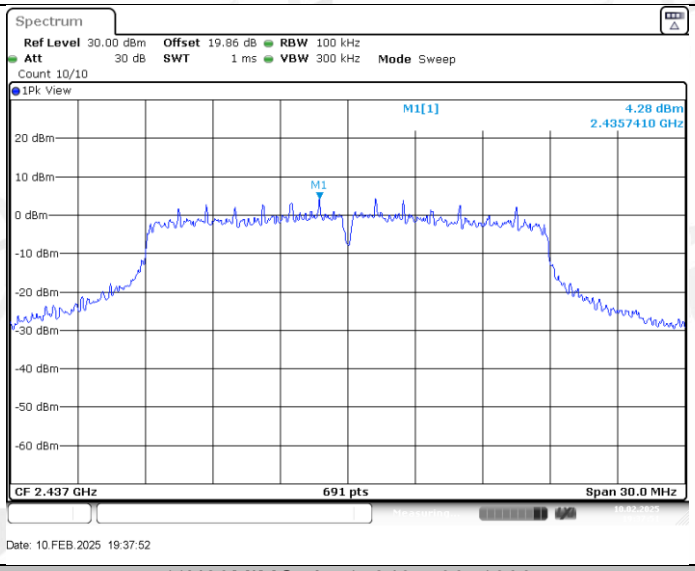
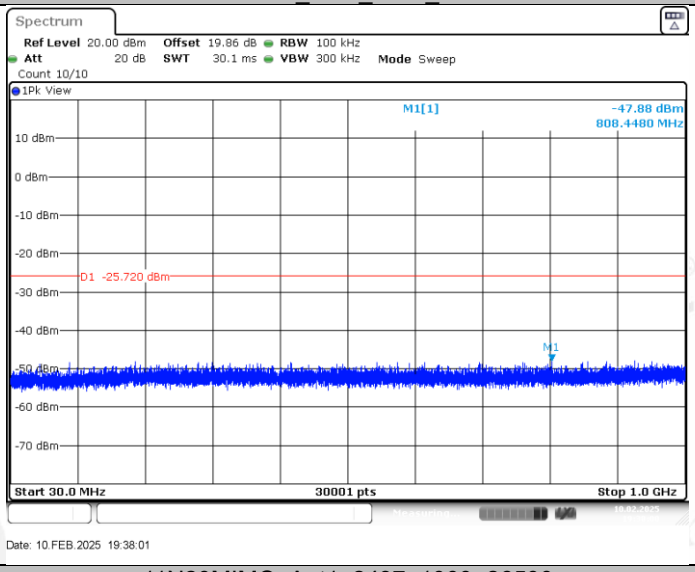
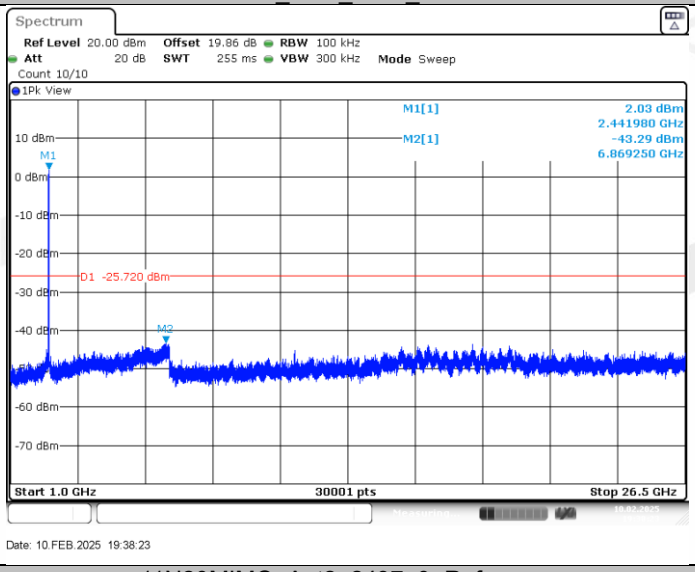


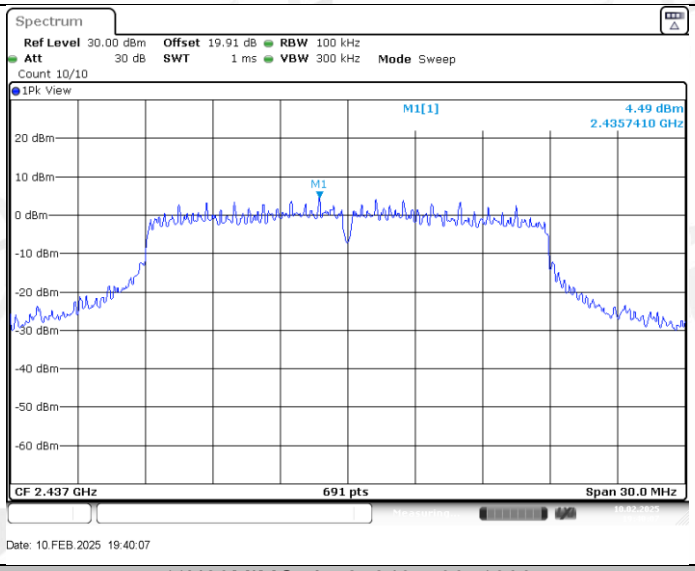
11N20MIMO_Ant1_2437_30~1000



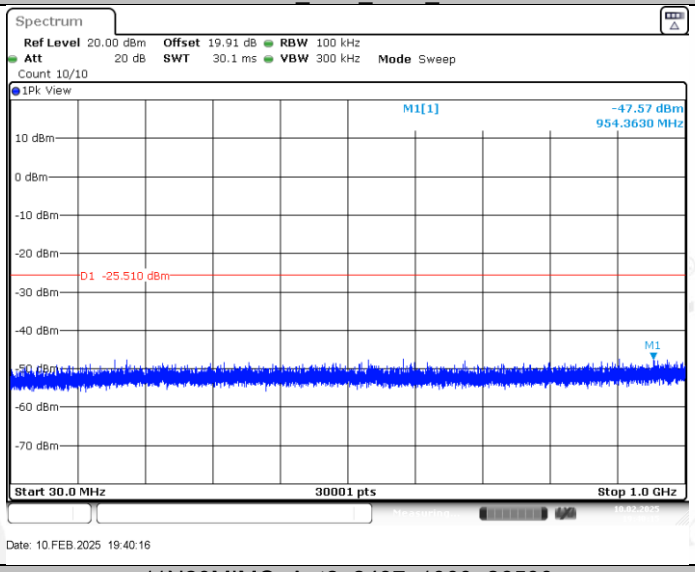
11N20MIMO_Ant1_2437_1000~26500



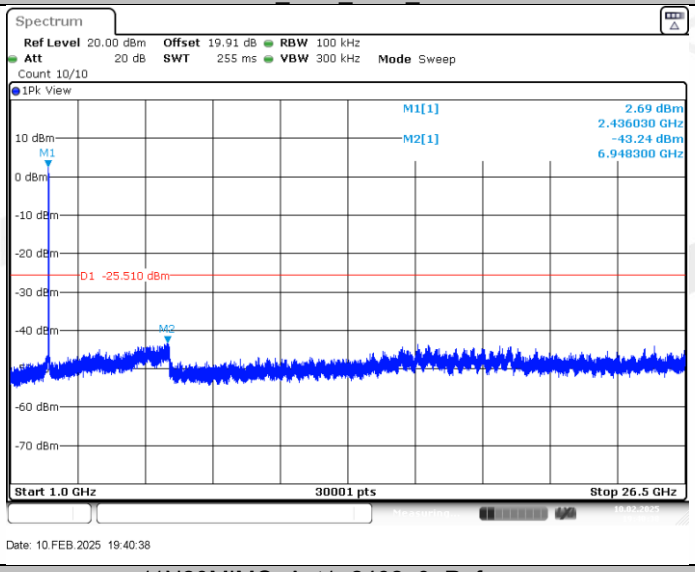
11N20MIMO_Ant2_2437_0~Reference



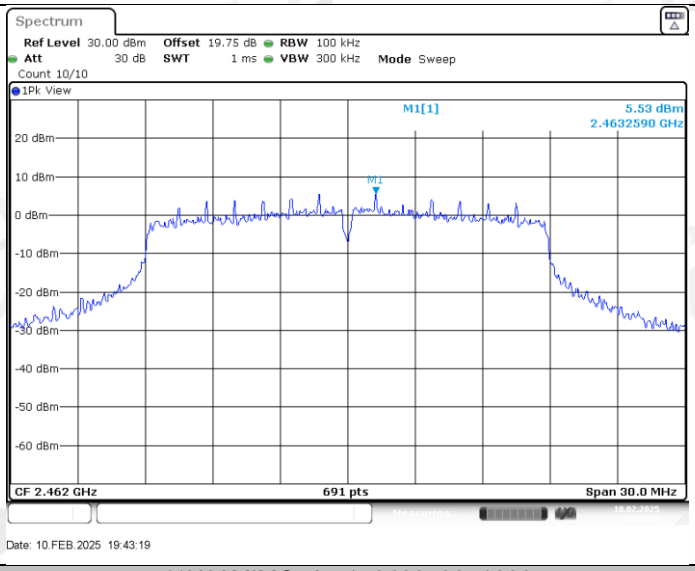
11N20MIMO_Ant2_2437_30~1000



11N20MIMO_Ant2_2437_1000~26500



11N20MIMO_Ant1_2462_0~Reference



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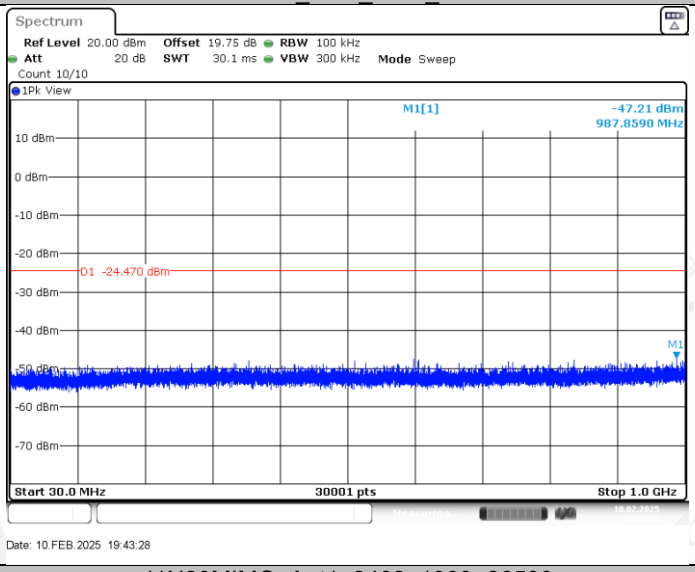

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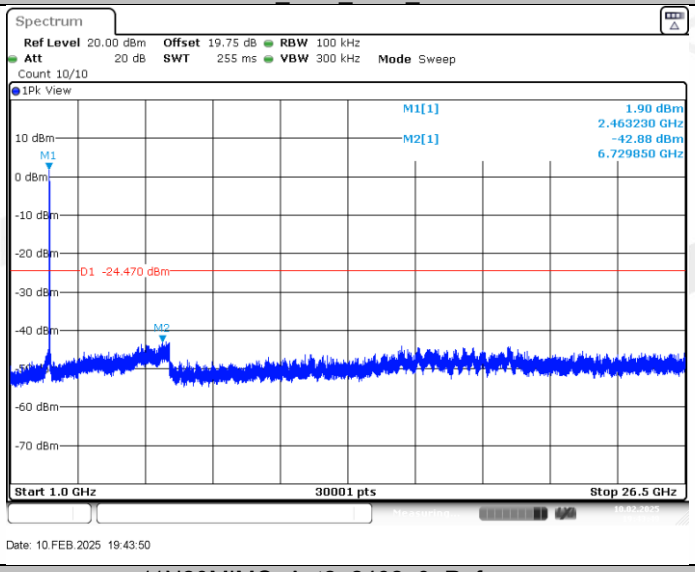
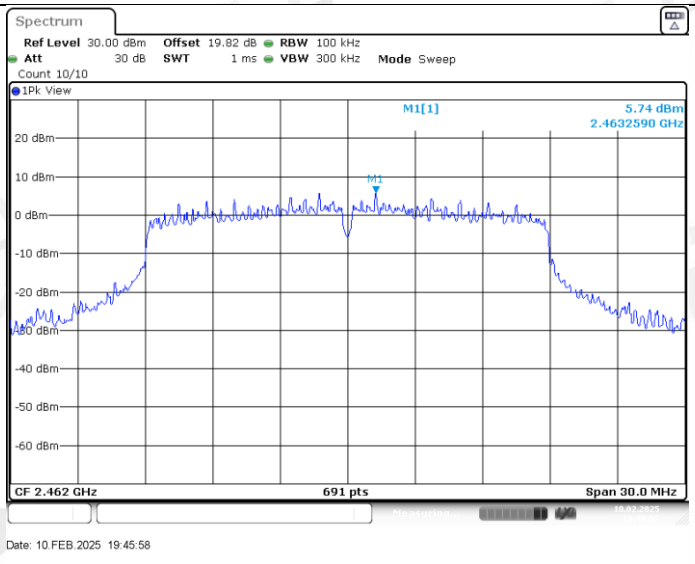
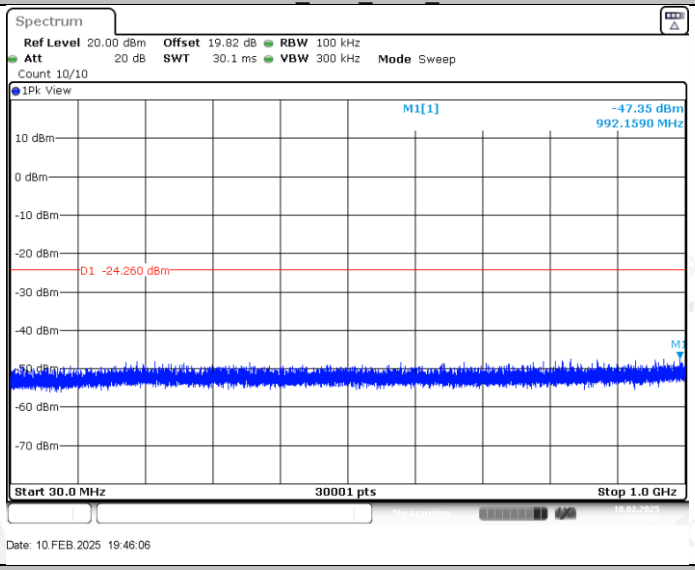


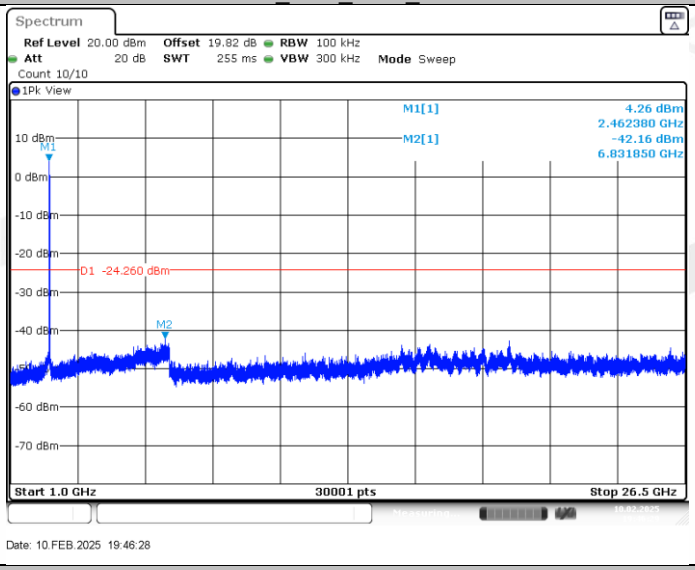
11N20MIMO_Ant2_2462_0~Reference



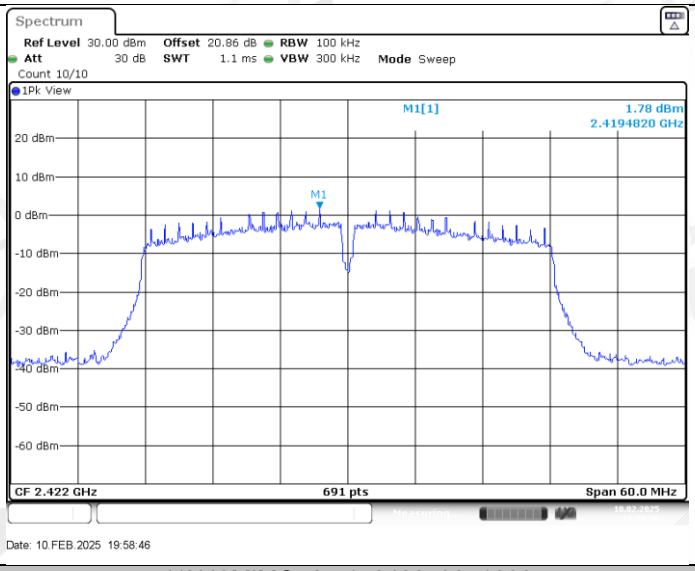
11N20MIMO_Ant2_2462_30~1000



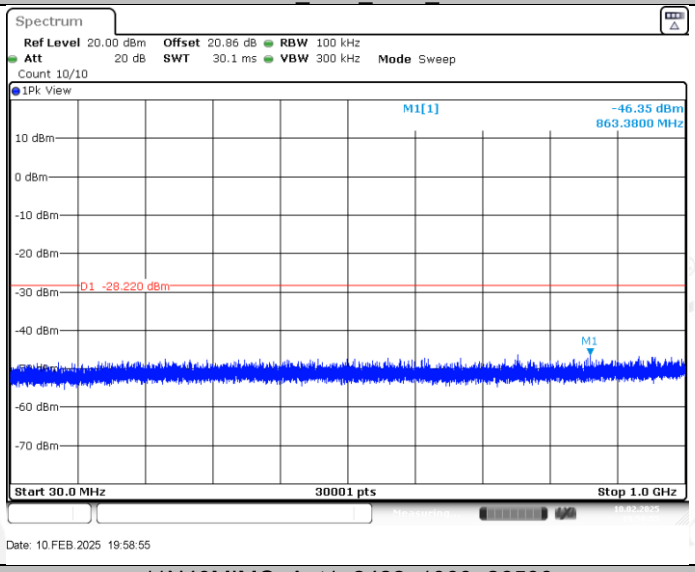
11N20MIMO_Ant2_2462_1000~26500



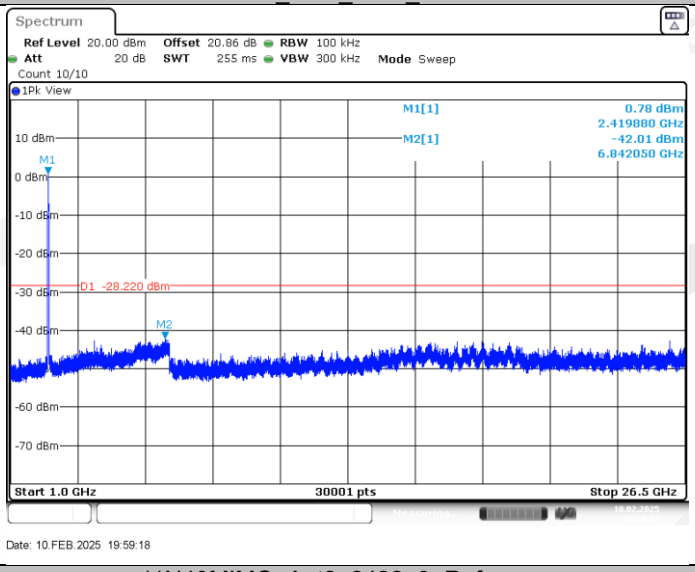
11N40MIMO_Ant1_2422_0~Reference



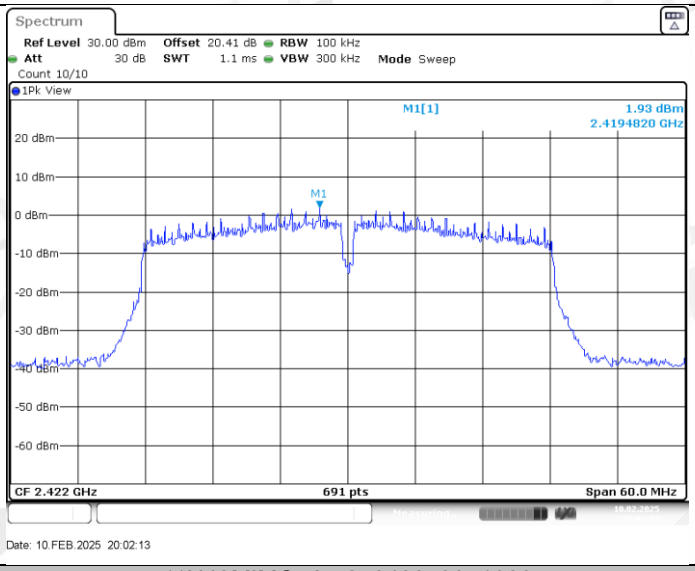
11N40MIMO_Ant1_2422_30~1000



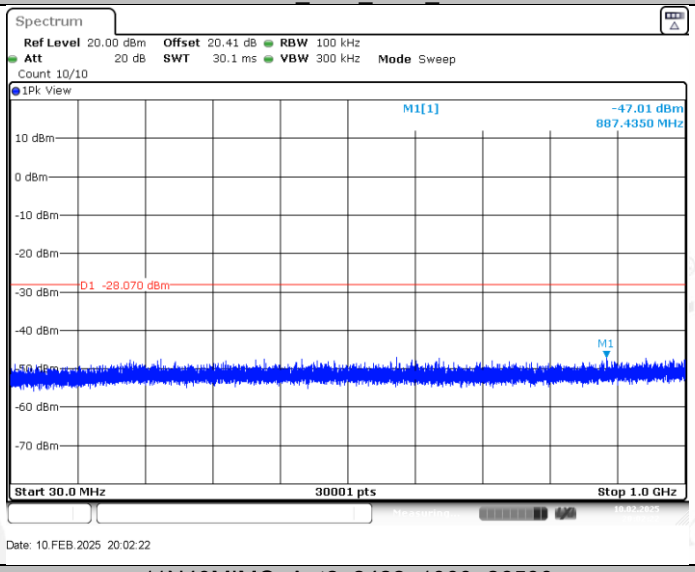
11N40MIMO_Ant1_2422_1000~26500



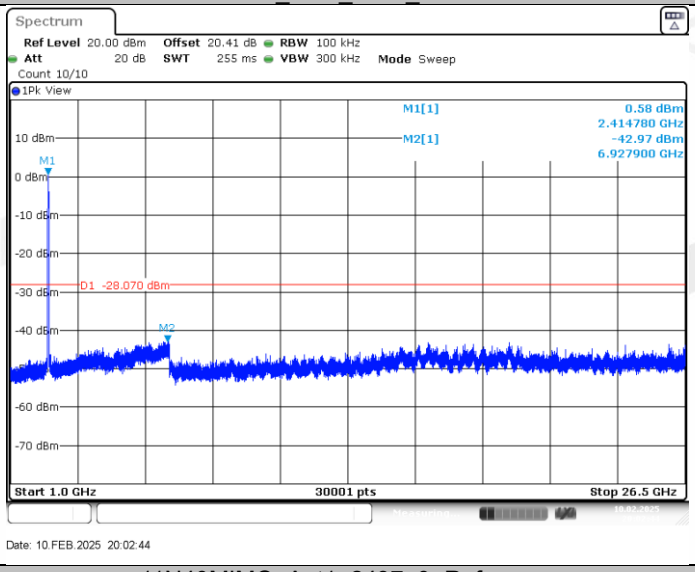
11N40MIMO_Ant2_2422_0~Reference



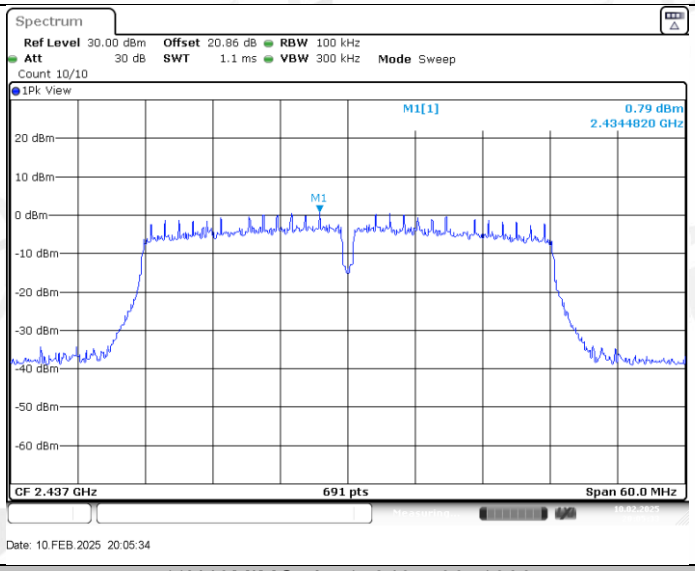
11N40MIMO_Ant2_2422_30~1000



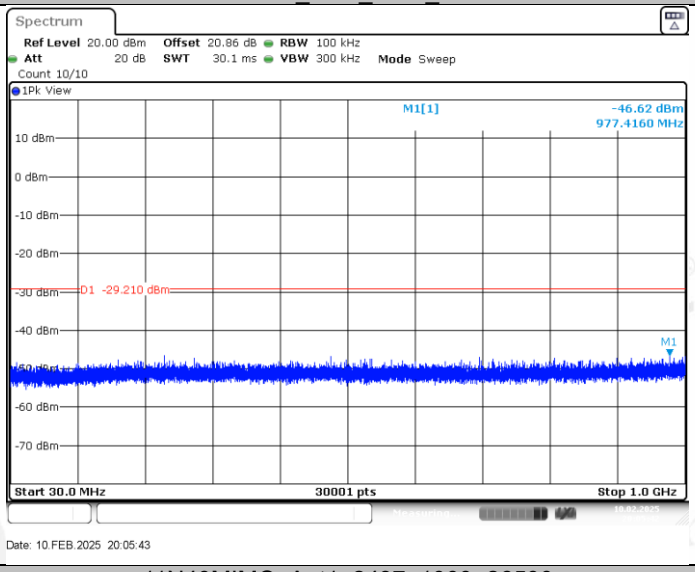
11N40MIMO_Ant2_2422_1000~26500



11N40MIMO_Ant1_2437_0~Reference



11N40MIMO_Ant1_2437_30~1000



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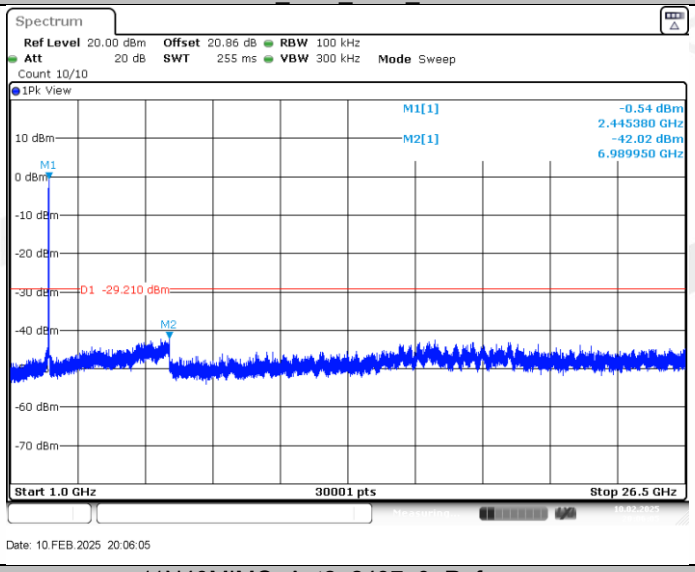

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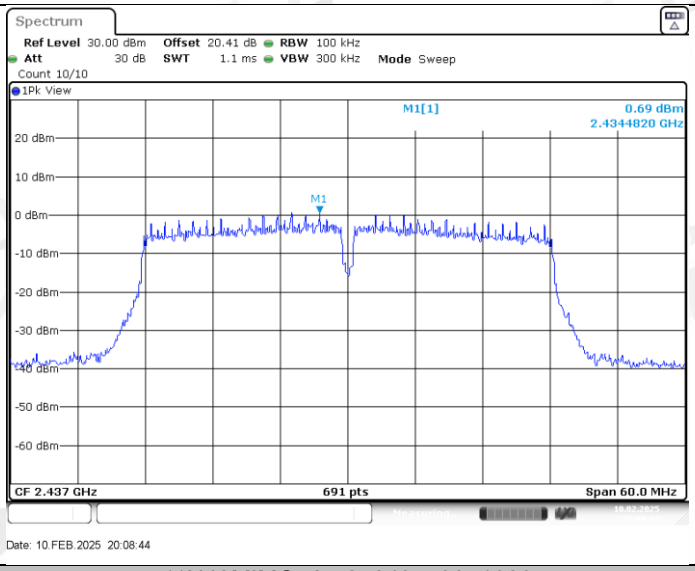
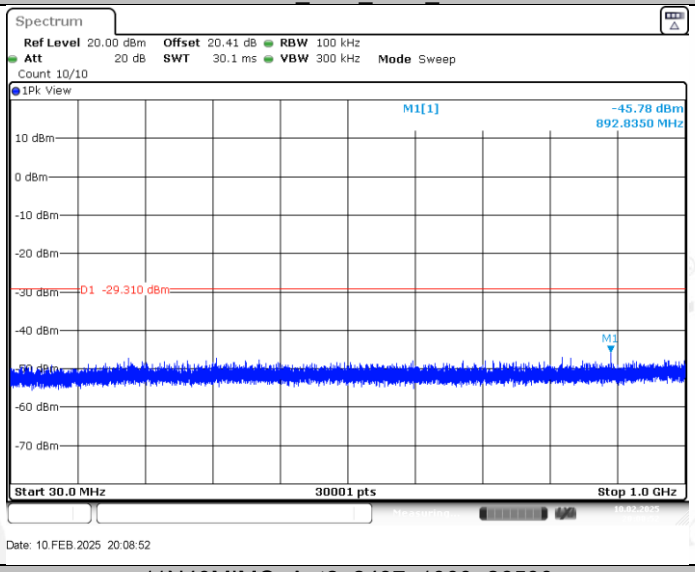
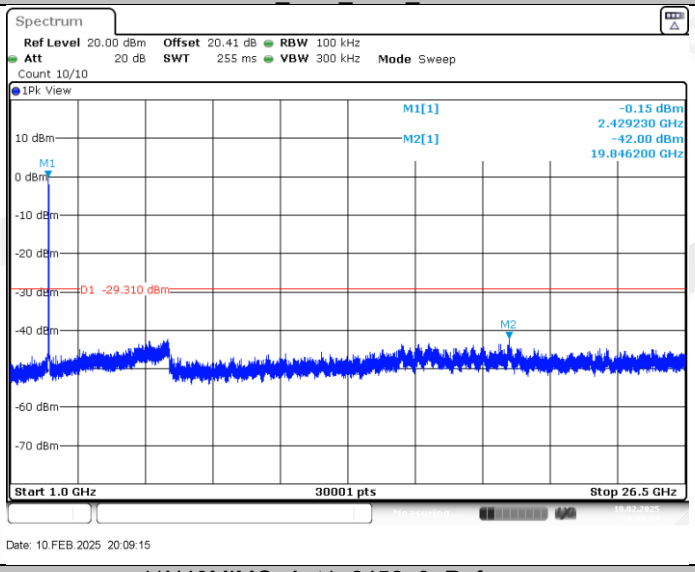


11N40MIMO_Ant2_2437_30~1000



11N40MIMO_Ant2_2437_1000~26500



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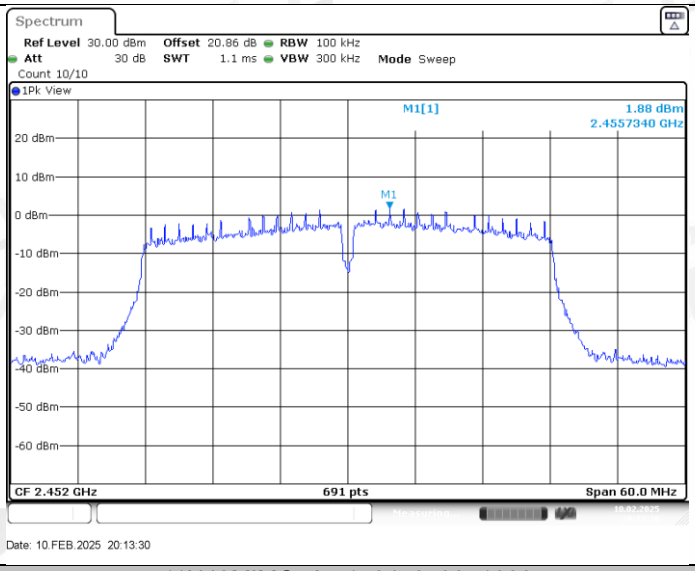
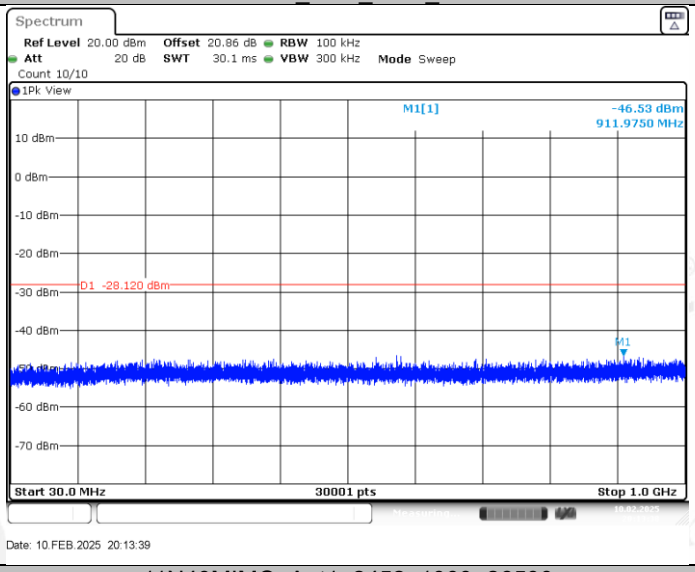
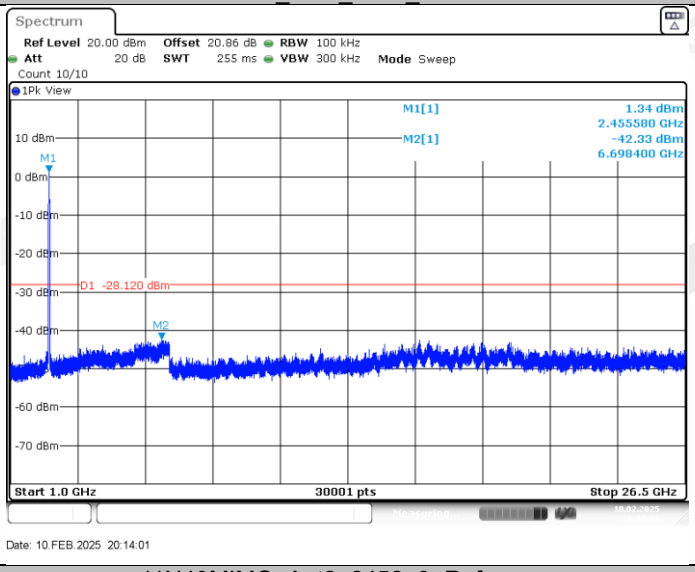


11N40MIMO_Ant1_2452_30~1000



11N40MIMO_Ant1_2452_1000~26500



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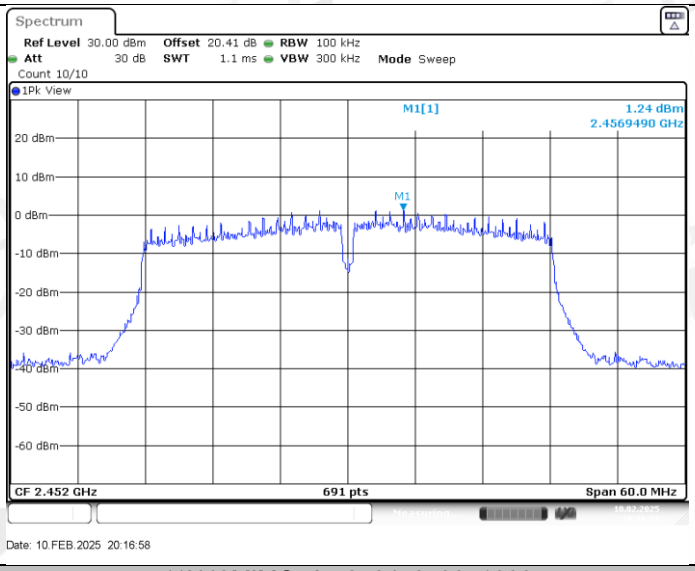
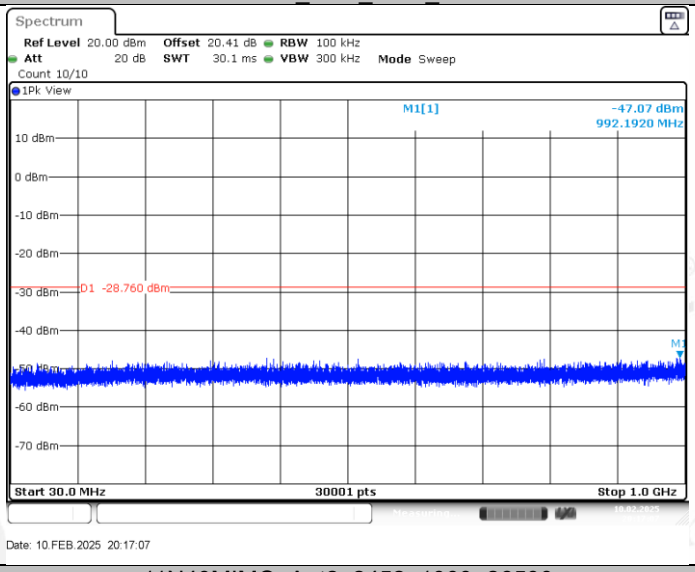


11N40MIMO_Ant2_2452_30~1000



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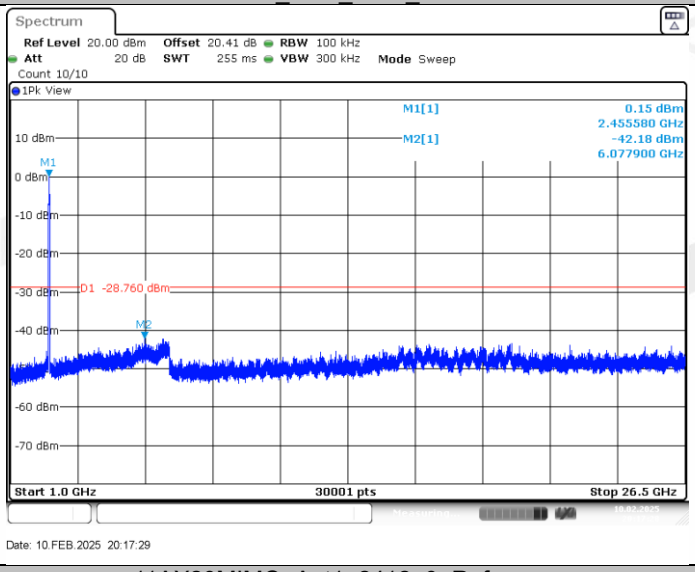
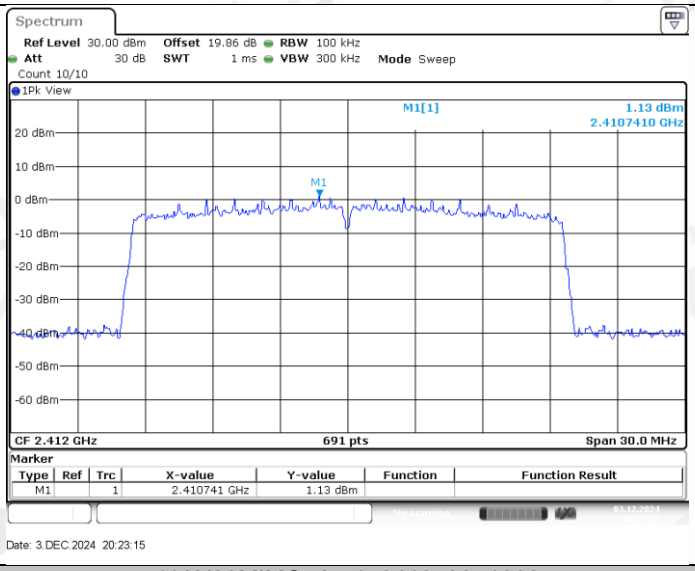
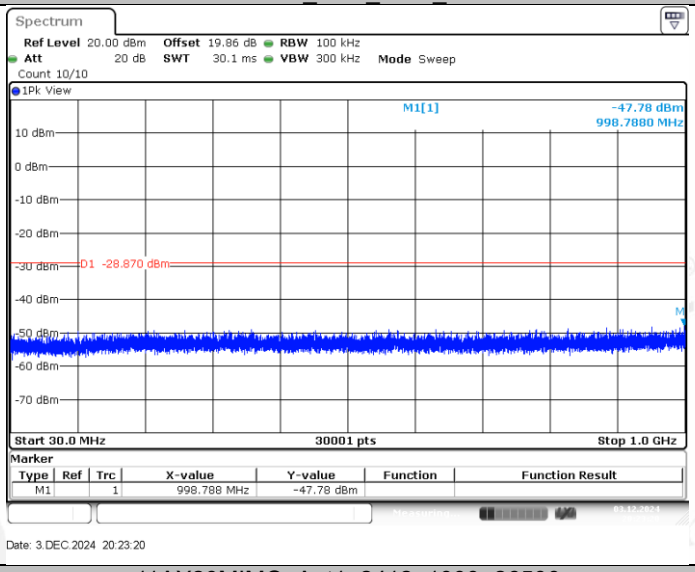


11AX20MIMO_Ant1_2412_0~Reference



11AX20MIMO_Ant1_2412_30~1000



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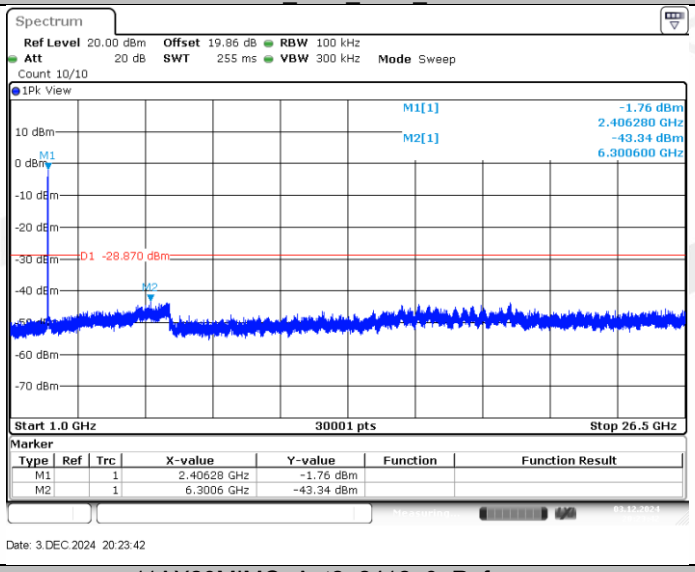

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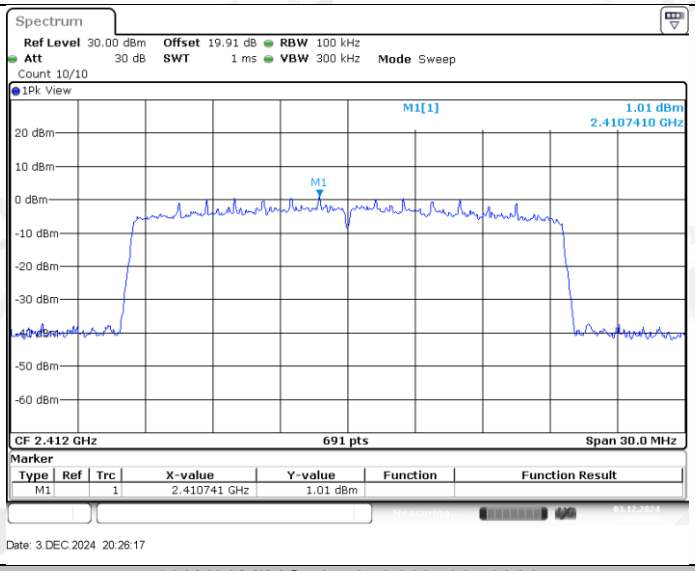
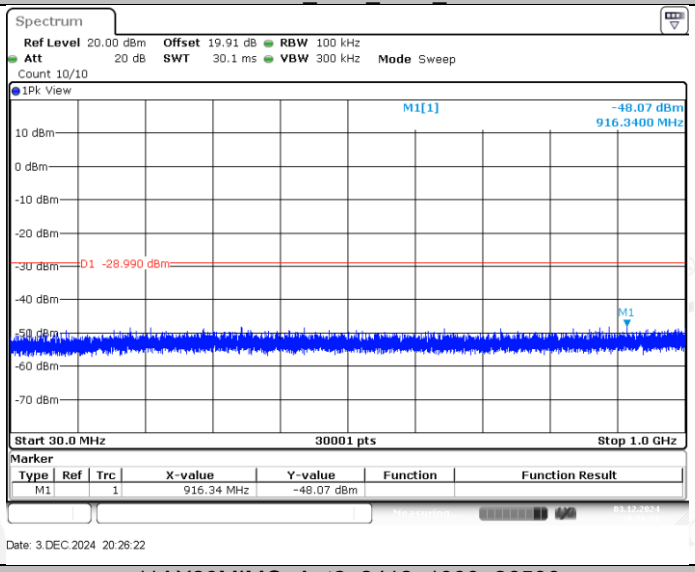
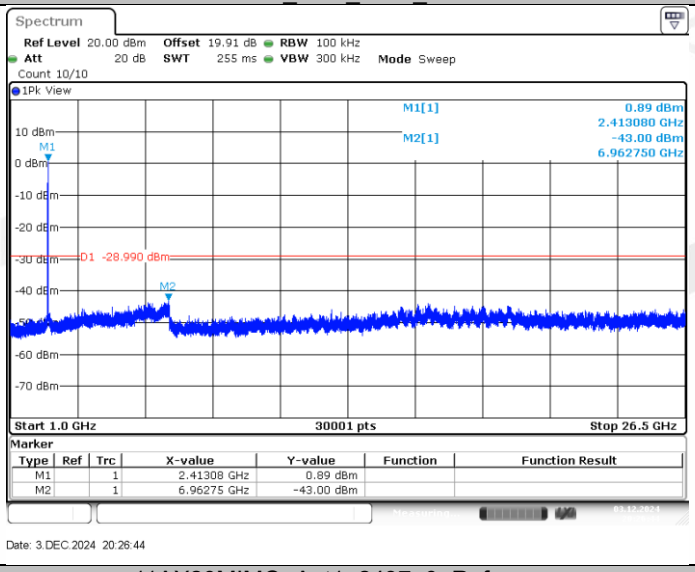


11AX20MIMO_Ant2_2412_30~1000



11AX20MIMO_Ant2_2412_1000~26500



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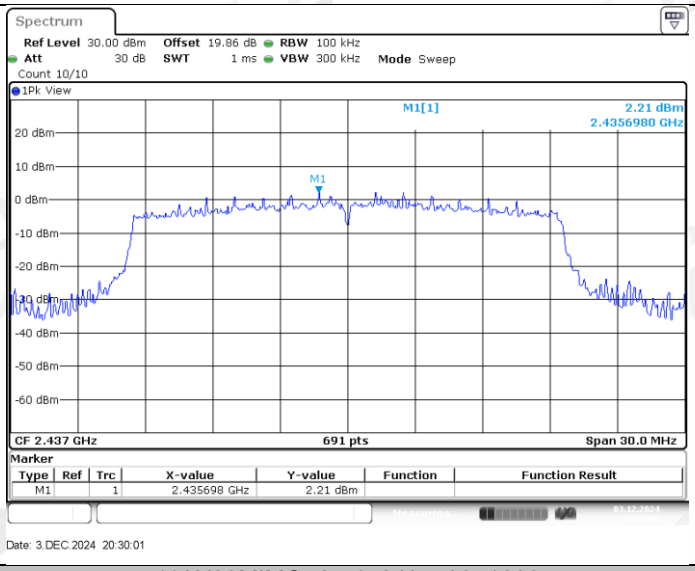
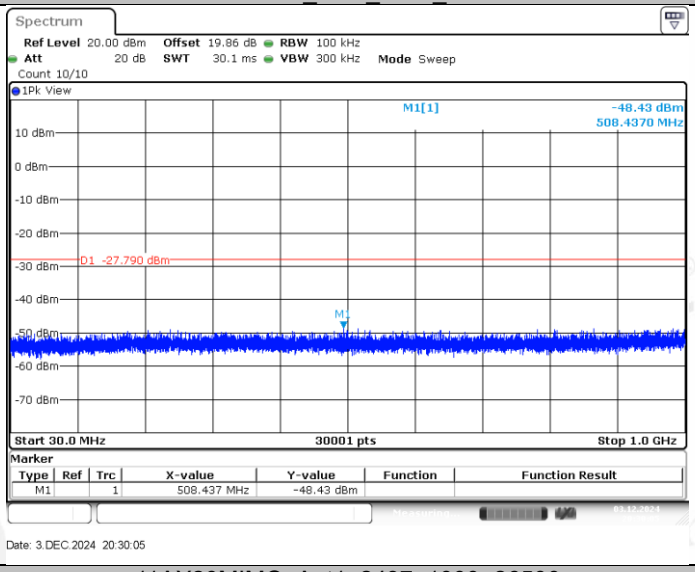
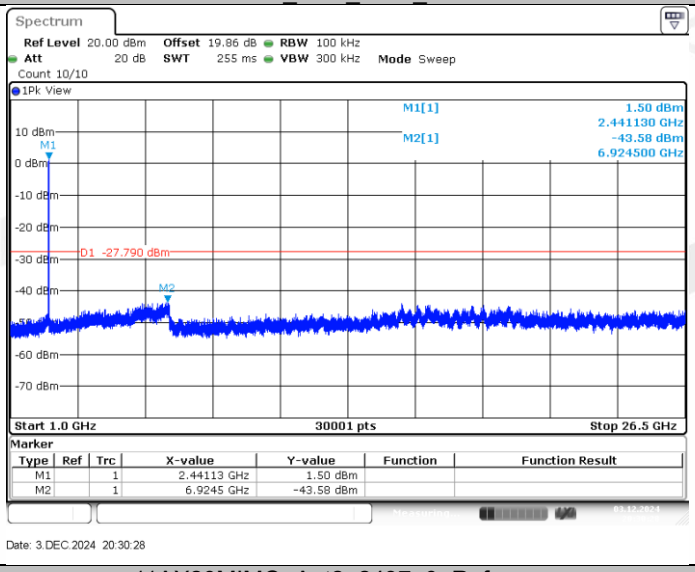


11AX20MIMO_Ant1_2437_30~1000



11AX20MIMO_Ant1_2437_1000~26500



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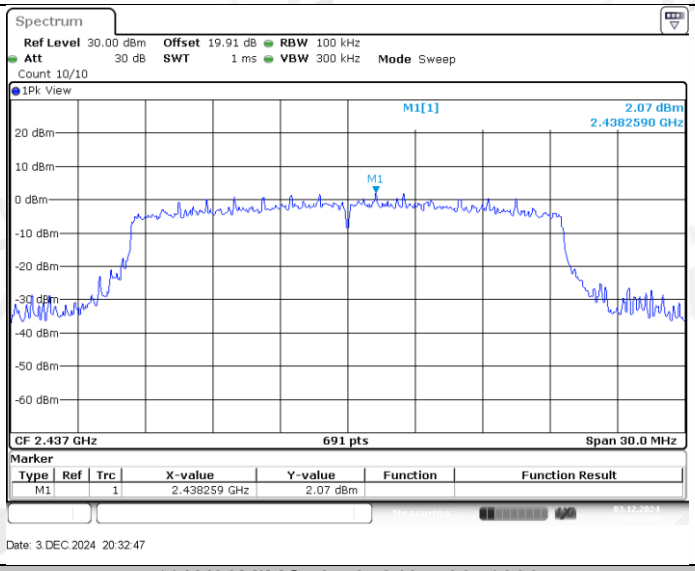
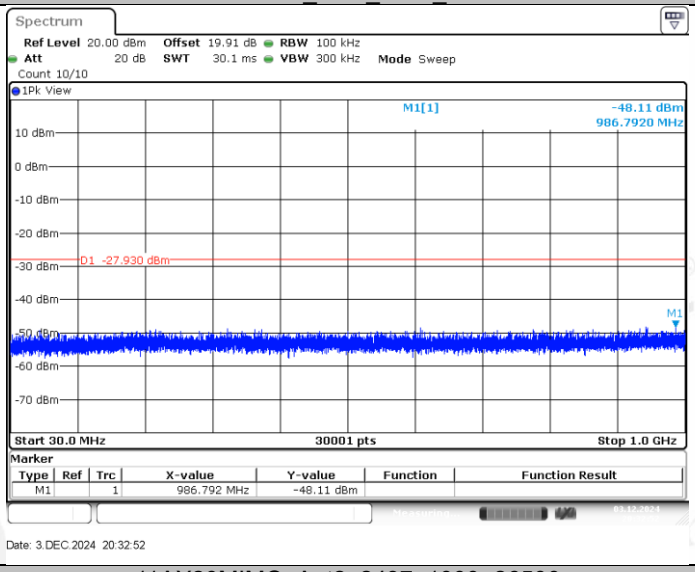
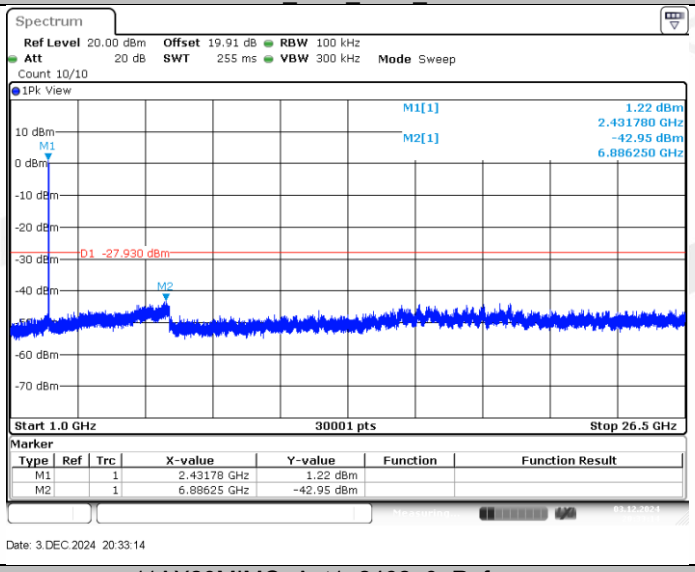


11AX20MIMO_Ant2_2437_30~1000



11AX20MIMO_Ant2_2437_1000~26500



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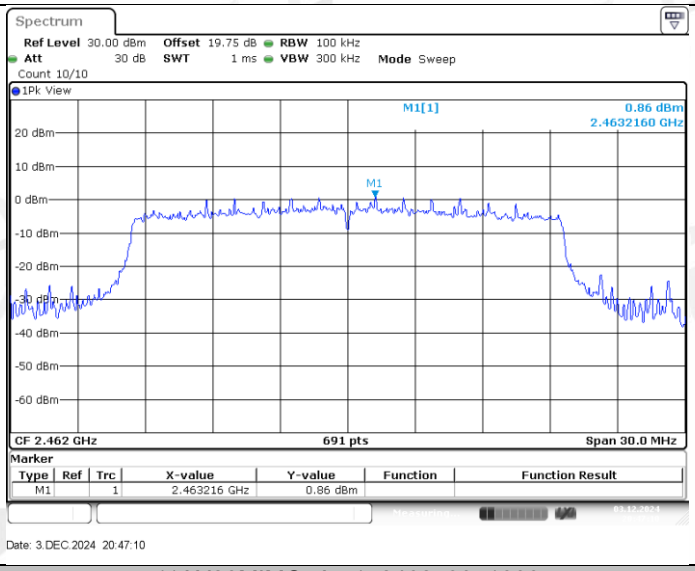
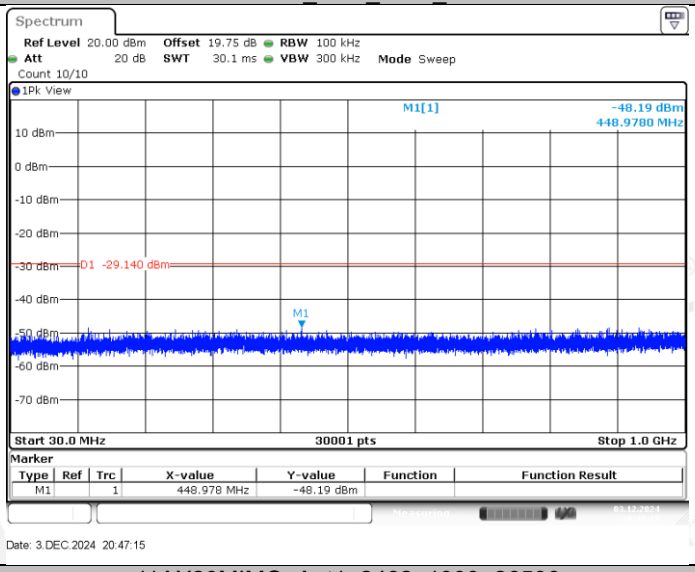
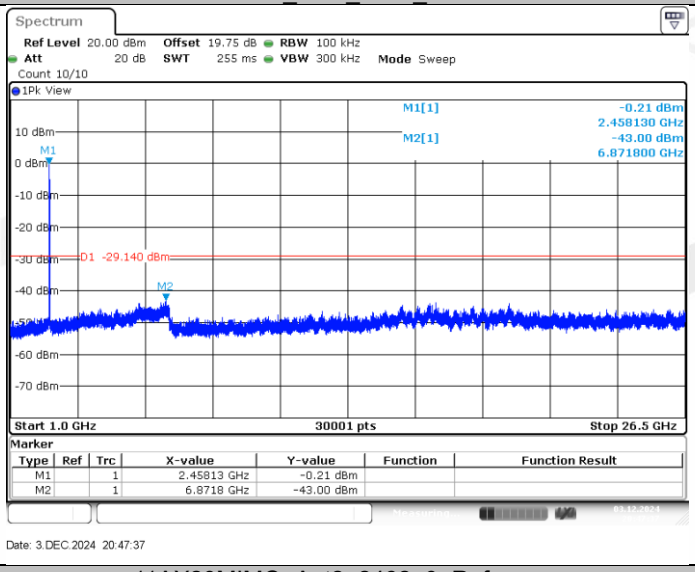


11AX20MIMO_Ant1_2462_30~1000



11AX20MIMO_Ant1_2462_1000~26500



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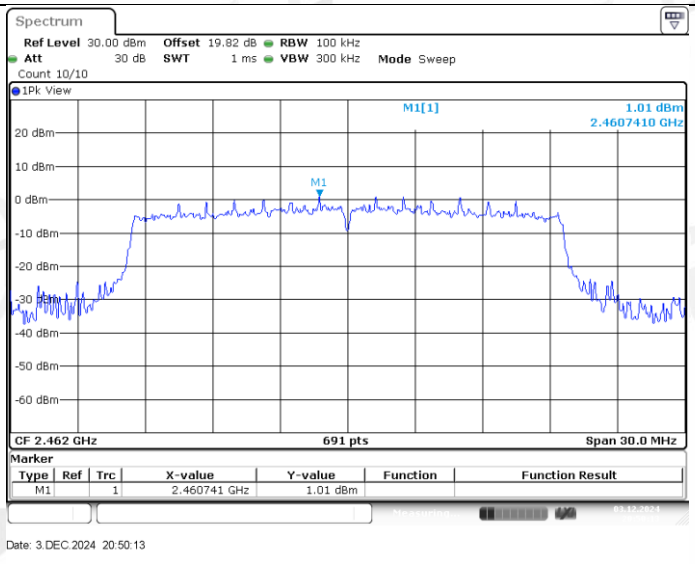
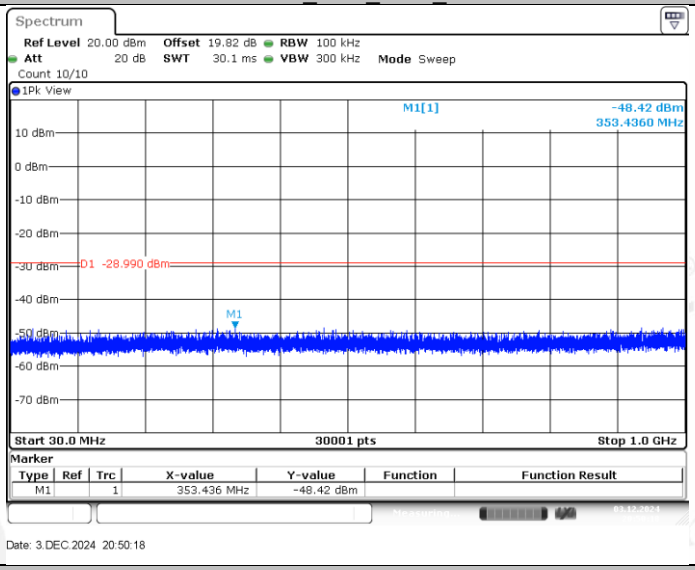
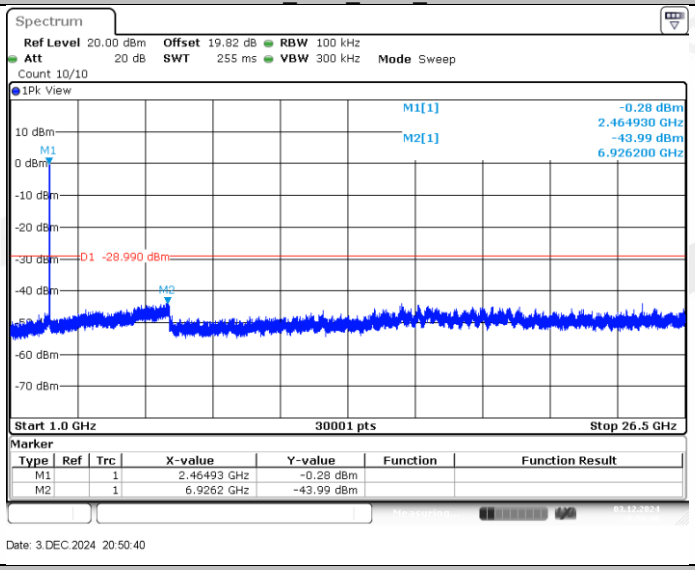


11AX20MIMO_Ant2_2462_30~1000



11AX20MIMO_Ant2_2462_1000~26500



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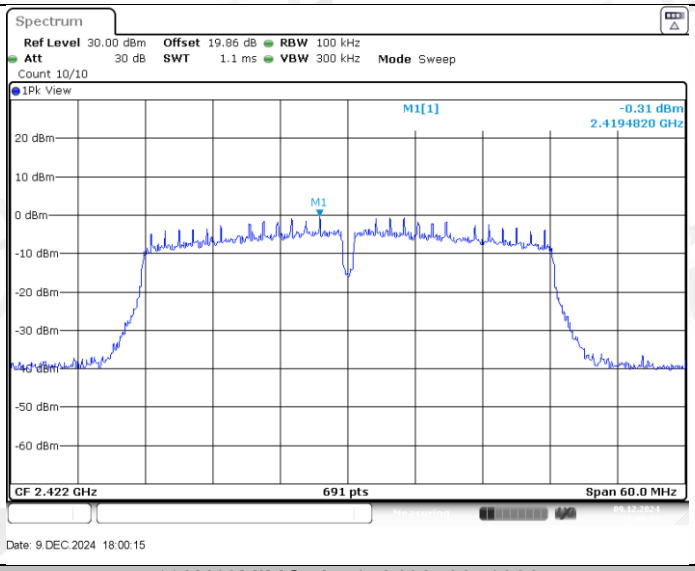
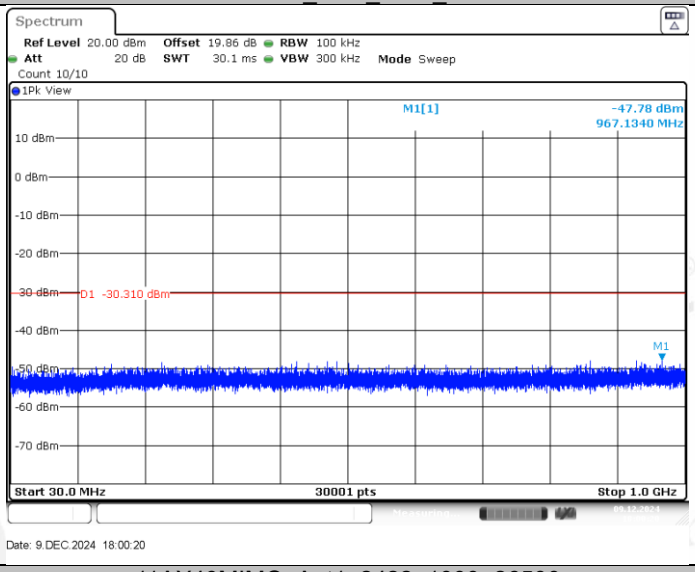
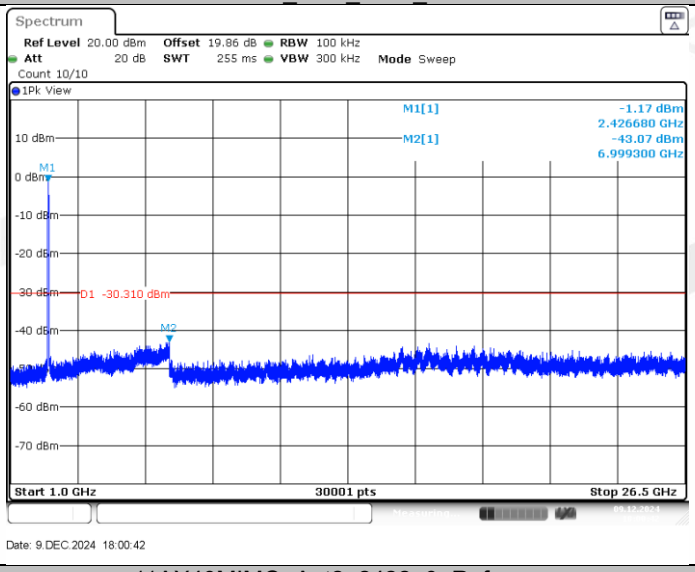


11AX40MIMO_Ant1_2422_30~1000



11AX40MIMO_Ant1_2422_1000~26500



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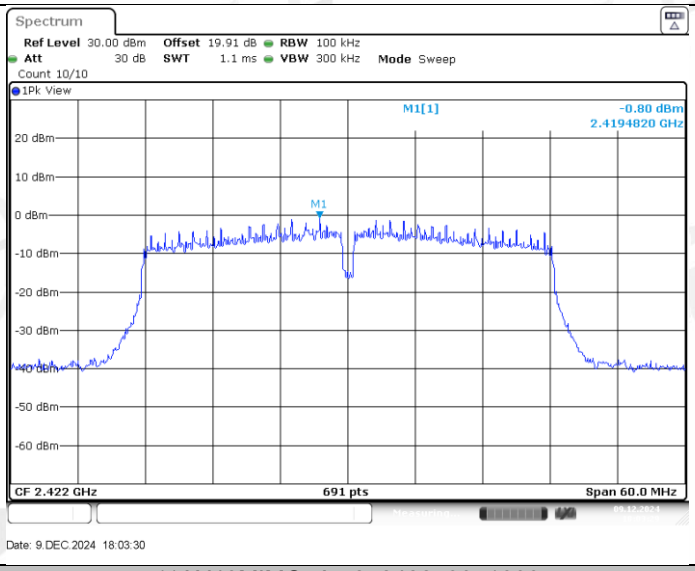

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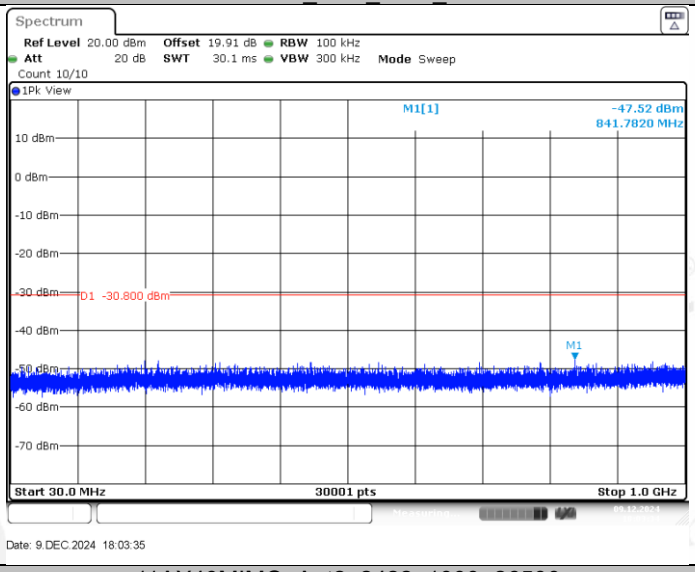
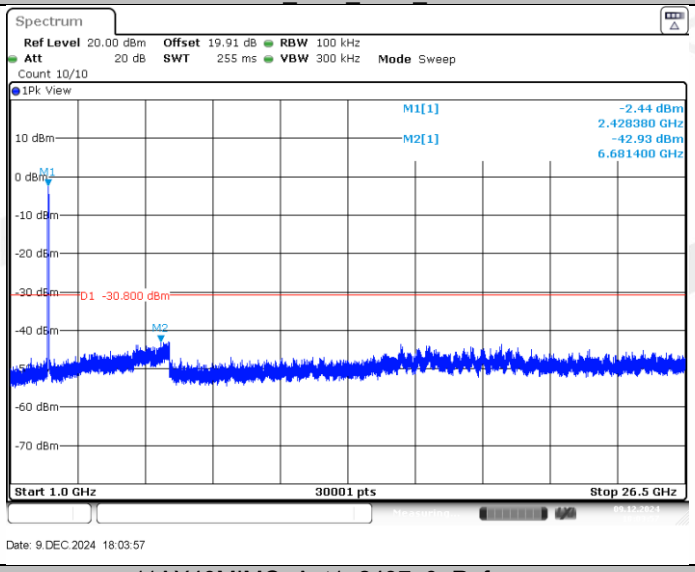


11AX40MIMO_Ant2_2422_1000~26500



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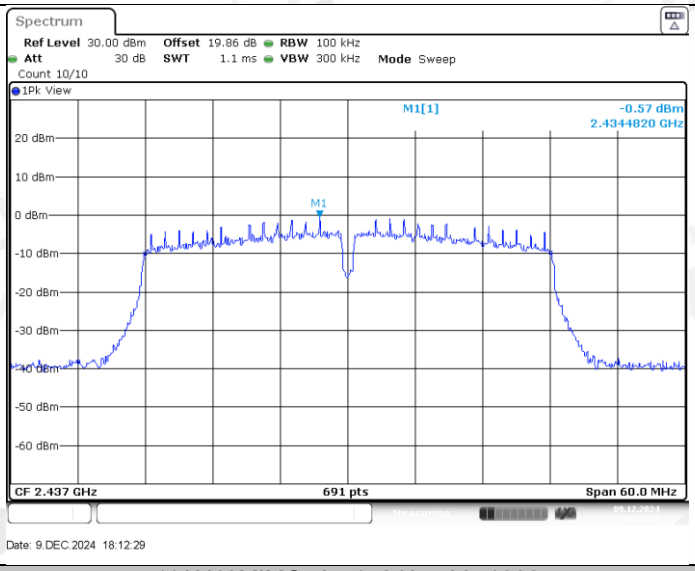

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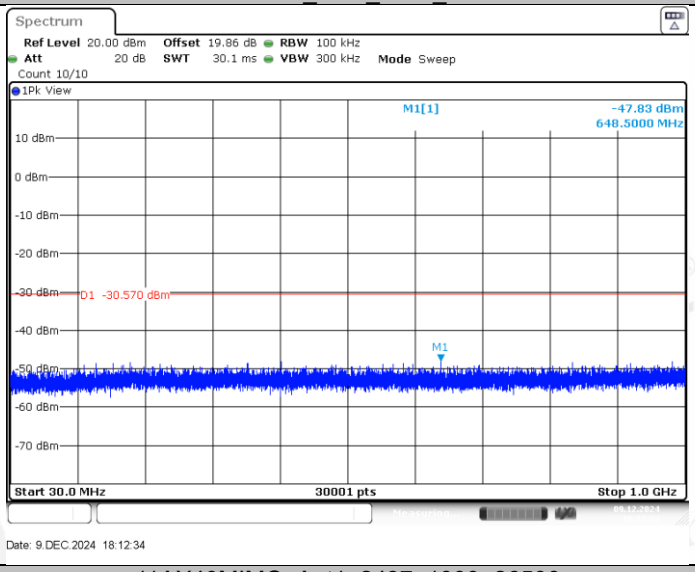
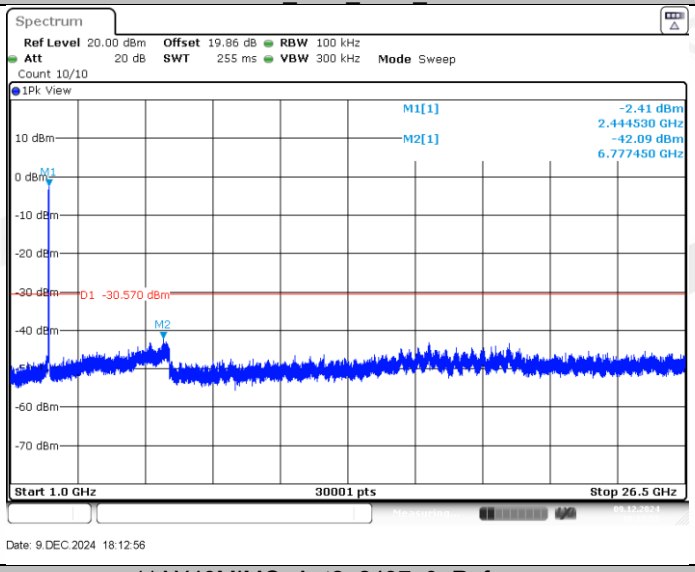
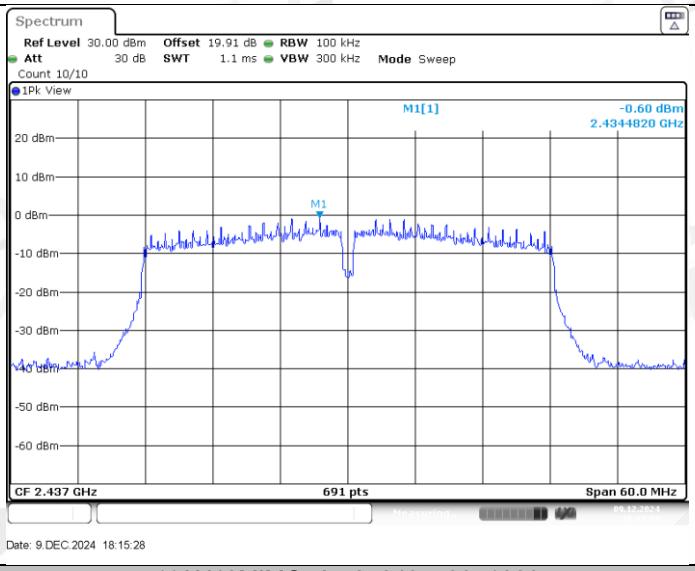


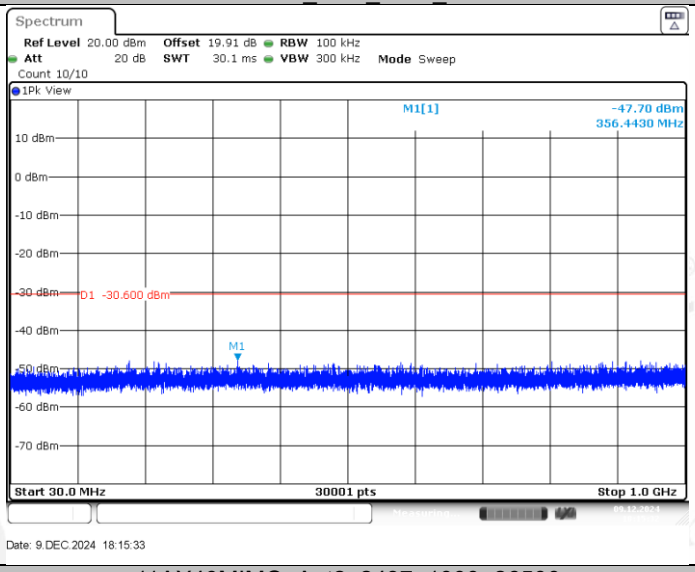
11AX40MIMO_Ant1_2437_1000~26500



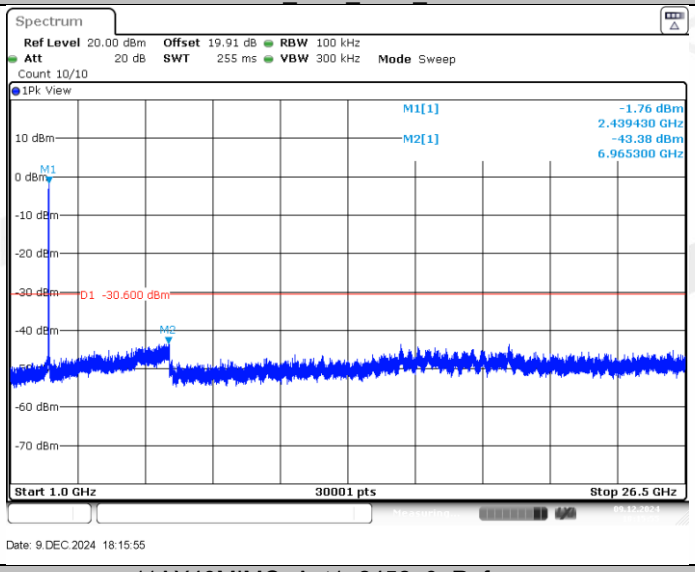
11AX40MIMO_Ant2_2437_0~Reference



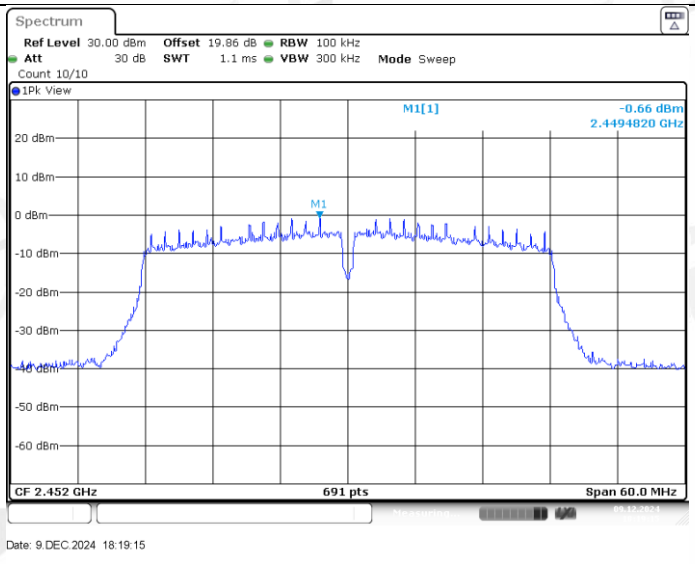
11AX40MIMO_Ant2_2437_30~1000



11AX40MIMO_Ant2_2437_1000~26500



11AX40MIMO_Ant1_2452_0~Reference



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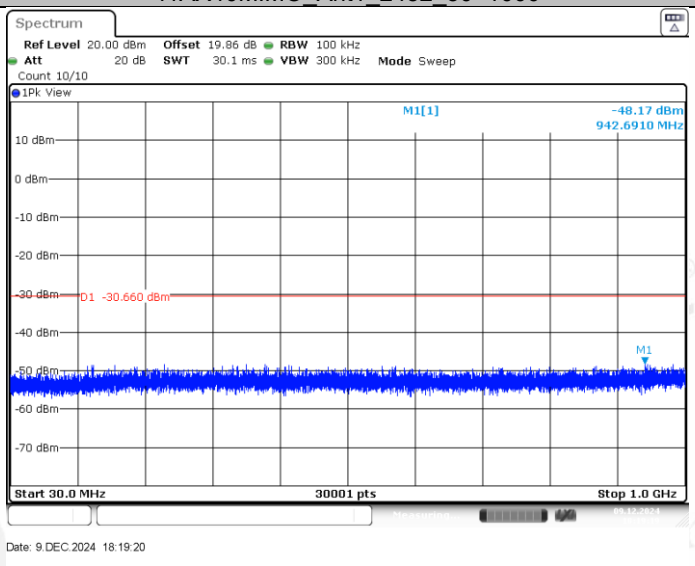

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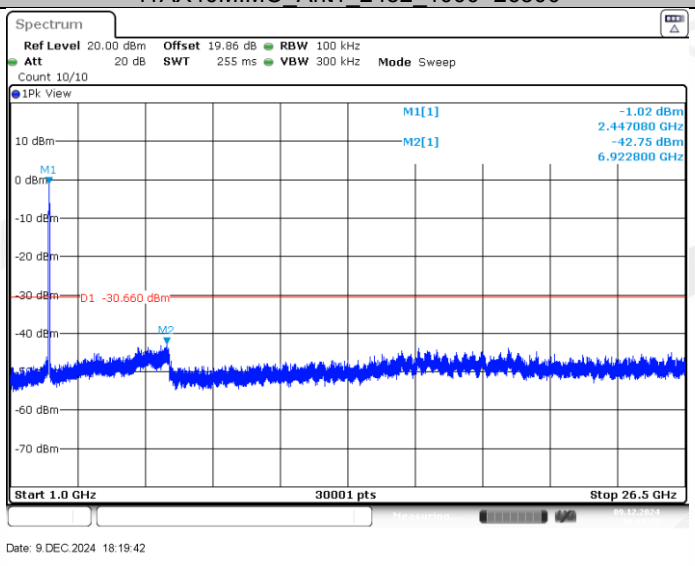
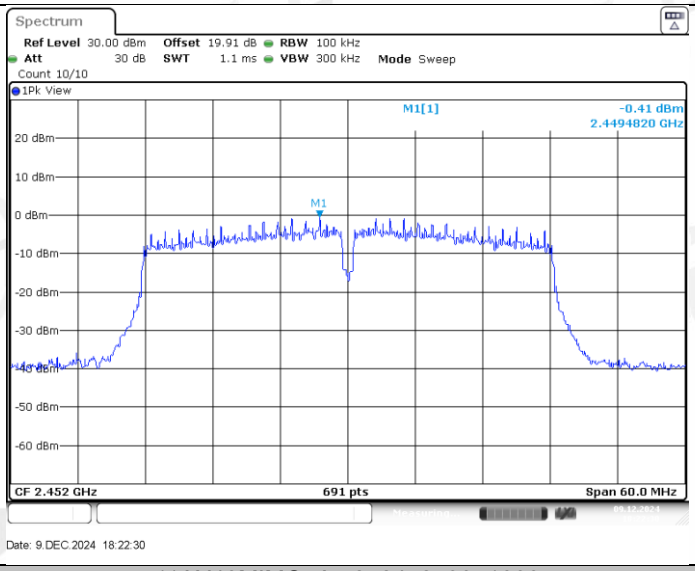


11AX40MIMO_Ant2_2452_0~Reference



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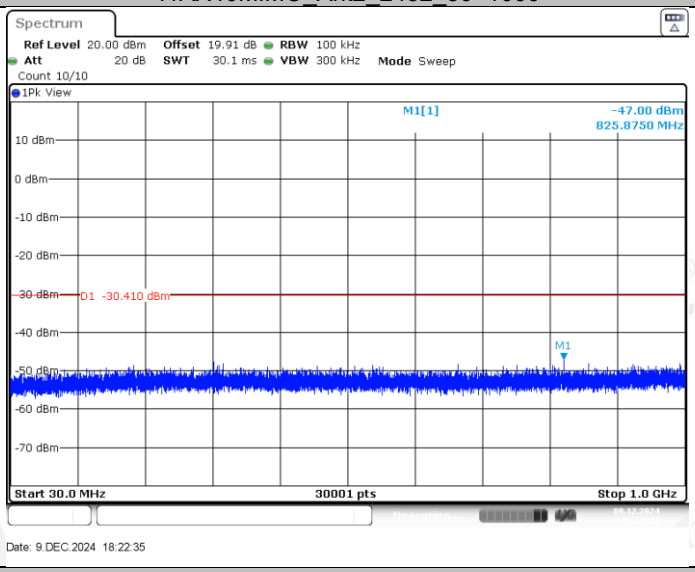
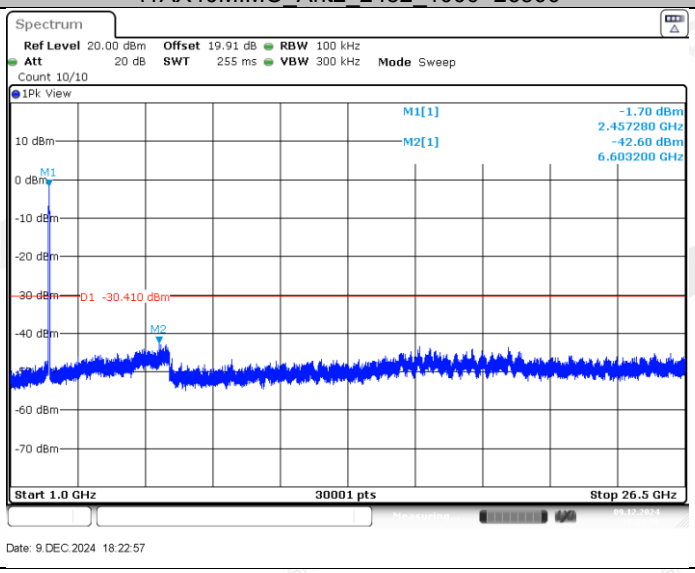
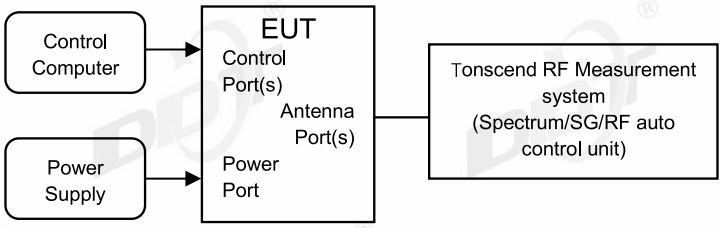


11AX40MIMO_Ant2_2452_1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 10 MHz.
Video BW: 10 MHz.
Span: Zero span.
Detector: Peak.
Trace Mode: Clear Write.
Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

10.4. Test result

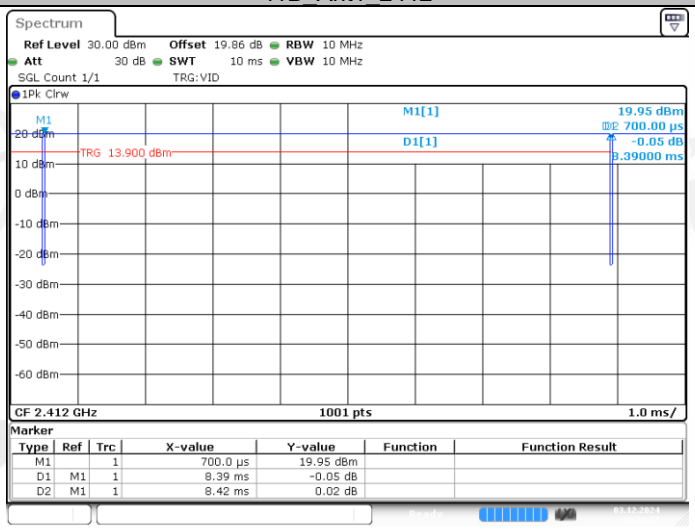
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	22.6-26.3℃,43.6-57.3%RH	Test Date:	2024.11.14-2025.02.10
Test Power Supply:	AC 120V/60Hz	Sample Number:	S24111413-003

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.42	99.64
	Ant2	2412	8.38	8.42	99.52
	Ant1	2437	8.39	8.42	99.64
	Ant2	2437	8.38	8.42	99.52
	Ant1	2462	8.38	8.42	99.52
	Ant2	2462	8.39	8.42	99.64
11G	Ant1	2412	1.40	1.43	97.90
	Ant2	2412	1.39	1.43	97.20
	Ant1	2437	1.39	1.43	97.20
	Ant2	2437	1.39	1.43	97.20
	Ant1	2462	1.40	1.43	97.90
	Ant2	2462	1.39	1.42	97.89
11N20MIMO	Ant1	2412	1.30	1.34	97.01
	Ant2	2412	1.30	1.33	97.74
	Ant1	2437	1.30	1.33	97.74
	Ant2	2437	1.30	1.33	97.74
	Ant1	2462	1.30	1.33	97.74
	Ant2	2462	1.30	1.33	97.74
11N40MIMO	Ant1	2422	0.65	0.68	95.59
	Ant2	2422	0.65	0.69	94.20
	Ant1	2437	0.65	0.68	95.59
	Ant2	2437	0.65	0.68	95.59
	Ant1	2452	0.64	0.68	94.12
	Ant2	2452	0.65	0.68	95.59
11AX20MIMO	Ant1	2412	1.02	1.06	96.23
	Ant2	2412	1.01	1.05	96.19
	Ant1	2437	1.01	1.05	96.19
	Ant2	2437	1.02	1.05	97.14
	Ant1	2462	1.01	1.05	96.19
	Ant2	2462	1.02	1.05	97.14
11AX40MIMO	Ant1	2422	0.53	0.57	92.98
	Ant2	2422	0.54	0.57	94.74
	Ant1	2437	0.53	0.57	92.98
	Ant2	2437	0.54	0.57	94.74
	Ant1	2452	0.53	0.57	92.98
	Ant2	2452	0.53	0.56	94.64

Test Mode	Antenna	Frequency [MHz]	RuSize	RuIndex	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11AX20MIMO	Ant1	2412	26Tone	RU0	0.58	1.20	48.33
				RU4	0.58	1.19	48.74
				RU8	0.58	1.19	48.74
			52Tone	RU37	0.33	0.95	34.74
				RU39	0.33	0.95	34.74
				RU40	0.32	0.95	33.68
			106Tone	RU53	0.20	0.80	25.00
				RU54	0.19	0.80	23.75
	Ant2	2412	26Tone	RU0	0.58	1.19	48.74
				RU4	0.58	1.19	48.74
				RU8	0.58	1.20	48.33
			52Tone	RU37	0.33	0.94	35.11
				RU39	0.33	0.95	34.74
				RU40	0.32	0.95	33.68
			106Tone	RU53	0.20	0.80	25.00
				RU54	0.20	0.80	25.00
	Ant1	2437	26Tone	RU0	0.58	1.19	48.74
				RU4	0.58	1.19	48.74
				RU8	0.58	1.19	48.74
			52Tone	RU37	0.32	0.95	33.68
				RU39	0.32	0.95	33.68
				RU40	0.32	0.94	34.04
			106Tone	RU53	0.19	0.79	24.05
				RU54	0.19	0.81	23.46
	Ant2	2437	26Tone	RU0	0.58	1.20	48.33
				RU4	0.58	1.19	48.74
				RU8	0.58	1.19	48.74
			52Tone	RU37	0.32	0.94	34.04
				RU39	0.33	0.95	34.74
				RU40	0.32	0.94	34.04
			106Tone	RU53	0.20	0.82	24.39
				RU54	0.19	0.79	24.05
	Ant1	2462	26Tone	RU0	0.58	1.19	48.74
				RU4	0.58	1.20	48.33
				RU8	0.58	1.19	48.74
			52Tone	RU37	0.33	0.95	34.74
				RU39	0.33	0.95	34.74
				RU40	0.33	0.95	34.74
			106Tone	RU53	0.20	0.80	25.00
				RU54	0.20	0.80	25.00
	Ant2	2462	26Tone	RU0	0.58	1.19	48.74
				RU4	0.58	1.20	48.33
				RU8	0.58	1.19	48.74
			52Tone	RU37	0.33	0.95	34.74
				RU39	0.33	0.95	34.74
				RU40	0.32	0.94	34.04
			106Tone	RU53	0.19	0.79	24.05
				RU54	0.19	0.80	23.75
11AX40MIMO	Ant1	2422	242Tone	RU61	0.12	0.74	16.22
				RU62	0.12	0.74	16.22
	Ant2	2422	242Tone	RU61	0.12	0.73	16.44
				RU62	0.12	0.73	16.44
	Ant1	2437	242Tone	RU61	0.12	0.73	16.44
				RU62	0.12	0.73	16.44
	Ant2	2437	242Tone	RU61	0.12	0.74	16.22
				RU62	0.12	0.74	16.22
	Ant1	2452	242Tone	RU61	0.12	0.73	16.44
				RU62	0.12	0.73	16.44
	Ant2	2452	242Tone	RU61	0.12	0.74	16.22
				RU62	0.12	0.74	16.22

10.5. Test graphs

11B_Ant1_2412



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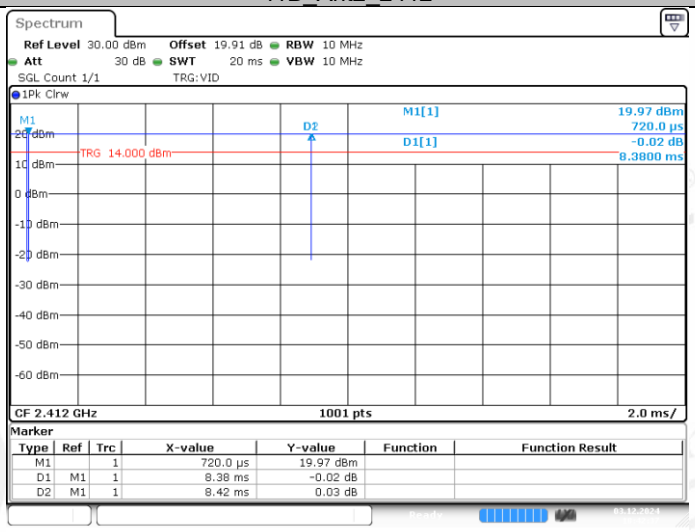

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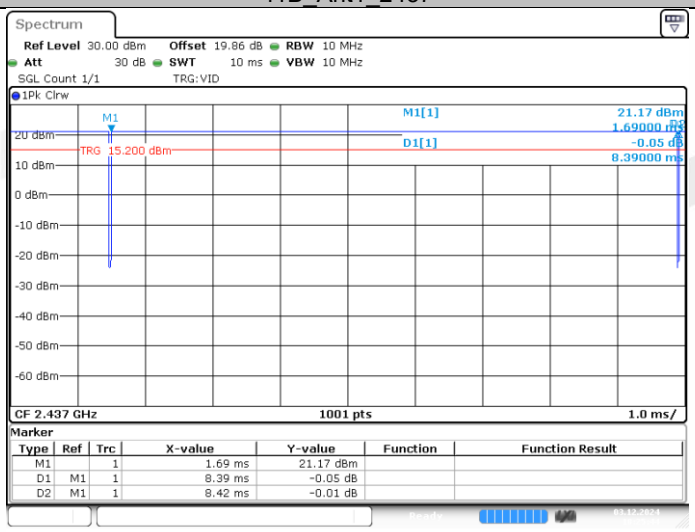

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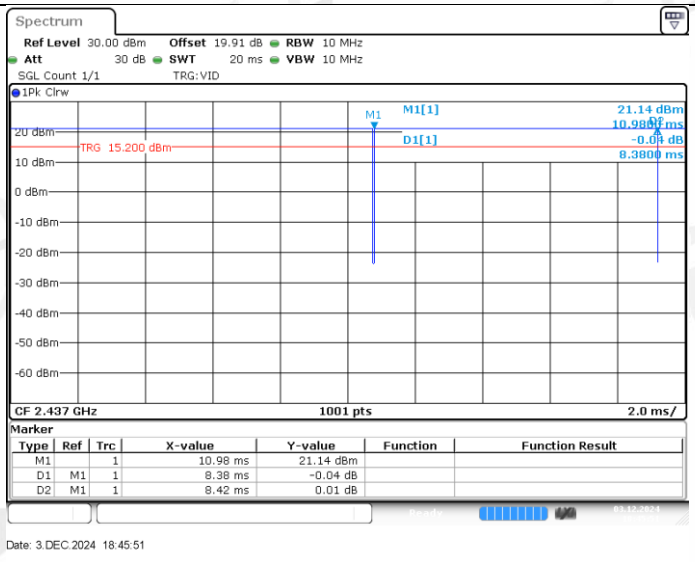

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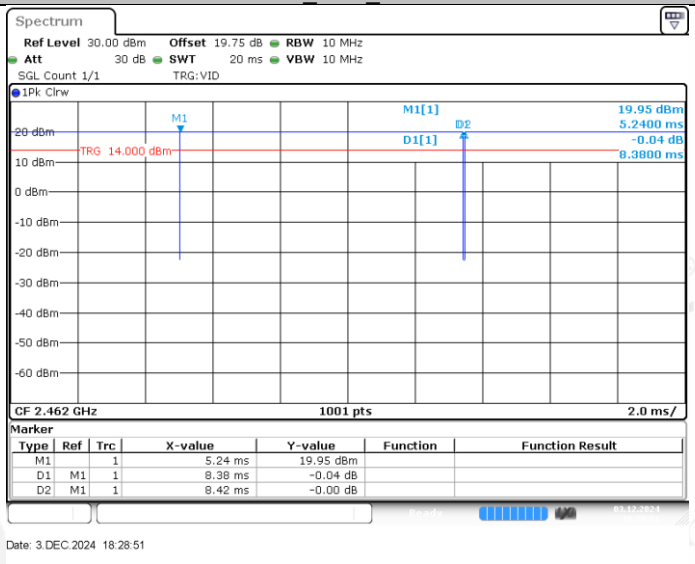

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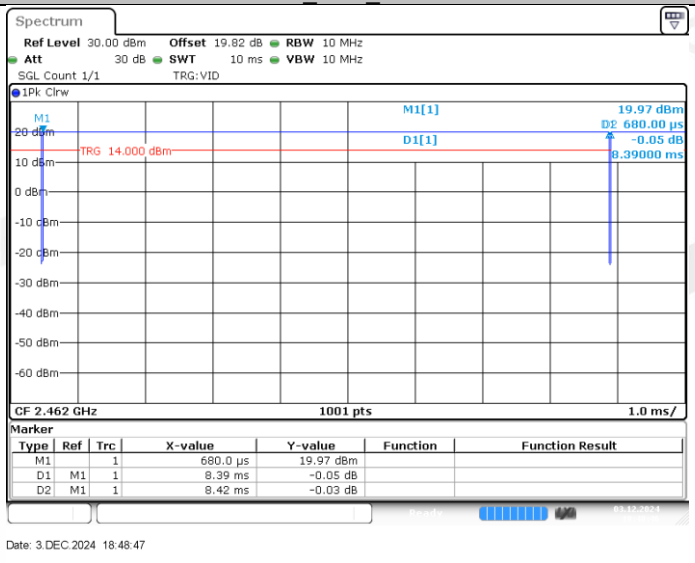

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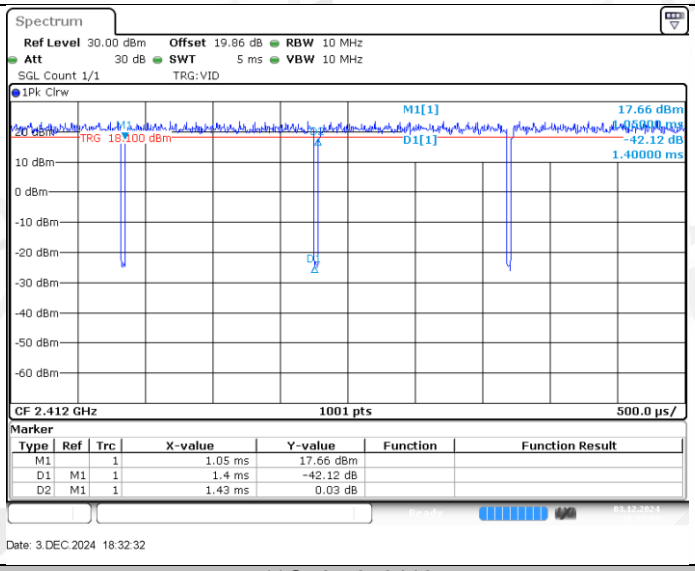

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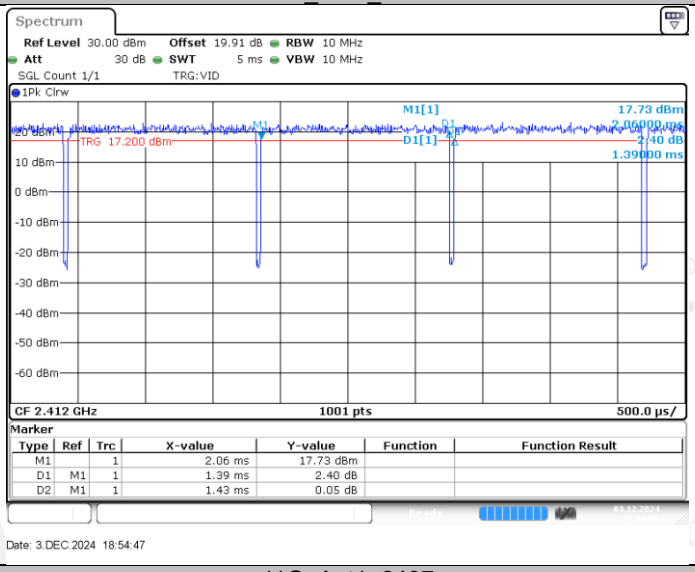

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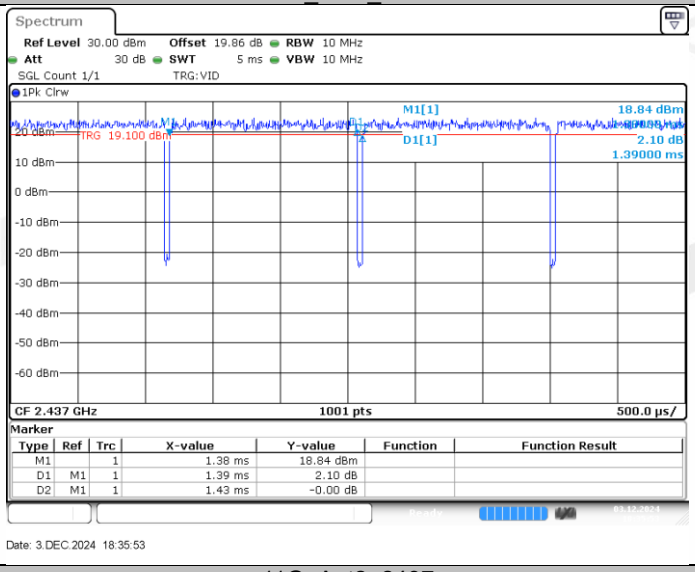

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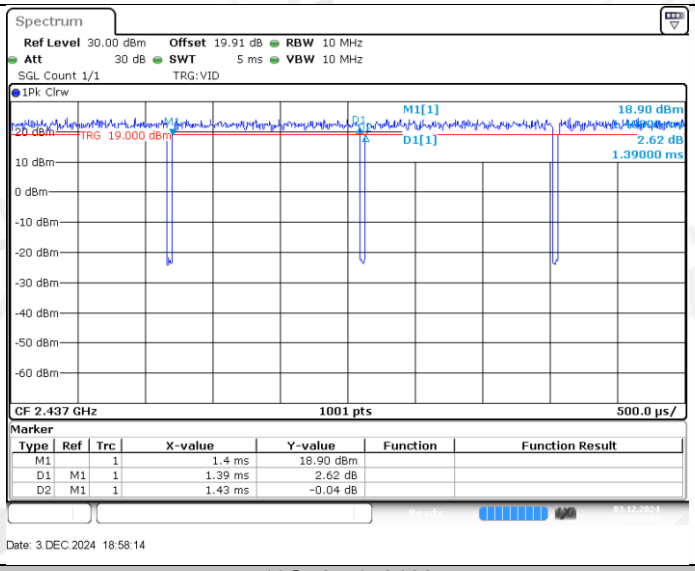

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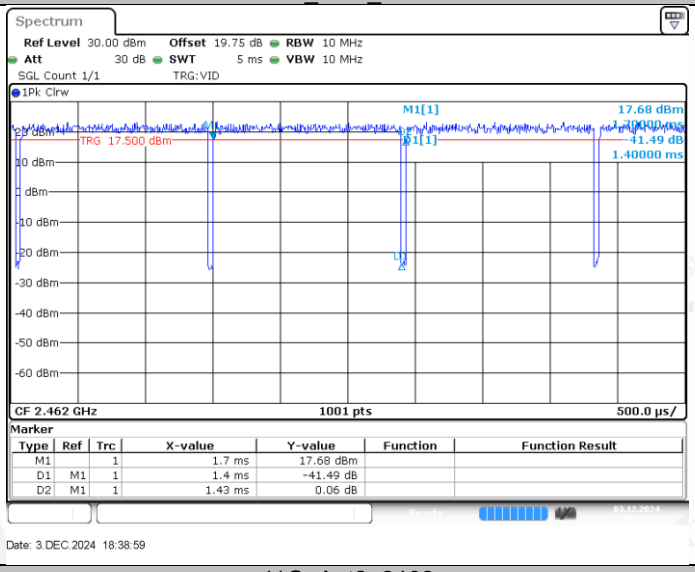

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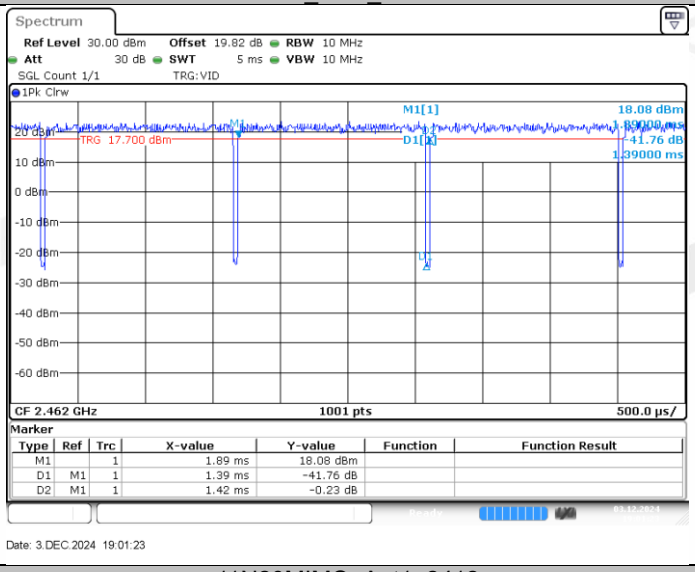

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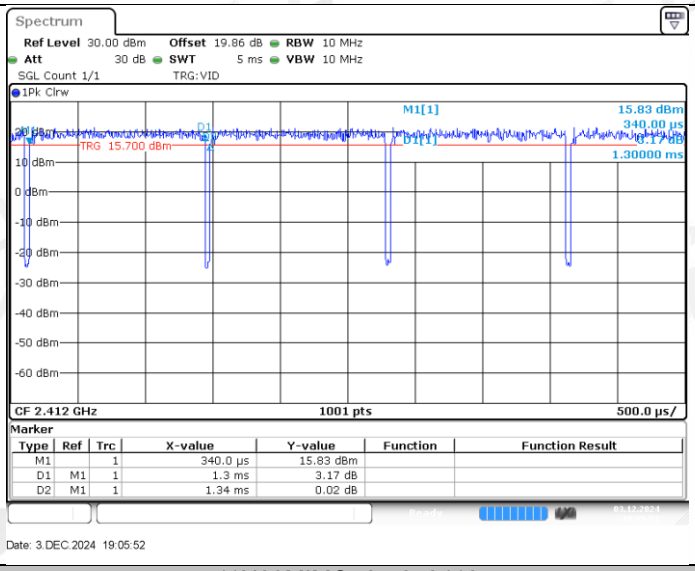

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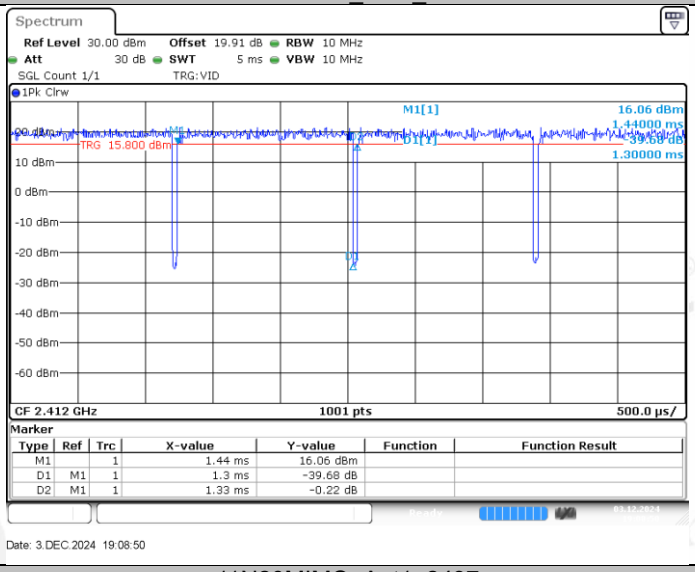

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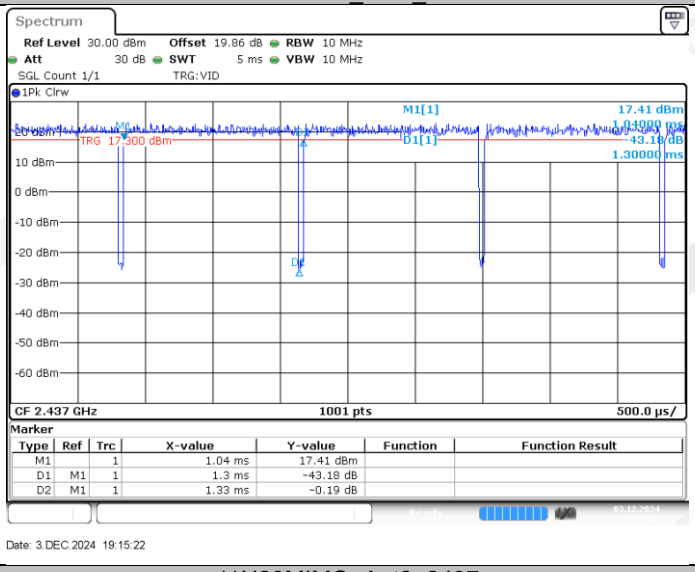

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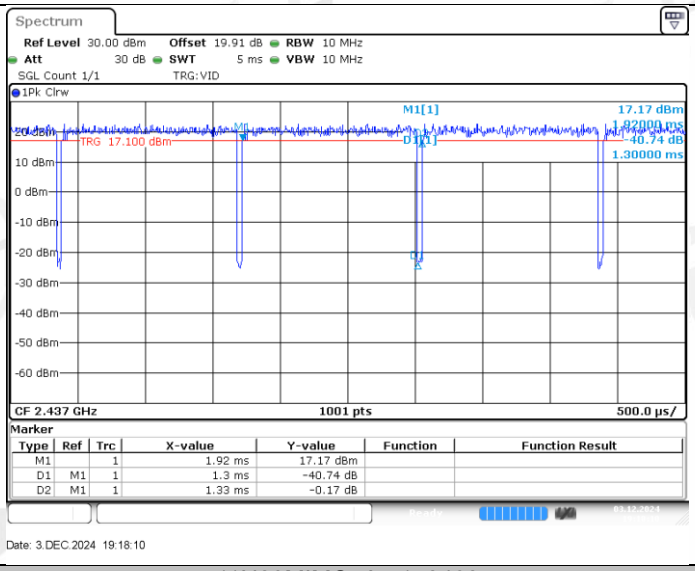

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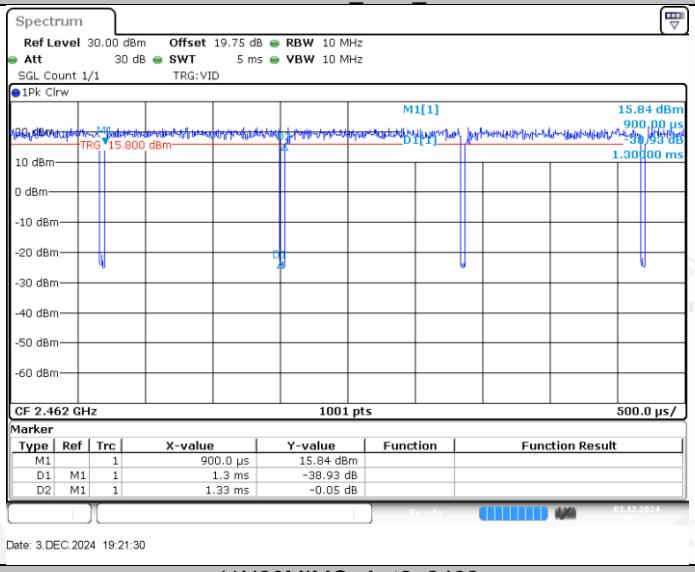

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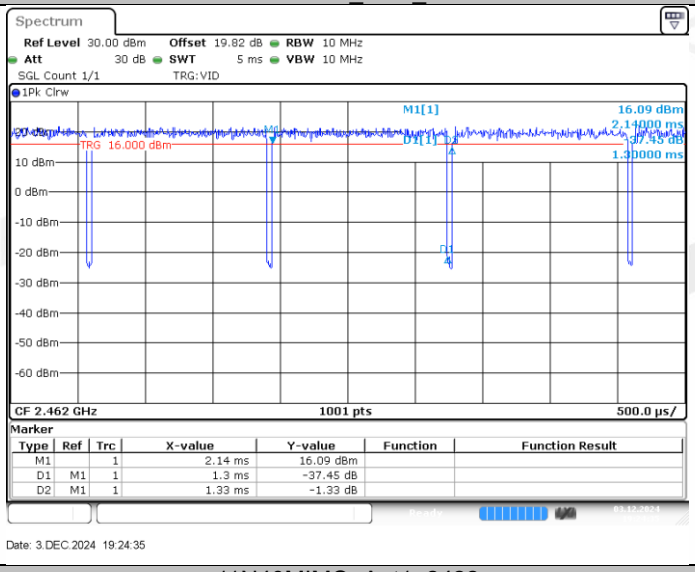

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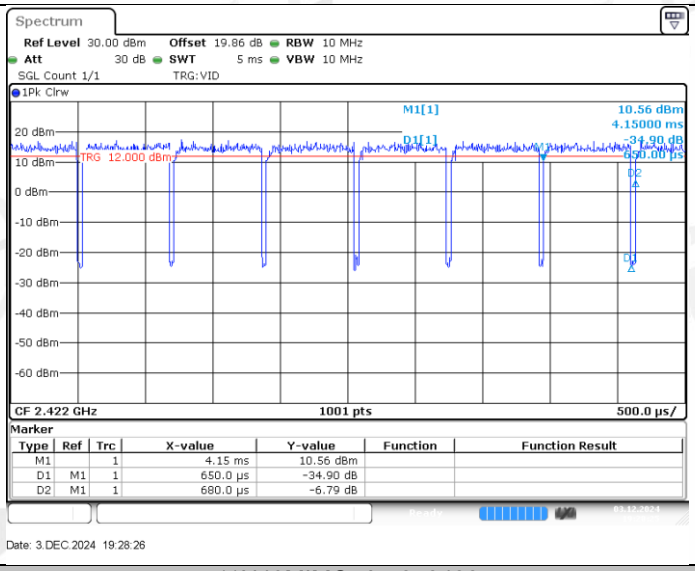

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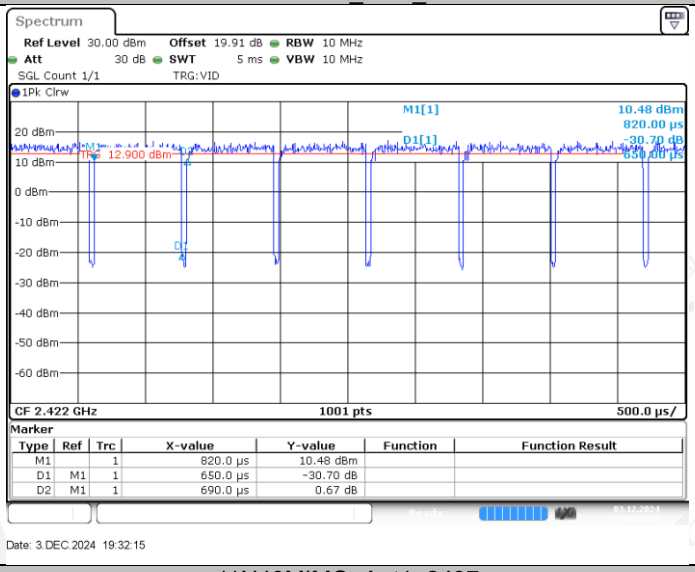

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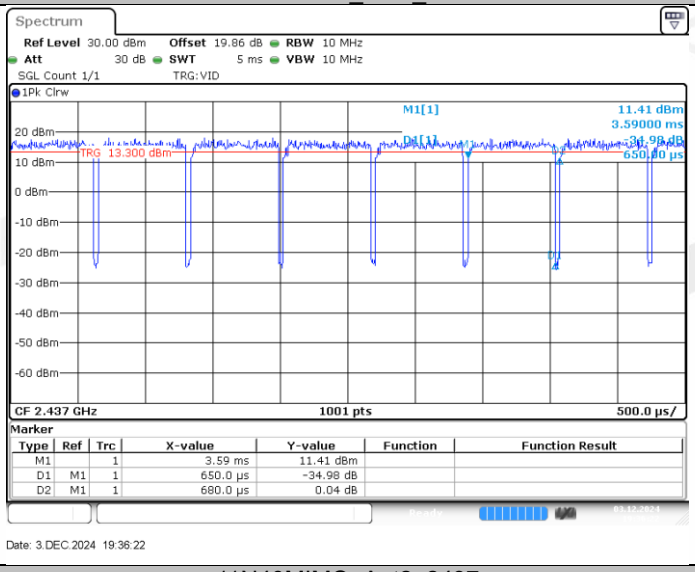

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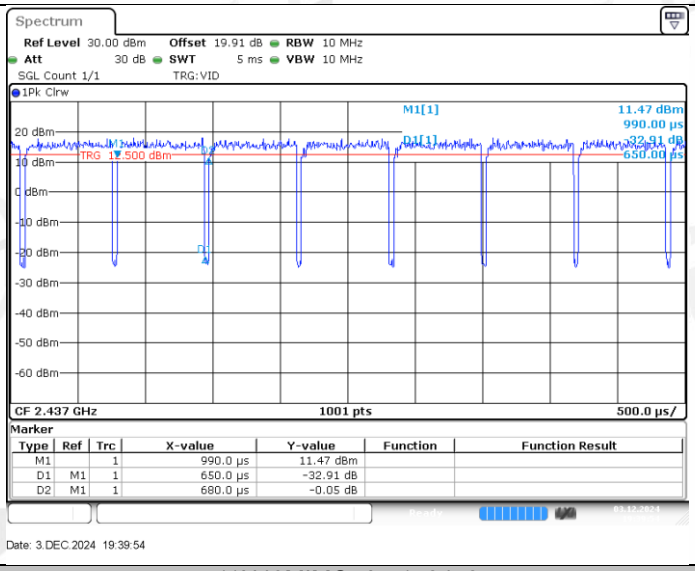

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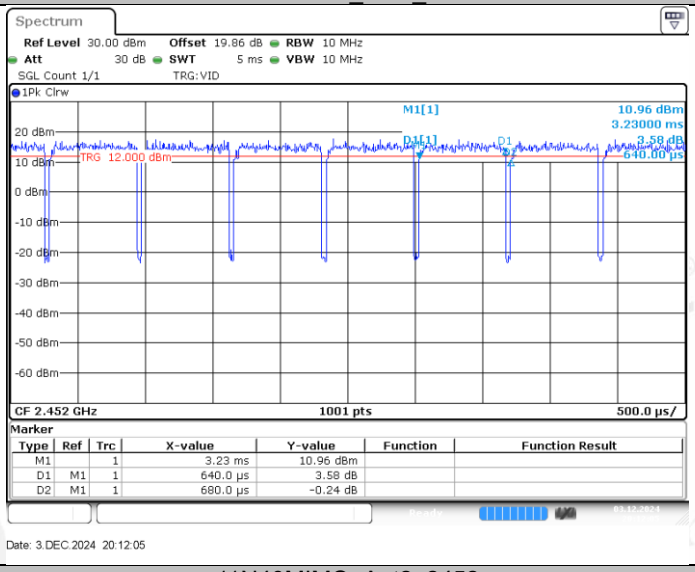

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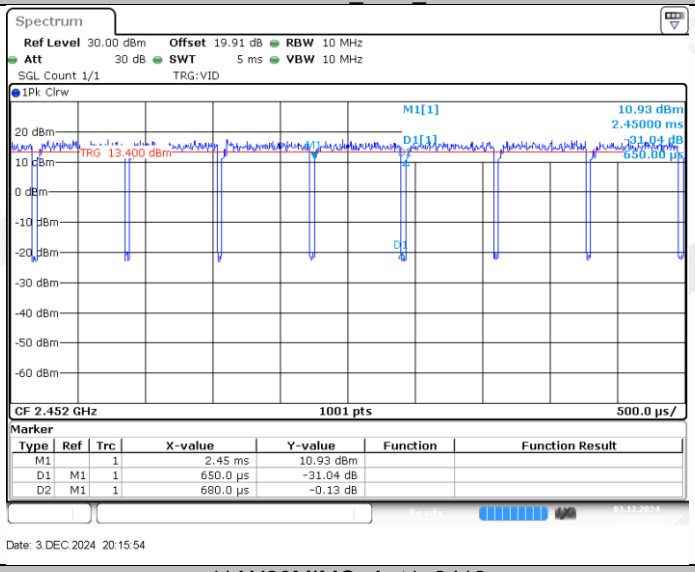
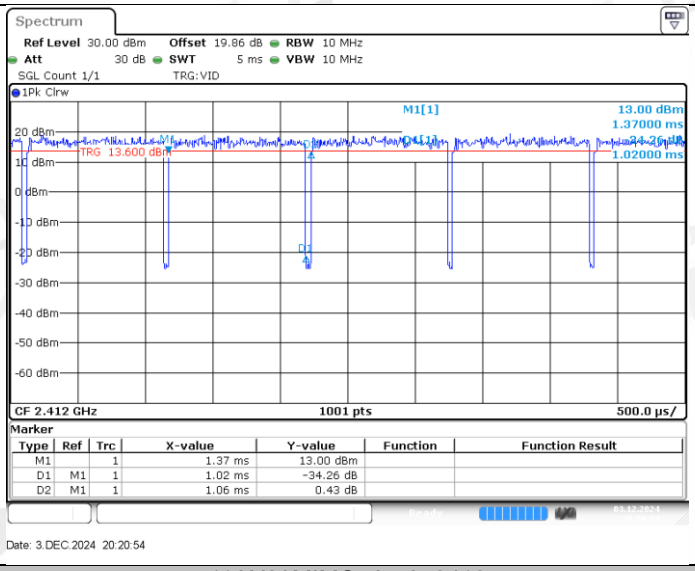


11AX20MIMO_Ant1_2412



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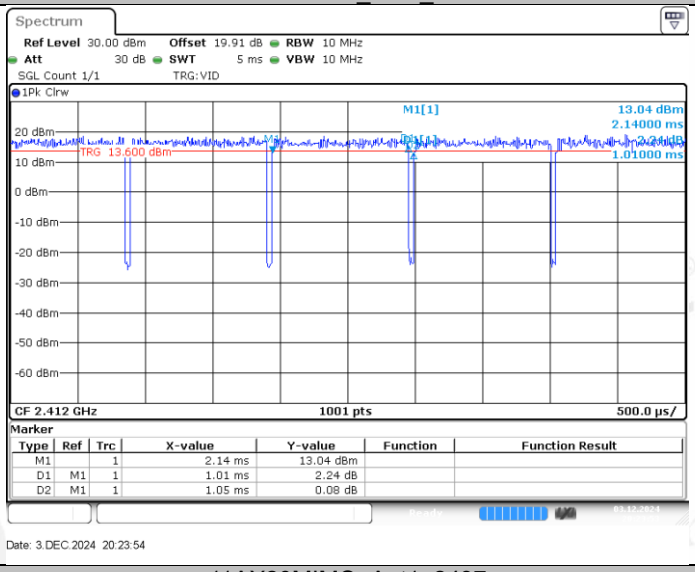

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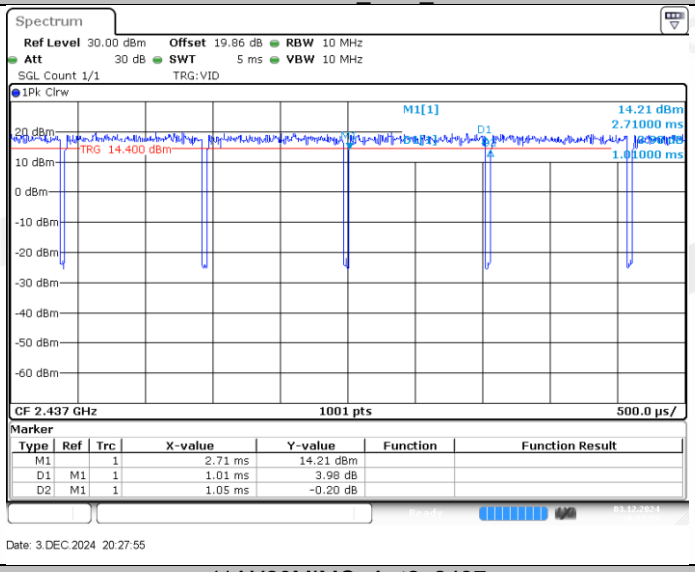

11AX20MIMO_Ant2_2437