

Report No.: SEWA2206000022RG04

Rev.: 01

Page: 1 of 134

TEST REPORT

Application No.: SEWA2206000022RG
Applicant: Micronet
Address of Applicant: 16 Hamelacha St. Rosh Haayin, Israel
Manufacturer: Micronet
Address of Manufacturer: 16 Hamelacha St. Rosh Haayin, Israel
EUT Description: Micronet SmartCam
Model No.: SmartCam (A)
Trade Mark: Micronet
FCC ID: U8O-SC
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/07/25
Date of Test: 2022/07/26 to 2022/10/28
Date of Issue: 2022/10/31

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:

Pantu Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/10/31		Original

Prepared By		 <hr/> (Tizzy 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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3 General Information

3.1 Details of Client

Applicant:	Micronet
Address of Applicant:	16 Hamelacha St. Rosh Haayin, Israel
Manufacturer:	Micronet
Address of Manufacturer:	16 Hamelacha St. Rosh Haayin, Israel

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:	Tizy Song, Ives Cheng

3.3 Test Facility

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

- A2LA (Certificate No. 6336.01)**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.
- Innovation, Science and Economic Development Canada**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.
 CAB identifier: CN0120.
 IC#: 27594.
- FCC –Designation Number: CN1312**
 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.
 Designation Number: CN1312.
 Test Firm Registration Number: 717327



3.4 General Description of EUT

EUT Description:	Micronet SmartCam	
Model No.:	SmartCam (A)	
Trade Mark:	Micronet	
Hardware Version:	V1.0	
Software Version:	V10.0	
IMEI:	RF Conducted	864197040497231
	RSE & AC power line	866577060871878
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:	3.65dBi;	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	
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.		



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			



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	12
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

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



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 3.65dBi.*</p> <p><i>*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.</i></p>	



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4.2 AC Power Line Conducted Emissions

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



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



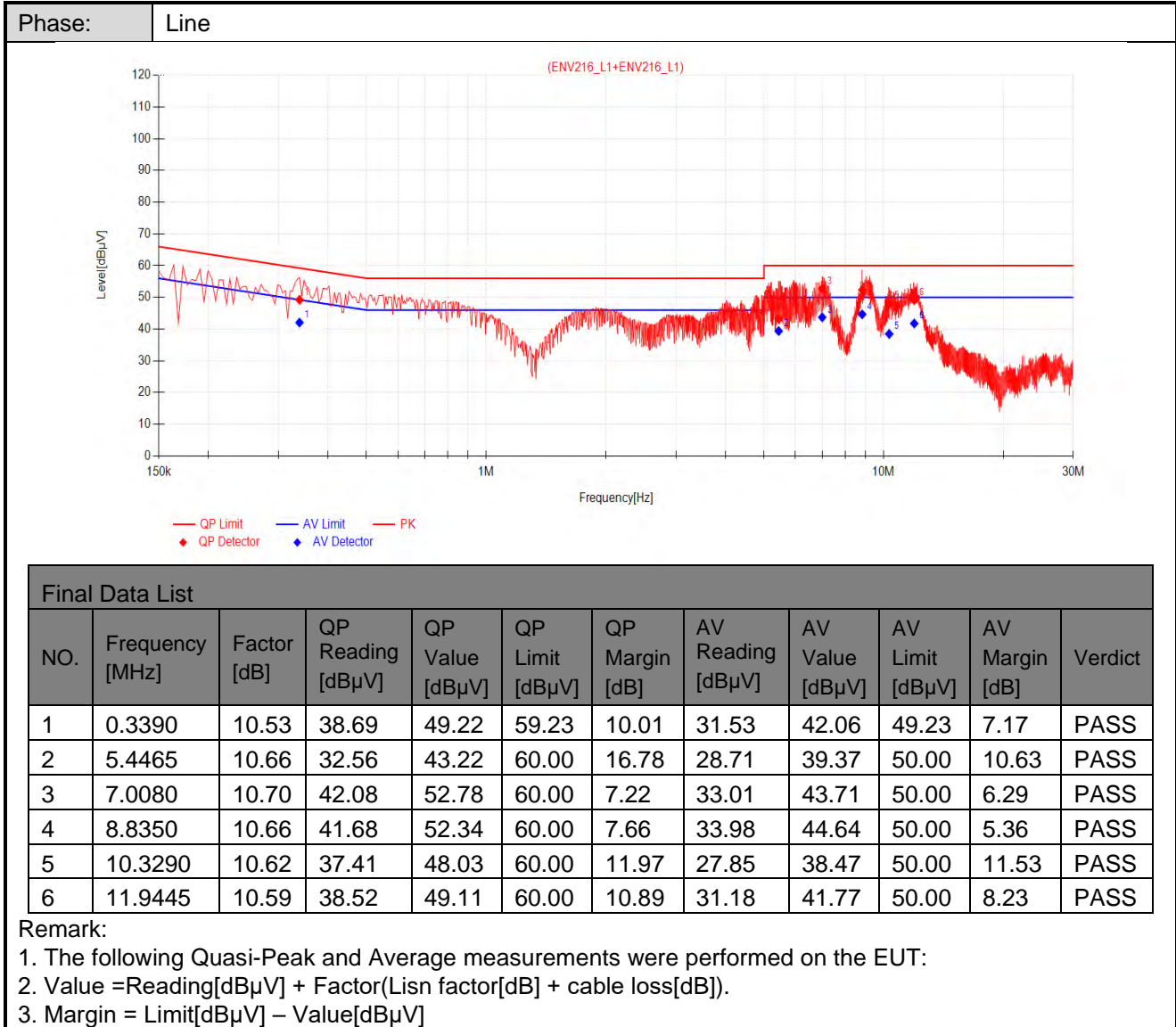
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Measurement Data

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

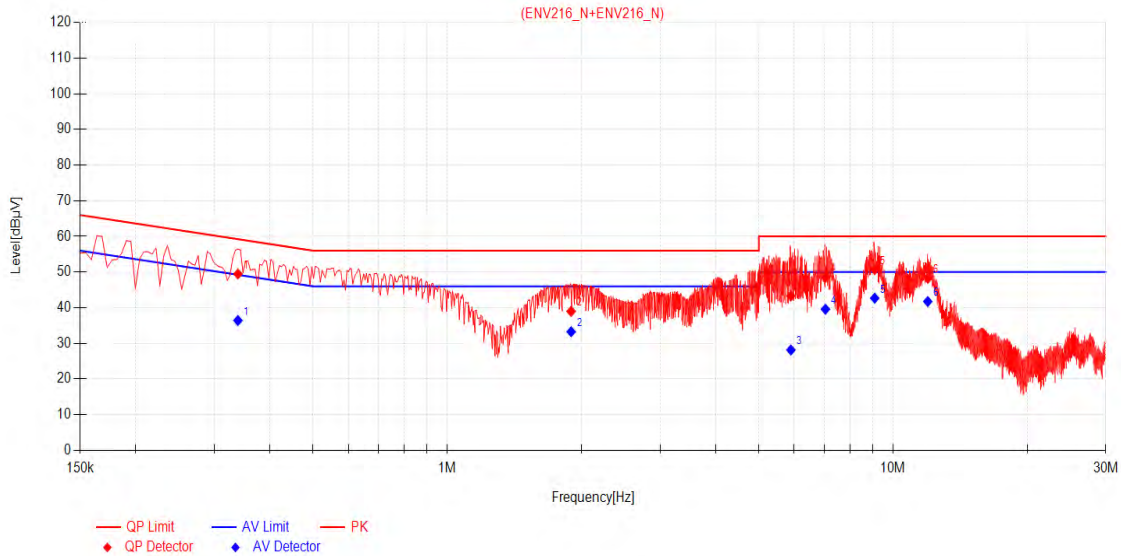


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3390	10.80	38.66	49.46	59.23	9.77	25.62	36.42	49.23	12.81	PASS
2	1.8960	10.77	28.22	38.99	56.00	17.01	22.49	33.26	46.00	12.74	PASS
3	5.9010	10.57	32.74	43.31	60.00	16.69	17.58	28.15	50.00	21.85	PASS
4	7.0530	10.51	38.01	48.52	60.00	11.48	29.07	39.58	50.00	10.42	PASS
5	9.0960	10.63	40.06	50.69	60.00	9.31	32.04	42.67	50.00	7.33	PASS
6	11.9670	10.65	37.62	48.27	60.00	11.73	31.10	41.75	50.00	8.25	PASS

Remark:

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



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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 Section 11.9.2.3
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	



4.6 Power Spectral Density

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



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4.7 Band-edge for RF Conducted Emissions

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



4.8 RF Conducted Spurious Emissions

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



4.9 Radiated Spurious Emissions

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



Test Setup:

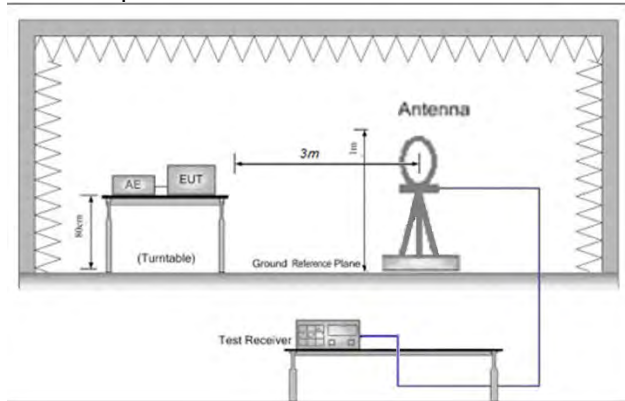


Figure 1. Below 30MHz

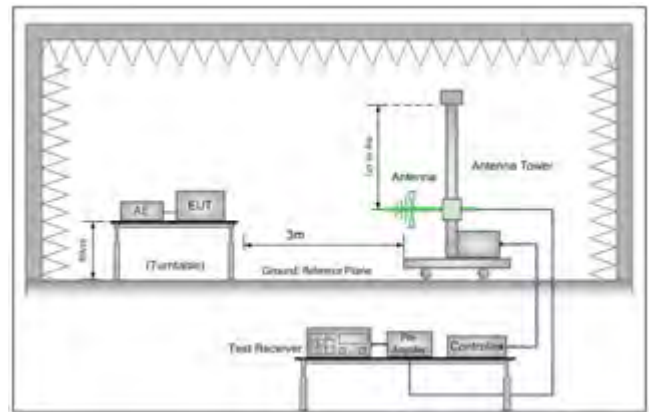


Figure 2. 30MHz to 1GHz

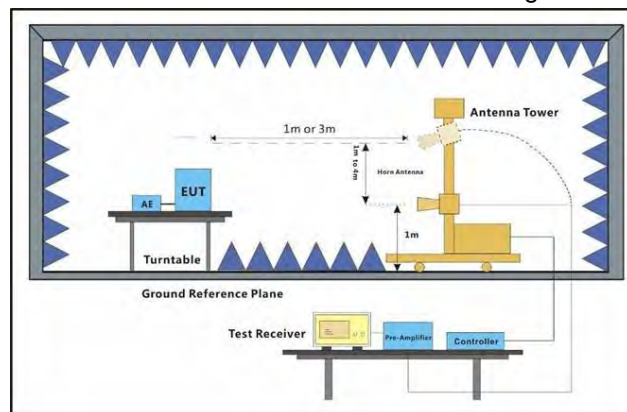


Figure 3. Above 1 GHz

Test Procedure:

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



	<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 $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. 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	



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:

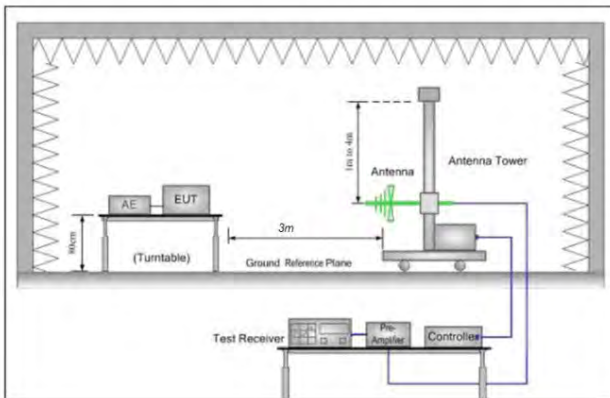


Figure 1. 30MHz to 1GHz

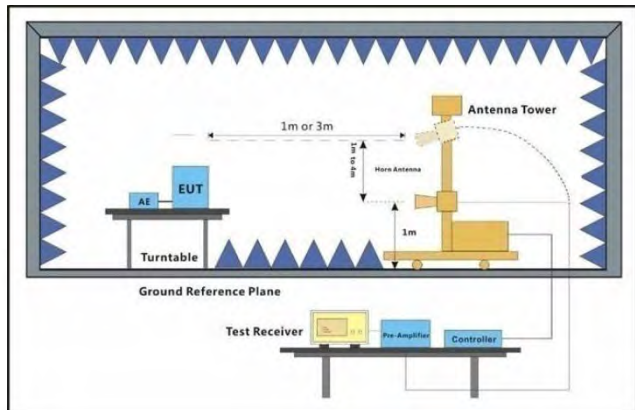


Figure 2. Above 1 GHz



<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>





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



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

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

Remark:

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



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
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
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Rev.: 01

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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	Ant1	2412	8.64	2407.88	2416.52	≥0.5	PASS
		2437	8.64	2432.40	2441.04	≥0.5	PASS
		2462	7.68	2458.36	2466.04	≥0.5	PASS
11g	Ant1	2412	16.44	2403.76	2420.20	≥0.5	PASS
		2437	16.44	2428.76	2445.20	≥0.5	PASS
		2457	16.40	2448.80	2465.20	≥0.5	PASS
		2462	16.44	2453.76	2470.20	≥0.5	PASS
11n20SISO	Ant1	2412	17.64	2403.16	2420.80	≥0.5	PASS
		2437	17.44	2428.12	2445.56	≥0.5	PASS
		2457	17.36	2448.44	2465.80	≥0.5	PASS
		2462	17.64	2453.16	2470.80	≥0.5	PASS
11n40SISO	Ant1	2422	35.36	2404.32	2439.68	≥0.5	PASS
		2437	35.36	2419.32	2454.68	≥0.5	PASS
		2452	35.68	2434.00	2469.68	≥0.5	PASS



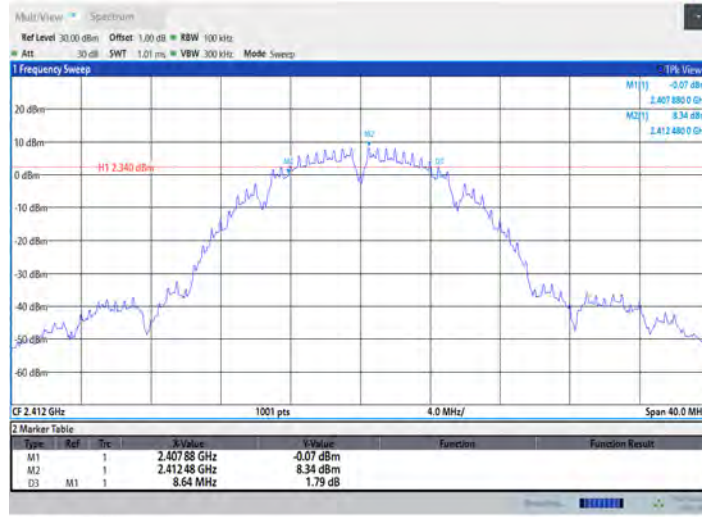
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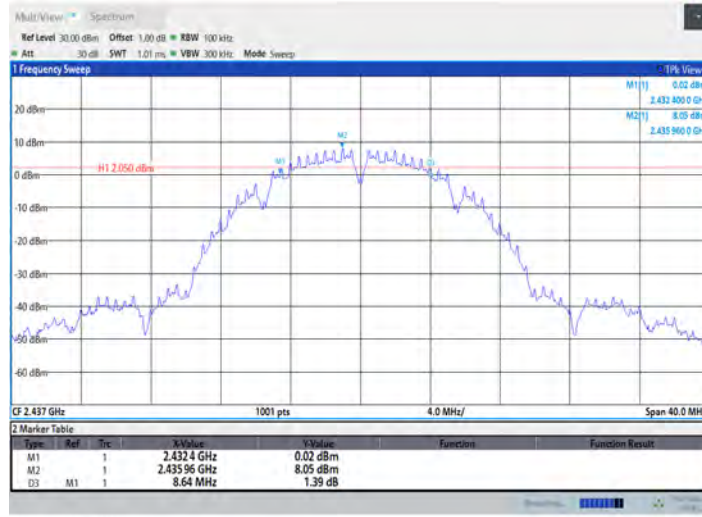
Test Graphs

11b_Ant1_2412



14:17:36 26.07.2022

11b_Ant1_2437



14:19:23 26.07.2022



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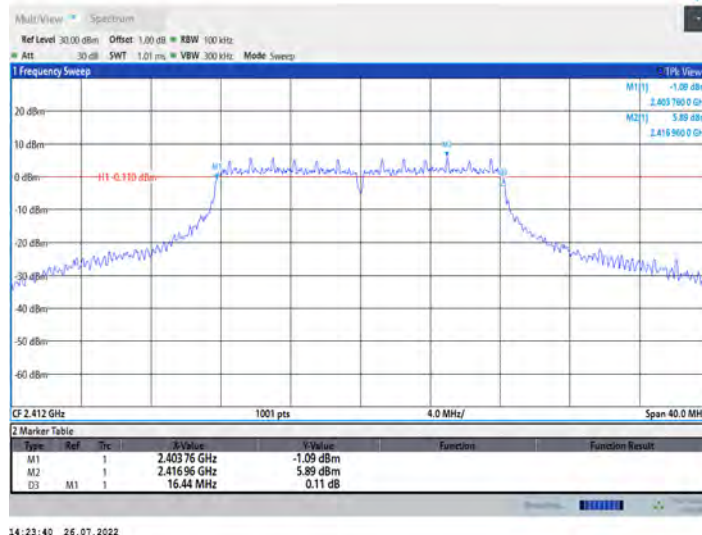
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11b_Ant1_2462



14:23:10 26.07.2022

11g_Ant1_2412



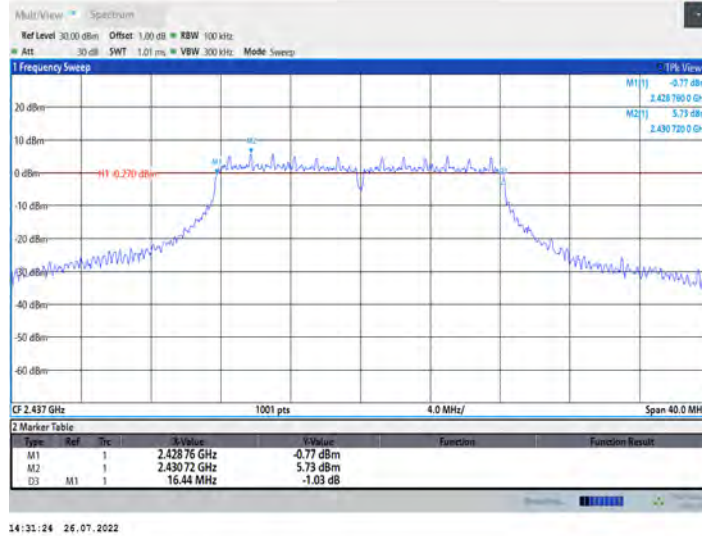
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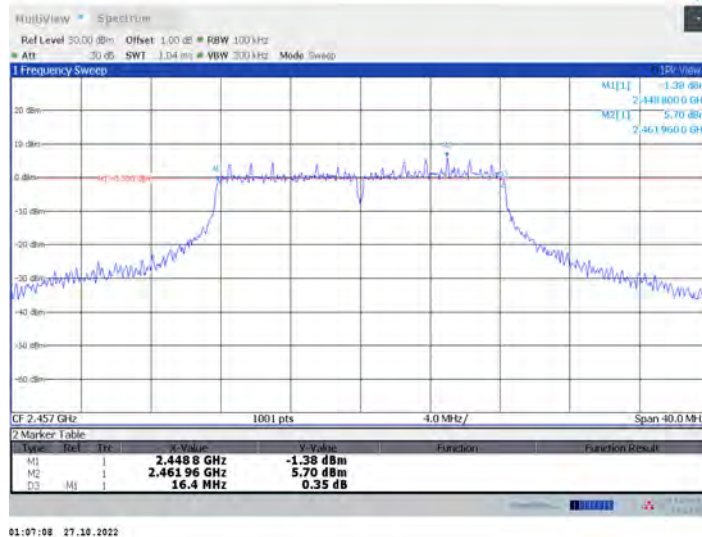
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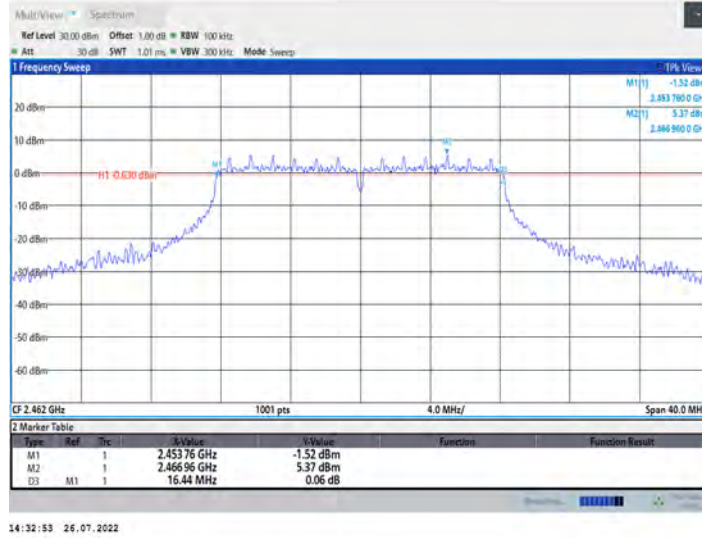
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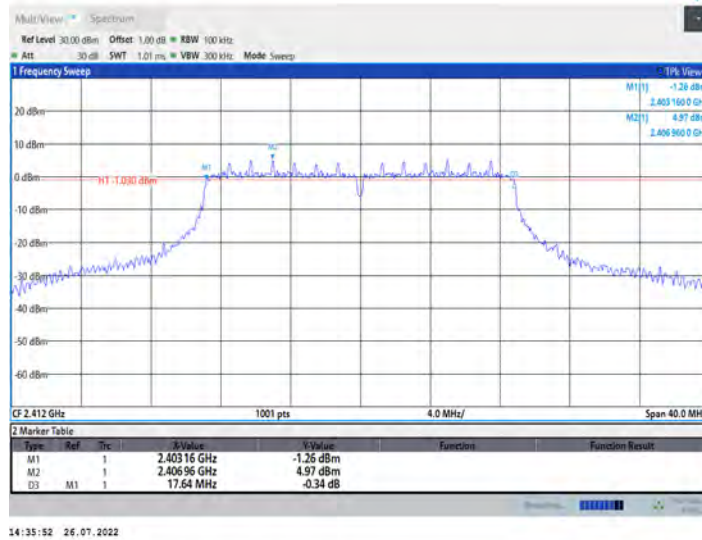
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11g_Ant1_2462



11n20SISO_Ant1_2412

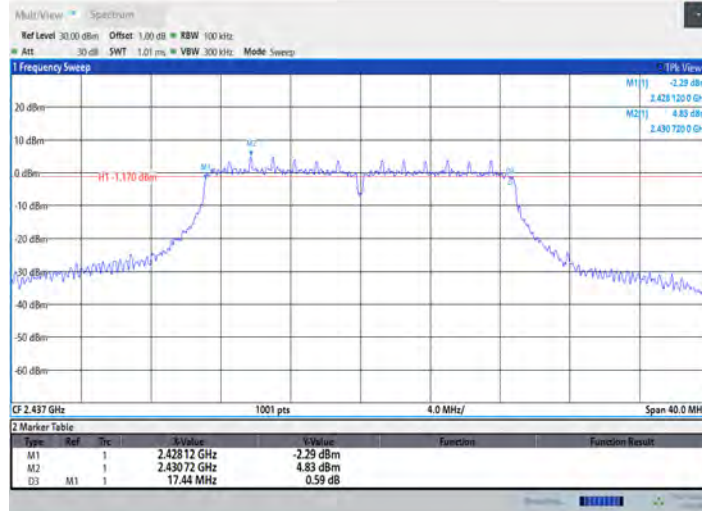


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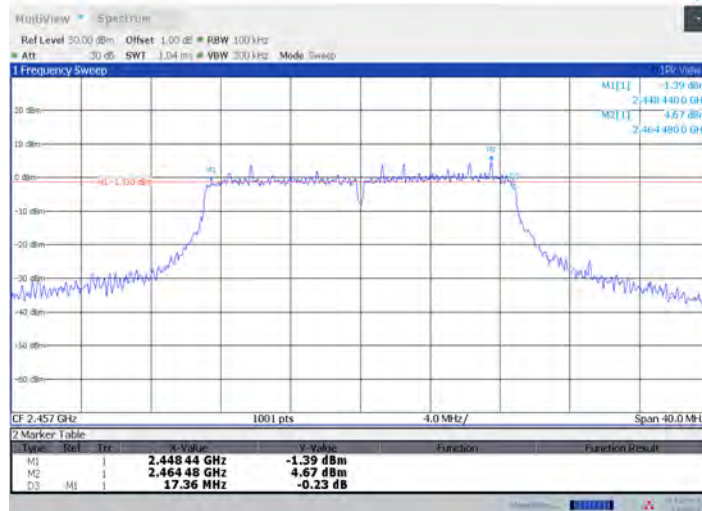
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11n20SISO_Ant1_2437



14:42:07 26.07.2022

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01:08:35 27.10.2022



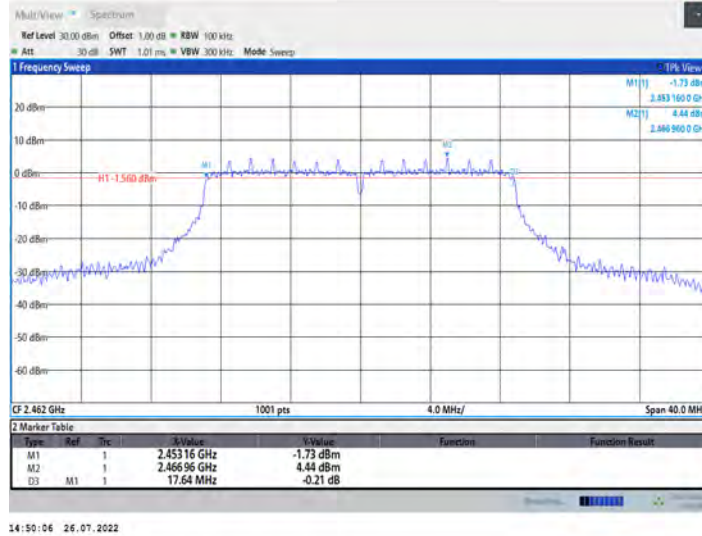
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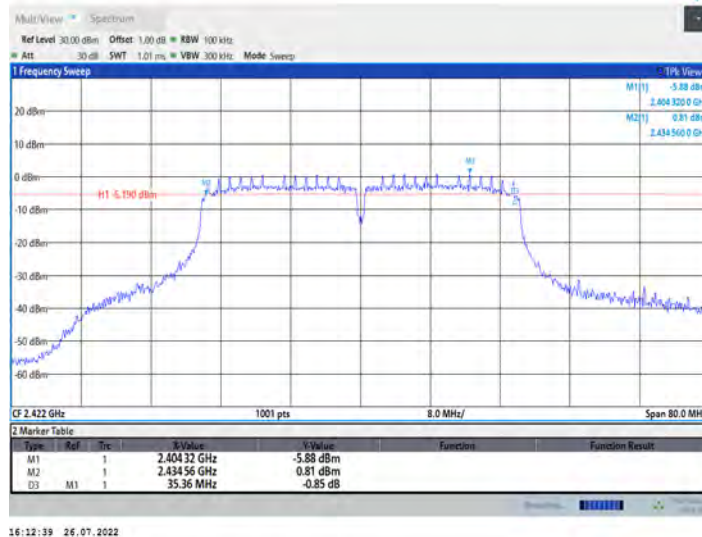
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11n40SISO_Ant1_2422

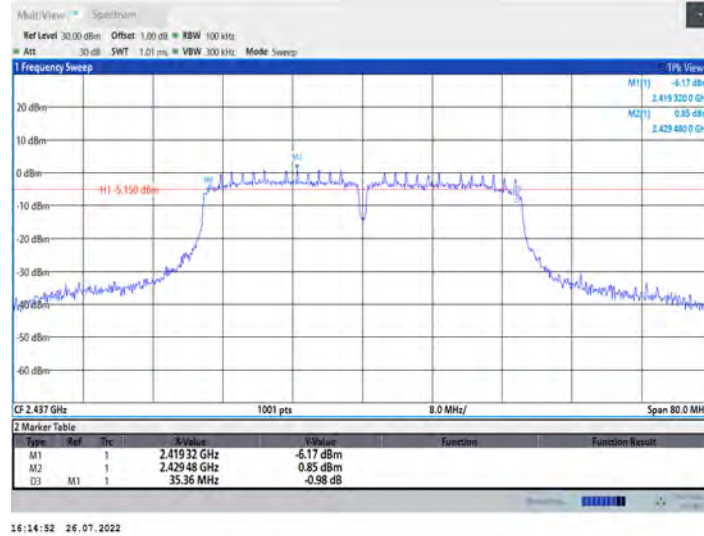


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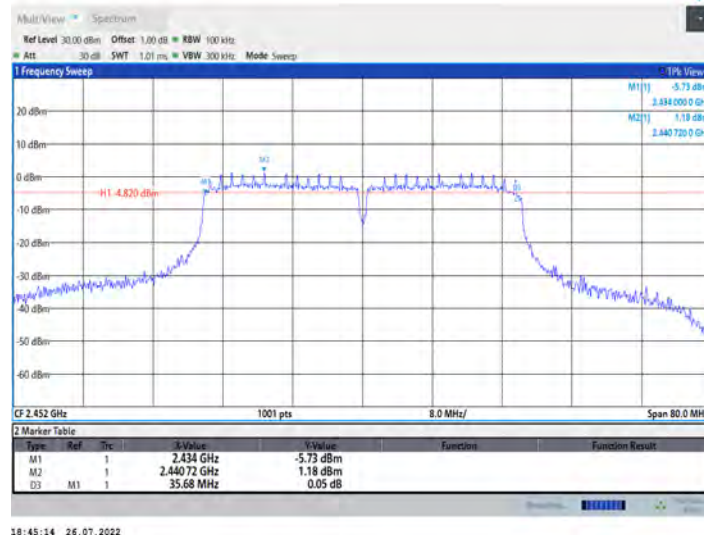
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11n40SISO_Ant1_2437



16:14:52 26.07.2022

11n40SISO_Ant1_2452



18:45:14 26.07.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	13.289	2405.353	2418.642	---	---
		2437	13.264	2430.299	2443.563	---	---
		2462	13.214	2455.402	2468.617	---	---
11g	Ant1	2412	18.022	2402.963	2420.985	---	---
		2437	17.88	2427.917	2445.798	---	---
		2457	17.59	2448.234	2465.824	---	---
		2462	17.864	2453.036	2470.900	---	---
11n20SISO	Ant1	2412	18.671	2402.683	2421.354	---	---
		2437	18.633	2427.589	2446.222	---	---
		2457	18.424	2447.825	2466.249	---	---
		2462	18.658	2452.670	2471.328	---	---
11n40SISO	Ant1	2422	36.527	2403.676	2440.202	---	---
		2437	36.691	2418.569	2455.260	---	---
		2452	36.842	2433.458	2470.300	---	---



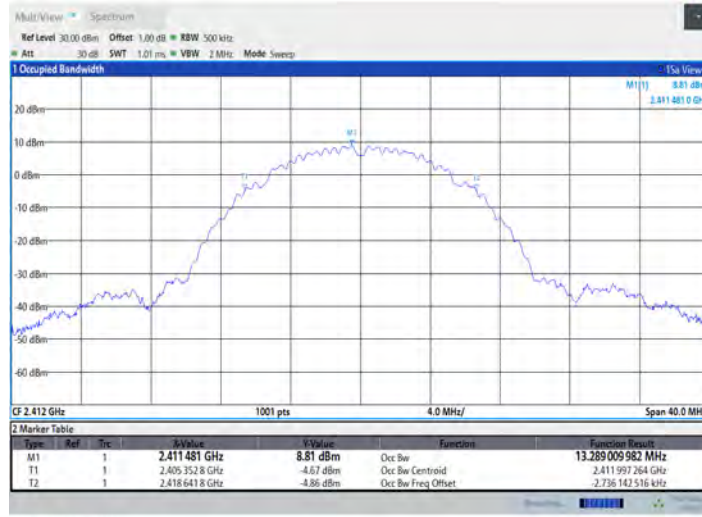
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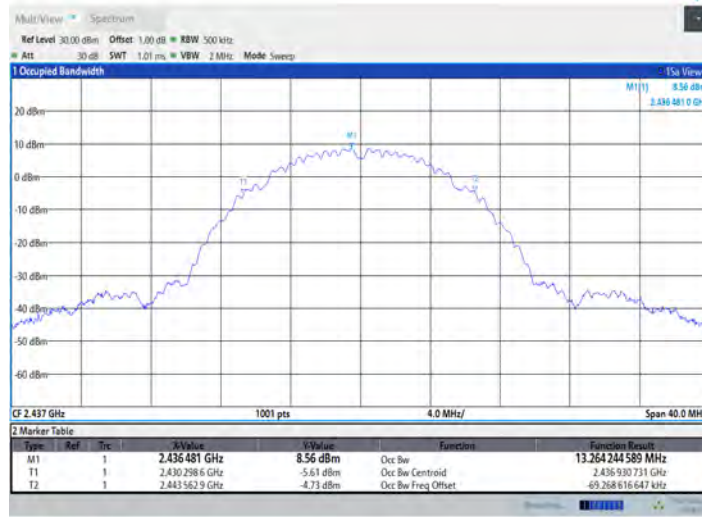
Test Graphs

11b_Ant1_2412



14:17:42 26.07.2022

11b_Ant1_2437



14:19:29 26.07.2022



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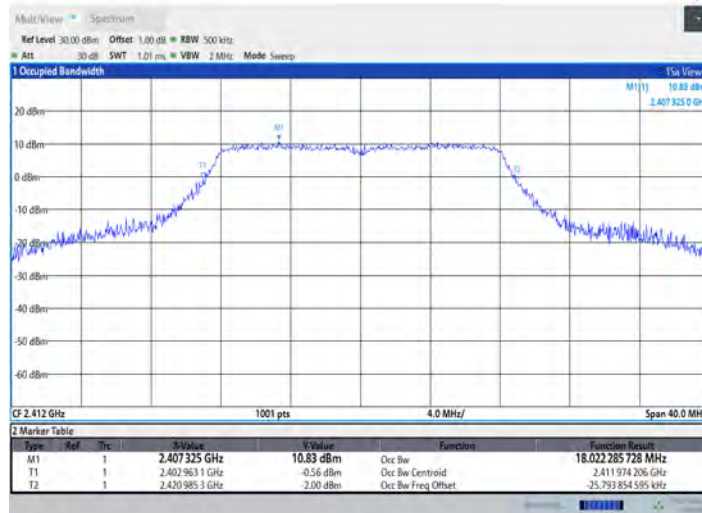
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11b_Ant1_2462



14:23:16 26.07.2022

11g_Ant1_2412



14:23:46 26.07.2022

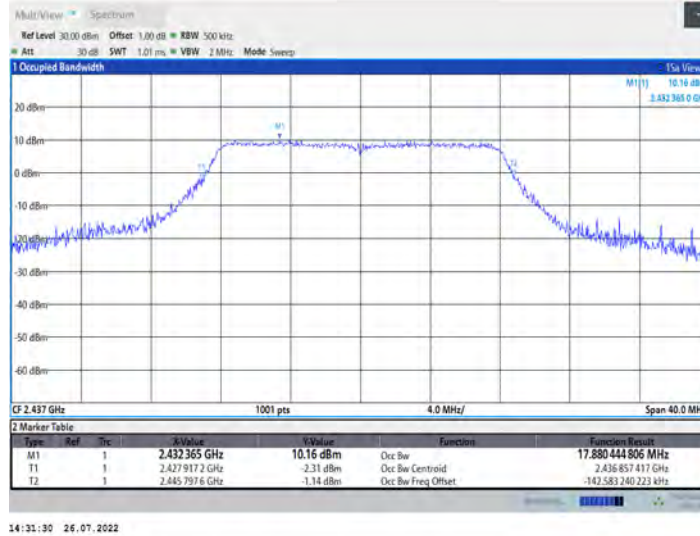


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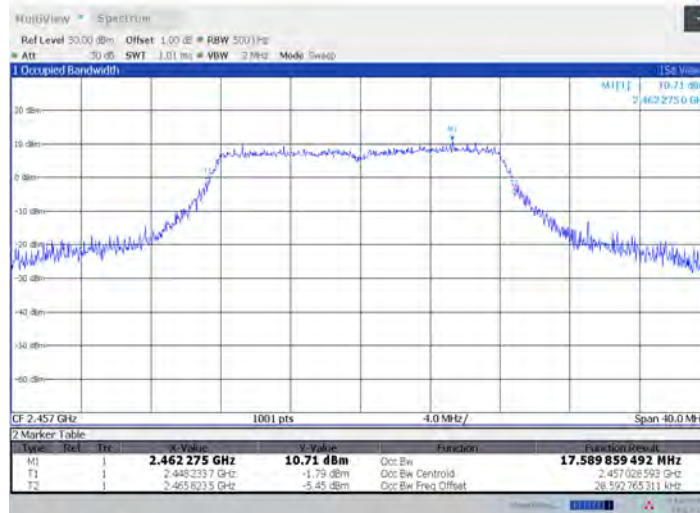
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11g_Ant1_2437



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11g_Ant1_2457



01:07:14 27.10.2022

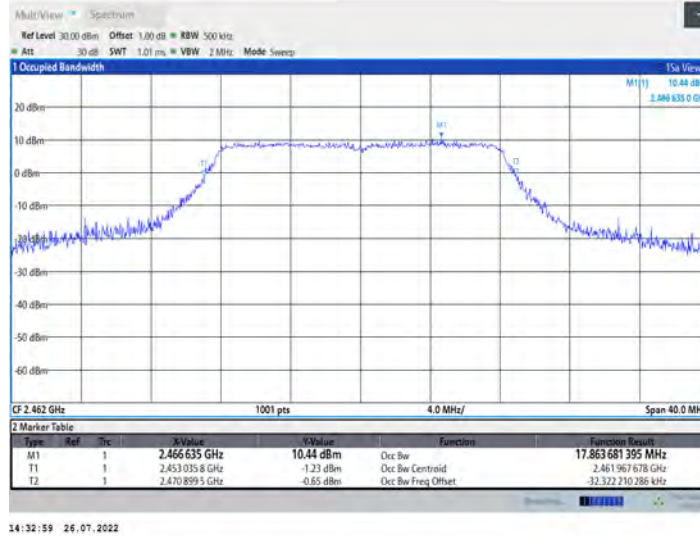


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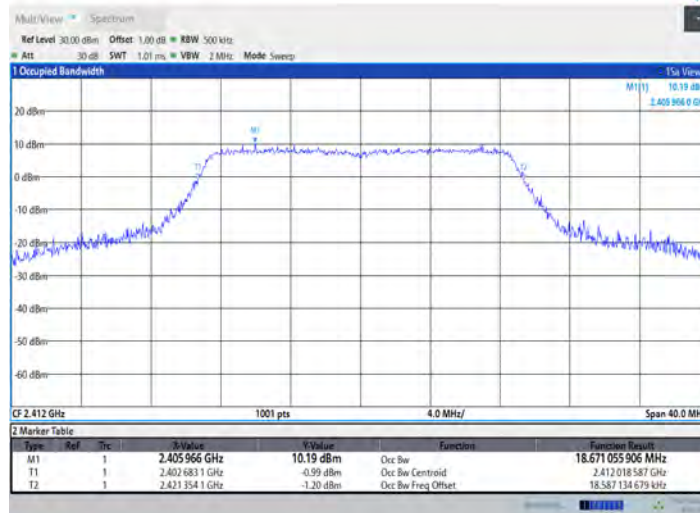
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11g_Ant1_2462



14:32:59 26.07.2022

11n20SISO_Ant1_2412



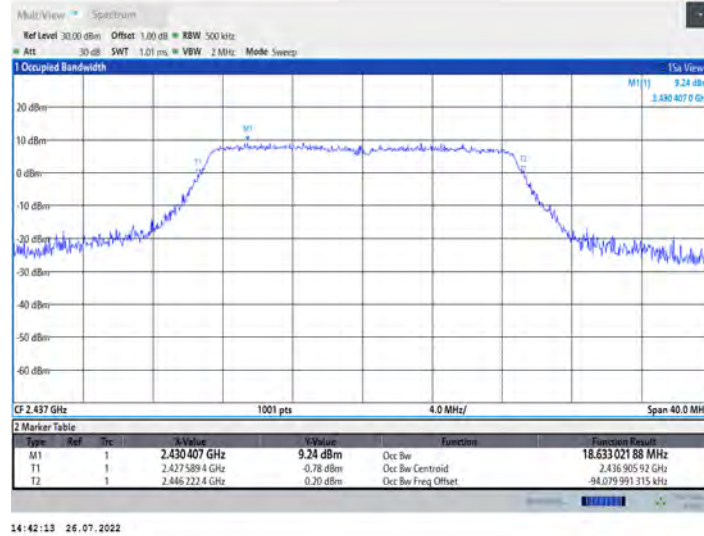
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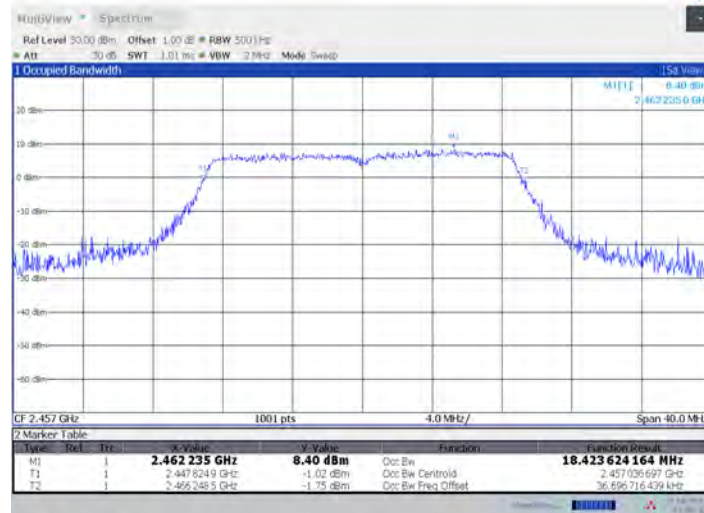
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11n20SISO_Ant1_2437



14:42:13 26.07.2022

11n20SISO_Ant1_2457



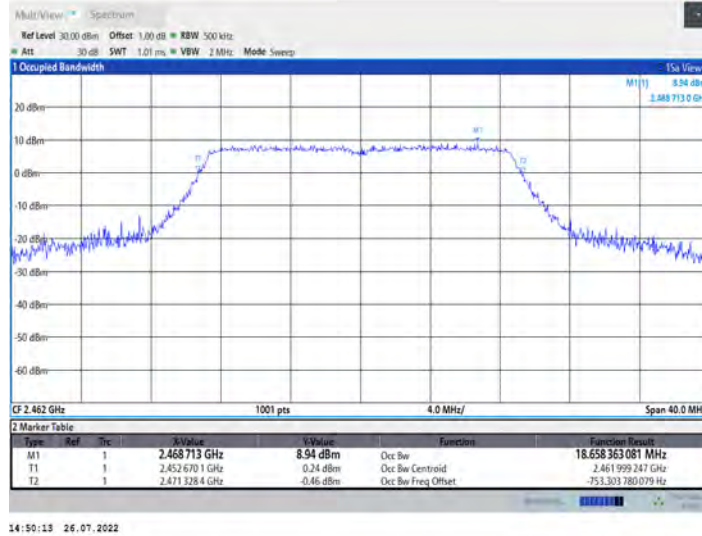
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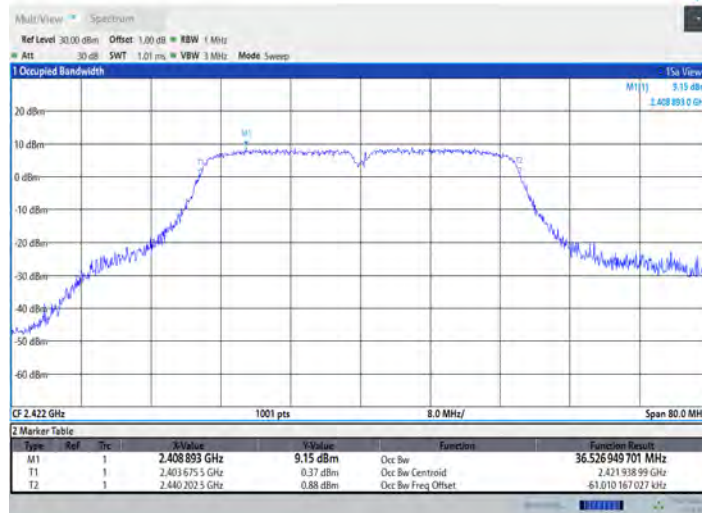
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11n20SISO_Ant1_2462



14:50:13 26.07.2022

11n40SISO_Ant1_2422



16:12:45 26.07.2022

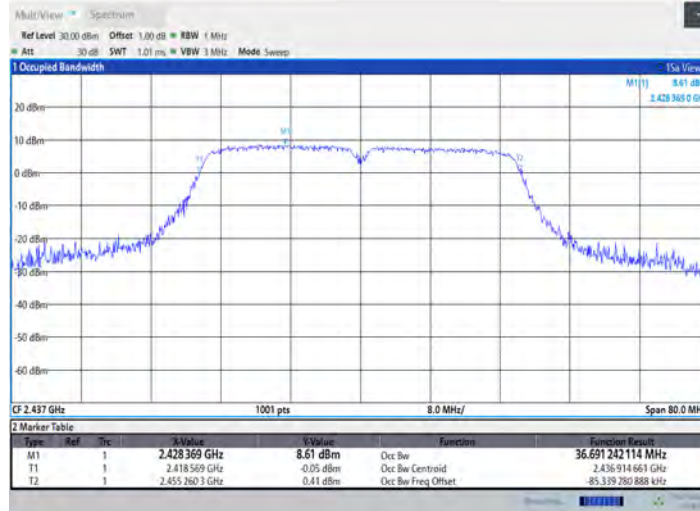


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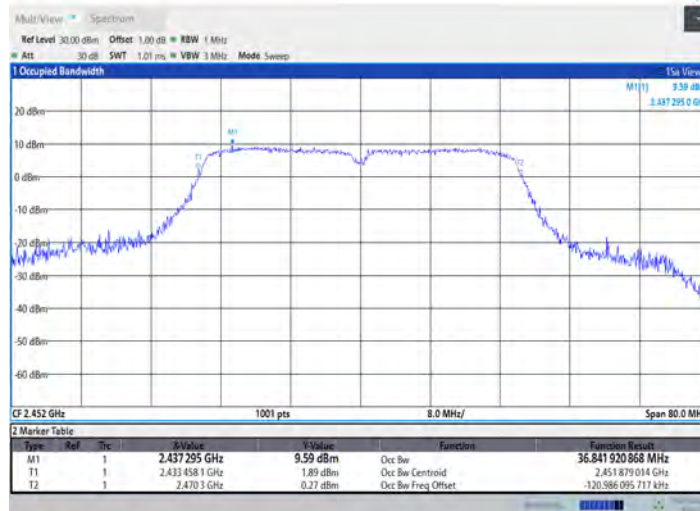
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11n40SISO_Ant1_2437



16:14:59 26.07.2022

11n40SISO_Ant1_2452



18:45:20 26.07.2022



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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	19.43	≤30.00	PASS
		2437	19.20	≤30.00	PASS
		2462	18.93	≤30.00	PASS
11g	Ant1	2412	24.75	≤30.00	PASS
		2437	24.43	≤30.00	PASS
		2457	24.13	≤30.00	PASS
		2462	23.29	≤30.00	PASS
11n20SISO	Ant1	2412	23.96	≤30.00	PASS
		2437	23.57	≤30.00	PASS
		2457	23.29	≤30.00	PASS
		2462	22.52	≤30.00	PASS
11n40SISO	Ant1	2422	22.78	≤30.00	PASS
		2437	22.56	≤30.00	PASS
		2452	23.15	≤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	Ant1	2412	-5.24	≤8.00	PASS
		2437	-6.26	≤8.00	PASS
		2462	-6.21	≤8.00	PASS
11g	Ant1	2412	-8.63	≤8.00	PASS
		2437	-8.9	≤8.00	PASS
		2457	-8.6	≤8.00	PASS
		2462	-10.31	≤8.00	PASS
11n20SISO	Ant1	2412	-9.48	≤8.00	PASS
		2437	-10.2	≤8.00	PASS
		2457	-9.7	≤8.00	PASS
		2462	-12.16	≤8.00	PASS
11n40SISO	Ant1	2422	-13.08	≤8.00	PASS
		2437	-11.7	≤8.00	PASS
		2452	-12.86	≤8.00	PASS

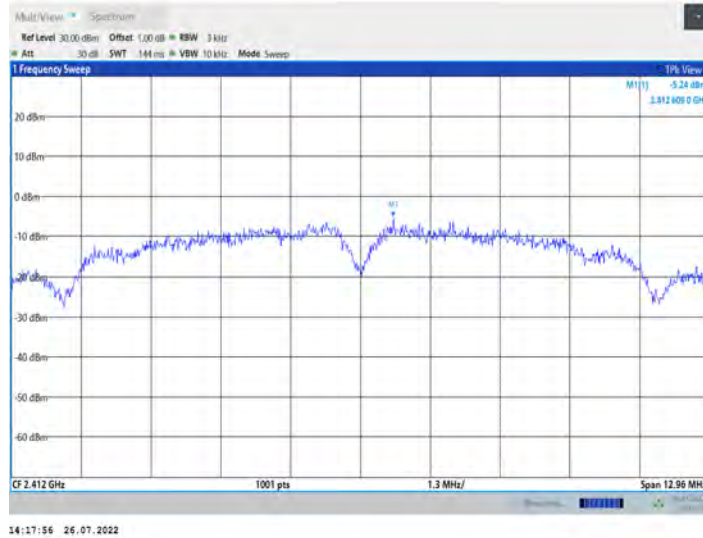


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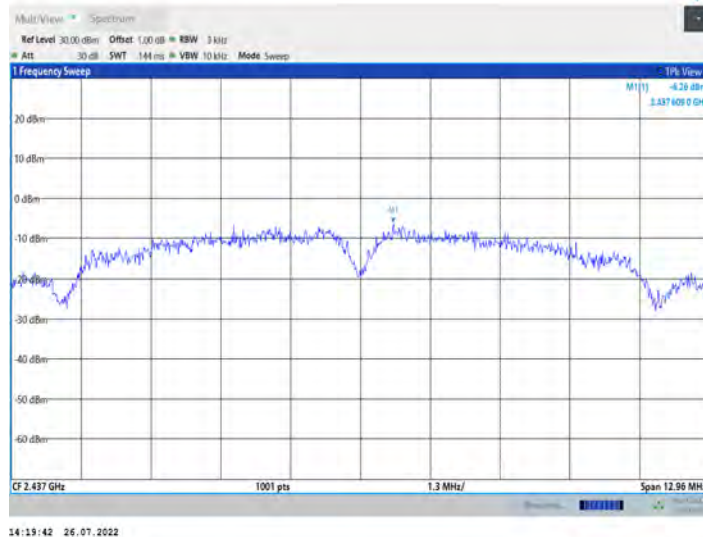
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Test Graphs

11b_Ant1_2412



11b_Ant1_2437

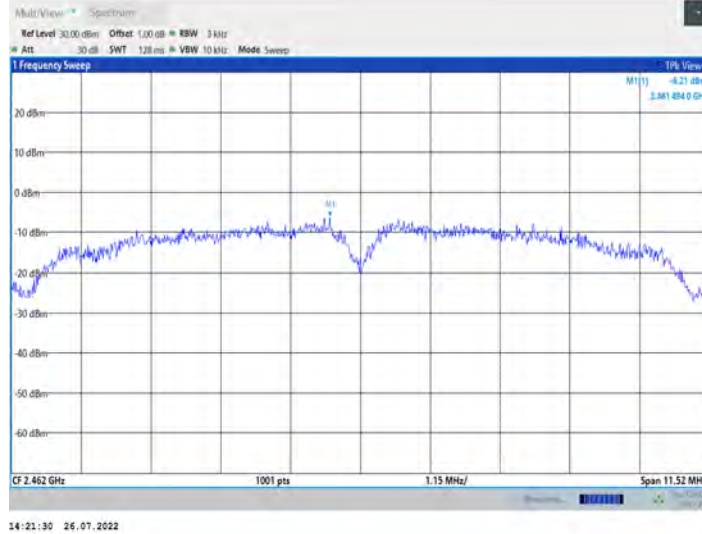


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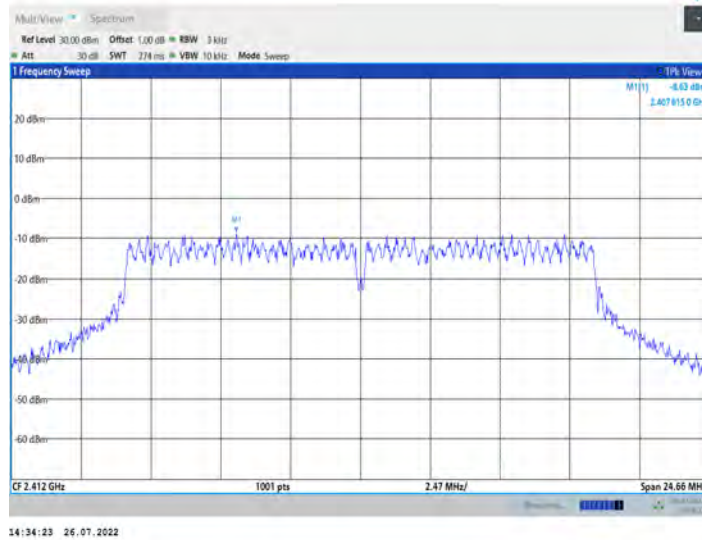
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11b_Ant1_2462



11g_Ant1_2412

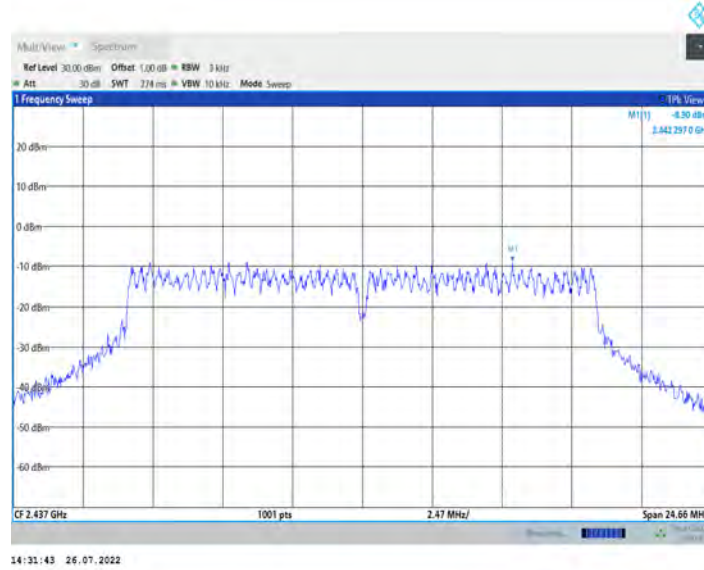


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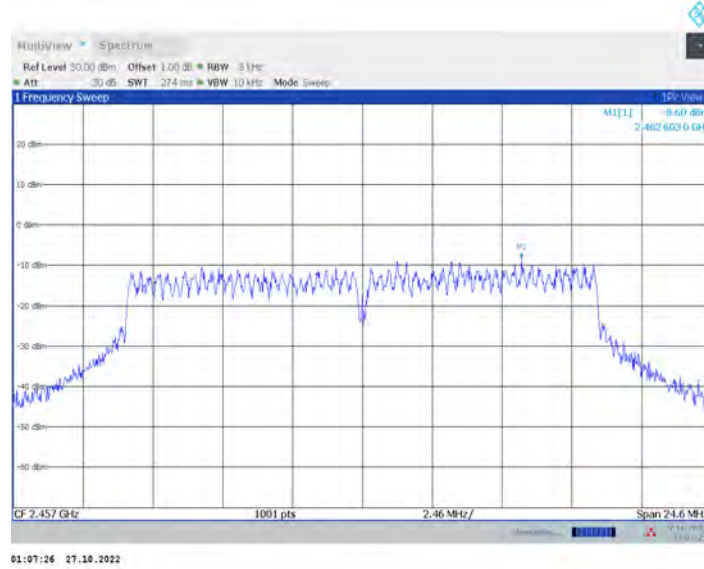
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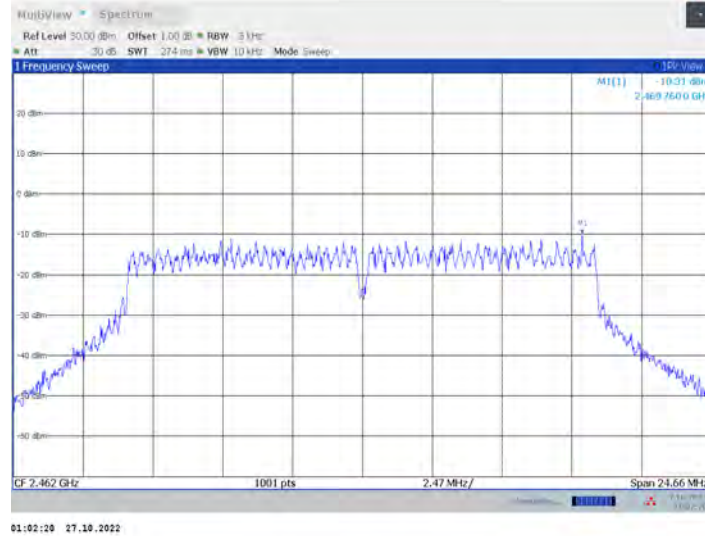


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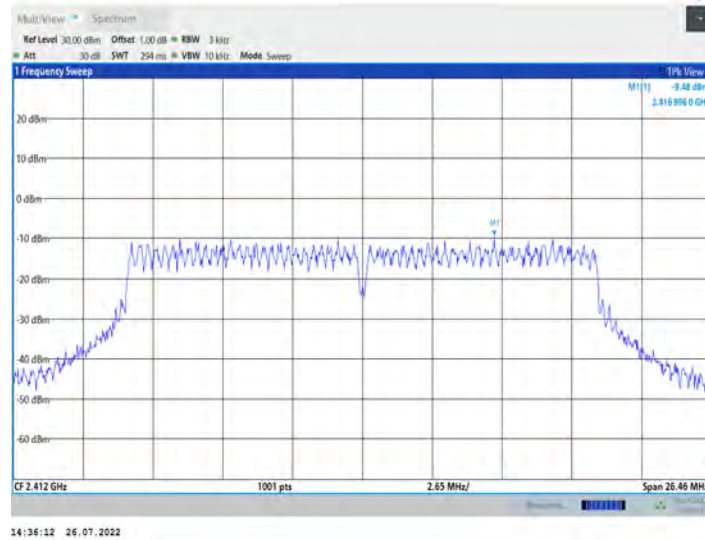


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11g_Ant1_2462



11n20SISO_Ant1_2412

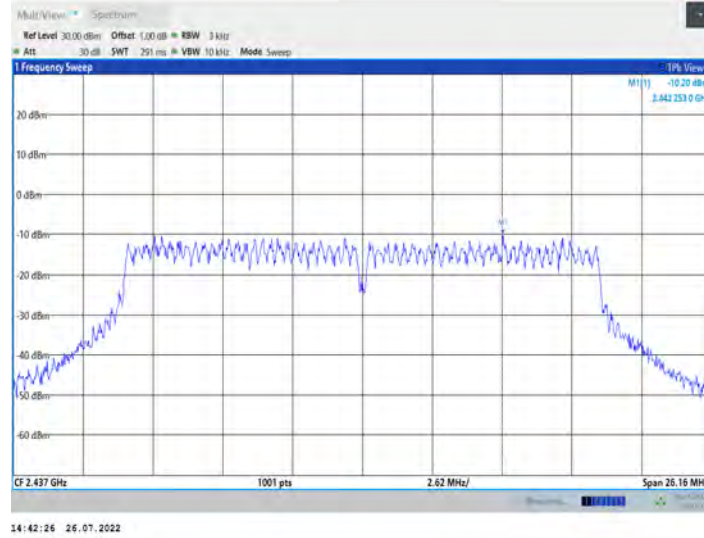


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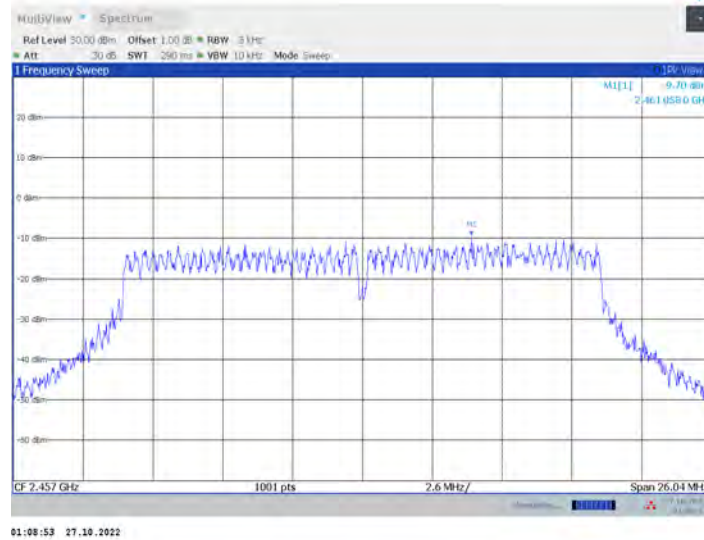
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11n20SISO_Ant1_2437



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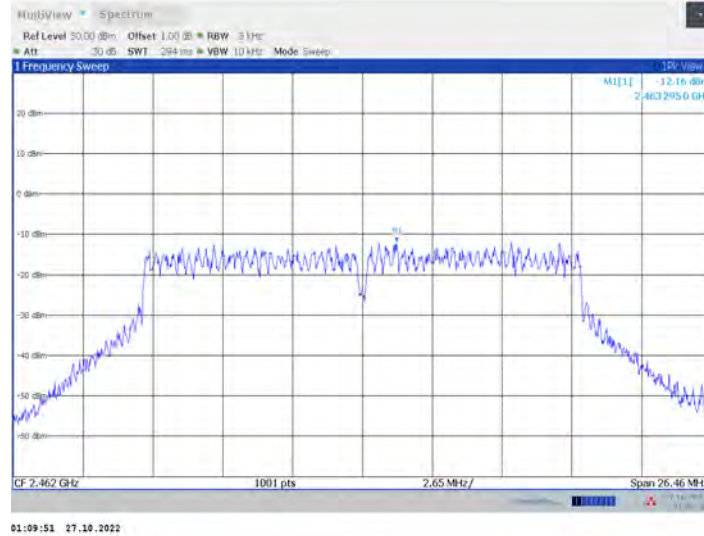


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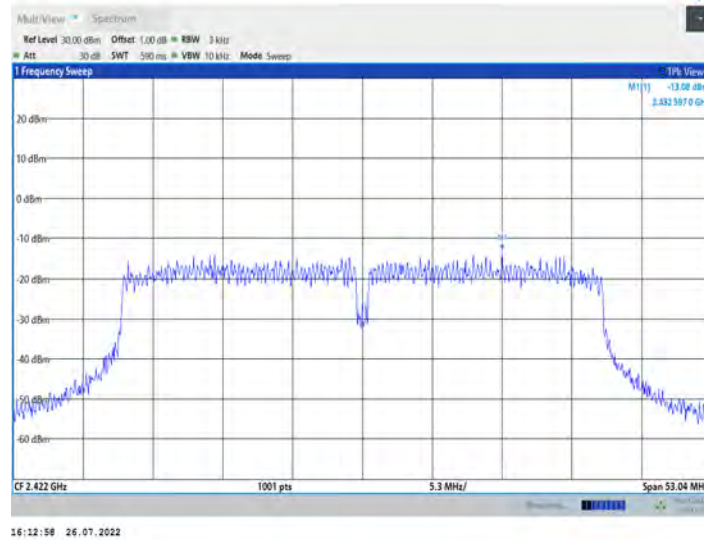
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11n20SISO_Ant1_2462



11n40SISO_Ant1_2422

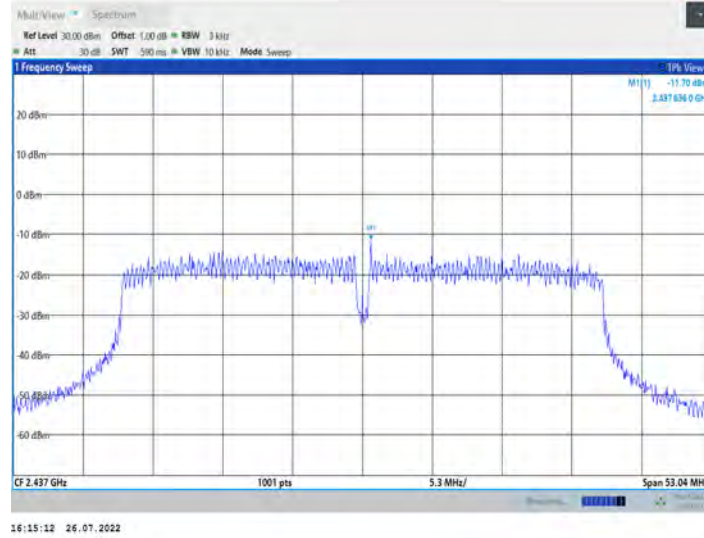


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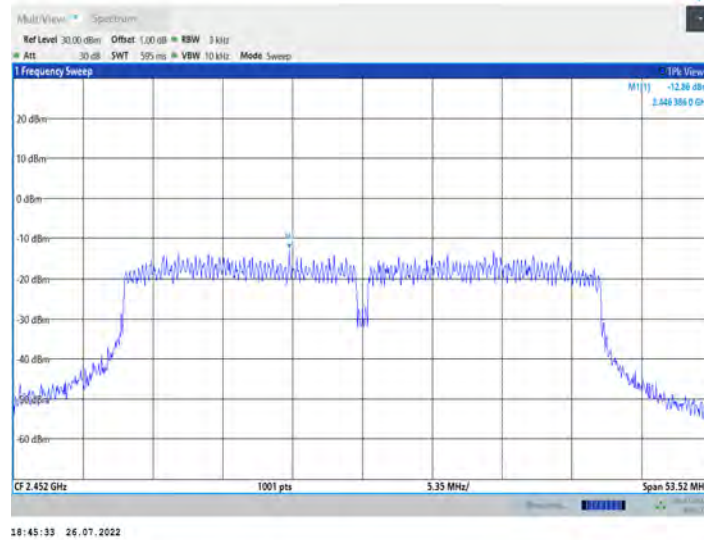
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11n40SISO_Ant1_2437



11n40SISO_Ant1_2452



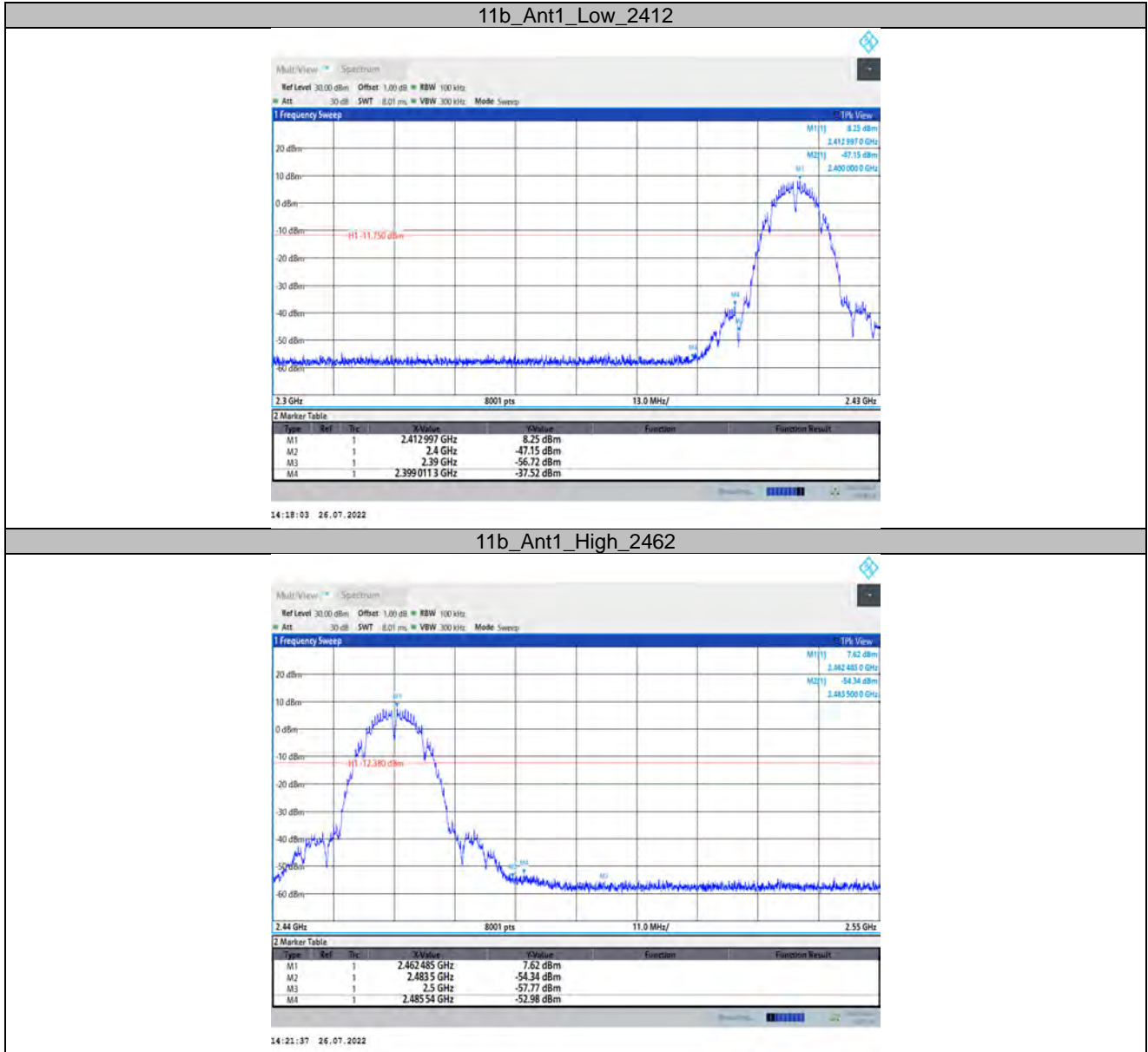
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Band edge measurements

Test Graphs

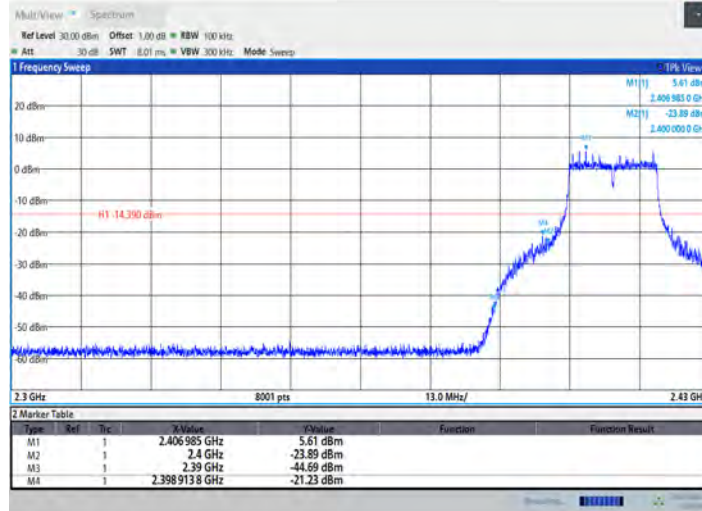


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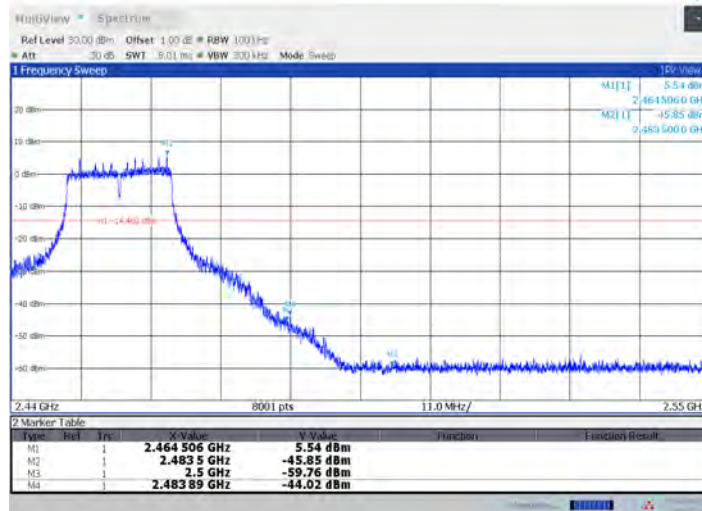
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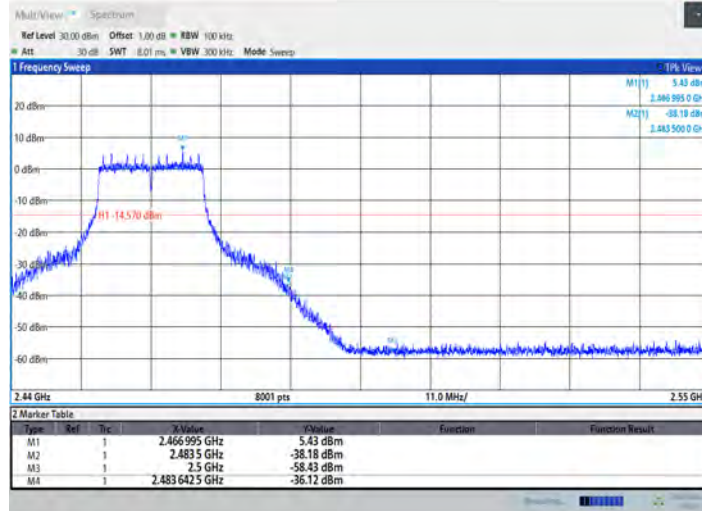


01:07:32 27.10.2022



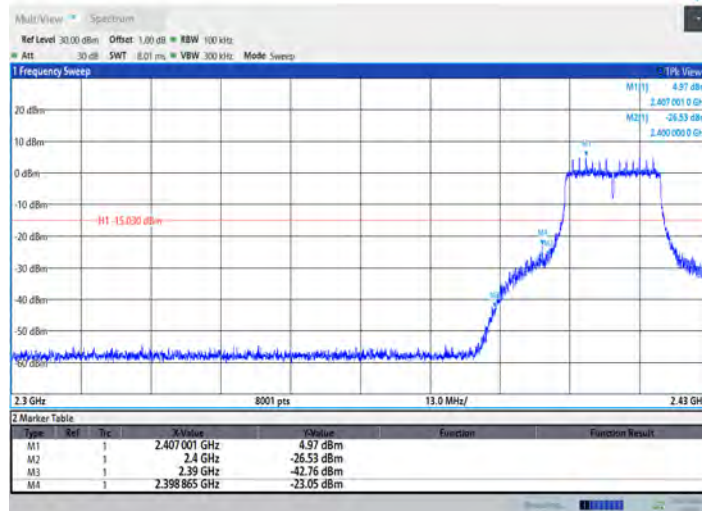
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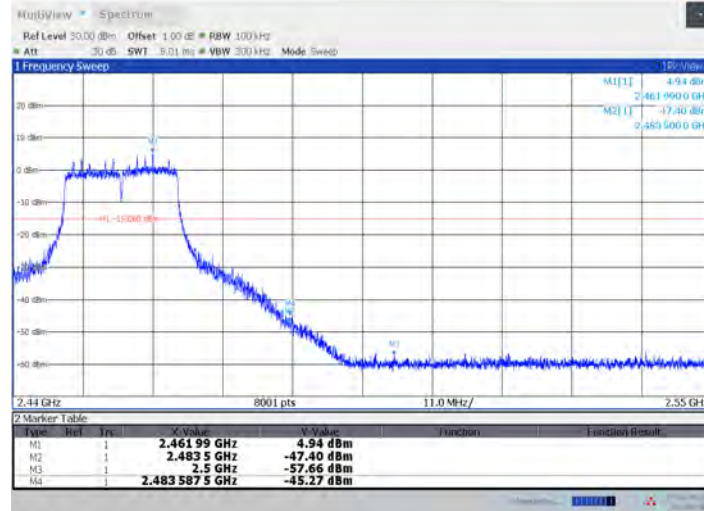
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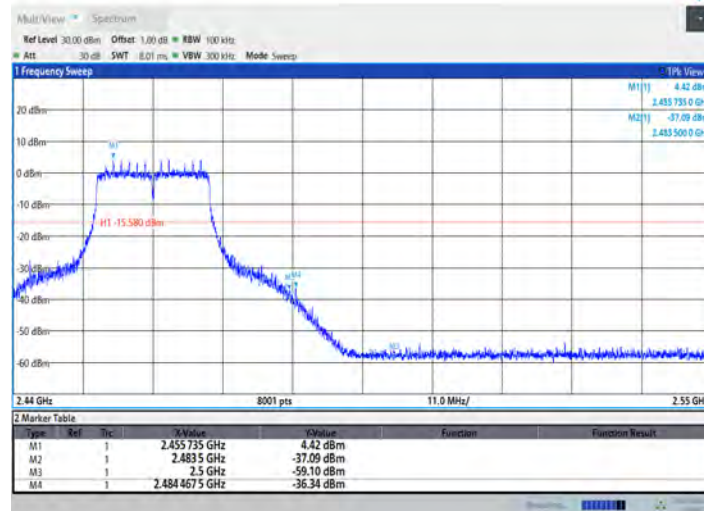
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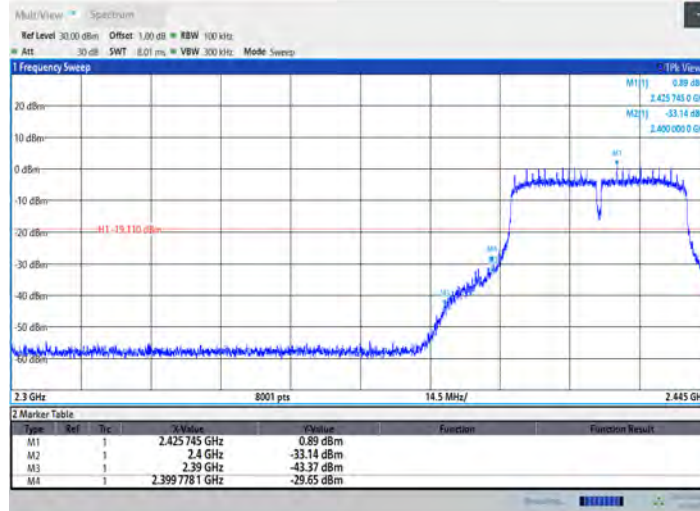
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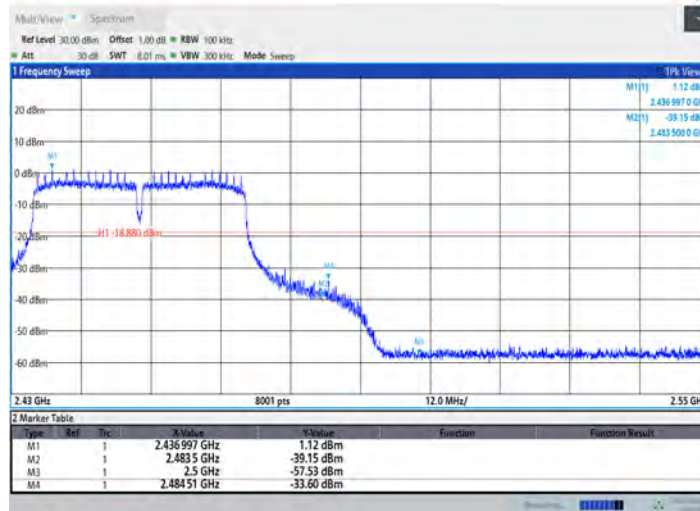
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18:48:09 26.07.2022



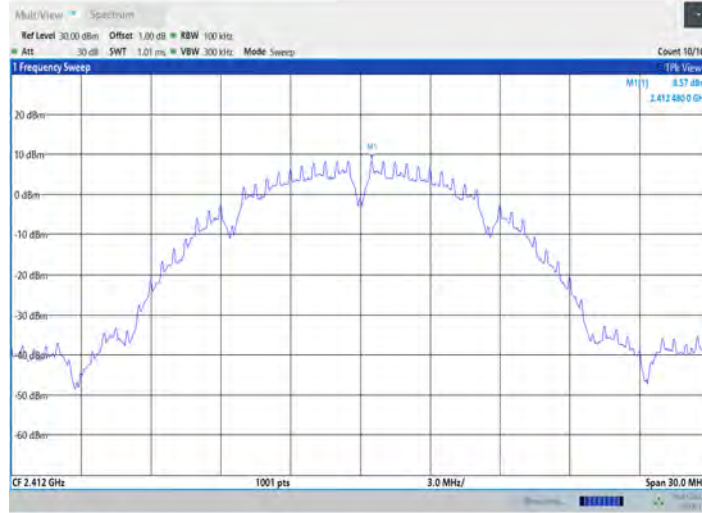
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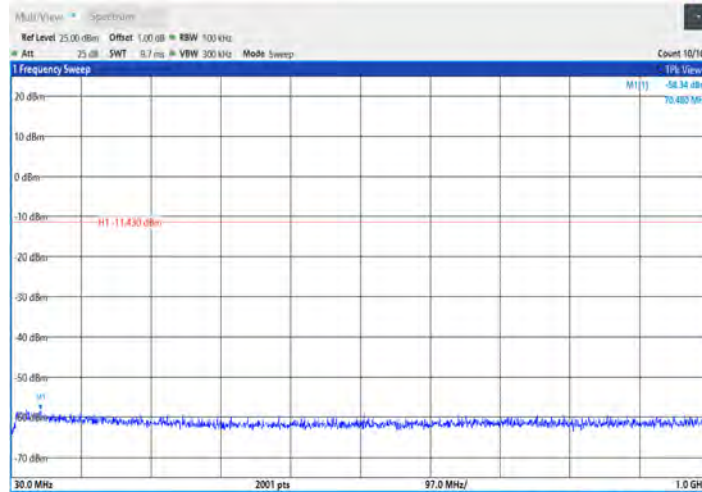
Conducted Spurious Emission Test Graphs

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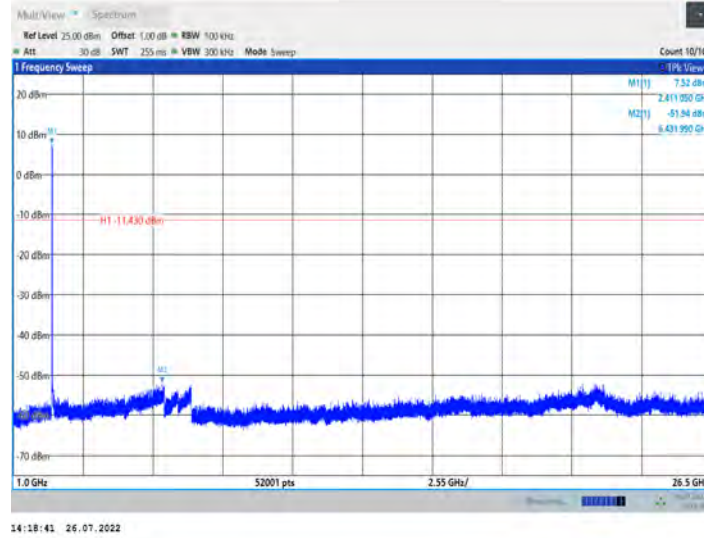
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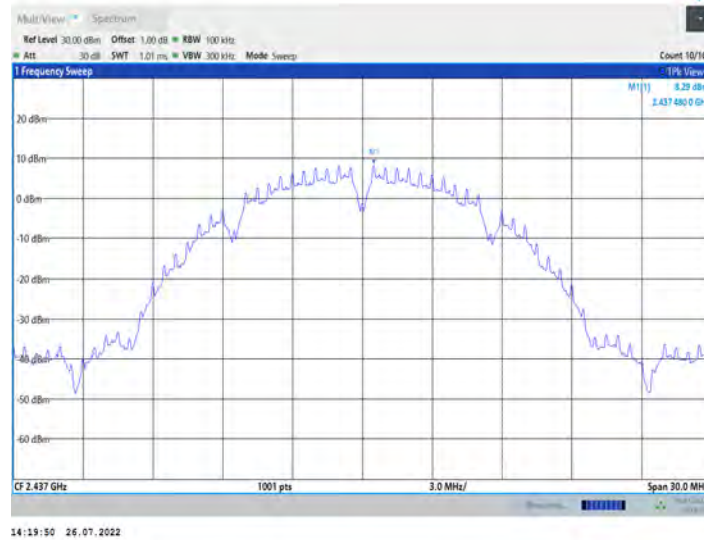
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11b_Ant1_2437_0~Reference

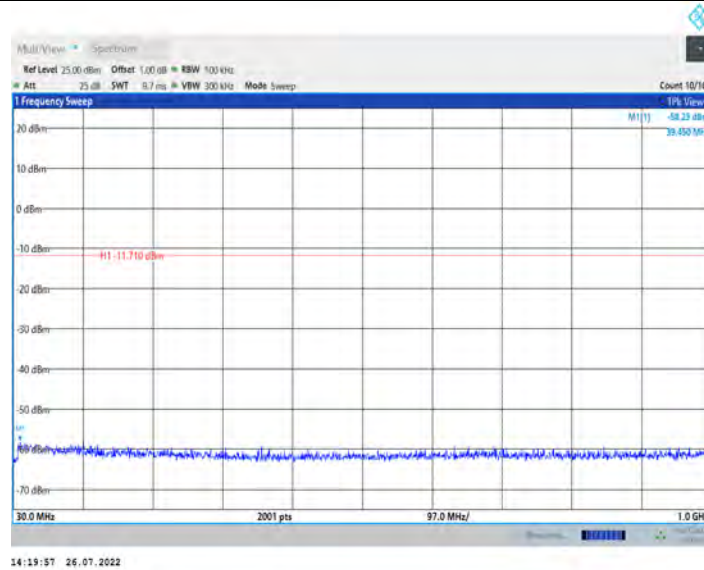


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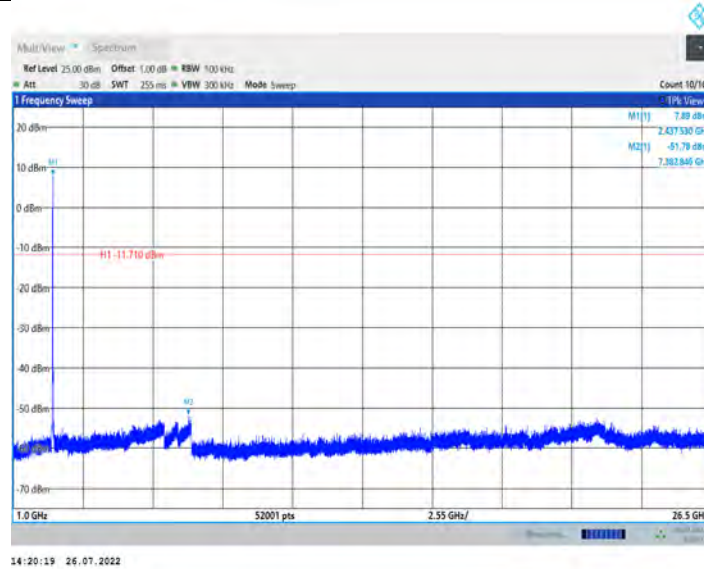
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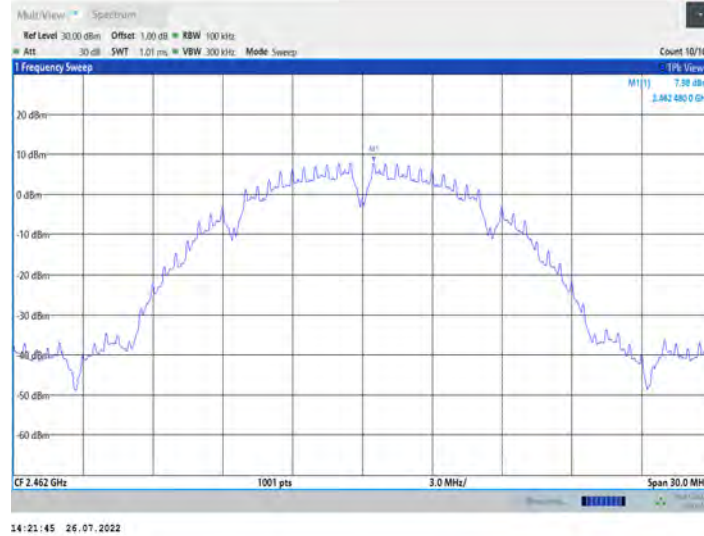


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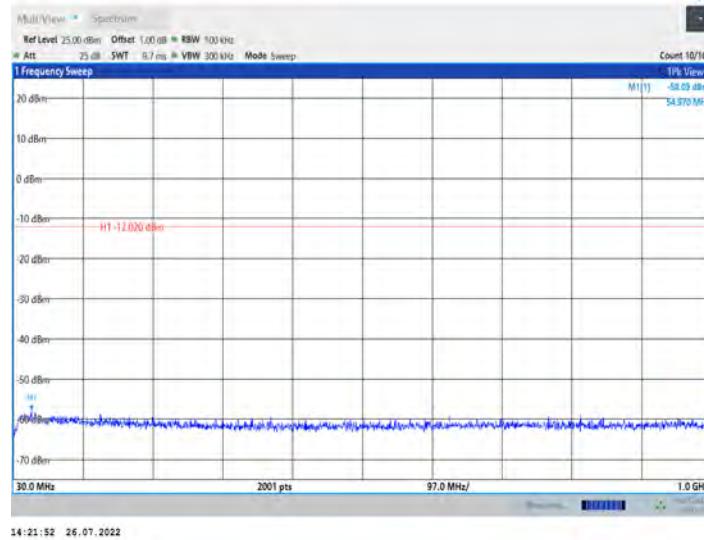
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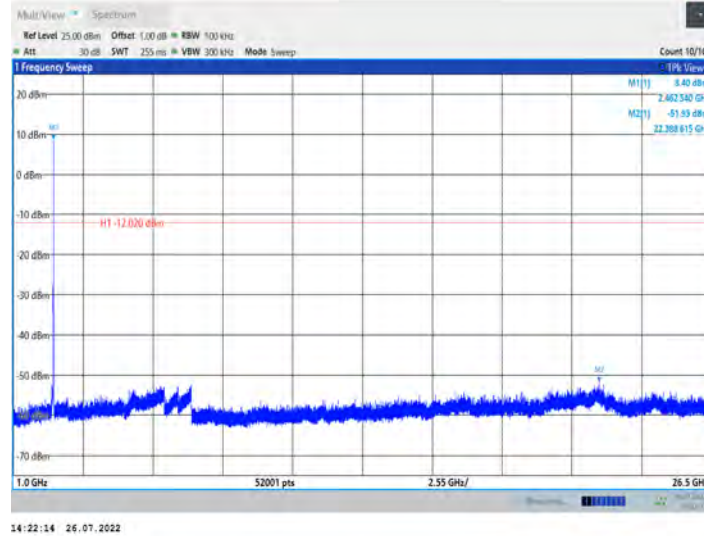


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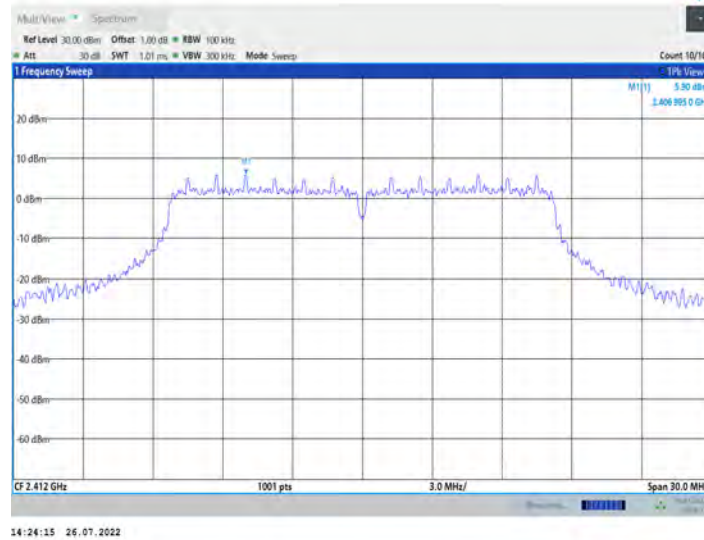
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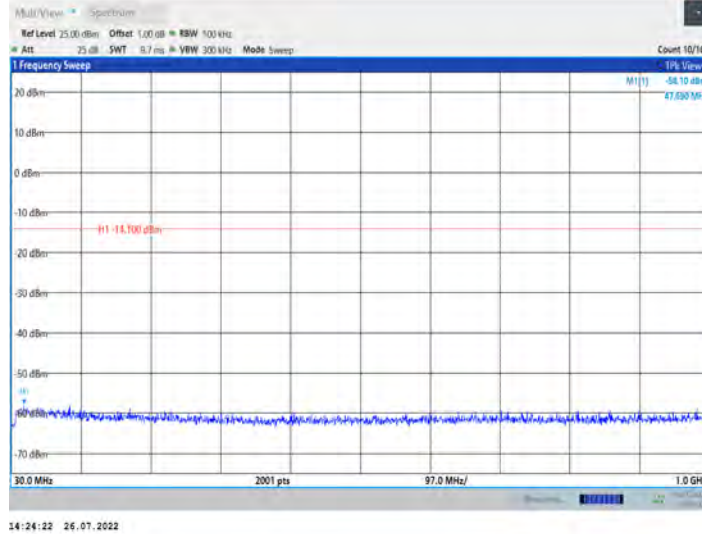


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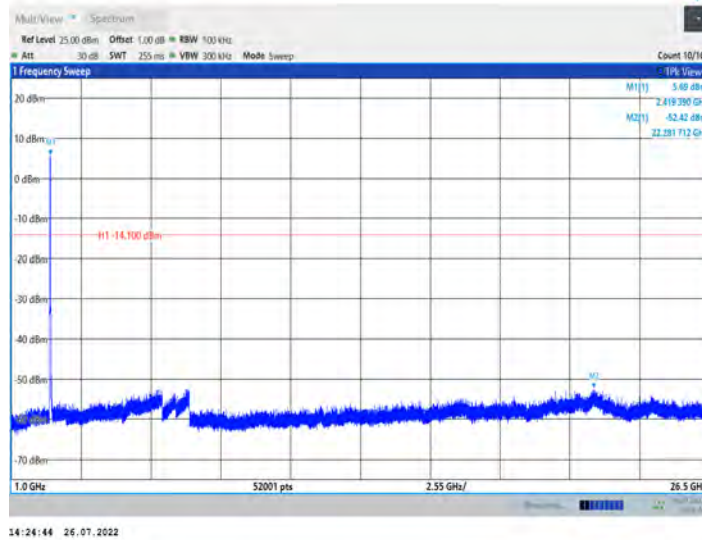


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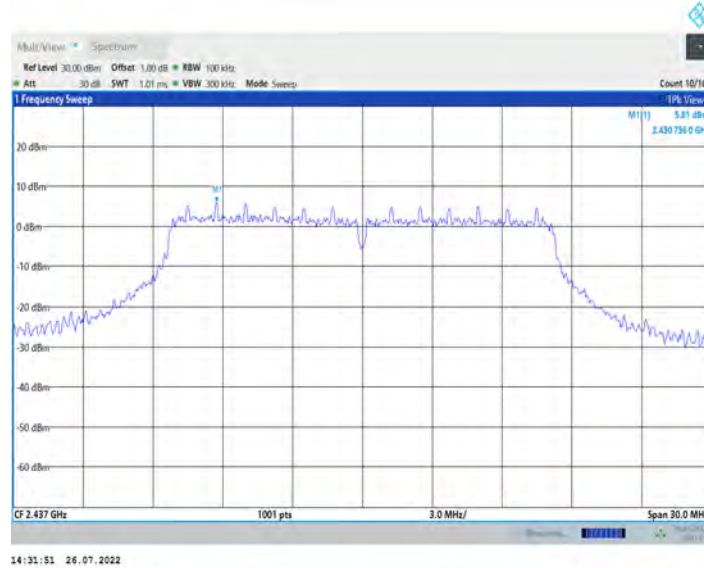


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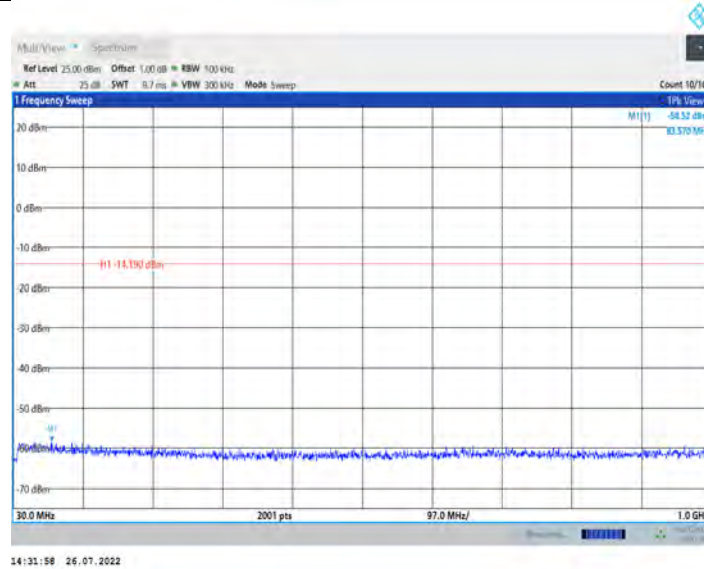
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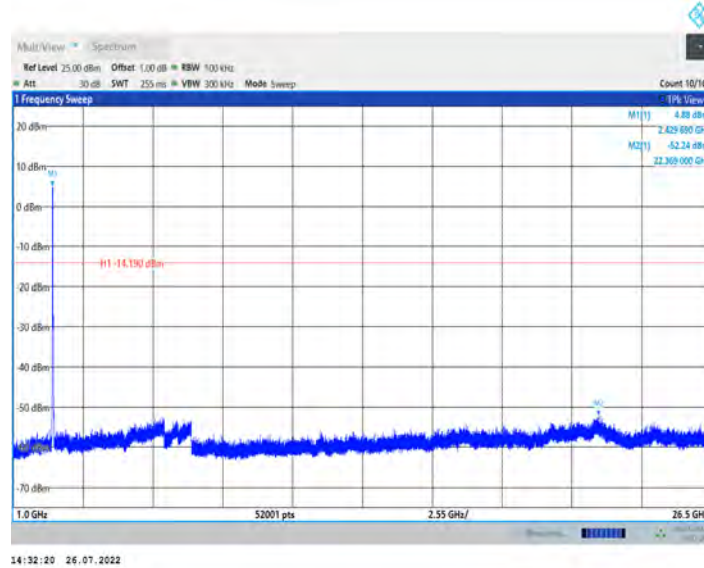


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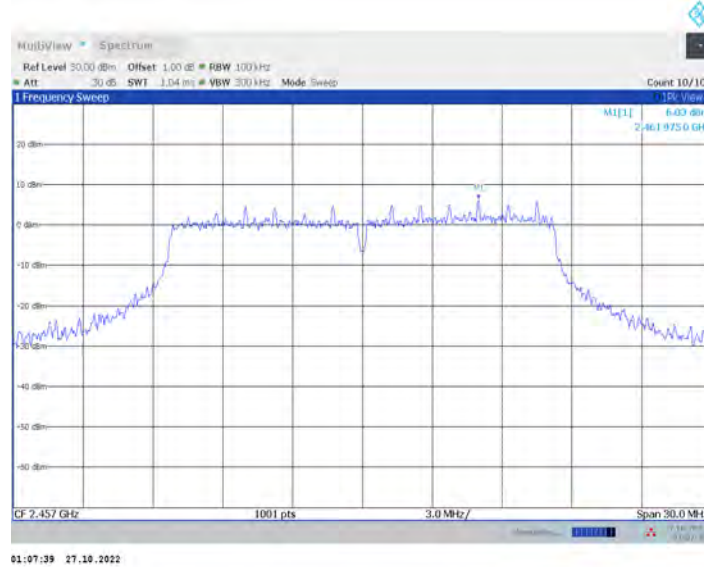
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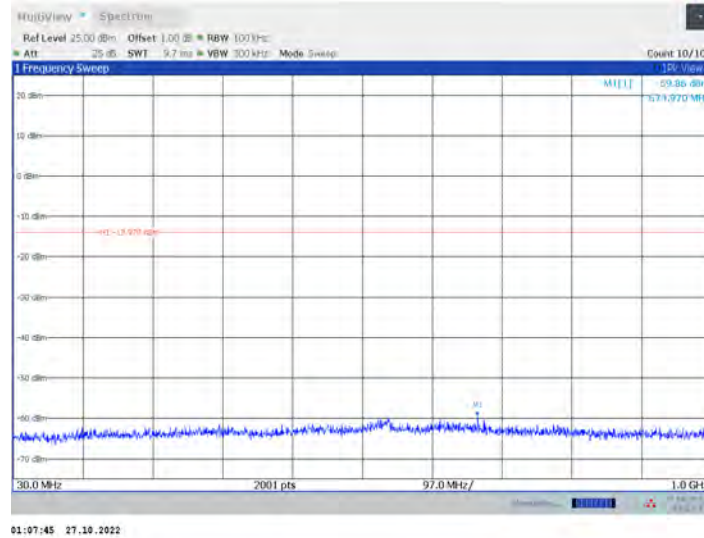


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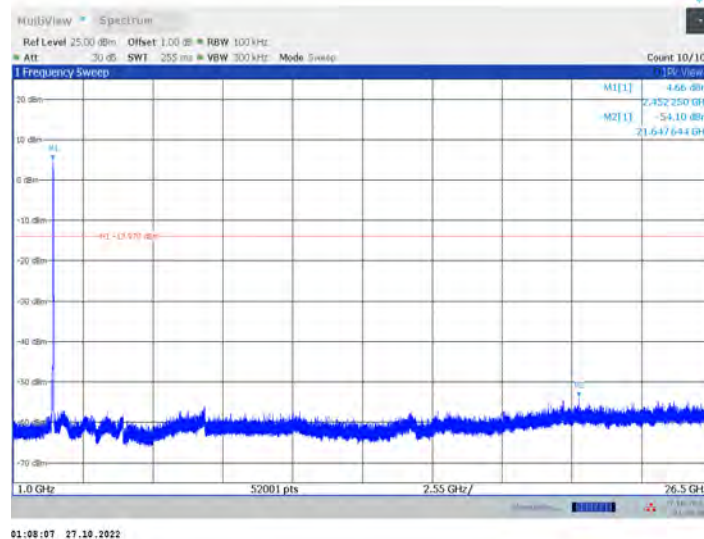
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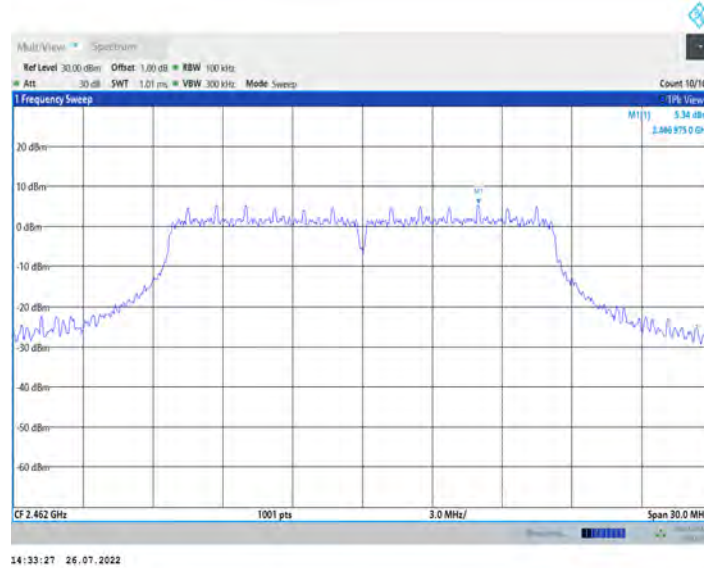


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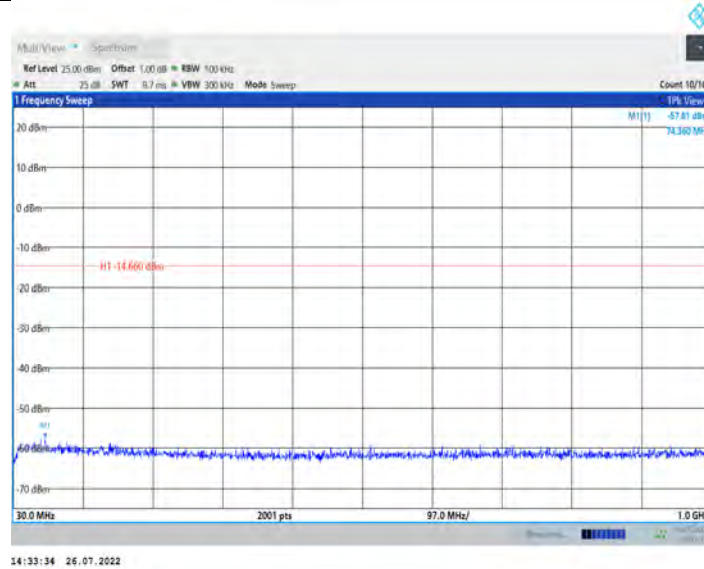
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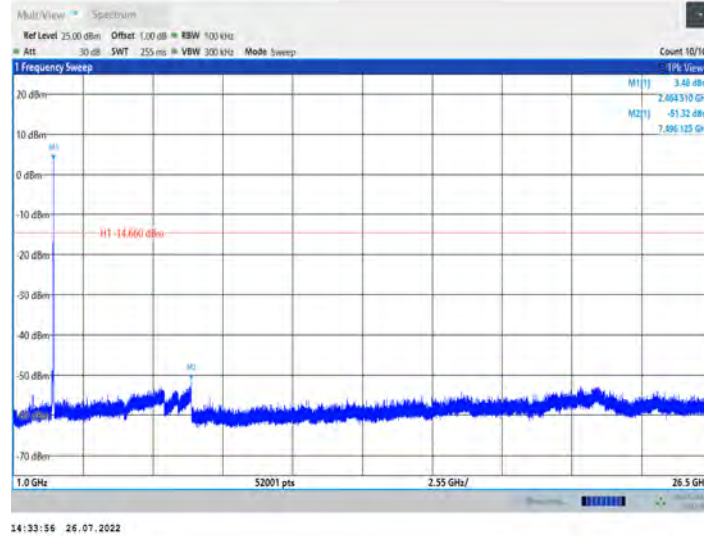


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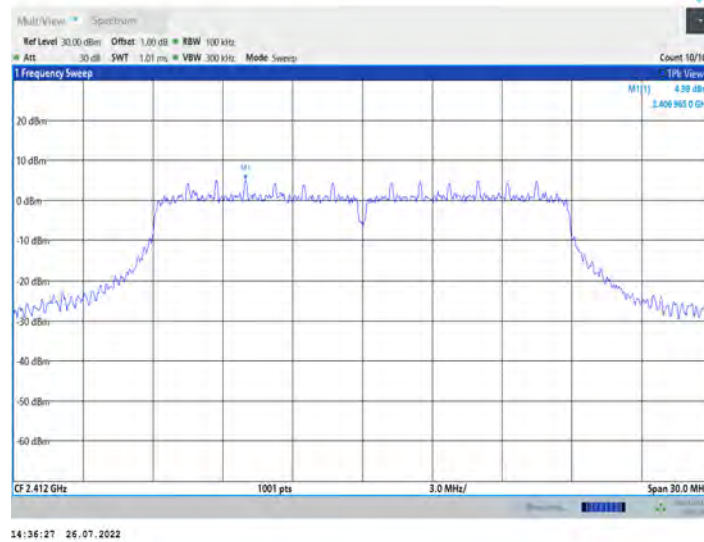
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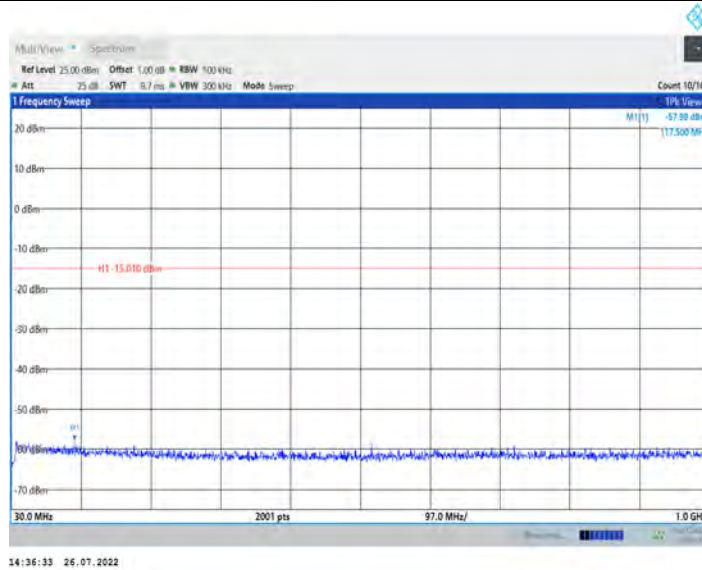


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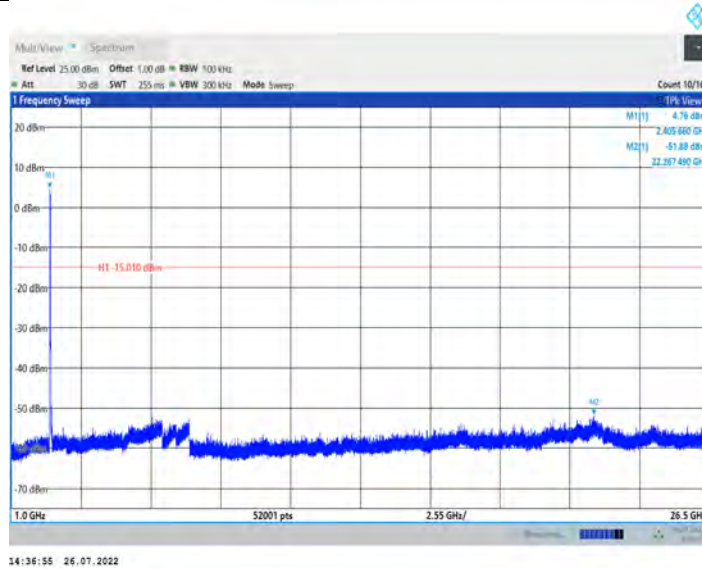
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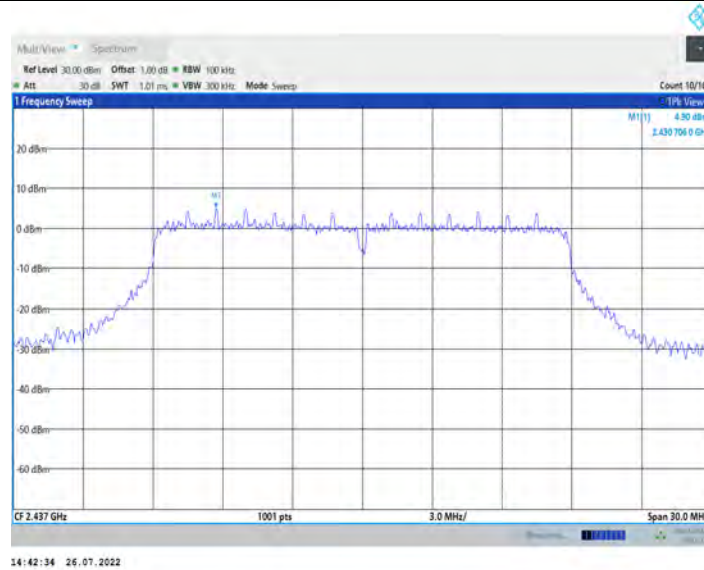


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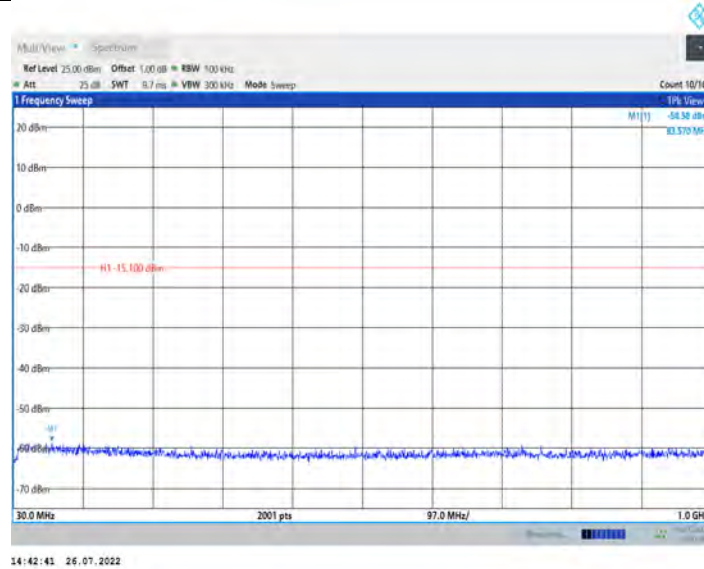
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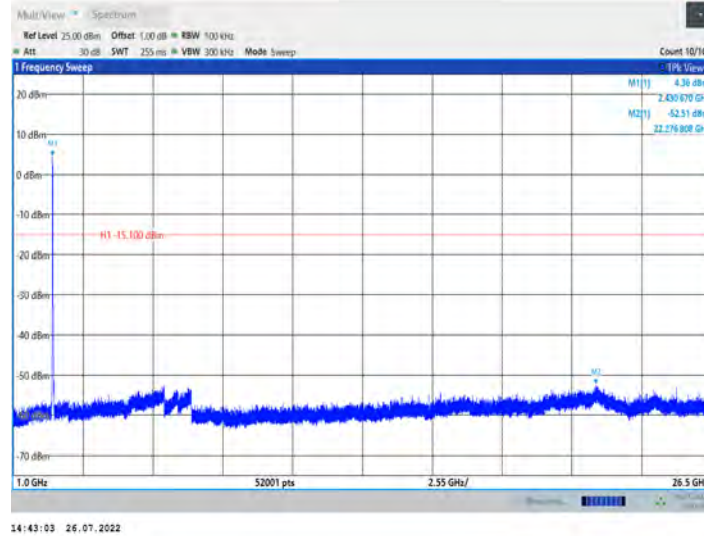


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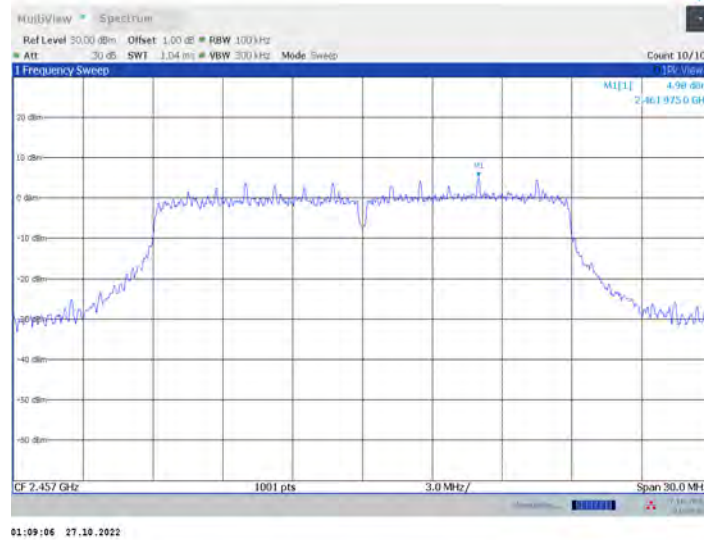
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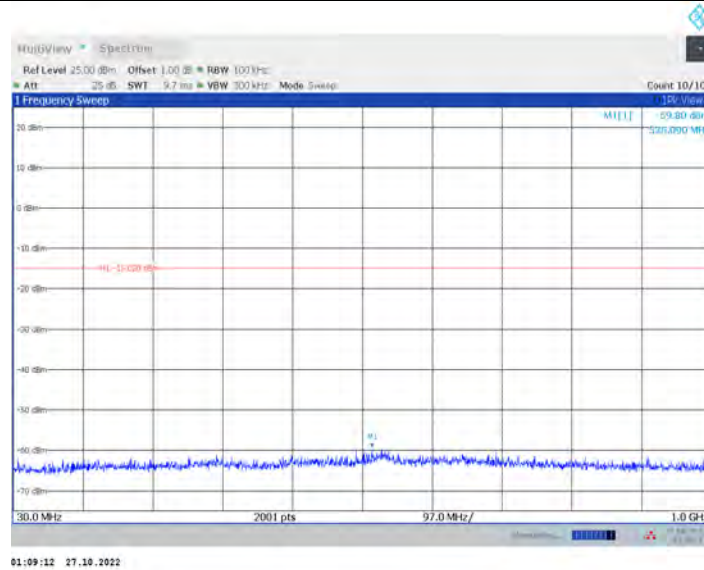


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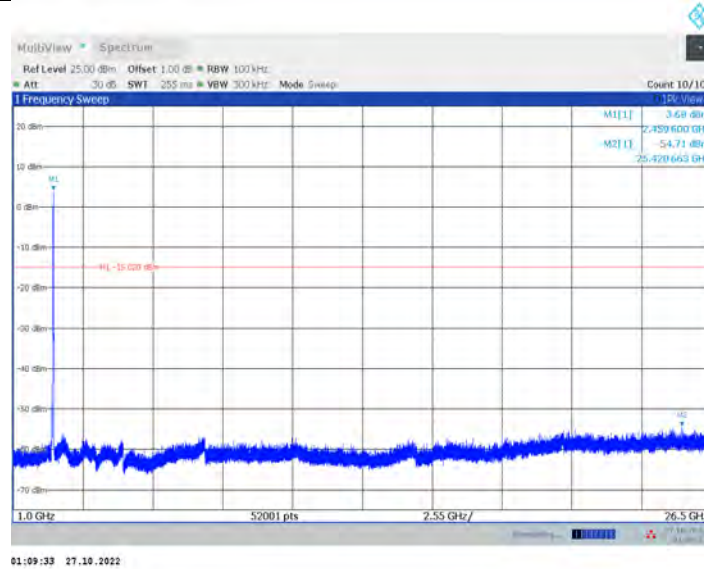


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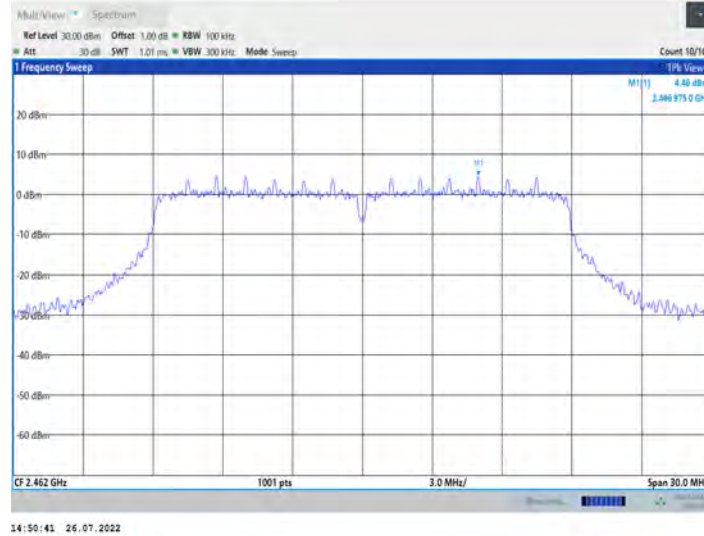


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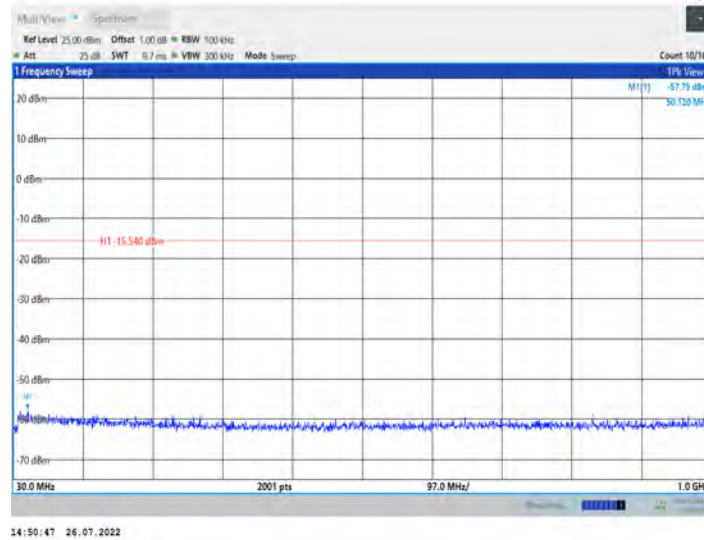
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11n20SISO_Ant1_2462_0~Reference

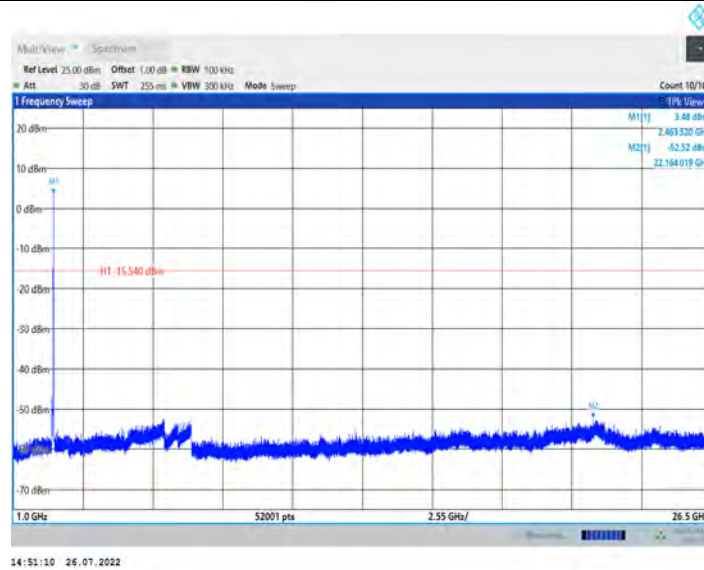


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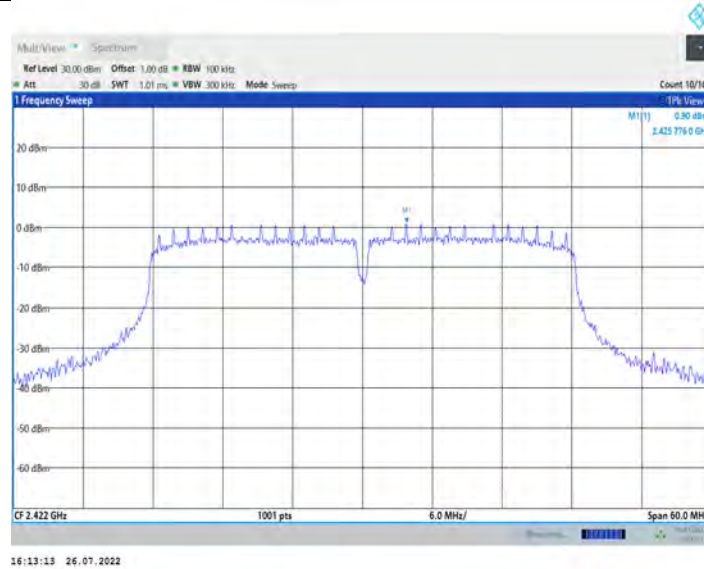


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11n20SISO_Ant1_2462_1000~26500



11n40SISO_Ant1_2422_0~Reference

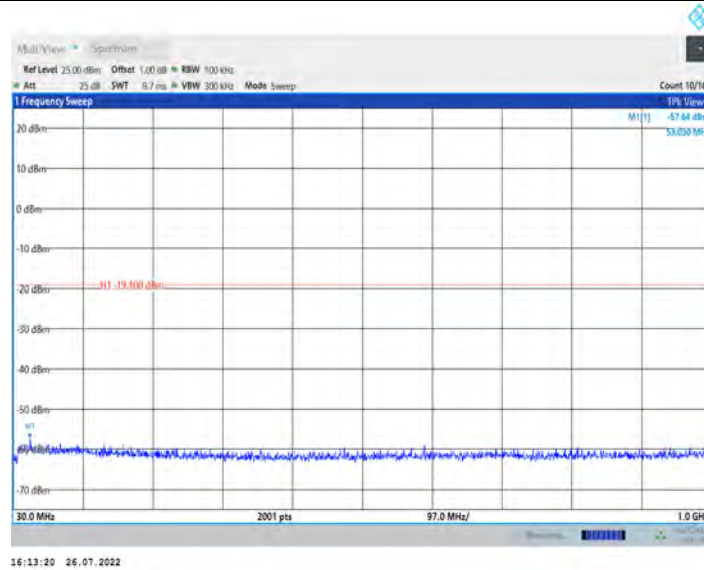


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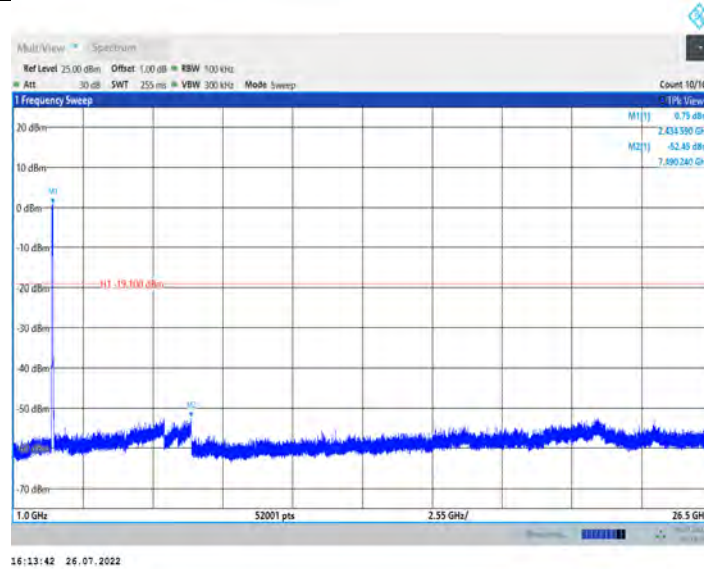
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11n40SISO_Ant1_2422_30~1000



11n40SISO_Ant1_2422_1000~26500

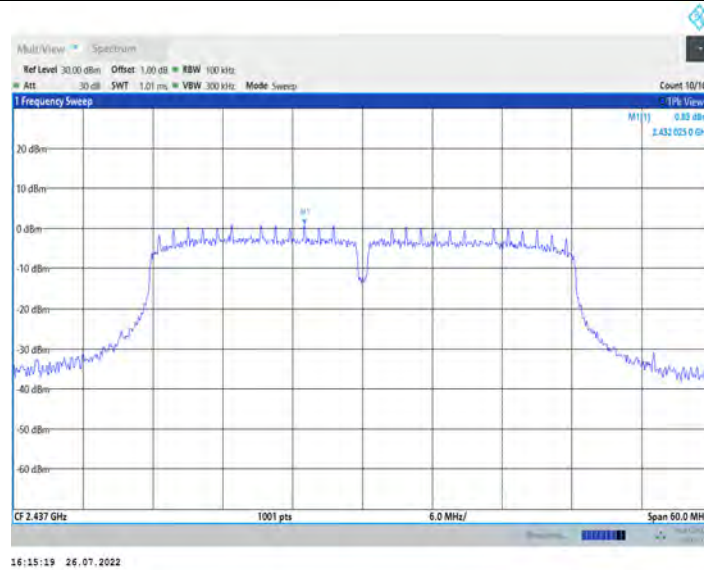


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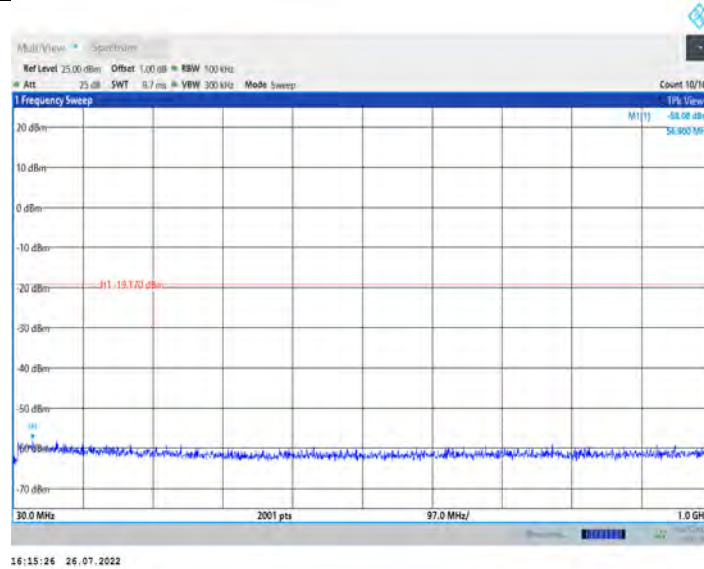
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11n40SISO_Ant1_2437_0~Reference



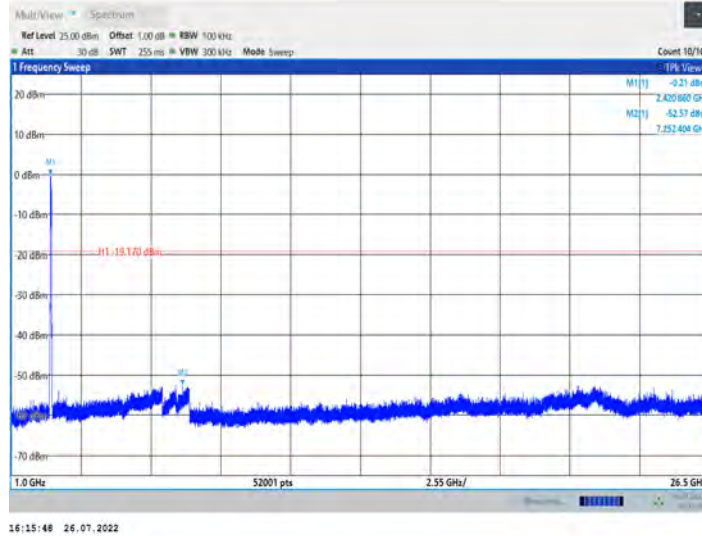
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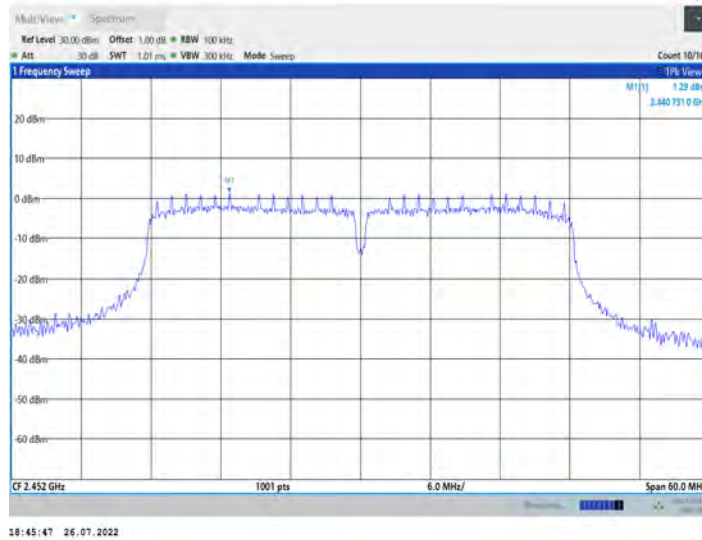
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11n40SISO_Ant1_2437_1000-26500



11n40SISO_Ant1_2452_0~Reference

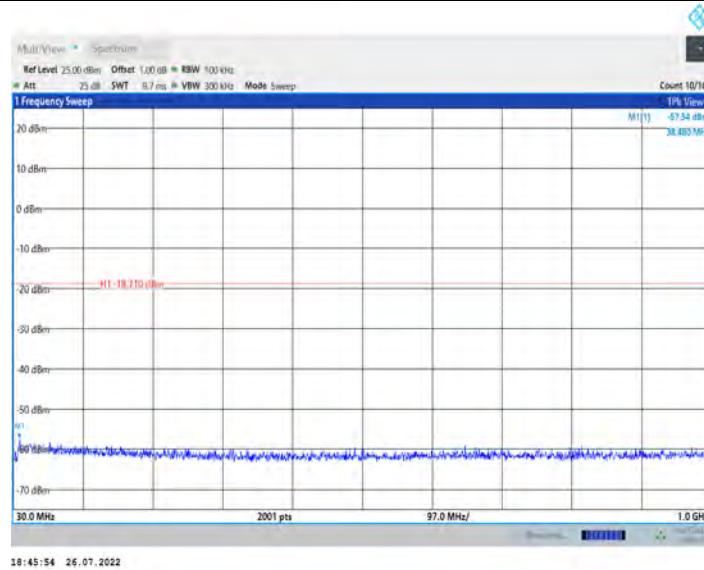


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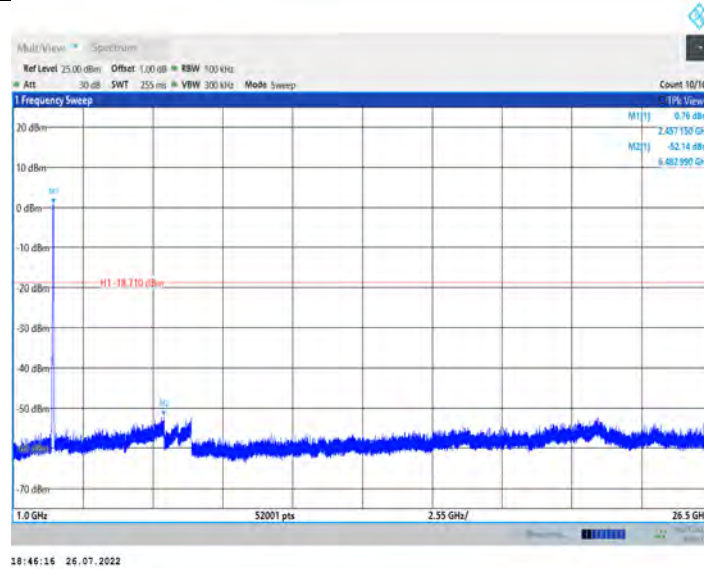
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Report No.: SEWA2206000022RG04

Rev.: 01

Page: 82 of 134

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	20.00	20.00	100.00
11g	Ant1	2412	1.36	1.38	98.55
11n20SISO	Ant1	2412	1.28	1.30	98.46
11n40SISO	Ant1	2422	1.22	1.24	98.39



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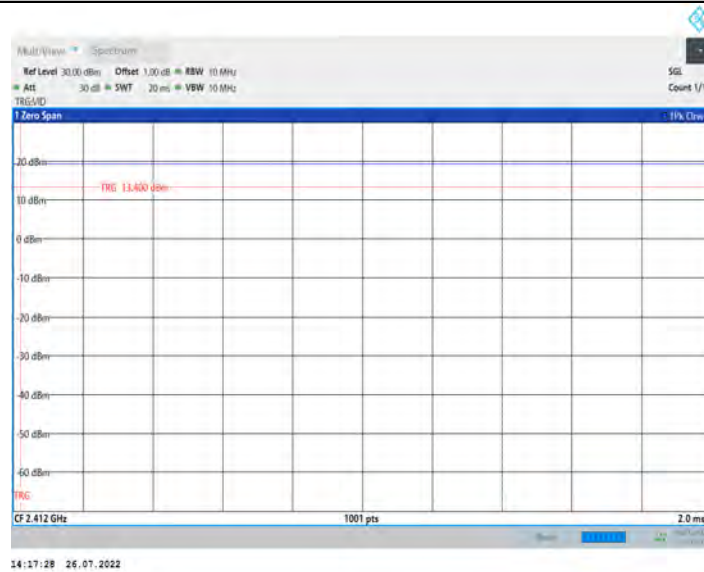
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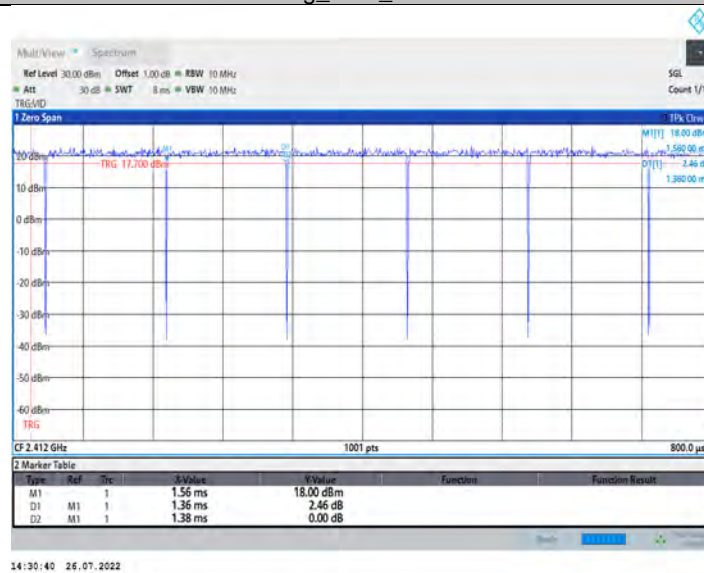
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Test Graphs

11b_Ant1_2412



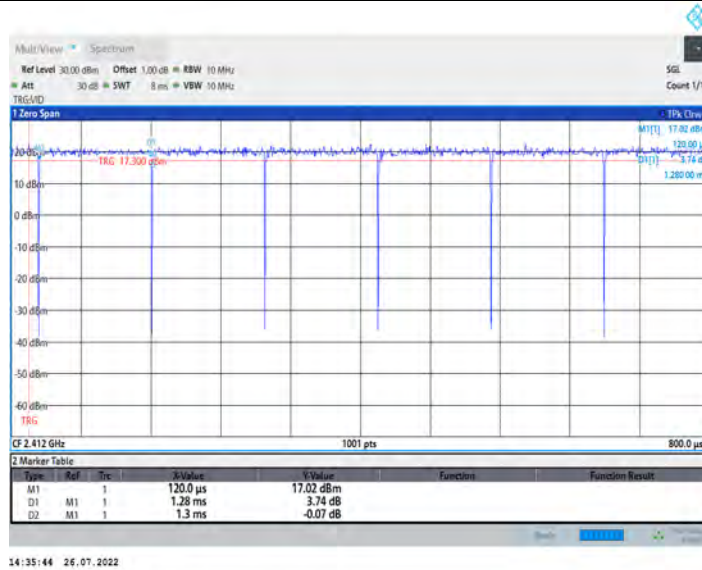
11g_Ant1_2412



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11n20SISO_Ant1_2412



14:35:44 26.07.2022

11n40SISO_Ant1_2422

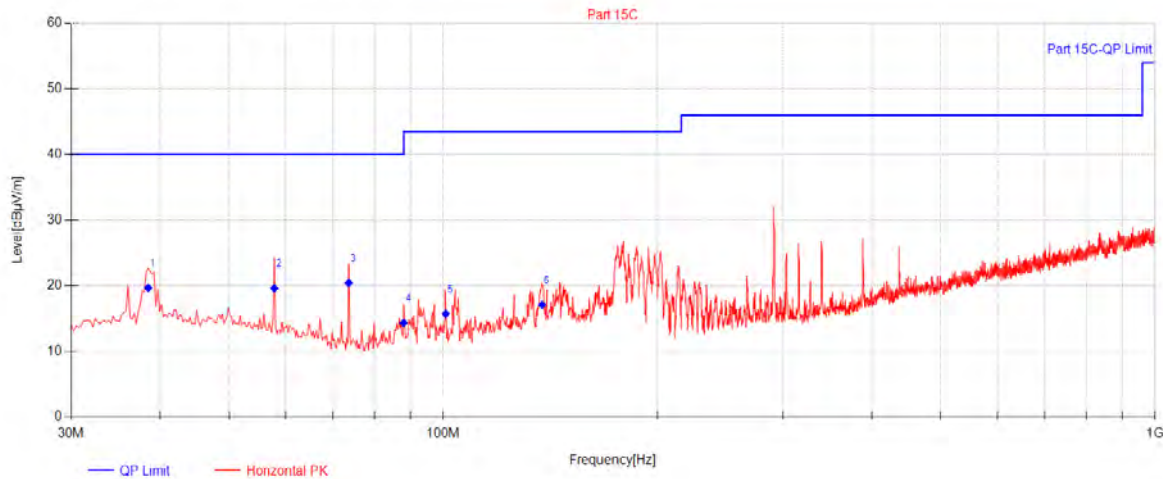


16:12:31 26.07.2022



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Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode: 11n20_Channel 11
11n20_Channel 11



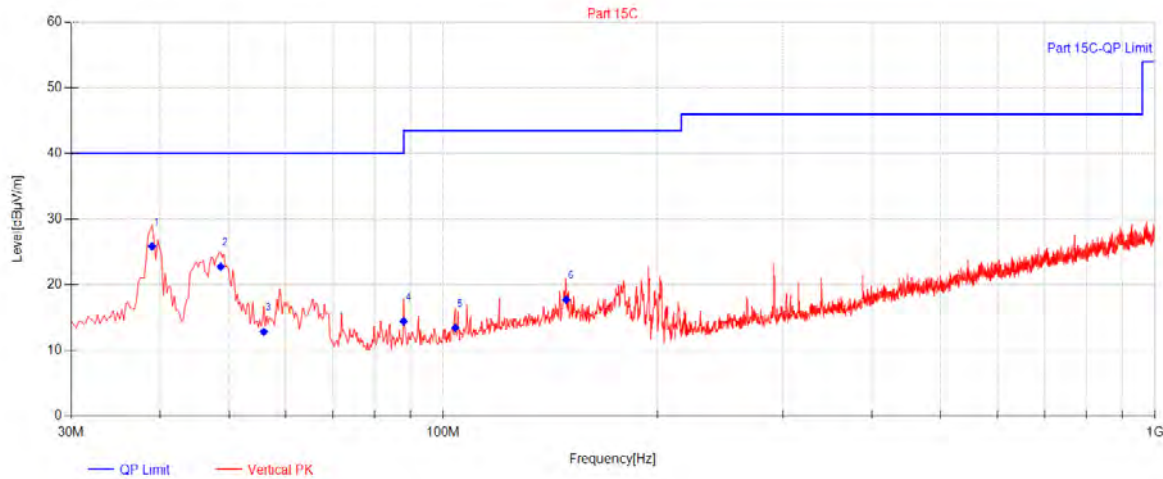
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.4875	42.13	-36.34	13.86	19.66	40.00	20.34	216	2	Horizontal
2	57.8875	43.02	-36.35	12.92	19.59	40.00	20.41	215	349	Horizontal
3	73.65	46.33	-36.20	10.26	20.40	40.00	19.60	132	338	Horizontal
4	87.9575	41.22	-36.27	9.41	14.36	40.00	25.64	126	171	Horizontal
5	100.81	41.26	-35.79	10.23	15.70	43.50	27.80	195	129	Horizontal
6	137.67	39.33	-35.57	13.34	17.10	43.50	26.40	148	314	Horizontal



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11n20_Channel 11



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.9725	48.25	-36.31	13.93	25.87	40.00	14.13	215	298	Vertical
2	48.6725	45.33	-36.16	13.57	22.74	40.00	17.26	145	166	Vertical
3	55.9475	36.03	-36.29	13.07	12.81	40.00	27.19	196	350	Vertical
4	87.9575	41.29	-36.27	9.41	14.43	40.00	25.57	125	195	Vertical
5	103.9625	38.81	-35.91	10.54	13.43	43.50	30.07	185	205	Vertical
6	148.825	39.22	-35.27	13.79	17.74	43.50	25.76	144	276	Vertical

Remark:

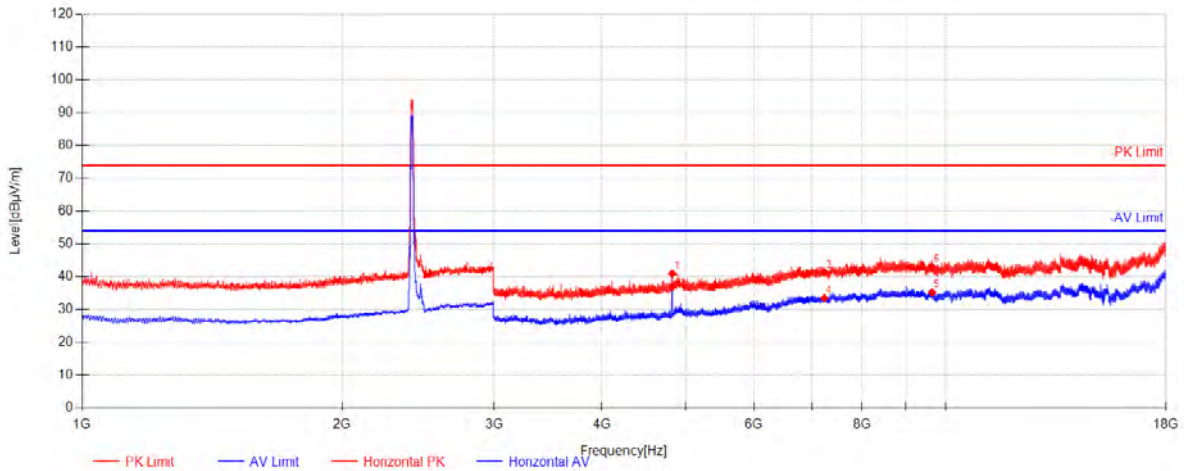
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- 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	54.06	32.39	-45.54	40.91	74.00	33.09	254	278	Horizontal
2	4824.5	50.13	32.39	-45.54	36.98	54.00	17.02	162	278	Horizontal
3	7236.0000	48.31	36.58	-43.54	41.35	74.00	32.65	132	84	Horizontal
4	7236.0000	40.45	36.58	-43.54	33.49	54.00	20.51	152	196	Horizontal
5	9648.0000	36.40	38.39	-39.56	35.23	54.00	18.77	196	222	Horizontal
6	9648.0000	44.19	38.39	-39.56	43.02	74.00	30.98	145	334	Horizontal

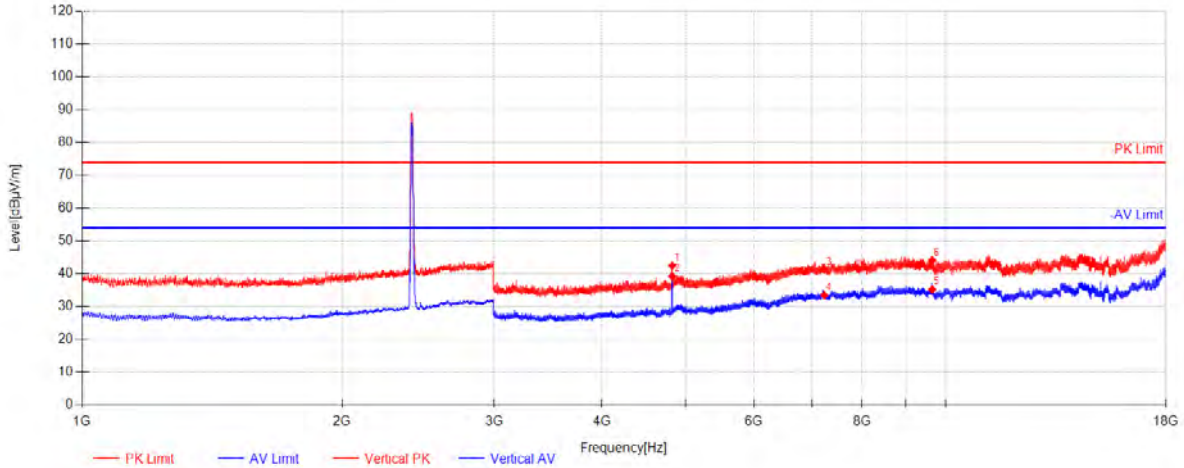


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802.11b_Channel 01

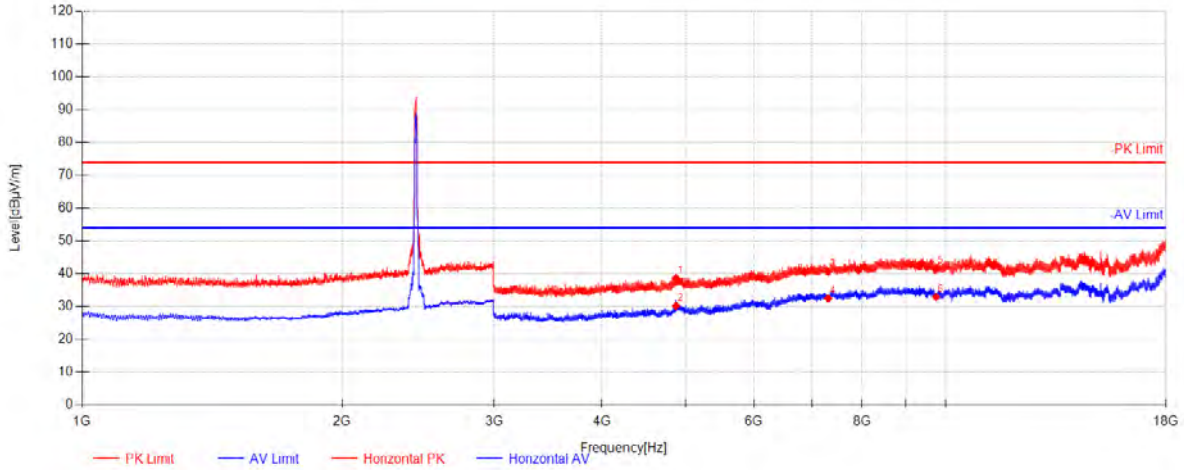


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	55.59	32.39	-45.54	42.44	74.00	31.56	254	83	Vertical
2	4824.5	52.35	32.39	-45.54	39.20	54.00	14.80	132	111	Vertical
3	7236.0000	48.27	36.58	-43.54	41.31	74.00	32.69	126	1	Vertical
4	7236.0000	40.43	36.58	-43.54	33.47	54.00	20.53	196	55	Vertical
5	9648.0000	36.40	38.39	-39.56	35.23	54.00	18.77	184	110	Vertical
6	9648.0000	45.29	38.39	-39.56	44.12	74.00	29.88	175	357	Vertical



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802.11b_Channel 06



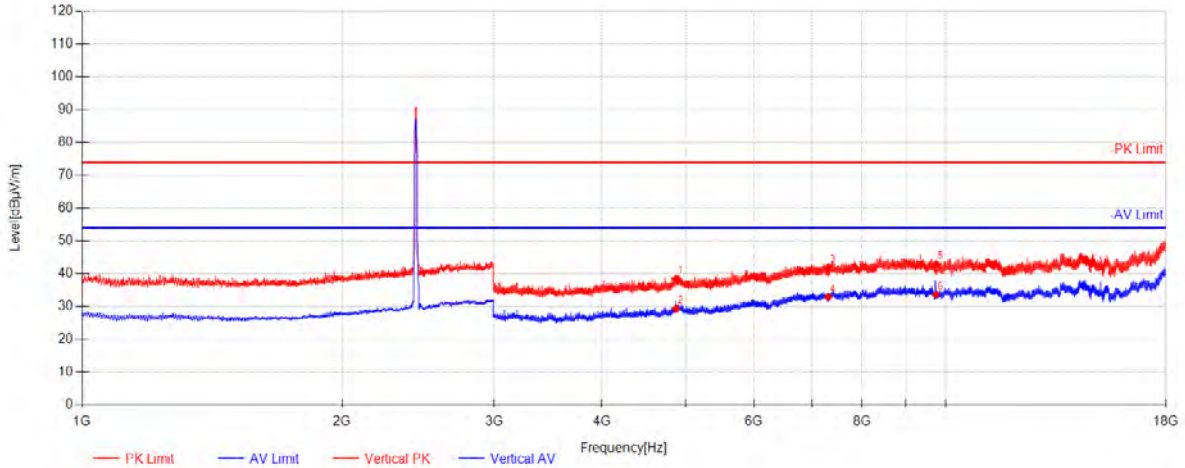
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.64	32.53	-45.53	38.63	74.00	35.37	248	0	Horizontal
2	4874.0000	43.22	32.53	-45.53	30.21	54.00	23.79	175	29	Horizontal
3	7311.0000	47.78	36.54	-43.71	40.61	74.00	33.39	169	0	Horizontal
4	7311.0000	39.61	36.54	-43.71	32.44	54.00	21.56	142	29	Horizontal
5	9748.0000	42.86	38.28	-39.46	41.68	74.00	32.32	184	357	Horizontal
6	9748.0000	34.07	38.28	-39.46	32.89	54.00	21.11	163	138	Horizontal



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802.11b_Channel 06

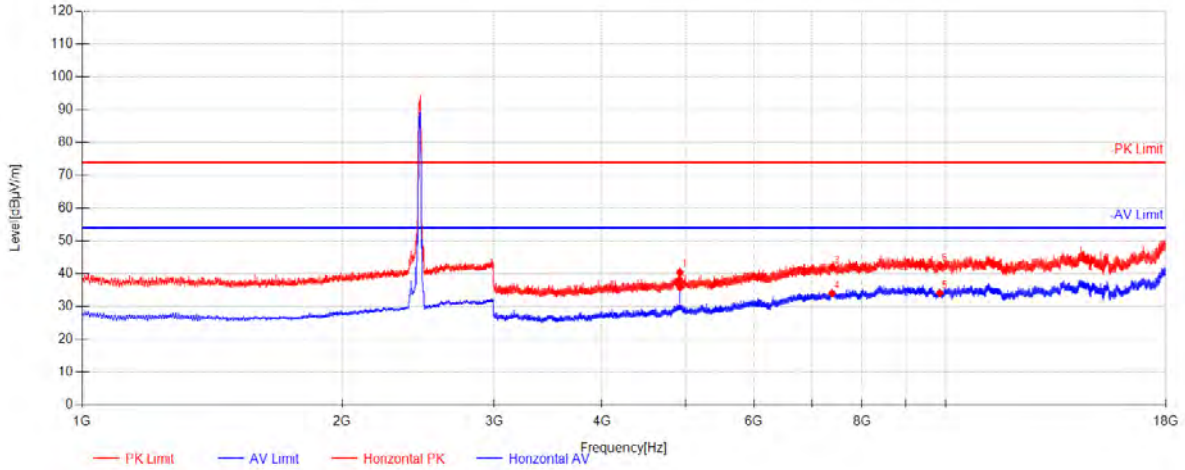


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.44	32.53	-45.53	38.43	74.00	35.57	245	86	Vertical
2	4874.0000	42.40	32.53	-45.53	29.39	54.00	24.61	195	83	Vertical
3	7311.0000	49.13	36.54	-43.71	41.96	74.00	32.04	186	279	Vertical
4	7311.0000	40.13	36.54	-43.71	32.96	54.00	21.04	183	29	Vertical
5	9748.0000	44.17	38.28	-39.46	42.99	74.00	31.01	174	332	Vertical
6	9748.0000	34.84	38.28	-39.46	33.66	54.00	20.34	162	332	Vertical



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802.11b_Channel 11

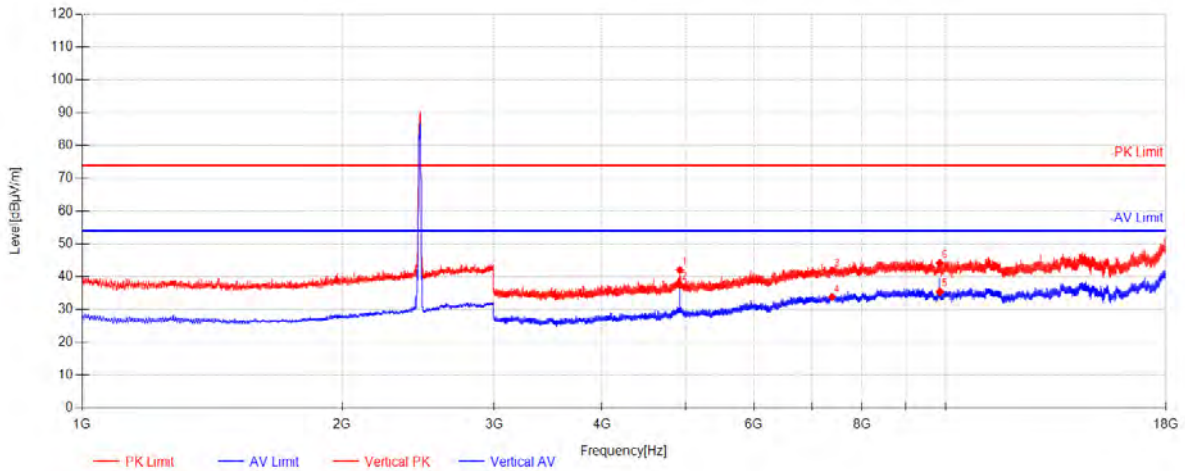


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	53.24	32.67	-45.56	40.35	74.00	33.65	221	256	Horizontal
2	4924.5	48.71	32.67	-45.56	35.82	54.00	18.18	154	8	Horizontal
3	7386.0000	48.81	36.50	-43.46	41.85	74.00	32.15	198	357	Horizontal
4	7386.0000	40.99	36.50	-43.46	34.03	54.00	19.97	175	152	Horizontal
5	9848.0000	35.23	38.28	-39.41	34.11	54.00	19.89	145	136	Horizontal
6	9848.0000	43.63	38.28	-39.41	42.51	74.00	31.49	183	54	Horizontal



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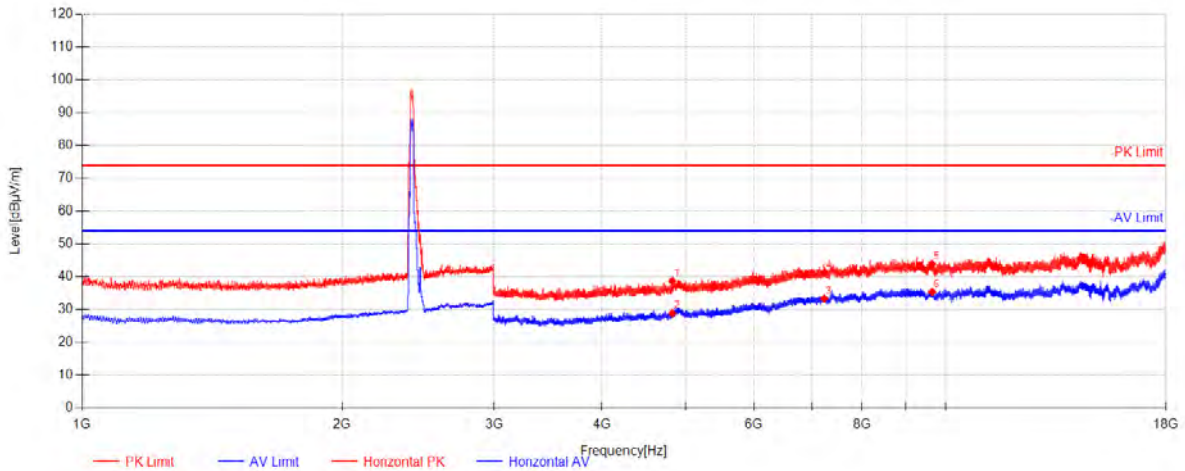
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1	4924.0000	54.93	32.67	-45.56	42.04	74.00	31.96	215	84	Vertical
2	4924.5	50.43	32.67	-45.56	37.54	54.00	16.46	235	111	Vertical
3	7386.0000	48.72	36.50	-43.46	41.76	74.00	32.24	162	305	Vertical
4	7386.0000	40.78	36.50	-43.46	33.82	54.00	20.18	145	1	Vertical
5	9848.0000	36.58	38.28	-39.41	35.46	54.00	18.54	195	332	Vertical
6	9848.0000	45.30	38.28	-39.41	44.18	74.00	29.82	130	332	Vertical



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802.11g_Channel 01



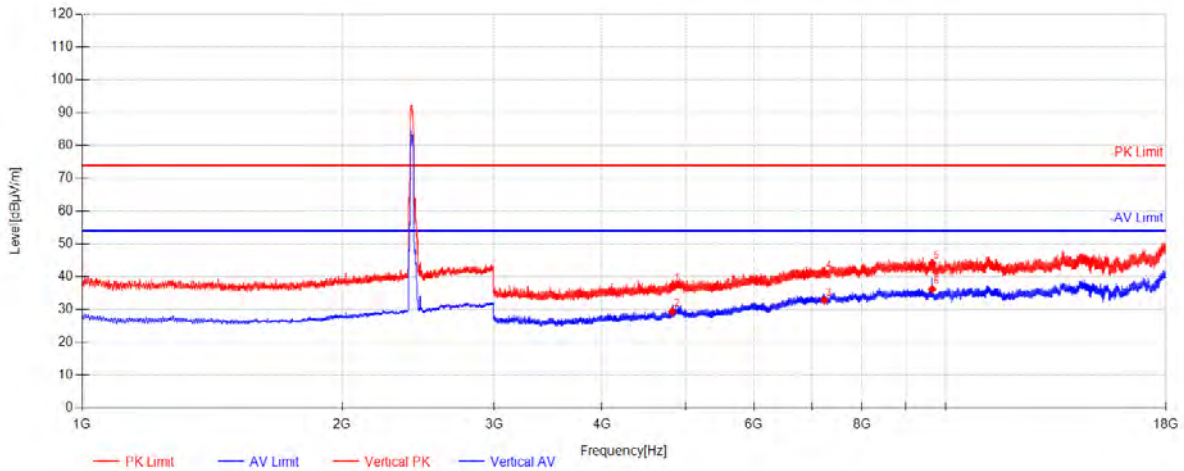
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	51.85	32.39	-45.54	38.70	74.00	35.30	289	0	Horizontal
2	4824.0000	42.04	32.39	-45.54	28.89	54.00	25.11	143	26	Horizontal
3	7236.0000	40.32	36.58	-43.54	33.36	54.00	20.64	236	138	Horizontal
4	7236.0000	48.10	36.58	-43.54	41.14	74.00	32.86	174	306	Horizontal
5	9648.0000	45.02	38.39	-39.56	43.85	74.00	30.15	162	1	Horizontal
6	9648.0000	36.58	38.39	-39.56	35.41	54.00	18.59	216	83	Horizontal



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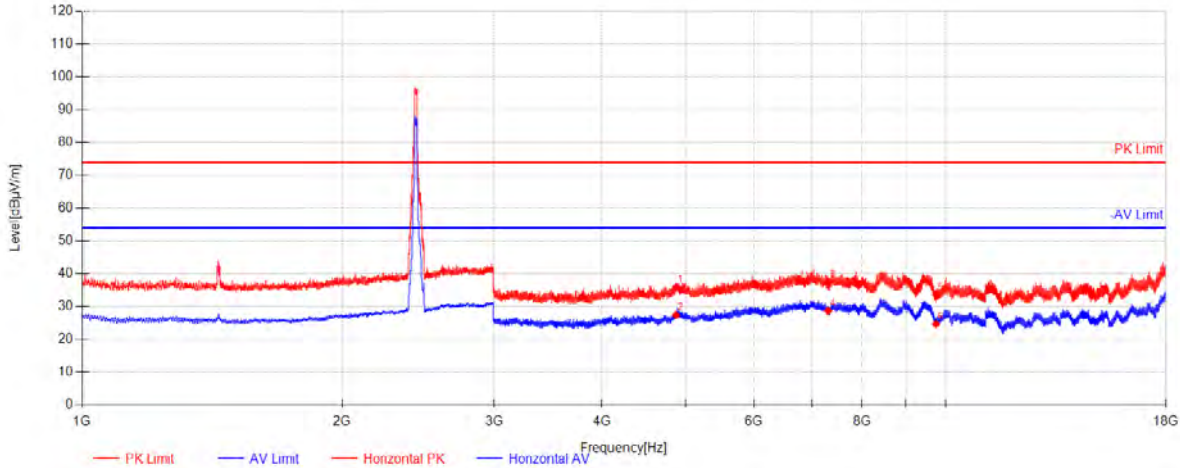


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	50.38	32.39	-45.54	37.23	74.00	36.77	215	0	Vertical
2	4824.0000	42.57	32.39	-45.54	29.42	54.00	24.58	236	82	Vertical
3	7236.0000	39.79	36.58	-43.54	32.83	54.00	21.17	291	306	Vertical
4	7236.0000	48.11	36.58	-43.54	41.15	74.00	32.85	148	55	Vertical
5	9648.0000	45.34	38.39	-39.56	44.17	74.00	29.83	156	332	Vertical
6	9648.0000	37.41	38.39	-39.56	36.24	54.00	17.76	142	306	Vertical



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802.11g_Channel 06



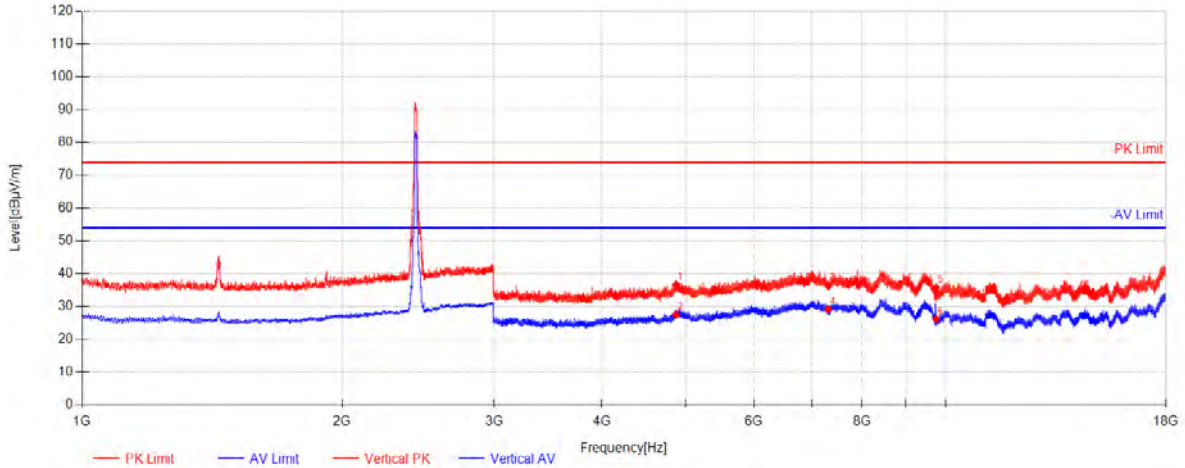
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.85	32.53	-45.53	35.84	74.00	38.16	122	359	Horizontal
2	4874.0000	40.41	32.53	-45.53	27.40	54.00	26.60	185	220	Horizontal
3	7311.0000	44.63	36.54	-43.71	37.46	74.00	36.54	147	249	Horizontal
4	7311.0000	35.87	36.54	-43.71	28.70	54.00	25.30	142	360	Horizontal
5	9748.0000	34.73	38.28	-39.46	33.55	74.00	40.45	196	220	Horizontal
6	9748.0000	25.83	38.28	-39.46	24.65	54.00	29.35	123	109	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	49.63	32.53	-45.53	36.62	74.00	37.38	210	221	Vertical
2	4874.0000	40.53	32.53	-45.53	27.52	54.00	26.48	145	4	Vertical
3	7311.0000	43.54	36.54	-43.71	36.37	74.00	37.63	132	139	Vertical
4	7311.0000	36.37	36.54	-43.71	29.20	54.00	24.80	195	305	Vertical
5	9748.0000	36.92	38.28	-39.46	35.74	74.00	38.26	125	26	Vertical
6	9748.0000	27.38	38.28	-39.46	26.20	54.00	27.80	126	26	Vertical

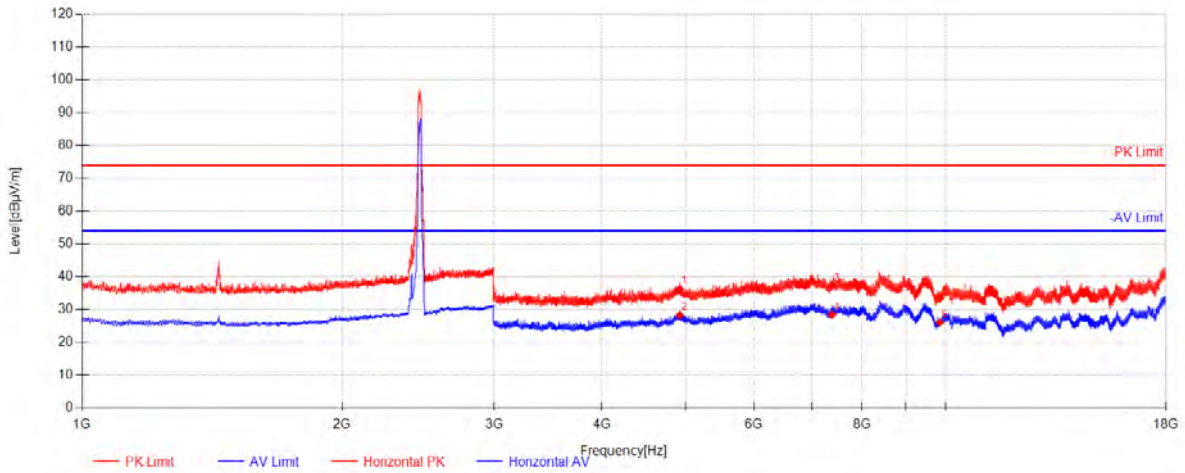


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802.11g_Channel 11

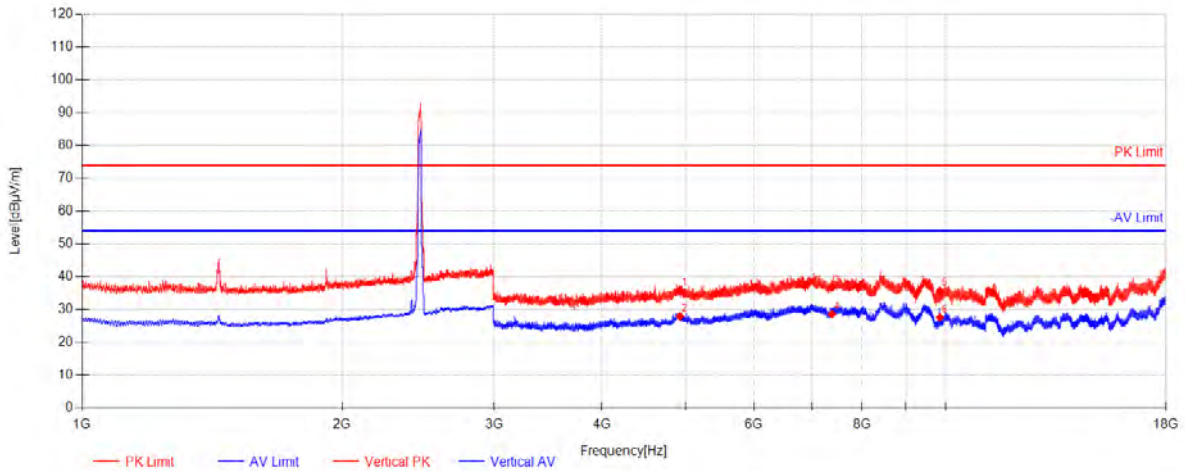


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.12	32.67	-45.56	36.23	74.00	37.77	245	360	Horizontal
2	4924.0000	41.17	32.67	-45.56	28.28	54.00	25.72	185	84	Horizontal
3	7386.0000	44.17	36.50	-43.46	37.21	74.00	36.79	163	192	Horizontal
4	7386.0000	35.39	36.50	-43.46	28.43	54.00	25.57	145	359	Horizontal
5	9848.0000	34.47	38.28	-39.41	33.35	74.00	40.65	251	192	Horizontal
6	9848.0000	27.17	38.28	-39.41	26.05	54.00	27.95	169	192	Horizontal



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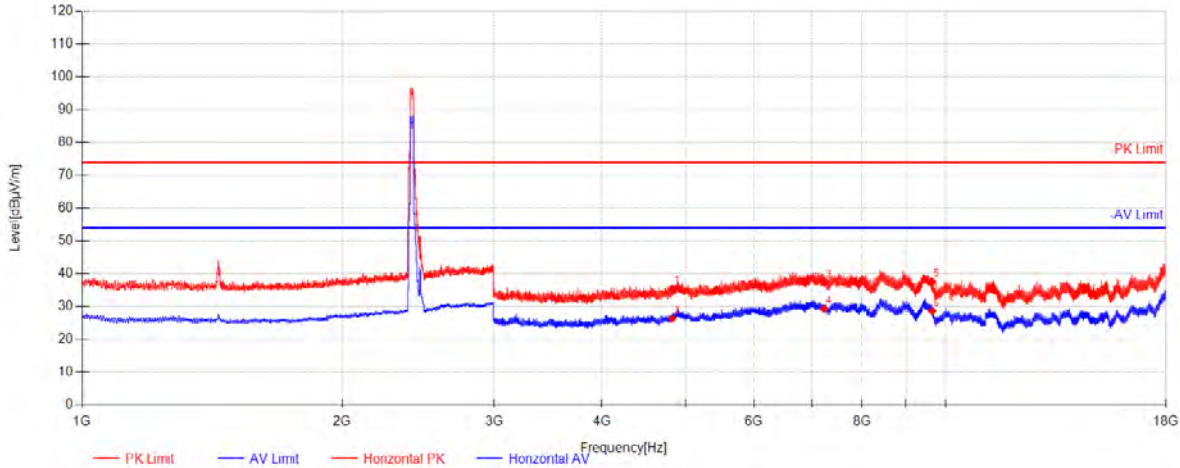


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.80	32.67	-45.56	35.91	74.00	38.09	230	302	Vertical
2	4924.0000	40.87	32.67	-45.56	27.98	54.00	26.02	255	192	Vertical
3	7386.0000	43.67	36.50	-43.46	36.71	74.00	37.29	125	3	Vertical
4	7386.0000	35.59	36.50	-43.46	28.63	54.00	25.37	149	26	Vertical
5	9848.0000	36.86	38.28	-39.41	35.74	74.00	38.26	126	26	Vertical
6	9848.0000	28.76	38.28	-39.41	27.64	54.00	26.36	166	360	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	48.65	32.39	-45.54	35.50	74.00	38.50	214	359	Horizontal
2	4824.0000	39.46	32.39	-45.54	26.31	54.00	27.69	125	334	Horizontal
3	7236.0000	44.35	36.58	-43.54	37.39	74.00	36.61	156	222	Horizontal
4	7236.0000	36.30	36.58	-43.54	29.34	54.00	24.66	196	55	Horizontal
5	9648.0000	38.72	38.39	-39.56	37.55	74.00	36.45	132	84	Horizontal
6	9648.0000	29.82	38.39	-39.56	28.65	54.00	25.35	145	353	Horizontal

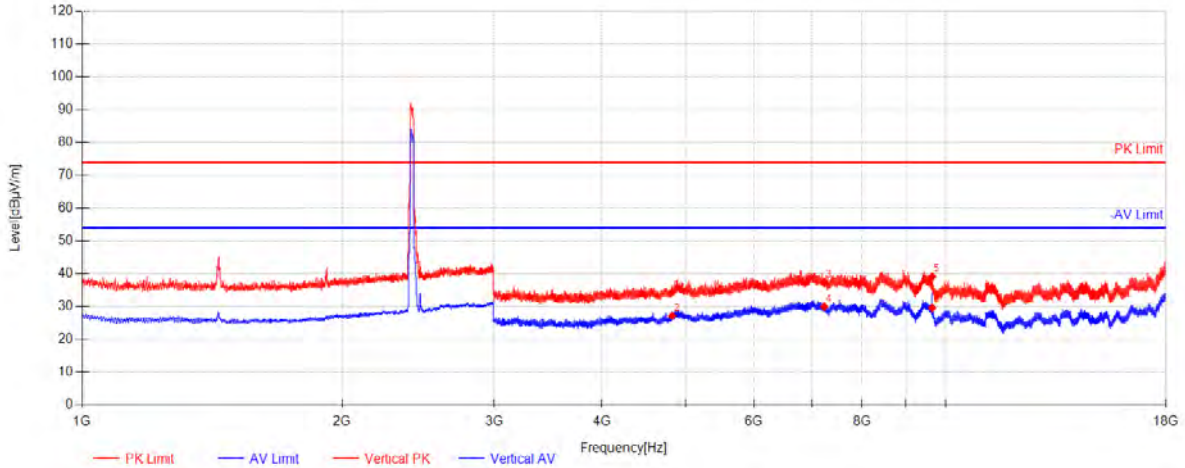


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802.11n20_Channel 01



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	47.50	32.39	-45.54	34.35	74.00	39.65	222	360	Vertical
2	4824.0000	40.35	32.39	-45.54	27.20	54.00	26.80	145	139	Vertical
3	7236.0000	44.25	36.58	-43.54	37.29	74.00	36.71	178	359	Vertical
4	7236.0000	36.89	36.58	-43.54	29.93	54.00	24.07	186	359	Vertical
5	9648.0000	40.30	38.39	-39.56	39.13	74.00	34.87	198	26	Vertical
6	9648.0000	30.80	38.39	-39.56	29.63	54.00	24.37	143	360	Vertical

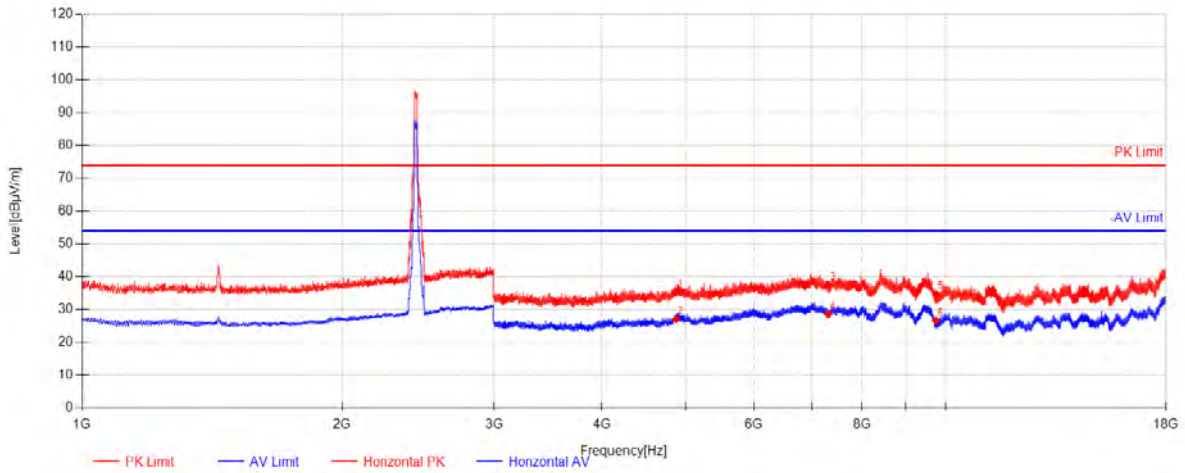


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802.11n20_Channel 06



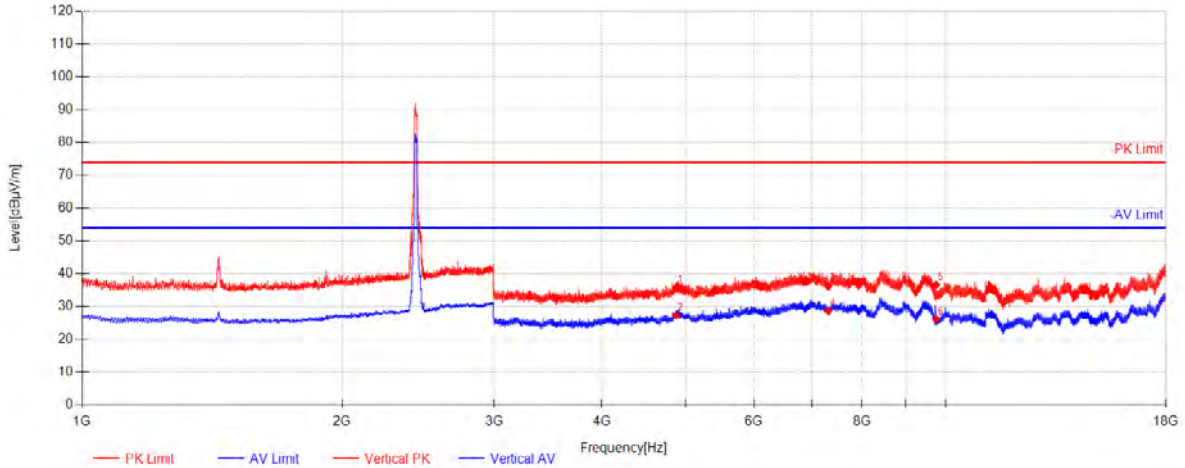
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.32	32.53	-45.53	35.31	74.00	38.69	217	360	Horizontal
2	4874.0000	40.03	32.53	-45.53	27.02	54.00	26.98	129	110	Horizontal
3	7311.0000	44.75	36.54	-43.71	37.58	74.00	36.42	154	3	Horizontal
4	7311.0000	35.81	36.54	-43.71	28.64	54.00	25.36	132	352	Horizontal
5	9748.0000	35.92	38.28	-39.46	34.74	74.00	39.26	162	139	Horizontal
6	9748.0000	27.82	38.28	-39.46	26.64	54.00	27.36	158	110	Horizontal



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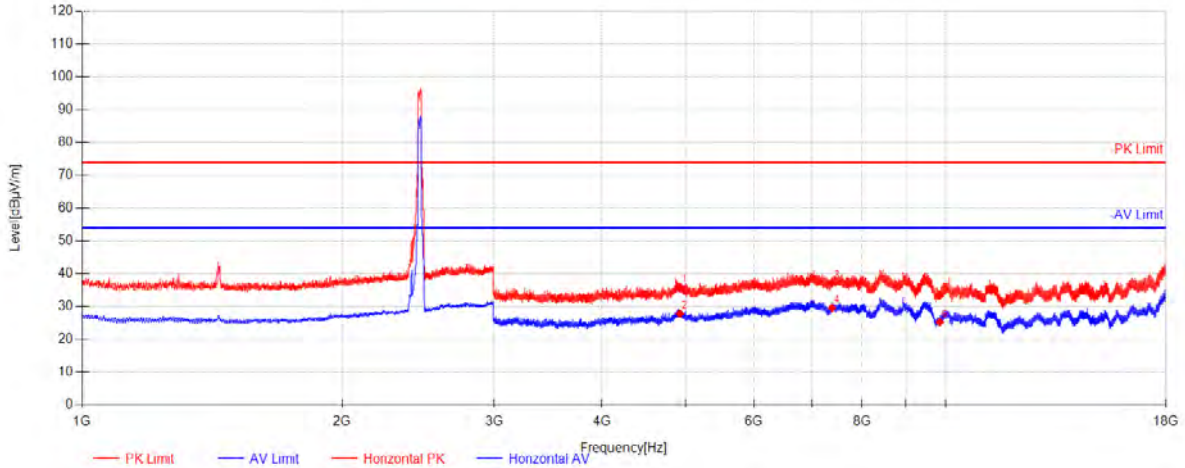


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.89	32.53	-45.53	35.88	74.00	38.12	210	166	Vertical
2	4874.0000	40.29	32.53	-45.53	27.28	54.00	26.72	195	140	Vertical
3	7311.0000	43.41	36.54	-43.71	36.24	74.00	37.76	122	54	Vertical
4	7311.0000	35.89	36.54	-43.71	28.72	54.00	25.28	175	4	Vertical
5	9748.0000	37.80	38.28	-39.46	36.62	74.00	37.38	148	4	Vertical
6	9748.0000	27.32	38.28	-39.46	26.14	54.00	27.86	143	359	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	218	3	Horizontal
2	4924.0000	40.75	32.67	-45.56	27.86	54.00	26.14	236	359	Horizontal
3	7386.0000	44.14	36.50	-43.46	37.18	74.00	36.82	145	331	Horizontal
4	7386.0000	36.55	36.50	-43.46	29.59	54.00	24.41	250	192	Horizontal
5	9848.0000	34.45	38.28	-39.41	33.33	74.00	40.67	122	331	Horizontal
6	9848.0000	26.34	38.28	-39.41	25.22	54.00	28.78	192	331	Horizontal

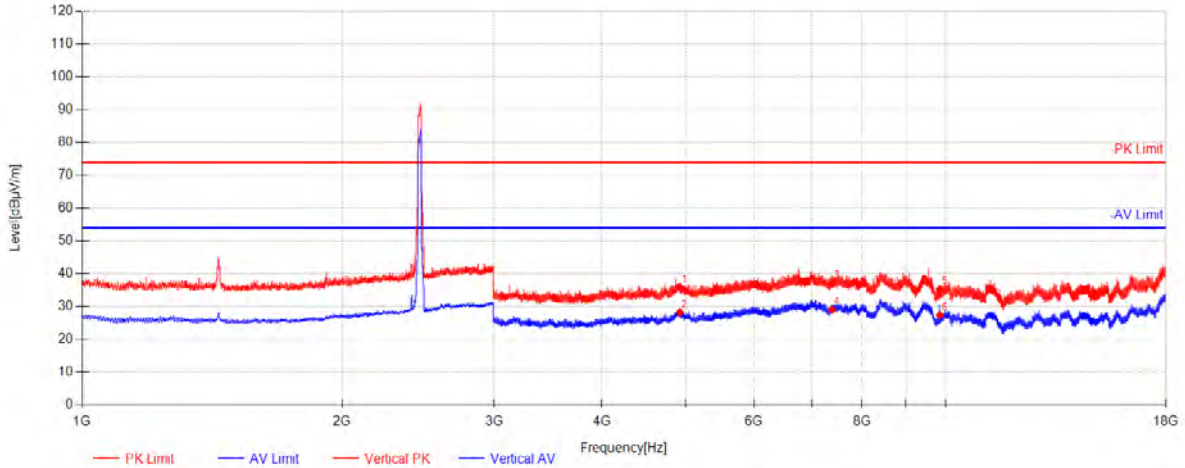


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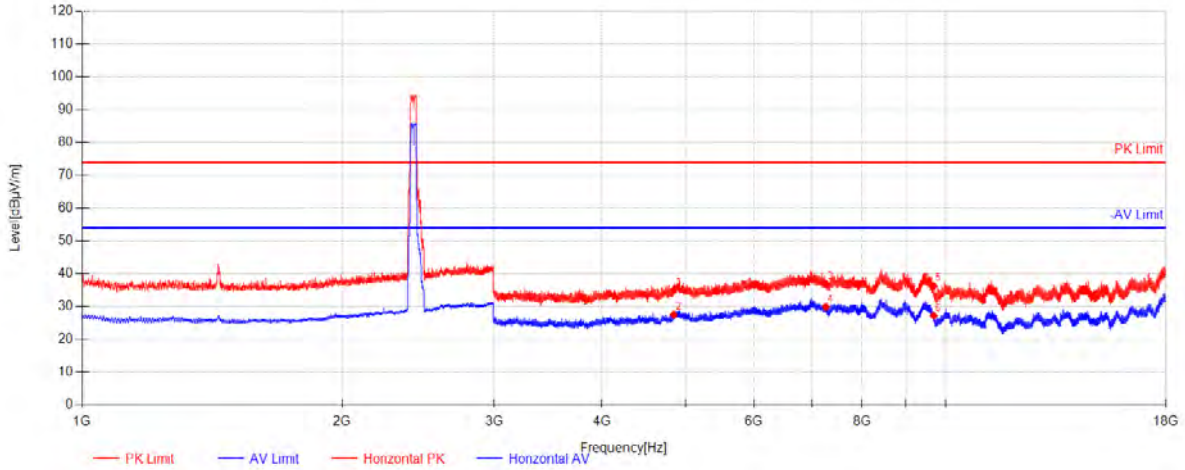


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	48.76	32.67	-45.56	35.87	74.00	38.13	231	55	Vertical
2	4924.0000	41.12	32.67	-45.56	28.23	54.00	25.77	175	4	Vertical
3	7386.0000	43.99	36.50	-43.46	37.03	74.00	36.97	140	166	Vertical
4	7386.0000	36.03	36.50	-43.46	29.07	54.00	24.93	192	192	Vertical
5	9848.0000	36.48	38.28	-39.41	35.36	74.00	38.64	302	360	Vertical
6	9848.0000	28.54	38.28	-39.41	27.42	54.00	26.58	111	28	Vertical



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802.11n40_Channel 03



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0000	48.21	32.44	-45.54	35.12	74.00	38.88	245	111	Horizontal
2	4844.0000	40.61	32.44	-45.54	27.52	54.00	26.48	231	54	Horizontal
3	7266.0000	43.91	36.56	-43.64	36.84	74.00	37.16	185	222	Horizontal
4	7266.0000	36.95	36.56	-43.64	29.88	54.00	24.12	122	280	Horizontal
5	9688.0000	37.38	38.34	-39.47	36.26	74.00	37.74	146	140	Horizontal
6	9688.0000	28.35	38.34	-39.47	27.23	54.00	26.77	190	140	Horizontal

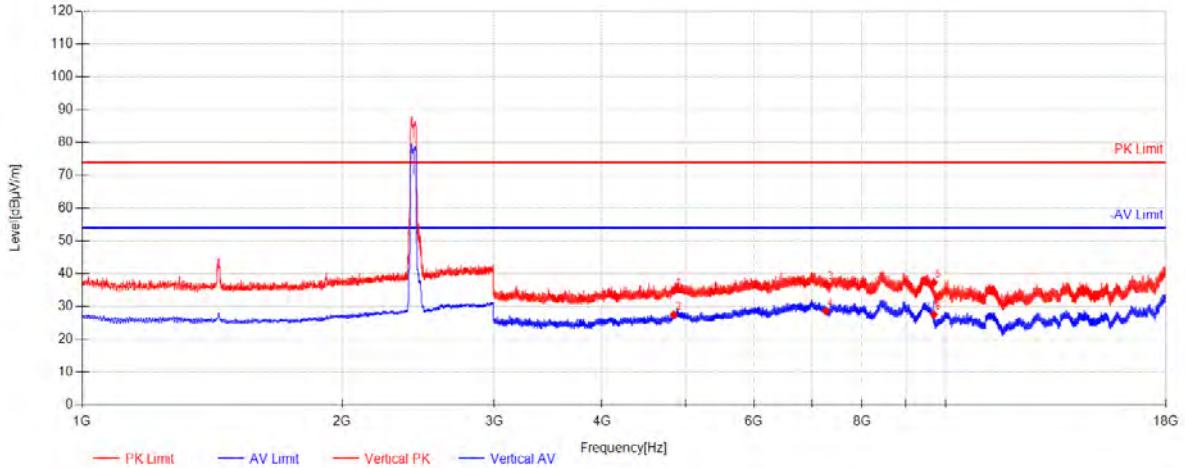


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802.11n40_Channel 03



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0000	47.97	32.44	-45.54	34.88	74.00	39.12	233	312	Vertical
2	4844.0000	40.60	32.44	-45.54	27.51	54.00	26.49	136	4	Vertical
3	7266.0000	43.93	36.56	-43.64	36.86	74.00	37.14	215	255	Vertical
4	7266.0000	35.72	36.56	-43.64	28.65	54.00	25.35	261	29	Vertical
5	9688.0000	38.43	38.34	-39.47	37.31	74.00	36.69	147	360	Vertical
6	9688.0000	28.73	38.34	-39.47	27.61	54.00	26.39	158	4	Vertical

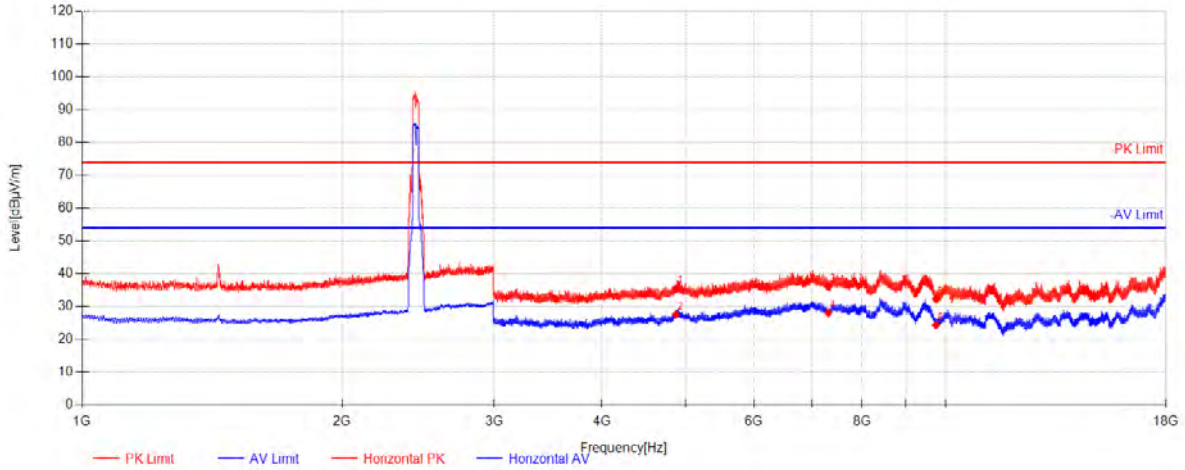


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802.11n40_Channel 06



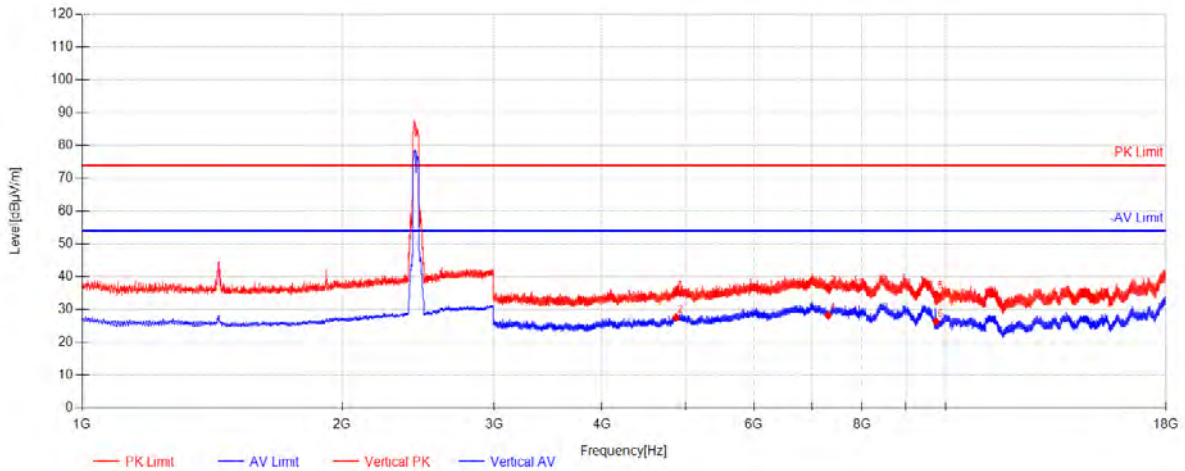
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	48.54	32.53	-45.53	35.53	74.00	38.47	248	353	Horizontal
2	4874.0000	40.60	32.53	-45.53	27.59	54.00	26.41	191	334	Horizontal
3	7311.0000	43.26	36.54	-43.71	36.09	74.00	37.91	156	82	Horizontal
4	7311.0000	35.31	36.54	-43.71	28.14	54.00	25.86	174	110	Horizontal
5	9748.0000	33.41	38.28	-39.46	32.23	74.00	41.77	129	249	Horizontal
6	9748.0000	25.50	38.28	-39.46	24.32	54.00	29.68	122	306	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	48.12	32.53	-45.53	35.11	74.00	38.89	255	360	Vertical
2	4874.0000	40.58	32.53	-45.53	27.57	54.00	26.43	266	141	Vertical
3	7311.0000	43.77	36.54	-43.71	36.60	74.00	37.40	142	196	Vertical
4	7311.0000	35.46	36.54	-43.71	28.29	54.00	25.71	291	196	Vertical
5	9748.0000	35.87	38.28	-39.46	34.69	74.00	39.31	133	360	Vertical
6	9748.0000	27.52	38.28	-39.46	26.34	54.00	27.66	140	354	Vertical

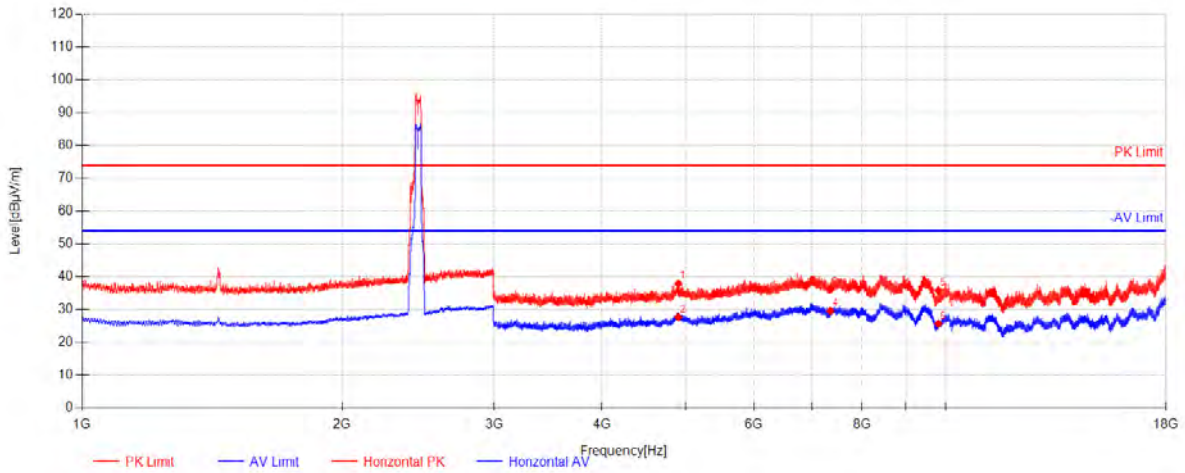


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802.11n40_Channel 09



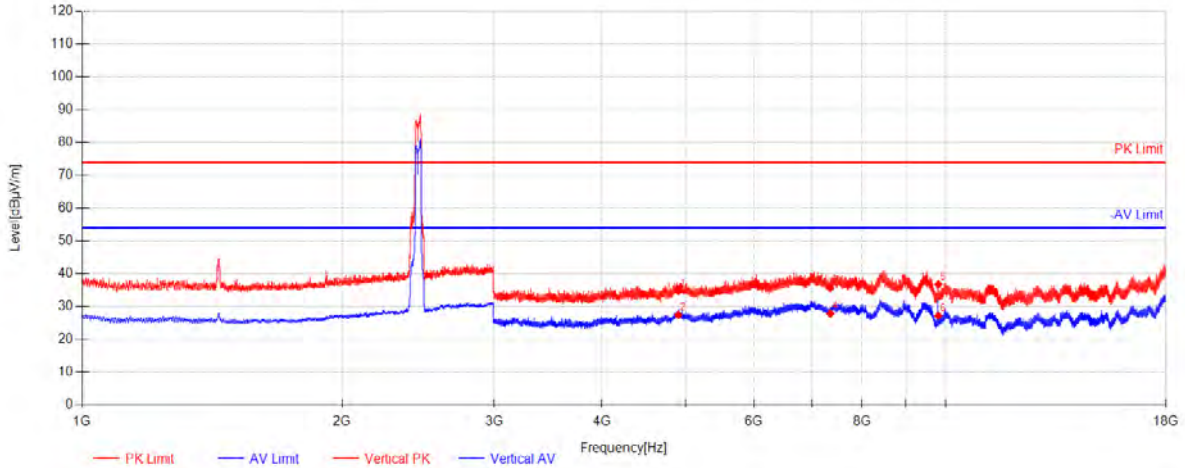
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	50.78	32.61	-45.53	37.86	74.00	36.14	254	354	Horizontal
2	4904.0000	40.64	32.61	-45.53	27.72	54.00	26.28	128	4	Horizontal
3	7356.0000	43.20	36.51	-43.56	36.15	74.00	37.85	126	281	Horizontal
4	7356.0000	36.65	36.51	-43.56	29.60	54.00	24.40	162	170	Horizontal
5	9808.0000	37.08	38.23	-39.47	35.84	74.00	38.16	135	360	Horizontal
6	9808.0000	26.88	38.23	-39.47	25.64	54.00	28.36	196	310	Horizontal



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802.11n40_Channel 09

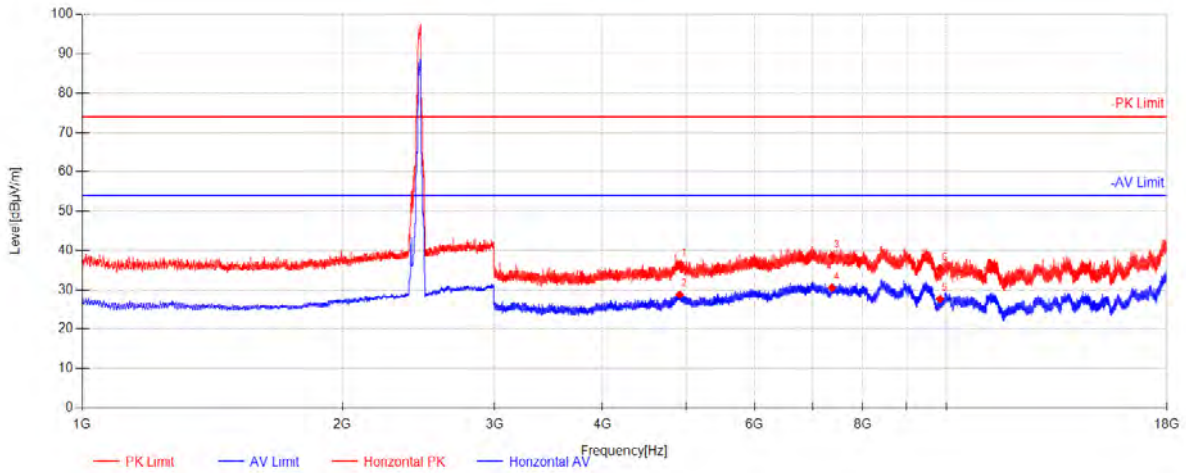


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.0000	47.59	32.61	-45.53	34.67	74.00	39.33	255	28	Vertical
2	4904.0000	40.38	32.61	-45.53	27.46	54.00	26.54	162	253	Vertical
3	7356.0000	42.78	36.51	-43.56	35.73	74.00	38.27	146	196	Vertical
4	7356.0000	34.94	36.51	-43.56	27.89	54.00	26.11	111	4	Vertical
5	9808.0000	37.96	38.23	-39.47	36.72	74.00	37.28	129	360	Vertical
6	9808.0000	28.46	38.23	-39.47	27.22	54.00	26.78	187	359	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	4914.0000	49.38	32.64	-45.55	36.47	74.00	37.53	214	360	Horizontal
2	4914.0000	41.68	32.64	-45.55	28.77	54.00	25.23	145	167	Horizontal
3	7371.0000	45.68	36.51	-43.51	38.68	74.00	35.32	156	304	Horizontal
4	7371.0000	37.53	36.51	-43.51	30.53	54.00	23.47	169	331	Horizontal
5	9828.0000	28.84	38.26	-39.44	27.66	54.00	26.34	152	111	Horizontal
6	9828.0000	36.69	38.26	-39.44	35.51	74.00	38.49	132	194	Horizontal

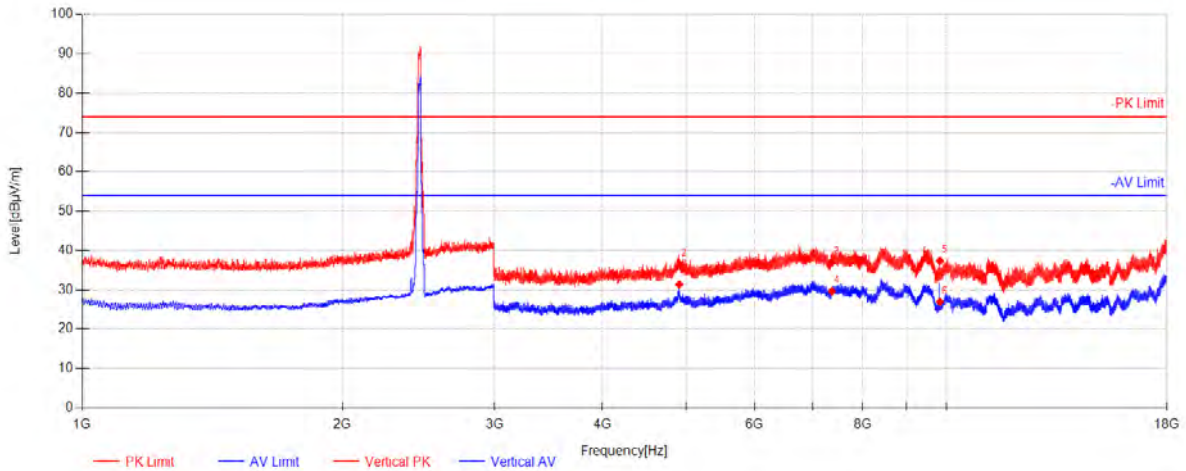


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802.11g_Channel 10

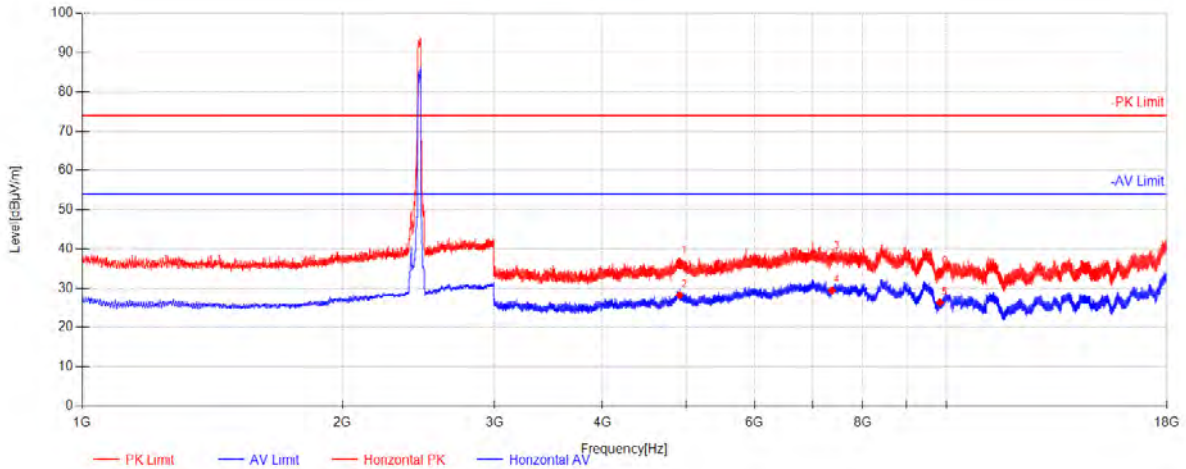


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4908.5	44.29	32.62	-45.54	31.37	54.00	22.63	214	360	Vertical
2	4914.0000	49.38	32.64	-45.55	36.47	74.00	37.53	125	81	Vertical
3	7371.0000	44.03	36.51	-43.51	37.03	74.00	36.97	145	138	Vertical
4	7371.0000	36.69	36.51	-43.51	29.69	54.00	24.31	186	350	Vertical
5	9828.0000	38.56	38.26	-39.44	37.38	74.00	36.62	192	29	Vertical
6	9828.0000	28.12	38.26	-39.44	26.94	54.00	27.06	177	29	Vertical



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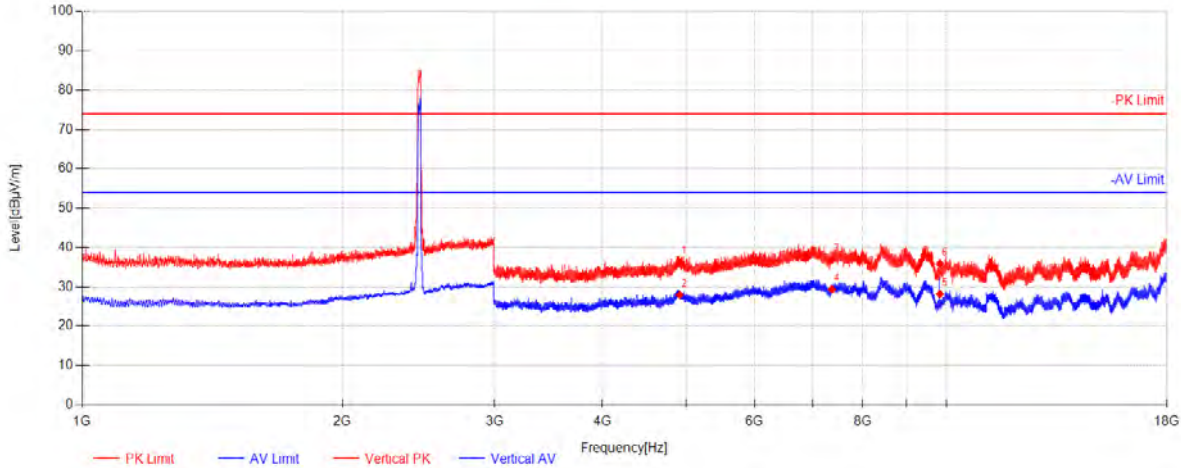


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4914.0000	49.56	32.64	-45.55	36.65	74.00	37.35	142	4	Horizontal
2	4914.0000	41.14	32.64	-45.55	28.23	54.00	25.77	192	138	Horizontal
3	7371.0000	45.02	36.51	-43.51	38.02	74.00	35.98	132	352	Horizontal
4	7371.0000	36.46	36.51	-43.51	29.46	54.00	24.54	146	111	Horizontal
5	9828.0000	27.50	38.26	-39.44	26.32	54.00	27.68	155	249	Horizontal
6	9828.0000	35.34	38.26	-39.44	34.16	74.00	39.84	125	111	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	4914.0000	49.21	32.64	-45.55	36.30	74.00	37.70	251	165	Vertical
2	4914.0000	40.88	32.64	-45.55	27.97	54.00	26.03	162	274	Vertical
3	7371.0000	43.91	36.51	-43.51	36.91	74.00	37.09	142	360	Vertical
4	7371.0000	36.39	36.51	-43.51	29.39	54.00	24.61	145	165	Vertical
5	9828.0000	29.36	38.26	-39.44	28.18	54.00	25.82	189	26	Vertical
6	9828.0000	37.09	38.26	-39.44	35.91	74.00	38.09	133	26	Vertical

Remark:

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

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

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

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

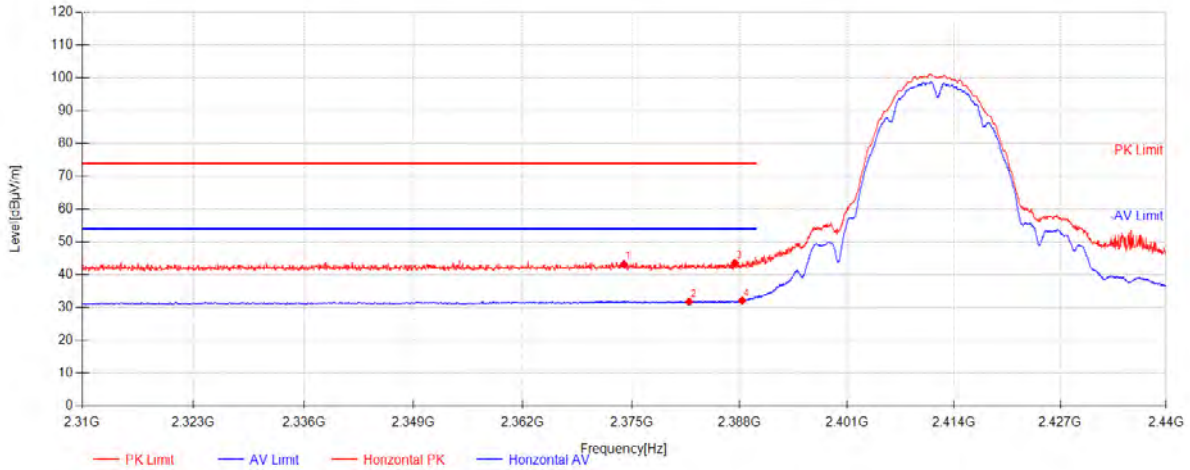
$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

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



Restricted bands around fundamental frequency

802.11b_Channel 01



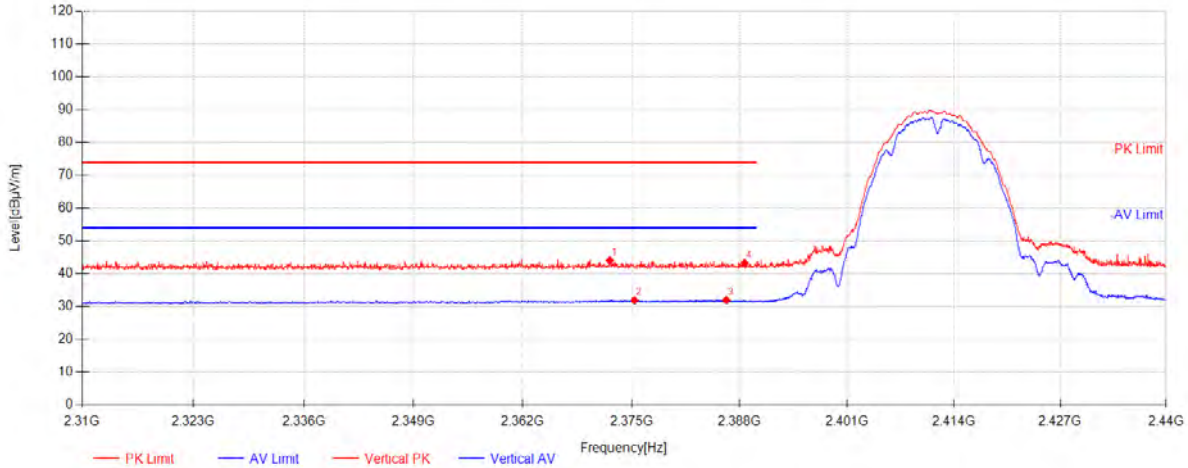
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.09	39.38	27.43	-23.57	43.23	74.00	30.77	256	200	Horizontal
2	2381.9333	27.86	27.43	-23.57	31.72	54.00	22.28	256	200	Horizontal
3	2387.4367	39.76	27.43	-23.57	43.62	74.00	30.38	256	200	Horizontal
4	2388.3033	28.24	27.43	-23.57	32.10	54.00	21.90	256	200	Horizontal



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802.11b_Channel 01



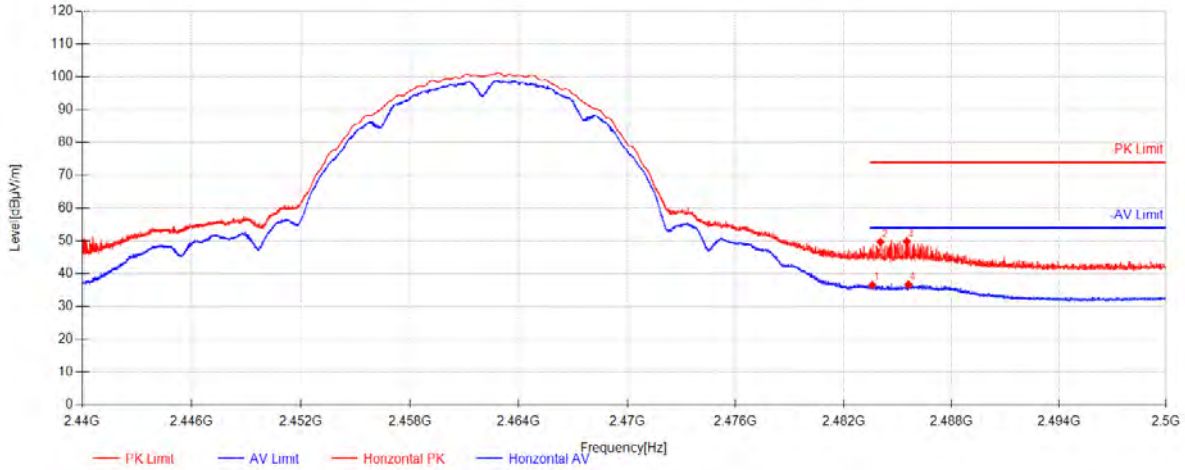
Final Data List										
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1	2372.4	40.22	27.43	-23.57	44.07	74.00	29.93	258	307	Vertical
2	2375.3467	28.01	27.43	-23.57	31.87	54.00	22.13	258	307	Vertical
3	2386.3967	28.08	27.43	-23.57	31.94	54.00	22.06	258	307	Vertical
4	2388.6067	39.41	27.43	-23.57	43.27	74.00	30.73	258	307	Vertical



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802.11b_Channel 11

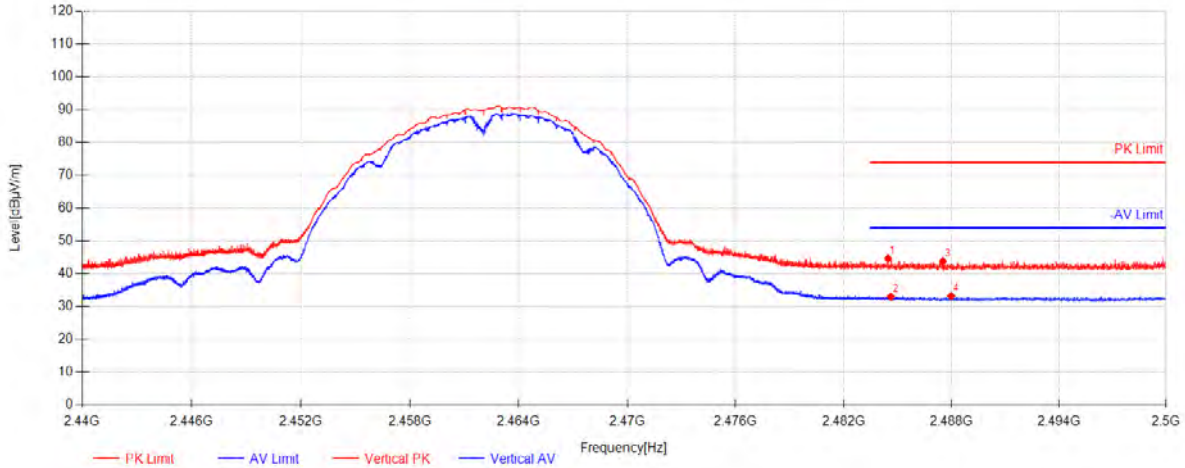


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5975	32.36	27.72	-23.54	36.53	54.00	17.47	211	335	Horizontal
2	2484.0475	45.54	27.72	-23.54	49.71	74.00	24.29	211	335	Horizontal
3	2485.5175	45.67	27.72	-23.54	49.85	74.00	24.15	211	335	Horizontal
4	2485.6075	32.54	27.72	-23.54	36.72	54.00	17.28	211	335	Horizontal



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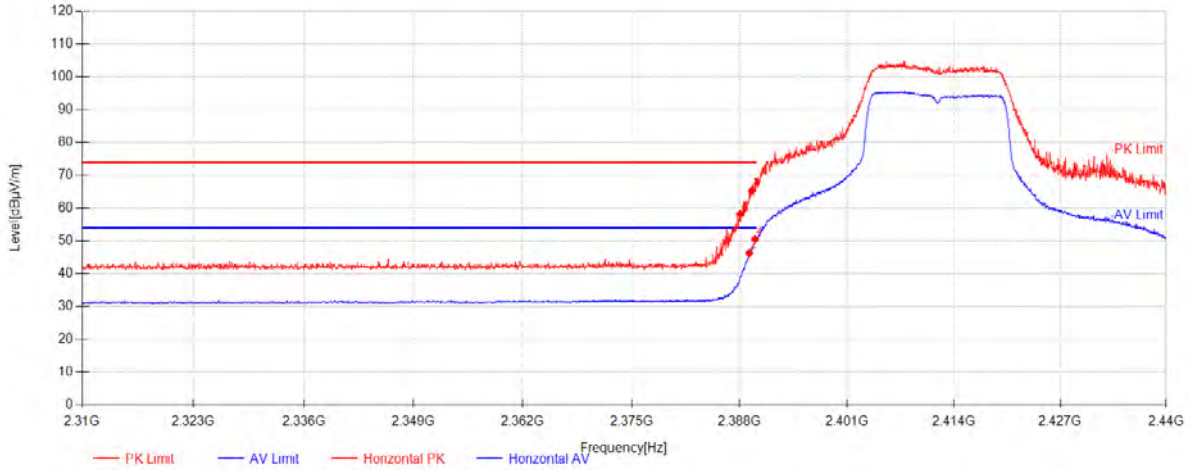
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.475	40.49	27.72	-23.54	44.66	74.00	29.34	230	112	Vertical
2	2484.625	28.81	27.72	-23.54	32.98	54.00	21.02	230	112	Vertical
3	2487.5275	39.63	27.73	-23.54	43.82	74.00	30.18	230	112	Vertical
4	2487.9925	29.00	27.73	-23.54	33.19	54.00	20.81	230	112	Vertical



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802.11g_Channel 01



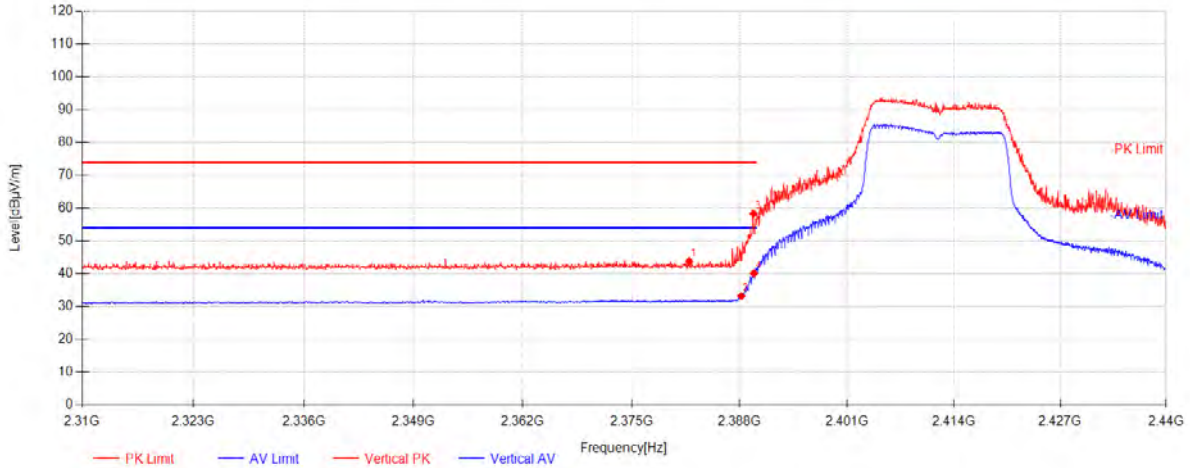
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.0867	54.35	27.43	-23.57	58.21	74.00	15.79	251	356	Horizontal
2	2389.17	42.39	27.43	-23.57	46.25	54.00	7.75	251	356	Horizontal
3	2389.4733	61.49	27.43	-23.57	65.35	74.00	8.65	251	356	Horizontal
4	2389.8633	46.73	27.43	-23.57	50.59	54.00	3.41	251	356	Horizontal



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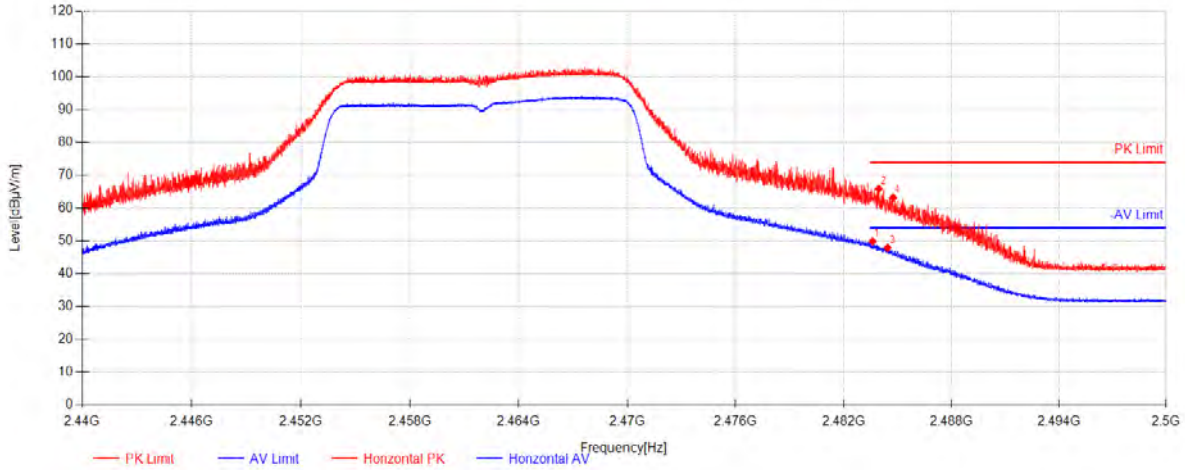


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.9333	39.96	27.43	-23.57	43.82	74.00	30.18	236	32	Vertical
2	2388.2167	29.32	27.43	-23.57	33.18	54.00	20.82	236	32	Vertical
3	2389.69	54.48	27.43	-23.57	58.34	74.00	15.66	236	32	Vertical
4	2389.7333	36.24	27.43	-23.57	40.10	54.00	13.90	236	32	Vertical



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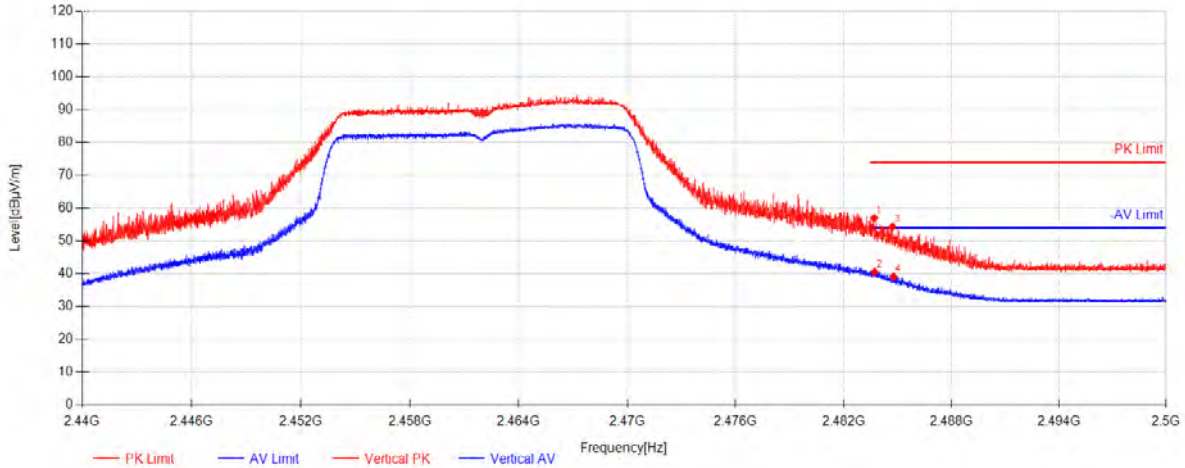


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6125	45.70	27.72	-23.54	49.87	54.00	4.13	256	4	Horizontal
2	2483.9575	61.76	27.72	-23.54	65.93	74.00	8.07	256	4	Horizontal
3	2484.445	43.67	27.72	-23.54	47.84	54.00	6.16	256	4	Horizontal
4	2484.7525	58.99	27.72	-23.54	63.17	74.00	10.83	256	4	Horizontal



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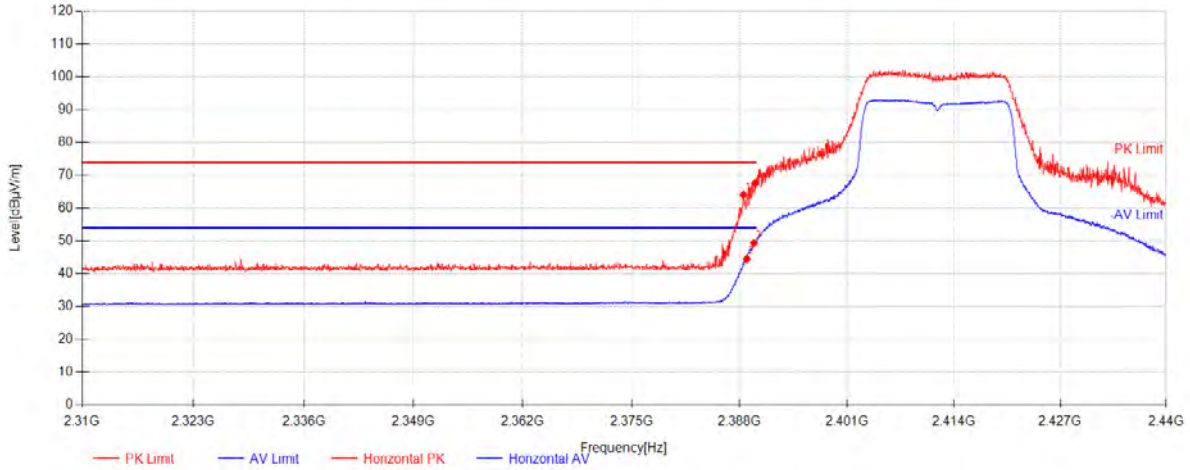


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7025	52.81	27.72	-23.54	56.98	74.00	17.02	128	120	Vertical
2	2483.725	36.33	27.72	-23.54	40.50	54.00	13.50	128	120	Vertical
3	2484.715	50.15	27.72	-23.54	54.32	74.00	19.68	128	120	Vertical
4	2484.775	34.90	27.72	-23.54	39.08	54.00	14.92	128	120	Vertical



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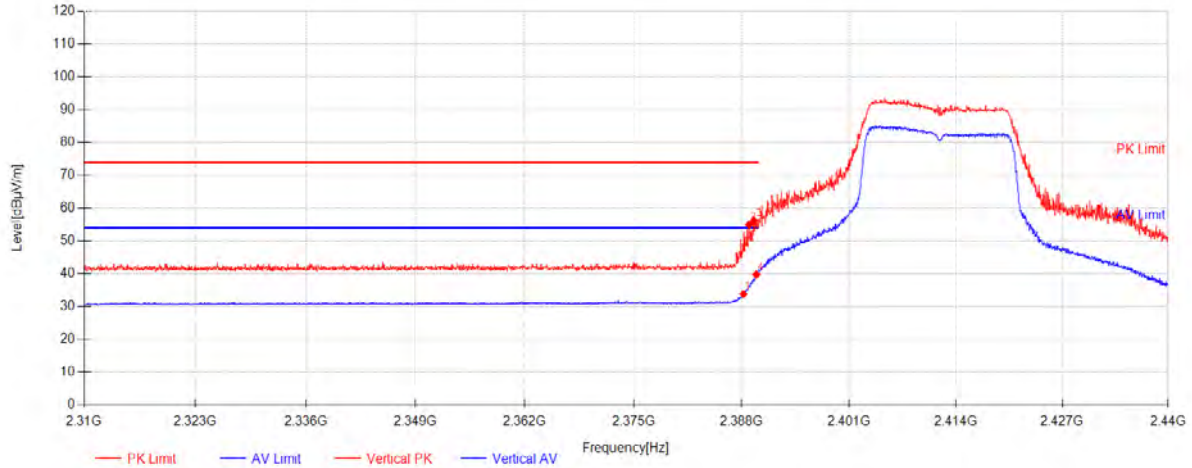


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.4767	60.18	27.43	-23.57	64.04	74.00	9.96	241	338	Horizontal
2	2388.8667	40.69	27.43	-23.57	44.55	54.00	9.45	241	338	Horizontal
3	2389.7333	45.49	27.43	-23.57	49.35	54.00	4.65	241	338	Horizontal
4	2389.8633	63.77	27.43	-23.57	67.63	74.00	6.37	241	338	Horizontal



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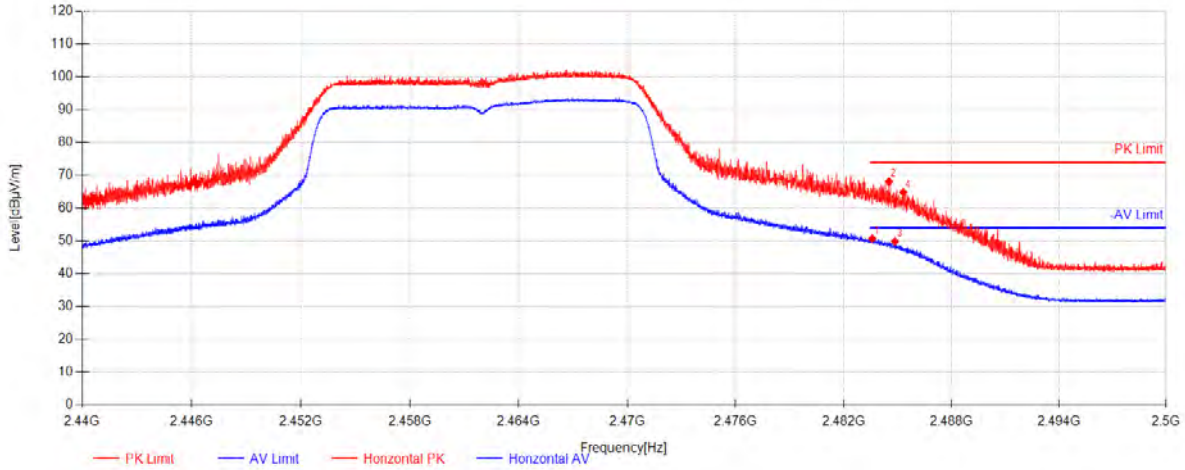


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.2167	29.93	27.43	-23.57	33.79	54.00	20.21	289	115	Vertical
2	2388.91	51.10	27.43	-23.57	54.96	74.00	19.04	289	115	Vertical
3	2389.5167	52.19	27.43	-23.57	56.05	74.00	17.95	289	115	Vertical
4	2389.7767	35.86	27.43	-23.57	39.72	54.00	14.28	289	115	Vertical



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802.11n20_Channel 11



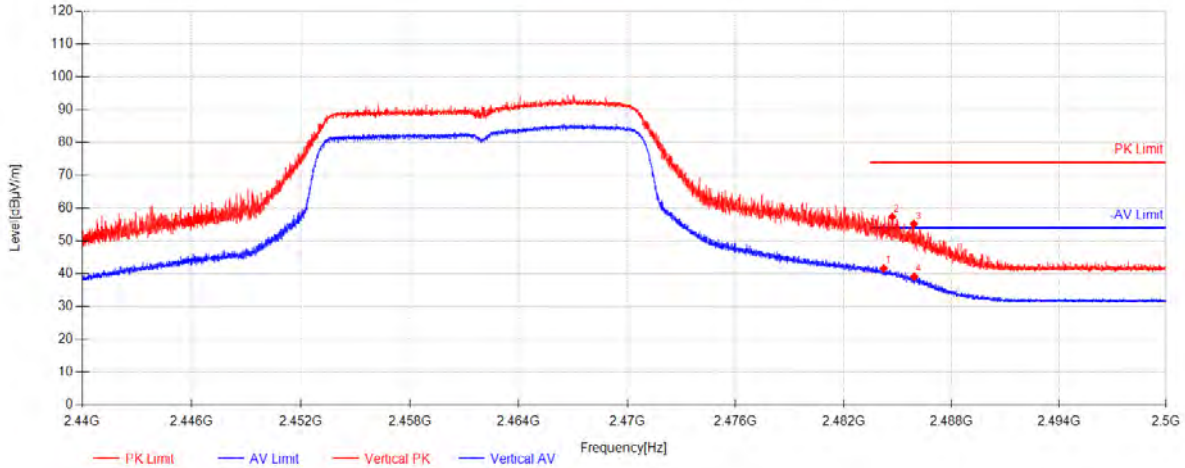
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.59	46.56	27.72	-23.54	50.73	54.00	3.27	266	18	Horizontal
2	2484.5275	63.95	27.72	-23.54	68.12	74.00	5.88	266	18	Horizontal
3	2484.8575	45.68	27.72	-23.54	49.86	54.00	4.14	266	18	Horizontal
4	2485.3225	60.66	27.72	-23.54	64.84	74.00	9.16	266	18	Horizontal



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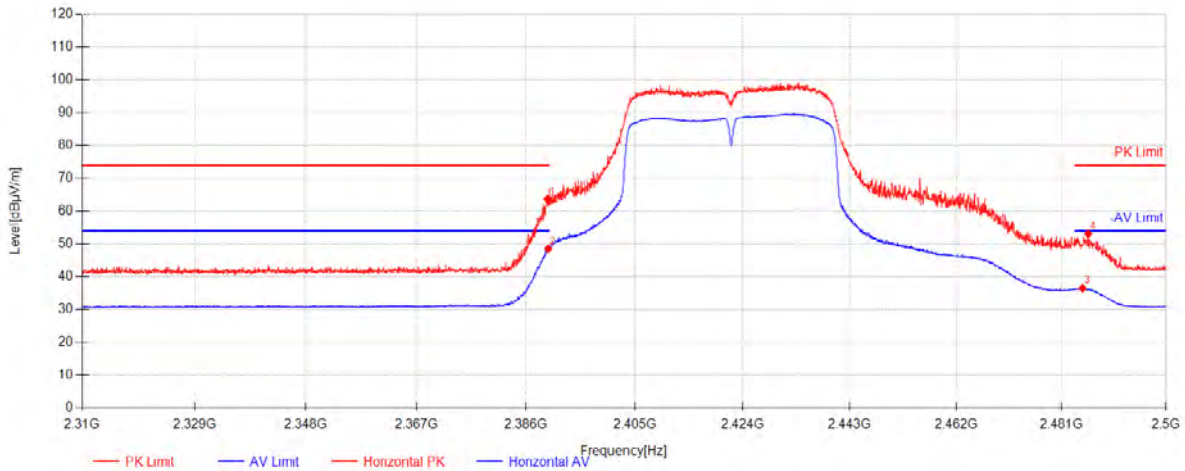


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.235	37.47	27.72	-23.54	41.64	54.00	12.36	289	107	Vertical
2	2484.7075	53.17	27.72	-23.54	57.34	74.00	16.66	289	107	Vertical
3	2485.9075	51.00	27.72	-23.54	55.18	74.00	18.82	289	107	Vertical
4	2485.93	34.91	27.72	-23.54	39.09	54.00	14.91	289	107	Vertical



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802.11n40_Channel 03



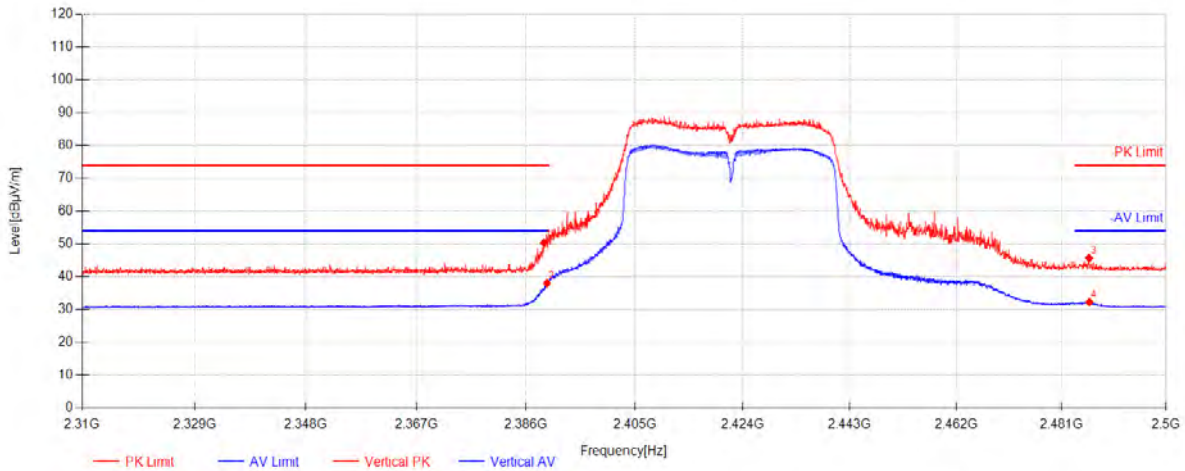
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7333	59.79	27.43	-23.57	63.65	74.00	10.35	213	6	Horizontal
2	2389.8633	44.66	27.43	-23.57	48.52	54.00	5.48	213	6	Horizontal
3	2484.82	32.32	27.72	-23.54	36.50	54.00	17.50	213	6	Horizontal
4	2485.84	48.92	27.72	-23.54	53.10	74.00	20.90	213	6	Horizontal



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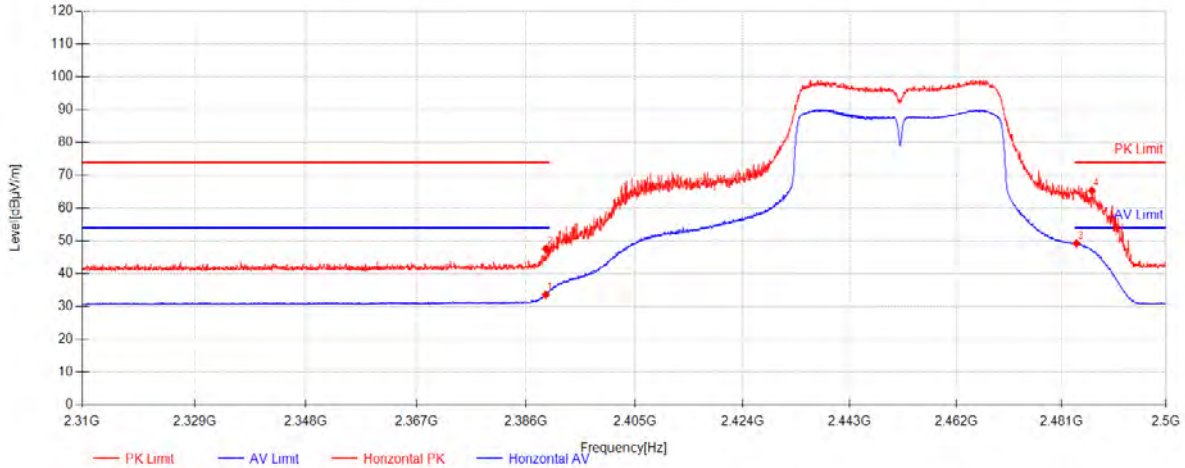


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.1267	46.53	27.43	-23.57	50.39	74.00	23.61	299	130	Vertical
2	2389.6467	34.14	27.43	-23.57	38.00	54.00	16.00	299	130	Vertical
3	2486.02	41.50	27.72	-23.54	45.68	74.00	28.32	299	130	Vertical
4	2486.08	28.04	27.72	-23.54	32.22	54.00	21.78	299	130	Vertical



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802.11n40_Channel 09



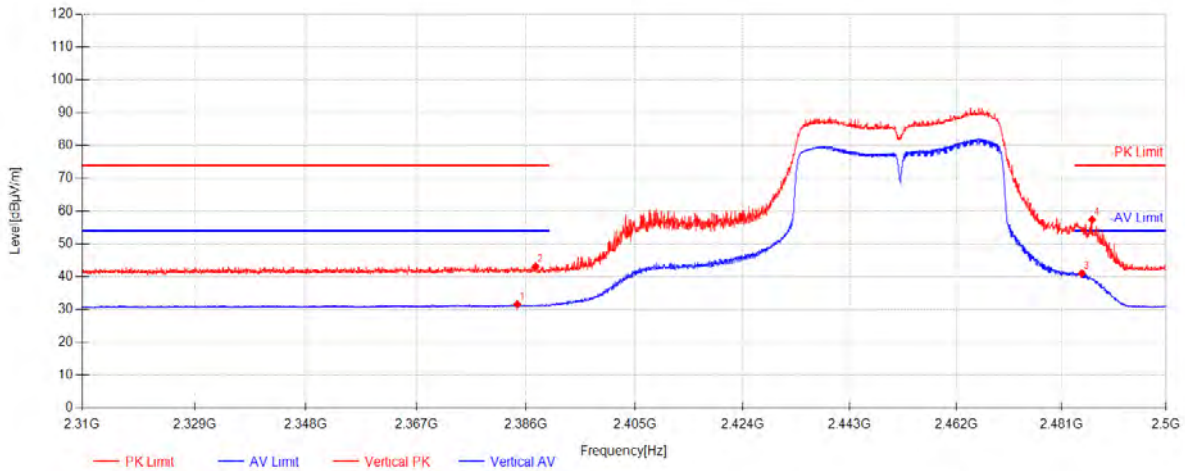
Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.43	29.74	27.43	-23.57	33.60	54.00	20.40	144	321	Horizontal
2	2389.4733	43.72	27.43	-23.57	47.58	74.00	26.42	144	321	Horizontal
3	2483.74	45.08	27.72	-23.54	49.25	54.00	4.75	144	321	Horizontal
4	2486.5	61.20	27.73	-23.54	65.38	74.00	8.62	144	321	Horizontal



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802.11n40_Channel 09



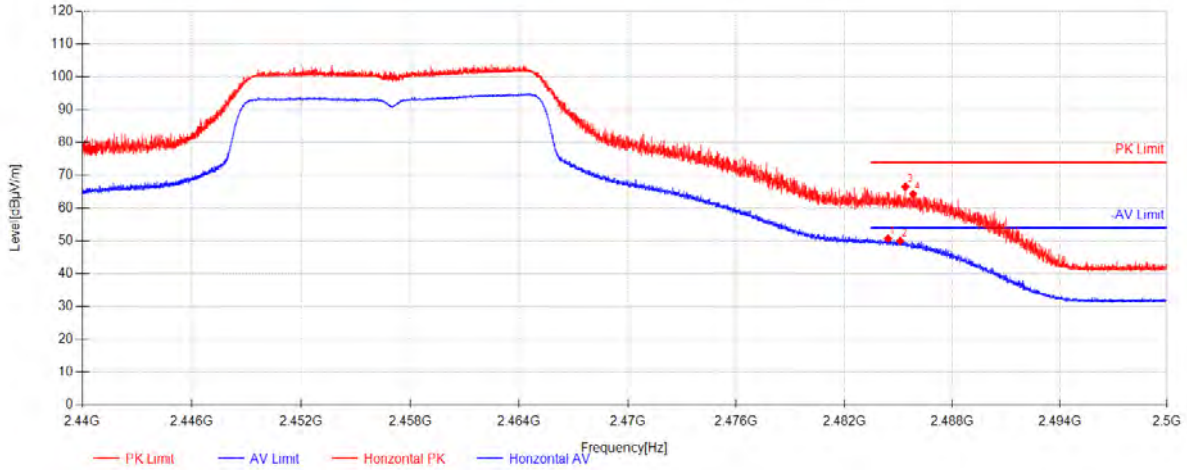
Final Data List										
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1	2384.49	27.67	27.43	-23.57	31.53	54.00	22.47	222	71	Vertical
2	2387.6533	39.25	27.43	-23.57	43.11	74.00	30.89	222	71	Vertical
3	2484.7	36.82	27.72	-23.54	40.99	54.00	13.01	222	71	Vertical
4	2486.56	53.22	27.73	-23.54	57.40	74.00	16.60	222	71	Vertical



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802.11g_Channel 10

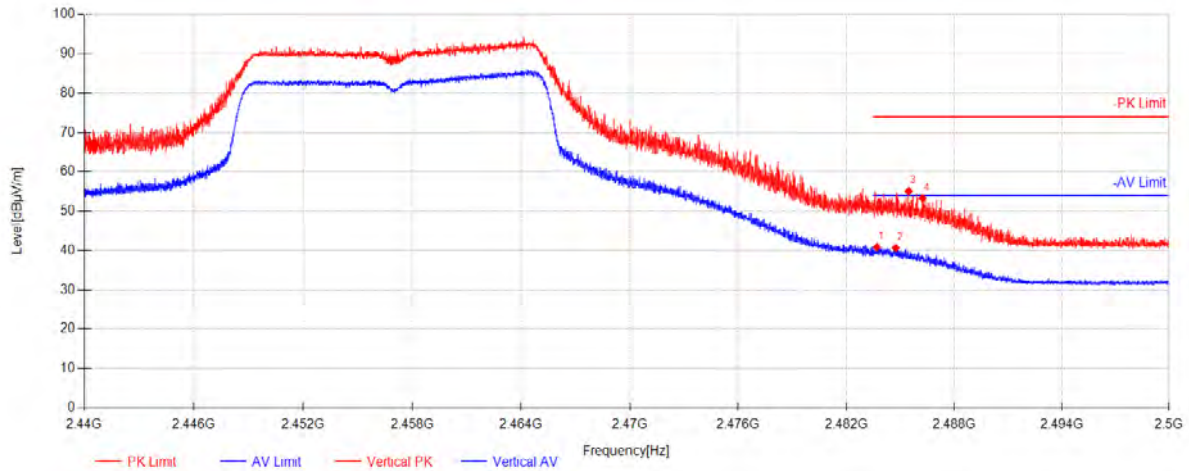


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.43	46.58	27.72	-23.54	50.75	54.00	3.25	214	17	Horizontal
2	2485.1125	45.82	27.72	-23.54	50.00	54.00	4.00	214	17	Horizontal
3	2485.3975	62.38	27.72	-23.54	66.56	74.00	7.44	214	17	Horizontal
4	2485.825	60.07	27.72	-23.54	64.25	74.00	9.75	214	17	Horizontal



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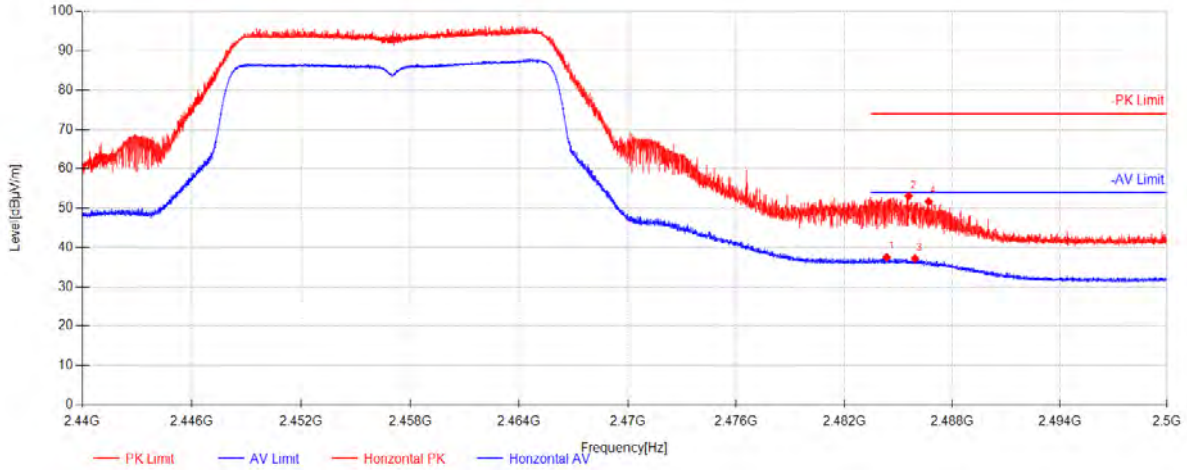


Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7025	36.69	27.72	-23.54	40.86	54.00	13.14	236	120	Vertical
2	2484.745	36.44	27.72	-23.54	40.62	54.00	13.38	236	120	Vertical
3	2485.465	50.94	27.72	-23.54	55.12	74.00	18.88	236	120	Vertical
4	2486.2375	49.08	27.72	-23.54	53.26	74.00	20.74	236	120	Vertical



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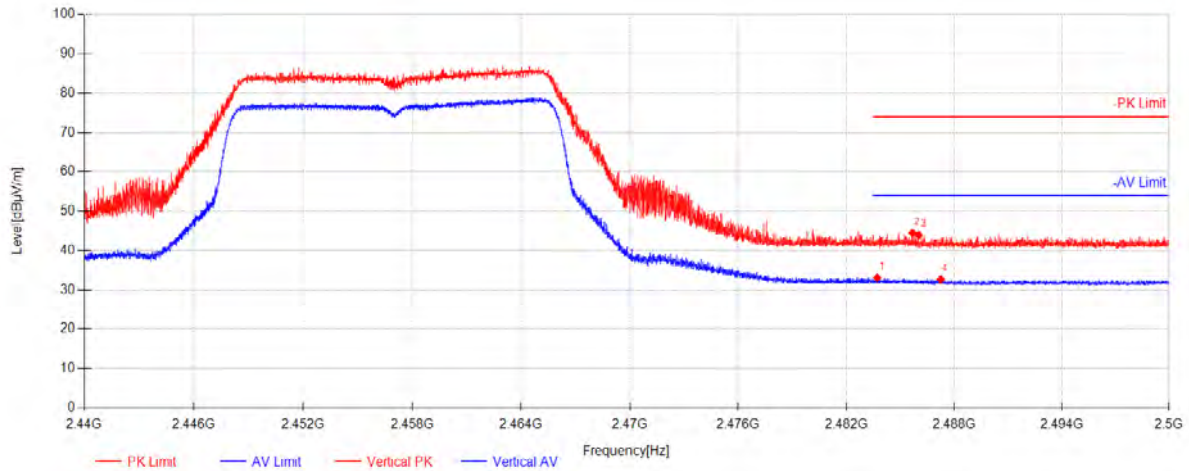


Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.355	33.39	27.72	-23.54	37.56	54.00	16.44	259	251	Horizontal
2	2485.5775	48.86	27.72	-23.54	53.04	74.00	20.96	259	251	Horizontal
3	2485.93	33.06	27.72	-23.54	37.24	54.00	16.76	259	251	Horizontal
4	2486.695	47.46	27.73	-23.54	51.64	74.00	22.36	259	251	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	2483.7175	28.86	27.72	-23.54	33.03	54.00	20.97	213	105	Vertical
2	2485.6825	40.30	27.72	-23.54	44.48	74.00	29.52	213	105	Vertical
3	2486.0275	39.78	27.72	-23.54	43.96	74.00	30.04	213	105	Vertical
4	2487.25	28.46	27.73	-23.54	32.64	54.00	21.36	213	105	Vertical

Remark:

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

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

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

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

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

---End of Report---



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