

Report No.: SUAR/2021/B000705

Rev.: 01

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TEST REPORT

Application No.: AR/2021/B0007
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.: 21121210G
Trade Mark: POCO
FCC ID: 2AFZZ1210G
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2021/12/8
Date of Test: 2021/12/30 to 2022/1/24
Date of Issue: 2022/1/25

Test Result :	PASS *
----------------------	---------------

* 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		2022/1/25		Original

Prepared By	Weller Liu (Weller Liu) / Engineer
Checked By	Well Wei (Well Wei) / Reviewer



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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.
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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



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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:0031225543



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3.4 General Description of EUT

EUT Description:	Mobile Phone		
Model No.:	21121210G		
Trade Mark:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 13		
IEEE 802.11 WLAN Mode Supported	☒ 802.11b (20 MHz channel bandwidth), ☒ 802.11g (20 MHz channel bandwidth), ☒ 802.11n/ax (20 MHz channel bandwidth), ☒ 802.11n/ax (40 MHz channel bandwidth)		
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: -fc = "Operating Frequency" in MHz, -N = "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(VHE20) : OFDM/OFDMA IEEE for 802.11n(HT40) /ax(VHE40) : OFDM/OFDMA		
Sample Type:	☒ Portable Device, ☐ Module		
Antenna Type:	IFA Antenna		
Antenna Ports	☒ Ant 1, ☒ Ant 2, ☒ Ant 3		
Smart System	☒ SISO (for 802.11b/g/n/ax), ☒ MIMO (for 802.11 b/g/n/ax): 2 Tx & 2 Rx, ☐ Diversity (for 802.11b/g) : Tx & Rx		
Antenna Gain*:	☒ Provided by applicant 0.57dBi(Ant16); -2.07dBi(Ant17); -4.63dBi(Ant18);		
RF Cable*:	☒ Provided by applicant		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
Remark:	*Since the above data and/or information is provided by the applicant 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.		



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Operation Frequency of each channel (802.11b/g/n HT20 /ax VHE20)							
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 VHE40)							
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 (VHE20)			Frequency for 802.11n (HT40)/ ax(VHE40)		
The Lowest channel		2412MHz			2422MHz		
The Middle channel		2437MHz			2437MHz		
The Highest channel		2462MHz			2452MHz		



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3.5 Test Environment and Mode

Environment Parameter	101.0 KPa Selected Values During Tests	
Relative Humidity	44~46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	7.74
LTNV	0	7.74
HTNV	40	7.74
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

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna is integrated and no consideration of replacement. The best case gain of the ANT16 is 0.57dBi and ANT17 is -2.07dBi and ANT18 is -4.63dBi.	



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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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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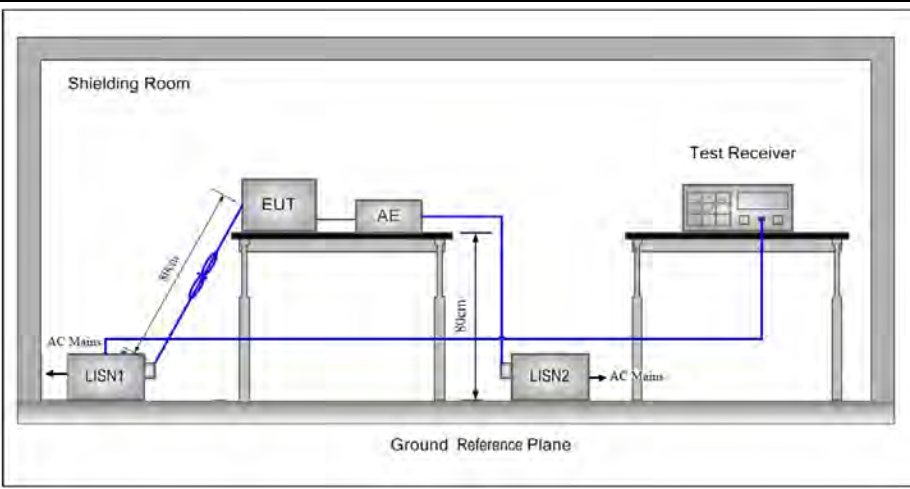
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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the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



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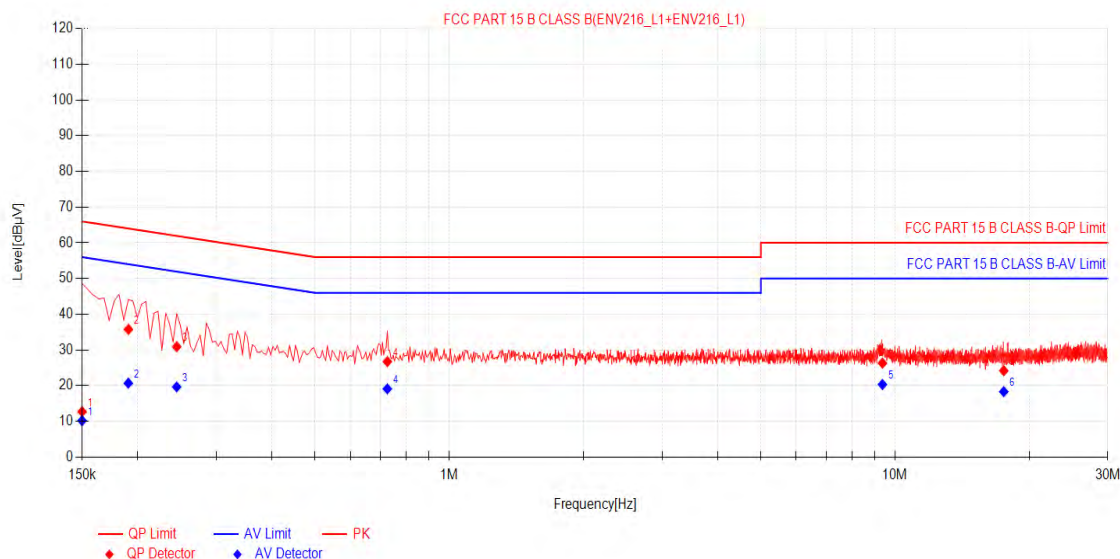
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Measurement Data

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.

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	0.1500	10.63	12.72	66.00	53.28	10.20	56.00	45.80	PASS
2	0.1905	10.78	35.77	64.01	28.24	20.71	54.01	33.30	PASS
3	0.2445	10.80	30.92	61.94	31.02	19.66	51.94	32.28	PASS
4	0.7260	10.56	26.75	56.00	29.25	19.10	46.00	26.90	PASS
5	9.3705	10.65	26.32	60.00	33.68	20.34	50.00	29.66	PASS
6	17.5380	10.48	24.19	60.00	35.81	18.33	50.00	31.67	PASS

Remark:

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



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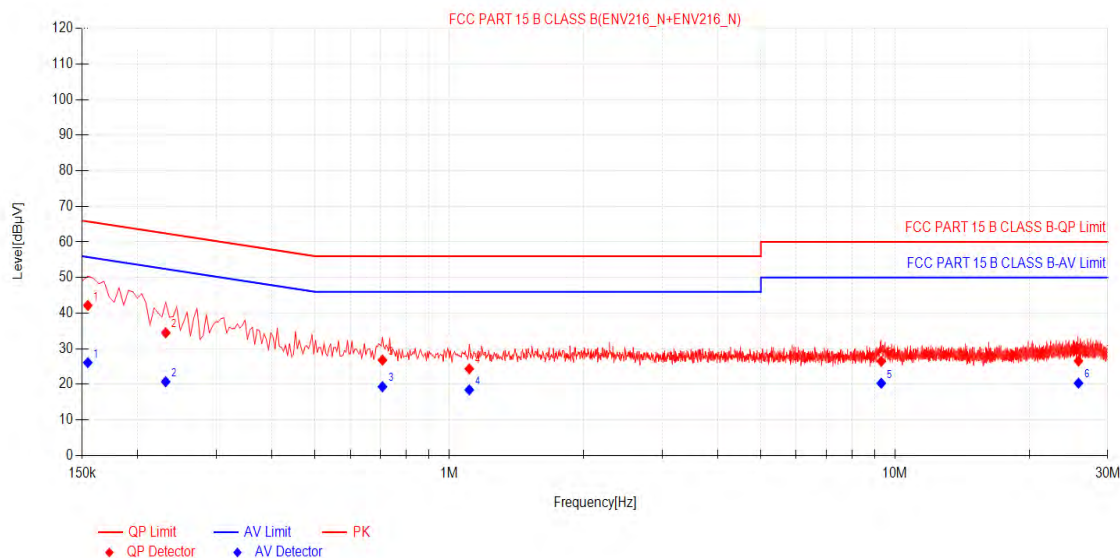
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Neutral Line:



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	0.1545	10.72	42.18	65.75	23.57	26.10	55.75	29.65	PASS
2	0.2310	10.70	34.47	62.41	27.94	20.74	52.41	31.67	PASS
3	0.7080	10.81	26.81	56.00	29.19	19.32	46.00	26.68	PASS
4	1.1085	10.71	24.34	56.00	31.66	18.44	46.00	27.56	PASS
5	9.3120	10.64	26.47	60.00	33.53	20.30	50.00	29.70	PASS
6	25.8000	10.52	26.55	60.00	33.45	20.33	50.00	29.67	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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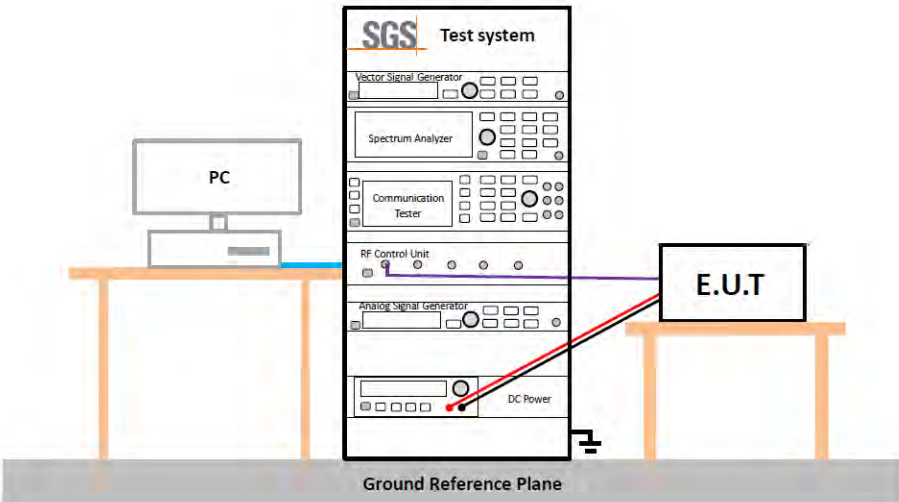
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4.4 Conducted Output Power

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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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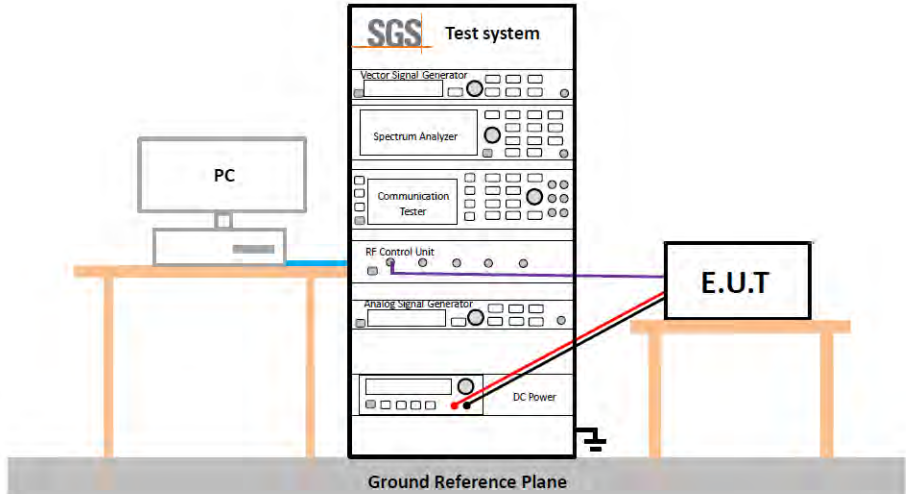
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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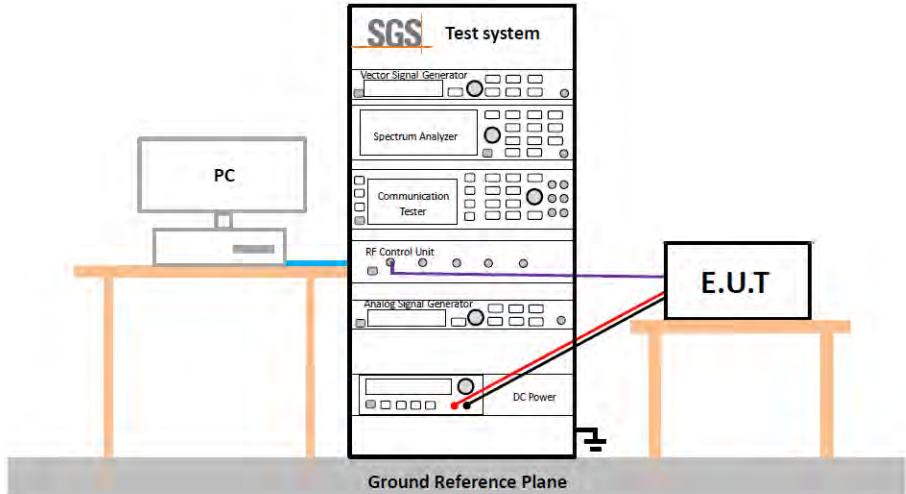
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4.6 Power Spectral Density

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:	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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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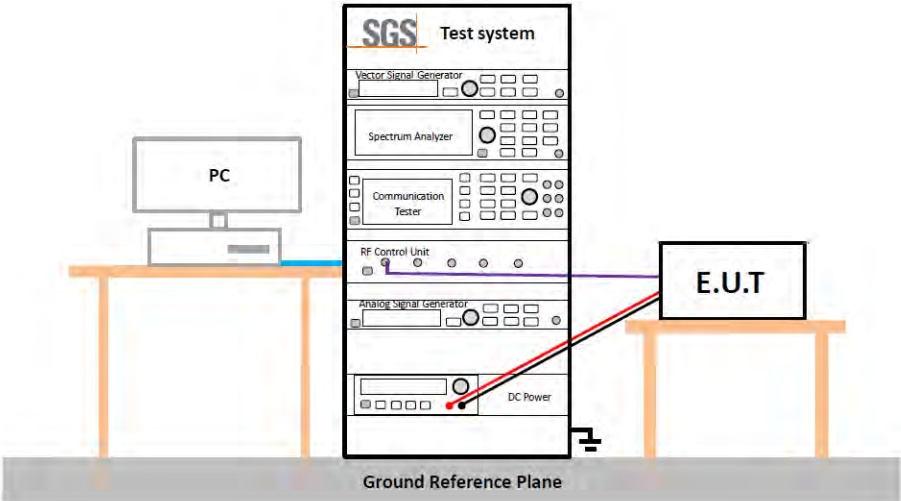
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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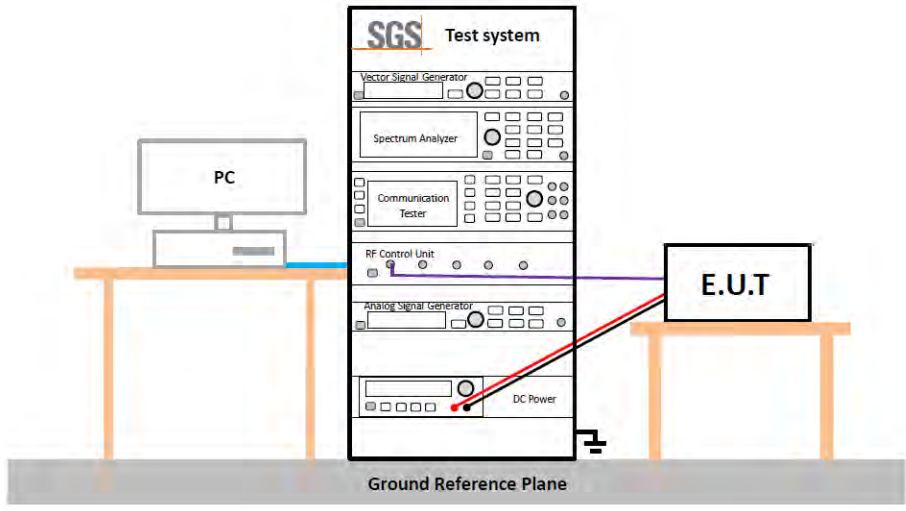
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
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	10Hz (DC≥0.98) ≥1/T (DC<0.98)	Average
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:

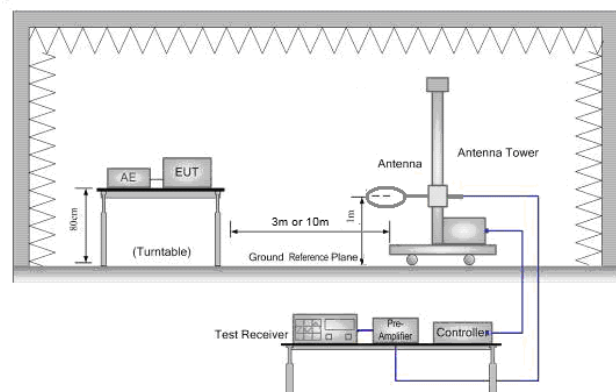


Figure 1. Below 30MHz

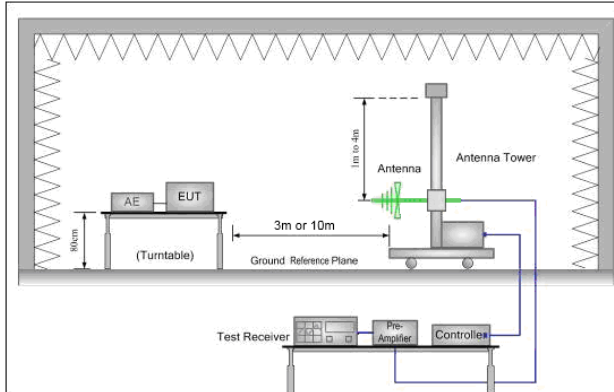


Figure 2. 30MHz to 1GHz

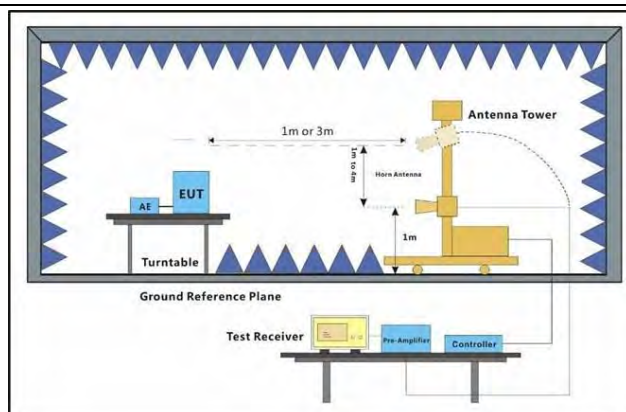


Figure 3. Above 1 GHz

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



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	specified, then testing could be stopped and the peak values of the EUT 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. h. Test the EUT in the lowest channel, the middle channel ,the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq [3 * RBW]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (RBW / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40). 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.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

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

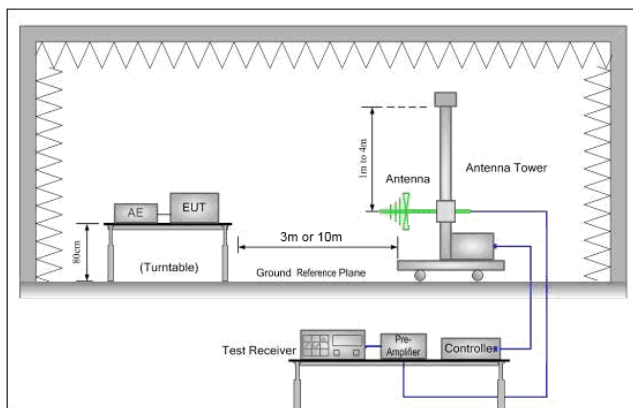


Figure 1. 30MHz to 1GHz

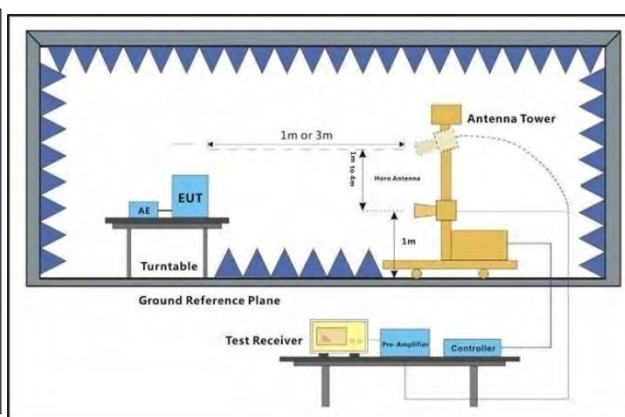


Figure 2. Above 1 GHz



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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 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. - 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 - Test the EUT in the lowest channel , the Highest channel - 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. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.



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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(VHE20); 13.5Mbps of rate is the worst case of 802.11n(HT40) /ax(VHE40). 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: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 7.25 \times 10^{-8}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 7.25 \times 10^{-8}$
7	Conduction Emission	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (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
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
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR

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
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
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
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19



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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
Signal Analyzer	ROHDE&SCHW ARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHW ARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
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
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
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

ANT16+ANT17

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant16	2412	7.56	2408.44	2416.00	0.5	PASS
	Ant17	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant16	2437	8.04	2432.96	2441.00	0.5	PASS
	Ant17	2437	8.00	2433.00	2441.00	0.5	PASS
	Ant16	2462	8.00	2457.96	2465.96	0.5	PASS
	Ant17	2462	7.76	2457.96	2465.72	0.5	PASS
11G-CDD	Ant16	2412	16.08	2404.08	2420.16	0.5	PASS
	Ant17	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant16	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant17	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant16	2462	15.92	2453.84	2469.76	0.5	PASS
	Ant17	2462	16.36	2453.80	2470.16	0.5	PASS
11N20MIMO	Ant16	2412	17.16	2403.60	2420.76	0.5	PASS
	Ant17	2412	17.28	2403.48	2420.76	0.5	PASS
	Ant16	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant17	2437	17.56	2428.20	2445.76	0.5	PASS
	Ant16	2462	17.32	2453.20	2470.52	0.5	PASS
	Ant17	2462	17.56	2453.20	2470.76	0.5	PASS
11N40MIMO	Ant16	2422	34.96	2404.48	2439.44	0.5	PASS
	Ant17	2422	35.36	2404.40	2439.76	0.5	PASS
	Ant16	2437	36.32	2418.84	2455.16	0.5	PASS
	Ant17	2437	35.92	2418.84	2454.76	0.5	PASS
	Ant16	2452	35.04	2434.48	2469.52	0.5	PASS
	Ant17	2452	35.44	2434.08	2469.52	0.5	PASS
11AX20MIMO	Ant16	2412	18.68	2402.76	2421.44	0.5	PASS
	Ant17	2412	18.76	2402.64	2421.40	0.5	PASS
	Ant16	2437	18.96	2427.48	2446.44	0.5	PASS
	Ant17	2437	18.92	2427.52	2446.44	0.5	PASS
	Ant16	2462	17.04	2452.52	2469.56	0.5	PASS
	Ant17	2462	18.88	2452.52	2471.40	0.5	PASS
11AX40MIMO	Ant16	2422	37.36	2403.20	2440.56	0.5	PASS
	Ant17	2422	37.68	2403.12	2440.80	0.5	PASS
	Ant16	2437	38.16	2417.88	2456.04	0.5	PASS
	Ant17	2437	37.76	2418.04	2455.80	0.5	PASS
	Ant16	2452	36.80	2433.04	2469.84	0.5	PASS
	Ant17	2452	36.40	2433.20	2469.60	0.5	PASS



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ANT16+ANT18

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant16	2412	7.80	2407.96	2415.76	0.5	PASS
	Ant18	2412	7.60	2408.44	2416.04	0.5	PASS
	Ant16	2437	8.08	2432.92	2441.00	0.5	PASS
	Ant18	2437	8.08	2432.92	2441.00	0.5	PASS
	Ant16	2462	8.52	2457.48	2466.00	0.5	PASS
	Ant18	2462	7.76	2458.24	2466.00	0.5	PASS
11G-CDD	Ant16	2412	15.92	2404.20	2420.12	0.5	PASS
	Ant18	2412	16.32	2403.80	2420.12	0.5	PASS
	Ant16	2437	16.32	2428.80	2445.12	0.5	PASS
	Ant18	2437	16.32	2428.80	2445.12	0.5	PASS
	Ant16	2462	15.92	2453.80	2469.72	0.5	PASS
	Ant18	2462	16.32	2453.80	2470.12	0.5	PASS
11N20MIMO	Ant16	2412	17.16	2403.56	2420.72	0.5	PASS
	Ant18	2412	17.56	2403.20	2420.76	0.5	PASS
	Ant16	2437	17.60	2428.16	2445.76	0.5	PASS
	Ant18	2437	17.60	2428.16	2445.76	0.5	PASS
	Ant16	2462	16.32	2453.20	2469.52	0.5	PASS
	Ant18	2462	17.56	2453.16	2470.72	0.5	PASS
11N40MIMO	Ant16	2422	35.76	2404.08	2439.84	0.5	PASS
	Ant18	2422	36.08	2404.08	2440.16	0.5	PASS
	Ant16	2437	36.40	2418.76	2455.16	0.5	PASS
	Ant18	2437	35.36	2419.16	2454.52	0.5	PASS
	Ant16	2452	36.08	2433.76	2469.84	0.5	PASS
	Ant18	2452	36.24	2433.84	2470.08	0.5	PASS
11AX20MIMO	Ant16	2412	18.60	2402.80	2421.40	0.5	PASS
	Ant18	2412	18.60	2402.76	2421.36	0.5	PASS
	Ant16	2437	19.00	2427.44	2446.44	0.5	PASS
	Ant18	2437	18.84	2427.52	2446.36	0.5	PASS
	Ant16	2462	17.40	2452.48	2469.88	0.5	PASS
	Ant18	2462	18.80	2452.52	2471.32	0.5	PASS
11AX40MIMO	Ant16	2422	37.36	2403.20	2440.56	0.5	PASS
	Ant18	2422	37.20	2403.28	2440.48	0.5	PASS
	Ant16	2437	38.16	2417.88	2456.04	0.5	PASS
	Ant18	2437	38.08	2417.96	2456.04	0.5	PASS
	Ant16	2452	36.24	2433.36	2469.60	0.5	PASS
	Ant18	2452	36.64	2433.20	2469.84	0.5	PASS



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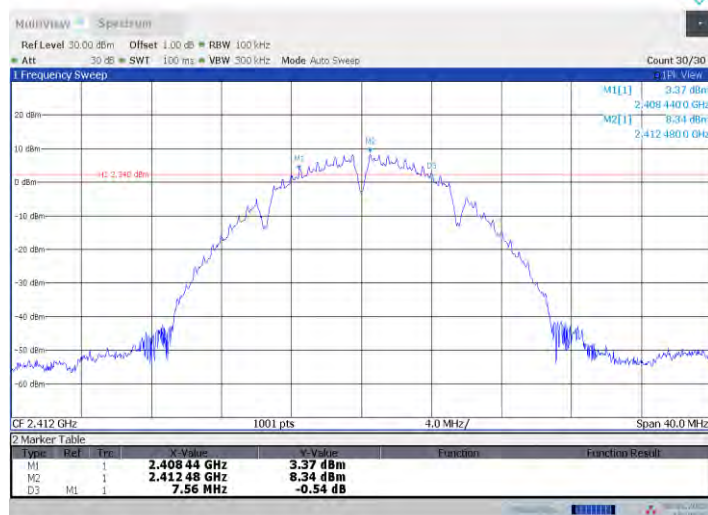
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Test Graphs

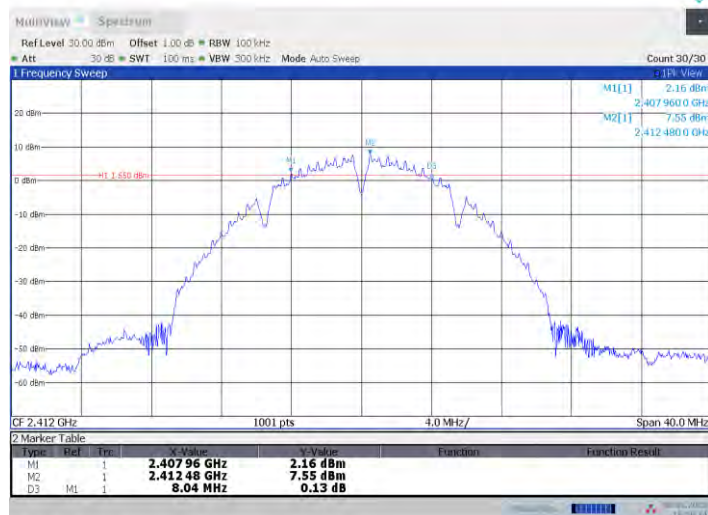
ANT16+ANT17

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10:28:28 05.01.2022

11B-CDD_Ant17_2412



10:56:24 05.01.2022



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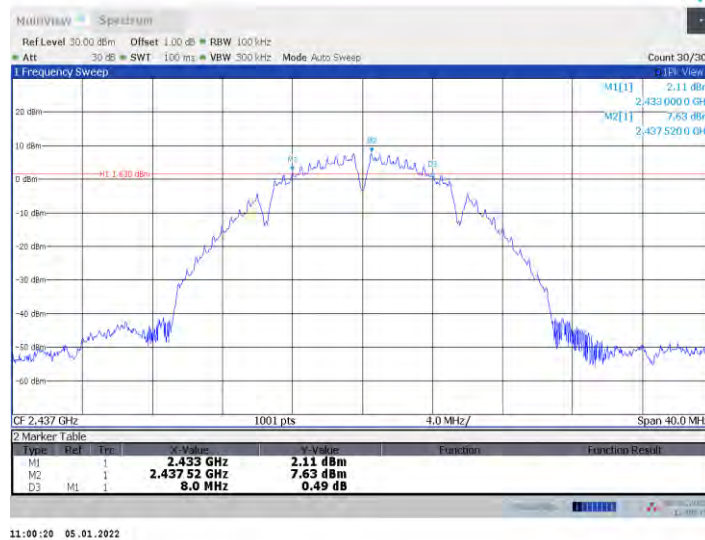
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10:32:32 05.01.2022

11B-CDD_Ant17_2437



11:00:20 05.01.2022



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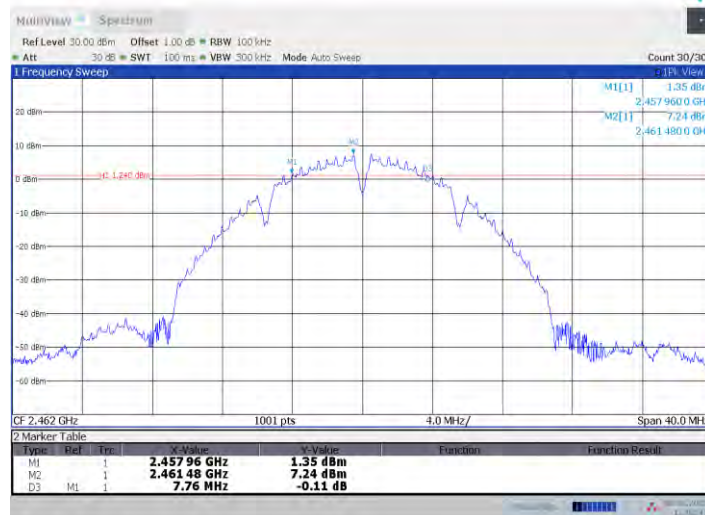
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10:36:23 05.01.2022

11B-CDD_Ant17_2462



11:02:42 05.01.2022



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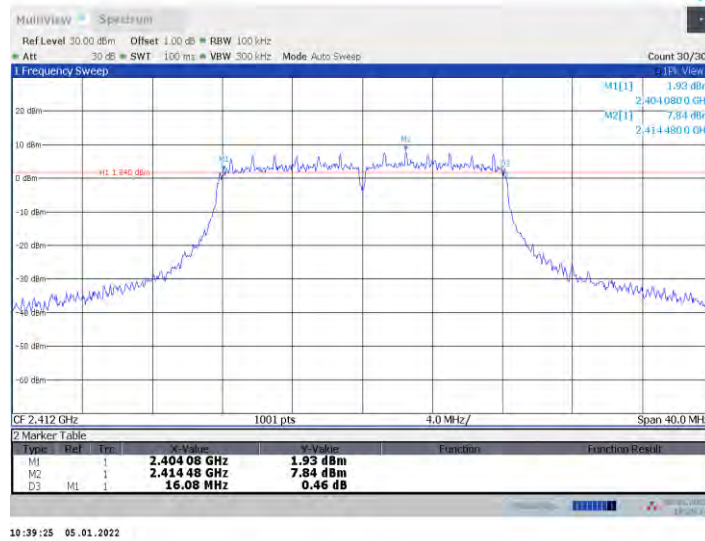
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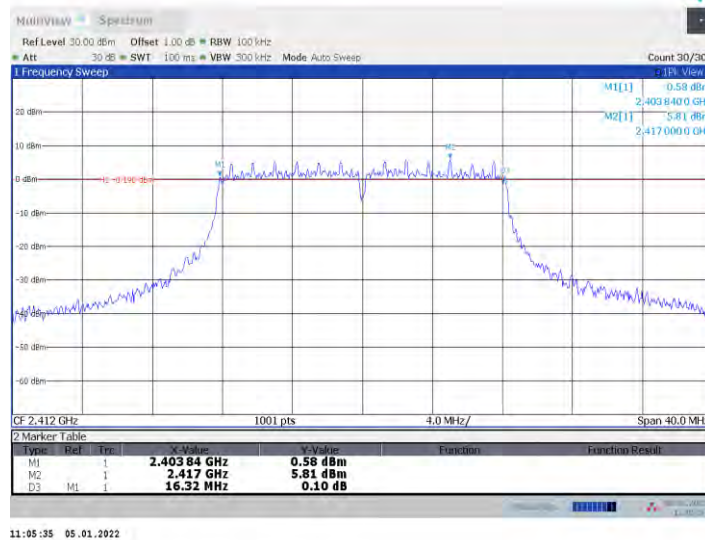
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11G-CDD_Ant16_2412



10:39:25 05.01.2022

11G-CDD_Ant17_2412



11:05:35 05.01.2022



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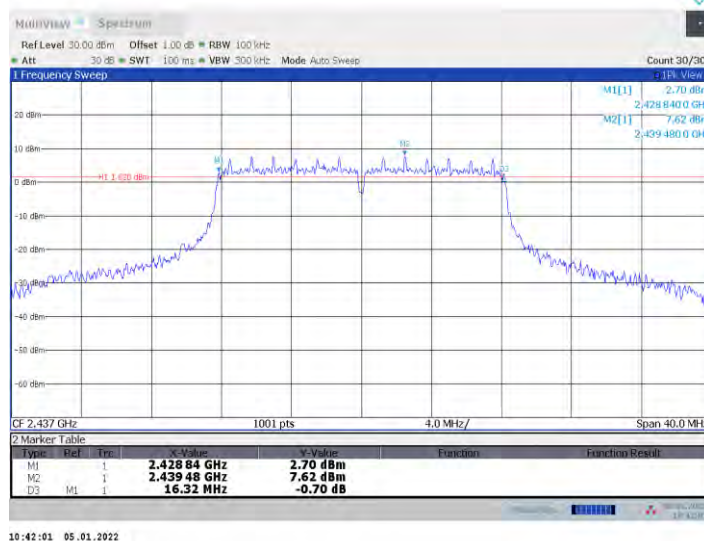
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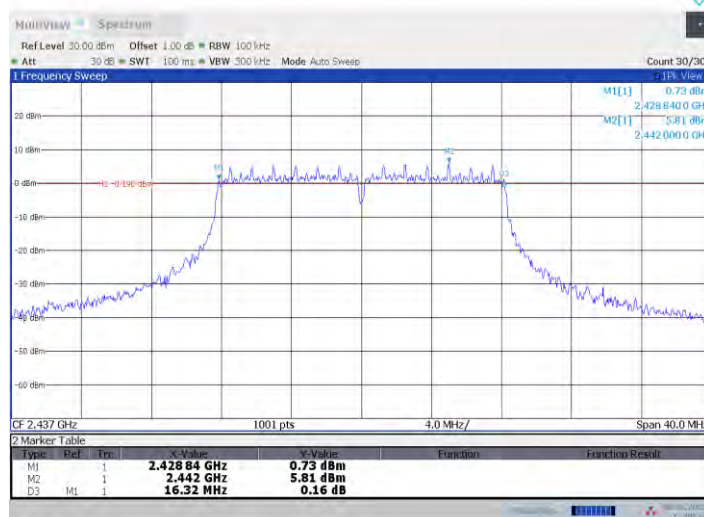
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11G-CDD_Ant16_2437



10:42:01 05.01.2022

11G-CDD_Ant17_2437



11:08:24 05.01.2022



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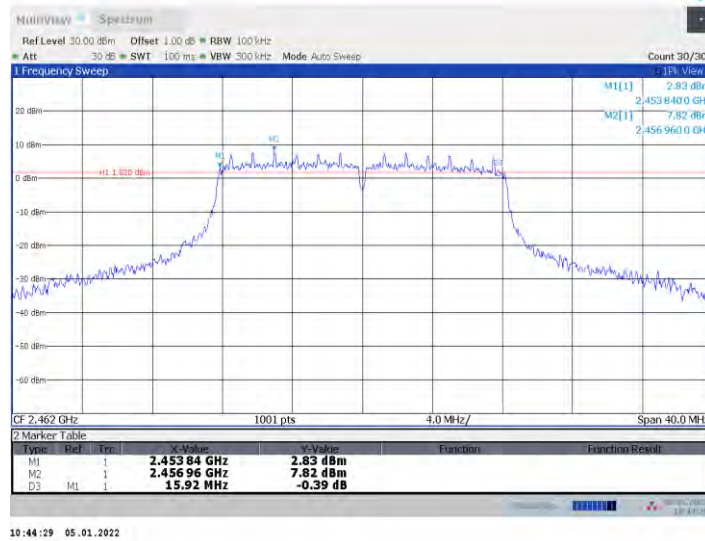
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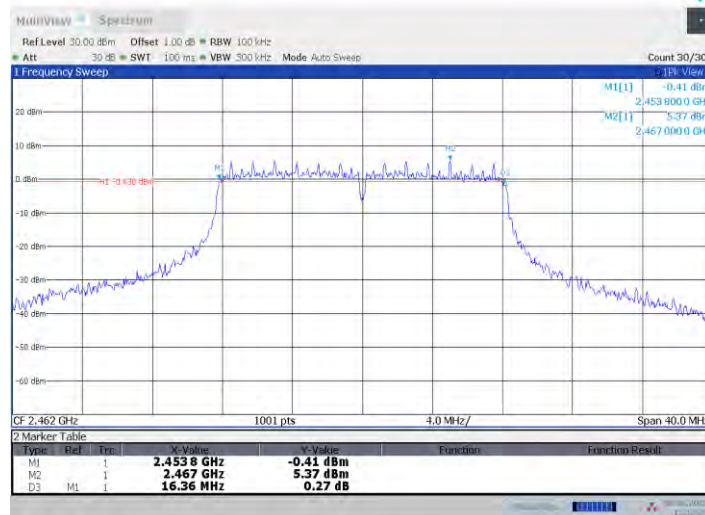
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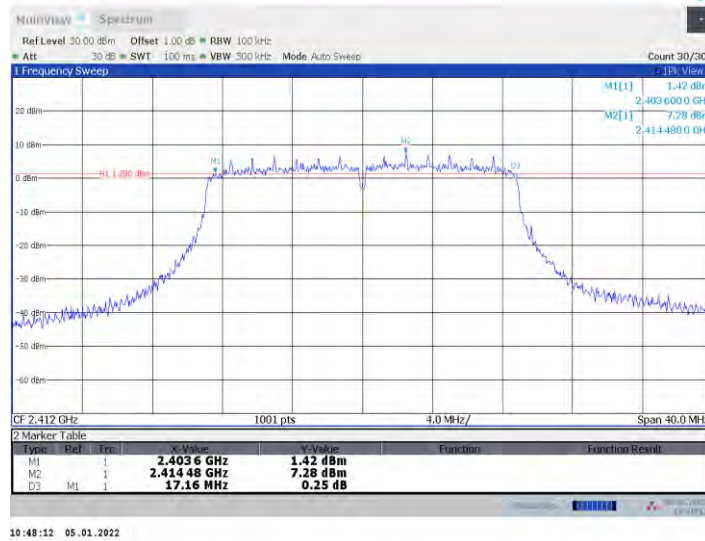
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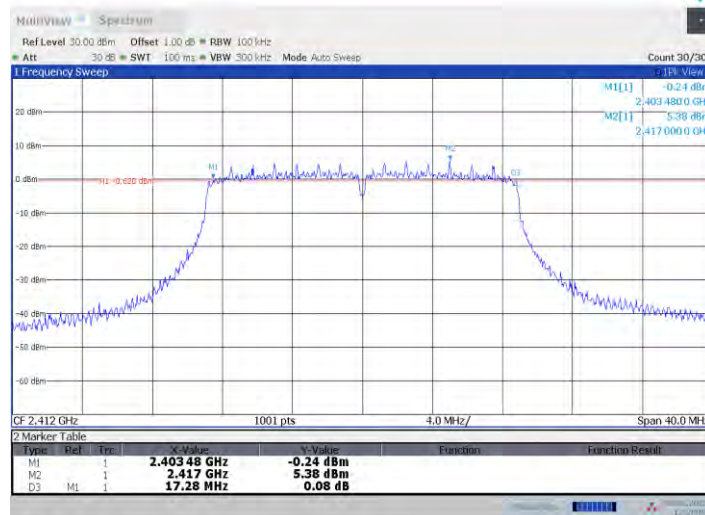
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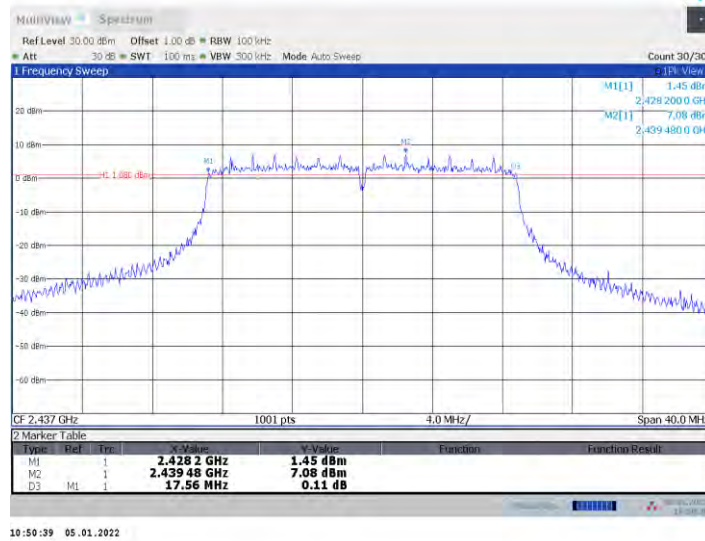
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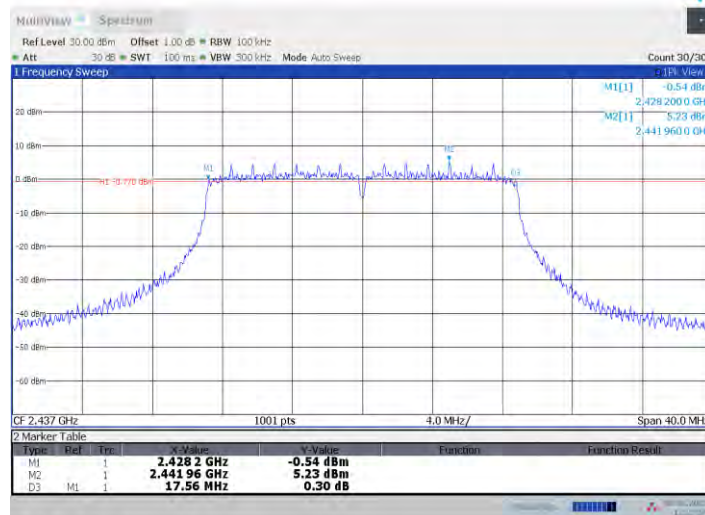
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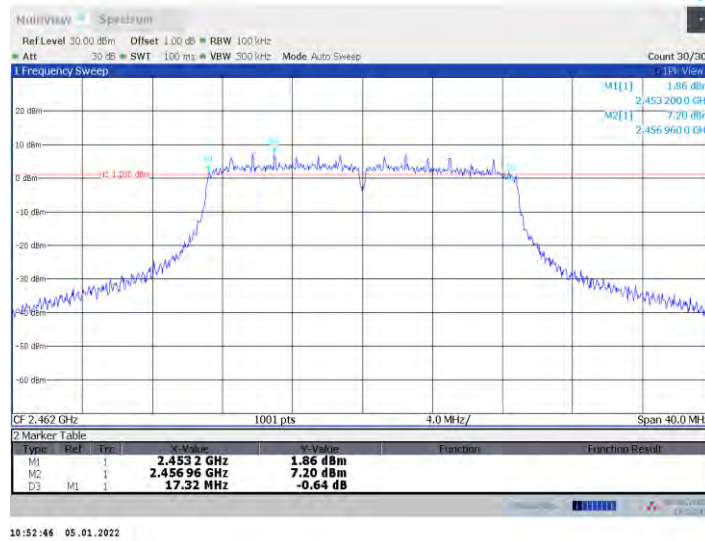
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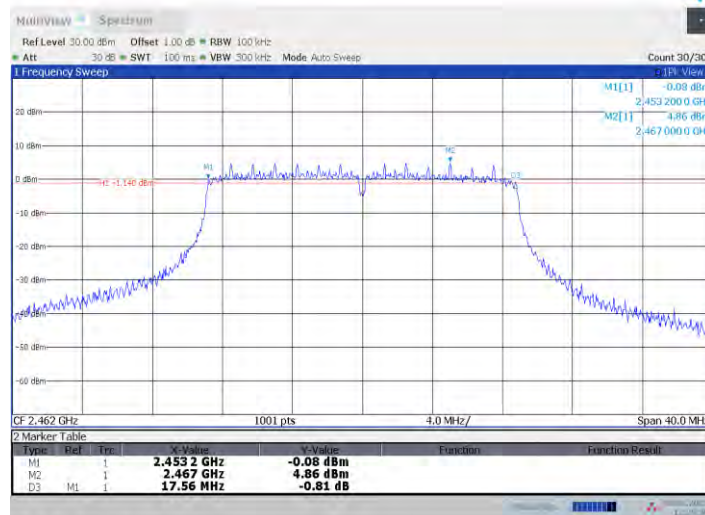
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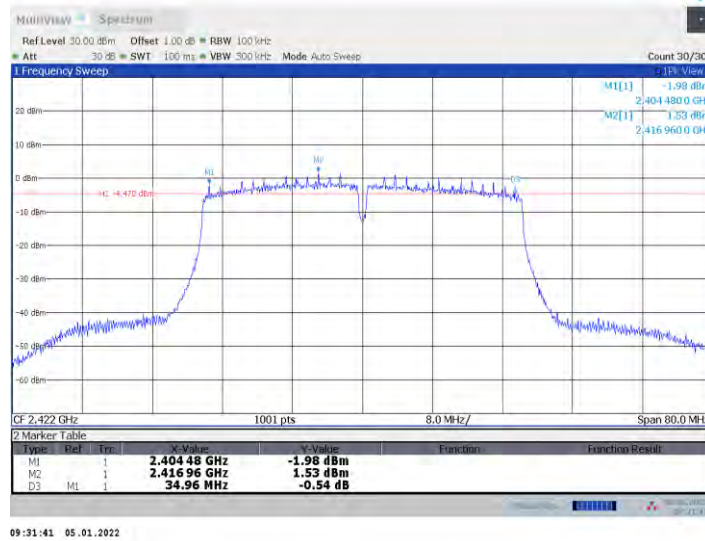
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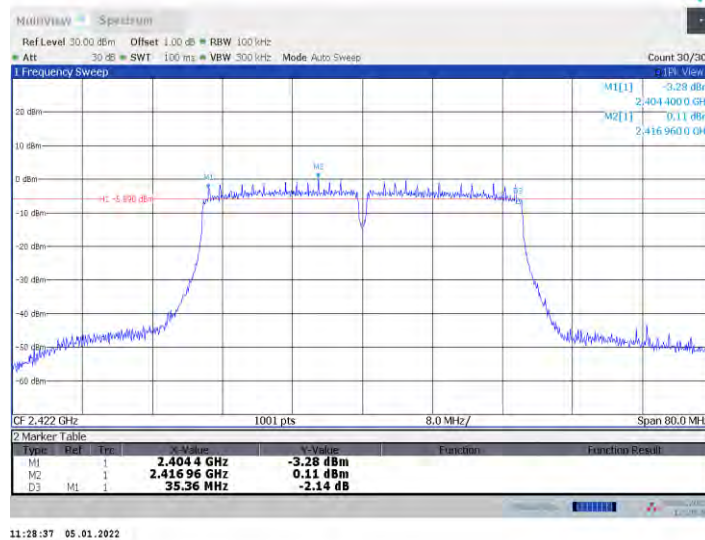
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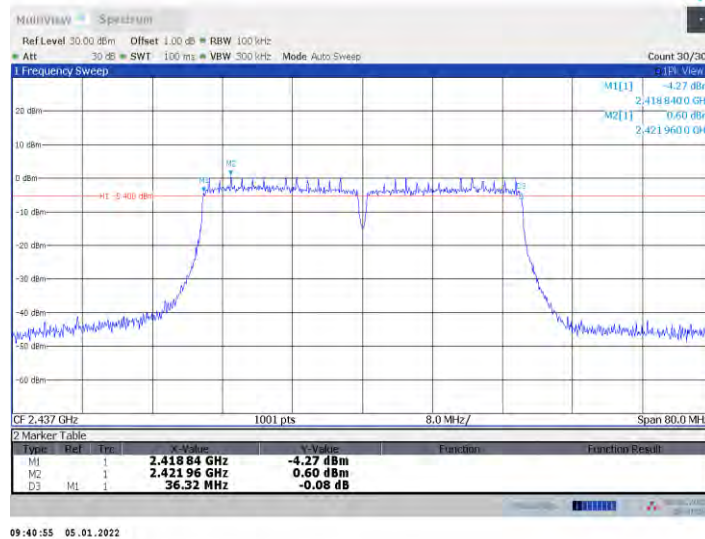
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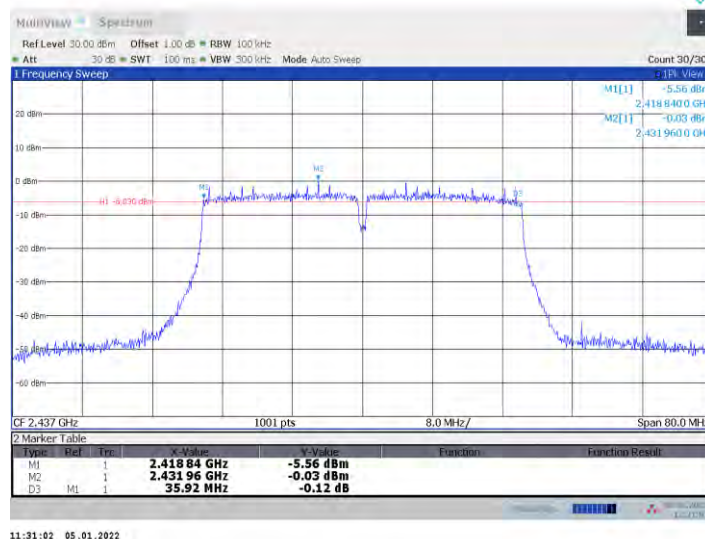
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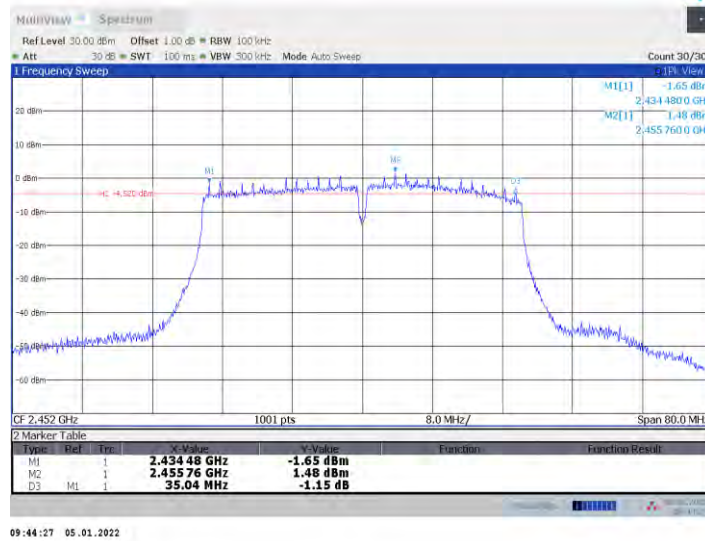
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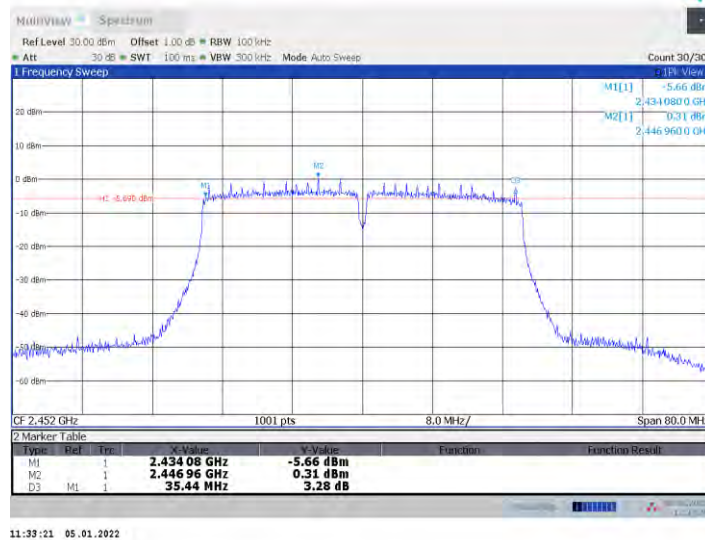
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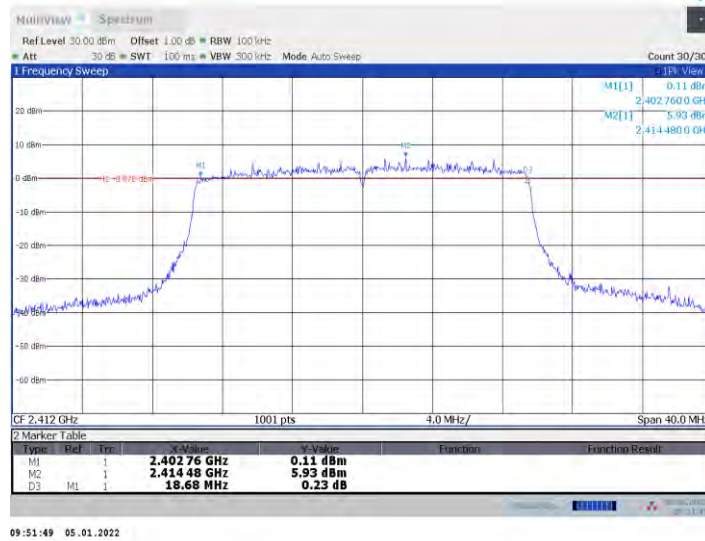
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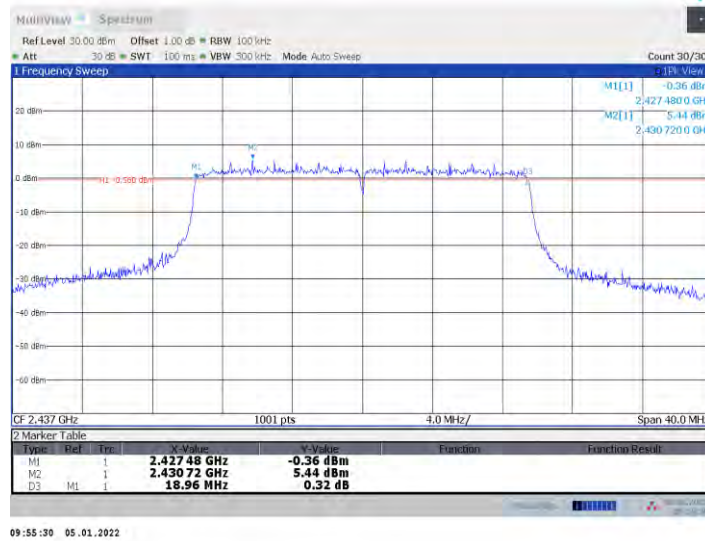
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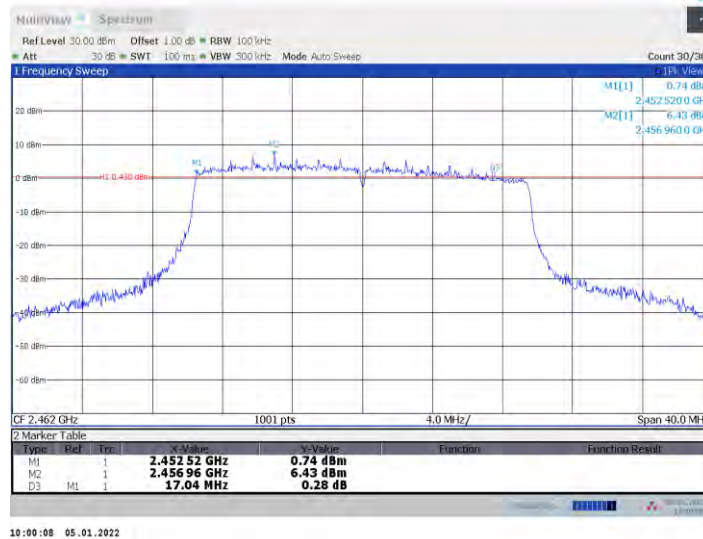
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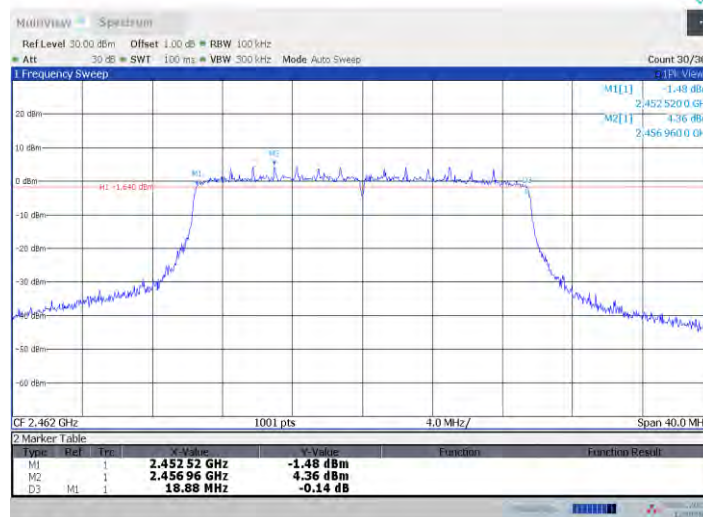
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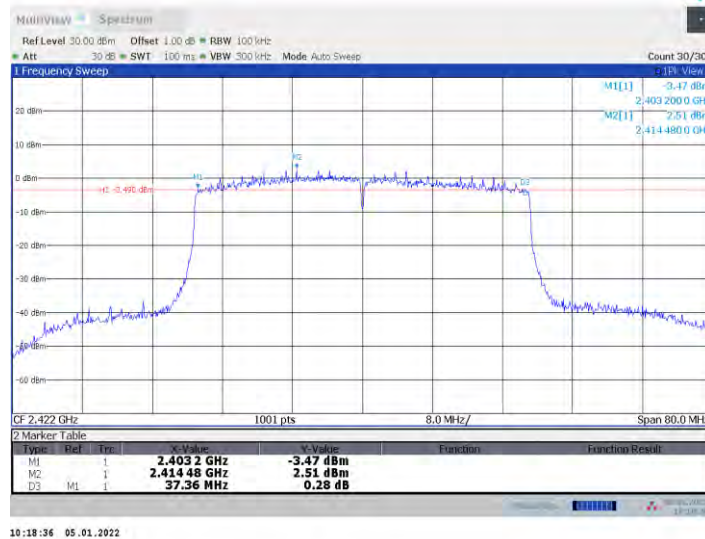
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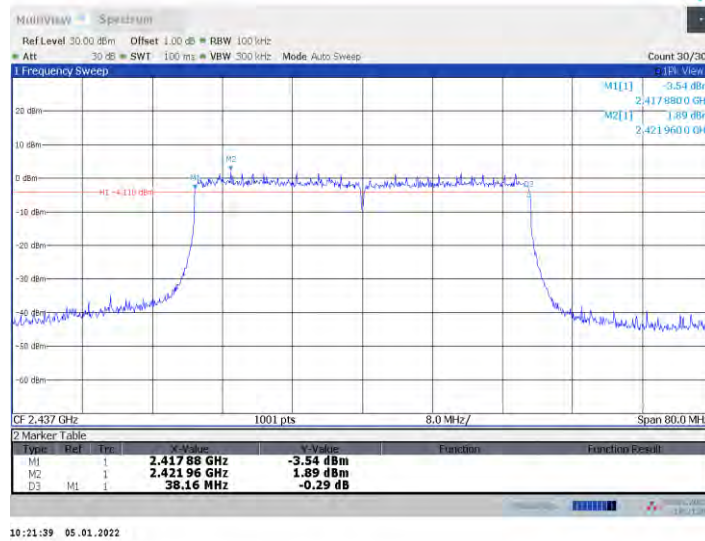
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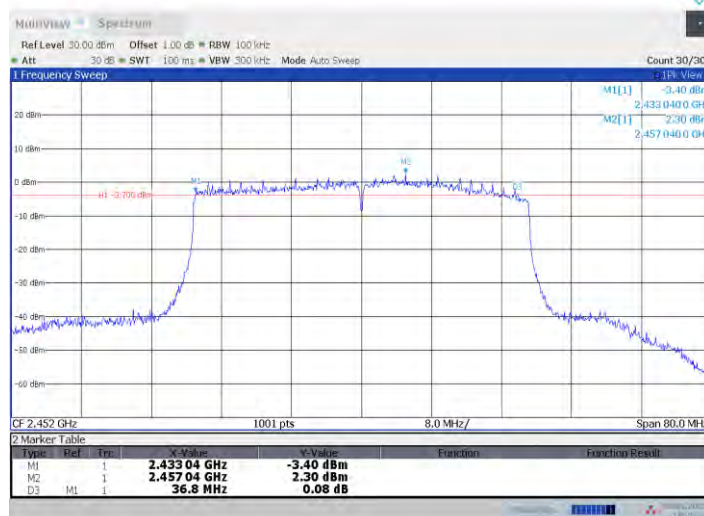
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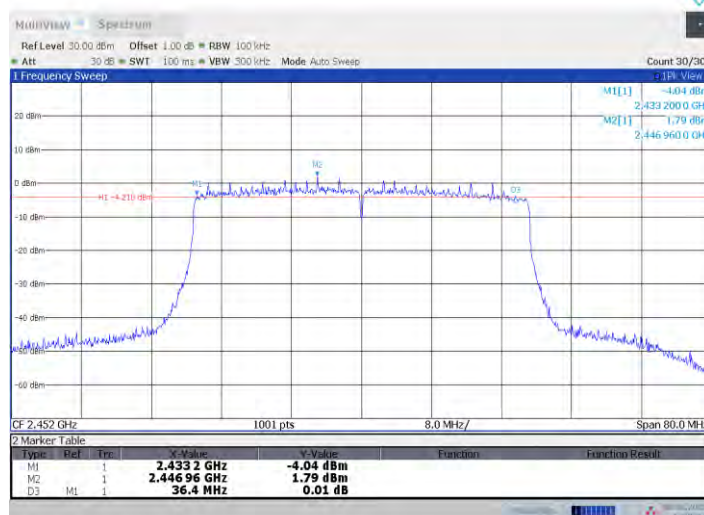
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10:25:28 05.01.2022

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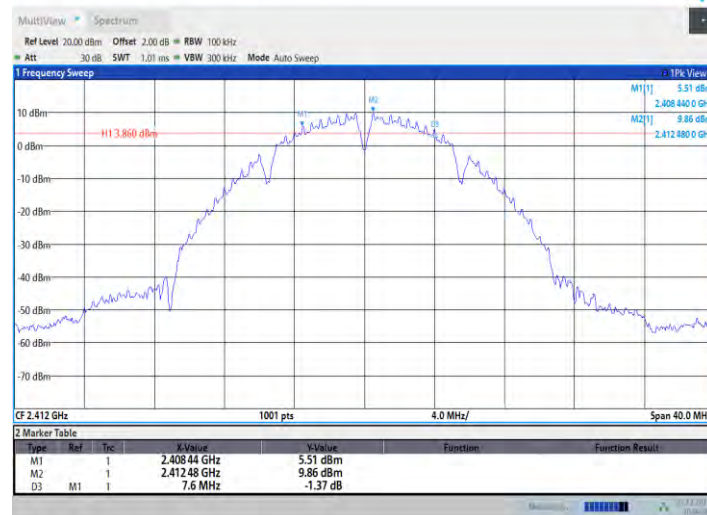
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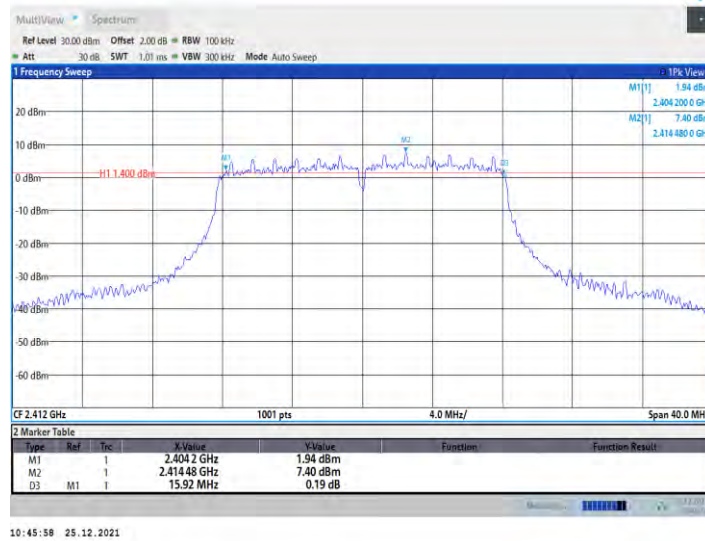
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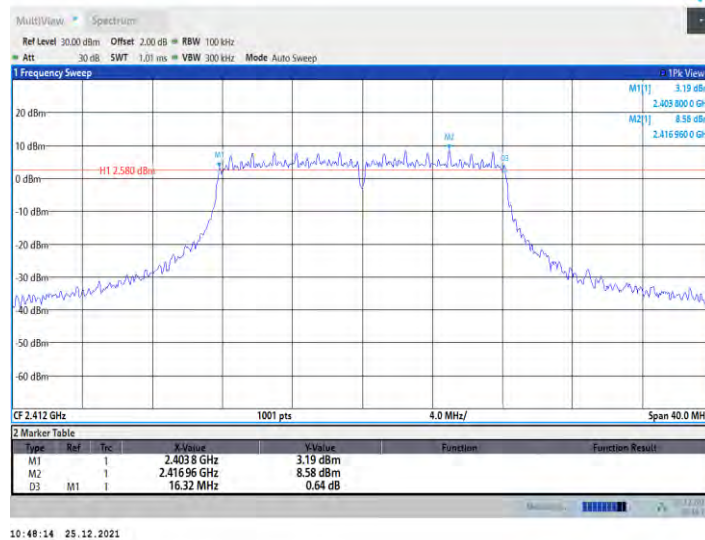
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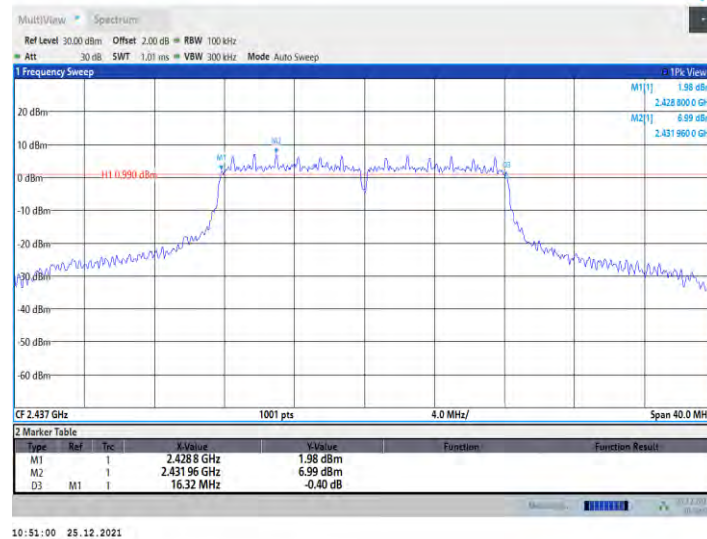
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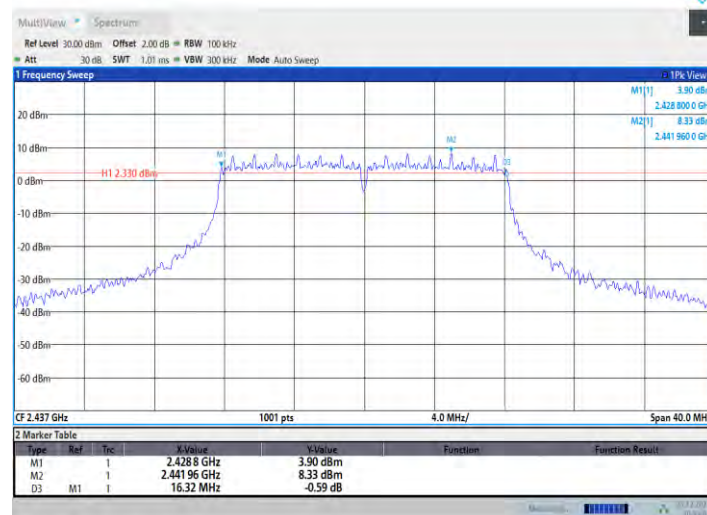
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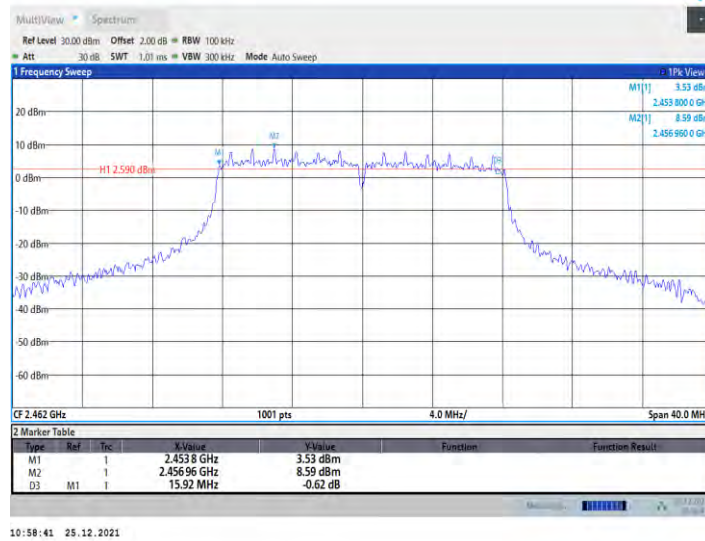
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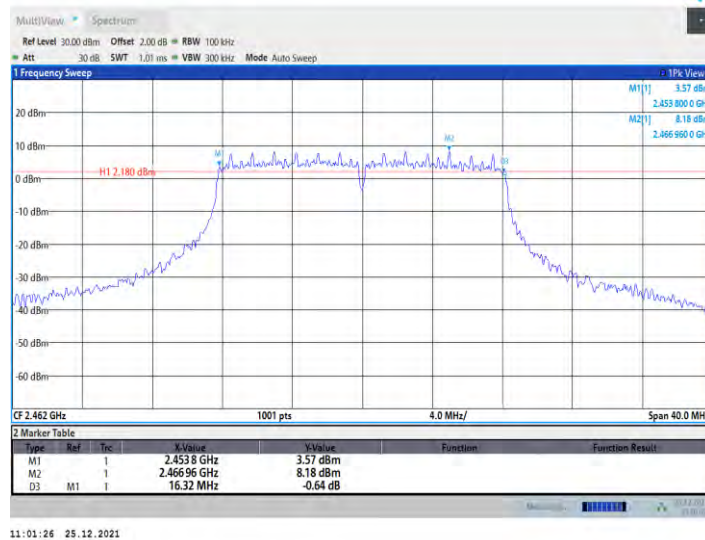
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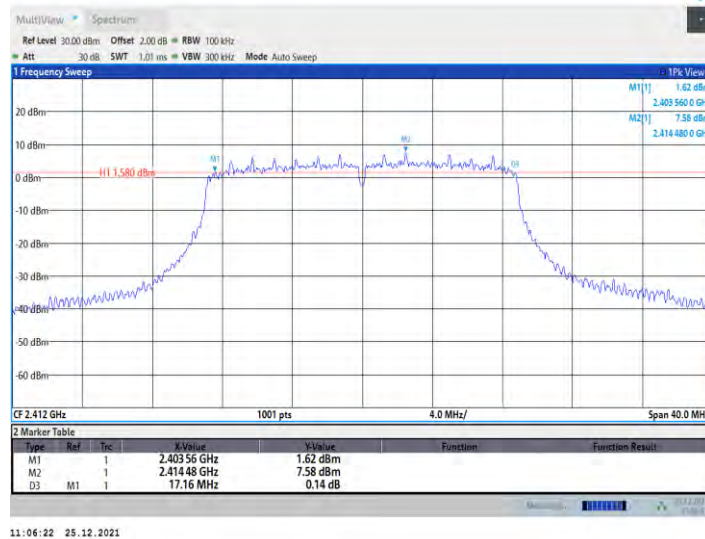
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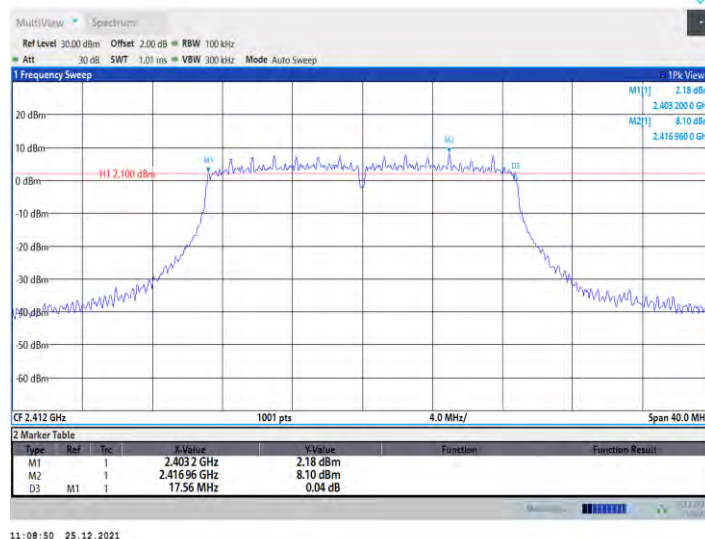
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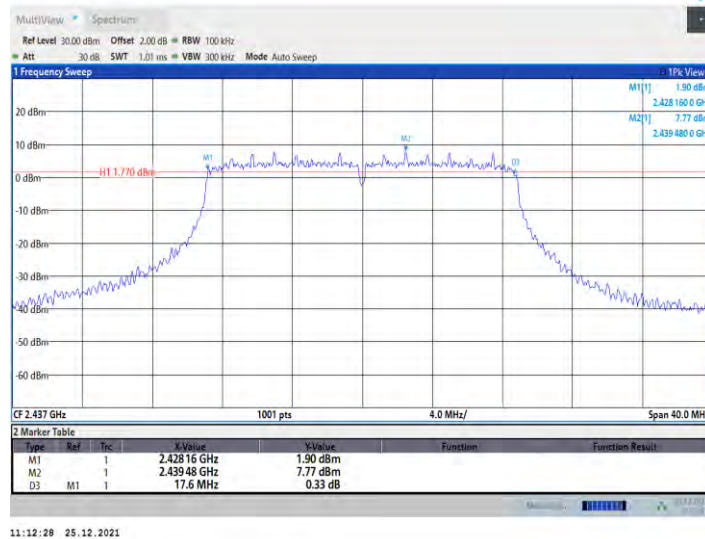
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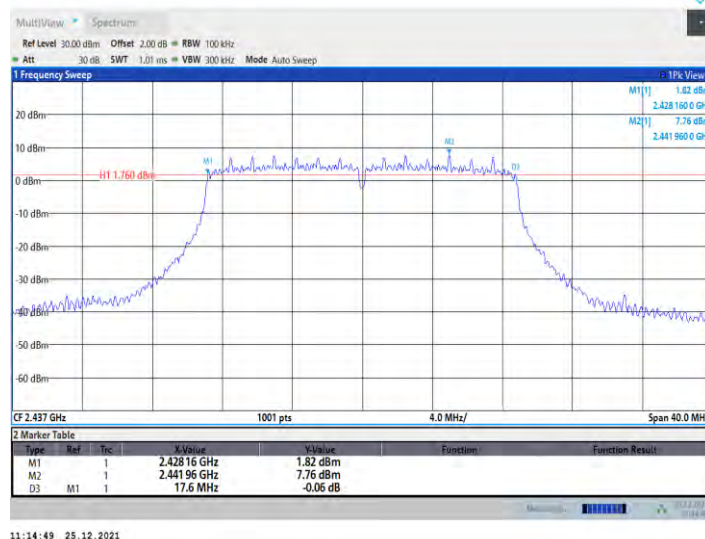
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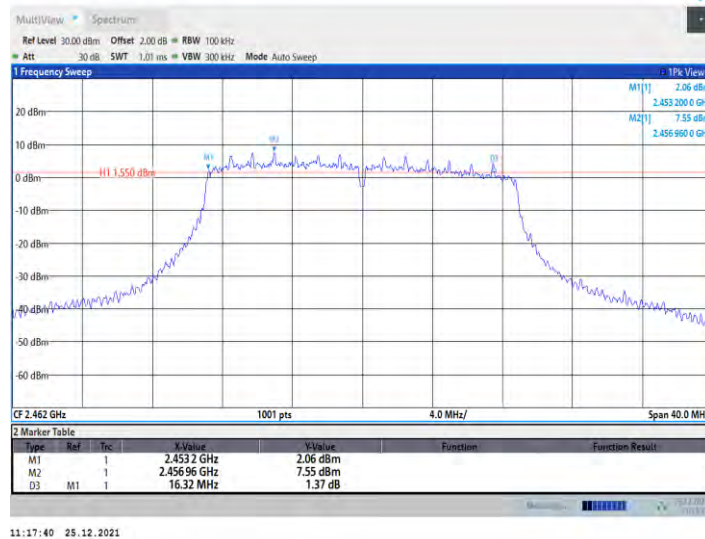
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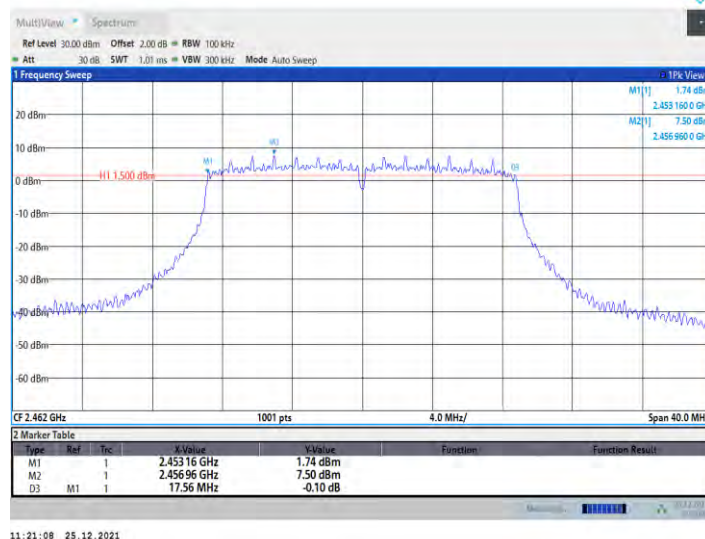
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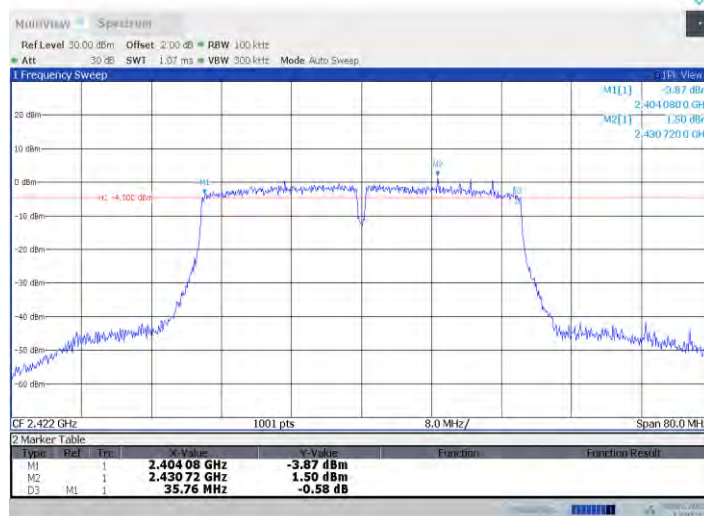
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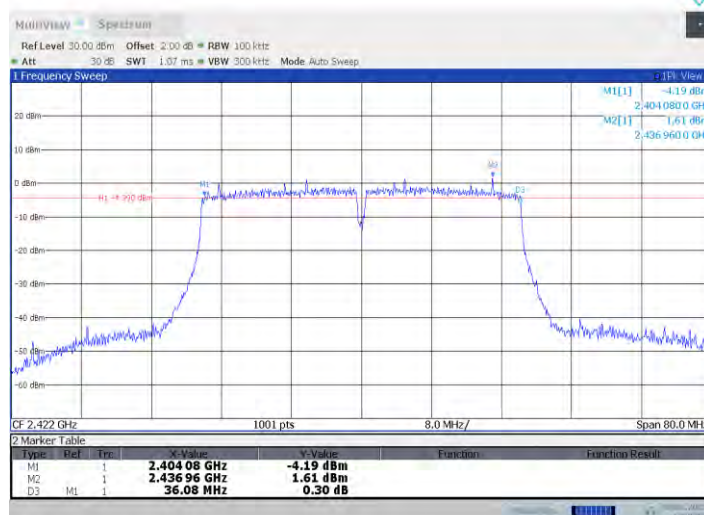
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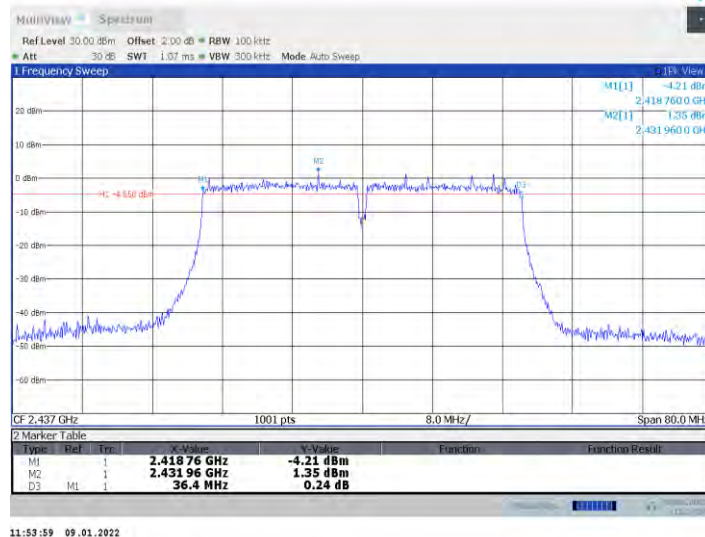
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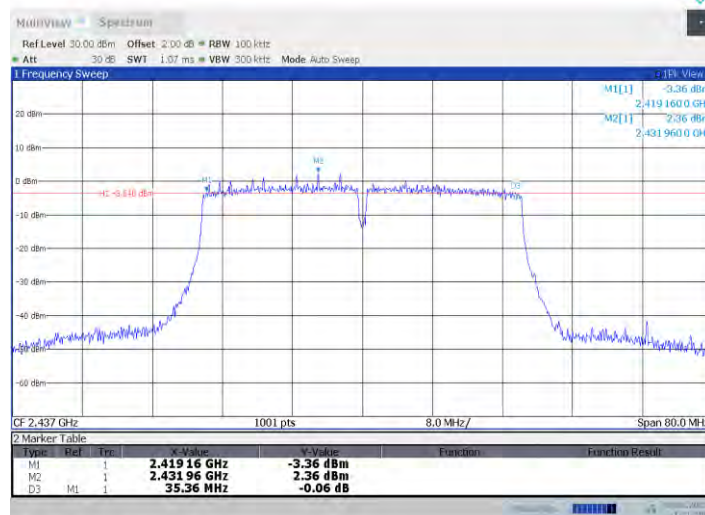
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11N40MIMO_Ant18_2437



12:13:09 09.01.2022



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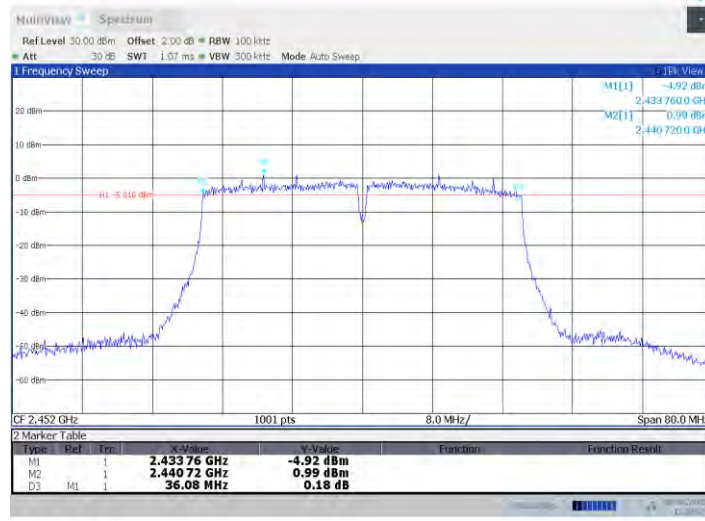
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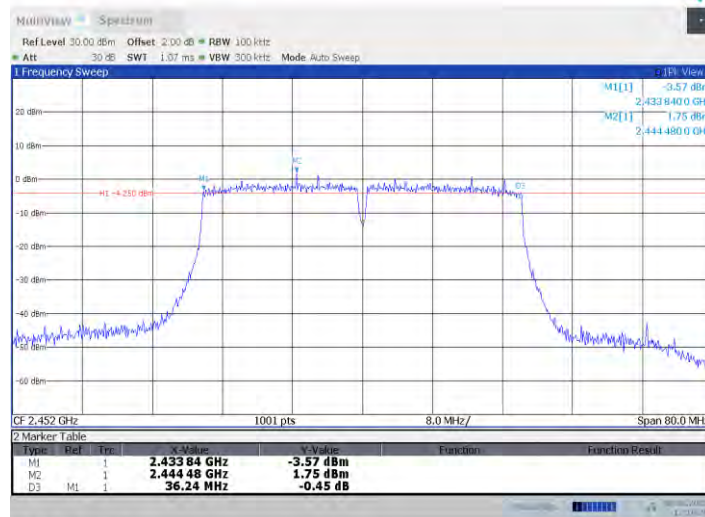
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11N40MIMO_Ant16_2452



11:58:28 09.01.2022

11N40MIMO_Ant18_2452



12:16:28 09.01.2022



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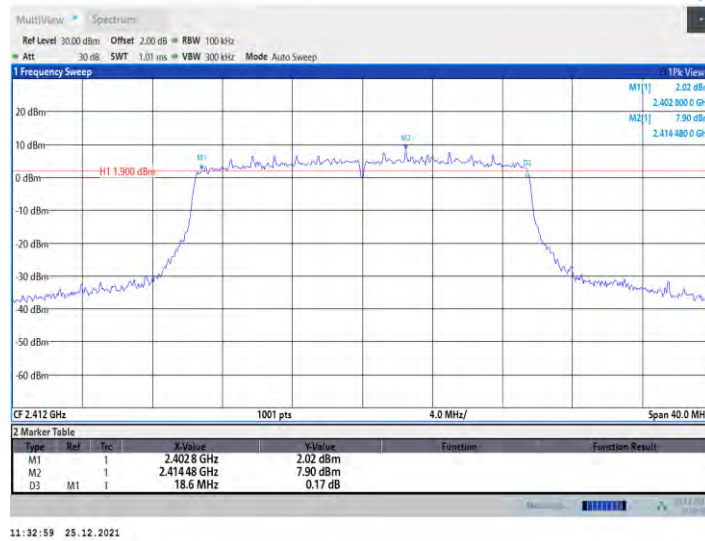
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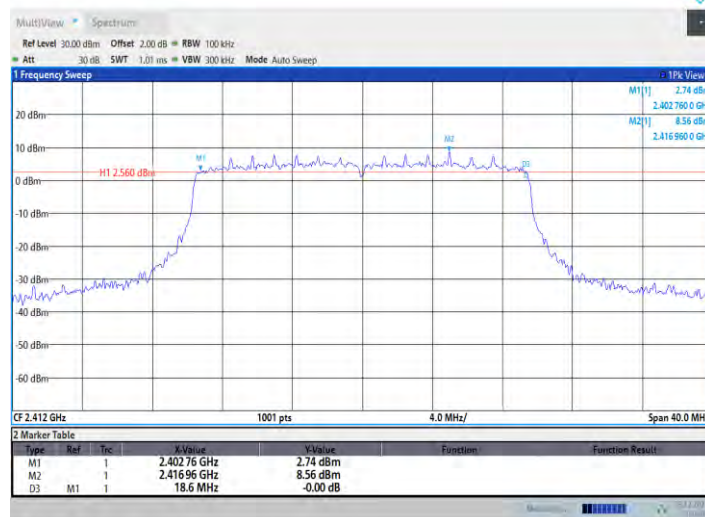
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11AX20MIMO_Ant16_2412



11:32:59 25.12.2021

11AX20MIMO_Ant18_2412



11:36:03 25.12.2021



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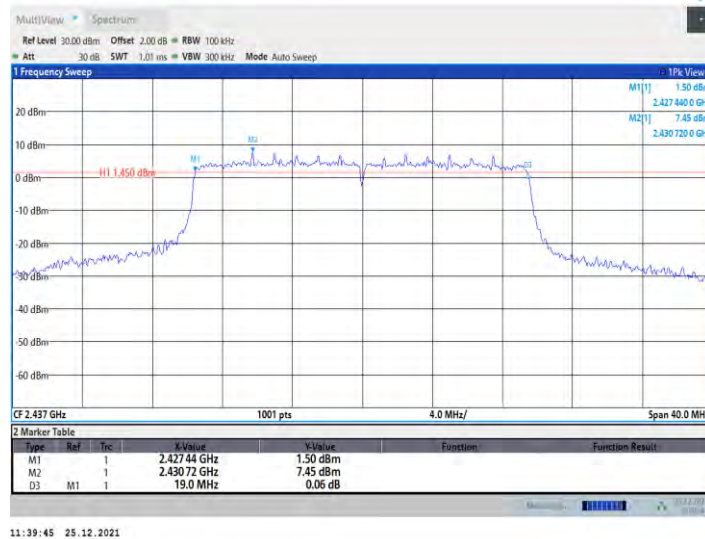
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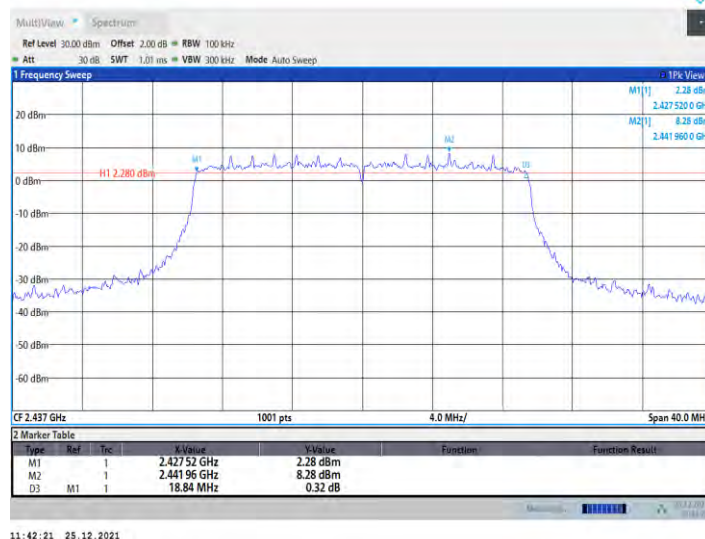
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11AX20MIMO_Ant16_2437



11:39:45 25.12.2021

11AX20MIMO_Ant18_2437



11:42:21 25.12.2021



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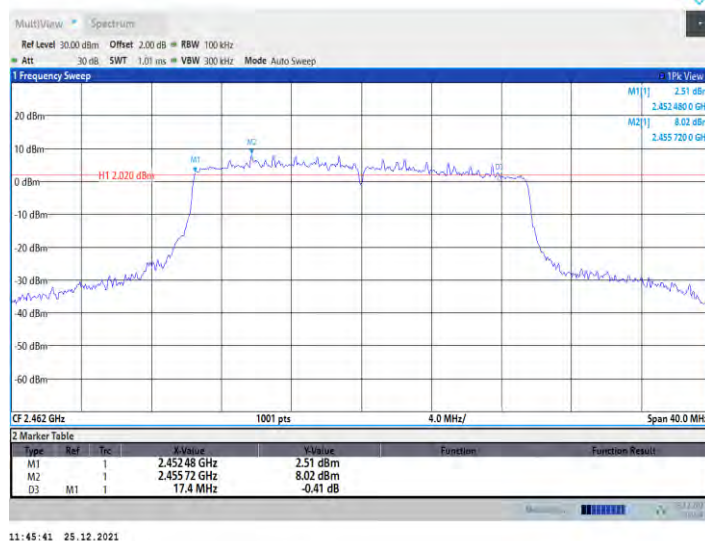
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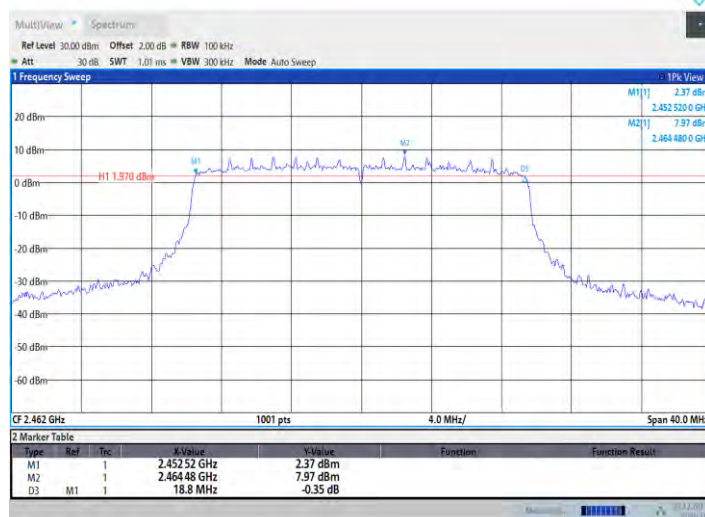
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11AX20MIMO_Ant16_2462



11:45:41 25.12.2021

11AX20MIMO_Ant18_2462



11:49:19 25.12.2021



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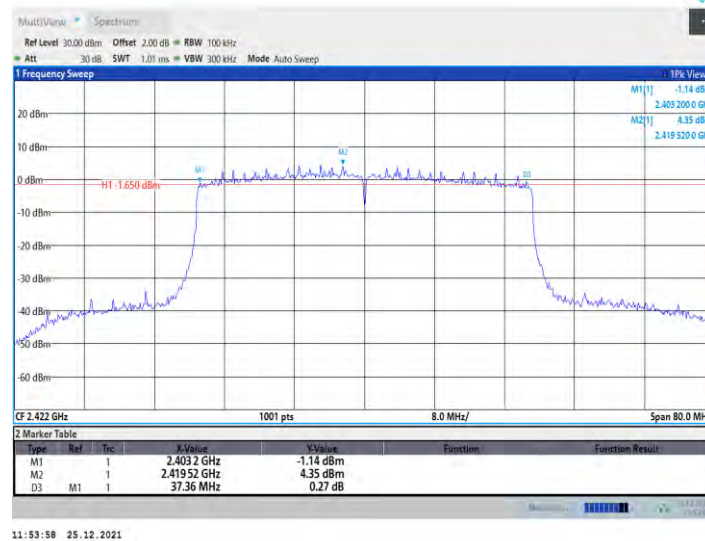
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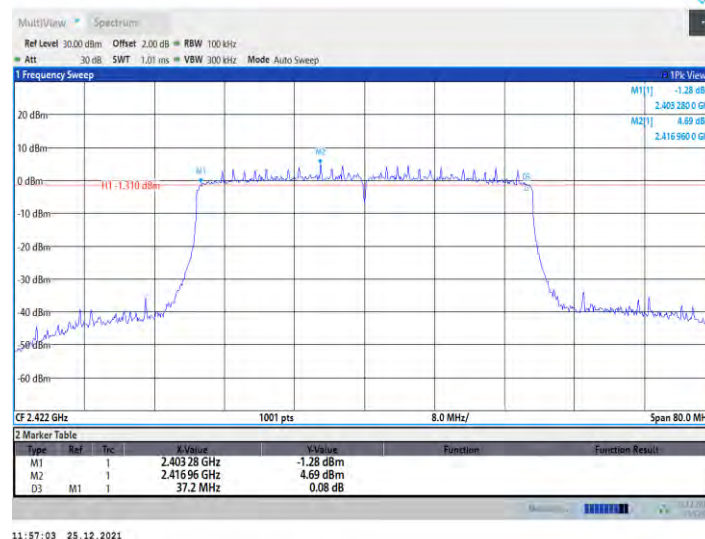
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11AX40MIMO_Ant16_2422



11:53:58 25.12.2021

11AX40MIMO_Ant18_2422



11:57:03 25.12.2021



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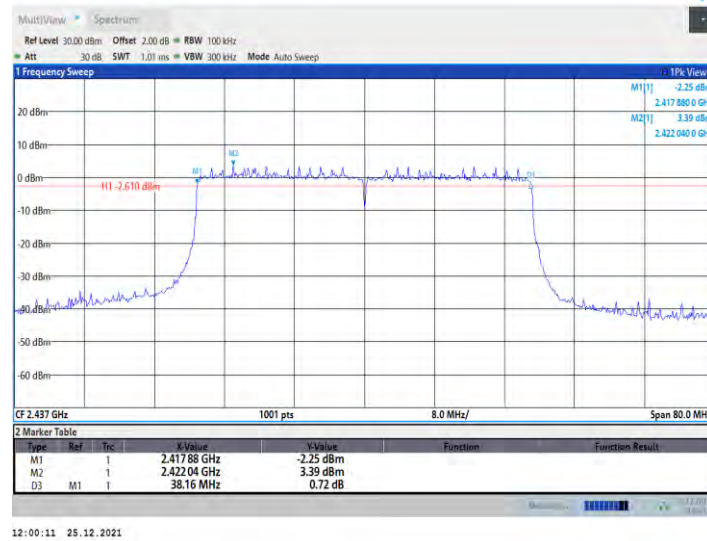
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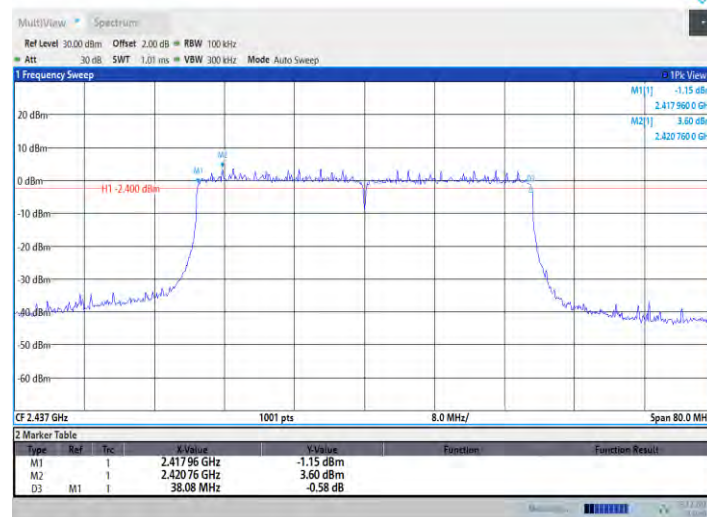
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11AX40MIMO_Ant16_2437



12:00:11 25.12.2021

11AX40MIMO_Ant18_2437



12:02:04 25.12.2021



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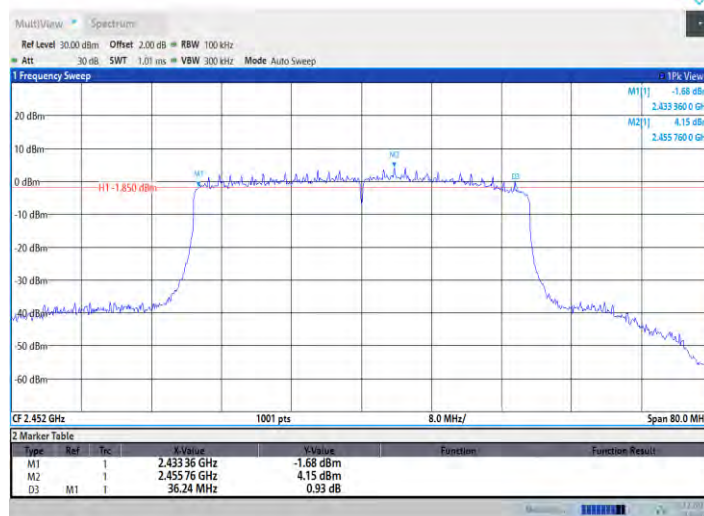
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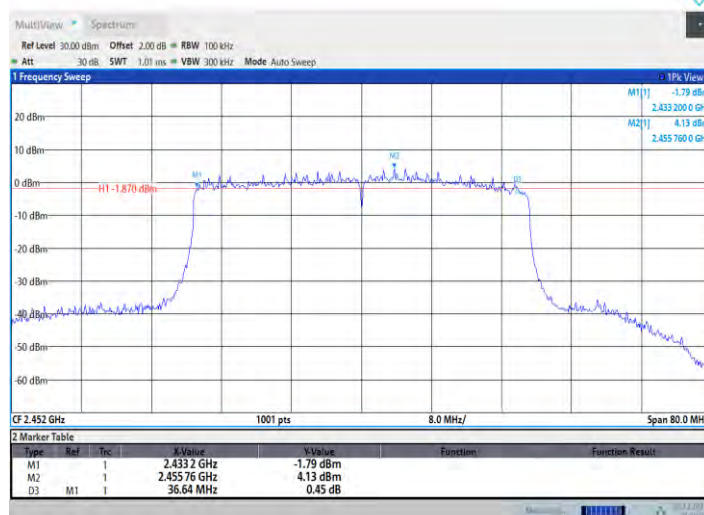
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11AX40MIMO_Ant16_2452



12:06:26 25.12.2021

11AX40MIMO_Ant18_2452



12:10:05 25.12.2021



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Occupied Channel Bandwidth Test Result

ANT16+ANT17

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant16	2412	12.695	2405.748	2418.443	---	PASS
	Ant17	2412	12.896	2405.524	2418.420	---	PASS
	Ant16	2437	13.181	2430.342	2443.523	---	PASS
	Ant17	2437	13.049	2430.434	2443.482	---	PASS
	Ant16	2462	13.051	2455.317	2468.368	---	PASS
	Ant17	2462	13.109	2455.328	2468.437	---	PASS
11G-CDD	Ant16	2412	16.571	2403.713	2420.284	---	PASS
	Ant17	2412	16.54	2403.705	2420.245	---	PASS
	Ant16	2437	16.788	2428.528	2445.316	---	PASS
	Ant17	2437	16.58	2428.679	2445.259	---	PASS
	Ant16	2462	16.607	2453.605	2470.211	---	PASS
	Ant17	2462	16.632	2453.631	2470.263	---	PASS
11N20MIMO	Ant16	2412	17.709	2403.137	2420.845	---	PASS
	Ant17	2412	17.71	2403.114	2420.824	---	PASS
	Ant16	2437	17.815	2428.061	2445.875	---	PASS
	Ant17	2437	17.771	2428.107	2445.878	---	PASS
	Ant16	2462	17.776	2453.027	2470.803	---	PASS
	Ant17	2462	17.725	2453.047	2470.773	---	PASS
11N40MIMO	Ant16	2422	36.08	2403.886	2439.966	---	PASS
	Ant17	2422	36.204	2403.848	2440.052	---	PASS
	Ant16	2437	36.416	2418.732	2455.149	---	PASS
	Ant17	2437	36.275	2418.779	2455.053	---	PASS
	Ant16	2452	36.008	2433.872	2469.880	---	PASS
	Ant17	2452	36.259	2433.749	2470.008	---	PASS
11AX20MIMO	Ant16	2412	18.982	2402.512	2421.495	---	PASS
	Ant17	2412	19.025	2402.470	2421.496	---	PASS
	Ant16	2437	19.097	2427.415	2446.512	---	PASS
	Ant17	2437	19.069	2427.416	2446.485	---	PASS
	Ant16	2462	18.995	2452.369	2471.364	---	PASS
	Ant17	2462	19.043	2452.429	2471.472	---	PASS
11AX40MIMO	Ant16	2422	37.806	2403.024	2440.830	---	PASS
	Ant17	2422	37.853	2403.032	2440.885	---	PASS
	Ant16	2437	38.099	2417.879	2455.978	---	PASS
	Ant17	2437	37.961	2417.965	2455.926	---	PASS
	Ant16	2452	37.626	2433.061	2470.687	---	PASS
	Ant17	2452	37.869	2432.989	2470.858	---	PASS



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ANT16+ANT18

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant16	2412	12.843	2405.604	2418.447	---	PASS
	Ant18	2412	12.844	2405.602	2418.446	---	PASS
	Ant16	2437	13.126	2430.410	2443.536	---	PASS
	Ant18	2437	12.995	2430.451	2443.446	---	PASS
	Ant16	2462	13.038	2455.332	2468.369	---	PASS
	Ant18	2462	12.976	2455.457	2468.434	---	PASS
11G-CDD	Ant16	2412	16.632	2403.691	2420.323	---	PASS
	Ant18	2412	16.603	2403.689	2420.292	---	PASS
	Ant16	2437	16.999	2428.388	2445.388	---	PASS
	Ant18	2437	16.629	2428.652	2445.281	---	PASS
	Ant16	2462	16.822	2453.433	2470.254	---	PASS
	Ant18	2462	16.587	2453.667	2470.255	---	PASS
11N20MIMO	Ant16	2412	17.751	2403.161	2420.912	---	PASS
	Ant18	2412	17.781	2403.111	2420.892	---	PASS
	Ant16	2437	17.889	2428.028	2445.917	---	PASS
	Ant18	2437	17.780	2428.070	2445.850	---	PASS
	Ant16	2462	17.737	2453.009	2470.746	---	PASS
	Ant18	2462	17.753	2453.080	2470.833	---	PASS
11N40MIMO	Ant16	2422	36.059	2403.951	2440.010	---	PASS
	Ant18	2422	36.170	2403.900	2440.070	---	PASS
	Ant16	2437	36.251	2418.835	2455.086	---	PASS
	Ant18	2437	36.186	2418.856	2455.042	---	PASS
	Ant16	2452	36.094	2433.870	2469.964	---	PASS
	Ant18	2452	36.247	2433.785	2470.031	---	PASS
11AX20MIMO	Ant16	2412	19.018	2402.508	2421.526	---	PASS
	Ant18	2412	19.074	2402.456	2421.530	---	PASS
	Ant16	2437	19.178	2427.358	2446.537	---	PASS
	Ant18	2437	19.093	2427.419	2446.512	---	PASS
	Ant16	2462	19.050	2452.380	2471.429	---	PASS
	Ant18	2462	19.048	2452.431	2471.480	---	PASS
11AX40MIMO	Ant16	2422	37.788	2403.112	2440.900	---	PASS
	Ant18	2422	37.923	2403.008	2440.931	---	PASS
	Ant16	2437	38.072	2417.896	2455.968	---	PASS
	Ant18	2437	38.138	2417.874	2456.013	---	PASS
	Ant16	2452	37.784	2432.982	2470.766	---	PASS
	Ant18	2452	37.736	2432.976	2470.712	---	PASS



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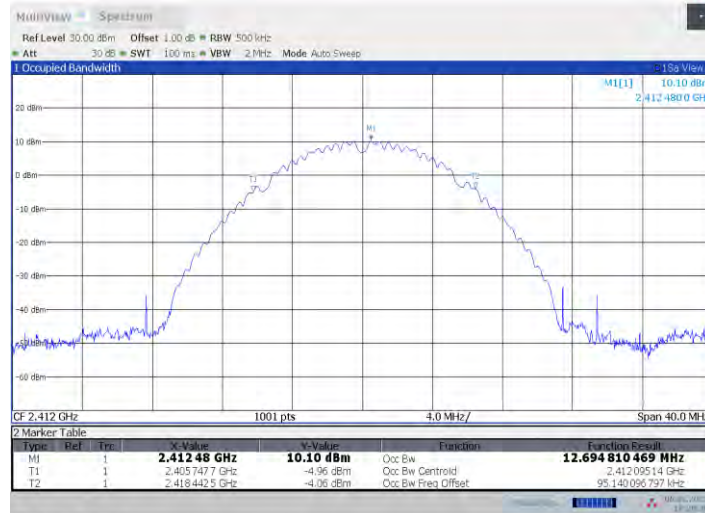
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Test Graphs

ANT16+ANT17

11B-CDD_Ant16_2412



10:28:39 05.01.2022

11B-CDD_Ant17_2412



10:54:35 05.01.2022



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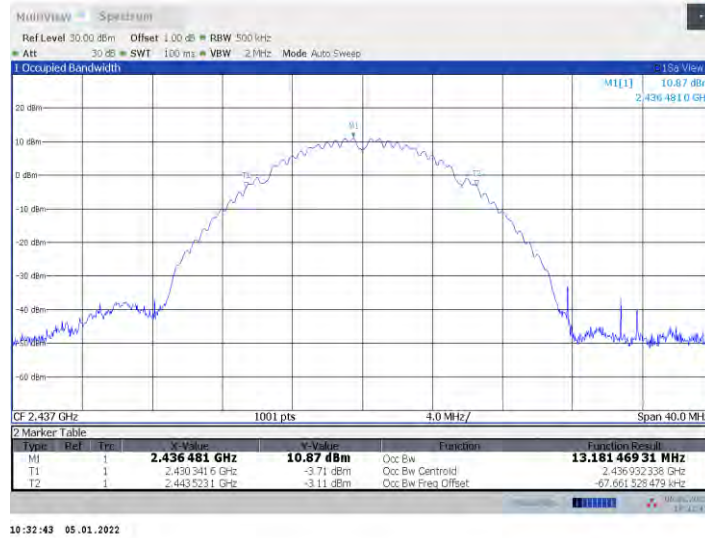
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11:00:31 05.01.2022



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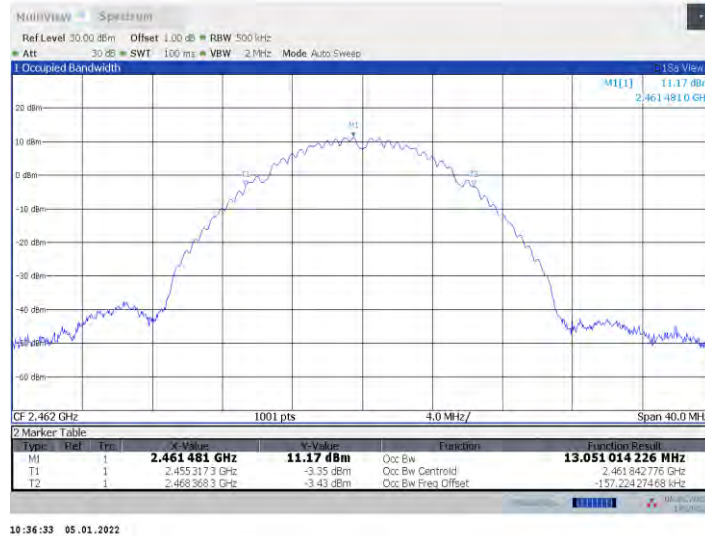
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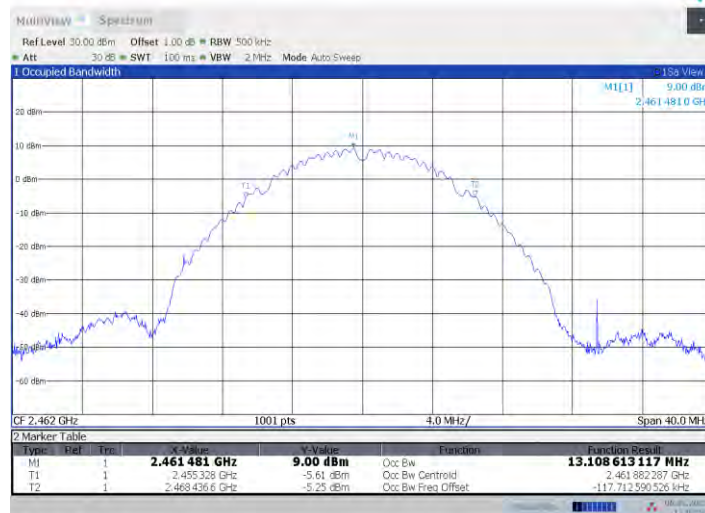
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10:36:33 05.01.2022

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11:02:52 05.01.2022



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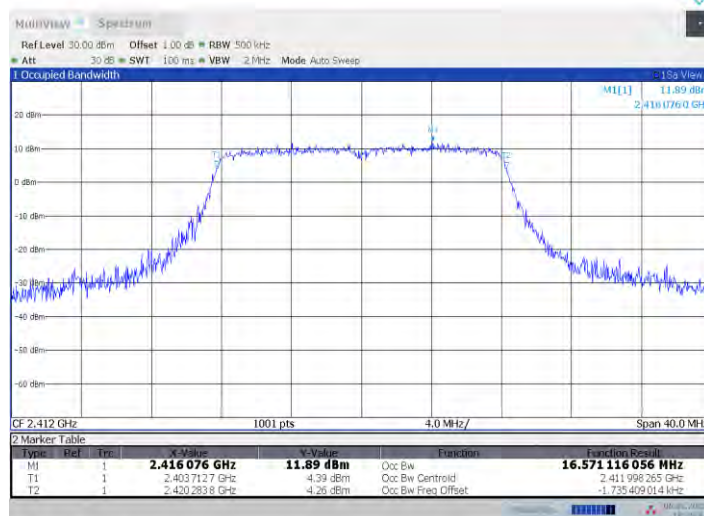
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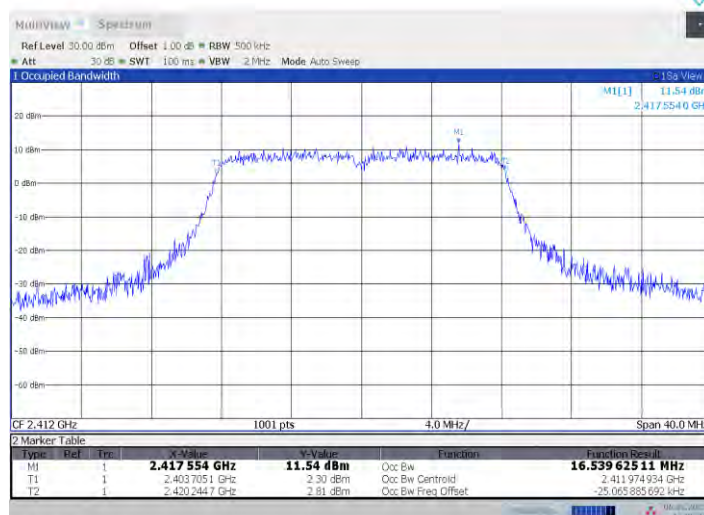
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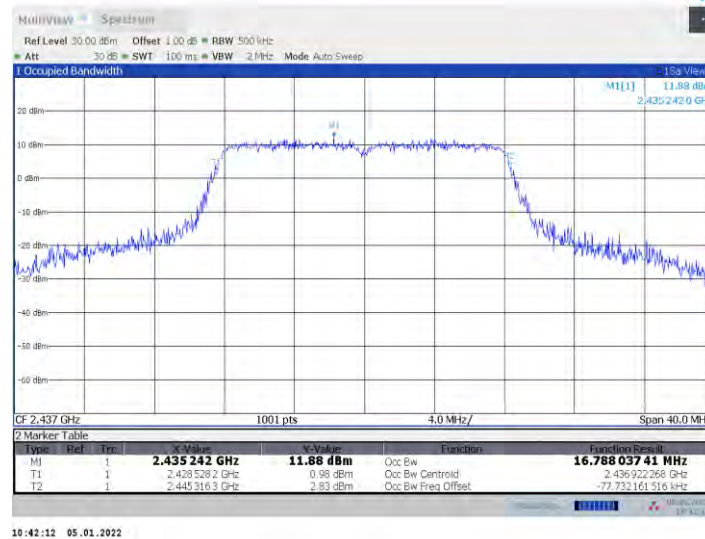
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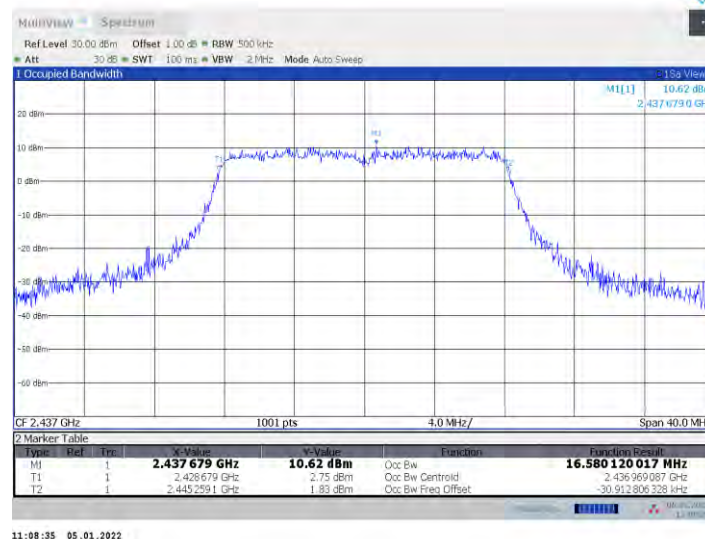
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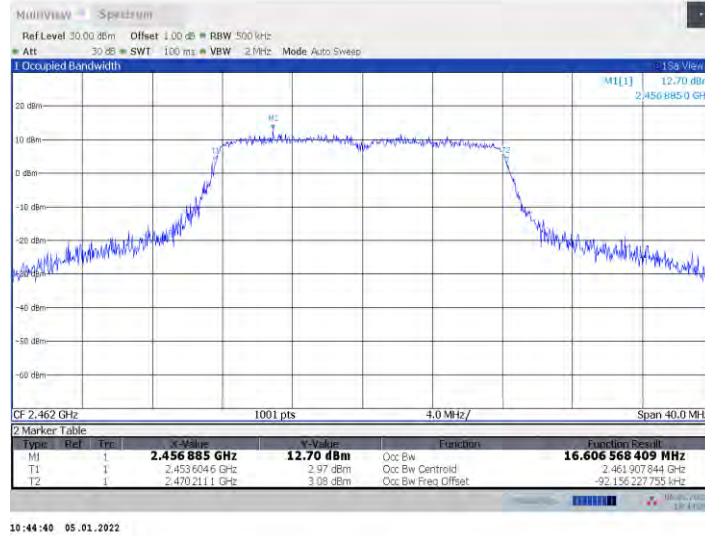
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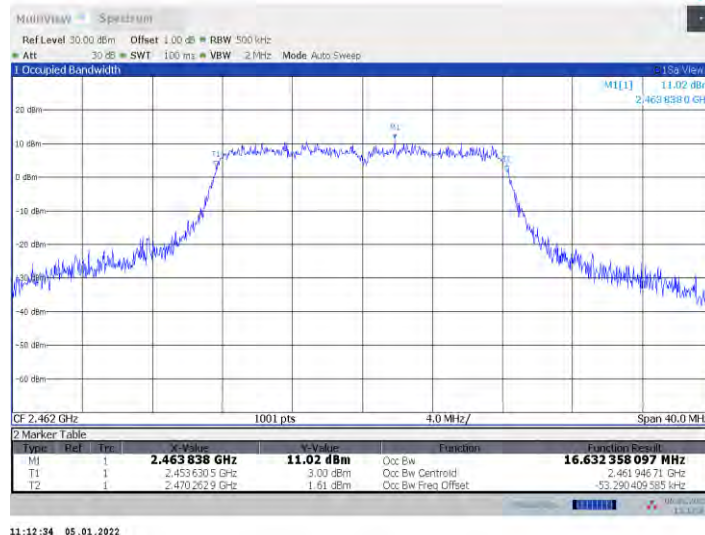
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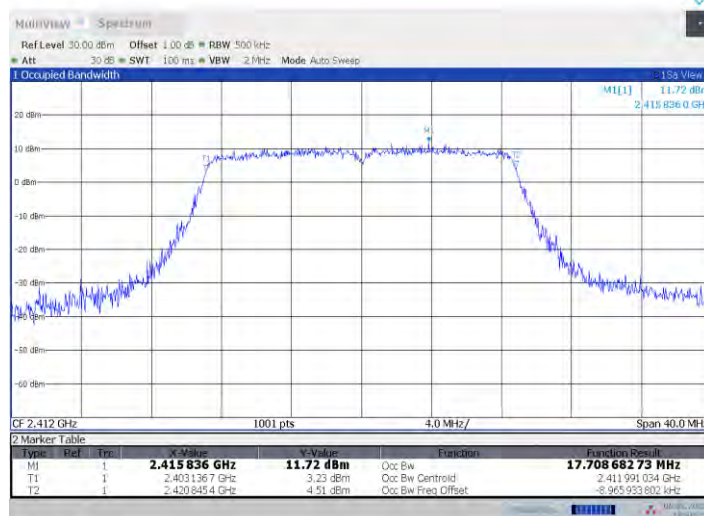
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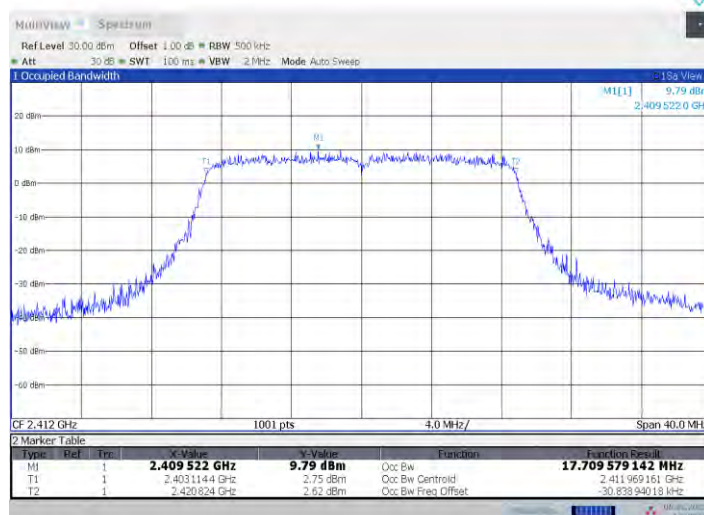
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11:20:16 05.01.2022



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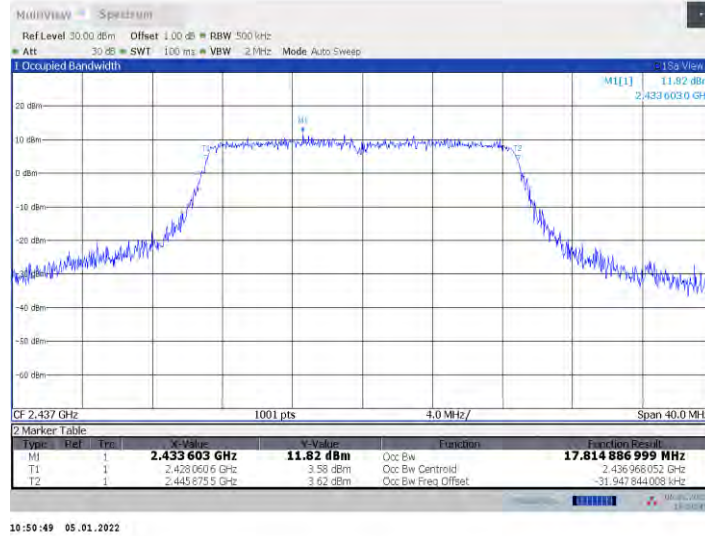
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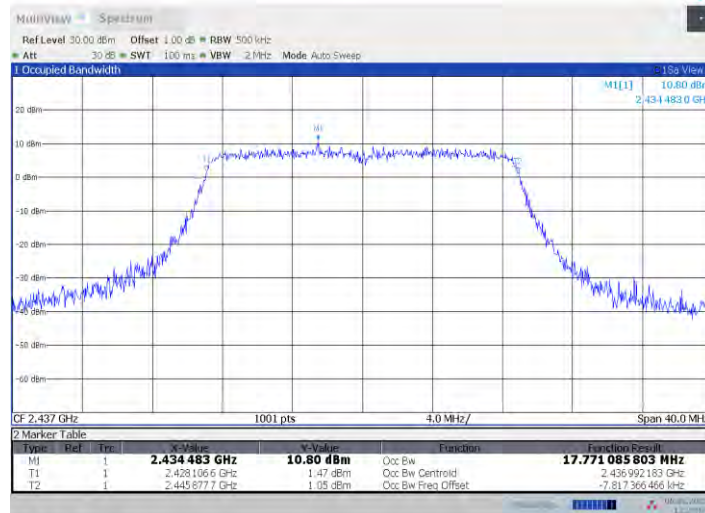
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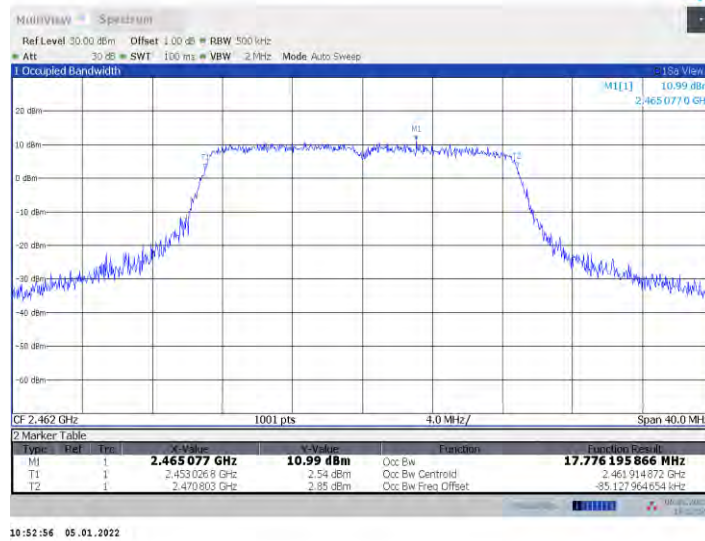
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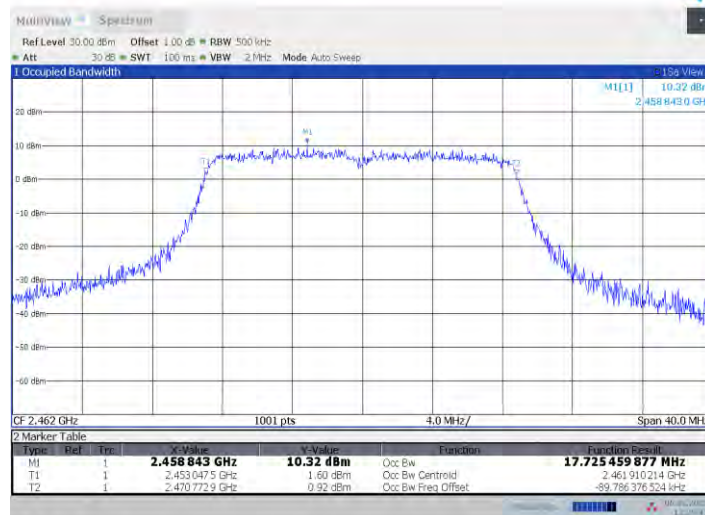
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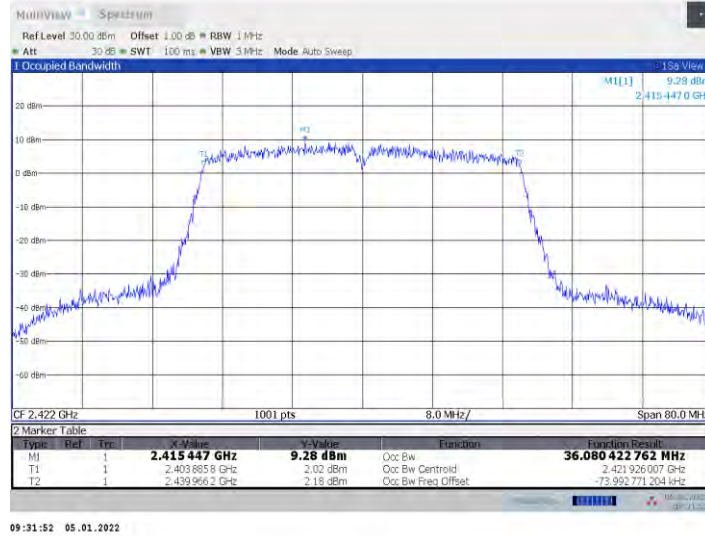
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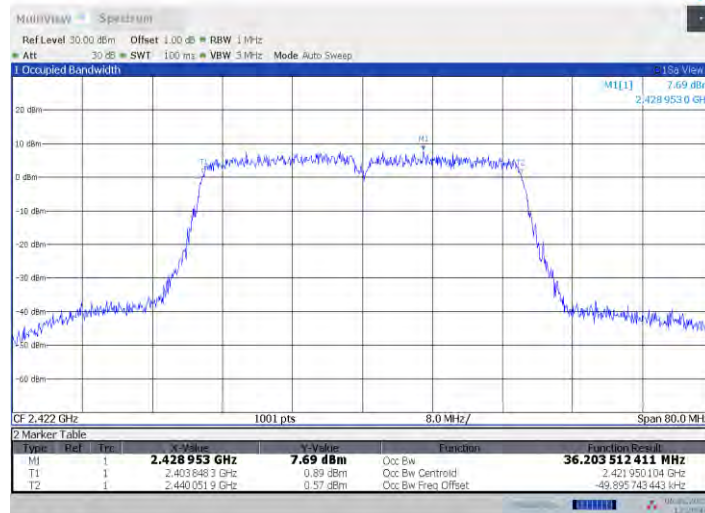
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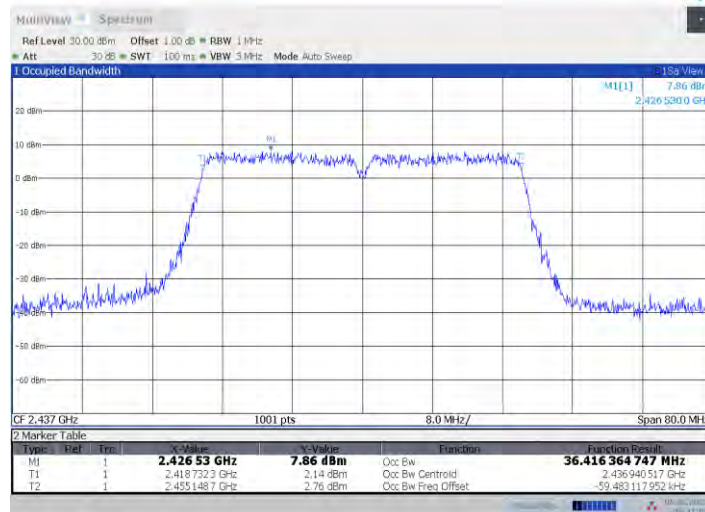
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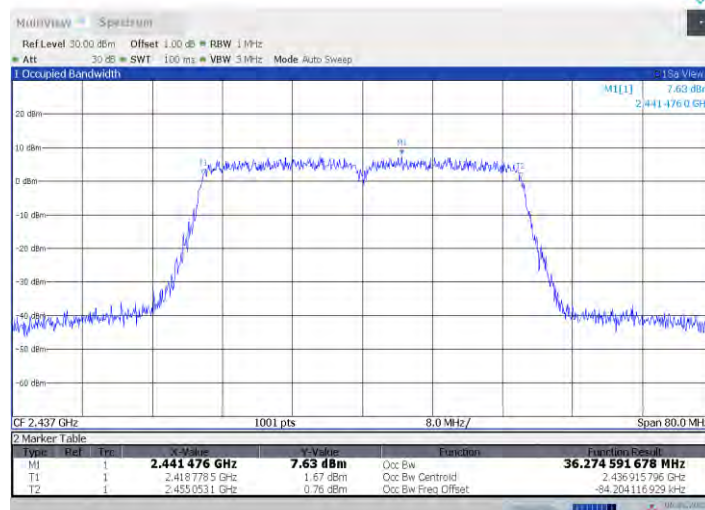
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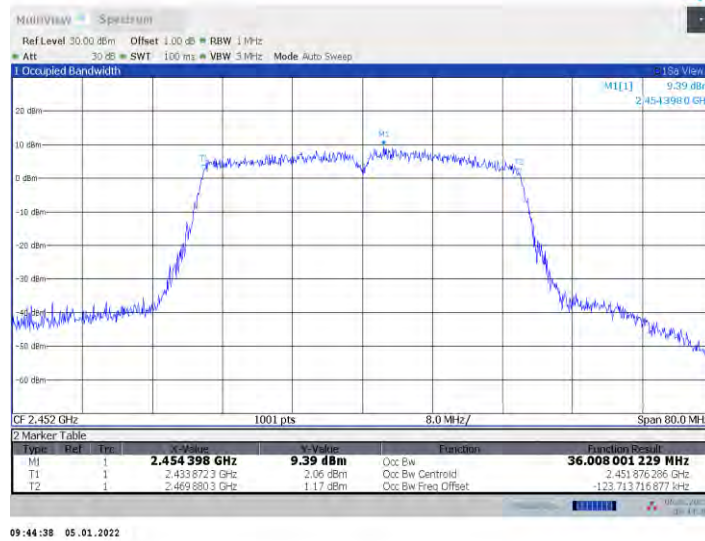
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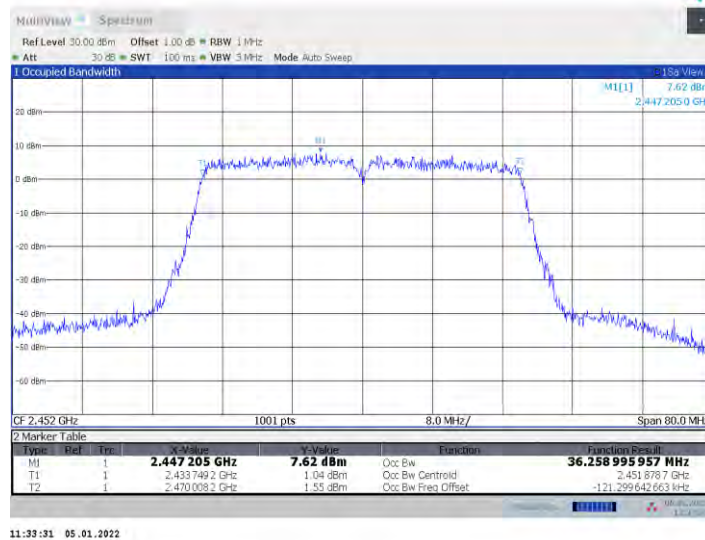
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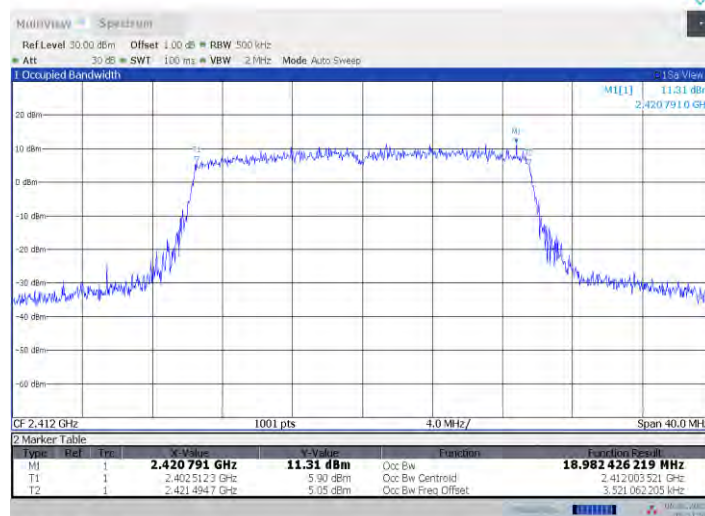
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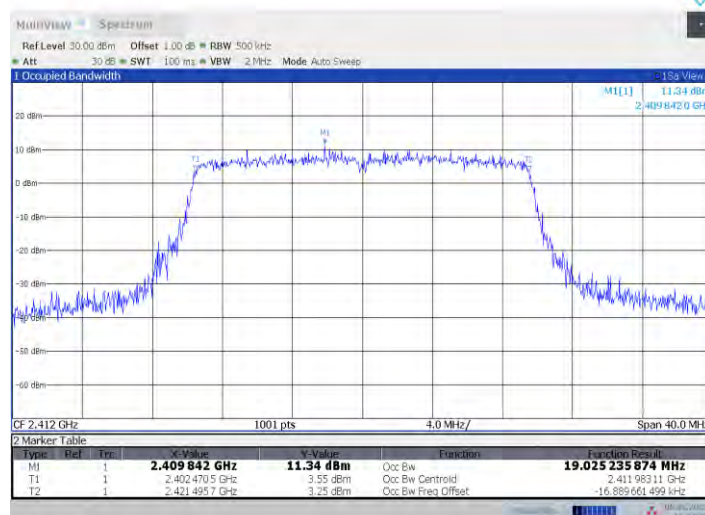
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09:51:59 05.01.2022

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11:54:40 05.01.2022



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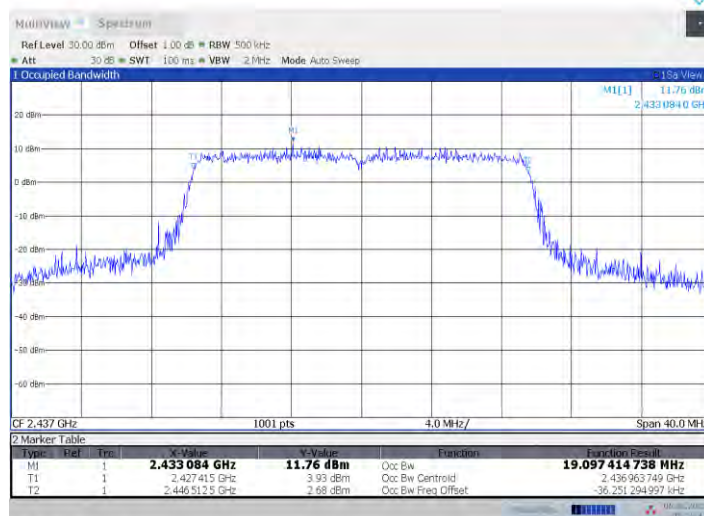
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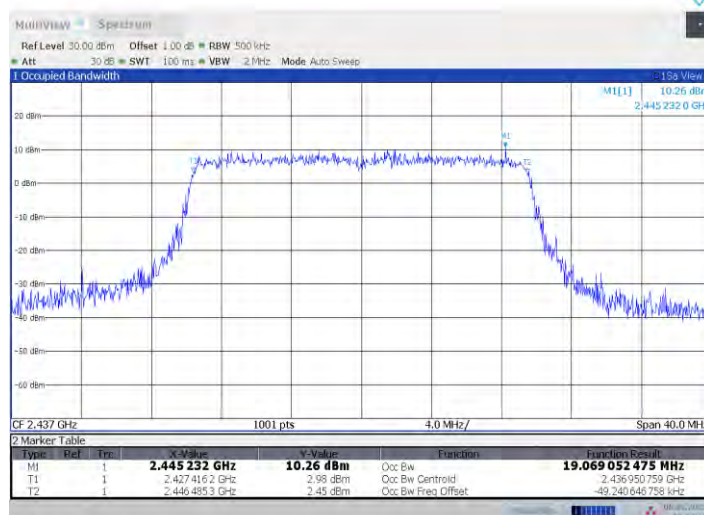
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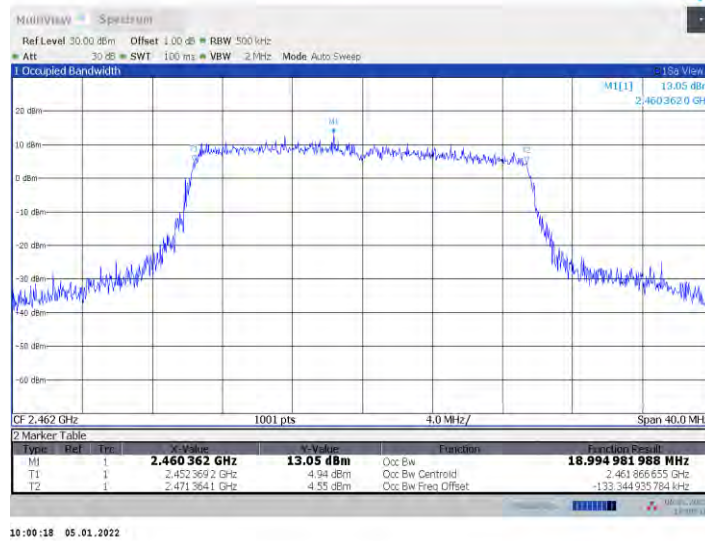
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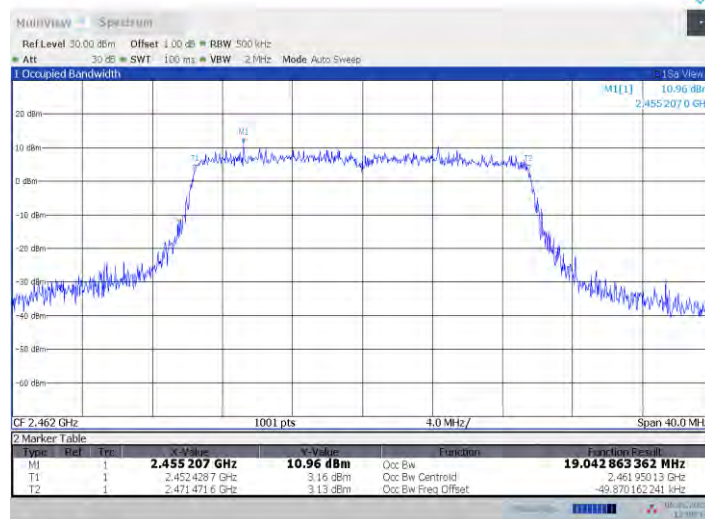
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12:00:14 05.01.2022



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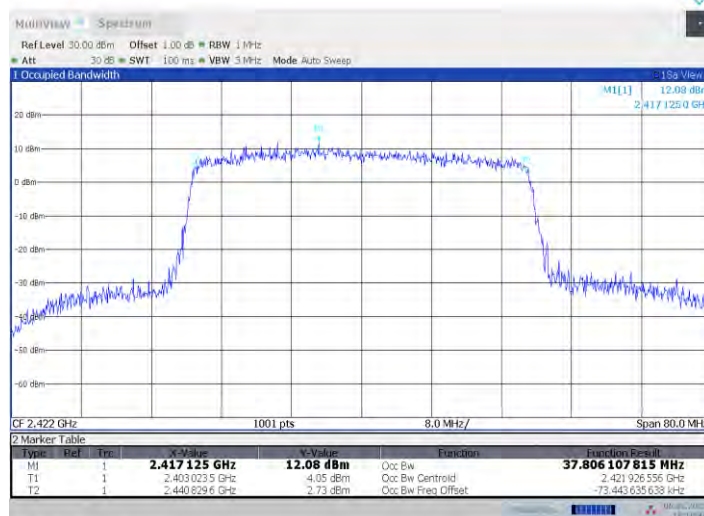
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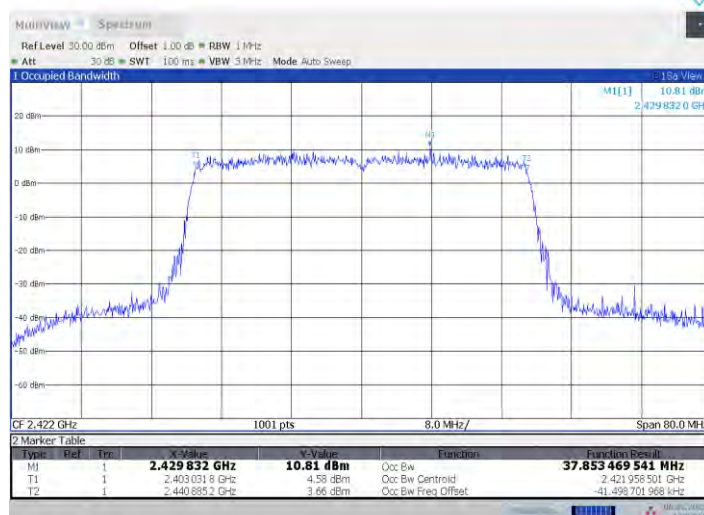
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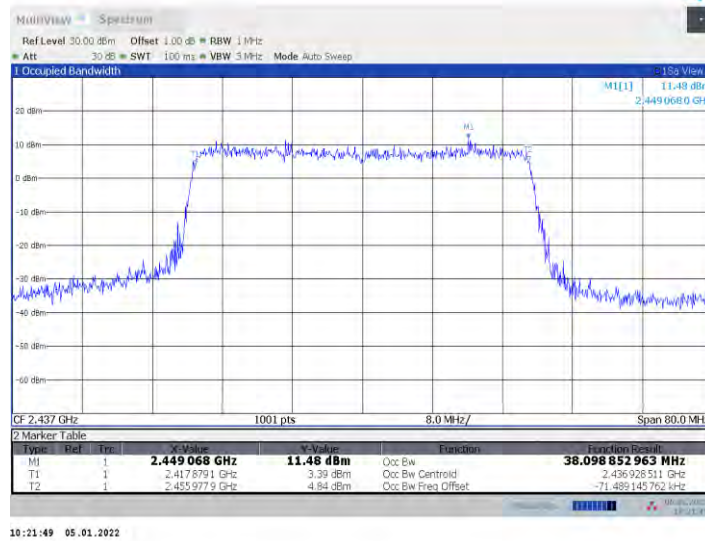
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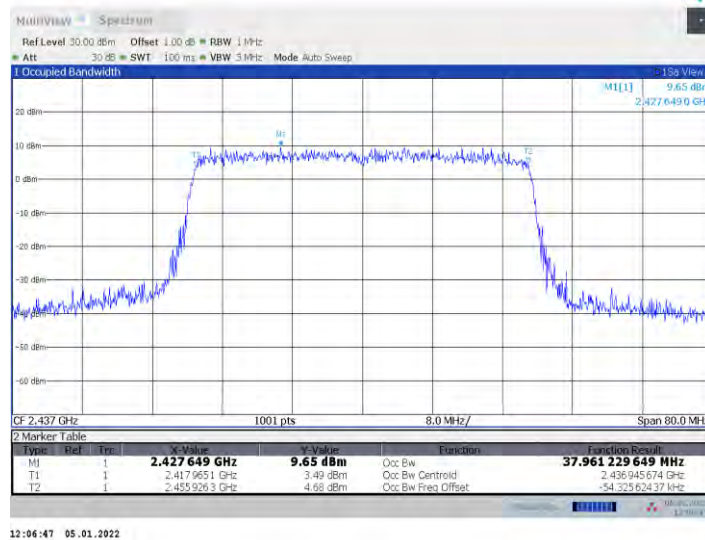
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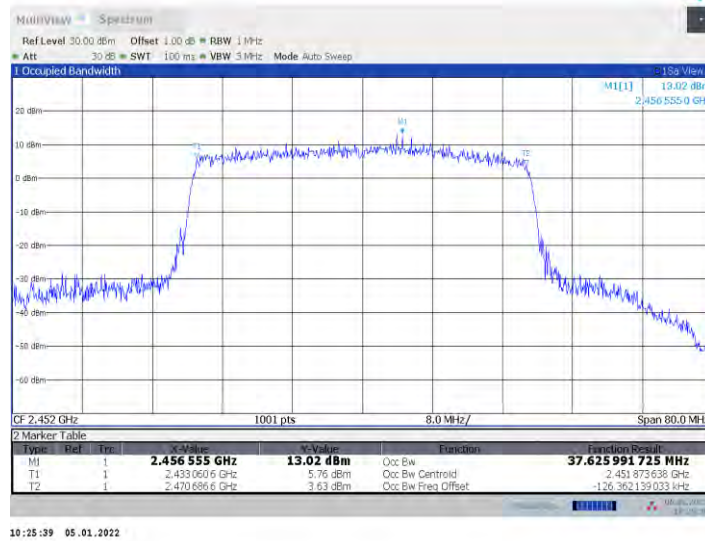
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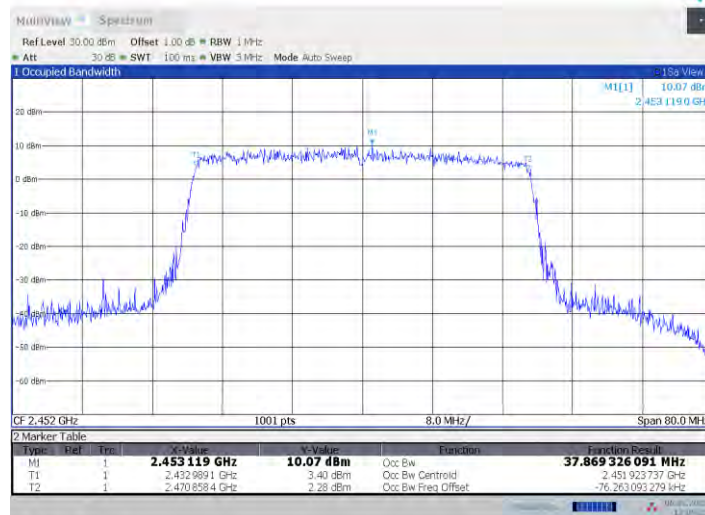
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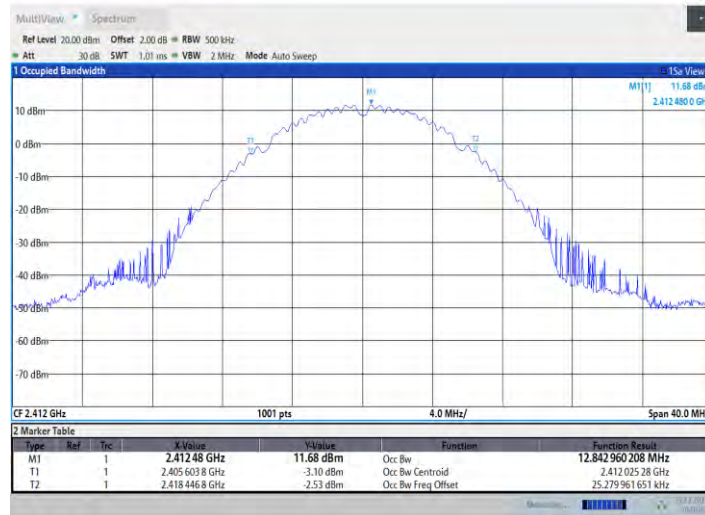
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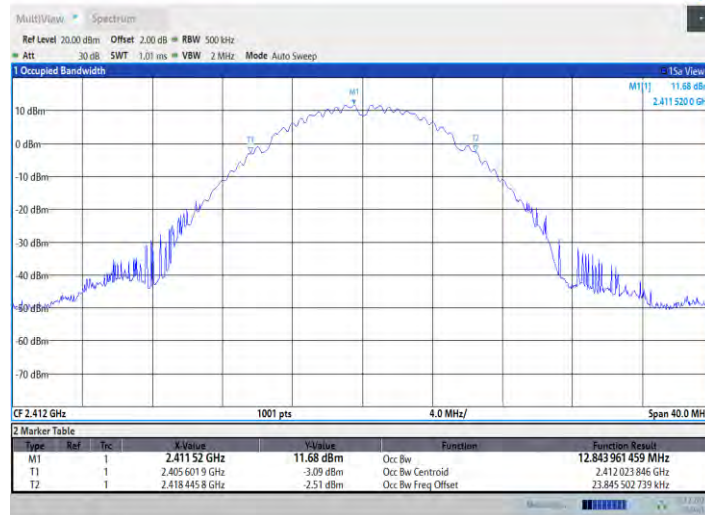
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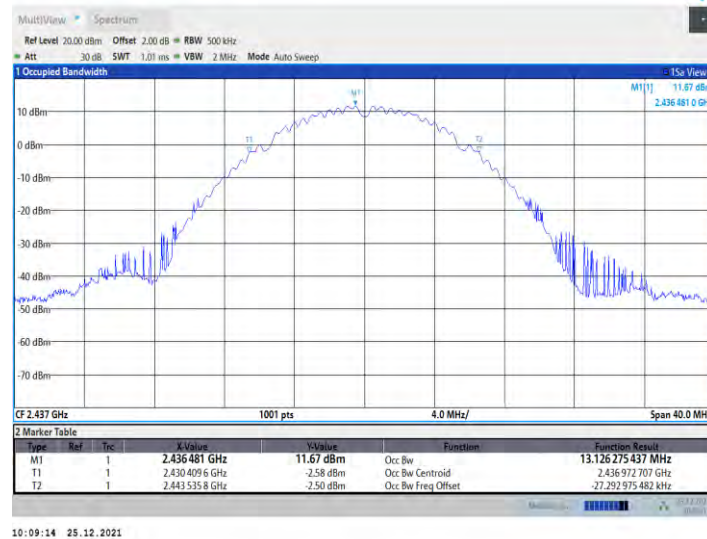
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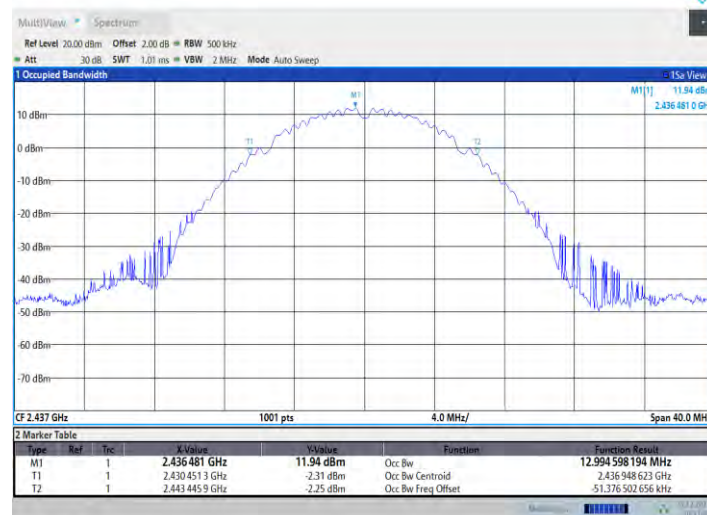
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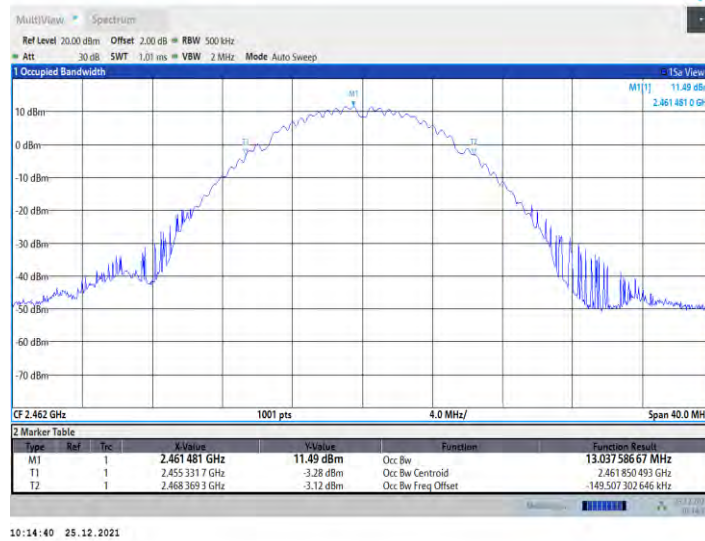
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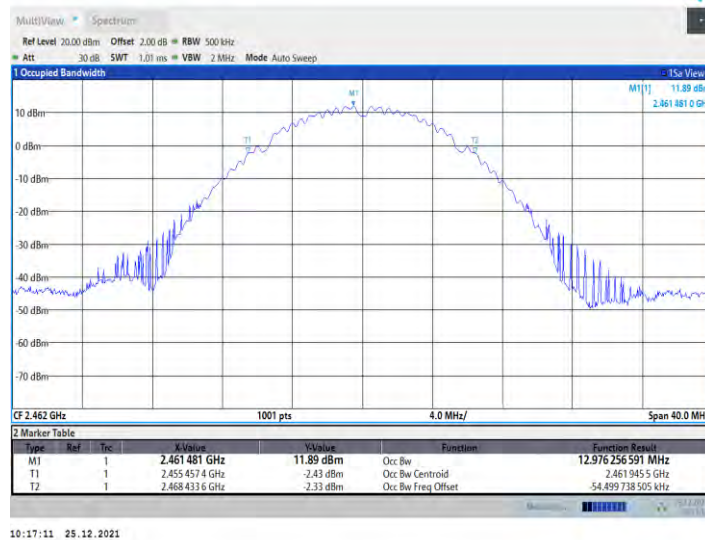
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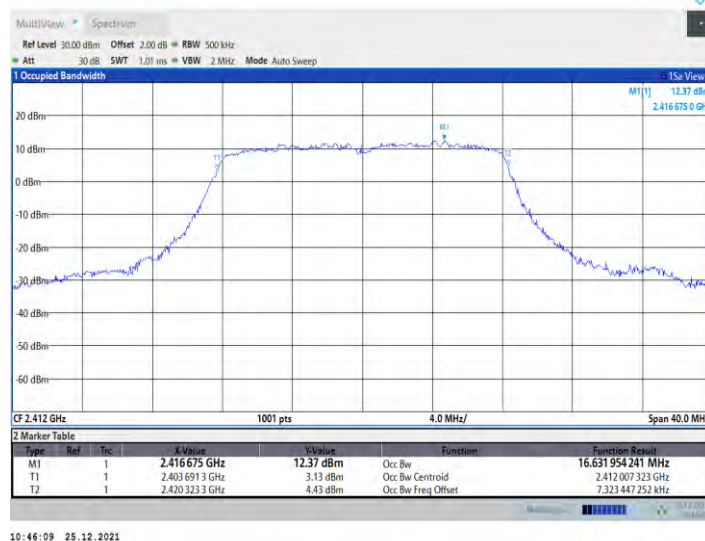
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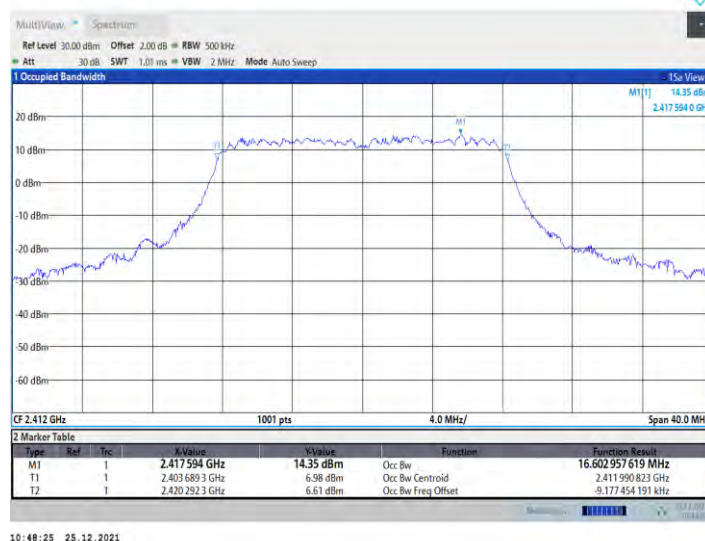
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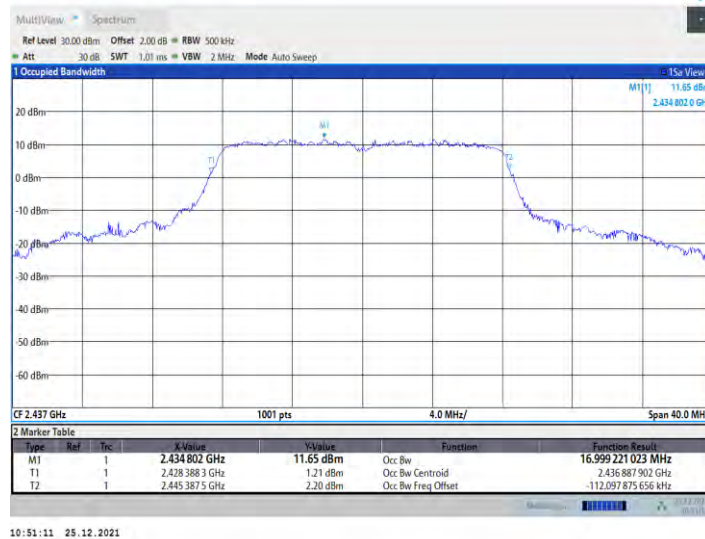
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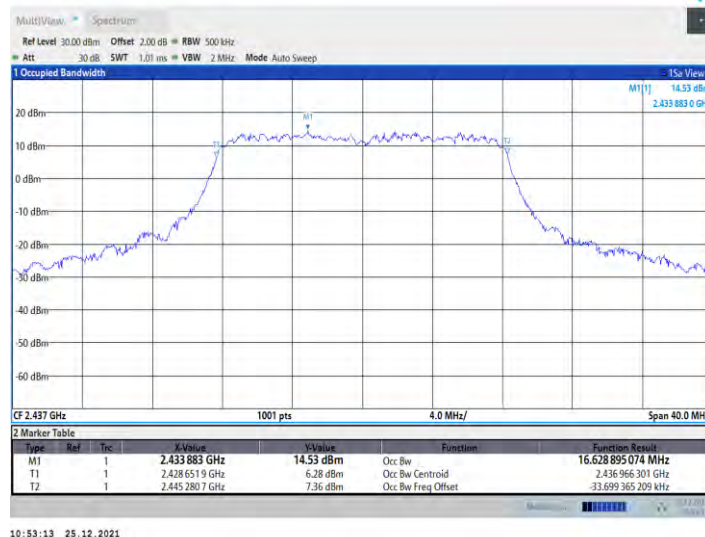
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10:51:11 25.12.2021

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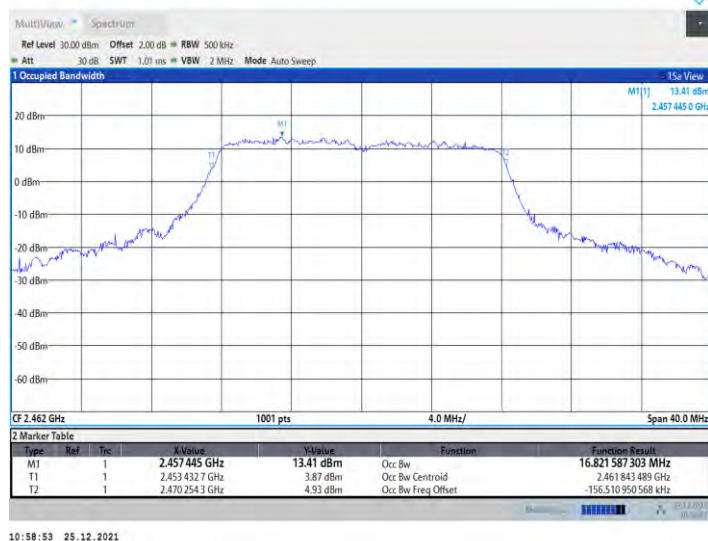
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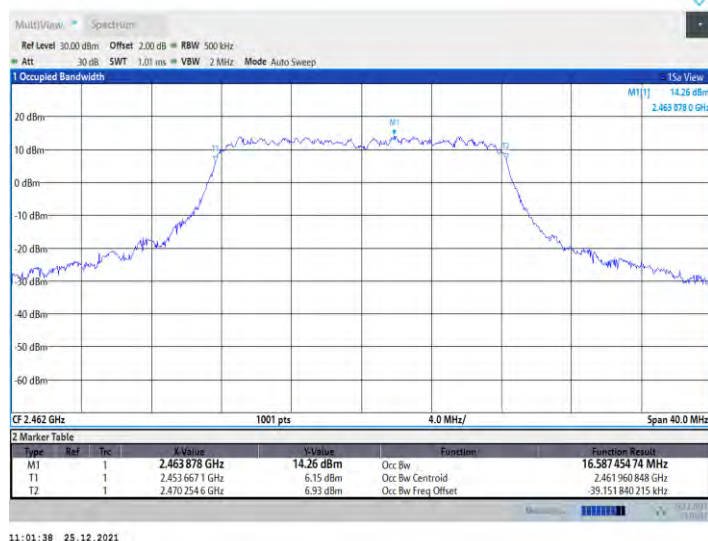
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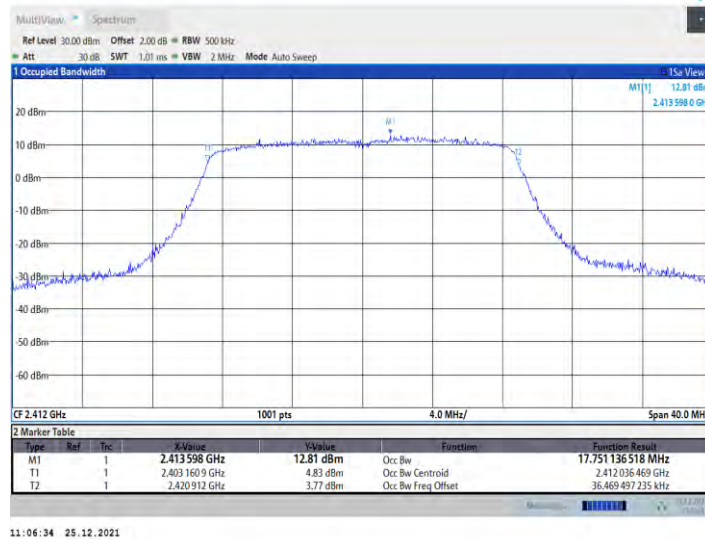
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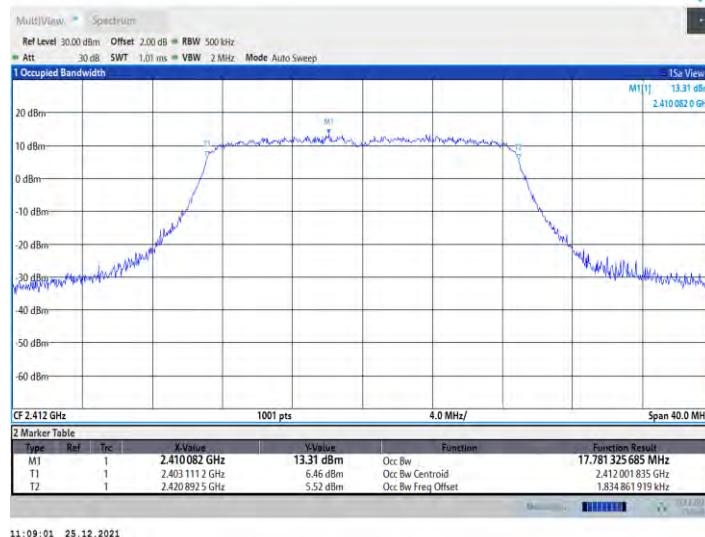
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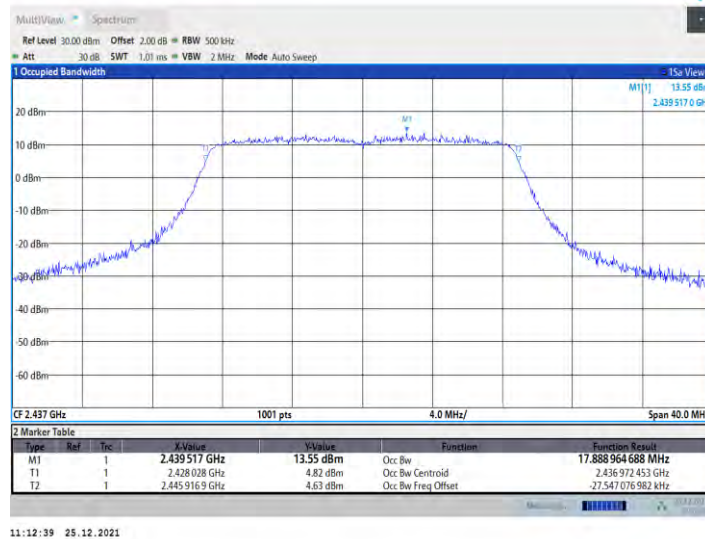
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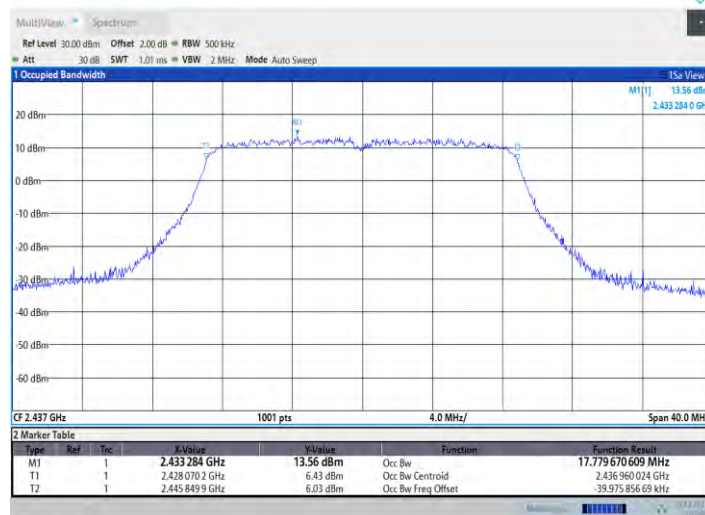
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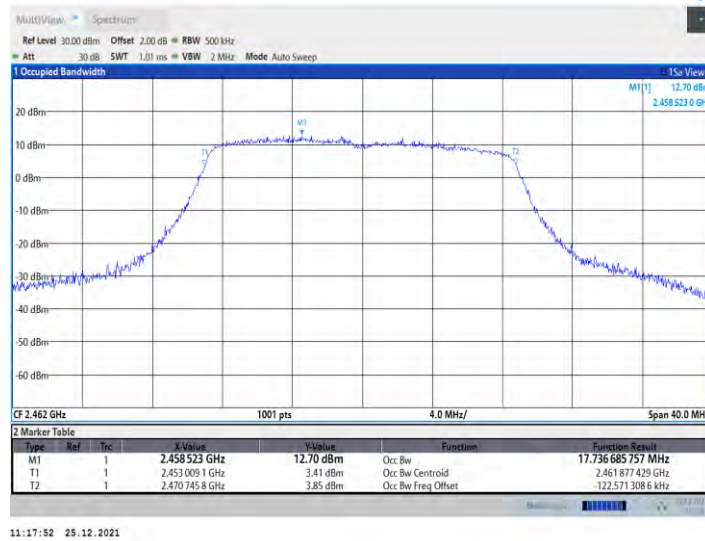
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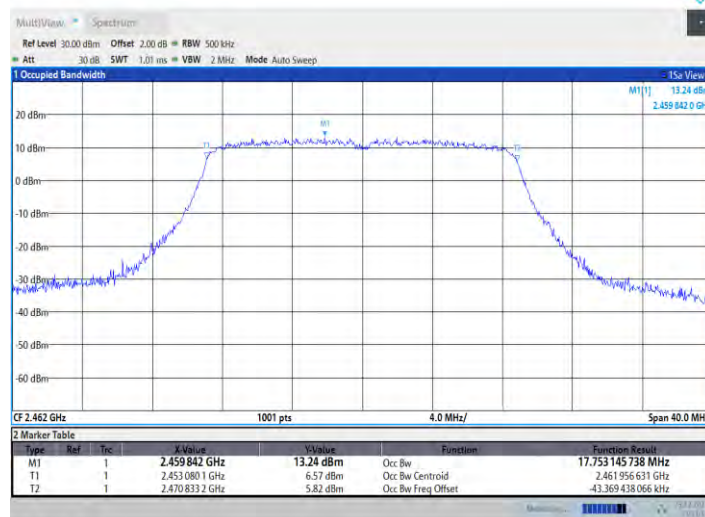
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11:19:19 25.12.2021



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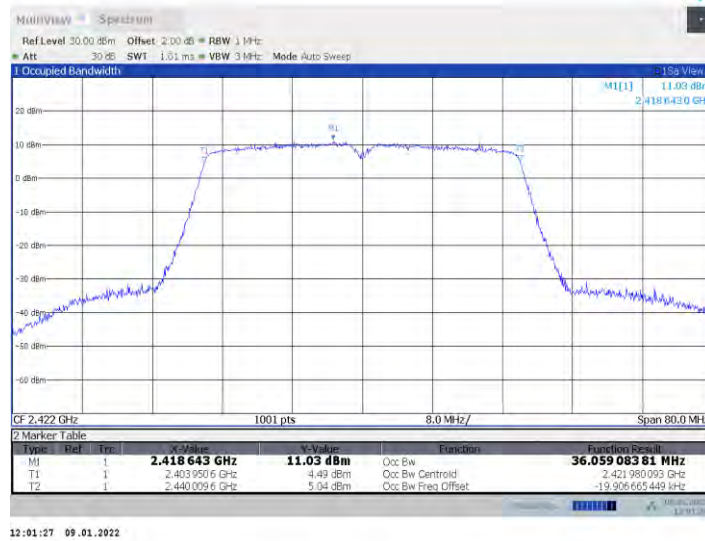
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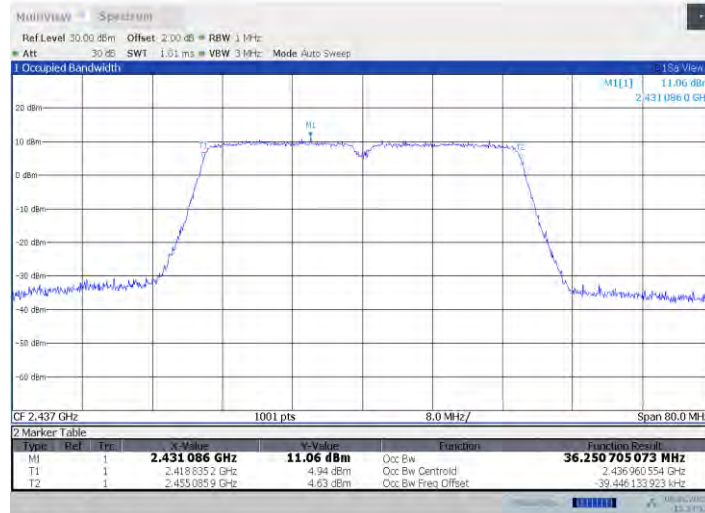
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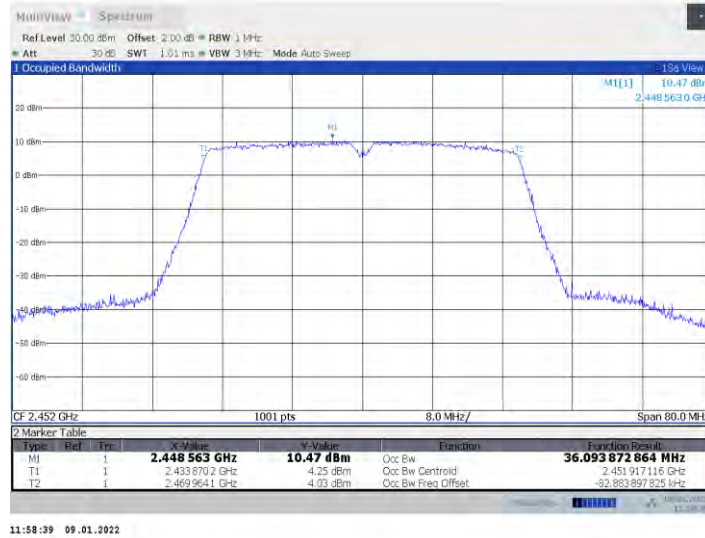
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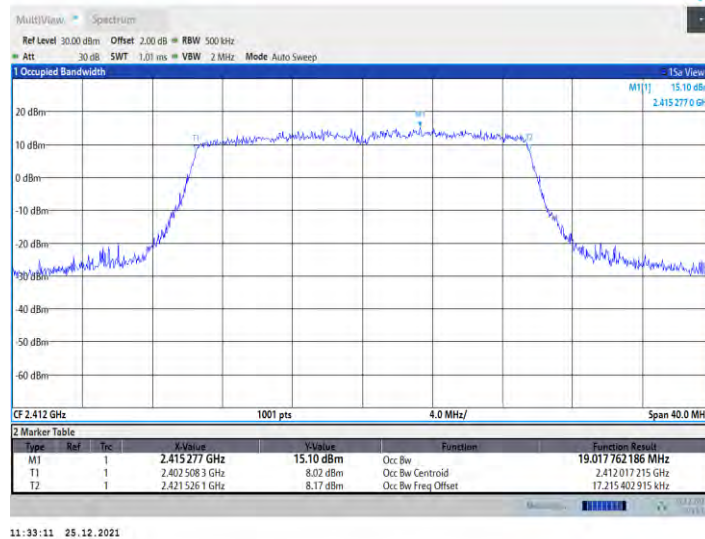
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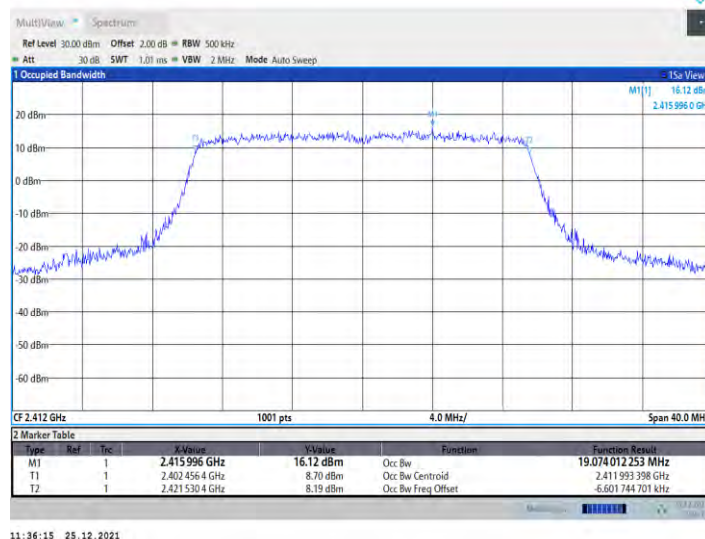
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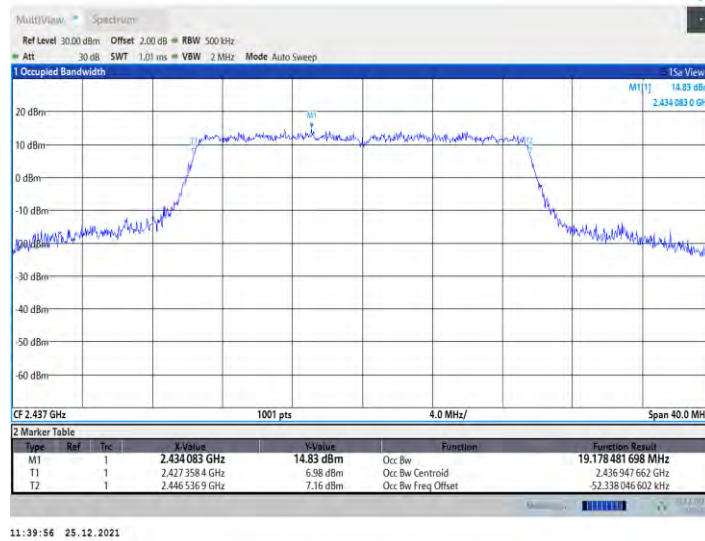
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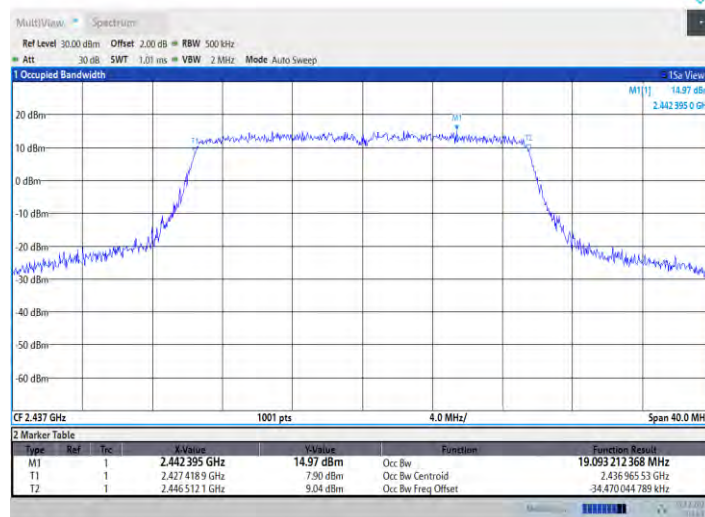
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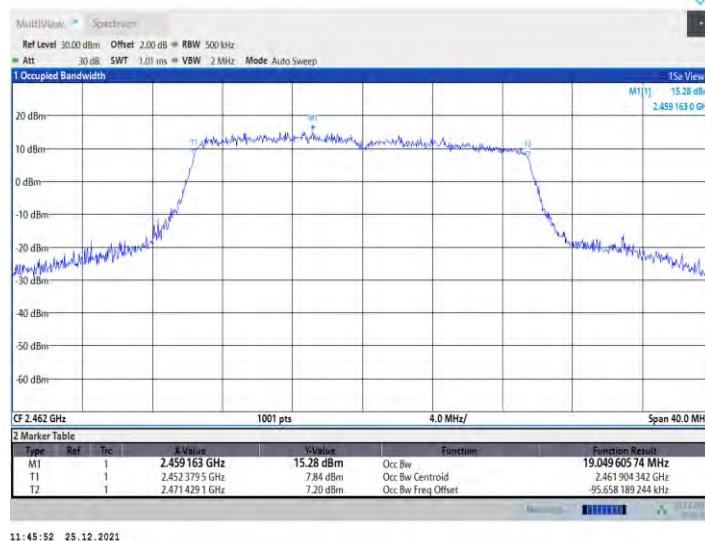
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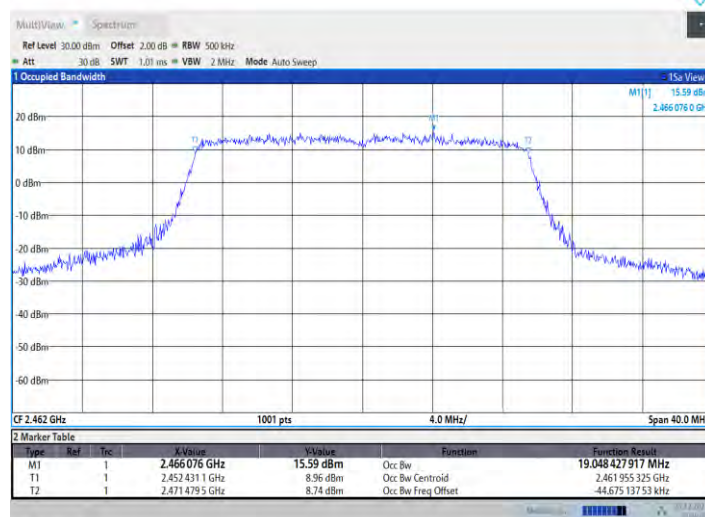
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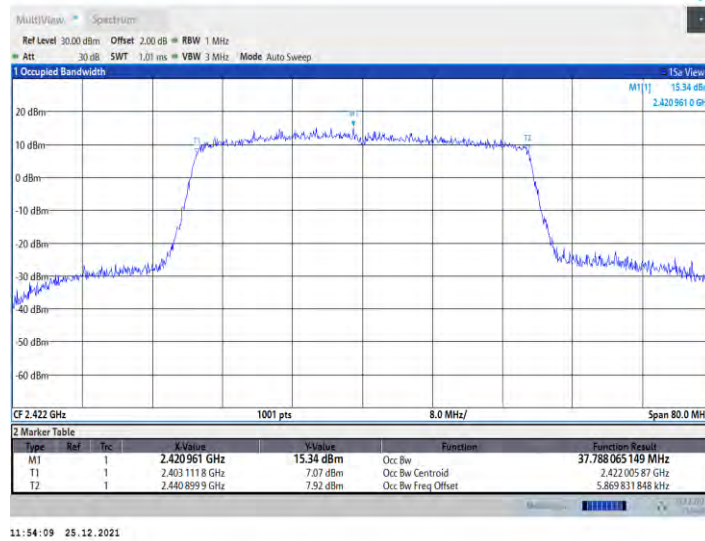
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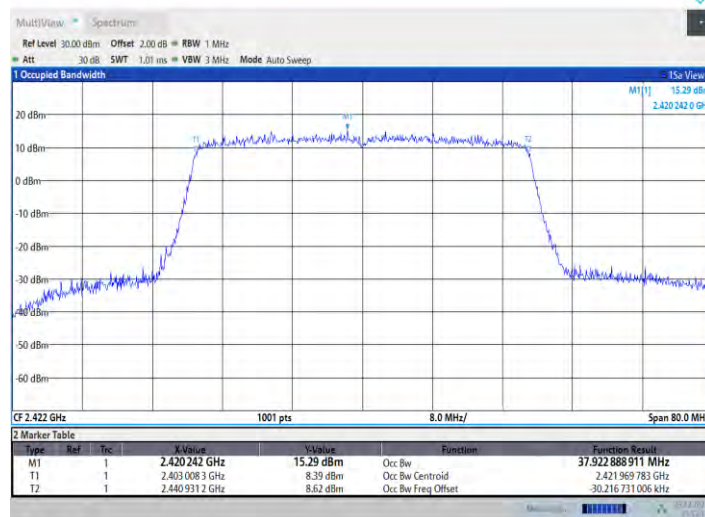
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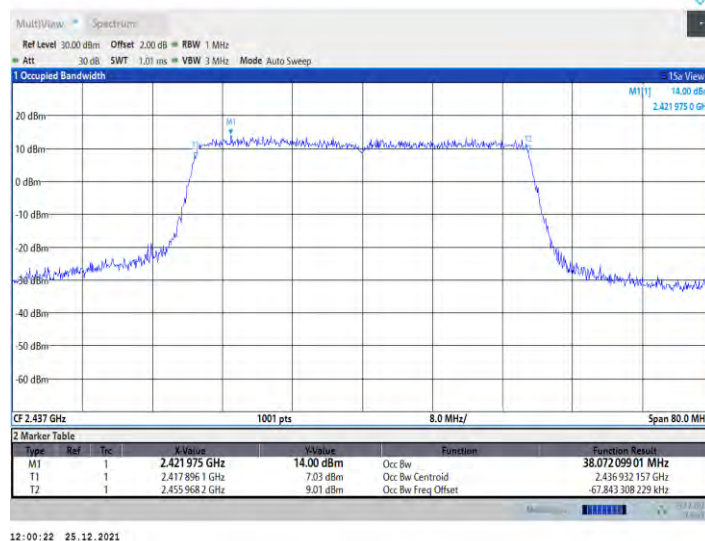
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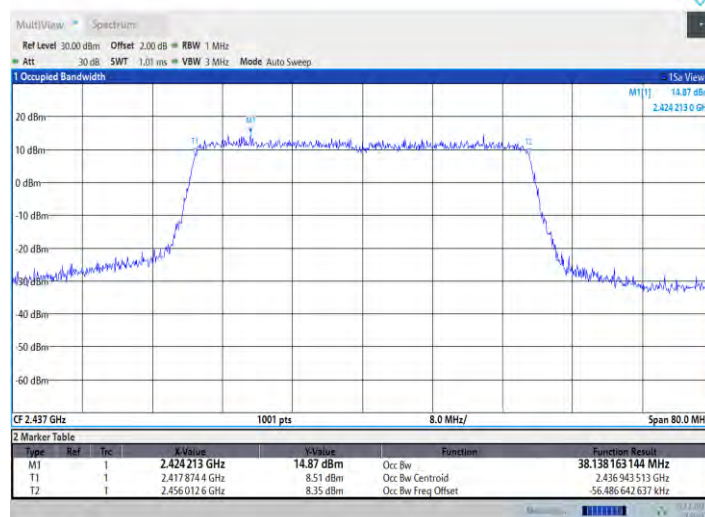
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11AX40MIMO_Ant16_2437



12:00:22 25.12.2021

11AX40MIMO_Ant18_2437



12:02:16 25.12.2021



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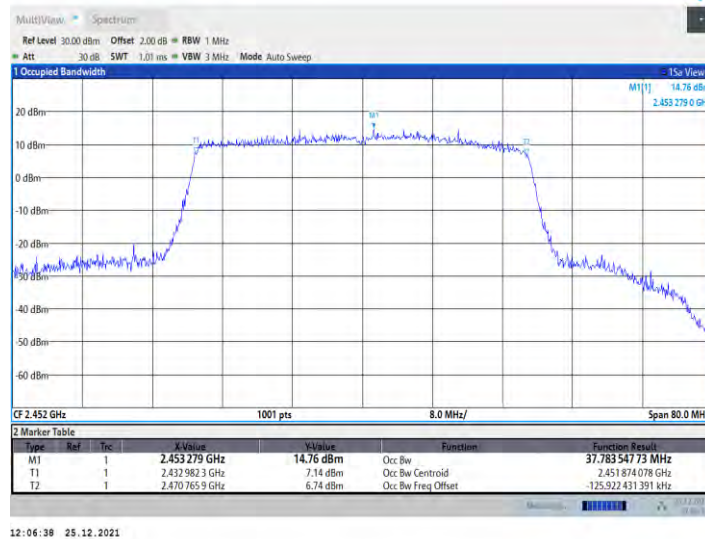
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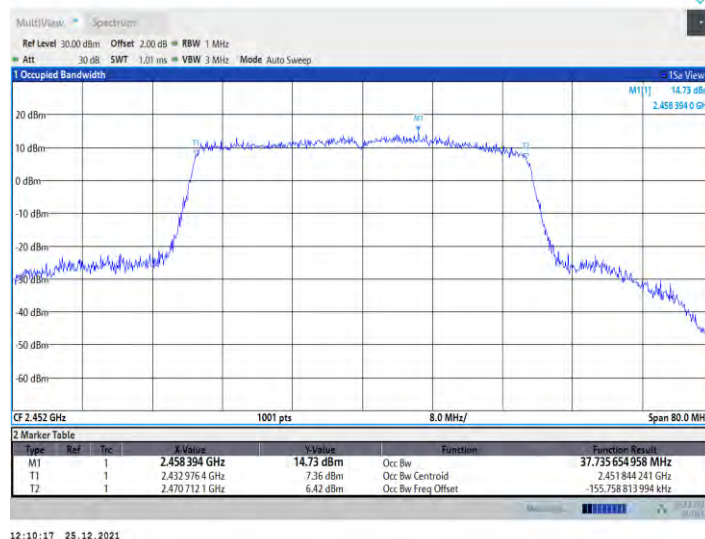
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11AX40MIMO_Ant16_2452



11AX40MIMO_Ant18_2452



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Maximum conducted output power Test Result Peak

ANT16+ANT17

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11B-CDD	Ant16	2412	---	21.07	≤30.00	PASS
	Ant17	2412	---	19.63	≤30.00	PASS
	total	2412	---	23.42	≤30.00	PASS
	Ant16	2437	---	20.99	≤30.00	PASS
	Ant17	2437	---	19.52	≤30.00	PASS
	total	2437	---	23.33	≤30.00	PASS
	Ant16	2462	---	21.03	≤30.00	PASS
	Ant17	2462	---	19.22	≤30.00	PASS
11G-CDD	total	2462	---	23.23	≤30.00	PASS
	Ant16	2412	---	24.67	≤30.00	PASS
	Ant17	2412	---	24.00	≤30.00	PASS
	total	2412	---	27.36	≤30.00	PASS
	Ant16	2437	---	24.78	≤30.00	PASS
	Ant17	2437	---	23.54	≤30.00	PASS
	total	2437	---	27.21	≤30.00	PASS
	Ant16	2462	---	24.86	≤30.00	PASS
11N20MIMO	Ant17	2462	---	23.67	≤30.00	PASS
	total	2462	---	27.32	≤30.00	PASS
	Ant16	2412	---	24.86	≤30.00	PASS
	Ant17	2412	---	23.89	≤30.00	PASS
	total	2412	---	27.41	≤30.00	PASS
	Ant16	2437	---	24.65	≤30.00	PASS
	Ant17	2437	---	23.76	≤30.00	PASS
	total	2437	---	27.24	≤30.00	PASS
11N40MIMO	Ant16	2462	---	24.76	≤30.00	PASS
	Ant17	2462	---	23.65	≤30.00	PASS
	total	2462	---	27.25	≤30.00	PASS
	Ant16	2422	---	23.59	≤30.00	PASS
	Ant17	2422	---	21.43	≤30.00	PASS
	total	2422	---	25.65	≤30.00	PASS
	Ant16	2437	---	23.45	≤30.00	PASS
	Ant17	2437	---	21.22	≤30.00	PASS
11AX20MIMO	total	2437	---	25.49	≤30.00	PASS
	Ant16	2452	---	23.37	≤30.00	PASS
	Ant17	2452	---	21.27	≤30.00	PASS
	total	2452	---	25.46	≤30.00	PASS
	Ant16	2412	---	24.87	≤30.00	PASS
	Ant17	2412	---	23.80	≤30.00	PASS
	total	2412	---	27.38	≤30.00	PASS
	Ant16	2437	---	24.67	≤30.00	PASS
11AX40MIMO	Ant17	2437	---	23.89	≤30.00	PASS
	total	2437	---	27.31	≤30.00	PASS
	Ant16	2462	---	24.76	≤30.00	PASS
	Ant17	2462	---	24.00	≤30.00	PASS
	total	2462	---	27.41	≤30.00	PASS
	Ant16	2422	---	24.21	≤30.00	PASS
	Ant17	2422	---	23.07	≤30.00	PASS
	total	2422	---	26.69	≤30.00	PASS



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	Ant16	2437	---	24.21	≤30.00	PASS
	Ant17	2437	---	23.12	≤30.00	PASS
	total	2437	---	26.71	≤30.00	PASS
	Ant16	2452	---	24.32	≤30.00	PASS
	Ant17	2452	---	23.10	≤30.00	PASS
	total	2452	---	26.76	≤30.00	PASS



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Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	---	24.90	≤30.00	PASS
			52Tone	RU37	---	25.06	≤30.00	PASS
			106Tone	RU53	---	25.27	≤30.00	PASS
	Ant17	2412	26Tone	RU0	---	23.87	≤30.00	PASS
			52Tone	RU37	---	24.80	≤30.00	PASS
			106Tone	RU53	---	24.63	≤30.00	PASS
	total	2412	26Tone	RU0	---	26.89	≤30.00	PASS
			52Tone	RU37	---	27.94	≤30.00	PASS
			106Tone	RU53	---	27.97	≤30.00	PASS
	Ant16	2437	26Tone	RU4	---	24.07	≤30.00	PASS
			52Tone	RU38	---	25.65	≤30.00	PASS
			106Tone	RU53	---	25.89	≤30.00	PASS
	Ant17	2437	26Tone	RU4	---	23.54	≤30.00	PASS
			52Tone	RU38	---	25.10	≤30.00	PASS
			106Tone	RU53	---	24.88	≤30.00	PASS
	total	2437	26Tone	RU4	---	26.82	≤30.00	PASS
			52Tone	RU38	---	28.39	≤30.00	PASS
			106Tone	RU53	---	28.42	≤30.00	PASS
	Ant16	2462	26Tone	RU8	---	24.68	≤30.00	PASS
			52Tone	RU40	---	24.87	≤30.00	PASS
			106Tone	RU54	---	25.20	≤30.00	PASS
	Ant17	2462	26Tone	RU8	---	23.51	≤30.00	PASS
			52Tone	RU40	---	24.87	≤30.00	PASS
			106Tone	RU54	---	24.69	≤30.00	PASS
	total	2462	26Tone	RU8	---	27.14	≤30.00	PASS
			52Tone	RU40	---	27.88	≤30.00	PASS
			106Tone	RU54	---	27.96	≤30.00	PASS
11AX40MIMO	Ant16	2422	242Tone	RU61	---	25.38	≤30.00	PASS
	Ant17	2422	242Tone	RU61	---	23.98	≤30.00	PASS
	total	2422	242Tone	RU61	---	27.75	≤30.00	PASS
	Ant16	2437	242Tone	RU61	---	24.16	≤30.00	PASS
	Ant17	2437	242Tone	RU61	---	24.23	≤30.00	PASS
	total	2437	242Tone	RU61	---	27.21	≤30.00	PASS
	Ant16	2452	242Tone	RU62	---	24.51	≤30.00	PASS
	Ant17	2452	242Tone	RU62	---	23.62	≤30.00	PASS
	total	2452	242Tone	RU62	---	27.10	≤30.00	PASS



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ANT16+ANT18

Test Mode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B-CDD	Ant16	2412	---	21.34	≤30	PASS
	Ant18	2412	---	21.26	≤30	PASS
	total	2412	---	24.30	≤30	PASS
	Ant16	2437	---	21.40	≤30	PASS
	Ant18	2437	---	21.64	≤30	PASS
	total	2437	---	24.50	≤30	PASS
	Ant16	2462	---	21.30	≤30	PASS
	Ant18	2462	---	21.55	≤30	PASS
	total	2462	---	24.40	≤30	PASS
11G-CDD	Ant16	2412	---	22.22	≤30	PASS
	Ant18	2412	---	23.72	≤30	PASS
	total	2412	---	26.00	≤30	PASS
	Ant16	2437	---	21.98	≤30	PASS
	Ant18	2437	---	23.66	≤30	PASS
	total	2437	---	25.90	≤30	PASS
	Ant16	2462	---	23.28	≤30	PASS
	Ant18	2462	---	23.55	≤30	PASS
	total	2462	---	26.40	≤30	PASS
11N20MIMO	Ant16	2412	---	22.35	≤30	PASS
	Ant18	2412	---	23.07	≤30	PASS
	total	2412	---	25.70	≤30	PASS
	Ant16	2437	---	23.11	≤30	PASS
	Ant18	2437	---	22.98	≤30	PASS
	total	2437	---	26.10	≤30	PASS
	Ant16	2462	---	21.90	≤30	PASS
	Ant18	2462	---	22.92	≤30	PASS
	total	2462	---	25.50	≤30	PASS
11N40MIMO	Ant16	2422	---	20.28	≤30	PASS
	Ant18	2422	---	22.66	≤30	PASS
	total	2422	---	25.30	≤30	PASS
11AX20MIMO	Ant16	2412	---	23.02	≤30	PASS
	Ant18	2412	---	23.68	≤30	PASS
	total	2412	---	26.40	≤30	PASS
	Ant16	2437	---	22.70	≤30	PASS
	Ant18	2437	---	23.61	≤30	PASS
	total	2437	---	26.20	≤30	PASS
	Ant16	2462	---	22.53	≤30	PASS
	Ant18	2462	---	23.46	≤30	PASS
	total	2462	---	26.00	≤30	PASS
11AX40MIMO	Ant16	2422	---	22.19	≤30	PASS
	Ant18	2422	---	22.63	≤30	PASS
	total	2422	---	25.40	≤30	PASS
	Ant16	2437	---	22.01	≤30	PASS
	Ant18	2437	---	21.97	≤30	PASS
	total	2437	---	25.00	≤30	PASS
	Ant16	2452	---	21.68	≤30	PASS
	Ant18	2452	---	21.69	≤30	PASS
	total	2452	---	24.70	≤30	PASS



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Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	---	25.47	≤30.00	PASS
			52Tone	RU37	---	24.53	≤30.00	PASS
			106Tone	RU53	---	24.99	≤30.00	PASS
	Ant18	2412	26Tone	RU0	---	19.09	≤30.00	PASS
			52Tone	RU37	---	24.67	≤30.00	PASS
			106Tone	RU53	---	24.93	≤30.00	PASS
	total	2412	26Tone	RU0	---	26.37	≤30.00	PASS
			52Tone	RU37	---	27.61	≤30.00	PASS
			106Tone	RU53	---	27.97	≤30.00	PASS
	Ant16	2437	26Tone	RU4	---	24.12	≤30.00	PASS
			52Tone	RU38	---	26.42	≤30.00	PASS
			106Tone	RU53	---	26.41	≤30.00	PASS
	Ant18	2437	26Tone	RU4	---	25.68	≤30.00	PASS
			52Tone	RU38	---	21.2	≤30.00	PASS
			106Tone	RU53	---	20.77	≤30.00	PASS
	total	2437	26Tone	RU4	---	27.98	≤30.00	PASS
			52Tone	RU38	---	27.56	≤30.00	PASS
			106Tone	RU53	---	27.46	≤30.00	PASS
	Ant16	2462	26Tone	RU8	---	25.29	≤30.00	PASS
			52Tone	RU40	---	25.63	≤30.00	PASS
			106Tone	RU54	---	25.93	≤30.00	PASS
	Ant18	2462	26Tone	RU8	---	18.9	≤30.00	PASS
			52Tone	RU40	---	20.4	≤30.00	PASS
			106Tone	RU54	---	20.53	≤30.00	PASS
	total	2462	26Tone	RU8	---	26.19	≤30.00	PASS
			52Tone	RU40	---	26.77	≤30.00	PASS
			106Tone	RU54	---	27.03	≤30.00	PASS
11AX40MIMO	Ant16	2422	242Tone	RU61	---	26	≤30.00	PASS
	Ant18	2422	242Tone	RU61	---	25	≤30.00	PASS
	total	2422	242Tone	RU61	---	28.54	≤30.00	PASS
	Ant16	2437	242Tone	RU61	---	24.58	≤30.00	PASS
	Ant18	2437	242Tone	RU61	---	25.41	≤30.00	PASS
	total	2437	242Tone	RU61	---	28.03	≤30.00	PASS
	Ant16	2452	242Tone	RU62	---	24.02	≤30.00	PASS
	Ant18	2452	242Tone	RU62	---	24.86	≤30.00	PASS
	total	2452	242Tone	RU62	---	27.47	≤30.00	PASS



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Maximum power spectral density Test Result

ANT16+ANT17

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant16	2412	-5.15	≤8.00	PASS
	Ant17	2412	-6.73	≤8.00	PASS
	total	2412	-2.86	≤8.00	PASS
	Ant16	2437	-5.30	≤8.00	PASS
	Ant17	2437	-6.65	≤8.00	PASS
	total	2437	-2.91	≤8.00	PASS
	Ant16	2462	-5.03	≤8.00	PASS
	Ant17	2462	-6.96	≤8.00	PASS
11G-CDD	total	2462	-2.88	≤8.00	PASS
	Ant16	2412	-5.48	≤8.00	PASS
	Ant17	2412	-7.80	≤8.00	PASS
	total	2412	-3.48	≤8.00	PASS
	Ant16	2437	-6.23	≤8.00	PASS
	Ant17	2437	-7.83	≤8.00	PASS
	total	2437	-3.95	≤8.00	PASS
	Ant16	2462	-6.51	≤8.00	PASS
11N20MIMO	Ant17	2462	-7.86	≤8.00	PASS
	total	2462	-4.12	≤8.00	PASS
	Ant16	2412	-5.01	≤8.00	PASS
	Ant17	2412	-7.54	≤8.00	PASS
	total	2412	-3.08	≤8.00	PASS
	Ant16	2437	-5.63	≤8.00	PASS
	Ant17	2437	-7.35	≤8.00	PASS
	total	2437	-3.40	≤8.00	PASS
11N40MIMO	Ant16	2462	-5.22	≤8.00	PASS
	Ant17	2462	-7.76	≤8.00	PASS
	total	2462	-3.30	≤8.00	PASS
	Ant16	2422	-11.64	≤8.00	PASS
	Ant17	2422	-12.86	≤8.00	PASS
	total	2422	-9.20	≤8.00	PASS
	Ant16	2437	-11.46	≤8.00	PASS
	Ant17	2437	-12.37	≤8.00	PASS
11AX20MIMO	total	2437	-8.88	≤8.00	PASS
	Ant16	2452	-11.73	≤8.00	PASS
	Ant17	2452	-12.51	≤8.00	PASS
	total	2452	-9.09	≤8.00	PASS
	Ant16	2412	-6.98	≤8.00	PASS
	Ant17	2412	-8.61	≤8.00	PASS
	total	2412	-4.71	≤8.00	PASS
	Ant16	2437	-8.42	≤8.00	PASS
11AX40MIMO	Ant17	2437	-9.06	≤8.00	PASS
	total	2437	-5.72	≤8.00	PASS
	Ant16	2462	-7.32	≤8.00	PASS
	Ant17	2462	-9.94	≤8.00	PASS
	total	2462	-5.43	≤8.00	PASS
	Ant16	2422	-9.57	≤8.00	PASS
	Ant17	2422	-12.23	≤8.00	PASS
	total	2422	-7.69	≤8.00	PASS



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	Ant16	2437	-11.02	≤8.00	PASS
	Ant17	2437	-11.86	≤8.00	PASS
	total	2437	-8.41	≤8.00	PASS
	Ant16	2452	-9.90	≤8.00	PASS
	Ant17	2452	-12.03	≤8.00	PASS
	total	2452	-7.83	≤8.00	PASS



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Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	---	24.90	≤30.00	PASS
			52Tone	RU37	---	25.06	≤30.00	PASS
			106Tone	RU53	---	25.27	≤30.00	PASS
	Ant17	2412	26Tone	RU0	---	23.87	≤30.00	PASS
			52Tone	RU37	---	24.80	≤30.00	PASS
			106Tone	RU53	---	24.63	≤30.00	PASS
	total	2412	26Tone	RU0	---	26.89	≤30.00	PASS
			52Tone	RU37	---	27.94	≤30.00	PASS
			106Tone	RU53	---	27.97	≤30.00	PASS
	Ant16	2437	26Tone	RU4	---	24.07	≤30.00	PASS
			52Tone	RU38	---	25.65	≤30.00	PASS
			106Tone	RU53	---	25.89	≤30.00	PASS
	Ant17	2437	26Tone	RU4	---	23.54	≤30.00	PASS
			52Tone	RU38	---	25.10	≤30.00	PASS
			106Tone	RU53	---	24.88	≤30.00	PASS
	total	2437	26Tone	RU4	---	26.82	≤30.00	PASS
			52Tone	RU38	---	28.39	≤30.00	PASS
			106Tone	RU53	---	28.42	≤30.00	PASS
	Ant16	2462	26Tone	RU8	---	24.68	≤30.00	PASS
			52Tone	RU40	---	24.87	≤30.00	PASS
			106Tone	RU54	---	25.20	≤30.00	PASS
	Ant17	2462	26Tone	RU8	---	23.51	≤30.00	PASS
			52Tone	RU40	---	24.87	≤30.00	PASS
			106Tone	RU54	---	24.69	≤30.00	PASS
	total	2462	26Tone	RU8	---	27.14	≤30.00	PASS
			52Tone	RU40	---	27.88	≤30.00	PASS
			106Tone	RU54	---	27.96	≤30.00	PASS
11AX40MIMO	Ant16	2422	242Tone	RU61	---	25.38	≤30.00	PASS
	Ant17	2422	242Tone	RU61	---	23.98	≤30.00	PASS
	total	2422	242Tone	RU61	---	27.75	≤30.00	PASS
	Ant16	2437	242Tone	RU61	---	24.16	≤30.00	PASS
	Ant17	2437	242Tone	RU61	---	24.23	≤30.00	PASS
	total	2437	242Tone	RU61	---	27.21	≤30.00	PASS
	Ant16	2452	242Tone	RU62	---	24.51	≤30.00	PASS
	Ant17	2452	242Tone	RU62	---	23.62	≤30.00	PASS
	total	2452	242Tone	RU62	---	27.10	≤30.00	PASS



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ANT16+ANT18

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant16	2412	-4.44	≤8	PASS
	Ant18	2412	-5.37	≤8	PASS
	total	2412	-1.87	≤8	PASS
	Ant16	2437	-4.52	≤8	PASS
	Ant18	2437	-4.63	≤8	PASS
	total	2437	-1.56	≤8	PASS
	Ant16	2462	-4.67	≤8	PASS
	Ant18	2462	-4.55	≤8	PASS
	total	2462	-1.60	≤8	PASS
11G-CDD	Ant16	2412	-8.09	≤8	PASS
	Ant18	2412	-6.99	≤8	PASS
	total	2412	-4.49	≤8	PASS
	Ant16	2437	-8.44	≤8	PASS
	Ant18	2437	-6.93	≤8	PASS
	total	2437	-4.61	≤8	PASS
	Ant16	2462	-6.95	≤8	PASS
	Ant18	2462	-6.85	≤8	PASS
	total	2462	-3.89	≤8	PASS
11N20MIMO	Ant16	2412	-6.51	≤8	PASS
	Ant18	2412	-5.52	≤8	PASS
	total	2412	-2.98	≤8	PASS
	Ant16	2437	-6.33	≤8	PASS
	Ant18	2437	-6.58	≤8	PASS
	total	2437	-3.44	≤8	PASS
	Ant16	2462	-6.99	≤8	PASS
	Ant18	2462	-6.42	≤8	PASS
	total	2462	-3.69	≤8	PASS
11N40MIMO	Ant16	2422	-11.73	≤8	PASS
	Ant18	2422	-12.15	≤8	PASS
	total	2422	-8.92	≤8	PASS
	Ant16	2437	-12.50	≤8	PASS
	Ant18	2437	-11.76	≤8	PASS
	total	2437	-9.10	≤8	PASS
	Ant16	2452	-12.10	≤8	PASS
	Ant18	2452	-10.81	≤8	PASS
	total	2452	-8.40	≤8	PASS
11AX20MIMO	Ant16	2412	-7.60	≤8	PASS
	Ant18	2412	-7.10	≤8	PASS
	total	2412	-4.33	≤8	PASS
	Ant16	2437	-7.73	≤8	PASS
	Ant18	2437	-7.33	≤8	PASS
	total	2437	-4.52	≤8	PASS
	Ant16	2462	-7.28	≤8	PASS
	Ant18	2462	-7.26	≤8	PASS
	total	2462	-4.26	≤8	PASS
11AX40MIMO	Ant16	2422	-11.04	≤8	PASS
	Ant18	2422	-11.17	≤8	PASS
	total	2422	-8.09	≤8	PASS
	Ant16	2437	-11.98	≤8	PASS
	Ant18	2437	-11.93	≤8	PASS
	total	2437	-8.94	≤8	PASS
	Ant16	2452	-12.02	≤8	PASS



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Ant18	2452	-11.89	≤8	PASS
total	2452	-8.94	≤8	PASS

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11AX20MIMO	Ant16	2412	26Tone	RU0	0.76	≤8.00	PASS
			52Tone	RU37	-3.31	≤8.00	PASS
			106Tone	RU53	-5.00	≤8.00	PASS
	Ant18	2412	26Tone	RU0	-5.52	≤8.00	PASS
			52Tone	RU37	-3.33	≤8.00	PASS
			106Tone	RU53	-5.52	≤8.00	PASS
	total	2412	26Tone	RU0	1.68	≤8.00	PASS
			52Tone	RU37	-0.31	≤8.00	PASS
			106Tone	RU53	-2.24	≤8.00	PASS
	Ant16	2437	26Tone	RU4	-0.55	≤8.00	PASS
			52Tone	RU38	-1.21	≤8.00	PASS
			106Tone	RU53	-4.48	≤8.00	PASS
	Ant18	2437	26Tone	RU4	0.71	≤8.00	PASS
			52Tone	RU38	-7.30	≤8.00	PASS
			106Tone	RU53	-10.23	≤8.00	PASS
	total	2437	26Tone	RU4	3.14	≤8.00	PASS
			52Tone	RU38	-0.25	≤8.00	PASS
			106Tone	RU53	-3.46	≤8.00	PASS
	Ant18	2462	26Tone	RU8	-5.72	≤8.00	PASS
			52Tone	RU40	-7.66	≤8.00	PASS
			106Tone	RU54	-9.30	≤8.00	PASS
	total	2462	26Tone	RU8	1.09	≤8.00	PASS
			52Tone	RU40	-1.47	≤8.00	PASS
			106Tone	RU54	-3.21	≤8.00	PASS
11AX40MIMO	Ant16	2422	242Tone	RU61	-6.83	≤8.00	PASS
	Ant18	2422	242Tone	RU61	-7.89	≤8.00	PASS
	total	2422	242Tone	RU61	-4.32	≤8.00	PASS
	Ant16	2437	242Tone	RU61	-8.39	≤8.00	PASS
	Ant18	2437	242Tone	RU61	-8.28	≤8.00	PASS
	total	2437	242Tone	RU61	-5.32	≤8.00	PASS
	Ant16	2452	242Tone	RU62	-8.58	≤8.00	PASS
	Ant18	2452	242Tone	RU62	-8.90	≤8.00	PASS
	total	2452	242Tone	RU62	-5.73	≤8.00	PASS



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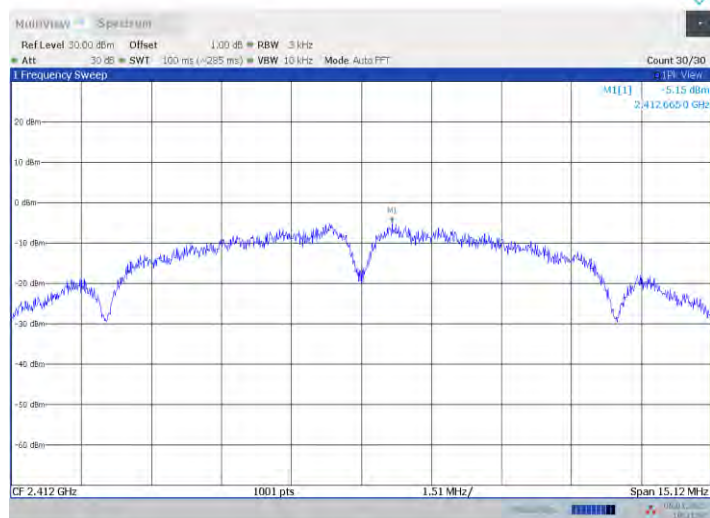
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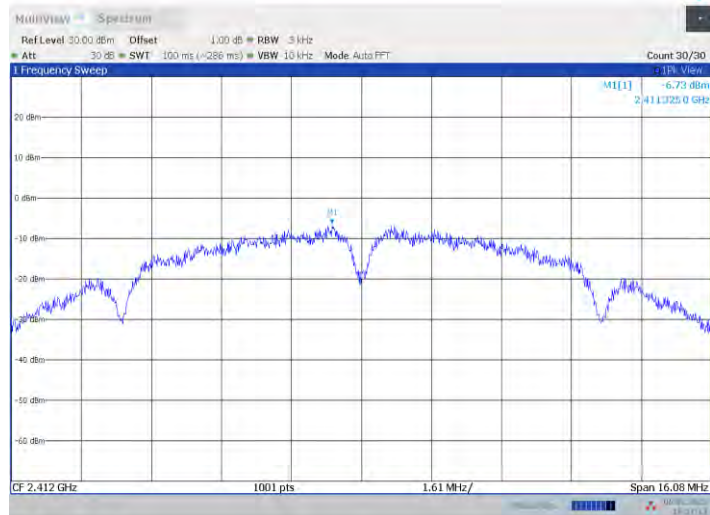
Test Graphs

ANT16+ANT17

11B-CDD_Ant16_2412



11B-CDD_Ant17_2412



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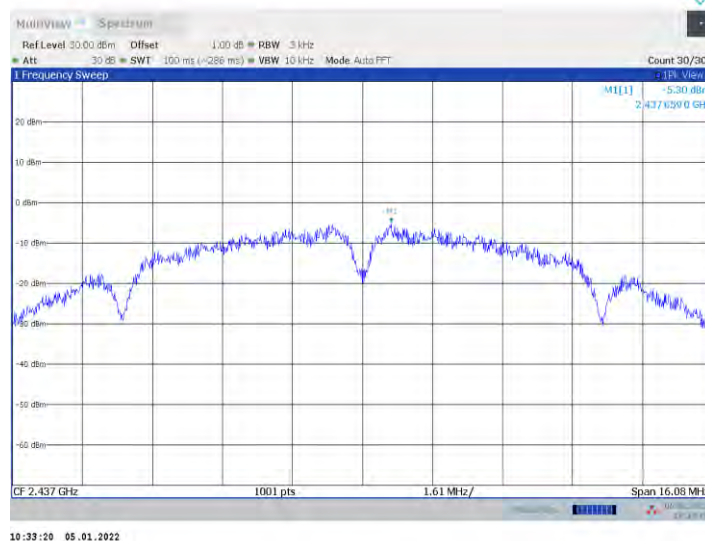
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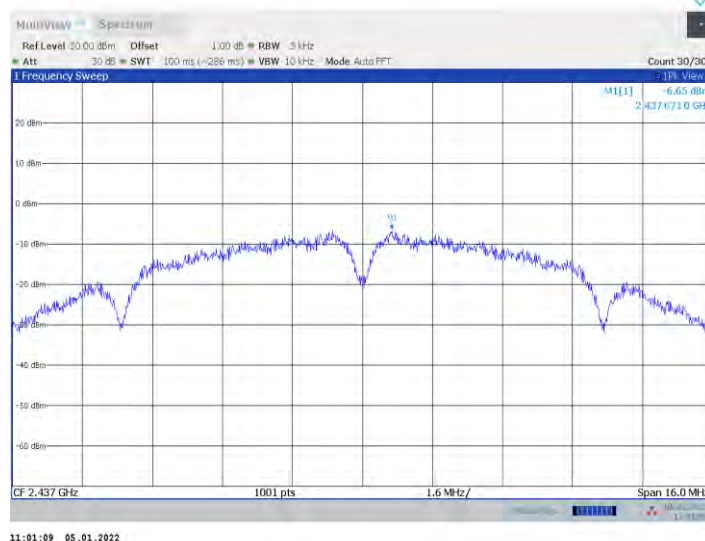
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11B-CDD_Ant16_2437



11B-CDD_Ant17_2437



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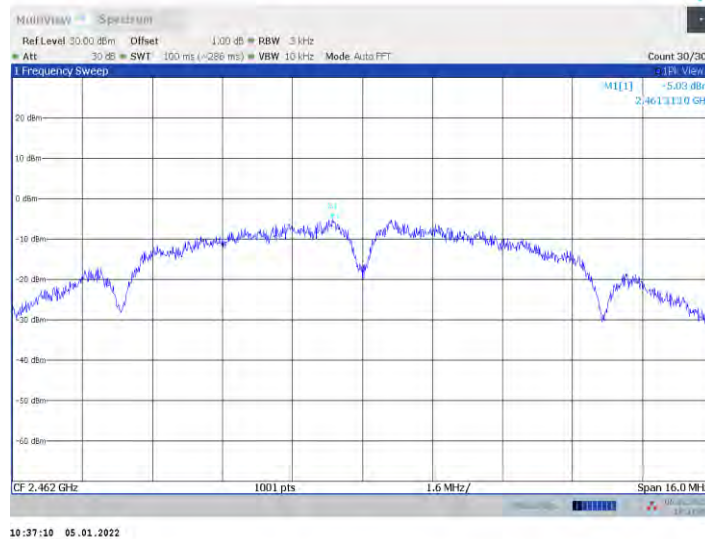
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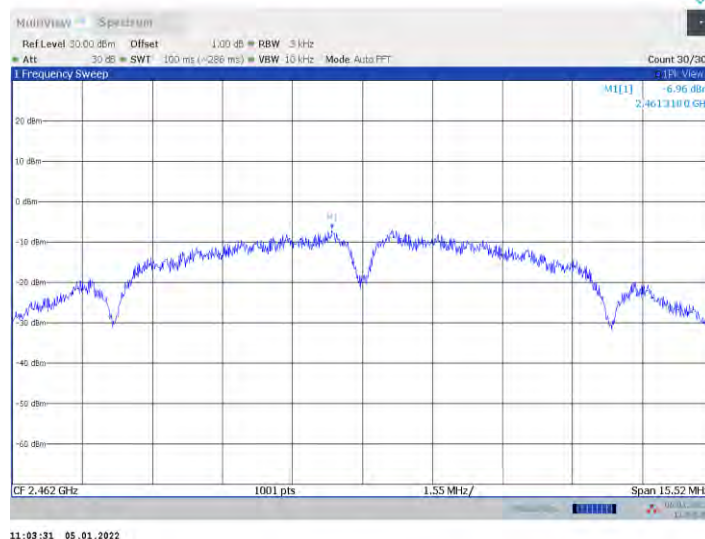
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