

Report No.: SEWM2208000146RG07
 Rev.: 01
 Page: 1 of 149

TEST REPORT

Application No.: SEWM2208000146RG
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description: Smart Phone
Model No.: SL004T
Trade Mark: koobee
FCC ID: 2A28USL004T
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/08/15
Date of Test: 2022/08/19 to 2022/09/05
Date of Issue: 2022/09/14

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


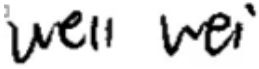


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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/09/14		Original

Prepared By		 <hr/> (Tizy Song) / 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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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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3 General Information

3.1 Details of Client

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Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, 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:	Tizzy Song, Lves Cheng

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:	Smart Phone	
Model No.:	SL004T	
Trade Mark:	koobee	
Hardware Version:	1.0	
Software Version:	SL004TT10004	
IMEI:	RF Conducted	354795200004635
	RSE & AC power line	354795200005764
		354795200005701
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain:	1.6dBi (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				
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 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
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 integrated and no consideration of replacement. The best case gain of the antenna is 1.6dBi.*</p> <p>*Note: The antenna gain are derived from the gain information report provided by the manufacturer. 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.</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>



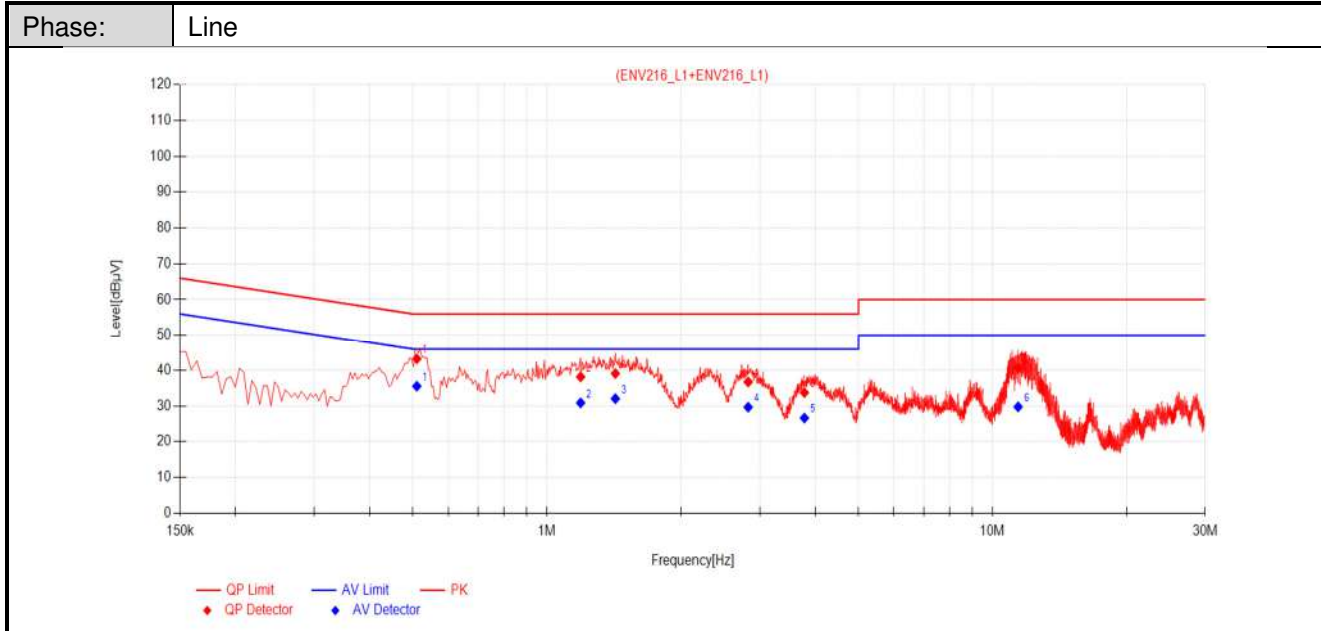
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Measurement Data

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

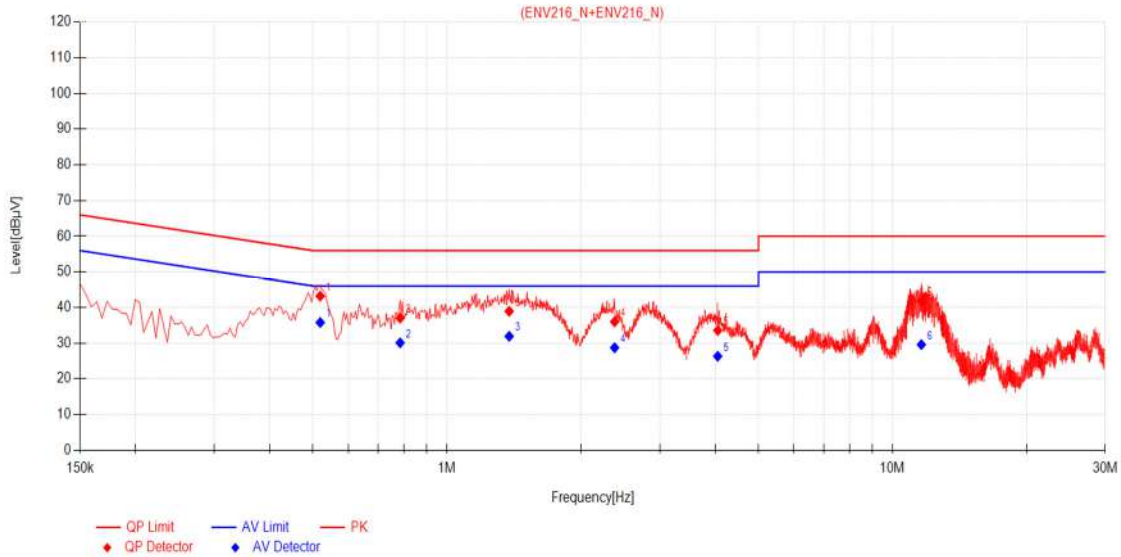
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5100	10.61	32.62	43.23	56.00	12.77	24.93	35.54	46.00	10.46	PASS
2	1.1895	10.76	27.41	38.17	56.00	17.83	20.12	30.88	46.00	15.12	PASS
3	1.4235	10.79	28.31	39.10	56.00	16.90	21.27	32.06	46.00	13.94	PASS
4	2.8275	10.67	26.07	36.74	56.00	19.26	19.01	29.68	46.00	16.32	PASS
5	3.7815	10.72	23.04	33.76	56.00	22.24	15.92	26.64	46.00	19.36	PASS
6	11.4135	10.60	30.10	40.70	60.00	19.30	19.16	29.76	50.00	20.24	PASS

Remark:

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



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	0.5190	10.79	32.38	43.17	56.00	12.83	24.98	35.77	46.00	10.23	PASS
2	0.7845	10.80	26.21	37.01	56.00	18.99	19.29	30.09	46.00	15.91	PASS
3	1.3785	10.77	28.16	38.93	56.00	17.07	21.14	31.91	46.00	14.09	PASS
4	2.3775	10.78	25.21	35.99	56.00	20.01	17.94	28.72	46.00	17.28	PASS
5	4.0515	10.74	22.81	33.55	56.00	22.45	15.58	26.32	46.00	19.68	PASS
6	11.6070	10.65	31.09	41.74	60.00	18.26	18.94	29.59	50.00	20.41	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**

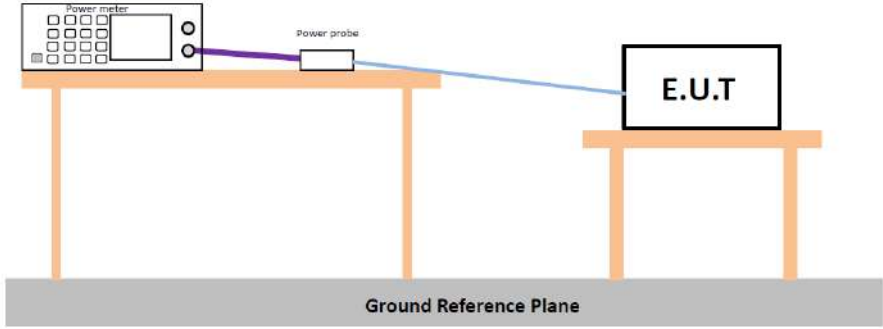


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4.4 Conducted Output Power

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	



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4.9 Radiated Spurious Emissions

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

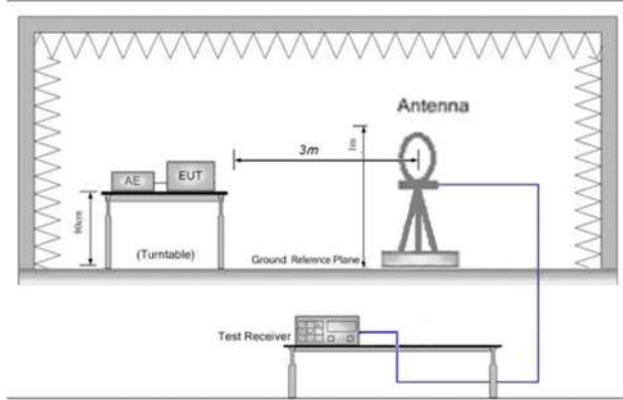


Figure 1. Below 30MHz

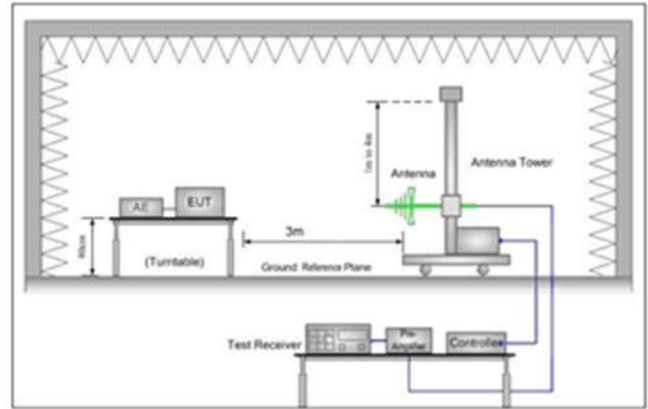


Figure 2. 30MHz to 1GHz

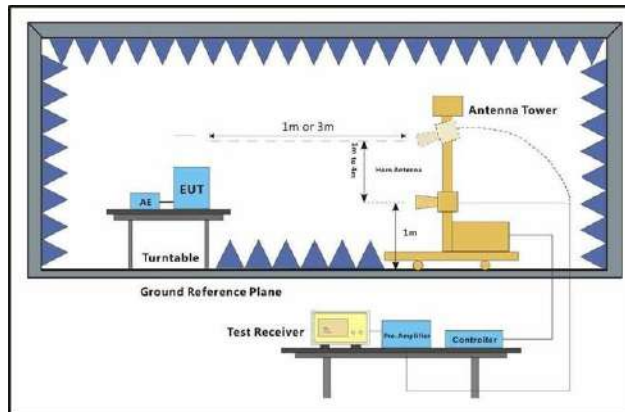


Figure 3. Above 1 GHz

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



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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:

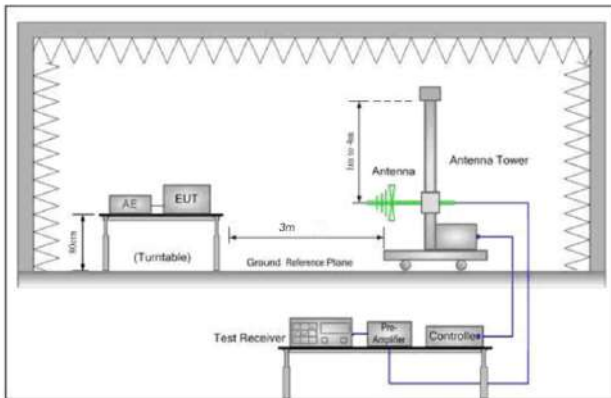


Figure 1. 30MHz to 1GHz

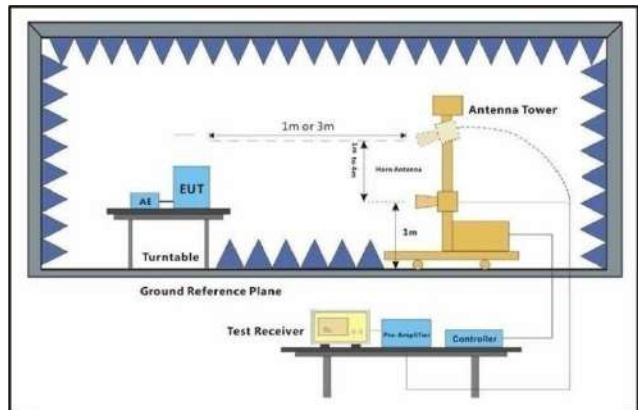


Figure 2. Above 1 GHz



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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	KEYSIGHT	N9020A	SUWI-01-02-07	2021/12/22	2022/12/21
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
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
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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

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
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
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 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
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-RSE 4.0.0.1	SUWI-02-09-06	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	10.12	2406.92	2417.04	≥0.5	PASS
		2437	8.64	2432.92	2441.56	≥0.5	PASS
		2462	9.64	2456.92	2466.56	≥0.5	PASS
11G	Ant2	2412	13.92	2404.40	2418.32	≥0.5	PASS
		2417	15.24	2409.36	2424.60	≥0.5	PASS
		2437	15.76	2429.40	2445.16	≥0.5	PASS
		2462	15.80	2453.80	2469.60	≥0.5	PASS
11N20SISO	Ant2	2412	14.32	2404.36	2418.68	≥0.5	PASS
		2417	15.24	2409.36	2424.60	≥0.5	PASS
		2437	15.52	2429.40	2444.92	≥0.5	PASS
		2457	15.76	2448.80	2464.56	≥0.5	PASS
		2462	16.40	2453.20	2469.60	≥0.5	PASS
11N40SISO	Ant2	2422	35.76	2404.40	2440.16	≥0.5	PASS
		2427	35.68	2409.32	2445.00	≥0.5	PASS
		2437	32.80	2421.80	2454.60	≥0.5	PASS
		2452	35.28	2434.32	2469.60	≥0.5	PASS



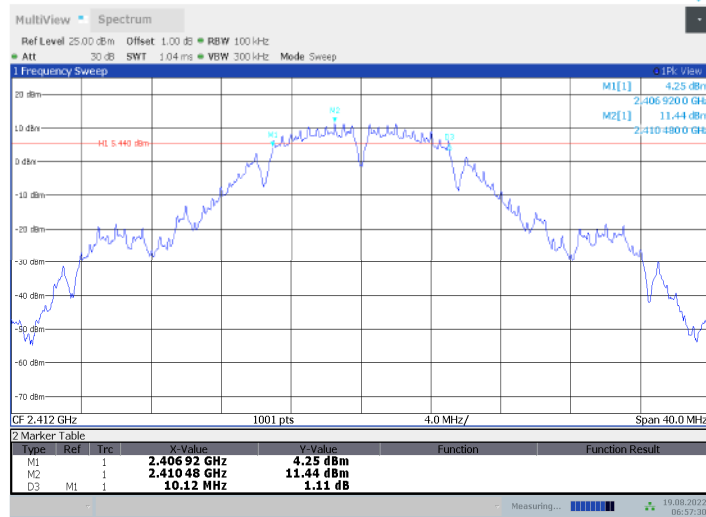
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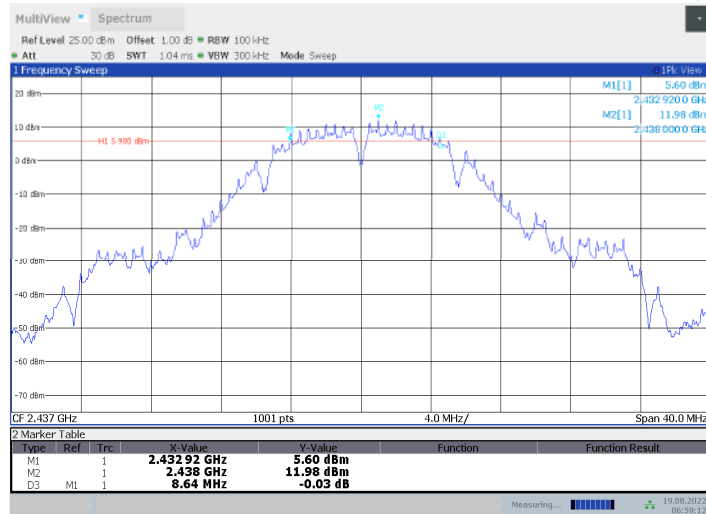
Test Graphs

11B Ant2 2412



06:57:31 19.08.2022

11B Ant2 2437



06:59:13 19.08.2022



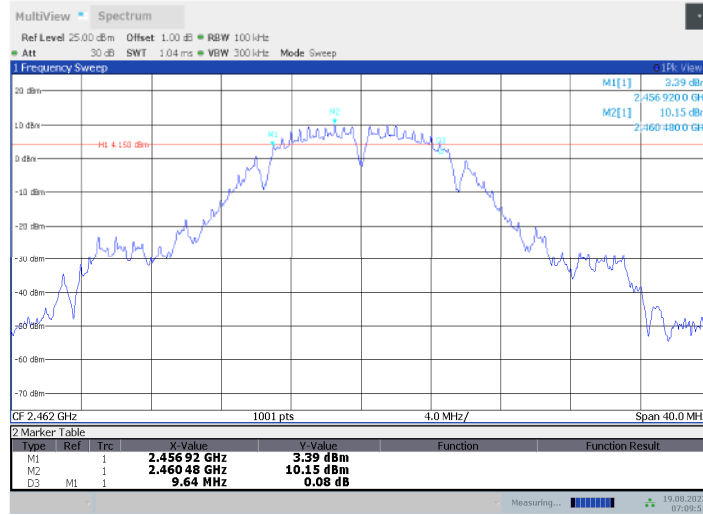
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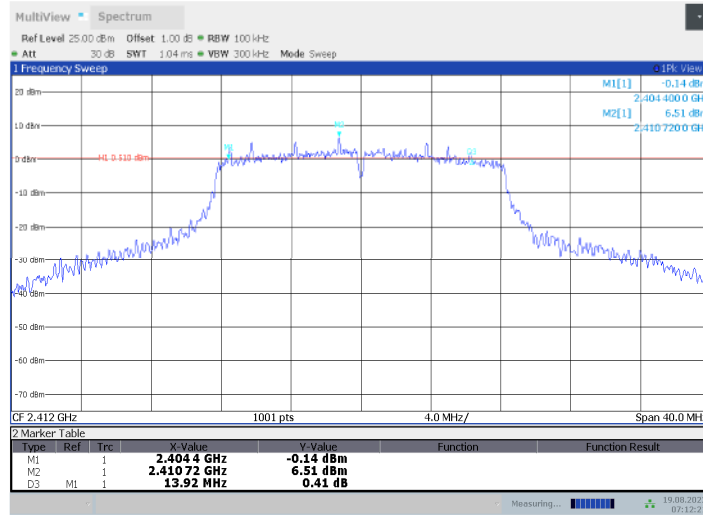
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11B_Ant2_2462



07:09:51 19.08.2022

11G_Ant2_2412



07:12:21 19.08.2022

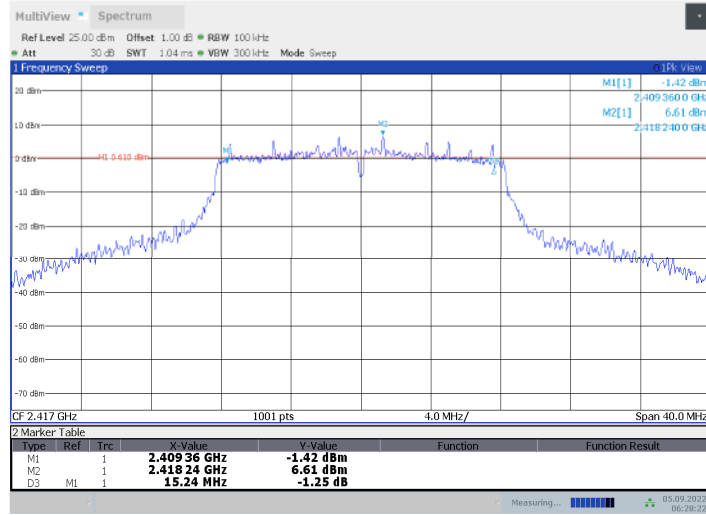


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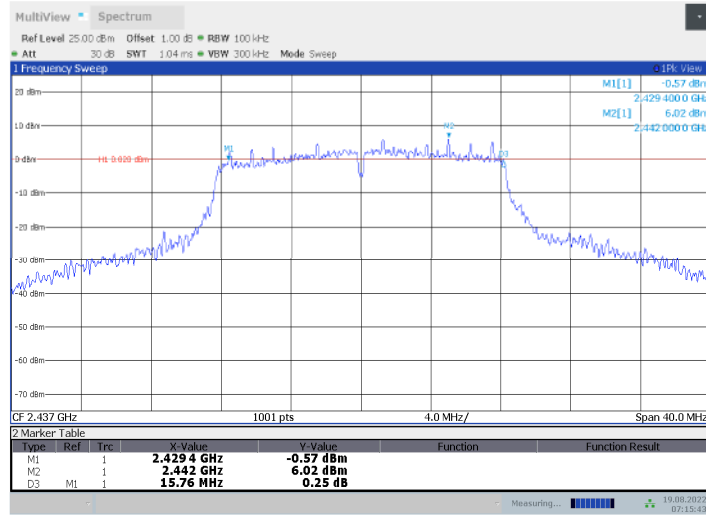
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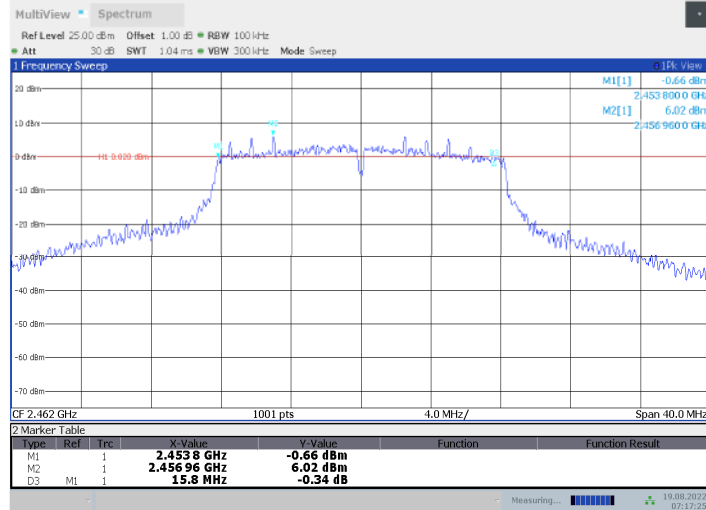
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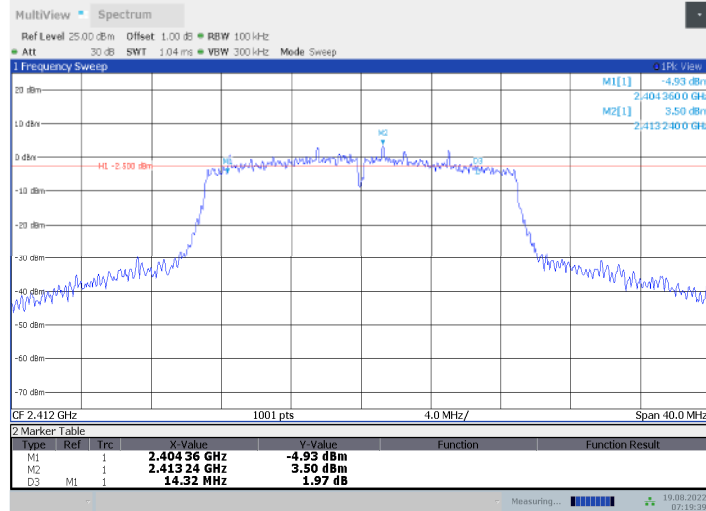
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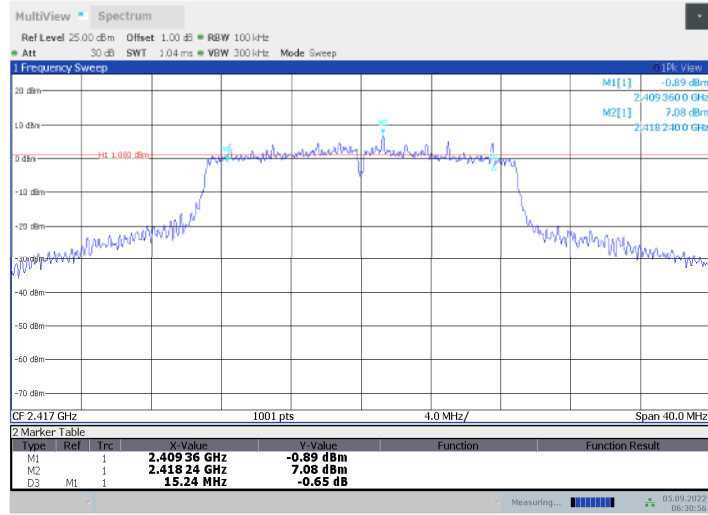
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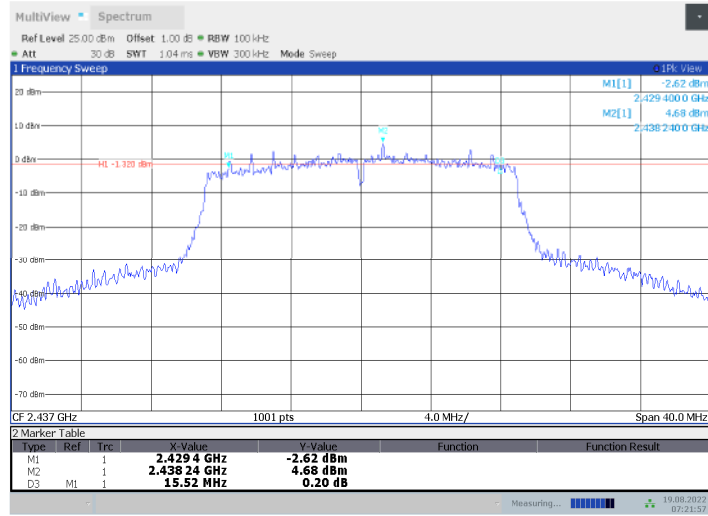
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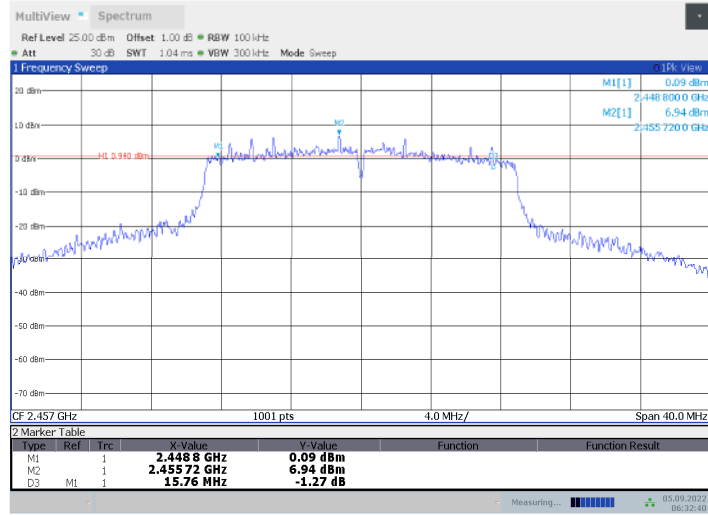
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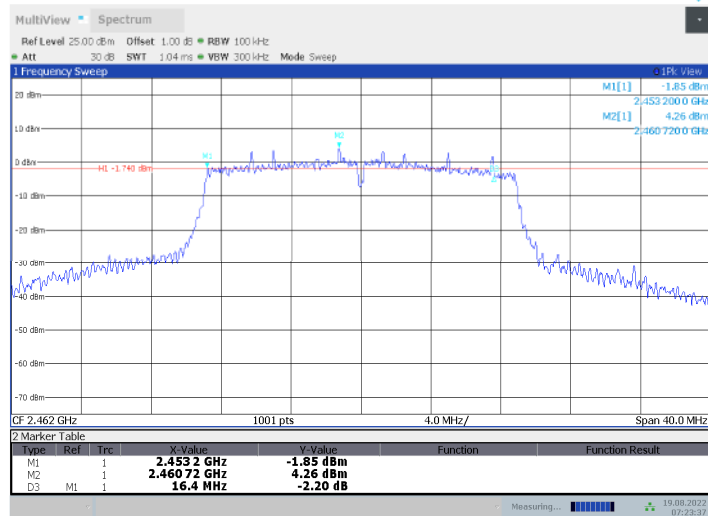
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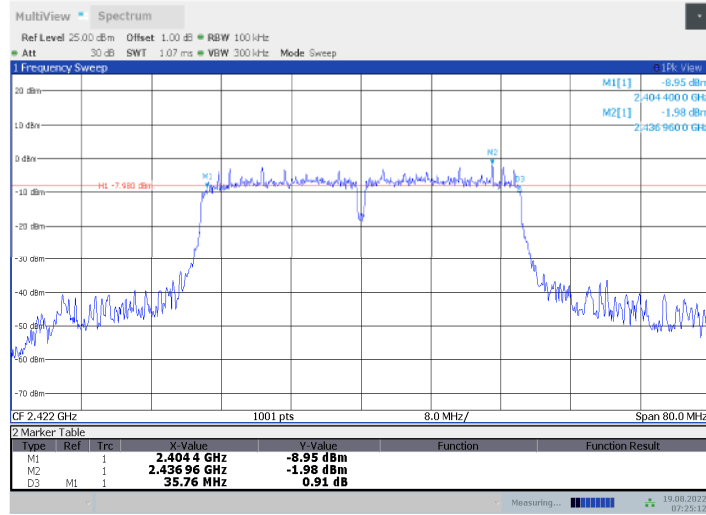


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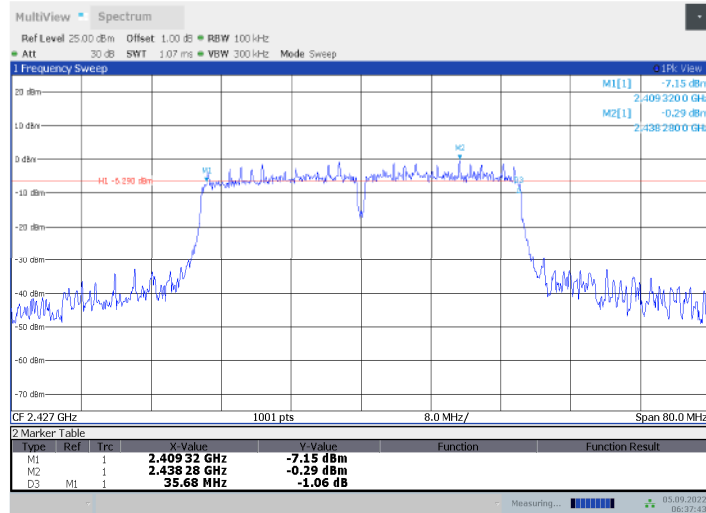
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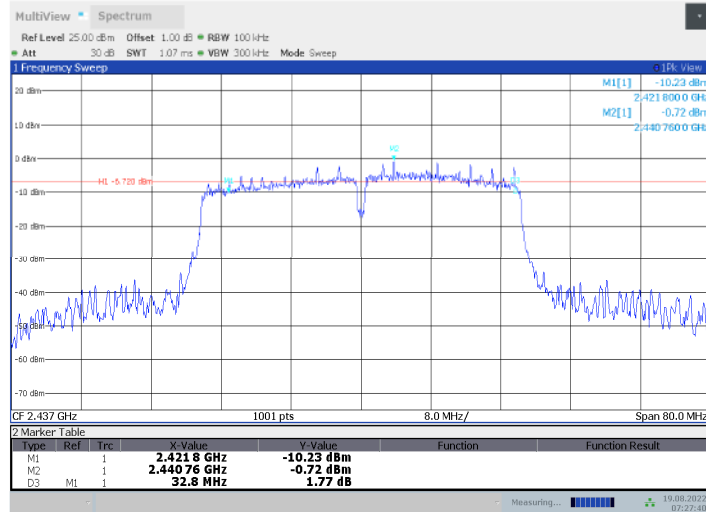


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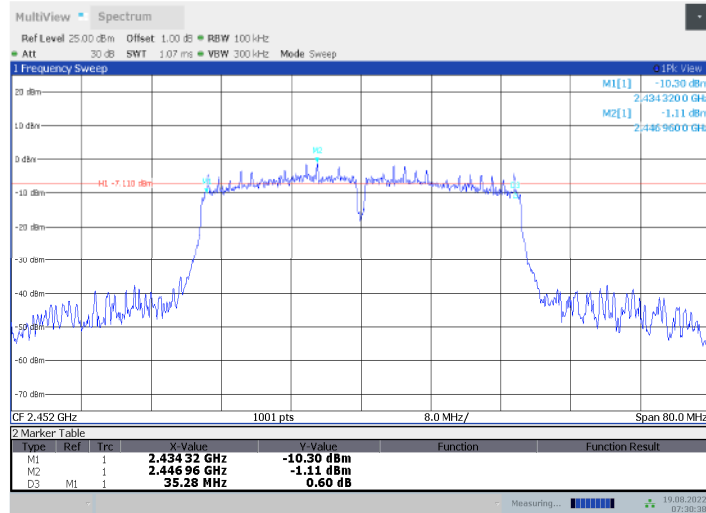
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant2	2412	13.88	2404.928	2418.808	Reporting only
		2437	13.137	2430.593	2443.731	
		2462	13.12	2455.322	2468.442	
11G	Ant2	2412	17.077	2403.437	2420.514	
		2417	17.194	2408.306	2425.500	
		2437	17.104	2428.541	2445.645	
		2462	17.428	2453.147	2470.575	
11N20SISO	Ant2	2412	17.736	2403.117	2420.853	
		2417	18.075	2407.879	2425.954	
		2437	17.833	2428.174	2446.007	
		2457	18.067	2447.835	2465.902	
		2462	17.914	2452.956	2470.869	
11N40SISO	Ant2	2422	36.316	2403.948	2440.265	
		2427	36.374	2408.893	2445.267	
		2437	36.045	2419.068	2455.112	
		2452	35.833	2434.061	2469.893	



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Test Graphs



11B Ant2 2437

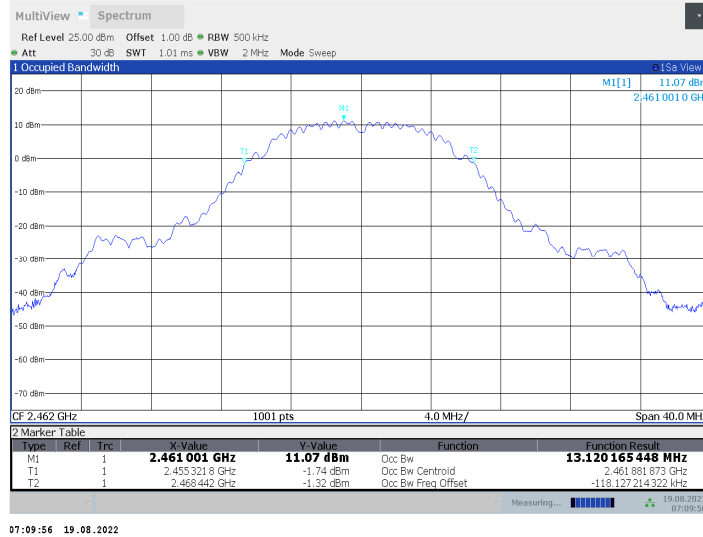


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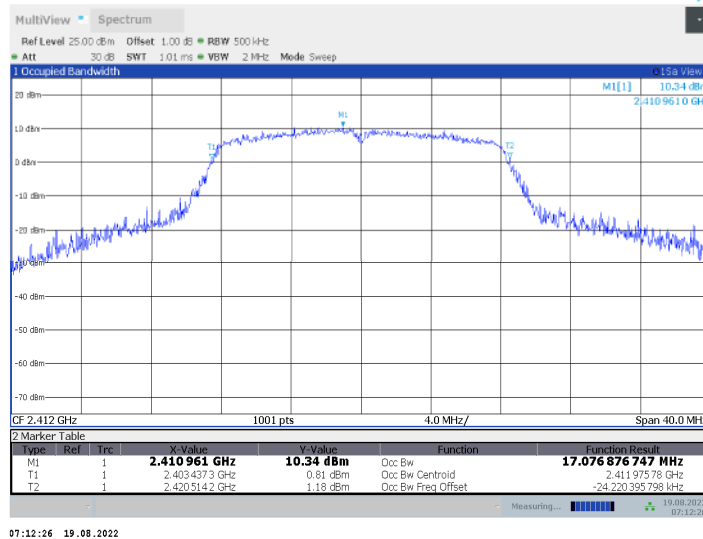
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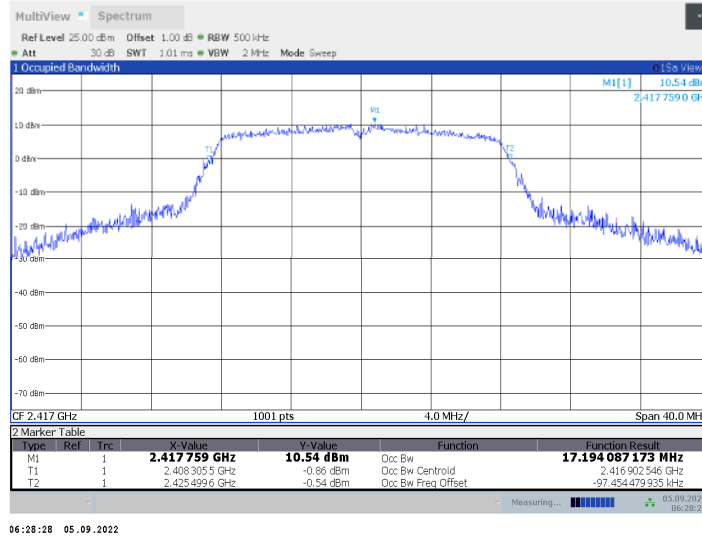


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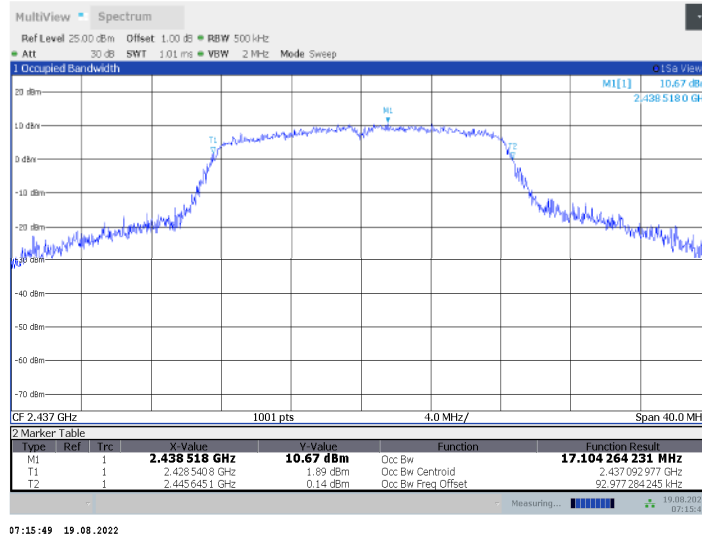
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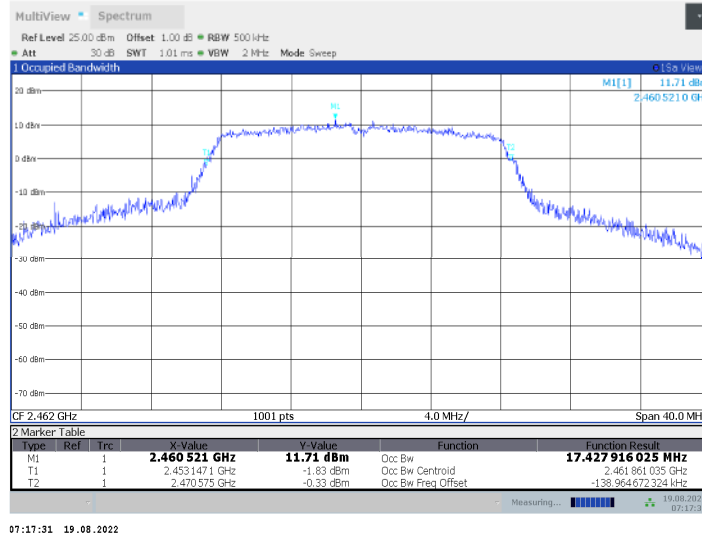


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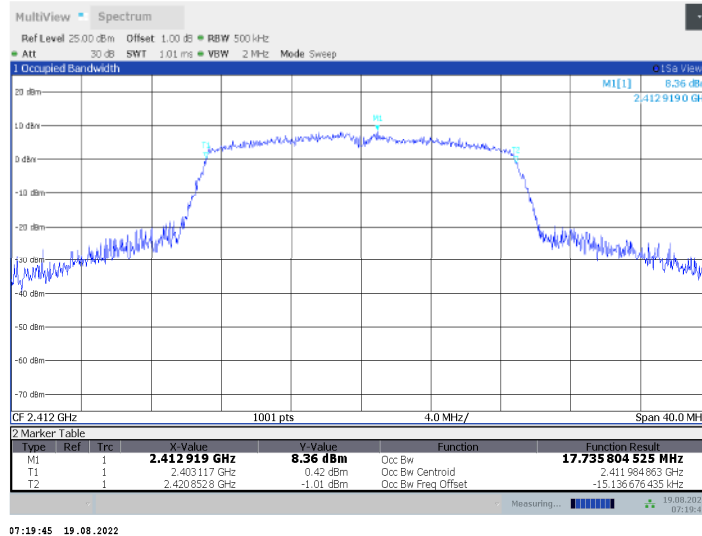
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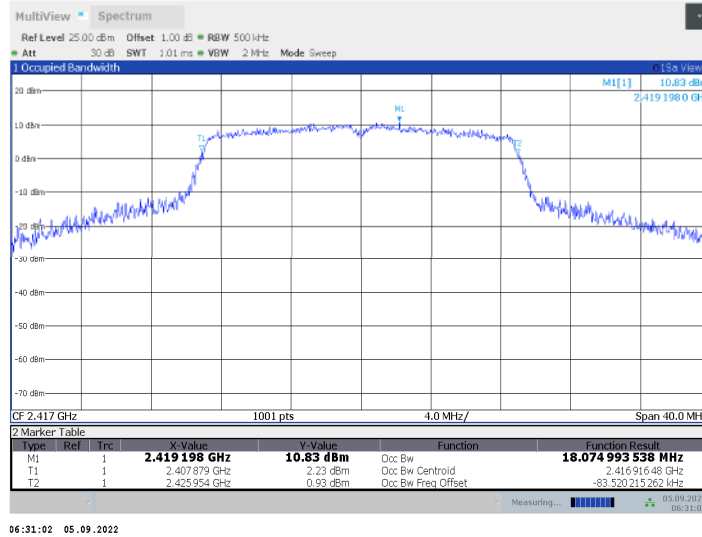


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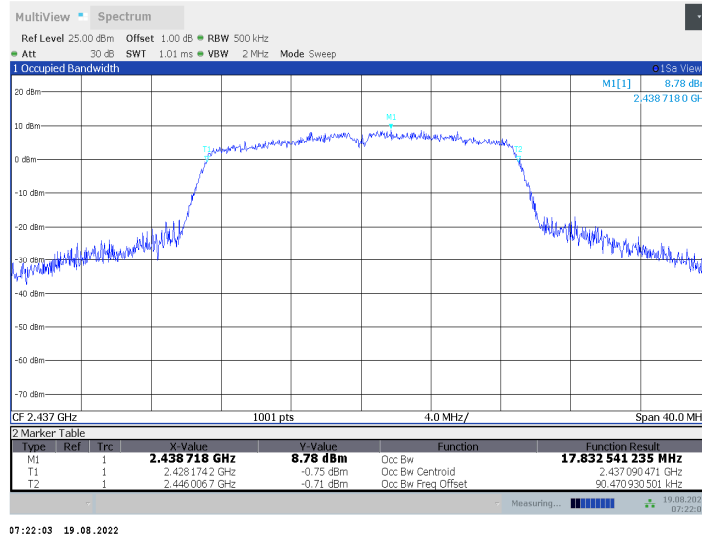
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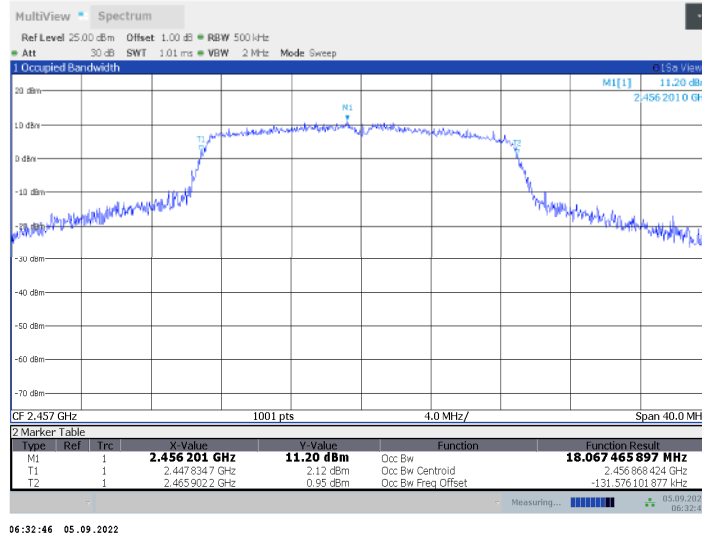
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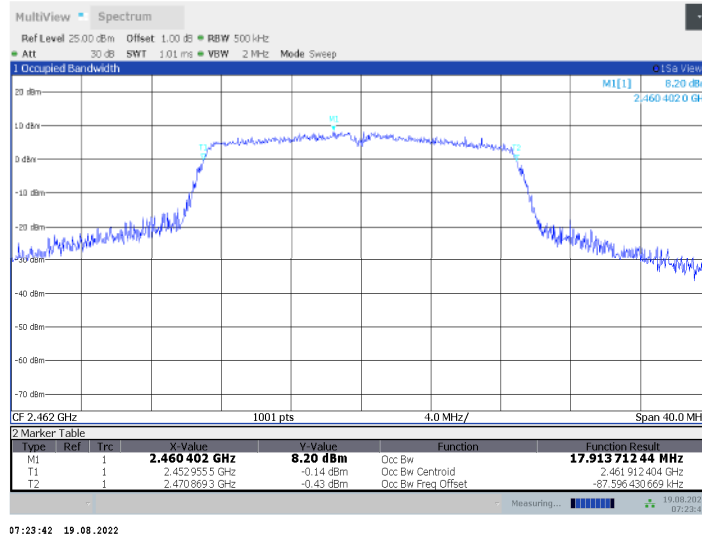
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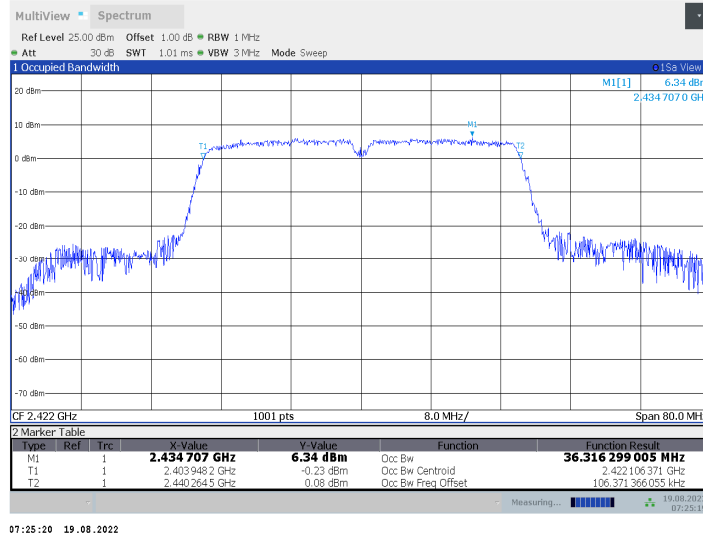


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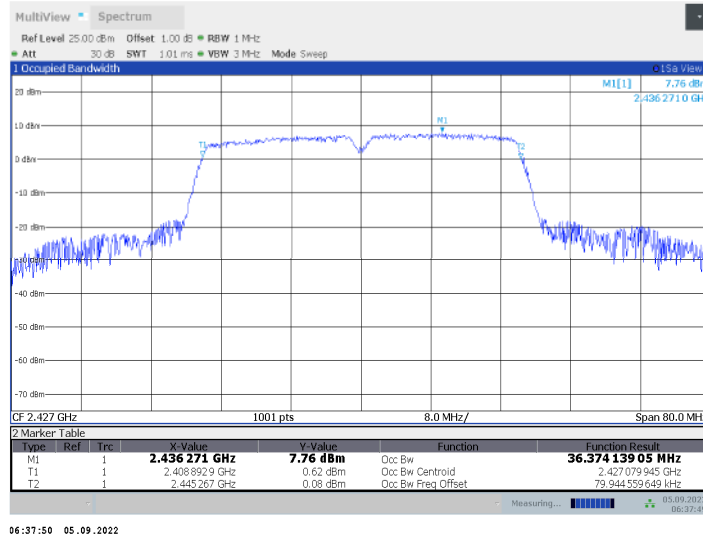
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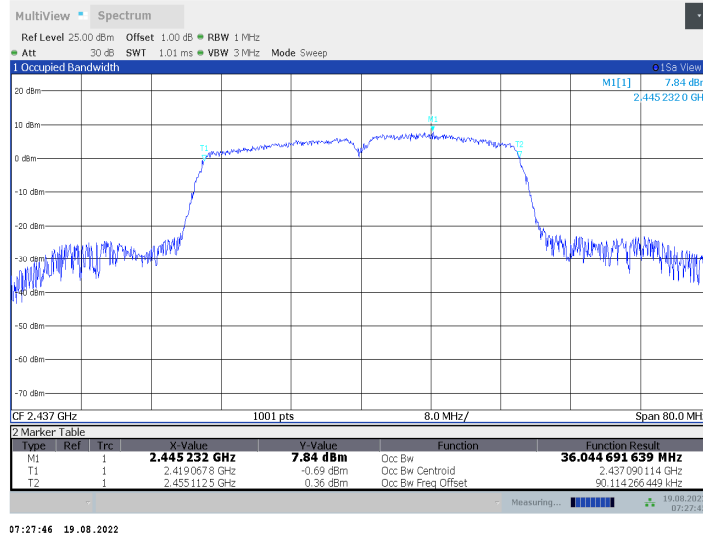


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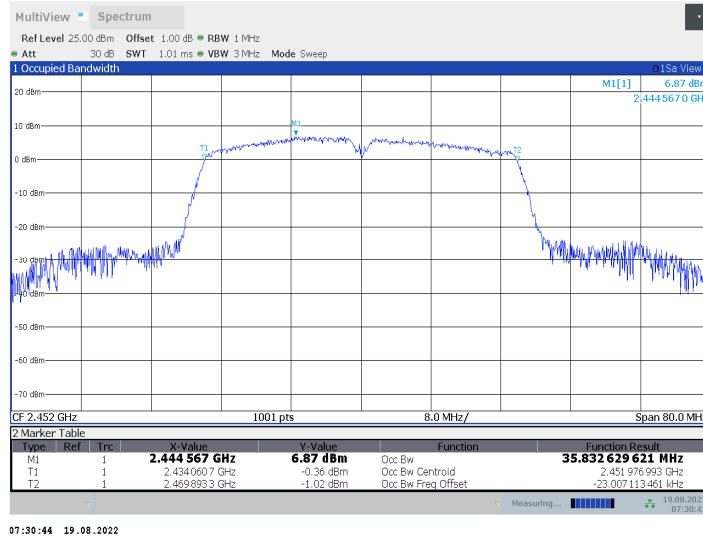
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**Maximum conducted output power
 Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant2	2412	22.06	≤30.00	PASS
		2437	22.64	≤30.00	PASS
		2462	22.50	≤30.00	PASS
11G	Ant2	2412	22.88	≤30.00	PASS
		2417	23.45	≤30.00	PASS
		2437	23.84	≤30.00	PASS
		2462	23.81	≤30.00	PASS
11N20SISO	Ant2	2412	21.88	≤30.00	PASS
		2417	22.87	≤30.00	PASS
		2437	22.95	≤30.00	PASS
		2457	22.85	≤30.00	PASS
		2462	21.45	≤30.00	PASS
11N40SISO	Ant2	2422	21.87	≤30.00	PASS
		2427	22.43	≤30.00	PASS
		2437	22.39	≤30.00	PASS
		2452	22.46	≤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	-2.6	≤8.00	PASS
		2437	-2.19	≤8.00	PASS
		2462	-2.56	≤8.00	PASS
11G	Ant2	2412	-7.67	≤8.00	PASS
		2417	-7.46	≤8.00	PASS
		2437	-7.58	≤8.00	PASS
		2462	-7.69	≤8.00	PASS
11N20SISO	Ant2	2412	-8.52	≤8.00	PASS
		2417	-7.8	≤8.00	PASS
		2437	-7.5	≤8.00	PASS
		2457	-8.08	≤8.00	PASS
		2462	-7.59	≤8.00	PASS
11N40SISO	Ant2	2422	-16.75	≤8.00	PASS
		2427	-14.75	≤8.00	PASS
		2437	-15.47	≤8.00	PASS
		2452	-16.2	≤8.00	PASS



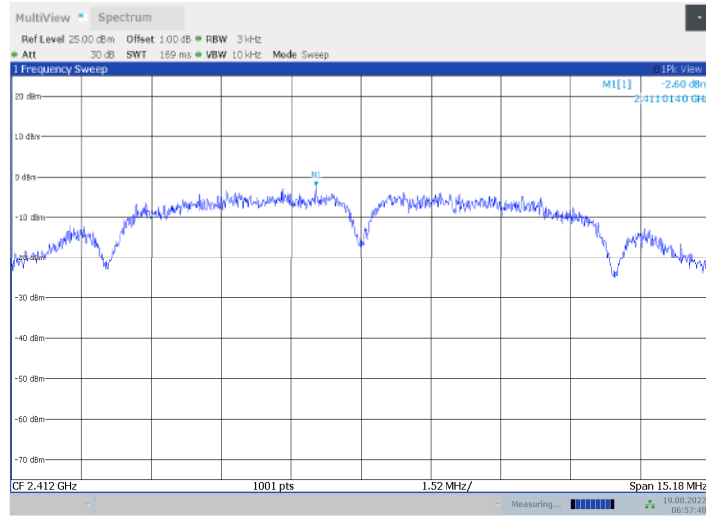
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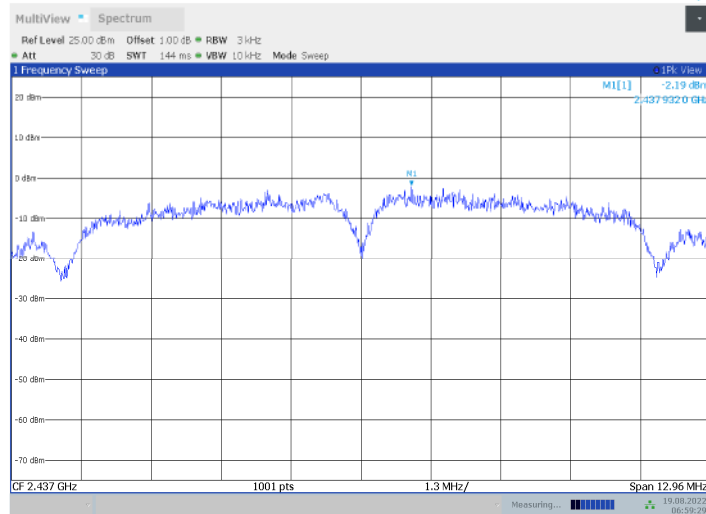
Test Graphs

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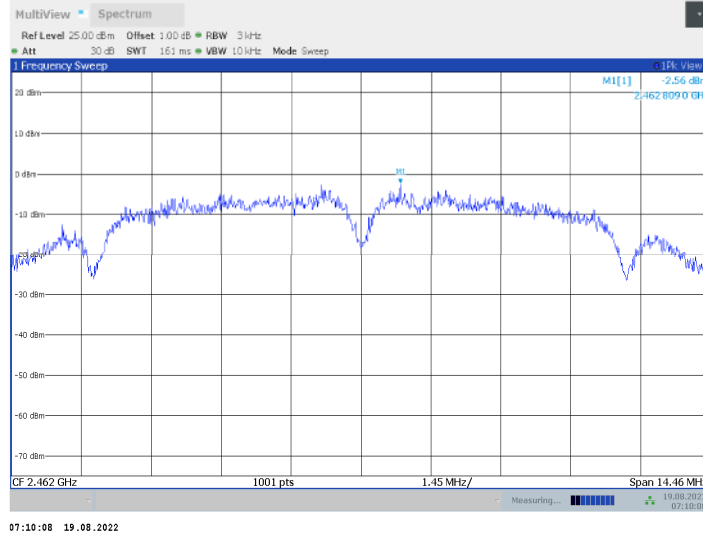


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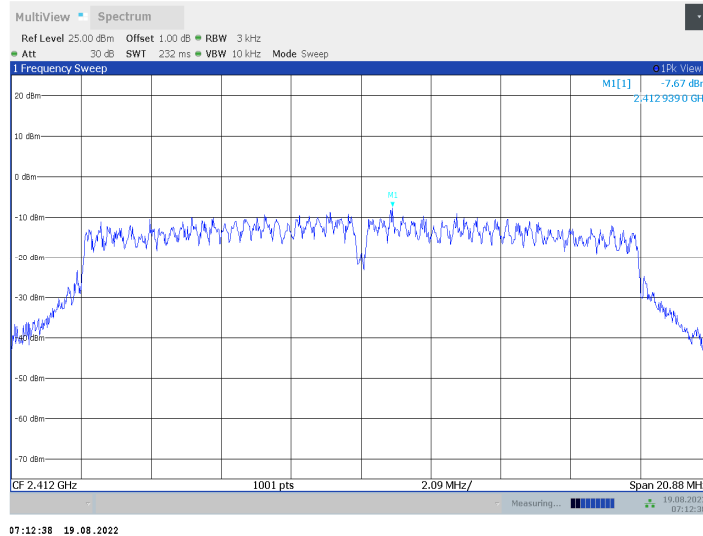


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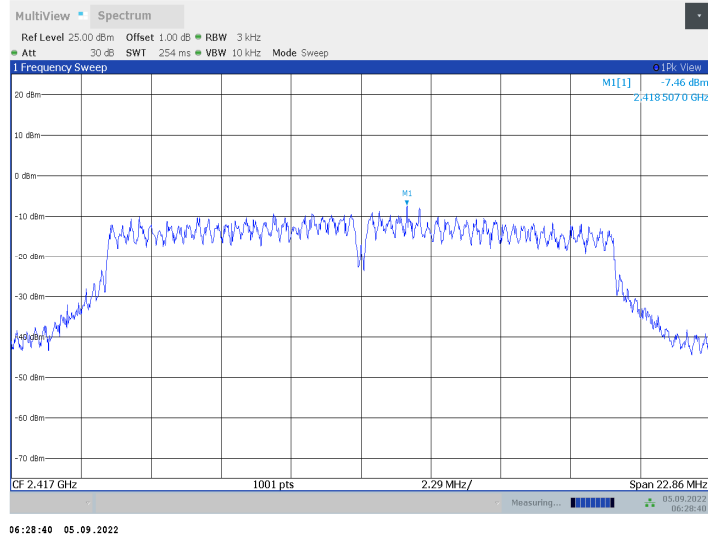
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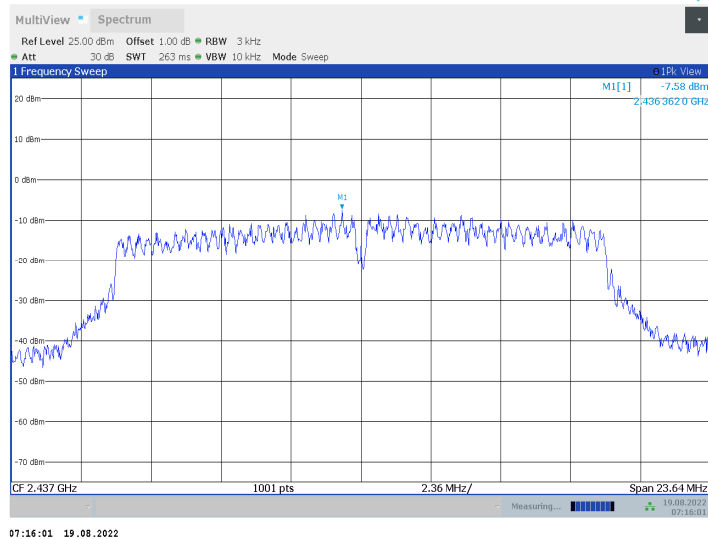
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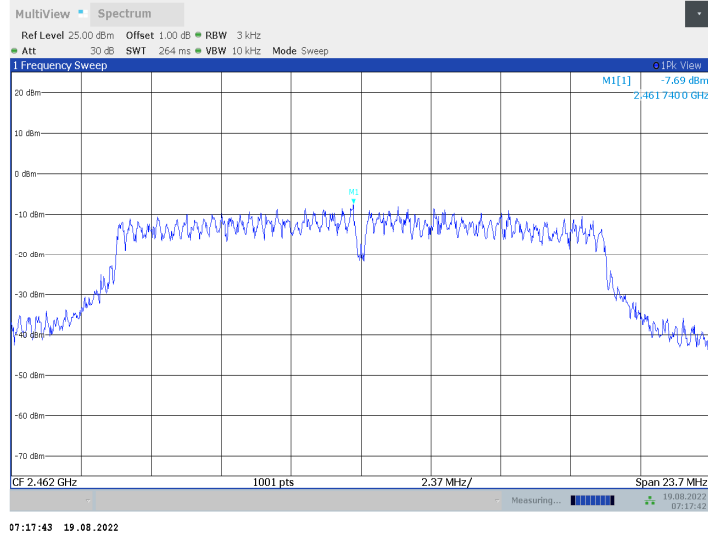


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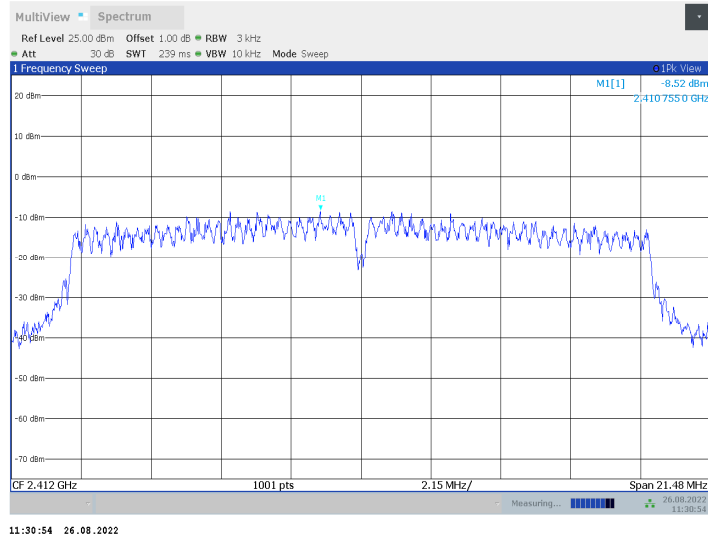
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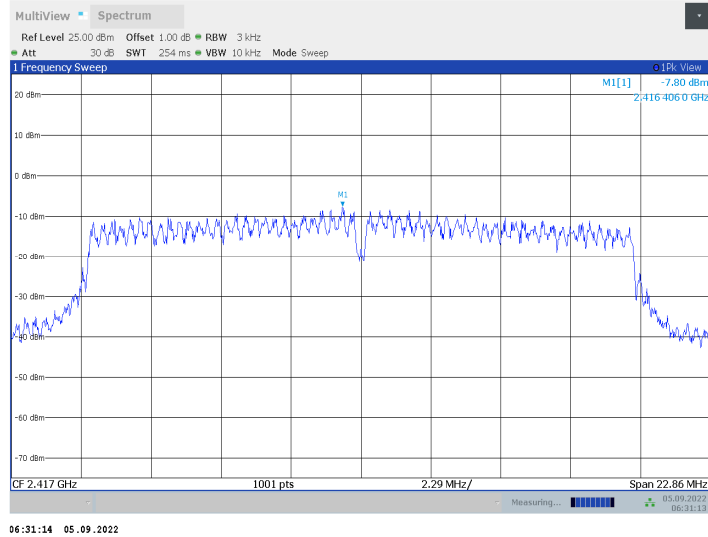
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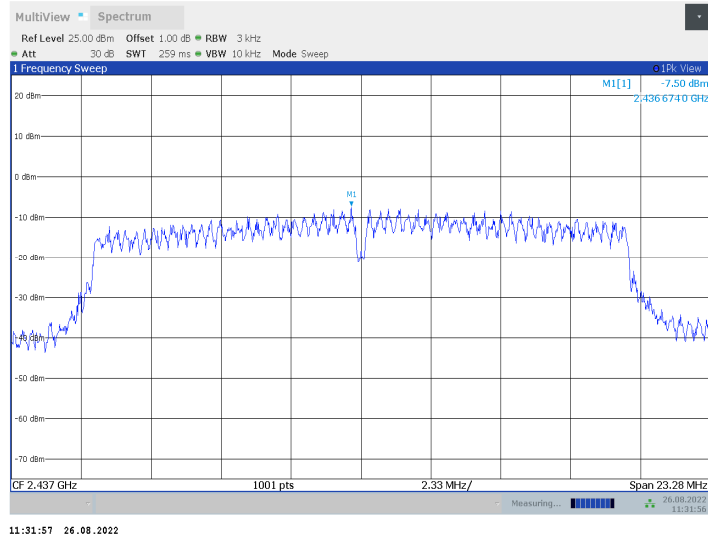
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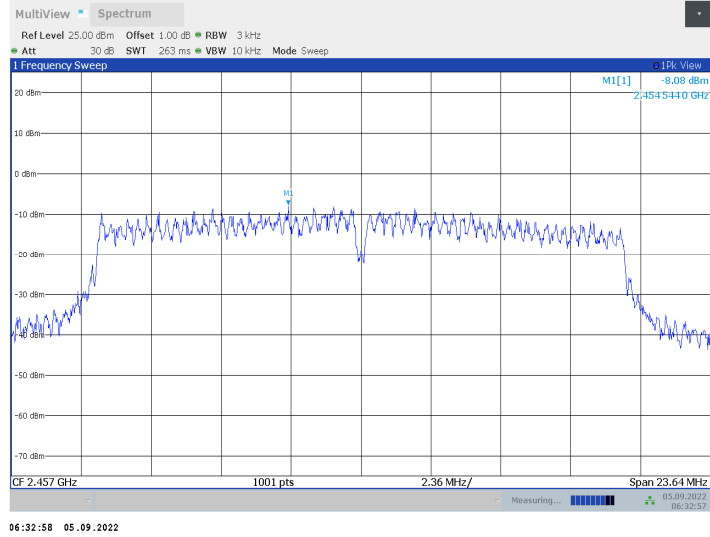


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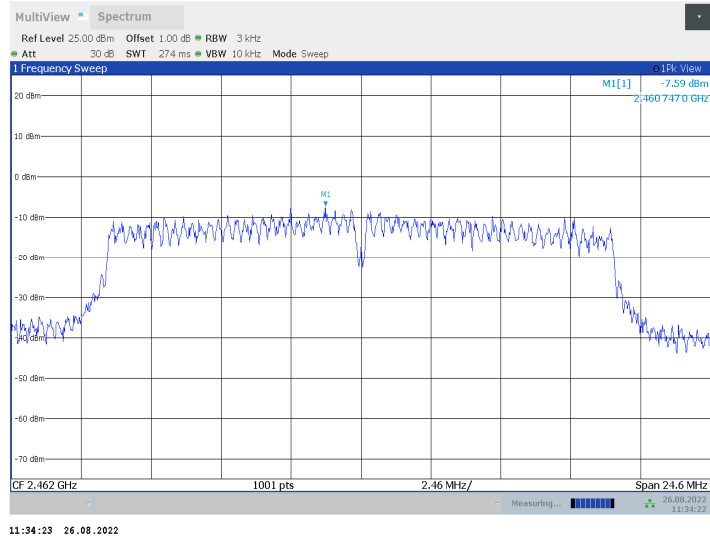


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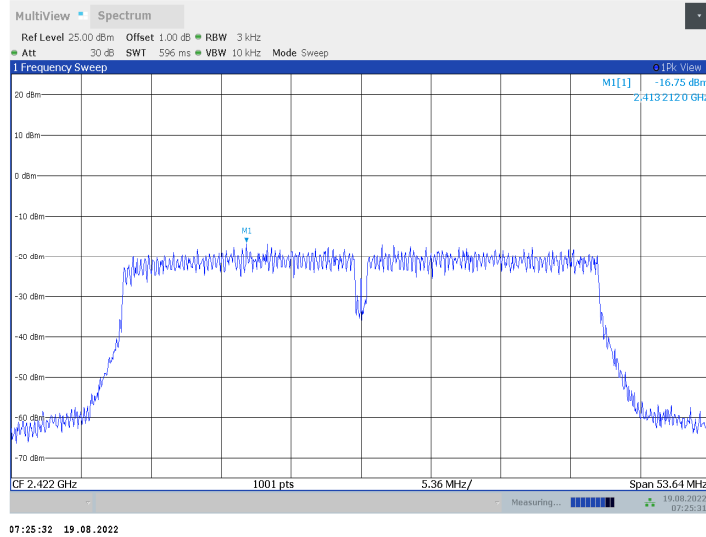


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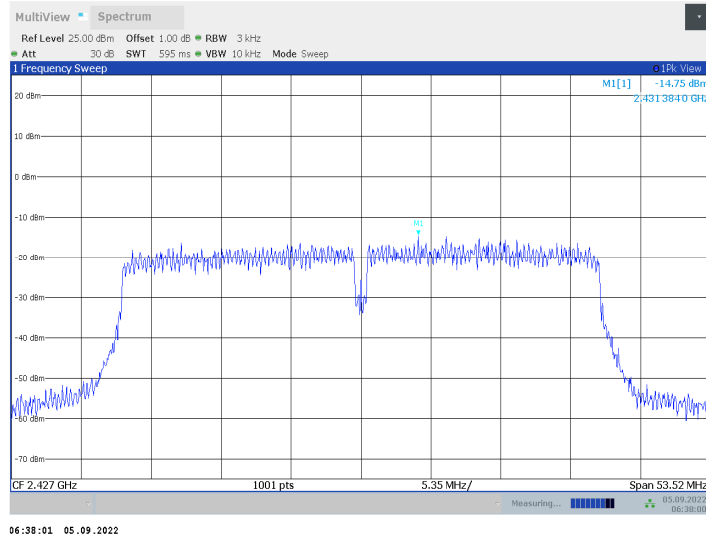
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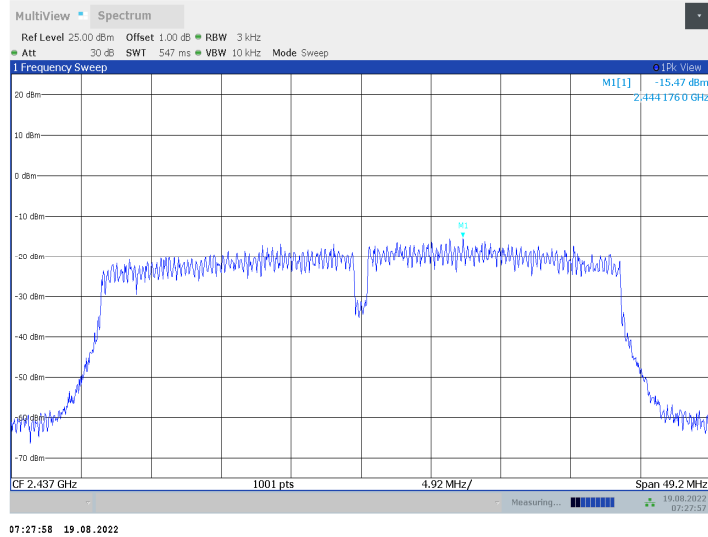
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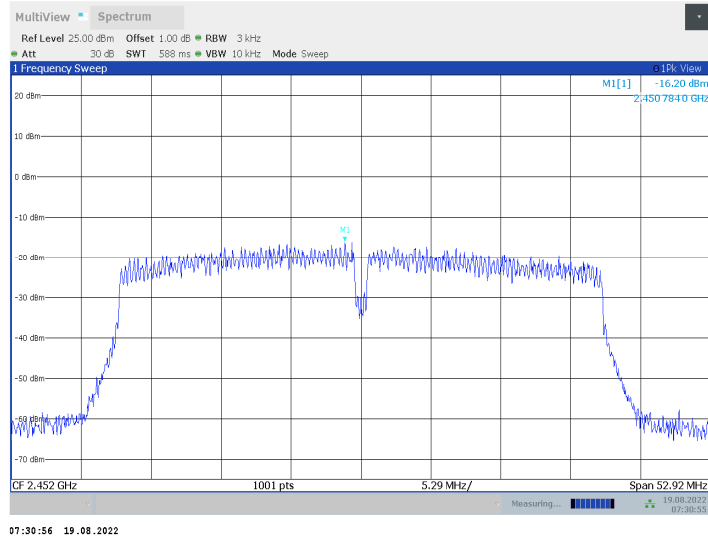
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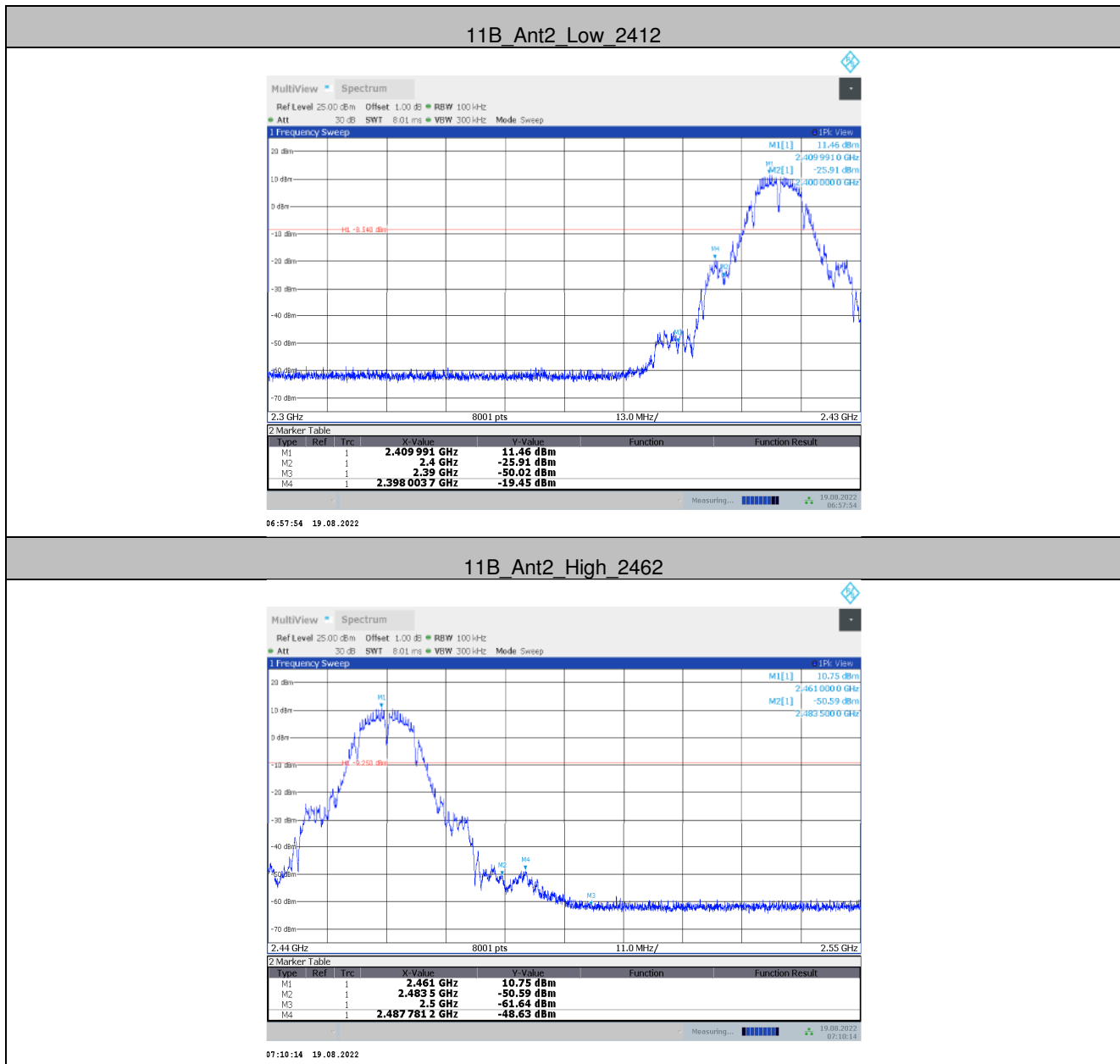
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Band edge measurements Test Graphs

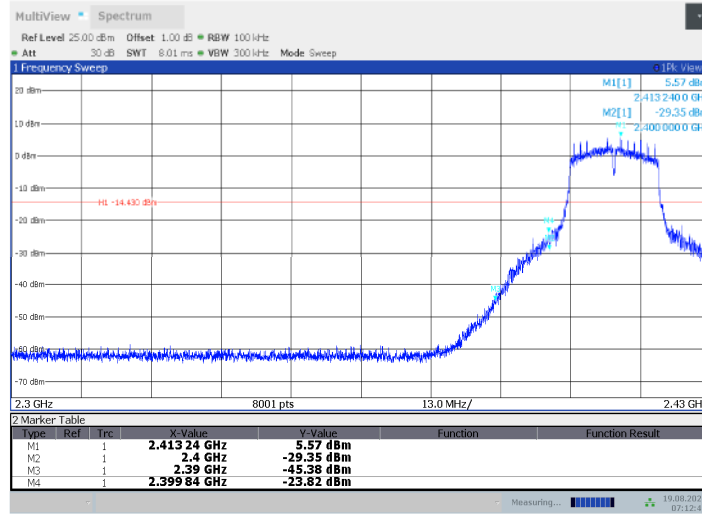


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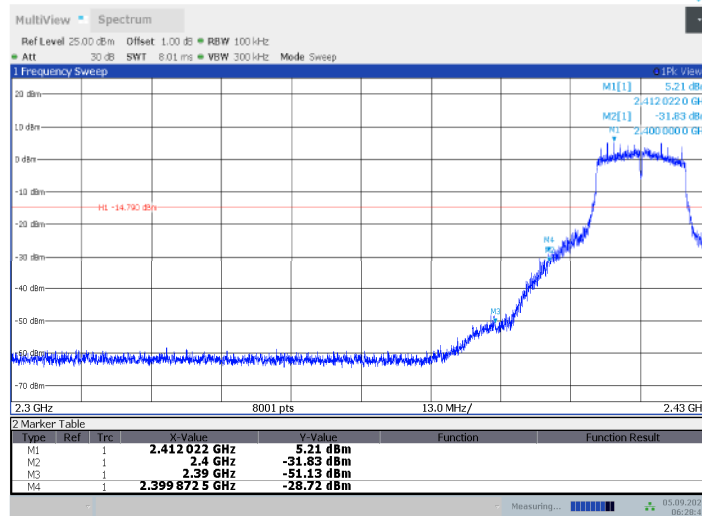
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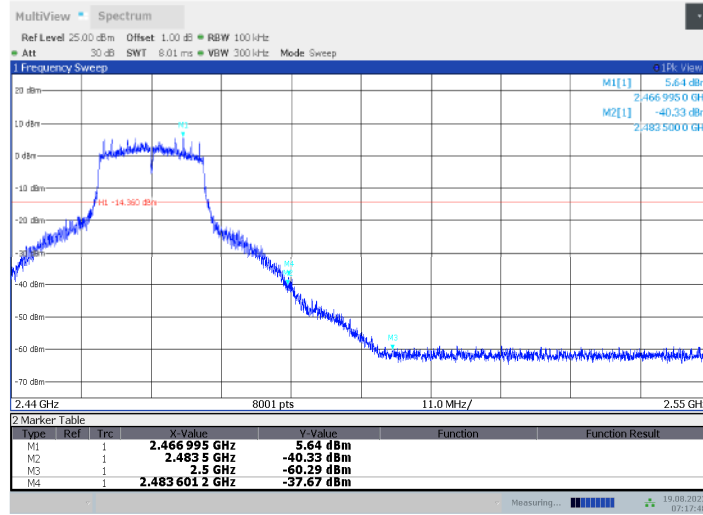
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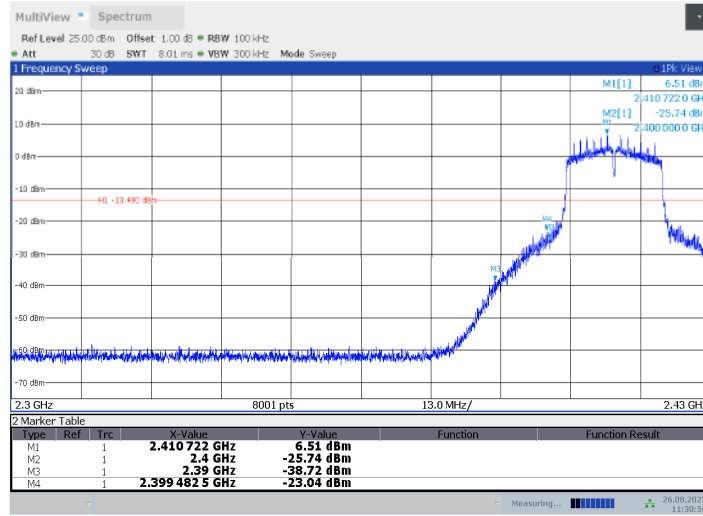
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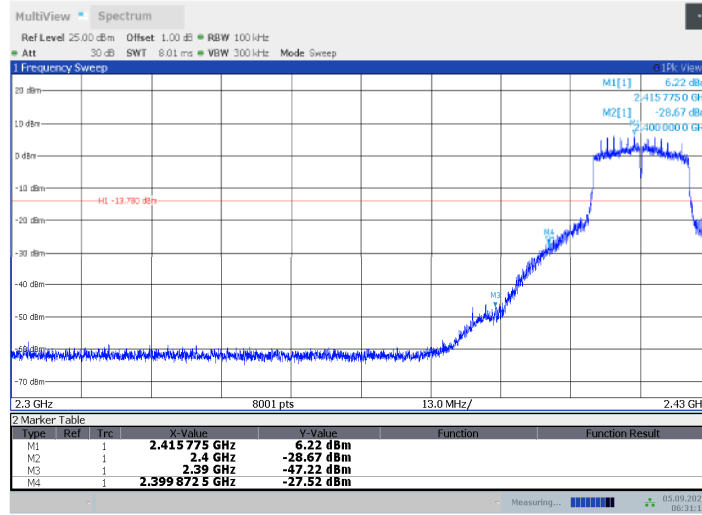


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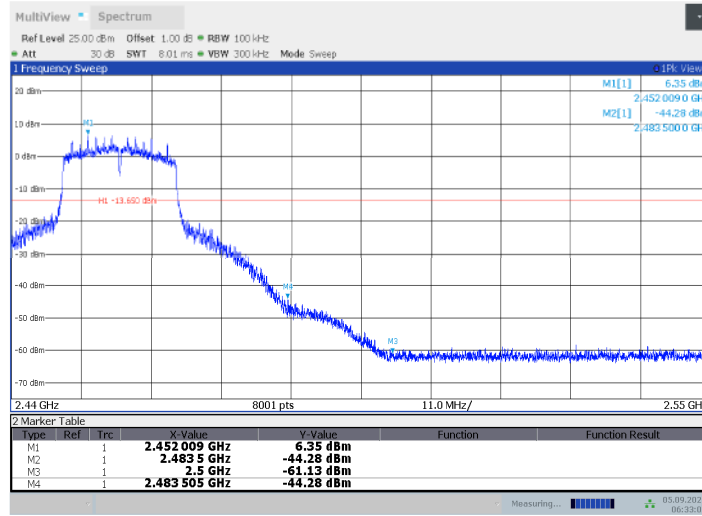
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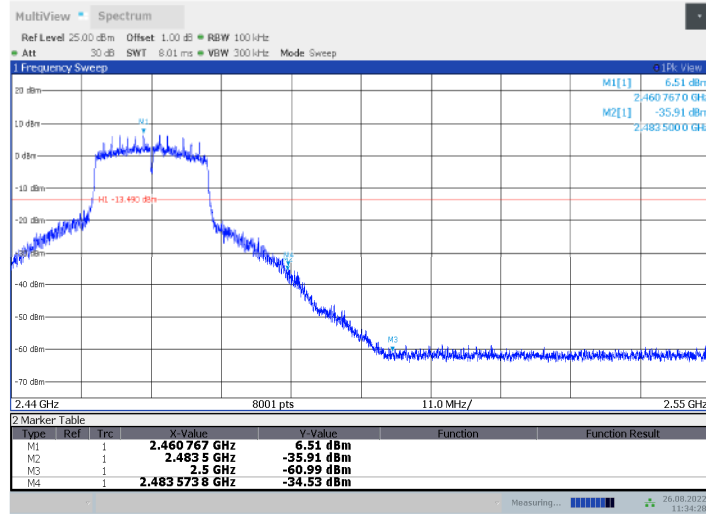


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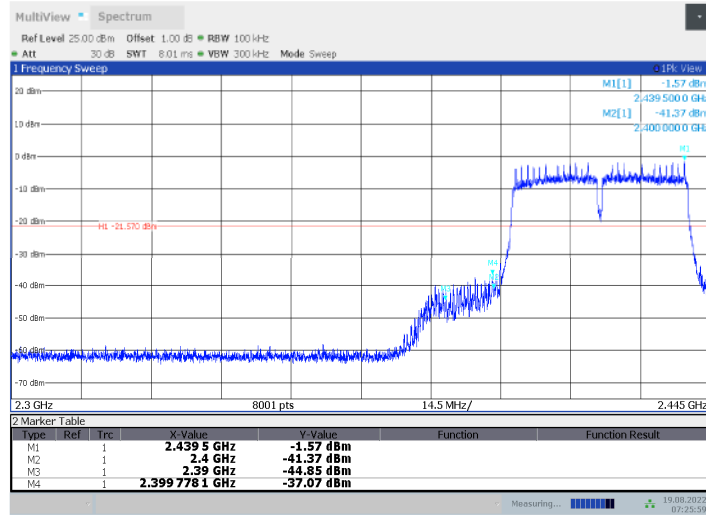
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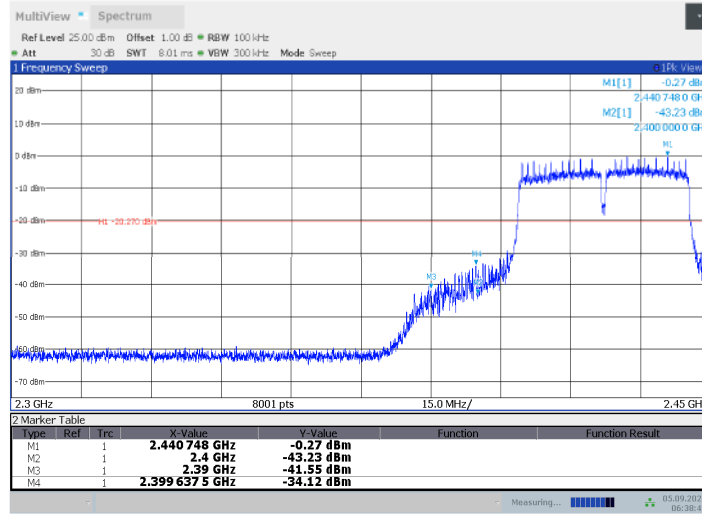
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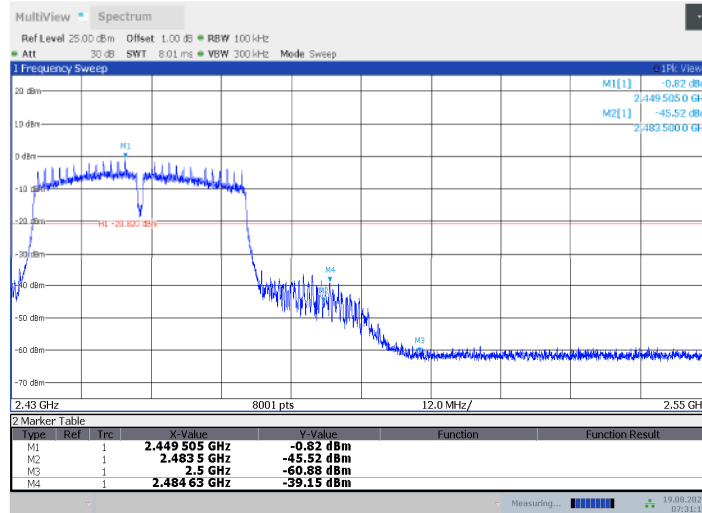
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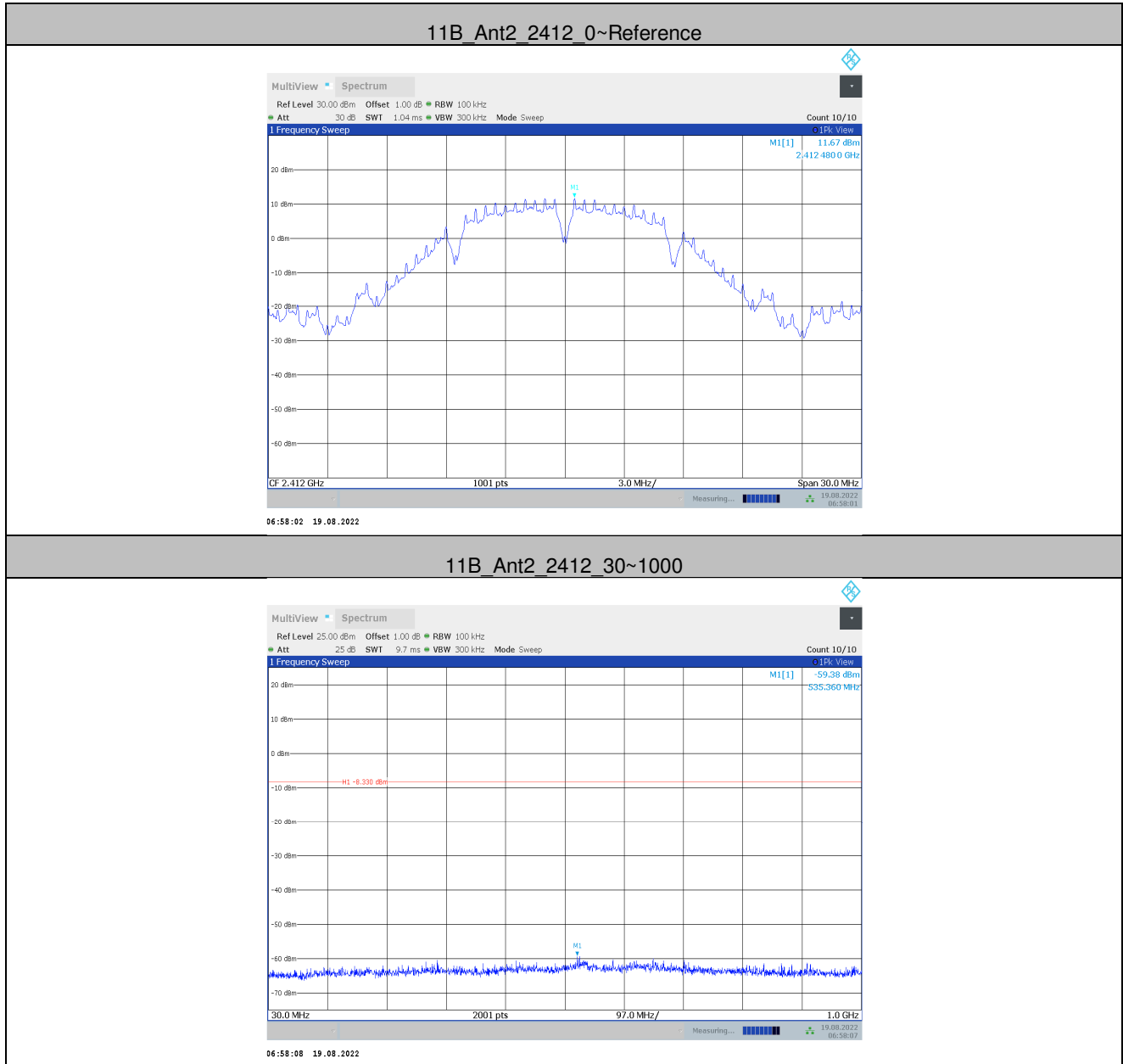
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Conducted Spurious Emission Test Graphs



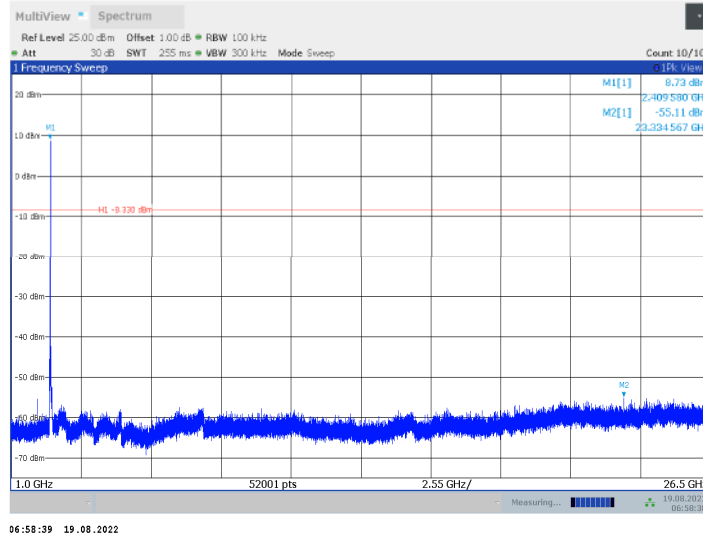
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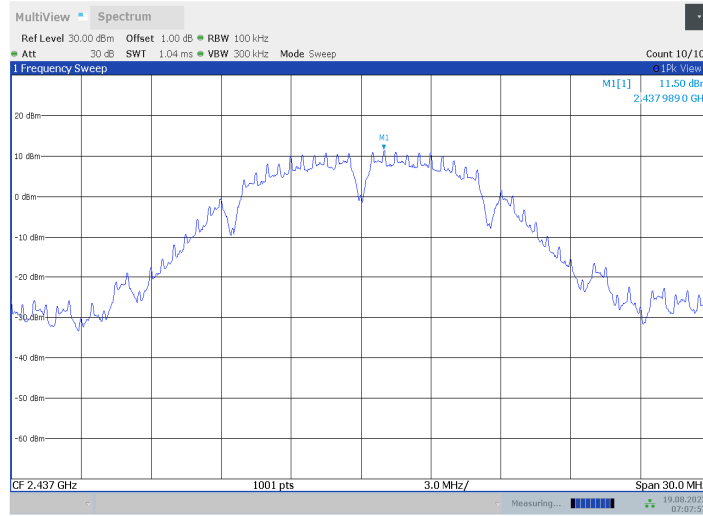
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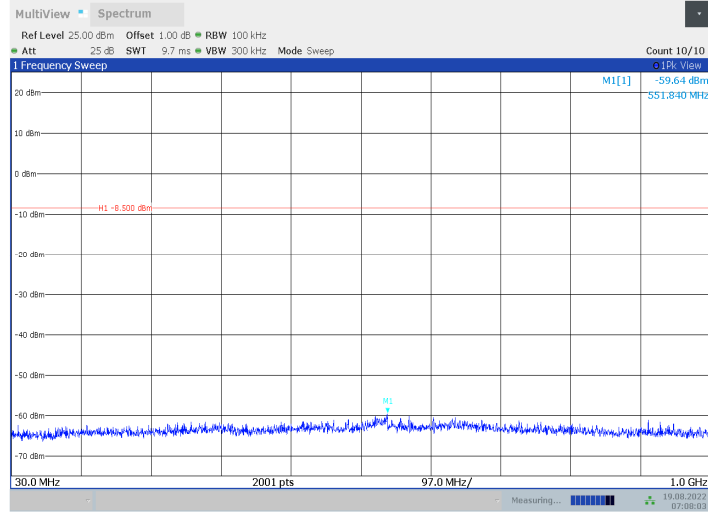
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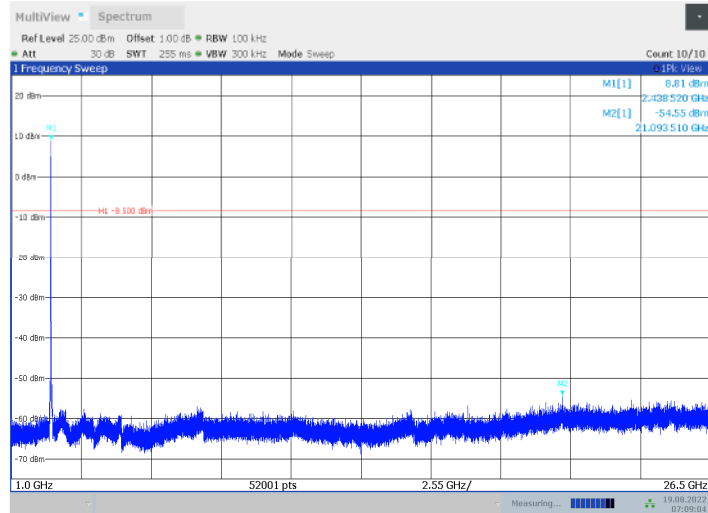
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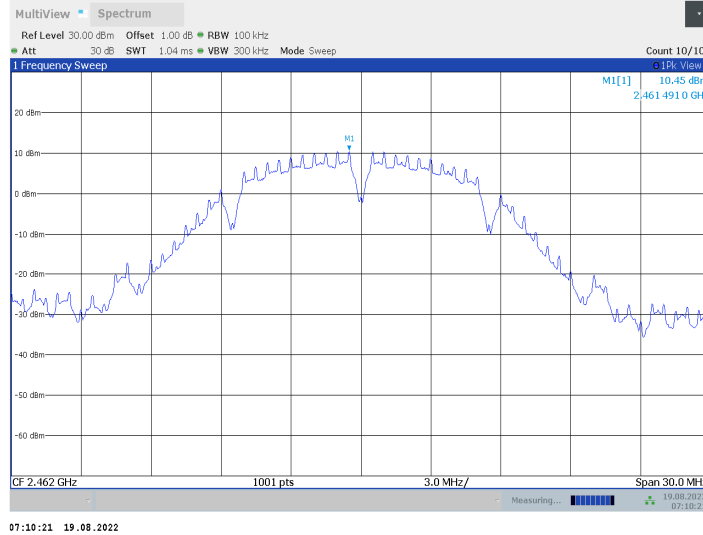


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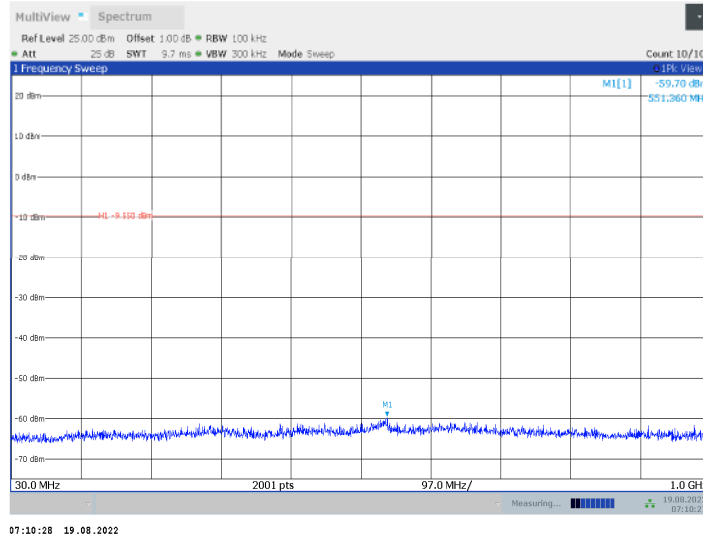
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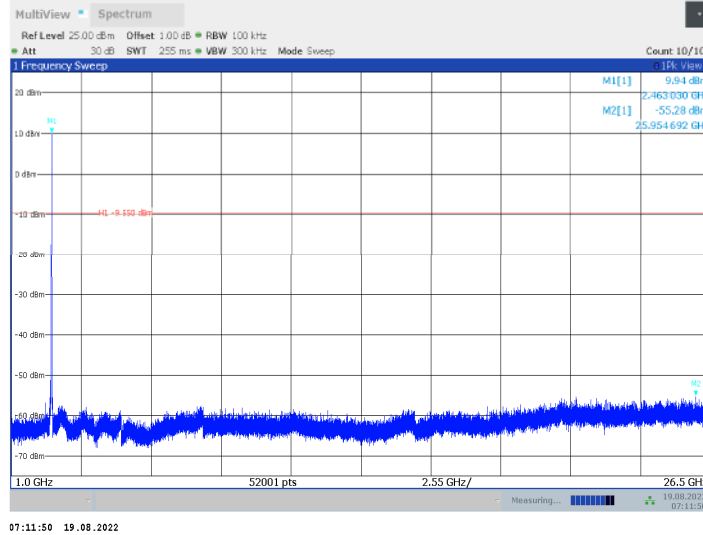


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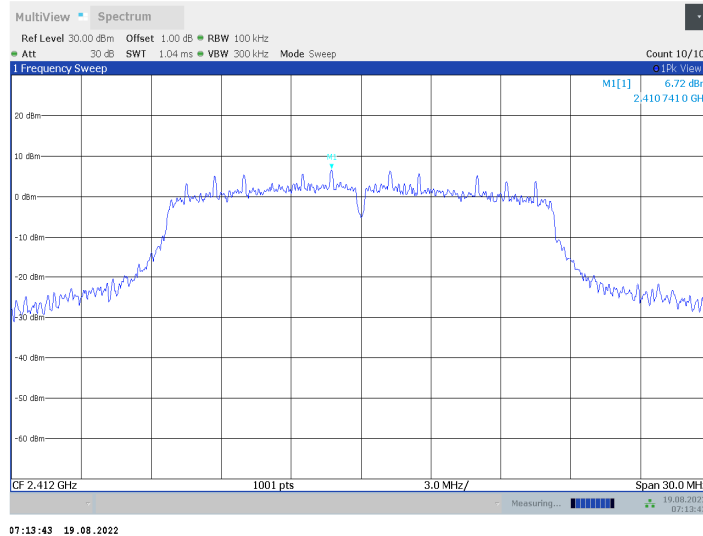
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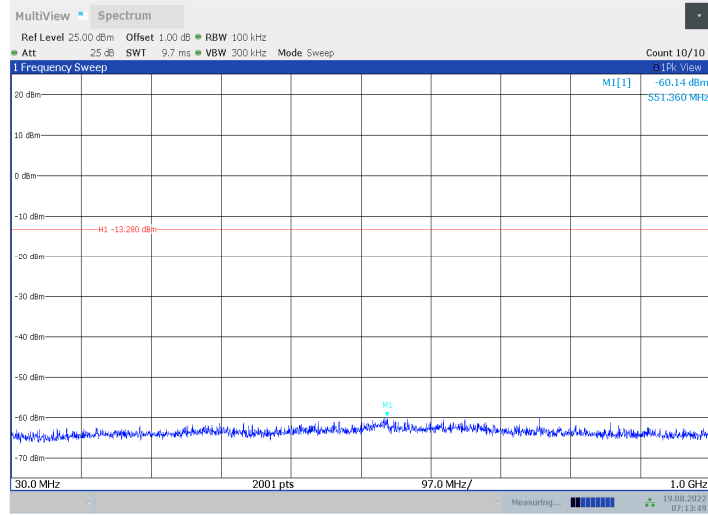
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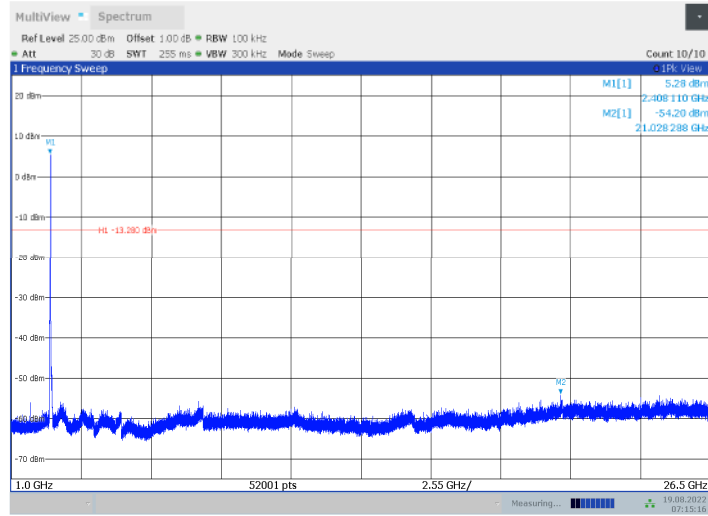
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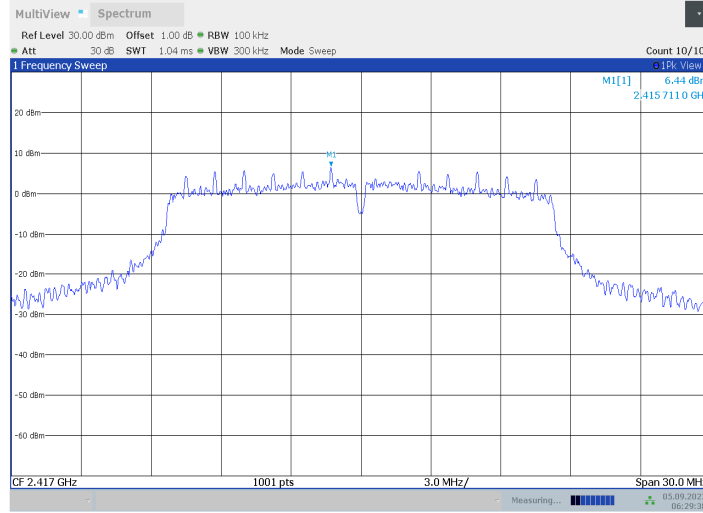
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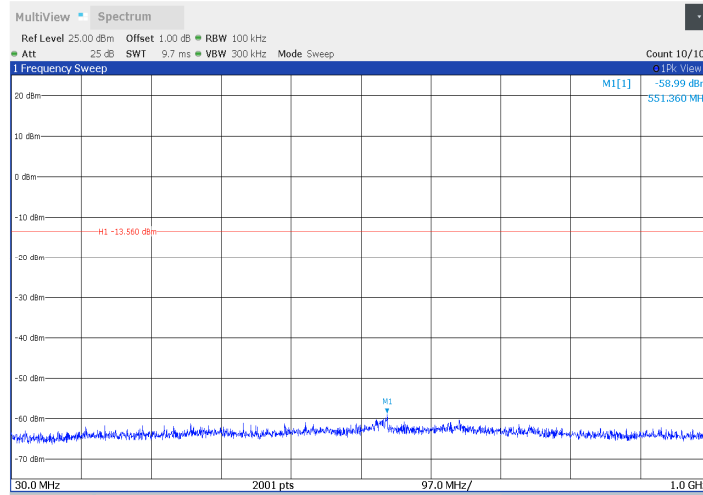
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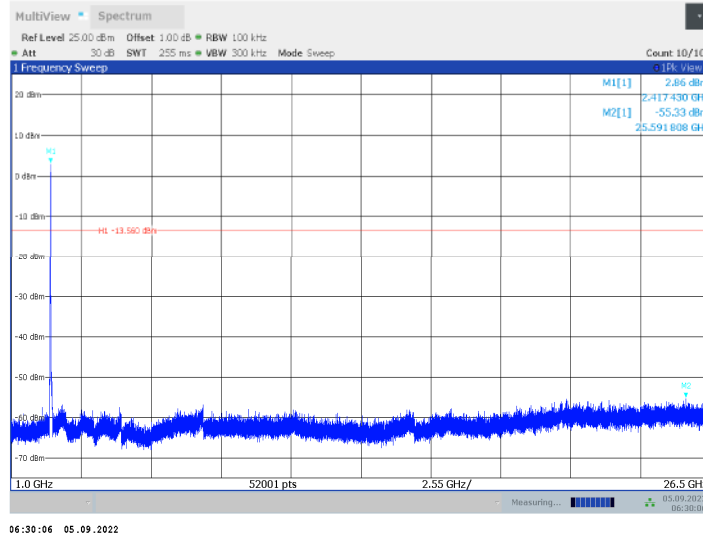


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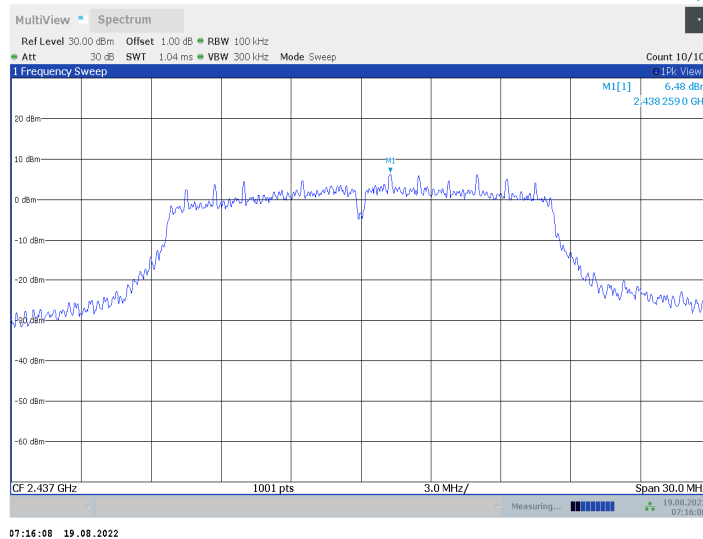
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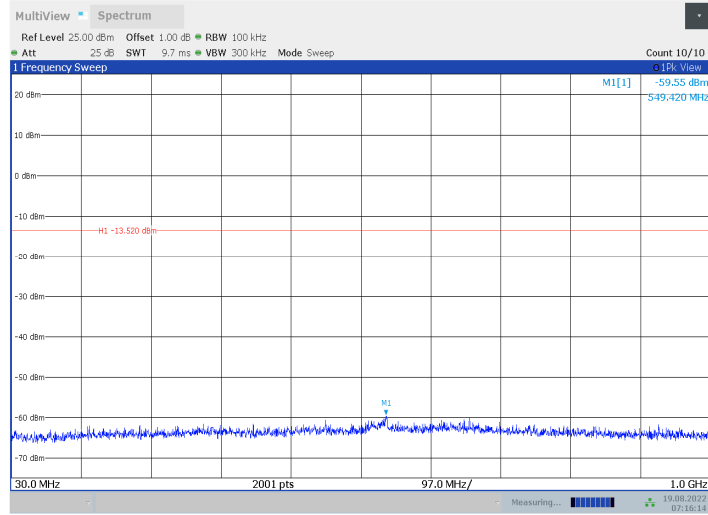
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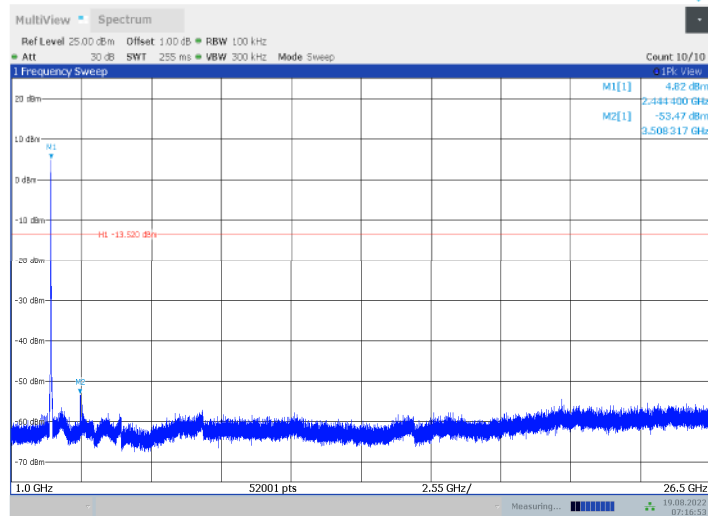
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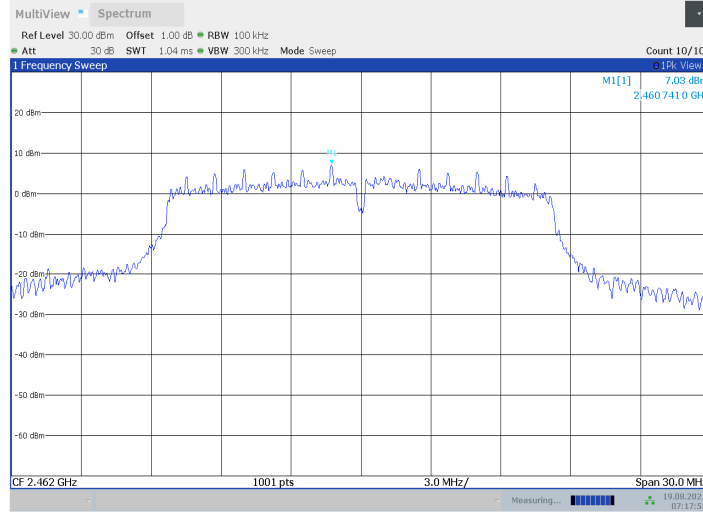
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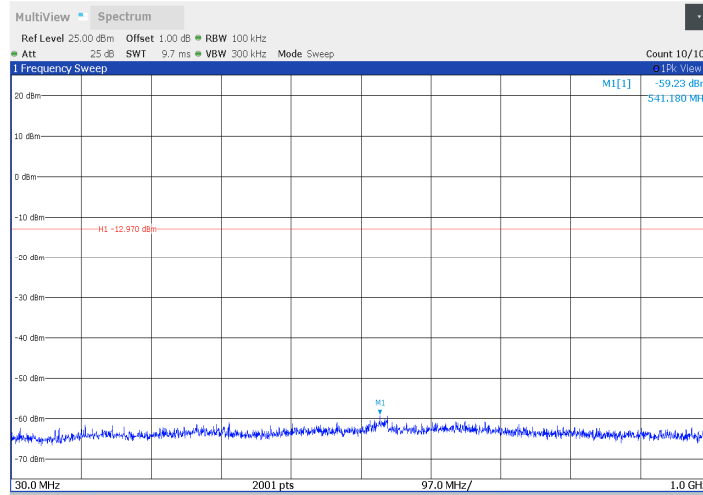
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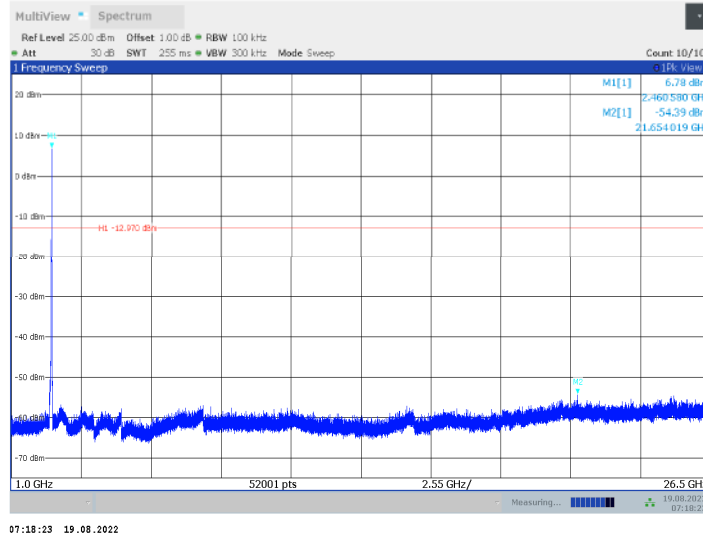
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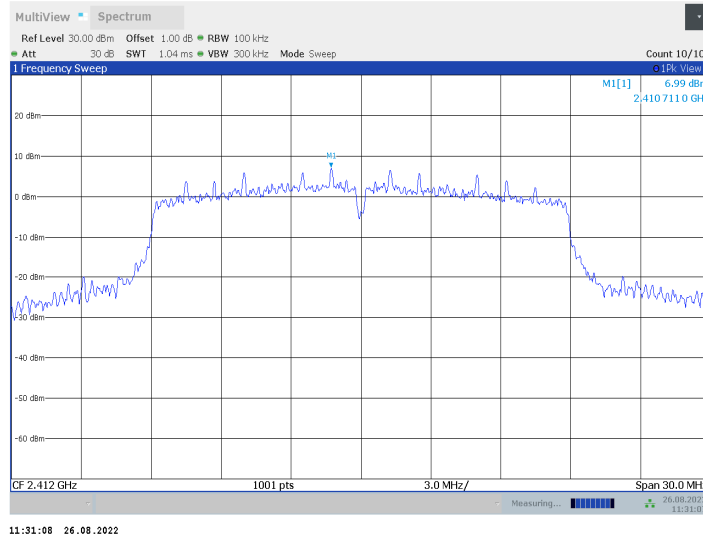
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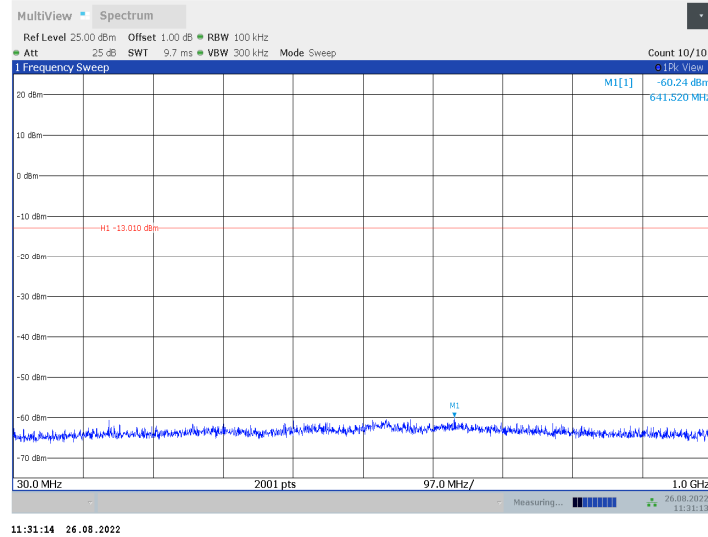
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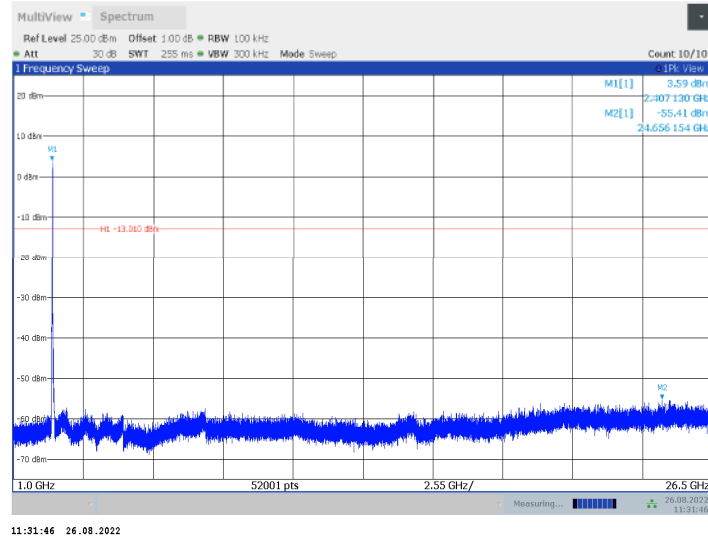
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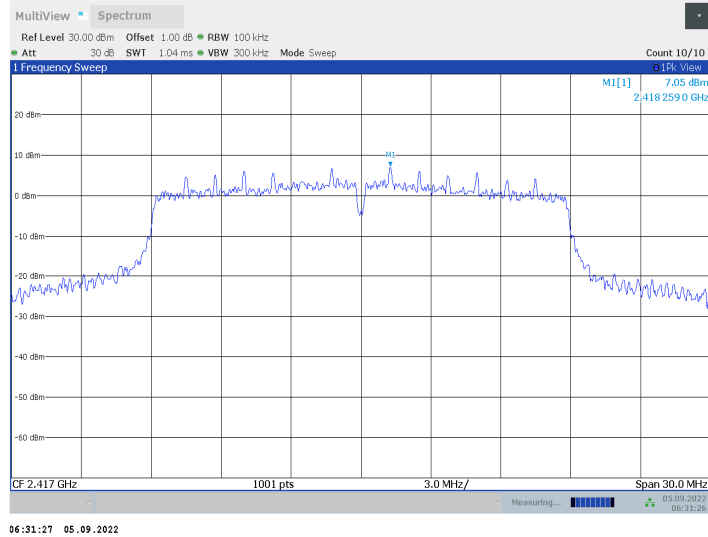


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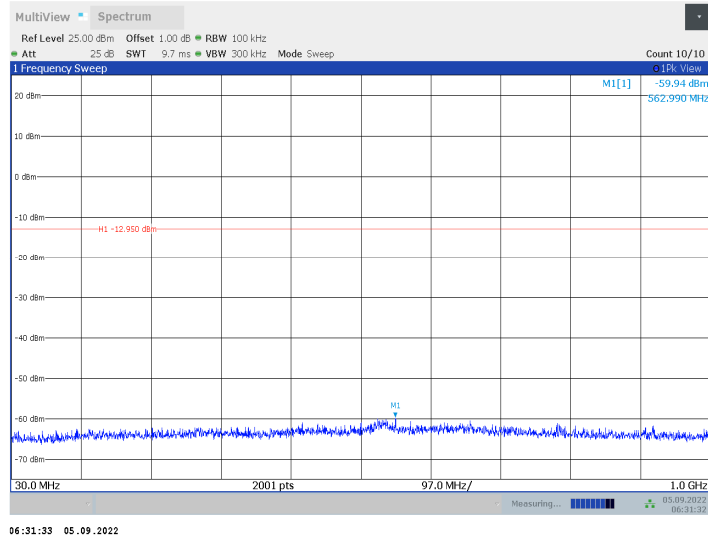
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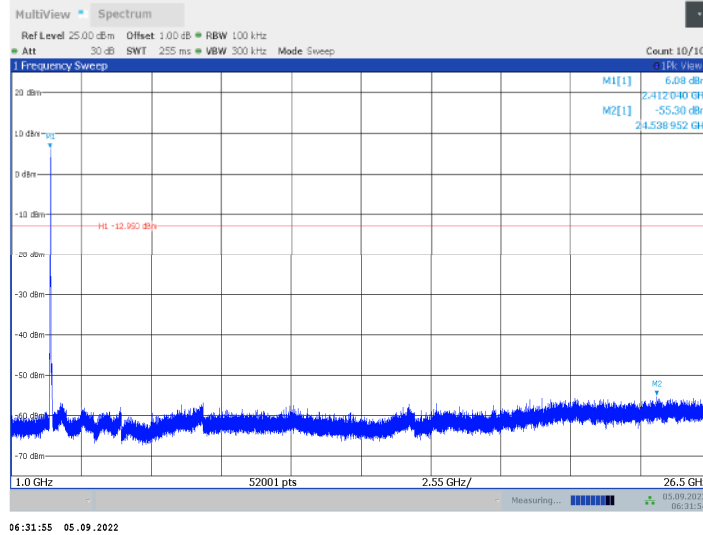
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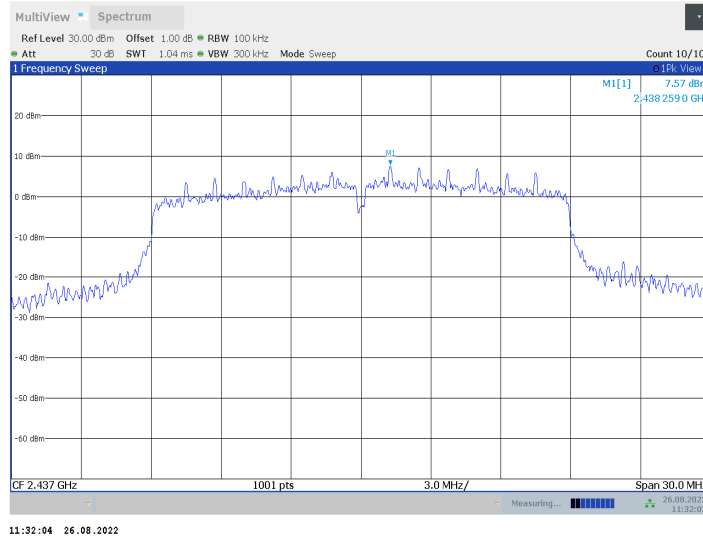
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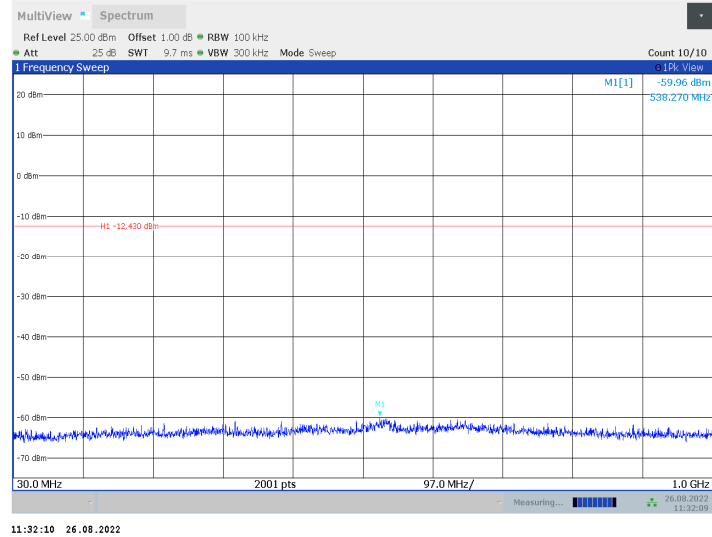
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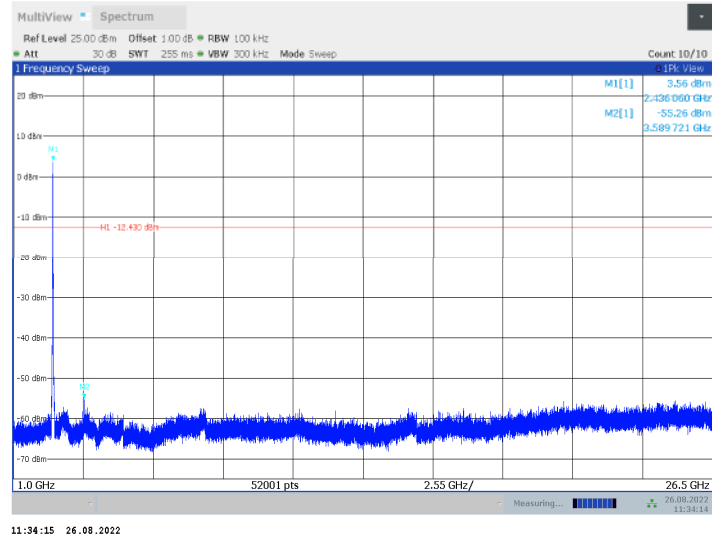
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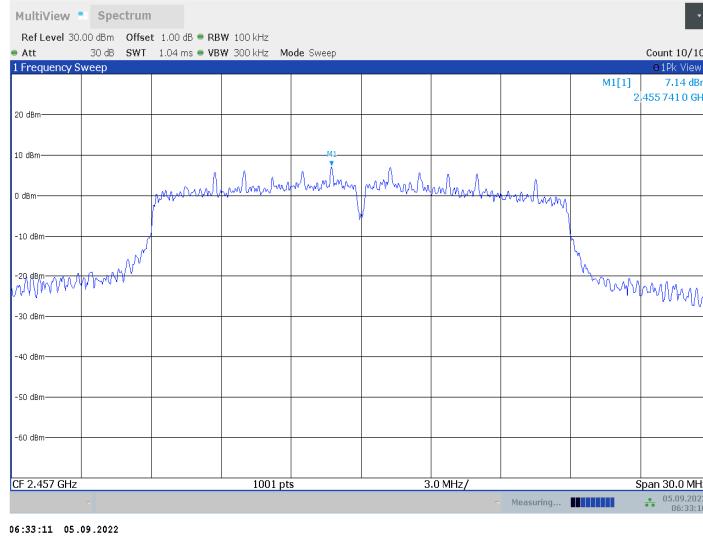


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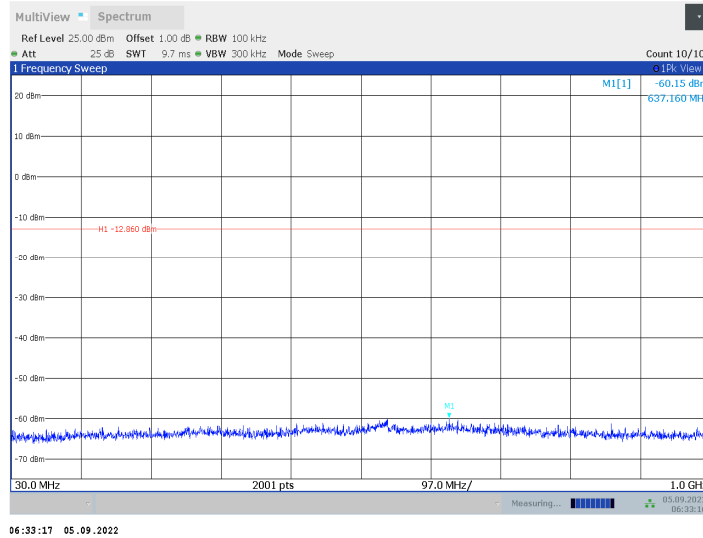
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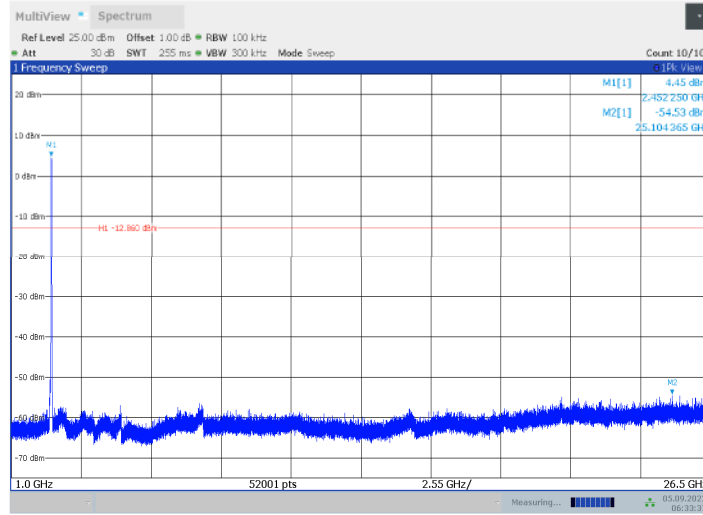


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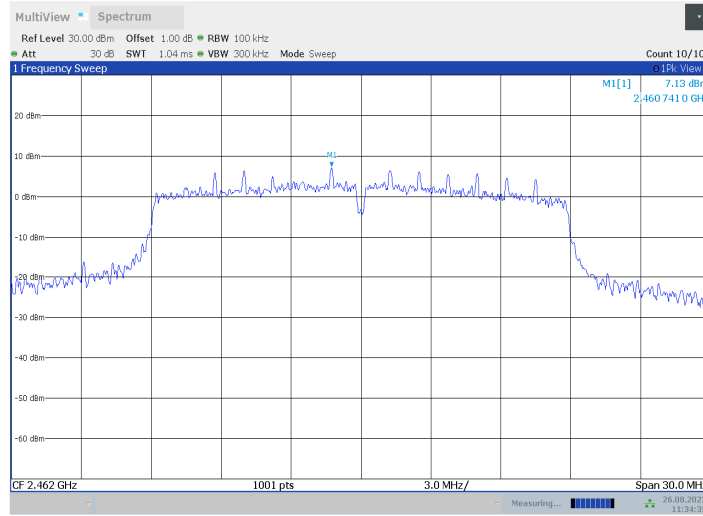
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06:33:38 05.09.2022

11N20SISO_Ant2_2462_0~Reference



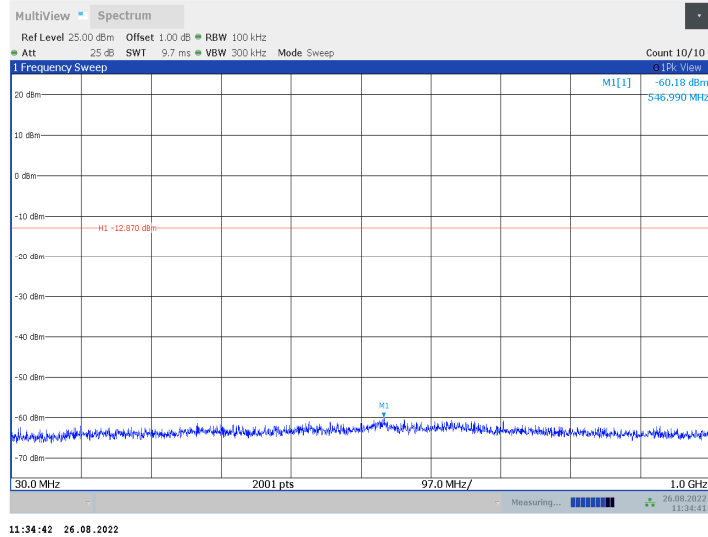
11:34:36 26.08.2022



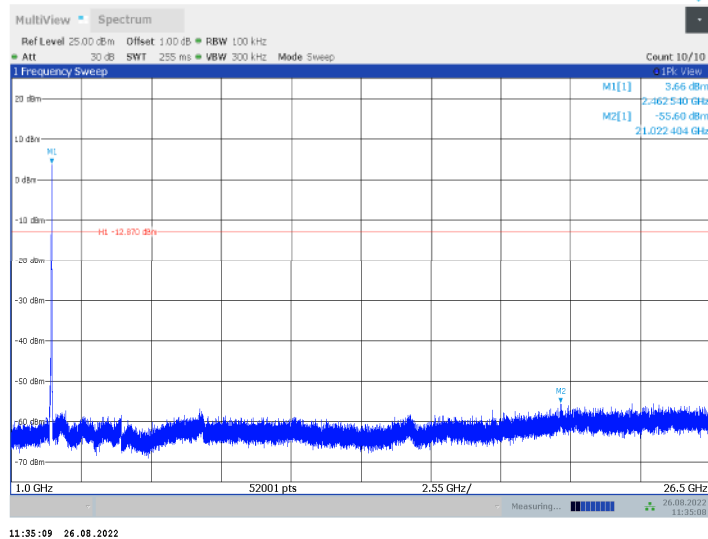
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11N20SISO_Ant2_2462_30~1000



11N20SISO_Ant2_2462_1000~26500

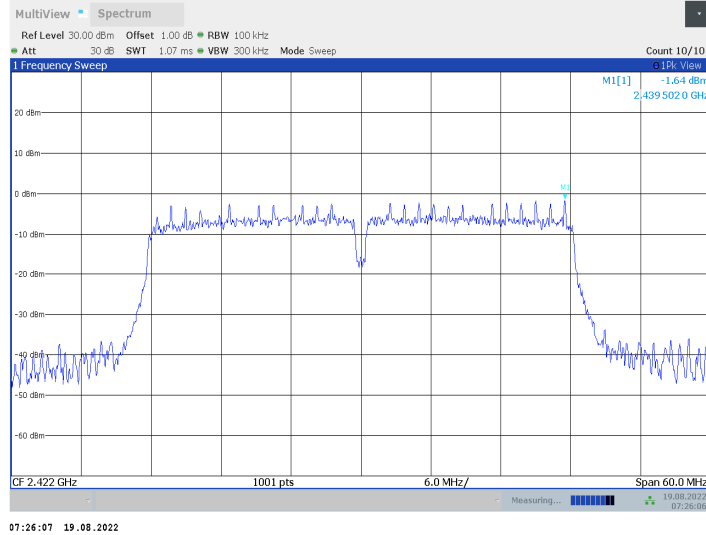


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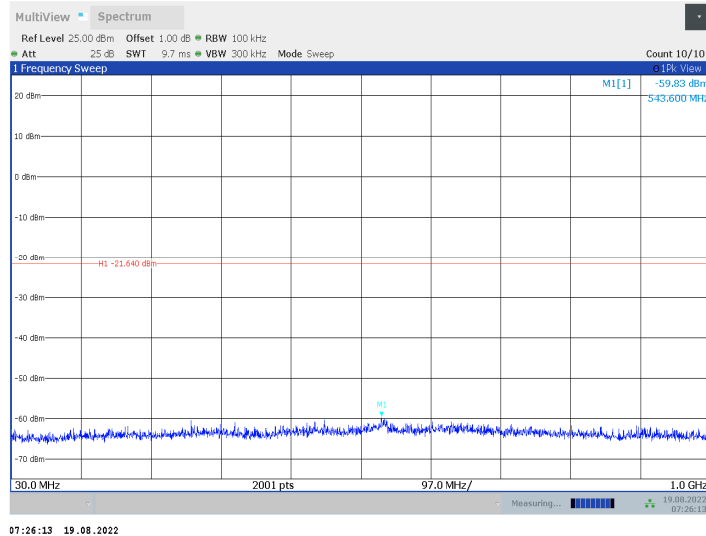
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11N40SISO_Ant2_2422_0~Reference



11N40SISO_Ant2_2422_30~1000

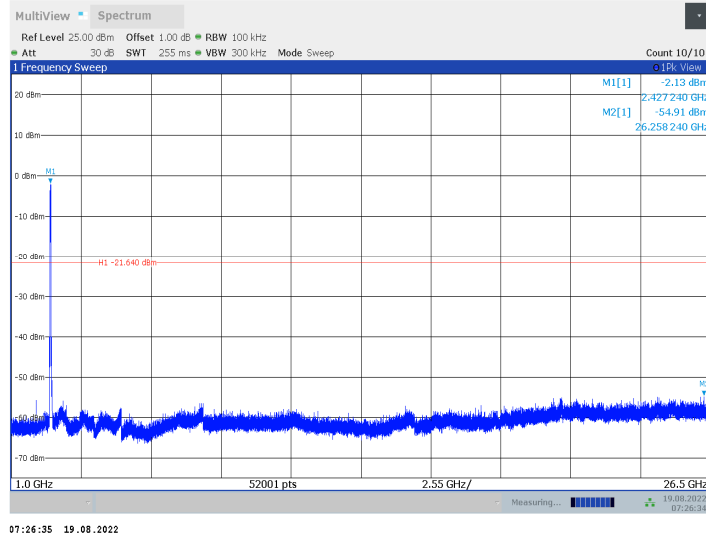


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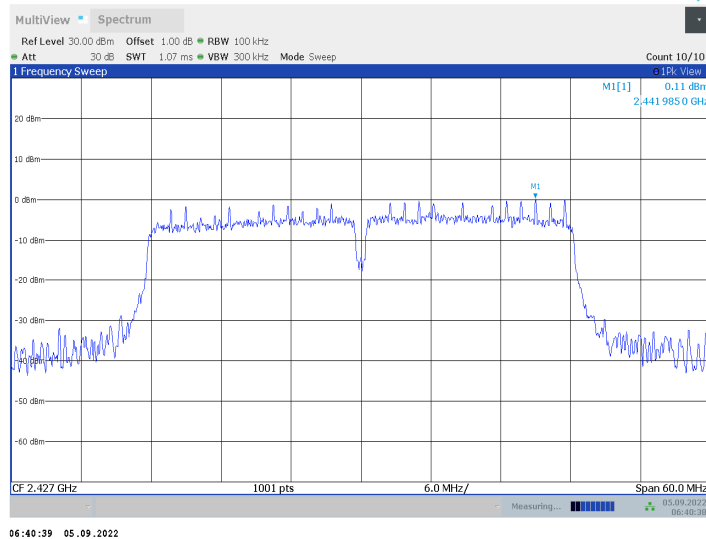
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11N40SISO_Ant2_2422_1000~26500



07:26:35 19.08.2022

11N40SISO_Ant2_2427_0~Reference



06:40:39 05.09.2022

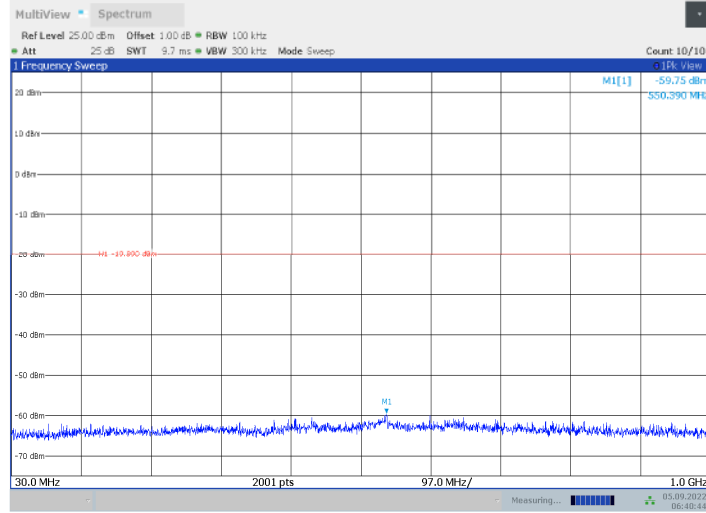


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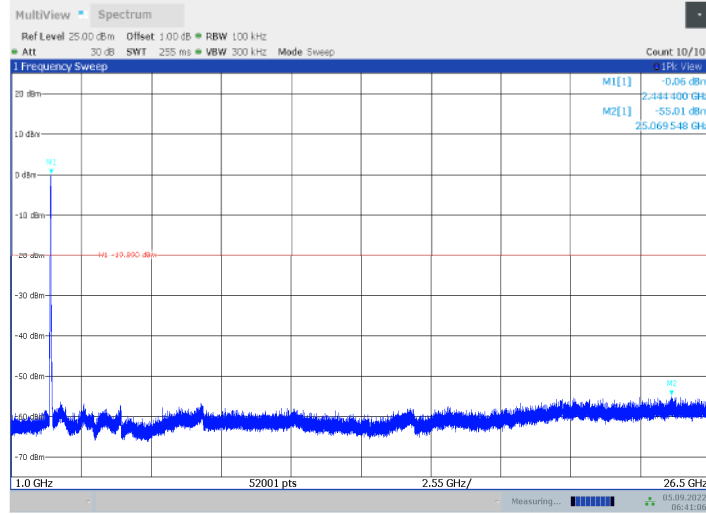
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11N40SISO_Ant2_2427_30~1000



06:40:45 05.09.2022

11N40SISO_Ant2_2427_1000~26500



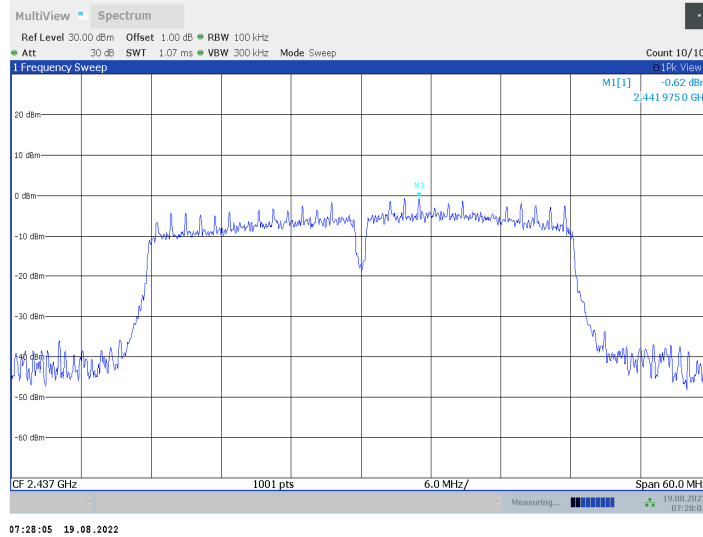
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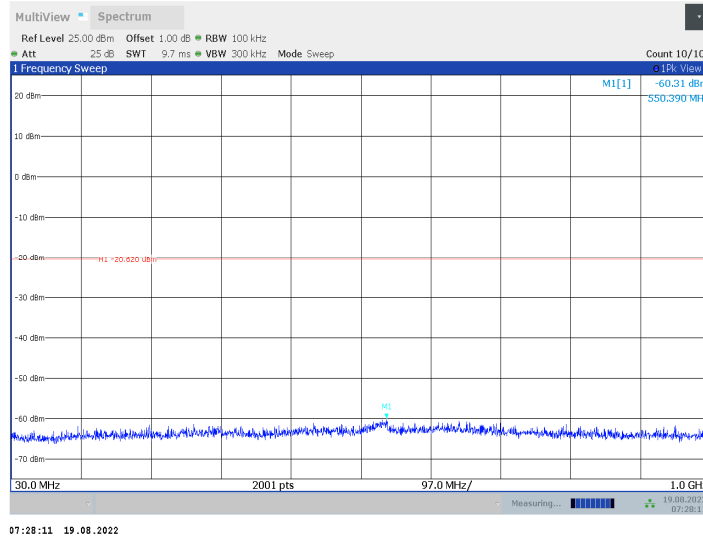
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11N40SISO_Ant2_2437_0~Reference



11N40SISO_Ant2_2437_30~1000



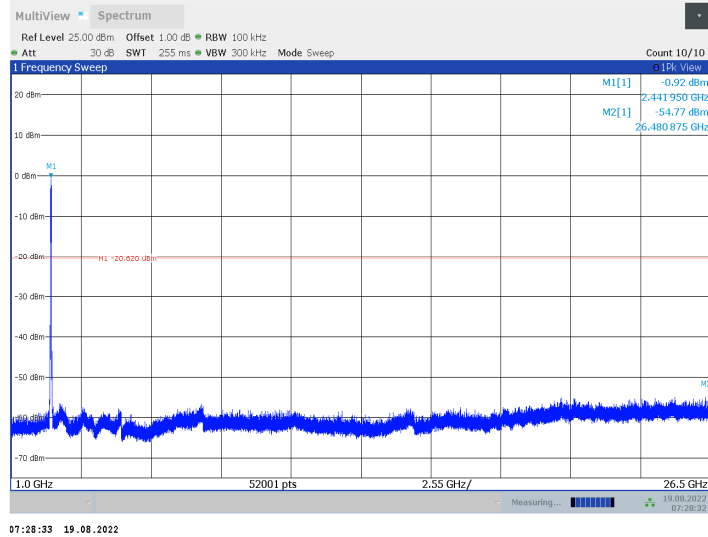
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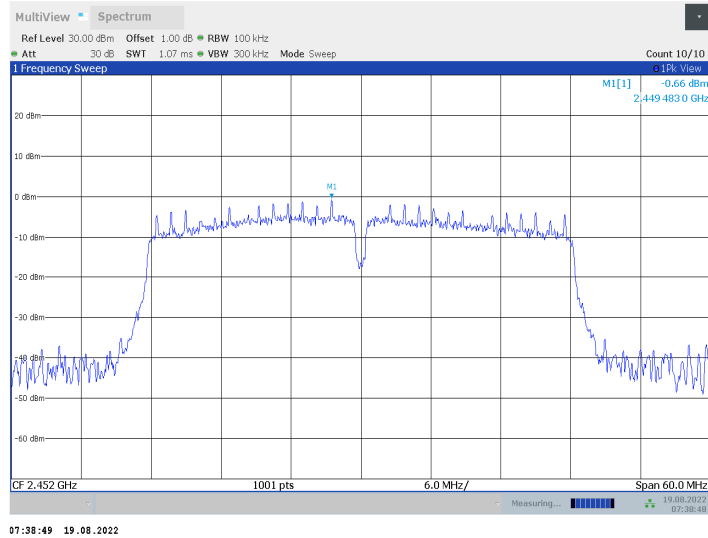
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11N40SISO_Ant2_2437_1000~26500



11N40SISO_Ant2_2452_0~Reference

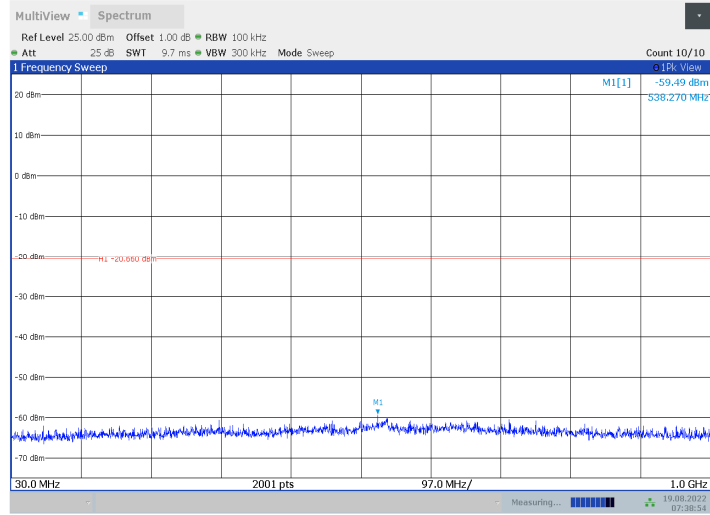


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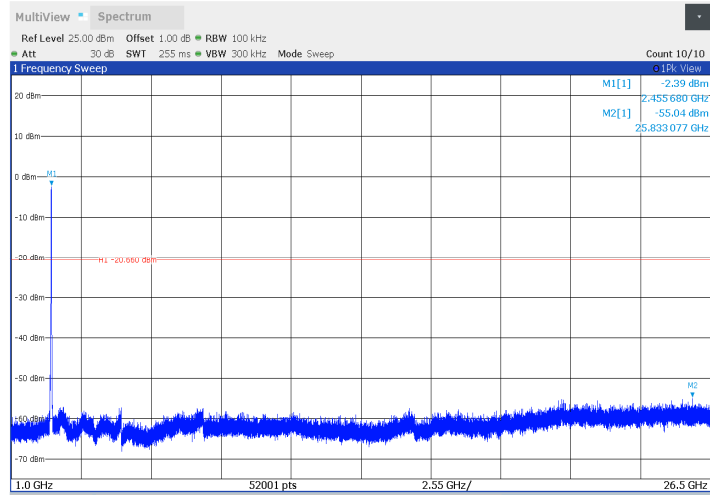
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11N40SISO_Ant2_2452_30~1000



07:38:55 19.08.2022

11N40SISO_Ant2_2452_1000~26500



07:39:18 19.08.2022



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant2	2412	8.40	8.43	99.64
11G	Ant2	2412	1.39	1.43	97.20
11N20SISO	Ant2	2412	1.30	1.34	97.01
11N40SISO	Ant2	2422	0.64	0.68	94.12

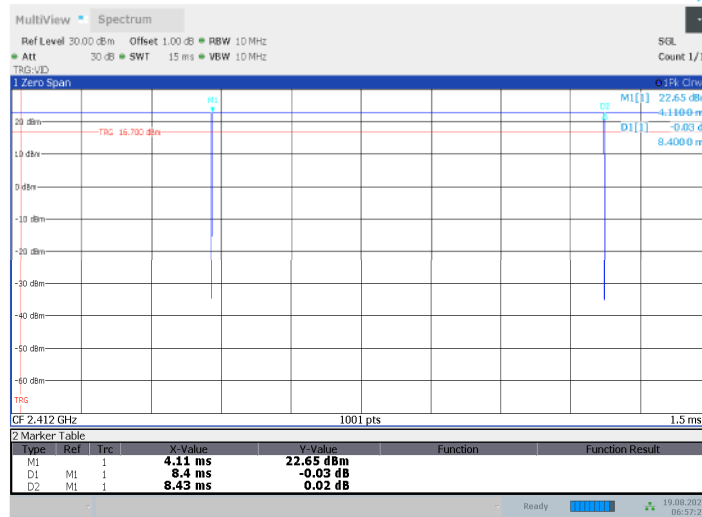


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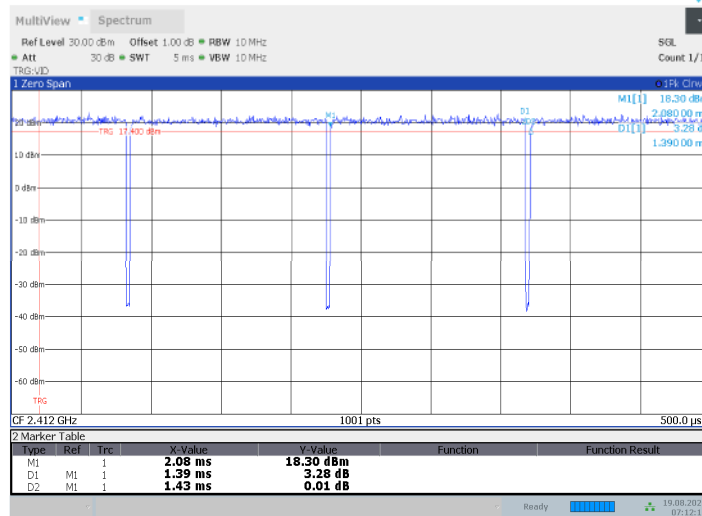
Test Graphs

11B Ant2 2412



06:57:23 19.08.2022

11G Ant2 2412



07:12:14 19.08.2022

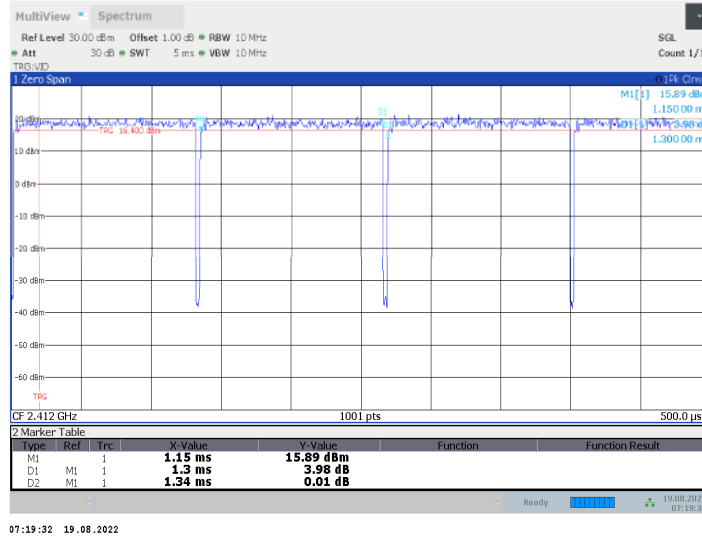


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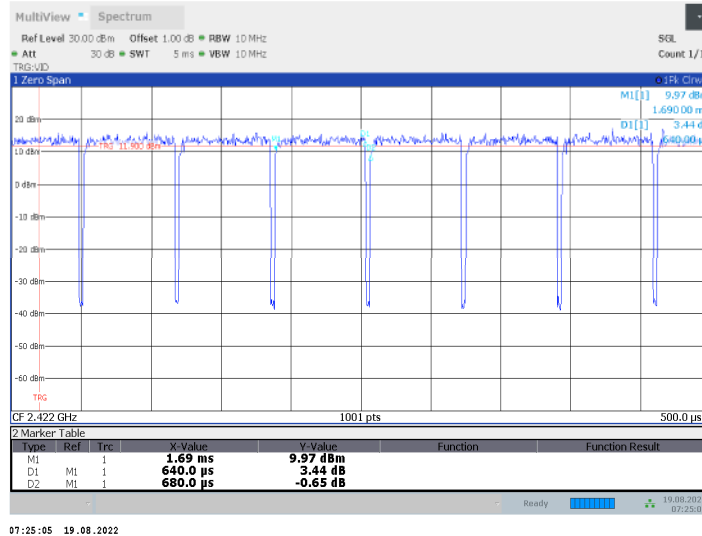
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11N20SISO_Ant2_2412



11N40SISO_Ant2_2422



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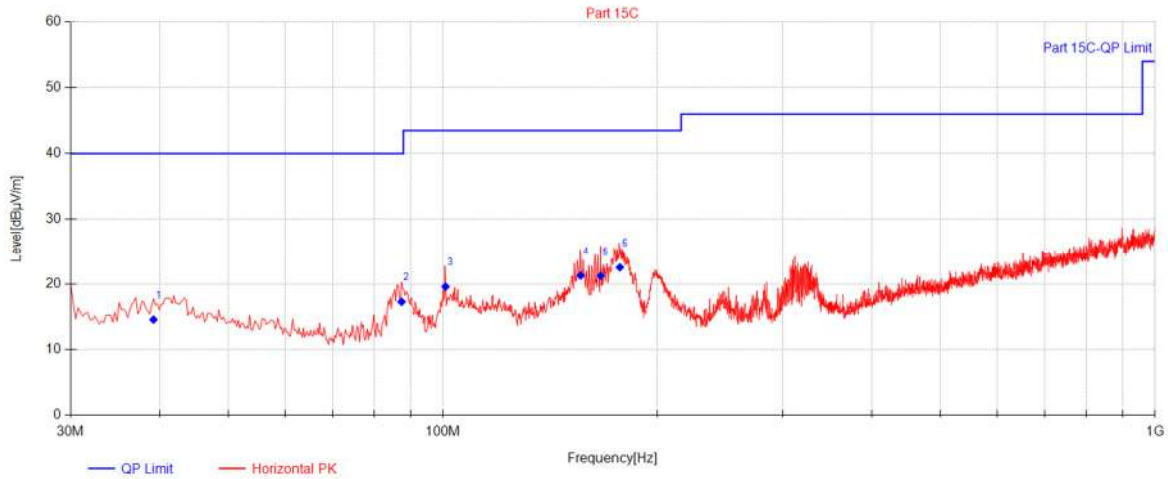
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11n20_Channel 01



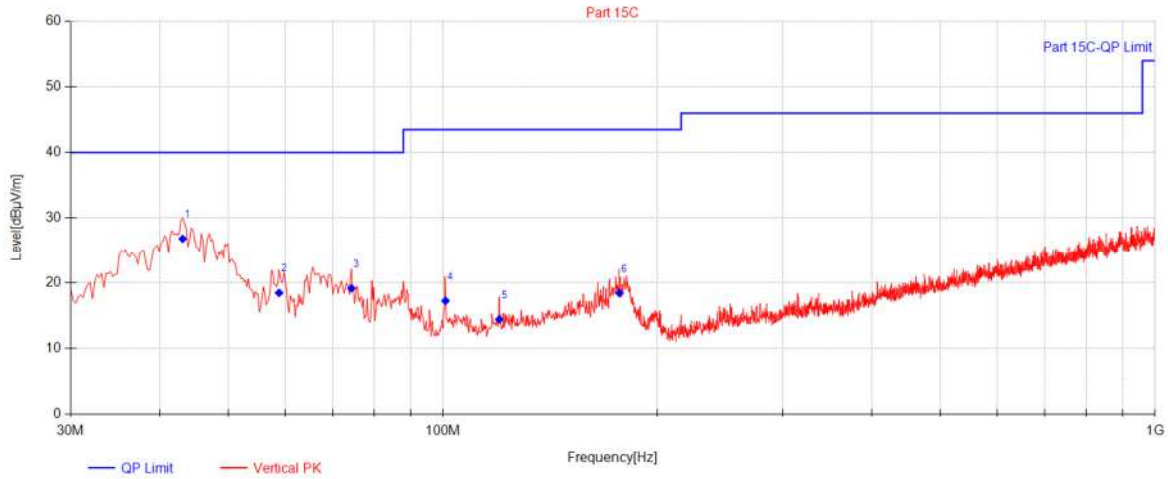
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.215	36.91	-36.30	13.96	14.57	40.00	25.43	158	147	Horizontal
2	87.4725	44.12	-36.23	9.40	17.29	40.00	22.71	146	294	Horizontal
3	100.81	45.16	-35.79	10.23	19.60	43.50	23.90	291	316	Horizontal
4	156.1	42.59	-35.28	14.02	21.32	43.50	22.18	145	360	Horizontal
5	166.5275	42.13	-35.20	14.32	21.24	43.50	22.26	172	360	Horizontal
6	177.1975	43.16	-35.20	14.60	22.56	43.50	20.94	130	355	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	43.095	49.23	-36.23	13.81	26.81	40.00	13.19	169	130	Vertical
2	58.8575	41.99	-36.37	12.84	18.46	40.00	21.54	184	338	Vertical
3	74.3775	45.13	-36.13	10.15	19.15	40.00	20.85	179	358	Vertical
4	100.81	42.81	-35.79	10.23	17.25	43.50	26.25	142	2	Vertical
5	119.9675	38.33	-36.15	12.24	14.42	43.50	29.08	165	11	Vertical
6	176.955	39.02	-35.20	14.60	18.42	43.50	25.08	109	67	Vertical

Remark:

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

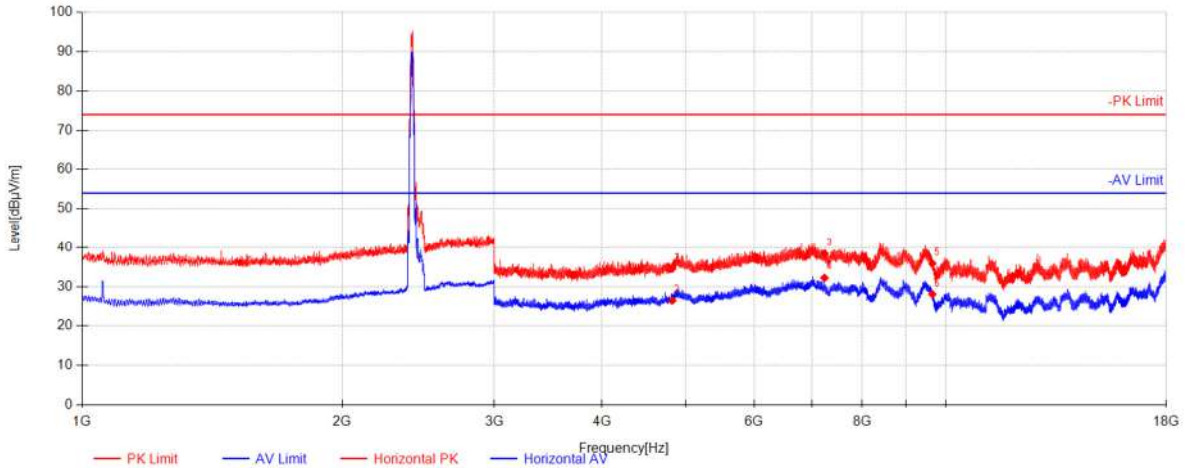


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Transmitter emission Above 1GHz

802.11b_Channel 01



Final 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	47.76	32.39	-45.54	34.61	74.00	39.39	216	111	Horizontal
2	4824.0000	39.63	32.39	-45.54	26.48	54.00	27.52	231	56	Horizontal
3	7236.0000	45.36	36.58	-43.54	38.40	74.00	35.60	254	0	Horizontal
4	7236.0000	39.17	36.58	-43.54	32.21	54.00	21.79	133	0	Horizontal
5	9648.0000	37.02	38.39	-39.56	35.85	74.00	38.15	175	191	Horizontal
6	9648.0000	29.24	38.39	-39.56	28.07	54.00	25.93	261	56	Horizontal

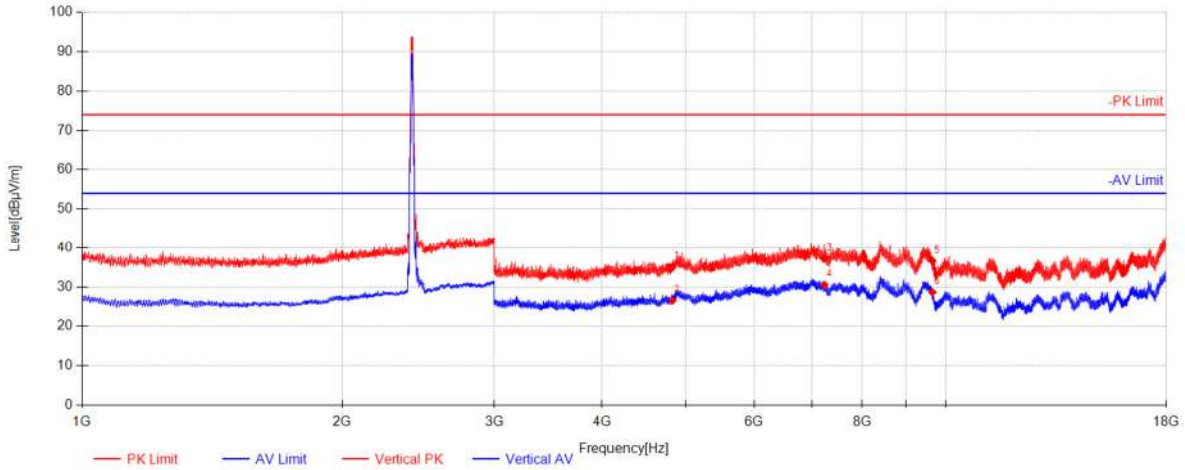


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802.11b_Channel 01



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.23	32.39	-45.54	35.08	74.00	38.92	216	278	Vertical
2	4824.0000	39.67	32.39	-45.54	26.52	54.00	27.48	175	109	Vertical
3	7236.0000	44.15	36.58	-43.54	37.19	74.00	36.81	251	193	Vertical
4	7236.0000	37.45	36.58	-43.54	30.49	54.00	23.51	132	249	Vertical
5	9648.0000	37.77	38.39	-39.56	36.60	74.00	37.40	184	332	Vertical
6	9648.0000	29.79	38.39	-39.56	28.62	54.00	25.38	103	80	Vertical



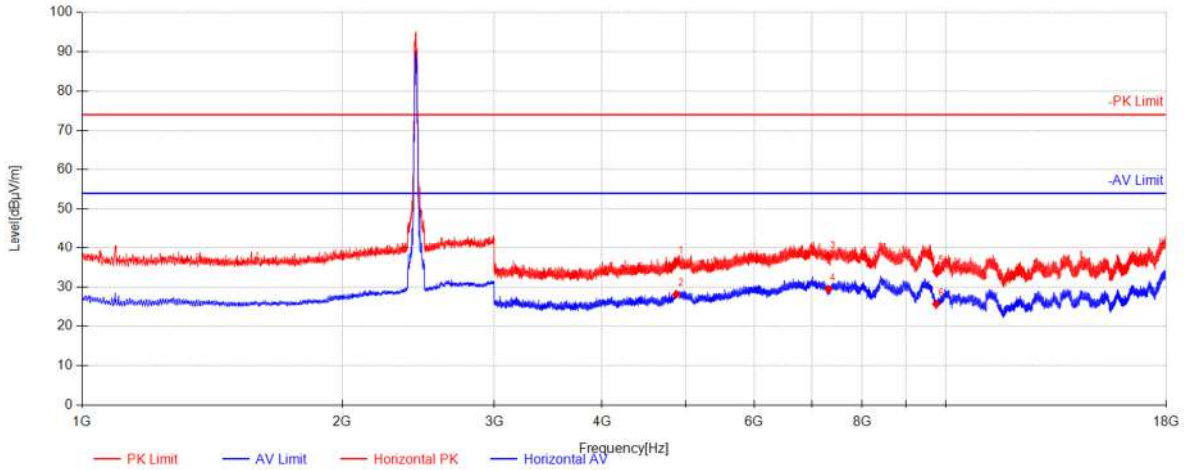
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802.11b_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.23	32.53	-45.53	36.22	74.00	37.78	174	1	Horizontal
2	4874.0000	41.11	32.53	-45.53	28.10	54.00	25.90	103	0	Horizontal
3	7311.0000	45.03	36.54	-43.71	37.86	74.00	36.14	222	276	Horizontal
4	7311.0000	36.61	36.54	-43.71	29.44	54.00	24.56	261	0	Horizontal
5	9748.0000	35.12	38.28	-39.46	33.94	74.00	40.06	132	334	Horizontal
6	9748.0000	26.81	38.28	-39.46	25.63	54.00	28.37	175	250	Horizontal



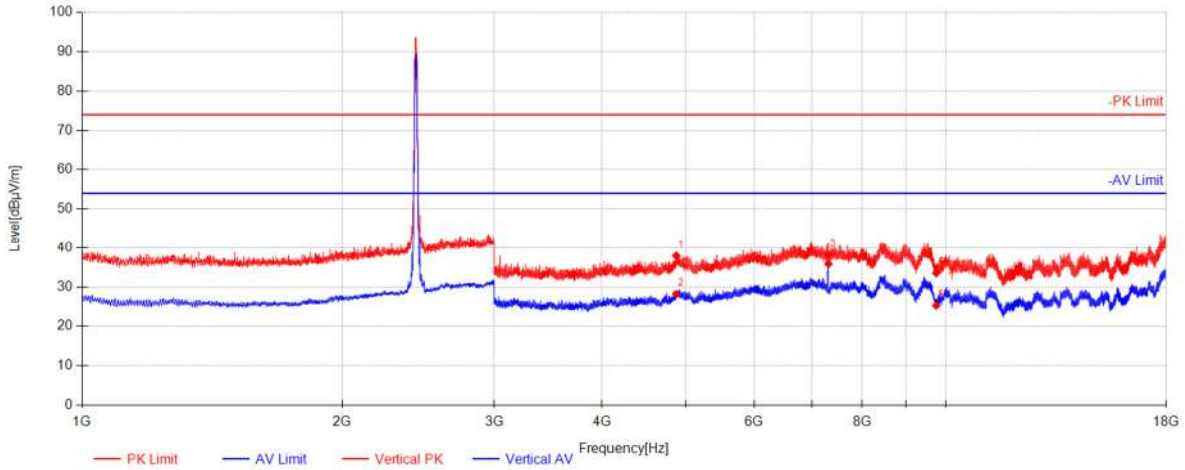
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802.11b_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	50.93	32.53	-45.53	37.92	74.00	36.08	144	357	Vertical
2	4874.0000	41.14	32.53	-45.53	28.13	54.00	25.87	211	194	Vertical
3	7311.0000	45.32	36.54	-43.71	38.15	74.00	35.85	126	26	Vertical
4	7312.5	42.99	36.54	-43.71	35.82	54.00	18.18	285	8	Vertical
5	9748.0000	26.43	38.28	-39.46	25.25	54.00	28.75	147	165	Vertical
6	9748.0000	34.66	38.28	-39.46	33.48	74.00	40.52	159	165	Vertical



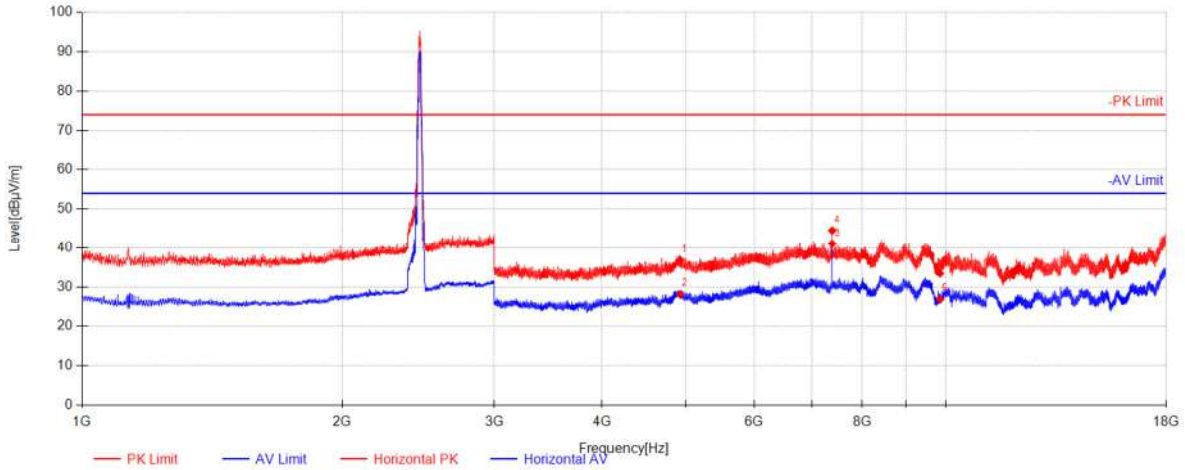
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802.11b_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.70	32.67	-45.56	36.81	74.00	37.19	278	218	Horizontal
2	4924.0000	41.00	32.67	-45.56	28.11	54.00	25.89	142	220	Horizontal
3	7386.0000	48.01	36.50	-43.46	41.05	54.00	12.95	236	136	Horizontal
4	7387	51.45	36.50	-43.45	44.49	74.00	29.51	145	136	Horizontal
5	9848.0000	34.54	38.28	-39.41	33.42	74.00	40.58	261	194	Horizontal
6	9848.0000	27.97	38.28	-39.41	26.85	54.00	27.15	261	1	Horizontal



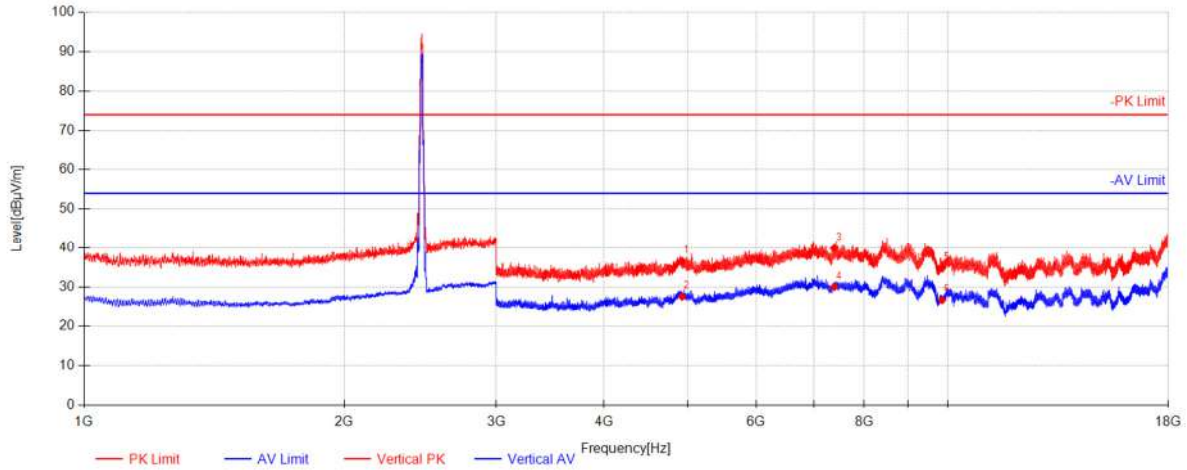
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802.11b_Channel 11



Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.45	32.67	-45.56	36.56	74.00	37.44	215	28	Vertical
2	4924.0000	40.40	32.67	-45.56	27.51	54.00	26.49	179	1	Vertical
3	7386.0000	46.81	36.50	-43.46	39.85	74.00	34.15	162	356	Vertical
4	7386.0000	36.94	36.50	-43.46	29.98	54.00	24.02	162	356	Vertical
5	9848.0000	36.01	38.28	-39.41	34.89	74.00	39.11	148	0	Vertical
6	9848.0000	27.76	38.28	-39.41	26.64	54.00	27.36	144	1	Vertical

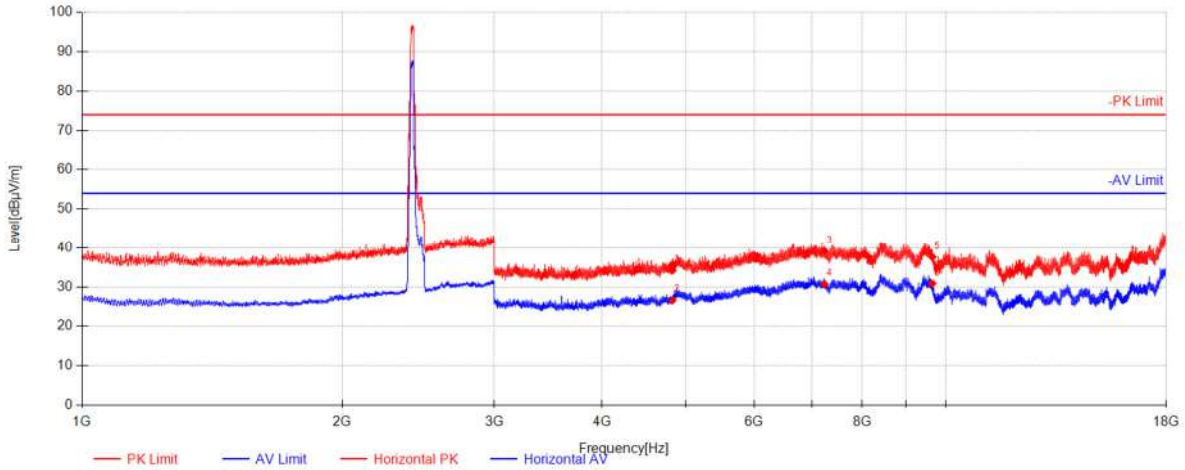


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802.11g_Channel 01



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	47.33	32.39	-45.54	34.18	74.00	39.82	214	275	Horizontal
2	4824.0000	39.74	32.39	-45.54	26.59	54.00	27.41	134	194	Horizontal
3	7236.0000	46.06	36.58	-43.54	39.10	74.00	34.90	169	220	Horizontal
4	7236.0000	37.60	36.58	-43.54	30.64	54.00	23.36	172	334	Horizontal
5	9648.0000	38.77	38.39	-39.56	37.60	74.00	36.40	125	25	Horizontal
6	9648.0000	32.00	38.39	-39.56	30.83	54.00	23.17	166	136	Horizontal



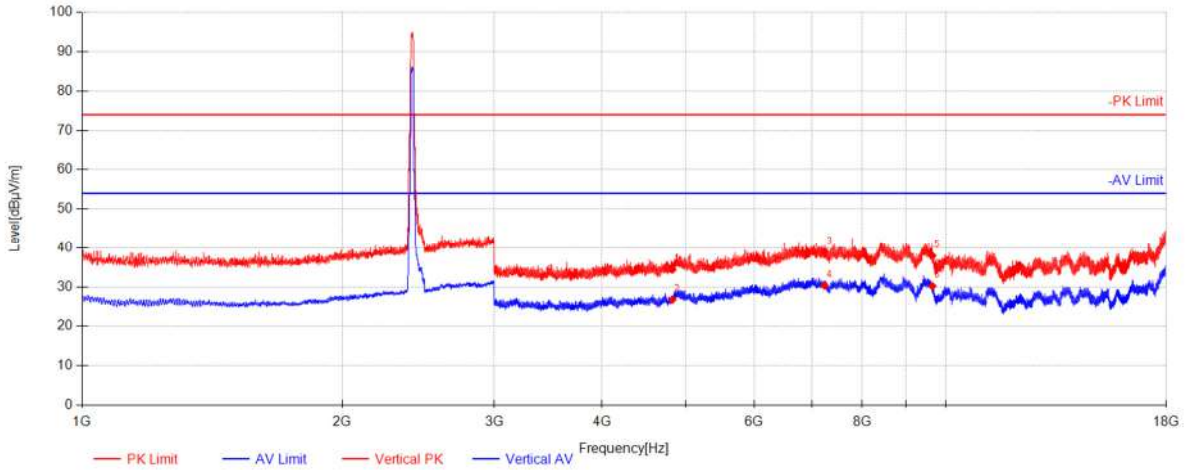
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802.11g_Channel 01



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1	4824.0000	47.54	32.39	-45.54	34.39	74.00	39.61	241	138	Vertical
2	4824.0000	39.88	32.39	-45.54	26.73	54.00	27.27	142	0	Vertical
3	7236.0000	45.92	36.58	-43.54	38.96	74.00	35.04	126	1	Vertical
4	7236.0000	37.30	36.58	-43.54	30.34	54.00	23.66	136	1	Vertical
5	9648.0000	39.10	38.39	-39.56	37.93	74.00	36.07	285	194	Vertical
6	9648.0000	31.38	38.39	-39.56	30.21	54.00	23.79	261	138	Vertical

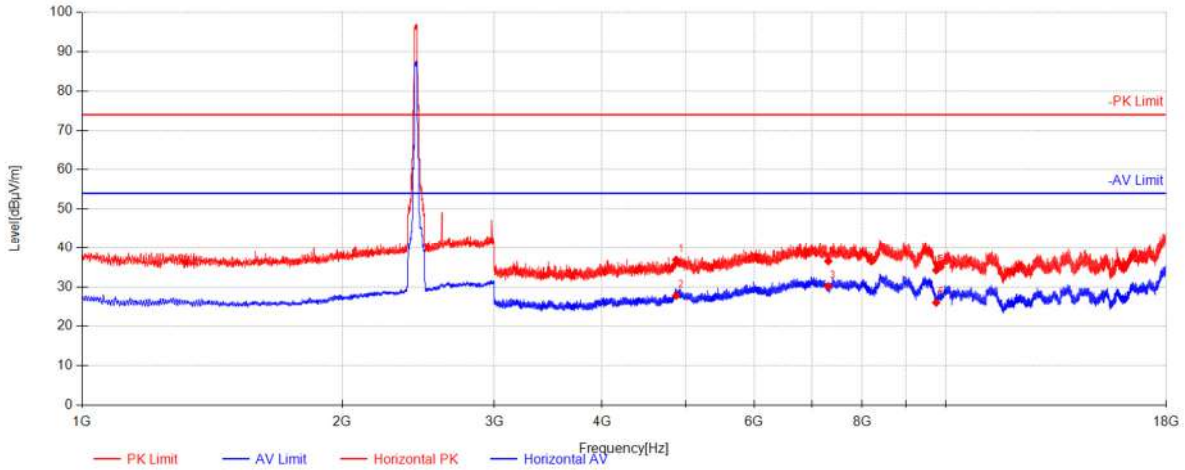


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802.11g_Channel 06



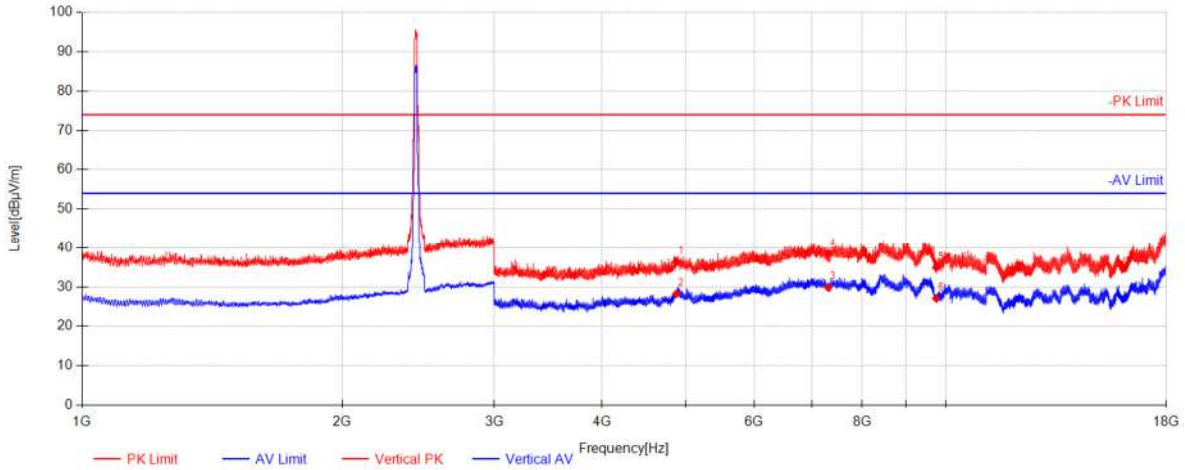
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.83	32.53	-45.53	36.82	74.00	37.18	185	220	Horizontal
2	4874.0000	40.77	32.53	-45.53	27.76	54.00	26.24	291	112	Horizontal
3	7311.0000	37.32	36.54	-43.71	30.15	54.00	23.85	142	307	Horizontal
4	7311.0000	43.68	36.54	-43.71	36.51	74.00	37.49	174	222	Horizontal
5	9748.0000	35.39	38.28	-39.46	34.21	74.00	39.79	126	278	Horizontal
6	9748.0000	27.17	38.28	-39.46	25.99	54.00	28.01	230	1	Horizontal



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802.11g_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.37	32.53	-45.53	36.36	74.00	37.64	185	249	Vertical
2	4874.0000	41.21	32.53	-45.53	28.20	54.00	25.80	142	0	Vertical
3	7311.0000	37.02	36.54	-43.71	29.85	54.00	24.15	126	305	Vertical
4	7311.0000	45.58	36.54	-43.71	38.41	74.00	35.59	142	164	Vertical
5	9748.0000	36.08	38.28	-39.46	34.90	74.00	39.10	261	223	Vertical
6	9748.0000	28.23	38.28	-39.46	27.05	54.00	26.95	177	276	Vertical



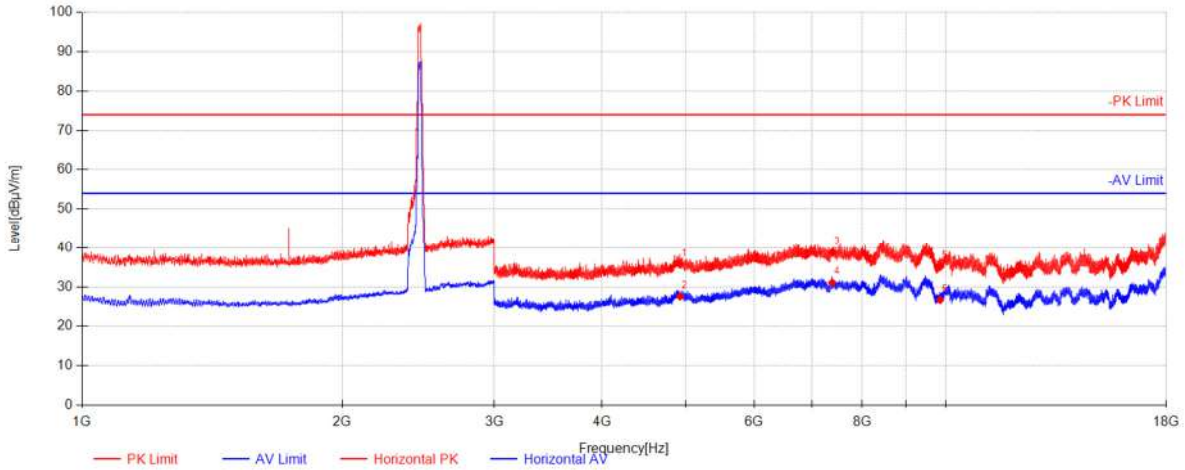
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802.11g_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.61	32.67	-45.56	35.72	74.00	38.28	245	139	Horizontal
2	4924.0000	40.45	32.67	-45.56	27.56	54.00	26.44	145	331	Horizontal
3	7386.0000	45.79	36.50	-43.46	38.83	74.00	35.17	236	55	Horizontal
4	7386.0000	38.03	36.50	-43.46	31.07	54.00	22.93	186	82	Horizontal
5	9848.0000	36.27	38.28	-39.41	35.15	74.00	38.85	215	164	Horizontal
6	9848.0000	27.81	38.28	-39.41	26.69	54.00	27.31	172	193	Horizontal

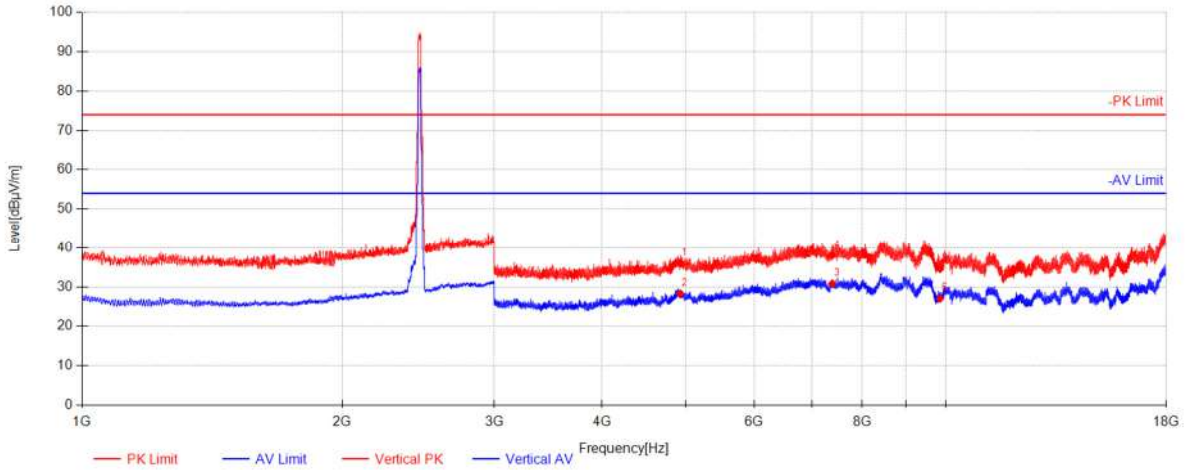


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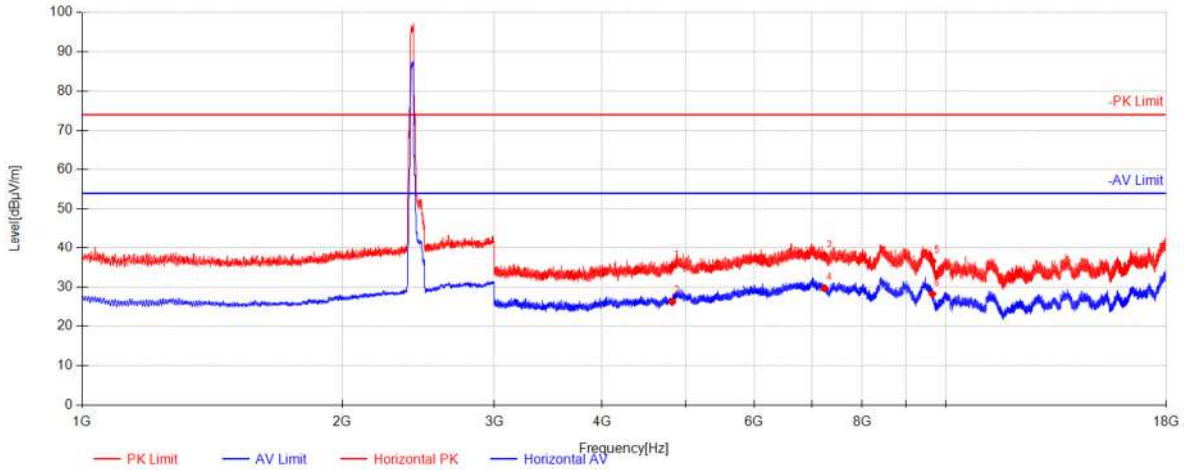
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.86	32.67	-45.56	35.97	74.00	38.03	147	7	Vertical
2	4924.0000	41.17	32.67	-45.56	28.28	54.00	25.72	142	165	Vertical
3	7386.0000	37.78	36.50	-43.46	30.82	54.00	23.18	128	250	Vertical
4	7386.0000	44.95	36.50	-43.46	37.99	74.00	36.01	132	8	Vertical
5	9848.0000	35.68	38.28	-39.41	34.56	74.00	39.44	260	55	Vertical
6	9848.0000	28.15	38.28	-39.41	27.03	54.00	26.97	190	139	Vertical



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802.11n20_Channel 01



Final 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	48.45	32.39	-45.54	35.30	74.00	38.70	152	239	Horizontal
2	4824.0000	39.34	32.39	-45.54	26.19	54.00	27.81	194	169	Horizontal
3	7236.0000	44.94	36.58	-43.54	37.98	74.00	36.02	236	42	Horizontal
4	7236.0000	36.61	36.58	-43.54	29.65	54.00	24.35	175	169	Horizontal
5	9648.0000	37.74	38.39	-39.56	36.57	74.00	37.43	128	197	Horizontal
6	9648.0000	29.37	38.39	-39.56	28.20	54.00	25.80	126	71	Horizontal



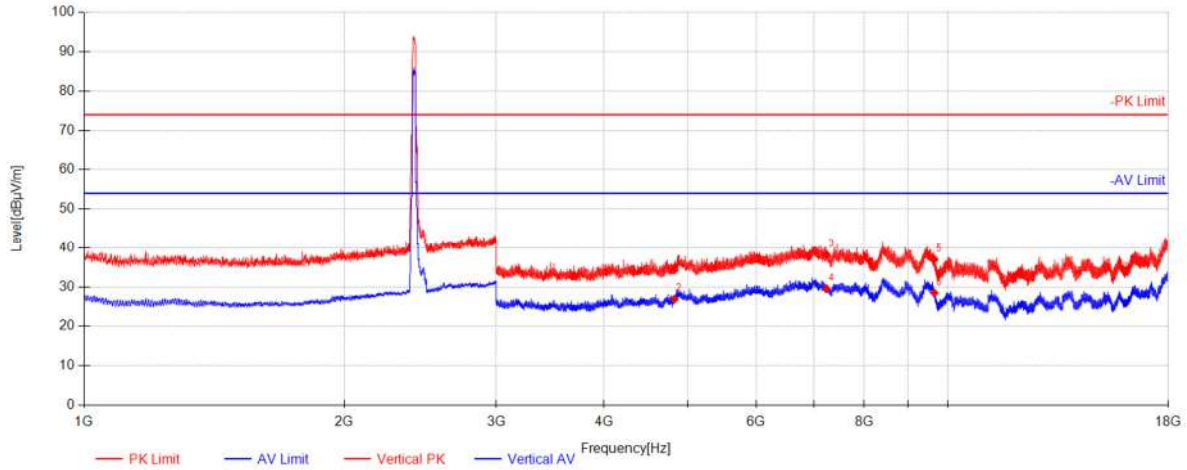
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802.11n20_Channel 01



Final 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	47.37	32.39	-45.54	34.22	74.00	39.78	162	26	Vertical
2	4824.0000	40.01	32.39	-45.54	26.86	54.00	27.14	175	331	Vertical
3	7236.0000	45.19	36.58	-43.54	38.23	74.00	35.77	155	221	Vertical
4	7236.0000	36.44	36.58	-43.54	29.48	54.00	24.52	142	109	Vertical
5	9648.0000	38.17	38.39	-39.56	37.00	74.00	37.00	148	276	Vertical
6	9648.0000	29.65	38.39	-39.56	28.48	54.00	25.52	136	3	Vertical



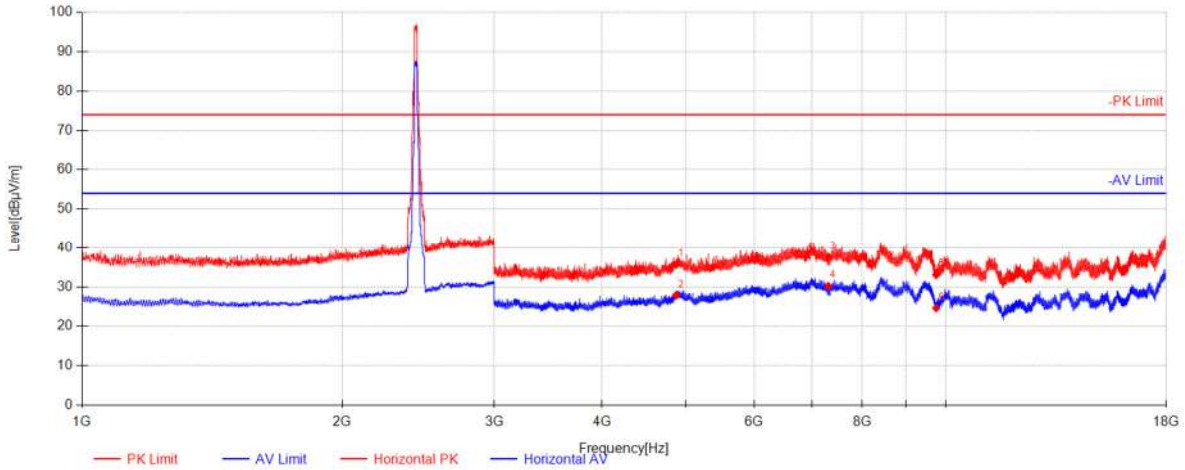
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802.11n20_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.64	32.53	-45.53	35.63	74.00	38.37	165	360	Horizontal
2	4874.0000	40.86	32.53	-45.53	27.85	54.00	26.15	143	84	Horizontal
3	7311.0000	44.72	36.54	-43.71	37.55	74.00	36.45	142	279	Horizontal
4	7311.0000	37.38	36.54	-43.71	30.21	54.00	23.79	266	84	Horizontal
5	9748.0000	34.21	38.28	-39.46	33.03	74.00	40.97	185	360	Horizontal
6	9748.0000	25.78	38.28	-39.46	24.60	54.00	29.40	291	336	Horizontal

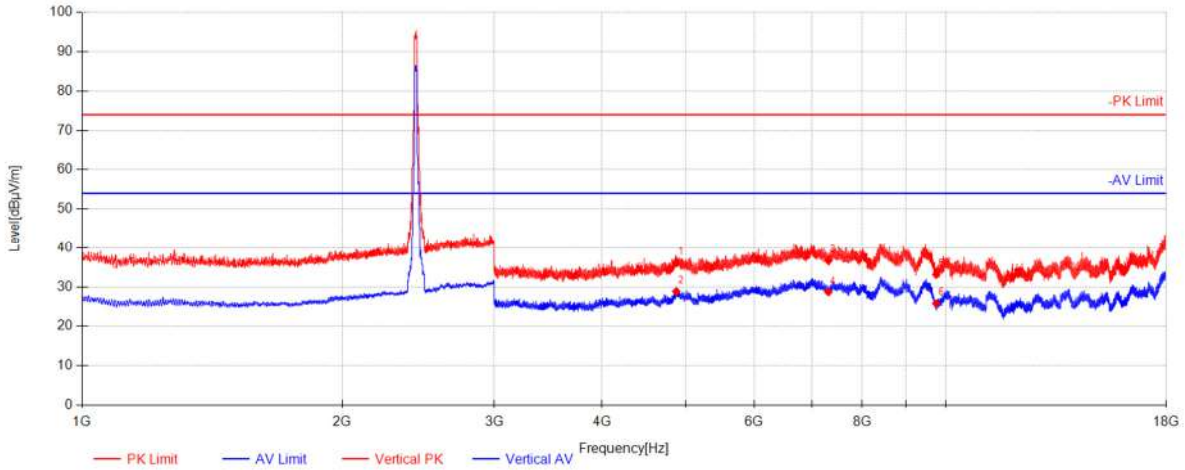


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802.11n20_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.13	32.53	-45.53	36.12	74.00	37.88	168	280	Vertical
2	4874.0000	41.85	32.53	-45.53	28.84	54.00	25.16	147	4	Vertical
3	7311.0000	43.85	36.54	-43.71	36.68	74.00	37.32	189	195	Vertical
4	7311.0000	35.87	36.54	-43.71	28.70	54.00	25.30	125	54	Vertical
5	9748.0000	34.28	38.28	-39.46	33.10	74.00	40.90	191	82	Vertical
6	9748.0000	26.95	38.28	-39.46	25.77	54.00	28.23	143	26	Vertical



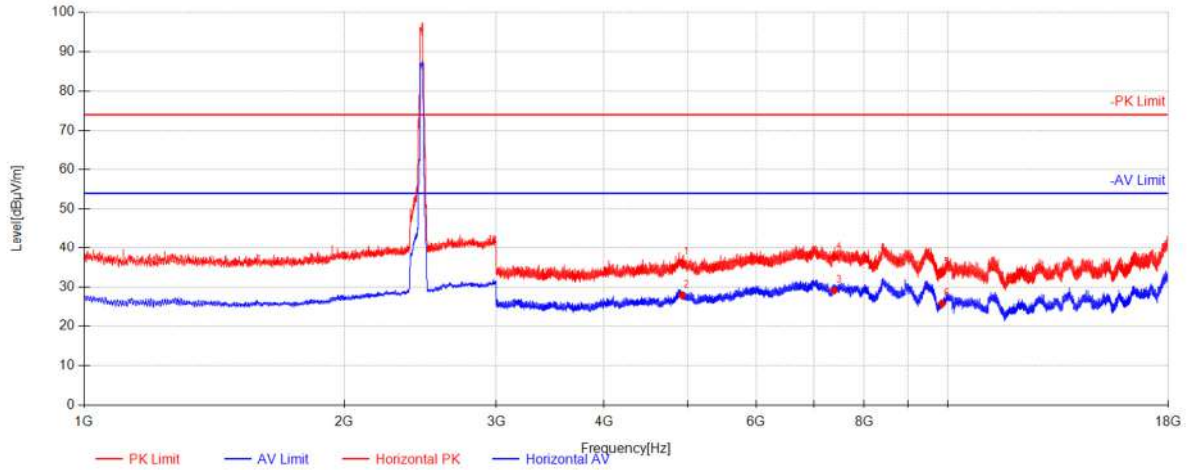
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802.11n20_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.89	32.67	-45.56	36.00	74.00	38.00	165	251	Horizontal
2	4924.0000	40.71	32.67	-45.56	27.82	54.00	26.18	142	167	Horizontal
3	7386.0000	36.02	36.50	-43.46	29.06	54.00	24.94	133	251	Horizontal
4	7386.0000	44.56	36.50	-43.46	37.60	74.00	36.40	142	360	Horizontal
5	9848.0000	34.73	38.28	-39.41	33.61	74.00	40.39	125	169	Horizontal
6	9848.0000	26.82	38.28	-39.41	25.70	54.00	28.30	199	167	Horizontal



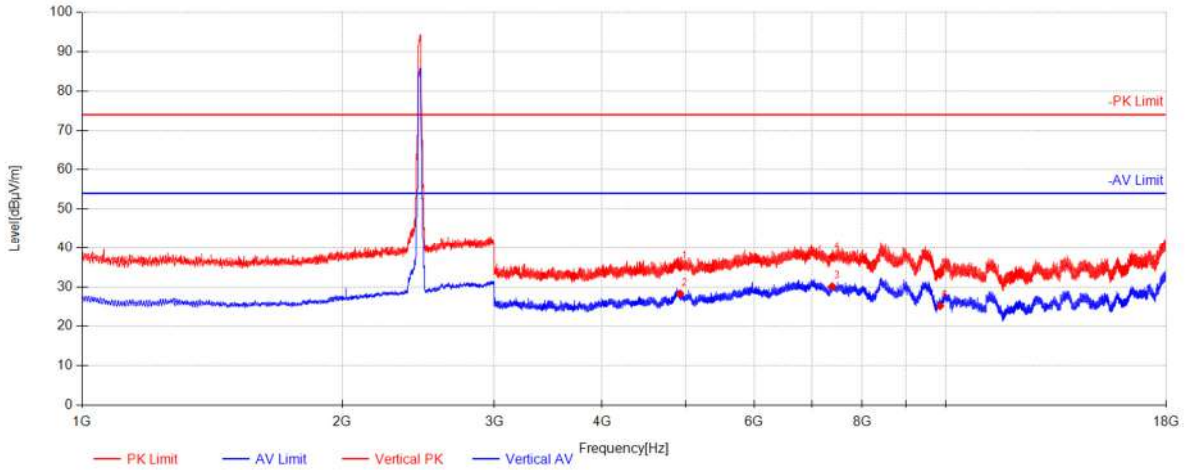
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	47.82	32.67	-45.56	34.93	74.00	39.07	184	84	Vertical
2	4924.0000	41.14	32.67	-45.56	28.25	54.00	25.75	192	335	Vertical
3	7386.0000	37.05	36.50	-43.46	30.09	54.00	23.91	172	278	Vertical
4	7386.0000	44.60	36.50	-43.46	37.64	74.00	36.36	253	197	Vertical
5	9848.0000	34.27	38.28	-39.41	33.15	74.00	40.85	261	360	Vertical
6	9848.0000	26.27	38.28	-39.41	25.15	54.00	28.85	133	55	Vertical

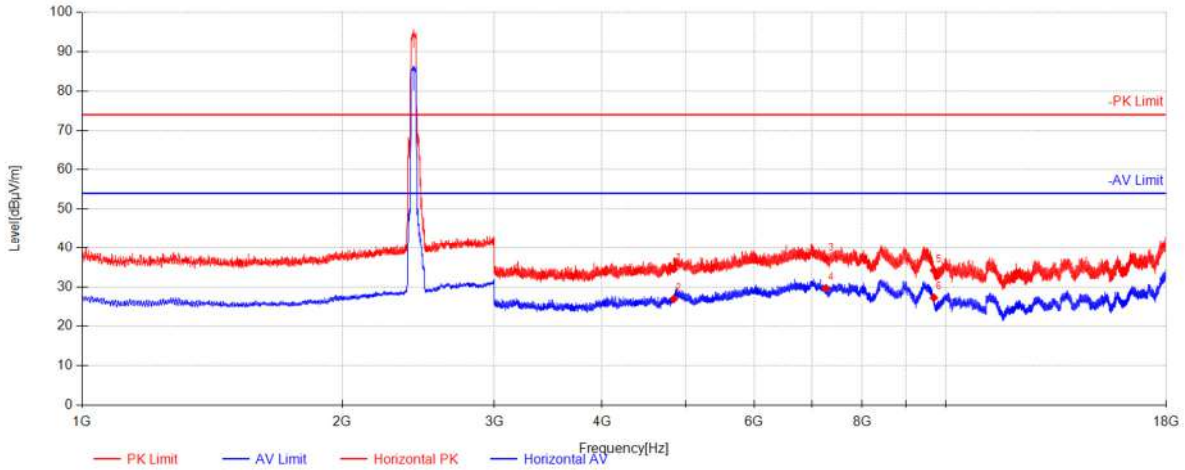


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802.11n40_Channel 03



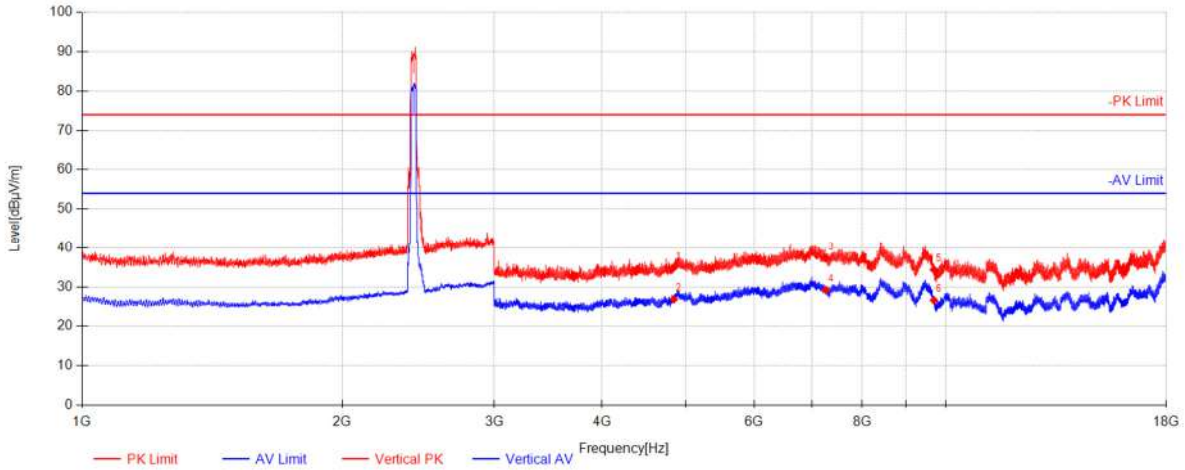
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1	4844.0000	47.62	32.44	-45.54	34.53	74.00	39.47	214	4	Horizontal
2	4844.0000	40.03	32.44	-45.54	26.94	54.00	27.06	142	360	Horizontal
3	7266.0000	44.14	36.56	-43.64	37.07	74.00	36.93	199	360	Horizontal
4	7266.0000	36.72	36.56	-43.64	29.65	54.00	24.35	233	110	Horizontal
5	9688.0000	35.27	38.34	-39.47	34.15	74.00	39.85	251	331	Horizontal
6	9688.0000	28.36	38.34	-39.47	27.24	54.00	26.76	163	166	Horizontal



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Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0000	48.00	32.44	-45.54	34.91	74.00	39.09	284	352	Vertical
2	4844.0000	39.94	32.44	-45.54	26.85	54.00	27.15	266	194	Vertical
3	7266.0000	44.38	36.56	-43.64	37.31	74.00	36.69	145	194	Vertical
4	7266.0000	36.25	36.56	-43.64	29.18	54.00	24.82	155	26	Vertical
5	9688.0000	35.48	38.34	-39.47	34.36	74.00	39.64	236	359	Vertical
6	9688.0000	27.72	38.34	-39.47	26.60	54.00	27.40	197	194	Vertical



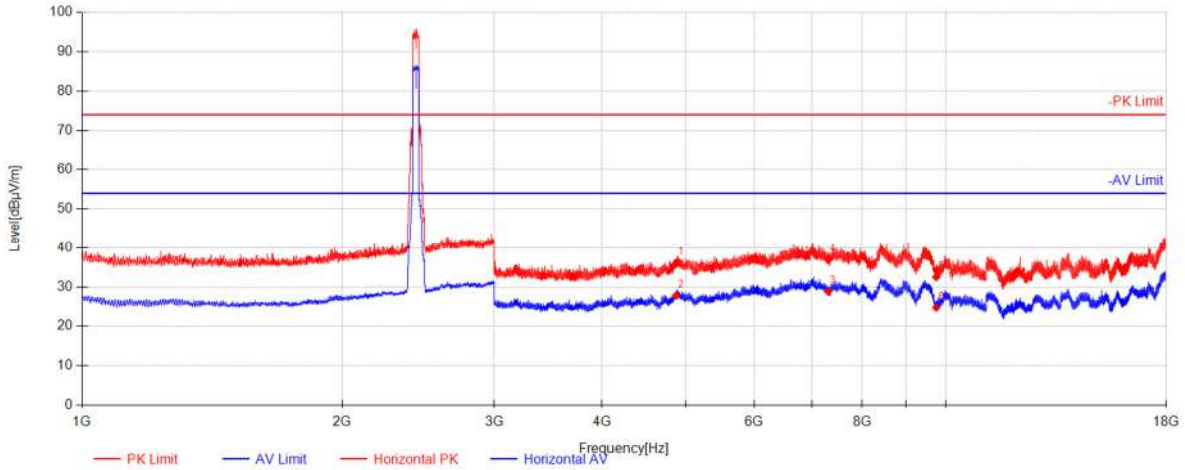
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802.11n40_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.03	32.53	-45.53	36.02	74.00	37.98	245	222	Horizontal
2	4874.0000	40.80	32.53	-45.53	27.79	54.00	26.21	172	352	Horizontal
3	7311.0000	36.01	36.54	-43.71	28.84	54.00	25.16	130	56	Horizontal
4	7311.0000	44.13	36.54	-43.71	36.96	74.00	37.04	198	140	Horizontal
5	9748.0000	33.68	38.28	-39.46	32.50	74.00	41.50	145	166	Horizontal
6	9748.0000	25.95	38.28	-39.46	24.77	54.00	29.23	123	140	Horizontal

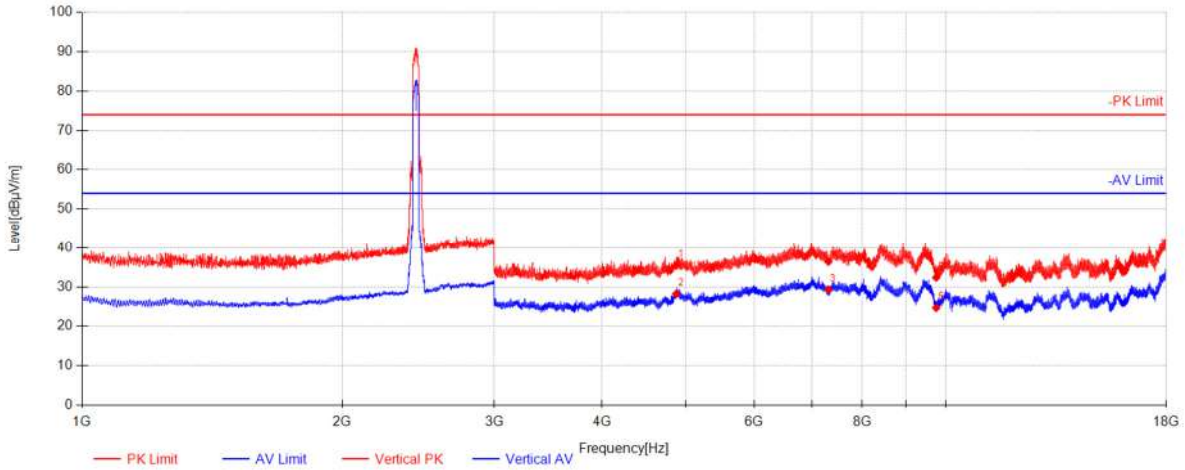


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802.11n40_Channel 06



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.39	32.53	-45.53	35.38	74.00	38.62	187	276	Vertical
2	4874.0000	41.23	32.53	-45.53	28.22	54.00	25.78	155	352	Vertical
3	7311.0000	36.52	36.54	-43.71	29.35	54.00	24.65	136	352	Vertical
4	7311.0000	43.55	36.54	-43.71	36.38	74.00	37.62	145	84	Vertical
5	9748.0000	33.52	38.28	-39.46	32.34	74.00	41.66	291	360	Vertical
6	9748.0000	25.85	38.28	-39.46	24.67	54.00	29.33	261	112	Vertical



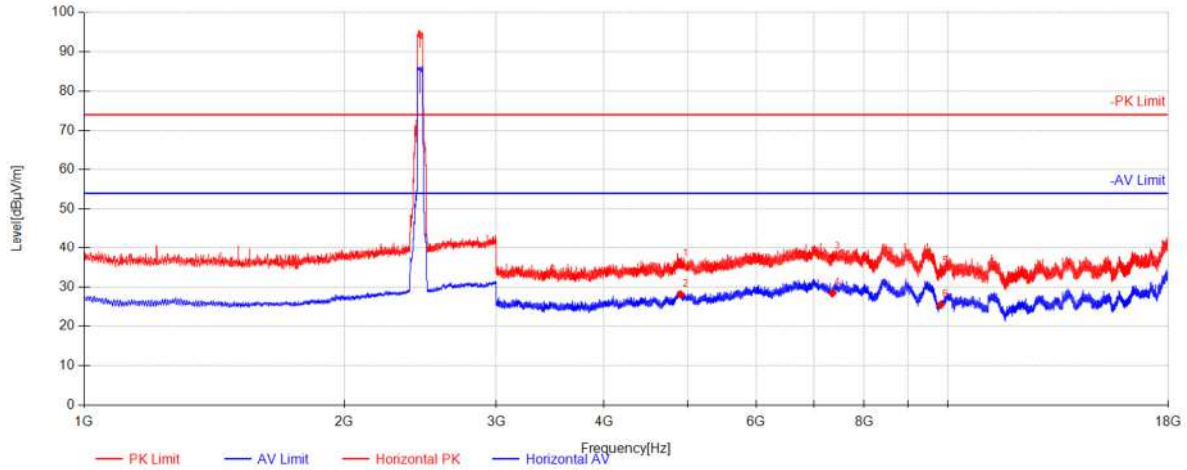
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802.11n40_Channel 09



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	48.48	32.61	-45.53	35.56	74.00	38.44	154	335	Horizontal
2	4904.0000	40.98	32.61	-45.53	28.06	54.00	25.94	233	196	Horizontal
3	7356.0000	44.67	36.51	-43.56	37.62	74.00	36.38	175	354	Horizontal
4	7356.0000	35.47	36.51	-43.56	28.42	54.00	25.58	261	195	Horizontal
5	9808.0000	35.04	38.23	-39.47	33.80	74.00	40.20	142	360	Horizontal
6	9808.0000	26.64	38.23	-39.47	25.40	54.00	28.60	199	57	Horizontal



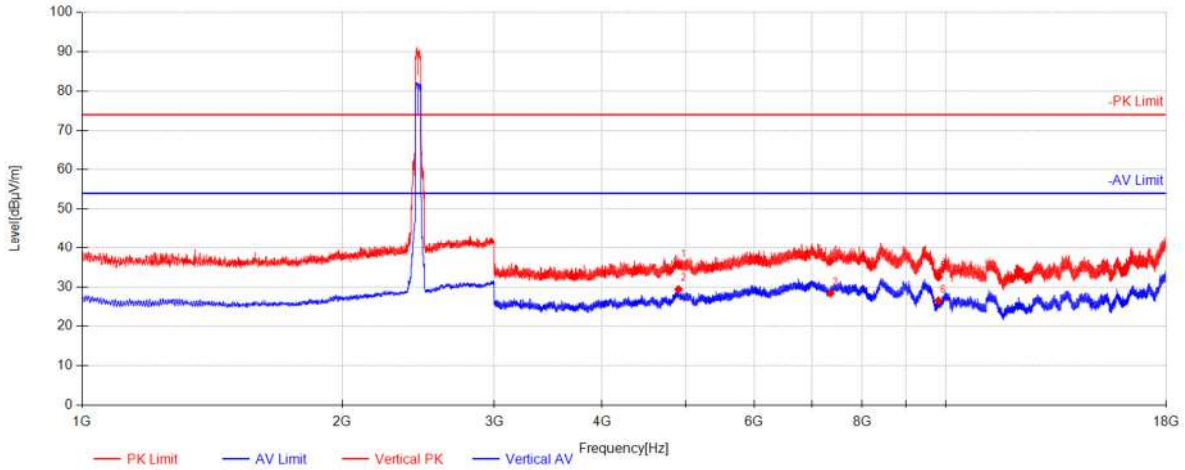
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802.11n40_Channel 09



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	48.30	32.61	-45.53	35.38	74.00	38.62	274	354	Vertical
2	4904.0000	42.29	32.61	-45.53	29.37	54.00	24.63	291	195	Vertical
3	7356.0000	35.42	36.51	-43.56	28.37	54.00	25.63	145	354	Vertical
4	7356.0000	43.53	36.51	-43.56	36.48	74.00	37.52	145	111	Vertical
5	9808.0000	33.67	38.23	-39.47	32.43	74.00	41.57	261	359	Vertical
6	9808.0000	27.77	38.23	-39.47	26.53	54.00	27.47	130	360	Vertical



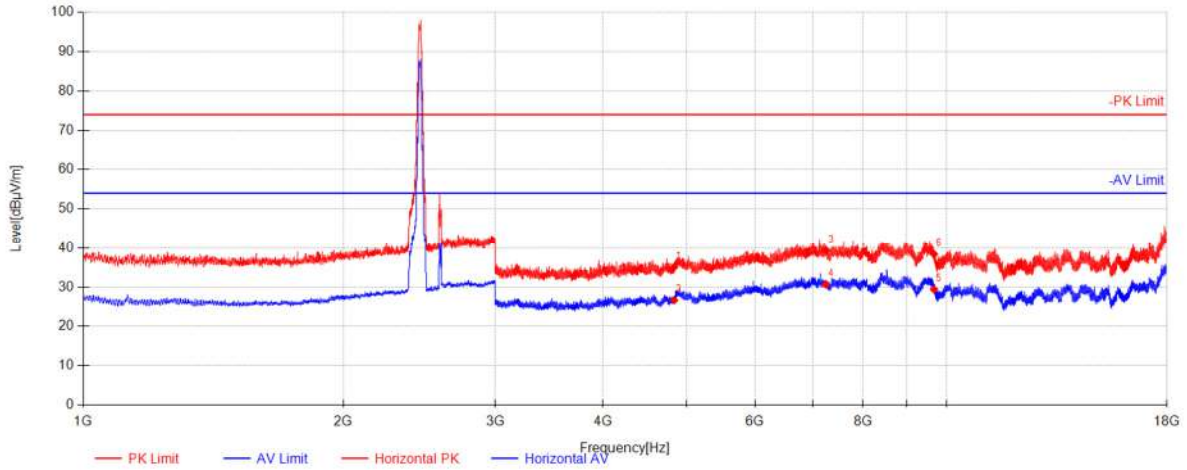
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802.11g_Channel 10



Final 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	4834.0000	48.18	32.42	-45.54	35.06	74.00	38.94	162	55	Horizontal
2	4834.0000	39.76	32.42	-45.54	26.64	54.00	27.36	122	54	Horizontal
3	7251.0000	46.42	36.57	-43.59	39.40	74.00	34.60	130	165	Horizontal
4	7251.0000	37.68	36.57	-43.59	30.66	54.00	23.34	150	251	Horizontal
5	9668.0000	30.58	38.37	-39.51	29.43	54.00	24.57	199	278	Horizontal
6	9668.0000	39.57	38.37	-39.51	38.42	74.00	35.58	148	222	Horizontal



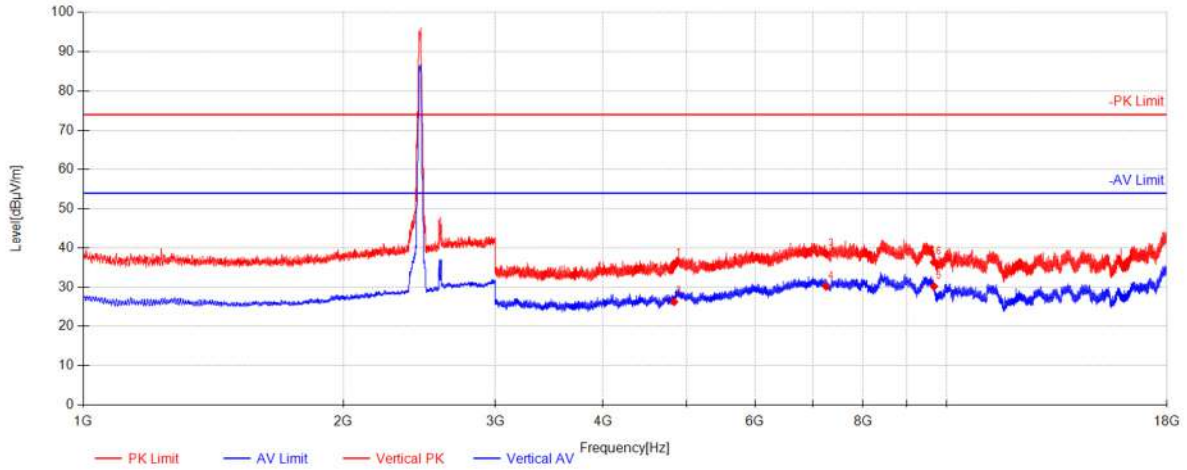
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802.11g_Channel 10



Final 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	4834.0000	49.07	32.42	-45.54	35.95	74.00	38.05	155	352	Vertical
2	4834.0000	39.36	32.42	-45.54	26.24	54.00	27.76	103	222	Vertical
3	7251.0000	45.47	36.57	-43.59	38.45	74.00	35.55	142	109	Vertical
4	7251.0000	37.18	36.57	-43.59	30.16	54.00	23.84	175	331	Vertical
5	9668.0000	31.33	38.37	-39.51	30.18	54.00	23.82	194	28	Vertical
6	9668.0000	37.44	38.37	-39.51	36.29	74.00	37.71	186	136	Vertical



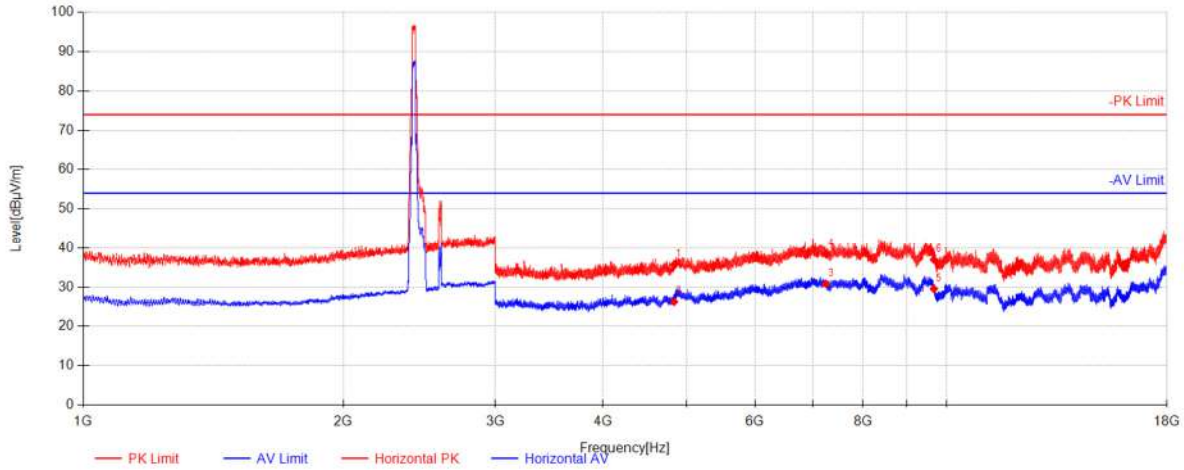
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802.11n20_Channel 02



Final Data List										
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1	4834.0000	48.86	32.42	-45.54	35.74	74.00	38.26	126	166	Horizontal
2	4834.0000	39.38	32.42	-45.54	26.26	54.00	27.74	169	222	Horizontal
3	7251.0000	37.79	36.57	-43.59	30.77	54.00	23.23	122	278	Horizontal
4	7251.0000	45.43	36.57	-43.59	38.41	74.00	35.59	148	139	Horizontal
5	9668.0000	30.70	38.37	-39.51	29.55	54.00	24.45	130	138	Horizontal
6	9668.0000	38.10	38.37	-39.51	36.95	74.00	37.05	175	250	Horizontal



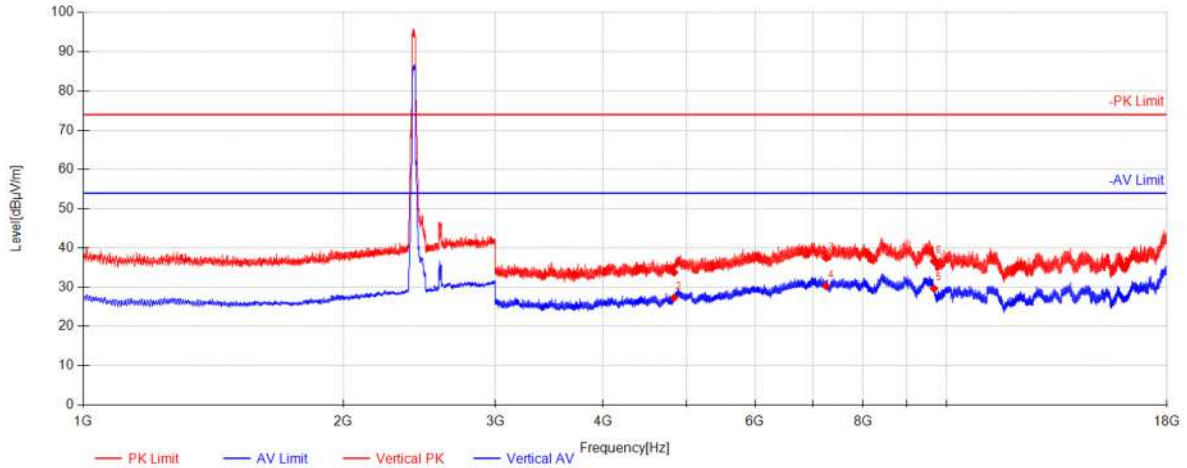
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802.11n20_Channel 02



Final 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	4834.0000	46.88	32.42	-45.54	33.76	74.00	40.24	125	359	Vertical
2	4834.0000	40.43	32.42	-45.54	27.31	54.00	26.69	120	332	Vertical
3	7251.0000	44.44	36.57	-43.59	37.42	74.00	36.58	146	220	Vertical
4	7251.0000	37.29	36.57	-43.59	30.27	54.00	23.73	194	26	Vertical
5	9668.0000	30.77	38.37	-39.51	29.62	54.00	24.38	178	194	Vertical
6	9668.0000	37.71	38.37	-39.51	36.56	74.00	37.44	133	3	Vertical

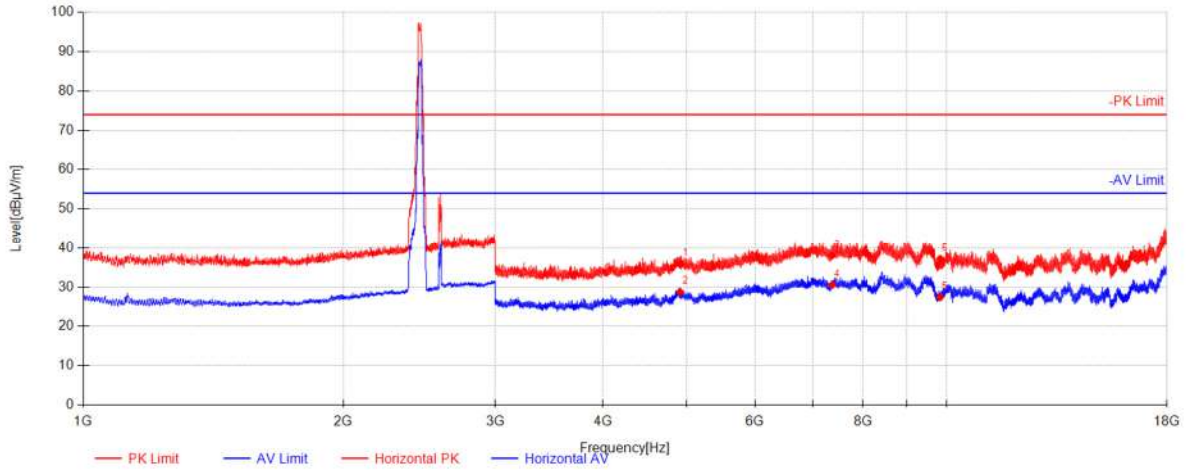


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802.11n20_Channel 10



Final 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	4914.0000	48.68	32.64	-45.55	35.77	74.00	38.23	122	139	Horizontal
2	4914.0000	41.65	32.64	-45.55	28.74	54.00	25.26	184	167	Horizontal
3	7371.0000	45.06	36.51	-43.51	38.06	74.00	35.94	265	84	Horizontal
4	7371.0000	37.56	36.51	-43.51	30.56	54.00	23.44	195	280	Horizontal
5	9828.0000	28.60	38.26	-39.44	27.42	54.00	26.58	174	251	Horizontal
6	9828.0000	38.37	38.26	-39.44	37.19	74.00	36.81	134	196	Horizontal

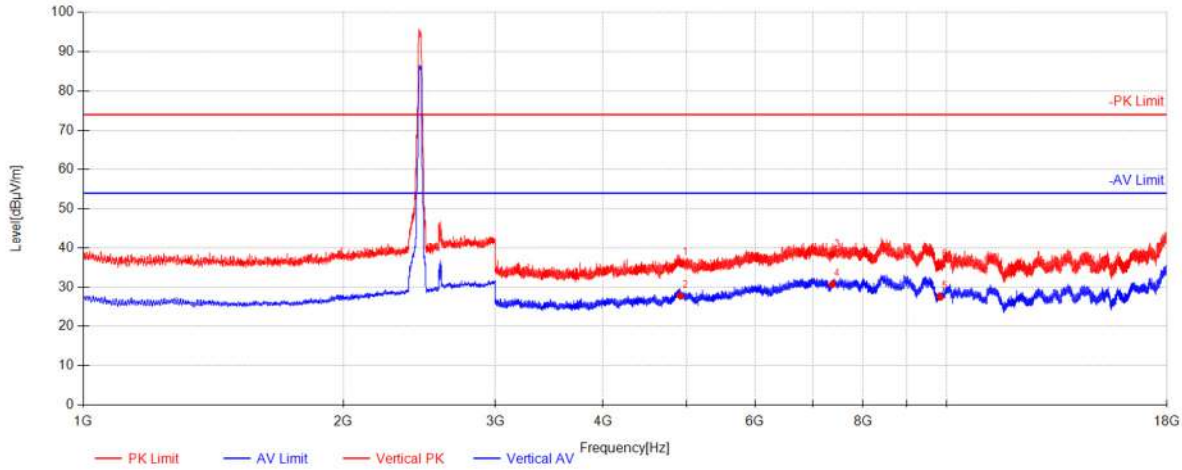


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802.11n20_Channel 10



Final 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	4914.0000	49.04	32.64	-45.55	36.13	74.00	37.87	214	279	Vertical
2	4914.0000	40.70	32.64	-45.55	27.79	54.00	26.21	193	140	Vertical
3	7371.0000	45.30	36.51	-43.51	38.30	74.00	35.70	126	359	Vertical
4	7371.0000	37.73	36.51	-43.51	30.73	54.00	23.27	142	195	Vertical
5	9828.0000	28.71	38.26	-39.44	27.53	54.00	26.47	185	112	Vertical
6	9828.0000	36.78	38.26	-39.44	35.60	74.00	38.40	169	83	Vertical



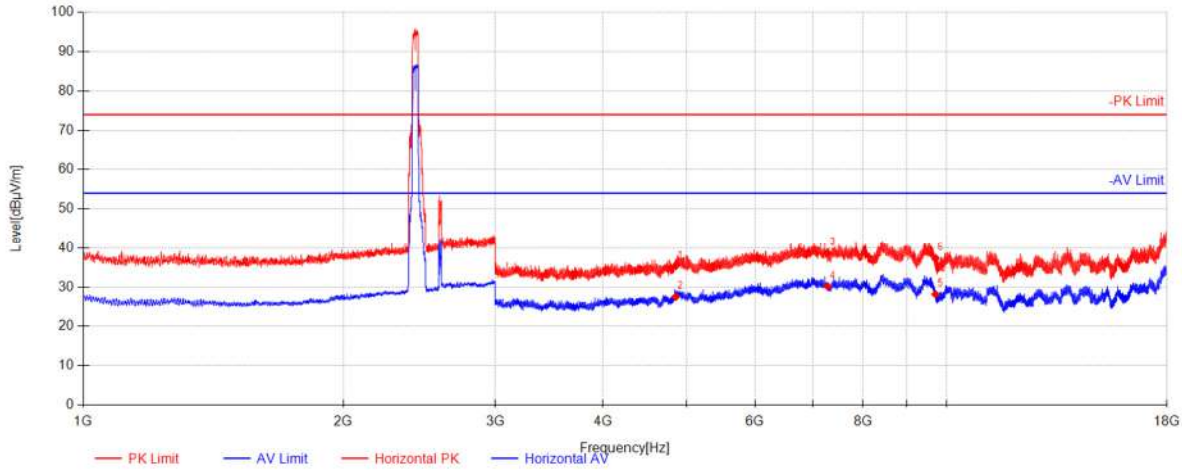
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802.11n40_Channel 04



Final 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	4854.0000	48.38	32.47	-45.53	35.32	74.00	38.68	142	82	Horizontal
2	4854.0000	40.56	32.47	-45.53	27.50	54.00	26.50	130	82	Horizontal
3	7281.0000	45.76	36.56	-43.69	38.63	74.00	35.37	122	111	Horizontal
4	7281.0000	37.31	36.56	-43.69	30.18	54.00	23.82	175	28	Horizontal
5	9708.0000	29.30	38.32	-39.44	28.18	54.00	25.82	148	277	Horizontal
6	9708.0000	38.51	38.32	-39.44	37.39	74.00	36.61	261	224	Horizontal



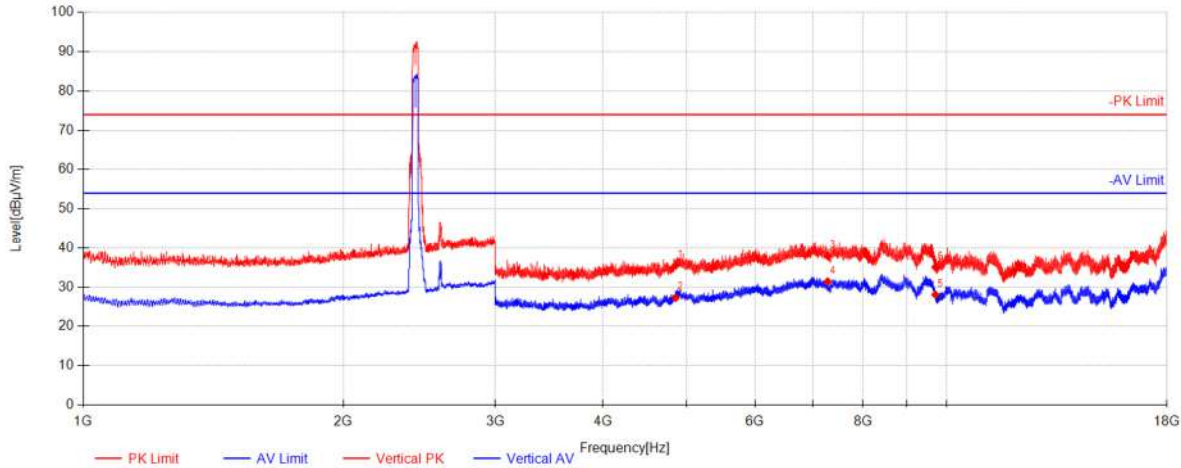
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802.11n40_Channel 04



Final 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	4854.0000	48.53	32.47	-45.53	35.47	74.00	38.53	155	169	Vertical
2	4854.0000	40.31	32.47	-45.53	27.25	54.00	26.75	174	360	Vertical
3	7281.0000	45.04	36.56	-43.69	37.91	74.00	36.09	184	4	Vertical
4	7281.0000	38.56	36.56	-43.69	31.43	54.00	22.57	130	359	Vertical
5	9708.0000	29.17	38.32	-39.44	28.05	54.00	25.95	196	359	Vertical
6	9708.0000	36.17	38.32	-39.44	35.05	74.00	38.95	126	84	Vertical

Remark:

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

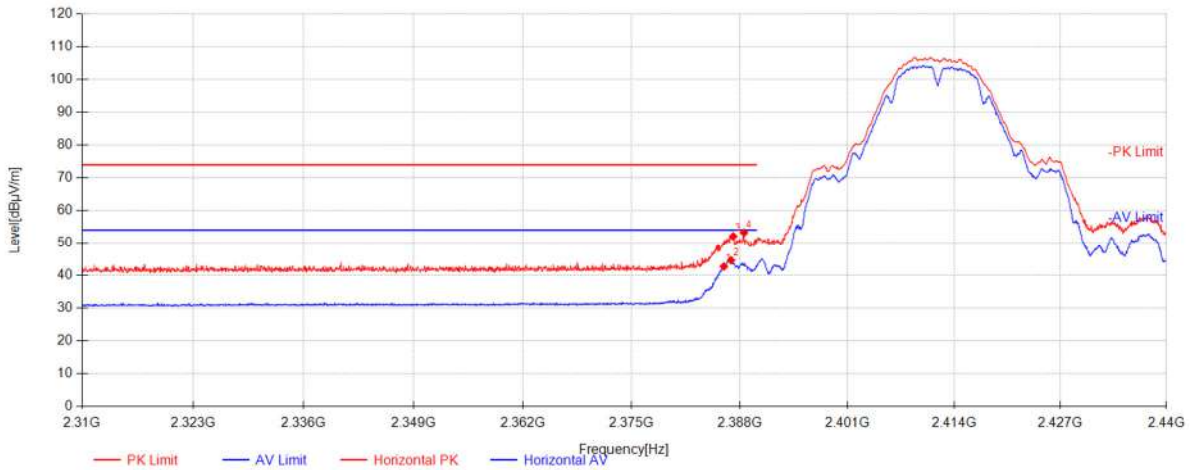


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Restricted bands around fundamental frequency

802.11b_Channel 01



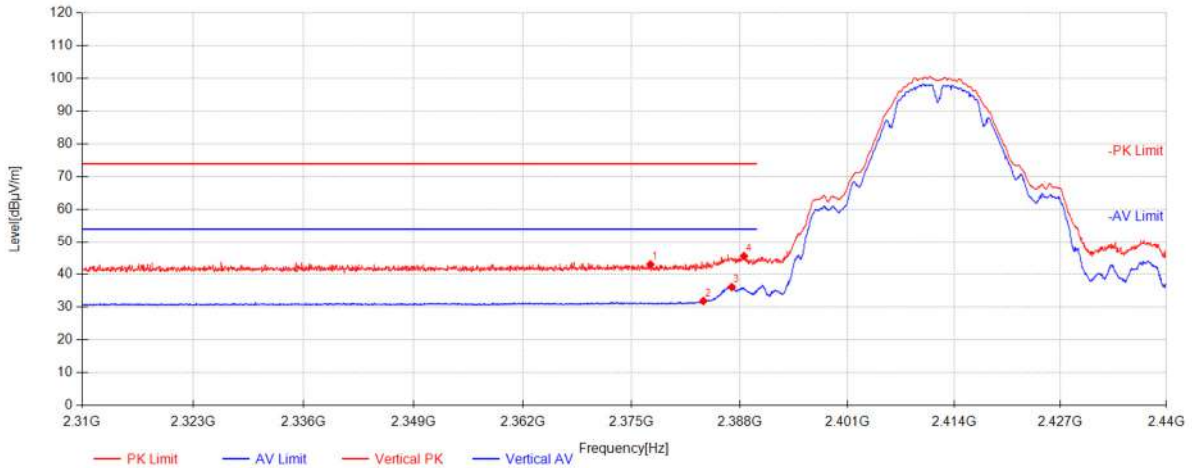
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.0933	38.82	27.43	-23.57	42.68	54.00	11.32	111	91	Horizontal
2	2386.96	40.71	27.43	-23.57	44.57	54.00	9.43	111	91	Horizontal
3	2387.22	48.28	27.43	-23.57	52.14	74.00	21.86	111	91	Horizontal
4	2388.52	49.38	27.43	-23.57	53.24	74.00	20.76	111	91	Horizontal



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802.11b_Channel 01



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.2533	39.11	27.43	-23.57	42.97	74.00	31.03	236	304	Vertical
2	2383.6233	27.96	27.43	-23.57	31.82	54.00	22.18	236	304	Vertical
3	2387.0467	32.20	27.43	-23.57	36.06	54.00	17.94	236	304	Vertical
4	2388.52	41.65	27.43	-23.57	45.51	74.00	28.49	236	304	Vertical



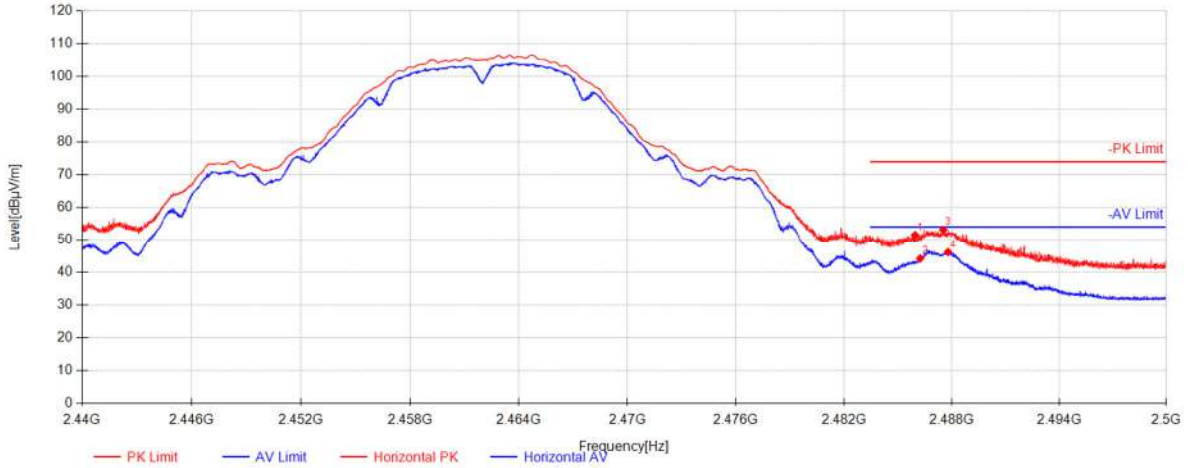
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802.11b_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.975	47.40	27.72	-23.54	51.58	74.00	22.42	214	72	Horizontal
2	2486.2525	40.04	27.72	-23.54	44.22	54.00	9.78	214	72	Horizontal
3	2487.5425	48.99	27.73	-23.54	53.18	74.00	20.82	214	72	Horizontal
4	2487.805	41.99	27.73	-23.54	46.18	54.00	7.82	214	72	Horizontal



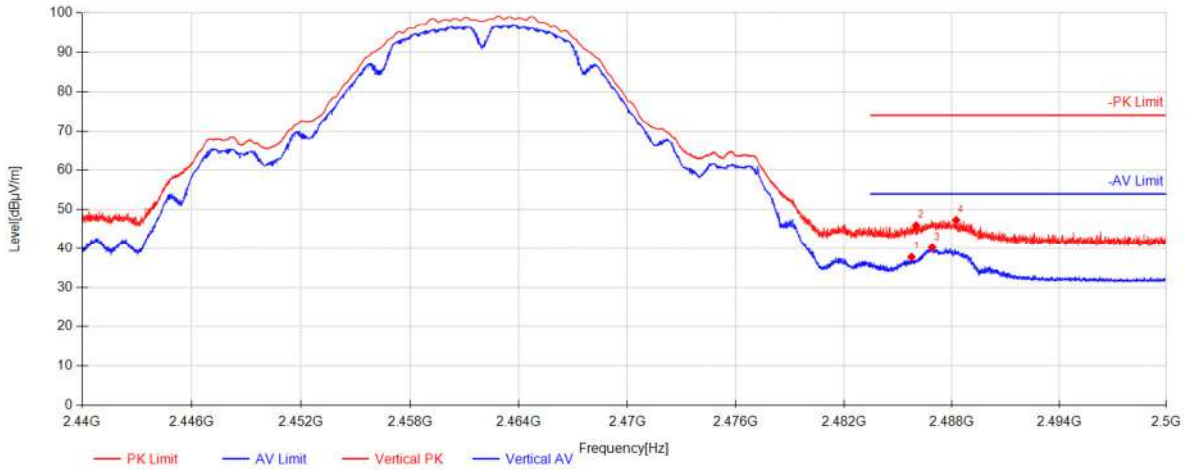
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.7725	33.54	27.72	-23.54	37.72	54.00	16.28	265	243	Vertical
2	2486.0275	41.75	27.72	-23.54	45.93	74.00	28.07	265	243	Vertical
3	2486.92	36.01	27.73	-23.54	40.19	54.00	13.81	265	243	Vertical
4	2488.255	43.12	27.73	-23.54	47.31	74.00	26.69	265	243	Vertical



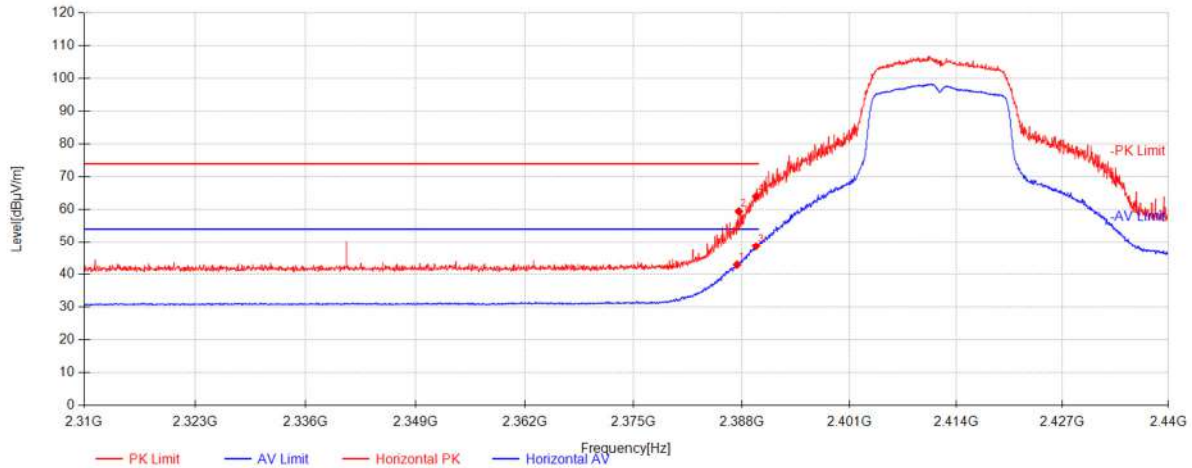
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802.11g_Channel 01



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.4367	39.02	27.43	-23.57	42.88	54.00	11.12	222	80	Horizontal
2	2387.6533	55.61	27.43	-23.57	59.47	74.00	14.53	222	80	Horizontal
3	2389.7333	44.77	27.43	-23.57	48.63	54.00	5.37	222	80	Horizontal
4	2389.7333	60.15	27.43	-23.57	64.01	74.00	9.99	222	80	Horizontal

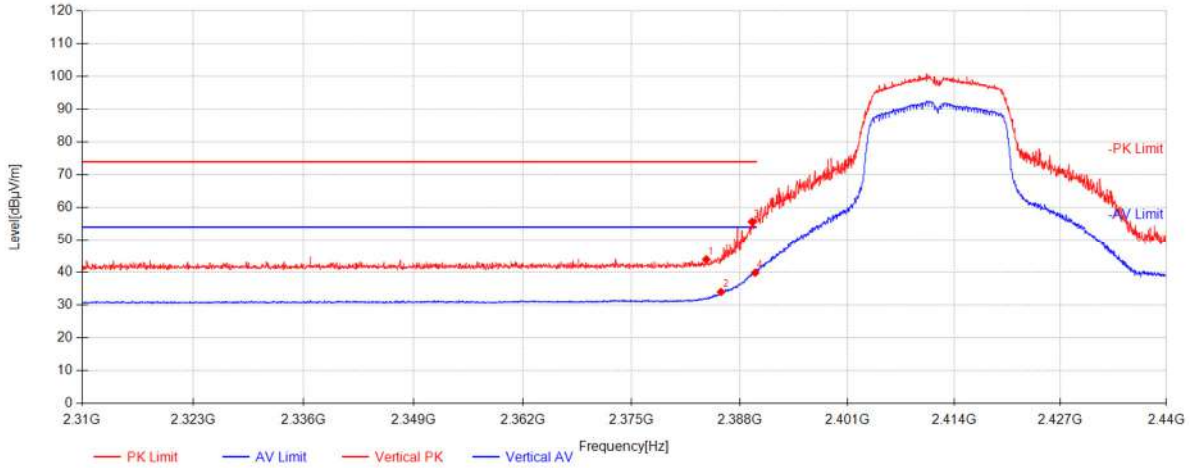


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Final Data List										
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1	2383.97	40.03	27.43	-23.57	43.89	74.00	30.11	296	239	Vertical
2	2385.7467	30.09	27.43	-23.57	33.95	54.00	20.05	296	239	Vertical
3	2389.4733	51.81	27.43	-23.57	55.67	74.00	18.33	296	239	Vertical
4	2389.8633	35.98	27.43	-23.57	39.84	54.00	14.16	296	239	Vertical

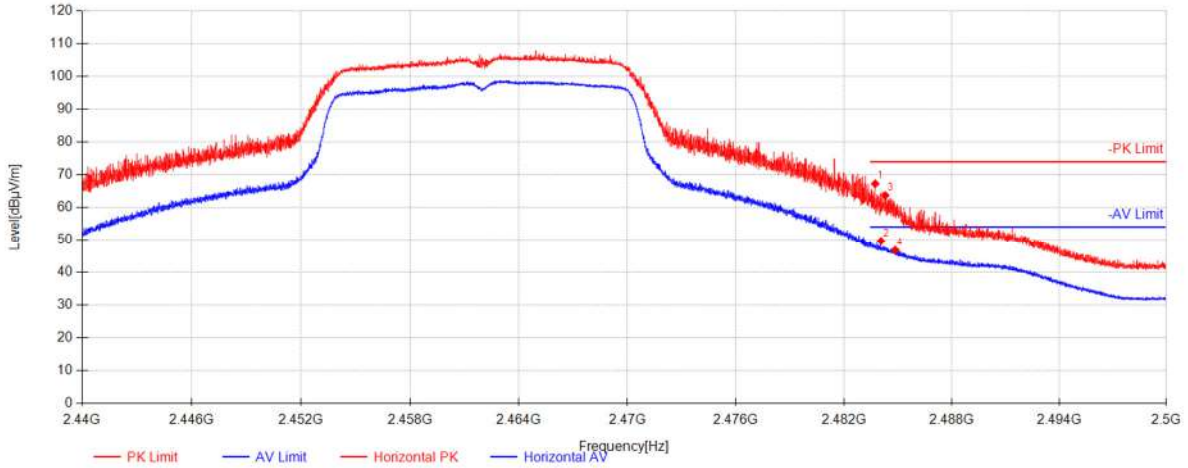


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1	2483.7475	63.12	27.72	-23.54	67.29	74.00	6.71	185	99	Horizontal
2	2484.07	45.49	27.72	-23.54	49.66	54.00	4.34	185	99	Horizontal
3	2484.31	59.56	27.72	-23.54	63.73	74.00	10.27	185	99	Horizontal
4	2484.865	42.60	27.72	-23.54	46.78	54.00	7.22	185	99	Horizontal



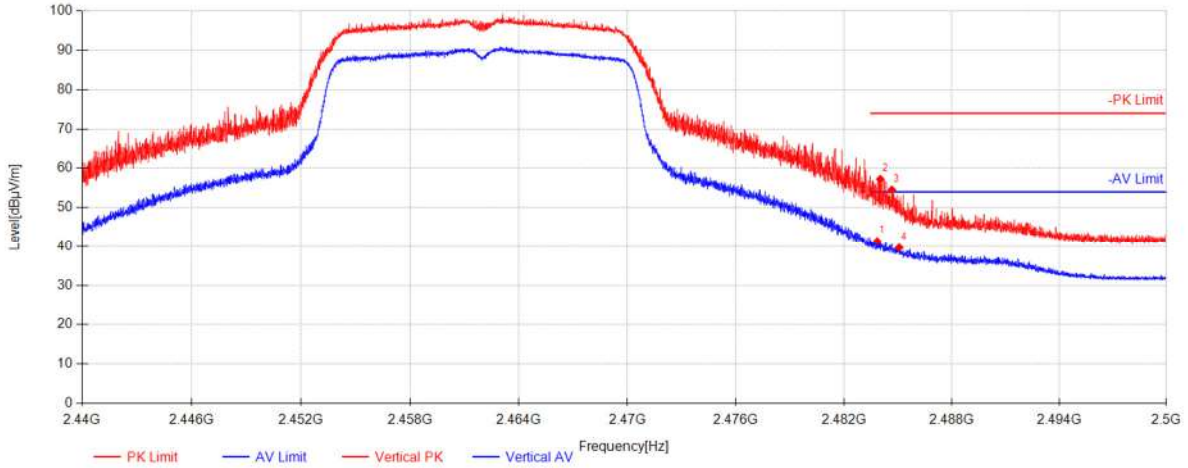
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1	2483.86	37.19	27.72	-23.54	41.36	54.00	12.64	142	243	Vertical
2	2484.0325	53.09	27.72	-23.54	57.26	74.00	16.74	142	243	Vertical
3	2484.6775	50.38	27.72	-23.54	54.55	74.00	19.45	142	243	Vertical
4	2485.0825	35.45	27.72	-23.54	39.63	54.00	14.37	142	243	Vertical

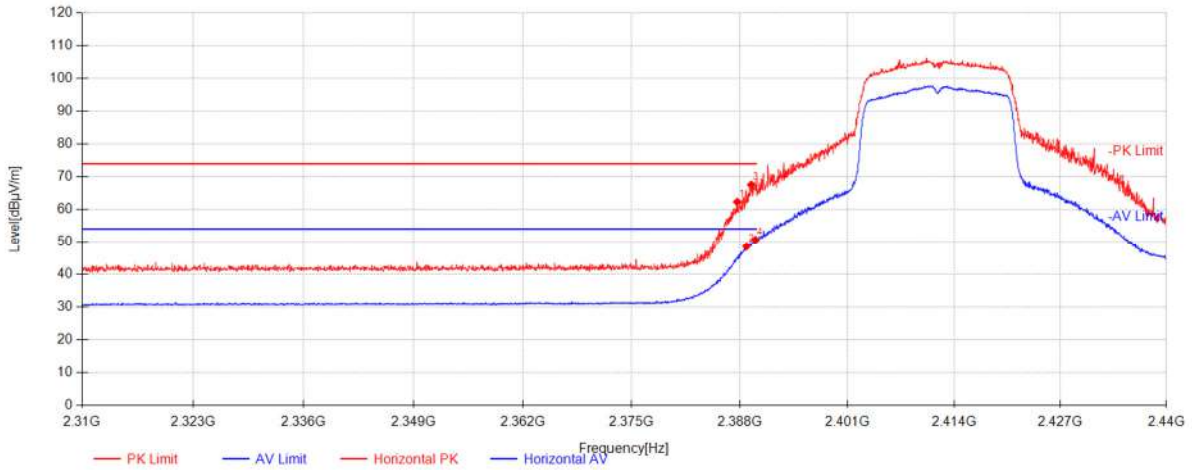


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1	2387.6967	58.47	27.43	-23.57	62.33	74.00	11.67	265	85	Horizontal
2	2388.8233	44.76	27.43	-23.57	48.62	54.00	5.38	265	85	Horizontal
3	2389.3867	63.74	27.43	-23.57	67.60	74.00	6.40	265	85	Horizontal
4	2389.9067	46.83	27.43	-23.57	50.69	54.00	3.31	265	85	Horizontal

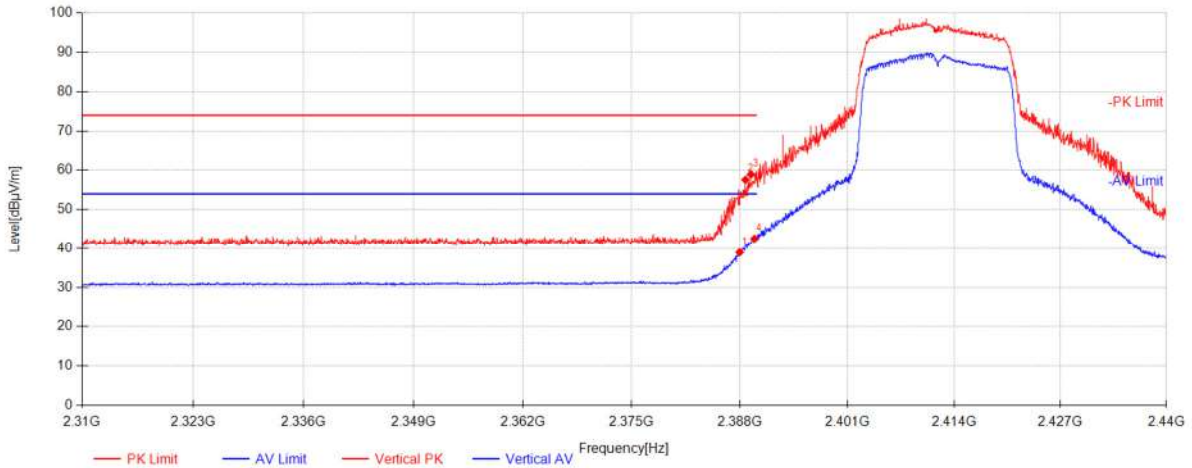


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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388	35.08	27.43	-23.57	38.94	54.00	15.06	148	215	Vertical
2	2388.6933	53.73	27.43	-23.57	57.59	74.00	16.41	148	215	Vertical
3	2389.3433	55.09	27.43	-23.57	58.95	74.00	15.05	148	215	Vertical
4	2389.7767	38.67	27.43	-23.57	42.53	54.00	11.47	148	215	Vertical



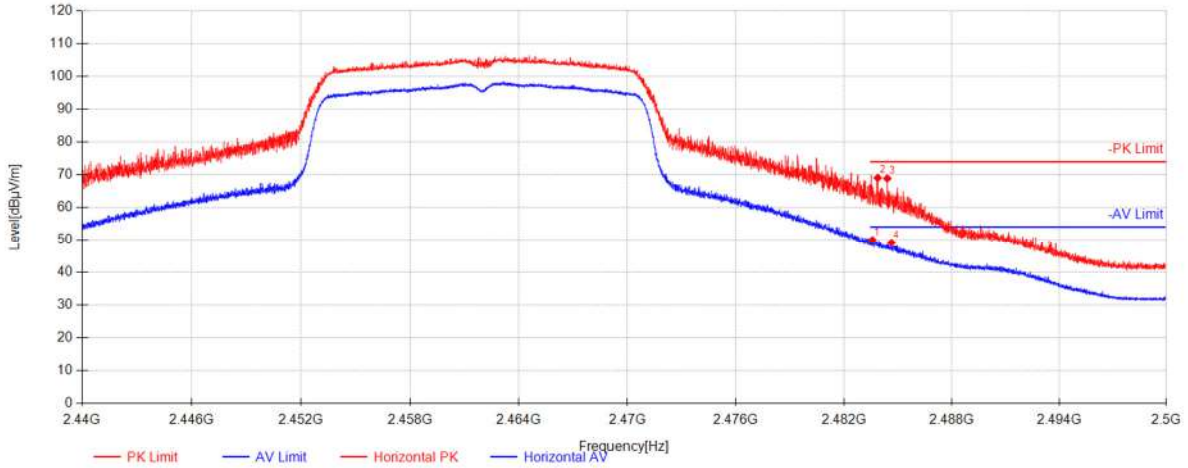
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5975	45.78	27.72	-23.54	49.95	54.00	4.05	236	158	Horizontal
2	2483.89	64.90	27.72	-23.54	69.07	74.00	4.93	236	158	Horizontal
3	2484.4225	64.73	27.72	-23.54	68.90	74.00	5.10	236	158	Horizontal
4	2484.655	44.98	27.72	-23.54	49.15	54.00	4.85	236	158	Horizontal

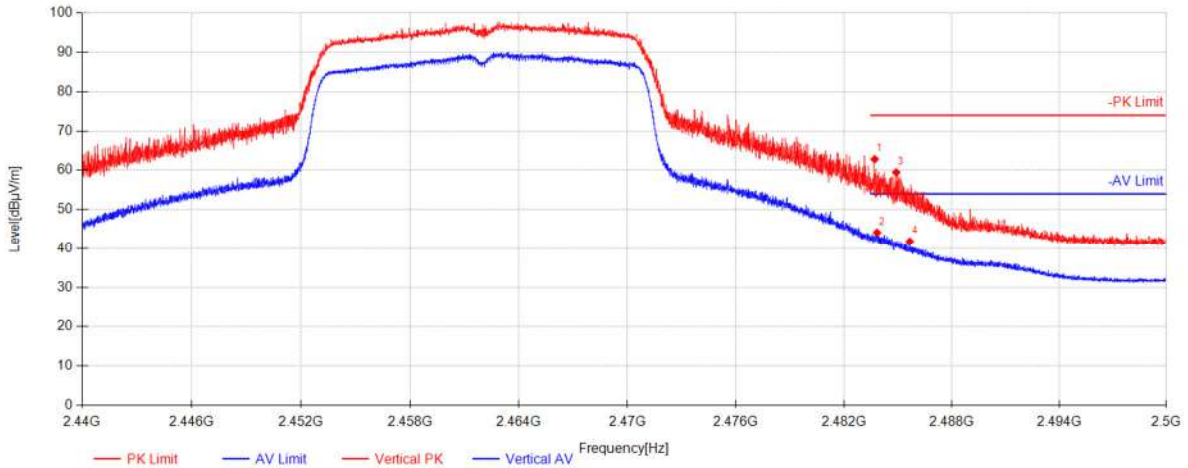


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1	2483.7175	58.65	27.72	-23.54	62.82	74.00	11.18	111	228	Vertical
2	2483.8525	39.93	27.72	-23.54	44.10	54.00	9.90	111	228	Vertical
3	2484.9175	55.29	27.72	-23.54	59.47	74.00	14.53	111	228	Vertical
4	2485.675	37.60	27.72	-23.54	41.78	54.00	12.22	111	228	Vertical

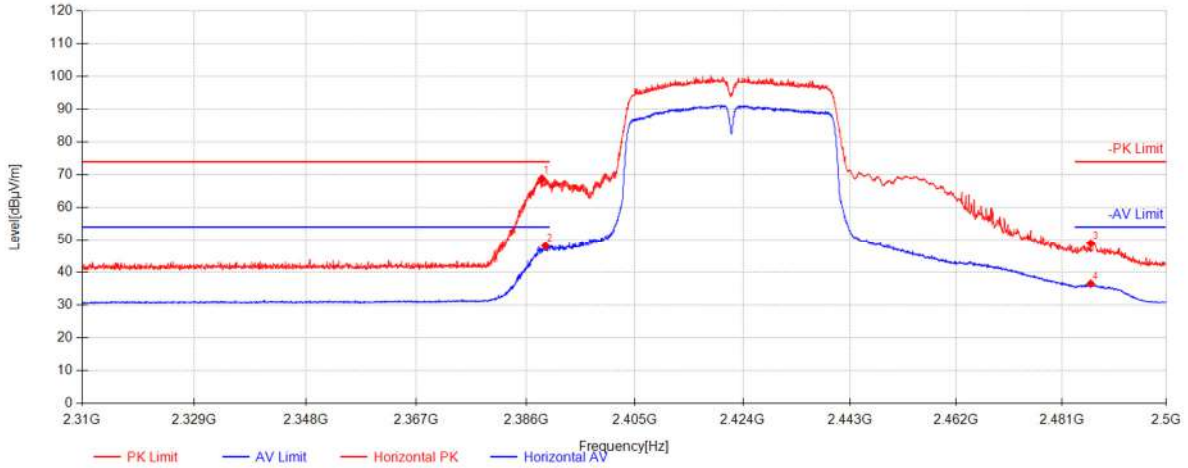


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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.7367	65.00	27.43	-23.57	68.86	74.00	5.14	288	121	Horizontal
2	2389.3433	44.23	27.43	-23.57	48.09	54.00	5.91	288	121	Horizontal
3	2486.26	44.76	27.72	-23.54	48.94	74.00	25.06	288	121	Horizontal
4	2486.26	32.29	27.72	-23.54	36.47	54.00	17.53	288	121	Horizontal



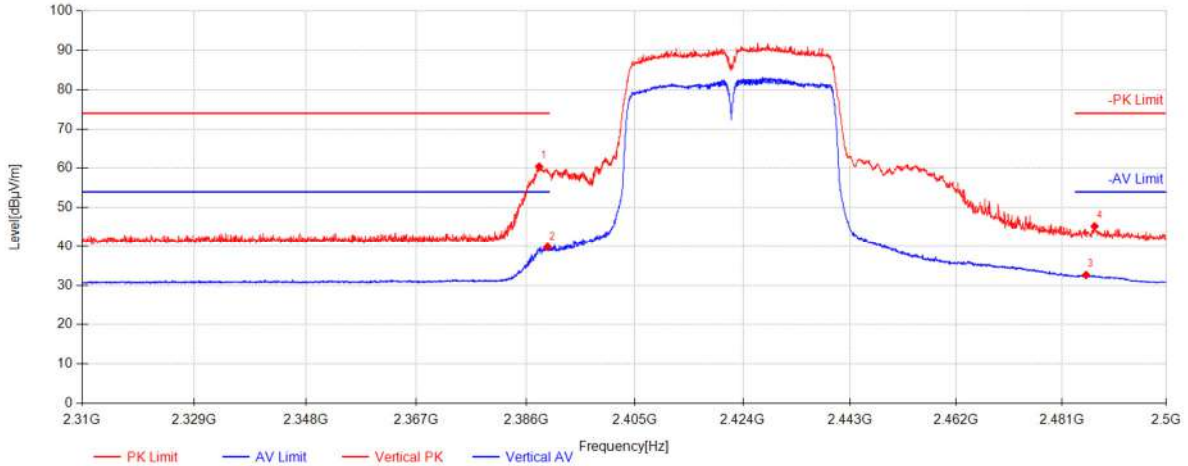
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.26	56.56	27.43	-23.57	60.42	74.00	13.58	215	312	Vertical
2	2389.7333	35.93	27.43	-23.57	39.79	54.00	14.21	215	312	Vertical
3	2485.42	28.42	27.72	-23.54	32.60	54.00	21.40	215	312	Vertical
4	2486.98	41.07	27.73	-23.54	45.25	74.00	28.75	215	312	Vertical



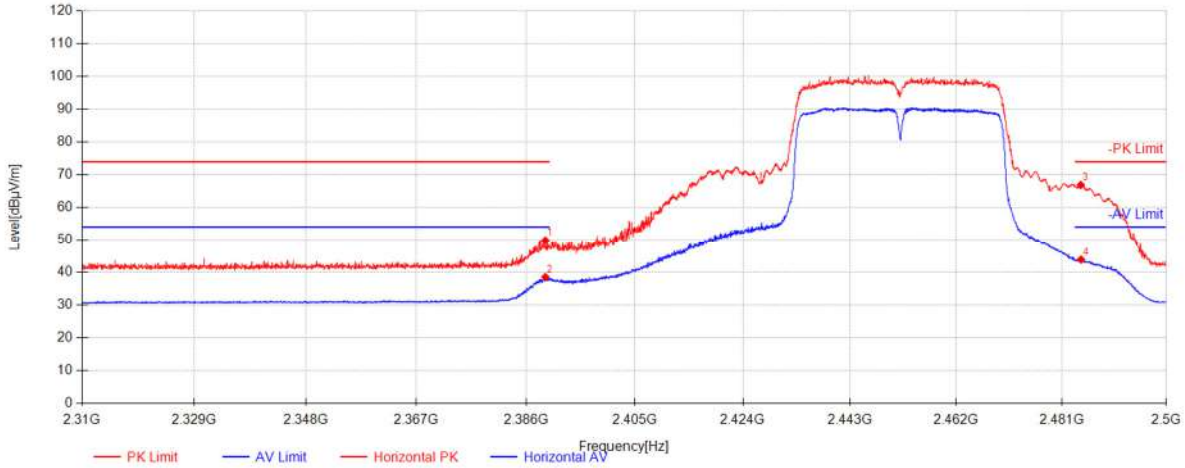
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802.11n40_Channel 09



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3433	46.00	27.43	-23.57	49.86	74.00	24.14	236	110	Horizontal
2	2389.3433	34.64	27.43	-23.57	38.50	54.00	15.50	236	110	Horizontal
3	2484.46	62.74	27.72	-23.54	66.91	74.00	7.09	236	110	Horizontal
4	2484.52	39.68	27.72	-23.54	43.85	54.00	10.15	236	110	Horizontal



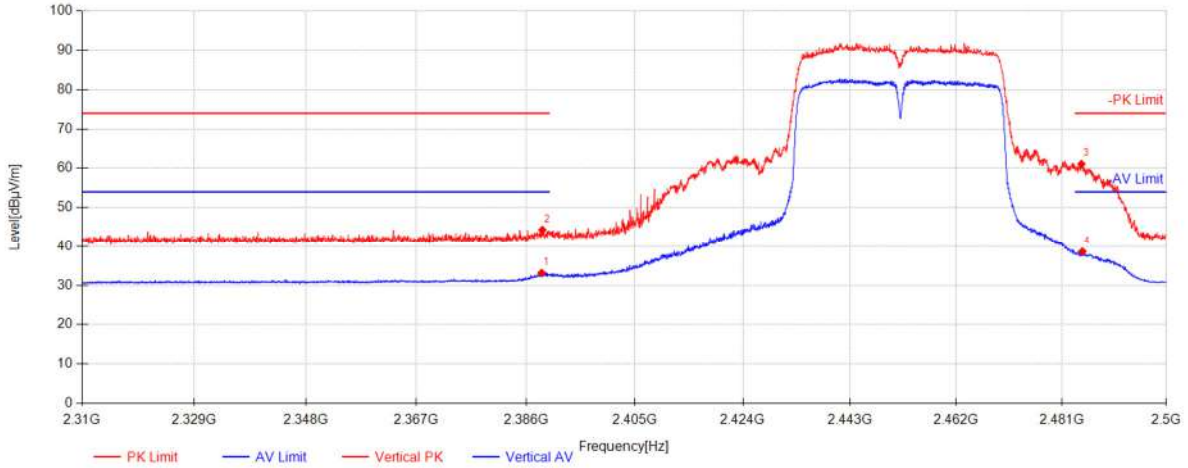
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802.11n40_Channel 09



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6933	29.28	27.43	-23.57	33.14	54.00	20.86	174	219	Vertical
2	2388.8233	40.45	27.43	-23.57	44.31	74.00	29.69	174	219	Vertical
3	2484.58	56.90	27.72	-23.54	61.07	74.00	12.93	174	219	Vertical
4	2484.76	34.44	27.72	-23.54	38.62	54.00	15.38	174	219	Vertical



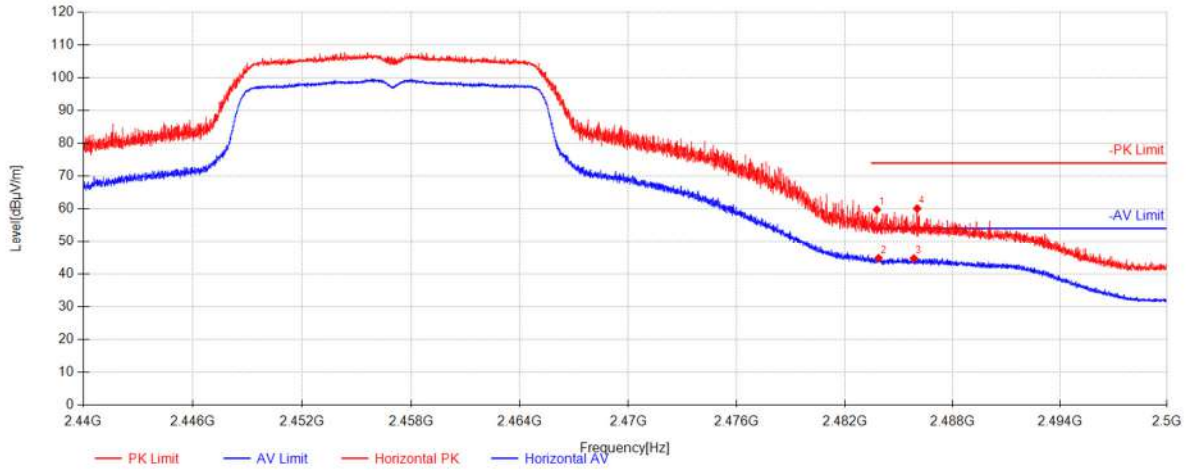
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802.11g_Channel 10



Final 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	2483.7925	55.57	27.72	-23.54	59.74	74.00	14.26	132	98	Horizontal
2	2483.89	40.67	27.72	-23.54	44.84	54.00	9.16	132	98	Horizontal
3	2485.855	40.58	27.72	-23.54	44.76	54.00	9.24	132	98	Horizontal
4	2486.0425	55.92	27.72	-23.54	60.10	74.00	13.90	132	98	Horizontal



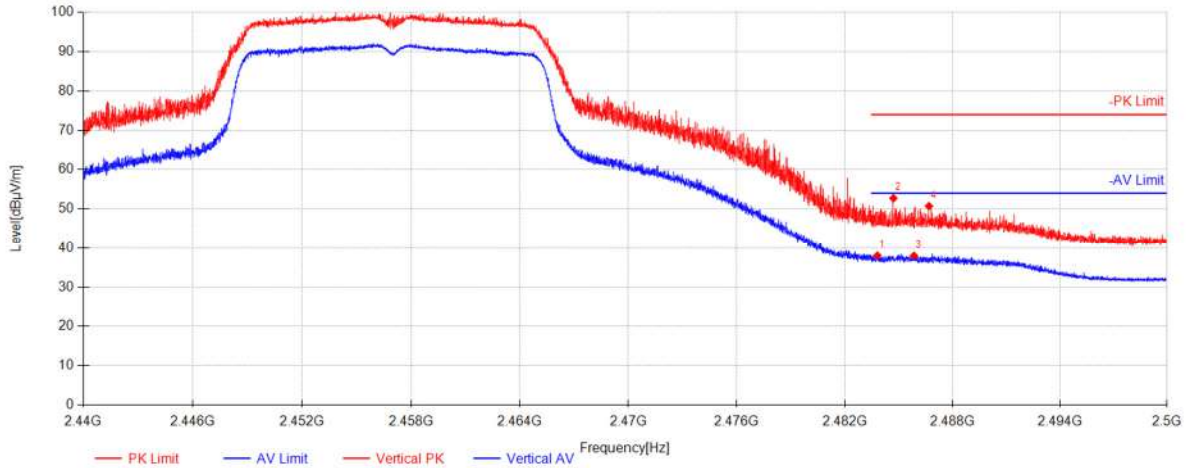
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802.11g_Channel 10



Final 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	2483.8225	33.87	27.72	-23.54	38.04	54.00	15.96	255	246	Vertical
2	2484.715	48.54	27.72	-23.54	52.71	74.00	21.29	255	246	Vertical
3	2485.8625	33.79	27.72	-23.54	37.97	54.00	16.03	255	246	Vertical
4	2486.695	46.53	27.73	-23.54	50.71	74.00	23.29	255	246	Vertical

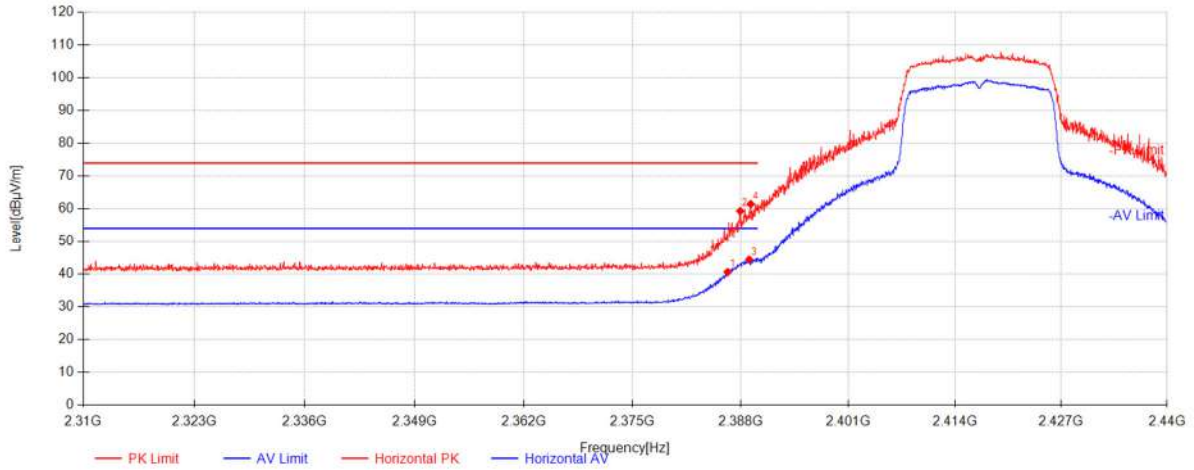


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802.11n20_Channel 02



Final 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	2386.44	36.74	27.43	-23.57	40.60	54.00	13.40	184	96	Horizontal
2	2387.9567	55.47	27.43	-23.57	59.33	74.00	14.67	184	96	Horizontal
3	2389.04	40.56	27.43	-23.57	44.42	54.00	9.58	184	96	Horizontal
4	2389.2133	57.60	27.43	-23.57	61.46	74.00	12.54	184	96	Horizontal



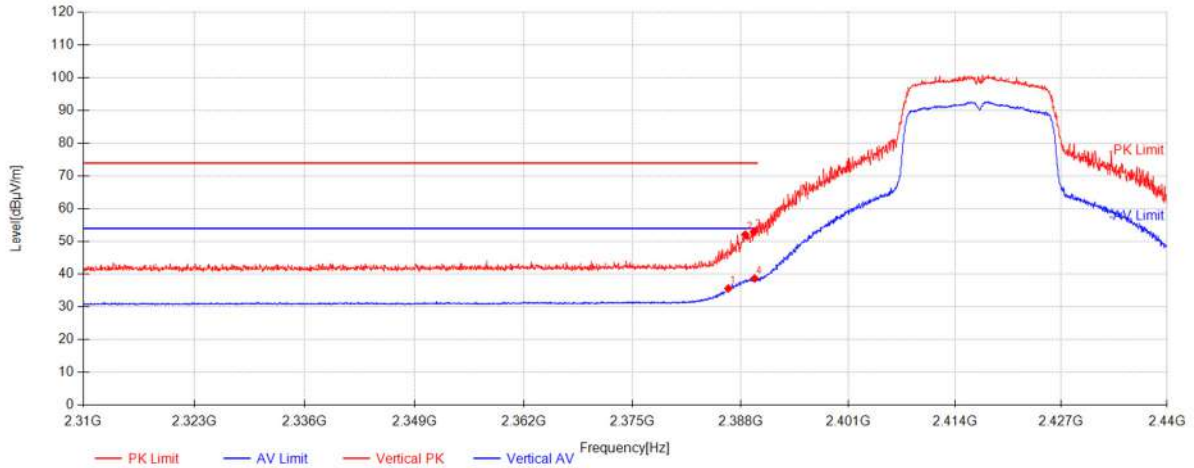
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802.11n20_Channel 02



Final 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	2386.5267	31.72	27.43	-23.57	35.58	54.00	18.42	199	242	Vertical
2	2388.5633	48.30	27.43	-23.57	52.16	74.00	21.84	199	242	Vertical
3	2389.6033	49.16	27.43	-23.57	53.02	74.00	20.98	199	242	Vertical
4	2389.69	34.76	27.43	-23.57	38.62	54.00	15.38	199	242	Vertical



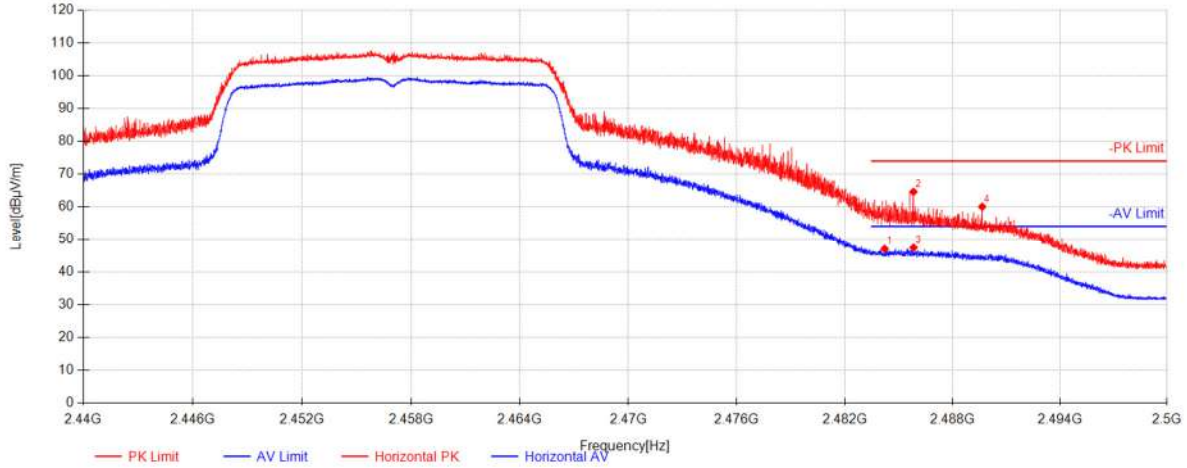
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1	2484.2275	42.94	27.72	-23.54	47.11	54.00	6.89	155	98	Horizontal
2	2485.8325	60.41	27.72	-23.54	64.59	74.00	9.41	155	98	Horizontal
3	2485.84	43.28	27.72	-23.54	47.46	54.00	6.54	155	98	Horizontal
4	2489.665	55.83	27.74	-23.54	60.02	74.00	13.98	155	98	Horizontal



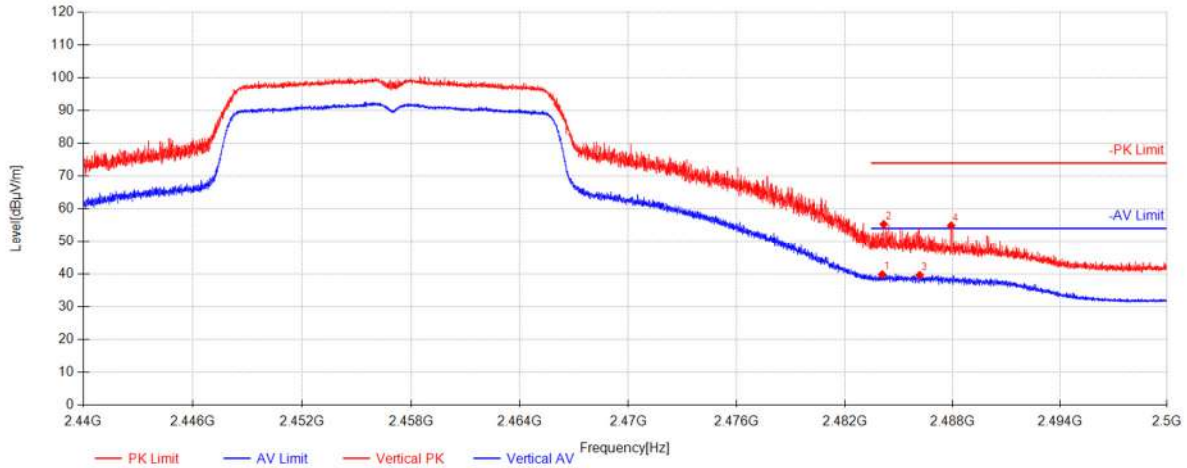
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.0925	35.69	27.72	-23.54	39.86	54.00	14.14	174	231	Vertical
2	2484.175	51.13	27.72	-23.54	55.30	74.00	18.70	174	231	Vertical
3	2486.1775	35.47	27.72	-23.54	39.65	54.00	14.35	174	231	Vertical
4	2487.9325	50.68	27.73	-23.54	54.87	74.00	19.13	174	231	Vertical



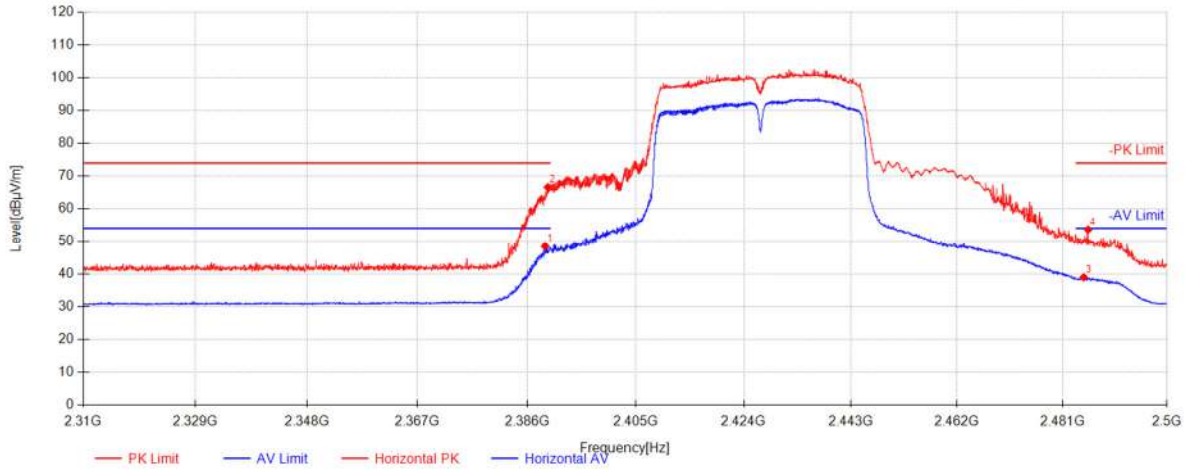
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802.11n40_Channel 04



Final 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	2389.1267	44.66	27.43	-23.57	48.52	54.00	5.48	146	111	Horizontal
2	2389.6033	62.73	27.43	-23.57	66.59	74.00	7.41	146	111	Horizontal
3	2484.88	34.83	27.72	-23.54	39.01	54.00	14.99	146	111	Horizontal
4	2485.66	49.45	27.72	-23.54	53.63	74.00	20.37	146	111	Horizontal



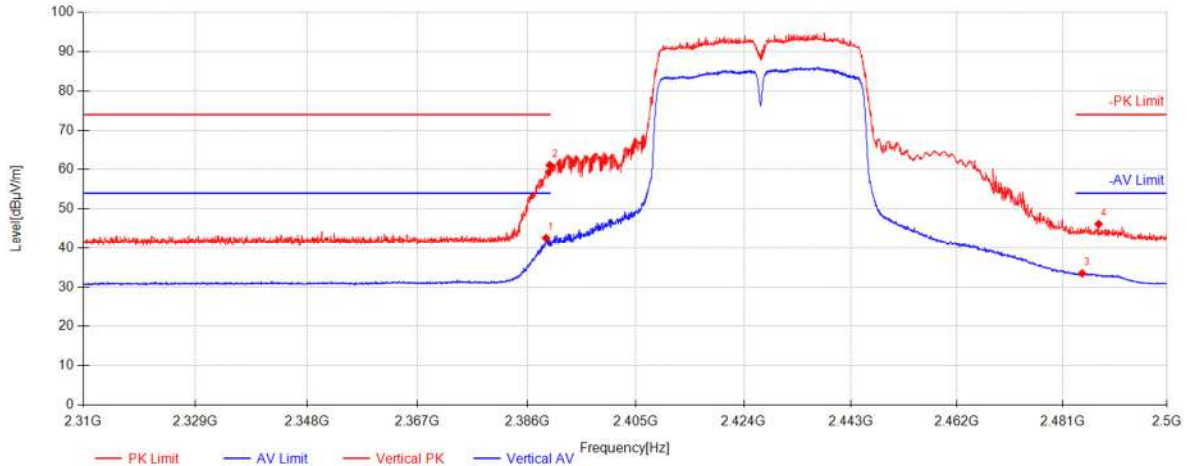
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.3	38.70	27.43	-23.57	42.56	54.00	11.44	198	228	Vertical
2	2389.95	57.27	27.43	-23.57	61.13	74.00	12.87	198	228	Vertical
3	2484.58	29.31	27.72	-23.54	33.48	54.00	20.52	198	228	Vertical
4	2487.58	41.93	27.73	-23.54	46.12	74.00	27.88	198	228	Vertical

Remark:

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

Level = Reading(dBµV) + AF(dB/m) + Factor(dB)
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Level(dBµV/m)

---End of Report---



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