

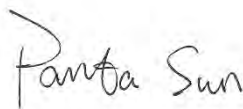
TEST REPORT

Application No.: SEWM2209000178RG
Applicant: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer: Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer: 11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
EUT Description: 5G CPE
Model No.: F-NR300
Trade Mark: Four-Faith
FCC ID: 2ALUW-FNR300
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/09/26
Date of Test: 2022/10/31 to 2022/12/09
Date of Issue: 2022/12/22

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

Authorized Signature:




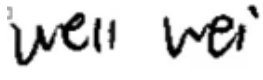
Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/22		Original

Prepared By		 <hr/> (Ives Cheng) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.

3.2 Test Location

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

3.3 Test Facility

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

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

EUT Description:	5G CPE	
Model No.:	F-NR300	
Trade Mark:	Four-Faith	
Hardware Version:	V1.5	
Software Version:	FNR300-NA_A311294	
IMEI:	RF Conducted	862424050044030
	RSE & AC power line	862424030041085
Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):	2412MHz to 2462MHz
	802.11n(HT40)/ax(HE40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40): 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g
	<input checked="" type="checkbox"/> MIMO	802.11n/ax: 4Tx & 4Rx
	<input type="checkbox"/> Diversity	802.11b/g : 4Tx & 4Rx
Antenna Type:	PCB Antenna	
Antenna Gain:	2.64dBi(Ant1); 3.09dBi(Ant2); 2.61dBi(Ant3); 2.00dBi(Ant4)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



Operation Frequency of each channel (802.11b/g/n HT20 /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	12
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)



4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is PCB Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna are 2.64dBi(Ant1),3.09dBi(Ant2),2.61dBi(Ant3) and 2.00dBi(Ant4).*</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

- For power measurements on IEEE 802.11 devices:

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

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

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

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

- If transmit signals are correlated, then

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

- If all transmit signals are completely uncorrelated, then

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

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

Power Limit Reduction =

The EUT supports CDD System.

ANT Gain1 (dBi)	ANT Gain2 (dBi)	ANT Gain3 (dBi)	ANT Gain4 (dBi)	Power DG (dBi)	PSD DG (dBi)	Power Limit Reduction(dB)	PSD Limit Reduction(dB)
2.64	3.09	2.61	2.00	2.60	8.61	0	2.61

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

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain > 6dBi) =8.61 - 6 =2.61



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4.2 AC Power Line Conducted Emissions

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



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



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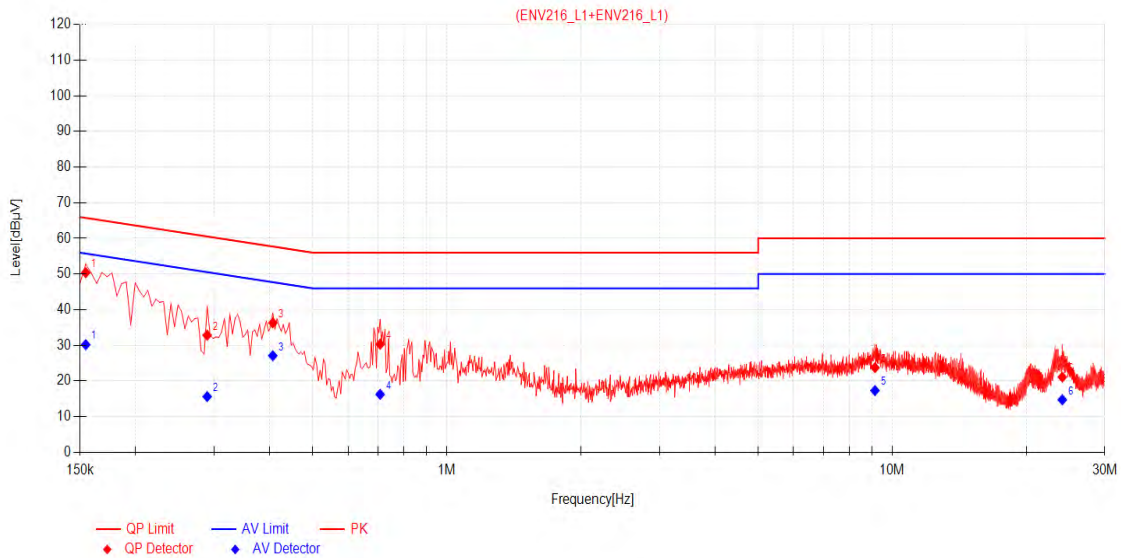
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Measurement Data

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.

Phase:	Line
--------	------



Final Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	39.74	50.38	65.75	15.37	19.55	30.19	55.75	25.56	PASS
2	0.2895	10.66	22.19	32.85	60.54	27.69	4.97	15.63	50.54	34.91	PASS
3	0.4065	10.51	25.83	36.34	57.72	21.38	16.59	27.10	47.72	20.62	PASS
4	0.7080	10.57	19.77	30.34	56.00	25.66	5.68	16.25	46.00	29.75	PASS
5	9.1455	10.65	13.09	23.74	60.00	36.26	6.67	17.32	50.00	32.68	PASS
6	24.0900	10.31	10.79	21.10	60.00	38.90	4.43	14.74	50.00	35.26	PASS

Remark:

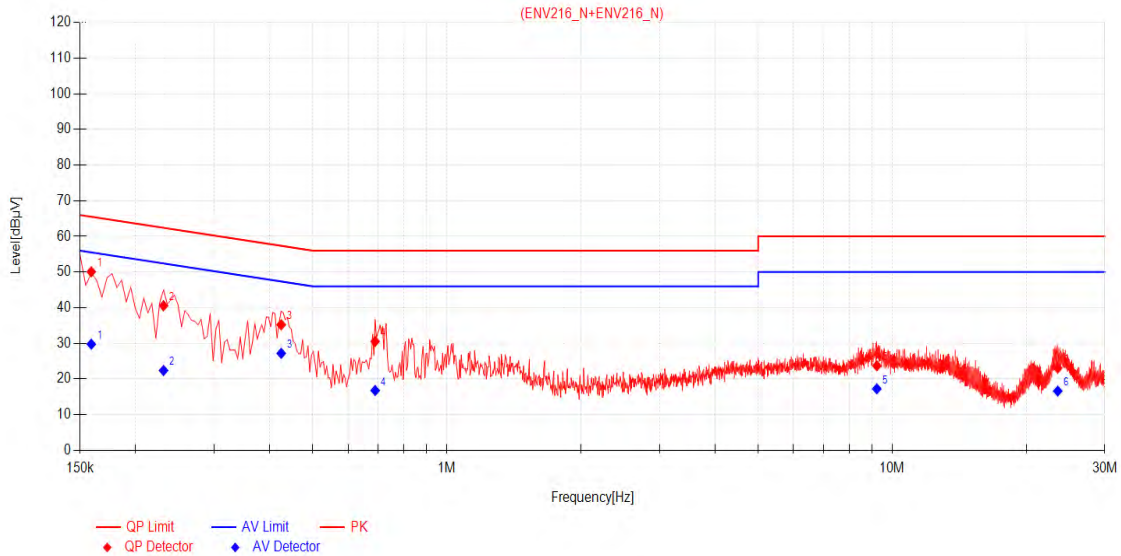
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	10.72	39.36	50.08	65.52	15.44	19.05	29.77	55.52	25.75	PASS
2	0.2310	10.70	29.86	40.56	62.41	21.85	11.69	22.39	52.41	30.02	PASS
3	0.4245	10.83	24.39	35.22	57.36	22.14	16.36	27.19	47.36	20.17	PASS
4	0.6900	10.80	19.74	30.54	56.00	25.46	5.98	16.78	46.00	29.22	PASS
5	9.2355	10.64	13.08	23.72	60.00	36.28	6.61	17.25	50.00	32.75	PASS
6	23.5320	10.49	12.56	23.05	60.00	36.95	6.14	16.63	50.00	33.37	PASS

Remark:

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



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Report No.: SEWM2209000178RG03

Rev.: 01

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4.3 Duty Cycle

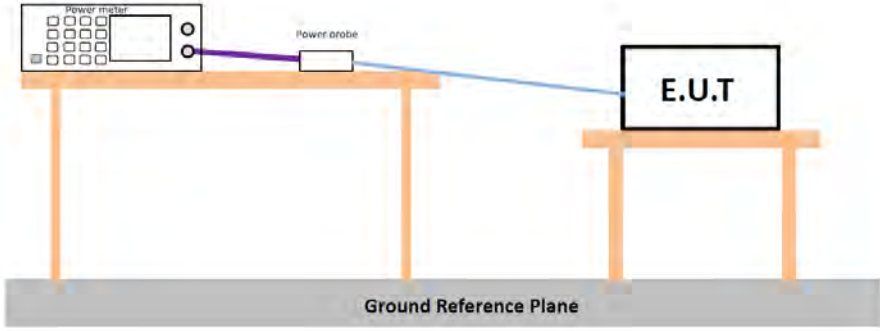
The detailed test data see: **Appendix**



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4.4 Conducted Output Power

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



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



4.6 Power Spectral Density

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



4.7 Band-edge for RF Conducted Emissions

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



4.8 RF Conducted Spurious Emissions

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



4.9 Radiated Spurious Emissions

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



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Test Setup:

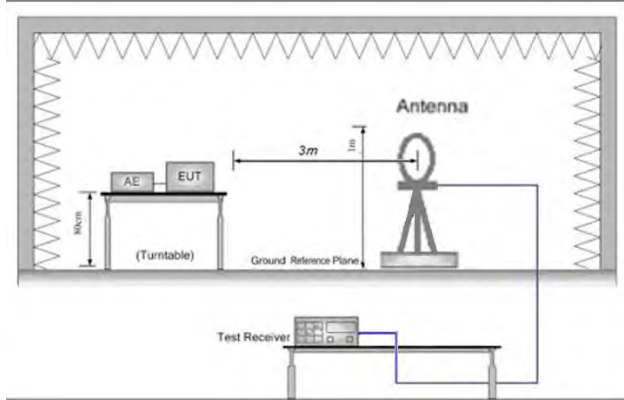


Figure 1. Below 30MHz

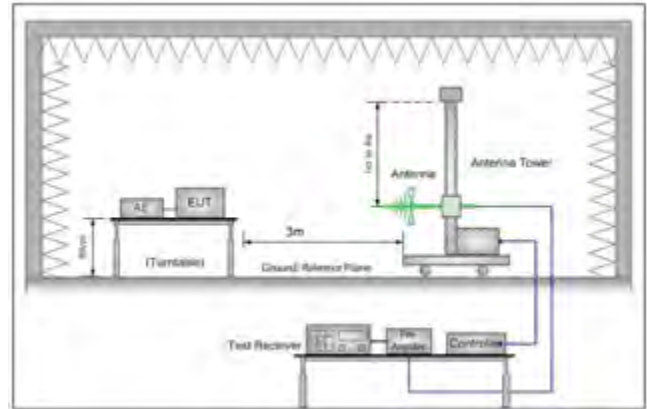


Figure 2. 30MHz to 1GHz

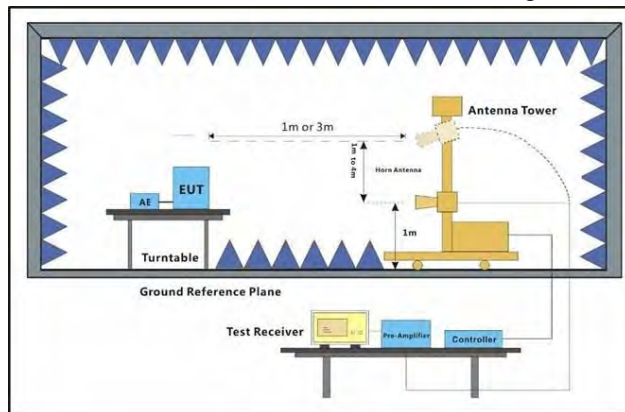


Figure 3. Above 1 GHz

Test Procedure:

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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq [3 \cdot \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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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:

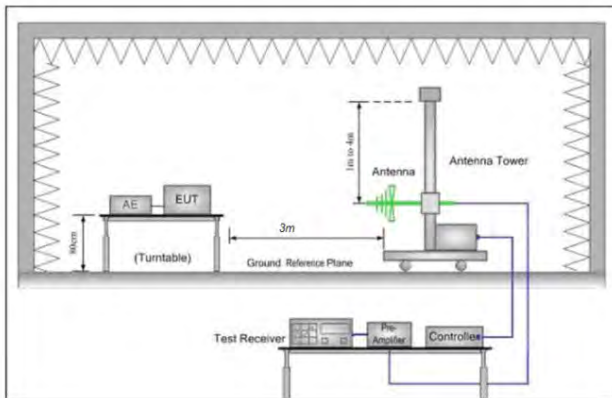


Figure 1. 30MHz to 1GHz

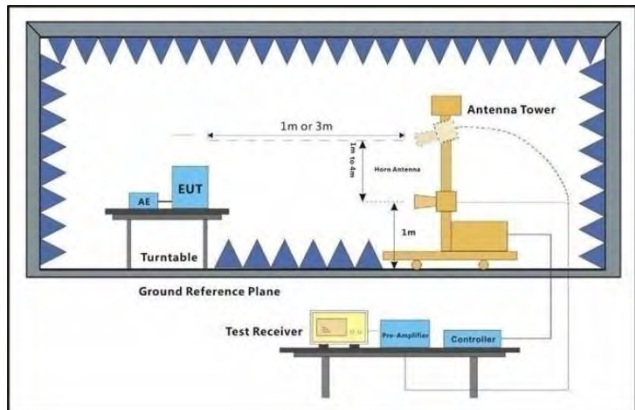


Figure 2. Above 1 GHz



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



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



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

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

Remark:

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



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04 2022/11/23	2022/12/03 2023/11/22
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/04 2022/11/23	2022/12/03 2023/11/22
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
				2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE V4.0.0.1	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	8.64	2407.92	2416.56	≥0.5	PASS
		2437	8.08	2432.96	2441.04	≥0.5	PASS
		2462	7.64	2458.40	2466.04	≥0.5	PASS
11g	Ant1	2412	15.12	2404.44	2419.56	≥0.5	PASS
		2437	15.24	2429.36	2444.60	≥0.5	PASS
		2462	15.20	2454.40	2469.60	≥0.5	PASS
11n20MIMO	Ant1	2412	15.16	2404.48	2419.64	≥0.5	PASS
	Ant2	2412	16.40	2403.24	2419.64	≥0.5	PASS
	Ant3	2412	16.16	2404.44	2420.60	≥0.5	PASS
	Ant4	2412	16.44	2404.44	2420.88	≥0.5	PASS
	Ant1	2437	15.76	2429.44	2445.20	≥0.5	PASS
	Ant2	2437	16.60	2428.84	2445.44	≥0.5	PASS
	Ant3	2437	15.80	2429.40	2445.20	≥0.5	PASS
	Ant4	2437	15.76	2429.44	2445.20	≥0.5	PASS
	Ant1	2462	16.40	2453.80	2470.20	≥0.5	PASS
	Ant2	2462	16.40	2453.20	2469.60	≥0.5	PASS
	Ant3	2462	16.36	2453.20	2469.56	≥0.5	PASS
	Ant4	2462	16.36	2453.20	2469.56	≥0.5	PASS
11n40MIMO	Ant1	2422	35.28	2404.40	2439.68	≥0.5	PASS
	Ant2	2422	36.48	2403.84	2440.32	≥0.5	PASS
	Ant3	2422	36.48	2403.84	2440.32	≥0.5	PASS
	Ant4	2422	32.72	2406.96	2439.68	≥0.5	PASS
	Ant1	2437	35.28	2419.40	2454.68	≥0.5	PASS
	Ant2	2437	35.28	2419.40	2454.68	≥0.5	PASS
	Ant3	2437	35.28	2419.40	2454.68	≥0.5	PASS
	Ant4	2437	28.96	2421.96	2450.92	≥0.5	PASS
	Ant1	2452	35.28	2434.40	2469.68	≥0.5	PASS
	Ant2	2452	29.04	2434.40	2463.44	≥0.5	PASS
	Ant3	2452	29.04	2434.40	2463.44	≥0.5	PASS
	Ant4	2452	35.28	2434.40	2469.68	≥0.5	PASS
11ax20MIMO	Ant1	2412	17.60	2402.92	2420.52	≥0.5	PASS
	Ant2	2412	17.40	2402.92	2420.32	≥0.5	PASS
	Ant3	2412	18.40	2402.68	2421.08	≥0.5	PASS
	Ant4	2412	17.20	2402.88	2420.08	≥0.5	PASS
	Ant1	2437	18.80	2427.68	2446.48	≥0.5	PASS
	Ant2	2437	18.88	2427.64	2446.52	≥0.5	PASS
	Ant3	2437	18.92	2427.68	2446.60	≥0.5	PASS
	Ant4	2437	18.40	2428.16	2446.56	≥0.5	PASS
	Ant1	2462	18.84	2452.48	2471.32	≥0.5	PASS
	Ant2	2462	18.92	2452.40	2471.32	≥0.5	PASS
	Ant3	2462	18.92	2452.40	2471.32	≥0.5	PASS
	Ant4	2462	18.88	2452.44	2471.32	≥0.5	PASS
11ax40MIMO	Ant1	2422	37.68	2403.44	2441.12	≥0.5	PASS
	Ant2	2422	36.96	2403.68	2440.64	≥0.5	PASS
	Ant3	2422	38.16	2403.04	2441.20	≥0.5	PASS



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	Ant4	2422	38.16	2403.04	2441.20	≥0.5	PASS
	Ant1	2437	38.08	2418.12	2456.20	≥0.5	PASS
	Ant2	2437	36.80	2419.16	2455.96	≥0.5	PASS
	Ant3	2437	36.64	2419.40	2456.04	≥0.5	PASS
	Ant4	2437	37.12	2418.92	2456.04	≥0.5	PASS
	Ant1	2452	35.28	2434.40	2469.68	≥0.5	PASS
	Ant2	2452	35.28	2434.40	2469.68	≥0.5	PASS
	Ant3	2452	35.28	2434.40	2469.68	≥0.5	PASS
	Ant4	2452	35.28	2434.40	2469.68	≥0.5	PASS

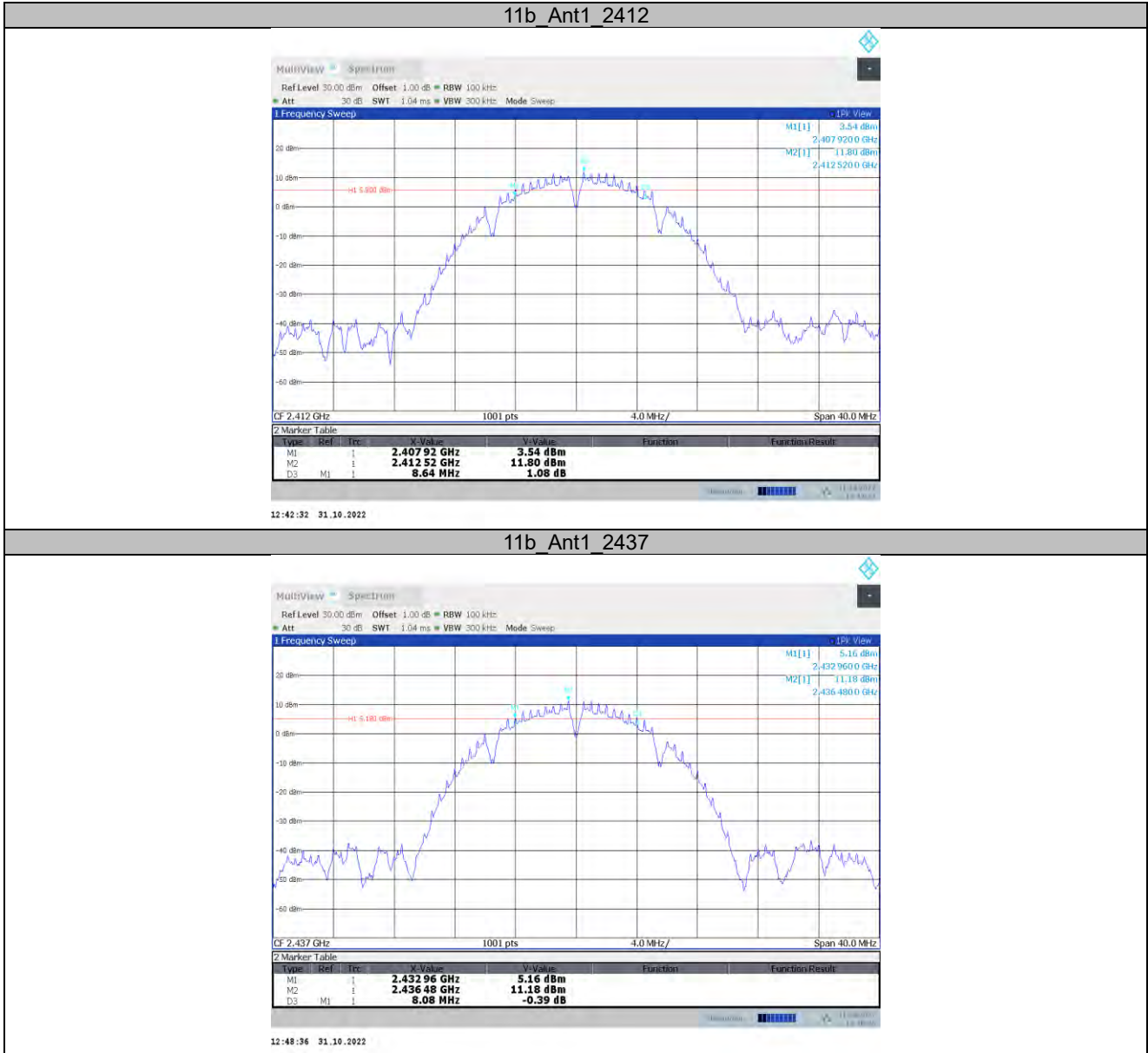


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Test Graphs



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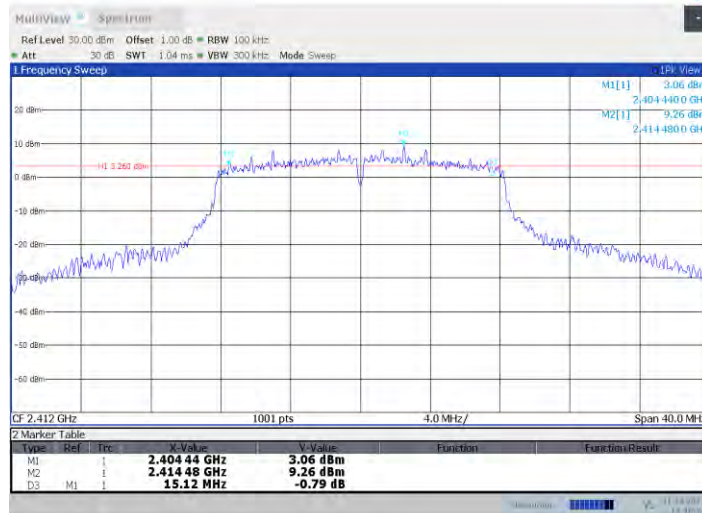
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11b Ant1 2462



13:11:34 31.10.2022

11g Ant1 2412



14:46:54 31.10.2022



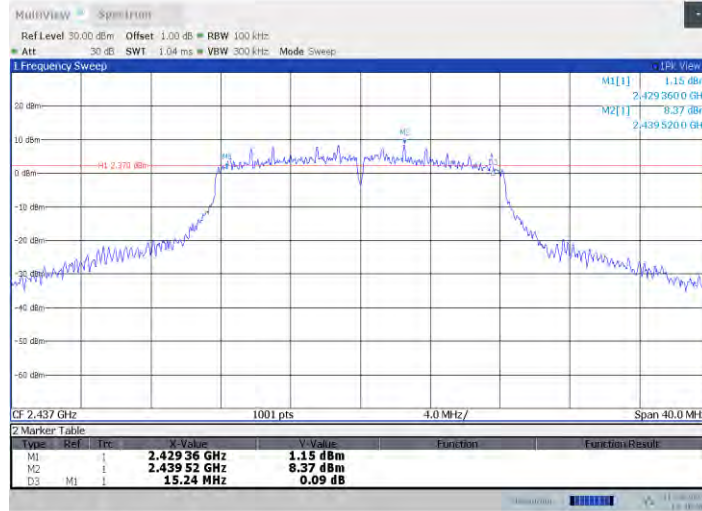
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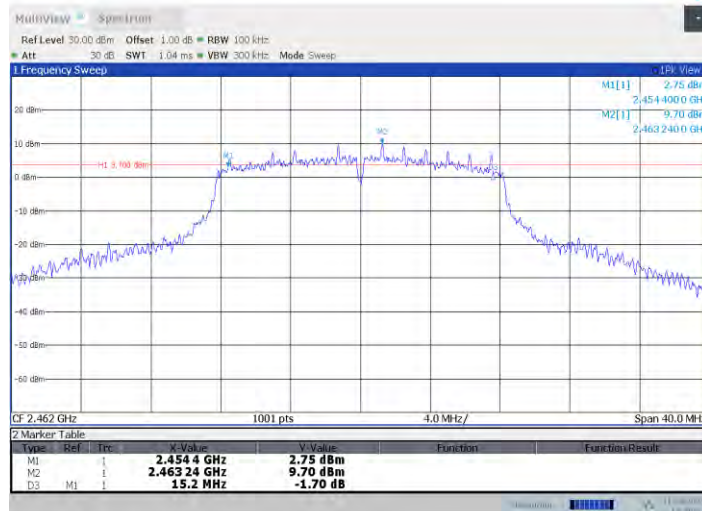
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11g Ant1 2462



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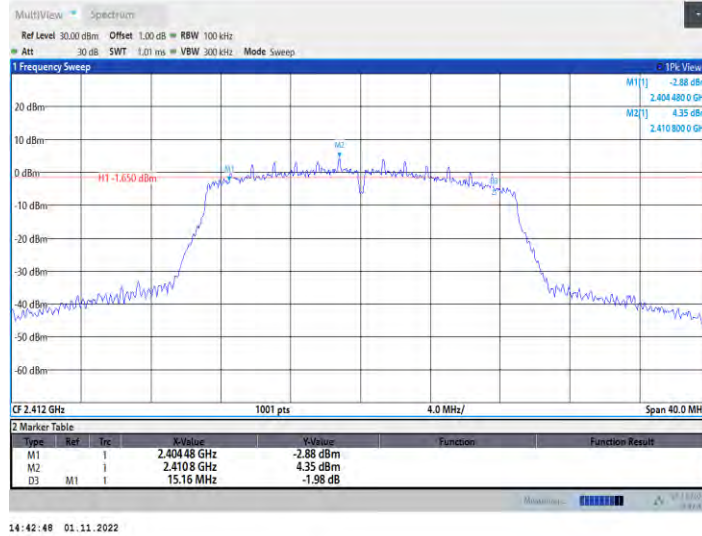
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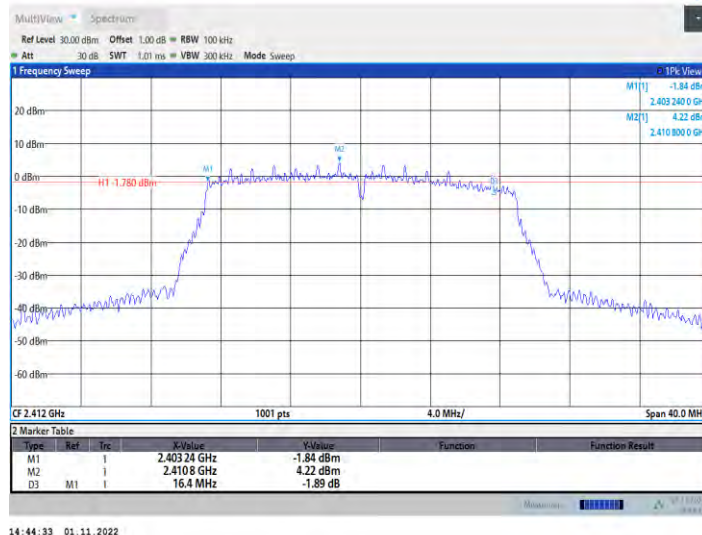
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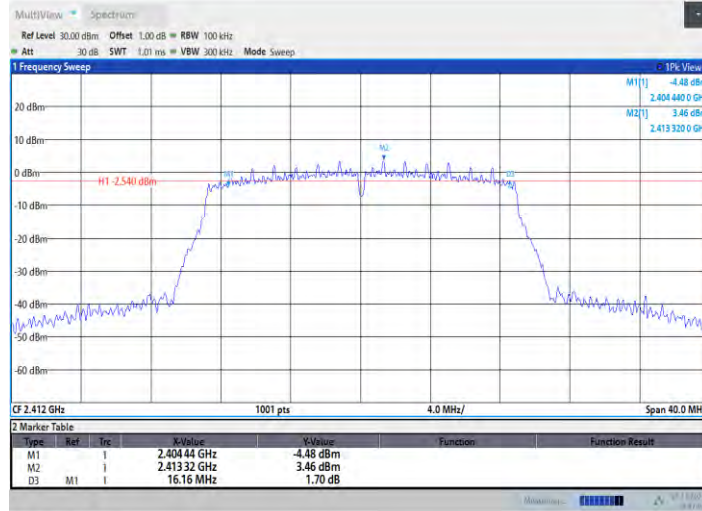
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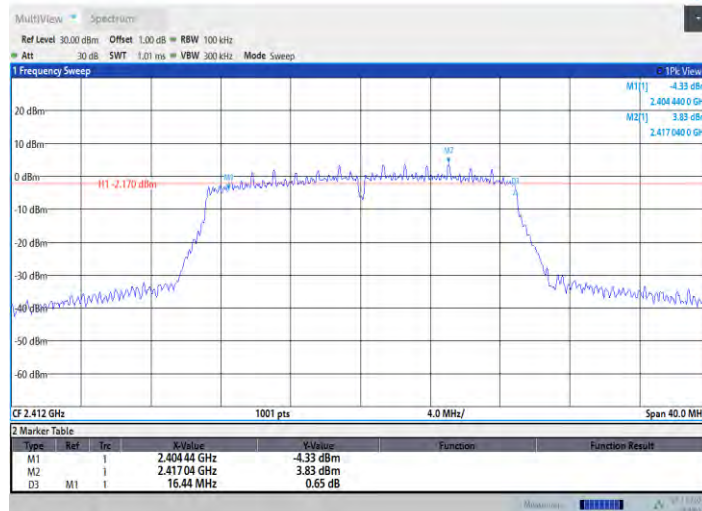
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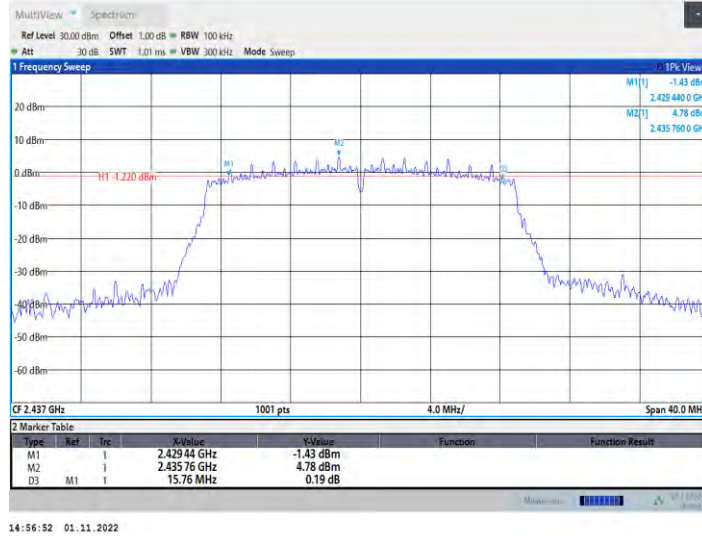
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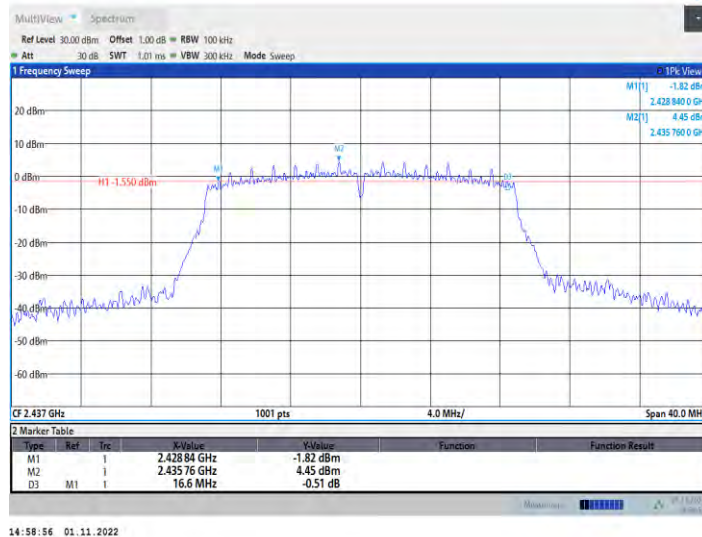
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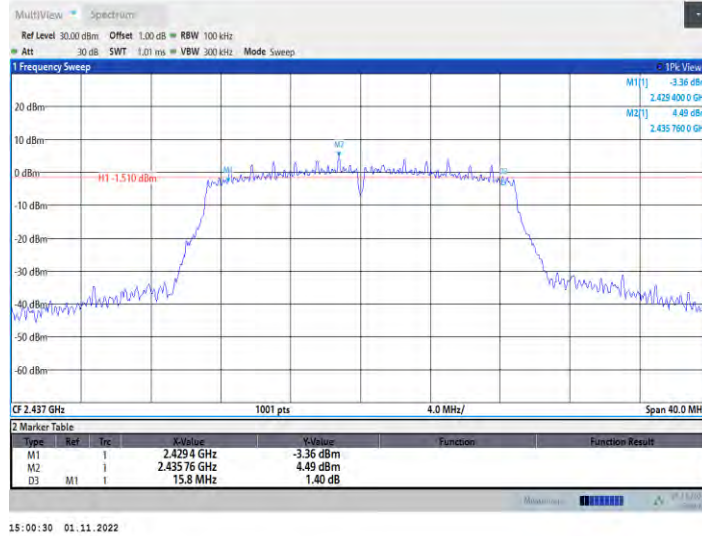


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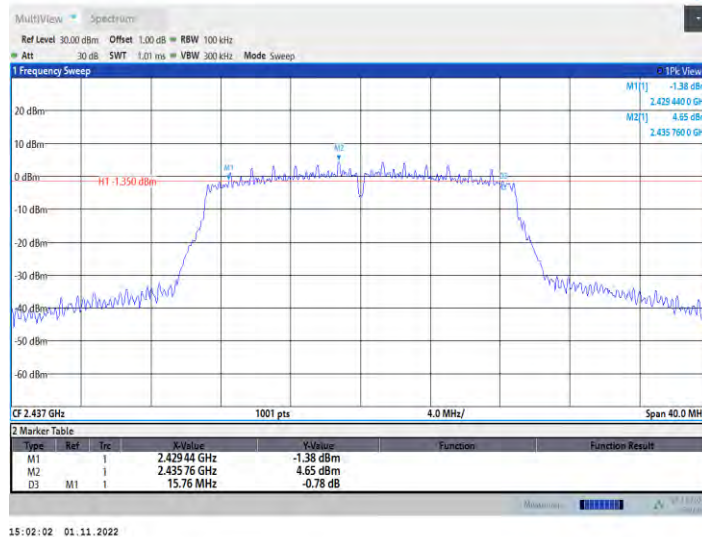
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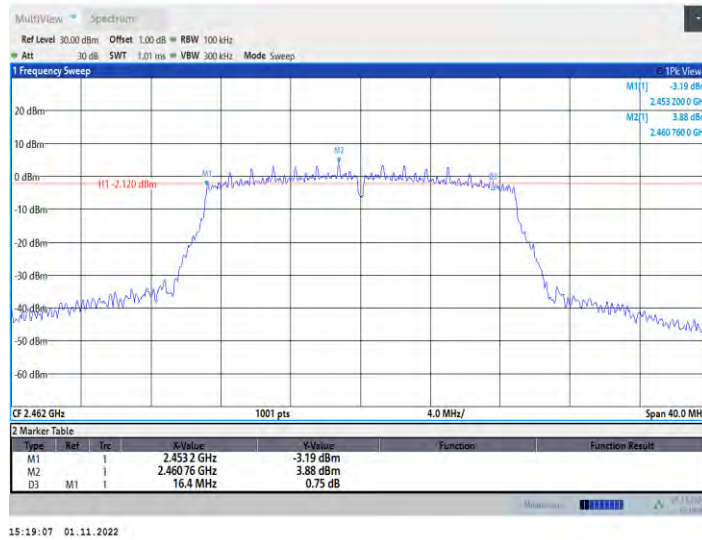
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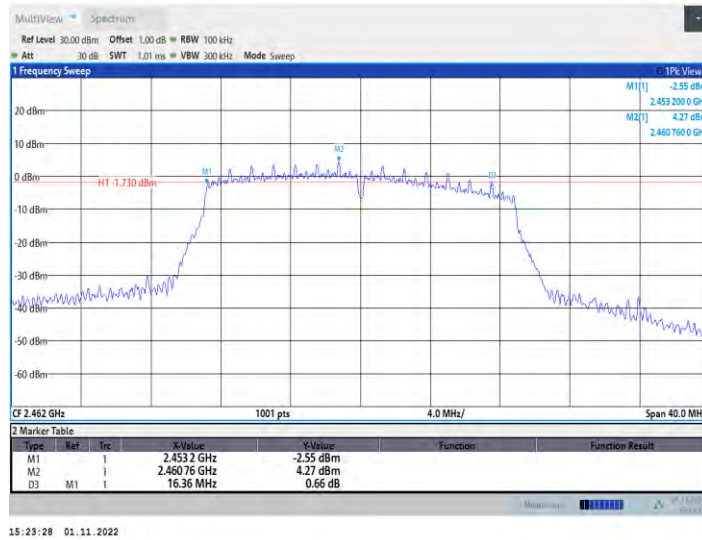
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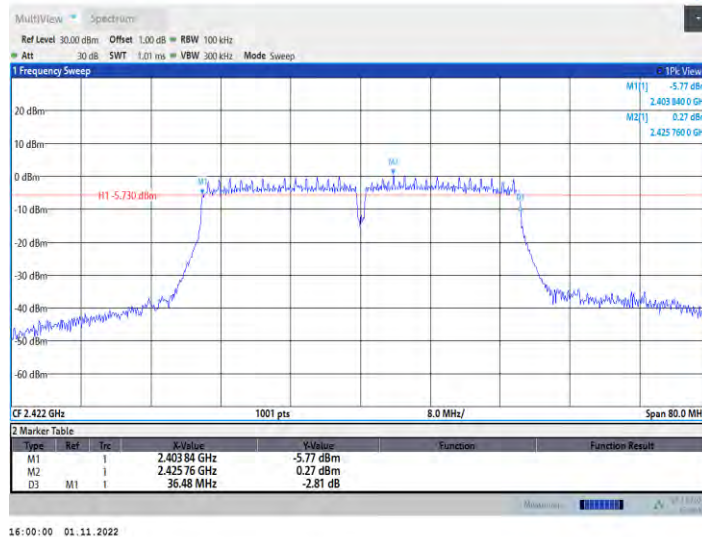
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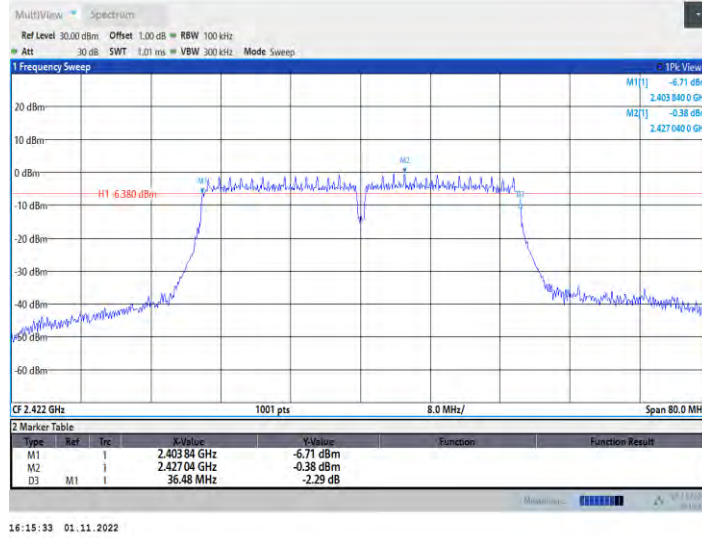


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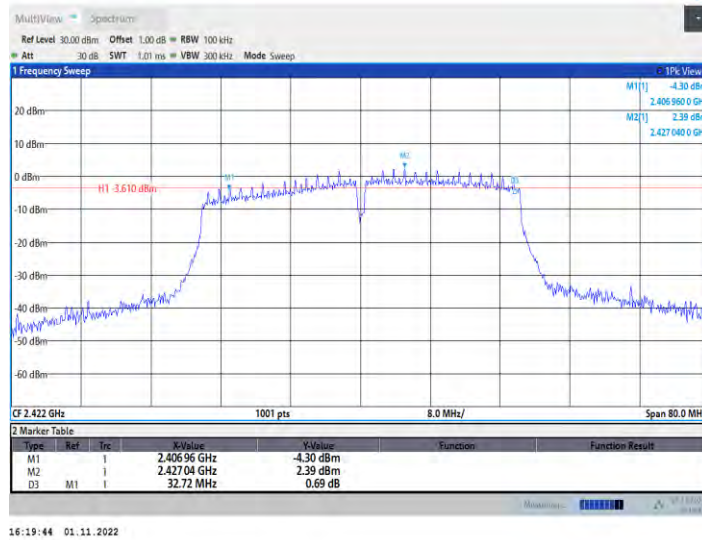
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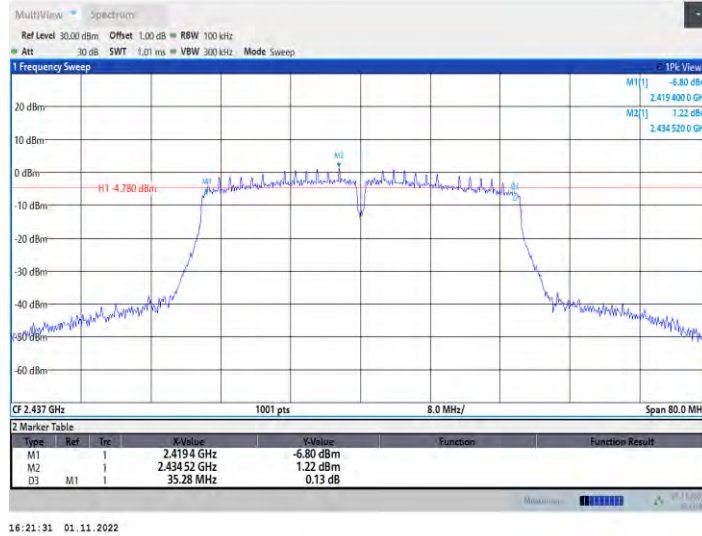


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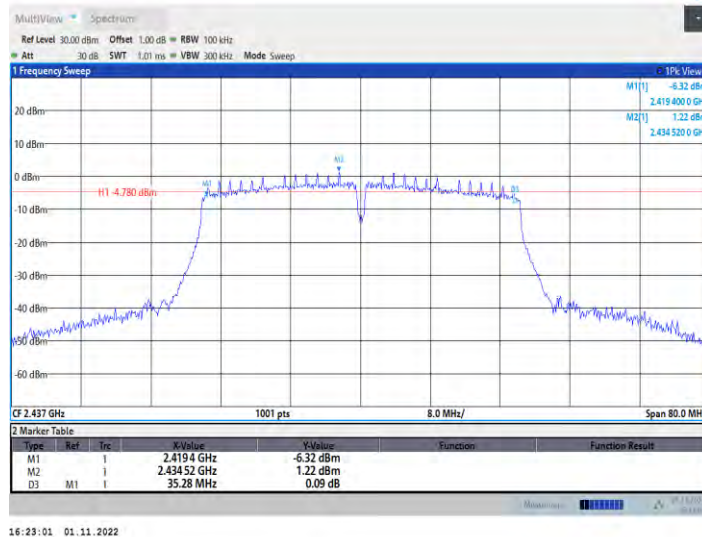
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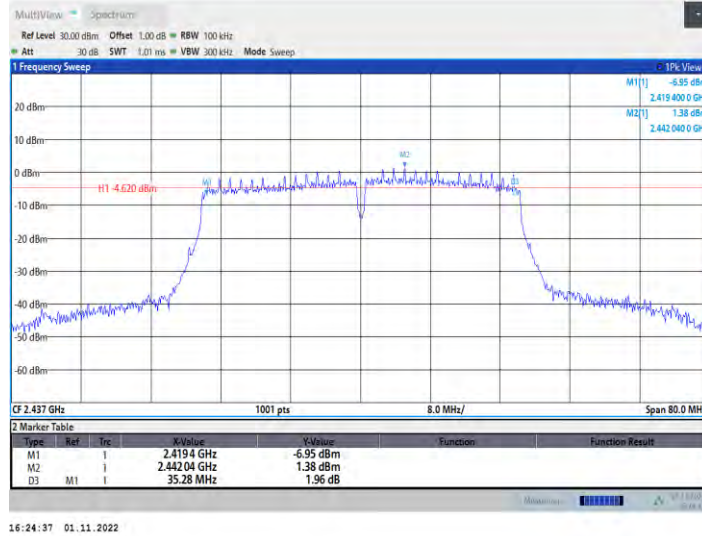


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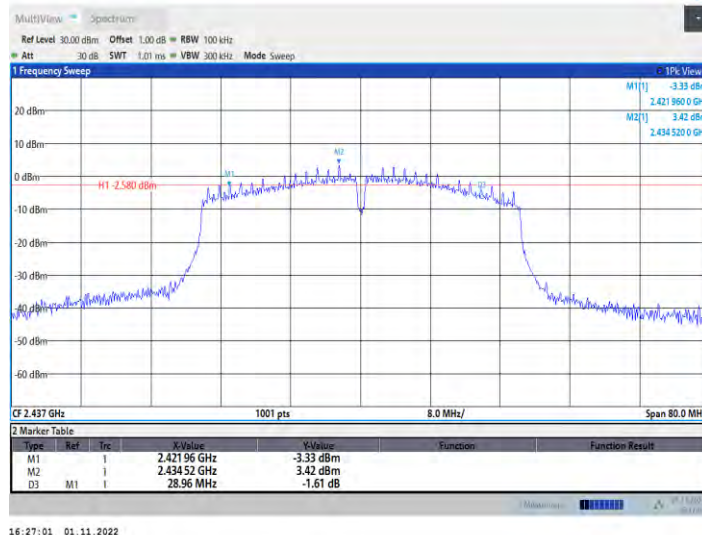
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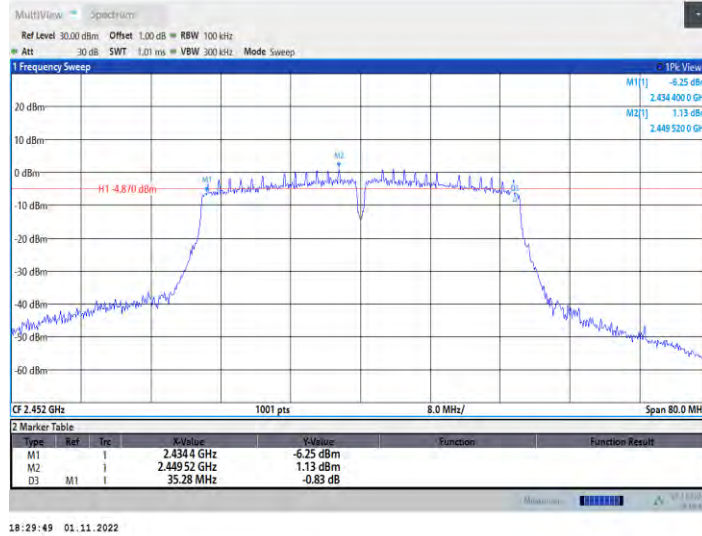


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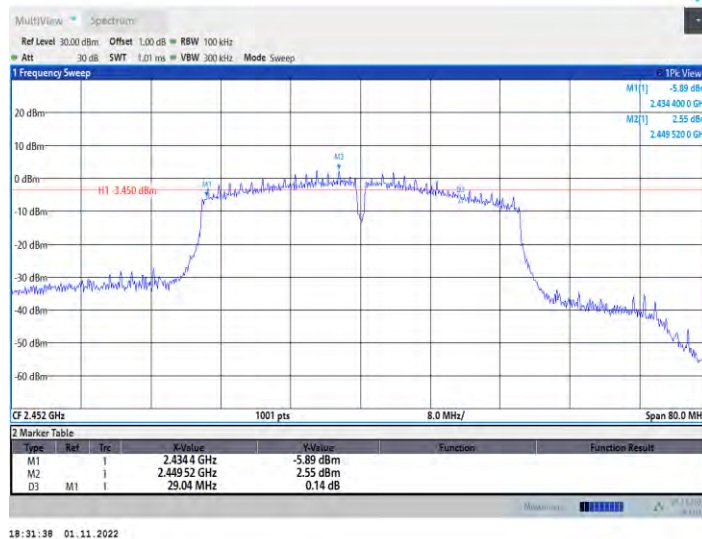
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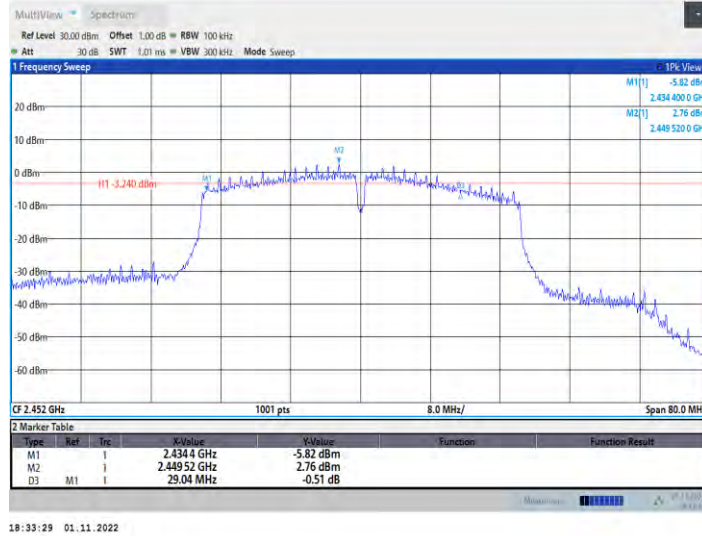
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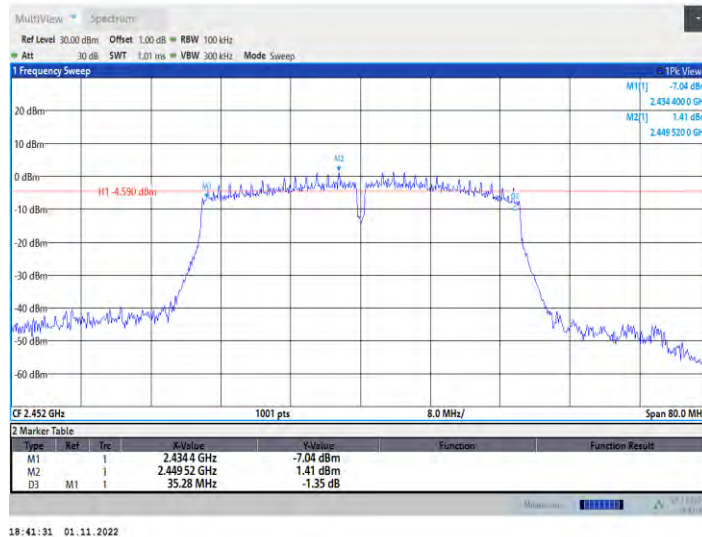
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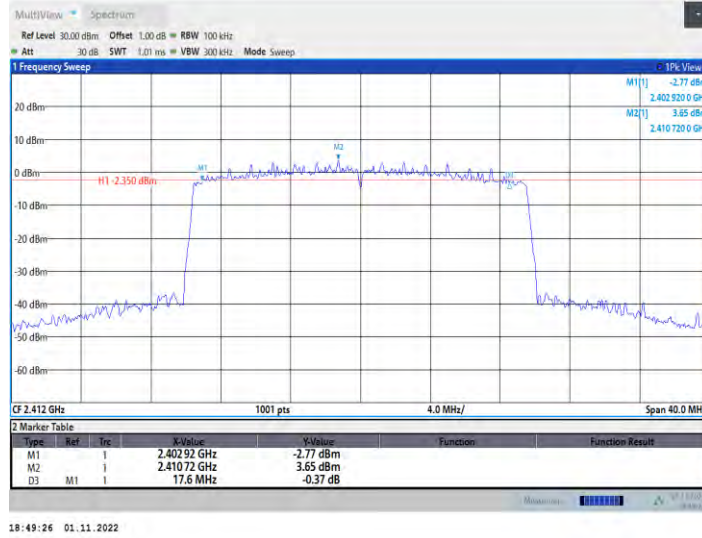


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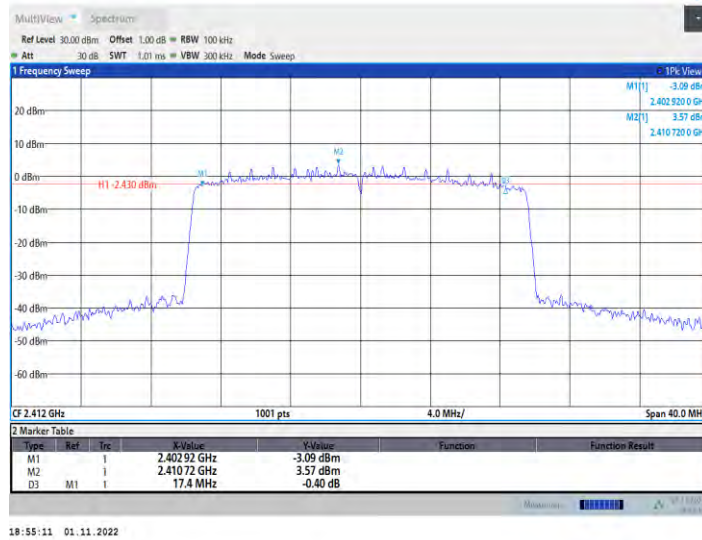
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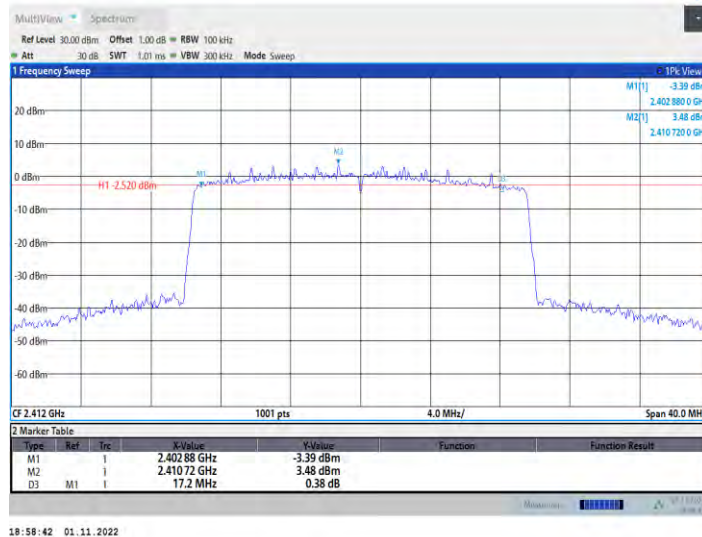
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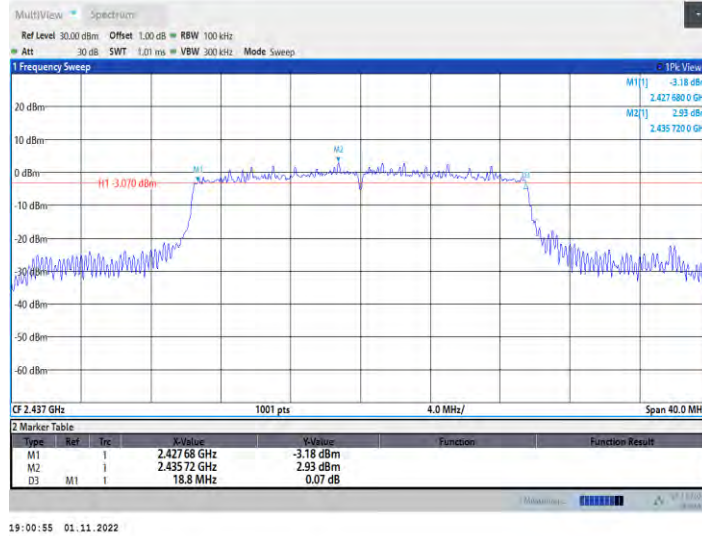
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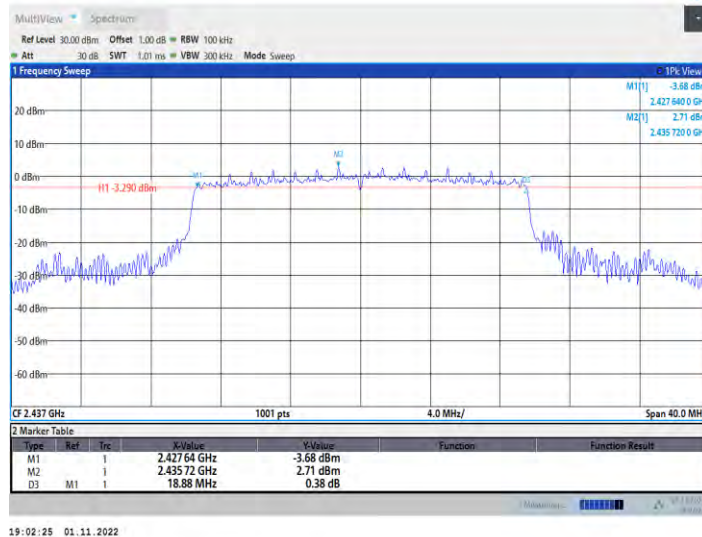
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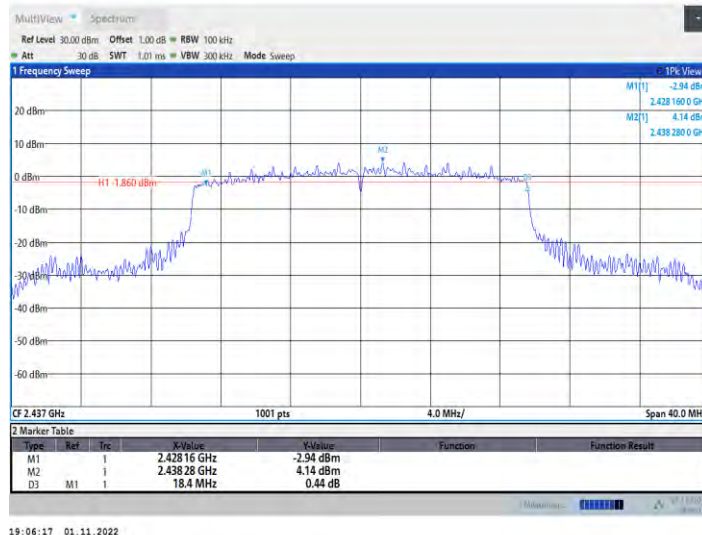
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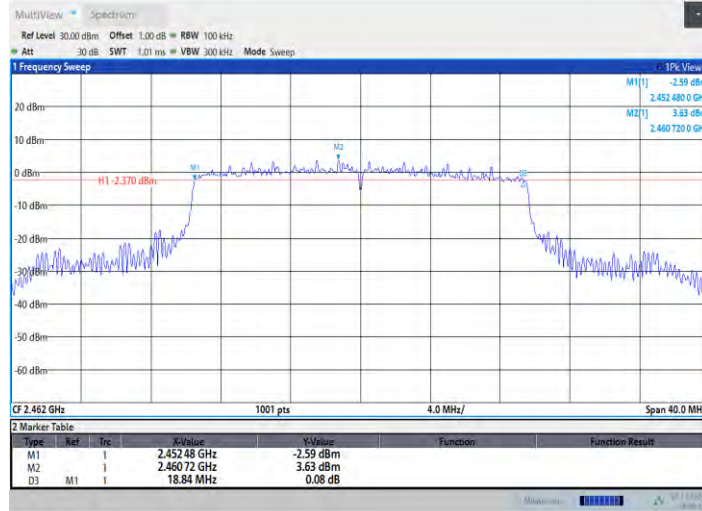
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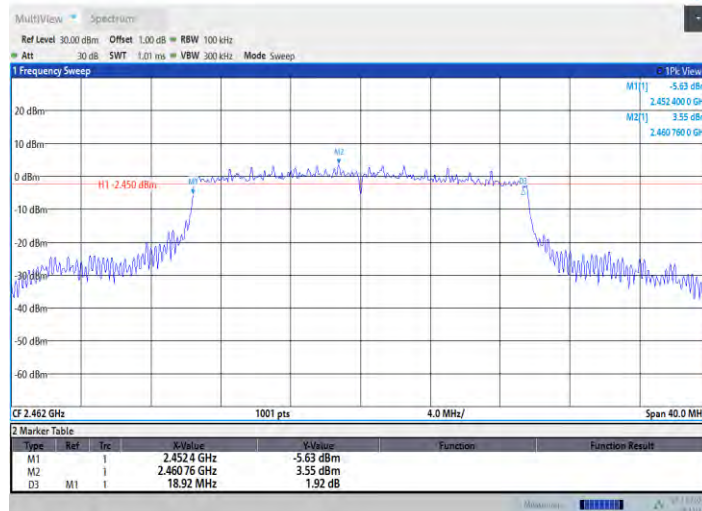
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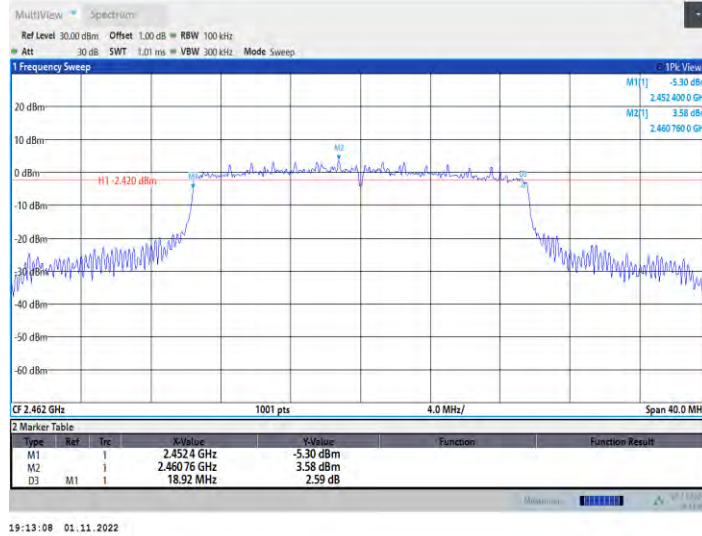
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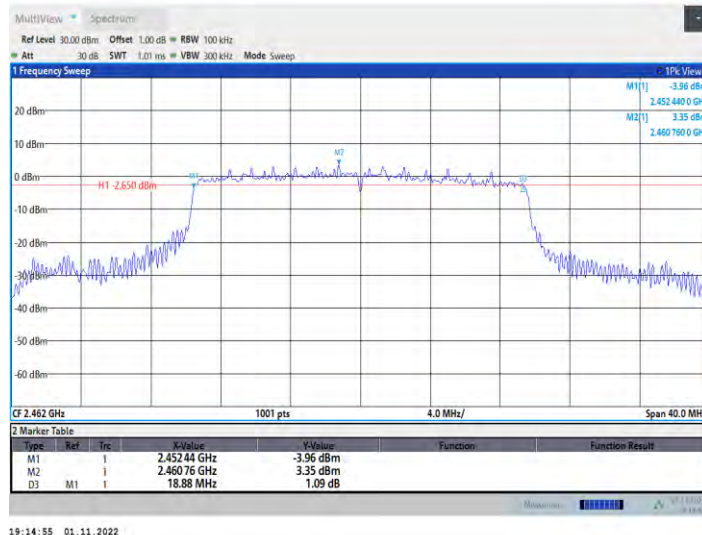
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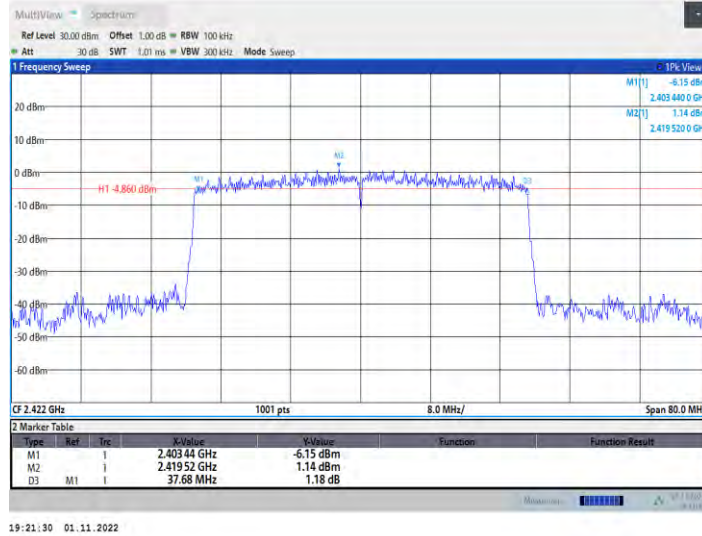


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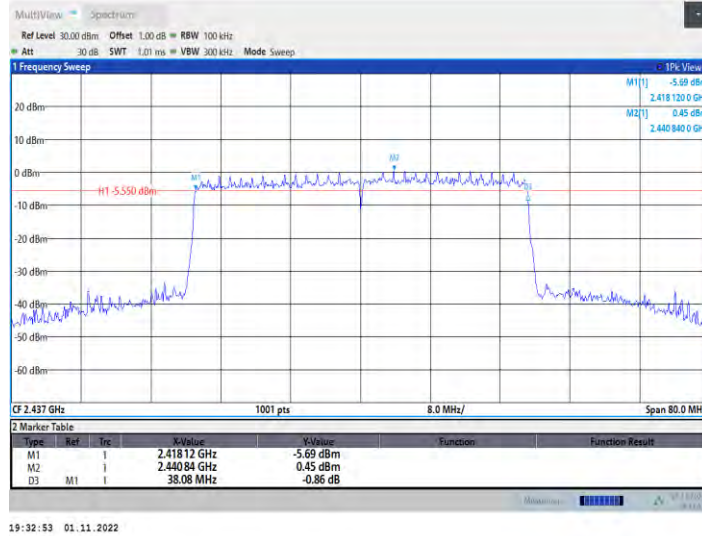


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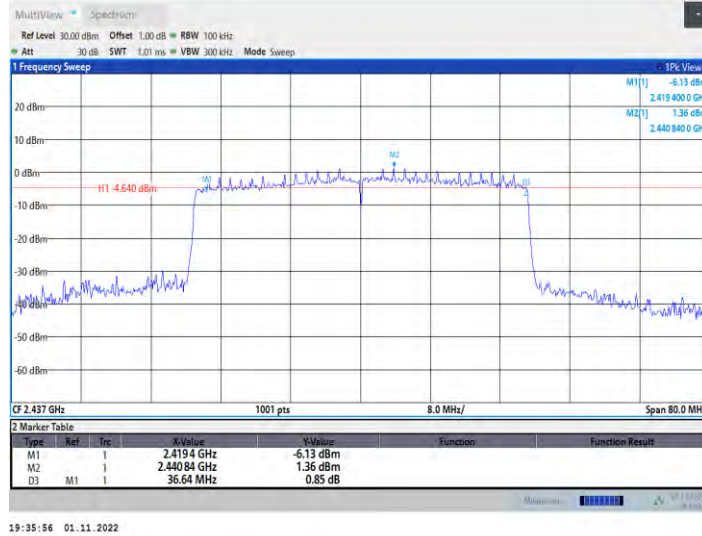


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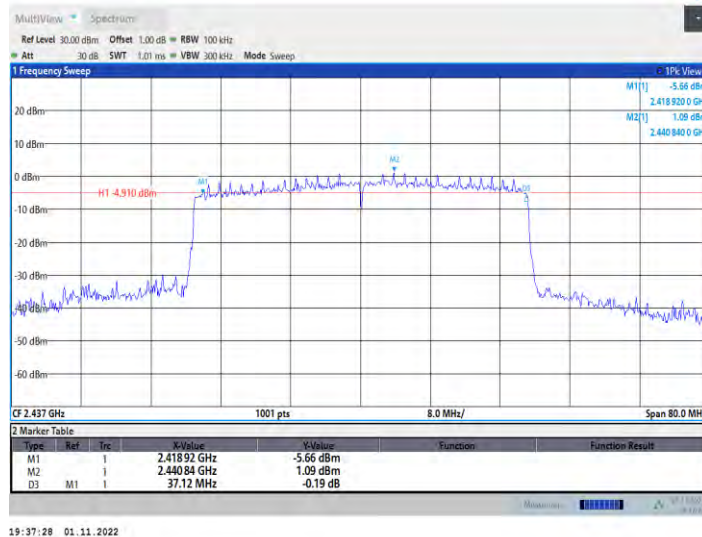
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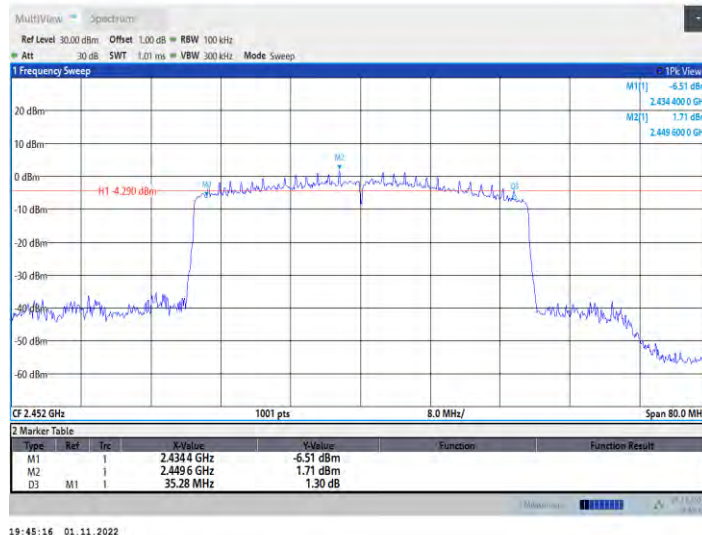
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11ax40MIMO_Ant4_2452



19:48:56 01.11.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11b	Ant1	2412	12.854	2405.698	2418.553	---	---
		2437	12.849	2430.481	2443.330	---	---
		2462	12.872	2455.576	2468.448	---	---
11g	Ant1	2412	17.184	2403.510	2420.694	---	---
		2437	17.194	2428.348	2445.542	---	---
		2462	17.142	2453.344	2470.486	---	---
11n20MIMO	Ant1	2412	17.825	2403.035	2420.859	---	---
	Ant2	2412	17.864	2403.035	2420.899	---	---
	Ant3	2412	17.802	2403.206	2421.007	---	---
	Ant4	2412	17.901	2403.188	2421.089	---	---
	Ant1	2437	17.801	2428.155	2445.957	---	---
	Ant2	2437	17.796	2428.150	2445.946	---	---
	Ant3	2437	17.784	2428.141	2445.925	---	---
	Ant4	2437	17.816	2428.148	2445.964	---	---
	Ant1	2462	17.84	2453.073	2470.913	---	---
	Ant2	2462	17.818	2453.096	2470.915	---	---
	Ant3	2462	17.726	2452.978	2470.704	---	---
	Ant4	2462	17.734	2453.004	2470.738	---	---
11n40MIMO	Ant1	2422	36.291	2403.718	2440.009	---	---
	Ant2	2422	36.68	2403.685	2440.365	---	---
	Ant3	2422	36.597	2403.800	2440.397	---	---
	Ant4	2422	36.178	2404.225	2440.403	---	---
	Ant1	2437	36.271	2418.795	2455.066	---	---
	Ant2	2437	36.174	2418.911	2455.085	---	---
	Ant3	2437	36.469	2418.851	2455.320	---	---
	Ant4	2437	35.534	2419.072	2454.606	---	---
	Ant1	2452	36.282	2433.799	2470.081	---	---
	Ant2	2452	35.755	2433.844	2469.599	---	---
	Ant3	2452	35.731	2433.855	2469.586	---	---
	Ant4	2452	35.911	2434.006	2469.917	---	---
11ax20MIMO	Ant1	2412	18.857	2402.559	2421.416	---	---
	Ant2	2412	18.847	2402.555	2421.402	---	---
	Ant3	2412	18.847	2402.558	2421.405	---	---
	Ant4	2412	18.835	2402.557	2421.392	---	---
	Ant1	2437	19.34	2427.379	2446.719	---	---
	Ant2	2437	19.249	2427.458	2446.707	---	---
	Ant3	2437	19.217	2427.446	2446.664	---	---
	Ant4	2437	19.225	2427.494	2446.720	---	---
	Ant1	2462	19.282	2452.330	2471.612	---	---
	Ant2	2462	19.353	2452.267	2471.620	---	---
	Ant3	2462	19.293	2452.322	2471.615	---	---
	Ant4	2462	19.322	2452.303	2471.625	---	---
11ax40MIMO	Ant1	2422	37.851	2403.167	2441.018	---	---
	Ant2	2422	38.034	2403.006	2441.040	---	---
	Ant3	2422	38.125	2402.965	2441.091	---	---
	Ant4	2422	38.16	2402.964	2441.124	---	---
	Ant1	2437	37.989	2418.111	2456.100	---	---
	Ant2	2437	37.793	2418.188	2455.980	---	---
	Ant3	2437	37.846	2418.170	2456.016	---	---
	Ant4	2437	37.818	2418.160	2455.978	---	---



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Report No.: SEWM2209000178RG03

Rev.: 01

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	Ant1	2452	37.489	2433.209	2470.699	---	---
	Ant2	2452	37.47	2433.186	2470.656	---	---
	Ant3	2452	37.506	2433.157	2470.663	---	---
	Ant4	2452	37.477	2433.166	2470.642	---	---

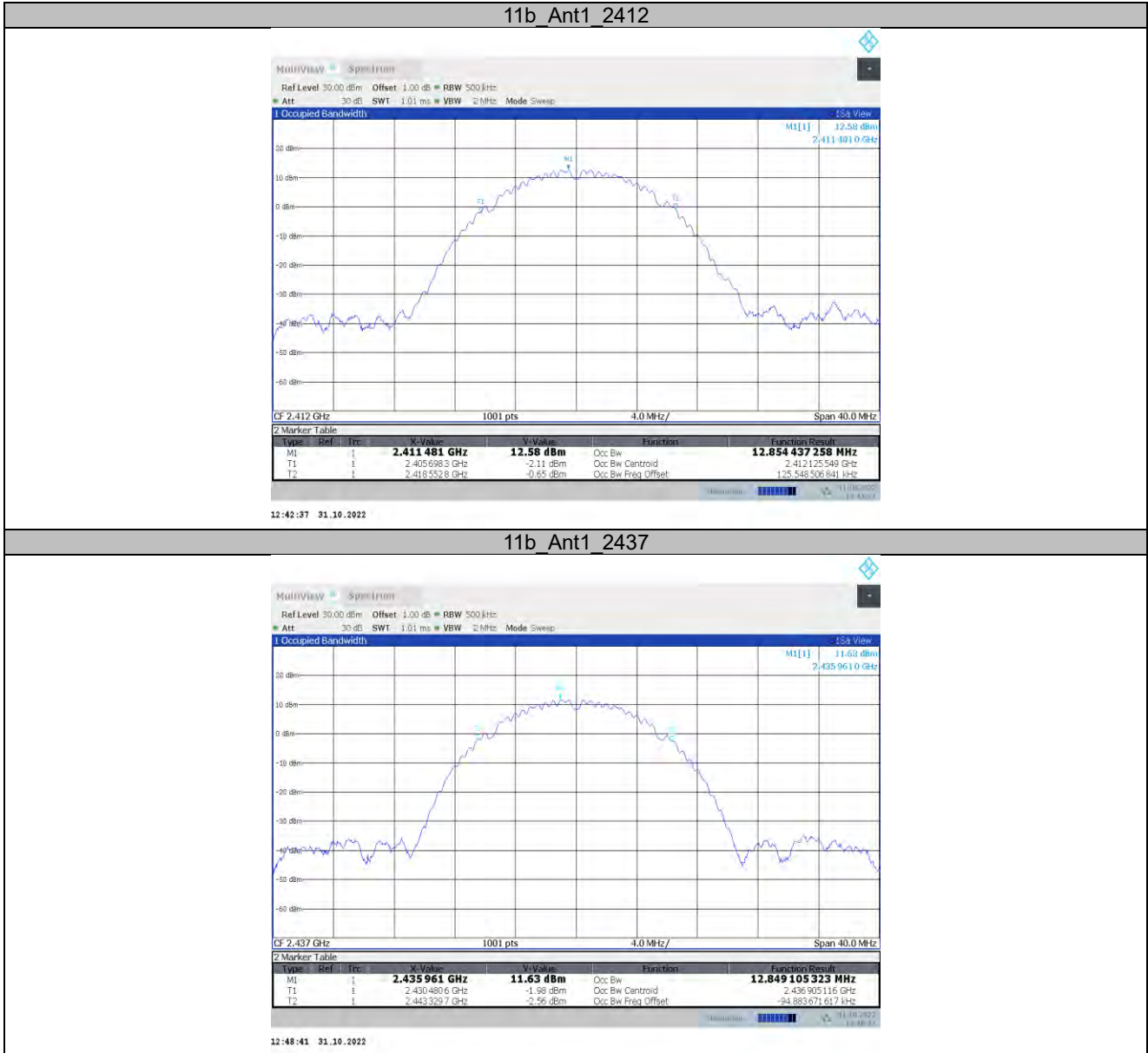


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Test Graphs

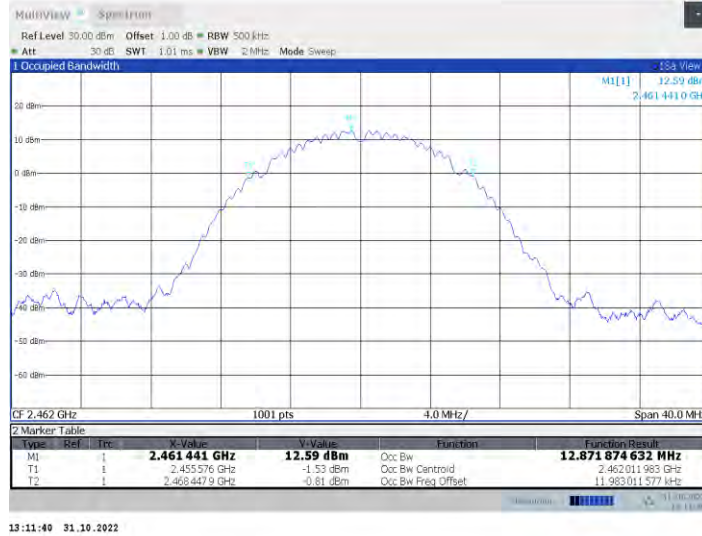


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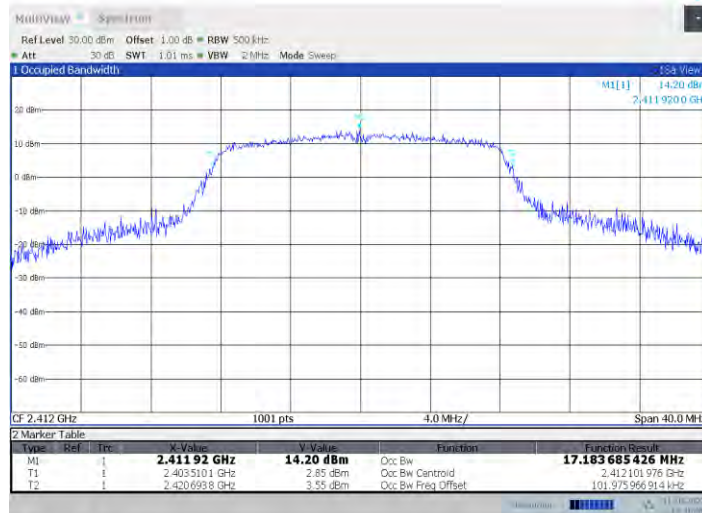
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11b Ant1 2462



13:11:40 31.10.2022

11g Ant1 2412



14:46:59 31.10.2022

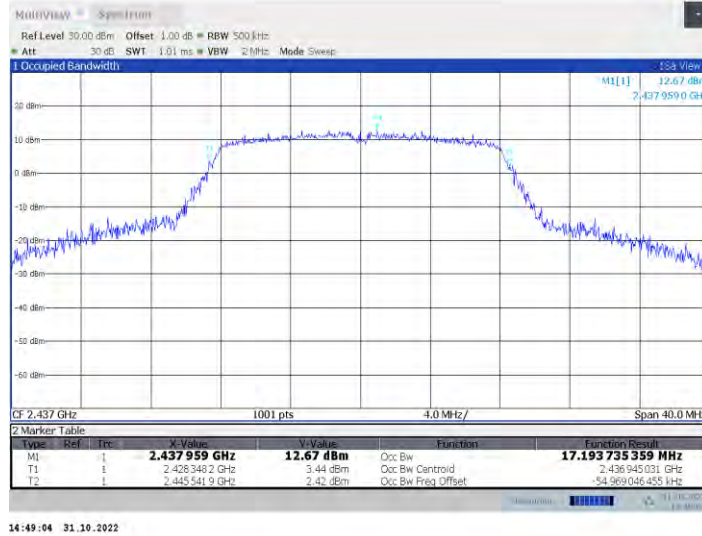


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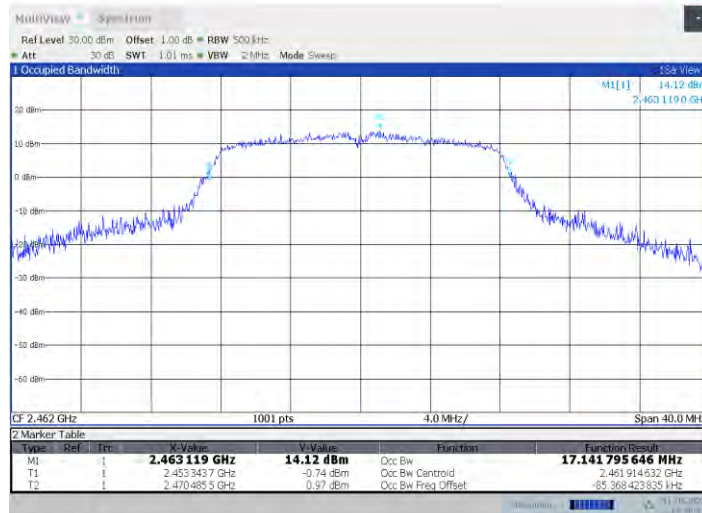
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11g Ant1 2437



14:49:04 31.10.2022

11g Ant1 2462



14:50:42 31.10.2022

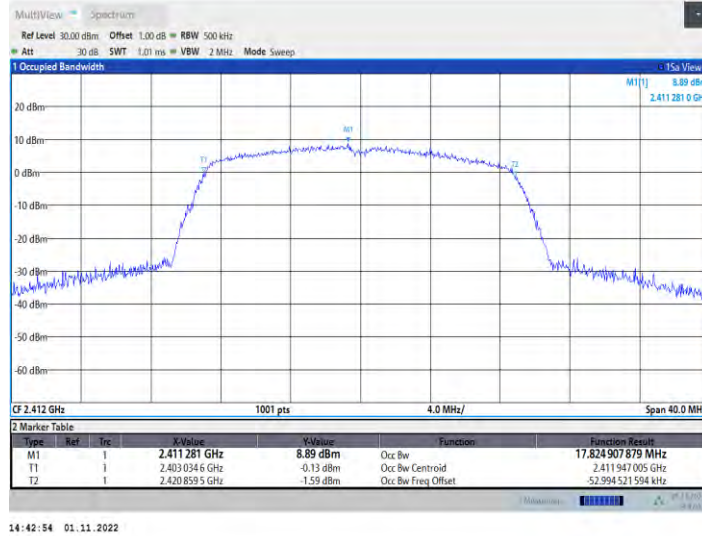


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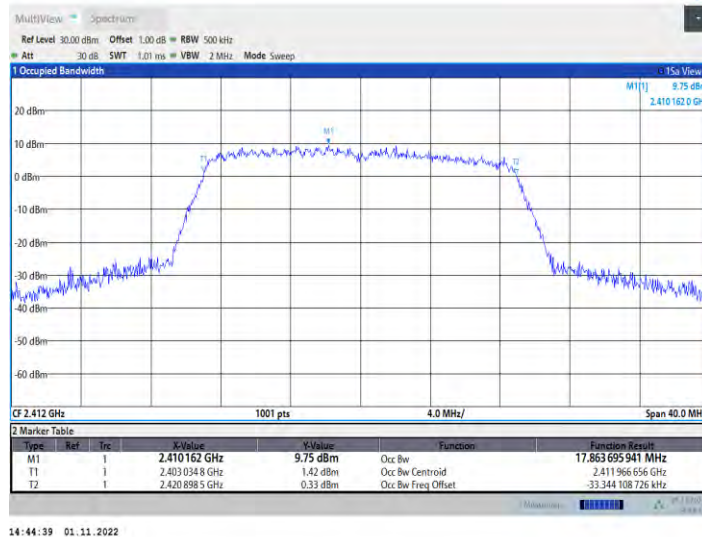
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11n20MIMO_Ant1_2412



11n20MIMO_Ant2_2412



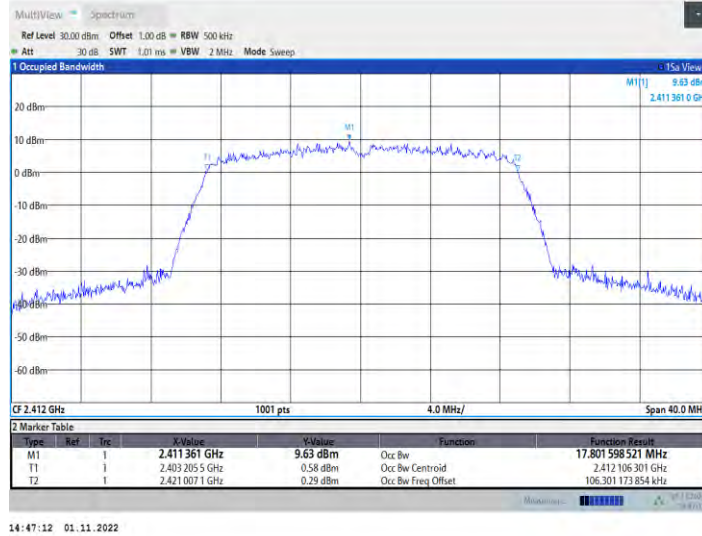
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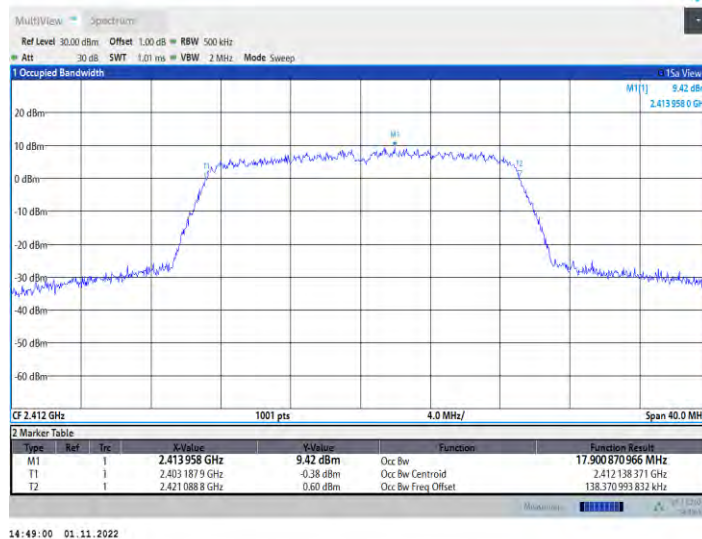
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11n20MIMO_Ant3_2412



11n20MIMO_Ant4_2412

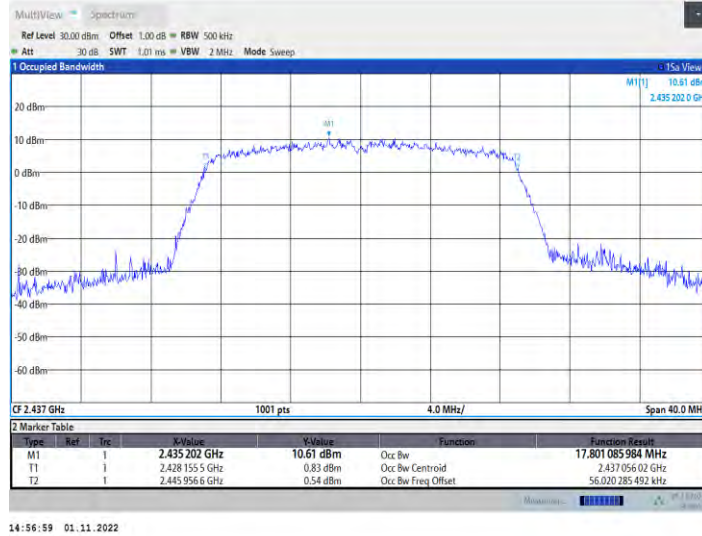


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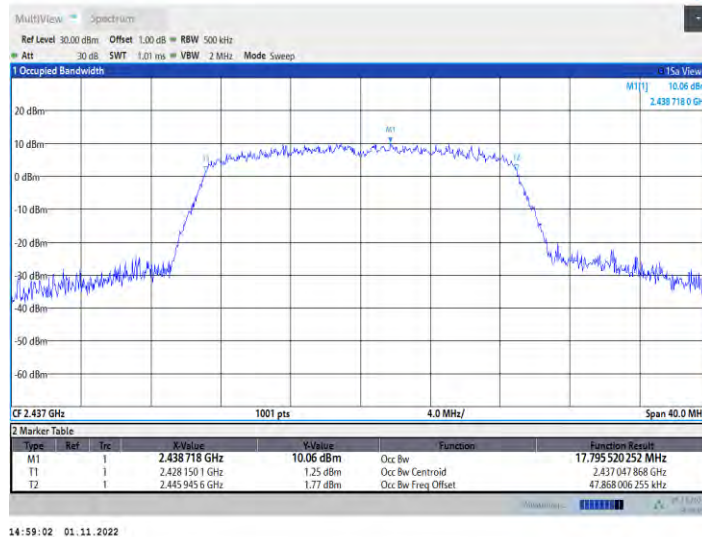
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11n20MIMO_Ant1_2437



11n20MIMO_Ant2_2437



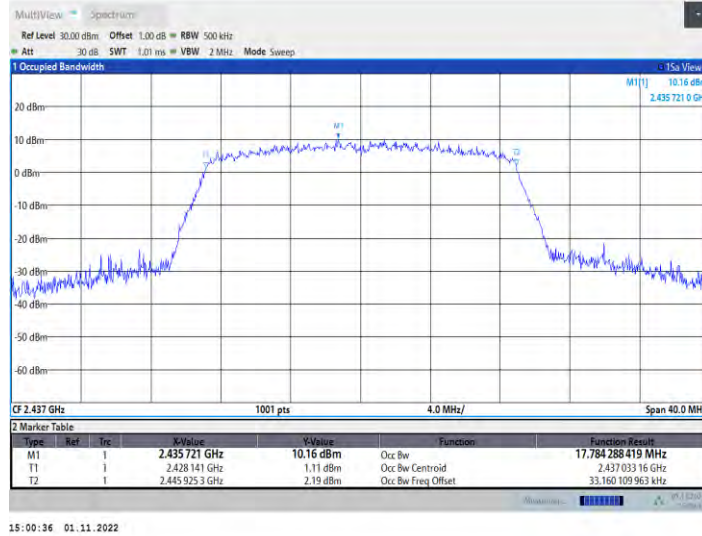
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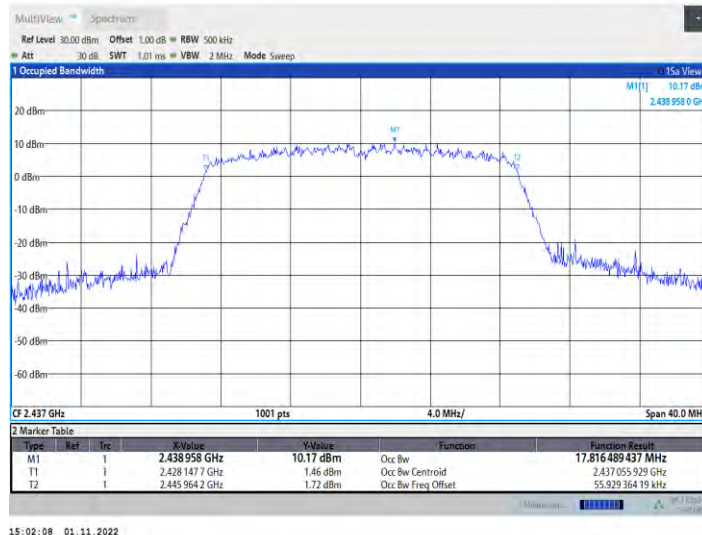
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11n20MIMO_Ant3_2437



15:00:36 01.11.2022

11n20MIMO_Ant4_2437



15:02:08 01.11.2022



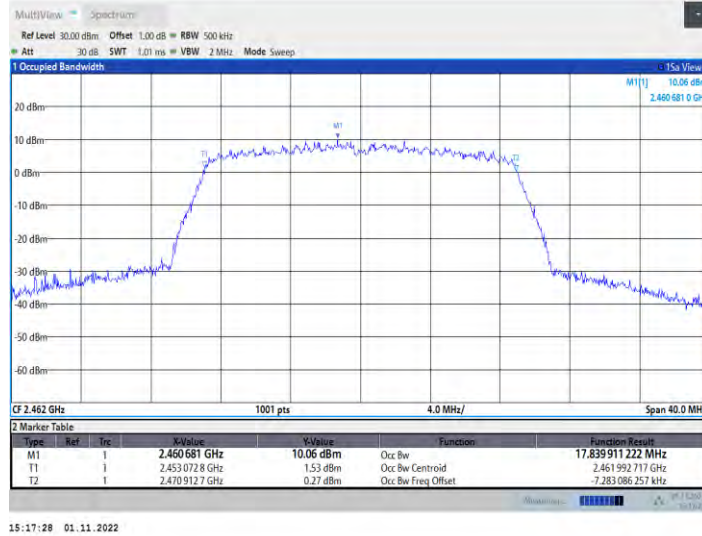
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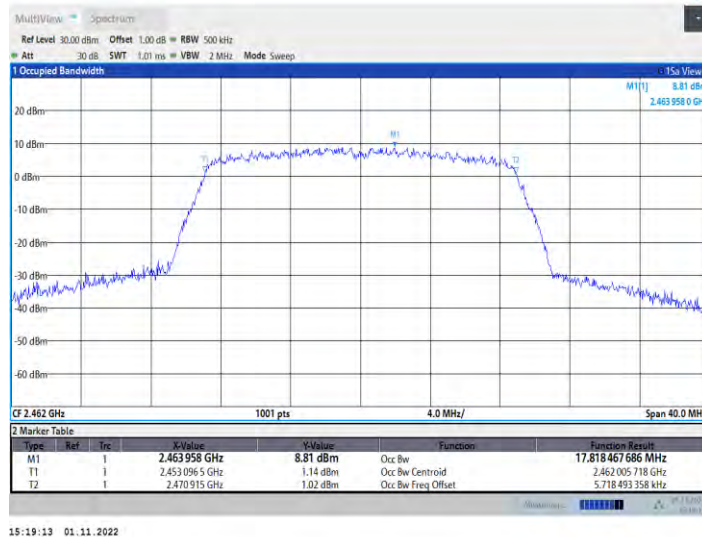
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11n20MIMO_Ant2_2462



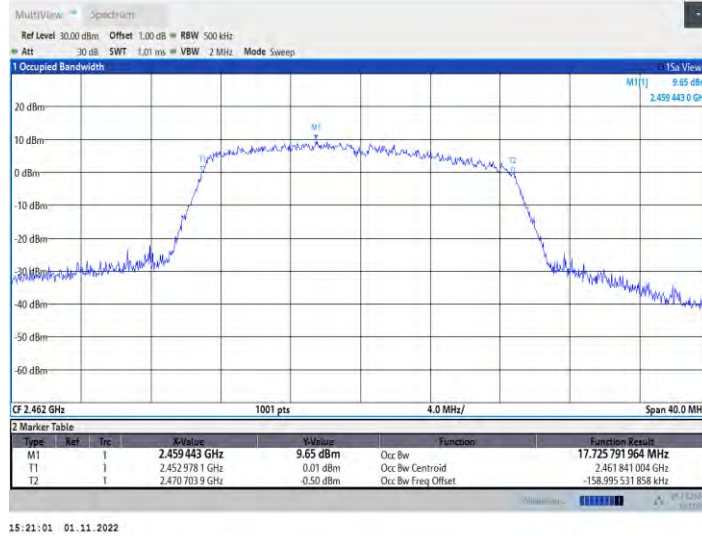
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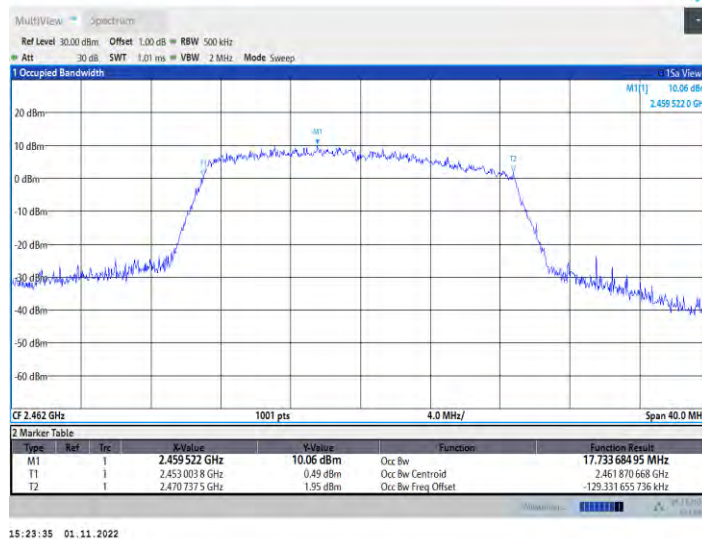
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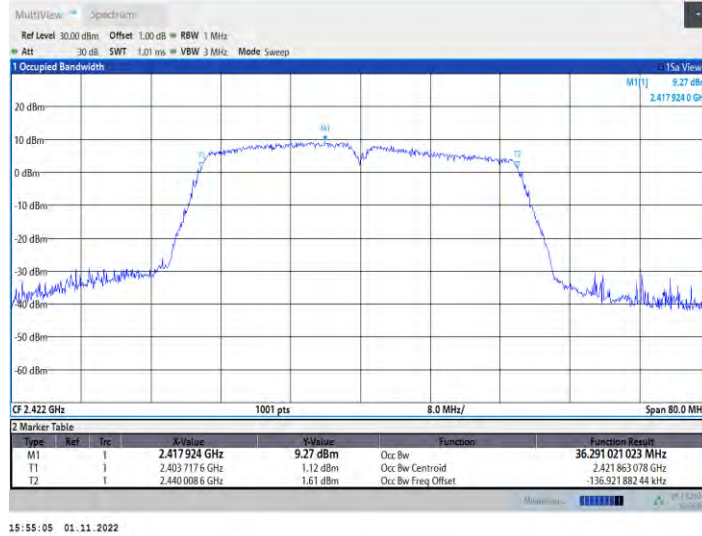


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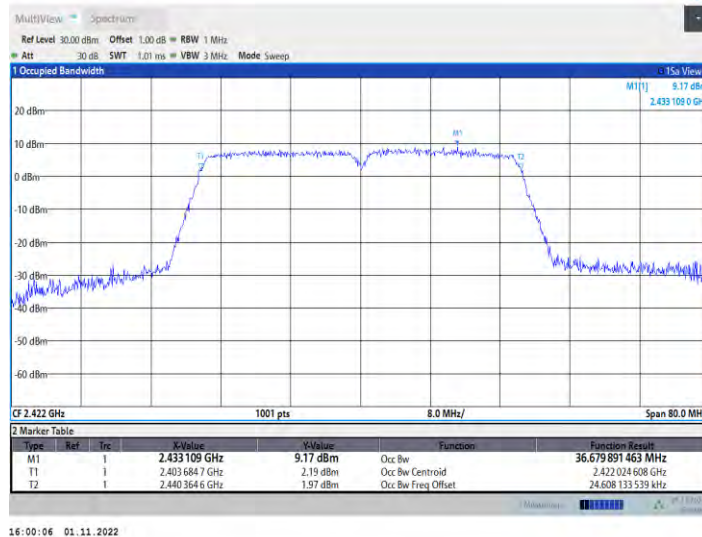
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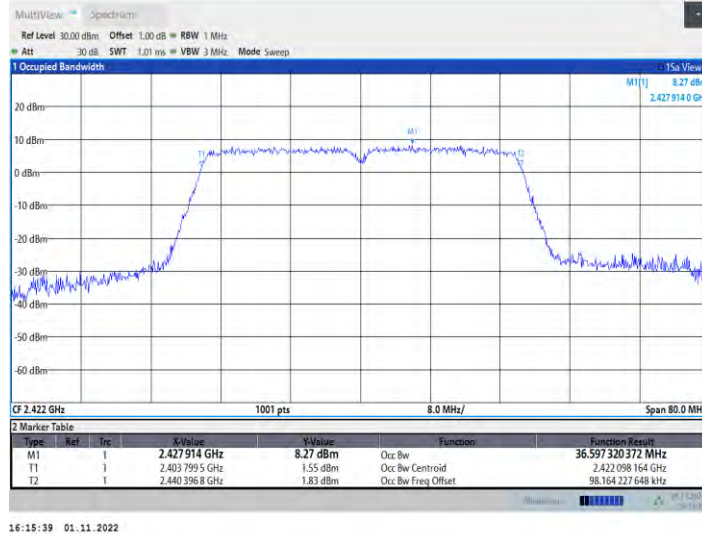
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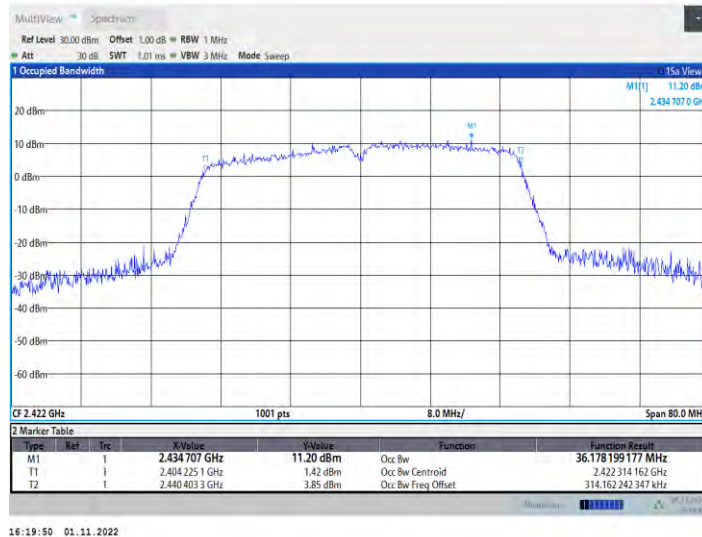
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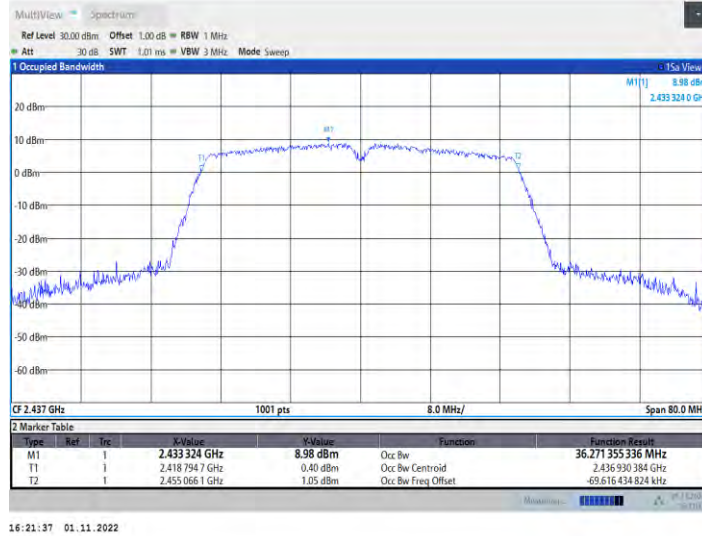
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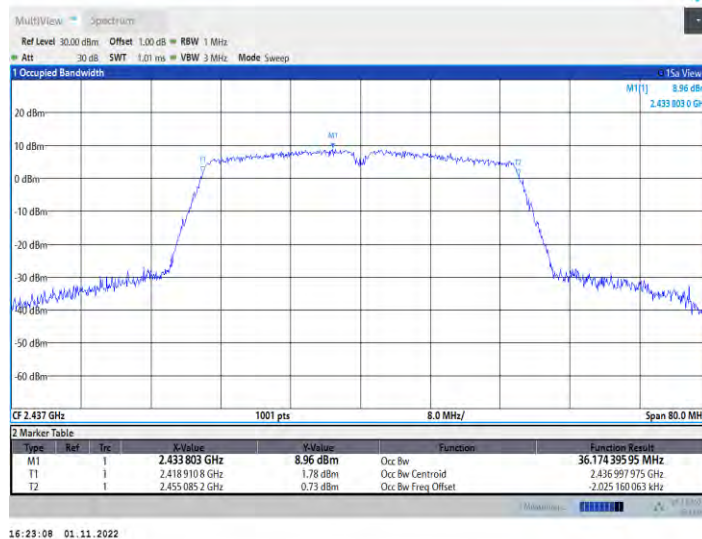
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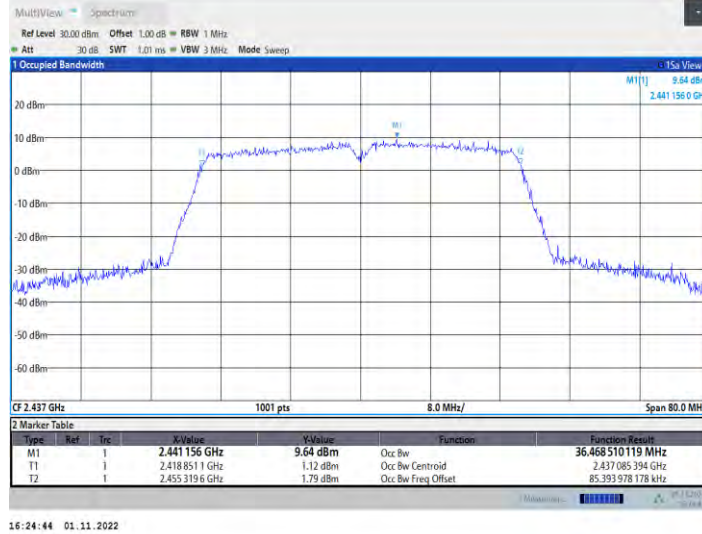


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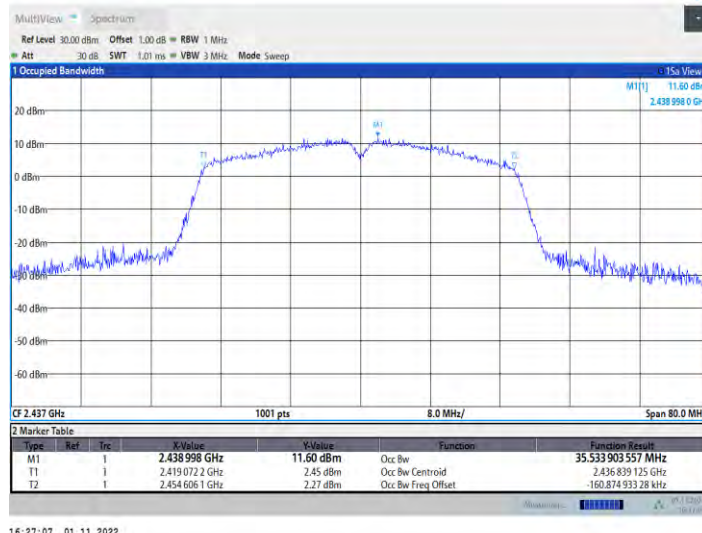
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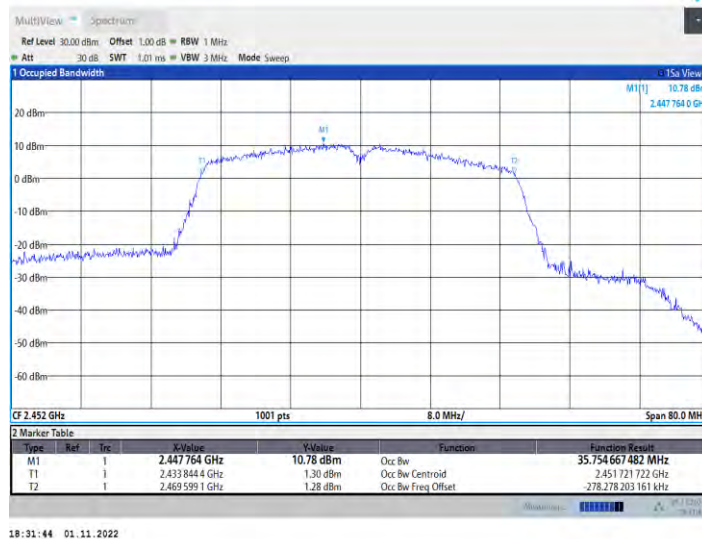
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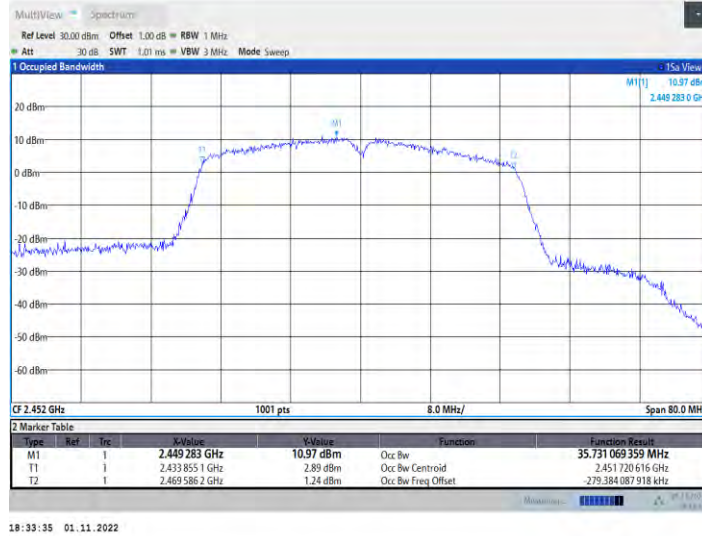
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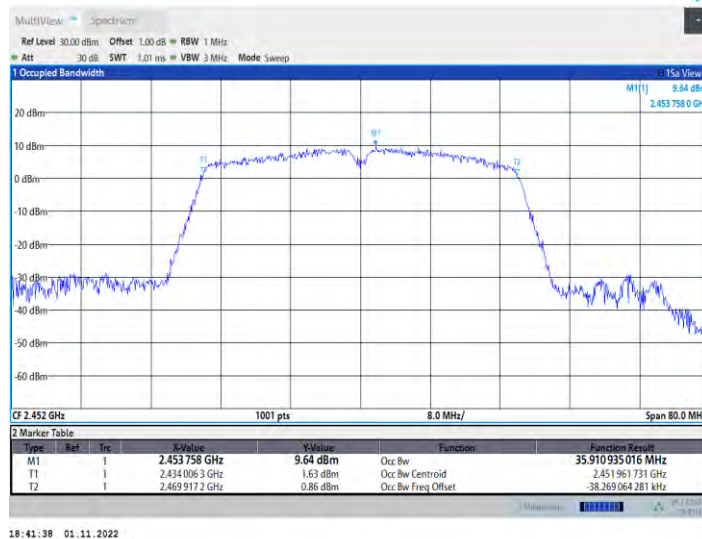
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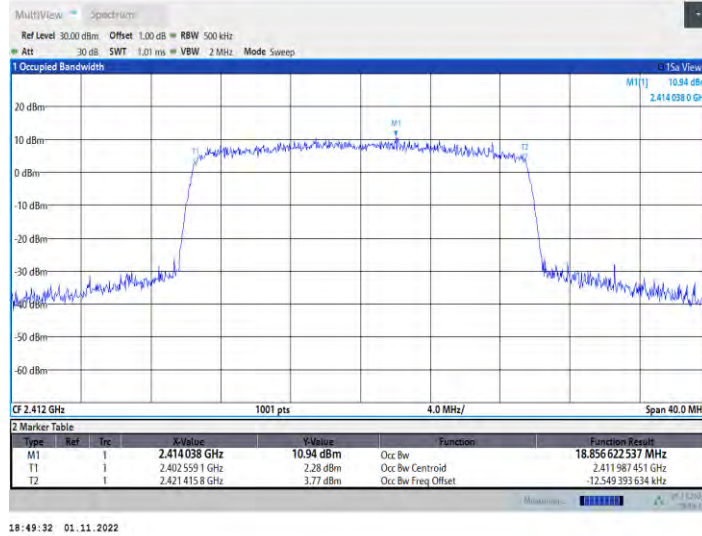


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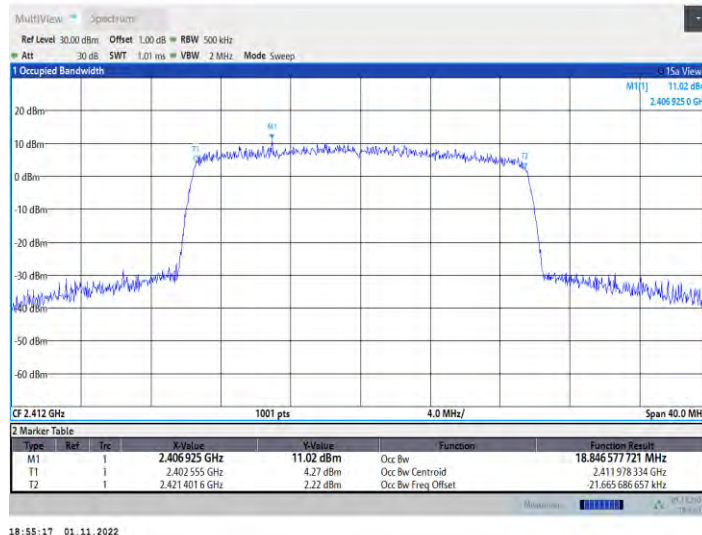
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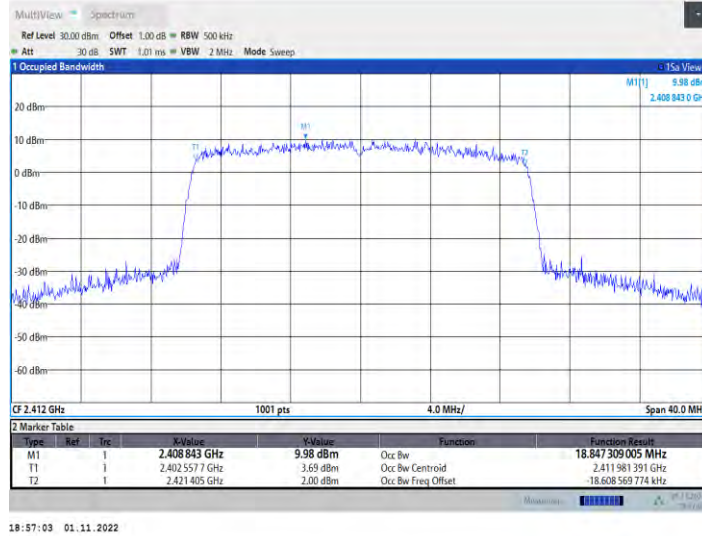
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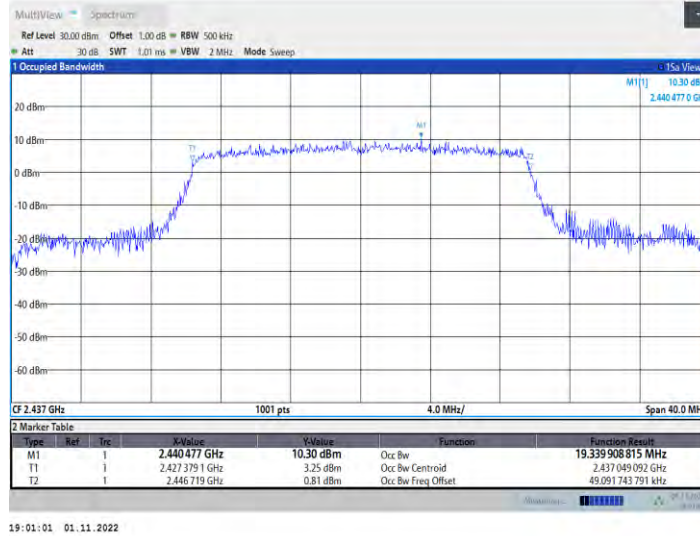
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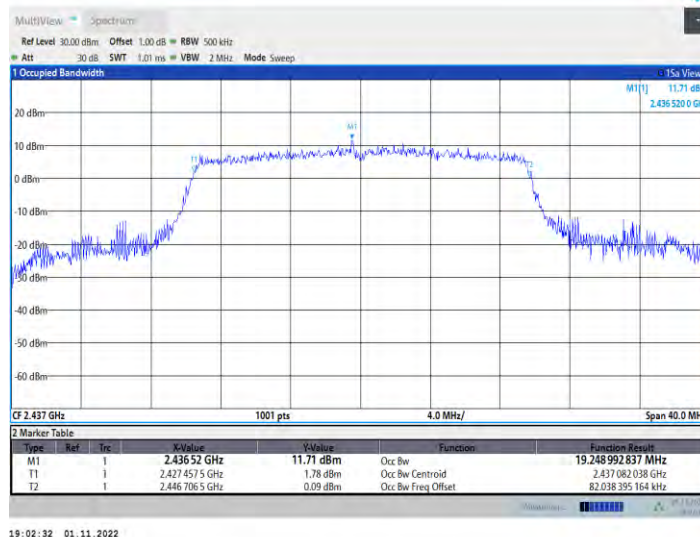
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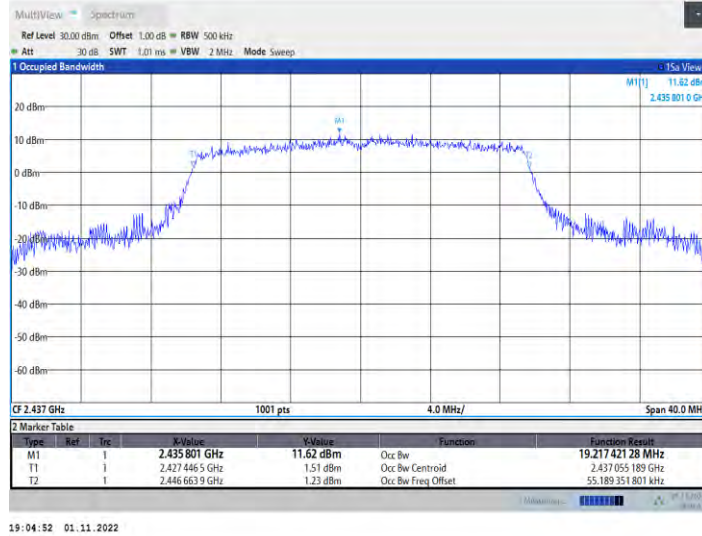
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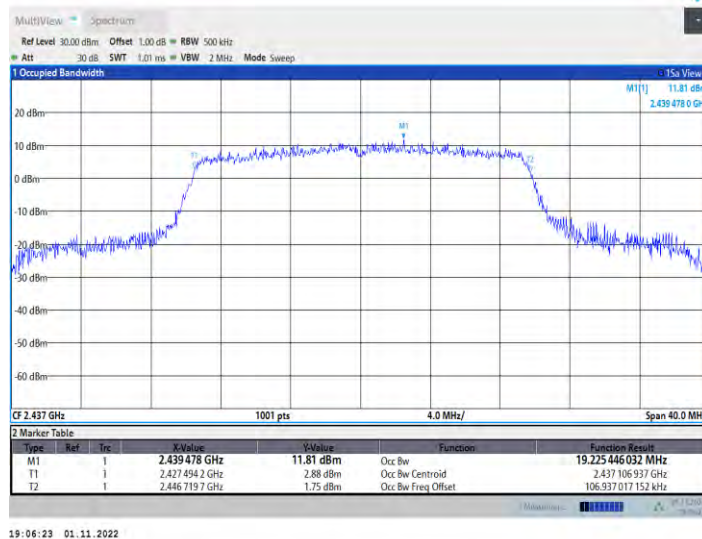
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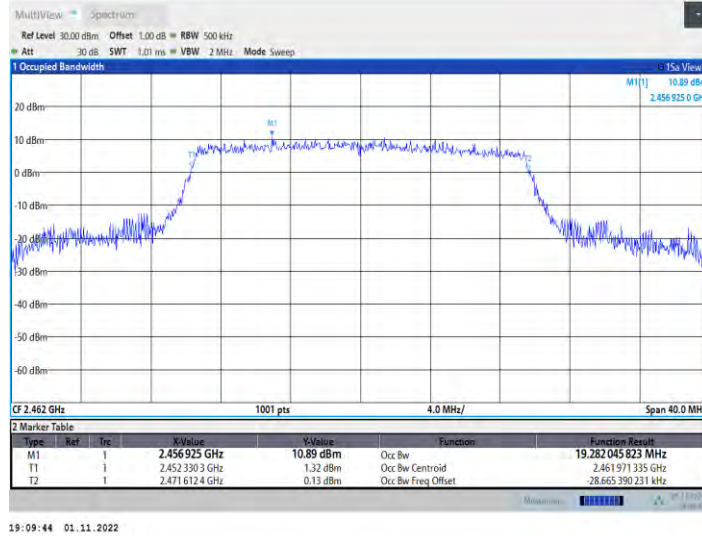


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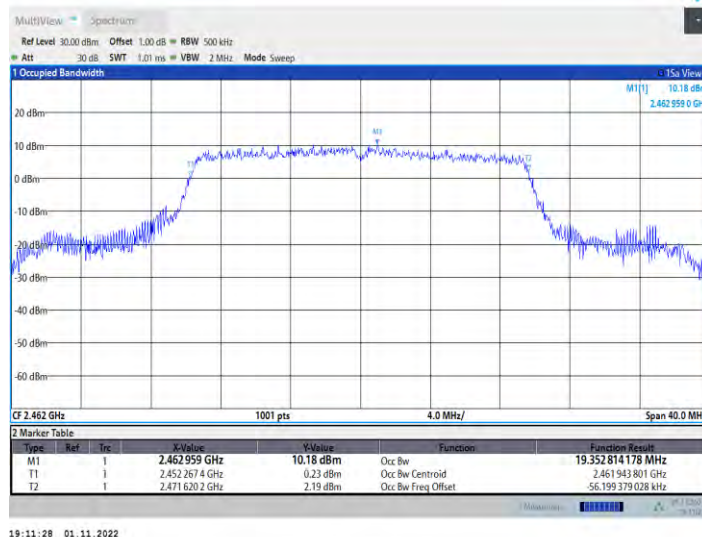
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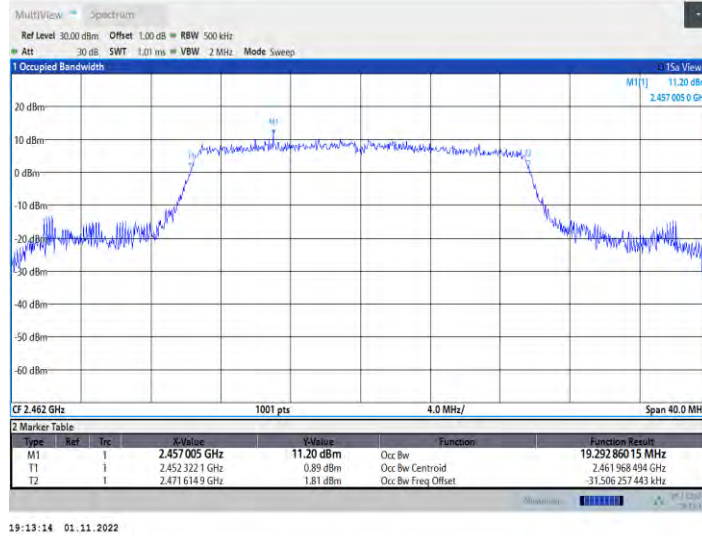
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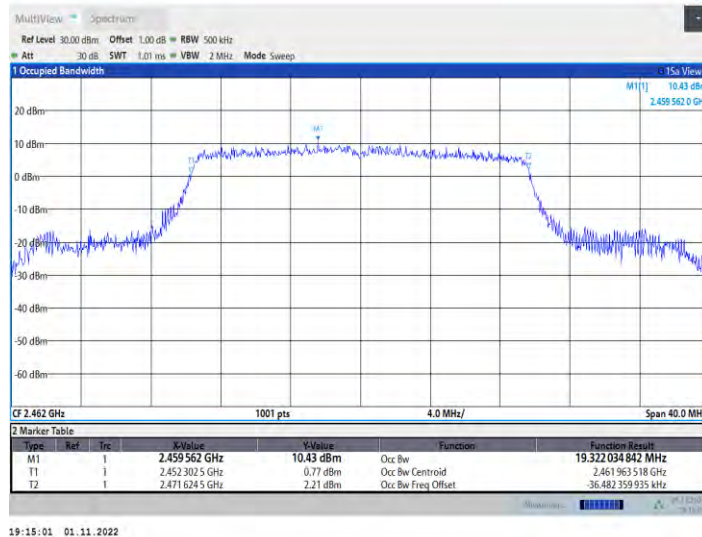
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11ax20MIMO_Ant3_2462



11ax20MIMO_Ant4_2462

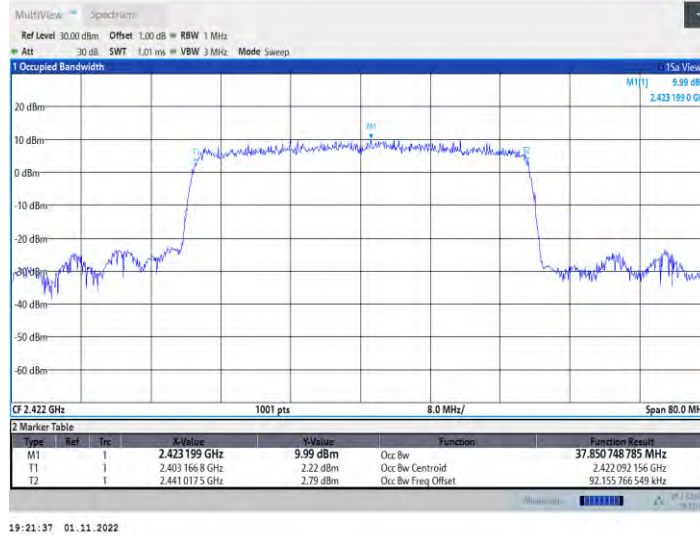


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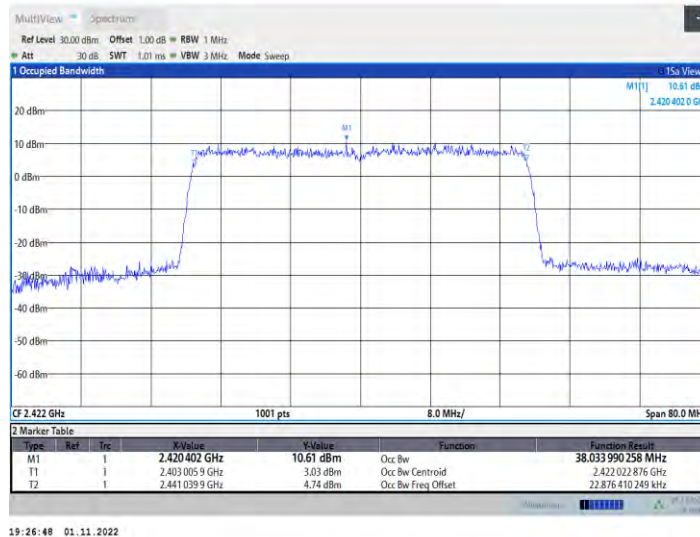
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11ax40MIMO_Ant1_2422



11ax40MIMO_Ant2_2422

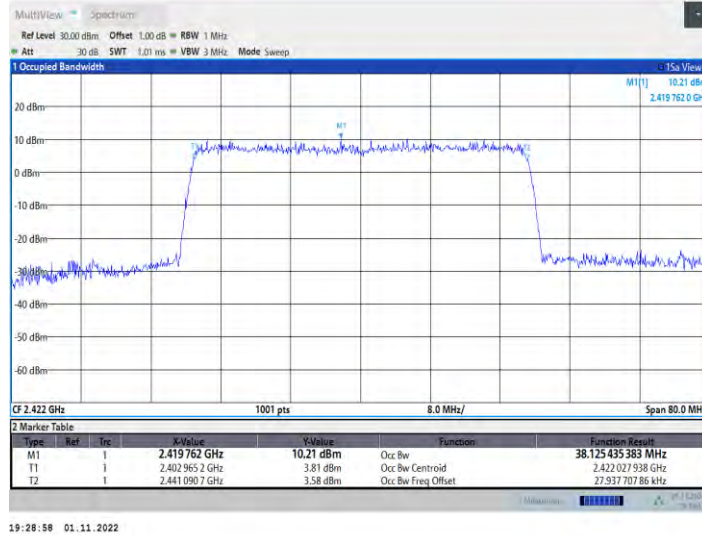


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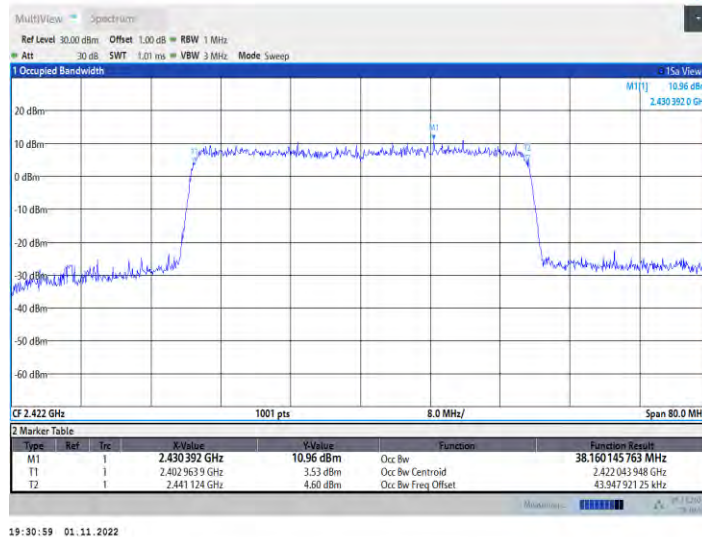
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11ax40MIMO_Ant3_2422



11ax40MIMO_Ant4_2422

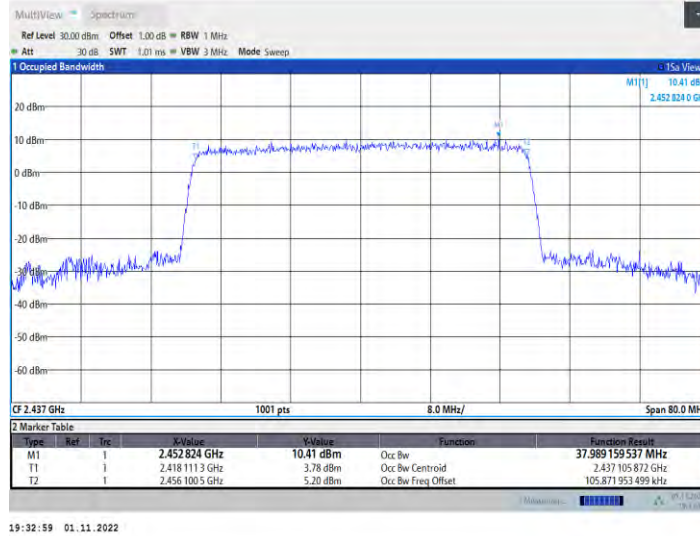


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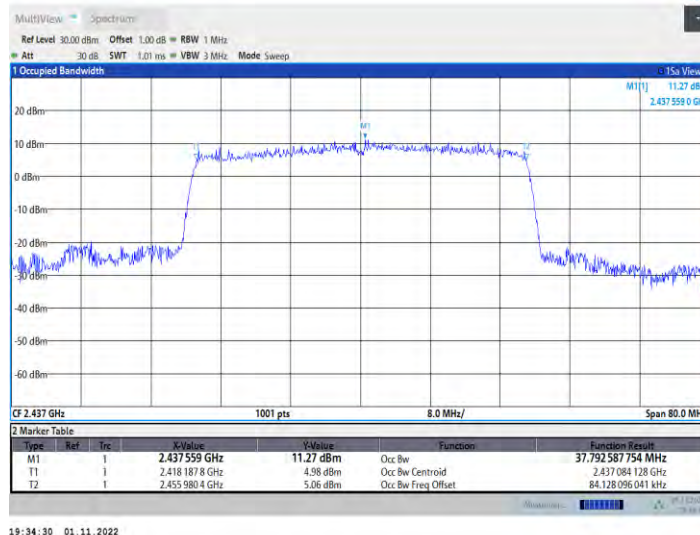
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11ax40MIMO_Ant1_2437



19:32:59 01.11.2022

11ax40MIMO_Ant2_2437



19:34:30 01.11.2022



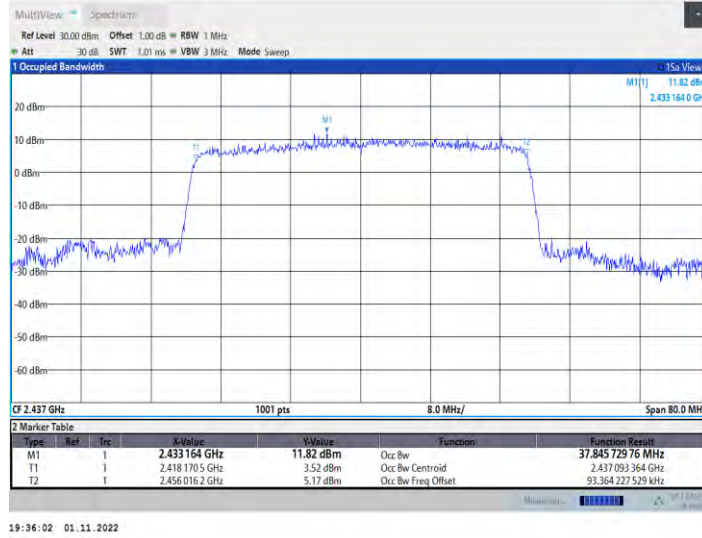
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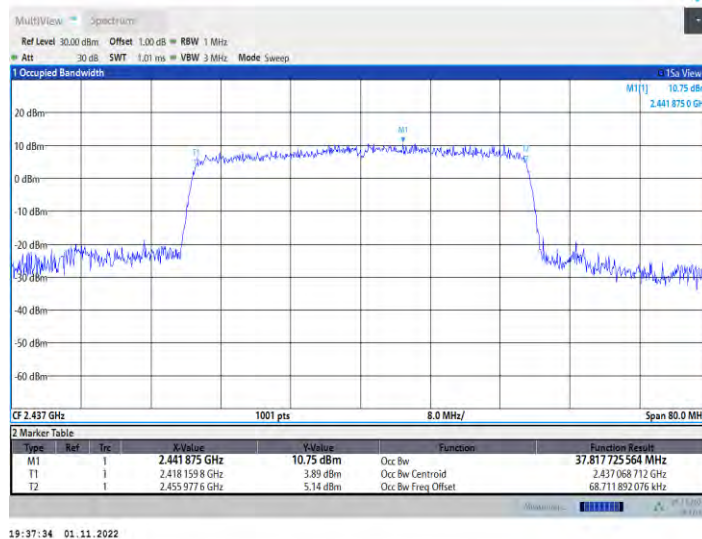
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11ax40MIMO_Ant3_2437



19:36:02 01.11.2022

11ax40MIMO_Ant4_2437



19:37:34 01.11.2022



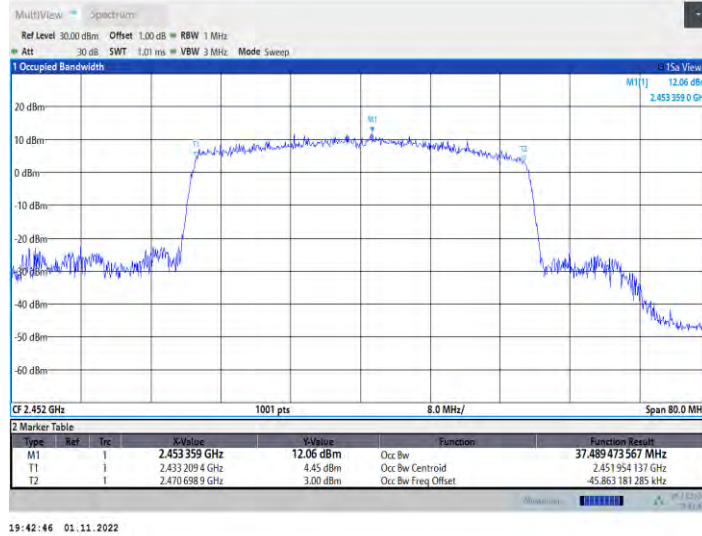
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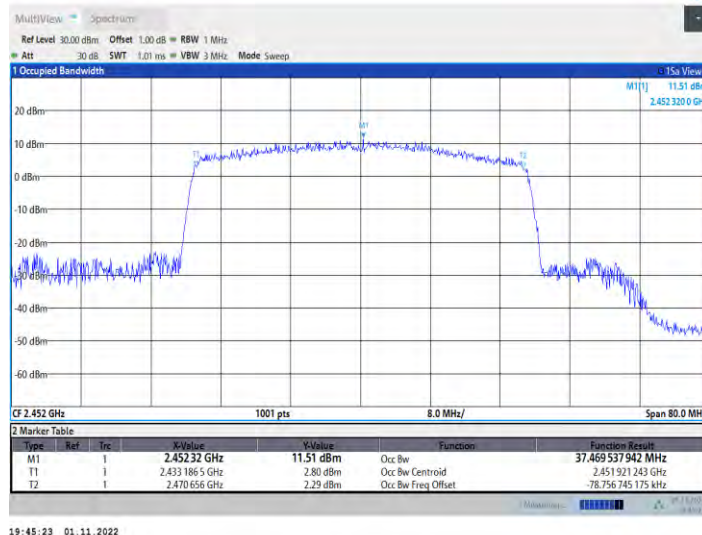
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11ax40MIMO_Ant1_2452



19:42:46 01.11.2022

11ax40MIMO_Ant2_2452



19:45:23 01.11.2022

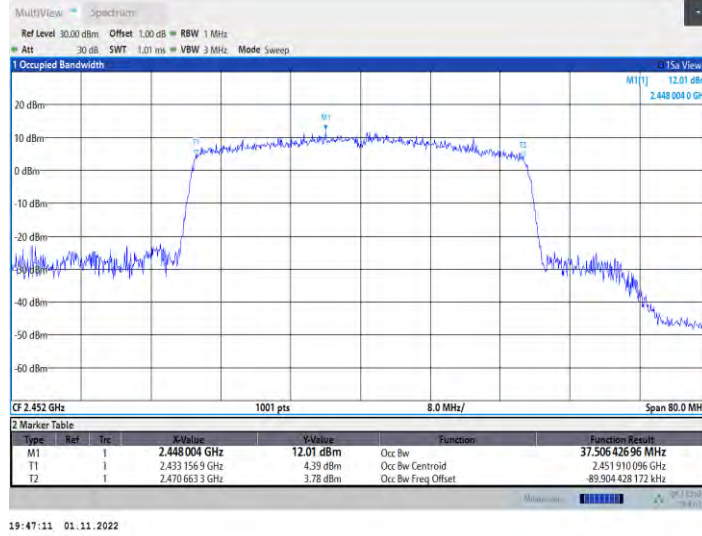


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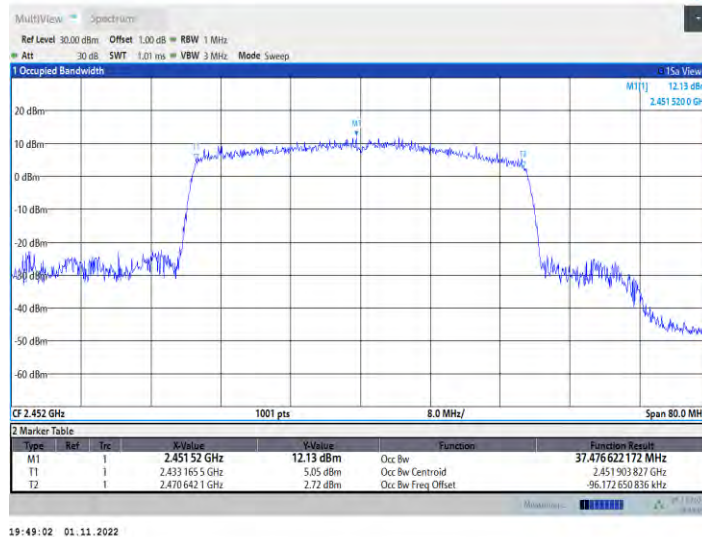
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11ax40MIMO_Ant3_2452



19:47:11 01.11.2022

11ax40MIMO_Ant4_2452



19:49:02 01.11.2022



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**Maximum conducted output power
Test Result Peak**

TestMode	Frequency [MHz]	ANT1 Peak Power[dBm]	ANT2 Peak Power[dBm]	ANT3 Peak Power[dBm]	ANT4Peak Power[dBm]	total	Conducted Limit[dBm]	Verdict
11b	2412	22.41	21.98	21.61	22.03	—	≤30.00	PASS
	2437	22.16	22.03	21.43	22.16	—	≤30.00	PASS
	2462	22.13	21.68	21.32	22.39	—	≤30.00	PASS
11g	2412	23.21	23.00	22.84	22.81	—	≤30.00	PASS
	2437	23.31	22.94	22.83	22.86	—	≤30.00	PASS
	2462	23.21	22.85	22.89	22.81	—	≤30.00	PASS
11n20MIMO	2412	22.98	23.34	23.26	23.34	29.25	≤30.00	PASS
	2437	22.69	23.33	23.42	23.52	29.27	≤30.00	PASS
	2462	22.78	23.26	23.31	23.41	29.22	≤30.00	PASS
11n40MIMO	2422	23.62	23.84	23.71	23.75	29.75	≤30.00	PASS
	2437	23.01	23.77	23.67	23.69	29.56	≤30.00	PASS
	2452	23.35	23.78	23.81	23.61	29.66	≤30.00	PASS
11ax20MIMO	2412	23.54	23.69	23.54	23.65	29.63	≤30.00	PASS
	2437	23.46	23.98	23.22	23.62	29.60	≤30.00	PASS
	2462	23.65	23.59	23.61	23.69	29.66	≤30.00	PASS
11ax40MIMO	2422	23.32	23.51	23.22	23.61	29.44	≤30.00	PASS
	2437	23.53	23.43	23.61	23.63	29.57	≤30.00	PASS
	2452	23.51	23.49	23.68	23.55	29.58	≤30.00	PASS

Test Mode	Frequency [MHz]	Ru Size	Ru Index	ANT1 Peak Power [dBm]	ANT2 Peak Power [dBm]	ANT3 Peak Power [dBm]	ANT4 Peak Power [dBm]	Total Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11ax20MIMO	2412	26Tone	RU0	22.98	22.98	22.83	22.88	28.94	≤30.00	PASS
		52Tone	RU37	23.12	23.11	23.11	23.21	29.16	≤30.00	PASS
		106Tone	RU53	23.12	23.42	23.22	23.32	29.29	≤30.00	PASS
	2437	26Tone	RU4	23.03	23.36	23.13	23.42	29.26	≤30.00	PASS
		52Tone	RU38	23.01	23.41	23.32	23.51	29.34	≤30.00	PASS
		106Tone	RU53	23.22	23.25	23.21	23.24	29.25	≤30.00	PASS
	2462	26Tone	RU8	23.11	23.21	23.33	23.21	29.24	≤30.00	PASS
		52Tone	RU40	23.12	23.26	23.32	23.21	29.25	≤30.00	PASS
		106Tone	RU54	23.16	23.19	23.42	23.46	29.33	≤30.00	PASS
11ax40MIMO	2422	242Tone	RU61	23.22	23.16	23.26	23.32	29.26	≤30.00	PASS
	2437	242Tone	RU61	23.32	23.14	23.32	23.51	29.35	≤30.00	PASS
	2452	242Tone	RU62	23.36	23.32	23.51	23.50	29.44	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-1.78	≤8.00	PASS
		2437	-2.8	≤8.00	PASS
		2462	-1.52	≤8.00	PASS
11g	Ant1	2412	-8.87	≤8.00	PASS
		2437	-8.52	≤8.00	PASS
		2462	-7.71	≤8.00	PASS
11n20MIMO	Ant1	2412	-9.71	≤8.00	PASS
	Ant2	2412	-11.14	≤8.00	PASS
	Ant3	2412	-9.68	≤8.00	PASS
	Ant4	2412	-10.37	≤8.00	PASS
	total	2412	-4.16	≤5.39	PASS
	Ant1	2437	-9.03	≤8.00	PASS
	Ant2	2437	-9.74	≤8.00	PASS
	Ant3	2437	-7.04	≤8.00	PASS
	Ant4	2437	-9.06	≤8.00	PASS
	total	2437	-2.57	≤5.39	PASS
	Ant1	2462	-10.66	≤8.00	PASS
	Ant2	2462	-10.34	≤8.00	PASS
	Ant3	2462	-9.48	≤8.00	PASS
	Ant4	2462	-10.02	≤8.00	PASS
	total	2462	-4.08	≤5.39	PASS
	11n40MIMO	Ant1	2422	-13.45	≤8.00
Ant2		2422	-14.22	≤8.00	PASS
Ant3		2422	-14.22	≤8.00	PASS
Ant4		2422	-10.33	≤8.00	PASS
total		2422	-6.70	≤5.39	PASS
Ant1		2437	-13.36	≤8.00	PASS
Ant2		2437	-11.69	≤8.00	PASS
Ant3		2437	-13.51	≤8.00	PASS
Ant4		2437	-9.83	≤8.00	PASS
total		2437	-5.81	≤5.39	PASS
Ant1		2452	-11.9	≤8.00	PASS
Ant2		2452	-12.14	≤8.00	PASS
Ant3		2452	-11.52	≤8.00	PASS
Ant4		2452	-14.1	≤8.00	PASS
total		2452	-6.29	≤5.39	PASS
11ax20MIMO		Ant1	2412	-11.66	≤8.00
	Ant2	2412	-10.1	≤8.00	PASS
	Ant3	2412	-11.9	≤8.00	PASS
	Ant4	2412	-11.33	≤8.00	PASS
	total	2412	-5.17	≤5.39	PASS
	Ant1	2437	-11.51	≤8.00	PASS
	Ant2	2437	-9.58	≤8.00	PASS
	Ant3	2437	-9.85	≤8.00	PASS
	Ant4	2437	-10.05	≤8.00	PASS
	total	2437	-4.17	≤5.39	PASS
	Ant1	2462	-11.91	≤8.00	PASS
	Ant2	2462	-10.82	≤8.00	PASS
	Ant3	2462	-10.87	≤8.00	PASS
	Ant4	2462	-11.06	≤8.00	PASS



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	total	2462	-5.12	≤5.39	PASS
11ax40MIMO	Ant1	2422	-13.09	≤8.00	PASS
	Ant2	2422	-15.13	≤8.00	PASS
	Ant3	2422	-13.37	≤8.00	PASS
	Ant4	2422	-15.2	≤8.00	PASS
	total	2422	-8.07	≤5.39	PASS
	Ant1	2437	-14.67	≤8.00	PASS
	Ant2	2437	-14.42	≤8.00	PASS
	Ant3	2437	-12.35	≤8.00	PASS
	Ant4	2437	-14.42	≤8.00	PASS
	total	2437	-7.84	≤5.39	PASS
	Ant1	2452	-12.93	≤8.00	PASS
	Ant2	2452	-13.29	≤8.00	PASS
	Ant3	2452	-13.28	≤8.00	PASS
	Ant4	2452	-11.78	≤8.00	PASS
	total	2452	-6.75	≤5.39	PASS



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TestMode	Antenna	Frequency[MHz]	RuSize	RuIndex	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11ax20MIMO	Ant1	2412	26Tone	RU0	-4.21	≤8.00	PASS
			52Tone	RU37	-5.62	≤8.00	PASS
			106Tone	RU53	-9.88	≤8.00	PASS
	Ant2	2412	26Tone	RU0	-5.09	≤8.00	PASS
			52Tone	RU37	-6.33	≤8.00	PASS
			106Tone	RU53	-9.99	≤8.00	PASS
	Ant3	2412	26Tone	RU0	-5.54	≤8.00	PASS
			52Tone	RU37	-7.17	≤8.00	PASS
			106Tone	RU53	-8.8	≤8.00	PASS
	Ant4	2412	26Tone	RU0	-5.54	≤8.00	PASS
			52Tone	RU37	-6.46	≤8.00	PASS
			106Tone	RU53	-9.2	≤8.00	PASS
	total	2412	26Tone	RU0	0.96	≤5.39	PASS
			52Tone	RU37	-0.34	≤5.39	PASS
			106Tone	RU53	-3.42	≤5.39	PASS
	Ant1	2437	26Tone	RU4	-4.97	≤8.00	PASS
			52Tone	RU38	-6.07	≤8.00	PASS
			106Tone	RU53	-9.03	≤8.00	PASS
	Ant2	2437	26Tone	RU4	-3.99	≤8.00	PASS
			52Tone	RU38	-5.13	≤8.00	PASS
			106Tone	RU53	-9.15	≤8.00	PASS
	Ant3	2437	26Tone	RU4	-3.97	≤8.00	PASS
			52Tone	RU38	-6.25	≤8.00	PASS
			106Tone	RU53	-8.9	≤8.00	PASS
	Ant4	2437	52Tone	RU38	-6.7	≤8.00	PASS
			106Tone	RU53	-8.54	≤8.00	PASS
			26Tone	RU4	0.49	≤5.39	PASS
	total	2437	52Tone	RU38	0.02	≤5.39	PASS
			106Tone	RU53	-2.88	≤5.39	PASS
			26Tone	RU8	-4.41	≤8.00	PASS
	Ant1	2462	52Tone	RU40	-8.51	≤8.00	PASS
			106Tone	RU54	-9.41	≤8.00	PASS
			26Tone	RU8	-5.04	≤8.00	PASS
	Ant2	2462	52Tone	RU40	-7.82	≤8.00	PASS
			106Tone	RU54	-10.35	≤8.00	PASS
			26Tone	RU8	-4.53	≤8.00	PASS
	Ant3	2462	52Tone	RU40	-6.8	≤8.00	PASS
			106Tone	RU54	-10.3	≤8.00	PASS
			26Tone	RU8	-4.3	≤8.00	PASS
	Ant4	2462	52Tone	RU40	-7.08	≤8.00	PASS
			106Tone	RU54	-8.58	≤8.00	PASS
			26Tone	RU8	1.46	≤5.39	PASS
total	2462	52Tone	RU40	-1.48	≤5.39	PASS	
		106Tone	RU54	-3.58	≤5.39	PASS	
		2422	242Tone	RU61	-13.64	≤8.00	PASS
11ax40MIMO	Ant2	2422	242Tone	RU61	-13.06	≤8.00	PASS
	Ant3	2422	242Tone	RU61	-14.43	≤8.00	PASS
	Ant4	2422	242Tone	RU61	-13.32	≤8.00	PASS
	total	2422	242Tone	RU61	-7.56	≤5.39	PASS
	Ant1	2437	242Tone	RU61	-13.45	≤8.00	PASS
	Ant2	2437	242Tone	RU61	-13.72	≤8.00	PASS
	Ant3	2437	242Tone	RU61	-13.11	≤8.00	PASS
	Ant4	2437	242Tone	RU61	-12.63	≤8.00	PASS
	total	2437	242Tone	RU61	-7.19	≤5.39	PASS



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Ant1	2452	242Tone	RU62	-13.08	≤8.00	PASS
Ant2	2452	242Tone	RU62	-13.58	≤8.00	PASS
Ant3	2452	242Tone	RU62	-11.83	≤8.00	PASS
Ant4	2452	242Tone	RU62	-13.43	≤8.00	PASS
total	2452	242Tone	RU62	-6.90	≤5.39	PASS



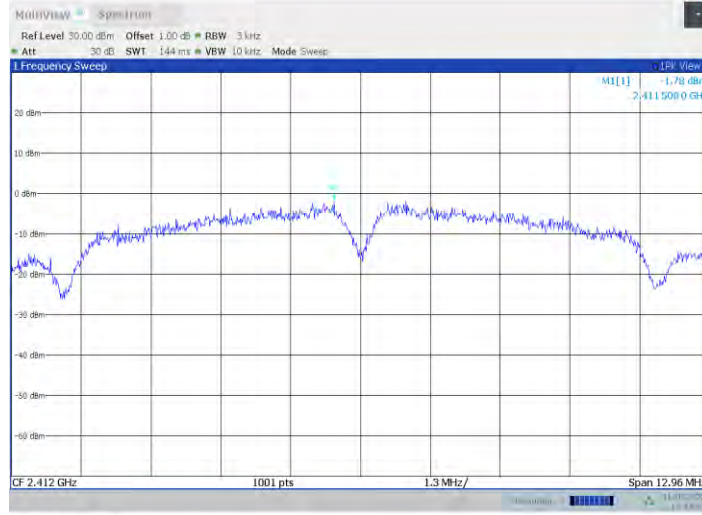
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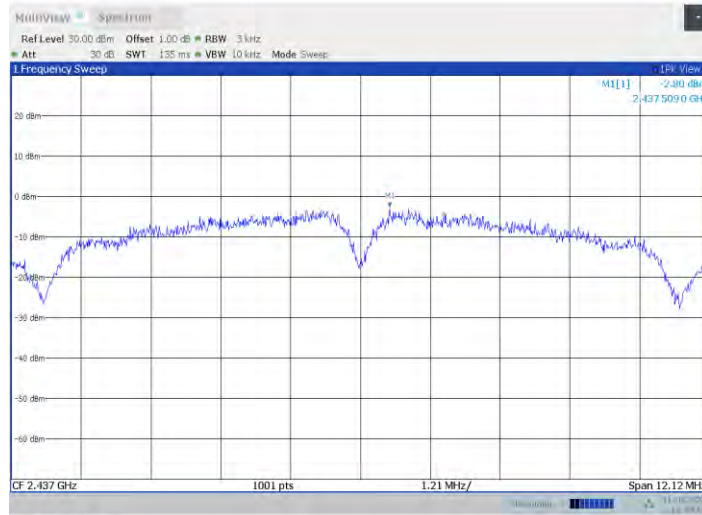
Test Graphs

11b Ant1 2412



12:43:02 31.10.2022

11b Ant1 2437



12:49:14 31.10.2022



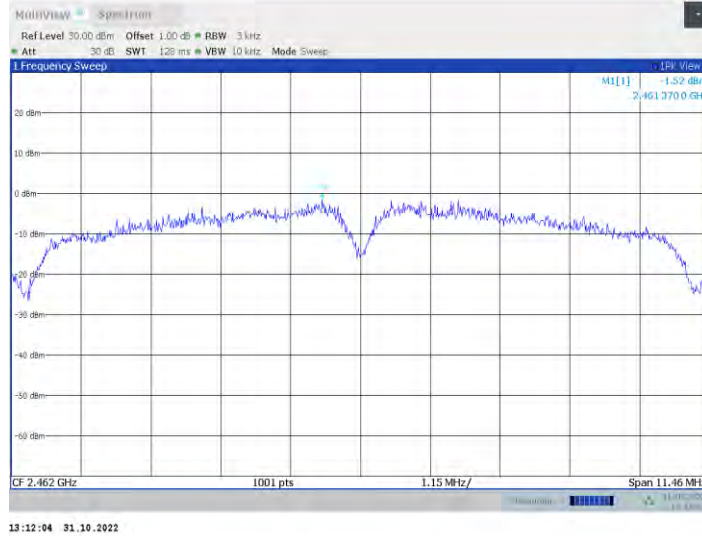
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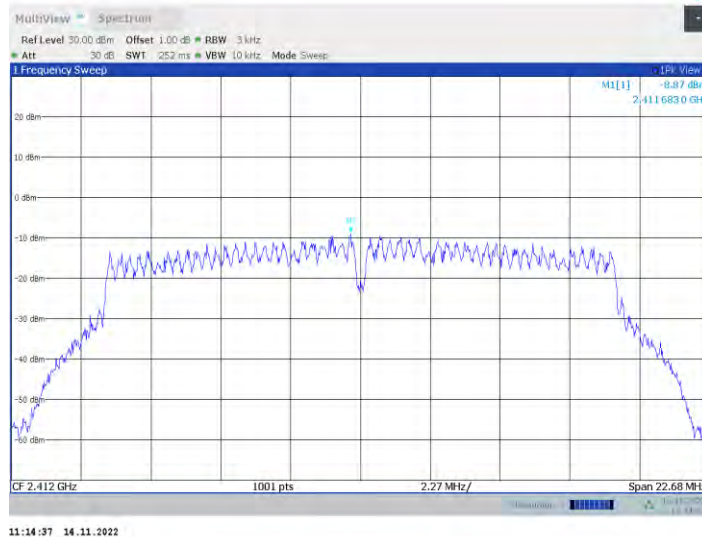
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11b Ant1 2462



11g Ant1 2412

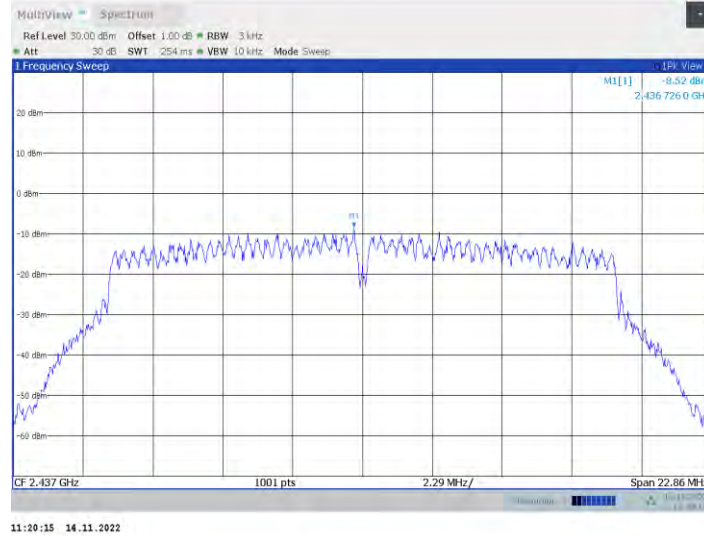


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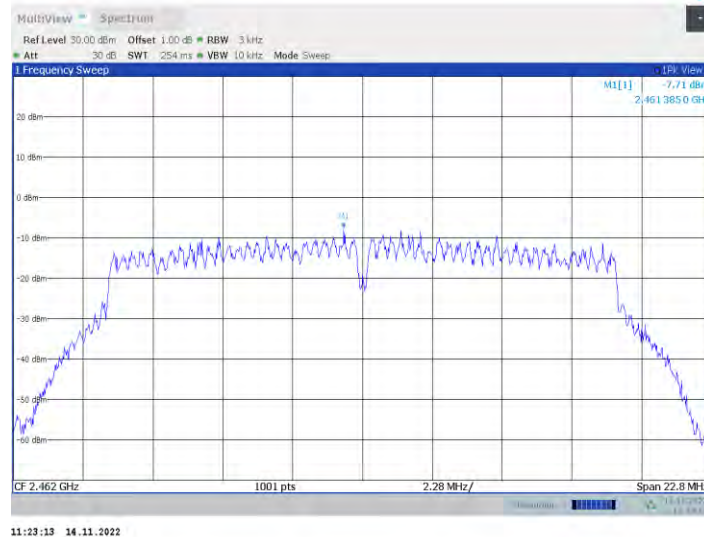
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11g Ant1 2437



11g Ant1 2462

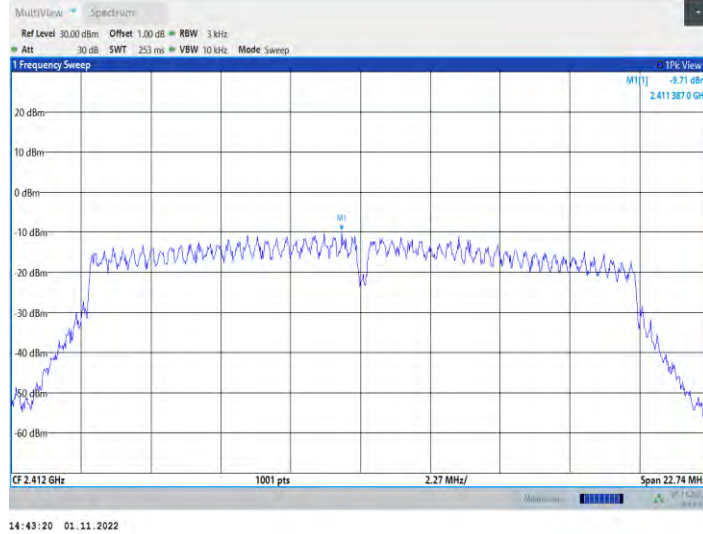


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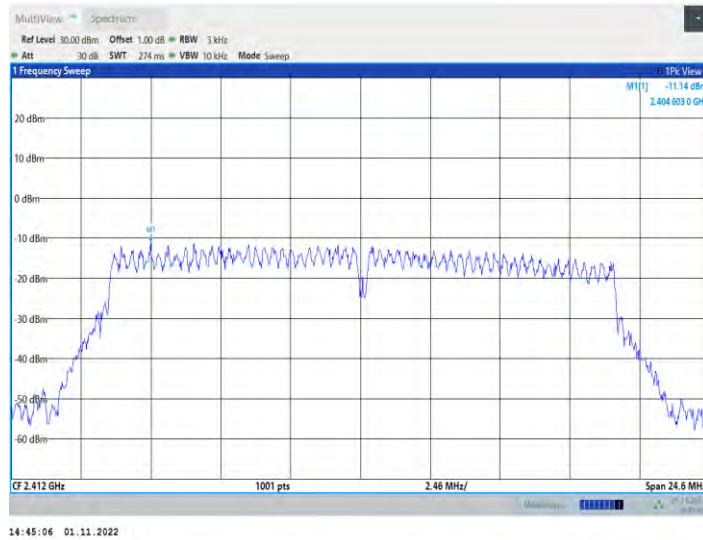
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11n20MIMO_Ant1_2412



11n20MIMO_Ant2_2412

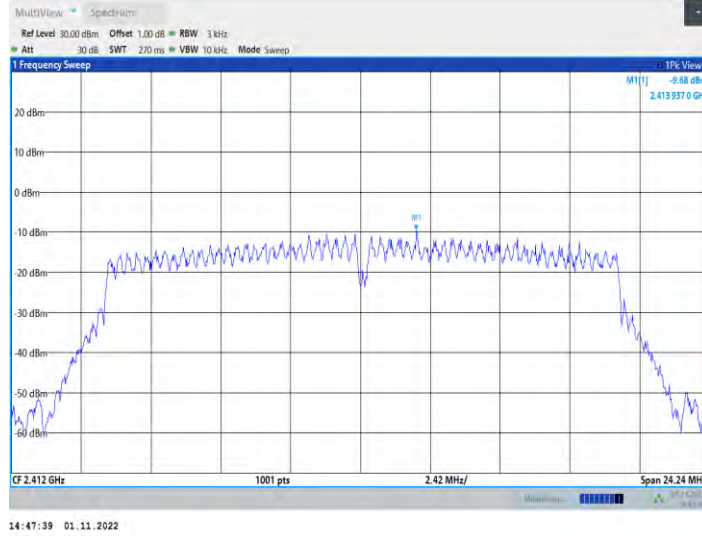


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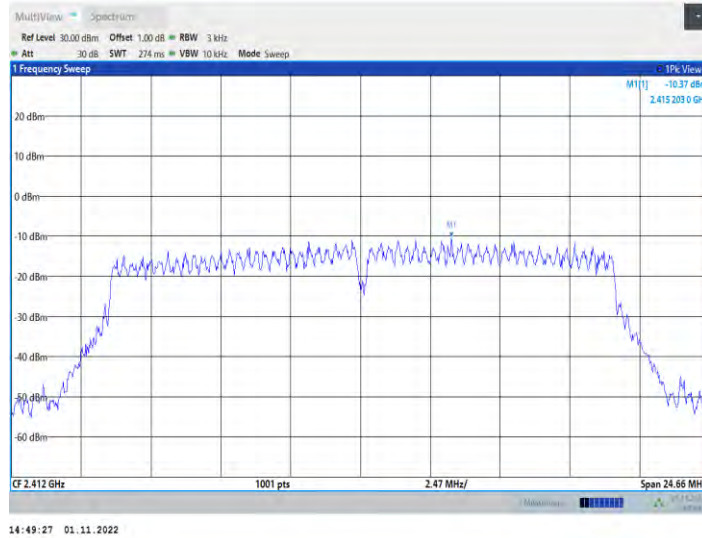
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11n20MIMO_Ant3_2412

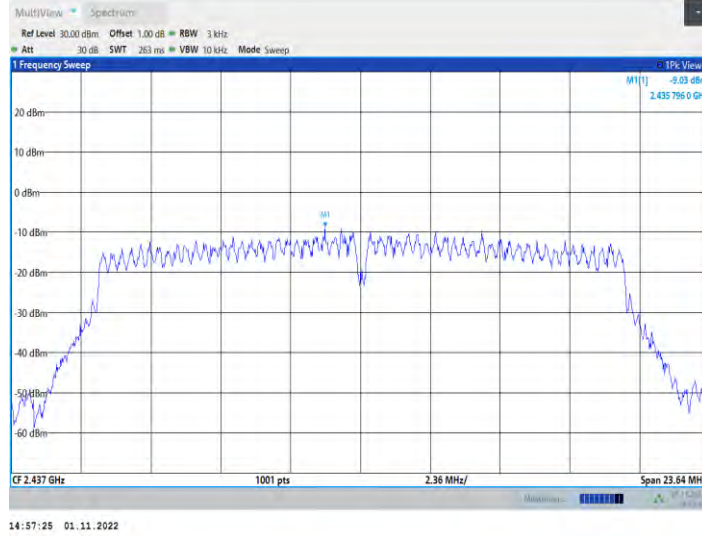


11n20MIMO_Ant4_2412

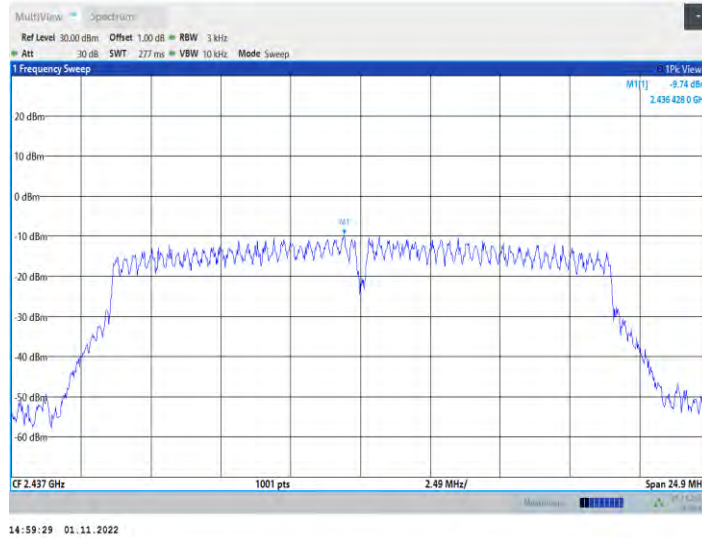


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11n20MIMO_Ant1_2437



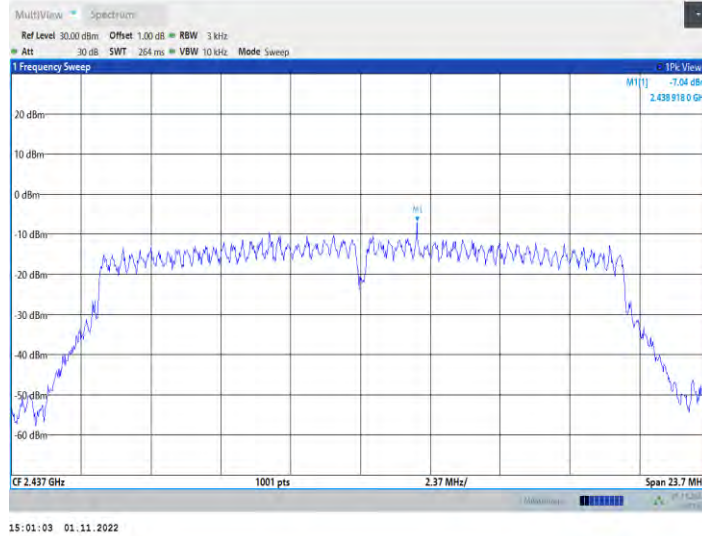
11n20MIMO_Ant2_2437



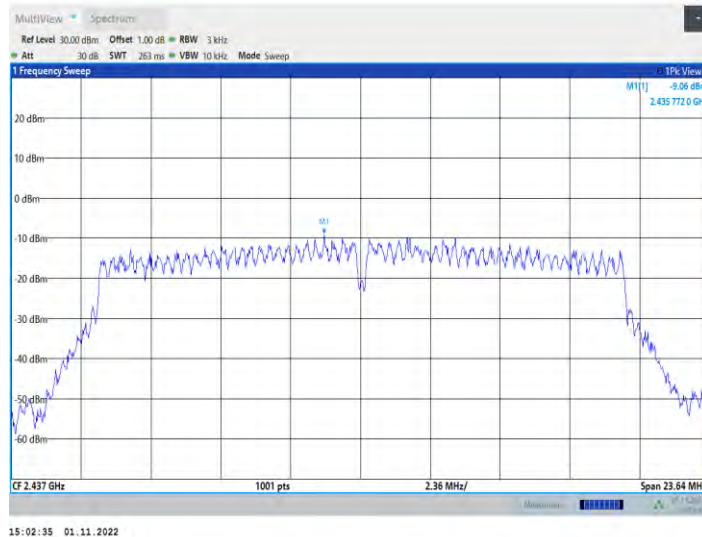
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11n20MIMO_Ant3_2437



11n20MIMO_Ant4_2437

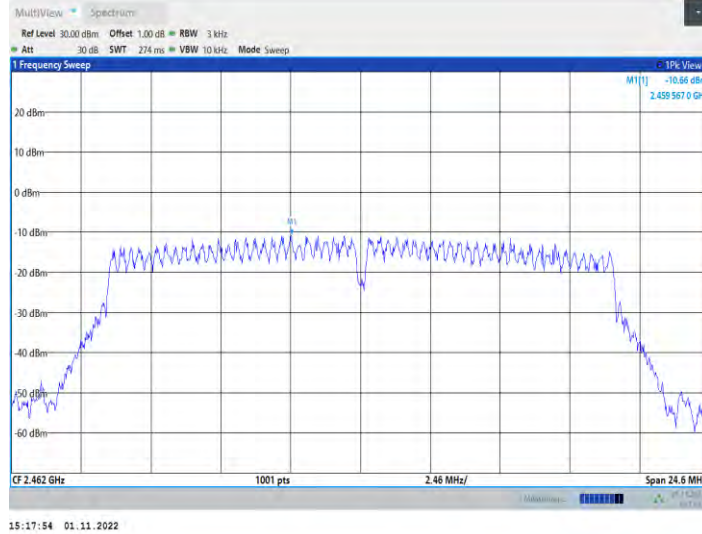


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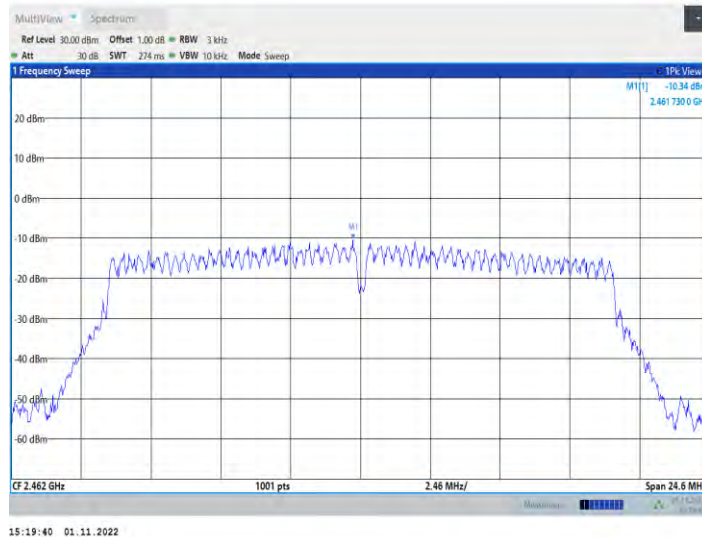
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11n20MIMO_Ant1_2462



11n20MIMO_Ant2_2462

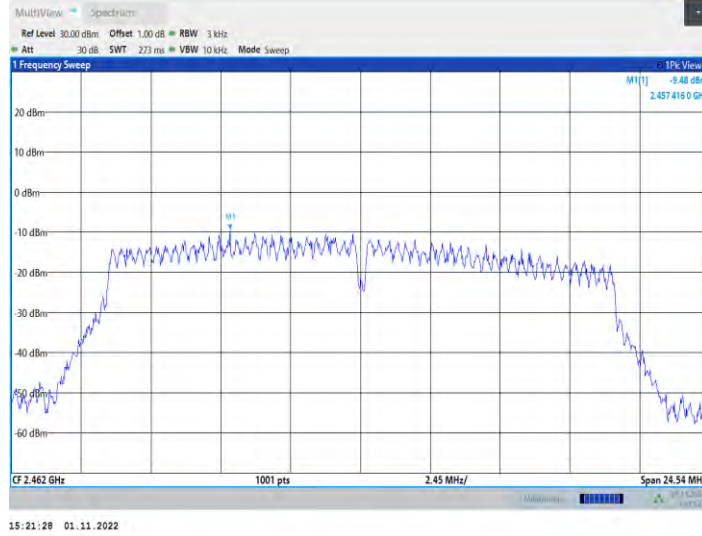


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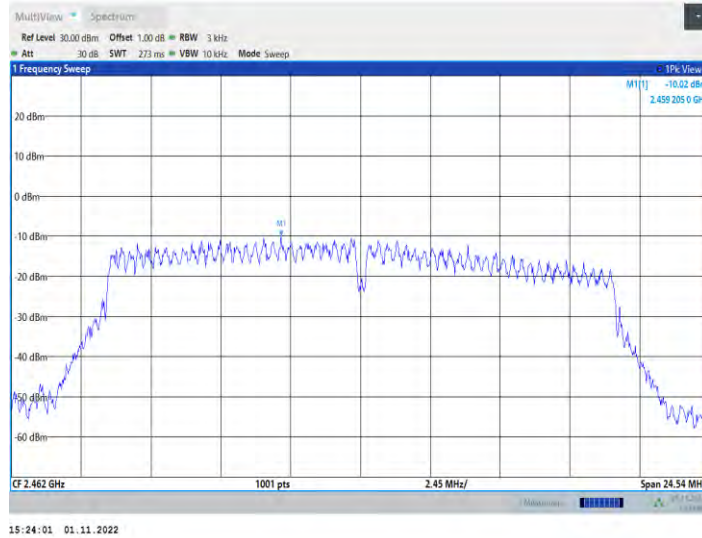
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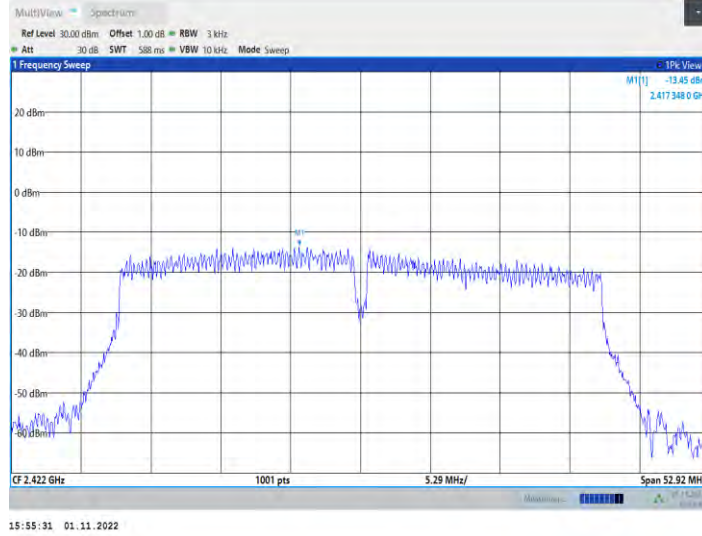


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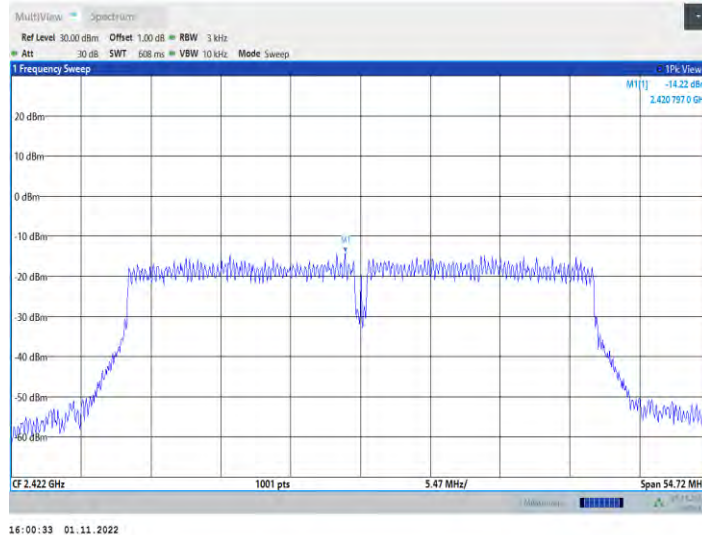
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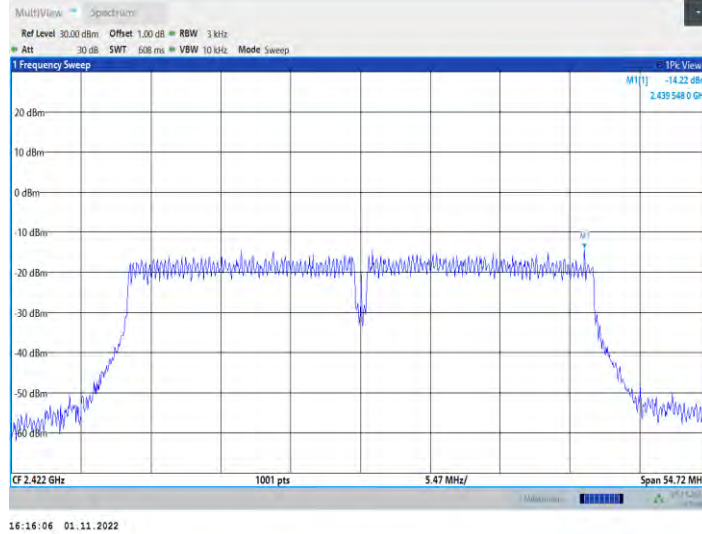
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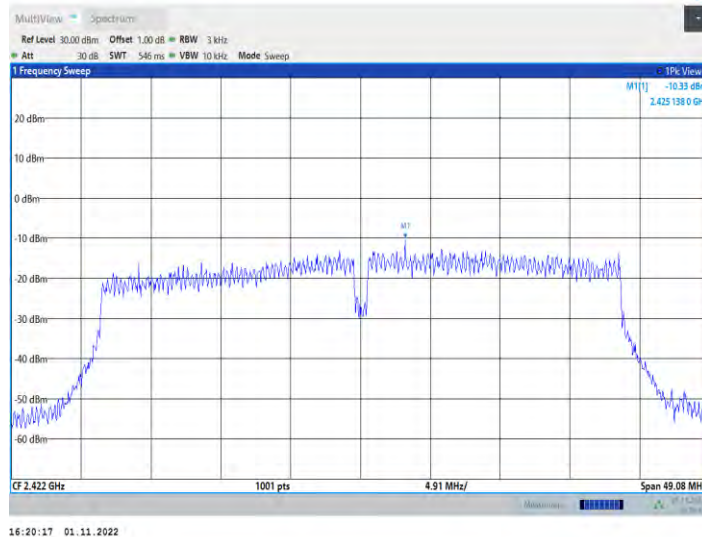
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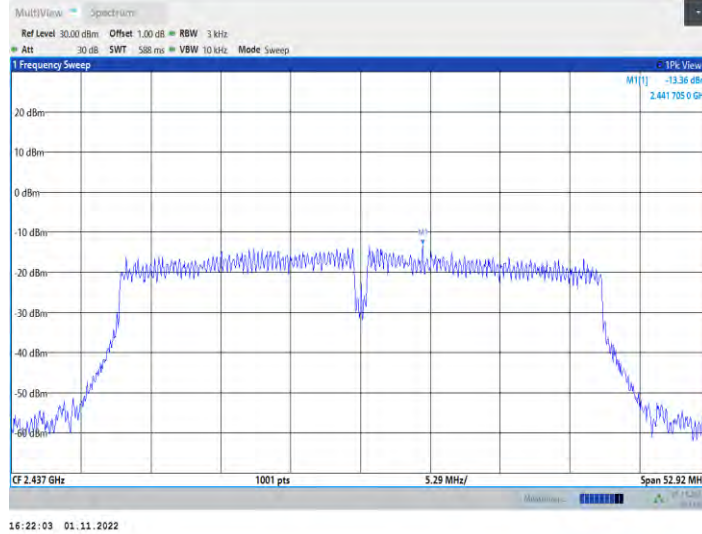


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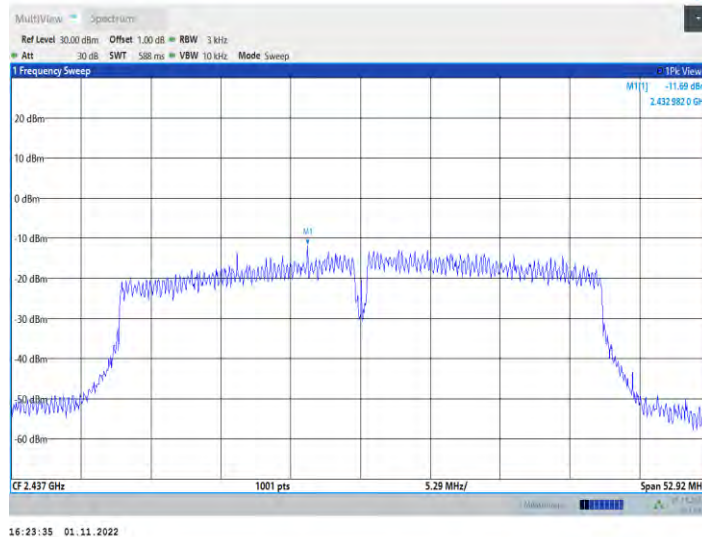
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