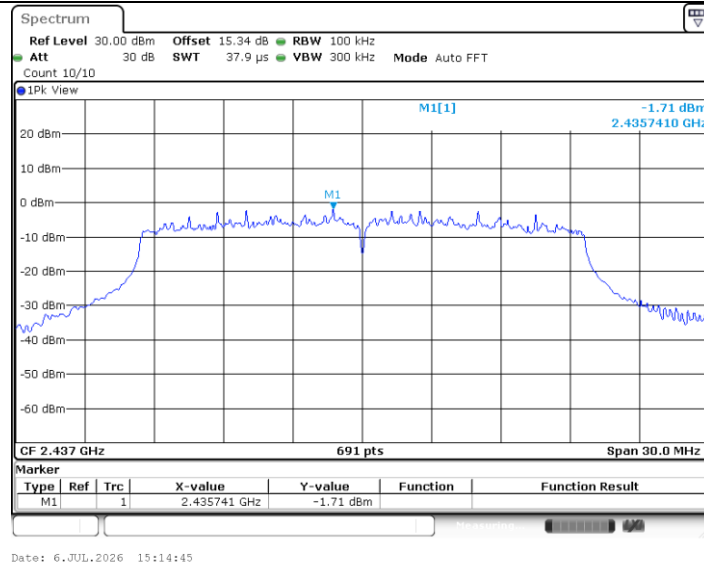
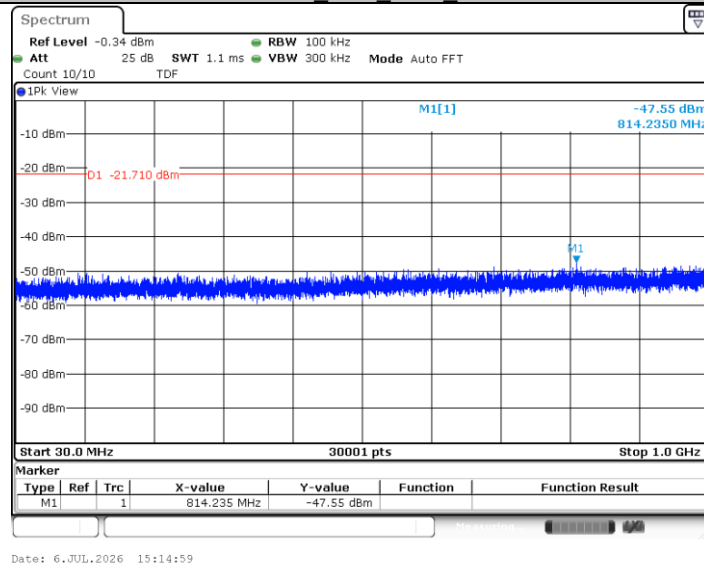
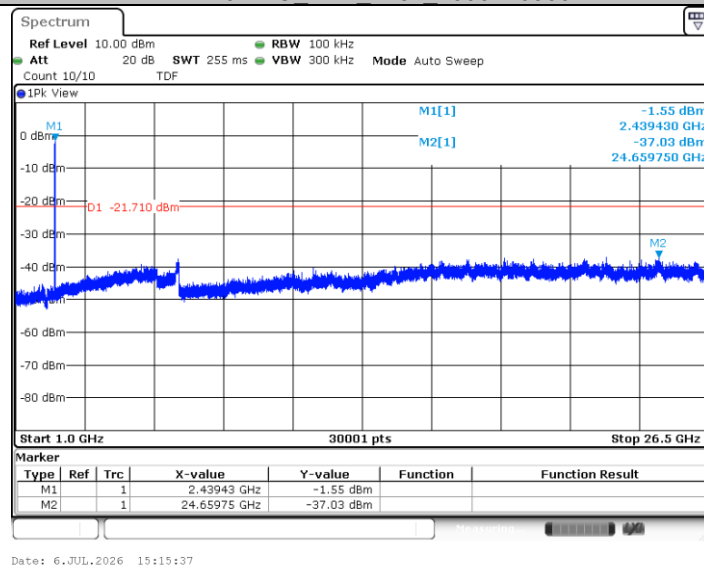




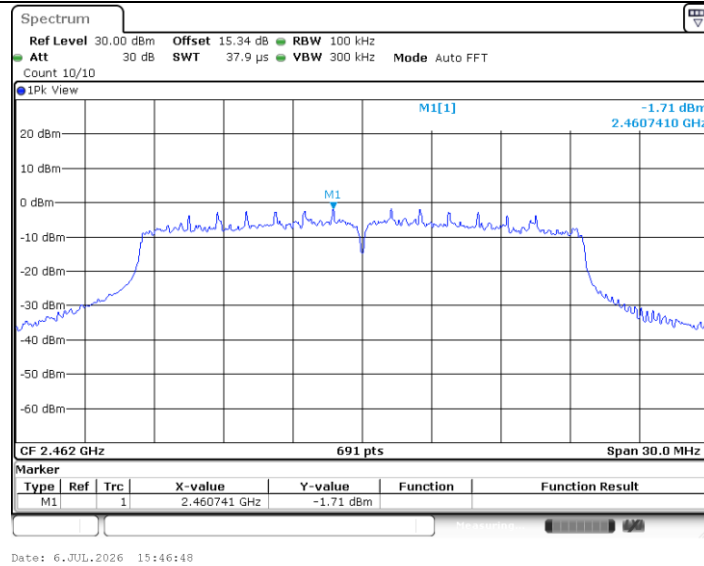
11AX20SISO Ant1 2437 30~1000



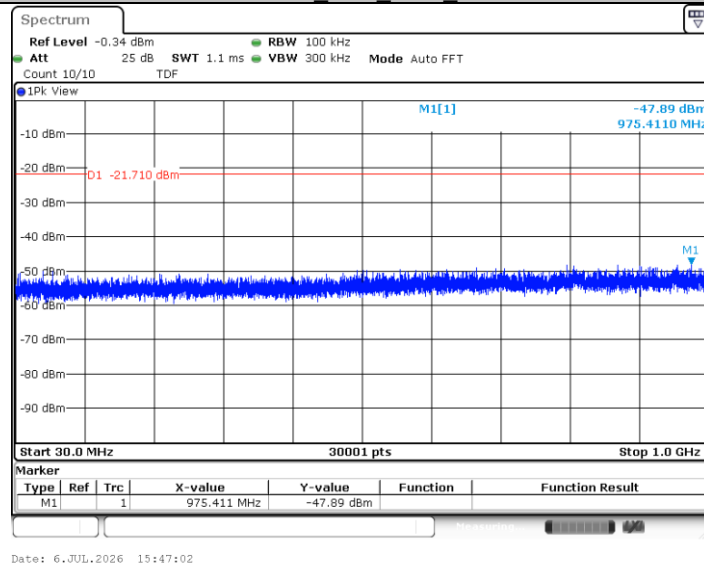
11AX20SISO Ant1 2437 1000~26500



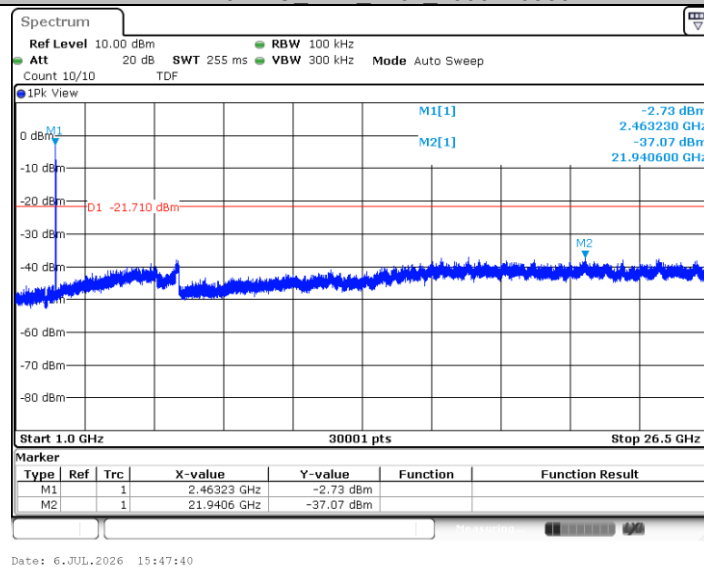
11AX20SISO Ant1 2462 0~Reference



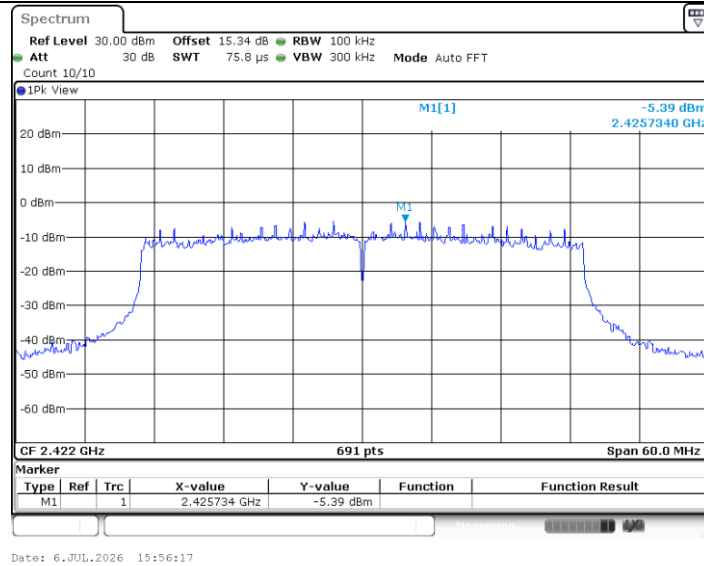
11AX20SISO Ant1 2462 30~1000



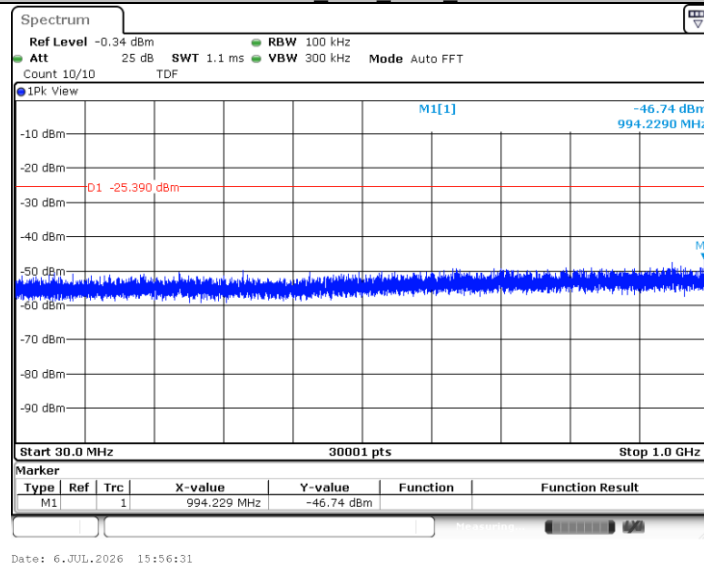
11AX20SISO Ant1 2462 1000~26500



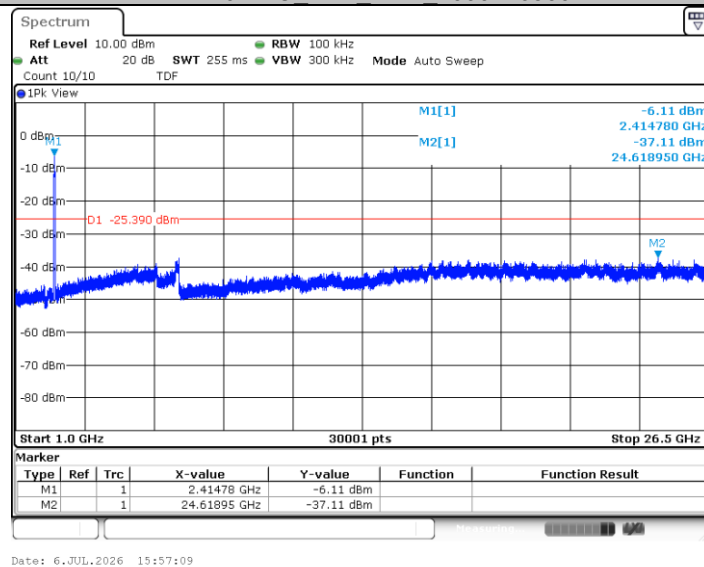
11AX40SISO Ant1 2422 0~Reference



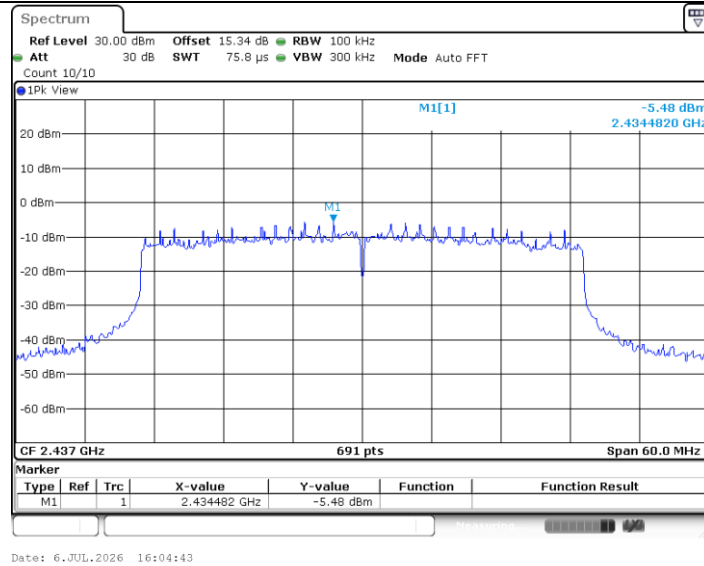
11AX40SISO Ant1 2422 30~1000



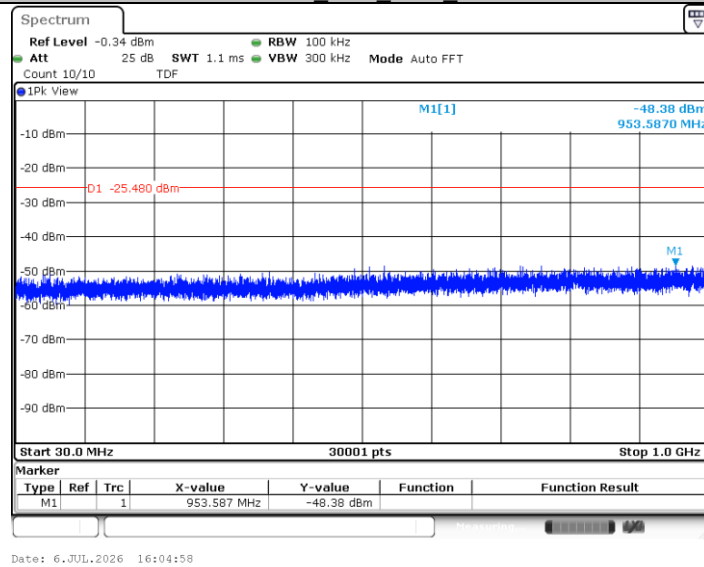
11AX40SISO Ant1 2422 1000~26500



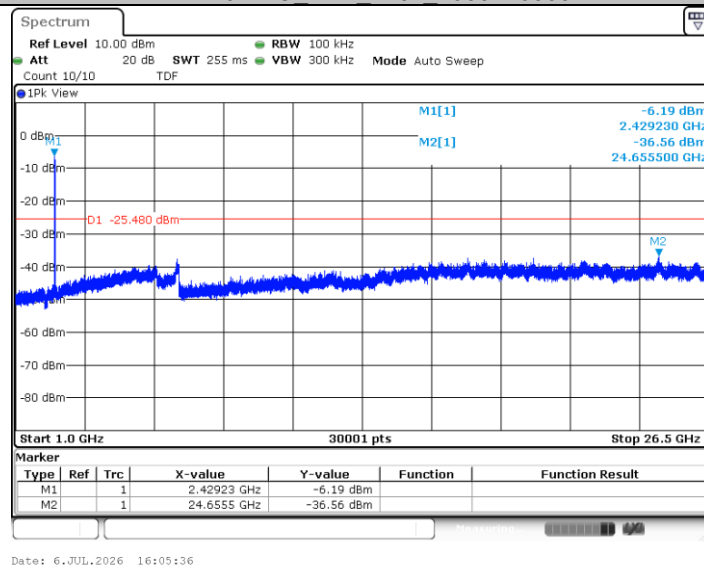
11AX40SISO Ant1 2437 0~Reference



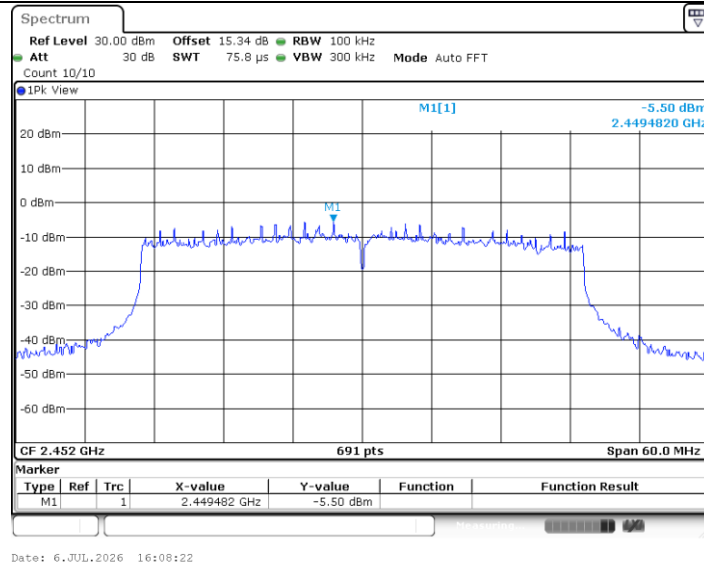
11AX40SISO Ant1 2437 30~1000



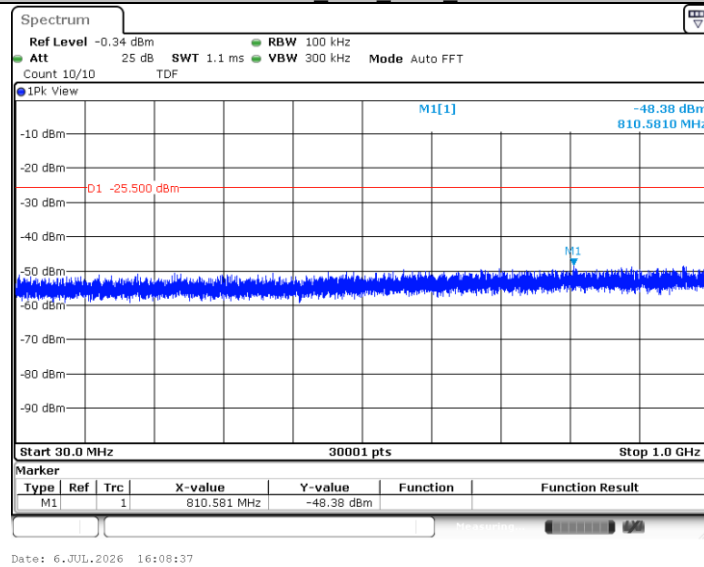
11AX40SISO Ant1 2437 1000~26500



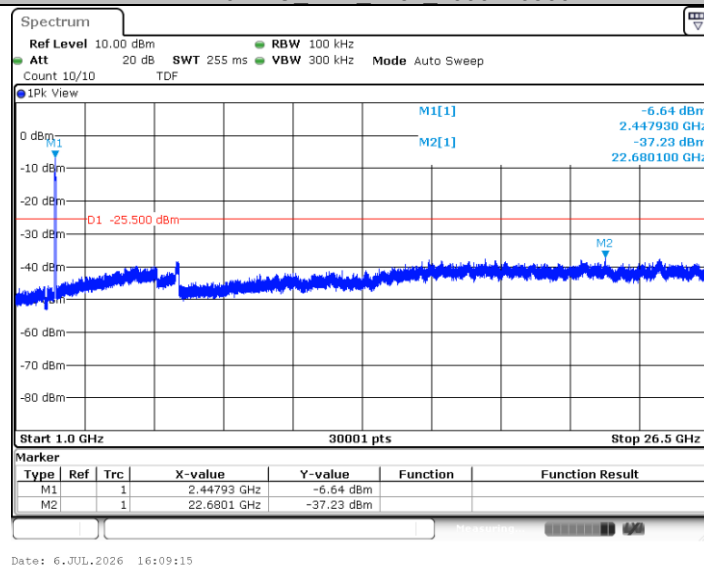
11AX40SISO Ant1 2452 0~Reference



11AX40SISO_Ant1_2452_30~1000



11AX40SISO_Ant1_2452_1000~26500



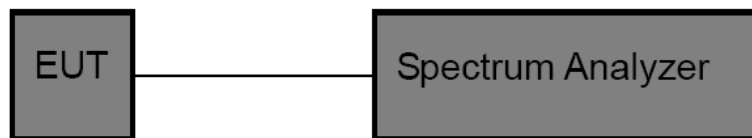
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 6.3.1(a)

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.

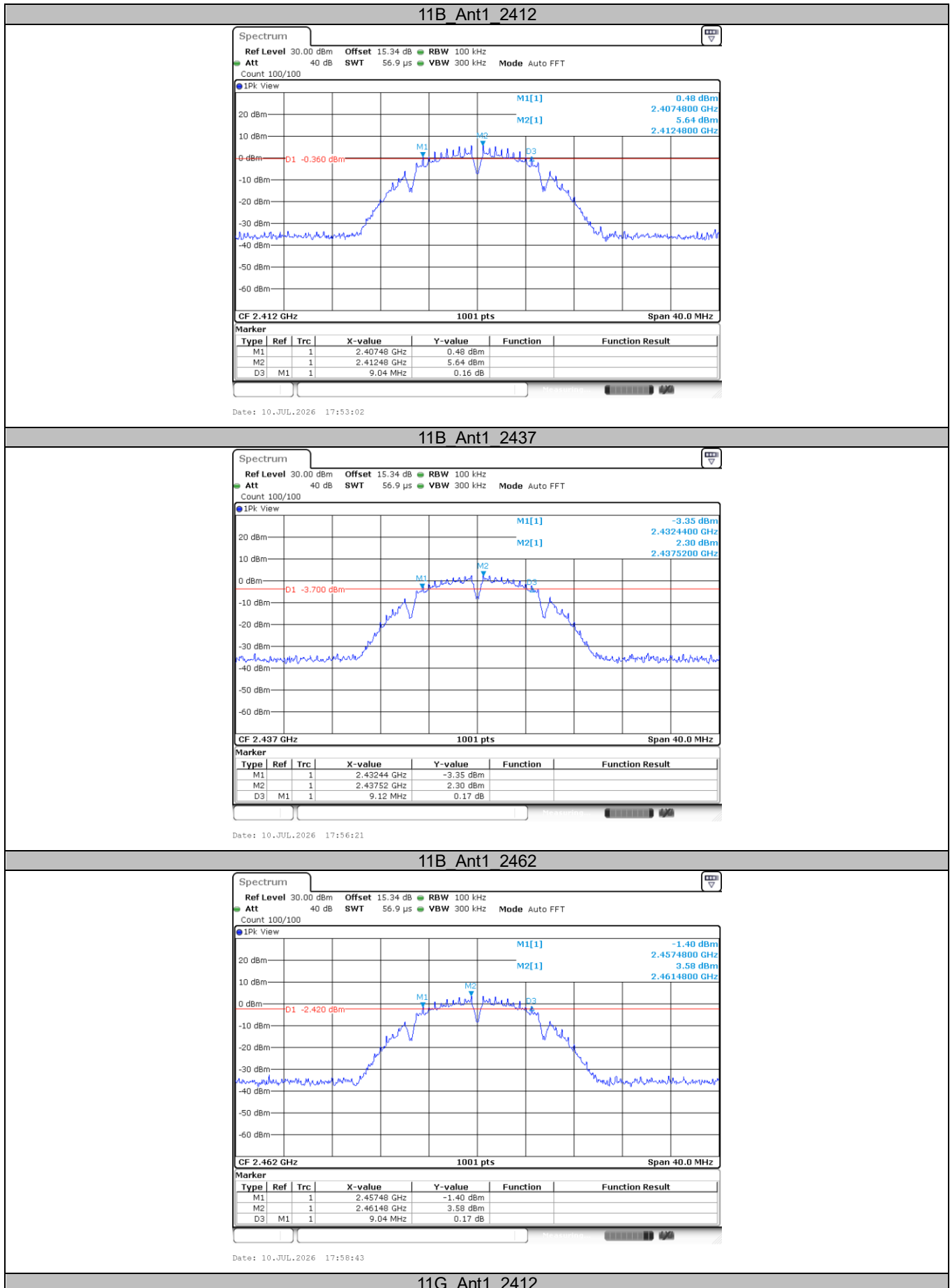
Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.387	9.04	2407.48	2416.52	0.5	PASS
		2437	13.506	9.12	2432.44	2441.56	0.5	PASS
		2462	13.467	9.04	2457.48	2466.52	0.5	PASS
11G	Ant1	2412	17.542	16.28	2403.84	2420.12	0.5	PASS
		2437	17.303	15.68	2429.44	2445.12	0.5	PASS
		2462	17.982	16.36	2453.80	2470.16	0.5	PASS
11N20SISO	Ant1	2412	18.901	17.60	2403.20	2420.80	0.5	PASS
		2437	18.901	16.28	2428.84	2445.12	0.5	PASS
		2462	18.901	16.28	2453.84	2470.12	0.5	PASS
11N40SISO	Ant1	2422	36.683	36.40	2403.76	2440.16	0.5	PASS
		2437	37.003	29.20	2421.96	2451.16	0.5	PASS
		2452	36.843	35.12	2434.40	2469.52	0.5	PASS
11AX20SISO	Ant1	2412	19.660	18.92	2402.48	2421.40	0.5	PASS
		2437	19.061	18.24	2427.84	2446.08	0.5	PASS
		2462	19.021	16.60	2453.24	2469.84	0.5	PASS
11AX40SISO	Ant1	2422	38.122	36.56	2403.04	2439.60	0.5	PASS
		2437	38.122	36.72	2418.68	2455.40	0.5	PASS
		2452	38.202	37.84	2433.20	2471.04	0.5	PASS

DTS Bandwidth Test plot as follows:

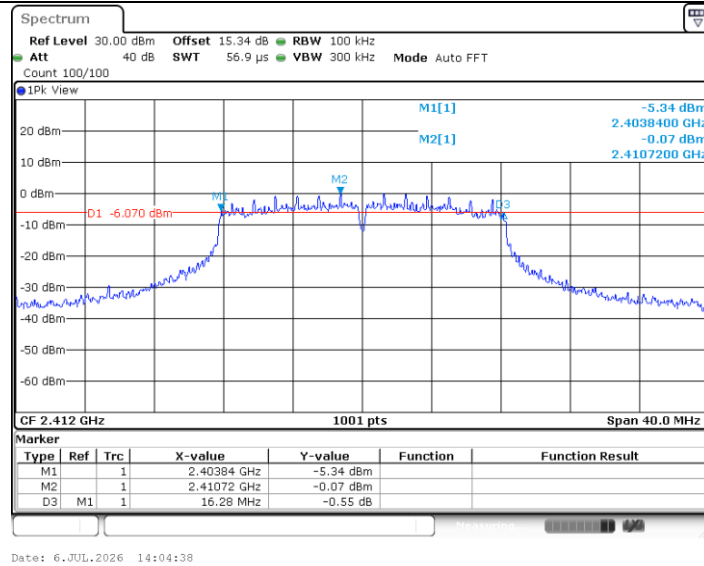


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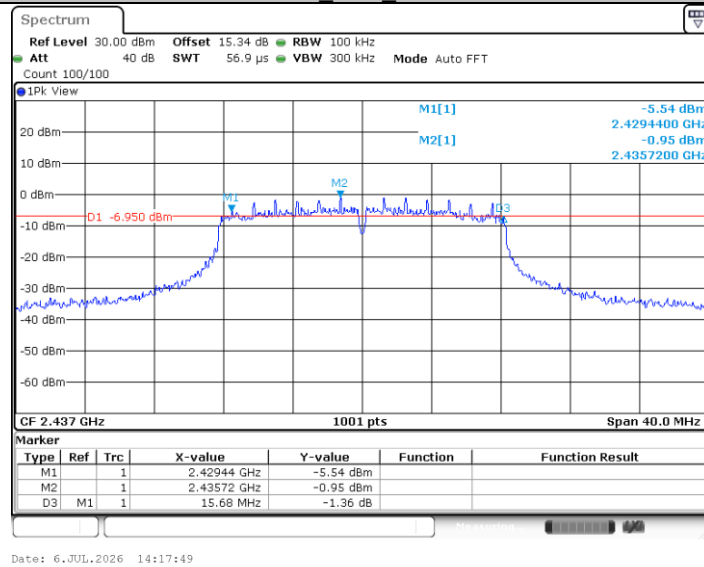
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Langqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

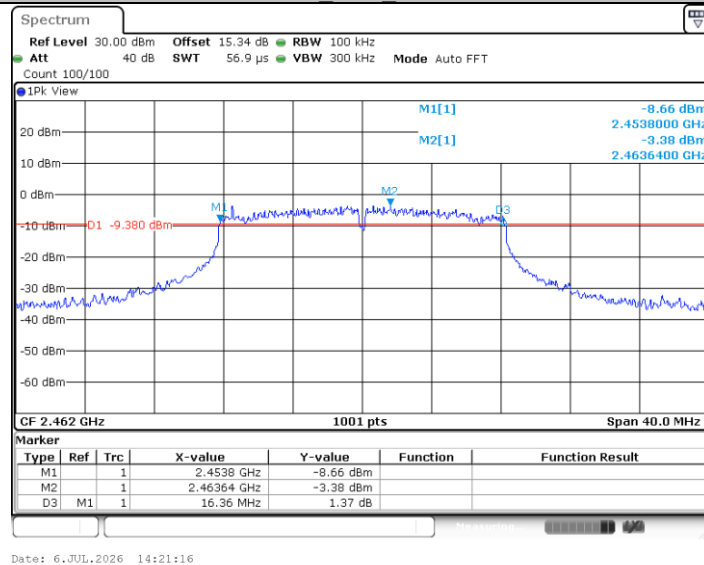
Master TRF : Dated 2026-06-01



11G Ant1 2437



11G Ant1 2462



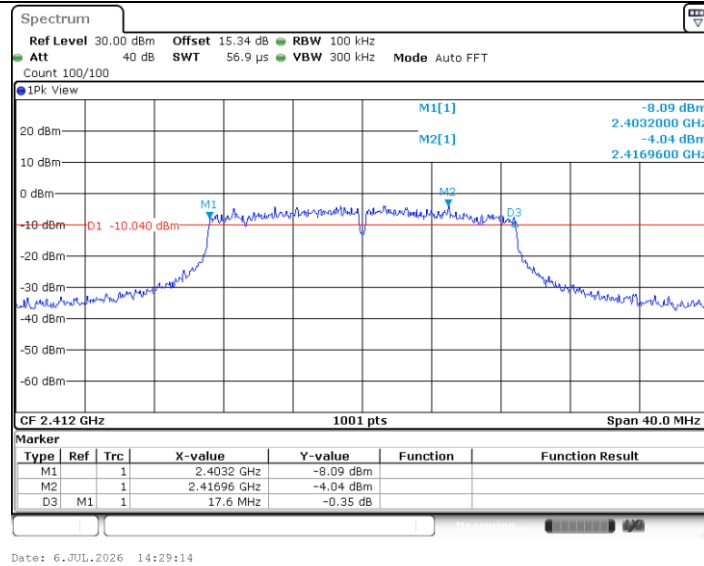
11N20SISO Ant1 2412

CTC Laboratories, Inc.

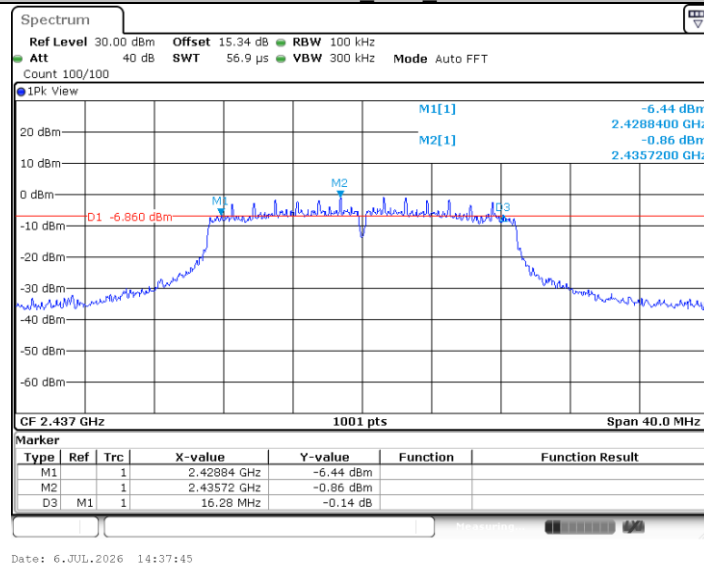
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Langqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

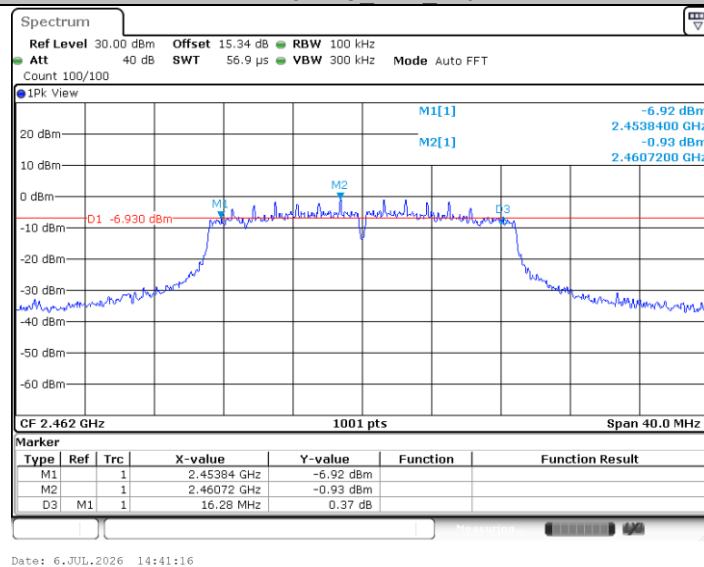
Master TRF : Dated 2026-06-01



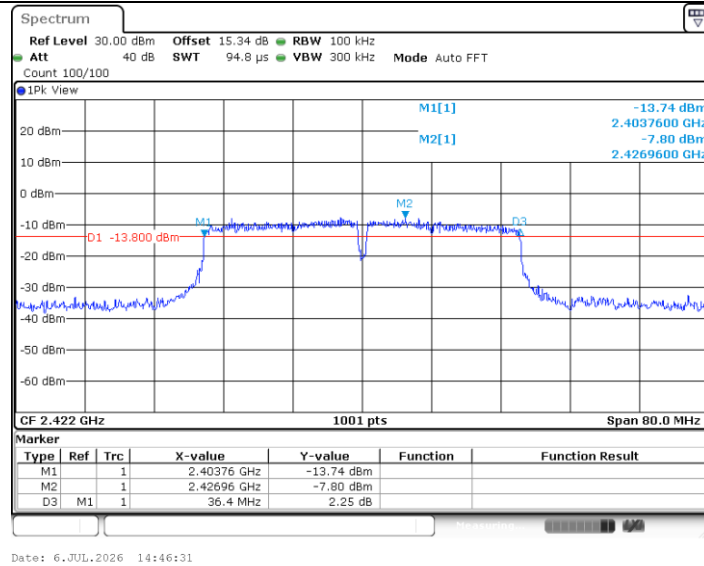
11N20SISO_Ant1_2437



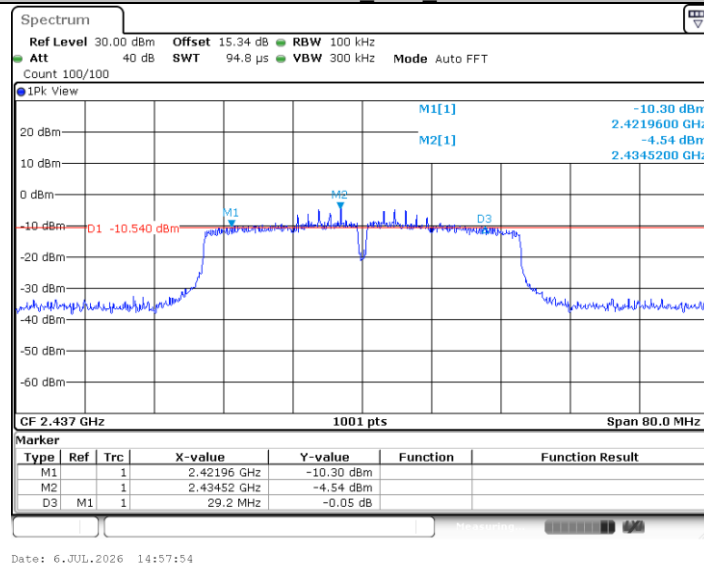
11N20SISO_Ant1_2462



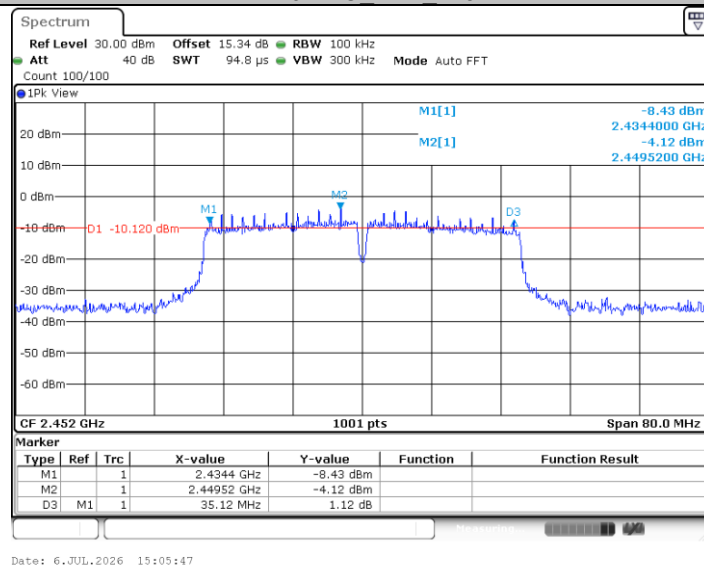
11N40SISO_Ant1_2422



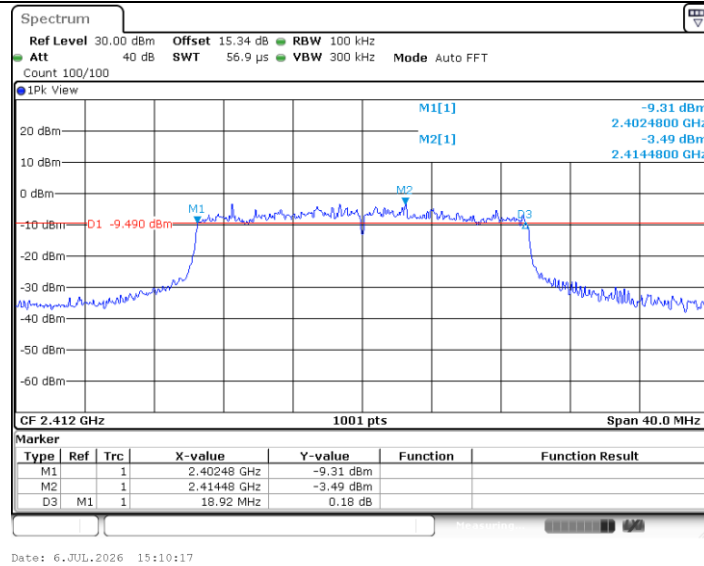
11N40SISO_Ant1_2437



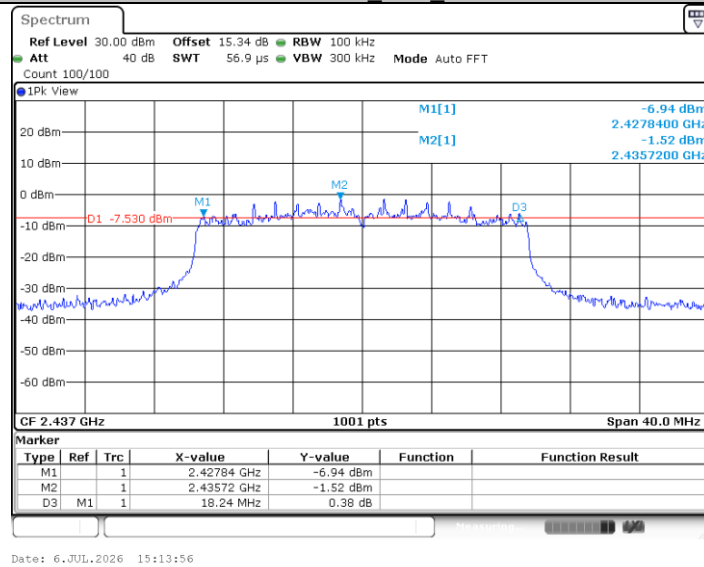
11N40SISO_Ant1_2452



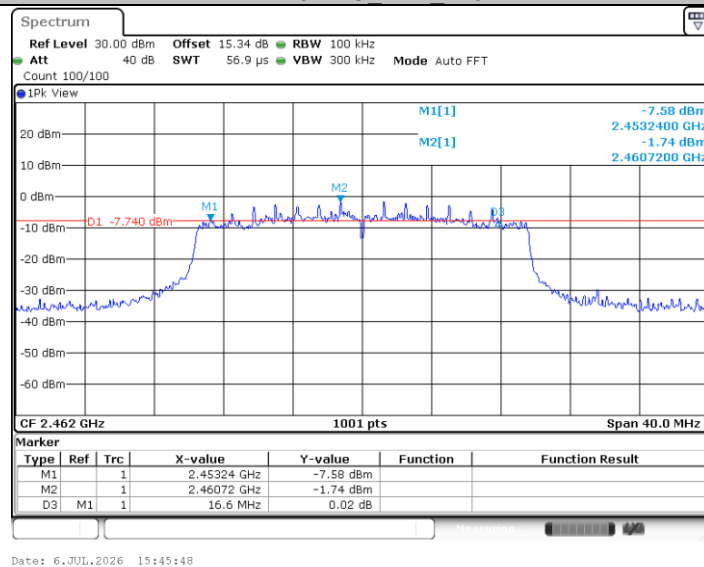
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



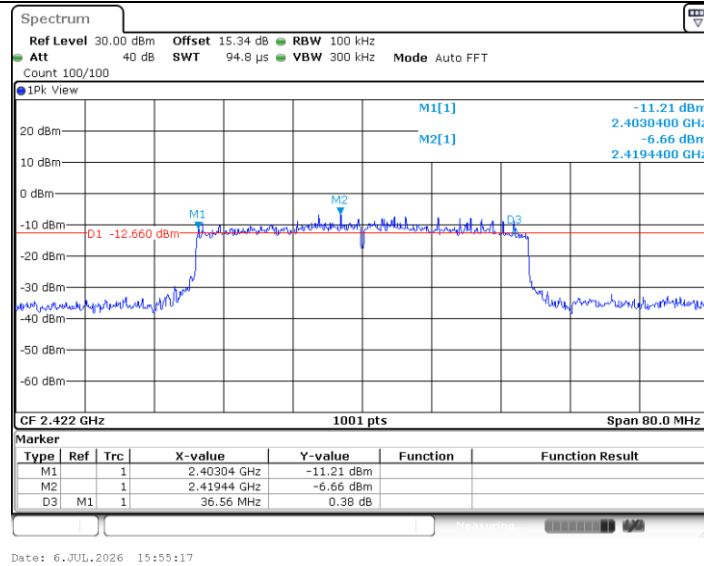
11AX40SISO_Ant1_2422

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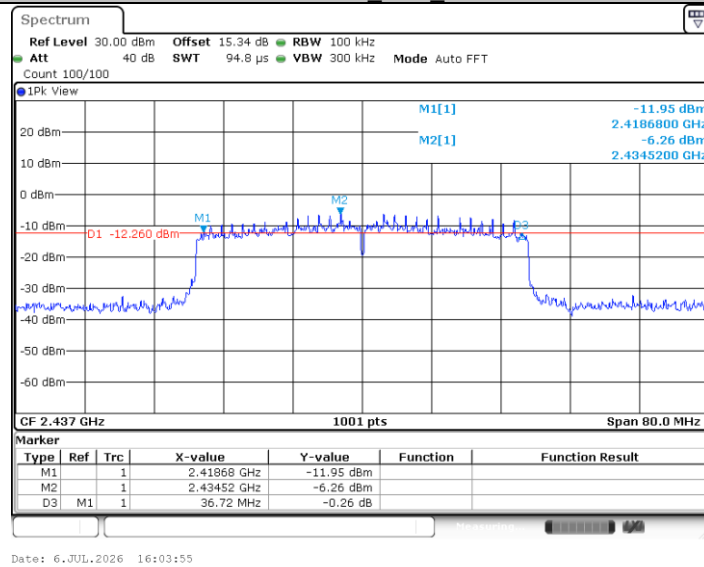
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

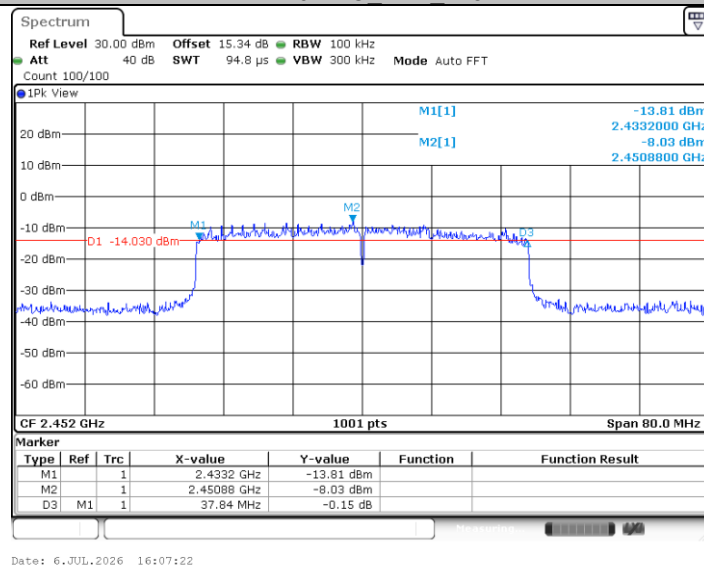
Master TRF : Dated 2026-06-01



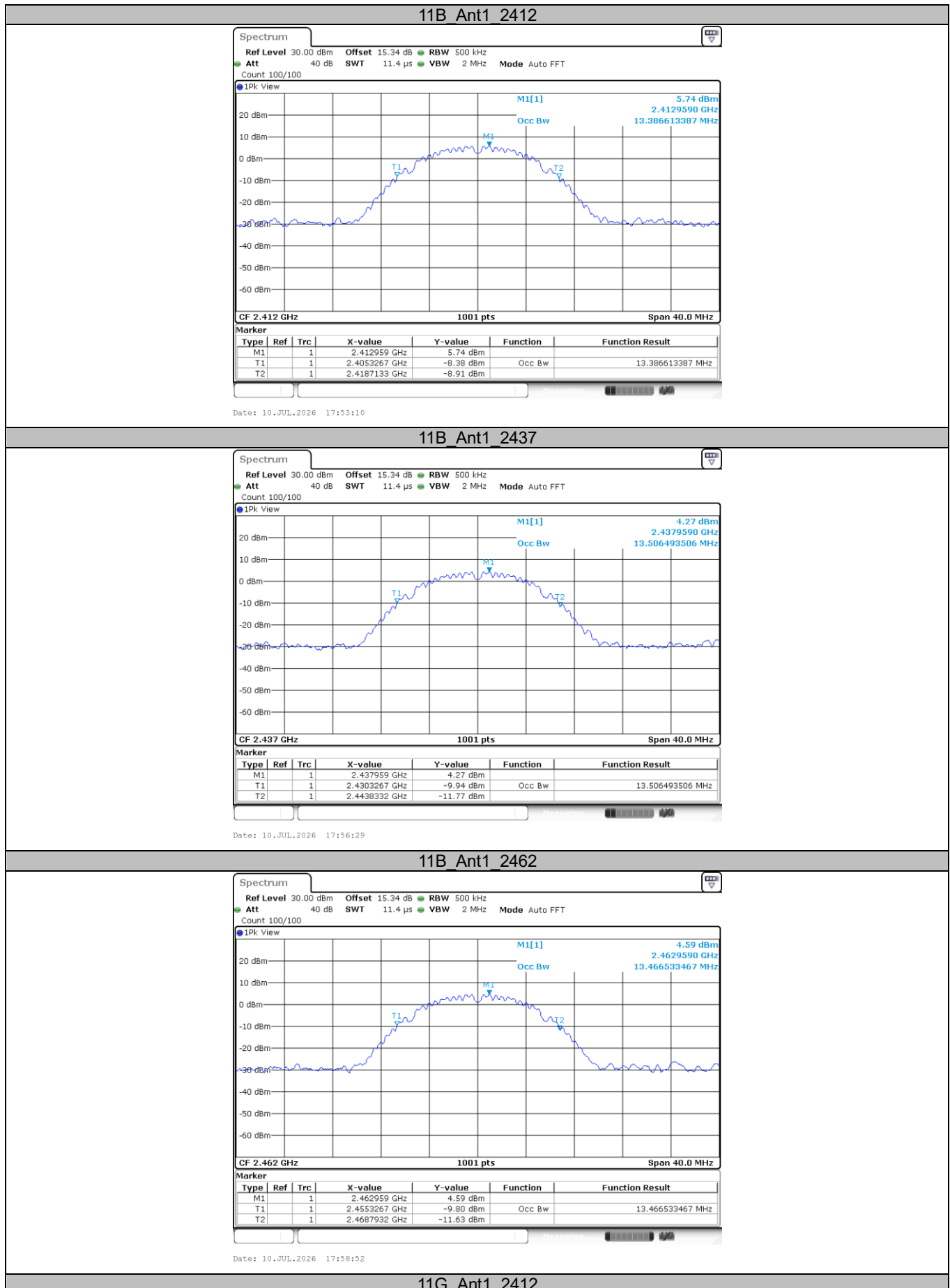
11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



99% Bandwidth Test plot as follows:

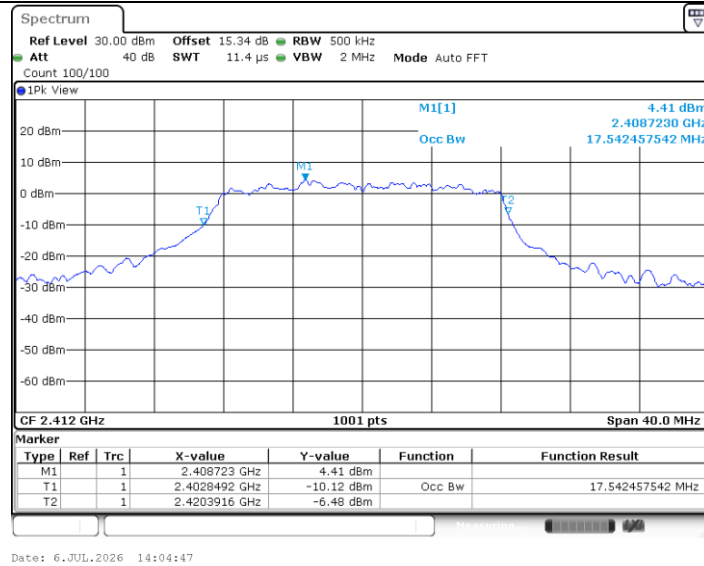


CTC Laboratories, Inc.

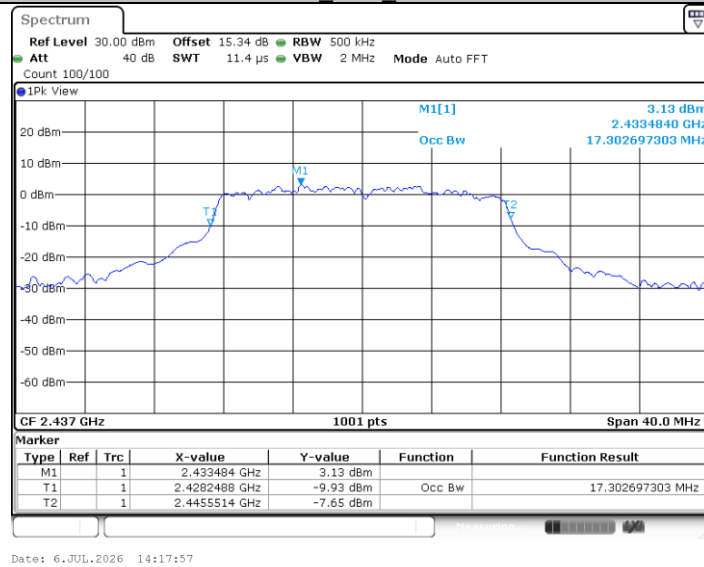
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

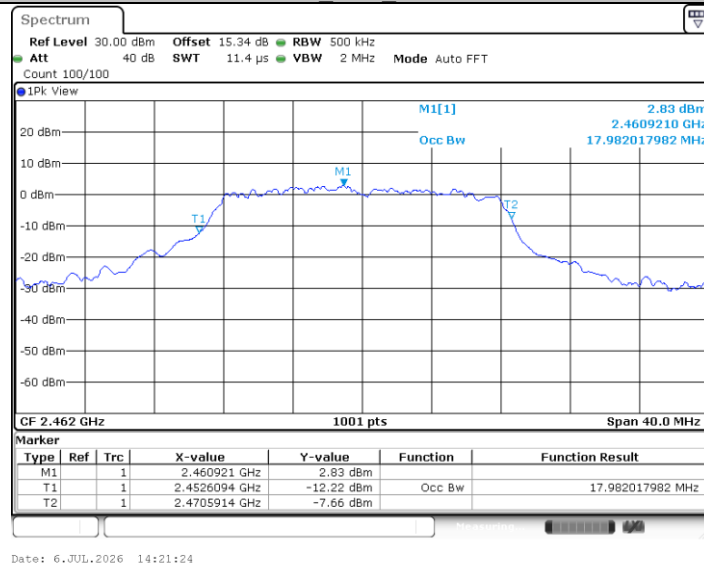
Master TRF : Dated 2026-06-01



11G Ant1 2437



11G Ant1 2462



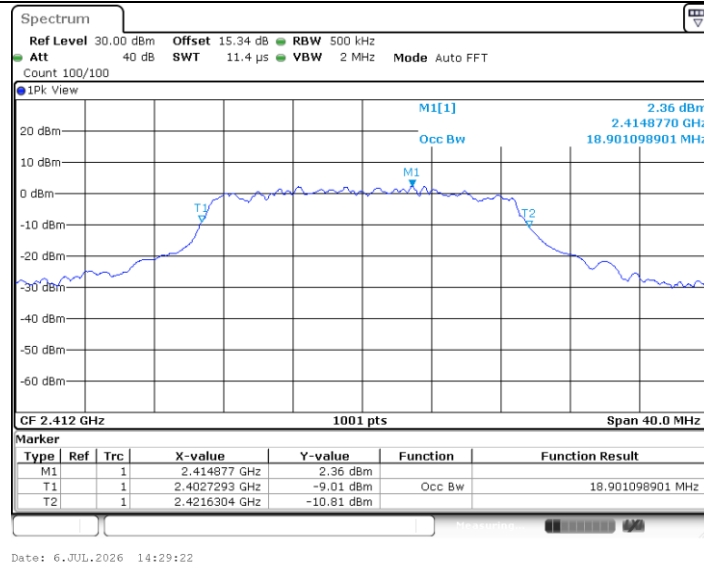
11N20SISO Ant1 2412

CTC Laboratories, Inc.

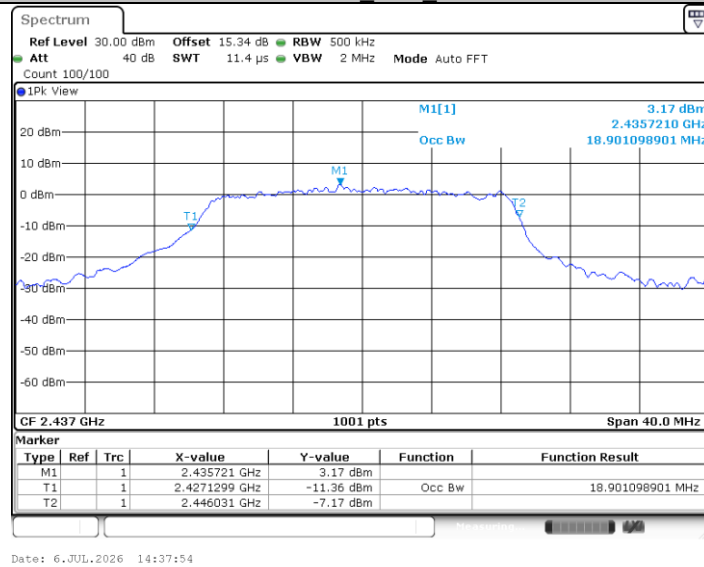
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

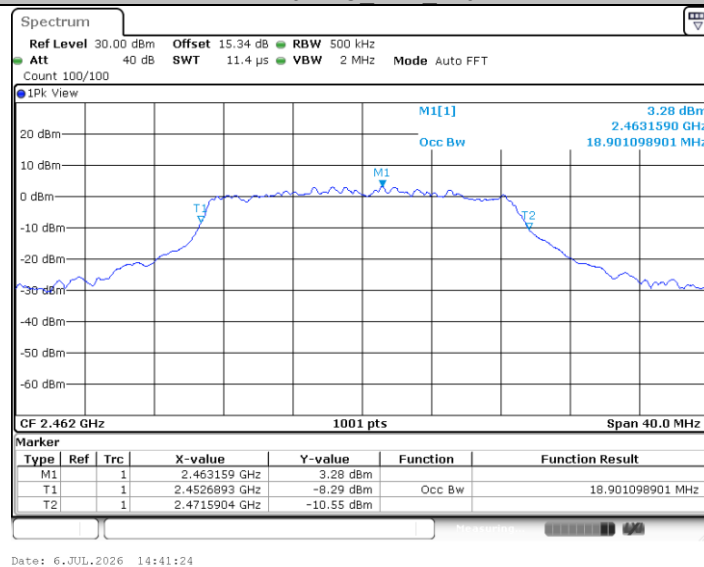
Master TRF : Dated 2026-06-01



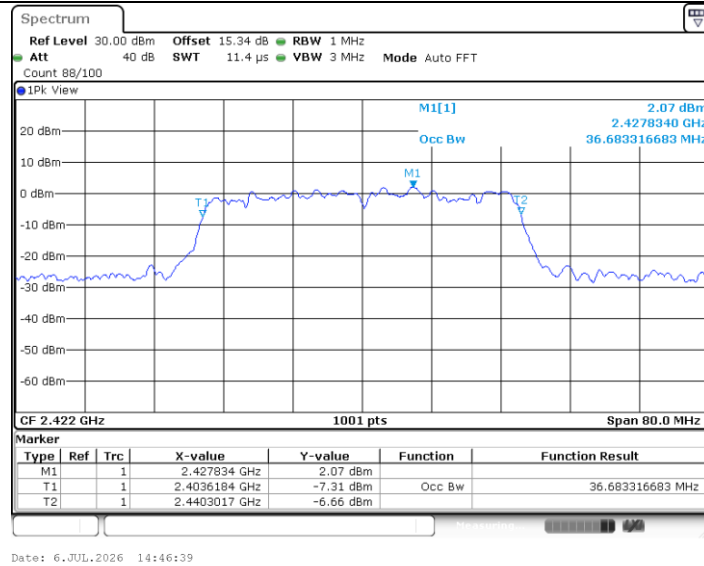
11N20SISO Ant1 2437



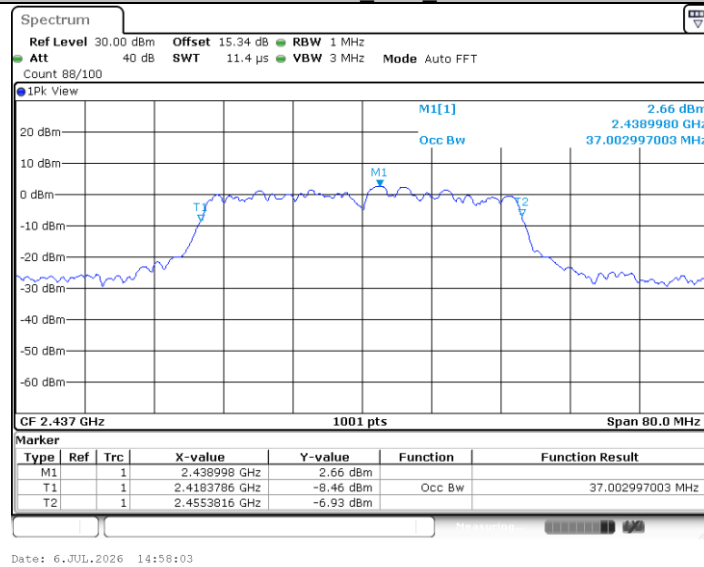
11N20SISO Ant1 2462



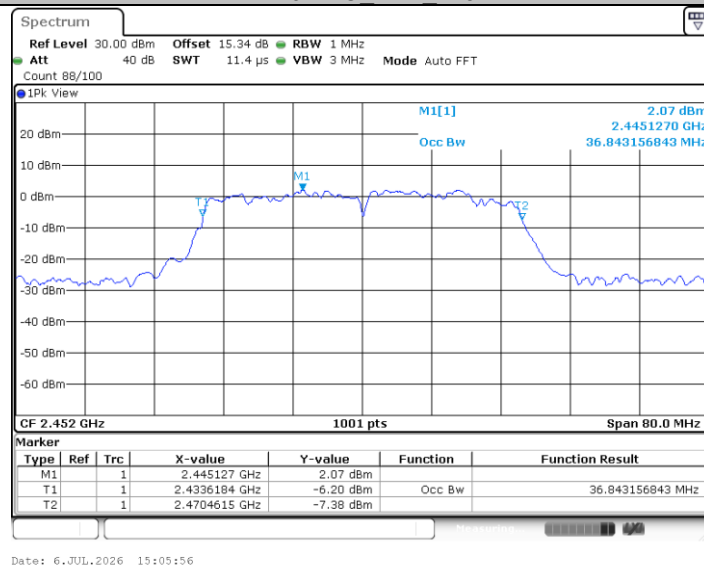
11N40SISO Ant1 2422



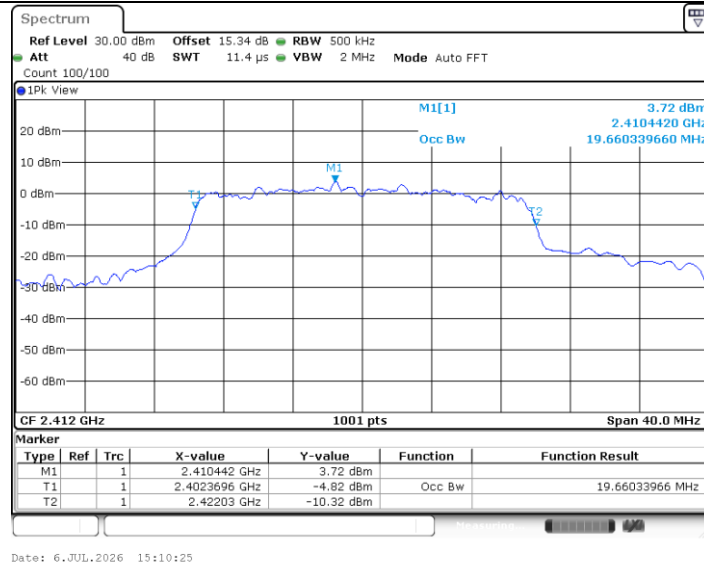
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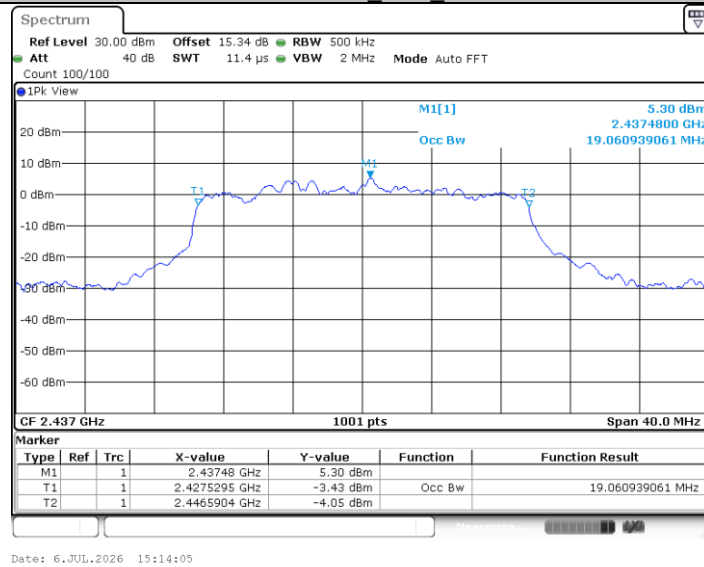
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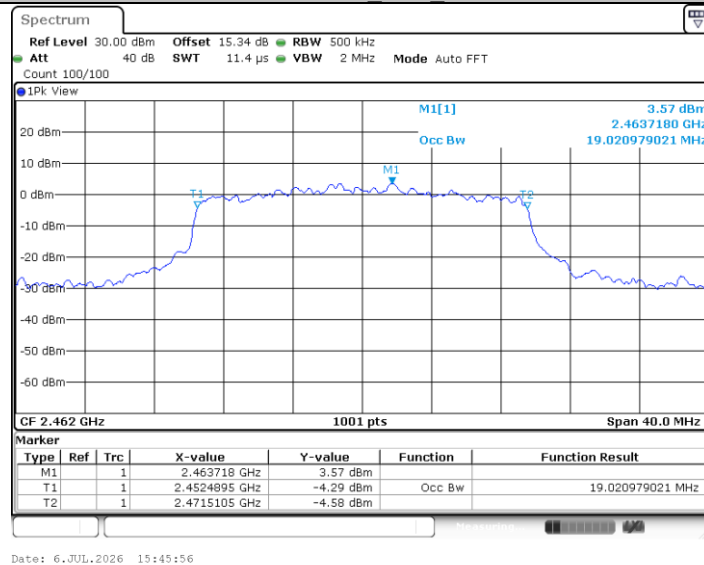
11AX20SISO_Ant1_2412



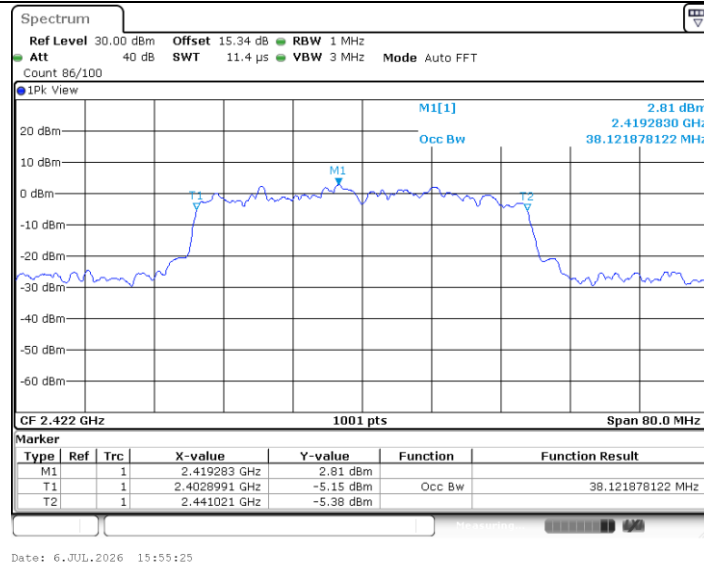
11AX20SISO_Ant1_2437



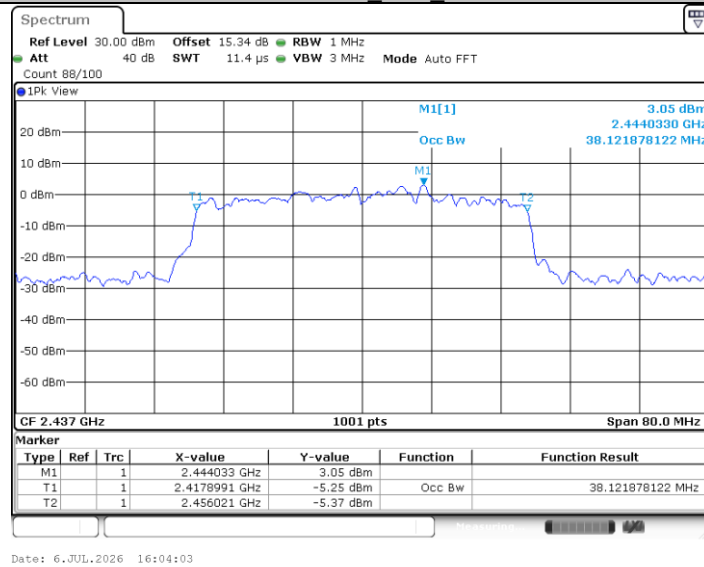
11AX20SISO_Ant1_2462



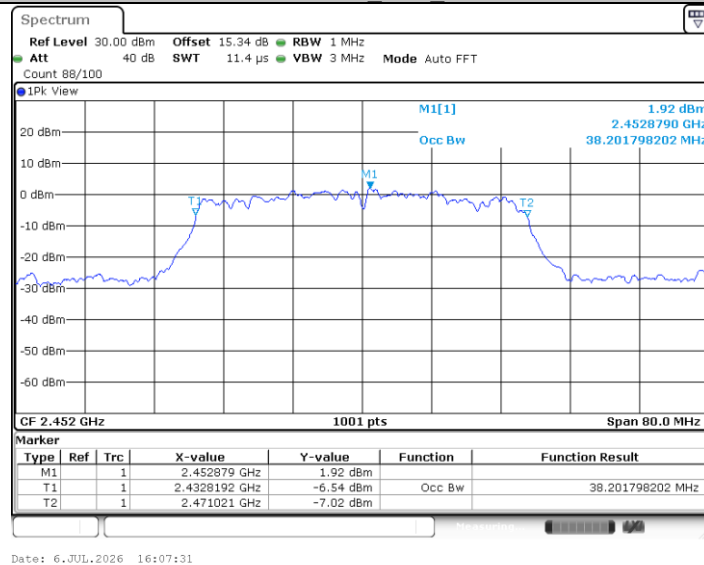
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



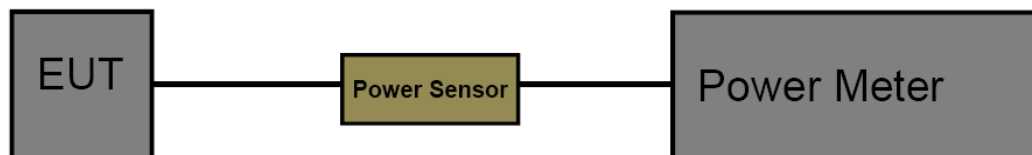
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 6.3.2

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 6.3.2	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
	EIRP	4 Watt or 36dBm	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]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	16.79	≤30.00	2.56	19.35	≤36.00	PASS
		2437	15.36	≤30.00	2.56	17.92	≤36.00	PASS
		2462	15.60	≤30.00	2.56	18.16	≤36.00	PASS
11G	Ant1	2412	17.82	≤30.00	2.56	20.38	≤36.00	PASS
		2437	17.68	≤30.00	2.56	20.24	≤36.00	PASS
		2462	18.22	≤30.00	2.56	20.78	≤36.00	PASS
11N20SISO	Ant1	2412	17.26	≤30.00	2.56	19.82	≤36.00	PASS
		2437	17.52	≤30.00	2.56	20.08	≤36.00	PASS
		2462	17.96	≤30.00	2.56	20.52	≤36.00	PASS
11N40SISO	Ant1	2422	16.75	≤30.00	2.56	19.31	≤36.00	PASS
		2437	17.01	≤30.00	2.56	19.57	≤36.00	PASS
		2452	17.21	≤30.00	2.56	19.77	≤36.00	PASS
11AX20SISO	Ant1	2412	17.90	≤30.00	2.56	20.46	≤36.00	PASS
		2437	17.74	≤30.00	2.56	20.3	≤36.00	PASS
		2462	17.09	≤30.00	2.56	19.65	≤36.00	PASS
11AX40SISO	Ant1	2422	16.57	≤30.00	2.56	19.13	≤36.00	PASS
		2437	16.48	≤30.00	2.56	19.04	≤36.00	PASS
		2452	16.26	≤30.00	2.56	18.82	≤36.00	PASS

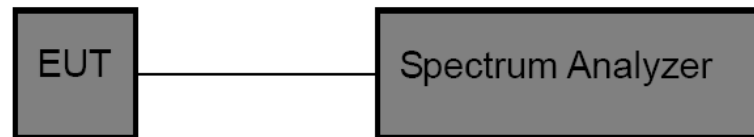
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 6.3.1(b)

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.

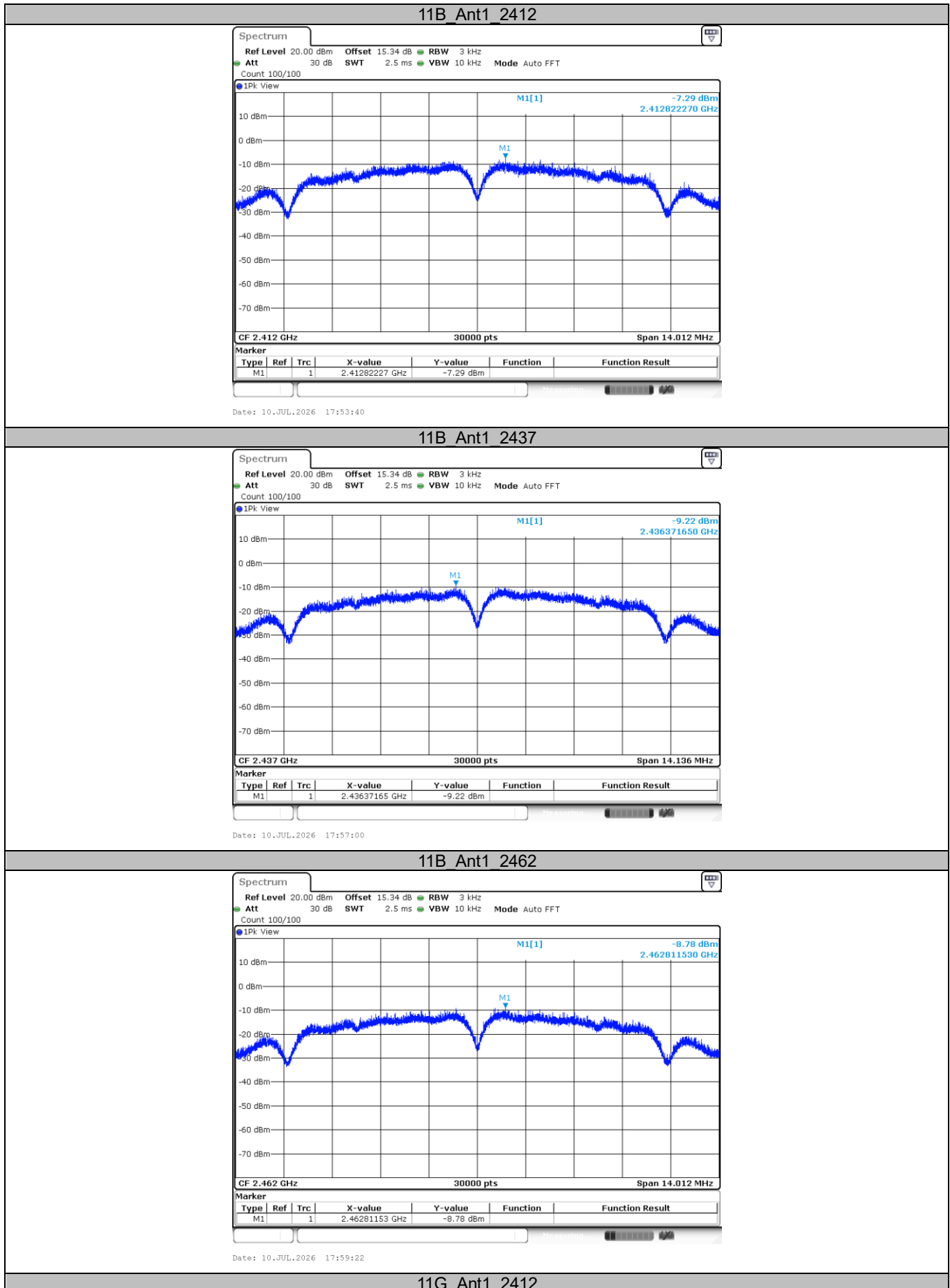
Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Frequency [MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.29	≤8.00	PASS
		2437	-9.22	≤8.00	PASS
		2462	-8.78	≤8.00	PASS
11G	Ant1	2412	-14.25	≤8.00	PASS
		2437	-14.80	≤8.00	PASS
		2462	-14.36	≤8.00	PASS
11N20SISO	Ant1	2412	-14.81	≤8.00	PASS
		2437	-13.68	≤8.00	PASS
		2462	-13.35	≤8.00	PASS
11N40SISO	Ant1	2422	-17.87	≤8.00	PASS
		2437	-17.55	≤8.00	PASS
		2452	-17.43	≤8.00	PASS
11AX20SISO	Ant1	2412	-15.42	≤8.00	PASS
		2437	-15.53	≤8.00	PASS
		2462	-15.97	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.82	≤8.00	PASS
		2437	-20.10	≤8.00	PASS
		2452	-19.93	≤8.00	PASS

Test plot as follows:

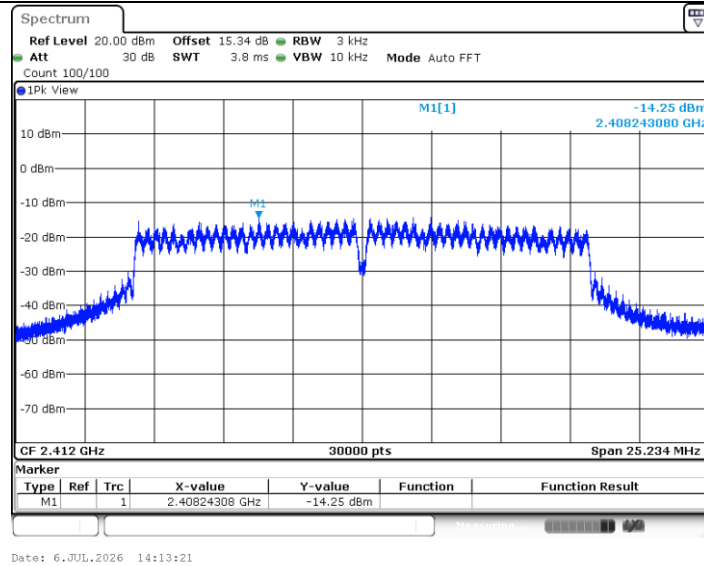


CTC Laboratories, Inc.

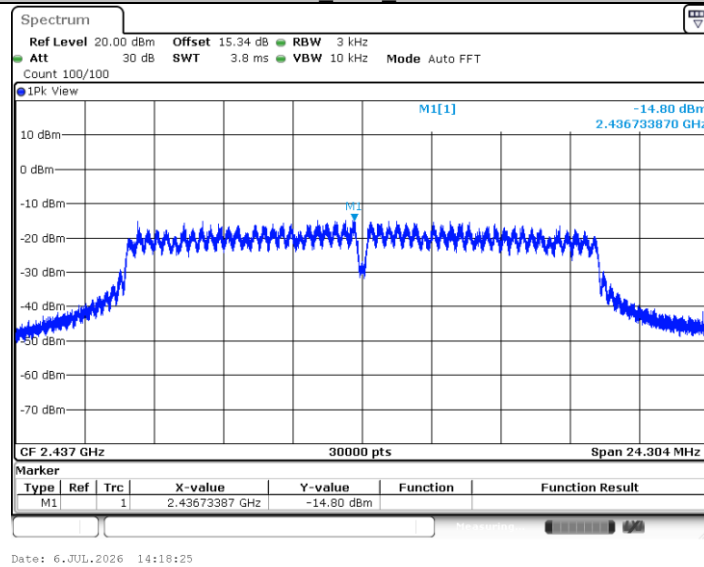
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-057_A5

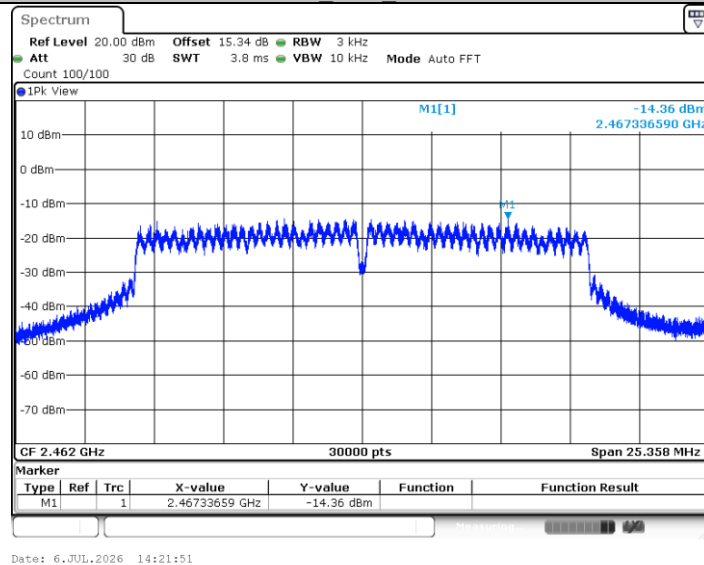
Master TRF : Dated 2026-06-01



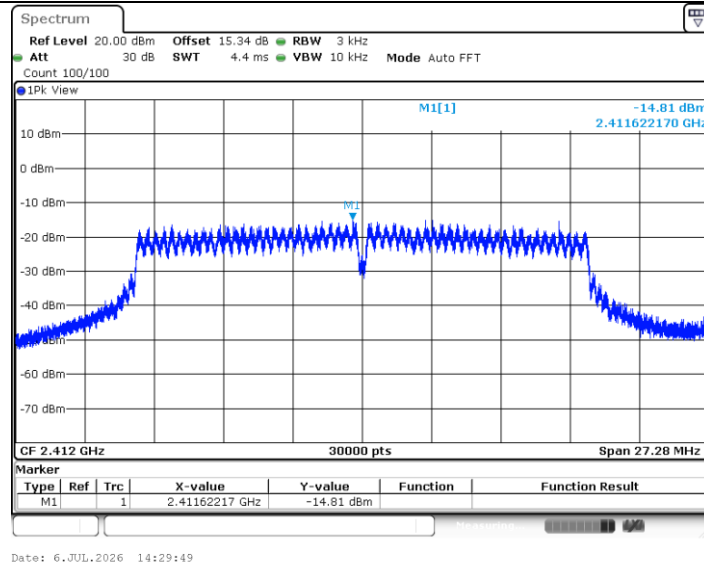
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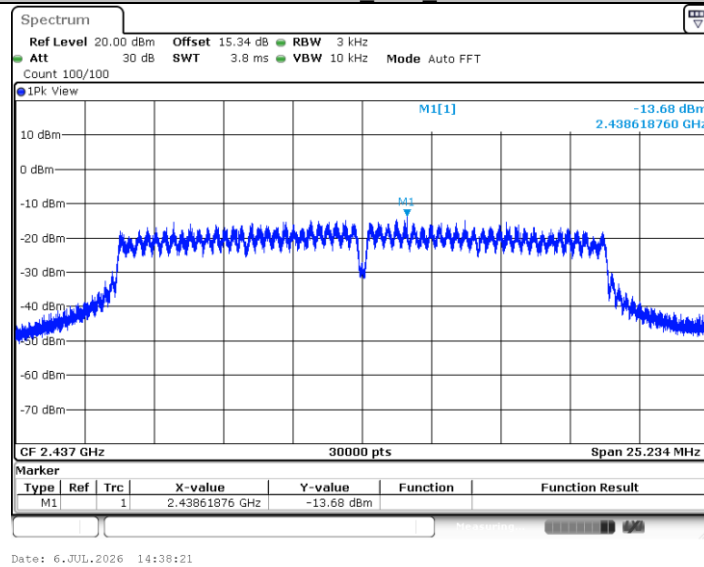
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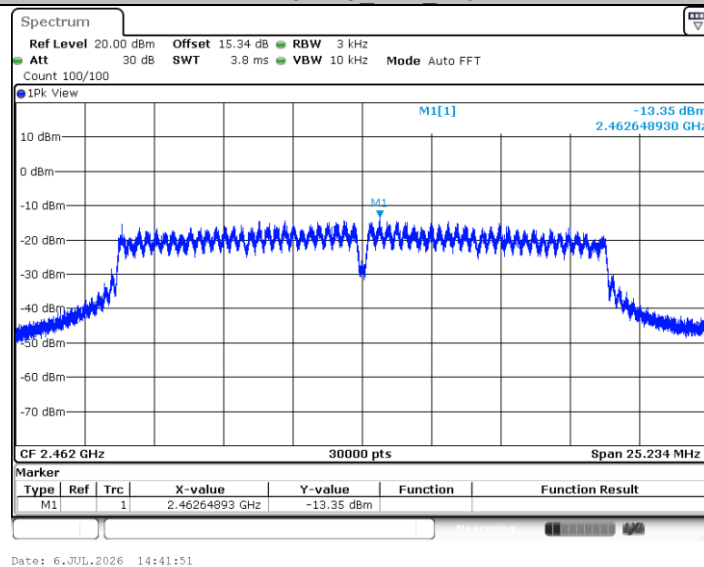
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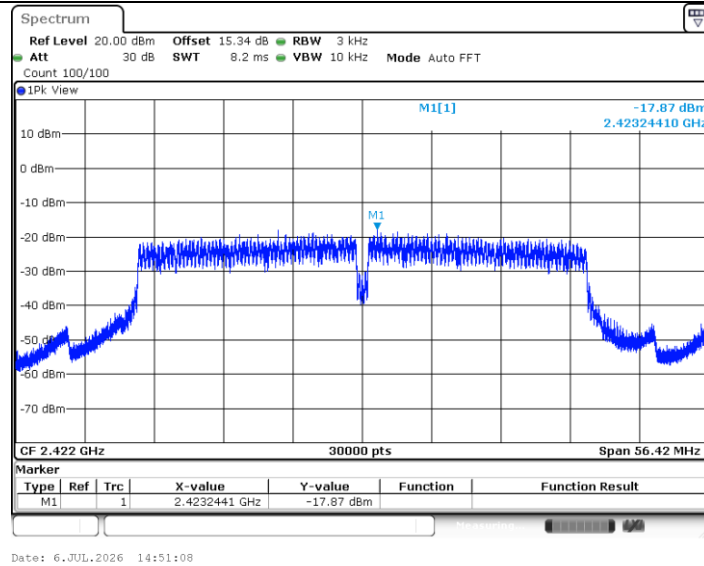
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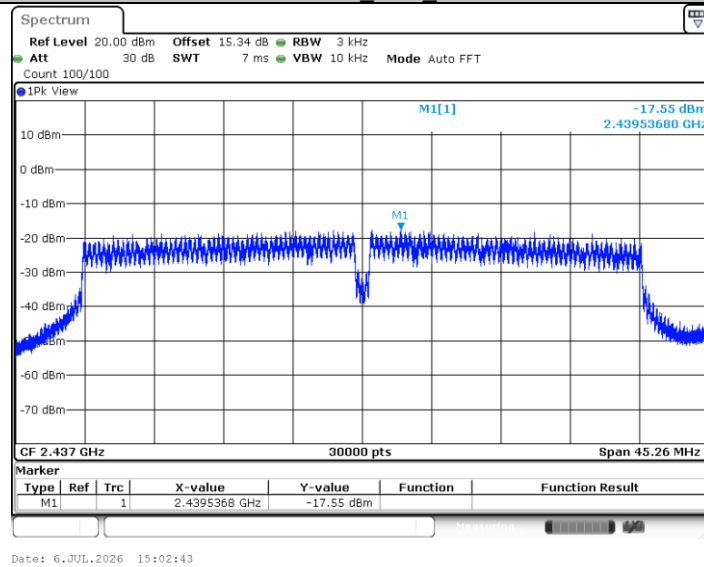
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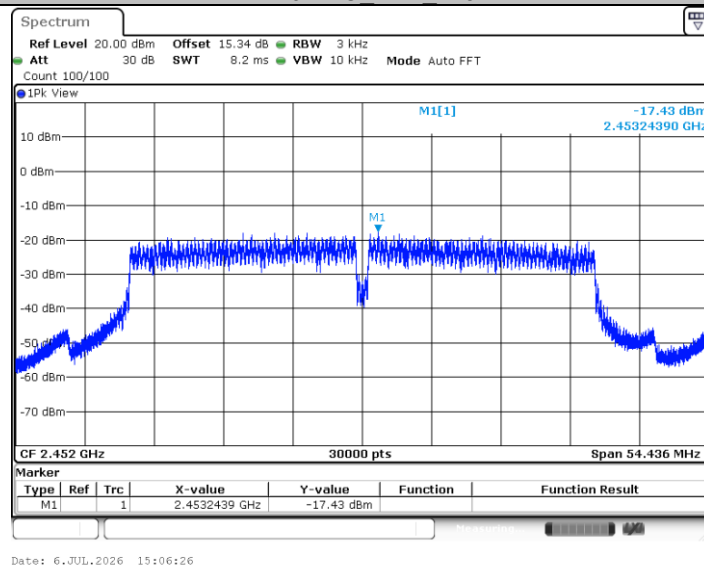
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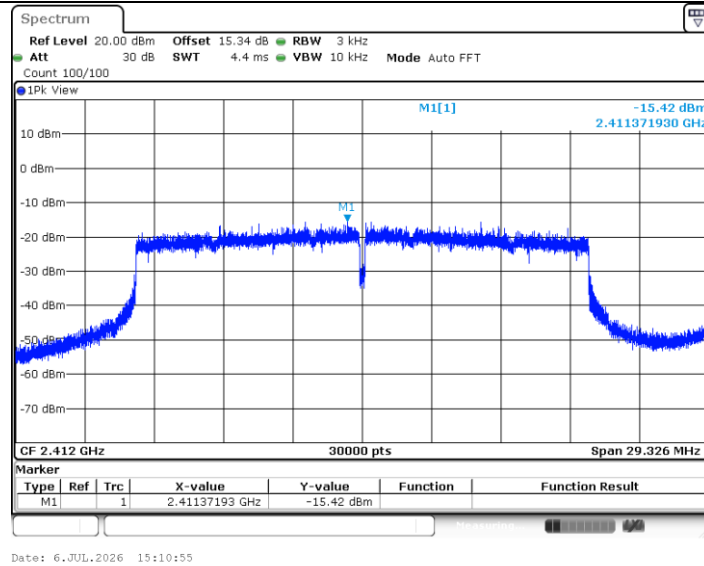
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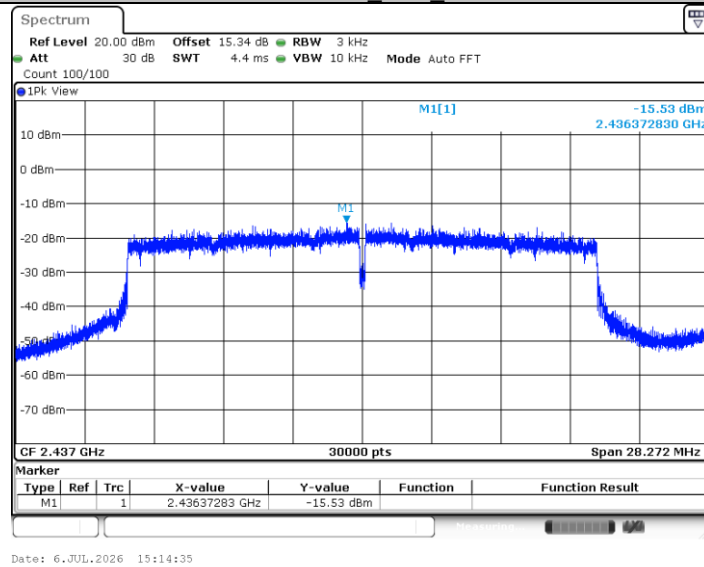
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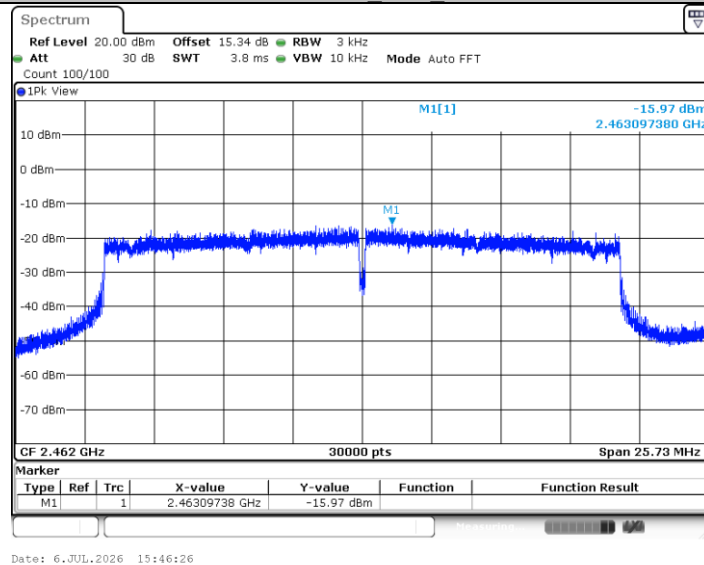
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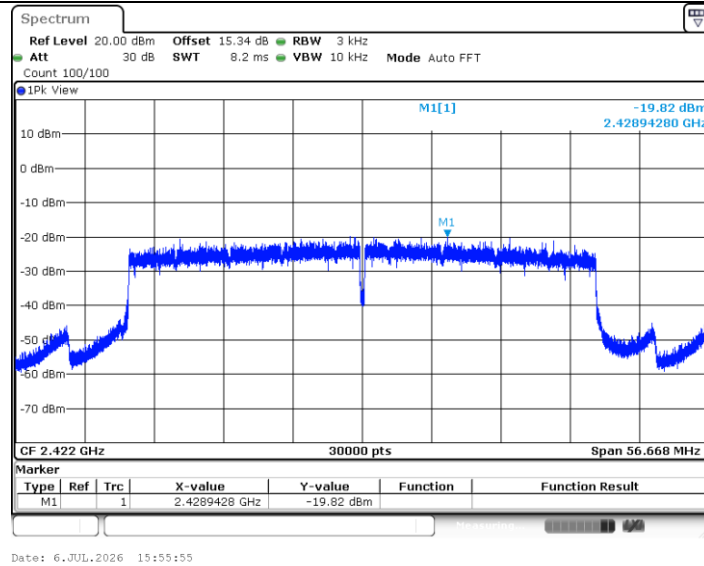
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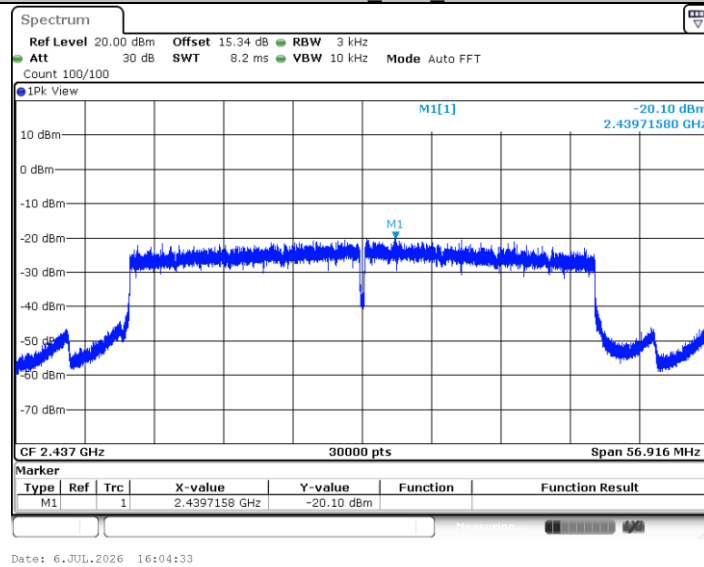
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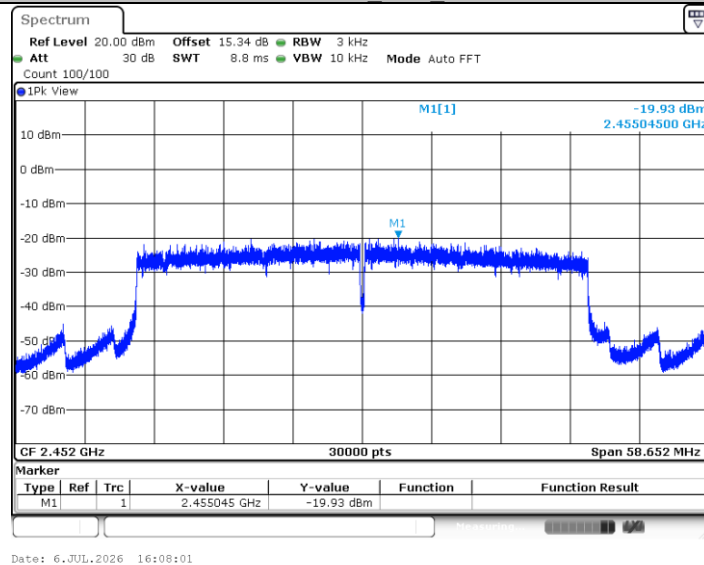
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11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452

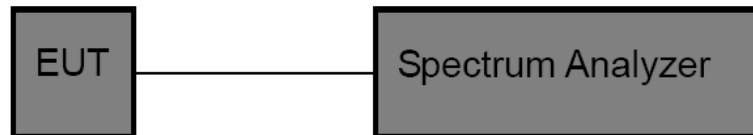


3.8. Duty Cycle

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	12.24	12.46	98.23	0.08	1
		2437	12.23	12.44	98.31	0.08	1
		2462	12.23	12.49	97.92	0.08	1
11G	Ant1	2412	2.04	2.19	93.15	0.49	1
		2437	2.03	2.22	91.44	0.49	1
		2462	2.04	2.25	90.67	0.49	1
11N20SISO	Ant1	2412	1.89	2.08	90.87	0.53	1
		2437	1.89	2.10	90.00	0.53	1
		2462	1.89	2.13	88.73	0.53	1
11N40SISO	Ant1	2422	0.93	1.17	79.49	1.08	2
		2437	0.93	1.11	83.78	1.08	2
		2452	0.93	1.16	80.17	1.08	2
11AX20SISO	Ant1	2412	1.45	1.66	87.35	0.69	1
		2437	1.46	1.68	86.90	0.68	1
		2462	1.47	1.63	90.18	0.68	1
11AX40SISO	Ant1	2422	0.76	0.94	80.85	1.32	2
		2437	0.76	0.94	80.85	1.32	2
		2452	0.76	0.93	81.72	1.32	2

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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(b) (4)

(4)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.

RSS-Gen Issue 5 Section 6.8

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power(e.i.r.p.) limits specified in the applicable standard (RSS) for licence-exempt apparatus.

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*****