

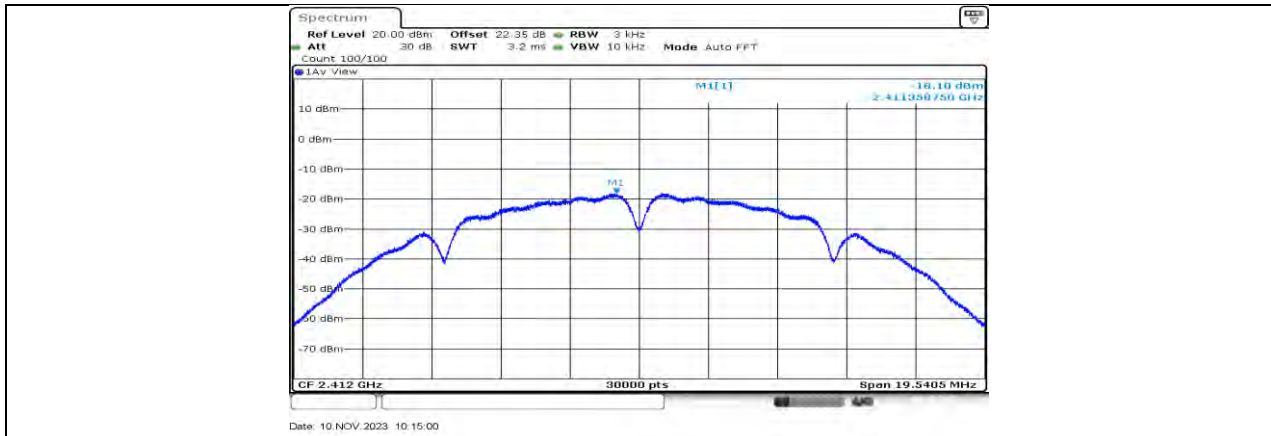
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result

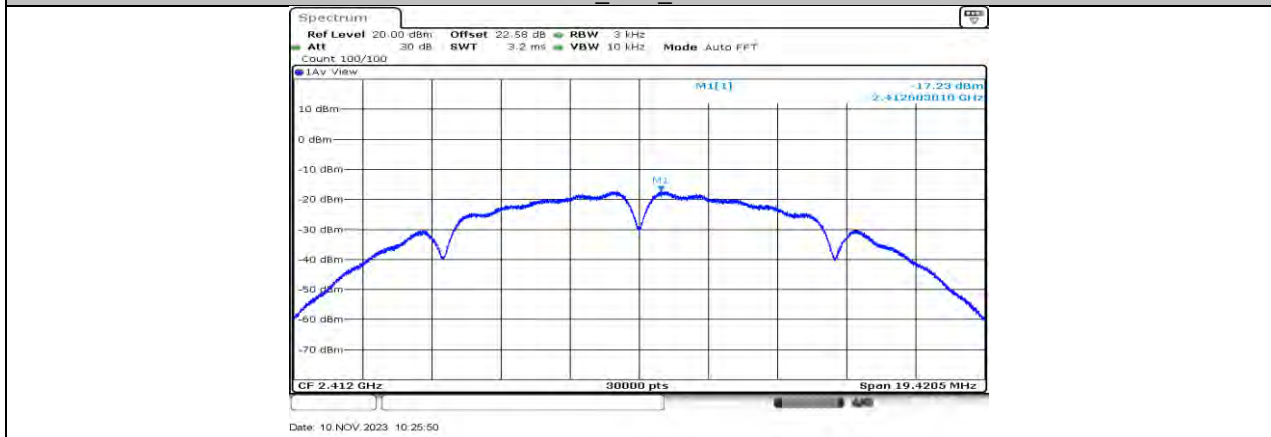
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.10	≤8.00	PASS
	Ant2	2412	-17.23	≤8.00	PASS
	Ant1	2437	-17.95	≤8.00	PASS
	Ant2	2437	-17.42	≤8.00	PASS
	Ant1	2462	-17.65	≤8.00	PASS
	Ant2	2462	-16.89	≤8.00	PASS
11G	Ant1	2412	-18.82	≤8.00	PASS
	Ant2	2412	-17.68	≤8.00	PASS
	Ant1	2437	-20.23	≤8.00	PASS
	Ant2	2437	-19.25	≤8.00	PASS
	Ant1	2462	-20.25	≤8.00	PASS
	Ant2	2462	-18.68	≤8.00	PASS
11N20MIMO	Ant1	2412	-19.05	≤8.00	PASS
	Ant2	2412	-17.84	≤8.00	PASS
	total	2412	-15.39	≤8.00	PASS
	Ant1	2437	-20.26	≤8.00	PASS
	Ant2	2437	-18.11	≤8.00	PASS
	total	2437	-16.04	≤8.00	PASS
	Ant1	2462	-19.49	≤8.00	PASS
	Ant2	2462	-18.51	≤8.00	PASS
total	2462	-15.96	≤8.00	PASS	
11N40MIMO	Ant1	2422	-21.41	≤8.00	PASS
	Ant2	2422	-19.76	≤8.00	PASS
	total	2422	-17.50	≤8.00	PASS
	Ant1	2437	-21.24	≤8.00	PASS
	Ant2	2437	-20.61	≤8.00	PASS
	total	2437	-17.90	≤8.00	PASS
	Ant1	2452	-21.18	≤8.00	PASS
	Ant2	2452	-20.89	≤8.00	PASS
total	2452	-18.02	≤8.00	PASS	
11AX20MIMO	Ant1	2412	-23.61	≤8.00	PASS
	Ant2	2412	-21.78	≤8.00	PASS
	total	2412	-19.59	≤8.00	PASS
	Ant1	2437	-24.15	≤8.00	PASS
	Ant2	2437	-23.52	≤8.00	PASS
	total	2437	-20.81	≤8.00	PASS
	Ant1	2462	-22.40	≤8.00	PASS
	Ant2	2462	-22.50	≤8.00	PASS
total	2462	-19.44	≤8.00	PASS	
11AX40MIMO	Ant1	2422	-26.18	≤8.00	PASS
	Ant2	2422	-24.92	≤8.00	PASS
	total	2422	-22.49	≤8.00	PASS
	Ant1	2437	-26.42	≤8.00	PASS
	Ant2	2437	-26.09	≤8.00	PASS
	total	2437	-23.24	≤8.00	PASS
	Ant1	2452	-26.66	≤8.00	PASS
	Ant2	2452	-25.62	≤8.00	PASS
total	2452	-23.10	≤8.00	PASS	

Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

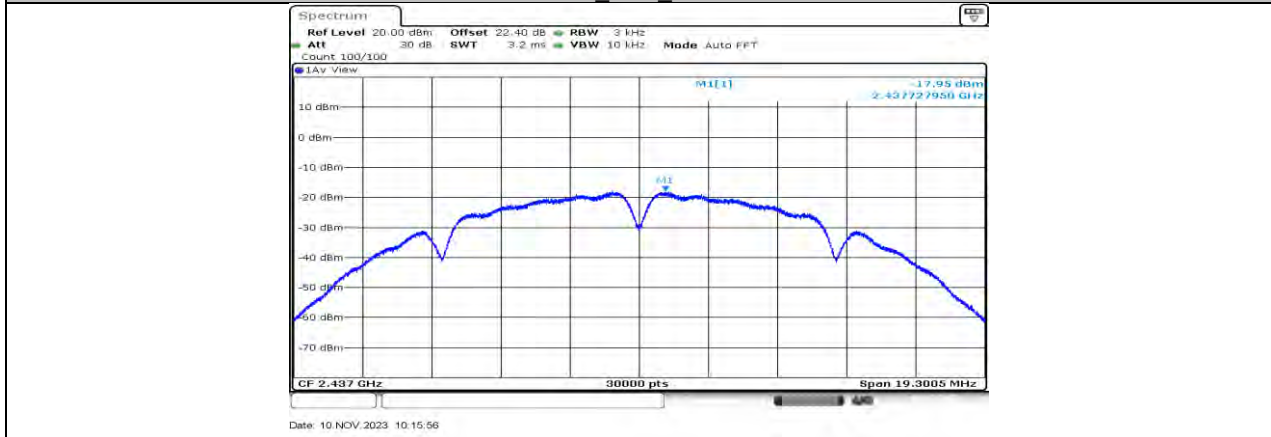
11.4.2. Test Graphs



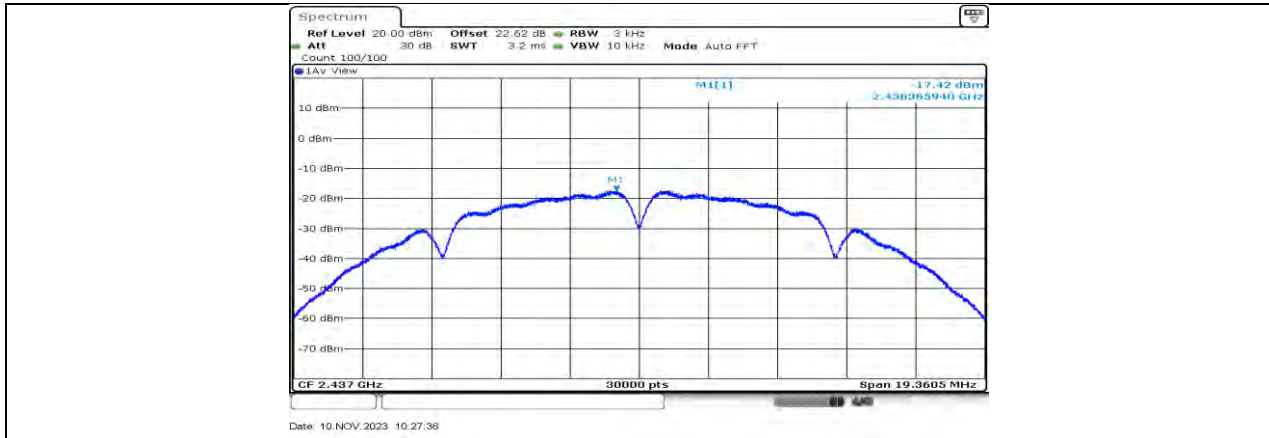
11B_Ant1_2412



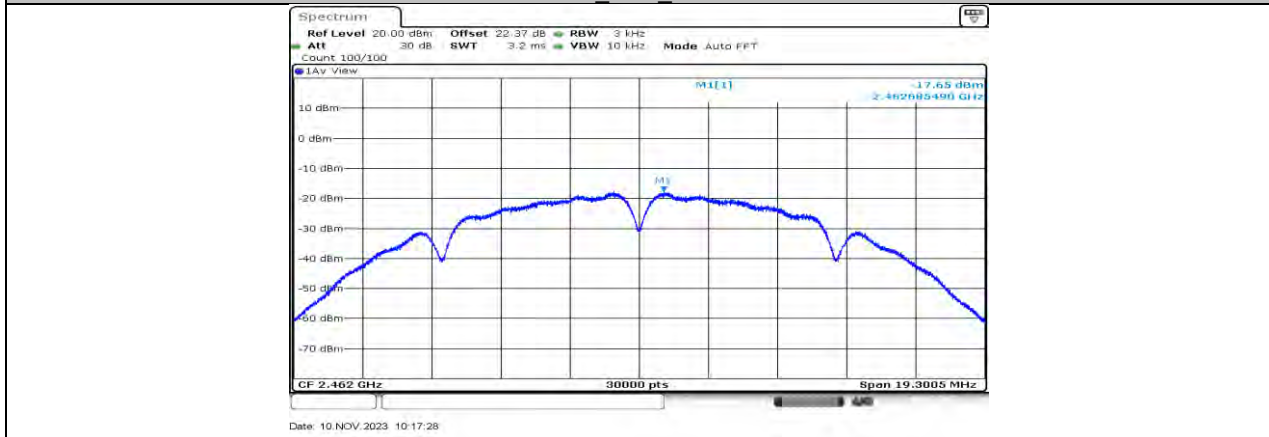
11B_Ant2_2412



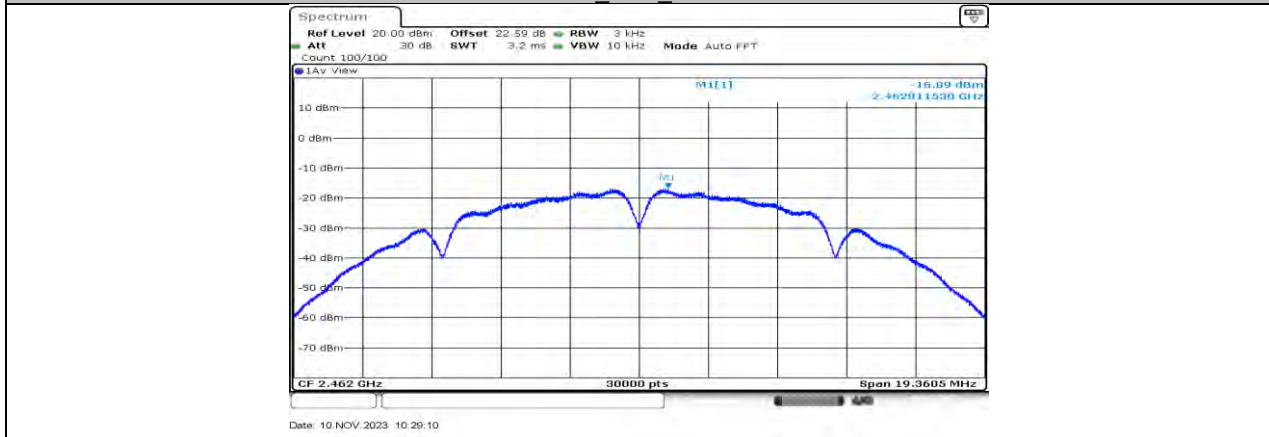
11B_Ant1_2437



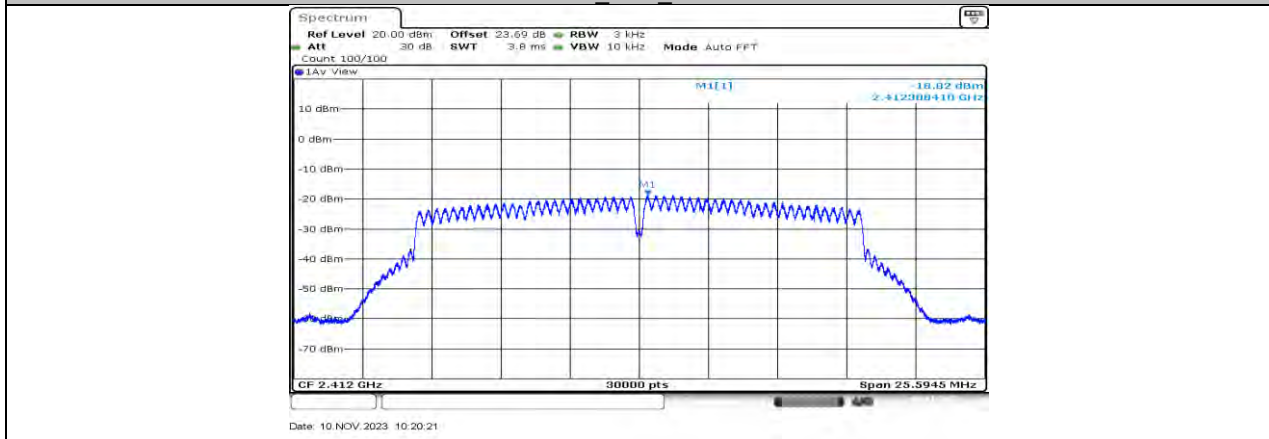
11B Ant2 2437

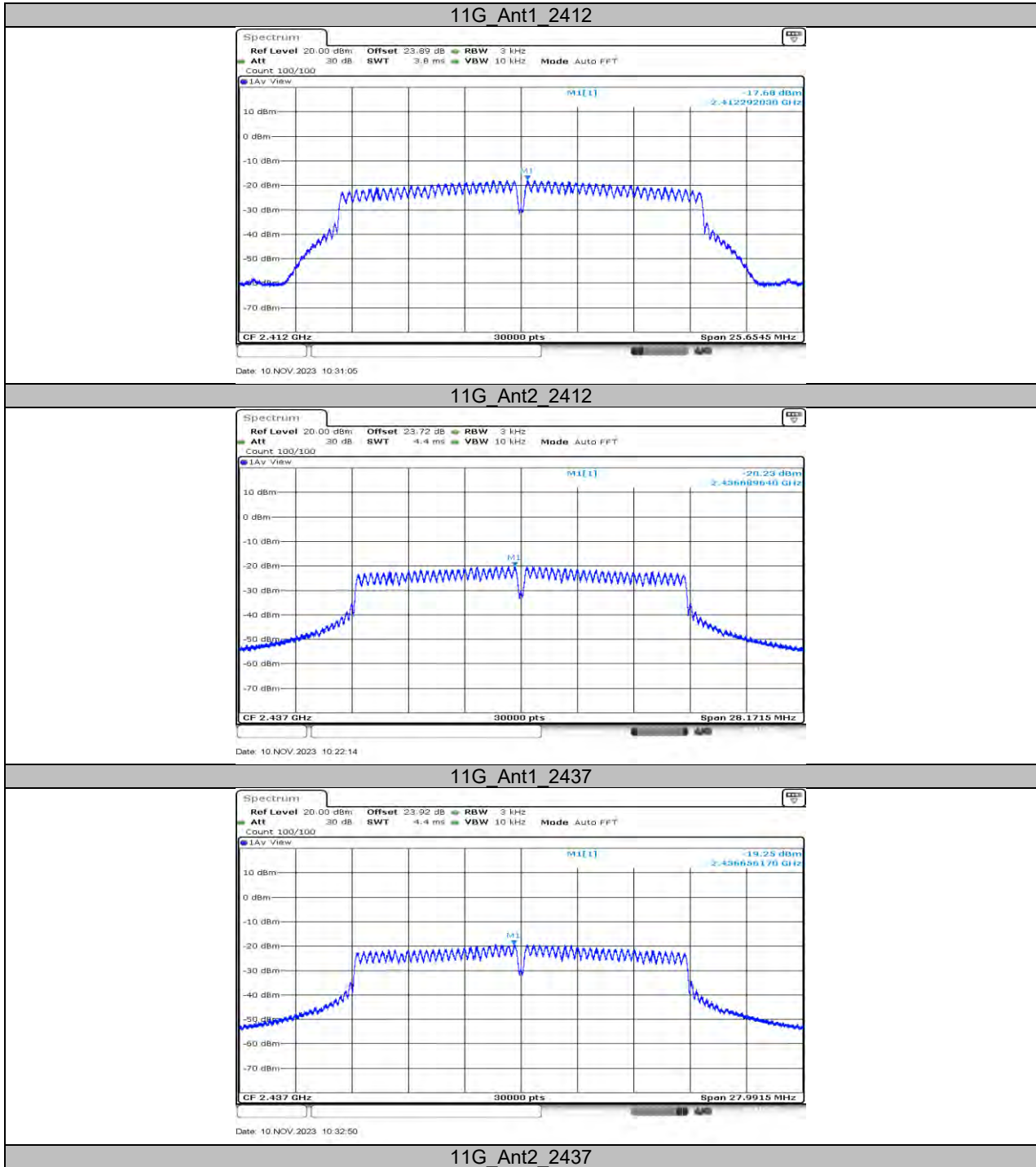


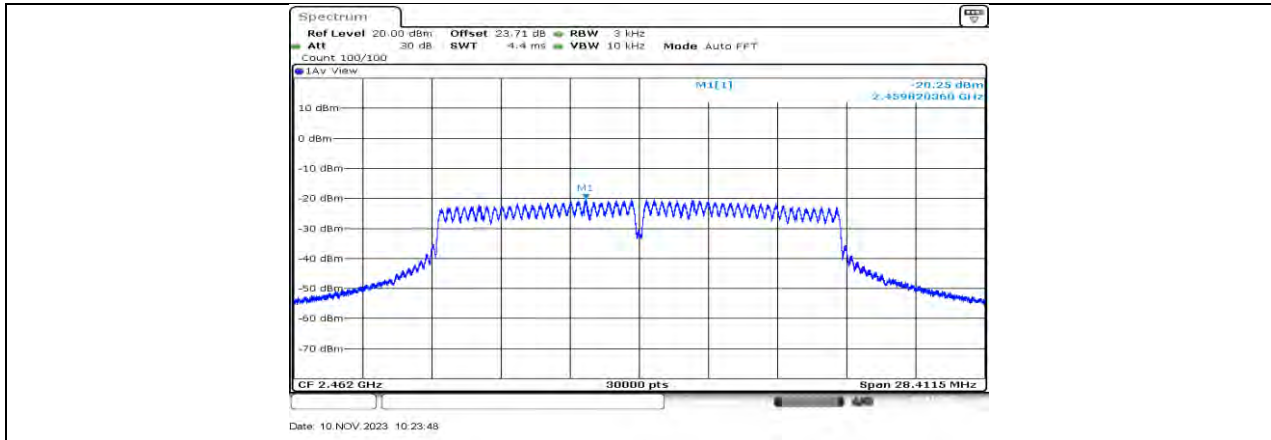
11B Ant1 2462



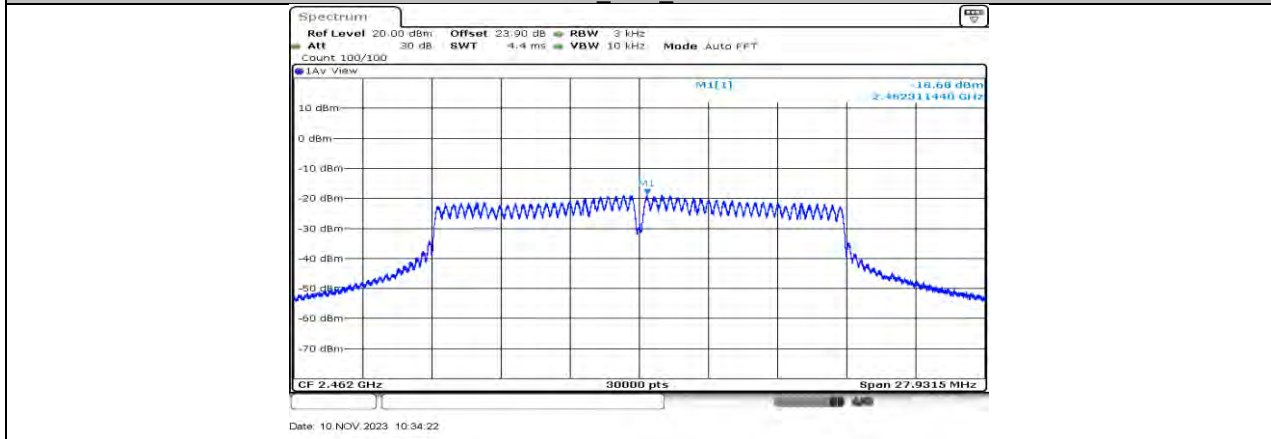
11B Ant2 2462



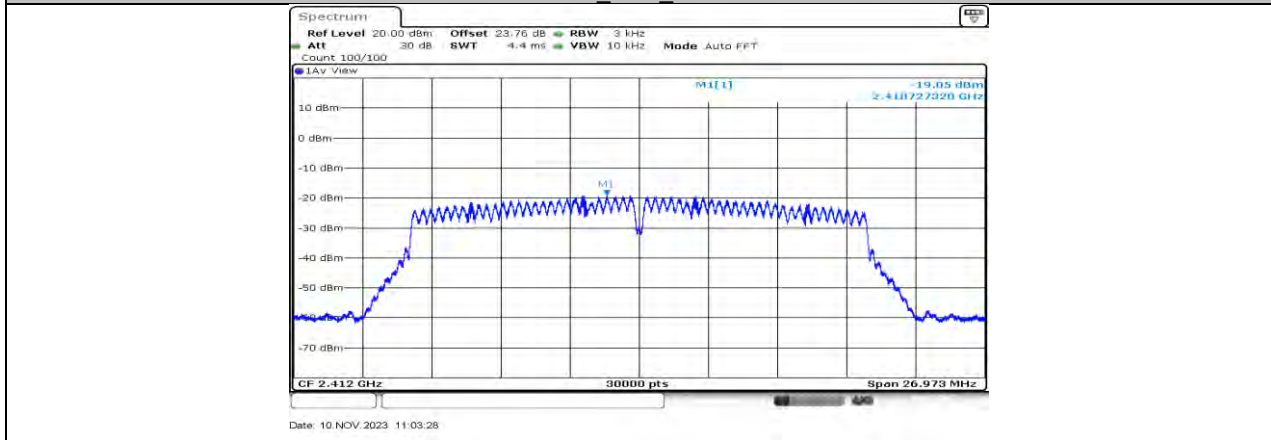




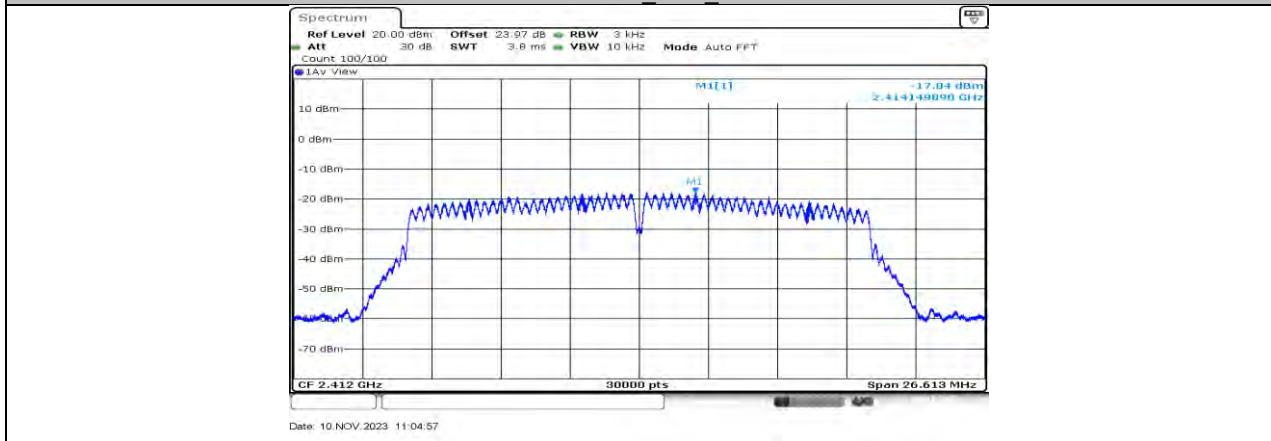
11G Ant1 2462

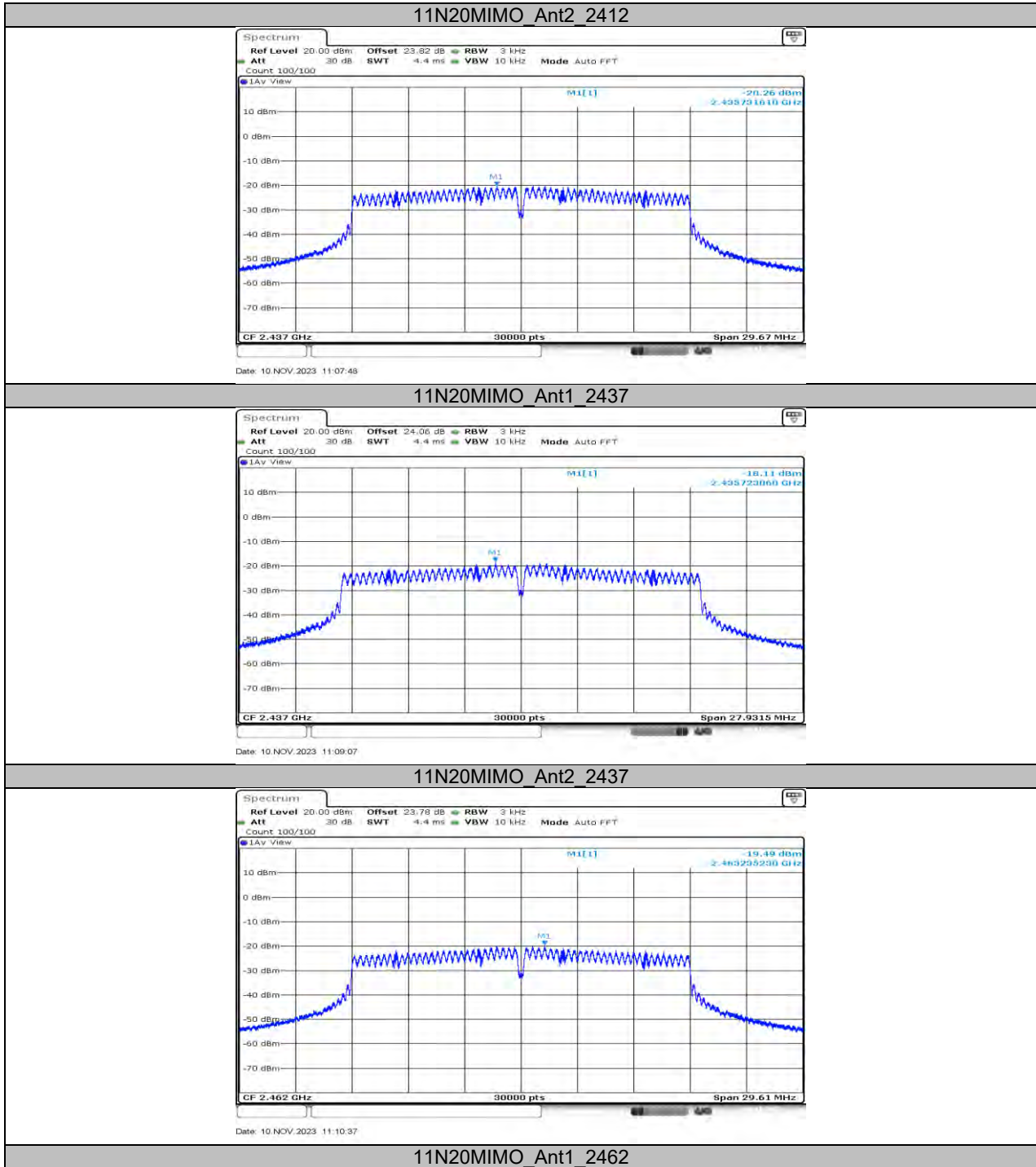


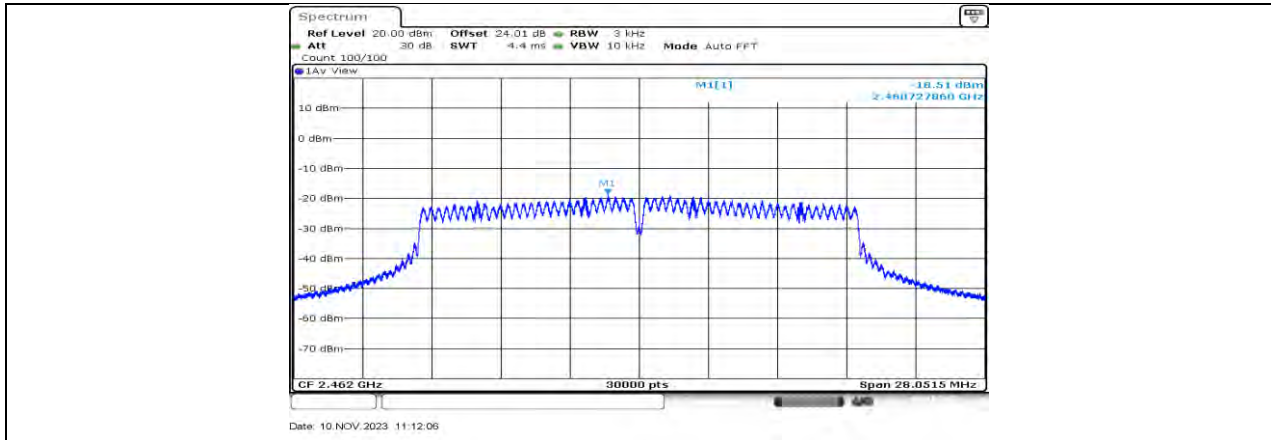
11G Ant2 2462



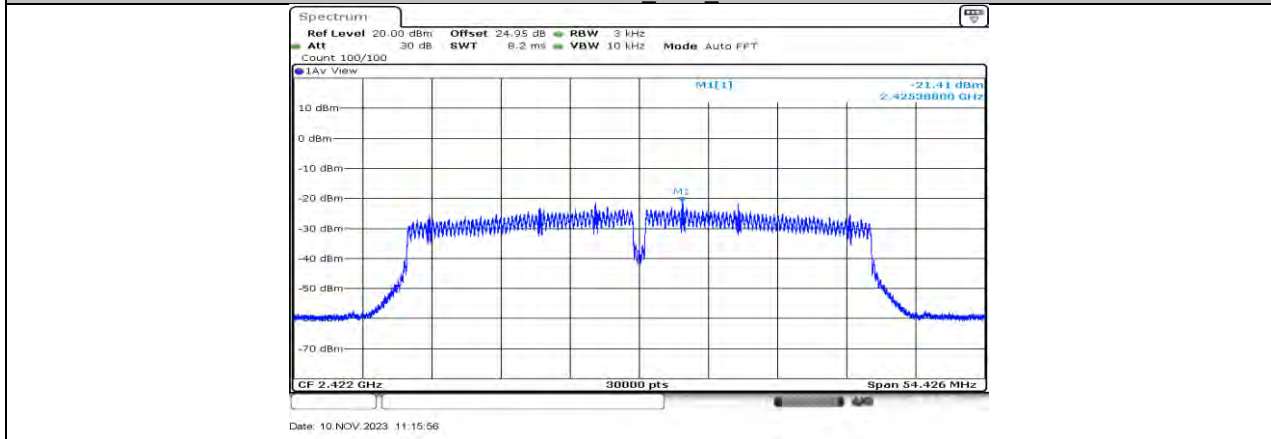
11N20MIMO Ant1 2412



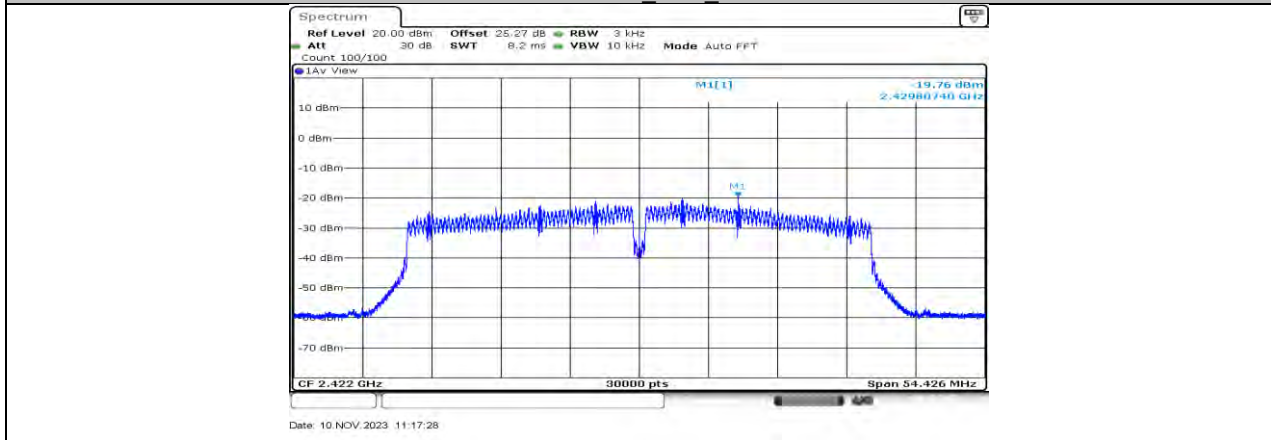




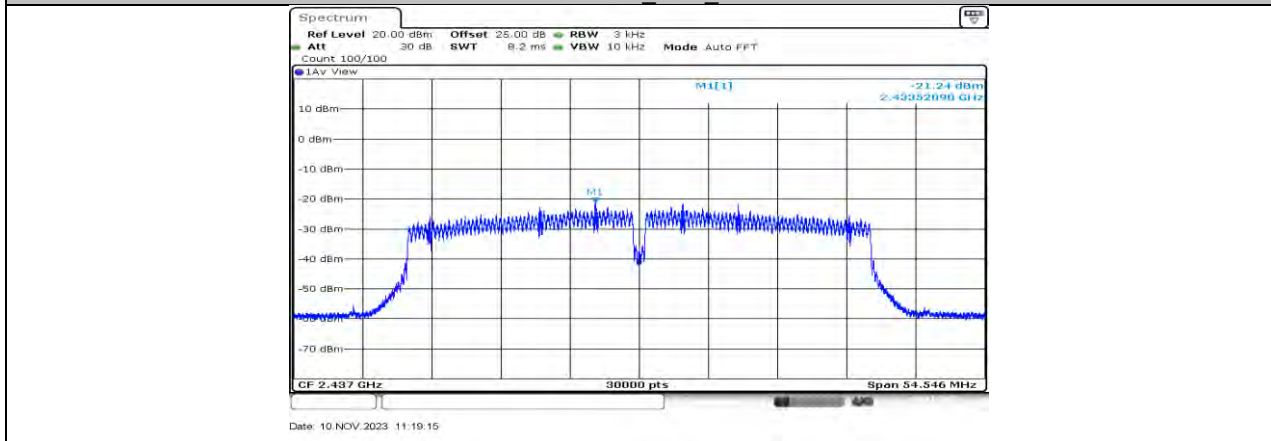
11N20MIMO Ant2 2462

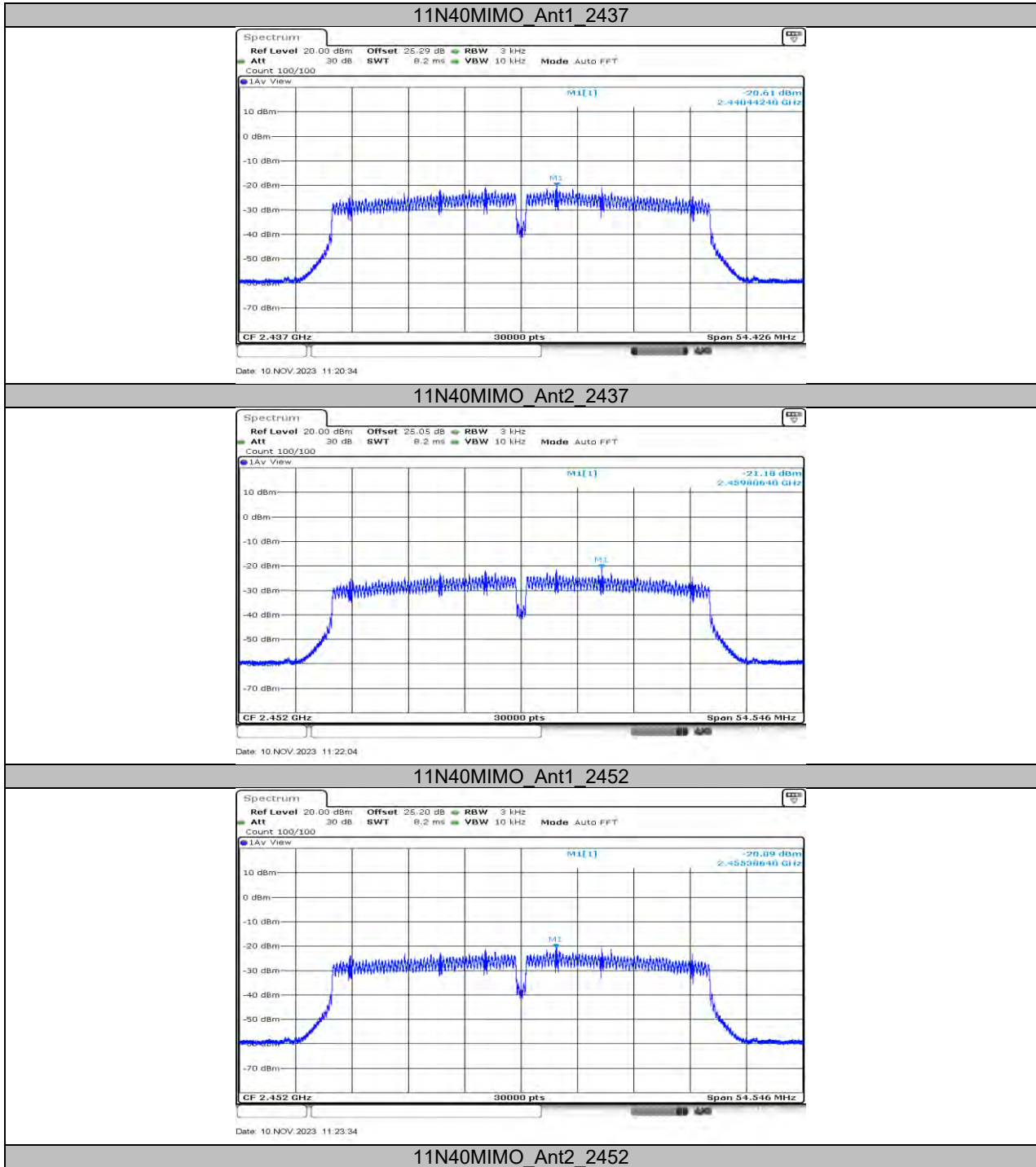


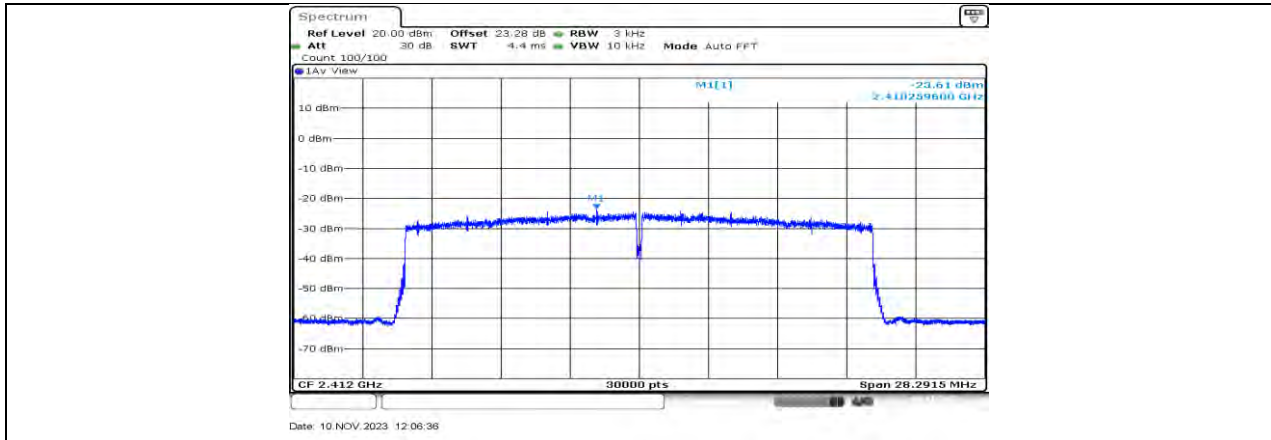
11N40MIMO Ant1 2422



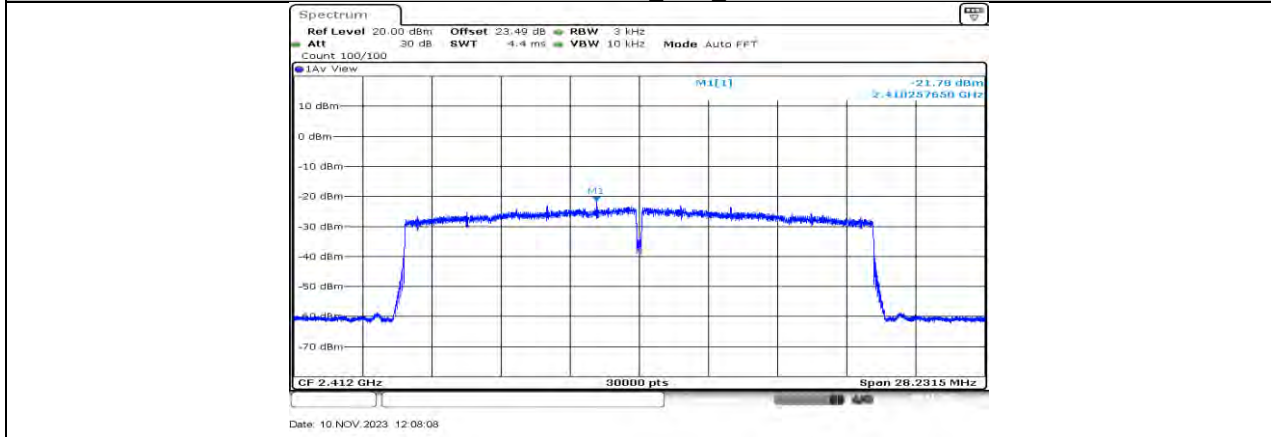
11N40MIMO Ant2 2422



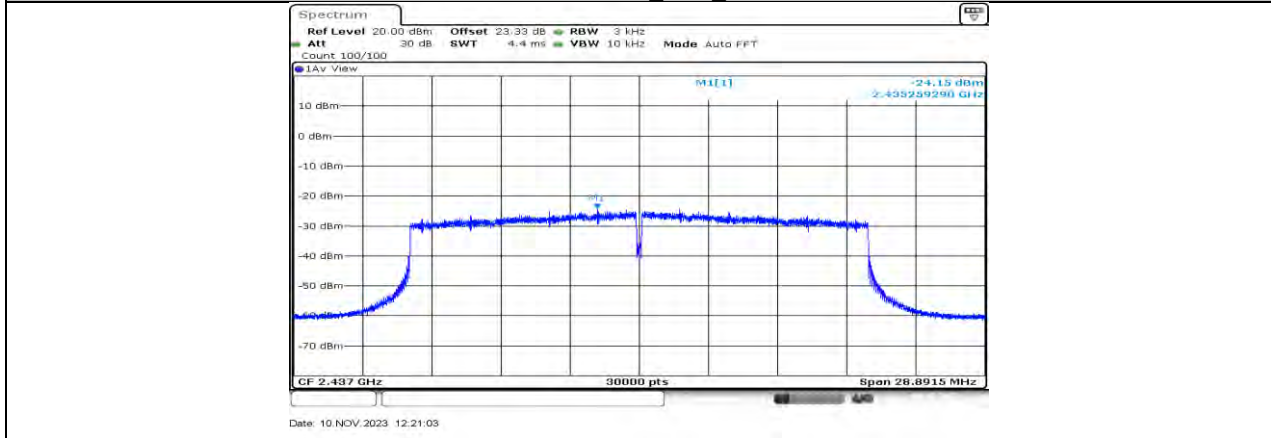




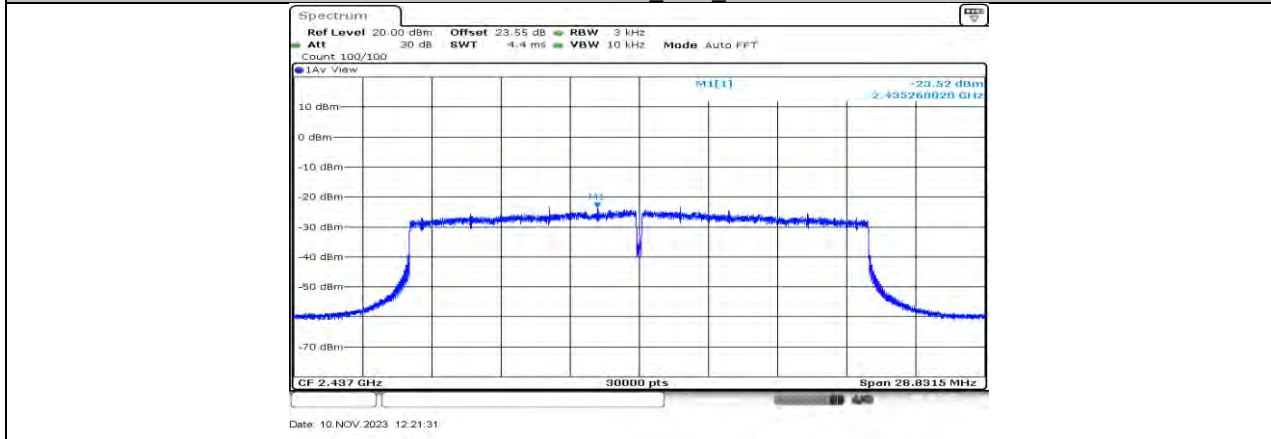
11AX20MIMO_Ant1_2412

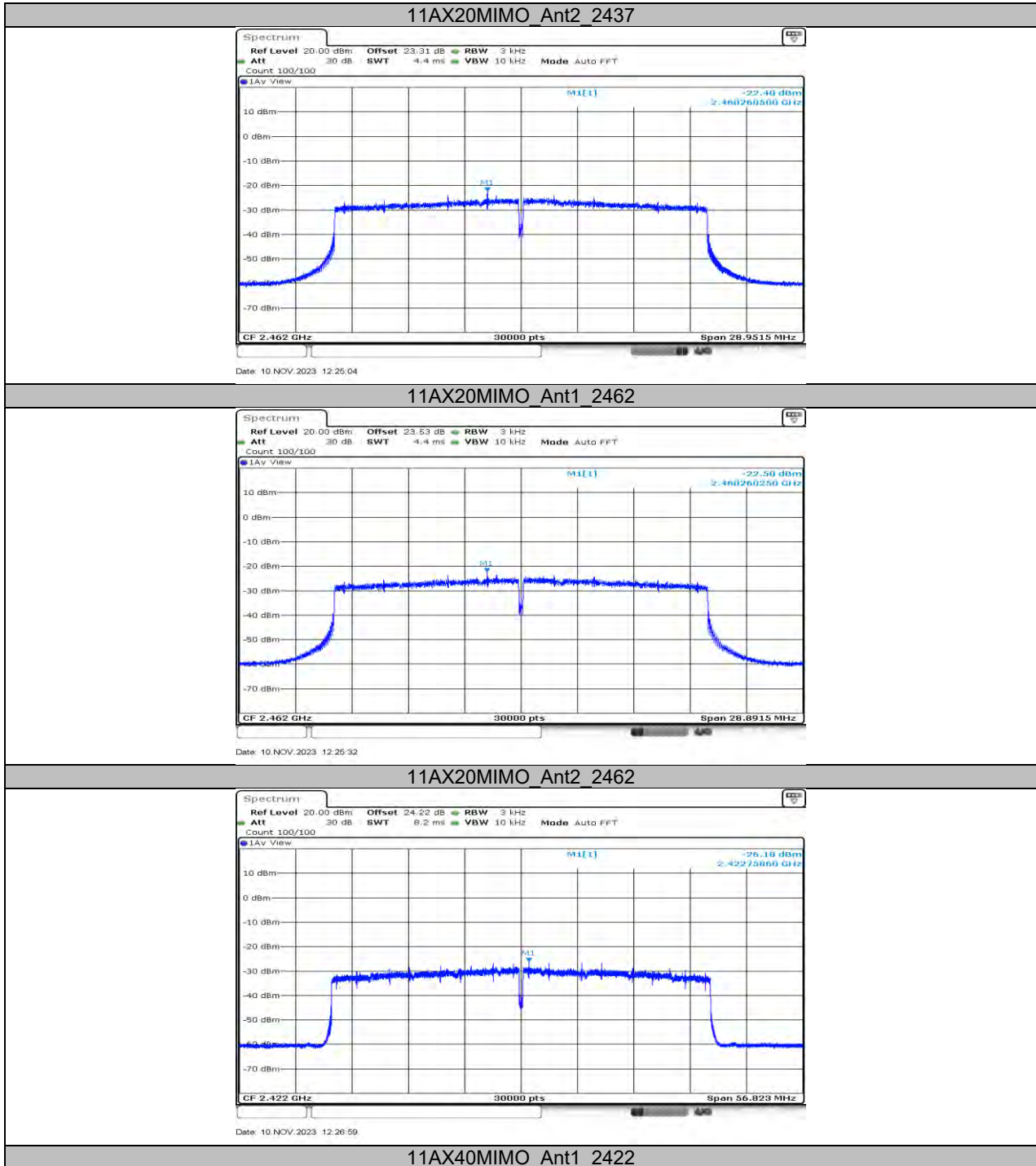


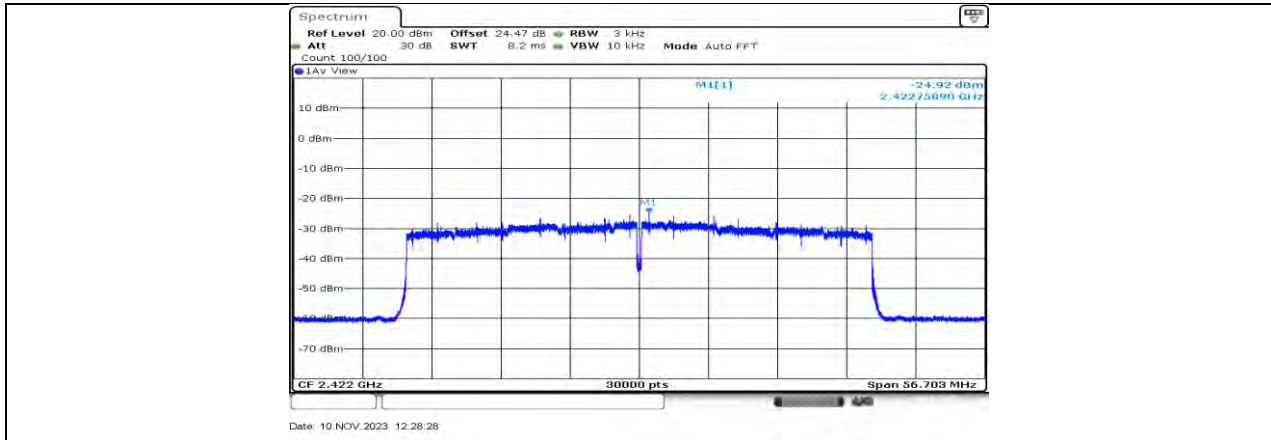
11AX20MIMO_Ant2_2412



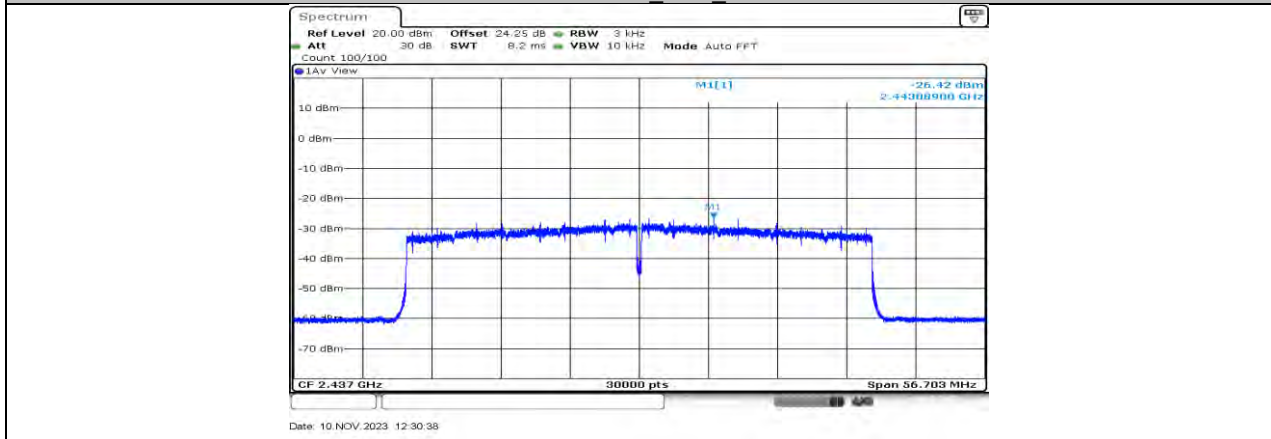
11AX20MIMO_Ant1_2437



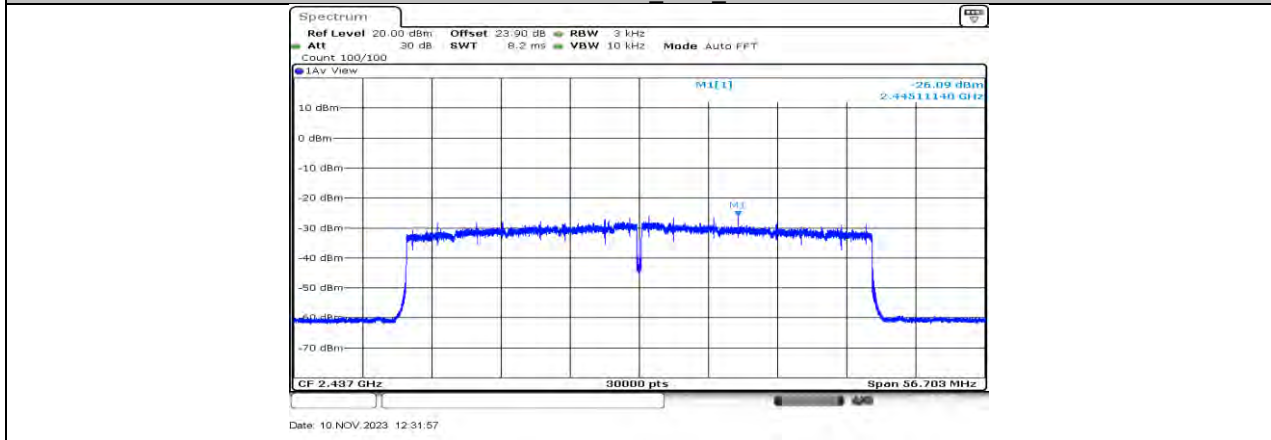




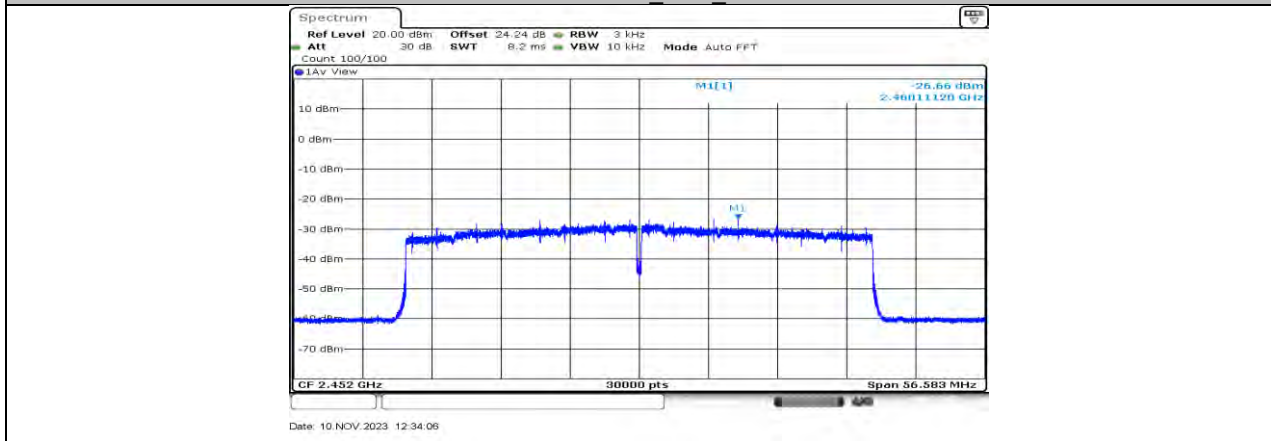
11AX40MIMO_Ant2_2422

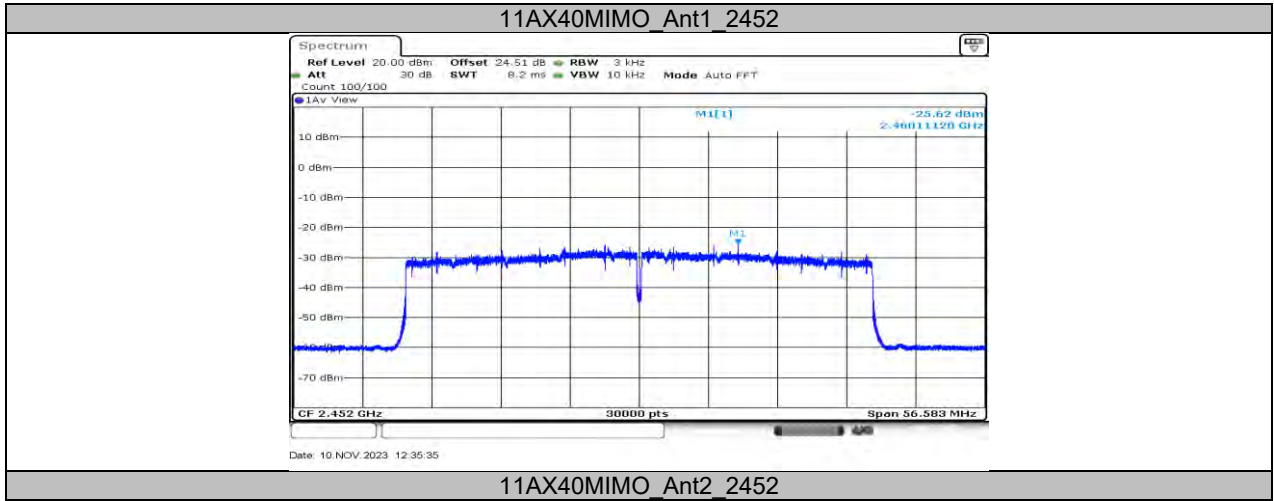


11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



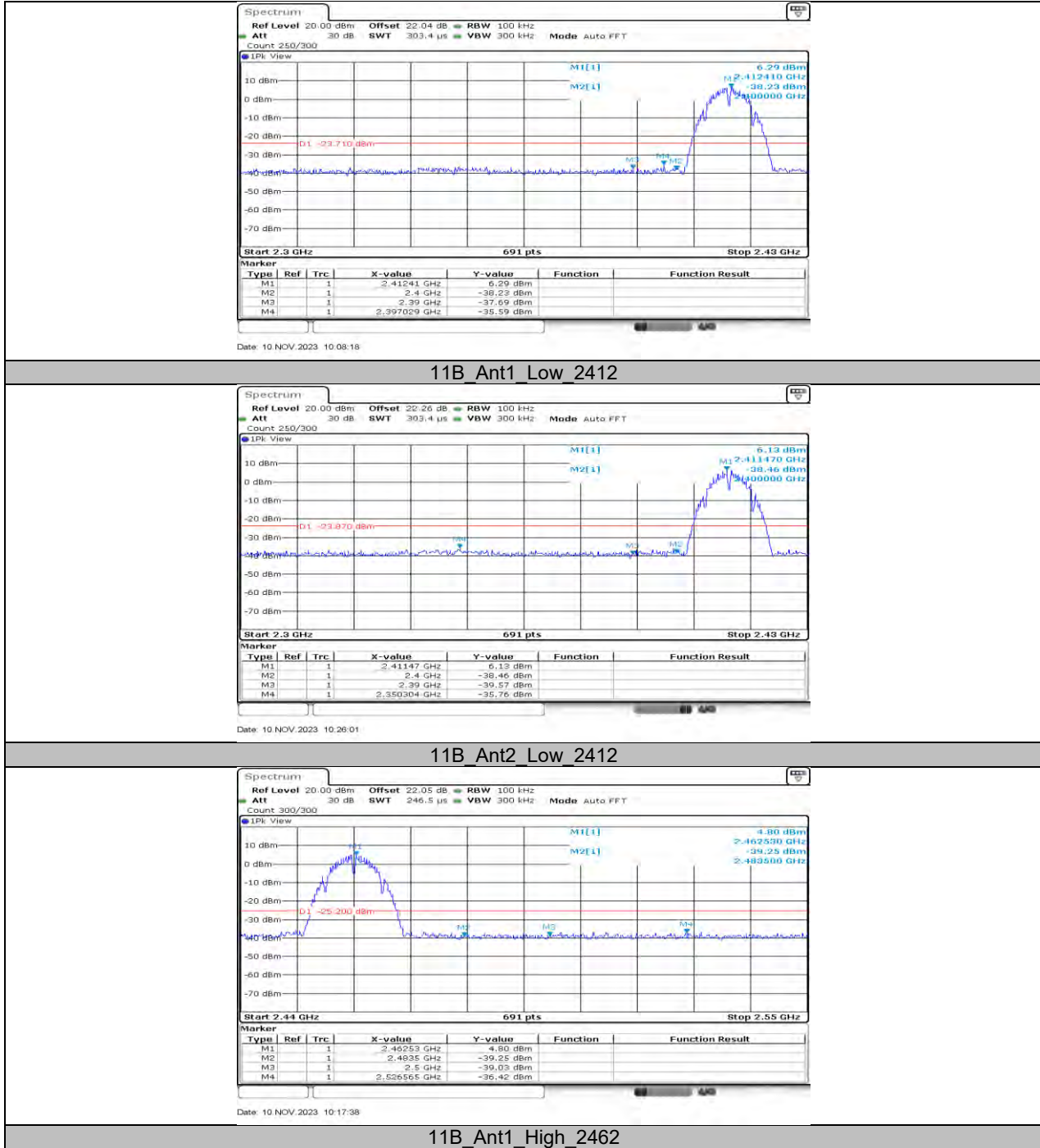


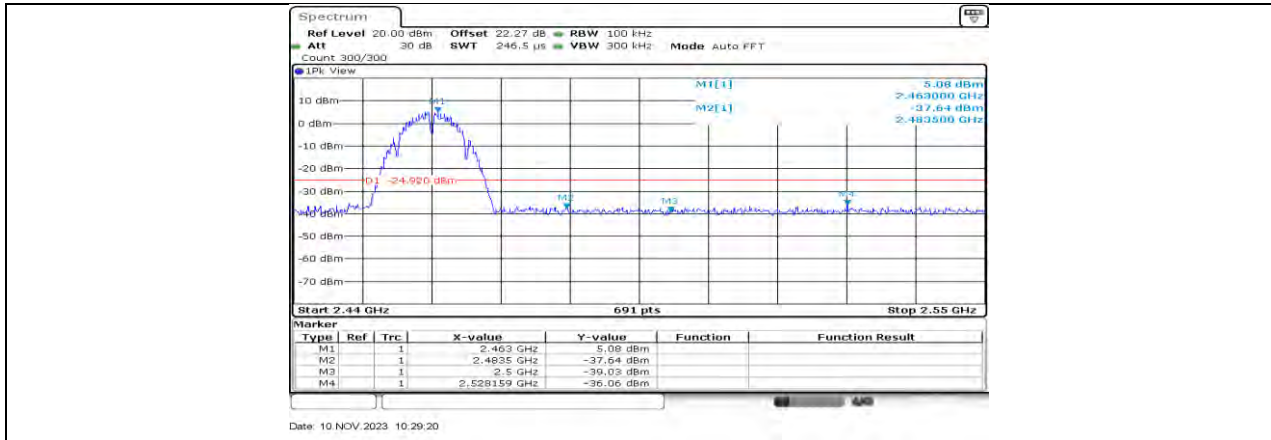
11.5. APPENDIX E: BAND EDGE MEASUREMENTS

11.5.1. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.29	-35.59	≤-23.71	PASS
	Ant2	Low	2412	6.13	-35.76	≤-23.87	PASS
	Ant1	High	2462	4.80	-36.42	≤-25.2	PASS
	Ant2	High	2462	5.08	-36.06	≤-24.92	PASS
11G	Ant1	Low	2412	0.51	-35.88	≤-29.49	PASS
	Ant2	Low	2412	4.69	-36.2	≤-25.31	PASS
	Ant1	High	2462	2.61	-36.3	≤-27.39	PASS
	Ant2	High	2462	3.53	-36.45	≤-26.47	PASS
11N20MIMO	Ant1	Low	2412	1.48	-36.12	≤-28.52	PASS
	Ant2	Low	2412	4.72	-35.19	≤-25.28	PASS
	Ant1	High	2462	0.46	-36.03	≤-29.54	PASS
	Ant2	High	2462	3.54	-36.28	≤-26.46	PASS
11N40MIMO	Ant1	Low	2422	-1.03	-36.54	≤-31.03	PASS
	Ant2	Low	2422	0.28	-36.34	≤-29.72	PASS
	Ant1	High	2452	-0.01	-35.91	≤-30.01	PASS
	Ant2	High	2452	0.54	-35.06	≤-29.46	PASS
11AX20MIMO	Ant1	Low	2412	-3.12	-36.68	≤-33.12	PASS
	Ant2	Low	2412	-0.04	-35.14	≤-30.04	PASS
	Ant1	High	2462	-2.12	-36.82	≤-32.12	PASS
	Ant2	High	2462	-3.00	-36.71	≤-33	PASS
11AX40MIMO	Ant1	Low	2422	-4.30	-36.74	≤-34.3	PASS
	Ant2	Low	2422	-3.54	-36.72	≤-33.54	PASS
	Ant1	High	2452	-4.04	-35.84	≤-34.04	PASS
	Ant2	High	2452	-4.28	-35.5	≤-34.28	PASS

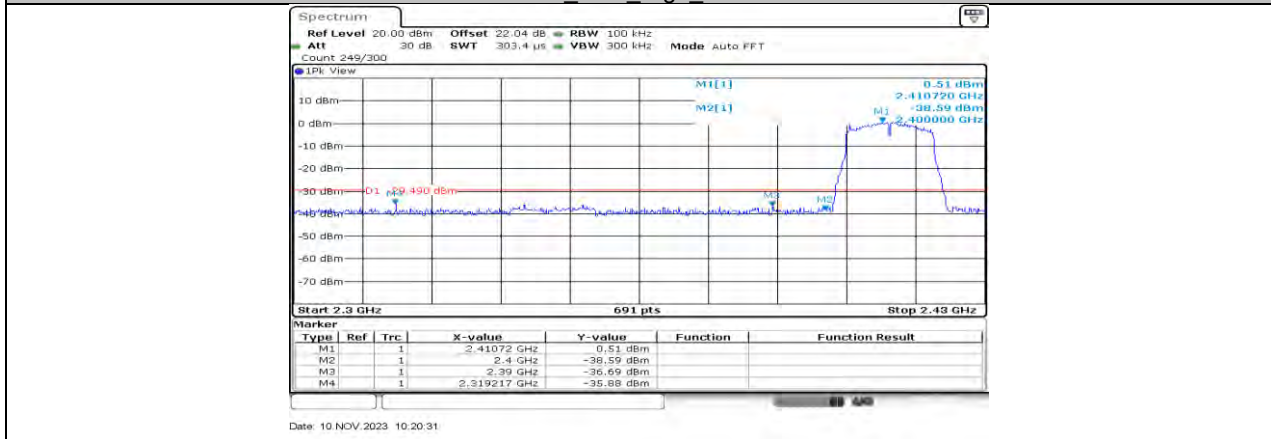
11.5.2. Test Graphs





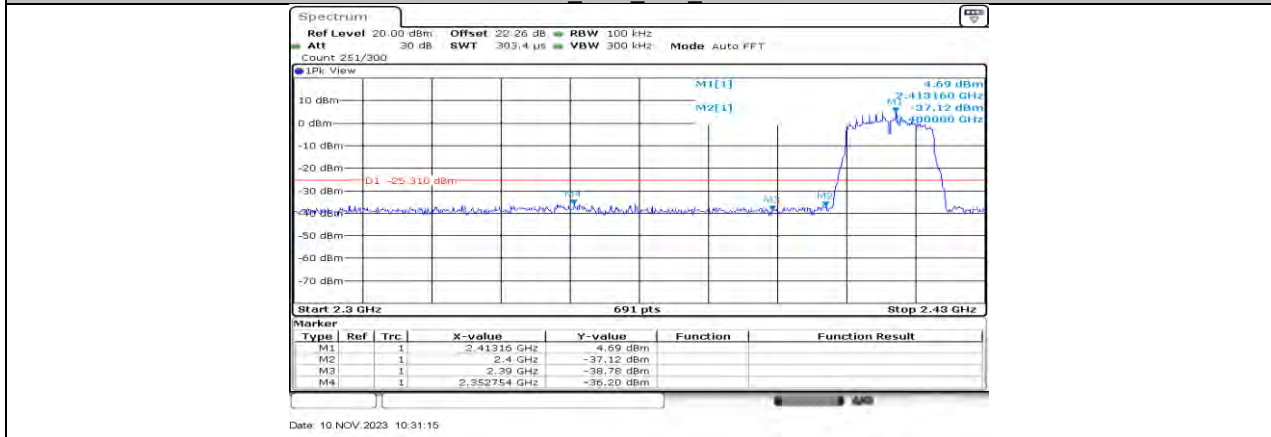
Date: 10 NOV. 2023 10:29:20

11B Ant2 High 2462



Date: 10 NOV. 2023 10:20:31

11G Ant1 Low 2412



Date: 10 NOV. 2023 10:31:15

11G Ant2 Low 2412

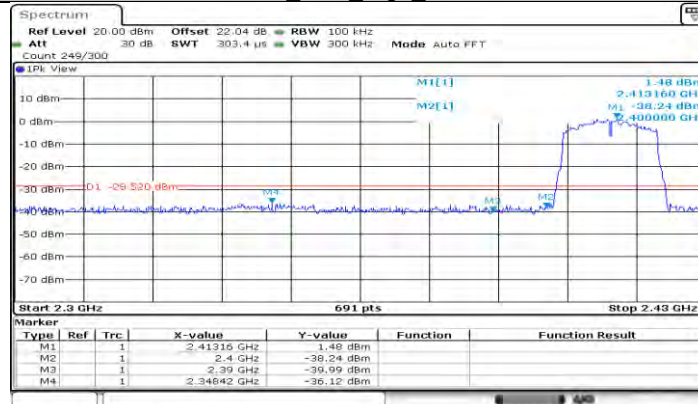


Date: 10 NOV. 2023 10:23:58

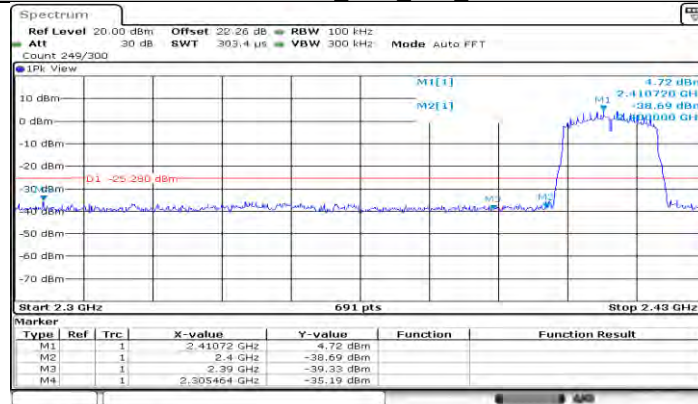
11G Ant1_High 2462



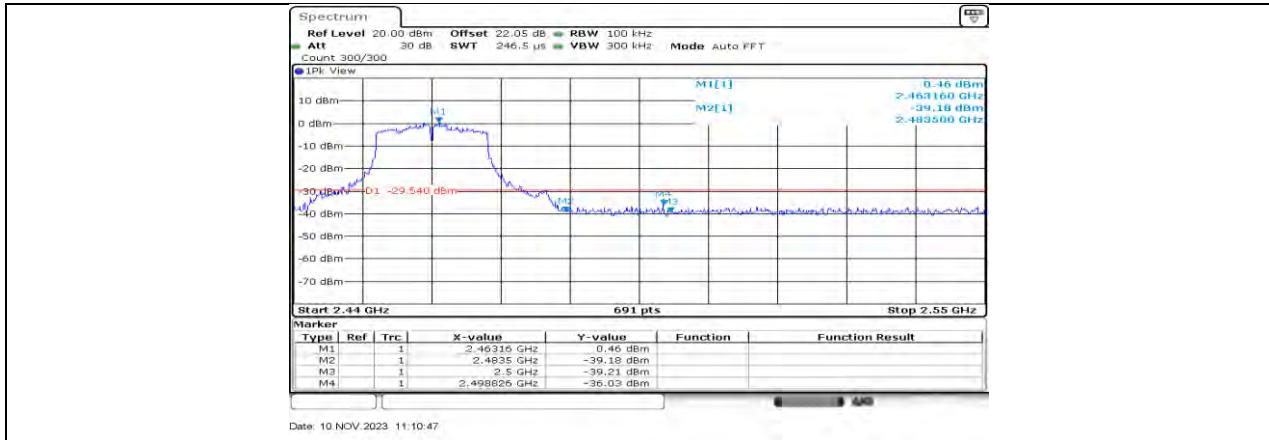
11G Ant2_High 2462



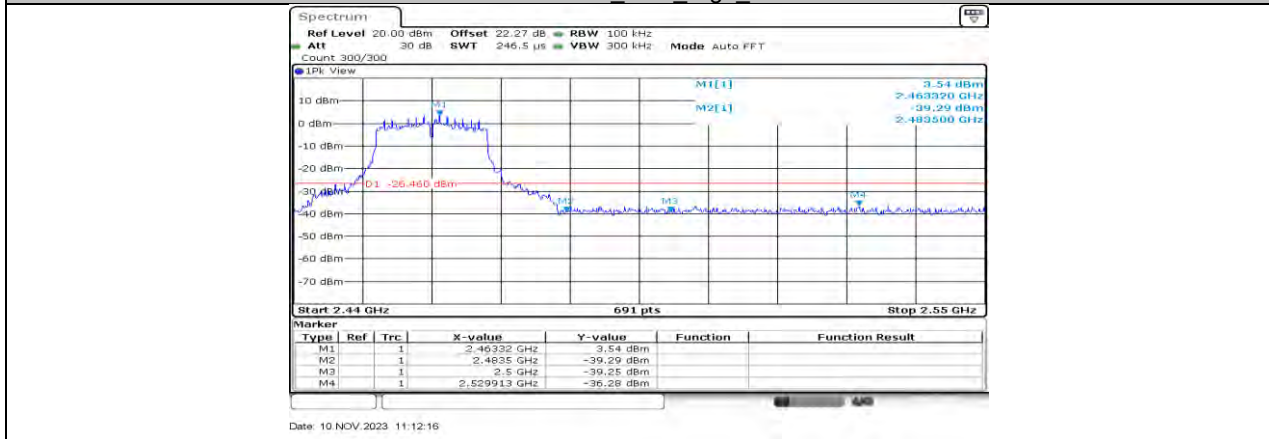
11N20MIMO Ant1_Low 2412



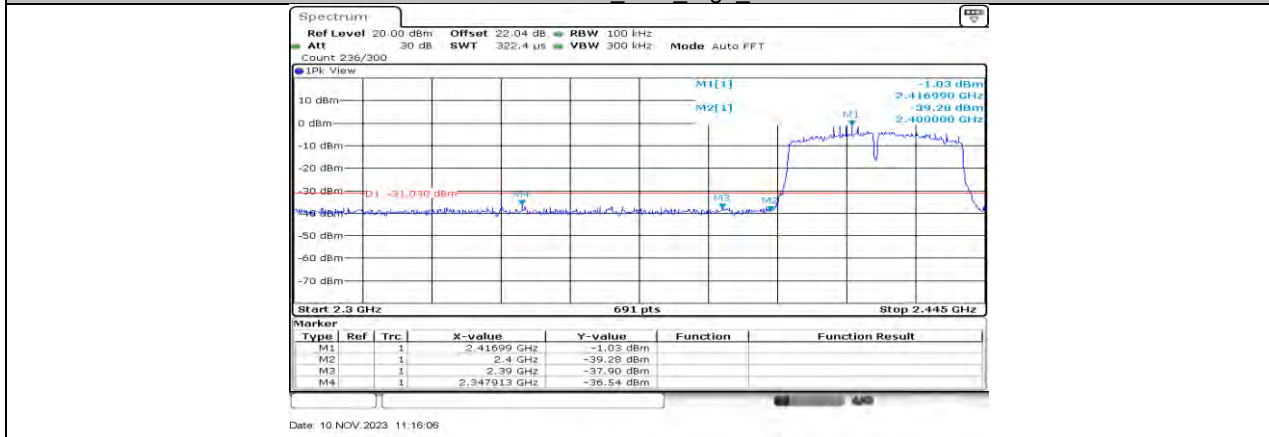
11N20MIMO Ant2_Low 2412



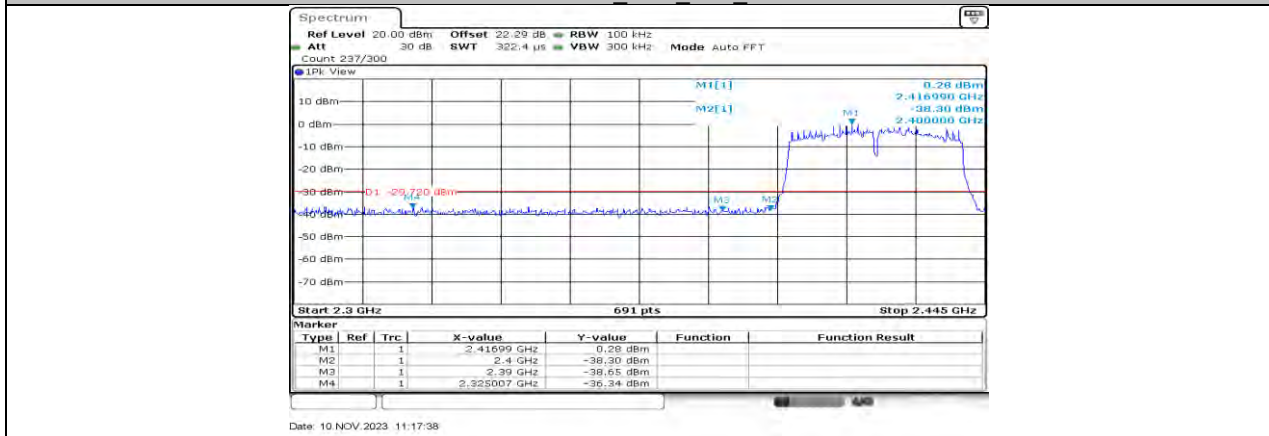
11N20MIMO Ant1 High 2462



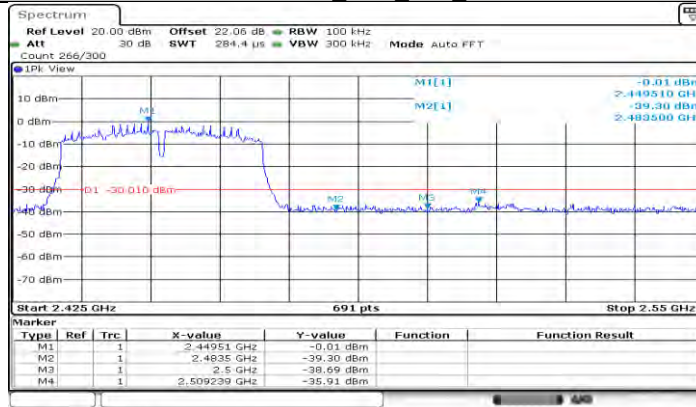
11N20MIMO Ant2 High 2462



11N40MIMO Ant1 Low 2422



11N40MIMO_Ant2_Low_2422



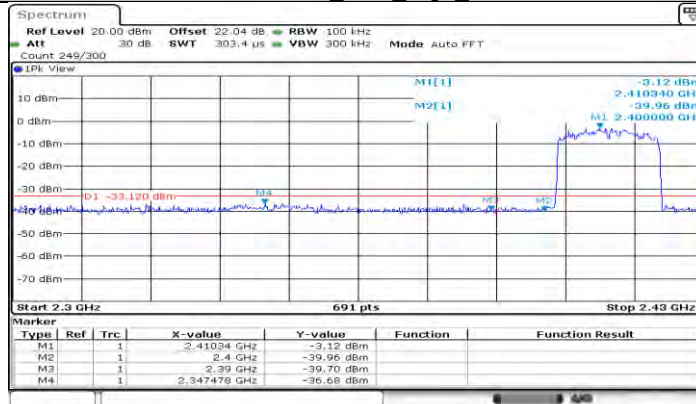
Date: 10 NOV 2023 11:22:14

11N40MIMO_Ant1_High_2452



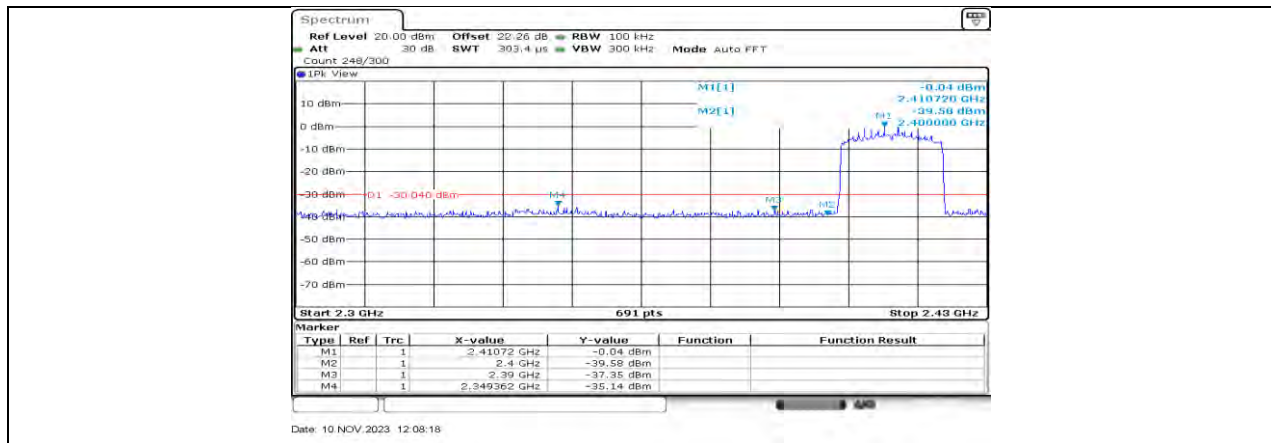
Date: 10 NOV 2023 11:23:44

11N40MIMO_Ant2_High_2452

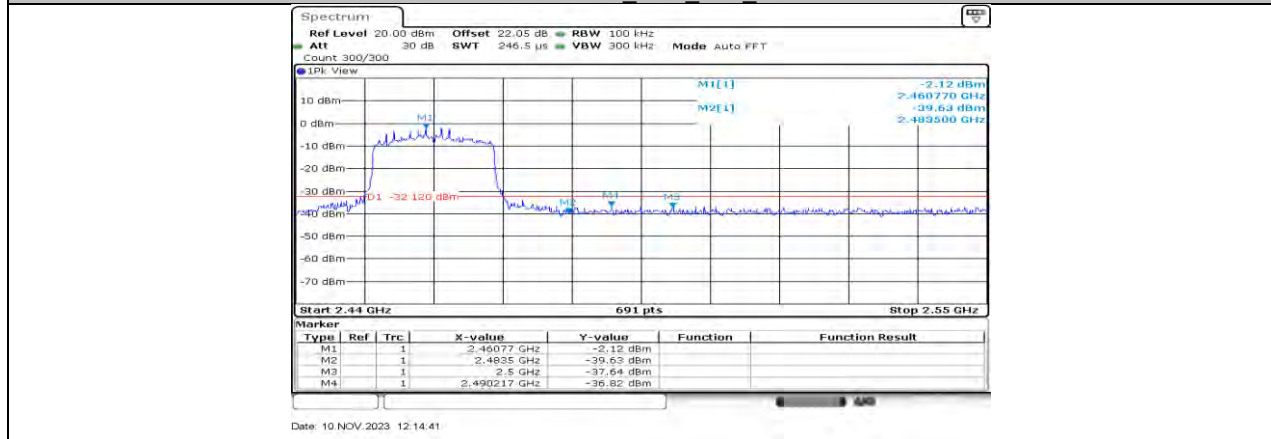


Date: 10 NOV 2023 12:00:48

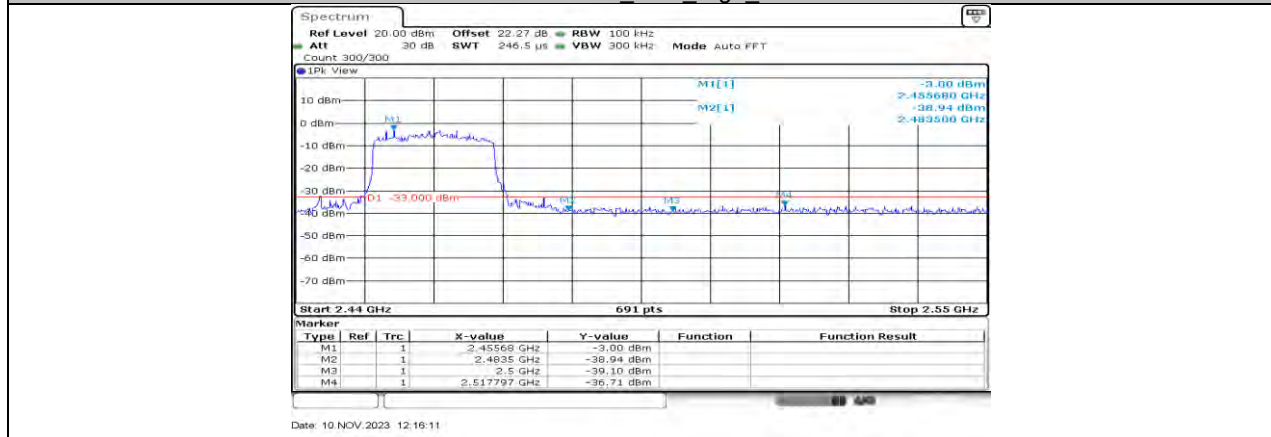
11AX20MIMO_Ant1_Low_2412



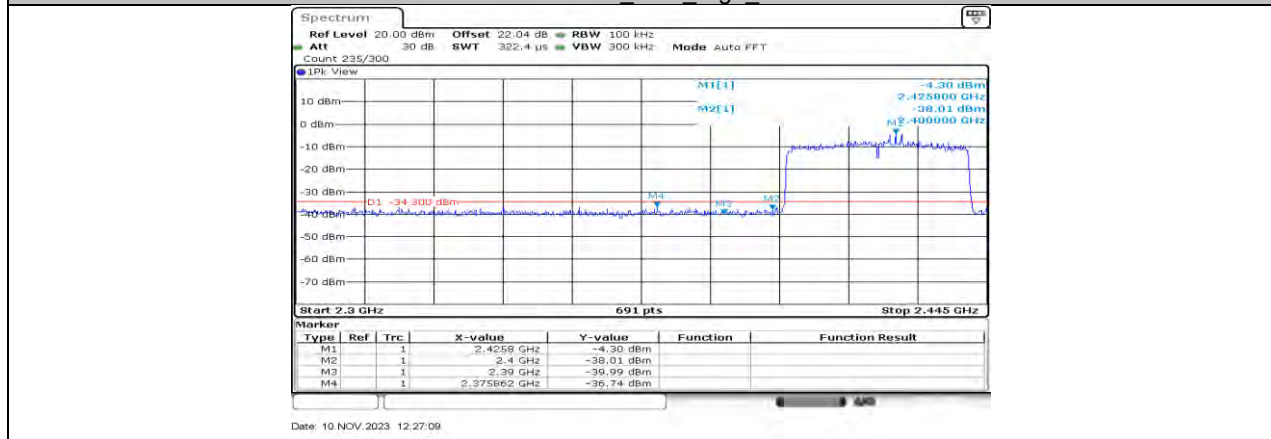
11AX20MIMO Ant2 Low 2412



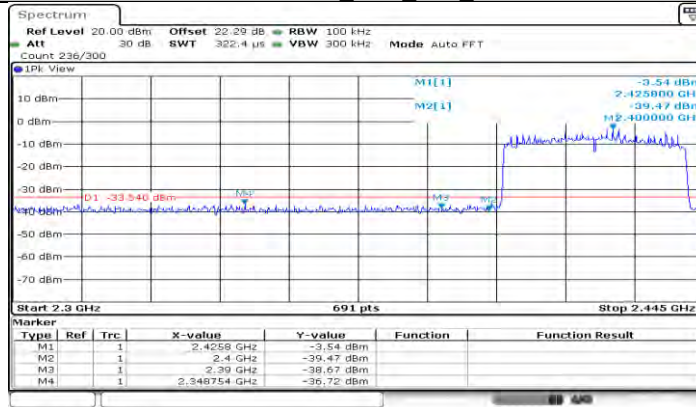
11AX20MIMO Ant1 High 2462



11AX20MIMO Ant2 High 2462

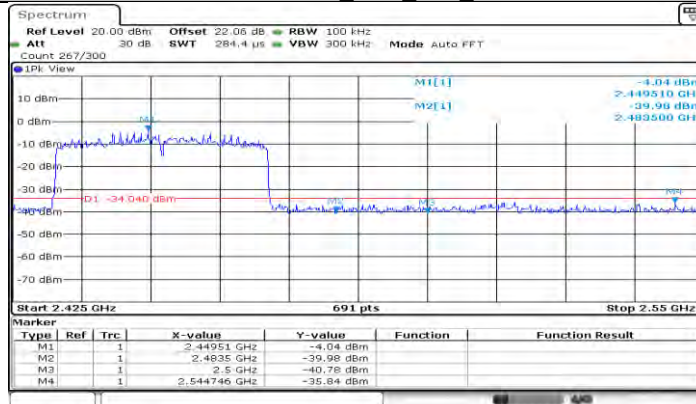


11AX40MIMO_Ant1_Low_2422



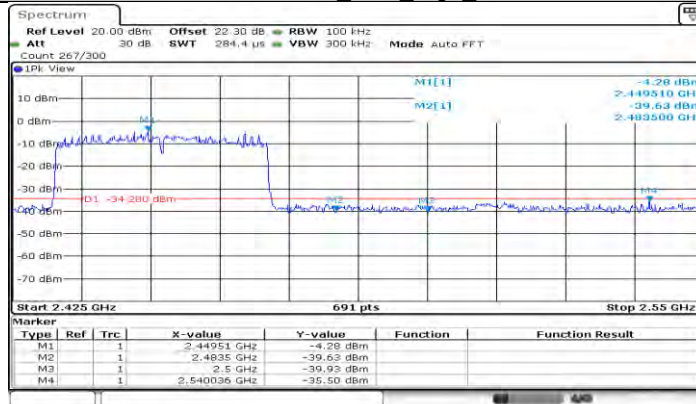
Date: 10 NOV 2023 12:28:38

11AX40MIMO_Ant2_Low_2422



Date: 10 NOV 2023 12:34:16

11AX40MIMO_Ant1_High_2452



Date: 10 NOV 2023 12:35:48

11AX40MIMO_Ant2_High_2452

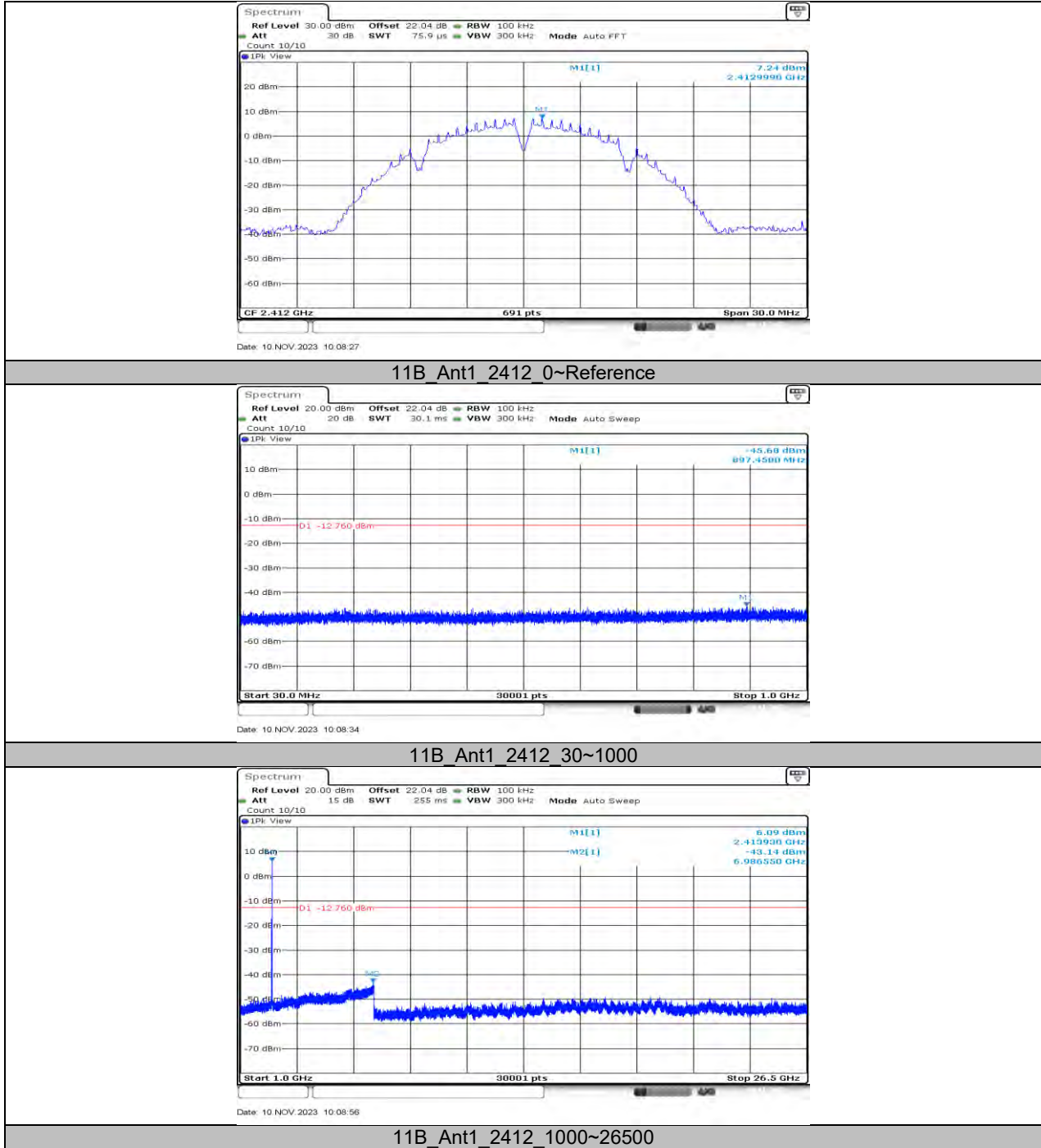
11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

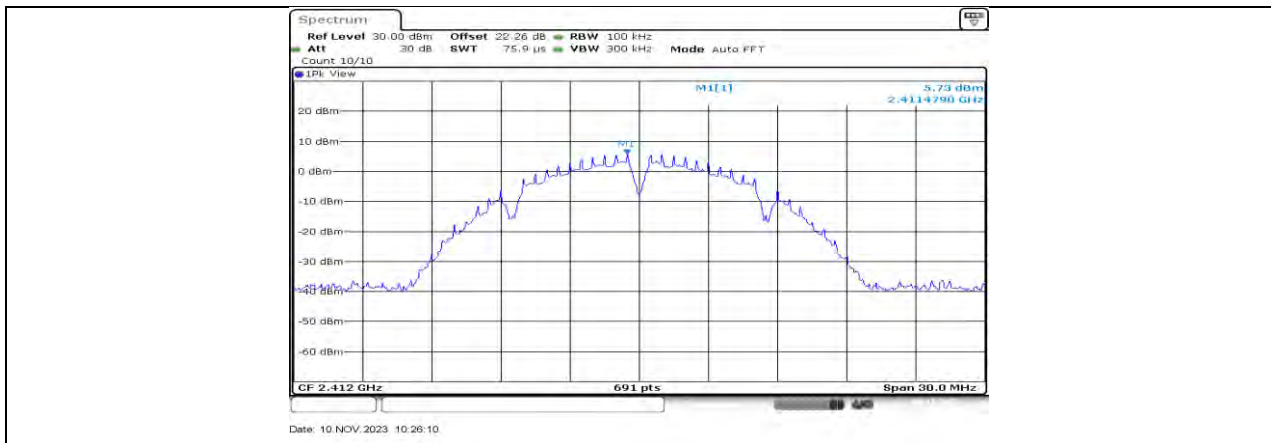
11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict	
11B	Ant1	2412	Reference	7.24	---	PASS	
			30~1000	-45.68	≤-12.76	PASS	
			1000~26500	-43.14	≤-12.76	PASS	
	Ant2	2412	Reference	5.73	---	PASS	
			30~1000	-45.06	≤-14.27	PASS	
			1000~26500	-43.76	≤-14.27	PASS	
	Ant1	2437	Reference	5.42	---	PASS	
			30~1000	-45.32	≤-14.58	PASS	
			1000~26500	-43.45	≤-14.58	PASS	
	Ant2	2437	Reference	5.90	---	PASS	
			30~1000	-44.76	≤-14.1	PASS	
			1000~26500	-43.42	≤-14.1	PASS	
	Ant1	2462	Reference	4.93	---	PASS	
			30~1000	-45.68	≤-15.07	PASS	
			1000~26500	-43.27	≤-15.07	PASS	
	Ant2	2462	Reference	6.15	---	PASS	
			30~1000	-44.65	≤-13.85	PASS	
			1000~26500	-43.16	≤-13.85	PASS	
	11G	Ant1	2412	Reference	3.65	---	PASS
				30~1000	-45.23	≤-16.35	PASS
				1000~26500	-44.24	≤-16.35	PASS
		Ant2	2412	Reference	4.84	---	PASS
				30~1000	-45.36	≤-15.16	PASS
				1000~26500	-42.91	≤-15.16	PASS
Ant1		2437	Reference	1.56	---	PASS	
			30~1000	-44.75	≤-18.44	PASS	
			1000~26500	-43.11	≤-18.44	PASS	
Ant2		2437	Reference	3.30	---	PASS	
			30~1000	-45.58	≤-16.7	PASS	
			1000~26500	-42.57	≤-16.7	PASS	
Ant1		2462	Reference	2.51	---	PASS	
			30~1000	-45.55	≤-17.49	PASS	
			1000~26500	-43.77	≤-17.49	PASS	
Ant2		2462	Reference	3.72	---	PASS	
			30~1000	-44.96	≤-16.28	PASS	
			1000~26500	-43.64	≤-16.28	PASS	
11N20MIMO		Ant1	2412	Reference	3.66	---	PASS
				30~1000	-45.3	≤-16.34	PASS
				1000~26500	-43.12	≤-16.34	PASS
		Ant2	2412	Reference	5.00	---	PASS
				30~1000	-45	≤-15	PASS
				1000~26500	-43.53	≤-15	PASS
	Ant1	2437	Reference	2.71	---	PASS	
			30~1000	-45.86	≤-17.29	PASS	
			1000~26500	-43.63	≤-17.29	PASS	
	Ant2	2437	Reference	3.25	---	PASS	
			30~1000	-45.02	≤-16.75	PASS	
			1000~26500	-43.29	≤-16.75	PASS	
	Ant1	2462	Reference	2.81	---	PASS	
			30~1000	-45.22	≤-17.19	PASS	
			1000~26500	-43.52	≤-17.19	PASS	
	Ant2	2462	Reference	3.55	---	PASS	
			30~1000	-44.97	≤-16.45	PASS	
			1000~26500	-43.05	≤-16.45	PASS	
	11N40MIMO	Ant1	2422	Reference	-0.96	---	PASS
				30~1000	-45.64	≤-20.96	PASS
				1000~26500	-42.96	≤-20.96	PASS
		Ant2	2422	Reference	0.71	---	PASS

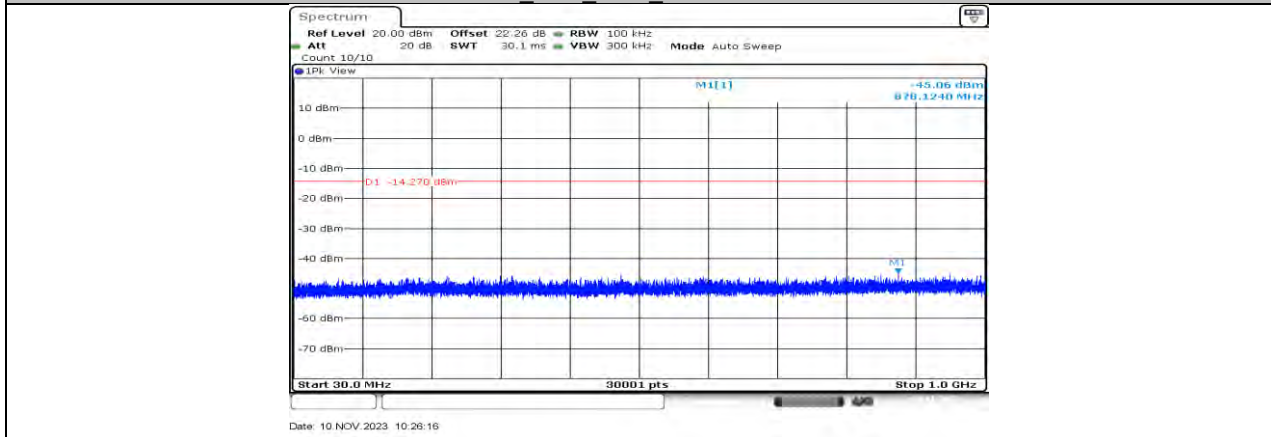
	Ant1	2437	30~1000	-45.33	≤ -19.29	PASS
			1000~26500	-43.37	≤ -19.29	PASS
			Reference	-1.00	---	PASS
			30~1000	-44.89	≤ -21	PASS
			1000~26500	-43.58	≤ -21	PASS
			Reference	0.63	---	PASS
	Ant2	2437	30~1000	-45.04	≤ -19.37	PASS
			1000~26500	-42.67	≤ -19.37	PASS
			Reference	-0.07	---	PASS
	Ant1	2452	30~1000	-45.25	≤ -20.07	PASS
			1000~26500	-43.17	≤ -20.07	PASS
			Reference	0.30	---	PASS
Ant2	2452	30~1000	-45.45	≤ -19.7	PASS	
		1000~26500	-42.78	≤ -19.7	PASS	
		Reference	-1.19	---	PASS	
11AX20MIMO	Ant1	2412	30~1000	-45.77	≤ -21.19	PASS
			1000~26500	-43.76	≤ -21.19	PASS
			Reference	-0.21	---	PASS
	Ant2	2412	30~1000	-45.67	≤ -20.21	PASS
			1000~26500	-43.26	≤ -20.21	PASS
			Reference	-2.11	---	PASS
	Ant1	2437	30~1000	-45.33	≤ -22.11	PASS
			1000~26500	-43.86	≤ -22.11	PASS
			Reference	-1.30	---	PASS
	Ant2	2437	30~1000	-45.53	≤ -21.3	PASS
			1000~26500	-42.58	≤ -21.3	PASS
			Reference	-4.37	---	PASS
	Ant1	2462	30~1000	-44.84	≤ -24.37	PASS
			1000~26500	-43.77	≤ -24.37	PASS
			Reference	-1.36	---	PASS
	Ant2	2462	30~1000	-44.94	≤ -21.36	PASS
			1000~26500	-43.55	≤ -21.36	PASS
			Reference	-6.34	---	PASS
11AX40MIMO	Ant1	2422	30~1000	-45.52	≤ -26.34	PASS
			1000~26500	-43.75	≤ -26.34	PASS
			Reference	-3.67	---	PASS
	Ant2	2422	30~1000	-44.8	≤ -23.67	PASS
			1000~26500	-43.38	≤ -23.67	PASS
			Reference	-4.17	---	PASS
	Ant1	2437	30~1000	-45.1	≤ -24.17	PASS
			1000~26500	-43.13	≤ -24.17	PASS
			Reference	-3.52	---	PASS
	Ant2	2437	30~1000	-44.84	≤ -23.52	PASS
			1000~26500	-43.03	≤ -23.52	PASS
			Reference	-3.85	---	PASS
	Ant1	2452	30~1000	-45.04	≤ -23.85	PASS
			1000~26500	-43.91	≤ -23.85	PASS
			Reference	-3.22	---	PASS
	Ant2	2452	30~1000	-44.77	≤ -23.22	PASS
			1000~26500	-43.71	≤ -23.22	PASS

11.6.2. Test Graphs

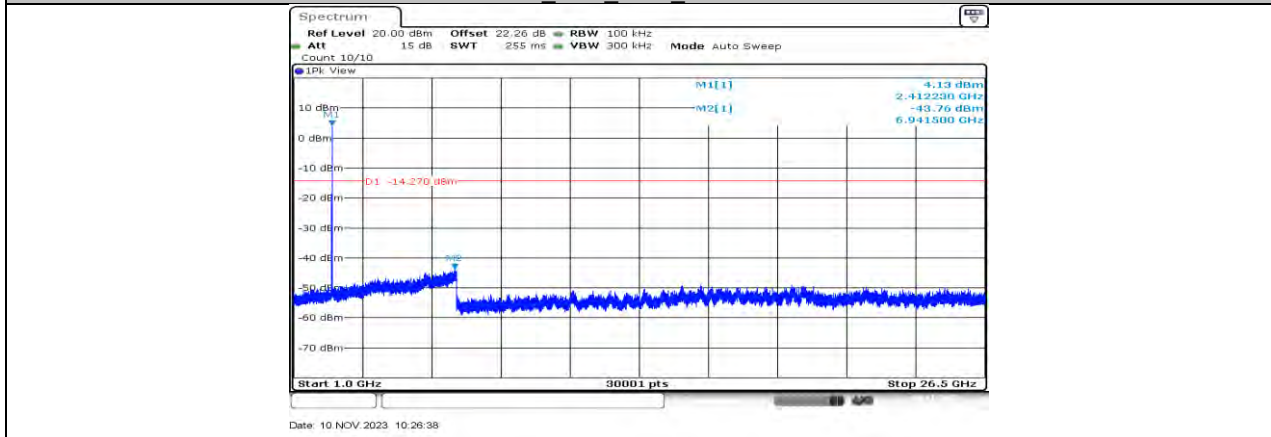




11B_Ant2_2412_0~Reference

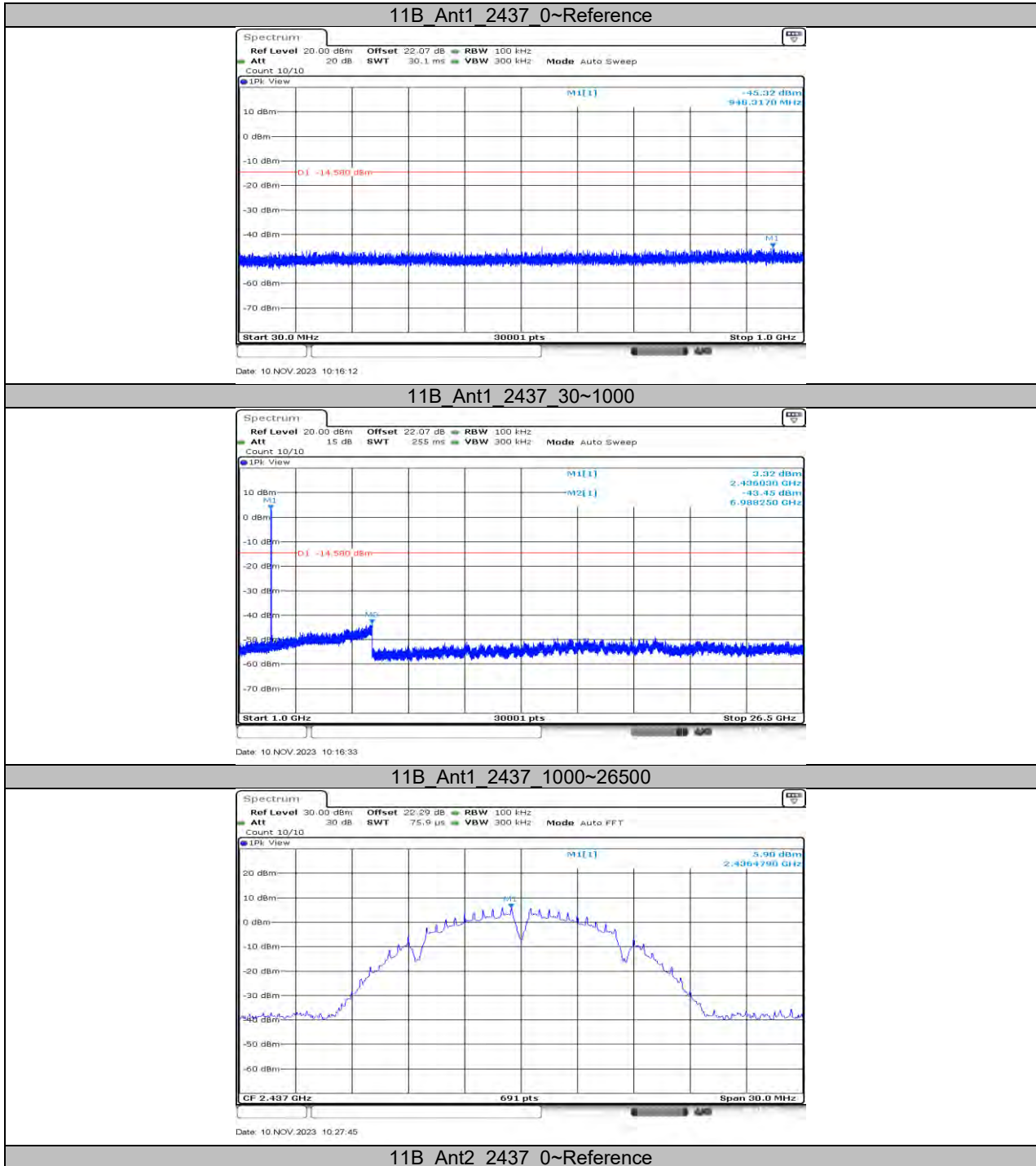


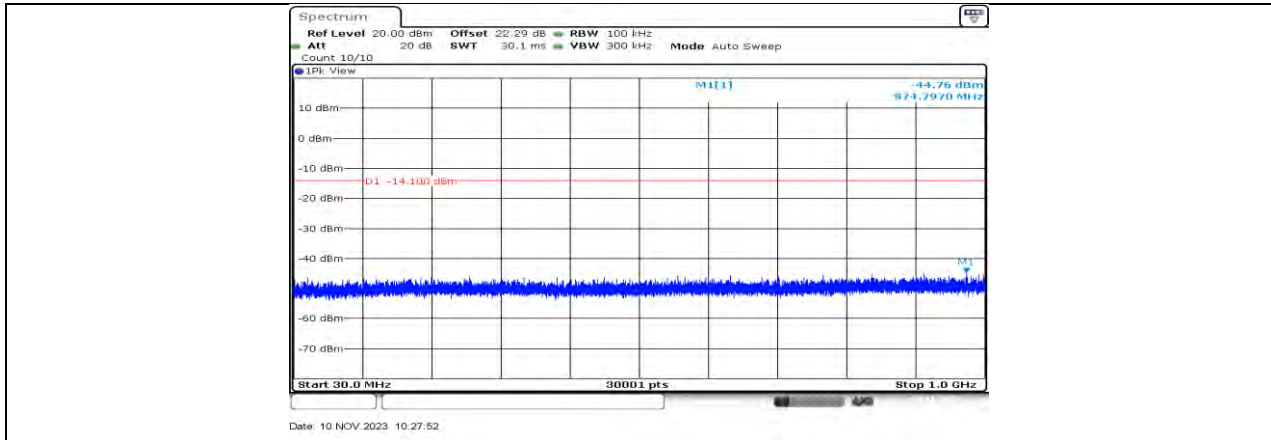
11B_Ant2_2412_30~1000



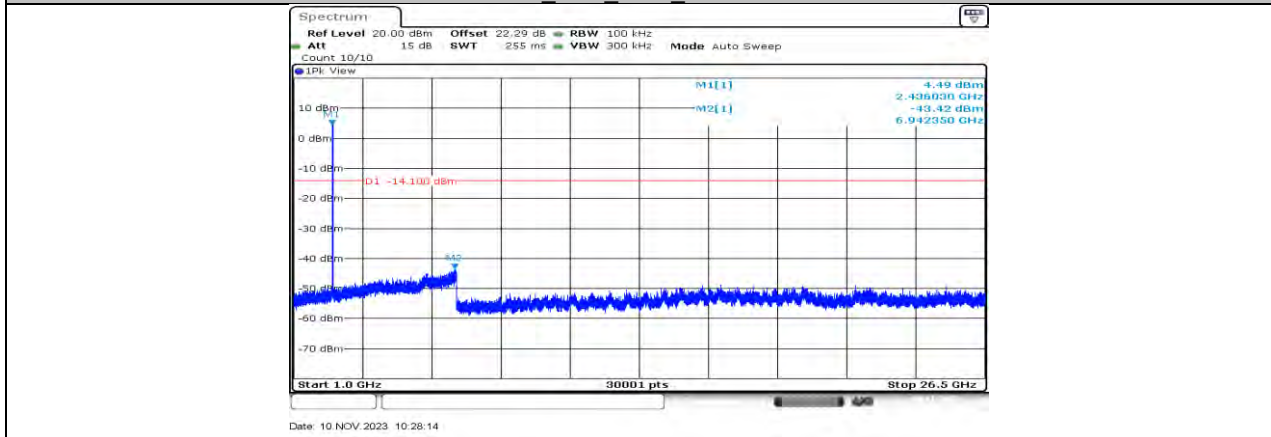
11B_Ant2_2412_1000~26500



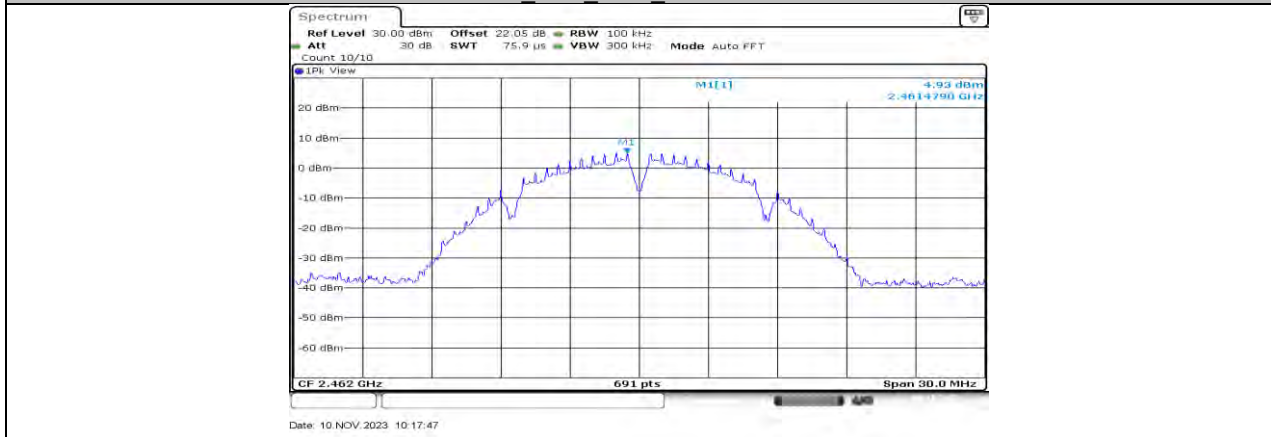




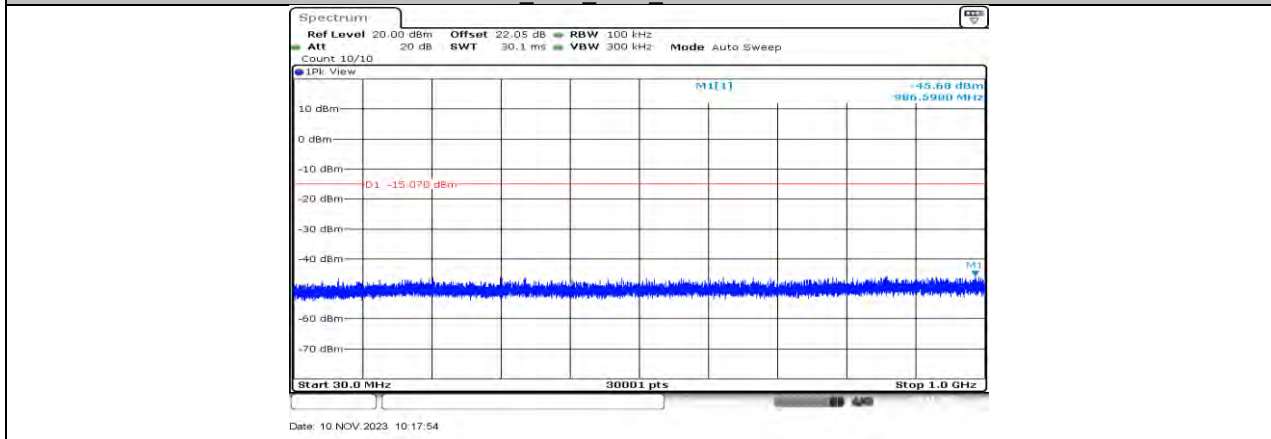
11B_Ant2_2437_30~1000

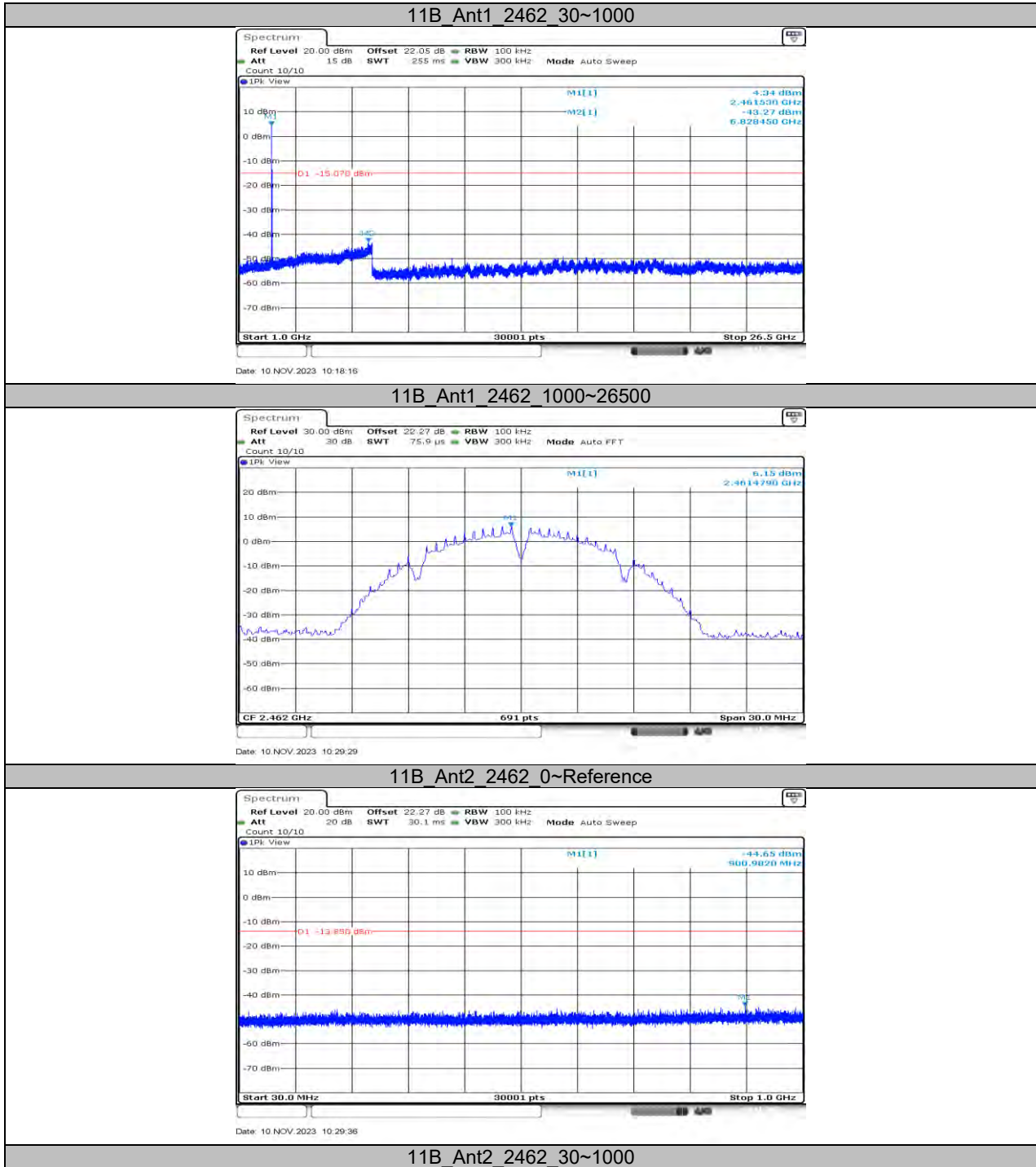


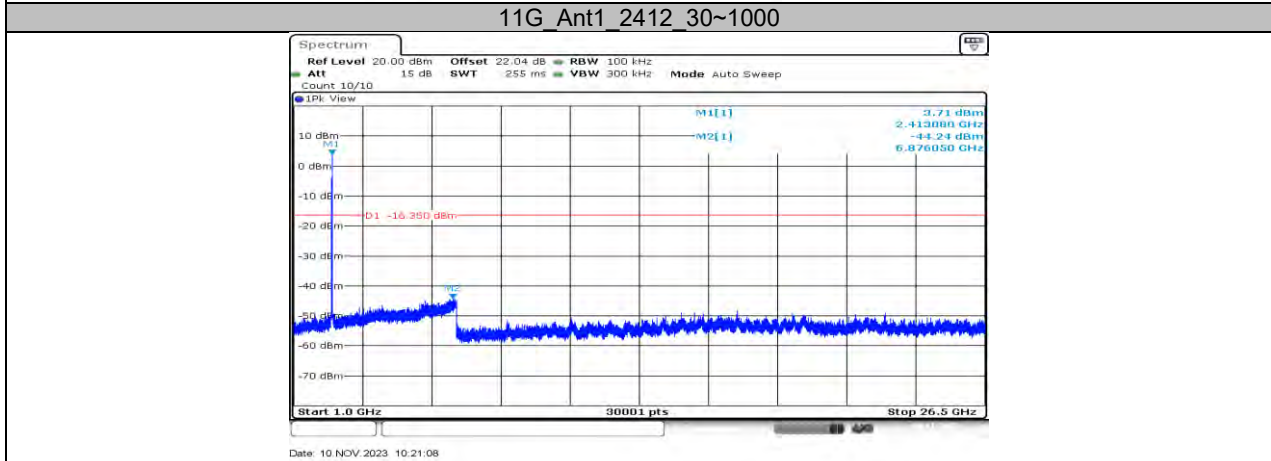
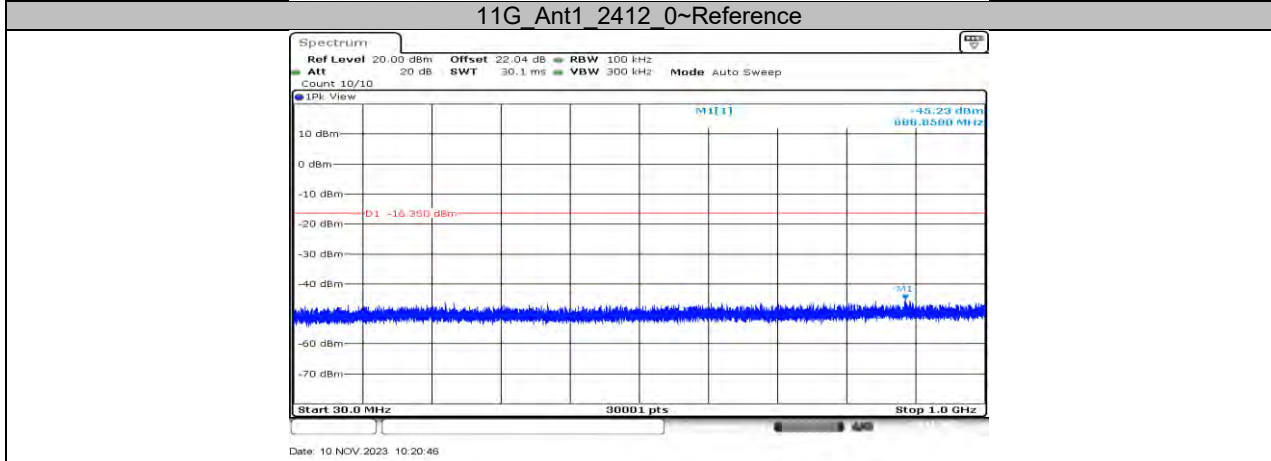
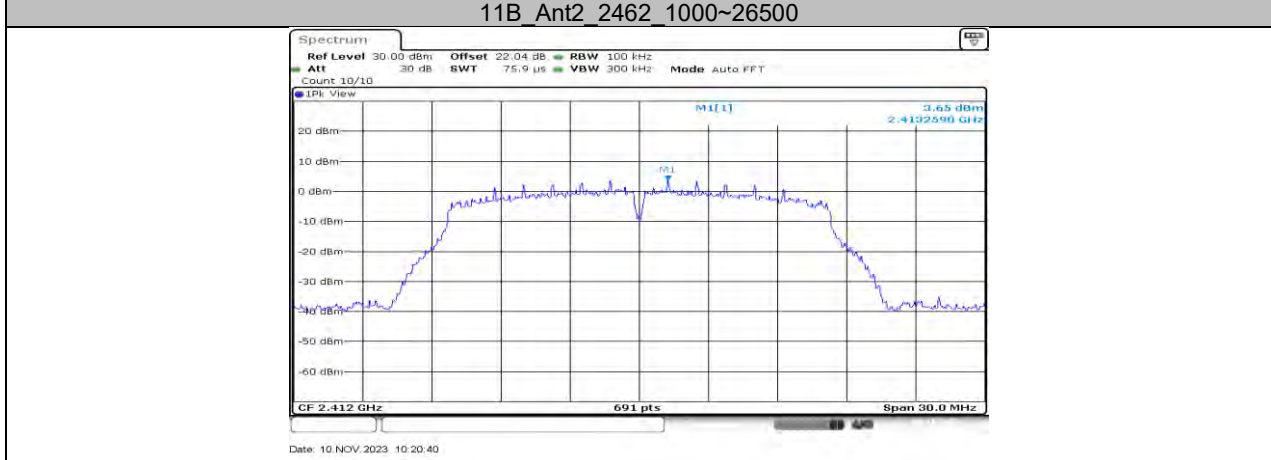
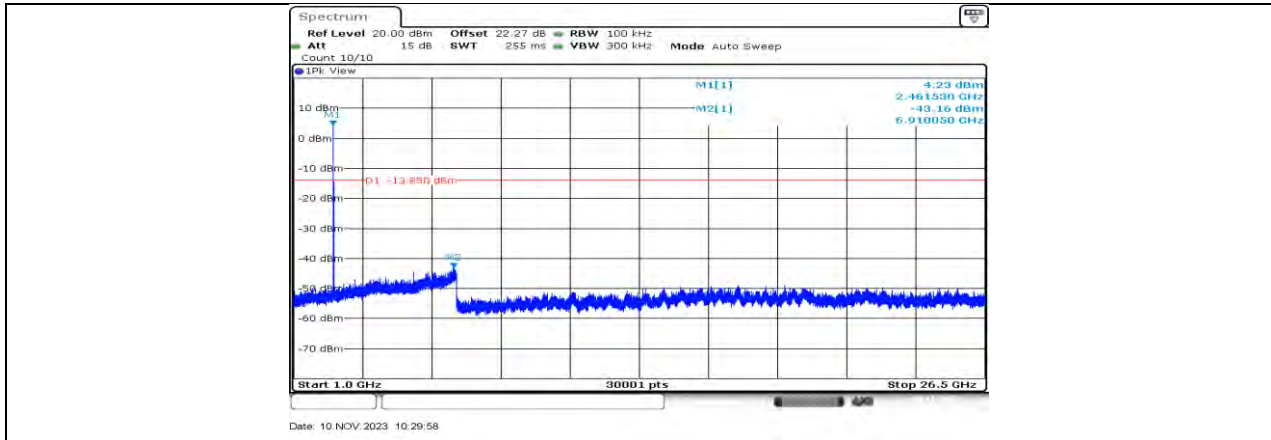
11B_Ant2_2437_1000~26500

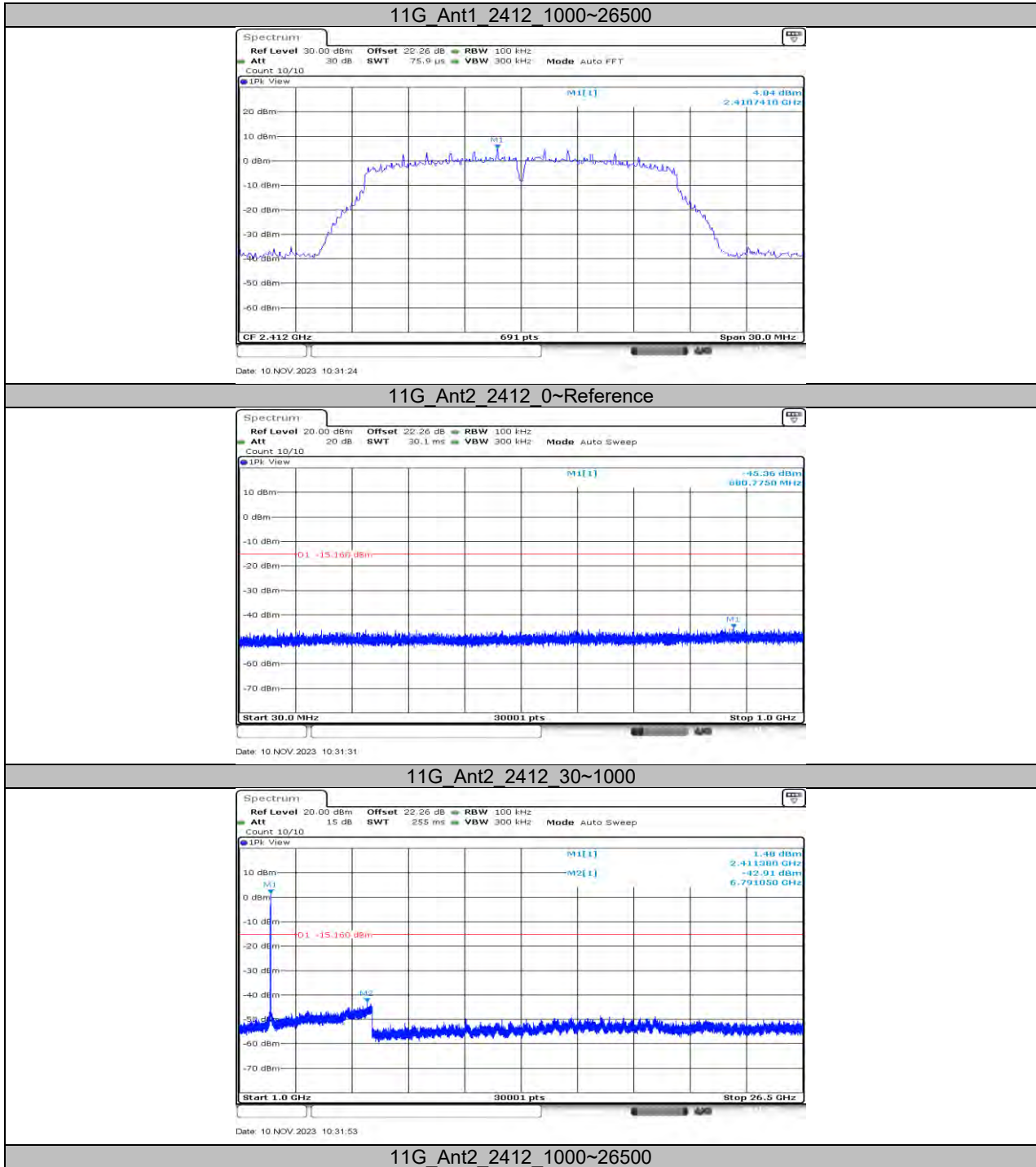


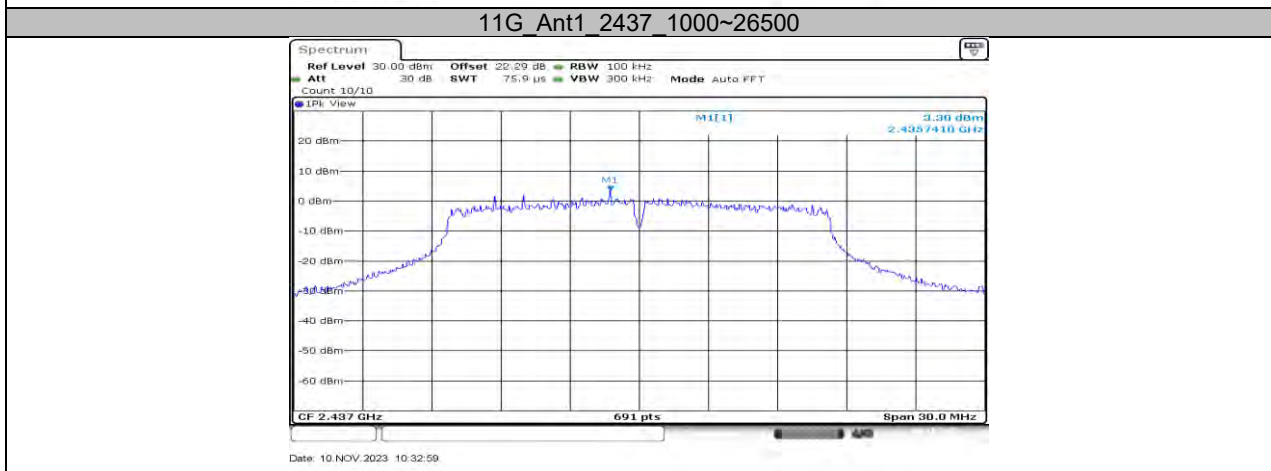
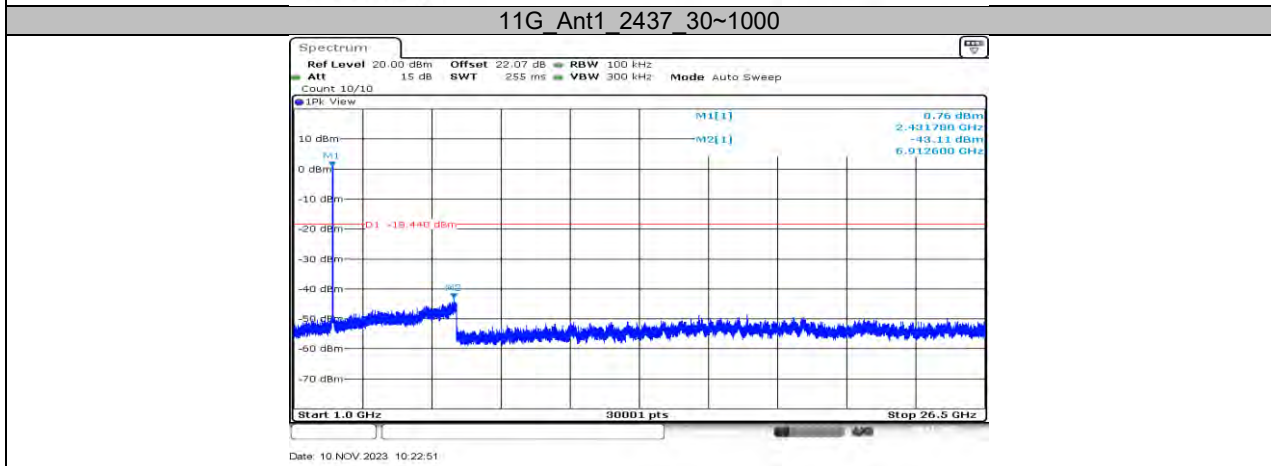
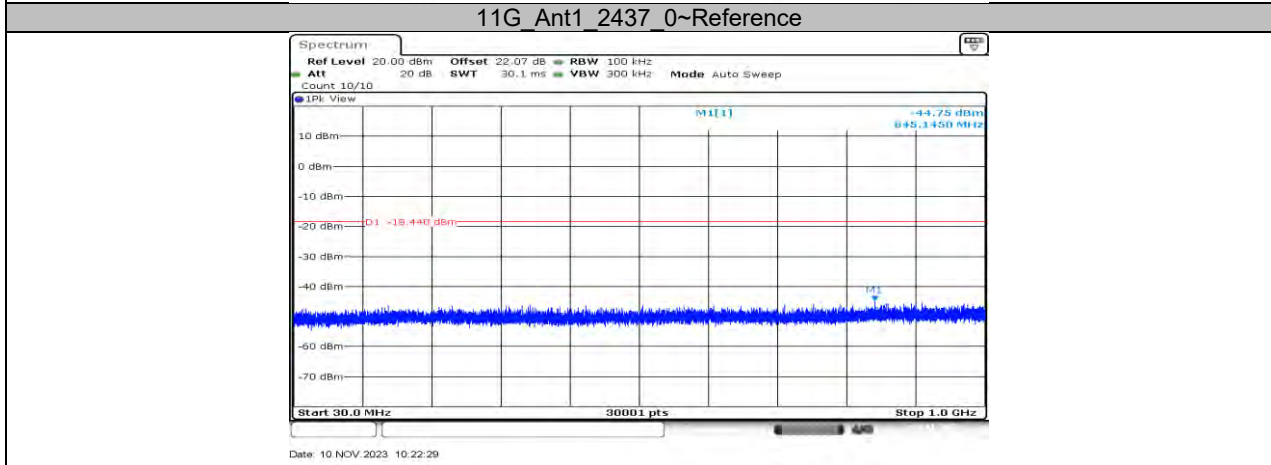
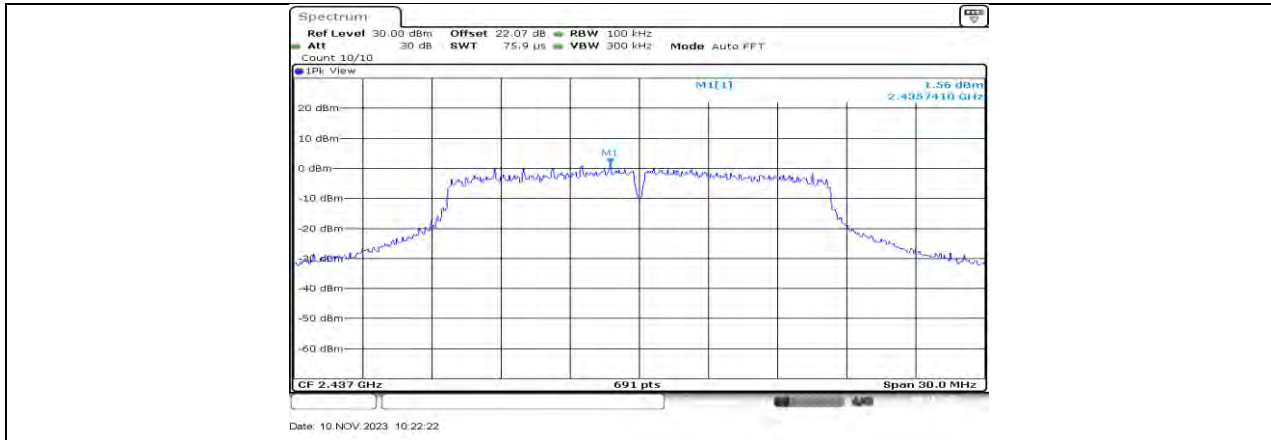
11B_Ant1_2462_0~Reference

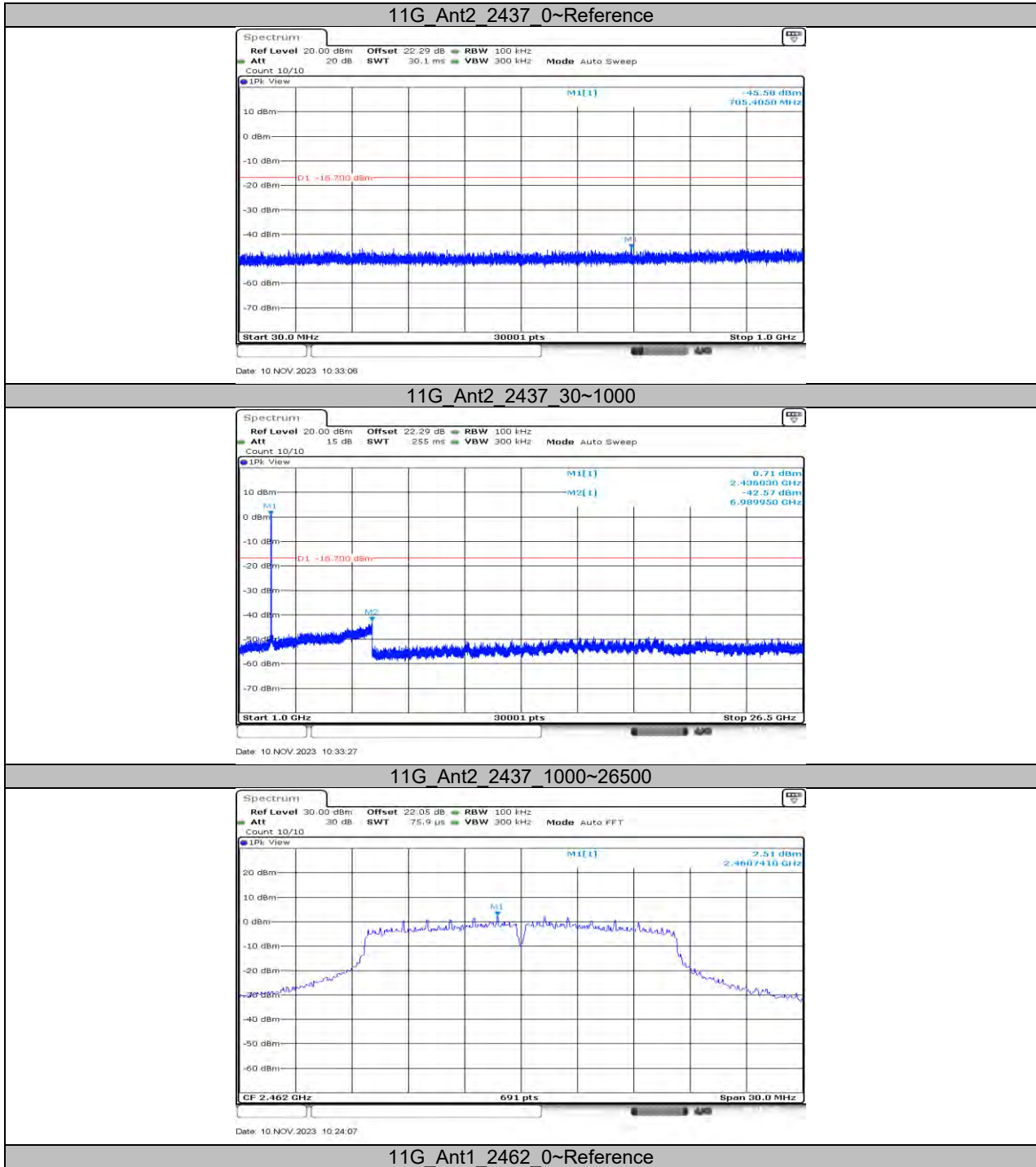


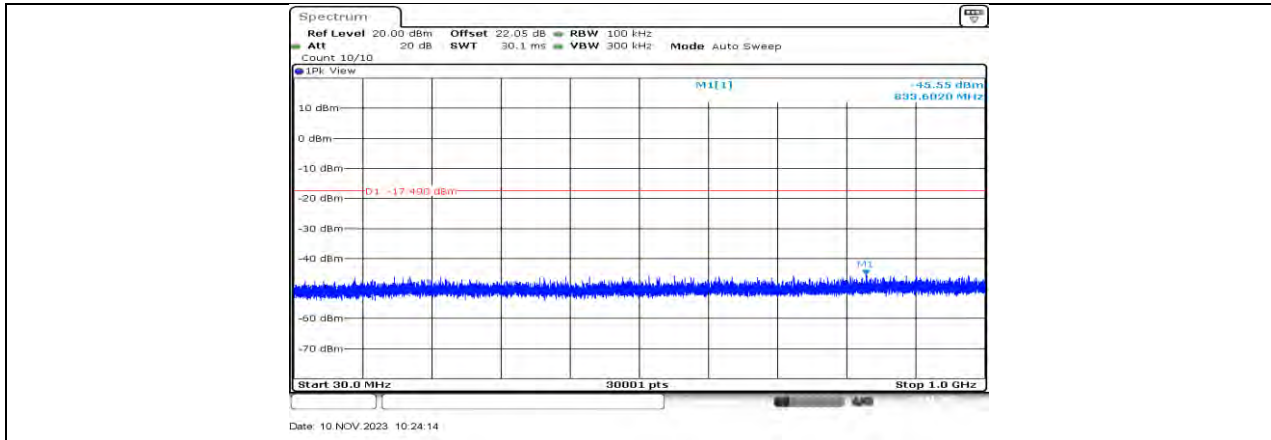




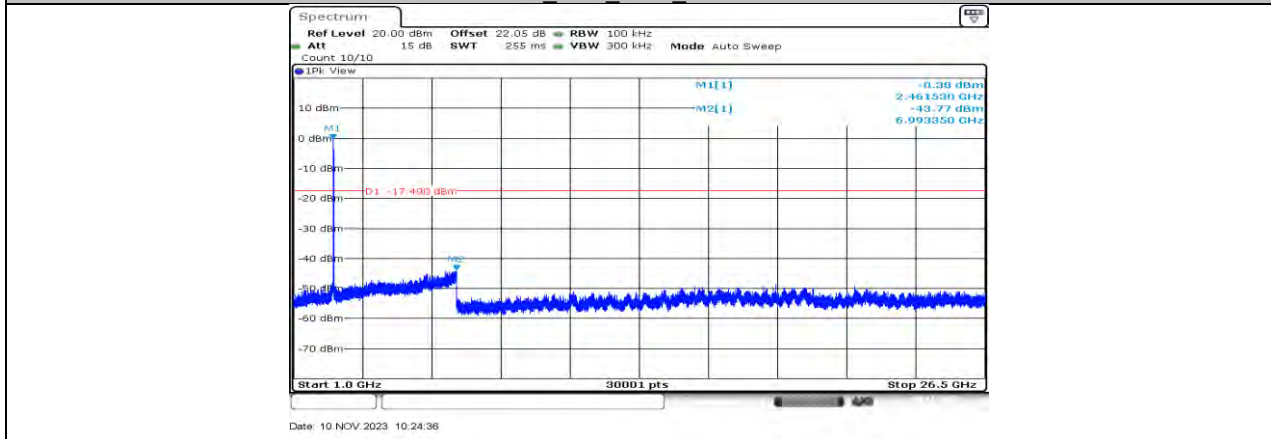




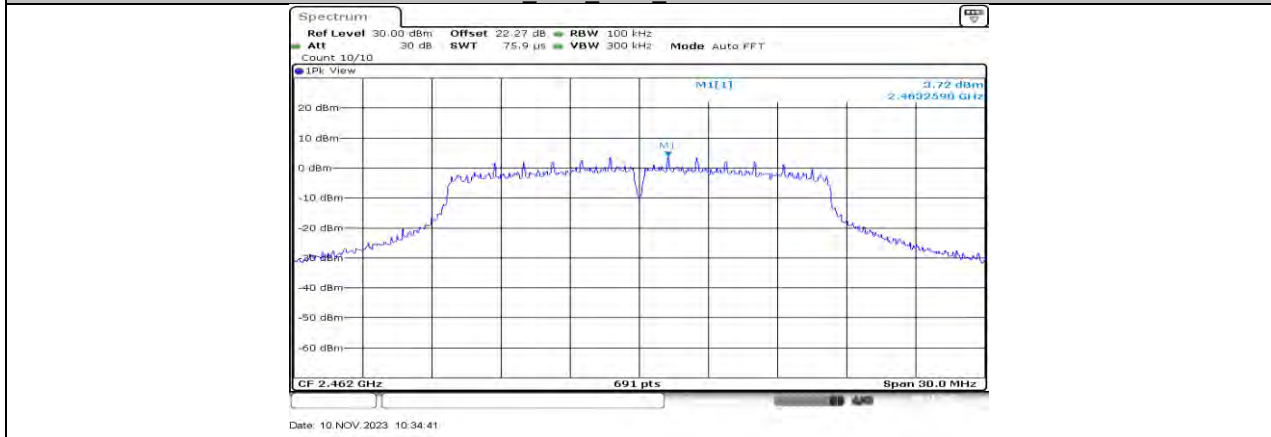




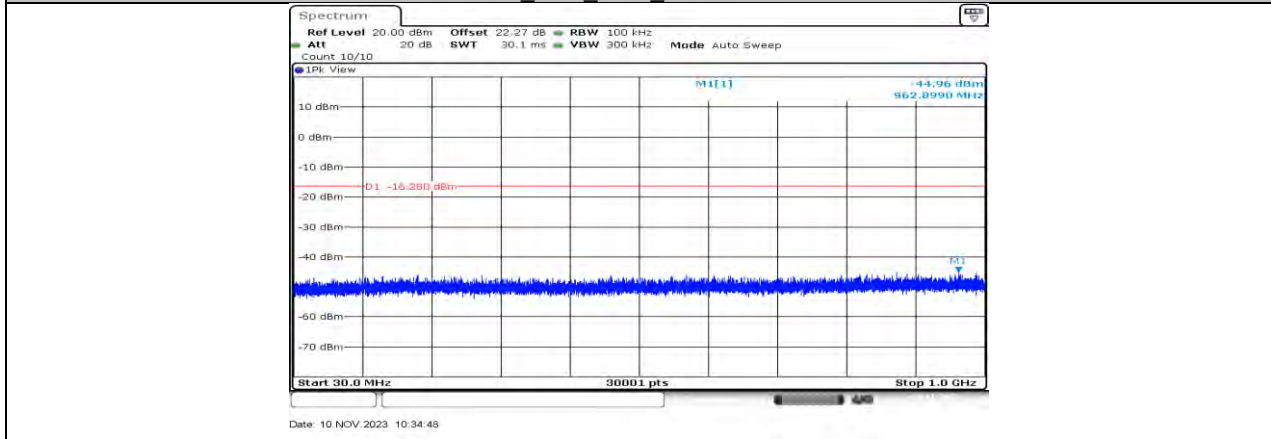
11G Ant1_2462_30~1000

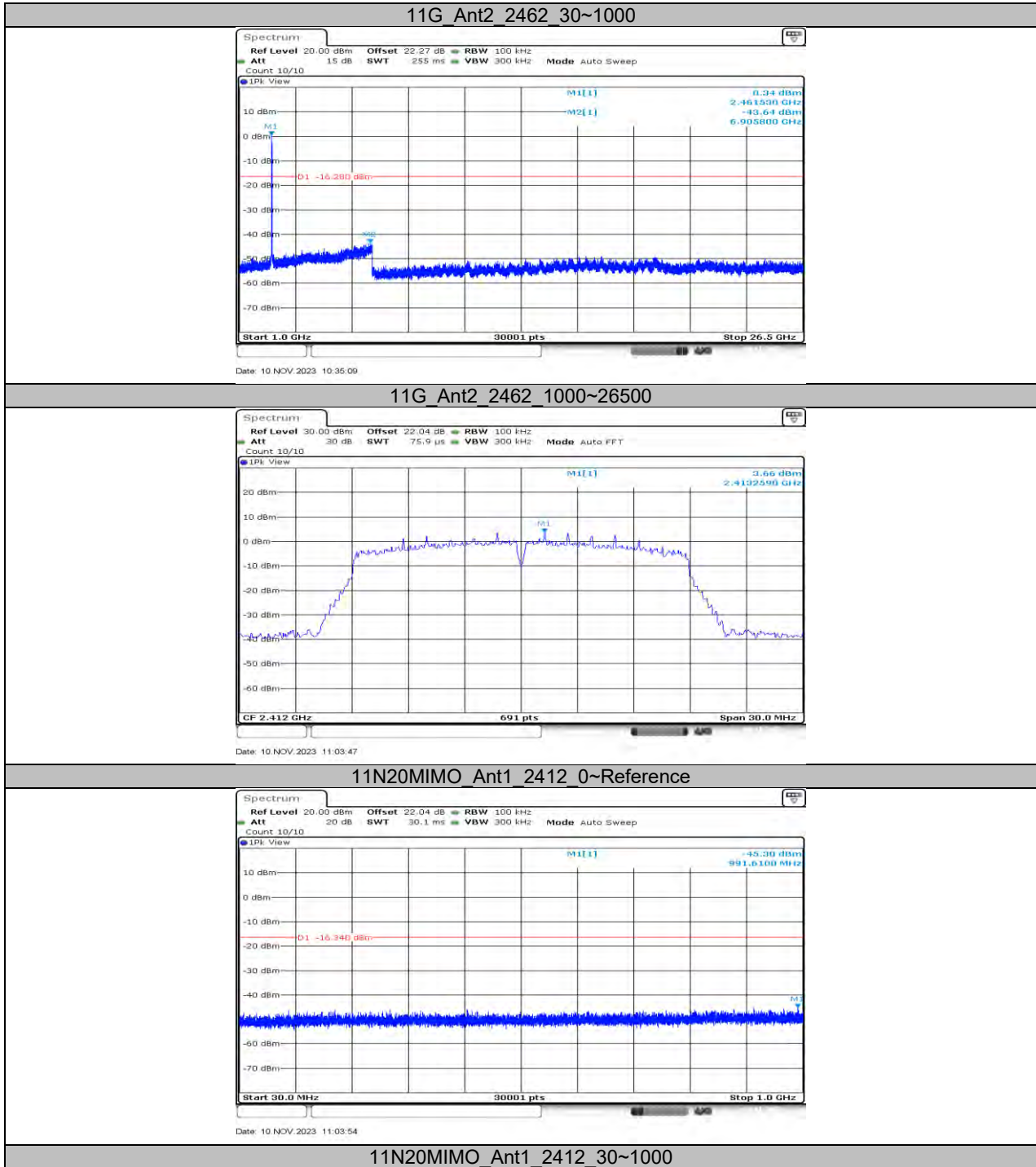


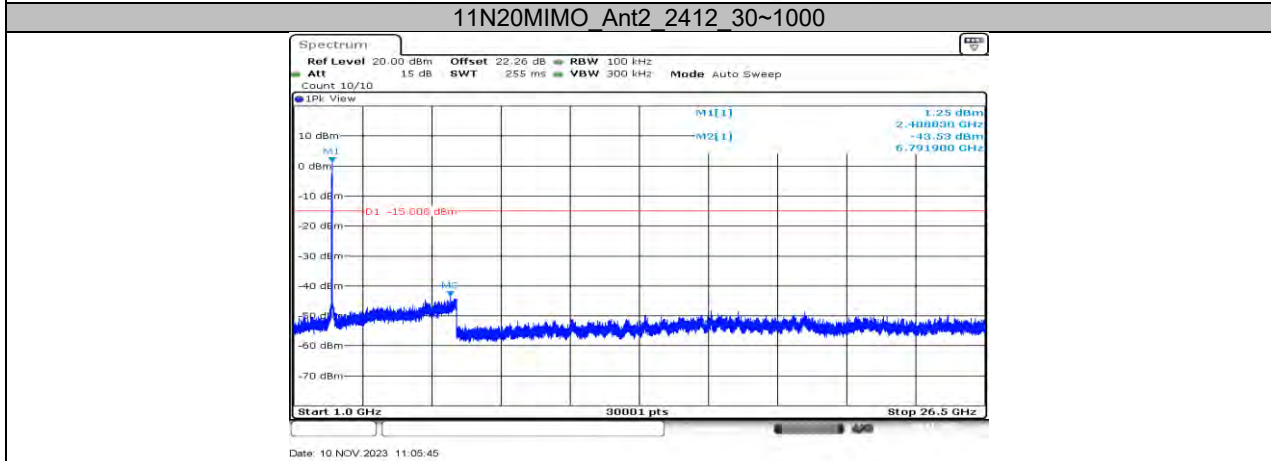
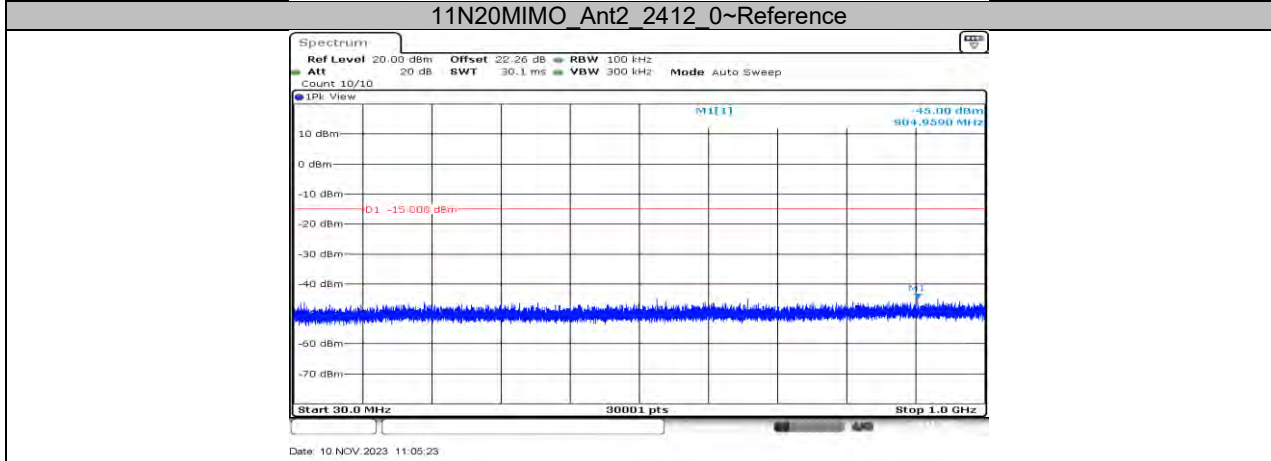
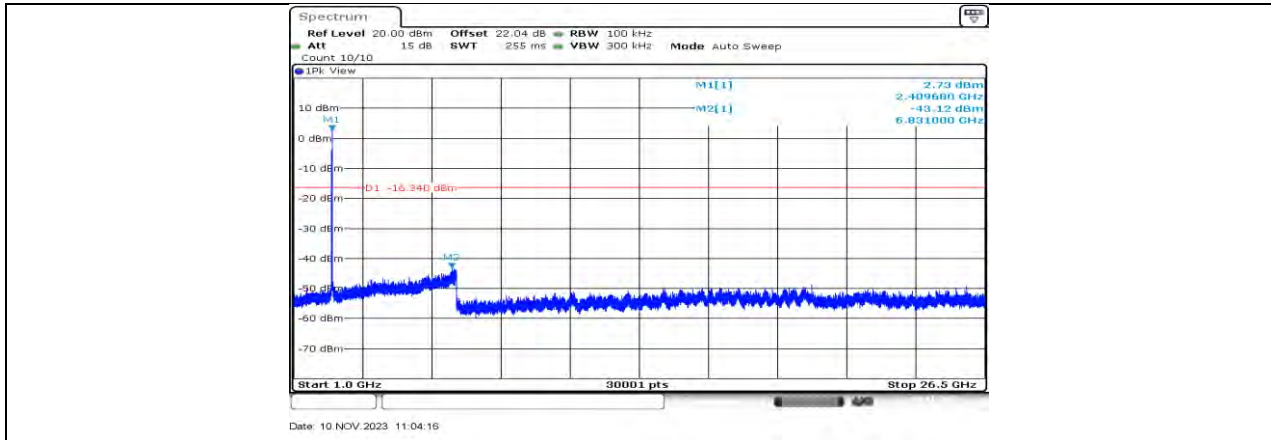
11G Ant1_2462_1000~26500

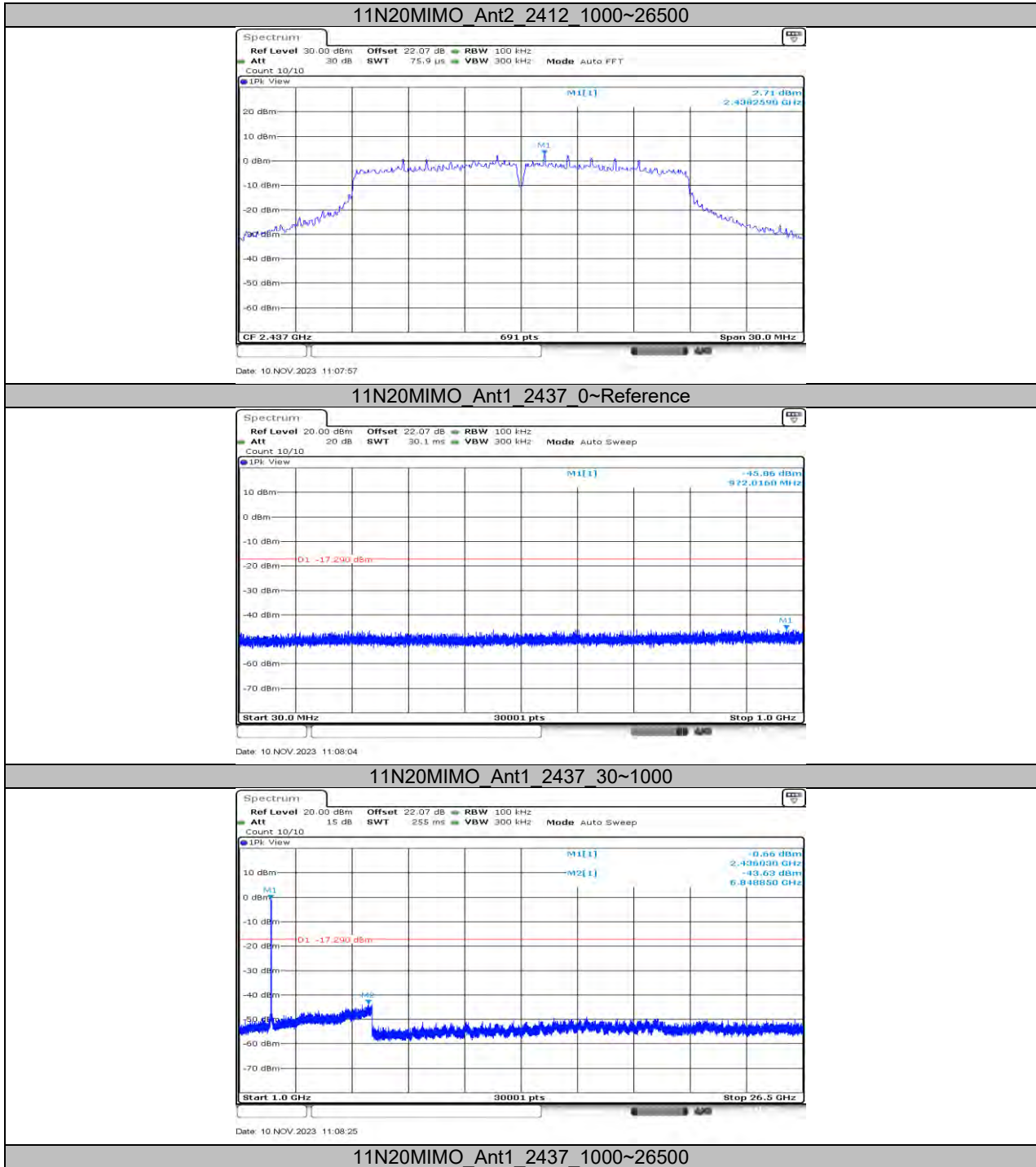


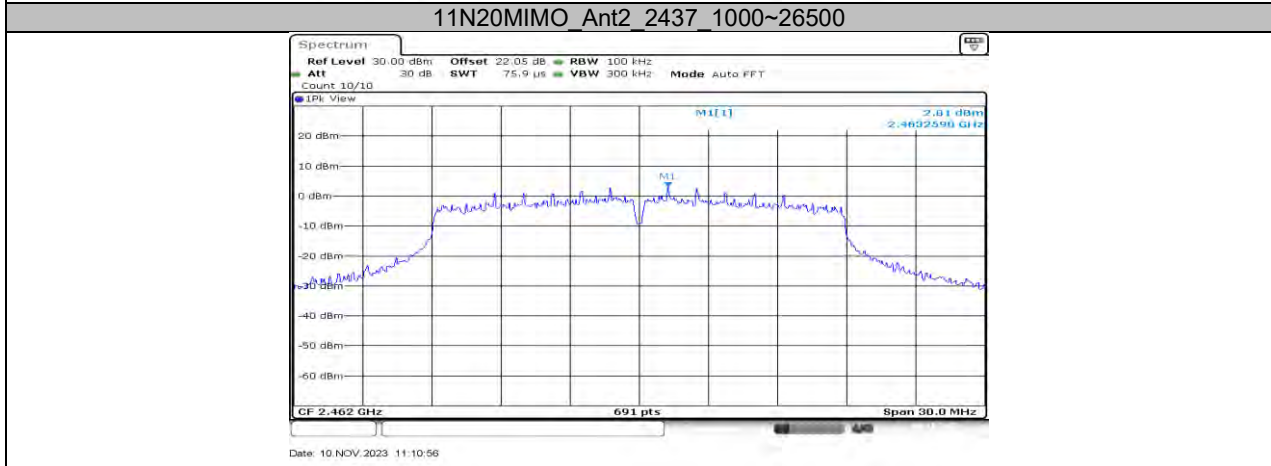
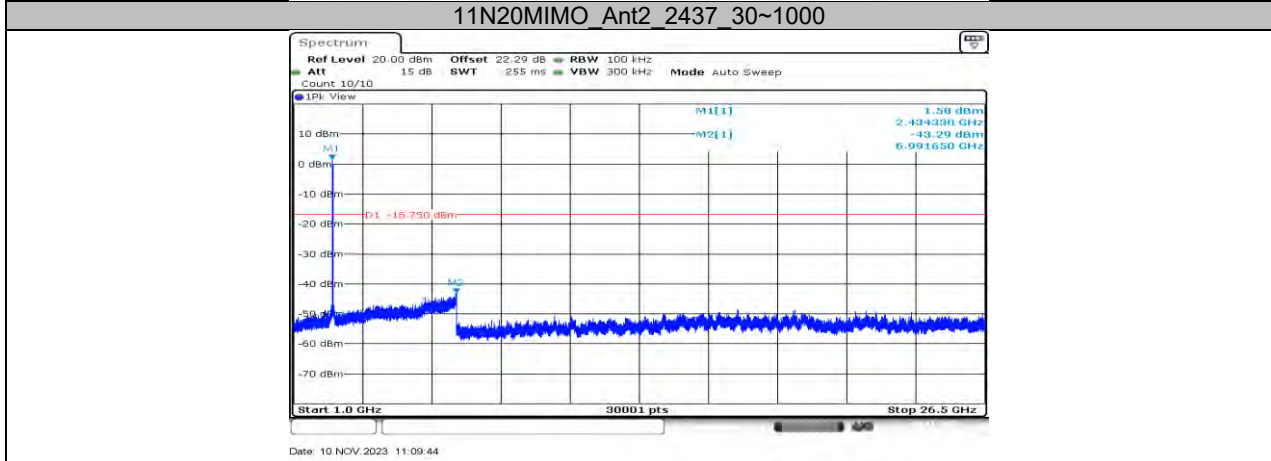
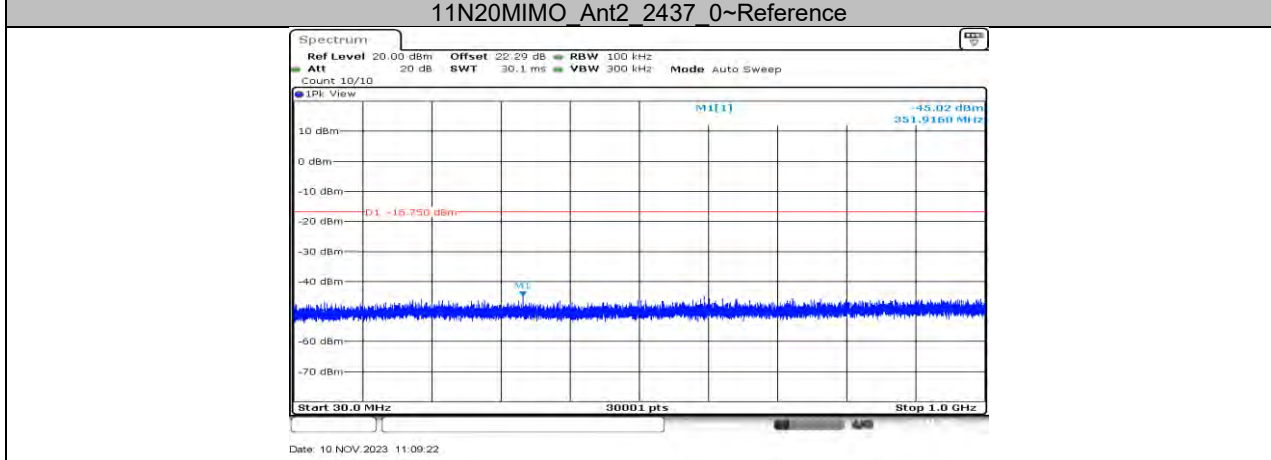
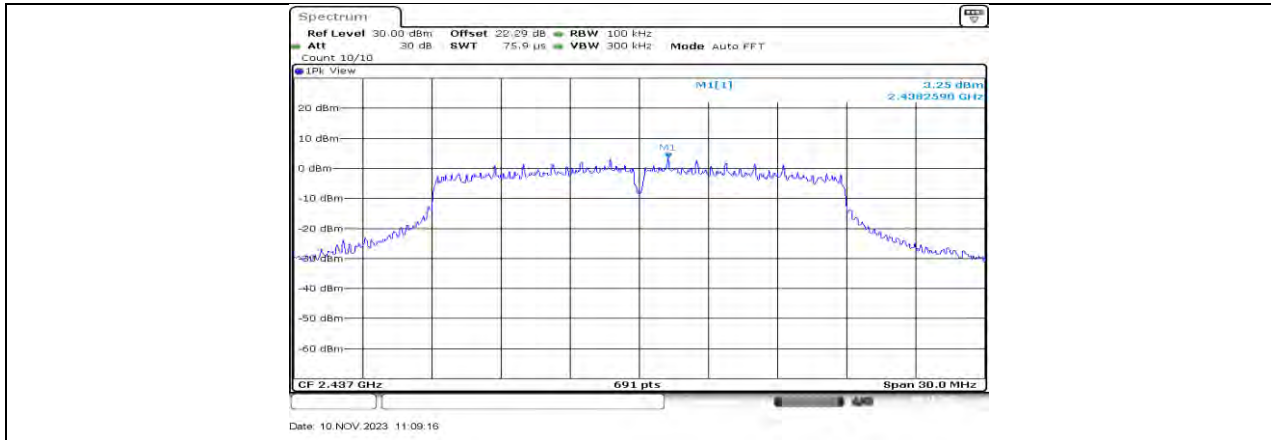
11G Ant2_2462_0~Reference

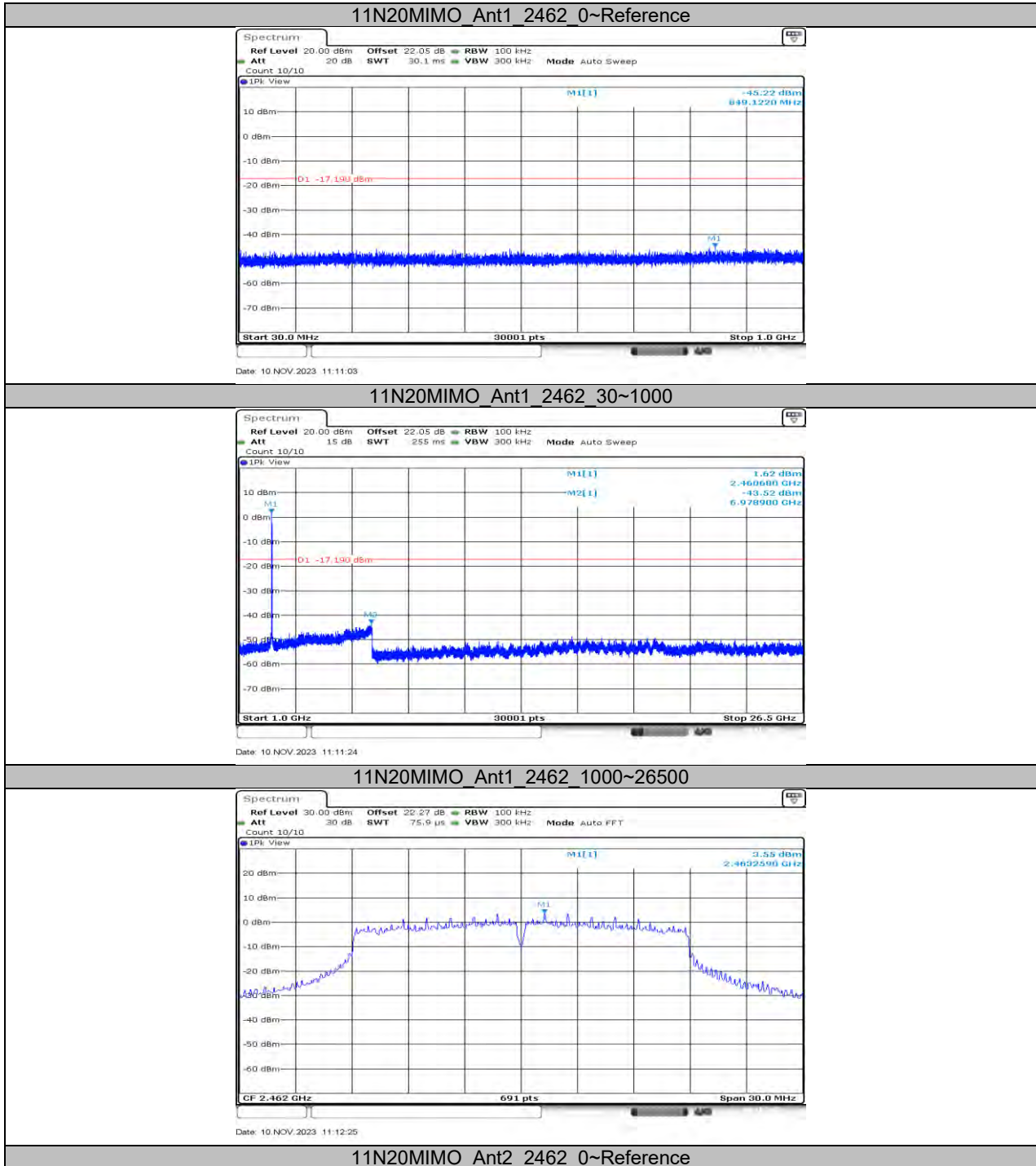


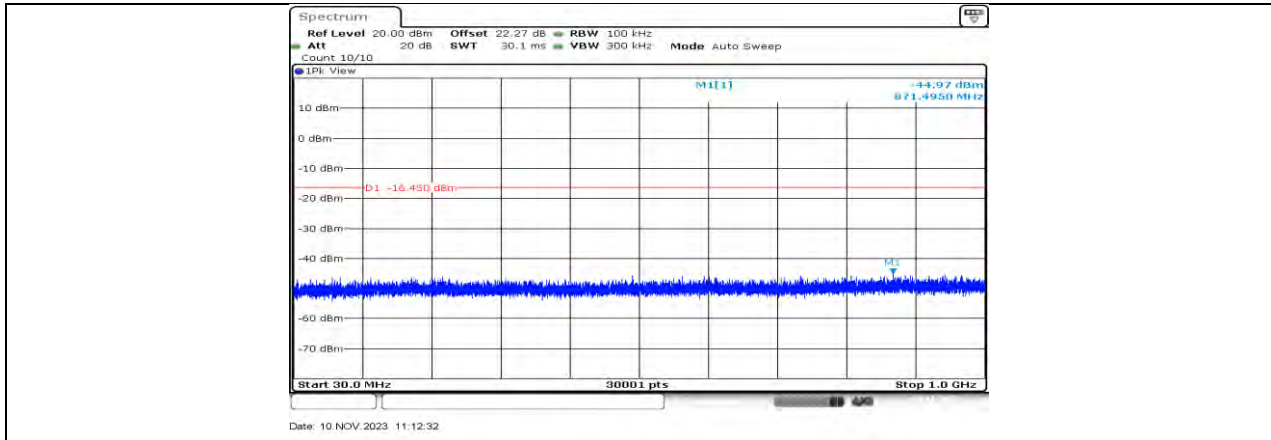




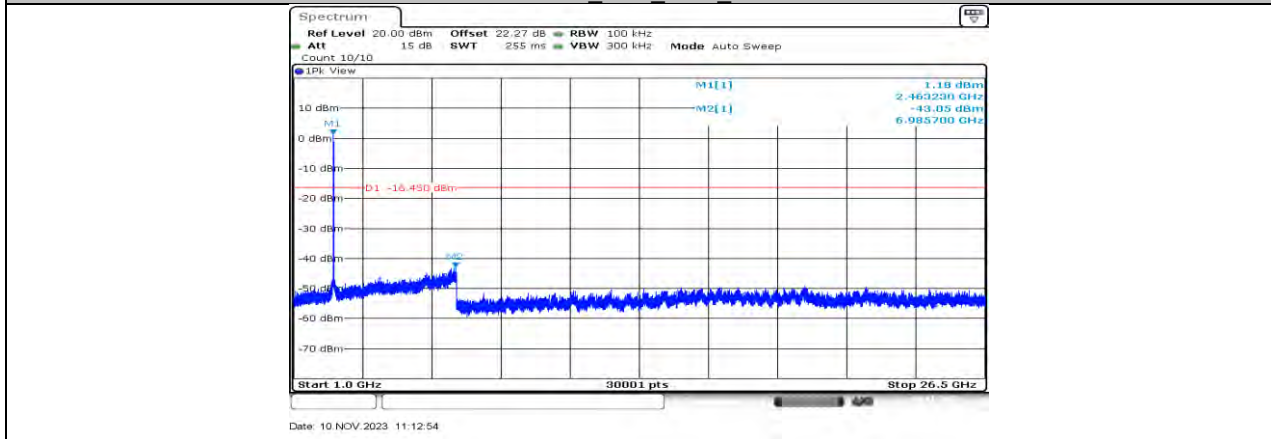




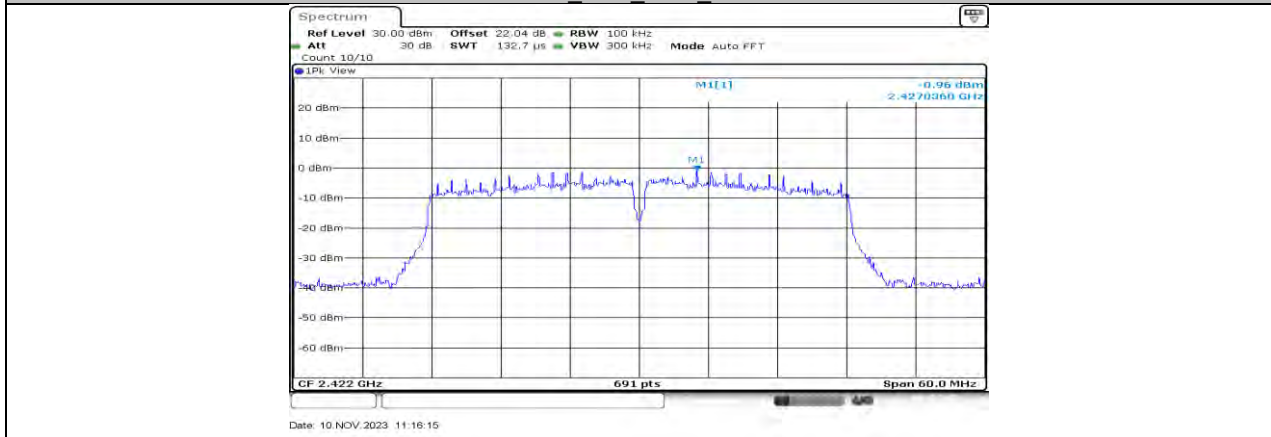




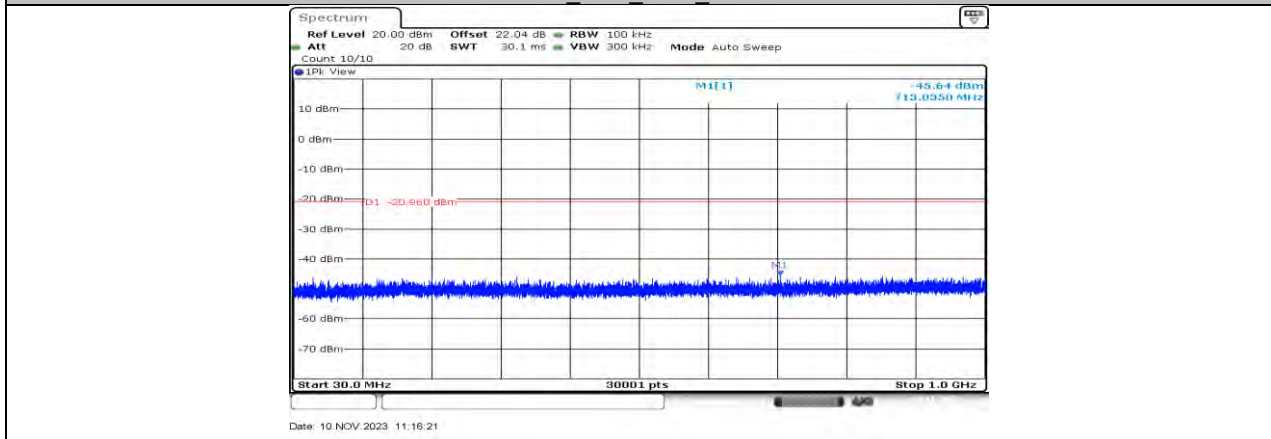
11N20MIMO Ant2 2462 30~1000

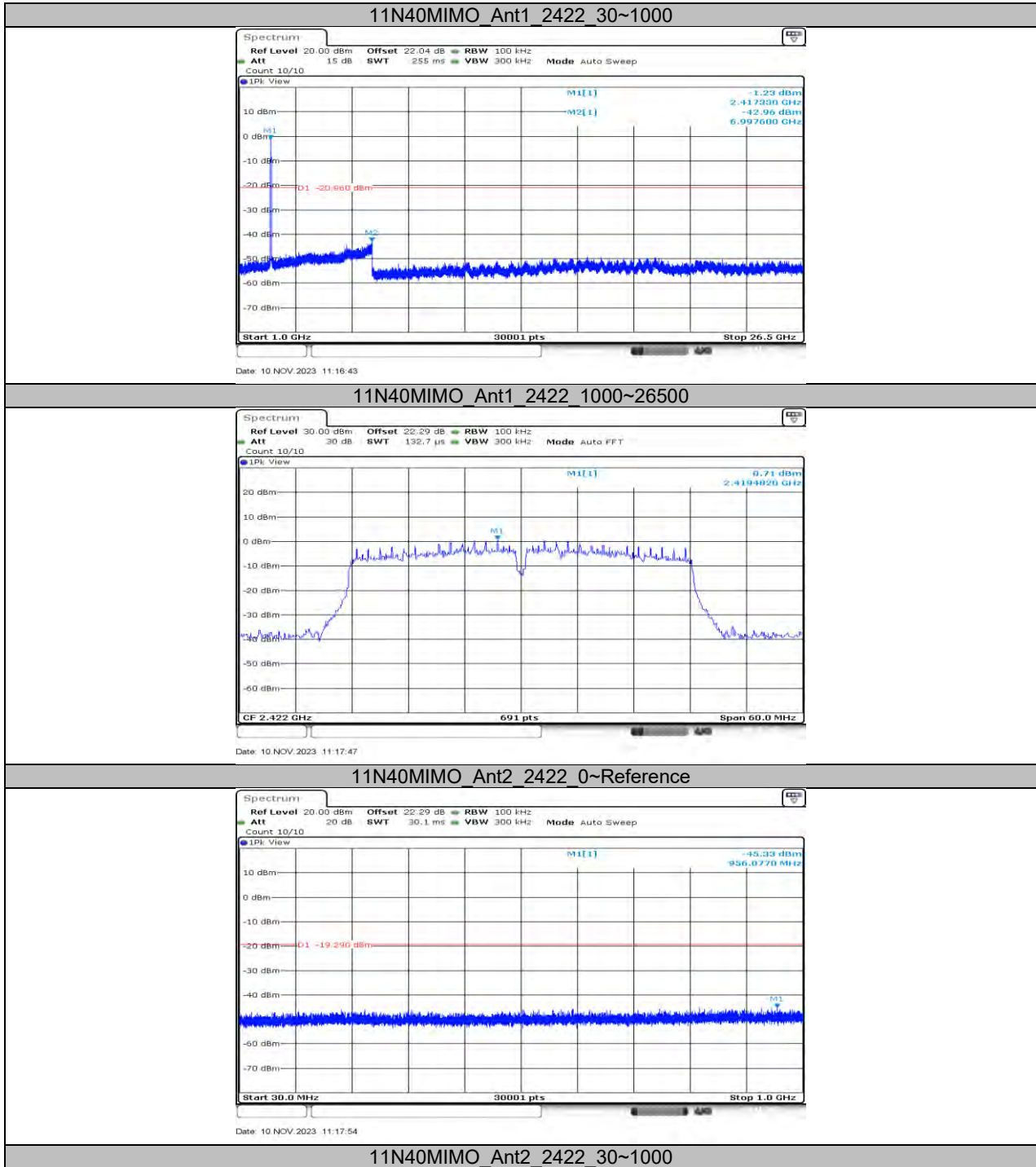


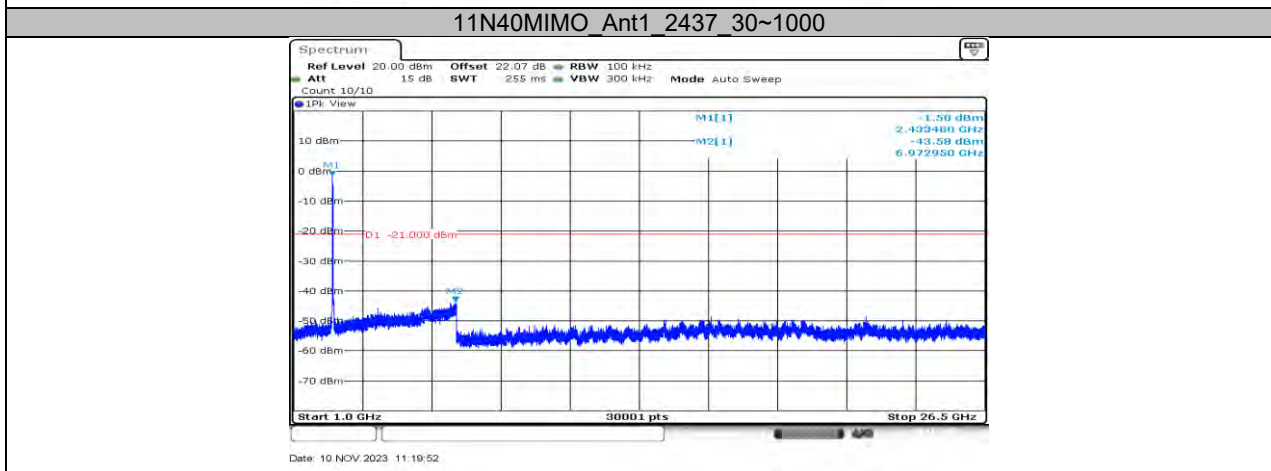
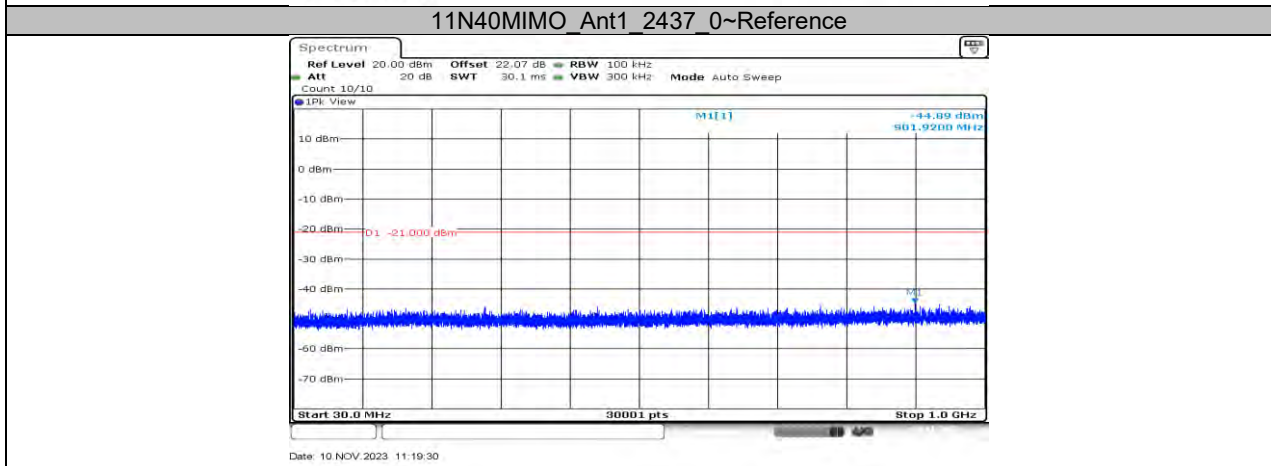
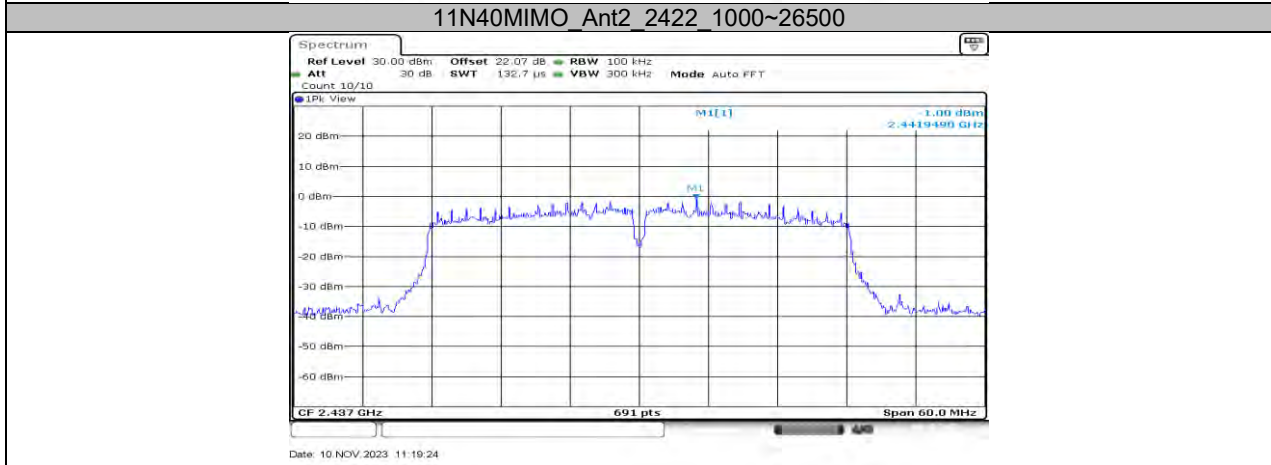
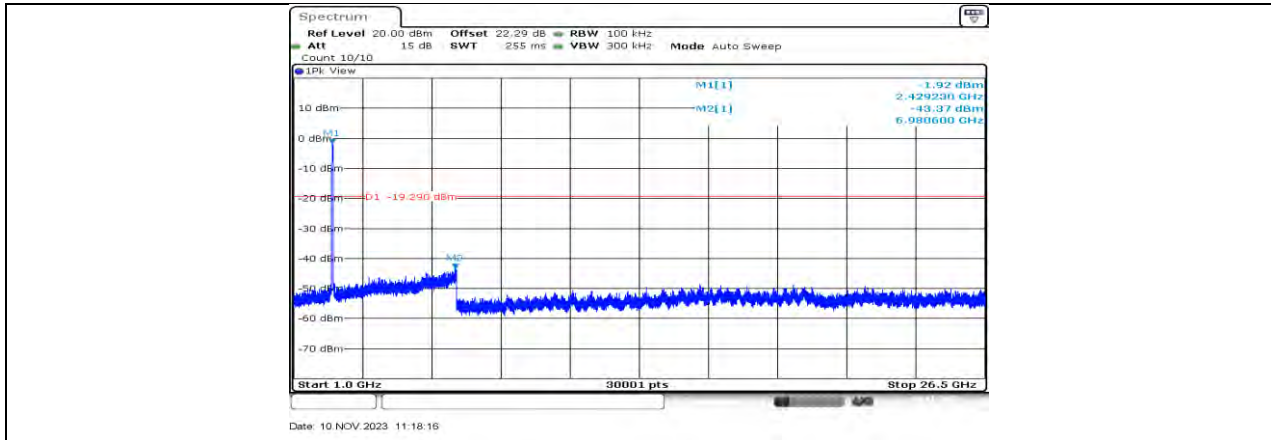
11N20MIMO Ant2 2462 1000~26500

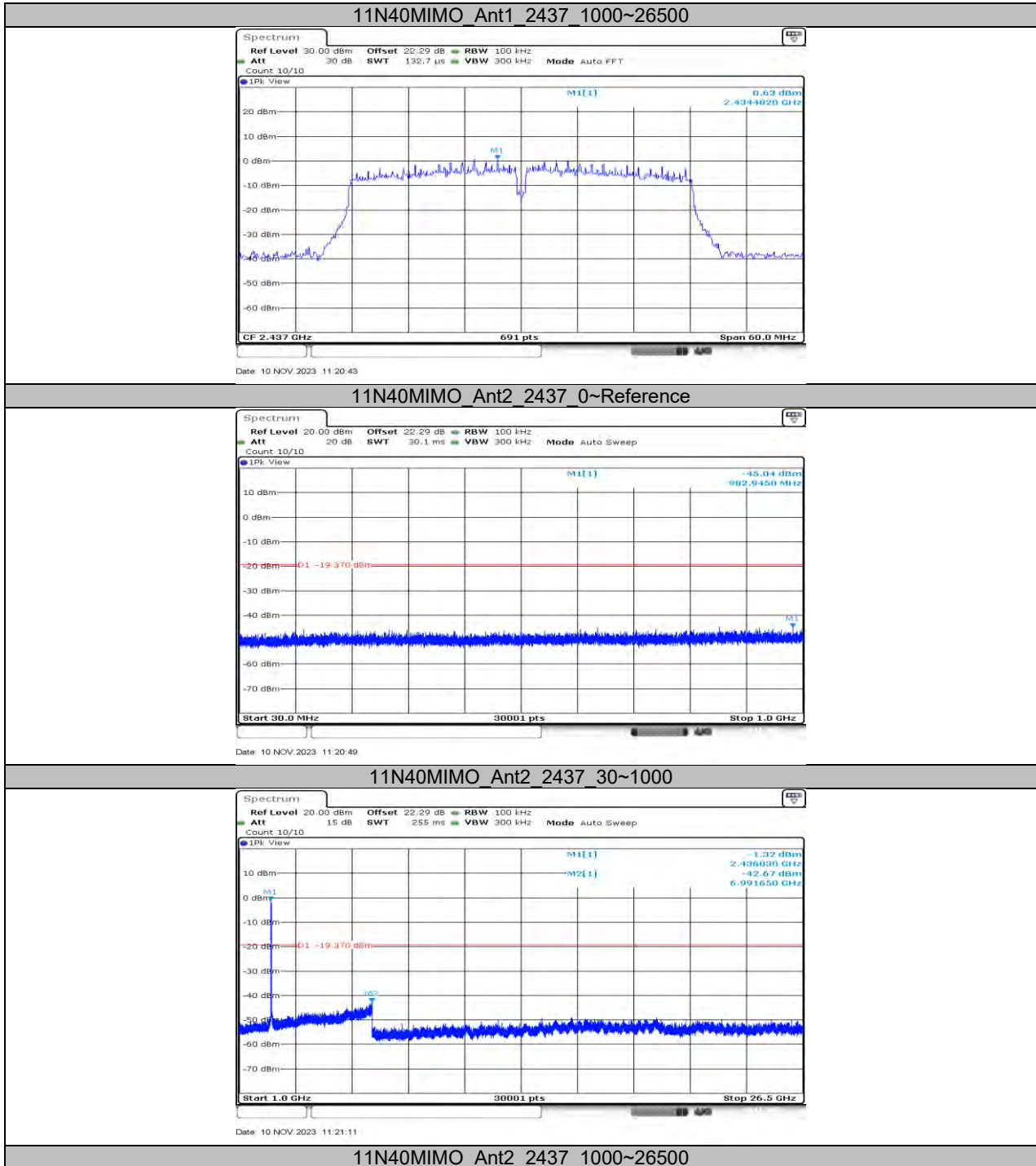


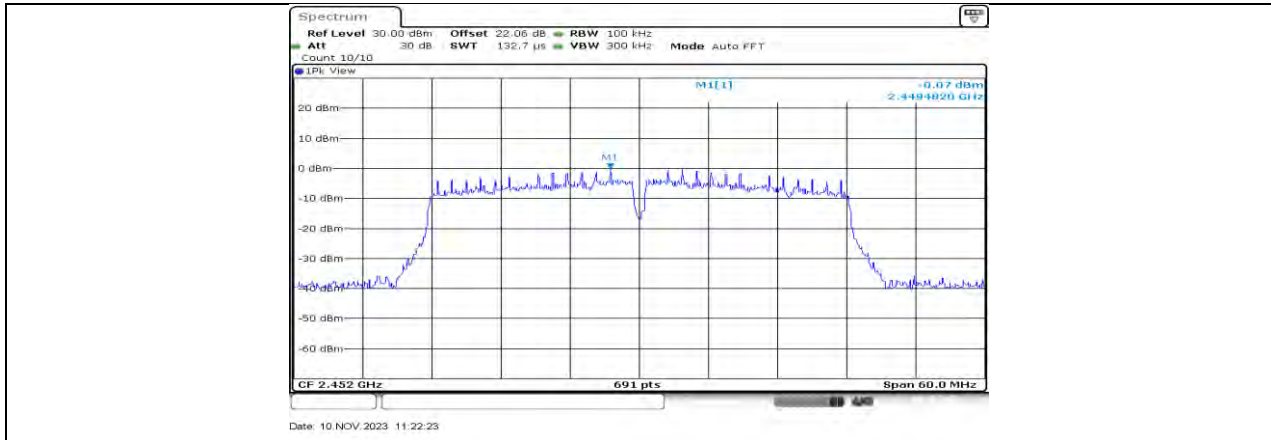
11N40MIMO Ant1 2422 0~Reference



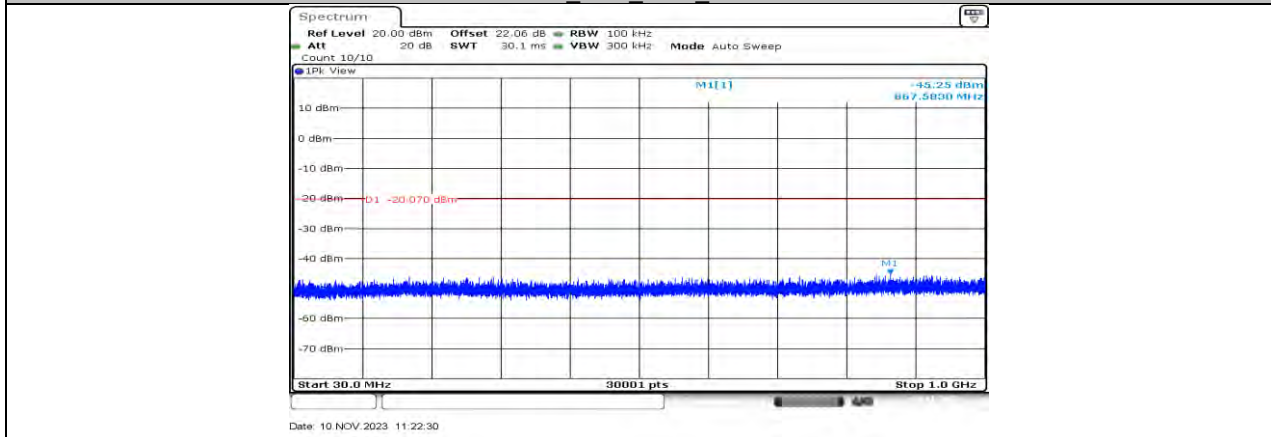




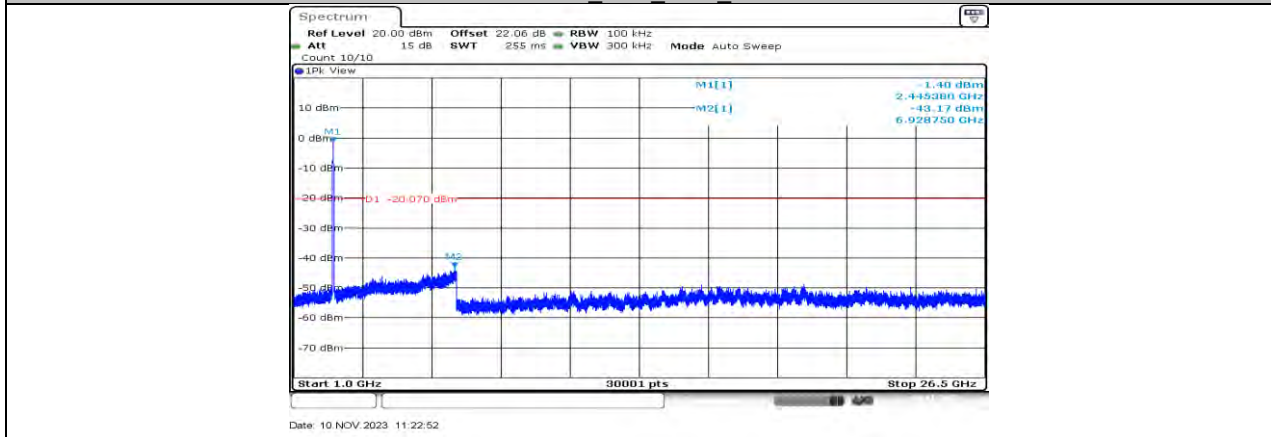




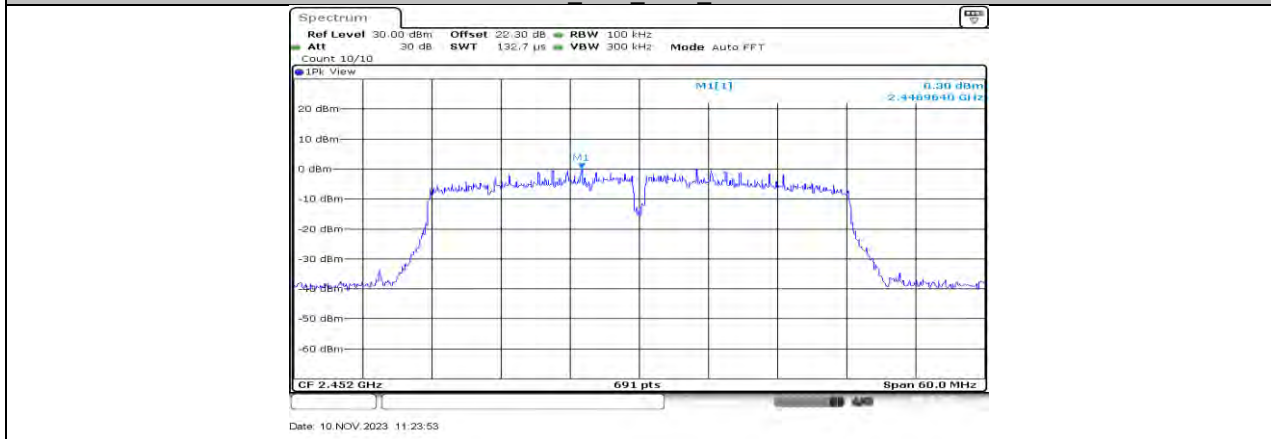
11N40MIMO Ant1 2452 0~Reference

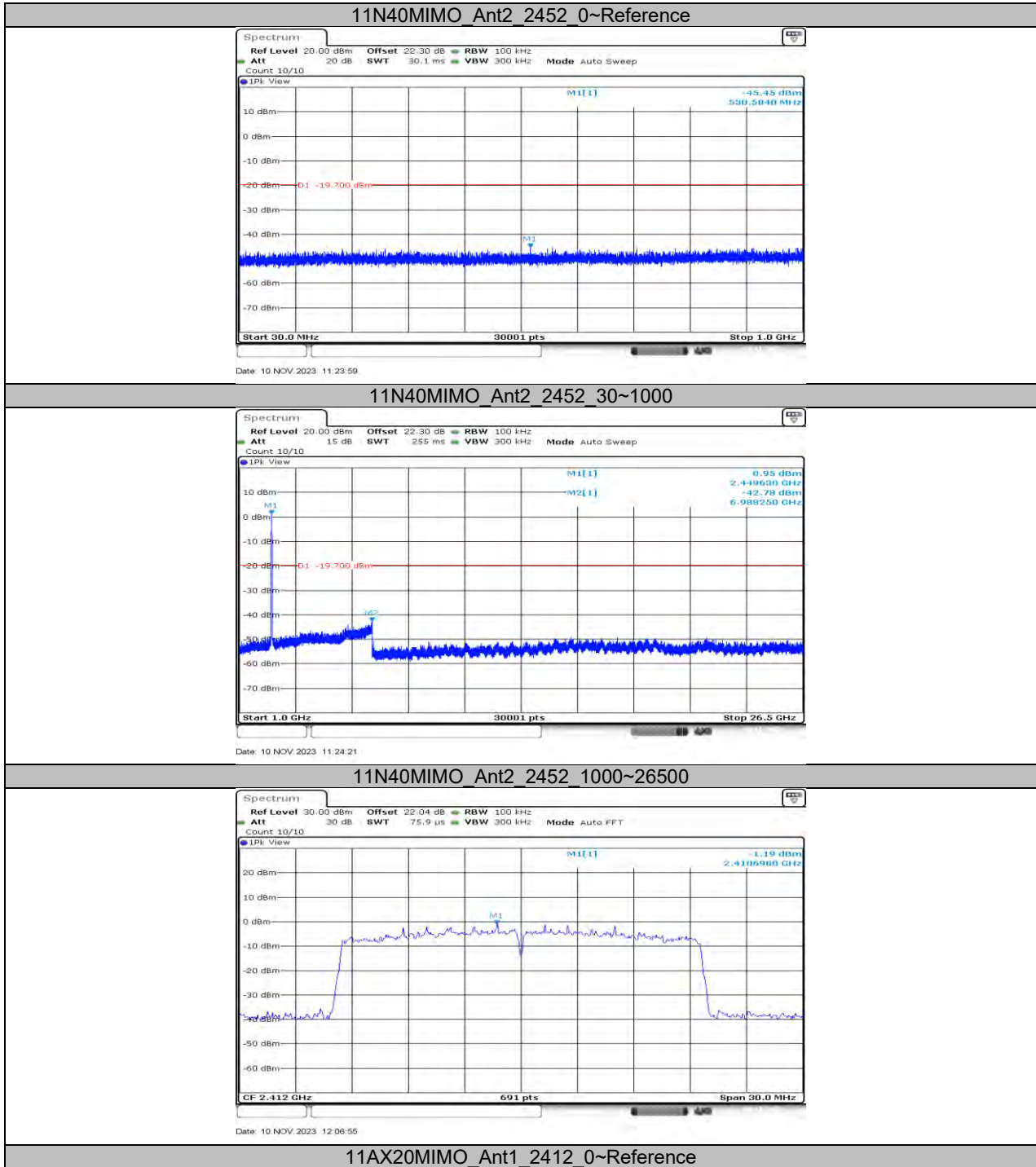


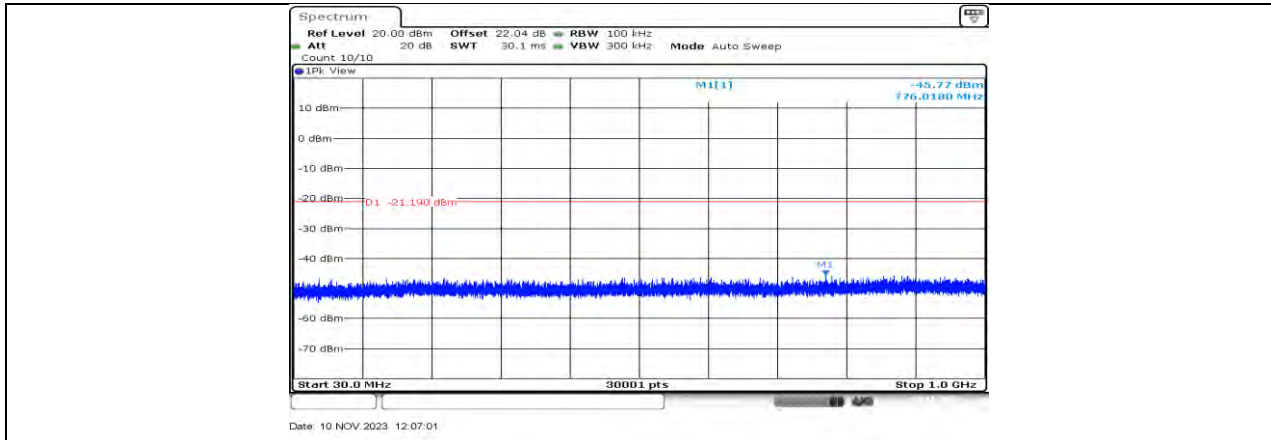
11N40MIMO Ant1 2452 30~1000



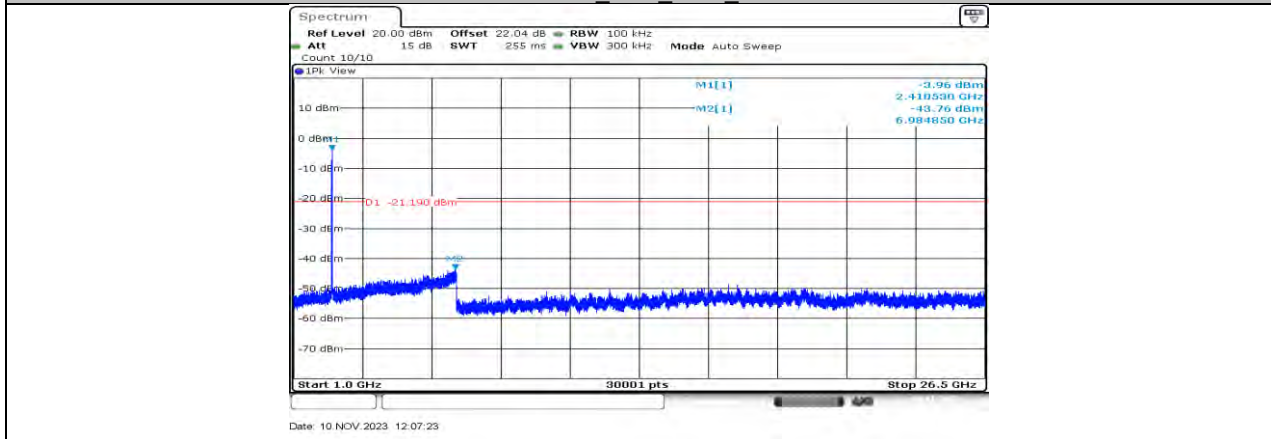
11N40MIMO Ant1 2452 1000~26500



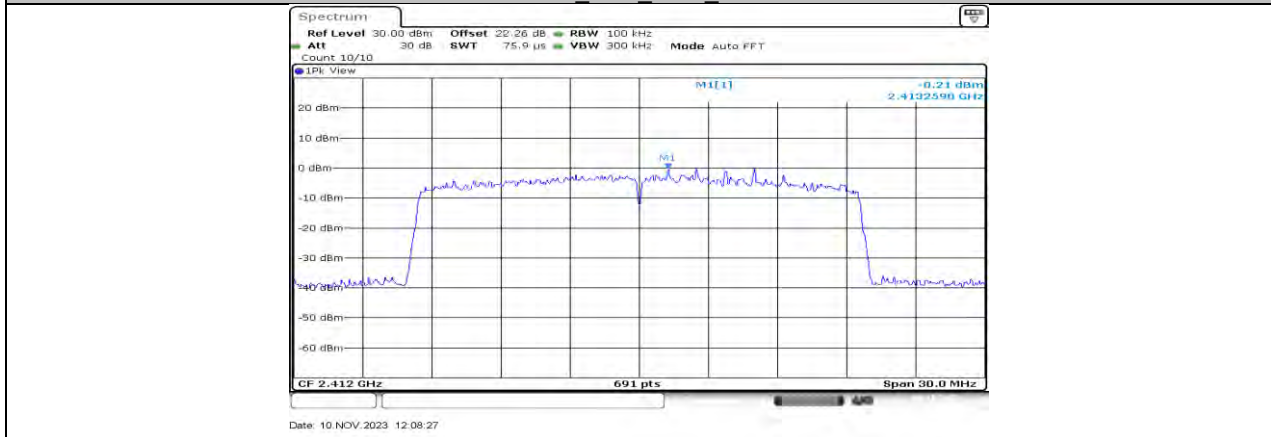




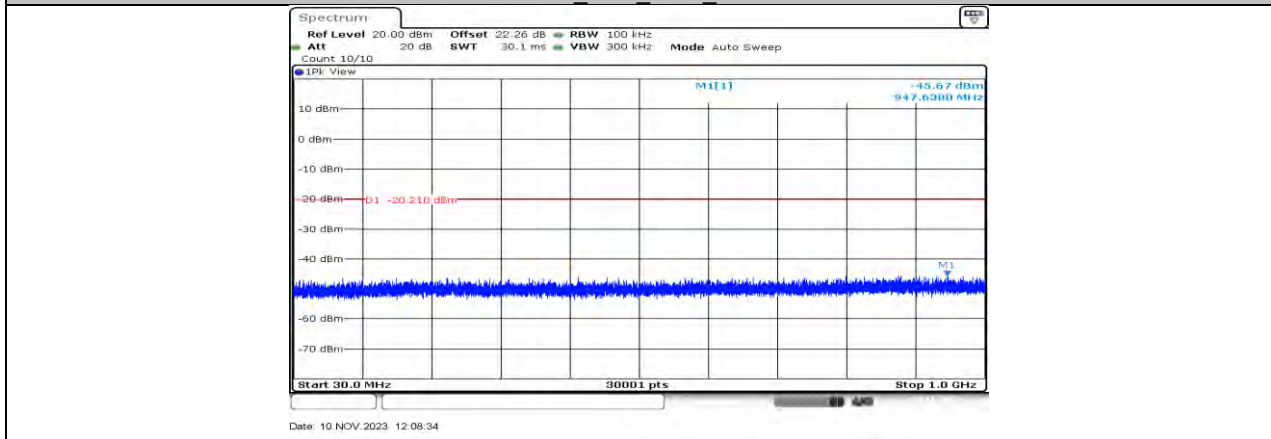
11AX20MIMO Ant1 2412 30~1000

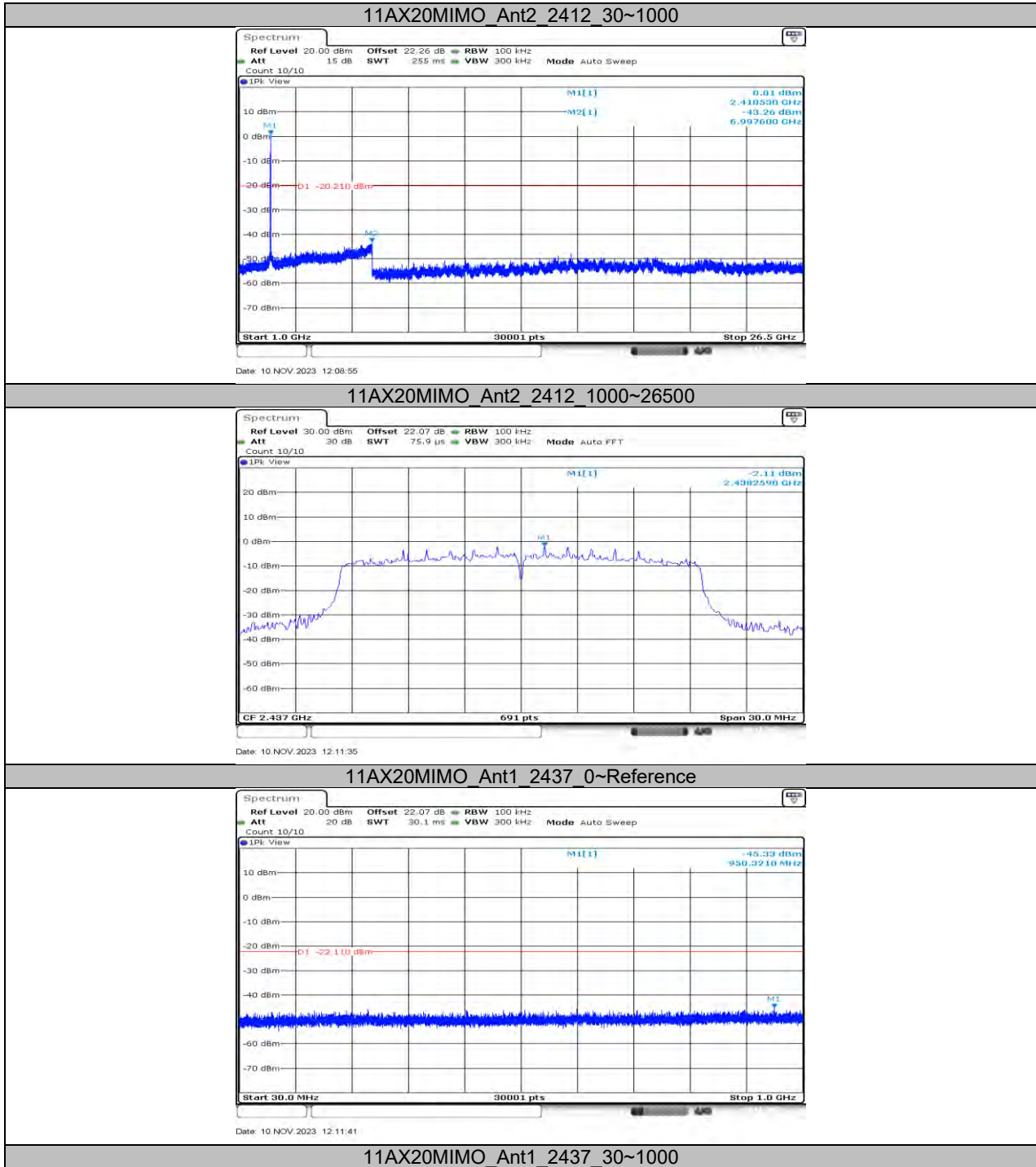


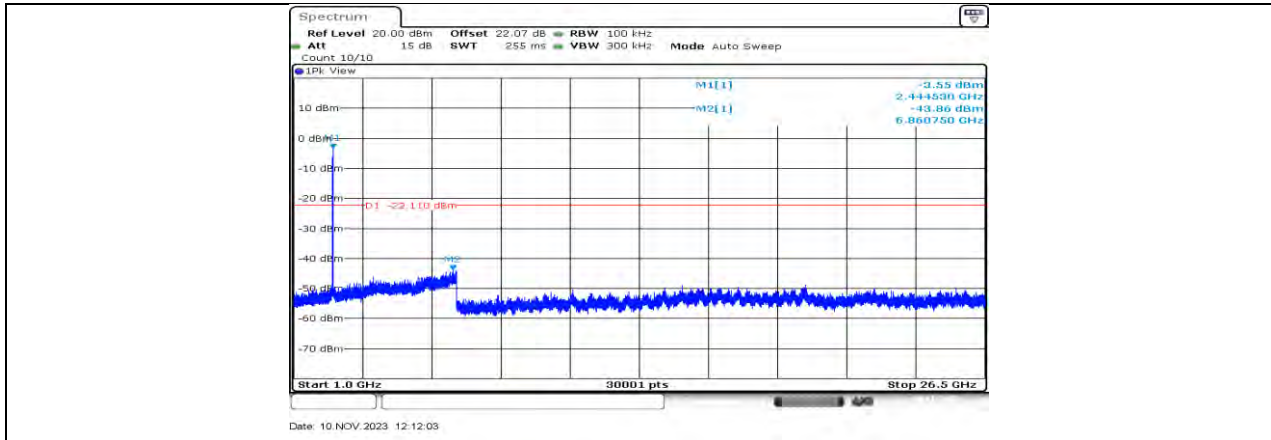
11AX20MIMO Ant1 2412 1000~26500



11AX20MIMO Ant2 2412 0~Reference



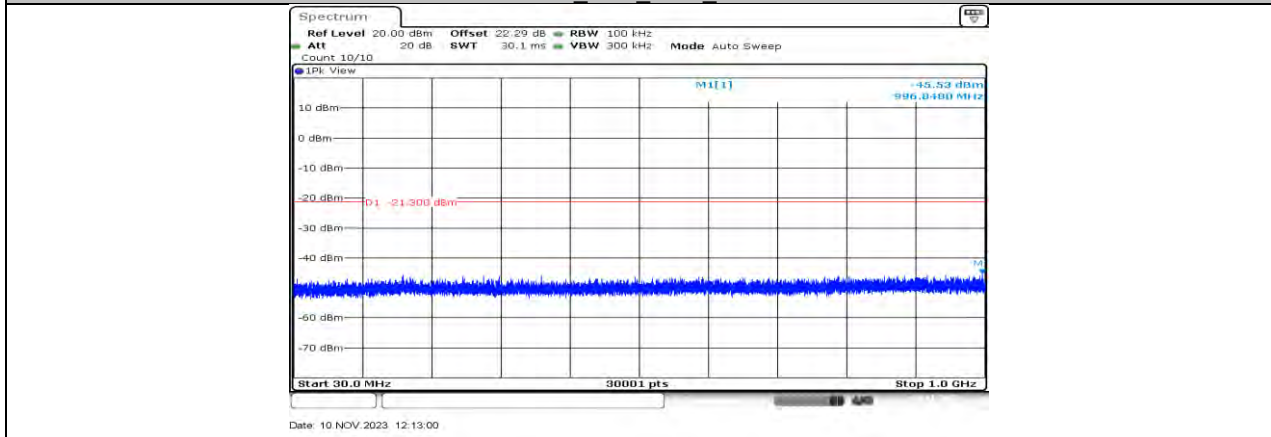




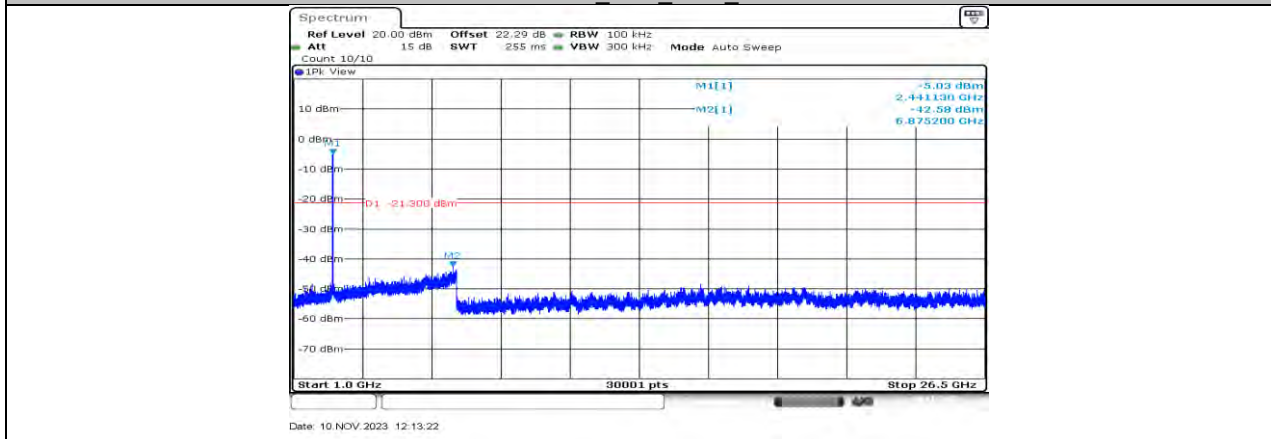
11AX20MIMO Ant1 2437 1000~26500

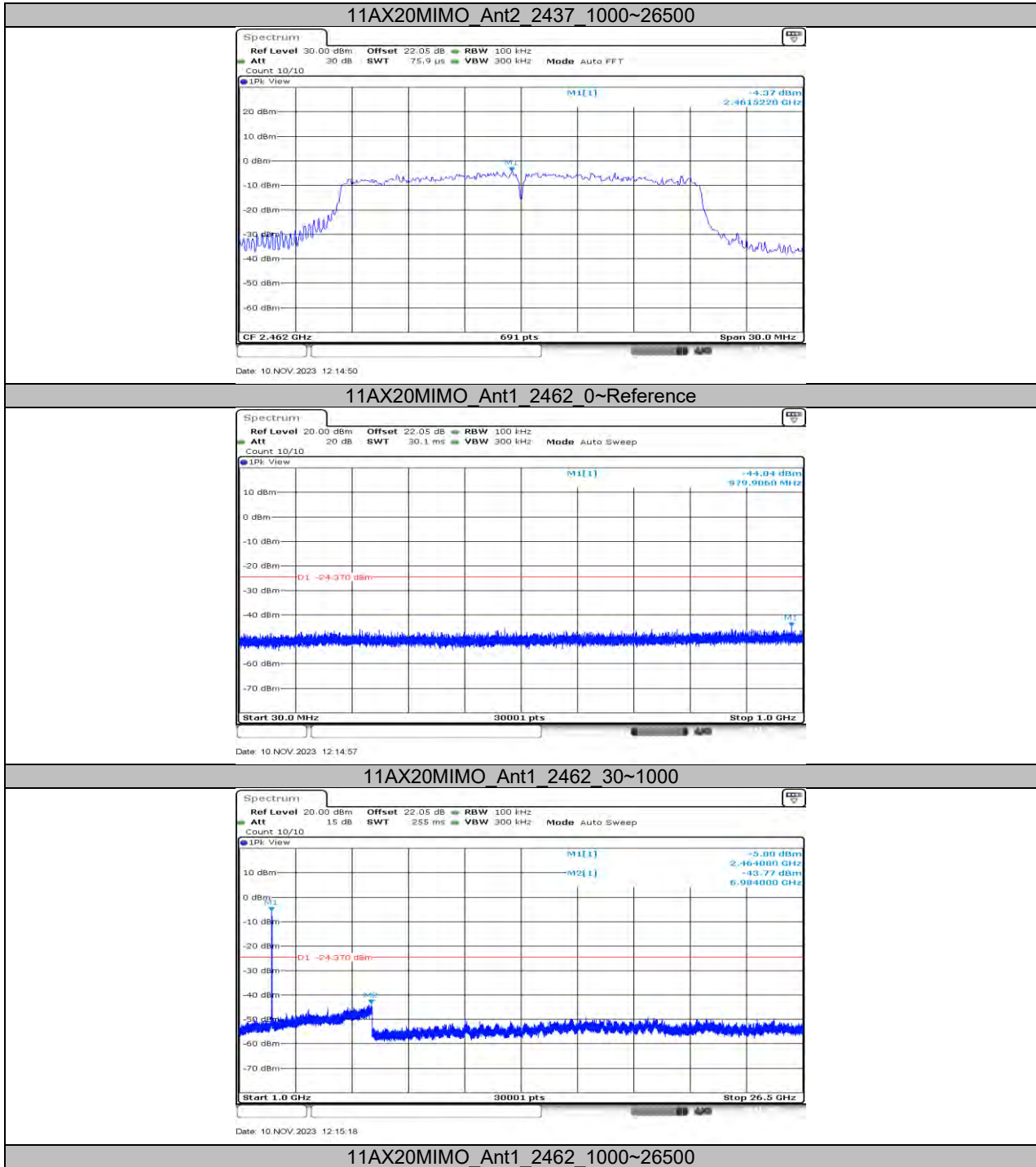


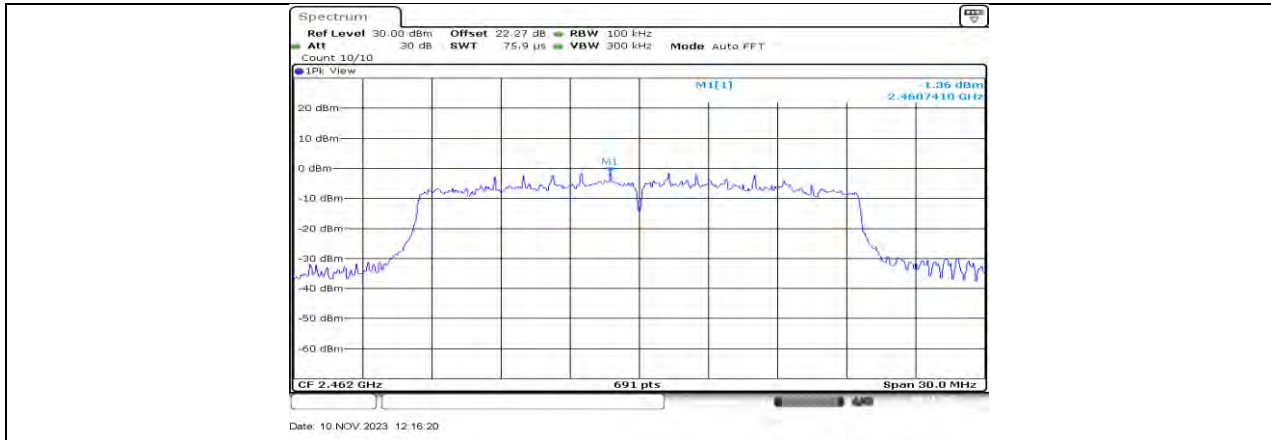
11AX20MIMO Ant2 2437 0~Reference



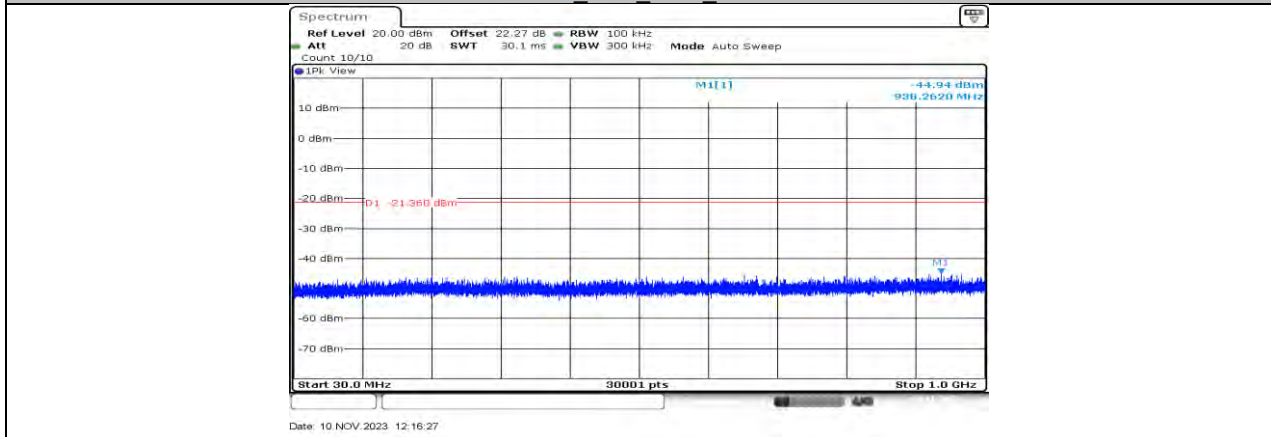
11AX20MIMO Ant2 2437 30~1000



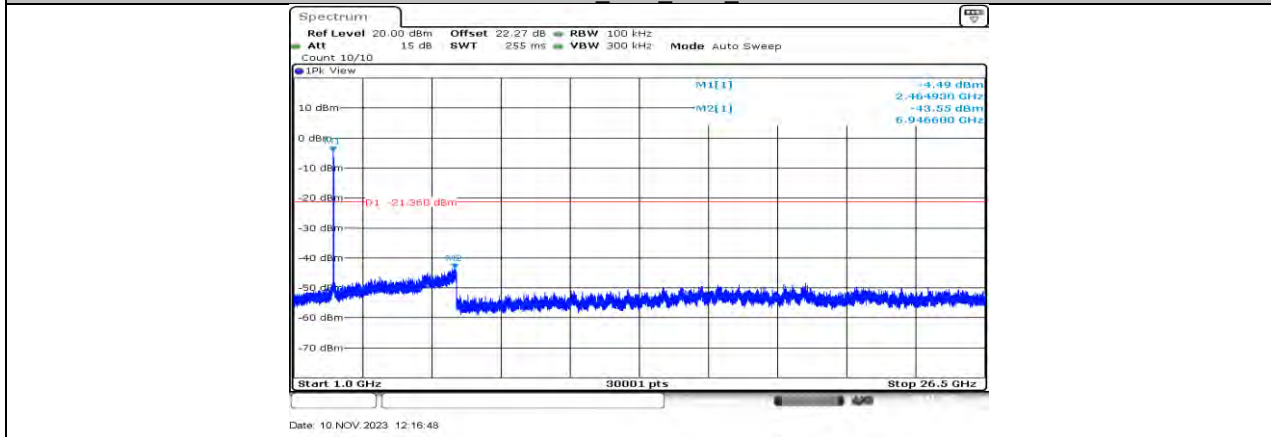




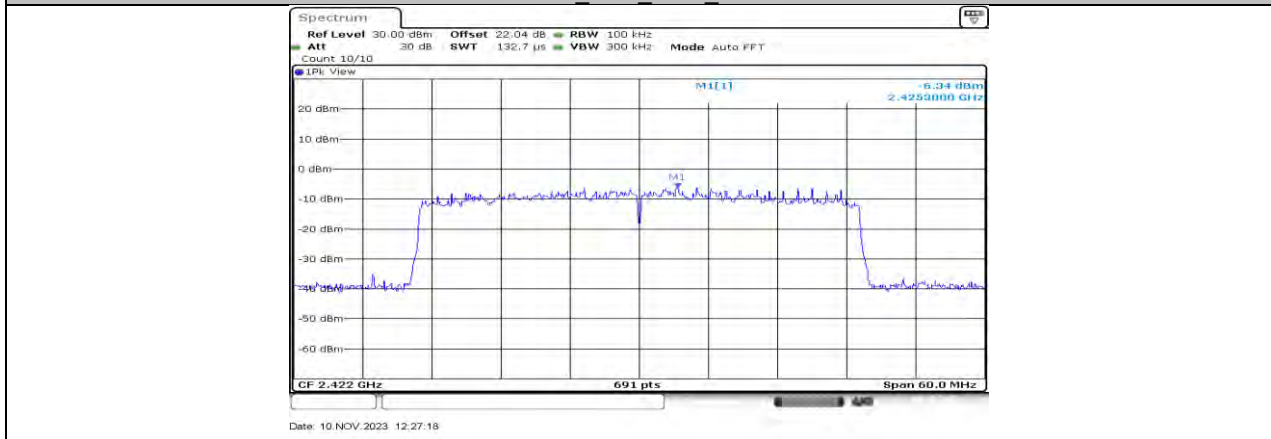
11AX20MIMO Ant2 2462 0~Reference

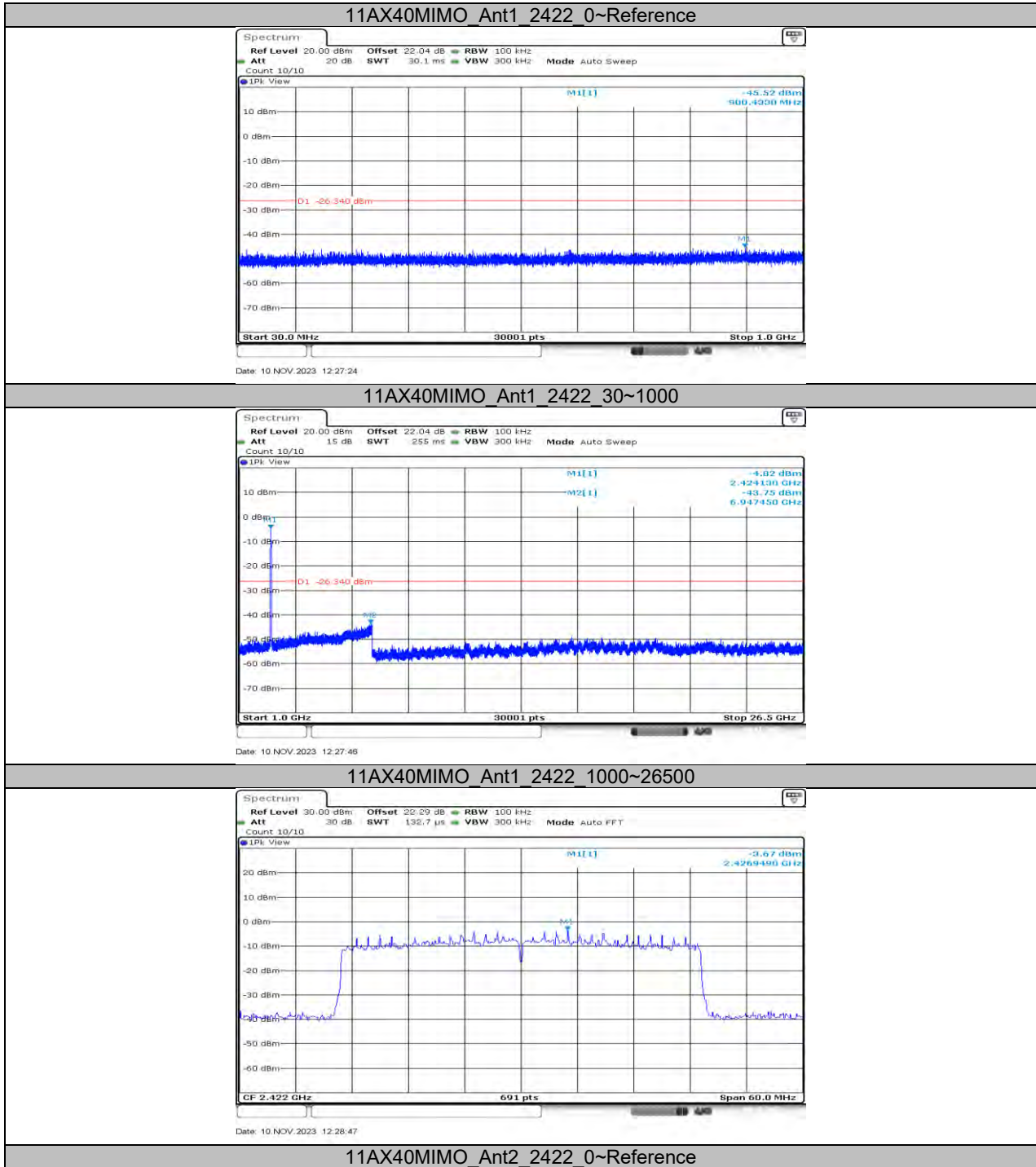


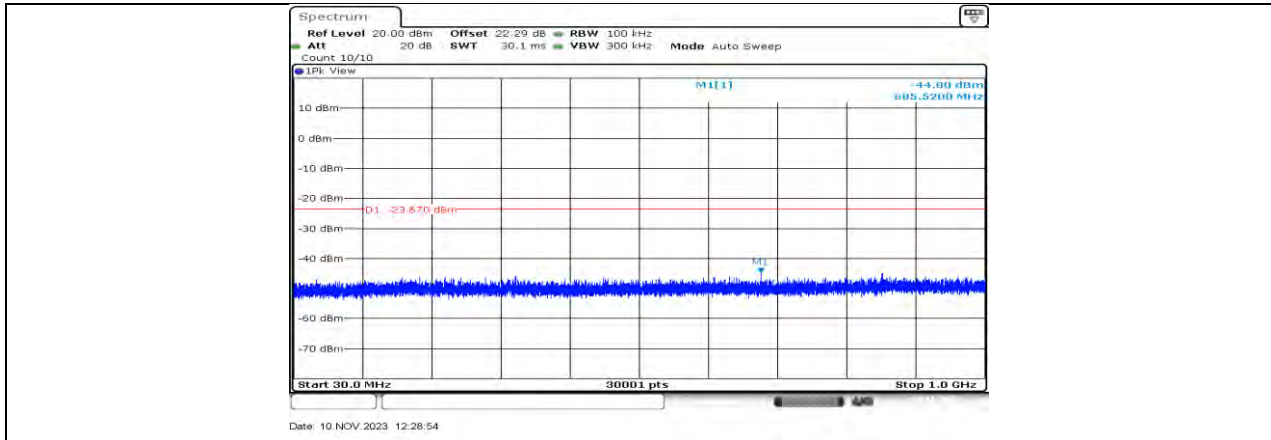
11AX20MIMO Ant2 2462 30~1000



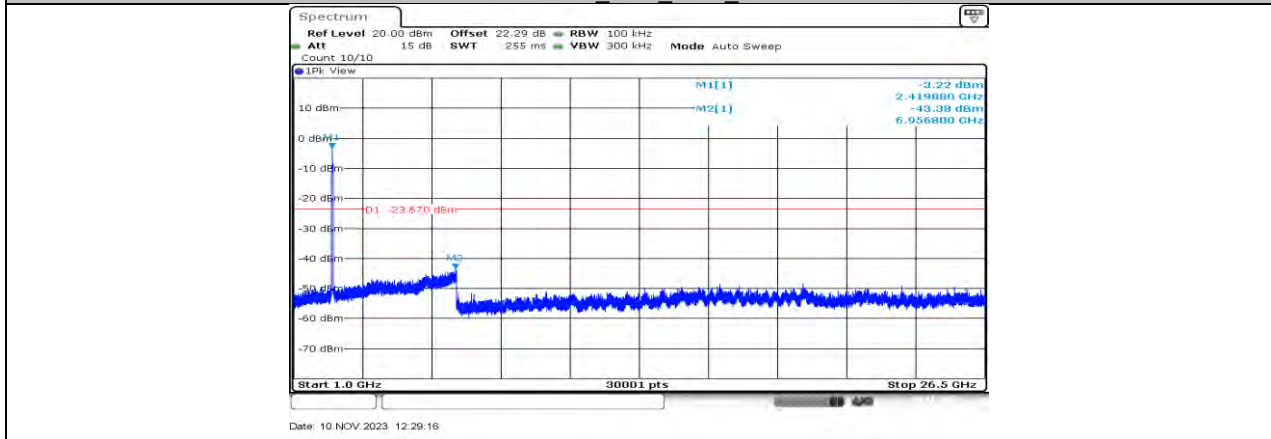
11AX20MIMO Ant2 2462 1000~26500



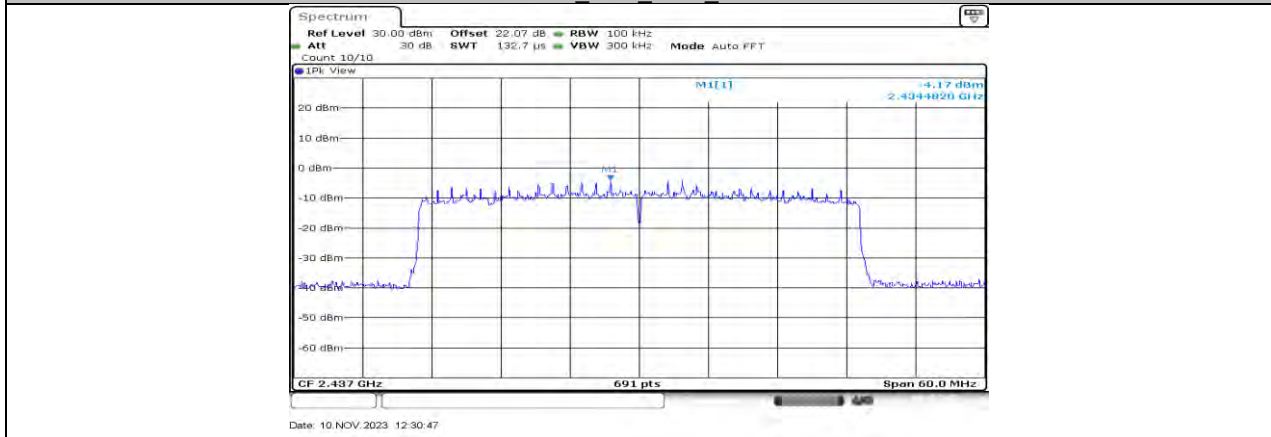




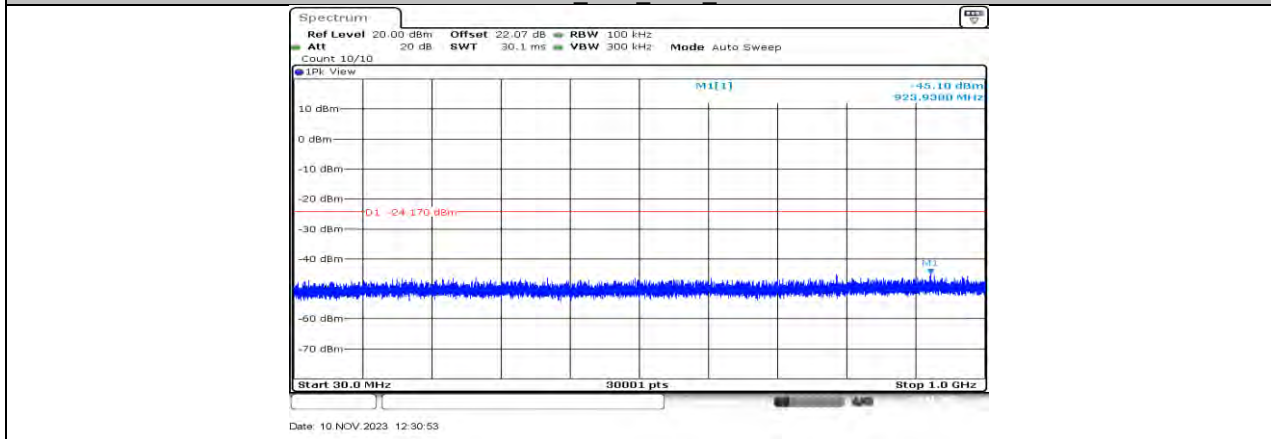
11AX40MIMO Ant2 2422 30~1000

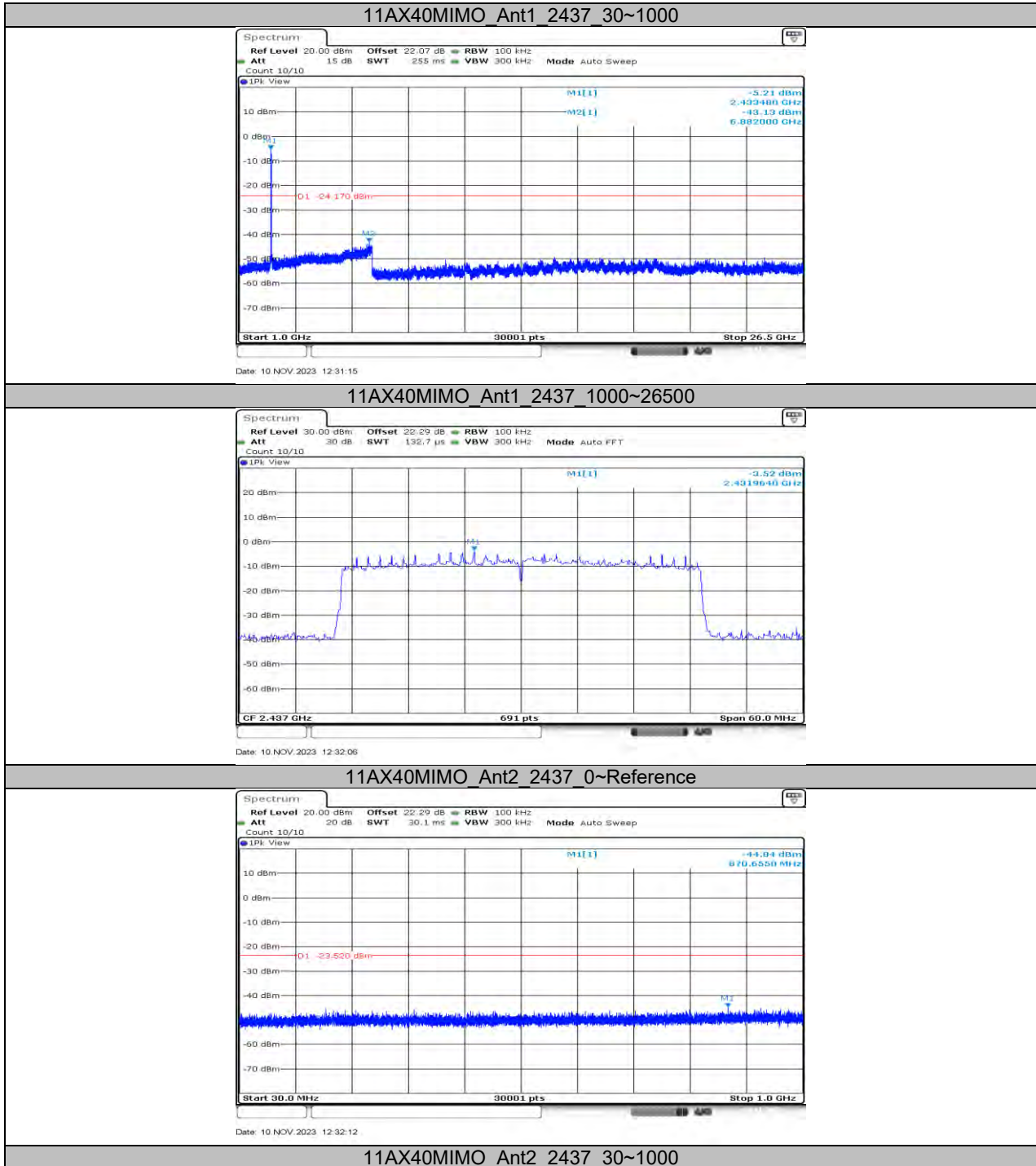


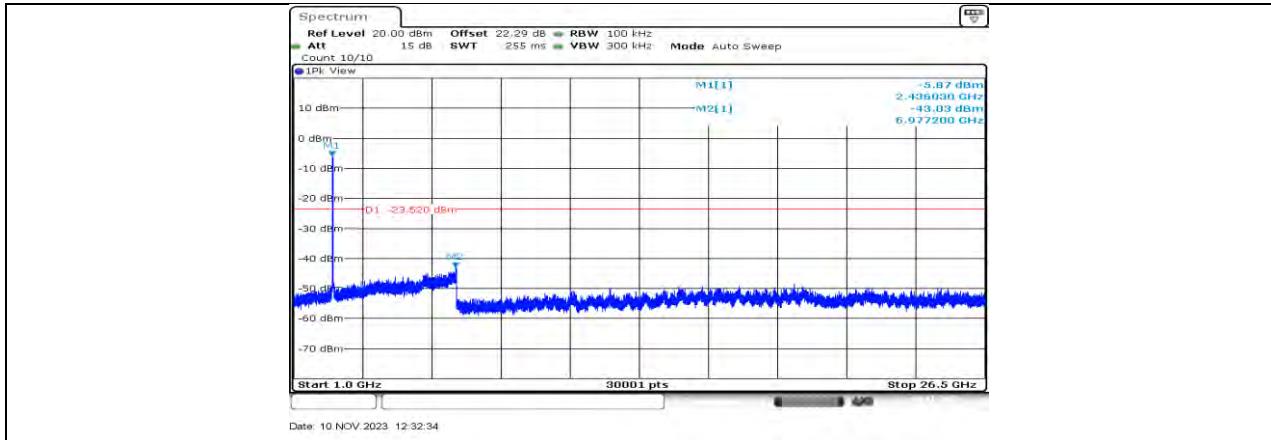
11AX40MIMO Ant2 2422 1000~26500



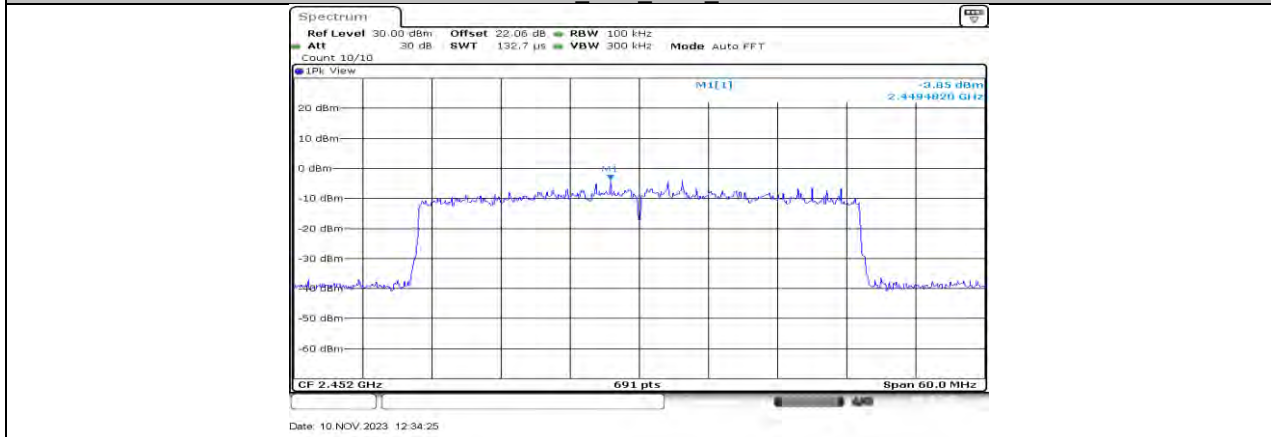
11AX40MIMO Ant2 2422 1000~26500



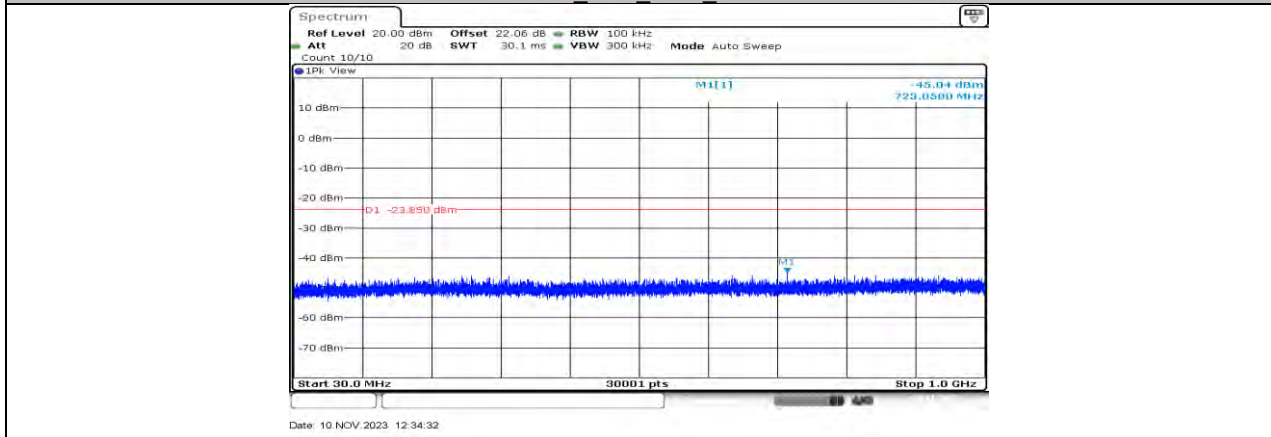




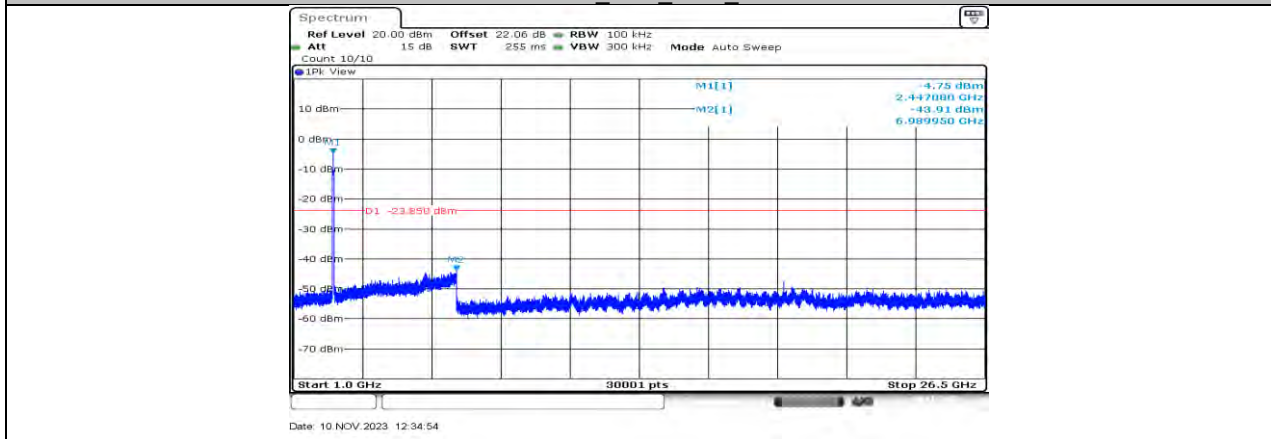
11AX40MIMO Ant2 2437 1000~26500

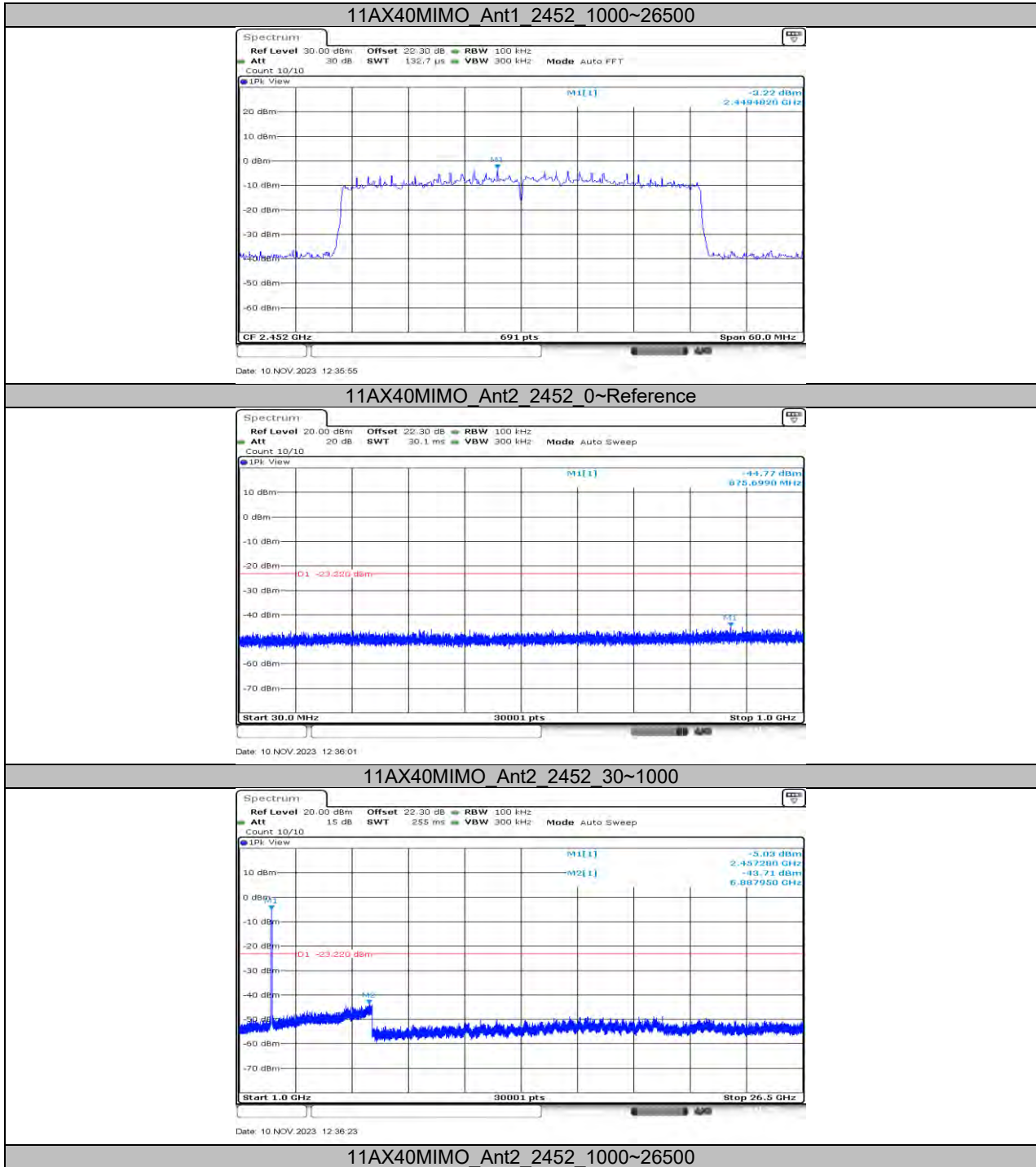


11AX40MIMO Ant1 2452 0~Reference



11AX40MIMO Ant1 2452 30~1000





11.7. APPENDIX G: DUTY CYCLE

11.7.1. 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	8.97	0.9320	93.20	0.31	0.12	1
11G	0.37	0.56	0.6607	66.07	1.80	2.70	3
11N20MIMO	1.29	1.91	0.6754	67.54	1.70	0.78	1
11N40MIMO	0.65	1.27	0.5118	51.18	2.91	1.54	2
11AX20MIMO	1.96	2.61	0.7510	75.10	1.24	0.51	1
11AX40MIMO	0.54	0.77	0.7013	70.13	1.54	1.85	2

Note:

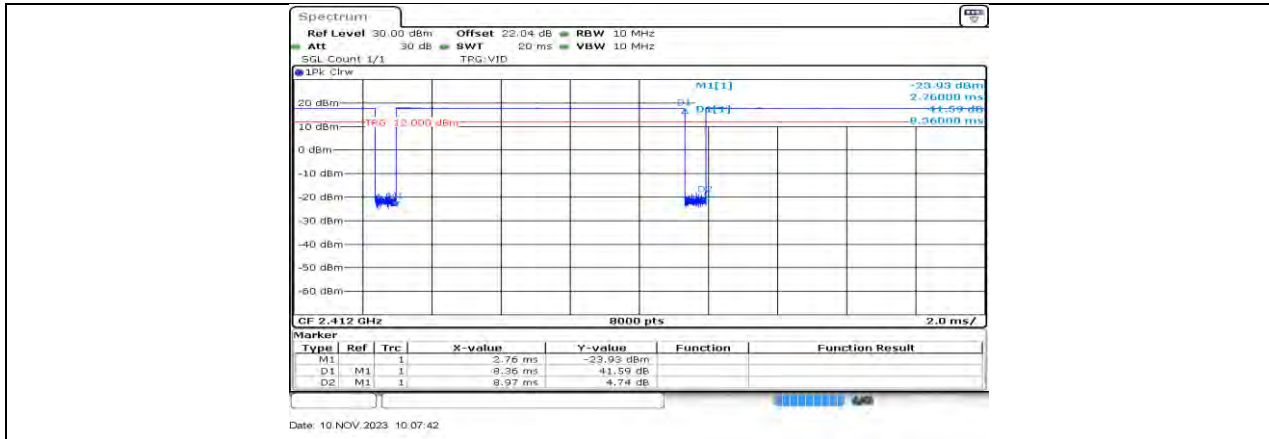
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

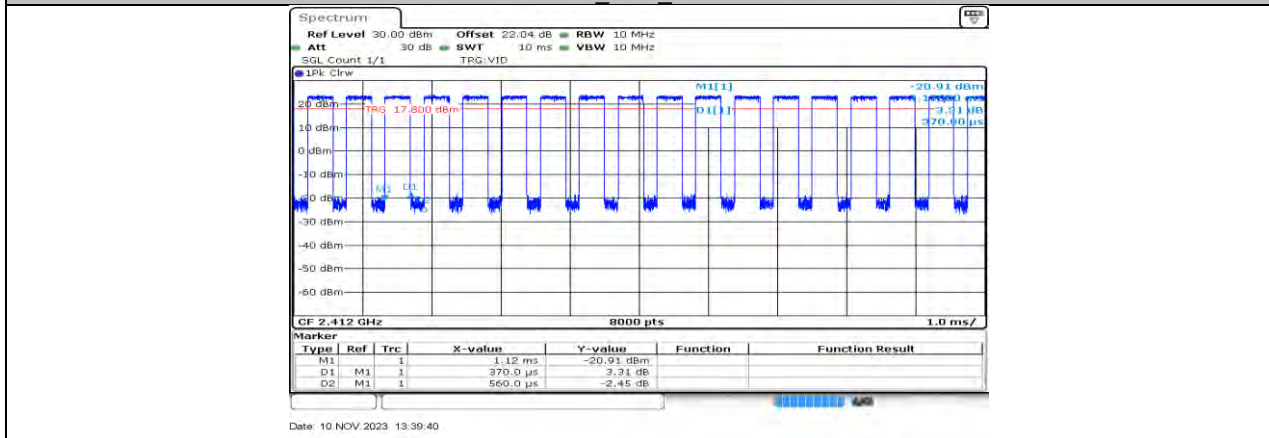
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

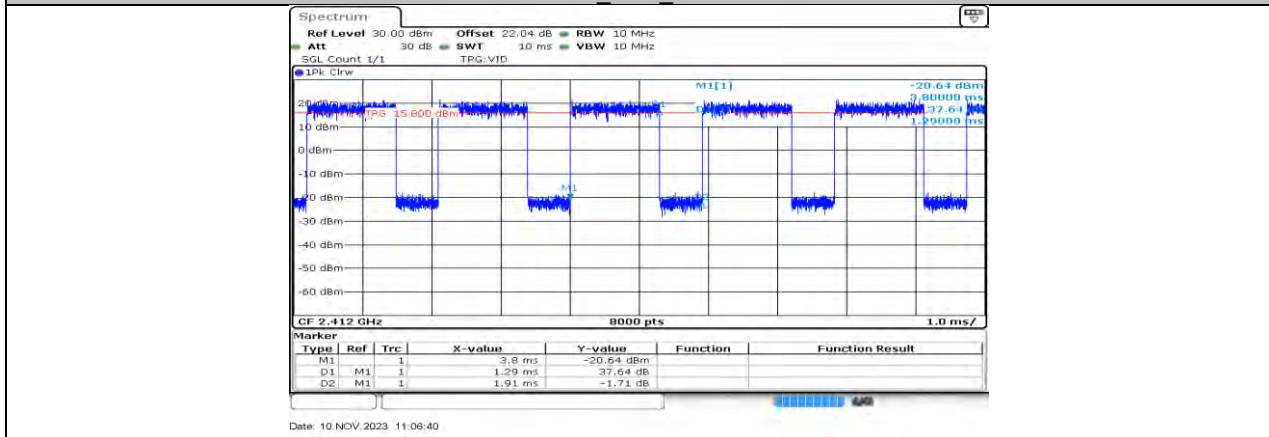
11.7.2. Test Graphs



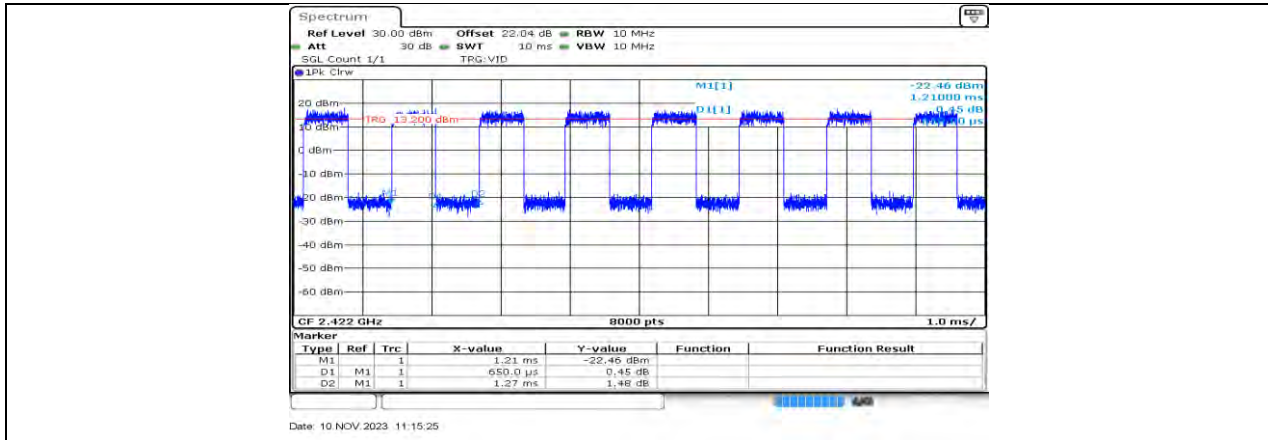
11B Ant1 2412



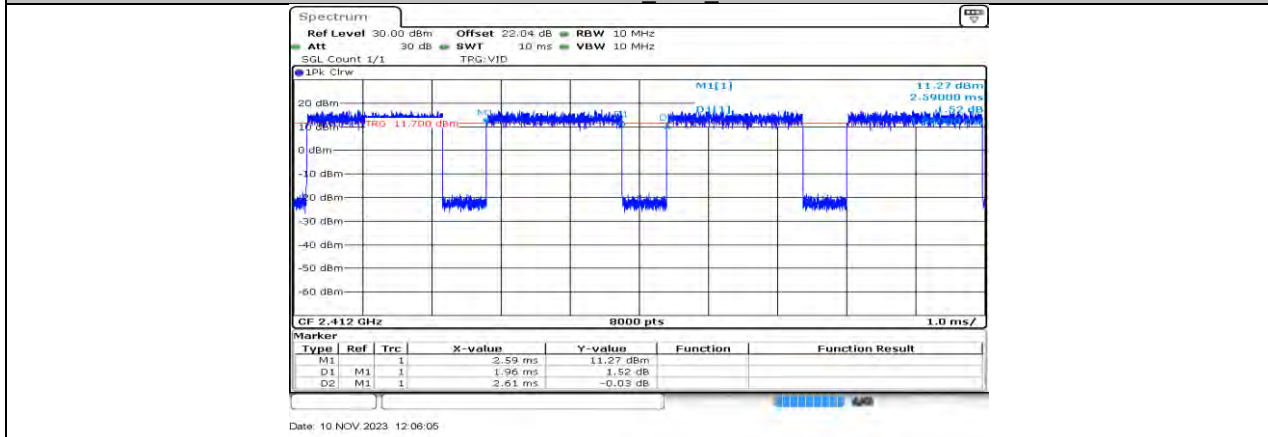
11G Ant1 2412



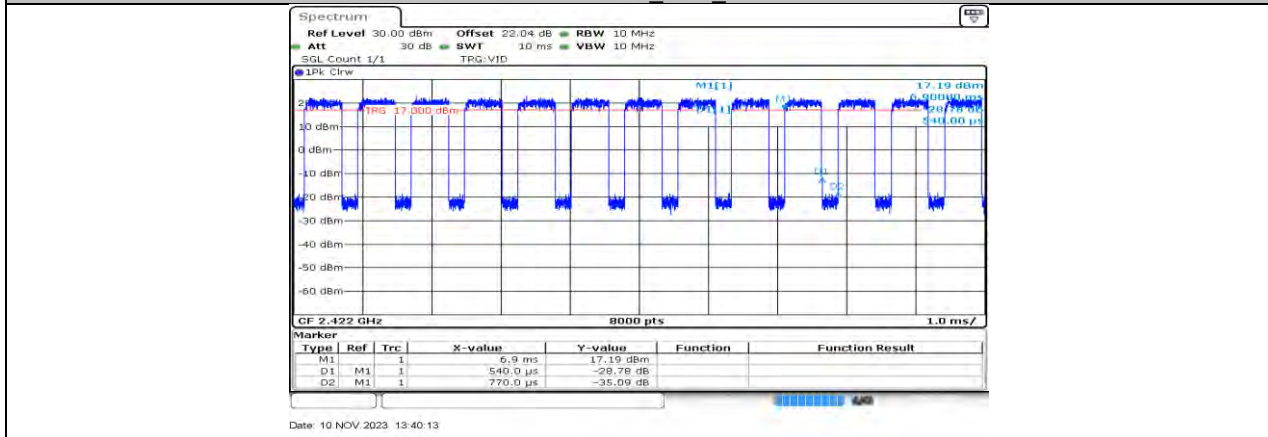
11N20MIMO_Ant1_2412



11N40MIMO Ant1_2422



11AX20MIMO Ant1_2412



11AX40MIMO Ant1_2422

END OF REPORT