

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX N(HT20) Mode 2412 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	79.95	-21.47	58.48	74.00	-15.52	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.31	-26.12	53.19	74.00	-20.81	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	79.01	-26.12	52.89	74.00	-21.11	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.62	-26.12	52.50	74.00	-21.50	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX N(HT20) Mode 2462 MHz			
1	2483.5	H	78.38	-25.29	53.09	74.00	-20.91	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.35	-25.29	54.06	74.00	-19.94	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX N(HT40) Mode 2422 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	79.32	-21.47	57.85	74.00	-16.15	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	78.01	-26.12	51.89	74.00	-22.11	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	76.21	-21.47	54.74	74.00	-19.26	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.62	-26.12	52.50	74.00	-21.50	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX N(HT40) Mode 2452 MHz			
1	2483.5	H	79.96	-25.29	54.67	74.00	-19.33	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	81.05	-25.29	55.76	74.00	-18.24	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

Modulation Type:802.11b

Channel 1 / 2412 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4824.00	H	57.32	51.30	-1.88	55.44	49.42	74	54	-18.56
7236.00	H	42.21	---	7.80	50.01	---	74	54	-23.99
---	H	---	---	---	---	---	---	---	---
4824.00	V	55.01	---	-1.88	53.13	---	74	54	-20.87
7236.00	V	41.68	---	7.80	42.57	---	74	54	-21.43
---	V	---	---	---	---	---	---	---	---

Channel 6 / 2437 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	58.94	52.31	-1.59	57.35	50.72	74	54	-16.65
7311.00	H	43.24	---	8.10	51.34	---	74	54	-22.66
---	H	---	---	---	---	---	---	---	---
4874.00	V	56.21	---	-1.59	54.62	---	74	54	-19.38
7311.00	V	41.01	---	8.10	49.11	---	74	54	-24.89
---	V	---	---	---	---	---	---	---	---

Channel 11 / 2462 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4924.00	H	57.06	52.00	-1.30	55.76	50.70	74	54	-18.24
7386.00	H	43.08	---	9.00	52.08	---	74	54	-21.92
---	H	---	---	---	---	---	---	---	---
4924.00	V	55.78	---	-1.30	54.48	---	74	54	19.52
7386.00	V	43.18	---	9.00	52.18	---	74	54	-21.82
---	V	---	---	---	---	---	---	---	---

Notes:

- 1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 2). Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3). Worst case data at 1Mbps at IEEE 802.11b.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

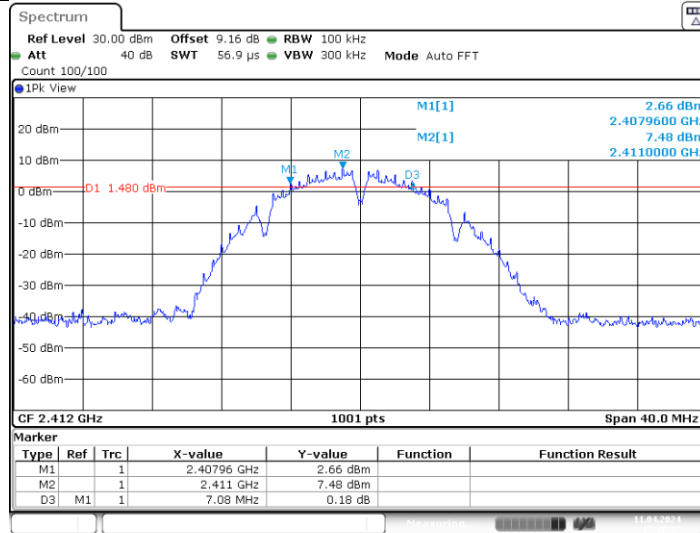
APPENDIXE - BANDWIDTH

1. DTS Bandwidth

TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	7.08	2407.96	2415.04	0.5	PASS
	2437	8.08	2433.44	2441.52	0.5	PASS
	2462	9.04	2457.00	2466.04	0.5	PASS
11G	2412	15.68	2403.84	2419.52	0.5	PASS
	2437	13.88	2429.44	2443.32	0.5	PASS
	2462	15.72	2453.84	2469.56	0.5	PASS
11N20SISO	2412	16.00	2403.48	2419.48	0.5	PASS
	2437	16.40	2428.48	2444.88	0.5	PASS
	2462	17.72	2453.08	2470.80	0.5	PASS
11N40SISO	2422	32.64	2406.96	2439.60	0.5	PASS
	2437	35.12	2419.48	2454.60	0.5	PASS
	2452	28.80	2440.72	2469.52	0.5	PASS

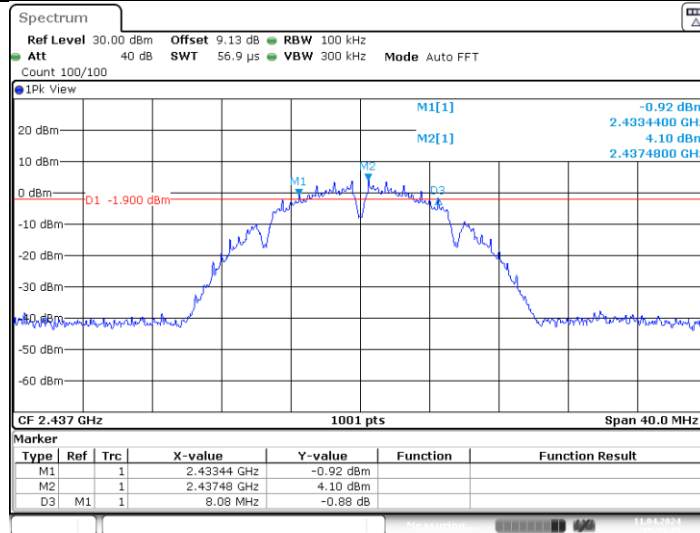
Test Graphs

11B_Ant1_2412



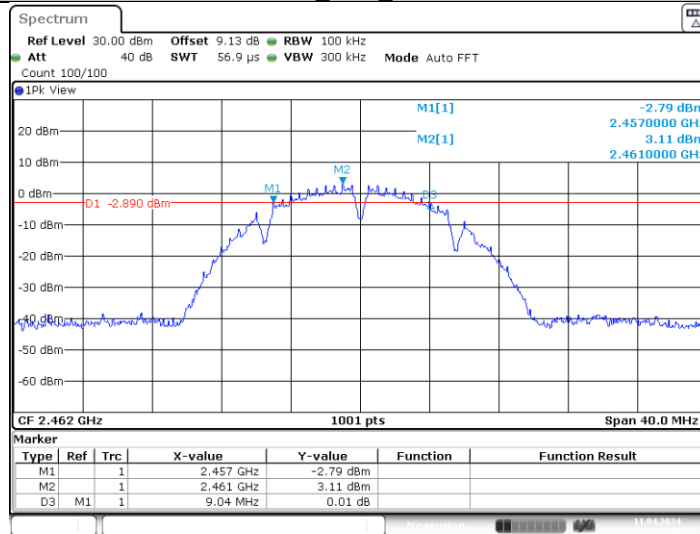
Date: 11.APR.2024 15:30:17

11B_Ant1_2437



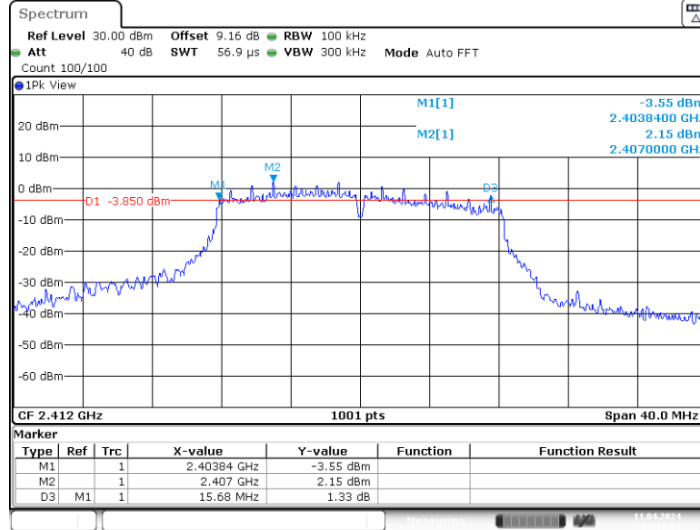
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11B_Ant1_2462

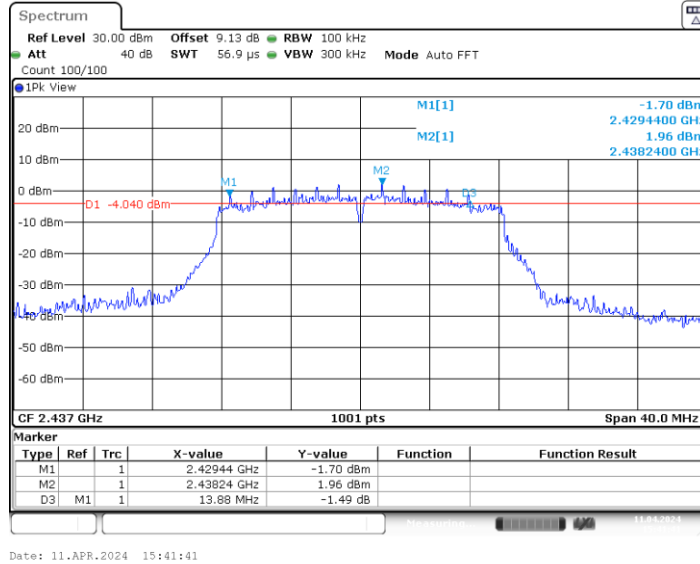


Date: 11.APR.2024 15:35:36

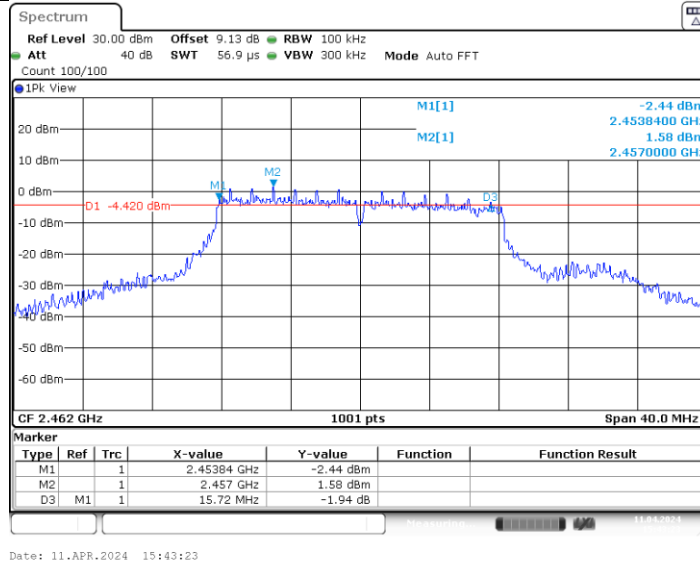
11G_Ant1_2412



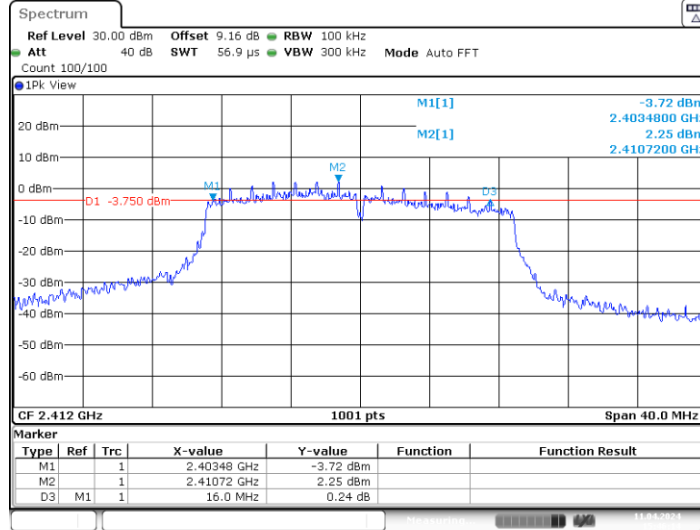
11G_Ant1_2437



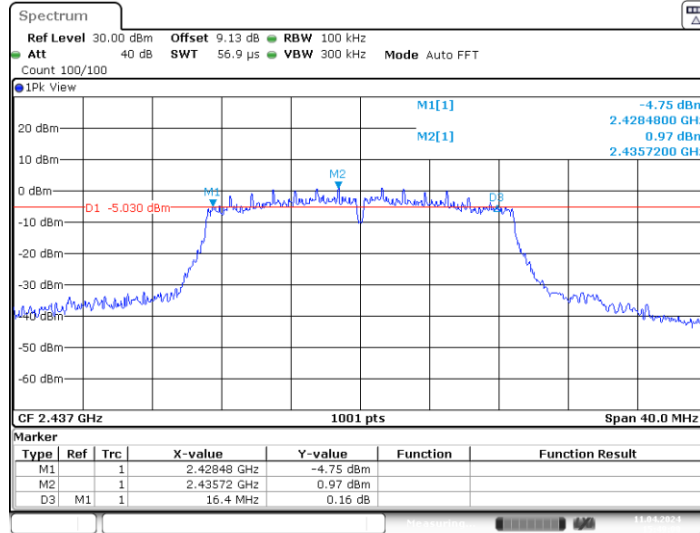
11G_Ant1_2462



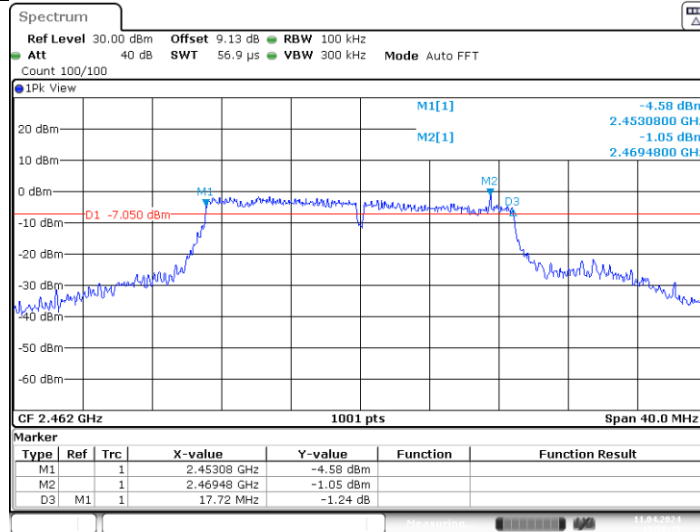
11N20SISO_Ant1_2412



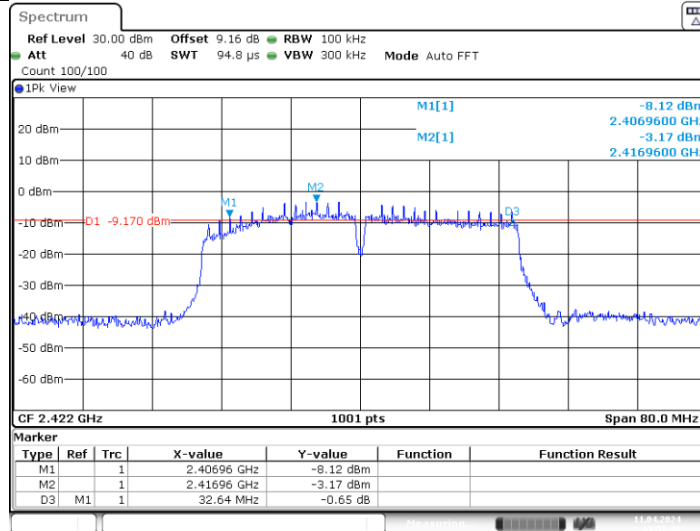
11N20SISO_Ant1_2437



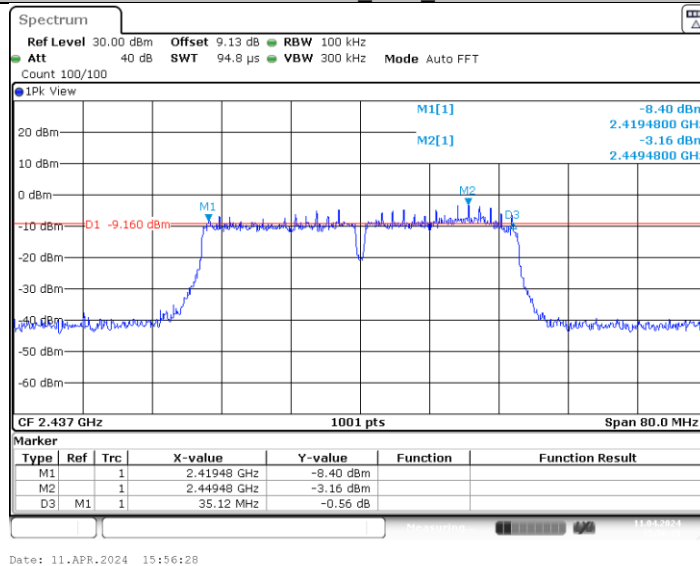
11N20SISO_Ant1_2462



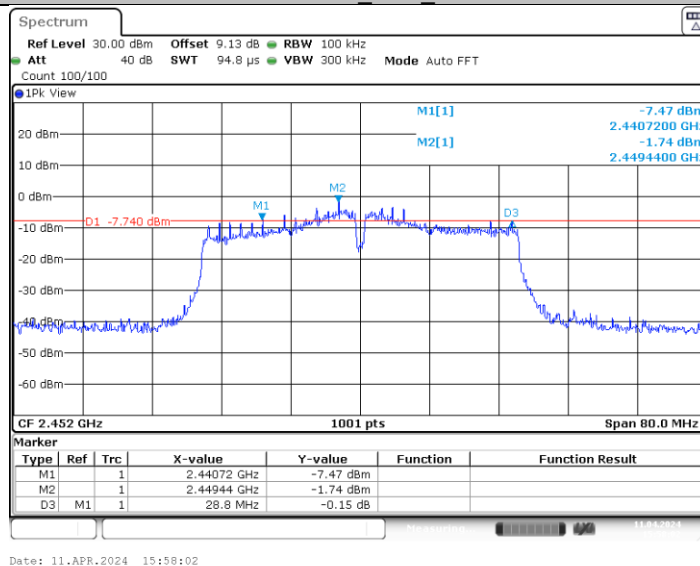
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

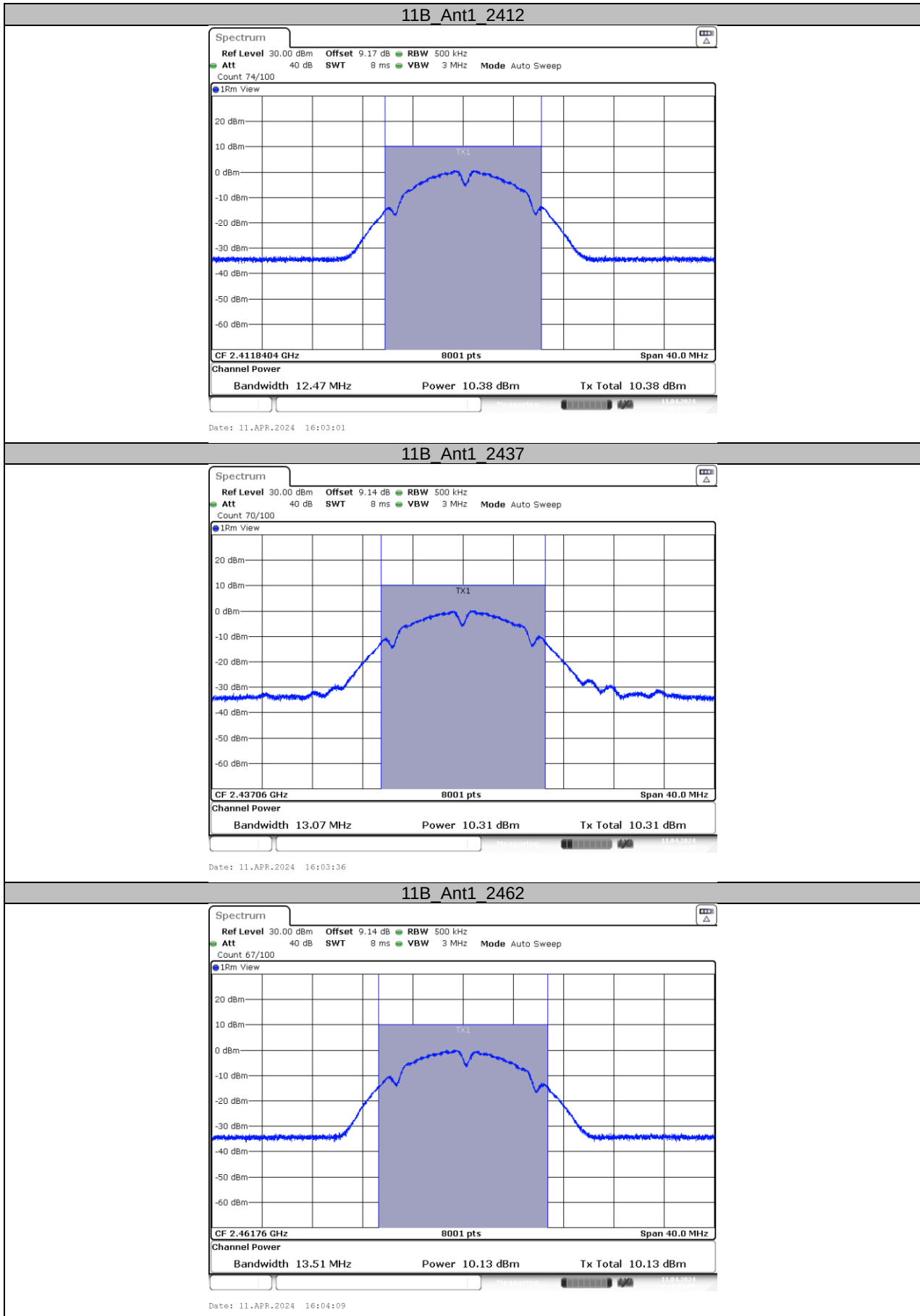


APPENDIX F - MAXIMUM OUTPUT POWER

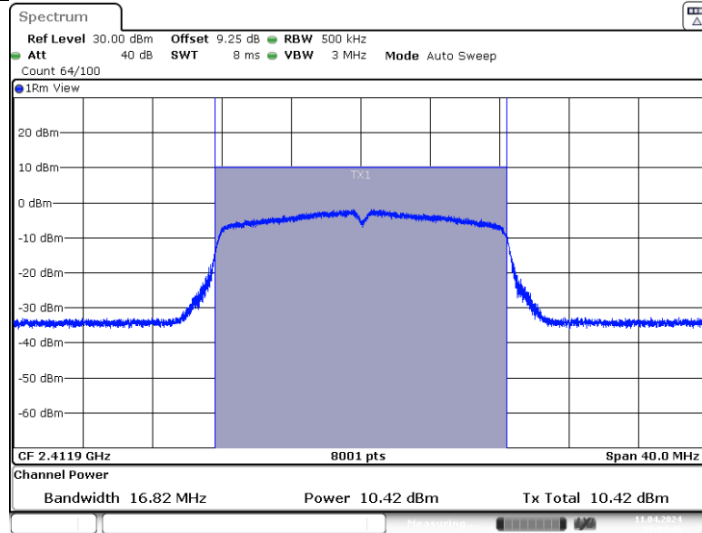
Test Mode	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
11B	2412	10.37	99.76	0.01	10.38	≤30.00
	2437	10.30	99.76	0.01	10.31	≤30.00
	2462	10.12	99.76	0.01	10.13	≤30.00
11G	2412	10.33	97.90	0.09	10.42	≤30.00
	2437	10.21	97.90	0.09	10.30	≤30.00
	2462	10.06	97.20	0.12	10.18	≤30.00
11N20SISO	2412	10.26	97.01	0.13	10.39	≤30.00
	2437	10.11	97.74	0.10	10.21	≤30.00
	2462	9.98	97.01	0.13	10.11	≤30.00
11N40SISO	2422	10.37	94.20	0.26	10.63	≤30.00
	2437	10.15	95.59	0.20	10.35	≤30.00
	2452	10.29	94.12	0.26	10.55	≤30.00

DC Factor = $10 \cdot \log(1 / \text{Duty Cycle})$

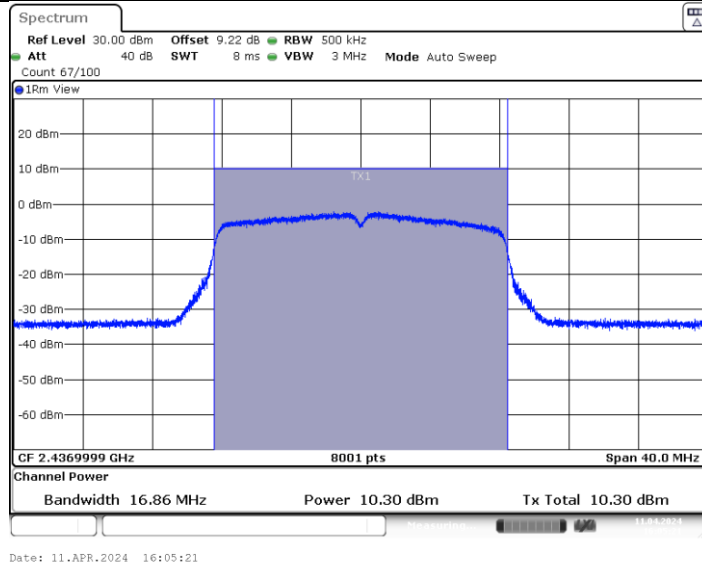
TEST GRAPHS AVERAGE



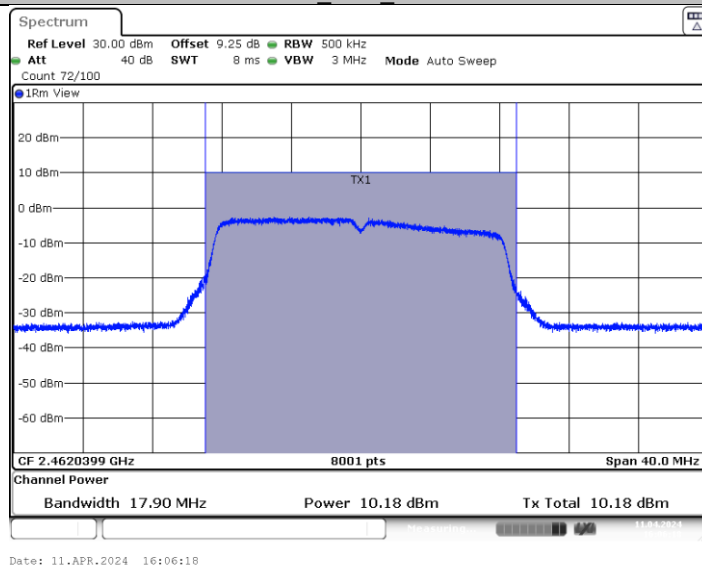
11G_Ant1_2412



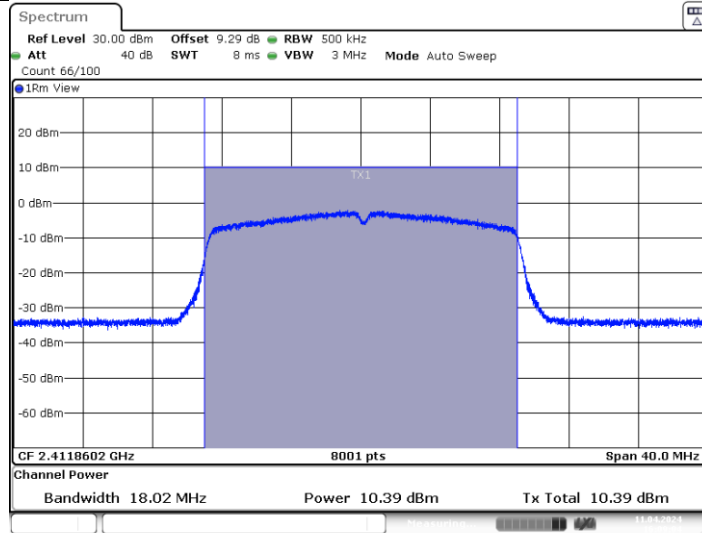
11G_Ant1_2437



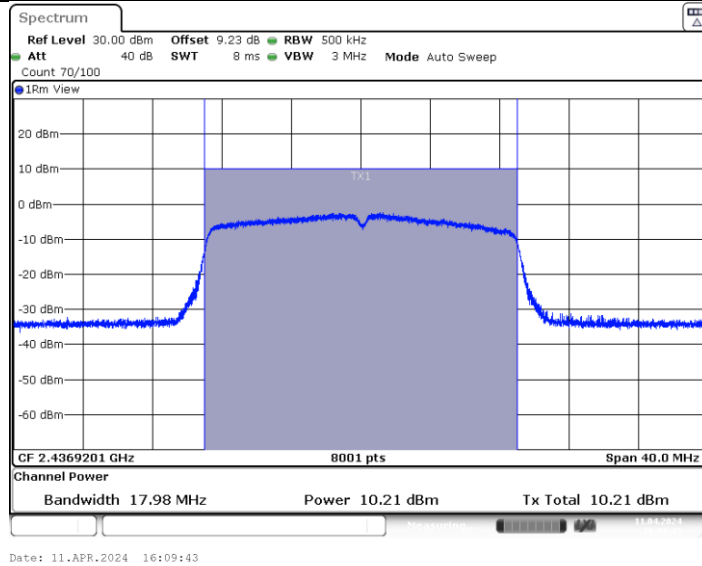
11G_Ant1_2462



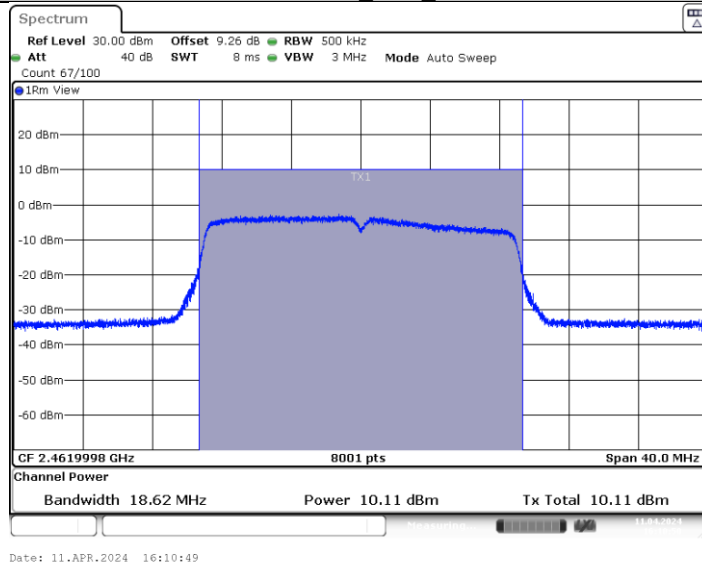
11N20SISO_Ant1_2412



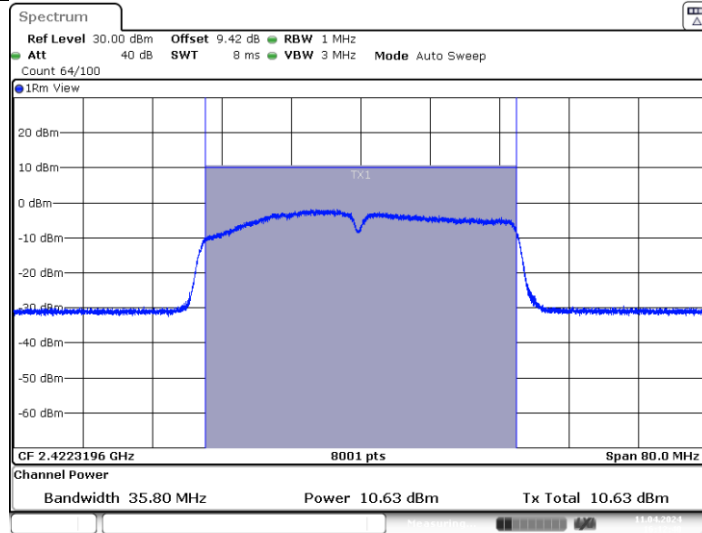
11N20SISO_Ant1_2437



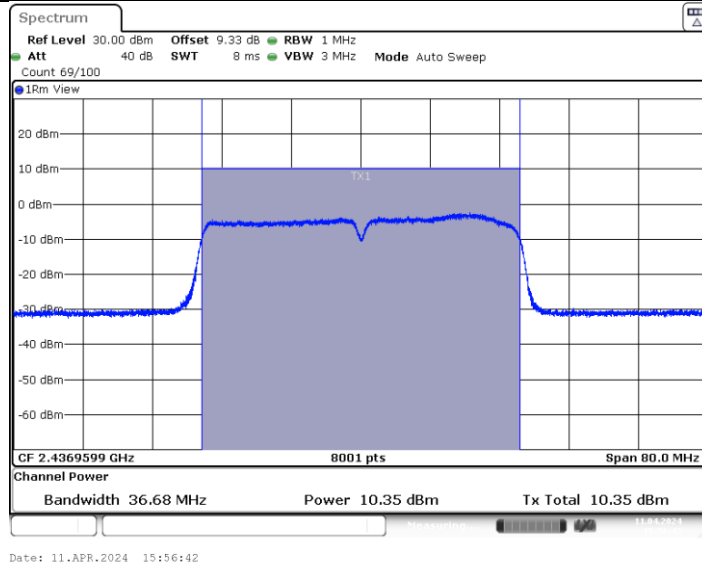
11N20SISO_Ant1_2462



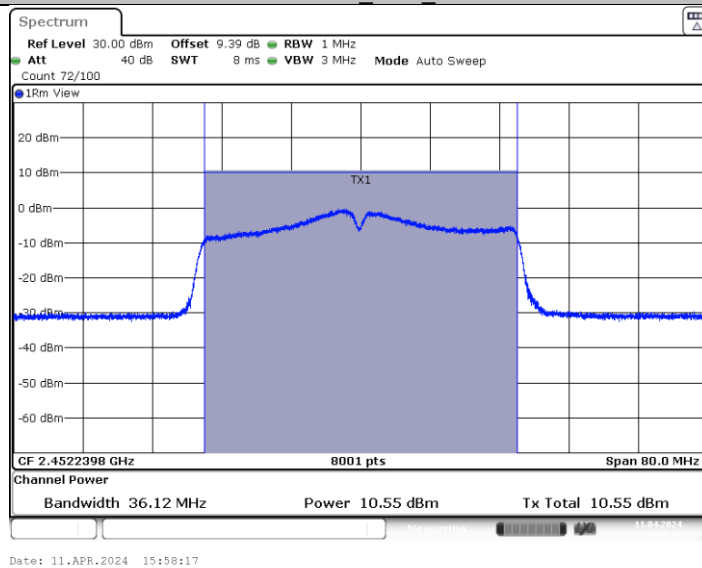
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



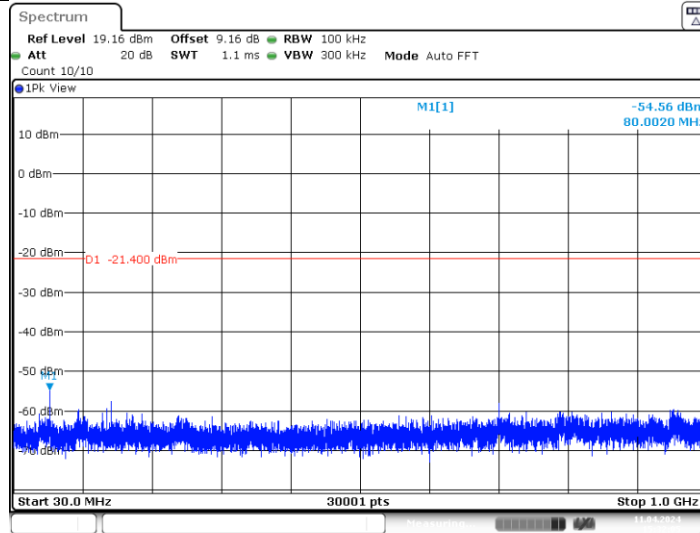
APPENDIXG - CONDUCTED SPURIOUS EMISSIONS

1. Conducted Spurious Emission

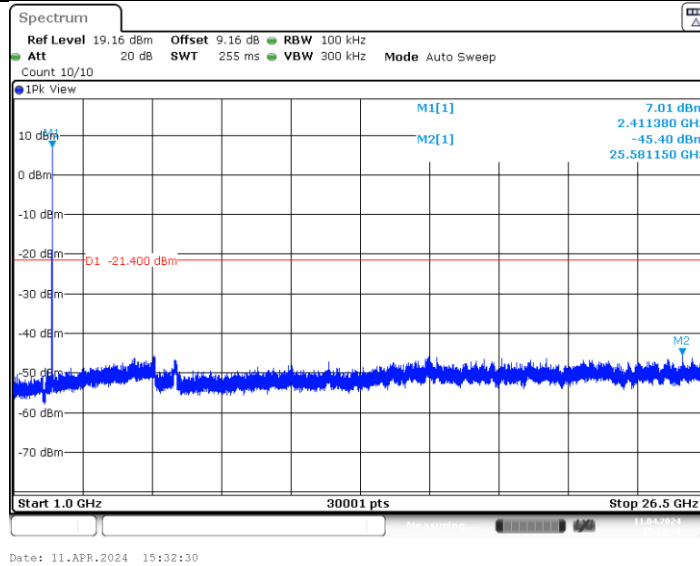
TestMode	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	30~1000	8.60	-54.56	≤ -21.4	PASS
		1000~26500	8.60	-45.4	≤ -21.4	PASS
	2437	30~1000	4.25	-55.84	≤ -25.75	PASS
		1000~26500	4.25	-44.68	≤ -25.75	PASS
	2462	30~1000	4.26	-55.68	≤ -25.74	PASS
		1000~26500	4.26	-45.35	≤ -25.74	PASS
11G	2412	30~1000	2.17	-55.44	≤ -27.83	PASS
		1000~26500	2.17	-45.69	≤ -27.83	PASS
	2437	30~1000	1.76	-54.5	≤ -28.24	PASS
		1000~26500	1.76	-45.51	≤ -28.24	PASS
	2462	30~1000	1.00	-55.82	≤ -29	PASS
		1000~26500	1.00	-40.7	≤ -29	PASS
11N20SISO	2412	30~1000	2.04	-56.07	≤ -27.96	PASS
		1000~26500	2.04	-44.9	≤ -27.96	PASS
	2437	30~1000	1.71	-56.51	≤ -28.29	PASS
		1000~26500	1.71	-45.76	≤ -28.29	PASS
	2462	30~1000	1.72	-56.24	≤ -28.28	PASS
		1000~26500	1.72	-45.52	≤ -28.28	PASS
11N40SISO	2422	30~1000	-2.55	-54.63	≤ -32.55	PASS
		1000~26500	-2.55	-44.05	≤ -32.55	PASS
	2437	30~1000	-3.13	-56.94	≤ -33.13	PASS
		1000~26500	-3.13	-45.57	≤ -33.13	PASS
	2452	30~1000	-0.95	-55.29	≤ -30.95	PASS
		1000~26500	-0.95	-40.05	≤ -30.95	PASS

Test Graphs

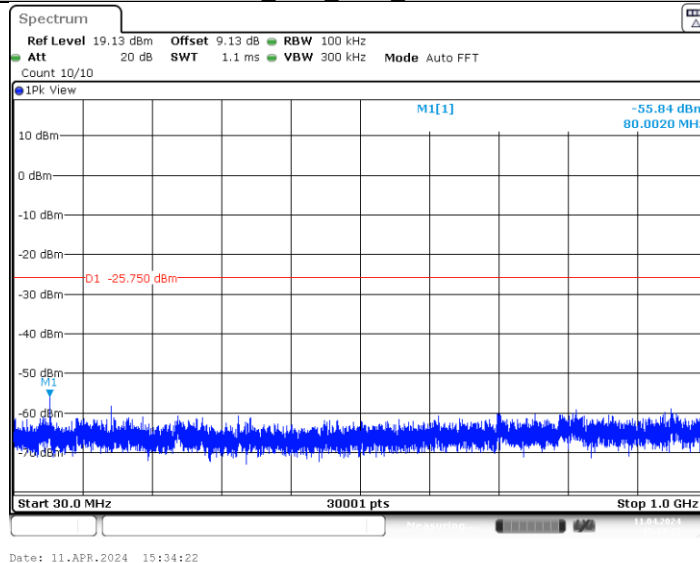
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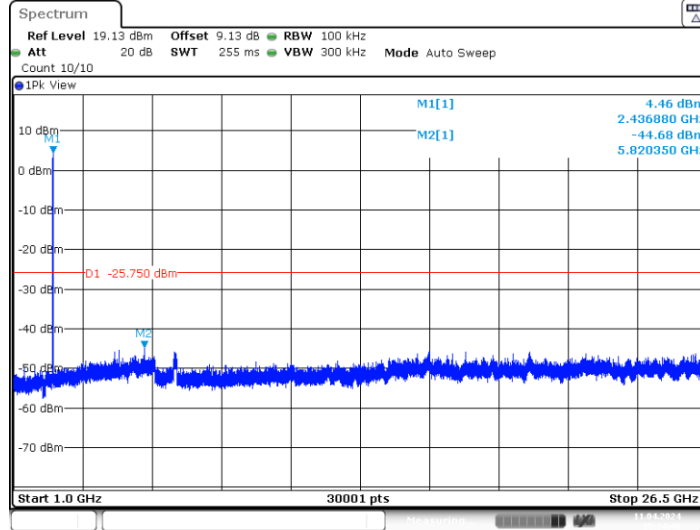
11B_Ant1_2412_1000~26500



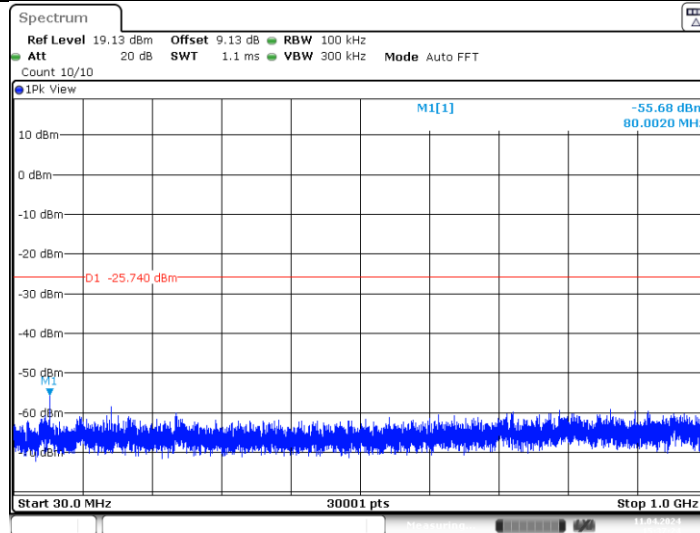
11B_Ant1_2437_30~1000



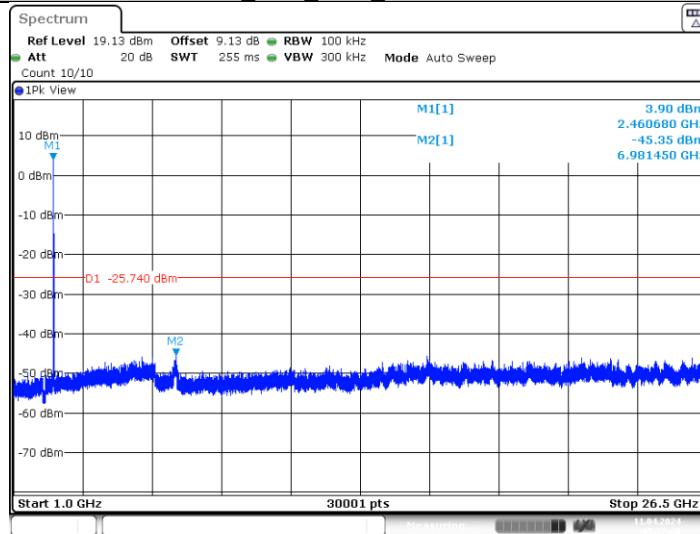
11B_Ant1_2437_1000~26500



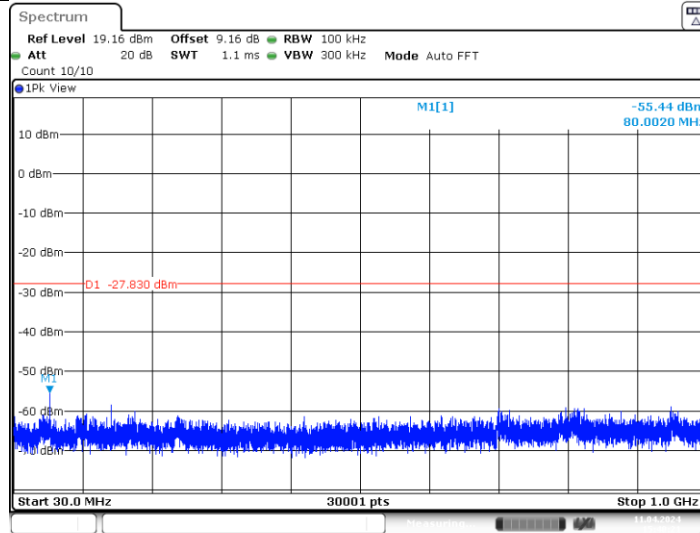
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

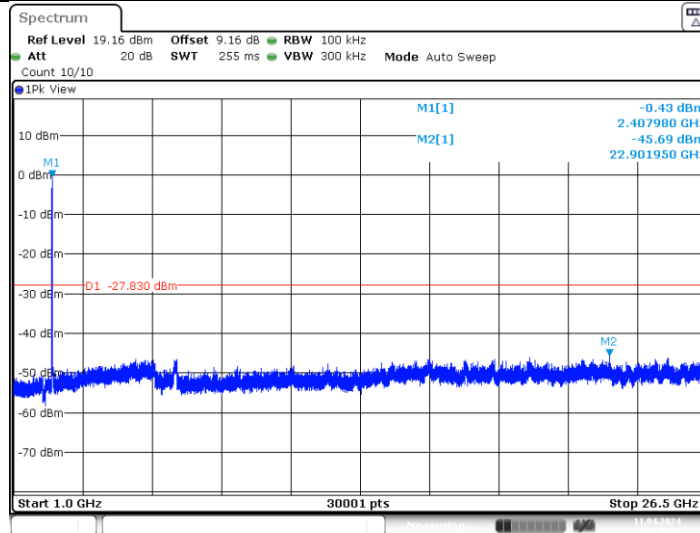


11G_Ant1_2412_30~1000



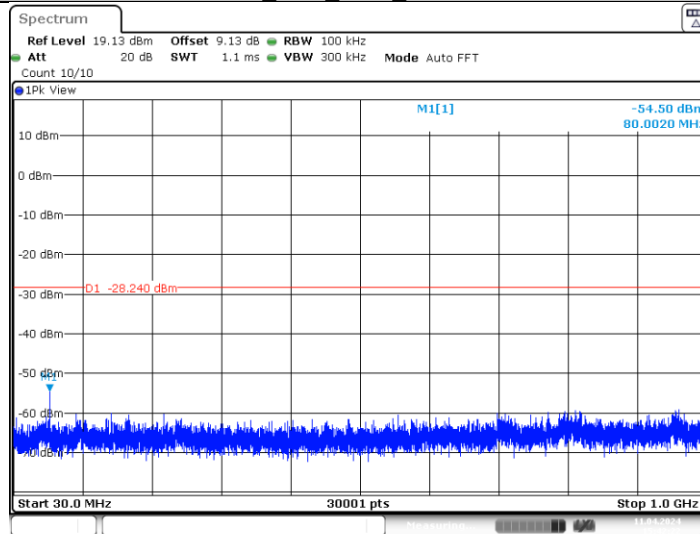
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11G_Ant1_2412_1000~26500



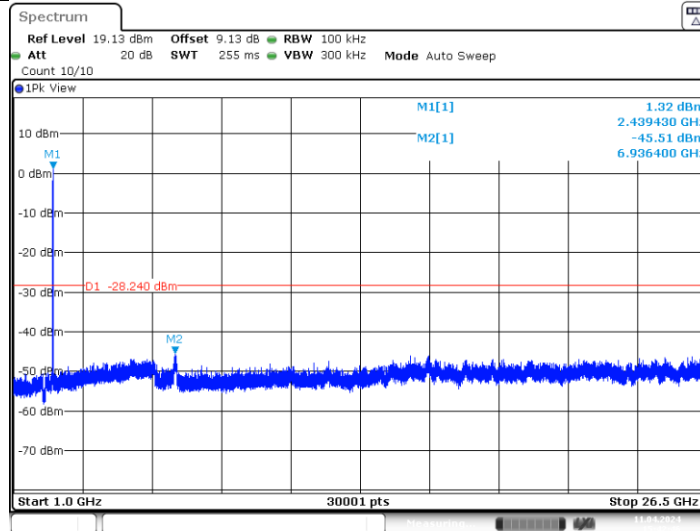
Date: 11.APR.2024 15:40:45

11G_Ant1_2437_30~1000



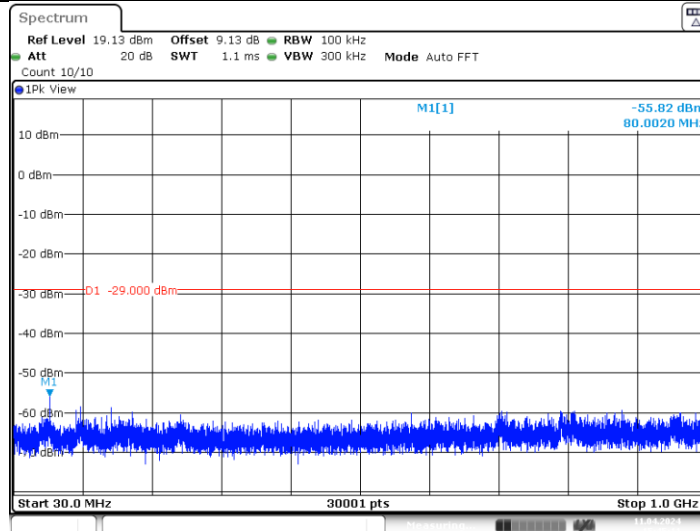
Date: 11.APR.2024 15:42:22

11G_Ant1_2437_1000~26500



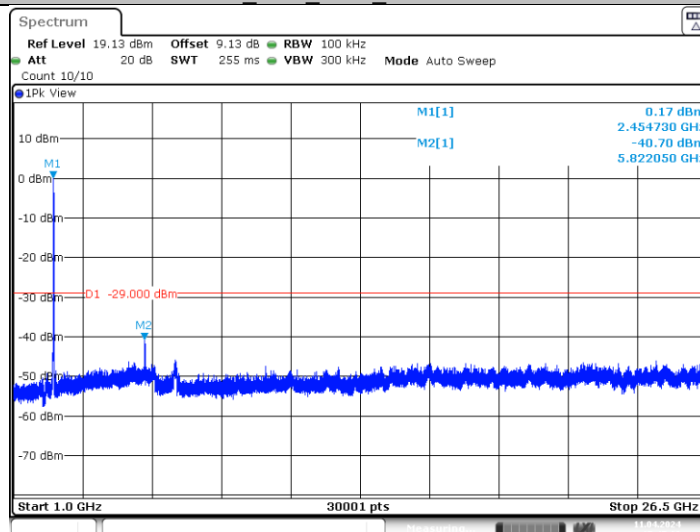
Date: 11.APR.2024 15:42:46

11G_Ant1_2462_30~1000



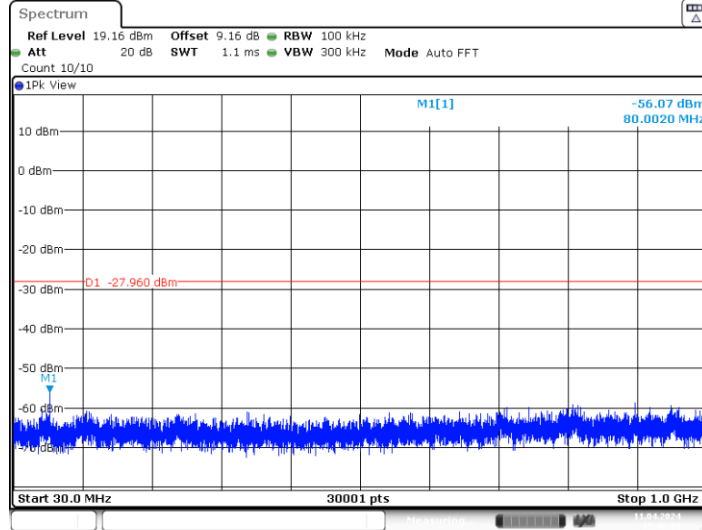
Date: 11.APR.2024 15:45:12

11G_Ant1_2462_1000~26500



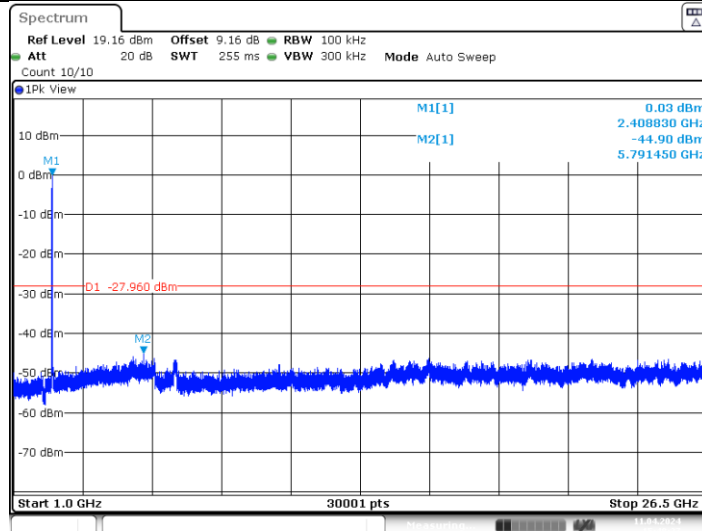
Date: 11.APR.2024 15:45:36

11N20SISO_Ant1_2412_30~1000



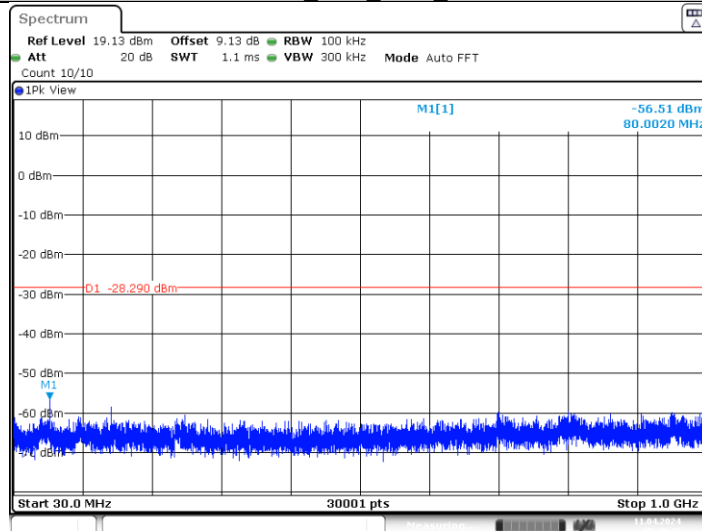
Date: 11.APR.2024 15:48:03

11N20SISO_Ant1_2412_1000~26500



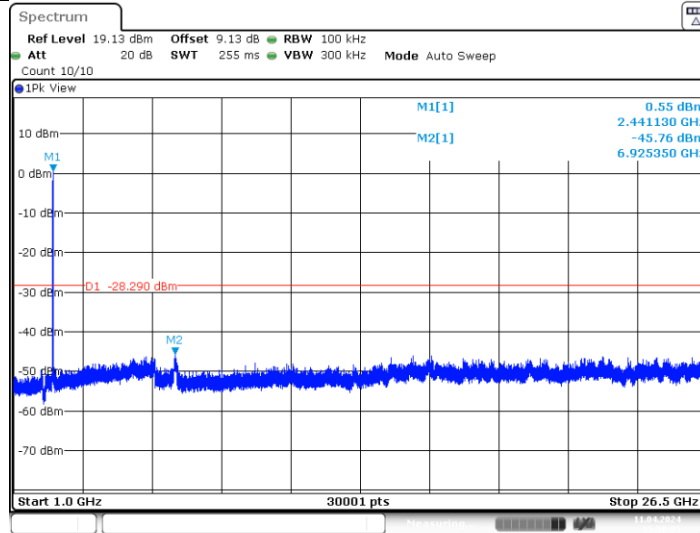
Date: 11.APR.2024 15:48:28

11N20SISO_Ant1_2437_30~1000



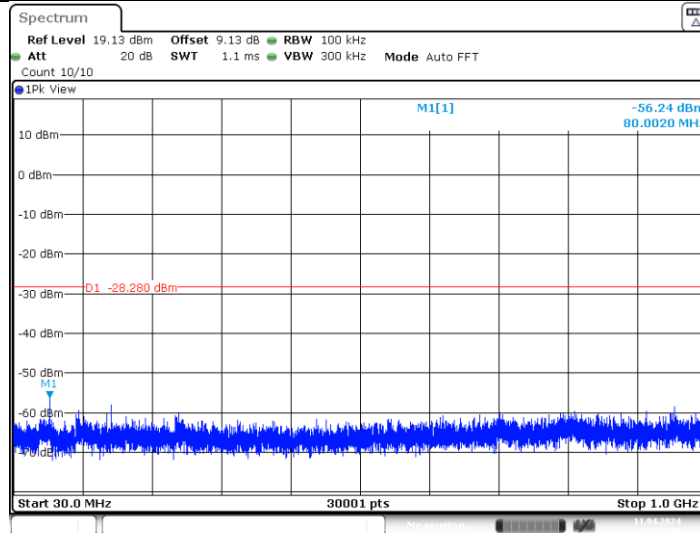
Date: 11.APR.2024 15:49:41

11N20SISO_Ant1_2437_1000~26500



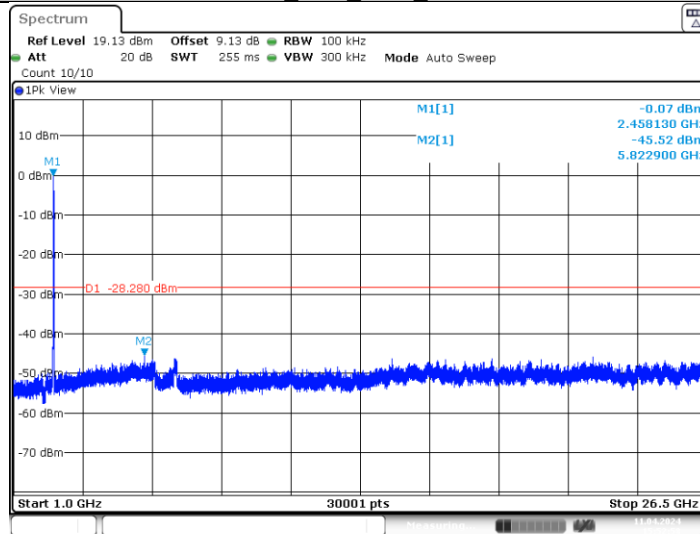
Date: 11.APR.2024 15:50:06

11N20SISO_Ant1_2462_30~1000



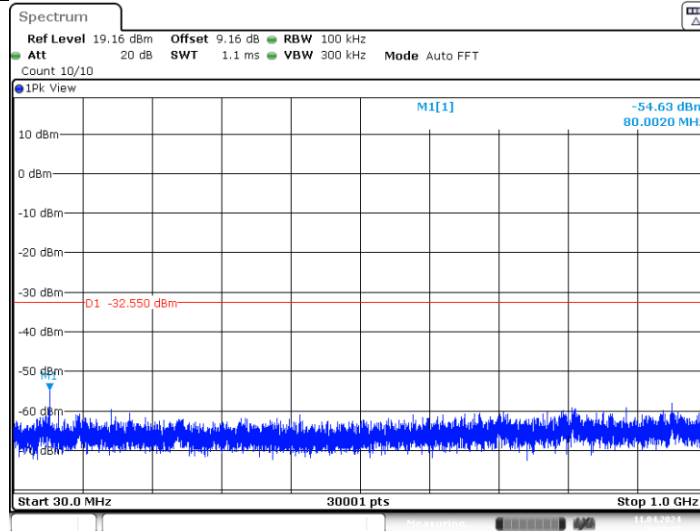
Date: 11.APR.2024 15:52:34

11N20SISO_Ant1_2462_1000~26500

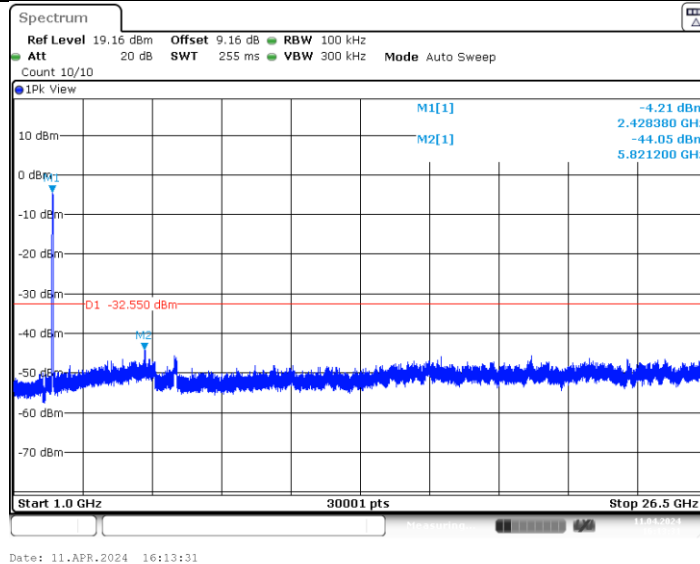


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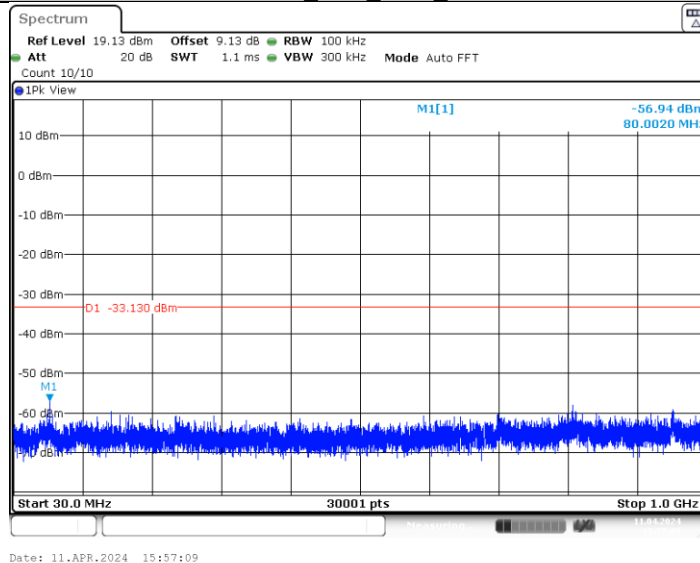
11N40SISO_Ant1_2422_30~1000



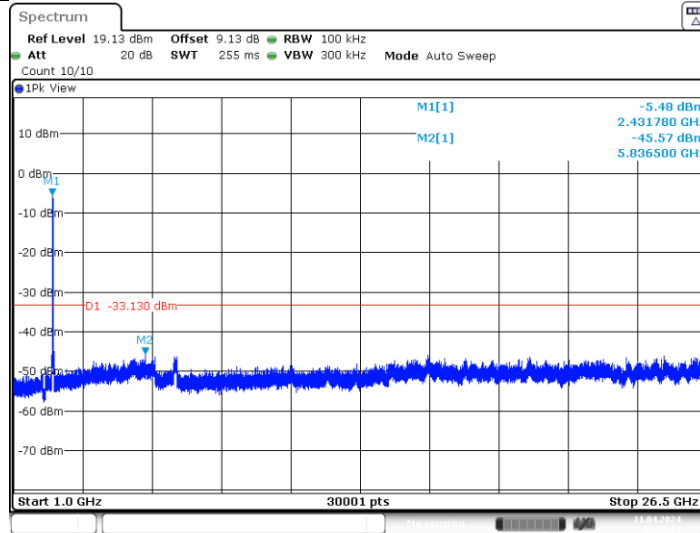
11N40SISO_Ant1_2422_1000~26500



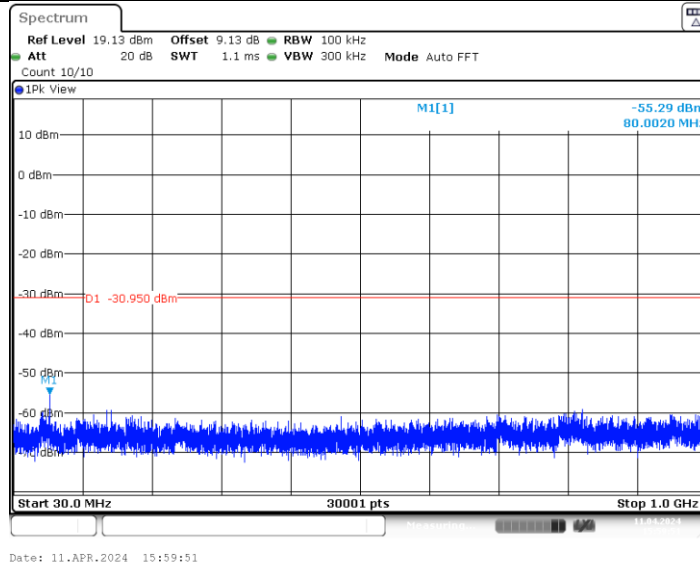
11N40SISO_Ant1_2437_30~1000



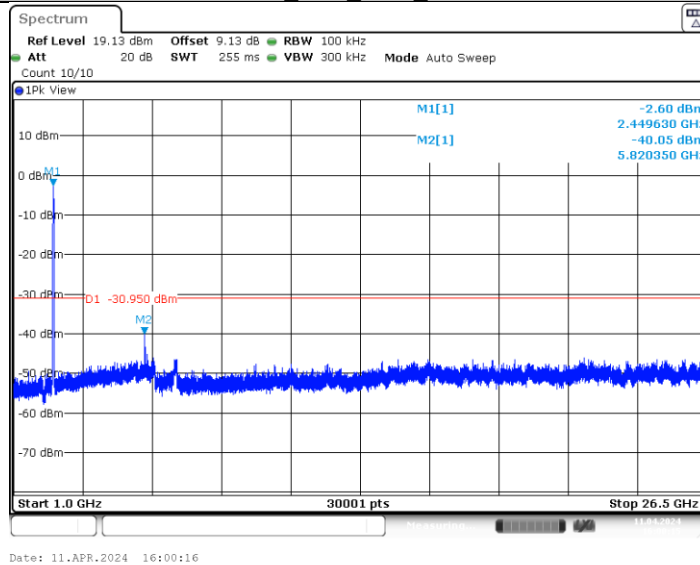
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



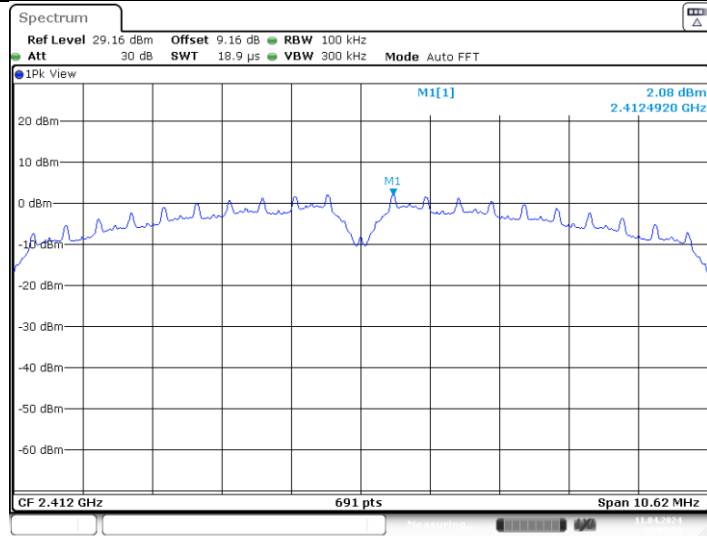
2. Band edge measurements

Reference level measurement

TestMode	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	2412	2412.49	2.08
	2437	2437.49	1.71
	2462	2461.00	1.59
11G	2412	2410.74	-0.54
	2437	2438.27	-0.86
	2462	2454.49	1.00
11N20SISO	2412	2410.75	-0.54
	2437	2438.25	-1.62
	2462	2457.00	-1.32
11N40SISO	2422	2416.97	-2.55
	2437	2449.50	-3.13
	2452	2449.50	-0.95

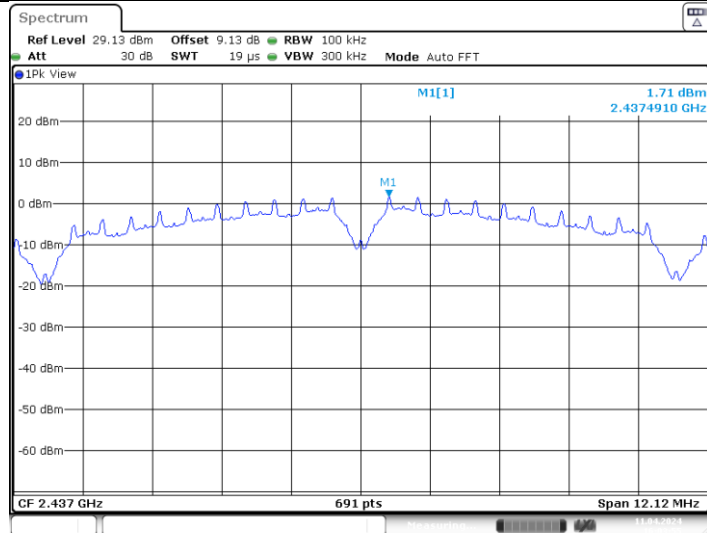
TEST GRAPHS

11B_Ant1_2412



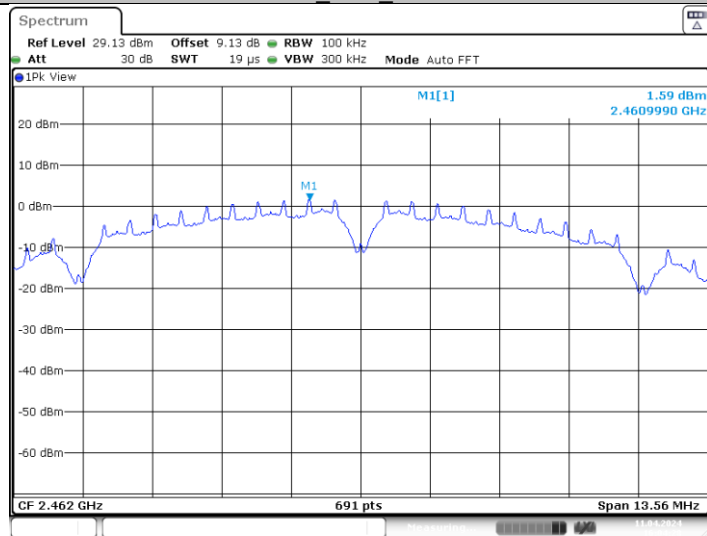
Date: 11.APR.2024 16:03:20

11B_Ant1_2437



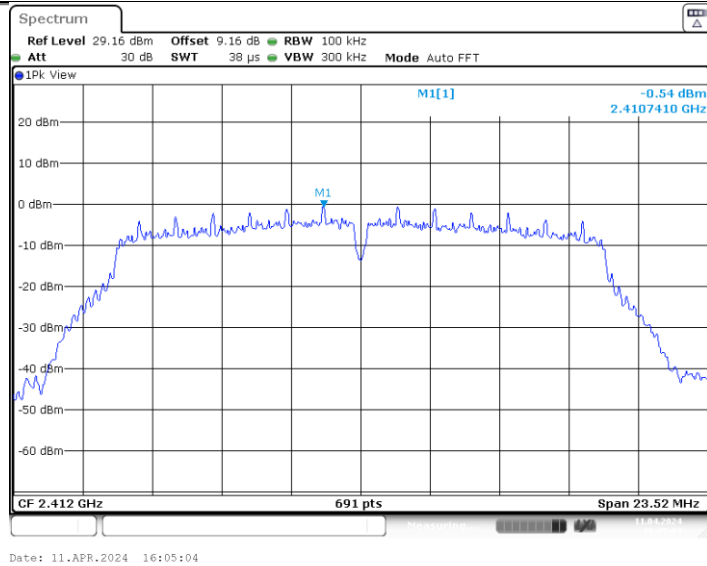
Date: 11.APR.2024 16:03:55

11B_Ant1_2462

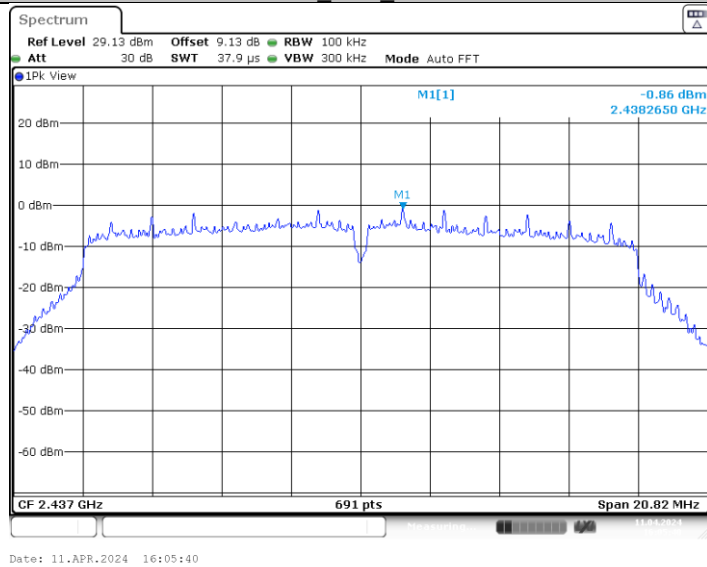


Date: 11.APR.2024 16:04:28

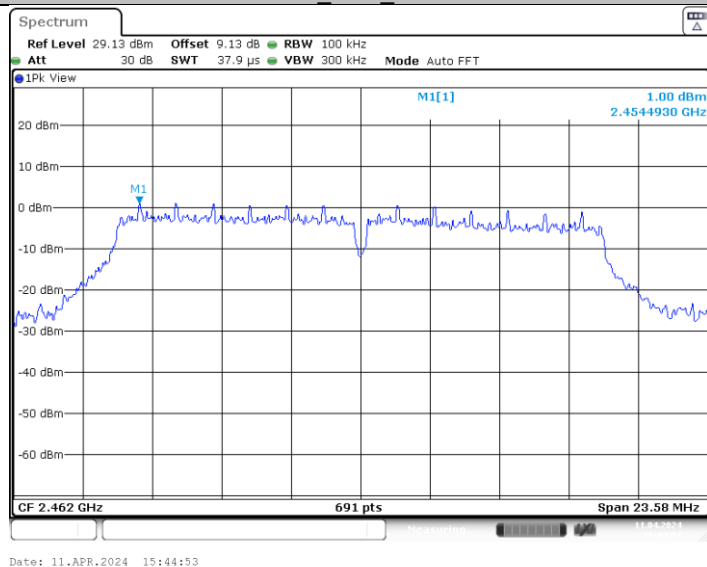
11G_Ant1_2412



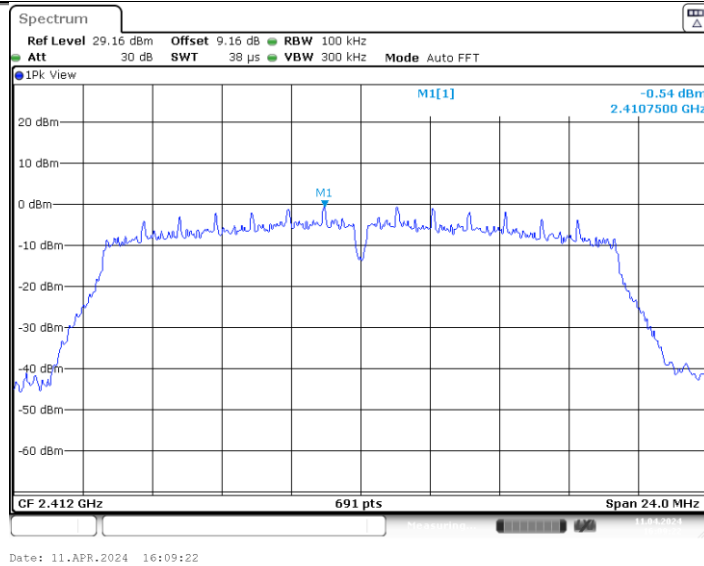
11G_Ant1_2437



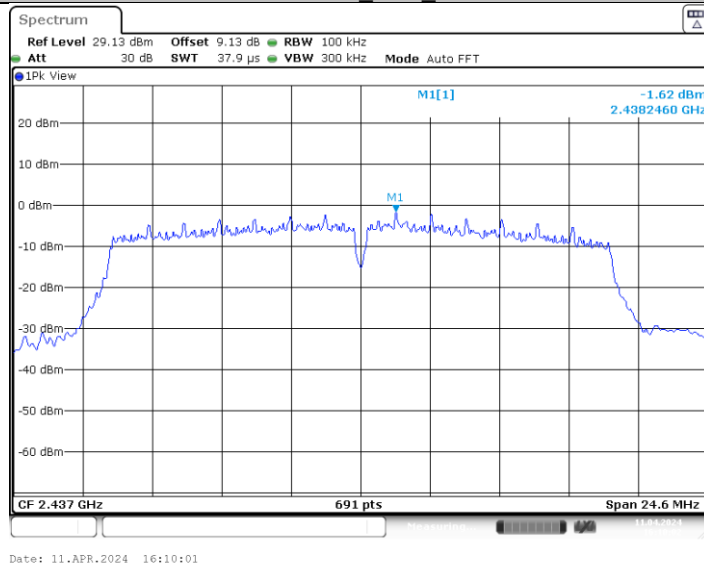
11G_Ant1_2462



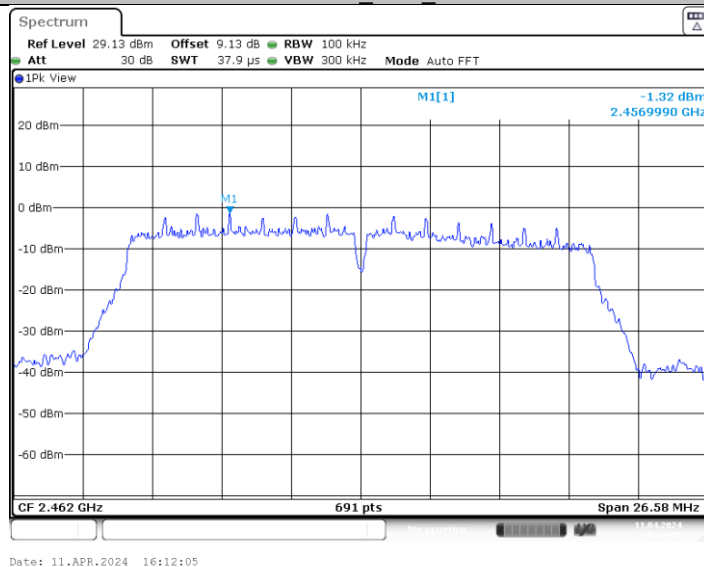
11N20SISO_Ant1_2412



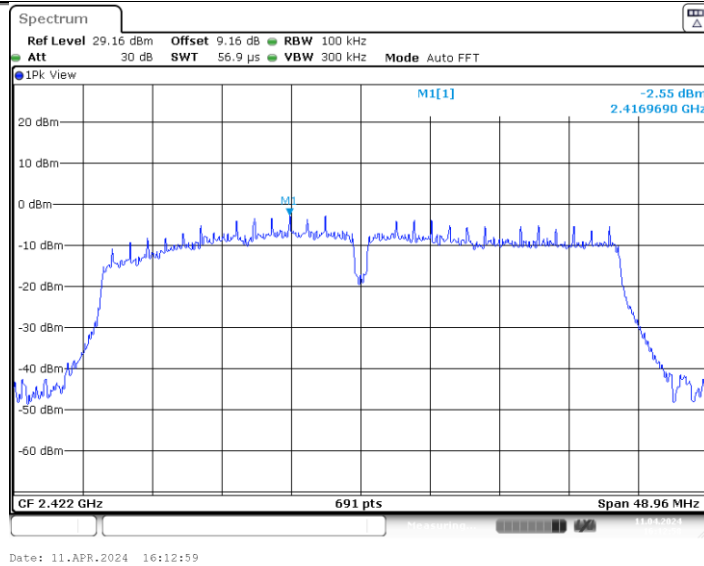
11N20SISO_Ant1_2437



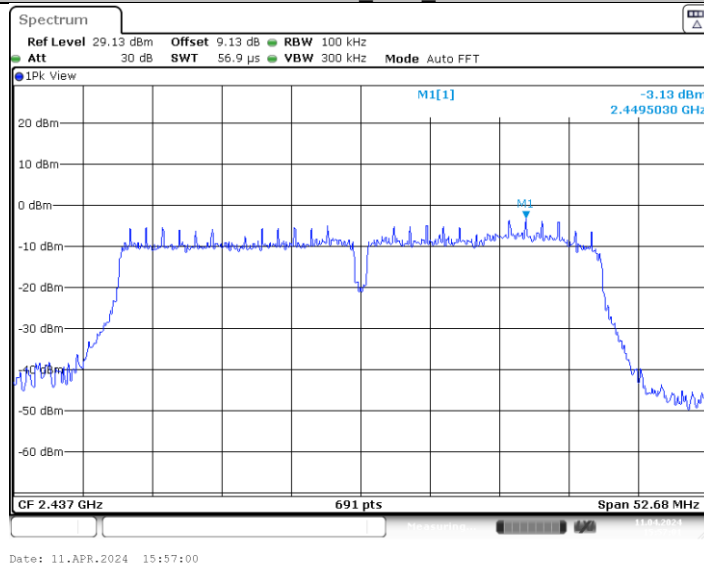
11N20SISO_Ant1_2462



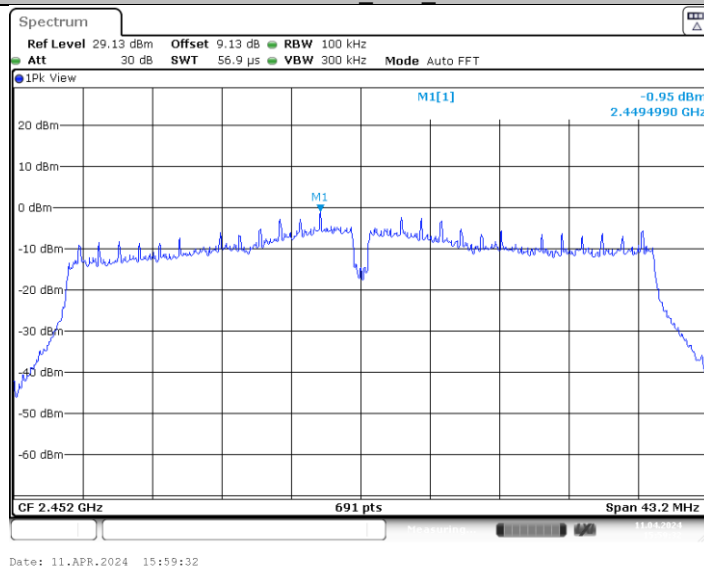
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

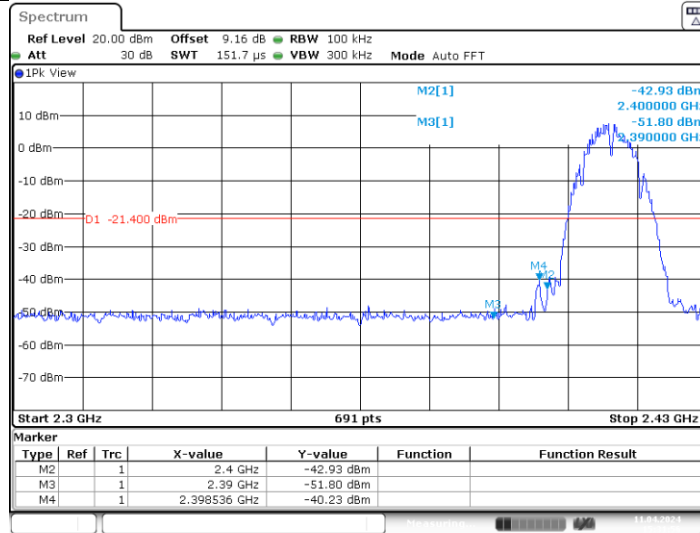


Note:

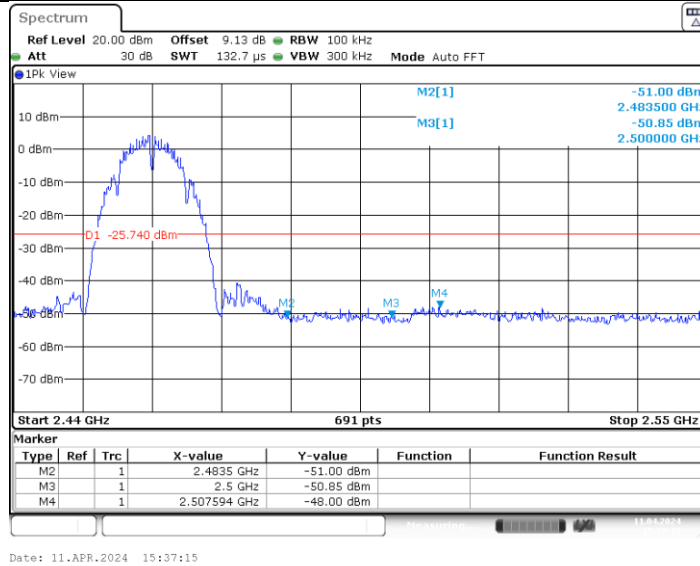
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

TestMode	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Low	2412	8.60	-40.23	≤ -21.4	PASS
	High	2462	4.26	-48	≤ -25.74	PASS
11G	Low	2412	2.17	-28	≤ -27.83	PASS
	High	2462	1.00	-38.03	≤ -29	PASS
11N20SISO	Low	2412	2.04	-28.91	≤ -27.96	PASS
	High	2462	1.72	-36.34	≤ -28.28	PASS
11N40SISO	Low	2422	-3.06	-44.9	≤ -33.06	PASS
	High	2452	-0.95	-46.21	≤ -30.95	PASS

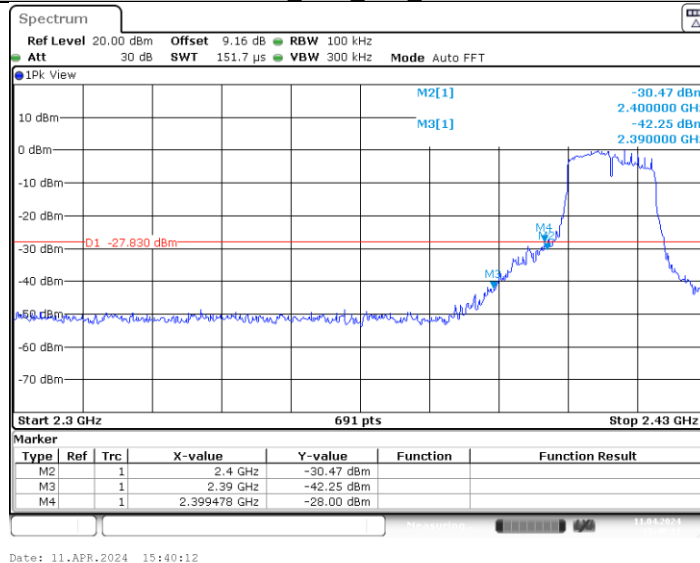
11B_Ant1_Low_2412



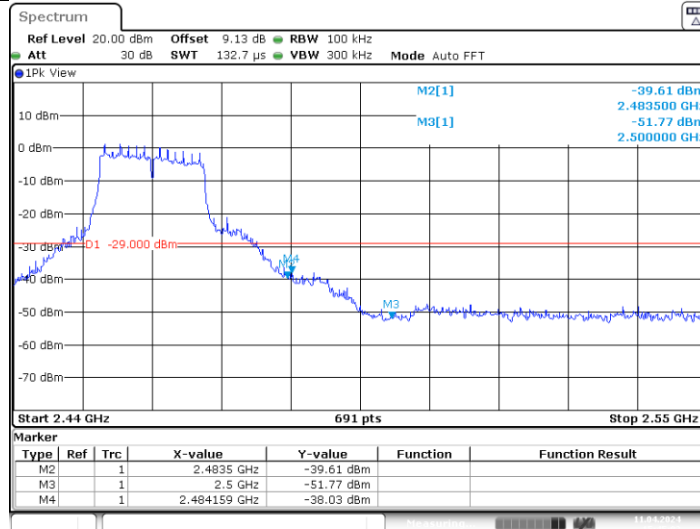
11B_Ant1_High_2462



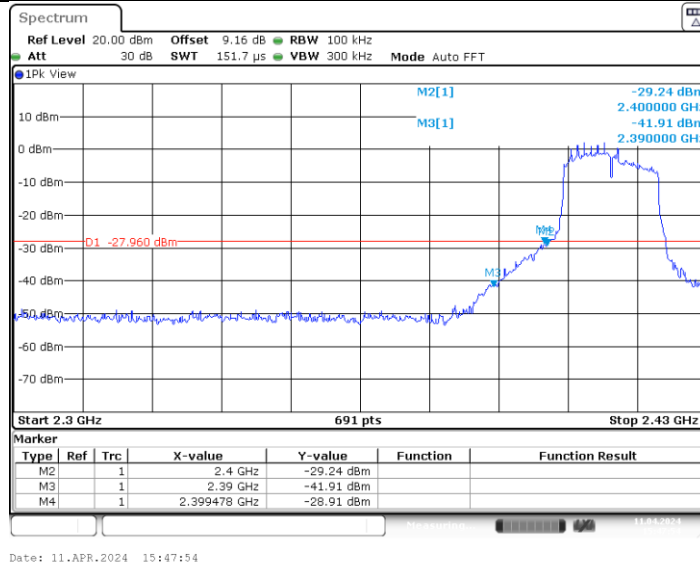
11G_Ant1_Low_2412



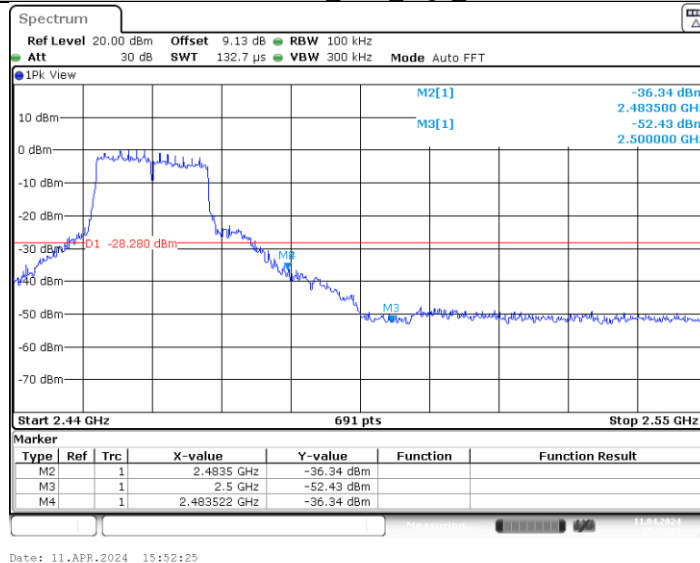
11G Ant1 High 2462



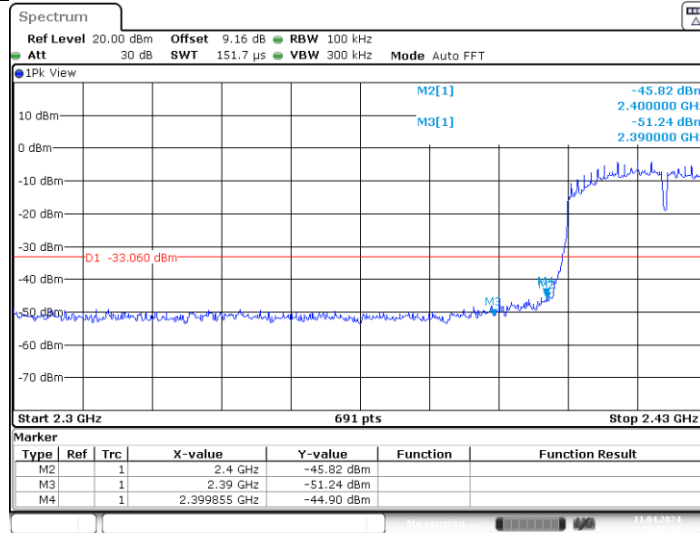
11N20SISO Ant1 Low 2412



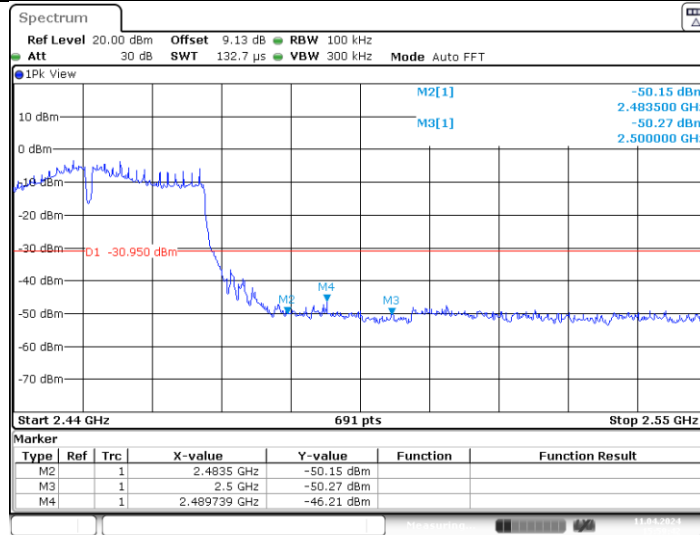
11N20SISO Ant1 High 2462



11N40SISO_Ant1_Low_2422



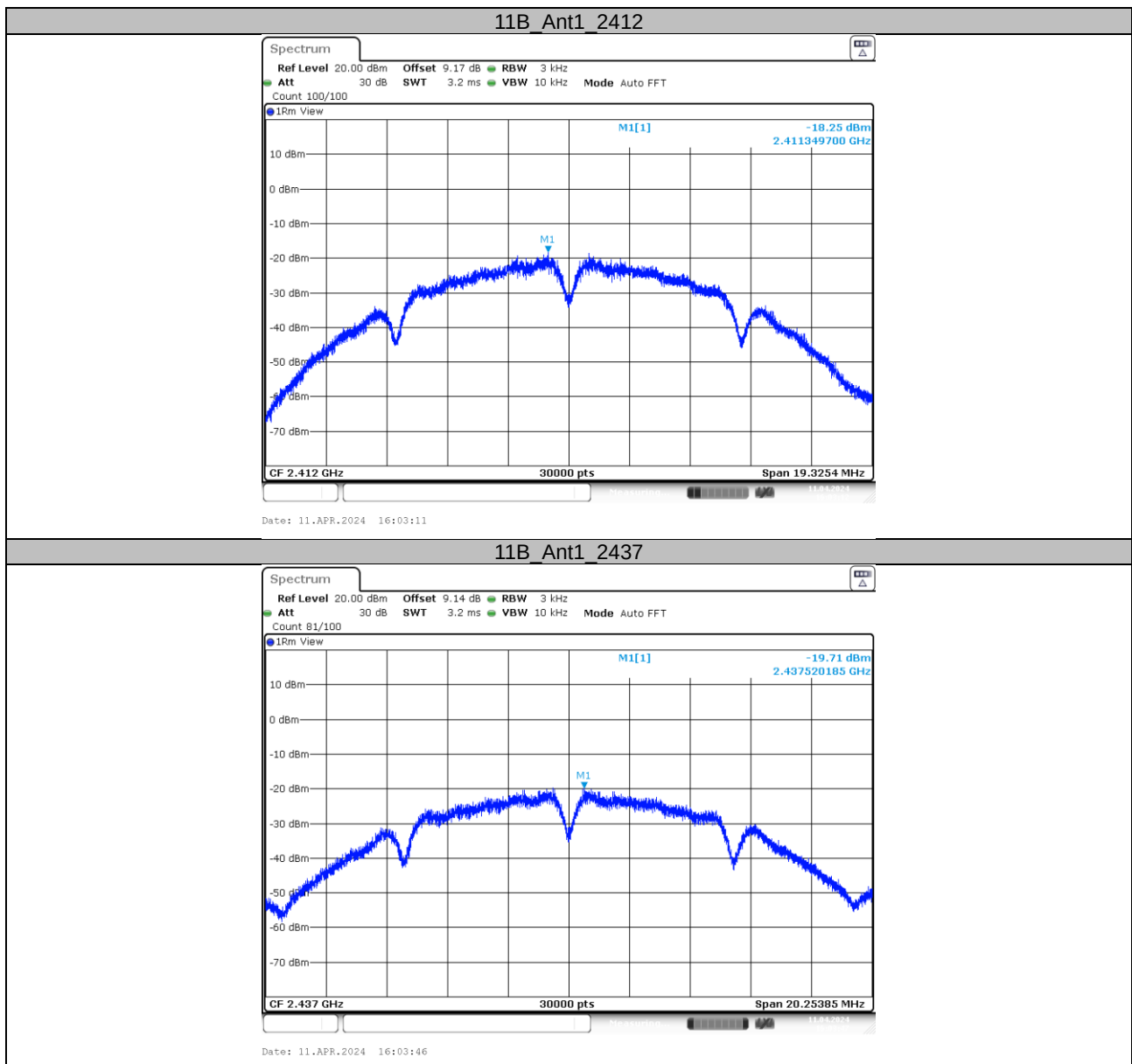
11N40SISO_Ant1_High_2452



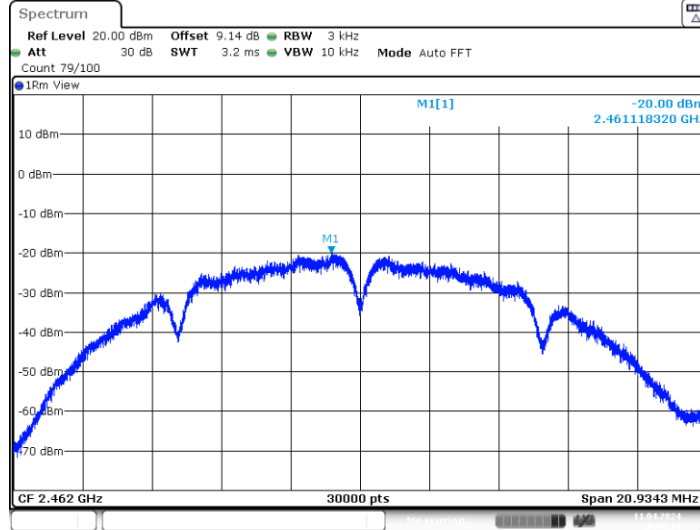
APPENDIXH - POWER SPECTRAL DENSITY

TestMode	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-18.25	≤8.00	PASS
	2437	-19.71	≤8.00	PASS
	2462	-20.00	≤8.00	PASS
11G	2412	-21.57	≤8.00	PASS
	2437	-21.89	≤8.00	PASS
	2462	-21.96	≤8.00	PASS
11N20SISO	2412	-21.66	≤8.00	PASS
	2437	-21.61	≤8.00	PASS
	2462	-22.60	≤8.00	PASS
11N40SISO	2422	-23.55	≤8.00	PASS
	2437	-23.40	≤8.00	PASS
	2452	-22.58	≤8.00	PASS

Test Graphs

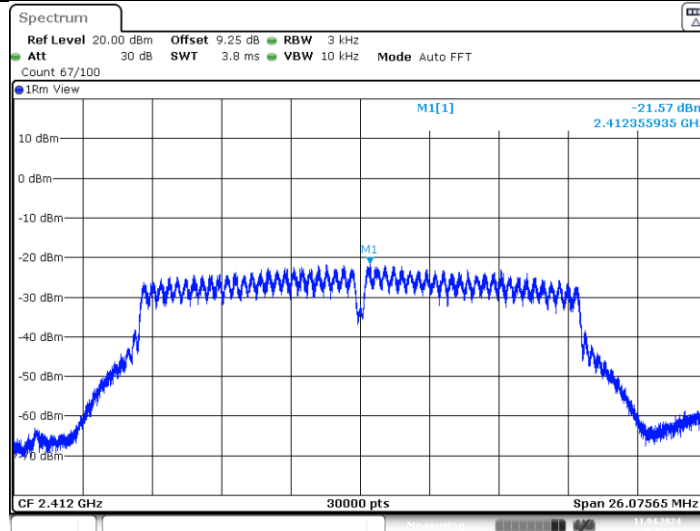


11B_Ant1_2462



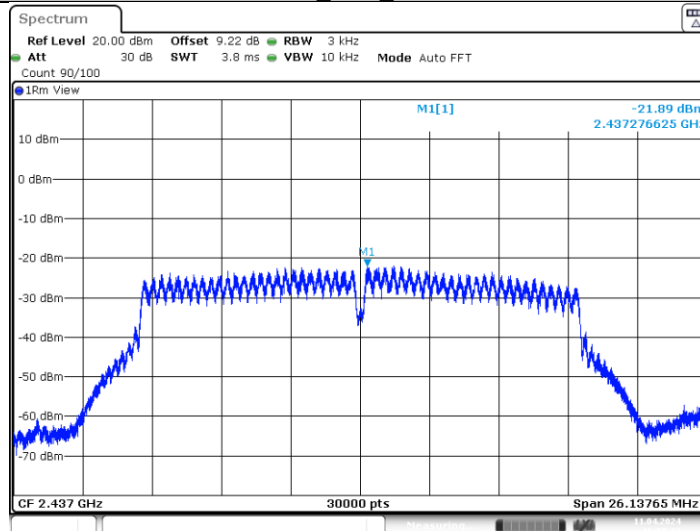
Date: 11.APR.2024 16:04:19

11G_Ant1_2412



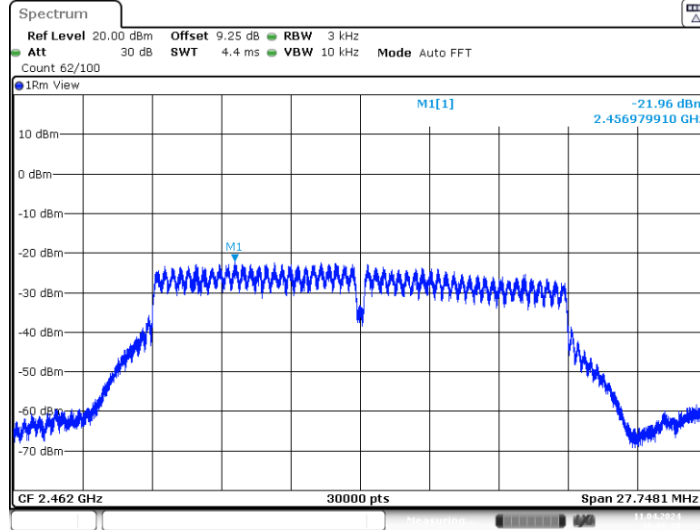
Date: 11.APR.2024 16:04:56

11G_Ant1_2437



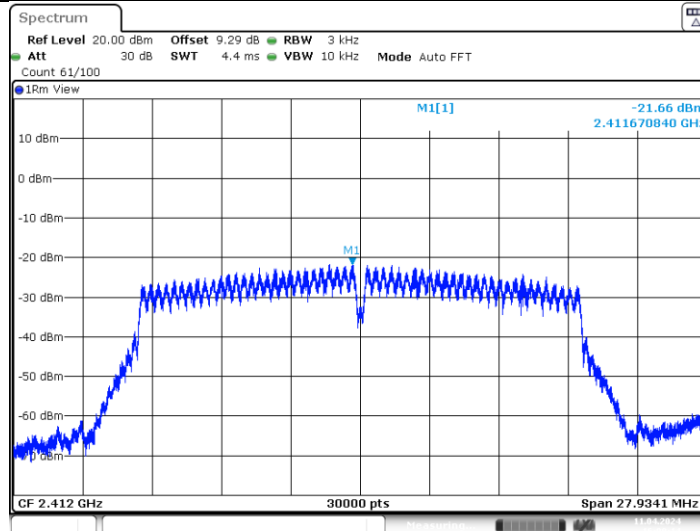
Date: 11.APR.2024 16:05:31

11G_Ant1_2462



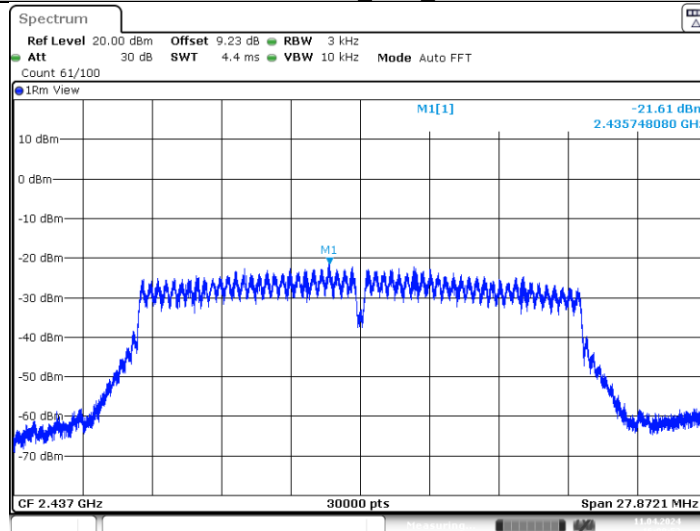
Date: 11.APR.2024 16:06:28

11N20SISO_Ant1_2412



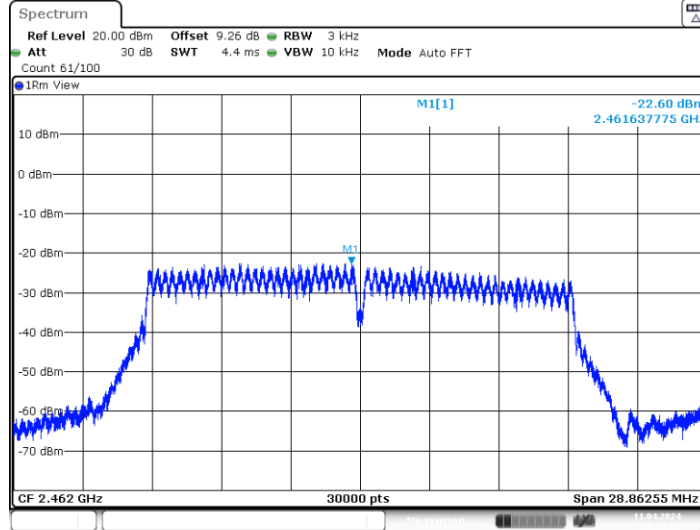
Date: 11.APR.2024 16:09:14

11N20SISO_Ant1_2437



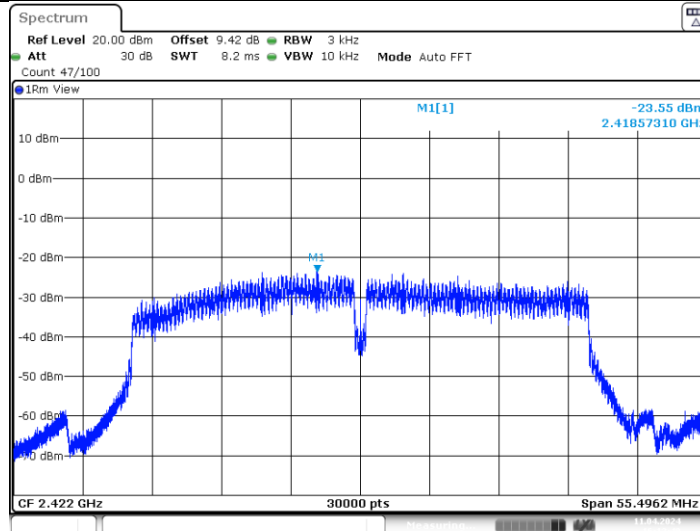
Date: 11.APR.2024 16:09:53

11N20SISO_Ant1_2462



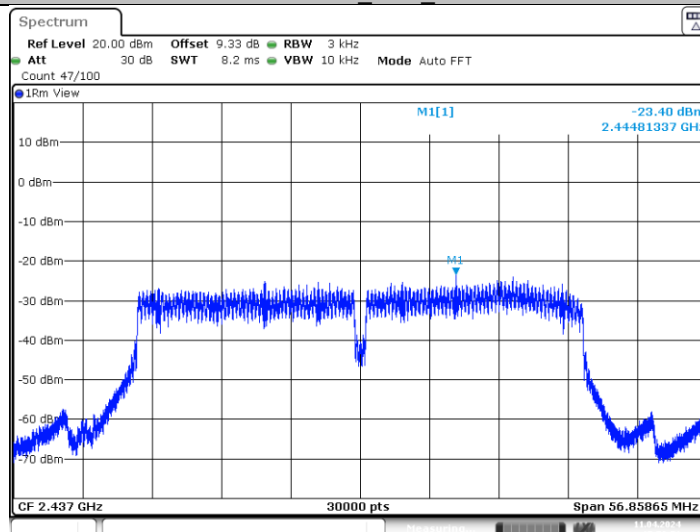
Date: 11.APR.2024 16:10:59

11N40SISO_Ant1_2422



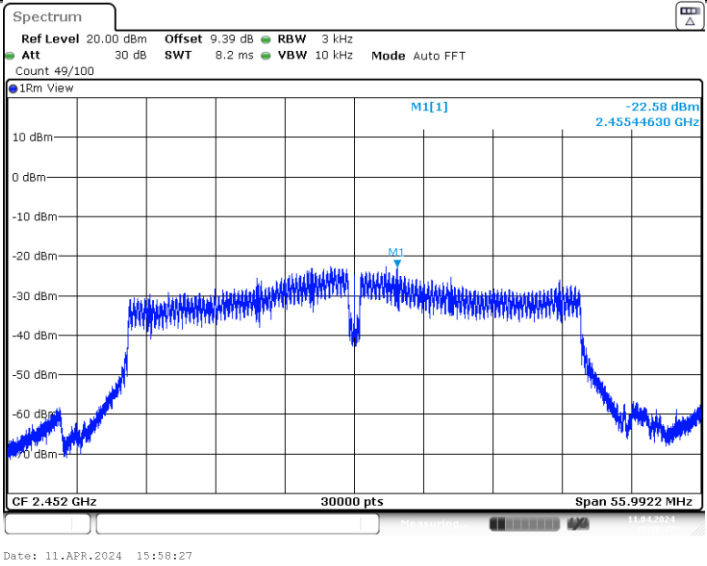
Date: 11.APR.2024 16:12:50

11N40SISO_Ant1_2437



Date: 11.APR.2024 15:56:52

11N40SISO_Ant1_2452



End of Test Report