

Report No.: SEWA2303000041RG03

Rev.: 01

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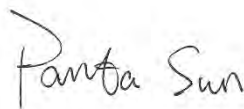
TEST REPORT

Application No: SEWA2303000041RG
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
EUT Description: Smart Module
Model No.: SG560D-WF
Trade Mark: Quectel
FCC ID: XMR2023SG560DWF
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/06
Date of Test: 2023/04/10 to 2023/05/24
Date of Issue: 2023/05/24

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

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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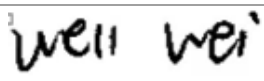
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/05/24		Original

Prepared By	
	(Ives Cheng) / Test Engineer
Checked By	
	(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 C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

3.2 Test Location

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

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Module		
Model No.:	SG560D-WF		
Trade Mark:	Quectel		
Hardware Version:	R1.0		
Software Version:	SG560DWFPAR02A03		
SN:	RF Conducted	E1Q23CD11000024	
	RSE & AC power line	E1Q23CD11000023	
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz	
	802.11n(HT40)/ax(HE40):	2422MHz to 2452MHz	
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)	
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)	
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)	
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40): 7		
Channel Spacing:	5MHz		
Smart System:	☒ SISO	802.11b/g/n/ax	
	☒ MIMO	802.11n/ax: 2Tx & 2Rx	
	☒ Diversity	802.11b/g: 2Tx & 2Rx	
Antenna Type:	External Antenna		
Antenna Gain:	0.47dBi (Ant0); 0.47dBi (Ant1)		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.0dB		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			



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Operation Frequency of each channel (802.11b/g/n HT20 /ax HE20)							
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 /ax HE40)							
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) /ax (HE20)			Frequency for 802.11n (HT40)/ax(HE40)		
The Lowest channel		2412MHz			2422MHz		
The Middle channel		2437MHz			2437MHz		
The Highest channel		2462MHz			2452MHz		



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	4
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

Description	Manufacturer	Model No.
SMART-5G-EVB-KIT	Quectel	Q1-C0129
Adapter	DongGuan City GangQi Electronic Co.,Ltd	CQ36-120300-AX
Remark: all above the information of table are provided by client.		

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11b	1 Mbps	2 Mbps
802.11g	6 Mbps	12 Mbps
802.11n (HT 20)	MCS0 (6.5 Mbps)	MCS0 (13 Mbps)
802.11n (HT 40)	MCS0 (13.5 Mbps)	MCS0 (27 Mbps)
802.11ax (HE 20)	MCS0 (8 Mbps)	MCS0 (16 Mbps)
802.11ax (HE 40)	MCS0 (16 Mbps)	MCS0 (32 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)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.47dBi (Ant0); 0.47dBi (Ant1).* <i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i>	



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.

- For power measurements on IEEE 802.11 devices:

$Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

ANT Gain0 (dBi)	ANT Gain1 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
0.47	0.47	0.47	3.48	0	0

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement.		



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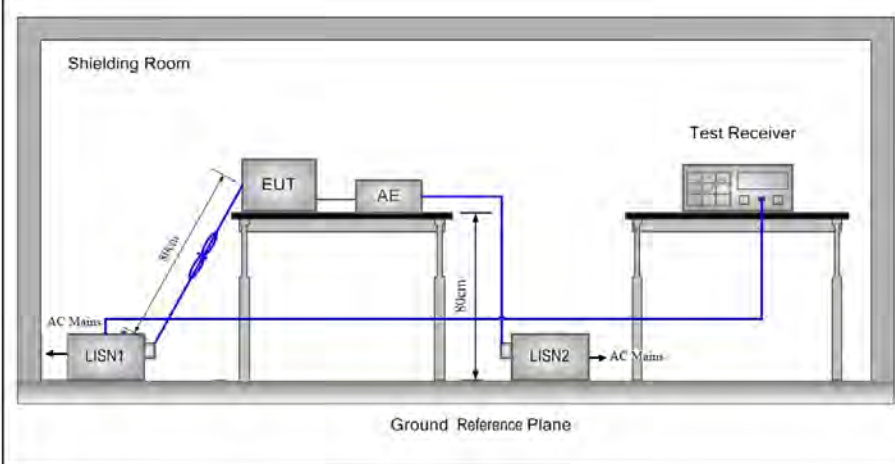
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. Only the worst case is recorded in the report.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



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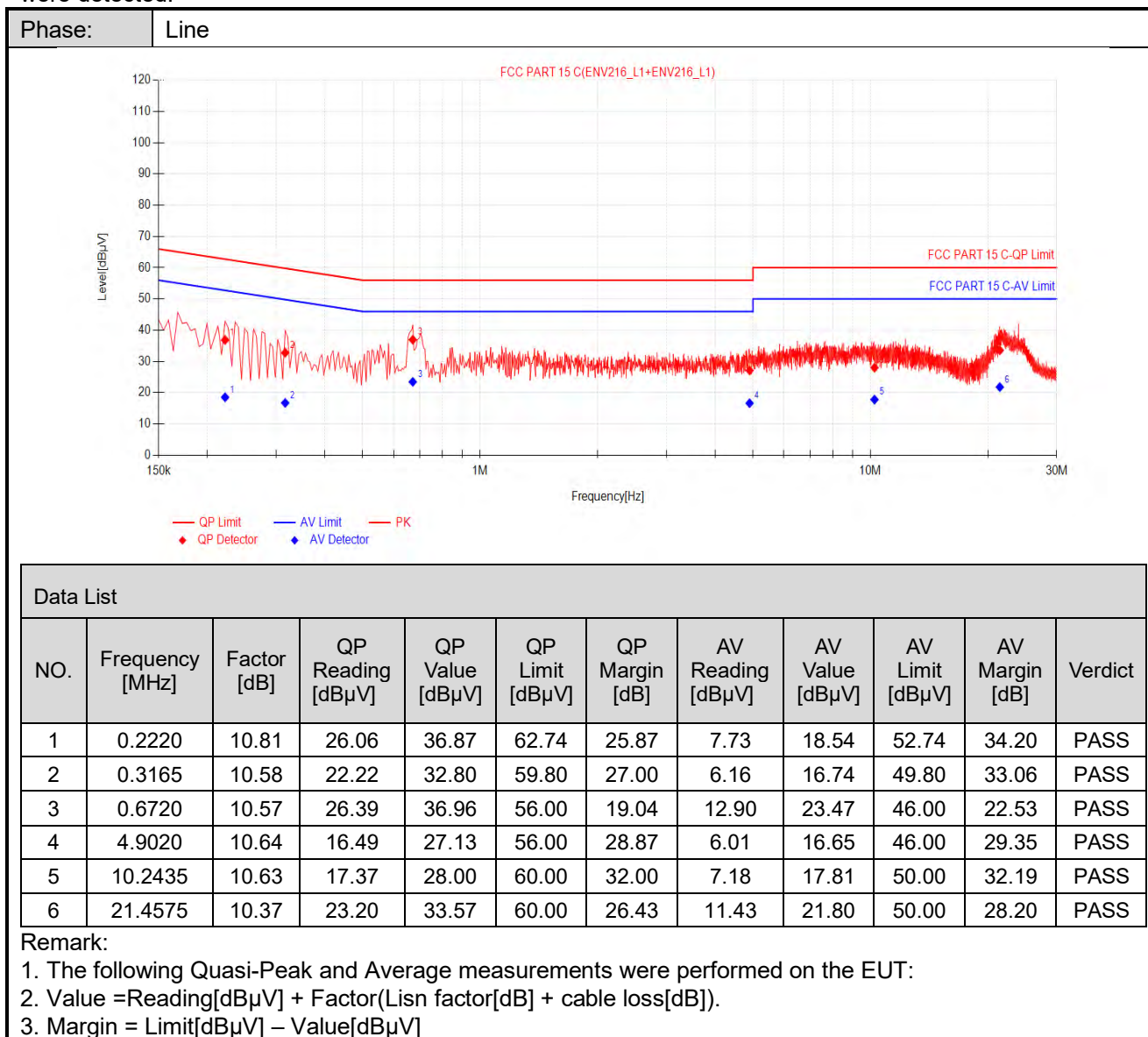
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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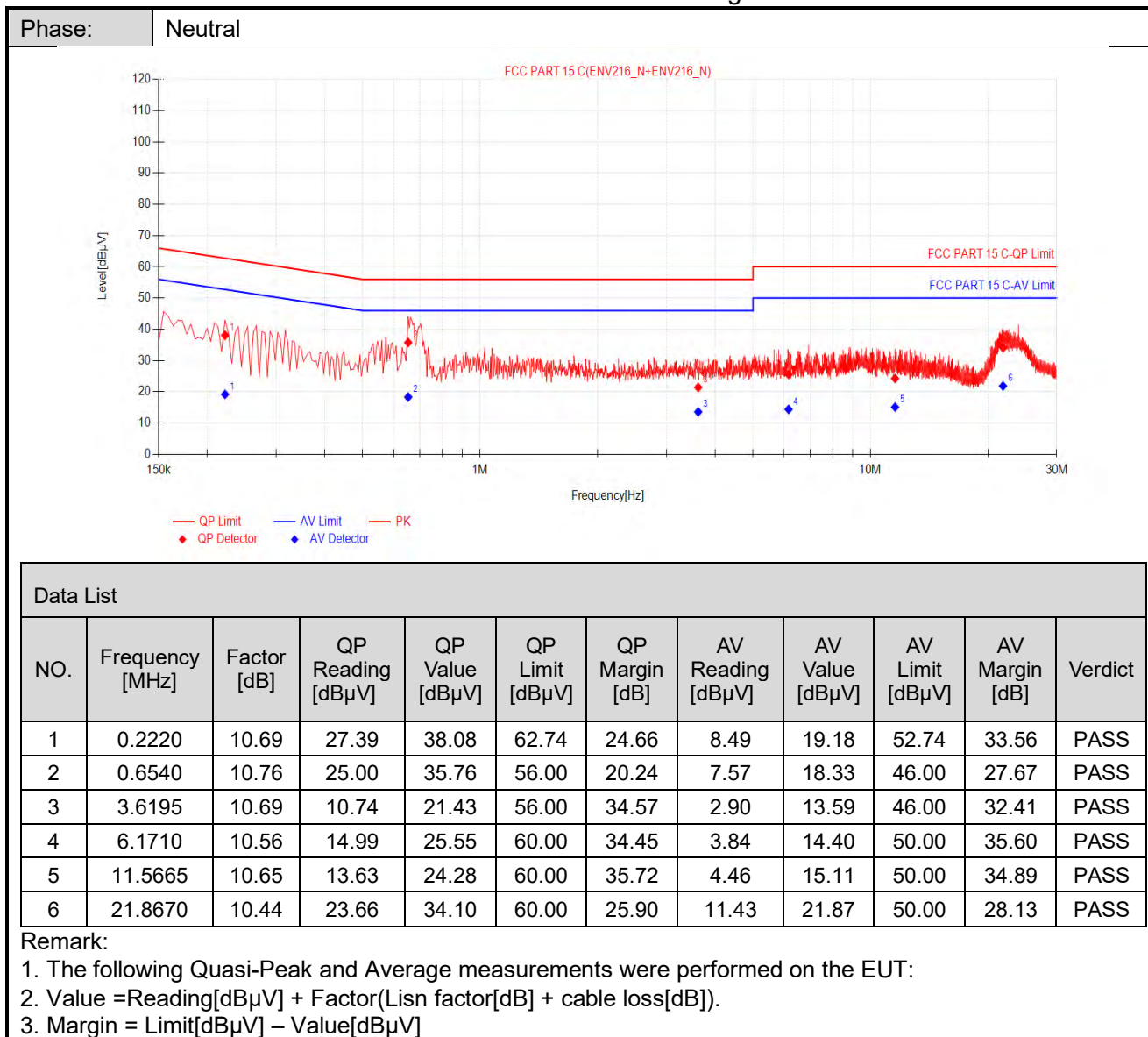
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4.3 Duty Cycle

The detailed test data see: **Appendix**



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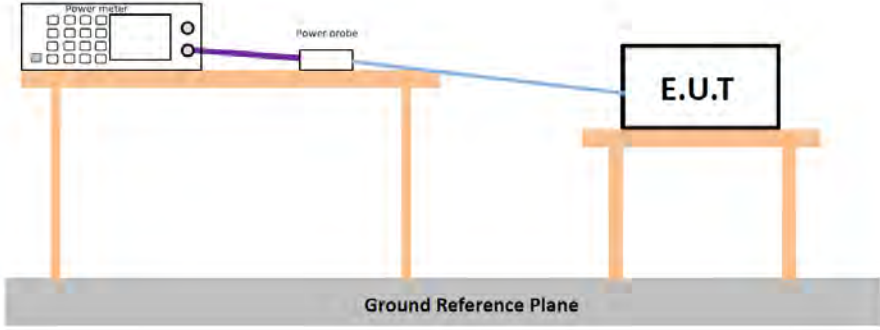
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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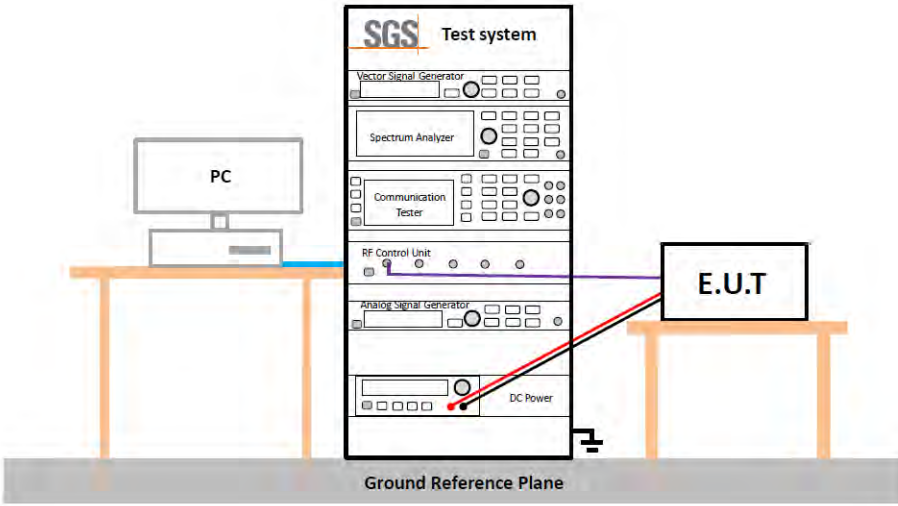
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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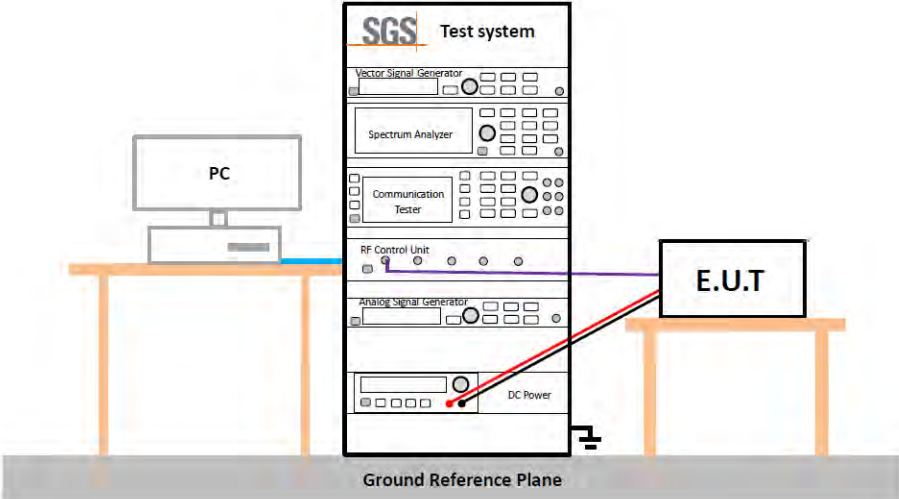
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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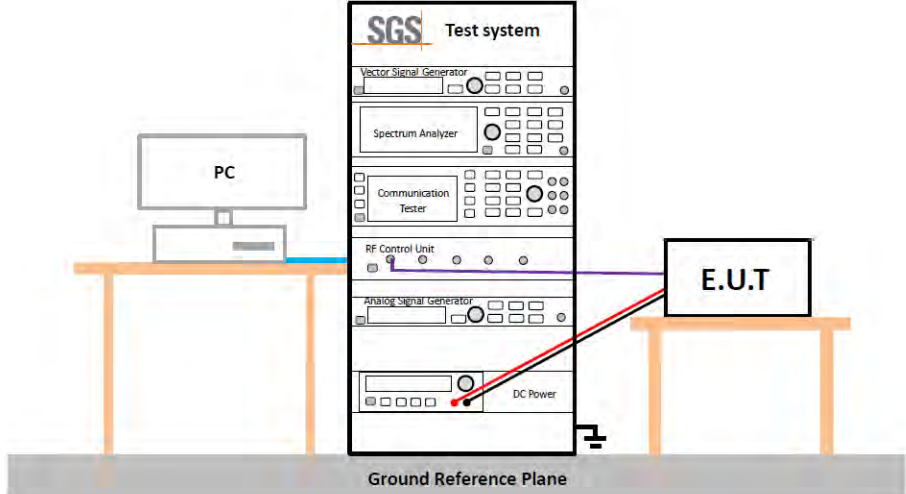
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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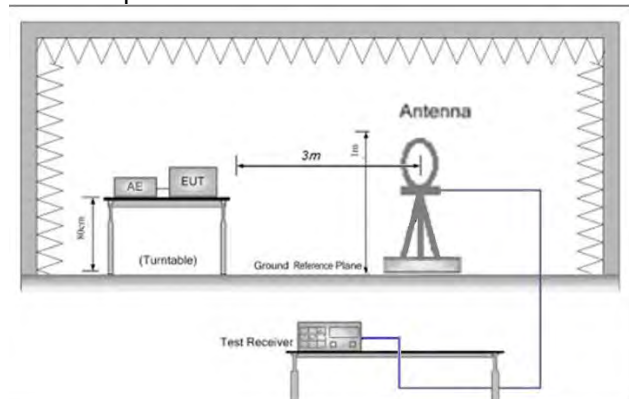


Figure 1. Below 30MHz

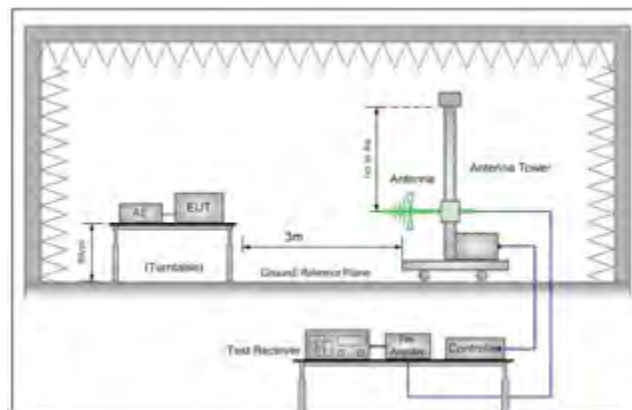


Figure 2. 30MHz to 1GHz

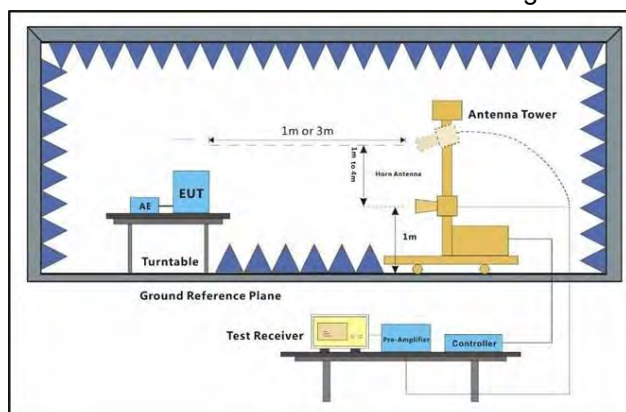


Figure 3. Above 1 GHz

Test Procedure:

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

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	maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. 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. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

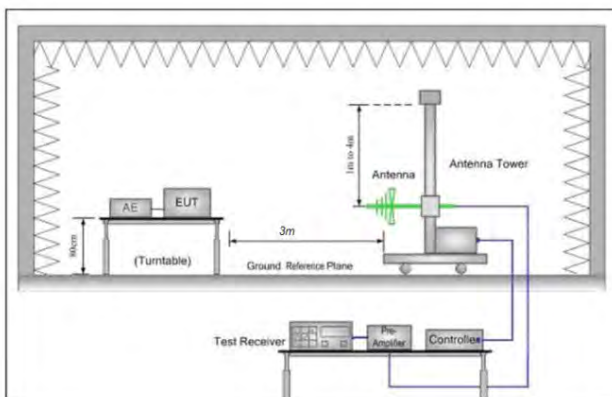


Figure 1. 30MHz to 1GHz

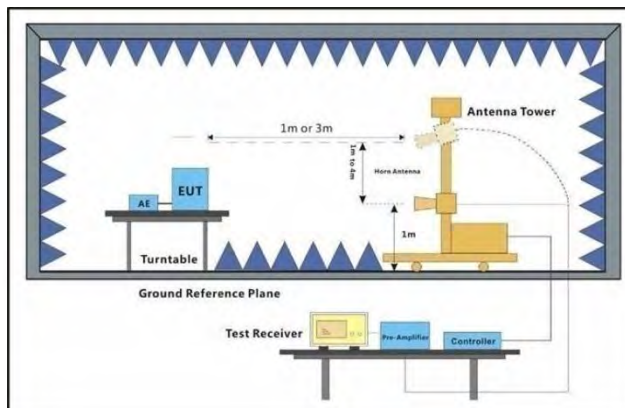


Figure 2. Above 1 GHz



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



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Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\%$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 1.0\%$
7	Conduction Emission	$\pm 2.90\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k to 30MHz)
		$\pm 4.88\text{dB}$ (30M to 1GHz)
		$\pm 4.75\text{dB}$ (1GHz to 18GHz)
		$\pm 4.77\text{dB}$ (Above 18GHz)

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



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
				2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

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



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna*	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Note*:The equipment will not be used after 2023/05/08.



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b-CDD	Ant0	2412	8.12	2407.96	2416.08	≥0.5	PASS
	Ant1	2412	8.16	2407.96	2416.12	≥0.5	PASS
	Ant0	2437	7.16	2433.44	2440.60	≥0.5	PASS
	Ant1	2437	7.16	2433.44	2440.60	≥0.5	PASS
	Ant0	2462	7.64	2457.96	2465.60	≥0.5	PASS
	Ant1	2462	8.16	2457.92	2466.08	≥0.5	PASS
11g-CDD	Ant0	2412	16.44	2403.80	2420.24	≥0.5	PASS
	Ant1	2412	16.36	2403.84	2420.20	≥0.5	PASS
	Ant0	2437	16.40	2428.80	2445.20	≥0.5	PASS
	Ant1	2437	16.40	2428.84	2445.24	≥0.5	PASS
	Ant0	2462	16.44	2453.80	2470.24	≥0.5	PASS
	Ant1	2462	16.40	2453.80	2470.20	≥0.5	PASS
11n20MIMO	Ant0	2412	17.64	2403.20	2420.84	≥0.5	PASS
	Ant1	2412	17.36	2403.48	2420.84	≥0.5	PASS
	Ant0	2437	17.64	2428.20	2445.84	≥0.5	PASS
	Ant1	2437	17.64	2428.20	2445.84	≥0.5	PASS
	Ant0	2462	17.36	2453.20	2470.56	≥0.5	PASS
	Ant1	2462	17.64	2453.20	2470.84	≥0.5	PASS
11n40MIMO	Ant0	2422	36.00	2404.00	2440.00	≥0.5	PASS
	Ant1	2422	36.48	2403.76	2440.24	≥0.5	PASS
	Ant0	2437	36.48	2418.76	2455.24	≥0.5	PASS
	Ant1	2437	35.44	2419.40	2454.84	≥0.5	PASS
	Ant0	2452	35.44	2434.16	2469.60	≥0.5	PASS
	Ant1	2452	36.48	2433.76	2470.24	≥0.5	PASS
11ax20MIMO	Ant0	2412	17.40	2403.44	2420.84	≥0.5	PASS
	Ant1	2412	17.64	2403.20	2420.84	≥0.5	PASS
	Ant0	2437	17.40	2428.20	2445.60	≥0.5	PASS
	Ant1	2437	17.64	2428.20	2445.84	≥0.5	PASS
	Ant0	2462	17.28	2453.20	2470.48	≥0.5	PASS
	Ant1	2462	17.64	2453.20	2470.84	≥0.5	PASS
11ax40MIMO	Ant0	2422	36.24	2403.76	2440.00	≥0.5	PASS
	Ant1	2422	36.48	2403.76	2440.24	≥0.5	PASS
	Ant0	2437	36.24	2418.76	2455.00	≥0.5	PASS
	Ant1	2437	36.48	2418.76	2455.24	≥0.5	PASS
	Ant0	2452	35.92	2433.76	2469.68	≥0.5	PASS
	Ant1	2452	35.84	2433.76	2469.60	≥0.5	PASS



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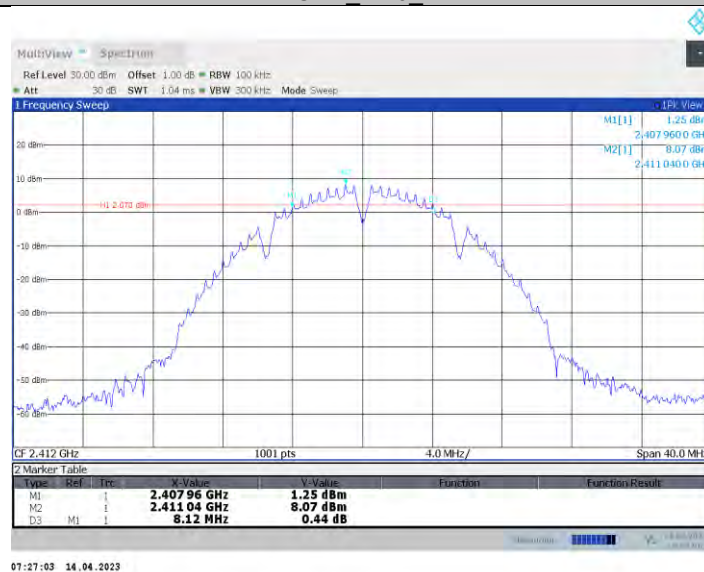
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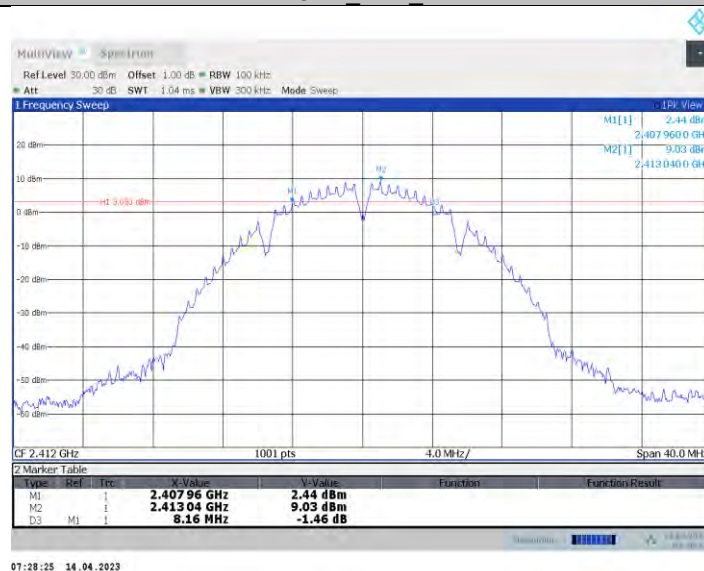
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Test Graphs

11b-CDD_Ant0_2412



11b-CDD_Ant1_2412



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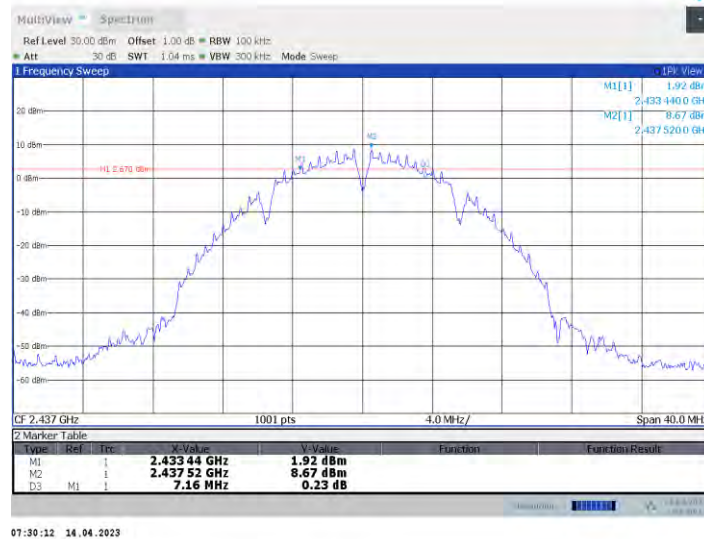
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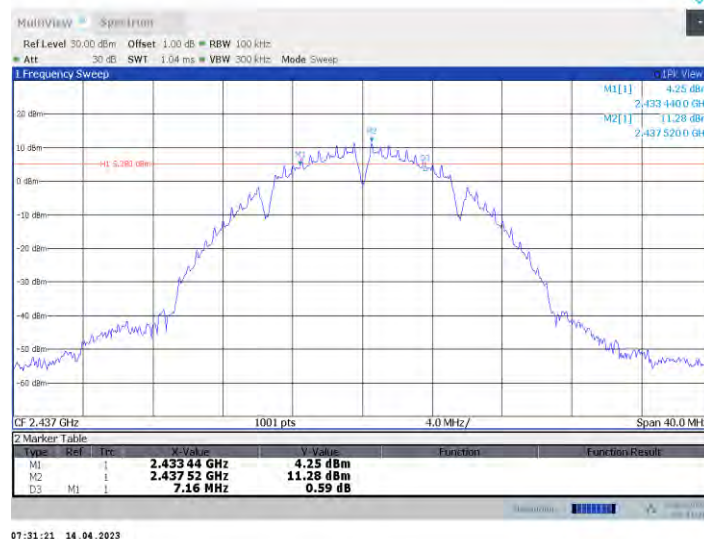
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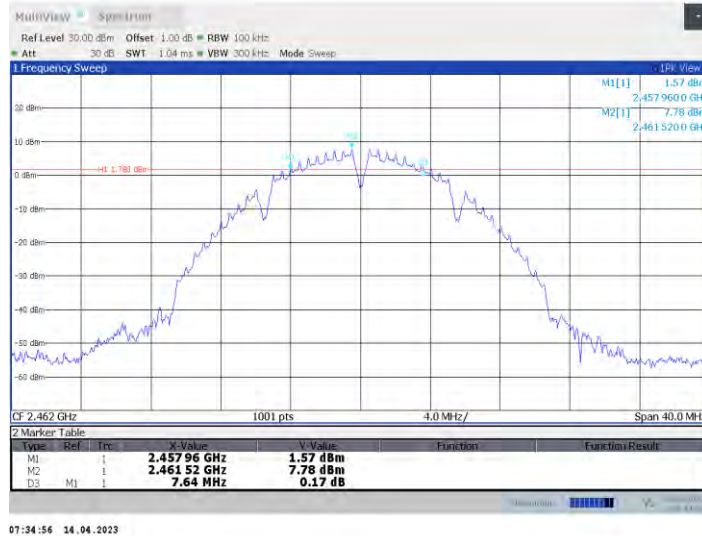
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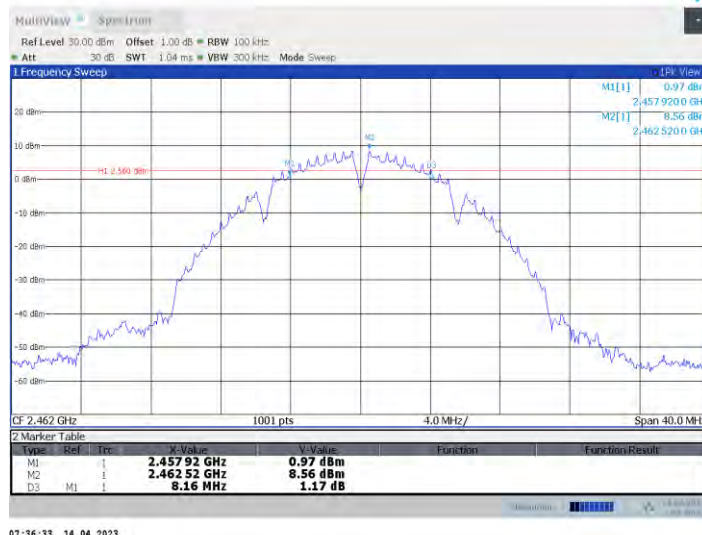
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11b-CDD_Ant1_2462



07:36:33 14.04.2023



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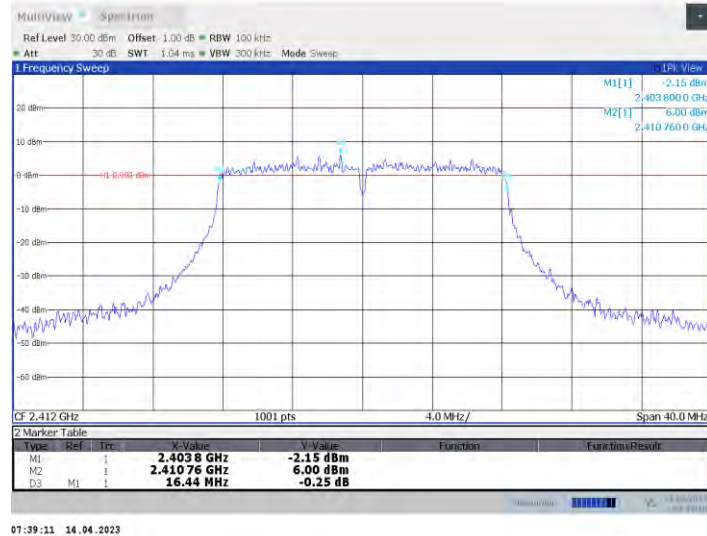
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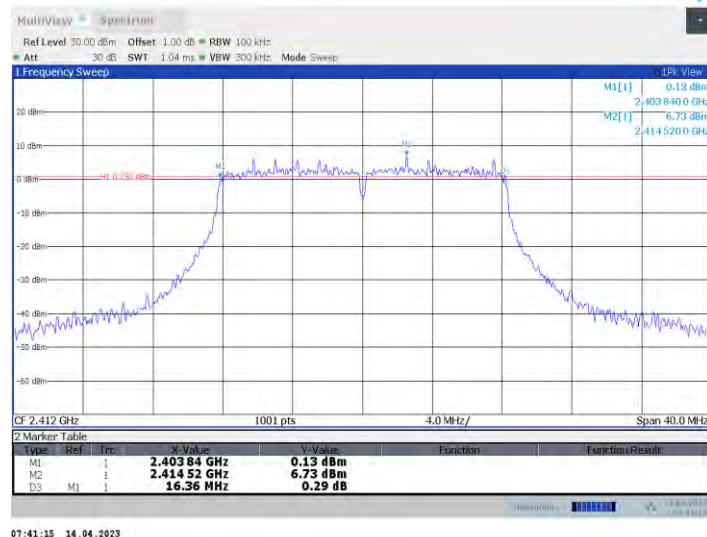
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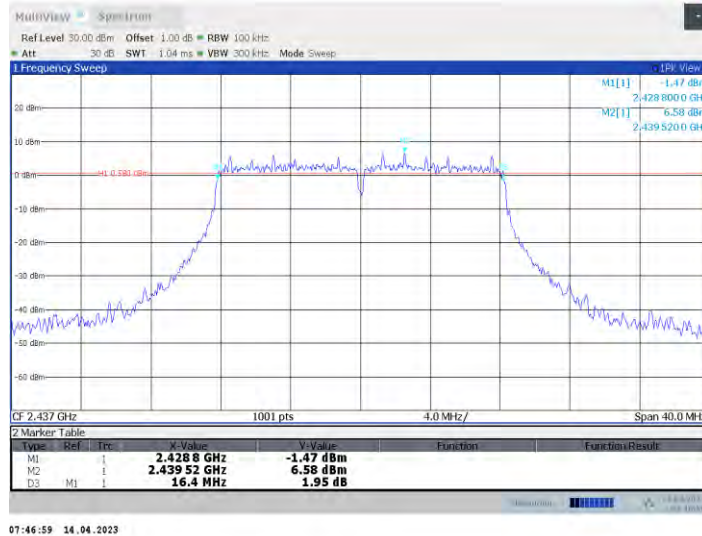
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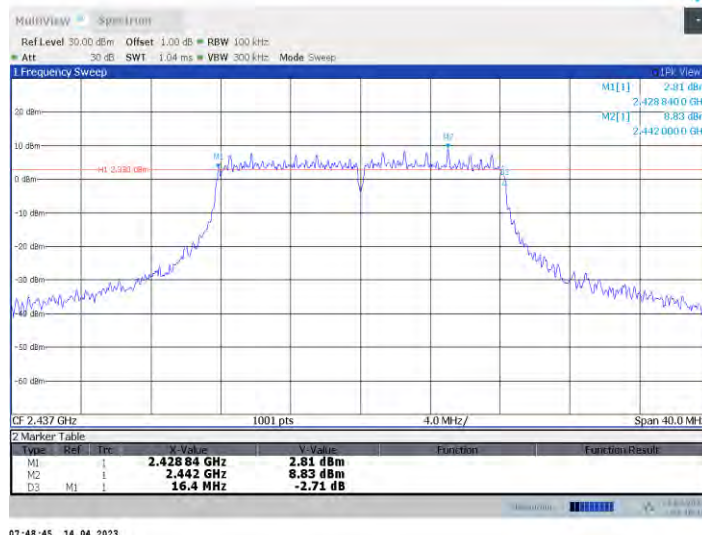
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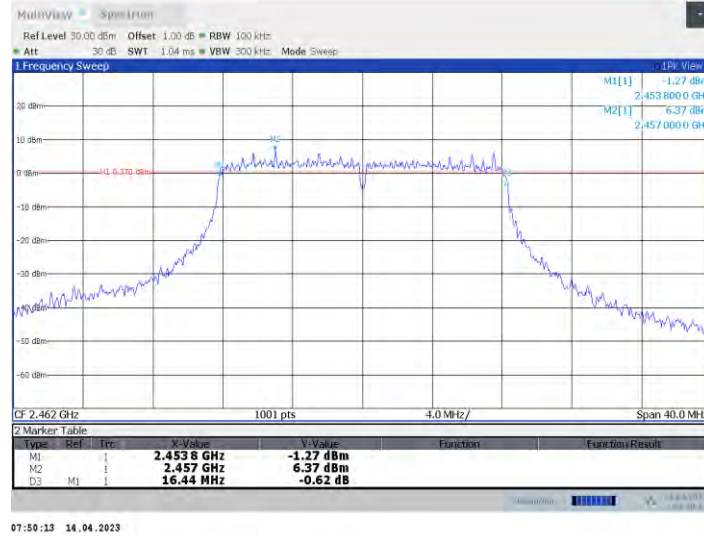
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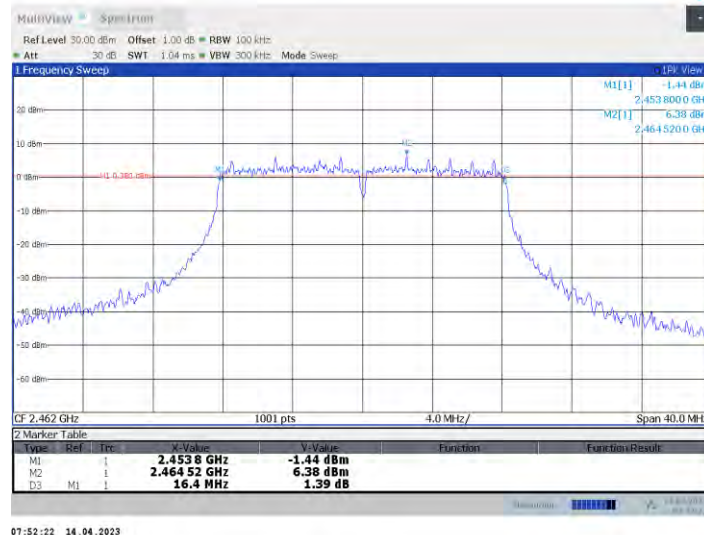
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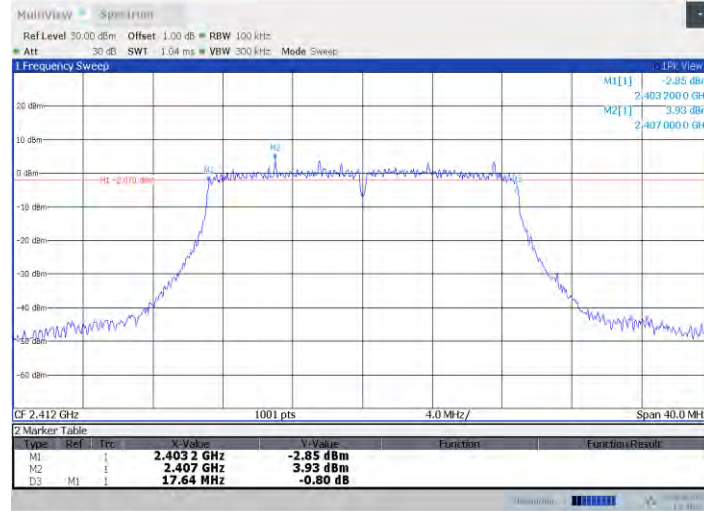
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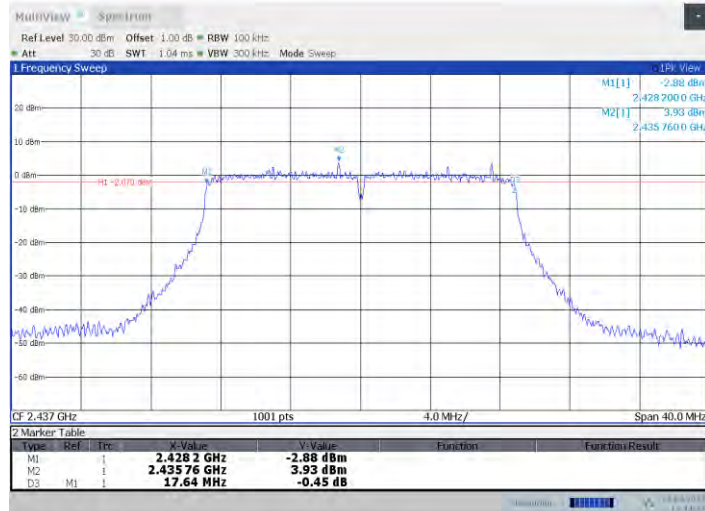
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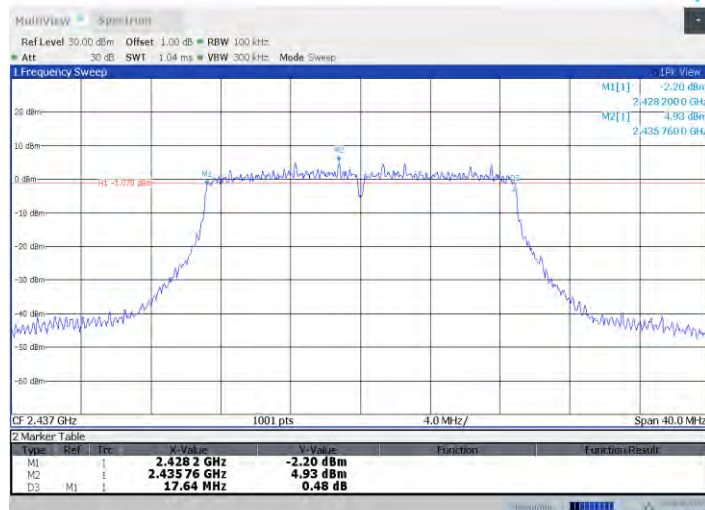
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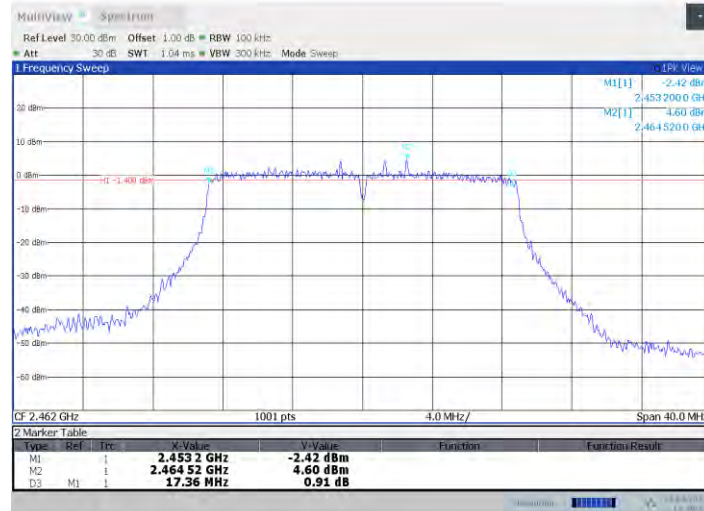
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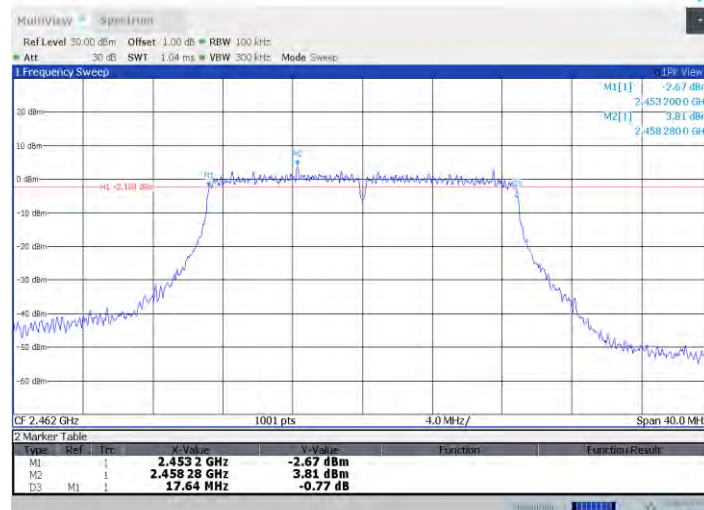
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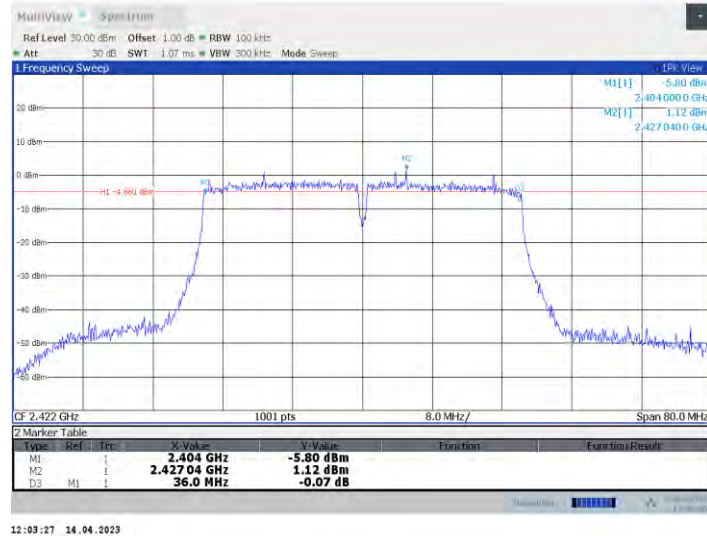
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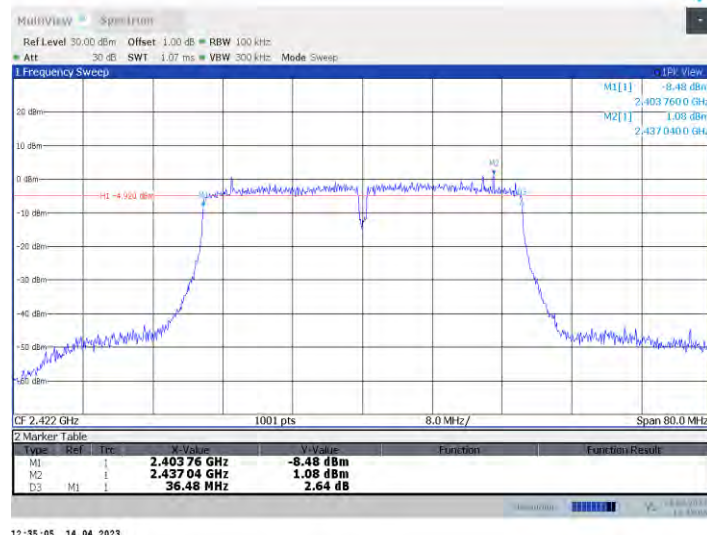
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11n40MIMO_Ant0_2422



12:03:27 14.04.2023

11n40MIMO_Ant1_2422



12:35:05 14.04.2023



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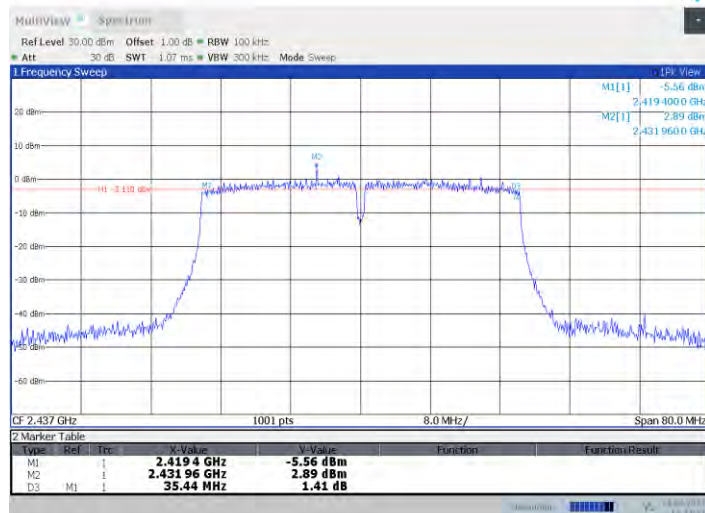
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11n40MIMO_Ant0_2437



12:36:42 14.04.2023

11n40MIMO_Ant1_2437



12:37:53 14.04.2023



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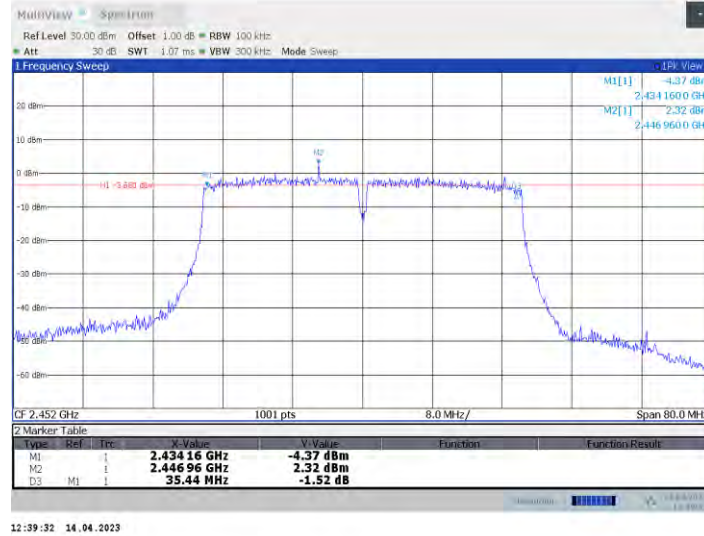
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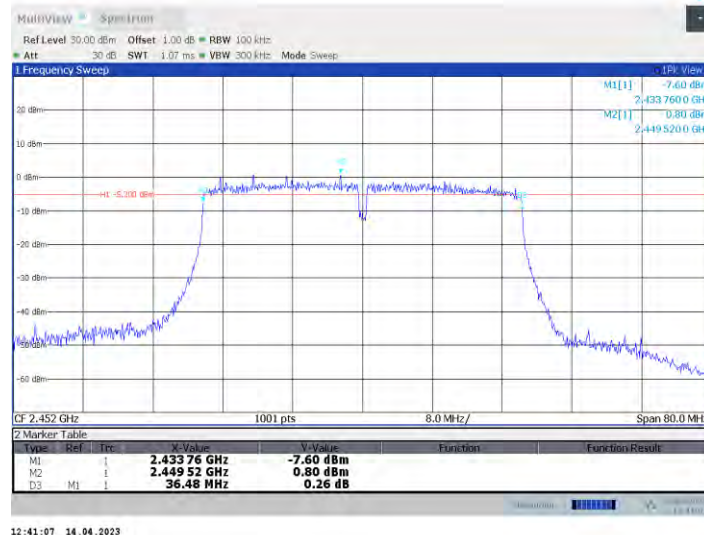
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11n40MIMO_Ant0_2452



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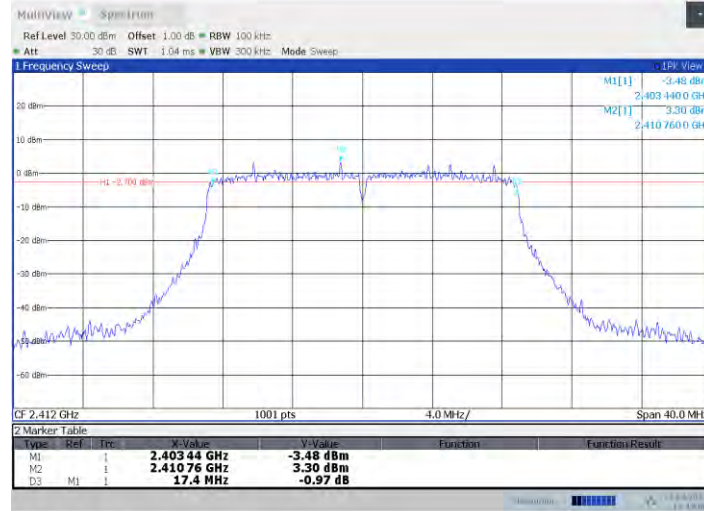
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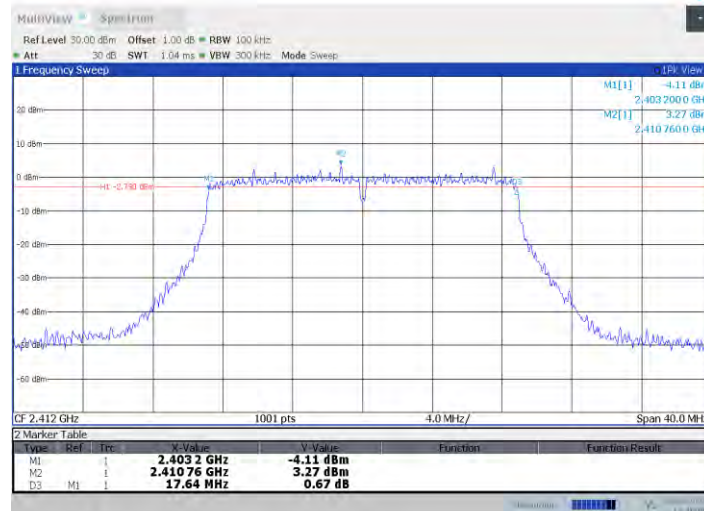
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11ax20MIMO_Ant0_2412



12:43:00 14.04.2023

11ax20MIMO_Ant1_2412



12:46:10 14.04.2023



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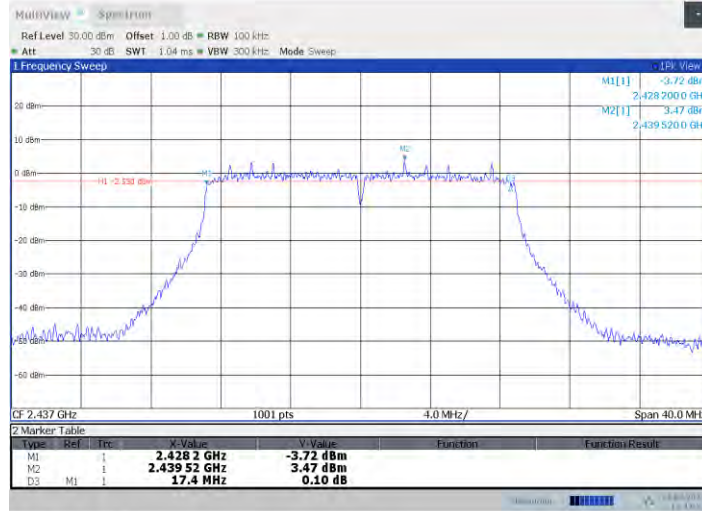
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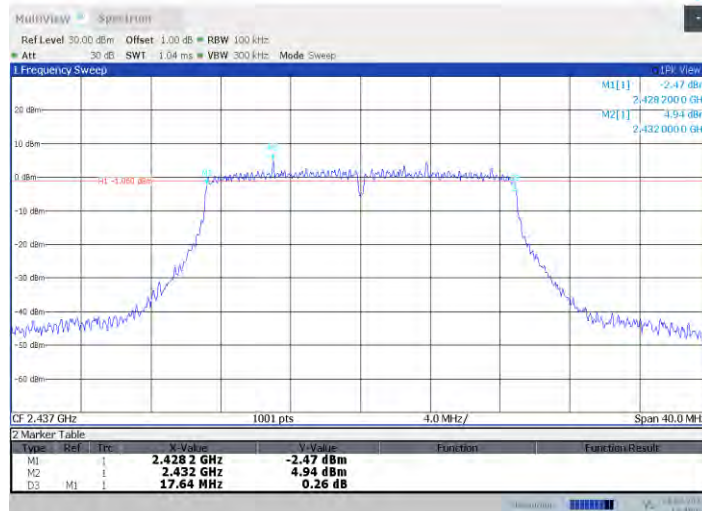
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11ax20MIMO_Ant0_2437



12:47:51 14.04.2023

11ax20MIMO_Ant1_2437



12:49:02 14.04.2023



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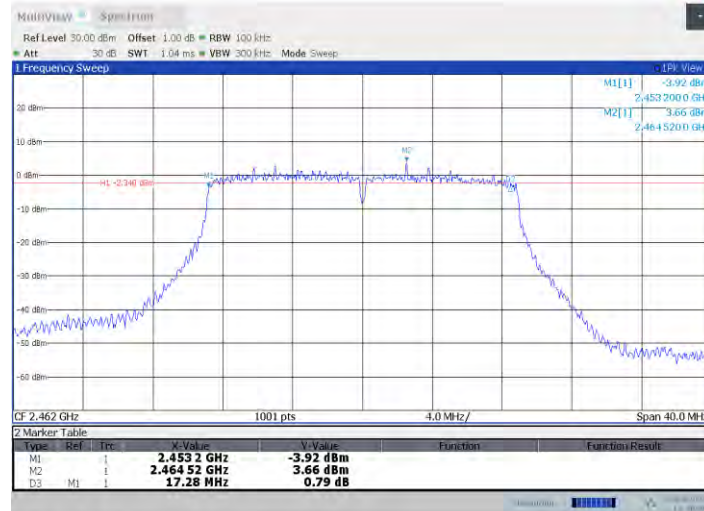
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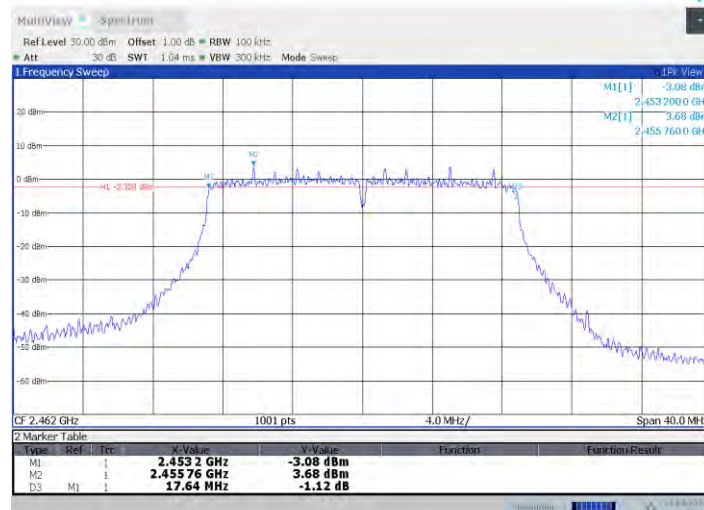
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11ax20MIMO_Ant0_2462



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11ax20MIMO_Ant1_2462



12:52:04 14.04.2023



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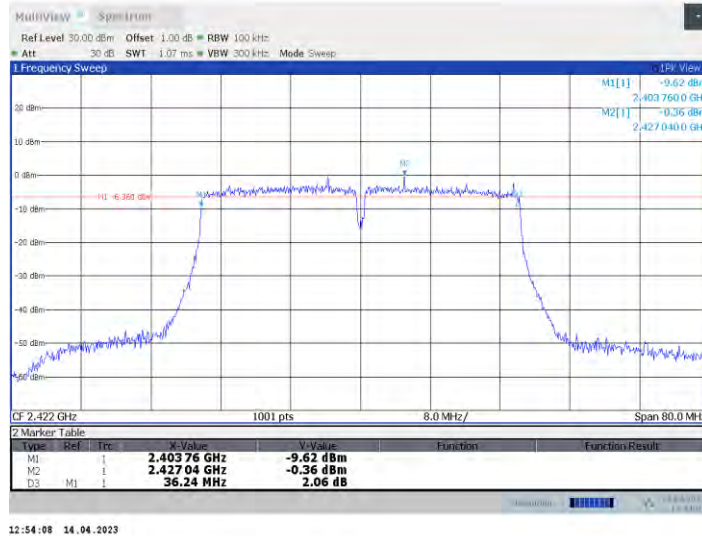
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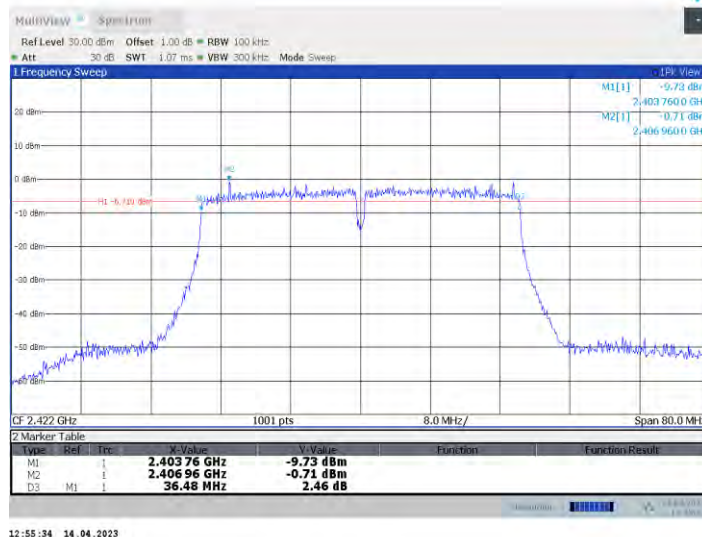
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12:54:08 14.04.2023

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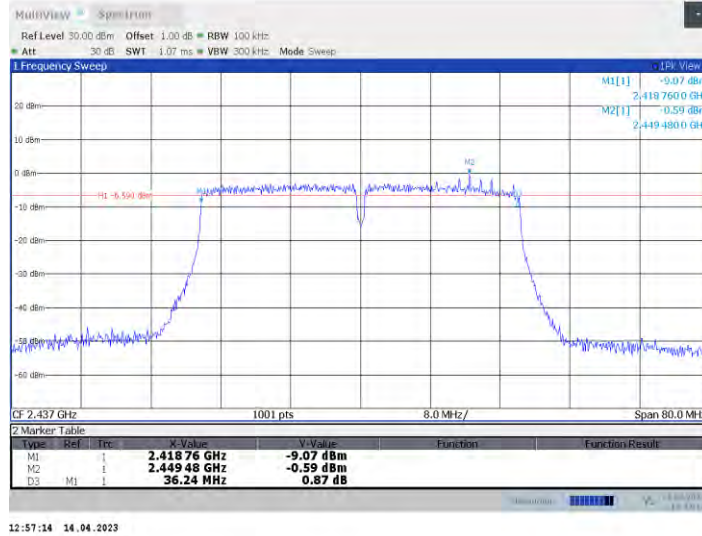
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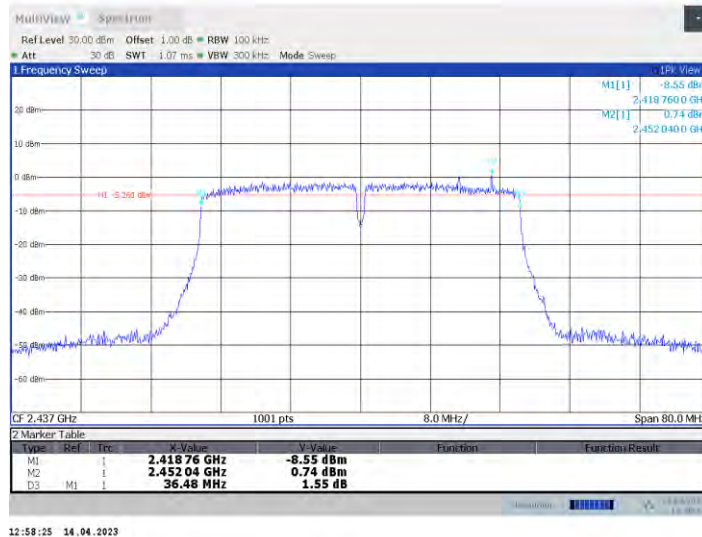
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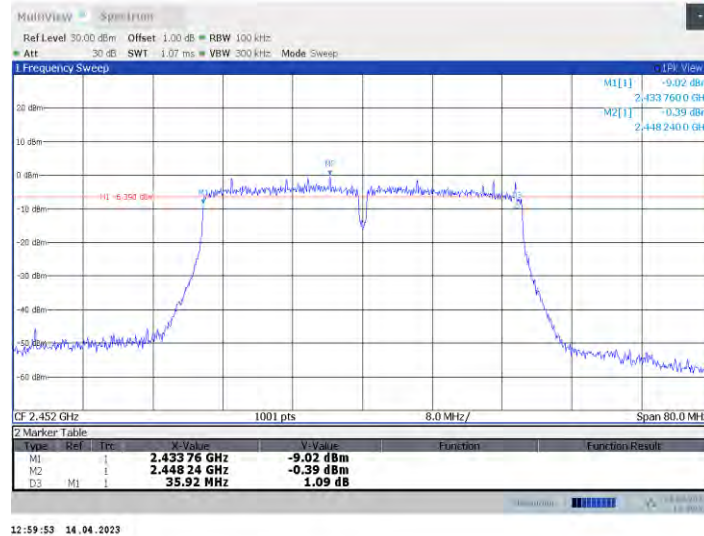
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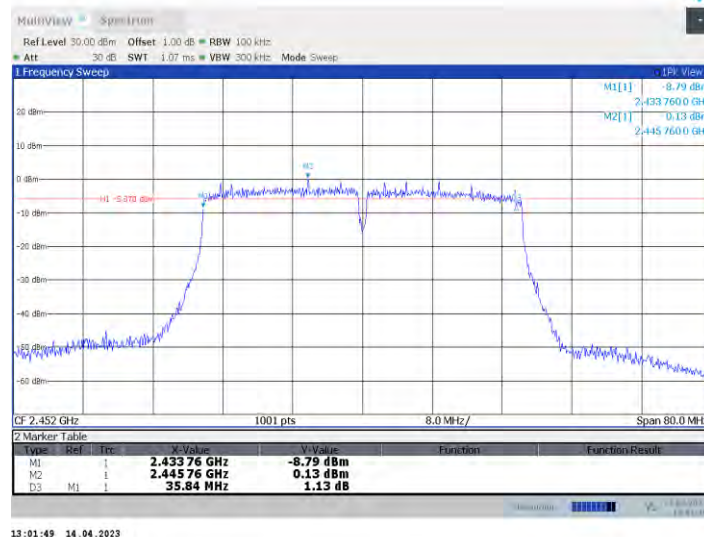
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b-CDD	Ant0	2412	12.943	2405.552	2418.495	For Report Purpose
	Ant1	2412	13.035	2405.511	2418.547	
	Ant0	2437	13.083	2430.453	2443.536	
	Ant1	2437	12.997	2430.502	2443.499	
	Ant0	2462	13.06	2455.404	2468.464	
	Ant1	2462	13.093	2455.365	2468.459	
11g-CDD	Ant0	2412	16.624	2403.681	2420.306	
	Ant1	2412	16.613	2403.675	2420.288	
	Ant0	2437	16.7	2428.615	2445.315	
	Ant1	2437	16.593	2428.713	2445.307	
	Ant0	2462	16.606	2453.697	2470.304	
	Ant1	2462	16.646	2453.611	2470.257	
11n20MIMO	Ant0	2412	17.751	2403.127	2420.879	
	Ant1	2412	17.785	2403.153	2420.938	
	Ant0	2437	17.775	2428.096	2445.871	
	Ant1	2437	17.757	2428.132	2445.889	
	Ant0	2462	17.757	2453.091	2470.847	
	Ant1	2462	17.773	2453.087	2470.860	
11n40MIMO	Ant0	2422	36.139	2403.902	2440.040	
	Ant1	2422	36.216	2403.979	2440.195	
	Ant0	2437	36.196	2418.850	2455.046	
	Ant1	2437	36.161	2418.959	2455.120	
	Ant0	2452	36.151	2433.865	2470.016	
	Ant1	2452	36.142	2433.880	2470.021	
11ax20MIMO	Ant0	2412	17.748	2403.145	2420.893	
	Ant1	2412	17.798	2403.135	2420.933	
	Ant0	2437	17.777	2428.092	2445.869	
	Ant1	2437	17.75	2428.140	2445.890	
	Ant0	2462	17.768	2453.084	2470.852	
	Ant1	2462	17.779	2453.084	2470.863	
11ax40MIMO	Ant0	2422	36.131	2403.931	2440.062	
	Ant1	2422	36.241	2403.964	2440.205	
	Ant0	2437	36.173	2418.857	2455.030	
	Ant1	2437	36.15	2418.955	2455.105	
	Ant0	2452	36.125	2433.863	2469.987	
	Ant1	2452	36.183	2433.877	2470.060	



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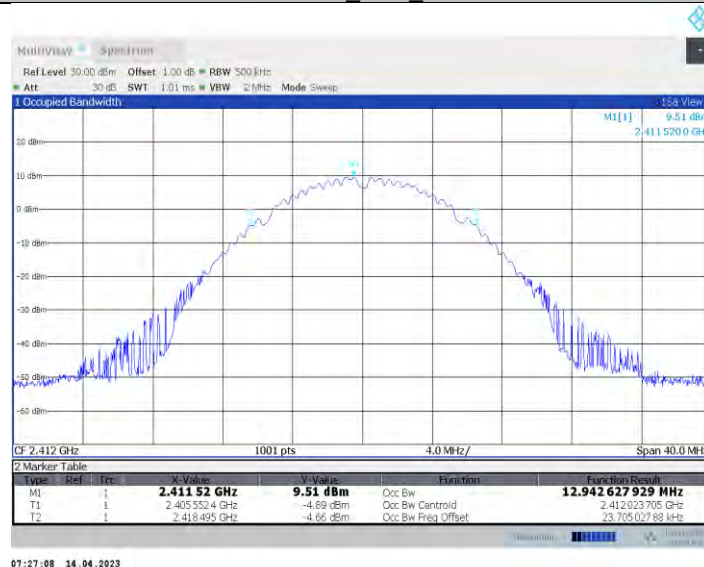
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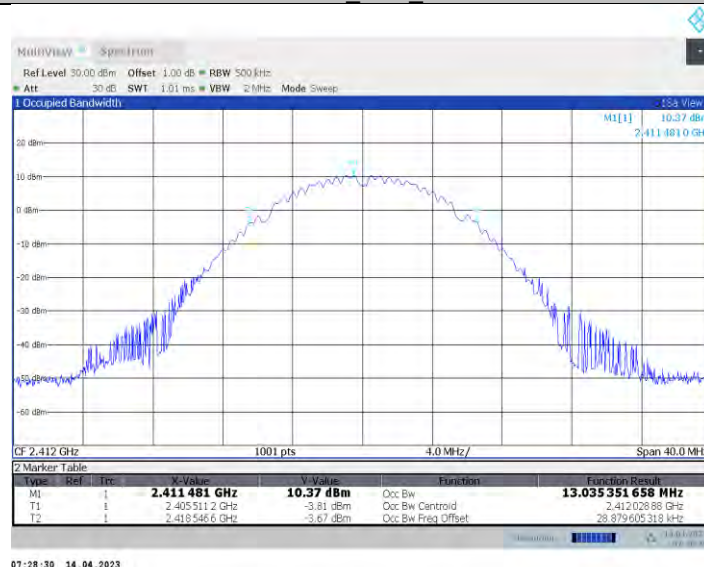
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Test Graphs

11b-CDD_Ant0_2412



11b-CDD_Ant1_2412



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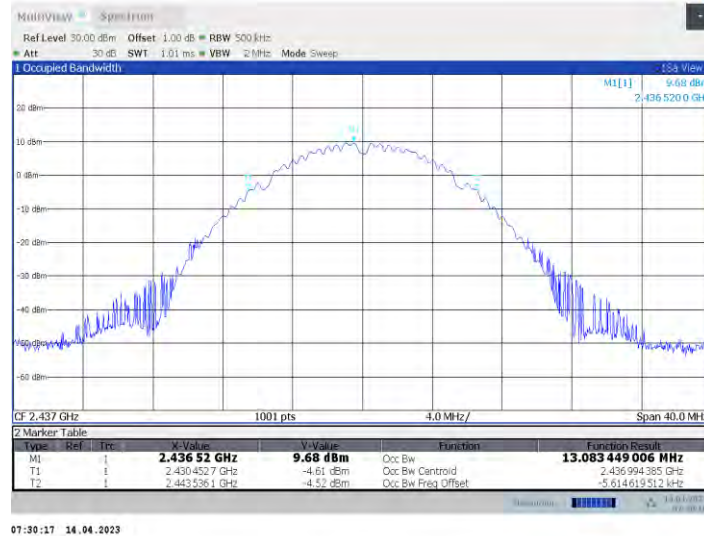
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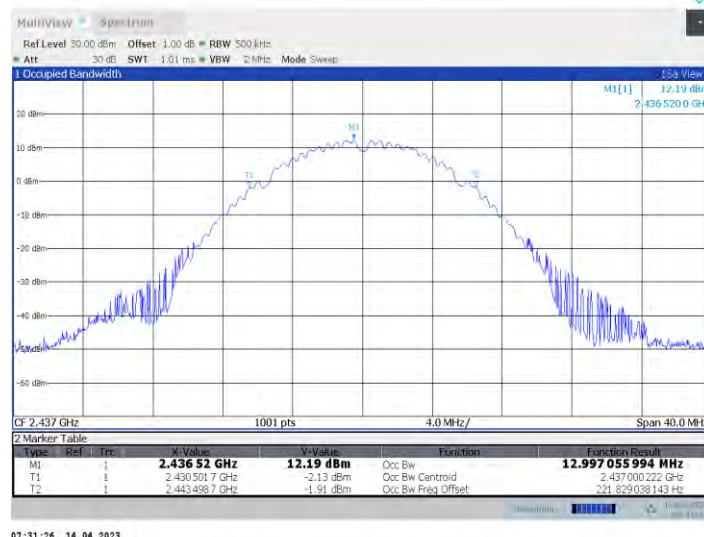
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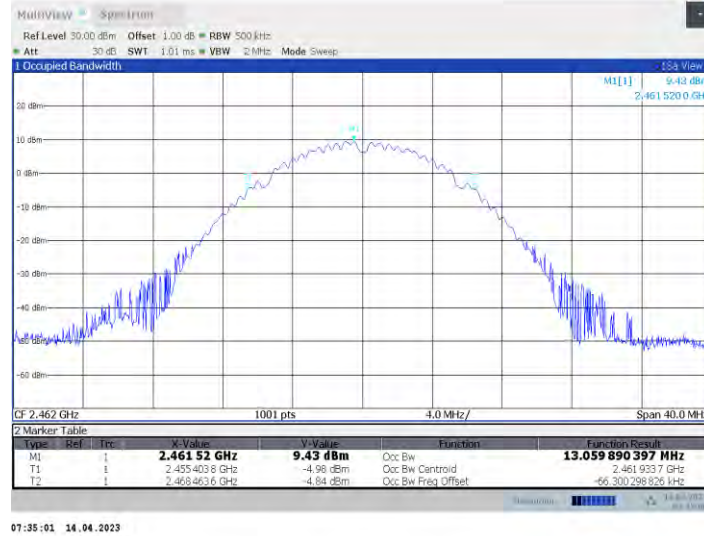
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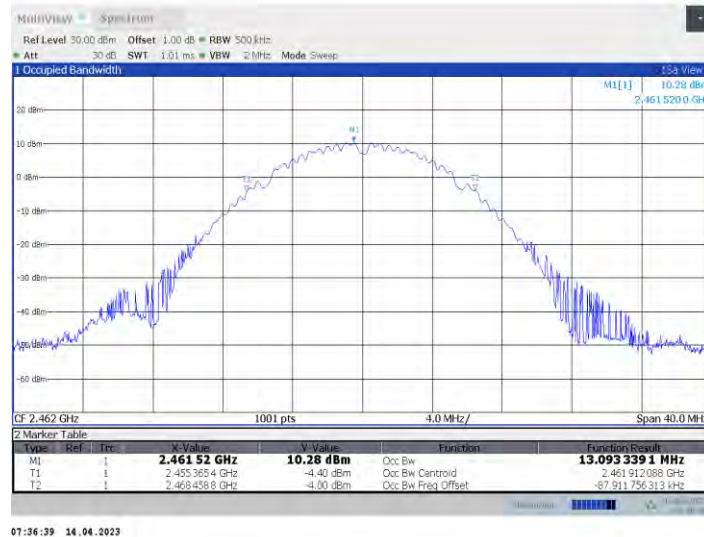
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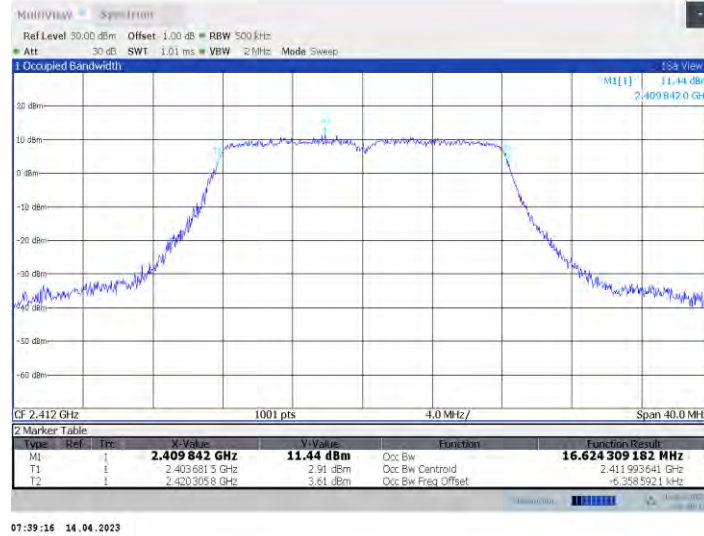
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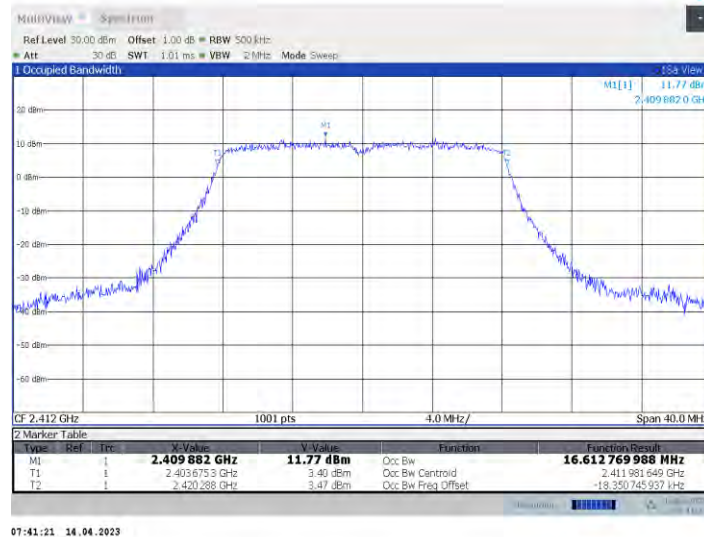
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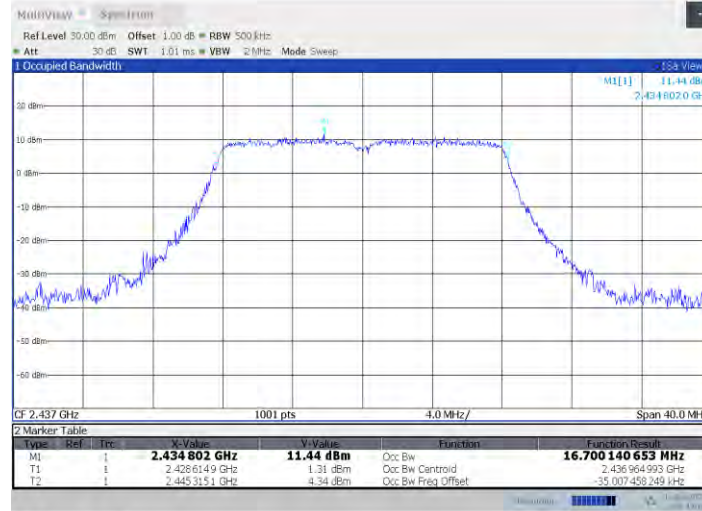
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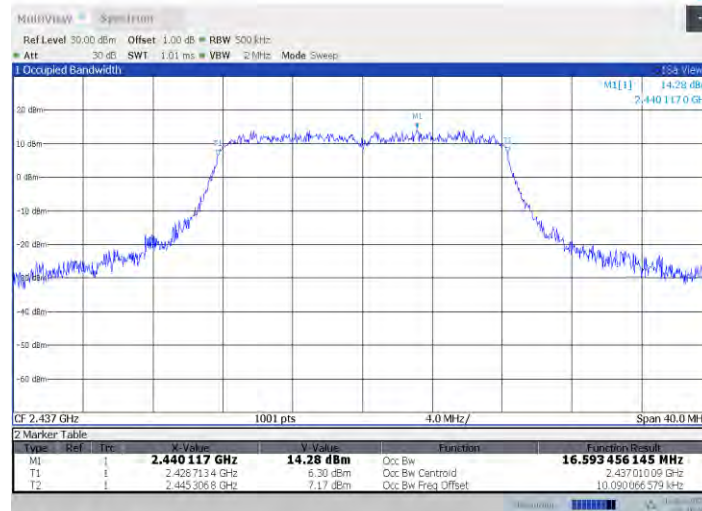
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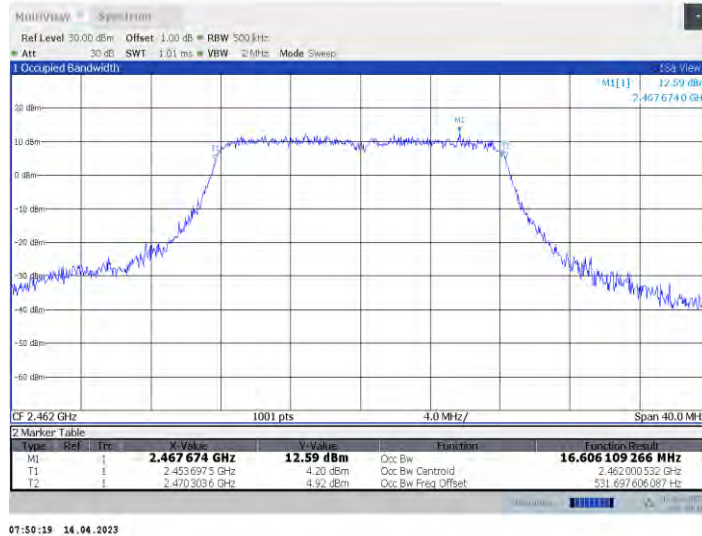
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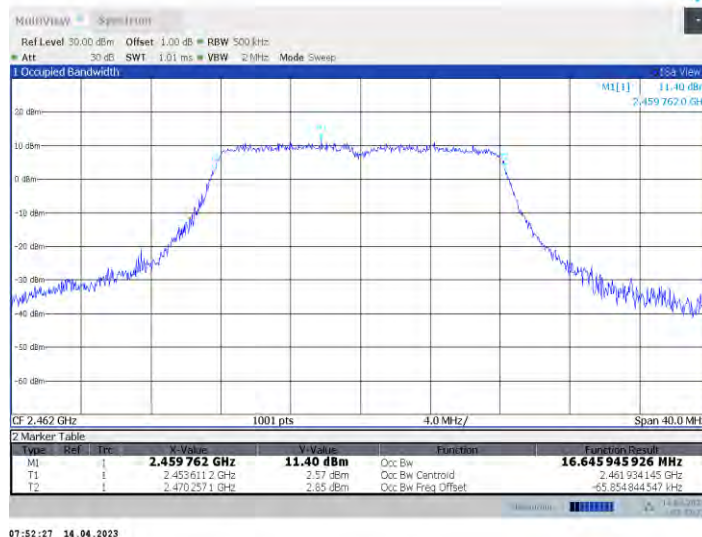
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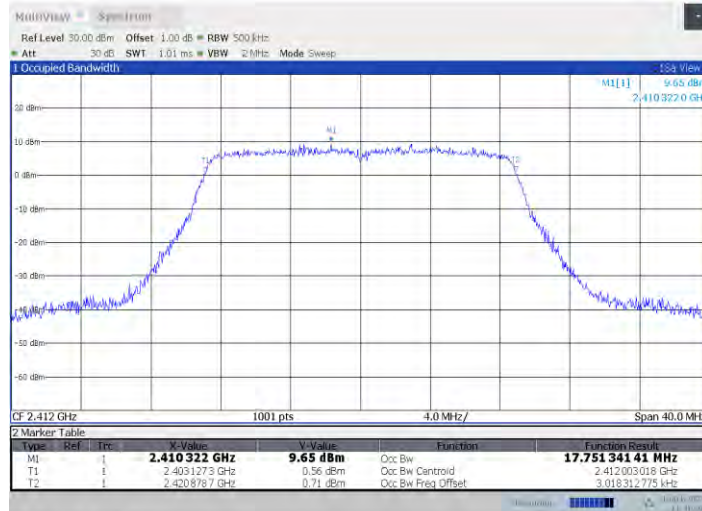
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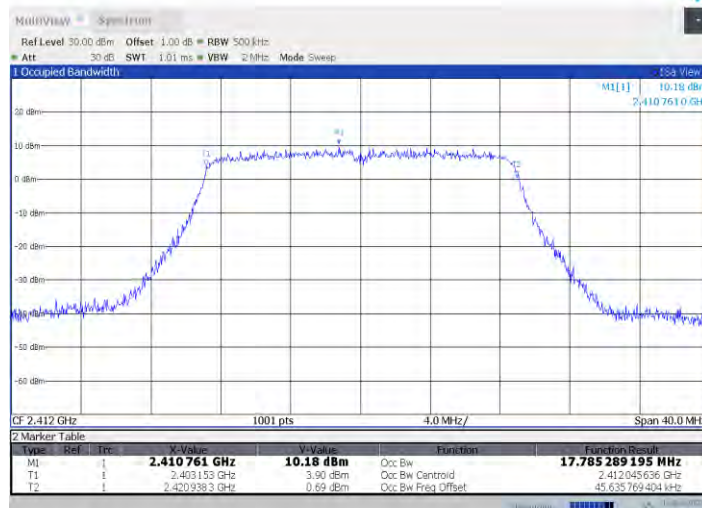
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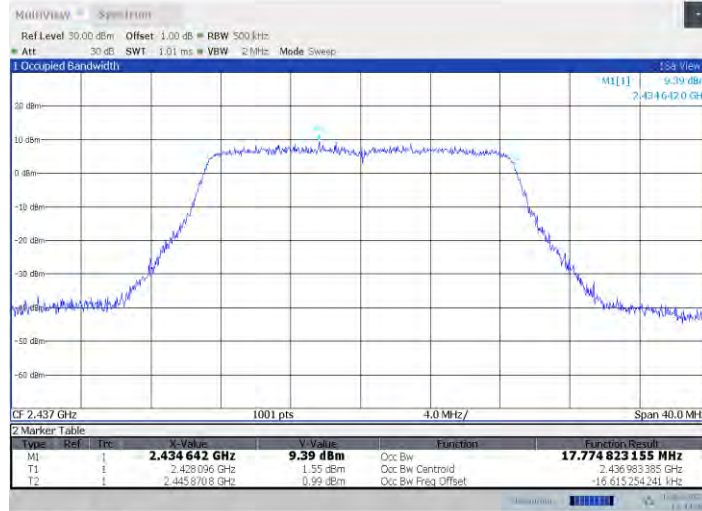
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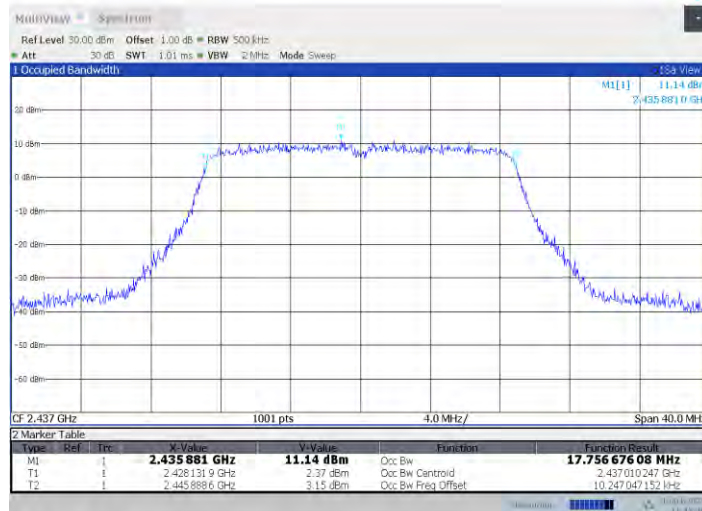
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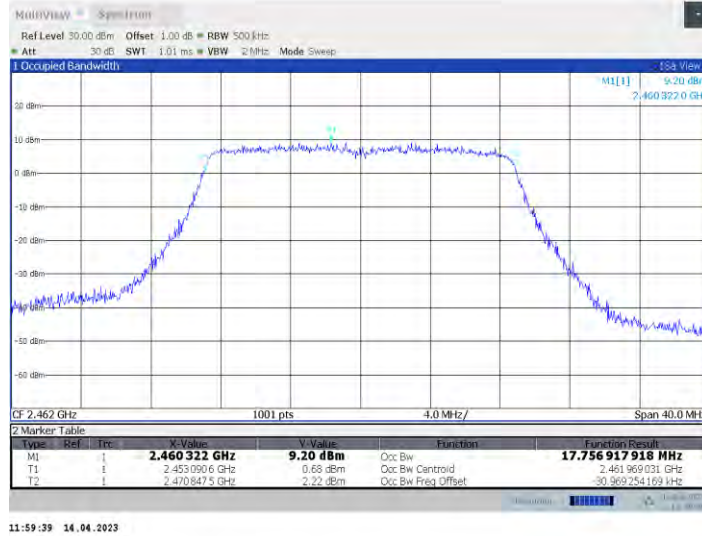
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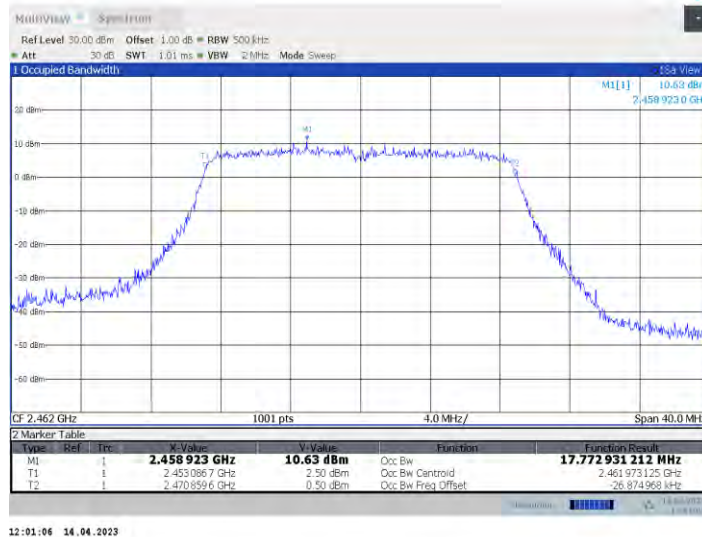
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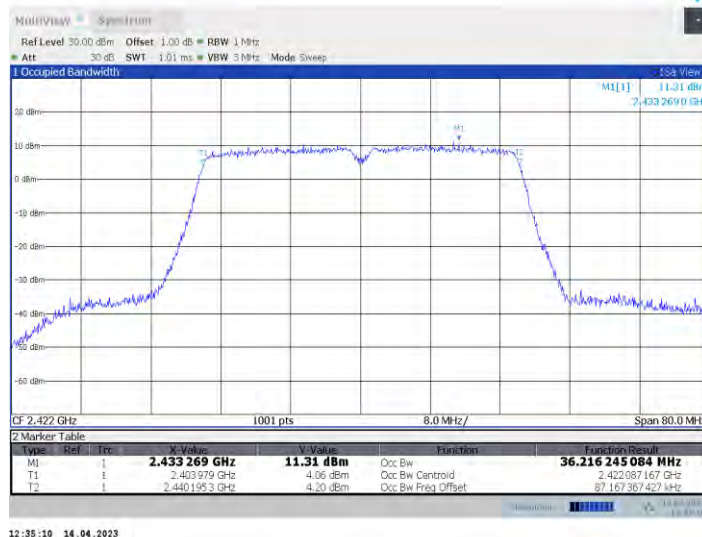
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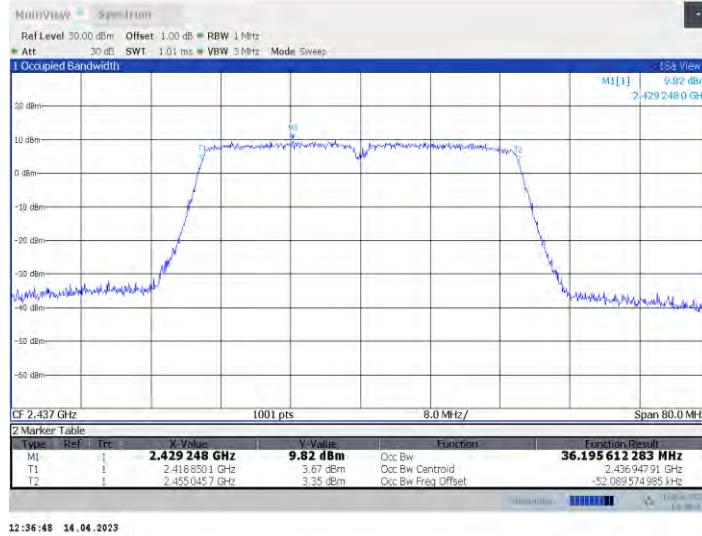
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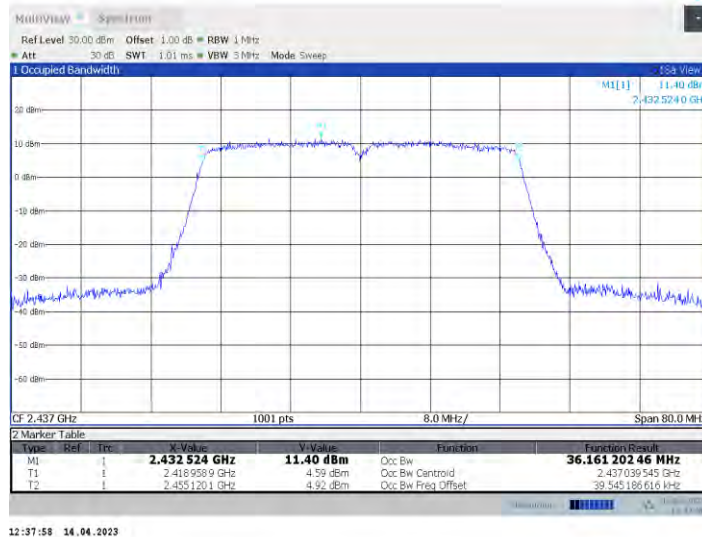
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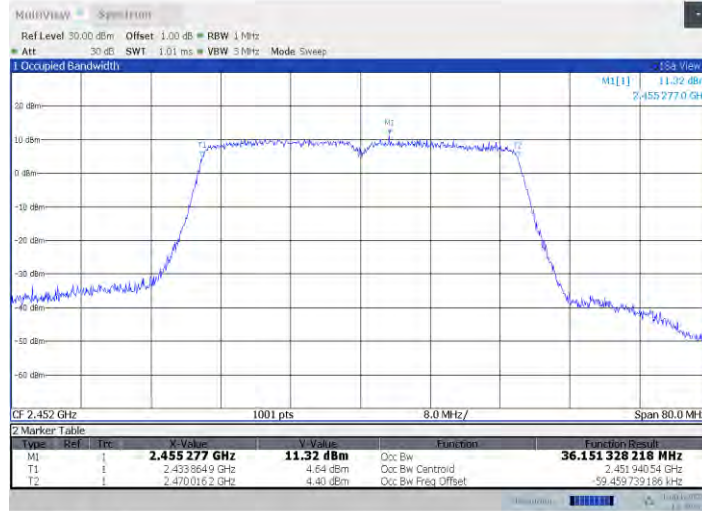
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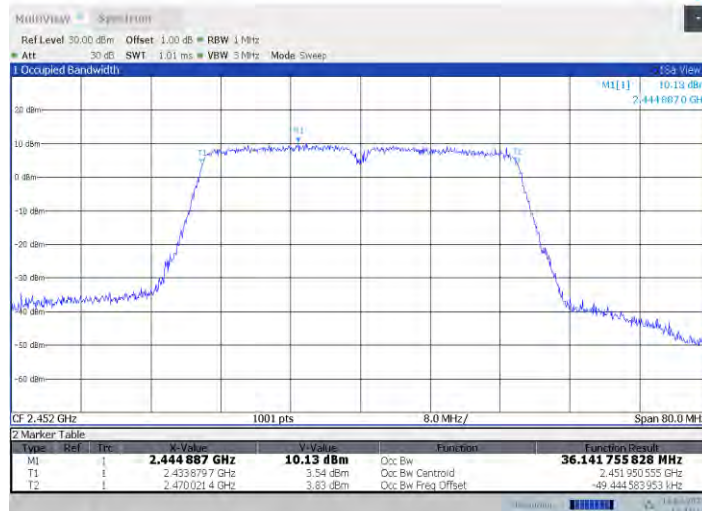
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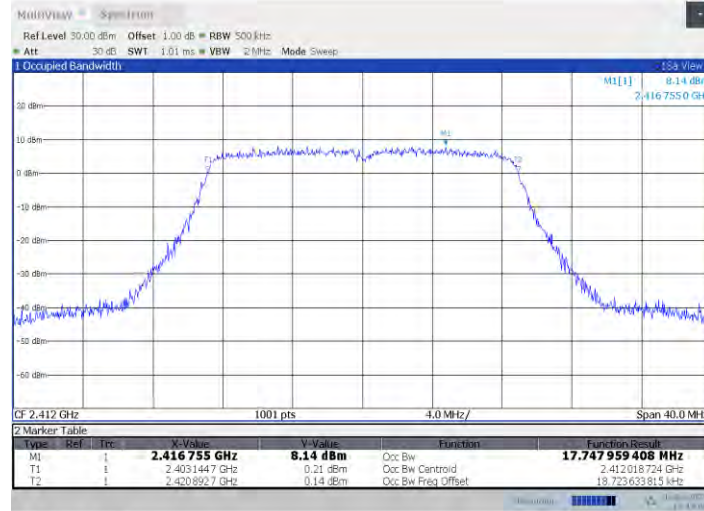
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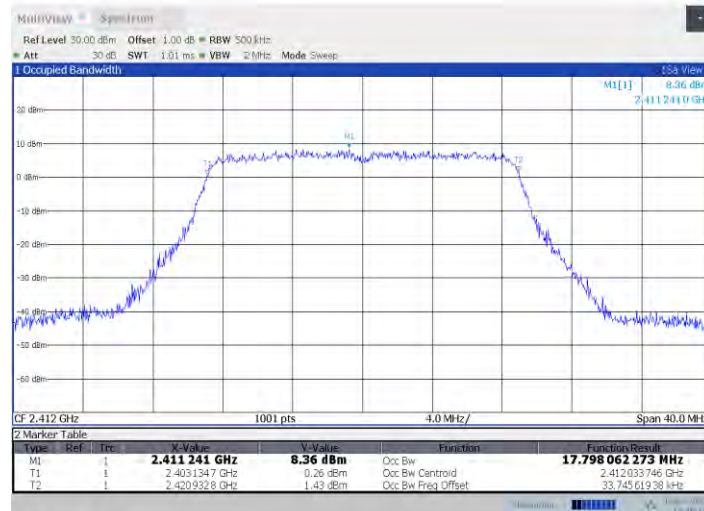
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11ax20MIMO_Ant1_2412



12:46:15 14.04.2023



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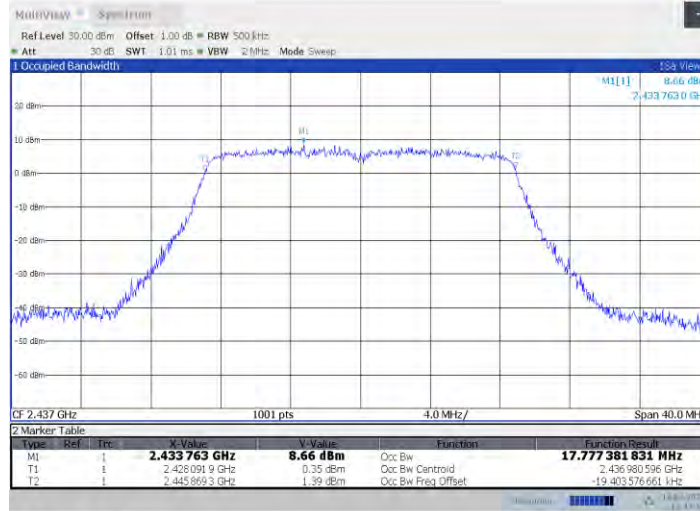
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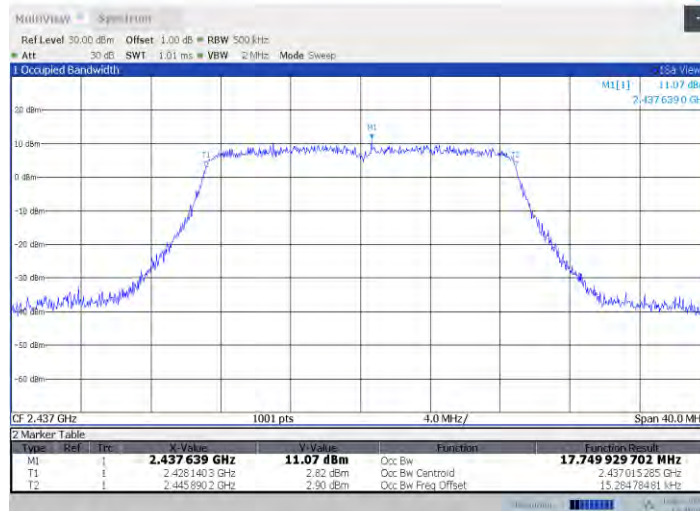
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11ax20MIMO_Ant0_2437



12:47:57 14.04.2023

11ax20MIMO_Ant1_2437



12:49:07 14.04.2023



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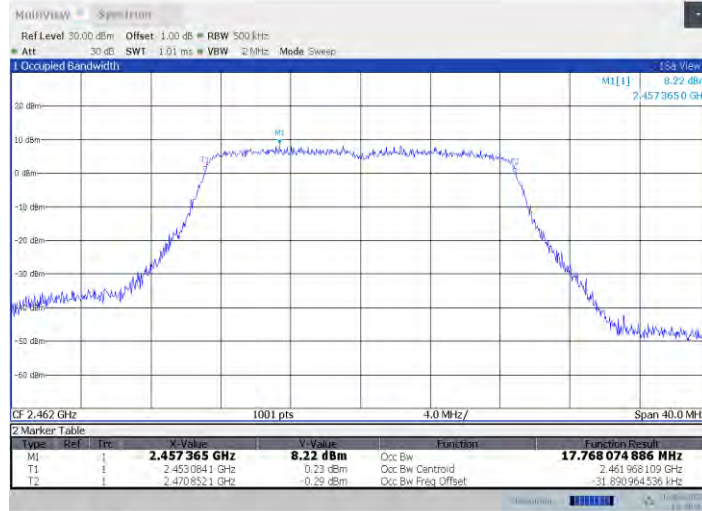
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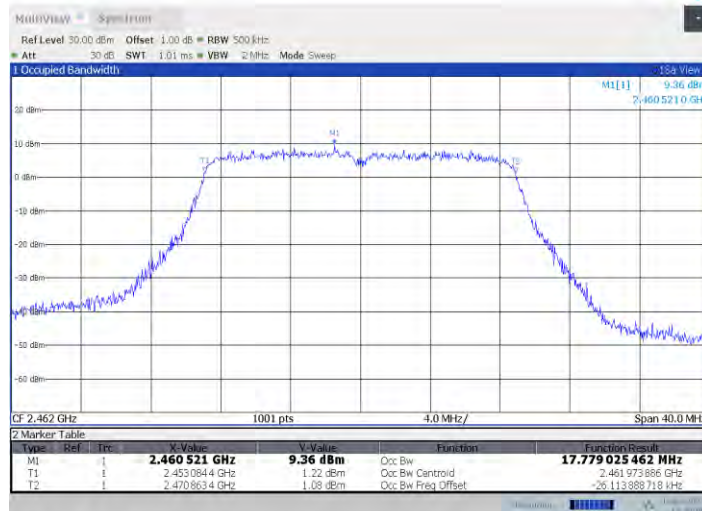
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11ax20MIMO_Ant0_2462



12:50:45 14.04.2023

11ax20MIMO_Ant1_2462



12:52:10 14.04.2023



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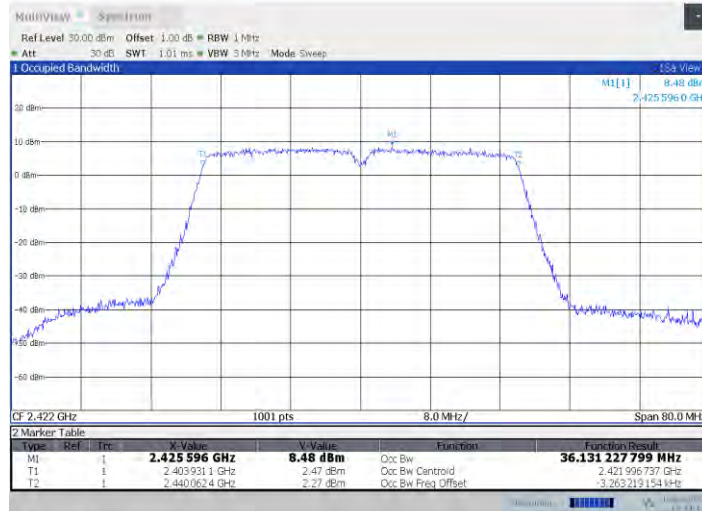
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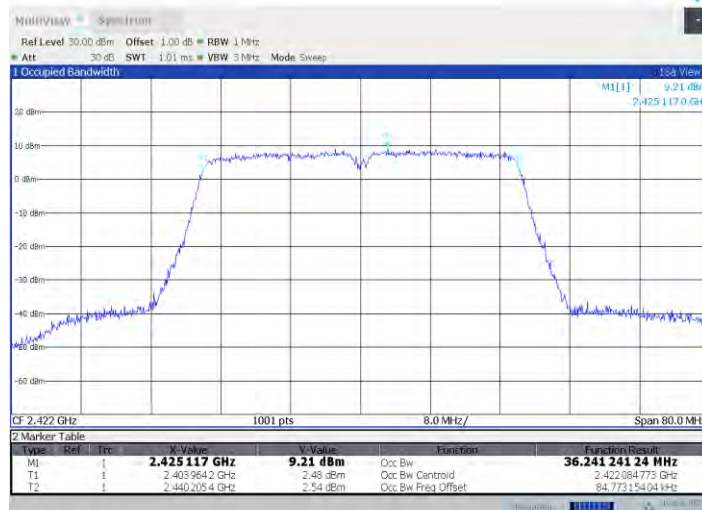
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11ax40MIMO_Ant0_2422



12:54:13 14.04.2023

11ax40MIMO_Ant1_2422



12:55:39 14.04.2023



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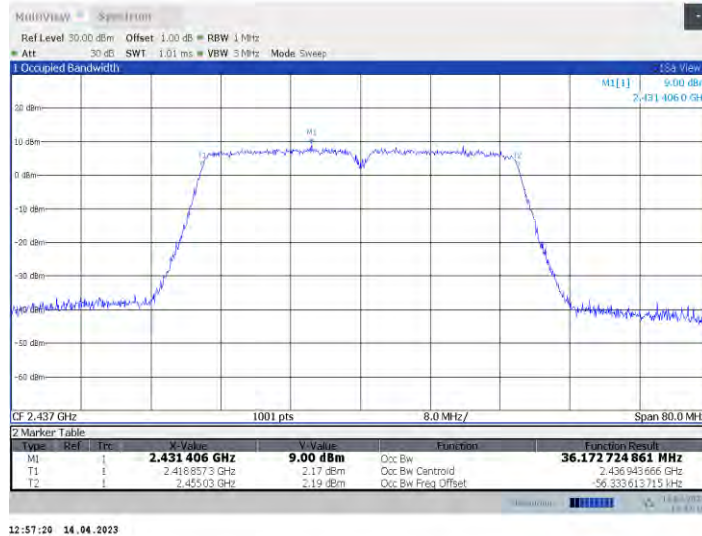
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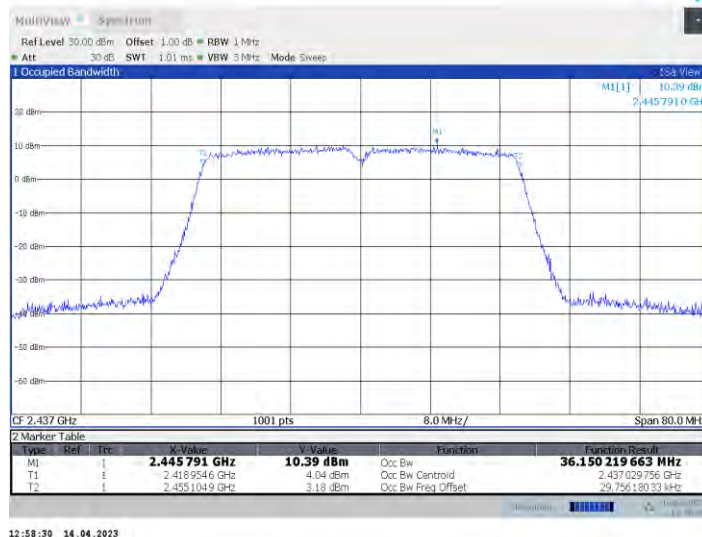
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11ax40MIMO_Ant0_2437



12:57:20 14.04.2023

11ax40MIMO_Ant1_2437



12:58:30 14.04.2023



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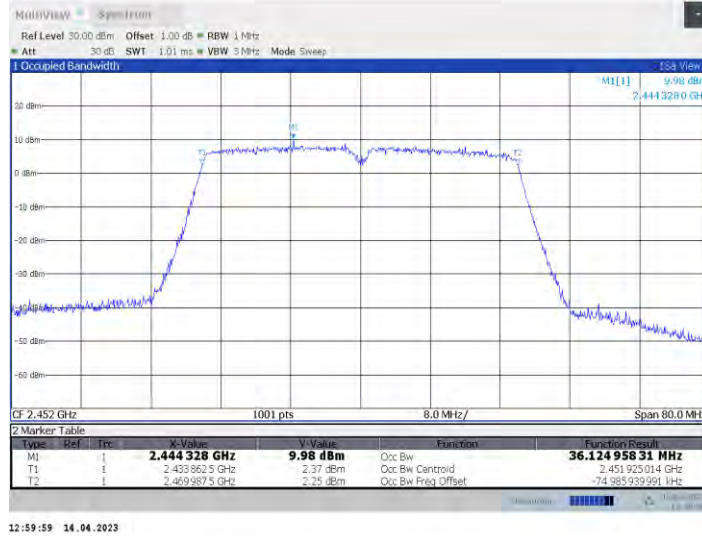
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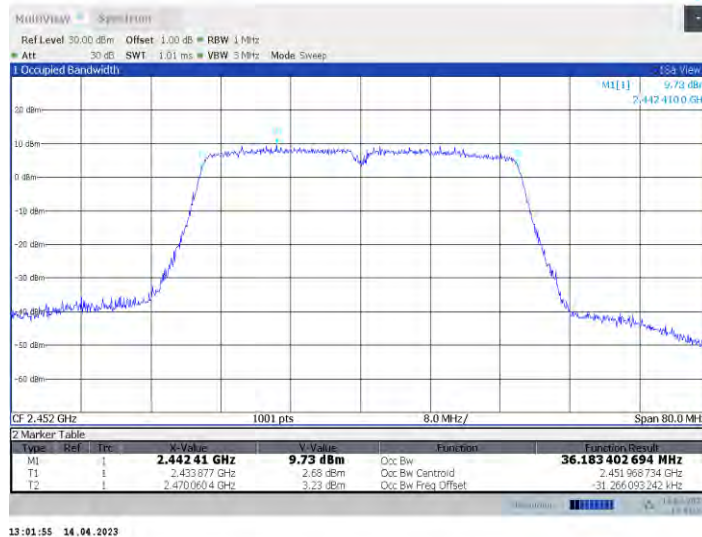
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11ax40MIMO_Ant0_2452



11ax40MIMO_Ant1_2452



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Maximum conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b-CDD	Ant0	2412	19.38	≤30.00	PASS
	Ant1	2412	20.23	≤30.00	PASS
	total	2412	22.84	≤30.00	PASS
	Ant0	2437	19.58	≤30.00	PASS
	Ant1	2437	20.89	≤30.00	PASS
	total	2437	23.29	≤30.00	PASS
	Ant0	2462	19.47	≤30.00	PASS
	Ant1	2462	20.23	≤30.00	PASS
	total	2462	22.88	≤30.00	PASS
11g-CDD	Ant0	2412	24.59	≤30.00	PASS
	Ant1	2412	24.56	≤30.00	PASS
	total	2412	27.59	≤30.00	PASS
	Ant0	2437	24.51	≤30.00	PASS
	Ant1	2437	24.78	≤30.00	PASS
	total	2437	27.66	≤30.00	PASS
	Ant0	2462	24.32	≤30.00	PASS
	Ant1	2462	24.59	≤30.00	PASS
	total	2462	27.47	≤30.00	PASS
11n20MIMO	Ant0	2412	23.63	≤30.00	PASS
	Ant1	2412	23.62	≤30.00	PASS
	total	2412	26.64	≤30.00	PASS
	Ant0	2437	23.65	≤30.00	PASS
	Ant1	2437	24.01	≤30.00	PASS
	total	2437	26.84	≤30.00	PASS
	Ant0	2462	23.64	≤30.00	PASS
	Ant1	2462	23.63	≤30.00	PASS
	total	2462	26.65	≤30.00	PASS
11n40MIMO	Ant0	2422	22.98	≤30.00	PASS
	Ant1	2422	23.12	≤30.00	PASS
	total	2422	26.06	≤30.00	PASS
	Ant0	2437	22.99	≤30.00	PASS
	Ant1	2437	23.23	≤30.00	PASS
	total	2437	26.12	≤30.00	PASS
	Ant0	2452	22.87	≤30.00	PASS
	Ant1	2452	23.01	≤30.00	PASS
	total	2452	25.95	≤30.00	PASS
11ax20MIMO	Ant0	2412	23.26	≤30.00	PASS
	Ant1	2412	23.49	≤30.00	PASS
	total	2412	26.39	≤30.00	PASS
	Ant0	2437	23.26	≤30.00	PASS
	Ant1	2437	23.88	≤30.00	PASS
	total	2437	26.59	≤30.00	PASS
	Ant0	2462	23.31	≤30.00	PASS
	Ant1	2462	23.51	≤30.00	PASS
	total	2462	26.42	≤30.00	PASS
11ax40MIMO	Ant0	2422	22.87	≤30.00	PASS
	Ant1	2422	23.12	≤30.00	PASS
	total	2422	26.01	≤30.00	PASS
	Ant0	2437	22.81	≤30.00	PASS
	Ant1	2437	23.26	≤30.00	PASS



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	total	2437	26.05	≤30.00	PASS
	Ant0	2452	22.79	≤30.00	PASS
	Ant1	2452	23.16	≤30.00	PASS
	total	2452	25.99	≤30.00	PASS



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Test Result for AX Part RU

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11ax20MIM O	Ant0	2412	26Tone	RU0	22.43	≤30.00	PASS
			52Tone	RU37	23.63	≤30.00	PASS
			106Tone	RU53	23.02	≤30.00	PASS
	Ant1	2412	26Tone	RU0	22.71	≤30.00	PASS
			52Tone	RU37	23.80	≤30.00	PASS
			106Tone	RU53	22.95	≤30.00	PASS
	total	2412	26Tone	RU0	25.58	≤30.00	PASS
			52Tone	RU37	25.73	≤30.00	PASS
			106Tone	RU53	26.00	≤30.00	PASS
	Ant0	2437	26Tone	RU4	22.21	≤30.00	PASS
			52Tone	RU39	23.60	≤30.00	PASS
			106Tone	RU53	22.78	≤30.00	PASS
	Ant1	2437	26Tone	RU4	23.88	≤30.00	PASS
			52Tone	RU39	22.43	≤30.00	PASS
			106Tone	RU53	22.77	≤30.00	PASS
	total	2437	26Tone	RU4	26.14	≤30.00	PASS
			52Tone	RU39	26.06	≤30.00	PASS
			106Tone	RU53	25.79	≤30.00	PASS
	Ant0	2462	26Tone	RU8	22.45	≤30.00	PASS
			52Tone	RU40	23.17	≤30.00	PASS
			106Tone	RU54	23.18	≤30.00	PASS
	Ant1	2462	26Tone	RU8	22.75	≤30.00	PASS
			52Tone	RU40	23.49	≤30.00	PASS
			106Tone	RU54	23.33	≤30.00	PASS
	total	2462	26Tone	RU8	25.61	≤30.00	PASS
			52Tone	RU40	26.34	≤30.00	PASS
			106Tone	RU54	26.27	≤30.00	PASS
11ax40MIM O	Ant0	2422	242Tone	RU61	22.78	≤30.00	PASS
	Ant1	2422	242Tone	RU61	22.70	≤30.00	PASS
	total	2422	242Tone	RU61	25.75	≤30.00	PASS
	Ant0	2437	242Tone	RU61	22.62	≤30.00	PASS
	Ant1	2437	242Tone	RU61	22.38	≤30.00	PASS
	total	2437	242Tone	RU61	26.60	≤30.00	PASS
	Ant0	2452	242Tone	RU62	22.30	≤30.00	PASS
	Ant1	2452	242Tone	RU62	22.84	≤30.00	PASS
	total	2452	242Tone	RU62	25.59	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b-CDD	Ant0	2412	-6.82	≤8.00	PASS
	Ant1	2412	-5.92	≤8.00	PASS
	total	2412	-3.34	≤8.00	PASS
	Ant0	2437	-5.9	≤8.00	PASS
	Ant1	2437	-3.33	≤8.00	PASS
	total	2437	-1.42	≤8.00	PASS
	Ant0	2462	-7.2	≤8.00	PASS
	Ant1	2462	-5.78	≤8.00	PASS
	total	2462	-3.42	≤8.00	PASS
11g-CDD	Ant0	2412	-8.76	≤8.00	PASS
	Ant1	2412	-7.84	≤8.00	PASS
	total	2412	-5.27	≤8.00	PASS
	Ant0	2437	-8.91	≤8.00	PASS
	Ant1	2437	-6.43	≤8.00	PASS
	total	2437	-4.49	≤8.00	PASS
	Ant0	2462	-7.33	≤8.00	PASS
	Ant1	2462	-8.43	≤8.00	PASS
	total	2462	-4.83	≤8.00	PASS
11n20MIMO	Ant0	2412	-8.22	≤8.00	PASS
	Ant1	2412	-9.86	≤8.00	PASS
	total	2412	-5.95	≤8.00	PASS
	Ant0	2437	-8.62	≤8.00	PASS
	Ant1	2437	-7.06	≤8.00	PASS
	total	2437	-4.76	≤8.00	PASS
	Ant0	2462	-8.65	≤8.00	PASS
	Ant1	2462	-9.01	≤8.00	PASS
	total	2462	-5.82	≤8.00	PASS
11n40MIMO	Ant0	2422	-12.93	≤8.00	PASS
	Ant1	2422	-12.51	≤8.00	PASS
	total	2422	-9.70	≤8.00	PASS
	Ant0	2437	-13.1	≤8.00	PASS
	Ant1	2437	-11.51	≤8.00	PASS
	total	2437	-9.22	≤8.00	PASS
	Ant0	2452	-12.24	≤8.00	PASS
	Ant1	2452	-13.22	≤8.00	PASS
	total	2452	-9.69	≤8.00	PASS
11ax20MIMO	Ant0	2412	-10.5	≤8.00	PASS
	Ant1	2412	-9.3	≤8.00	PASS
	total	2412	-6.85	≤8.00	PASS
	Ant0	2437	-11.09	≤8.00	PASS
	Ant1	2437	-8.89	≤8.00	PASS
	total	2437	-6.84	≤8.00	PASS
	Ant0	2462	-10.15	≤8.00	PASS
	Ant1	2462	-9.45	≤8.00	PASS
	total	2462	-6.78	≤8.00	PASS
11ax40MIMO	Ant0	2422	-13.91	≤8.00	PASS
	Ant1	2422	-13.09	≤8.00	PASS
	total	2422	-10.47	≤8.00	PASS
	Ant0	2437	-13.84	≤8.00	PASS
	Ant1	2437	-12.16	≤8.00	PASS



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	total	2437	-9.91	≤8.00	PASS
	Ant0	2452	-13.15	≤8.00	PASS
	Ant1	2452	-14	≤8.00	PASS
	total	2452	-10.54	≤8.00	PASS



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Test Result for AX Part RU

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11ax20MIMO	Ant0	2412	26Tone	RU0	-2.94	≤8.00	PASS
			52Tone	RU37	-4.8	≤8.00	PASS
			106Tone	RU53	-7.58	≤8.00	PASS
	Ant1	2412	26Tone	RU0	-3.65	≤8.00	PASS
			52Tone	RU37	-4.87	≤8.00	PASS
			106Tone	RU53	-8.46	≤8.00	PASS
	total	2412	26Tone	RU0	-0.27	≤8.00	PASS
			52Tone	RU37	-1.82	≤8.00	PASS
			106Tone	RU53	-4.99	≤8.00	PASS
	Ant0	2437	26Tone	RU4	-2.72	≤8.00	PASS
			52Tone	RU39	-2.82	≤8.00	PASS
			106Tone	RU53	-7.46	≤8.00	PASS
	Ant1	2437	26Tone	RU4	-1.71	≤8.00	PASS
			52Tone	RU39	-6.38	≤8.00	PASS
			106Tone	RU53	-8.02	≤8.00	PASS
	total	2437	26Tone	RU4	0.82	≤8.00	PASS
			52Tone	RU39	-1.23	≤8.00	PASS
			106Tone	RU53	-4.72	≤8.00	PASS
	Ant0	2462	26Tone	RU8	-3.33	≤8.00	PASS
			52Tone	RU40	-6.69	≤8.00	PASS
			106Tone	RU54	-7.67	≤8.00	PASS
	Ant1	2462	26Tone	RU8	-2.32	≤8.00	PASS
			52Tone	RU40	-5.66	≤8.00	PASS
			106Tone	RU54	-7.87	≤8.00	PASS
	total	2462	26Tone	RU8	0.21	≤8.00	PASS
			52Tone	RU40	-3.13	≤8.00	PASS
			106Tone	RU54	-4.76	≤8.00	PASS
11ax40MIMO	Ant0	2422	242Tone	RU61	-12.37	≤8.00	PASS
	Ant1	2422	242Tone	RU61	-12.06	≤8.00	PASS
	total	2422	242Tone	RU61	-9.20	≤8.00	PASS
	Ant0	2437	242Tone	RU61	-13.38	≤8.00	PASS
	Ant1	2437	242Tone	RU61	-10.94	≤8.00	PASS
	total	2437	242Tone	RU61	-8.98	≤8.00	PASS
	Ant0	2452	242Tone	RU62	-12.62	≤8.00	PASS
	Ant1	2452	242Tone	RU62	-12.8	≤8.00	PASS
	total	2452	242Tone	RU62	-9.70	≤8.00	PASS



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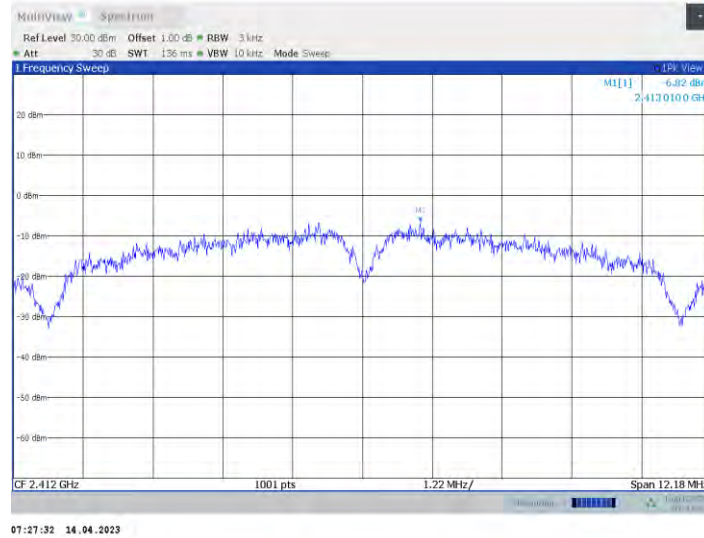
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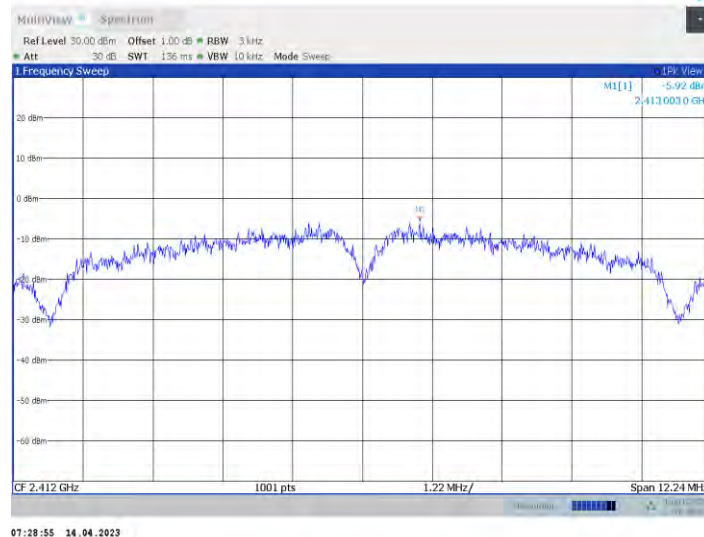
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Test Graphs

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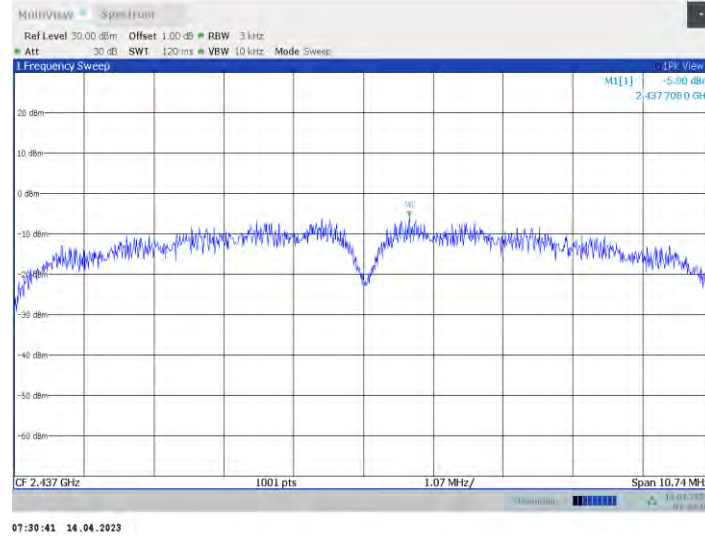
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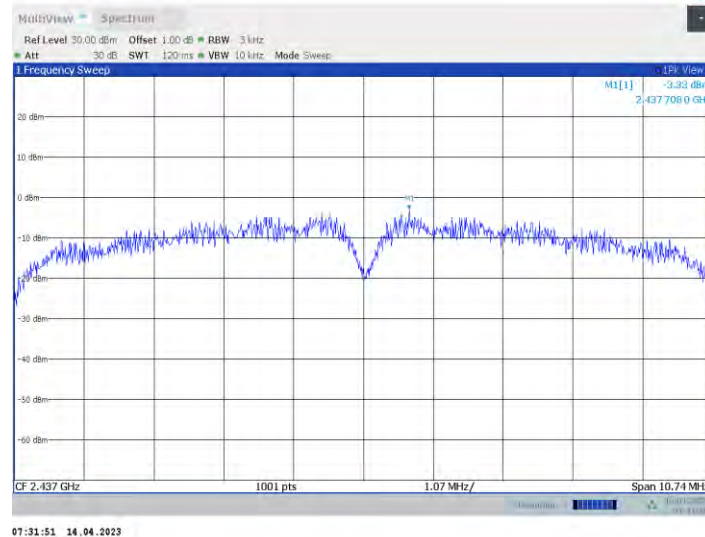
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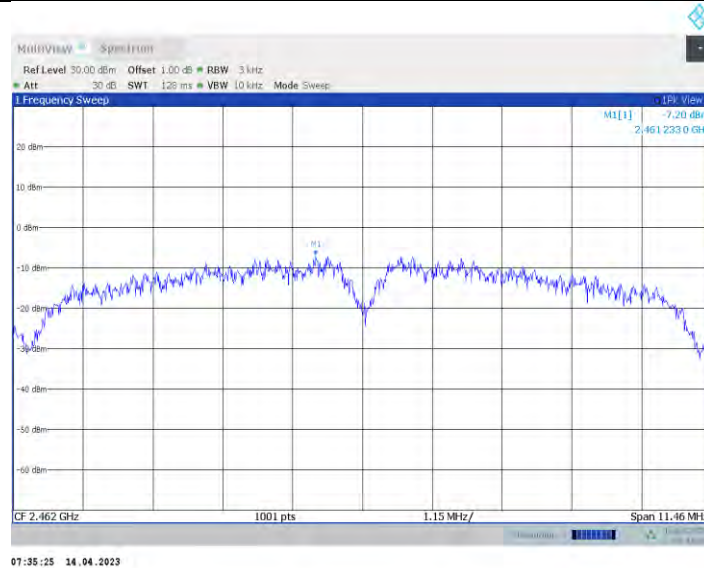
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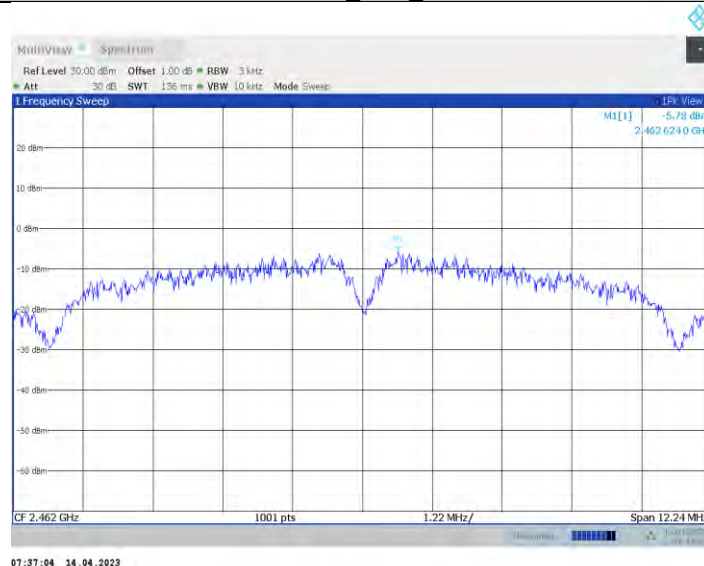
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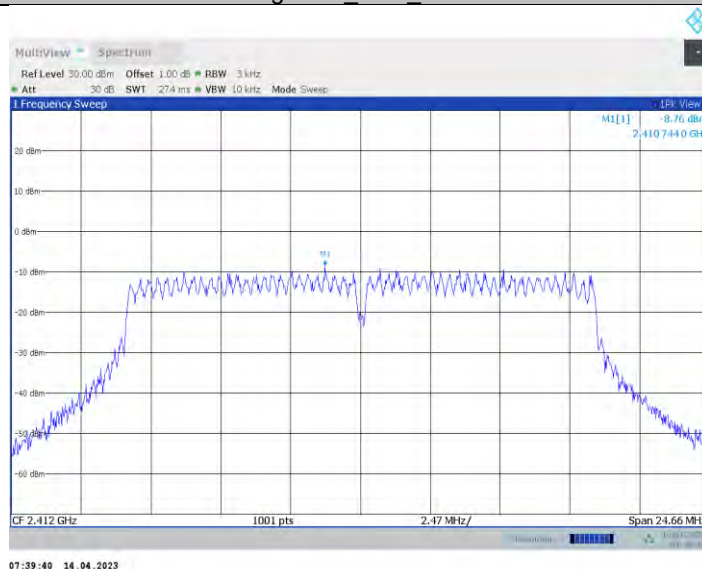
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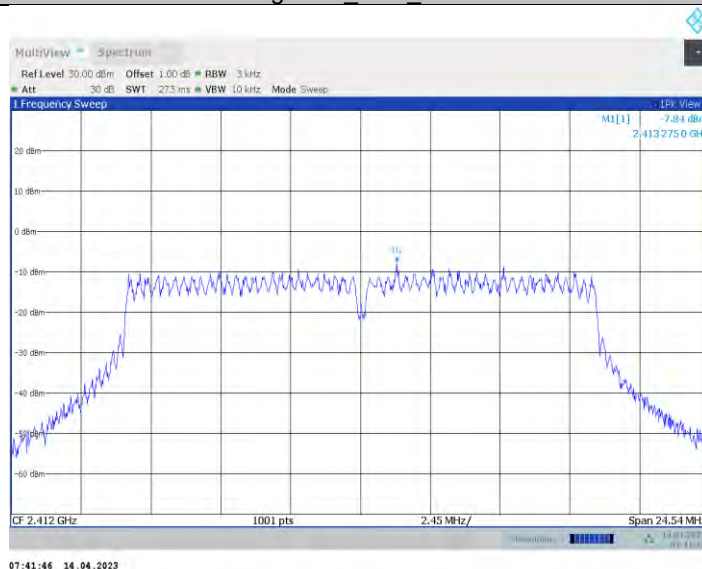
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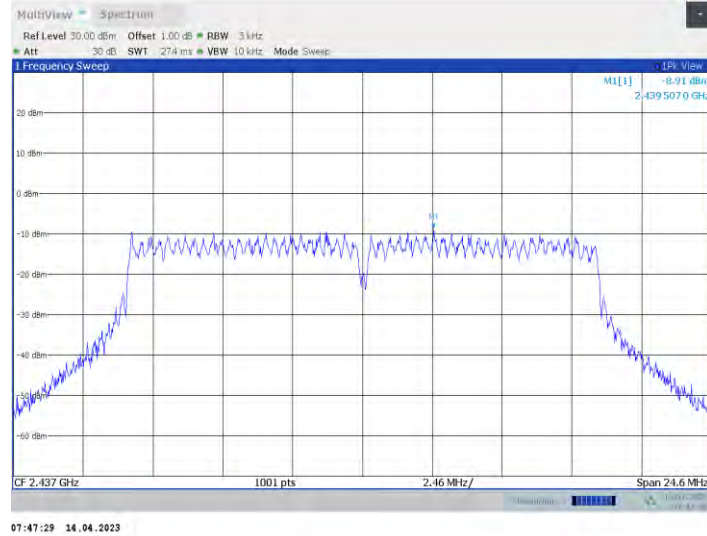
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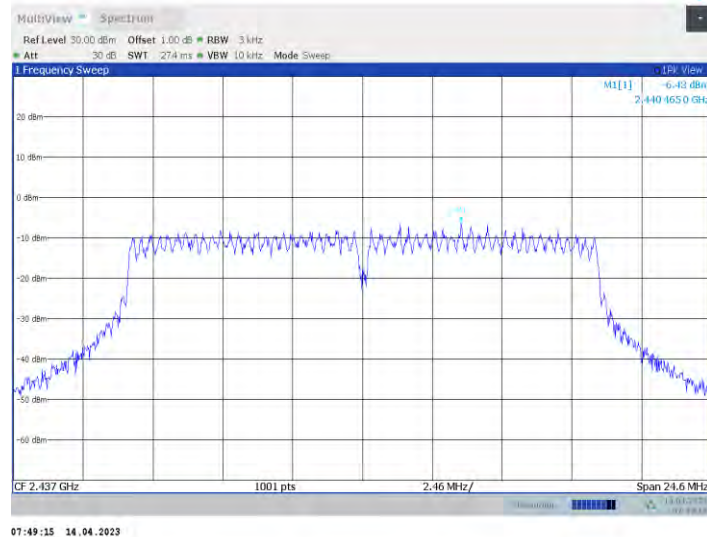
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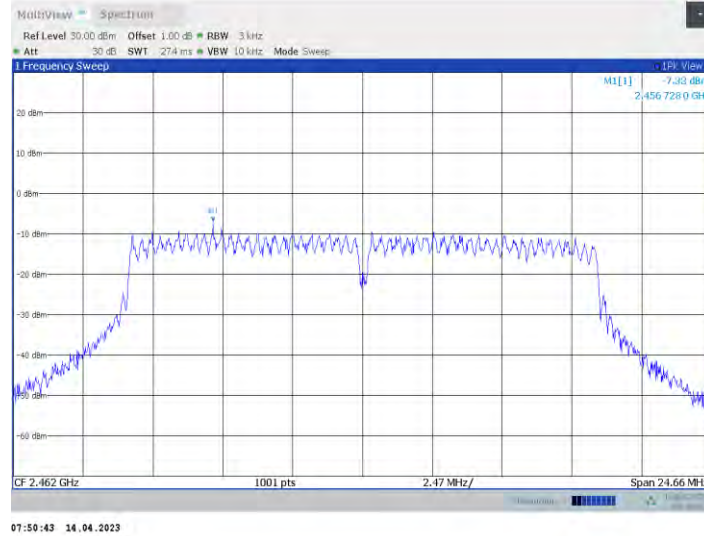
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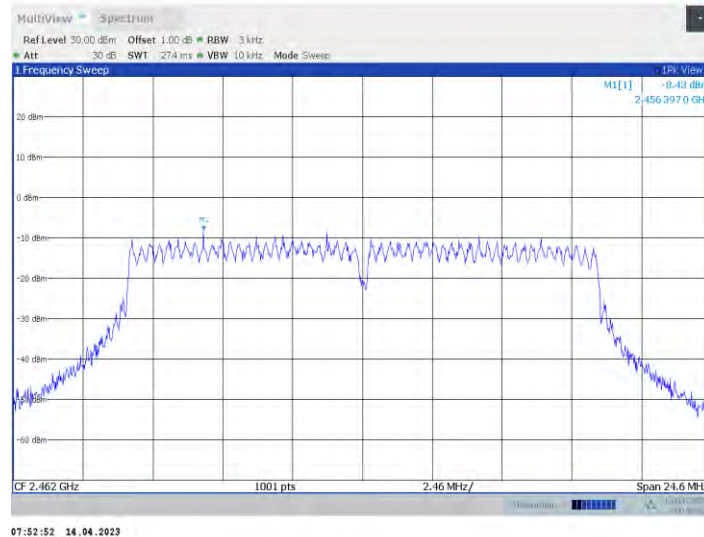
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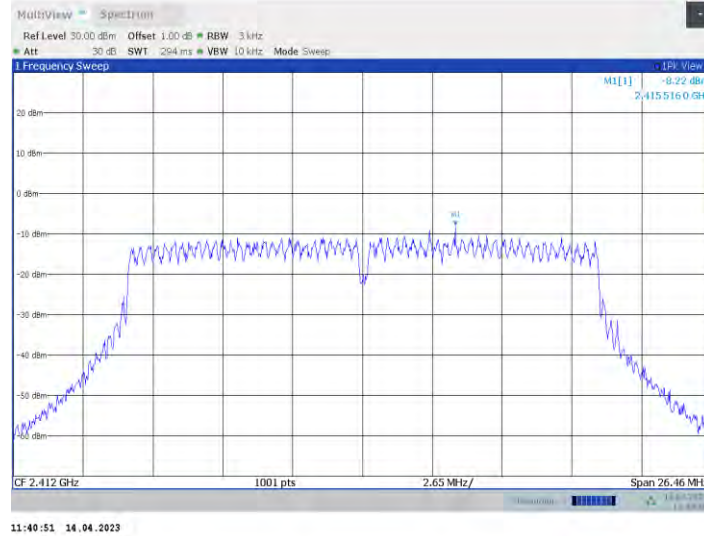
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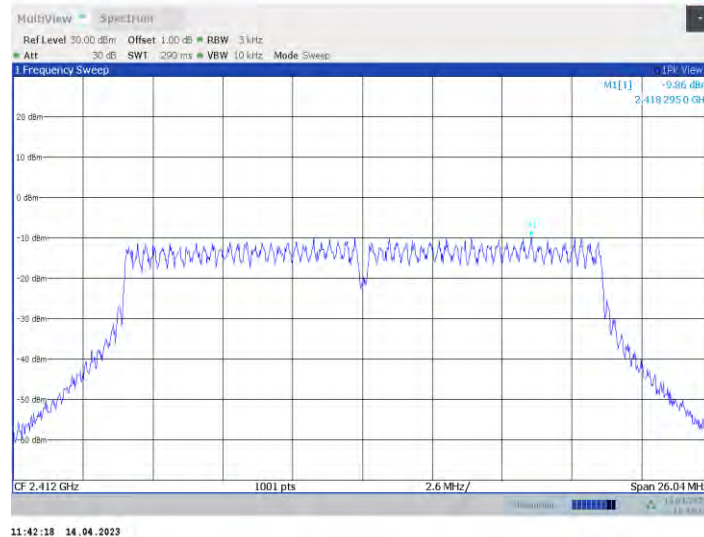
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11n20MIMO_Ant0_2412



11n20MIMO_Ant1_2412



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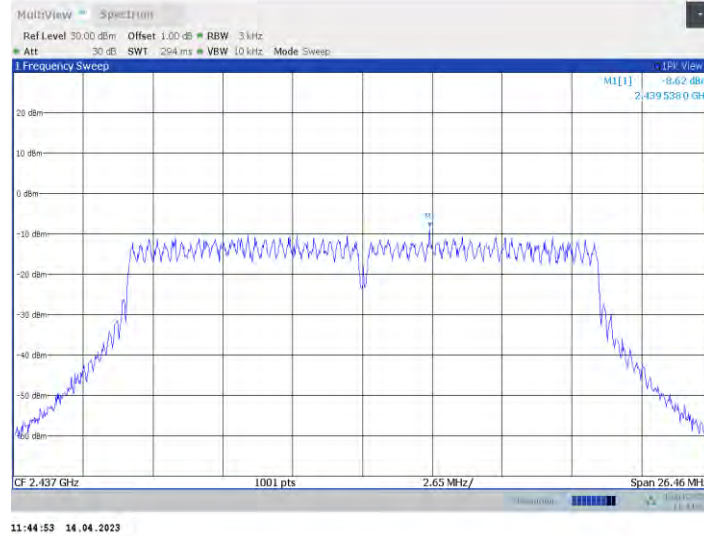
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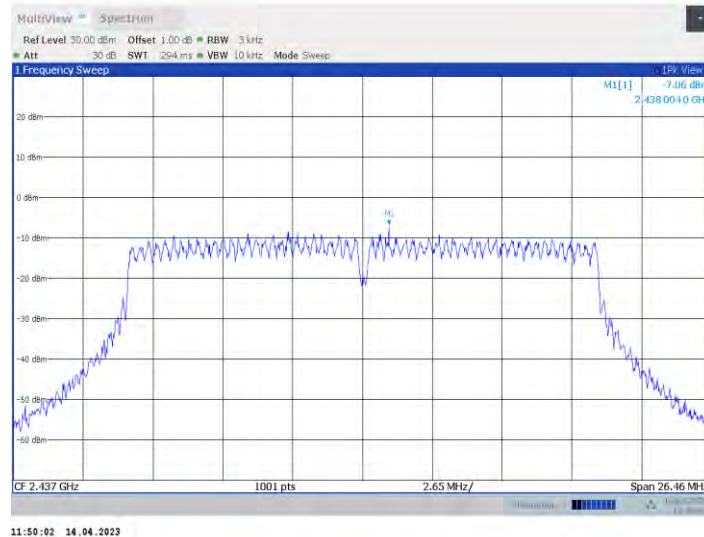
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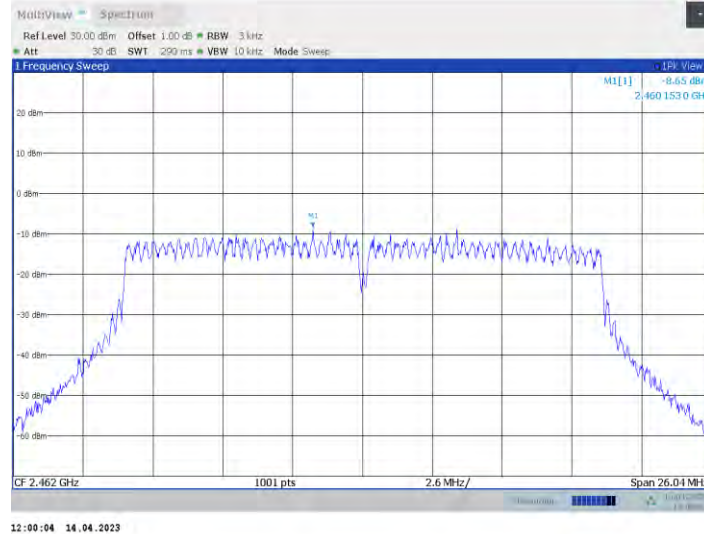
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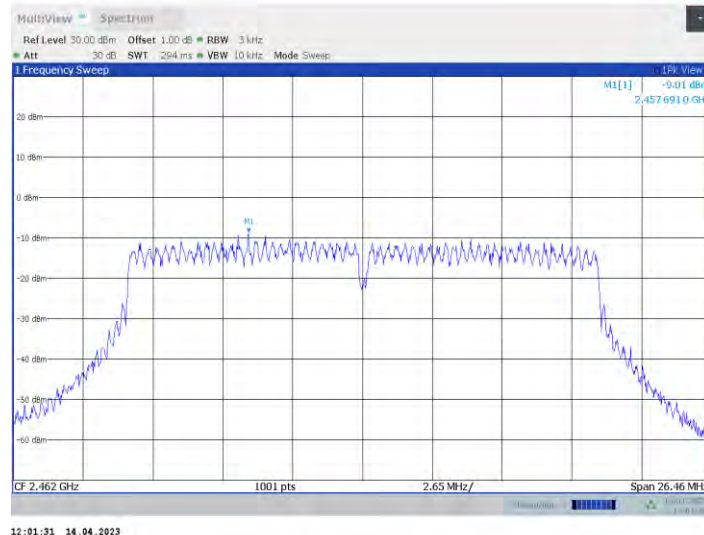
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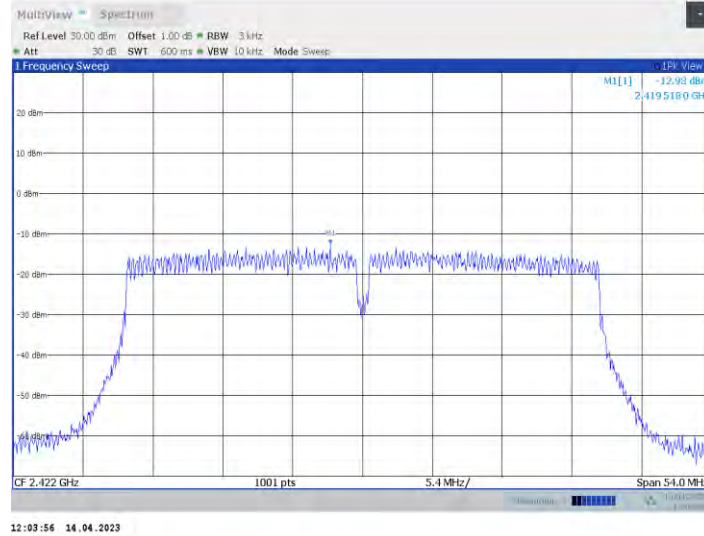
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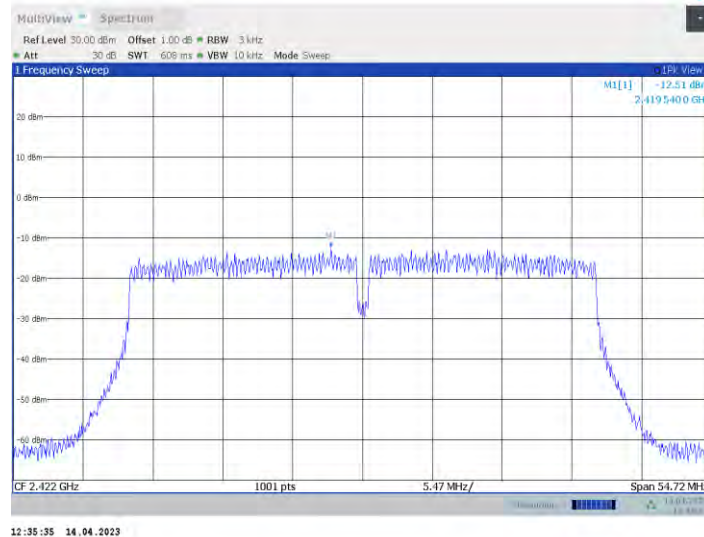
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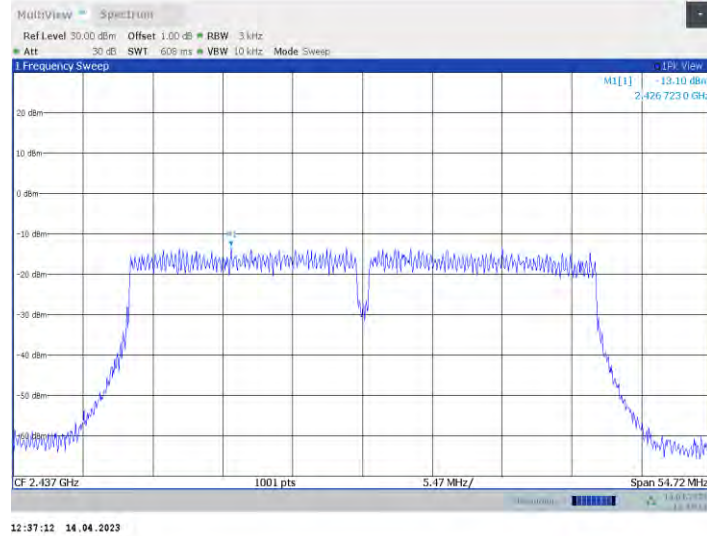
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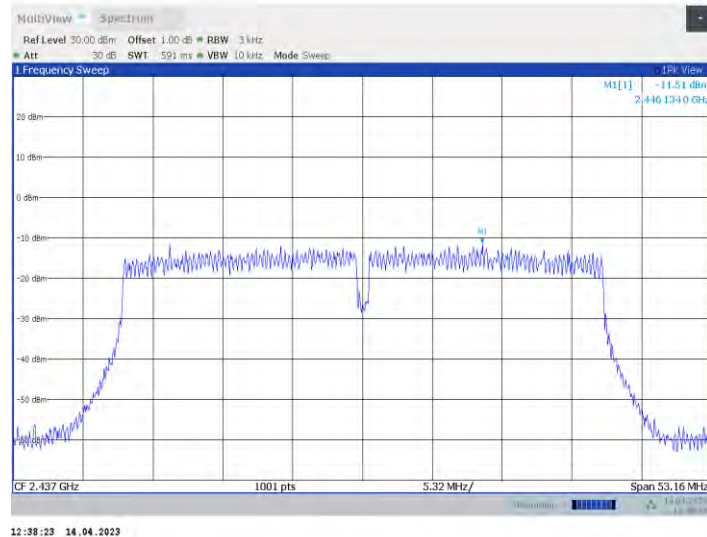
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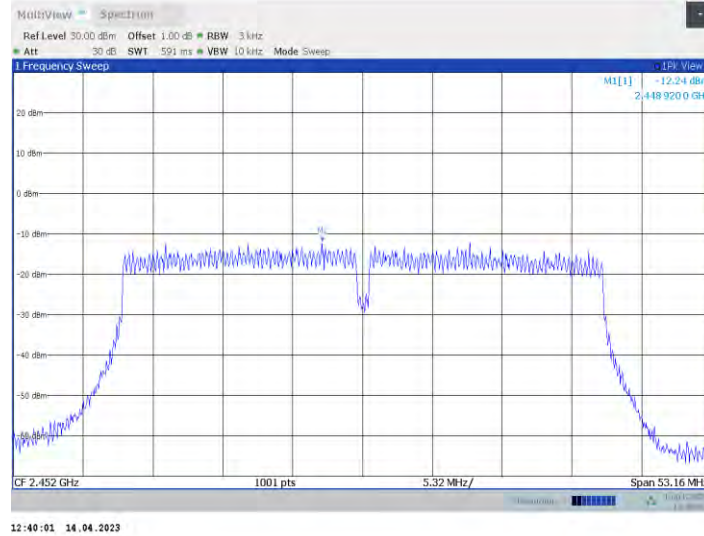
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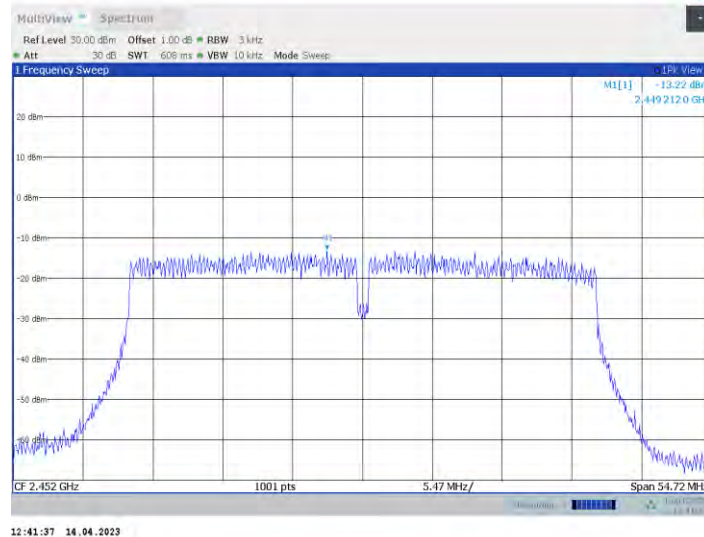
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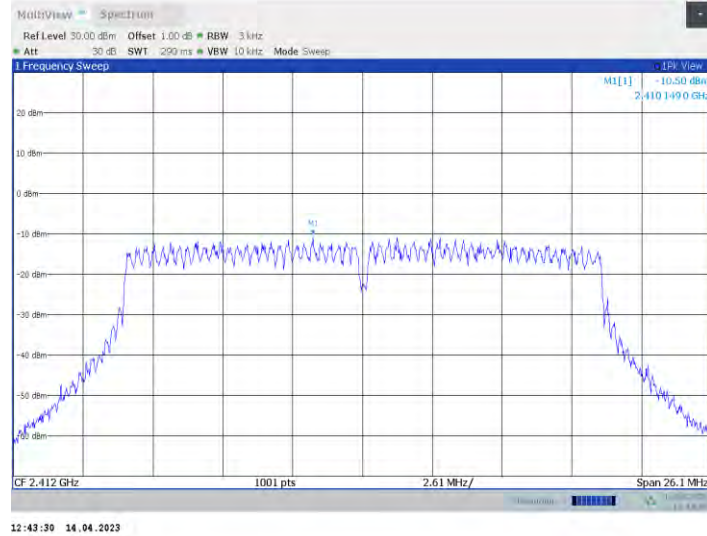
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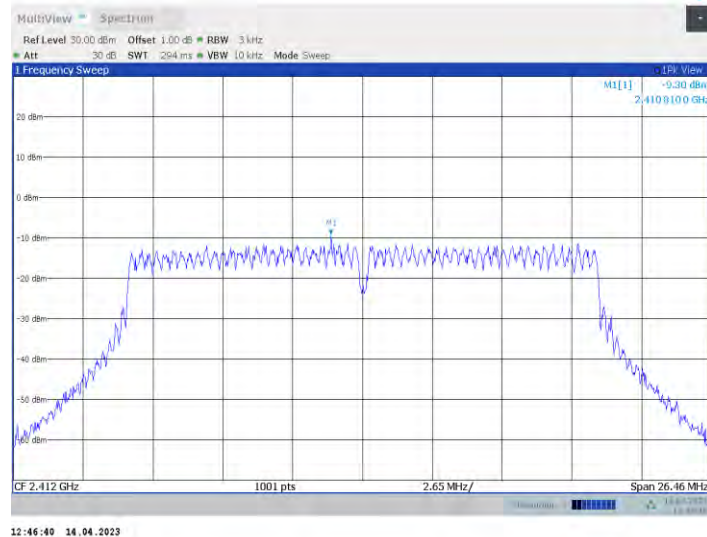
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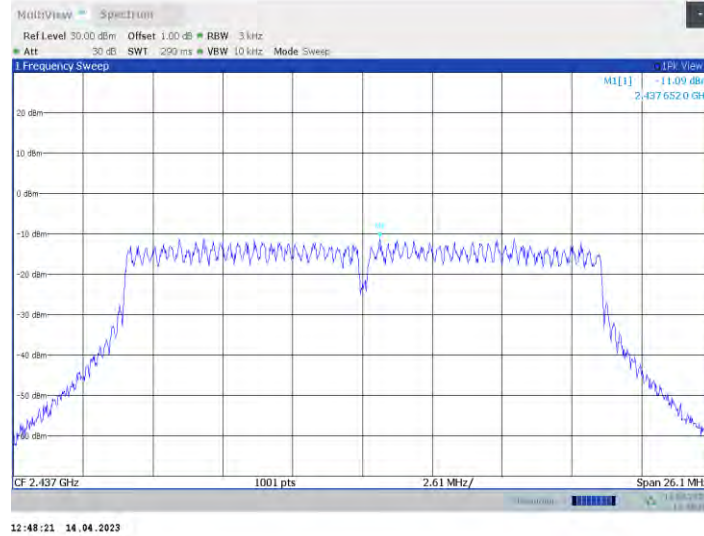
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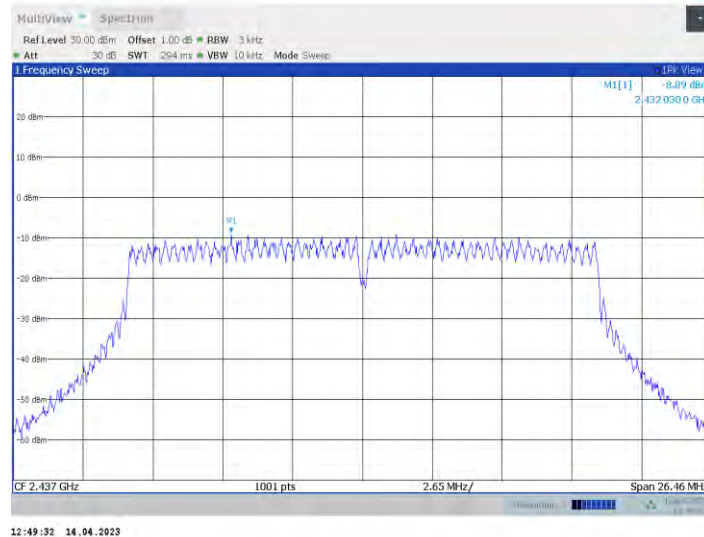
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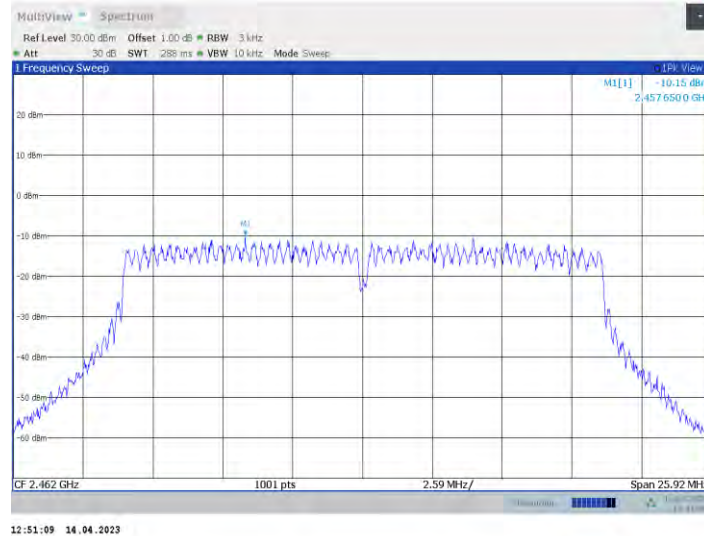
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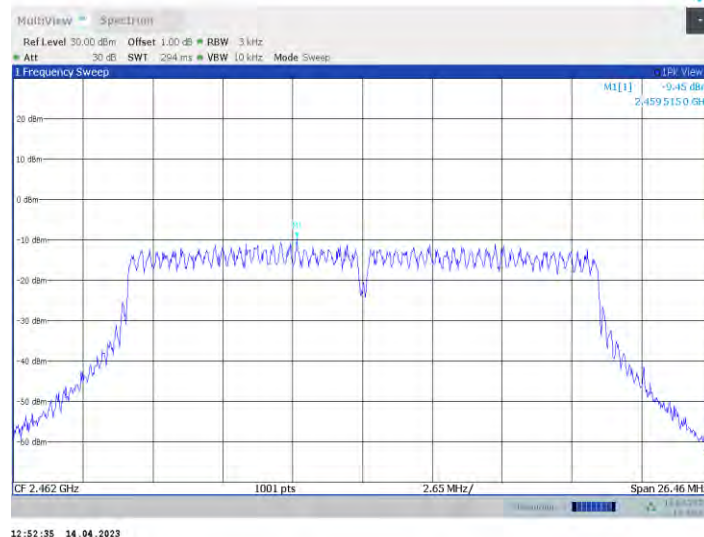
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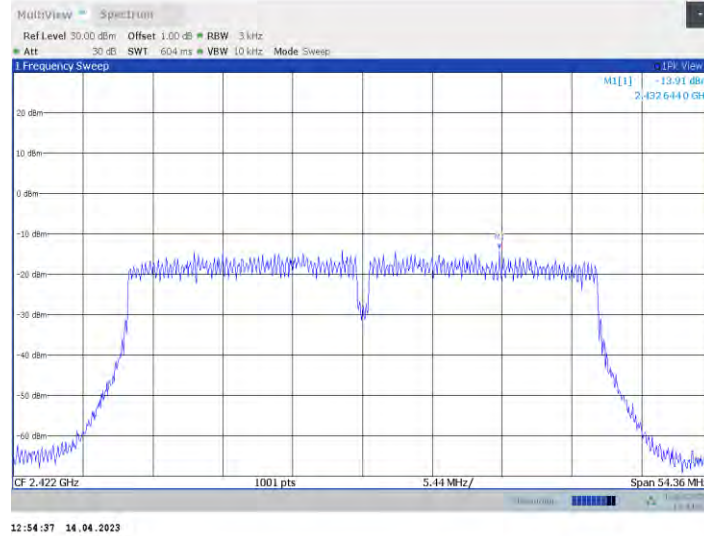
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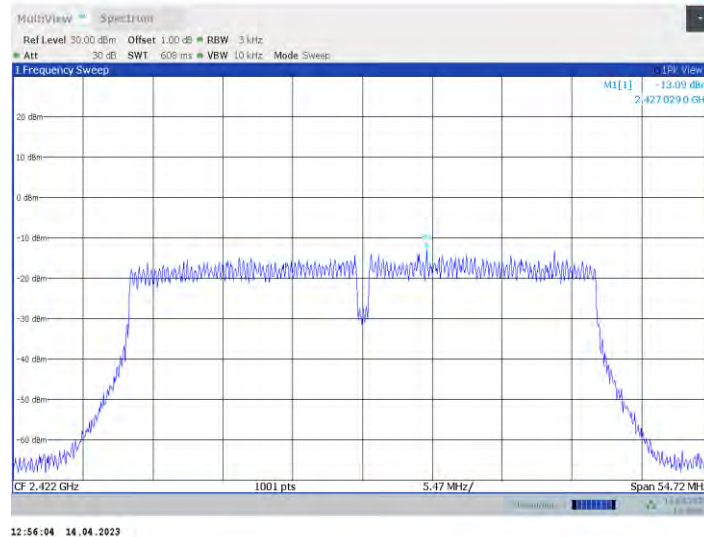
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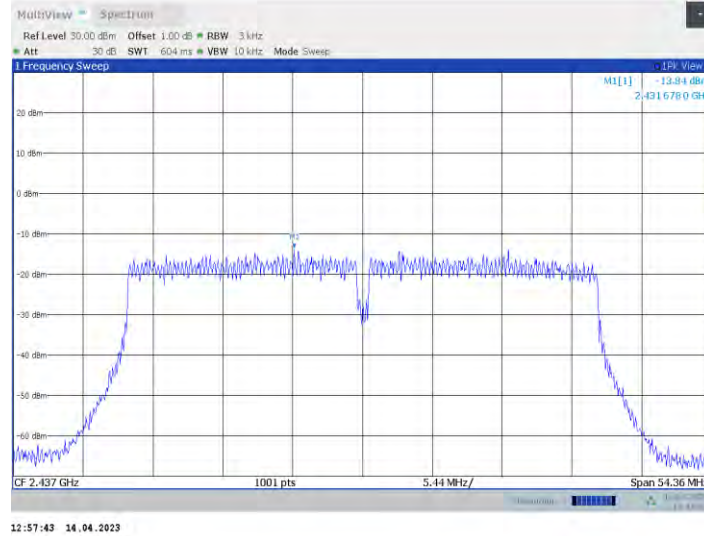
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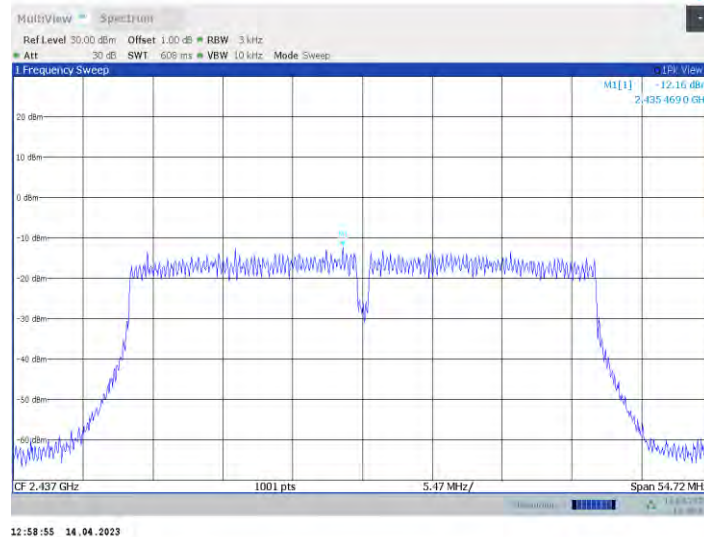
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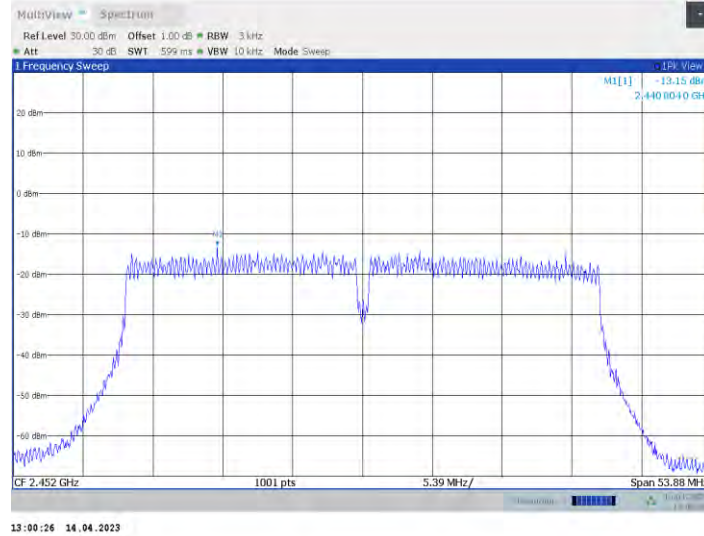
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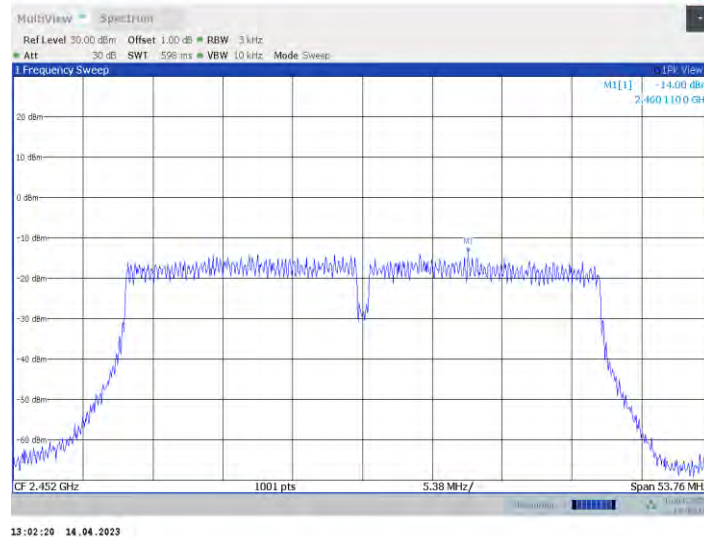
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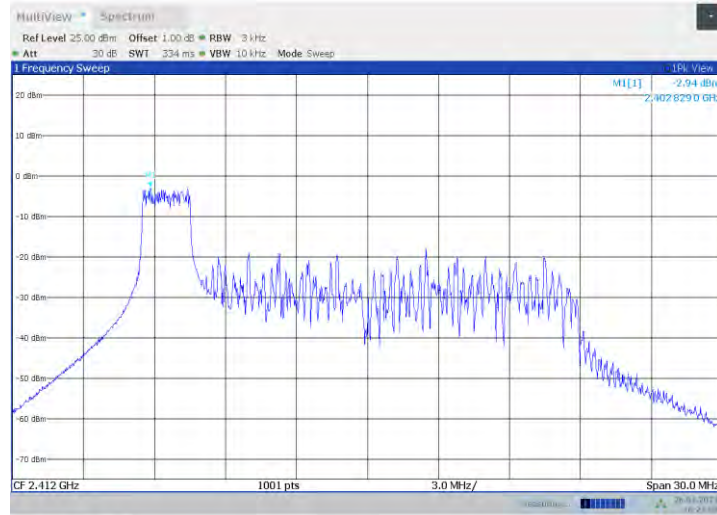
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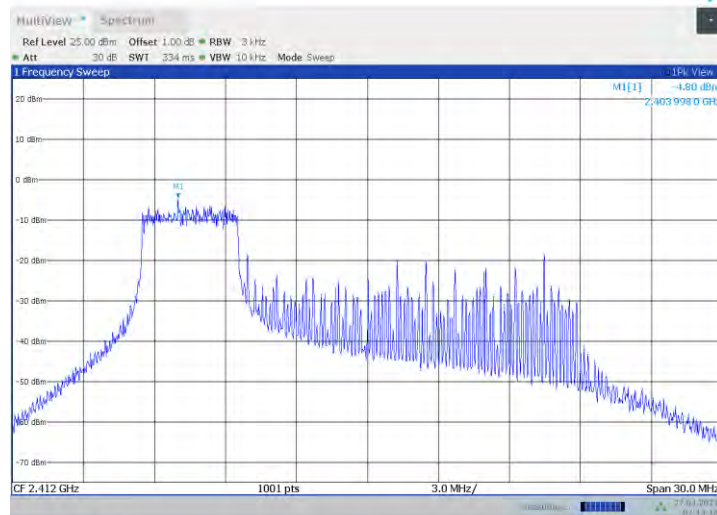
Test Graphs for AX Part RU

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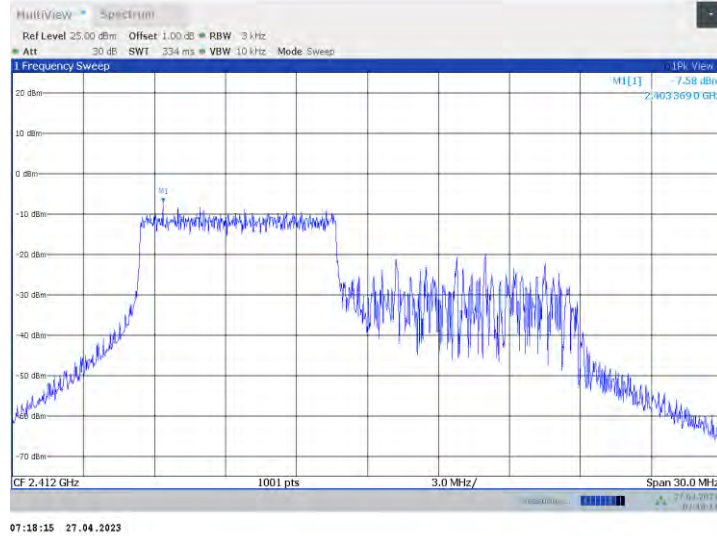
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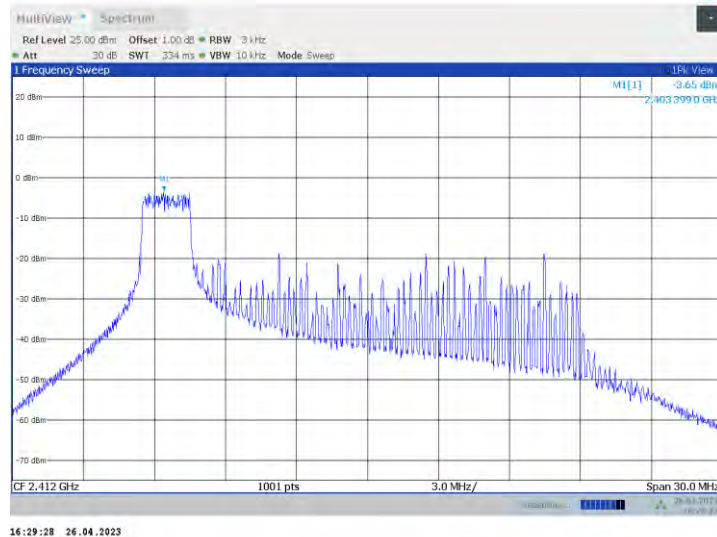
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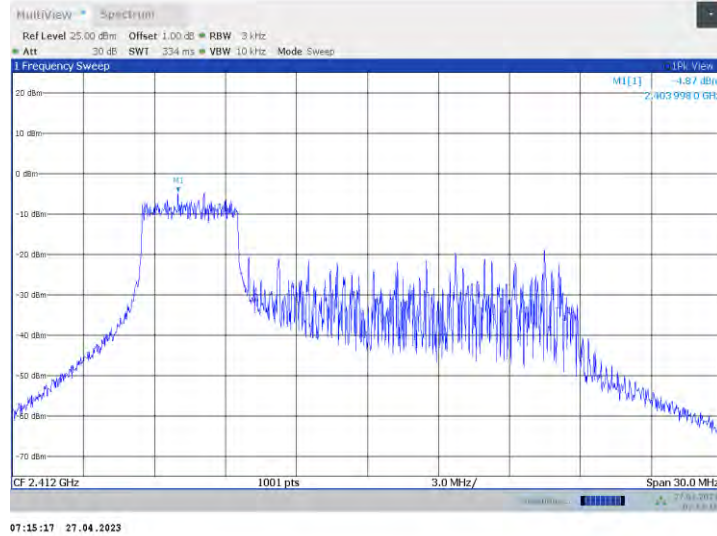
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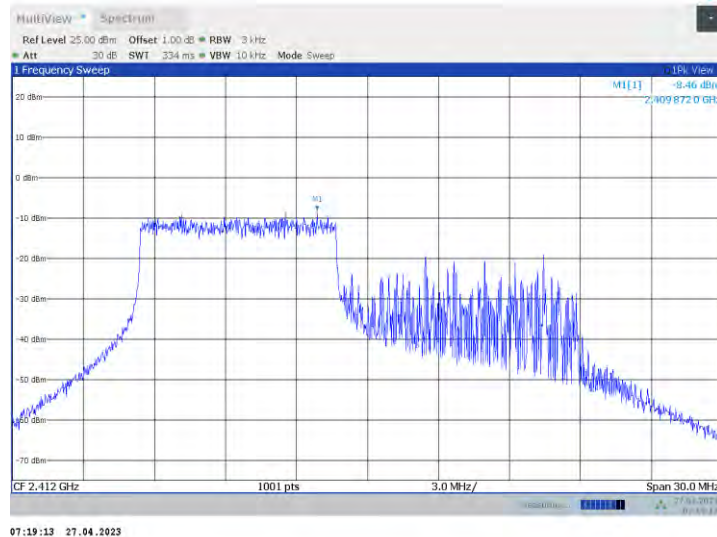
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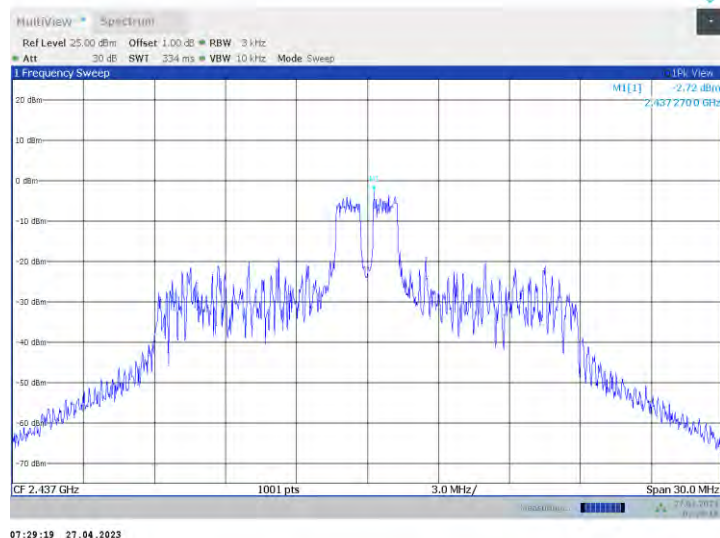
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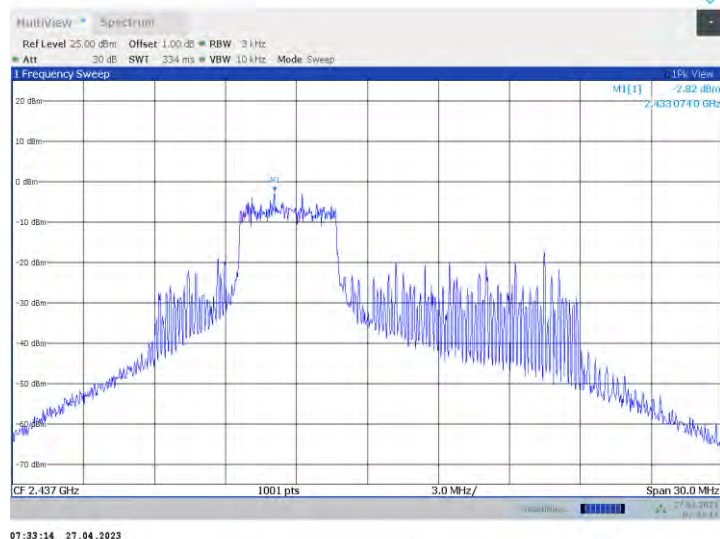
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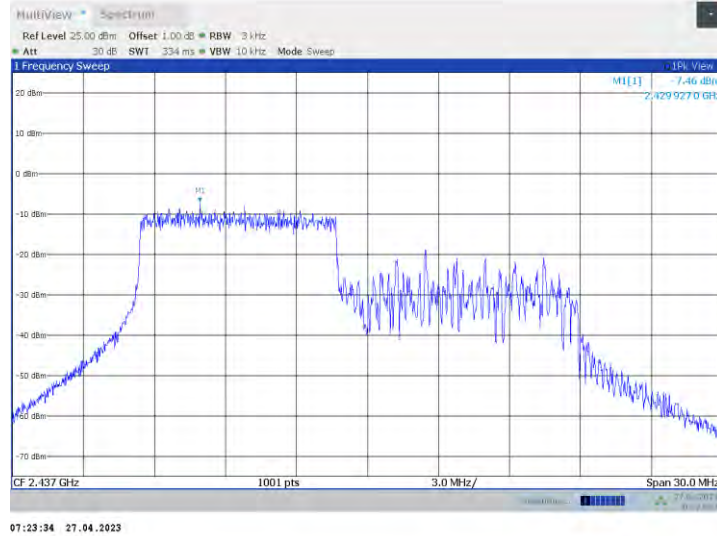
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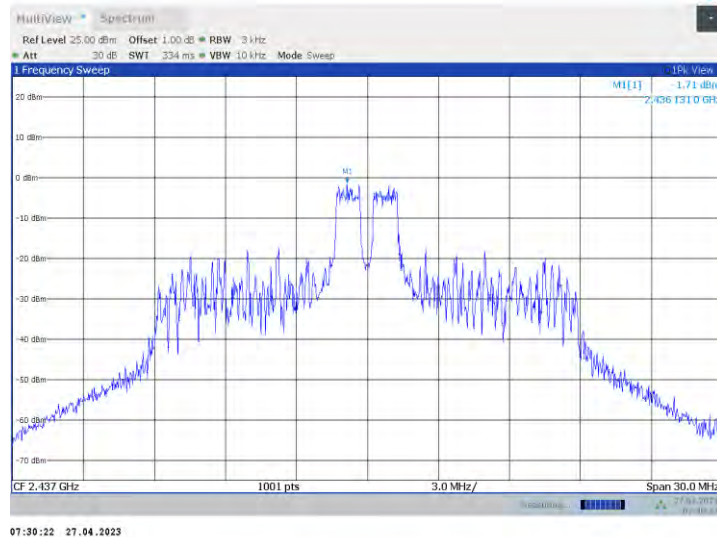
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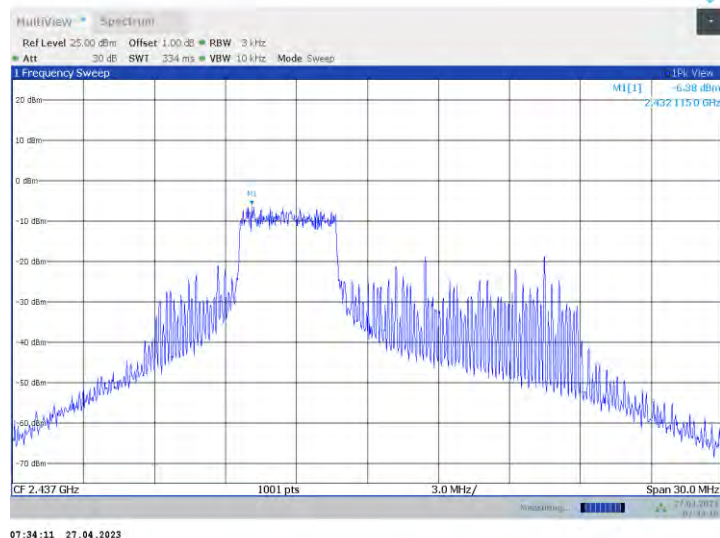
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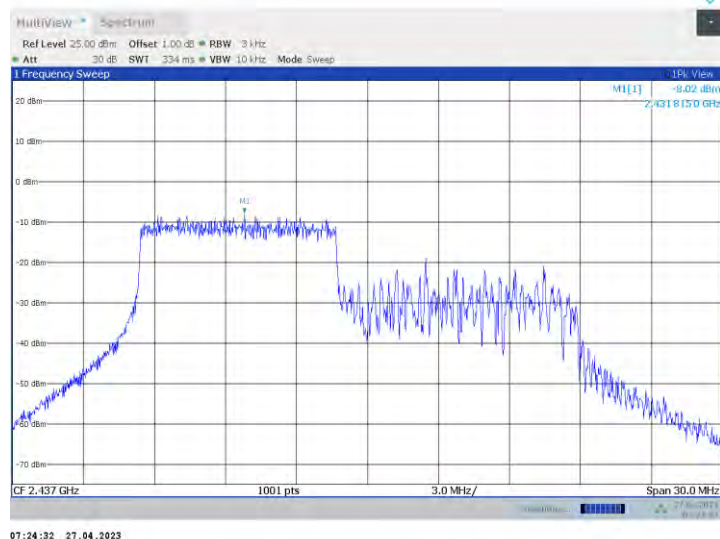
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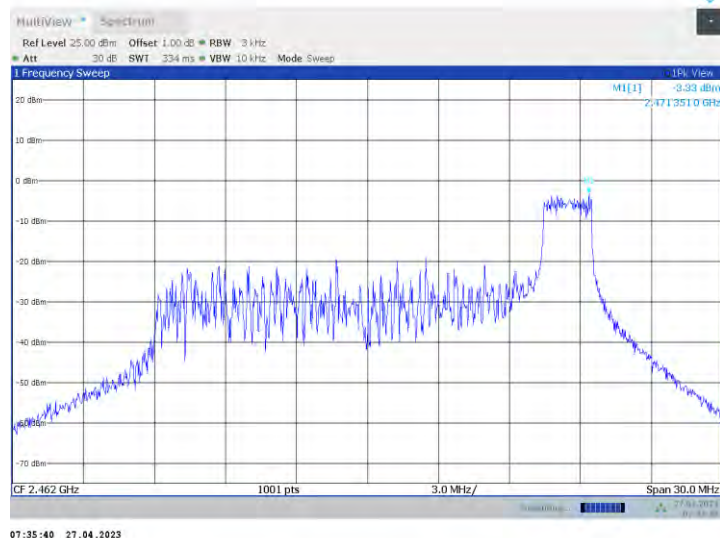
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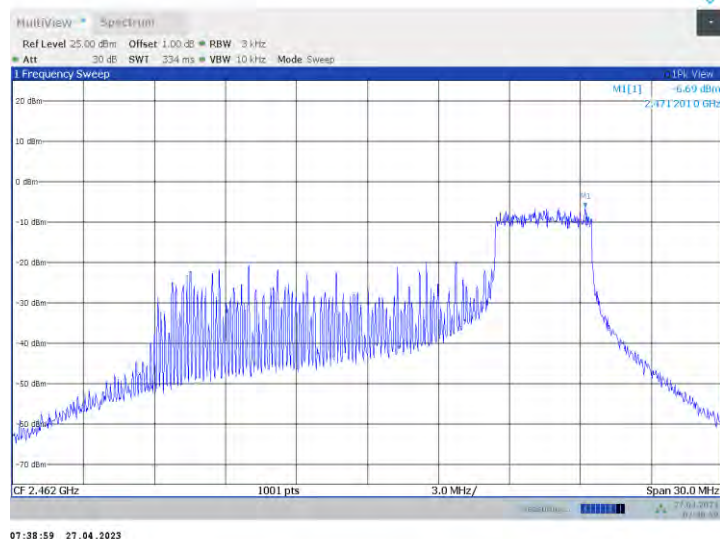
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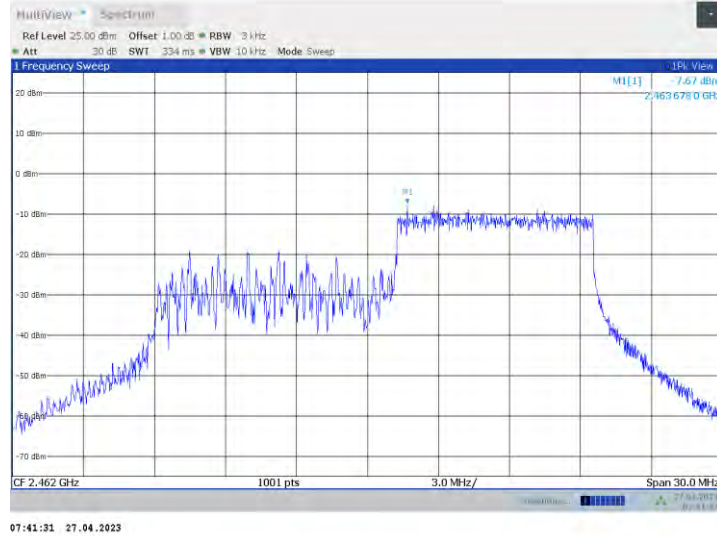
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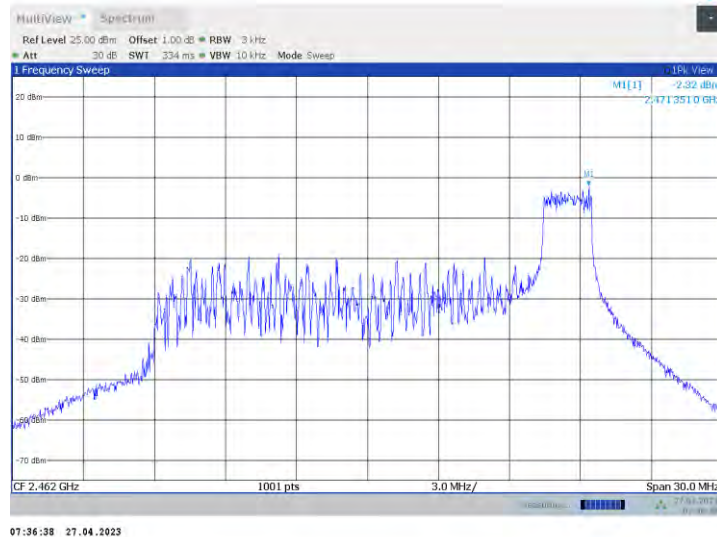
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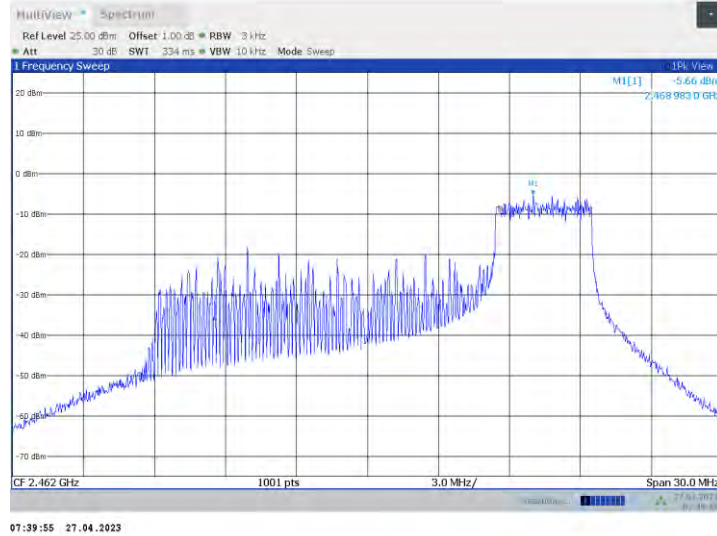
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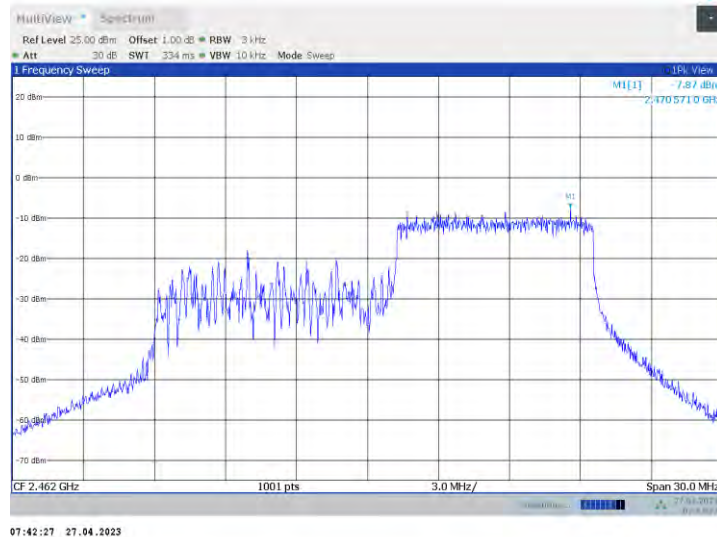
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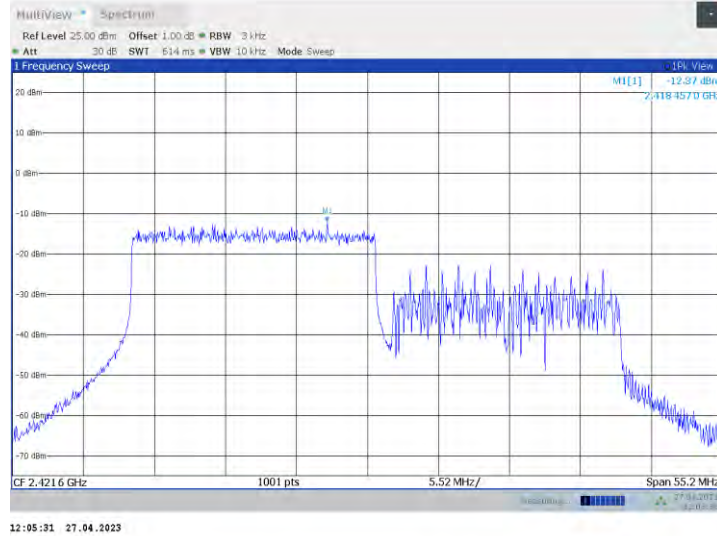
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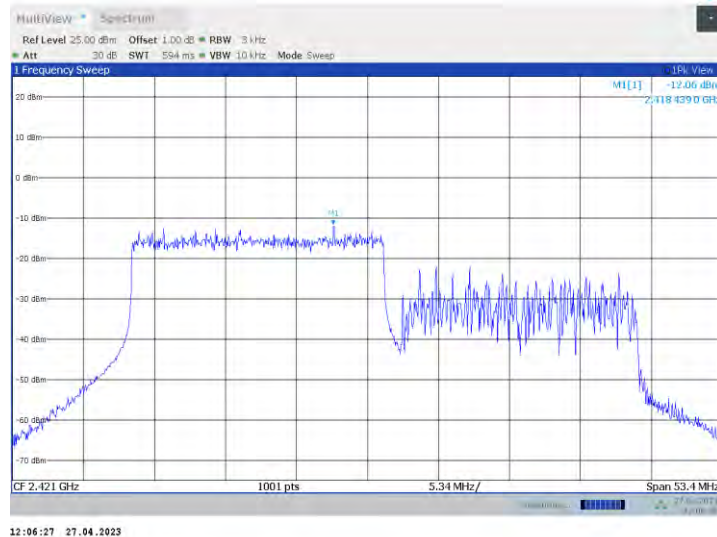
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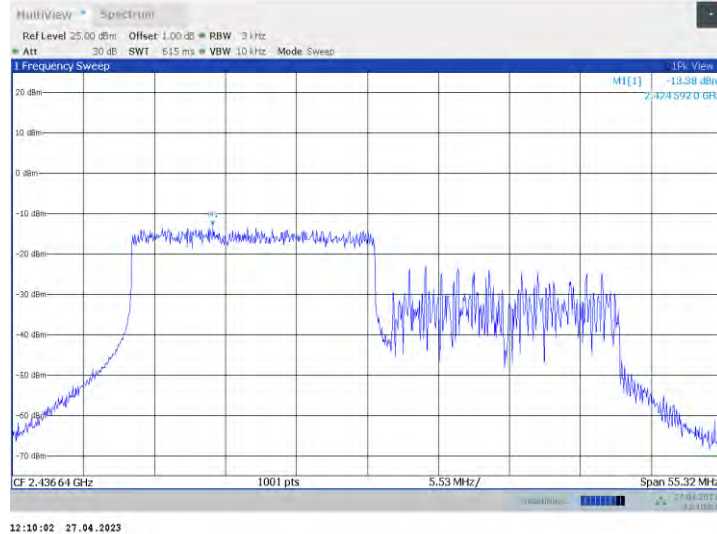
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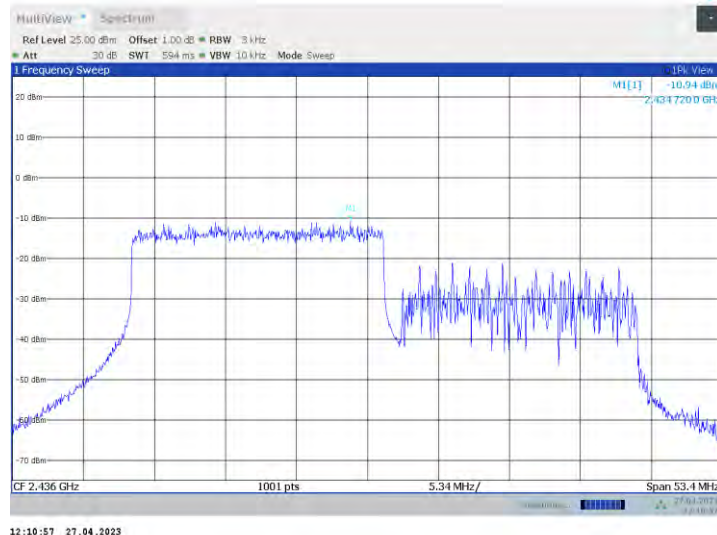
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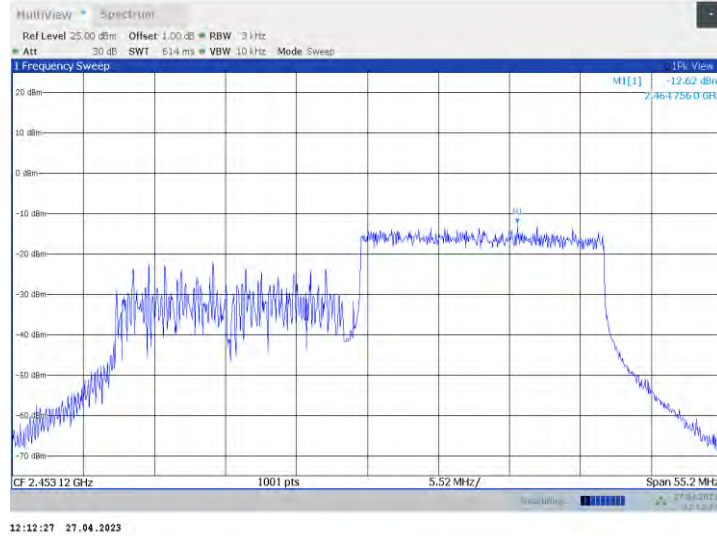
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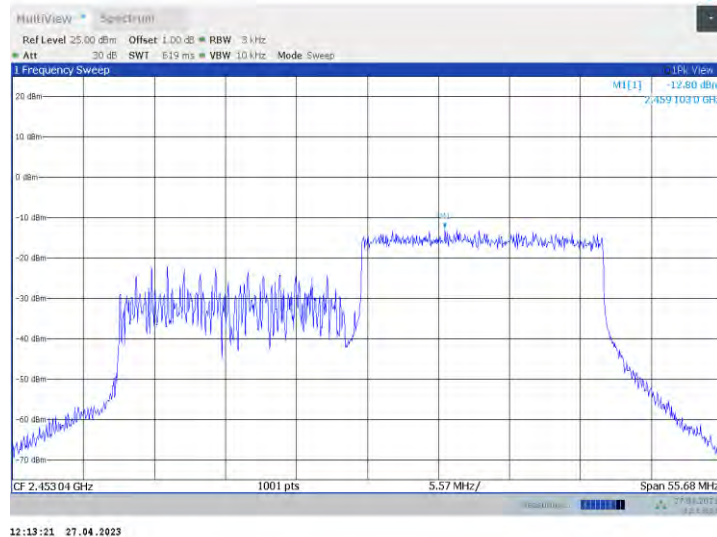
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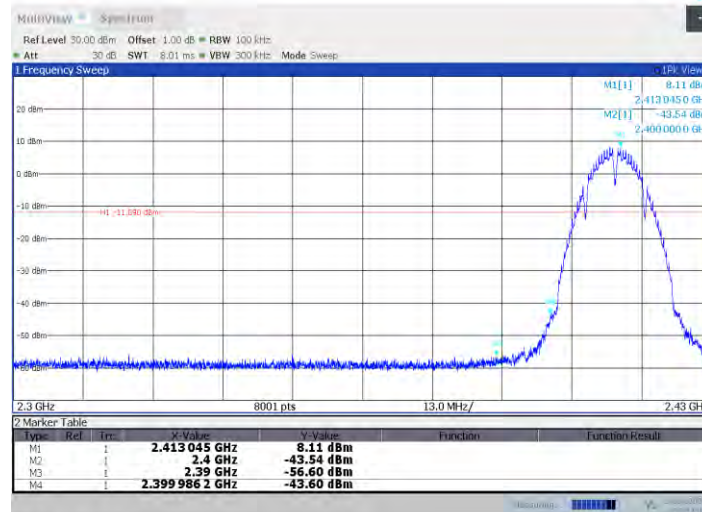
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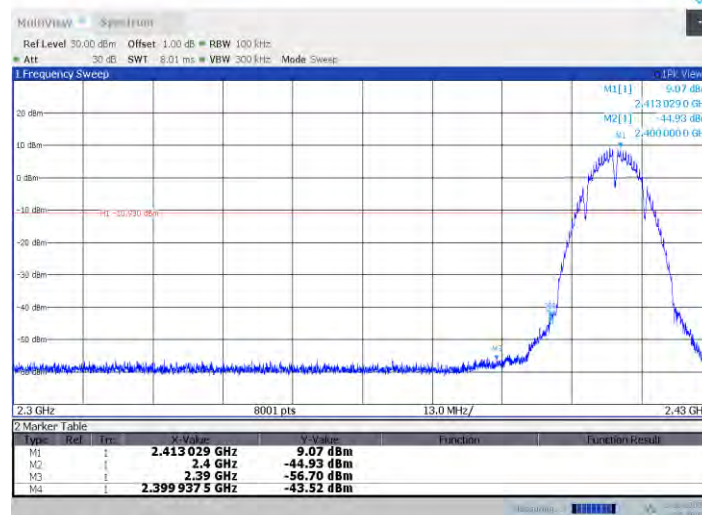
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Band edge measurements Test Graphs

11b-CDD Ant0 Low 2412



11b-CDD Ant1 Low 2412



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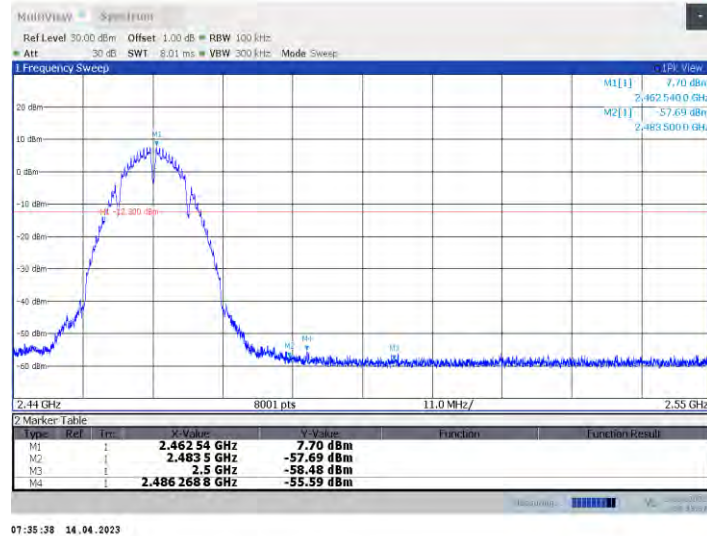
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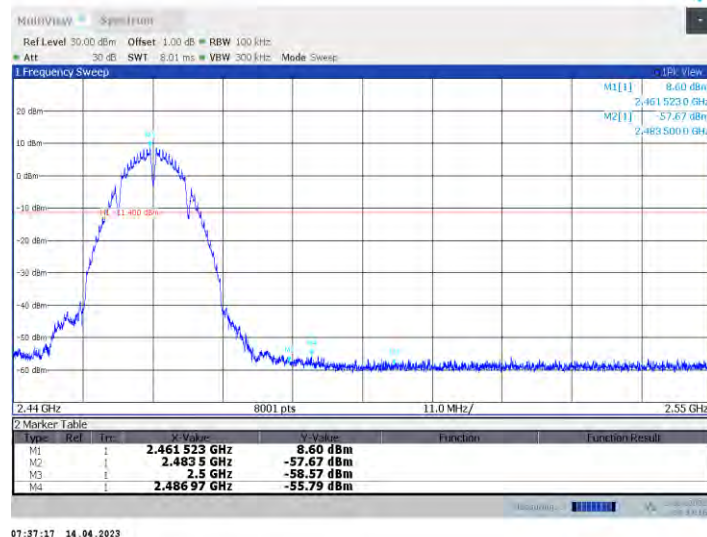
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11b-CDD_Ant0_High_2462



11b-CDD_Ant1_High_2462



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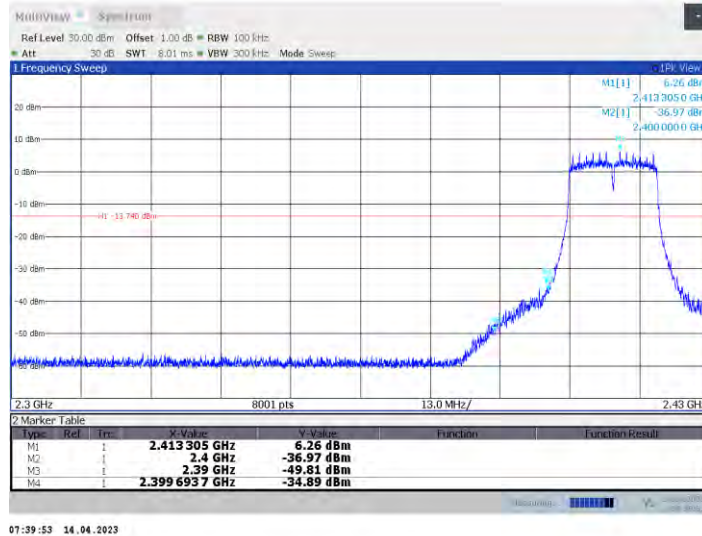
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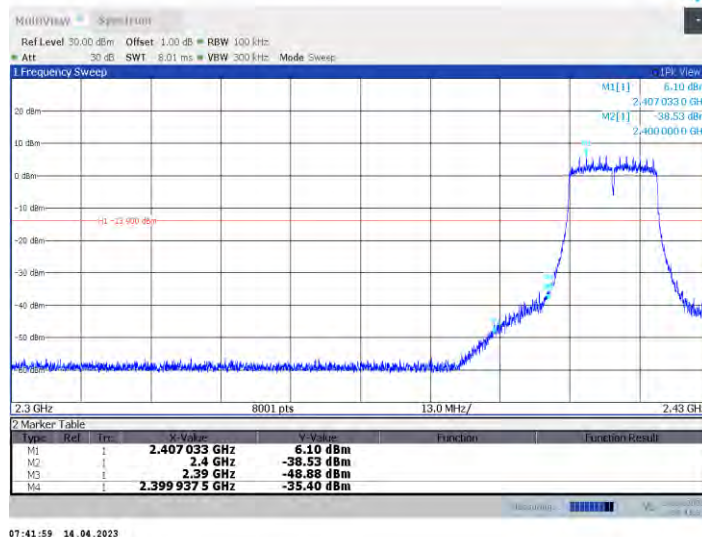
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11g-CDD_Ant0_Low_2412



11g-CDD_Ant1_Low_2412



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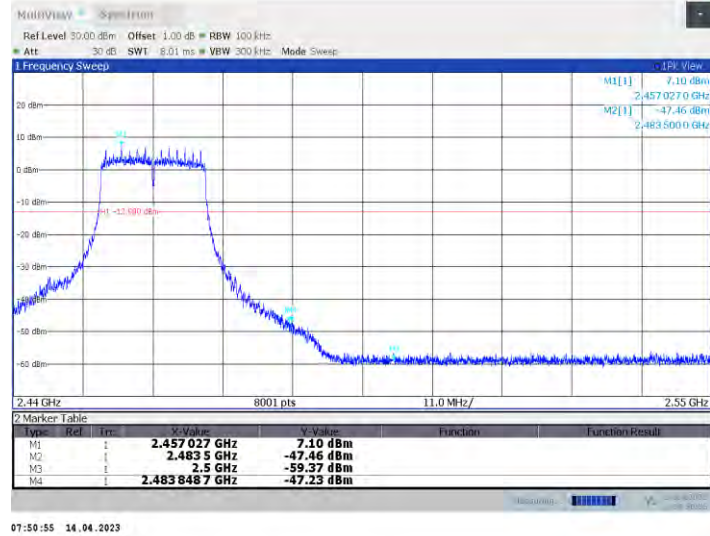
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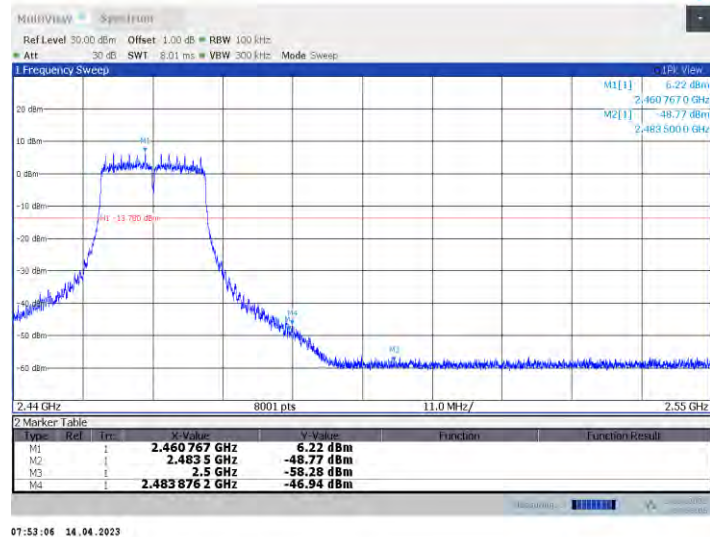
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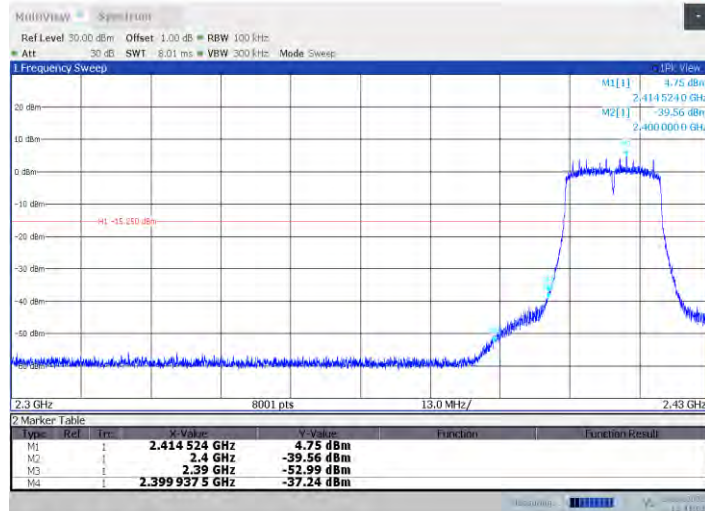
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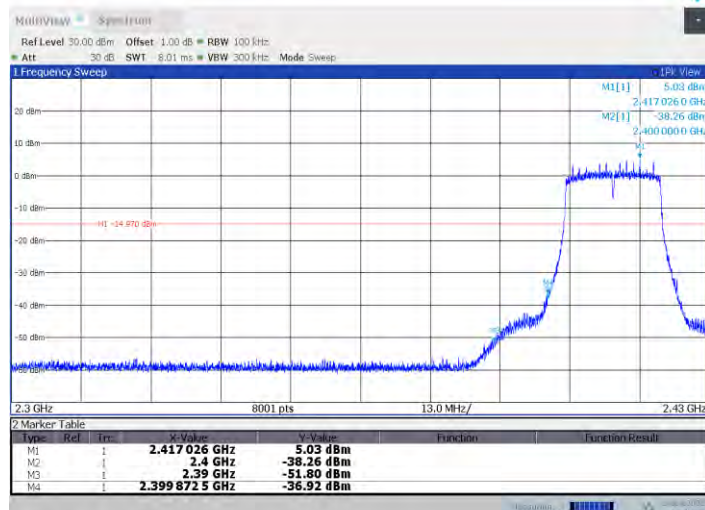
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11n20MIMO_Ant0_Low_2412



11:41:04 14.04.2023

11n20MIMO_Ant1_Low_2412



11:42:31 14.04.2023



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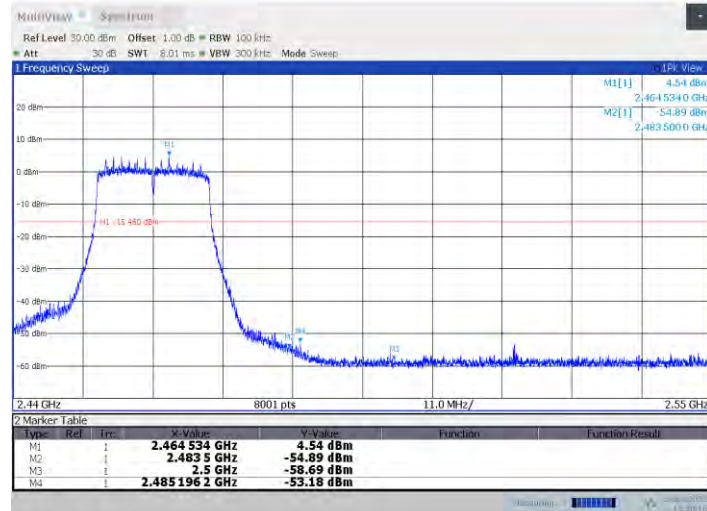
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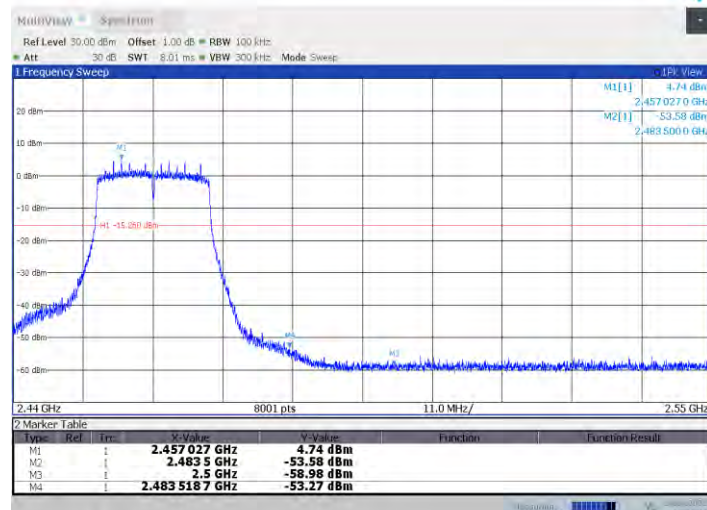
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12:00:16 14.04.2023

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12:01:44 14.04.2023



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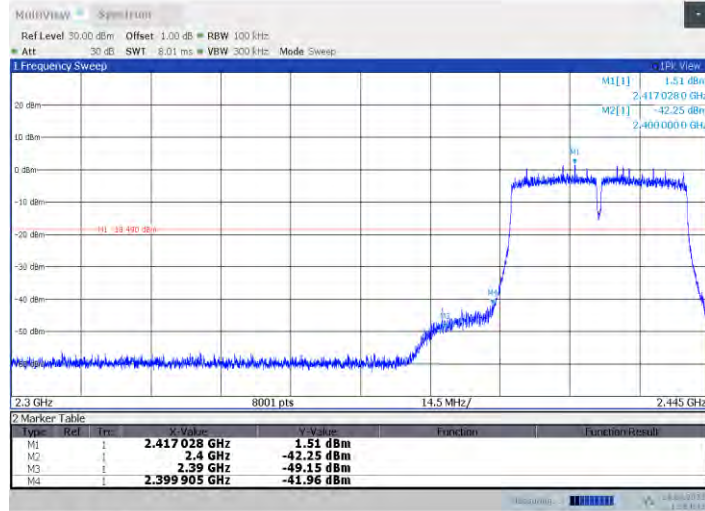
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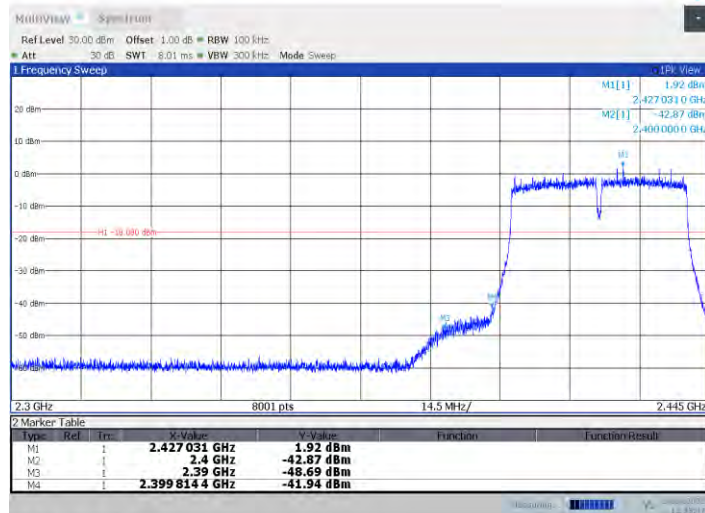
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12:04:44 14.04.2023

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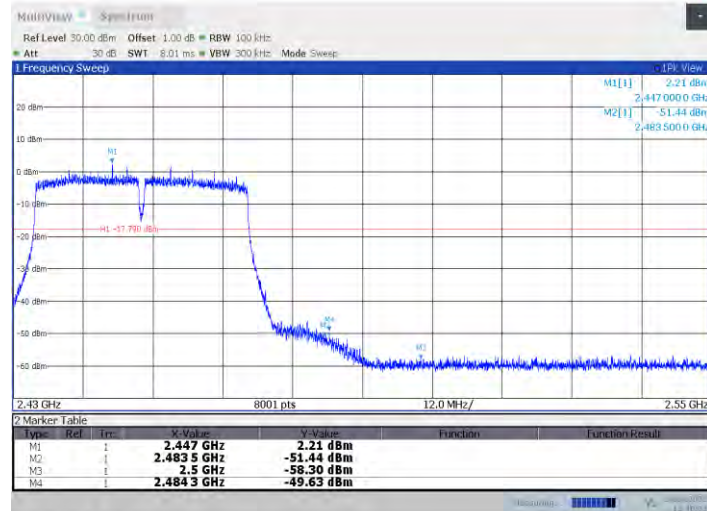
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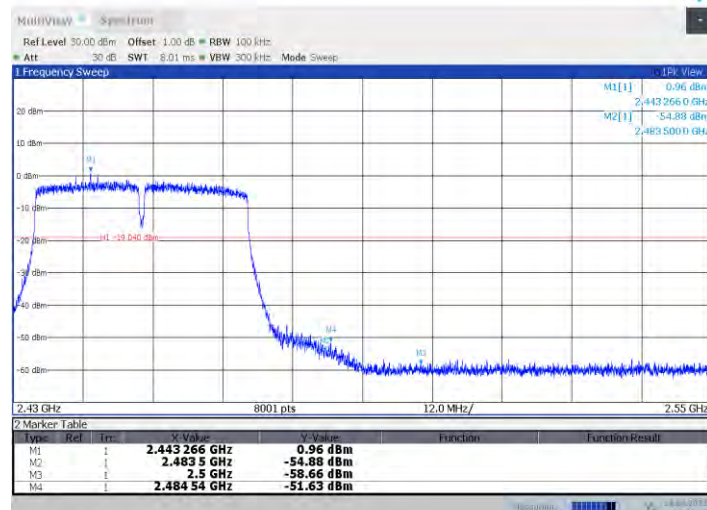
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12:40:23 14.04.2023

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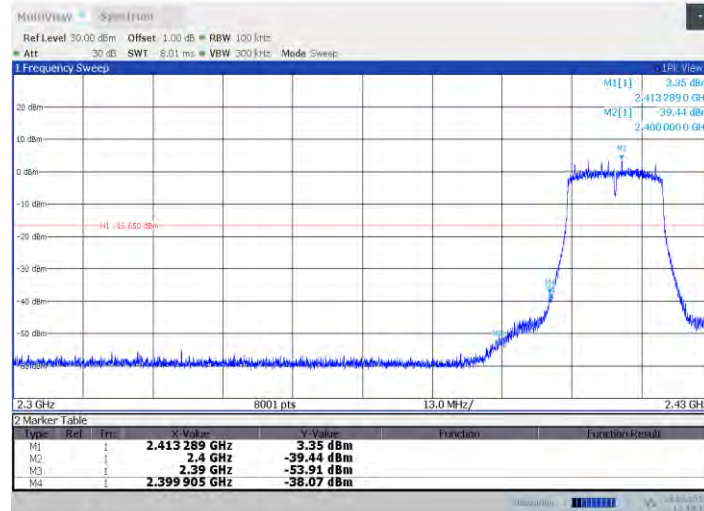
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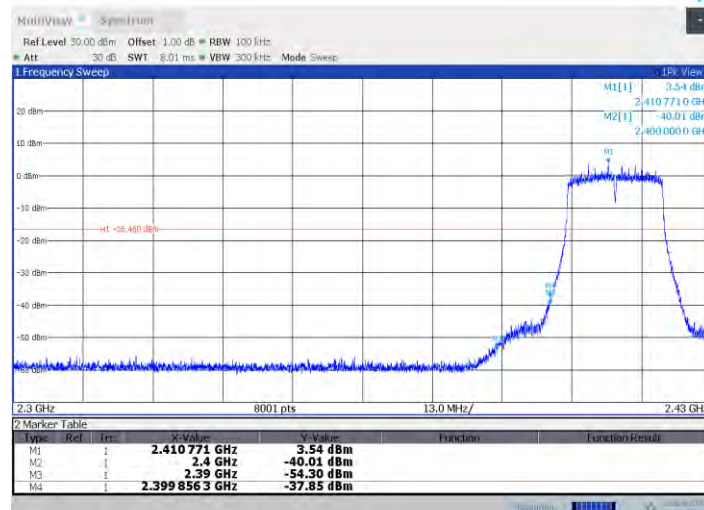
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12:43:42 14.04.2023

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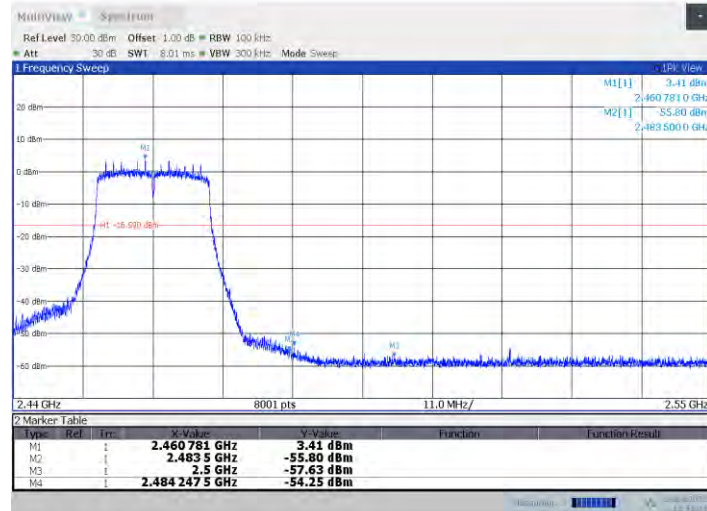
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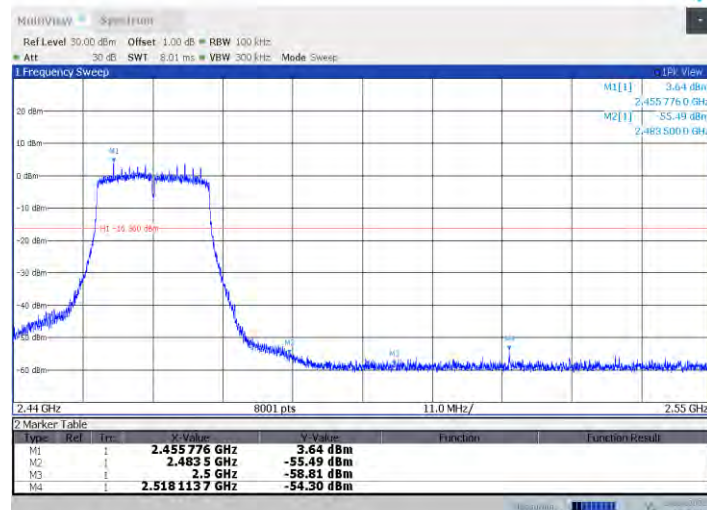
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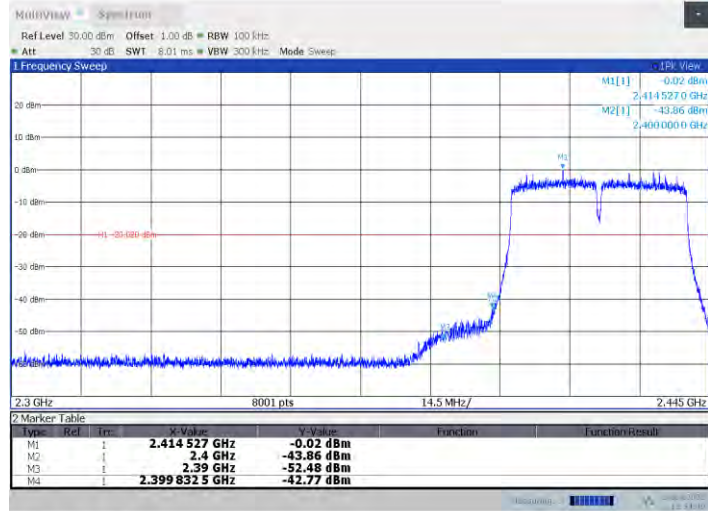
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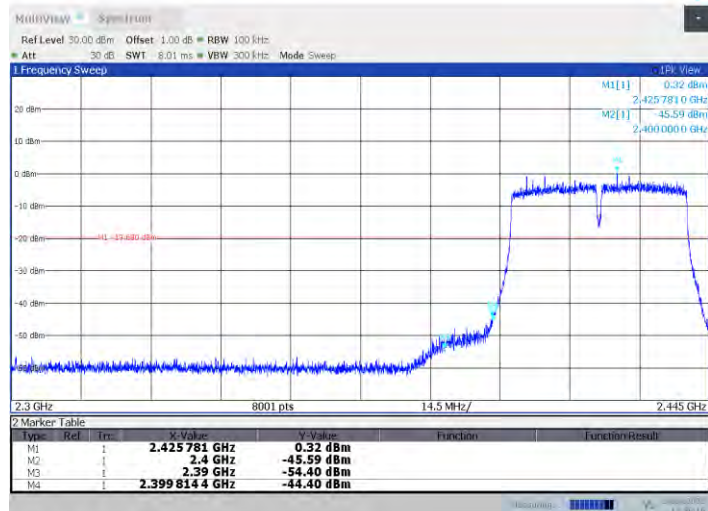
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