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Report Template Version: V05

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TEST REPORT

Report No.: CQASZ20251102679E-03
Applicant: Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Applicant: 2405-06, Baotai Building, 182 Design Park 182 Bulan Road, Lilang Community, Nanwan Street, Longgang District, Shenzhen, China
Equipment Under Test (EUT):
Product: Laptop
Model No.: U6B
Test Model No.: U6B
Brand Name: FIREBAT
FCC ID: 2BB7B-U6B
Standards: 47 CFR Part 15, Subpart C
KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020
Date of Receipt: 2025-11-24
Date of Test: 2025-11-24 to 2026-03-30
Date of Issue: 2026-03-30
Test Result : **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20251102679E-03	Rev.01	Initial report	2026-03-30

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2020	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2020	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2020	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2020	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2020	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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4 General Information

4.1 Client Information

Applicant:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Applicant:	2405-06, Baotai Building, 182 Design Park 182 Bulan Road, Lilang Community, Nanwan Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Manufacturer:	2405-06, Baotai Building, 182 Design Park 182 Bulan Road, Lilang Community, Nanwan Street, Longgang District, Shenzhen, China
Factory:	Shenzhen Qingfen Tingxiu Information Technology Co., Ltd
Address of Factory:	2405-06, Baotai Building, 182 Design Park 182 Bulan Road, Lilang Community, Nanwan Street, Longgang District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Laptop
Model No.:	U6B
Test Model No.:	U6B
Trade Mark:	FIREBAT
Software Version:	V1.0
Hardware Version:	V1.0
Power Supply:	Li-ion battery DC 11.55V 5050mAh, Charge by DC 13.2V for adapter Adapter: Model:PD200W0500G4T Input:100-240V 50/60Hz 2.5A Output:5.0V=3.0A 15.0W or 9.0V=3.0A 27.0W or 12.0V=3.0A 36.0W or 15.0V=3.0A 45.0W or 20.0V=5.0A 100.0W(MAX)
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20)/ax(HE20): 2412MHz~2462MHz; 802.11n(HT40)/ax(HE40): 2422MHz~2452MHz
Simultaneous Transmission	☒ Simultaneous TX is supported and evaluated in this report. ☐ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20)/ax(HE20): 2412MHz to 2462MHz IEEE 802.11n(HT40)/ax(HE40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20/ax HE20: 11 Channels IEEE 802.11n HT40/ax HE40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11ax(HE20 and HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b:

	1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps IEEE for 802.11ax(HE20): 8.6Mbps/17.2Mbps/25.8Mbps/34.4Mbps/51.6Mbps/68.8Mbps/77.4Mbps /86.7Mbps/103.3Mbps/114.7Mbps/129.0Mbps/143.4Mbps IEEE for 802.11ax(HE40): 17.2Mbps/34.4Mbps/51.6Mbps/68.8Mbps/103.2Mbps/137.6Mbps/154.9Mbps /173.3Mbps/206.5Mbps/229.4Mbps/258.1Mbps/286.8Mbps
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RTLBTAPP
Antenna Type:	FPC antenna
Antenna Gain:	ANT1:2.86dBi ANT2:2.19dBi

Operation Frequency each of 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 each of 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				

Note:

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:

For 802.11b/g/n (HT20)/ax(HE20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40)/ax(HE40):

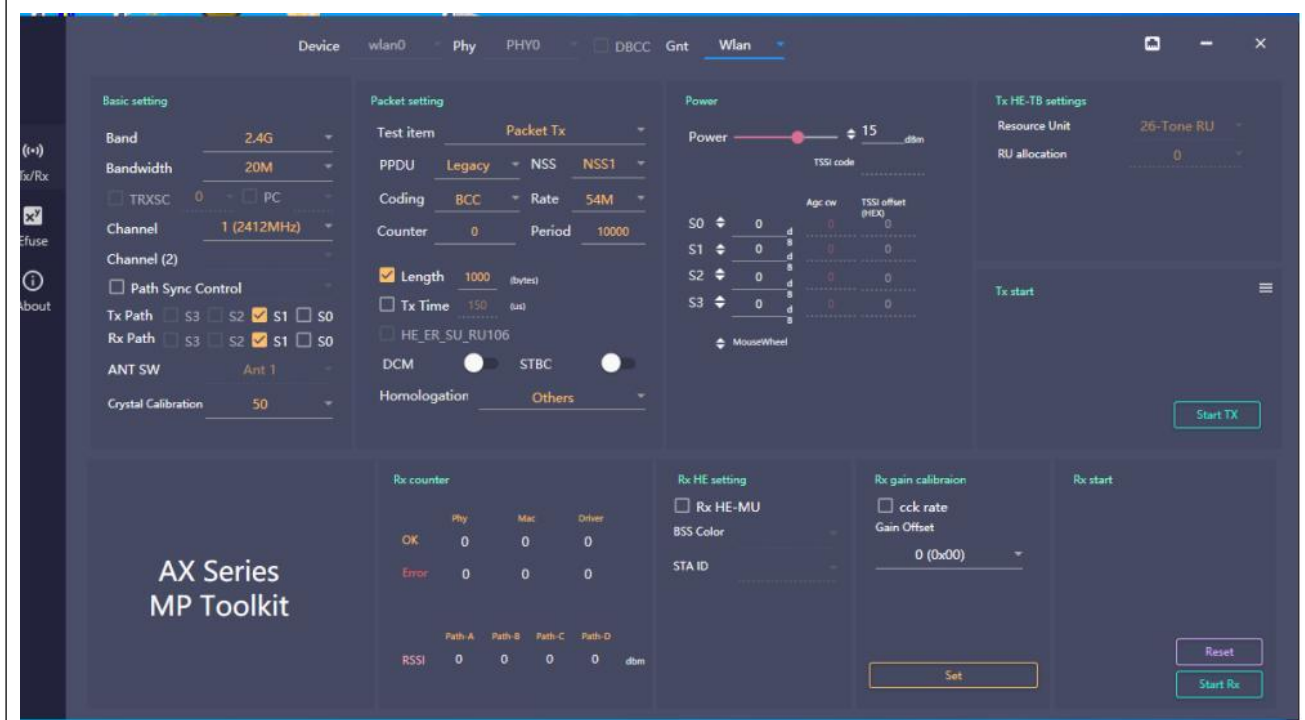
Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class15
Run Software:	



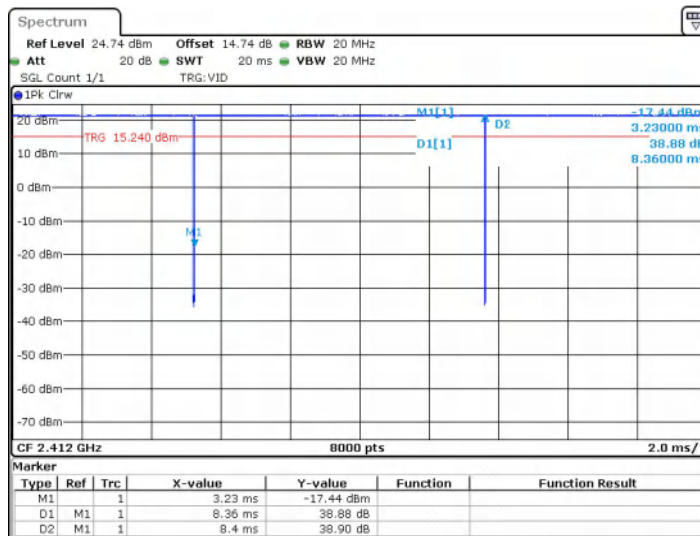
Ant1:

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	8.36	8.40	99.52	0.02
IEEE802.11g	1.38	1.42	97.18	0.12
IEEE802.11n (HT20)	1.31	1.35	97.04	0.13
IEEE802.11n (HT40)	0.65	0.70	92.86	0.32
IEEE802.11ax (HE20)	1.32	1.36	97.06	0.13
IEEE802.11ax (HE40)	0.66	0.70	94.29	0.26

Remark:

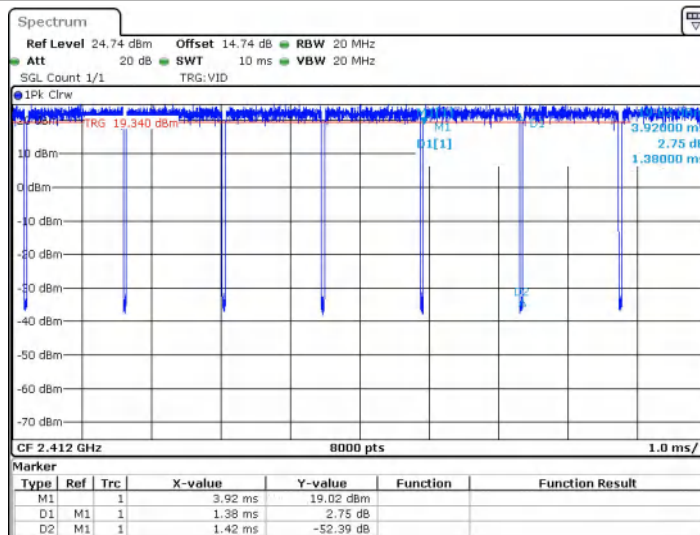
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



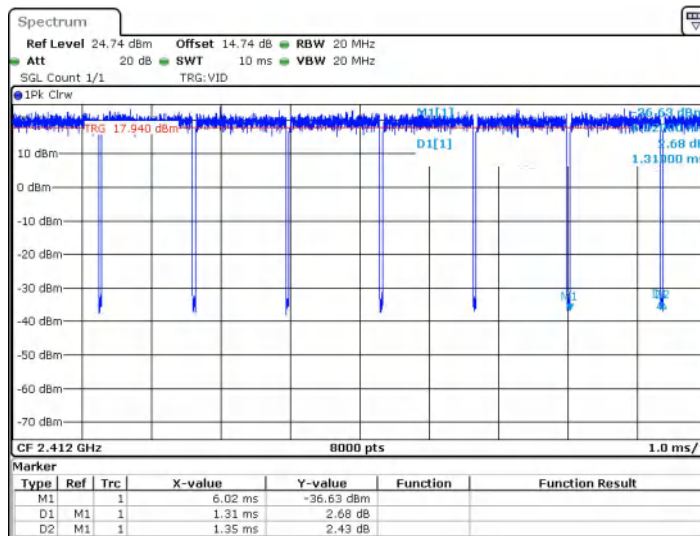
Date: 5 DEC.2025 11:16:14

Test Graph_IEEE802.11g Duty Cycle:



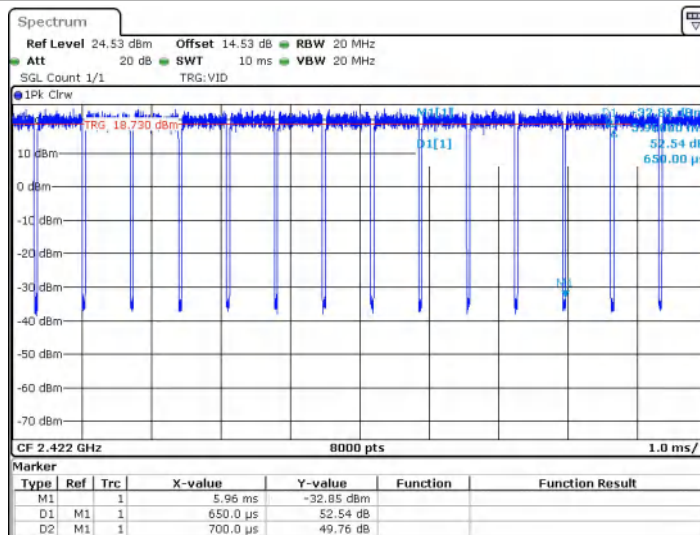
Date: 5 DEC.2025 11:20:49

Test Graph_IEEE802.11 n (HT20) Duty Cycle:



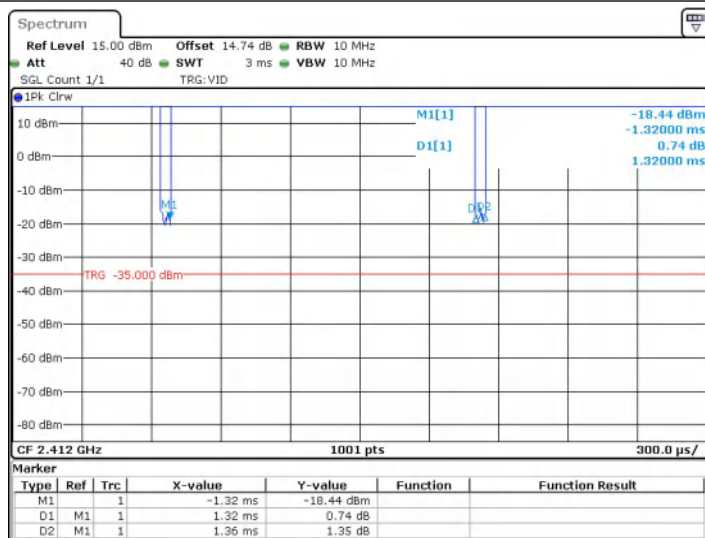
Date: 5 DEC.2025 14:15:09

Test Graph_IEEE802.11 n (HT40) Duty Cycle:



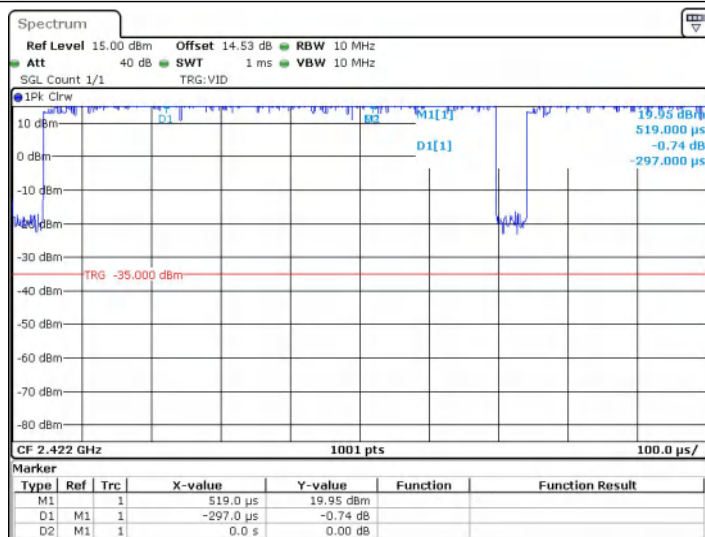
Date: 5 DEC.2025 14:37:45

Test Graph_IEEE802.11 ax (HE20) Duty Cycle:



Date: 5 DEC.2025 14:49:09

Test Graph_IEEE802.11 ax (HE40) Duty Cycle:



Date: 5 DEC.2025 14:57:06

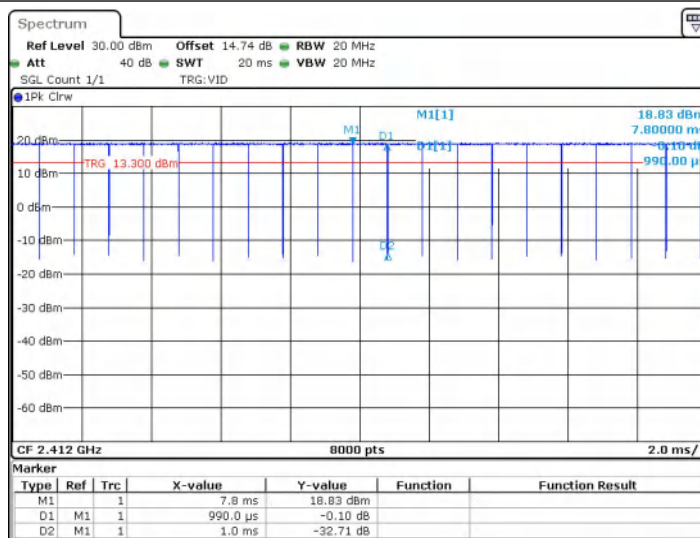
Ant2:

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
IEEE802.11b	0.99	1.00	99.00	0.04
IEEE802.11g	0.68	0.69	98.55	0.06
IEEE802.11n (HT20)	0.65	0.66	98.48	0.07
IEEE802.11n (HT40)	0.33	0.34	97.06	0.13
IEEE802.11ax (HE20)	0.66	0.67	98.51	0.07
IEEE802.11ax (HE40)	0.33	0.34	97.06	0.13

Remark:

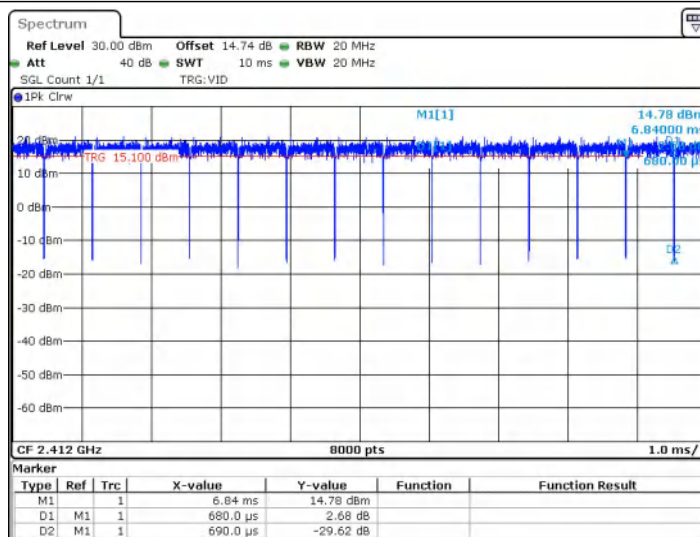
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Test Graph_IEEE802.11b Duty Cycle:



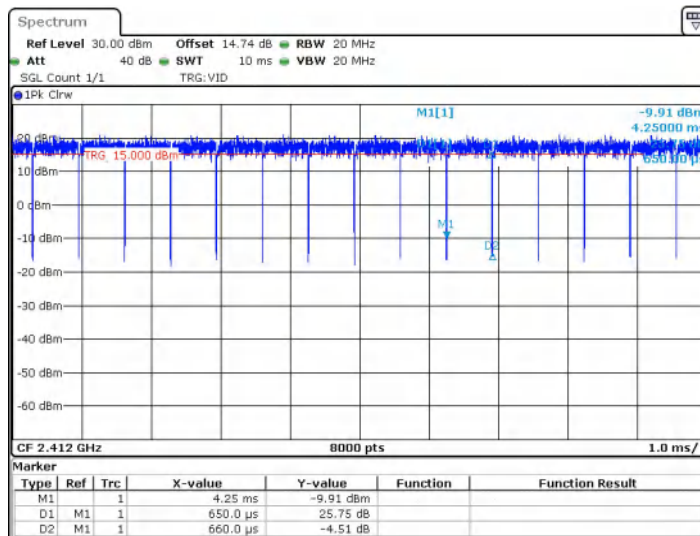
Date: 11 DEC 2025 11:28:23

Test Graph_IEEE802.11g Duty Cycle:

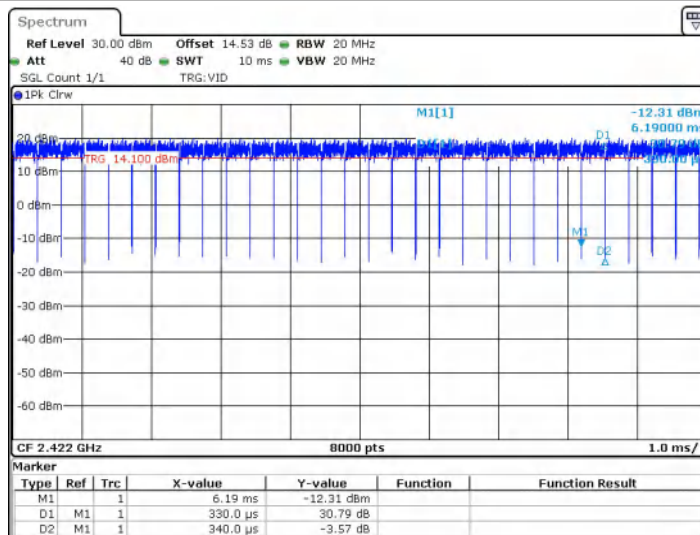


Date: 11 DEC 2025 11:34:35

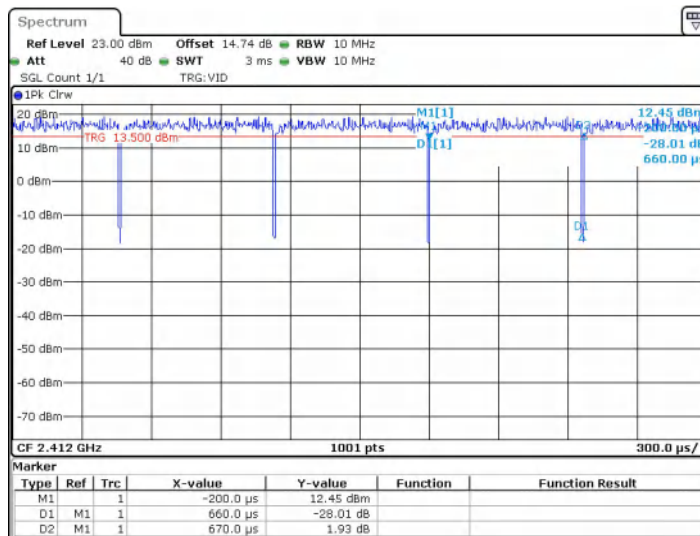
Test Graph_IEEE802.11 n (HT20) Duty Cycle:



Test Graph_IEEE802.11 n (HT40) Duty Cycle:

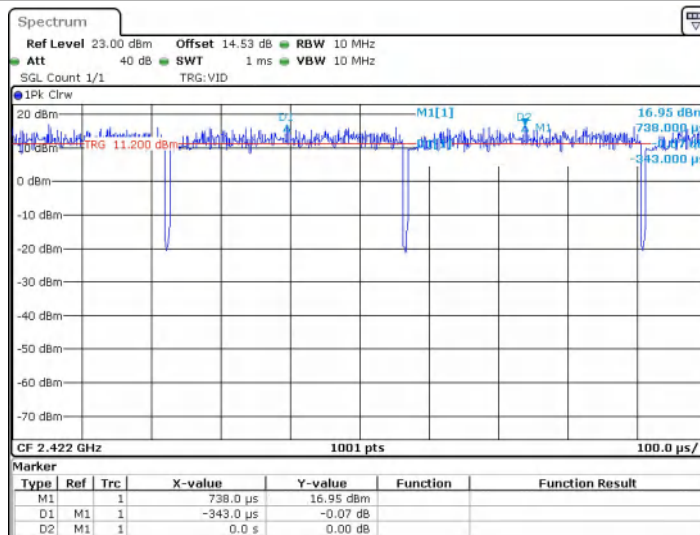


Test Graph_IEEE802.11 ax (HE20) Duty Cycle:



Date: 11 DEC 2025 11:56:20

Test Graph_IEEE802.11 ax (HE40) Duty Cycle:



Date: 11 DEC 2025 13:40:09

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.7 Test Facility

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

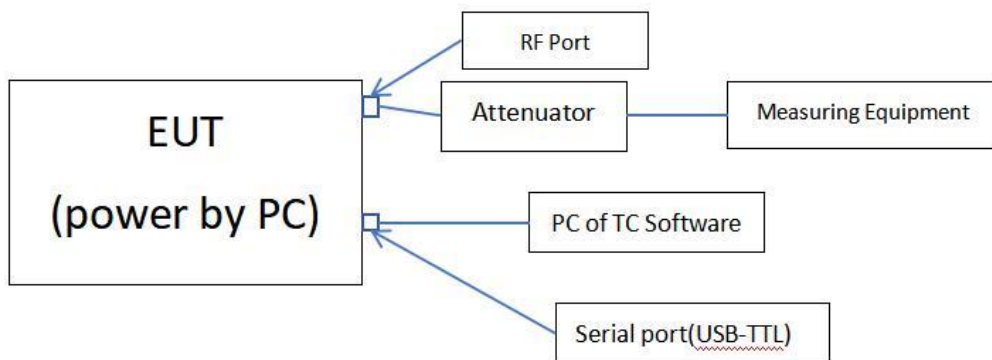
• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Test configuration



4.9 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

4.10 Deviation from Standards

None.

4.11 Abnormalities from Standard Conditions

None.

4.12 Other Information Requested by the Customer

None.

4.13 Equipment List

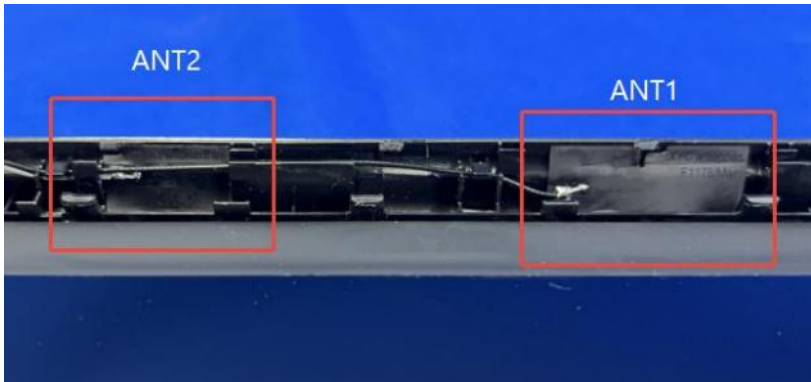
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU26	CQA-038	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU40	CQA-075	2025/9/1	2026/8/31
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2025/9/1	2026/8/31
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2025/9/1	2026/8/31
Preamplifier	EMCI	EMC184055SE	CQA-089	2025/9/1	2026/8/31
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2025/9/1	2026/8/31
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2025/9/1	2026/8/31
Antenna Connector	CQA	RFC-01	CQA-080	2025/9/1	2026/8/31
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2025/9/1	2026/8/31
Power meter	R&S	NRVD	CQA-029	2025/9/1	2026/8/31
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2025/9/1	2026/8/31
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
LISN	R&S	ENV216	CQA-003	2025/9/1	2026/8/31
Coaxial cable	CQA	N/A	CQA-C009	2025/9/1	2026/8/31
DC power	KEYSIGHT	E3631A	CQA-028	2025/9/1	2026/8/31

Test software:

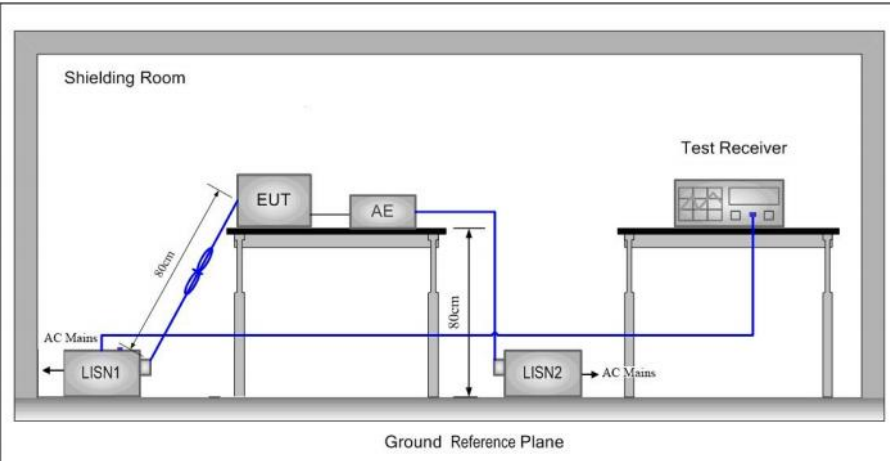
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

5 Test results and Measurement Data

5.1 Antenna Requirement

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

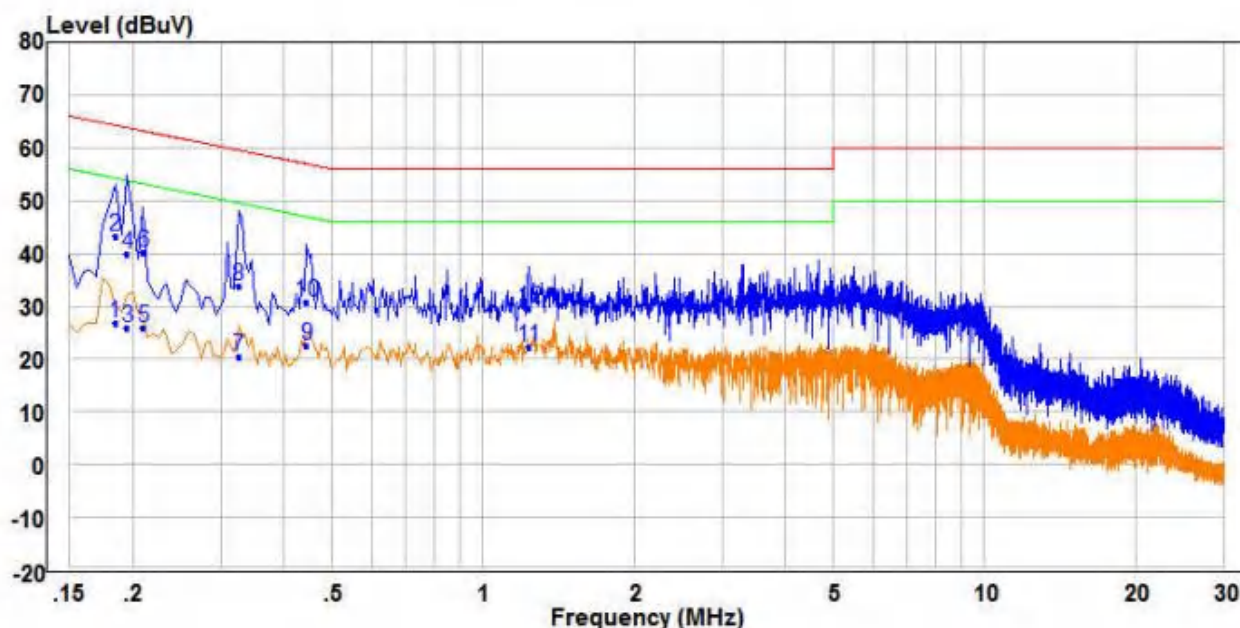
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2020		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) 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: 2020 on conducted measurement.		
Test Setup:			

Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data

Live Line:

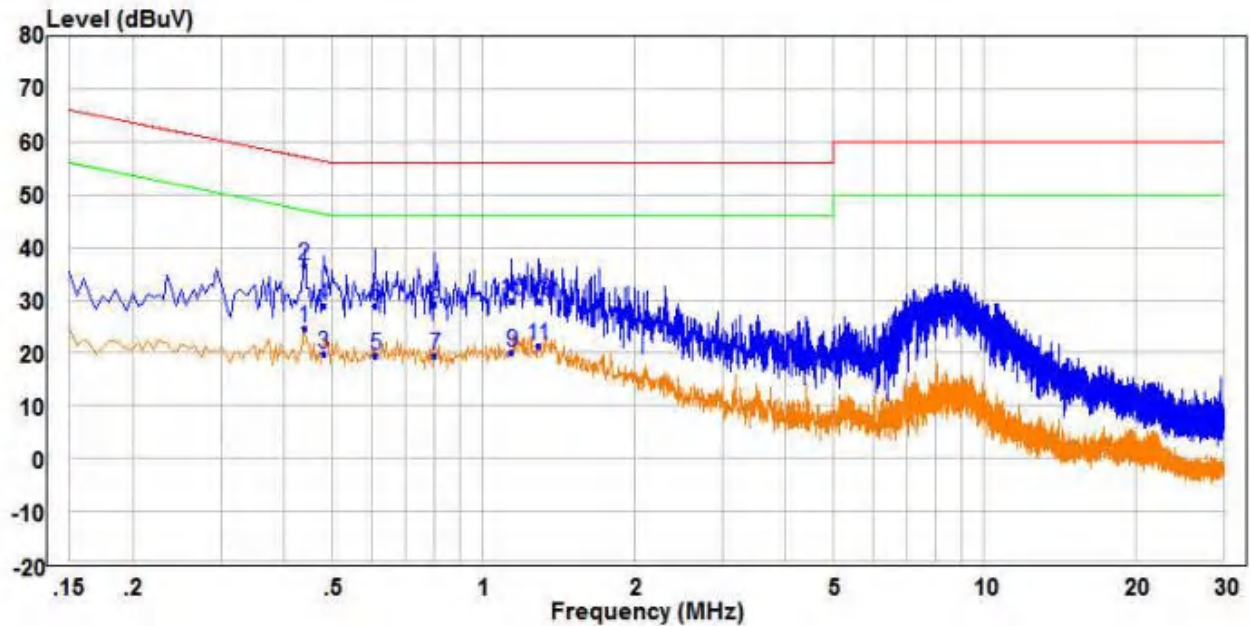


	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.185	17.09	9.64	26.73	54.26	-27.53	Average	Line
2 PP	0.185	33.55	9.64	43.19	64.26	-21.07	QP	Line
3	0.195	16.32	9.62	25.94	53.82	-27.88	Average	Line
4	0.195	30.42	9.62	40.04	63.82	-23.78	QP	Line
5	0.210	16.43	9.60	26.03	53.21	-27.18	Average	Line
6	0.210	30.51	9.60	40.11	63.21	-23.10	QP	Line
7	0.325	10.99	9.52	20.51	49.58	-29.07	Average	Line
8	0.325	24.33	9.52	33.85	59.58	-25.73	QP	Line
9	0.445	12.90	9.65	22.55	46.97	-24.42	Average	Line
10	0.445	20.99	9.65	30.64	56.97	-26.33	QP	Line
11 AV	1.235	11.99	10.29	22.28	46.00	-23.72	Average	Line
12	1.235	19.17	10.29	29.46	56.00	-26.54	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:

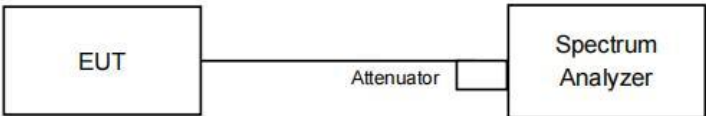


		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	Pol/Phase
1	AV	0.440	14.94	9.64	24.58	47.06	-22.48 Average
2	PP	0.440	26.92	9.64	36.56	57.06	-20.50 QP
3		0.480	10.28	9.68	19.96	46.34	-26.38 Average
4		0.480	19.16	9.68	28.84	56.34	-27.50 QP
5		0.610	9.75	9.81	19.56	46.00	-26.44 Average
6		0.610	19.03	9.81	28.84	56.00	-27.16 QP
7		0.800	9.71	9.83	19.54	46.00	-26.46 Average
8		0.800	19.34	9.83	29.17	56.00	-26.83 QP
9		1.140	10.35	9.71	20.06	46.00	-25.94 Average
10		1.140	20.30	9.71	30.01	56.00	-25.99 QP
11		1.290	11.53	9.71	21.24	46.00	-24.76 Average
12		1.290	20.04	9.71	29.75	56.00	-26.25 QP

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10: 2020
Test Setup:	<i>Setup for Power meter measurement method</i>  <i>Setup for Spectrum analyser measurement method</i> 
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Test Result

ANT1:

Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	19.02	≤30.00	PASS
	2437	20.16	≤30.00	PASS
	2462	20.94	≤30.00	PASS
11G	2412	16.84	≤30.00	PASS
	2437	18.11	≤30.00	PASS
	2462	18.77	≤30.00	PASS
11N20SISO	2412	14.20	≤30.00	PASS
	2437	16.76	≤30.00	PASS
	2462	17.43	≤30.00	PASS
11N40SISO	2422	15.07	≤30.00	PASS
	2437	15.93	≤30.00	PASS
	2452	16.27	≤30.00	PASS
11AX20SISO	2412	15.77	≤30.00	PASS
	2437	16.95	≤30.00	PASS
	2462	17.62	≤30.00	PASS
11AX40SISO	2422	15.49	≤30.00	PASS
	2437	16.25	≤30.00	PASS
	2452	16.70	≤30.00	PASS

ANT2:

Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	15.84	≤30.00	PASS
	2437	15.52	≤30.00	PASS
	2462	14.92	≤30.00	PASS
11G	2412	11.84	≤30.00	PASS
	2437	11.77	≤30.00	PASS
	2462	11.22	≤30.00	PASS
11N20SISO	2412	11.65	≤30.00	PASS
	2437	11.55	≤30.00	PASS
	2462	10.98	≤30.00	PASS
11N40SISO	2422	11.29	≤30.00	PASS
	2437	11.05	≤30.00	PASS
	2452	10.75	≤30.00	PASS
11AX20SISO	2412	12.83	≤30.00	PASS
	2437	12.79	≤30.00	PASS
	2462	12.26	≤30.00	PASS
11AX40SISO	2422	11.83	≤30.00	PASS
	2437	11.70	≤30.00	PASS
	2452	11.34	≤30.00	PASS

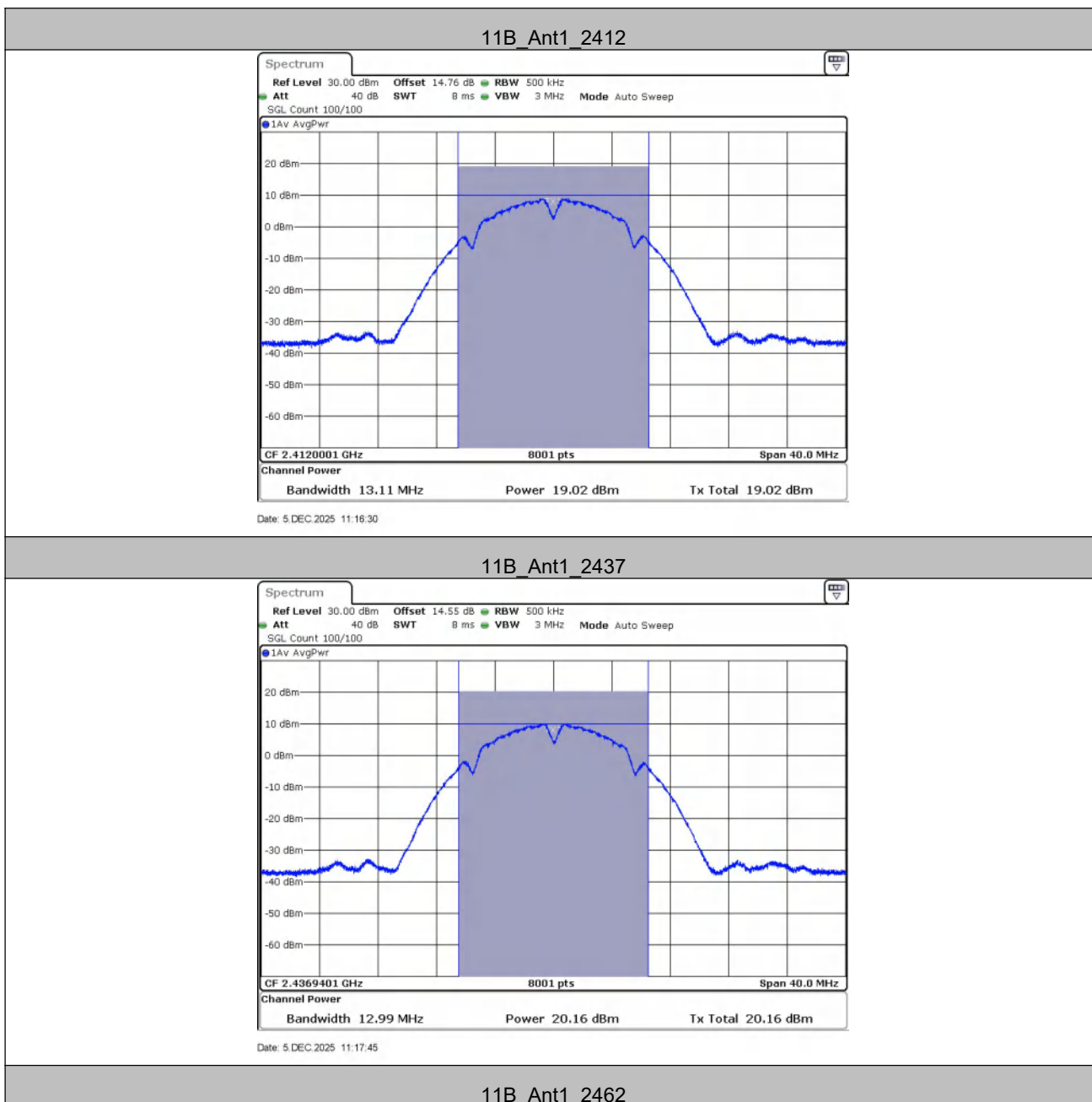
ANT1+ANT2:

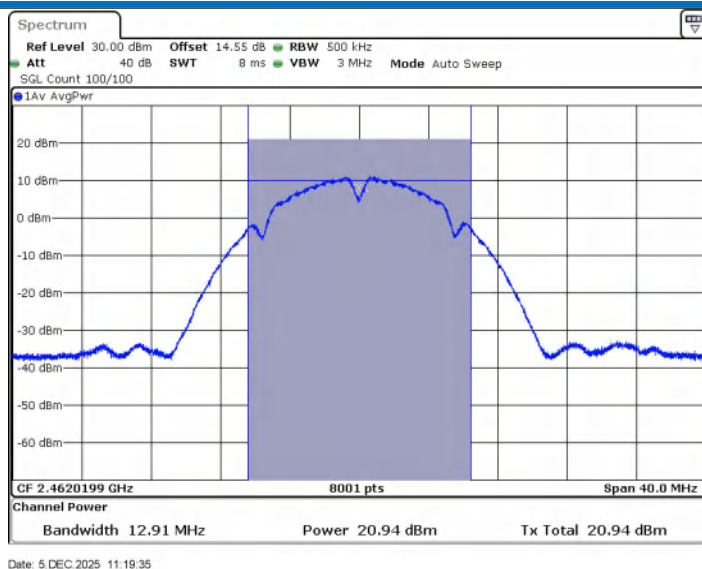
Test Mode	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	2412	16.12	≤30.00	PASS
	2437	17.90	≤30.00	PASS
	2462	18.32	≤30.00	PASS
11N40MIMO	2422	16.59	≤30.00	PASS
	2437	17.15	≤30.00	PASS
	2452	17.34	≤30.00	PASS
11AX20MIMO	2412	17.55	≤30.00	PASS
	2437	18.36	≤30.00	PASS
	2462	18.73	≤30.00	PASS
11AX40MIMO	2422	17.04	≤30.00	PASS
	2437	17.56	≤30.00	PASS
	2452	17.81	≤30.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

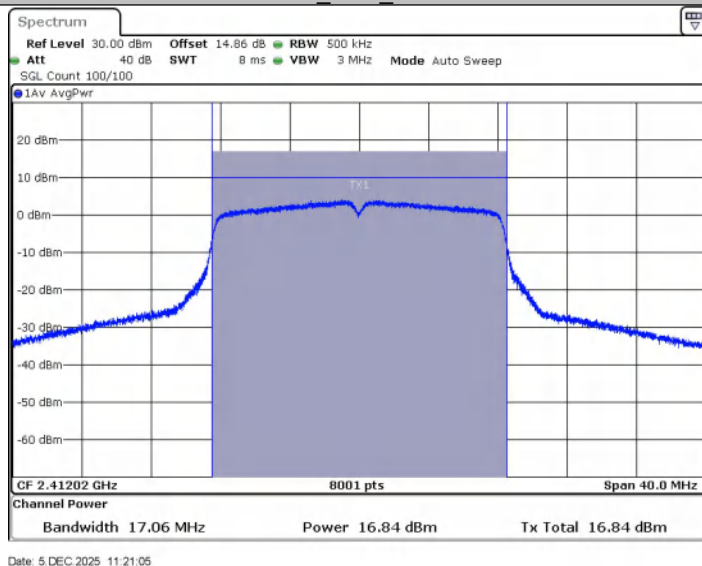
When Duty cycle >98%, D.C.F is not required.

Test Graphs

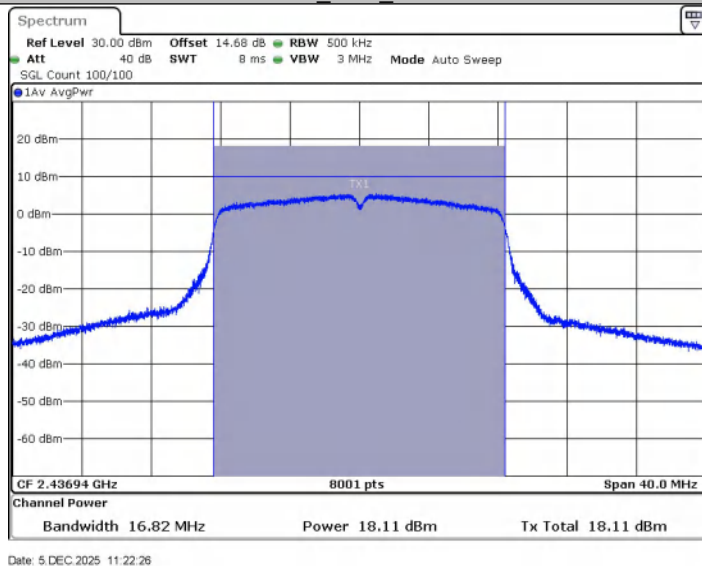




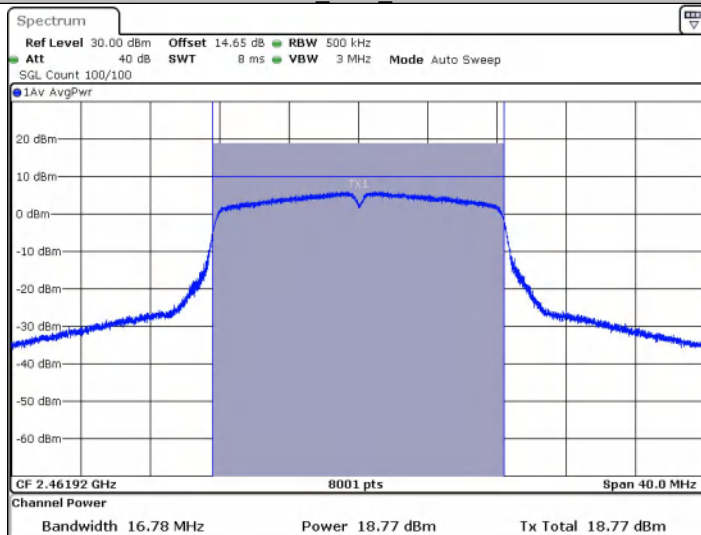
11G_Ant1_2412



11G_Ant1_2437

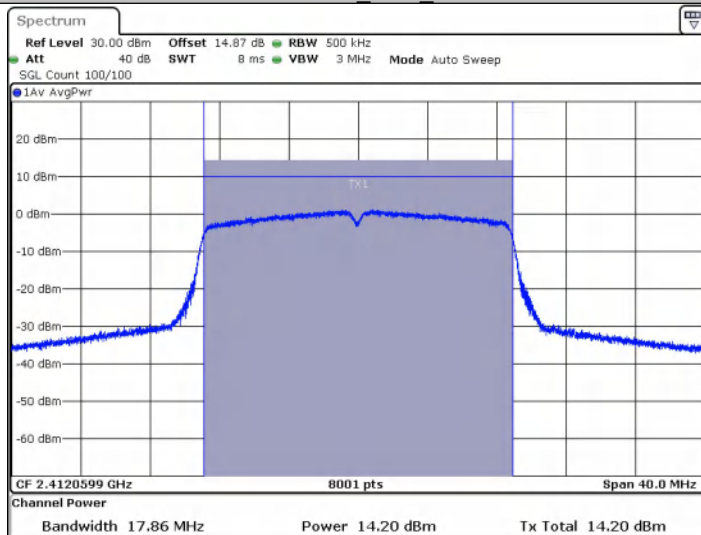


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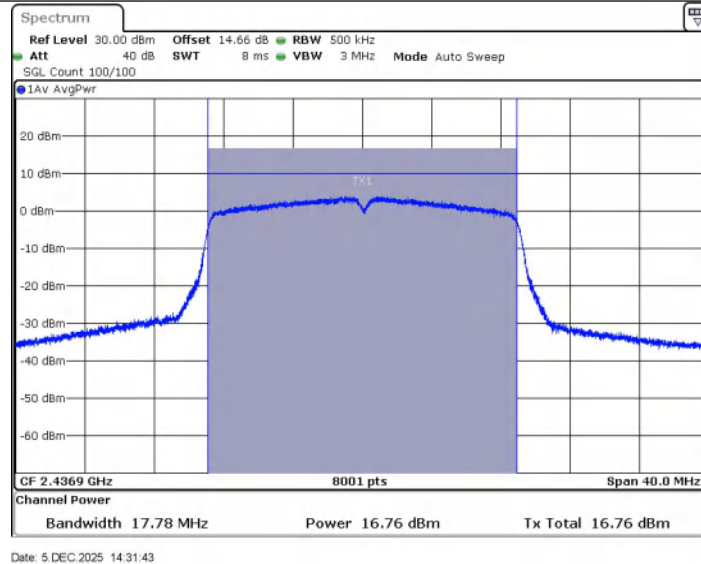
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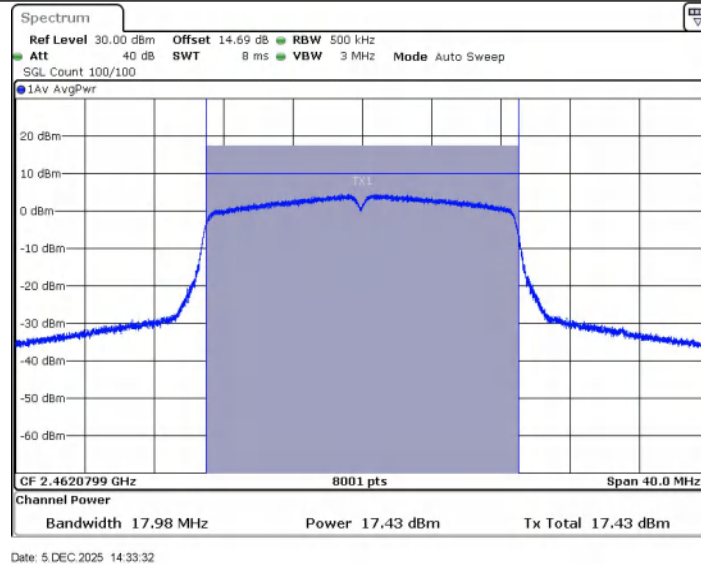


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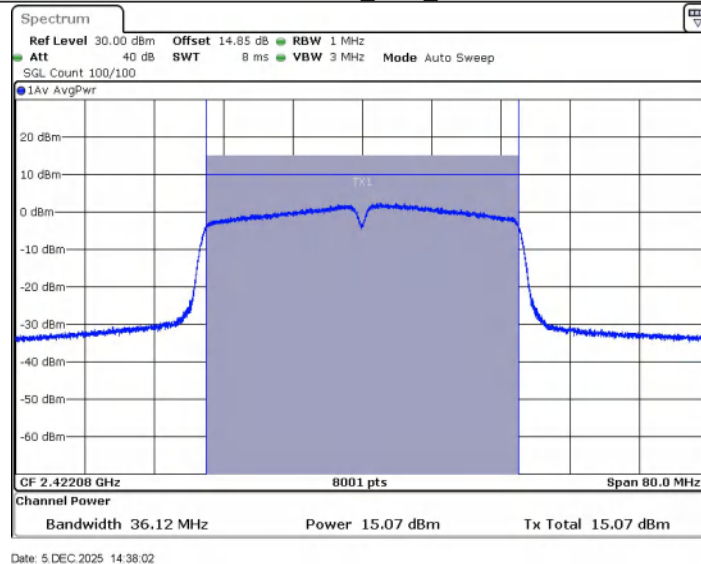
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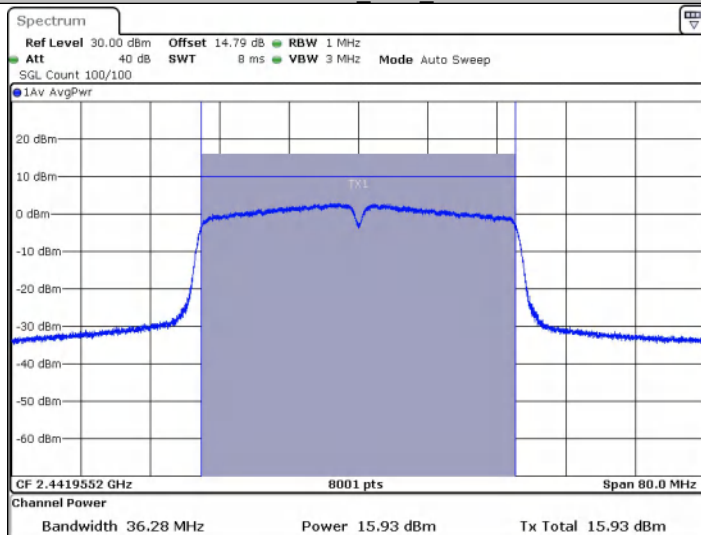
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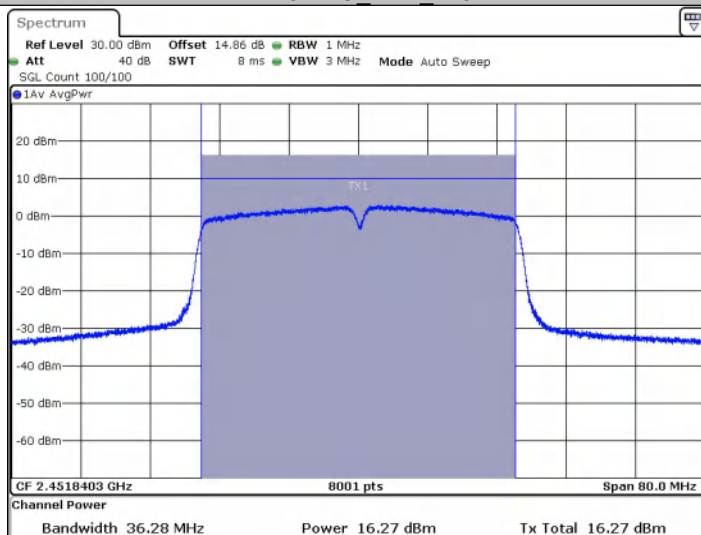


11N40SISO_Ant1_2437



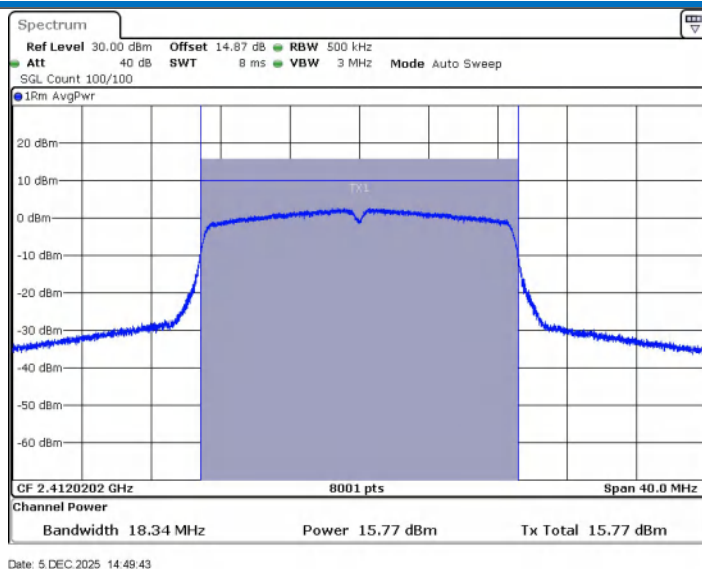
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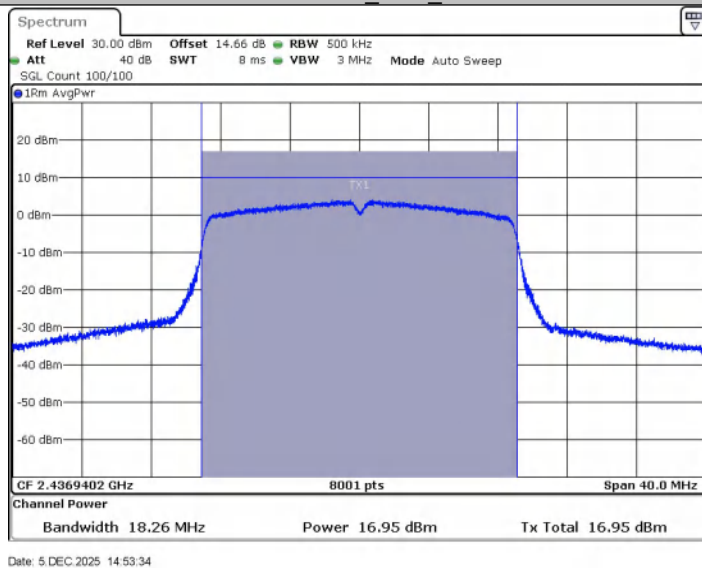


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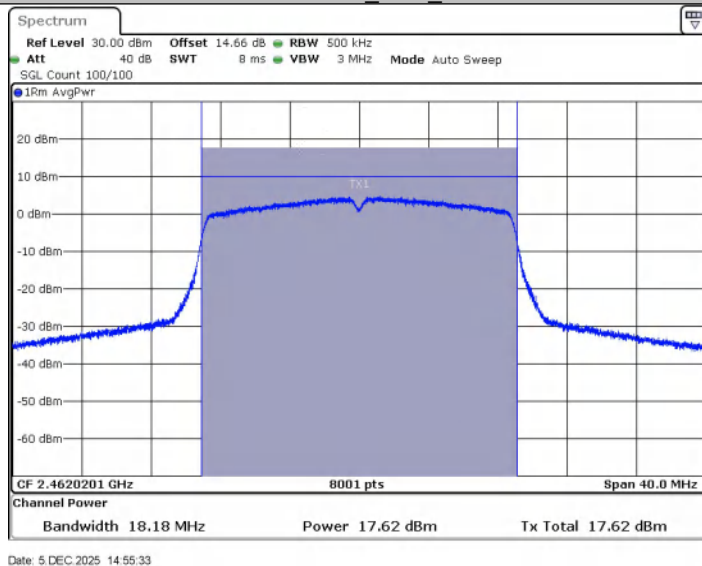
11AX20SISO_Ant1_2412



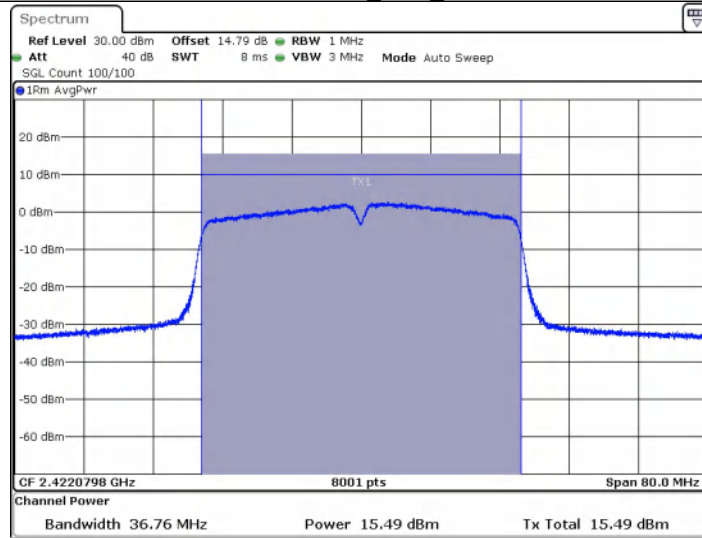
11AX20SISO_Ant1_2437



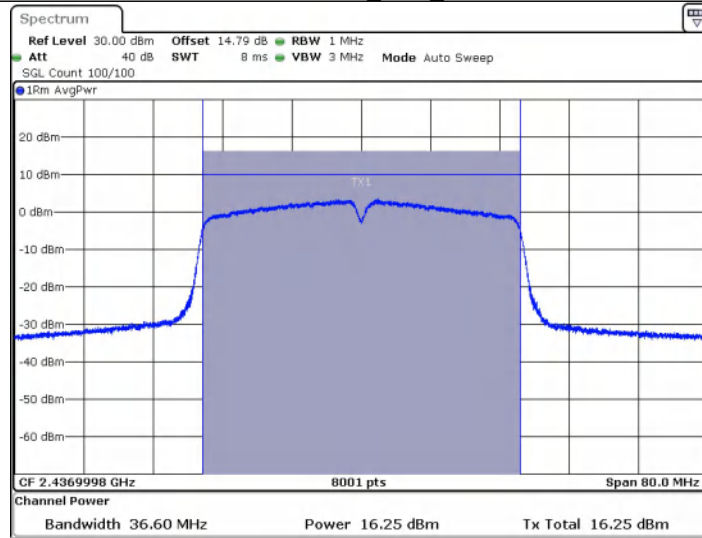
11AX20SISO_Ant1_2462



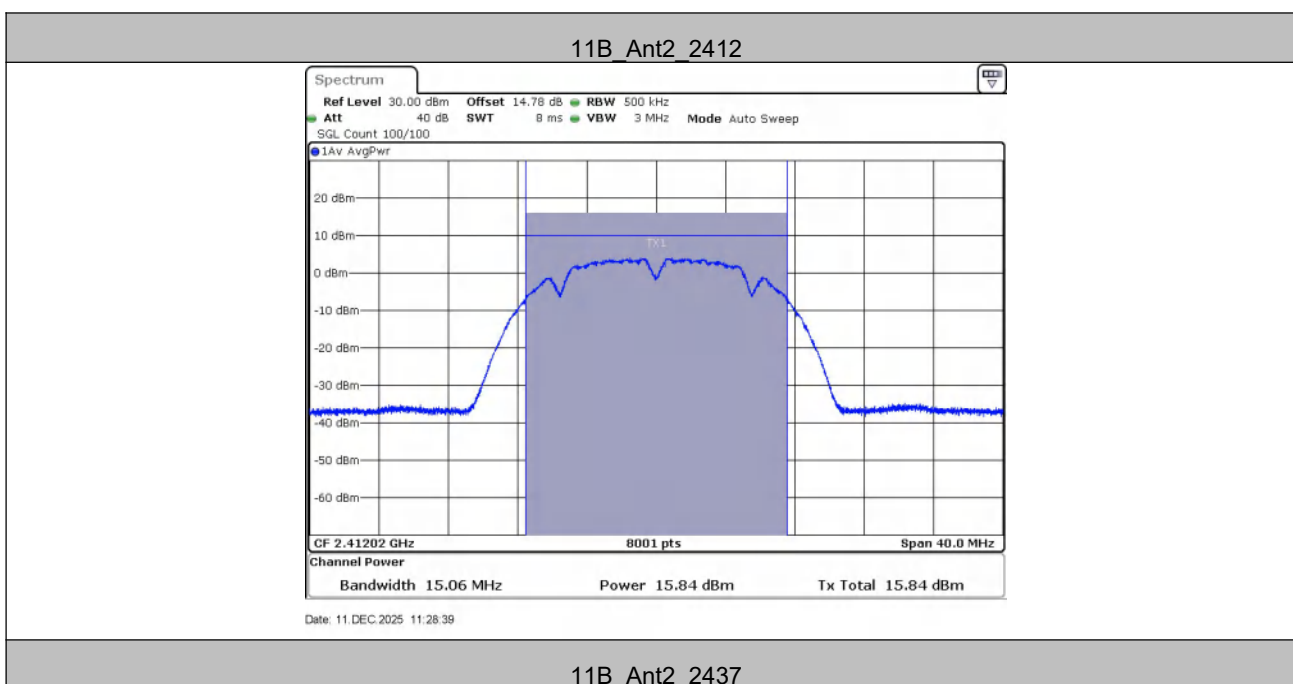
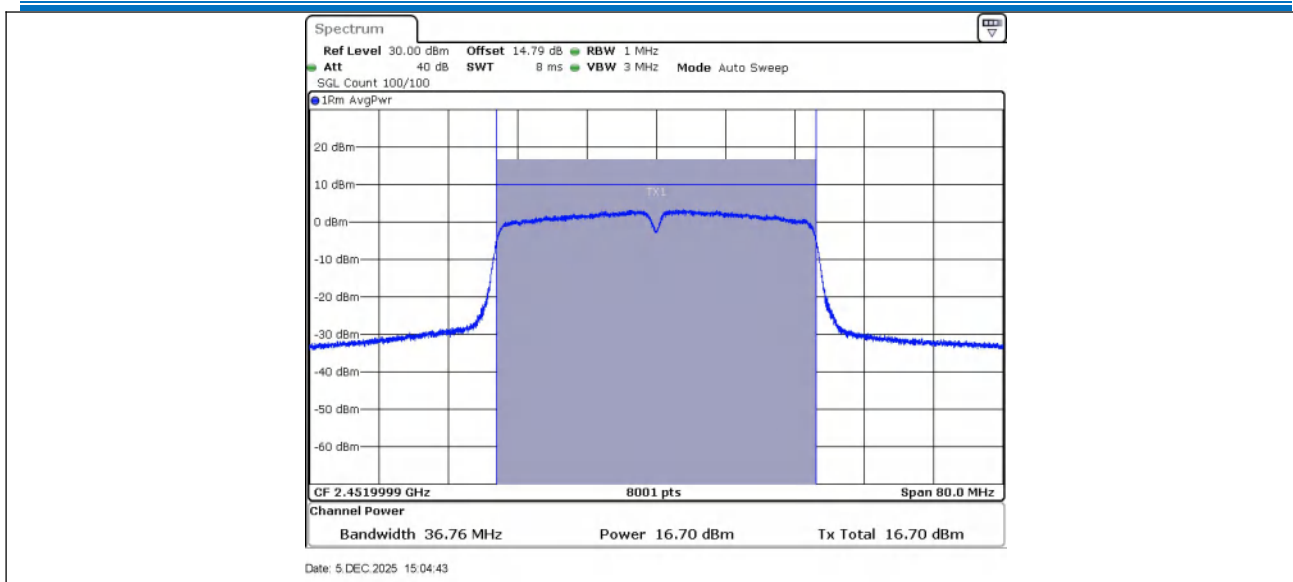
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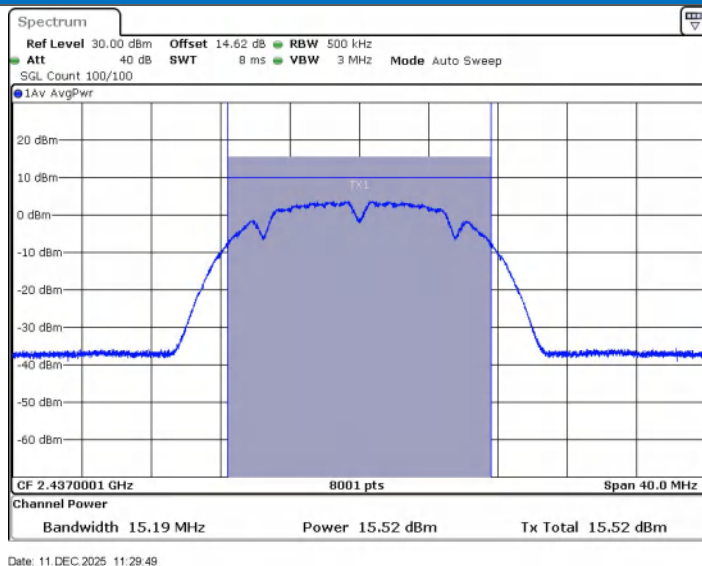


11AX40SISO_Ant1_2437

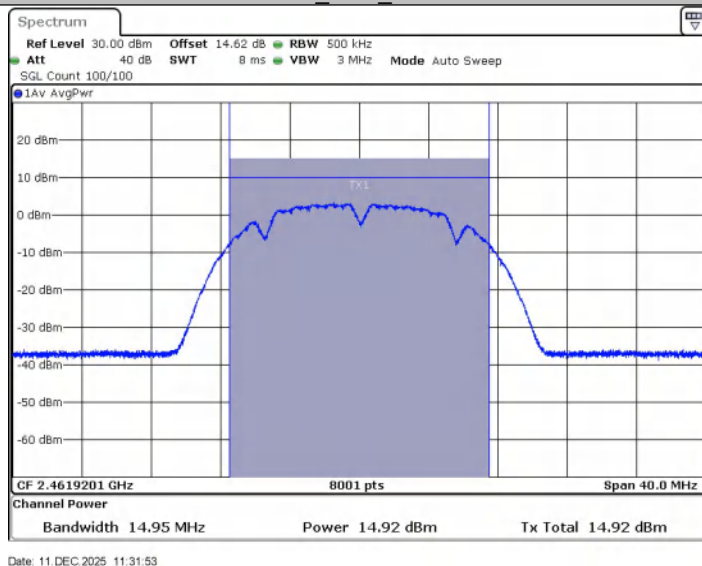


11AX40SISO_Ant1_2452

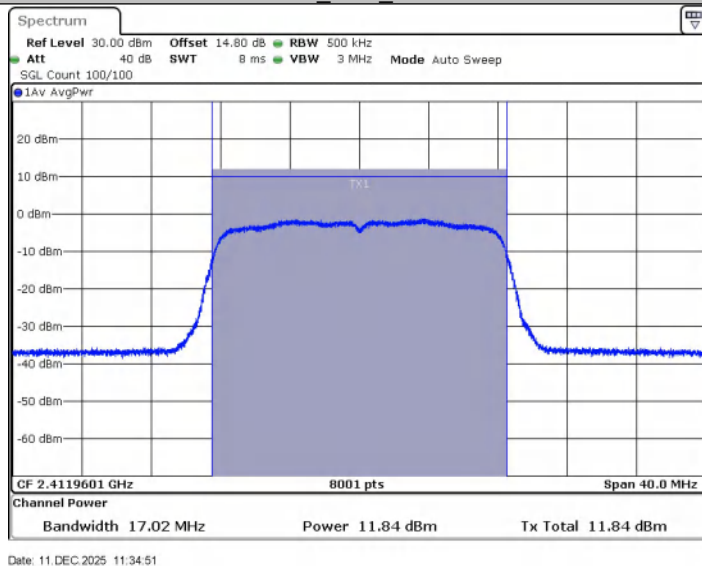




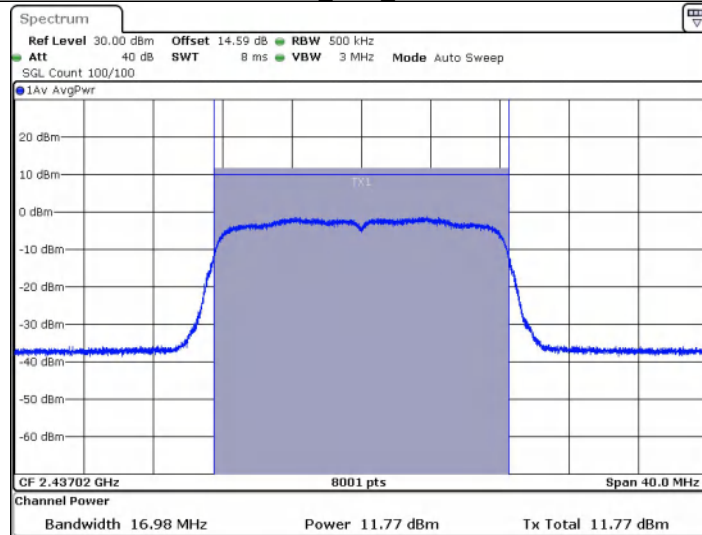
11B_Ant2_2462



11G_Ant2_2412

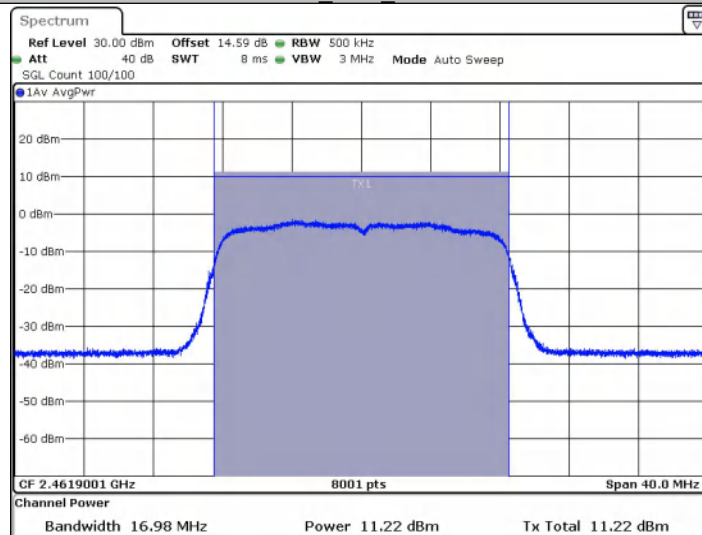


11G_Ant2_2437



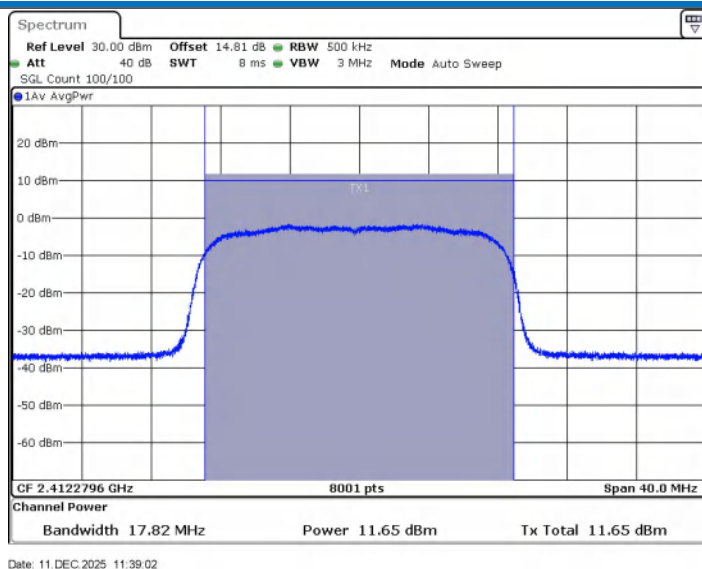
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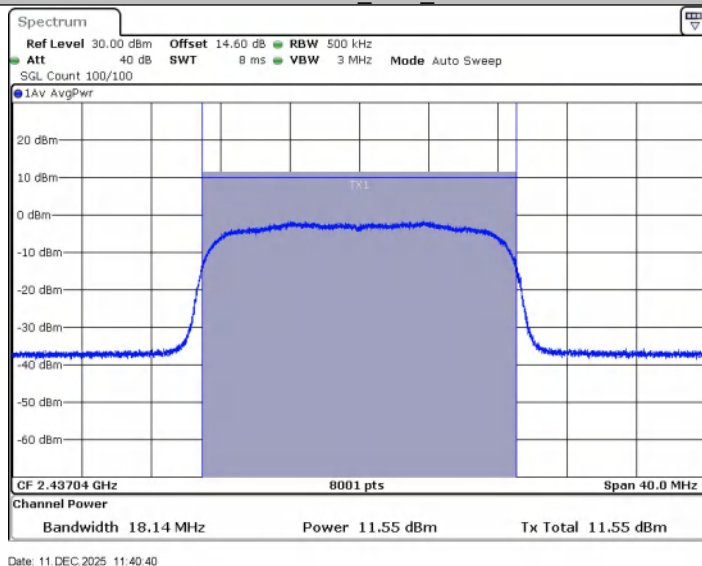


Date: 11.DEC.2025 11:37:36

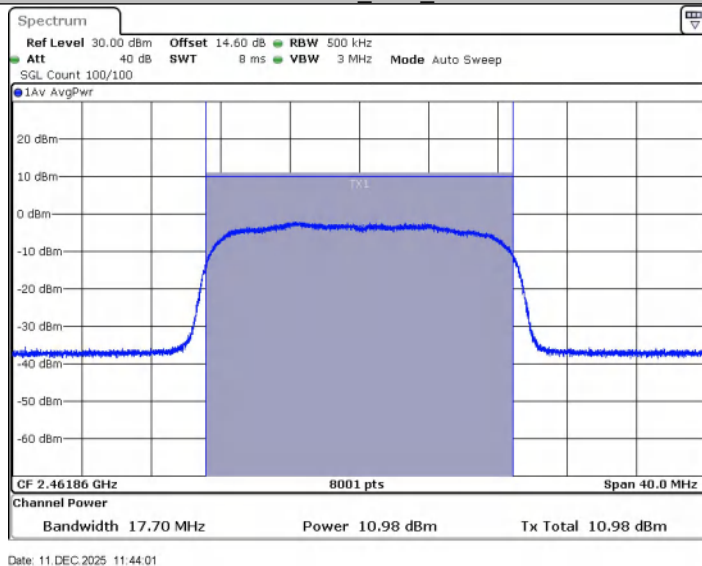
11N20SISO_Ant2_2412



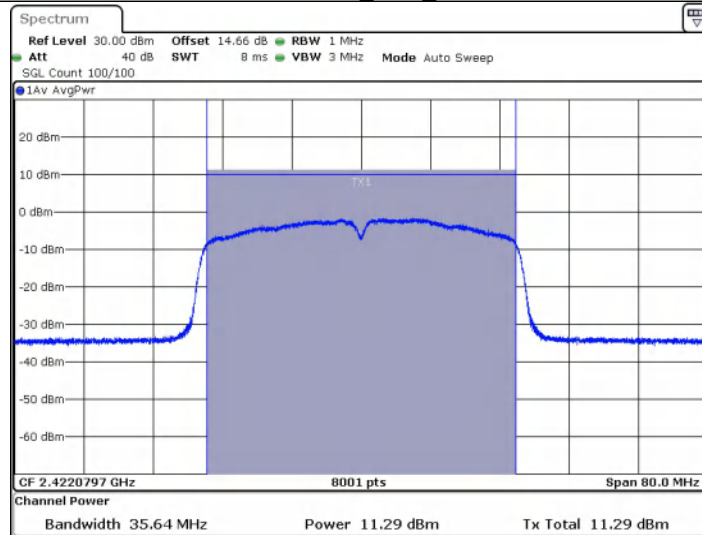
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462

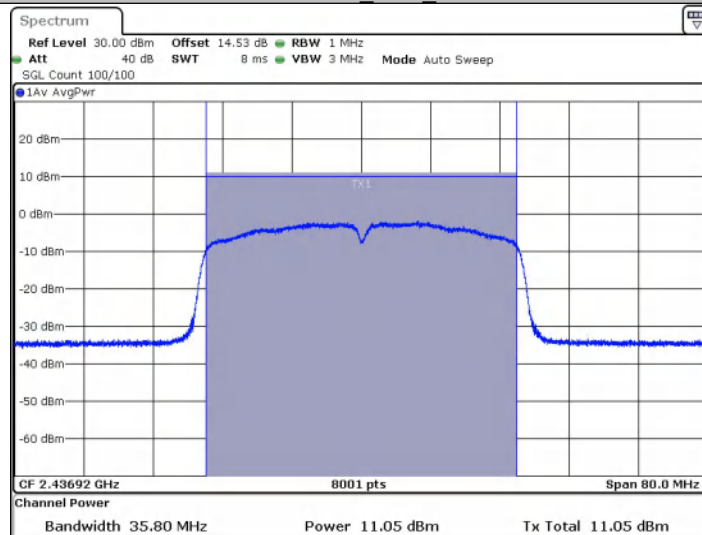


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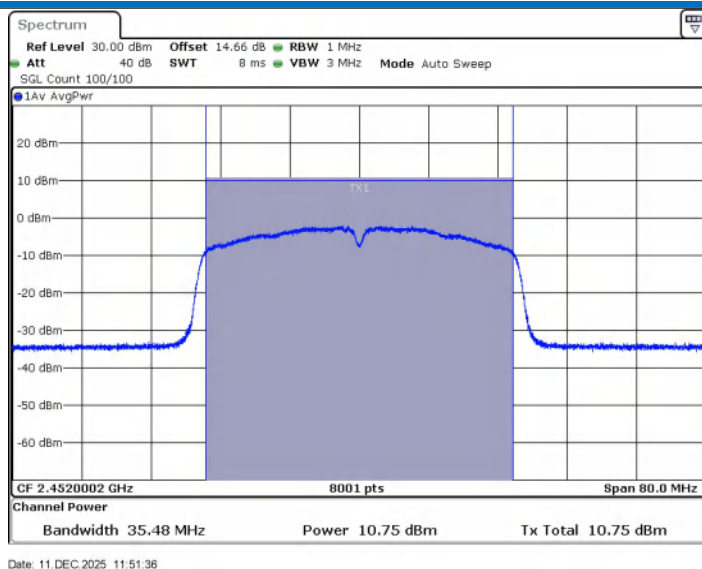
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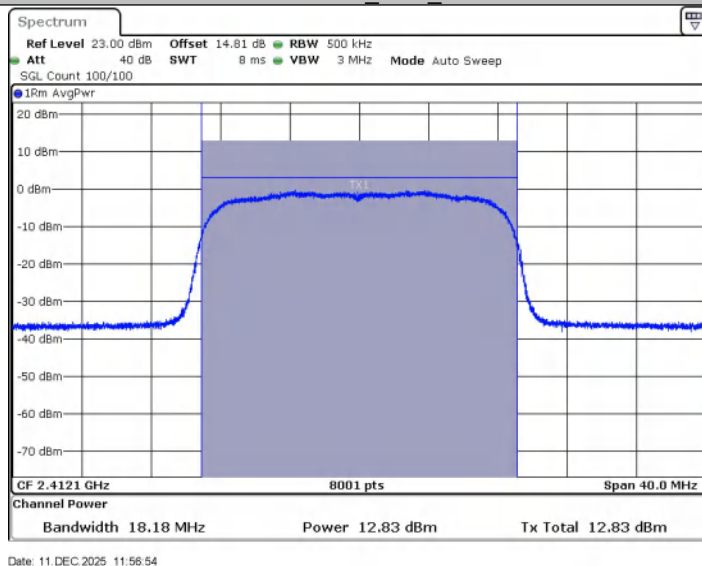


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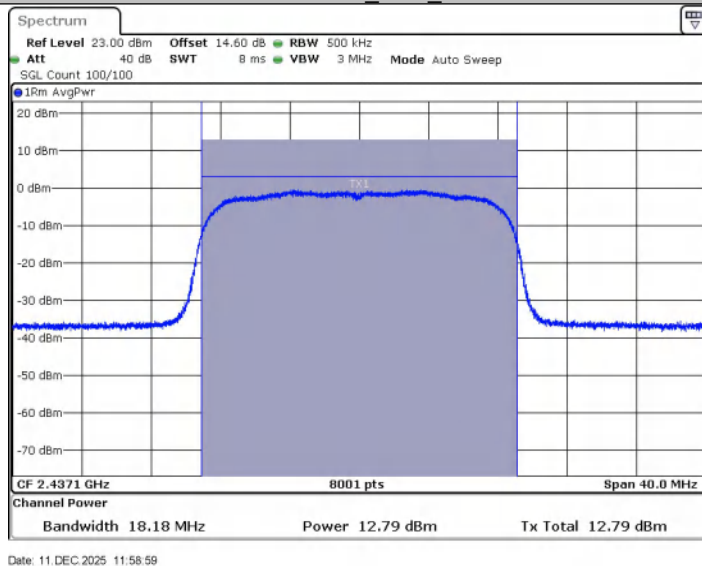
11N40SISO_Ant2_2452



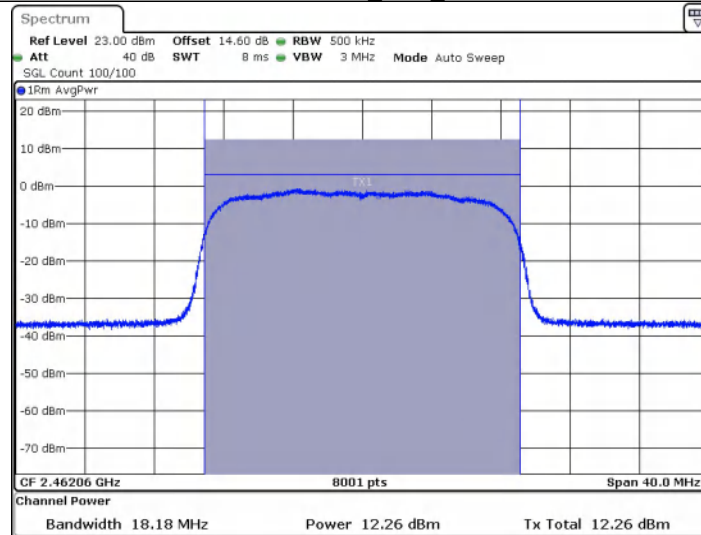
11AX20SISO_Ant2_2412



11AX20SISO_Ant2_2437

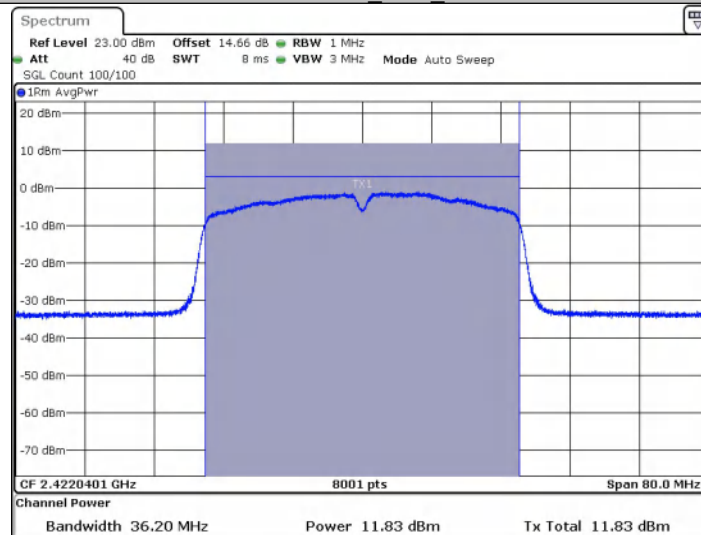


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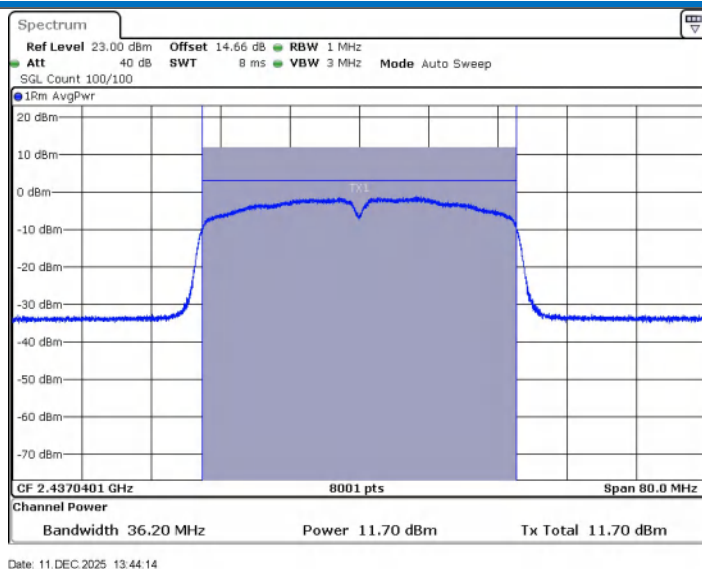
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11AX40SISO_Ant2_2422

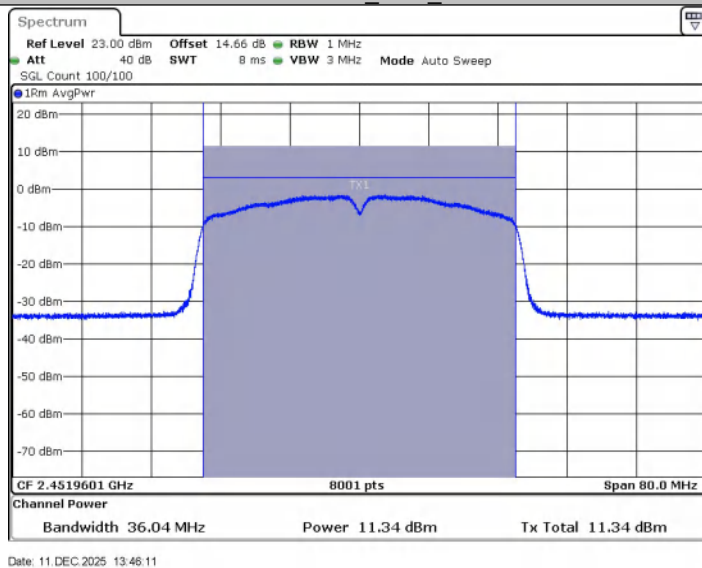


Date: 11.DEC.2025 13:40:37

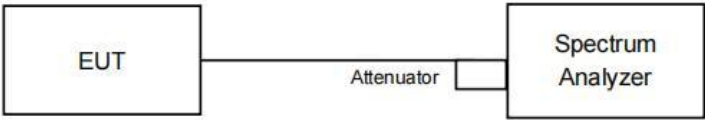
11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452



5.4 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Test Result

ANT1:

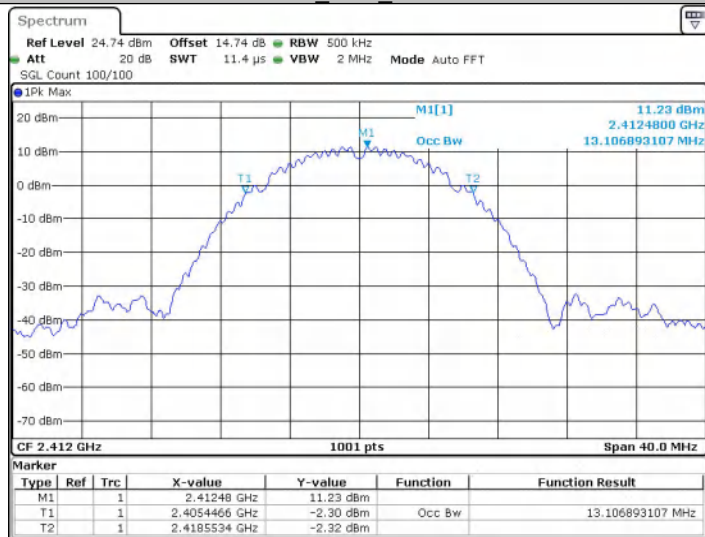
TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	13.107	2405.4466	2418.5534
	2437	12.987	2430.4466	2443.4336
	2462	12.907	2455.5664	2468.4735
11G	2412	17.063	2403.4885	2420.5514
	2437	16.823	2428.5285	2445.3516
	2462	16.783	2453.5285	2470.3117
11N20SISO	2412	17.862	2403.1289	2420.9910
	2437	17.782	2428.0090	2445.7912
	2462	17.982	2453.0889	2471.0709
11N40SISO	2422	36.124	2404.0180	2440.1419
	2437	36.284	2423.8132	2460.0969
	2452	36.284	2433.6983	2469.9820
11AX20SISO	2412	18.342	2402.8492	2421.1908
	2437	18.262	2427.8092	2446.0709
	2462	18.182	2452.9291	2471.1109
11AX40SISO	2422	36.763	2403.6983	2440.4615
	2437	36.603	2418.6983	2455.3017
	2452	36.763	2433.6184	2470.3816

ANT2:

TestMode	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	2412	15.065	2404.4875	2419.5524
	2437	15.185	2429.4076	2444.5924
	2462	14.945	2454.4476	2469.3926
11G	2412	17.023	2403.4486	2420.4715
	2437	16.983	2428.5285	2445.5115
	2462	16.983	2453.4086	2470.3916
11N20SISO	2412	17.822	2403.3686	2421.1908
	2437	18.142	2427.9690	2446.1109
	2462	17.702	2453.0090	2470.7113
11N40SISO	2422	35.644	2404.2577	2439.9021
	2437	35.804	2419.0180	2454.8222
	2452	35.485	2434.2577	2469.7423
11AX20SISO	2412	18.342	2403.0090	2421.3506
	2437	18.182	2428.0090	2446.1908
	2462	18.182	2452.9690	2471.1508
11AX40SISO	2422	36.204	2403.9381	2440.1419
	2437	36.204	2418.9381	2455.1419
	2452	36.044	2433.9381	2469.9820

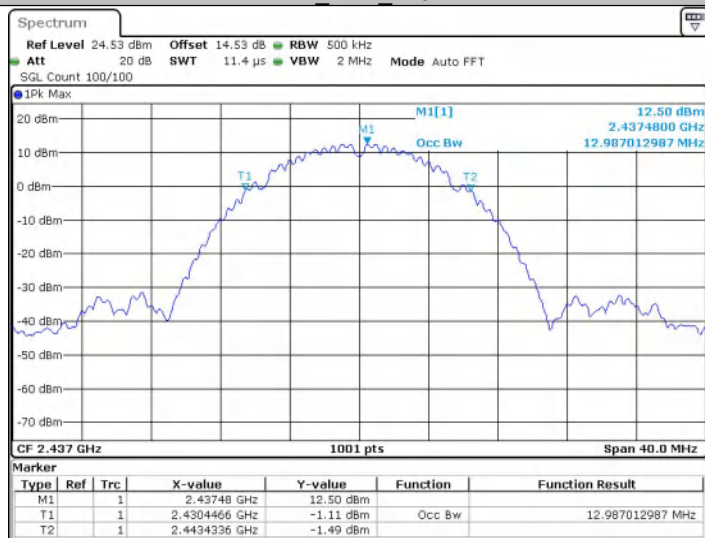
Test Graphs

11B_Ant1_2412



Date: 5 DEC 2025 11:16:24

11B_Ant1_2437



Date: 5 DEC 2025 11:17:40

11B_Ant1_2462



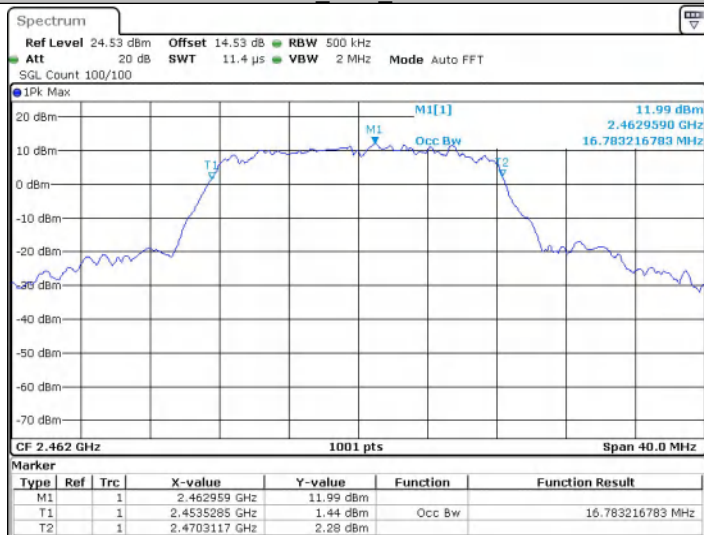
11G_Ant1_2412



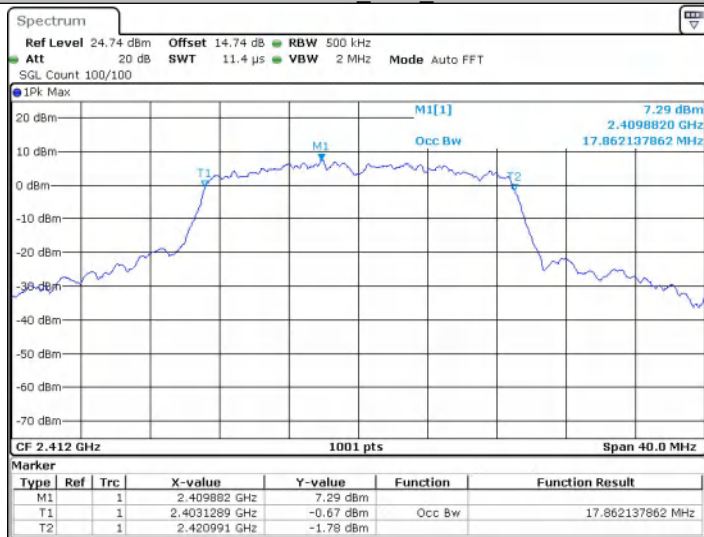
11G_Ant1_2437



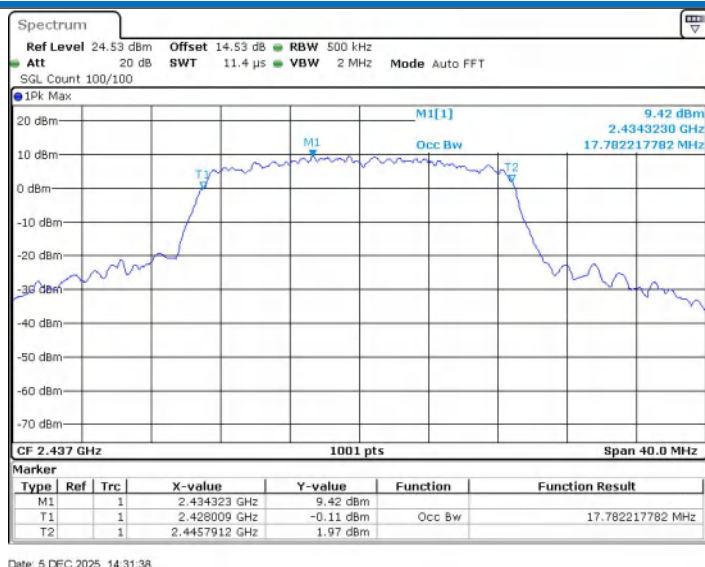
11G_Ant1_2462



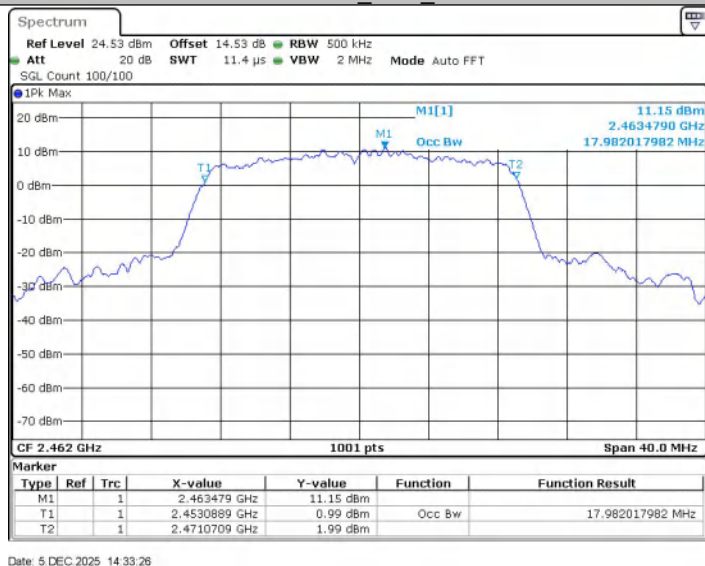
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



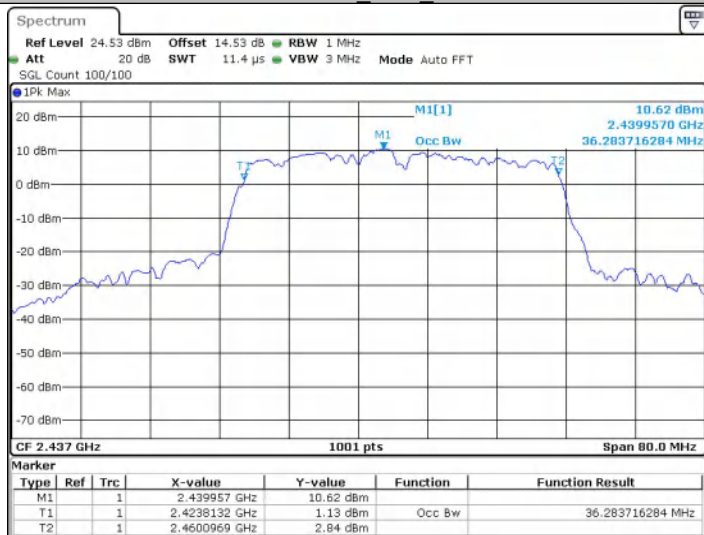
11N20SISO_Ant1_2462



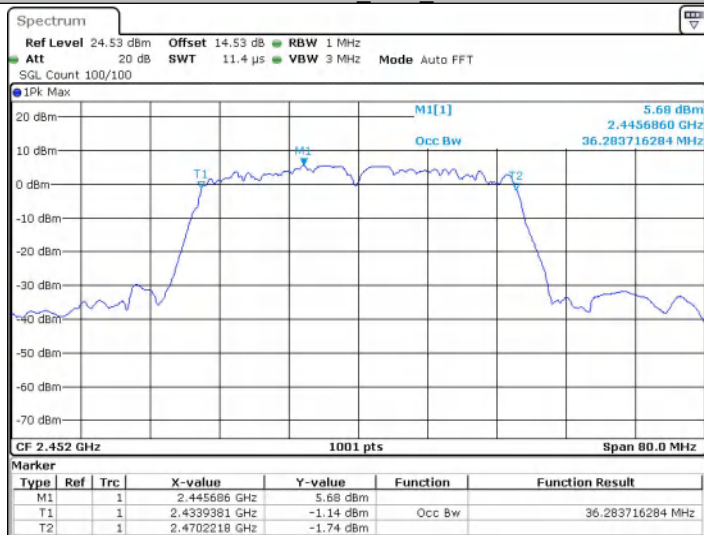
11N40SISO_Ant1_2422



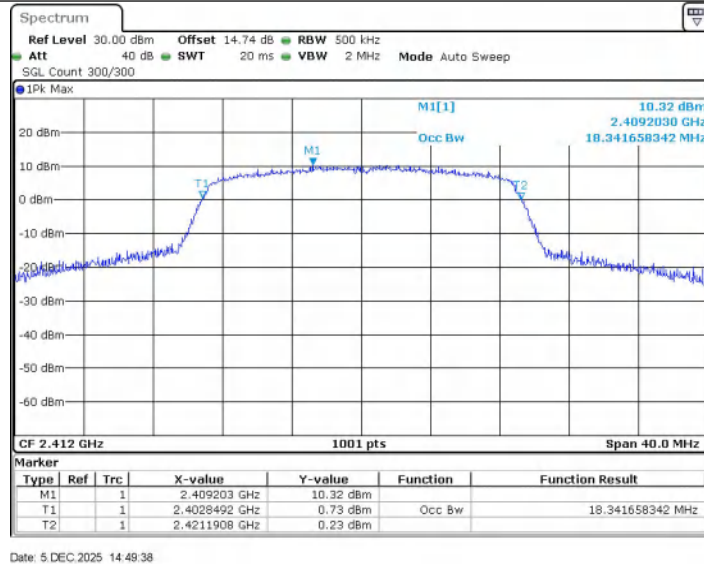
11N40SISO_Ant1_2437



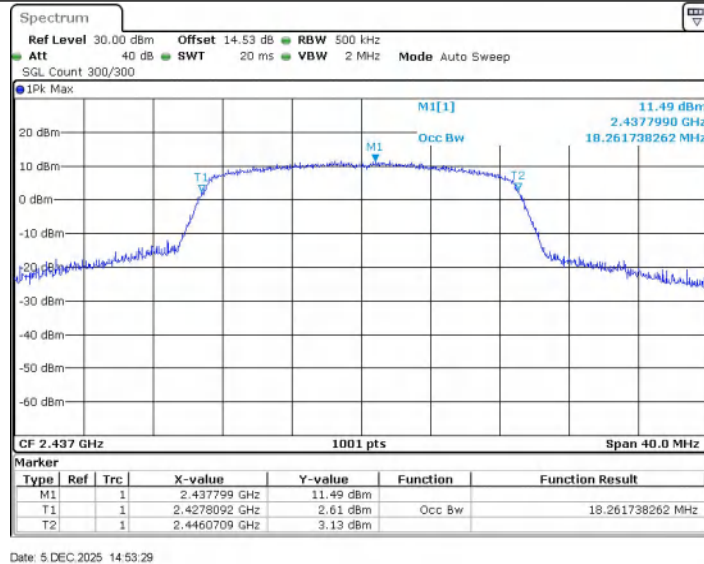
11N40SISO_Ant1_2452



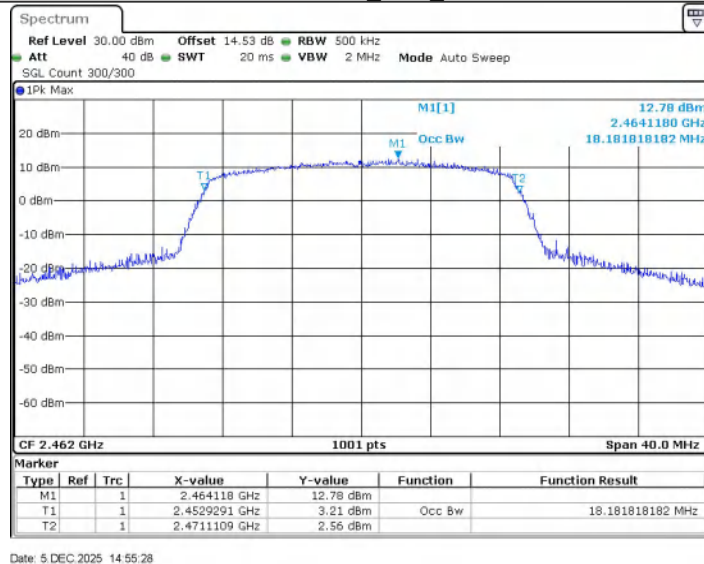
11AX20SISO_Ant1_2412



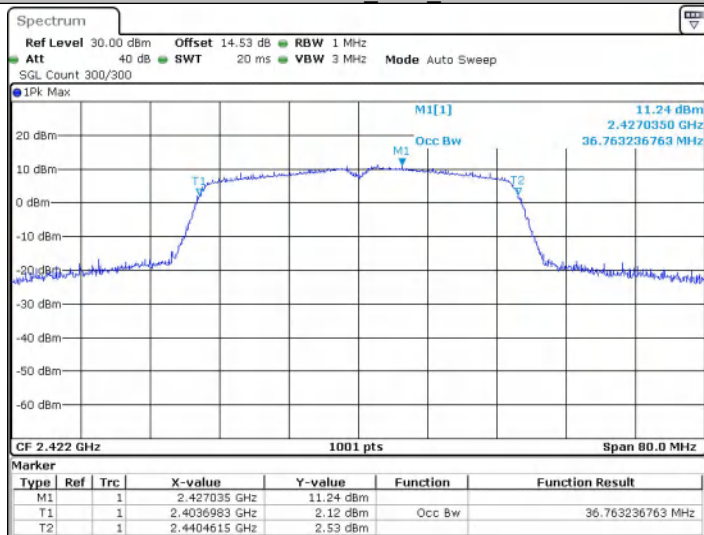
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

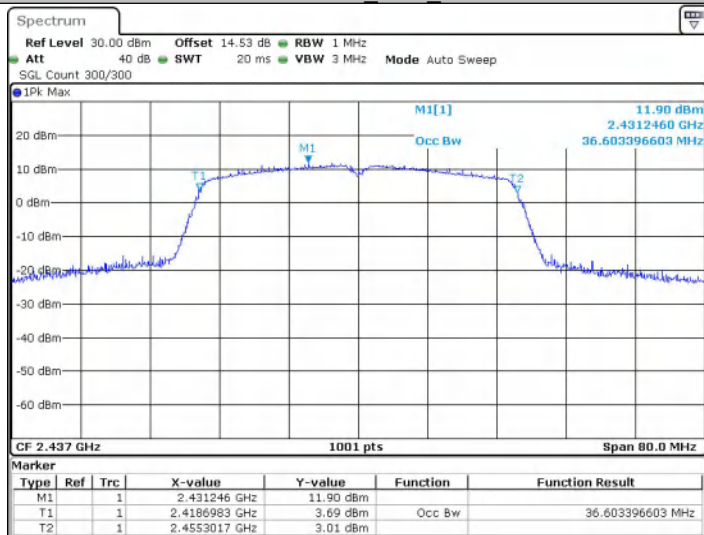


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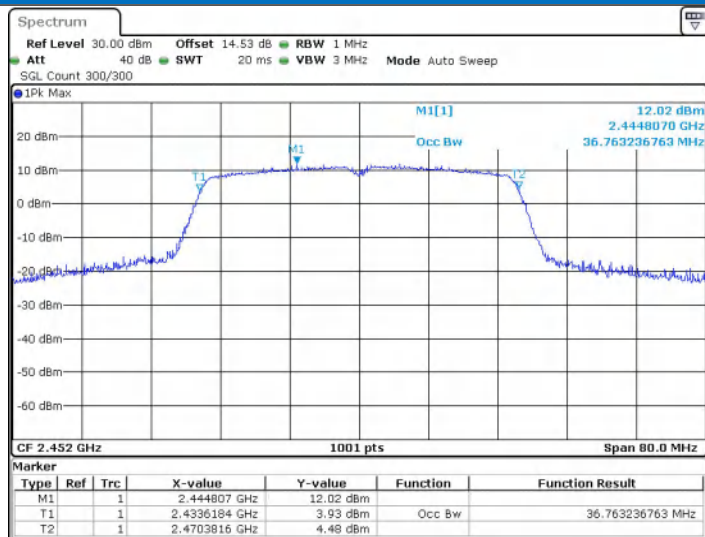
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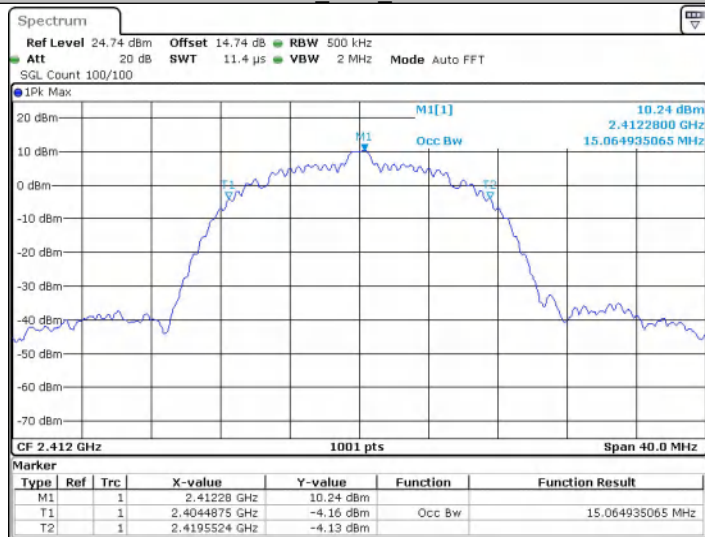
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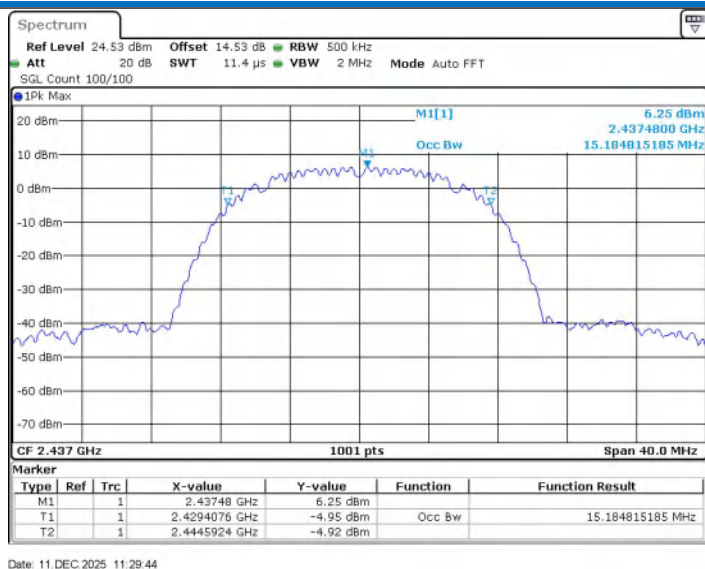
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11B_Ant2_2412

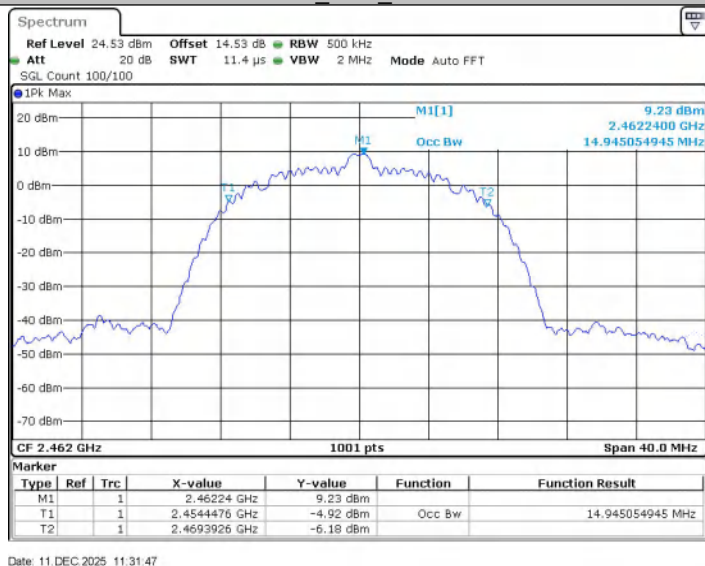


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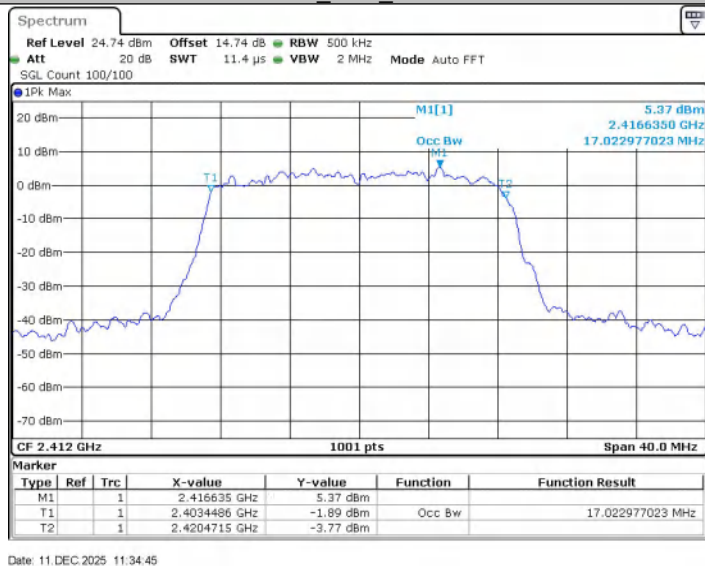
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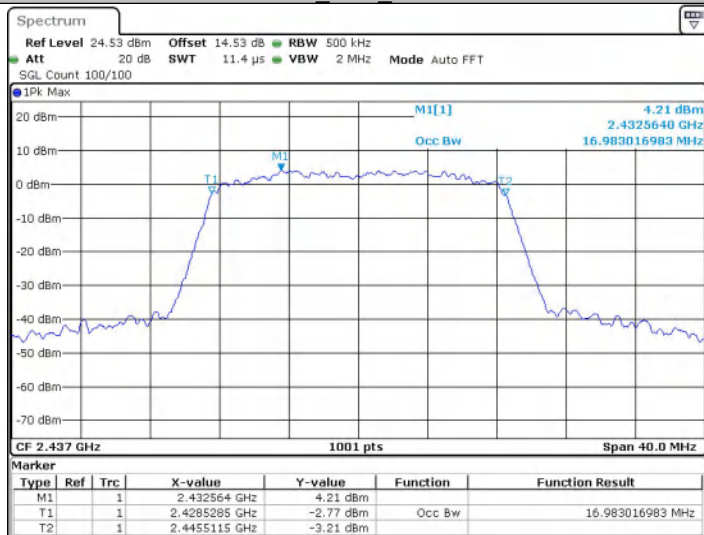
11B_Ant2_2462



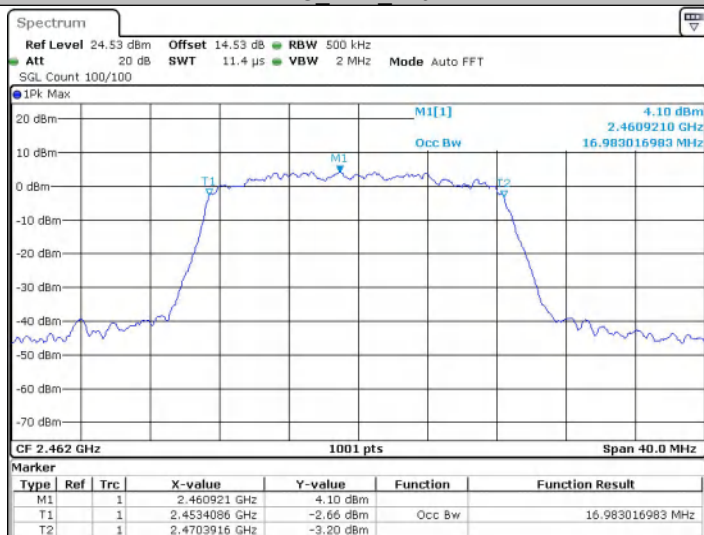
11G_Ant2_2412



11G_Ant2_2437



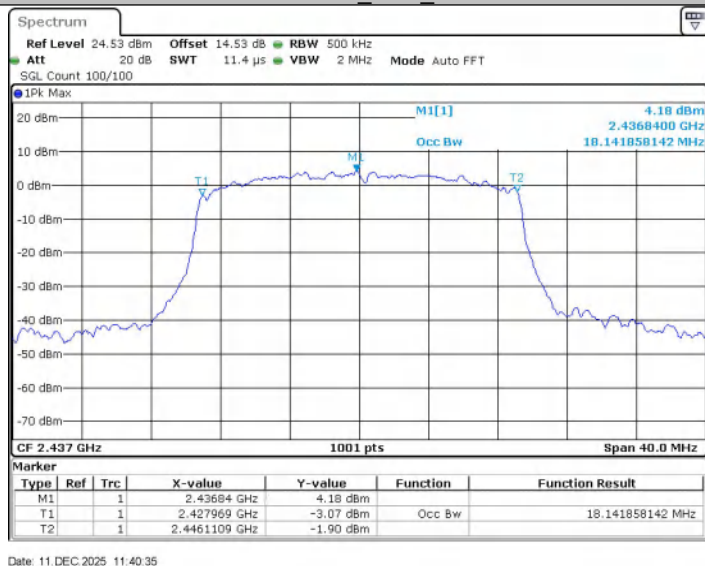
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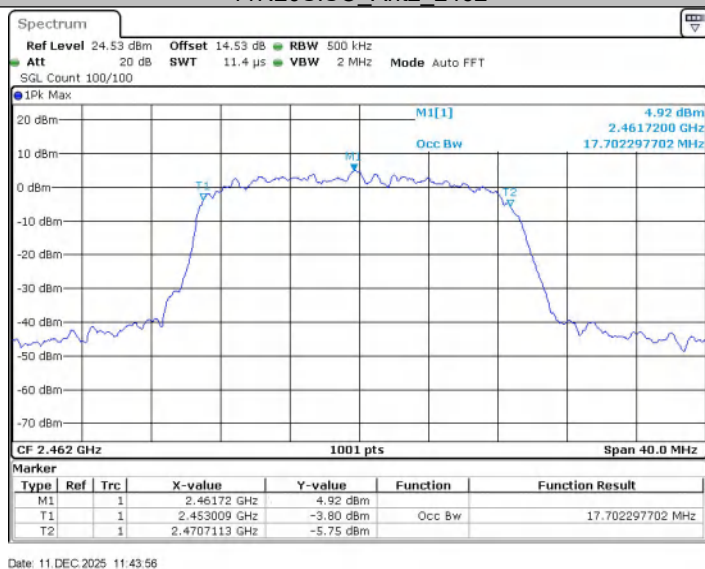
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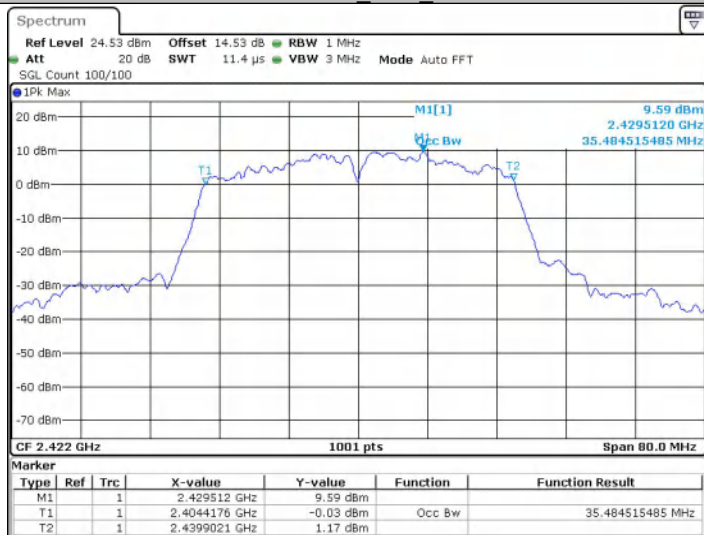
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462

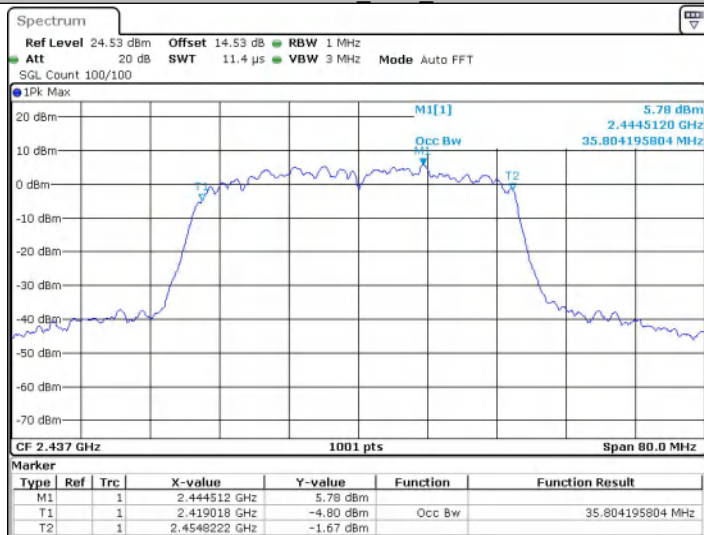


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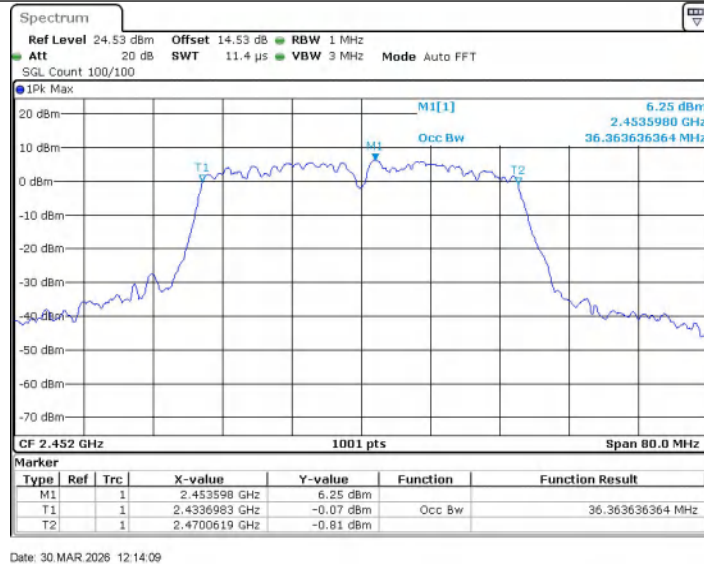
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11N40SISO_Ant2_2437

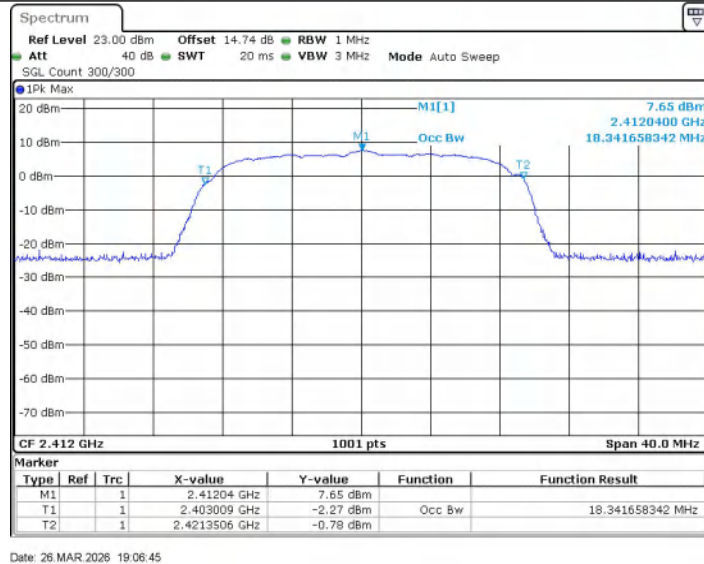


Date: 11.DEC.2025 11:50:16

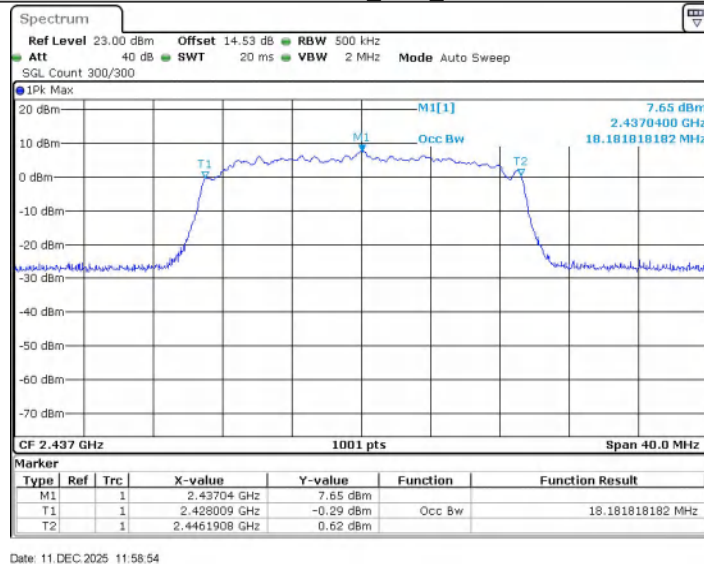
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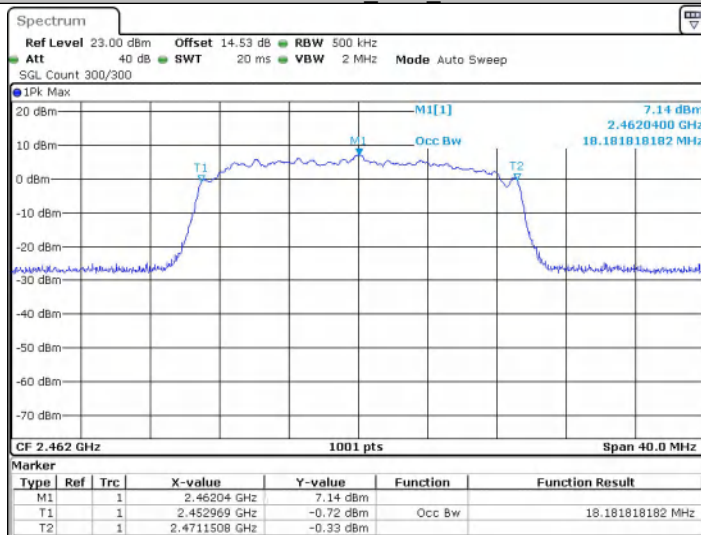
11AX20SISO_Ant2_2412



11AX20SISO_Ant2_2437

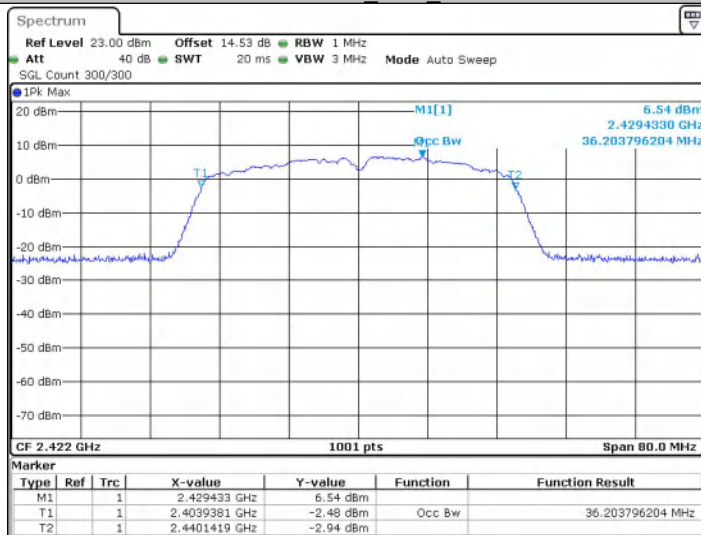


11AX20SISO_Ant2_2462



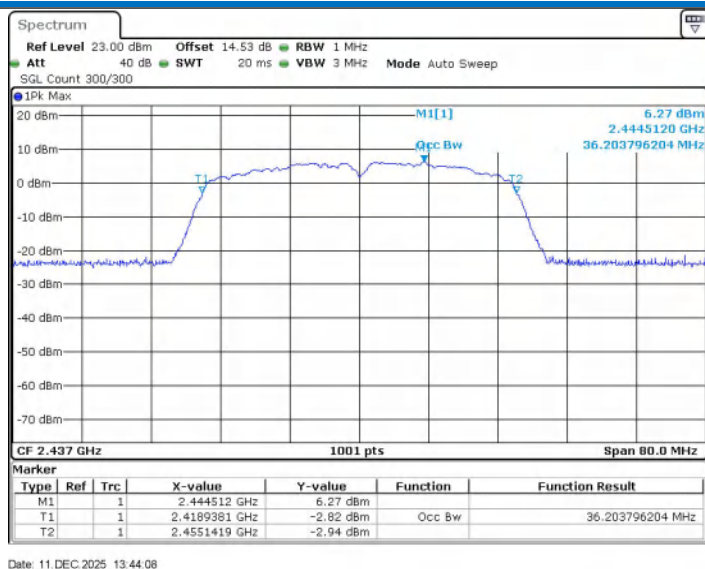
Date: 11 DEC 2025 12:03:13

11AX40SISO_Ant2_2422

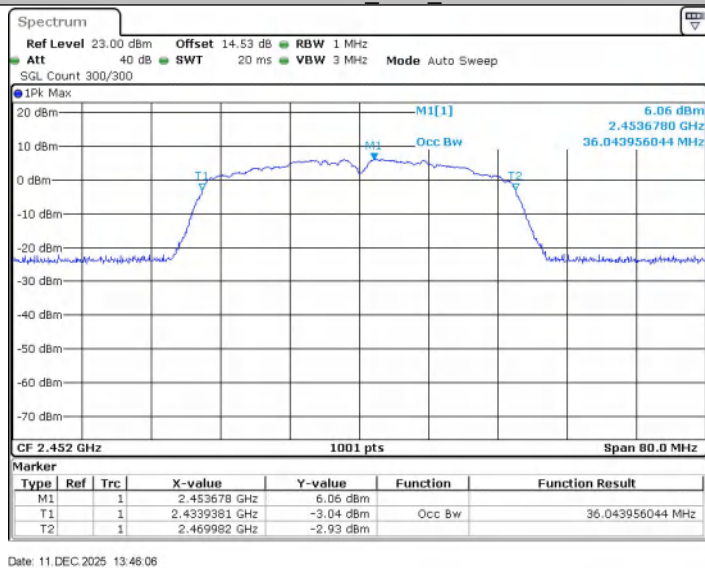


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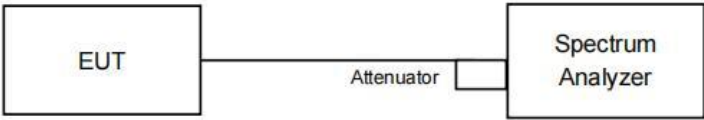
11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452



5.5 6dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

Test Result

ANT1:

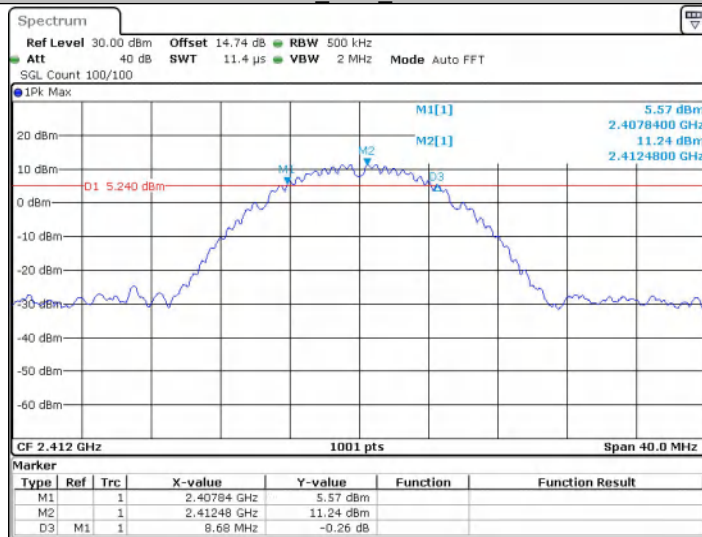
TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	8.68	2407.84	2416.52	0.5	PASS
	2437	8.64	2432.44	2441.08	0.5	PASS
	2462	8.28	2457.84	2466.12	0.5	PASS
11G	2412	16.24	2403.92	2420.16	0.5	PASS
	2437	16.08	2429.04	2445.12	0.5	PASS
	2462	16.20	2453.92	2470.12	0.5	PASS
11N20SISO	2412	17.48	2403.40	2420.88	0.5	PASS
	2437	16.76	2428.68	2445.44	0.5	PASS
	2462	17.04	2453.56	2470.60	0.5	PASS
11N40SISO	2422	35.52	2404.32	2439.84	0.5	PASS
	2437	36.00	2424.04	2460.04	0.5	PASS
	2452	35.92	2434.16	2470.08	0.5	PASS
11AX20SISO	2412	15.72	2404.40	2420.12	0.5	PASS
	2437	15.16	2429.40	2444.56	0.5	PASS
	2462	15.92	2454.44	2470.36	0.5	PASS
11AX40SISO	2422	35.12	2404.40	2439.52	0.5	PASS
	2437	35.12	2419.40	2454.52	0.5	PASS
	2452	35.12	2434.40	2469.52	0.5	PASS

ANT2:

TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	10.32	2406.84	2417.16	0.5	PASS
	2437	12.28	2430.84	2443.12	0.5	PASS
	2462	11.28	2455.88	2467.16	0.5	PASS
11G	2412	16.28	2403.84	2420.12	0.5	PASS
	2437	15.88	2429.20	2445.08	0.5	PASS
	2462	16.00	2453.96	2469.96	0.5	PASS
11N20SISO	2412	15.04	2404.60	2419.64	0.5	PASS
	2437	15.28	2429.20	2444.48	0.5	PASS
	2462	15.16	2454.24	2469.40	0.5	PASS
11N40SISO	2422	34.80	2404.88	2439.68	0.5	PASS
	2437	33.92	2420.44	2454.36	0.5	PASS
	2452	33.20	2434.72	2467.92	0.5	PASS
11AX20SISO	2412	15.16	2404.40	2419.56	0.5	PASS
	2437	15.16	2429.40	2444.56	0.5	PASS
	2462	15.20	2454.36	2469.56	0.5	PASS
11AX40SISO	2422	35.04	2404.48	2439.52	0.5	PASS
	2437	35.12	2419.48	2454.60	0.5	PASS
	2452	35.04	2434.48	2469.52	0.5	PASS

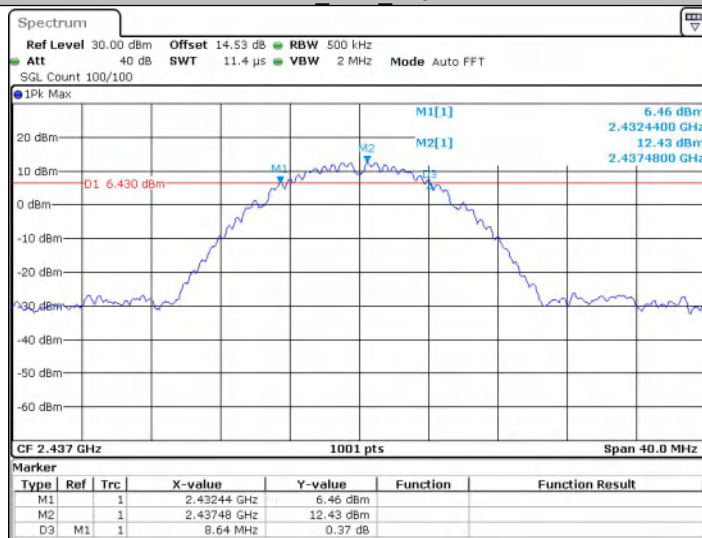
Test Graphs

11B_Ant1_2412



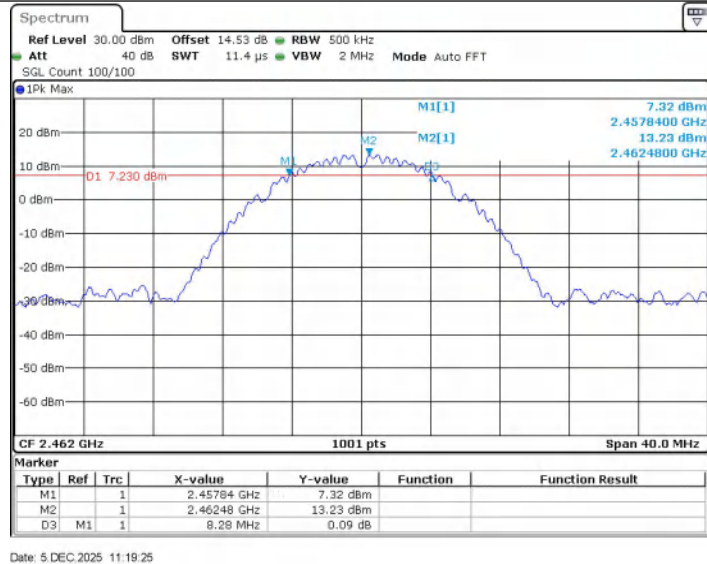
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11B_Ant1_2437

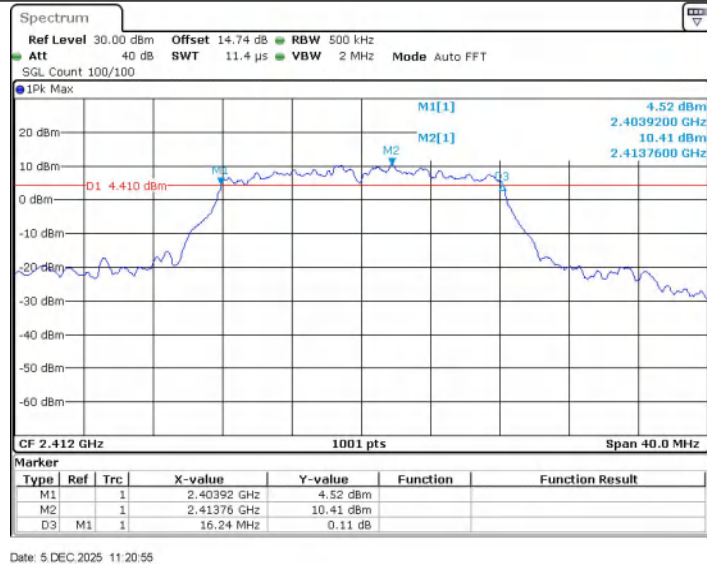


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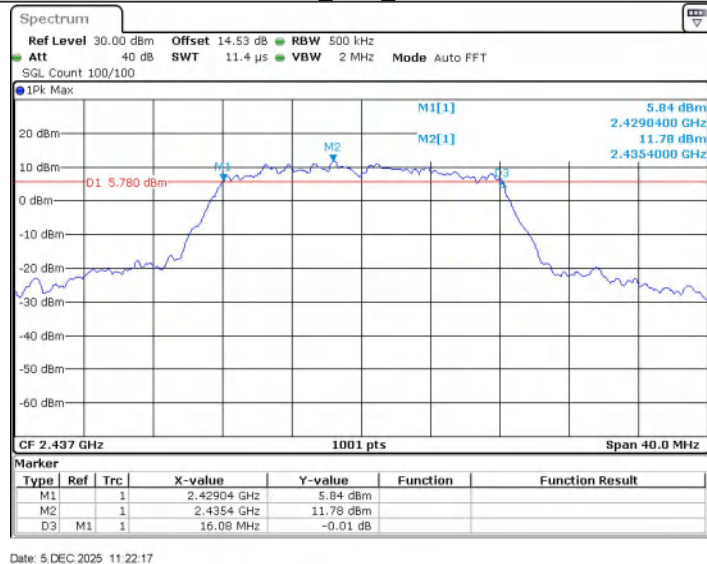
11B_Ant1_2462



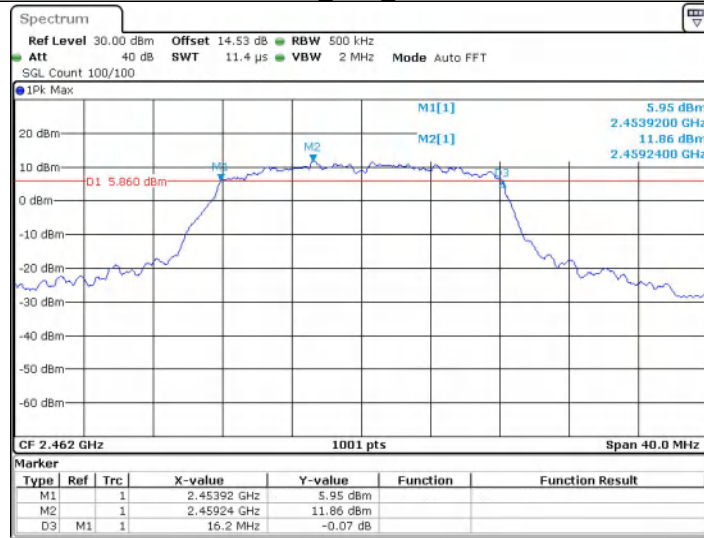
11G_Ant1_2412



11G_Ant1_2437

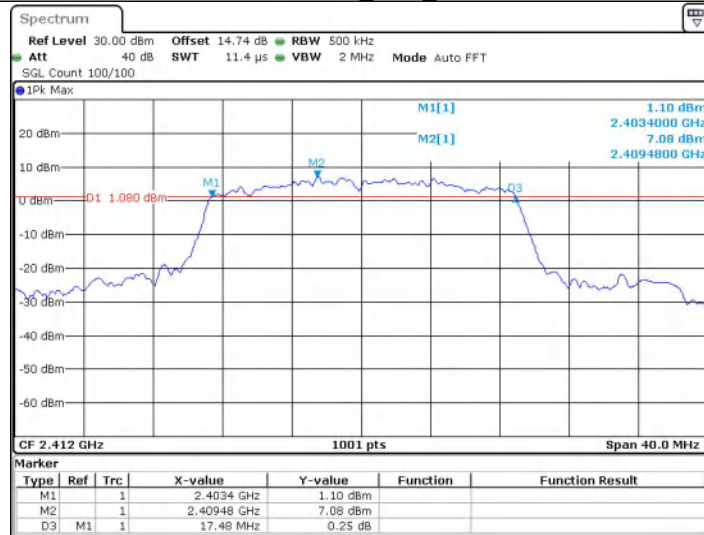


11G_Ant1_2462



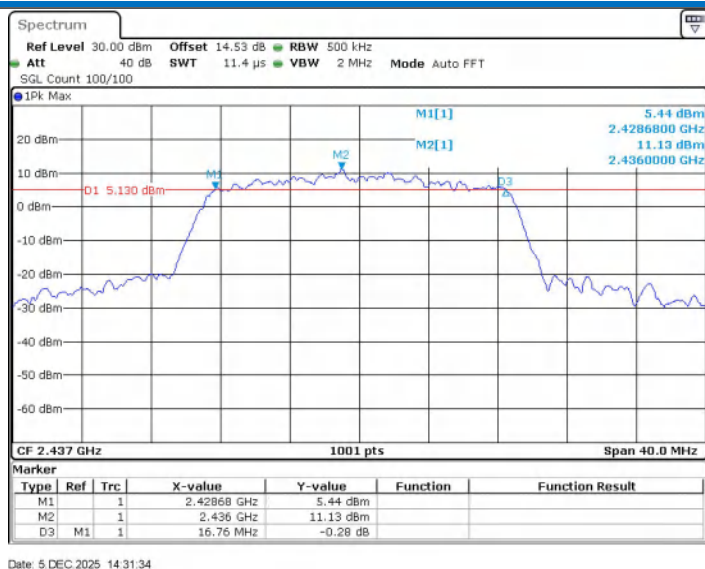
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11N20SISO_Ant1_2412

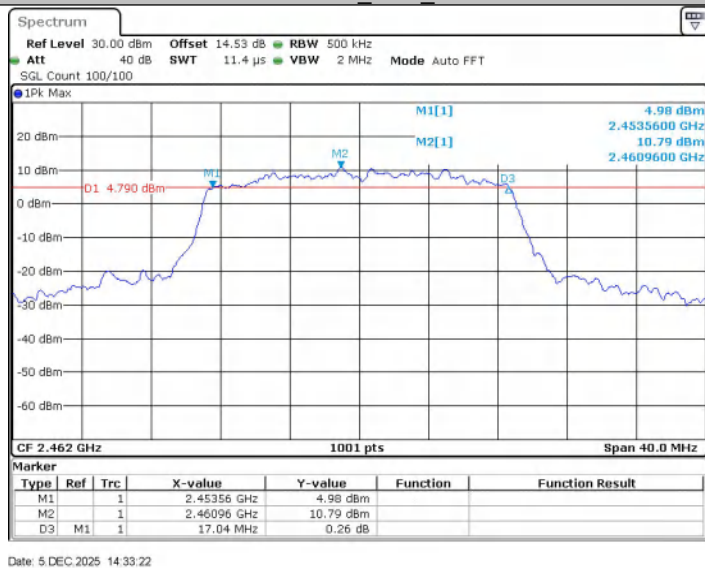


Date: 5 DEC 2025 14:15:16

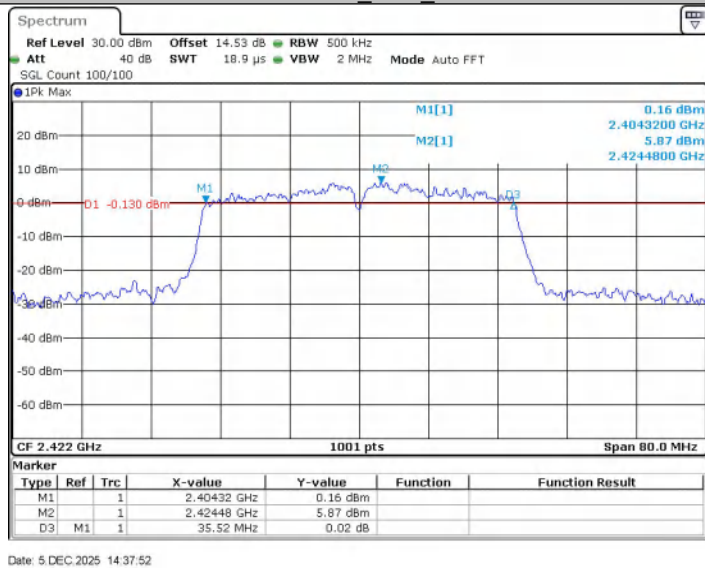
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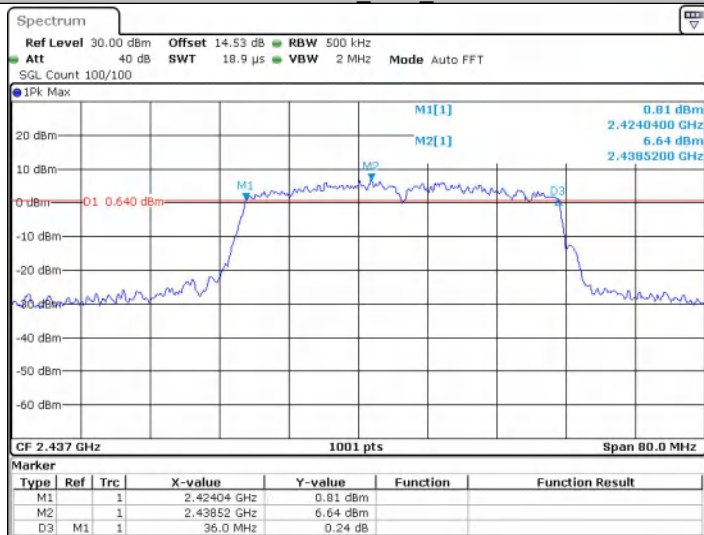
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

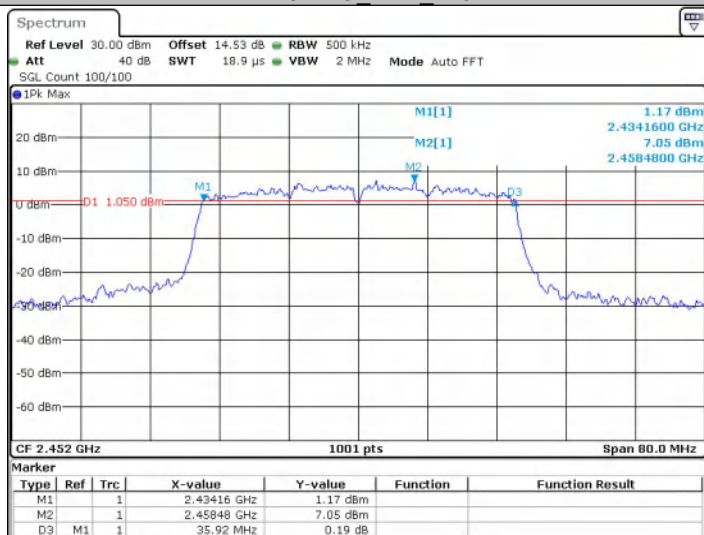


11N40SISO_Ant1_2437



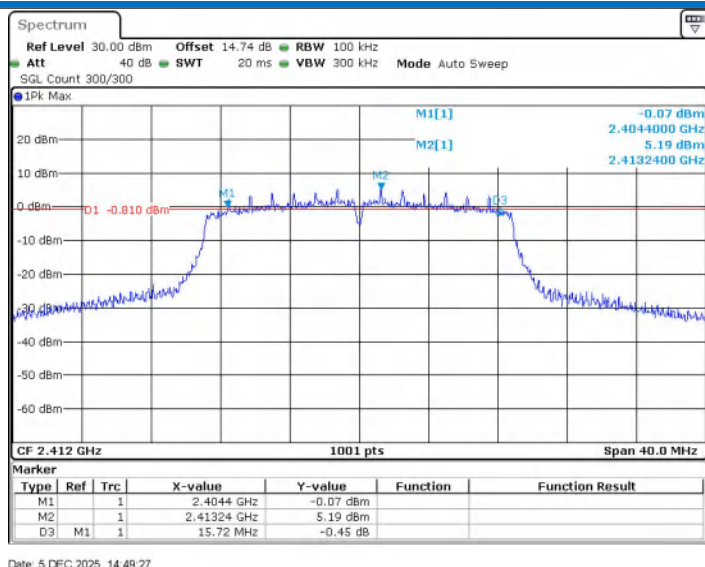
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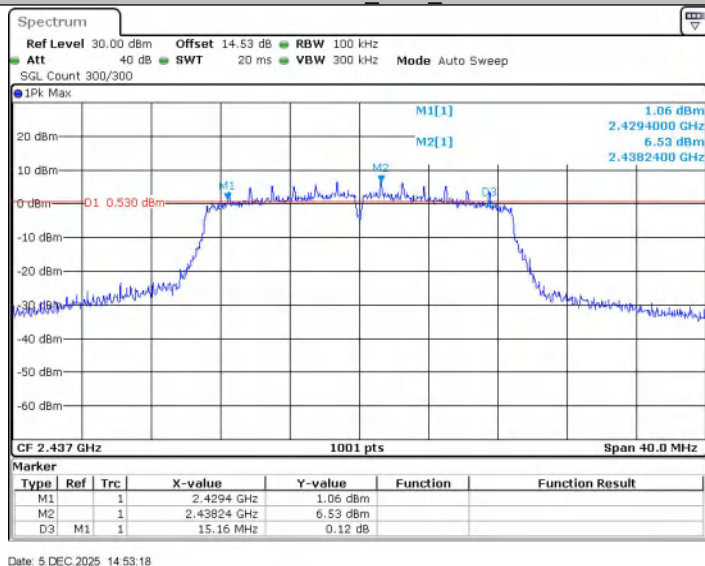


Date: 5 DEC 2025 14:42:32

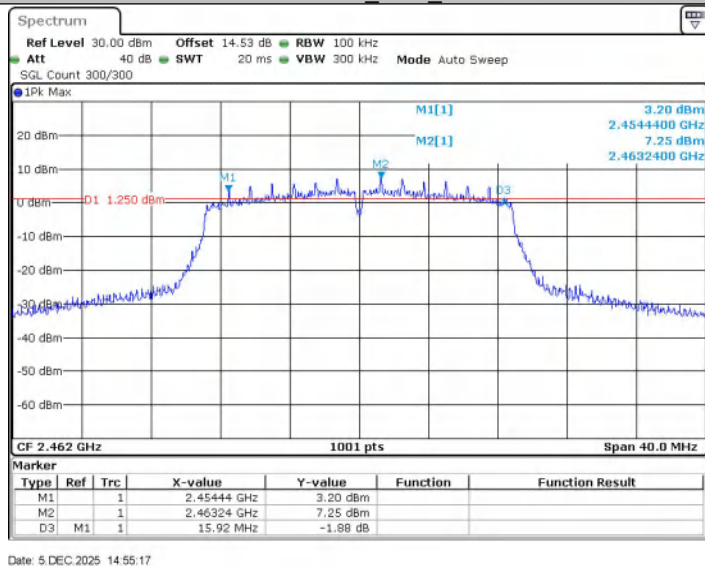
11AX20SISO_Ant1_2412



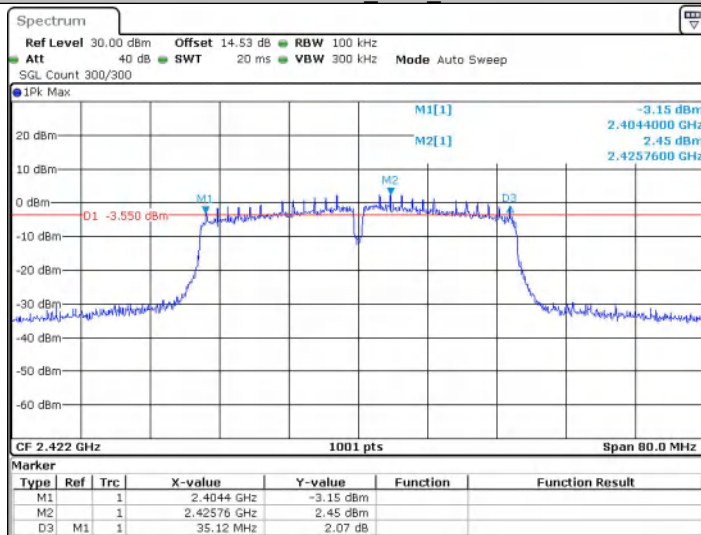
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

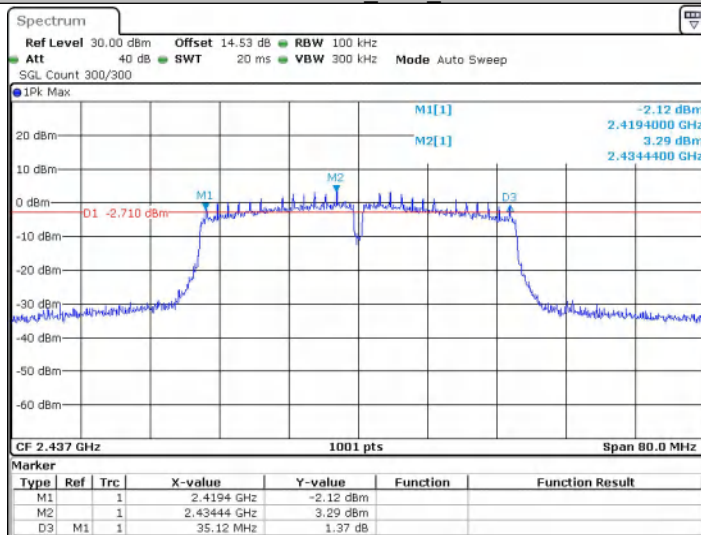


11AX40SISO_Ant1_2422



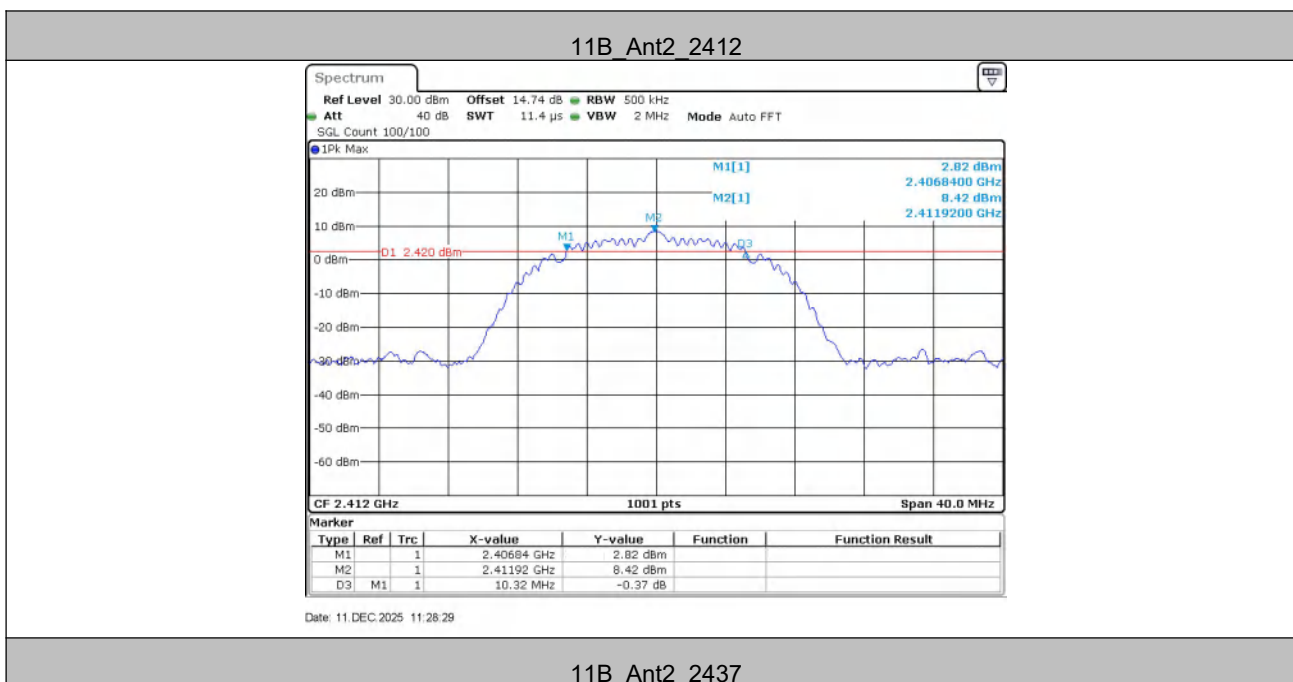
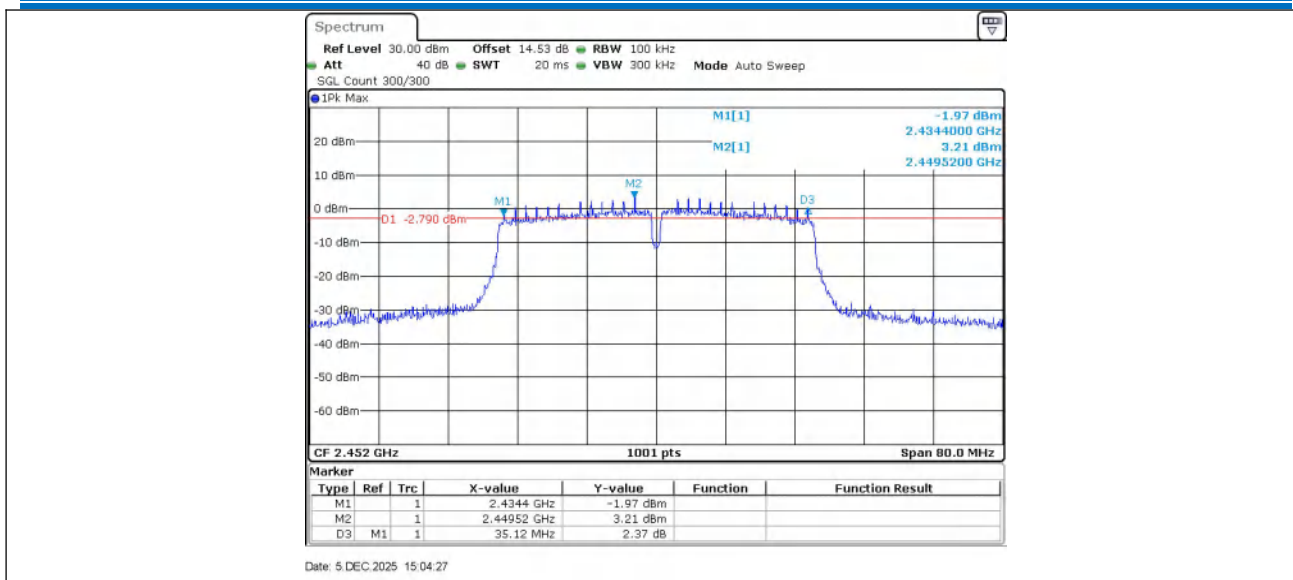
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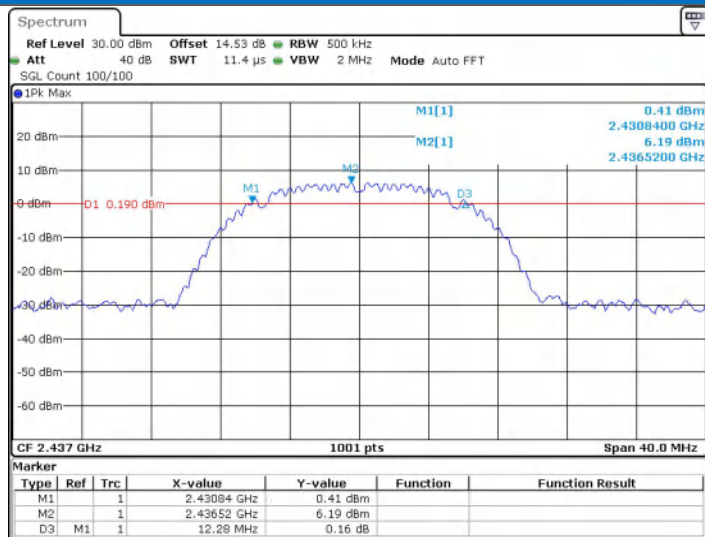
11AX40SISO_Ant1_2437



Date: 5 DEC 2025 15:00:01

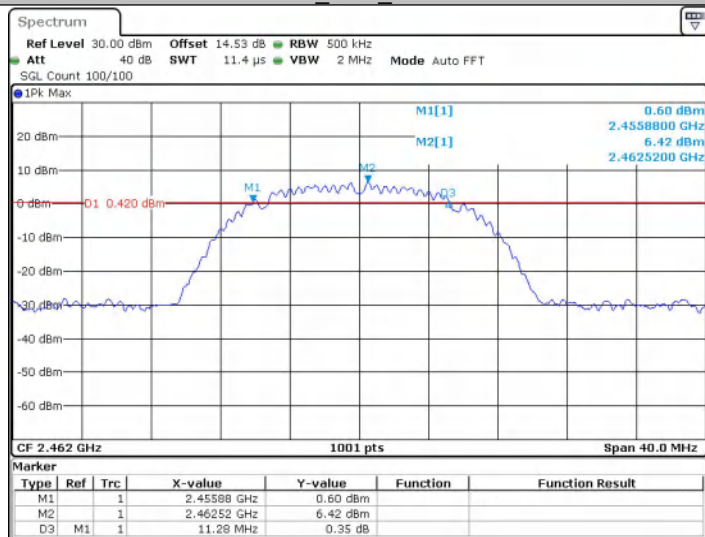
11AX40SISO_Ant1_2452





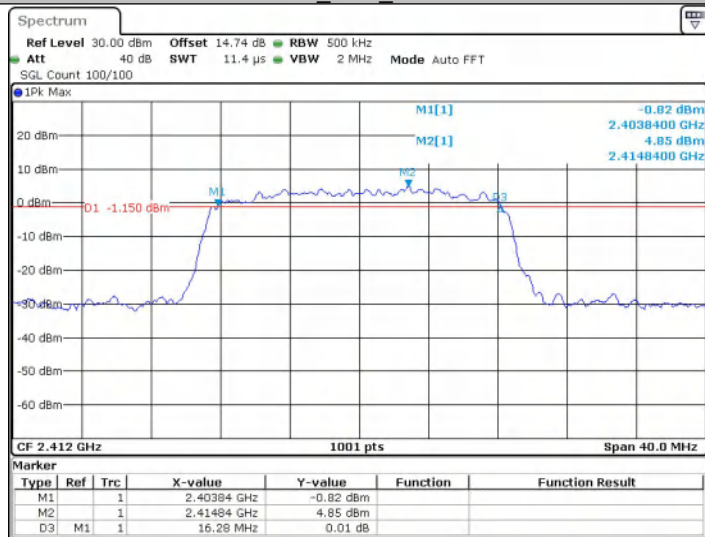
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11B_Ant2_2462



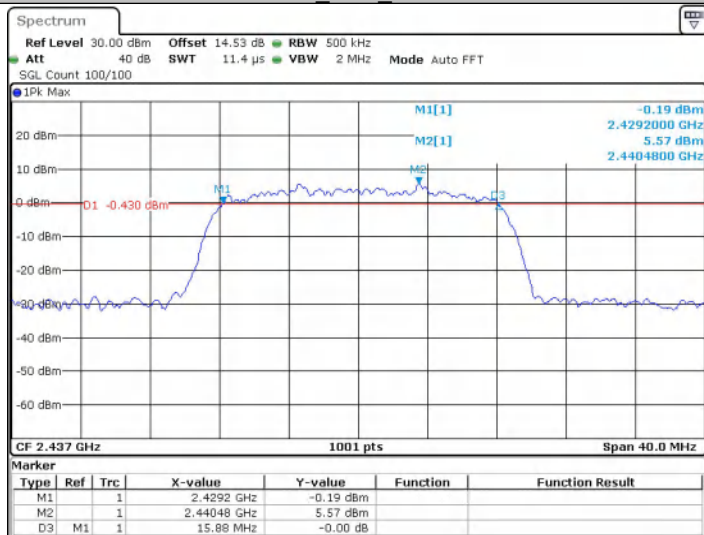
Date: 11 DEC 2025 11:31:43

11G_Ant2_2412



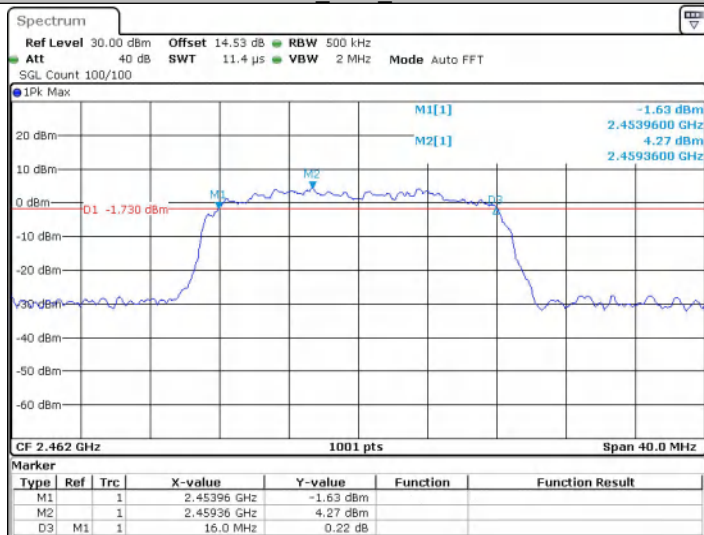
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11G_Ant2_2437



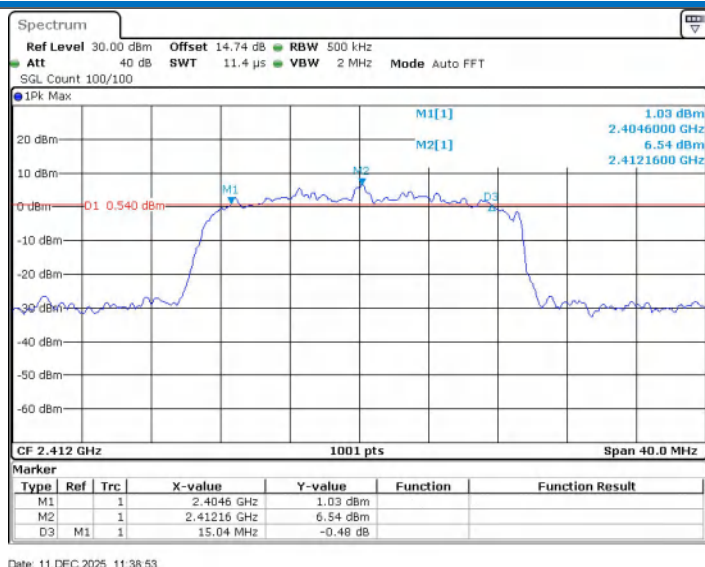
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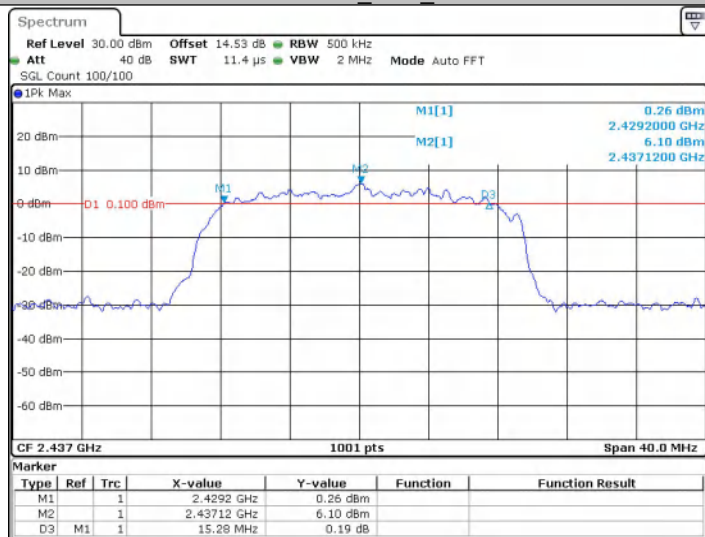
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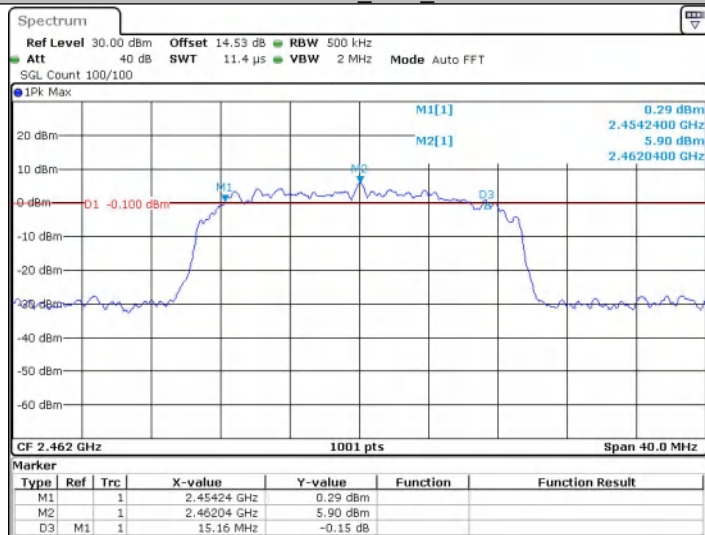
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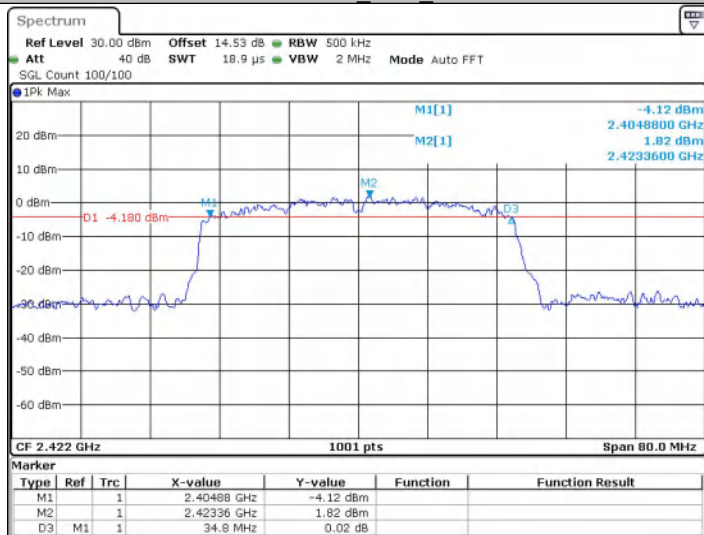
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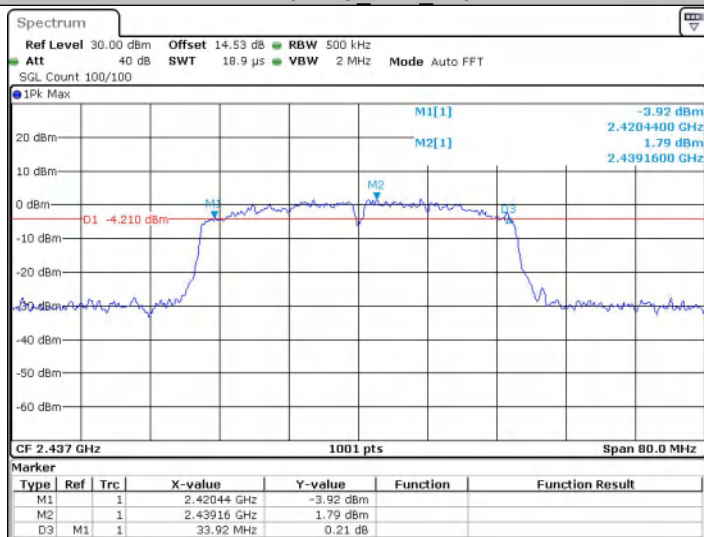
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11N40SISO_Ant2_2422



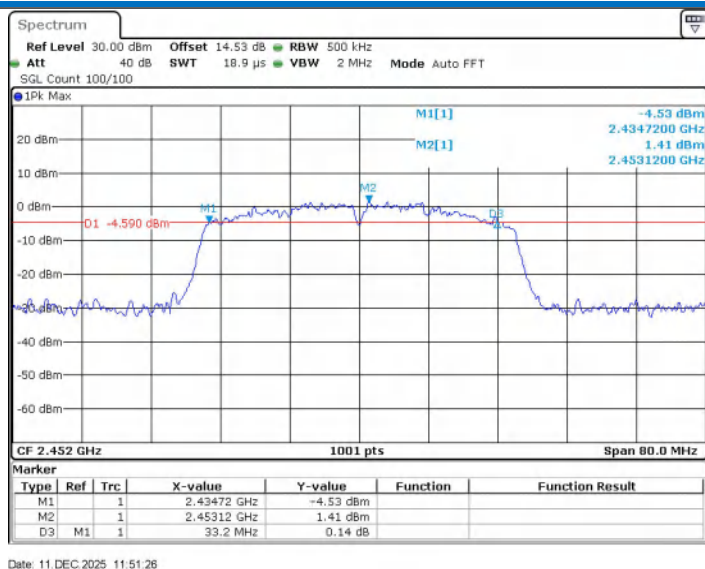
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11N40SISO_Ant2_2437

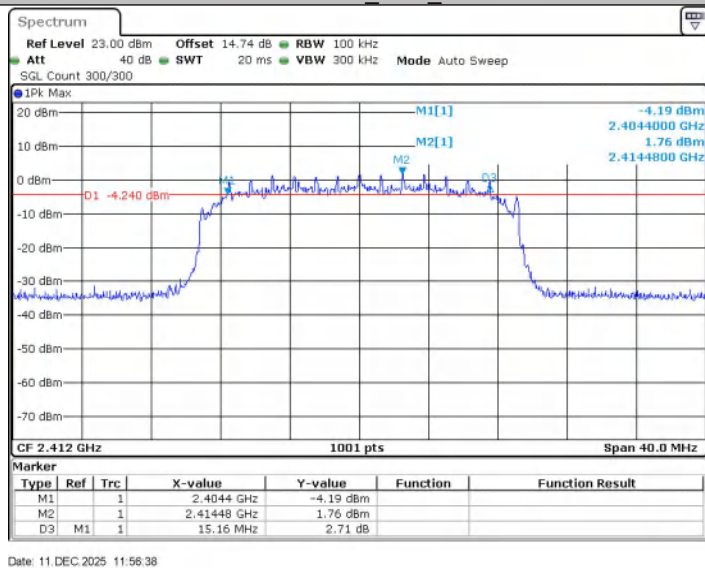


Date: 11.DEC.2025 11:50:12

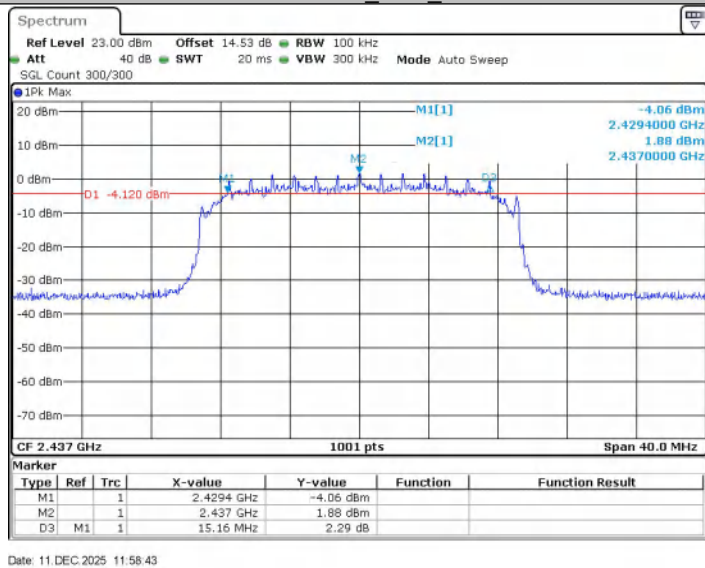
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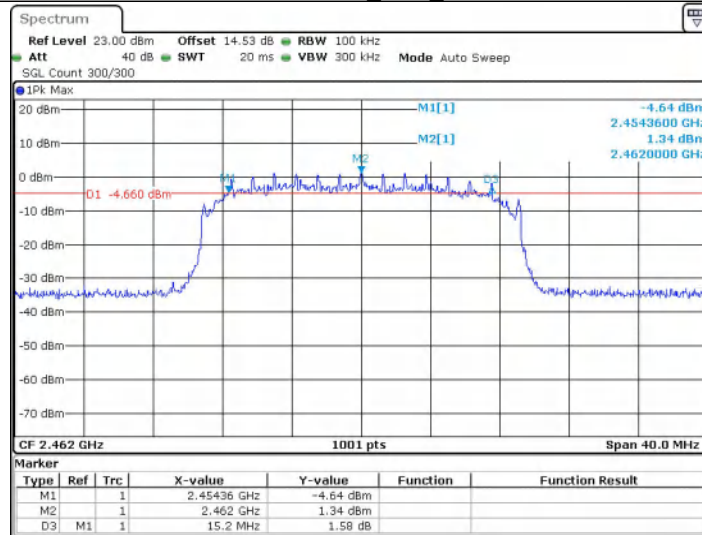
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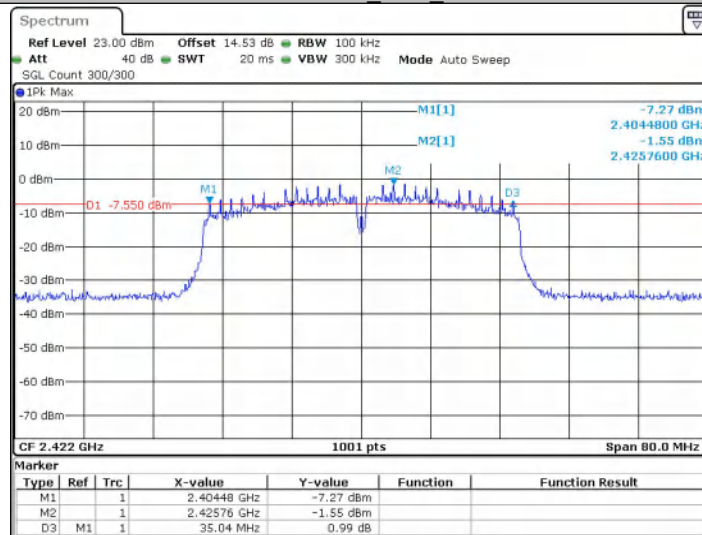
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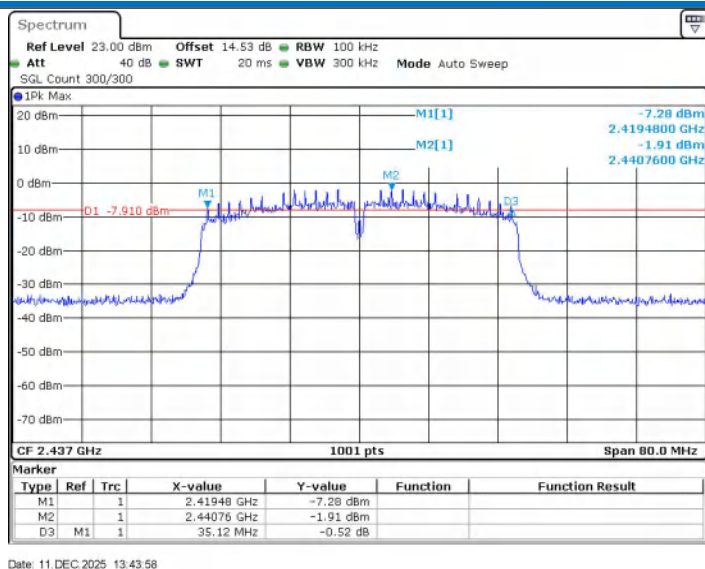
11AX20SISO_Ant2_2462



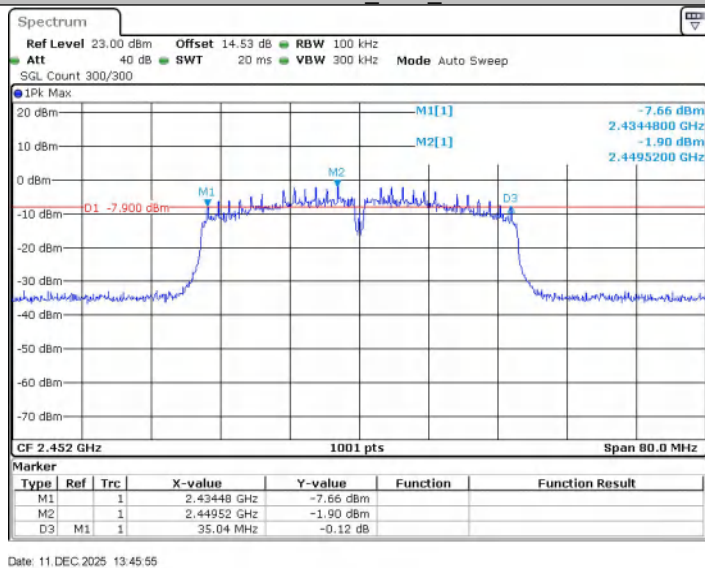
11AX40SISO_Ant2_2422



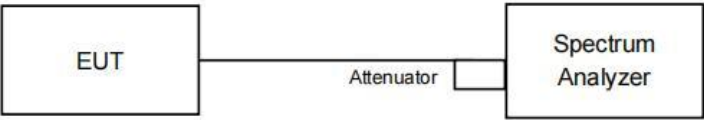
11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452



5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10: 2020
Test Setup:	 $\text{Offset} = \text{cable loss} + \text{attenuation factor}$
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass

Test Result

ANT1:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-12.00	≤8.00	PASS
	2437	-10.48	≤8.00	PASS
	2462	-9.65	≤8.00	PASS
11G	2412	-16.32	≤8.00	PASS
	2437	-14.57	≤8.00	PASS
	2462	-14.01	≤8.00	PASS
11N20SISO	2412	-18.87	≤8.00	PASS
	2437	-15.84	≤8.00	PASS
	2462	-15.42	≤8.00	PASS
11N40SISO	2422	-19.07	≤8.00	PASS
	2437	-17.70	≤8.00	PASS
	2452	-17.82	≤8.00	PASS
11AX20SISO	2412	-17.62	≤8.00	PASS
	2437	-16.30	≤8.00	PASS
	2462	-15.46	≤8.00	PASS
11AX40SISO	2422	-18.85	≤8.00	PASS
	2437	-17.67	≤8.00	PASS
	2452	-17.89	≤8.00	PASS

ANT2:

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-8.94	≤8.00	PASS
	2437	-9.10	≤8.00	PASS
	2462	-10.20	≤8.00	PASS
11G	2412	-14.76	≤8.00	PASS
	2437	-14.04	≤8.00	PASS
	2462	-15.00	≤8.00	PASS
11N20SISO	2412	-15.89	≤8.00	PASS
	2437	-15.69	≤8.00	PASS
	2462	-17.24	≤8.00	PASS
11N40SISO	2422	-14.60	≤8.00	PASS
	2437	-14.82	≤8.00	PASS
	2452	-14.77	≤8.00	PASS
11AX20SISO	2412	-16.51	≤8.00	PASS
	2437	-16.28	≤8.00	PASS
	2462	-16.74	≤8.00	PASS
11AX40SISO	2422	-16.29	≤8.00	PASS
	2437	-16.57	≤8.00	PASS
	2452	-15.54	≤8.00	PASS

ANT1+ANT2:

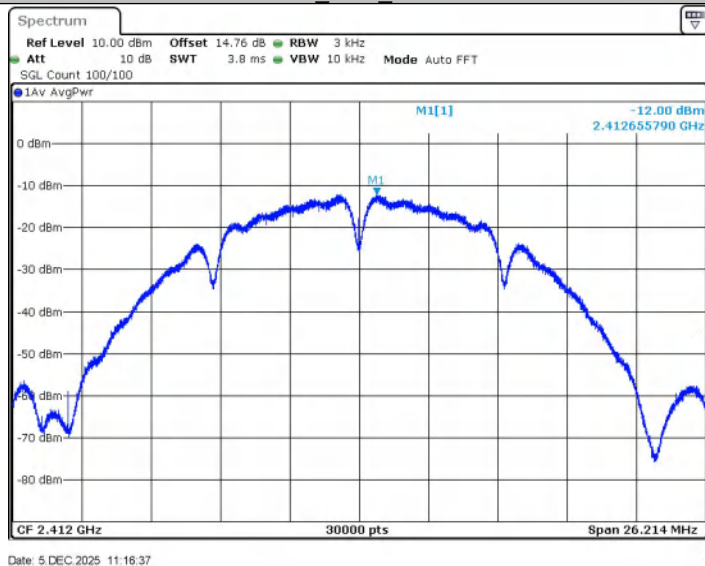
TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20SISO	2412	-14.12	≤8.00	PASS
	2437	-12.75	≤8.00	PASS
	2462	-13.23	≤8.00	PASS
11N40SISO	2422	-13.27	≤8.00	PASS
	2437	-13.02	≤8.00	PASS
	2452	-13.02	≤8.00	PASS
11AX20SISO	2412	-14.02	≤8.00	PASS
	2437	-13.28	≤8.00	PASS
	2462	-13.04	≤8.00	PASS
11AX40SISO	2422	-14.37	≤8.00	PASS
	2437	-14.07	≤8.00	PASS
	2452	-13.55	≤8.00	PASS

Note: Duty cycle correction factor details please see section 4.4.

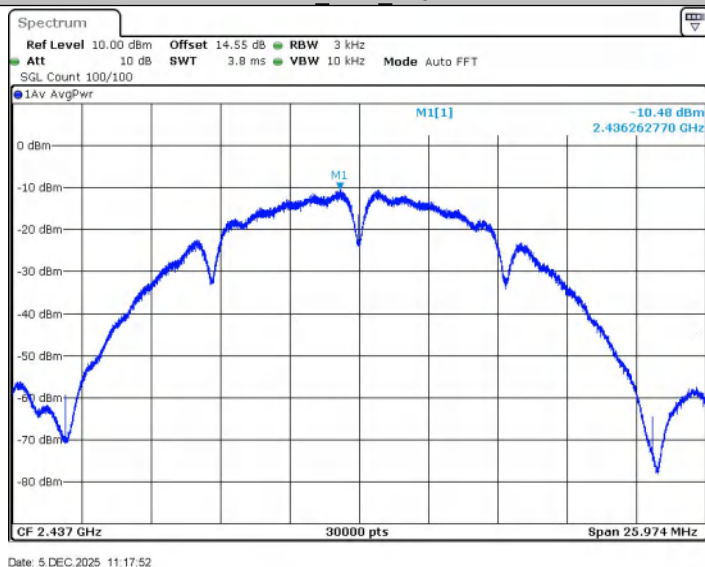
When Duty cycle >98%, D.C.F is not required.

Test Graphs

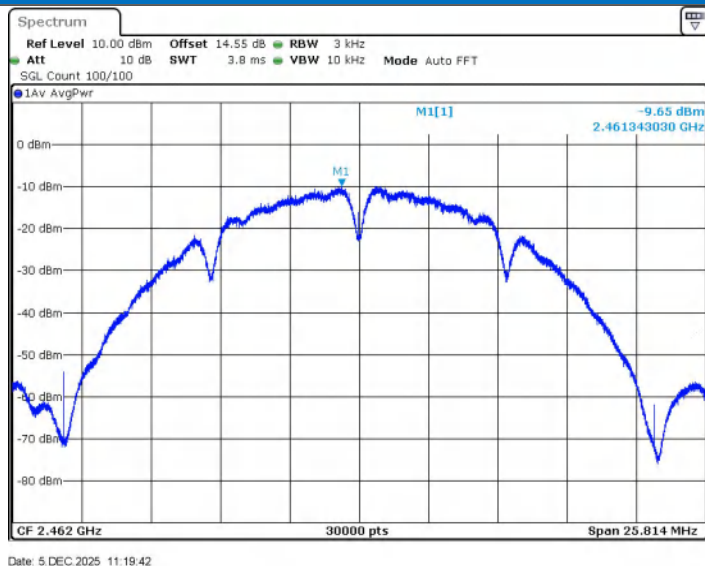
11B_Ant1_2412



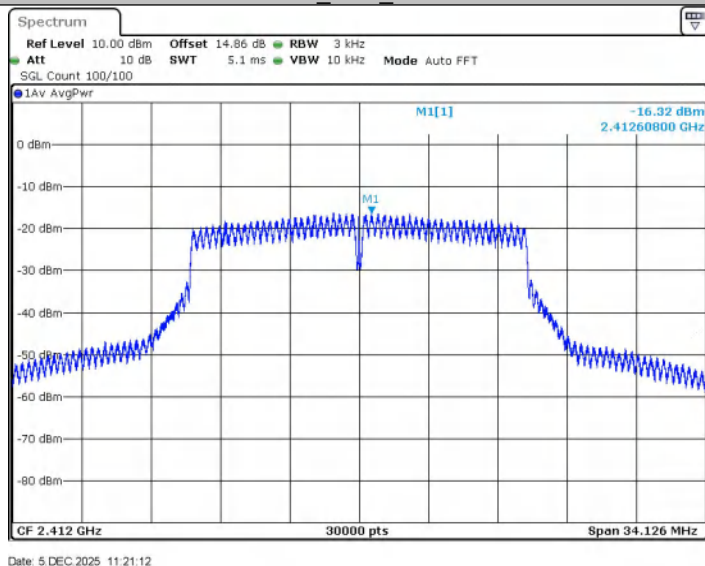
11B_Ant1_2437



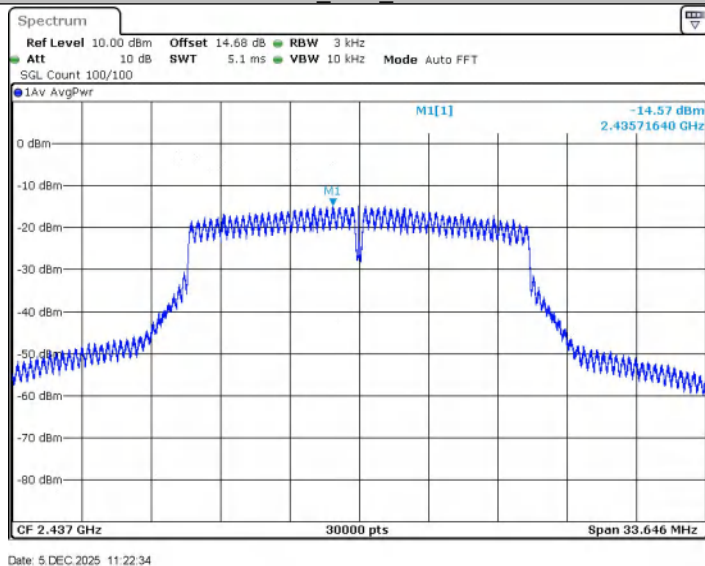
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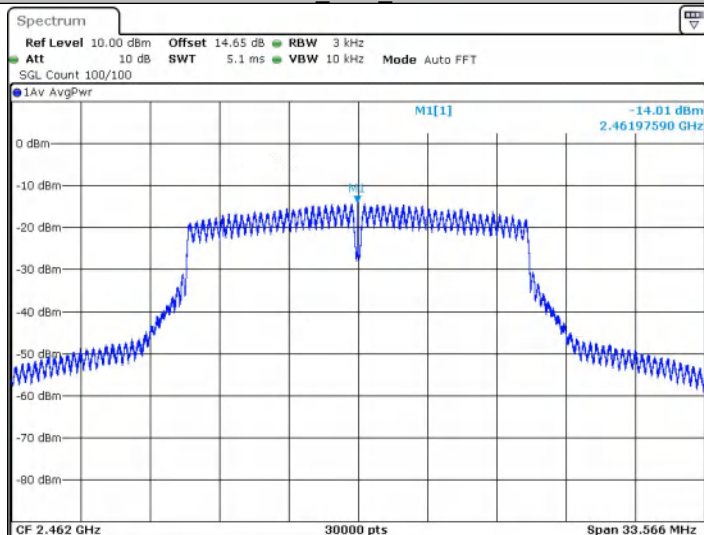
11G_Ant1_2412



11G_Ant1_2437

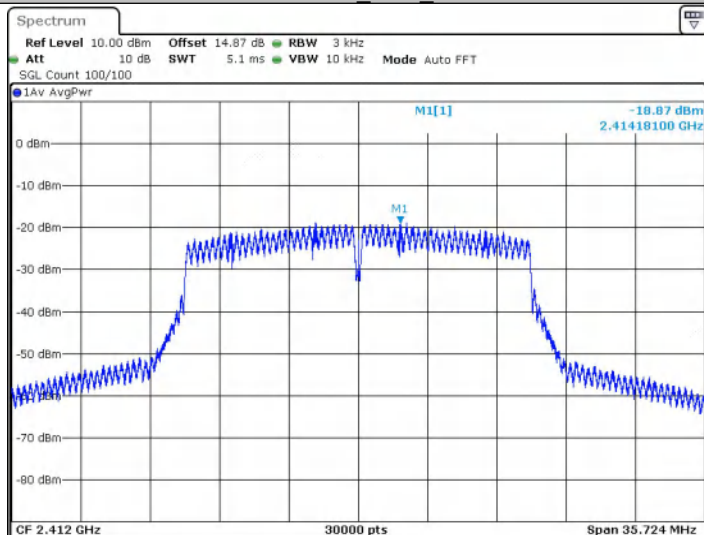


11G_Ant1_2462



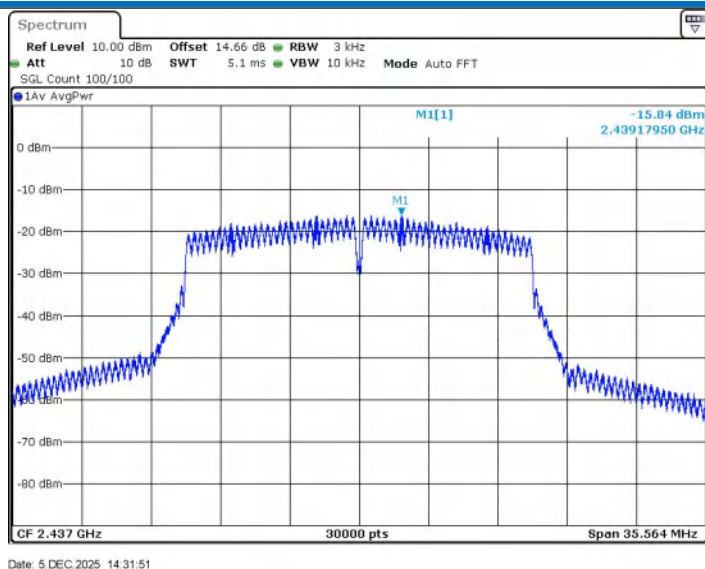
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11N20SISO_Ant1_2412

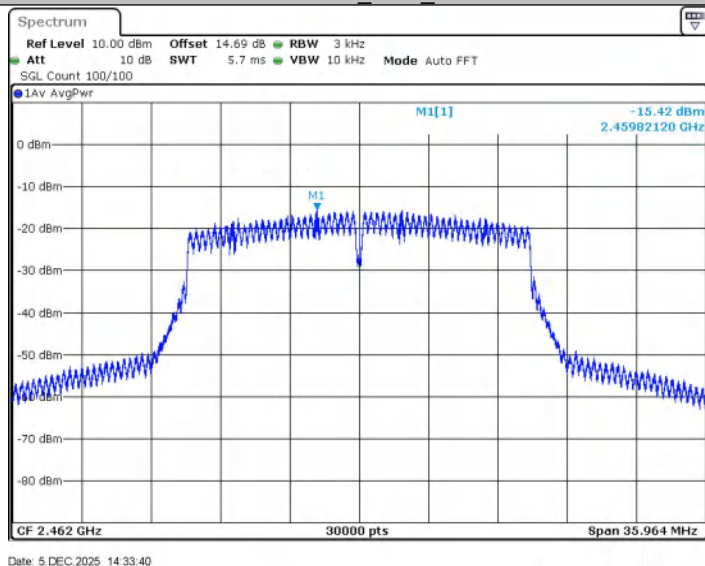


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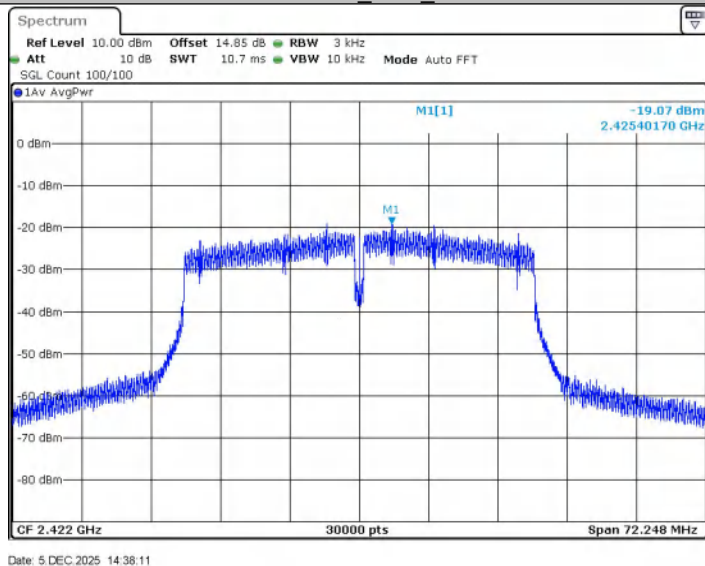
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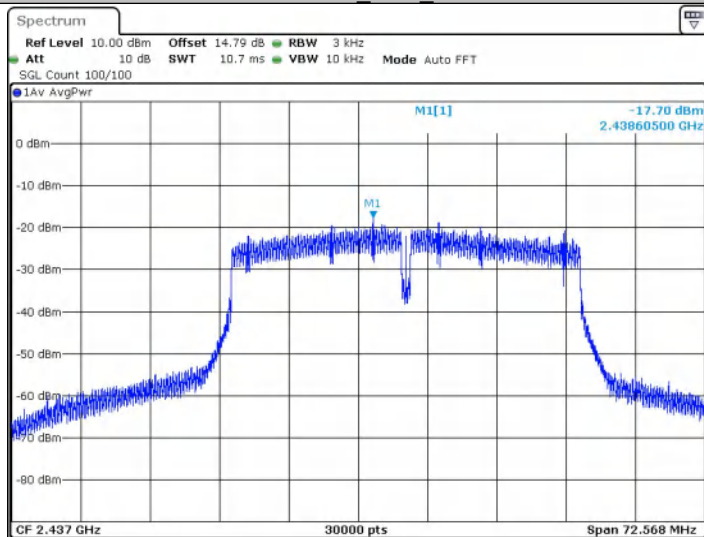
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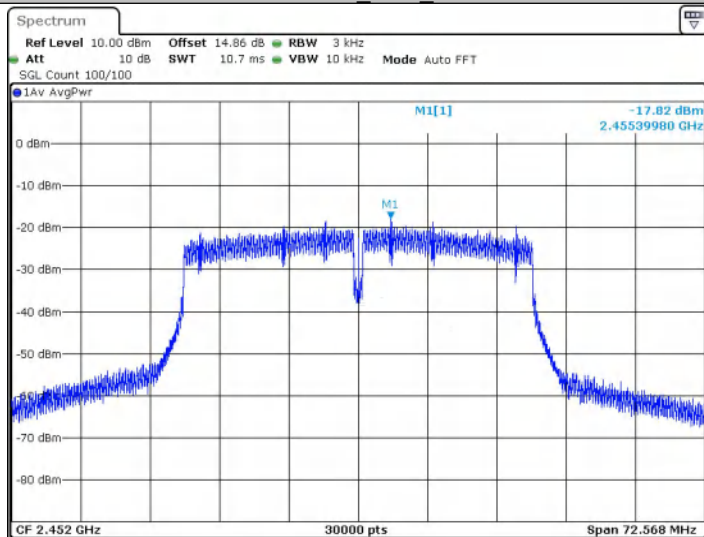


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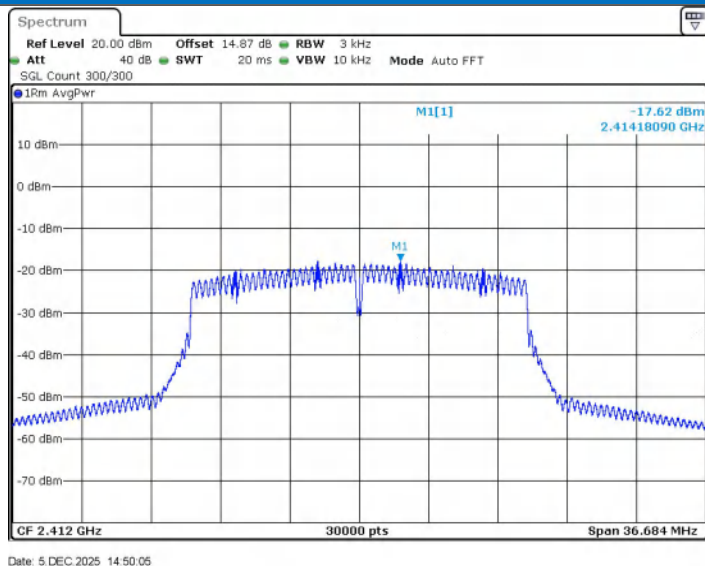
Date: 5 DEC 2025 14:39:27

11N40SISO_Ant1_2452

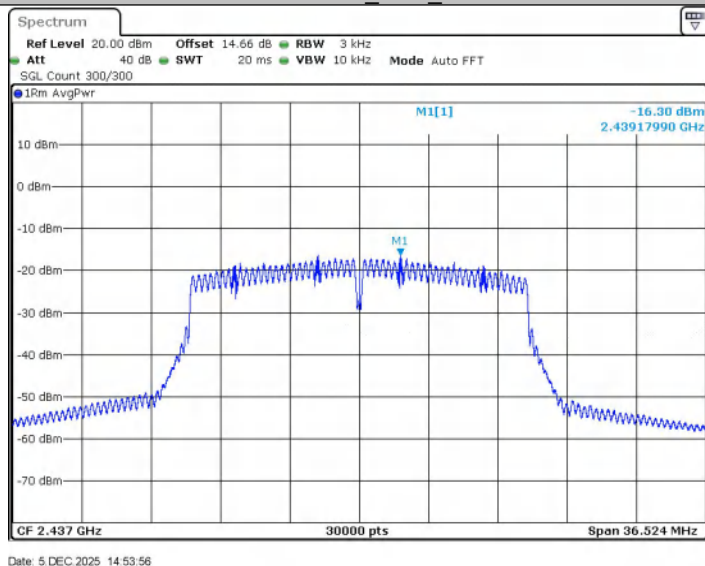


Date: 5 DEC 2025 14:42:51

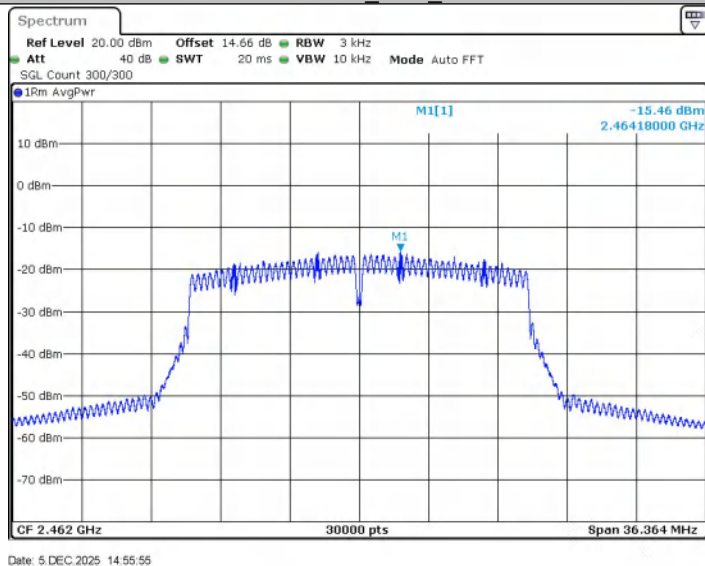
11AX20SISO_Ant1_2412



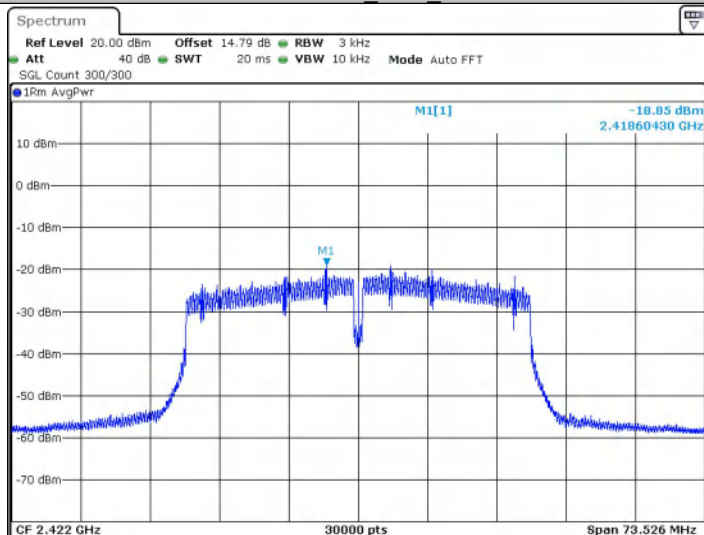
11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

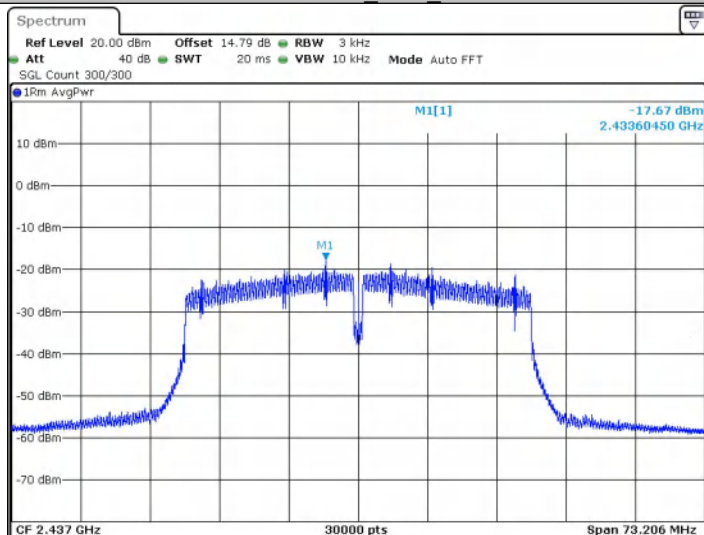


11AX40SISO_Ant1_2422



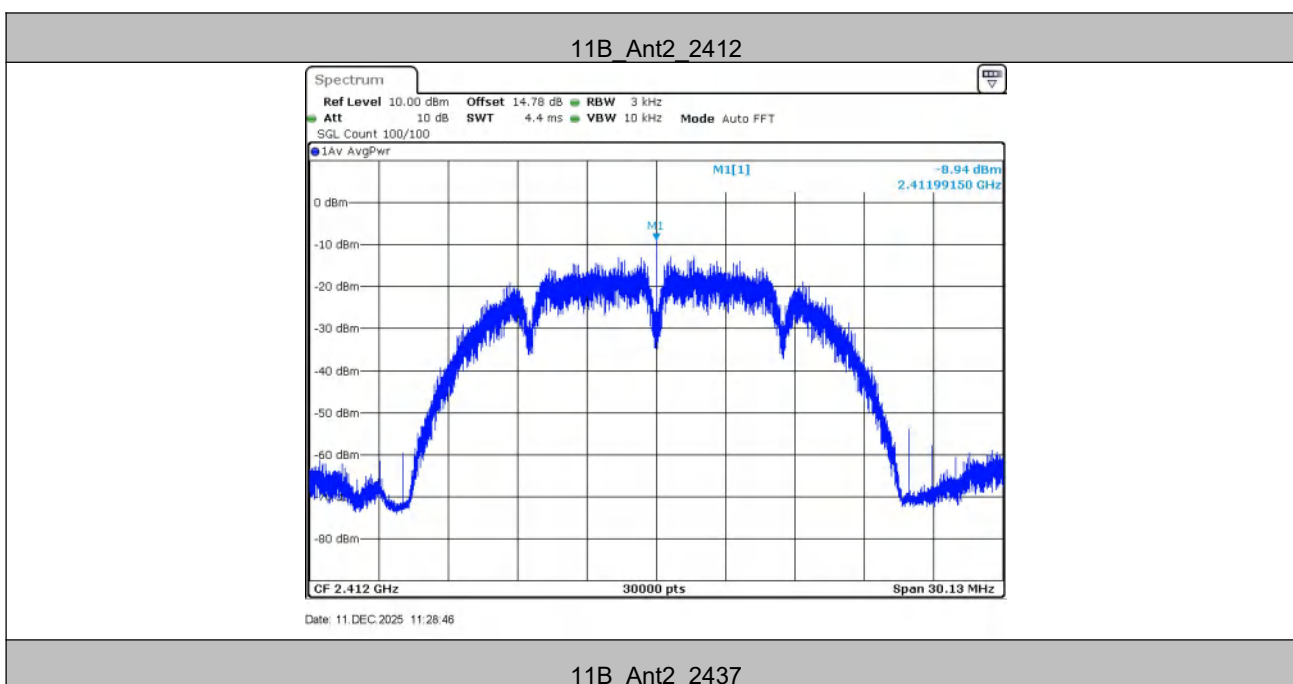
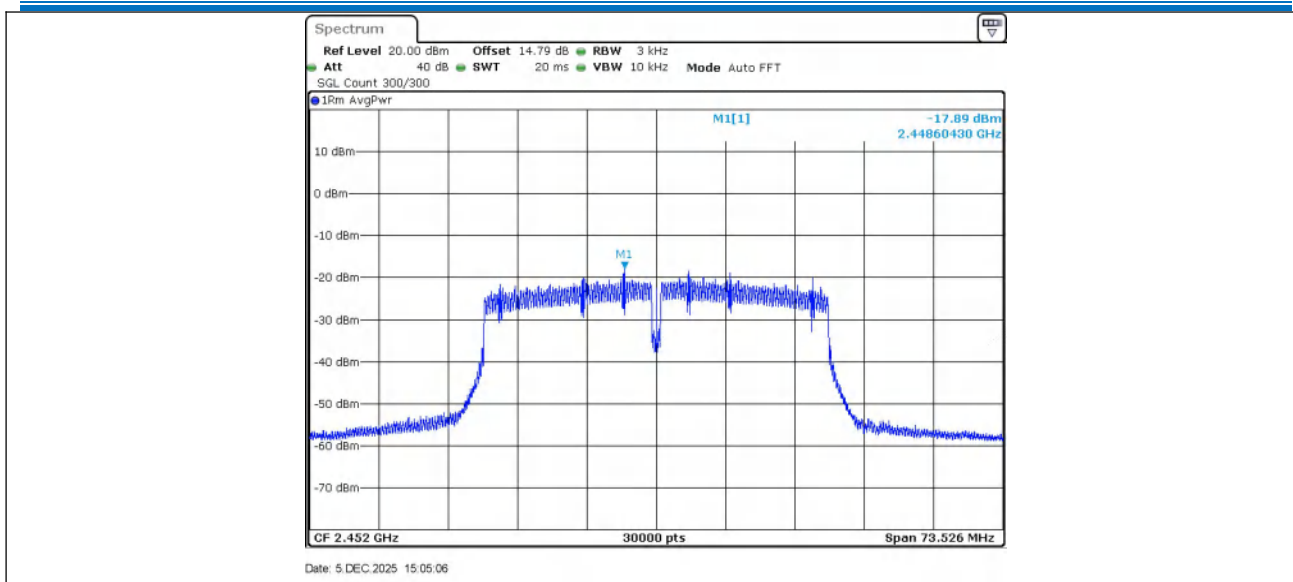
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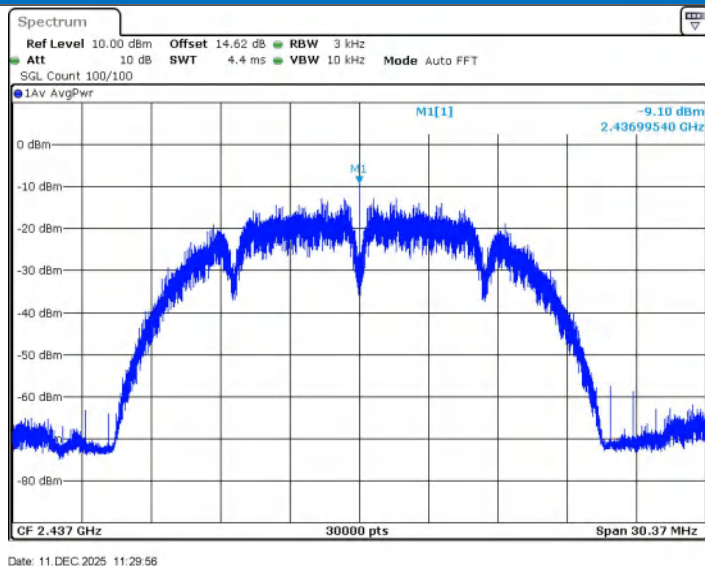
11AX40SISO_Ant1_2437



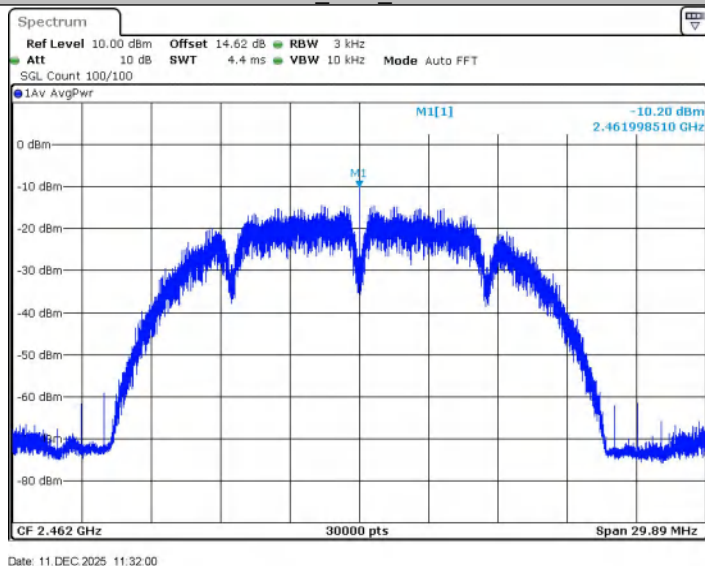
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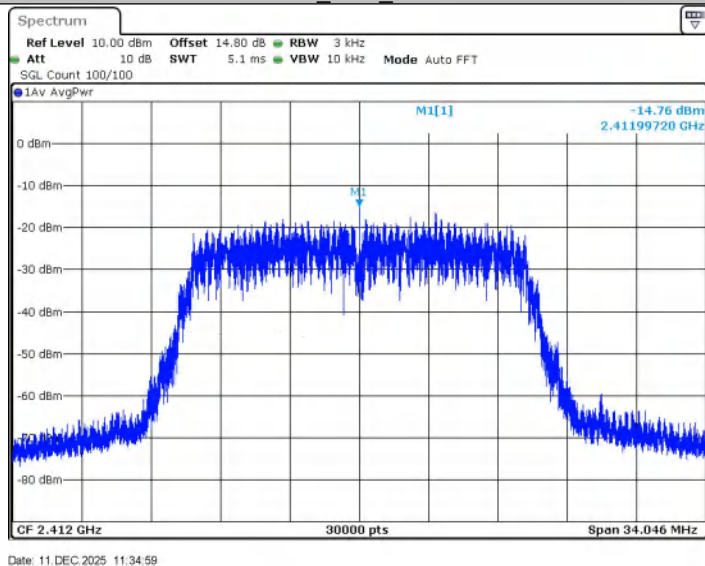




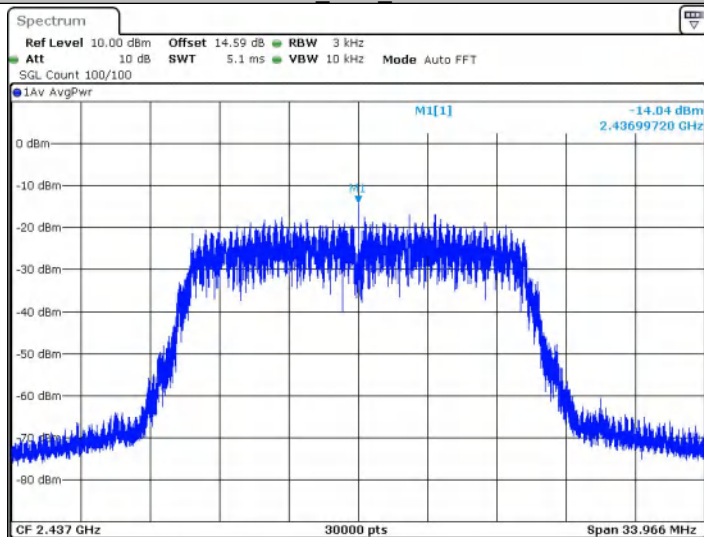
11B_Ant2_2462



11G_Ant2_2412

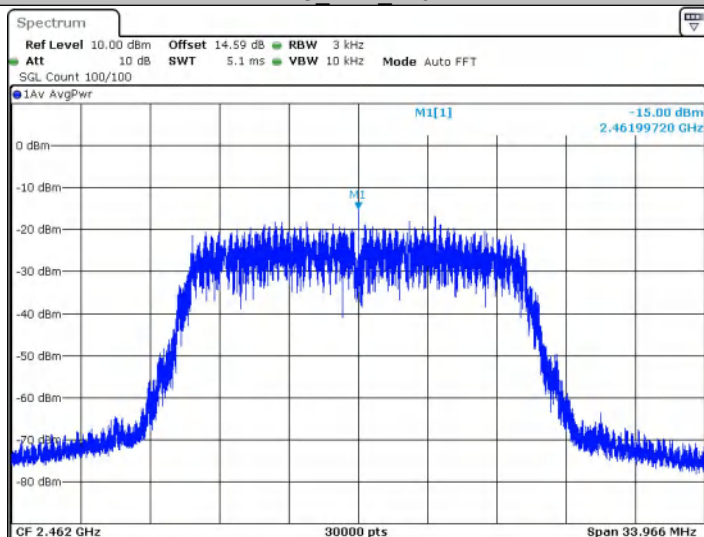


11G_Ant2_2437



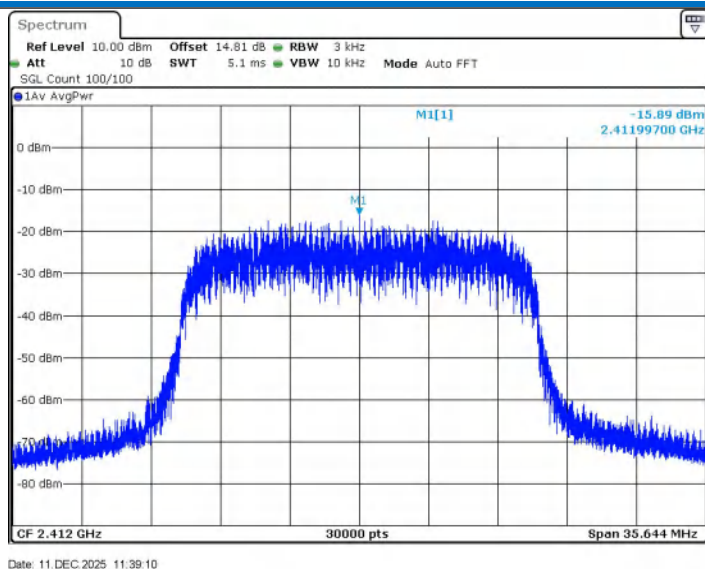
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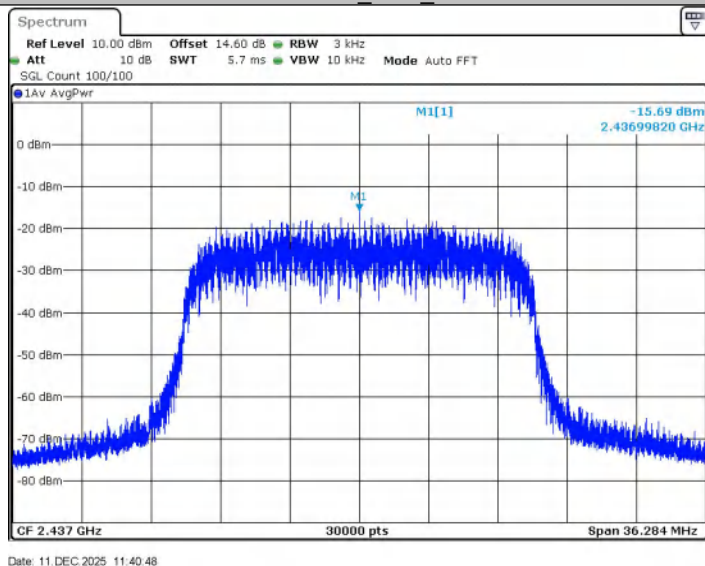


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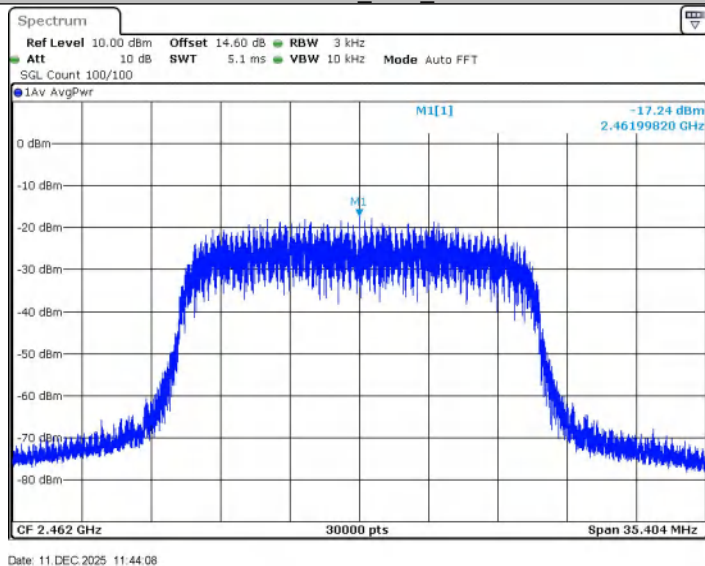
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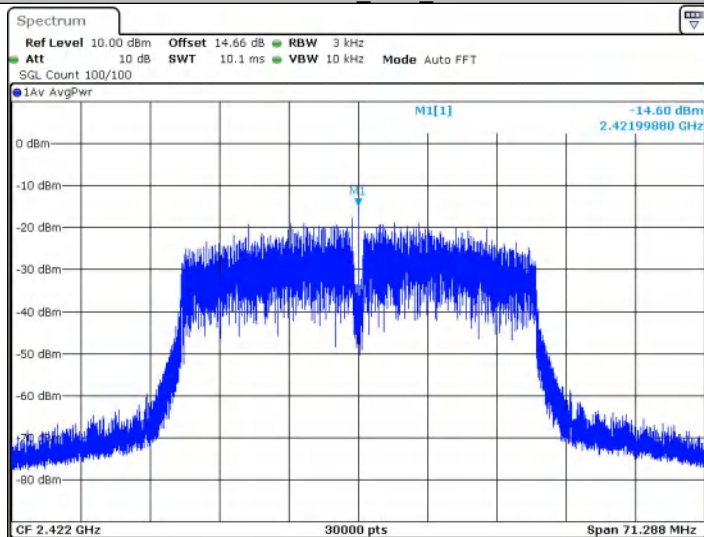
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462

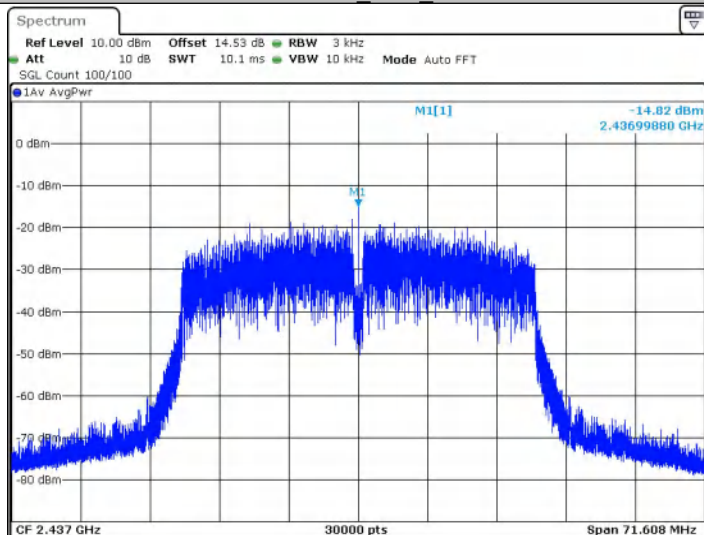


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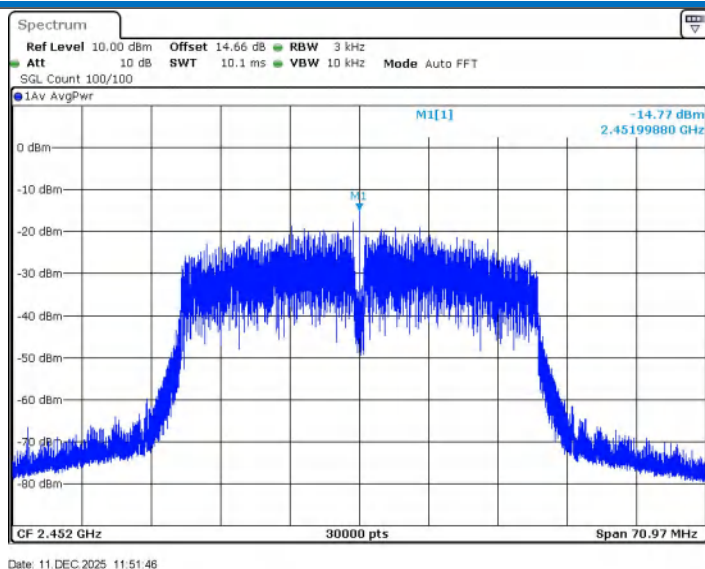
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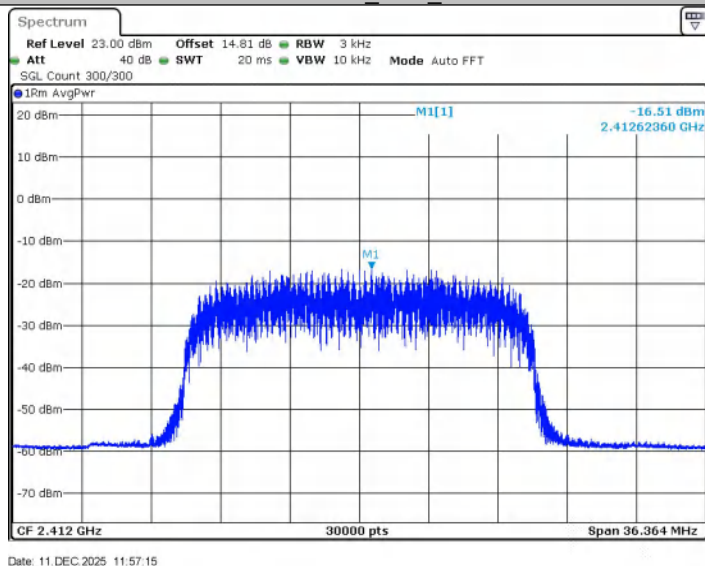


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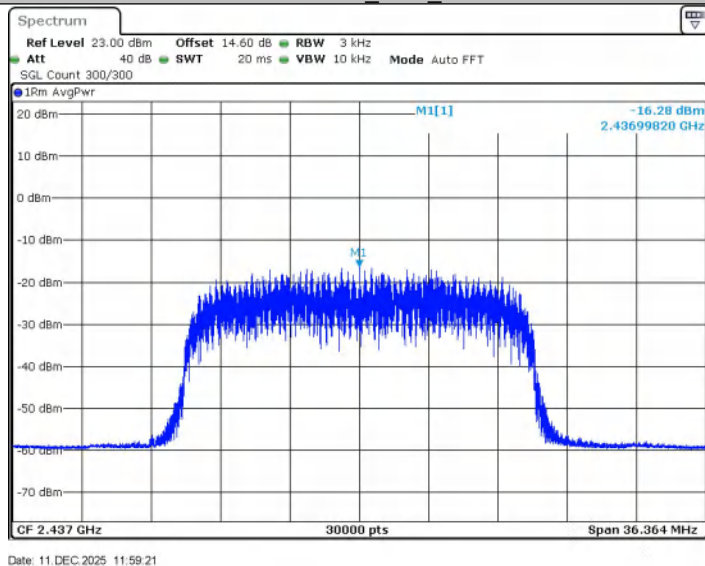
11N40SISO_Ant2_2452



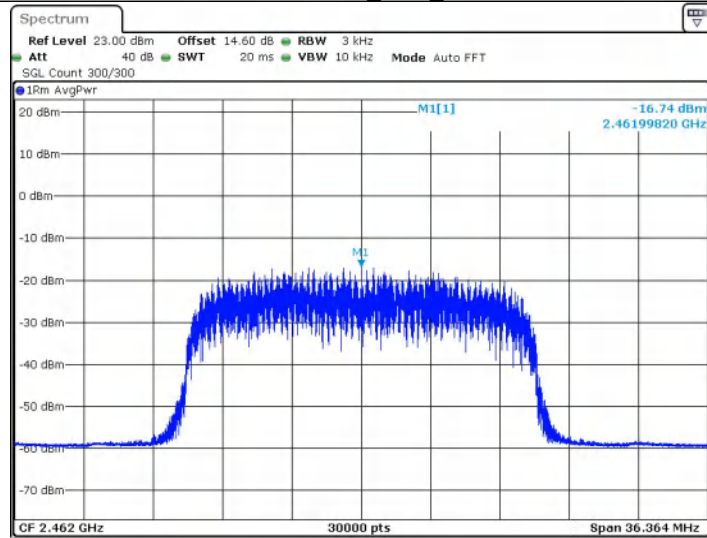
11AX20SISO_Ant2_2412



11AX20SISO_Ant2_2437

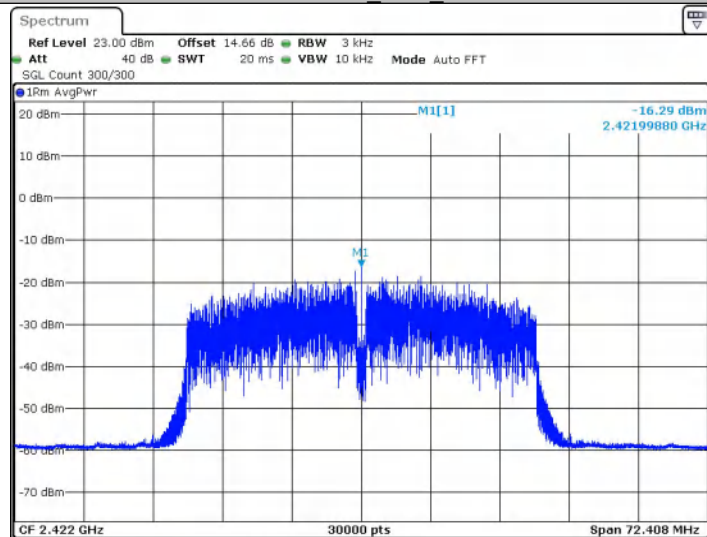


11AX20SISO_Ant2_2462



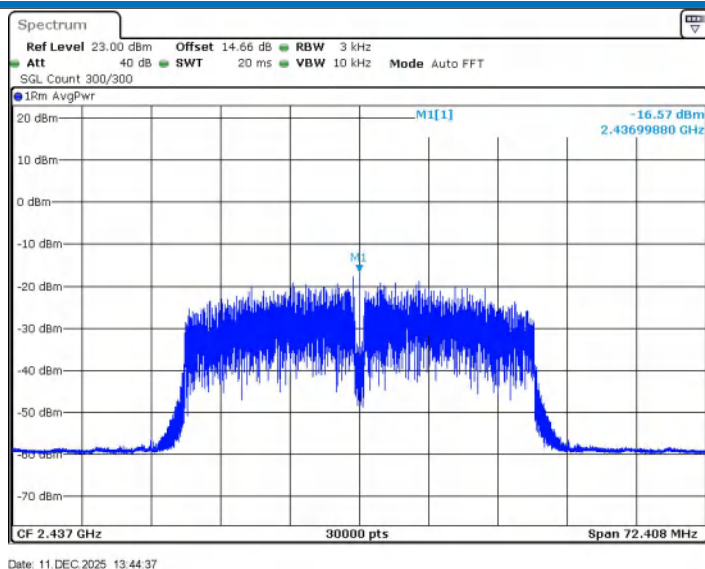
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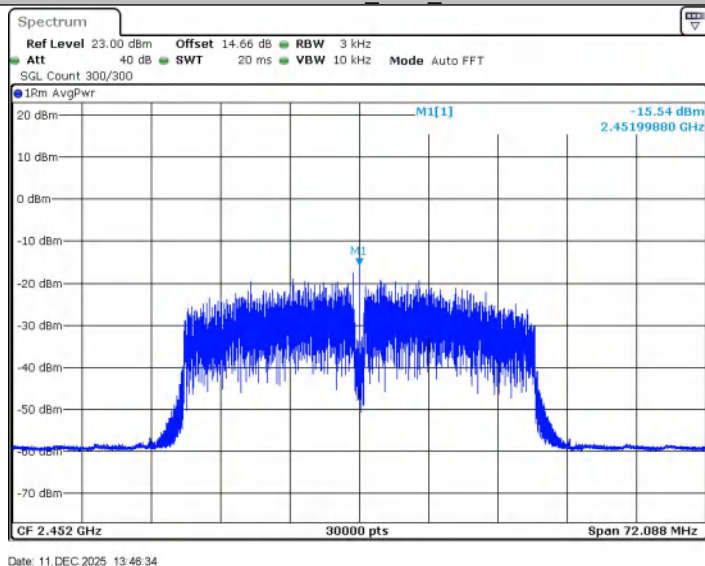


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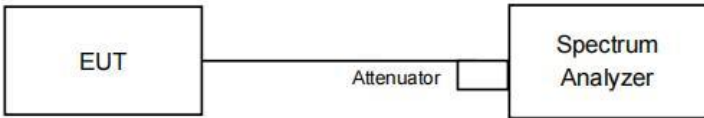
11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452



5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2020
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting in full-bandwidth single-user mode (Full RU) with all kinds of modulations, and at the lowest, middle, and highest data rates across the channel.
Final Test Mode:	Only the worst case is recorded in the report.
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 30 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