

Report No.: SUAR/2021/C000305

Rev.: 01

Page: 1 of 254

# TEST REPORT

**Application No.:** AR/2021/C0003

**Applicant:** Xiaomi Communications Co., Ltd.

**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

**Manufacturer:** Xiaomi Communications Co., Ltd.

**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

**EUT Description:** Mobile Phone

**Model No.:** 22021211RG

**Brand Name:** POCO

**FCC ID:** 2AFZZ211RG

**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR Part 15, Subpart C

**Date of Receipt:** 2022/1/14

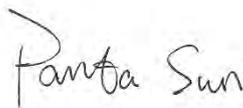
**Date of Test:** 2022/1/28 to 2022/2/21

**Date of Issue:** 2022/2/22

<b>Test Result :</b>	<b>PASS *</b>
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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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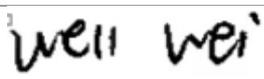
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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/2/22		Original

<b>Prepared By</b>		 <hr/> <b>(Weller Liu) / Engineer</b>
<b>Checked By</b>		 <hr/> <b>(Well Wei) / Reviewer</b>



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## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

#### 3.3 Test Facility

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

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

EUT Description:	Mobile Phone					
Model No.:	22021211RG					
Brand Name:	POCO					
Hardware Version:	P2					
Software Version:	MIUI 13					
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n/ax (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11 n/ax (40 MHz channel bandwidth)					
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$ , where: $-f_c = \text{"Operating Frequency"}$ in MHz, $-N = \text{"Channel Number"}$ with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.					
Type of Modulation:	IEEE for 802.11b: DSSS IEEE for 802.11g : OFDM IEEE for 802.11n(HT20)/ax(HE20) : OFDM/OFDMA IEEE for 802.11n(HT40)/ax(HE40) : OFDM/OFDMA					
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module					
Antenna Type:	PIFA Antenna					
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n/ax), <input checked="" type="checkbox"/> MIMO (for 802.11b/g/n/ax): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx					
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client -1.63dBi(ANT16); -0.24dBi(ANT18);					
RF Cable*:	<input checked="" type="checkbox"/> Provided by client <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">1dB(Below 1GHz)</td> <td style="width:33%;">1.2dB (1~2GHz)</td> <td style="width:33%;">2.0 dB(Above 2GHz)</td> </tr> </table>			1dB(Below 1GHz)	1.2dB (1~2GHz)	2.0 dB(Above 2GHz)
1dB(Below 1GHz)	1.2dB (1~2GHz)	2.0 dB(Above 2GHz)				
Remark:	<p>*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>					



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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			



### 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	3.87
LTVN	0	3.87
HTNV	40	3.87

Remark:  
 NV: Normal Voltage  
 NT: Normal Temperature  
 LT: Low Extreme Test Temperature  
 HT: High Extreme Test Temperature

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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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(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.63dBi(ANT16); -0.24dBi(ANT18);</p>	



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### 4.2 AC Power Line Conducted Emissions

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



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>



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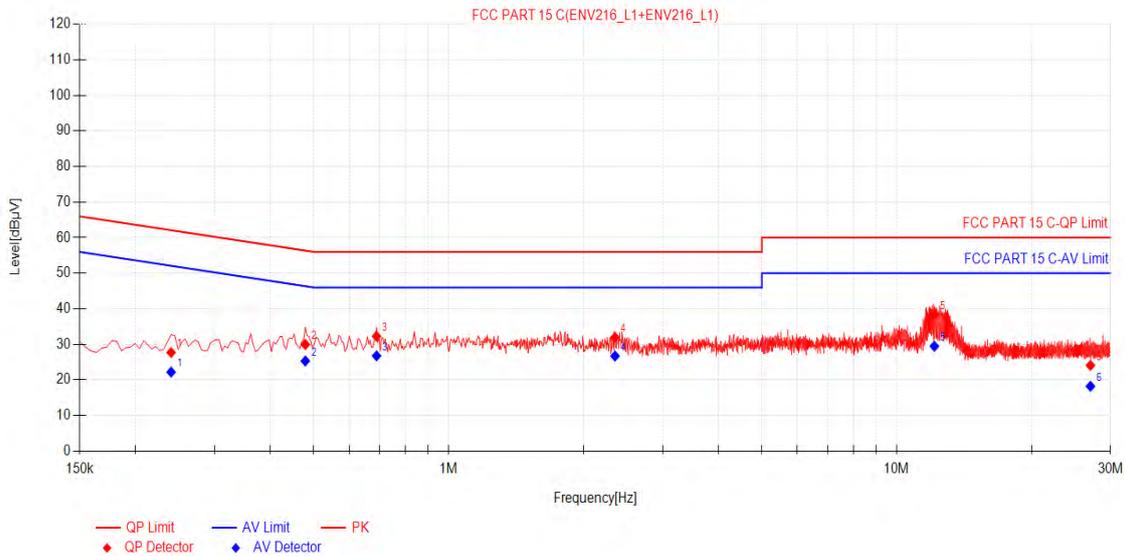
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Measurement Data

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.

Live Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2400	10.80	27.70	62.10	34.40	22.21	52.10	29.89	PASS
2	0.4785	10.59	29.96	56.37	26.41	25.33	46.37	21.04	PASS
3	0.6900	10.57	32.27	56.00	23.73	26.76	46.00	19.24	PASS
4	2.3505	10.66	31.97	56.00	24.03	26.71	46.00	19.29	PASS
5	12.1380	10.59	38.39	60.00	21.61	29.47	50.00	20.53	PASS
6	27.0735	10.30	24.08	60.00	35.92	18.22	50.00	31.78	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

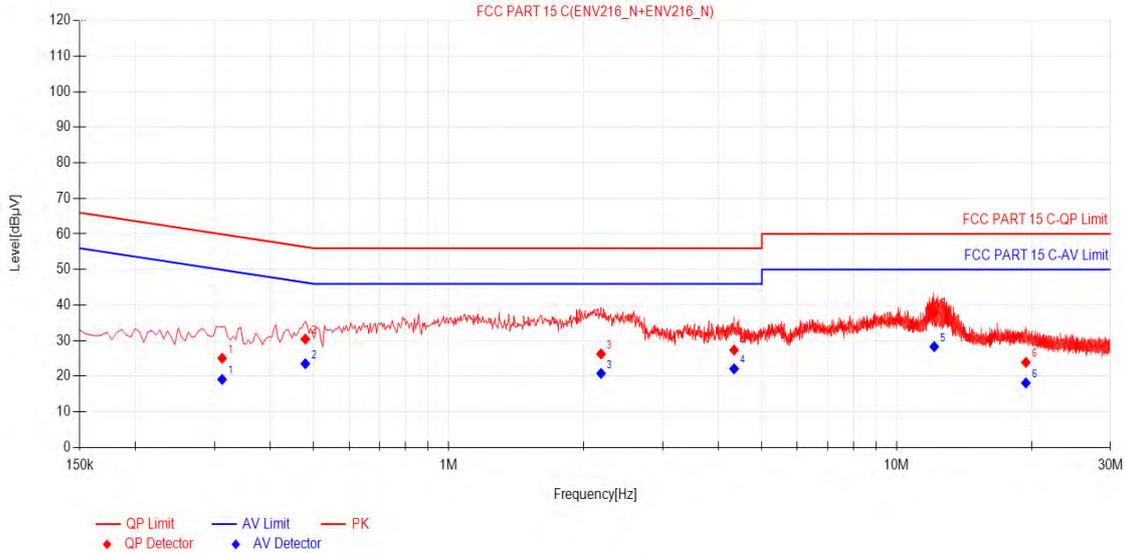


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Neutral Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3120	10.77	25.06	59.92	34.86	19.11	49.92	30.81	PASS
2	0.4785	10.81	30.45	56.37	25.92	23.54	46.37	22.83	PASS
3	2.1885	10.78	26.27	56.00	29.73	20.80	46.00	25.20	PASS
4	4.3350	10.71	27.37	56.00	28.63	22.12	46.00	23.88	PASS
5	12.1290	10.65	38.01	60.00	21.99	28.33	50.00	21.67	PASS
6	19.4280	10.42	23.90	60.00	36.10	18.13	50.00	31.87	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + 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 Section 11.9.1.3
Test Setup:	
Test Instruments:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40).
Limit:	30dBm
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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 11.8.1 Option 1
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40).
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40).
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>	



### 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:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40).
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>	



### 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)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	3MHz	Peak	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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Test Setup:

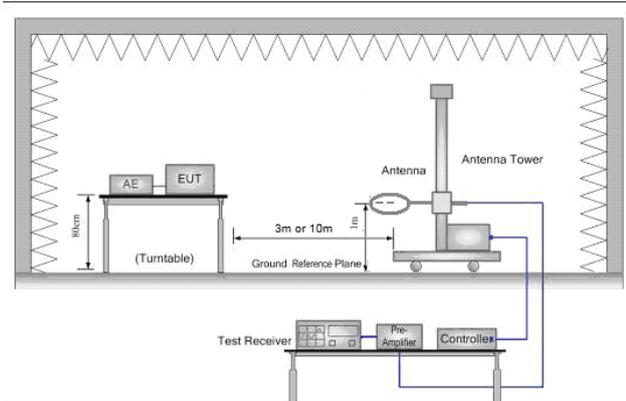


Figure 1. Below 30MHz

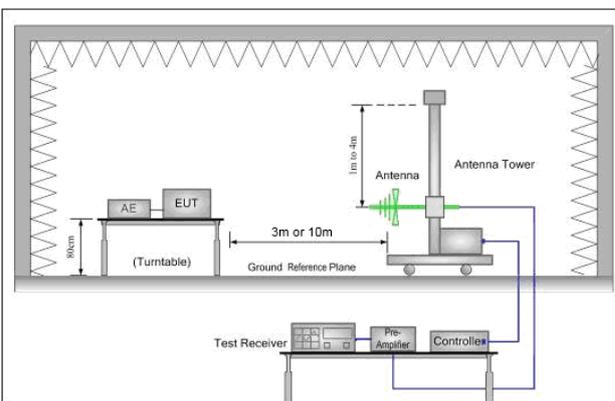


Figure 2. 30MHz to 1GHz

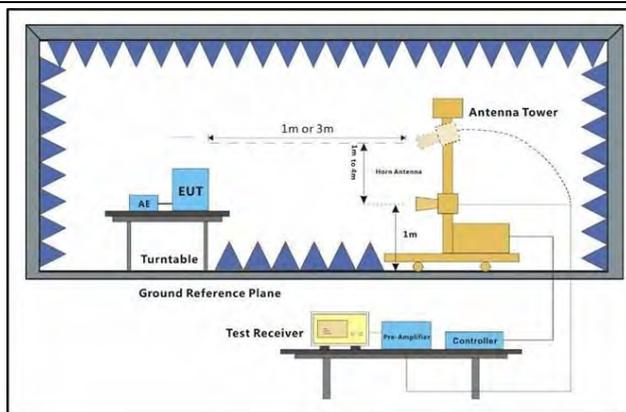


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- 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 Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT



	<p>would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Y axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p> <p>k. 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>l. The disturbance above 18GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p>
<p>Test Configuration:</p>	<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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>
<p>The detailed test data see: <b>Appendix</b></p>	





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### 4.10 Restricted bands around fundamental frequency

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

Test Setup:

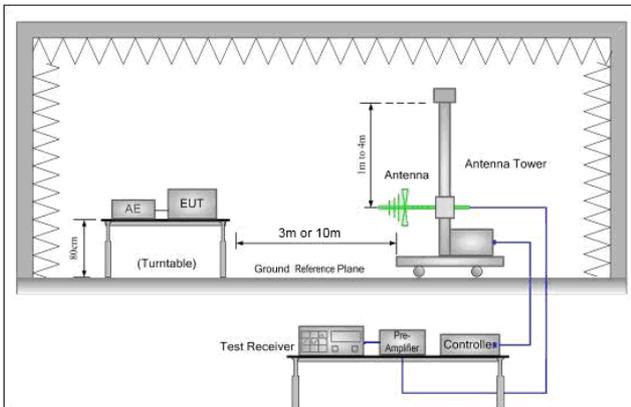


Figure 1. 30MHz to 1GHz

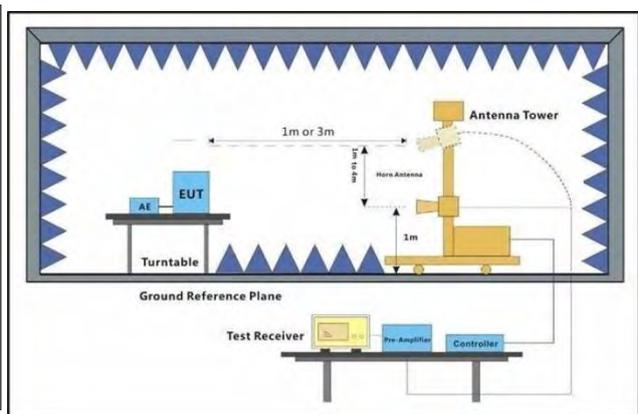


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<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>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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Final Test Mode:	Pretest the EUT at Charge + Transmitting mode. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20) /ax(HE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(HE40). Only the worst case is recorded in the report.
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	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25x 10 <sup>-8</sup>
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 <sup>-8</sup>
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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## 6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
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	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
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
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.51	SUWI-02-09-09	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18

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	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18



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RSE Test Equipment 996-01					
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	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - EUT Constructional Details

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	Ant16	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant18	2412	7.32	2408.24	2415.56	0.5	PASS
	Ant16	2437	8.00	2433.00	2441.00	0.5	PASS
	Ant18	2437	8.00	2433.00	2441.00	0.5	PASS
	Ant16	2462	7.96	2458.04	2466.00	0.5	PASS
	Ant18	2462	8.00	2457.96	2465.96	0.5	PASS
11G-CDD	Ant16	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant18	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant16	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant18	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant16	2462	16.32	2453.84	2470.16	0.5	PASS
	Ant18	2462	16.32	2453.84	2470.16	0.5	PASS
11N20MIMO	Ant16	2412	17.52	2403.24	2420.76	0.5	PASS
	Ant18	2412	17.56	2403.20	2420.76	0.5	PASS
	Ant16	2437	17.52	2428.24	2445.76	0.5	PASS
	Ant18	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant16	2462	17.32	2453.20	2470.52	0.5	PASS
	Ant18	2462	17.32	2453.20	2470.52	0.5	PASS
11N40MIMO	Ant16	2422	36.08	2404.08	2440.16	0.5	PASS
	Ant18	2422	36.32	2403.84	2440.16	0.5	PASS
	Ant16	2437	35.84	2419.08	2454.92	0.5	PASS
	Ant18	2437	36.32	2418.84	2455.16	0.5	PASS
	Ant16	2452	35.92	2433.84	2469.76	0.5	PASS
	Ant18	2452	35.36	2434.24	2469.60	0.5	PASS
11AX20MIMO	Ant16	2412	18.88	2402.56	2421.44	0.5	PASS
	Ant18	2412	18.72	2402.72	2421.44	0.5	PASS
	Ant16	2437	18.84	2427.60	2446.44	0.5	PASS
	Ant18	2437	18.88	2427.56	2446.44	0.5	PASS
	Ant16	2462	18.92	2452.52	2471.44	0.5	PASS
	Ant18	2462	18.88	2452.52	2471.40	0.5	PASS
11AX40MIMO	Ant16	2422	37.92	2403.04	2440.96	0.5	PASS
	Ant18	2422	37.68	2403.12	2440.80	0.5	PASS
	Ant16	2437	37.68	2418.04	2455.72	0.5	PASS
	Ant18	2437	37.68	2418.12	2455.80	0.5	PASS
	Ant16	2452	37.36	2433.04	2470.40	0.5	PASS
	Ant18	2452	38.00	2432.96	2470.96	0.5	PASS



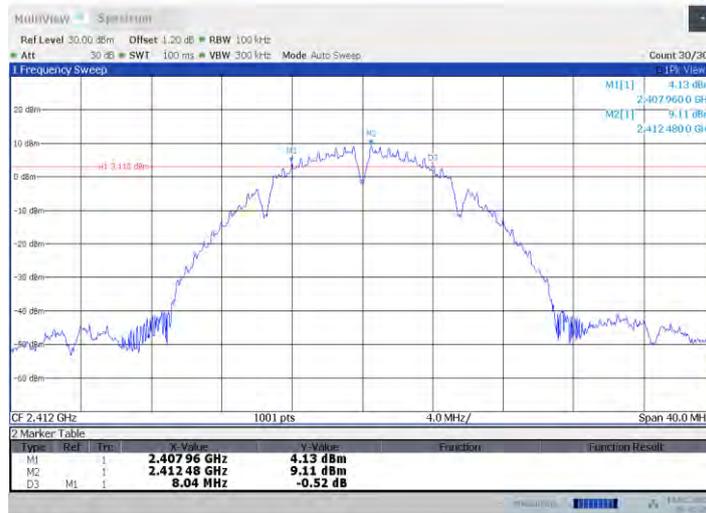
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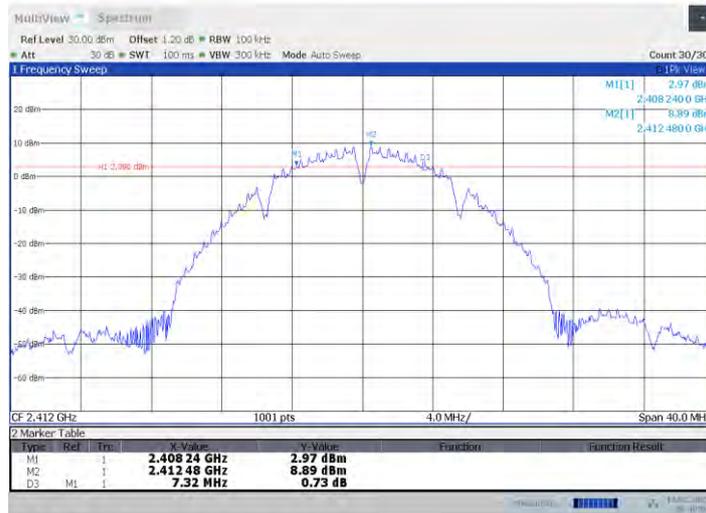
Test Graphs

11B-CDD\_Ant16\_2412



09:45:37 10.02.2022

11B-CDD\_Ant18\_2412



09:48:04 10.02.2022



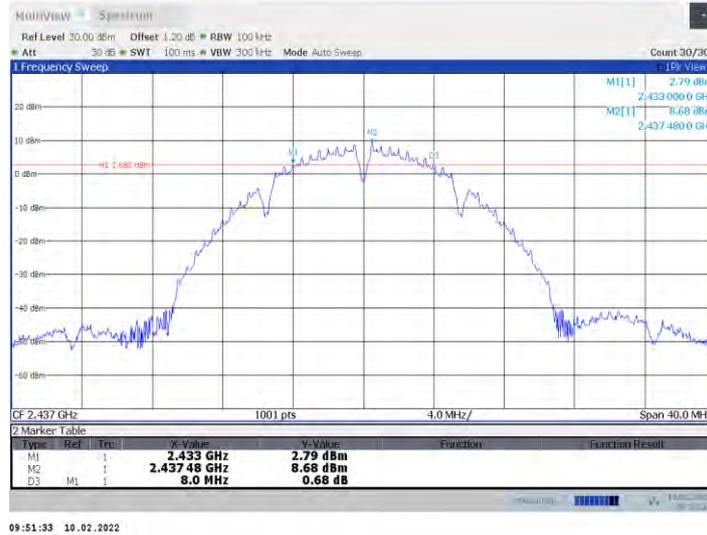
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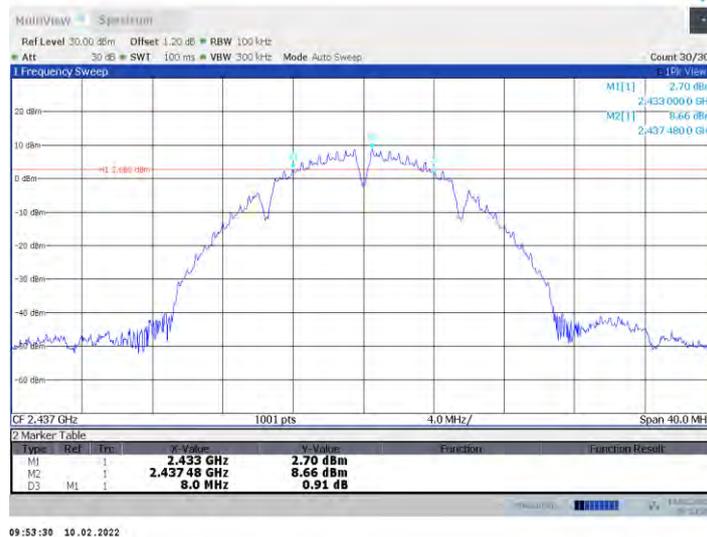
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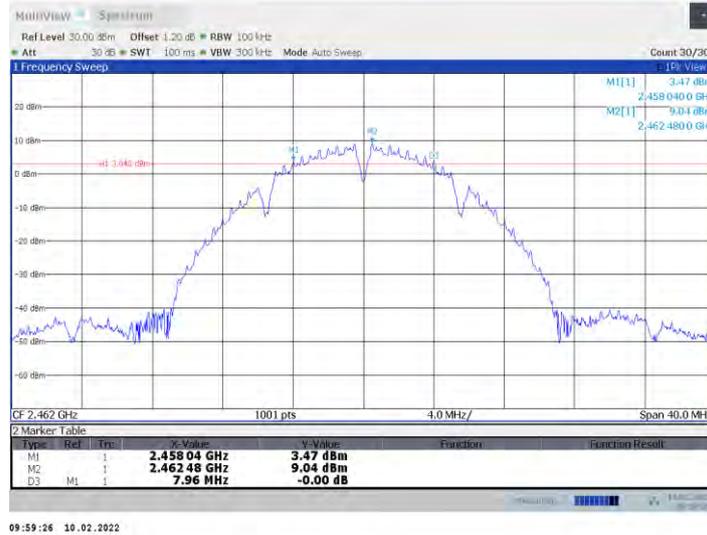


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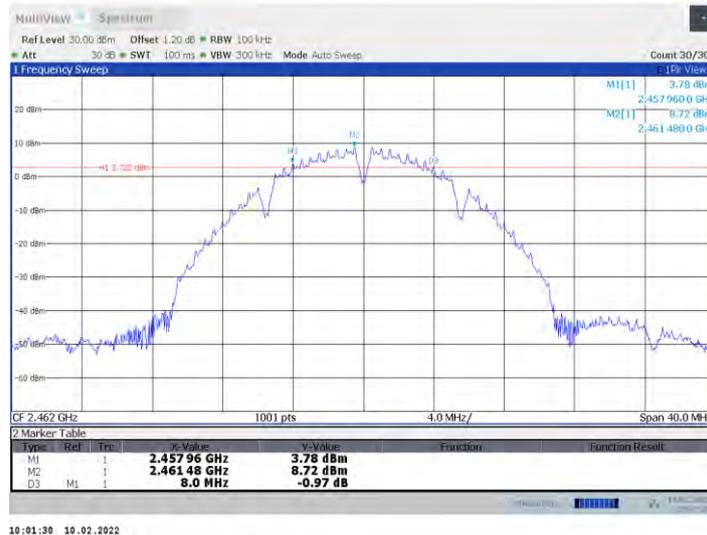
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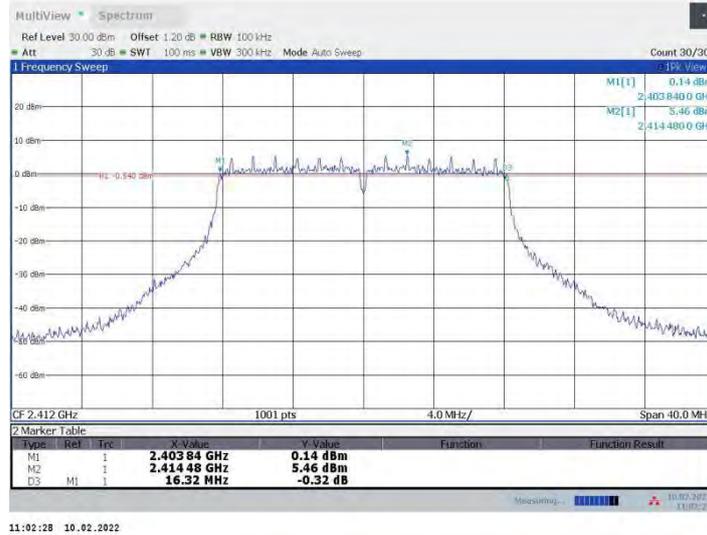


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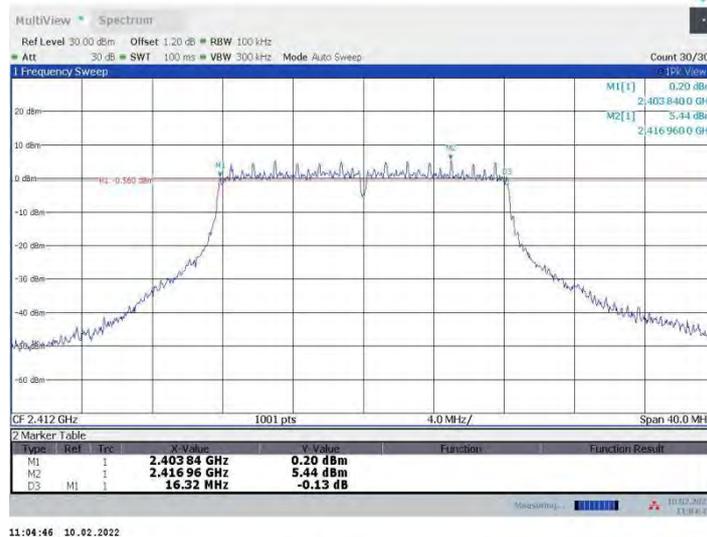
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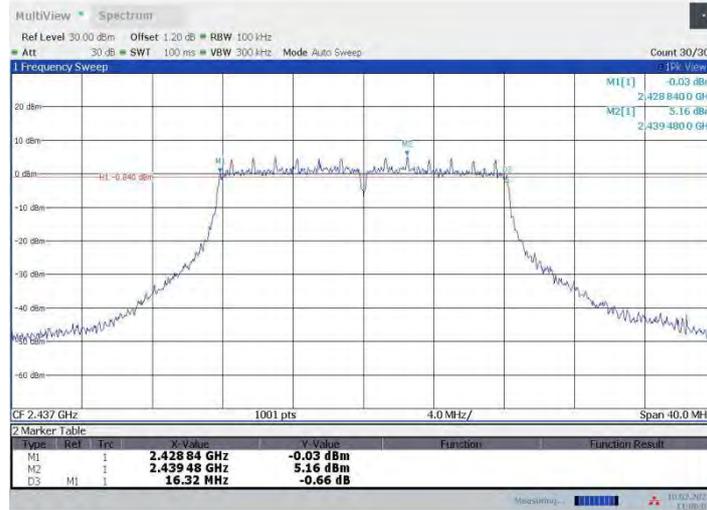


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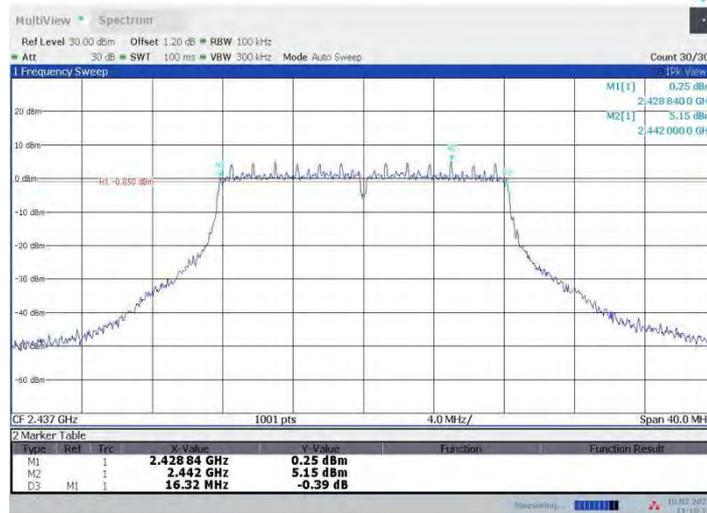
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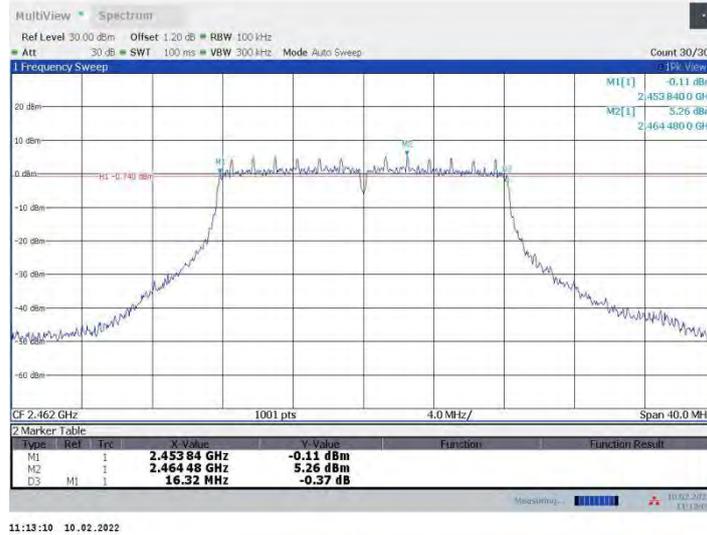
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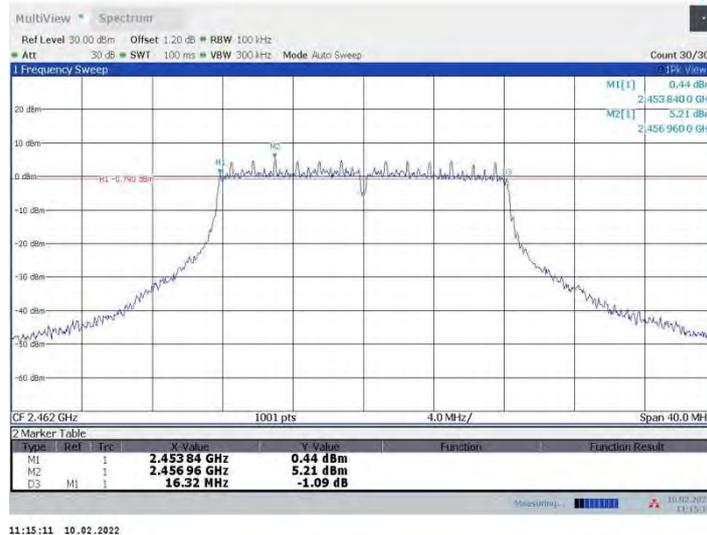
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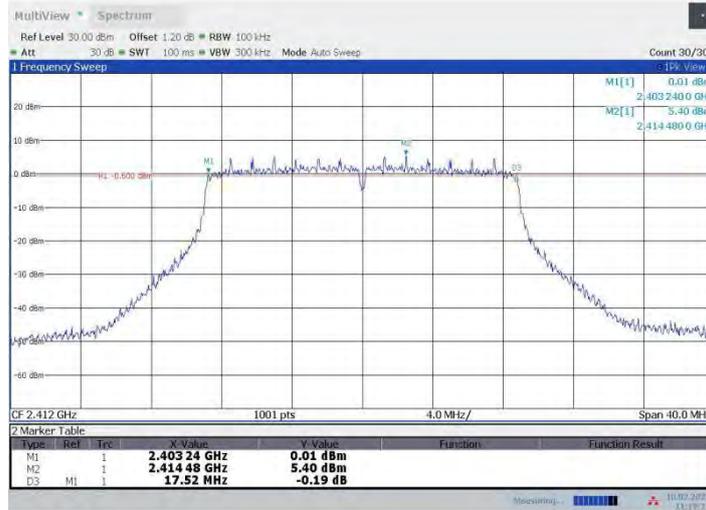
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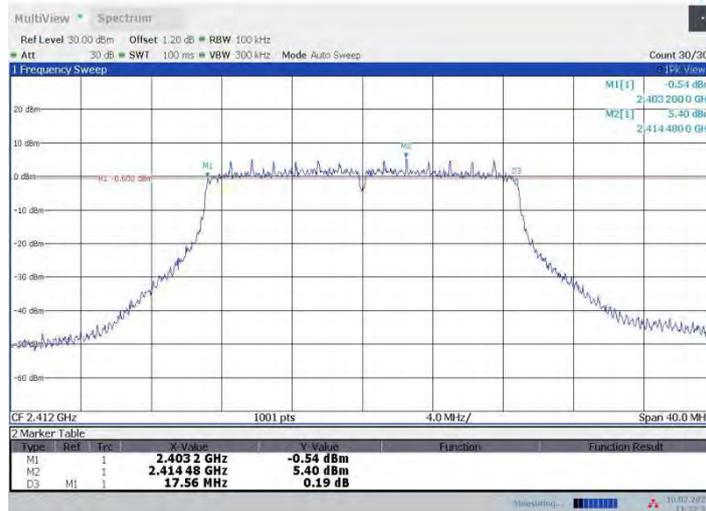
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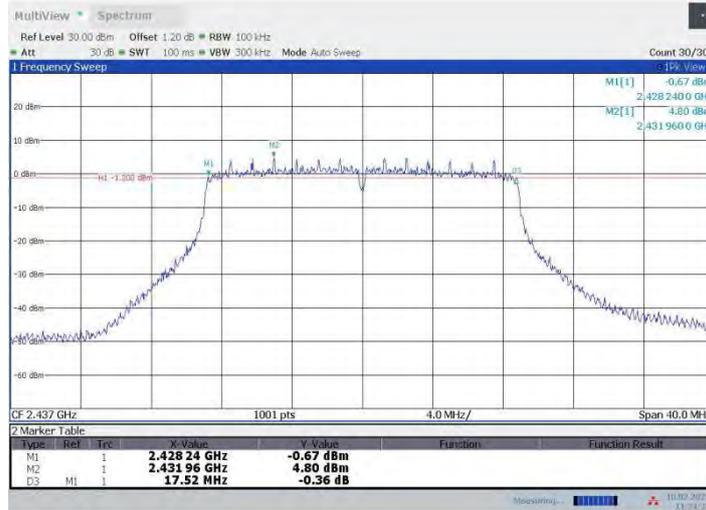


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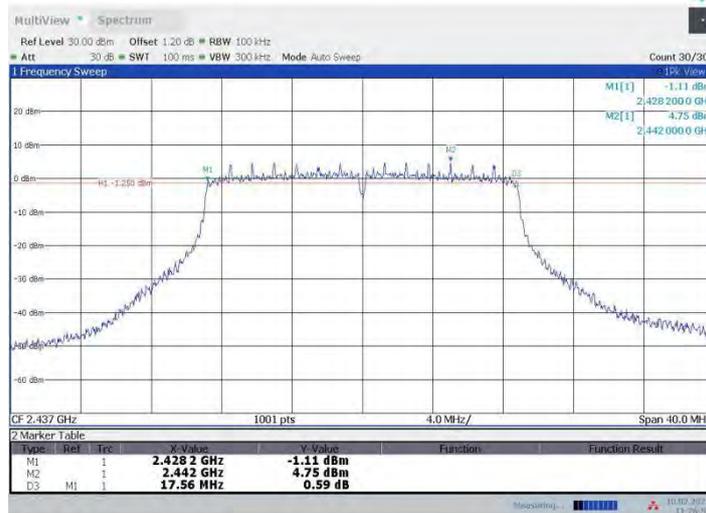
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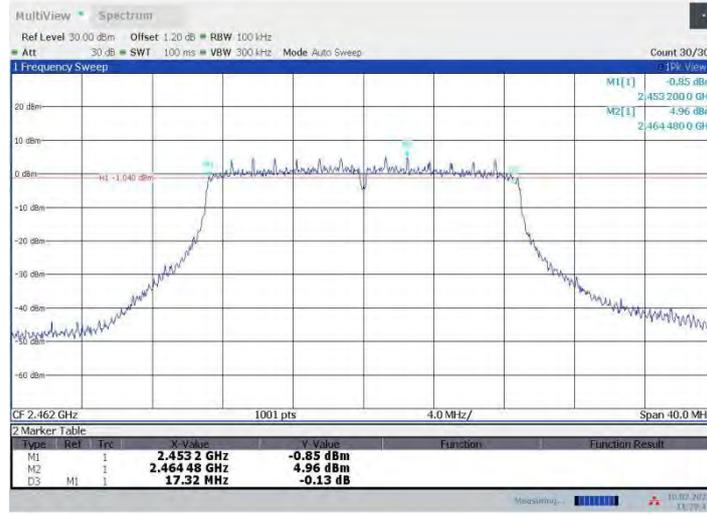
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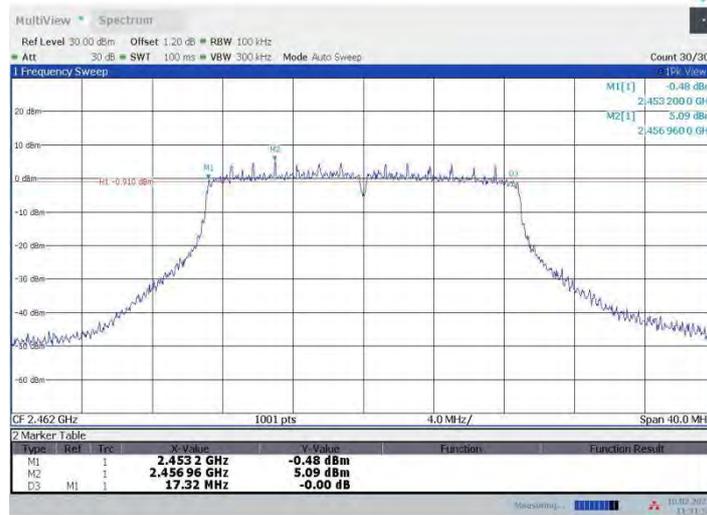
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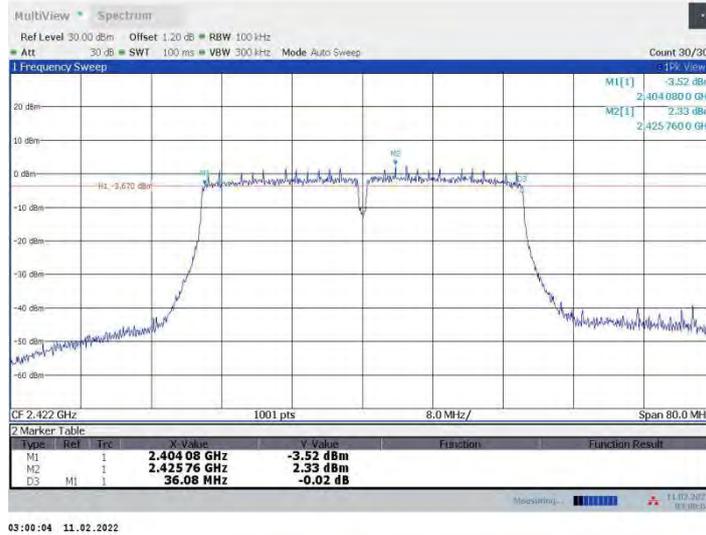
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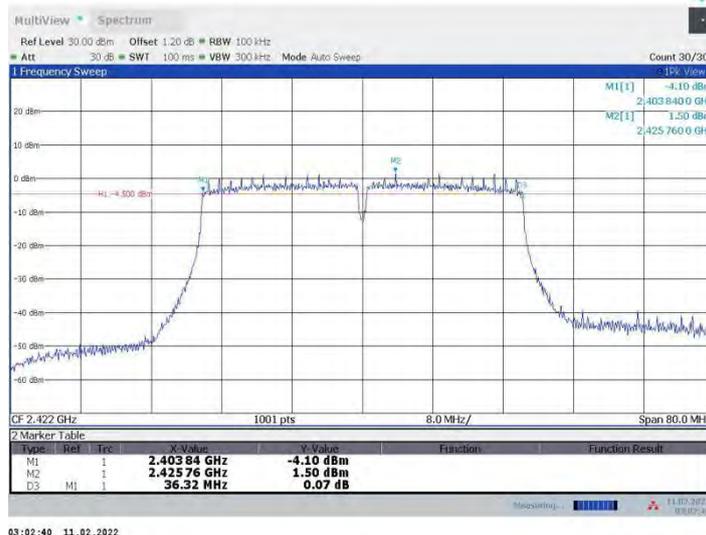
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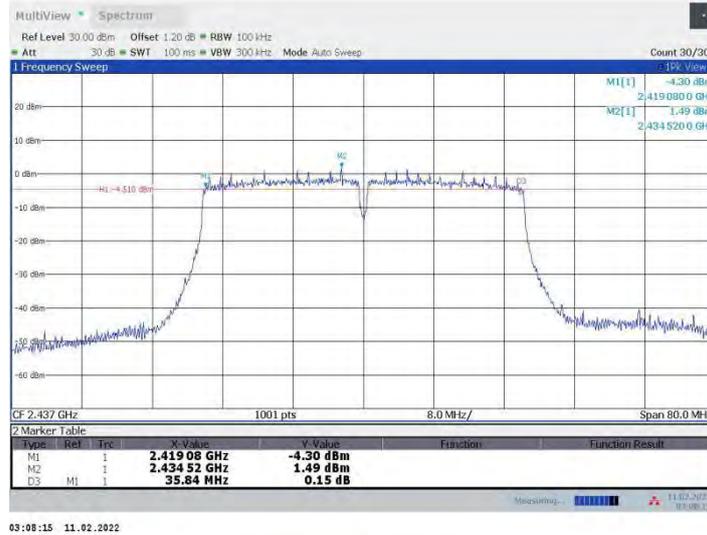
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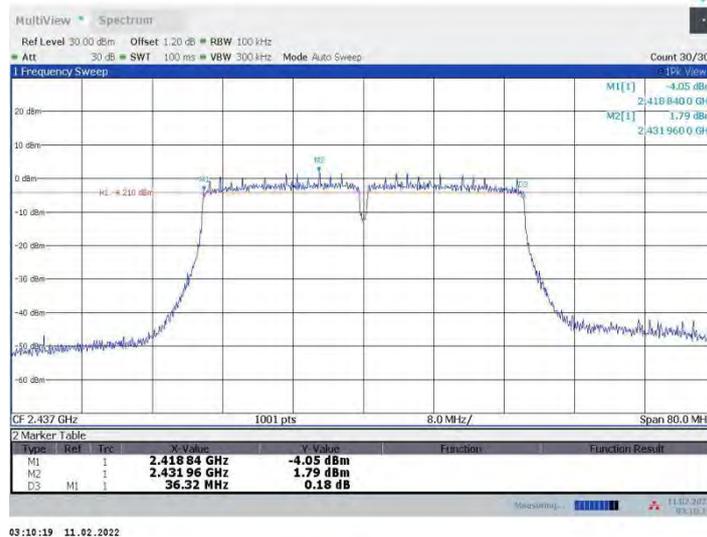
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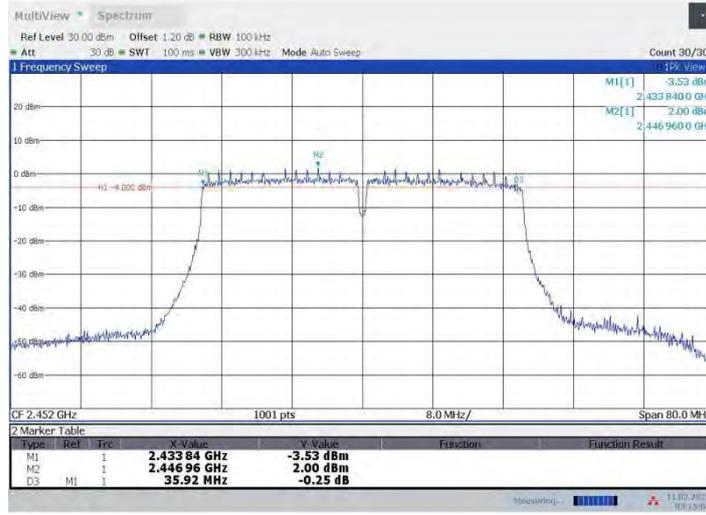
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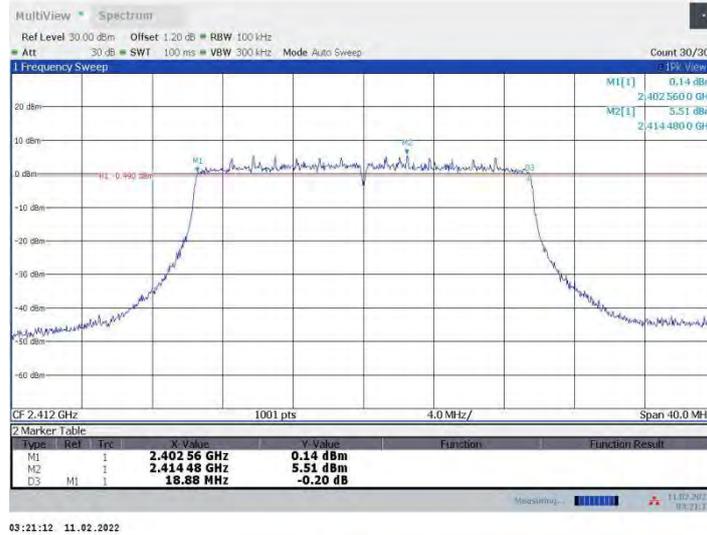
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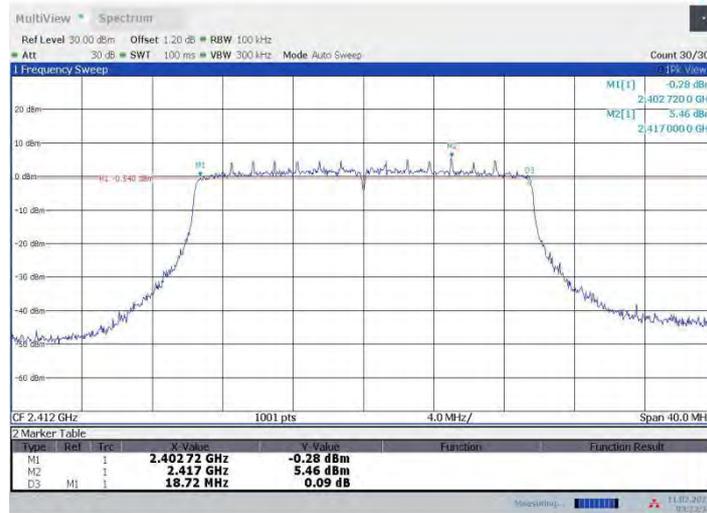
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03:21:12 11.02.2022

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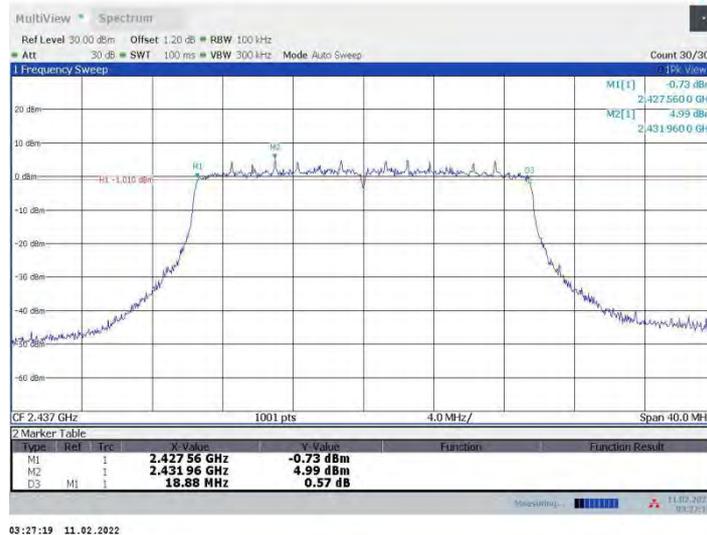
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03:27:19 11.02.2022



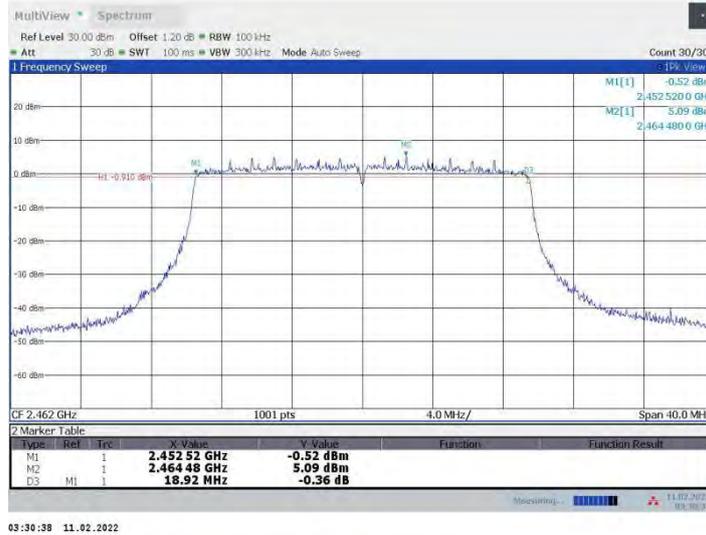
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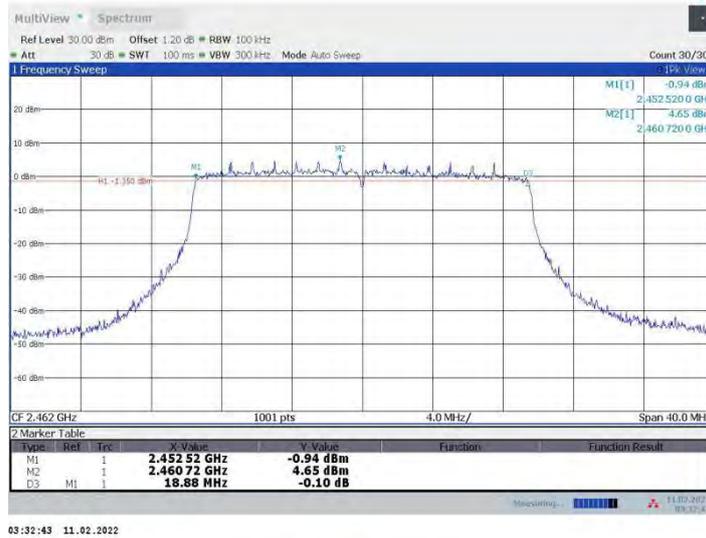
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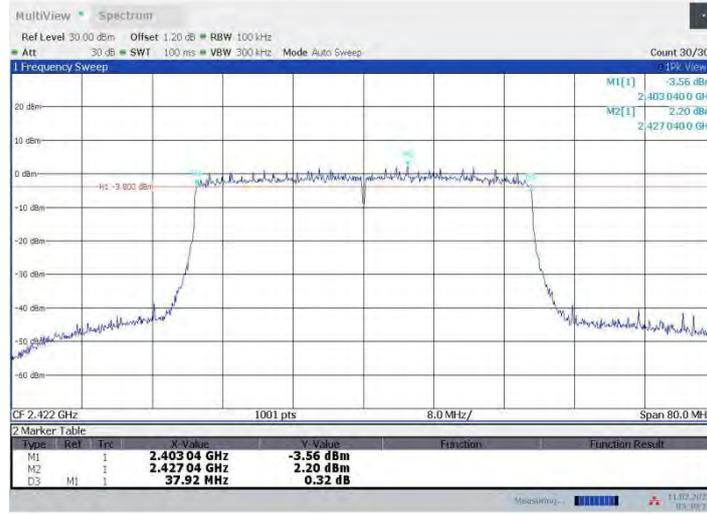


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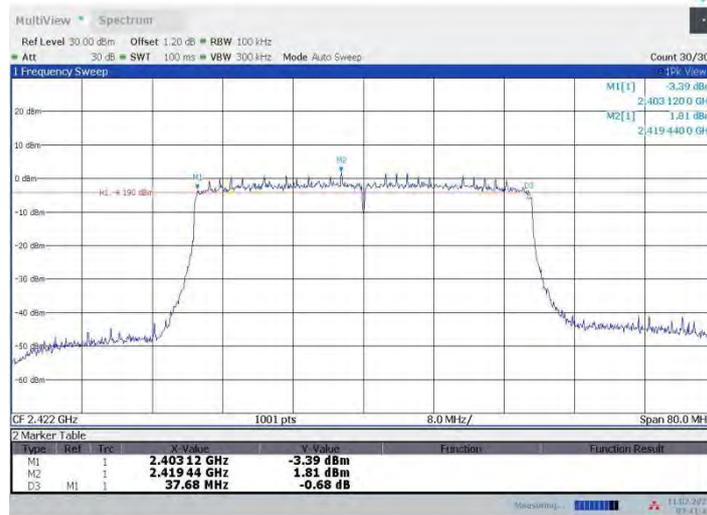
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11AX40MIMO Ant18\_2422



03:41:46 11.02.2022



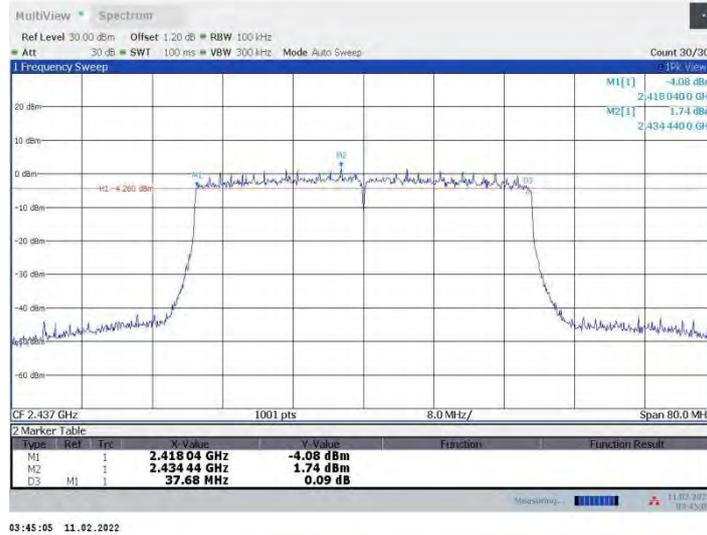
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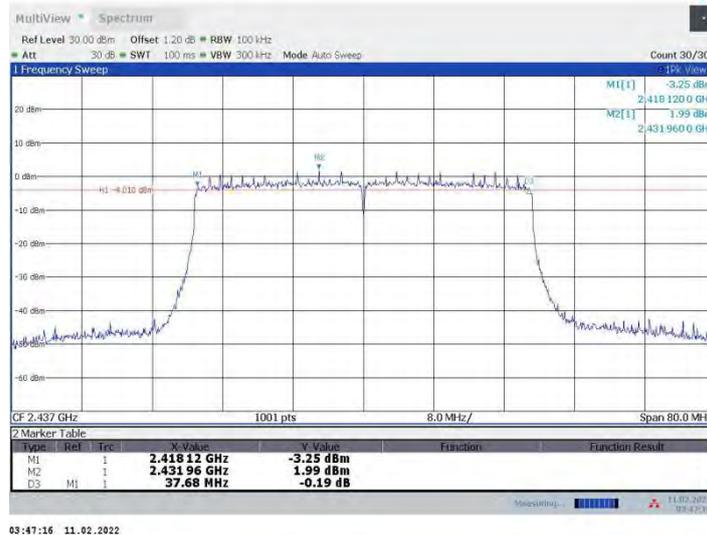
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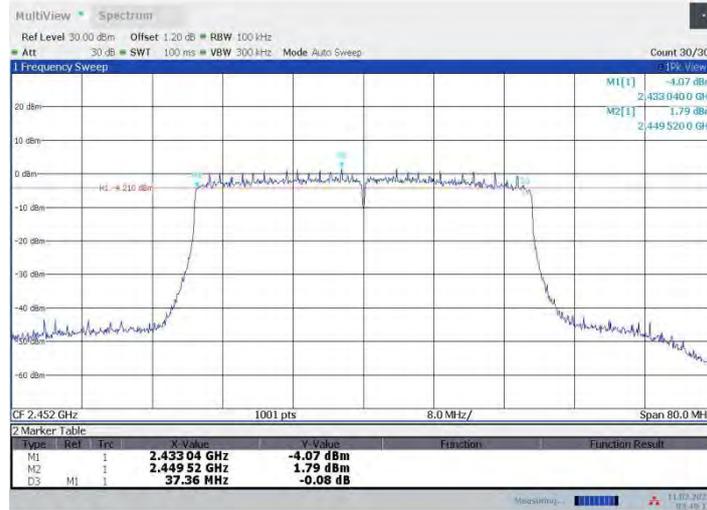
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### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant16	2412	13.002	2405.471	2418.473	---	---
	Ant18	2412	13.049	2405.460	2418.509	---	---
	Ant16	2437	12.984	2430.472	2443.456	---	---
	Ant18	2437	13.076	2430.432	2443.509	---	---
	Ant16	2462	12.95	2455.467	2468.417	---	---
	Ant18	2462	13.076	2455.359	2468.435	---	---
11G-CDD	Ant16	2412	16.535	2403.706	2420.240	---	---
	Ant18	2412	16.513	2403.728	2420.241	---	---
	Ant16	2437	16.553	2428.683	2445.236	---	---
	Ant18	2437	16.574	2428.703	2445.276	---	---
	Ant16	2462	16.547	2453.683	2470.230	---	---
	Ant18	2462	16.561	2453.669	2470.230	---	---
11N20MIMO	Ant16	2412	17.694	2403.108	2420.802	---	---
	Ant18	2412	17.704	2403.104	2420.807	---	---
	Ant16	2437	17.699	2428.108	2445.808	---	---
	Ant18	2437	17.715	2428.101	2445.815	---	---
	Ant16	2462	17.677	2453.101	2470.778	---	---
	Ant18	2462	17.714	2453.087	2470.801	---	---
11N40MIMO	Ant16	2422	36.268	2403.833	2440.100	---	---
	Ant18	2422	36.188	2403.849	2440.037	---	---
	Ant16	2437	36.195	2418.844	2455.039	---	---
	Ant18	2437	36.256	2418.834	2455.090	---	---
	Ant16	2452	36.255	2433.783	2470.038	---	---
	Ant18	2452	36.221	2433.808	2470.029	---	---
11AX20MIMO	Ant16	2412	19.017	2402.467	2421.484	---	---
	Ant18	2412	19.023	2402.455	2421.478	---	---
	Ant16	2437	19.018	2427.461	2446.479	---	---
	Ant18	2437	19.018	2427.431	2446.449	---	---
	Ant16	2462	19.014	2452.454	2471.469	---	---
	Ant18	2462	19.001	2452.454	2471.456	---	---
11AX40MIMO	Ant16	2422	38.019	2402.957	2440.976	---	---
	Ant18	2422	37.82	2403.081	2440.901	---	---
	Ant16	2437	37.859	2418.004	2455.864	---	---
	Ant18	2437	37.983	2417.990	2455.973	---	---
	Ant16	2452	37.866	2432.972	2470.838	---	---
	Ant18	2452	37.829	2432.963	2470.792	---	---

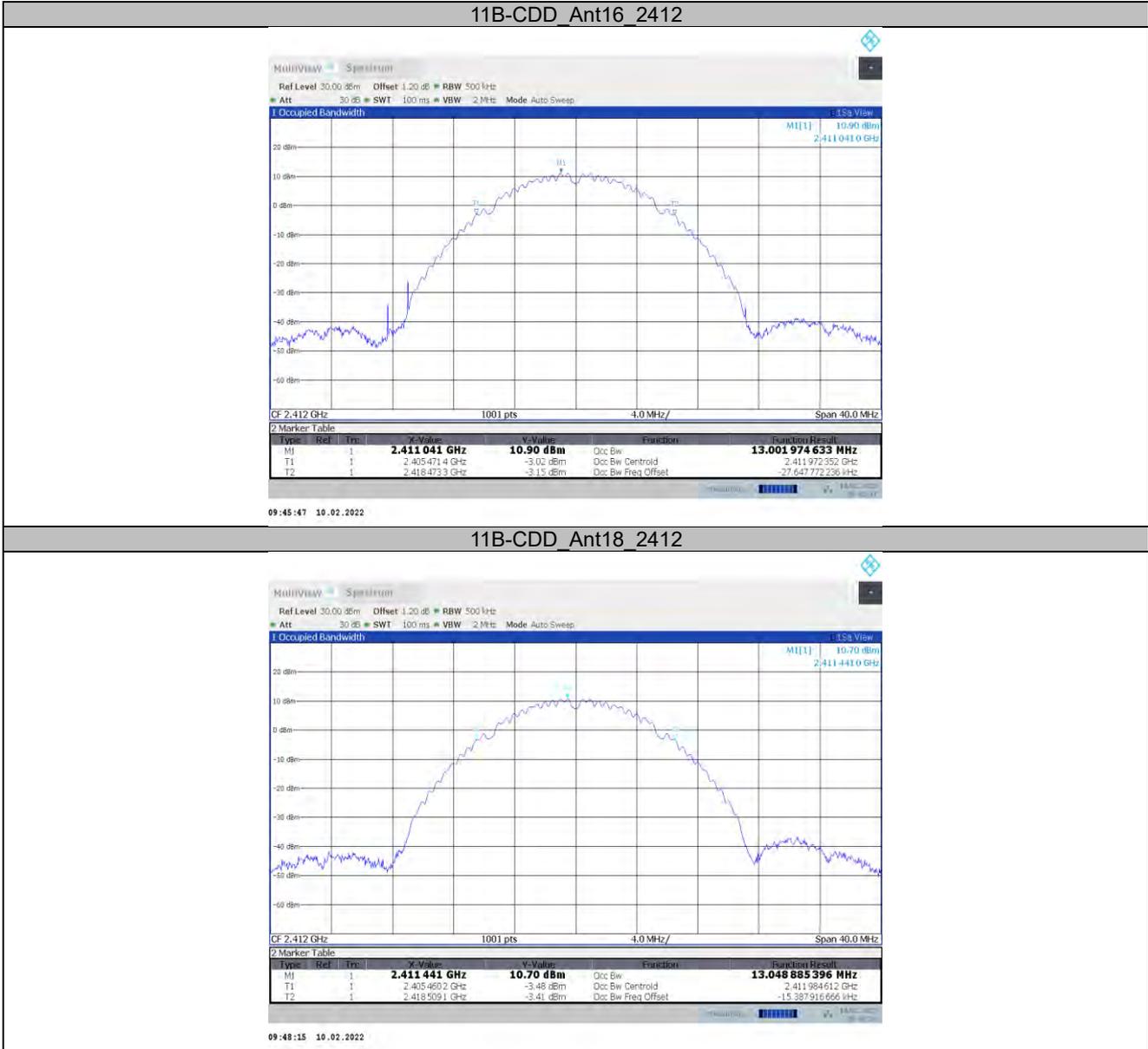


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Test Graphs

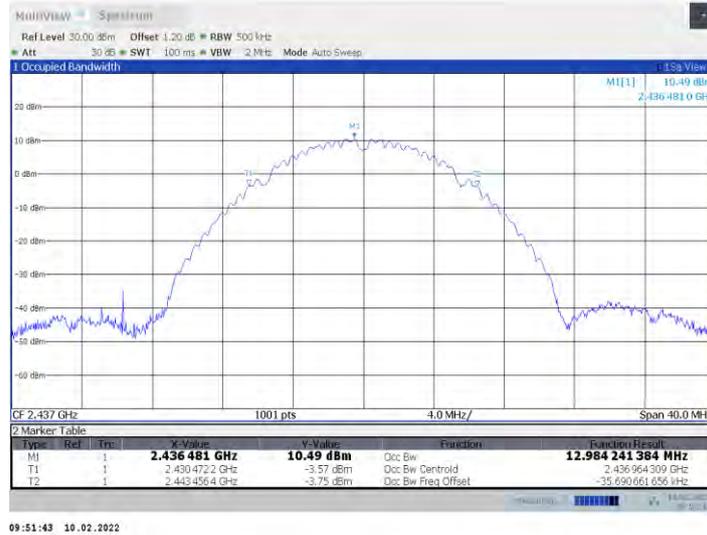


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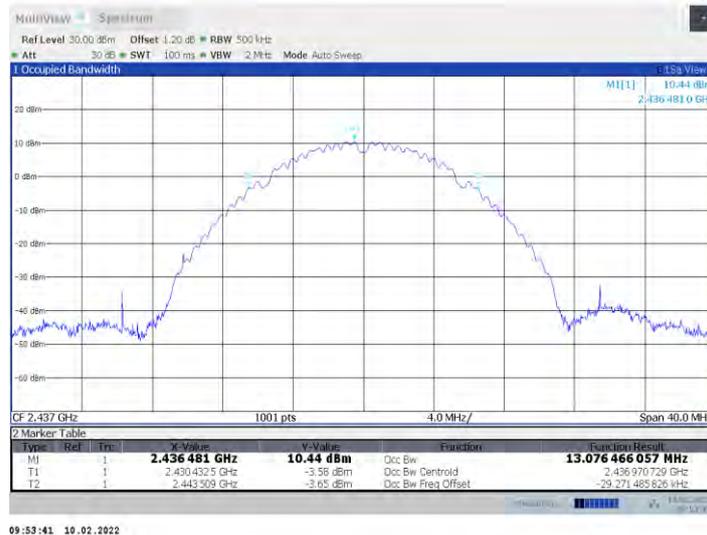
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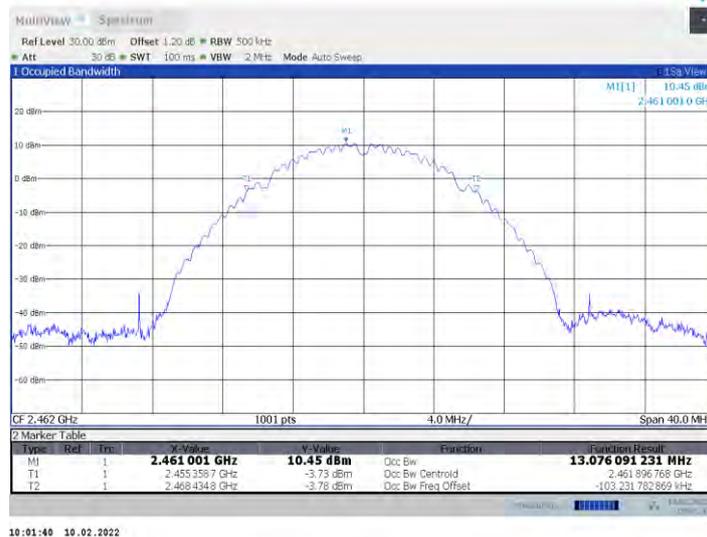
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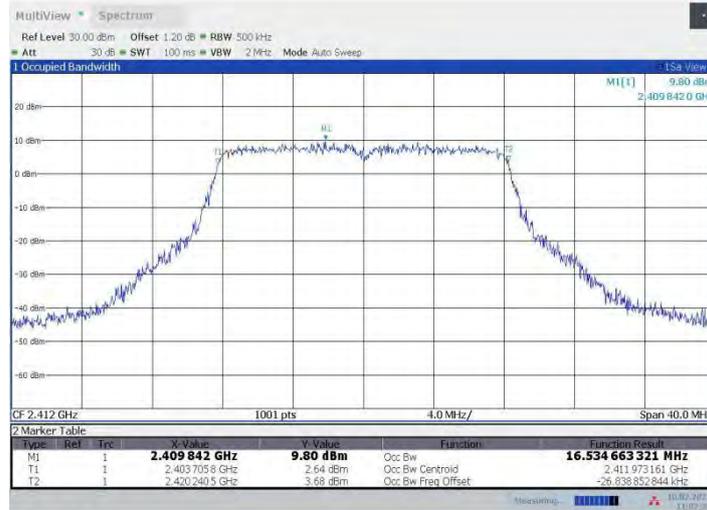


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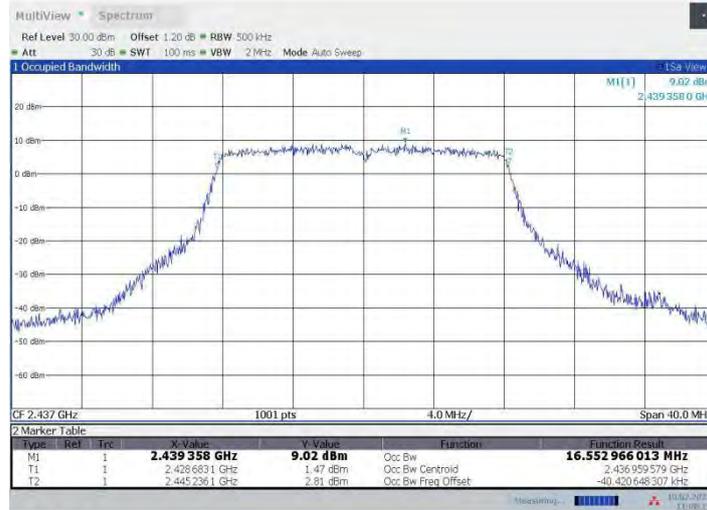
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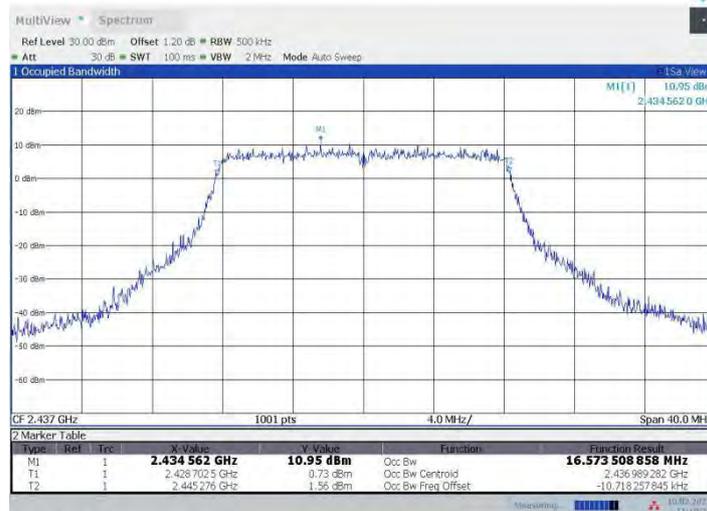
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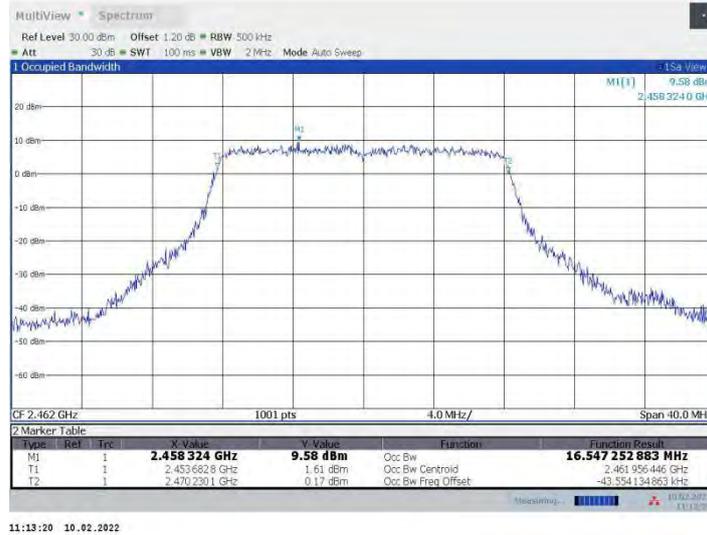
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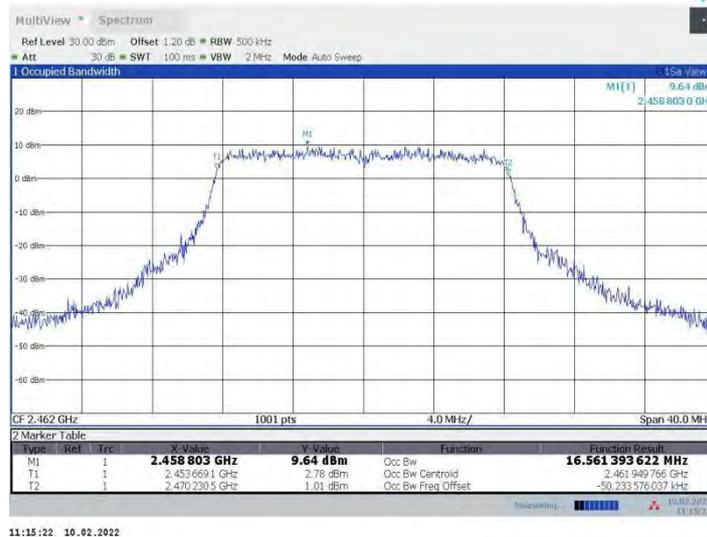
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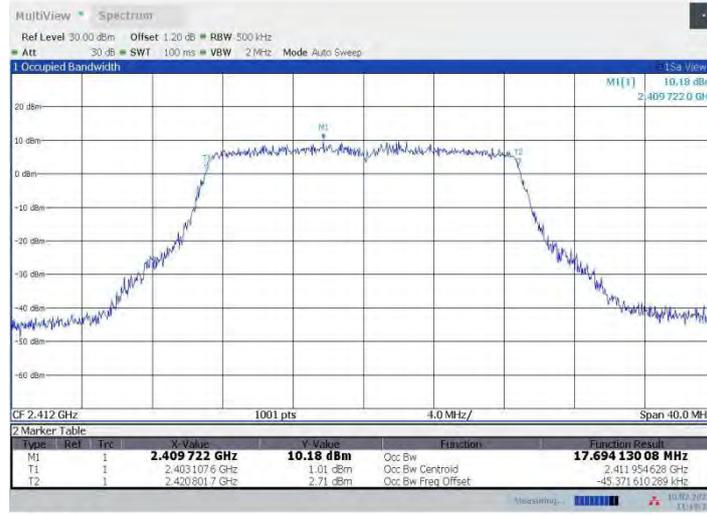


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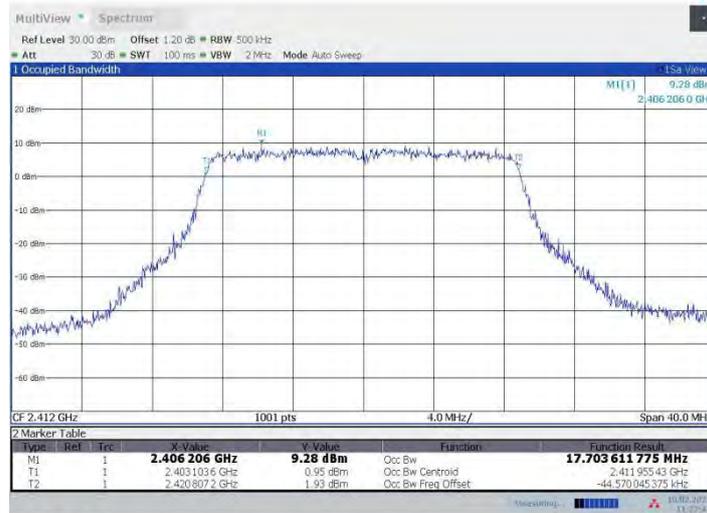
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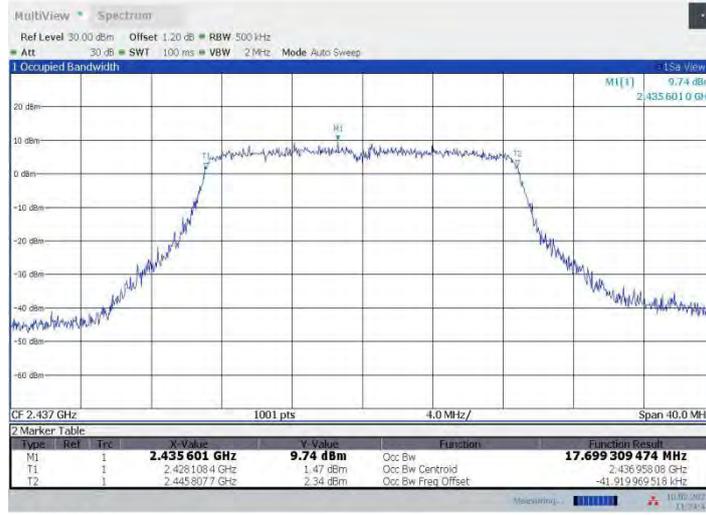


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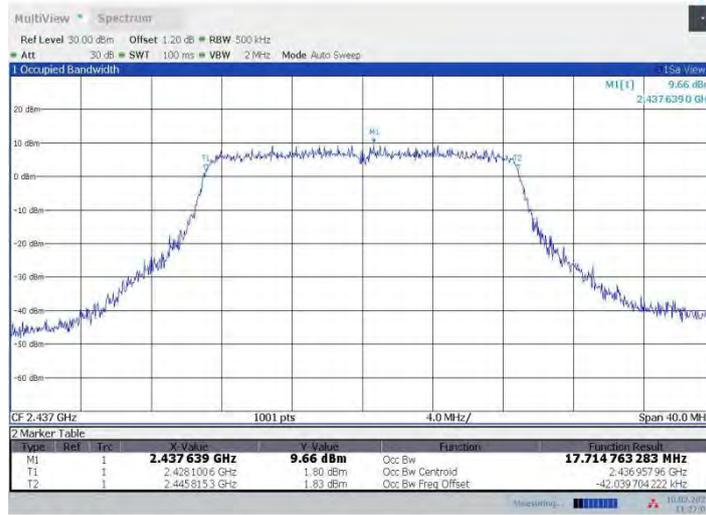
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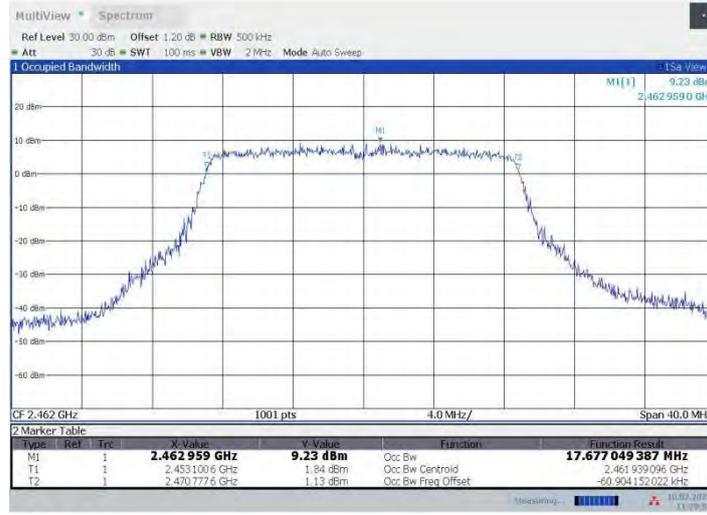


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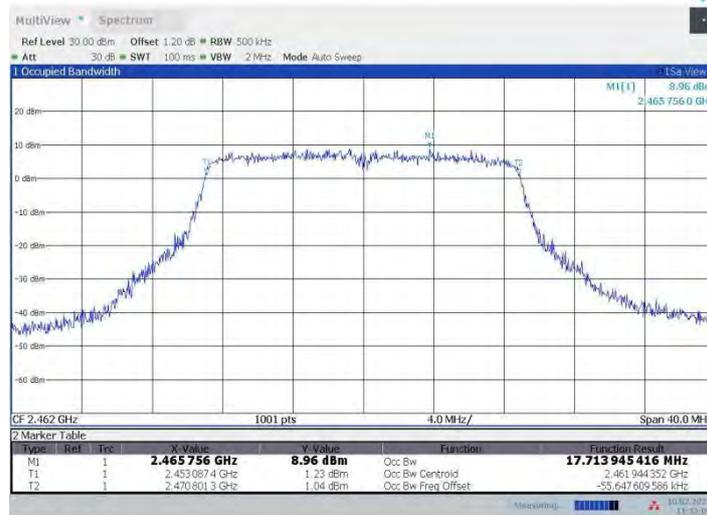
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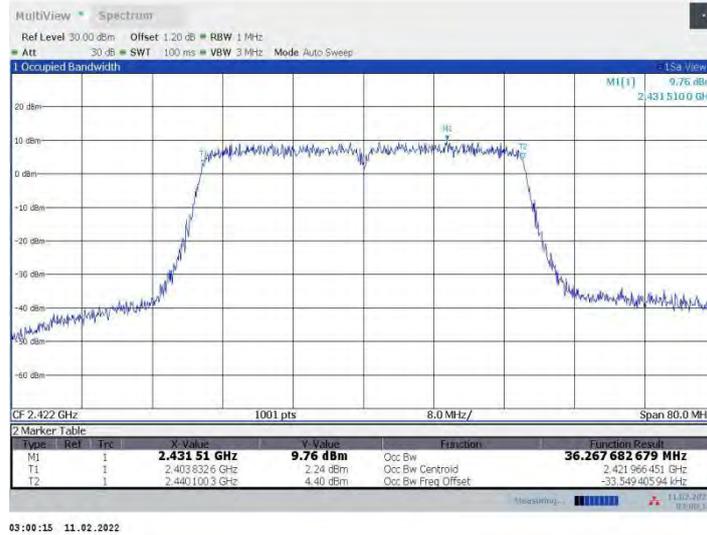


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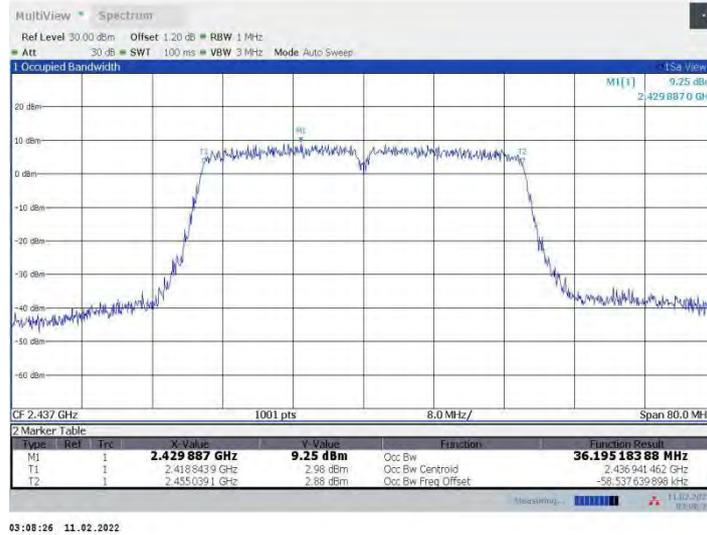


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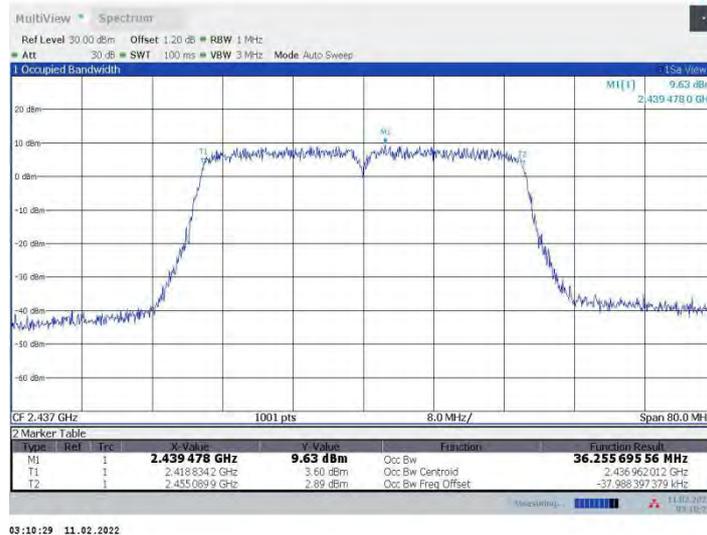
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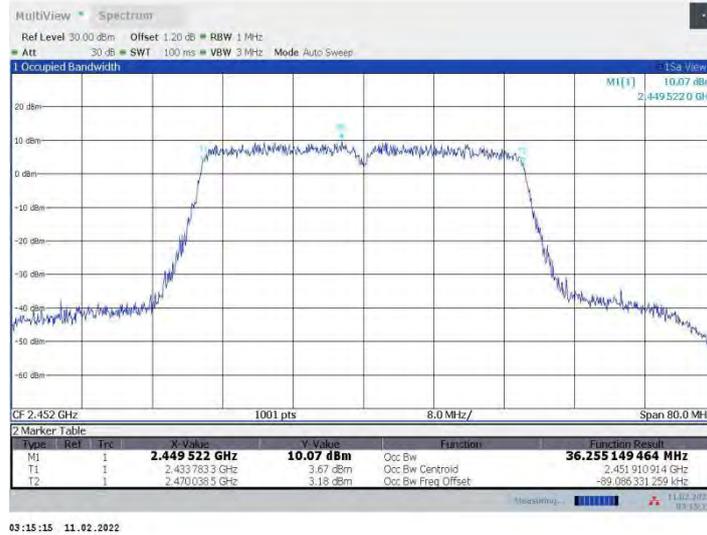


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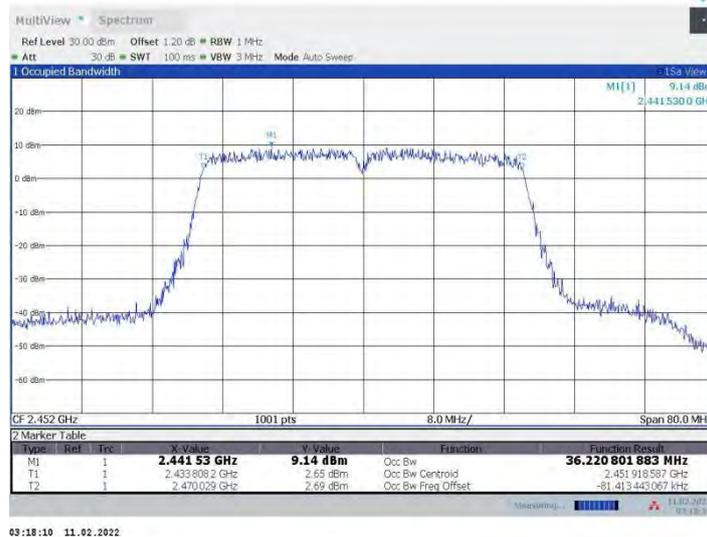
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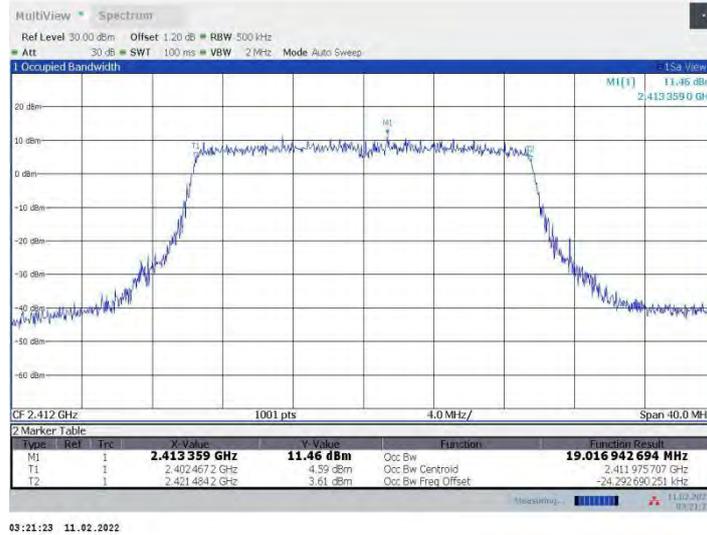
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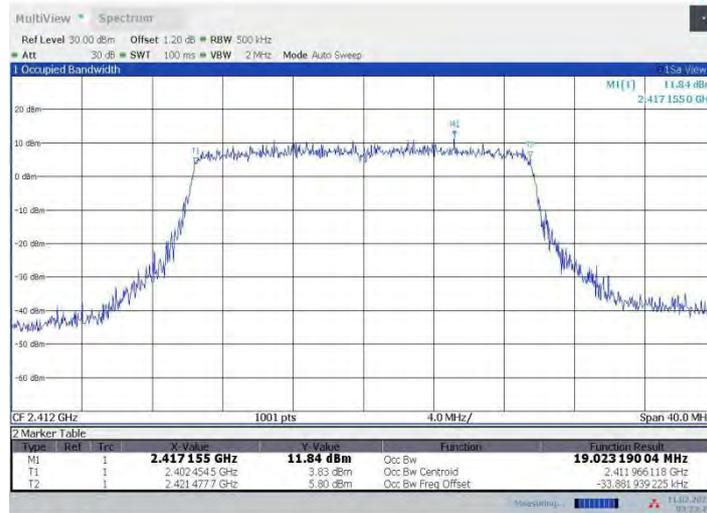
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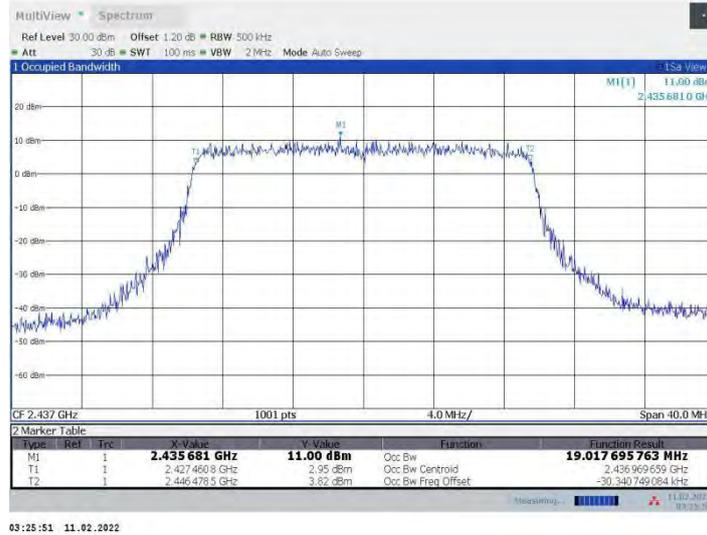
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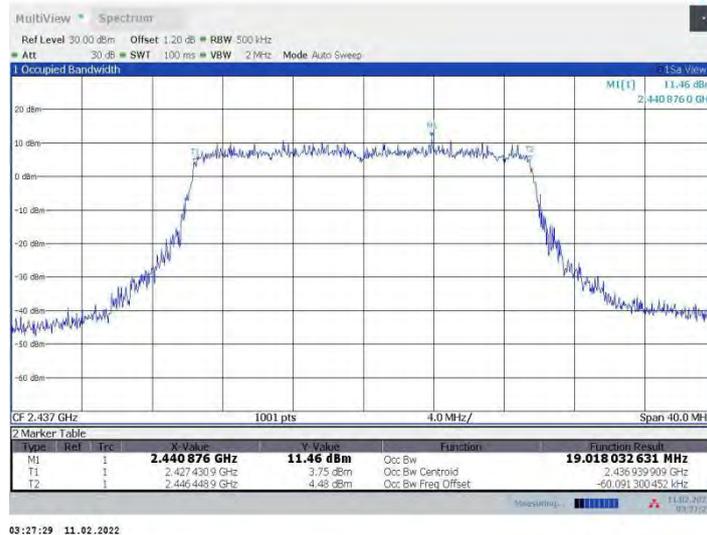
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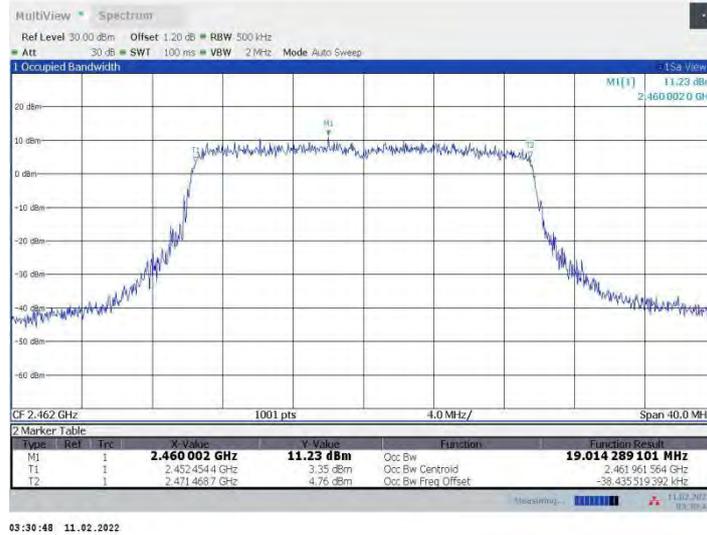
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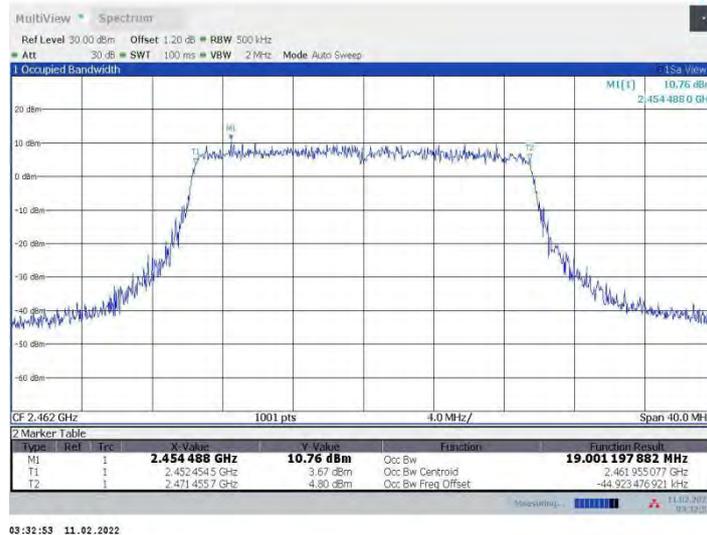
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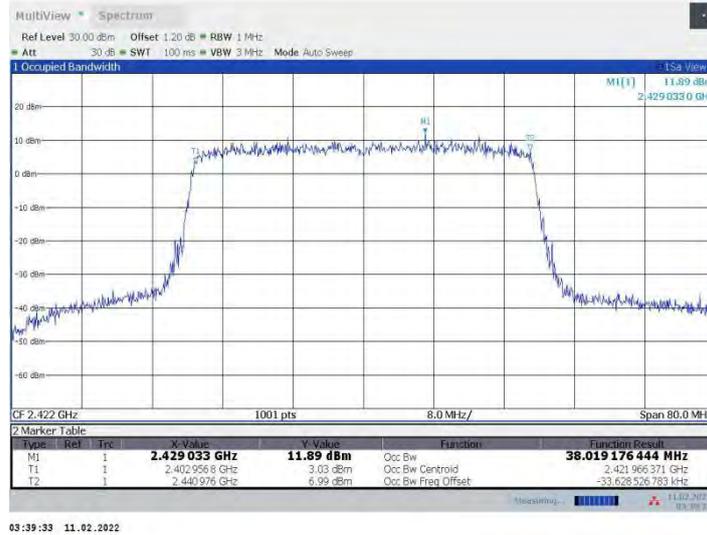
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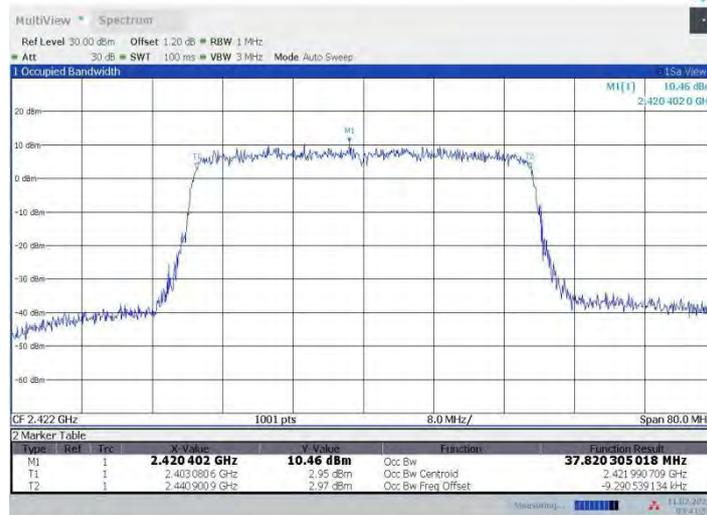
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11AX40MIMO Ant16\_2422



03:39:33 11.02.2022

11AX40MIMO Ant18\_2422



03:41:57 11.02.2022



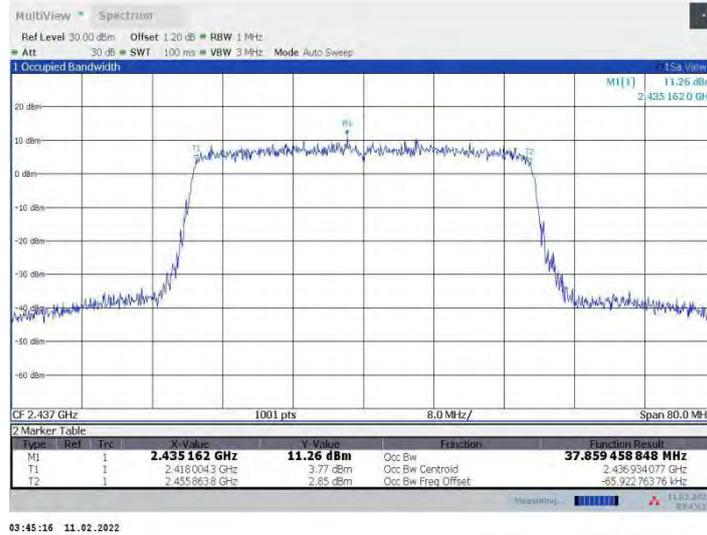
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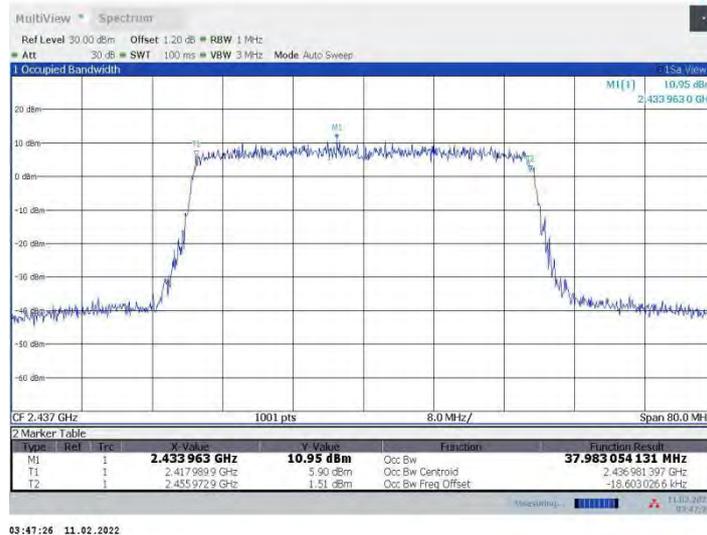
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11AX40MIMO Ant16\_2437



03:45:16 11.02.2022

11AX40MIMO Ant18\_2437



03:47:26 11.02.2022

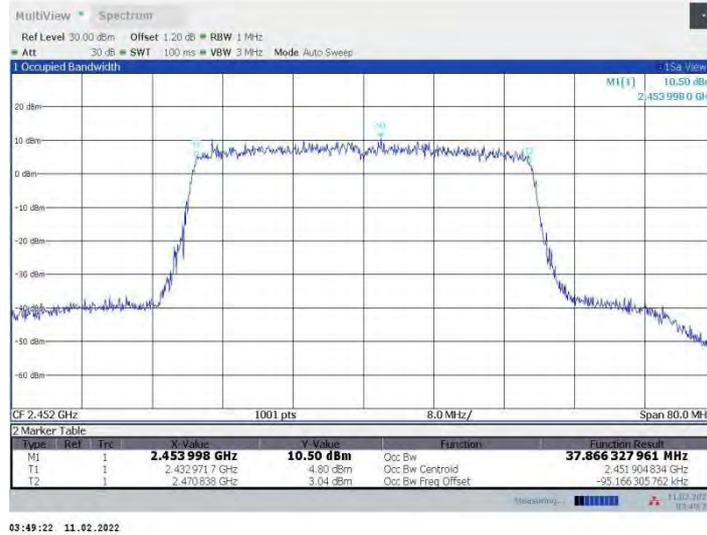


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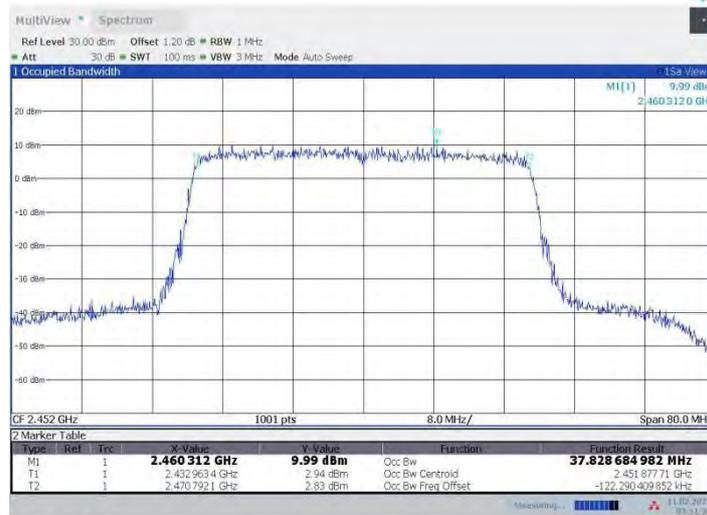
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11AX40MIMO Ant16\_2452



03:49:22 11.02.2022

11AX40MIMO Ant18\_2452



03:51:36 11.02.2022



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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B-CDD	Ant16	2412	21.23	≤30.00	PASS
	Ant18	2412	20.78	≤30.00	PASS
	total	2412	24.02	≤30.00	PASS
	Ant16	2437	20.68	≤30.00	PASS
	Ant18	2437	20.72	≤30.00	PASS
	total	2437	23.71	≤30.00	PASS
	Ant16	2462	20.90	≤30.00	PASS
	Ant18	2462	20.69	≤30.00	PASS
	total	2462	23.81	≤30.00	PASS
11G-CDD	Ant16	2412	24.37	≤30.00	PASS
	Ant18	2412	24.16	≤30.00	PASS
	total	2412	27.28	≤30.00	PASS
	Ant16	2437	23.91	≤30.00	PASS
	Ant18	2437	23.93	≤30.00	PASS
	total	2437	26.93	≤30.00	PASS
	Ant16	2462	24.04	≤30.00	PASS
	Ant18	2462	23.87	≤30.00	PASS
	total	2462	26.97	≤30.00	PASS
11N20MIMO	Ant16	2412	24.24	≤30.00	PASS
	Ant18	2412	24.25	≤30.00	PASS
	total	2412	27.26	≤30.00	PASS
	Ant16	2437	23.79	≤30.00	PASS
	Ant18	2437	23.94	≤30.00	PASS
	total	2437	26.88	≤30.00	PASS
	Ant16	2462	23.82	≤30.00	PASS
	Ant18	2462	23.74	≤30.00	PASS
	total	2462	26.79	≤30.00	PASS
11N40MIMO	Ant16	2422	24.24	≤30.00	PASS
	Ant18	2422	23.87	≤30.00	PASS
	total	2422	27.07	≤30.00	PASS
	Ant16	2437	23.51	≤30.00	PASS
	Ant18	2437	23.94	≤30.00	PASS
	total	2437	26.74	≤30.00	PASS
	Ant16	2452	23.97	≤30.00	PASS
	Ant18	2452	23.72	≤30.00	PASS
	total	2452	26.86	≤30.00	PASS
11AX20MIMO	Ant16	2412	25.17	≤30.00	PASS
	Ant18	2412	24.88	≤30.00	PASS
	total	2412	28.04	≤30.00	PASS
	Ant16	2437	24.70	≤30.00	PASS
	Ant18	2437	24.78	≤30.00	PASS
	total	2437	27.75	≤30.00	PASS
	Ant16	2462	24.82	≤30.00	PASS
	Ant18	2462	24.55	≤30.00	PASS
	total	2462	27.70	≤30.00	PASS
11AX40MIMO	Ant16	2422	24.94	≤30.00	PASS
	Ant18	2422	24.44	≤30.00	PASS
	total	2422	27.71	≤30.00	PASS
	Ant16	2437	24.16	≤30.00	PASS
	Ant18	2437	24.51	≤30.00	PASS



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	total	2437	27.35	≤30.00	PASS
	Ant16	2452	24.38	≤30.00	PASS
	Ant18	2452	24.62	≤30.00	PASS
	total	2452	27.51	≤30.00	PASS

Test Mode	Antenna	Frequency [MHz]	Ru Size	Ru Index	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	22.64	≤30.00	PASS
			52Tone	RU37	23.79	≤30.00	PASS
			106Tone	RU53	23.32	≤30.00	PASS
	Ant18	2412	26Tone	RU0	22.19	≤30.00	PASS
			52Tone	RU37	23.38	≤30.00	PASS
			106Tone	RU53	23.76	≤30.00	PASS
	total	2412	26Tone	RU0	25.43	≤30.00	PASS
			52Tone	RU37	26.60	≤30.00	PASS
			106Tone	RU53	26.56	≤30.00	PASS
	Ant16	2437	26Tone	RU4	22.61	≤30.00	PASS
			52Tone	RU38	23.11	≤30.00	PASS
			106Tone	RU53	23.22	≤30.00	PASS
	Ant18	2437	26Tone	RU4	21.84	≤30.00	PASS
			52Tone	RU38	23.13	≤30.00	PASS
			106Tone	RU53	23.39	≤30.00	PASS
	total	2437	26Tone	RU4	25.25	≤30.00	PASS
			52Tone	RU38	26.13	≤30.00	PASS
			106Tone	RU53	26.32	≤30.00	PASS
	Ant16	2462	26Tone	RU8	21.53	≤30.00	PASS
			52Tone	RU40	22.88	≤30.00	PASS
			106Tone	RU54	23.09	≤30.00	PASS
	Ant18	2462	26Tone	RU8	22.10	≤30.00	PASS
			52Tone	RU40	22.72	≤30.00	PASS
			106Tone	RU54	22.74	≤30.00	PASS
total	2462	26Tone	RU8	24.83	≤30.00	PASS	
		52Tone	RU40	25.81	≤30.00	PASS	
		106Tone	RU54	25.93	≤30.00	PASS	
11AX40MIMO	Ant16	2422	242Tone	RU61	23.06	≤30.00	PASS
	Ant18	2422	242Tone	RU61	23.40	≤30.00	PASS
	total	2422	242Tone	RU61	26.24	≤30.00	PASS
	Ant16	2437	242Tone	RU61	22.93	≤30.00	PASS
	Ant18	2437	242Tone	RU61	23.14	≤30.00	PASS
	total	2437	242Tone	RU61	26.05	≤30.00	PASS
	Ant16	2452	242Tone	RU62	22.84	≤30.00	PASS
	Ant18	2452	242Tone	RU62	23.05	≤30.00	PASS
	total	2452	242Tone	RU62	25.96	≤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	Ant16	2412	-5.37	≤8.00	PASS
	Ant18	2412	-5.6	≤8.00	PASS
	total	2412	-2.47	≤8.00	PASS
	Ant16	2437	-5.83	≤8.00	PASS
	Ant18	2437	-5.84	≤8.00	PASS
	total	2437	-2.82	≤8.00	PASS
	Ant16	2462	-5.58	≤8.00	PASS
	Ant18	2462	-5.74	≤8.00	PASS
	total	2462	-2.65	≤8.00	PASS
11G-CDD	Ant16	2412	-8.13	≤8.00	PASS
	Ant18	2412	-7.98	≤8.00	PASS
	total	2412	-5.04	≤8.00	PASS
	Ant16	2437	-8.34	≤8.00	PASS
	Ant18	2437	-8.07	≤8.00	PASS
	total	2437	-5.19	≤8.00	PASS
	Ant16	2462	-8.01	≤8.00	PASS
	Ant18	2462	-8.76	≤8.00	PASS
	total	2462	-5.36	≤8.00	PASS
11N20MIMO	Ant16	2412	-6.54	≤8.00	PASS
	Ant18	2412	-6.85	≤8.00	PASS
	total	2412	-3.68	≤8.00	PASS
	Ant16	2437	-7.75	≤8.00	PASS
	Ant18	2437	-7.32	≤8.00	PASS
	total	2437	-4.52	≤8.00	PASS
	Ant16	2462	-7.36	≤8.00	PASS
	Ant18	2462	-7.2	≤8.00	PASS
	total	2462	-4.27	≤8.00	PASS
11N40MIMO	Ant16	2422	-10.74	≤8.00	PASS
	Ant18	2422	-11.36	≤8.00	PASS
	total	2422	-8.03	≤8.00	PASS
	Ant16	2437	-11.25	≤8.00	PASS
	Ant18	2437	-11.3	≤8.00	PASS
	total	2437	-8.26	≤8.00	PASS
	Ant16	2452	-10.86	≤8.00	PASS
	Ant18	2452	-11.09	≤8.00	PASS
	total	2452	-7.96	≤8.00	PASS
11AX20MIMO	Ant16	2412	-7.99	≤8.00	PASS
	Ant18	2412	-8.63	≤8.00	PASS
	total	2412	-5.29	≤8.00	PASS
	Ant16	2437	-8.77	≤8.00	PASS
	Ant18	2437	-8.81	≤8.00	PASS
	total	2437	-5.78	≤8.00	PASS
	Ant16	2462	-8.21	≤8.00	PASS
	Ant18	2462	-9.5	≤8.00	PASS
	total	2462	-5.80	≤8.00	PASS
11AX40MIMO	Ant16	2422	-10.31	≤8.00	PASS
	Ant18	2422	-11.51	≤8.00	PASS
	total	2422	-7.86	≤8.00	PASS
	Ant16	2437	-11.2	≤8.00	PASS
	Ant18	2437	-11.34	≤8.00	PASS



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	total	2437	-8.26	≤8.00	PASS
	Ant16	2452	-11.39	≤8.00	PASS
	Ant18	2452	-10.82	≤8.00	PASS
	total	2452	-8.09	≤8.00	PASS

TestMode	Antenna	Frequency [MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	-1.08	≤8.00	PASS
			52Tone	RU37	-4.31	≤8.00	PASS
			106Tone	RU53	-9	≤8.00	PASS
	Ant18	2412	26Tone	RU0	-2.98	≤8.00	PASS
			52Tone	RU37	-6.11	≤8.00	PASS
			106Tone	RU53	-7.6	≤8.00	PASS
	total	2412	26Tone	RU0	1.08	≤8.00	PASS
			52Tone	RU37	-2.11	≤8.00	PASS
			106Tone	RU53	-5.23	≤8.00	PASS
	Ant16	2437	26Tone	RU4	-1.72	≤8.00	PASS
			52Tone	RU38	-6.25	≤8.00	PASS
			106Tone	RU53	-8.03	≤8.00	PASS
	Ant18	2437	26Tone	RU4	-2.8	≤8.00	PASS
			52Tone	RU38	-5.16	≤8.00	PASS
			106Tone	RU53	-7.57	≤8.00	PASS
	total	2437	26Tone	RU4	0.78	≤8.00	PASS
			52Tone	RU38	-2.66	≤8.00	PASS
			106Tone	RU53	-4.78	≤8.00	PASS
	Ant16	2462	26Tone	RU8	-2.79	≤8.00	PASS
			52Tone	RU40	-5.49	≤8.00	PASS
			106Tone	RU54	-8.24	≤8.00	PASS
	Ant18	2462	26Tone	RU8	-3.01	≤8.00	PASS
			52Tone	RU40	-3.92	≤8.00	PASS
			106Tone	RU54	-7.36	≤8.00	PASS
total	2462	26Tone	RU8	0.11	≤8.00	PASS	
		52Tone	RU40	-1.62	≤8.00	PASS	
		106Tone	RU54	-4.77	≤8.00	PASS	
11AX40MIMO	Ant16	2422	242Tone	RU61	-11.99	≤8.00	PASS
	Ant18	2422	242Tone	RU61	-12.01	≤8.00	PASS
	total	2422	242Tone	RU61	-8.99	≤8.00	PASS
	Ant16	2437	242Tone	RU61	-10.39	≤8.00	PASS
	Ant18	2437	242Tone	RU61	-10.9	≤8.00	PASS
	total	2437	242Tone	RU61	-7.63	≤8.00	PASS
	Ant16	2452	242Tone	RU62	-11.91	≤8.00	PASS
	Ant18	2452	242Tone	RU62	-12.1	≤8.00	PASS
total	2452	242Tone	RU62	-8.99	≤8.00	PASS	



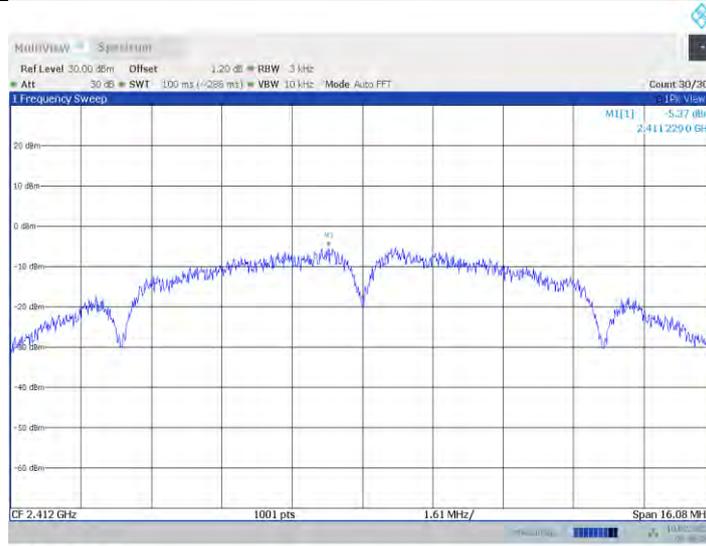
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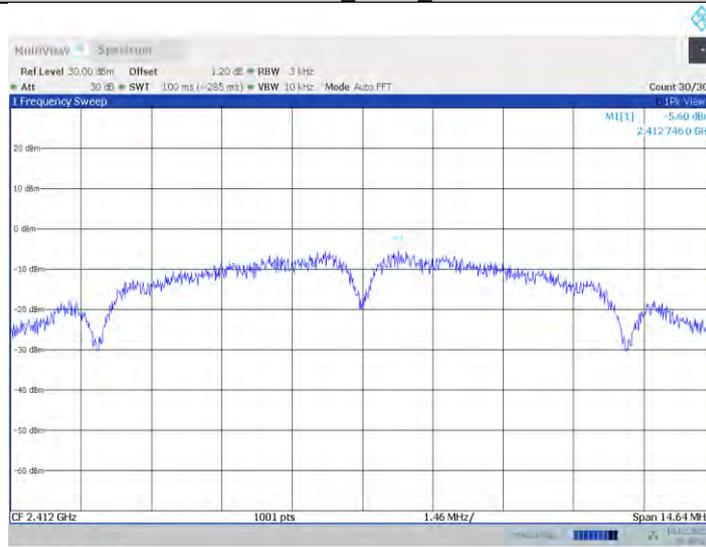
Test Graphs

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11B-CDD\_Ant18\_2412



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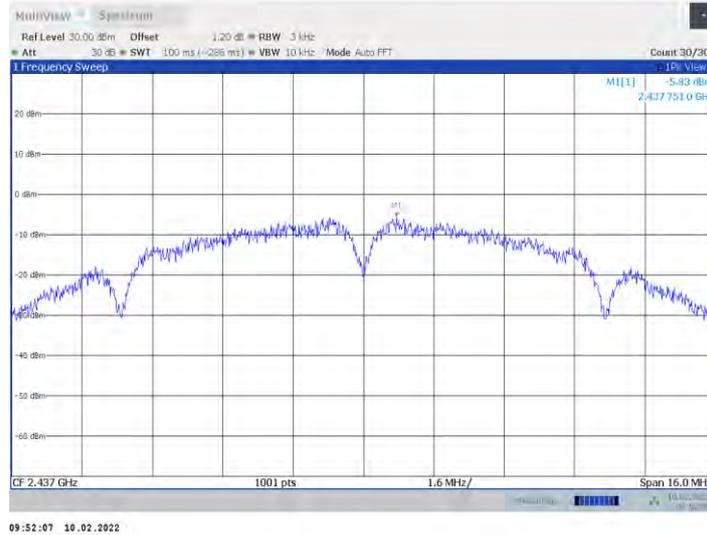


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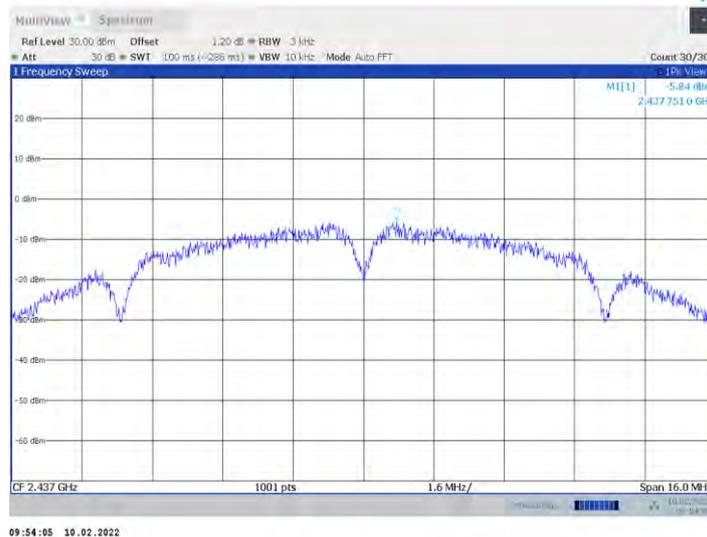
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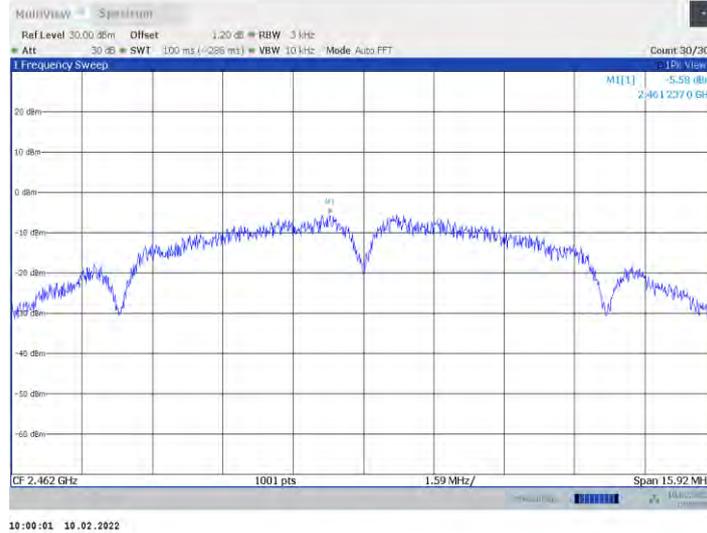


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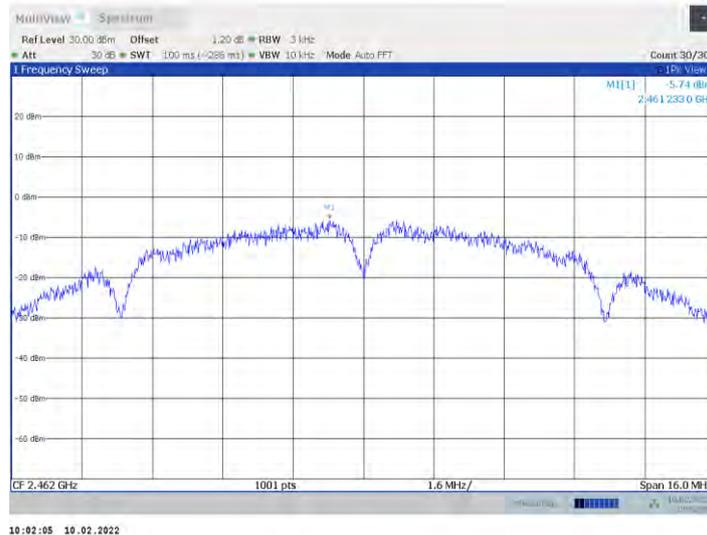


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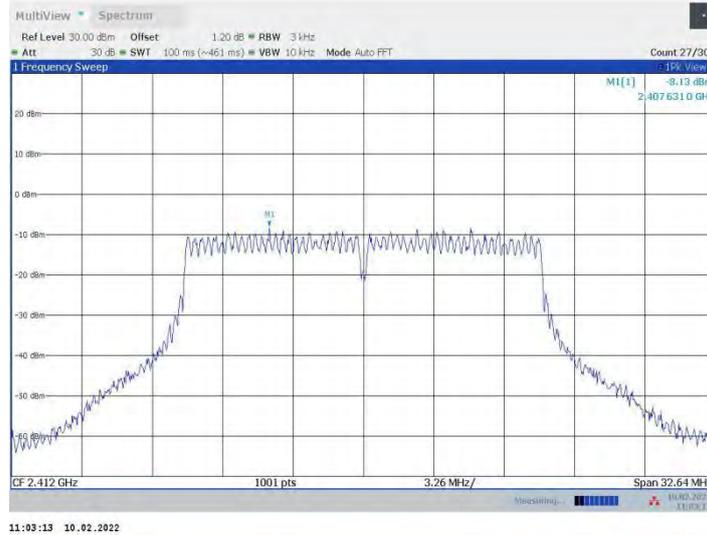


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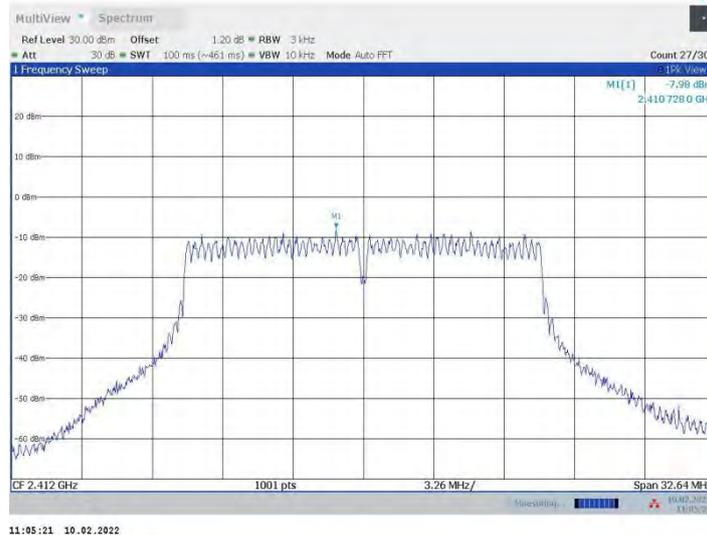


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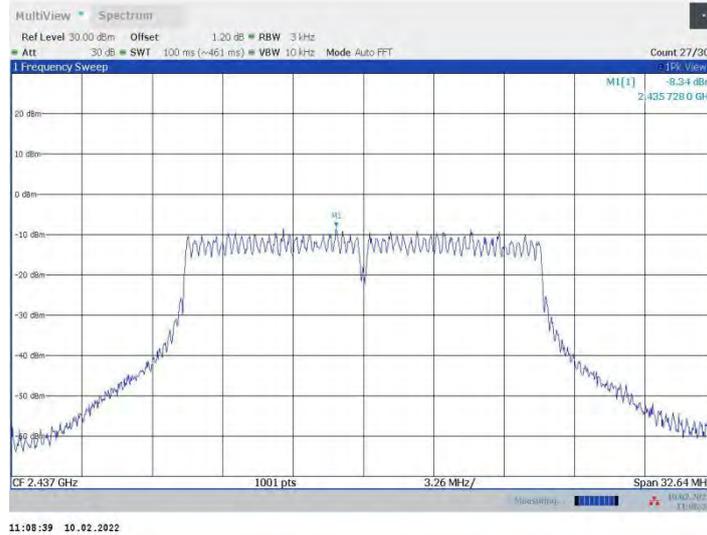


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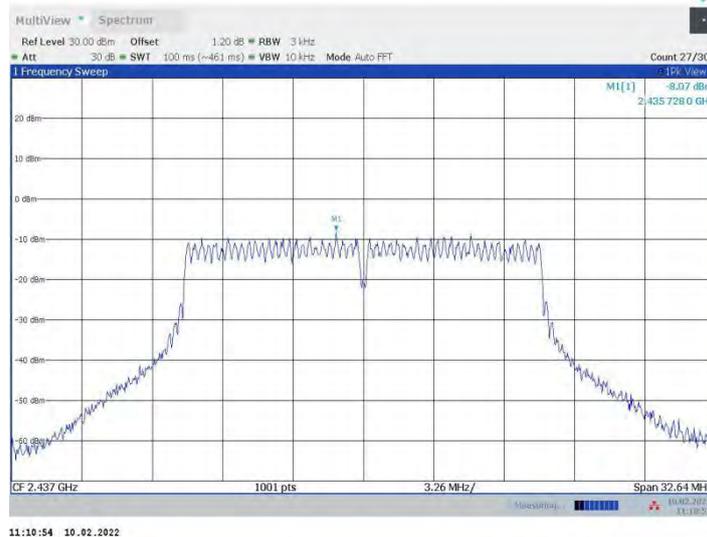
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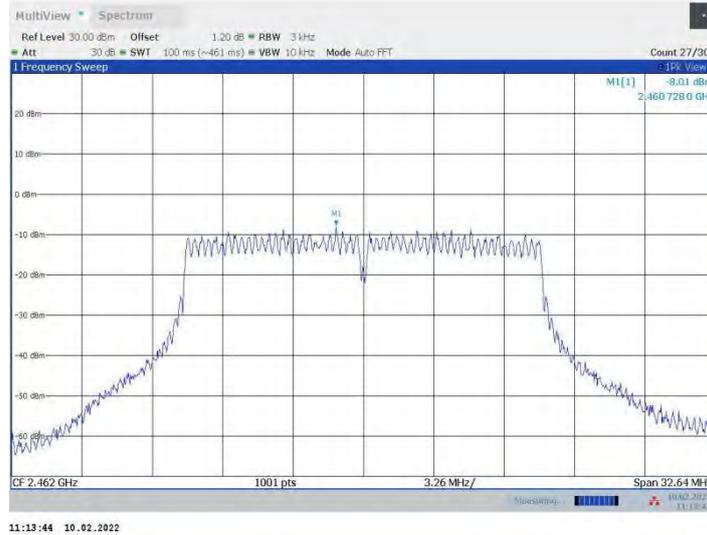


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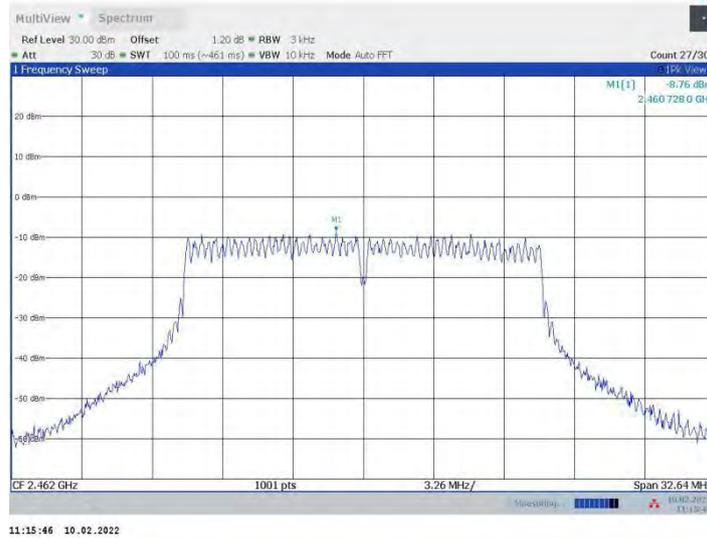
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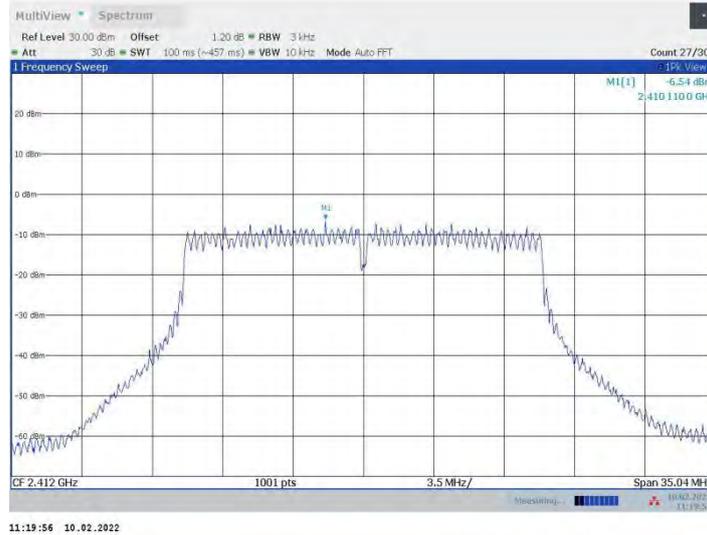


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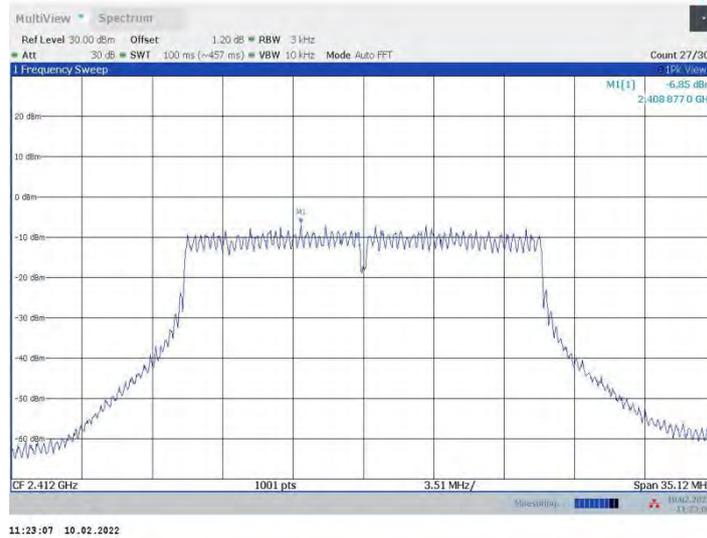
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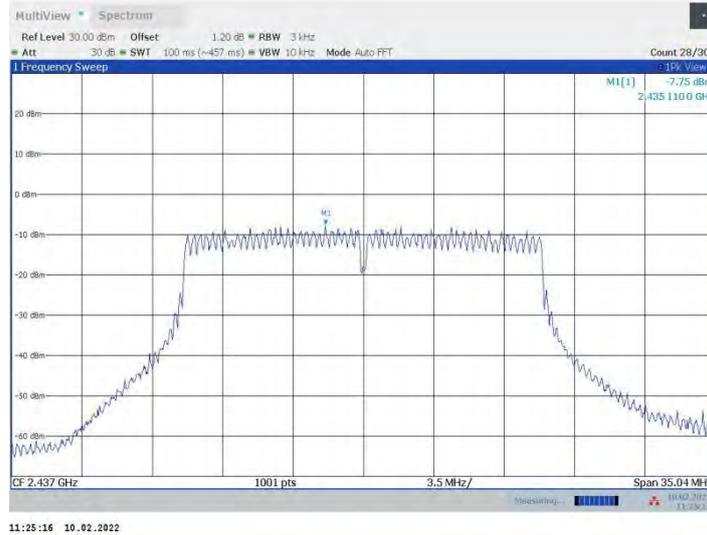


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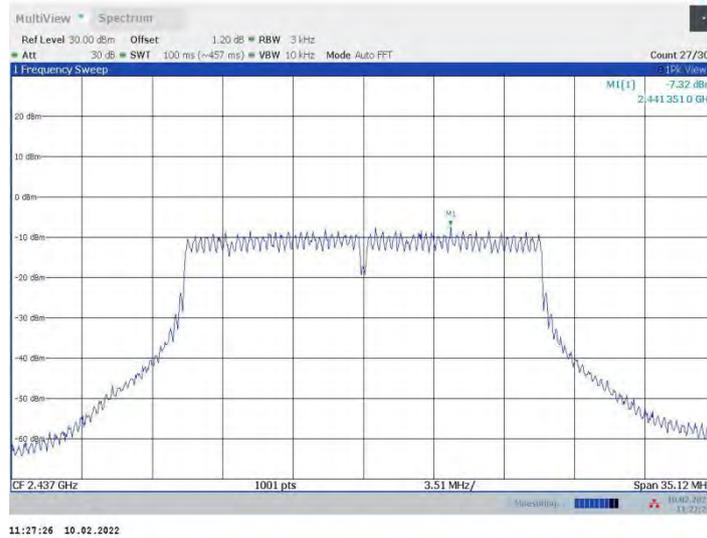
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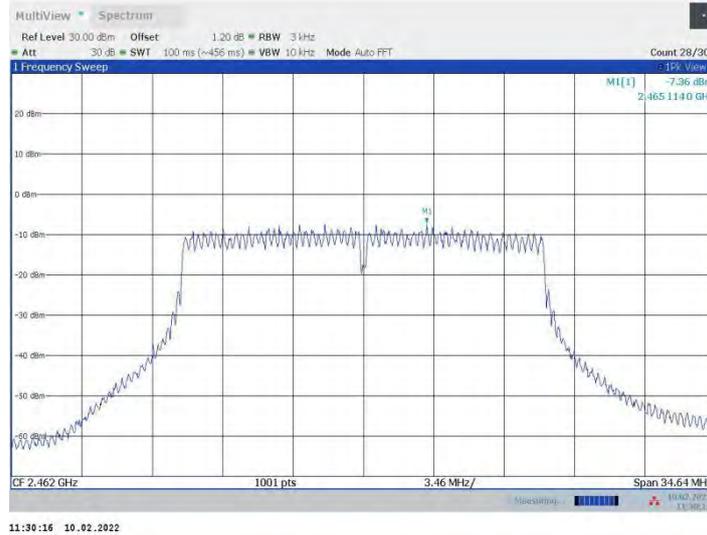


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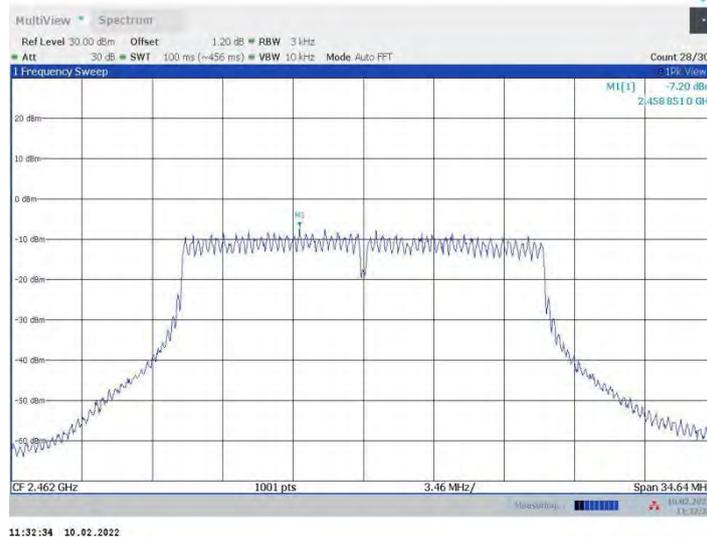
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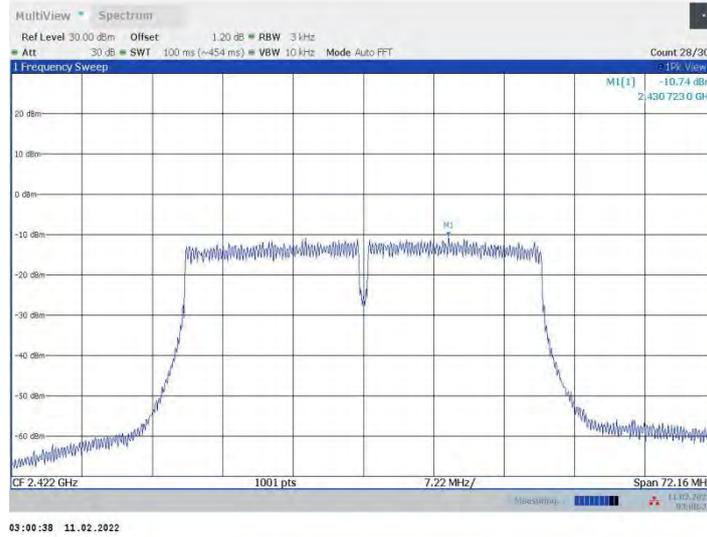
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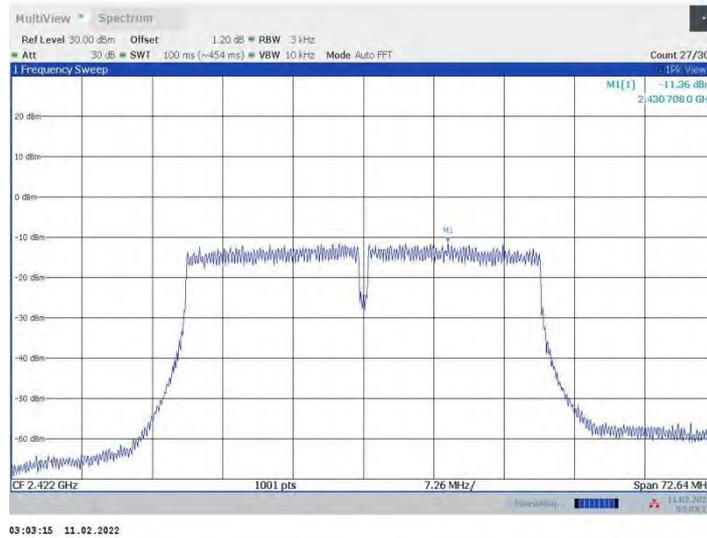
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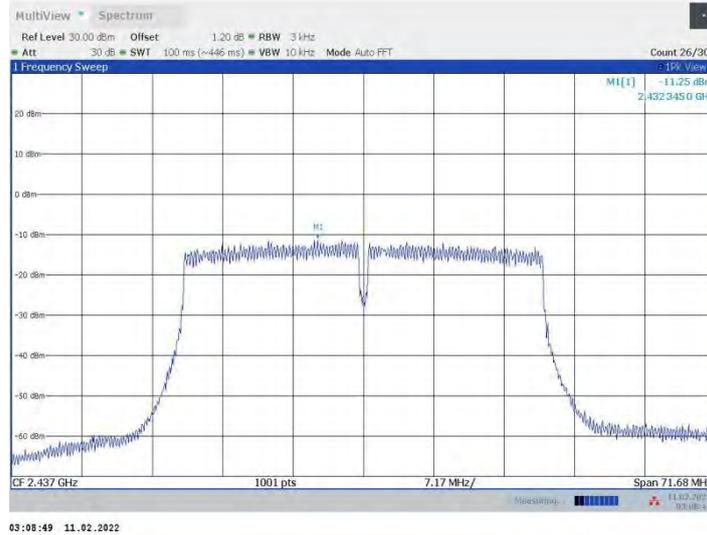


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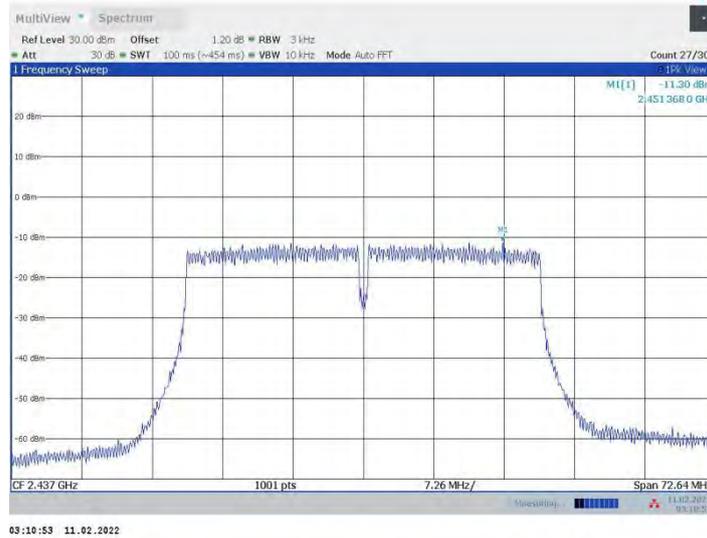
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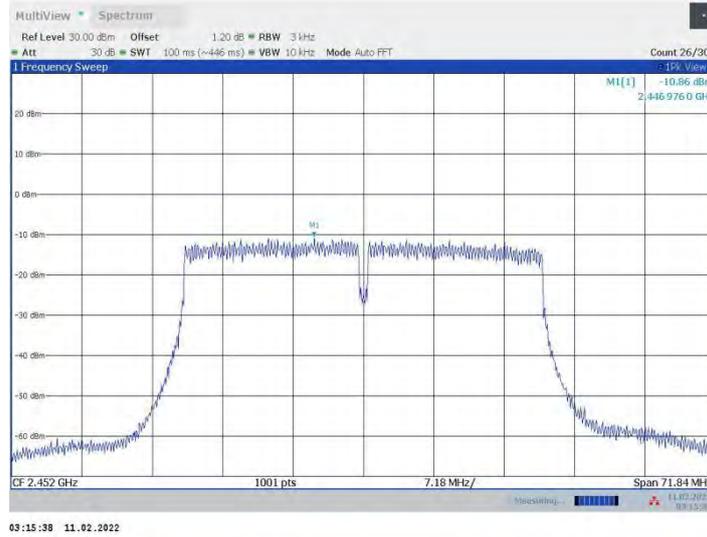
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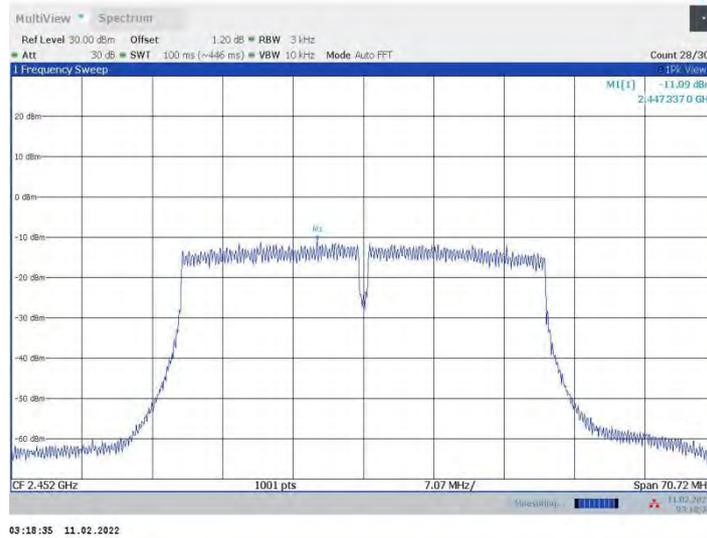
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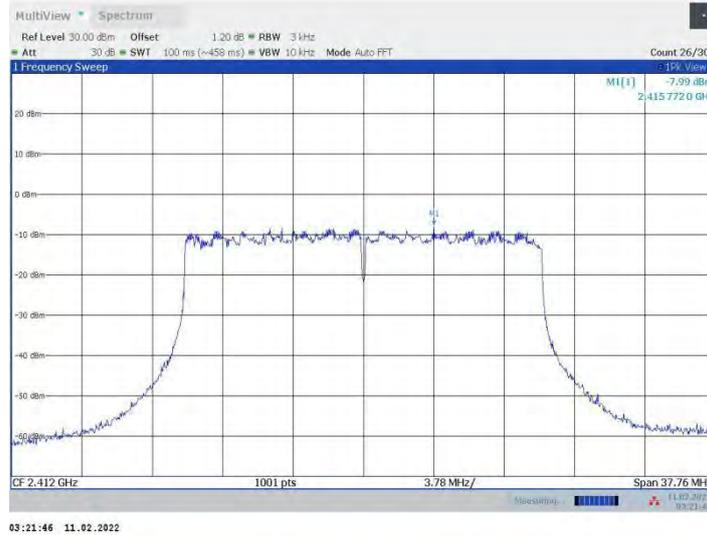


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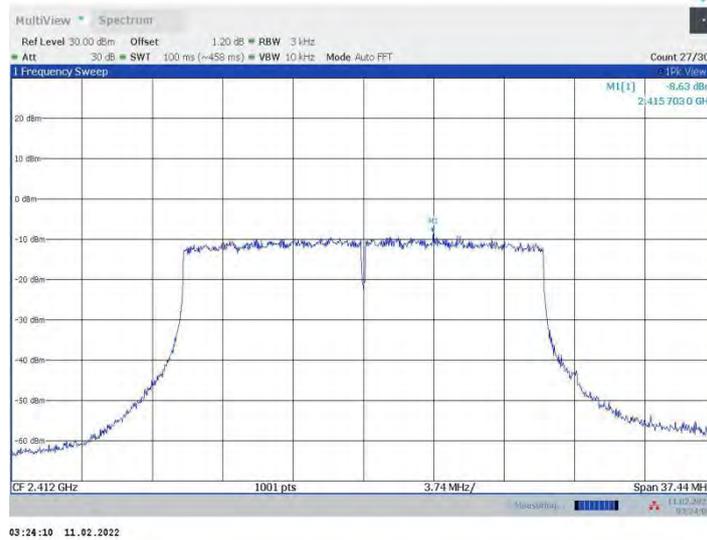
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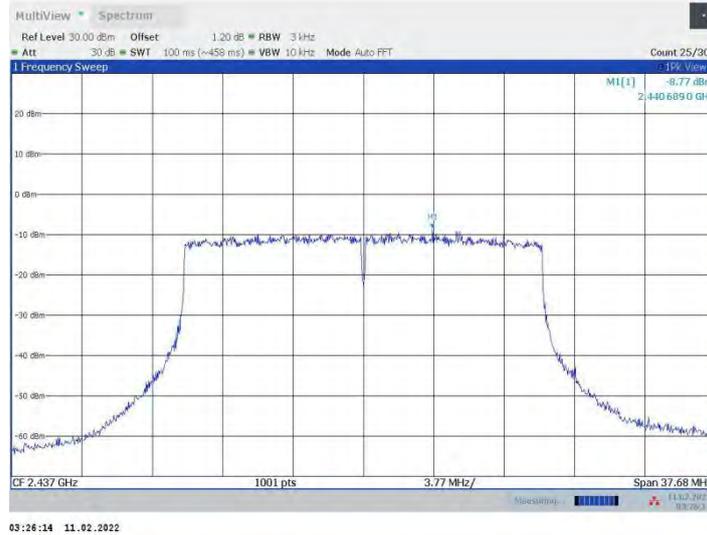


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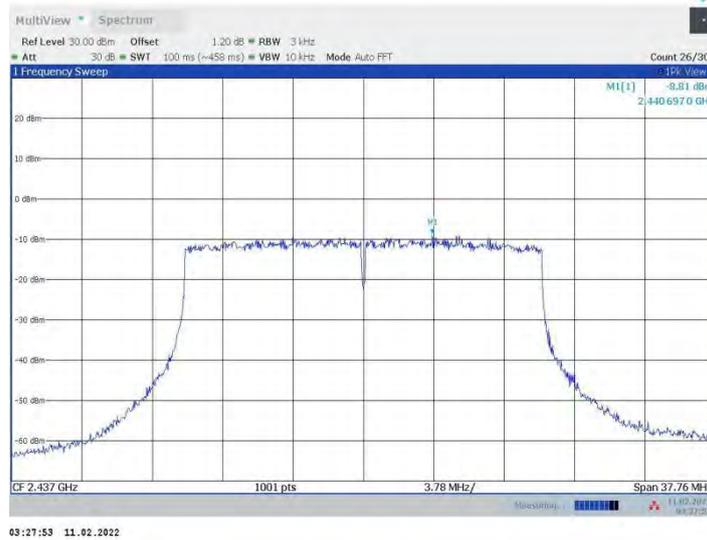
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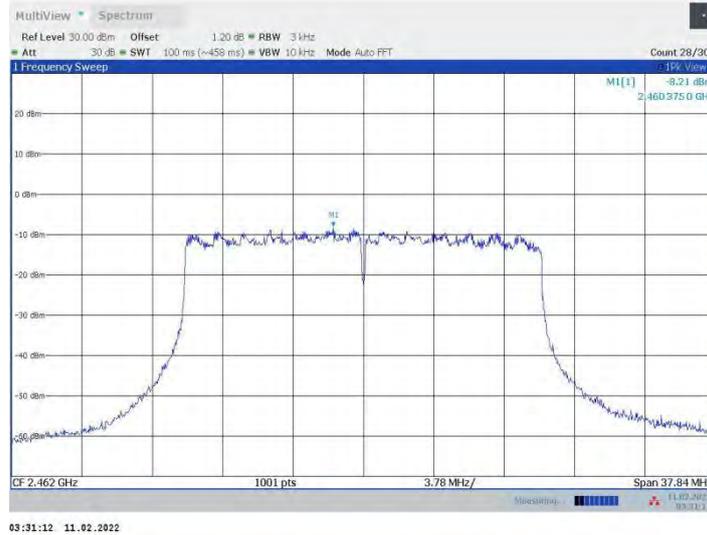


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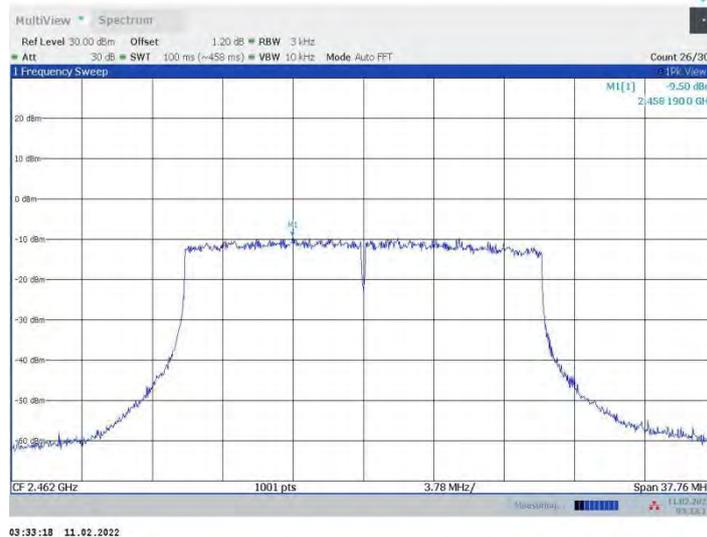
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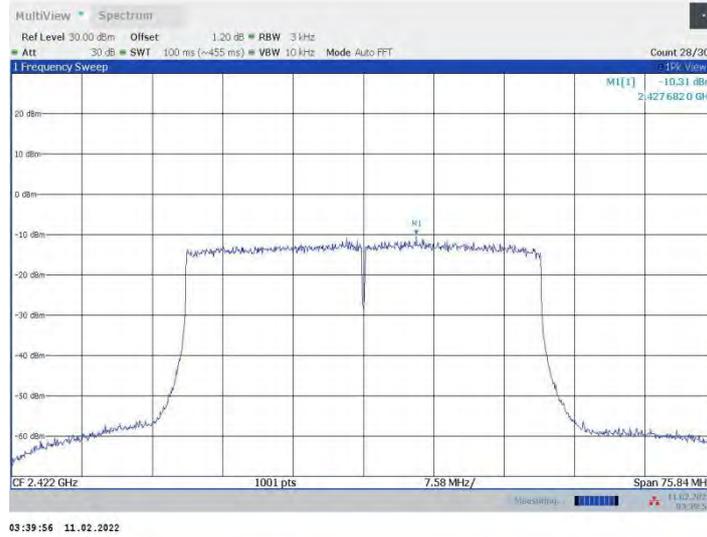


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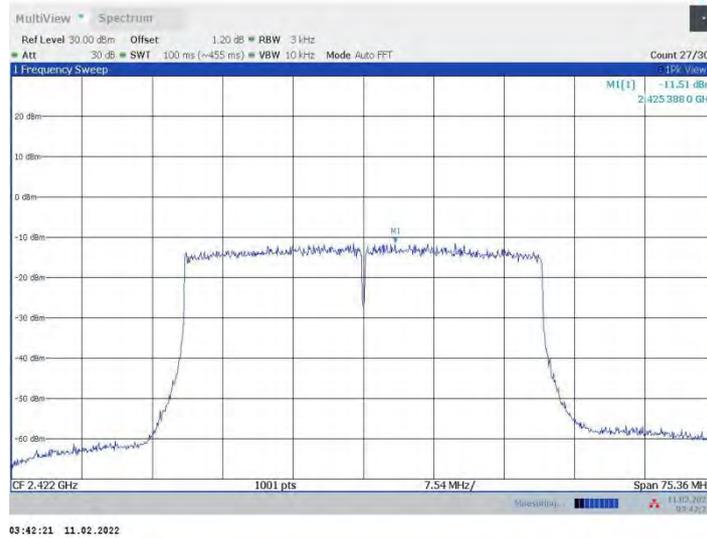
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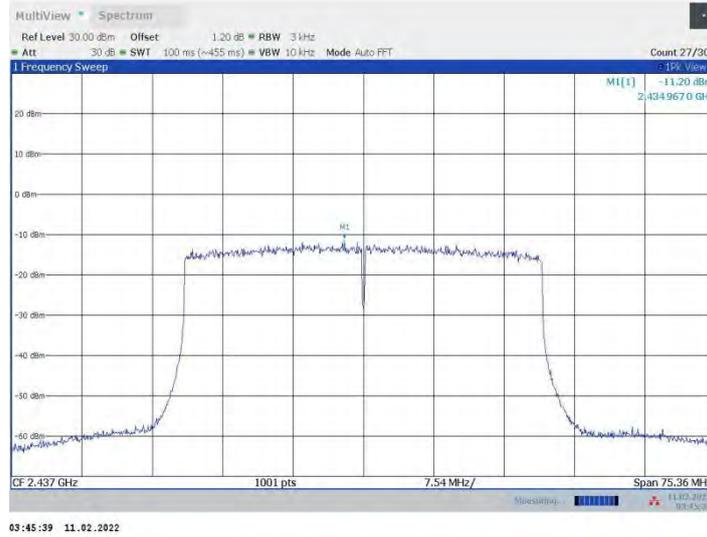


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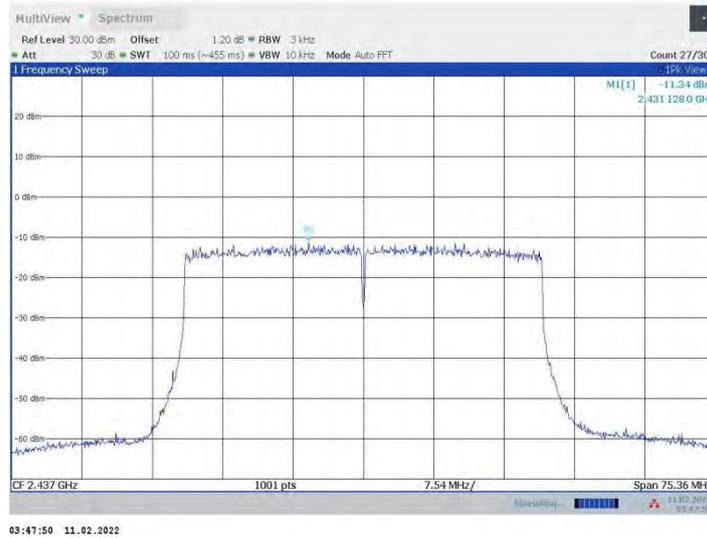
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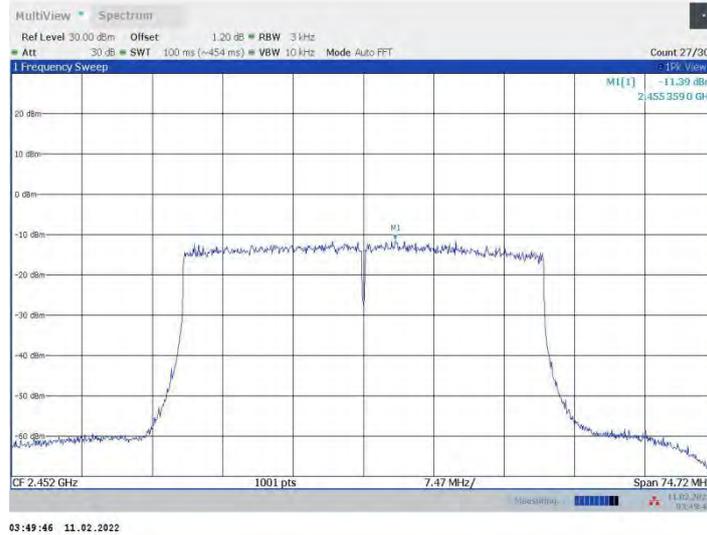


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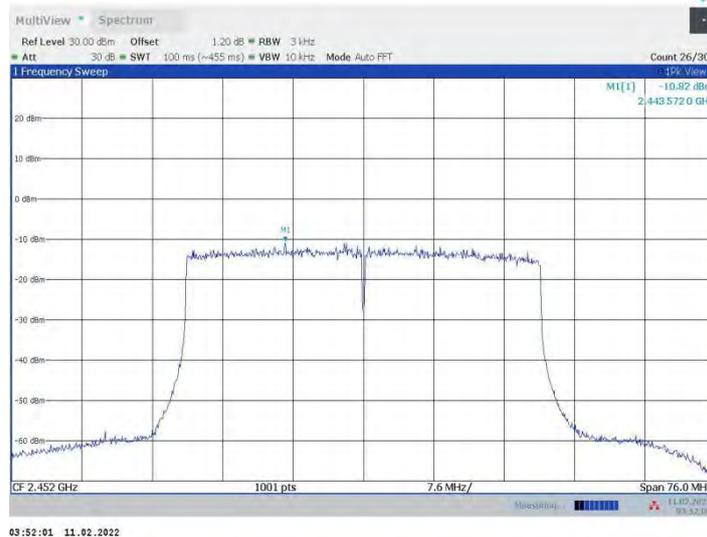
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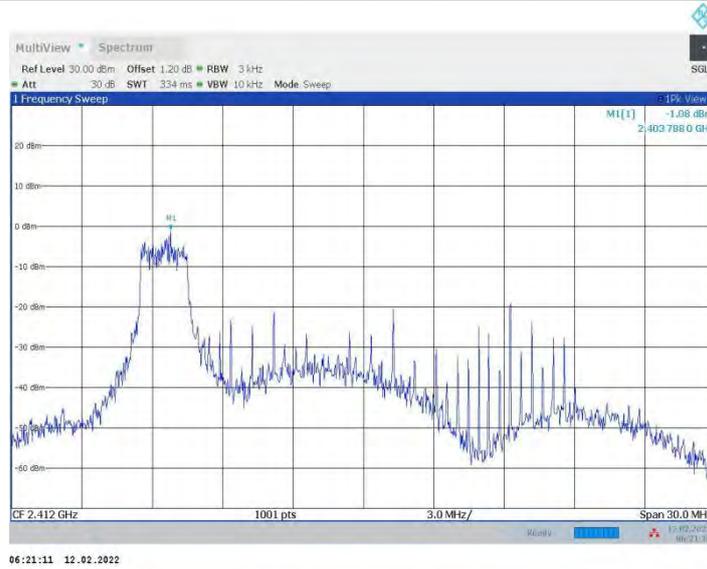


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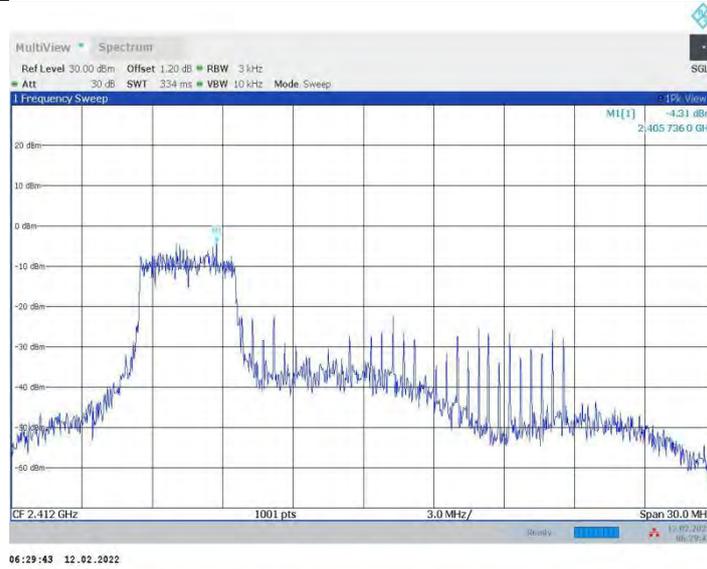
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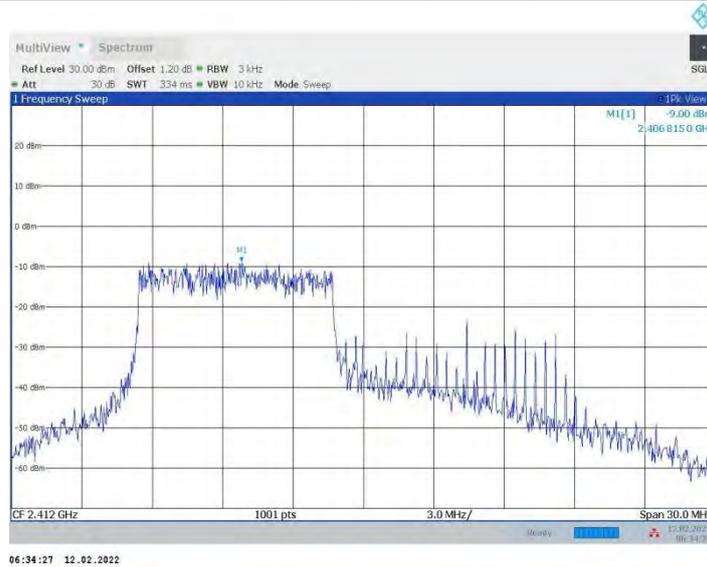


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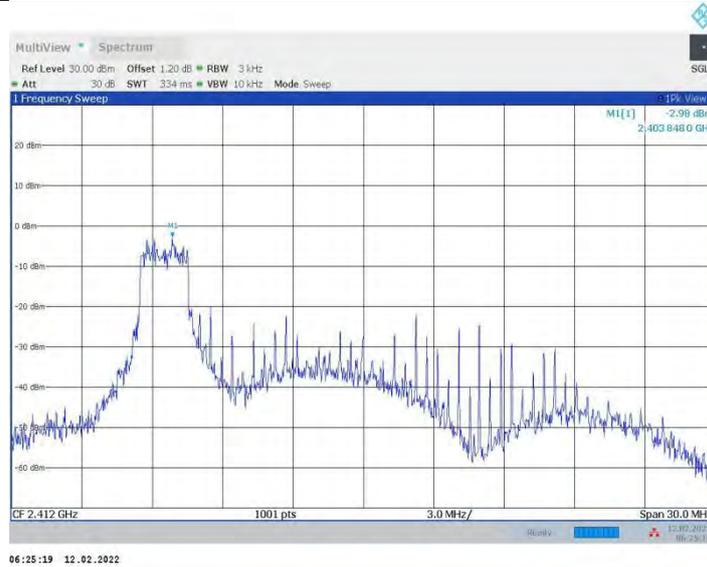
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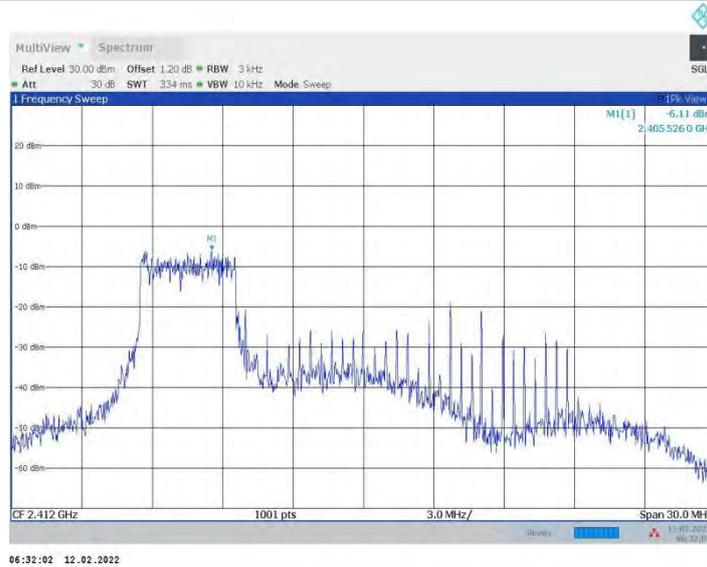


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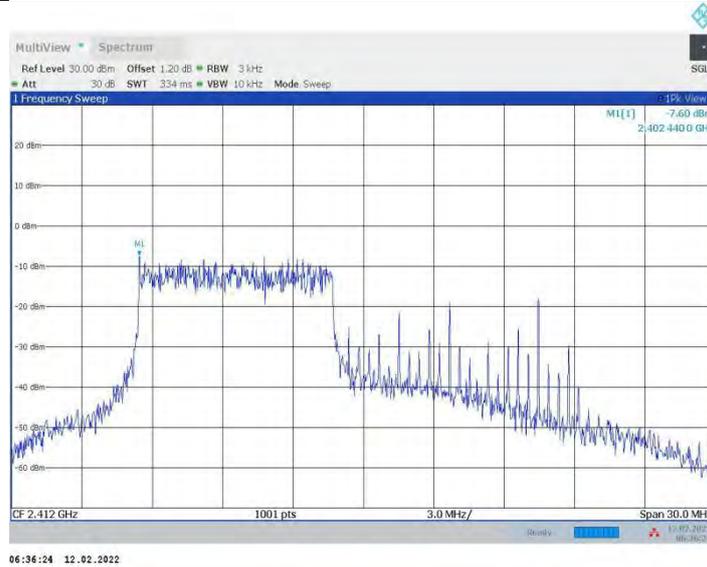
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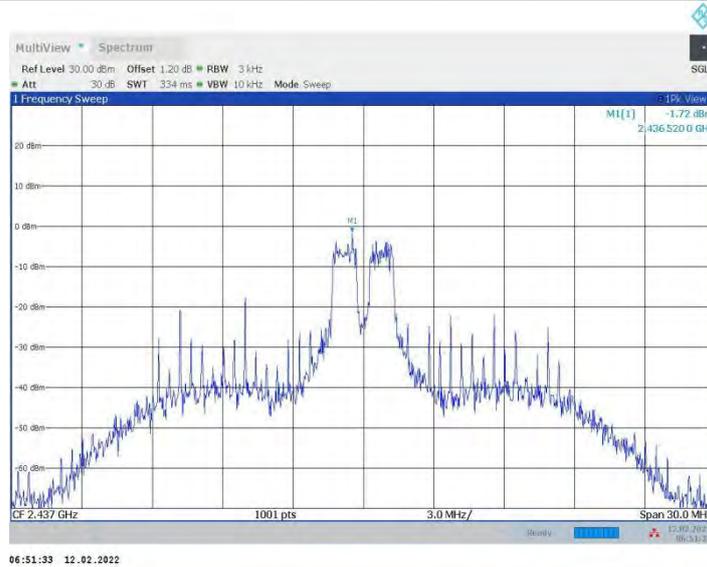
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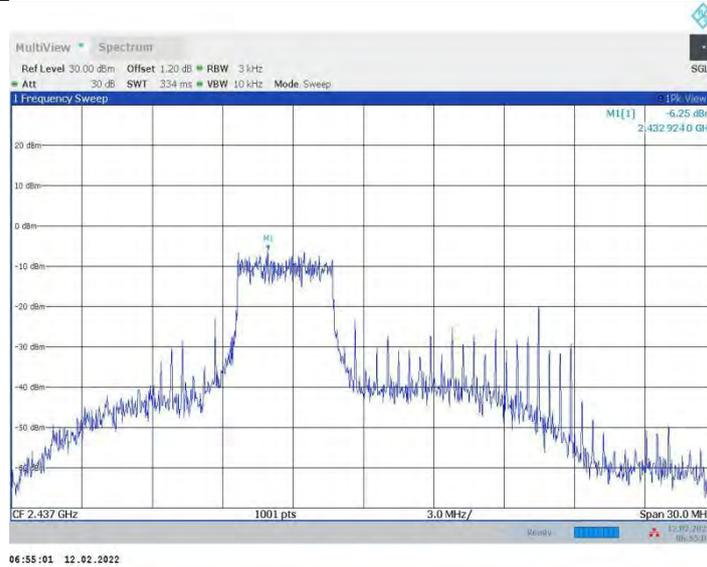
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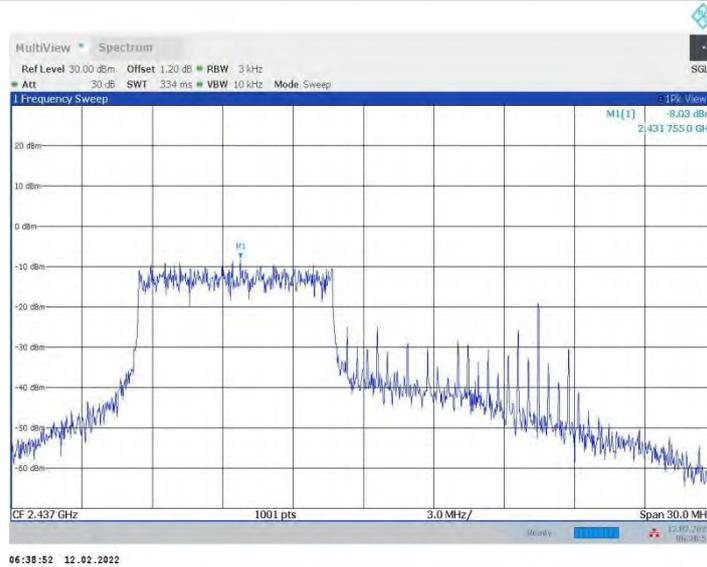


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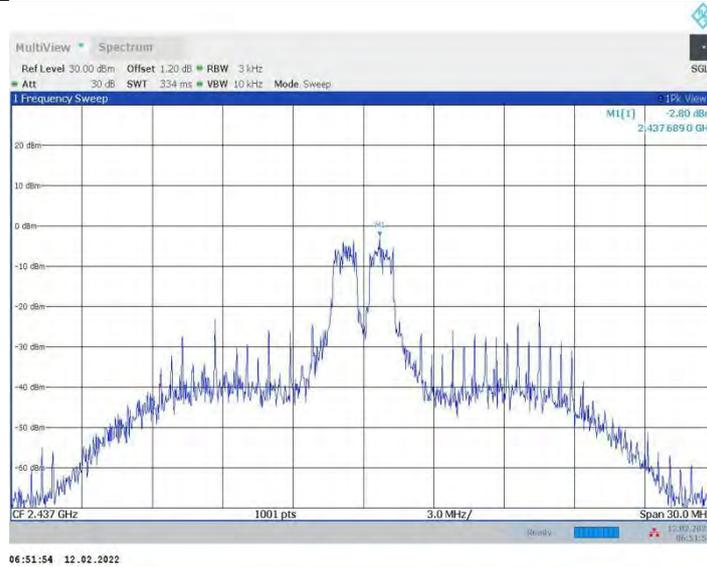
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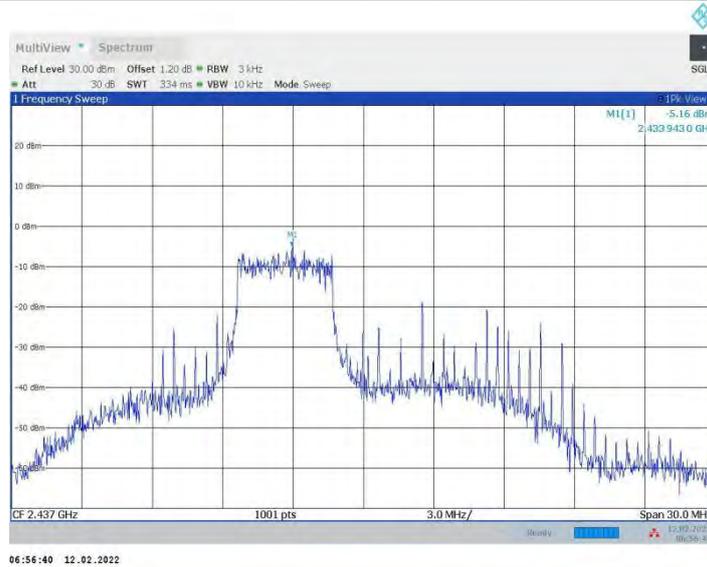


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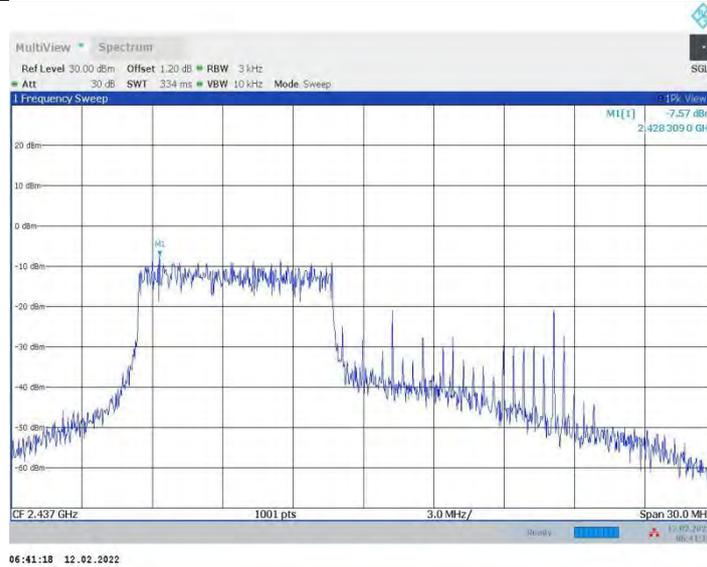
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11AX20MIMO\_Ant18\_2437\_106Tone\_RU53



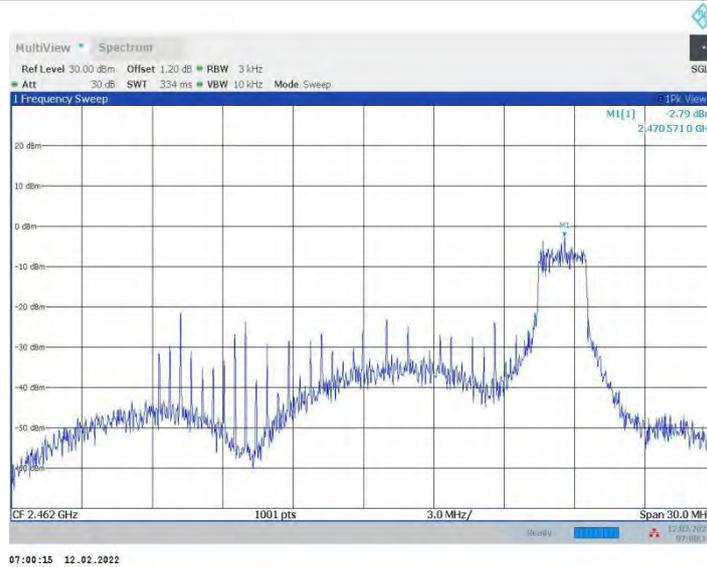
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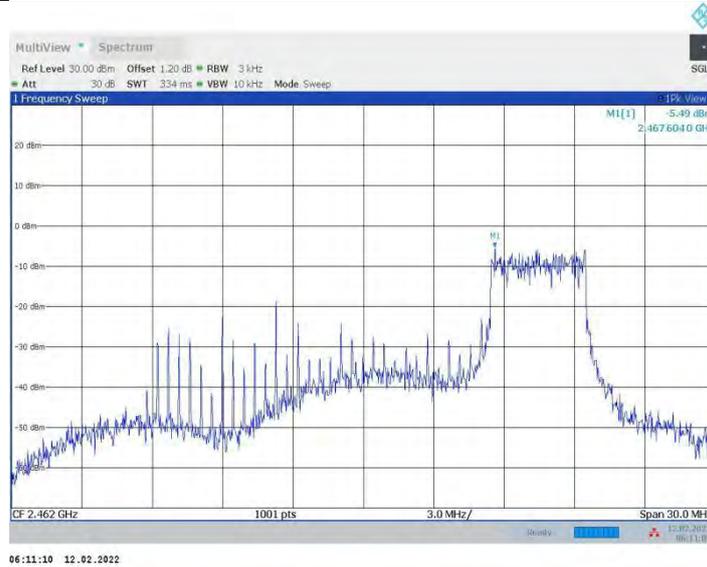
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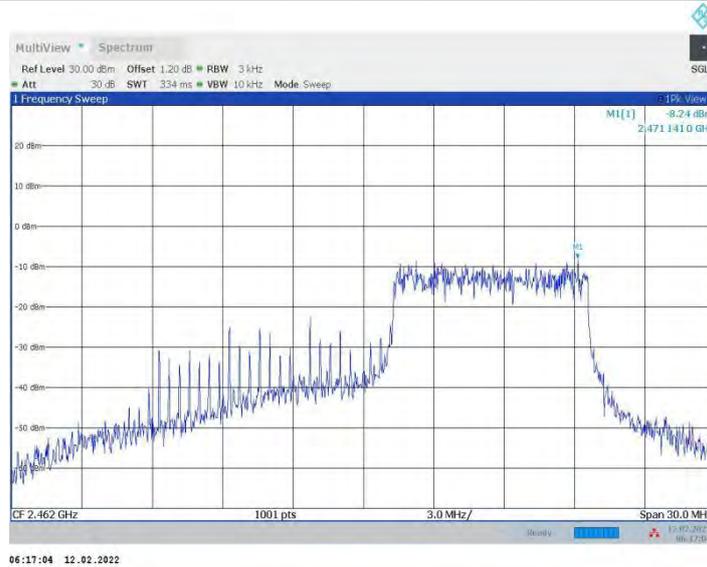


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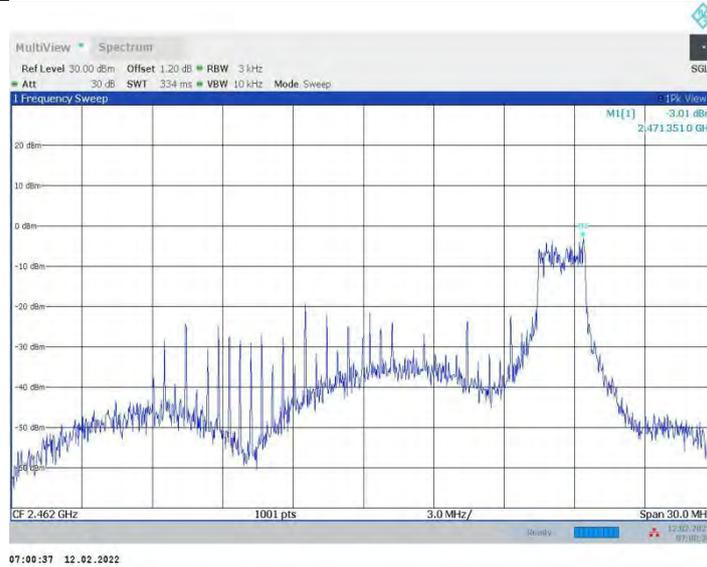
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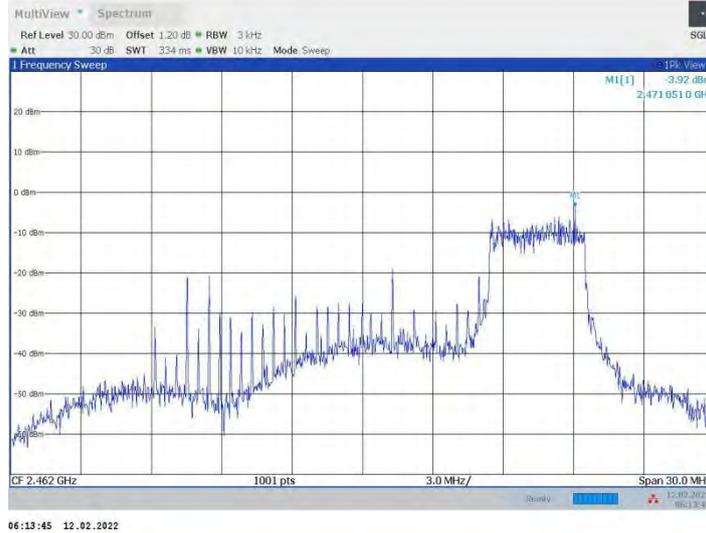


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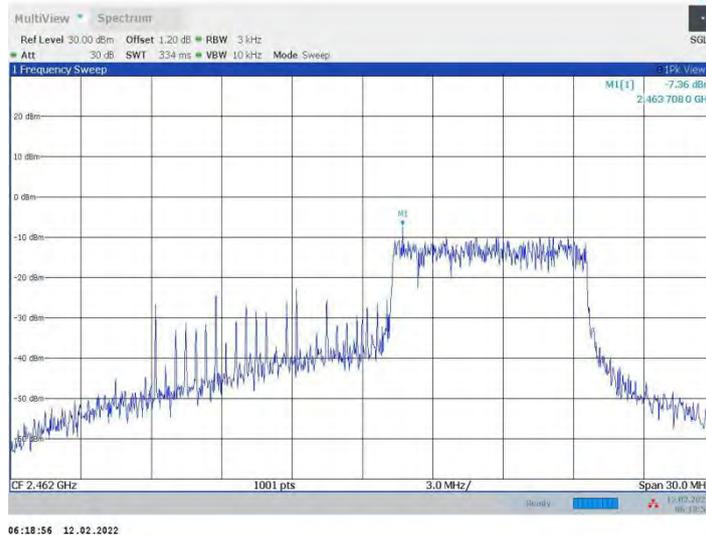
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