

**(2) Conducted Spurious Emissions Test**

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.77	9.77	---	PASS
			30~1000	9.77	-47.70	≤-20.23	PASS
			1000~26500	9.77	-23.72	≤-20.23	PASS
		2437	Reference	10.17	10.17	---	PASS
			30~1000	10.17	-46.68	≤-19.83	PASS
			1000~26500	10.17	-23.86	≤-19.83	PASS
		2462	Reference	10.17	10.17	---	PASS
			30~1000	10.17	-48.17	≤-19.83	PASS
			1000~26500	10.17	-24.46	≤-19.83	PASS
11G	Ant1	2412	Reference	5.69	5.69	---	PASS
			30~1000	5.69	-47.41	≤-24.31	PASS
			1000~26500	5.69	-34.15	≤-24.31	PASS
		2437	Reference	5.81	5.81	---	PASS
			30~1000	5.81	-47.87	≤-24.19	PASS
			1000~26500	5.81	-35.73	≤-24.19	PASS
		2462	Reference	5.02	5.02	---	PASS
			30~1000	5.02	-47.18	≤-24.98	PASS
			1000~26500	5.02	-36.28	≤-24.98	PASS
11N20SISO	Ant1	2412	Reference	5.11	5.11	---	PASS
			30~1000	5.11	-47.13	≤-24.89	PASS
			1000~26500	5.11	-33.33	≤-24.89	PASS
		2437	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-44.75	≤-28.05	PASS
			1000~26500	1.95	-38.90	≤-28.05	PASS
		2462	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-47.74	≤-25.86	PASS
			1000~26500	4.14	-36.64	≤-25.86	PASS
11N40SISO	Ant1	2422	Reference	1.81	1.81	---	PASS
			30~1000	1.81	-47.69	≤-28.19	PASS
			1000~26500	1.81	-37.83	≤-28.19	PASS
		2437	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-47.79	≤-28.34	PASS
			1000~26500	1.66	-37.17	≤-28.34	PASS
		2452	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-47.77	≤-28.50	PASS
			1000~26500	1.50	-39.94	≤-28.50	PASS

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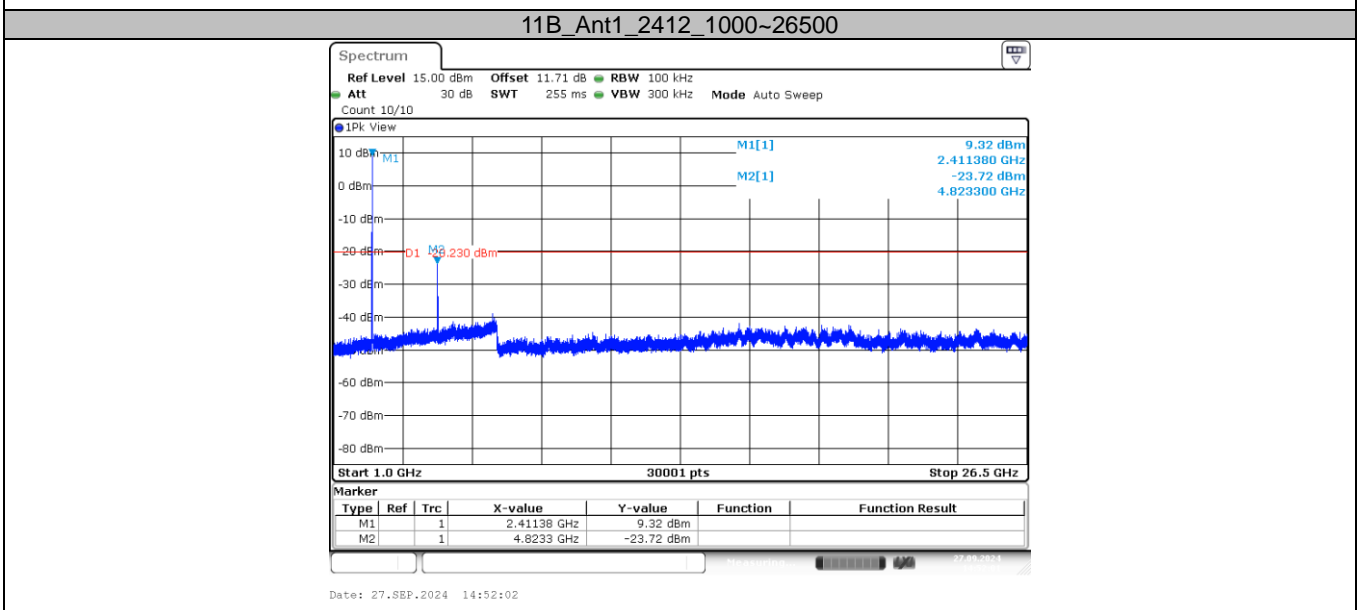
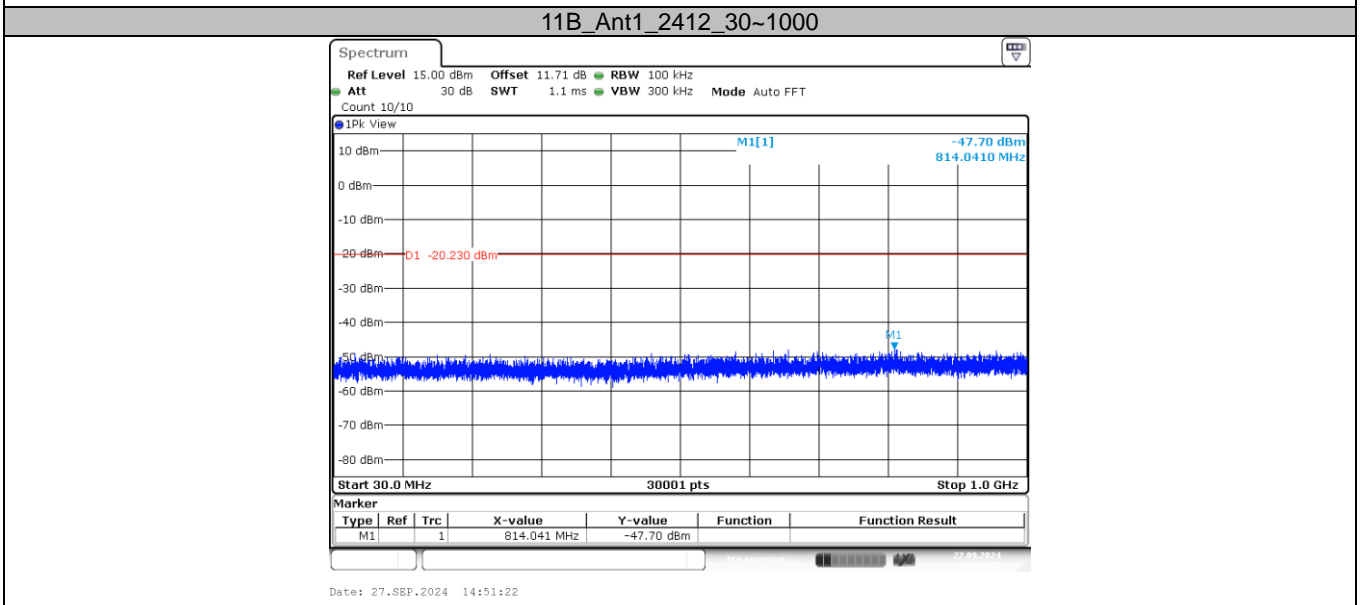
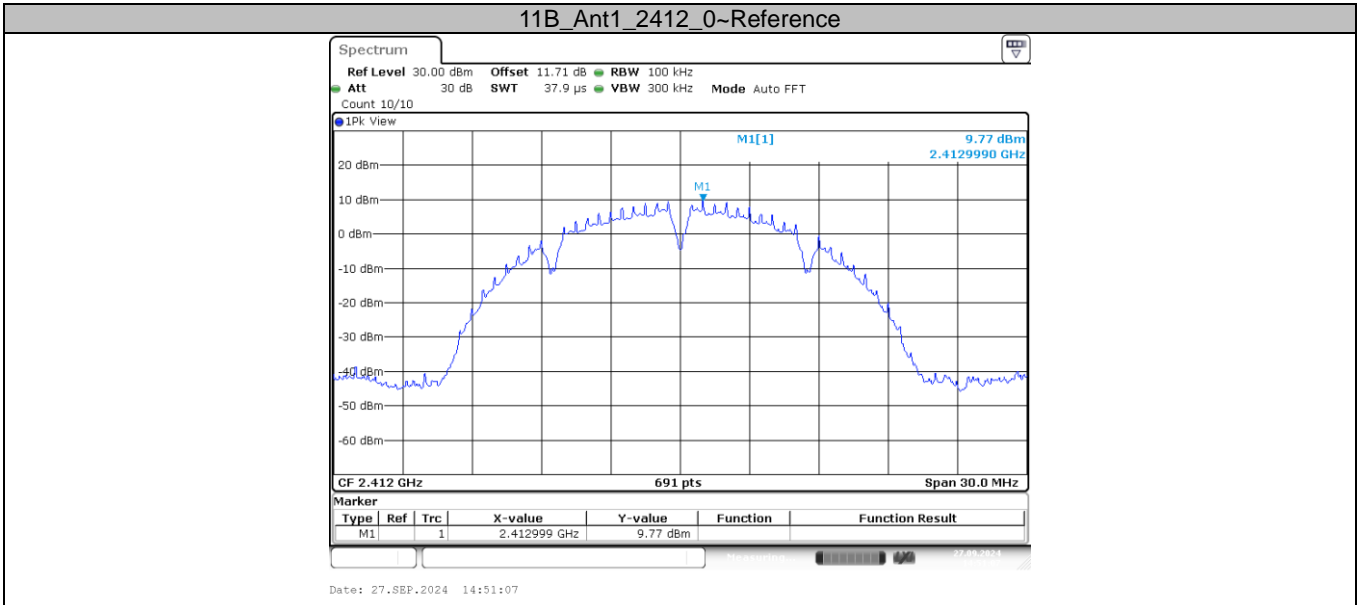
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Test plot as follows:

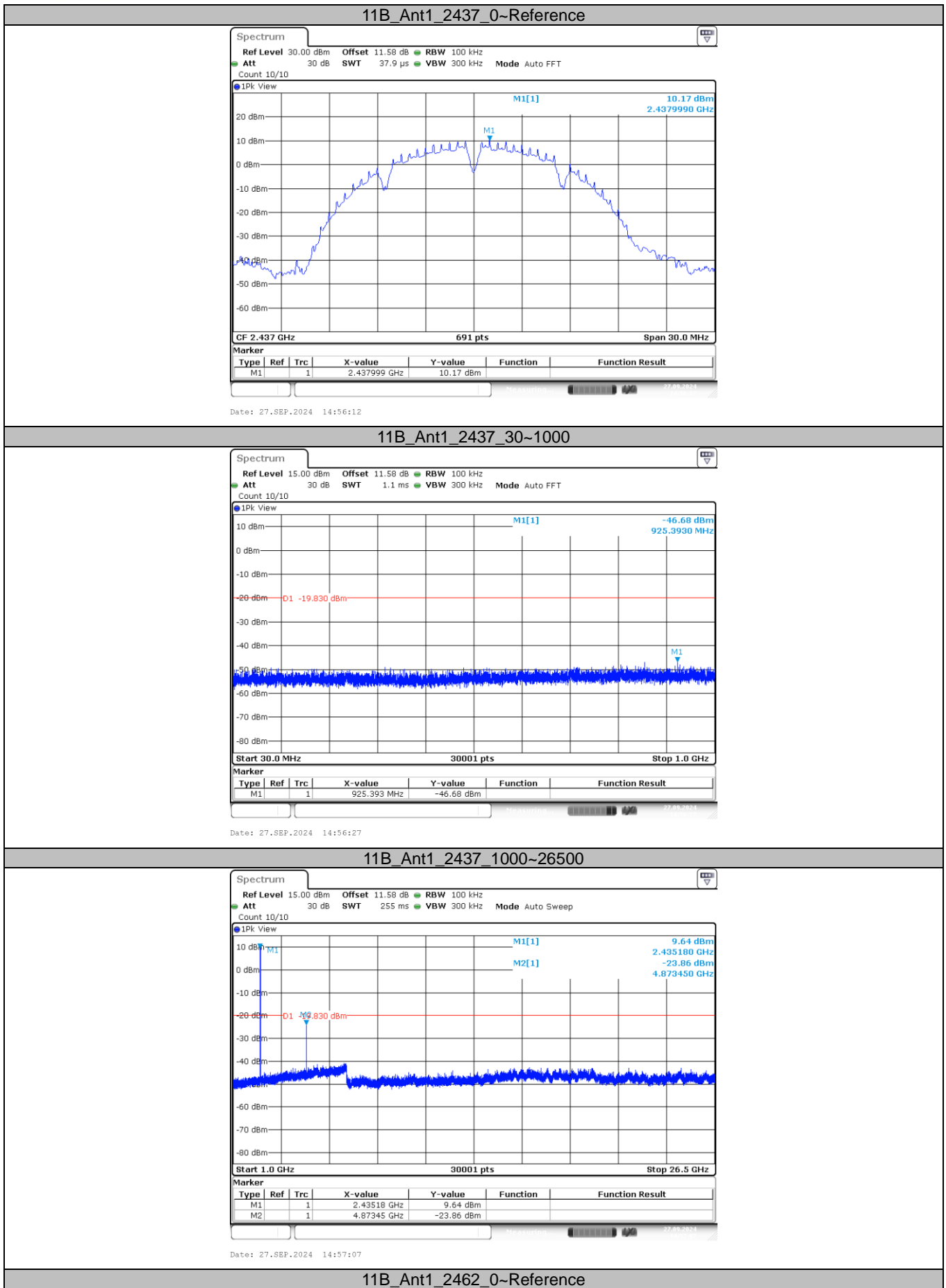


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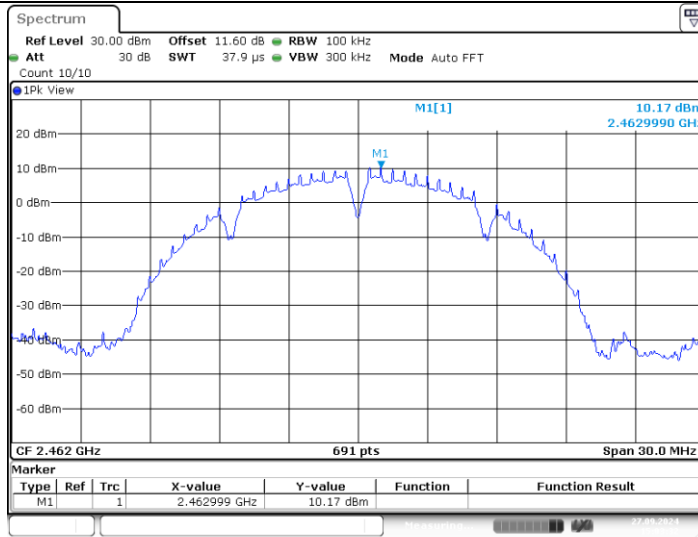


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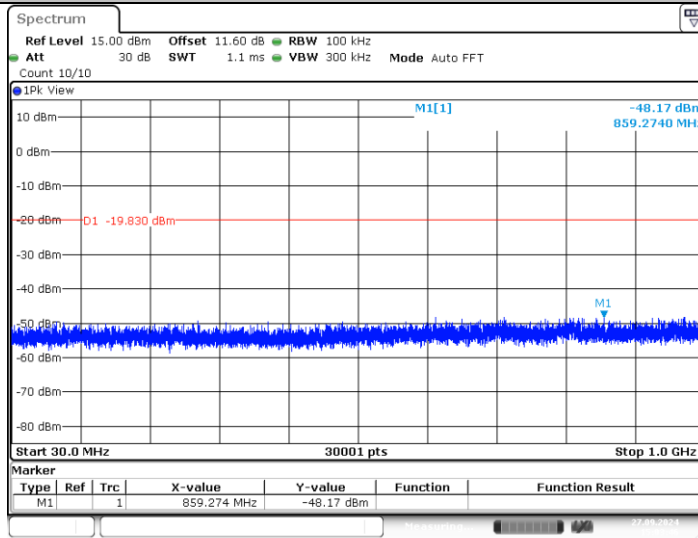
TRF No: CTC-TR-057_A1

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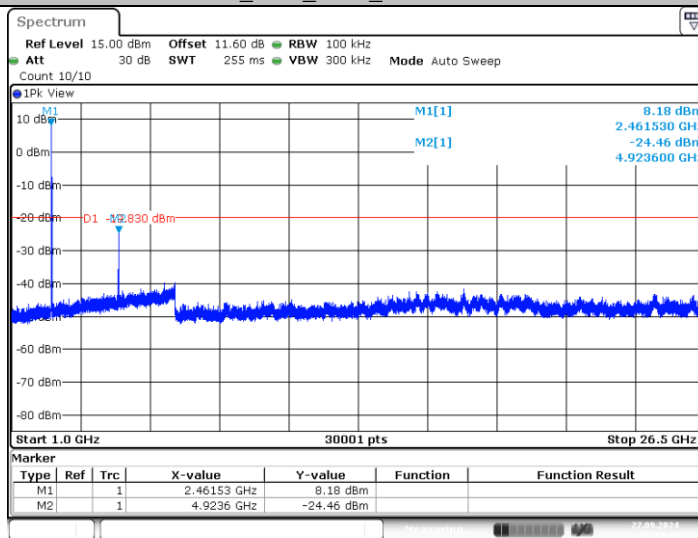
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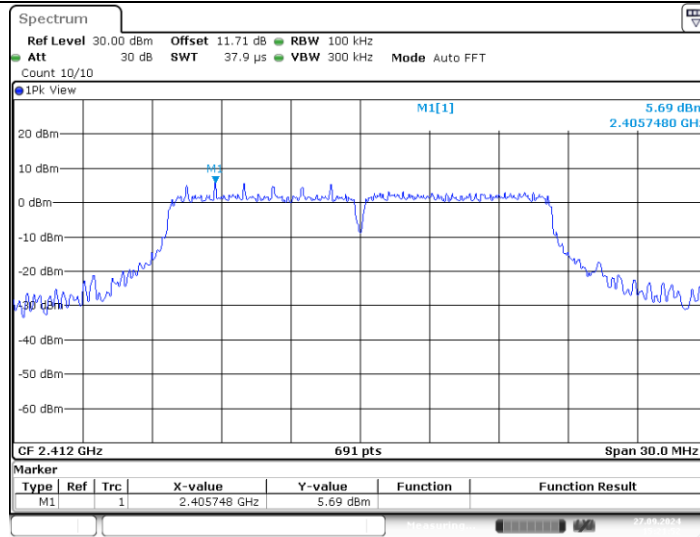
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11B_Ant1_2462_1000~26500



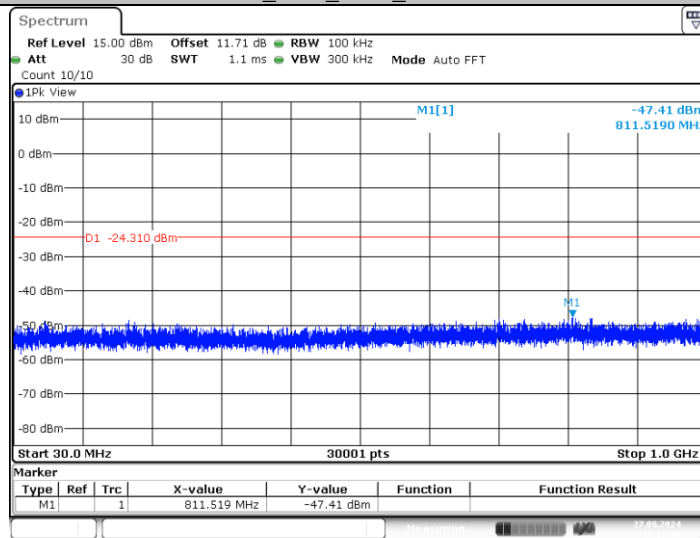
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11G_Ant1_2412_0~Reference



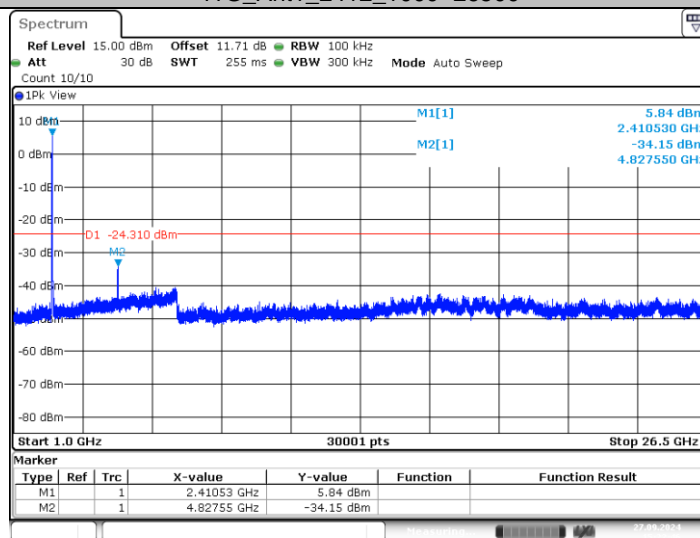
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11G_Ant1_2412_30~1000



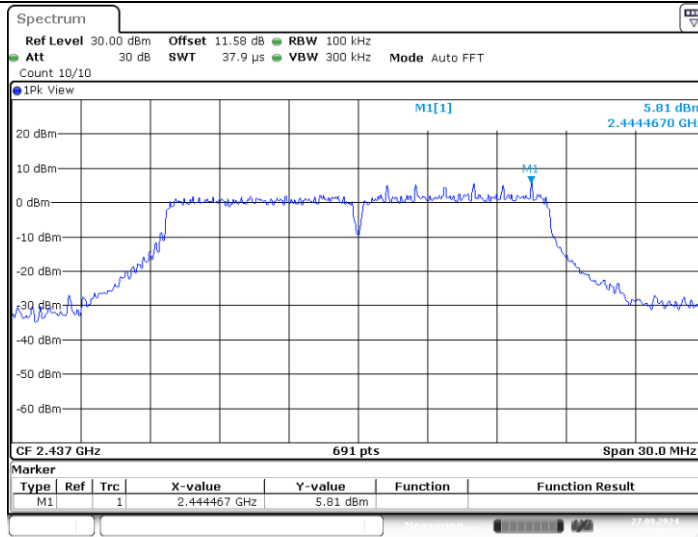
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11G_Ant1_2412_1000~26500



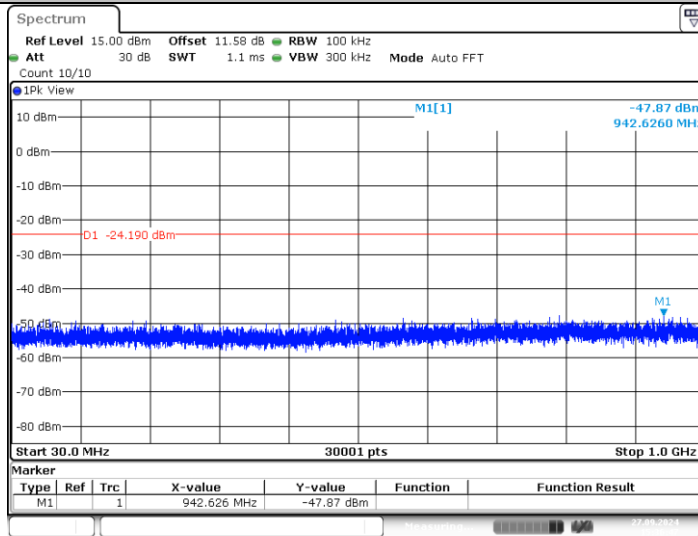
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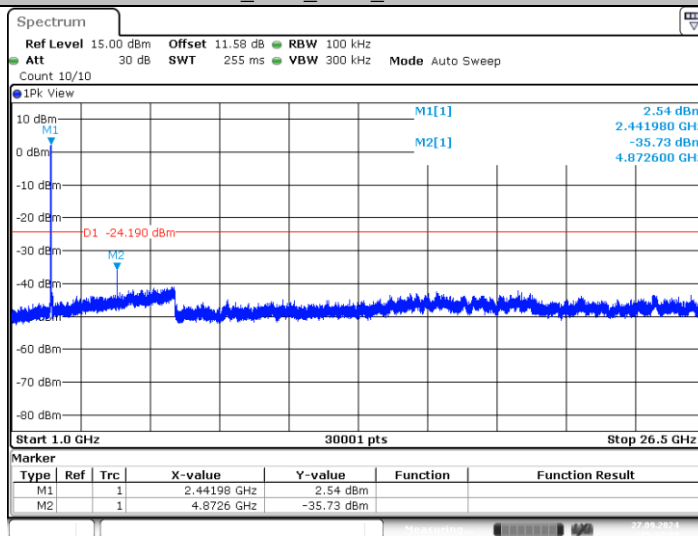
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11G_Ant1_2437_30~1000



Date: 27.SEP.2024 15:36:47

11G_Ant1_2437_1000~26500



Date: 27.SEP.2024 15:37:27

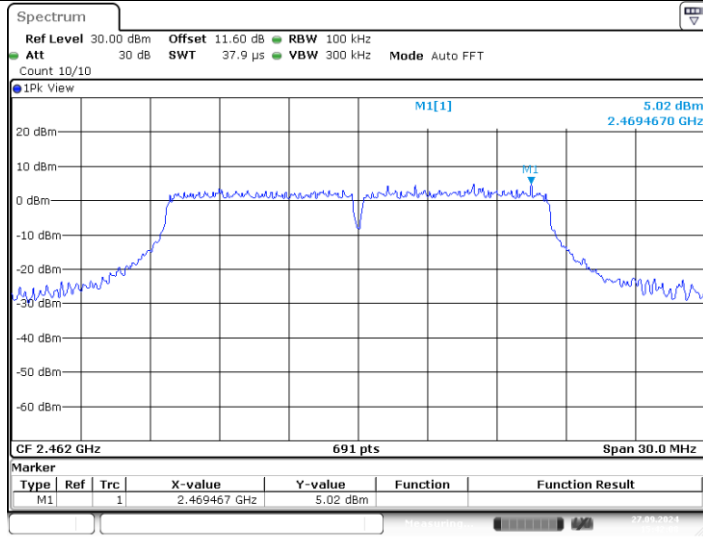
11G_Ant1_2462_0~Reference

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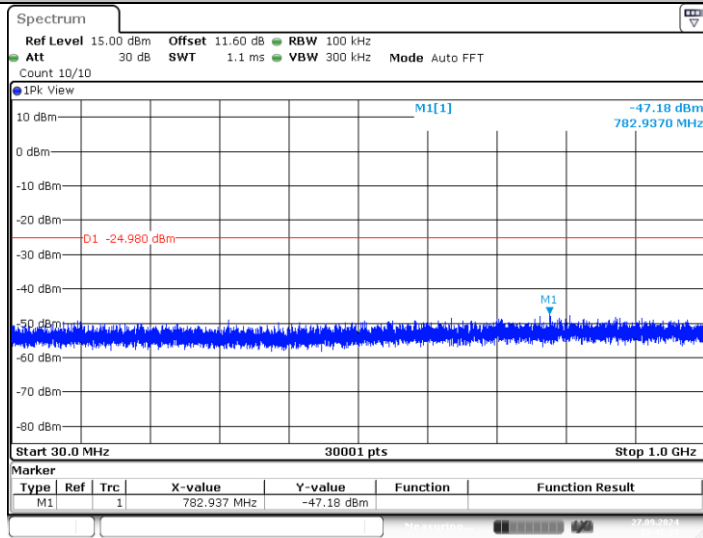
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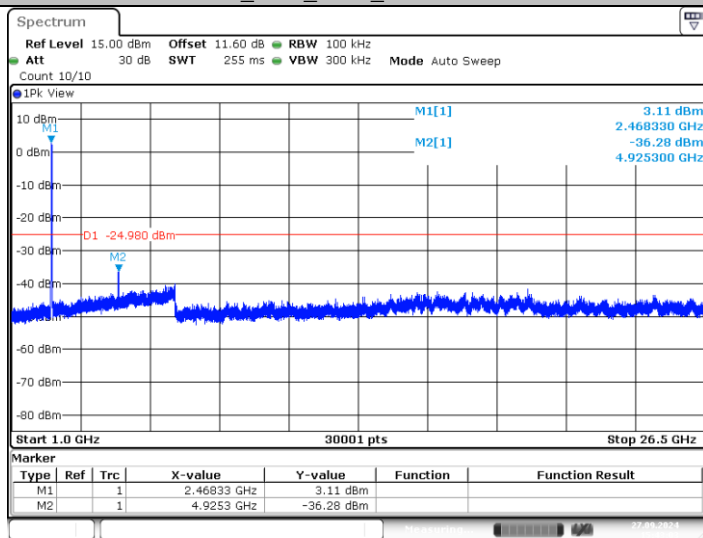
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11G_Ant1_2462_30~1000



Date: 27.SEP.2024 15:42:23

11G_Ant1_2462_1000~26500



Date: 27.SEP.2024 15:43:02

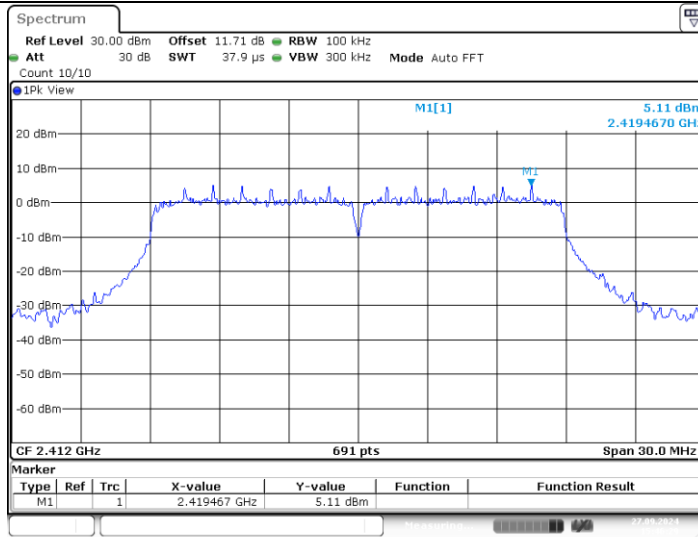
11N20SISO_Ant1_2412_0~Reference

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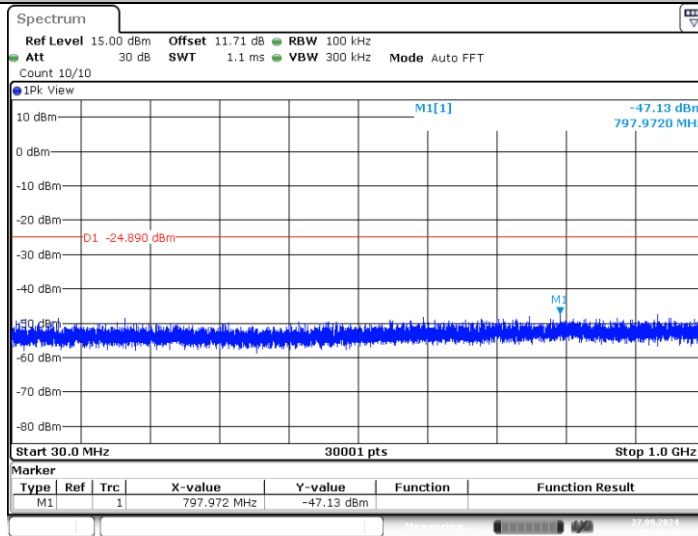
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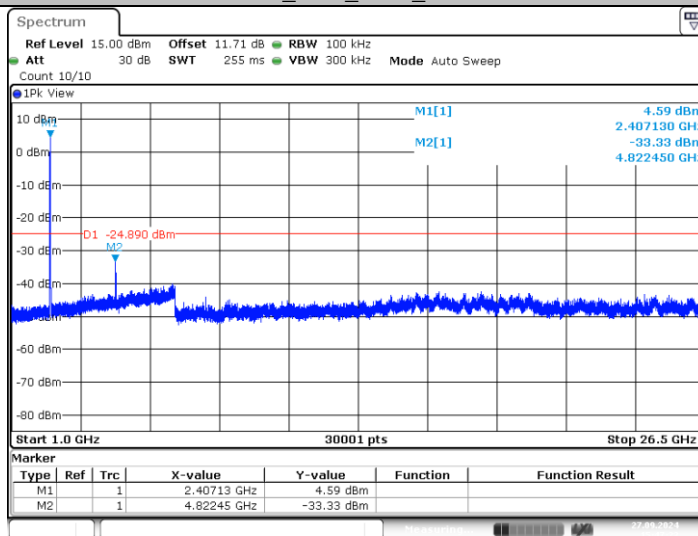
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11N20SISO_Ant1_2412_30~1000



Date: 27.SEP.2024 15:46:43

11N20SISO_Ant1_2412_1000~26500



Date: 27.SEP.2024 15:47:23

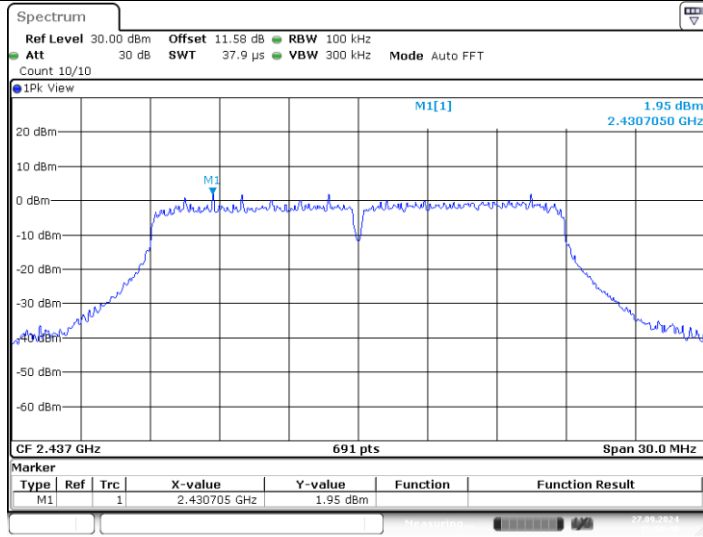
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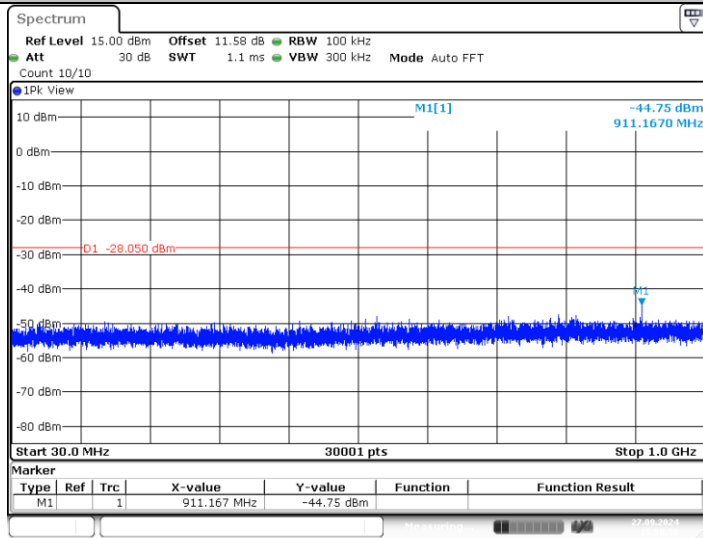
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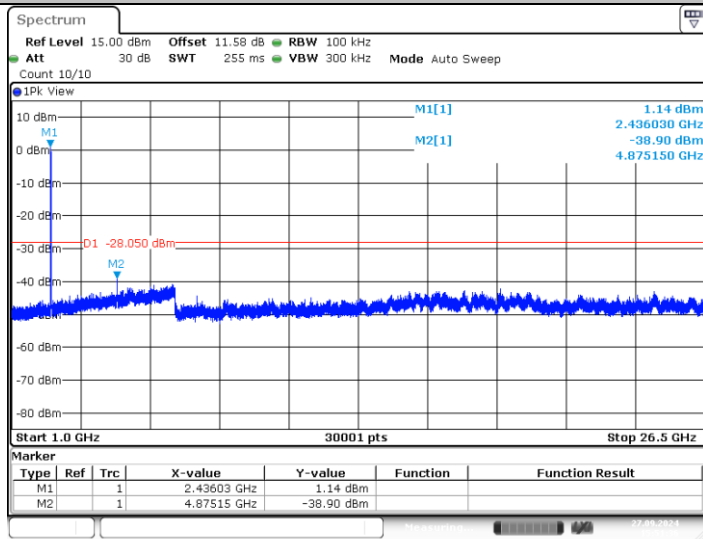
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11N20SISO_Ant1_2437_30~1000



Date: 27.SEP.2024 15:50:55

11N20SISO_Ant1_2437_1000~26500



Date: 27.SEP.2024 15:51:35

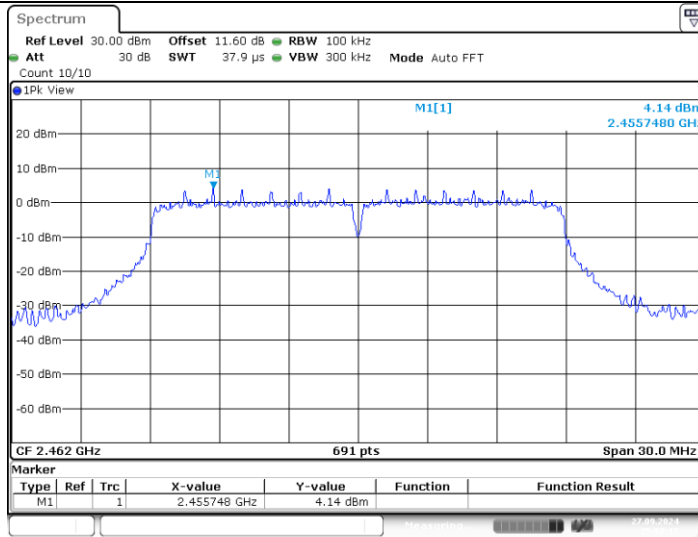
11N20SISO_Ant1_2462_0~Reference

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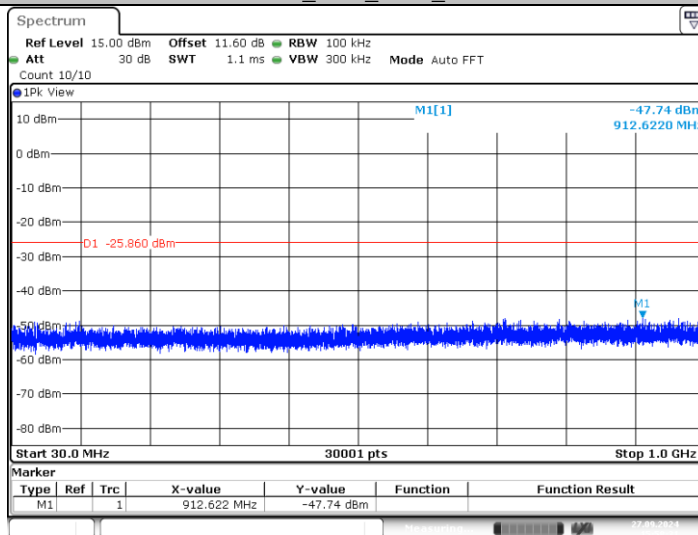
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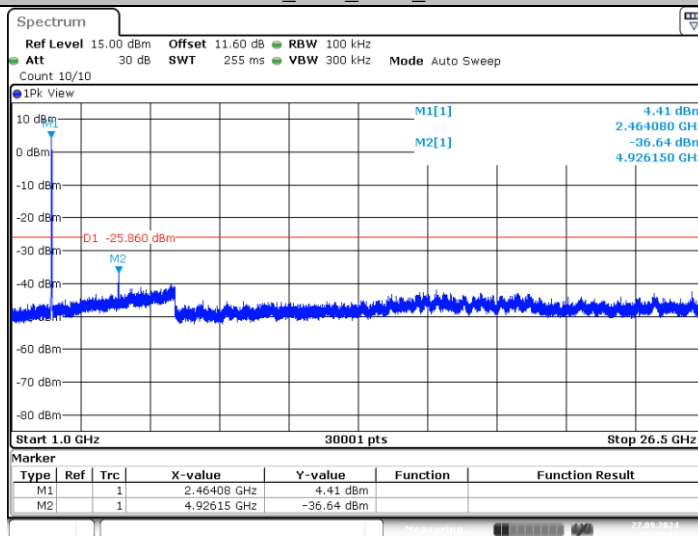
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11N20SISO_Ant1_2462_30~1000



Date: 27.SEP.2024 15:58:32

11N20SISO_Ant1_2462_1000~26500



Date: 27.SEP.2024 15:59:11

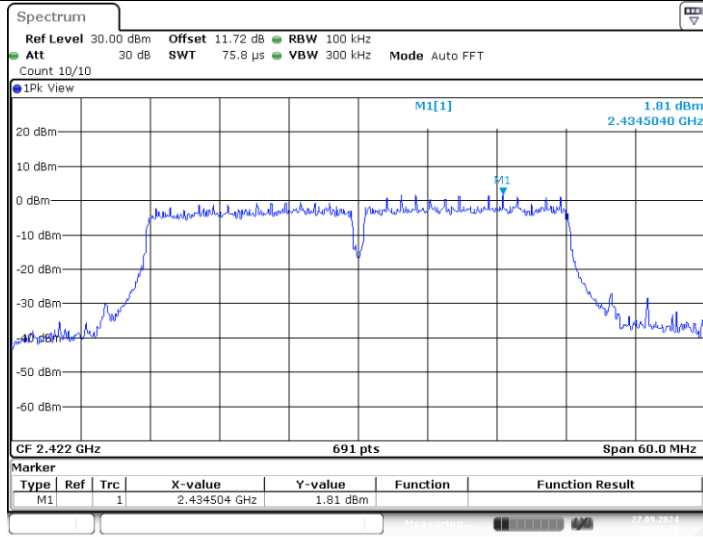
11N40SISO_Ant1_2422_0~Reference

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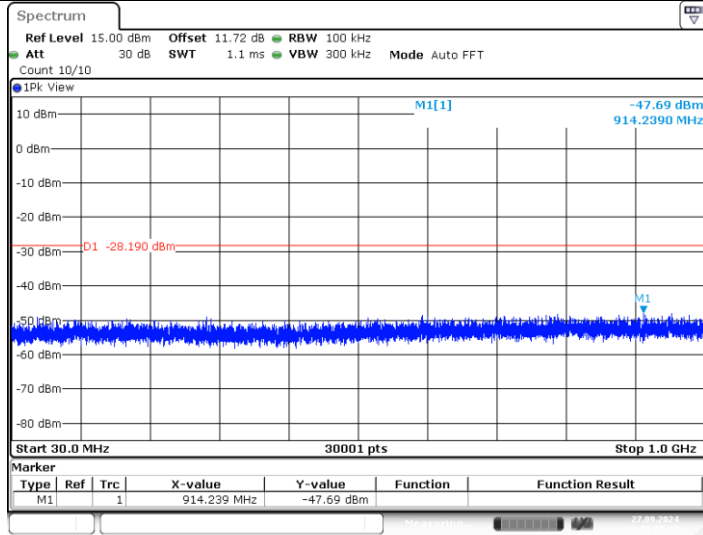
TRF No: CTC-TR-057_A1

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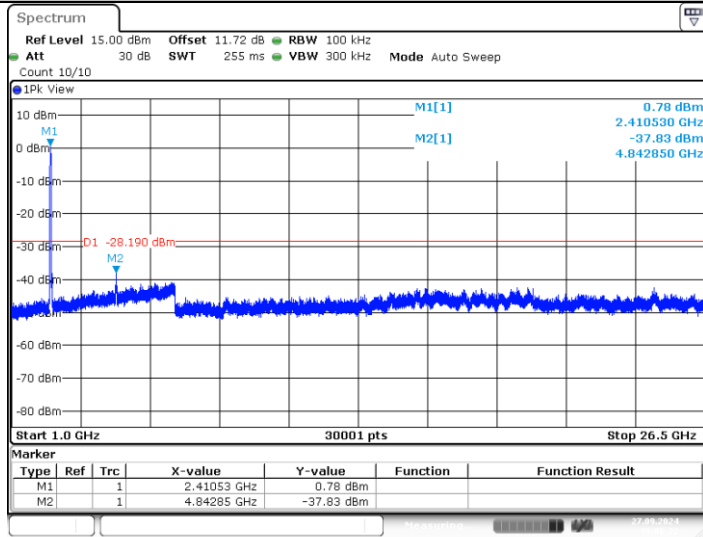
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11N40SISO_Ant1_2422_30~1000



Date: 27.SEP.2024 16:05:43

11N40SISO_Ant1_2422_1000~26500



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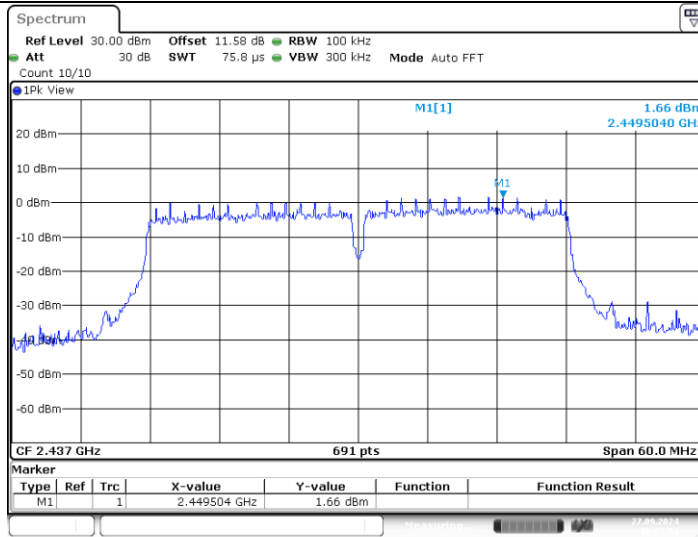
11N40SISO_Ant1_2437_0~Reference

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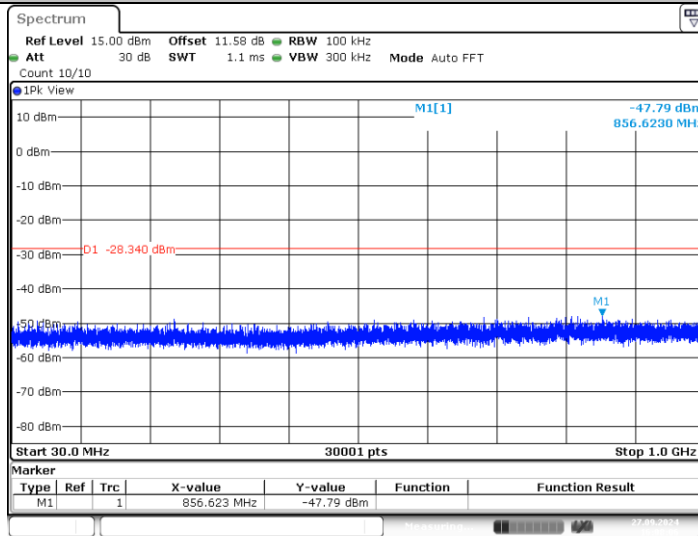
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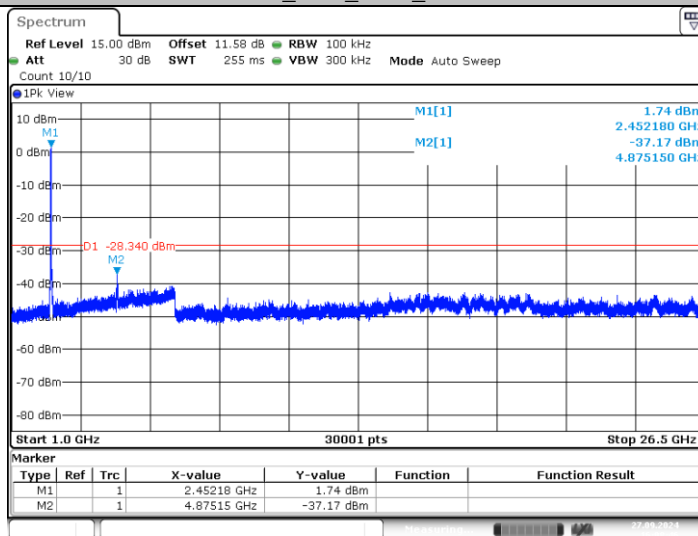
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11N40SISO_Ant1_2437_30~1000



Date: 27.SEP.2024 16:08:06

11N40SISO_Ant1_2437_1000~26500



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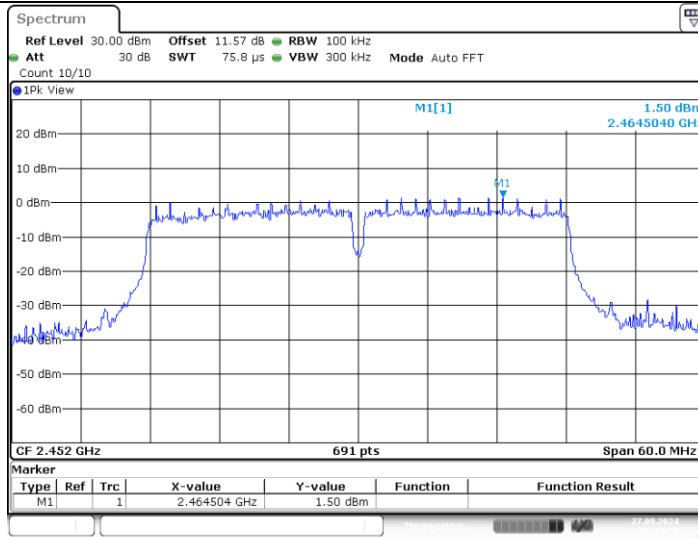
11N40SISO_Ant1_2452_0~Reference

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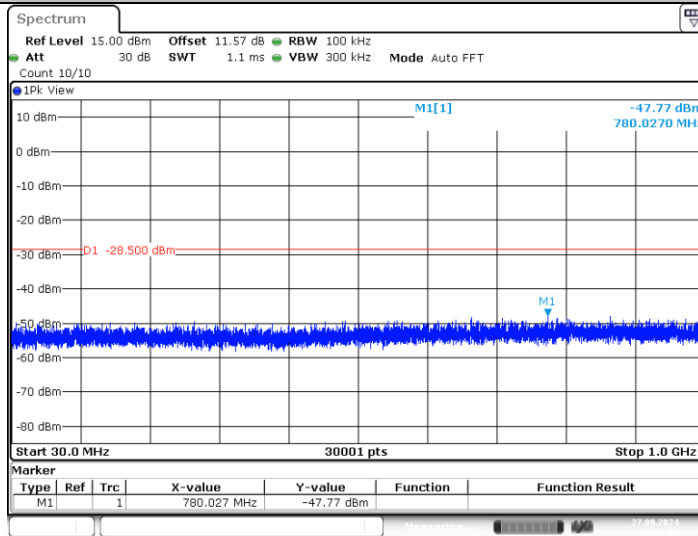
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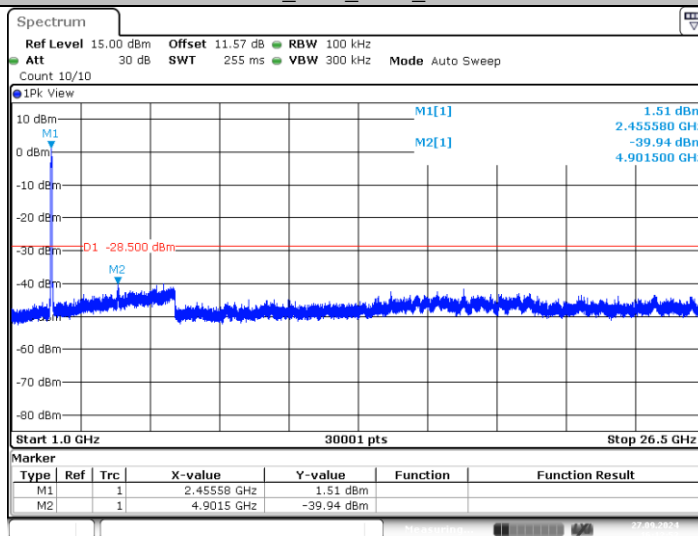
Date: 27.SEP.2024 16:11:58

11N40SISO_Ant1_2452_30~1000



Date: 27.SEP.2024 16:12:13

11N40SISO_Ant1_2452_1000~26500



Date: 27.SEP.2024 16:12:53

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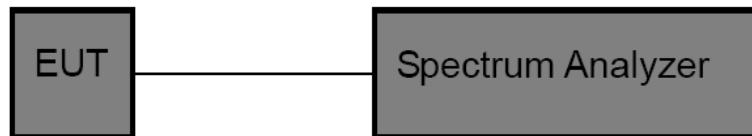
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

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

Test Configuration



Test Procedure

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

Test Mode	Antenna	Frequency[MHz]	99% Bandwidth [MHz]	DTS Bandwidth [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.347	9.04	0.5	PASS
		2437	13.347	8.56	0.5	PASS
		2462	13.267	9.04	0.5	PASS
11G	Ant1	2412	17.223	16.32	0.5	PASS
		2437	17.143	16.32	0.5	PASS
		2462	17.103	16.36	0.5	PASS
11N20SISO	Ant1	2412	18.142	17.56	0.5	PASS
		2437	17.902	17.60	0.5	PASS
		2462	18.222	17.60	0.5	PASS
11N40SISO	Ant1	2422	36.923	36.32	0.5	PASS
		2437	36.683	35.36	0.5	PASS
		2452	36.364	35.76	0.5	PASS

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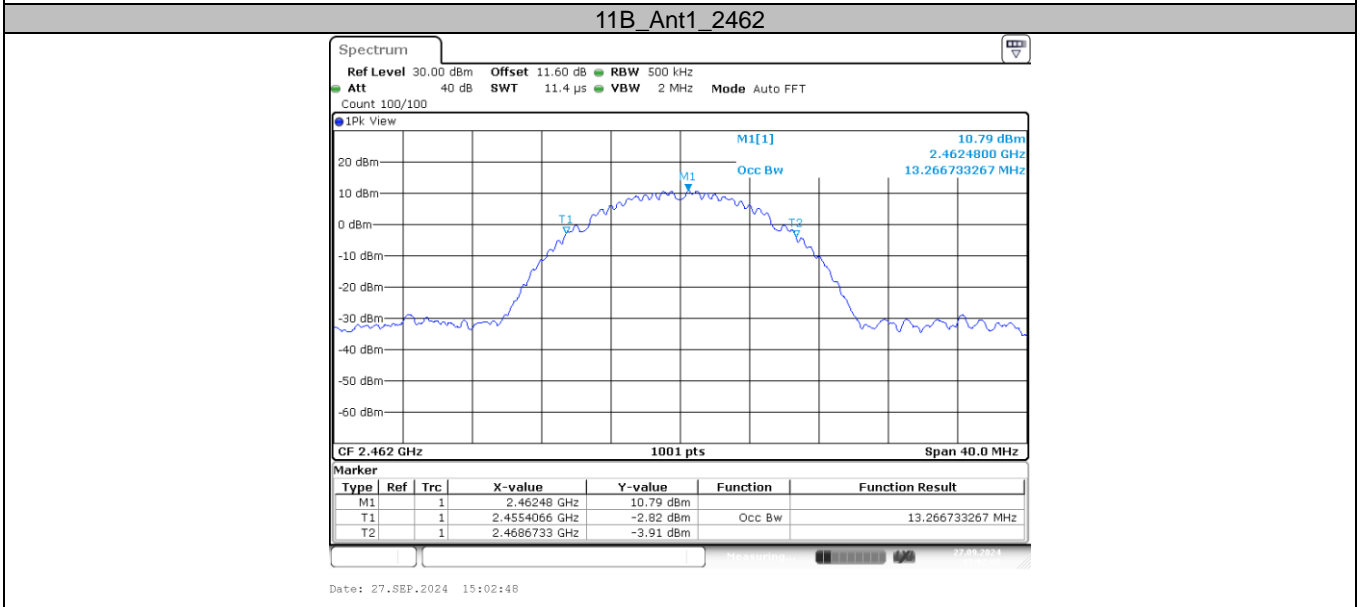
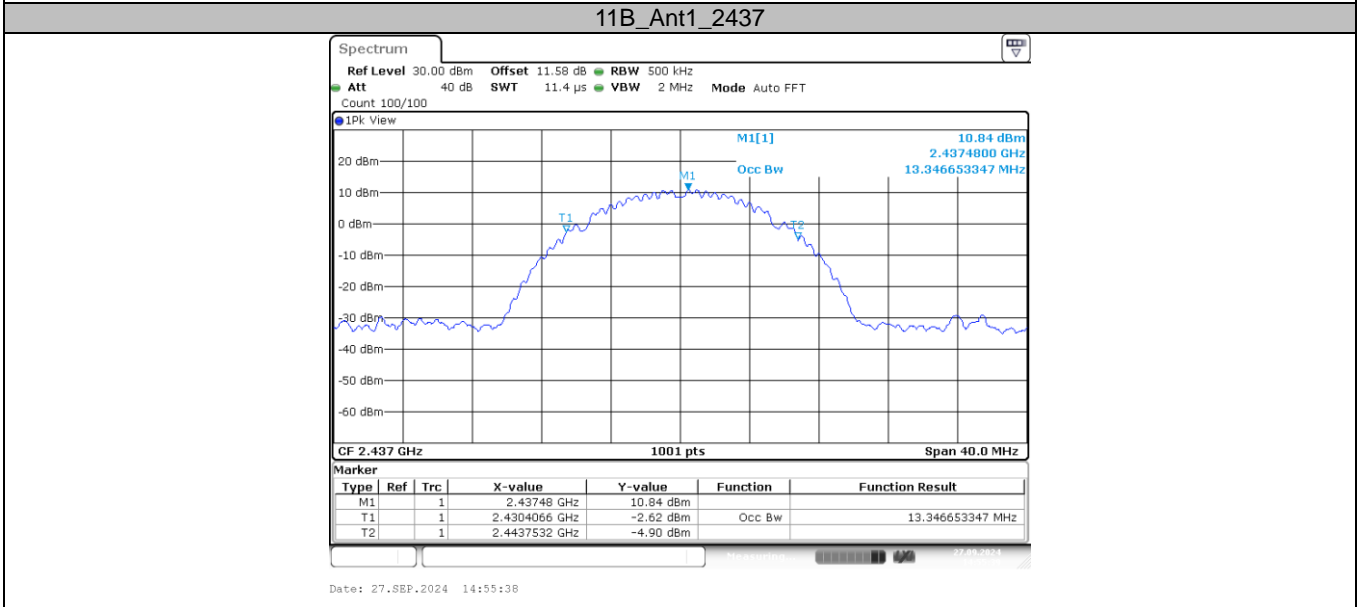
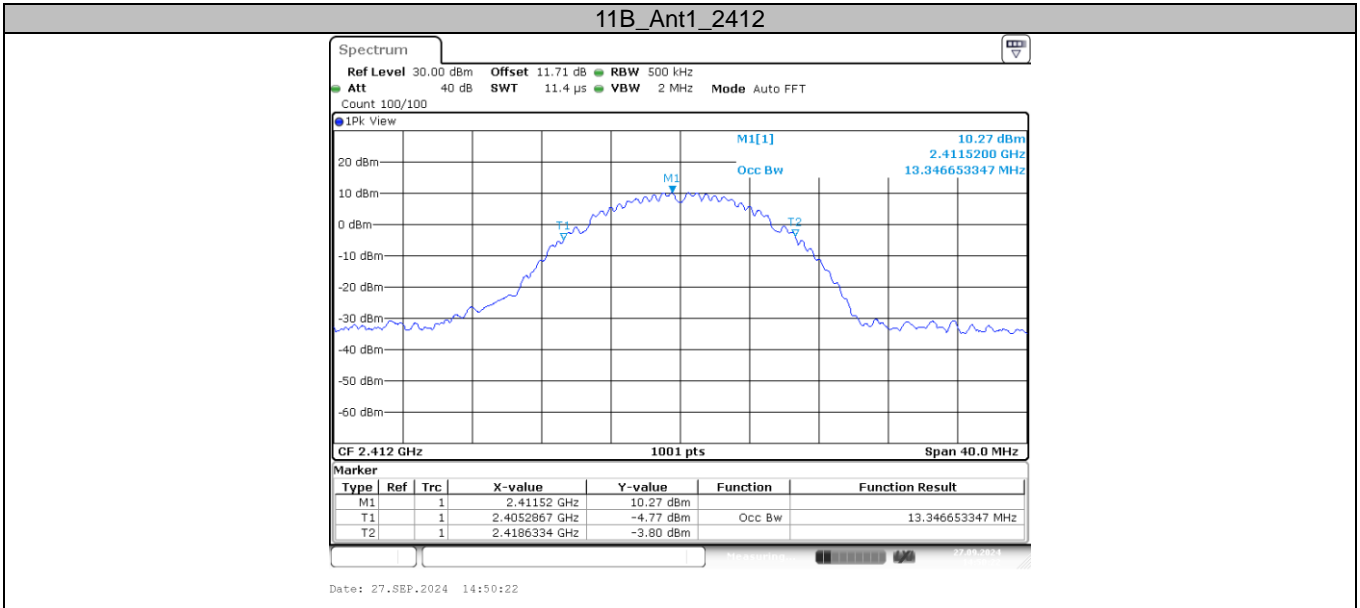
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99% Bandwidth:



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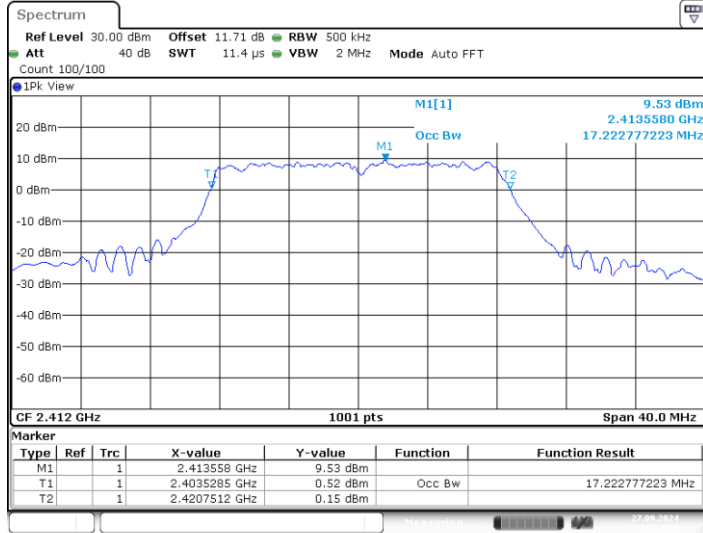
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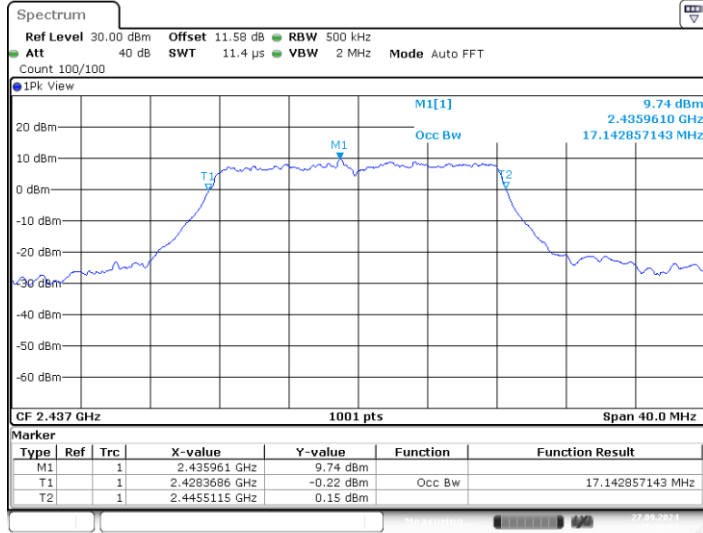


11G_Ant1_2412



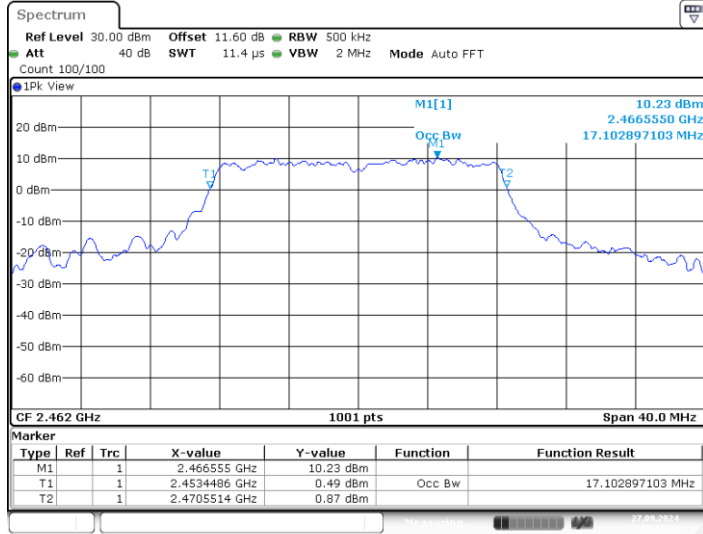
Date: 27.SEP.2024 15:21:08

11G_Ant1_2437



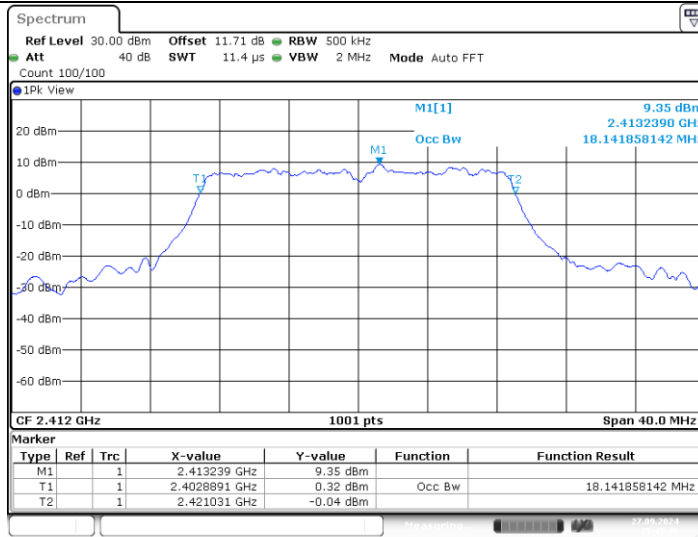
Date: 27.SEP.2024 15:36:00

11G_Ant1_2462



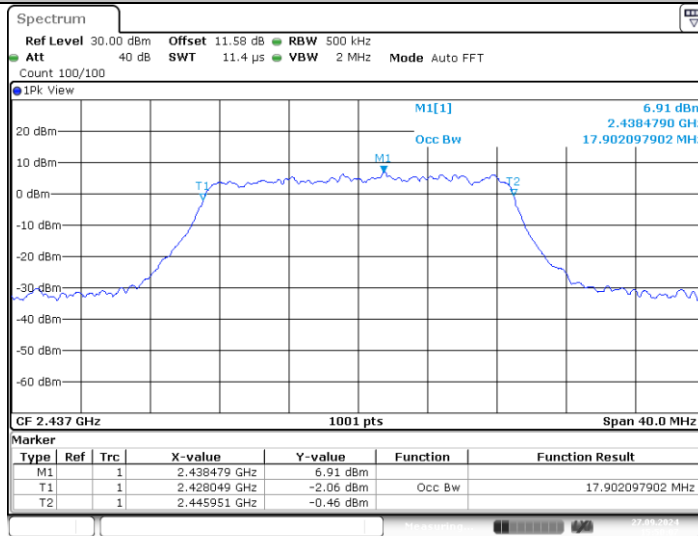
Date: 27.SEP.2024 15:41:25

11N20SISO_Ant1_2412



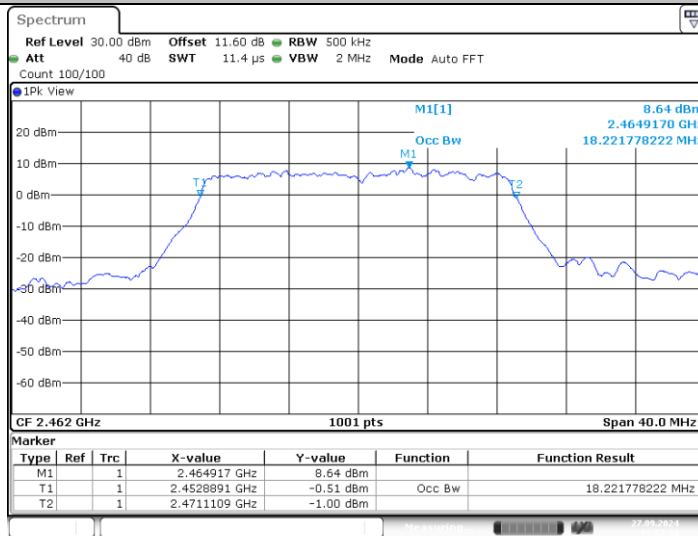
Date: 27.SEP.2024 15:45:45

11N20SISO_Ant1_2437



Date: 27.SEP.2024 15:50:07

11N20SISO_Ant1_2462



Date: 27.SEP.2024 15:57:34

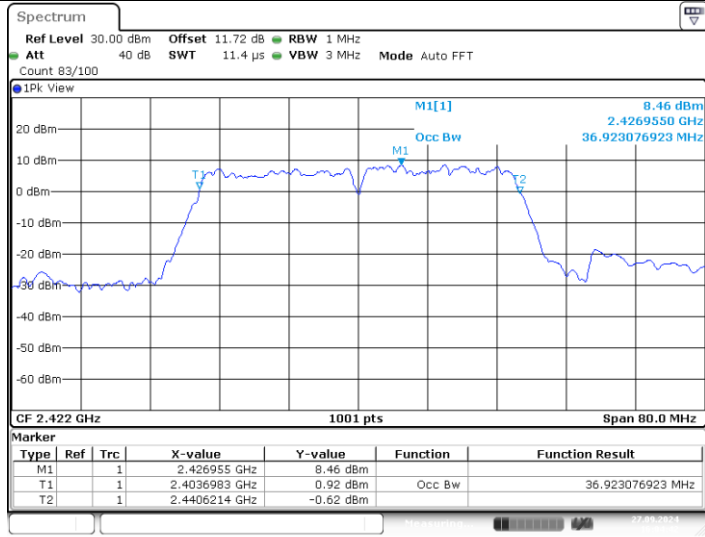
11N40SISO_Ant1_2422

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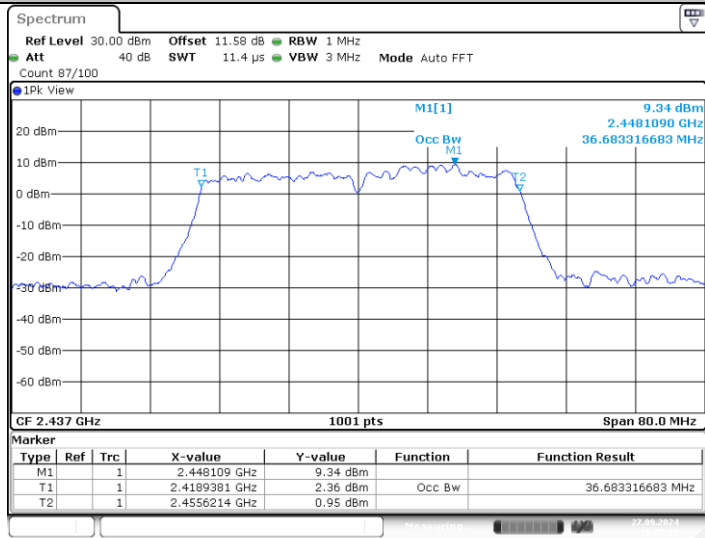
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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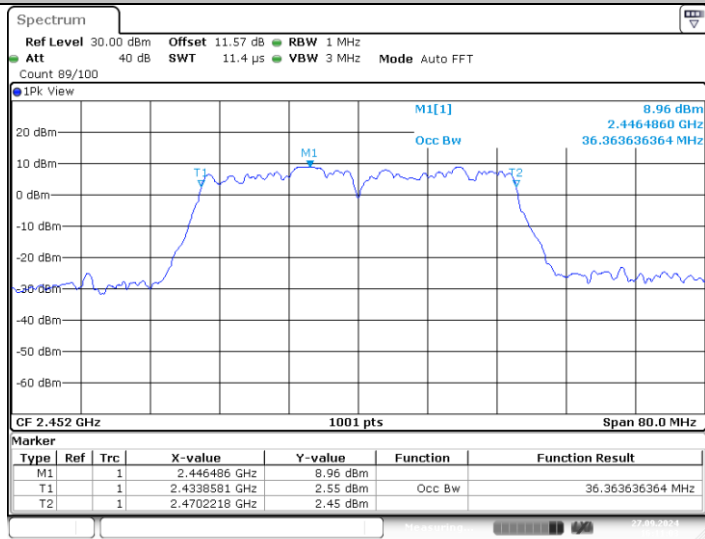
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



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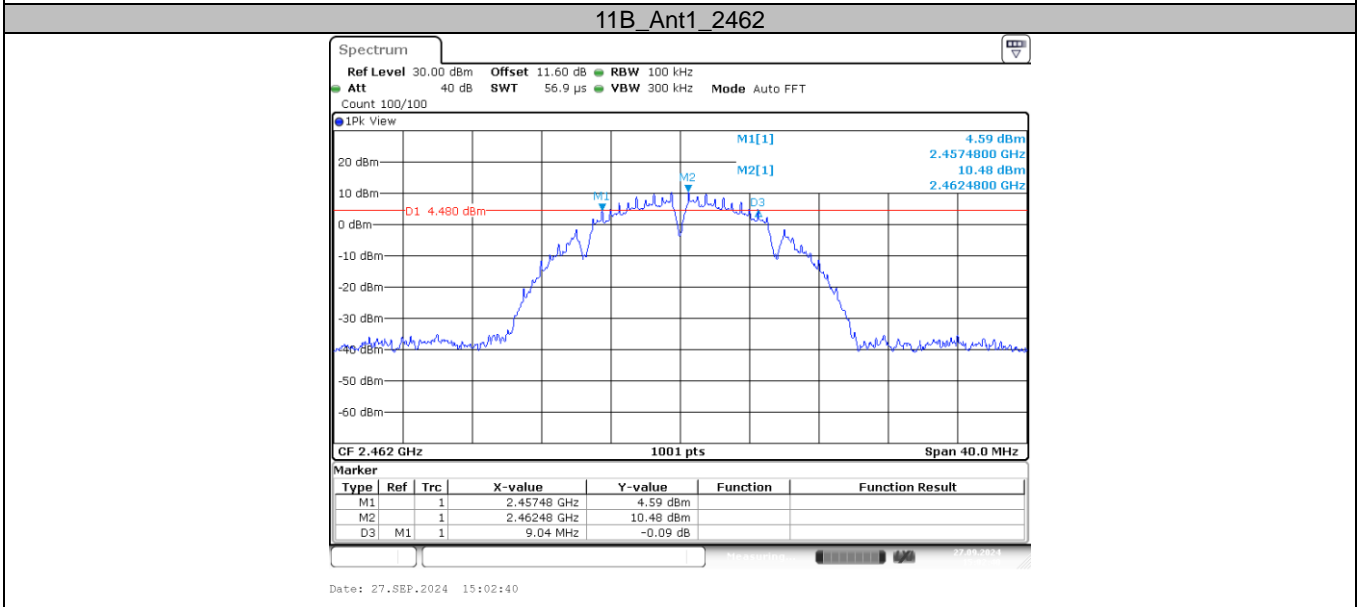
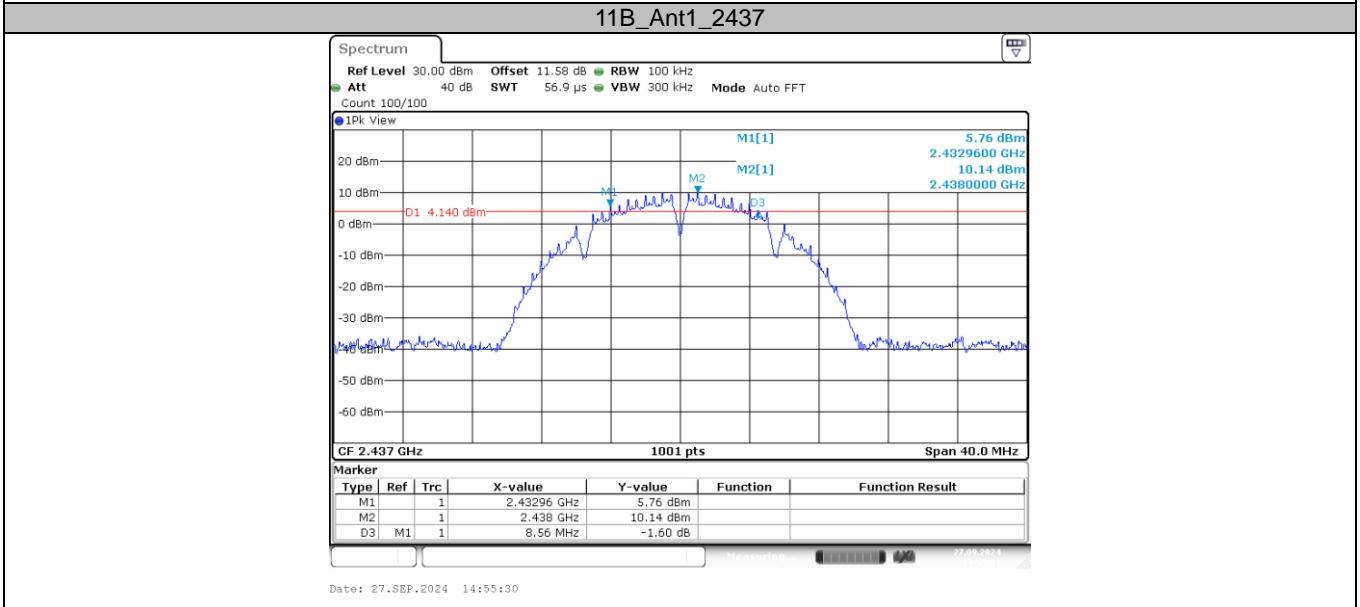
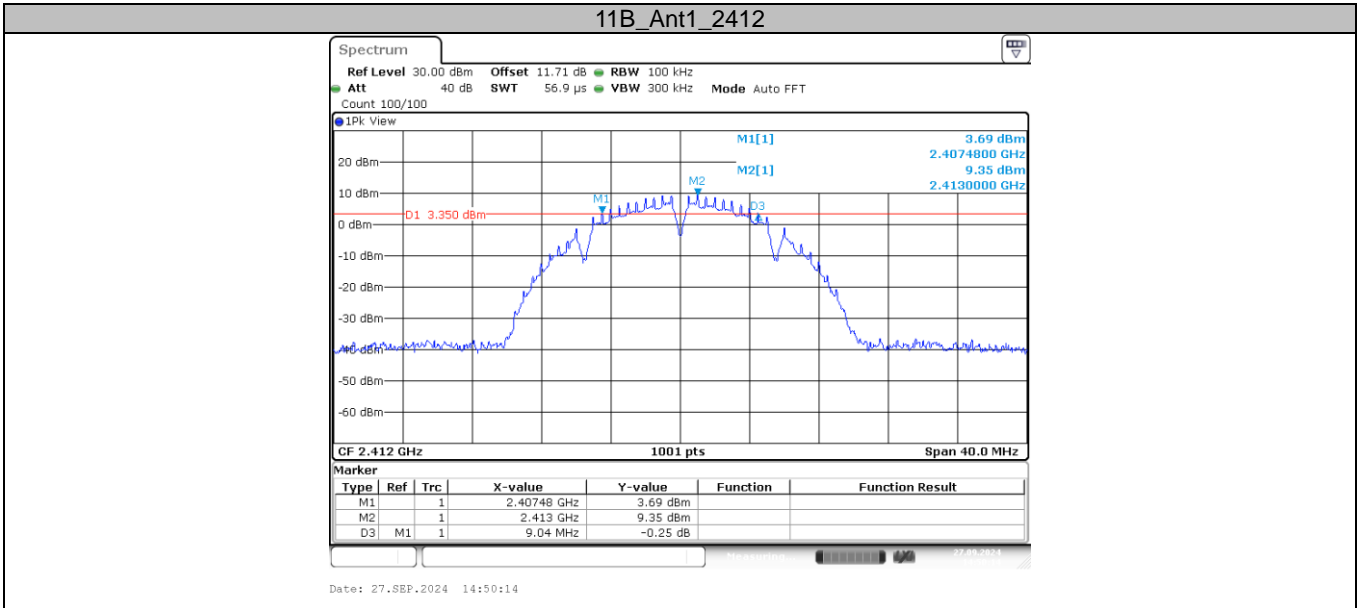
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
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DTS Bandwidth:



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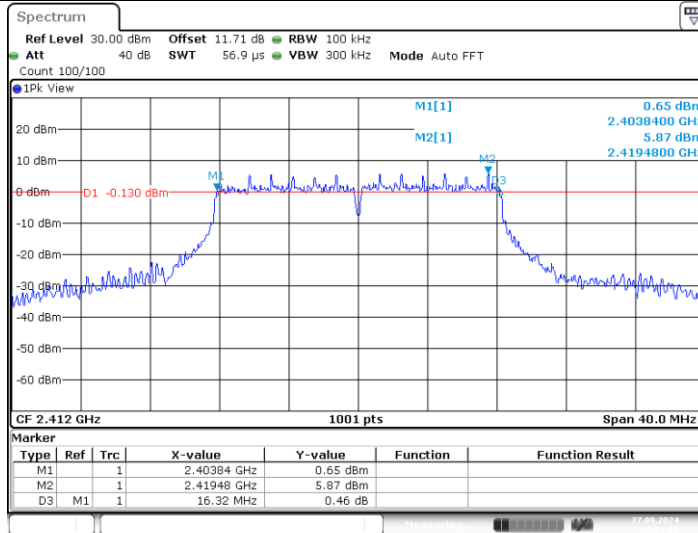
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
 Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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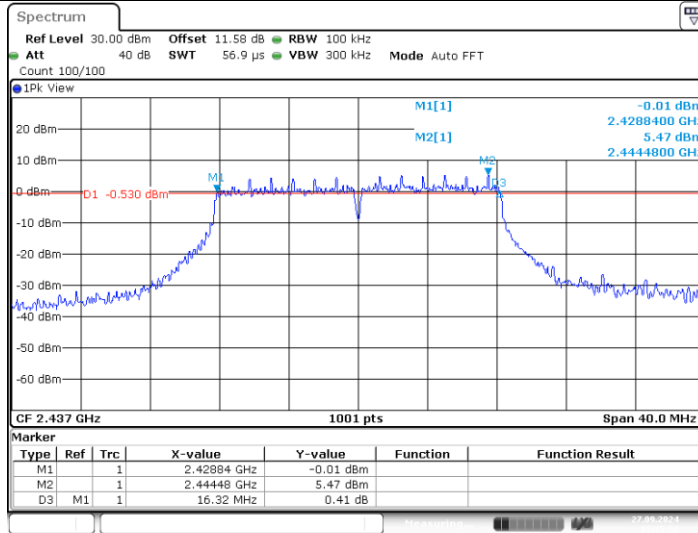


11G_Ant1_2412



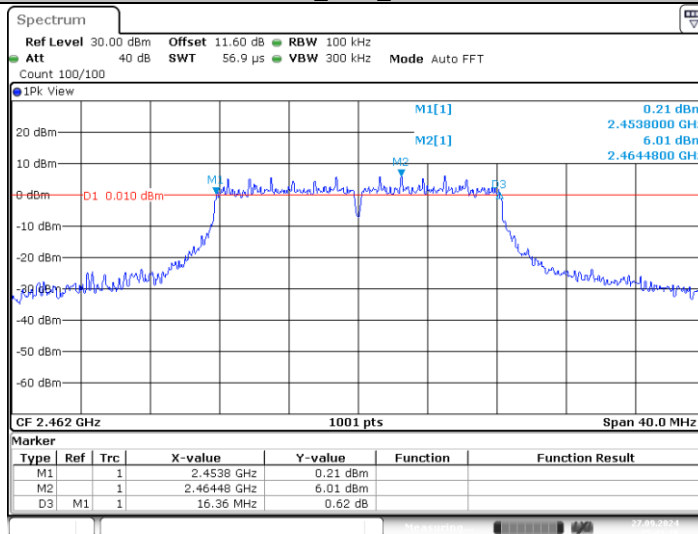
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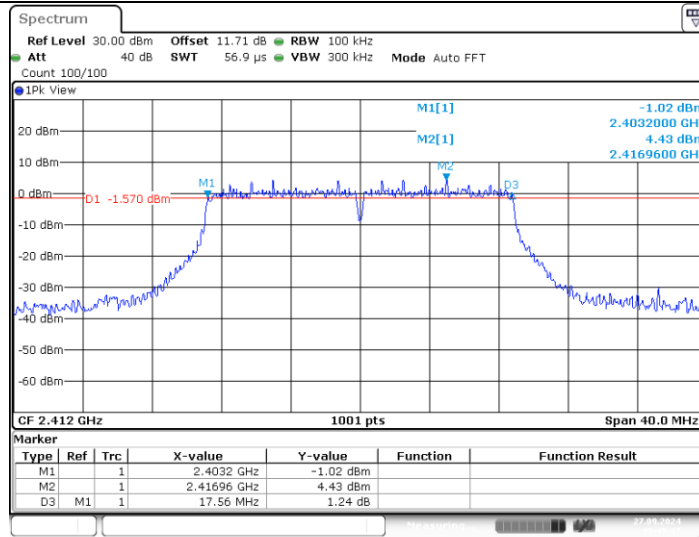
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11G_Ant1_2462



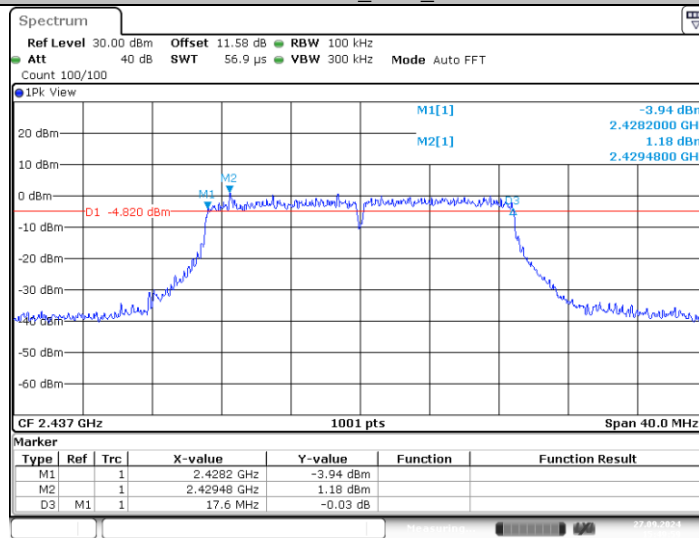
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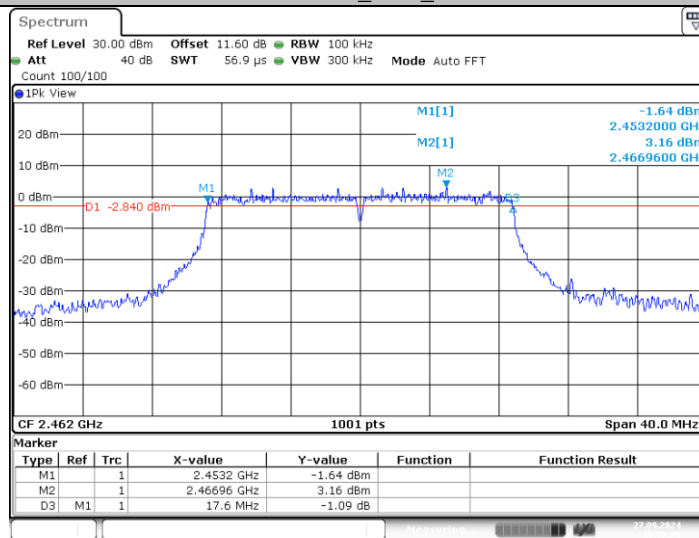
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11N20SISO_Ant1_2437



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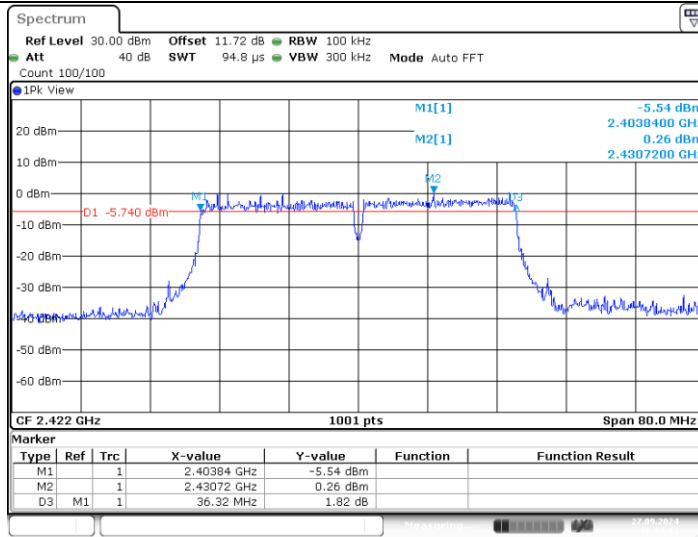
11N40SISO_Ant1_2422

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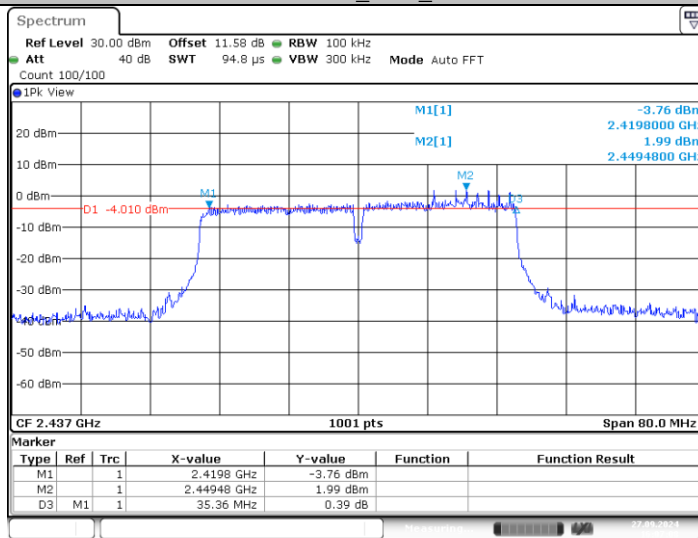
TRF No: CTC-TR-057_A1

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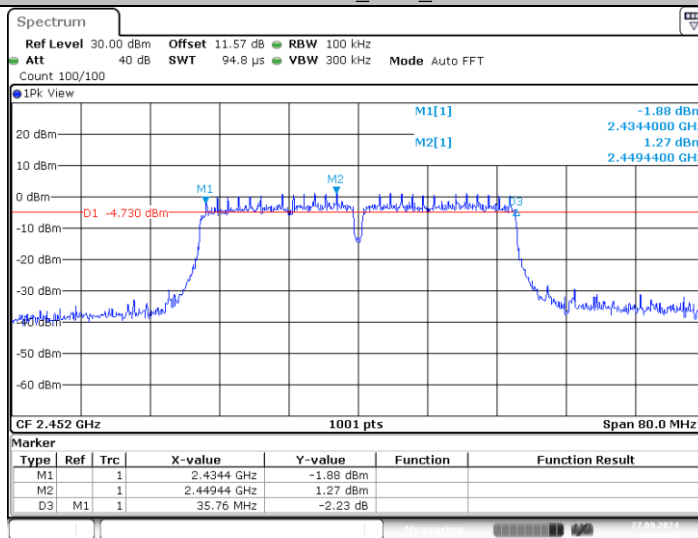
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11N40SISO_Ant1_2437



Date: 27.SEP.2024 16:07:09

11N40SISO_Ant1_2452



Date: 27.SEP.2024 16:10:55

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TRF No: CTC-TR-057_A1

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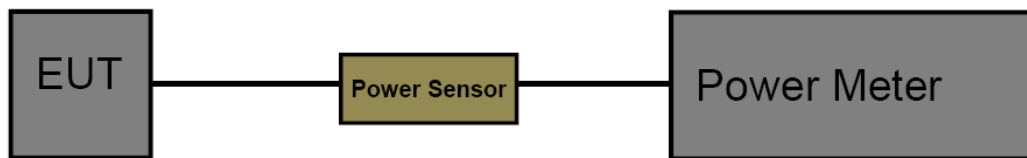
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

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
ISED RSS-247 5.4 d	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 AVG 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]	Average power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.14	≤30.00	PASS
		2437	18.65	≤30.00	PASS
		2462	18.59	≤30.00	PASS
11G	Ant1	2412	17.54	≤30.00	PASS
		2437	17.09	≤30.00	PASS
		2462	17.79	≤30.00	PASS
11N20SISO	Ant1	2412	16.72	≤30.00	PASS
		2437	16.36	≤30.00	PASS
		2462	16.13	≤30.00	PASS
11N40SISO	Ant1	2422	16.45	≤30.00	PASS
		2437	16.30	≤30.00	PASS
		2452	16.21	≤30.00	PASS

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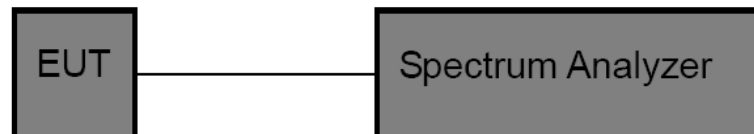
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 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 span to at least 1.5 times the OBW.
 Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 Set VBW $\geq [3 \times \text{RBW}]$.
 Detector = power averaging (rms) or sample detector (whn rms not available).
 Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 Sweep time = auto couple.
 Employ trace averaging (rms) mode over a minimum of 100 traces.
 Use the peak marker function to determine the maximum amplitude level.
 If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	2.64	≤8.00	PASS
		2437	2.88	≤8.00	PASS
		2462	3.79	≤8.00	PASS
11G	Ant1	2412	-0.01	≤8.00	PASS
		2437	-0.52	≤8.00	PASS
		2462	-0.17	≤8.00	PASS
11N20SISO	Ant1	2412	-1.83	≤8.00	PASS
		2437	-1.39	≤8.00	PASS
		2462	-2.54	≤8.00	PASS
11N40SISO	Ant1	2422	-3.79	≤8.00	PASS
		2437	-2.79	≤8.00	PASS
		2452	-4.19	≤8.00	PASS

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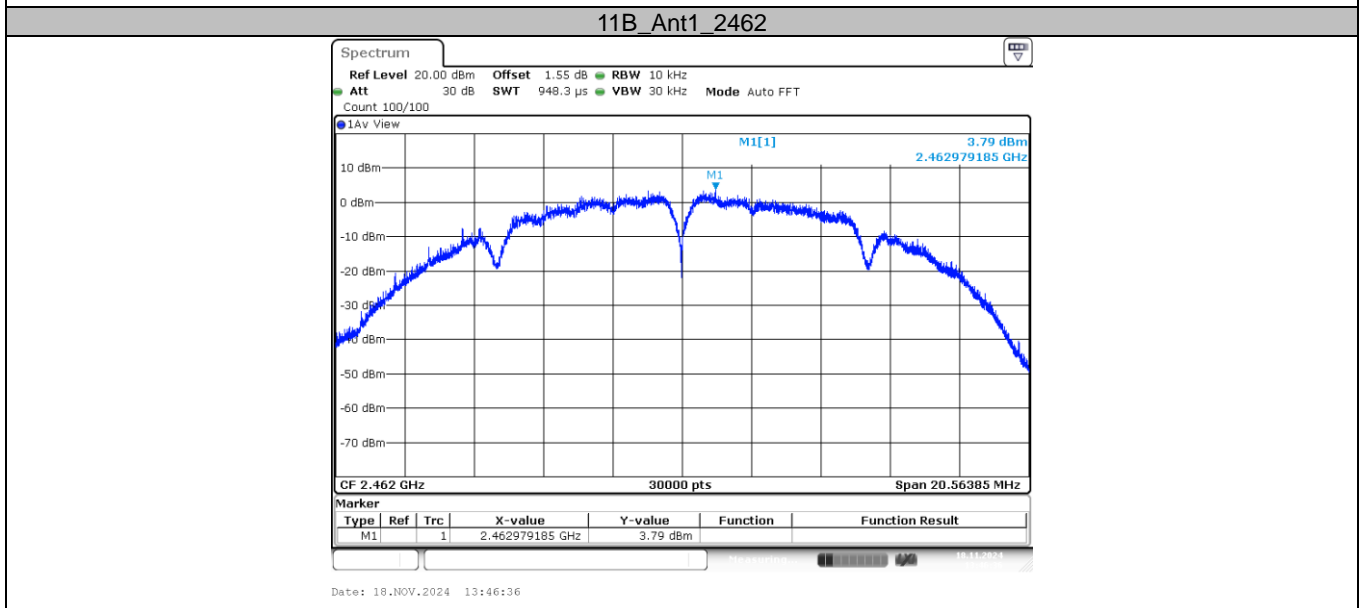
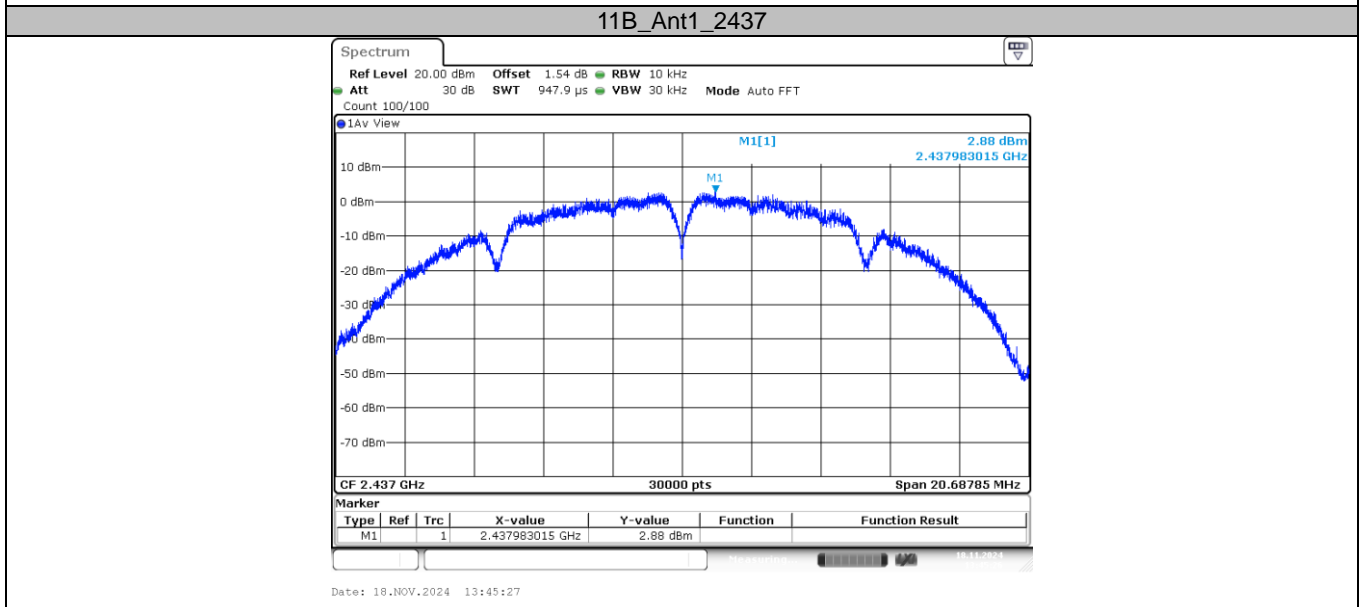
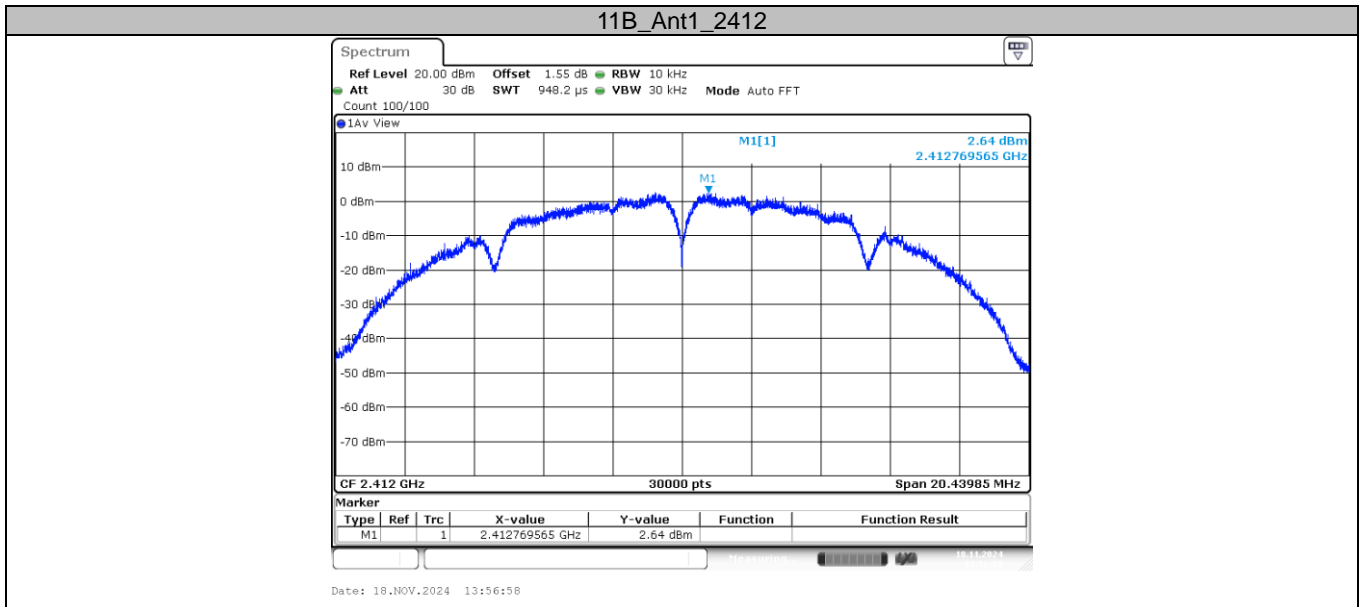
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TRF No: CTC-TR-057_A1

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Test plot as follows:



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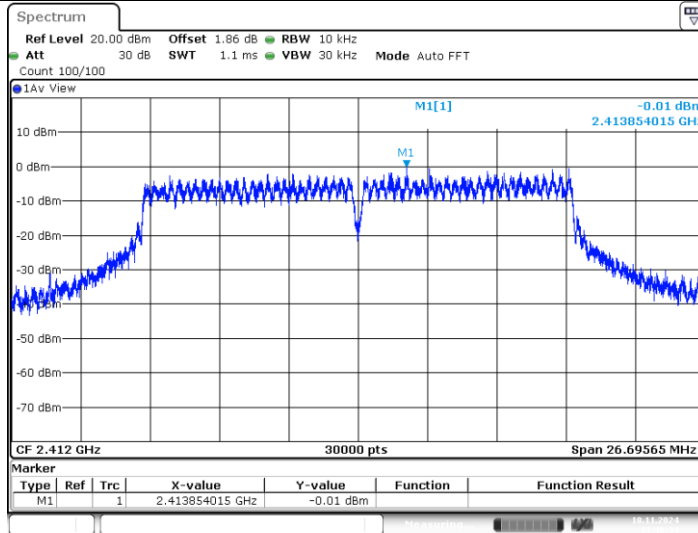
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Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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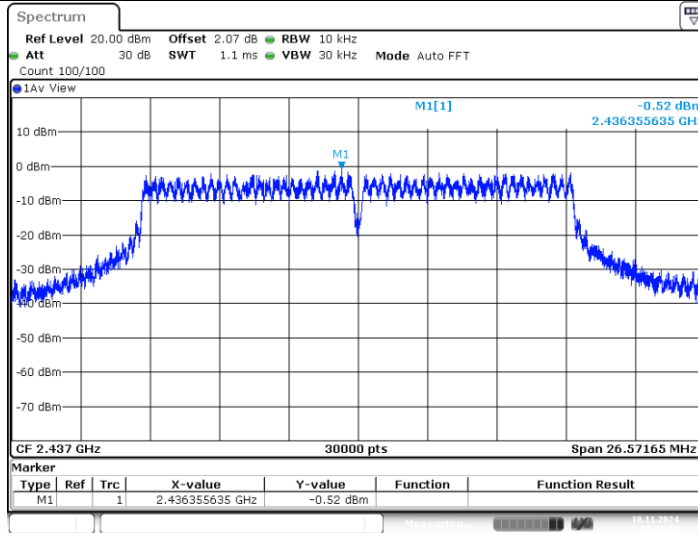


11G_Ant1_2412



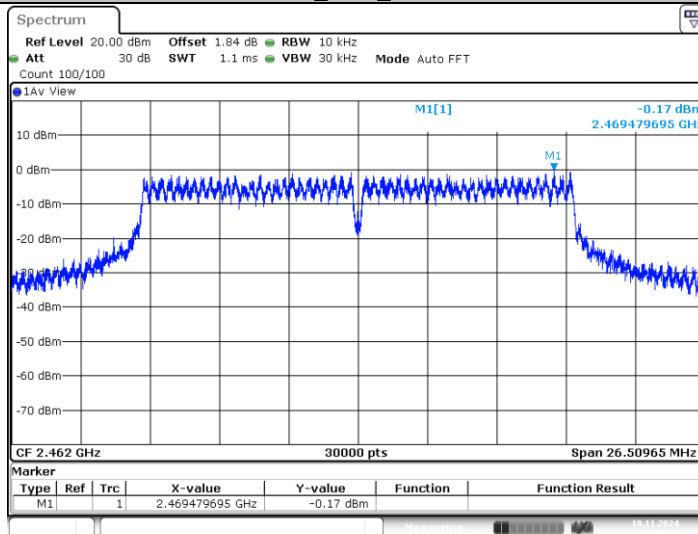
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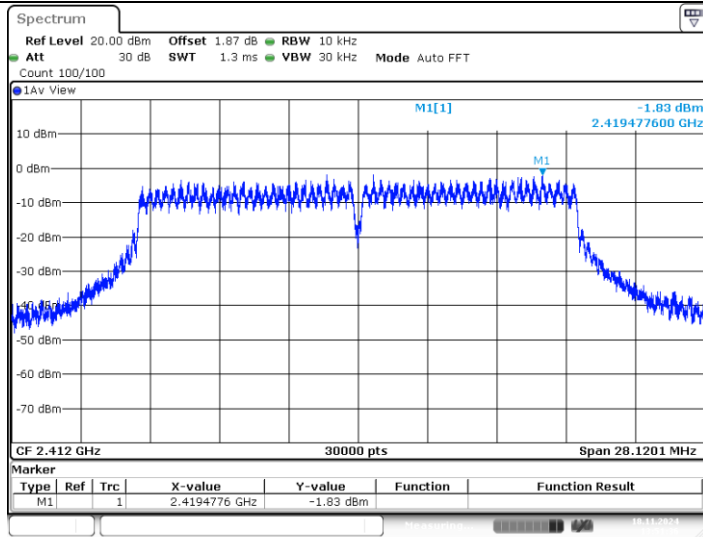
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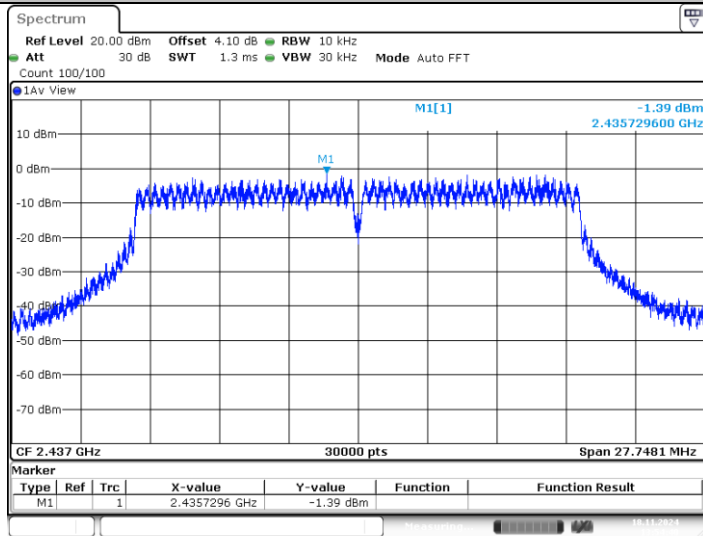
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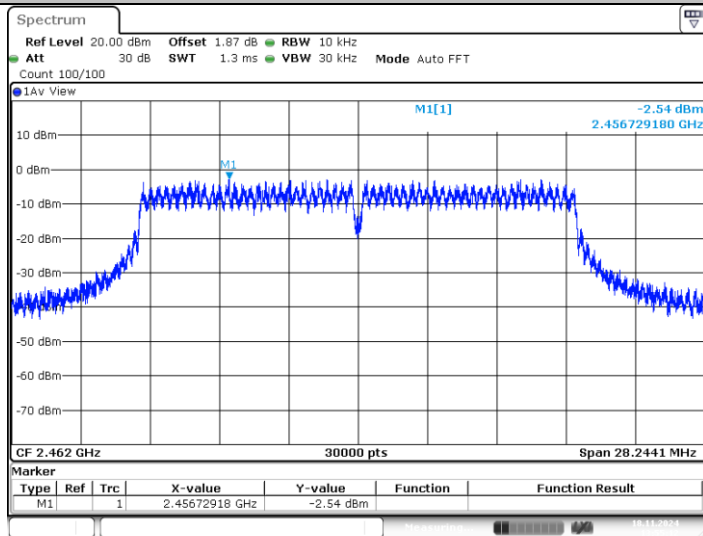
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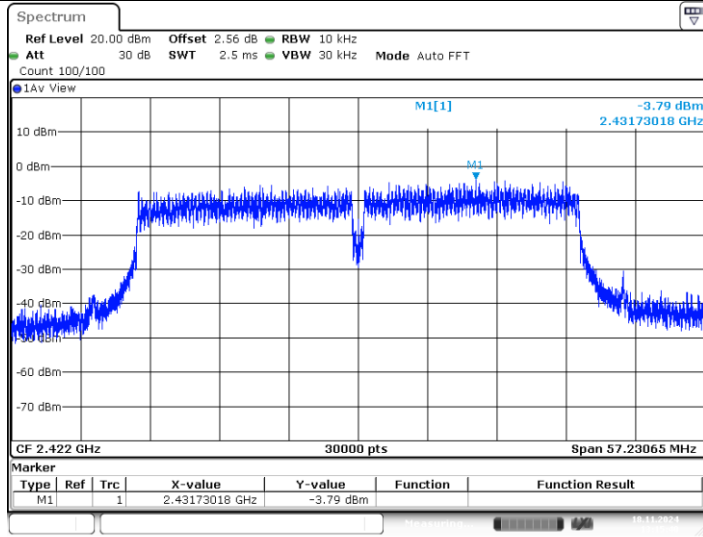
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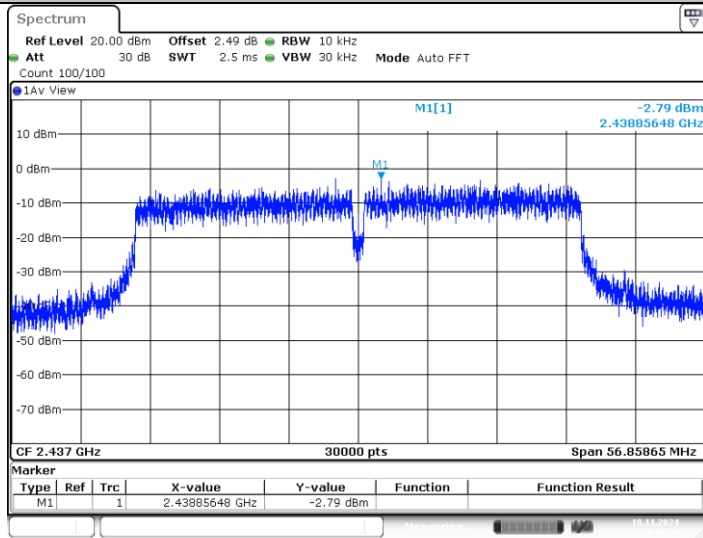
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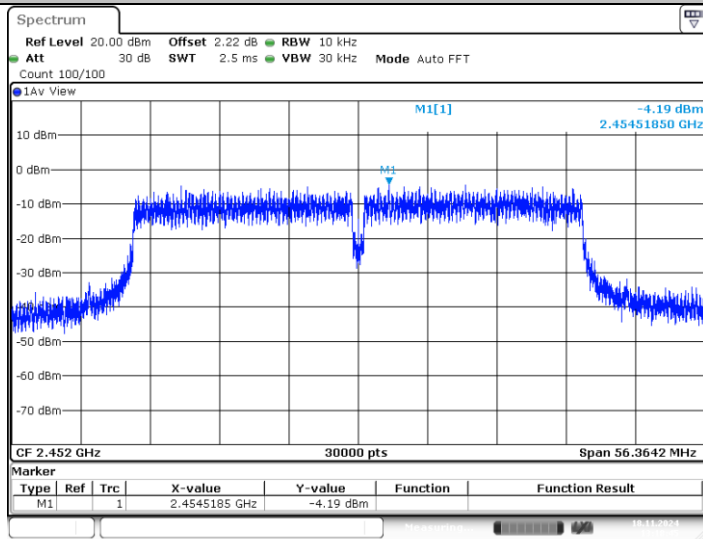
Date: 18.NOV.2024 13:15:40

11N40SISO_Ant1_2437



Date: 18.NOV.2024 13:17:27

11N40SISO_Ant1_2452



Date: 18.NOV.2024 13:18:44

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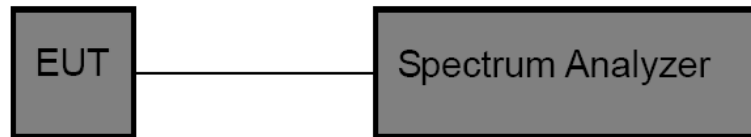


3.8. Duty Cycle

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**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	12.42	12.57	98.81	0.08	1
		2437	12.42	12.53	99.12	0.08	1
		2462	12.42	12.57	98.81	0.08	1
11G	Ant1	2412	2.06	2.24	91.96	0.49	1
		2437	2.06	2.35	87.66	0.49	1
		2462	2.06	2.23	92.38	0.49	1
11N20SISO	Ant1	2412	1.92	2.09	91.87	0.52	1
		2437	1.92	3.49	55.01	0.52	1
		2462	1.92	2.09	91.87	0.52	1
11N40SISO	Ant1	2422	0.94	1.20	78.33	1.06	3
		2437	0.94	1.18	79.66	1.06	3
		2452	0.94	1.11	84.68	1.06	3

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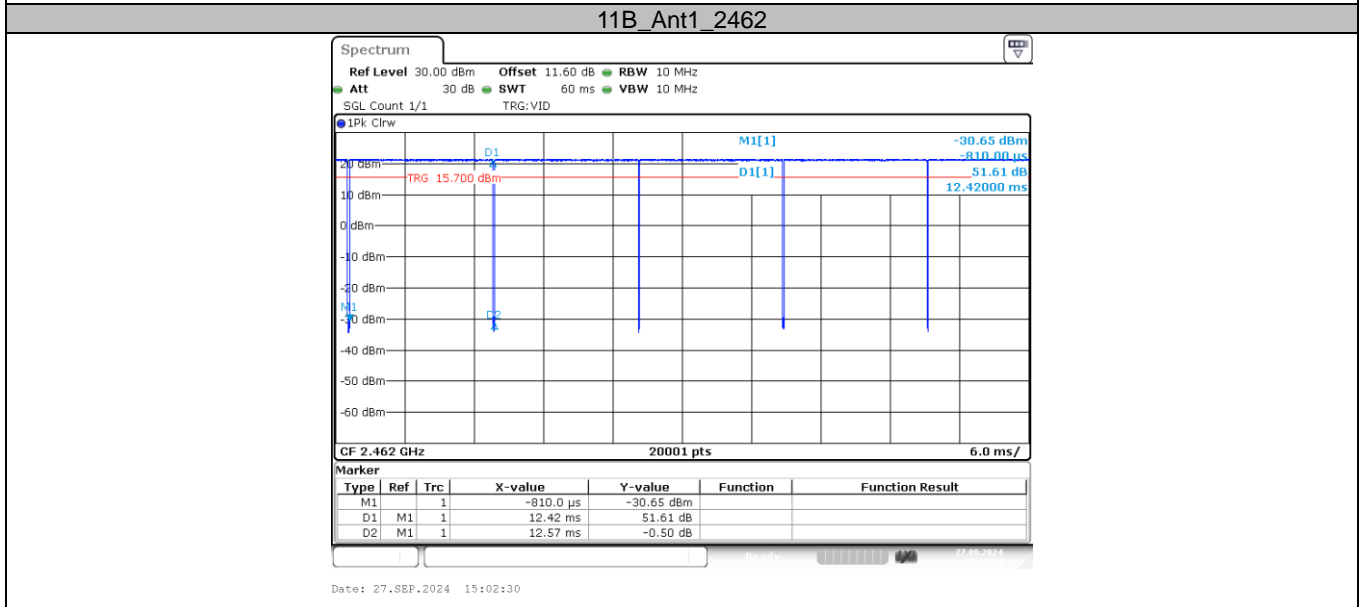
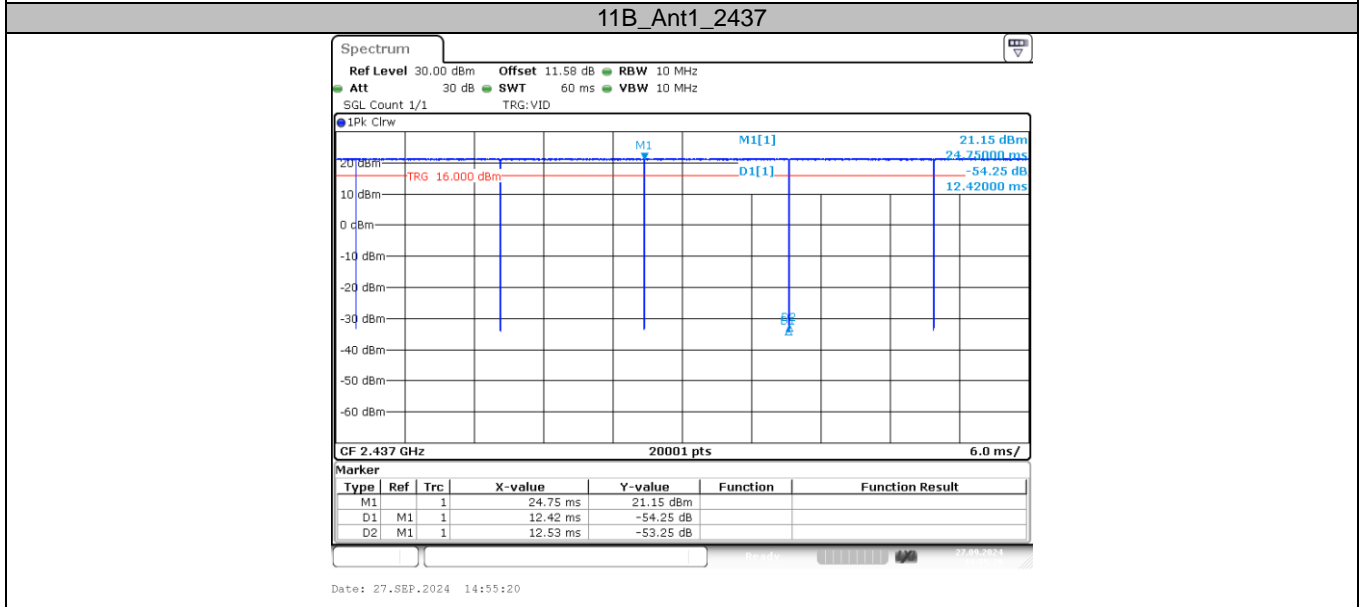
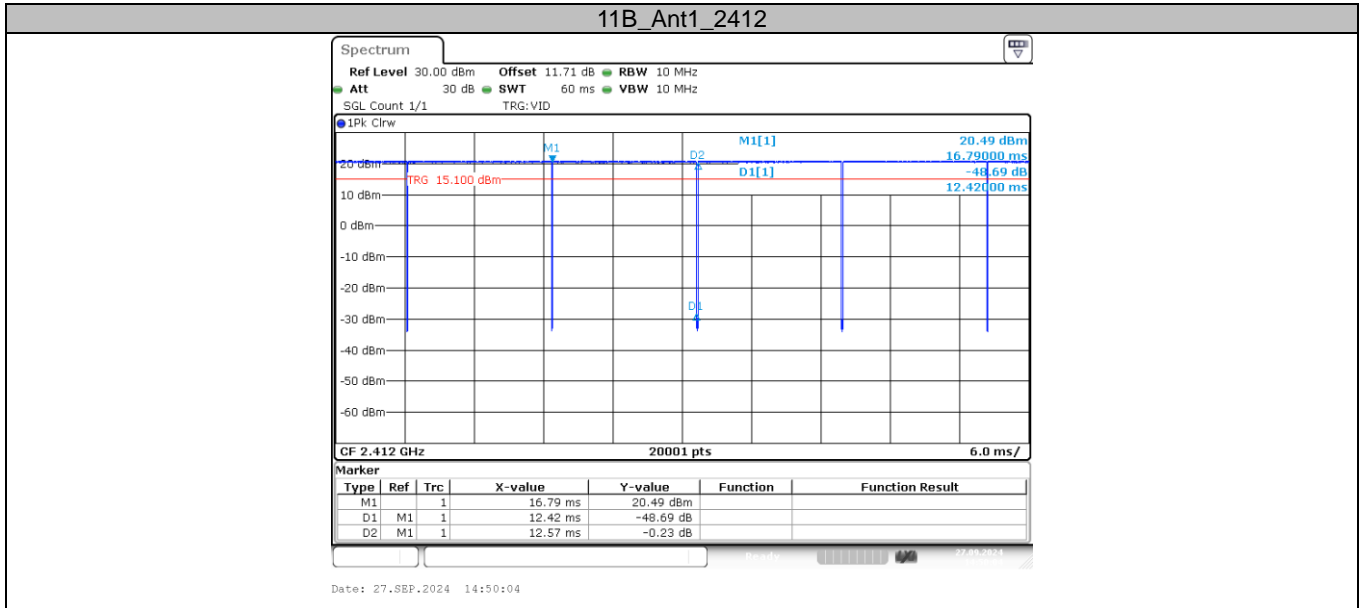
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Test plot as follows:



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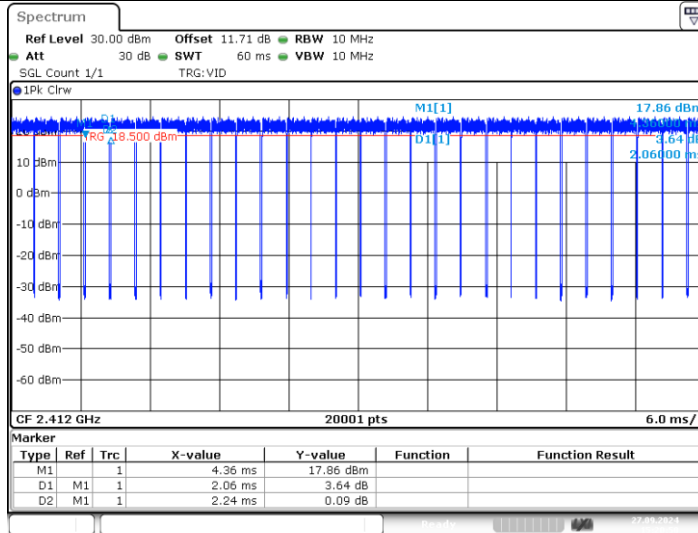
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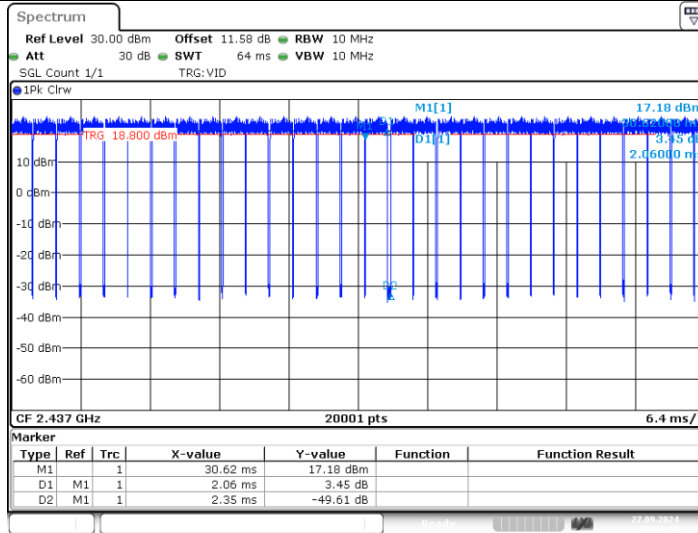


11G_Ant1_2412



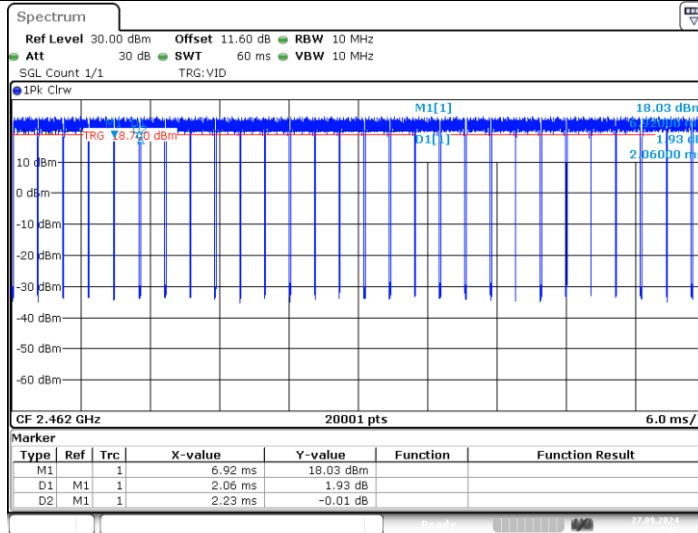
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11G_Ant1_2437



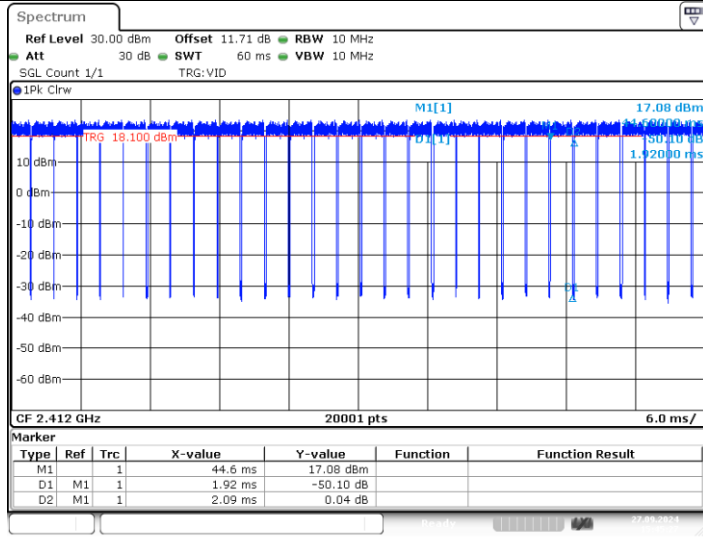
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11G_Ant1_2462



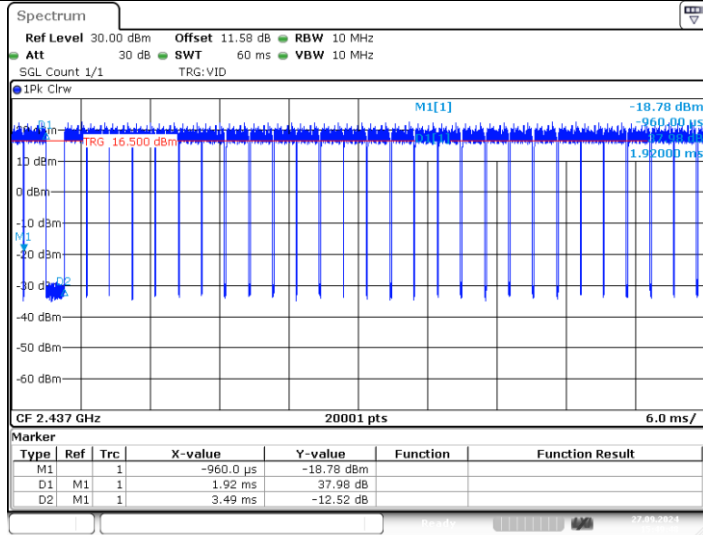
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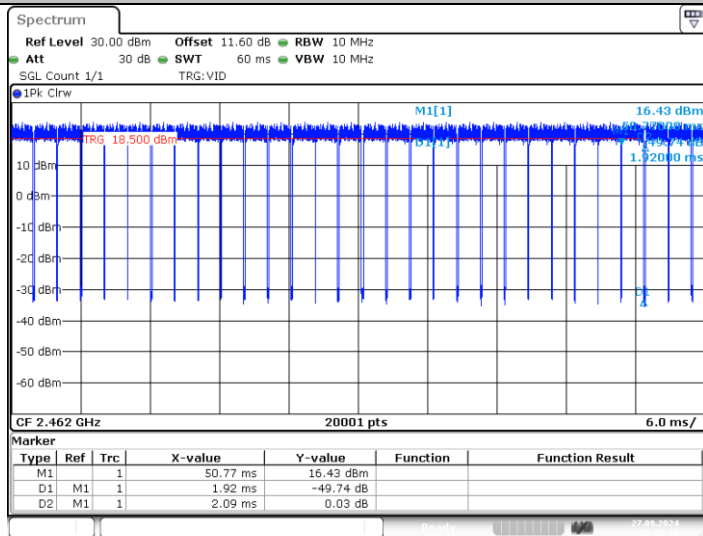
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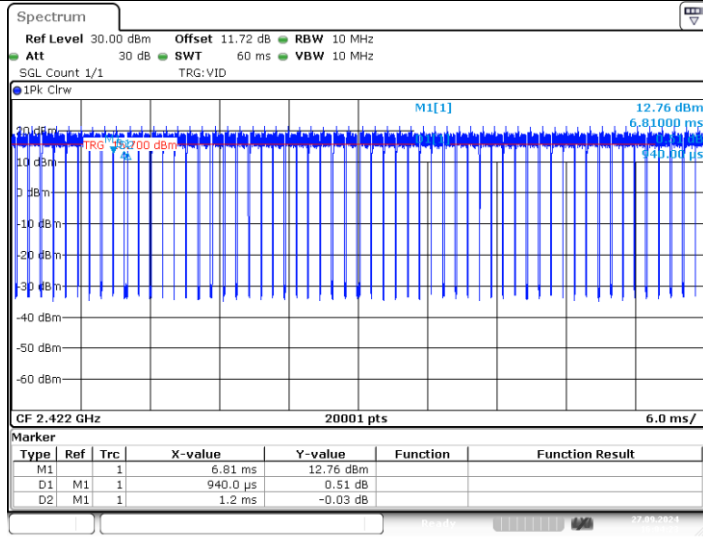
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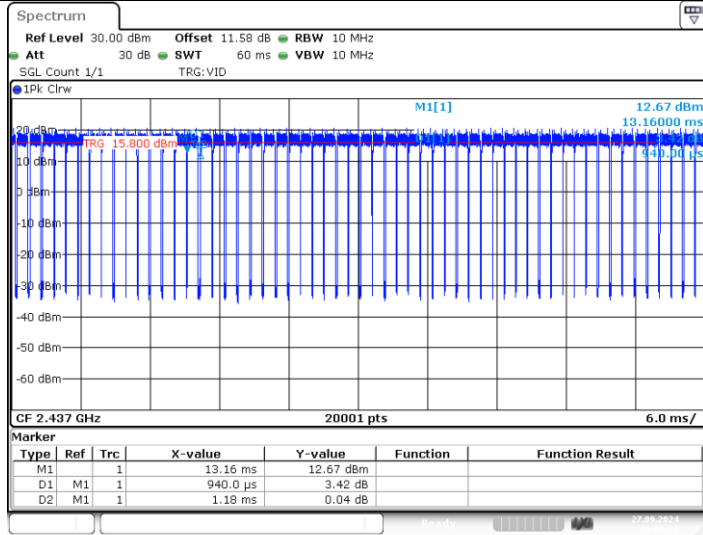
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11N40SISO_Ant1_2422



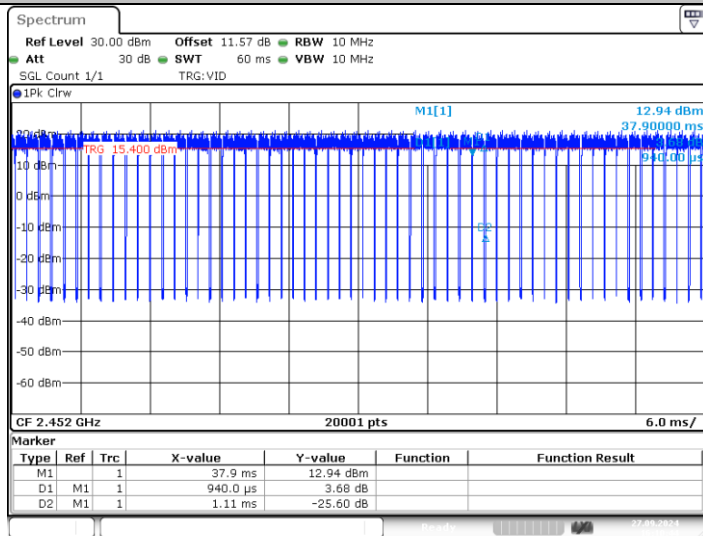
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11N40SISO_Ant1_2437



Date: 27.SEP.2024 16:06:59

11N40SISO_Ant1_2452



Date: 27.SEP.2024 16:10:45

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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*****