

Report No.: SEWM2203000023RG03

Rev.: 01

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# TEST REPORT

**Application No.:** SEWM2203000023RG  
**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.:** SG865W-WF  
**Trade Mark:** quectel  
**FCC ID:** XMR2022SG865WWF  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022/3/20  
**Date of Test:** 2022/3/20 to 2022/5/25  
**Date of Issue:** 2022/5/26

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Panta Sun  
Wireless Laboratory Manager



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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/5/26		Original

Prepared By	Weller Liu
	(Weller Liu) / Test Supervisor
Checked By	Well Wei
	(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	Reporting only
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

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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:	King-p Li, Tizzy Song, Lves 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



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### 3.4 General Description of EUT

EUT Description:	Smart Module	
Model No.:	SG865W-WF	
Trade Mark:	quectel	
Hardware Version:	R1.0	
Software Version:	SG865WWFPAR01A05	
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:	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:	<input type="checkbox"/> SISO	802.11b/g/n/ax
	<input checked="" type="checkbox"/> MIMO	STBC: 802.11n/ax: 2Tx & 2Rx
		TXBF: 802.11n/ax: Tx & Rx
	<input checked="" type="checkbox"/> Diversity	CDD: 802.11b/g : 2Tx & 2Rx
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	0dBi(Ant1); 0dBi(Ant2)	
RF Cable*:	<input checked="" type="checkbox"/> Provided by client	
	0.5dB	
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark:</p> <p>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>		



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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	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTNV	-40	3.8
HTNV	80	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

### 3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	SG865W-WF-TE-A_V1.2
Mother board	Quectel	SA800U-WF-EVB_V2.2
Adapter	Something High Electric(Xiamen)Company Inc	P60EB120500
Remark: all above the information of table are provided by client.		

### 3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	/	2 Mbps
802.11g	/	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	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 external on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>	



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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 measurements on IEEE 802.11 devices:

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

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS}=1)$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1, G_2, \dots, G_N$  dBi

- If transmit signals are correlated, then

Directional gain =  $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$  dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

- If all transmit signals are completely uncorrelated, then

Directional gain =  $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$  dBi

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 Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain (dBi)	Power Limit Reduction (dBm)
0	0	0	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: 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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Test Setup:	
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Refer to section 3.7 for details.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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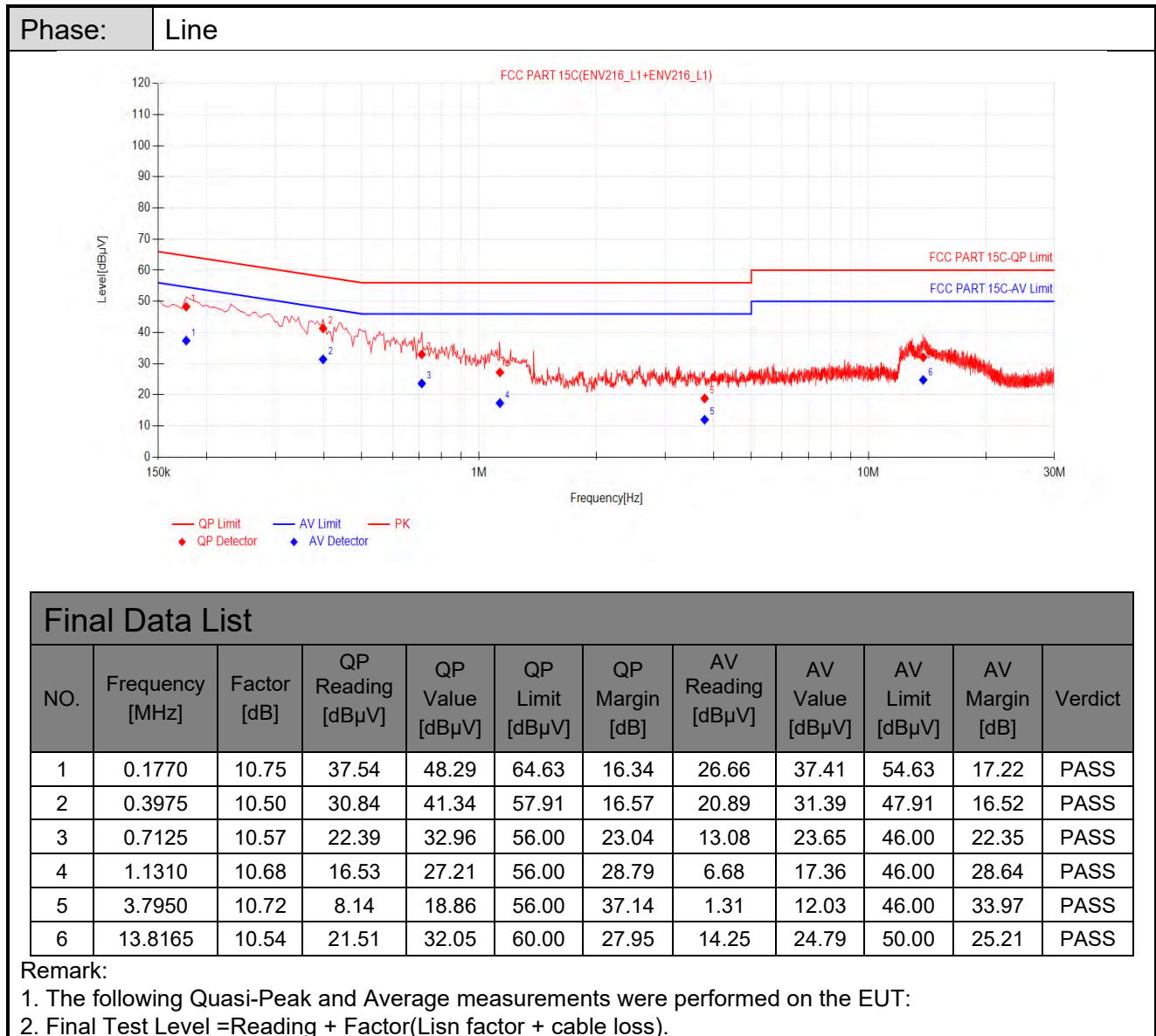
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### Measurement Data

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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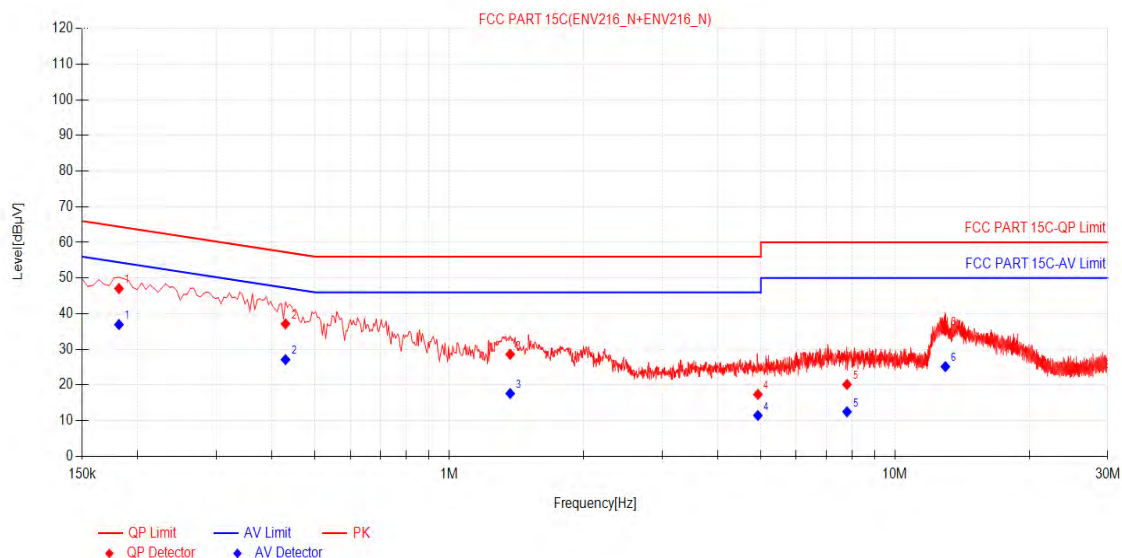


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Phase: Neutral



### 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	0.1815	10.70	36.36	47.06	64.42	17.36	26.25	36.95	54.42	17.47	PASS
2	0.4290	10.83	26.31	37.14	57.27	20.13	16.29	27.12	47.27	20.15	PASS
3	1.3695	10.77	17.84	28.61	56.00	27.39	6.83	17.60	46.00	28.40	PASS
4	4.9245	10.64	6.70	17.34	56.00	38.66	0.82	11.46	46.00	34.54	PASS
5	7.8045	10.56	9.58	20.14	60.00	39.86	1.92	12.48	50.00	37.52	PASS
6	12.9705	10.62	24.64	35.26	60.00	24.74	14.53	25.15	50.00	24.85	PASS

### Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor (Lisn factor + cable loss).



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### 4.3 Duty Cycle

The detailed test data see: **Appendix**



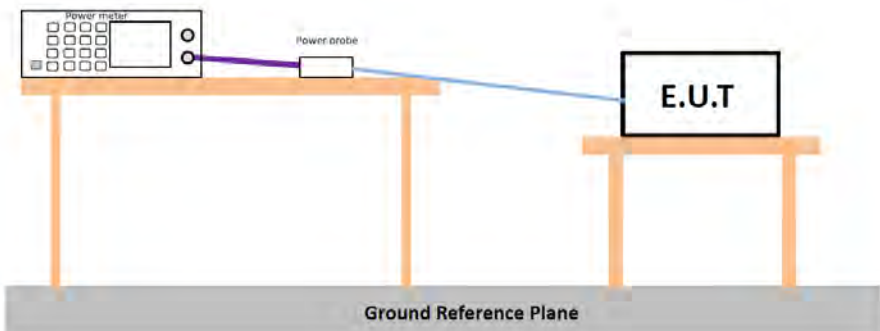
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## 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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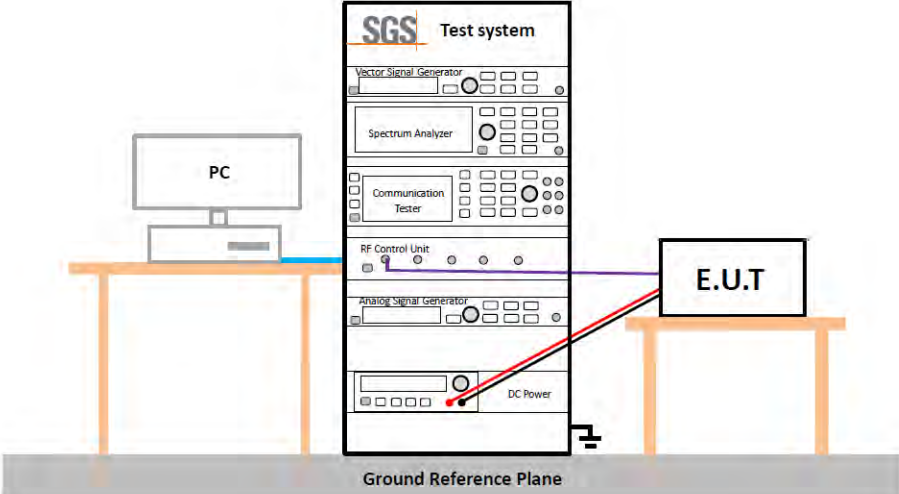
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### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 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: <b>Appendix</b>	



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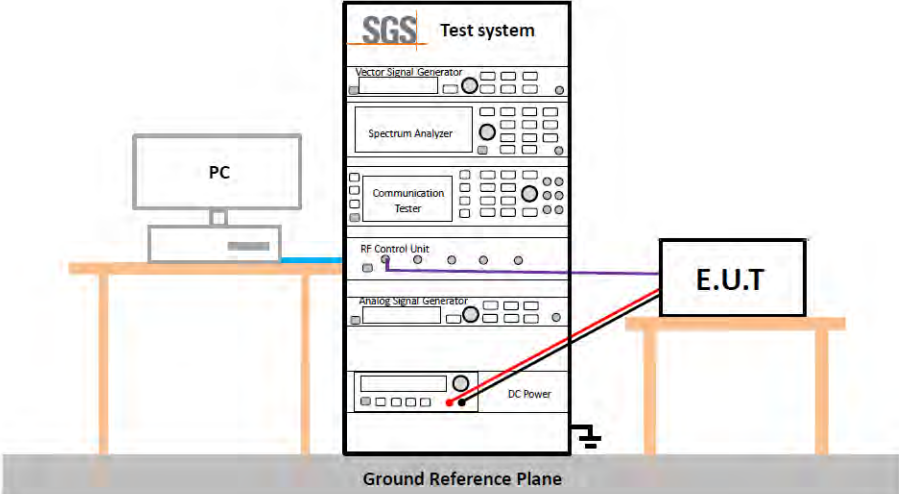
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## 4.6 Power Spectral Density

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



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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: <b>Appendix</b>	



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## 4.8 RF Conducted Spurious Emissions

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



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## 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)				
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
Limit:	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	3MHz	Peak
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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### Test Setup:

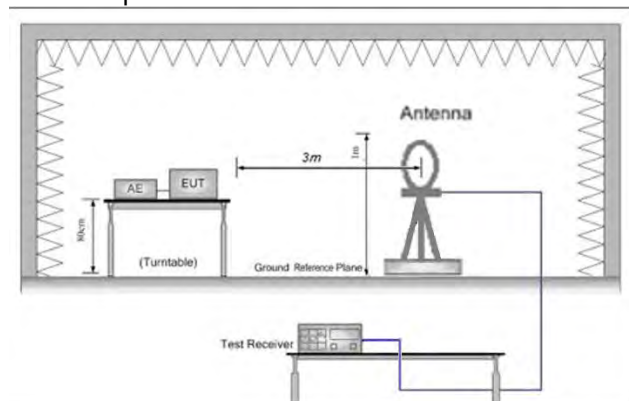


Figure 1. Below 30MHz

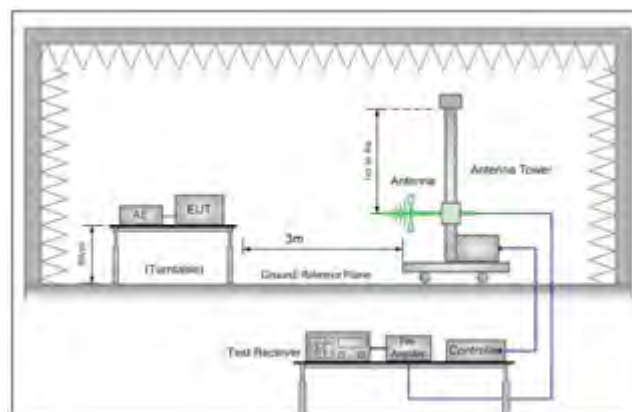


Figure 2. 30MHz to 1GHz

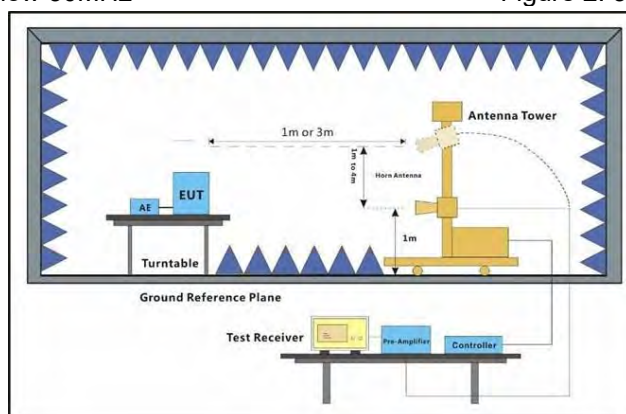


Figure 3. Above 1 GHz

### Test Procedure:

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



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	<p>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 <math>20 \cdot \log(3/1) = 9.54</math> dB.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
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: <b>Appendix</b>	



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### 4.10 Restricted bands around fundamental frequency

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

Test Setup:

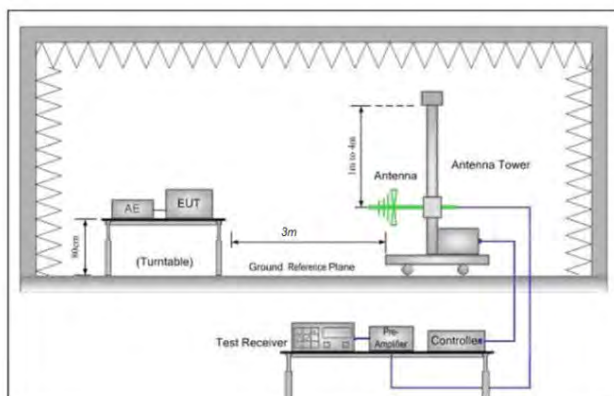


Figure 1. 30MHz to 1GHz

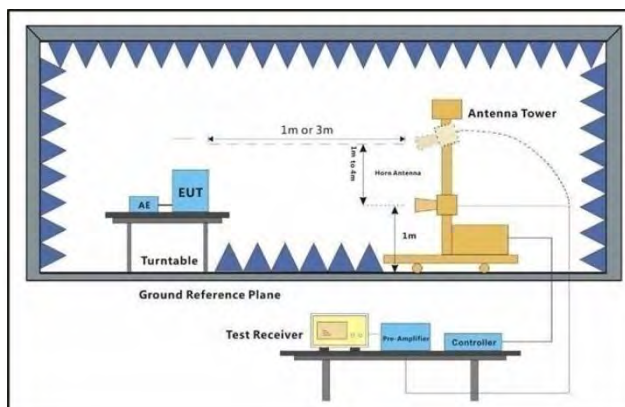


Figure 2. Above 1 GHz



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Test Procedure:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul> <p>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.



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	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: <b>Appendix</b>	



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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 -30MHz)
		$\pm 4.80\text{dB}$ (30M -1GHz)
		$\pm 4.80\text{dB}$ (1GHz to 18GHz)
		$\pm 4.80\text{dB}$ (Above 18GHz)



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## 6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15



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Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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## DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	8.08	2407.96	2416.04	$\geq 0.5$	PASS
	Ant2	2412	8.08	2407.96	2416.04	$\geq 0.5$	PASS
	Ant1	2437	8.08	2432.96	2441.04	$\geq 0.5$	PASS
	Ant2	2437	8.08	2432.96	2441.04	$\geq 0.5$	PASS
	Ant1	2462	7.08	2458.44	2465.52	$\geq 0.5$	PASS
	Ant2	2462	7.08	2458.44	2465.52	$\geq 0.5$	PASS
11G-CDD	Ant1	2412	15.96	2404.20	2420.16	$\geq 0.5$	PASS
	Ant2	2412	15.96	2404.20	2420.16	$\geq 0.5$	PASS
	Ant1	2437	16.36	2428.80	2445.16	$\geq 0.5$	PASS
	Ant2	2437	16.28	2428.84	2445.12	$\geq 0.5$	PASS
	Ant1	2462	16.28	2453.84	2470.12	$\geq 0.5$	PASS
	Ant2	2462	16.28	2453.84	2470.12	$\geq 0.5$	PASS
11N20MIMO	Ant1	2412	16.92	2403.84	2420.76	$\geq 0.5$	PASS
	Ant2	2412	16.92	2403.84	2420.76	$\geq 0.5$	PASS
	Ant1	2437	16.92	2428.60	2445.52	$\geq 0.5$	PASS
	Ant2	2437	17.32	2428.20	2445.52	$\geq 0.5$	PASS
	Ant1	2462	16.28	2453.84	2470.12	$\geq 0.5$	PASS
	Ant2	2462	16.92	2453.60	2470.52	$\geq 0.5$	PASS
11N40MIMO	Ant1	2422	34.48	2405.68	2440.16	$\geq 0.5$	PASS
	Ant2	2422	36.00	2404.16	2440.16	$\geq 0.5$	PASS
	Ant1	2437	35.12	2419.40	2454.52	$\geq 0.5$	PASS
	Ant2	2437	35.12	2420.04	2455.16	$\geq 0.5$	PASS
	Ant1	2452	35.52	2434.08	2469.60	$\geq 0.5$	PASS
	Ant2	2452	35.36	2434.24	2469.60	$\geq 0.5$	PASS
11AX20MIMO	Ant1	2412	18.52	2402.92	2421.44	$\geq 0.5$	PASS
	Ant2	2412	18.40	2403.08	2421.48	$\geq 0.5$	PASS
	Ant1	2437	18.00	2427.68	2445.68	$\geq 0.5$	PASS
	Ant2	2437	18.52	2427.72	2446.24	$\geq 0.5$	PASS
	Ant1	2462	18.64	2452.60	2471.24	$\geq 0.5$	PASS
	Ant2	2462	17.64	2453.48	2471.12	$\geq 0.5$	PASS
11AX40MIMO	Ant1	2422	35.36	2405.60	2440.96	$\geq 0.5$	PASS
	Ant2	2422	35.28	2404.40	2439.68	$\geq 0.5$	PASS
	Ant1	2437	35.92	2419.40	2455.32	$\geq 0.5$	PASS
	Ant2	2437	32.72	2420.28	2453.00	$\geq 0.5$	PASS
	Ant1	2452	36.88	2433.04	2469.92	$\geq 0.5$	PASS
	Ant2	2452	36.40	2433.44	2469.84	$\geq 0.5$	PASS



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### Test Graphs

11B-CDD\_Ant1\_2412



14:39:24 02.04.2022

11B-CDD\_Ant2\_2412



14:41:47 02.04.2022



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### 11B-CDD\_Ant1\_2437



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### 11B-CDD\_Ant2\_2437



14:58:40 02.04.2022



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### 11B-CDD Ant1 2462



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### 11B-CDD Ant2 2462



15:04:34 02.04.2022



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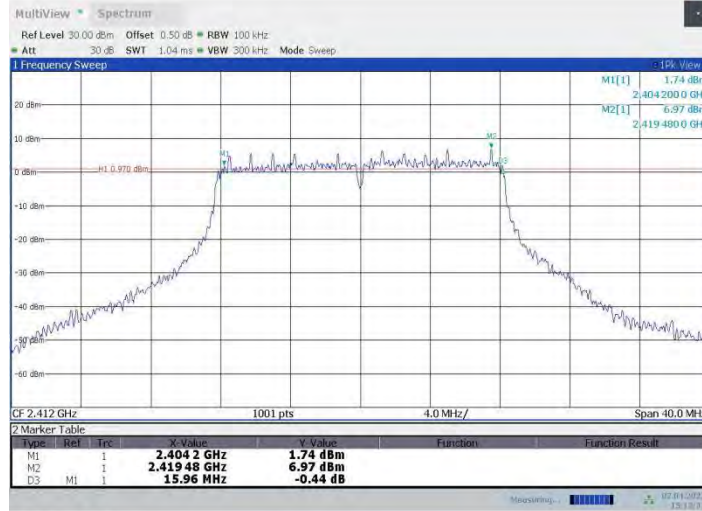


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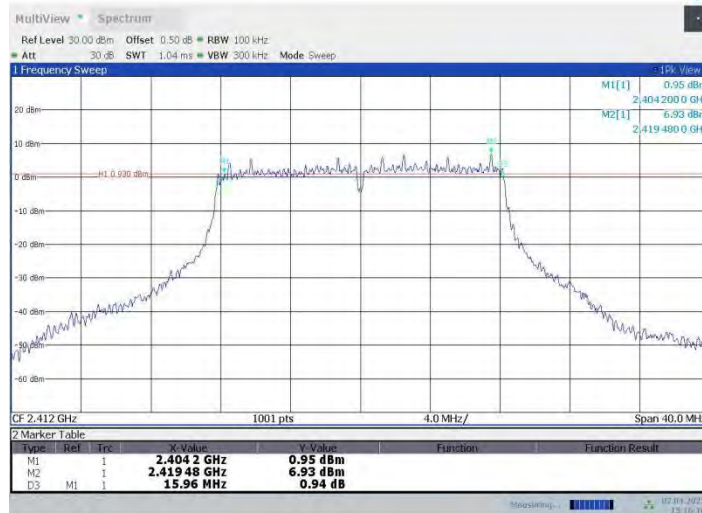
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### 11G-CDD Ant1 2412



### 11G-CDD Ant2 2412



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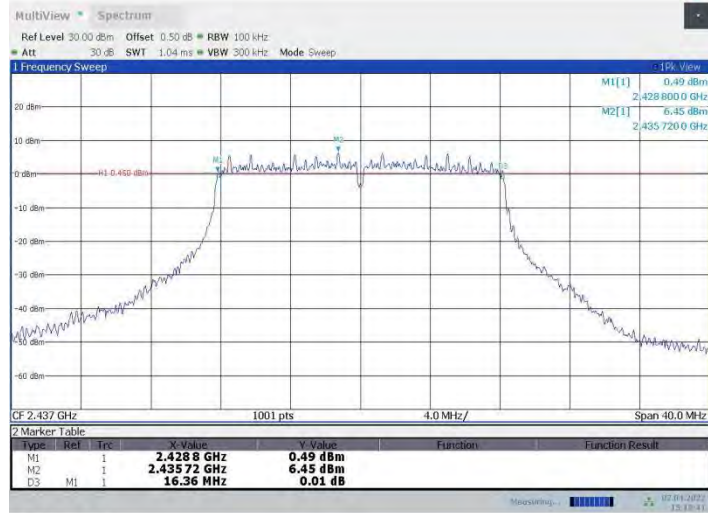


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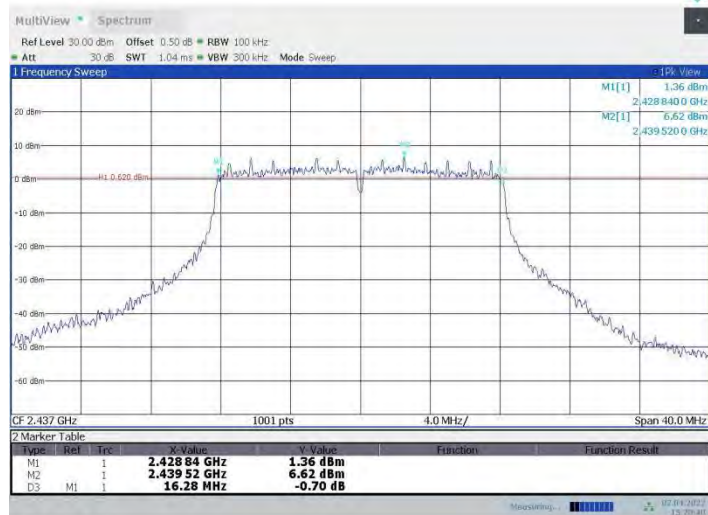
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### 11G-CDD Ant1 2437



15:18:42 02.04.2022

### 11G-CDD Ant2 2437



15:20:41 02.04.2022



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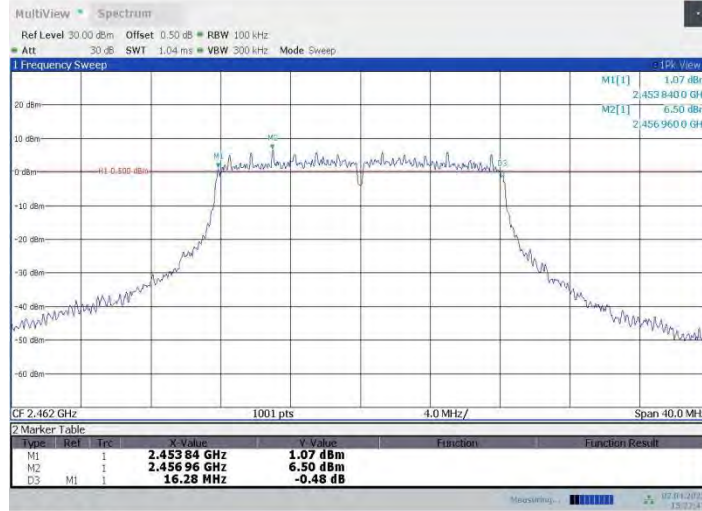
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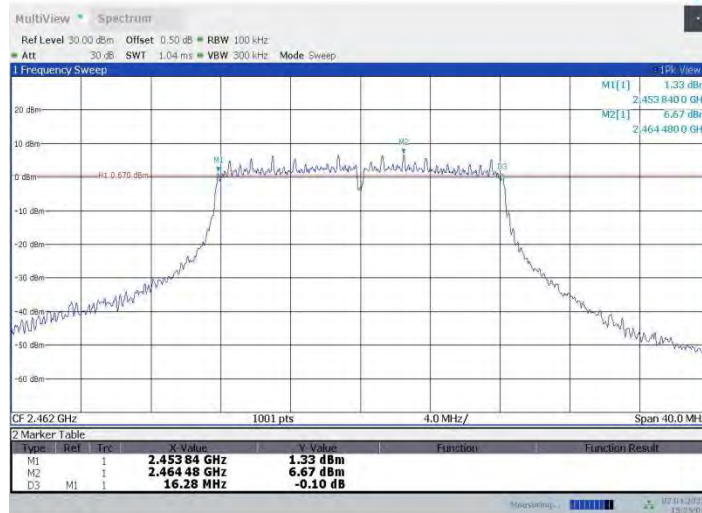
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### 11G-CDD Ant2 2462



15:25:02 02.04.2022



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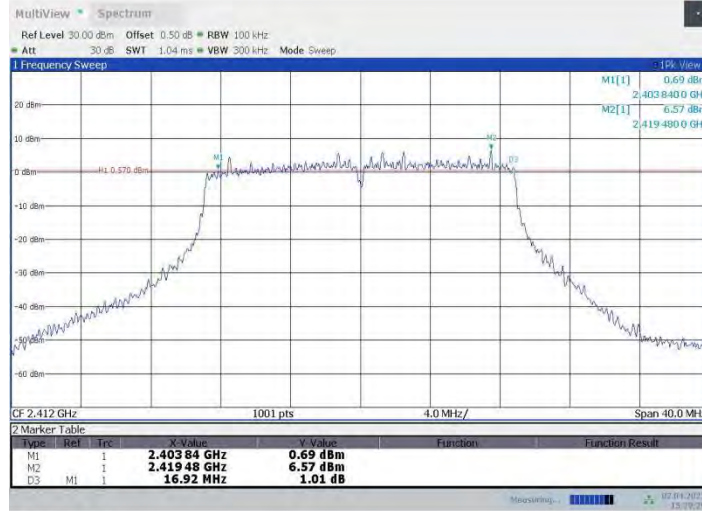
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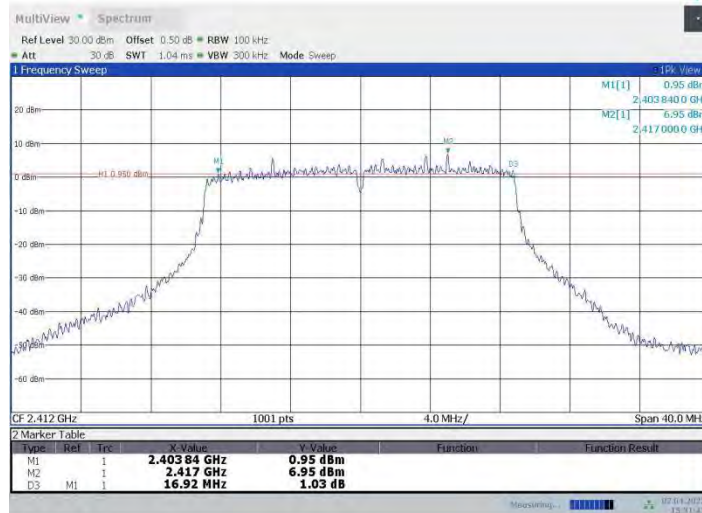
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### 11N20MIMO\_Ant1\_2412



15:29:30 02.04.2022

### 11N20MIMO\_Ant2\_2412



15:31:44 02.04.2022



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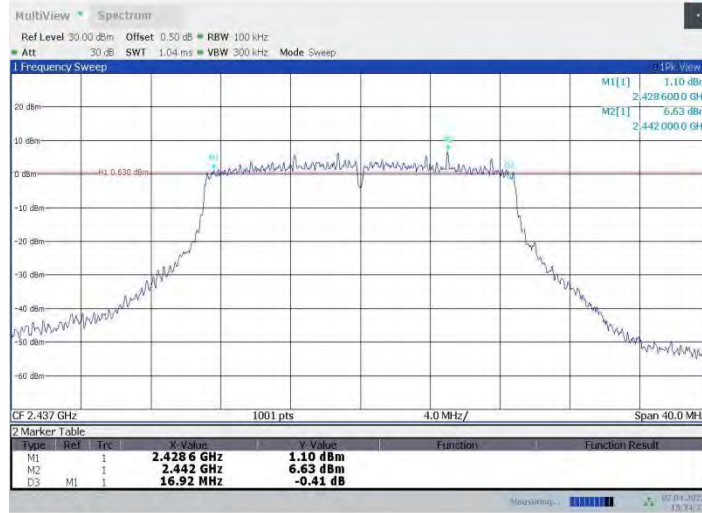


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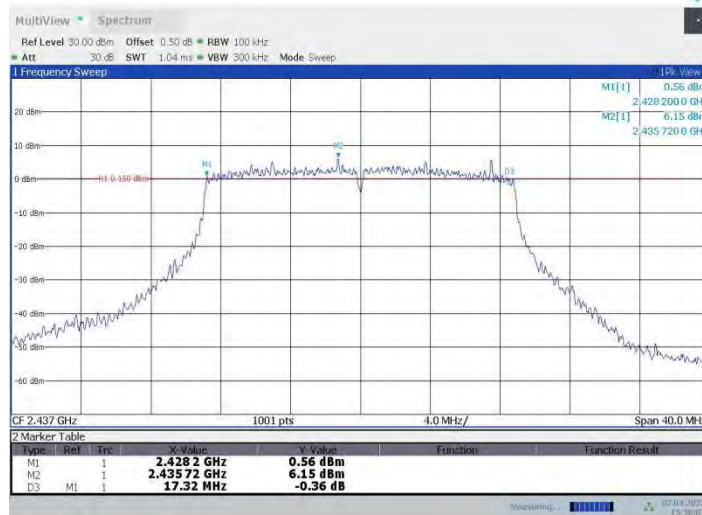
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### 11N20MIMO\_Ant1\_2437



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### 11N20MIMO\_Ant2\_2437



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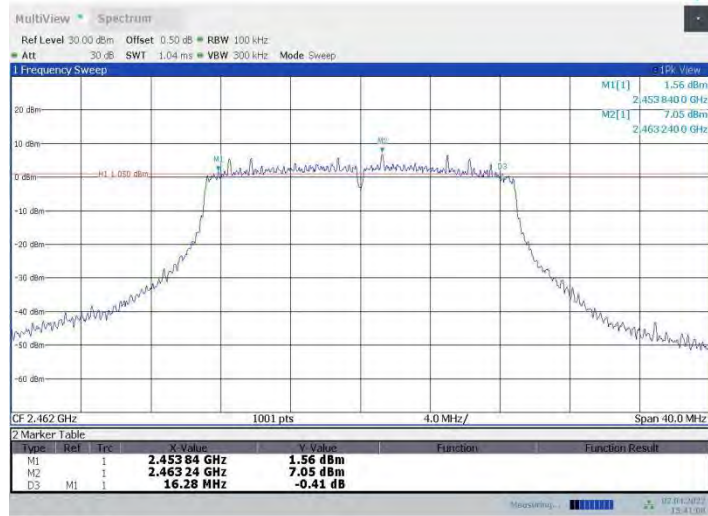


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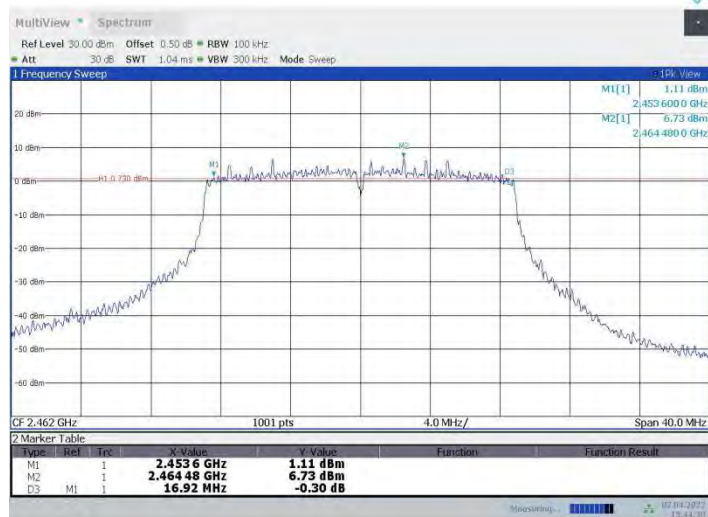
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### 11N20MIMO\_Ant1\_2462



15:41:08 02.04.2022

### 11N20MIMO\_Ant2\_2462



15:44:30 02.04.2022



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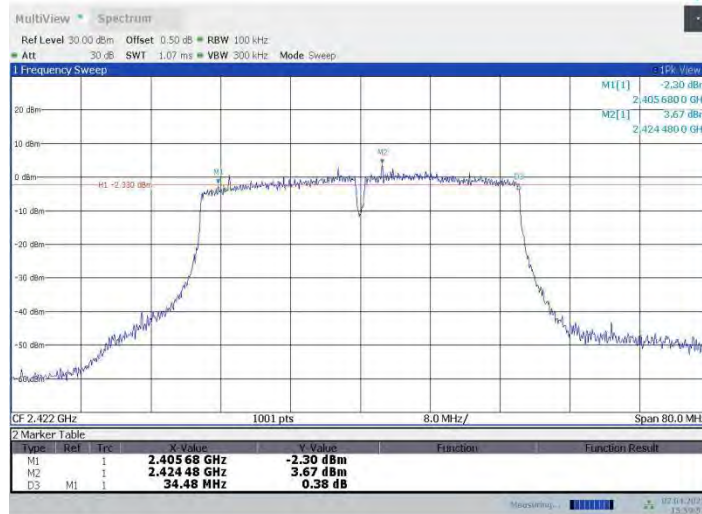
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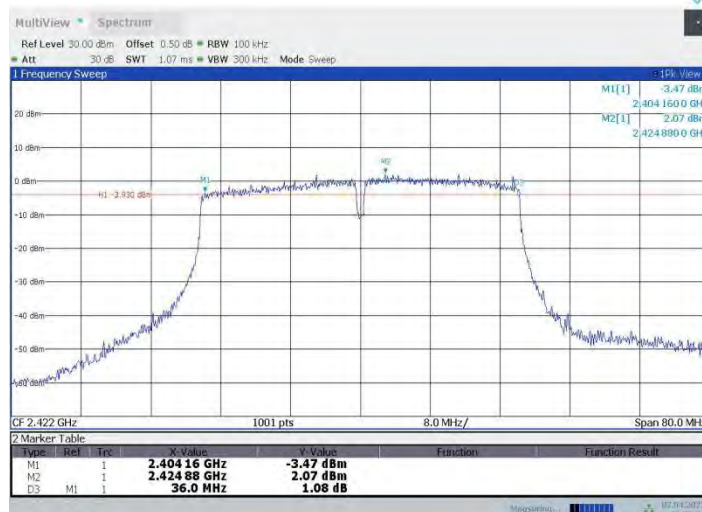
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### 11N40MIMO\_Ant1\_2422



15:59:58 02.04.2022

### 11N40MIMO\_Ant2\_2422



16:02:45 02.04.2022



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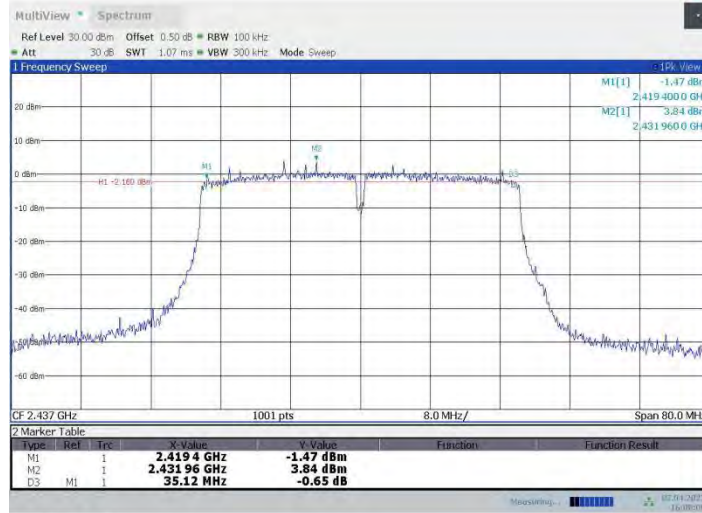
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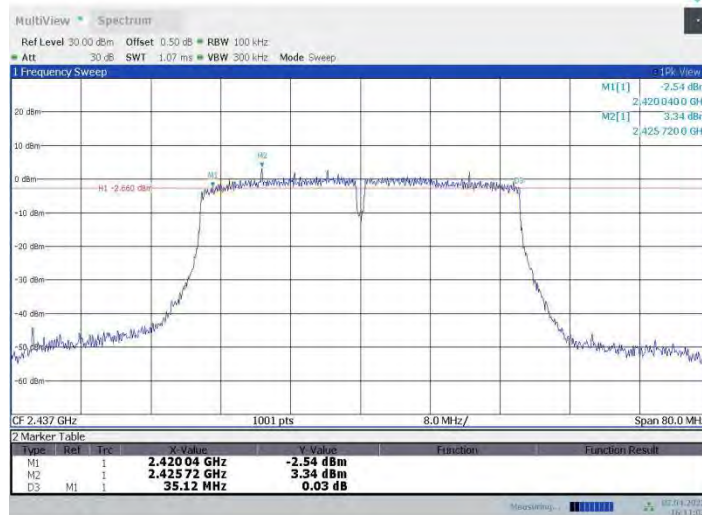
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### 11N40MIMO Ant1 2437



16:08:09 02.04.2022

### 11N40MIMO Ant2 2437



16:11:03 02.04.2022



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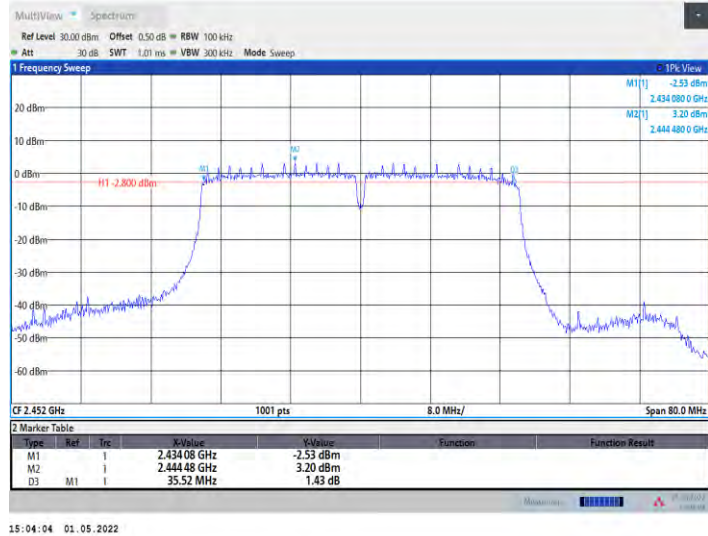


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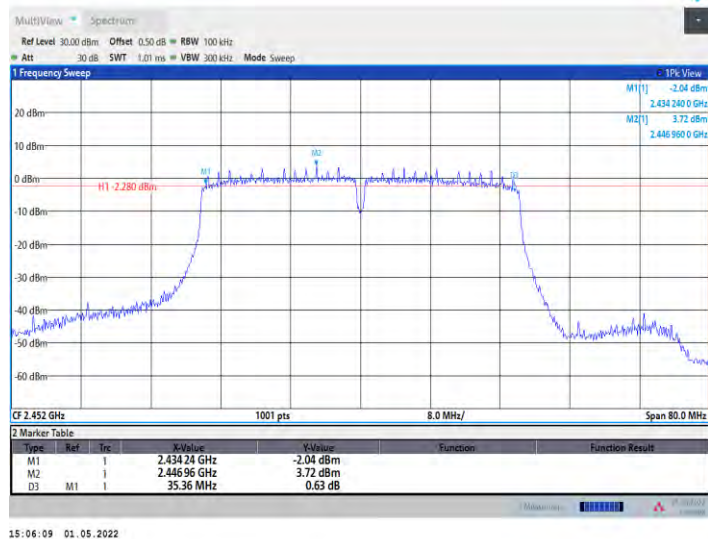
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### 11N40MIMO\_Ant1\_2452



### 11N40MIMO\_Ant2\_2452



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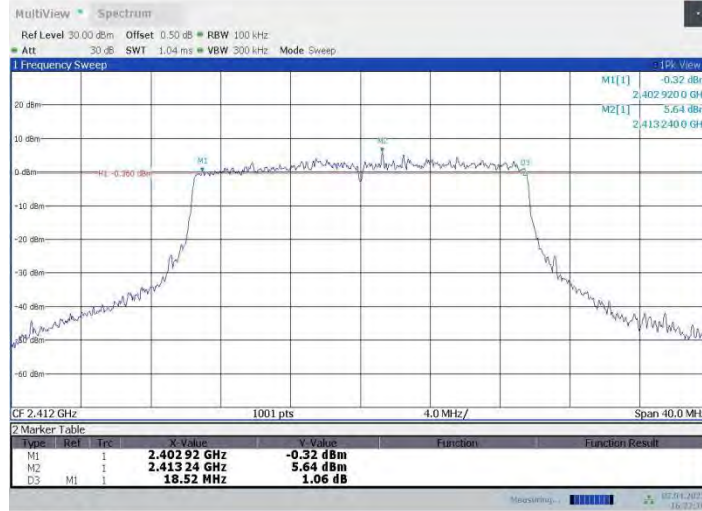


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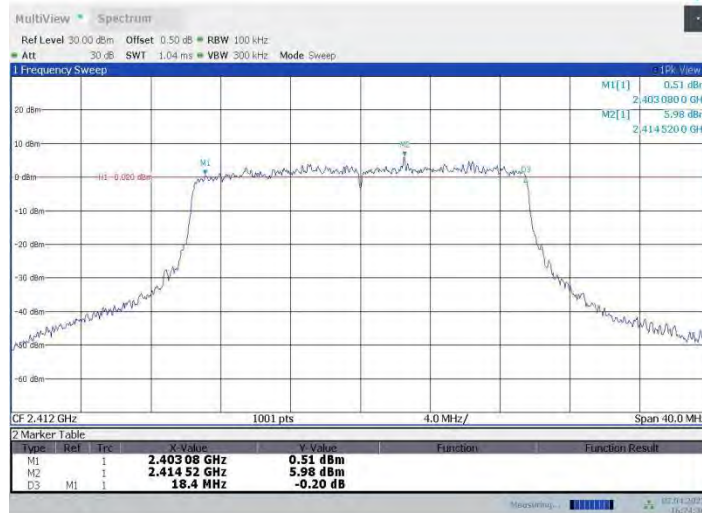
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### 11AX20MIMO\_Ant1\_2412



16:22:10 02.04.2022

### 11AX20MIMO\_Ant2\_2412



16:24:37 02.04.2022



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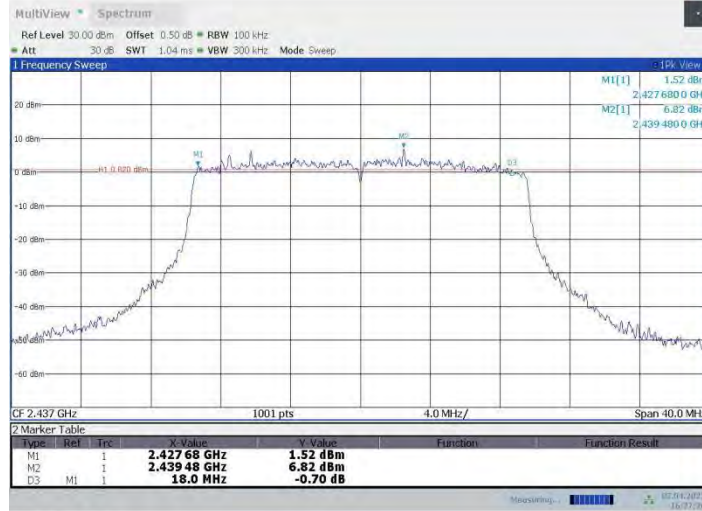
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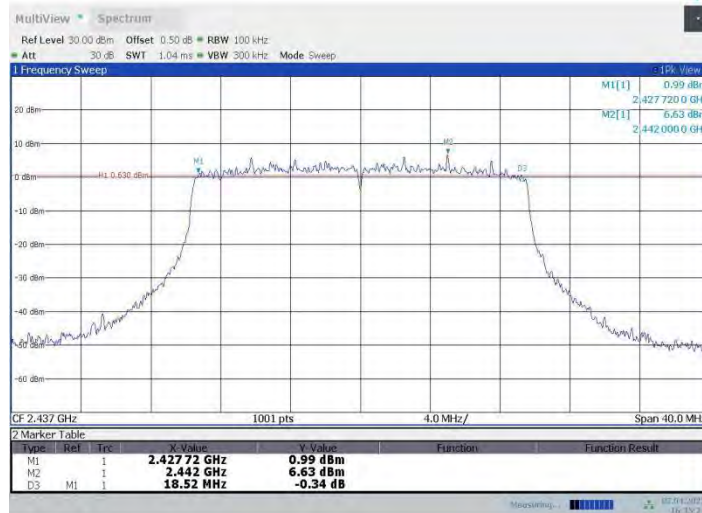
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### 11AX20MIMO\_Ant1\_2437



16:27:27 02.04.2022

### 11AX20MIMO\_Ant2\_2437



16:35:25 02.04.2022



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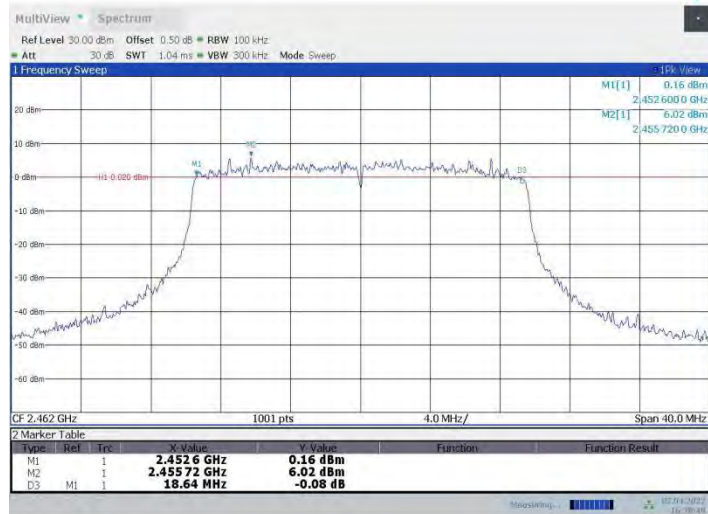
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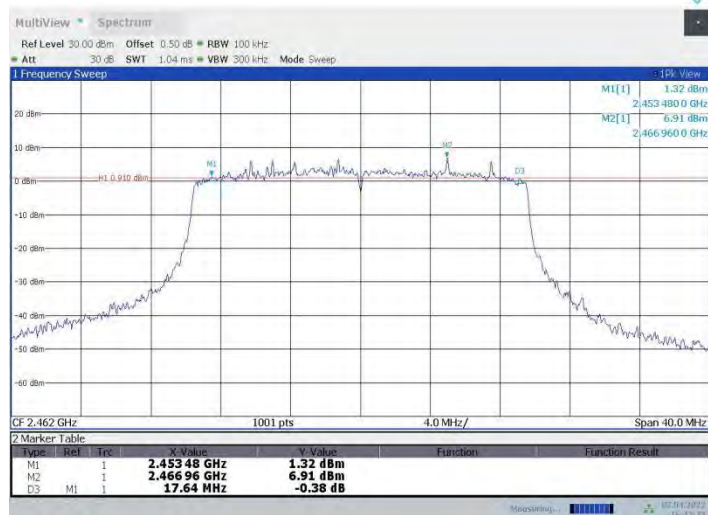
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### 11AX20MIMO\_Ant1\_2462



### 11AX20MIMO\_Ant2\_2462



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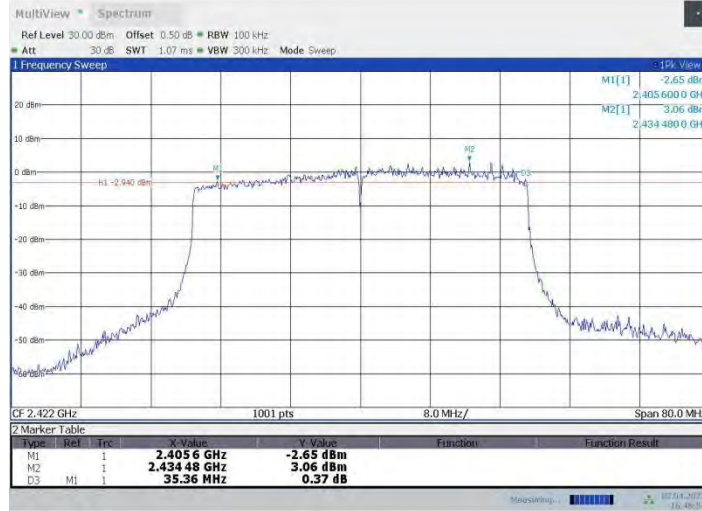


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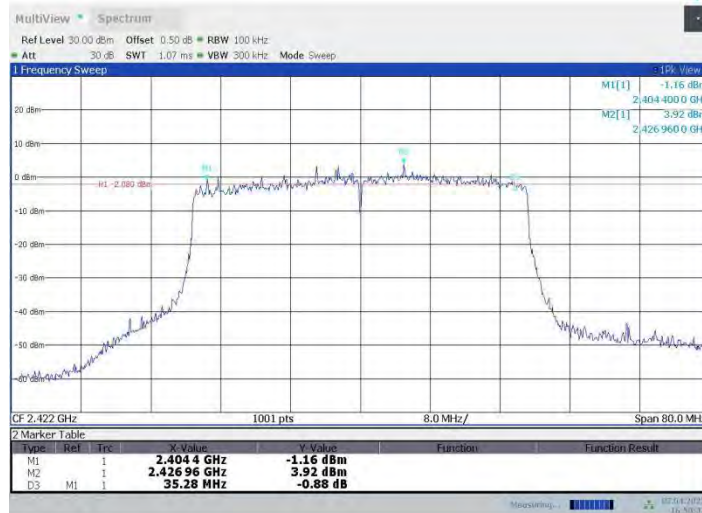
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### 11AX40MIMO\_Ant1\_2422



16:46:55 02.04.2022

### 11AX40MIMO\_Ant2\_2422



16:50:38 02.04.2022



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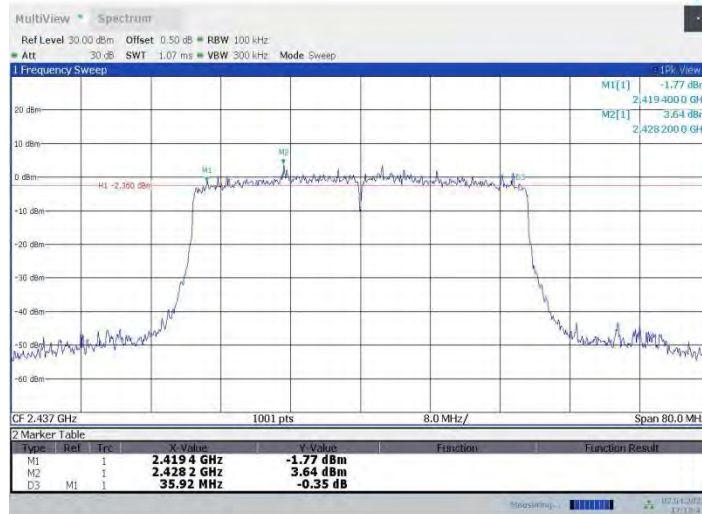


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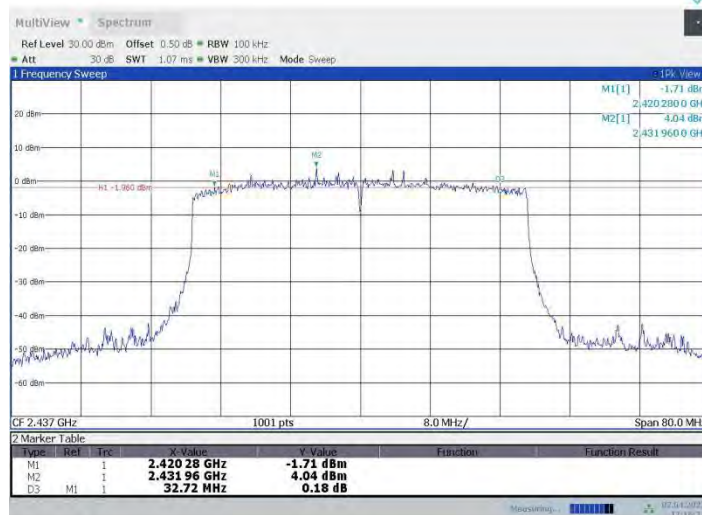
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### 11AX40MIMO\_Ant1\_2437



17:13:41 02.04.2022

### 11AX40MIMO\_Ant2\_2437



17:16:22 02.04.2022



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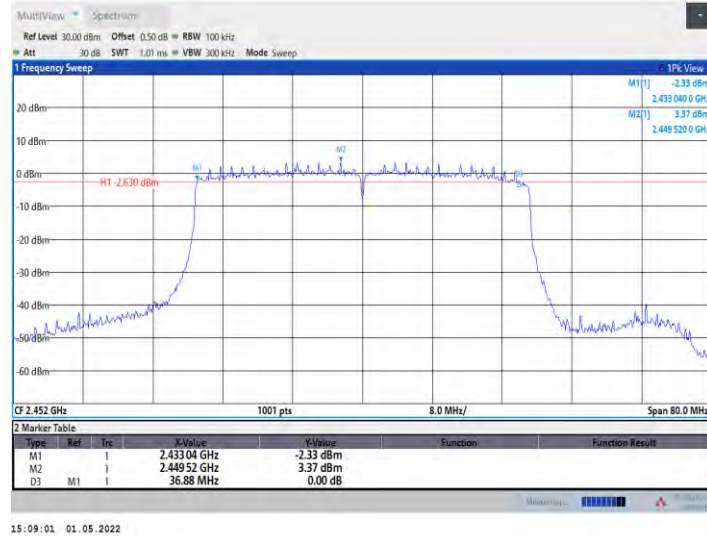
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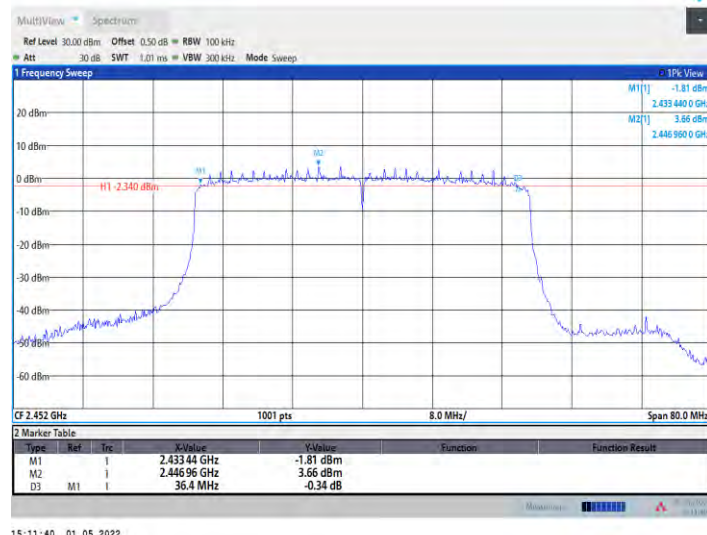
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### 11AX40MIMO\_Ant1\_2452



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### 11AX40MIMO\_Ant2\_2452



15:11:40 01.05.2022



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## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.147	2405.517	2418.664	---	---
	Ant2	2412	13.073	2405.535	2418.607	---	---
	Ant1	2437	12.948	2430.454	2443.403	---	---
	Ant2	2437	12.953	2430.475	2443.428	---	---
	Ant1	2462	12.967	2455.467	2468.434	---	---
	Ant2	2462	12.874	2455.493	2468.367	---	---
11G-CDD	Ant1	2412	16.598	2403.707	2420.304	---	---
	Ant2	2412	16.554	2403.753	2420.307	---	---
	Ant1	2437	16.497	2428.712	2445.209	---	---
	Ant2	2437	16.525	2428.689	2445.215	---	---
	Ant1	2462	16.5	2453.686	2470.186	---	---
	Ant2	2462	16.505	2453.701	2470.207	---	---
11N20MIMO	Ant1	2412	17.678	2403.190	2420.868	---	---
	Ant2	2412	17.702	2403.176	2420.877	---	---
	Ant1	2437	17.657	2428.142	2445.798	---	---
	Ant2	2437	17.653	2428.117	2445.769	---	---
	Ant1	2462	17.615	2453.131	2470.746	---	---
	Ant2	2462	17.641	2453.146	2470.787	---	---
11N40MIMO	Ant1	2422	35.989	2404.138	2440.127	---	---
	Ant2	2422	35.943	2404.144	2440.088	---	---
	Ant1	2437	35.97	2419.034	2455.003	---	---
	Ant2	2437	36	2419.046	2455.046	---	---
	Ant1	2452	36.005	2433.876	2469.881	---	---
	Ant2	2452	36.056	2433.895	2469.950	---	---
11AX20MIMO	Ant1	2412	18.983	2402.526	2421.510	---	---
	Ant2	2412	18.991	2402.525	2421.516	---	---
	Ant1	2437	18.959	2427.487	2446.446	---	---
	Ant2	2437	18.942	2427.504	2446.446	---	---
	Ant1	2462	18.895	2452.491	2471.386	---	---
	Ant2	2462	18.931	2452.495	2471.426	---	---
11AX40MIMO	Ant1	2422	37.664	2403.287	2440.951	---	---
	Ant2	2422	37.726	2403.226	2440.951	---	---
	Ant1	2437	37.737	2418.172	2455.909	---	---
	Ant2	2437	37.737	2418.190	2455.928	---	---
	Ant1	2452	37.764	2433.002	2470.766	---	---
	Ant2	2452	37.731	2433.043	2470.774	---	---



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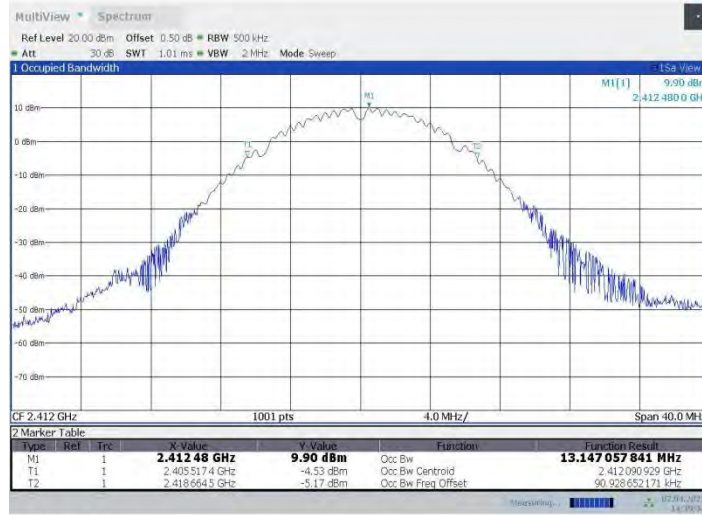
Report No.: SEWM2203000023RG03

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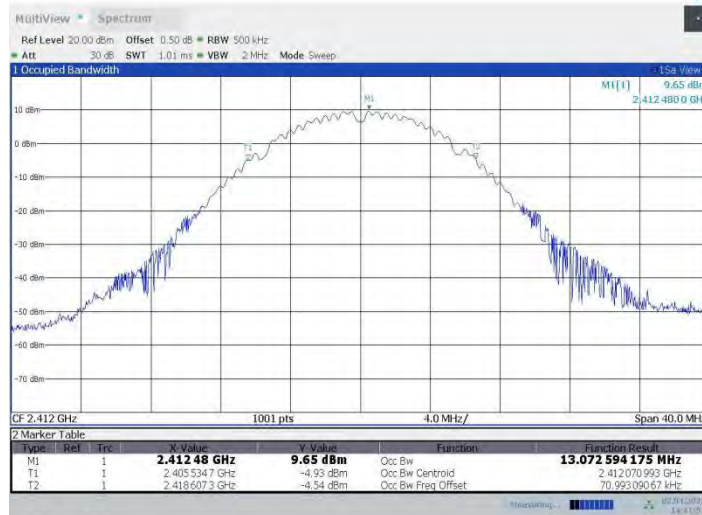
### Test Graphs

11B-CDD\_Ant1\_2412



14:39:34 02.04.2022

11B-CDD\_Ant2\_2412



14:41:58 02.04.2022



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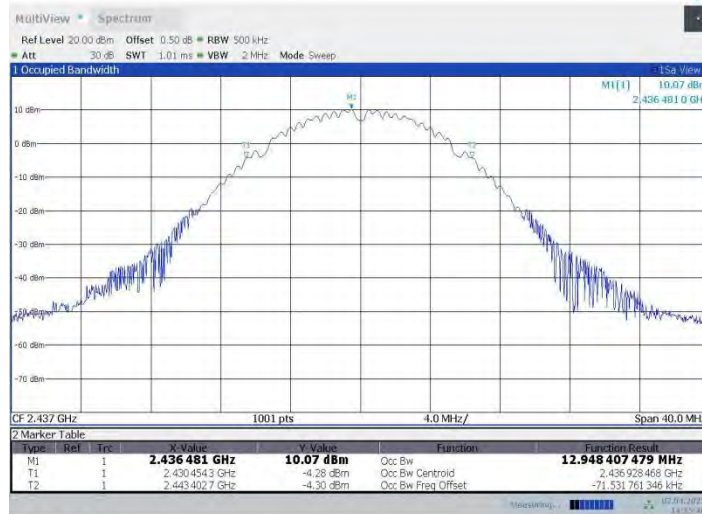


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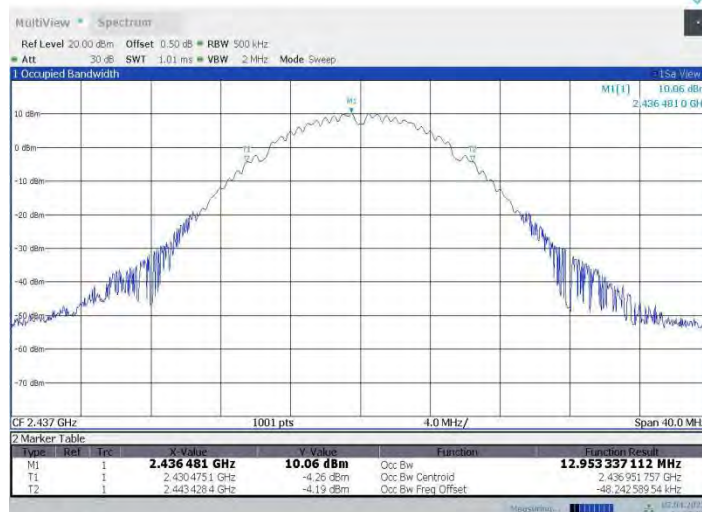
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### 11B-CDD Ant1 2437



14:55:47 02.04.2022

### 11B-CDD Ant2 2437



14:58:50 02.04.2022



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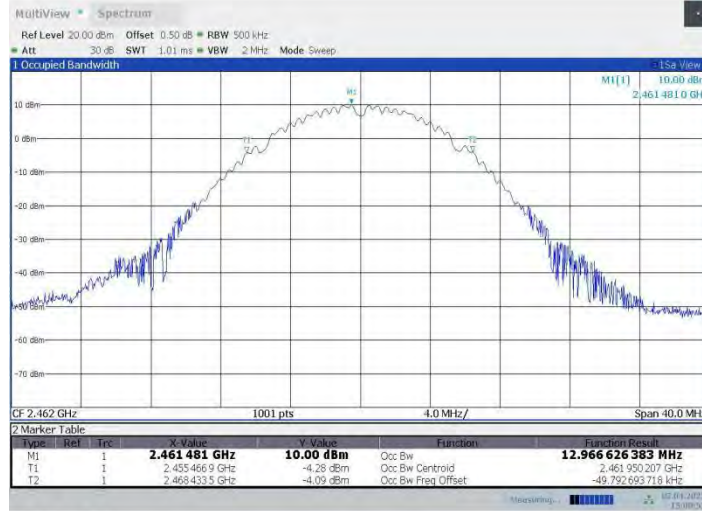
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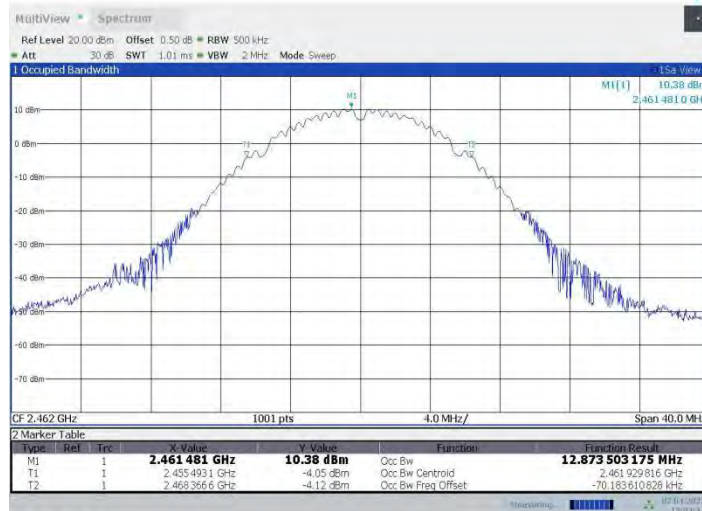
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### 11B-CDD Ant1 2462



15:00:56 02.04.2022

### 11B-CDD Ant2 2462



15:04:45 02.04.2022



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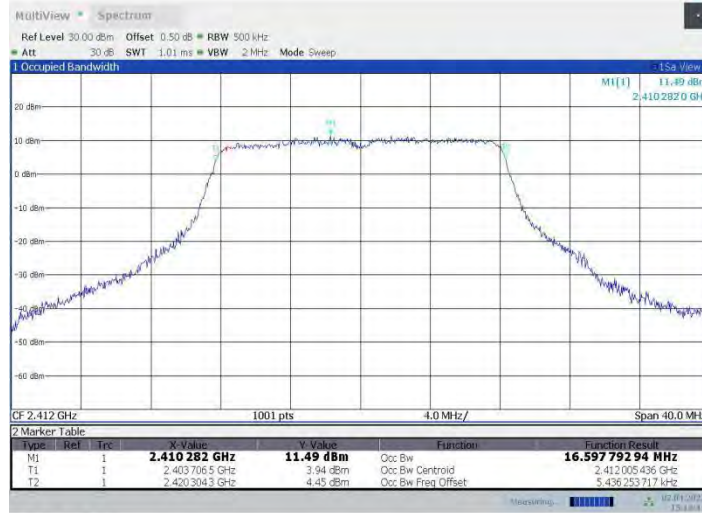
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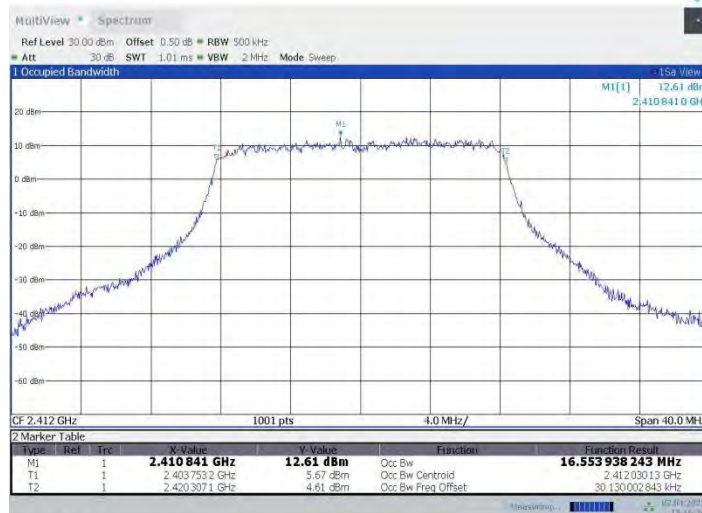
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### 11G-CDD Ant1 2412



15:13:42 02.04.2022

### 11G-CDD Ant2 2412



15:16:27 02.04.2022



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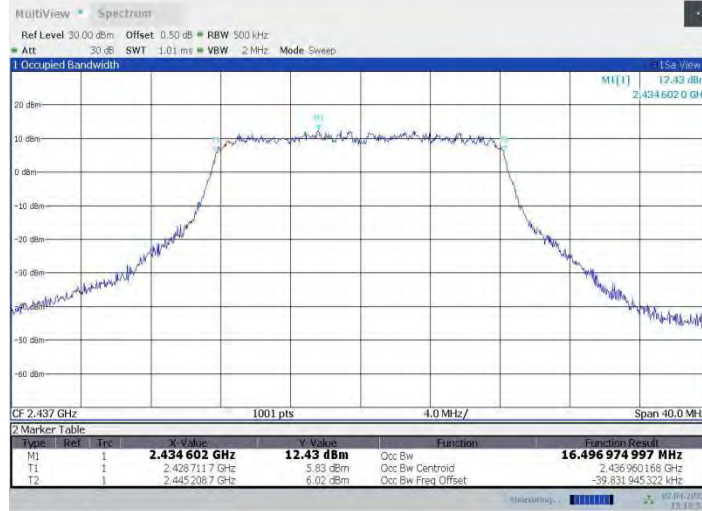


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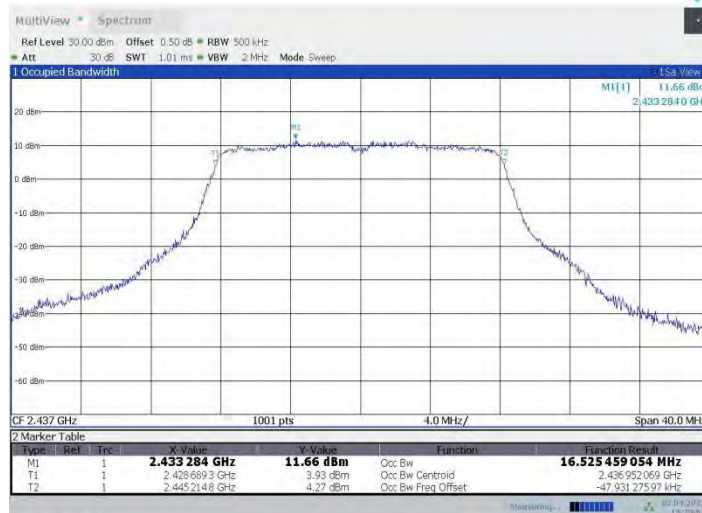
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### 11G-CDD Ant1 2437



15:18:53 02.04.2022

### 11G-CDD Ant2 2437



15:20:51 02.04.2022



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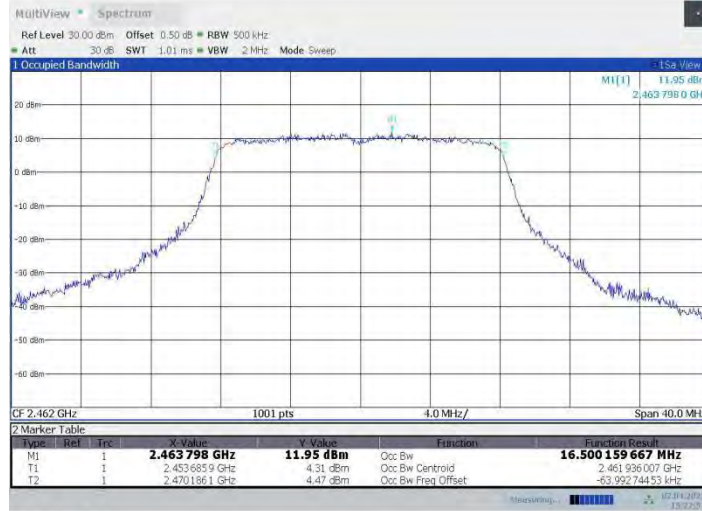


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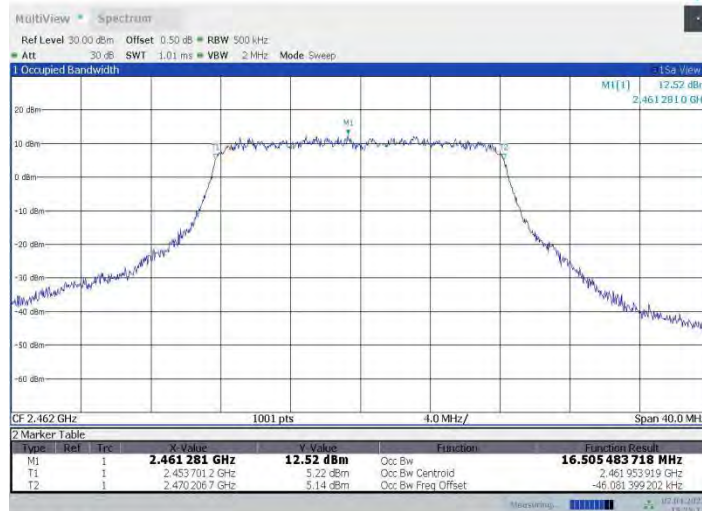
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### 11G-CDD Ant1 2462



### 11G-CDD Ant2 2462



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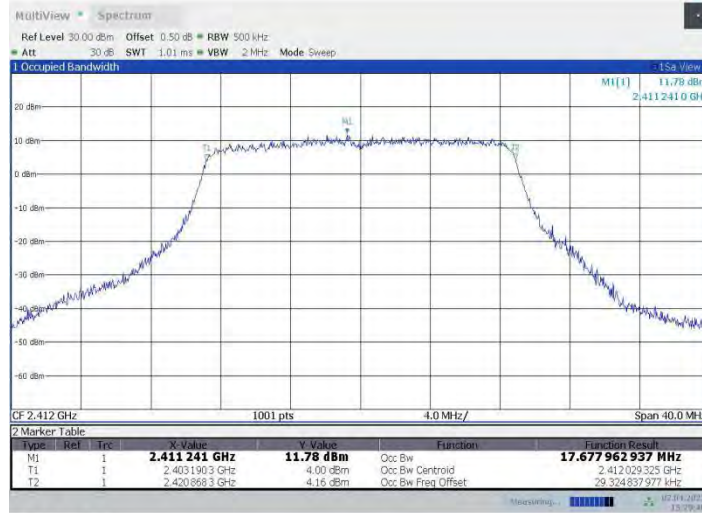
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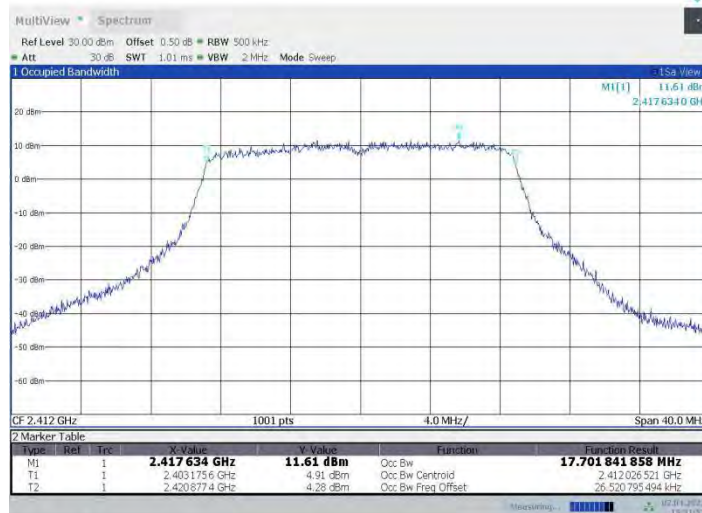
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### 11N20MIMO\_Ant1\_2412



15:29:40 02.04.2022

### 11N20MIMO\_Ant2\_2412



15:31:54 02.04.2022



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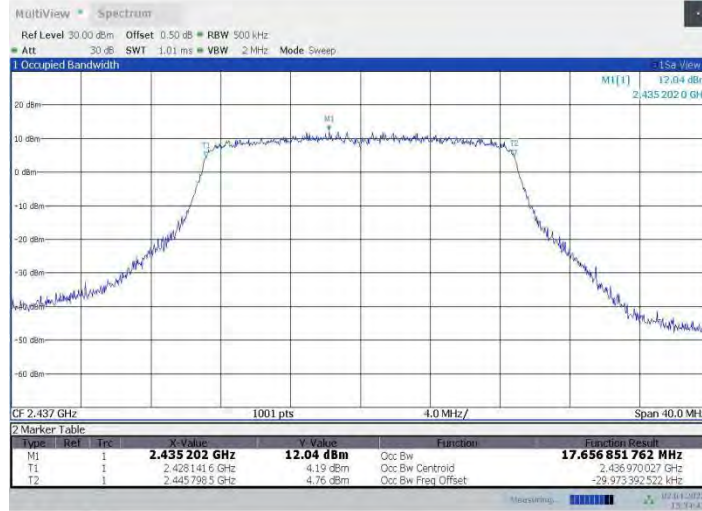
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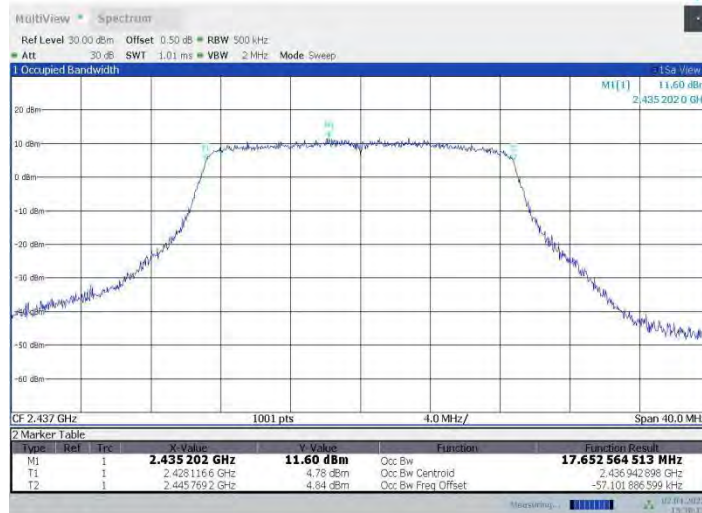
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### 11N20MIMO\_Ant1\_2437



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### 11N20MIMO\_Ant2\_2437



15:38:14 02.04.2022



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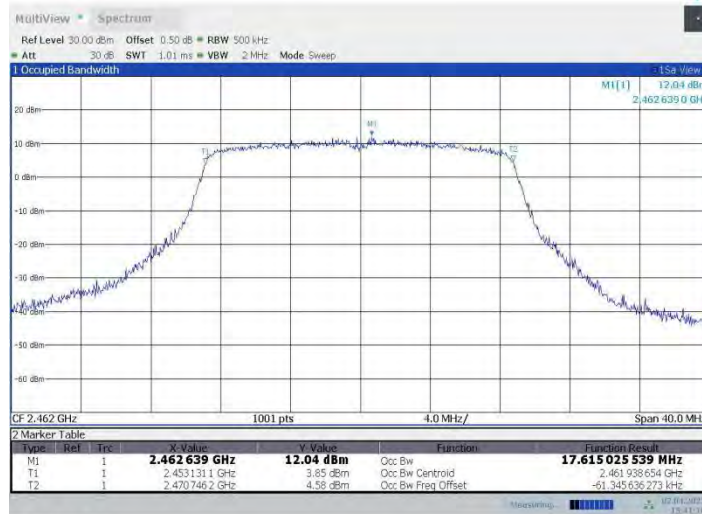


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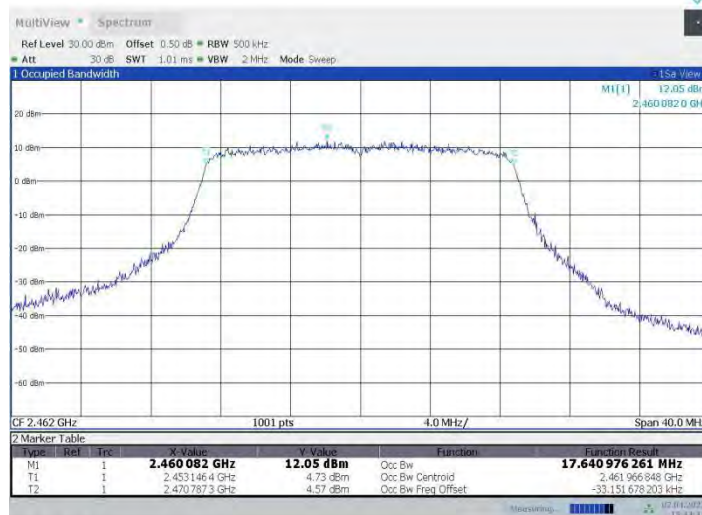
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### 11N20MIMO\_Ant1\_2462



15:41:19 02.04.2022

### 11N20MIMO\_Ant2\_2462



15:44:41 02.04.2022



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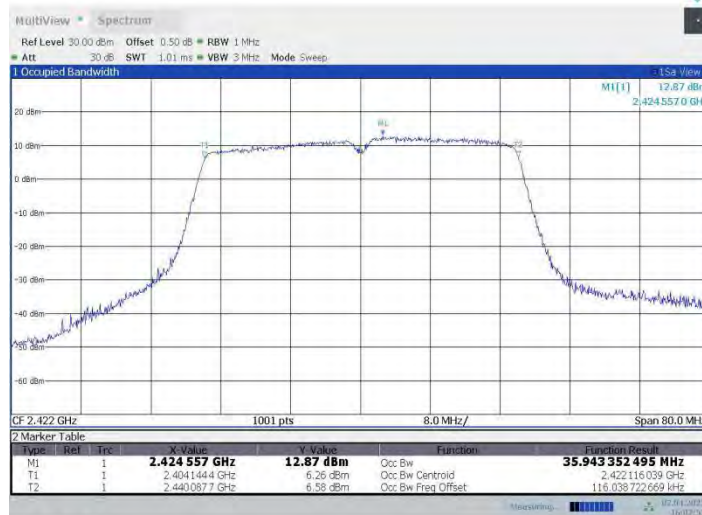
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### 11N40MIMO\_Ant1\_2422



16:00:08 02.04.2022

### 11N40MIMO\_Ant2\_2422



16:02:55 02.04.2022



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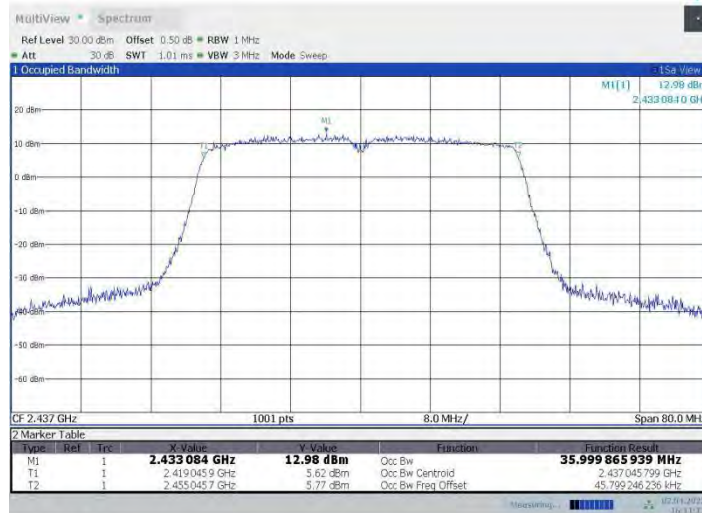
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### 11N40MIMO\_Ant1\_2437



16:08:20 02.04.2022

### 11N40MIMO\_Ant2\_2437



16:11:14 02.04.2022



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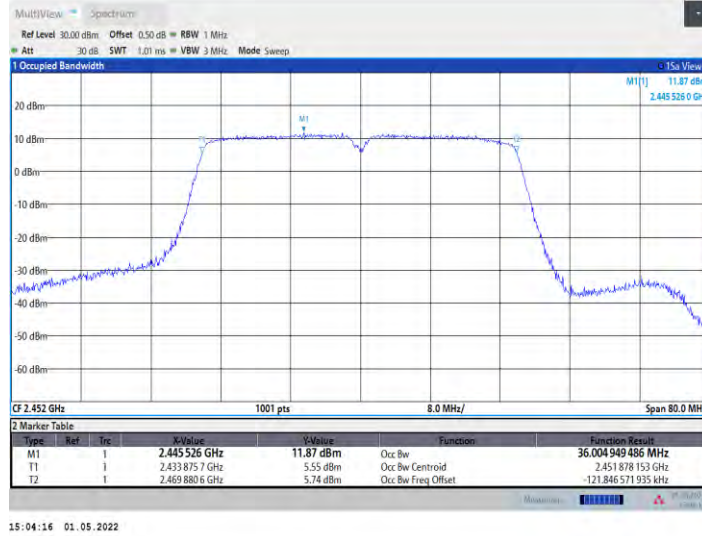
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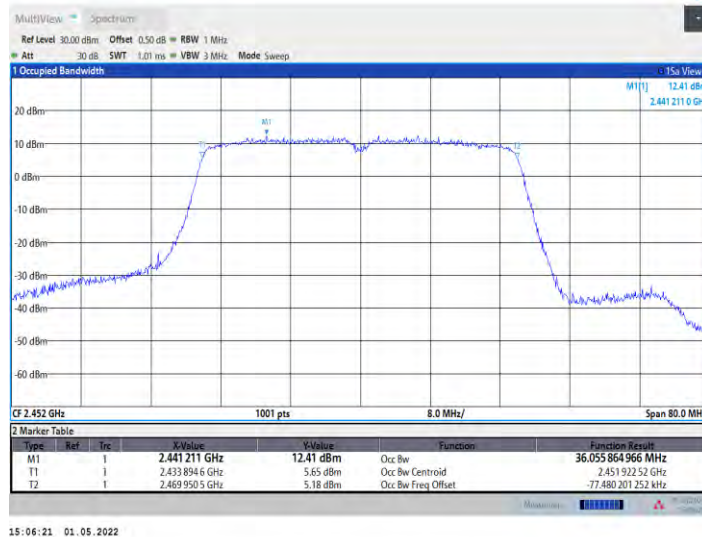
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### 11N40MIMO\_Ant1\_2452



### 11N40MIMO\_Ant2\_2452



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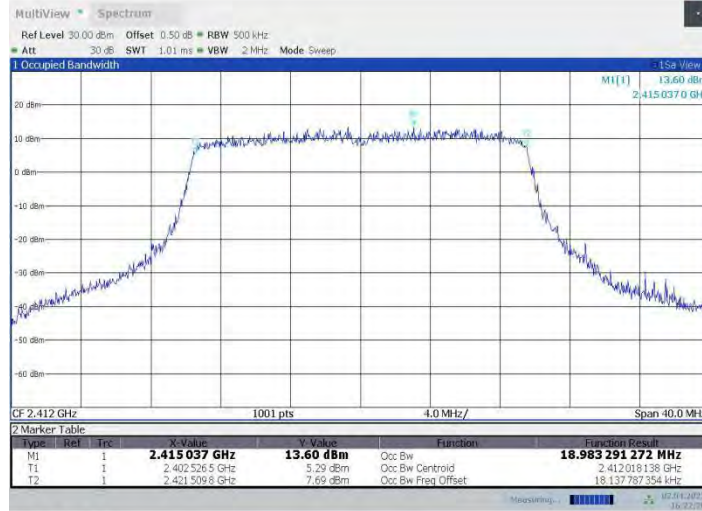


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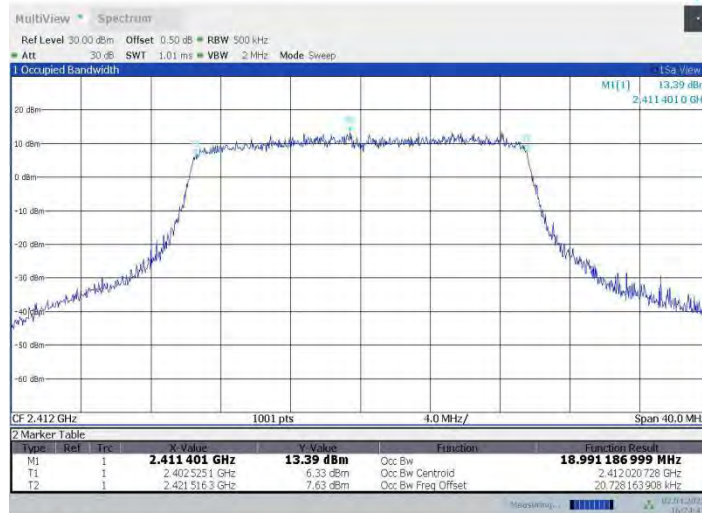
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### 11AX20MIMO\_Ant1\_2412



16:22:21 02.04.2022

### 11AX20MIMO\_Ant2\_2412



16:24:47 02.04.2022



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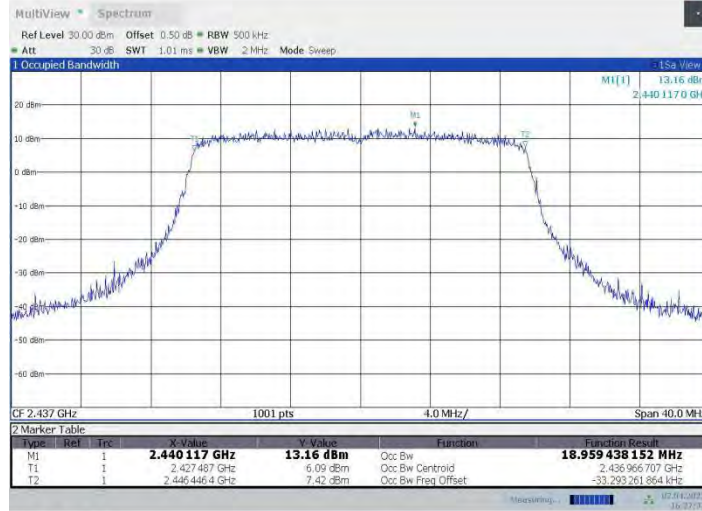


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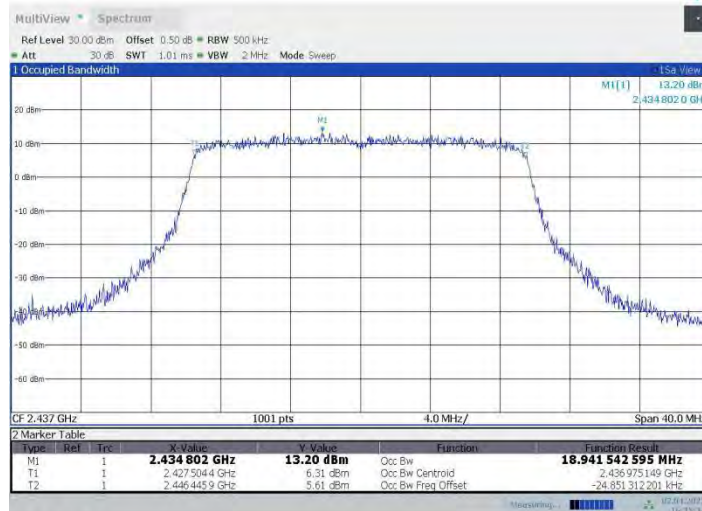
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### 11AX20MIMO\_Ant1\_2437



16:27:37 02.04.2022

### 11AX20MIMO\_Ant2\_2437



16:35:35 02.04.2022



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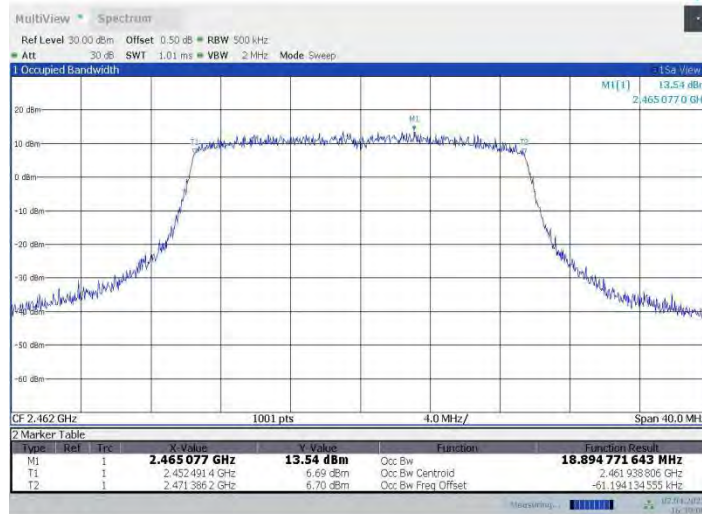
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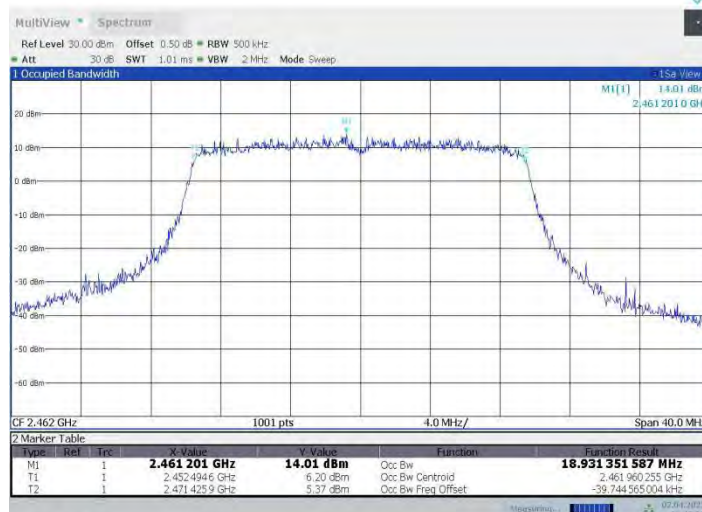
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### 11AX20MIMO\_Ant1\_2462



16:39:00 02.04.2022

### 11AX20MIMO\_Ant2\_2462



16:42:56 02.04.2022



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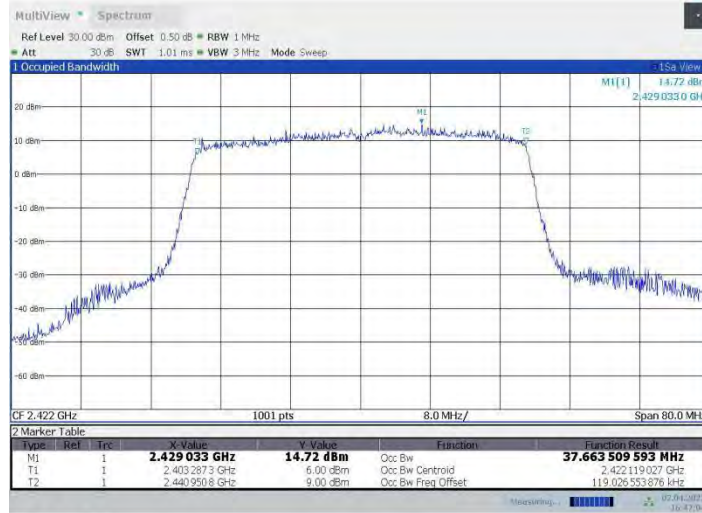
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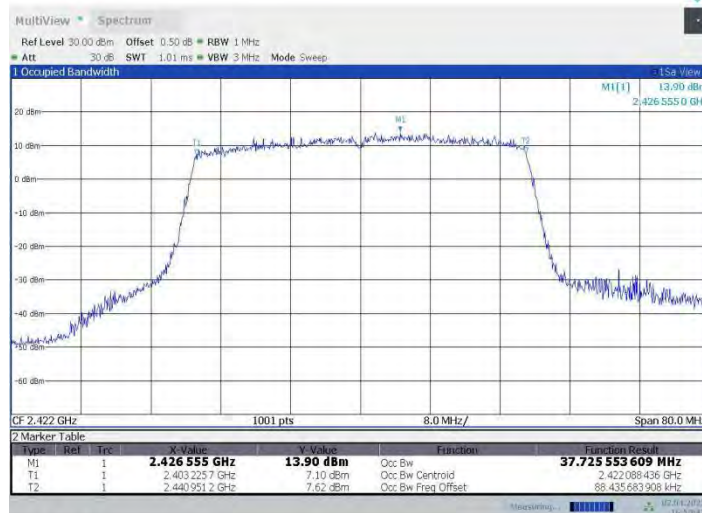
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### 11AX40MIMO\_Ant1\_2422



16:47:05 02.04.2022

### 11AX40MIMO\_Ant2\_2422



16:50:48 02.04.2022



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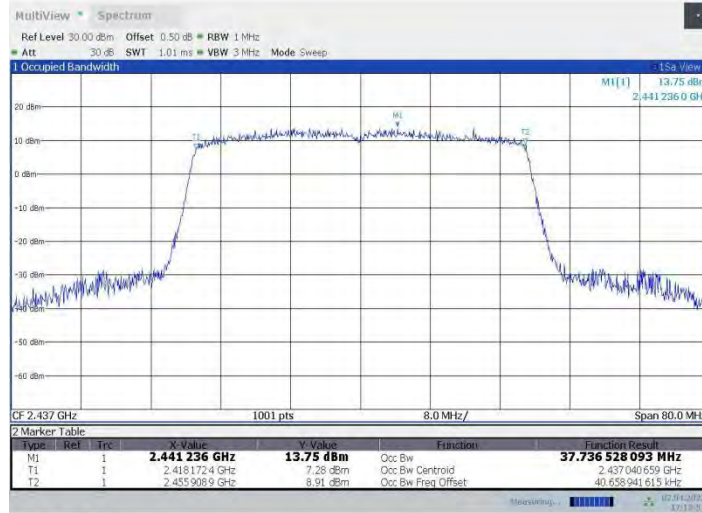


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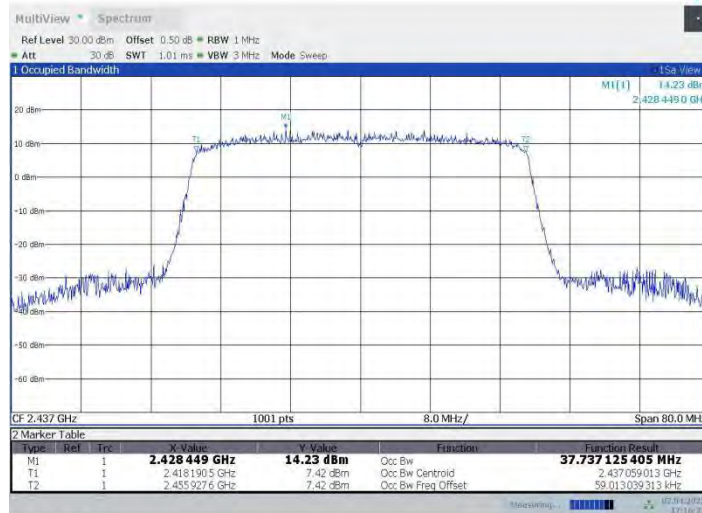
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### 11AX40MIMO\_Ant1\_2437



17:13:52 02.04.2022

### 11AX40MIMO\_Ant2\_2437



17:16:32 02.04.2022



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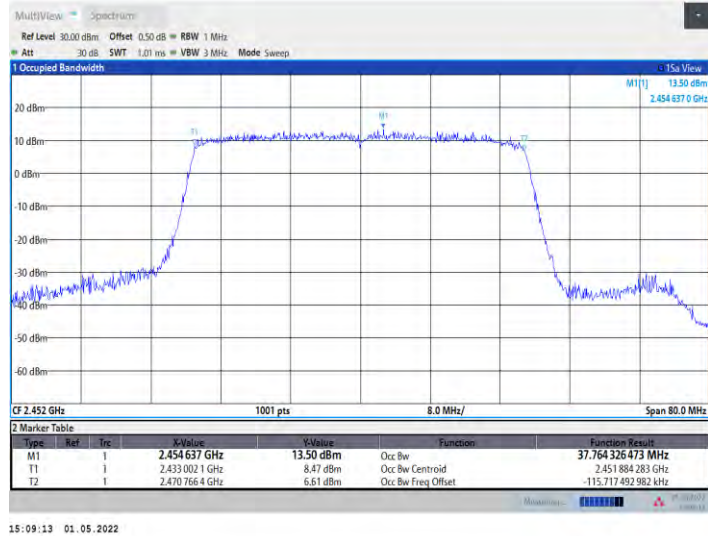


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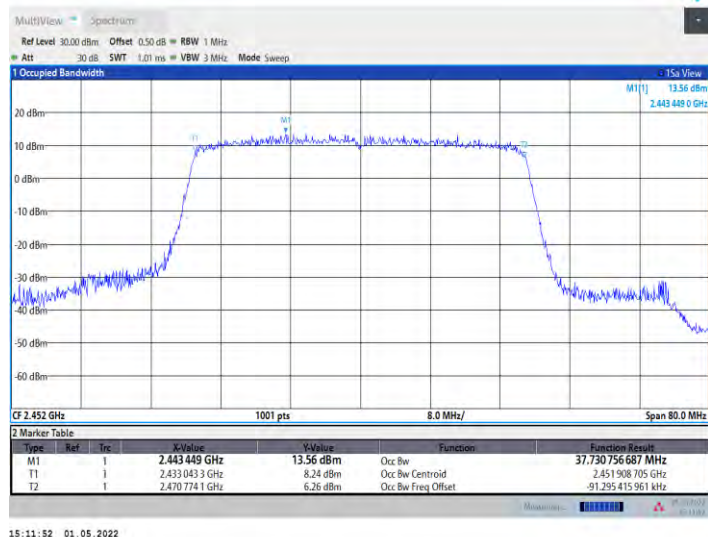
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### 11AX40MIMO\_Ant2\_2452



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## Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B-CDD	Ant1	2412	20.18	≤30.00	PASS
	Ant2	2412	19.90	≤30.00	PASS
	total	2412	23.05	≤30.00	PASS
	Ant1	2437	20.28	≤30.00	PASS
	Ant2	2437	20.26	≤30.00	PASS
	total	2437	23.28	≤30.00	PASS
	Ant1	2462	19.91	≤30.00	PASS
	Ant2	2462	20.16	≤30.00	PASS
	total	2462	23.05	≤30.00	PASS
11G-CDD	Ant1	2412	24.11	≤30.00	PASS
	Ant2	2412	24.15	≤30.00	PASS
	total	2412	27.14	≤30.00	PASS
	Ant1	2437	24.36	≤30.00	PASS
	Ant2	2437	24.34	≤30.00	PASS
	total	2437	27.36	≤30.00	PASS
	Ant1	2462	24.38	≤30.00	PASS
	Ant2	2462	24.28	≤30.00	PASS
	total	2462	27.34	≤30.00	PASS
11N20MIMO	Ant1	2412	23.92	≤30.00	PASS
	Ant2	2412	23.94	≤30.00	PASS
	total	2412	26.94	≤30.00	PASS
	Ant1	2437	24.15	≤30.00	PASS
	Ant2	2437	24.18	≤30.00	PASS
	total	2437	27.18	≤30.00	PASS
	Ant1	2462	24.08	≤30.00	PASS
	Ant2	2462	24.12	≤30.00	PASS
	total	2462	27.11	≤30.00	PASS
11N40MIMO	Ant1	2422	24.21	≤30.00	PASS
	Ant2	2422	24.49	≤30.00	PASS
	total	2422	27.36	≤30.00	PASS
	Ant1	2437	24.39	≤30.00	PASS
	Ant2	2437	24.33	≤30.00	PASS
	total	2437	27.37	≤30.00	PASS
	Ant1	2452	23.02	≤30.00	PASS
	Ant2	2452	22.92	≤30.00	PASS
	total	2452	25.98	≤30.00	PASS
11AX20MIMO	Ant1	2412	24.73	≤30.00	PASS
	Ant2	2412	24.79	≤30.00	PASS
	total	2412	27.77	≤30.00	PASS
	Ant1	2437	24.91	≤30.00	PASS
	Ant2	2437	24.94	≤30.00	PASS
	total	2437	27.94	≤30.00	PASS
	Ant1	2462	25.09	≤30.00	PASS
	Ant2	2462	24.75	≤30.00	PASS
	total	2462	27.93	≤30.00	PASS
11AX40MIMO	Ant1	2422	24.81	≤30.00	PASS
	Ant2	2422	24.39	≤30.00	PASS
	total	2422	27.62	≤30.00	PASS
	Ant1	2437	24.65	≤30.00	PASS
	Ant2	2437	24.29	≤30.00	PASS



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	total	2437	27.48	≤30.00	PASS
	Ant1	2452	23.32	≤30.00	PASS
	Ant2	2452	23.29	≤30.00	PASS
	total	2452	26.32	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11AX20MIMO	Ant1	2412	26Tone	RU0	25.42	≤30.00	PASS
			52Tone	RU37	25.45	≤30.00	PASS
			106Tone	RU53	25.75	≤30.00	PASS
	Ant2	2412	26Tone	RU0	25.40	≤30.00	PASS
			52Tone	RU37	25.62	≤30.00	PASS
			106Tone	RU53	25.76	≤30.00	PASS
	total	2412	26Tone	RU0	28.42	≤30.00	PASS
			52Tone	RU37	28.55	≤30.00	PASS
			106Tone	RU53	28.77	≤30.00	PASS
	Ant1	2437	26Tone	RU4	24.94	≤30.00	PASS
			52Tone	RU38	25.98	≤30.00	PASS
			106Tone	RU53	26.14	≤30.00	PASS
	Ant2	2437	26Tone	RU4	24.82	≤30.00	PASS
			52Tone	RU38	26.05	≤30.00	PASS
			106Tone	RU53	26.21	≤30.00	PASS
	total	2437	26Tone	RU4	27.89	≤30.00	PASS
			52Tone	RU38	29.03	≤30.00	PASS
			106Tone	RU53	29.19	≤30.00	PASS
	Ant1	2462	26Tone	RU8	24.90	≤30.00	PASS
			52Tone	RU40	25.93	≤30.00	PASS
			106Tone	RU54	26.15	≤30.00	PASS
	Ant2	2462	26Tone	RU8	24.89	≤30.00	PASS
			52Tone	RU40	26.04	≤30.00	PASS
			106Tone	RU54	26.14	≤30.00	PASS
	total	2462	26Tone	RU8	27.91	≤30.00	PASS
			52Tone	RU40	29.00	≤30.00	PASS
			106Tone	RU54	29.16	≤30.00	PASS
11AX40MIMO	Ant1	2422	242Tone	RU61	23.21	≤30.00	PASS
	Ant2	2422	242Tone	RU61	23.20	≤30.00	PASS
	total	2422	242Tone	RU61	26.22	≤30.00	PASS
	Ant1	2437	242Tone	RU61	23.65	≤30.00	PASS
	Ant2	2437	242Tone	RU61	23.59	≤30.00	PASS
	total	2437	242Tone	RU61	26.63	≤30.00	PASS
	Ant1	2452	242Tone	RU62	22.21	≤30.00	PASS
	Ant2	2452	242Tone	RU62	22.25	≤30.00	PASS
	total	2452	242Tone	RU62	25.24	≤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-CDD	Ant1	2412	-5.5	≤8.00	PASS
	Ant2	2412	-5.58	≤8.00	PASS
	total	2412	-2.53	≤8.00	PASS
	Ant1	2437	-5.36	≤8.00	PASS
	Ant2	2437	-5.37	≤8.00	PASS
	total	2437	-2.35	≤8.00	PASS
	Ant1	2462	-6.06	≤8.00	PASS
	Ant2	2462	-5.81	≤8.00	PASS
	total	2462	-2.92	≤8.00	PASS
11G-CDD	Ant1	2412	-7.89	≤8.00	PASS
	Ant2	2412	-7.52	≤8.00	PASS
	total	2412	-4.69	≤8.00	PASS
	Ant1	2437	-8.69	≤8.00	PASS
	Ant2	2437	-7.96	≤8.00	PASS
	total	2437	-5.30	≤8.00	PASS
	Ant1	2462	-8.03	≤8.00	PASS
	Ant2	2462	-8.51	≤8.00	PASS
	total	2462	-5.25	≤8.00	PASS
11N20MIMO	Ant1	2412	-7.7	≤8.00	PASS
	Ant2	2412	-7.19	≤8.00	PASS
	total	2412	-4.43	≤8.00	PASS
	Ant1	2437	-6.81	≤8.00	PASS
	Ant2	2437	-7.51	≤8.00	PASS
	total	2437	-4.14	≤8.00	PASS
	Ant1	2462	-7.42	≤8.00	PASS
	Ant2	2462	-7.4	≤8.00	PASS
	total	2462	-4.40	≤8.00	PASS
11N40MIMO	Ant1	2422	-9.97	≤8.00	PASS
	Ant2	2422	-9.24	≤8.00	PASS
	total	2422	-6.58	≤8.00	PASS
	Ant1	2437	-11.03	≤8.00	PASS
	Ant2	2437	-11.06	≤8.00	PASS
	total	2437	-8.03	≤8.00	PASS
	Ant1	2452	-14.37	≤8.00	PASS
	Ant2	2452	-13.82	≤8.00	PASS
	total	2452	-11.08	≤8.00	PASS
11AX20MIMO	Ant1	2412	-8.86	≤8.00	PASS
	Ant2	2412	-9.09	≤8.00	PASS
	total	2412	-5.96	≤8.00	PASS
	Ant1	2437	-8.72	≤8.00	PASS
	Ant2	2437	-8.52	≤8.00	PASS
	total	2437	-5.61	≤8.00	PASS
	Ant1	2462	-7.89	≤8.00	PASS
	Ant2	2462	-8.68	≤8.00	PASS
	total	2462	-5.26	≤8.00	PASS
11AX40MIMO	Ant1	2422	-10.99	≤8.00	PASS
	Ant2	2422	-11.51	≤8.00	PASS
	total	2422	-8.23	≤8.00	PASS
	Ant1	2437	-10.78	≤8.00	PASS
	Ant2	2437	-11.16	≤8.00	PASS



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	total	2437	-7.96	≤8.00	PASS
	Ant1	2452	-14.66	≤8.00	PASS
	Ant2	2452	-15.14	≤8.00	PASS
	total	2452	-11.88	≤8.00	PASS

TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11AX20MIMO	Ant1	2412	26Tone	RU0	-0.89	≤8.00	PASS
			52Tone	RU37	-2.43	≤8.00	PASS
			106Tone	RU53	-5.2	≤8.00	PASS
	Ant2	2412	26Tone	RU0	-0.96	≤8.00	PASS
			52Tone	RU37	-2.31	≤8.00	PASS
			106Tone	RU53	-5.31	≤8.00	PASS
	total	2412	26Tone	RU0	2.09	≤8.00	PASS
			52Tone	RU37	0.64	≤8.00	PASS
			106Tone	RU53	-2.24	≤8.00	PASS
	Ant1	2437	26Tone	RU4	-0.43	≤8.00	PASS
			52Tone	RU38	-1.7	≤8.00	PASS
			106Tone	RU53	-5.21	≤8.00	PASS
	Ant2	2437	26Tone	RU4	-0.36	≤8.00	PASS
			52Tone	RU38	-1.71	≤8.00	PASS
			106Tone	RU53	-5.13	≤8.00	PASS
	total	2437	26Tone	RU4	2.62	≤8.00	PASS
			52Tone	RU38	1.31	≤8.00	PASS
			106Tone	RU53	-2.16	≤8.00	PASS
	Ant1	2462	26Tone	RU8	-0.83	≤8.00	PASS
			52Tone	RU40	-0.63	≤8.00	PASS
			106Tone	RU54	-4.62	≤8.00	PASS
	Ant2	2462	26Tone	RU8	-0.75	≤8.00	PASS
			52Tone	RU40	-0.59	≤8.00	PASS
			106Tone	RU54	-4.61	≤8.00	PASS
	total	2462	26Tone	RU8	2.22	≤8.00	PASS
			52Tone	RU40	2.40	≤8.00	PASS
			106Tone	RU54	-1.60	≤8.00	PASS
11AX40MIMO	Ant1	2422	242Tone	RU61	-9.76	≤8.00	PASS
	Ant2	2422	242Tone	RU61	-9.82	≤8.00	PASS
	total	2422	242Tone	RU61	-6.78	≤8.00	PASS
	Ant1	2437	242Tone	RU61	-10.1	≤8.00	PASS
	Ant2	2437	242Tone	RU61	-10.13	≤8.00	PASS
	total	2437	242Tone	RU61	-7.10	≤8.00	PASS
	Ant1	2452	242Tone	RU62	-10.47	≤8.00	PASS
	Ant2	2452	242Tone	RU62	-10.48	≤8.00	PASS
	total	2452	242Tone	RU62	-7.46	≤8.00	PASS



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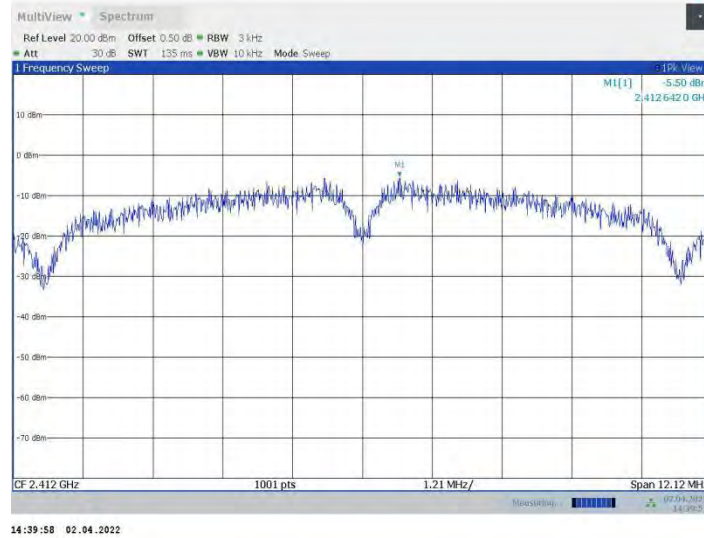
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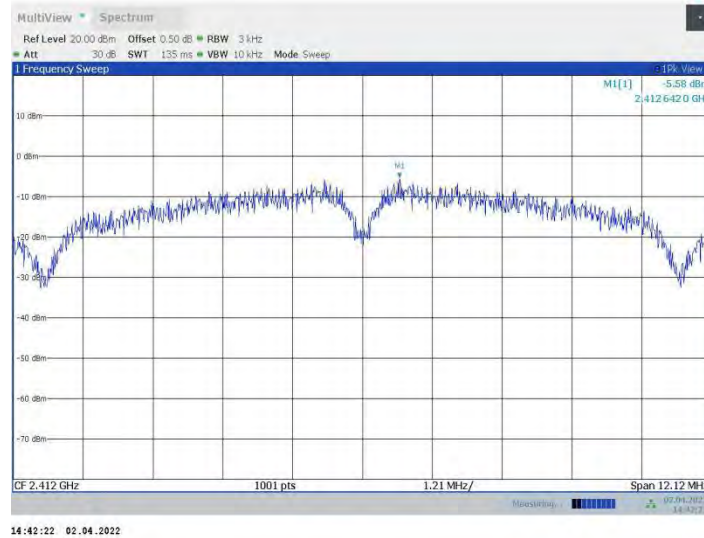
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### Test Graphs

11B-CDD\_Ant1\_2412



11B-CDD\_Ant2\_2412



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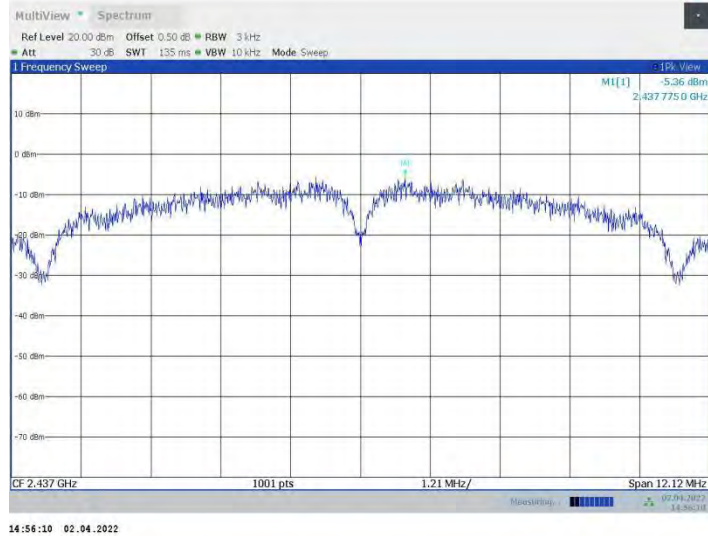
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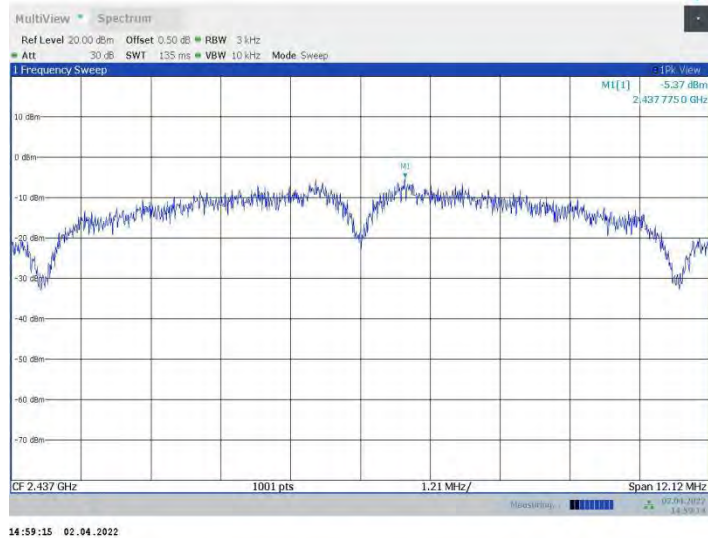
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### 11B-CDD\_Ant1\_2437



### 11B-CDD\_Ant2\_2437



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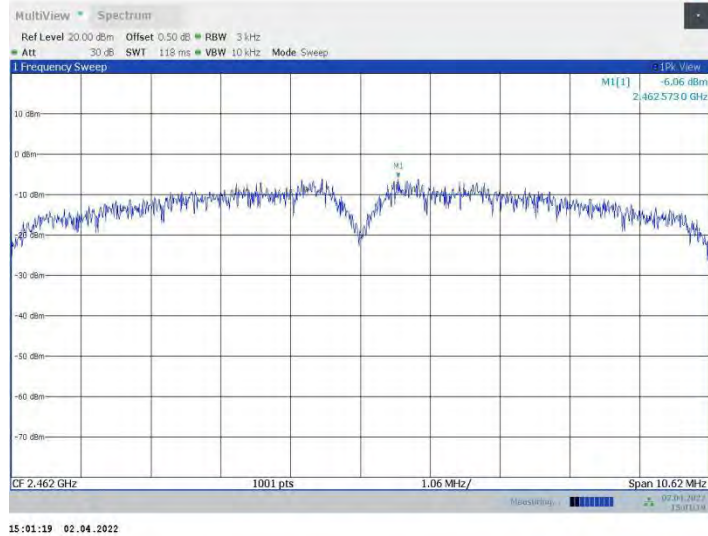


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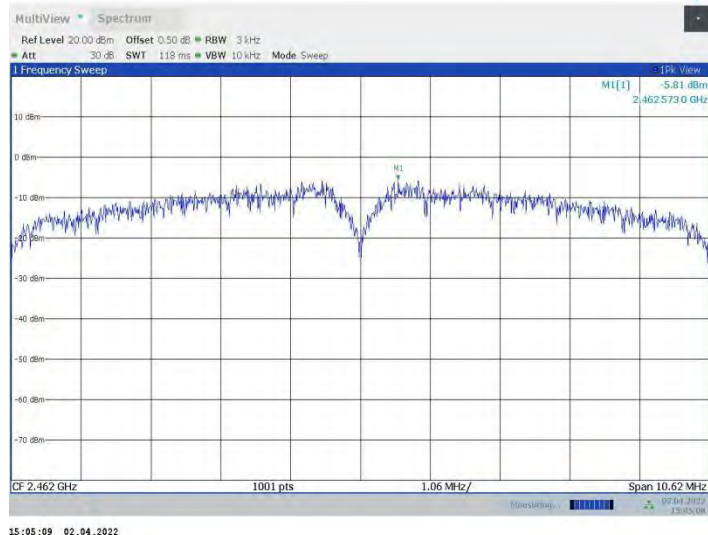
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### 11B-CDD\_Ant1\_2462



### 11B-CDD\_Ant2\_2462



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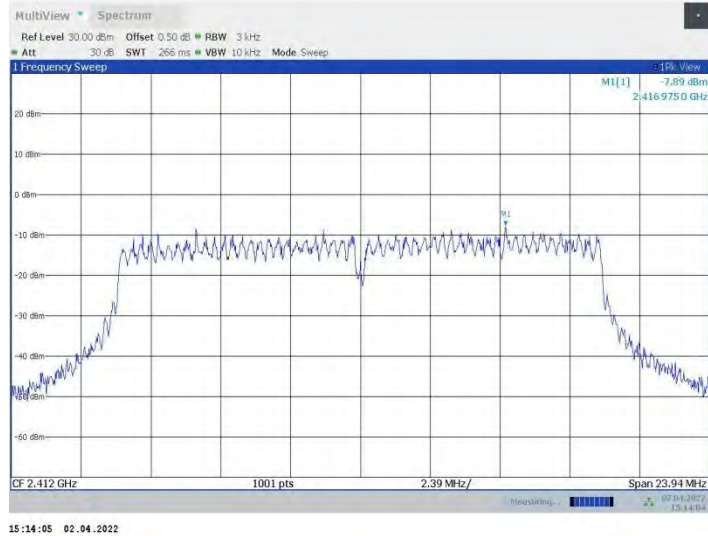


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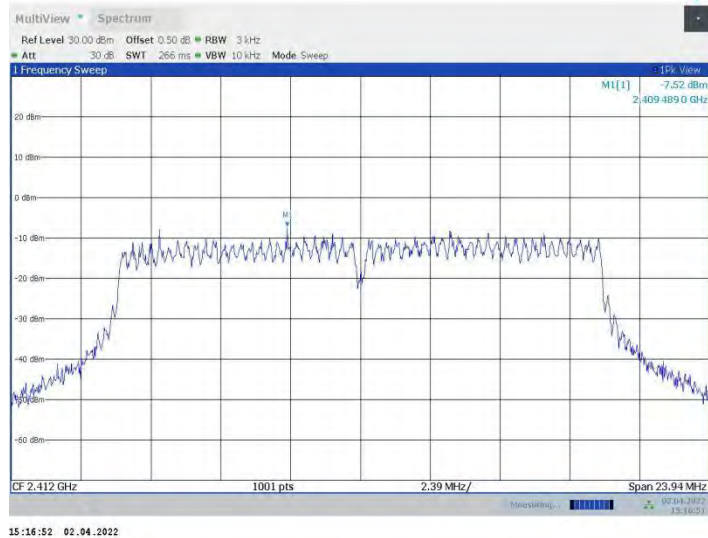
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### 11G-CDD\_Ant1\_2412



### 11G-CDD\_Ant2\_2412



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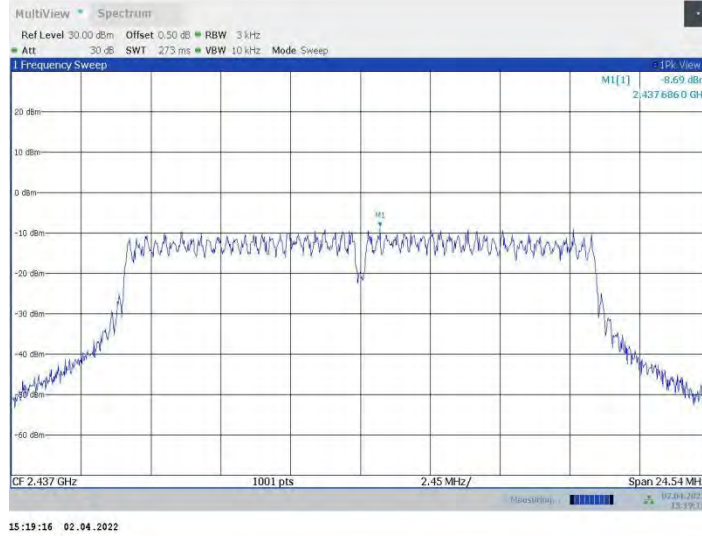
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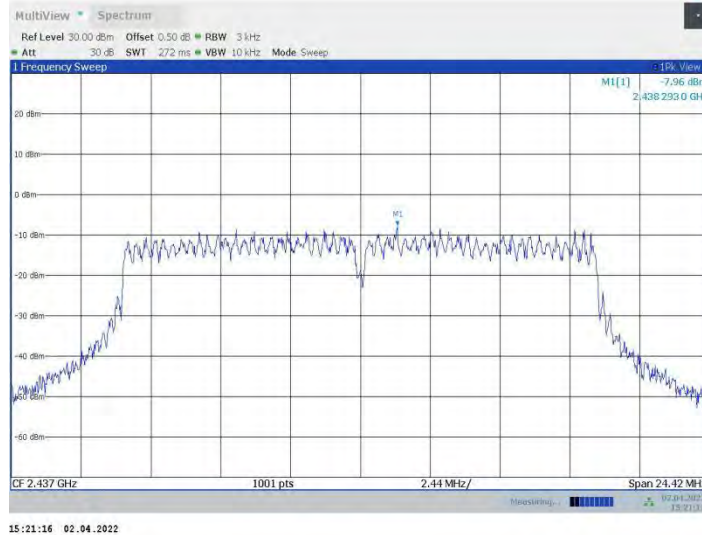
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### 11G-CDD\_Ant1\_2437



### 11G-CDD\_Ant2\_2437



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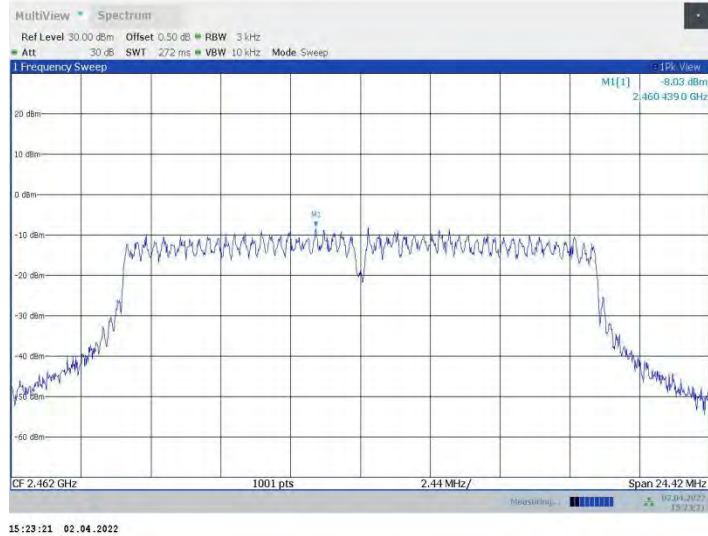
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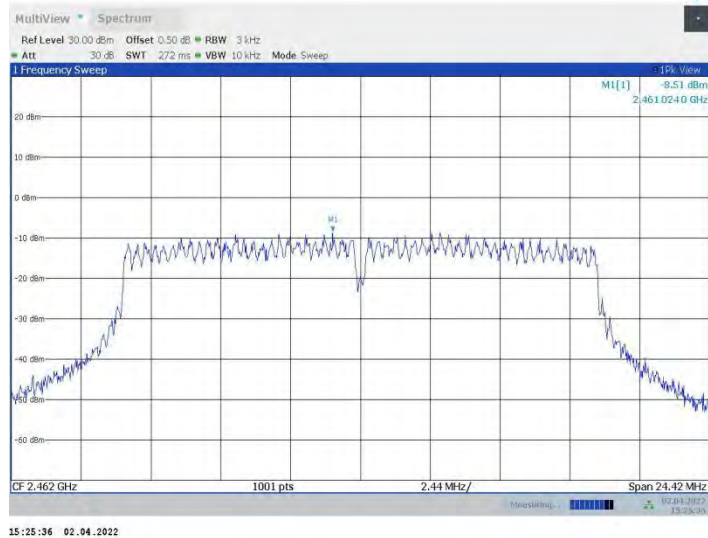
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### 11G-CDD Ant1 2462



### 11G-CDD Ant2 2462



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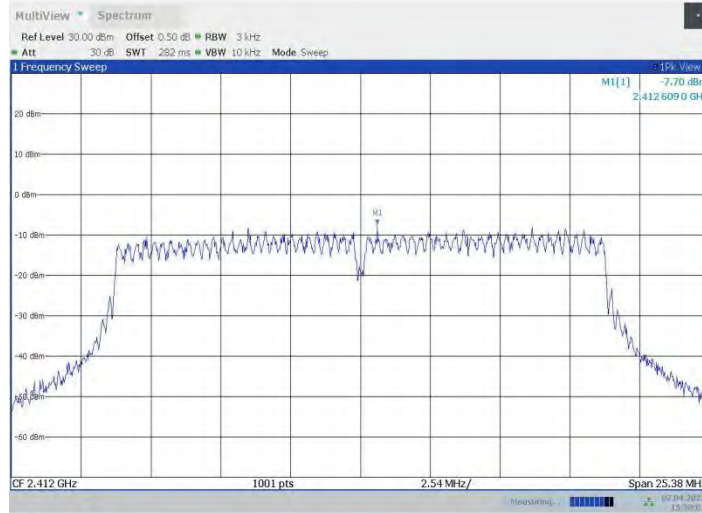


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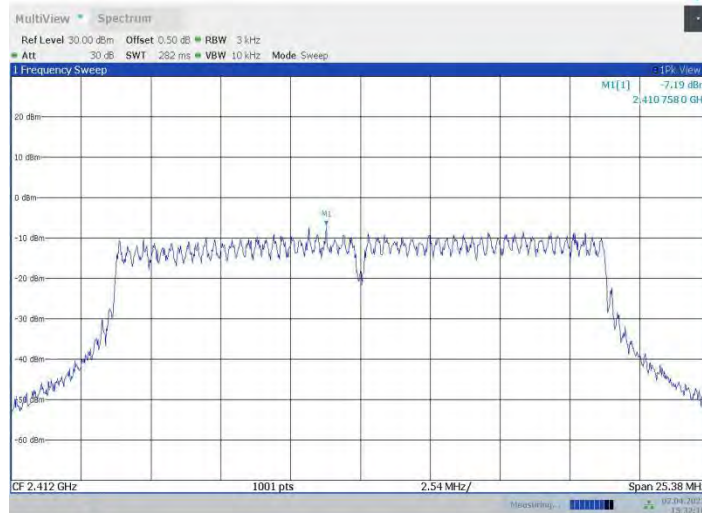
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### 11N20MIMO\_Ant1\_2412



### 11N20MIMO\_Ant2\_2412



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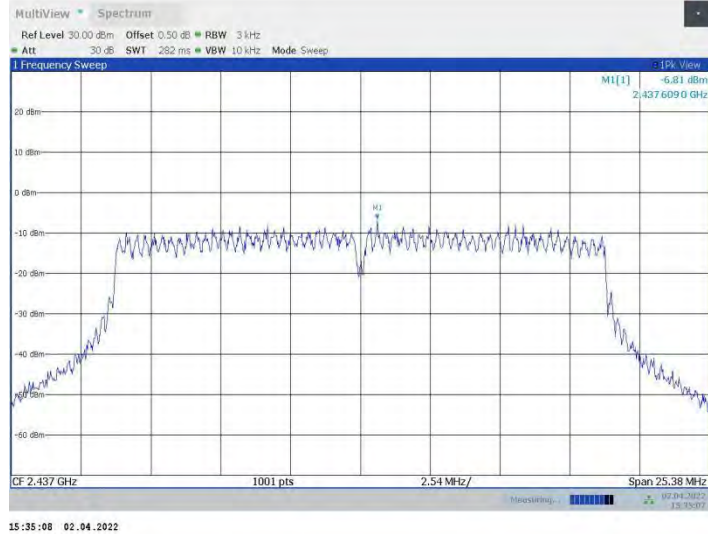


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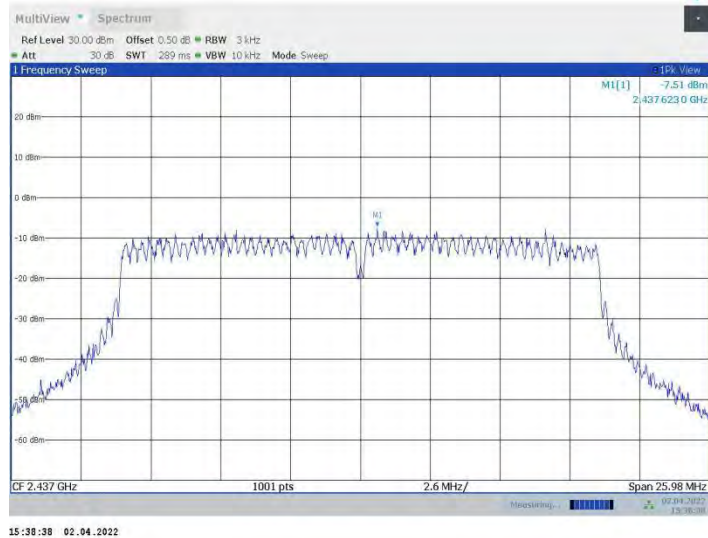
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### 11N20MIMO\_Ant1\_2437



### 11N20MIMO\_Ant2\_2437



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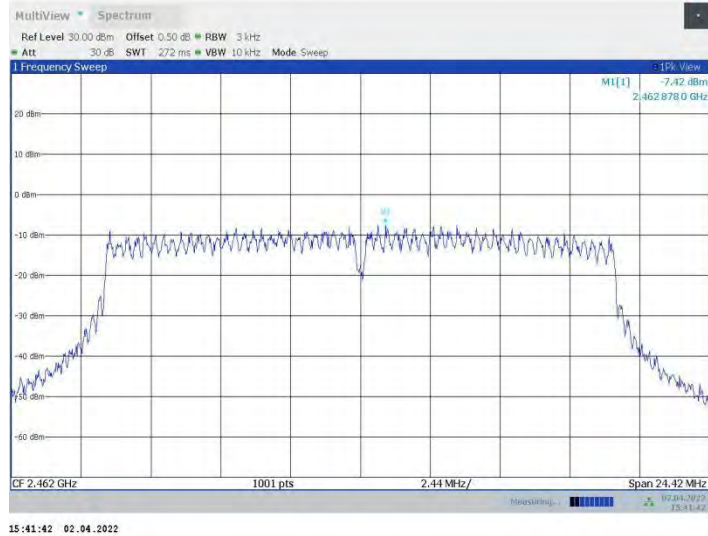
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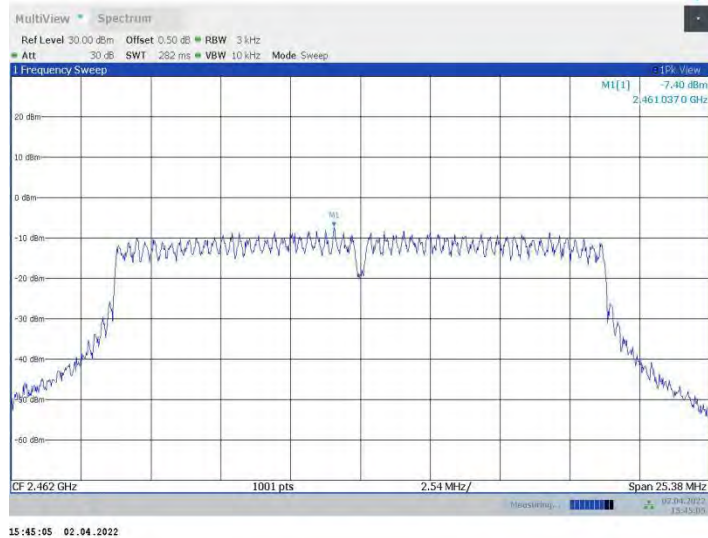
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### 11N20MIMO\_Ant1\_2462



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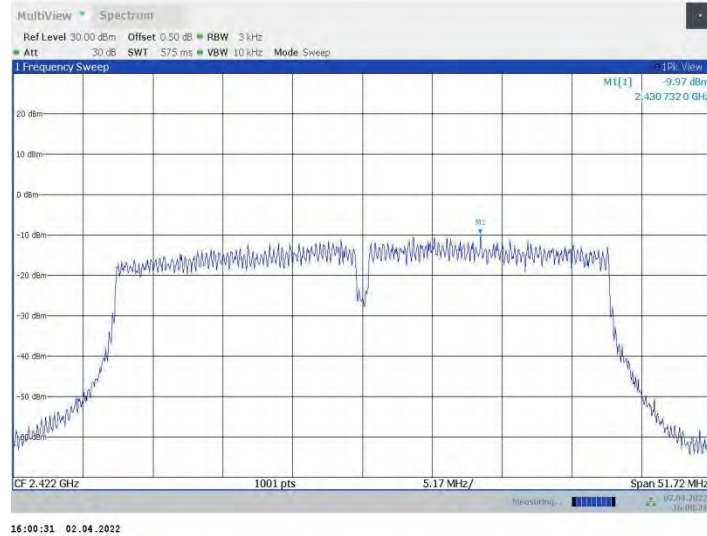
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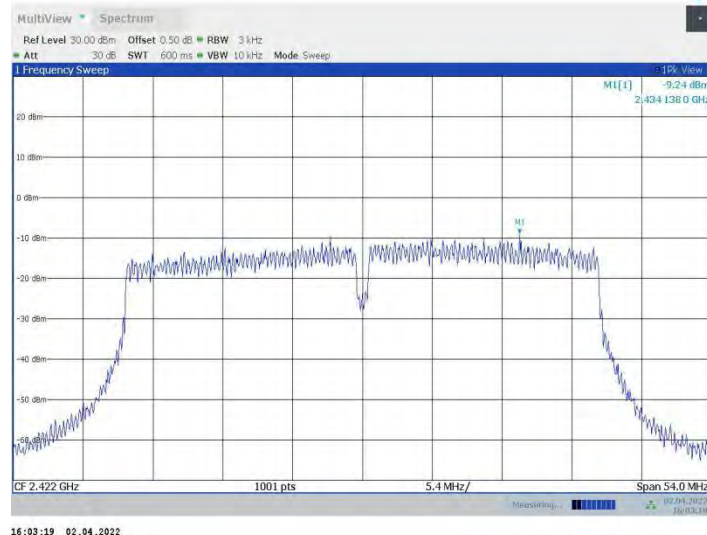
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### 11N40MIMO\_Ant1\_2422



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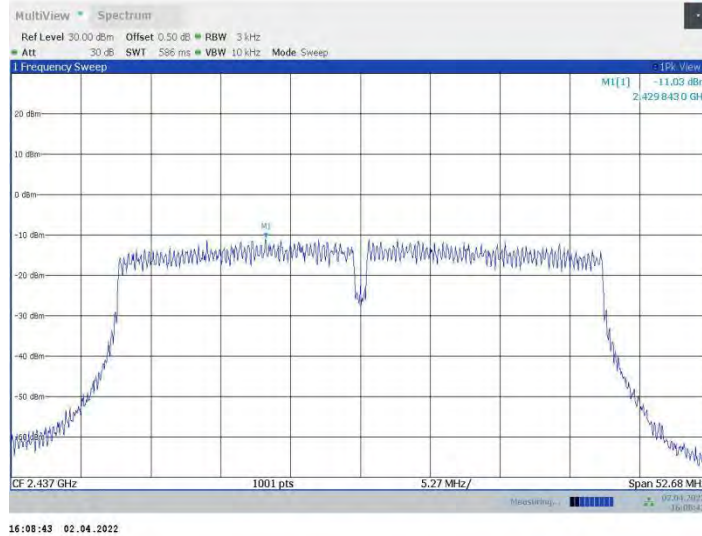


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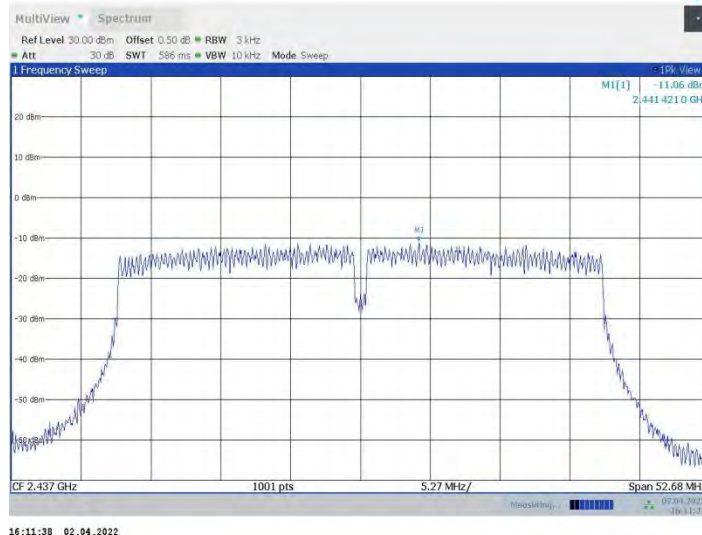
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### 11N40MIMO\_Ant1\_2437



### 11N40MIMO\_Ant2\_2437



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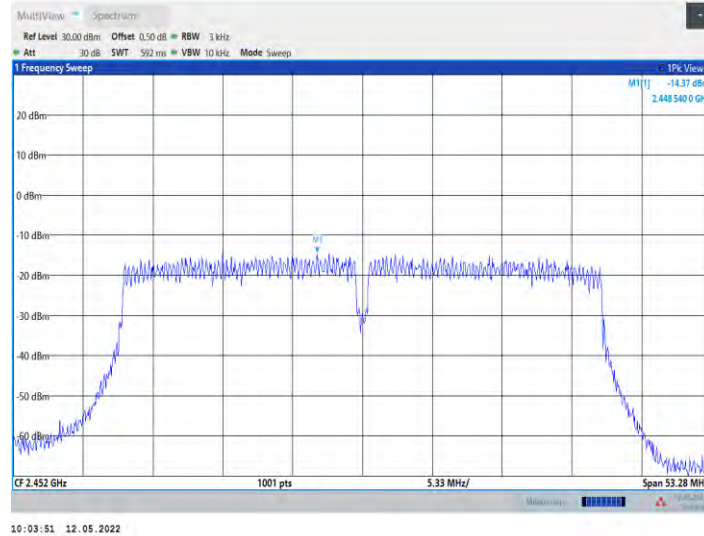


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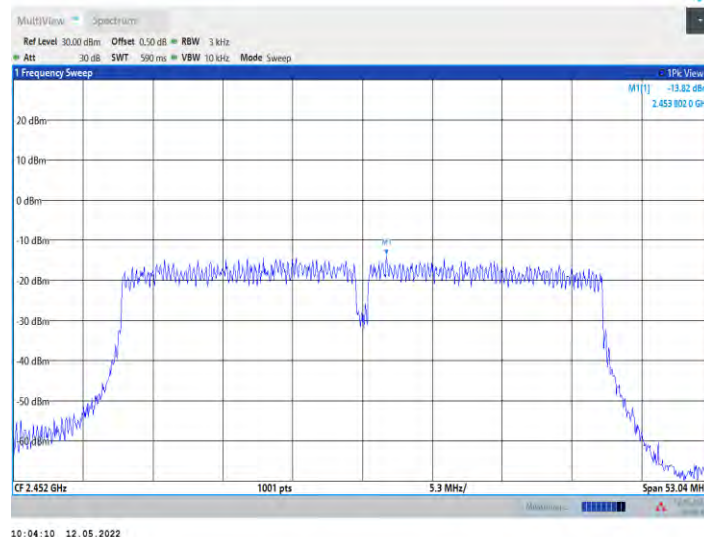
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### 11N40MIMO\_Ant1\_2452



### 11N40MIMO\_Ant2\_2452



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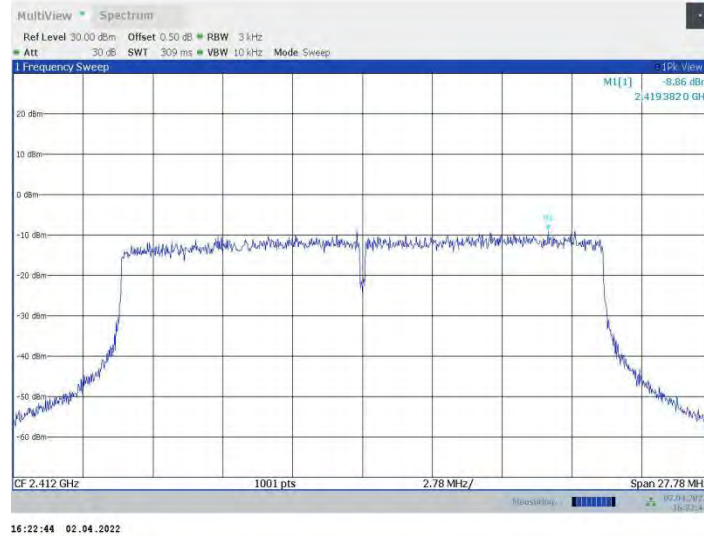
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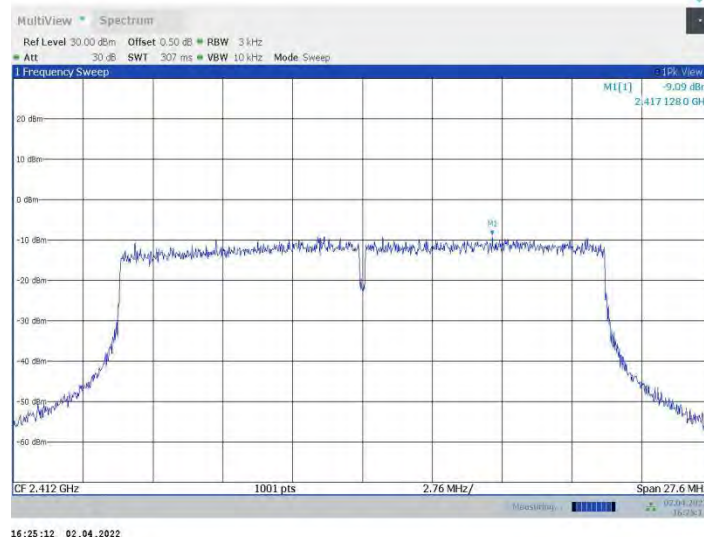
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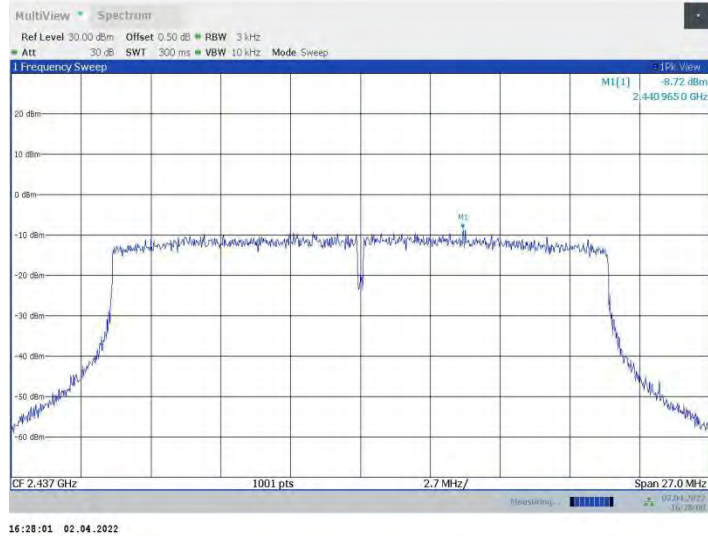
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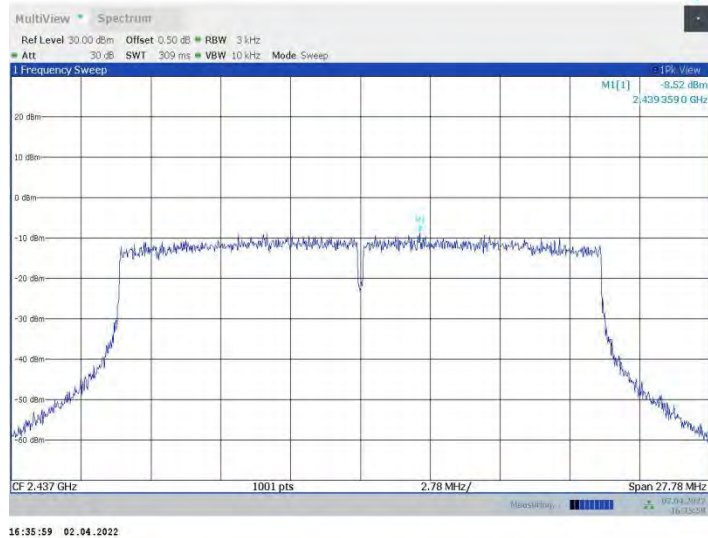
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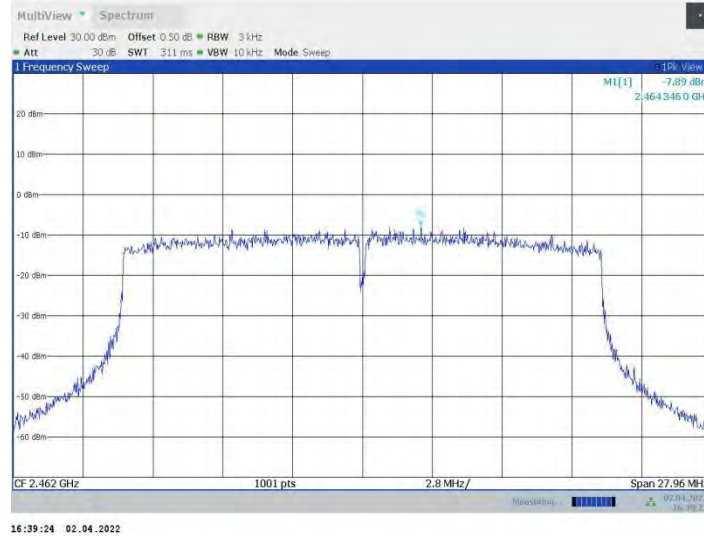


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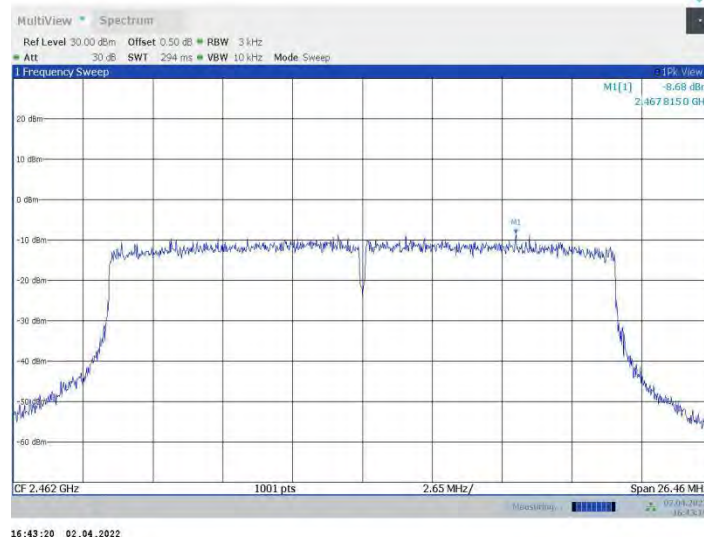
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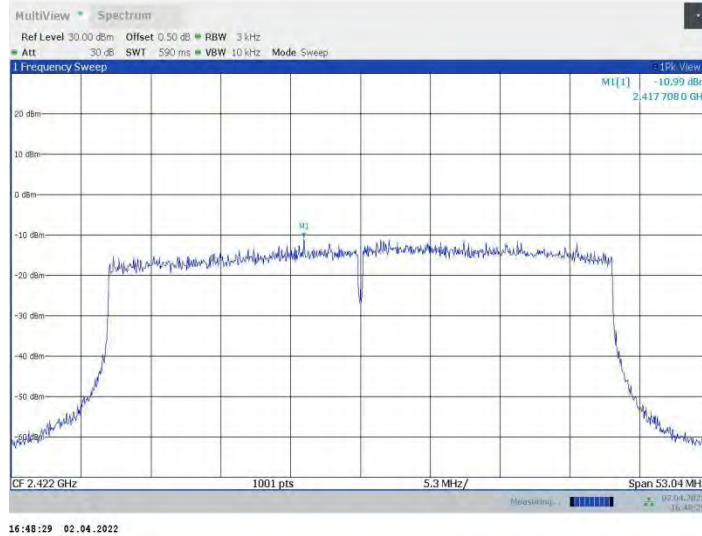


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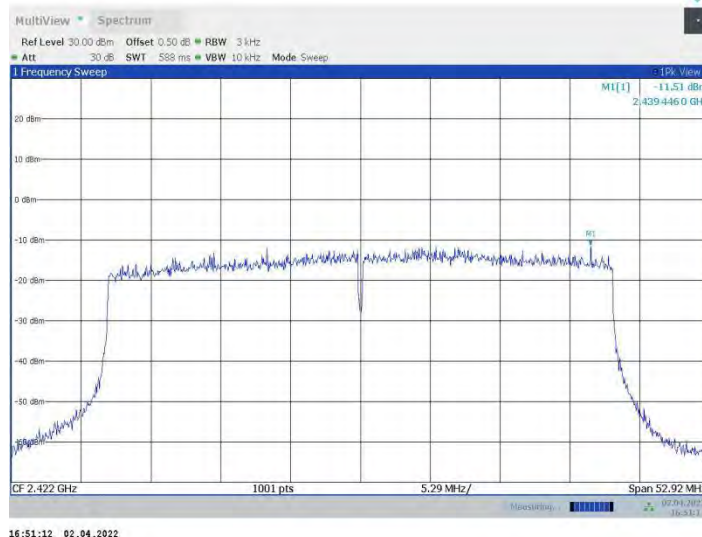
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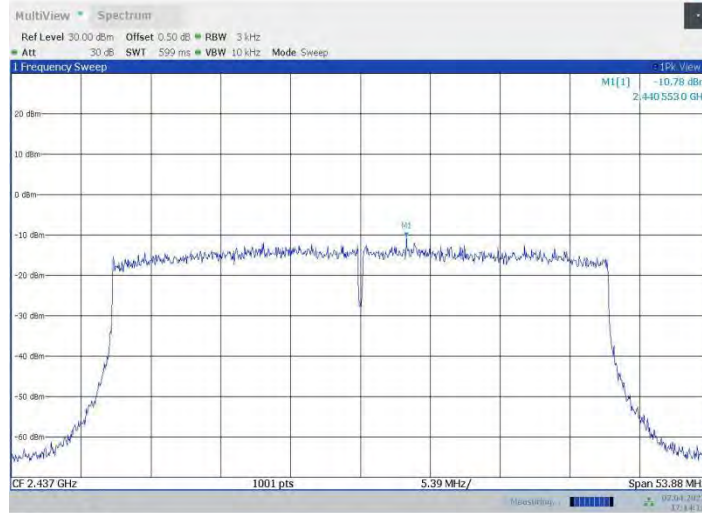
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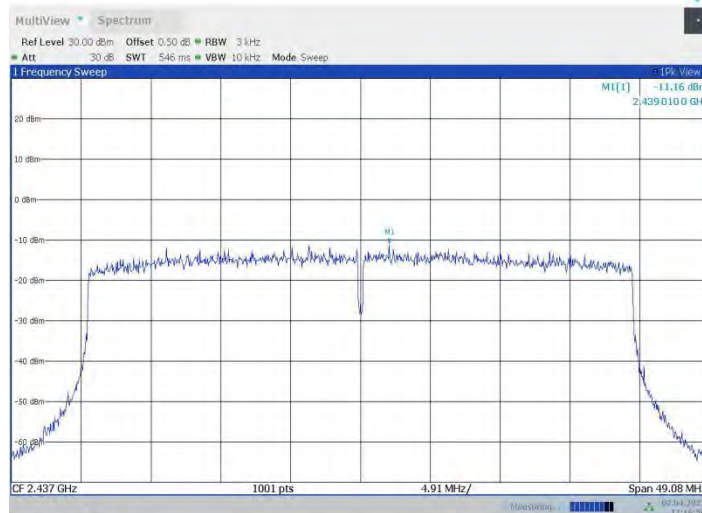
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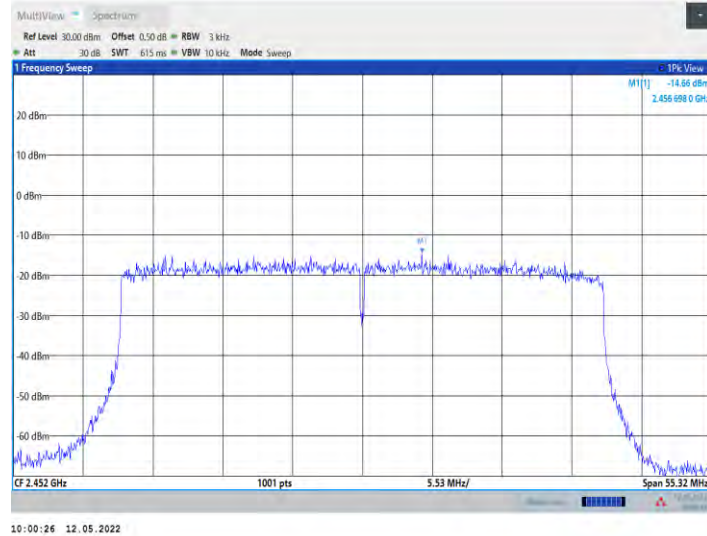
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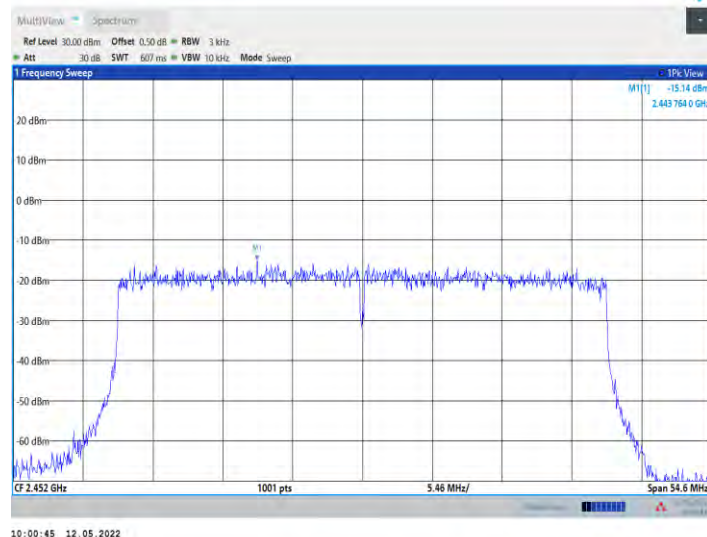
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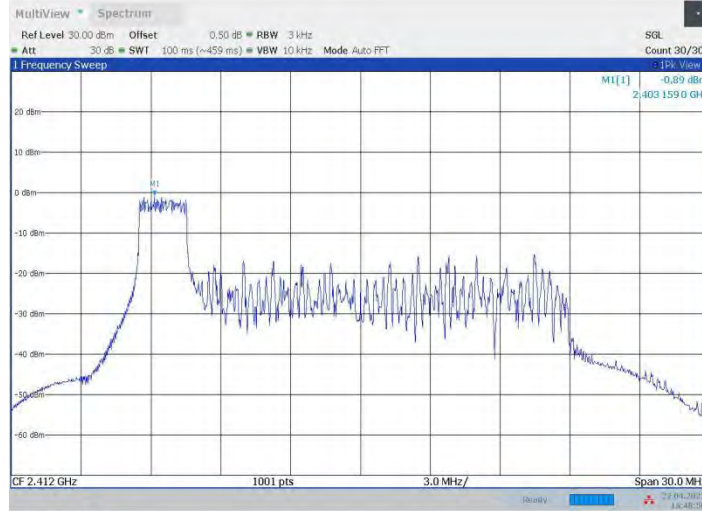


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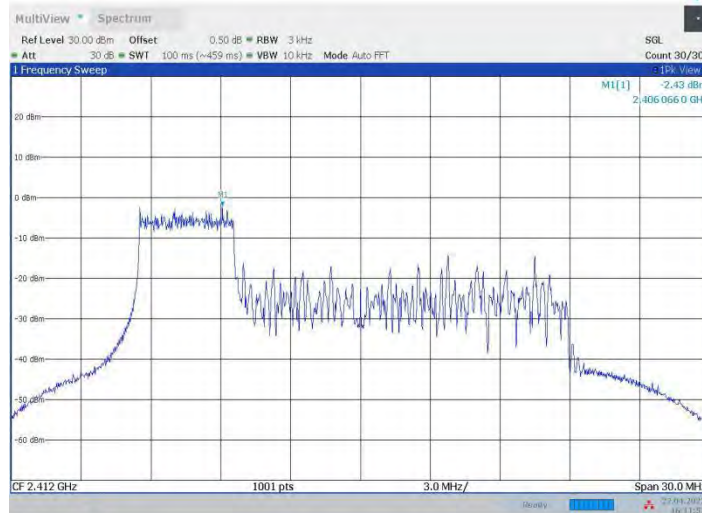
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### 11AX20MIMO\_Ant1\_2412\_26Tone\_RU0



### 11AX20MIMO\_Ant1\_2412\_52Tone\_RU37



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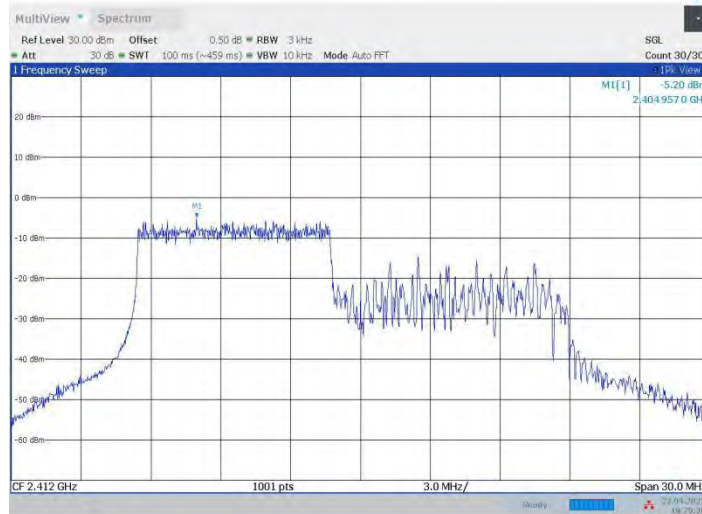
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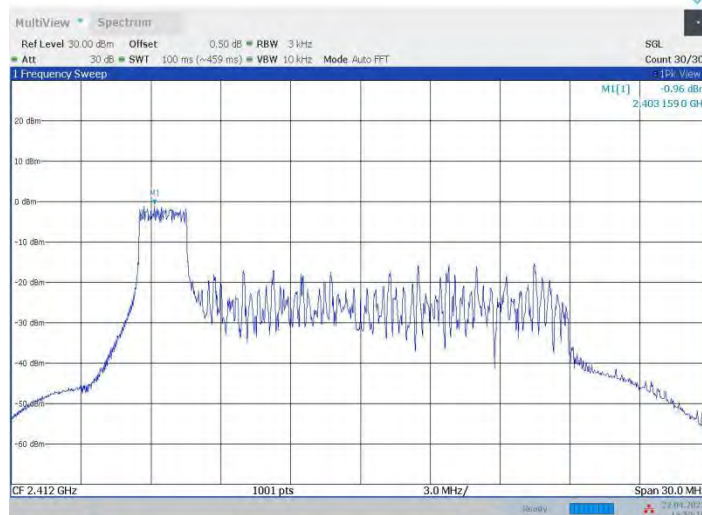
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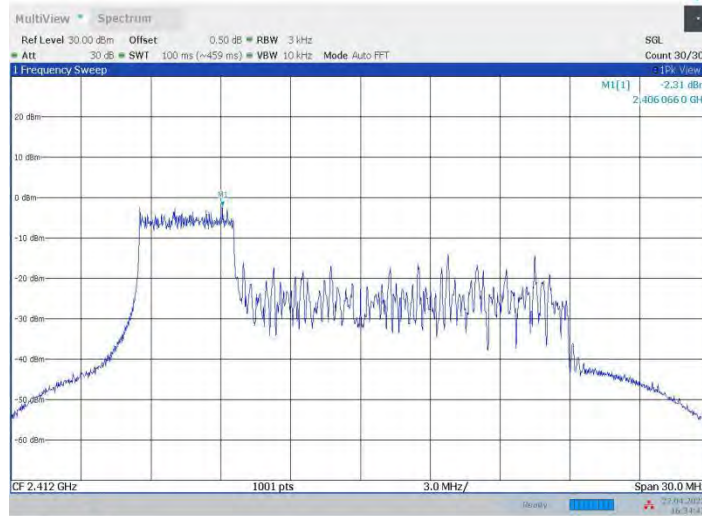
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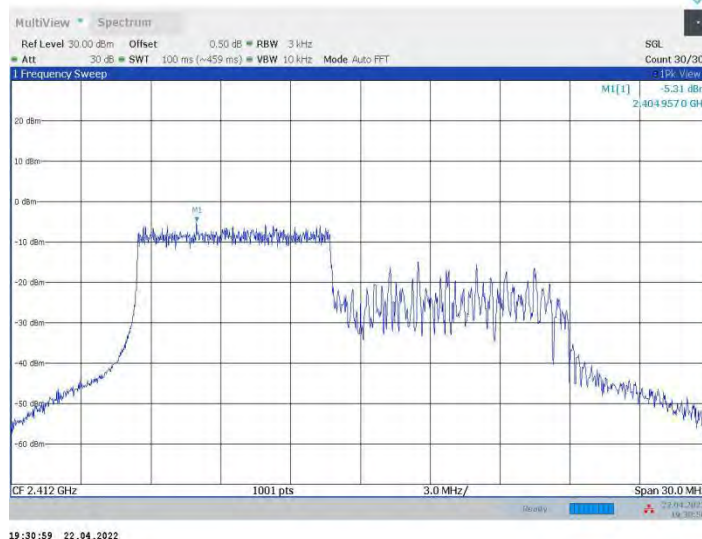
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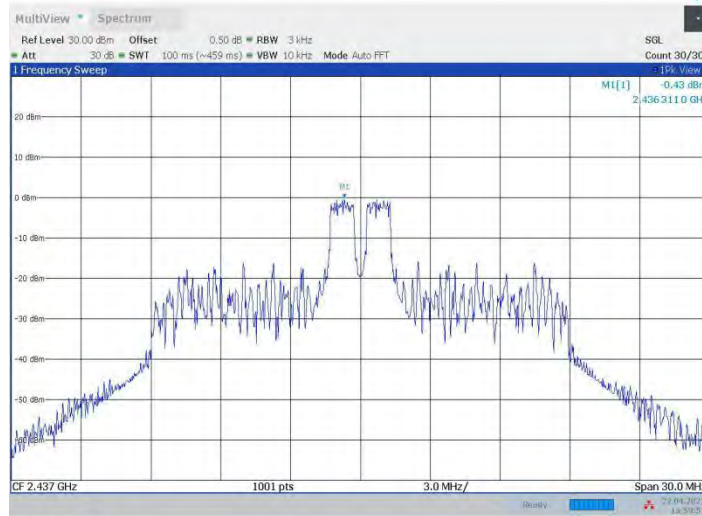


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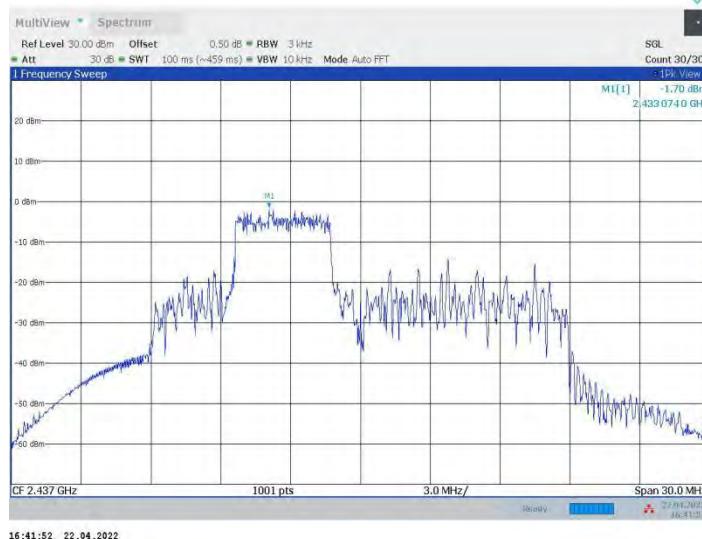
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### 11AX20MIMO\_Ant1\_2437\_26Tone\_RU4



### 11AX20MIMO\_Ant1\_2437\_52Tone\_RU38



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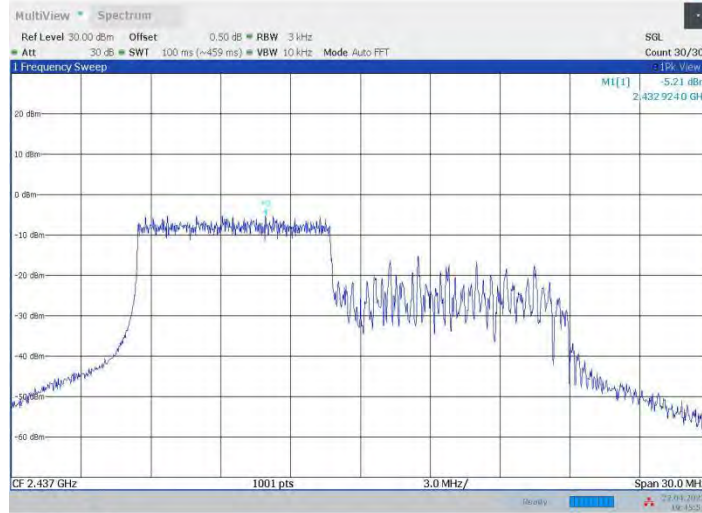
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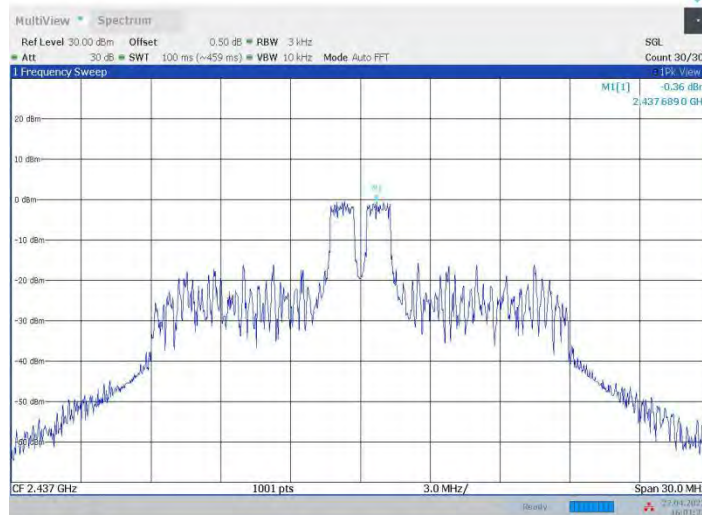
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### 11AX20MIMO\_Ant1\_2437\_106Tone\_RU53



19:45:51 22.04.2022

### 11AX20MIMO\_Ant2\_2437\_26Tone\_RU4



16:01:32 22.04.2022



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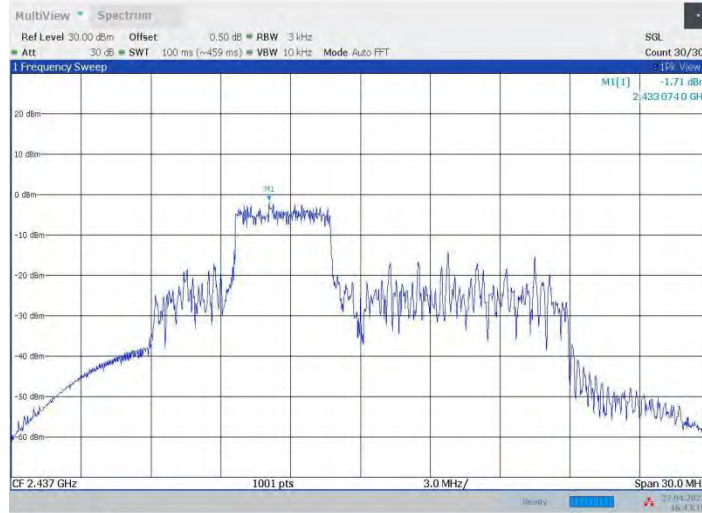
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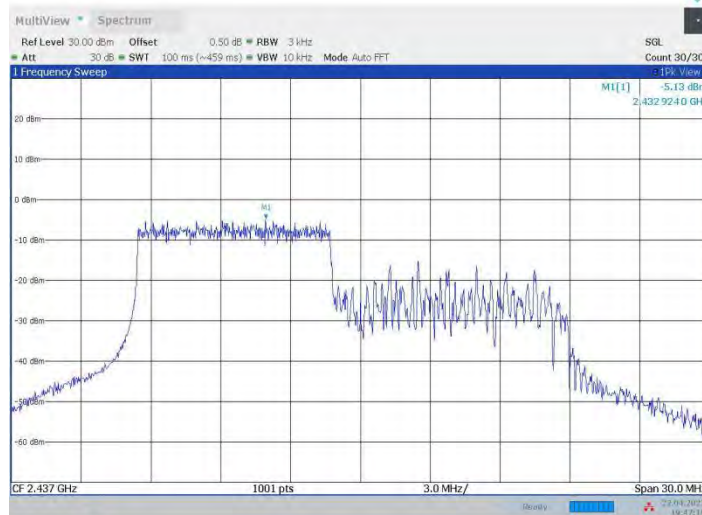
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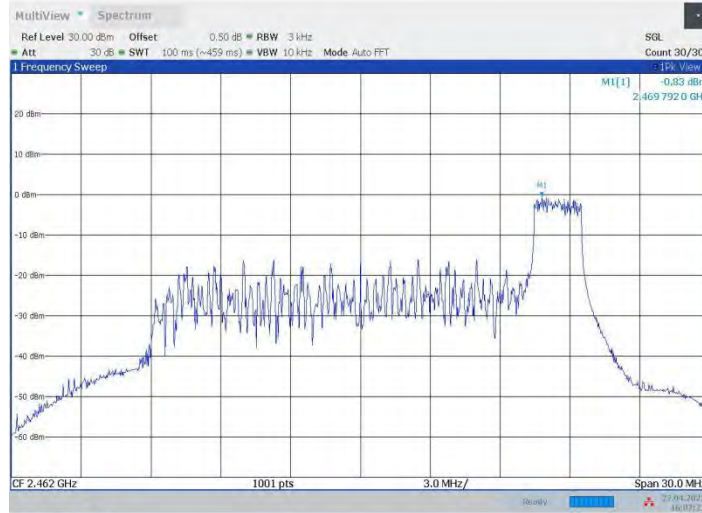


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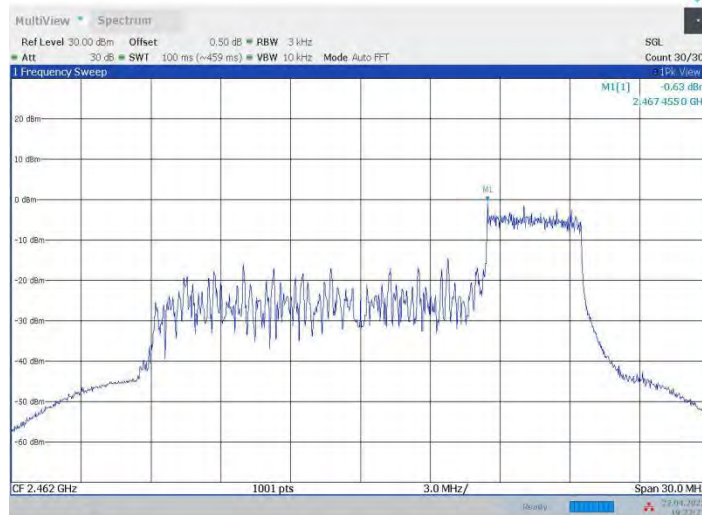
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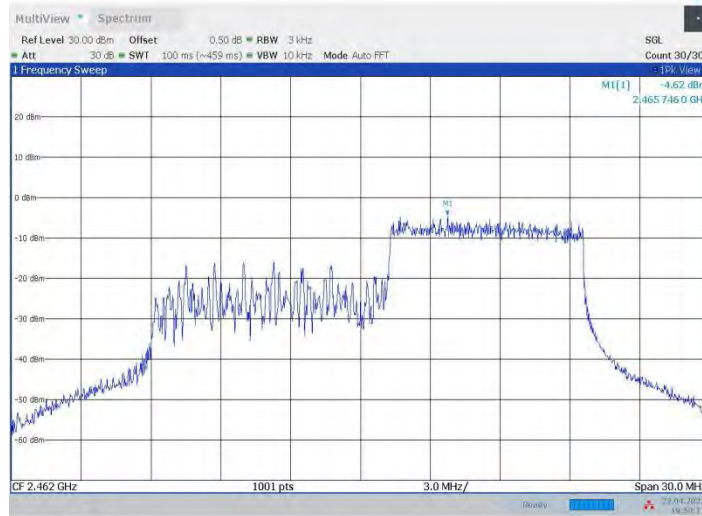
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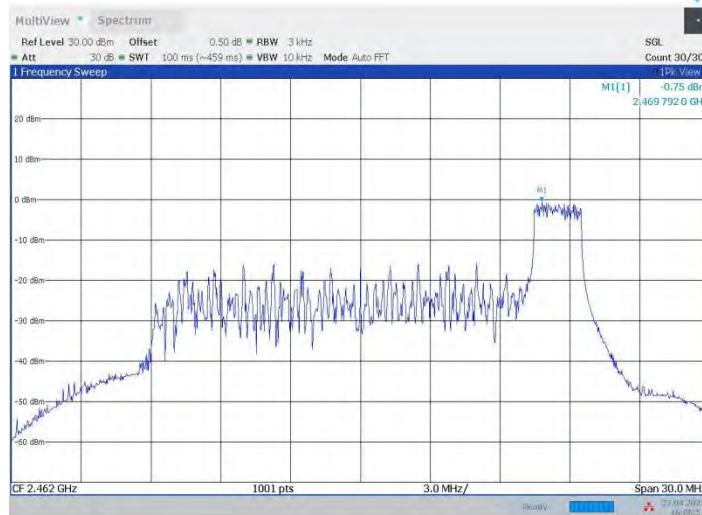
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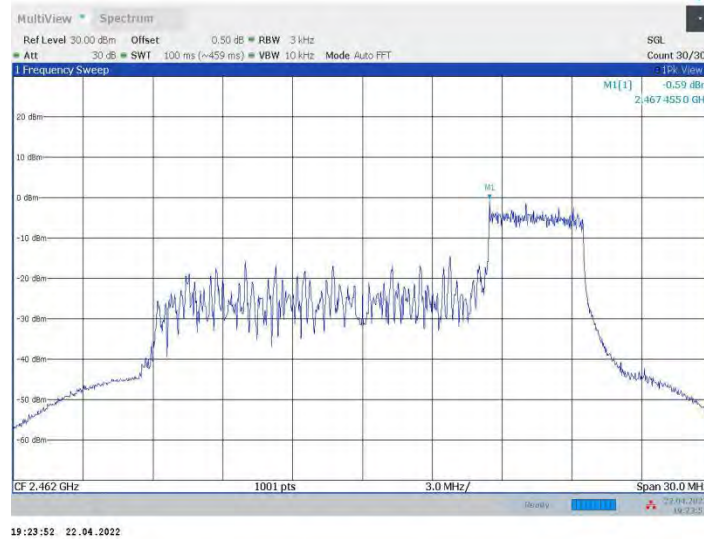
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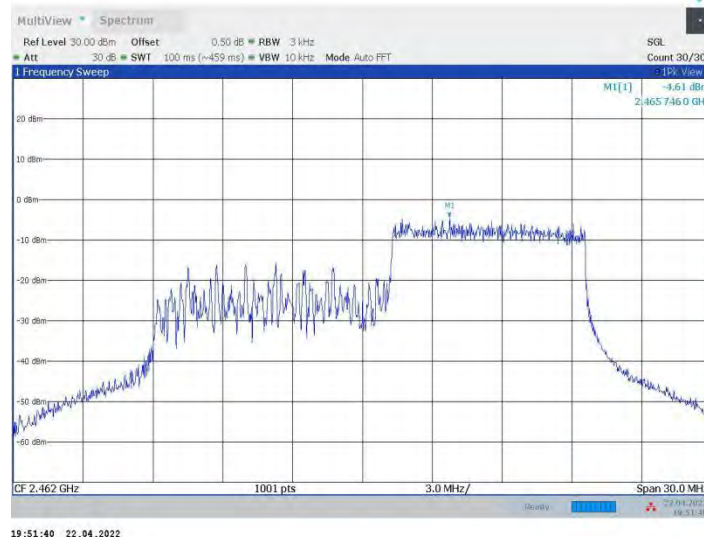
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