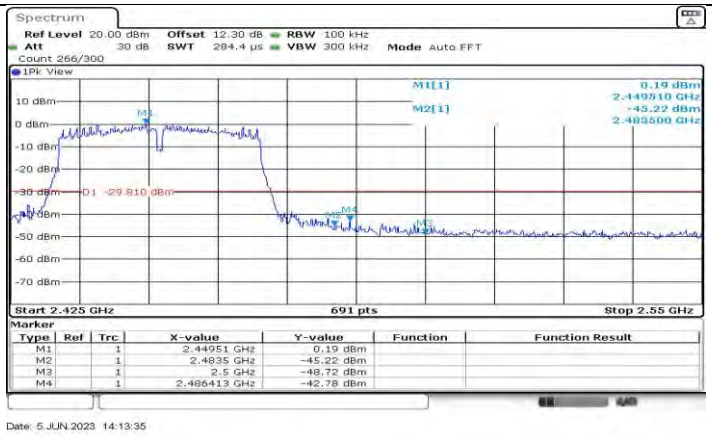
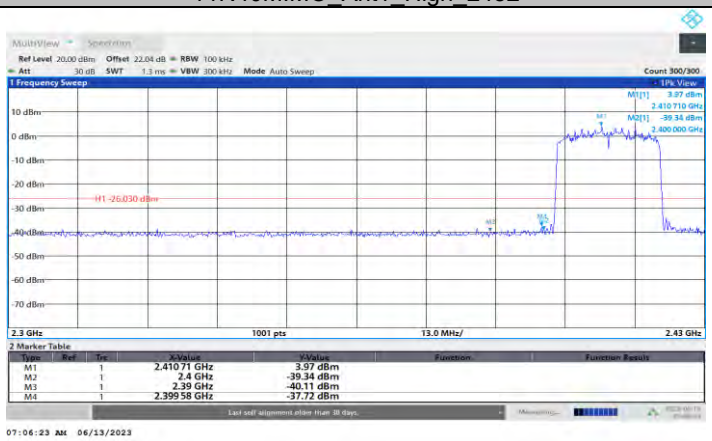
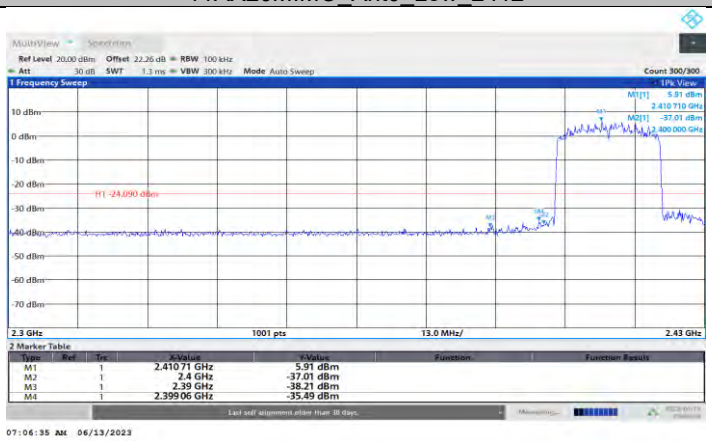


11N40MIMO_Ant1_High_2452



11AX20MIMO_Ant0_Low_2412



11AX20MIMO_Ant1_Low_2412

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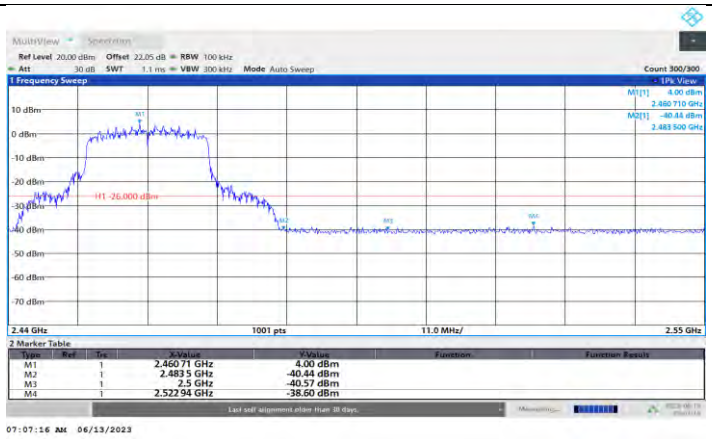
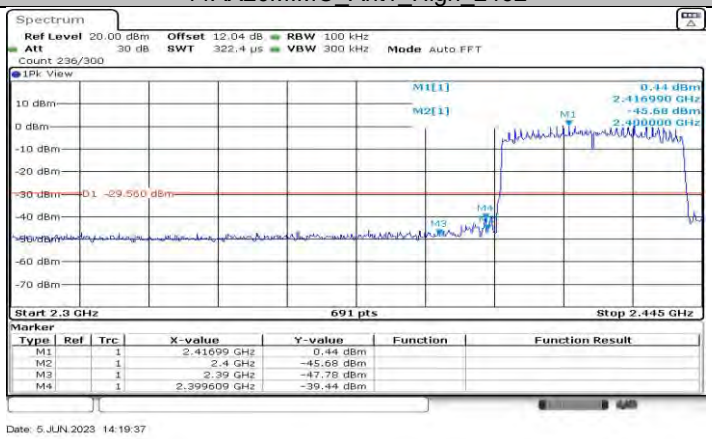


11AX20MIMO_Ant0_High_2462

11AX20MIMO_Ant1_High_2462



11AX40MIMO_Ant0_Low_2422

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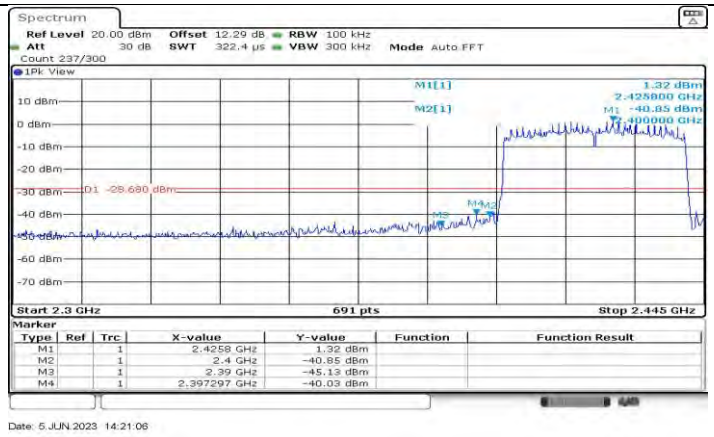
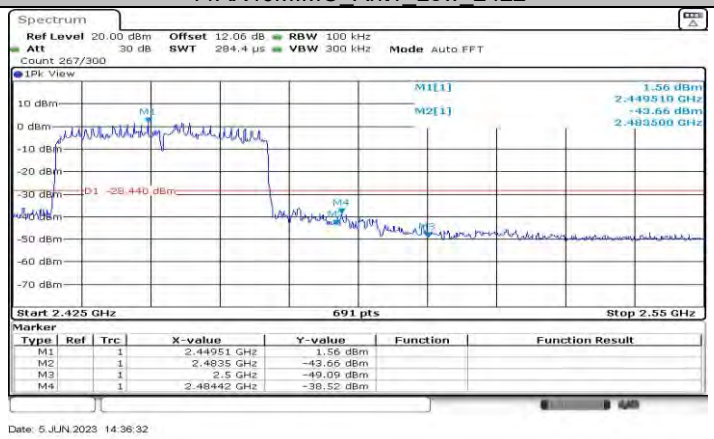
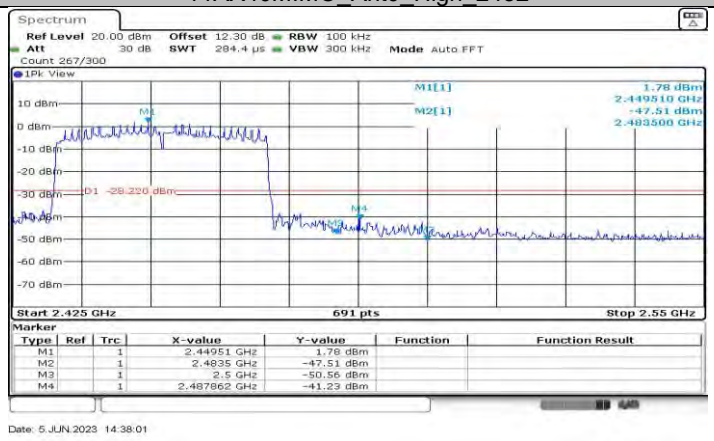


11AX40MIMO_Ant1_Low_2422



11AX40MIMO_Ant0_High_2452



11AX40MIMO_Ant1_High_2452

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11.10. APPENDIX E2: BAND EDGE MEASUREMENTS FOR SINGLE PARTIAL RU

11.10.1. Test Result

TestMode	Antenna	ChName	Channel	Ru Size	Ru Index	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant0	Low	2412	26Tone	RU0	8.42	-37.19	≤-21.58	PASS
	Ant1	Low	2412	26Tone	RU0	6.79	-36.92	≤-23.21	PASS
	Ant0	High	2462	26Tone	RU8	8.89	-38.19	≤-21.11	PASS
	Ant1	High	2462	26Tone	RU8	9.75	-38.1	≤-20.25	PASS
11AX40MIMO	Ant0	Low	2422	26Tone	RU0	6.66	-34.27	≤-23.34	PASS
	Ant1	Low	2422	26Tone	RU0	4.45	-34.99	≤-25.55	PASS
	Ant0	High	2452	26Tone	RU17	6.60	-37.8	≤-23.4	PASS
	Ant1	High	2452	26Tone	RU17	7.39	-37.99	≤-22.61	PASS

Note: All RU Sizes and tones have been tested, only the worst data recorded in the report.

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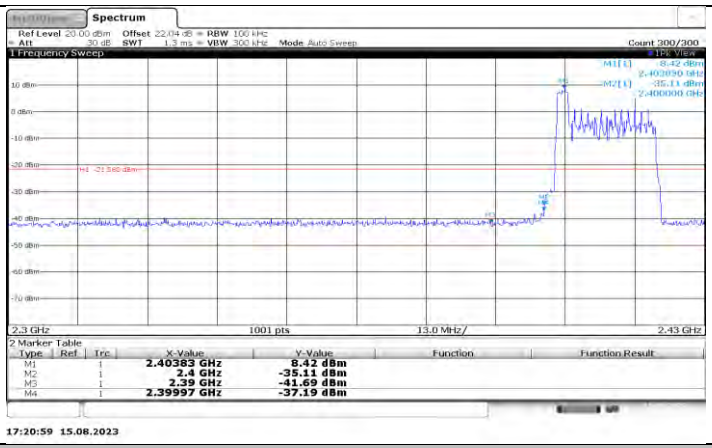
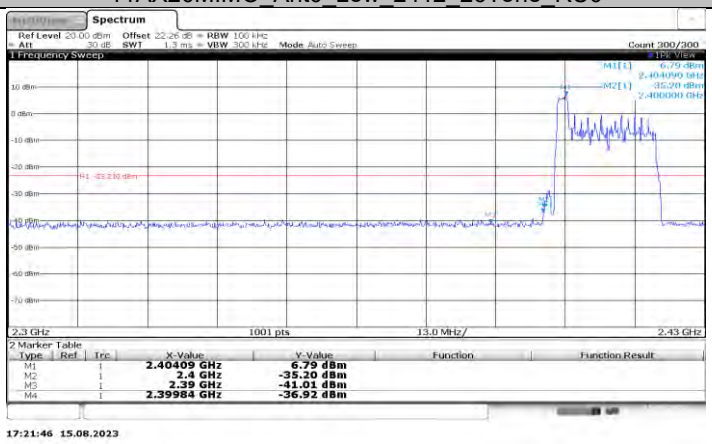
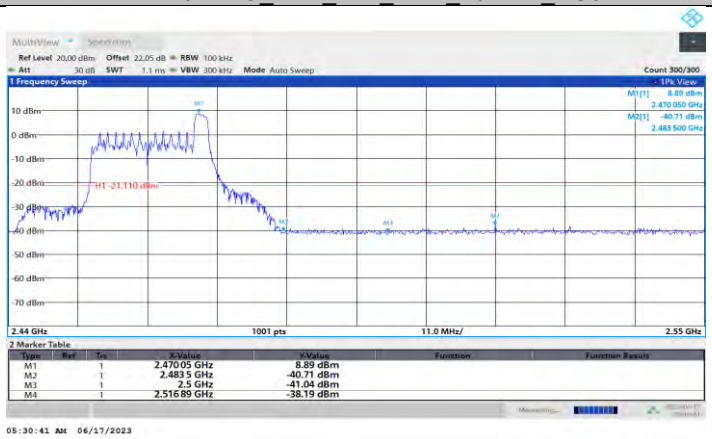
11.10.2. Test Graphs



11AX20MIMO_Ant0_Low_2412_26Tone_RU0



11AX20MIMO_Ant1_Low_2412_26Tone_RU0



11AX20MIMO_Ant0_High_2462_26Tone_RU8

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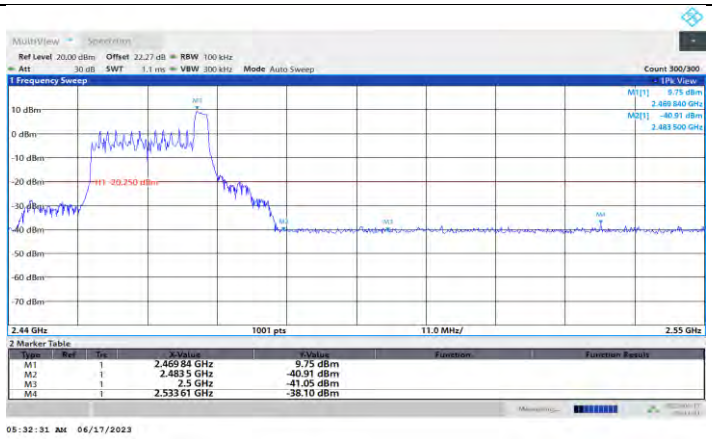
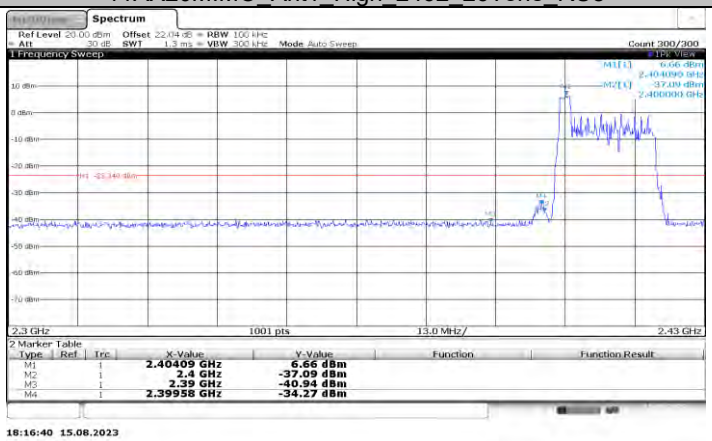
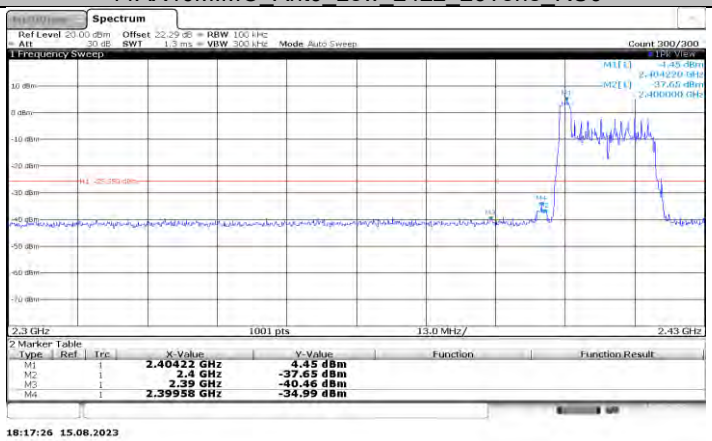


11AX20MIMO_Ant1_High_2462_26Tone_RU8



11AX40MIMO_Ant0_Low_2422_26Tone_RU0



11AX40MIMO_Ant1_Low_2422_26Tone_RU0

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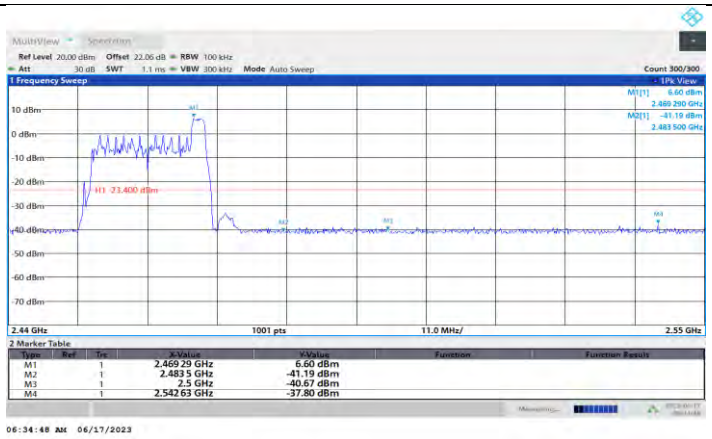
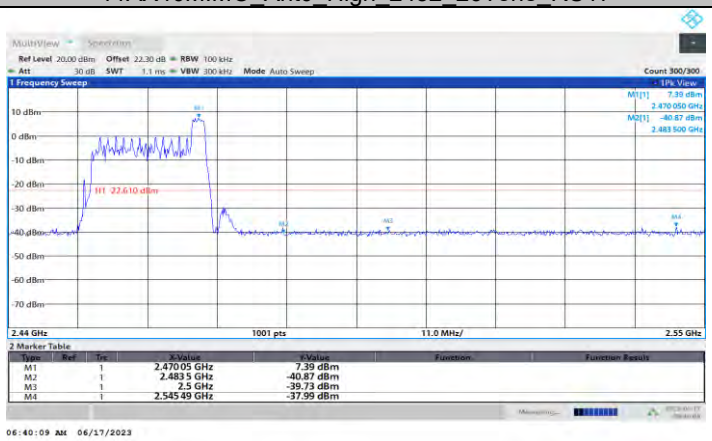


11AX40MIMO_Ant0_High_2452_26Tone_RU17



11AX40MIMO_Ant1_High_2452_26Tone_RU17

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11.11. APPENDIX F1: CONDUCTED SPURIOUS EMISSION FOR FULL RU

11.11.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	10.07	---	PASS
			30~1000	-55.94	≤-19.93	PASS
			1000~26500	-40.36	≤-19.93	PASS
	Ant1	2412	Reference	9.65	---	PASS
			30~1000	-55.94	≤-20.35	PASS
			1000~26500	-40.75	≤-20.35	PASS
	Ant0	2437	Reference	10.05	---	PASS
			30~1000	-55.25	≤-19.95	PASS
			1000~26500	-40.79	≤-19.95	PASS
	Ant1	2437	Reference	10.17	---	PASS
			30~1000	-55.57	≤-19.83	PASS
			1000~26500	-40.34	≤-19.83	PASS
	Ant0	2462	Reference	10.36	---	PASS
			30~1000	-55.75	≤-19.64	PASS
			1000~26500	-40.65	≤-19.64	PASS
	Ant1	2462	Reference	10.19	---	PASS
			30~1000	-55.66	≤-19.81	PASS
			1000~26500	-40.44	≤-19.81	PASS
11G	Ant0	2412	Reference	6.04	---	PASS
			30~1000	-58.02	≤-23.96	PASS
			1000~26500	-42.13	≤-23.96	PASS
	Ant1	2412	Reference	6.03	---	PASS
			30~1000	-57.5	≤-23.97	PASS
			1000~26500	-41.34	≤-23.97	PASS
	Ant0	2437	Reference	6.33	---	PASS
			30~1000	-57.7	≤-23.67	PASS
			1000~26500	-42.24	≤-23.67	PASS
	Ant1	2437	Reference	6.22	---	PASS
			30~1000	-57.56	≤-23.78	PASS
			1000~26500	-41.29	≤-23.78	PASS
	Ant0	2462	Reference	6.18	---	PASS
			30~1000	-58.16	≤-23.82	PASS
			1000~26500	-41.48	≤-23.82	PASS
	Ant1	2462	Reference	6.22	---	PASS
			30~1000	-57.02	≤-23.78	PASS
			1000~26500	-41.97	≤-23.78	PASS
11N20MIMO	Ant0	2412	Reference	5.11	---	PASS
			30~1000	-57.76	≤-24.89	PASS
			1000~26500	-41.52	≤-24.89	PASS
	Ant1	2412	Reference	4.76	---	PASS
			30~1000	-56.76	≤-25.24	PASS
			1000~26500	-41.64	≤-25.24	PASS
	Ant0	2437	Reference	5.59	---	PASS
			30~1000	-56.89	≤-24.41	PASS
			1000~26500	-41.34	≤-24.41	PASS
	Ant1	2437	Reference	5.36	---	PASS
			30~1000	-58.02	≤-24.64	PASS
			1000~26500	-41.69	≤-24.64	PASS
	Ant0	2462	Reference	5.31	---	PASS
			30~1000	-58.33	≤-24.69	PASS
			1000~26500	-41.38	≤-24.69	PASS
	Ant1	2462	Reference	5.26	---	PASS
			30~1000	-57.97	≤-24.74	PASS
			1000~26500	-41.1	≤-24.74	PASS
11N40MIMO	Ant0	2422	Reference	1.54	---	PASS
			30~1000	-54.92	≤-28.46	PASS
			1000~26500	-40.36	≤-28.46	PASS

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	Ant1	2422	Reference	1.37	---	PASS
			30~1000	-55.92	≤-28.63	PASS
			1000~26500	-40.07	≤-28.63	PASS
	Ant0	2437	Reference	1.60	---	PASS
			30~1000	-56.13	≤-28.4	PASS
			1000~26500	-40.46	≤-28.4	PASS
	Ant1	2437	Reference	1.50	---	PASS
			30~1000	-54.83	≤-28.5	PASS
			1000~26500	-40.84	≤-28.5	PASS
	Ant0	2452	Reference	1.74	---	PASS
			30~1000	-56.15	≤-28.26	PASS
			1000~26500	-40.5	≤-28.26	PASS
	Ant1	2452	Reference	1.91	---	PASS
			30~1000	-55.72	≤-28.09	PASS
			1000~26500	-40.52	≤-28.09	PASS
11AX20MIMO	Ant0	2412	Reference	5.50	---	PASS
			30~1000	-57.65	≤-24.5	PASS
			1000~26500	-41.84	≤-24.5	PASS
	Ant1	2412	Reference	5.37	---	PASS
			30~1000	-57.48	≤-24.63	PASS
			1000~26500	-41.37	≤-24.63	PASS
	Ant0	2437	Reference	5.60	---	PASS
			30~1000	-57.3	≤-24.4	PASS
			1000~26500	-41.56	≤-24.4	PASS
	Ant1	2437	Reference	5.33	---	PASS
			30~1000	-56.78	≤-24.67	PASS
			1000~26500	-41.06	≤-24.67	PASS
	Ant0	2462	Reference	5.33	---	PASS
			30~1000	-57.87	≤-24.67	PASS
			1000~26500	-41.55	≤-24.67	PASS
	Ant1	2462	Reference	5.32	---	PASS
			30~1000	-56.71	≤-24.68	PASS
			1000~26500	-41.01	≤-24.68	PASS
11AX40MIMO	Ant0	2422	Reference	1.44	---	PASS
			30~1000	-55.52	≤-28.56	PASS
			1000~26500	-40.12	≤-28.56	PASS
	Ant1	2422	Reference	1.55	---	PASS
			30~1000	-55.56	≤-28.45	PASS
			1000~26500	-40.16	≤-28.45	PASS
	Ant0	2437	Reference	1.72	---	PASS
			30~1000	-54.95	≤-28.28	PASS
			1000~26500	-40.92	≤-28.28	PASS
	Ant1	2437	Reference	1.56	---	PASS
			30~1000	-55.67	≤-28.44	PASS
			1000~26500	-39.69	≤-28.44	PASS
	Ant0	2452	Reference	1.57	---	PASS
			30~1000	-55.89	≤-28.43	PASS
			1000~26500	-40.43	≤-28.43	PASS
	Ant1	2452	Reference	1.77	---	PASS
			30~1000	-55.47	≤-28.23	PASS
			1000~26500	-39.42	≤-28.23	PASS

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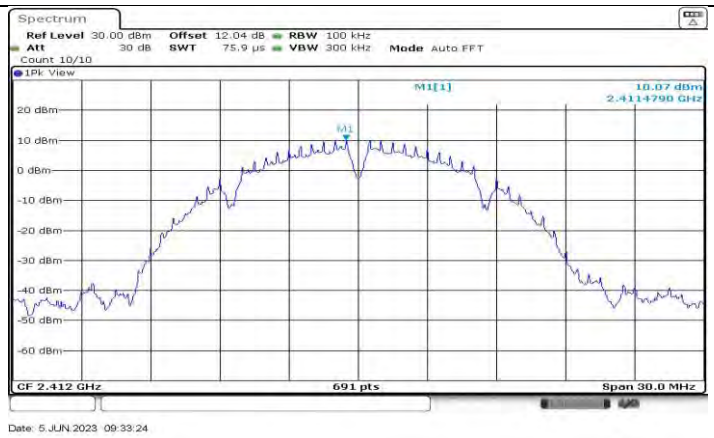
11.11.2. Test Graphs



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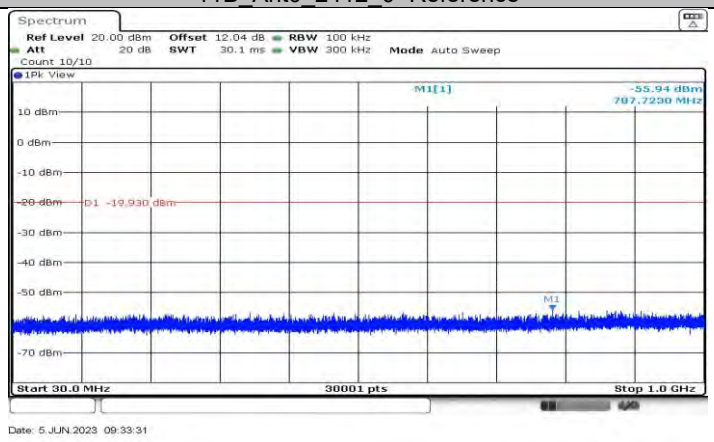
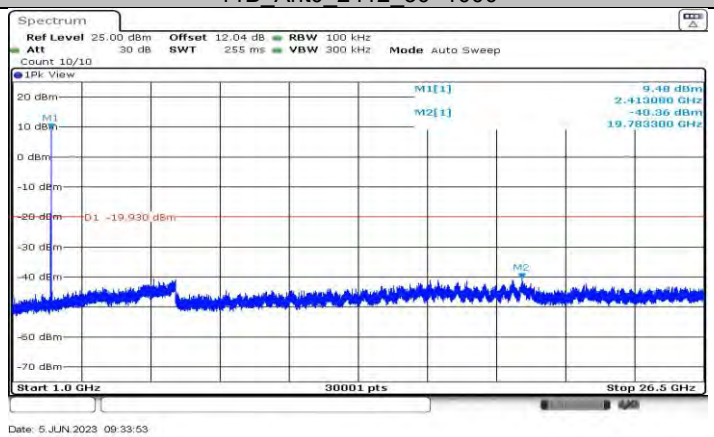


11B_Ant0_2412_30~1000



11B_Ant0_2412_1000~26500

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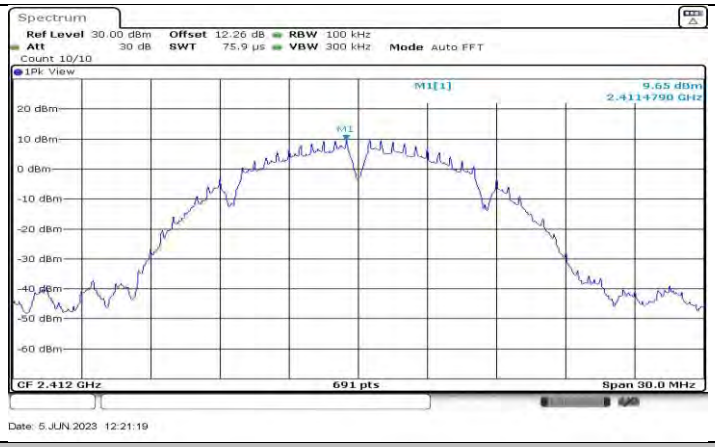
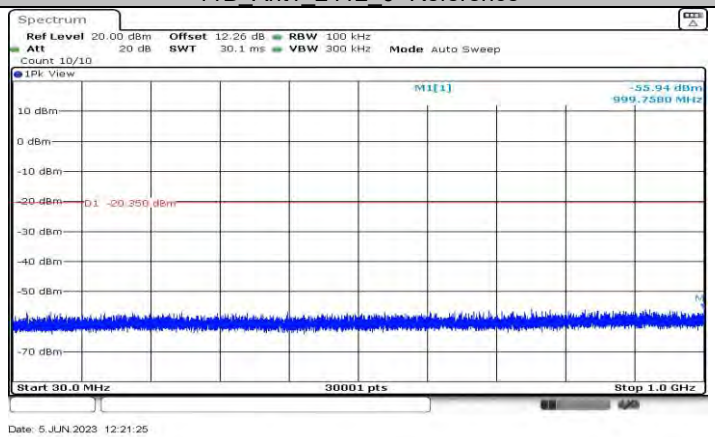
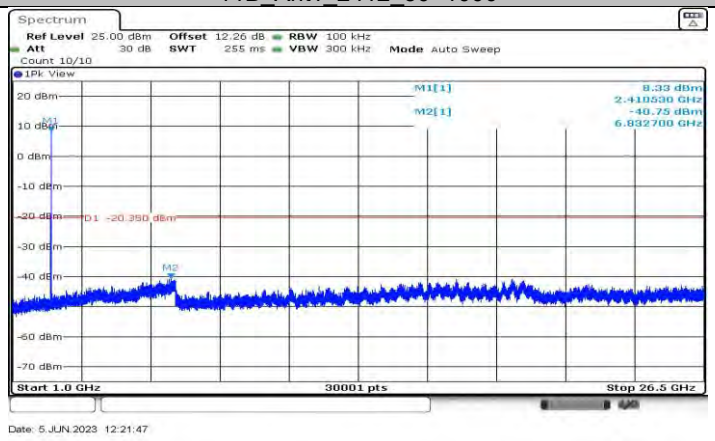


11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

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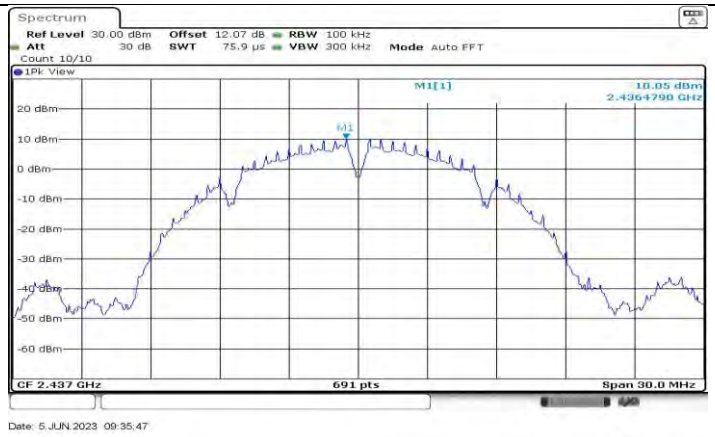
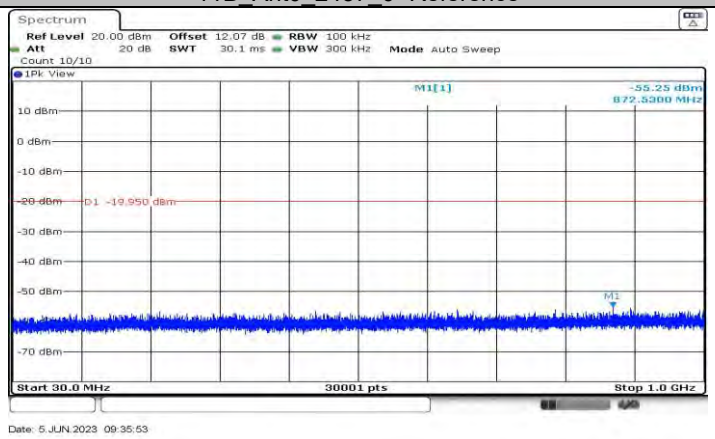
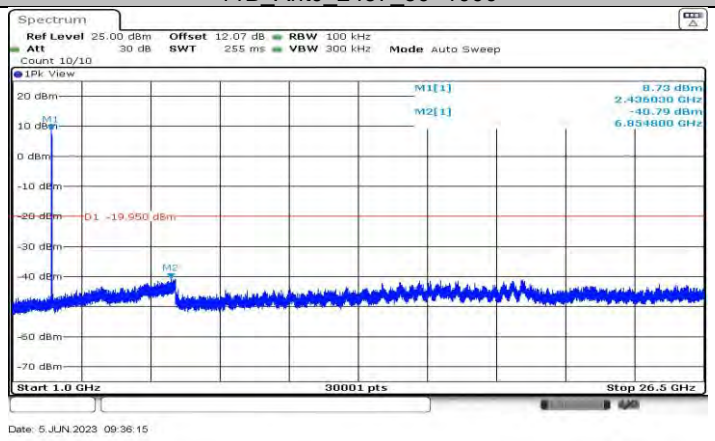


11B_Ant0_2437_0~Reference



11B_Ant0_2437_30~1000



11B_Ant0_2437_1000~26500

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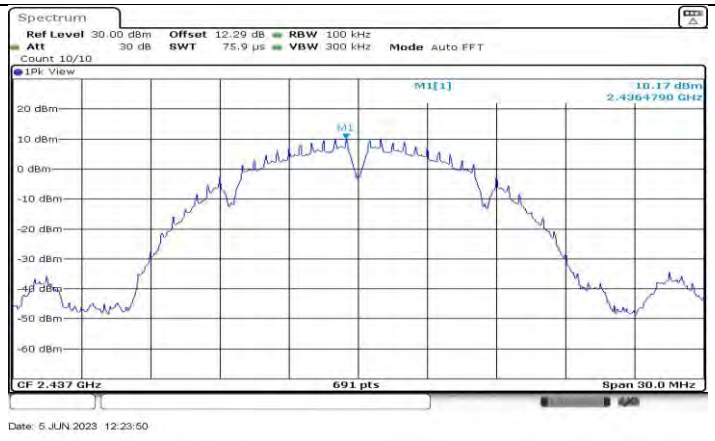
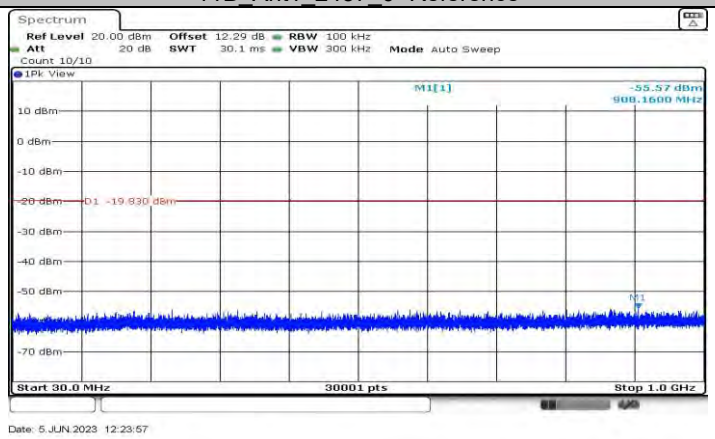
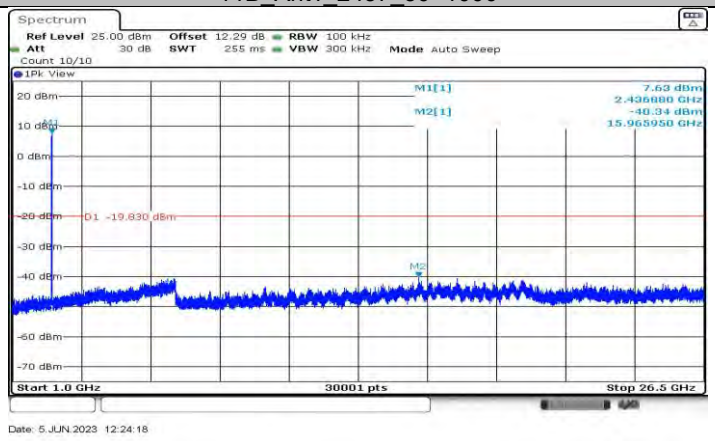


11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500

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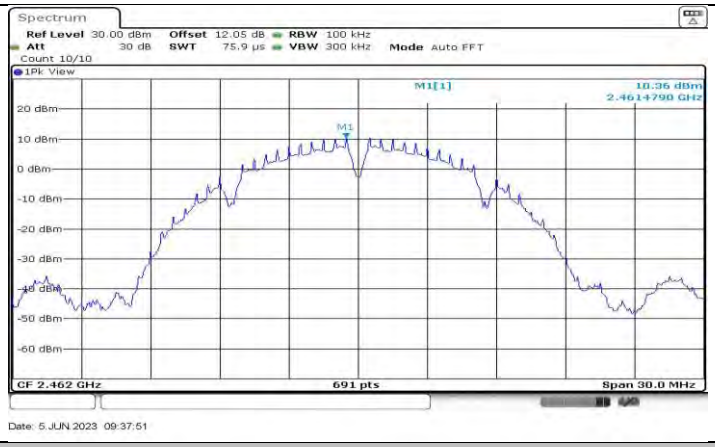
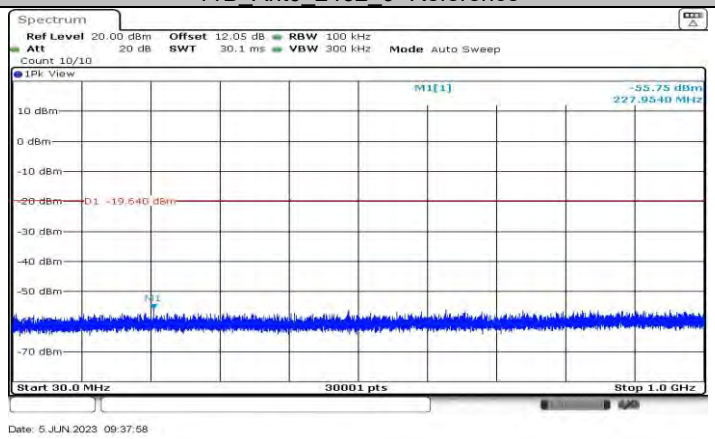
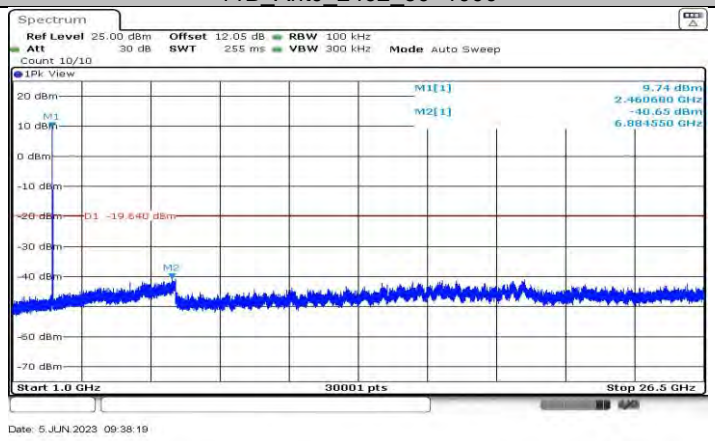


11B_Ant0_2462_0~Reference



11B_Ant0_2462_30~1000



11B_Ant0_2462_1000~26500

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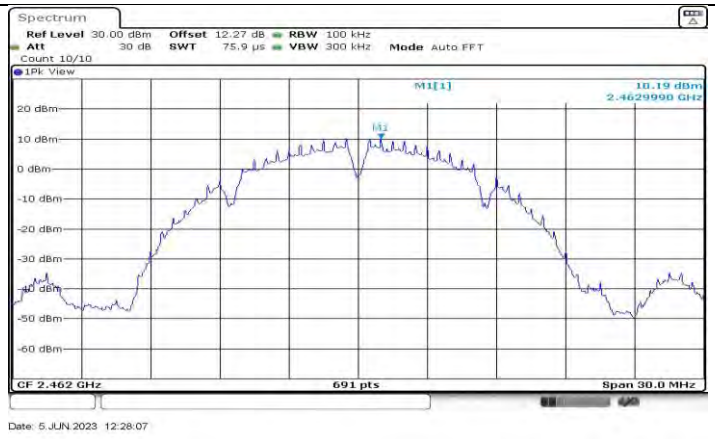

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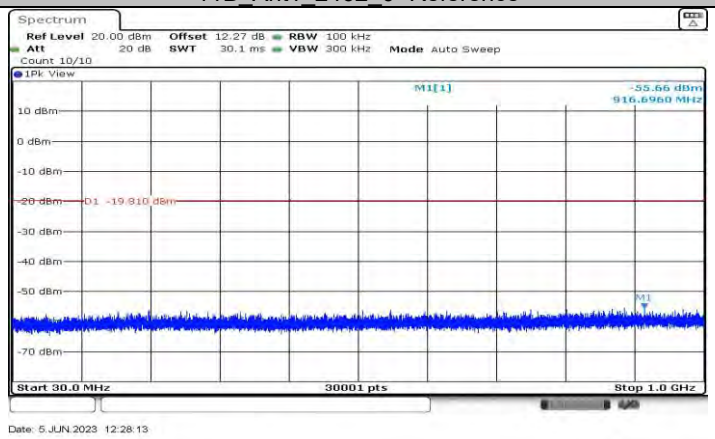

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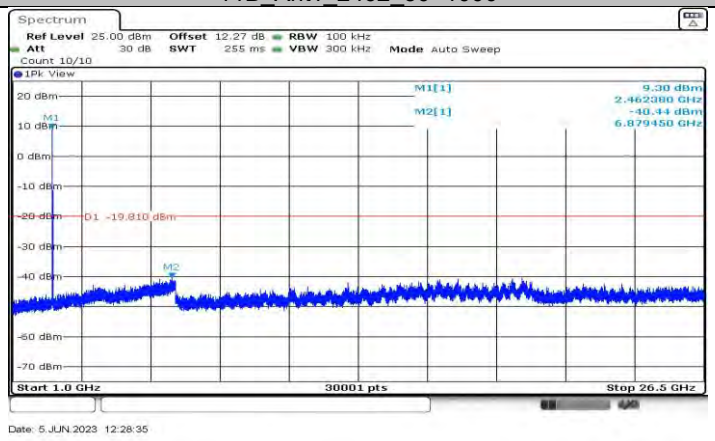

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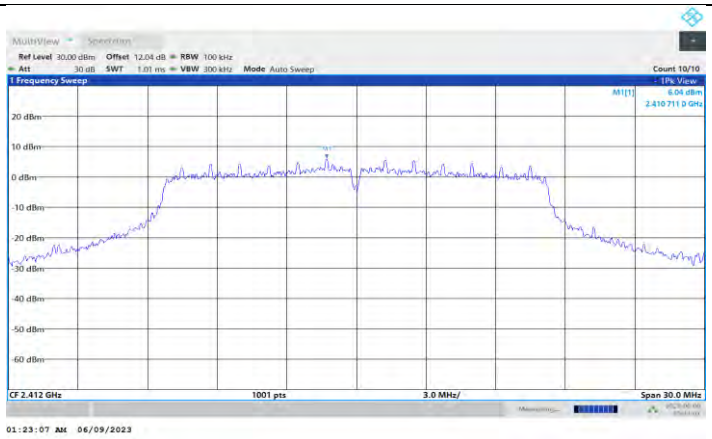

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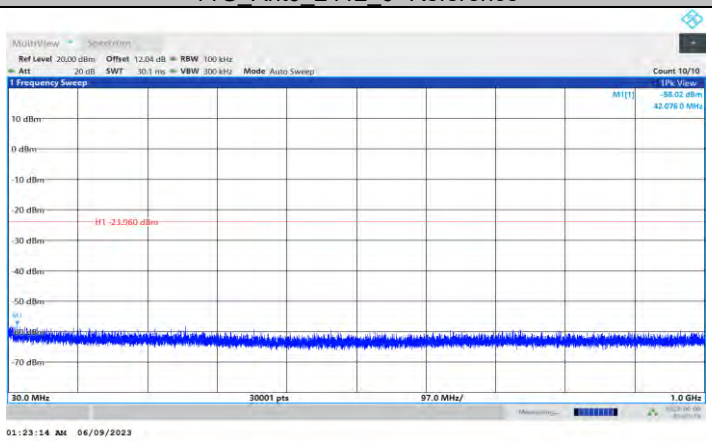

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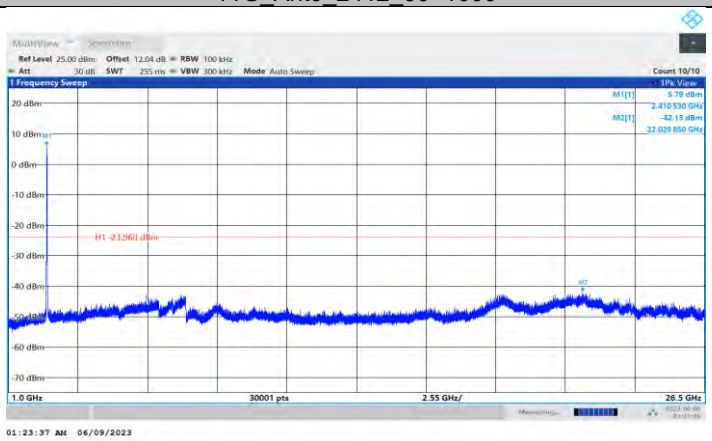

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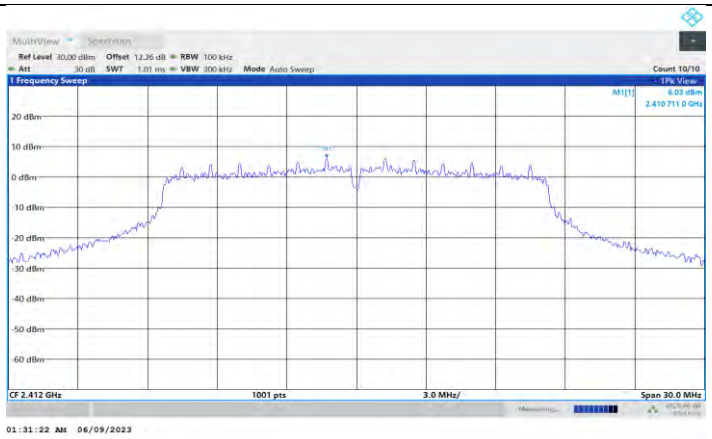

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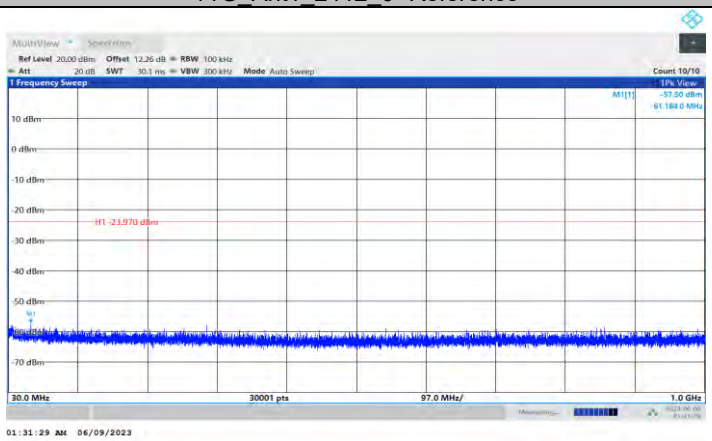

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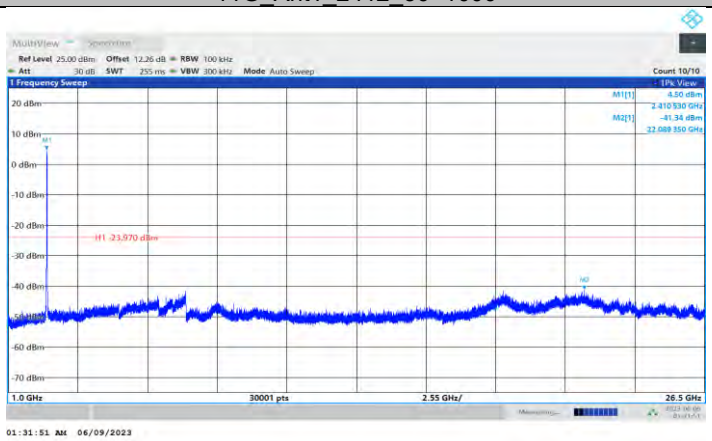

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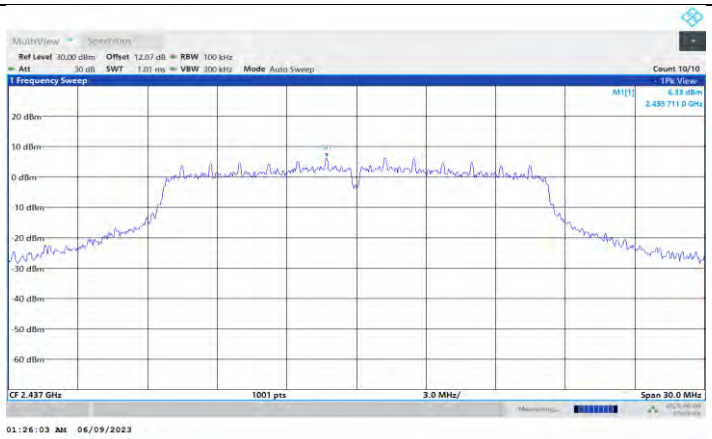

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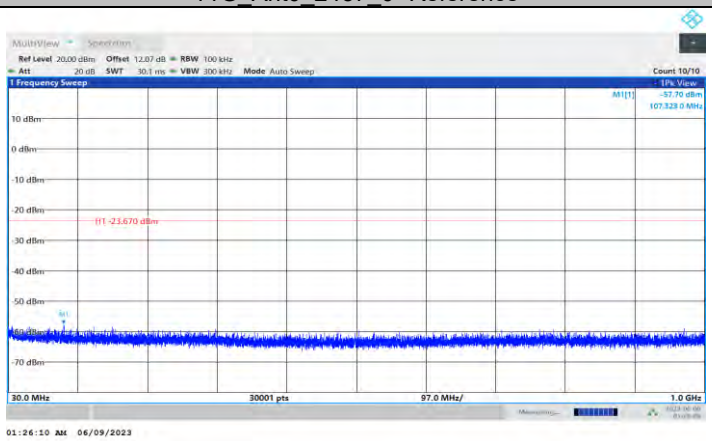

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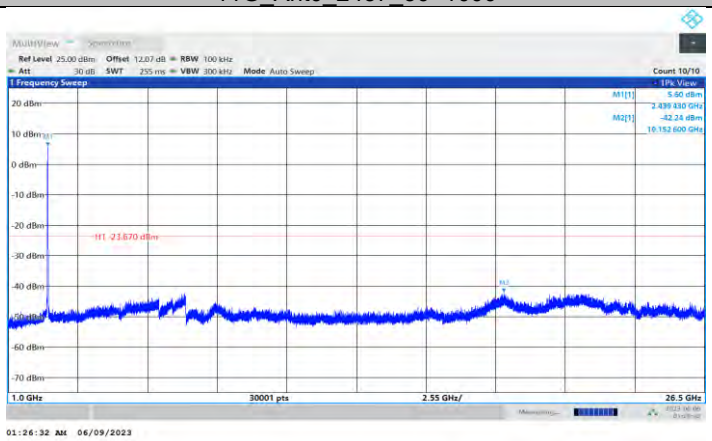

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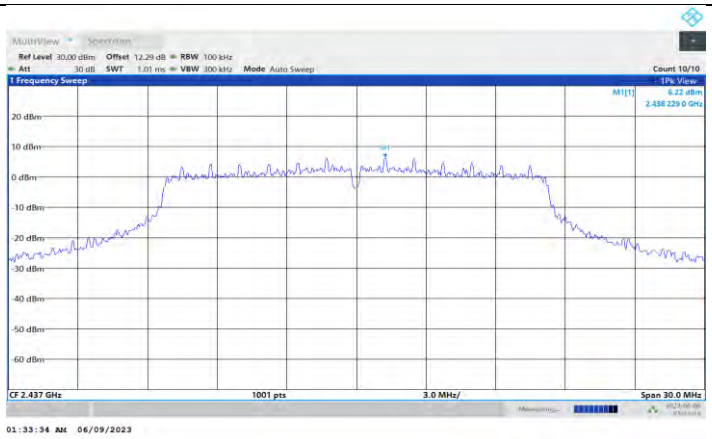

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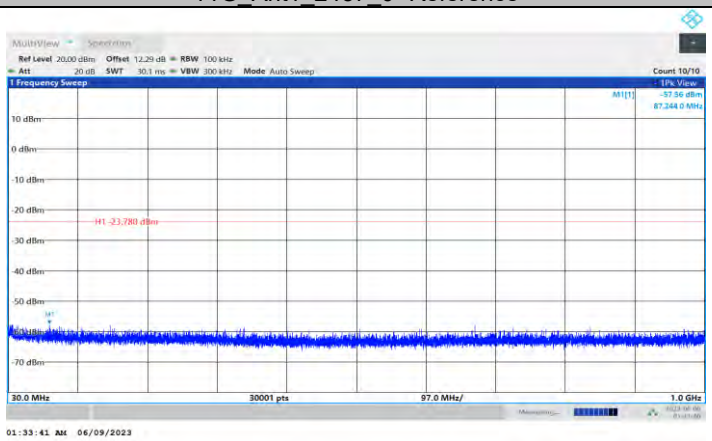

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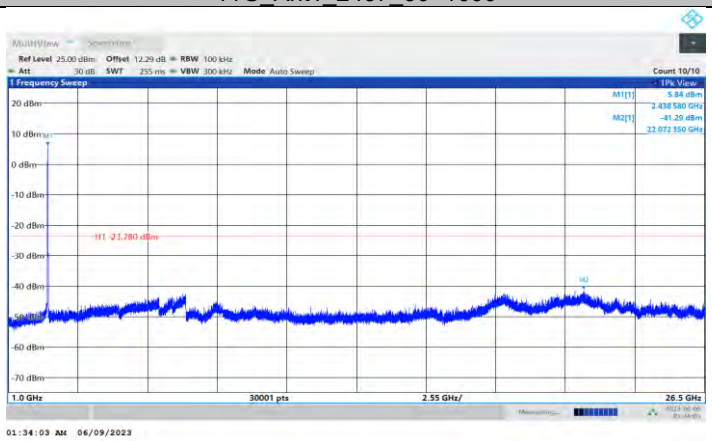

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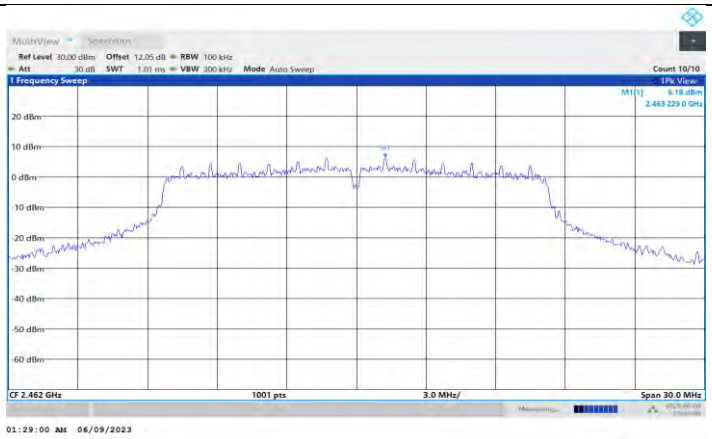

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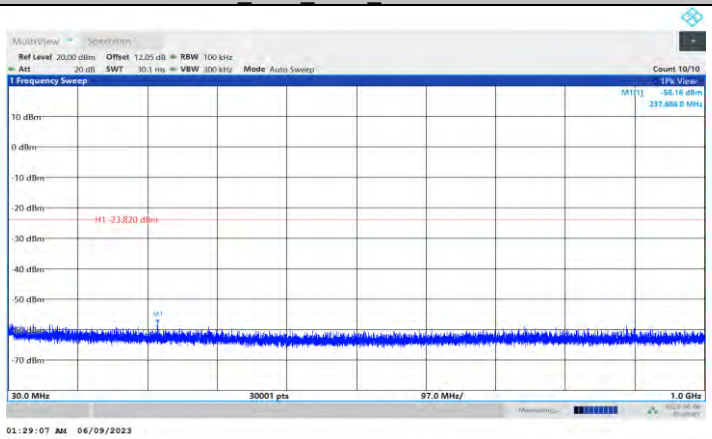

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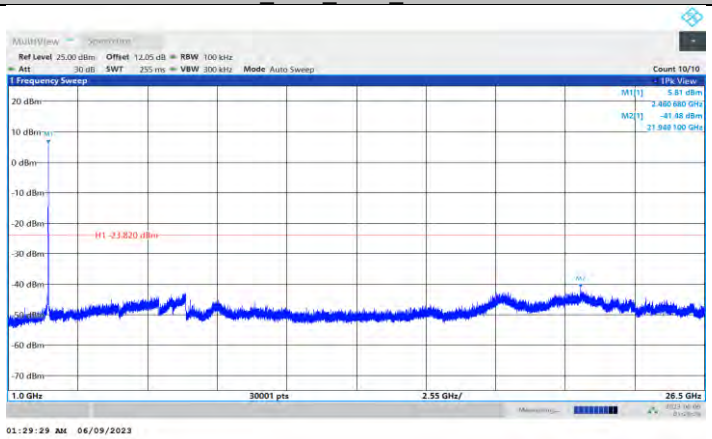

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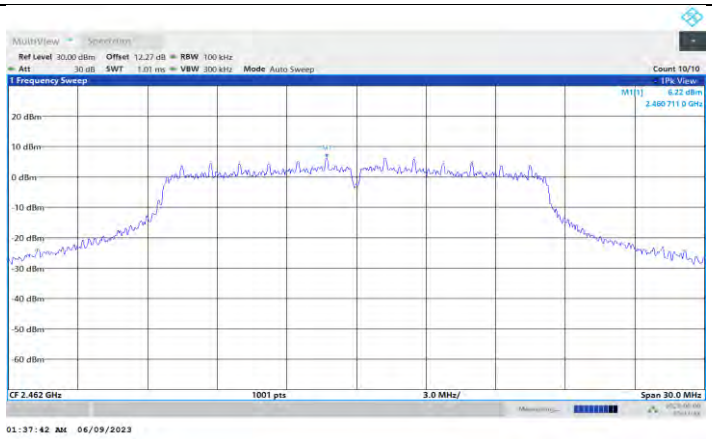

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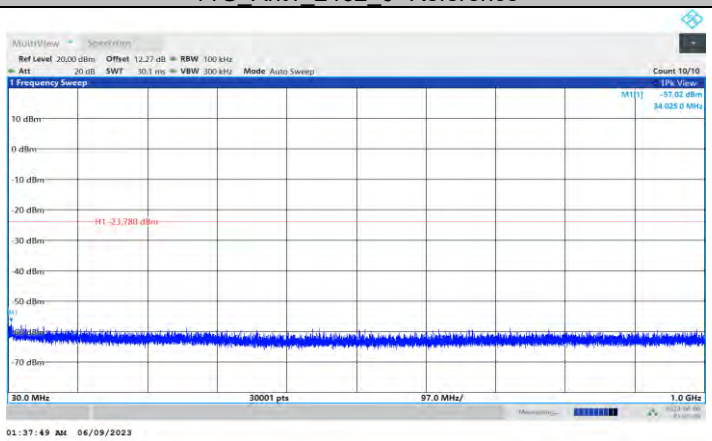

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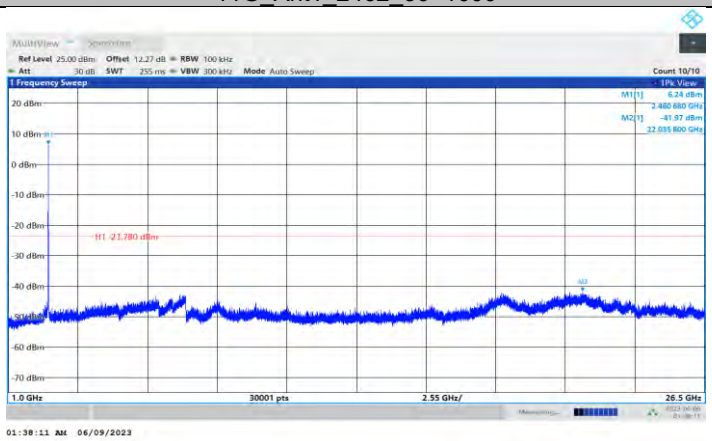

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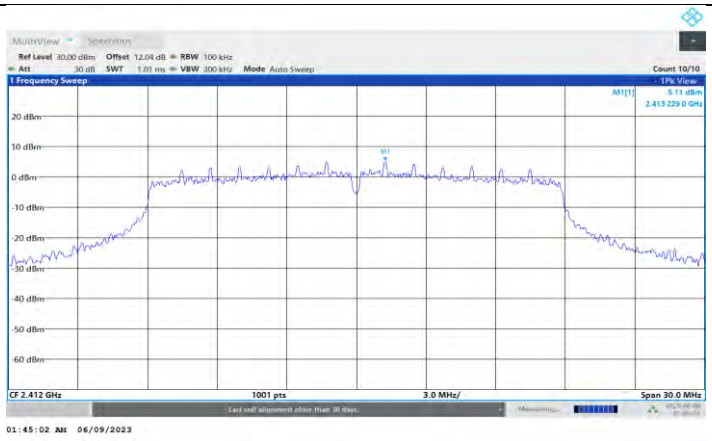

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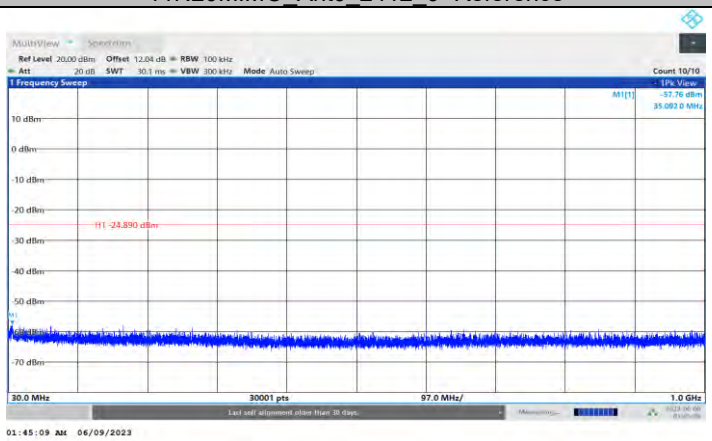

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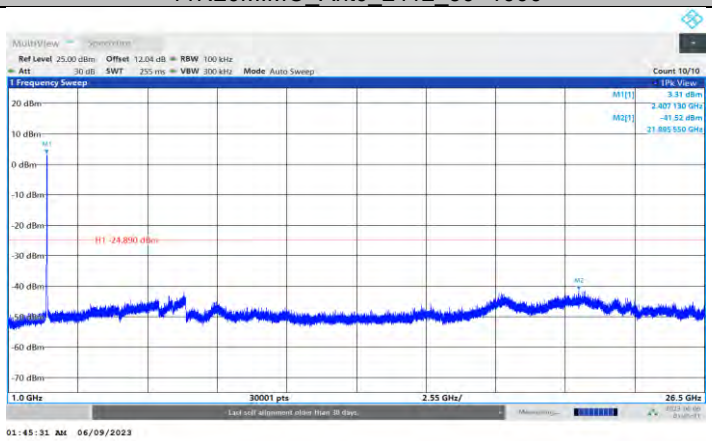

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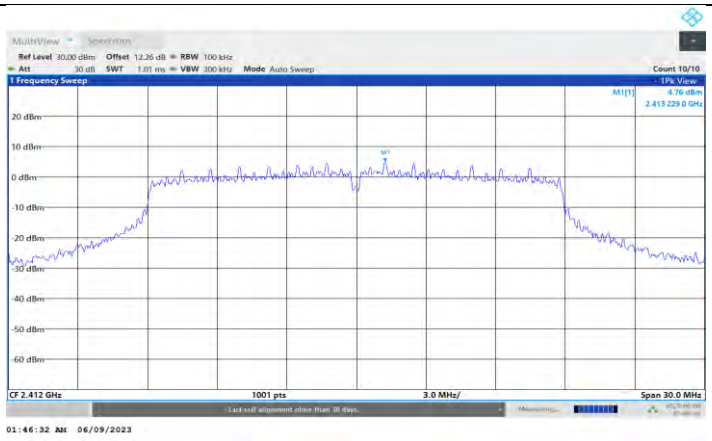

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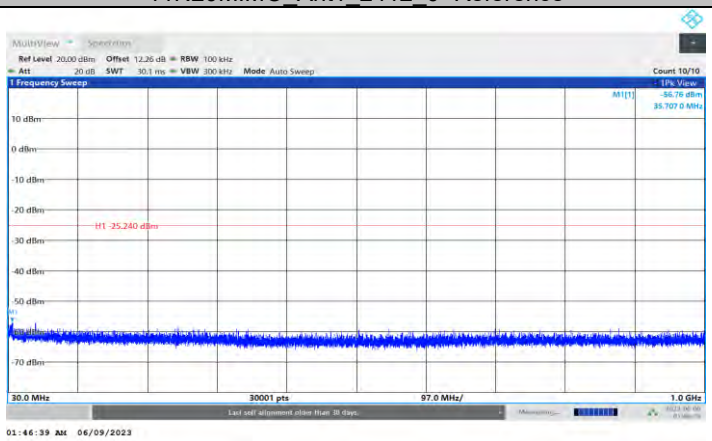

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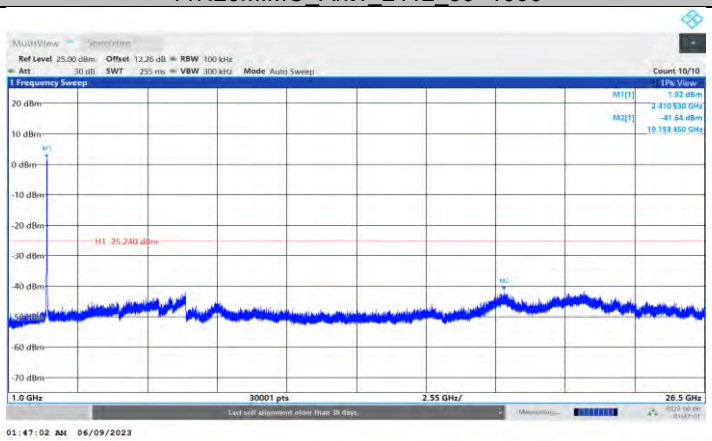

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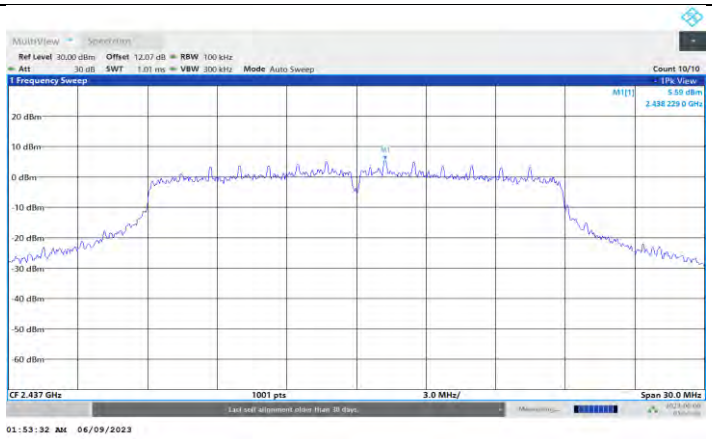

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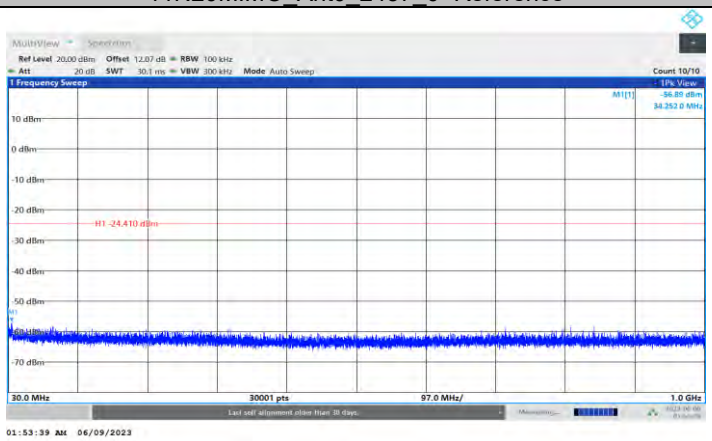

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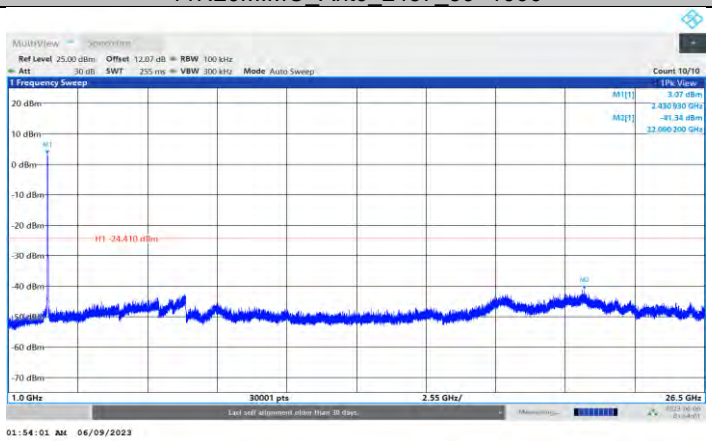

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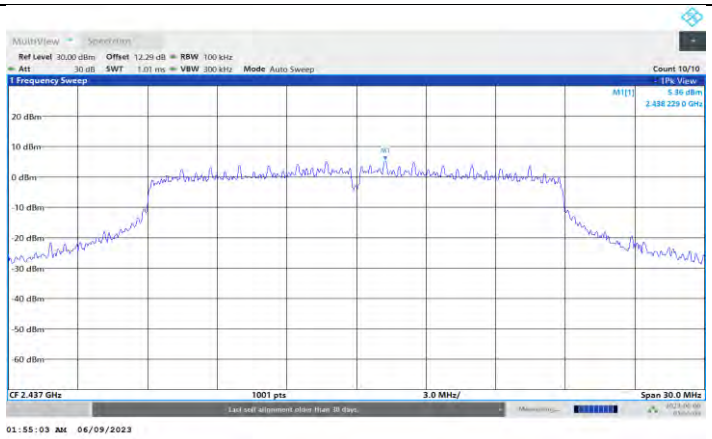

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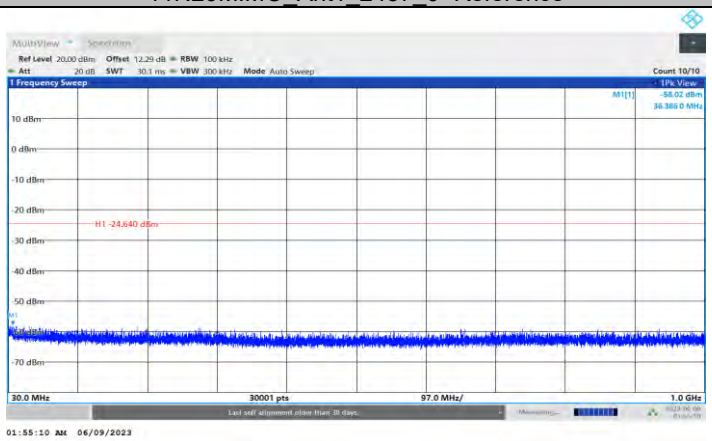

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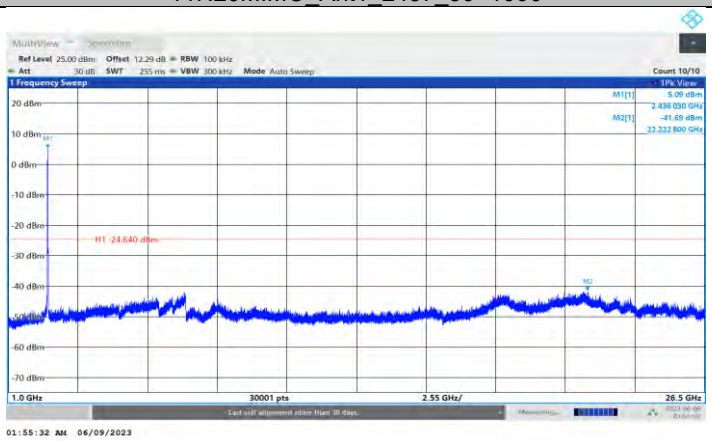

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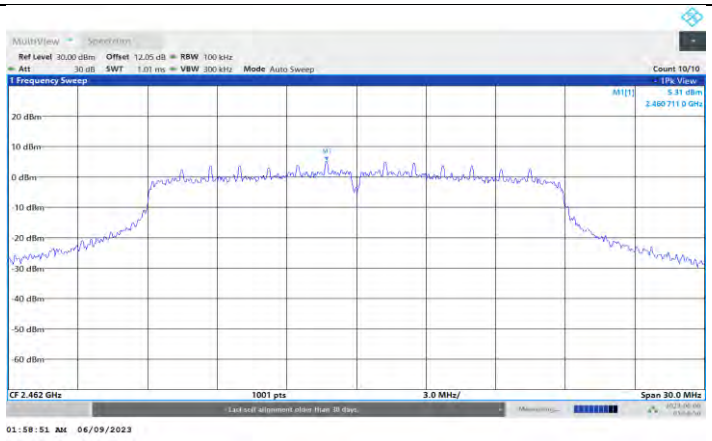

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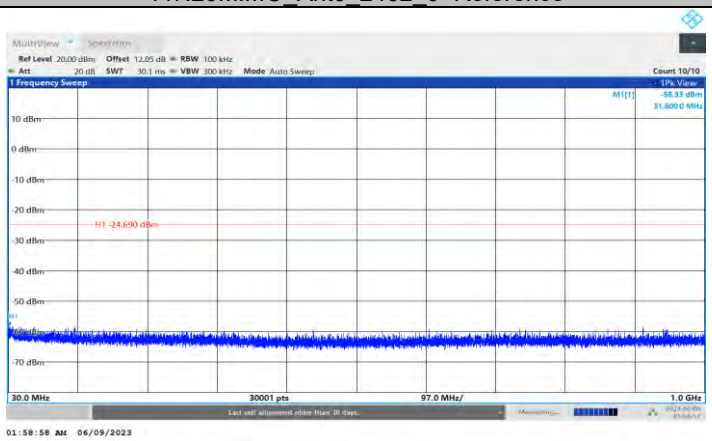

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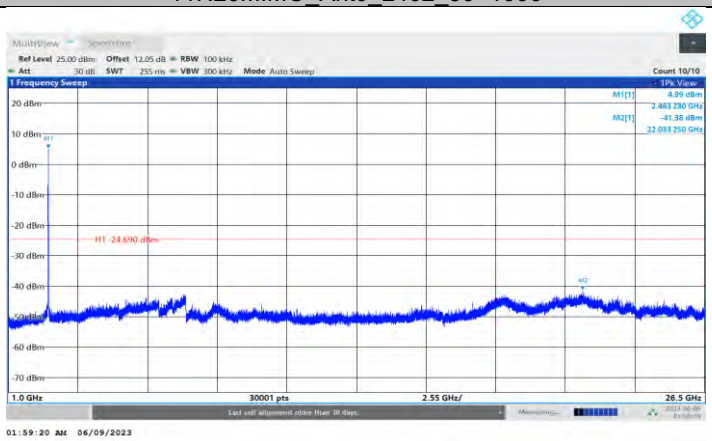

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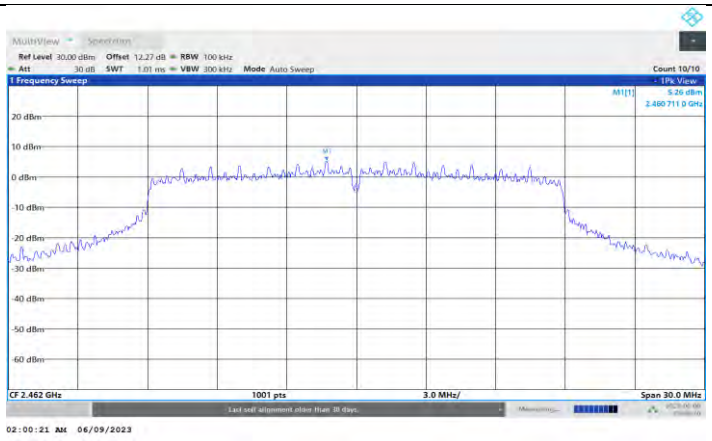

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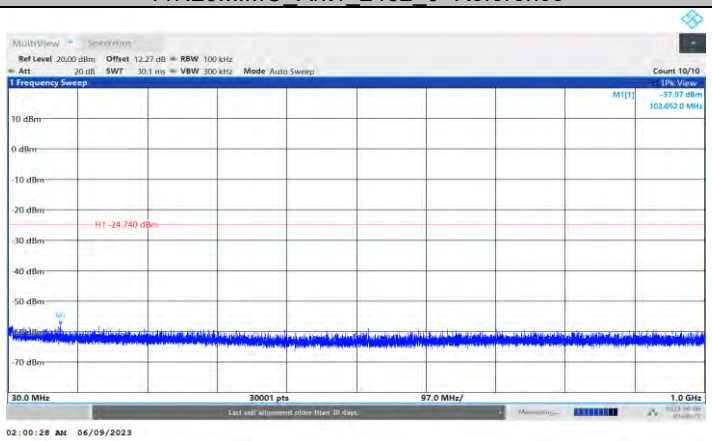

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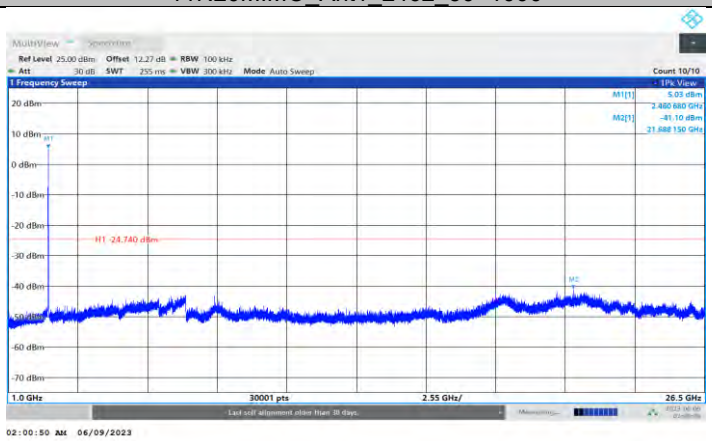

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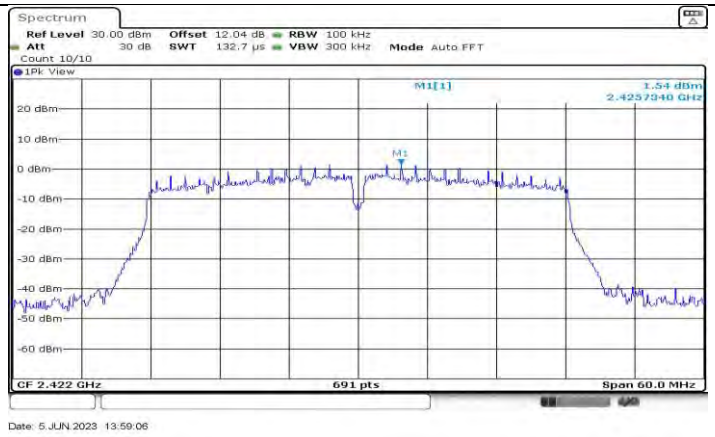

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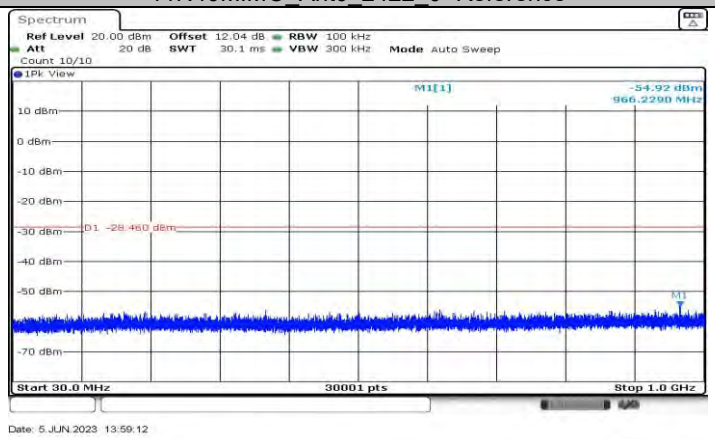

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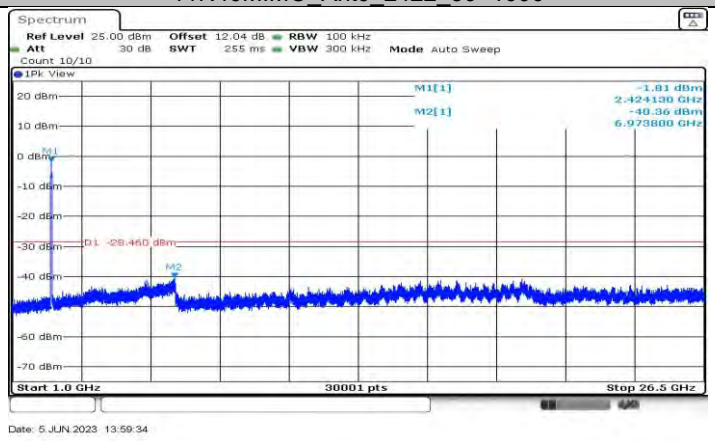

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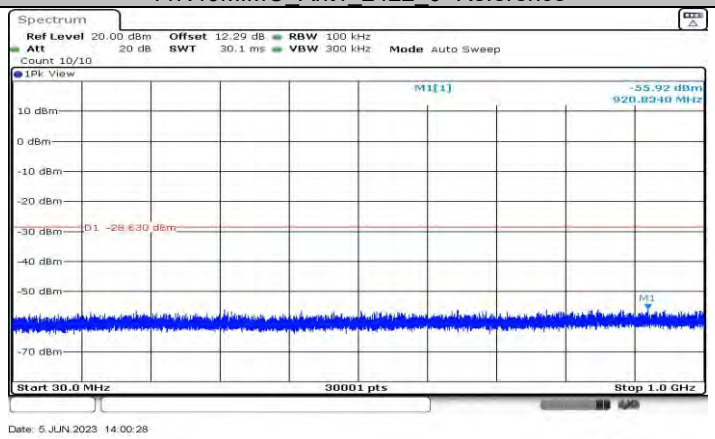

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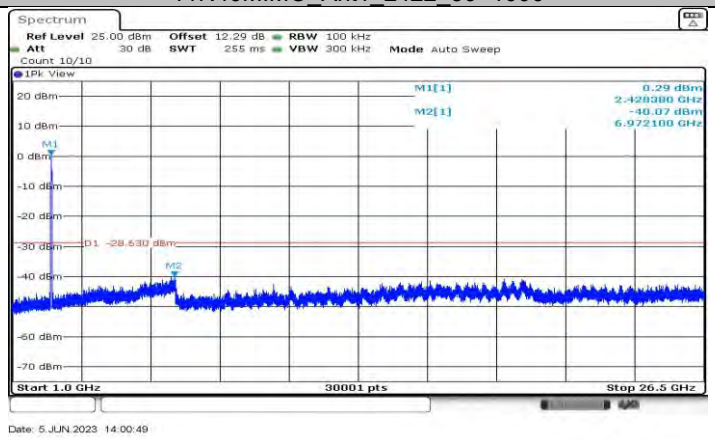

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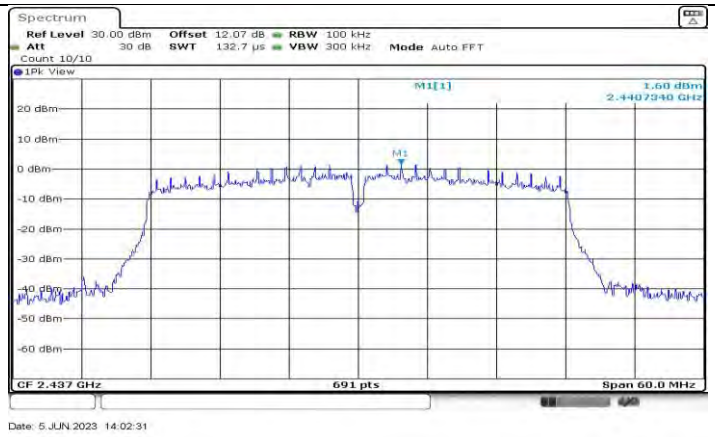

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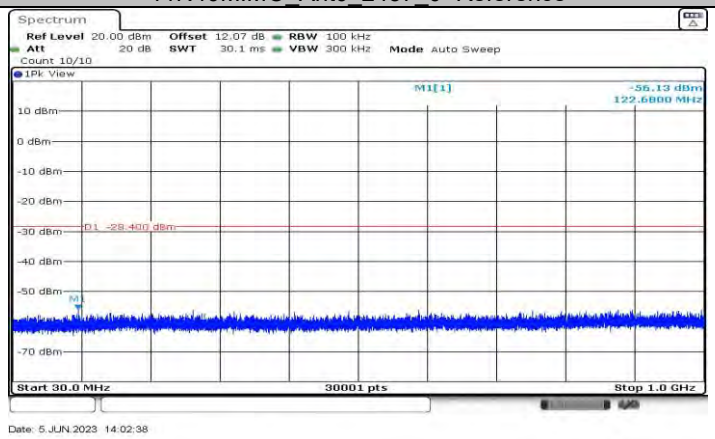

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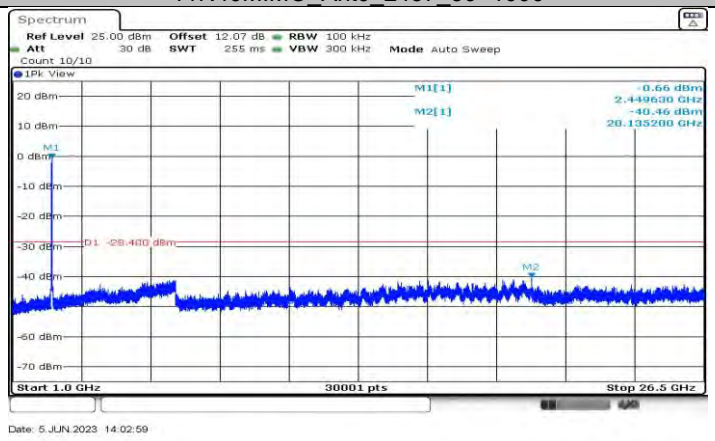

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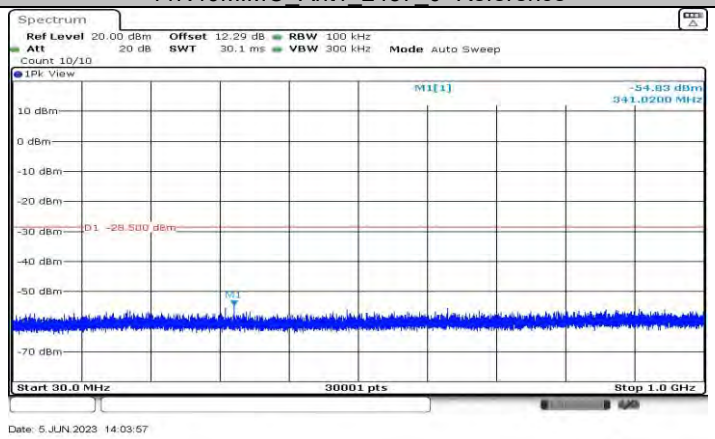

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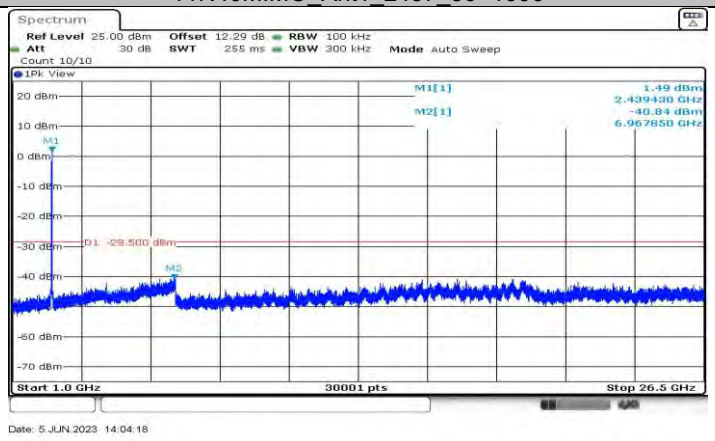

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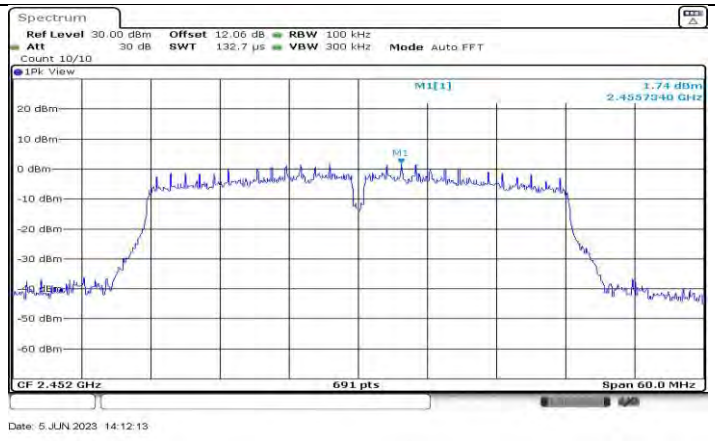

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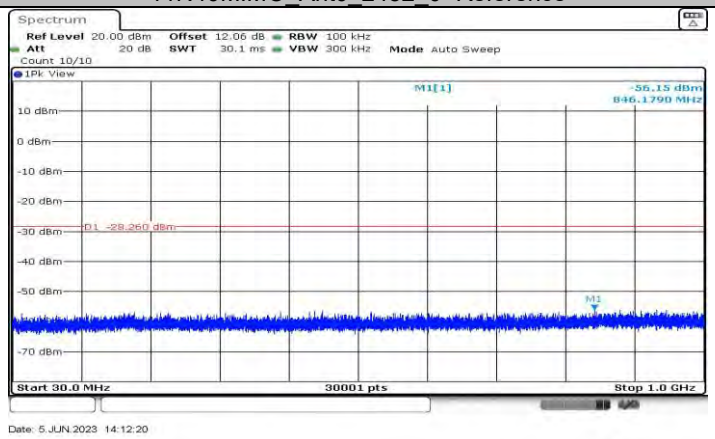

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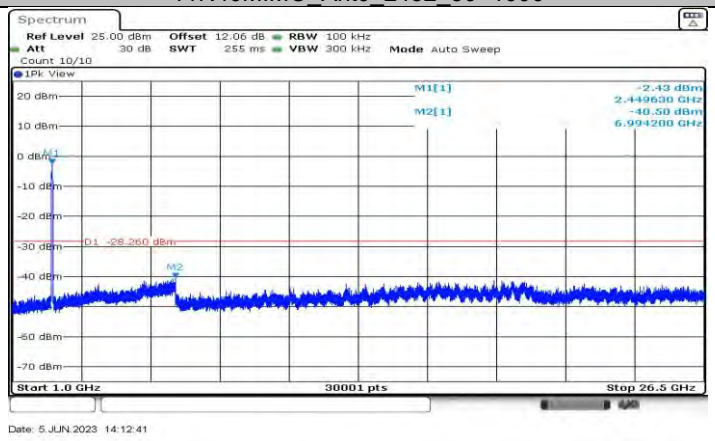

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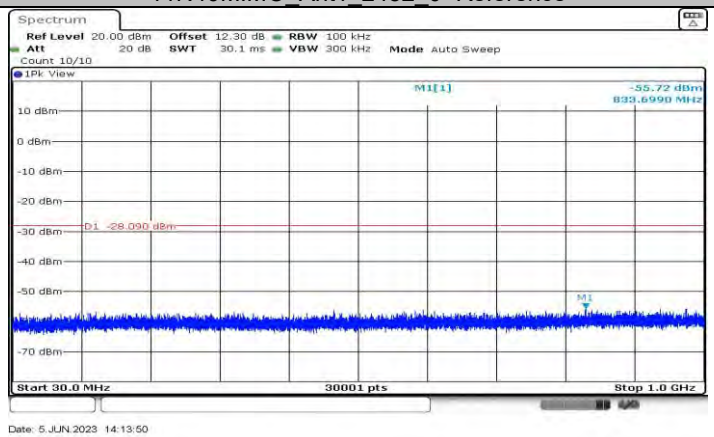

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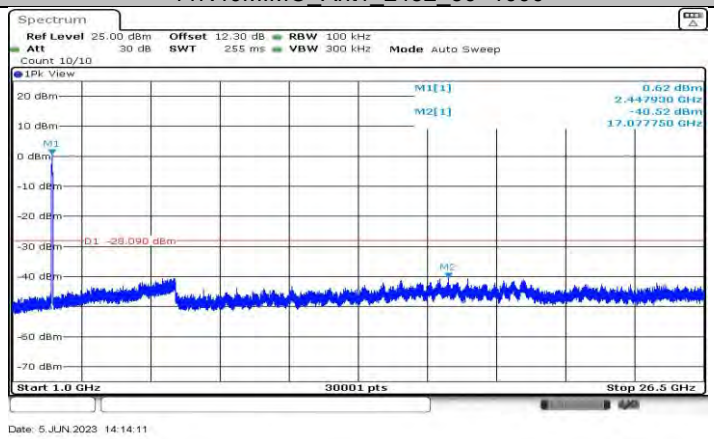

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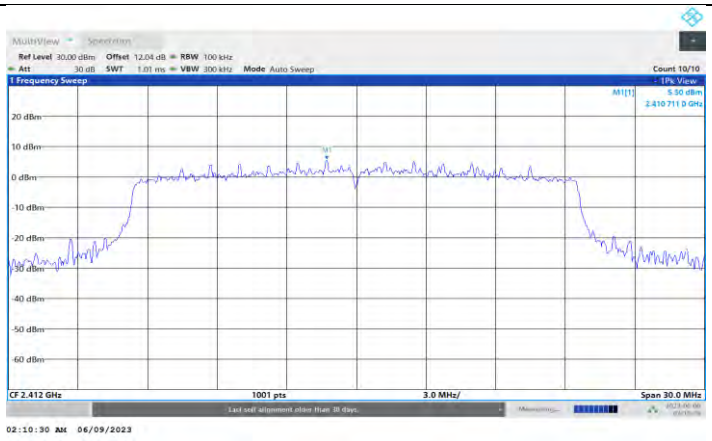

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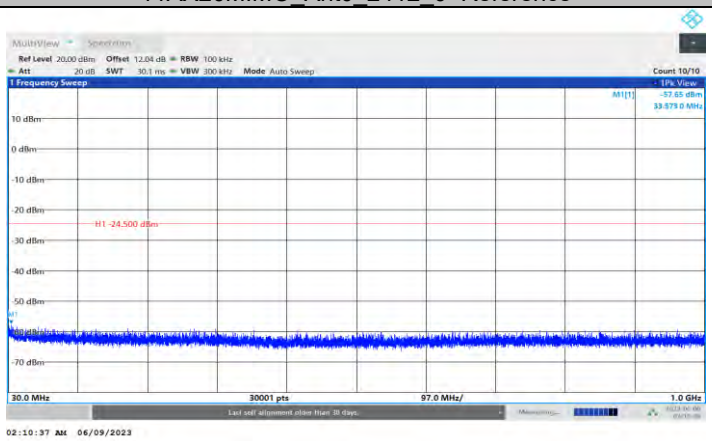

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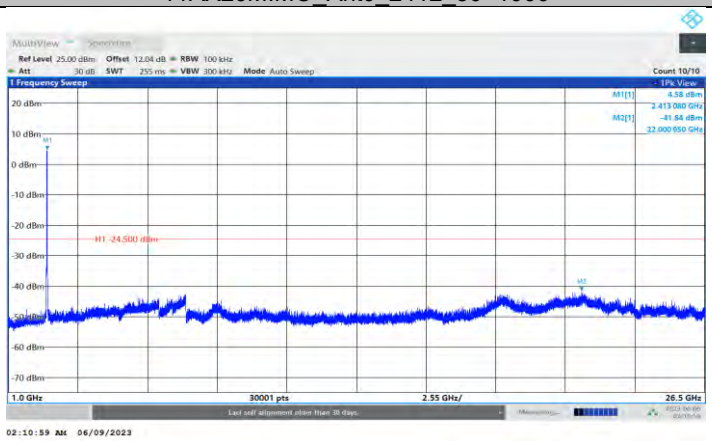

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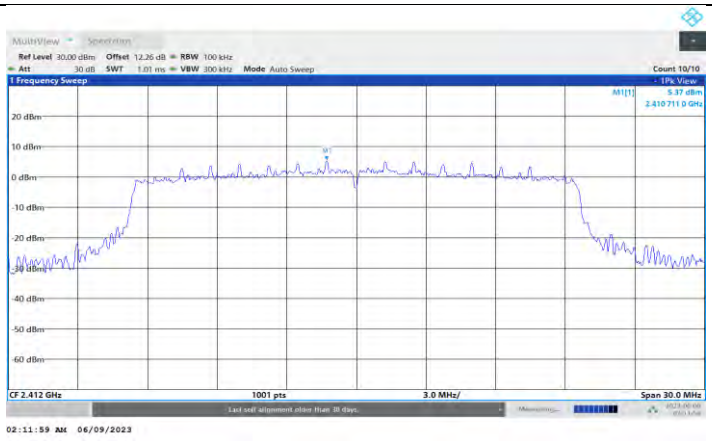

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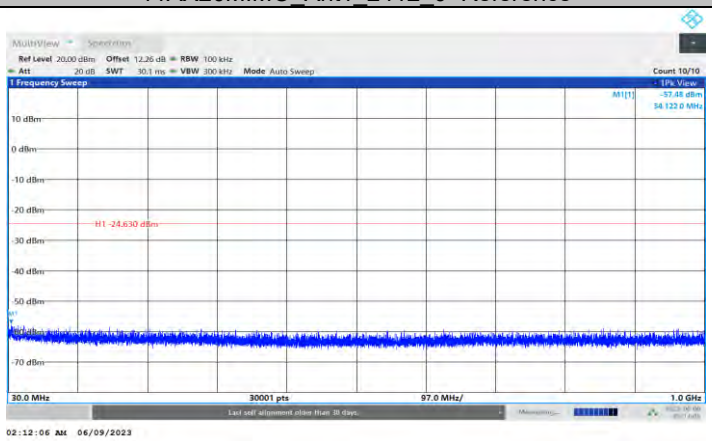

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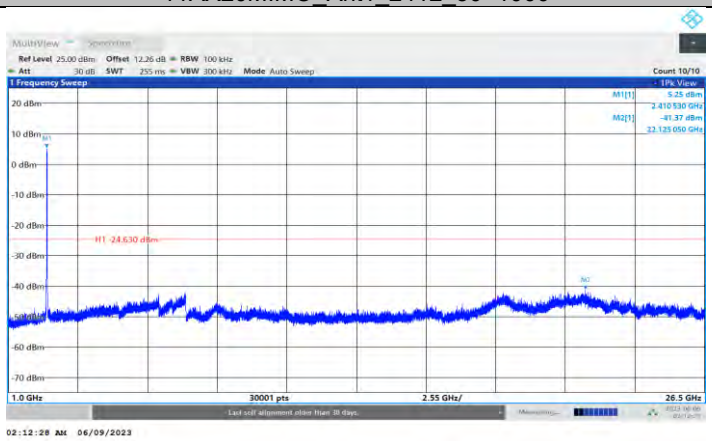

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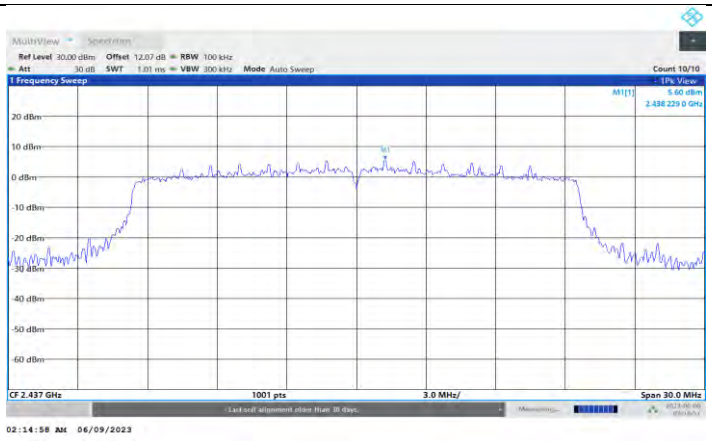

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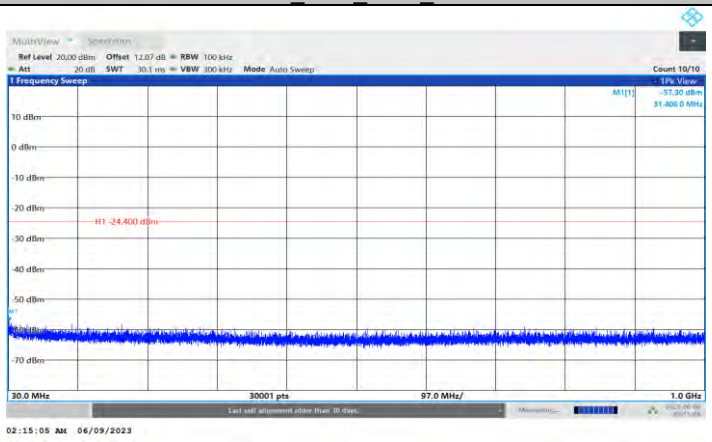

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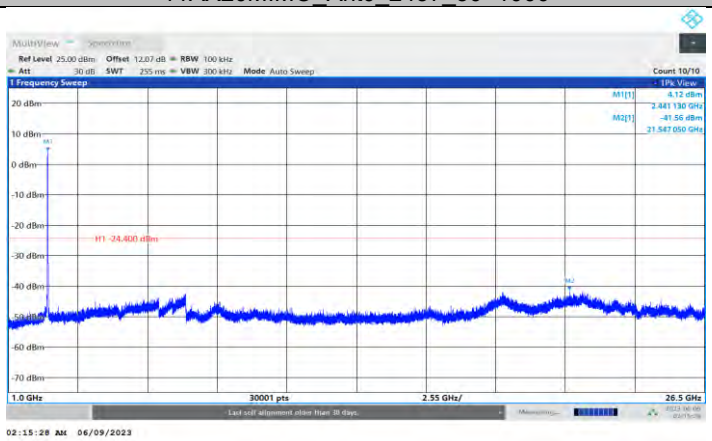

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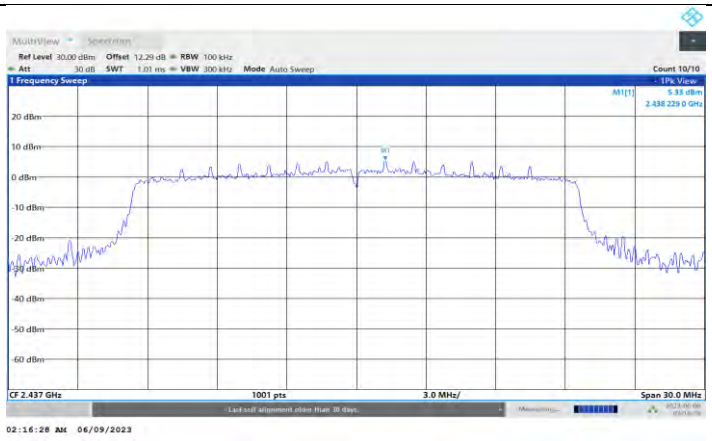
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



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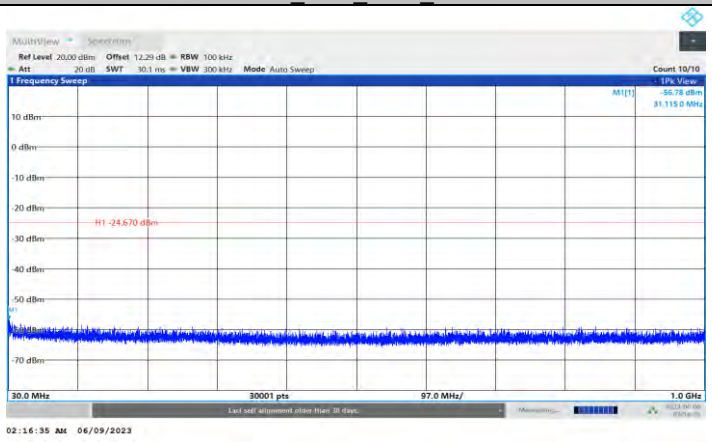

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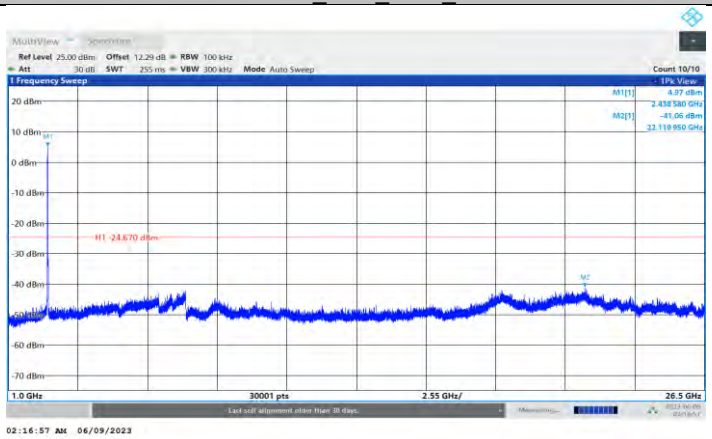

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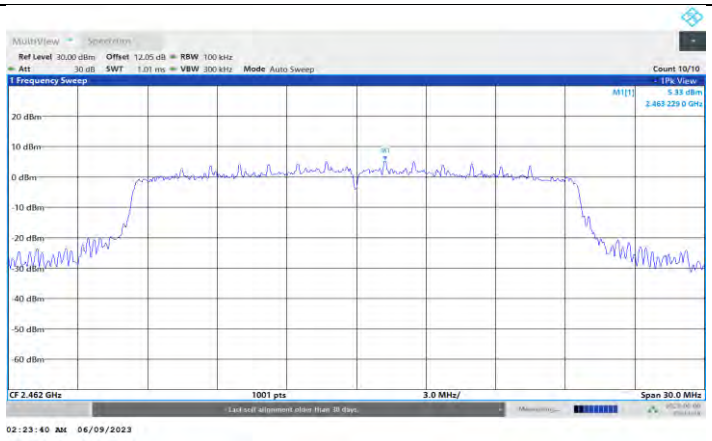

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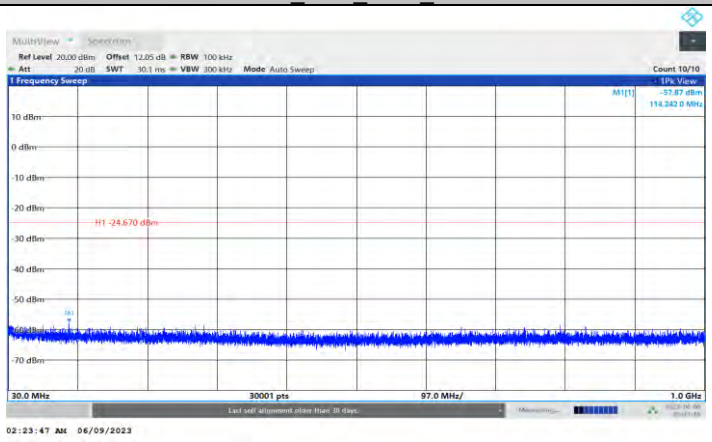

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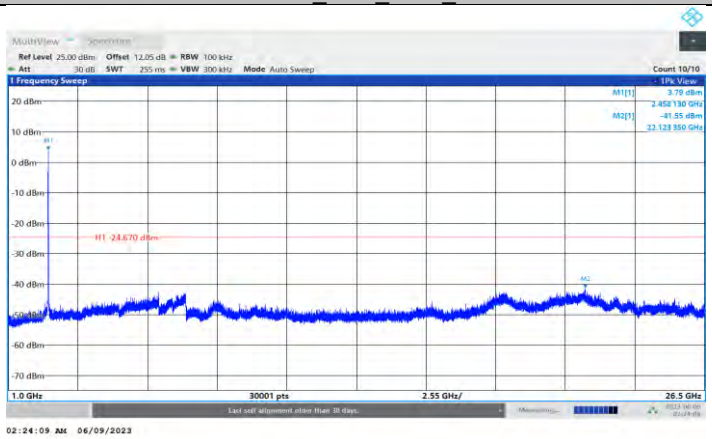

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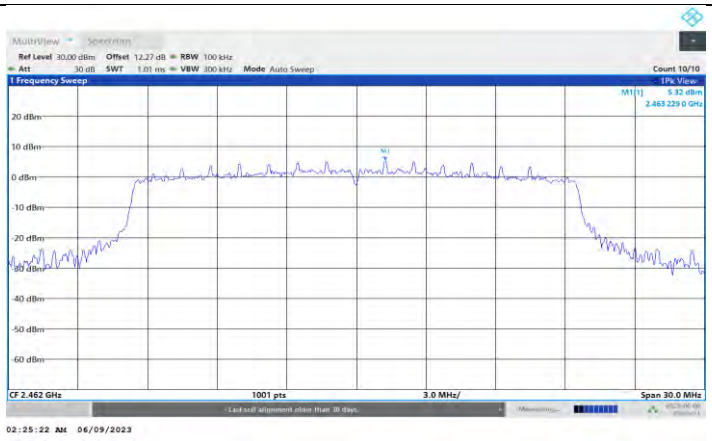

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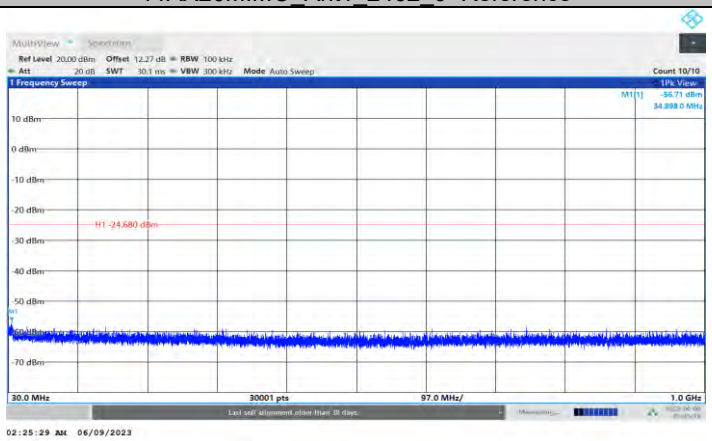

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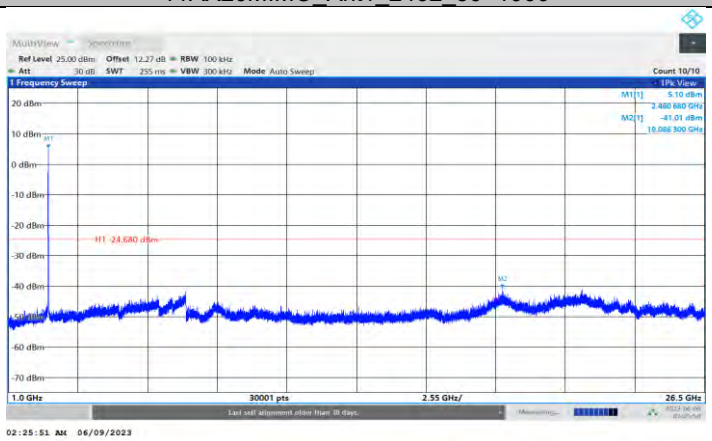

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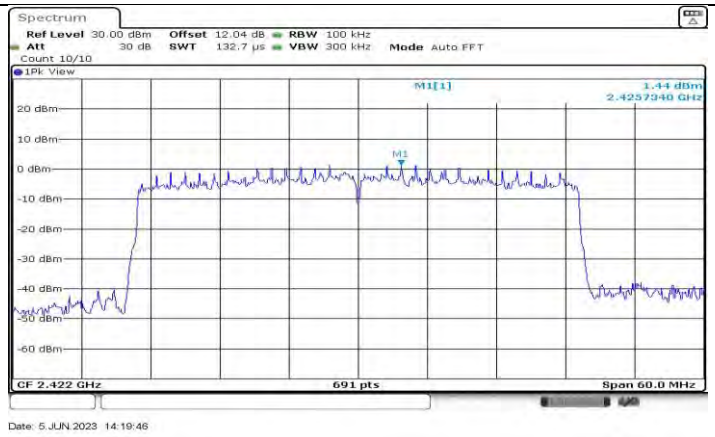

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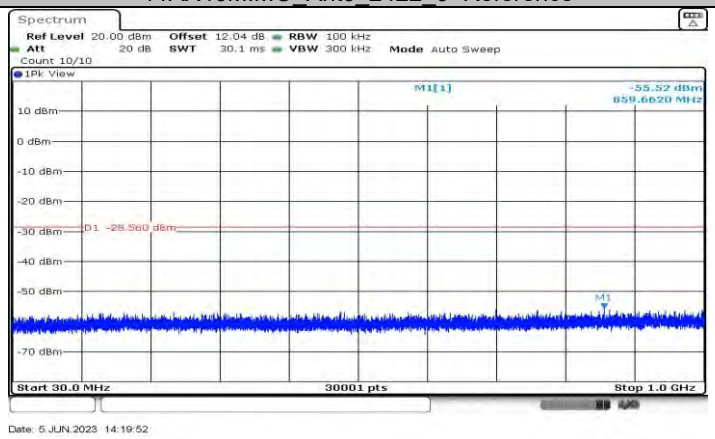

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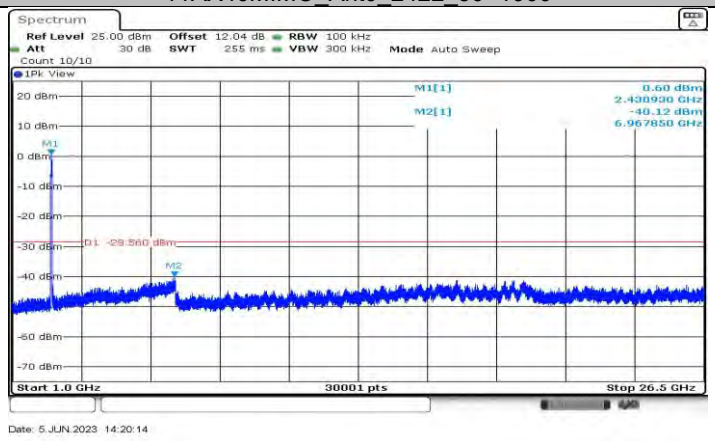

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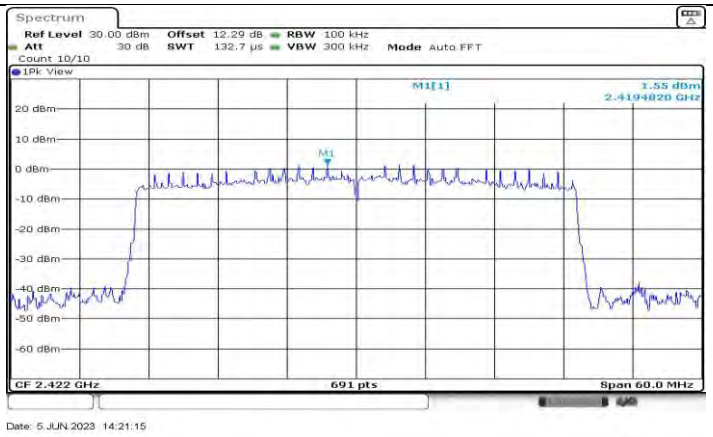

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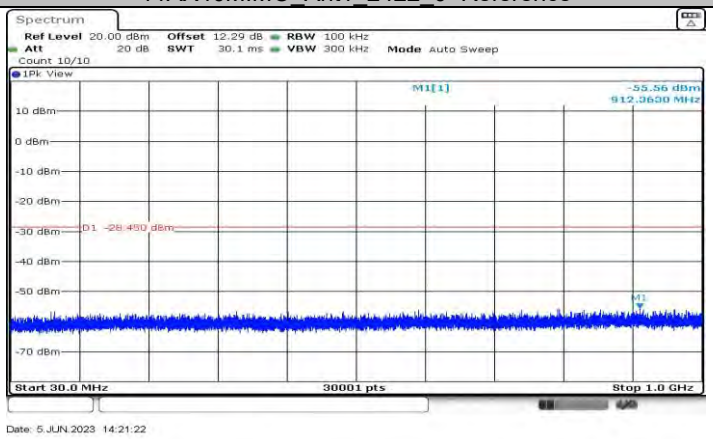

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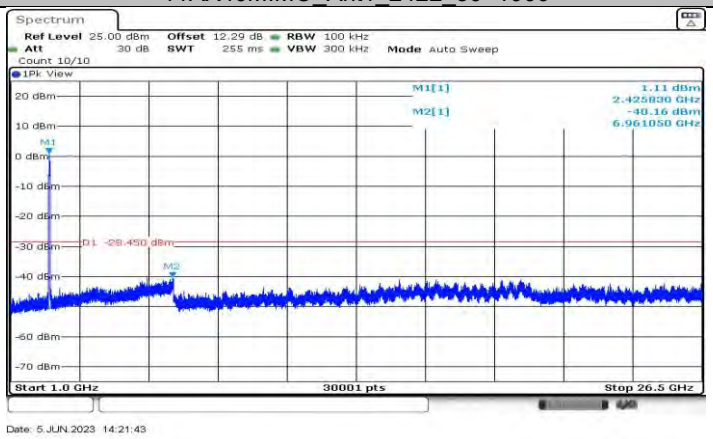

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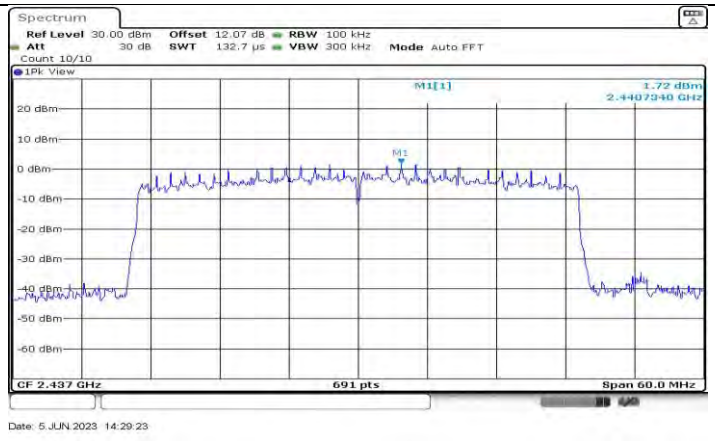

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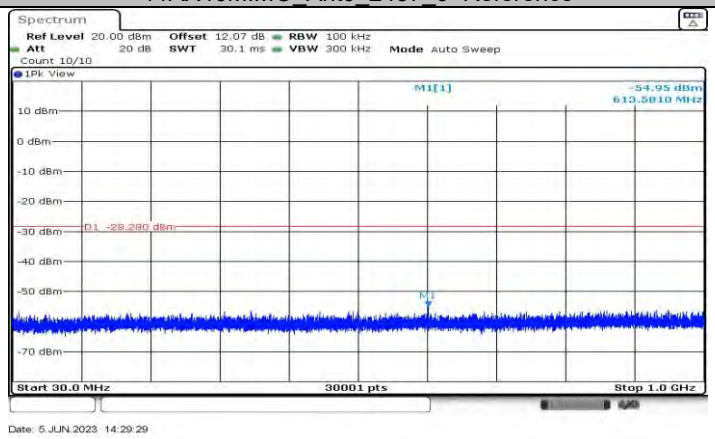

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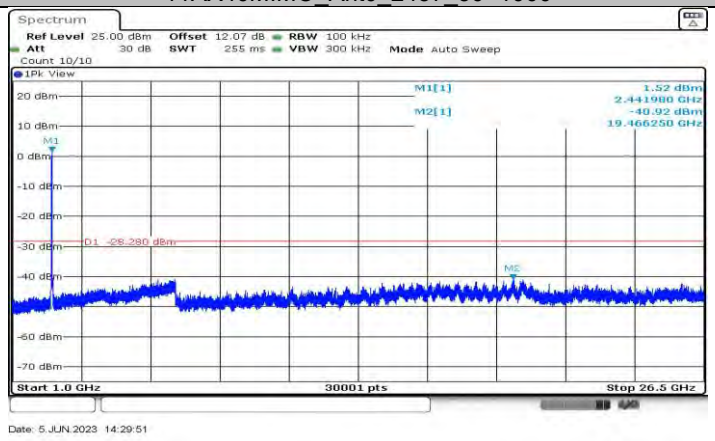

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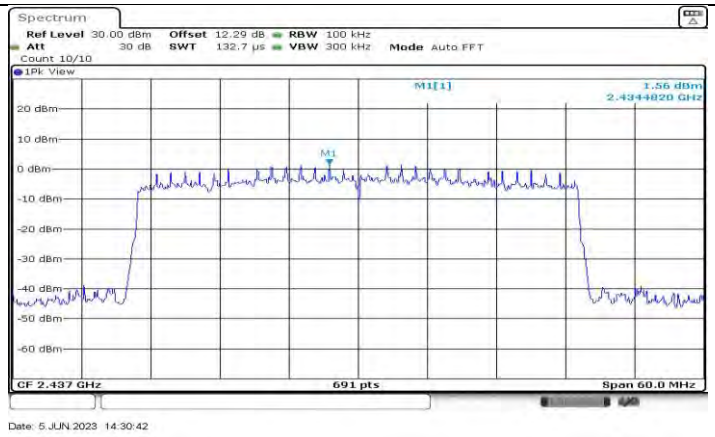

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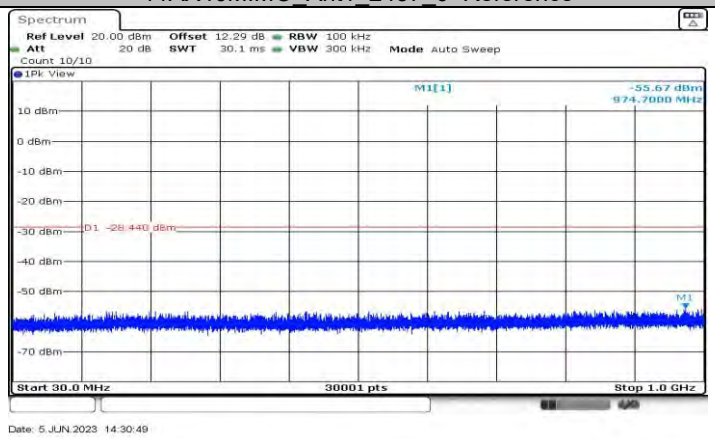

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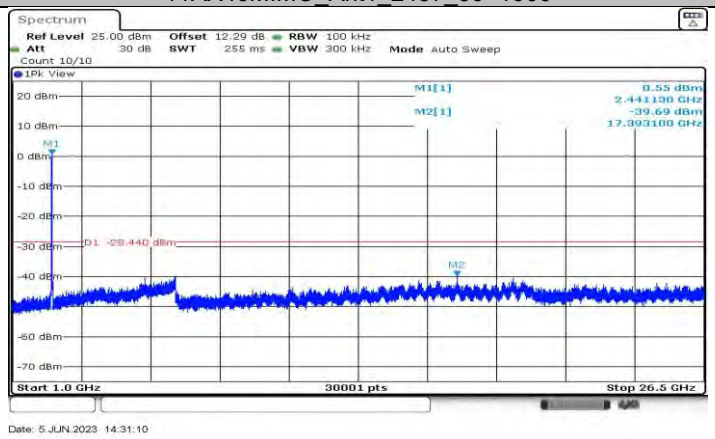

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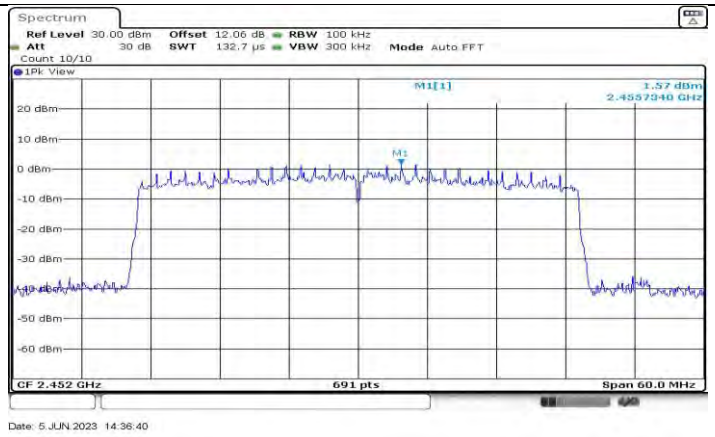

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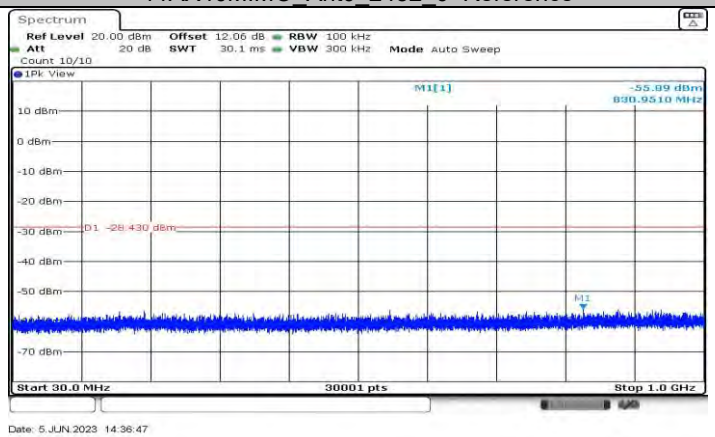

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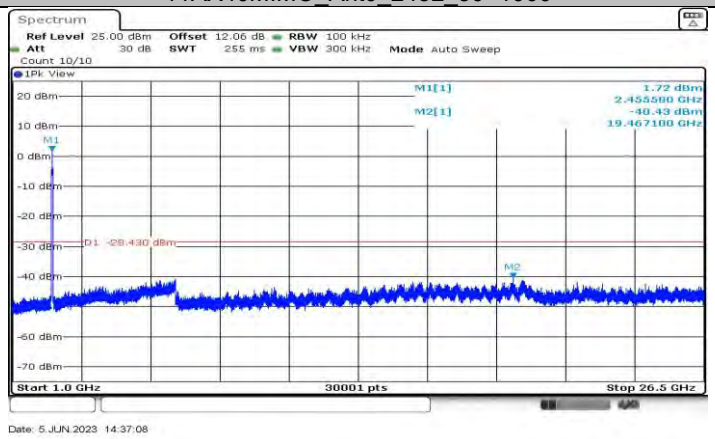

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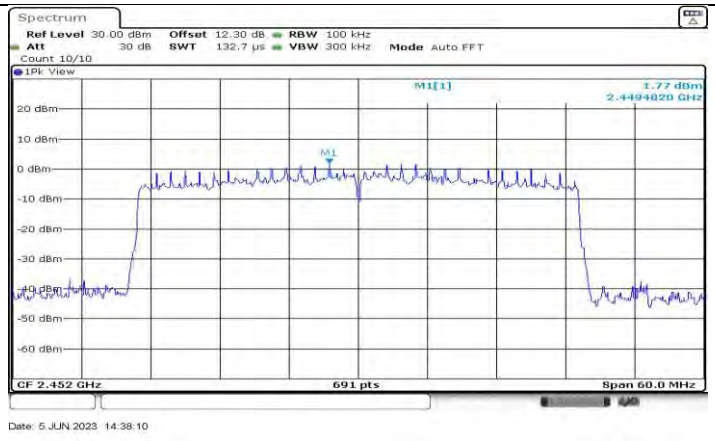

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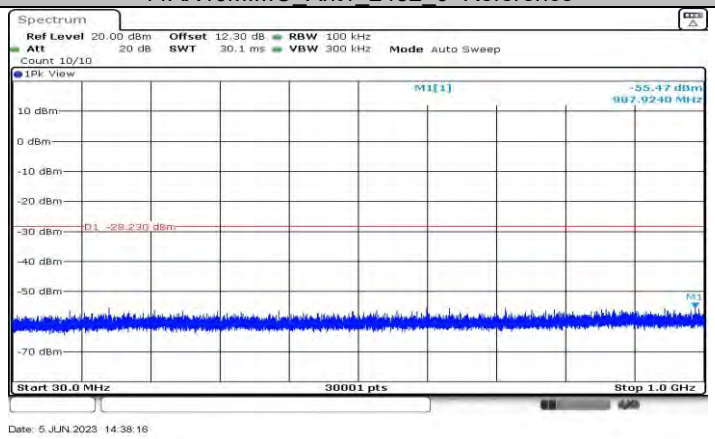

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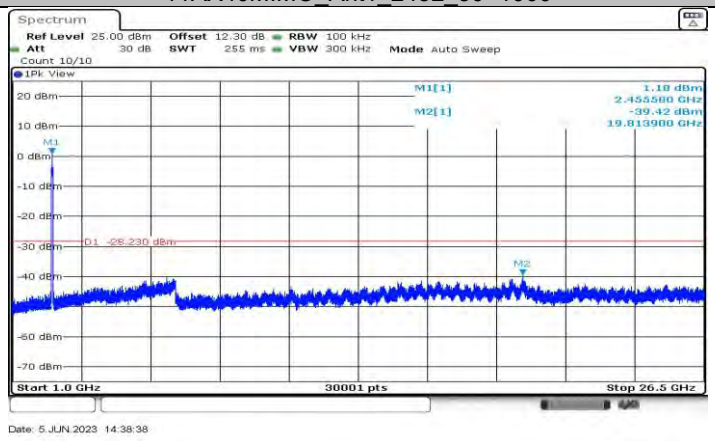

11AX40MIMO_Ant1_2452_1000~26500

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11.12. APPENDIX F2: CONDUCTED SPURIOUS EMISSION FOR SINGLE PARTIAL RU

11.12.1. Test Result

TestMode	Antenna	Channel	Ru Size	Ru Index	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant0	2412	26Tone	RU0	Reference	9.49	---	PASS
				RU0	30~1000	-48.90	≤-20.51	PASS
				RU0	1000~26500	-39.12	≤-20.51	PASS
	Ant1	2412	26Tone	RU0	Reference	7.63	---	PASS
				RU0	30~1000	-49.22	≤-22.37	PASS
				RU0	1000~26500	-39.06	≤-22.37	PASS
	Ant0	2437	26Tone	RU4	Reference	8.81	---	PASS
				RU4	30~1000	-47.62	≤-21.19	PASS
				RU4	1000~26500	-31.77	≤-21.19	PASS
			52Tone	RU37	Reference	6.68	---	PASS
				RU37	30~1000	-48.28	≤-23.32	PASS
				RU37	1000~26500	-33.07	≤-23.32	PASS
			106Tone	RU53	Reference	3.91	---	PASS
				RU53	30~1000	-58.10	≤-26.09	PASS
				RU53	1000~26500	-49.18	≤-26.09	PASS
	Ant1	2437	26Tone	RU4	Reference	8.89	---	PASS
				RU4	30~1000	-47.15	≤-21.11	PASS
				RU4	1000~26500	-32.14	≤-21.11	PASS
			52Tone	RU37	Reference	7.35	---	PASS
				RU37	30~1000	-47.56	≤-22.65	PASS
				RU37	1000~26500	-32.11	≤-22.65	PASS
			106Tone	RU53	Reference	3.77	---	PASS
				RU53	30~1000	-59.47	≤-26.23	PASS
				RU53	1000~26500	-48.50	≤-26.23	PASS
	Ant0	2462	26Tone	RU8	Reference	9.56	---	PASS
				RU8	30~1000	-47.35	≤-20.44	PASS
				RU8	1000~26500	-32.50	≤-20.44	PASS
	Ant1	2462	26Tone	RU8	Reference	9.71	---	PASS
				RU8	30~1000	-48.08	≤-20.29	PASS
				RU8	1000~26500	-31.48	≤-20.29	PASS
11AX40MIMO	Ant0	2422	26Tone	RU0	Reference	7.85	---	PASS
				RU0	30~1000	-49.66	≤-22.15	PASS
				RU0	1000~26500	-39.67	≤-22.15	PASS
	Ant1	2422	26Tone	RU0	Reference	4.00	---	PASS
				RU0	30~1000	-48.75	≤-26	PASS

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				RU0	1000~26500	-38.94	≤-26	PASS
	Ant0	2437	26Tone	RU8	Reference	6.26	---	PASS
				RU8	30~1000	-47.57	≤-23.74	PASS
				RU8	1000~26500	-32.50	≤-23.74	PASS
			52Tone	RU37	Reference	4.84	---	PASS
				RU37	30~1000	-47.51	≤-25.16	PASS
				RU37	1000~26500	-32.43	≤-25.16	PASS
			106Tone	RU53	Reference	2.42	---	PASS
				RU53	30~1000	-48.33	≤-27.58	PASS
				RU53	1000~26500	-32.72	≤-27.58	PASS
			242Tone	RU61	Reference	0.95	---	PASS
				RU61	30~1000	-47.75	≤-29.05	PASS
				RU61	1000~26500	-32.51	≤-29.05	PASS
	Ant1	2437	26Tone	RU8	Reference	7.95	---	PASS
				RU8	30~1000	-47.58	≤-22.05	PASS
				RU8	1000~26500	-32.26	≤-22.05	PASS
			52Tone	RU37	Reference	4.78	---	PASS
				RU37	30~1000	-47.22	≤-25.22	PASS
				RU37	1000~26500	-31.81	≤-25.22	PASS
			106Tone	RU53	Reference	2.33	---	PASS
				RU53	30~1000	-47.78	≤-27.67	PASS
				RU53	1000~26500	-32.22	≤-27.67	PASS
			242Tone	RU61	Reference	1.40	---	PASS
				RU61	30~1000	-47.13	≤-28.6	PASS
				RU61	1000~26500	-32.33	≤-28.6	PASS
	Ant0	2452	26Tone	RU17	Reference	6.78	---	PASS
				RU17	30~1000	-48.20	≤-23.22	PASS
				RU17	1000~26500	-32.66	≤-23.22	PASS
	Ant1	2452	26Tone	RU17	Reference	6.82	---	PASS
				RU17	30~1000	-47.03	≤-23.18	PASS
				RU17	1000~26500	-32.46	≤-23.18	PASS

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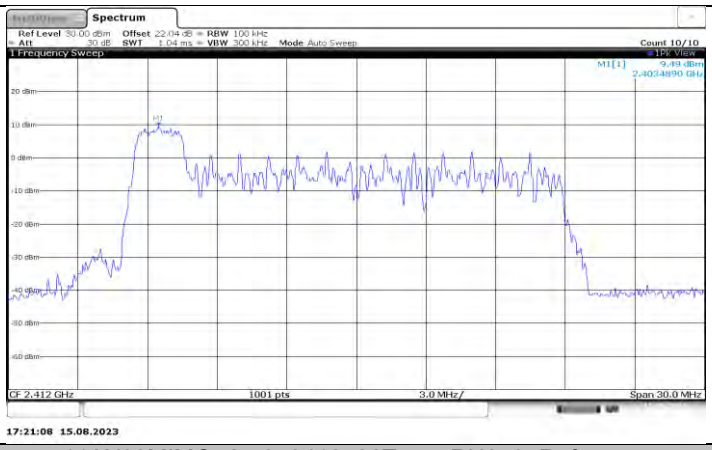
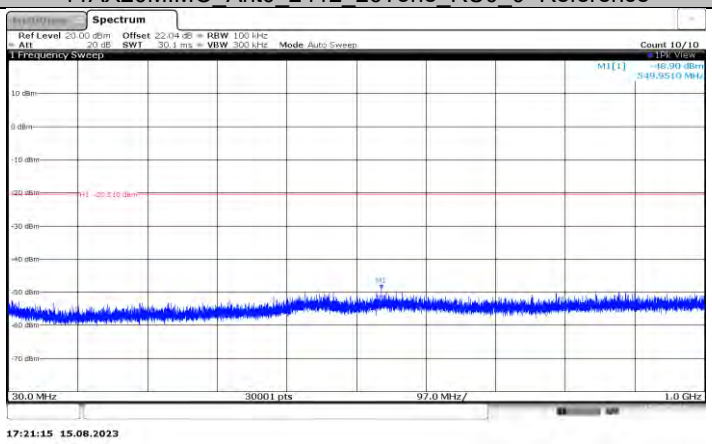
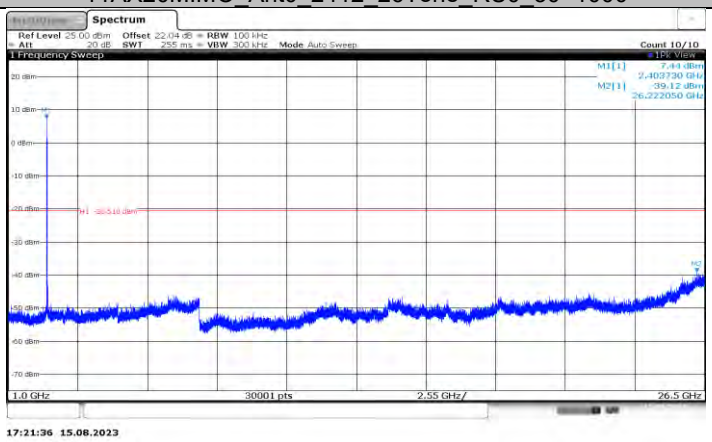
11.12.2. Test Graphs



11AX20MIMO_Ant0_2412_26Tone_RU0_0~Reference



11AX20MIMO_Ant0_2412_26Tone_RU0_30~1000



11AX20MIMO_Ant0_2412_26Tone_RU0_1000~26500

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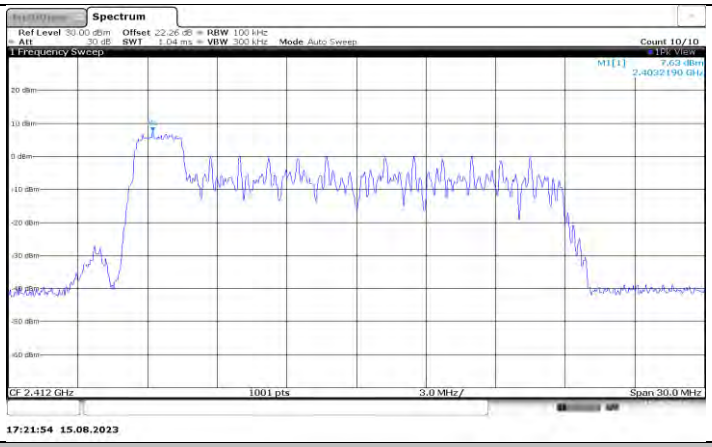
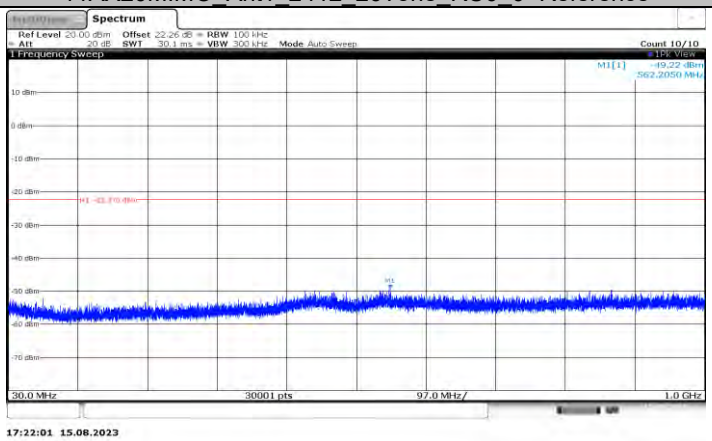


11AX20MIMO_Ant1_2412_26Tone_RU0_0~Reference



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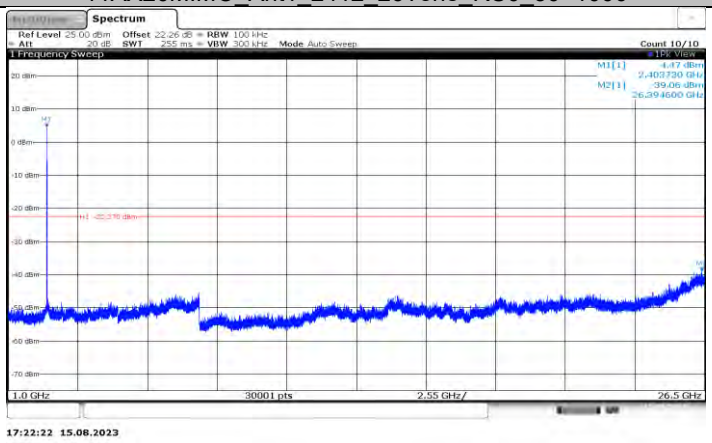

11AX20MIMO_Ant1_2412_26Tone_RU0_1000~26500

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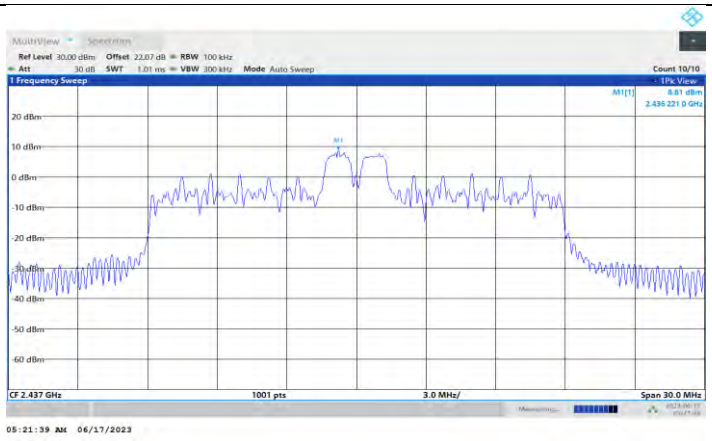

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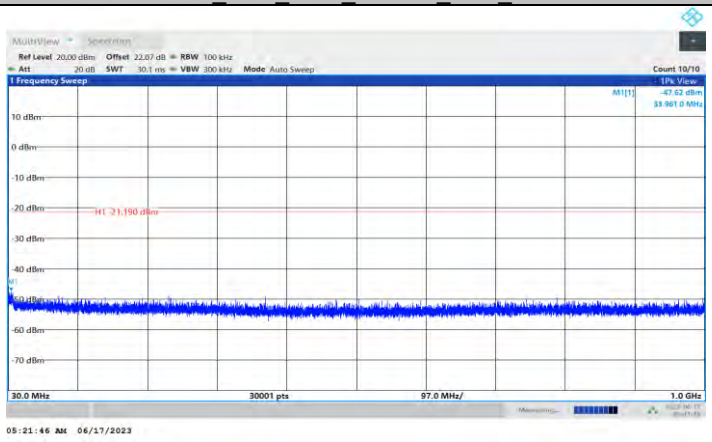

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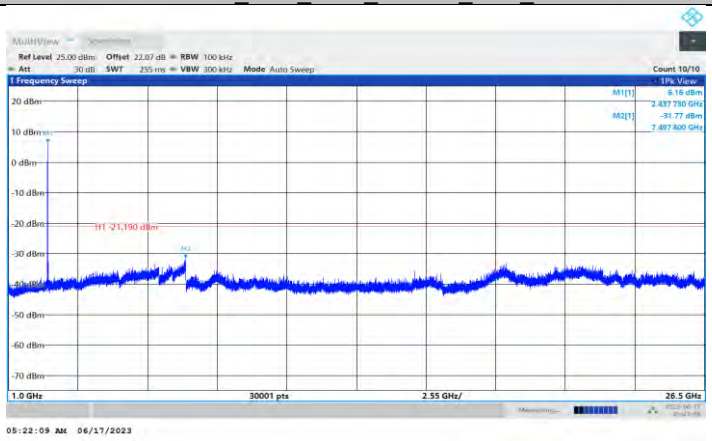

11AX20MIMO_Ant0_2437_26Tone_RU4_1000~26500

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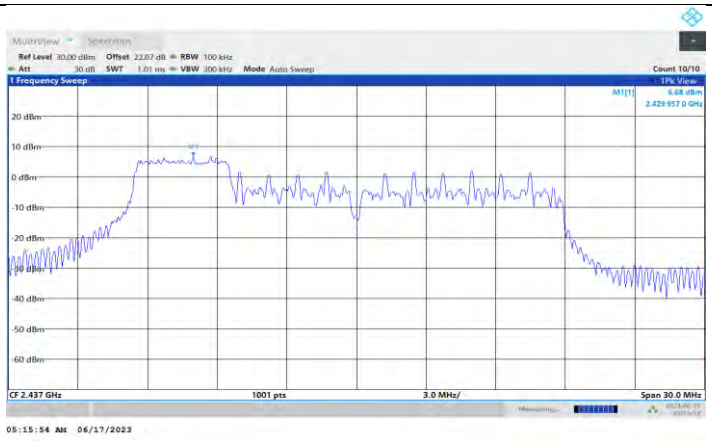
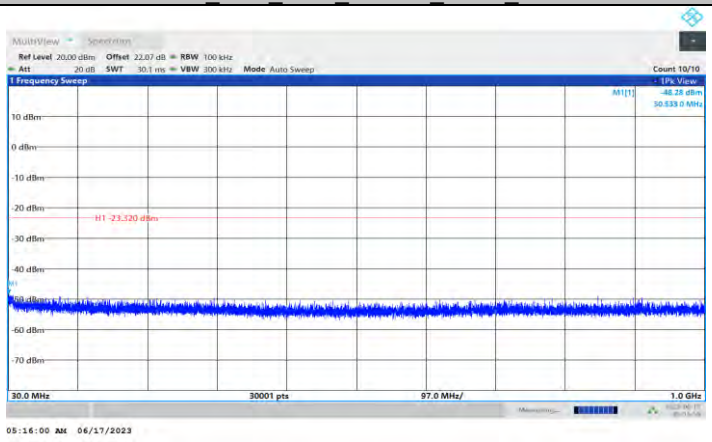
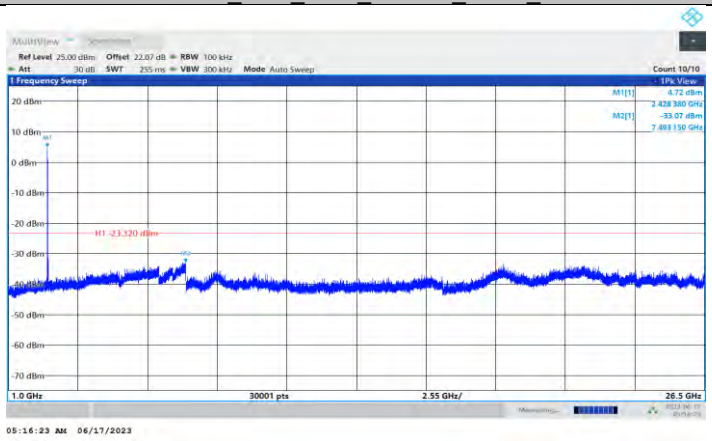


11AX20MIMO_Ant0_2437_52Tone_RU37_0~Reference



11AX20MIMO_Ant0_2437_52Tone_RU37_30~1000



11AX20MIMO_Ant0_2437_52Tone_RU37_1000~26500

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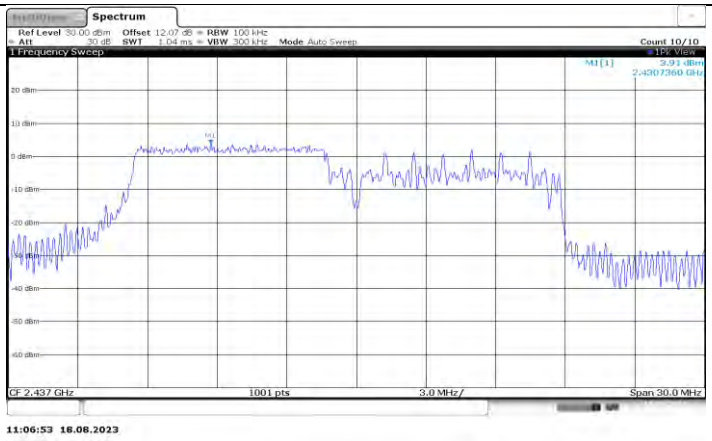
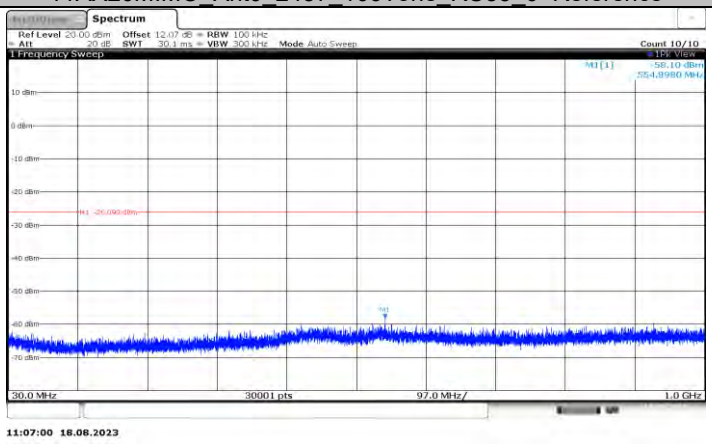
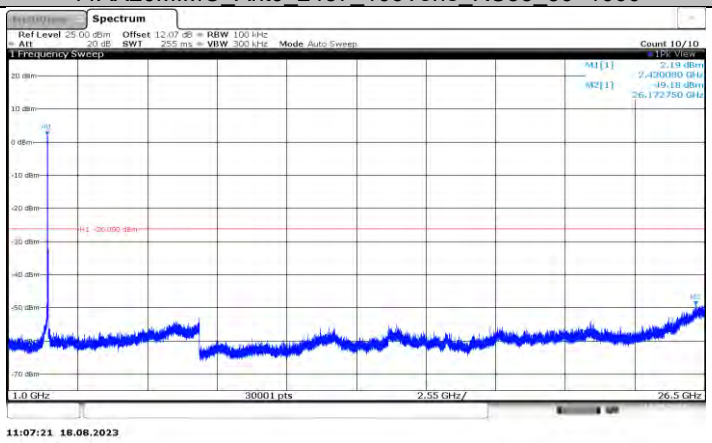


11AX20MIMO_Ant0_2437_106Tone_RU53_0~Reference



11AX20MIMO_Ant0_2437_106Tone_RU53_30~1000



11AX20MIMO_Ant0_2437_106Tone_RU53_1000~26500

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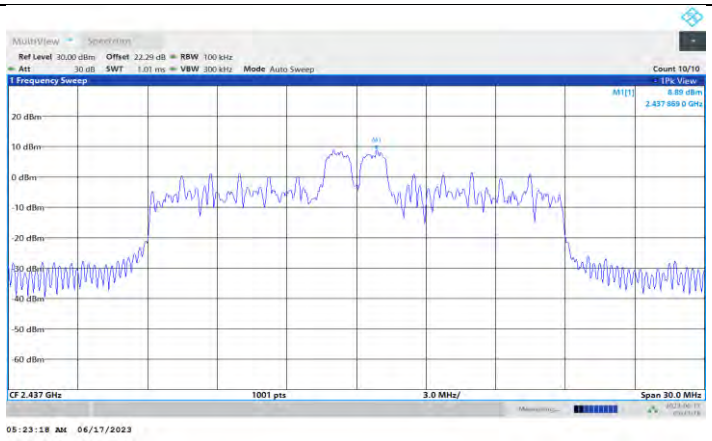
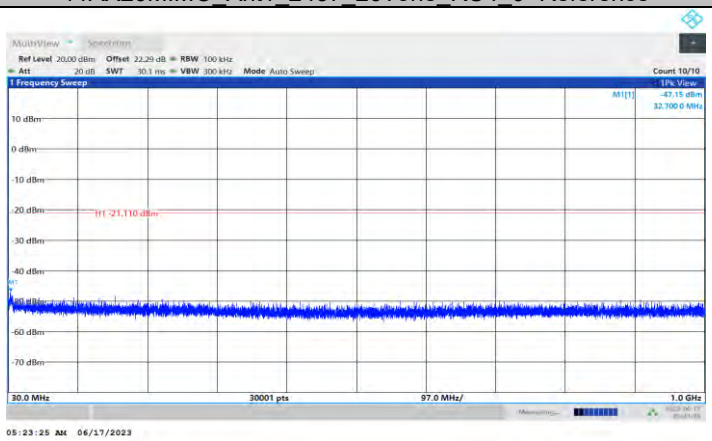


11AX20MIMO_Ant1_2437_26Tone_RU4_0~Reference



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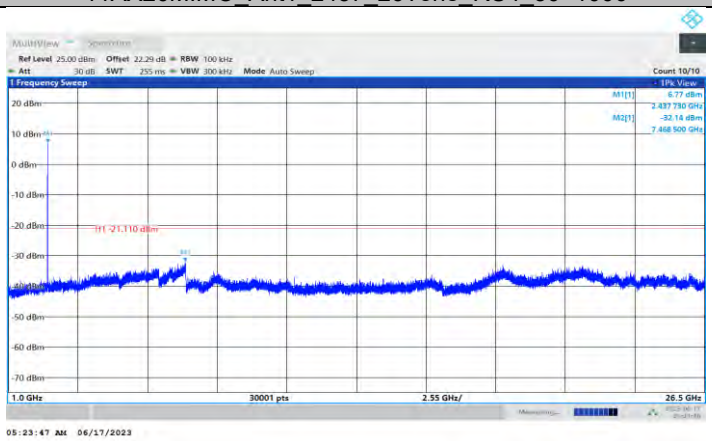

11AX20MIMO_Ant1_2437_26Tone_RU4_1000~26500

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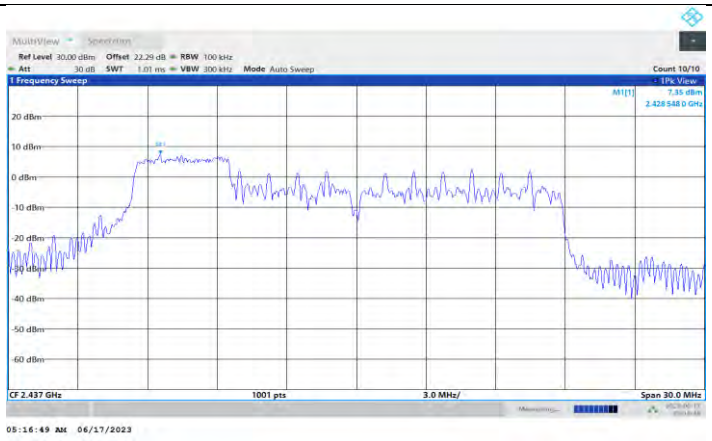

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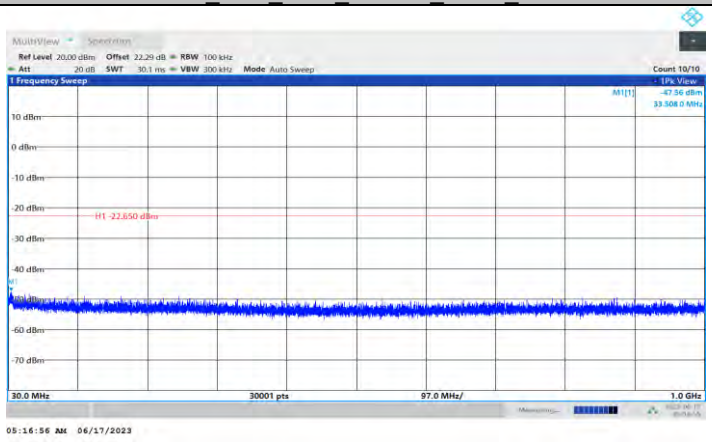

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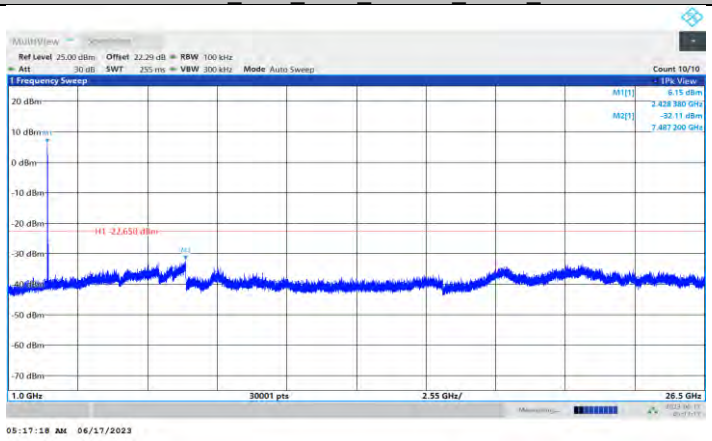

11AX20MIMO_Ant1_2437_52Tone_RU37_1000~26500

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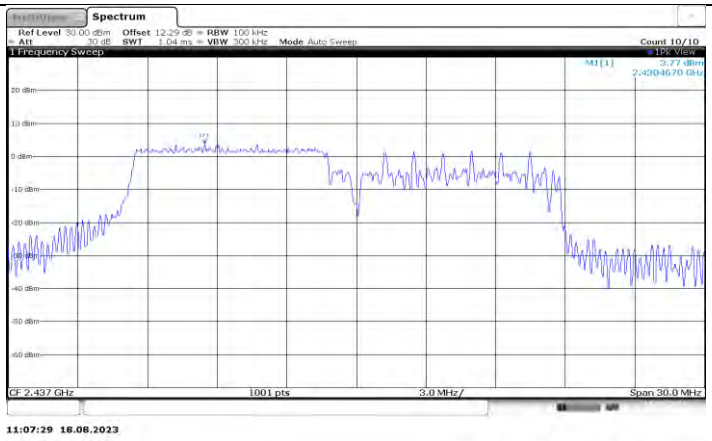

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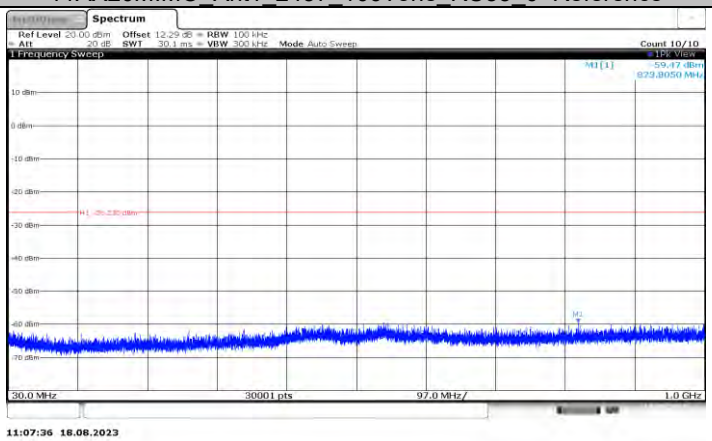

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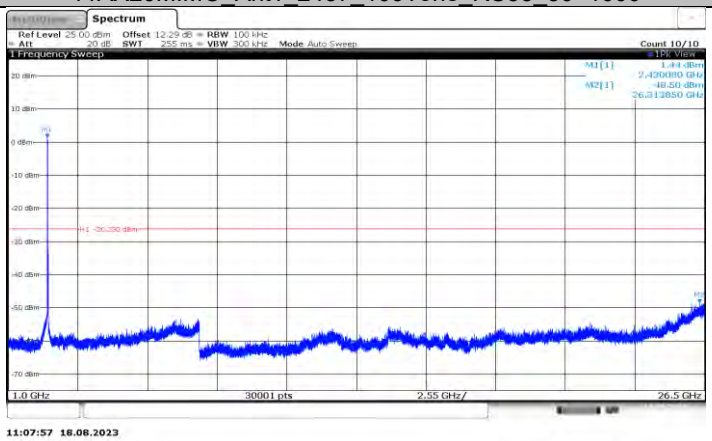

11AX20MIMO_Ant1_2437_106Tone_RU53_1000~26500

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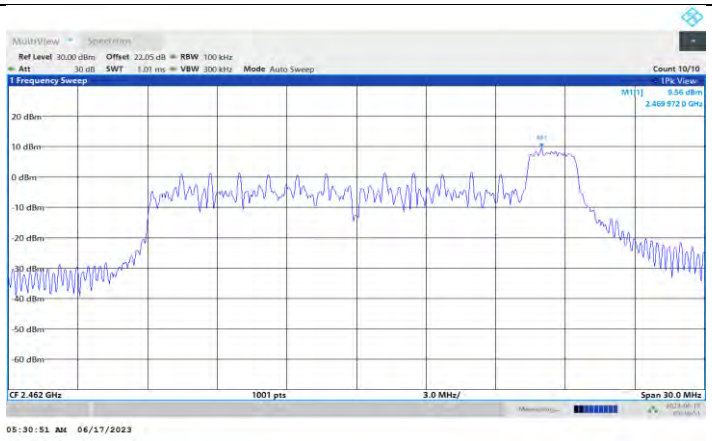
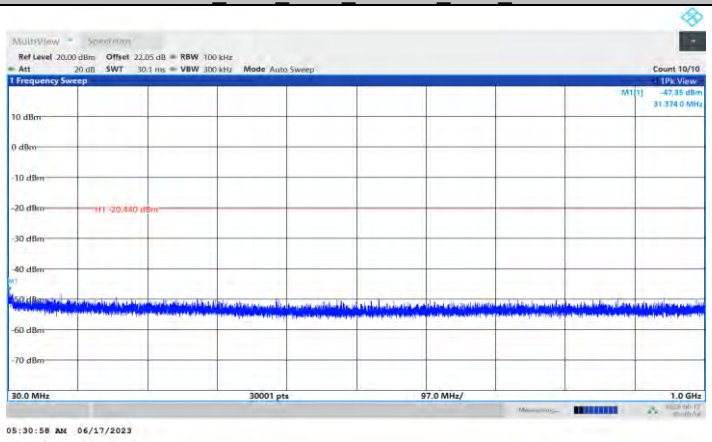


11AX20MIMO_Ant0_2462_26Tone_RU8_0~Reference



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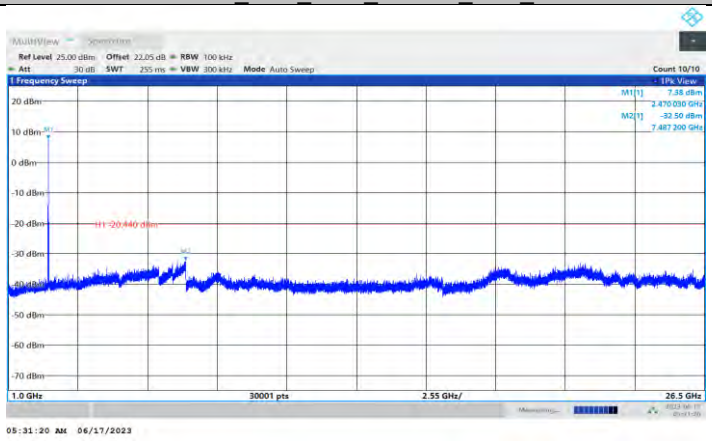

11AX20MIMO_Ant0_2462_26Tone_RU8_1000~26500

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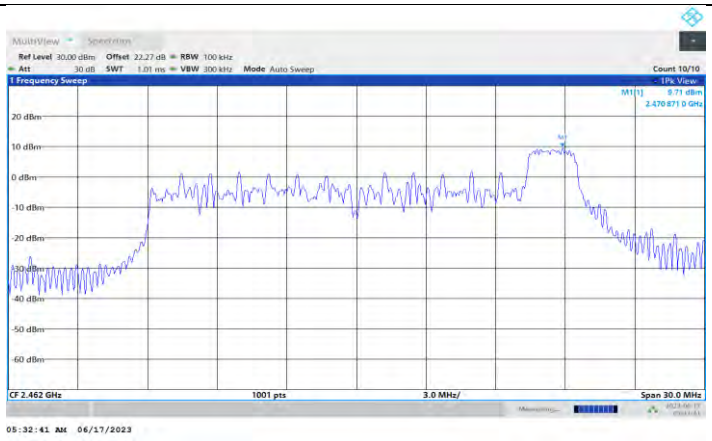

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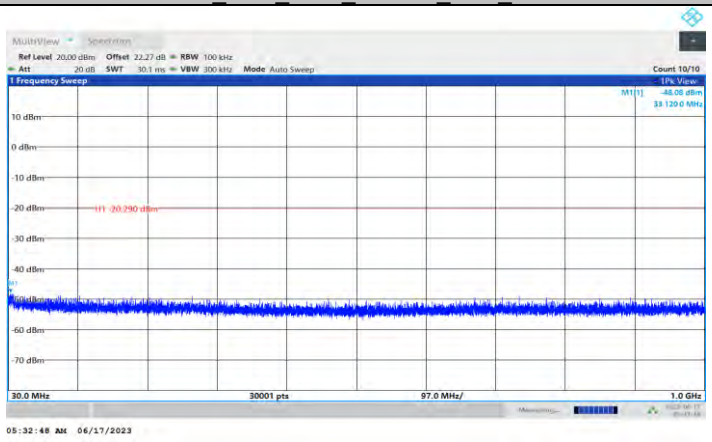

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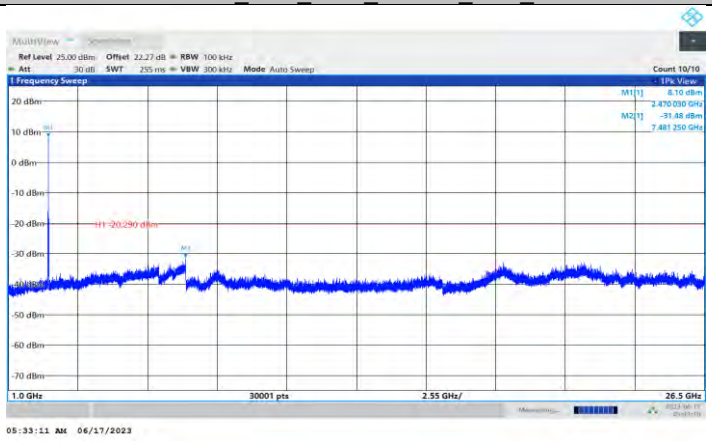

11AX20MIMO_Ant1_2462_26Tone_RU8_1000~26500

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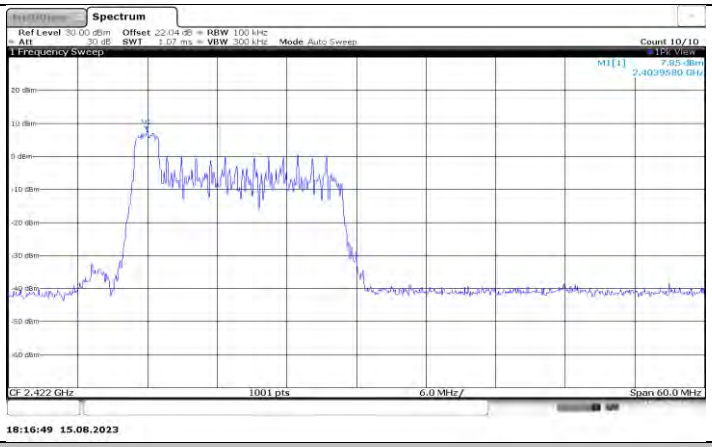

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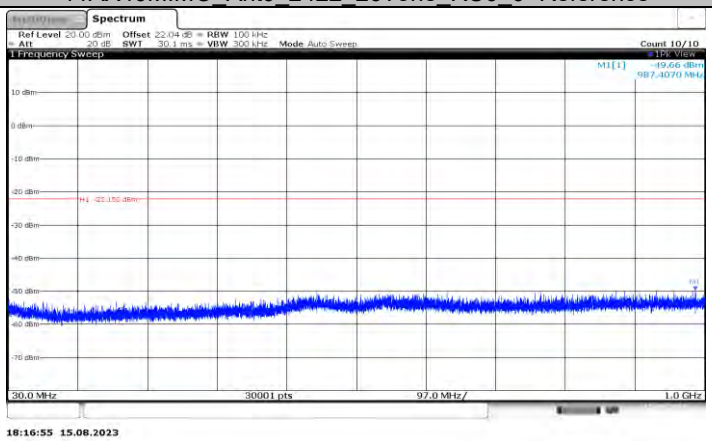

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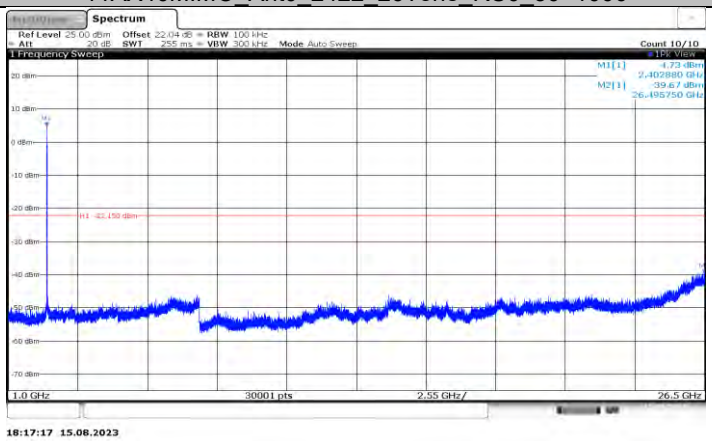

11AX40MIMO_Ant0_2422_26Tone_RU0_1000~26500

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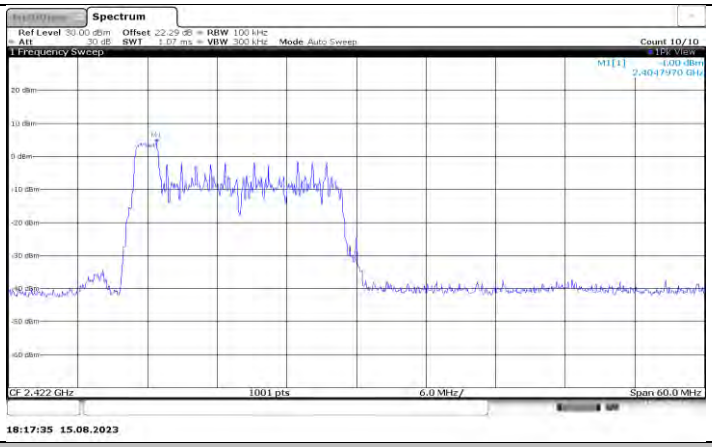

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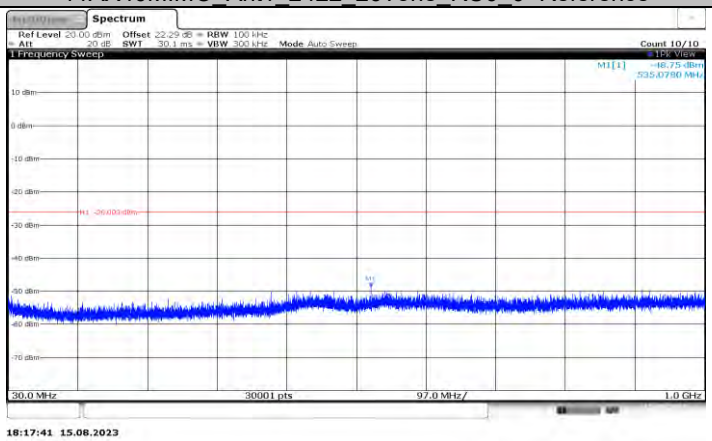

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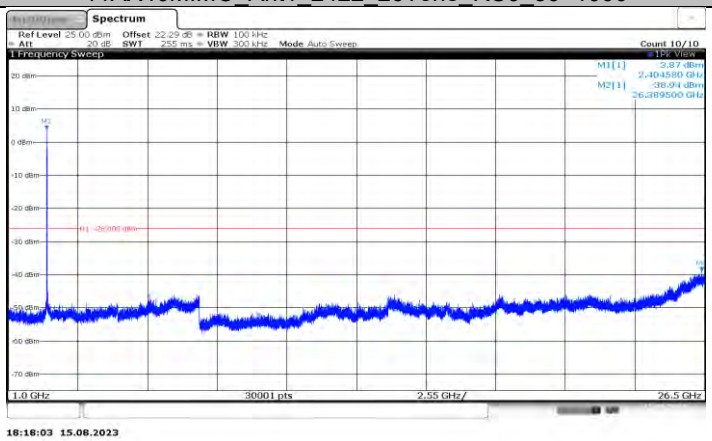

11AX40MIMO_Ant1_2422_26Tone_RU0_1000~26500

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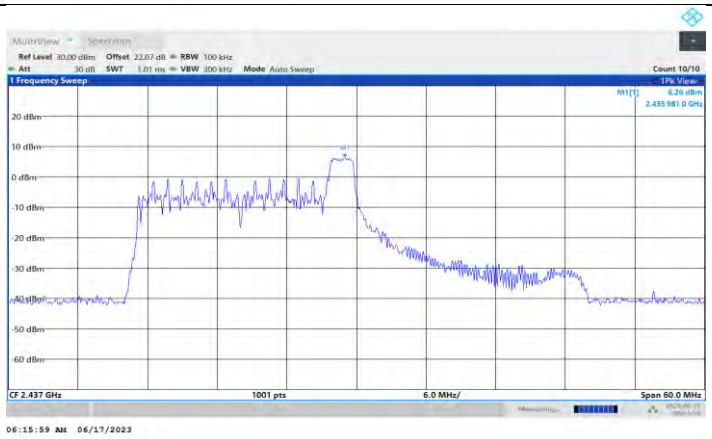
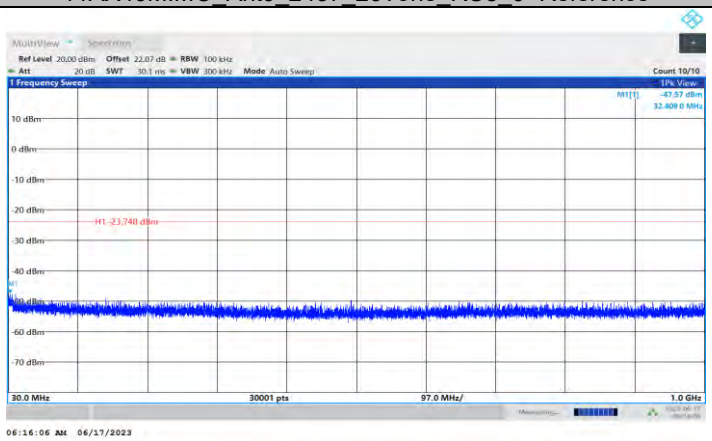


11AX40MIMO_Ant0_2437_26Tone_RU8_0~Reference



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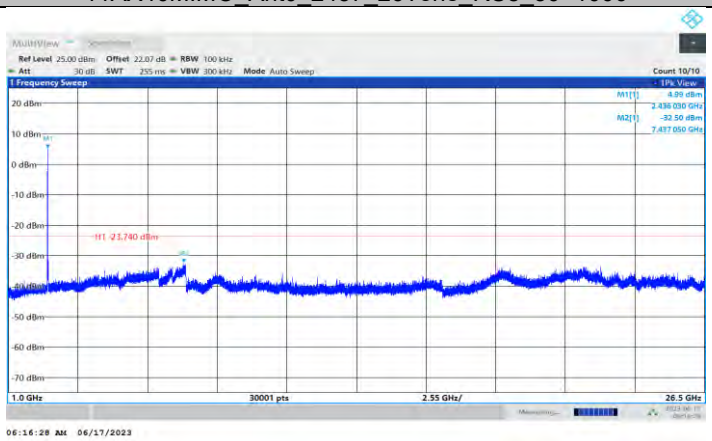

11AX40MIMO_Ant0_2437_26Tone_RU8_1000~26500

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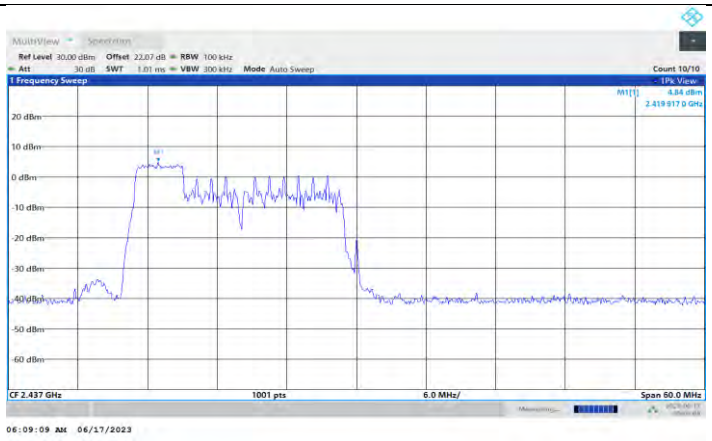

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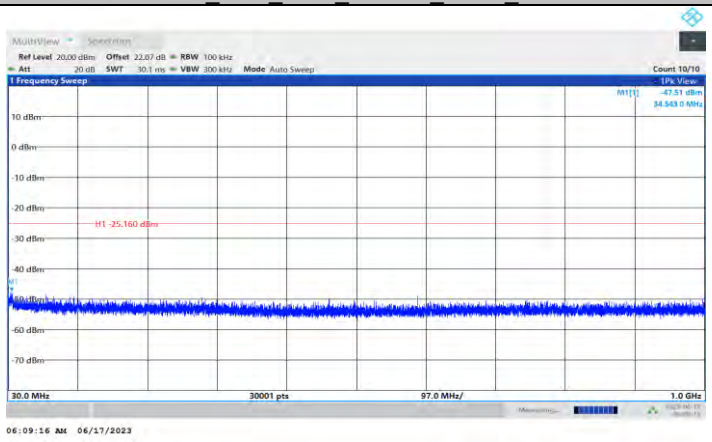

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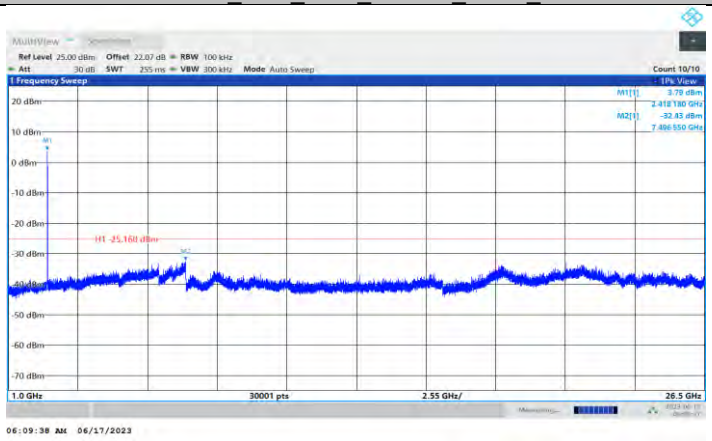

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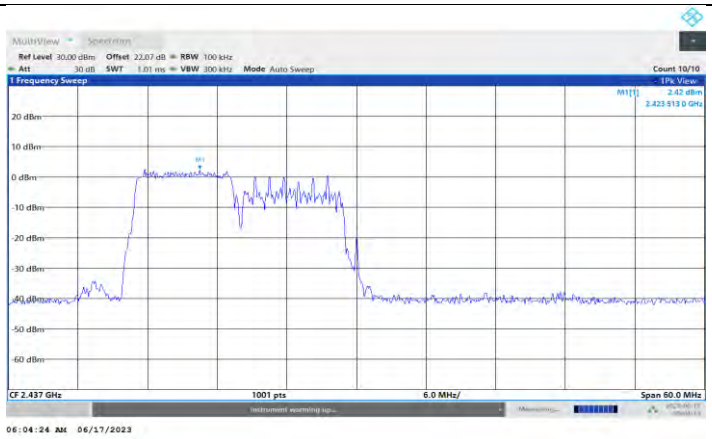

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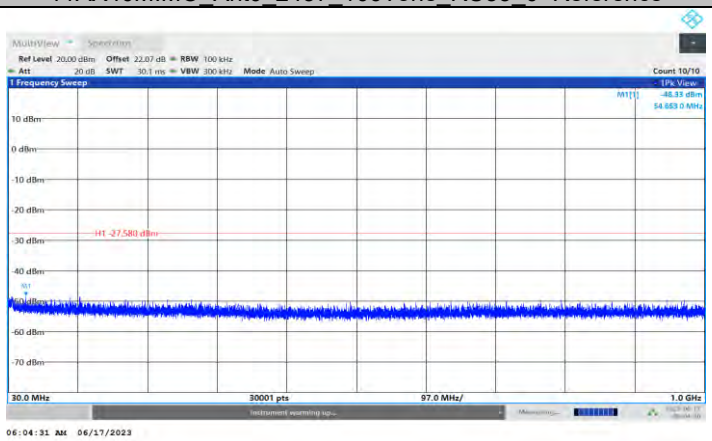

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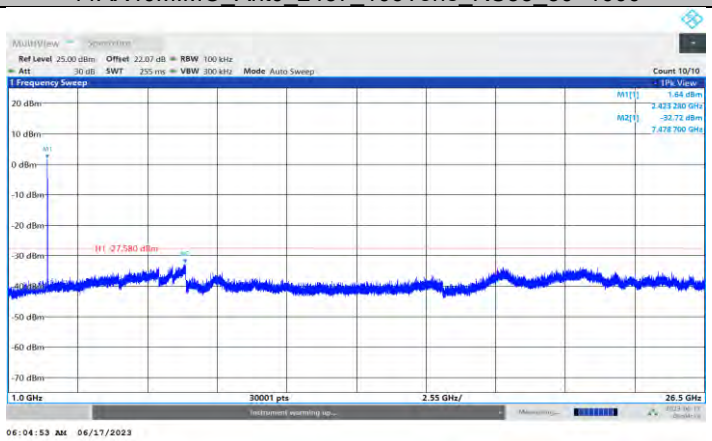

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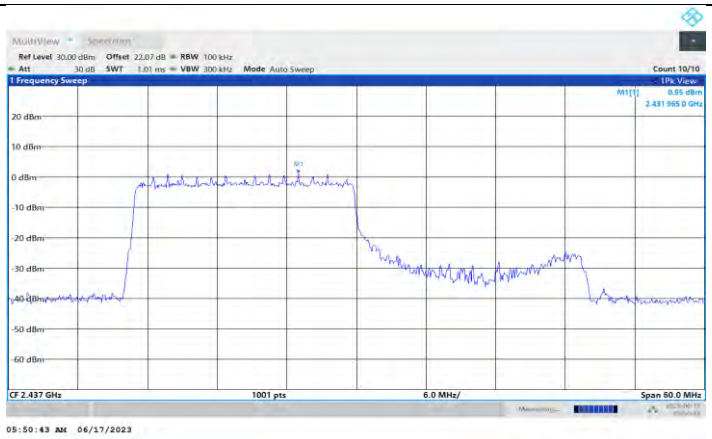

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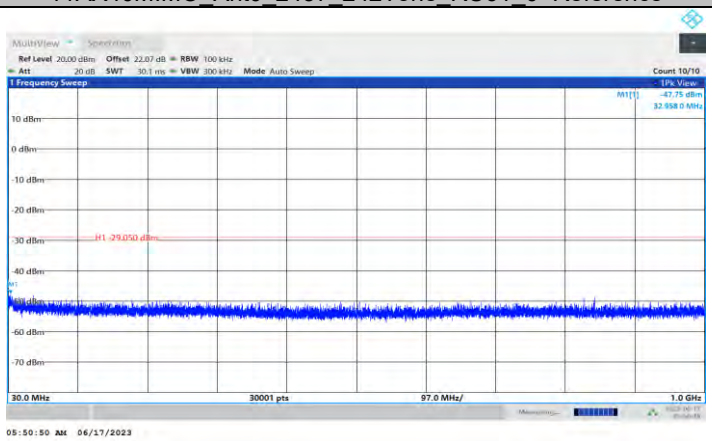

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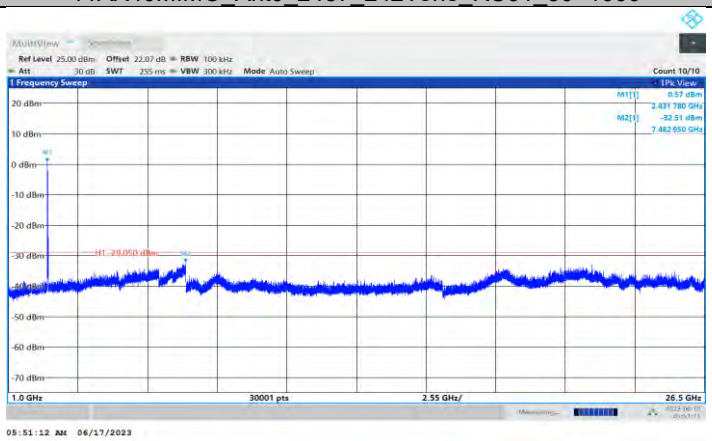

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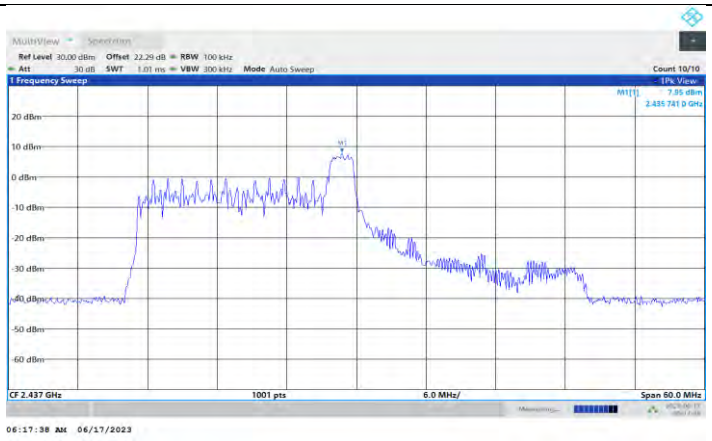

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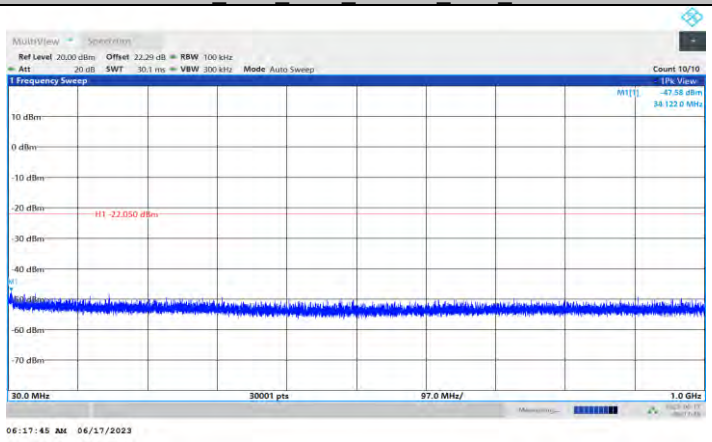

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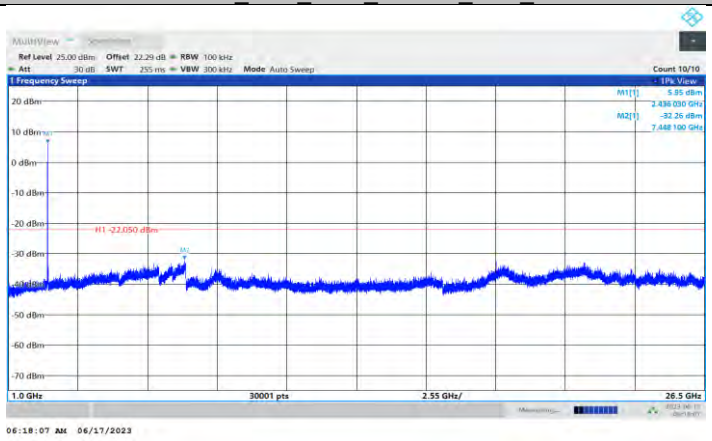

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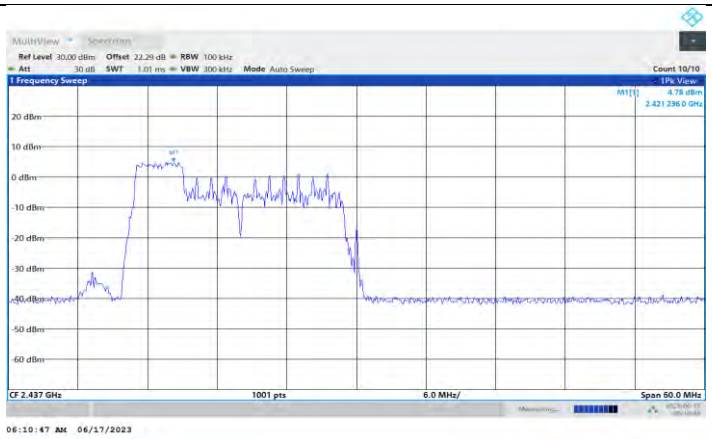
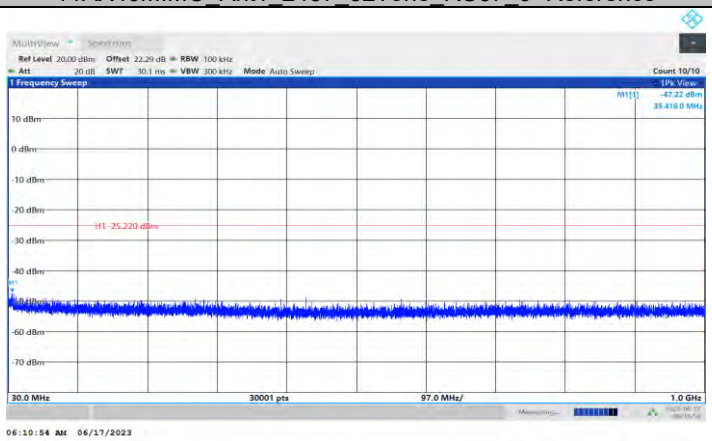


11AX40MIMO_Ant1_2437_52Tone_RU37_0~Reference



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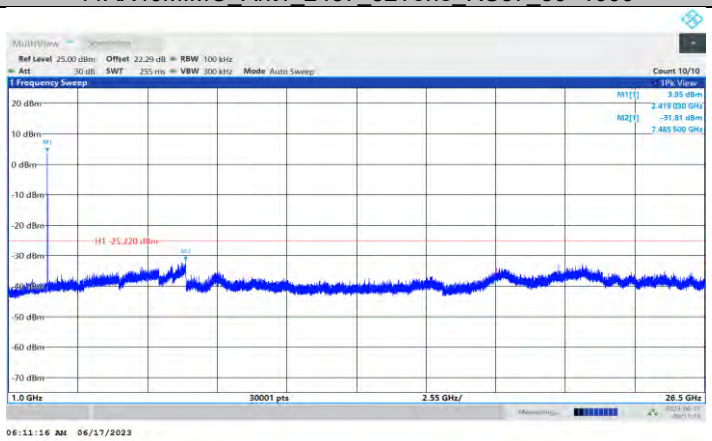

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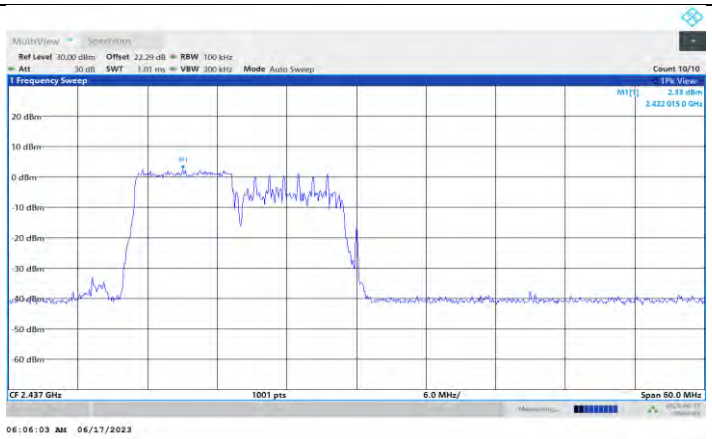

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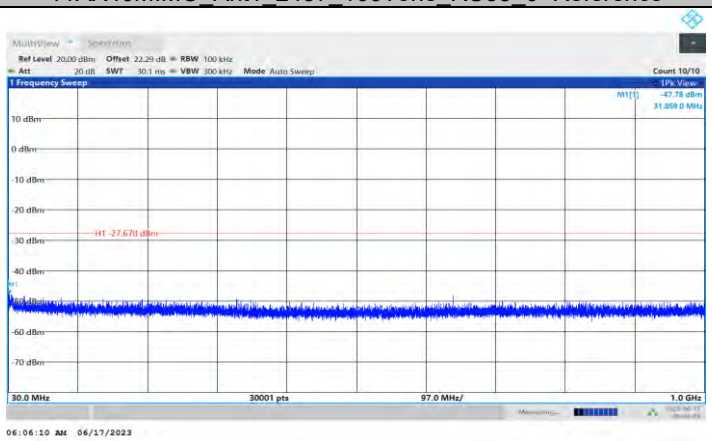

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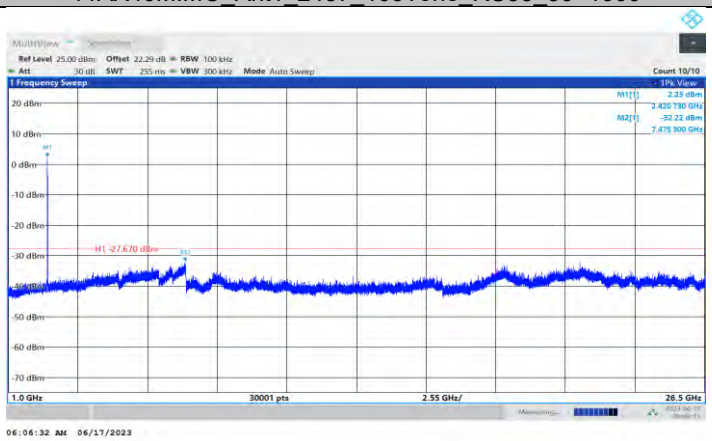

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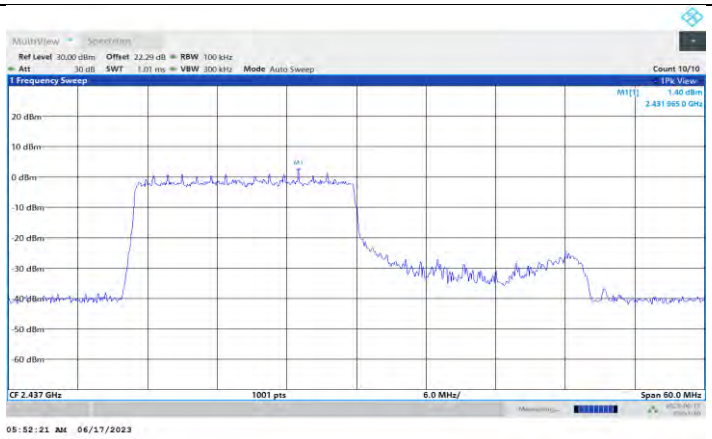
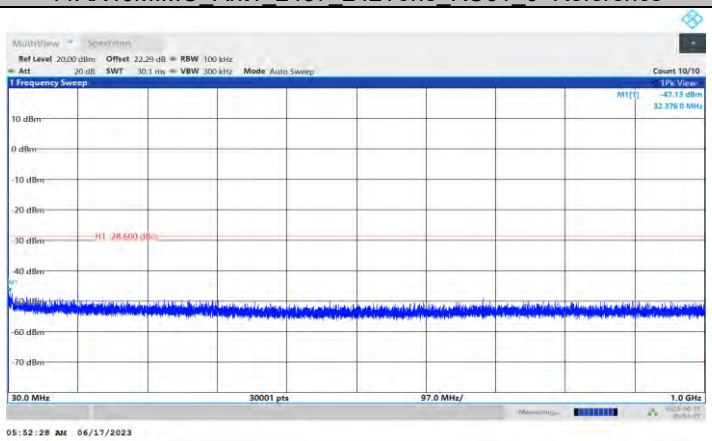


11AX40MIMO_Ant1_2437_242Tone_RU61_0~Reference



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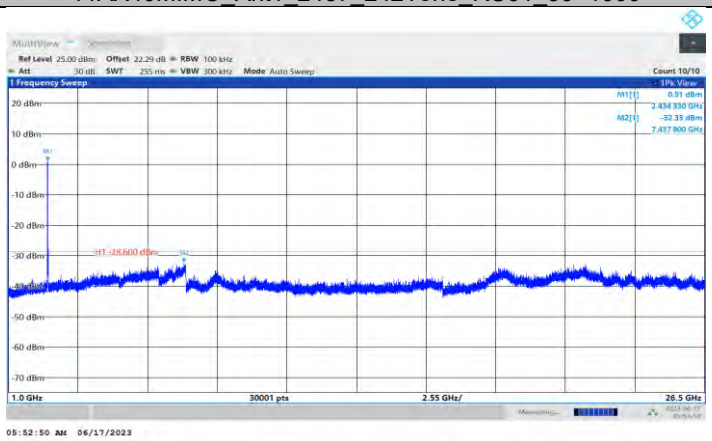

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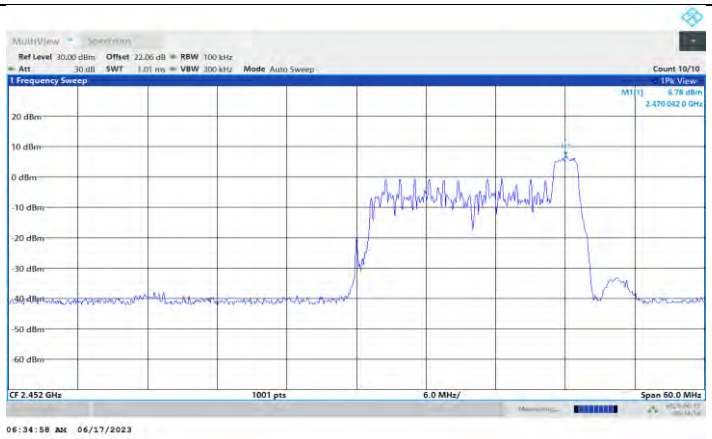
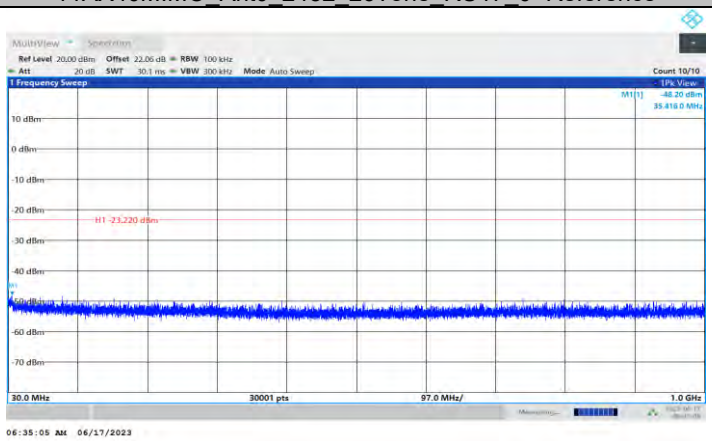
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant0_2452_26Tone_RU17_0~Reference



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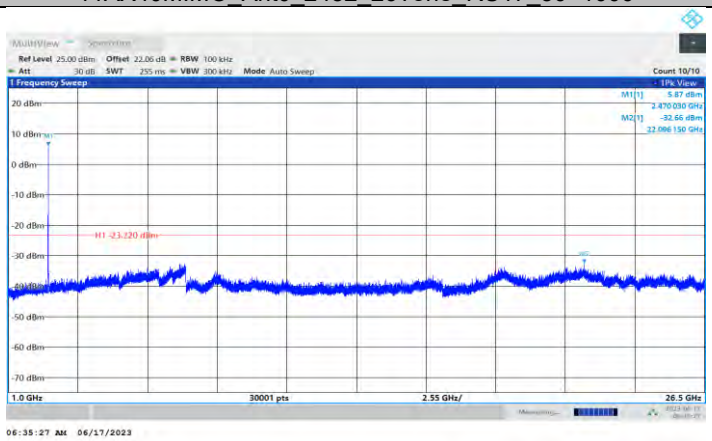

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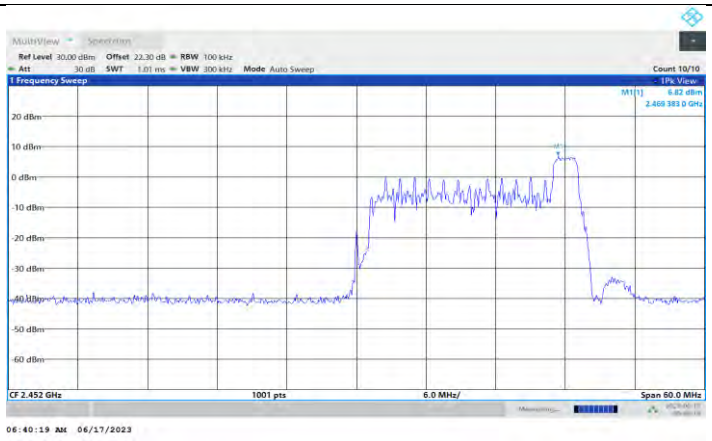
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



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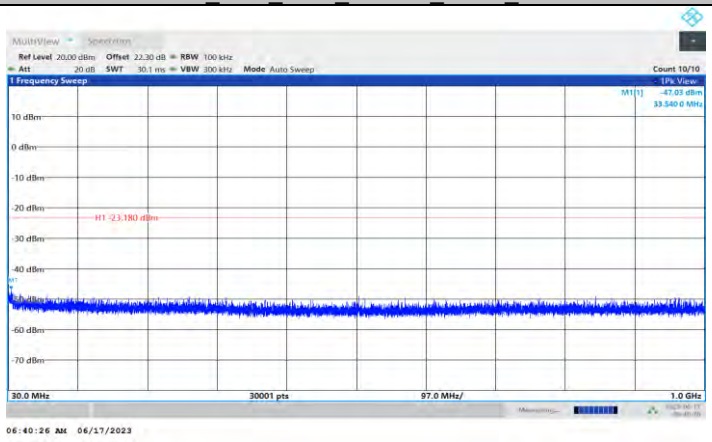

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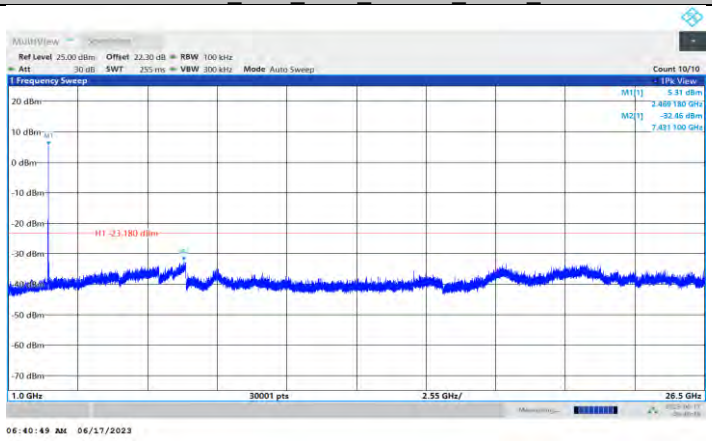

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11.13. APPENDIX G1: DUTY CYCLE FOR FULL RU

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	8.73	0.9576	95.76	0.19	0.12	1
11G	1.38	1.75	0.7886	78.86	1.03	0.72	1
11N20MIMO	1.3	1.69	0.7692	76.92	1.14	0.77	1
11N40MIMO	0.64	1	0.6400	64.00	1.94	1.56	2
11AX20MIMO	0.56	0.95	0.5895	58.95	2.30	1.79	2
11AX40MIMO	0.2	0.39	0.5128	51.28	2.90	5.00	5

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.

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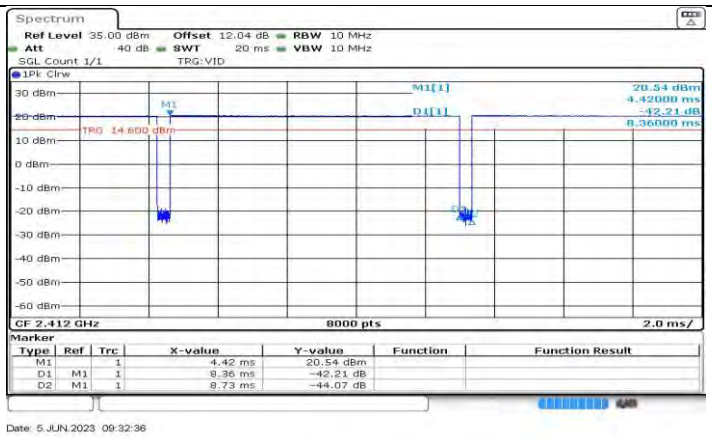
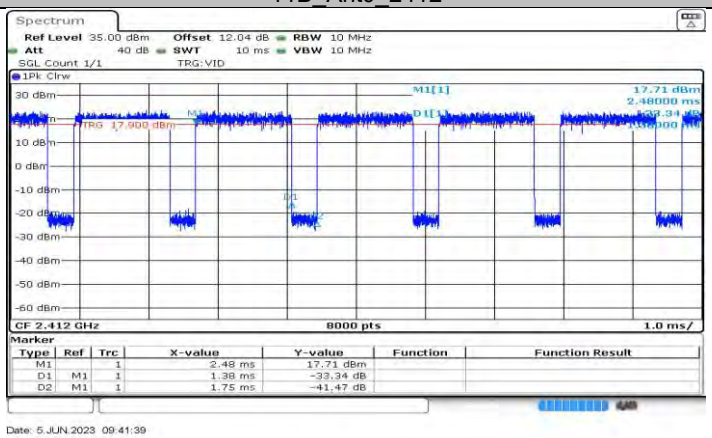
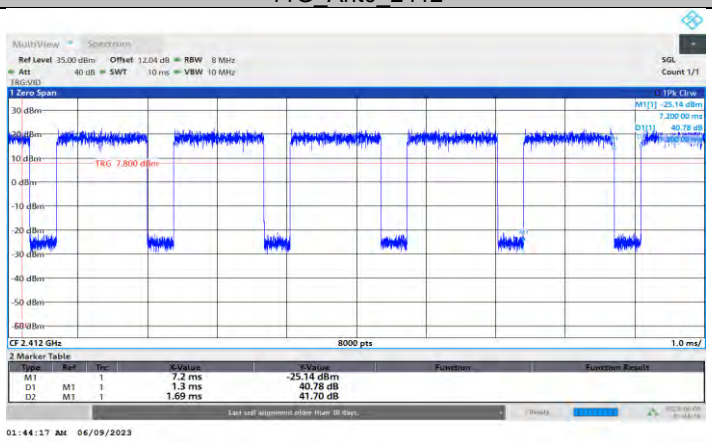
11.13.2. Test Graphs



11B_Ant0_2412



11G_Ant0_2412



11N20MIMO_Ant0_2412

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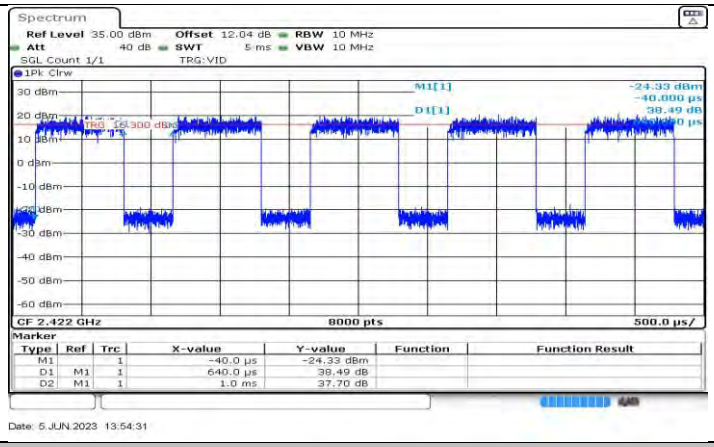

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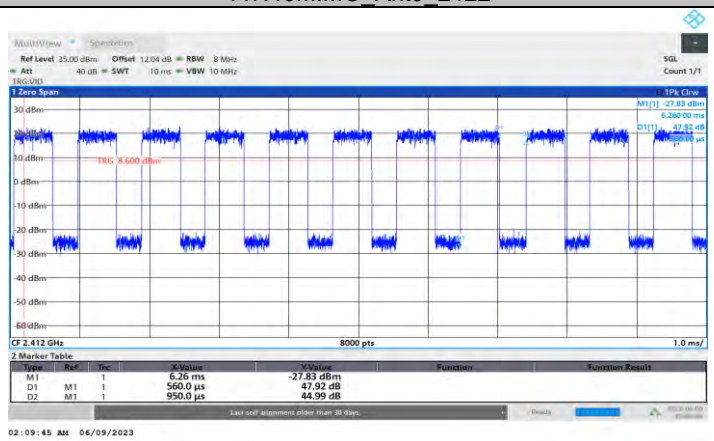

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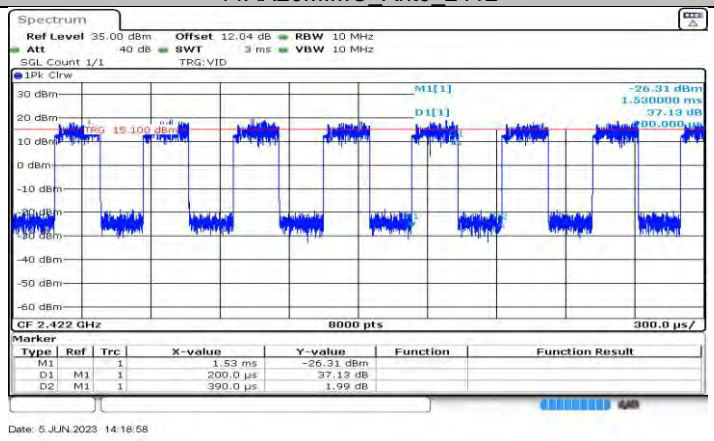

11AX40MIMO_Ant0_2422

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11.14. APPENDIX G2: DUTY CYCLE FOR SINGLE PARTIAL RU

11.14.1. Test Result

TestMode	Channel	RuSize	RuIndex	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)
11AX20 MIMO	2437	26Tone	RU4	1.61	1.96	0.8214	82.14	0.85	0.62	1
		52Tone	RU37	1.52	1.89	0.8042	80.42	0.95	0.66	1
		106Tone	RU53	1.39	1.77	0.7853	78.53	1.05	0.72	1
11AX40 MIMO	2437	26Tone	RU8	1.6	1.95	0.8205	82.05	0.86	0.63	1
		52Tone	RU37	1.53	1.89	0.8095	80.95	0.92	0.65	1
		106Tone	RU53	1.4	1.78	0.7865	78.65	1.04	0.71	1
		242Tone	RU61	1.21	1.59	0.7610	76.10	1.19	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.

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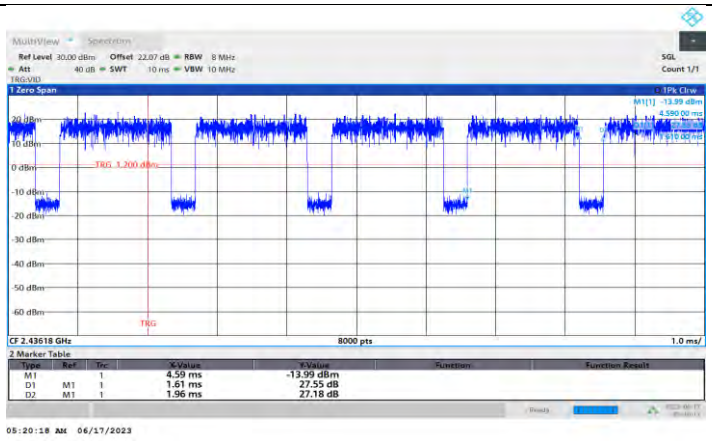
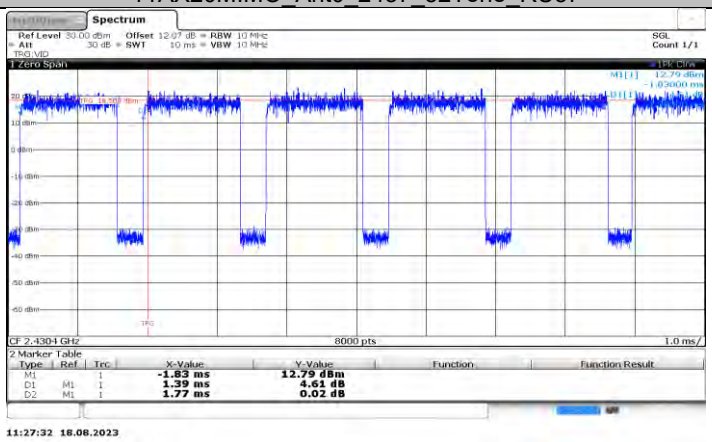
11.14.2. Test Graphs



11AX20MIMO_Ant0_2437_26Tone_RU4

11AX20MIMO_Ant0_2437_52Tone_RU37



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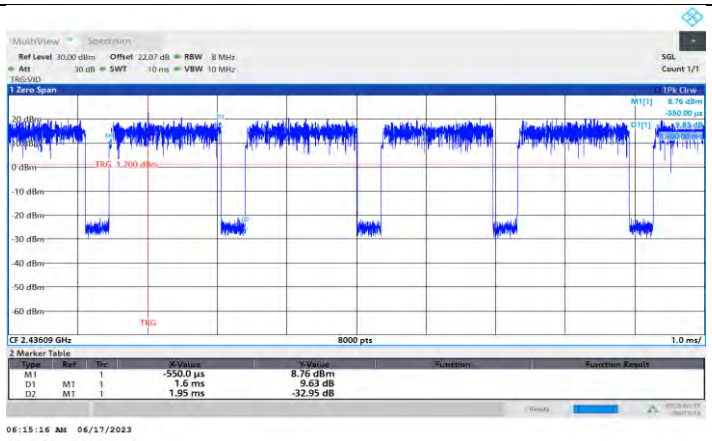

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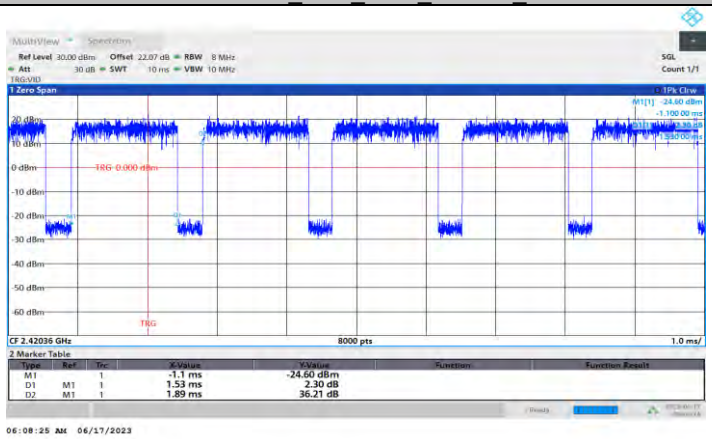

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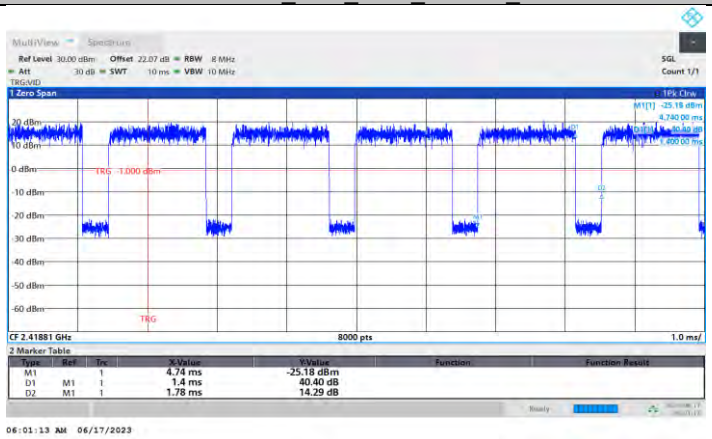

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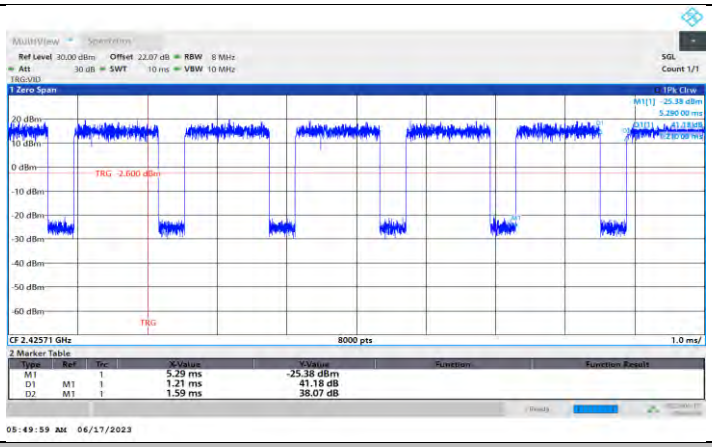

11AX40MIMO_Ant0_2437_242Tone_RU61

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