



TEST REPORT

Application No.: HR/2021/B0010
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: AF51Y
Trade Mark: QUECTEL
FCC ID: XMR202201AF51Y
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2022/2/12
Date of Test: 2022/2/22 to 2022/3/31
Date of Issue: 2022/4/2

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

Panta Sun
Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/31		Original
02		2022/4/2		Add A2LA+ILAC logo

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

Remark: This report supersedes our previous report SUHR/2021/B001003, issued on 2021-03-31, which is hereby deemed null and void.



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2 Test Summary

Test Item	FCC Rules No.	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

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

3.2 Test Location

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

3.3 Test Facility

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

• **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:	Wi-Fi & Bluetooth Module
Model No.:	AF51Y
Trade Mark:	QUECTEL
Hardware Version:	R1.0
Software Version:	AG525RGLAAR01A16M4G_OCPU_01.011 (Remark: the SW of branch is Post-CS[13]0.0.125.1)
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth)
Operation Frequency:	2400 MHz -2483.5MHz $f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: - f_c = "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) : OFDM IEEE for 802.11n(HT40) : OFDM
Sample Type:	<input type="checkbox"/> Portable Device, <input checked="" type="checkbox"/> Module
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input checked="" type="checkbox"/> MIMO (for 802.11b/g/n): 2 Tx & 2 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client -1.97dBi(Ant1); -1.38dBi(Ant2);
RF Cable*:	<input checked="" type="checkbox"/> Provided by client 0.5dB

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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Operation Frequency of each channel (802.11b/g/n HT20)							
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)							
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)		Frequency for 802.11n (HT40)			
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(℃)	Voltage(V)
NTNV	22~23	3.8
LTNV	-40	3.8
HTNV	85	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

Manufacturer	Description	Model
Quectel	Mother board	V2X&5G-EVB
Qualcomm	Test Software	QRCT4 tool
Dong Guan City GangQi Electronic Co.,Ltd	Adapter	QG36-120300-AX
JONKEY	USB cable	XY02-354-SAM-TYPE-C
Amphenol	Antenna	M3 MIMO Antenna

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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)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>The antenna is External on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.97dBi(Ant1); -1.38dBi(Ant2).</p>	

Note:

Frequency	Gain1	Gain2	Directional Gain
2412-2462	-1.97	-1.38	-1.66
<p>Remark: Refer to KDB662911 D01 Multiple Transmitter Output v02r01.</p> <p>d) <i>Unequal antenna gains, with equal transmit powers.</i> For antenna gains given by G_1, G_2, \dots, G_N dBi</p> <p>(i) If transmit signals are <i>correlated</i>, 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.]</p> <p>(ii) If all transmit signals are <i>completely uncorrelated</i>, then Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi</p>			



4.2 AC Power Line Conducted Emissions

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



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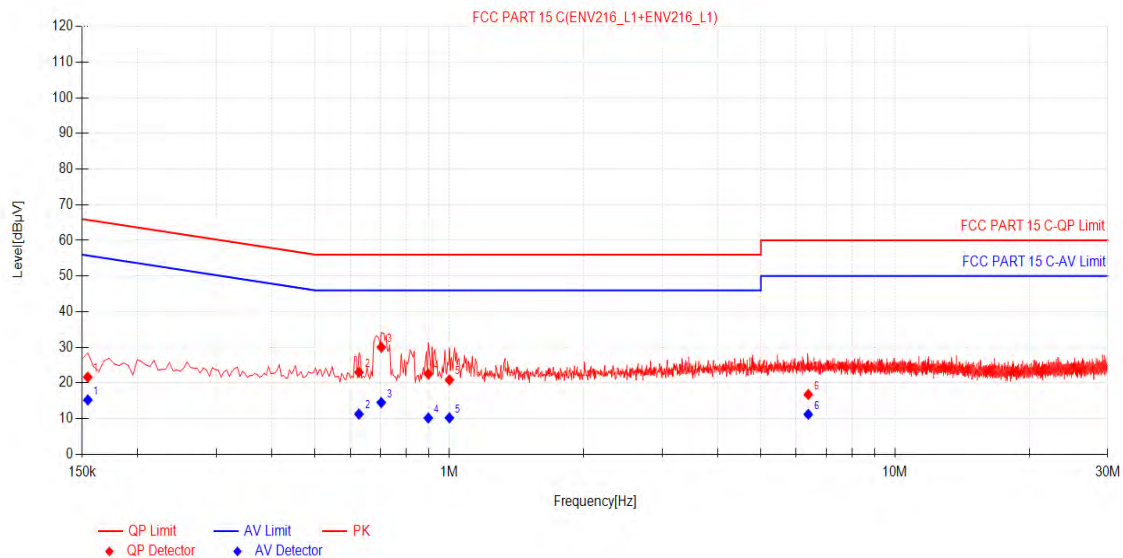
Test Setup:	
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Charge + Transmitting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



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	0.1545	10.64	21.67	65.75	44.08	15.24	55.75	40.51	PASS
2	0.6270	10.52	23.02	56.00	32.98	11.27	46.00	34.73	PASS
3	0.7035	10.58	30.03	56.00	25.97	14.52	46.00	31.48	PASS
4	0.8970	10.60	22.51	56.00	33.49	10.19	46.00	35.81	PASS
5	1.0005	10.49	20.87	56.00	35.13	10.22	46.00	35.78	PASS
6	6.3870	10.68	16.77	60.00	43.23	11.22	50.00	38.78	PASS

Remark:

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



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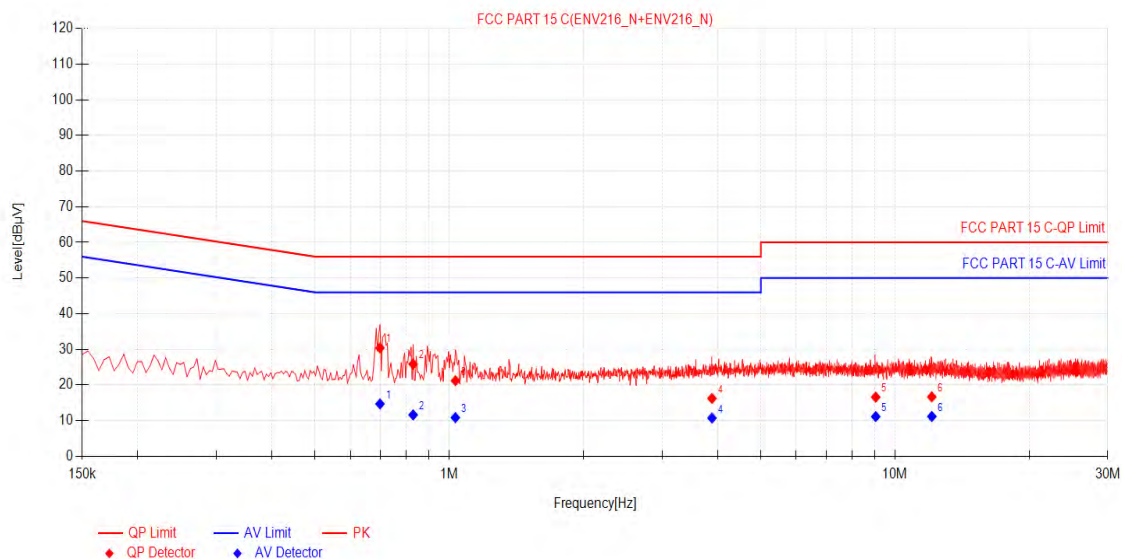
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Neutral Line:



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	0.6990	10.81	30.41	56.00	25.59	14.69	46.00	31.31	PASS
2	0.8295	10.79	25.87	56.00	30.13	11.62	46.00	34.38	PASS
3	1.0320	10.66	21.21	56.00	34.79	10.86	46.00	35.14	PASS
4	3.8850	10.73	16.24	56.00	39.76	10.74	46.00	35.26	PASS
5	9.0510	10.63	16.61	60.00	43.39	11.14	50.00	38.86	PASS
6	12.0930	10.65	16.69	60.00	43.31	11.18	50.00	38.82	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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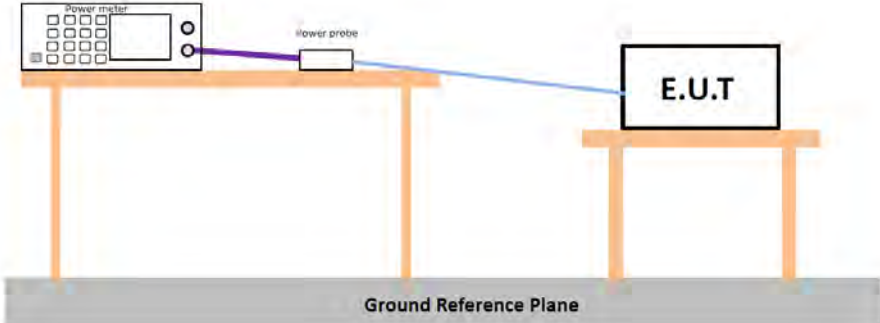
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 <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:	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); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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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); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :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); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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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); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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	



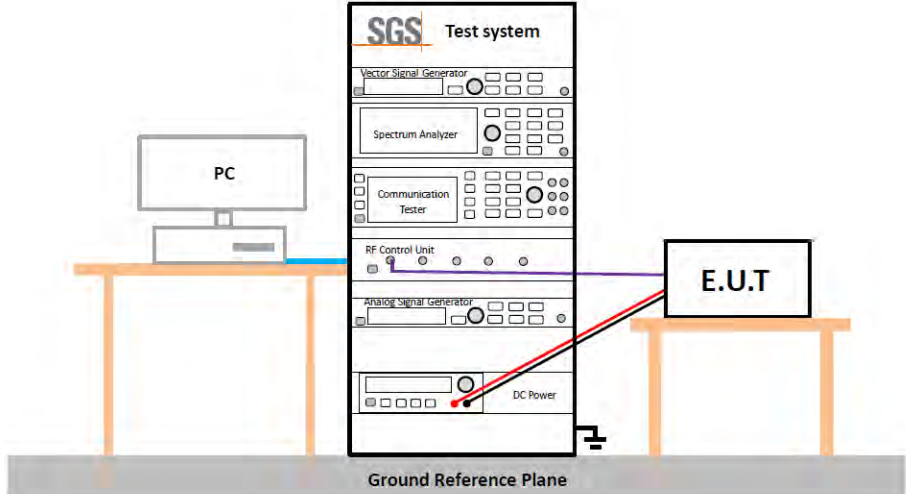
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4.8 RF Conducted Spurious Emissions

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); 13.5Mbps of rate is the worst case of 802.11n(HT40).
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)				
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.					

Test Setup:

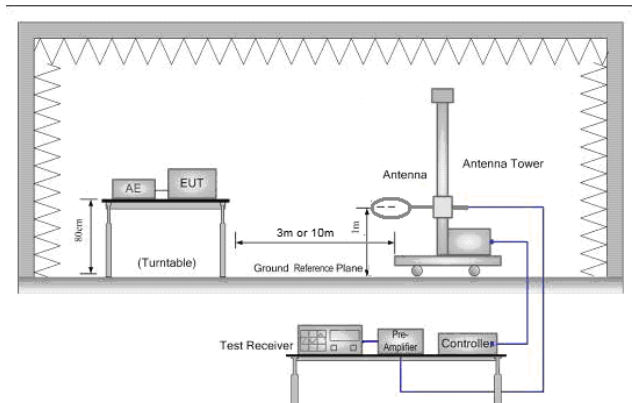


Figure 1. Below 30MHz

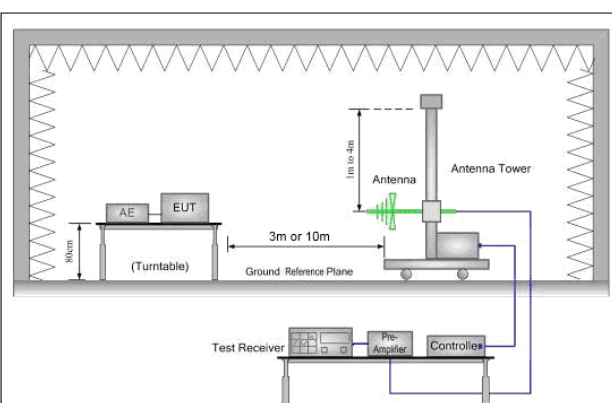


Figure 2. 30MHz to 1GHz



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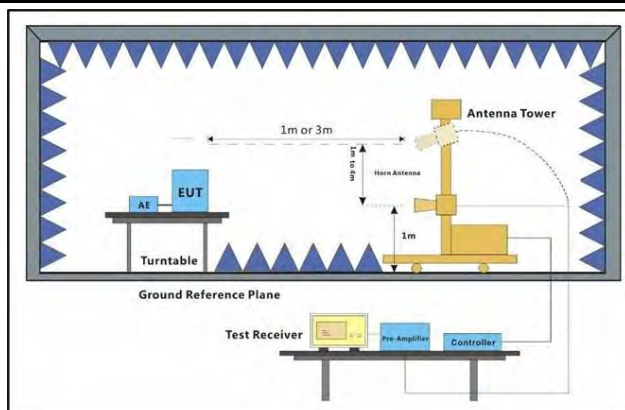


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz(9KHz start), 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(10th harmonic), the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT 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. Test the EUT in the lowest channel, the middle 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. 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 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>Test Configuration:</p>	<p>Measurements Below 1000MHz</p>



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	<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>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11b;</p> <p>6Mbps of rate is the worst case of 802.11g;</p> <p>6.5Mbps of rate is the worst case of 802.11n(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11n(HT40);</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
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:

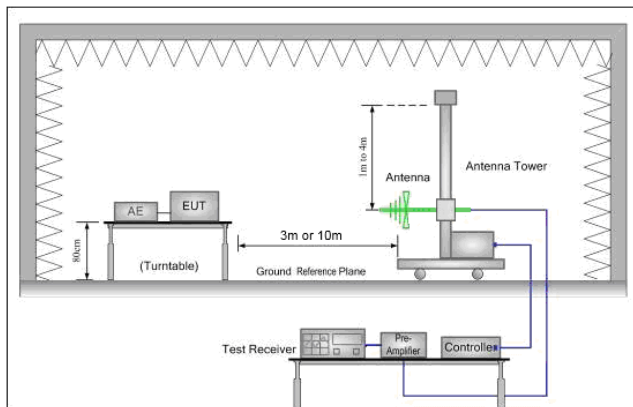


Figure 1. 30MHz to 1GHz

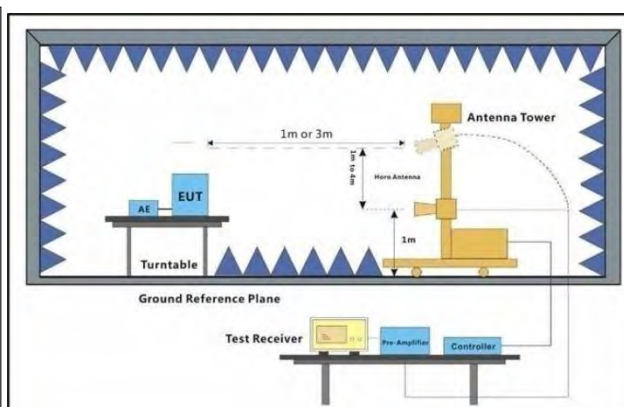


Figure 2. Above 1 GHz



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Test Procedure:	<p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • 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>Value = Reading + Factor(Antenna Factor + Cable loss).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.



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	Charge + Transmitting mode.
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11b;</p> <p>6Mbps of rate is the worst case of 802.11g;</p> <p>6.5Mbps of rate is the worst case of 802.11n(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11n(HT40);</p> <p>Only the worst case is recorded in the report.</p>
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	$\pm 7.25 \times 10^{-8} \text{ GHz}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 7.25 \times 10^{-8} \text{ GHz}$
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	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/19	2023/2/18
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/16	2023/2/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/16	2023/2/15
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	2022/2/16	2023/2/15
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15



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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	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15
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	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15
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
Measurement Software	Tonscend	JS32-RSE 3.0.0.2	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	8.04	2407.96	2416.00	≥0.5	PASS
	Ant2	2412	8.04	2407.96	2416.00	≥0.5	PASS
	Ant1	2437	8.04	2432.96	2441.00	≥0.5	PASS
	Ant2	2437	8.04	2432.96	2441.00	≥0.5	PASS
	Ant1	2462	8.04	2457.96	2466.00	≥0.5	PASS
	Ant2	2462	8.04	2457.96	2466.00	≥0.5	PASS
11n40SISO	Ant1	2422	33.84	2405.68	2439.52	≥0.5	PASS
	Ant2	2422	28.80	2409.44	2438.24	≥0.5	PASS
	Ant1	2437	33.84	2420.68	2454.52	≥0.5	PASS
	Ant2	2437	32.64	2421.88	2454.52	≥0.5	PASS
	Ant1	2452	30.08	2436.96	2467.04	≥0.5	PASS
	Ant2	2452	35.04	2434.48	2469.52	≥0.5	PASS
11g-CDD	Ant1	2412	13.88	2405.64	2419.52	≥0.5	PASS
	Ant2	2412	15.08	2404.44	2419.52	≥0.5	PASS
	Ant1	2437	15.08	2429.48	2444.56	≥0.5	PASS
	Ant2	2437	15.08	2429.44	2444.52	≥0.5	PASS
	Ant1	2462	13.80	2455.72	2469.52	≥0.5	PASS
	Ant2	2462	12.60	2456.96	2469.56	≥0.5	PASS
11n20MIMO	Ant1	2412	12.96	2406.56	2419.52	≥0.5	PASS
	Ant2	2412	13.84	2405.68	2419.52	≥0.5	PASS
	Ant1	2437	15.08	2429.44	2444.52	≥0.5	PASS
	Ant2	2437	12.60	2429.44	2442.04	≥0.5	PASS
	Ant1	2462	13.80	2455.68	2469.48	≥0.5	PASS
	Ant2	2462	13.00	2456.92	2469.92	≥0.5	PASS
11n40MIMO	Ant1	2422	30.00	2406.96	2436.96	≥0.5	PASS
	Ant2	2422	33.84	2405.68	2439.52	≥0.5	PASS
	Ant1	2437	31.36	2420.68	2452.04	≥0.5	PASS
	Ant2	2437	33.84	2420.68	2454.52	≥0.5	PASS
	Ant1	2452	32.56	2435.68	2468.24	≥0.5	PASS



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	Ant2	2452	32.56	2434.48	2467.04	≥ 0.5	PASS
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Test Graphs

11b Ant1 2412



11b Ant2 2412



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11b_Ant1_2462



11b_Ant2_2462



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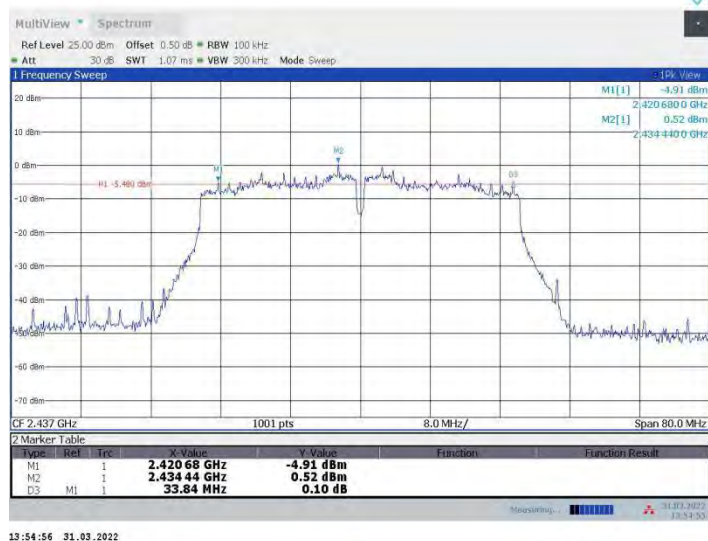
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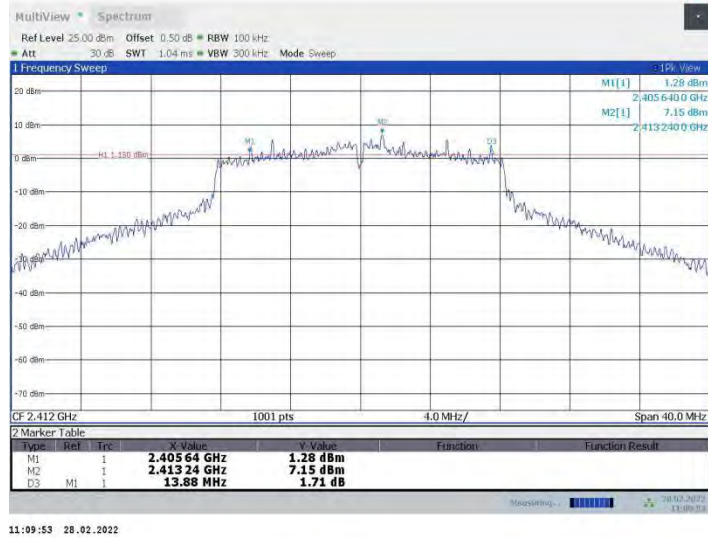
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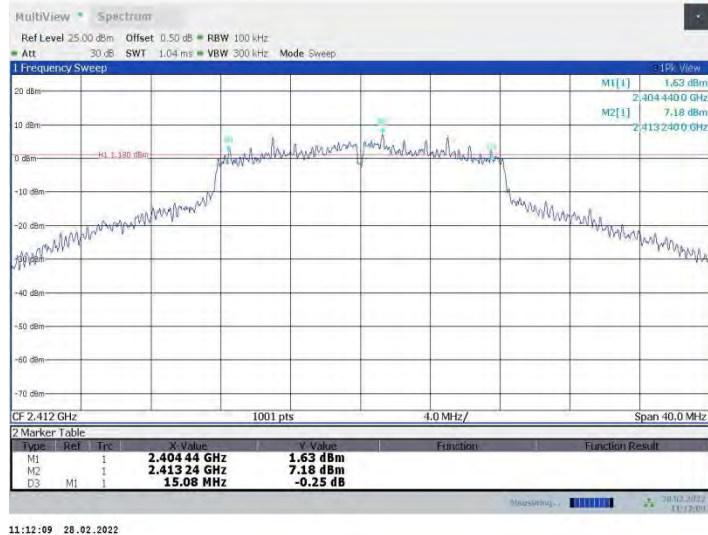
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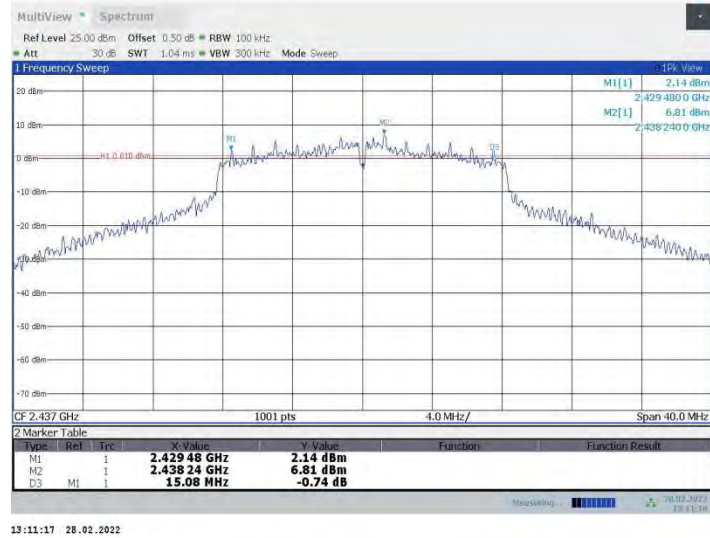


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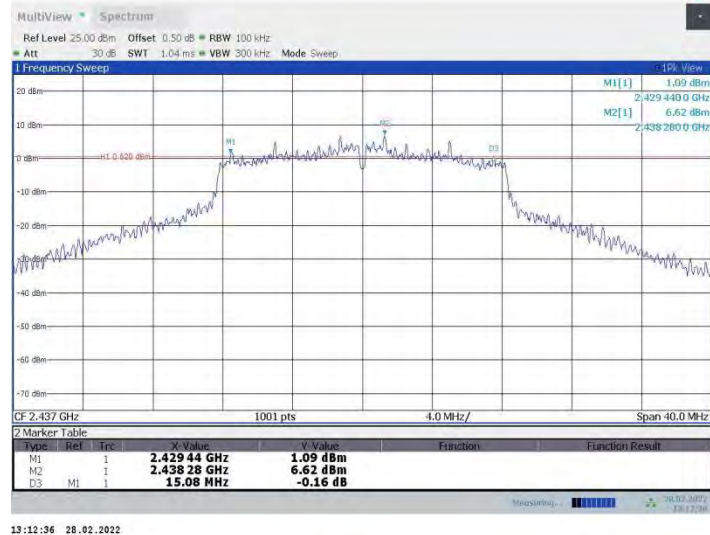
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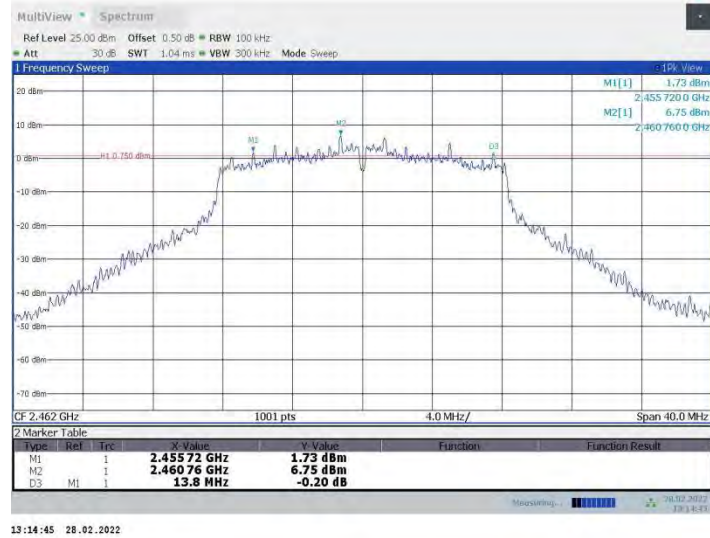


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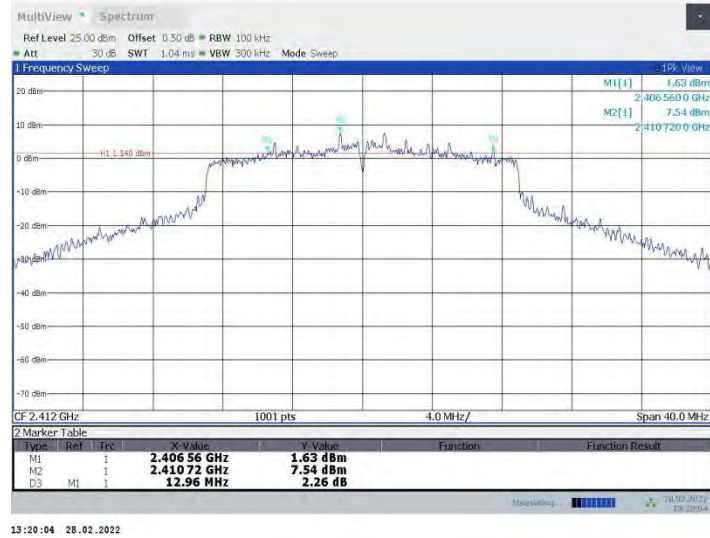


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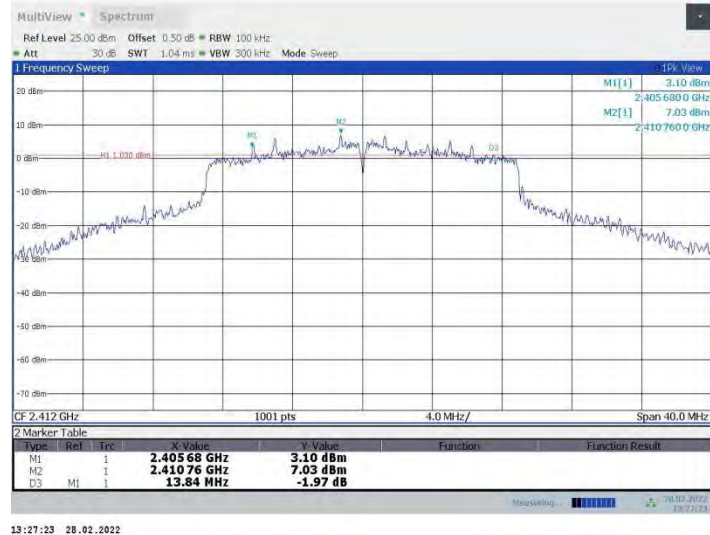
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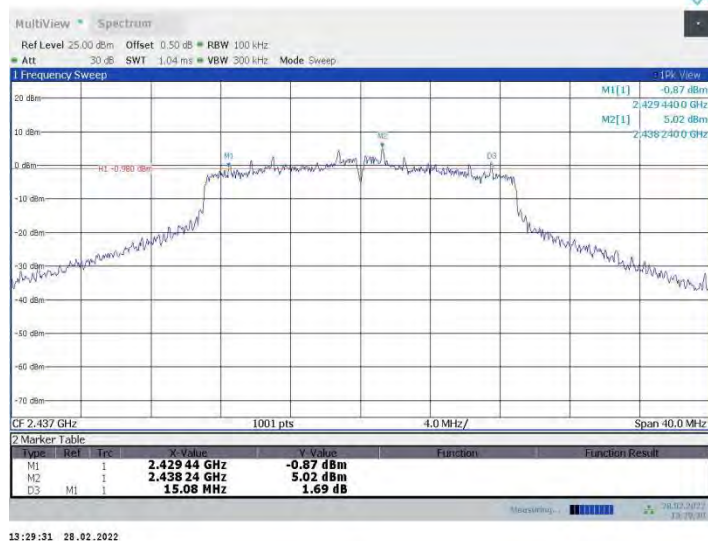
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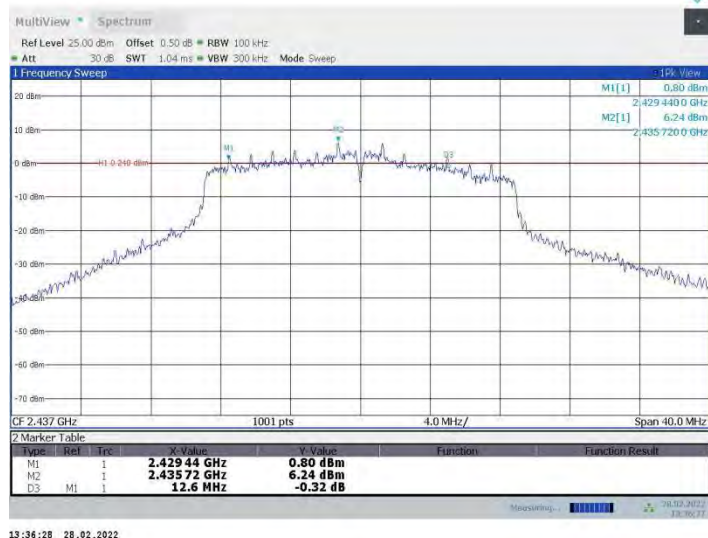
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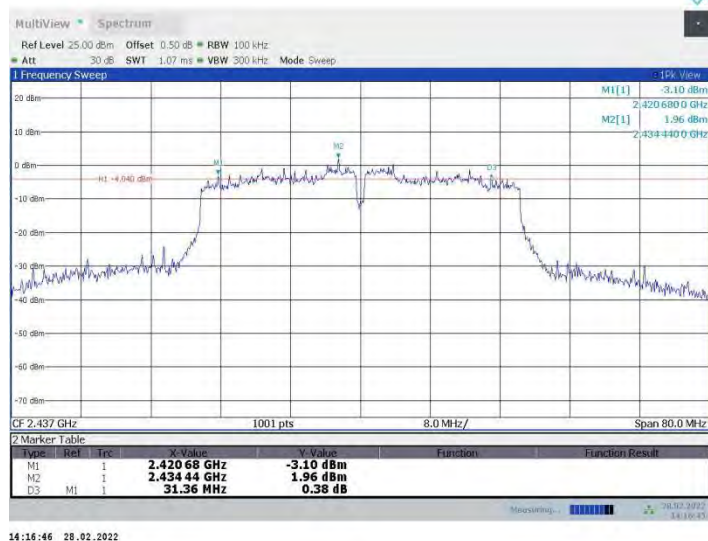
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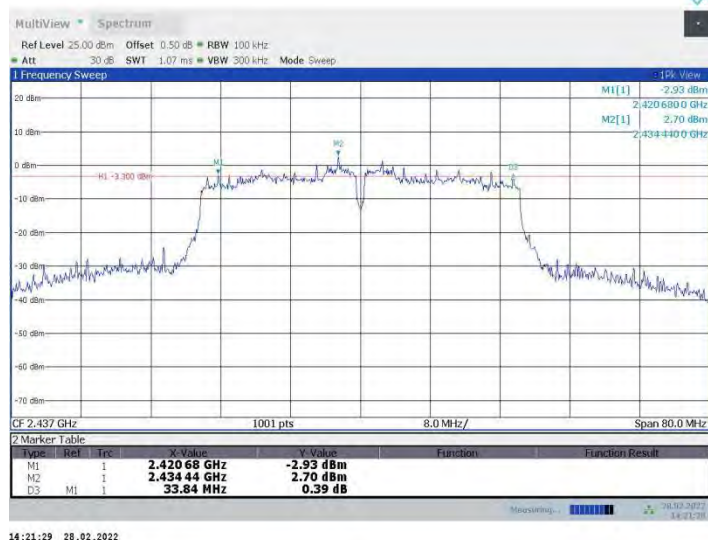
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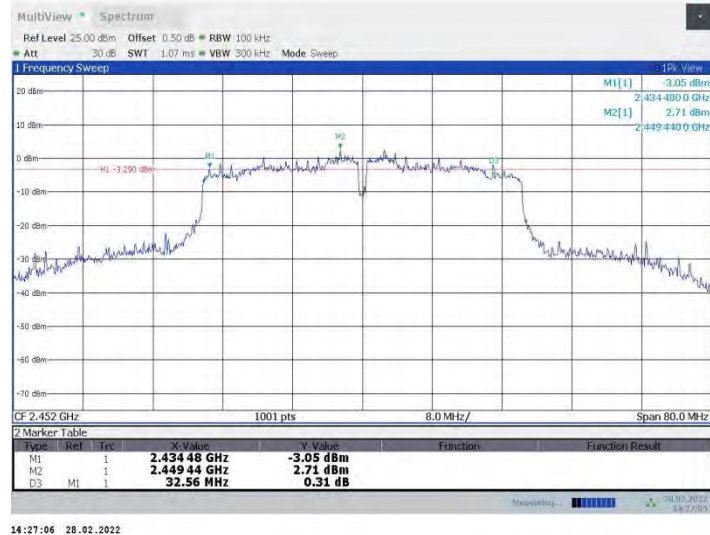
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11b	Ant1	2412	14.292	2404.815	2419.107
	Ant2	2412	14.263	2404.629	2418.892
	Ant1	2437	14.252	2429.789	2444.041
	Ant2	2437	14.242	2429.865	2444.108
	Ant1	2462	14.209	2454.847	2469.056
	Ant2	2462	14.296	2454.756	2469.052
11n40SISO	Ant1	2422	36.123	2403.952	2440.075
	Ant2	2422	36.205	2403.955	2440.160
	Ant1	2437	36.205	2418.828	2455.033
	Ant2	2437	36.105	2419.028	2455.133
	Ant1	2452	36.131	2433.902	2470.034
	Ant2	2452	36.159	2433.833	2469.992
11g-CDD	Ant1	2412	17.3	2403.313	2420.613
	Ant2	2412	19.11	2402.402	2421.512
	Ant1	2437	18.108	2427.985	2446.094
	Ant2	2437	17.18	2428.307	2445.487
	Ant1	2462	16.554	2453.720	2470.274
	Ant2	2462	16.664	2453.956	2470.620
11n20MIMO	Ant1	2412	18.452	2402.846	2421.298
	Ant2	2412	19.344	2402.387	2421.731
	Ant1	2437	18.186	2427.868	2446.055
	Ant2	2437	17.781	2427.970	2445.750
	Ant1	2462	18.021	2452.979	2471.000
	Ant2	2462	17.75	2453.395	2471.146
11n40MIMO	Ant1	2422	36.286	2403.832	2440.118
	Ant2	2422	36.408	2403.888	2440.296
	Ant1	2437	36.423	2418.798	2455.220
	Ant2	2437	36.426	2418.758	2455.184



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	Ant1	2452	36.227	2433.853	2470.080
	Ant2	2452	36.429	2433.748	2470.176



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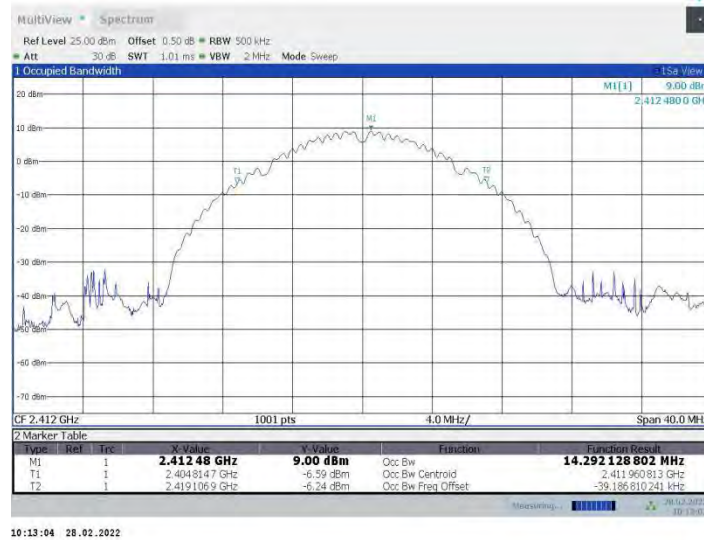
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Test Graphs

11b Ant1 2412



11b Ant2 2412



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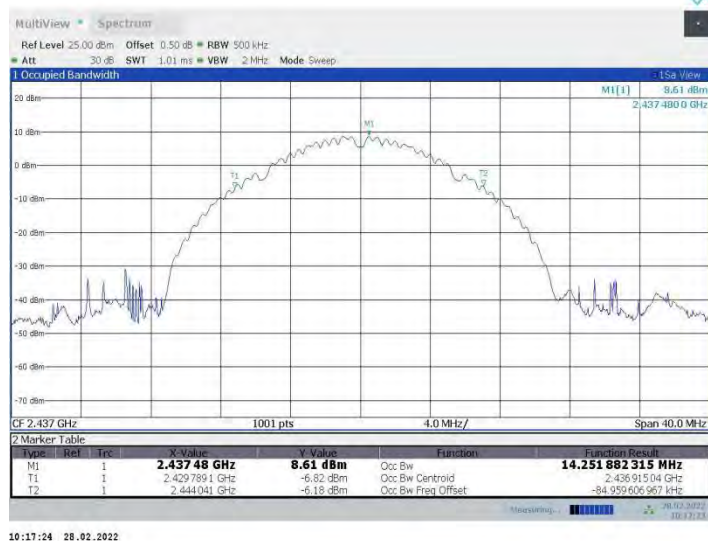
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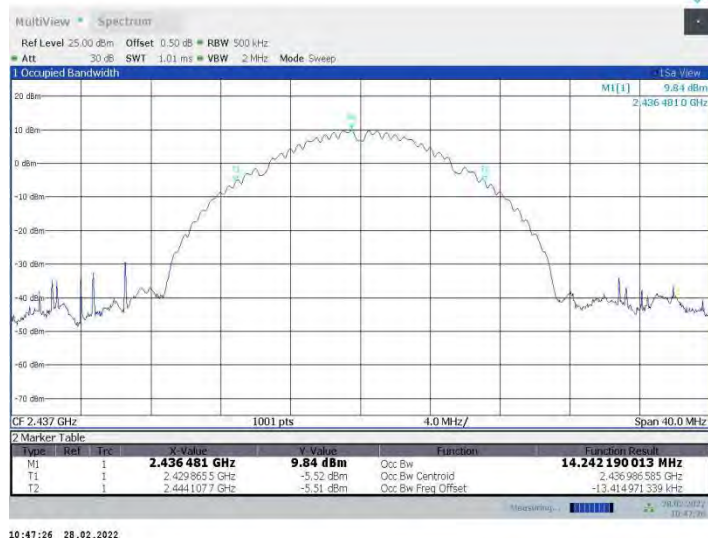
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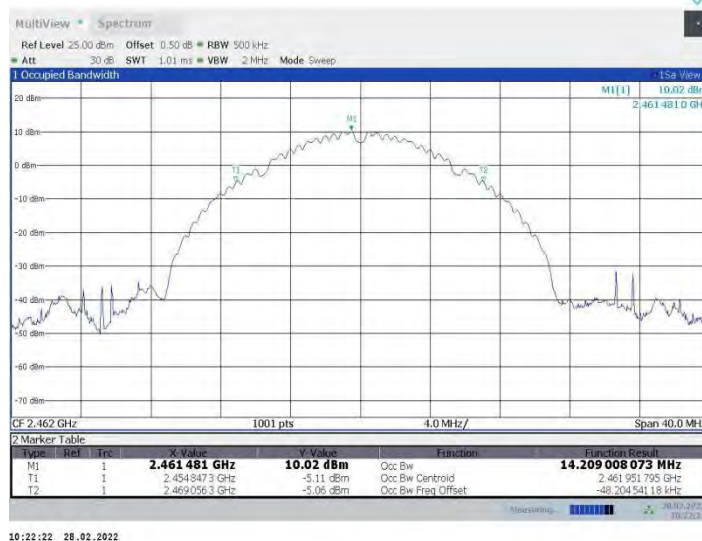
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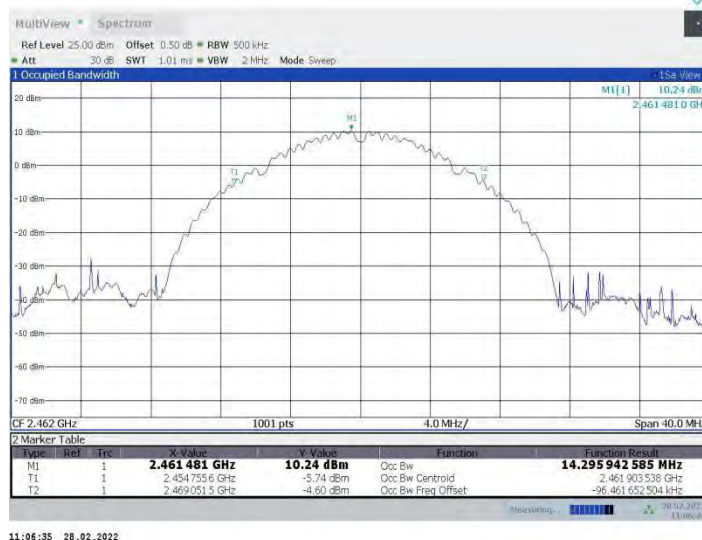
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11b_Ant1_2462



11b_Ant2_2462



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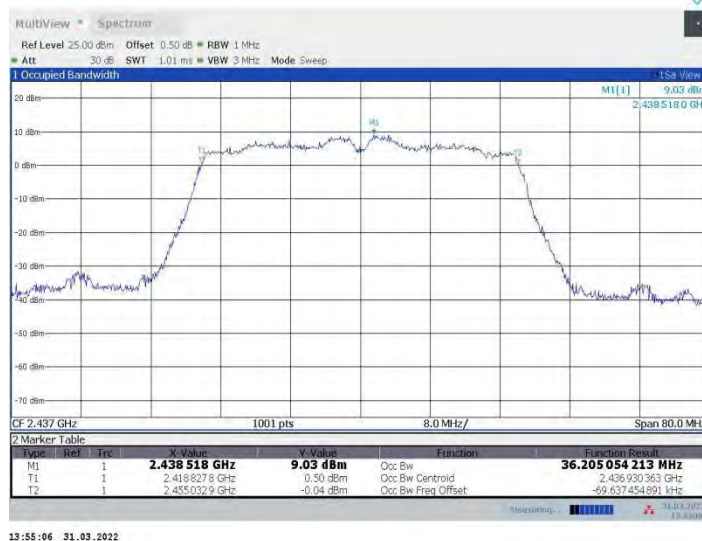
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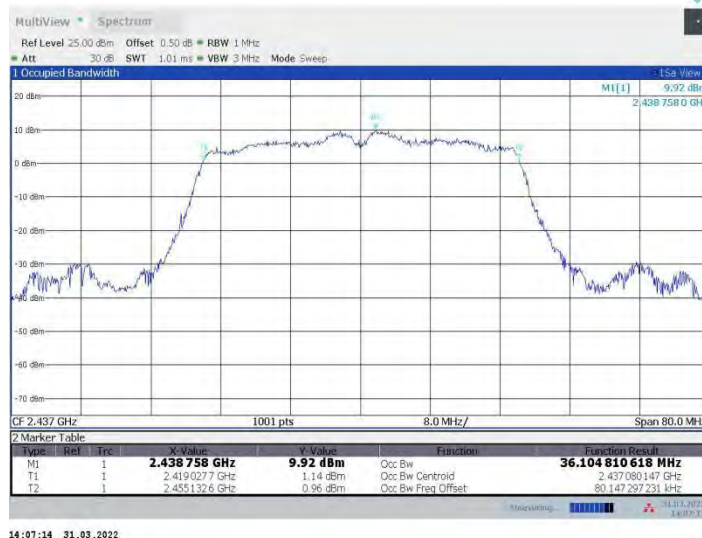
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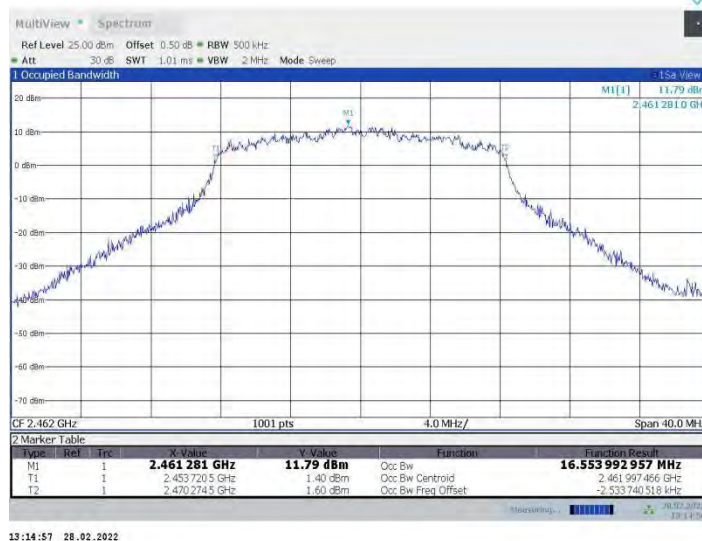


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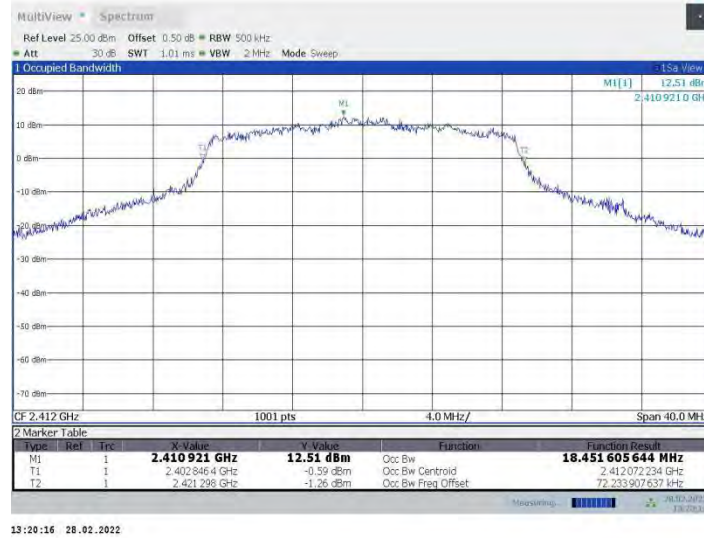


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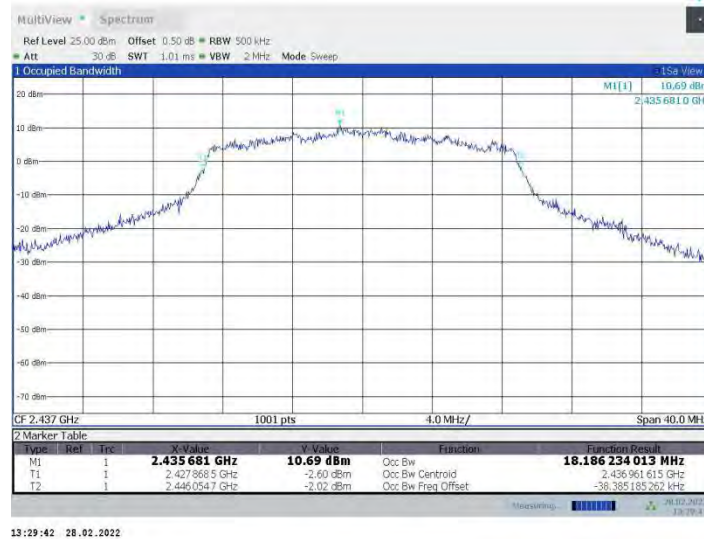


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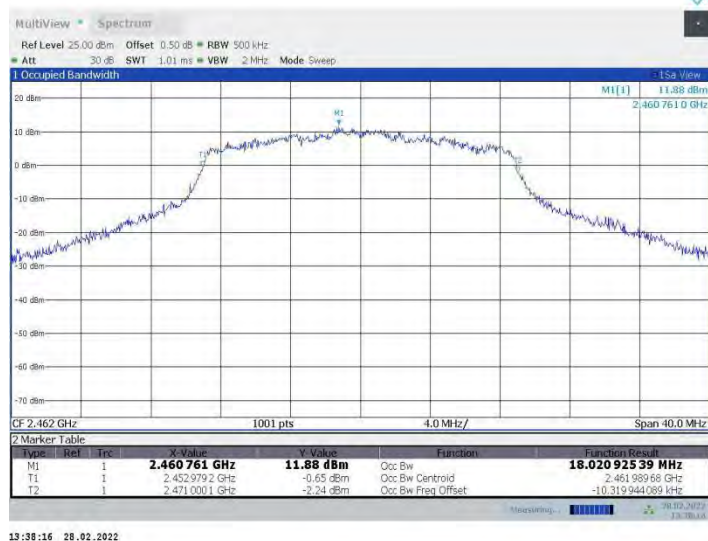
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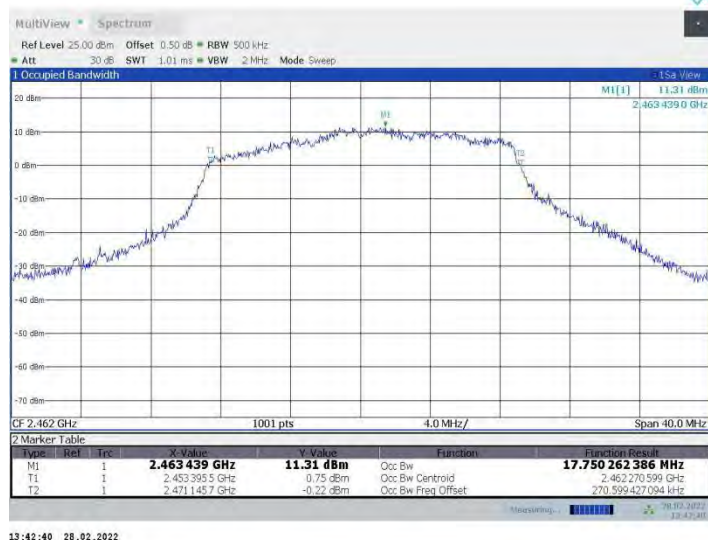
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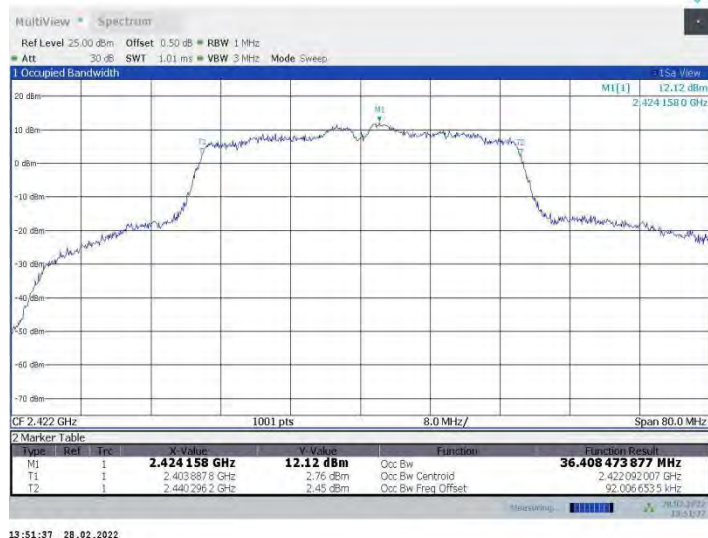
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11n40MIMO_Ant1_2422



11n40MIMO_Ant2_2422



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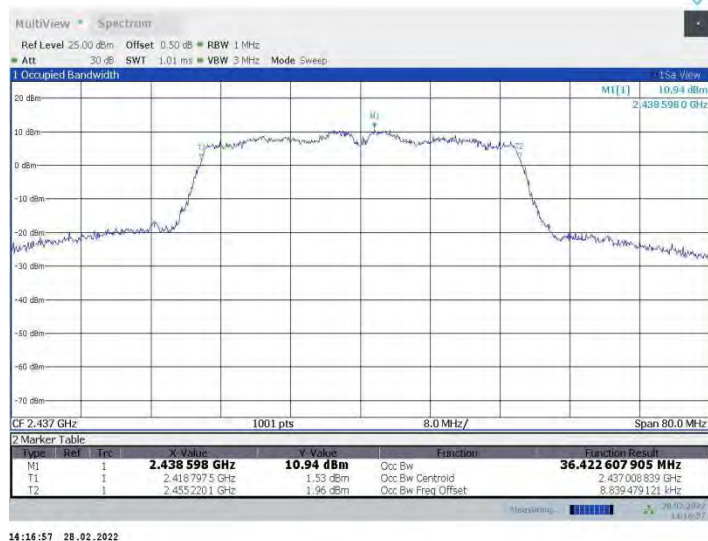
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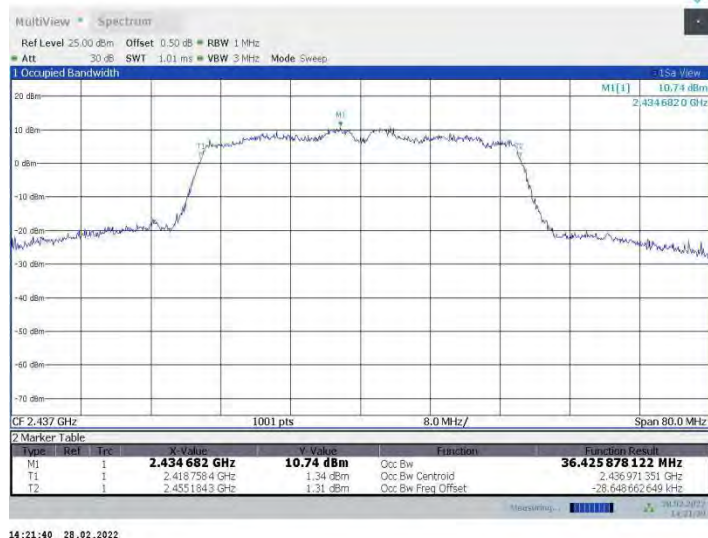
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11n40MIMO_Ant1_2437



11n40MIMO_Ant2_2437



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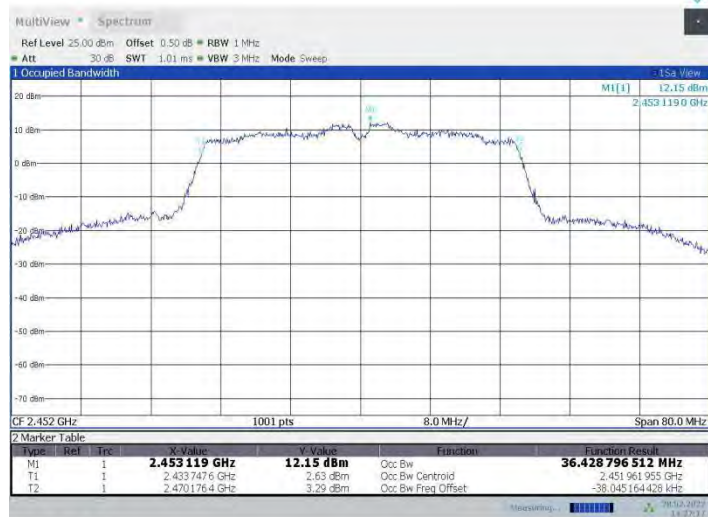
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11n40MIMO_Ant1_2452



14:29:12 28.02.2022

11n40MIMO_Ant2_2452



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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	19.67	≤30.00	PASS
	Ant2	2412	20.09	≤30.00	PASS
	Ant1	2437	19.79	≤30.00	PASS
	Ant2	2437	20.24	≤30.00	PASS
	Ant1	2462	20.11	≤30.00	PASS
	Ant2	2462	20.33	≤30.00	PASS
11n40SISO	Ant1	2422	19.98	≤30.00	PASS
	Ant2	2422	20.29	≤30.00	PASS
	Ant1	2437	19.96	≤30.00	PASS
	Ant2	2437	20.04	≤30.00	PASS
	Ant1	2452	19.76	≤30.00	PASS
	Ant2	2452	20.43	≤30.00	PASS
11g-CDD	Ant1	2412	20.89	≤30.00	PASS
	Ant2	2412	21.32	≤30.00	PASS
	total	2412	24.12	≤30.00	PASS
	Ant1	2437	20.67	≤30.00	PASS
	Ant2	2437	21.36	≤30.00	PASS
	total	2437	24.04	≤30.00	PASS
	Ant1	2462	21.00	≤30.00	PASS
	Ant2	2462	21.11	≤30.00	PASS
	total	2462	24.07	≤30.00	PASS
11n20MIMO	Ant1	2412	21.54	≤30.00	PASS
	Ant2	2412	21.87	≤30.00	PASS
	total	2412	24.72	≤30.00	PASS
	Ant1	2437	21.21	≤30.00	PASS
	Ant2	2437	22.21	≤30.00	PASS
	total	2437	24.75	≤30.00	PASS
	Ant1	2462	21.47	≤30.00	PASS
	Ant2	2462	22.23	≤30.00	PASS



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	total	2462	24.88	≤30.00	PASS
11n40MIMO	Ant1	2422	17.50	≤30.00	PASS
	Ant2	2422	18.18	≤30.00	PASS
	total	2422	20.86	≤30.00	PASS
	Ant1	2437	17.45	≤30.00	PASS
	Ant2	2437	17.76	≤30.00	PASS
	total	2437	20.62	≤30.00	PASS
	Ant1	2452	17.43	≤30.00	PASS
	Ant2	2452	18.29	≤30.00	PASS
	total	2452	20.89	≤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	-6.05	≤8.00	PASS
	Ant2	2412	-6.39	≤8.00	PASS
	Ant1	2437	-6.34	≤8.00	PASS
	Ant2	2437	-5.9	≤8.00	PASS
	Ant1	2462	-6.85	≤8.00	PASS
	Ant2	2462	-5.52	≤8.00	PASS
11n40SISO	Ant1	2422	-14.31	≤8.00	PASS
	Ant2	2422	-13.27	≤8.00	PASS
	Ant1	2437	-15.18	≤8.00	PASS
	Ant2	2437	-13.81	≤8.00	PASS
	Ant1	2452	-15	≤8.00	PASS
	Ant2	2452	-13.4	≤8.00	PASS
11g-CDD	Ant1	2412	-7.57	≤8.00	PASS
	Ant2	2412	-7.67	≤8.00	PASS
	total	2412	-4.61	≤8.00	PASS
	Ant1	2437	-7.48	≤8.00	PASS
	Ant2	2437	-7.99	≤8.00	PASS
	total	2437	-4.72	≤8.00	PASS
	Ant1	2462	-8.4	≤8.00	PASS
	Ant2	2462	-8.15	≤8.00	PASS
	total	2462	-5.26	≤8.00	PASS
11n20MIMO	Ant1	2412	-8.21	≤8.00	PASS
	Ant2	2412	-7.73	≤8.00	PASS
	total	2412	-4.95	≤8.00	PASS
	Ant1	2437	-9.11	≤8.00	PASS
	Ant2	2437	-8.85	≤8.00	PASS
	total	2437	-5.97	≤8.00	PASS
	Ant1	2462	-8.9	≤8.00	PASS
	Ant2	2462	-8.52	≤8.00	PASS



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	total	2462	-5.70	≤8.00	PASS
11n40MIMO	Ant1	2422	-16.06	≤8.00	PASS
	Ant2	2422	-14.45	≤8.00	PASS
	total	2422	-12.17	≤8.00	PASS
	Ant1	2437	-16.44	≤8.00	PASS
	Ant2	2437	-14.36	≤8.00	PASS
	total	2437	-12.27	≤8.00	PASS
	Ant1	2452	-15.45	≤8.00	PASS
	Ant2	2452	-14.32	≤8.00	PASS
	total	2452	-11.84	≤8.00	PASS



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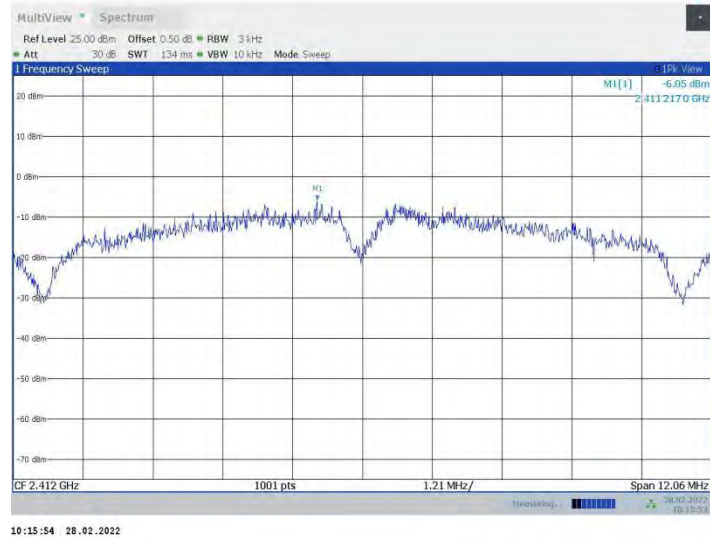
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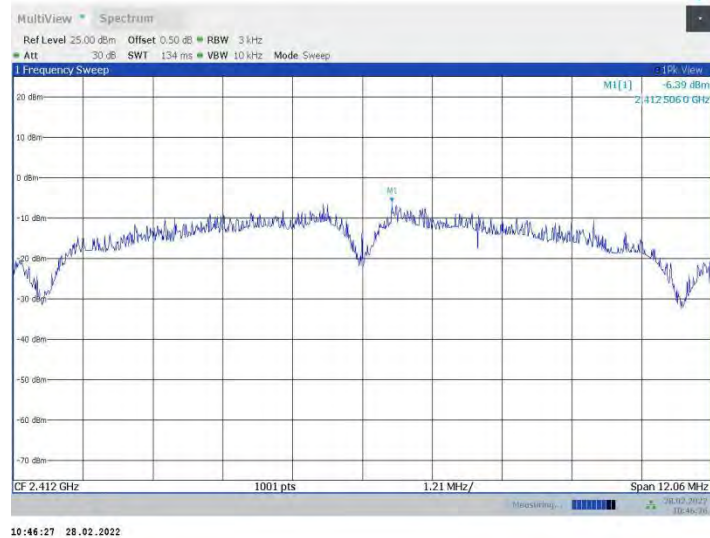
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Test Graphs

11b Ant1 2412



11b Ant2 2412



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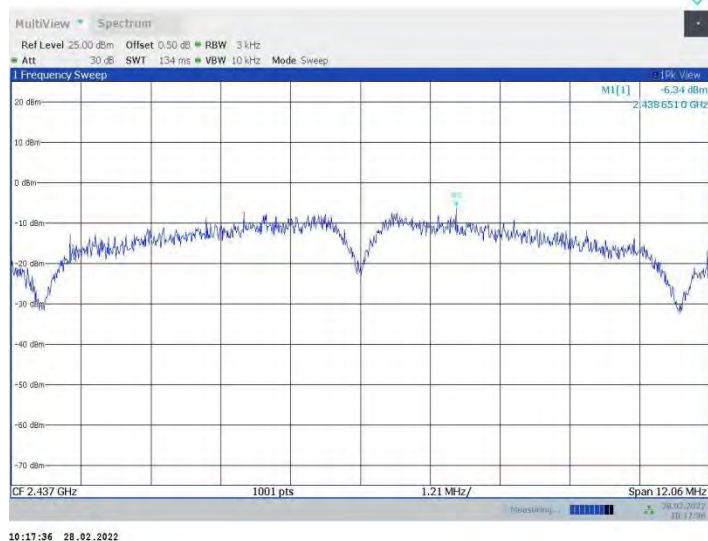
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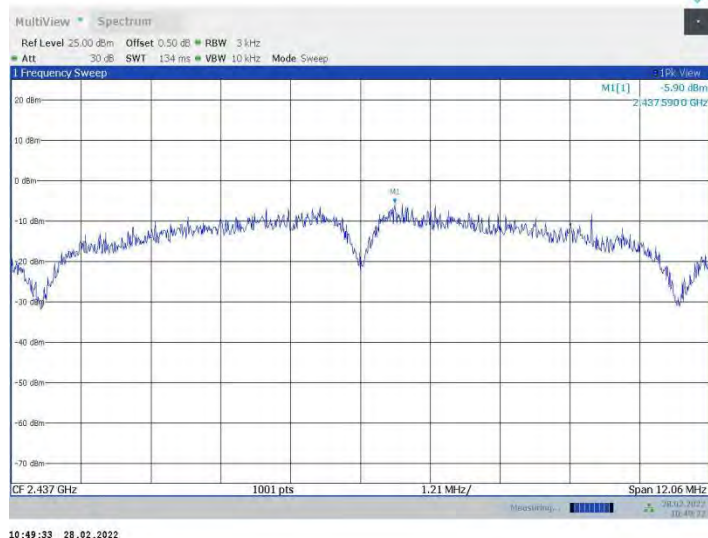
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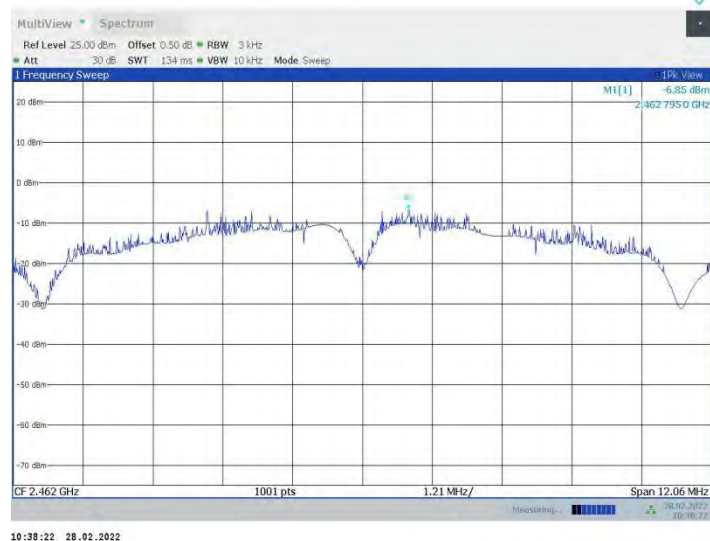
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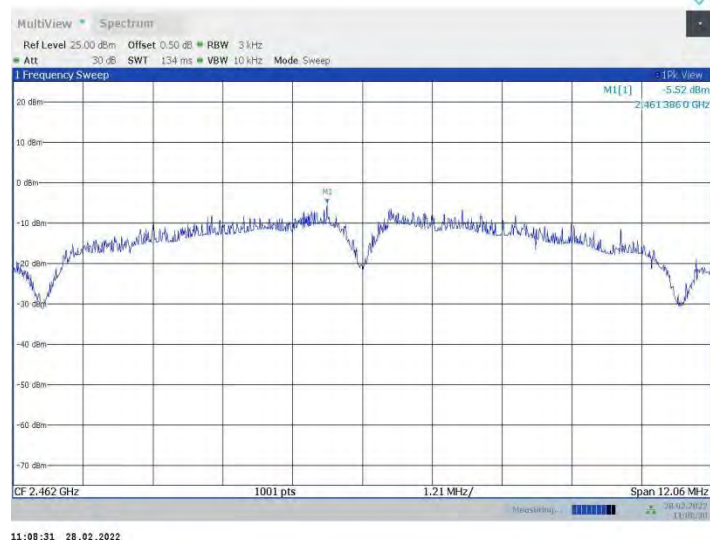
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11b_Ant2_2462



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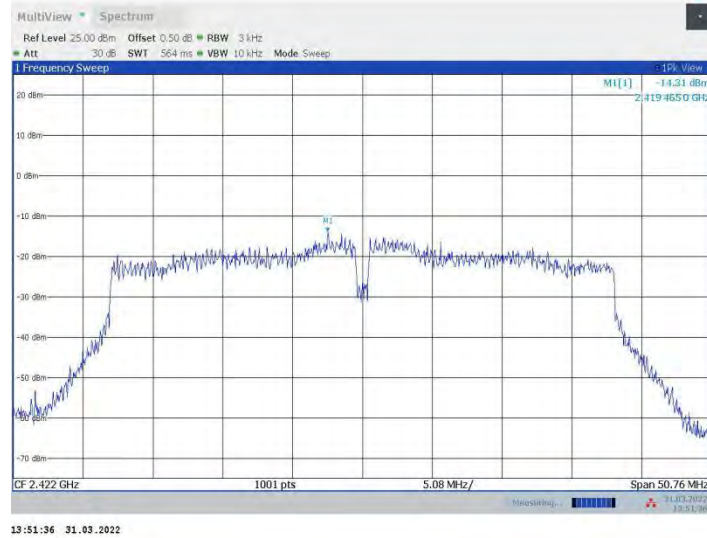
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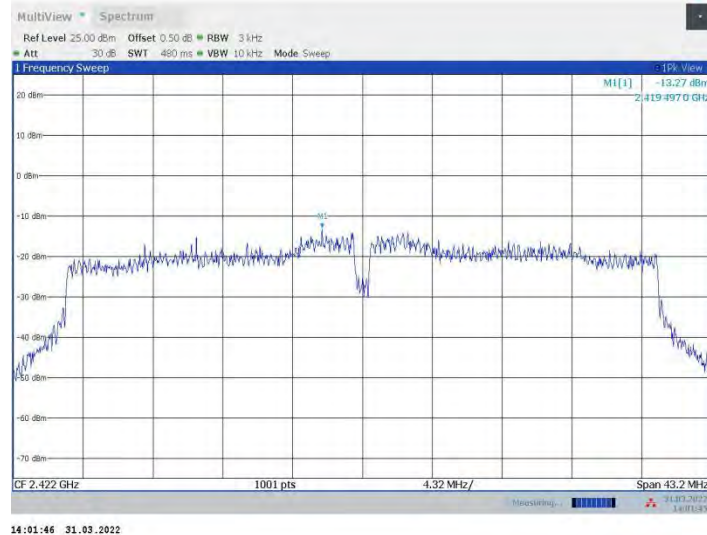
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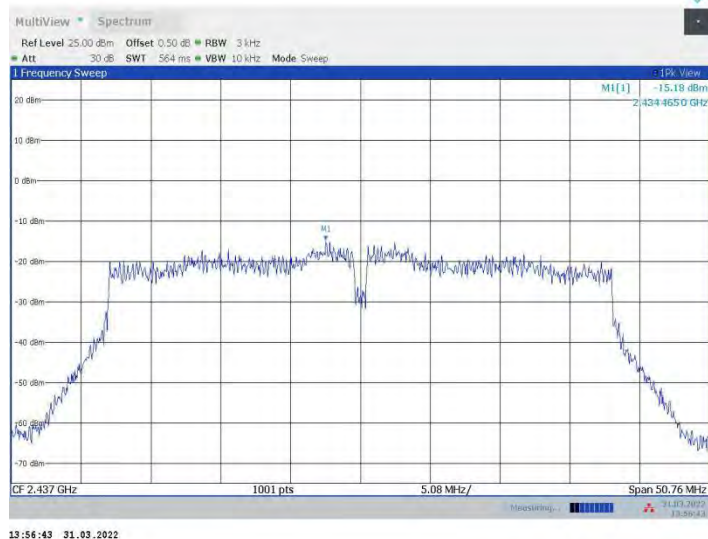
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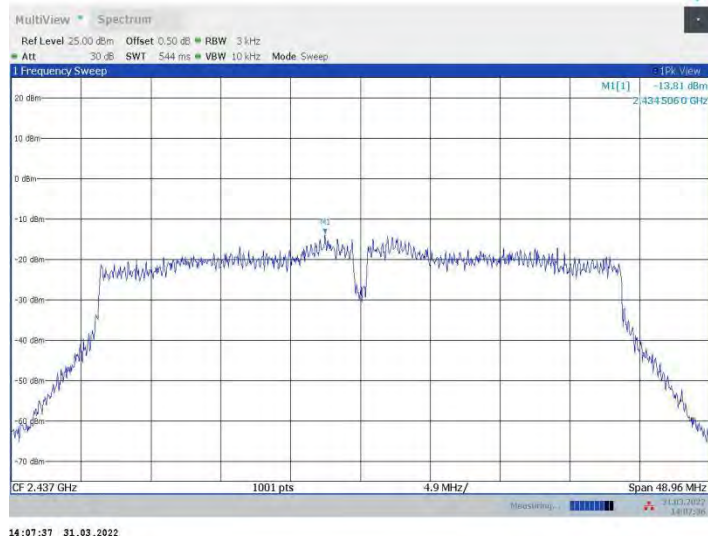
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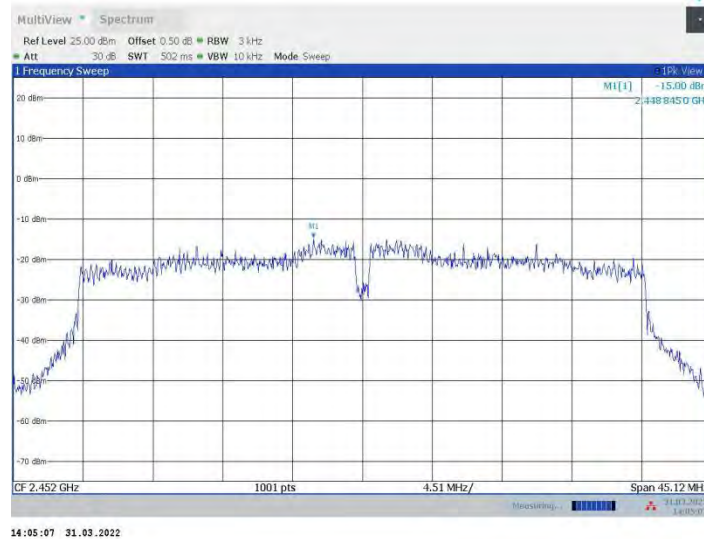
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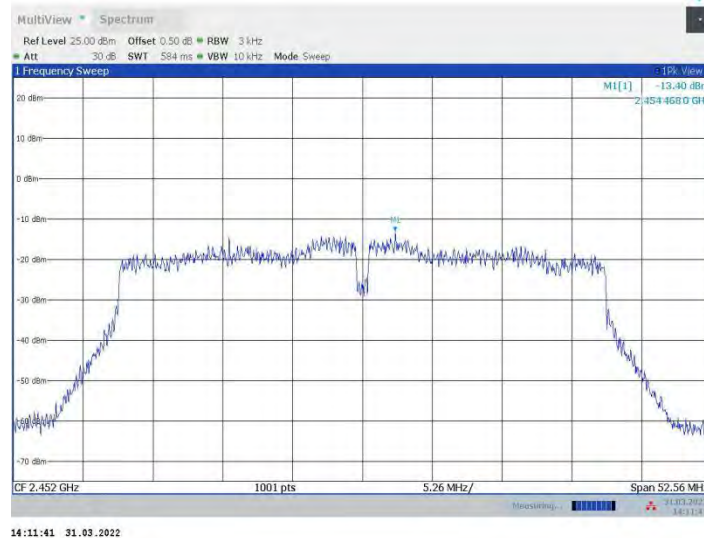
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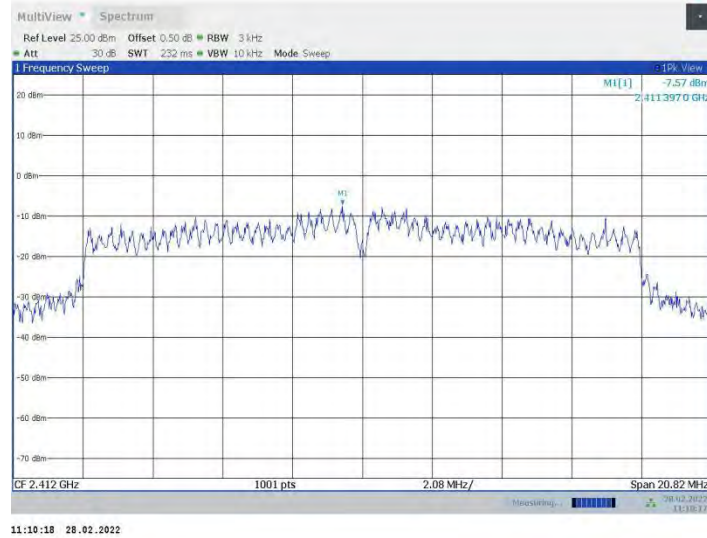
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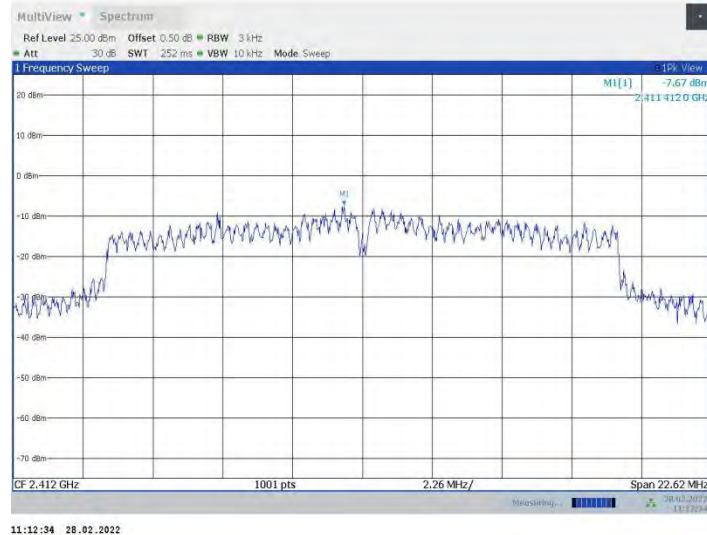
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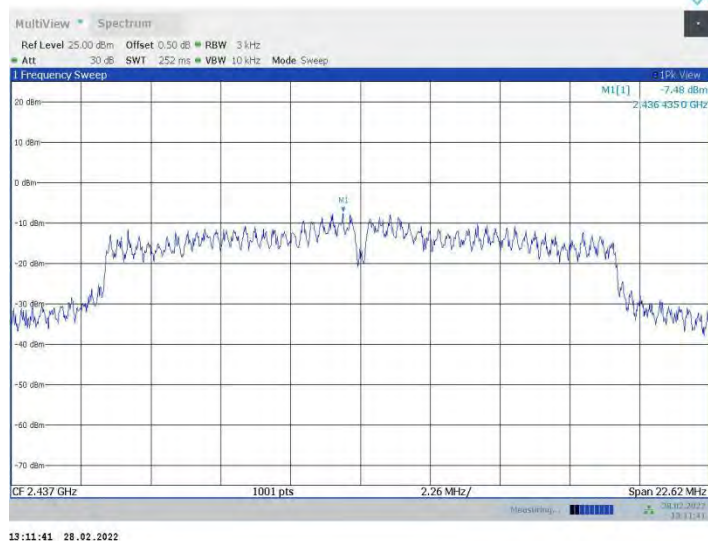
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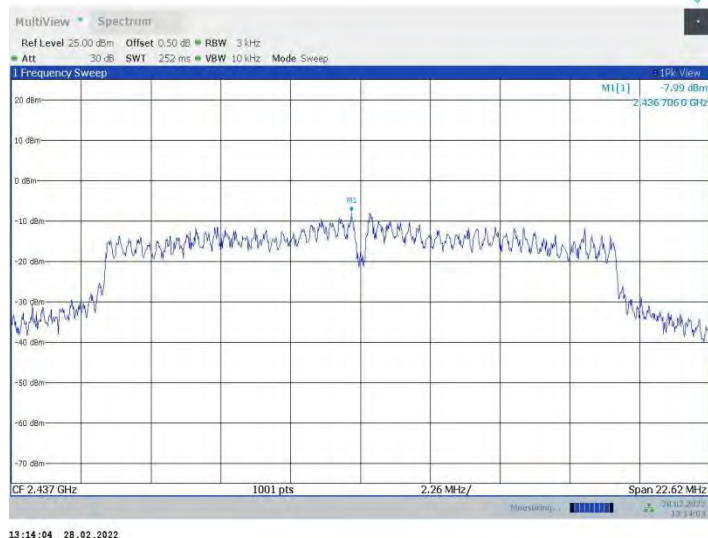
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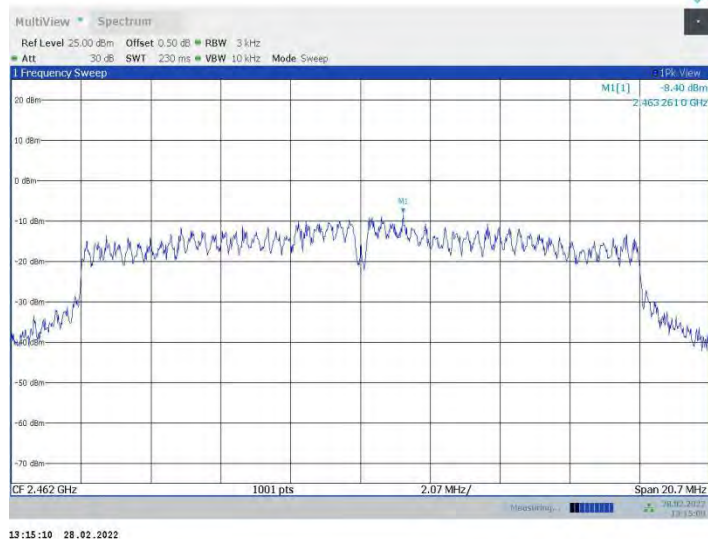
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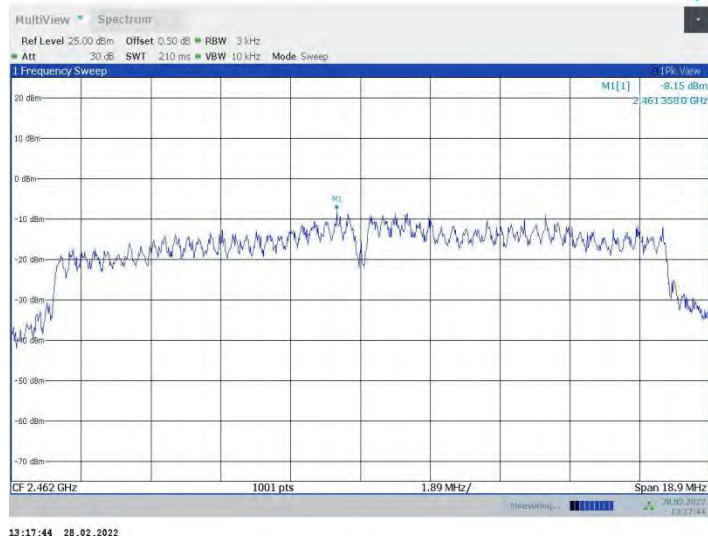
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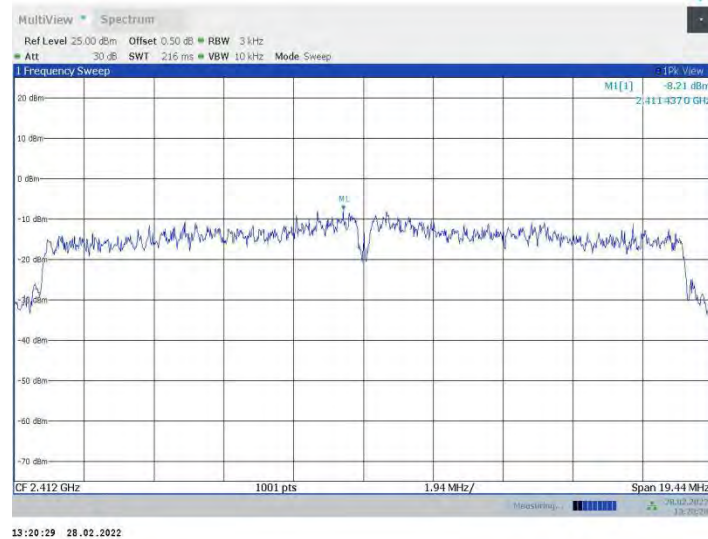
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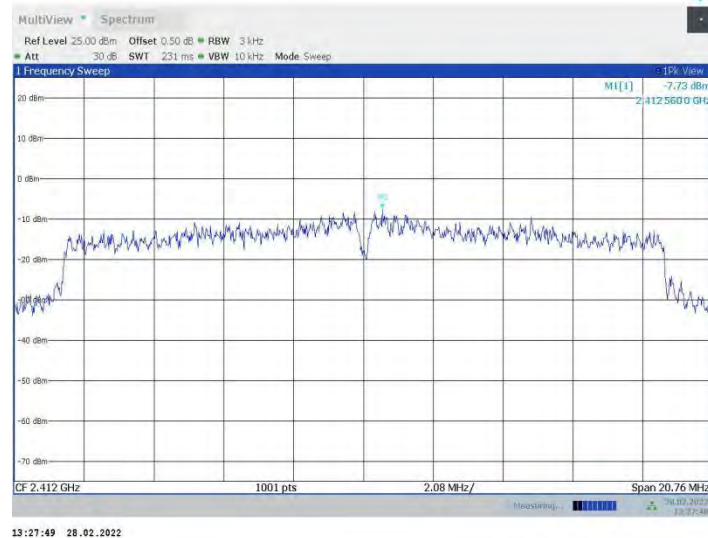
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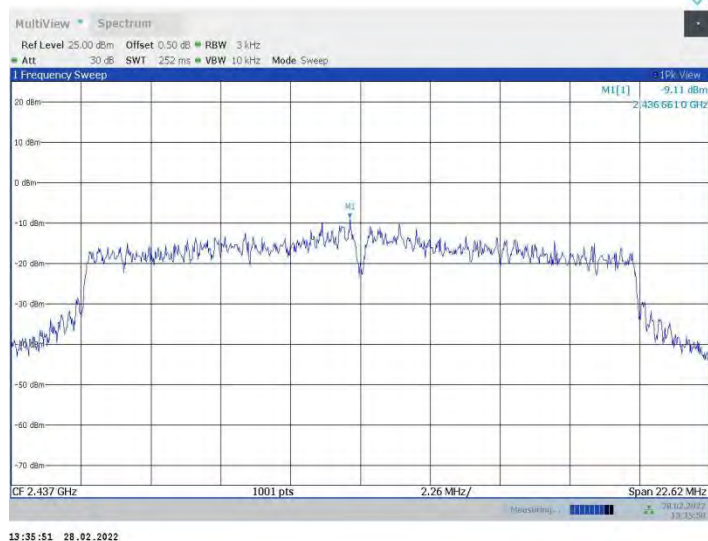
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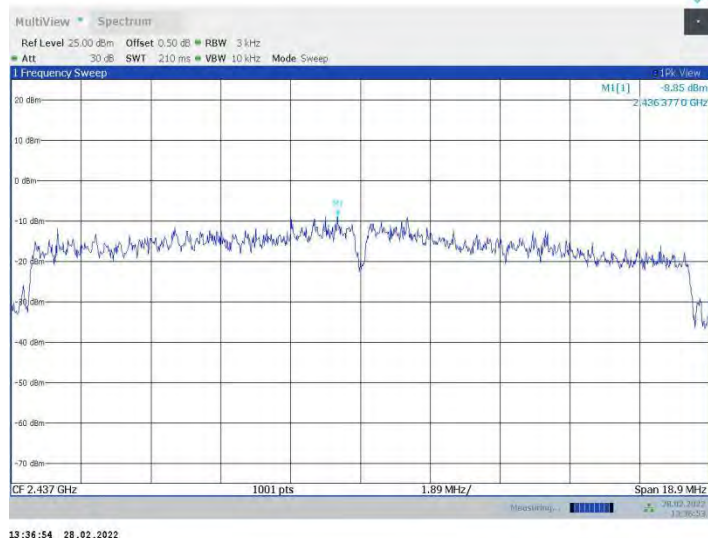
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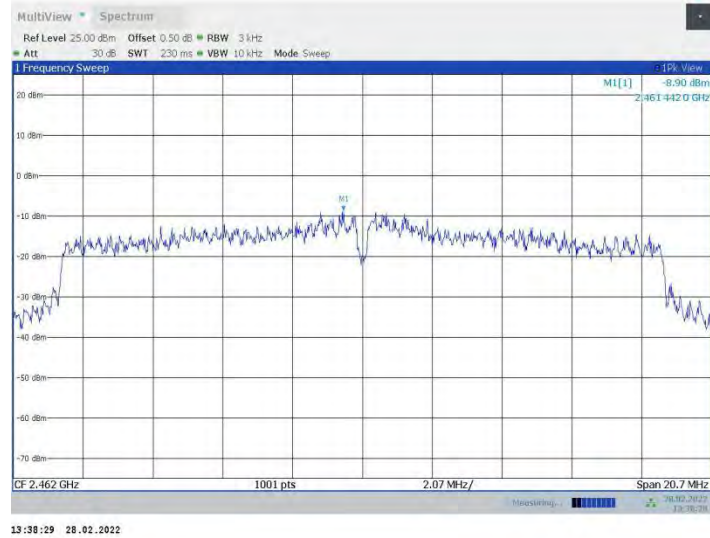
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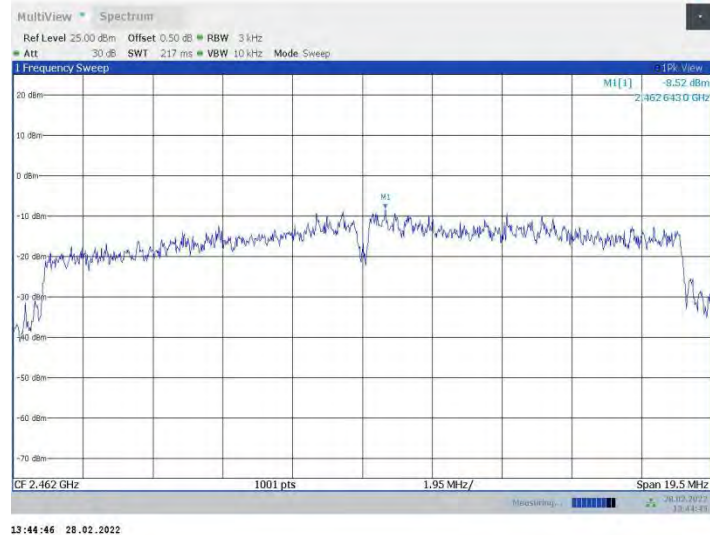
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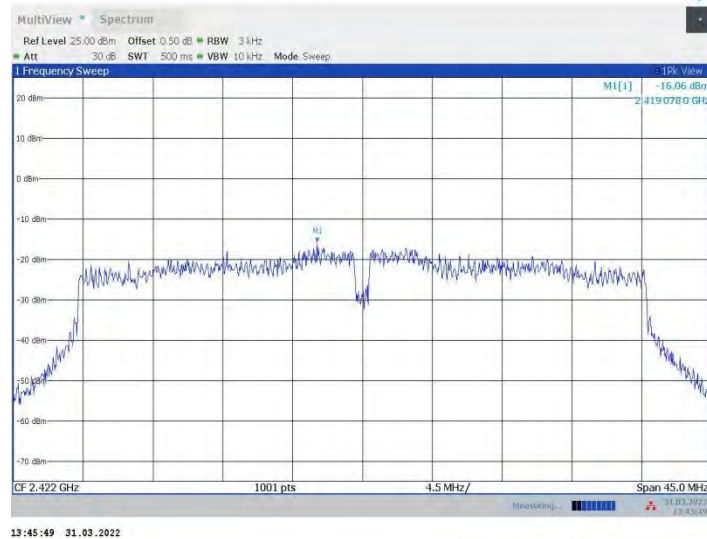
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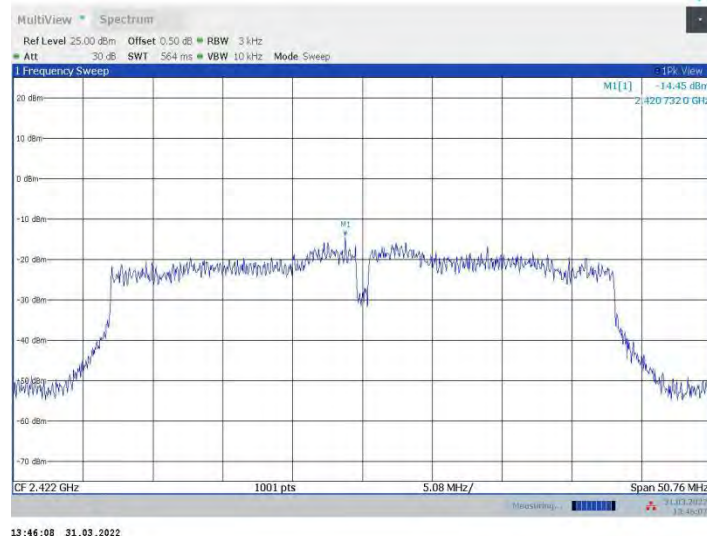
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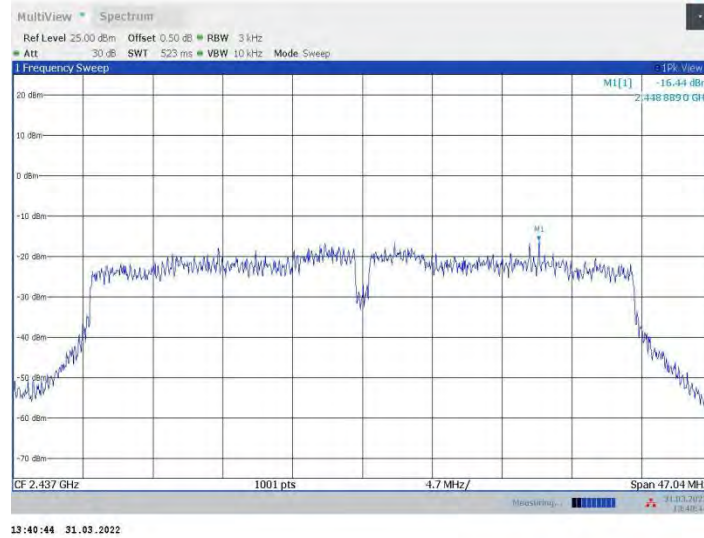


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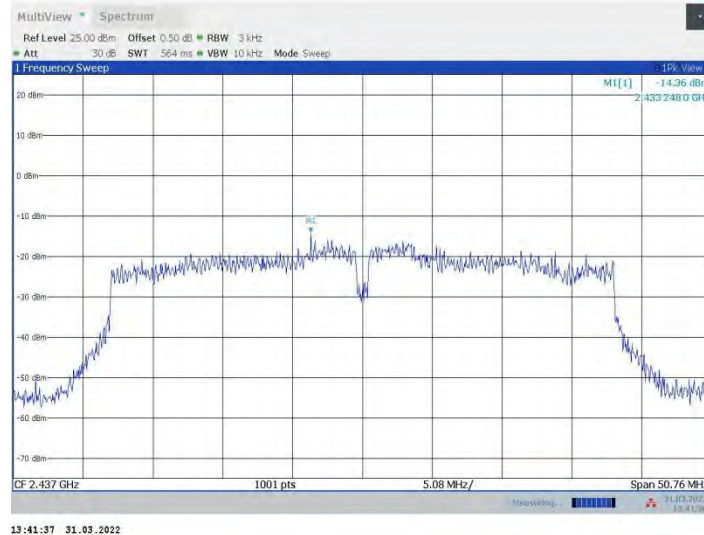
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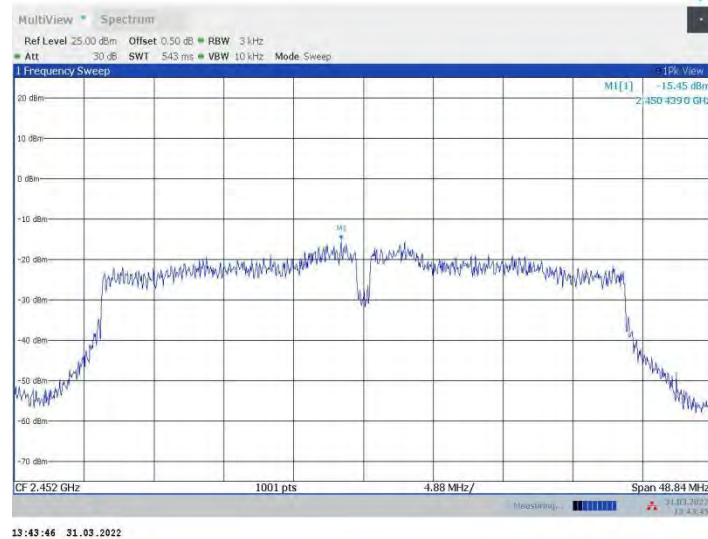
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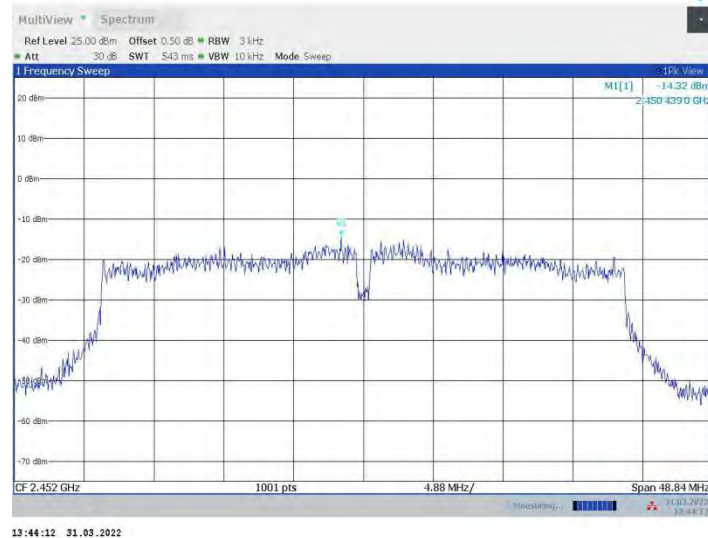
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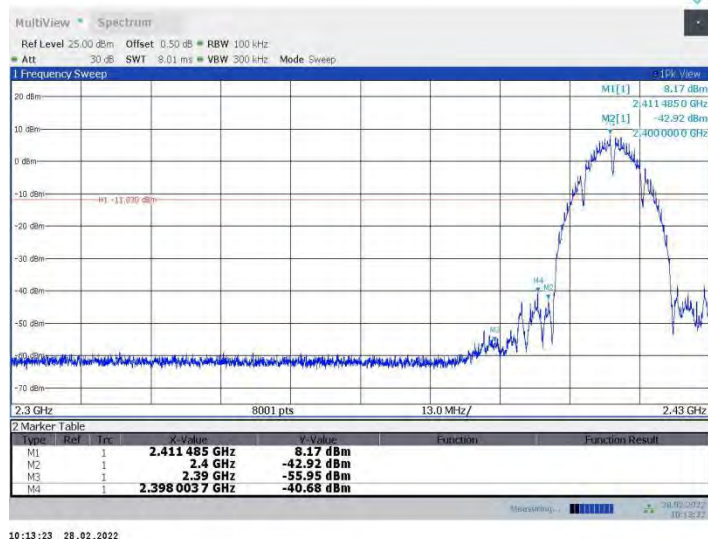
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11b_Ant1_Low_2412



11b_Ant2_Low_2412

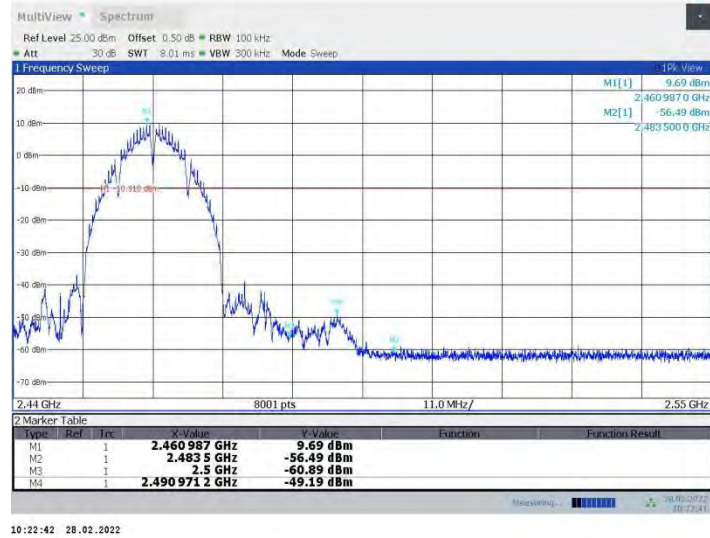


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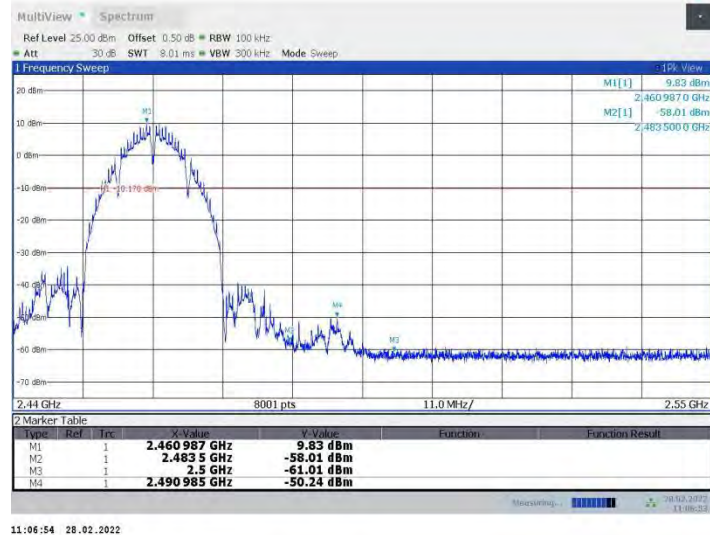
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11b_Ant1_High_2462



11b_Ant2_High_2462



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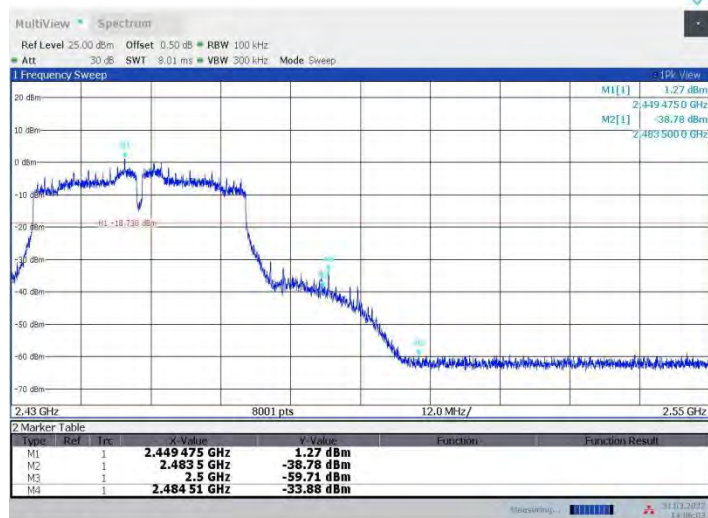
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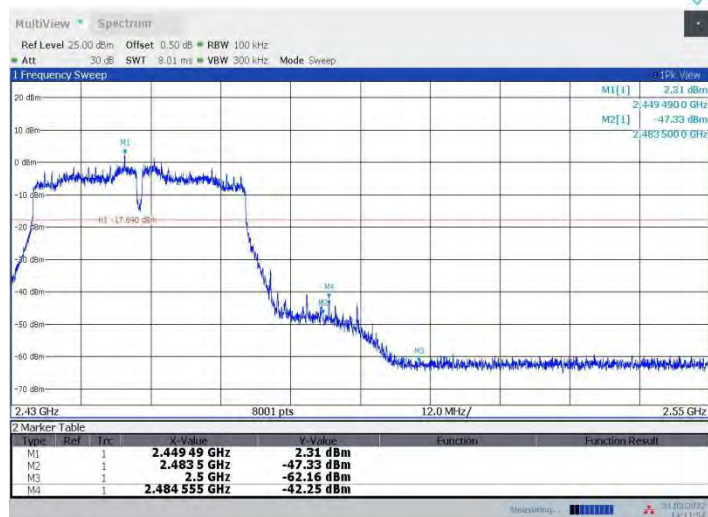
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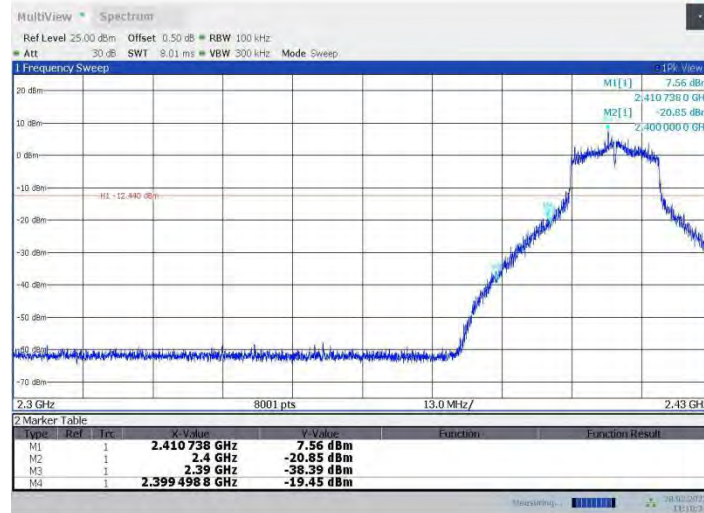


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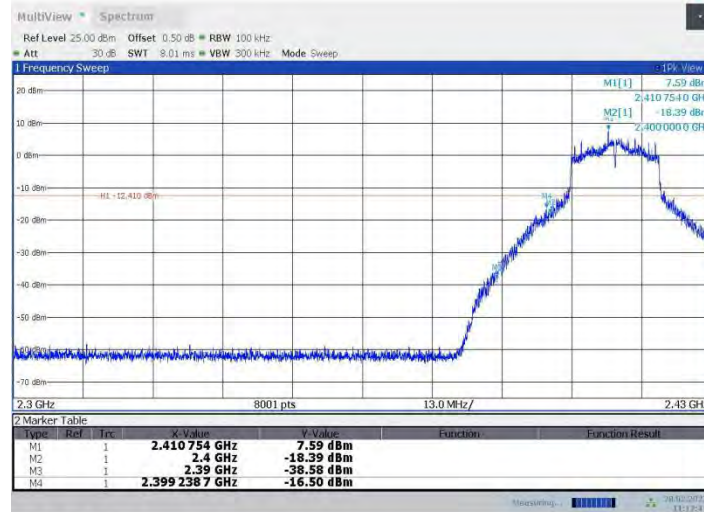
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11g-CDD_Ant2_Low_2412



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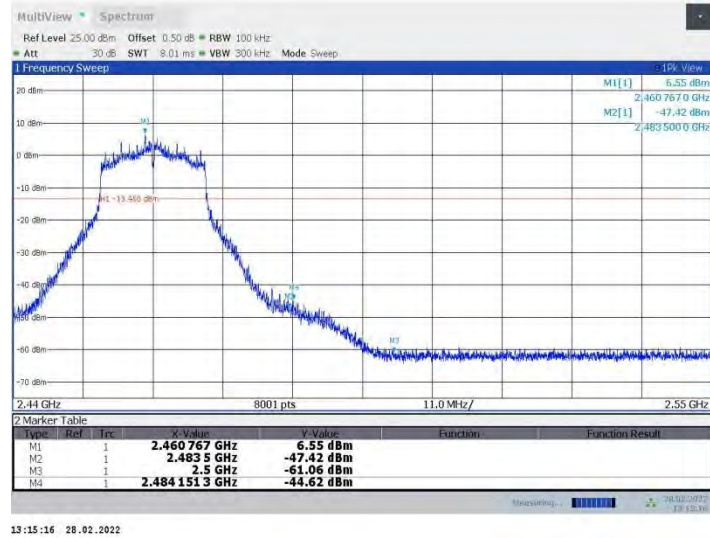
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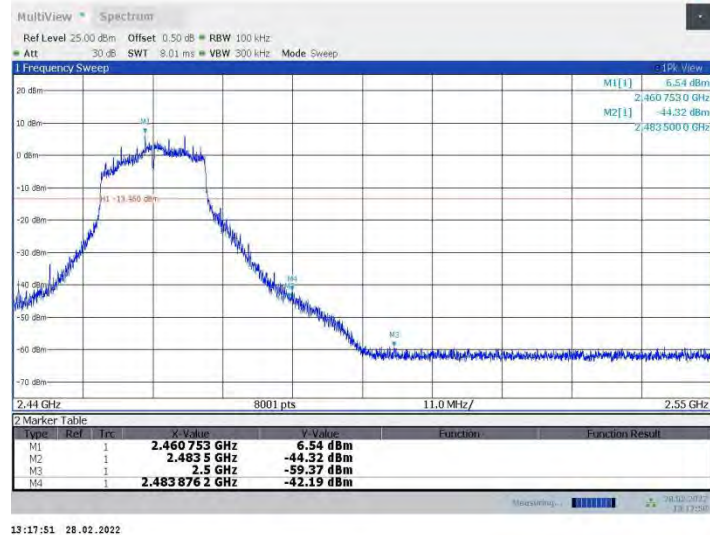
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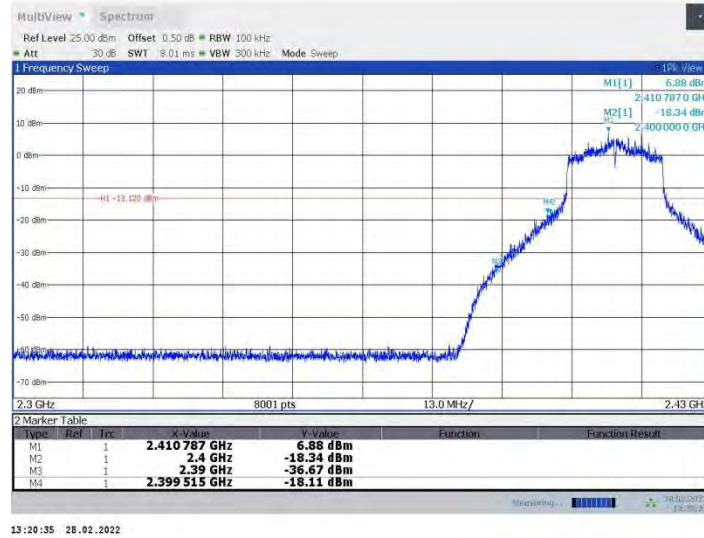
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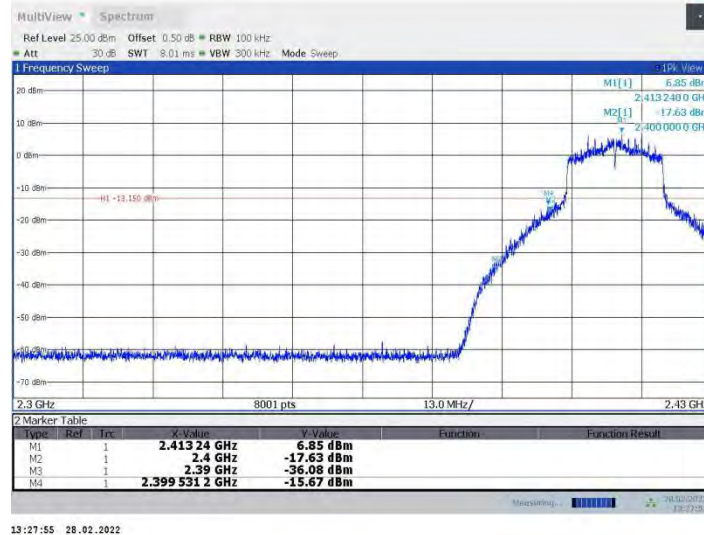
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13:20:35 28.02.2022

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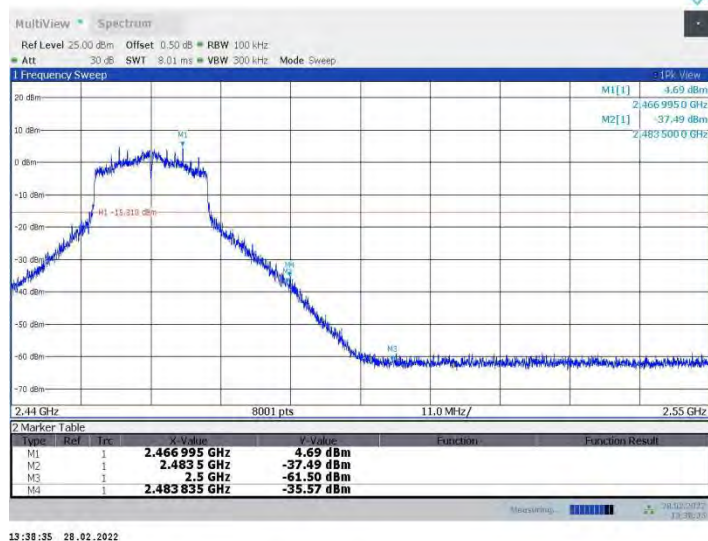
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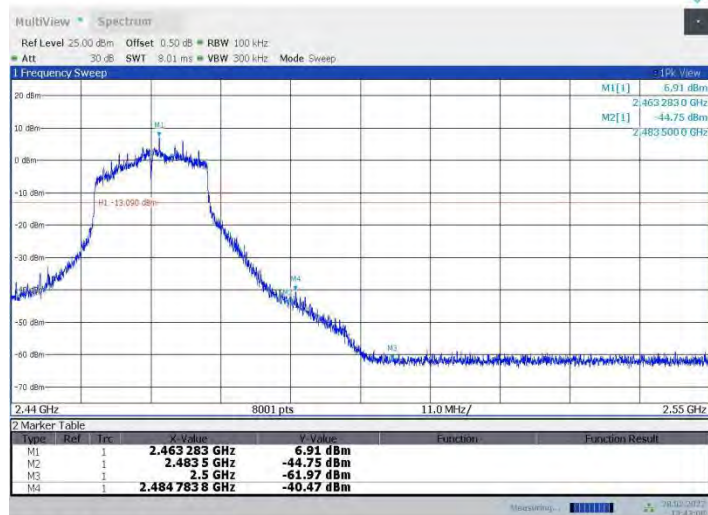
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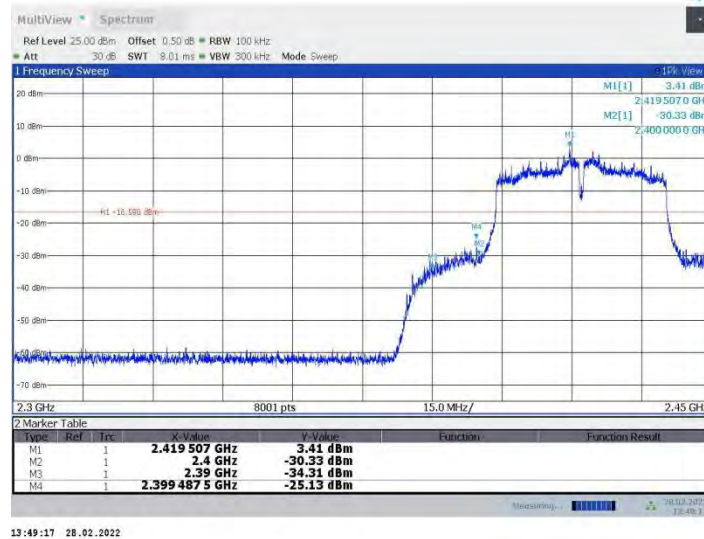


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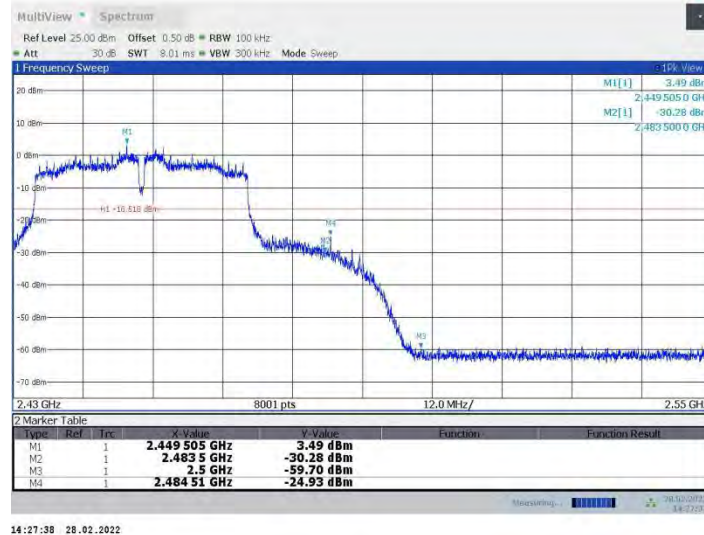
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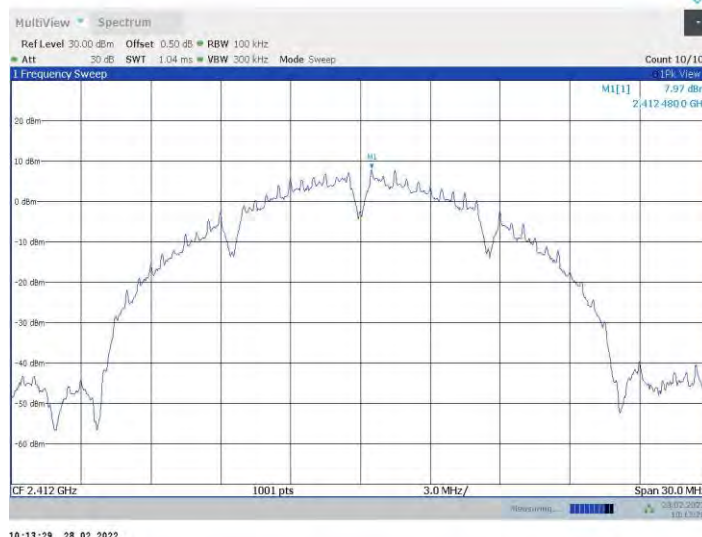
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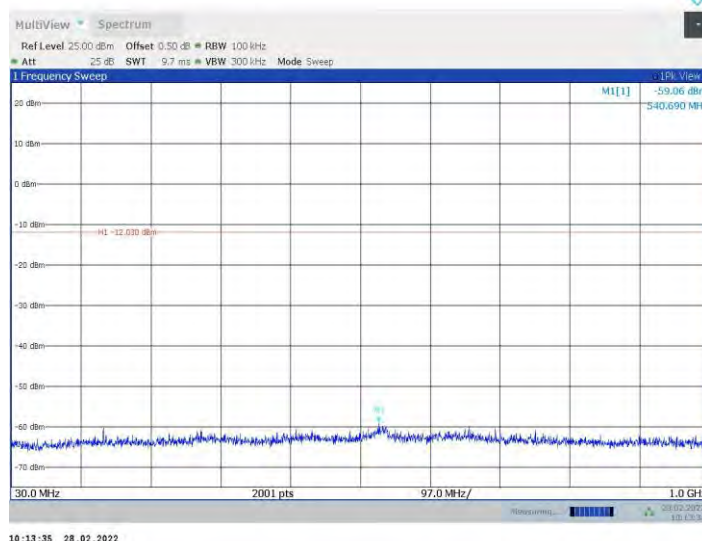
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Conducted Spurious Emission Test Graphs

11b_Ant1_2412_0~Reference



11b_Ant1_2412_30~1000



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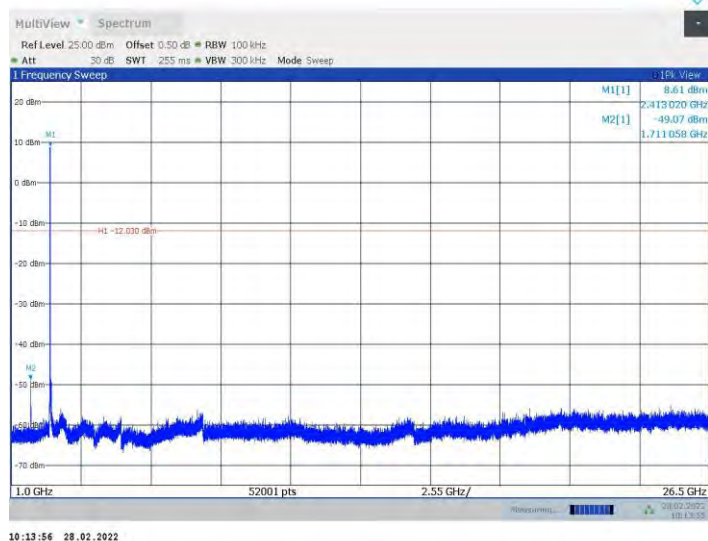
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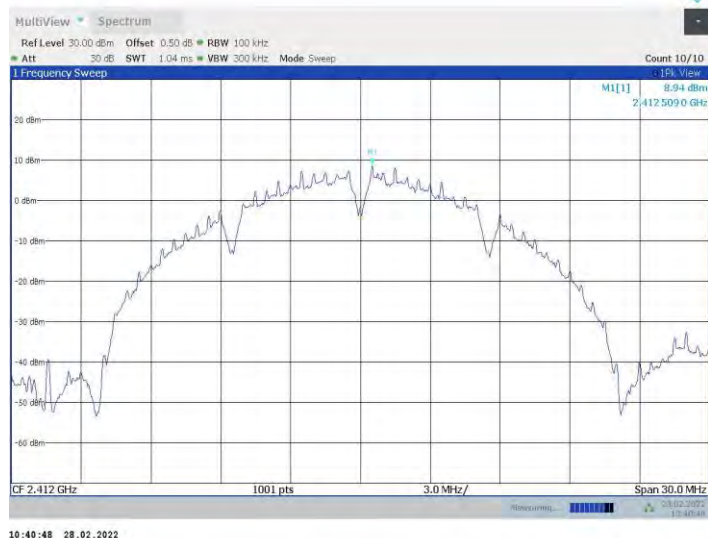
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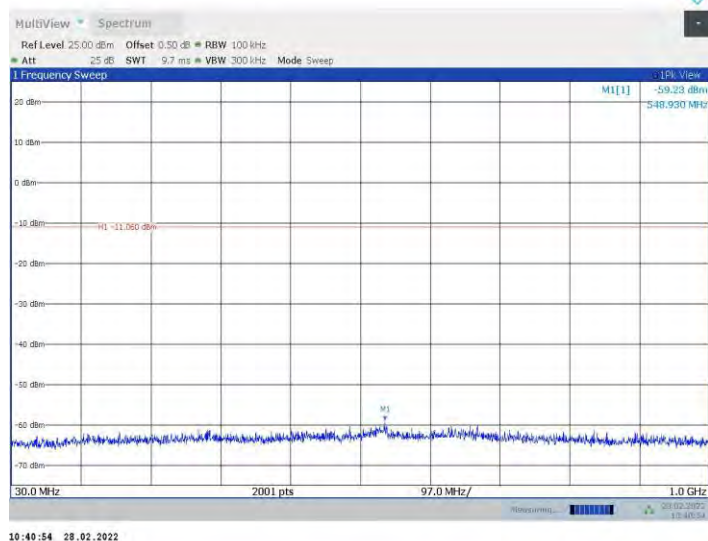
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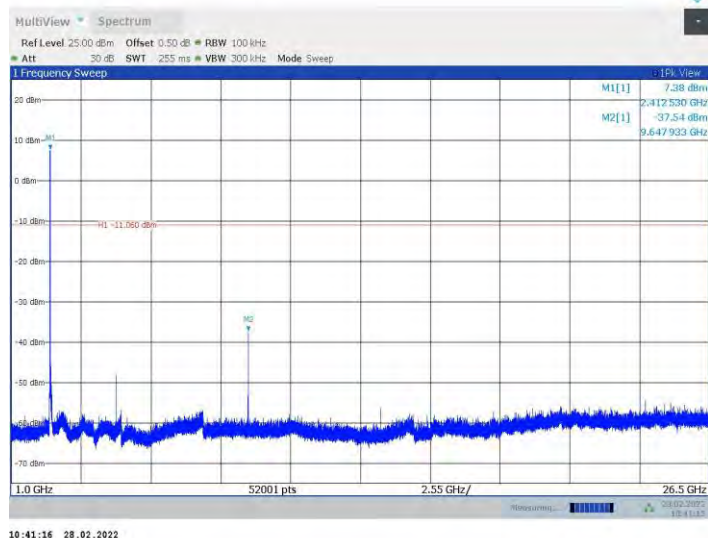
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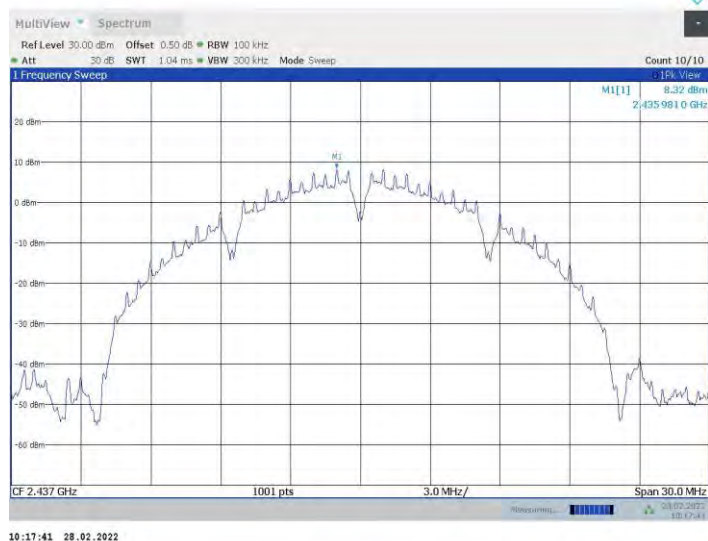
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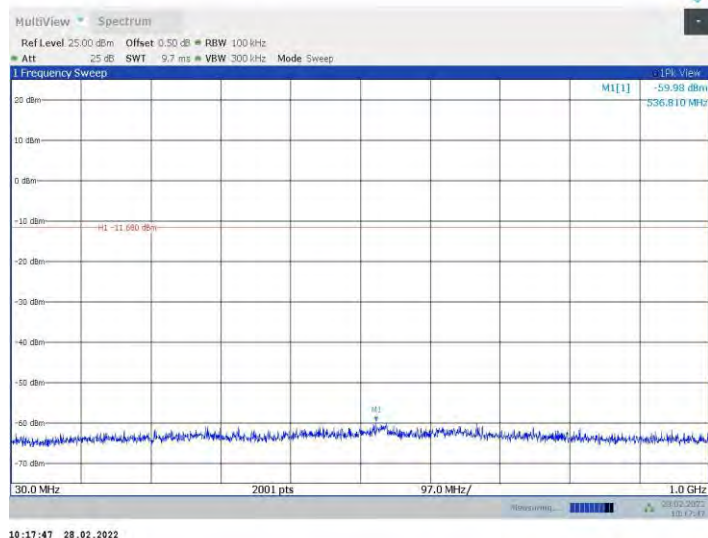
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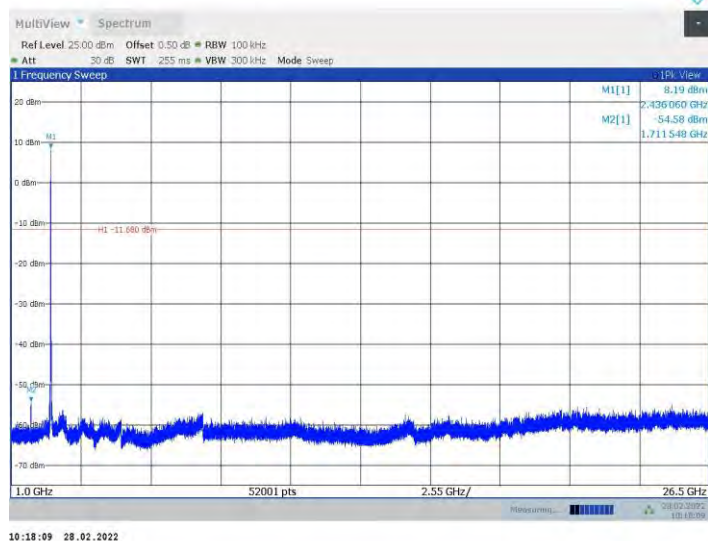
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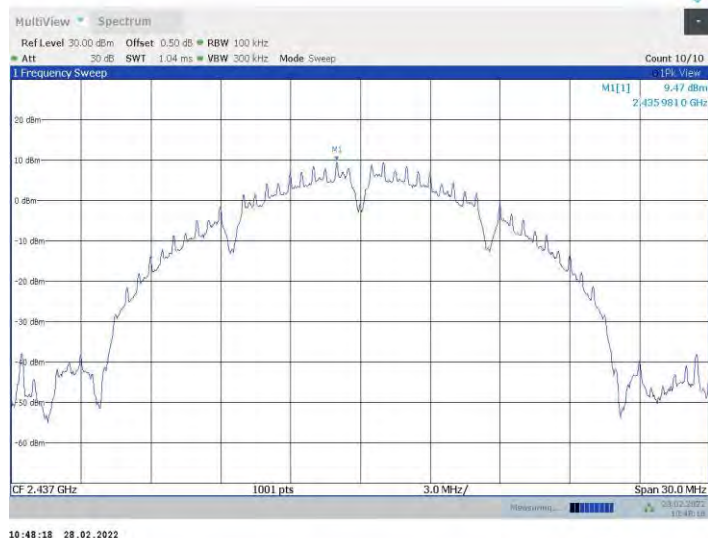
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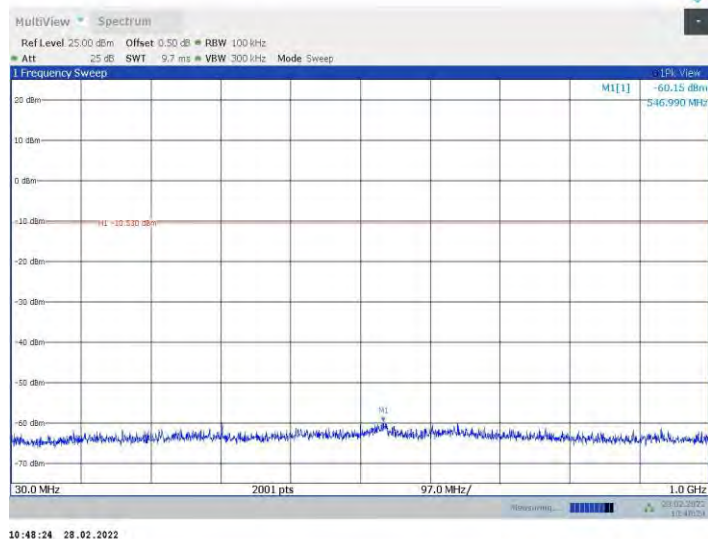
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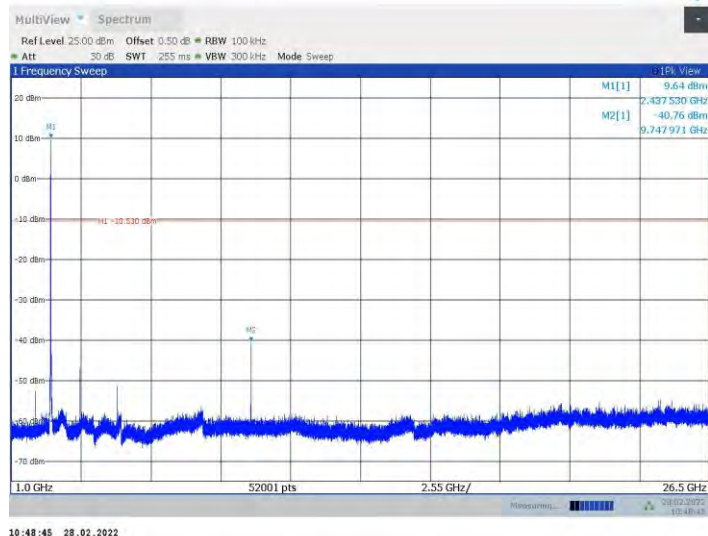
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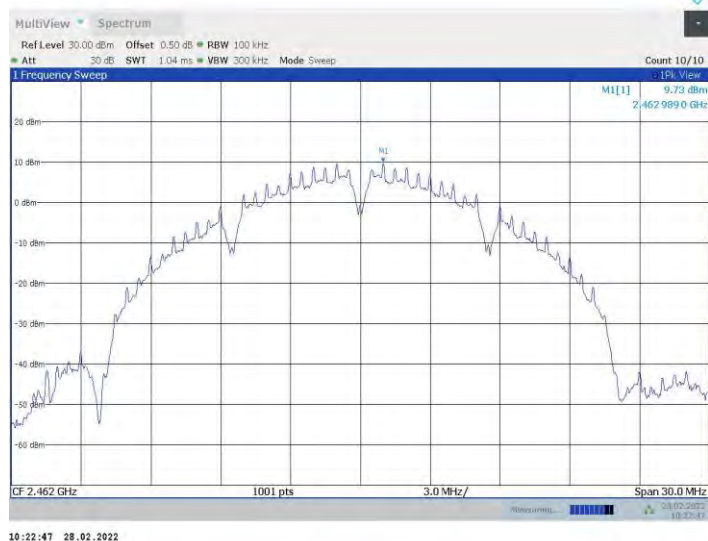
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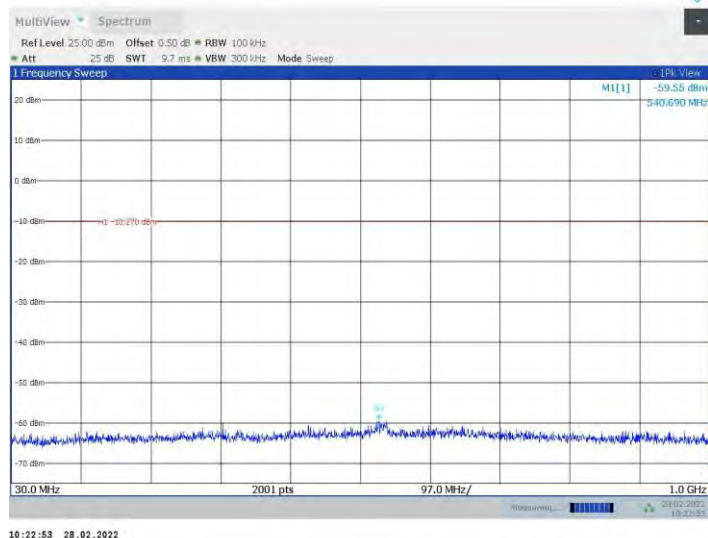
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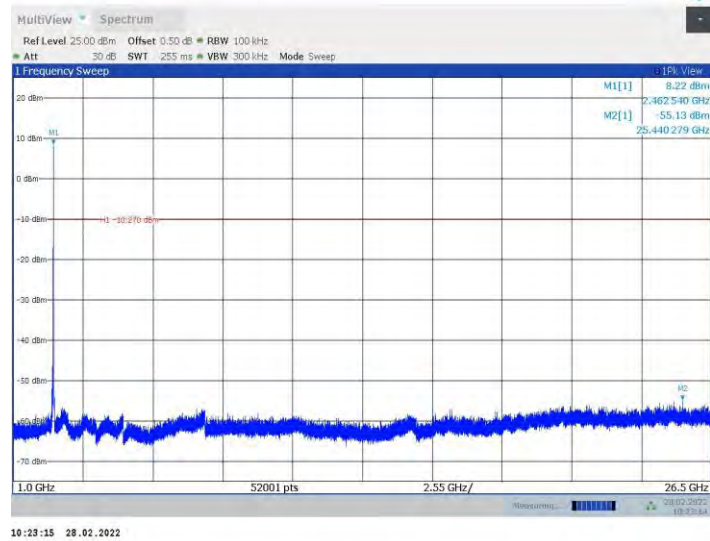
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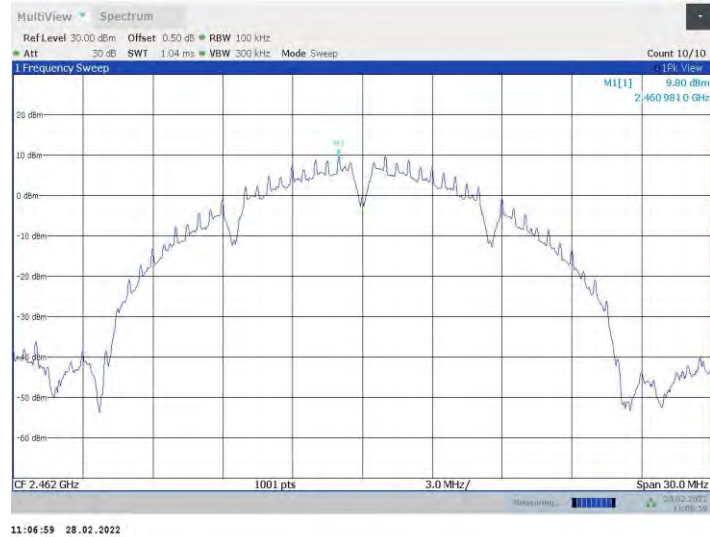
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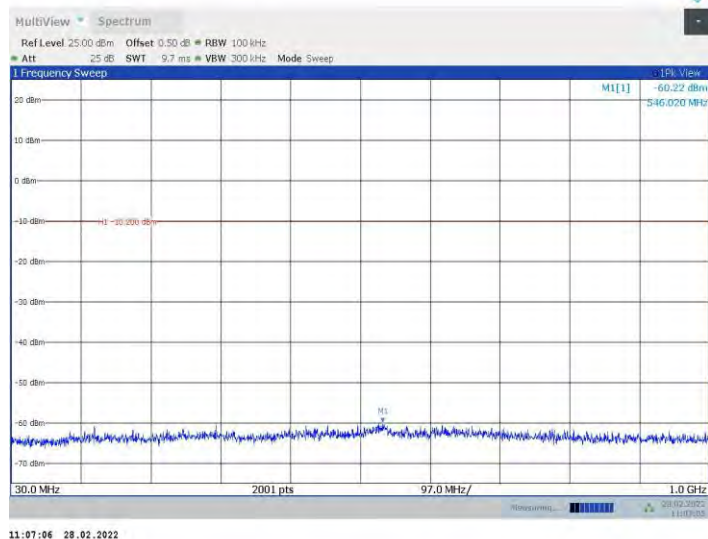
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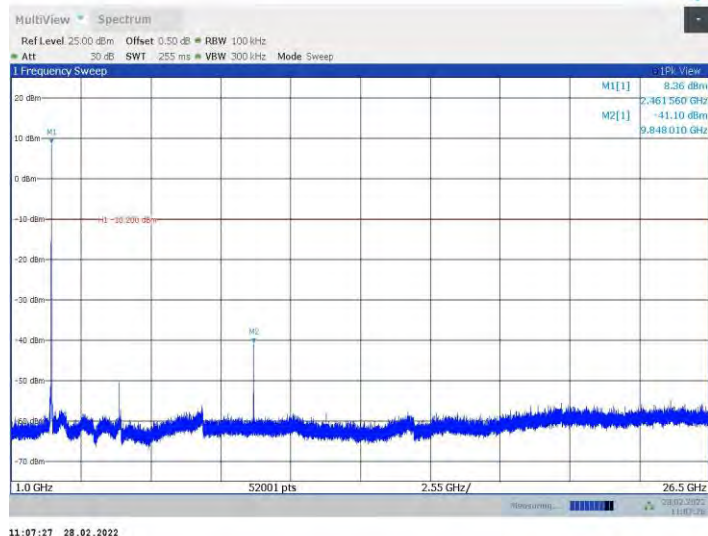
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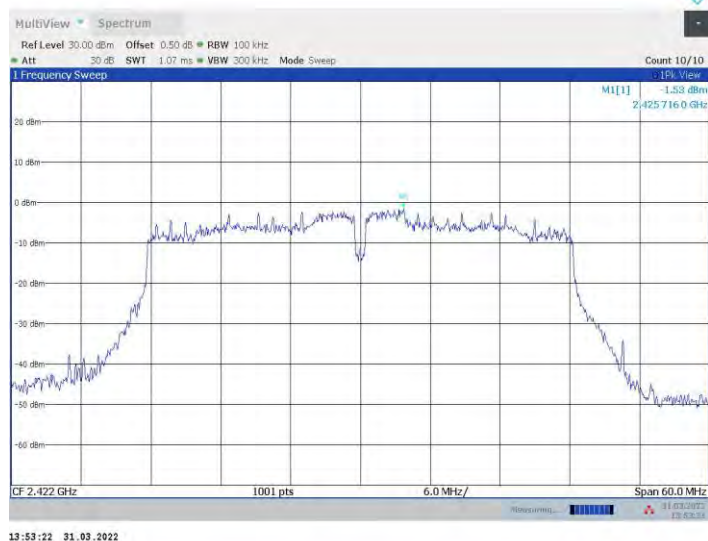
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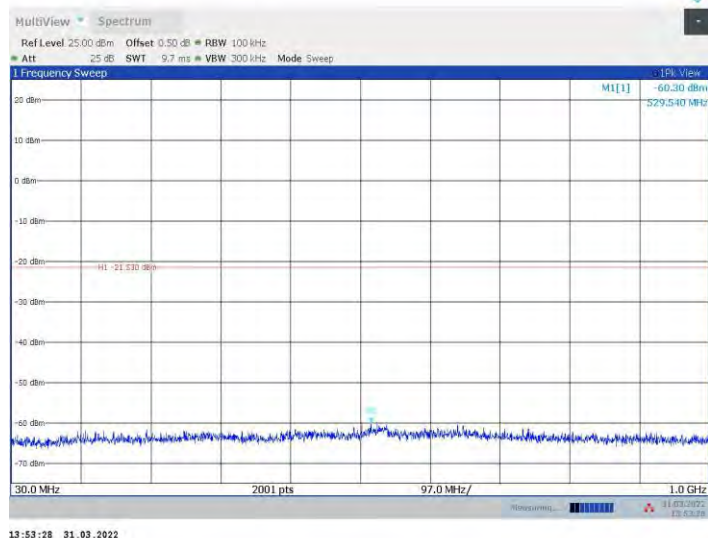
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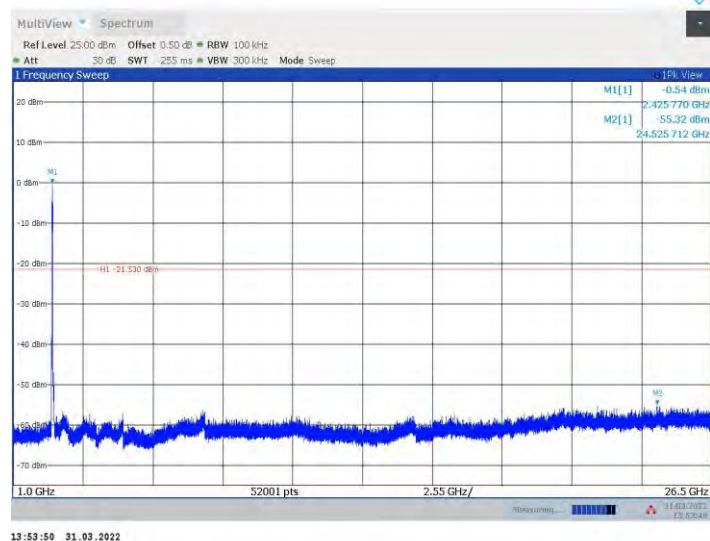
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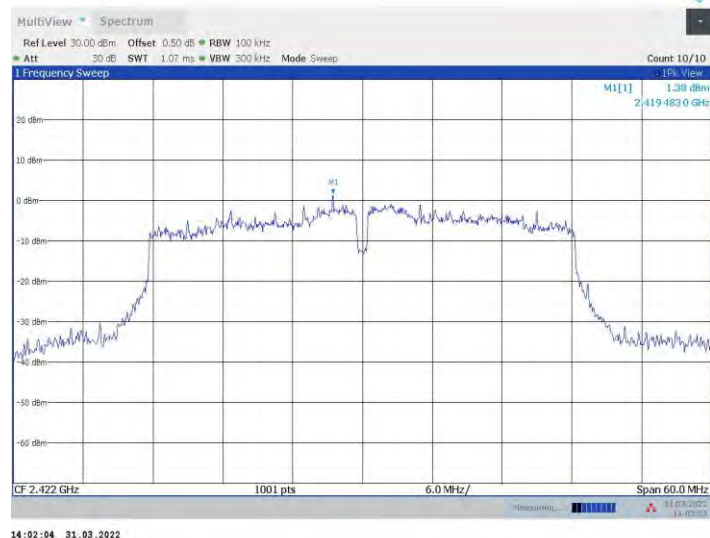
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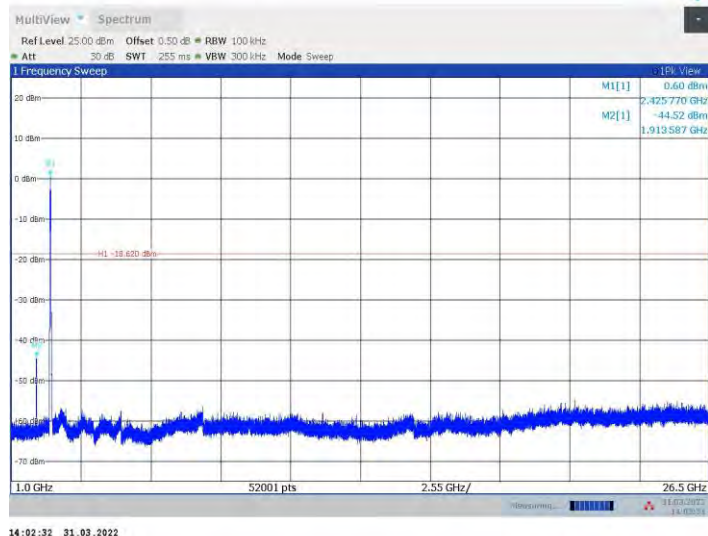
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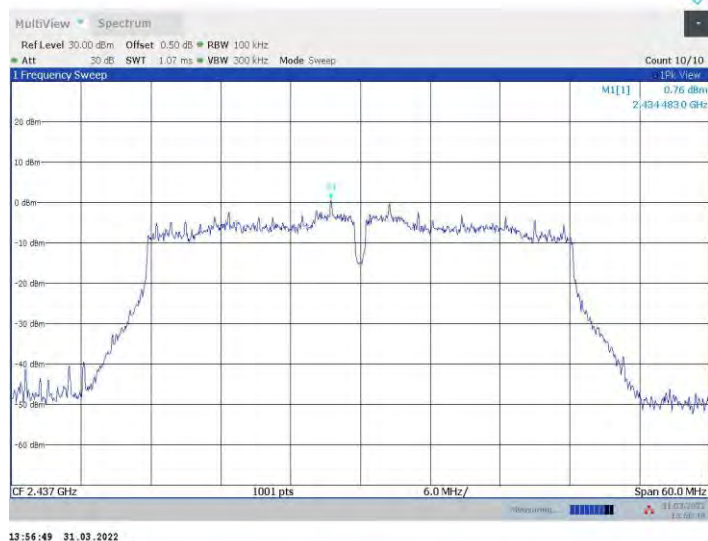
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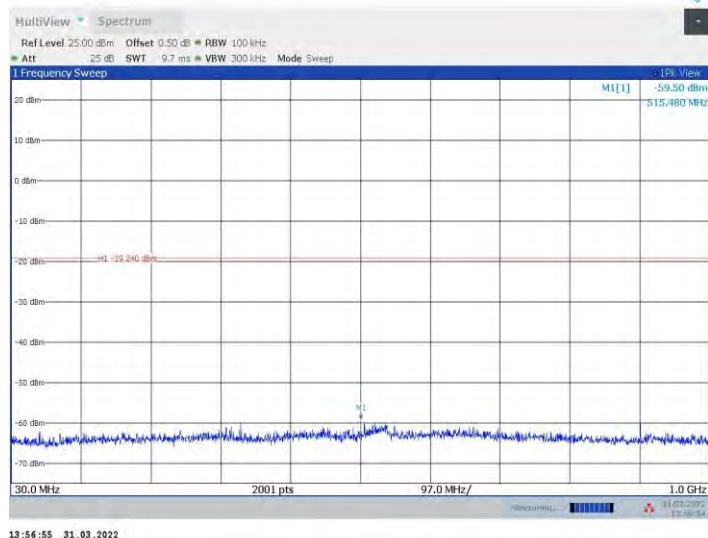
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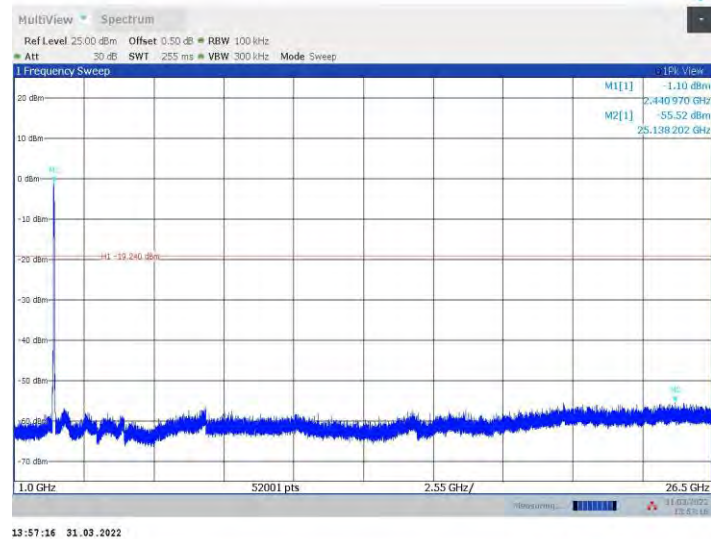
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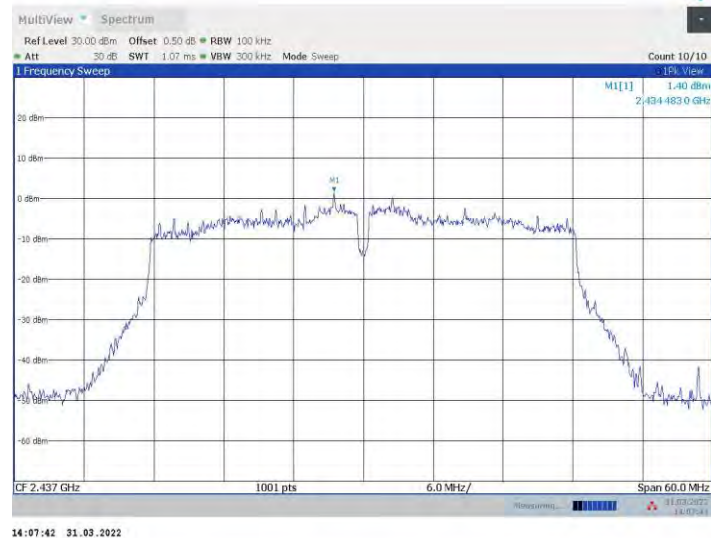
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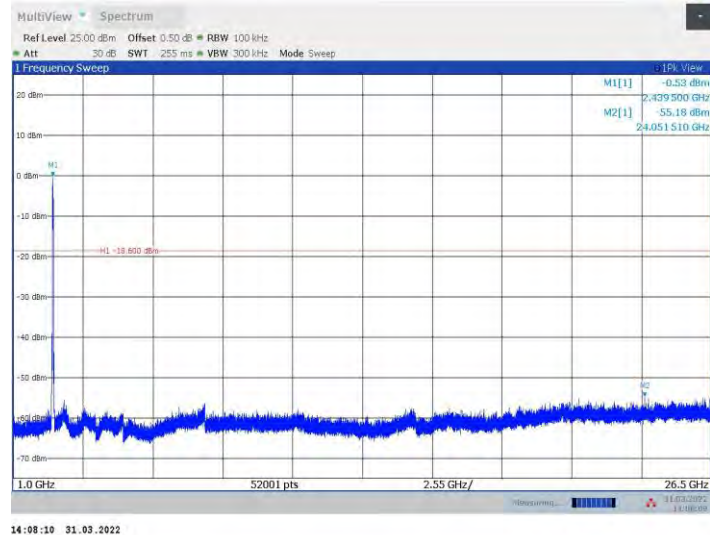
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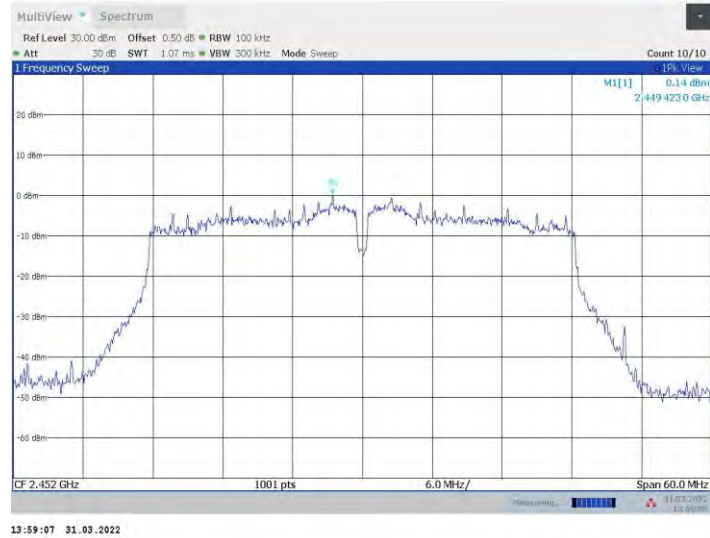
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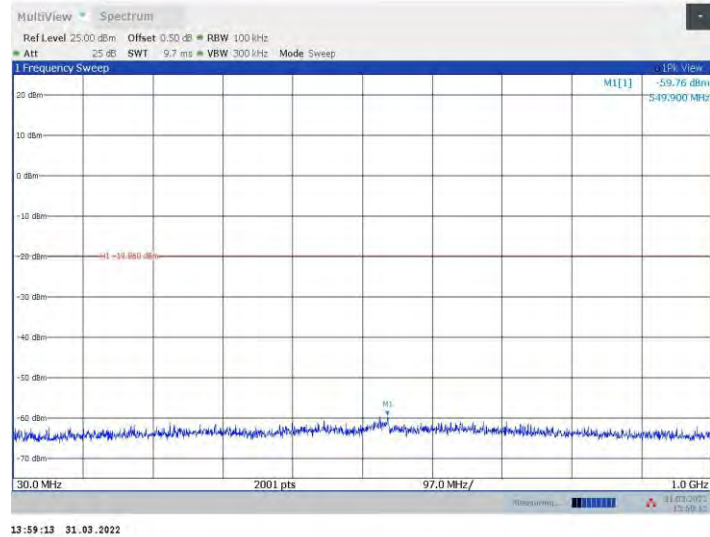
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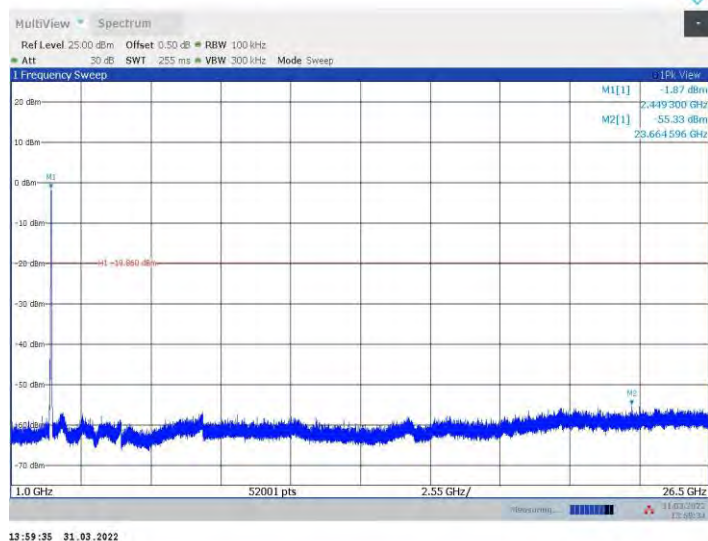
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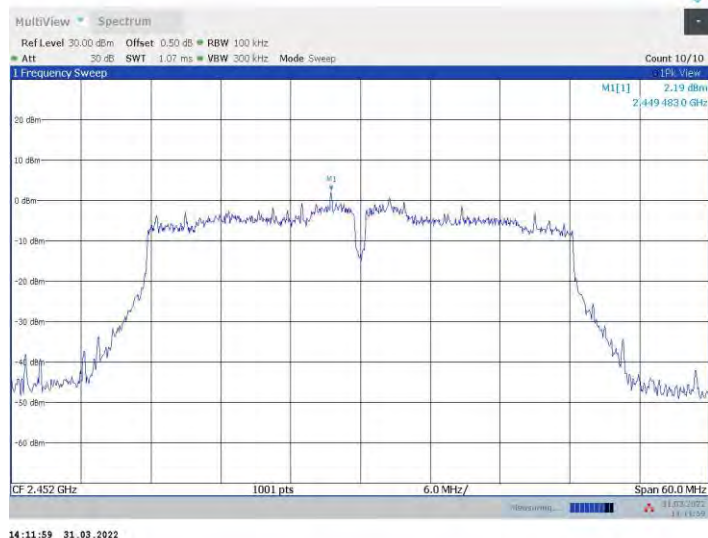
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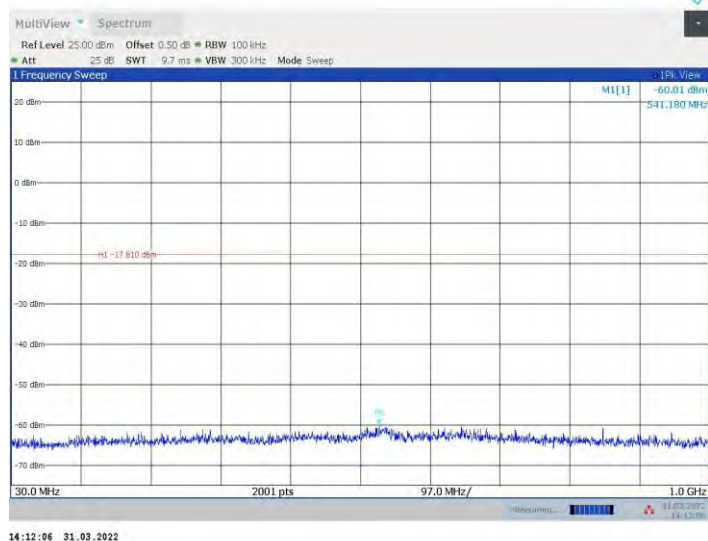
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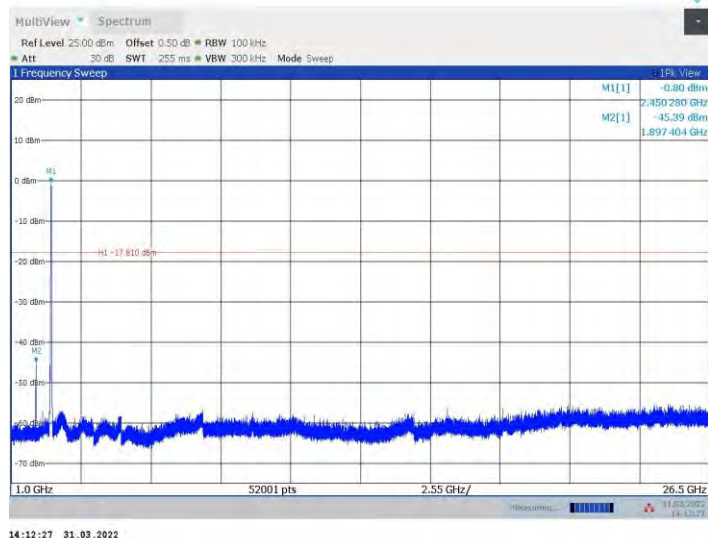
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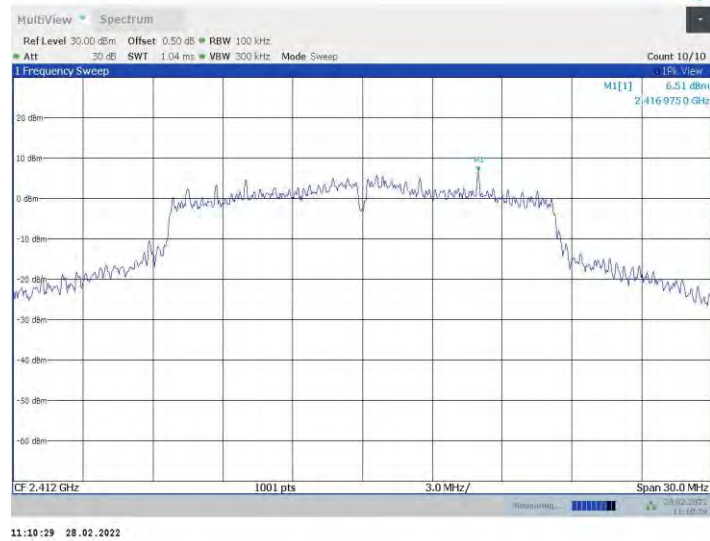
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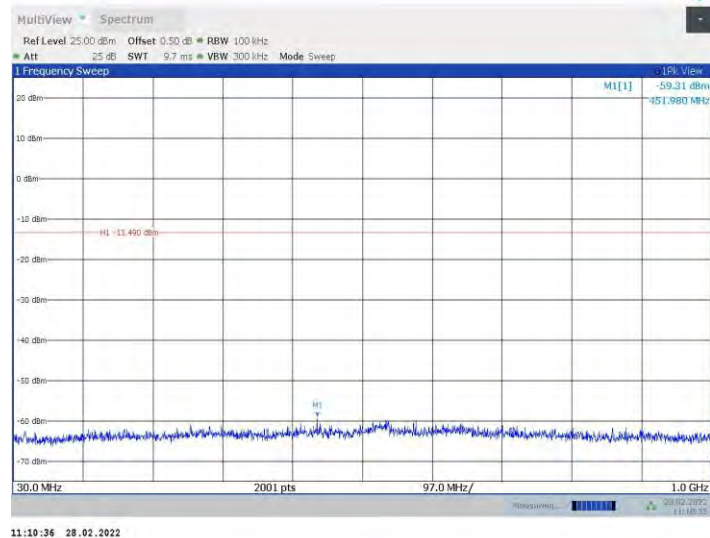
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