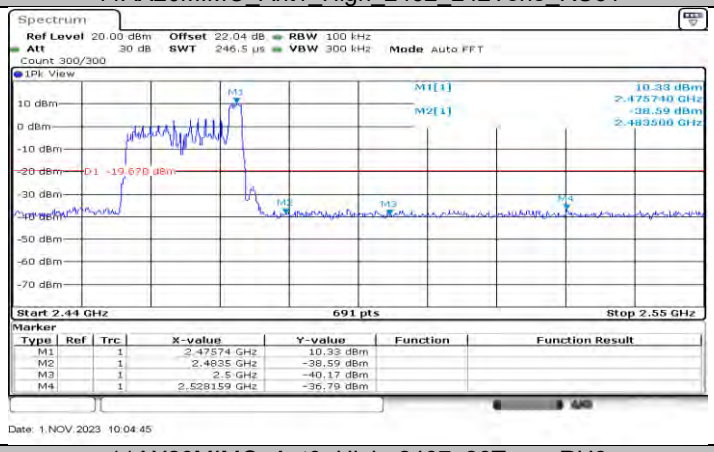
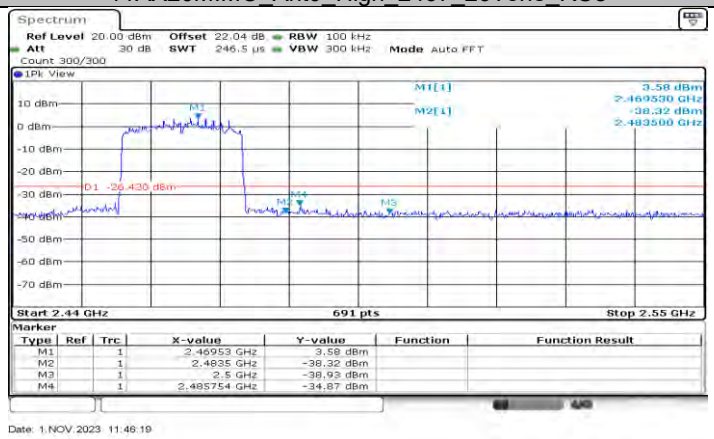
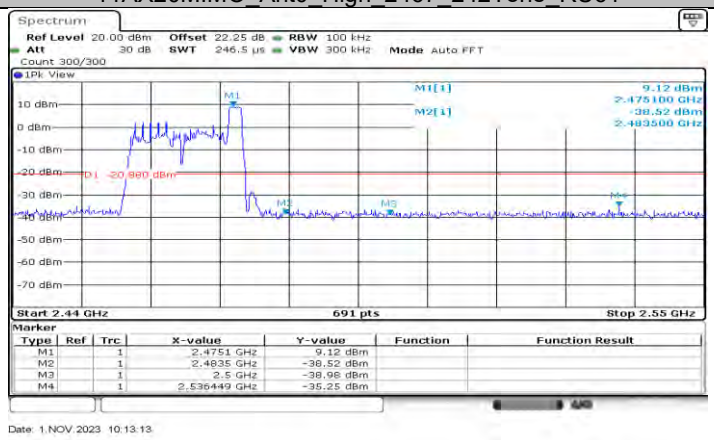
11AX20MIMO_Ant1_High_2462_242Tone_RU61



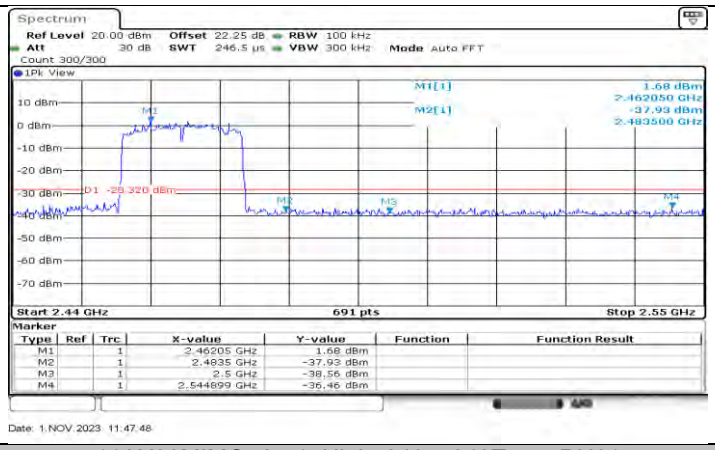
11AX20MIMO_Ant0_High_2467_26Tone_RU8



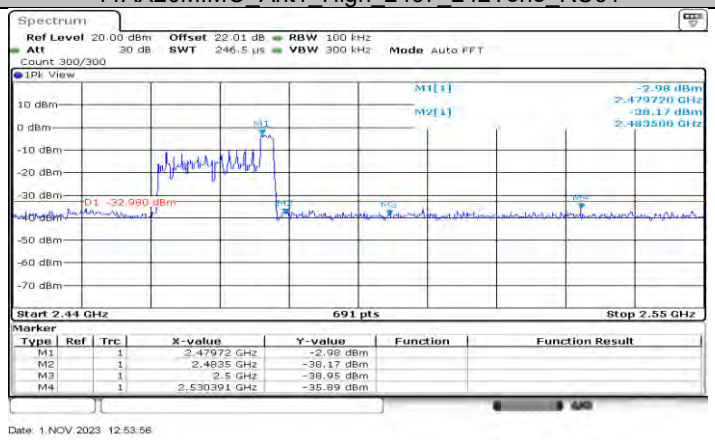
11AX20MIMO_Ant0_High_2467_242Tone_RU61



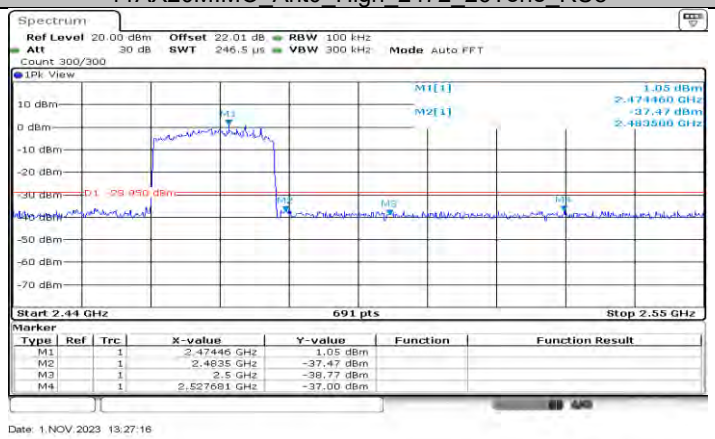
11AX20MIMO_Ant1_High_2467_26Tone_RU8



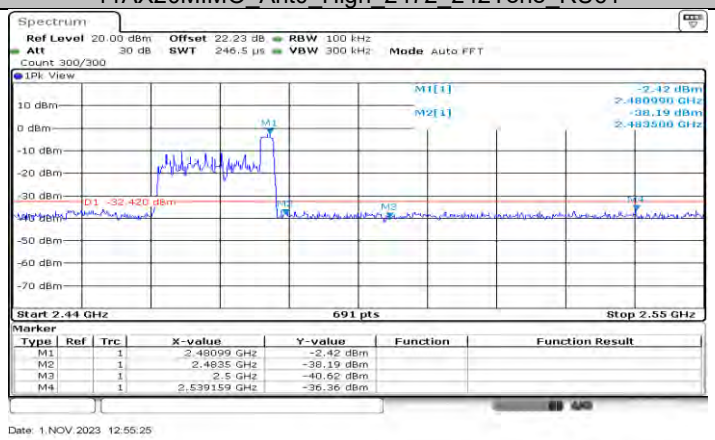
11AX20MIMO_Ant1_High_2467_242Tone_RU61



11AX20MIMO_Ant0_High_2472_26Tone_RU8



11AX20MIMO_Ant0_High_2472_242Tone_RU61



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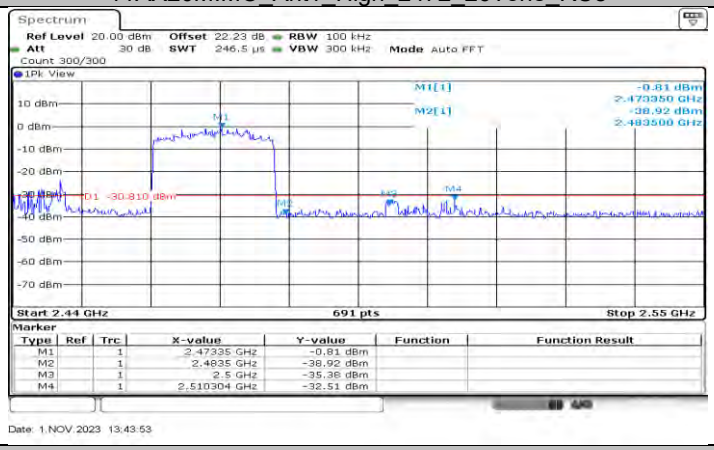

11AX20MIMO_Ant1_High_2472_242Tone_RU61

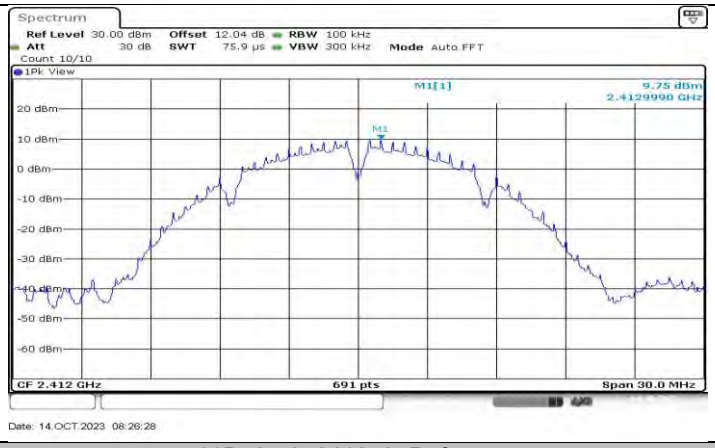
11.11. APPENDIX F1: CONDUCTED SPURIOUS EMISSION

11.11.1. Test Result

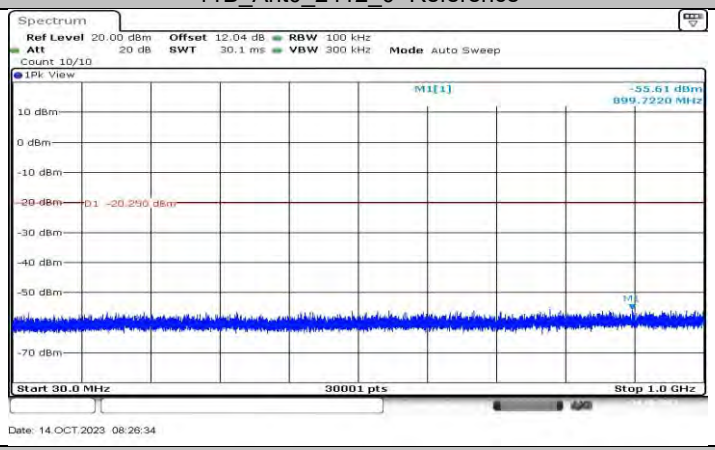
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	9.75	---	PASS
			30~1000	-55.61	≤-20.25	PASS
			1000~26500	-44.09	≤-20.25	PASS
	Ant1	2412	Reference	10.87	---	PASS
			30~1000	-55.52	≤-19.13	PASS
			1000~26500	-42.99	≤-19.13	PASS
	Ant0	2437	Reference	9.83	---	PASS
			30~1000	-55.65	≤-20.17	PASS
			1000~26500	-43.09	≤-20.17	PASS
	Ant1	2437	Reference	11.19	---	PASS
			30~1000	-54.56	≤-18.81	PASS
			1000~26500	-43.27	≤-18.81	PASS
	Ant0	2462	Reference	9.74	---	PASS
			30~1000	-55.04	≤-20.26	PASS
			1000~26500	-44.41	≤-20.26	PASS
	Ant1	2462	Reference	10.33	---	PASS
			30~1000	-54.73	≤-19.67	PASS
			1000~26500	-42.58	≤-19.67	PASS
	Ant0	2467	Reference	10.87	---	PASS
			30~1000	-44.97	≤-19.13	PASS
			1000~26500	-44.22	≤-19.13	PASS
	Ant1	2467	Reference	10.38	---	PASS
			30~1000	-45.11	≤-19.62	PASS
			1000~26500	-43.41	≤-19.62	PASS
	Ant0	2472	Reference	7.70	---	PASS
			30~1000	-45.58	≤-22.3	PASS
			1000~26500	-42.98	≤-22.3	PASS
	Ant1	2472	Reference	7.42	---	PASS
			30~1000	-44.72	≤-22.58	PASS
			1000~26500	-43.98	≤-22.58	PASS
11G	Ant0	2412	Reference	6.31	---	PASS
			30~1000	-55.48	≤-23.69	PASS
			1000~26500	-42.88	≤-23.69	PASS
	Ant1	2412	Reference	6.84	---	PASS
			30~1000	-55.22	≤-23.16	PASS
			1000~26500	-43.86	≤-23.16	PASS
	Ant0	2437	Reference	5.68	---	PASS
			30~1000	-55.31	≤-24.32	PASS
			1000~26500	-43.77	≤-24.32	PASS
	Ant1	2437	Reference	6.53	---	PASS
			30~1000	-55.57	≤-23.47	PASS
			1000~26500	-43.48	≤-23.47	PASS
	Ant0	2462	Reference	5.42	---	PASS
			30~1000	-55.65	≤-24.58	PASS
			1000~26500	-43.98	≤-24.58	PASS
	Ant1	2462	Reference	5.72	---	PASS
			30~1000	-54.69	≤-24.28	PASS
			1000~26500	-43.79	≤-24.28	PASS
	Ant0	2467	Reference	2.29	---	PASS
			30~1000	-45.08	≤-27.71	PASS
			1000~26500	-41.9	≤-27.71	PASS
	Ant1	2467	Reference	1.25	---	PASS
			30~1000	-45.3	≤-28.75	PASS
			1000~26500	-43.71	≤-28.75	PASS
	Ant0	2472	Reference	2.45	---	PASS
			30~1000	-44.82	≤-27.55	PASS
			1000~26500	-43.62	≤-27.55	PASS
	Ant1	2472	Reference	3.85	---	PASS

			30~1000	-45.16	≤-26.15	PASS
			1000~26500	-43.26	≤-26.15	PASS
11N20MIMO	Ant0	2412	Reference	6.10	---	PASS
			30~1000	-55.74	≤-23.9	PASS
			1000~26500	-43.61	≤-23.9	PASS
	Ant1	2412	Reference	6.89	---	PASS
			30~1000	-54.98	≤-23.11	PASS
			1000~26500	-43.93	≤-23.11	PASS
	Ant0	2437	Reference	5.72	---	PASS
			30~1000	-54.97	≤-24.28	PASS
			1000~26500	-43.7	≤-24.28	PASS
	Ant1	2437	Reference	6.18	---	PASS
			30~1000	-54.71	≤-23.82	PASS
			1000~26500	-43.58	≤-23.82	PASS
	Ant0	2462	Reference	5.32	---	PASS
			30~1000	-55.71	≤-24.68	PASS
			1000~26500	-43.45	≤-24.68	PASS
	Ant1	2462	Reference	5.88	---	PASS
			30~1000	-54.36	≤-24.12	PASS
			1000~26500	-42.71	≤-24.12	PASS
	Ant0	2467	Reference	4.57	---	PASS
			30~1000	-45.1	≤-25.43	PASS
			1000~26500	-43.08	≤-25.43	PASS
	Ant1	2467	Reference	3.78	---	PASS
			30~1000	-45.31	≤-26.22	PASS
			1000~26500	-43.83	≤-26.22	PASS
	Ant0	2472	Reference	-3.01	---	PASS
			30~1000	-45.48	≤-33.01	PASS
			1000~26500	-44.42	≤-33.01	PASS
	Ant1	2472	Reference	-3.89	---	PASS
			30~1000	-45.09	≤-33.89	PASS
			1000~26500	-43.71	≤-33.89	PASS

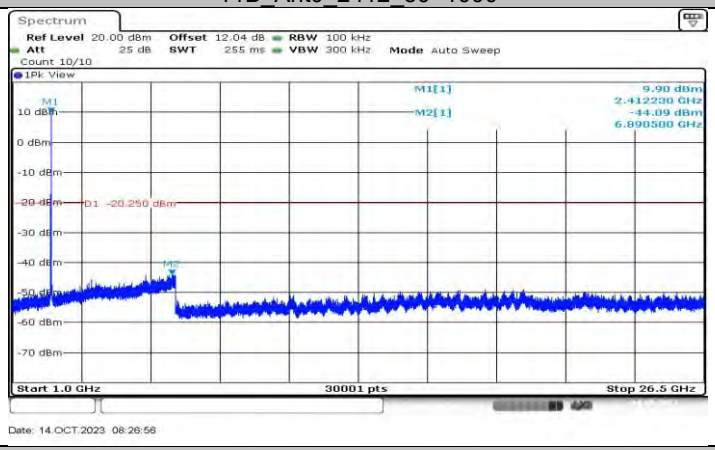
11.11.2. Test Graphs



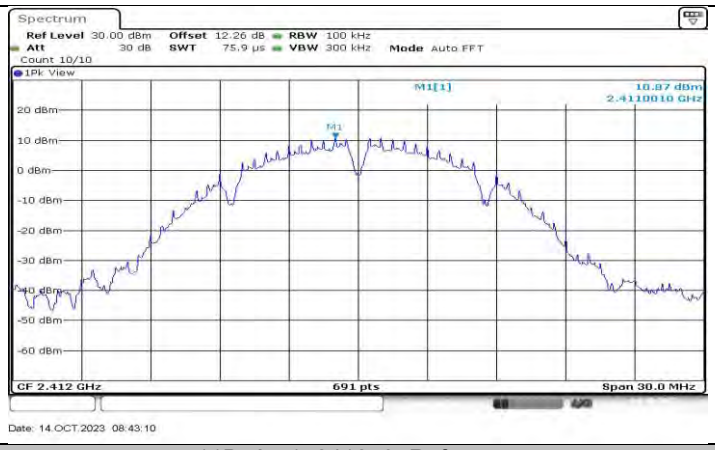
11B_Ant0_2412_0~Reference



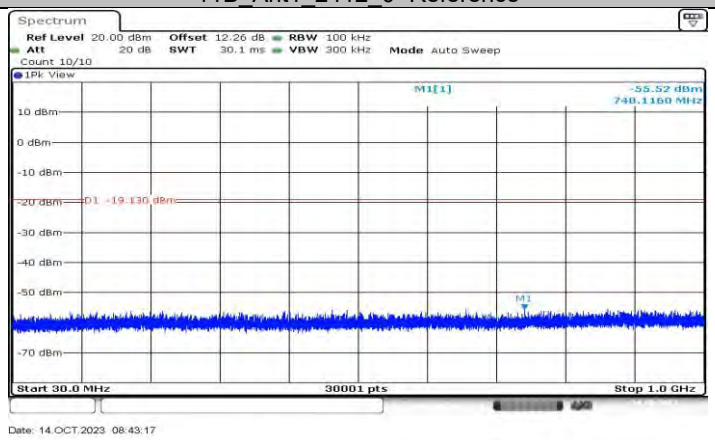
11B_Ant0_2412_30~1000



11B_Ant0_2412_1000~26500



11B_Ant1_2412_0~Reference



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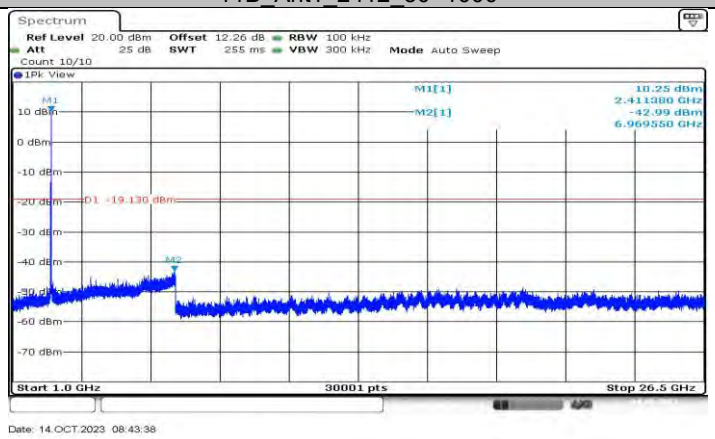

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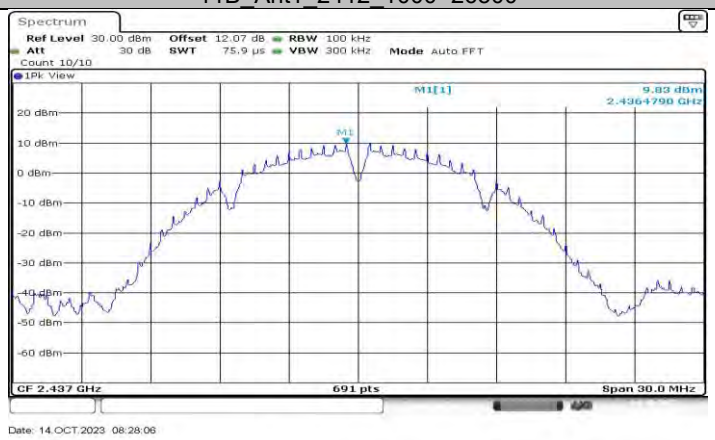

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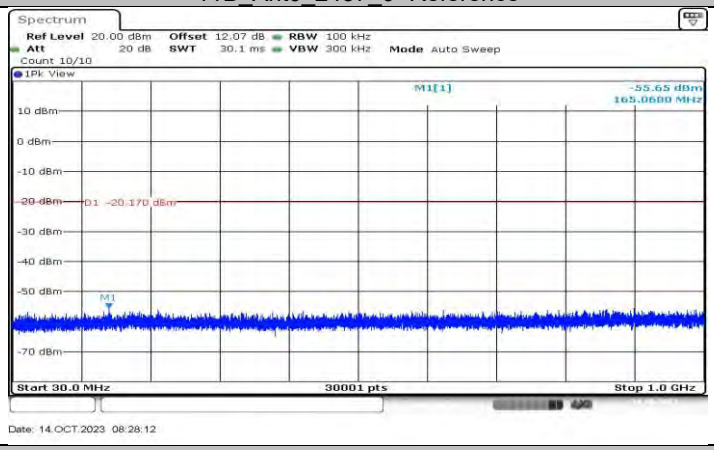

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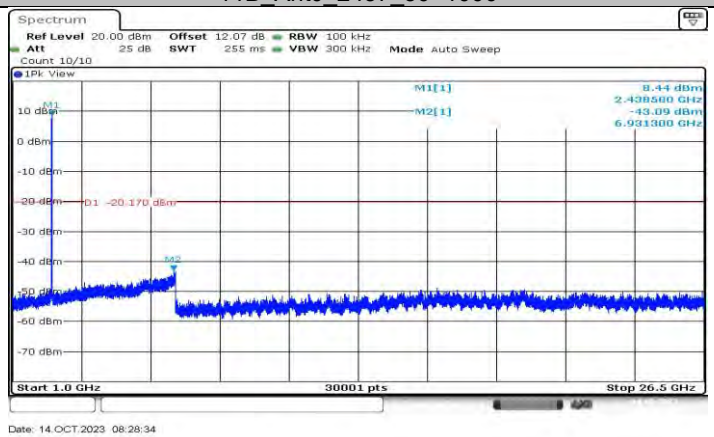

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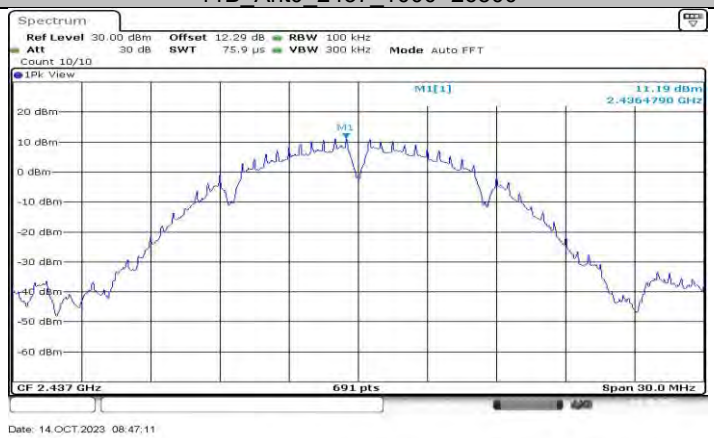
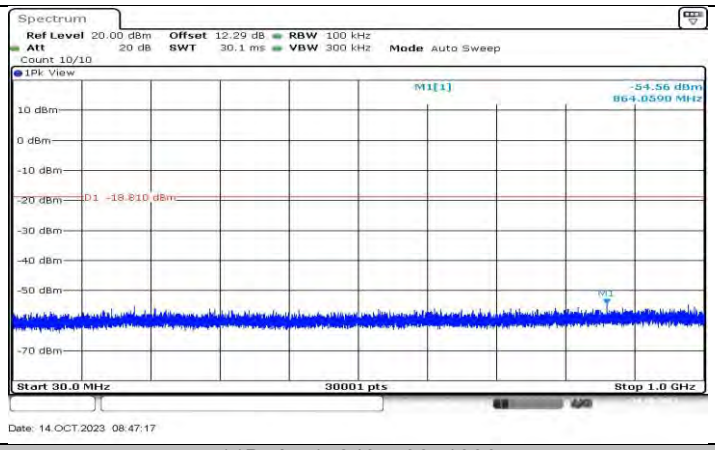


11B_Ant1_2437_0~Reference



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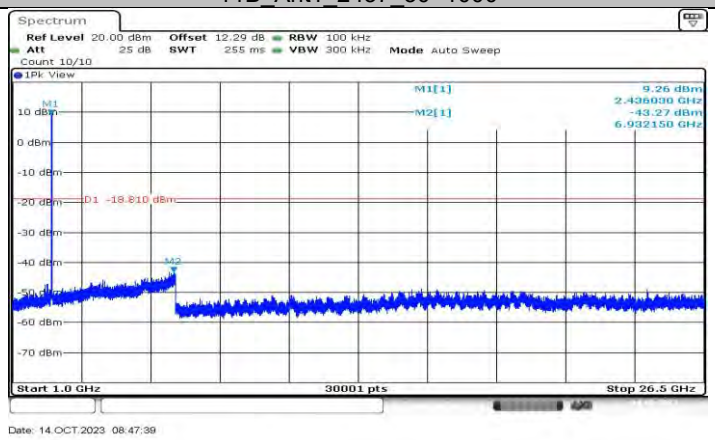
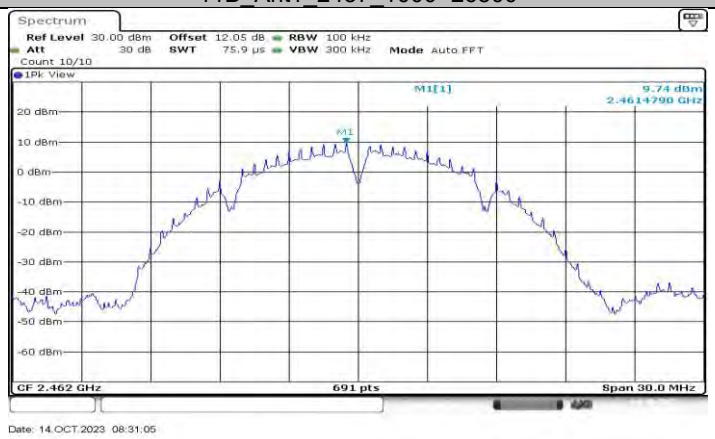


11B_Ant1_2437_1000~26500



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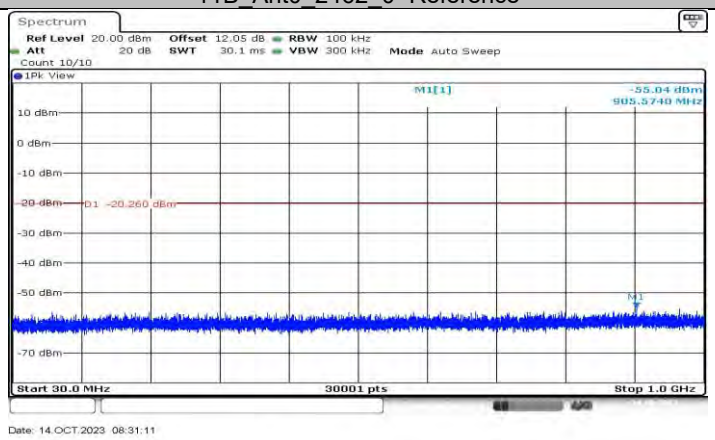

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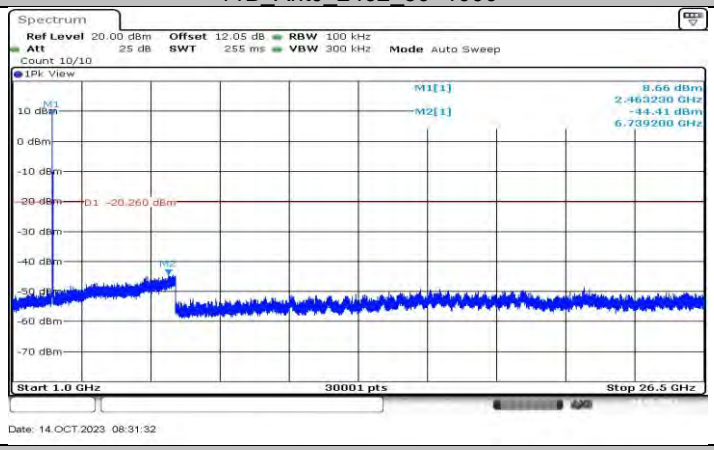
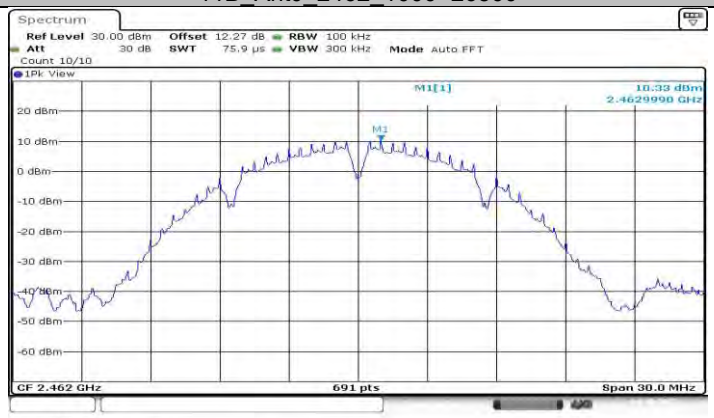


11B_Ant0_2462_1000~26500



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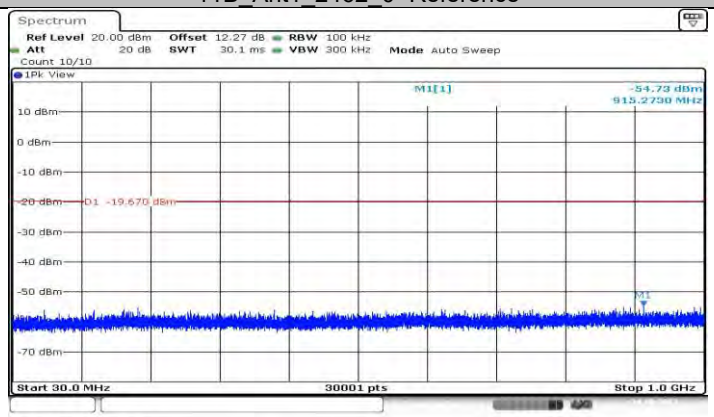

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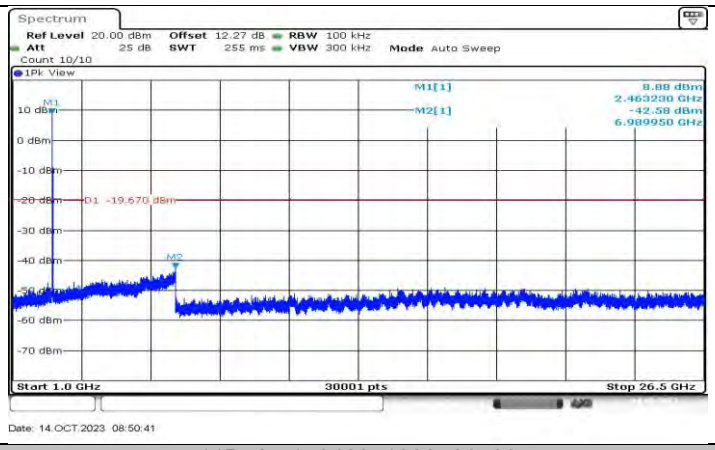
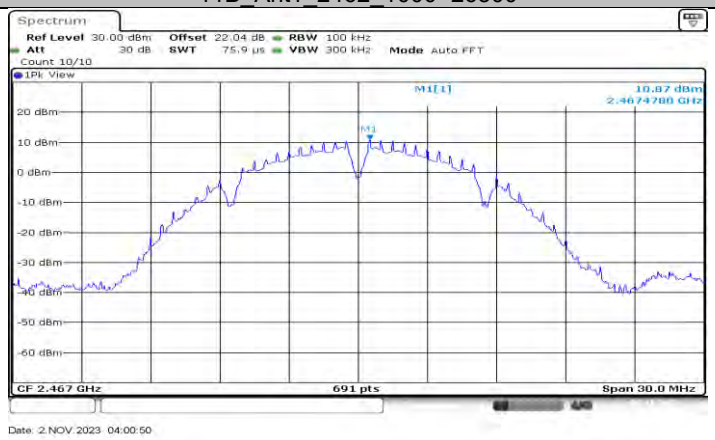
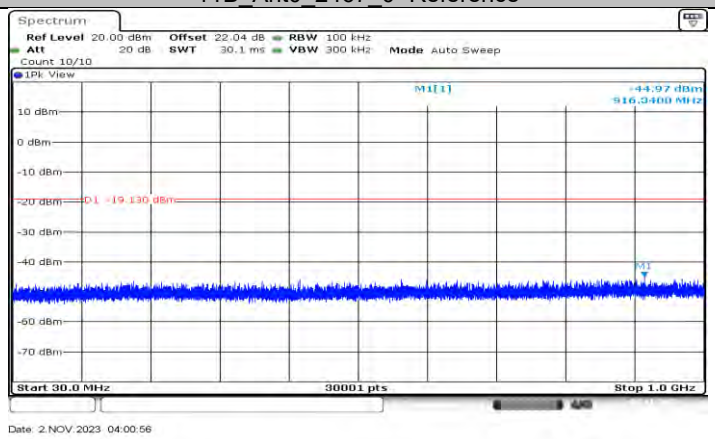


11B_Ant1_2462_1000~26500



11B_Ant0_2467_0~Reference



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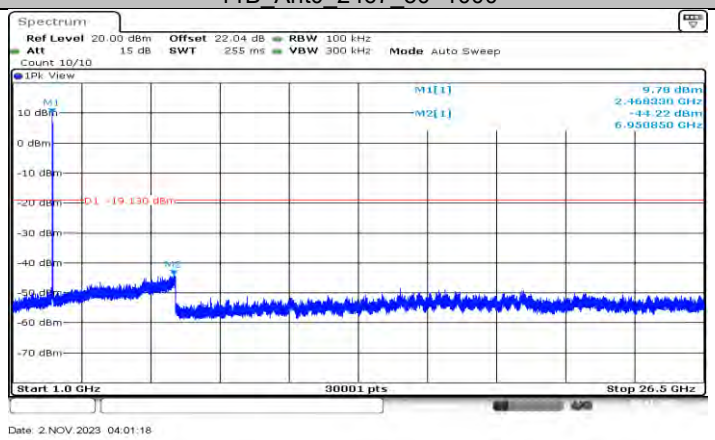
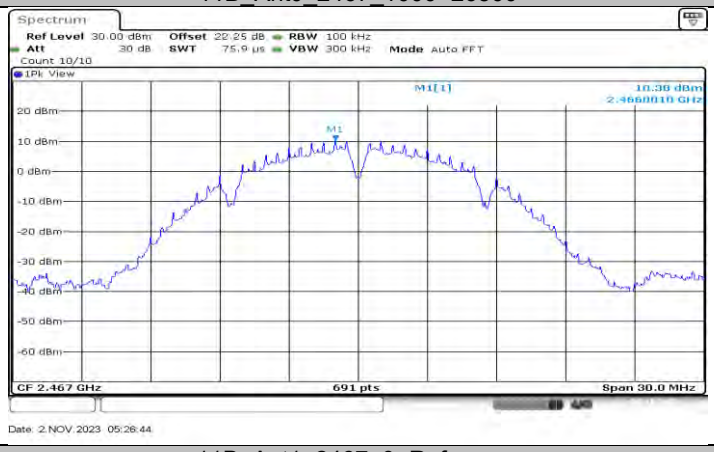
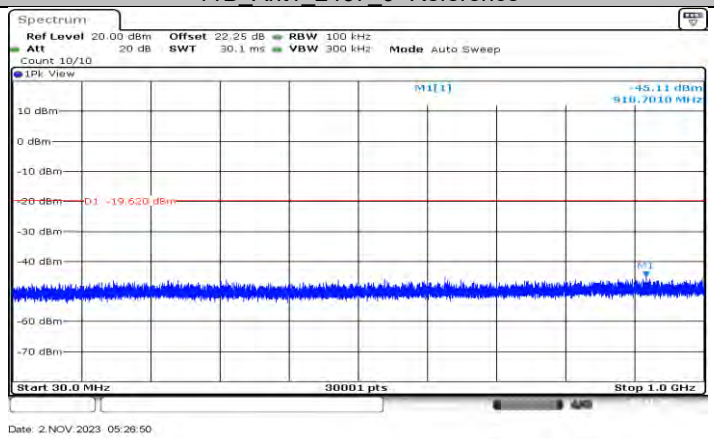


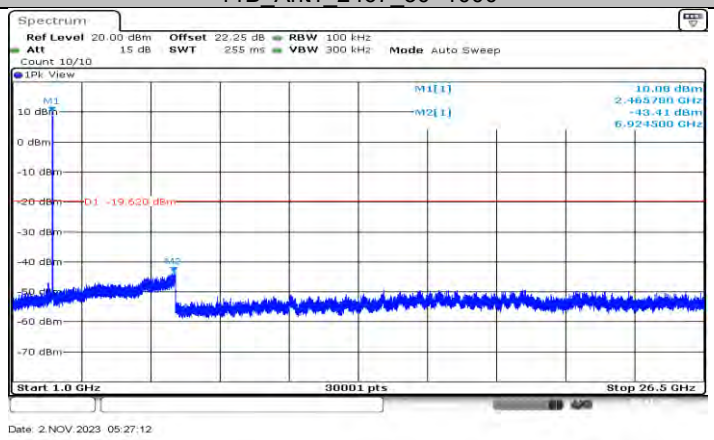
11B_Ant0_2467_1000~26500



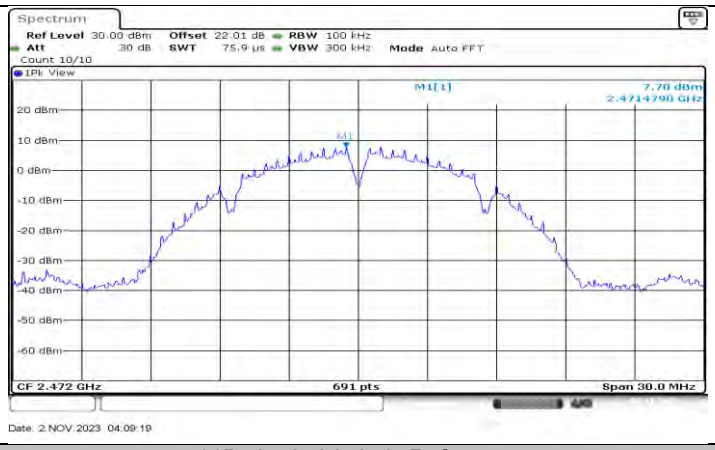
11B_Ant1_2467_0~Reference



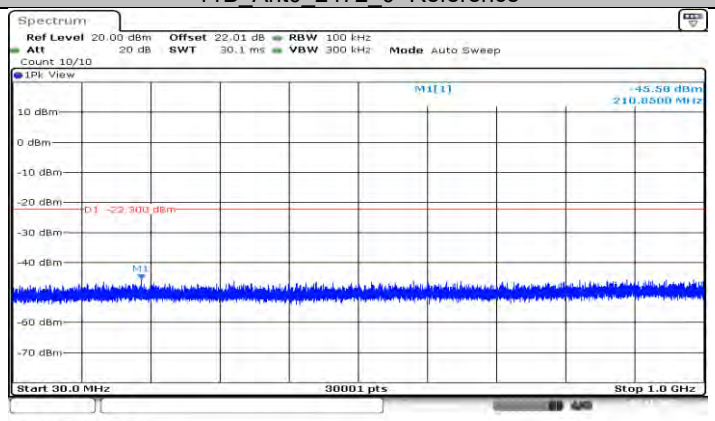
11B_Ant1_2467_30~1000



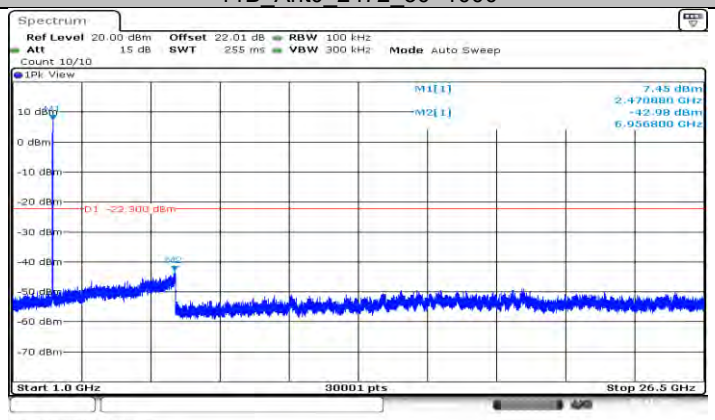
11B_Ant1_2467_1000~26500



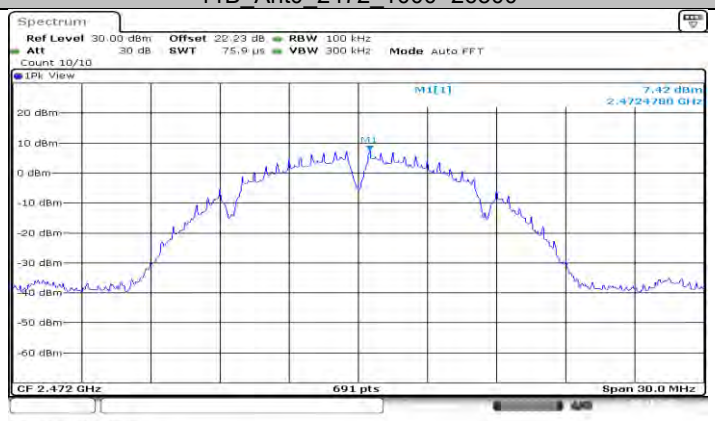
11B_Ant0_2472_0~Reference



11B_Ant0_2472_30~1000



11B_Ant0_2472_1000~26500



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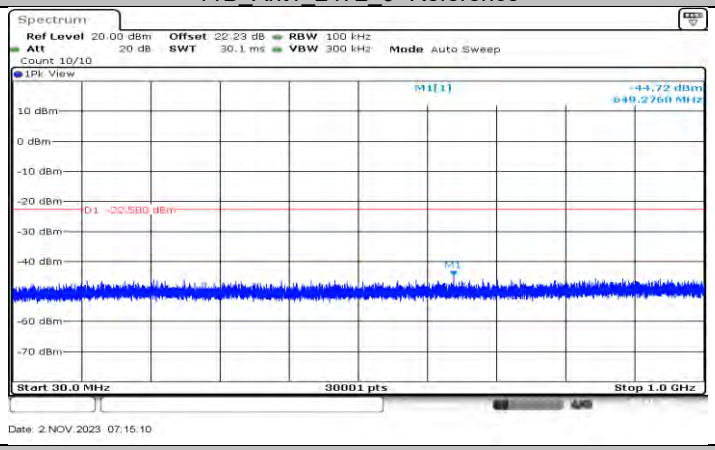
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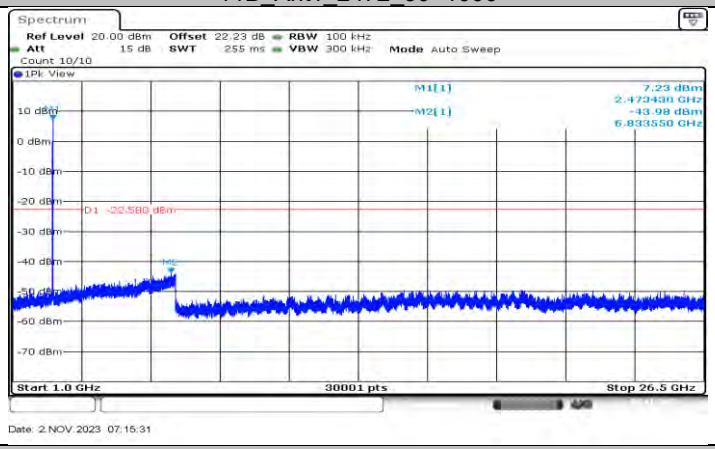
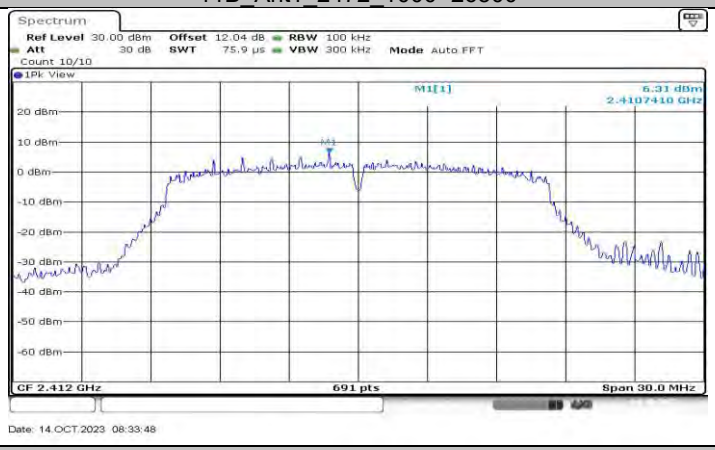
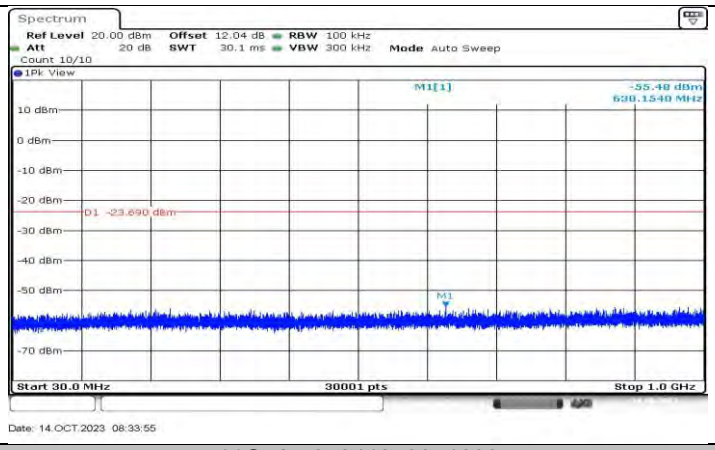

11B_Ant1_2472_1000~26500

11G_Ant0_2412_0~Reference



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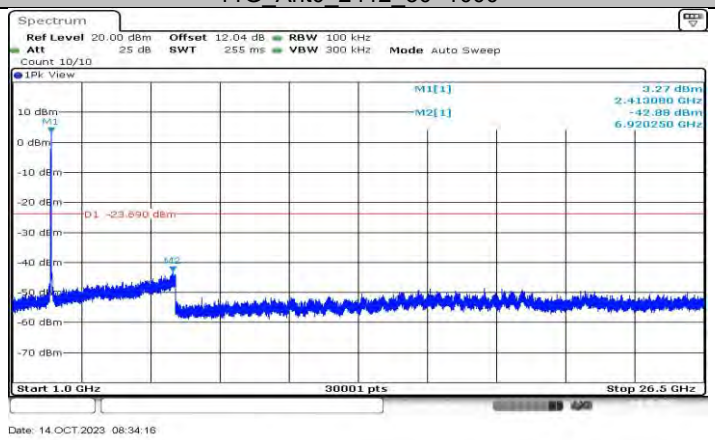
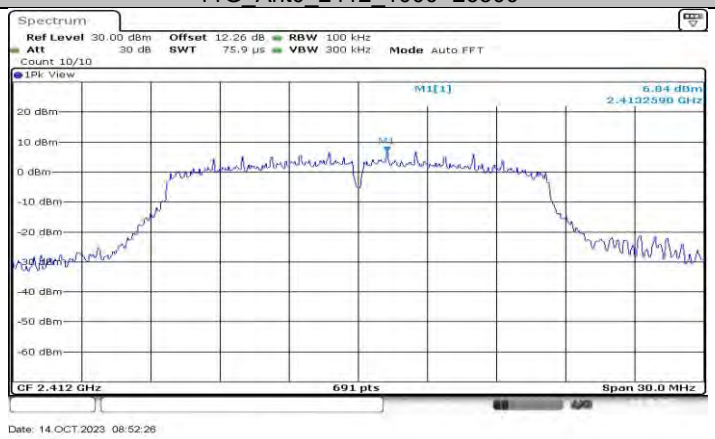


11G_Ant0_2412_1000~26500



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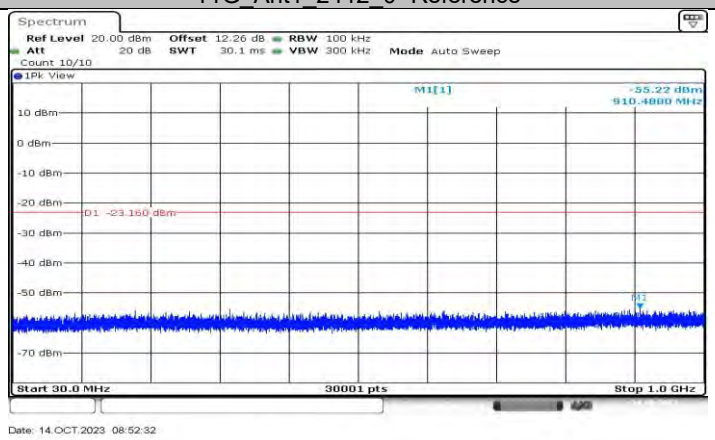

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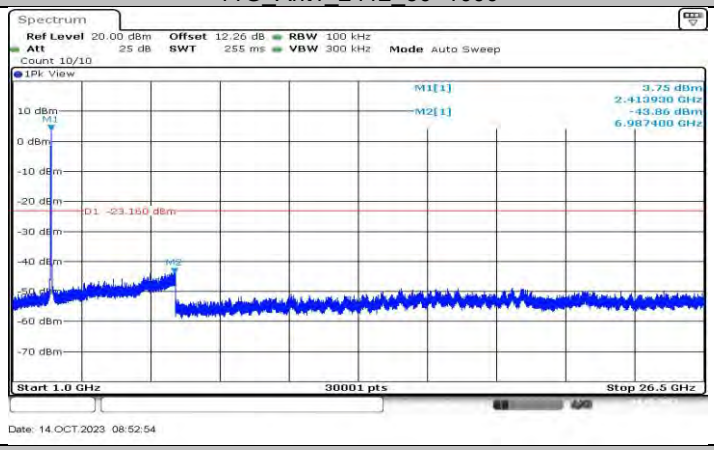

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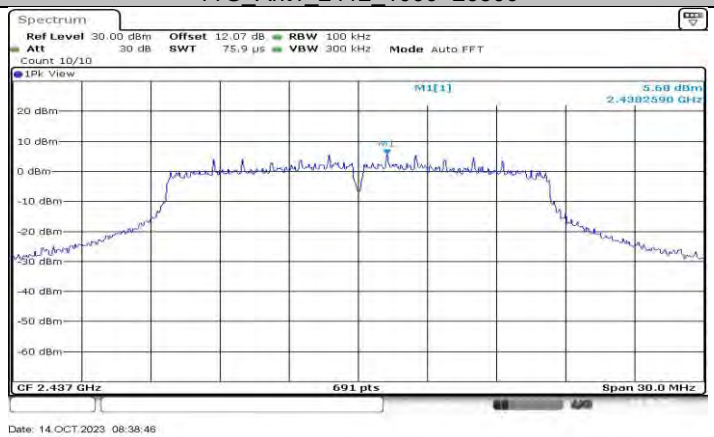

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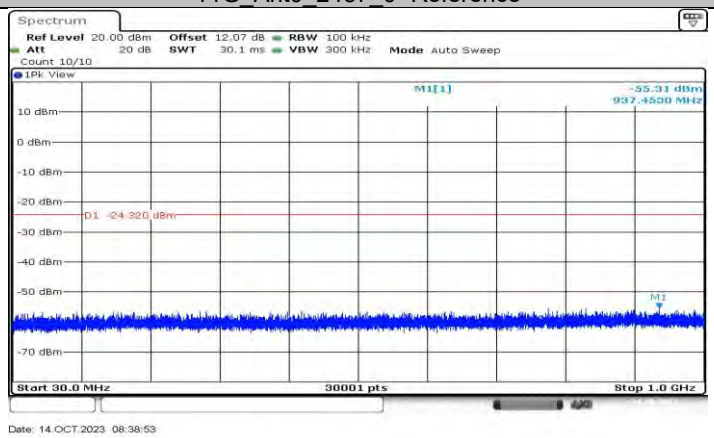

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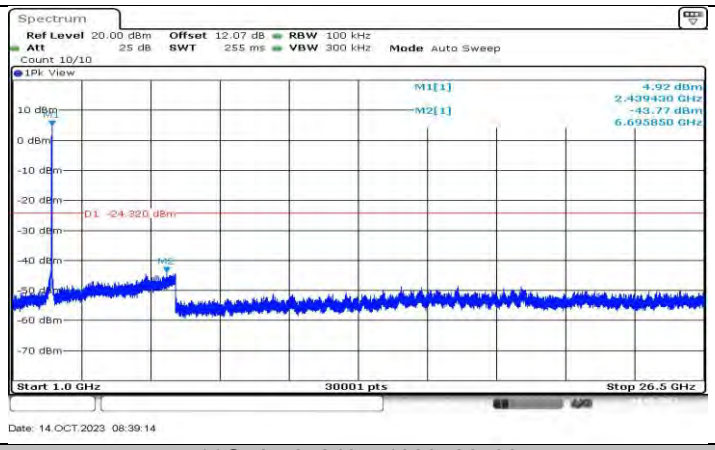

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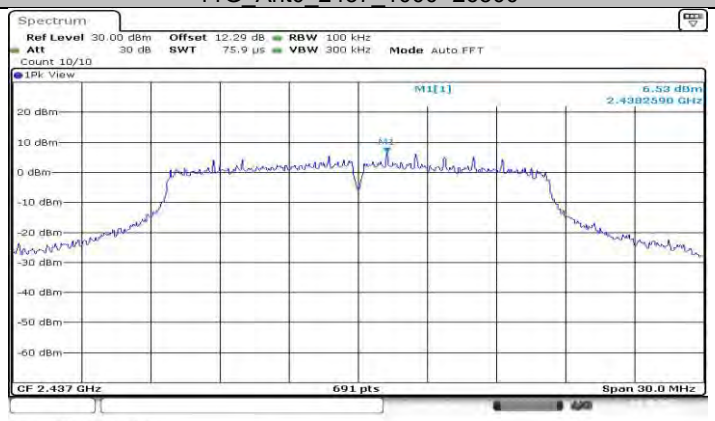

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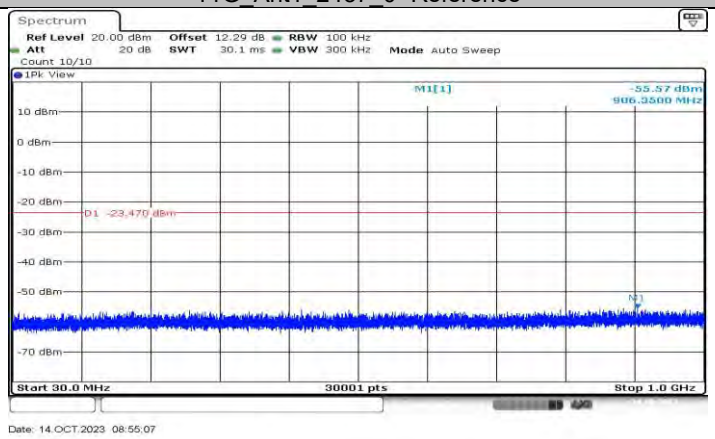

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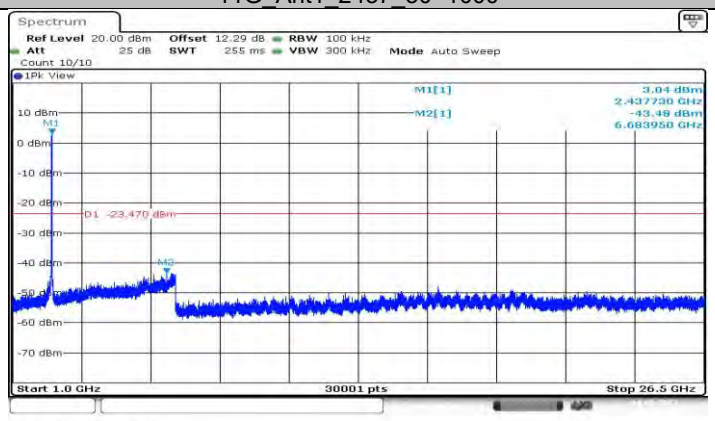

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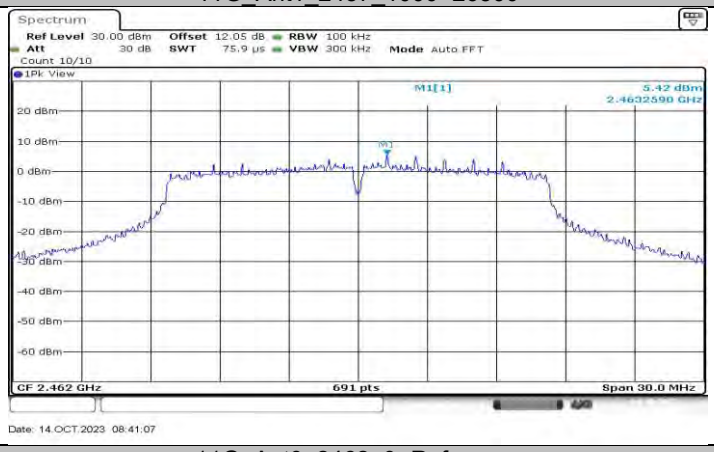

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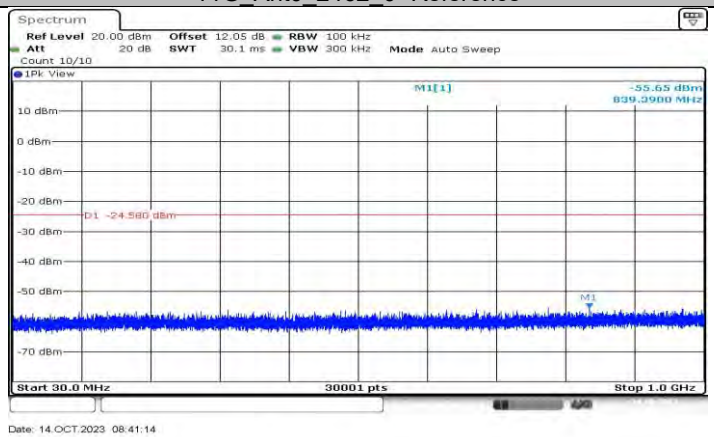

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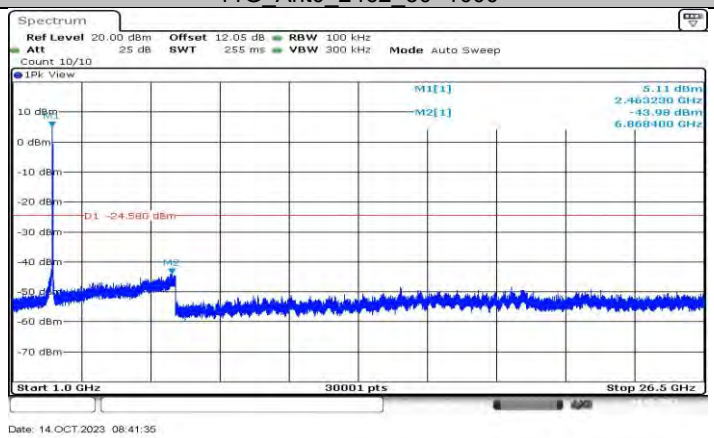

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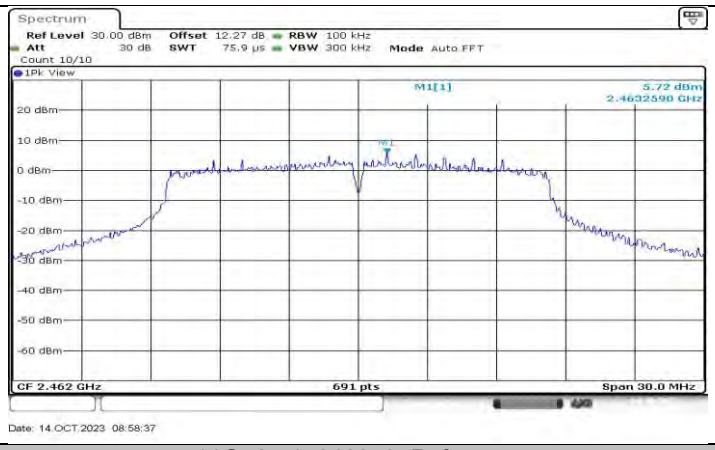

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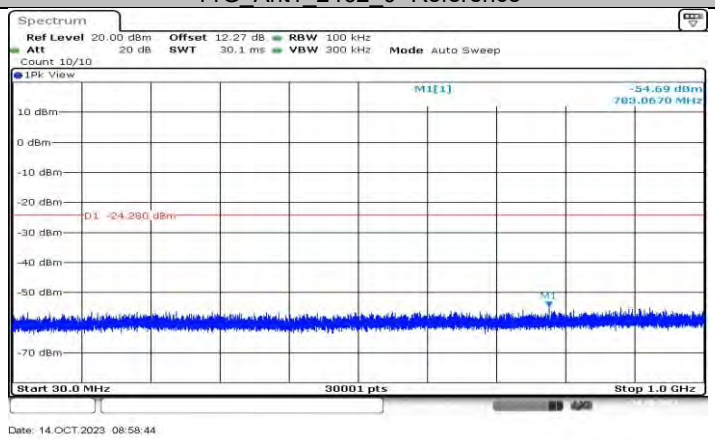

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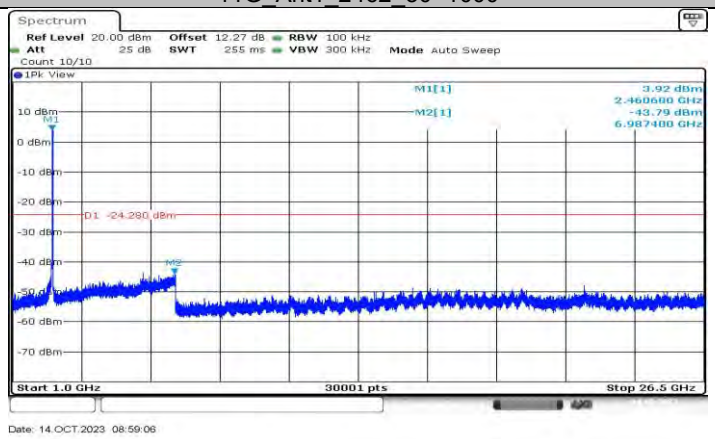

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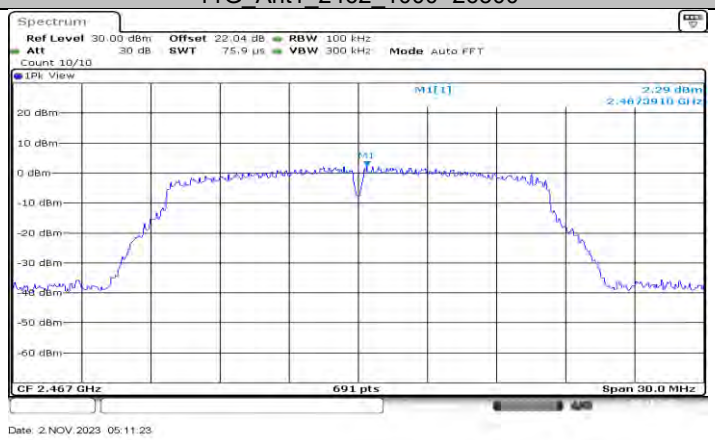

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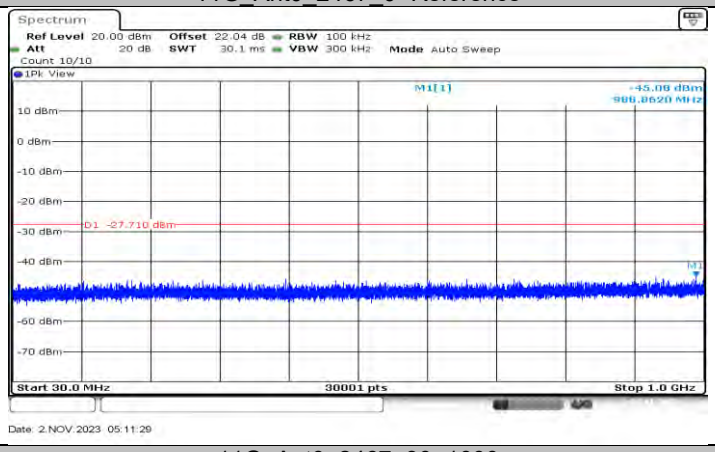
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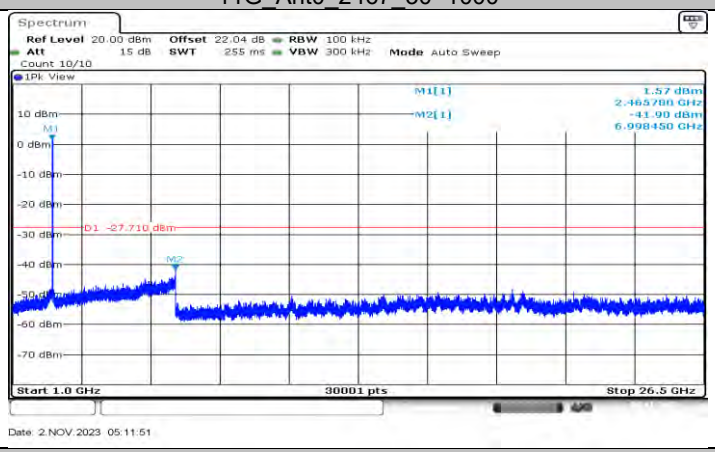
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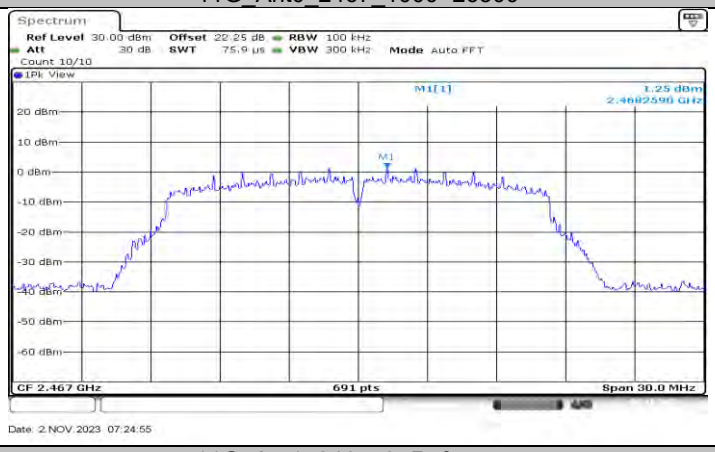
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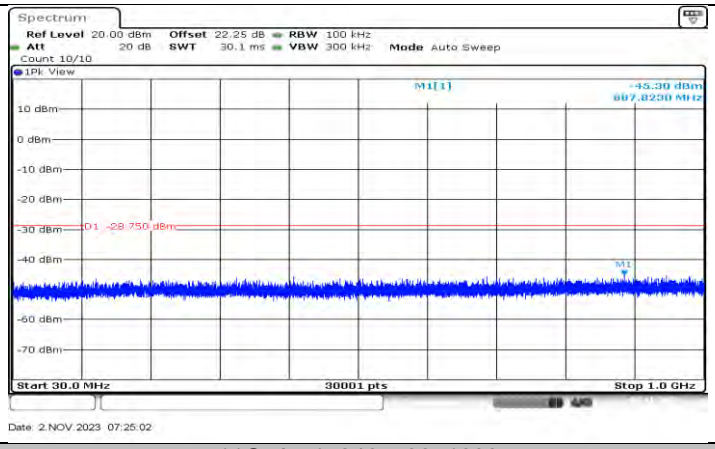

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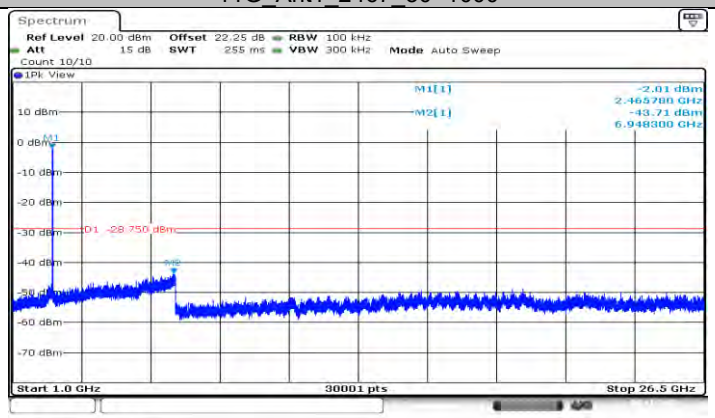

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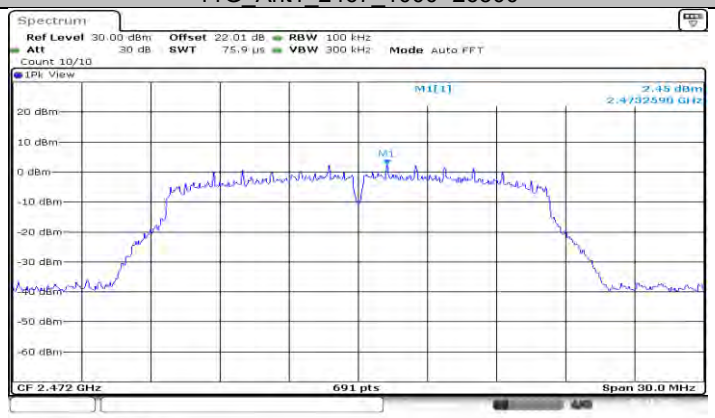

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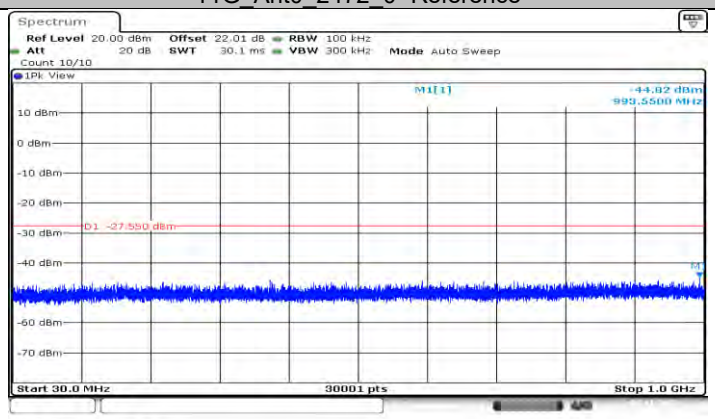

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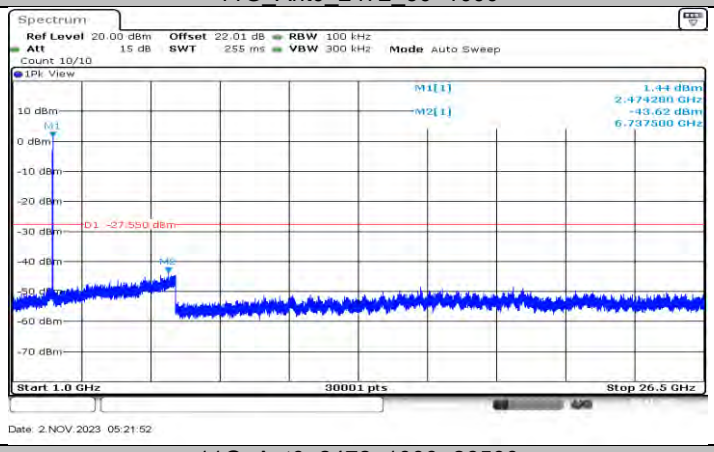

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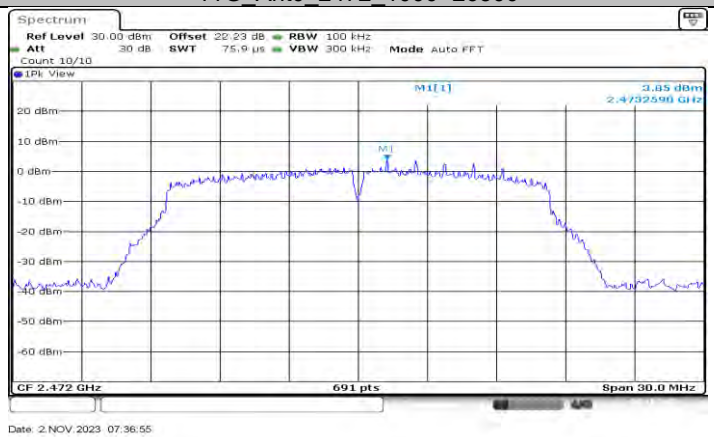

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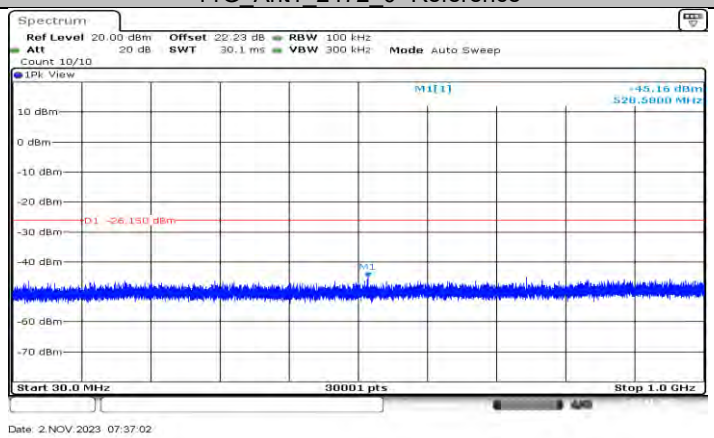

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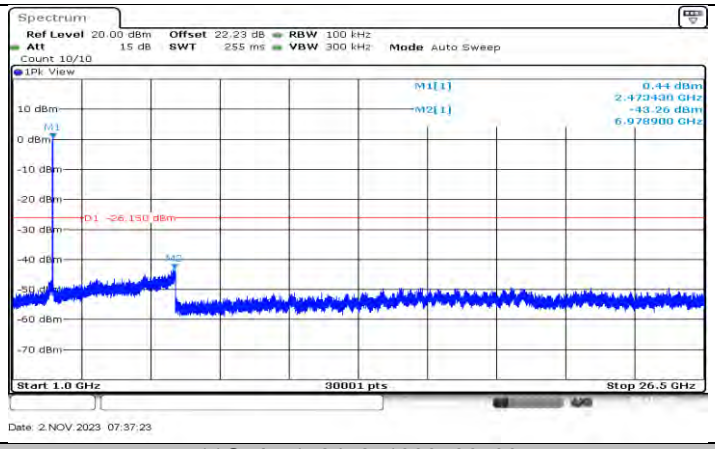

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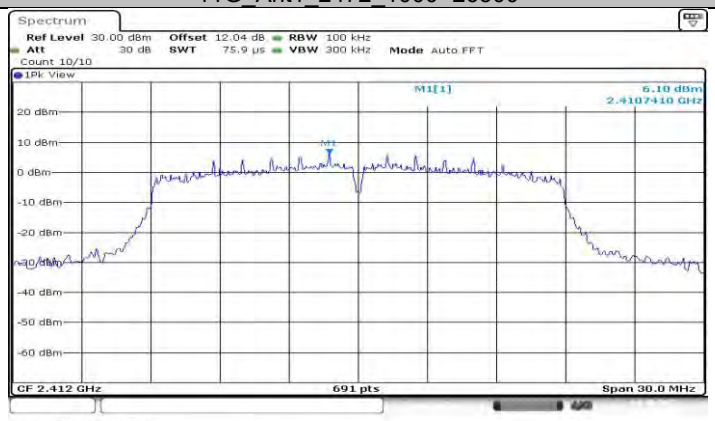

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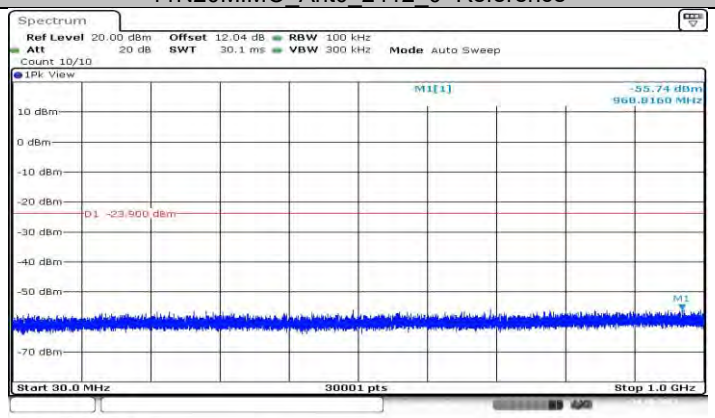

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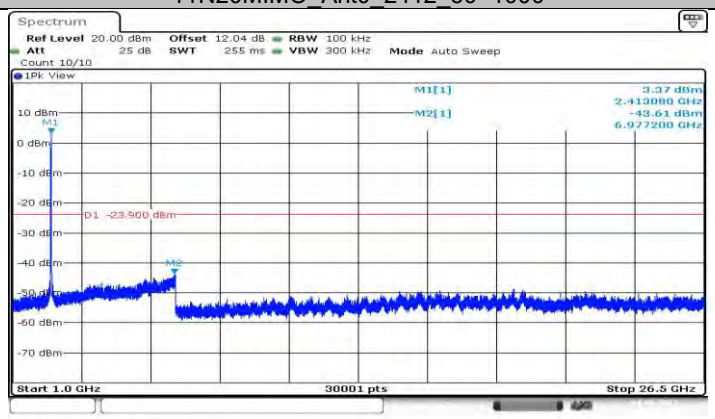

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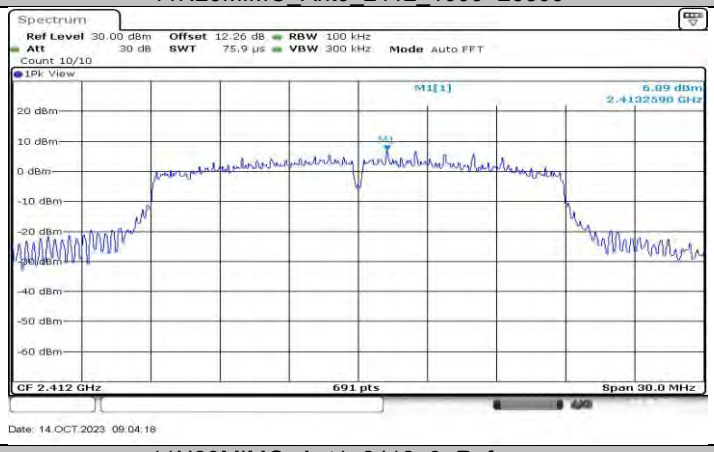

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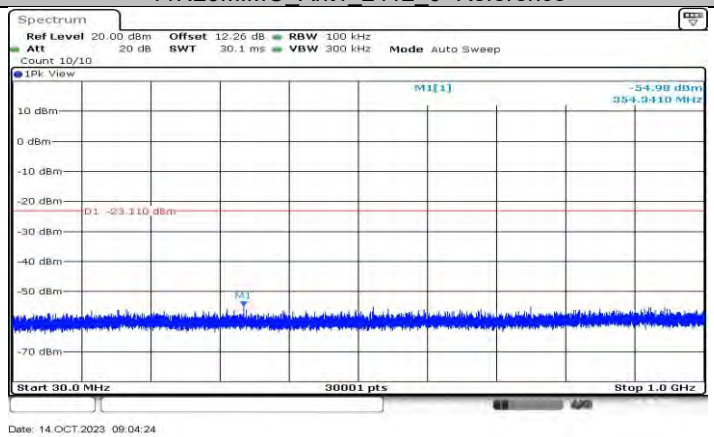

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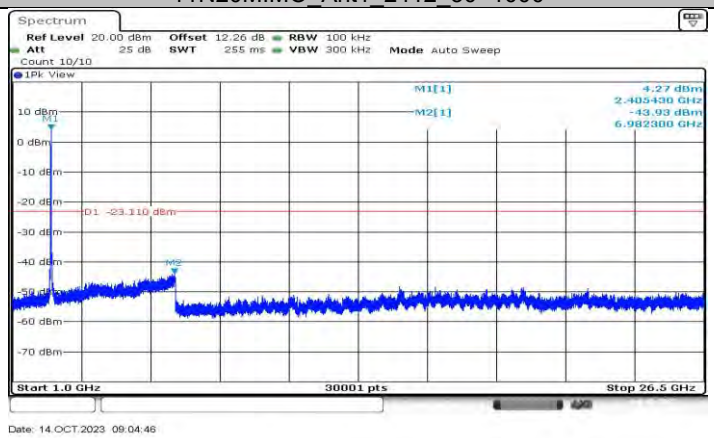

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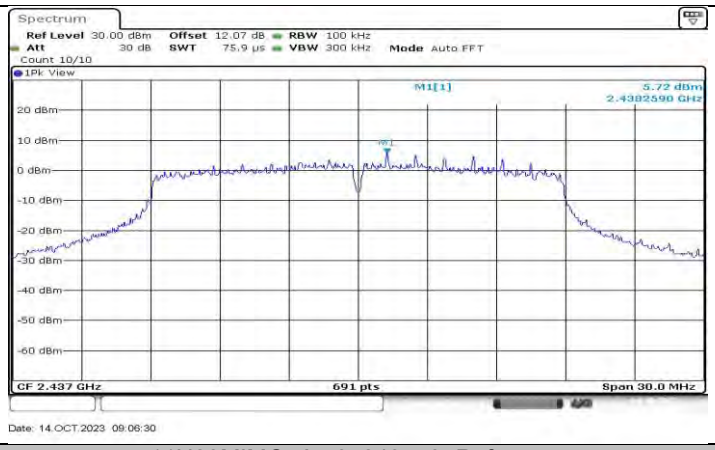

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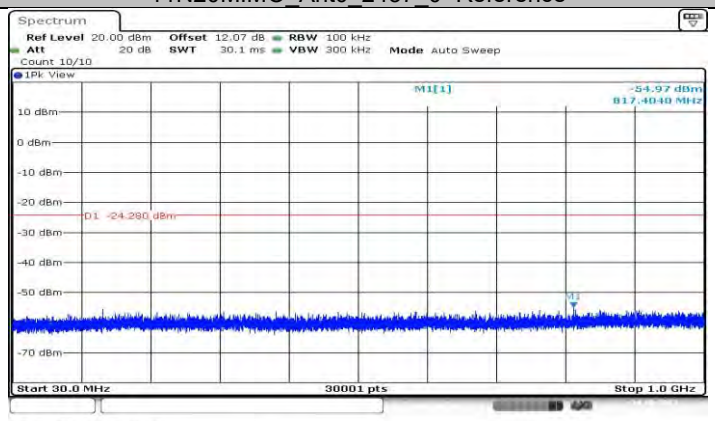

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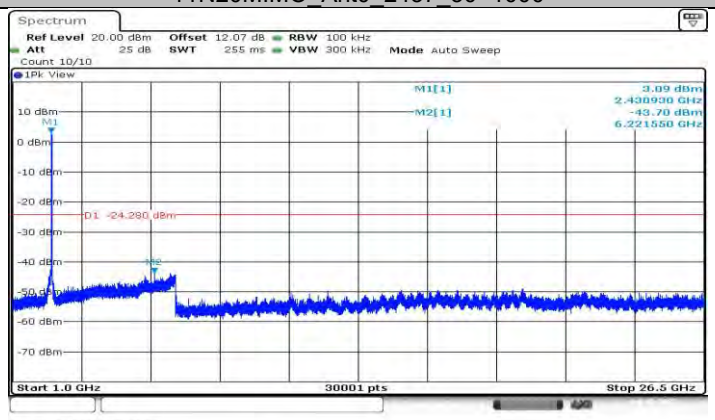

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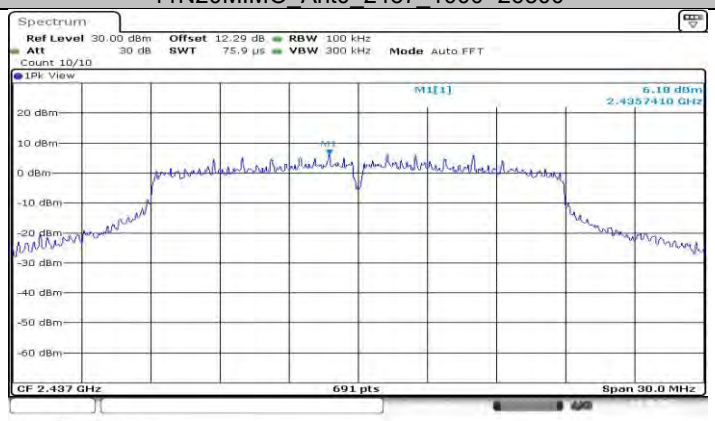

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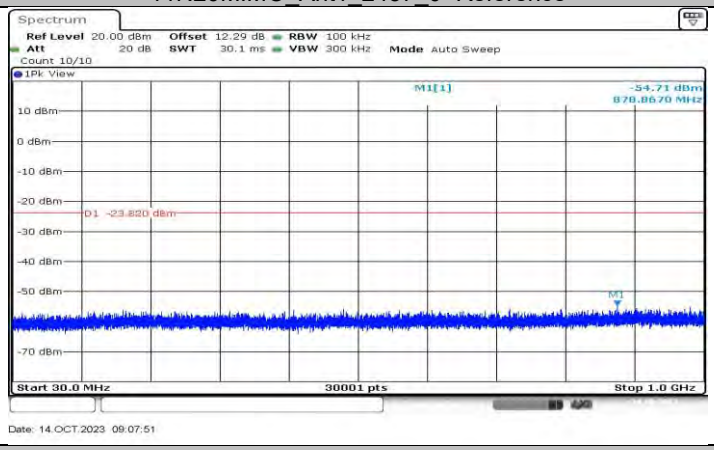

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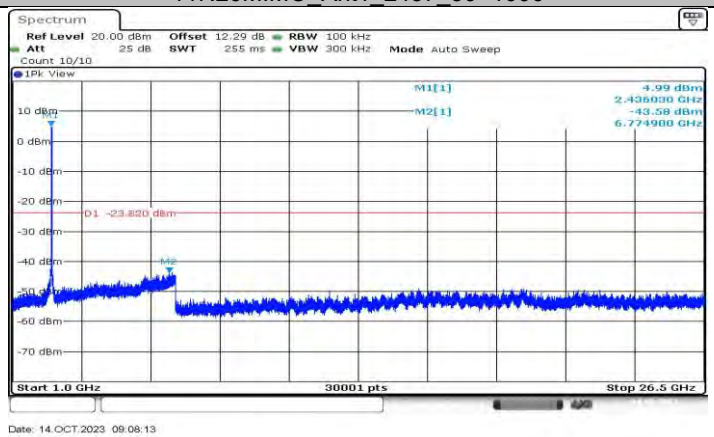

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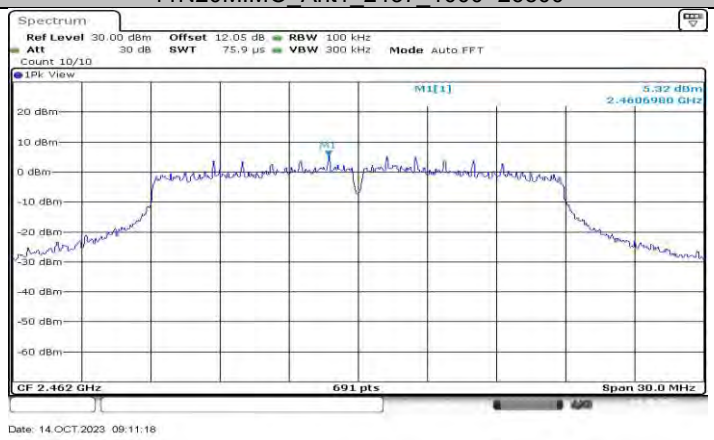

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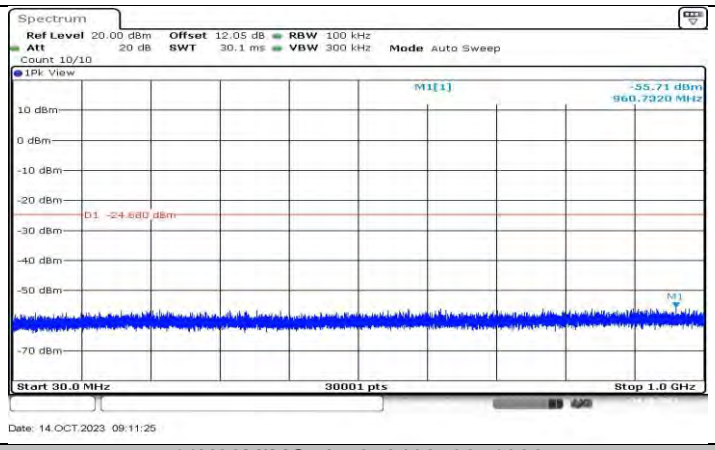

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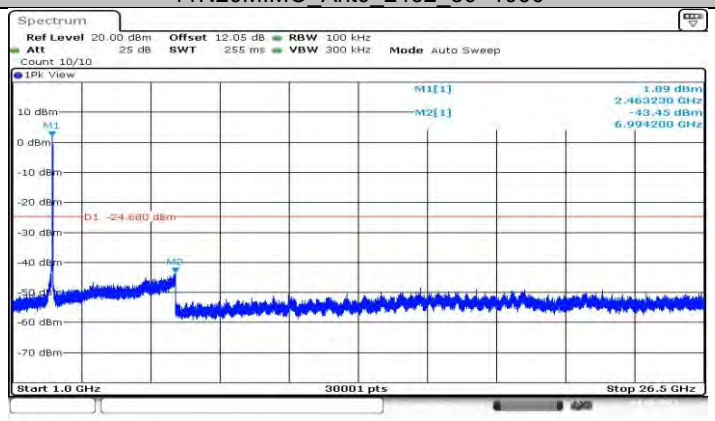

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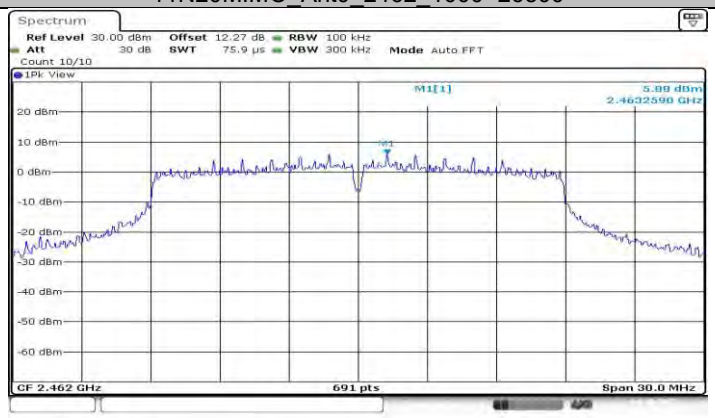

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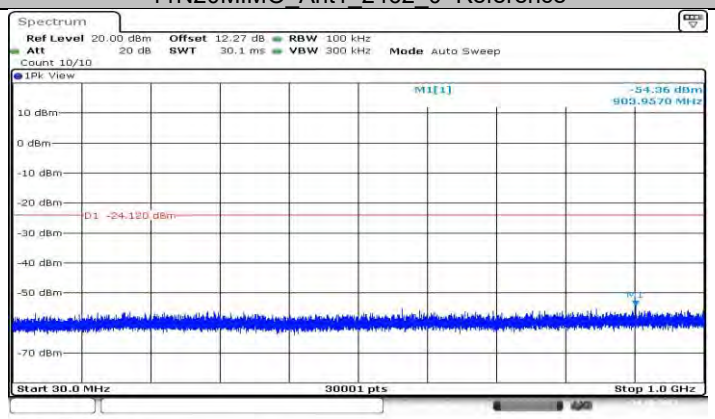

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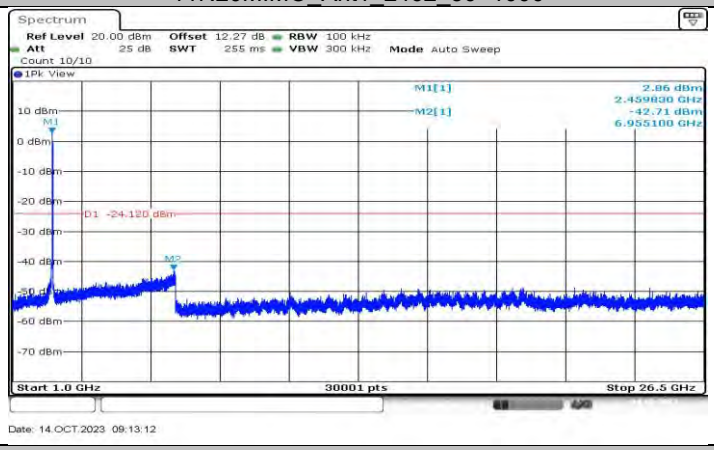

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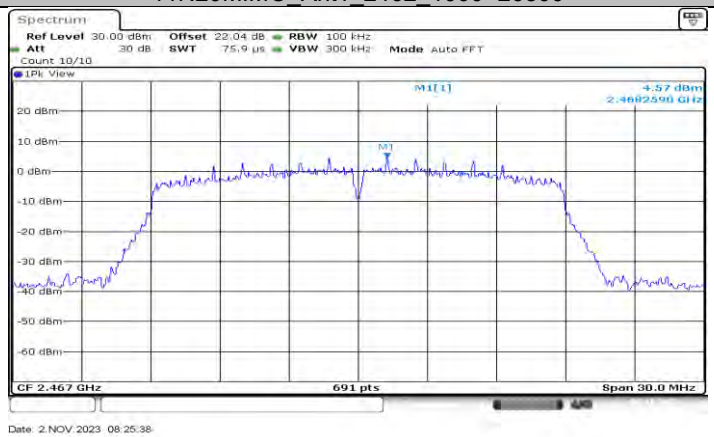

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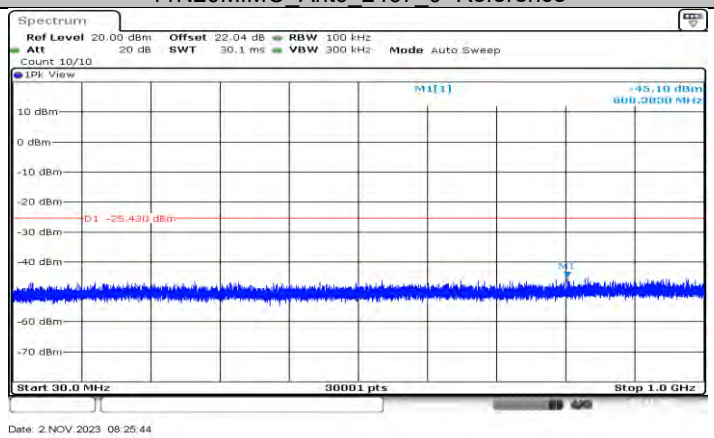

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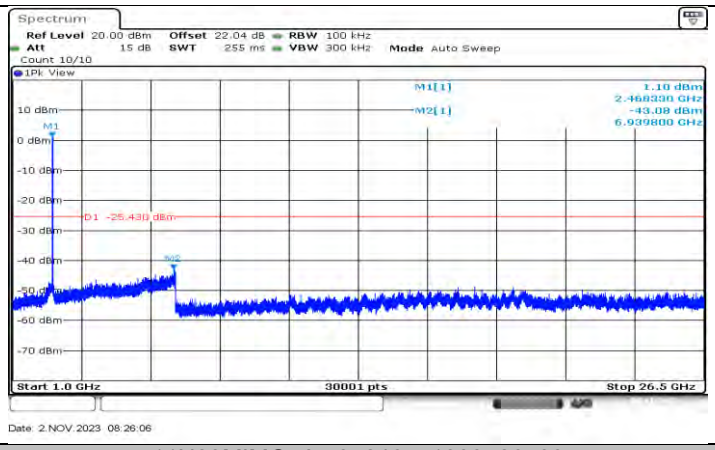

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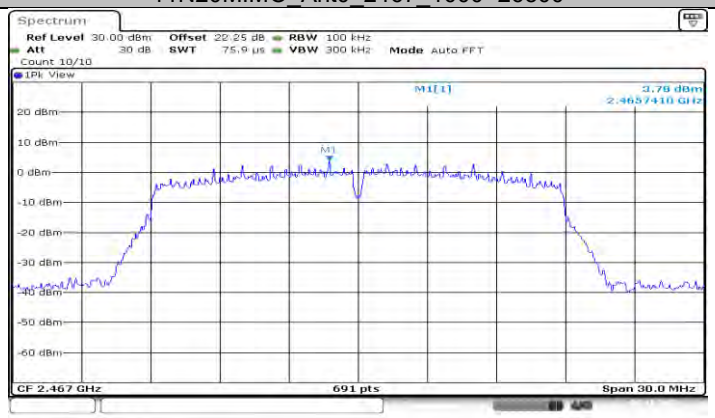

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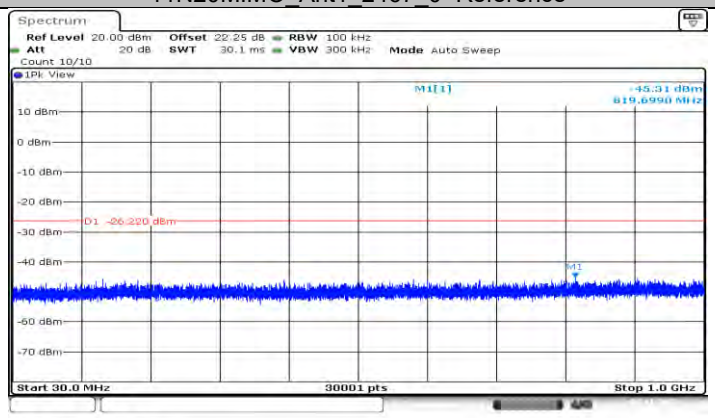

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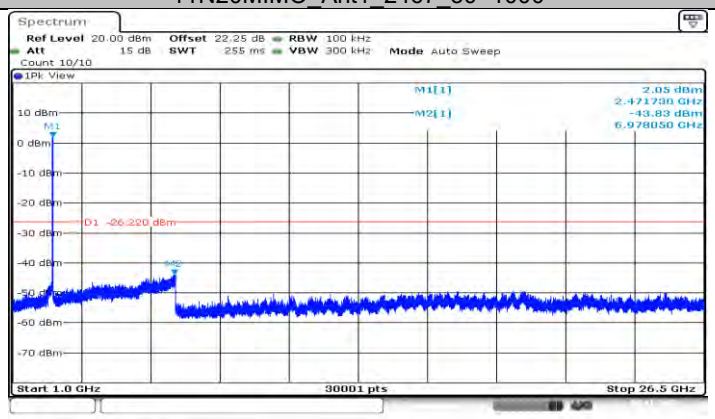

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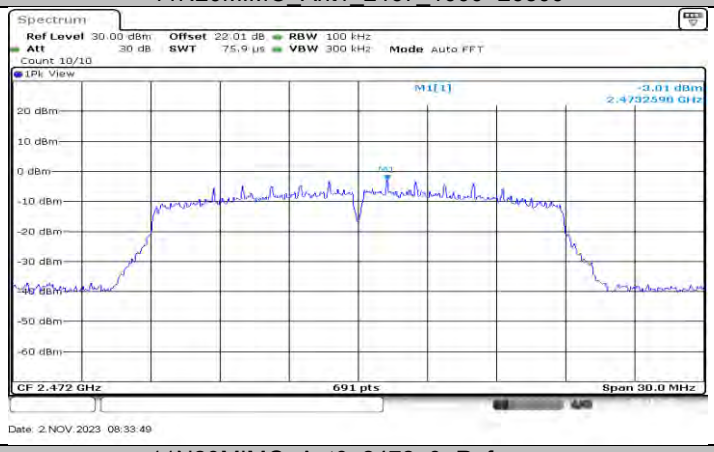

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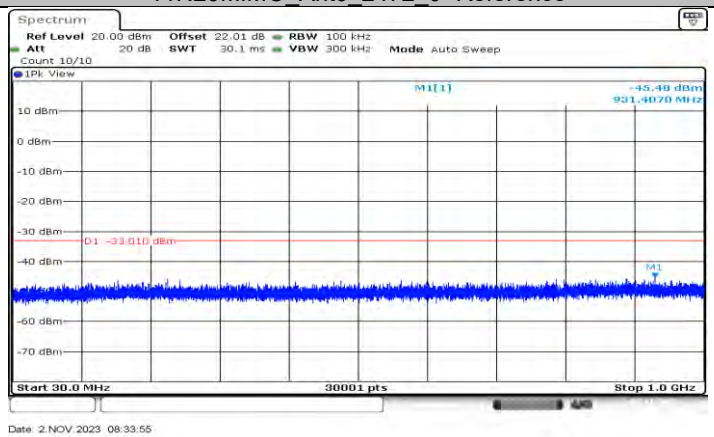

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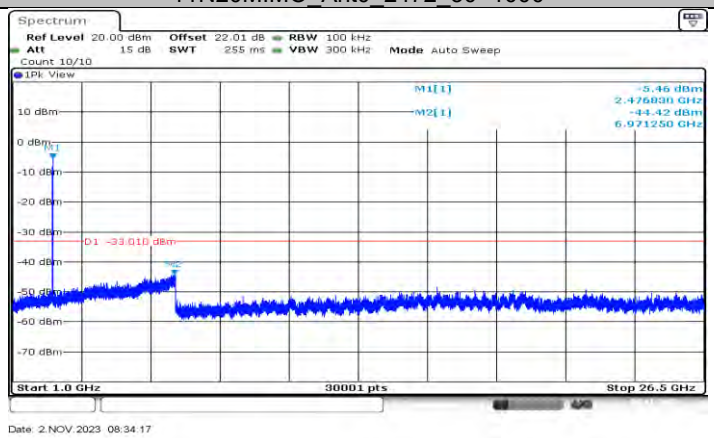

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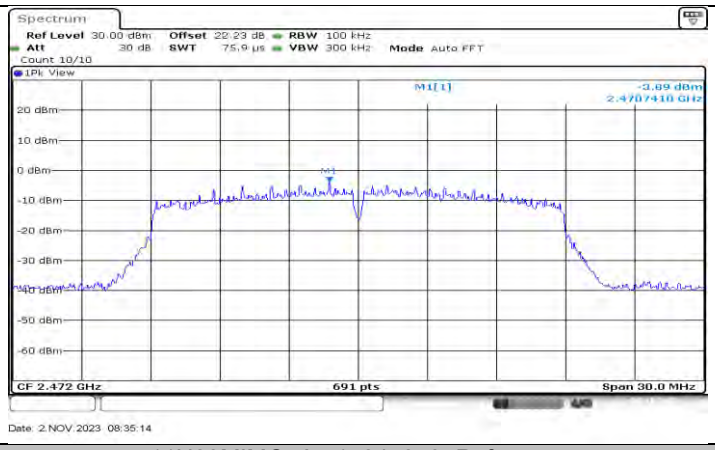
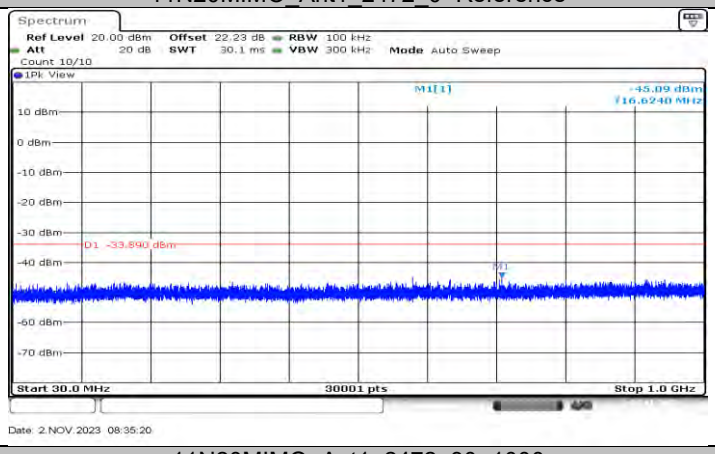
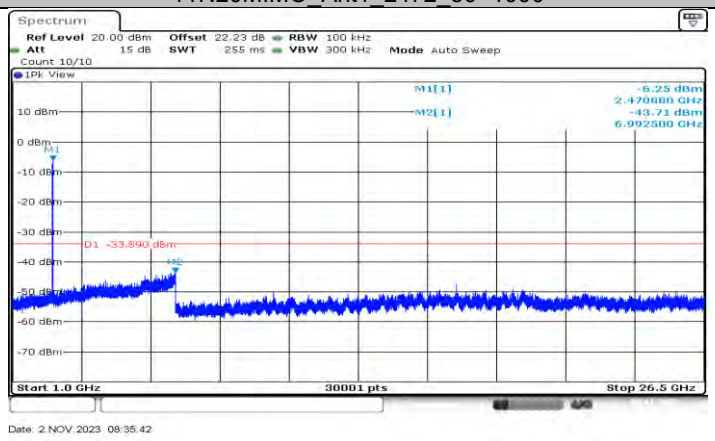


11N20MIMO_Ant1_2472_0~Reference



11N20MIMO_Ant1_2472_30~1000



11N20MIMO_Ant1_2472_1000~26500

11.12. APPENDIX F2: CONDUCTED SPURIOUS EMISSION OF OFDMA

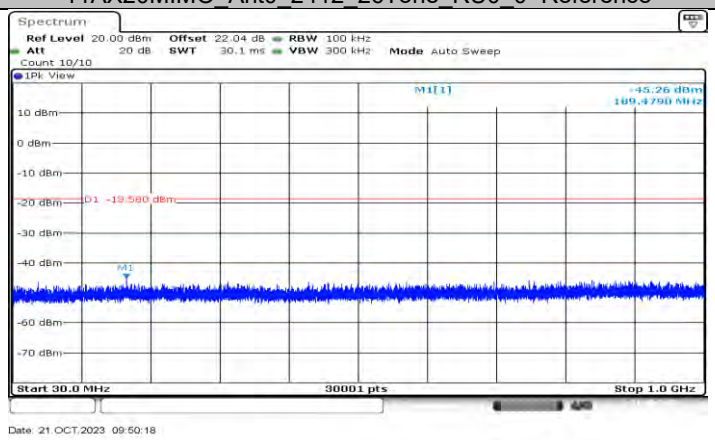
11.12.1. Test Result

Test Mode	Antenna	Channel	Ru Size	Ru Index	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant0	2412	26Tone	RU0	Reference	11.42	---	PASS
				RU0	30~1000	-45.26	≤-18.58	PASS
				RU0	1000~26500	-33.01	≤-18.58	PASS
			106Tone	RU53	Reference	5.74	---	PASS
				RU53	30~1000	-45.70	≤-24.26	PASS
				RU53	1000~26500	-33.96	≤-24.26	PASS
			242Tone	RU61	Reference	4.96	---	PASS
				RU61	30~1000	-44.94	≤-25.04	PASS
				RU61	1000~26500	-33.71	≤-25.04	PASS
	Ant1	2412	26Tone	RU0	Reference	12.57	---	PASS
				RU0	30~1000	-45.09	≤-17.43	PASS
				RU0	1000~26500	-33.87	≤-17.43	PASS
			106Tone	RU53	Reference	7.03	---	PASS
				RU53	30~1000	-45.52	≤-22.97	PASS
				RU53	1000~26500	-33.06	≤-22.97	PASS
			242Tone	RU61	Reference	6.45	---	PASS
				RU61	30~1000	-44.86	≤-23.55	PASS
				RU61	1000~26500	-33.41	≤-23.55	PASS
	Ant0	2437	52Tone	RU38	Reference	8.85	---	PASS
				RU38	30~1000	-44.41	≤-21.15	PASS
				RU38	1000~26500	-33.55	≤-21.15	PASS
			242Tone	RU61	Reference	4.69	---	PASS
				RU61	30~1000	-45.78	≤-25.31	PASS
				RU61	1000~26500	-34.18	≤-25.31	PASS
	Ant1	2437	52Tone	RU38	Reference	10.07	---	PASS
				RU38	30~1000	-45.04	≤-19.93	PASS
				RU38	1000~26500	-33.78	≤-19.93	PASS
			242Tone	RU61	Reference	6.20	---	PASS
				RU61	30~1000	-44.86	≤-23.8	PASS
				RU61	1000~26500	-32.83	≤-23.8	PASS
	Ant0	2462	26Tone	RU8	Reference	10.95	---	PASS
				RU8	30~1000	-45.05	≤-19.05	PASS
				RU8	1000~26500	-32.68	≤-19.05	PASS
			106Tone	RU54	Reference	4.93	---	PASS
				RU54	30~1000	-45.66	≤-25.07	PASS

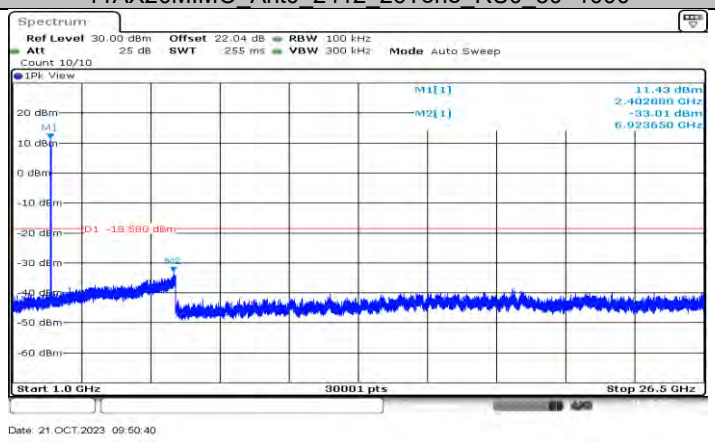
				RU54	1000~26500	-33.46	≤-25.07	PASS
			242Tone	RU61	Reference	4.53	---	PASS
				RU61	30~1000	-45.07	≤-25.47	PASS
				RU61	1000~26500	-33.36	≤-25.47	PASS
	Ant1	2462	26Tone	RU8	Reference	12.25	---	PASS
				RU8	30~1000	-44.26	≤-17.75	PASS
				RU8	1000~26500	-33.53	≤-17.75	PASS
			106Tone	RU54	Reference	6.78	---	PASS
				RU54	30~1000	-44.61	≤-23.22	PASS
				RU54	1000~26500	-33.33	≤-23.22	PASS
			242Tone	RU61	Reference	5.79	---	PASS
				RU61	30~1000	-44.39	≤-24.21	PASS
				RU61	1000~26500	-33.67	≤-24.21	PASS
	Ant0	2467	26Tone	RU8	Reference	11.13	---	PASS
				RU8	30~1000	-45.31	≤-18.87	PASS
				RU8	1000~26500	-43.36	≤-18.87	PASS
			242Tone	RU61	Reference	4.52	---	PASS
				RU61	30~1000	-45.31	≤-25.48	PASS
				RU61	1000~26500	-43.26	≤-25.48	PASS
	Ant1	2467	26Tone	RU8	Reference	10.10	---	PASS
				RU8	30~1000	-44.63	≤-19.9	PASS
				RU8	1000~26500	-44.25	≤-19.9	PASS
			242Tone	RU61	Reference	3.71	---	PASS
				RU61	30~1000	-45.48	≤-26.29	PASS
				RU61	1000~26500	-43.69	≤-26.29	PASS
	Ant0	2472	26Tone	RU8	Reference	-2.10	---	PASS
				RU8	30~1000	-45.22	≤-32.1	PASS
				RU8	1000~26500	-43.59	≤-32.1	PASS
			242Tone	RU61	Reference	1.74	---	PASS
				RU61	30~1000	-45.51	≤-28.26	PASS
				RU61	1000~26500	-42.91	≤-28.26	PASS
	Ant1	2472	26Tone	RU8	Reference	-2.96	---	PASS
				RU8	30~1000	-45.33	≤-32.96	PASS
				RU8	1000~26500	-43.48	≤-32.96	PASS
			242Tone	RU61	Reference	0.68	---	PASS
				RU61	30~1000	-44.92	≤-29.32	PASS
				RU61	1000~26500	-43.23	≤-29.32	PASS

11.12.2. Test Graphs

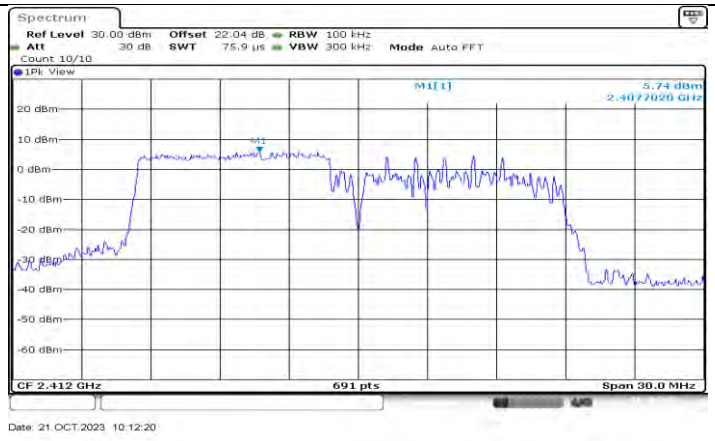
11AX20MIMO_Ant0_2412_26Tone_RU0_0~Reference



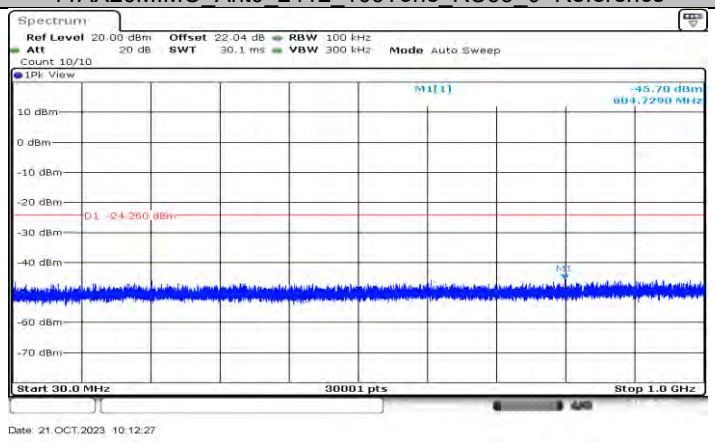
11AX20MIMO_Ant0_2412_26Tone_RU0_30~1000



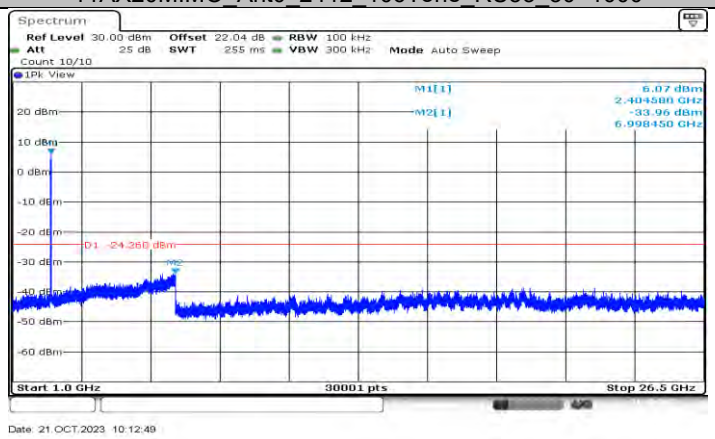
11AX20MIMO_Ant0_2412_26Tone_RU0_1000~26500



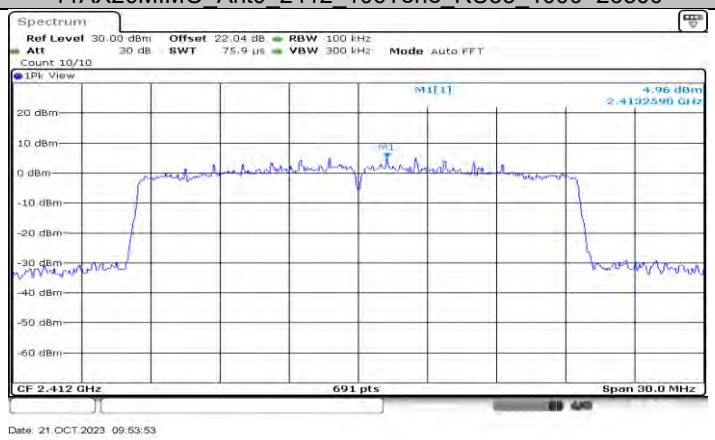
11AX20MIMO_Ant0_2412_106Tone_RU53_0~Reference



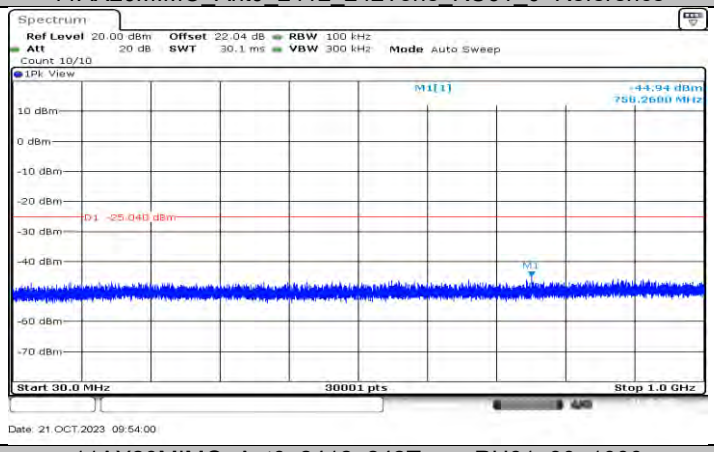
11AX20MIMO_Ant0_2412_106Tone_RU53_30~1000



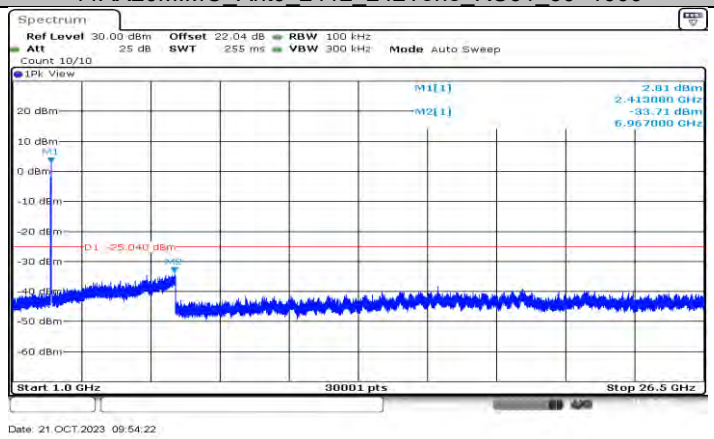
11AX20MIMO_Ant0_2412_106Tone_RU53_1000~26500



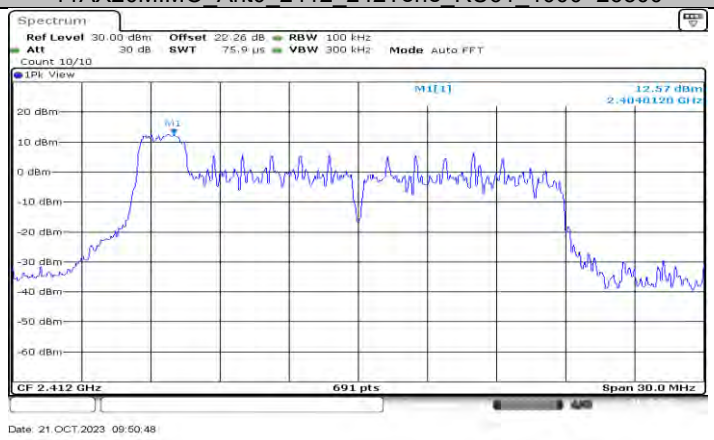
11AX20MIMO_Ant0_2412_242Tone_RU61_0~Reference



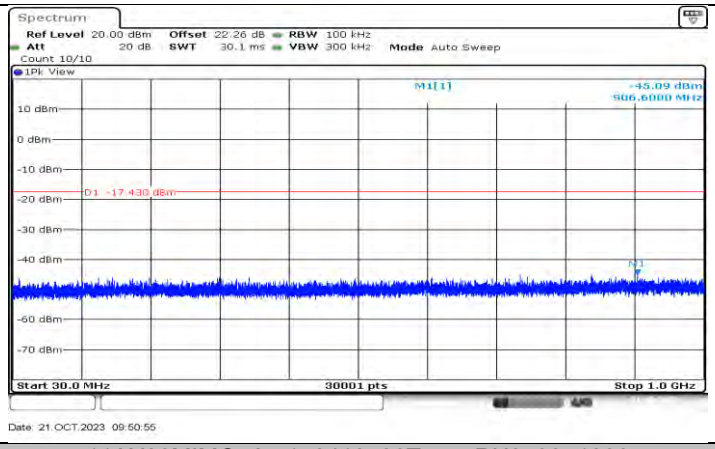
11AX20MIMO_Ant0_2412_242Tone_RU61_30~1000



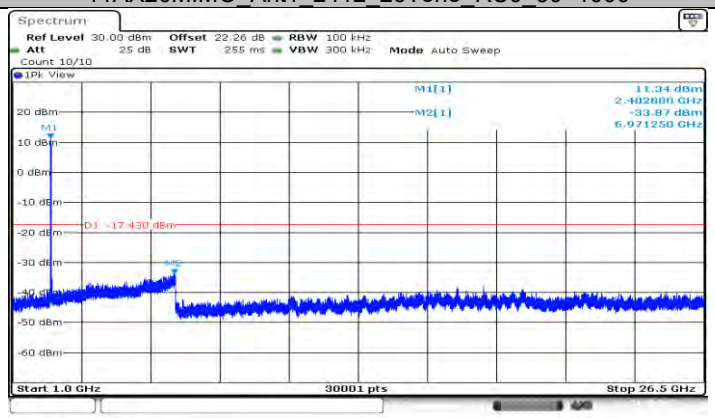
11AX20MIMO_Ant0_2412_242Tone_RU61_1000~26500



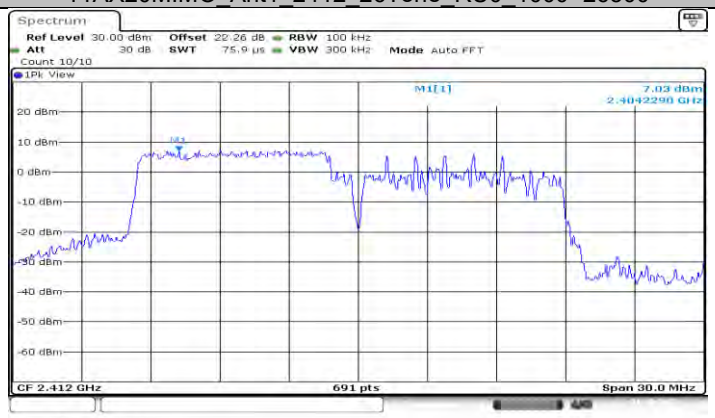
11AX20MIMO_Ant1_2412_26Tone_RU0_0~Reference



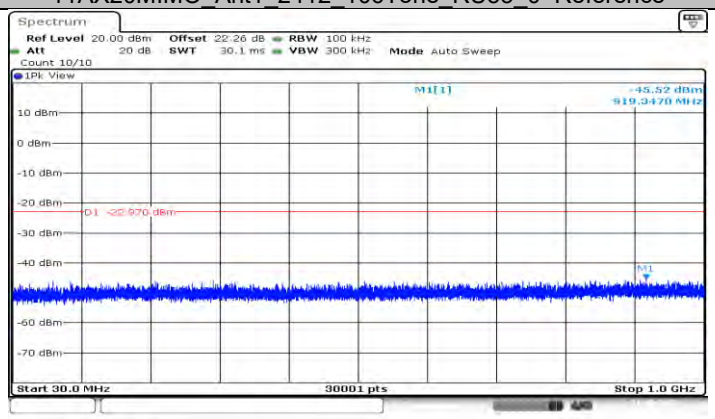
11AX20MIMO_Ant1_2412_26Tone_RU0_30~1000



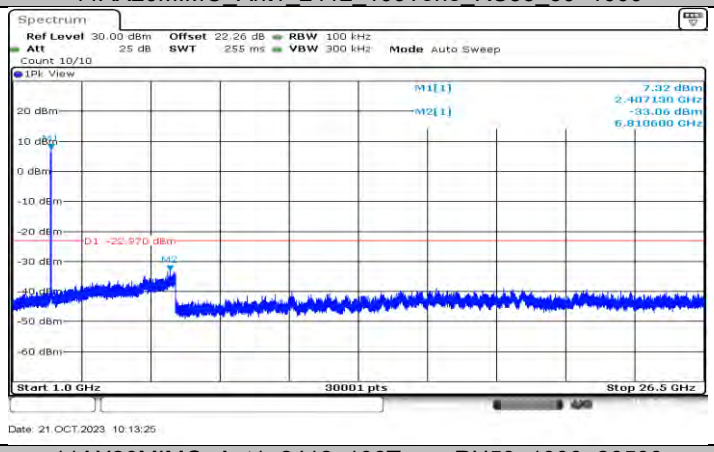
11AX20MIMO_Ant1_2412_26Tone_RU0_1000~26500



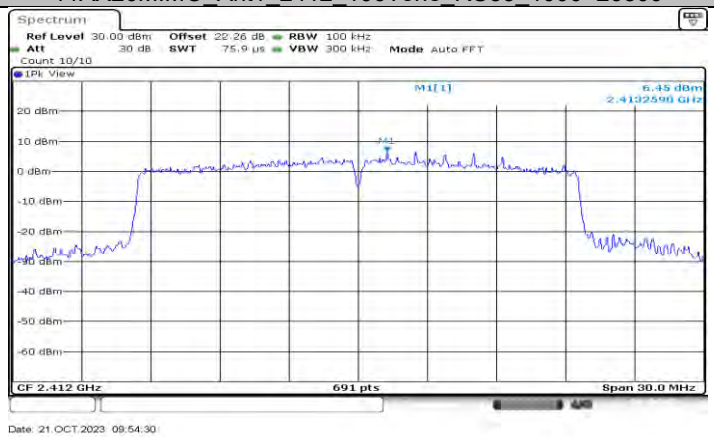
11AX20MIMO_Ant1_2412_106Tone_RU53_0~Reference



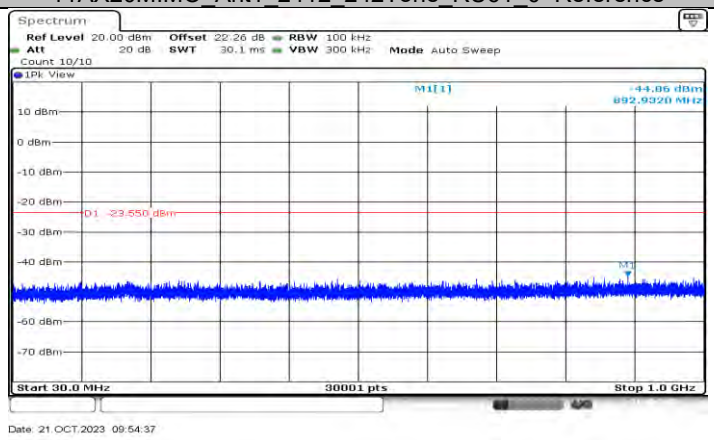
11AX20MIMO_Ant1_2412_106Tone_RU53_30~1000



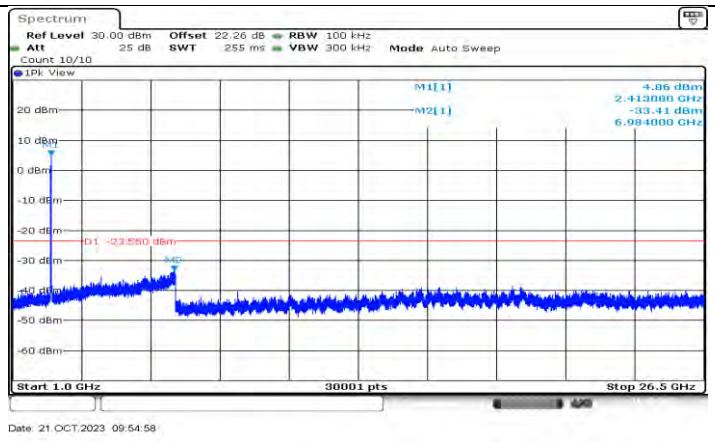
11AX20MIMO_Ant1_2412_106Tone_RU53_1000~26500



11AX20MIMO_Ant1_2412_242Tone_RU61_0~Reference

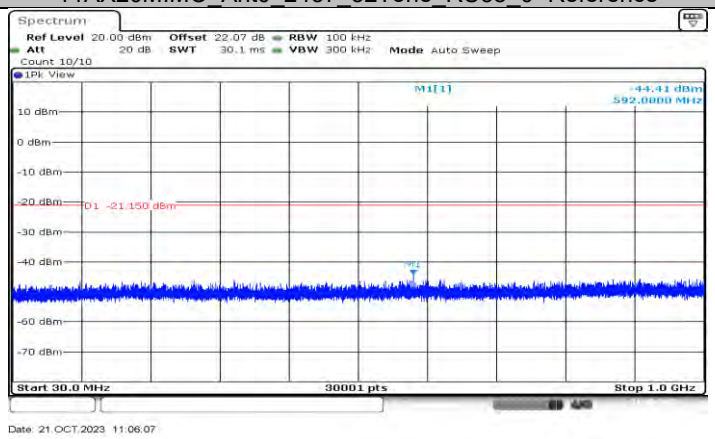


11AX20MIMO_Ant1_2412_242Tone_RU61_30~1000

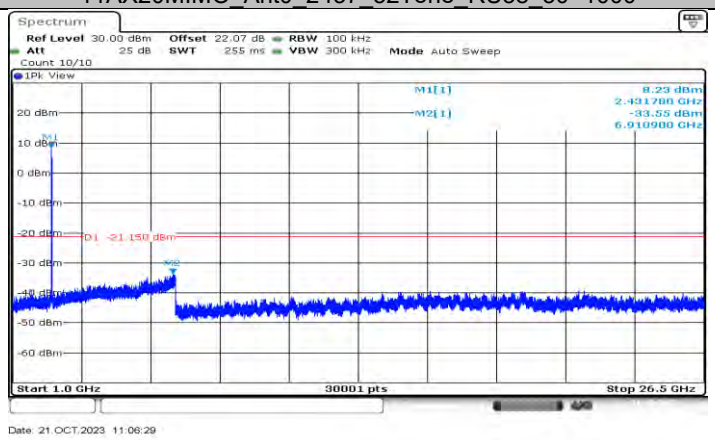


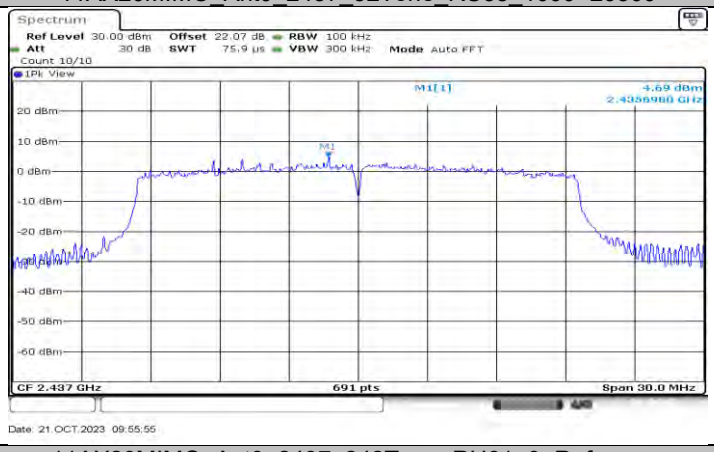
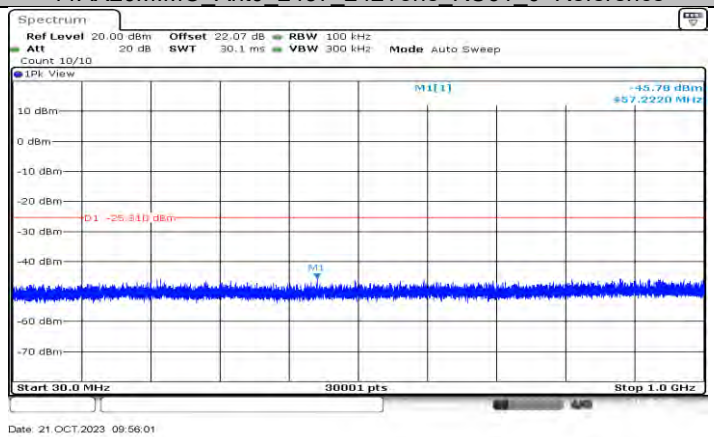
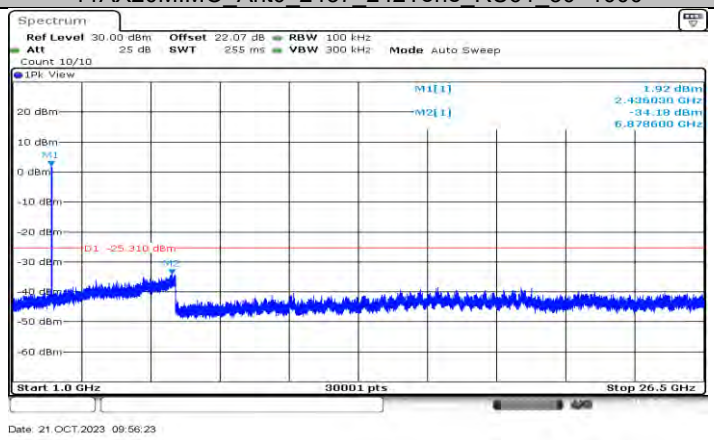
11AX20MIMO_Ant1_2412_242Tone_RU61_1000~26500

11AX20MIMO_Ant0_2437_52Tone_RU38_0~Reference

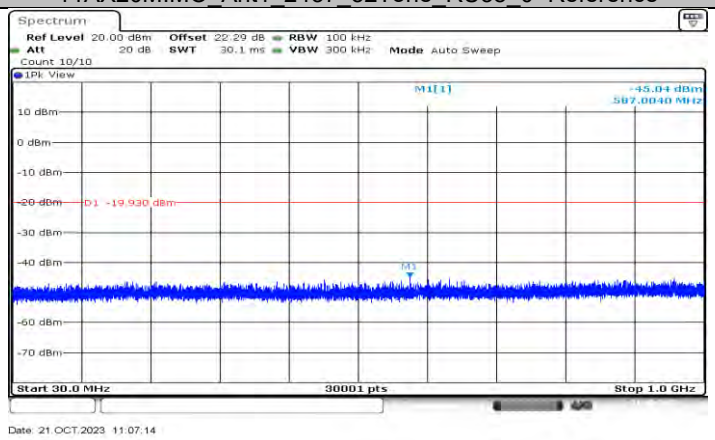


11AX20MIMO_Ant0_2437_52Tone_RU38_30~1000

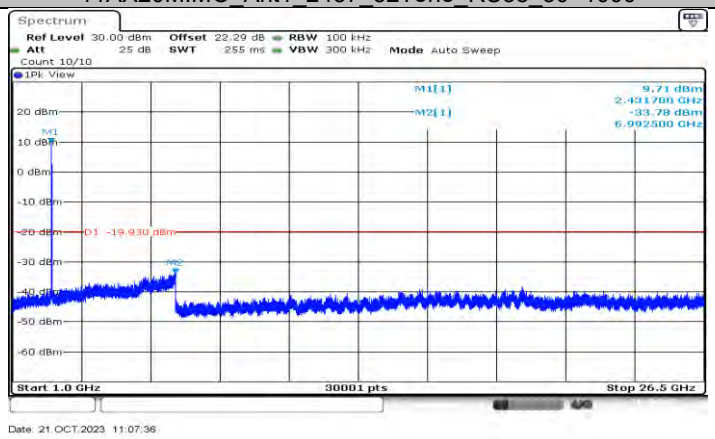


11AX20MIMO_Ant0_2437_52Tone_RU38_1000~26500

11AX20MIMO_Ant0_2437_242Tone_RU61_0~Reference

11AX20MIMO_Ant0_2437_242Tone_RU61_30~1000

11AX20MIMO_Ant0_2437_242Tone_RU61_1000~26500

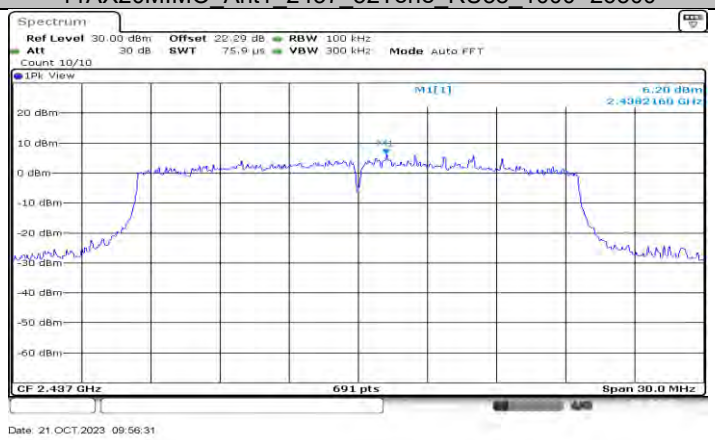
11AX20MIMO_Ant1_2437_52Tone_RU38_0~Reference

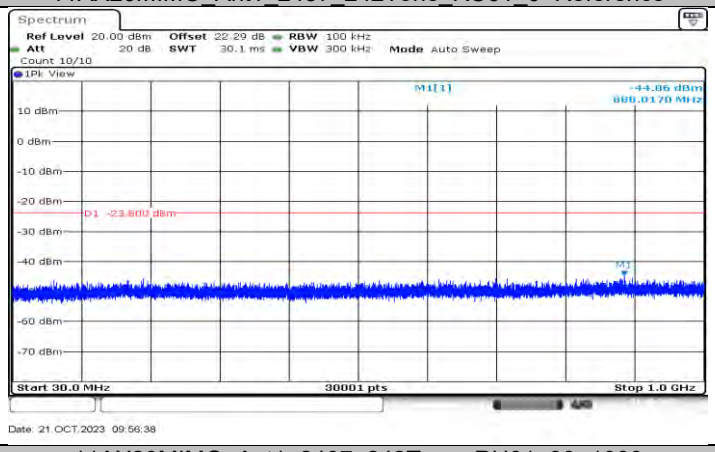
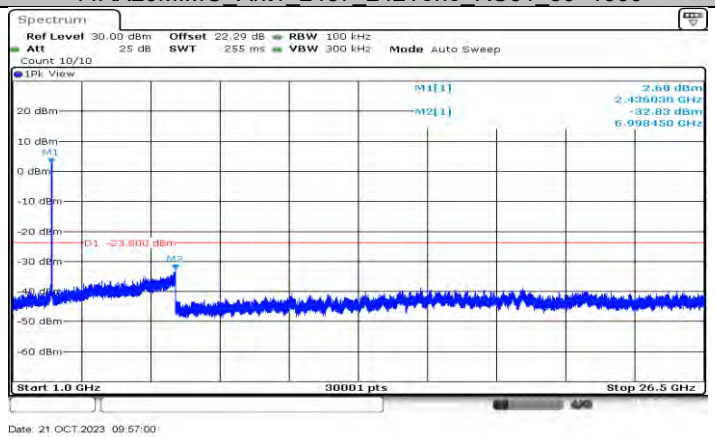
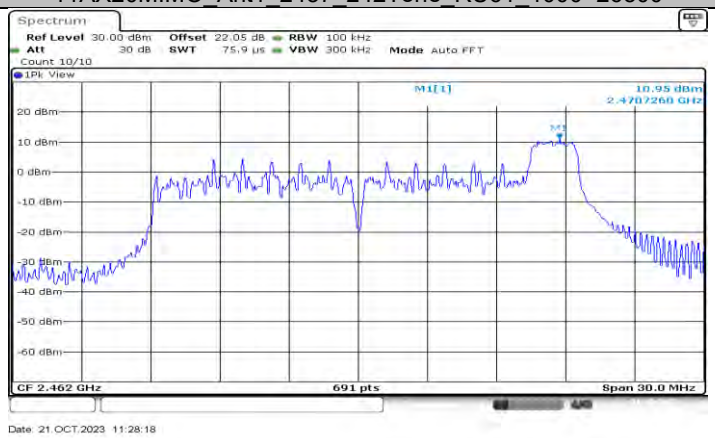


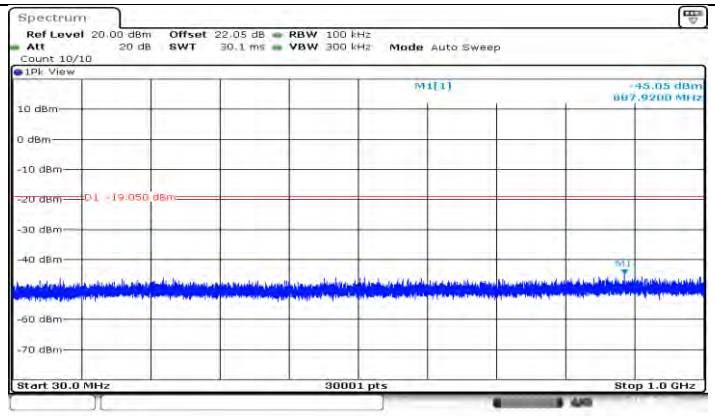
11AX20MIMO_Ant1_2437_52Tone_RU38_30~1000



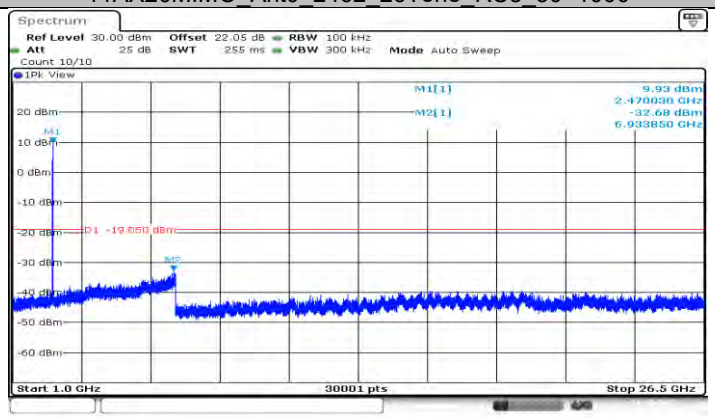
11AX20MIMO_Ant1_2437_52Tone_RU38_1000~26500



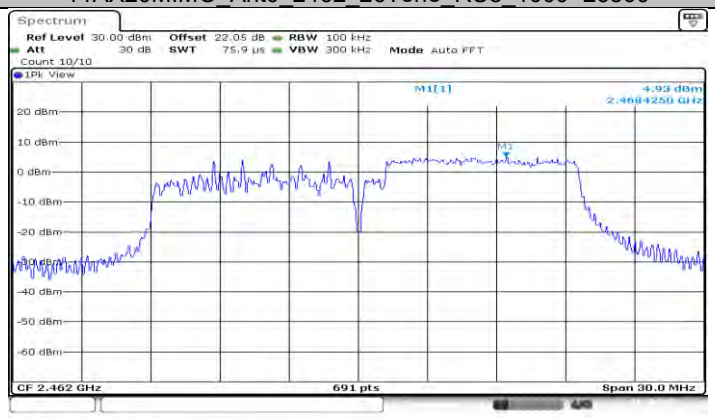
11AX20MIMO_Ant1_2437_242Tone_RU61_0~Reference

11AX20MIMO_Ant1_2437_242Tone_RU61_30~1000

11AX20MIMO_Ant1_2437_242Tone_RU61_1000~26500

11AX20MIMO_Ant0_2462_26Tone_RU8_0~Reference



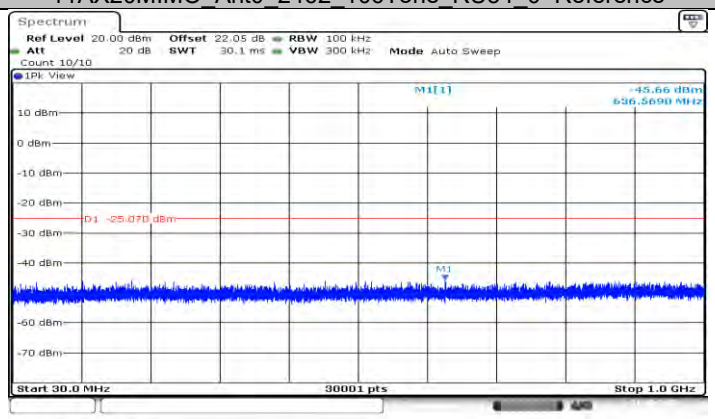
11AX20MIMO_Ant0_2462_26Tone_RU8_30~1000



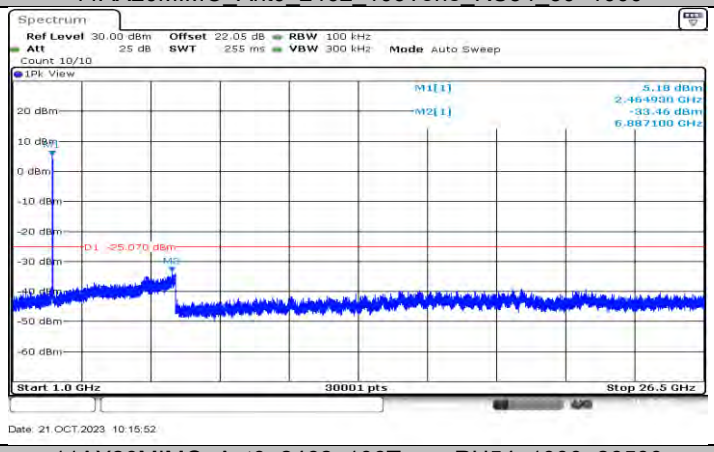
11AX20MIMO_Ant0_2462_26Tone_RU8_1000~26500



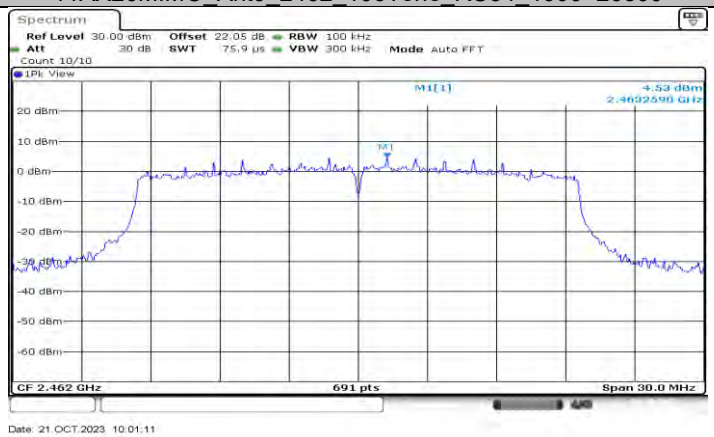
11AX20MIMO_Ant0_2462_106Tone_RU54_0~Reference



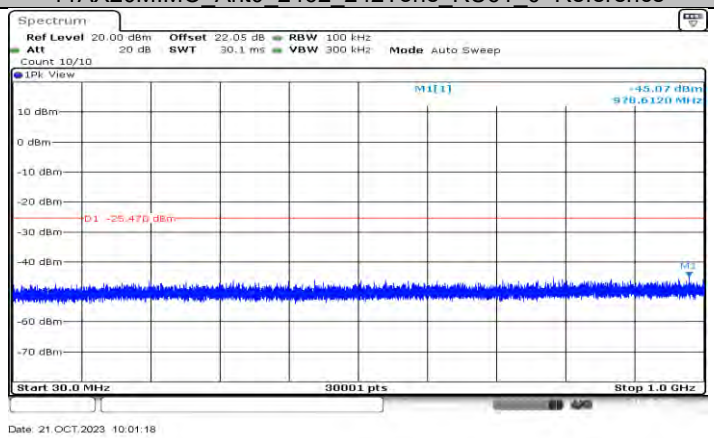
11AX20MIMO_Ant0_2462_106Tone_RU54_30~1000



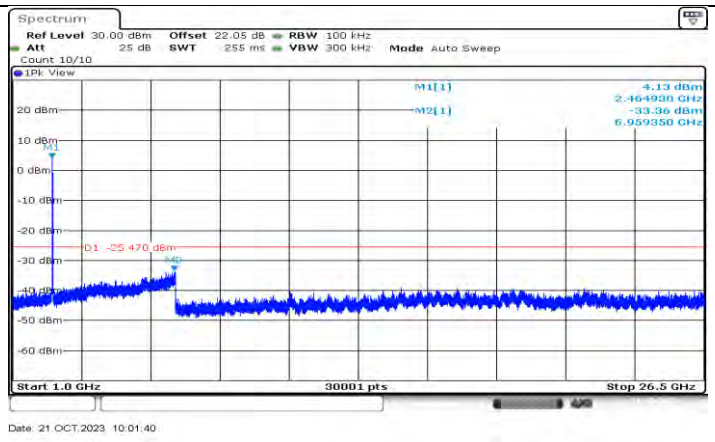
11AX20MIMO_Ant0_2462_106Tone_RU54_1000~26500



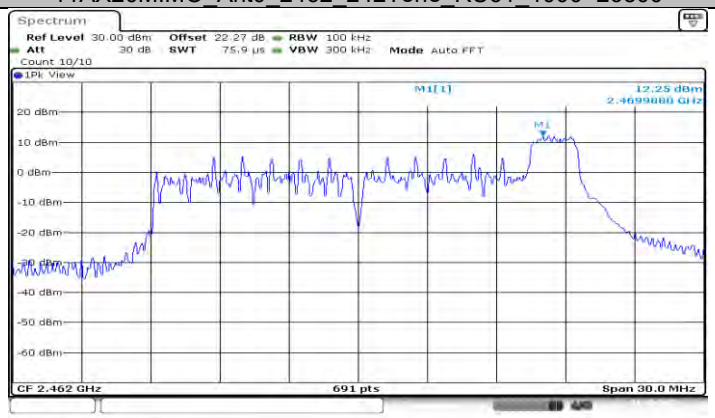
11AX20MIMO_Ant0_2462_242Tone_RU61_0~Reference



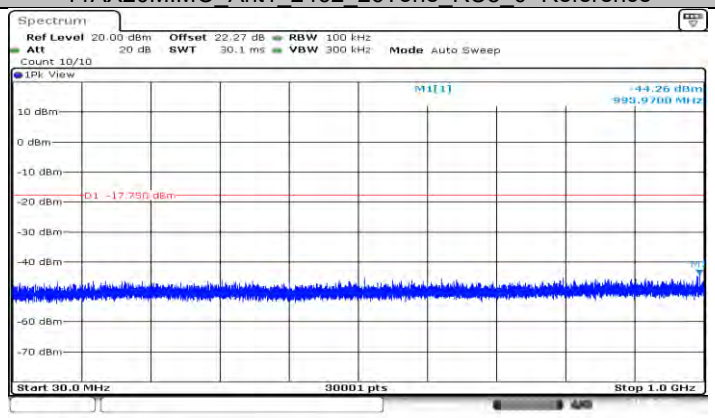
11AX20MIMO_Ant0_2462_242Tone_RU61_30~1000



11AX20MIMO_Ant0_2462_242Tone_RU61_1000~26500



11AX20MIMO_Ant1_2462_26Tone_RU8_0~Reference



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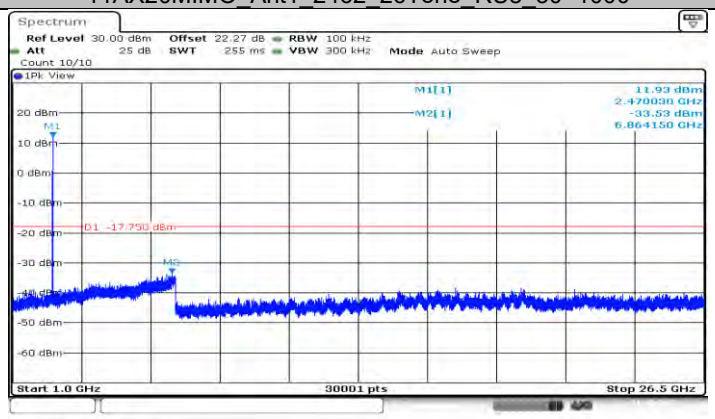

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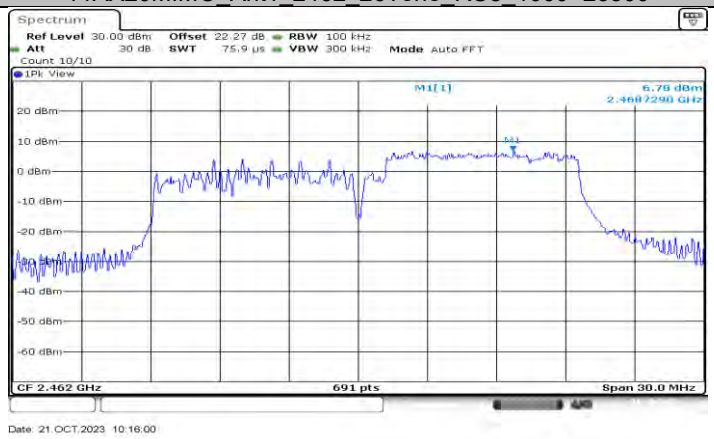

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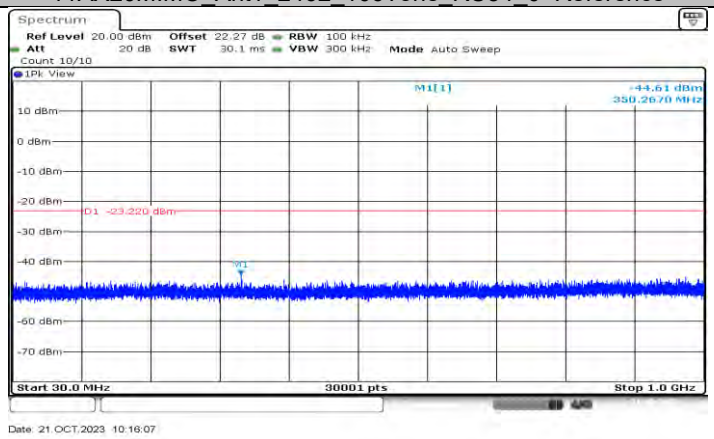

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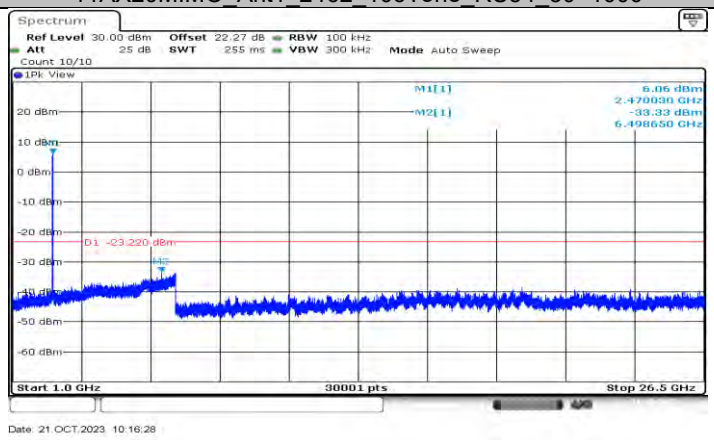

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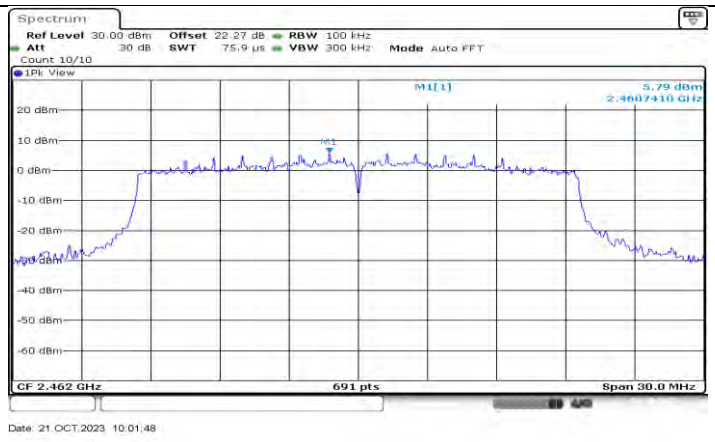

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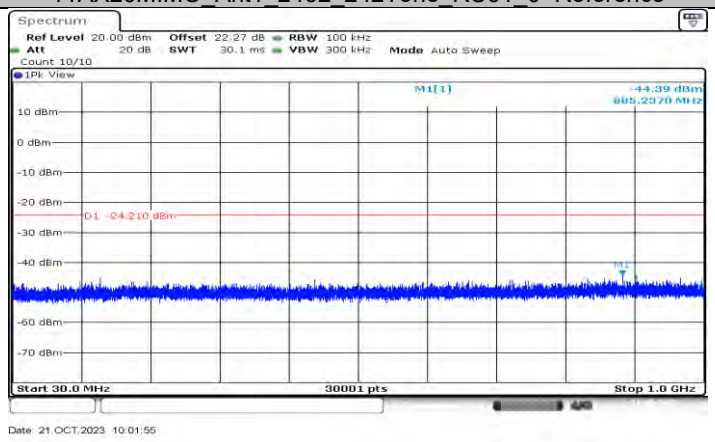

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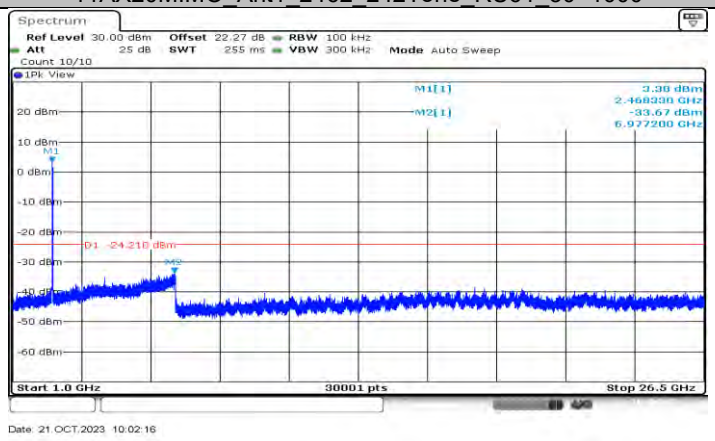

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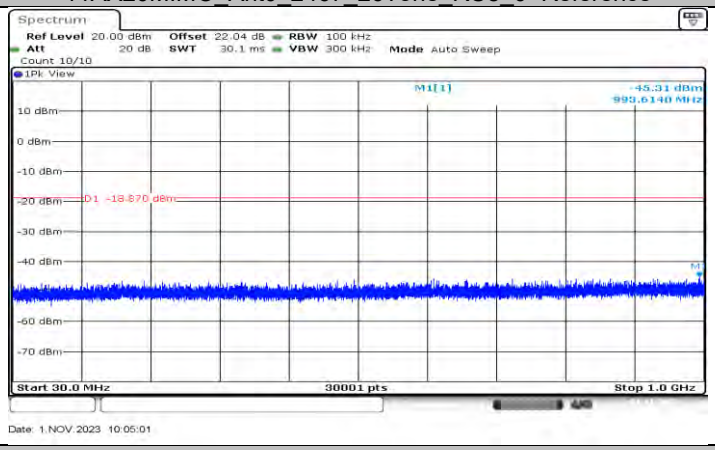
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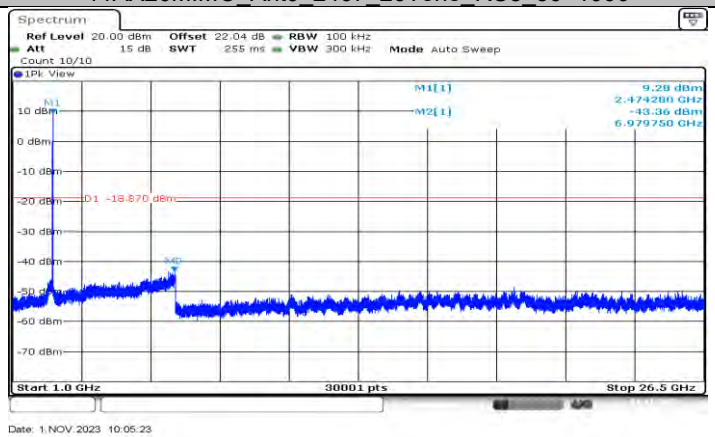
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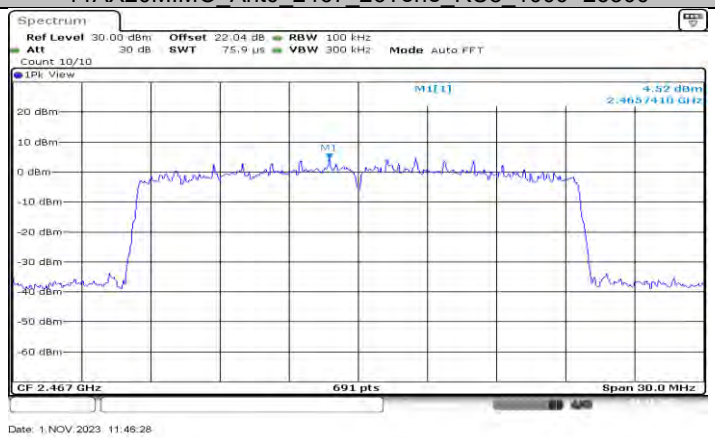
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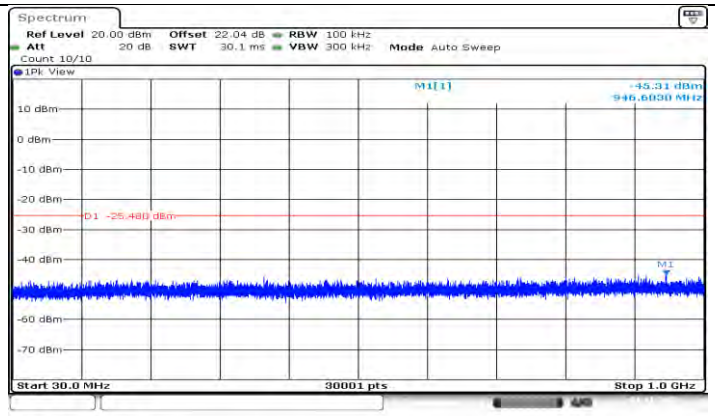

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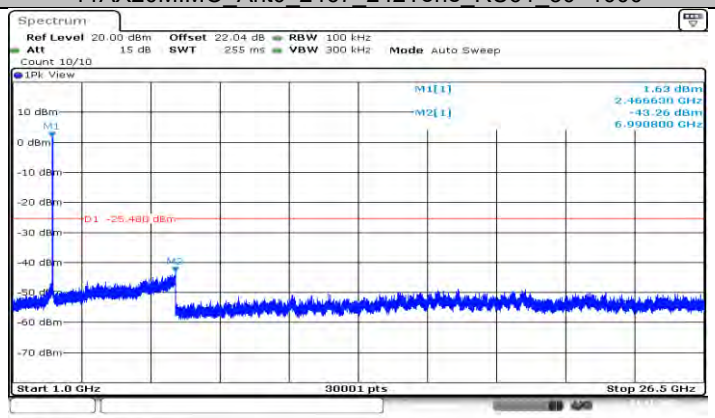

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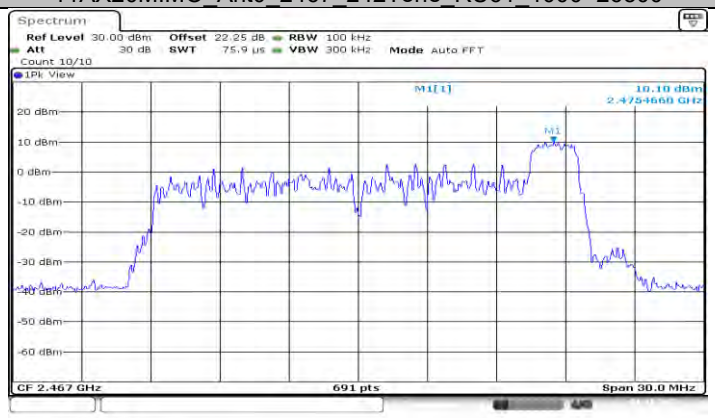

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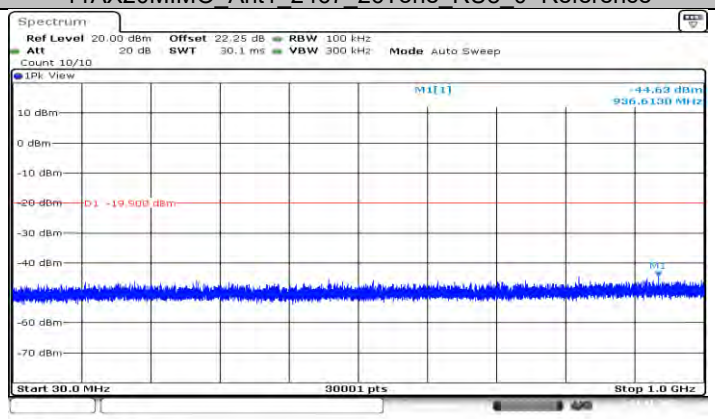

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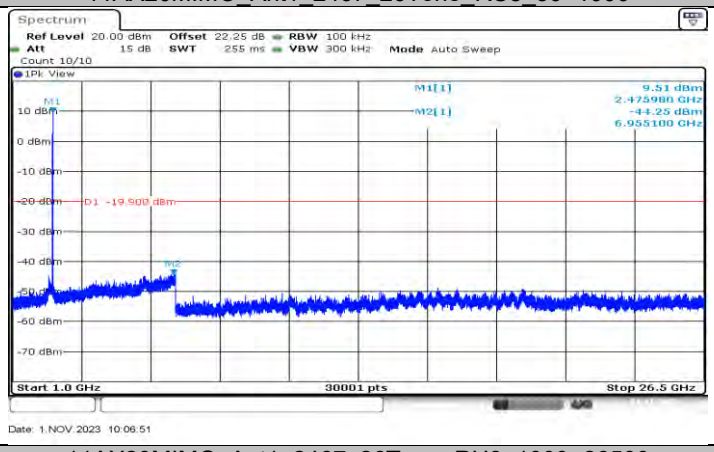

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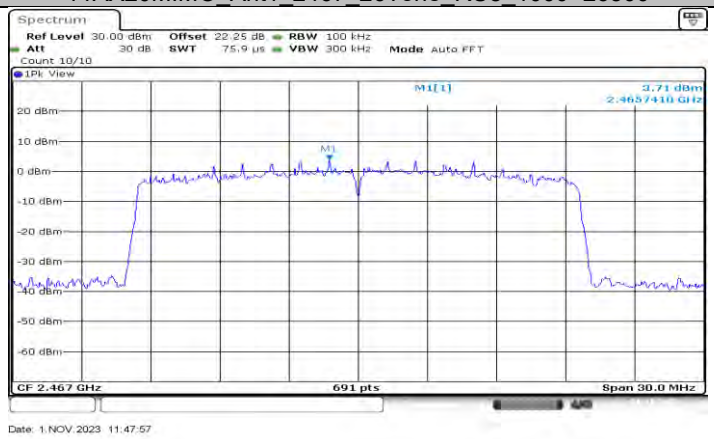

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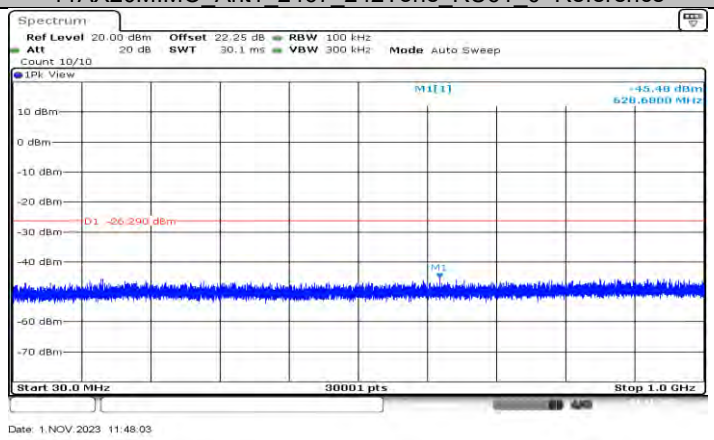

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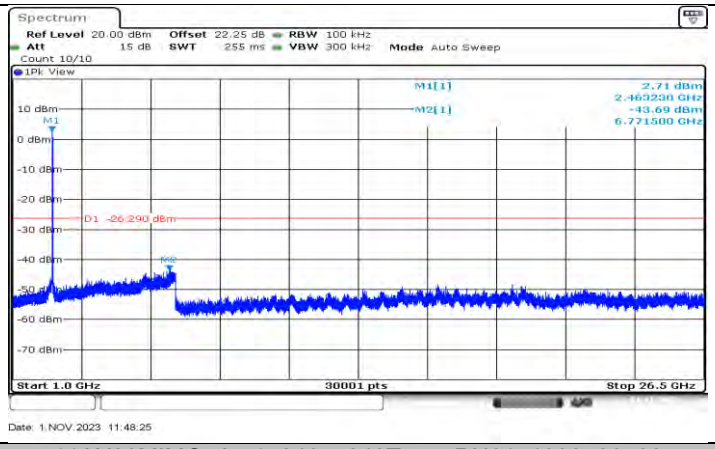

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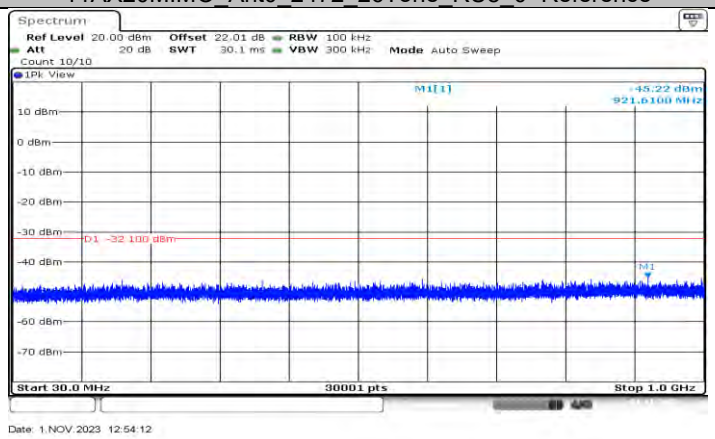
11AX20MIMO_Ant0_2472_26Tone_RU8_0~Reference



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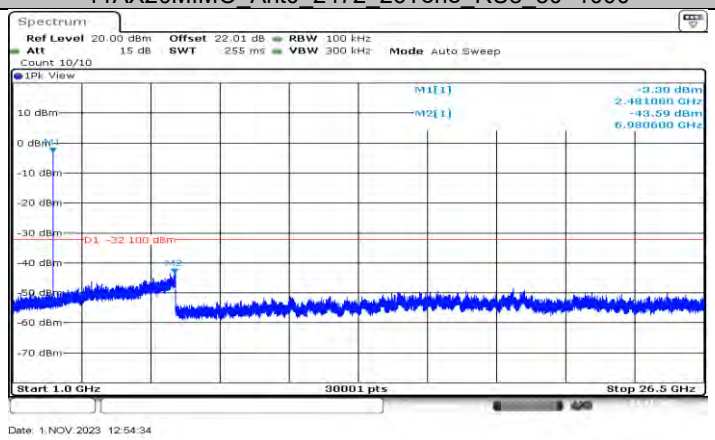

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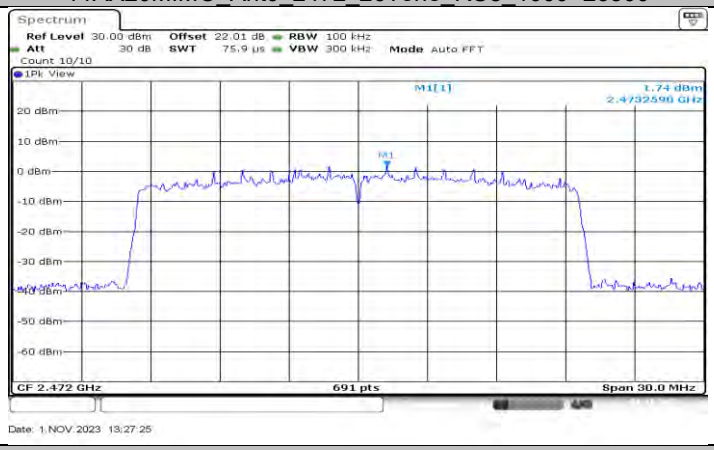

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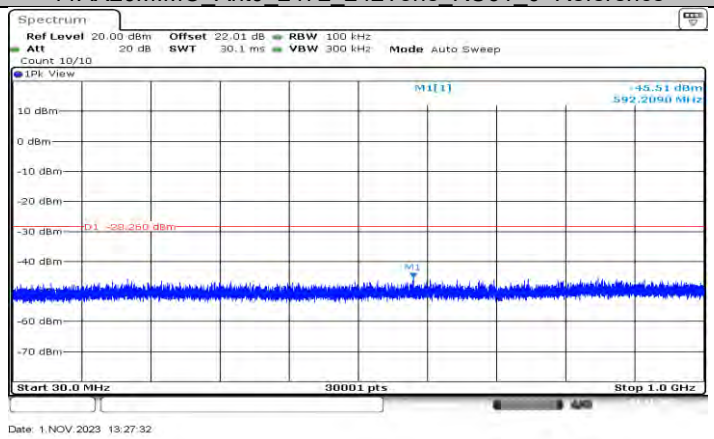

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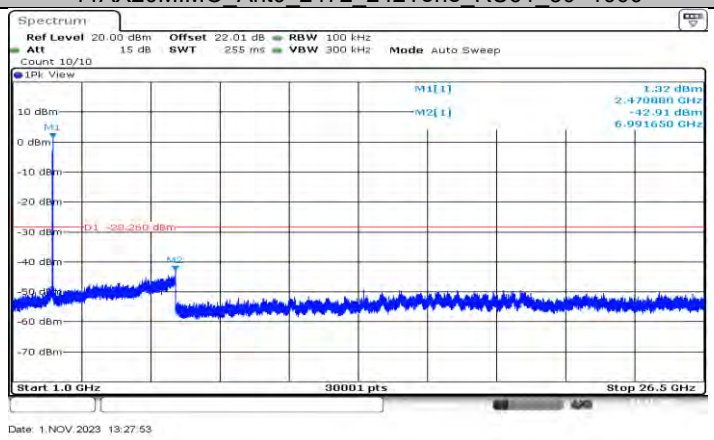

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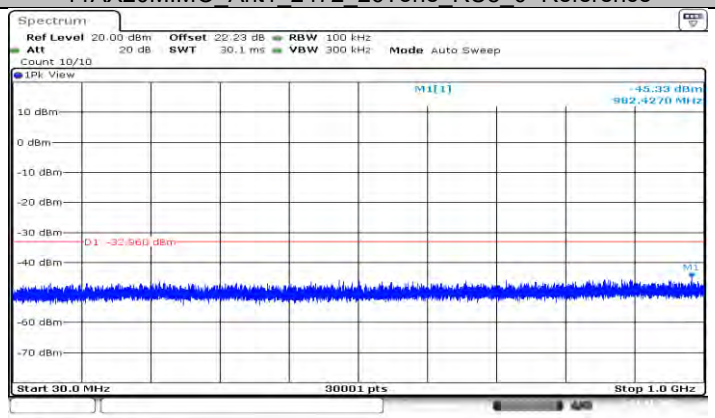

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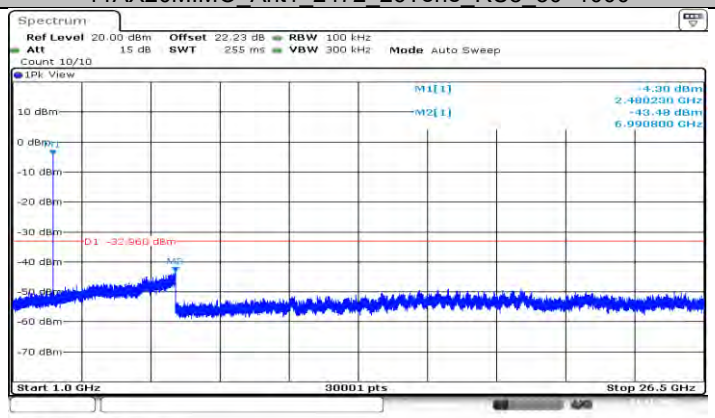

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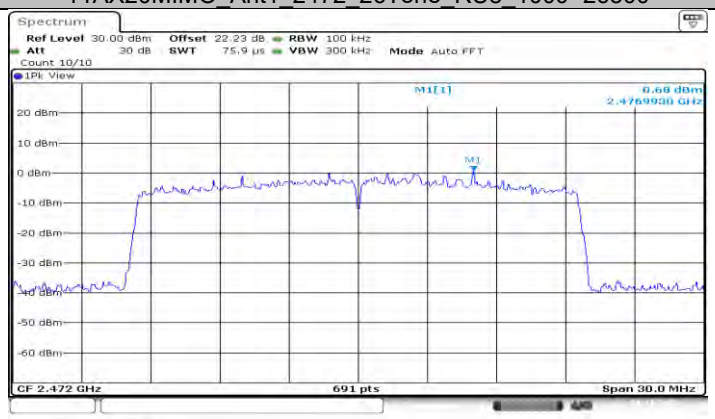

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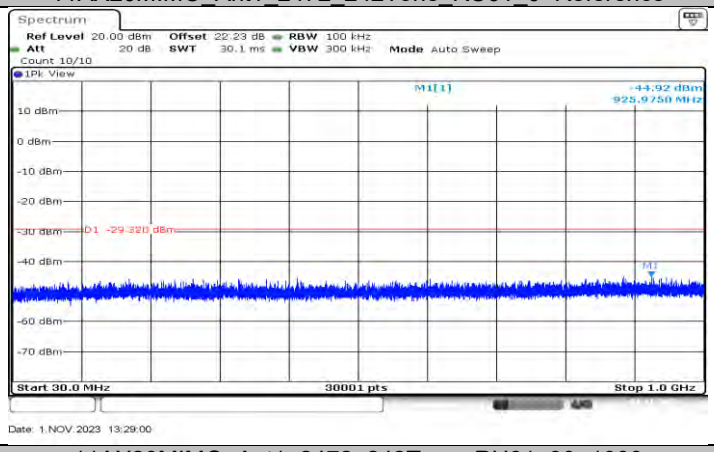
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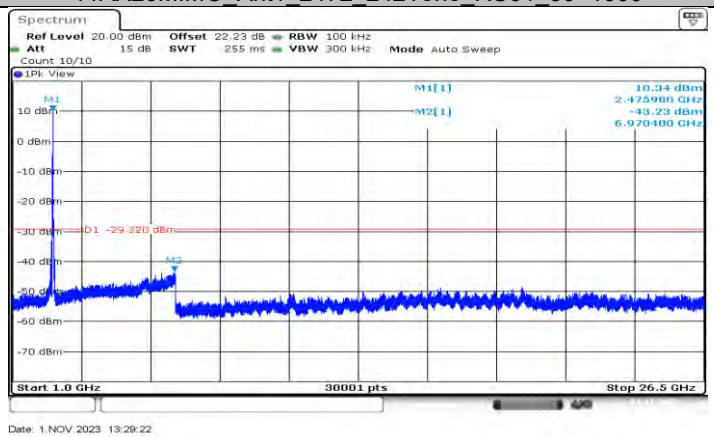

11AX20MIMO_Ant1_2472_242Tone_RU61_1000~26500

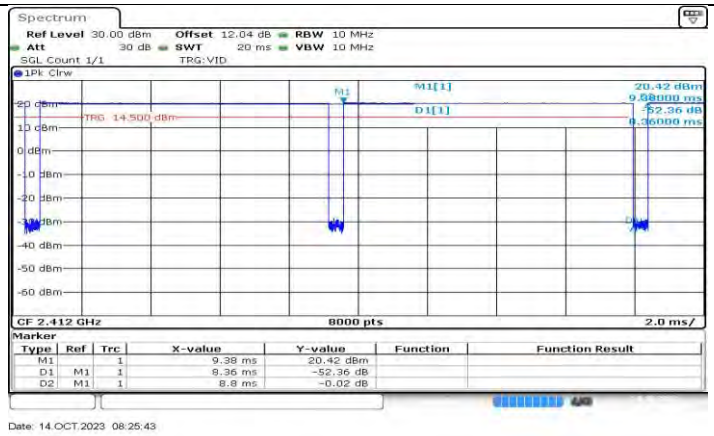
11.13. APPENDIX G: DUTY CYCLE

11.13.1. Test Result

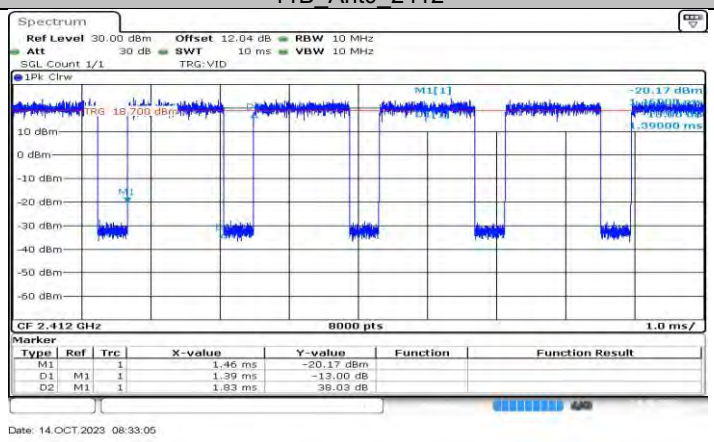
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	8.36	8.80	0.9500	95.00	0.22	0.12	1
11G	1.39	1.83	0.7596	75.96	1.19	0.72	1
11N20MIMO	1.29	1.73	0.7457	74.57	1.27	0.78	1
11AX20MIMO	1.21	1.64	0.7378	73.78	1.32	0.83	1

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

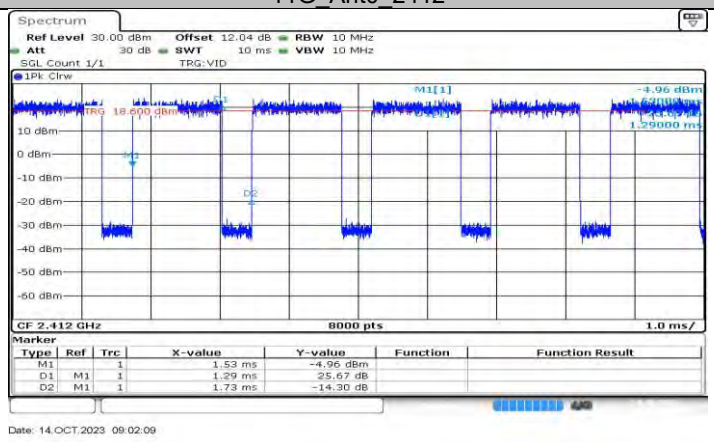
11.13.2. Test Graphs



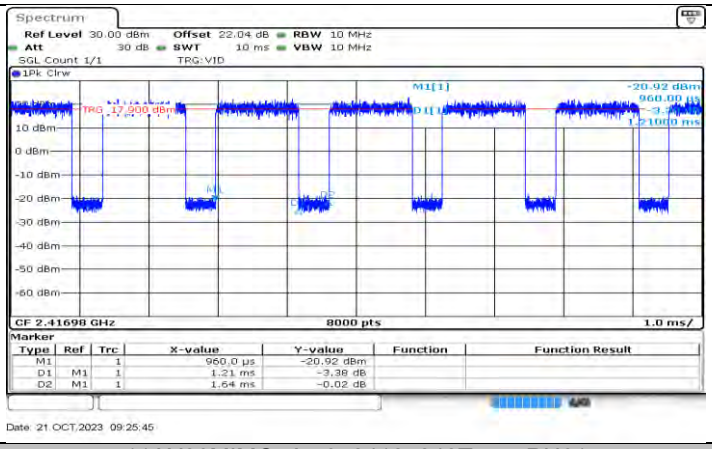
11B_Ant0_2412



11G_Ant0_2412



11N20MIMO_Ant0_2412



11AX20MIMO_Ant0_2412_242Tone_RU61

END OF REPORT