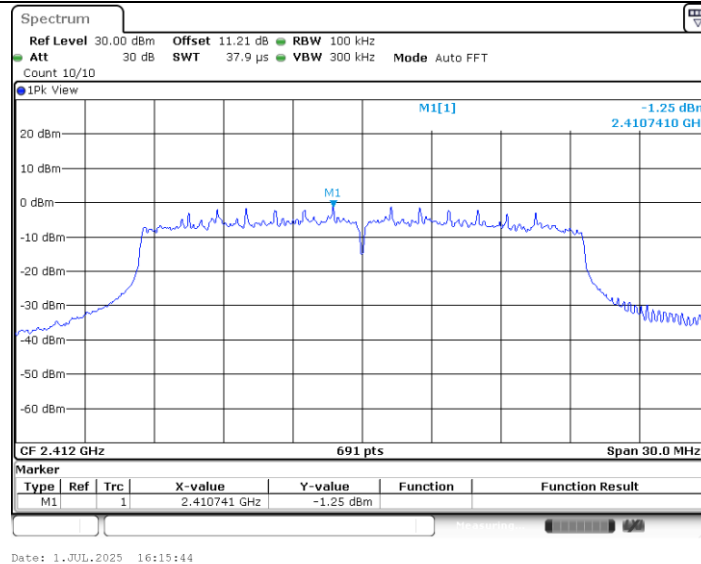
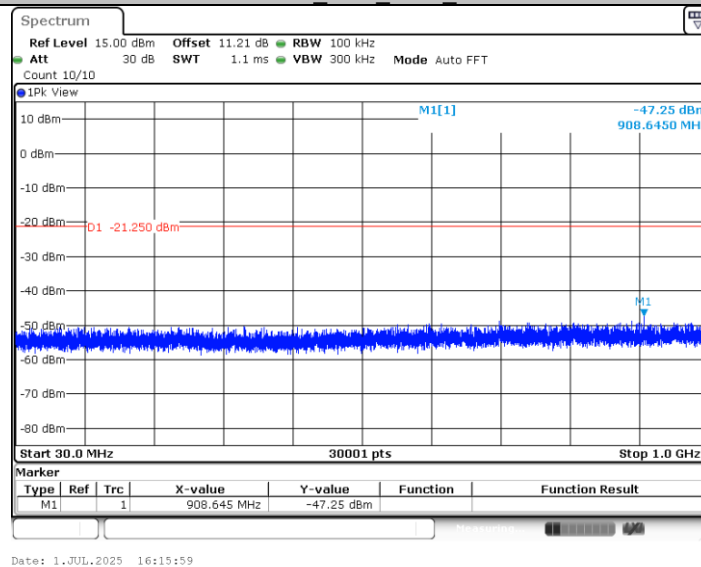
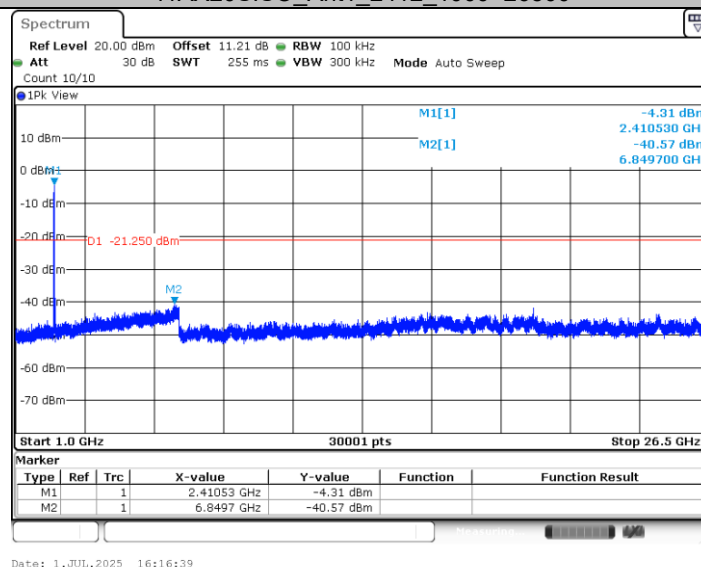




11AX20SISO_Ant1_2412_30~1000



11AX20SISO_Ant1_2412_1000~26500



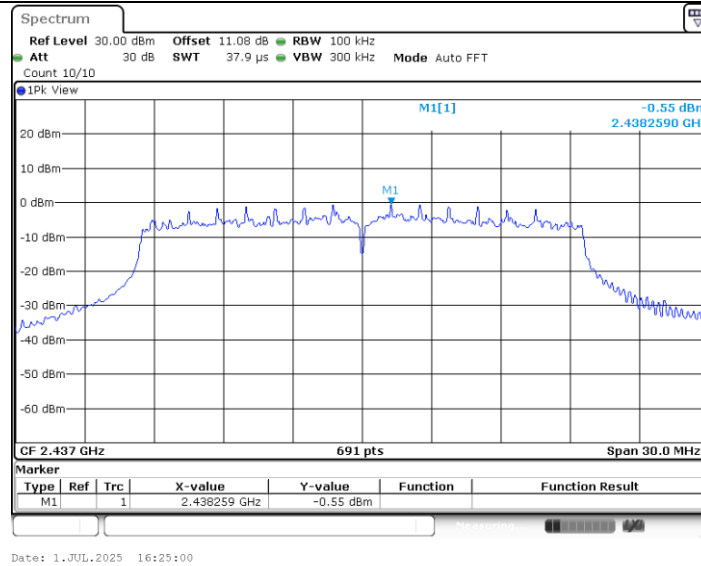
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CTC Laboratories, Inc.

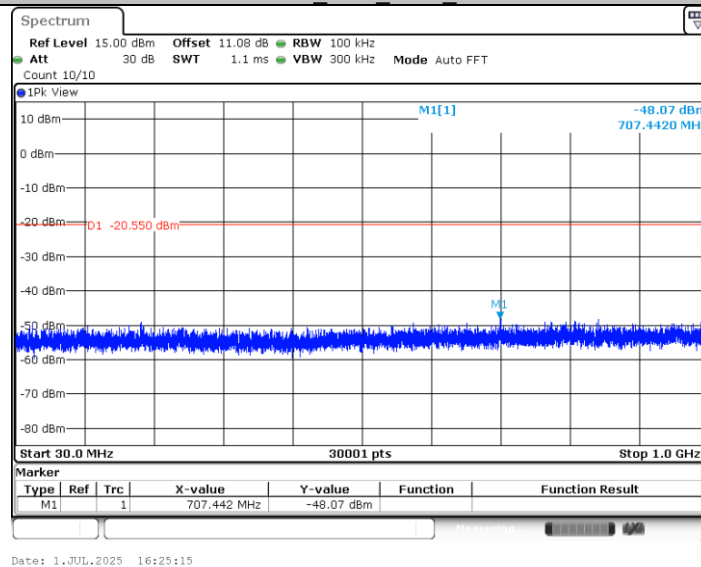
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

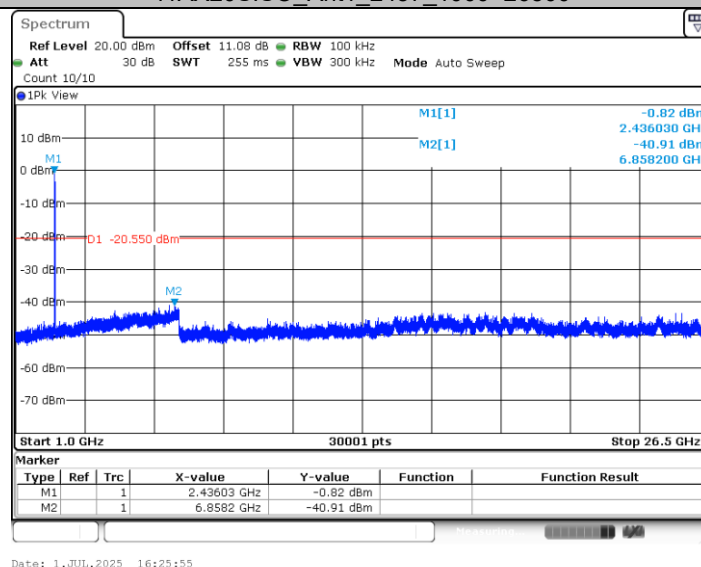
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11AX20SISO_Ant1_2437_30~1000



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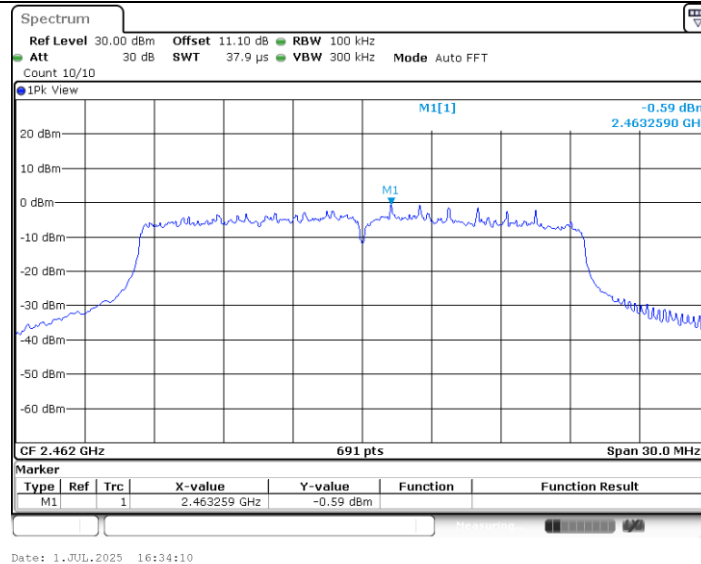
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CTC Laboratories, Inc.

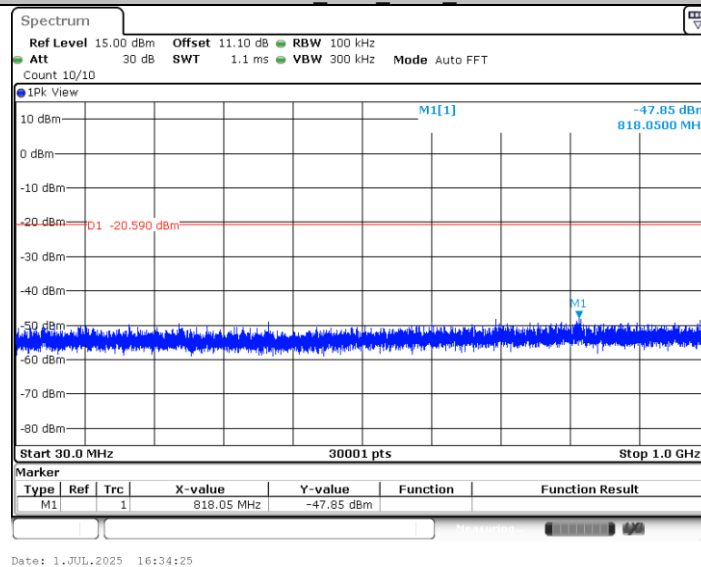
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

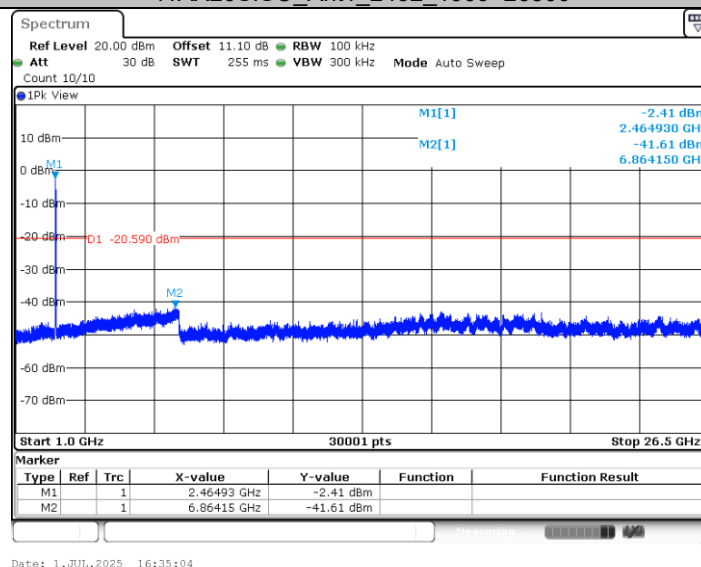
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Society : yz.cncaq.com



11AX20SISO_Ant1_2462_30~1000



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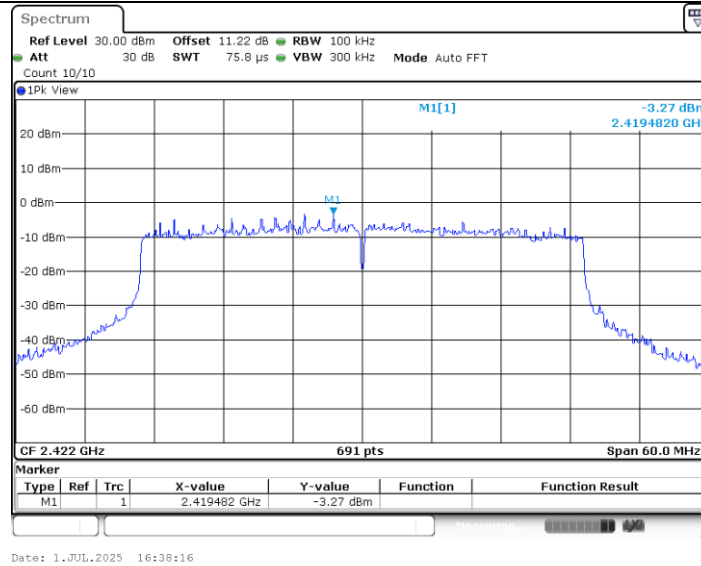
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CTC Laboratories, Inc.

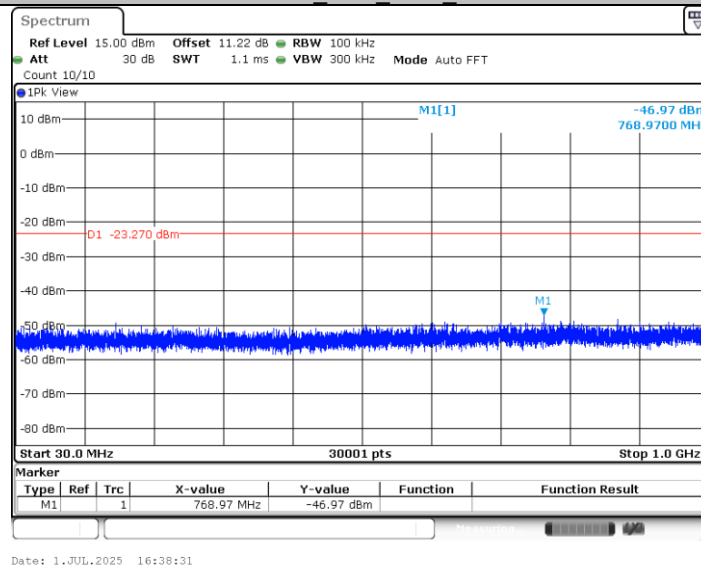
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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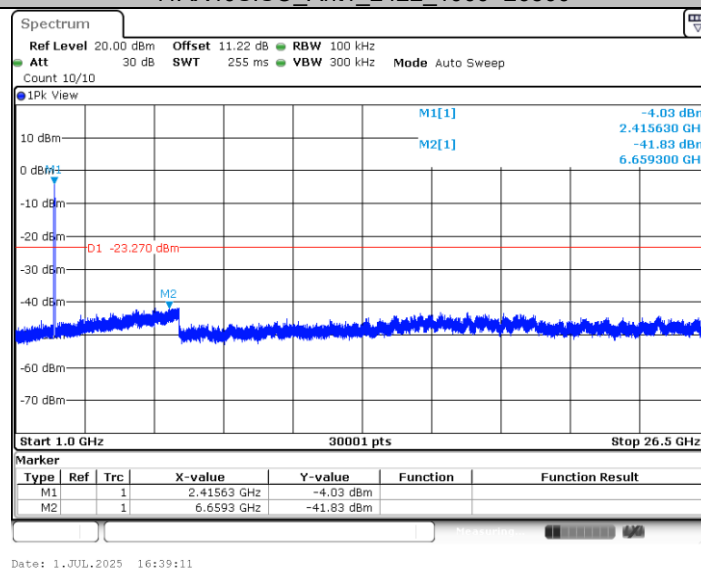
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX40SISO_Ant1_2422_30~1000



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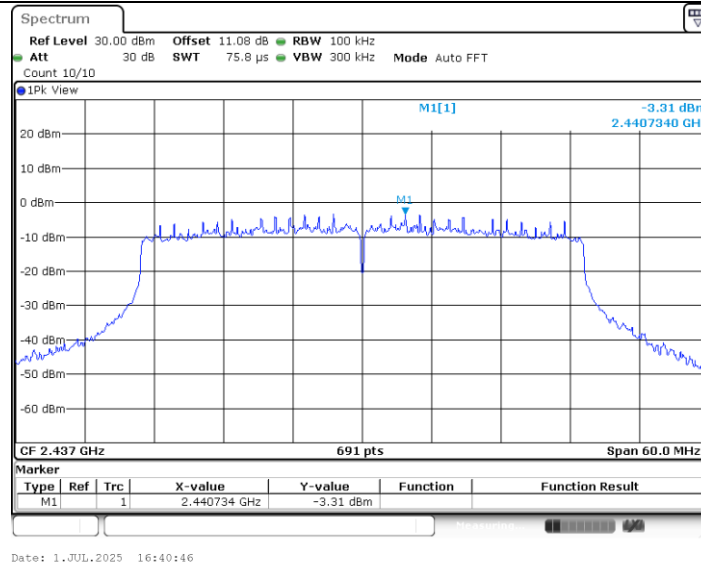
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CTC Laboratories, Inc.

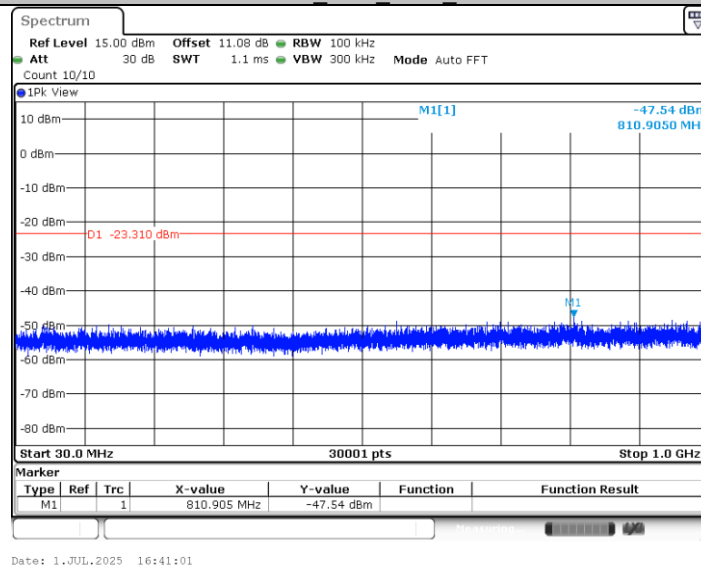
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

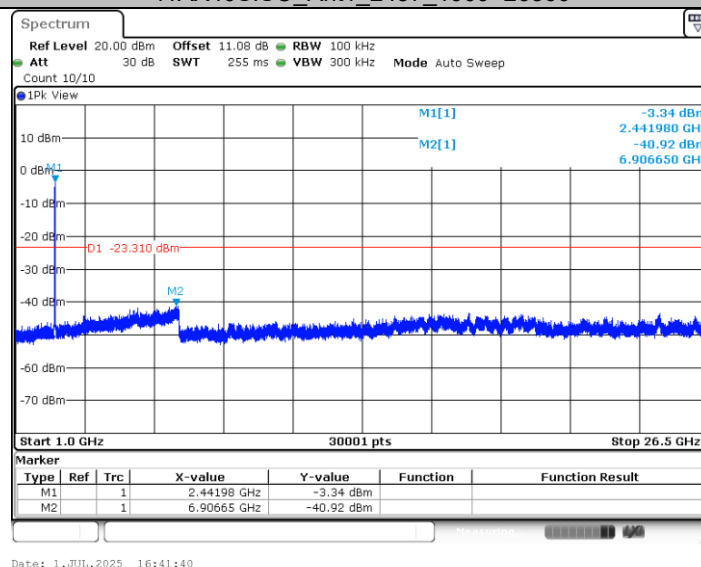
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11AX40SISO_Ant1_2437_30~1000



11AX40SISO_Ant1_2437_1000~26500



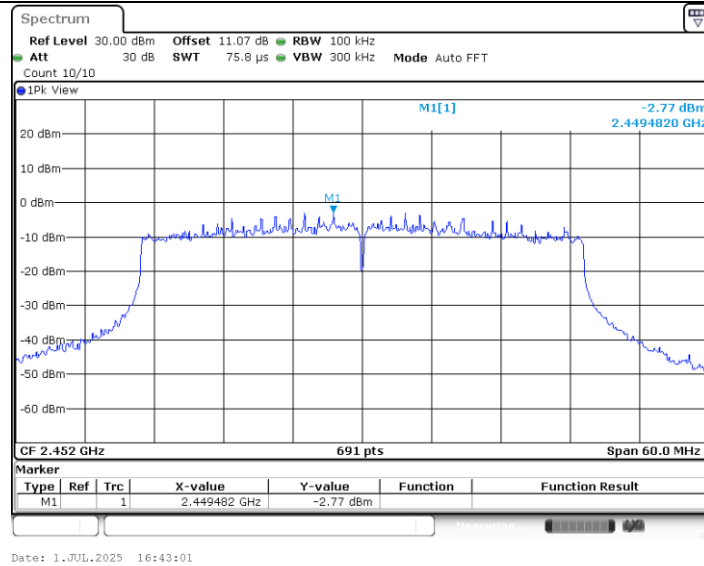
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CTC Laboratories, Inc.

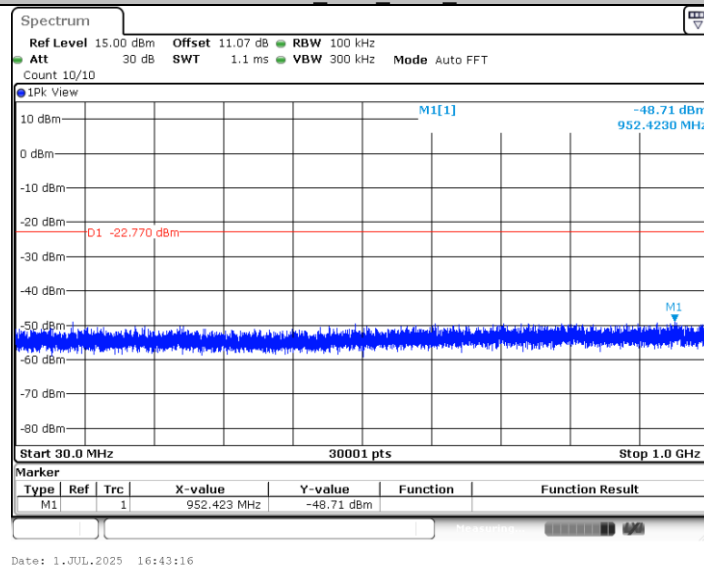
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

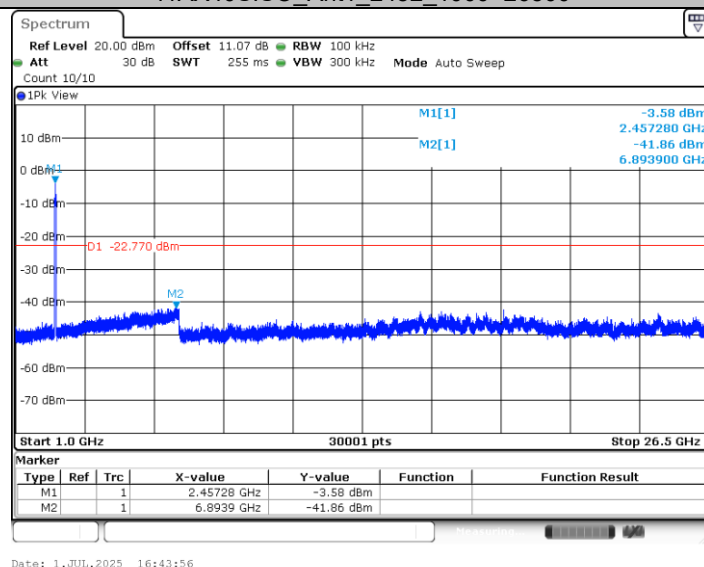
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11AX40SISO_Ant1_2452_30~1000



11AX40SISO_Ant1_2452_1000~26500



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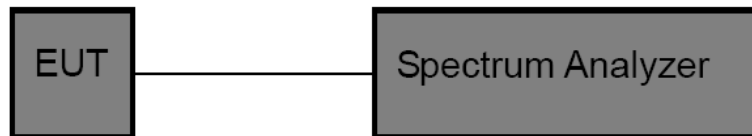
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥ 500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.307	9.04	0.5	PASS
		2437	13.467	9.04	0.5	PASS
		2462	13.387	9.08	0.5	PASS
11G	Ant1	2412	17.223	16.36	0.5	PASS
		2437	17.662	16.36	0.5	PASS
		2462	17.303	15.80	0.5	PASS
11N20SISO	Ant1	2412	18.741	16.04	0.5	PASS
		2437	18.222	17.56	0.5	PASS
		2462	18.182	17.64	0.5	PASS
11N40SISO	Ant1	2422	36.843	33.36	0.5	PASS
		2437	37.083	36.32	0.5	PASS
		2452	36.603	32.64	0.5	PASS
11AX20SISO	Ant1	2412	19.261	18.96	0.5	PASS
		2437	19.181	16.96	0.5	PASS
		2462	19.181	17.72	0.5	PASS
11AX40SISO	Ant1	2422	38.202	36.32	0.5	PASS
		2437	38.042	37.04	0.5	PASS
		2452	37.962	37.60	0.5	PASS

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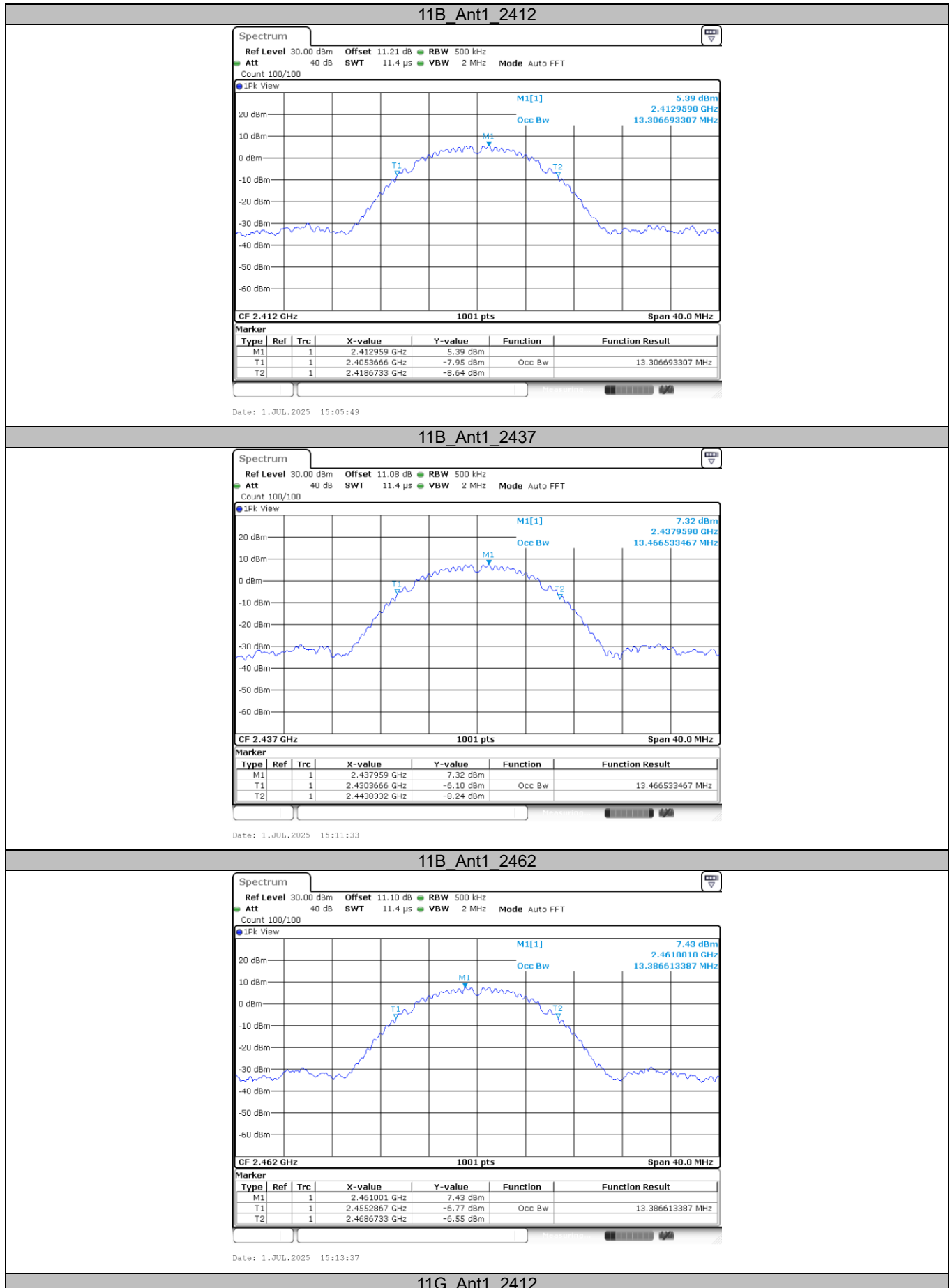
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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99% Bandwidth:

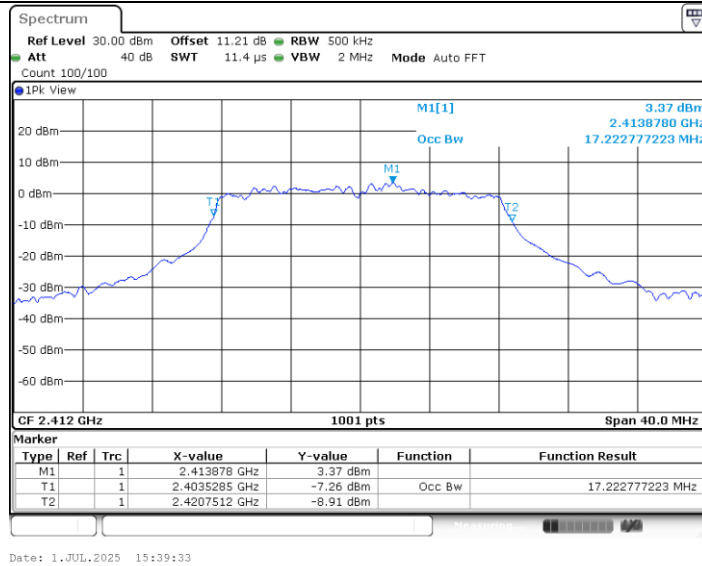


CTC Laboratories, Inc.

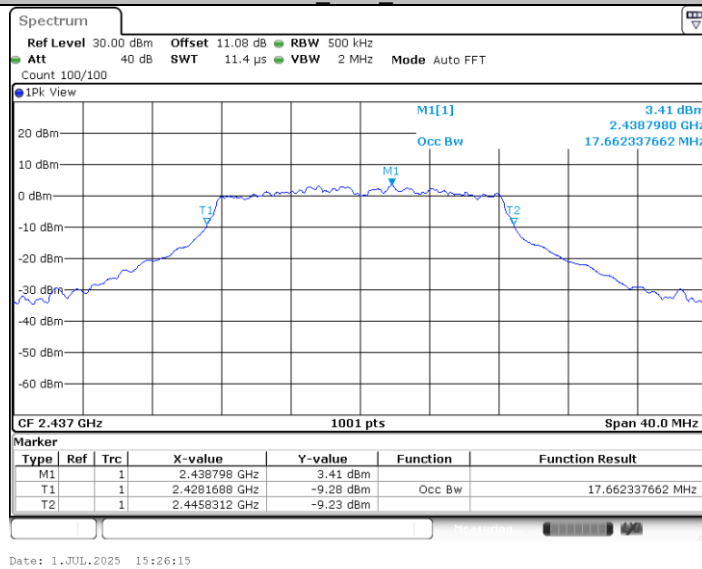
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A2

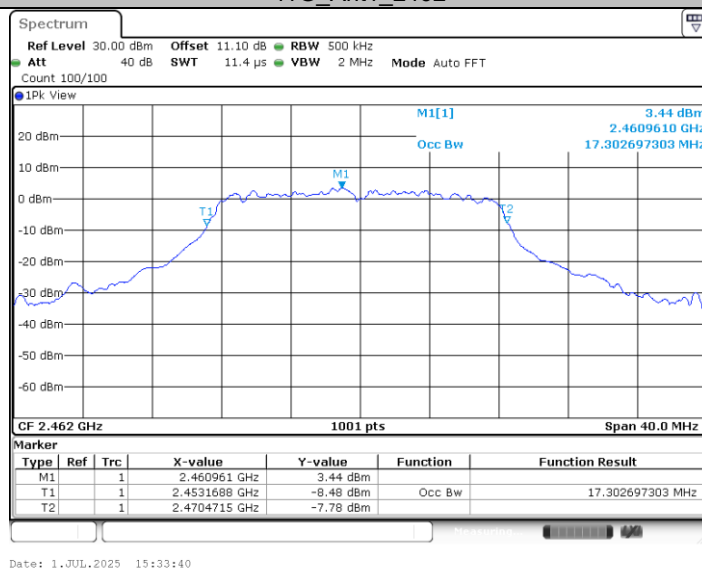
For anti-fake verification, please visit the official website of China Inspection And Testing
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11G_Ant1_2437



11G_Ant1_2462



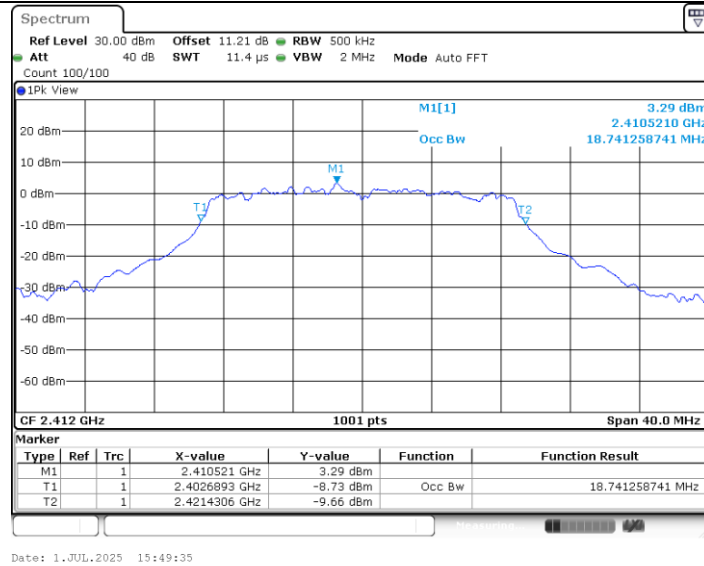
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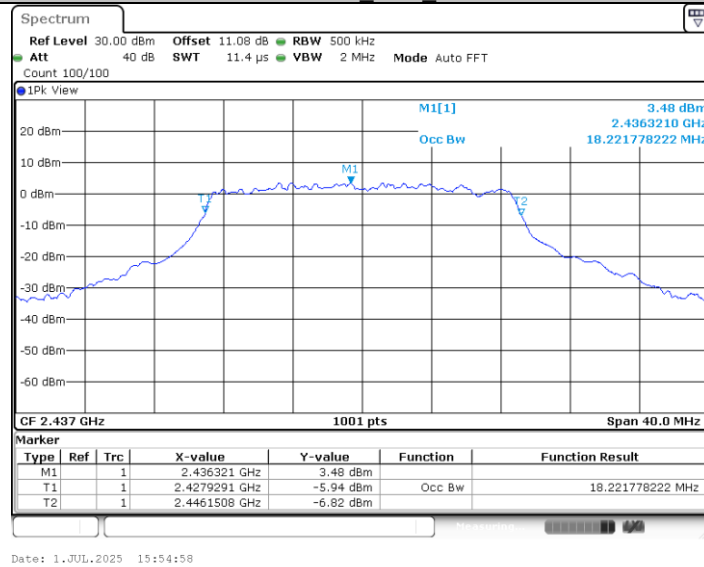
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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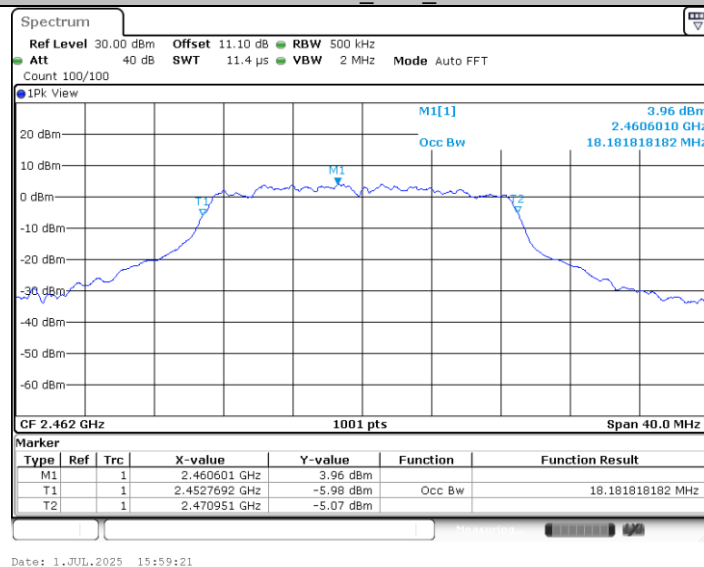
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



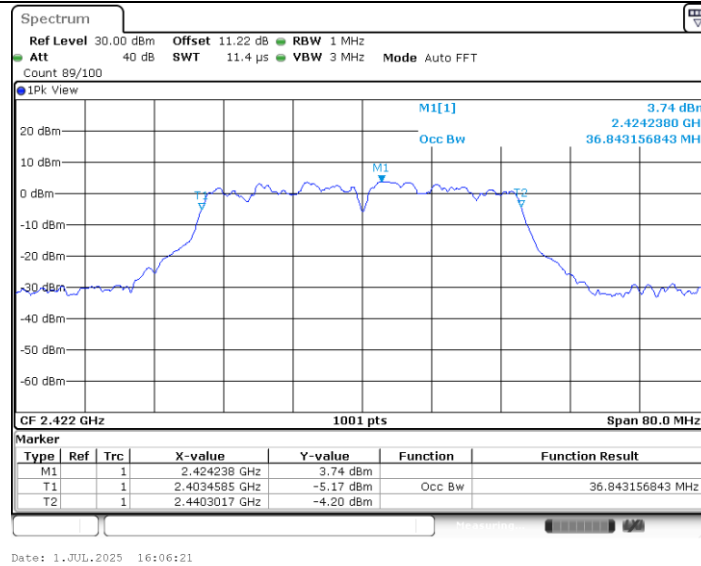
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CTC Laboratories, Inc.

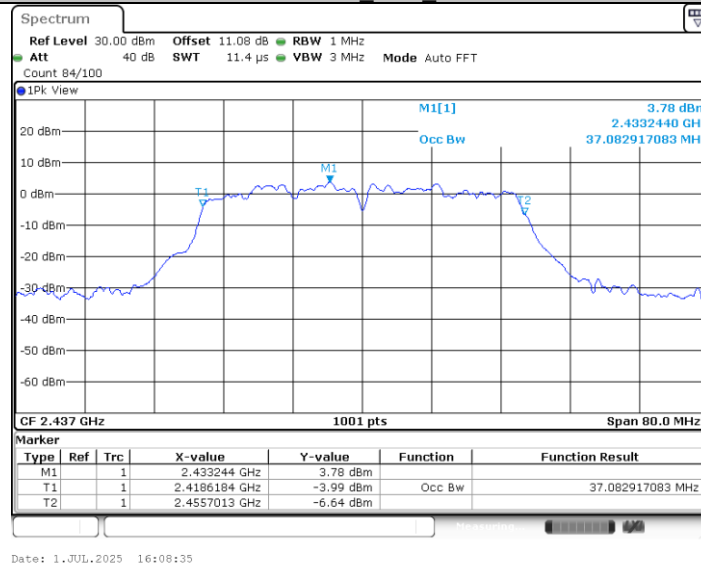
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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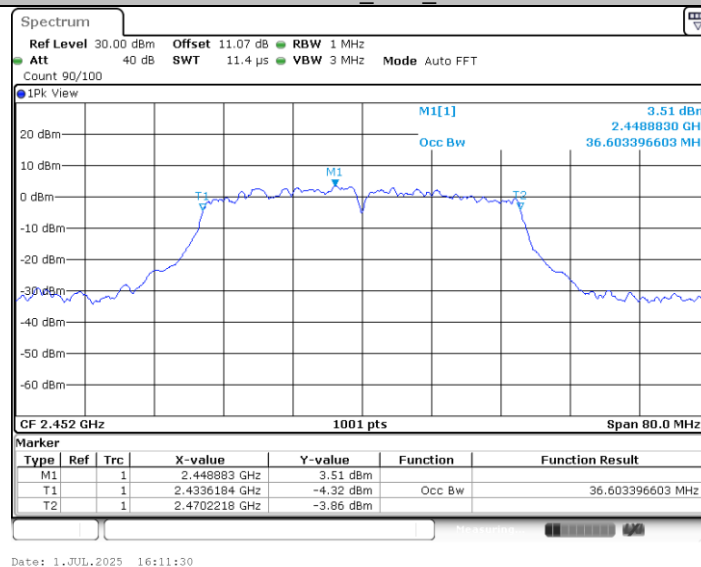
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



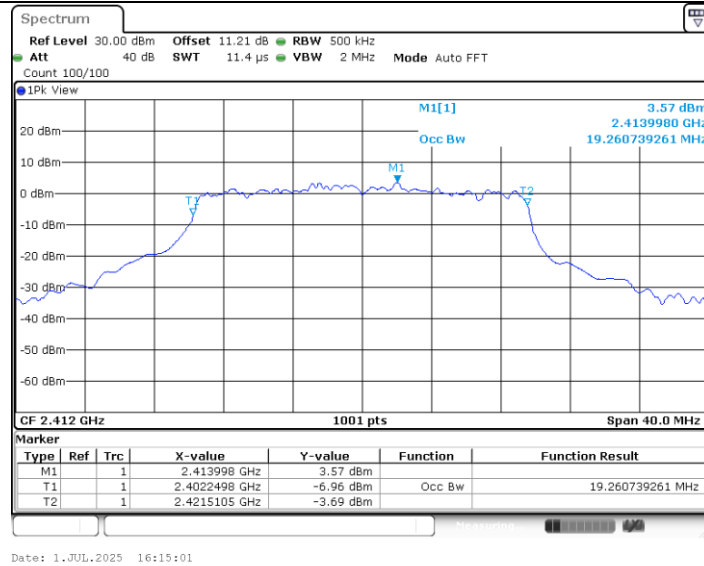
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CTC Laboratories, Inc.

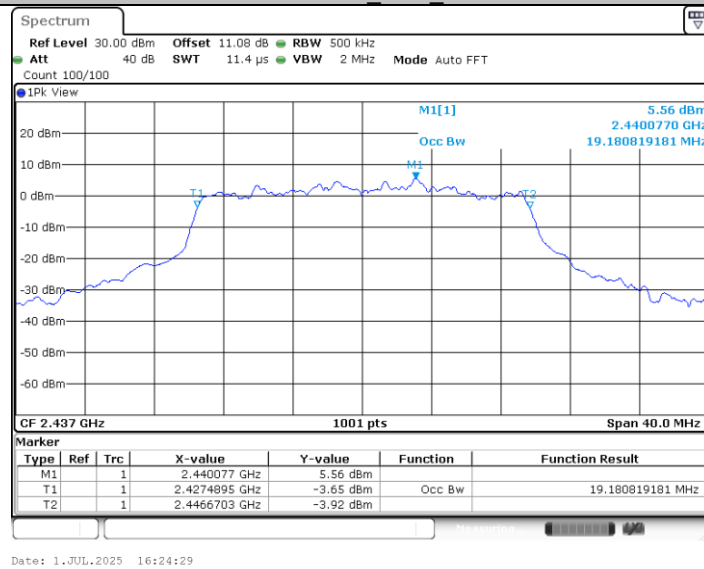
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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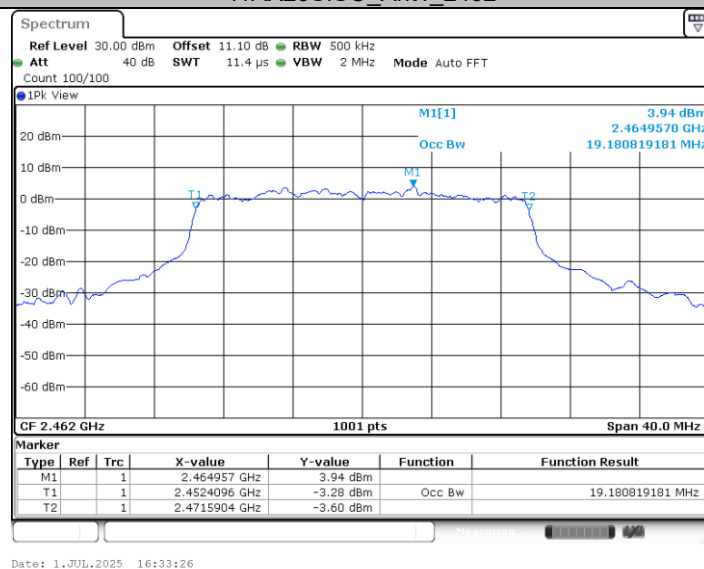
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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



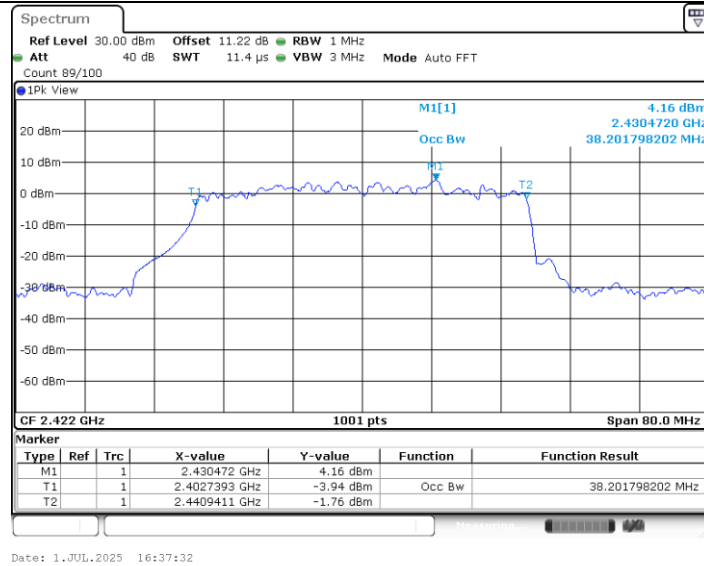
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CTC Laboratories, Inc.

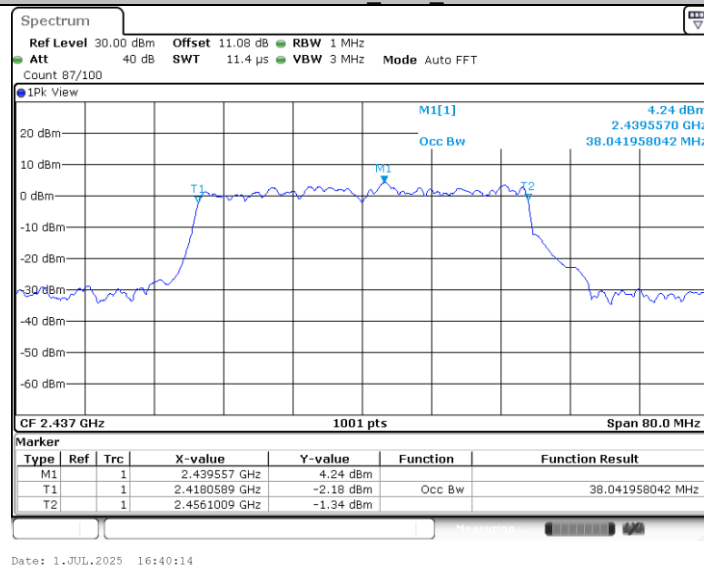
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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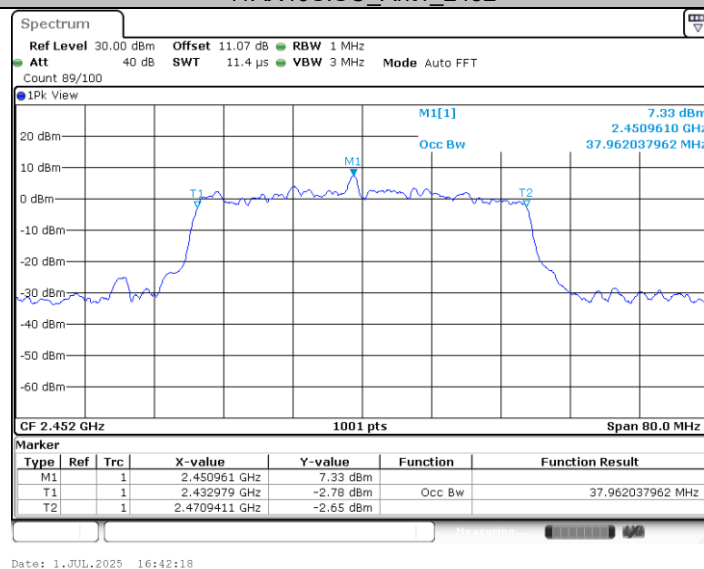
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Society : yz.cncaq.com



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



CTC Laboratories, Inc.

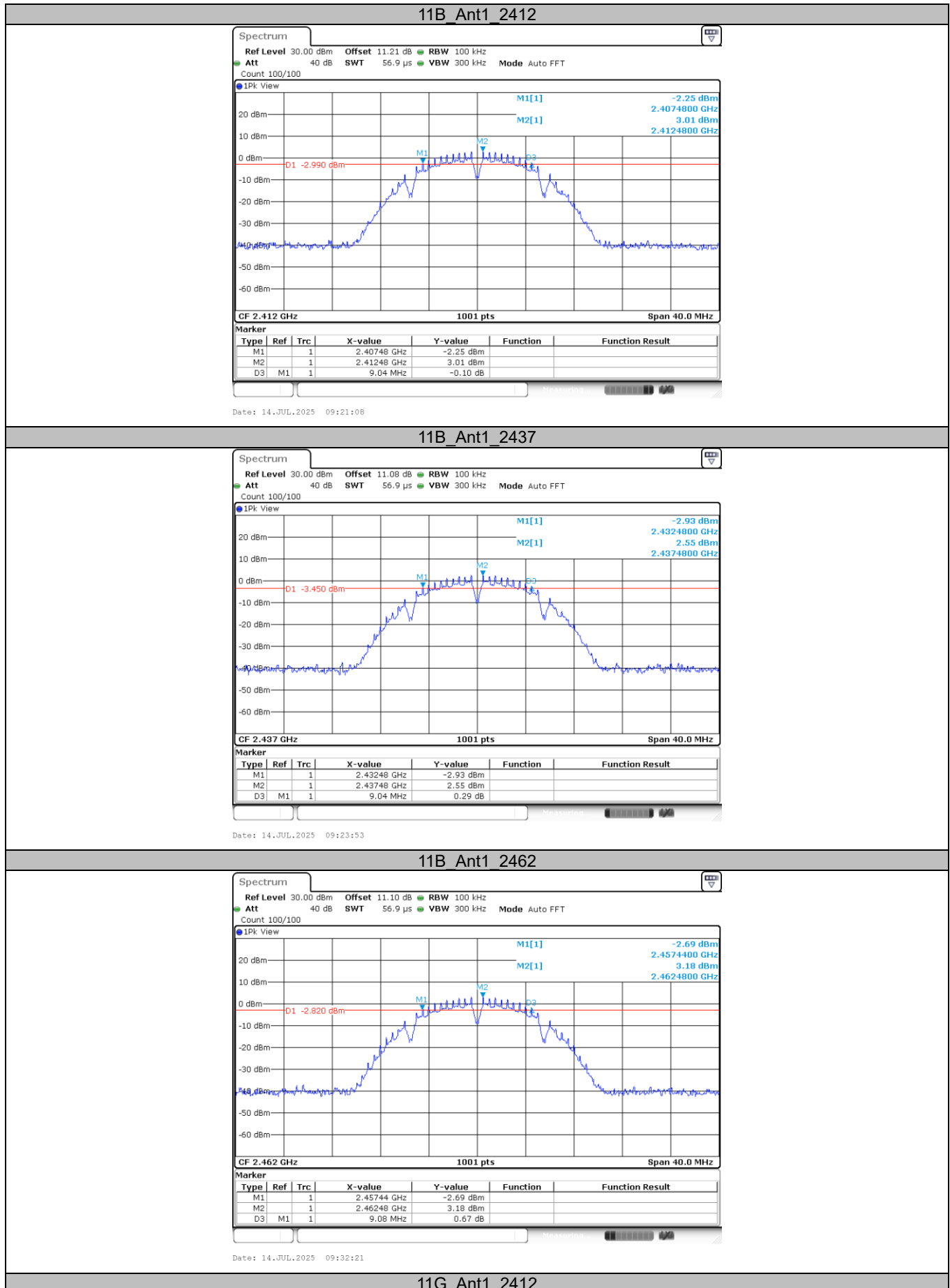
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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DTS Bandwidth:

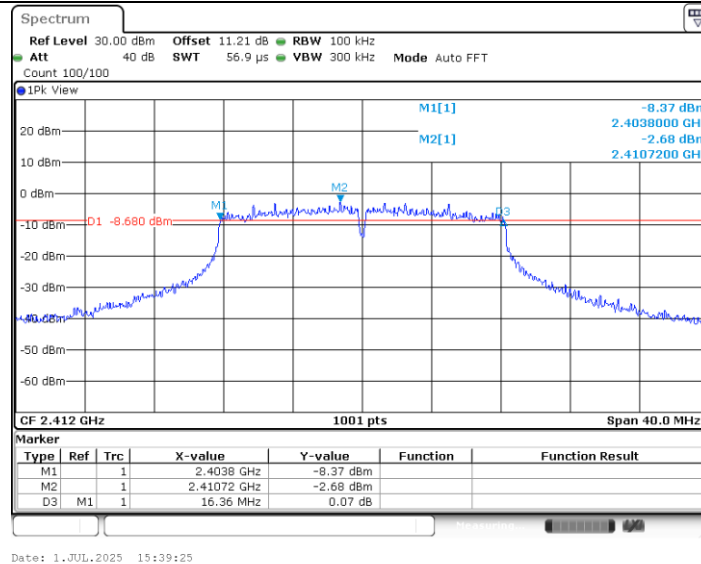


CTC Laboratories, Inc.

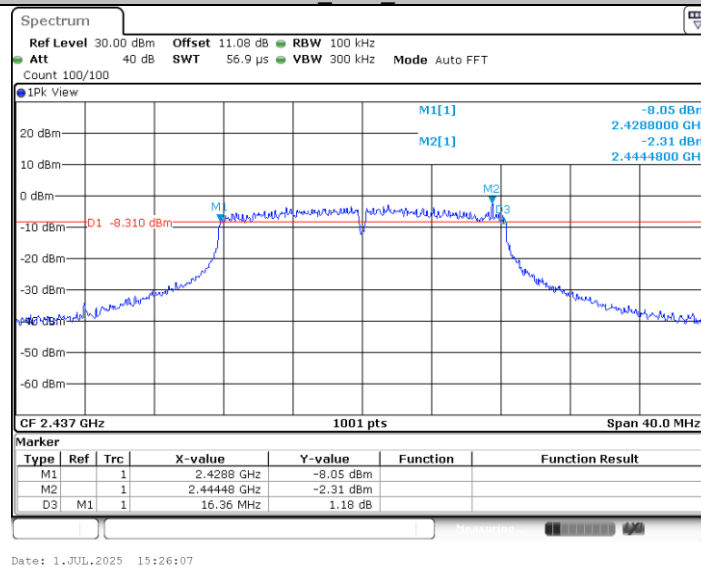
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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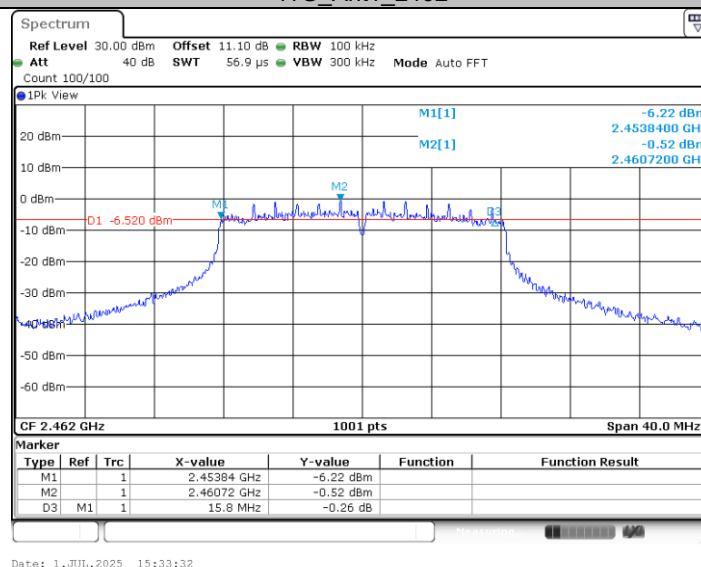
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Society : yz.cncaq.com



11G_Ant1_2437



11G_Ant1_2462



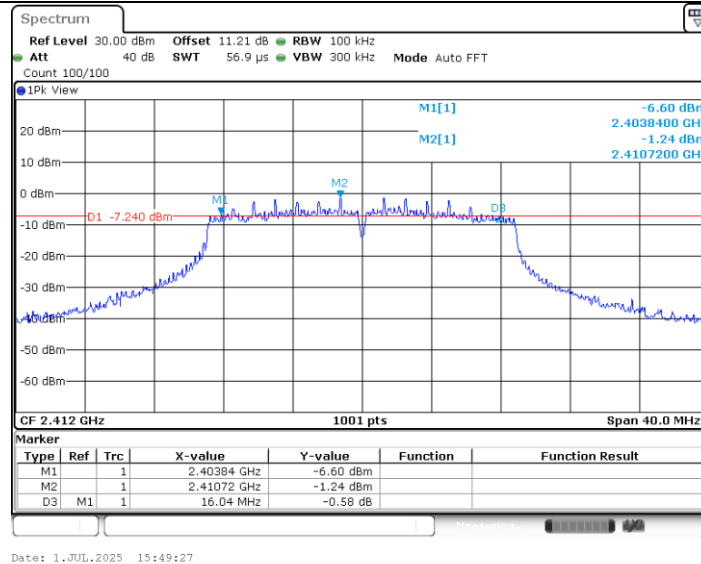
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CTC Laboratories, Inc.

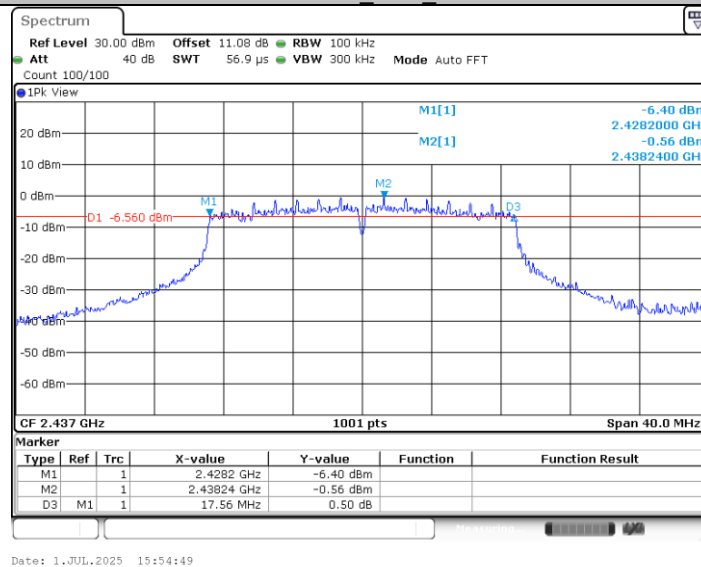
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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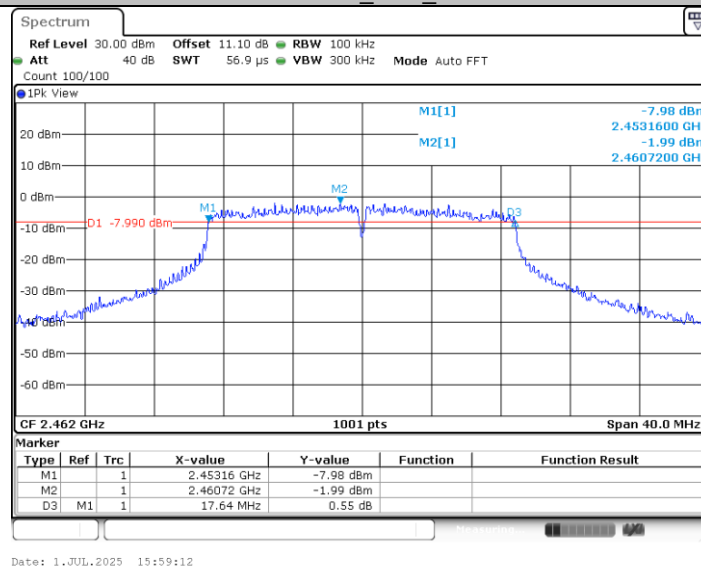
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



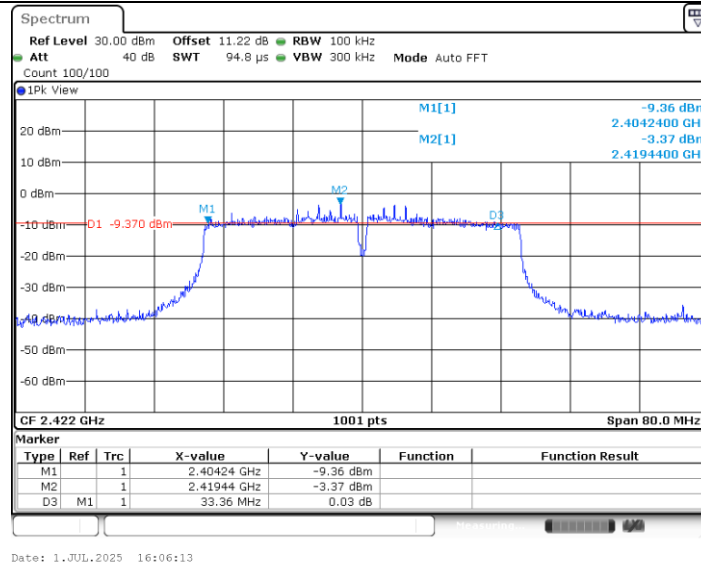
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CTC Laboratories, Inc.

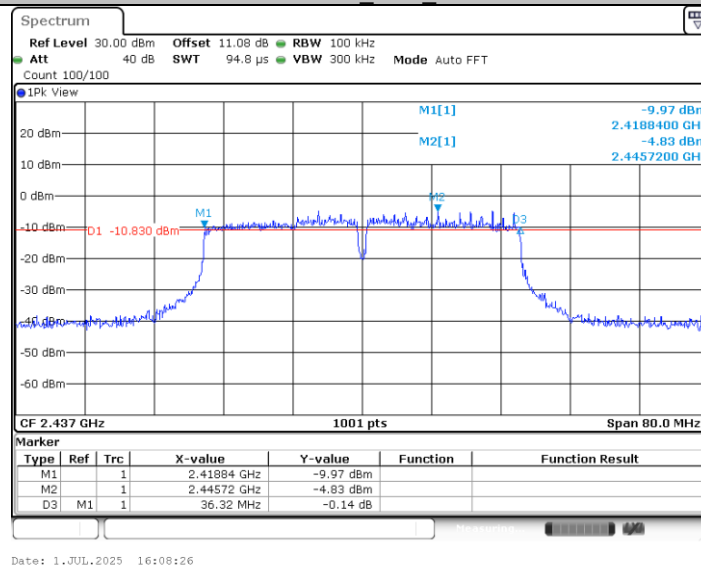
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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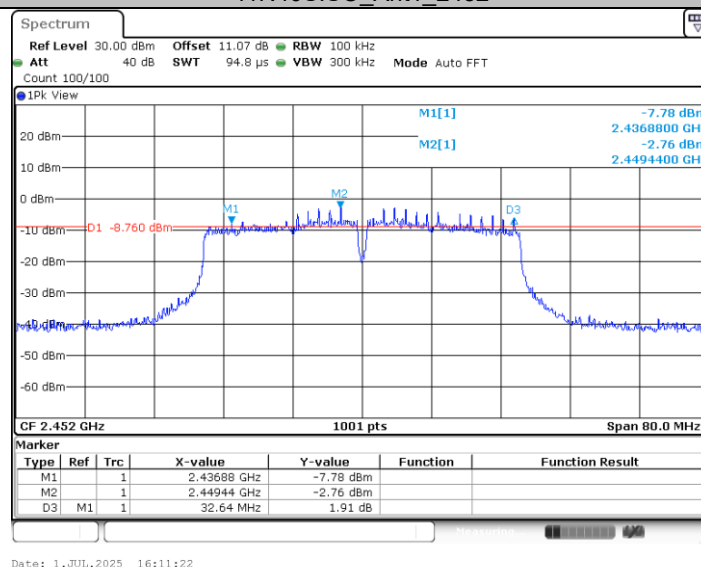
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



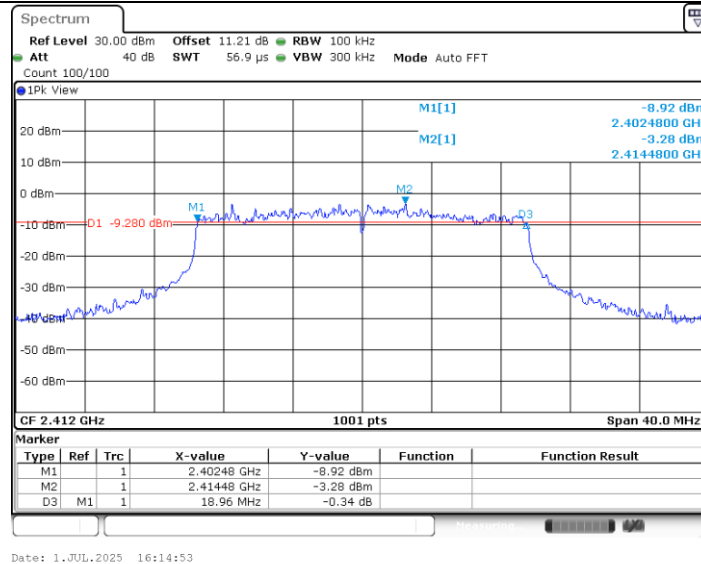
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CTC Laboratories, Inc.

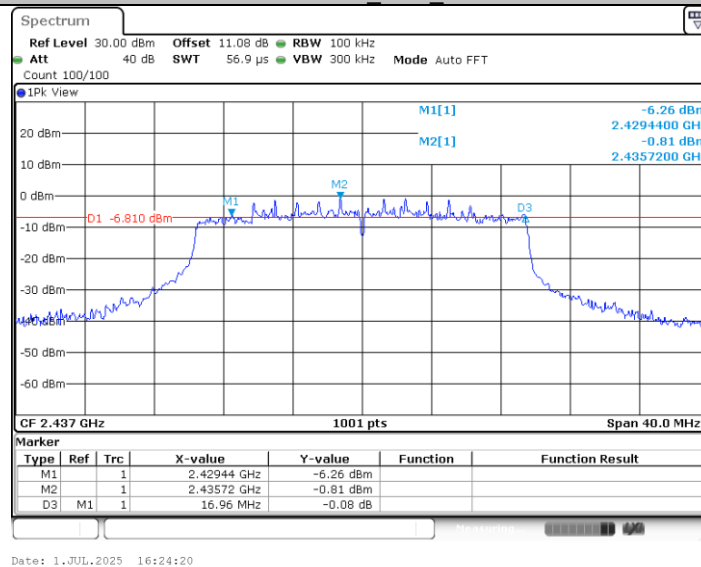
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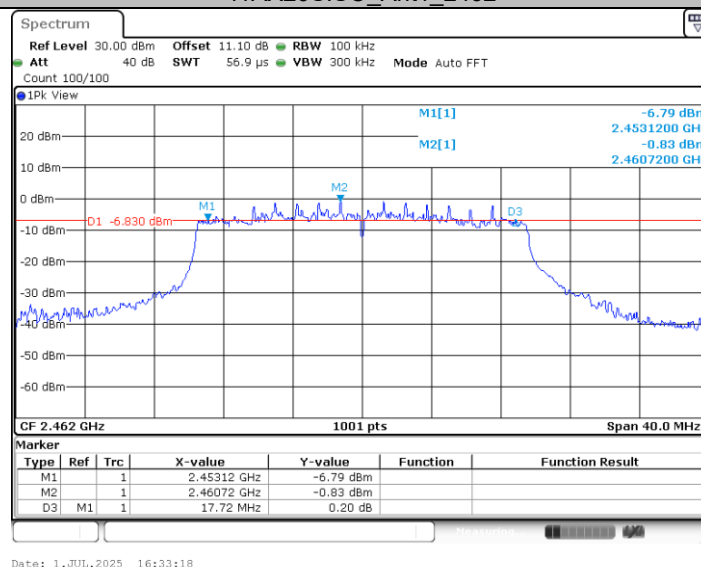
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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



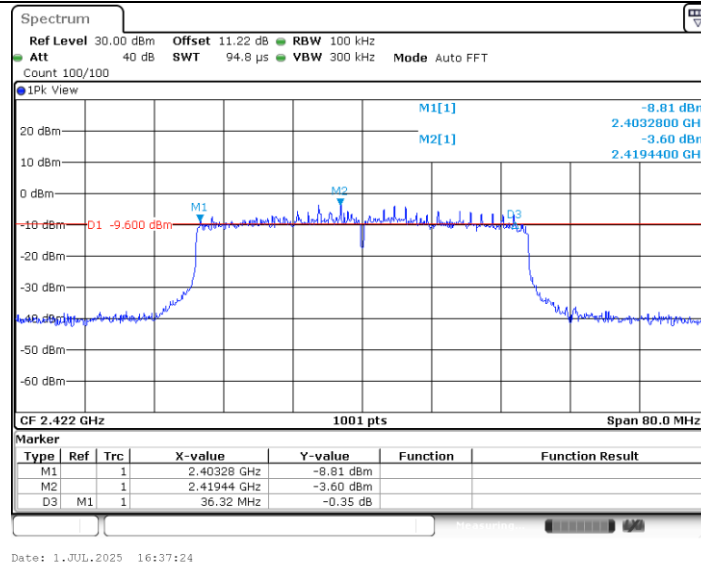
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CTC Laboratories, Inc.

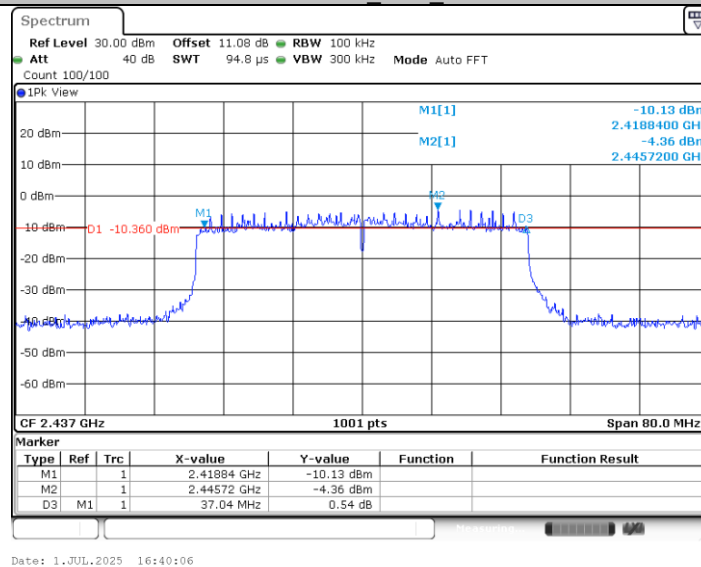
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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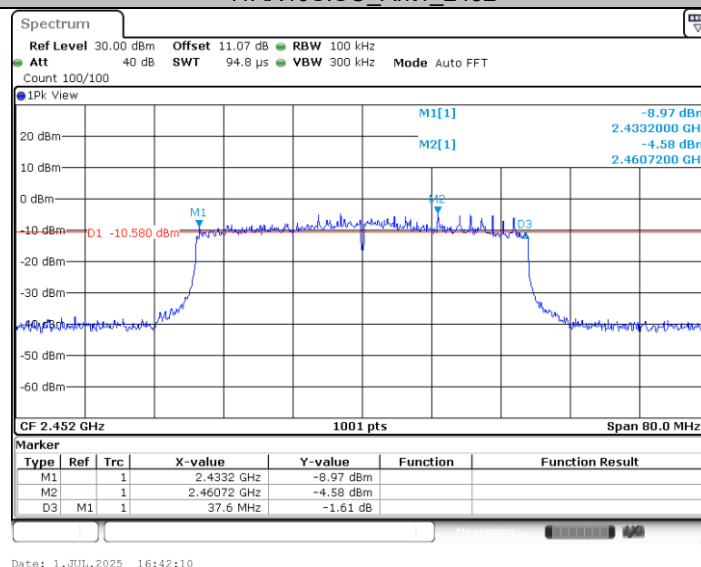
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11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



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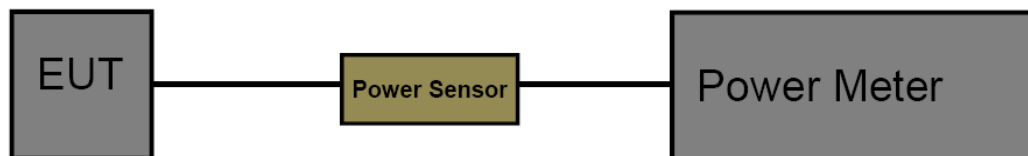
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.98	≤30.00	PASS
		2437	13.92	≤30.00	PASS
		2462	14.22	≤30.00	PASS
11G	Ant1	2412	17.17	≤30.00	PASS
		2437	17.80	≤30.00	PASS
		2462	17.68	≤30.00	PASS
11N20SISO	Ant1	2412	17.78	≤30.00	PASS
		2437	17.73	≤30.00	PASS
		2462	17.68	≤30.00	PASS
11N40SISO	Ant1	2422	17.59	≤30.00	PASS
		2437	17.78	≤30.00	PASS
		2452	17.57	≤30.00	PASS
11AX20SISO	Ant1	2412	17.59	≤30.00	PASS
		2437	17.91	≤30.00	PASS
		2462	18.04	≤30.00	PASS
11AX40SISO	Ant1	2422	18.15	≤30.00	PASS
		2437	18.23	≤30.00	PASS
		2452	18.28	≤30.00	PASS

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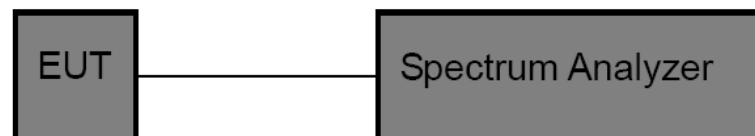
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.83	≤8.00	PASS
		2437	-10.87	≤8.00	PASS
		2462	-10.86	≤8.00	PASS
11G	Ant1	2412	-15.75	≤8.00	PASS
		2437	-14.87	≤8.00	PASS
		2462	-14.86	≤8.00	PASS
11N20SISO	Ant1	2412	-13.49	≤8.00	PASS
		2437	-14.32	≤8.00	PASS
		2462	-14.52	≤8.00	PASS
11N40SISO	Ant1	2422	-17.03	≤8.00	PASS
		2437	-17.06	≤8.00	PASS
		2452	-17.79	≤8.00	PASS
11AX20SISO	Ant1	2412	-15.36	≤8.00	PASS
		2437	-14.93	≤8.00	PASS
		2462	-15.75	≤8.00	PASS
11AX40SISO	Ant1	2422	-17.02	≤8.00	PASS
		2437	-18.14	≤8.00	PASS
		2452	-17.67	≤8.00	PASS

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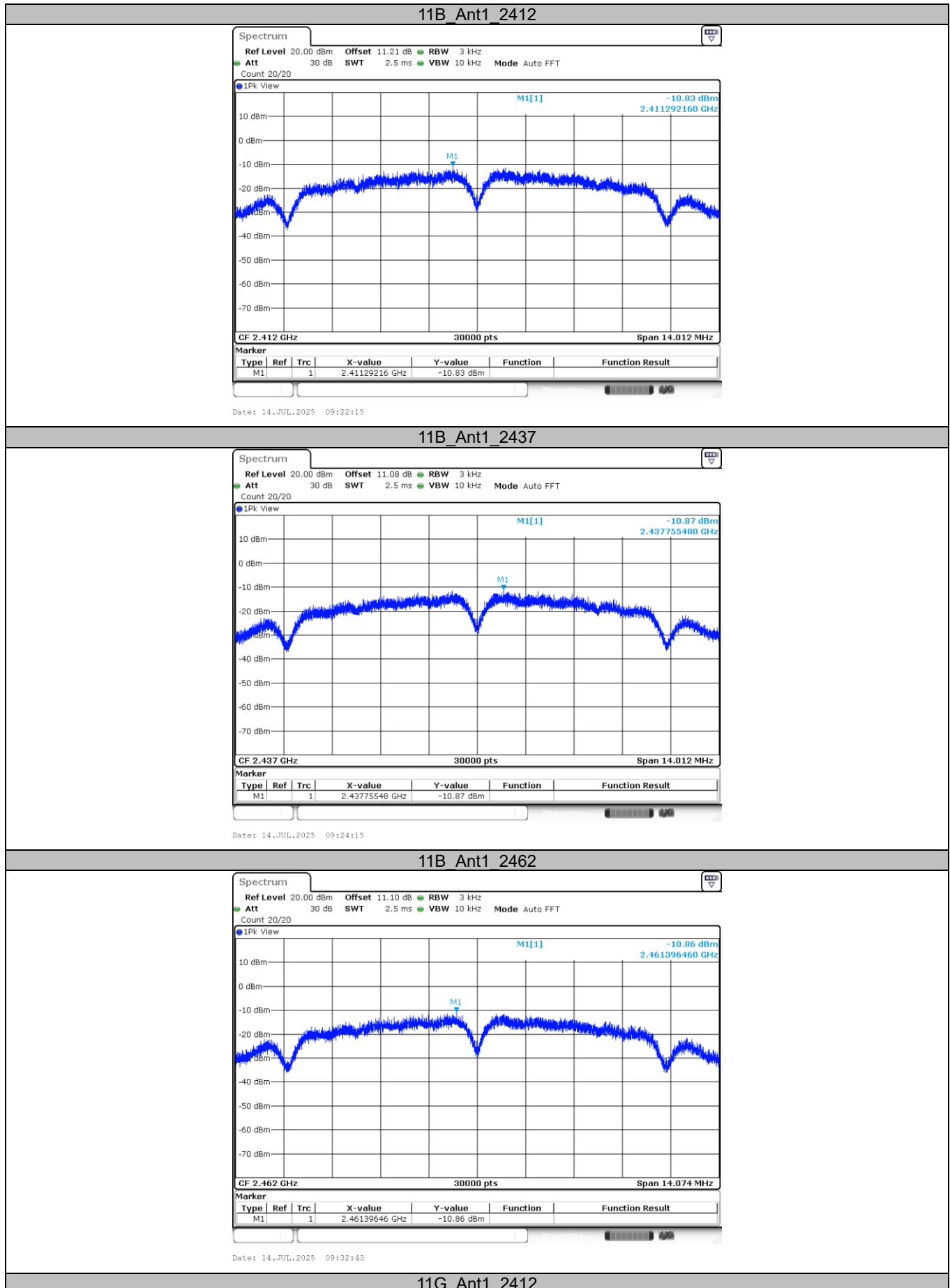
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Test plot as follows:

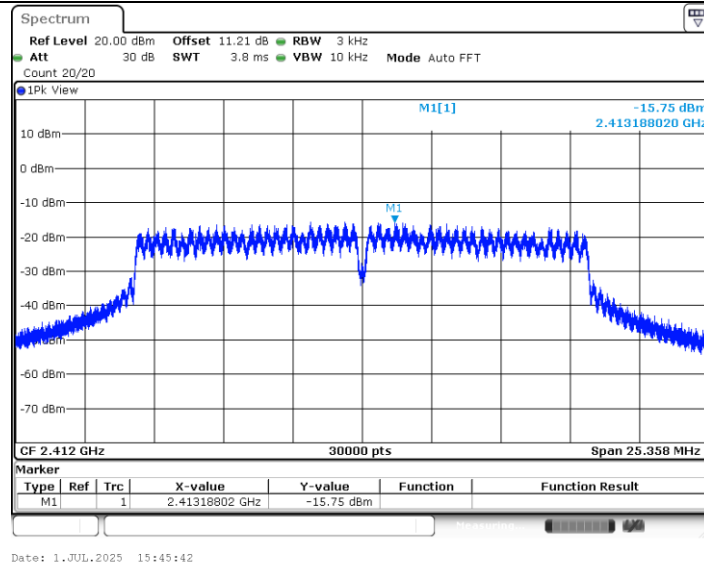


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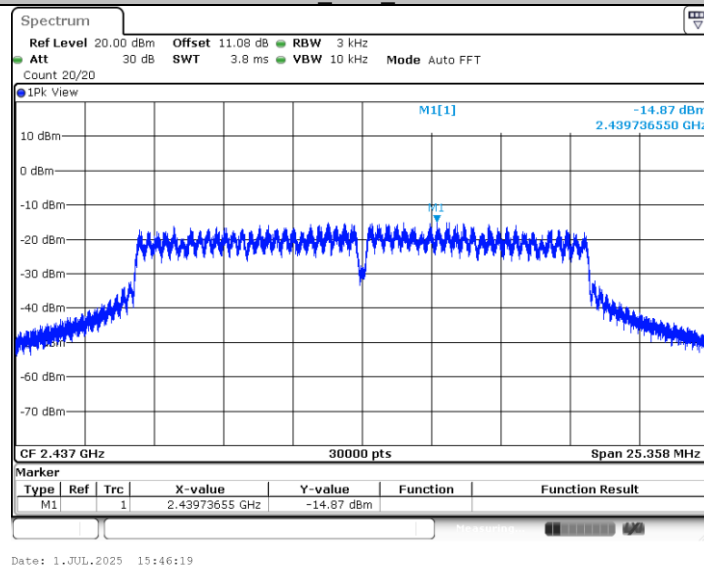
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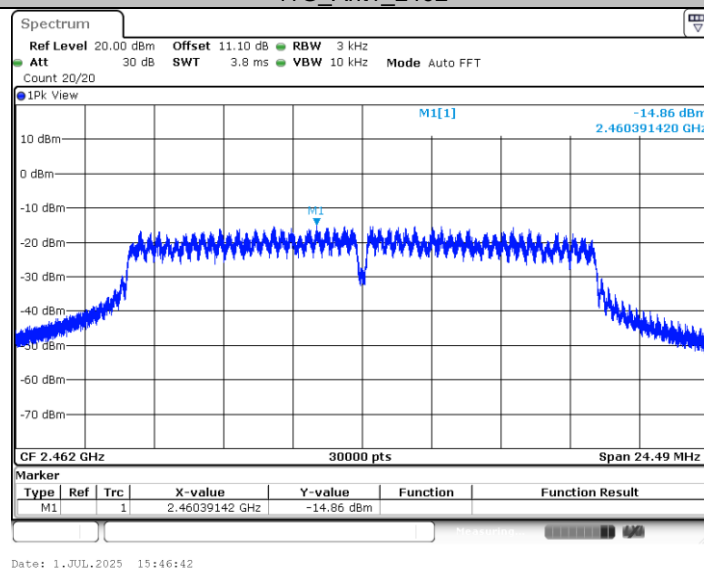
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11G_Ant1_2437



11G_Ant1_2462



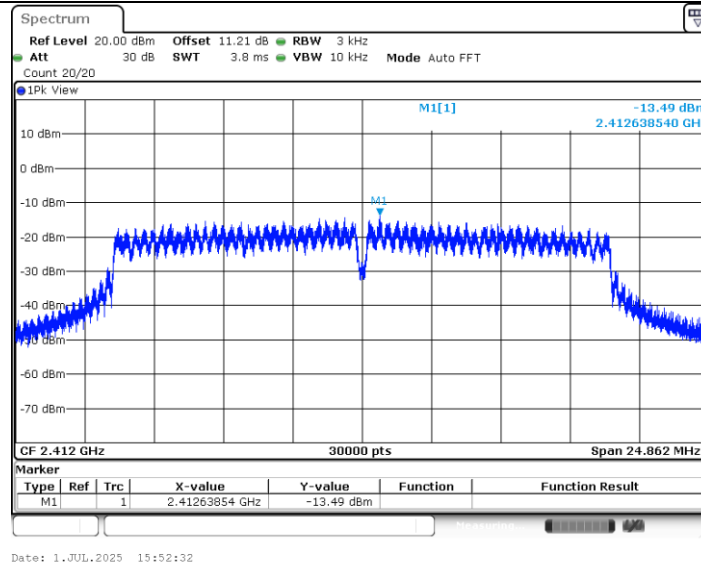
11N20SISO_Ant1_2412

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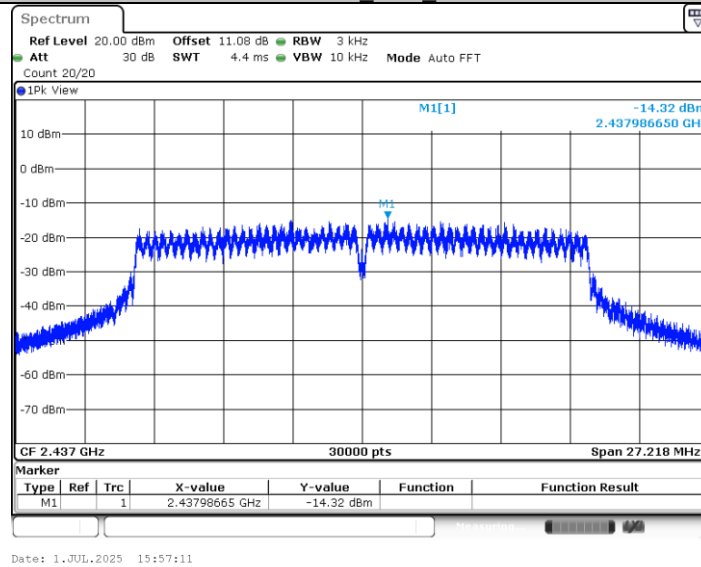
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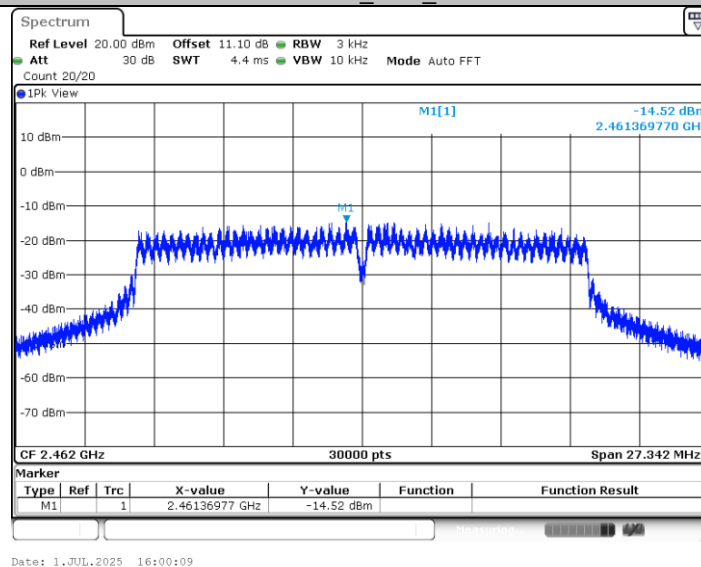
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



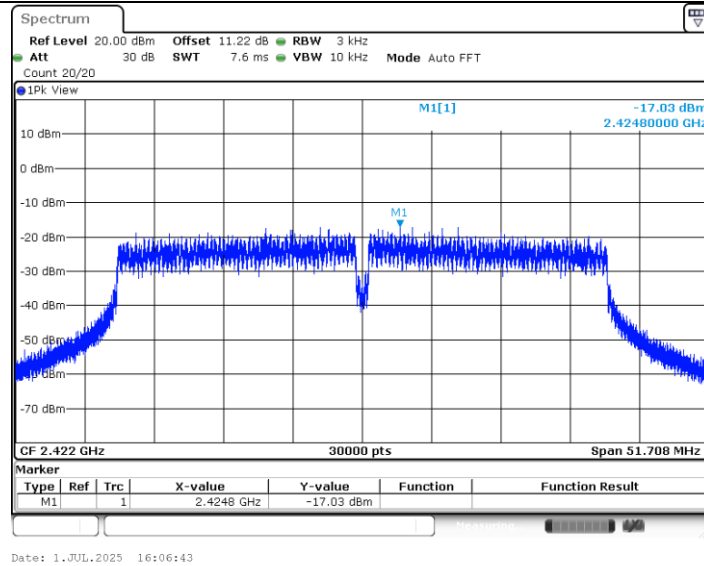
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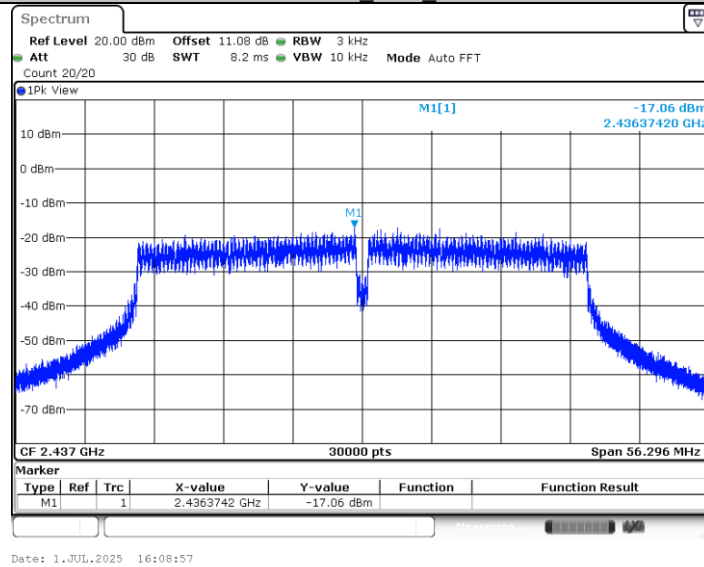
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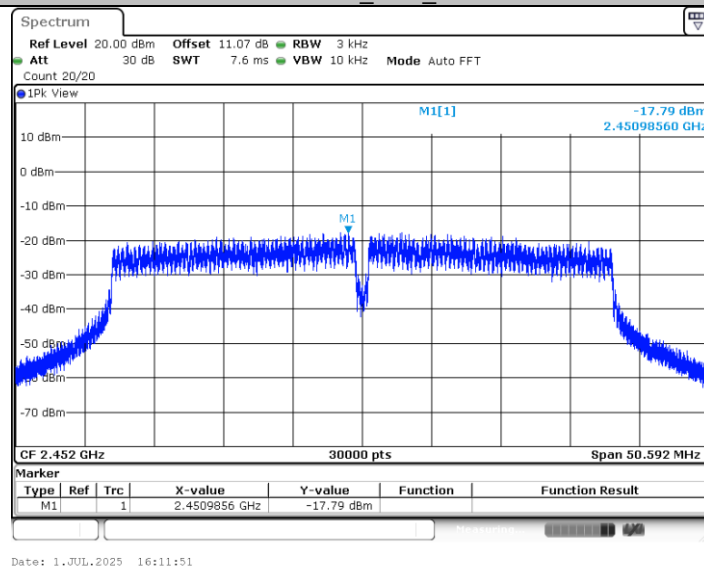
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



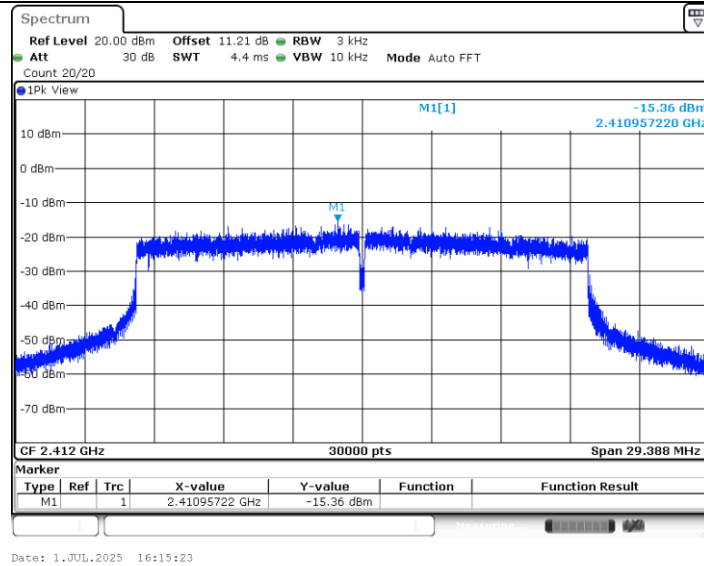
11AX20SISO_Ant1_2412

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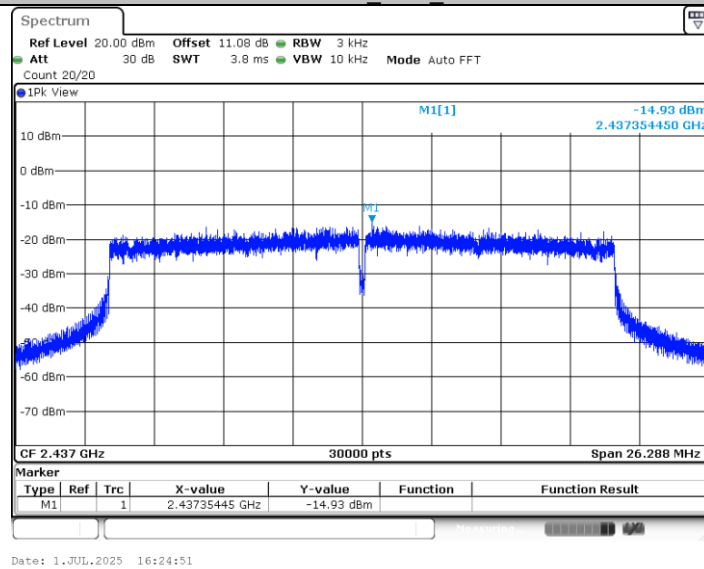
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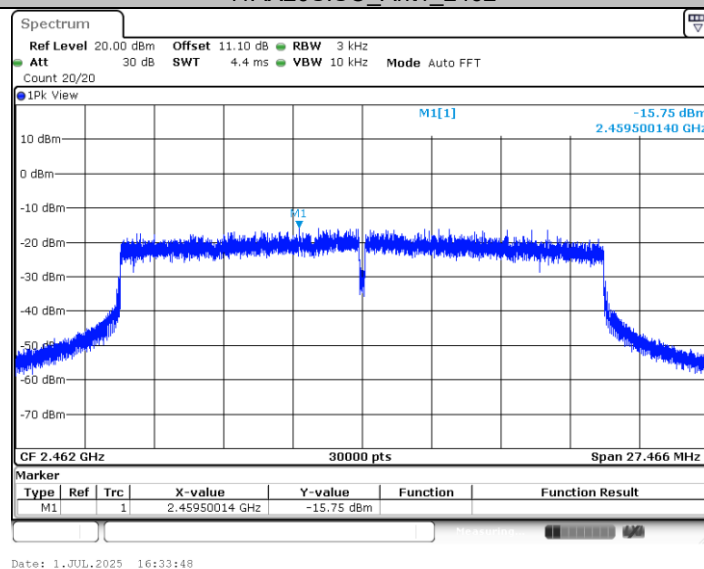
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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



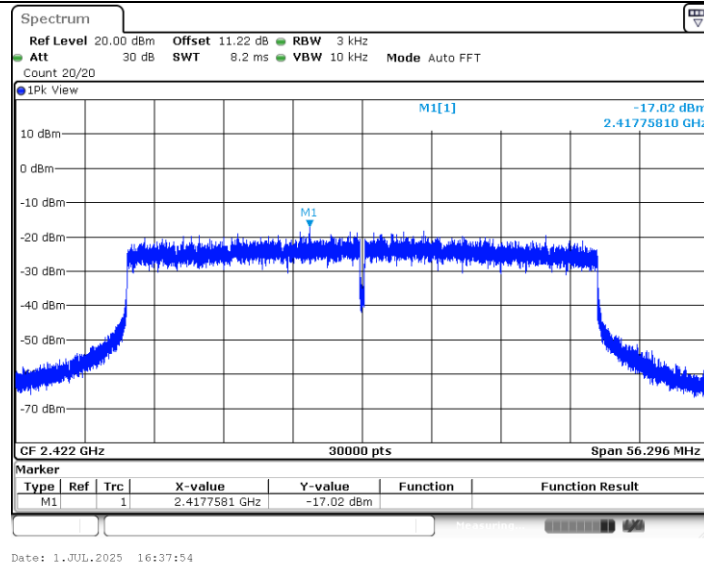
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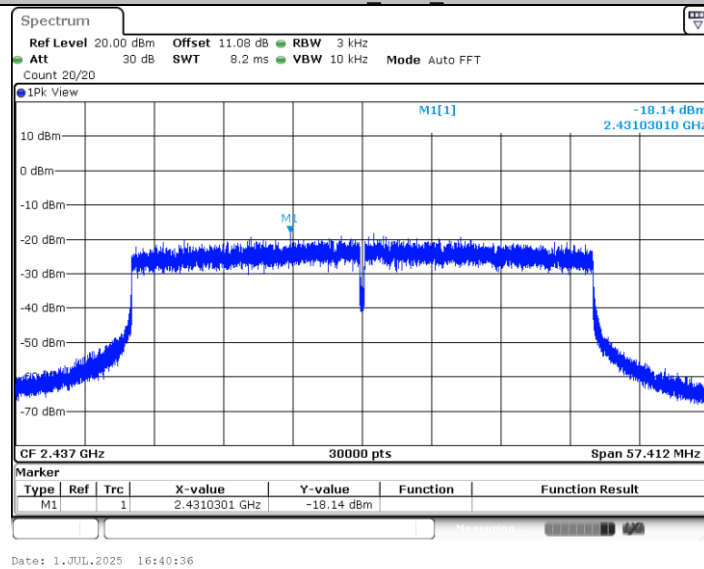
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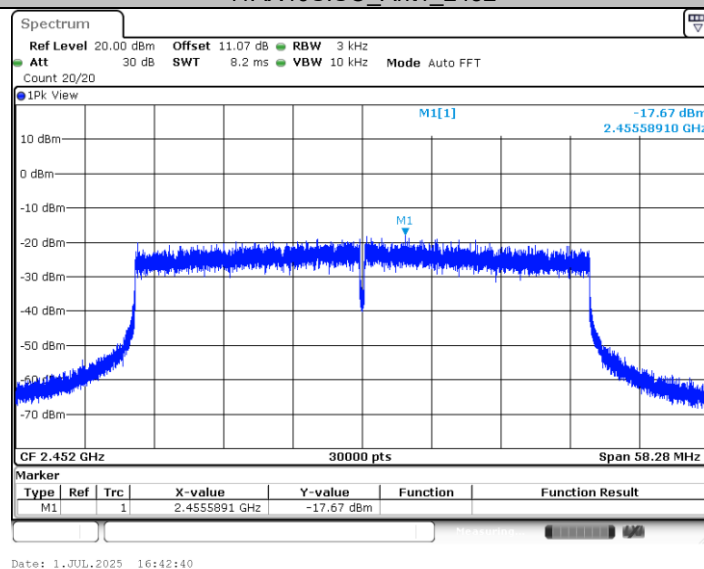
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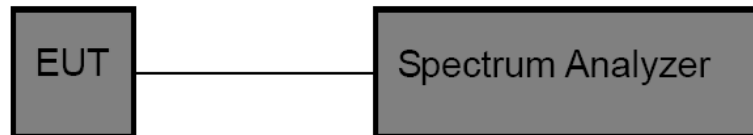


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	12.23	12.46	98.15	0.08	1
		2437	12.22	12.41	98.47	0.08	1
		2462	12.23	12.42	98.47	0.08	1
11G	Ant1	2412	1.90	2.06	92.23	0.53	1
		2437	2.03	2.21	91.86	0.49	1
		2462	2.03	2.15	94.42	0.49	1
11N20SISO	Ant1	2412	1.89	3.44	54.94	0.53	1
		2437	1.90	2.09	90.91	0.53	1
		2462	1.89	2.11	89.57	0.53	1
11N40SISO	Ant1	2422	0.93	1.10	84.55	1.08	2
		2437	0.94	1.16	81.03	1.06	2
		2452	0.93	1.11	83.78	1.08	2
11AX20SISO	Ant1	2412	1.46	1.64	89.02	0.68	1
		2437	1.46	1.65	88.48	0.68	1
		2462	1.46	1.62	90.12	0.68	1
11AX40SISO	Ant1	2422	0.76	0.92	82.61	1.32	2
		2437	0.76	0.94	80.85	1.32	2
		2452	0.77	0.93	82.80	1.30	2

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3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

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 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END OF REPORT*****