

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A7BZ-N1280

Company : Shenzhen HMY Technology Co., Ltd .

EUT : IP Camera

Model Number : N1280

Report No. : CTA25102801501

Reviewed By : Eric Wang

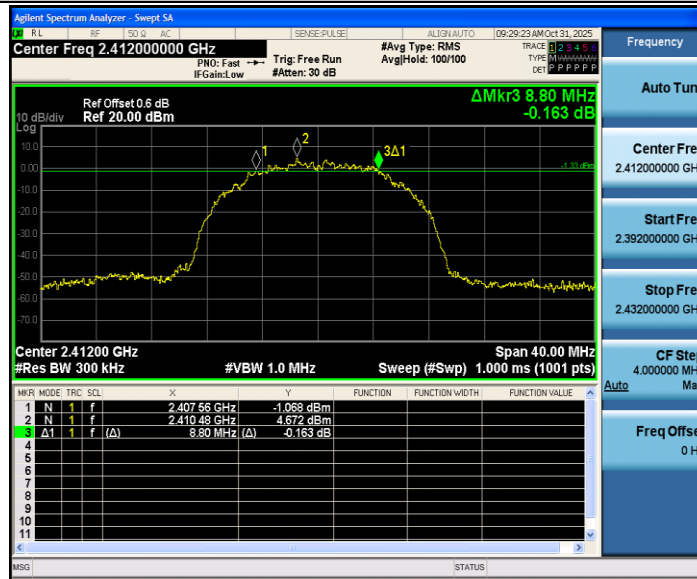
Appendix A: DTS Bandwidth

Test Result

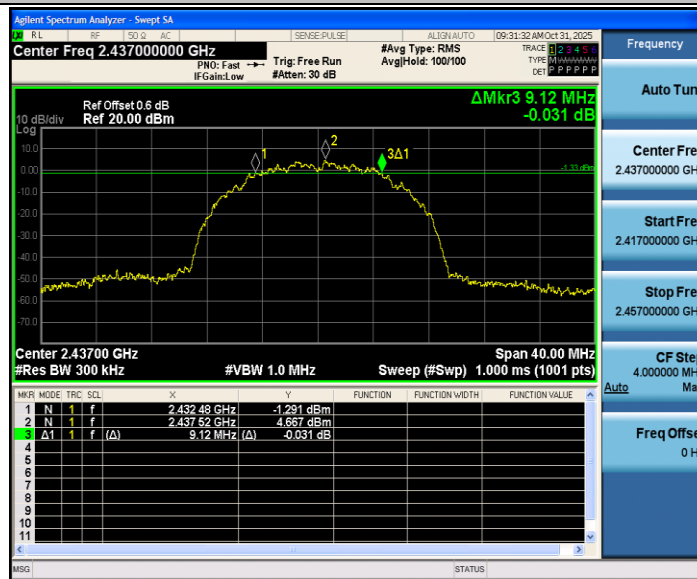
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.800	2407.560	2416.360	0.5	PASS
		2437	9.120	2432.480	2441.600	0.5	PASS
		2462	8.640	2457.560	2466.200	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.360	2453.880	2470.240	0.5	PASS
11N20SISO	Ant1	2412	17.400	2403.320	2420.720	0.5	PASS
		2437	17.280	2428.400	2445.680	0.5	PASS
		2462	17.240	2453.440	2470.680	0.5	PASS

Test Graphs

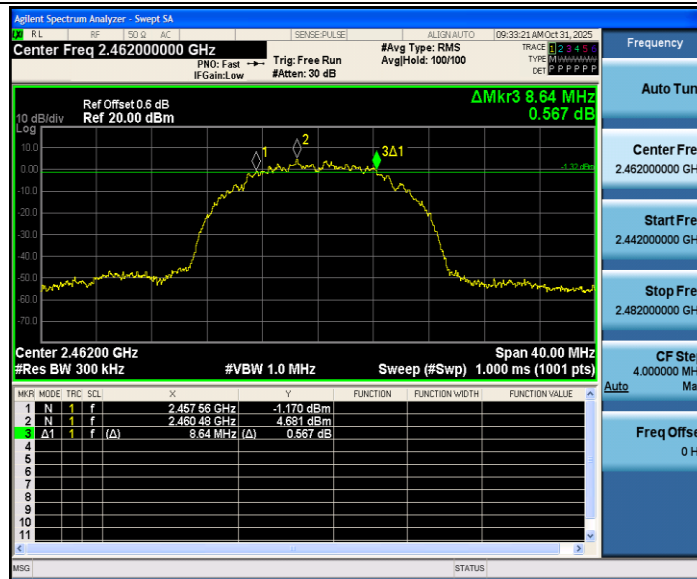
11B_Ant1_2412



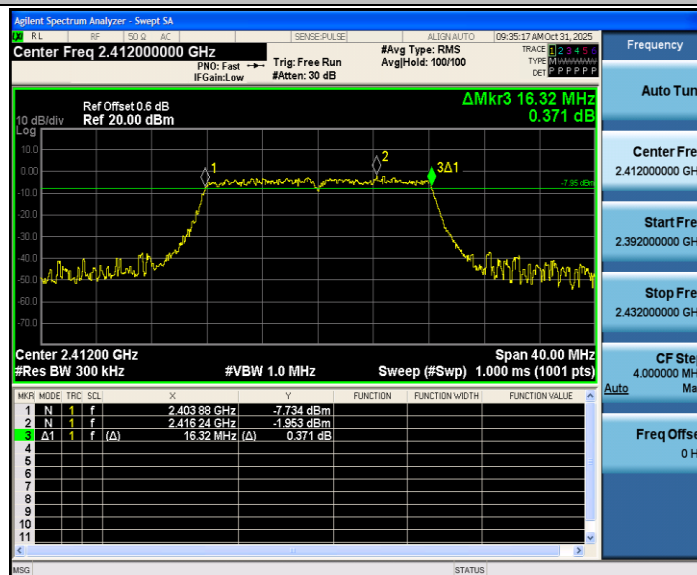
11B_Ant1_2437



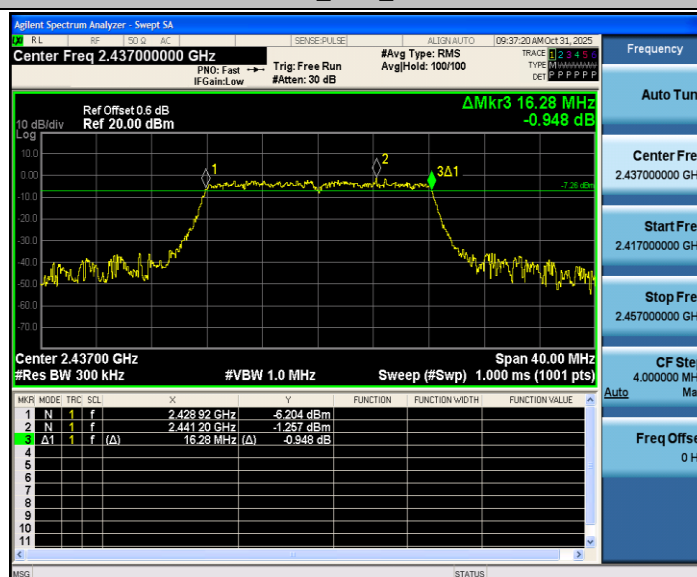
11B_Ant1_2462



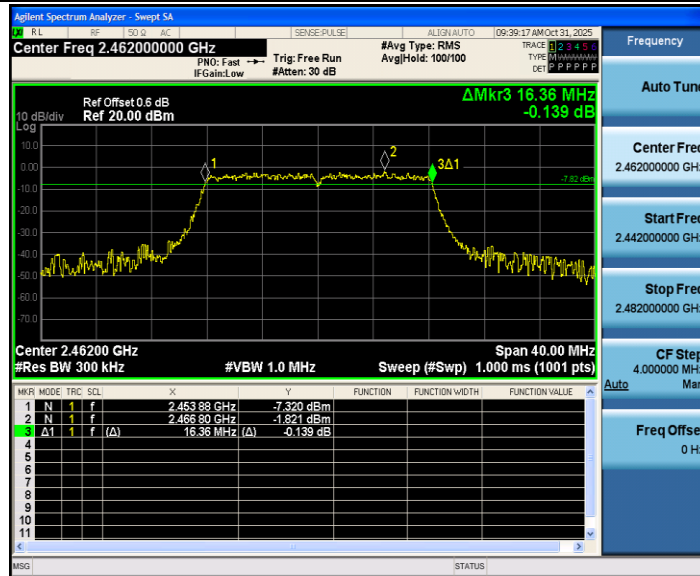
11G_Ant1_2412



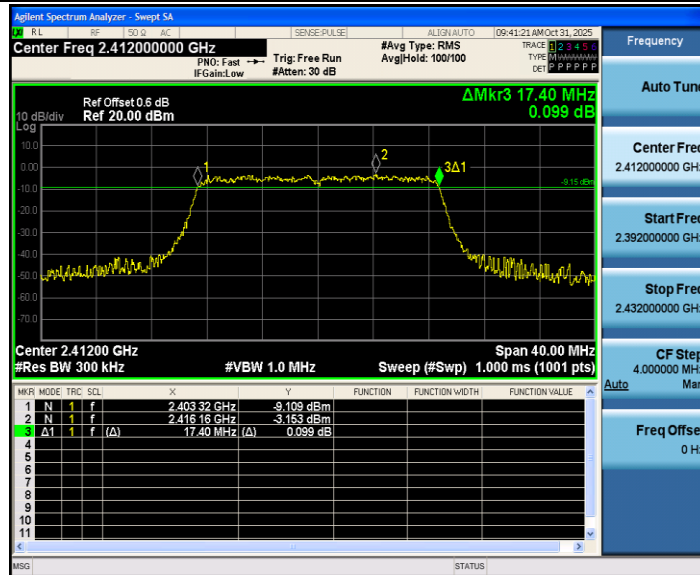
11G_Ant1_2437



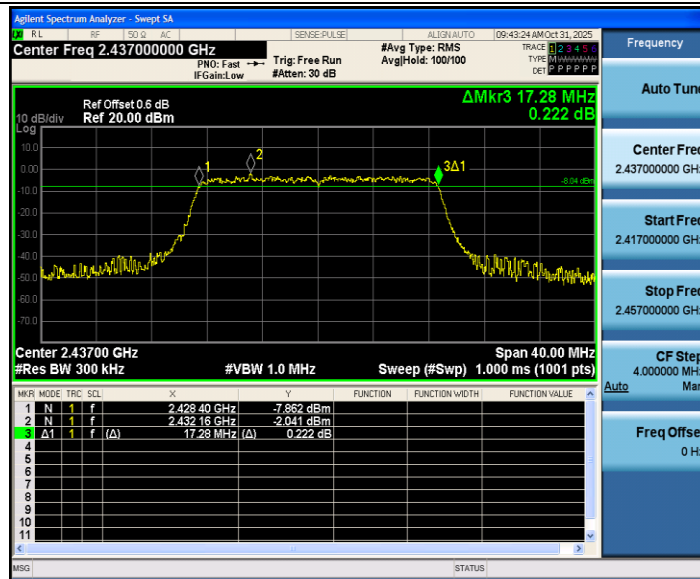
11G_Ant1_2462



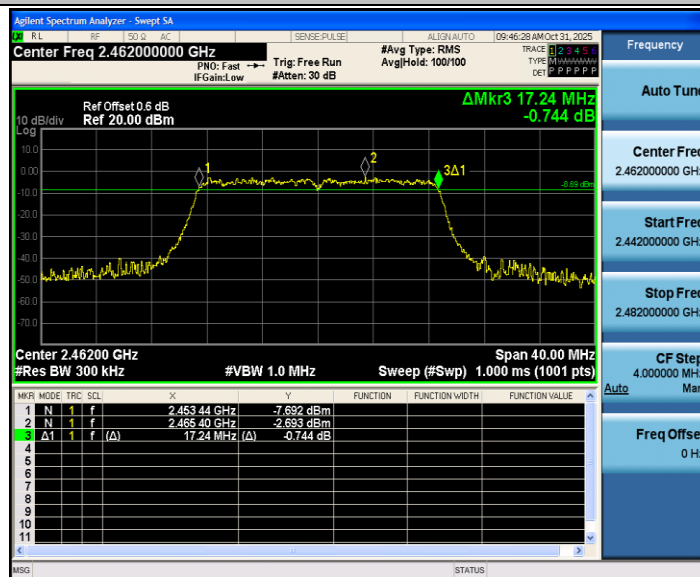
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



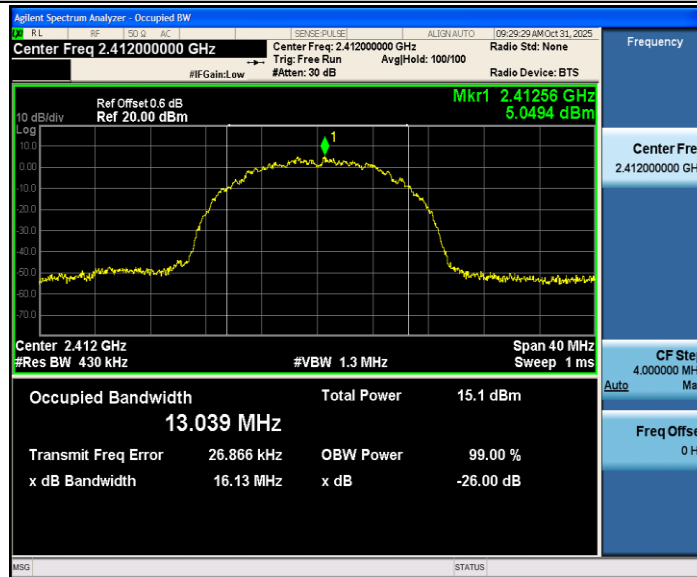
Appendix B: Occupied Channel Bandwidth

Test Result

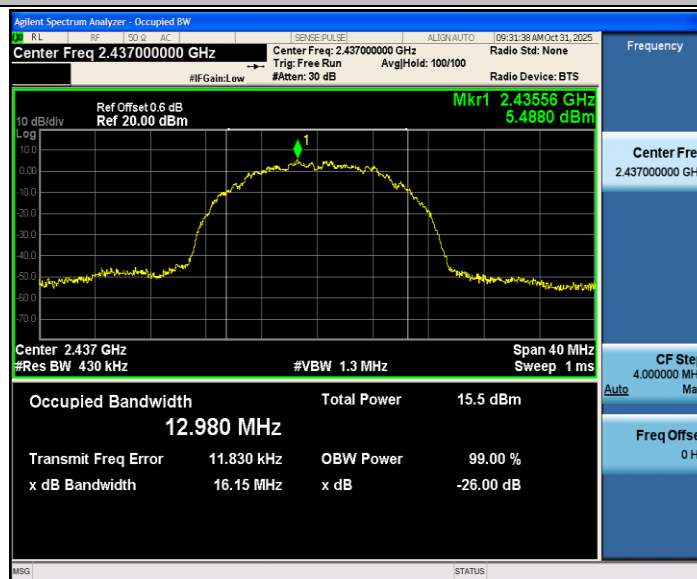
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.039	2405.5074	2418.5464	---	---
		2437	12.980	2430.5218	2443.5018	---	---
		2462	12.985	2455.5088	2468.4938	---	---
11G	Ant1	2412	16.595	2403.7379	2420.3329	---	---
		2437	16.597	2428.7269	2445.3239	---	---
		2462	16.576	2453.7291	2470.3051	---	---
11N20SISO	Ant1	2412	17.443	2403.3190	2420.7620	---	---
		2437	17.457	2428.3071	2445.7641	---	---
		2462	17.445	2453.3082	2470.7532	---	---

Test Graphs

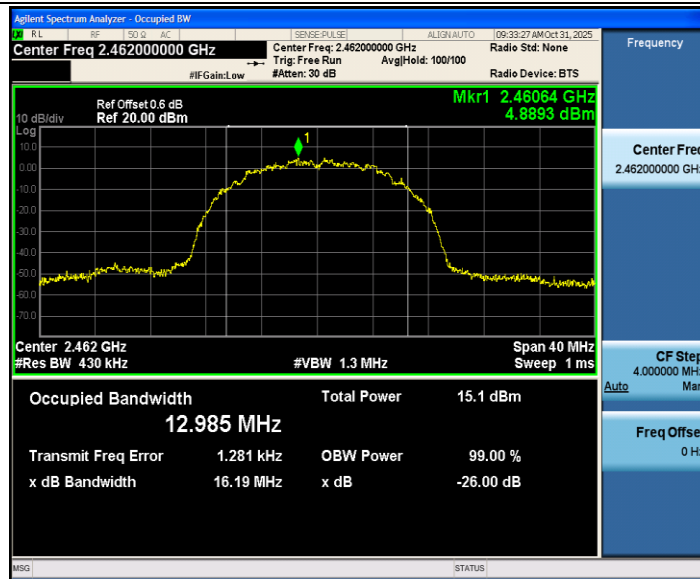
11B_Ant1_2412



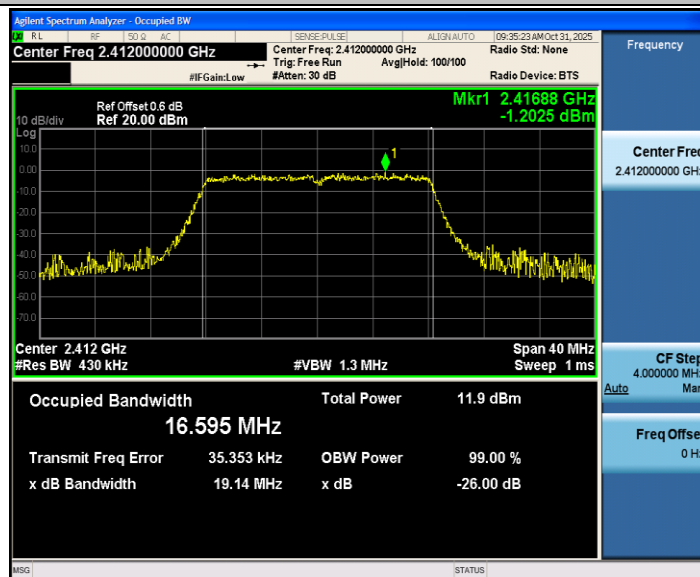
11B_Ant1_2437



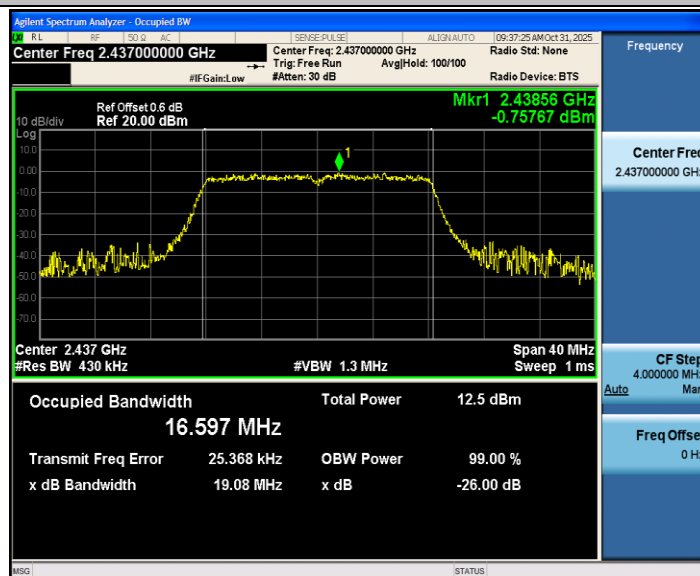
11B_Ant1_2462



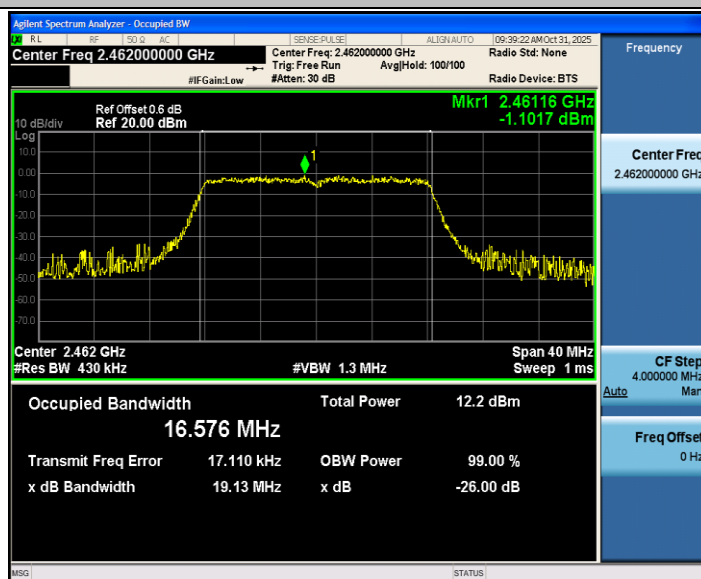
11G_Ant1_2412



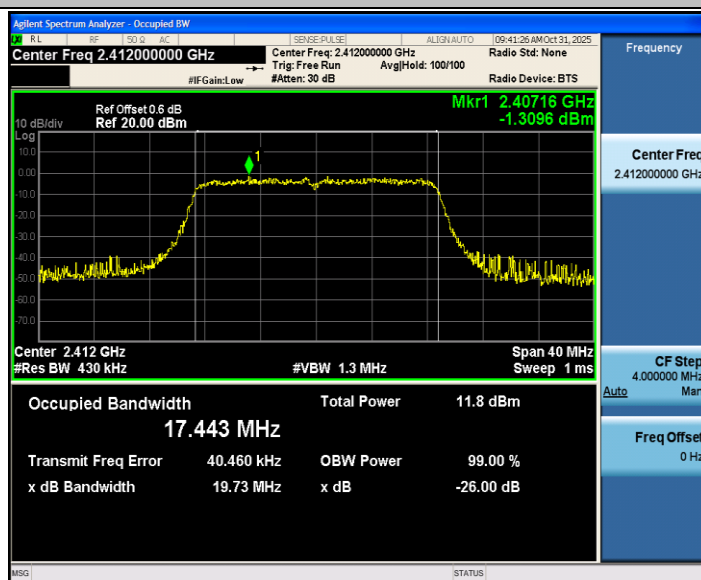
11G_Ant1_2437



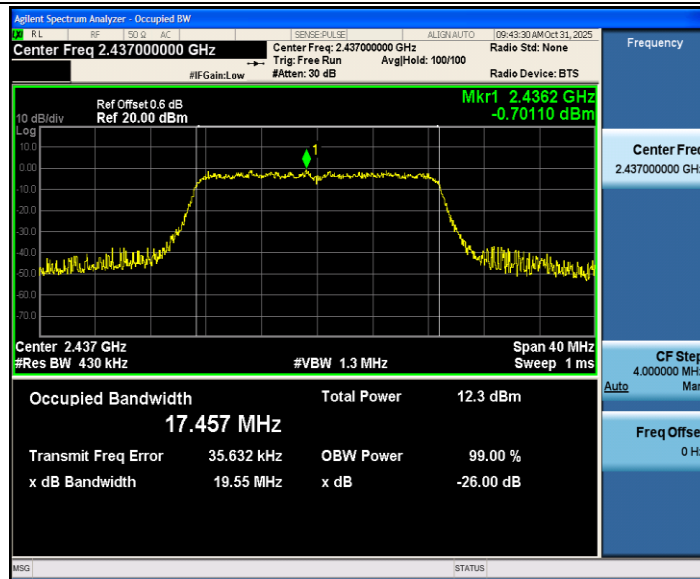
11G_Ant1_2462



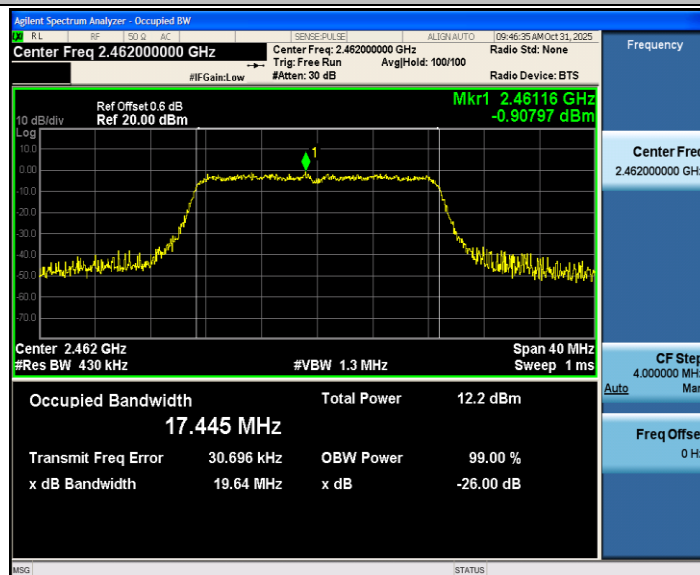
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.67	≤30.00	PASS
		2437	15.01	≤30.00	PASS
		2462	14.55	≤30.00	PASS
11G	Ant1	2412	12.82	≤30.00	PASS
		2437	13.32	≤30.00	PASS
		2462	13.12	≤30.00	PASS
11N20SISO	Ant1	2412	12.97	≤30.00	PASS
		2437	13.51	≤30.00	PASS
		2462	13.28	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.52	≤8.00	PASS
		2437	-13.92	≤8.00	PASS
		2462	-14.03	≤8.00	PASS
11G	Ant1	2412	-21.75	≤8.00	PASS
		2437	-21.07	≤8.00	PASS
		2462	-21.37	≤8.00	PASS
11N20SISO	Ant1	2412	-21.67	≤8.00	PASS
		2437	-21.02	≤8.00	PASS
		2462	-21.11	≤8.00	PASS

Test Graphs

11B_Ant1_2412



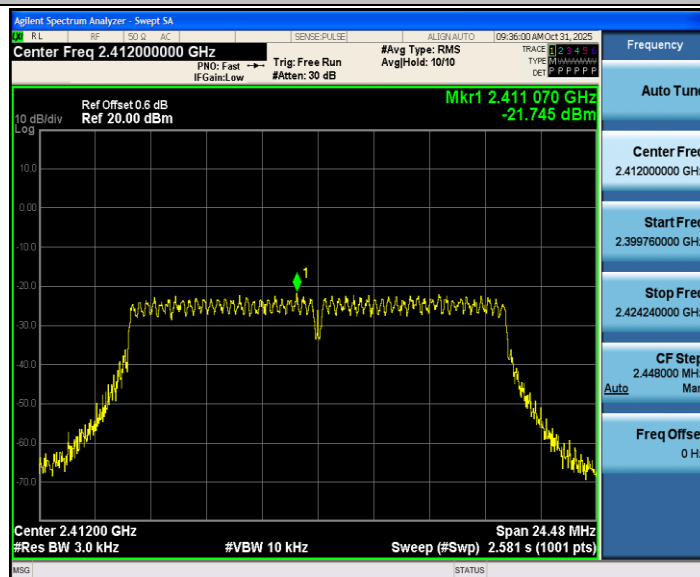
11B_Ant1_2437



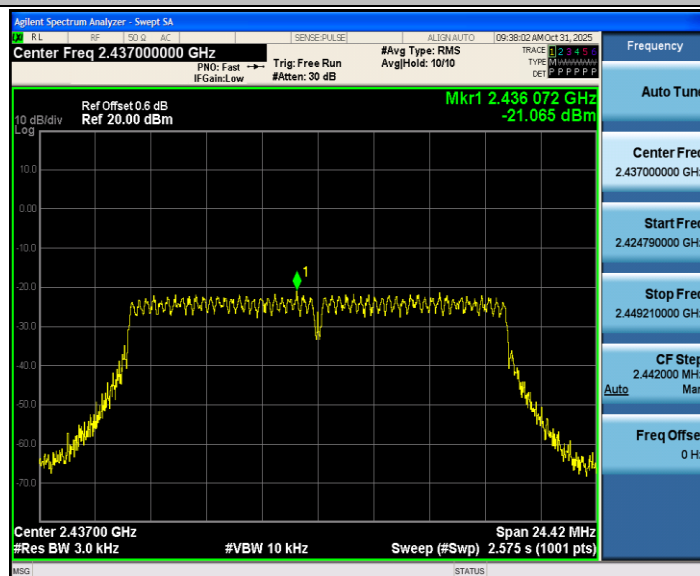
11B_Ant1_2462



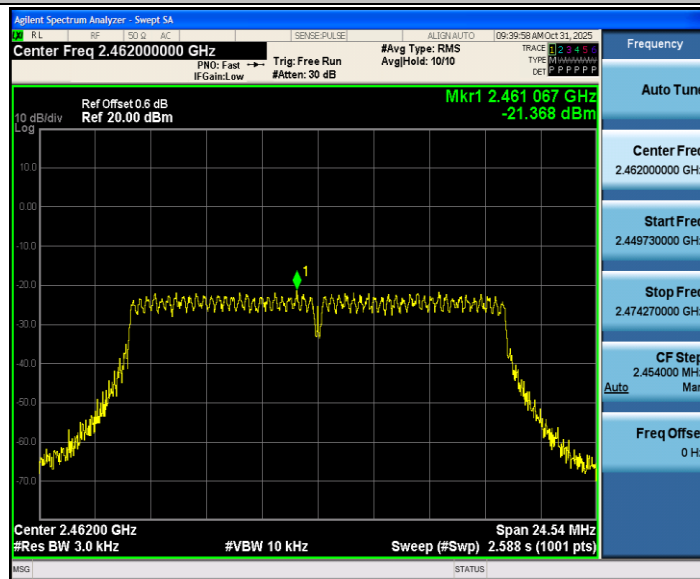
11G_Ant1_2412



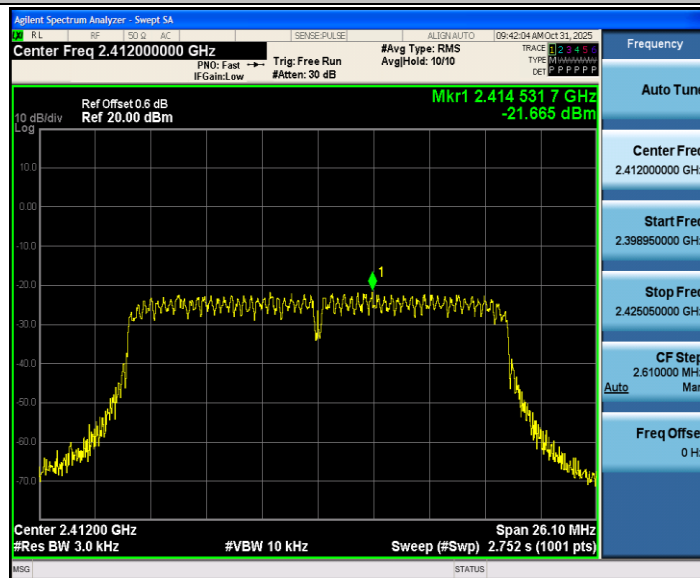
11G_Ant1_2437



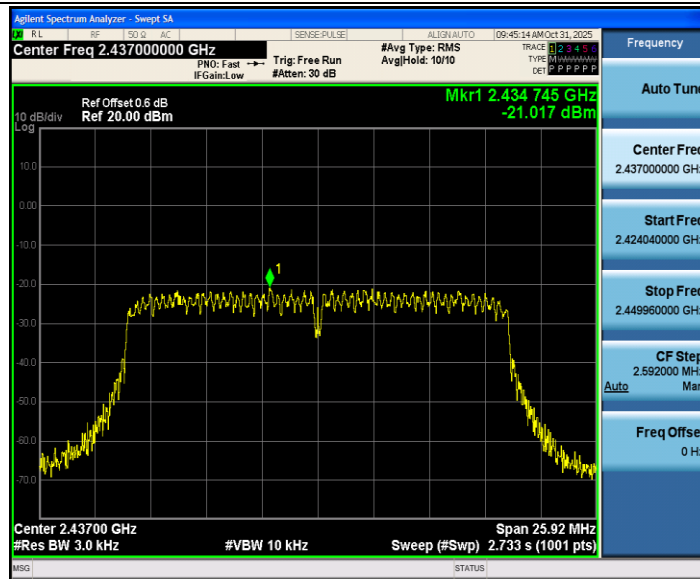
11G_Ant1_2462



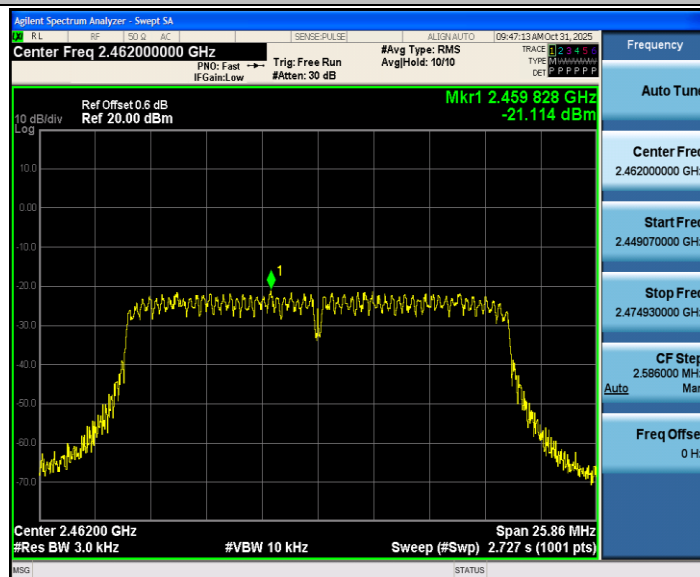
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



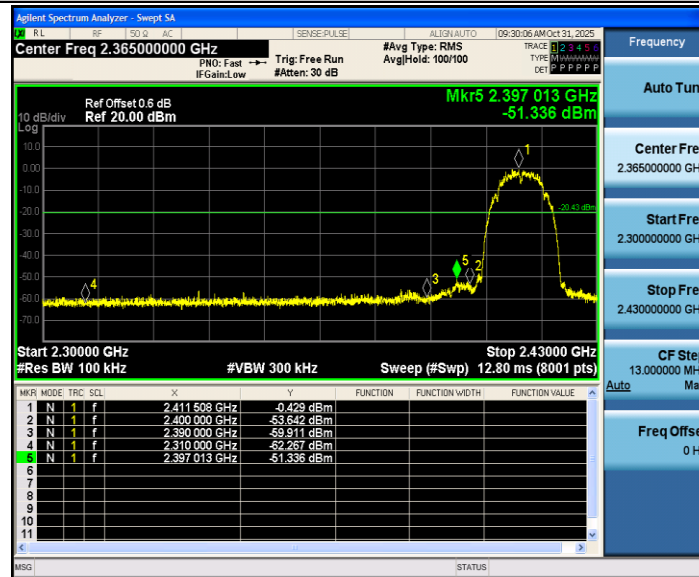
Appendix E: Band edge measurements

Test Result

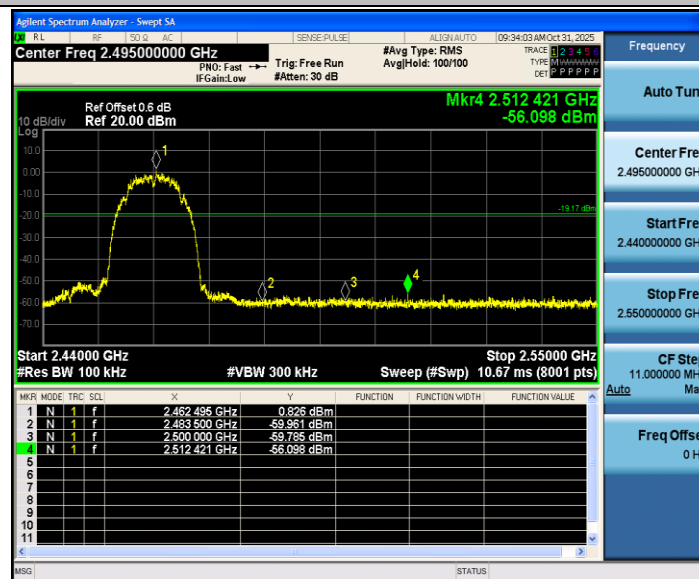
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.43	-51.34	≤-20.43	PASS
		High	2462	0.83	-56.1	≤-19.17	PASS
11G	Ant1	Low	2412	-7.52	-45.76	≤-27.52	PASS
		High	2462	-7.55	-52.35	≤-27.55	PASS
11N20SISO	Ant1	Low	2412	-7.89	-47.97	≤-27.89	PASS
		High	2462	-7.28	-54.47	≤-27.28	PASS

Test Graphs

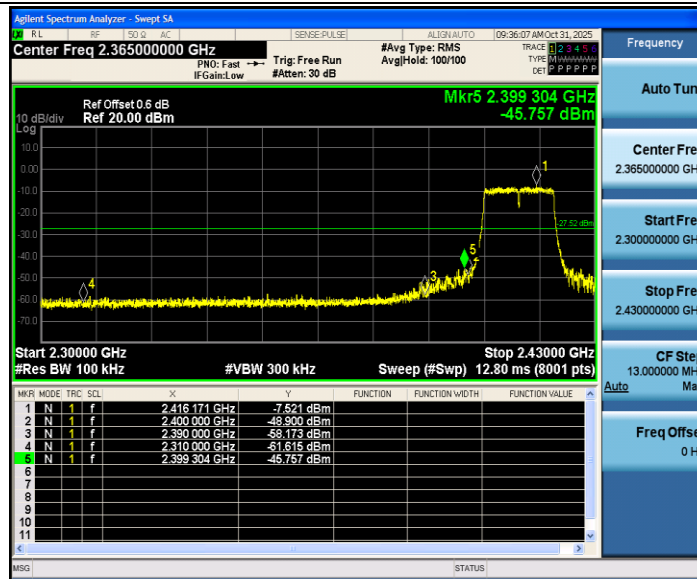
11B_Ant1_Low_2412



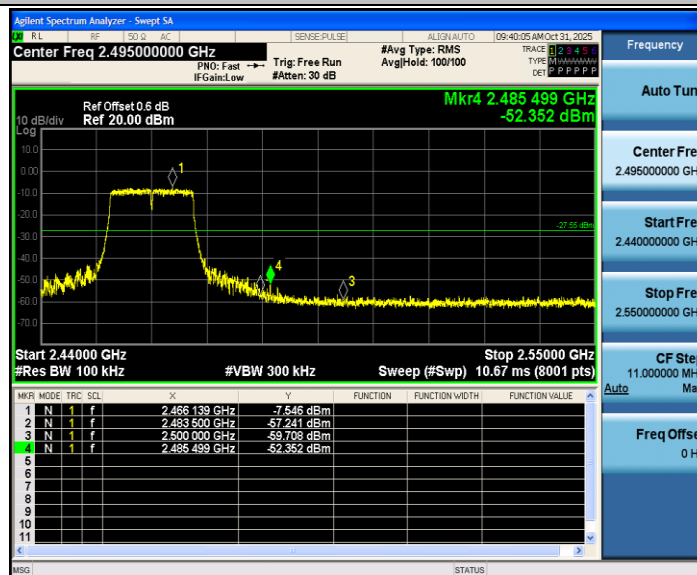
11B_Ant1_High_2462



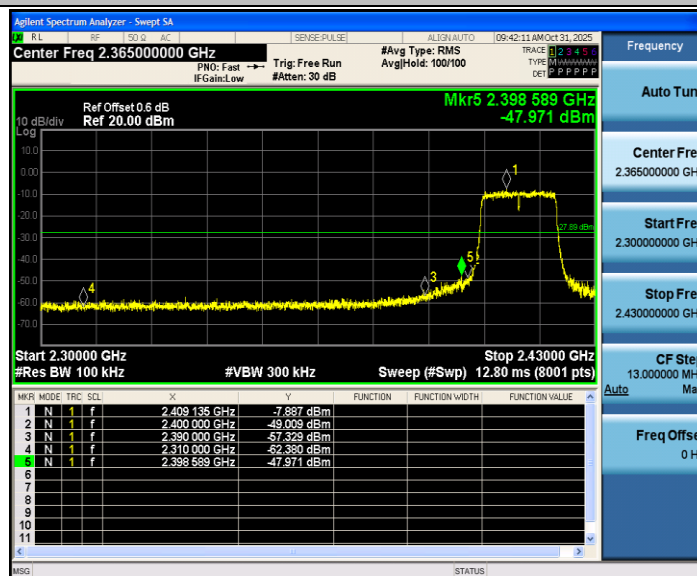
11G_Ant1_Low_2412



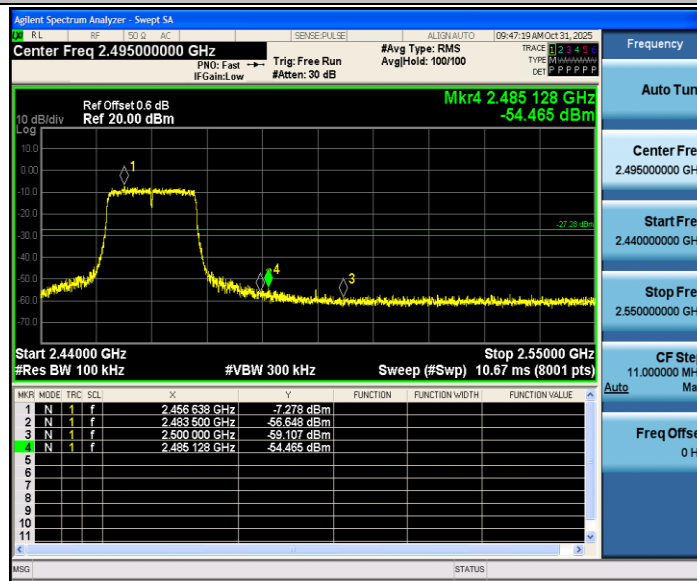
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

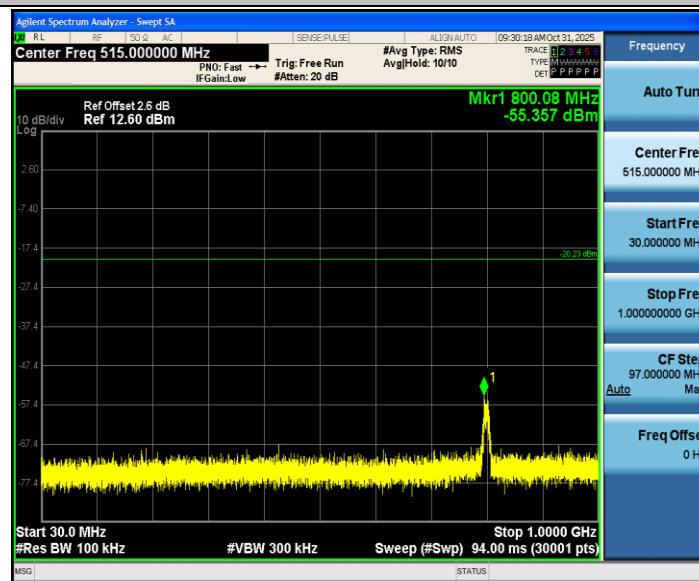
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-55.36	≤-20.23	PASS
			1000~26500	-0.23	-44.66	≤-20.23	PASS
		2437	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-56.35	≤-20.36	PASS
			1000~26500	-0.36	-45.09	≤-20.36	PASS
		2462	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-55.6	≤-21.3	PASS
			1000~26500	-1.30	-45.66	≤-21.3	PASS
11G	Ant1	2412	Reference	-8.44	-8.44	---	PASS
			30~1000	-8.44	-60.2	≤-28.44	PASS
			1000~26500	-8.44	-44.33	≤-28.44	PASS
		2437	Reference	-7.30	-7.30	---	PASS
			30~1000	-7.30	-56.68	≤-27.3	PASS
			1000~26500	-7.30	-44.86	≤-27.3	PASS
		2462	Reference	-7.81	-7.81	---	PASS
			30~1000	-7.81	-59.6	≤-27.81	PASS
			1000~26500	-7.81	-45.4	≤-27.81	PASS
11N20SISO	Ant1	2412	Reference	-8.21	-8.21	---	PASS
			30~1000	-8.21	-59.39	≤-28.21	PASS
			1000~26500	-8.21	-44.35	≤-28.21	PASS
		2437	Reference	-7.34	-7.34	---	PASS
			30~1000	-7.34	-60.12	≤-27.34	PASS
			1000~26500	-7.34	-44.91	≤-27.34	PASS
		2462	Reference	-7.86	-7.86	---	PASS
			30~1000	-7.86	-59.44	≤-27.86	PASS
			1000~26500	-7.86	-45.32	≤-27.86	PASS

Test Graphs

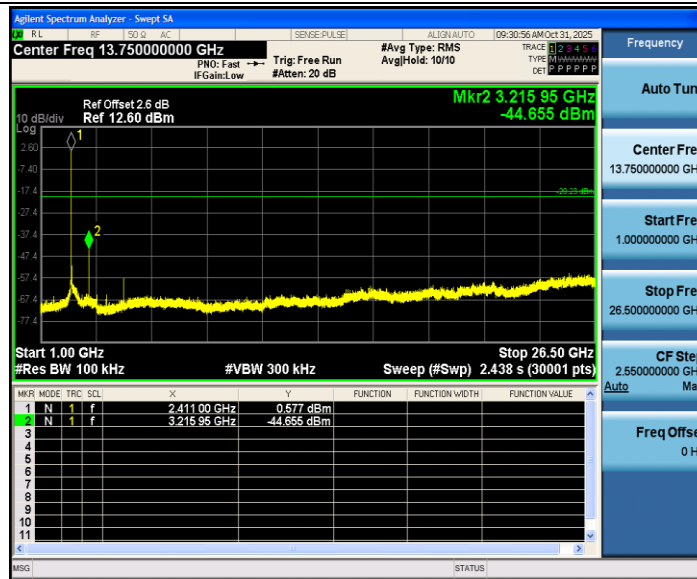
11B_Ant1_2412_0~Reference



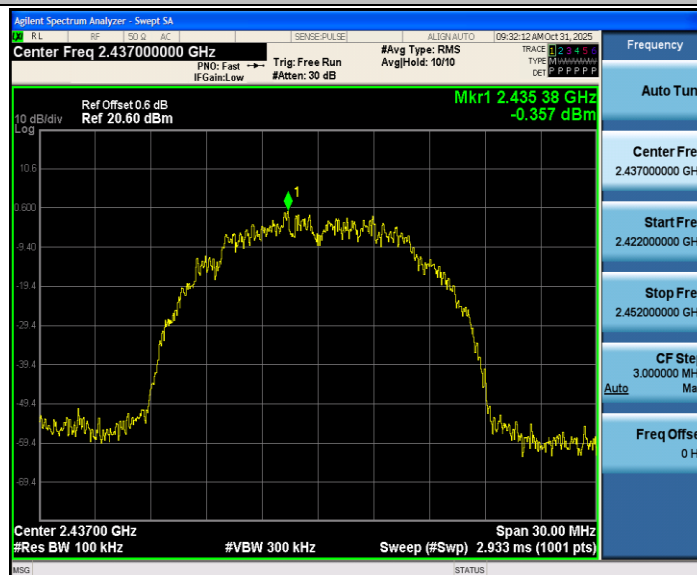
11B_Ant1_2412_30~1000



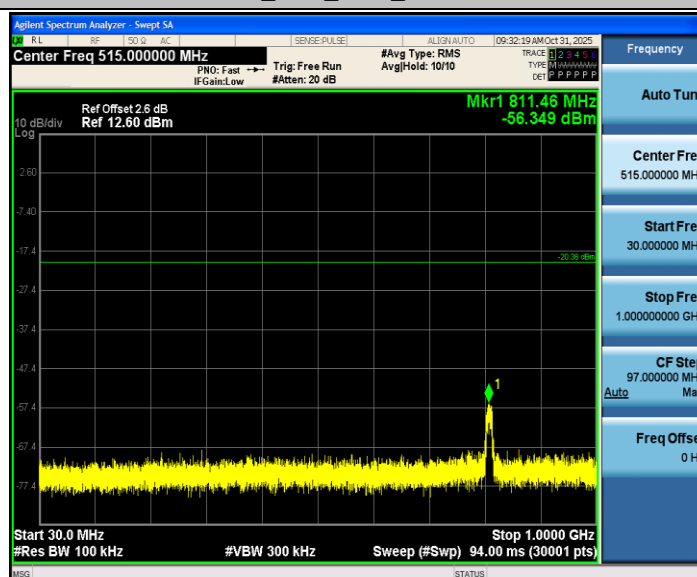
11B_Ant1_2412_1000~26500



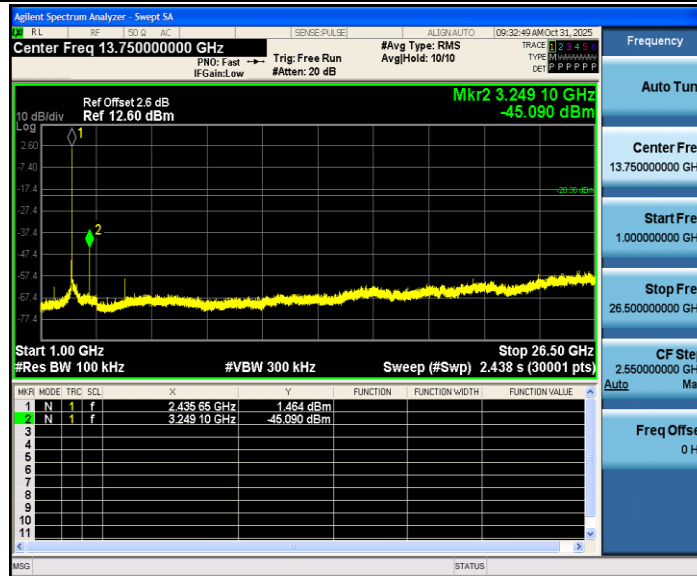
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



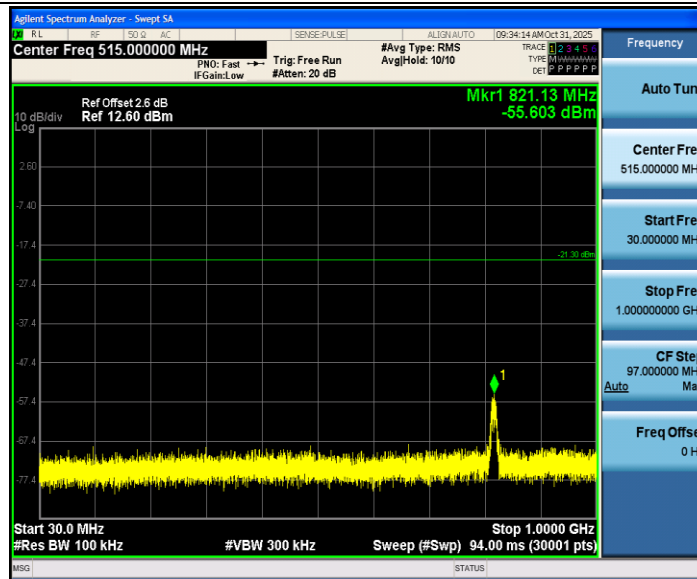
11B_Ant1_2437_1000~26500



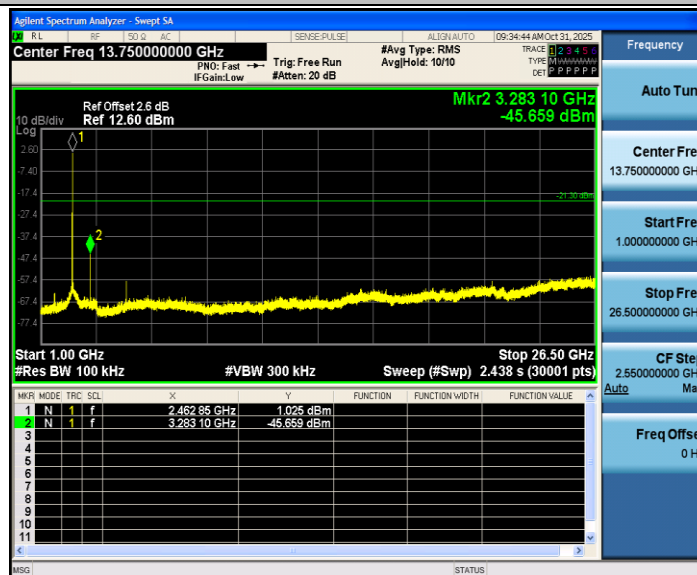
11B_Ant1_2462_0~Reference



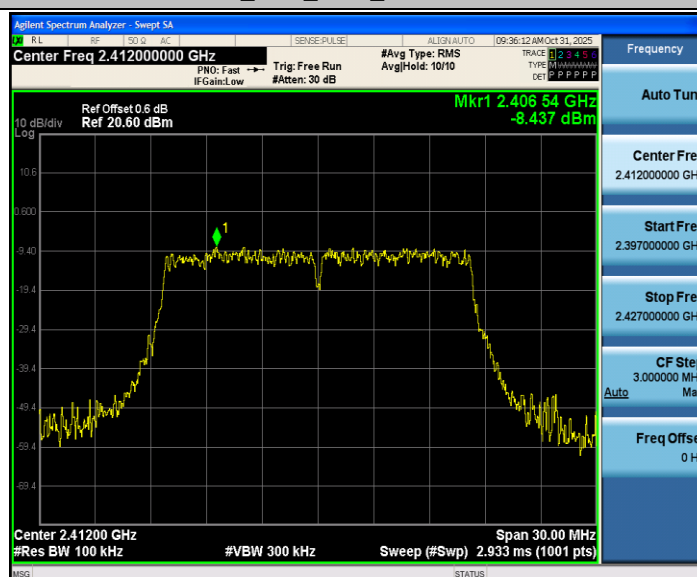
11B_Ant1_2462_30~1000



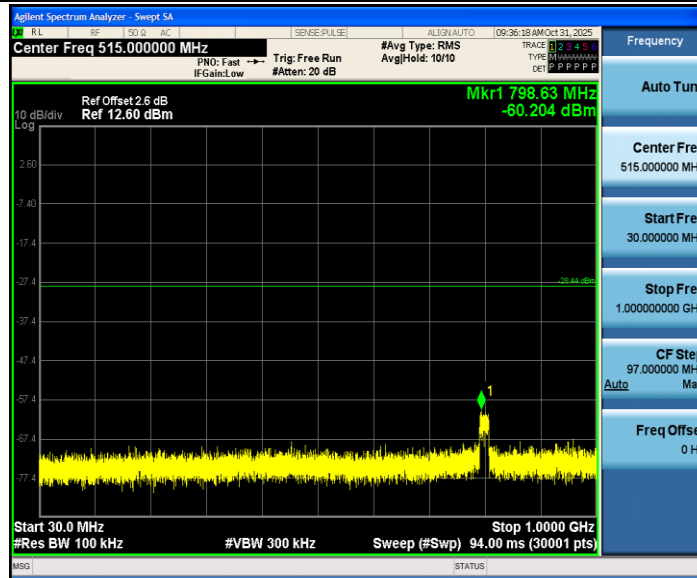
11B_Ant1_2462_1000~26500



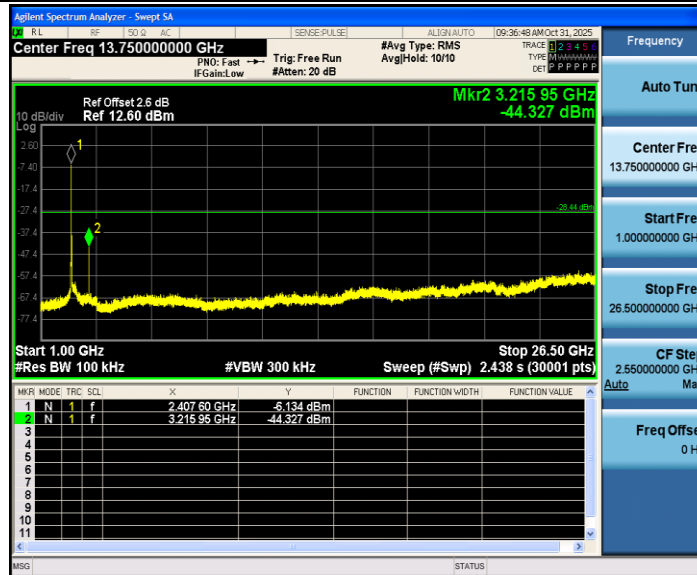
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



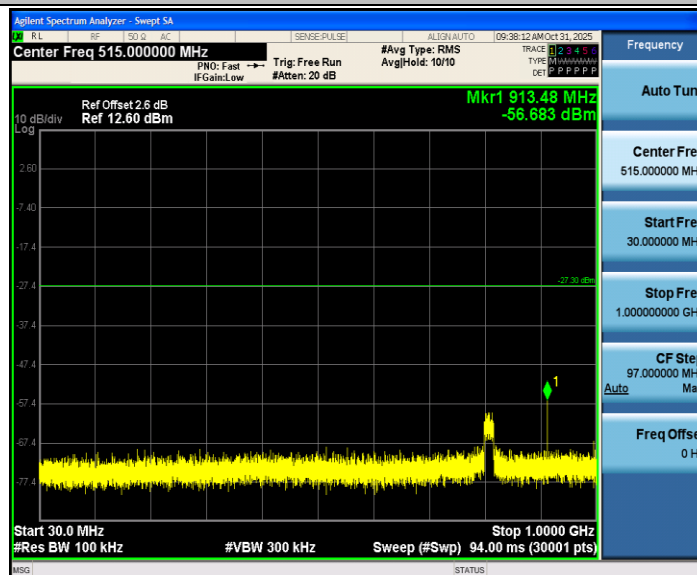
11G_Ant1_2412_1000~26500



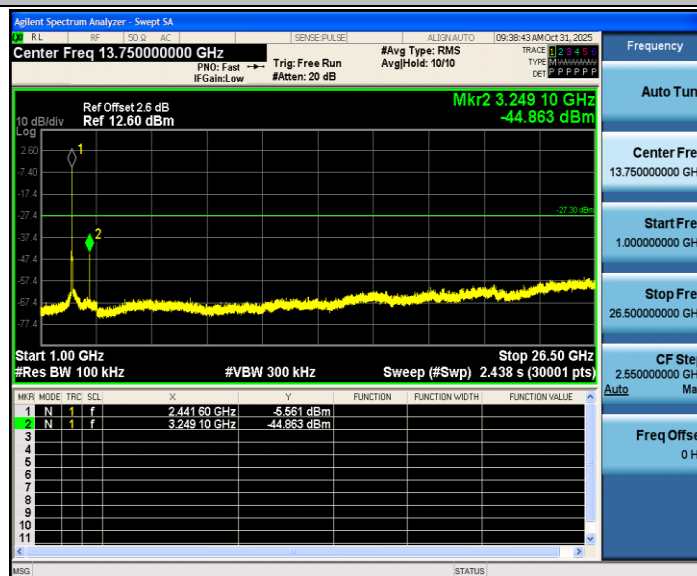
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



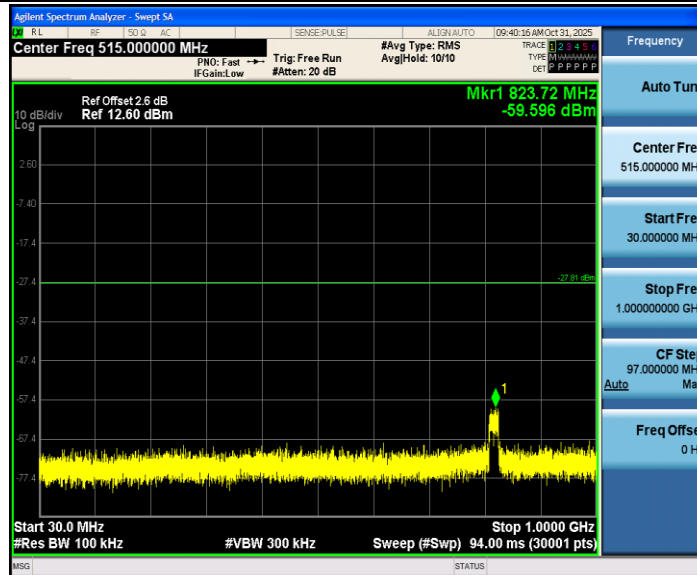
11G_Ant1_2437_1000~26500



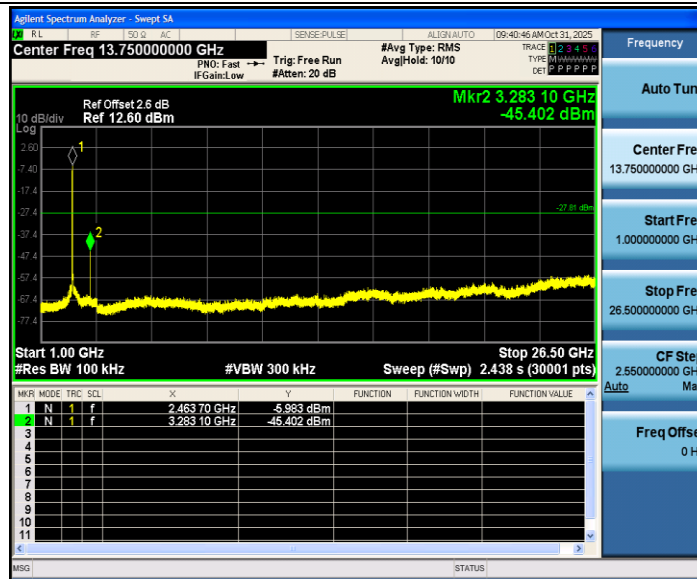
11G_Ant1_2462_0~Reference



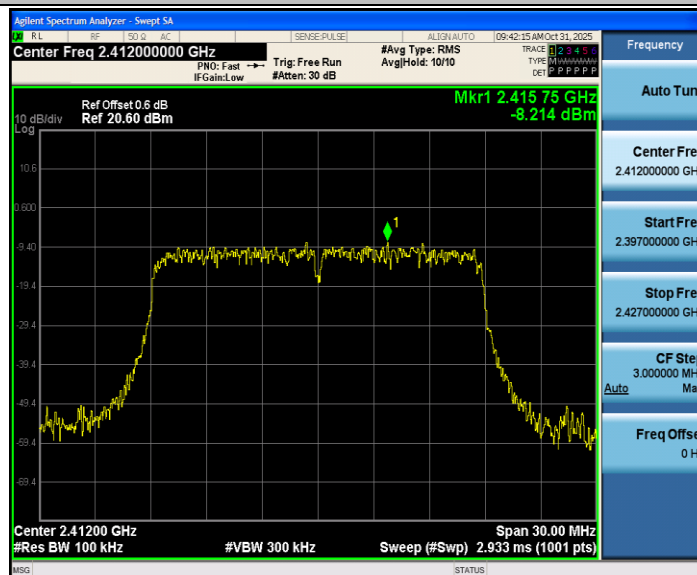
11G_Ant1_2462_30~1000



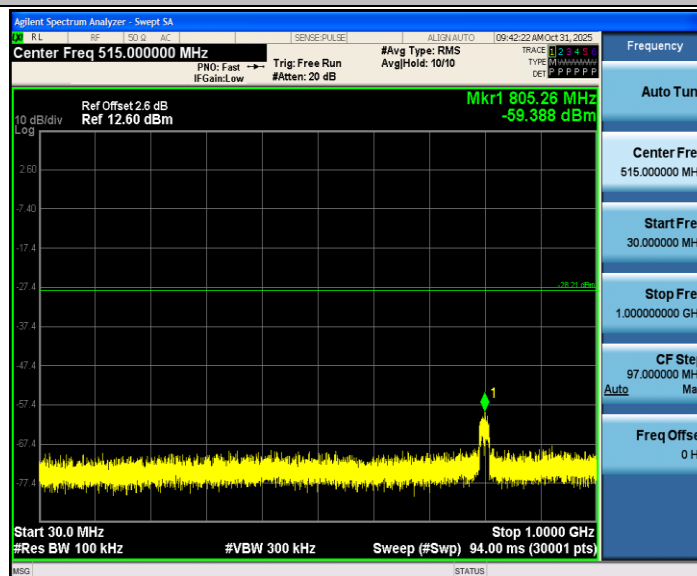
11G_Ant1_2462_1000~26500



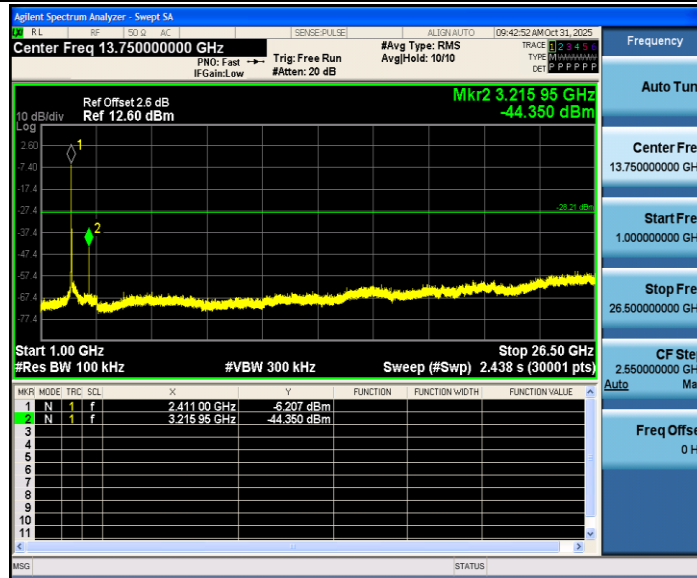
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



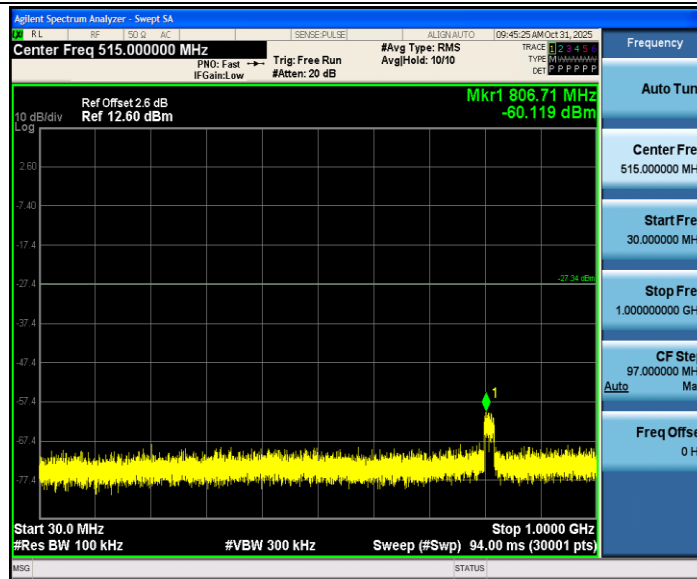
11N20SISO_Ant1_2412_1000~26500



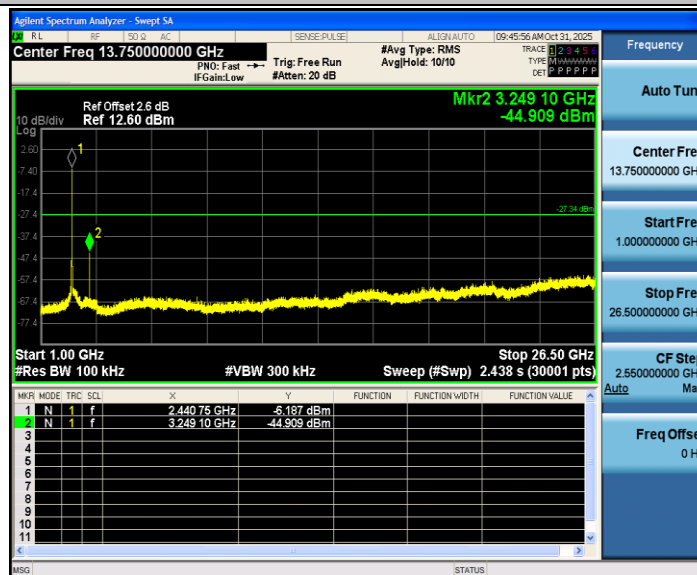
11N20SISO_Ant1_2437_0~Reference



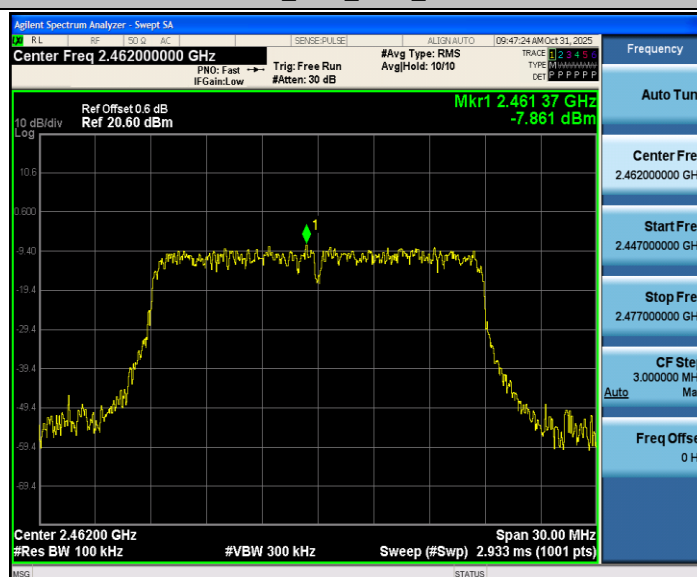
11N20SISO_Ant1_2437_30~1000



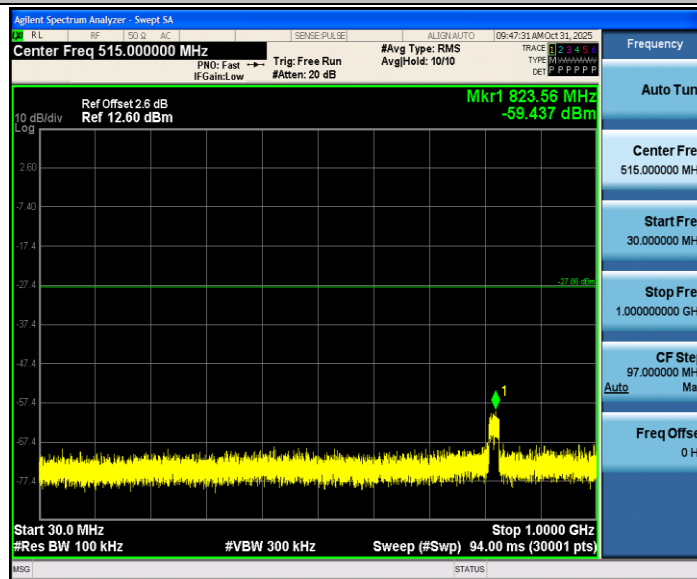
11N20SISO_Ant1_2437_1000~26500



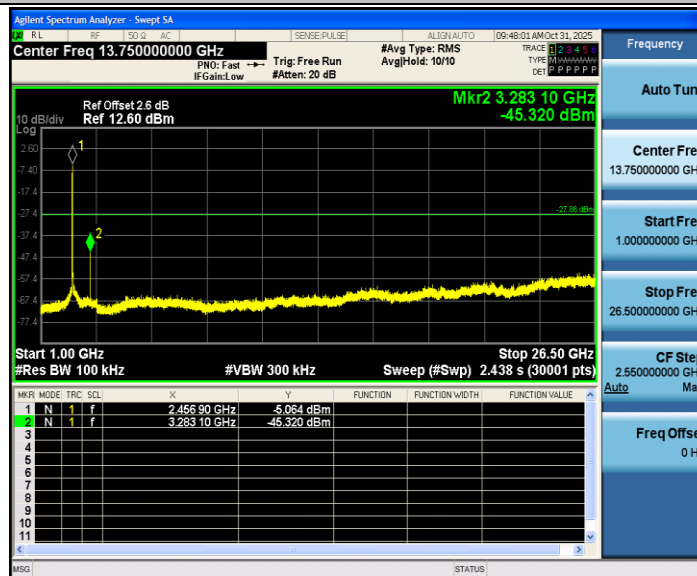
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11N20SISO	Ant1	2412	20.00	20.00	100.00
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00