

Report No.: SEWA2209000044RG03
 Rev.: 01
 Page: 1 of 119

TEST REPORT

Application No.: SEWA2209000044RG
Applicant: Gosuncn Technology Group Co., Ltd.
Address of Applicant: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
EUT Description: Automatic Database Diagnostic Monitor (LTE OBD II Hotspot)
Model No.: GD506
Trade Mark: GOSUNCN
FCC ID: 2APNR-GD506
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/09/20
Date of Test: 2022/10/07 to 2022/11/22
Date of Issue: 2022/12/12

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

Authorized Signature:

Panta Sun
 Wireless Laboratory Manager


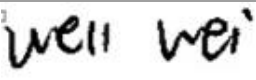


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/12		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 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Gosuncn Technology Group Co., Ltd.
Address of Applicant:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer:	Gosuncn Technology Group Co., Ltd.
Address of Manufacturer:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

3.2 Test Location

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

3.3 Test Facility

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

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

EUT Description:	Automatic Database Diagnostic Monitor (LTE OBD II Hotspot)	
Model No.:	GD506	
Trade Mark:	GOSUNCN	
Hardware Version:	GD506.H01	
Software Version:	MDM_GEN_GD506V1.1.1B01	
IMEI:	RF Conducted	862422060001123
	RSE & AC power line	861240040115974
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:	Internal Antenna	
Antenna Gain:	1.06dBi(Ant2)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	
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				
<p>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:</p>							
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	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Gosuncn Technology Group Co., Ltd.	VX6080
Remark: all above the information of table are provided by client.		

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 Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.06dBi(Ant2).*</p>	
<p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



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>		



<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>



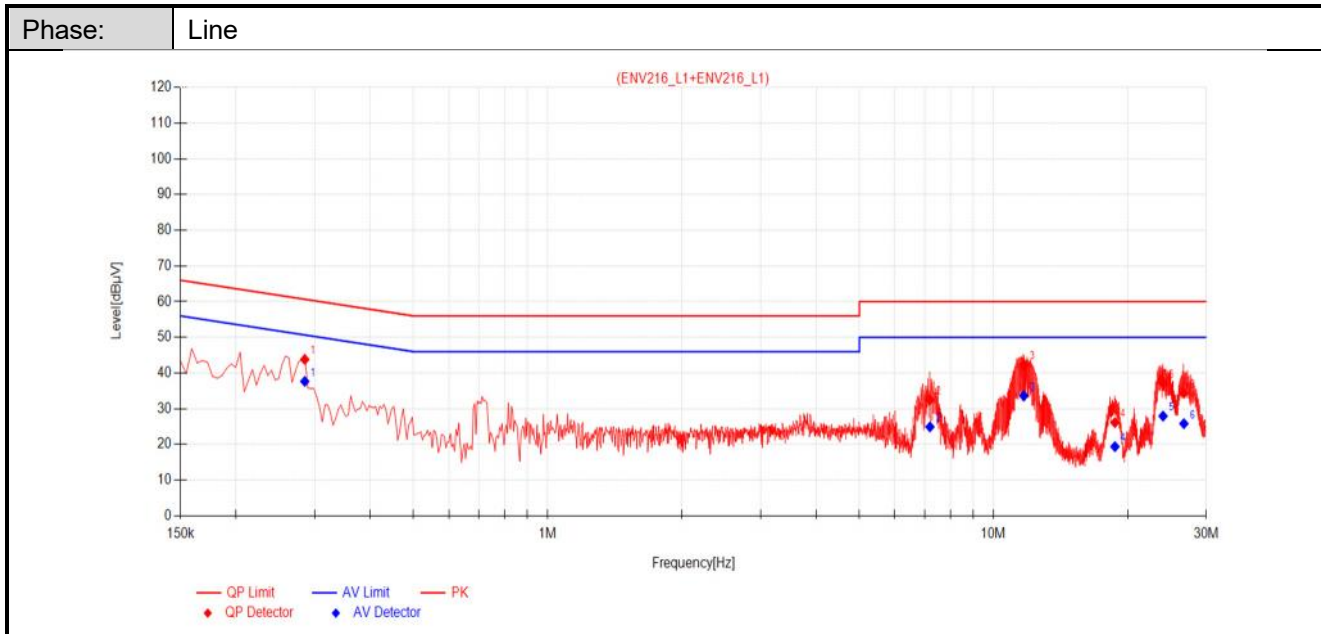
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Measurement Data

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.



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2850	10.67	33.14	43.81	60.67	16.86	26.99	37.66	50.67	13.01	PASS
2	7.2015	10.70	21.85	32.55	60.00	27.45	14.22	24.92	50.00	25.08	PASS
3	11.6925	10.59	31.77	42.36	60.00	17.64	23.02	33.61	50.00	16.39	PASS
4	18.7260	10.45	15.67	26.12	60.00	33.88	8.94	19.39	50.00	30.61	PASS
5	24.0135	10.31	26.79	37.10	60.00	22.90	17.64	27.95	50.00	22.05	PASS
6	26.7450	10.29	24.04	34.33	60.00	25.67	15.54	25.83	50.00	24.17	PASS

Remark:

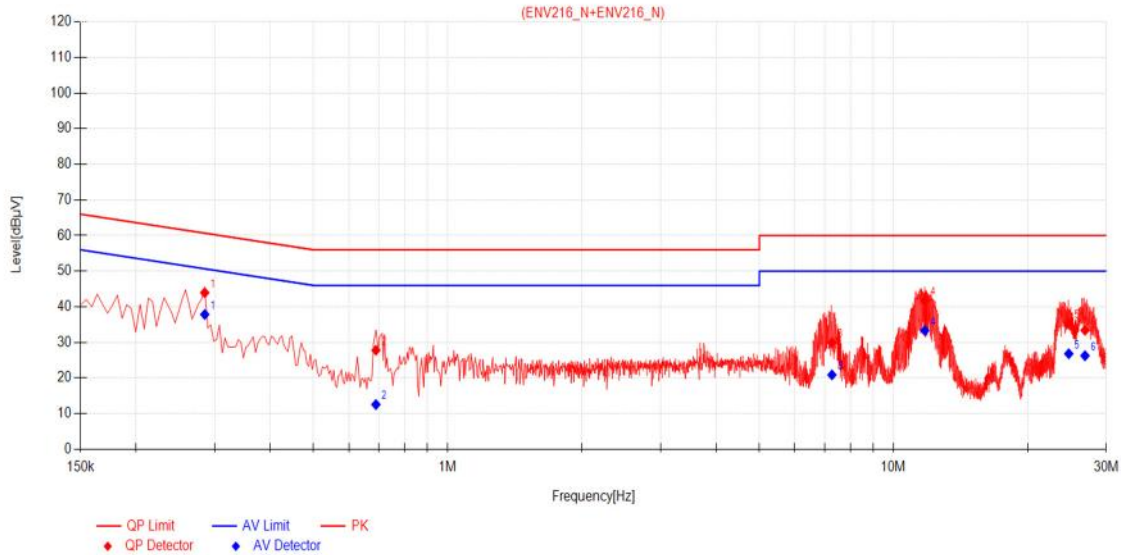
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2850	10.74	33.21	43.95	60.67	16.72	27.10	37.84	50.67	12.83	PASS
2	0.6900	10.80	17.01	27.81	56.00	28.19	1.76	12.56	46.00	33.44	PASS
3	7.2780	10.53	19.38	29.91	60.00	30.09	10.35	20.88	50.00	29.12	PASS
4	11.7555	10.65	31.07	41.72	60.00	18.28	22.68	33.33	50.00	16.67	PASS
5	24.7335	10.53	24.79	35.32	60.00	24.68	16.29	26.82	50.00	23.18	PASS
6	26.8935	10.49	22.90	33.39	60.00	26.61	15.77	26.26	50.00	23.74	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. 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 Section11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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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	



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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:

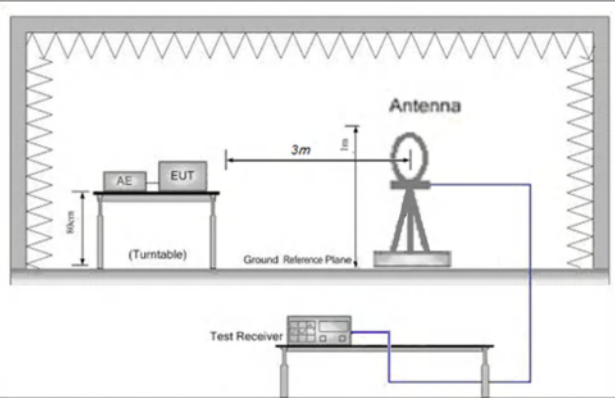


Figure 1. Below 30MHz

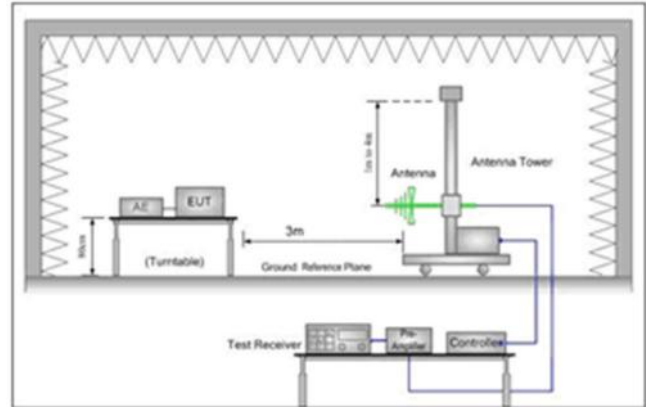


Figure 2. 30MHz to 1GHz

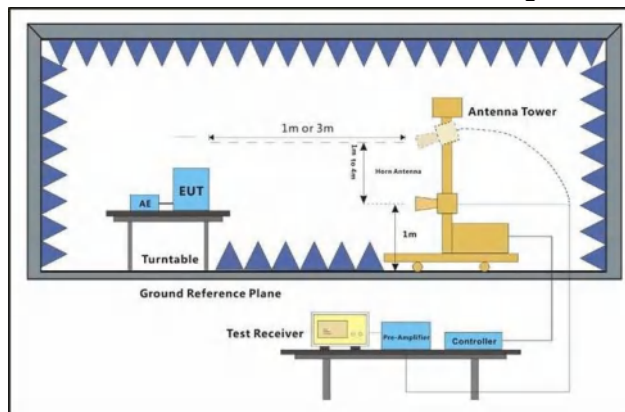


Figure 3. Above 1 GHz

Test Procedure:

- 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- 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 (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



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	<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 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
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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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:

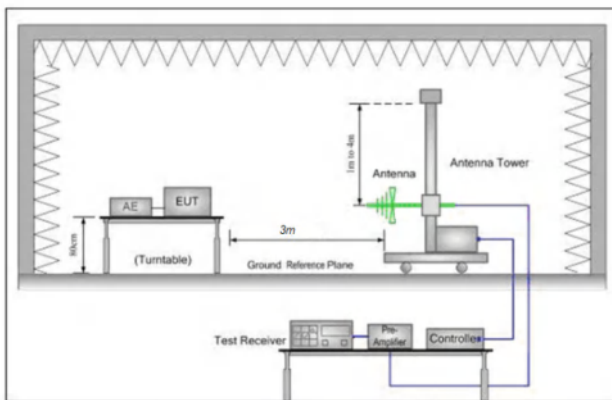


Figure 1. 30MHz to 1GHz

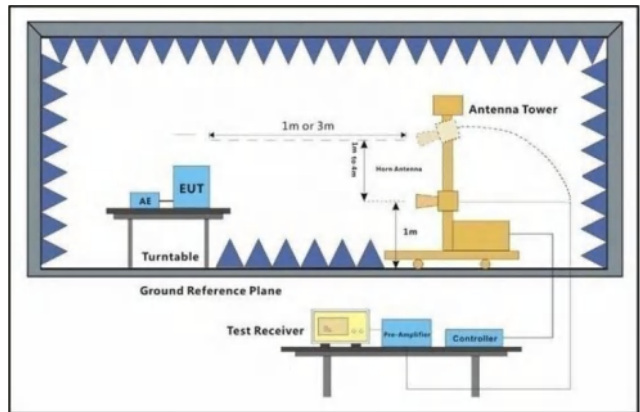


Figure 2. Above 1 GHz



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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 = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (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					
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	2022/02/16	2023/02/15
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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Signal Analyzer	ROHDE &SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE &SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
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	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
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	2407.92	2415.56	≥0.5	PASS
		2437	8.12	2432.92	2441.04	≥0.5	PASS
		2462	8.12	2457.92	2466.04	≥0.5	PASS
11g	Ant2	2412	14.56	2404.36	2418.92	≥0.5	PASS
		2437	15.24	2429.36	2444.60	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11n20SISO	Ant2	2412	15.20	2404.40	2419.60	≥0.5	PASS
		2437	15.16	2429.40	2444.56	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11n40SISO	Ant2	2422	34.00	2404.32	2438.32	≥0.5	PASS
		2437	31.92	2421.64	2453.56	≥0.5	PASS
		2452	35.28	2434.32	2469.60	≥0.5	PASS



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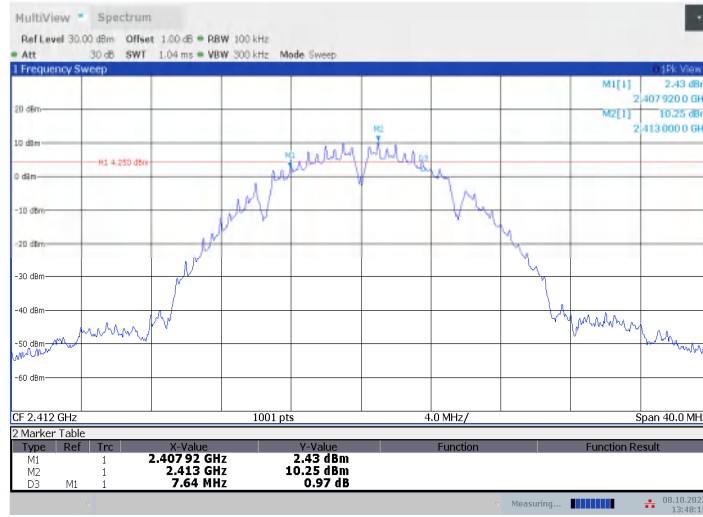
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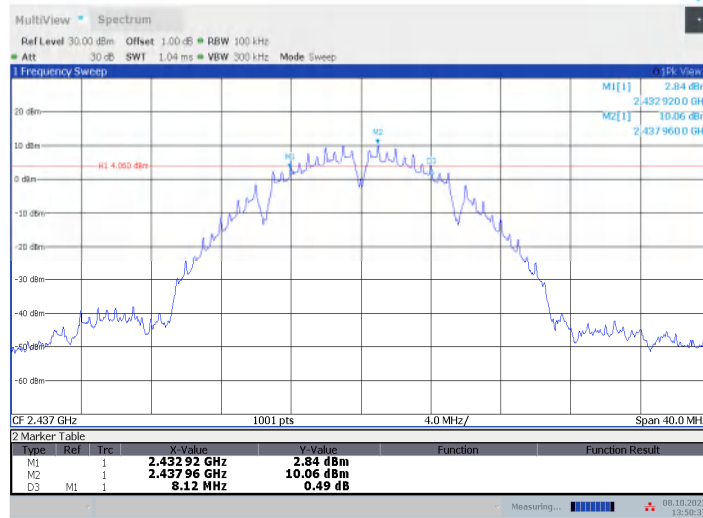
Test Graphs

11b Ant2 2412



13:48:16 08.10.2022

11b Ant2 2437



13:50:37 08.10.2022



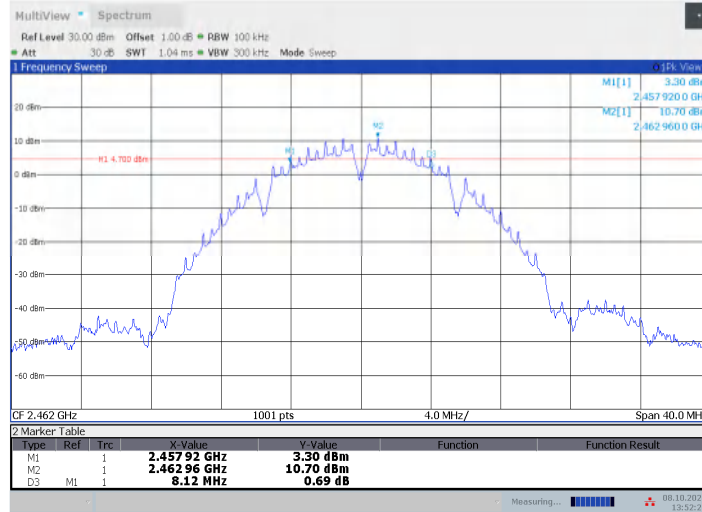
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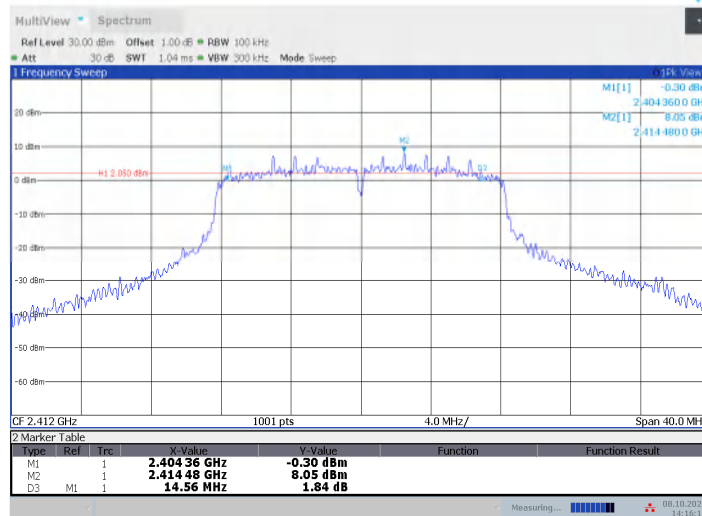
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11b Ant2 2462



13:52:27 08.10.2022

11g Ant2 2412



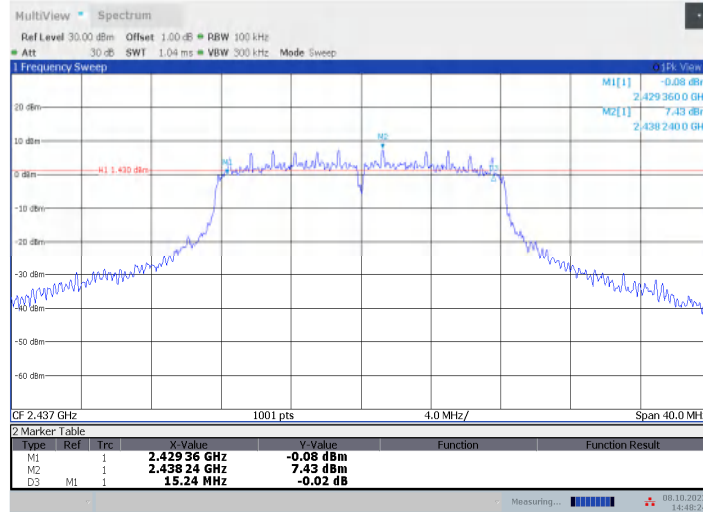
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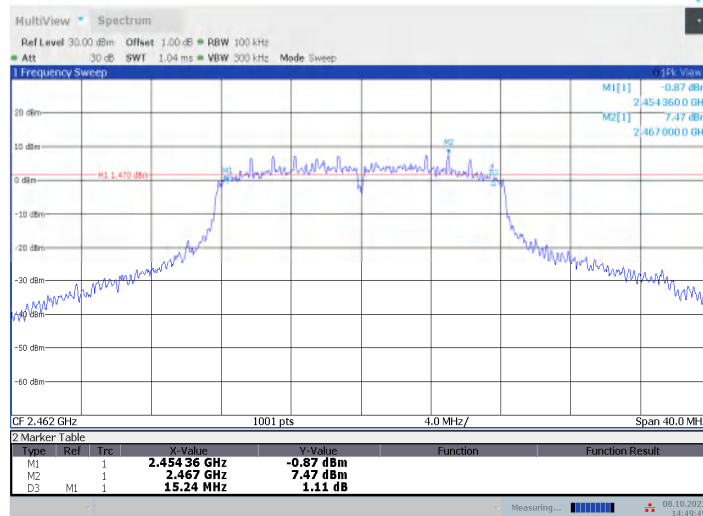
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11g Ant2 2437



14:48:24 08.10.2022

11g Ant2 2462



14:49:49 08.10.2022

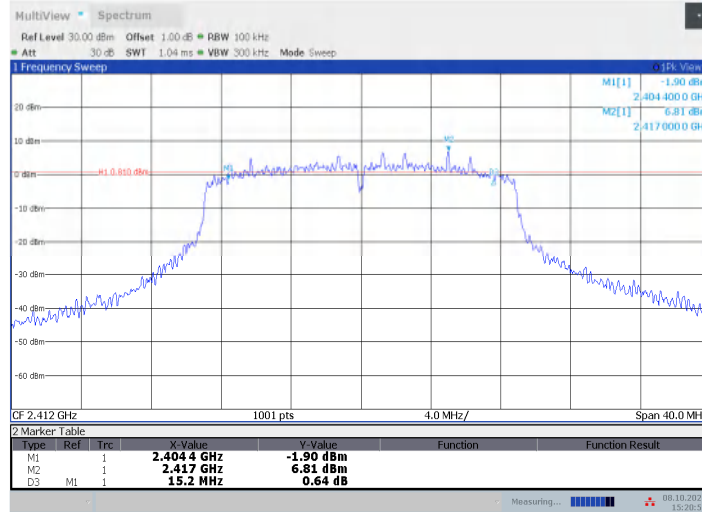


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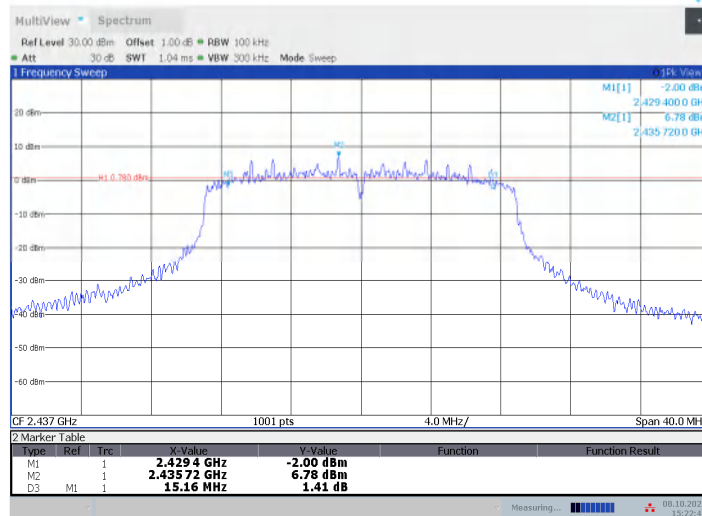
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11n20SISO_Ant2_2412



15:20:59 08.10.2022

11n20SISO_Ant2_2437

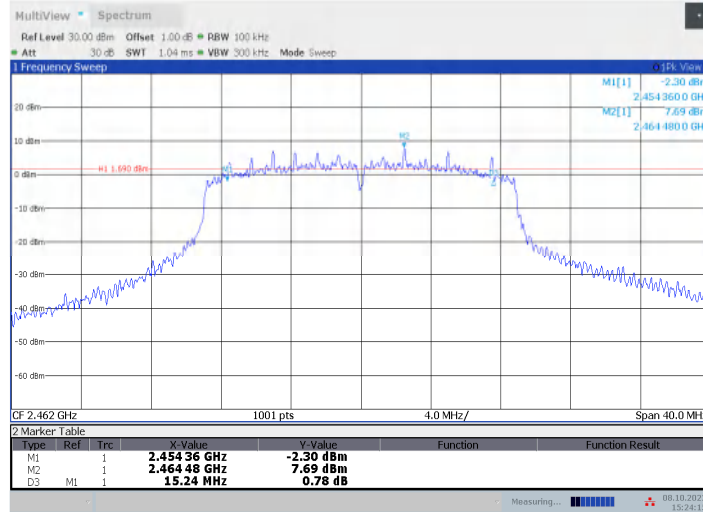


15:22:42 08.10.2022



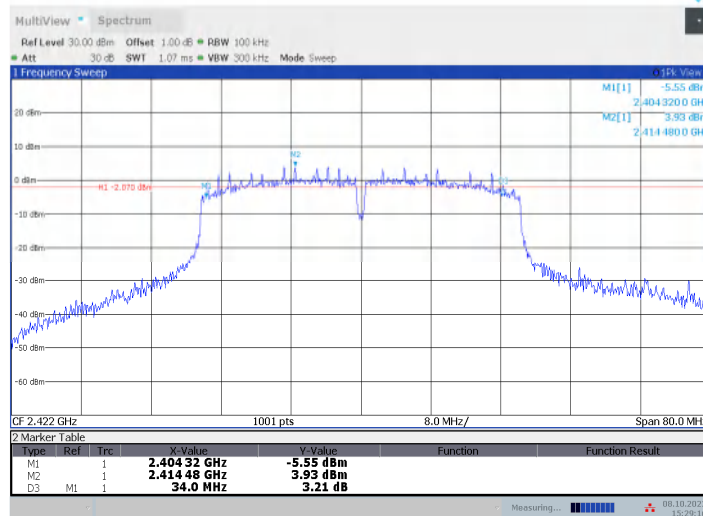
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11n20SISO Ant2 2462



15:24:15 08.10.2022

11n40SISO Ant2 2422



15:29:16 08.10.2022

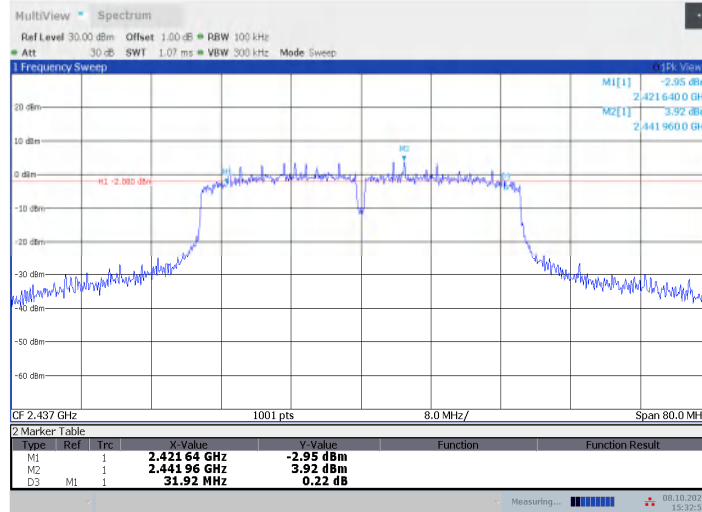


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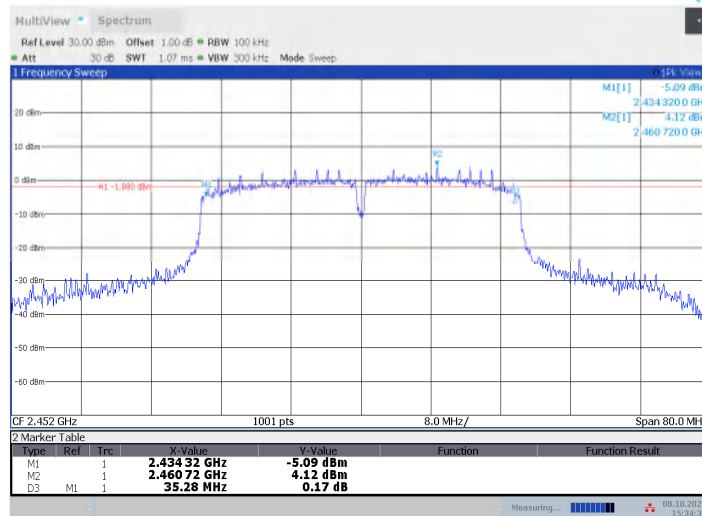
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11n40SISO Ant2_2437



15:32:59 08.10.2022

11n40SISO Ant2_2452



15:34:37 08.10.2022



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Occupied Channel Bandwidth Test Result

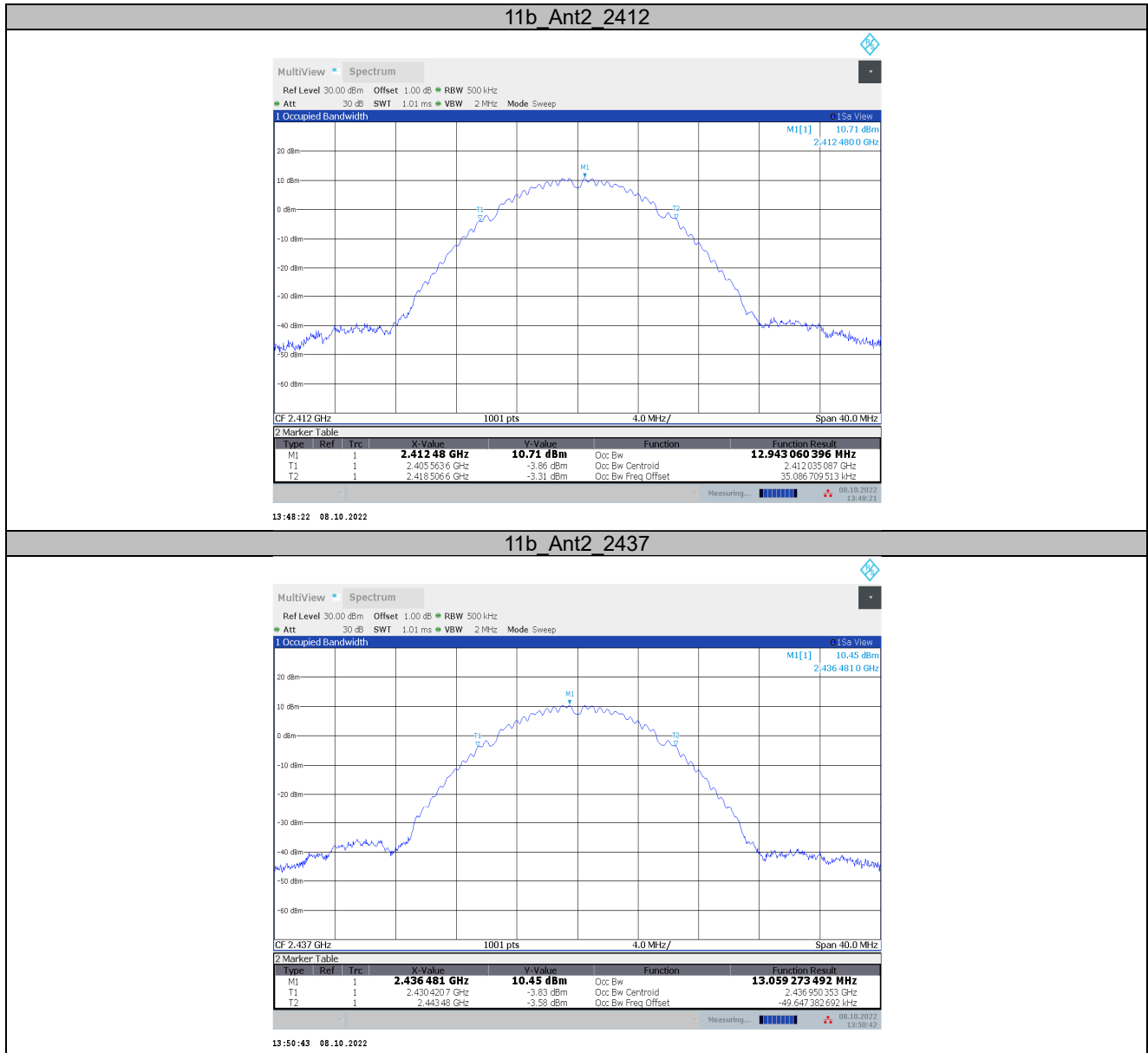
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant2	2412	12.943	2405.564	2418.507	Reporting only
		2437	13.059	2430.421	2443.480	
		2462	13.015	2455.496	2468.510	
11g	Ant2	2412	16.424	2403.784	2420.208	
		2437	16.453	2428.742	2445.194	
		2462	16.463	2453.757	2470.220	
11n20SISO	Ant2	2412	17.494	2403.263	2420.757	
		2437	17.574	2428.160	2445.734	
		2462	17.507	2453.223	2470.730	
11n40SISO	Ant2	2422	36.002	2404.025	2440.027	
		2437	36.188	2418.922	2455.110	
		2452	36.079	2434.044	2470.123	



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Test Graphs



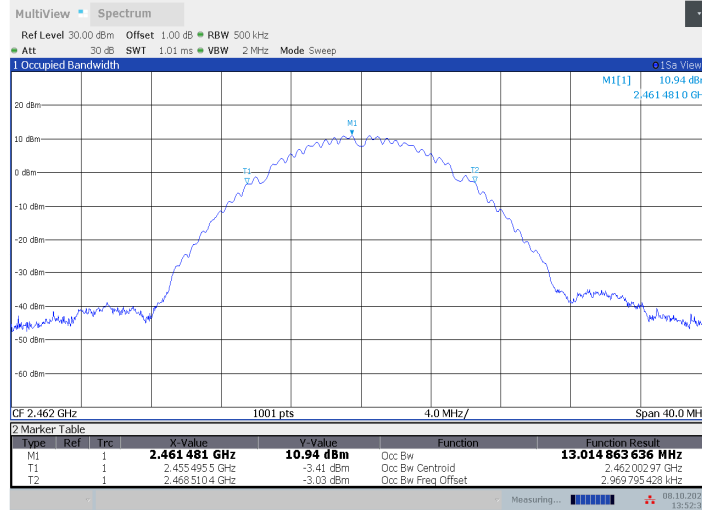
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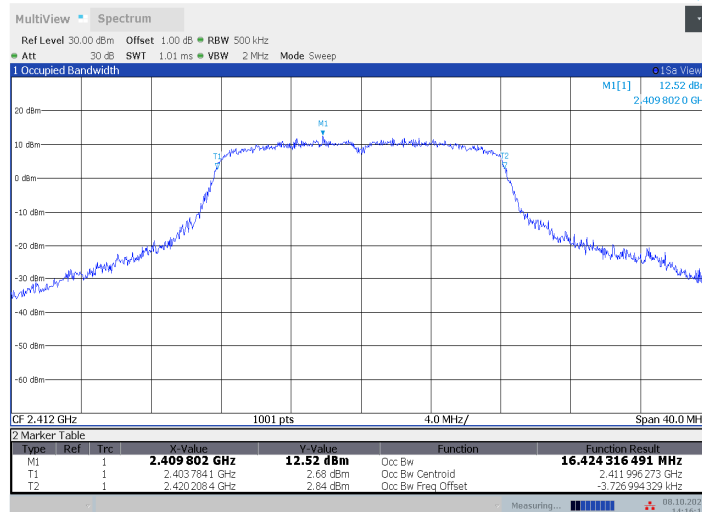
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11b Ant2 2462



13:52:32 08.10.2022

11g Ant2 2412



14:16:17 08.10.2022



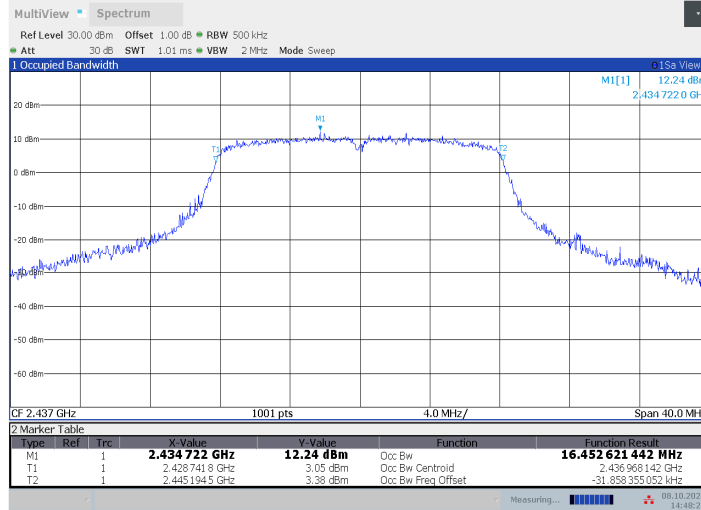
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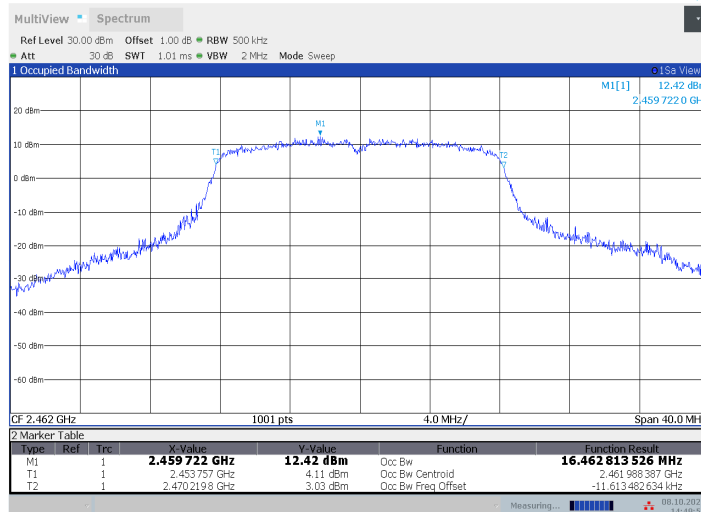
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11g Ant2 2437



14:48:29 08.10.2022

11g Ant2 2462



14:49:54 08.10.2022

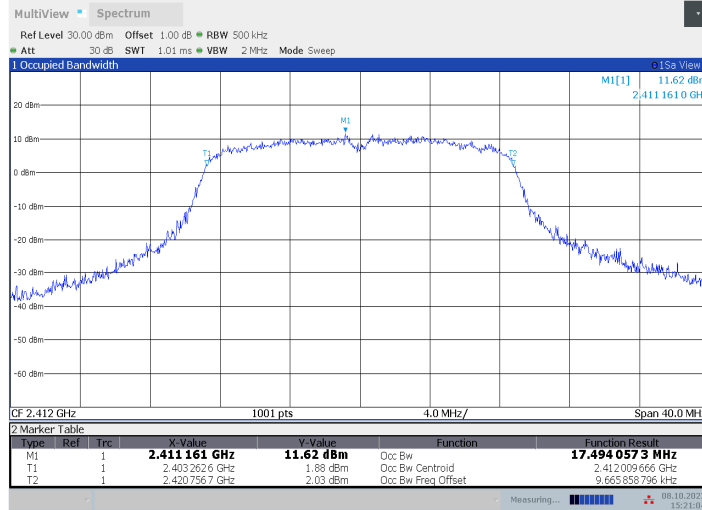


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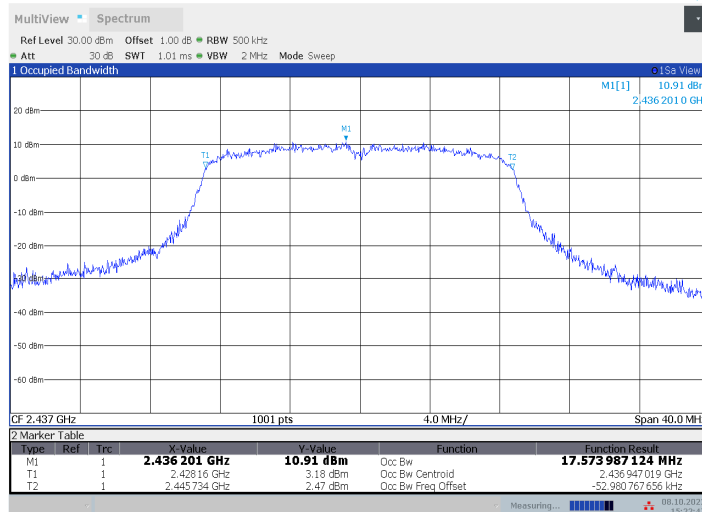
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11n20SISO Ant2 2412



15:21:04 08.10.2022

11n20SISO Ant2 2437



15:22:47 08.10.2022

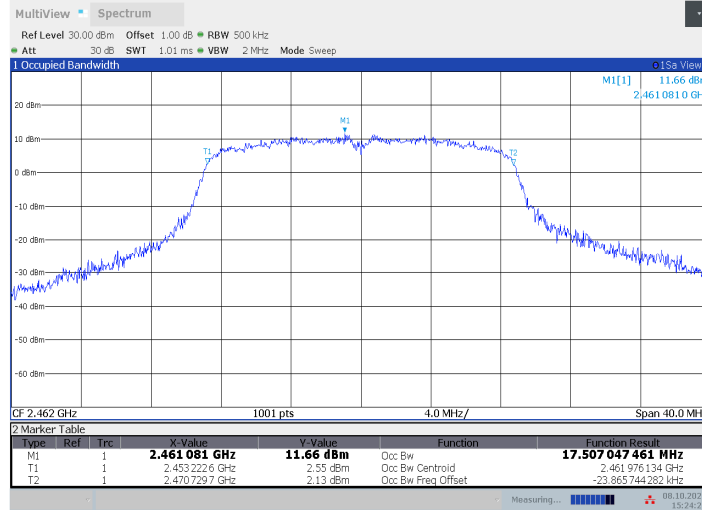


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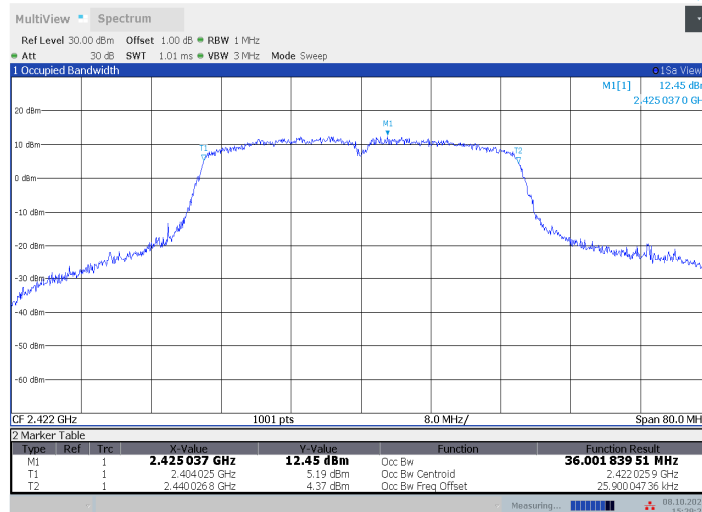
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11n20SISO Ant2 2462



15:24:20 08.10.2022

11n40SISO Ant2 2422



15:29:22 08.10.2022



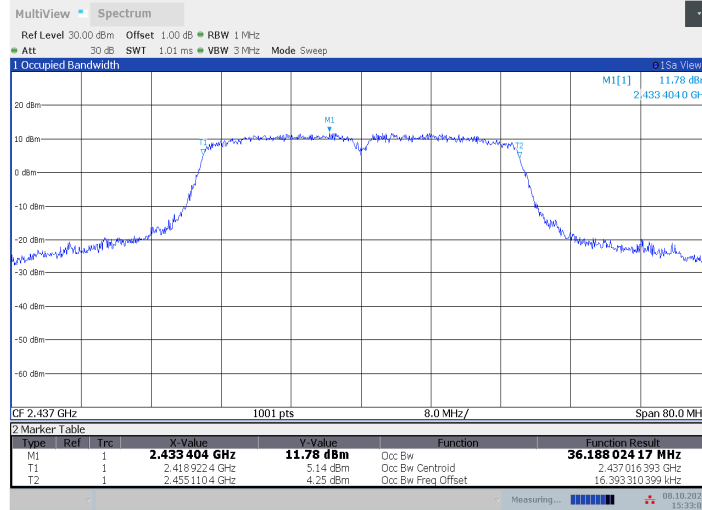
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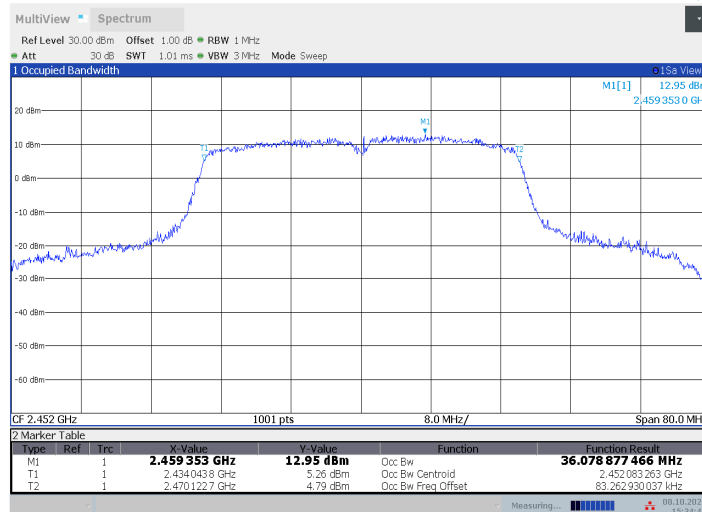
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11n40SISO Ant2 2437



15:33:04 08.10.2022

11n40SISO Ant2 2452



15:34:43 08.10.2022



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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant2	2412	20.54	≤30.00	PASS
		2437	20.12	≤30.00	PASS
		2462	20.35	≤30.00	PASS
11g	Ant2	2412	22.55	≤30.00	PASS
		2437	22.25	≤30.00	PASS
		2462	22.39	≤30.00	PASS
11n20SISO	Ant2	2412	21.15	≤30.00	PASS
		2437	20.85	≤30.00	PASS
		2462	21.03	≤30.00	PASS
11n40SISO	Ant2	2422	22.06	≤30.00	PASS
		2437	21.84	≤30.00	PASS
		2452	21.98	≤30.00	PASS



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Maximum power spectral density Test Result

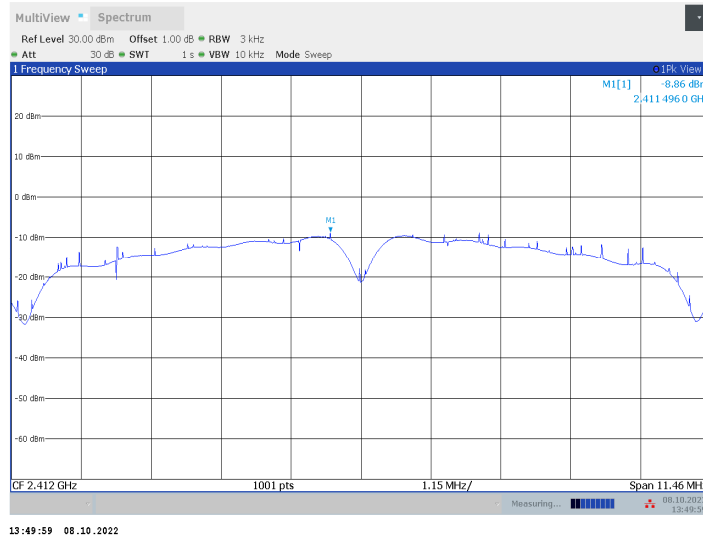
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant2	2412	-8.86	≤8.00	PASS
		2437	-7.98	≤8.00	PASS
		2462	-7.86	≤8.00	PASS
11g	Ant2	2412	-8.62	≤8.00	PASS
		2437	-9.15	≤8.00	PASS
		2462	-7.88	≤8.00	PASS
11n20SISO	Ant2	2412	-8.12	≤8.00	PASS
		2437	-9.22	≤8.00	PASS
		2462	-9.04	≤8.00	PASS
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		2437	-12.12	≤8.00	PASS
		2452	-9.48	≤8.00	PASS



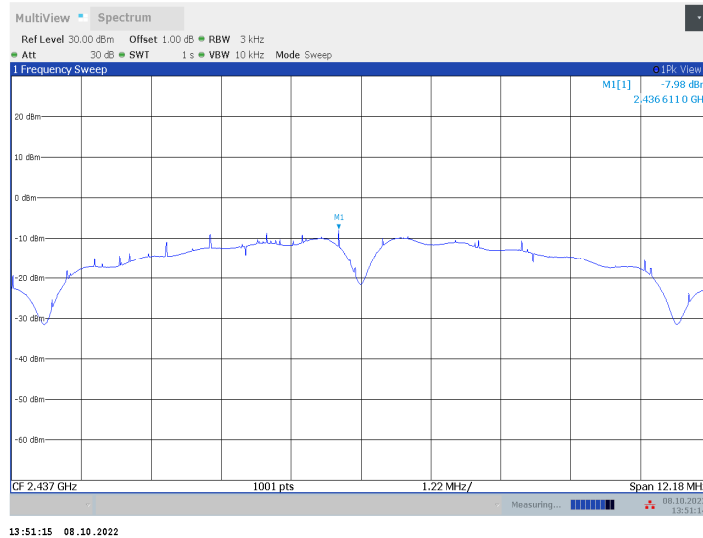
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Test Graphs

11b_Ant2_2412

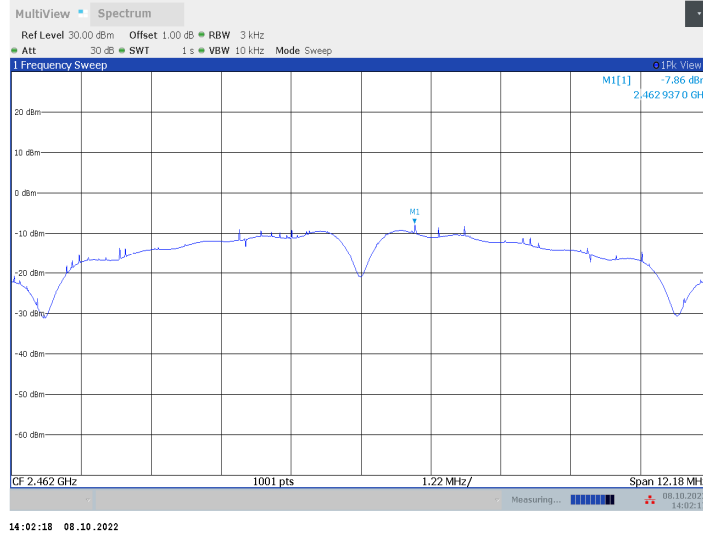


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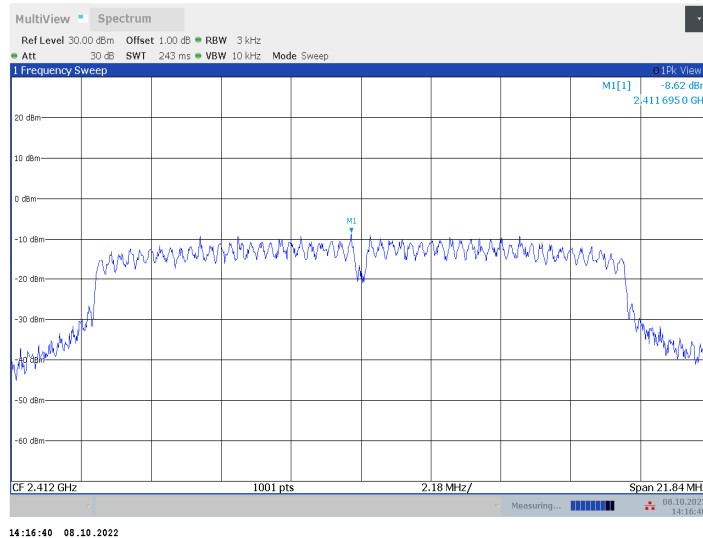


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11b Ant2 2462



11g Ant2 2412



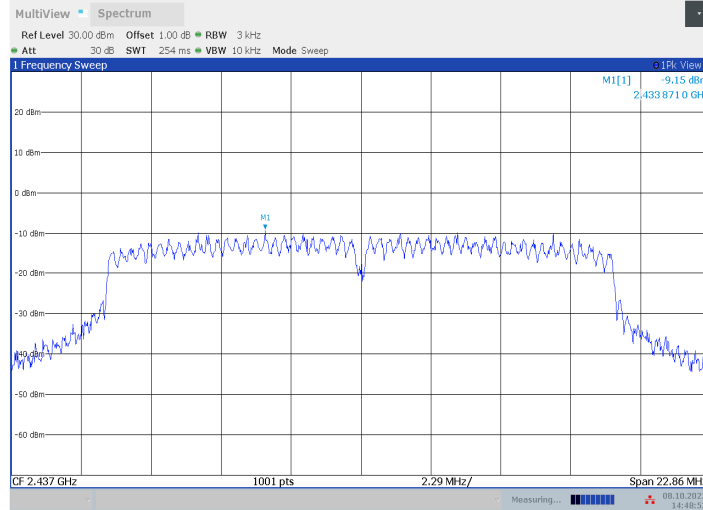
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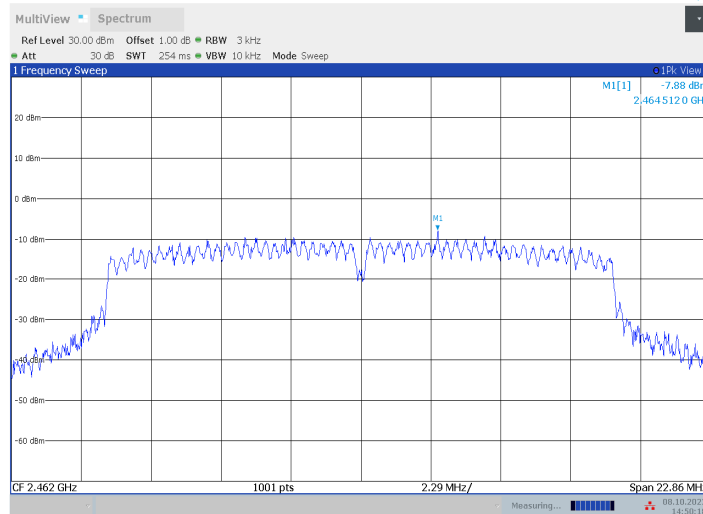
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11g Ant2 2437



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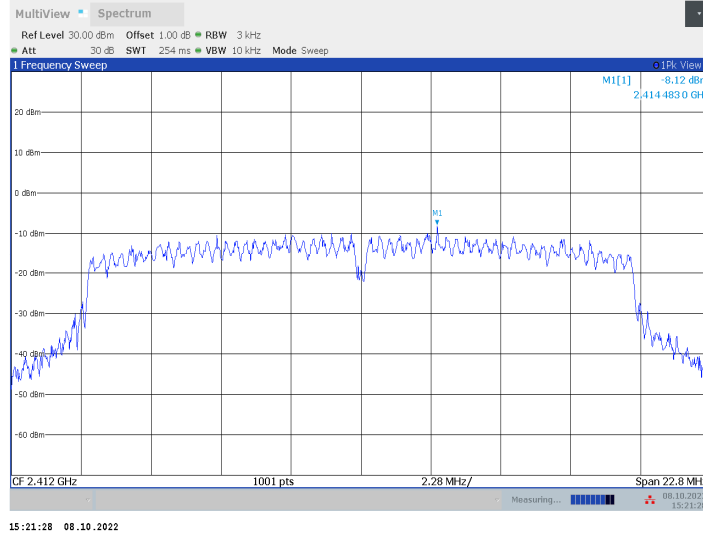


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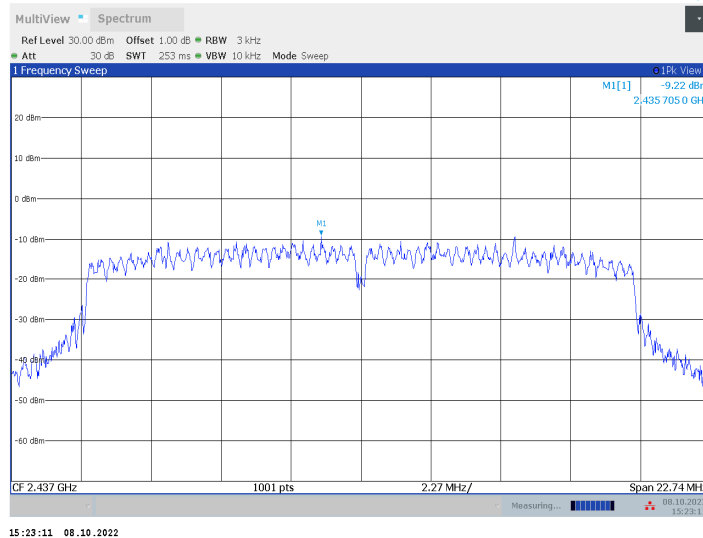


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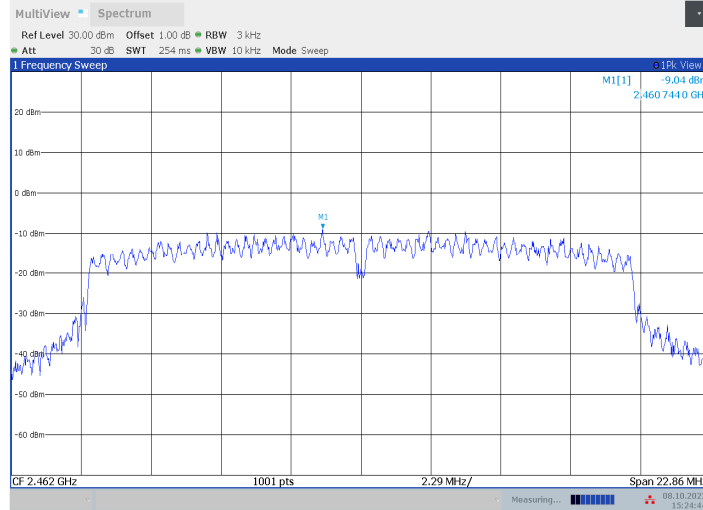
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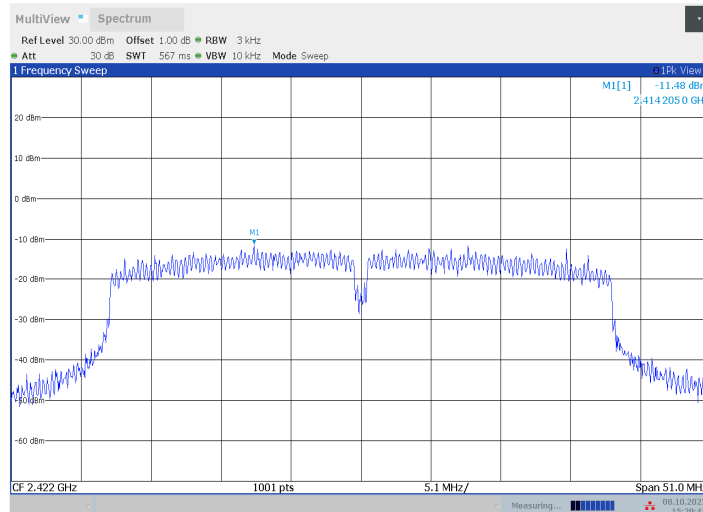
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11n40SISO Ant2 2422



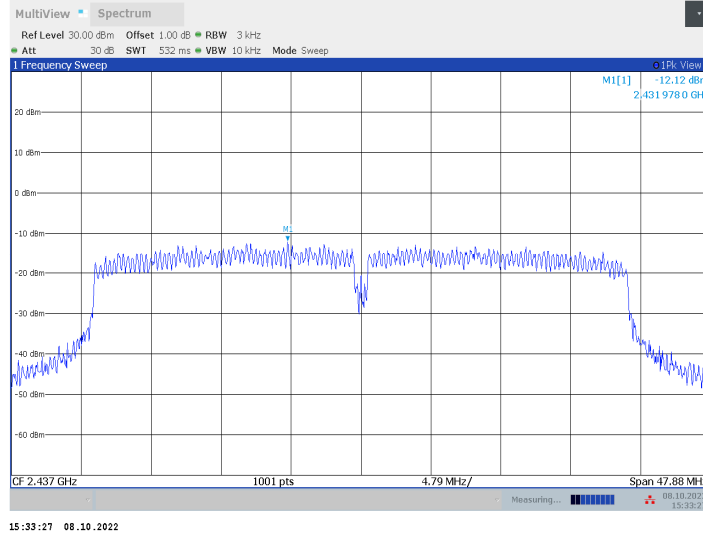
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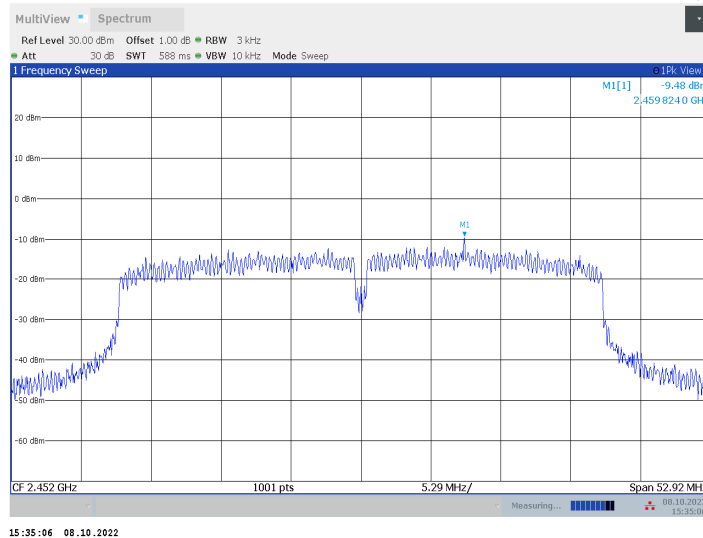
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11n40SISO Ant2 2437



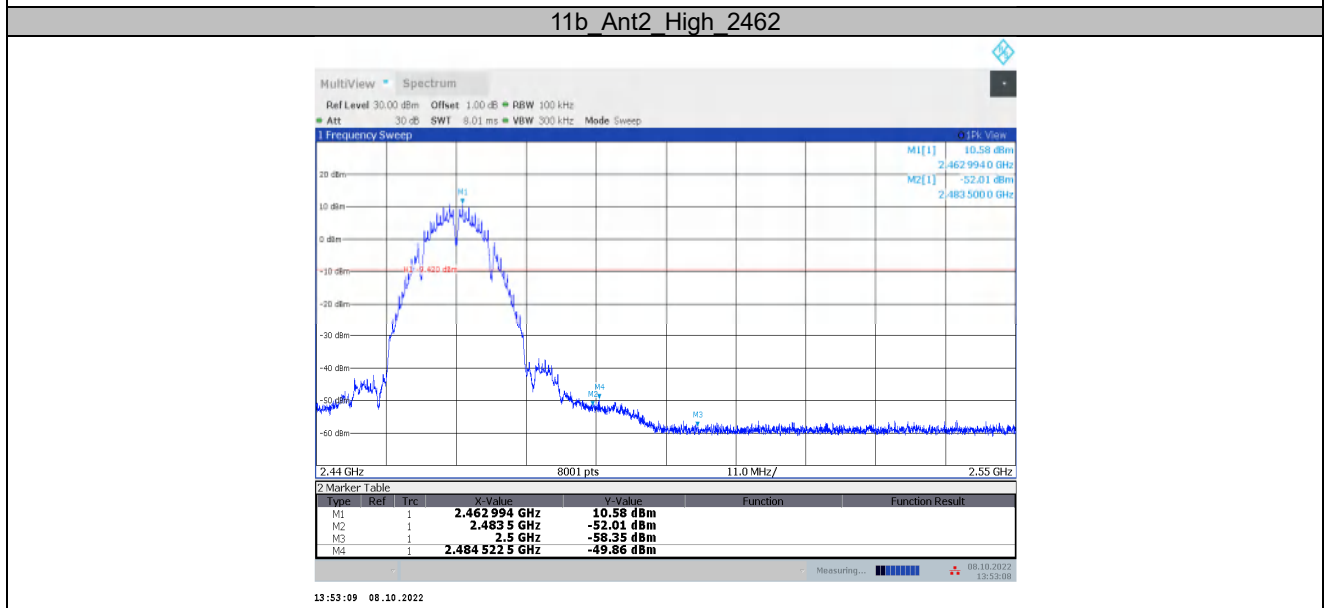
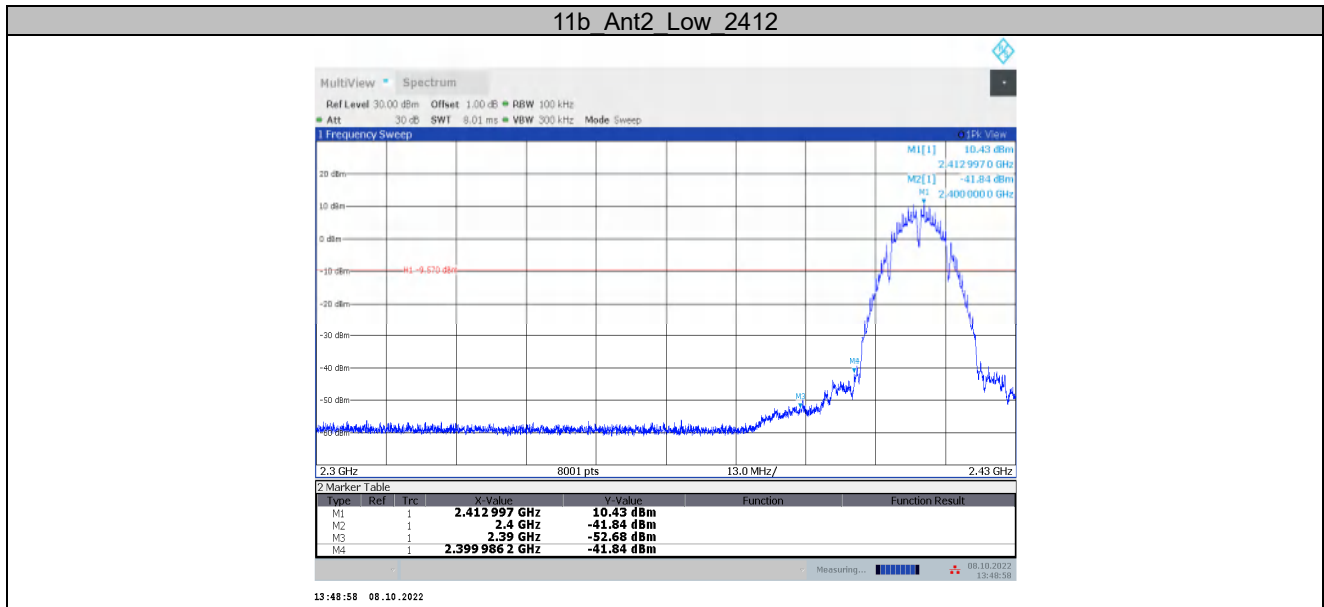
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Band edge measurements Test Graphs



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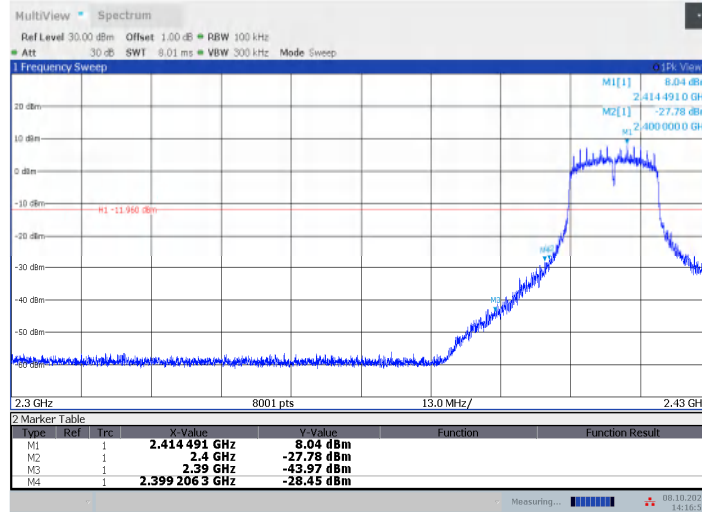
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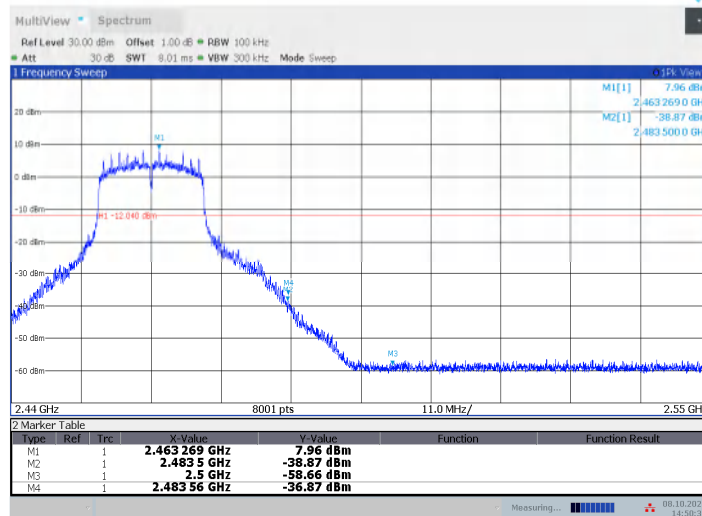
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11g Ant2 Low 2412



14:16:53 08.10.2022

11g Ant2 High 2462



14:50:31 08.10.2022



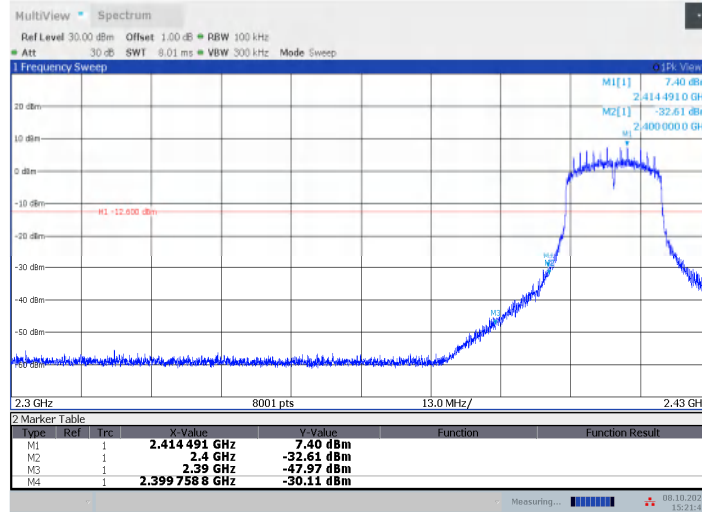
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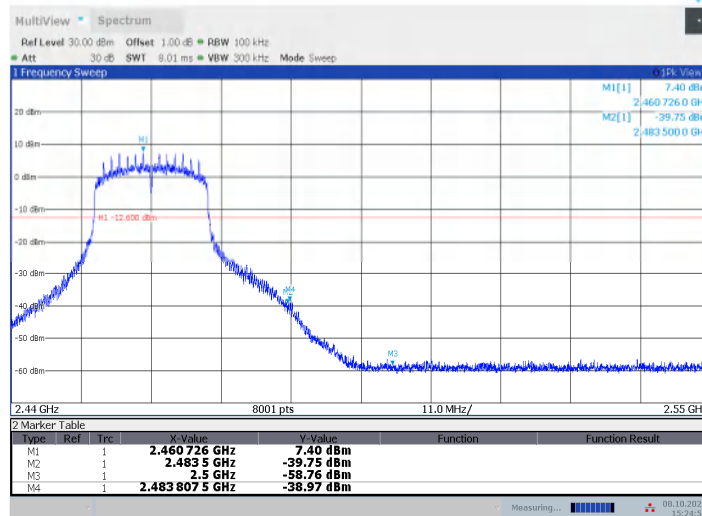
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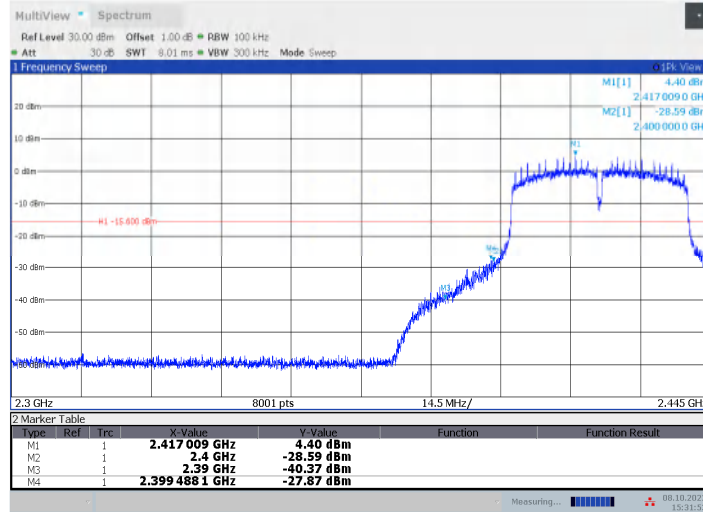
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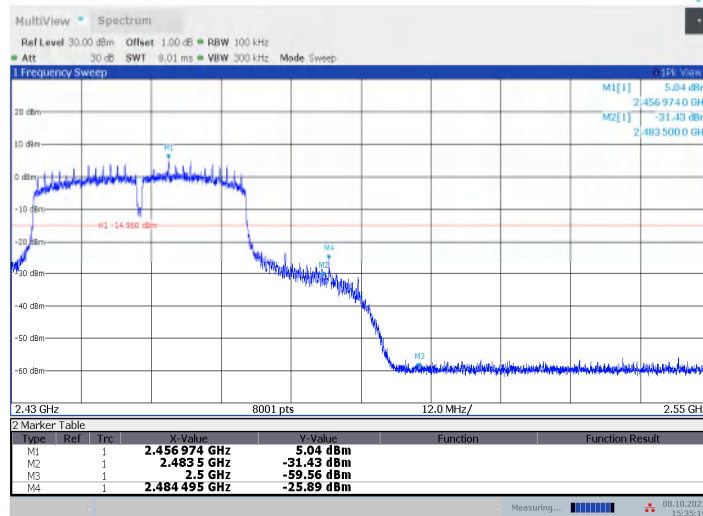
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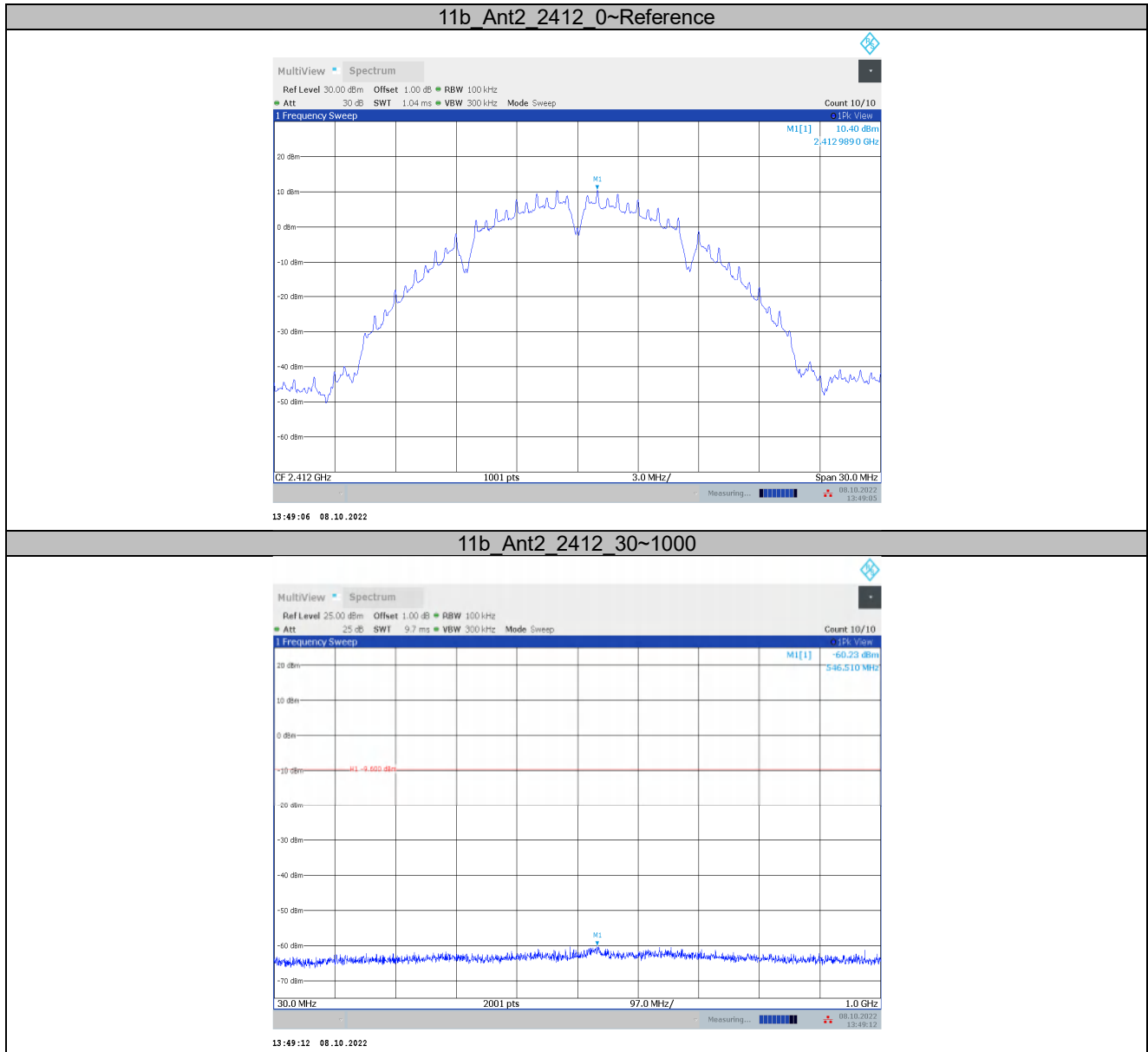
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Conducted Spurious Emission Test Graphs



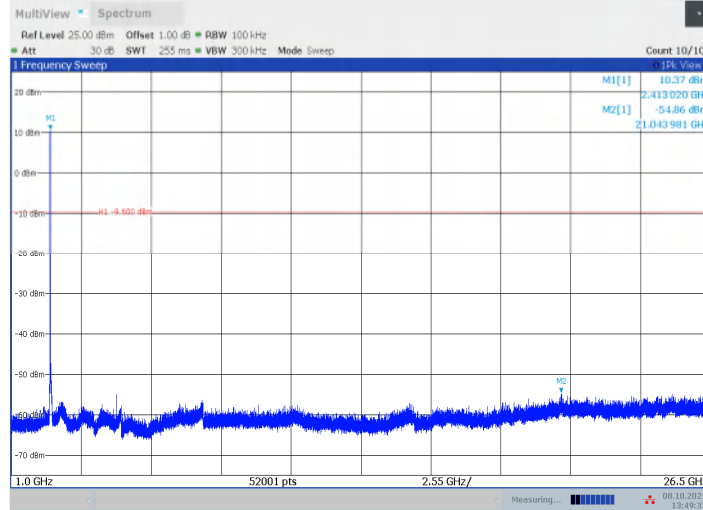
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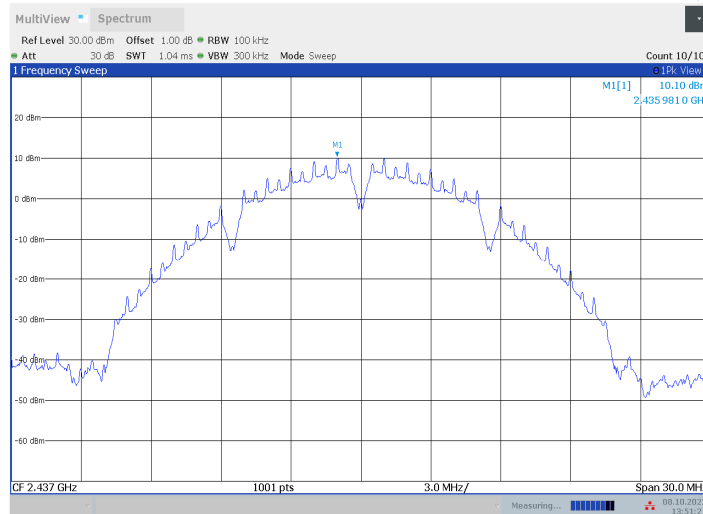
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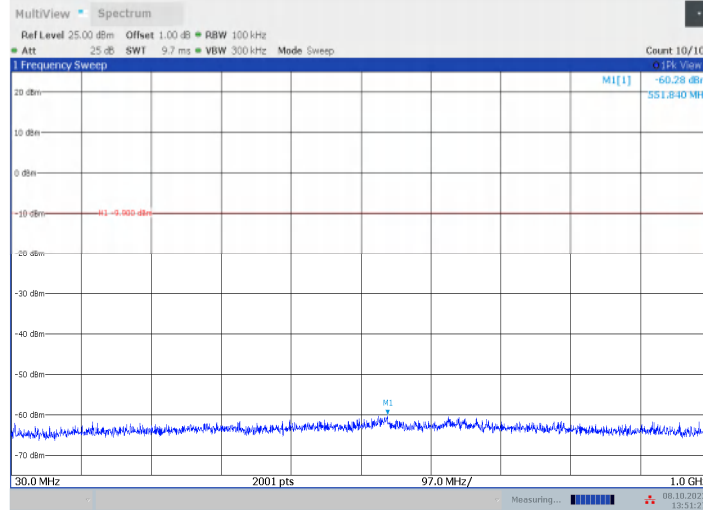


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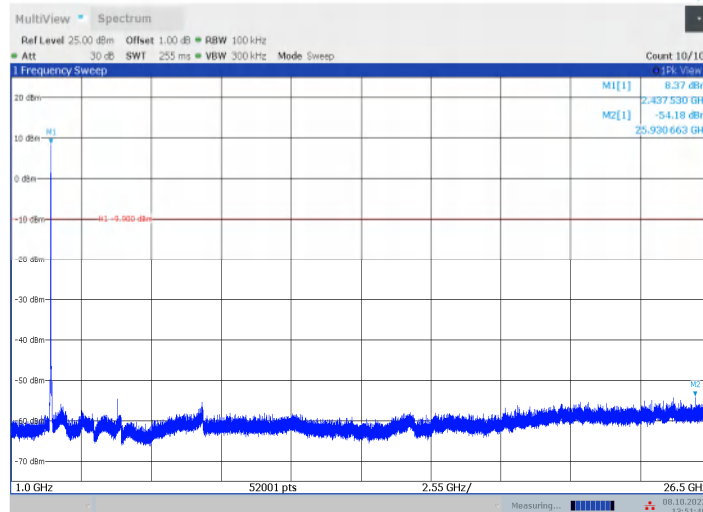


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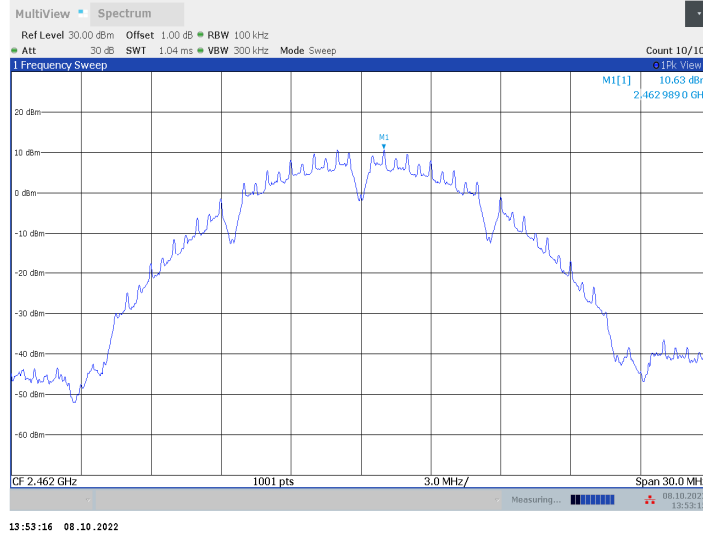


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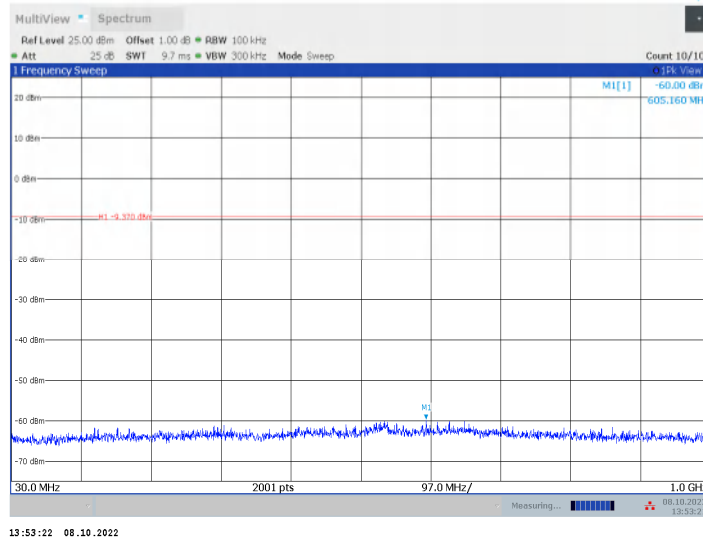
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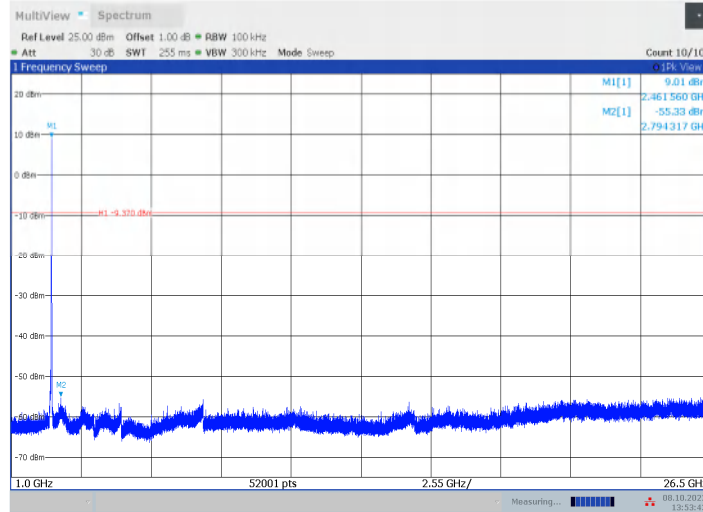


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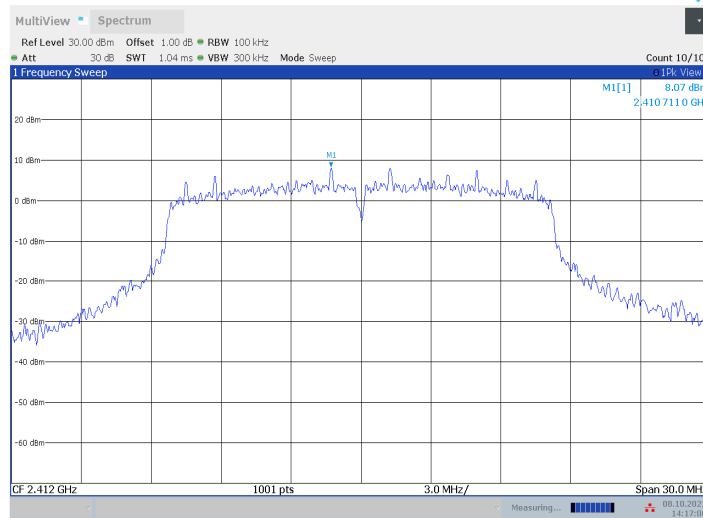
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11g Ant2 2412 0~Reference



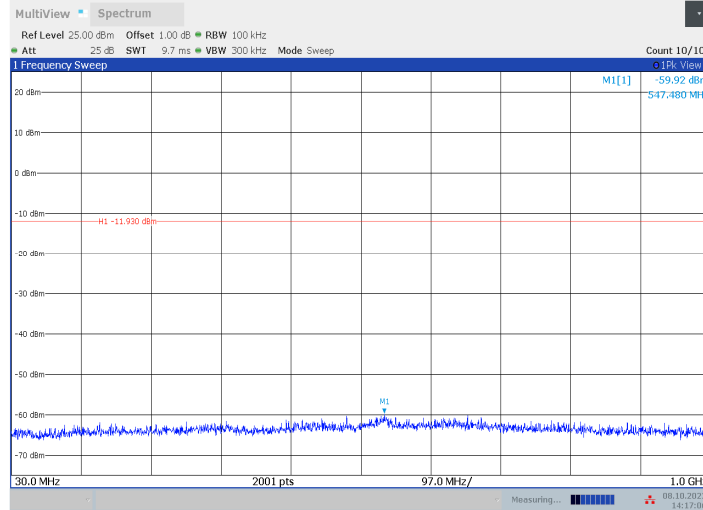
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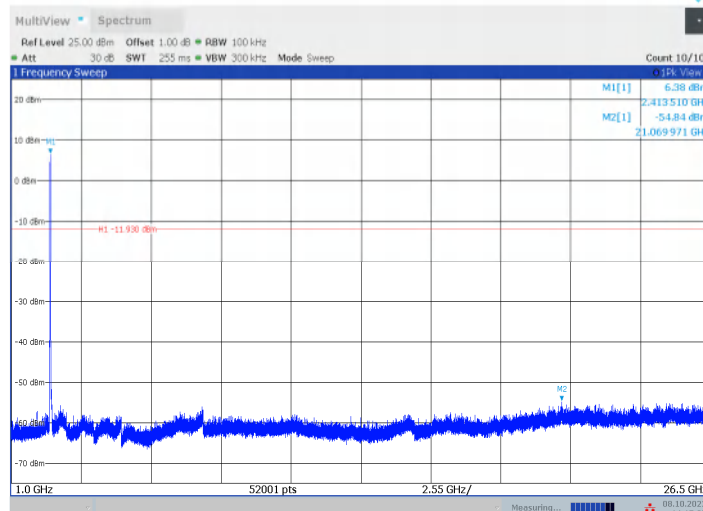
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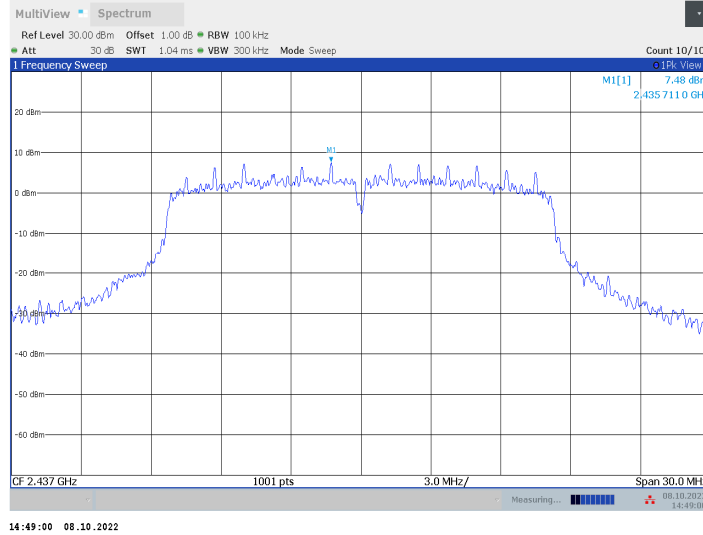
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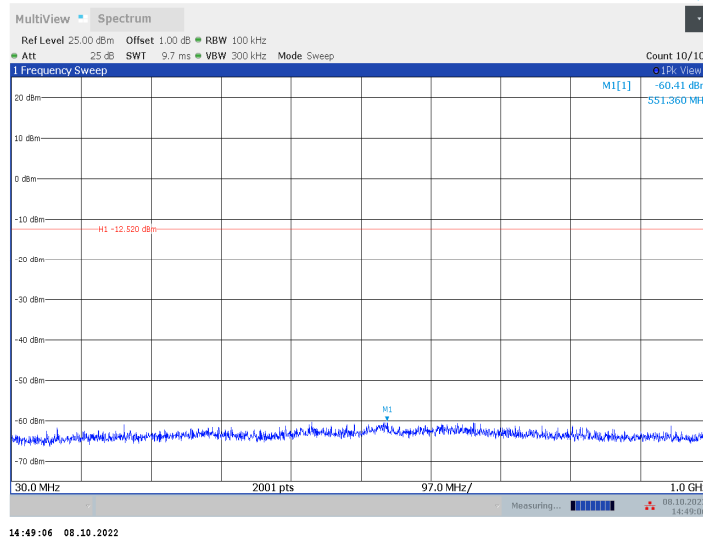
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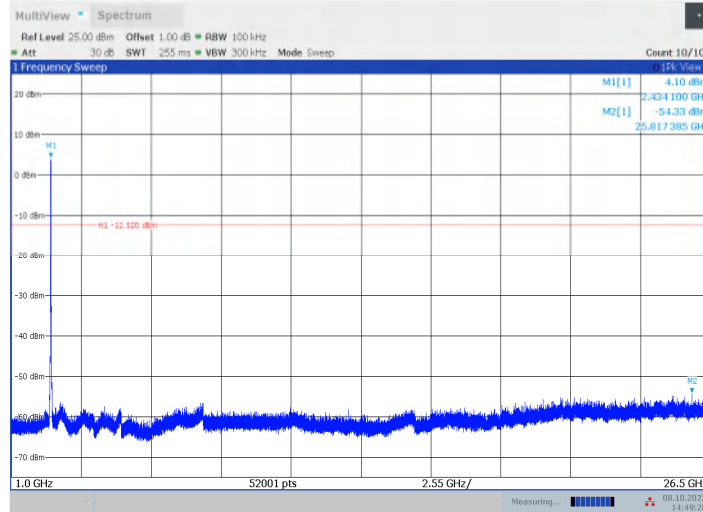


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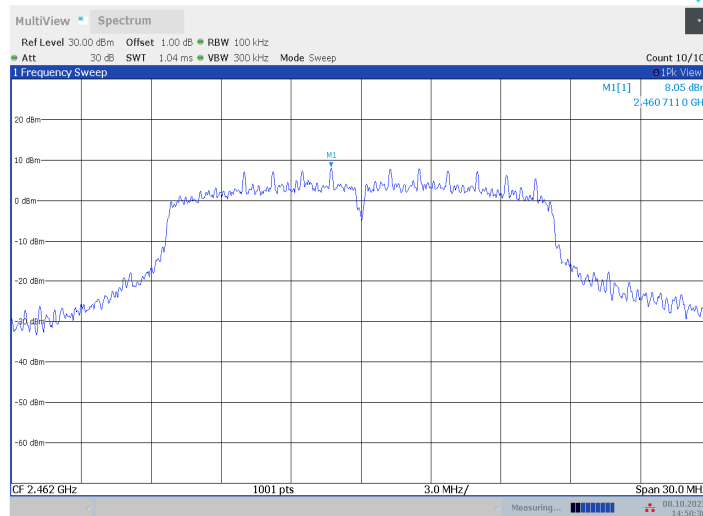
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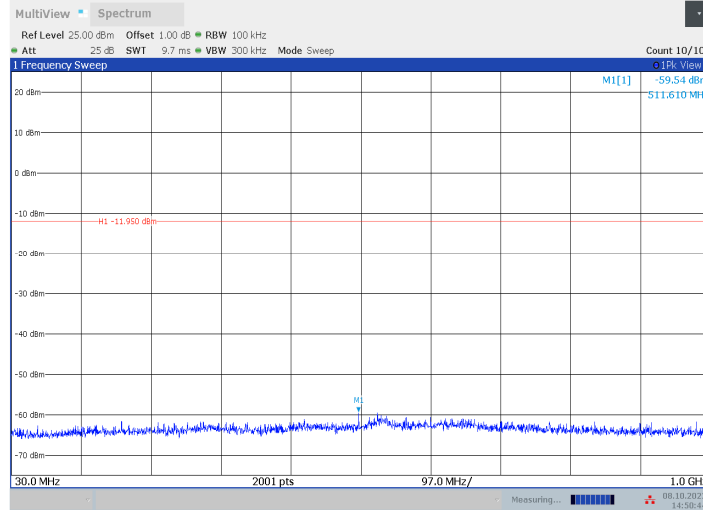


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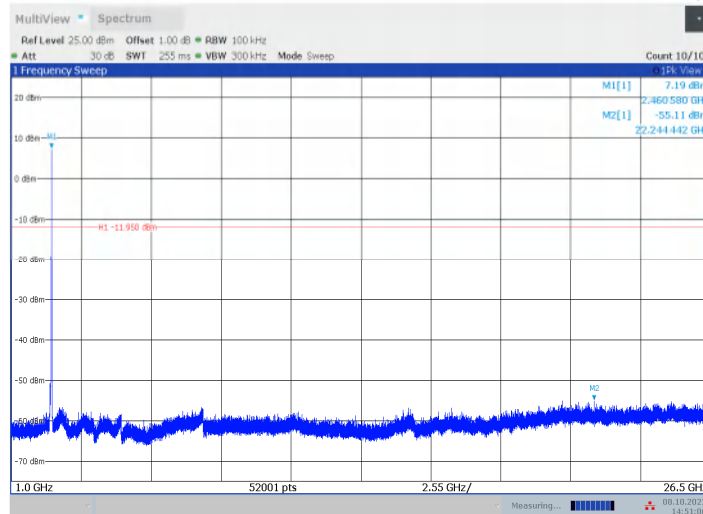
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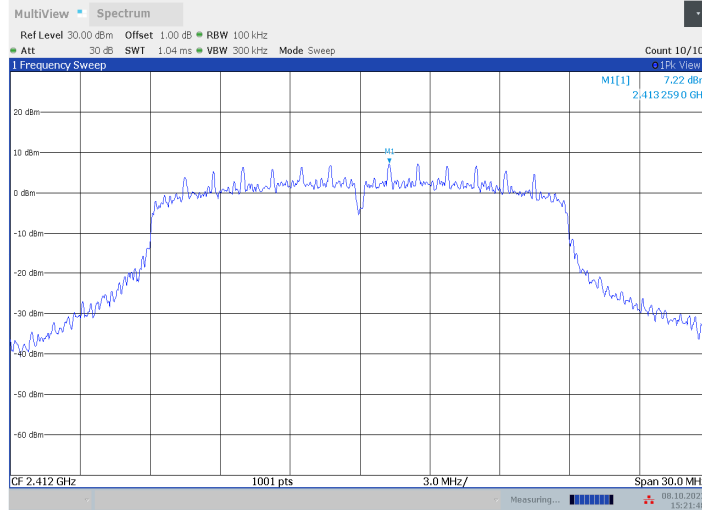
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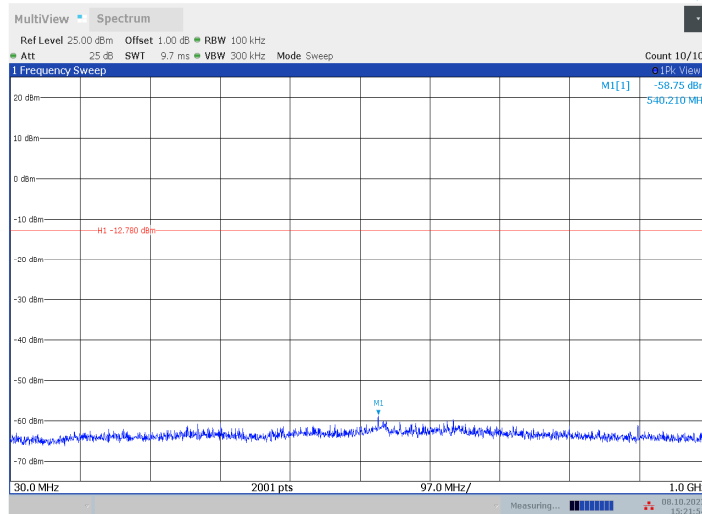
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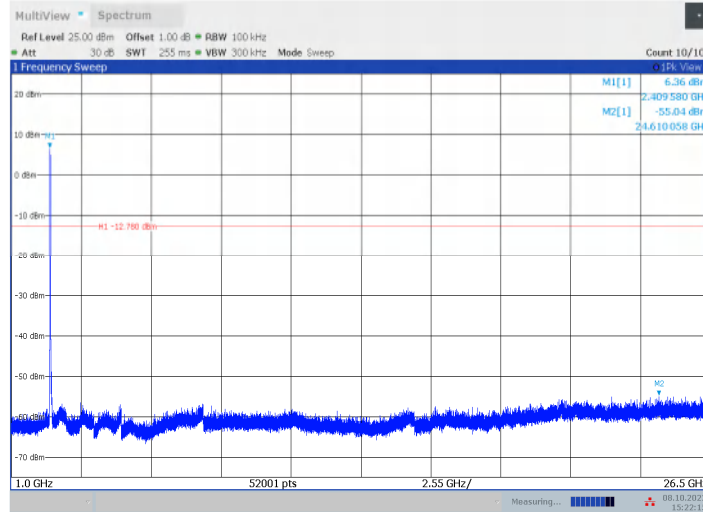
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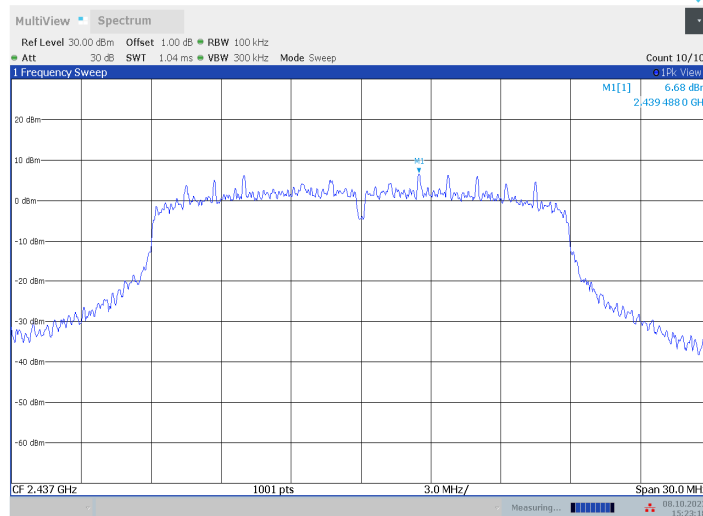
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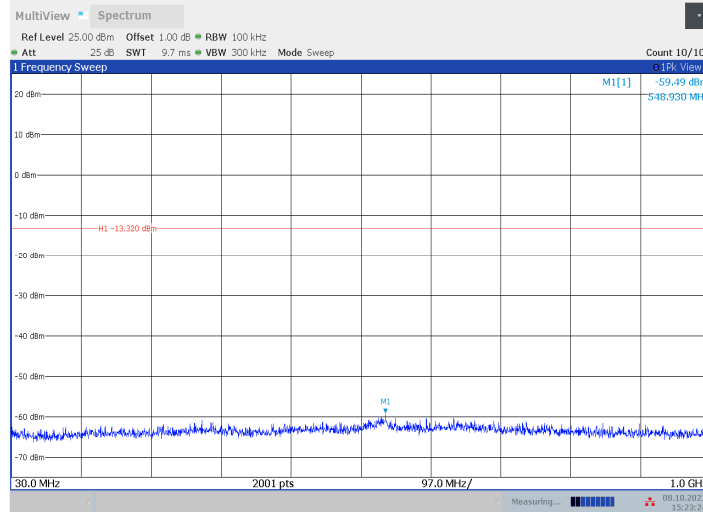
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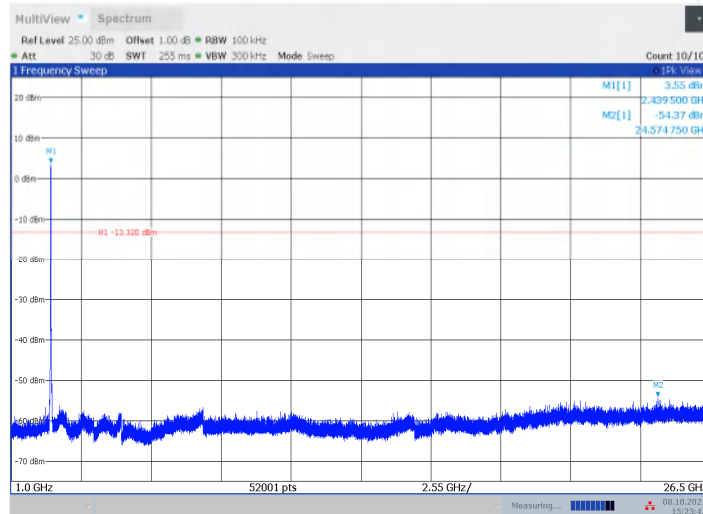
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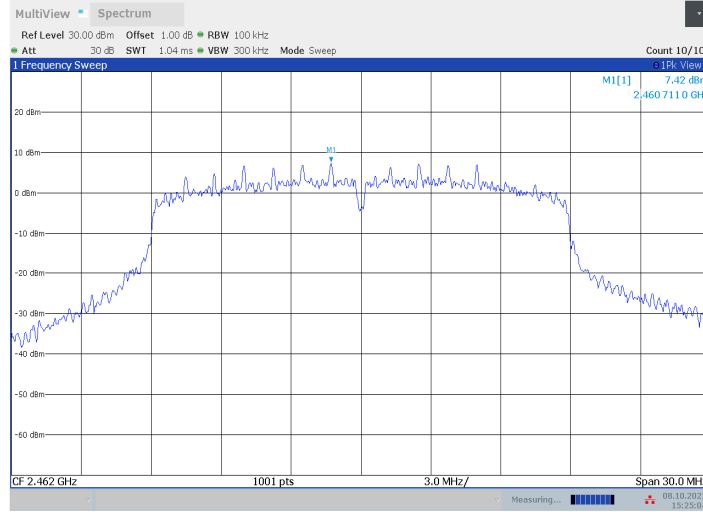


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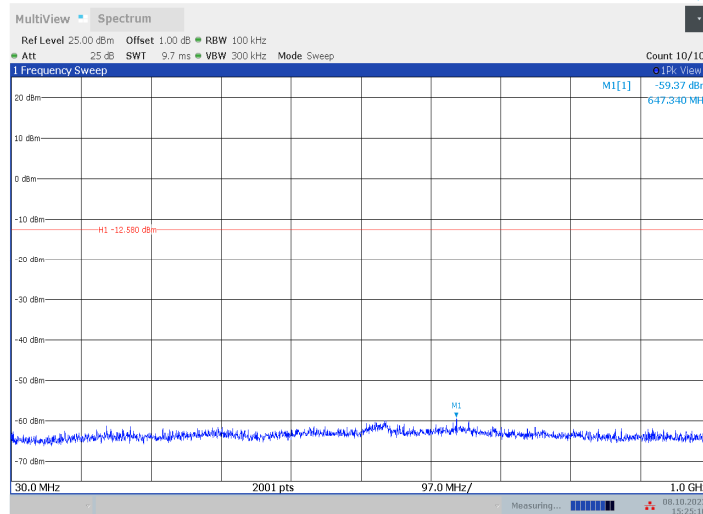
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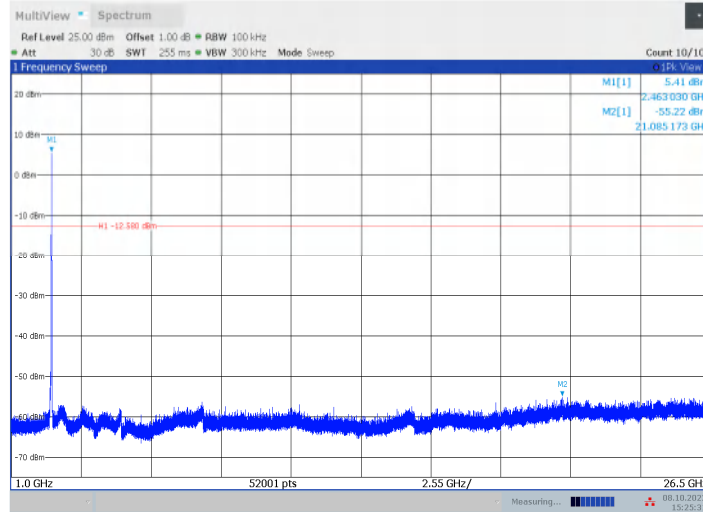
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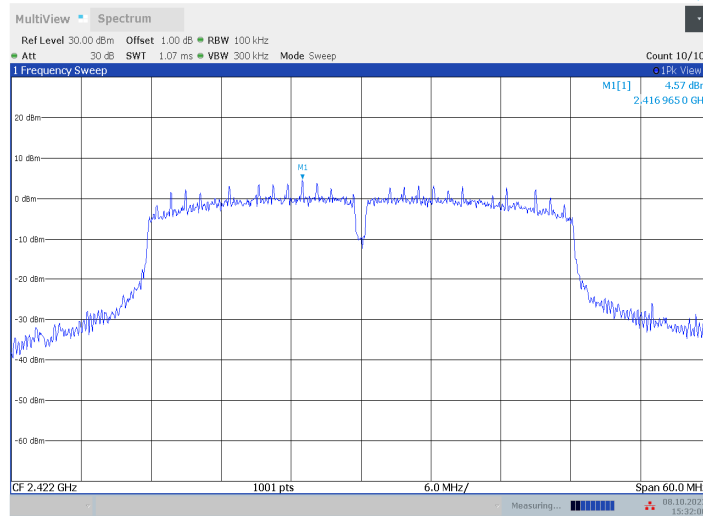
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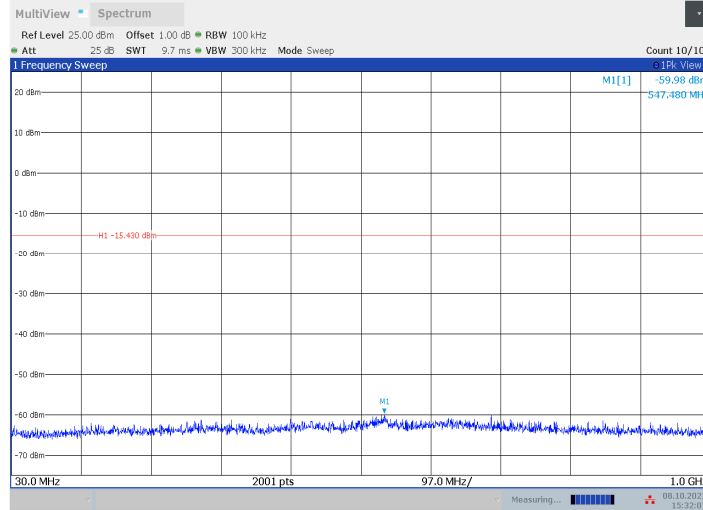
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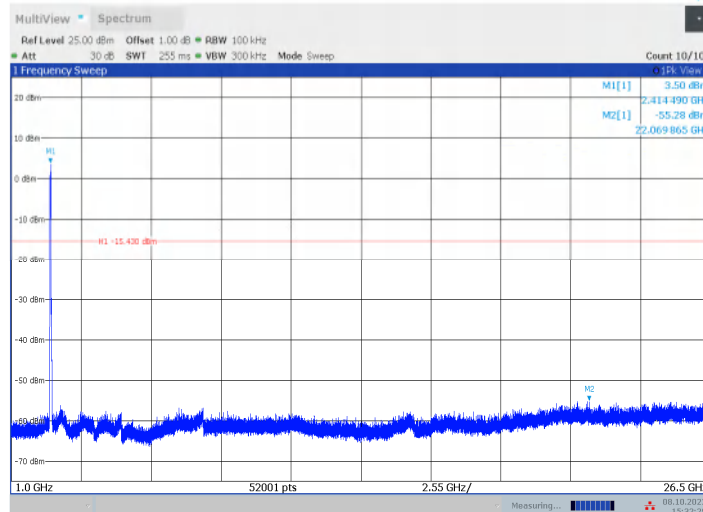
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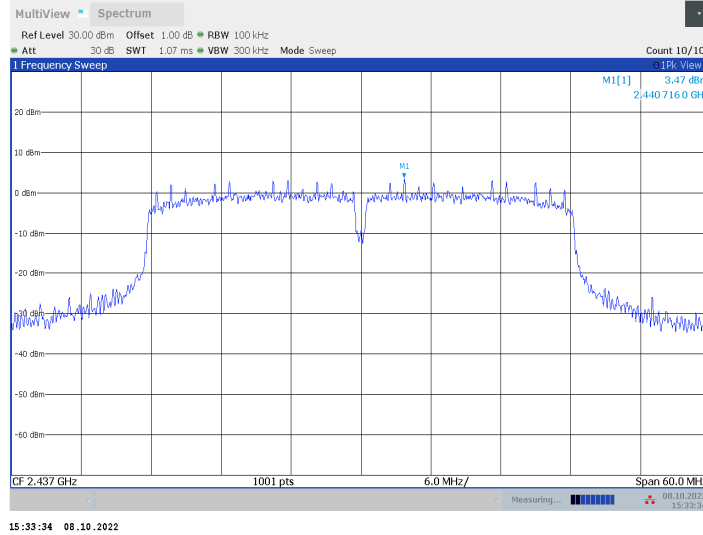


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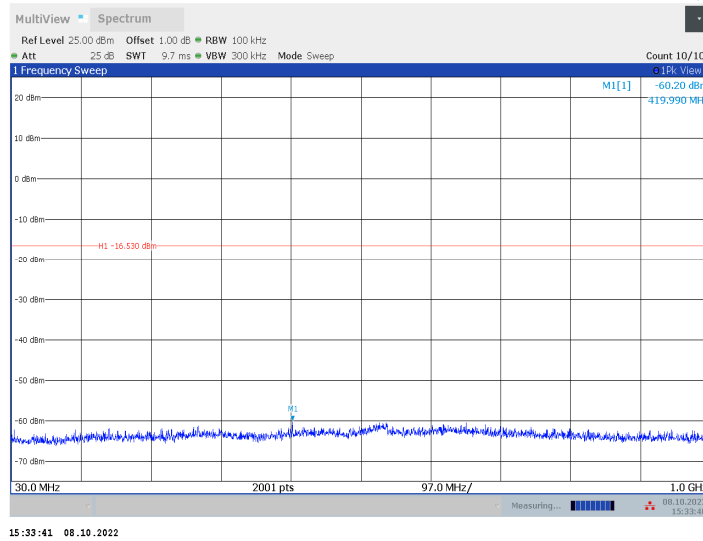
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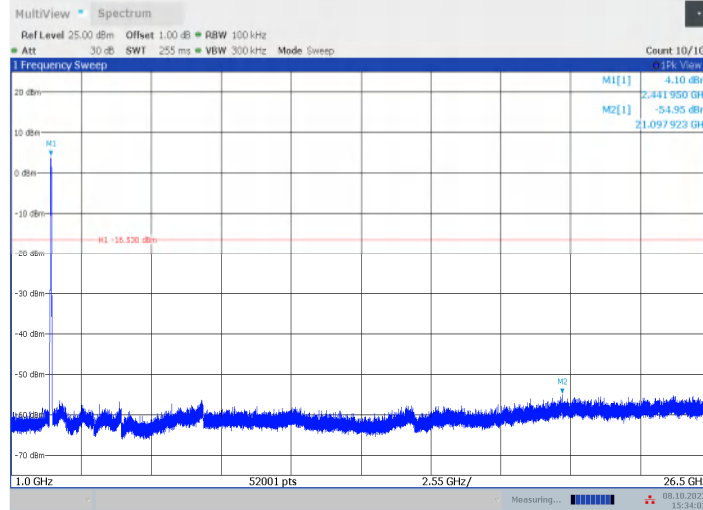


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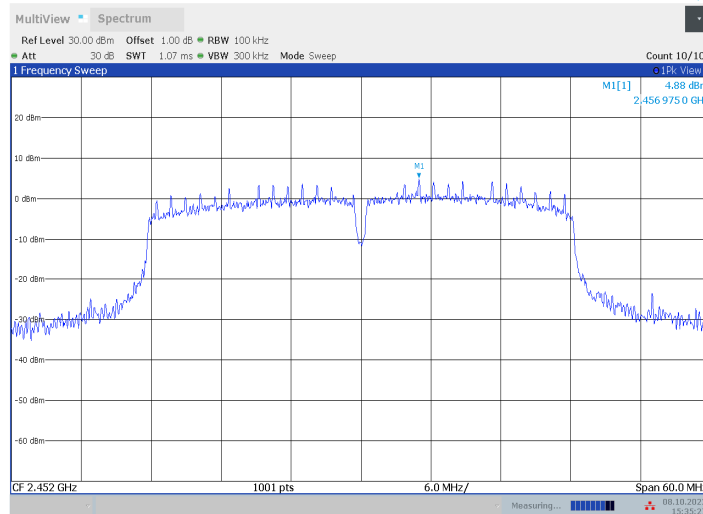
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11n40SISO Ant2 2437 1000~26500



15:34:02 08.10.2022

11n40SISO Ant2 2452 0~Reference



15:35:27 08.10.2022

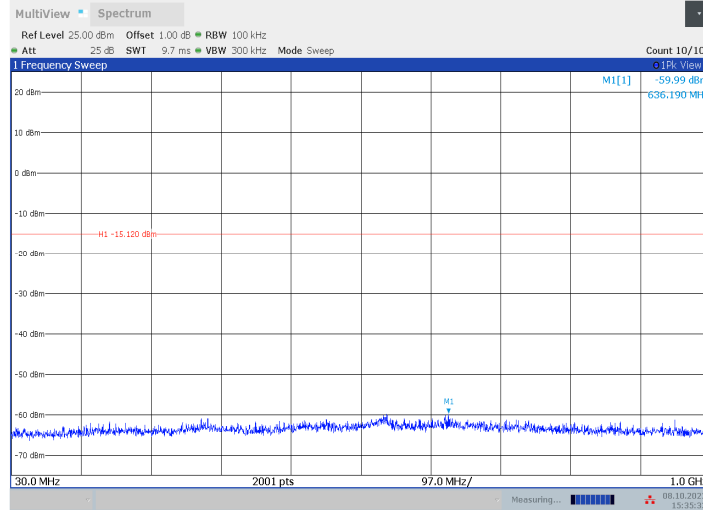


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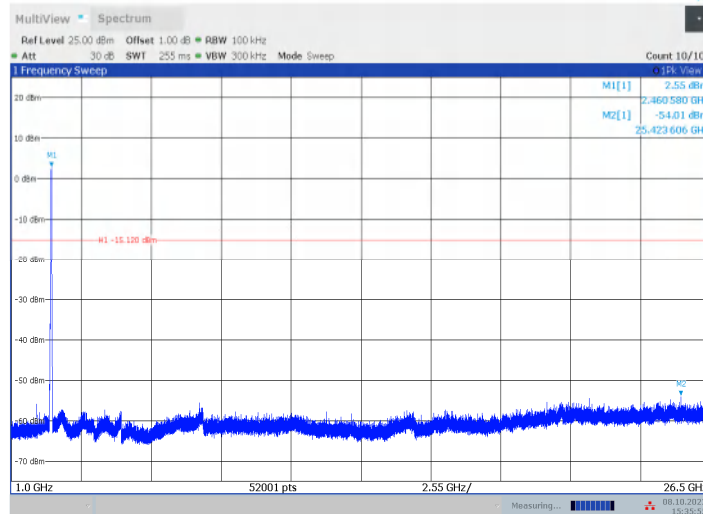
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11n40SISO Ant2 2452 30~1000



15:35:33 08.10.2022

11n40SISO Ant2 2452 1000~26500



15:35:55 08.10.2022



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Report No.: SEWA2209000044RG03

Rev.: 01

Page: 75 of 119

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant2	2412	12.44	12.56	99.04
11g	Ant2	2412	2.06	2.17	94.93
11n20SISO	Ant2	2412	1.93	2.07	93.24
11n40SISO	Ant2	2422	0.95	1.08	87.96



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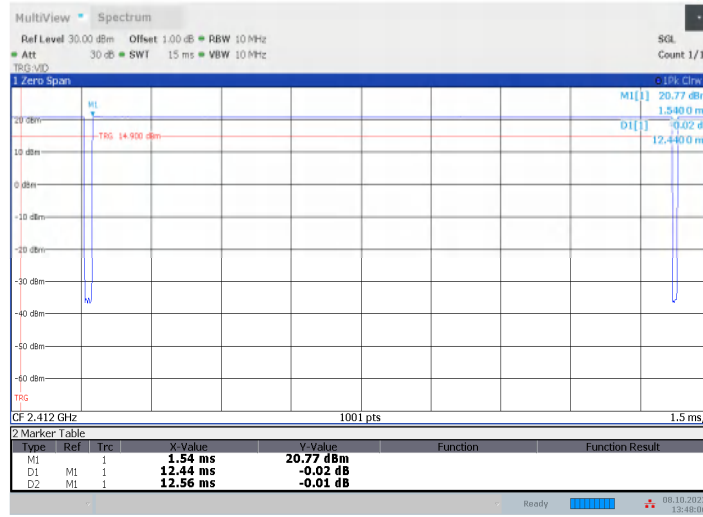
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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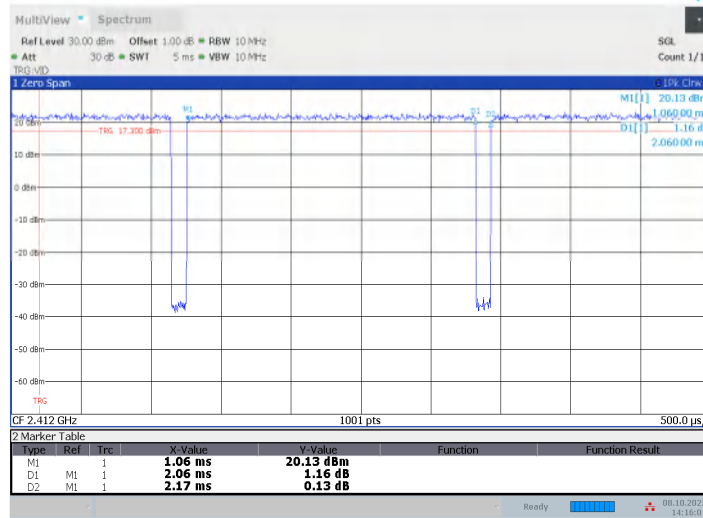
Test Graphs

11b Ant2 2412



13:48:07 08.10.2022

11g Ant2 2412



14:16:02 08.10.2022



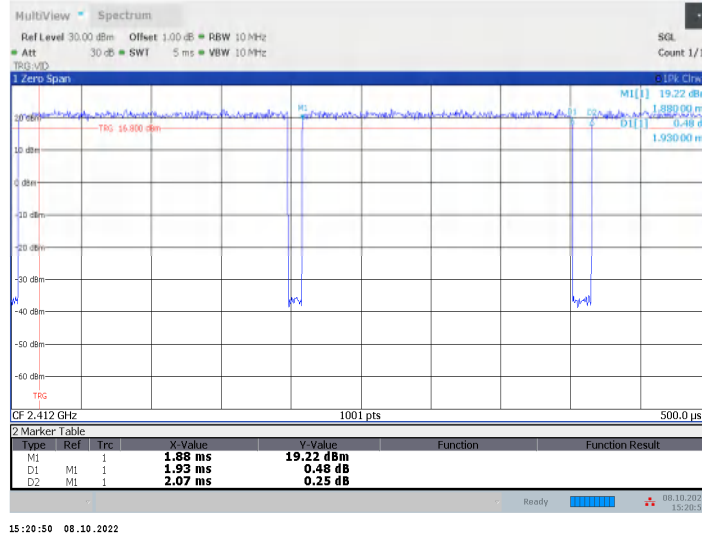
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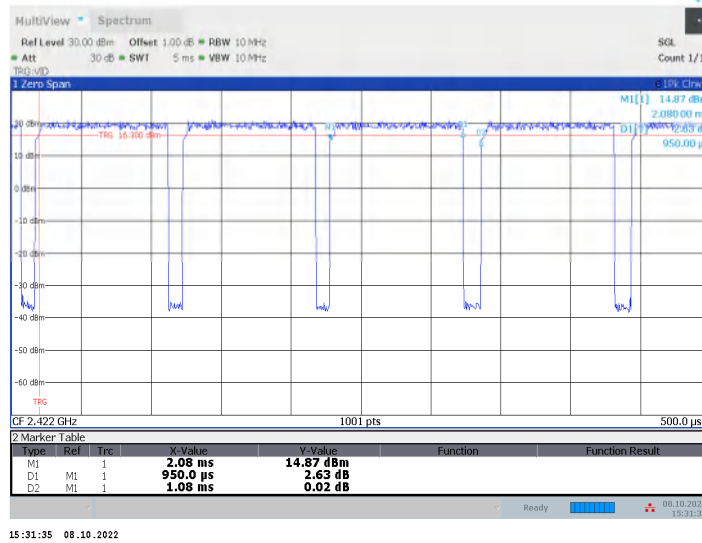
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11n20SISO_Ant2_2412



11n40SISO_Ant2_2422



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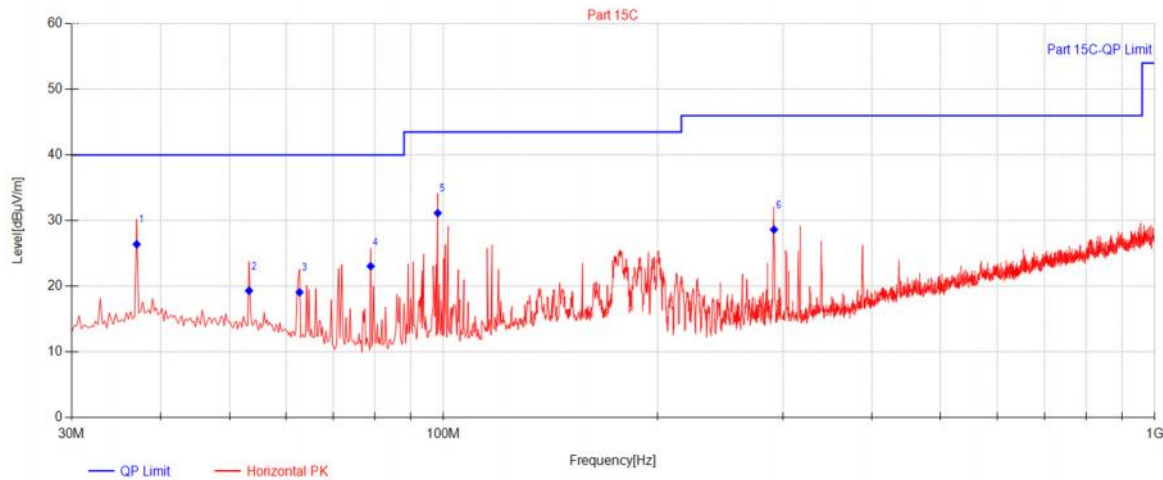
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11n40_Channel 03



Final 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	37.0325	49.12	-36.40	13.67	26.39	40.00	13.61	215	0	Horizontal
2	53.28	42.26	-36.23	13.28	19.32	40.00	20.68	148	110	Horizontal
3	62.7375	43.29	-36.43	12.22	19.08	40.00	20.92	136	51	Horizontal
4	78.985	49.33	-35.72	9.45	23.05	40.00	16.95	255	222	Horizontal
5	98.1425	57.02	-35.88	10.02	31.15	43.50	12.35	198	110	Horizontal
6	291.415	50.13	-34.09	12.59	28.63	46.00	17.37	145	182	Horizontal

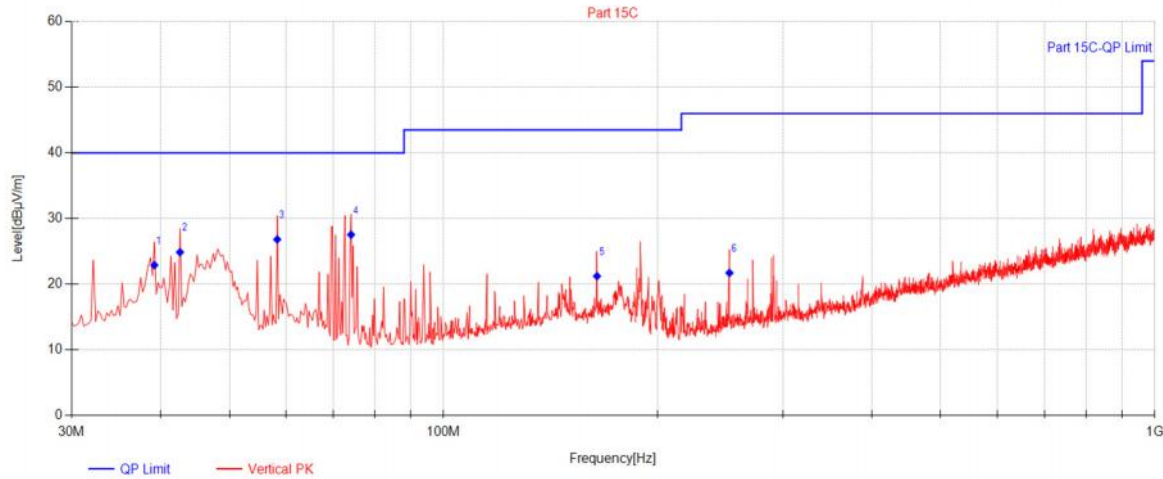


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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.215	45.23	-36.30	13.96	22.89	40.00	17.11	254	195	Vertical
2	42.61	47.25	-36.24	13.85	24.86	40.00	15.14	165	226	Vertical
3	58.3725	50.29	-36.36	12.88	26.81	40.00	13.19	128	195	Vertical
4	74.135	53.49	-36.15	10.19	27.53	40.00	12.47	136	288	Vertical
5	164.345	42.19	-35.24	14.26	21.21	43.50	22.29	281	338	Vertical
6	252.3725	44.33	-34.24	11.63	21.71	46.00	24.29	198	205	Vertical

Remark:

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

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

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

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

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

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



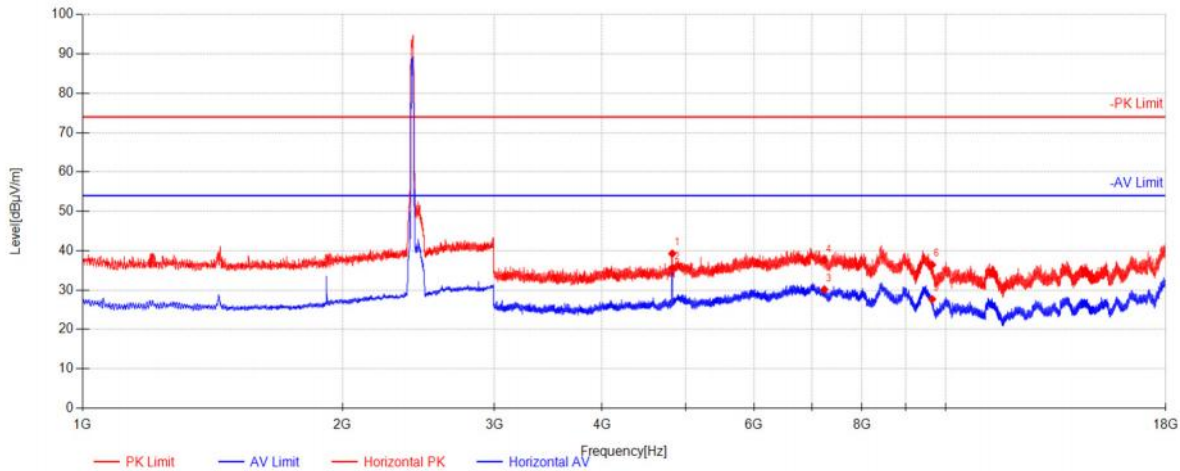
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Transmitter emission Above 1GHz

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	4824.0000	52.41	32.39	-45.54	39.26	74.00	34.74	152	56	Horizontal
2	4824.5	48.78	32.39	-45.54	35.63	54.00	18.37	163	85	Horizontal
3	7236.0000	37.11	36.58	-43.54	30.15	54.00	23.85	195	305	Horizontal
4	7236.0000	44.56	36.58	-43.54	37.60	74.00	36.40	145	113	Horizontal
5	9648.0000	28.84	38.39	-39.56	27.67	54.00	26.33	148	9	Horizontal
6	9648.0000	37.60	38.39	-39.56	36.43	74.00	37.57	182	194	Horizontal



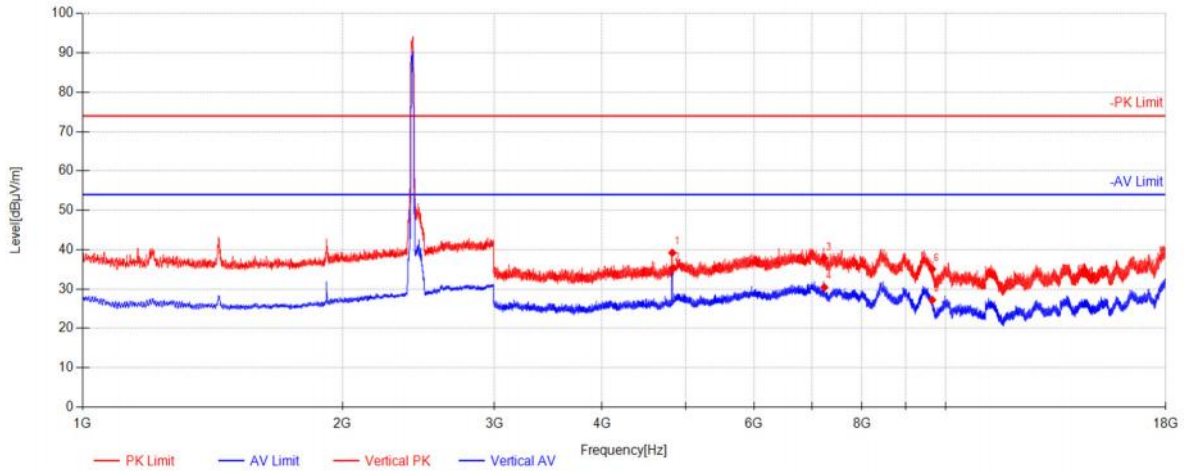
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802.11b_Channel 01



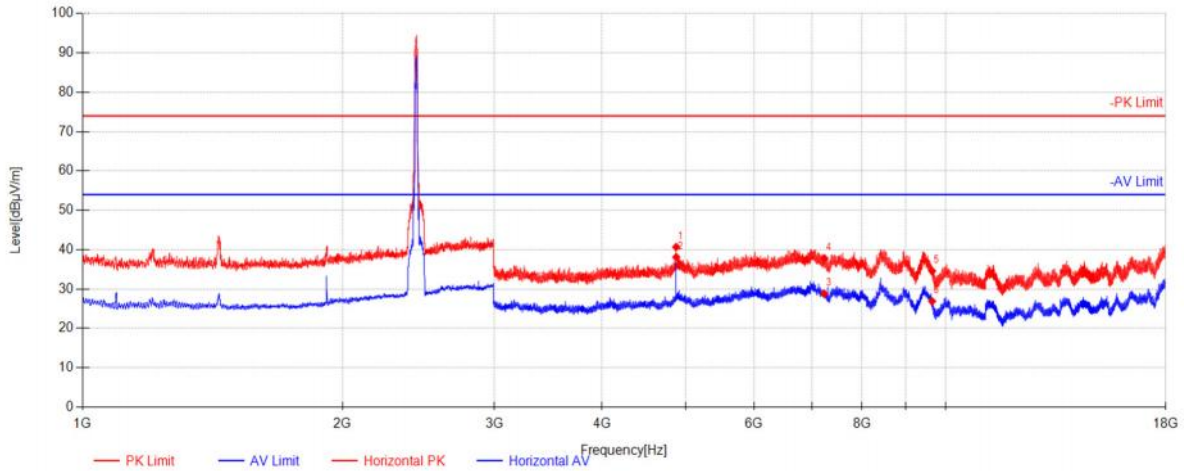
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	52.34	32.39	-45.54	39.19	74.00	34.81	245	276	Vertical
2	4824.5	48.41	32.39	-45.54	35.26	54.00	18.74	269	276	Vertical
3	7236.0000	44.79	36.58	-43.54	37.83	74.00	36.17	291	166	Vertical
4	7236.0000	37.39	36.58	-43.54	30.43	54.00	23.57	158	334	Vertical
5	9648.0000	28.41	38.39	-39.56	27.24	54.00	26.76	143	0	Vertical
6	9648.0000	36.25	38.39	-39.56	35.08	74.00	38.92	178	194	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	53.69	32.53	-45.53	40.68	74.00	33.32	245	193	Horizontal
2	4874.5	51.09	32.53	-45.53	38.09	54.00	15.91	169	193	Horizontal
3	7236.0000	35.75	36.58	-43.54	28.79	54.00	25.21	198	0	Horizontal
4	7236.0000	44.78	36.58	-43.54	37.82	74.00	36.18	175	304	Horizontal
5	9648.0000	35.75	38.39	-39.56	34.58	74.00	39.42	184	83	Horizontal
6	9648.0000	28.07	38.39	-39.56	26.90	54.00	27.10	165	135	Horizontal

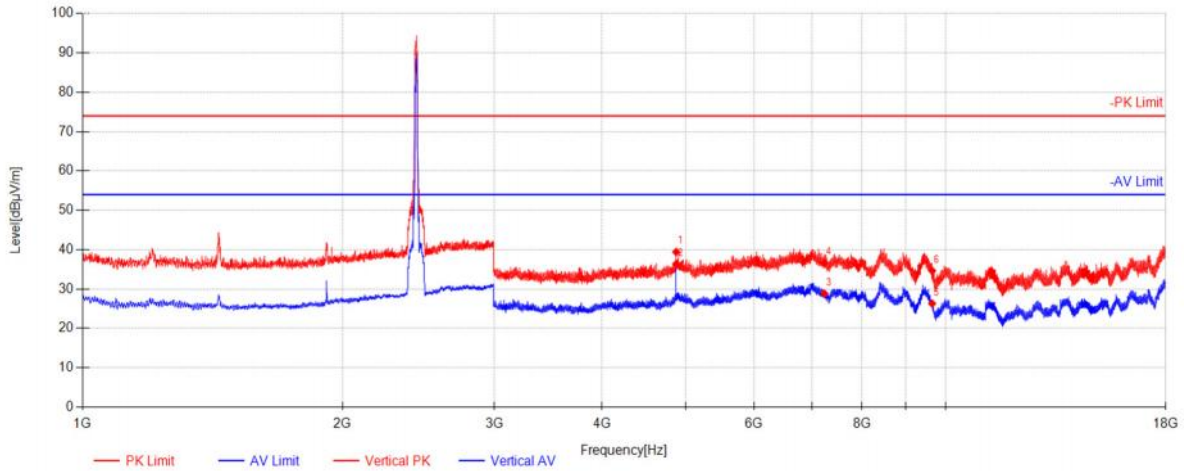


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802.11b_Channel 06



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	52.43	32.53	-45.53	39.42	74.00	34.58	248	194	Vertical
2	4874.5	49.38	32.53	-45.53	36.38	54.00	17.62	195	303	Vertical
3	7236.0000	35.81	36.58	-43.54	28.85	54.00	25.15	125	248	Vertical
4	7236.0000	43.62	36.58	-43.54	36.66	74.00	37.34	136	110	Vertical
5	9648.0000	27.48	38.39	-39.56	26.31	54.00	27.69	265	1	Vertical
6	9648.0000	35.83	38.39	-39.56	34.66	74.00	39.34	185	0	Vertical

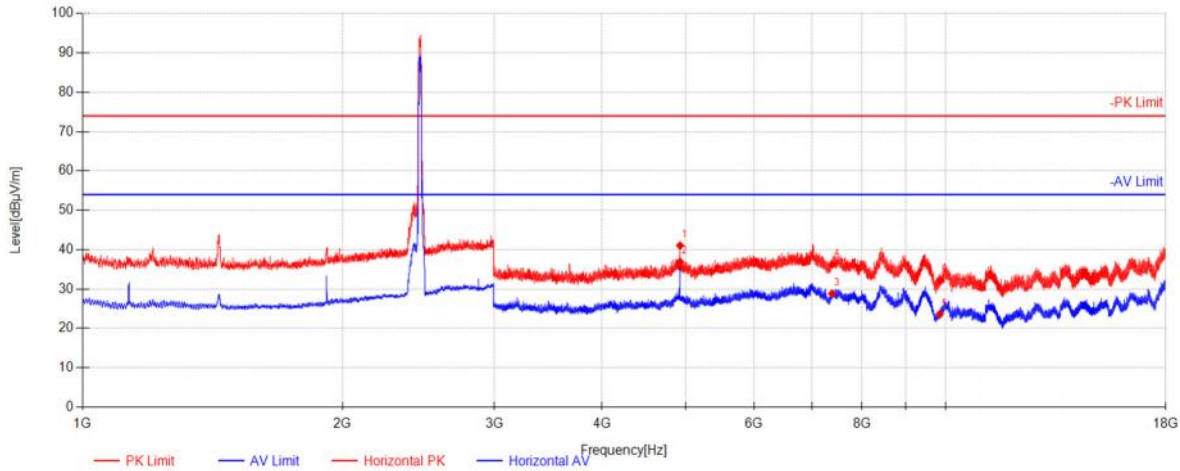


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802.11b_Channel 11



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	4924.0000	53.95	32.67	-45.56	41.06	74.00	32.94	263	221	Horizontal
2	4924.5	49.80	32.67	-45.56	36.91	54.00	17.09	159	220	Horizontal
3	7386.0000	35.80	36.50	-43.46	28.84	54.00	25.16	186	1	Horizontal
4	7386.0000	43.18	36.50	-43.46	36.22	74.00	37.78	145	55	Horizontal
5	9848.0000	24.70	38.28	-39.41	23.58	54.00	30.42	132	221	Horizontal
6	9848.0000	33.39	38.28	-39.41	32.27	74.00	41.73	145	139	Horizontal

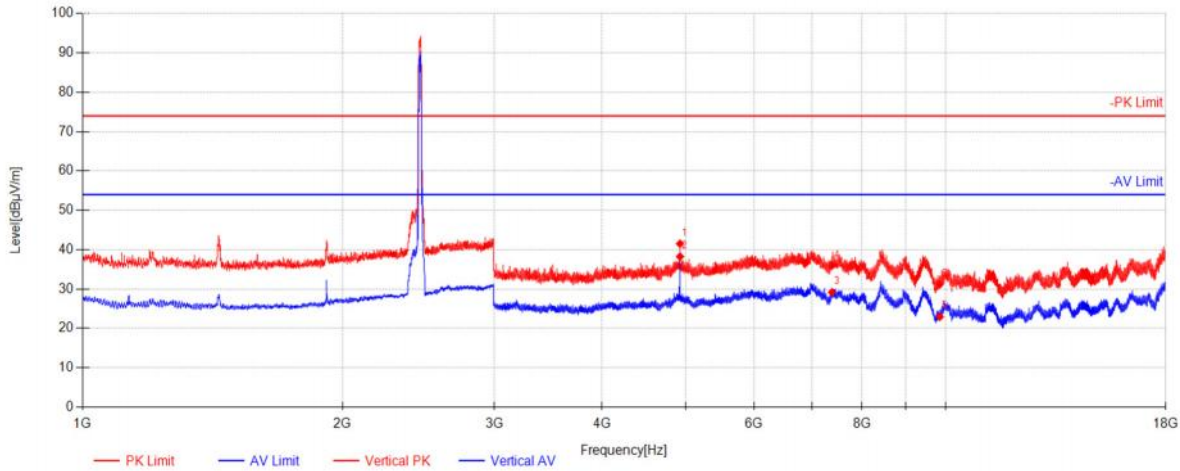


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802.11b_Channel 11



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	4924.0000	54.41	32.67	-45.56	41.52	74.00	32.48	248	279	Vertical
2	4924.5	51.14	32.67	-45.56	38.25	54.00	15.75	199	279	Vertical
3	7386.0000	36.16	36.50	-43.46	29.20	54.00	24.80	153	0	Vertical
4	7386.0000	42.91	36.50	-43.46	35.95	74.00	38.05	178	252	Vertical
5	9848.0000	24.07	38.28	-39.41	22.95	54.00	31.05	164	332	Vertical
6	9848.0000	32.32	38.28	-39.41	31.20	74.00	42.80	129	222	Vertical

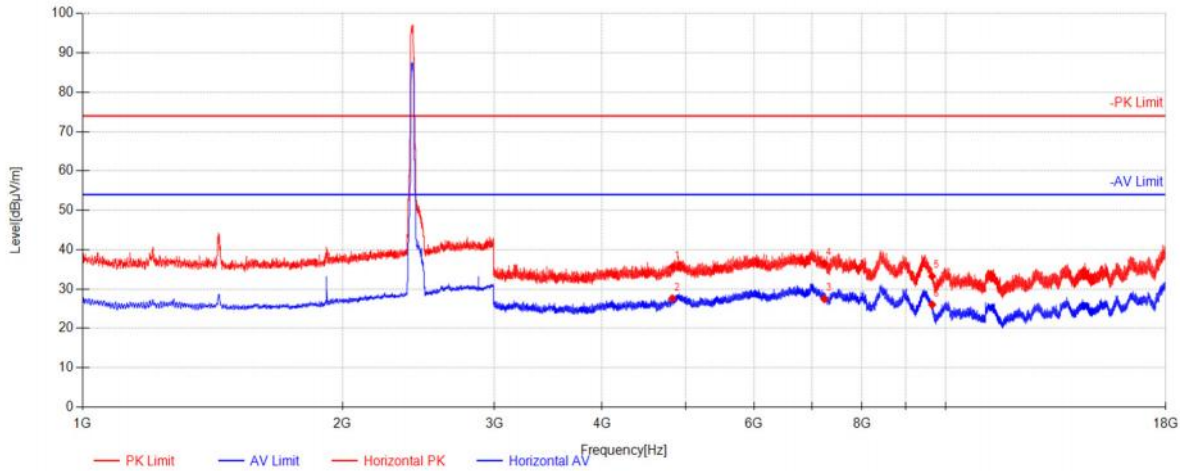


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.73	32.39	-45.54	35.58	74.00	38.42	254	195	Horizontal
2	4824.0000	40.75	32.39	-45.54	27.60	54.00	26.40	162	138	Horizontal
3	7236.0000	34.44	36.58	-43.54	27.48	54.00	26.52	133	306	Horizontal
4	7236.0000	43.45	36.58	-43.54	36.49	74.00	37.51	198	195	Horizontal
5	9648.0000	34.40	38.39	-39.56	33.23	74.00	40.77	154	54	Horizontal
6	9648.0000	27.22	38.39	-39.56	26.05	54.00	27.95	175	0	Horizontal

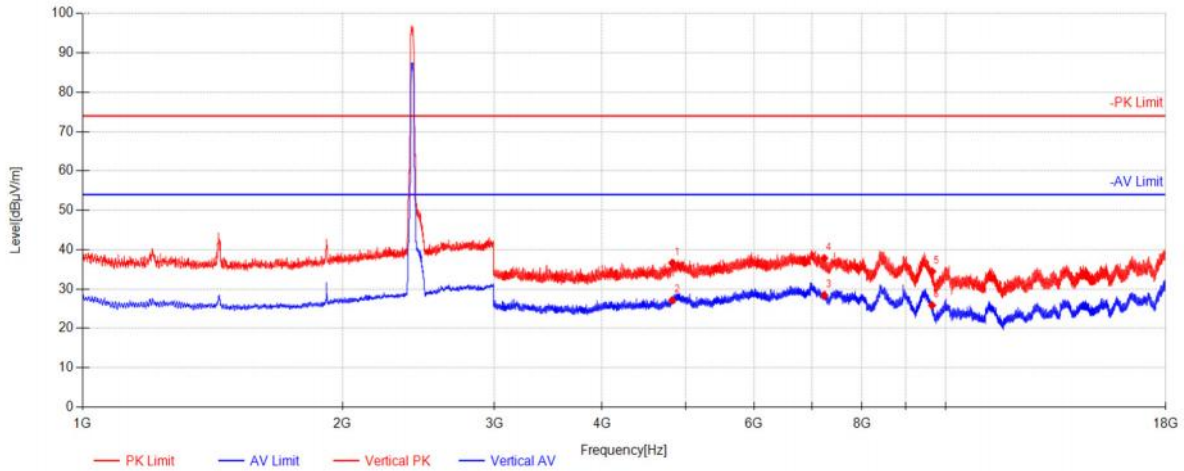


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802.11g_Channel 01



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	4824.0000	49.77	32.39	-45.54	36.62	74.00	37.38	284	276	Vertical
2	4824.0000	40.33	32.39	-45.54	27.18	54.00	26.82	147	357	Vertical
3	7236.0000	35.37	36.58	-43.54	28.41	54.00	25.59	182	280	Vertical
4	7236.0000	44.79	36.58	-43.54	37.83	74.00	36.17	196	196	Vertical
5	9648.0000	35.64	38.39	-39.56	34.47	74.00	39.53	125	0	Vertical
6	9648.0000	27.04	38.39	-39.56	25.87	54.00	28.13	136	1	Vertical



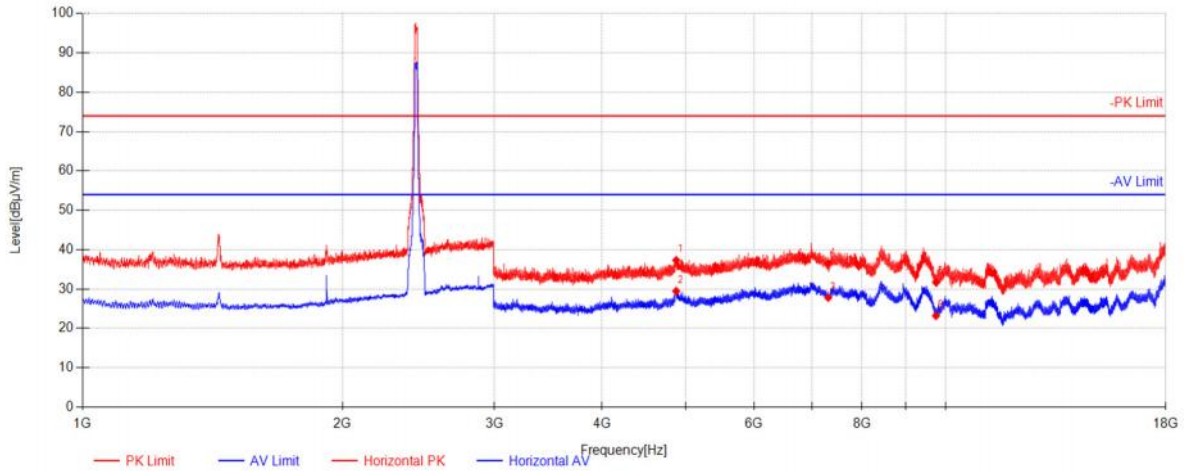
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802.11g_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	50.34	32.53	-45.53	37.33	74.00	36.67	245	167	Horizontal
2	4874.0000	42.48	32.53	-45.53	29.47	54.00	24.53	195	167	Horizontal
3	7311.0000	34.99	36.54	-43.71	27.82	54.00	26.18	148	250	Horizontal
4	7311.0000	43.73	36.54	-43.71	36.56	74.00	37.44	236	359	Horizontal
5	9748.0000	32.92	38.28	-39.46	31.74	74.00	42.26	251	352	Horizontal
6	9748.0000	24.38	38.28	-39.46	23.20	54.00	30.80	175	276	Horizontal

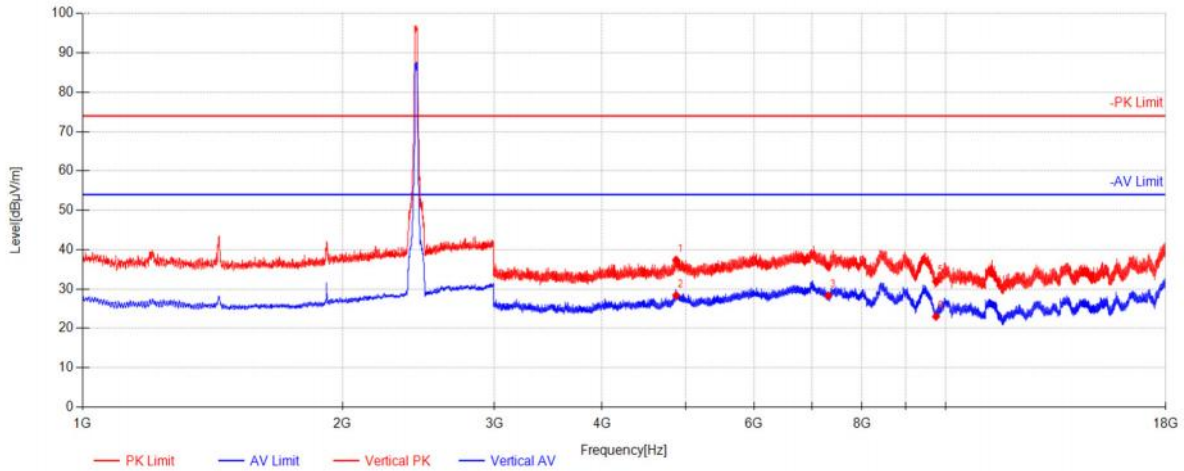


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802.11g_Channel 06



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	4874.0000	50.38	32.53	-45.53	37.37	74.00	36.63	245	355	Vertical
2	4874.0000	41.42	32.53	-45.53	28.41	54.00	25.59	136	195	Vertical
3	7311.0000	35.51	36.54	-43.71	28.34	54.00	25.66	254	236	Vertical
4	7311.0000	42.98	36.54	-43.71	35.81	74.00	38.19	195	336	Vertical
5	9748.0000	33.10	38.28	-39.46	31.92	74.00	42.08	122	236	Vertical
6	9748.0000	24.18	38.28	-39.46	23.00	54.00	31.00	186	84	Vertical

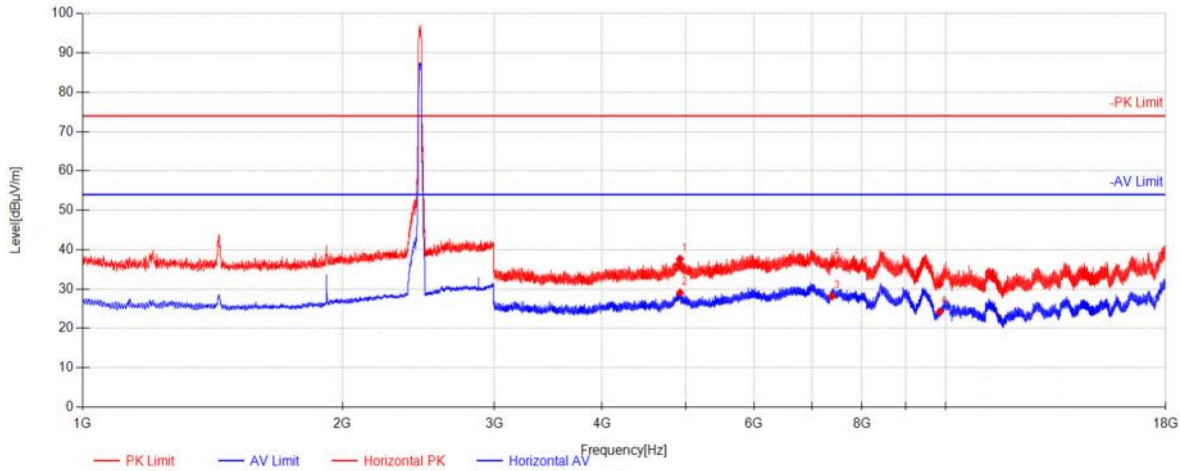


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802.11g_Channel 11



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	4924.0000	50.52	32.67	-45.56	37.63	74.00	36.37	245	221	Horizontal
2	4924.0000	41.92	32.67	-45.56	29.03	54.00	24.97	291	250	Horizontal
3	7386.0000	35.09	36.50	-43.46	28.13	54.00	25.87	142	305	Horizontal
4	7386.0000	43.48	36.50	-43.46	36.52	74.00	37.48	136	55	Horizontal
5	9848.0000	32.31	38.28	-39.41	31.19	74.00	42.81	256	250	Horizontal
6	9848.0000	25.34	38.28	-39.41	24.22	54.00	29.78	188	110	Horizontal

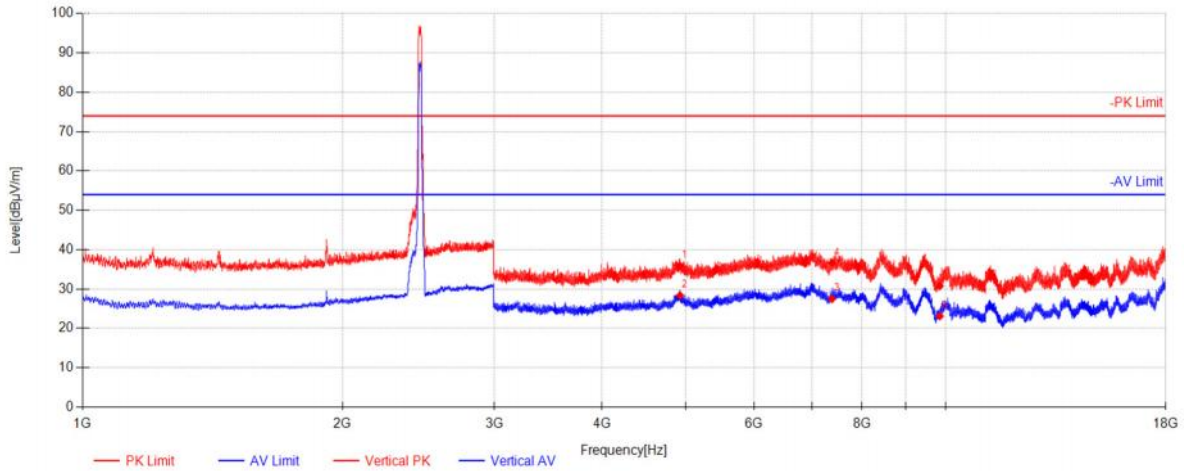


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.80	32.67	-45.56	35.91	74.00	38.09	254	166	Vertical
2	4924.0000	41.27	32.67	-45.56	28.38	54.00	25.62	142	4	Vertical
3	7386.0000	34.44	36.50	-43.46	27.48	54.00	26.52	132	220	Vertical
4	7386.0000	43.57	36.50	-43.46	36.61	74.00	37.39	186	166	Vertical
5	9848.0000	31.90	38.28	-39.41	30.78	74.00	43.22	195	166	Vertical
6	9848.0000	24.22	38.28	-39.41	23.10	54.00	30.90	166	360	Vertical

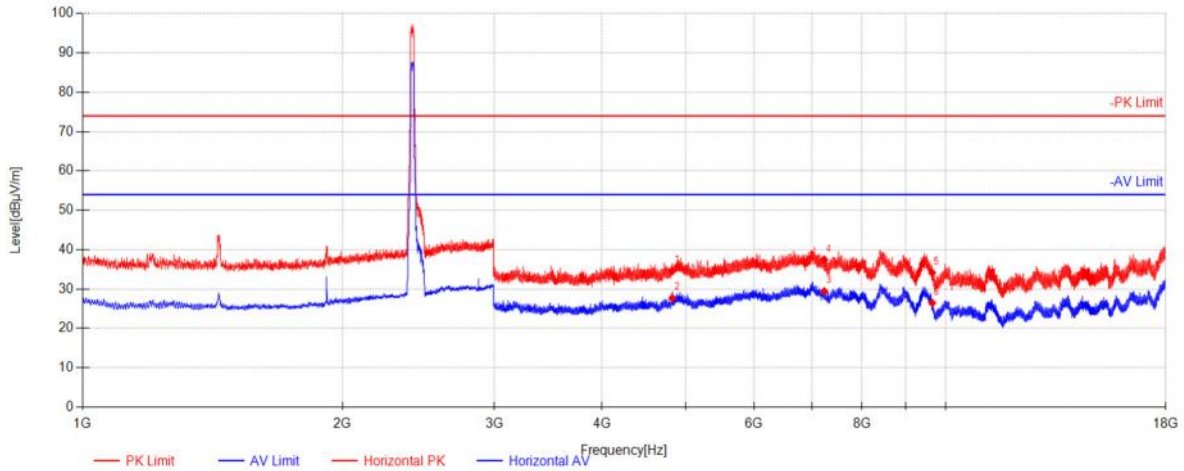


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	47.74	32.39	-45.54	34.59	74.00	39.41	215	220	Horizontal
2	4824.0000	40.84	32.39	-45.54	27.69	54.00	26.31	154	82	Horizontal
3	7236.0000	36.37	36.58	-43.54	29.41	54.00	24.59	133	277	Horizontal
4	7236.0000	44.43	36.58	-43.54	37.47	74.00	36.53	148	304	Horizontal
5	9648.0000	35.31	38.39	-39.56	34.14	74.00	39.86	196	277	Horizontal
6	9648.0000	27.65	38.39	-39.56	26.48	54.00	27.52	236	351	Horizontal

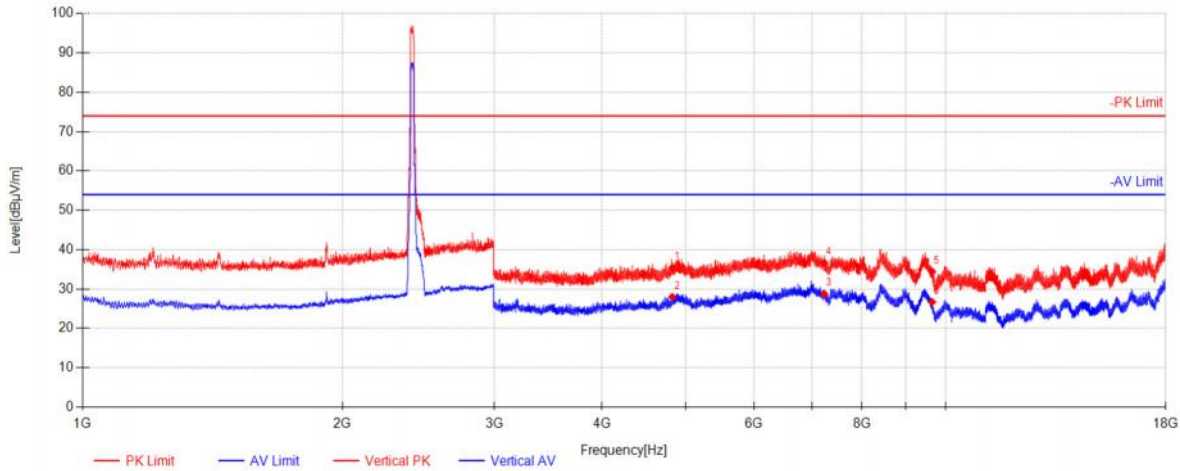


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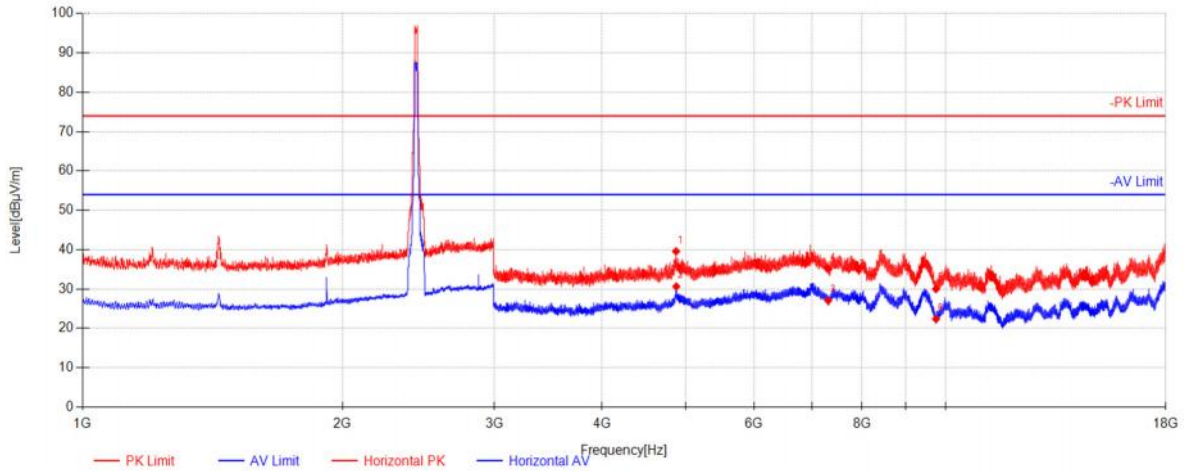


Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.54	32.39	-45.54	35.39	74.00	38.61	254	166	Vertical
2	4824.0000	41.14	32.39	-45.54	27.99	54.00	26.01	148	279	Vertical
3	7236.0000	35.69	36.58	-43.54	28.73	54.00	25.27	136	4	Vertical
4	7236.0000	43.61	36.58	-43.54	36.65	74.00	37.35	162	110	Vertical
5	9648.0000	35.59	38.39	-39.56	34.42	74.00	39.58	195	166	Vertical
6	9648.0000	27.85	38.39	-39.56	26.68	54.00	27.32	216	360	Vertical



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1	4872	52.58	32.52	-45.53	39.57	74.00	34.43	256	195	Horizontal
2	4875	43.64	32.53	-45.53	30.64	54.00	23.36	144	195	Horizontal
3	7311.0000	34.25	36.54	-43.71	27.08	54.00	26.92	264	166	Horizontal
4	7311.0000	42.35	36.54	-43.71	35.18	74.00	38.82	133	332	Horizontal
5	9748.0000	31.18	38.28	-39.46	30.00	74.00	44.00	291	81	Horizontal
6	9748.0000	23.58	38.28	-39.46	22.40	54.00	31.60	148	360	Horizontal



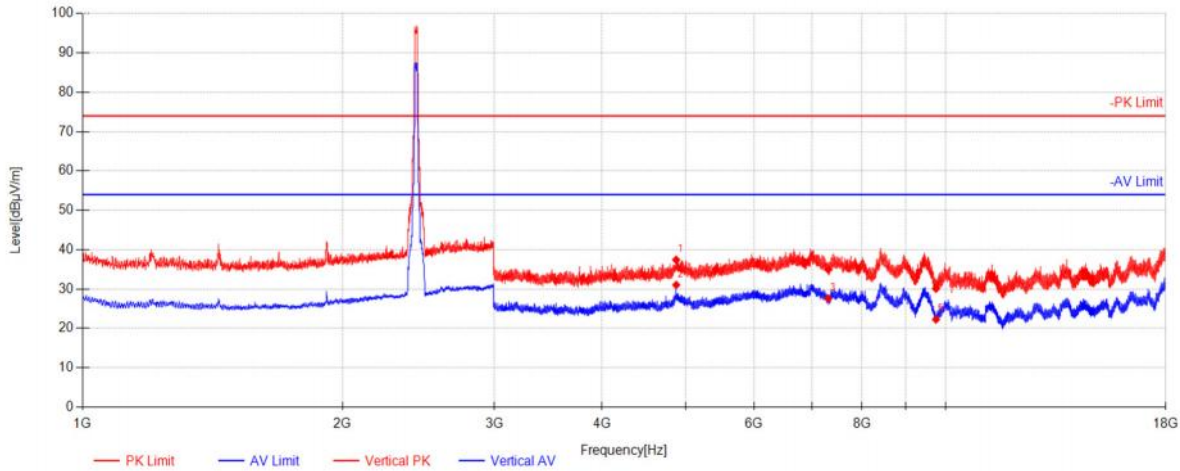
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	50.43	32.53	-45.53	37.42	74.00	36.58	216	307	Vertical
2	4874.5	44.04	32.53	-45.53	31.04	54.00	22.96	235	280	Vertical
3	7311.0000	34.73	36.54	-43.71	27.56	54.00	26.44	162	110	Vertical
4	7311.0000	42.15	36.54	-43.71	34.98	74.00	39.02	148	251	Vertical
5	9748.0000	23.45	38.28	-39.46	22.27	54.00	31.73	153	307	Vertical
6	9748.0000	31.27	38.28	-39.46	30.09	74.00	43.91	106	82	Vertical



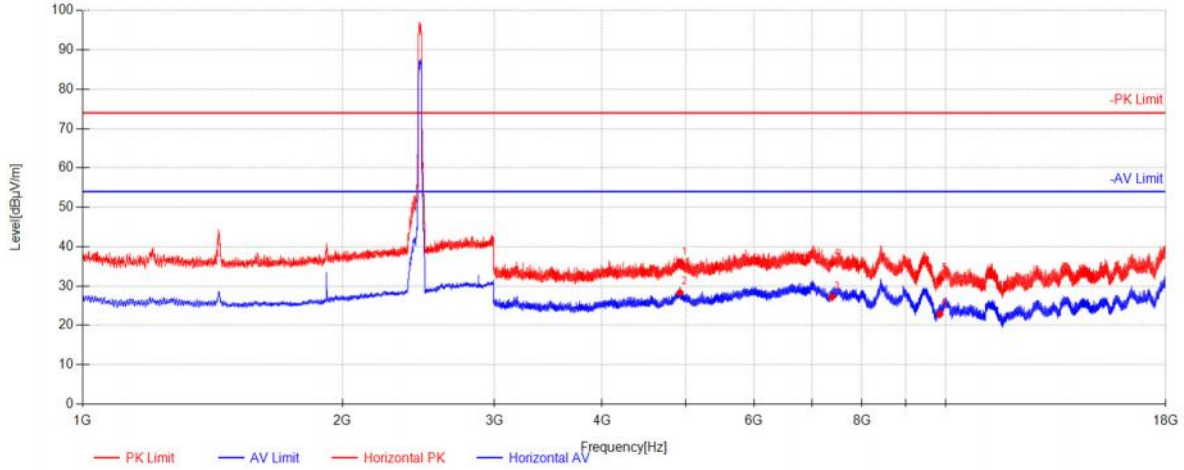
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802.11n20_Channel 11



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	4924.0000	48.84	32.67	-45.56	35.95	74.00	38.05	256	192	Horizontal
2	4924.0000	41.18	32.67	-45.56	28.29	54.00	25.71	256	250	Horizontal
3	7386.0000	34.17	36.50	-43.46	27.21	54.00	26.79	192	352	Horizontal
4	7386.0000	42.70	36.50	-43.46	35.74	74.00	38.26	142	110	Horizontal
5	9848.0000	32.92	38.28	-39.41	31.80	74.00	42.20	133	221	Horizontal
6	9848.0000	23.97	38.28	-39.41	22.85	54.00	31.15	187	360	Horizontal

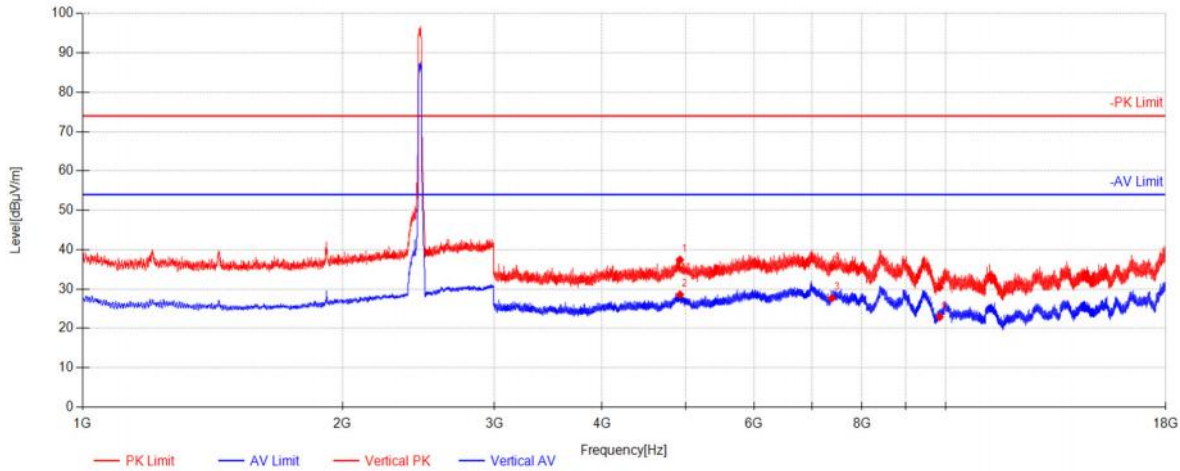


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802.11n20_Channel 11



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	4924.0000	50.30	32.67	-45.56	37.41	74.00	36.59	186	4	Vertical
2	4924.0000	41.46	32.67	-45.56	28.57	54.00	25.43	153	360	Vertical
3	7386.0000	34.64	36.50	-43.46	27.68	54.00	26.32	122	4	Vertical
4	7386.0000	42.46	36.50	-43.46	35.50	74.00	38.50	145	165	Vertical
5	9848.0000	31.56	38.28	-39.41	30.44	74.00	43.56	129	359	Vertical
6	9848.0000	24.01	38.28	-39.41	22.89	54.00	31.11	192	165	Vertical

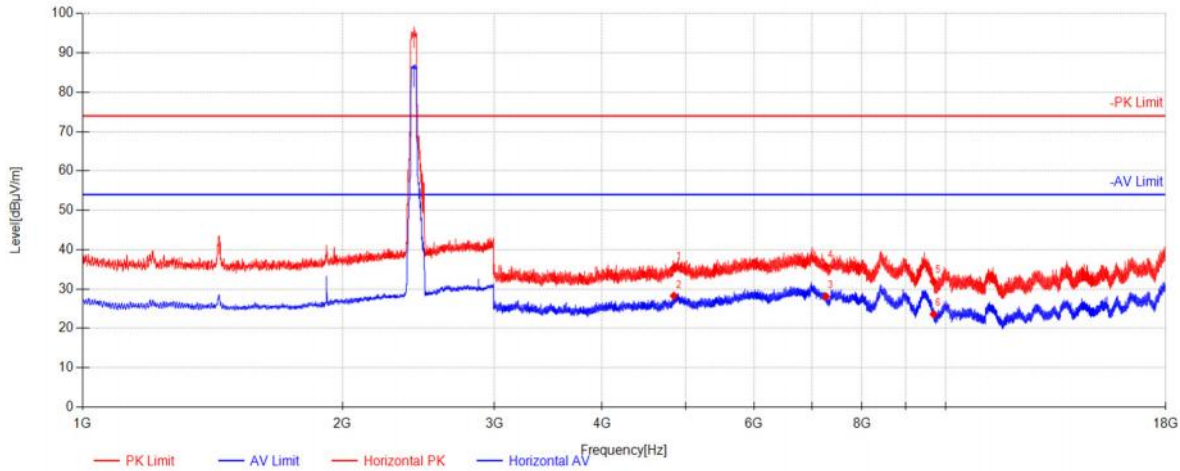


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802.11n40_Channel 03



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	4844.0000	48.48	32.44	-45.54	35.39	74.00	38.61	254	306	Horizontal
2	4844.0000	41.37	32.44	-45.54	28.28	54.00	25.72	219	222	Horizontal
3	7266.0000	35.19	36.56	-43.64	28.12	54.00	25.88	154	352	Horizontal
4	7266.0000	42.89	36.56	-43.64	35.82	74.00	38.18	186	194	Horizontal
5	9688.0000	33.04	38.34	-39.47	31.92	74.00	42.08	166	222	Horizontal
6	9688.0000	24.73	38.34	-39.47	23.61	54.00	30.39	183	165	Horizontal



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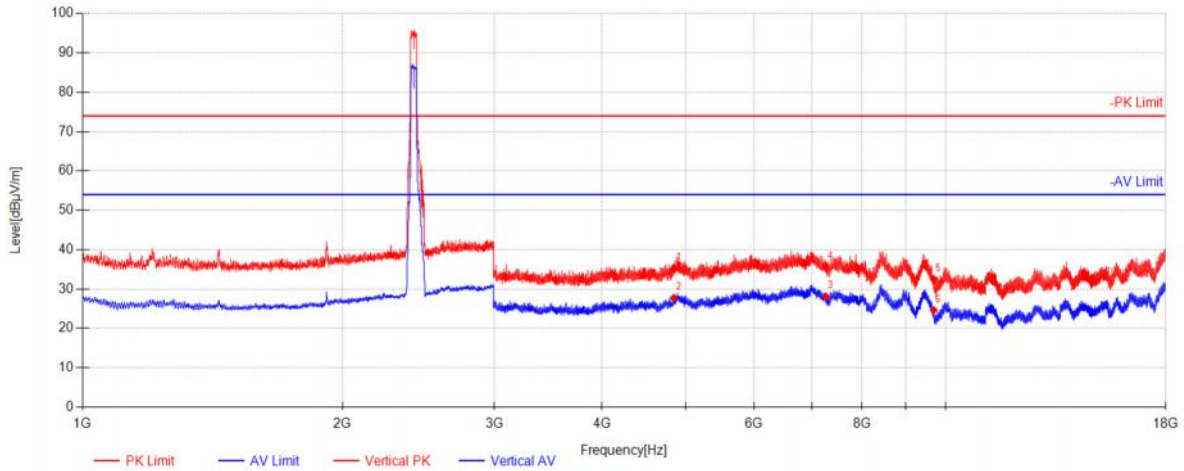
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802.11n40_Channel 03



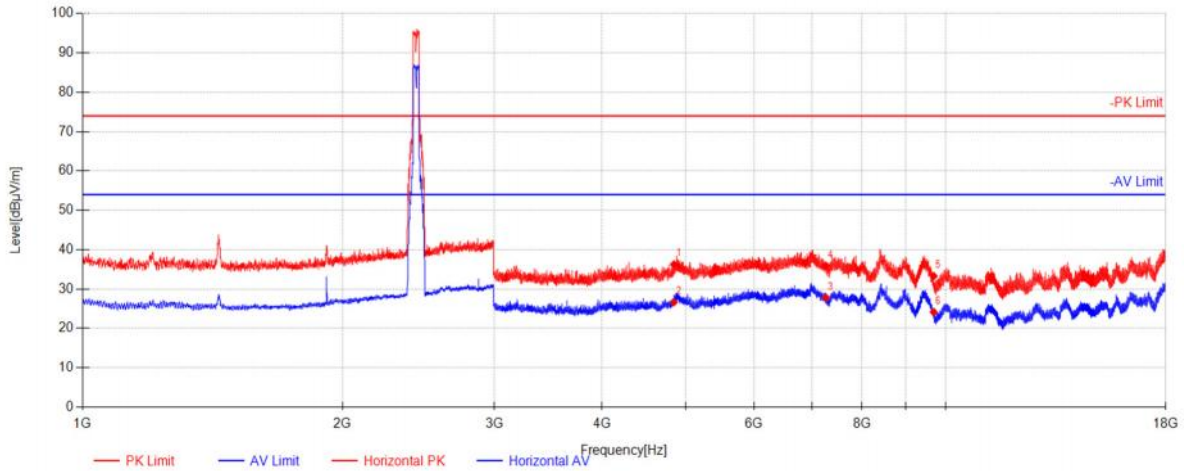
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0000	48.26	32.44	-45.54	35.17	74.00	38.83	284	222	Vertical
2	4844.0000	40.87	32.44	-45.54	27.78	54.00	26.22	269	80	Vertical
3	7266.0000	35.15	36.56	-43.64	28.08	54.00	25.92	291	359	Vertical
4	7266.0000	42.76	36.56	-43.64	35.69	74.00	38.31	152	304	Vertical
5	9688.0000	33.66	38.34	-39.47	32.54	74.00	41.46	133	360	Vertical
6	9688.0000	25.75	38.34	-39.47	24.63	54.00	29.37	147	360	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	4844.0000	49.34	32.44	-45.54	36.25	74.00	37.75	254	360	Horizontal
2	4844.0000	39.75	32.44	-45.54	26.66	54.00	27.34	149	221	Horizontal
3	7266.0000	34.91	36.56	-43.64	27.84	54.00	26.16	192	278	Horizontal
4	7266.0000	42.99	36.56	-43.64	35.92	74.00	38.08	162	111	Horizontal
5	9688.0000	34.40	38.34	-39.47	33.28	74.00	40.72	188	137	Horizontal
6	9688.0000	25.28	38.34	-39.47	24.16	54.00	29.84	143	278	Horizontal

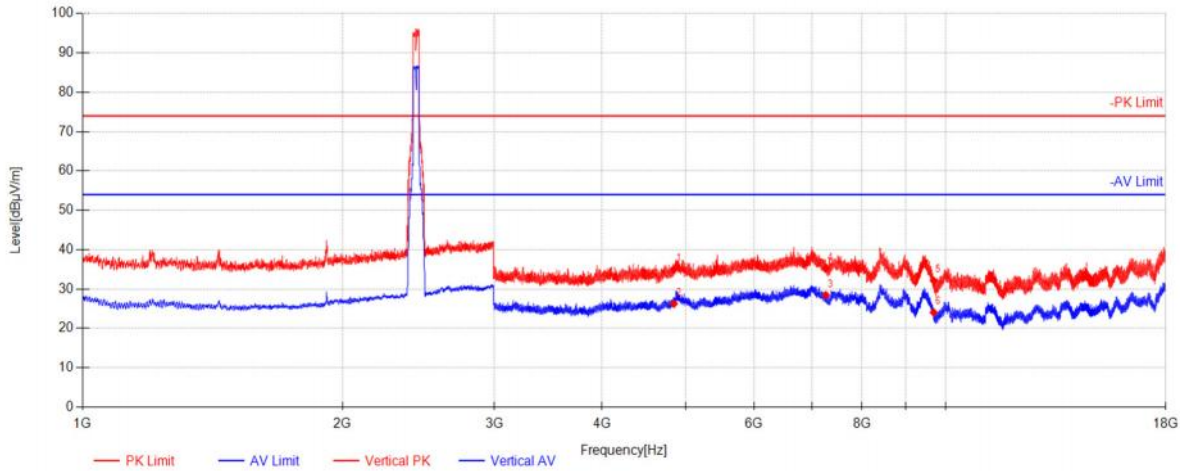


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802.11n40_Channel 06



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	4844.0000	48.15	32.44	-45.54	35.06	74.00	38.94	255	359	Vertical
2	4844.0000	39.35	32.44	-45.54	26.26	54.00	27.74	266	166	Vertical
3	7266.0000	35.54	36.56	-43.64	28.47	54.00	25.53	291	166	Vertical
4	7266.0000	42.28	36.56	-43.64	35.21	74.00	38.79	142	26	Vertical
5	9688.0000	33.26	38.34	-39.47	32.14	74.00	41.86	132	192	Vertical
6	9688.0000	25.18	38.34	-39.47	24.06	54.00	29.94	184	359	Vertical

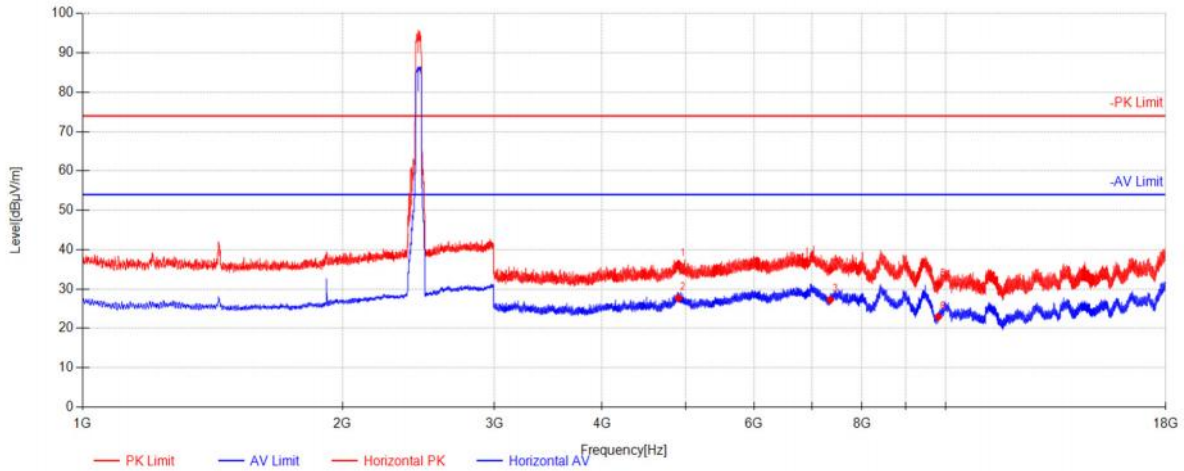


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802.11n40_Channel 09



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	4904.0000	49.31	32.61	-45.53	36.39	74.00	37.61	236	276	Horizontal
2	4904.0000	40.63	32.61	-45.53	27.71	54.00	26.29	148	194	Horizontal
3	7356.0000	34.33	36.51	-43.56	27.28	54.00	26.72	159	111	Horizontal
4	7356.0000	41.91	36.51	-43.56	34.86	74.00	39.14	216	166	Horizontal
5	9808.0000	32.51	38.23	-39.47	31.27	74.00	42.73	152	111	Horizontal
6	9808.0000	24.13	38.23	-39.47	22.89	54.00	31.11	162	304	Horizontal

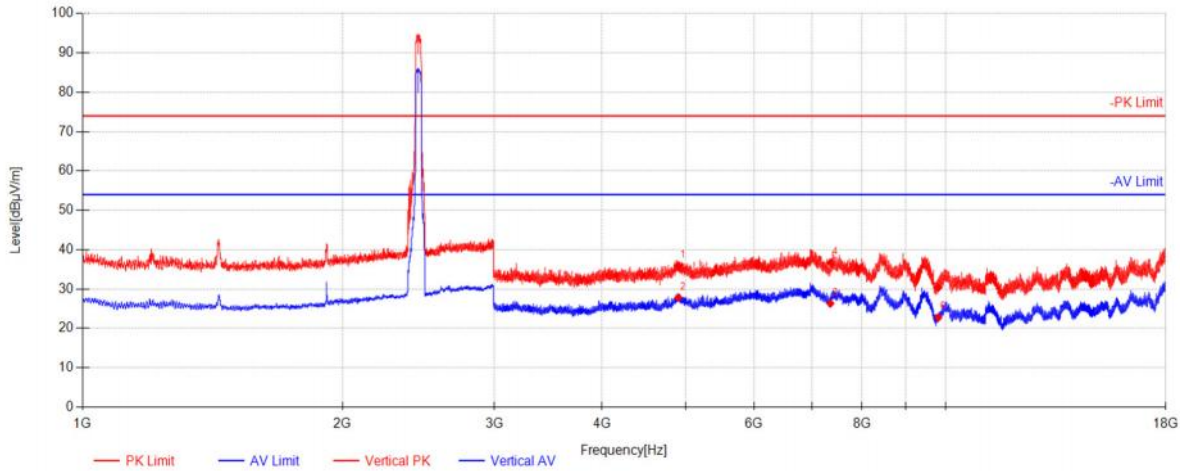


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802.11n40_Channel 09



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	4904.0000	48.82	32.61	-45.53	35.90	74.00	38.10	254	1	Vertical
2	4904.0000	40.74	32.61	-45.53	27.82	54.00	26.18	128	332	Vertical
3	7356.0000	33.39	36.51	-43.56	26.34	54.00	27.66	179	193	Vertical
4	7356.0000	43.77	36.51	-43.56	36.72	74.00	37.28	198	221	Vertical
5	9808.0000	31.60	38.23	-39.47	30.36	74.00	43.64	152	83	Vertical
6	9808.0000	24.00	38.23	-39.47	22.76	54.00	31.24	143	111	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.

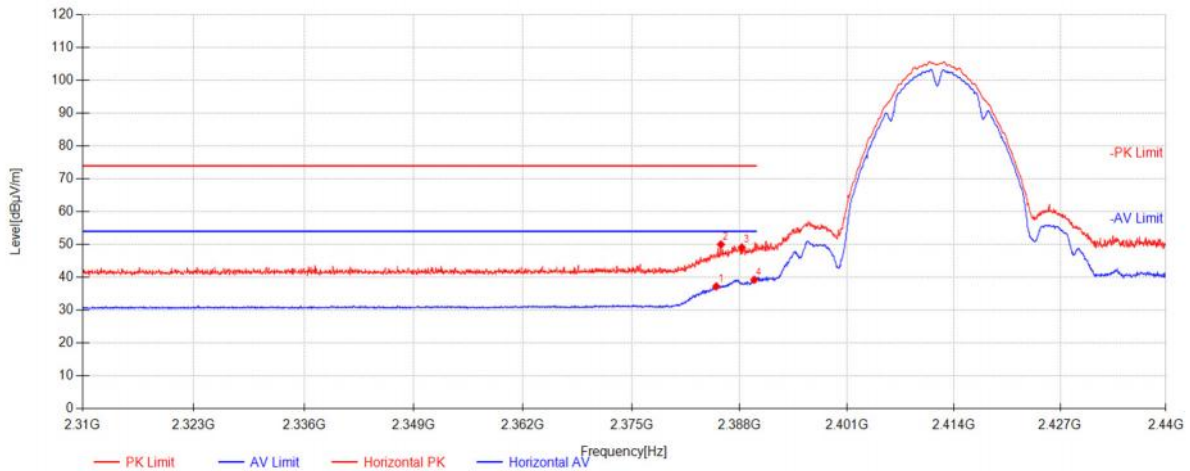


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Restricted bands around fundamental frequency

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.1833	33.36	27.43	-23.57	37.22	54.00	16.78	133	252	Horizontal
2	2385.7467	46.14	27.43	-23.57	50.00	74.00	24.00	133	252	Horizontal
3	2388.26	45.26	27.43	-23.57	49.12	74.00	24.88	133	252	Horizontal
4	2389.7767	35.38	27.43	-23.57	39.24	54.00	14.76	133	252	Horizontal



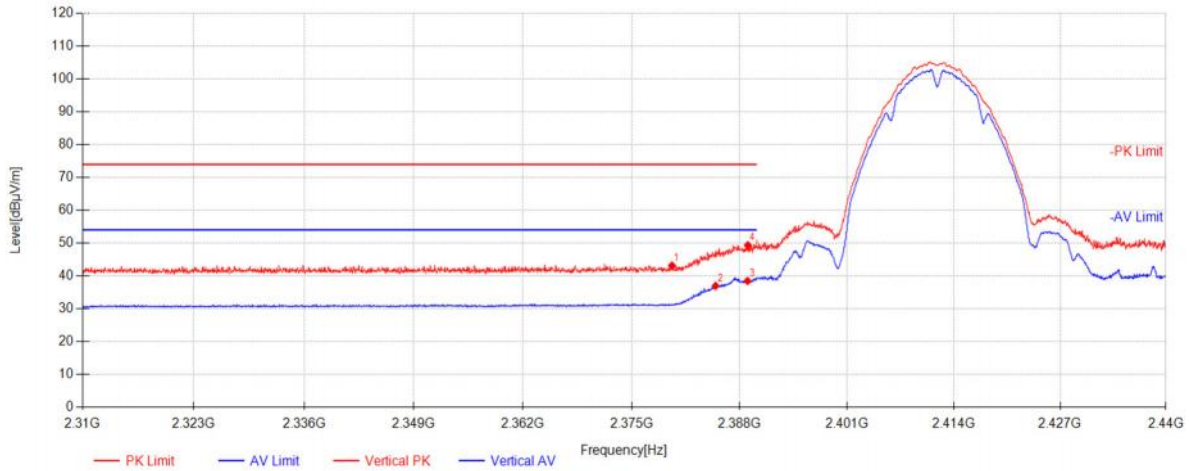
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802.11b_Channel 01



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	2379.8533	39.29	27.43	-23.57	43.15	74.00	30.85	214	260	Vertical
2	2385.0967	33.10	27.43	-23.57	36.96	54.00	17.04	214	260	Vertical
3	2388.9533	34.60	27.43	-23.57	38.46	54.00	15.54	214	260	Vertical
4	2388.9967	45.47	27.43	-23.57	49.33	74.00	24.67	214	260	Vertical

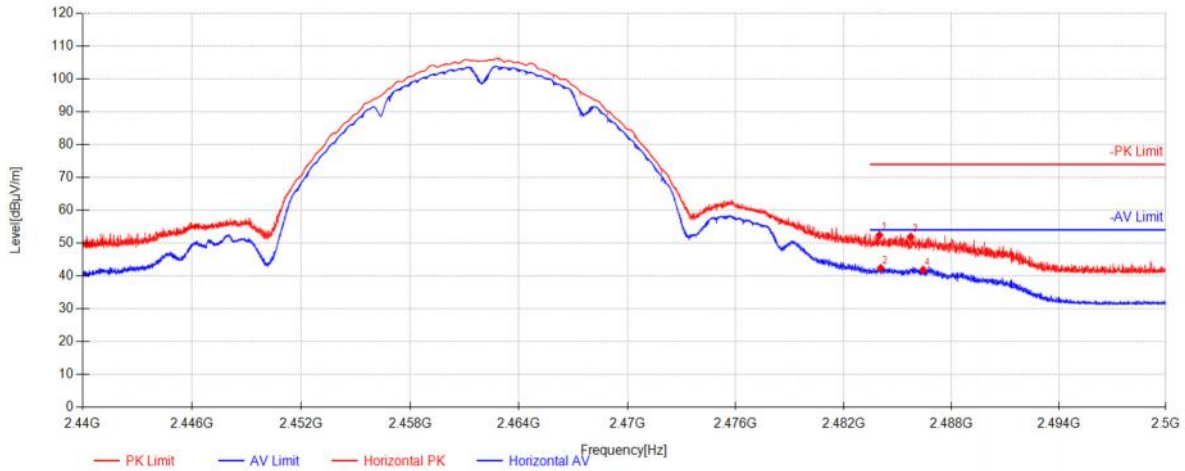


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802.11b_Channel 11



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	2483.995	48.23	27.72	-23.54	52.40	74.00	21.60	298	277	Horizontal
2	2484.07	38.19	27.72	-23.54	42.36	54.00	11.64	298	277	Horizontal
3	2485.735	47.70	27.72	-23.54	51.88	74.00	22.12	298	277	Horizontal
4	2486.4325	37.65	27.73	-23.54	41.83	54.00	12.17	298	277	Horizontal



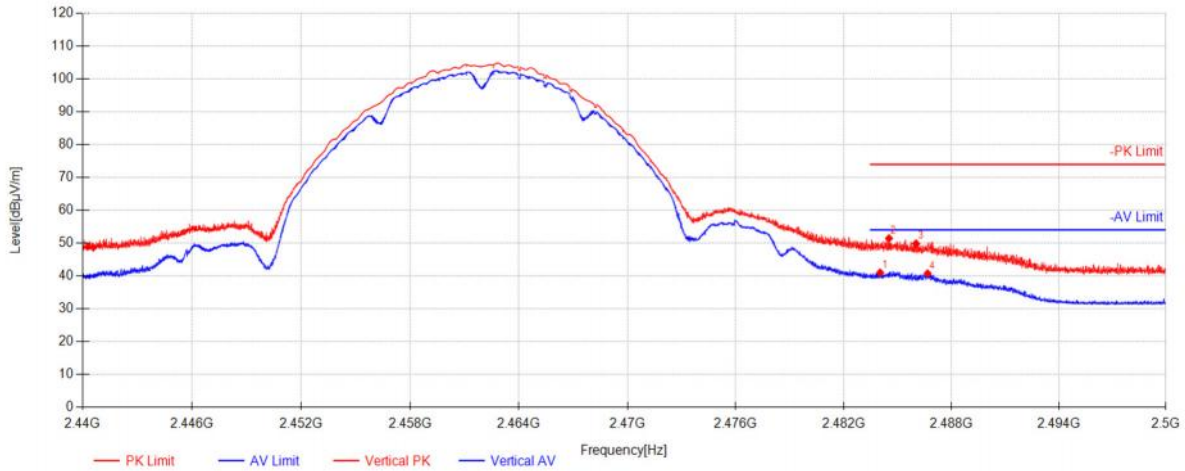
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802.11b_Channel 11



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	2484.0325	36.82	27.72	-23.54	40.99	54.00	13.01	144	288	Vertical
2	2484.5275	47.28	27.72	-23.54	51.45	74.00	22.55	144	288	Vertical
3	2486.035	45.66	27.72	-23.54	49.84	74.00	24.16	144	288	Vertical
4	2486.68	36.55	27.73	-23.54	40.73	54.00	13.27	144	288	Vertical

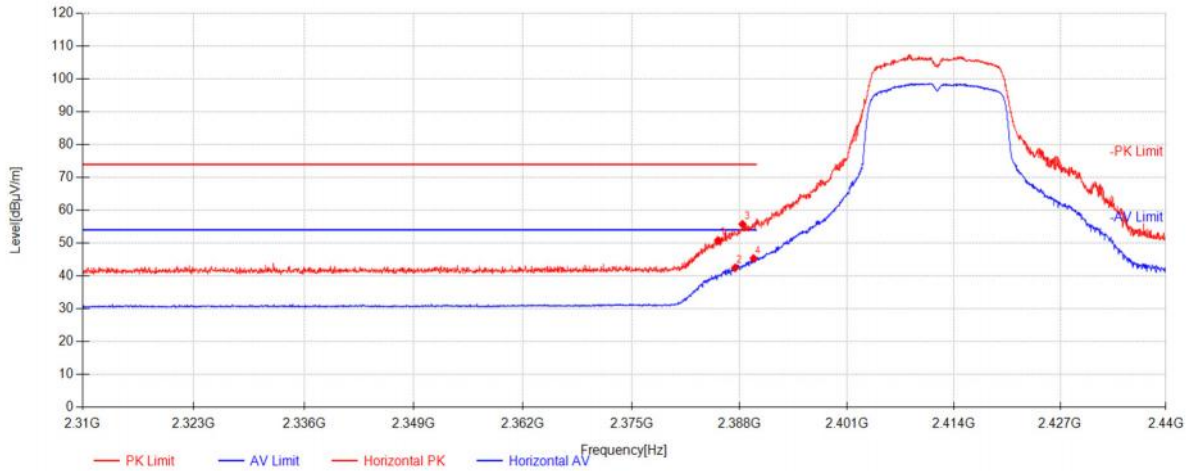


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802.11g_Channel 01



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	2385.4	46.99	27.43	-23.57	50.85	74.00	23.15	236	252	Horizontal
2	2387.4367	38.60	27.43	-23.57	42.46	54.00	11.54	236	252	Horizontal
3	2388.3467	51.92	27.43	-23.57	55.78	74.00	18.22	236	252	Horizontal
4	2389.69	41.50	27.43	-23.57	45.36	54.00	8.64	236	252	Horizontal



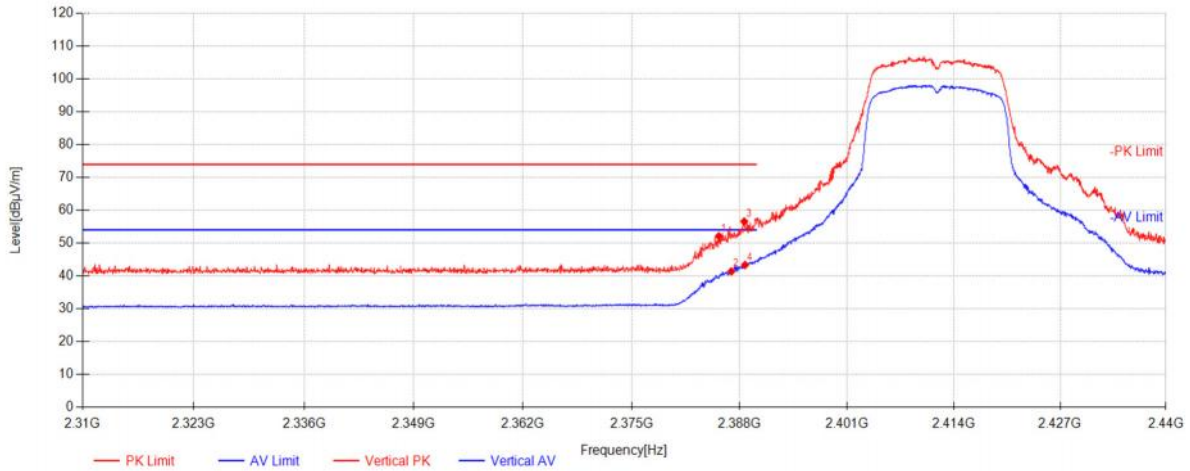
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802.11g_Channel 01



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	2385.4867	48.24	27.43	-23.57	52.10	74.00	21.90	230	126	Vertical
2	2387.0033	37.51	27.43	-23.57	41.37	54.00	12.63	230	126	Vertical
3	2388.5633	52.74	27.43	-23.57	56.60	74.00	17.40	230	126	Vertical
4	2388.65	39.47	27.43	-23.57	43.33	54.00	10.67	230	126	Vertical



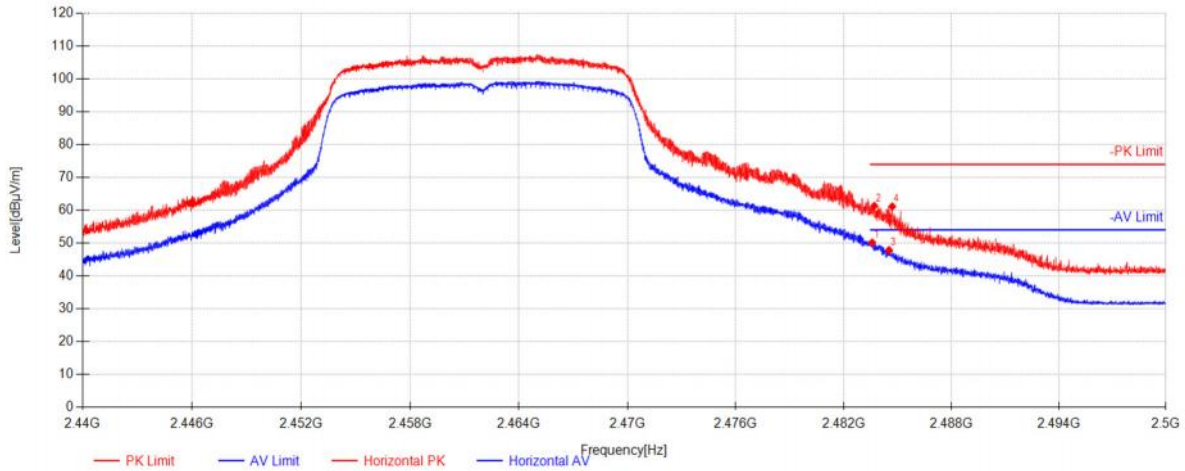
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802.11g_Channel 11



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	2483.59	45.99	27.72	-23.54	50.16	54.00	3.84	122	272	Horizontal
2	2483.71	57.18	27.72	-23.54	61.35	74.00	12.65	122	272	Horizontal
3	2484.5275	43.67	27.72	-23.54	47.84	54.00	6.16	122	272	Horizontal
4	2484.7075	56.97	27.72	-23.54	61.14	74.00	12.86	122	272	Horizontal

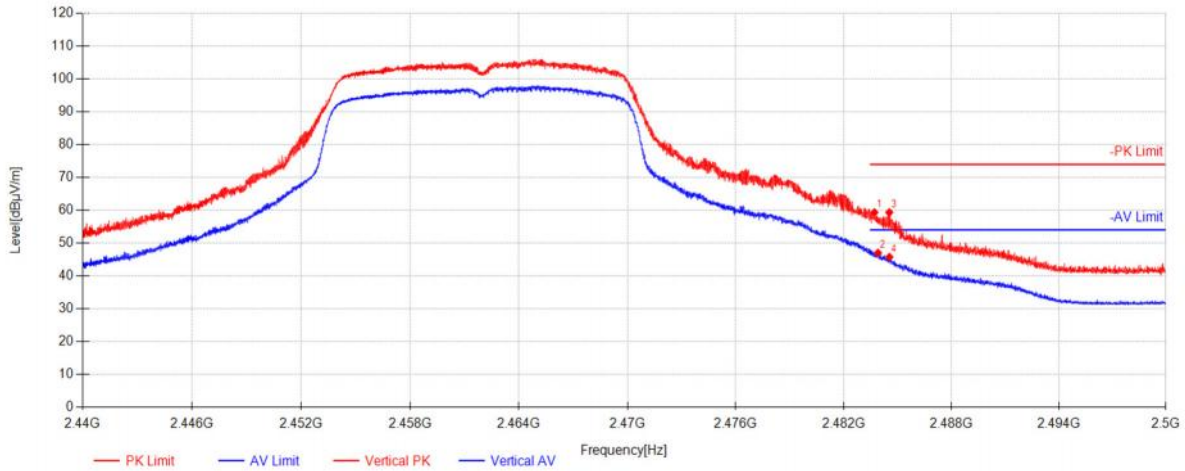


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802.11g_Channel 11



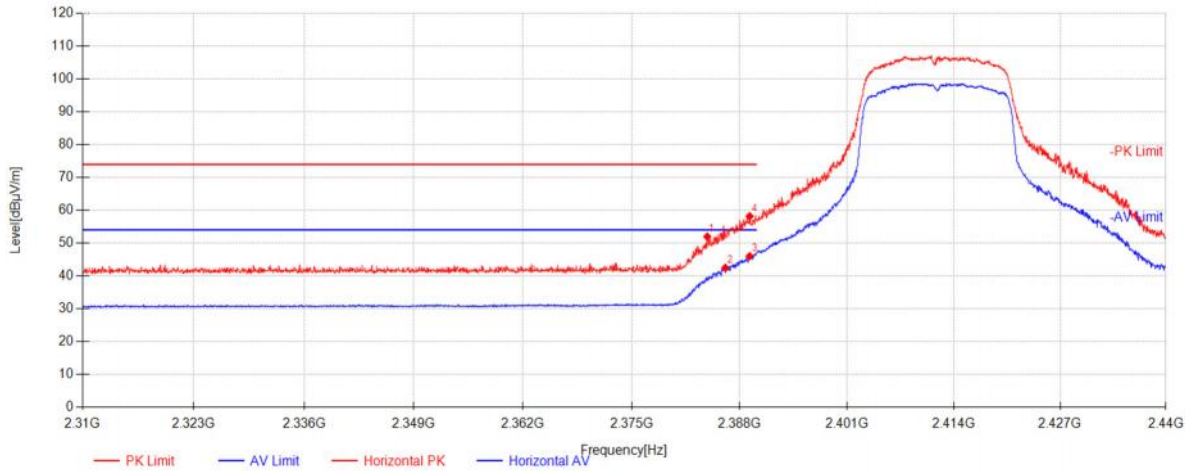
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7175	55.19	27.72	-23.54	59.36	74.00	14.64	142	85	Vertical
2	2483.9125	42.86	27.72	-23.54	47.03	54.00	6.97	142	85	Vertical
3	2484.5425	55.19	27.72	-23.54	59.36	74.00	14.64	142	85	Vertical
4	2484.55	41.60	27.72	-23.54	45.77	54.00	8.23	142	85	Vertical



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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.1	48.11	27.43	-23.57	51.97	74.00	22.03	205	257	Horizontal
2	2386.2667	38.61	27.43	-23.57	42.47	54.00	11.53	205	257	Horizontal
3	2389.2133	42.16	27.43	-23.57	46.02	54.00	7.98	205	257	Horizontal
4	2389.2133	54.34	27.43	-23.57	58.20	74.00	15.80	205	257	Horizontal



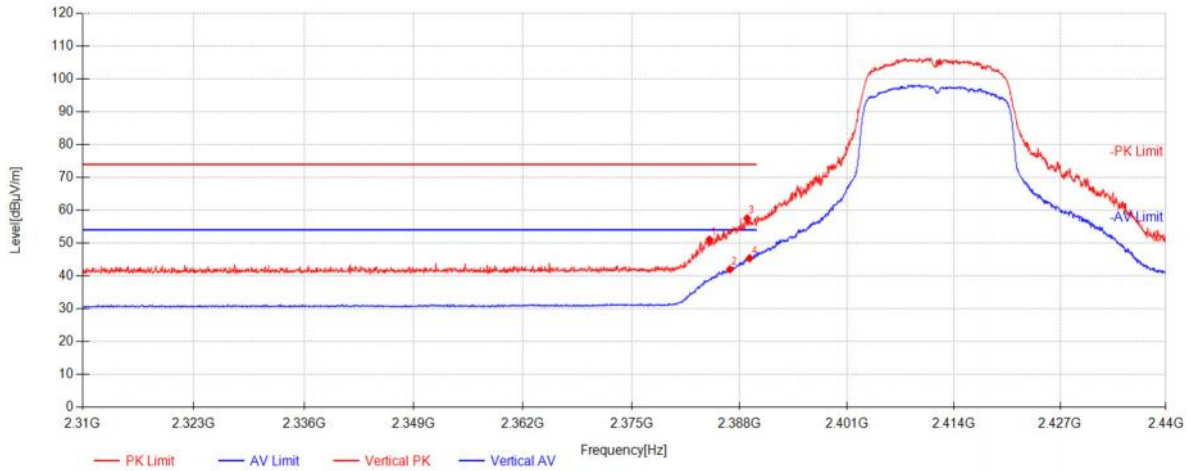
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802.11n20_Channel 01



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	2384.36	47.21	27.43	-23.57	51.07	74.00	22.93	133	282	Vertical
2	2386.83	38.13	27.43	-23.57	41.99	54.00	12.01	133	282	Vertical
3	2388.91	53.70	27.43	-23.57	57.56	74.00	16.44	133	282	Vertical
4	2389.2133	41.53	27.43	-23.57	45.39	54.00	8.61	133	282	Vertical



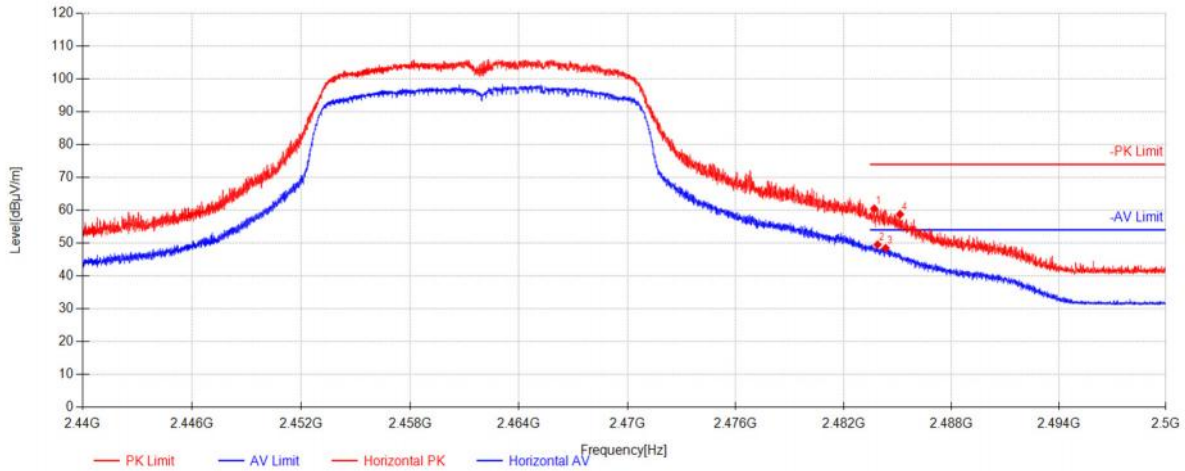
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802.11n20_Channel 11



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	2483.7025	56.33	27.72	-23.54	60.50	74.00	13.50	216	273	Horizontal
2	2483.89	45.38	27.72	-23.54	49.55	54.00	4.45	216	273	Horizontal
3	2484.34	44.32	27.72	-23.54	48.49	54.00	5.51	216	273	Horizontal
4	2485.1425	54.62	27.72	-23.54	58.80	74.00	15.20	216	273	Horizontal

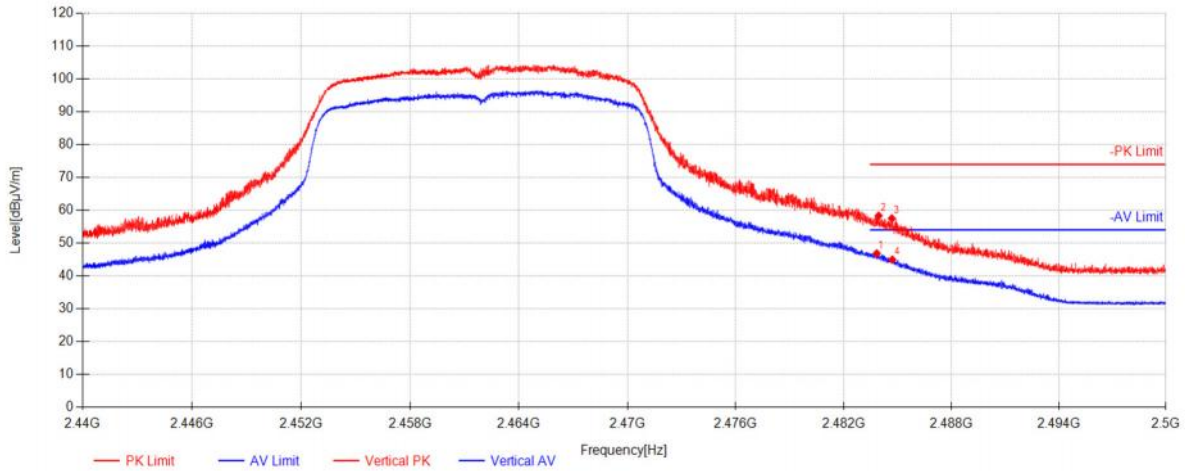


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.845	42.69	27.72	-23.54	46.86	54.00	7.14	196	102	Vertical
2	2483.95	54.18	27.72	-23.54	58.35	74.00	15.65	196	102	Vertical
3	2484.685	53.35	27.72	-23.54	57.52	74.00	16.48	196	102	Vertical
4	2484.715	40.80	27.72	-23.54	44.97	54.00	9.03	196	102	Vertical

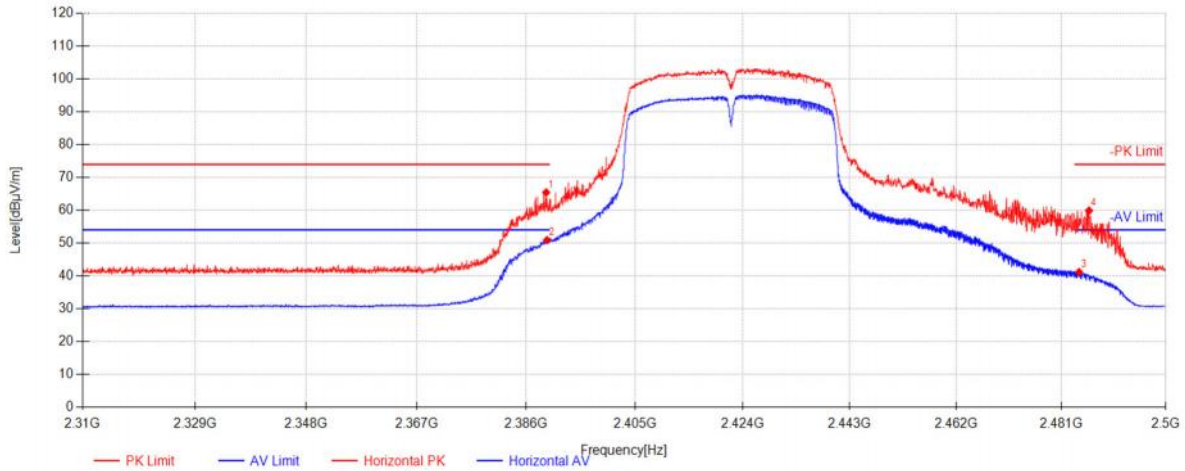


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802.11n40_Channel 03



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	2389.4733	61.59	27.43	-23.57	65.45	74.00	8.55	213	338	Horizontal
2	2389.6033	47.04	27.43	-23.57	50.90	54.00	3.10	213	338	Horizontal
3	2484.22	37.01	27.72	-23.54	41.18	54.00	12.82	213	338	Horizontal
4	2486.02	55.74	27.72	-23.54	59.92	74.00	14.08	213	338	Horizontal



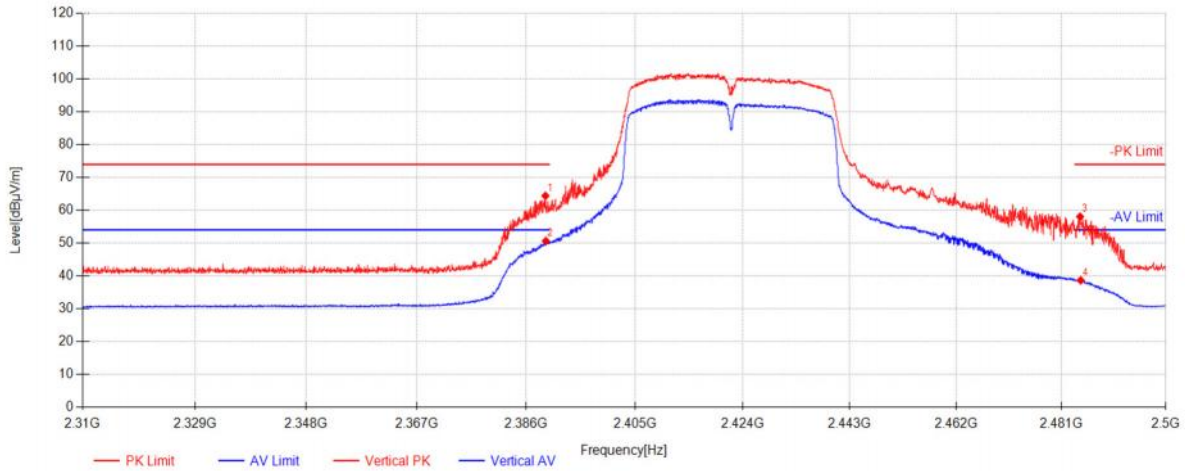
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 Wireless Laboratory

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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	2389.3433	60.55	27.43	-23.57	64.41	74.00	9.59	285	144	Vertical
2	2389.43	46.79	27.43	-23.57	50.65	54.00	3.35	285	144	Vertical
3	2484.4	53.91	27.72	-23.54	58.08	74.00	15.92	285	144	Vertical
4	2484.52	34.48	27.72	-23.54	38.65	54.00	15.35	285	144	Vertical



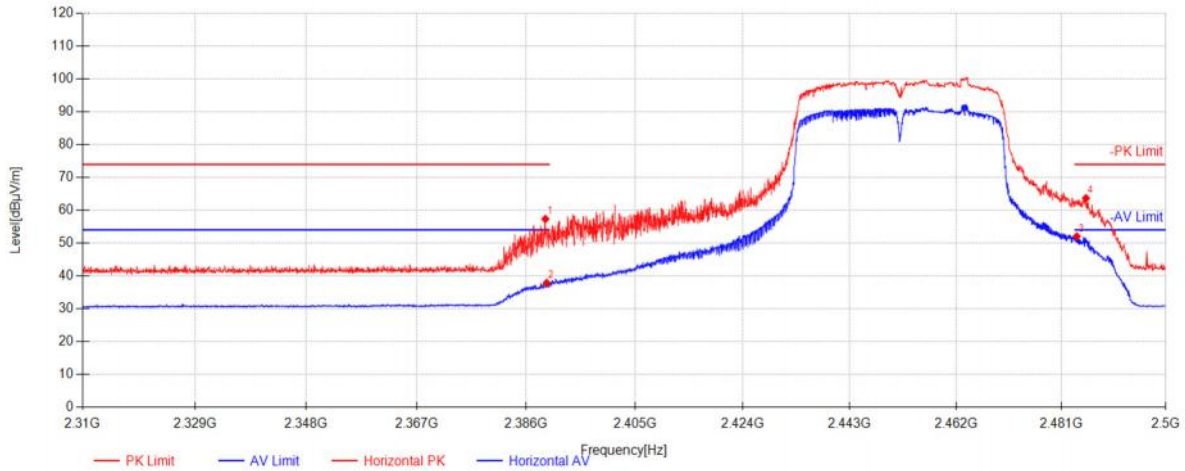
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802.11n40_Channel 09



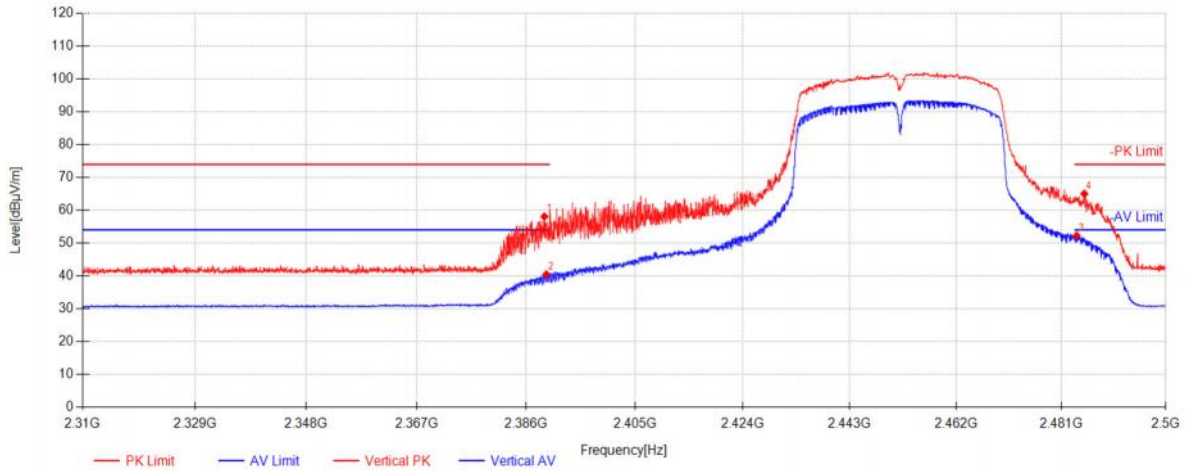
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3433	53.49	27.43	-23.57	57.35	74.00	16.65	128	336	Horizontal
2	2389.56	34.01	27.43	-23.57	37.87	54.00	16.13	128	336	Horizontal
3	2483.8	47.86	27.72	-23.54	52.03	54.00	1.97	128	336	Horizontal
4	2485.48	59.51	27.72	-23.54	63.69	74.00	10.31	128	336	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	2389.17	54.25	27.43	-23.57	58.11	74.00	15.89	123	289	Vertical
2	2389.5167	36.60	27.43	-23.57	40.46	54.00	13.54	123	289	Vertical
3	2483.8	48.10	27.72	-23.54	52.27	54.00	1.73	123	289	Vertical
4	2485.18	60.84	27.72	-23.54	65.02	74.00	8.98	123	289	Vertical

Remark:

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

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

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

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

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

---End of Report---



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