

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BM2F-DV03

Company : Dongguan Alaike Electronics Co., LTD

EUT : SPORTS CAMERA

Model Number : DV03

Report No. : CTA25102301601

Reviewed By : Eric Wang

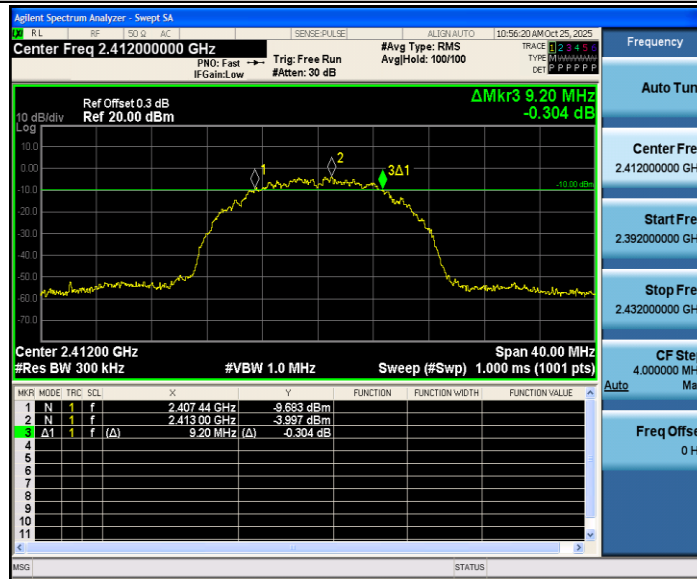
Appendix A: DTS Bandwidth

Test Result

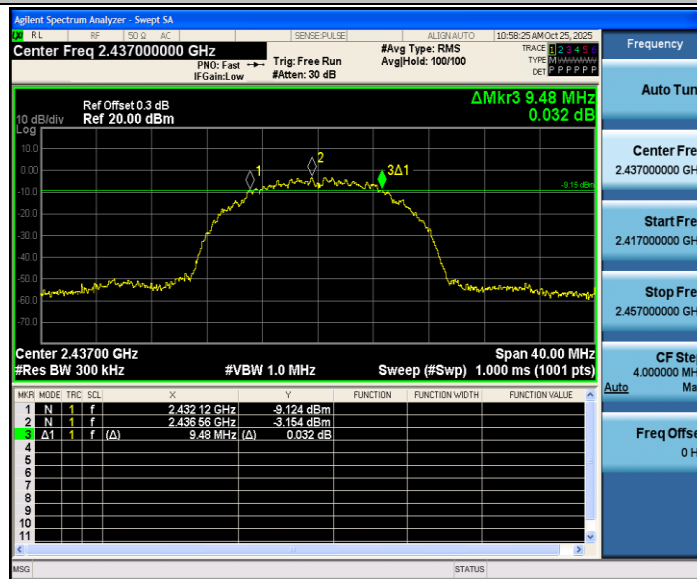
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.440	2416.640	0.5	PASS
		2437	9.480	2432.120	2441.600	0.5	PASS
		2462	8.840	2457.480	2466.320	0.5	PASS
11G	Ant1	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.360	2428.880	2445.240	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.200	2428.480	2445.680	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS

Test Graphs

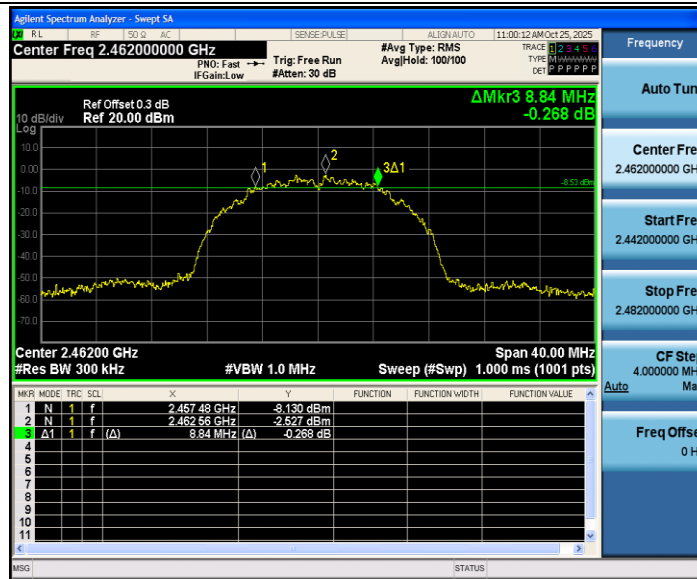
11B_Ant1_2412



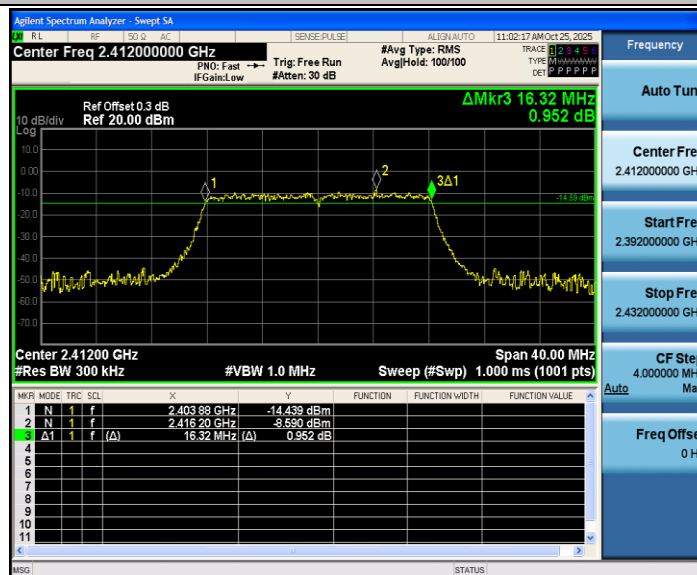
11B_Ant1_2437



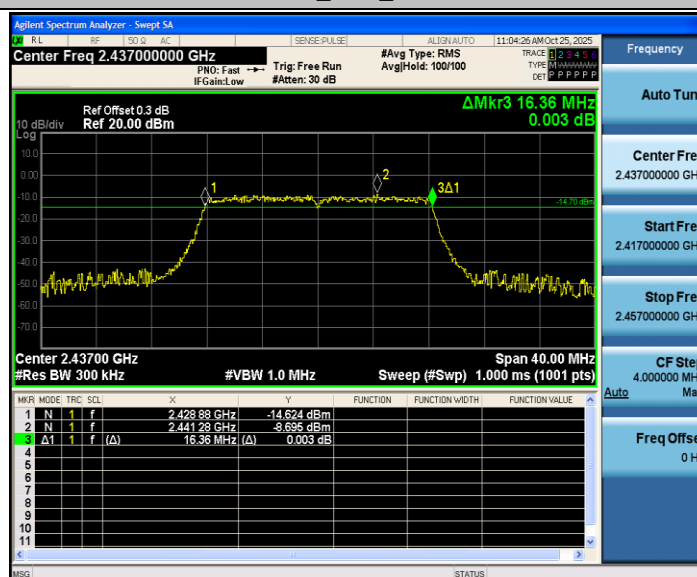
11B_Ant1_2462



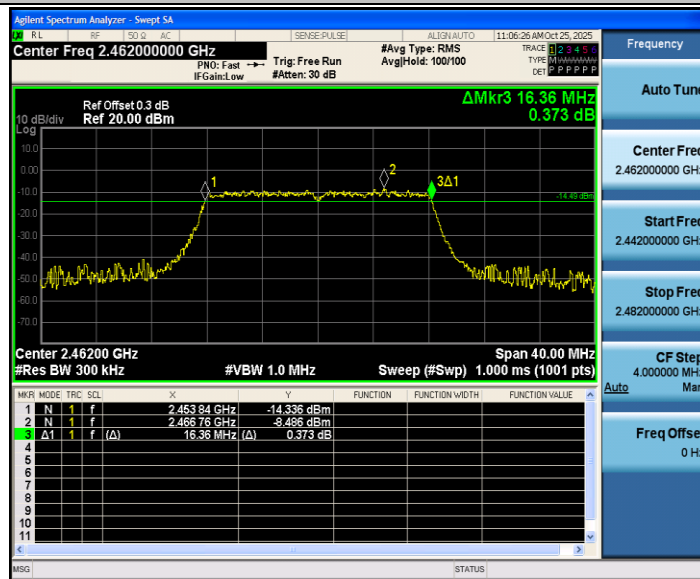
11G_Ant1_2412



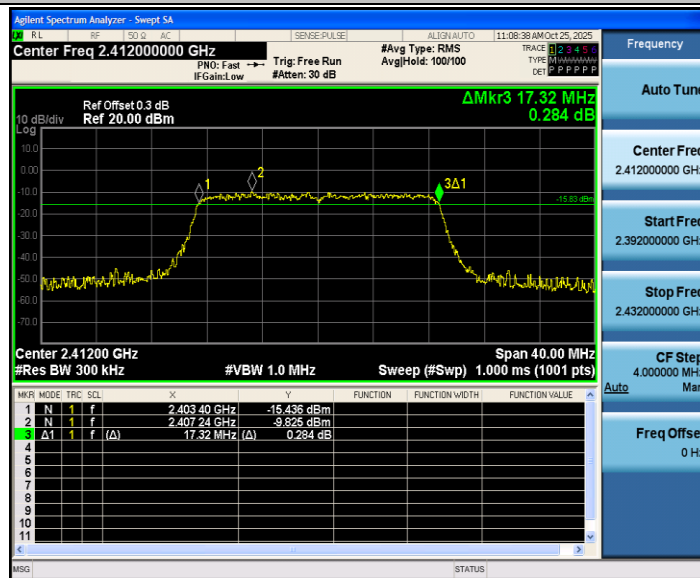
11G_Ant1_2437



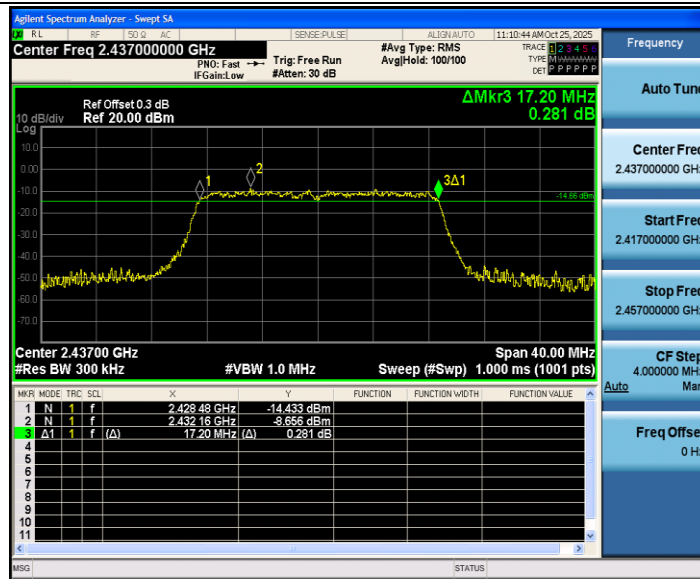
11G_Ant1_2462



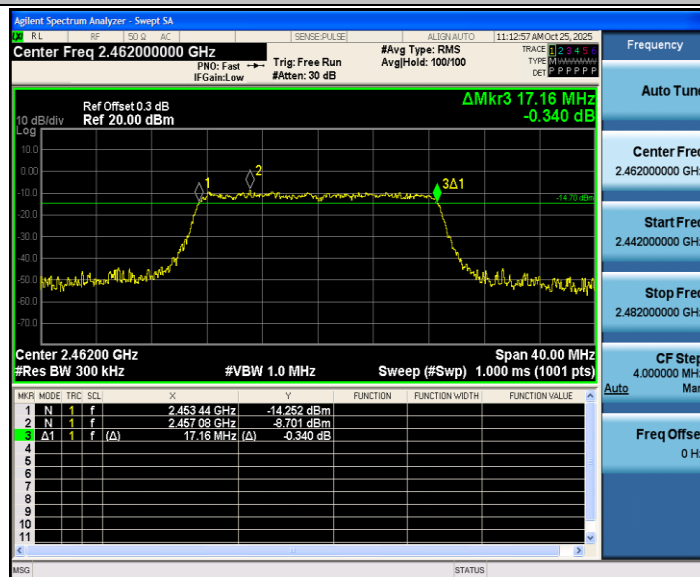
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



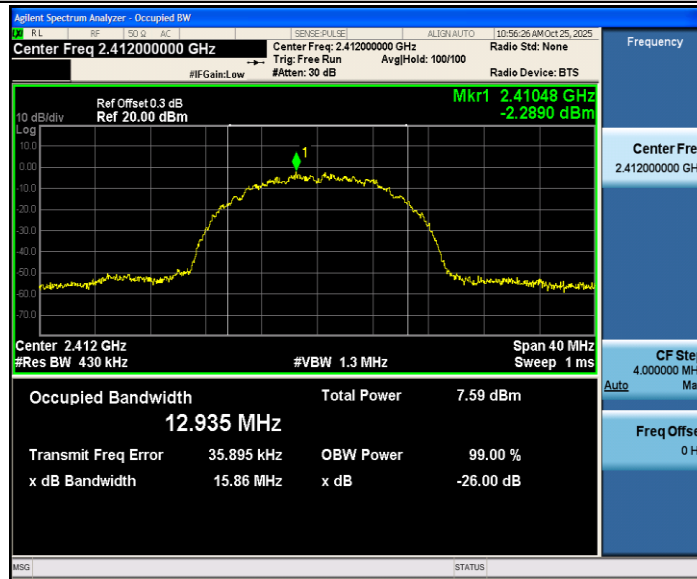
Appendix B: Occupied Channel Bandwidth

Test Result

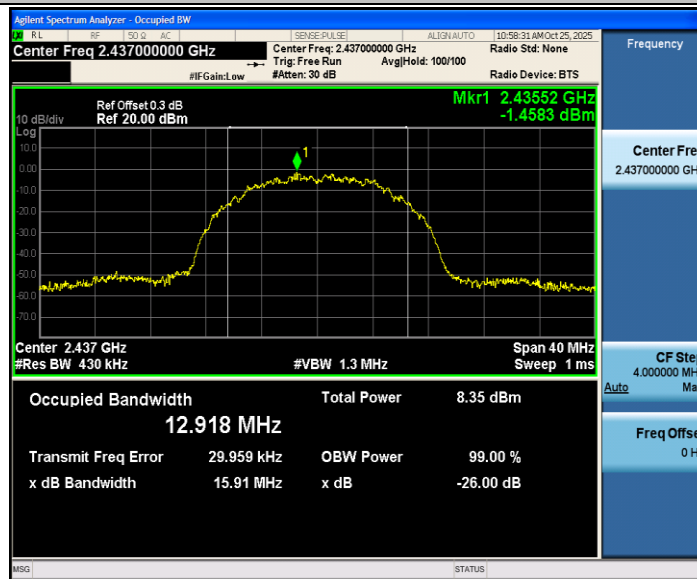
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.935	2405.5684	2418.5034	---	---
		2437	12.918	2430.5710	2443.4890	---	---
		2462	12.955	2455.5386	2468.4936	---	---
11G	Ant1	2412	16.538	2403.7706	2420.3086	---	---
		2437	16.638	2428.7002	2445.3382	---	---
		2462	16.604	2453.7026	2470.3066	---	---
11N20SISO	Ant1	2412	17.433	2403.3343	2420.7673	---	---
		2437	17.464	2428.3031	2445.7671	---	---
		2462	17.439	2453.3145	2470.7535	---	---

Test Graphs

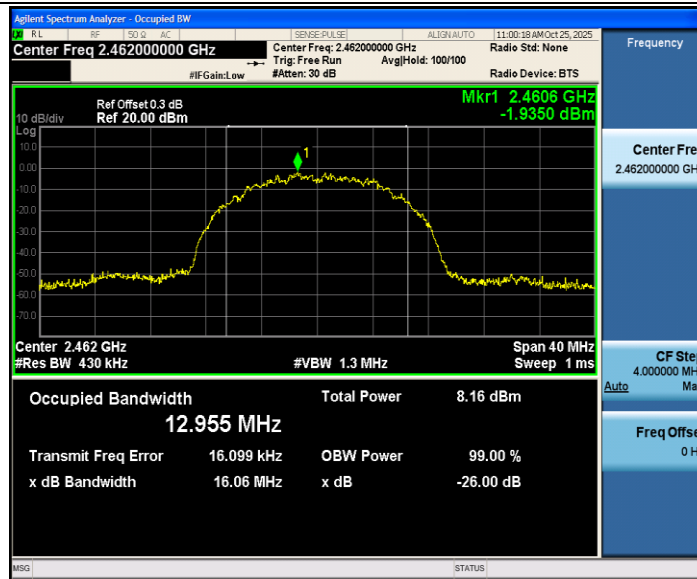
11B_Ant1_2412



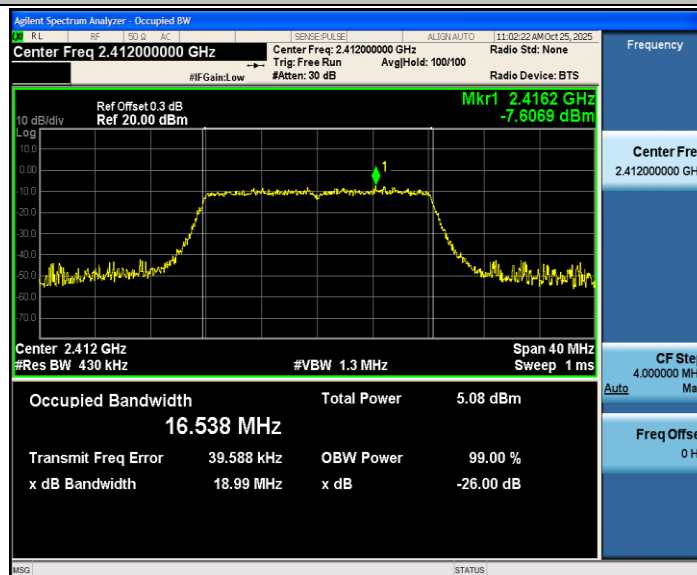
11B_Ant1_2437



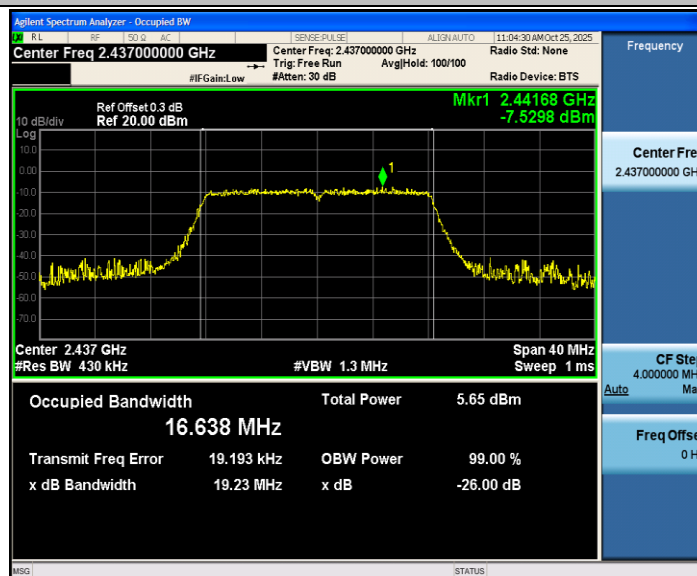
11B_Ant1_2462



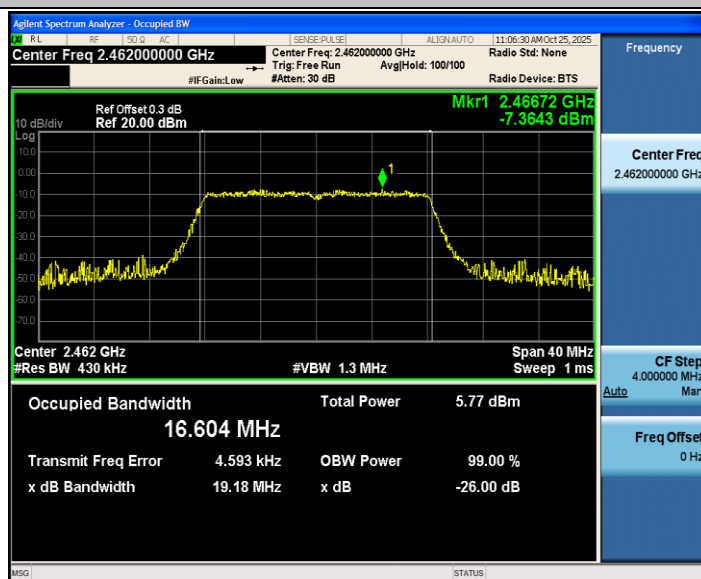
11G_Ant1_2412



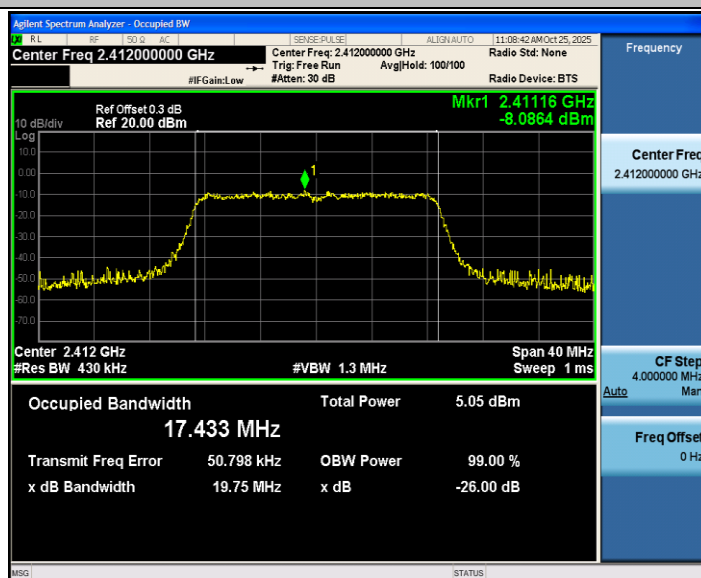
11G_Ant1_2437



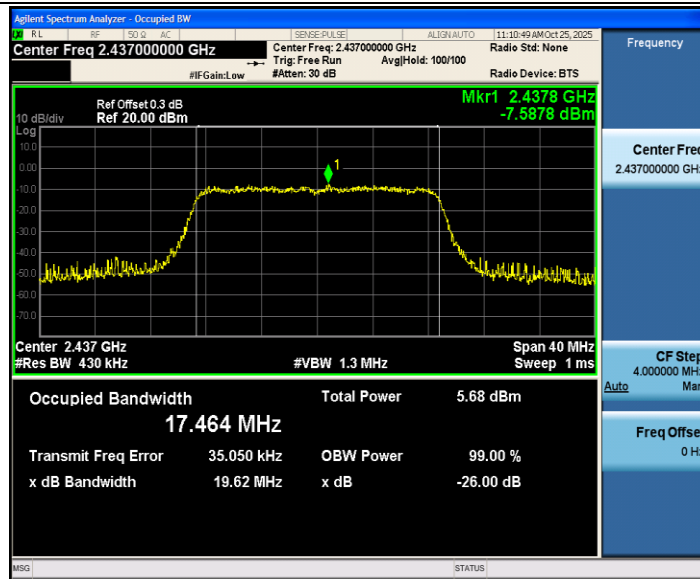
11G_Ant1_2462



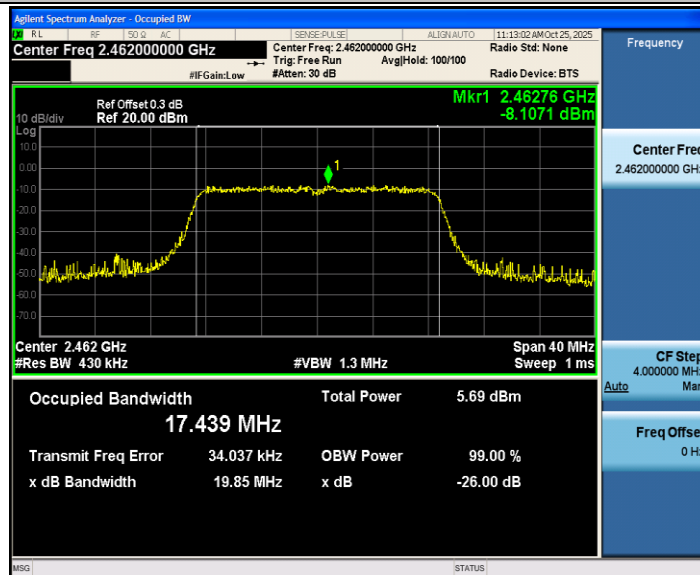
11N20SISO_Ant1_2412



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	7.21	≤30.00	PASS
		2437	7.91	≤30.00	PASS
		2462	7.69	≤30.00	PASS
11G	Ant1	2412	5.88	≤30.00	PASS
		2437	6.48	≤30.00	PASS
		2462	6.63	≤30.00	PASS
11N20SISO	Ant1	2412	6.26	≤30.00	PASS
		2437	6.74	≤30.00	PASS
		2462	6.89	≤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	-21.63	≤8.00	PASS
		2437	-21.75	≤8.00	PASS
		2462	-21.03	≤8.00	PASS
11G	Ant1	2412	-28.52	≤8.00	PASS
		2437	-28.17	≤8.00	PASS
		2462	-27.78	≤8.00	PASS
11N20SISO	Ant1	2412	-28.09	≤8.00	PASS
		2437	-27.65	≤8.00	PASS
		2462	-27.43	≤8.00	PASS

Test Graphs

11B_Ant1_2412



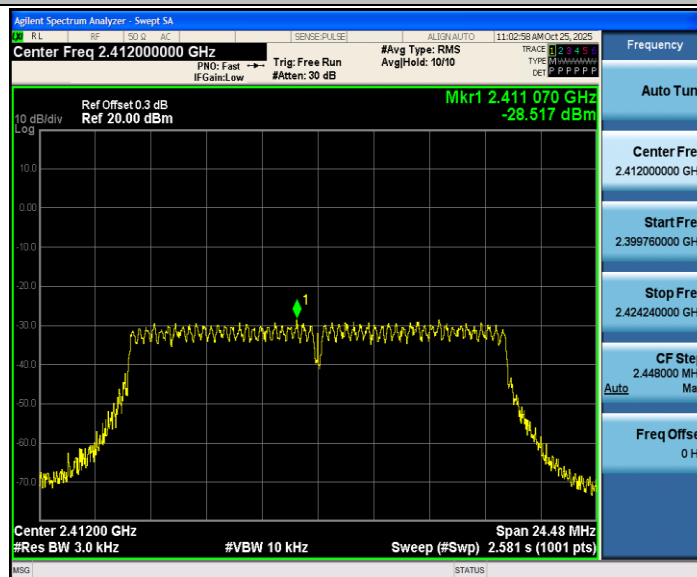
11B_Ant1_2437



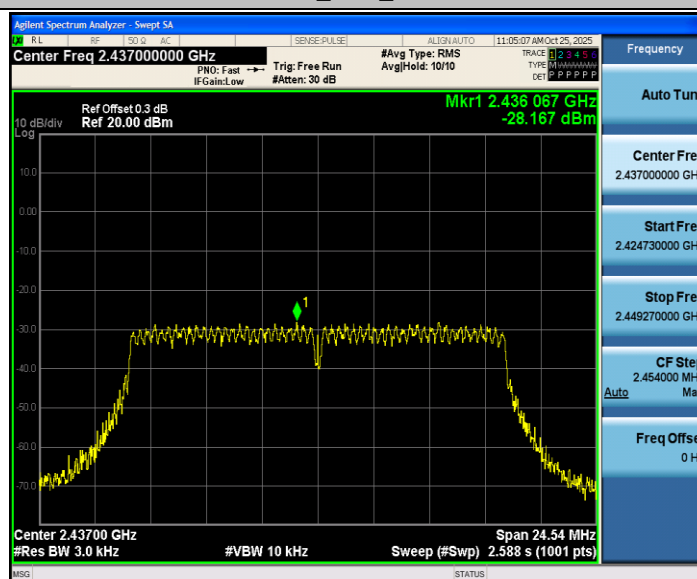
11B_Ant1_2462



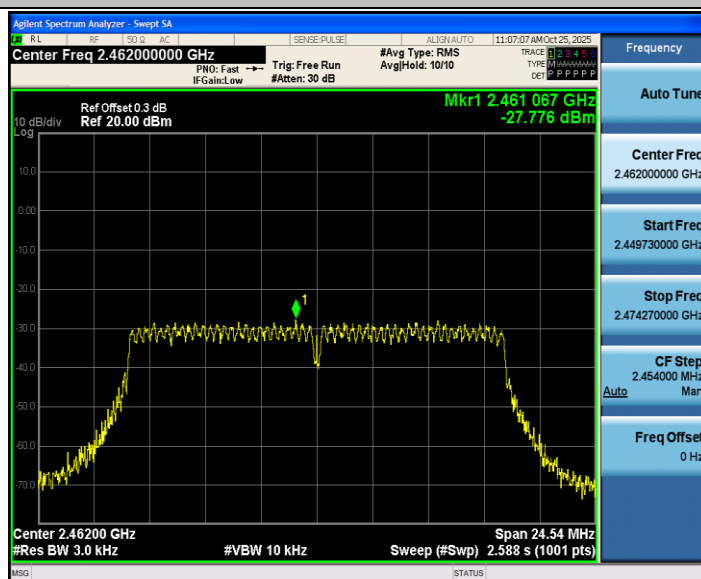
11G_Ant1_2412



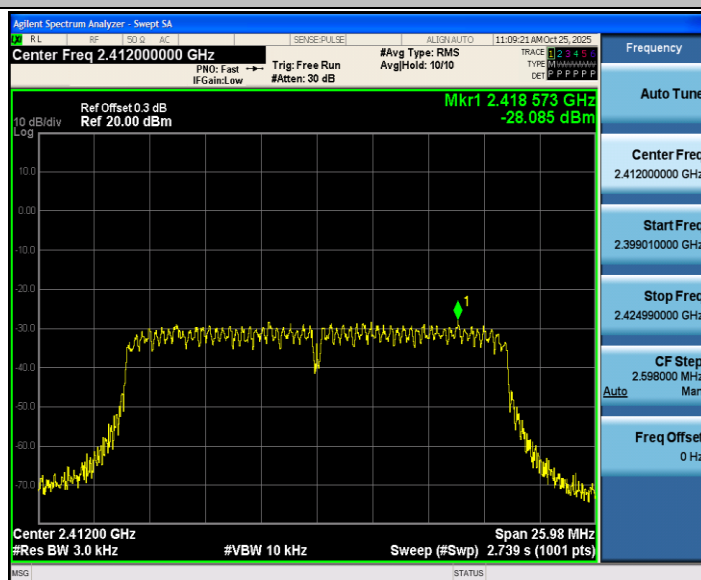
11G_Ant1_2437



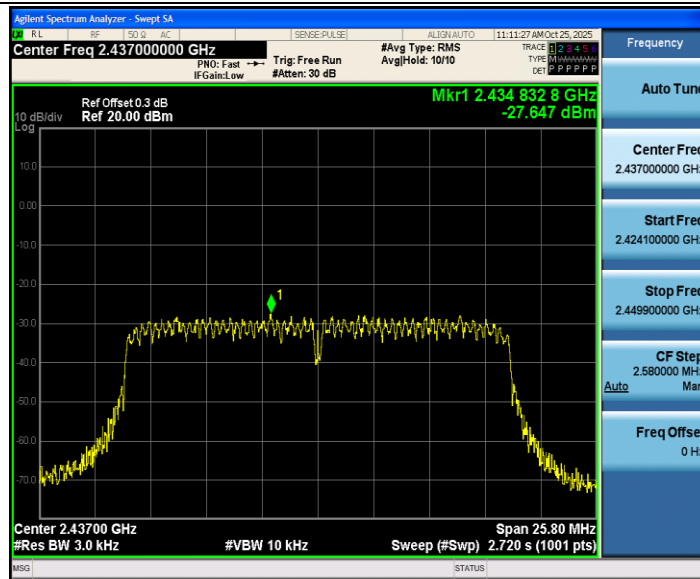
11G_Ant1_2462



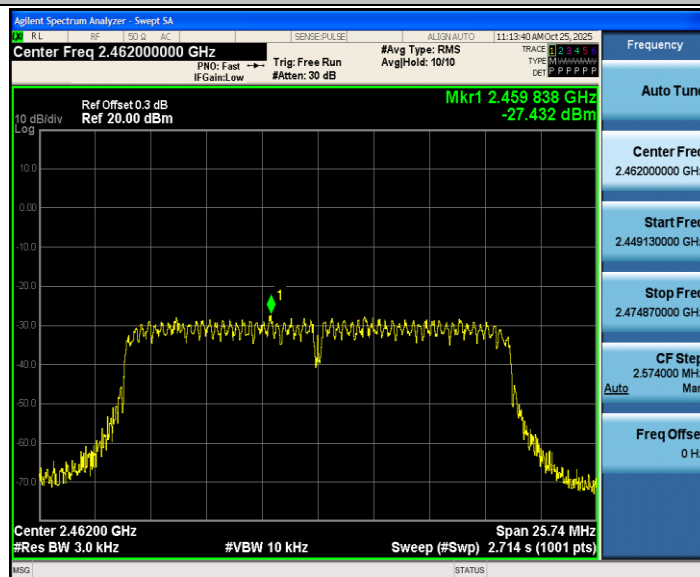
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



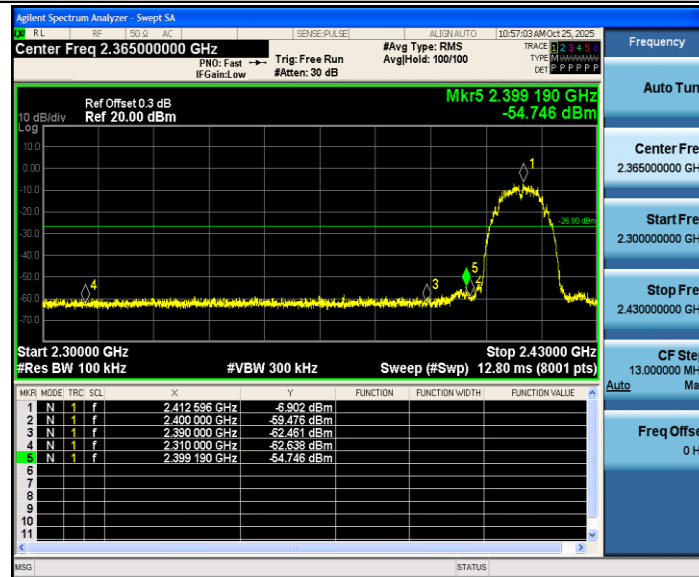
Appendix E: Band edge measurements

Test Result

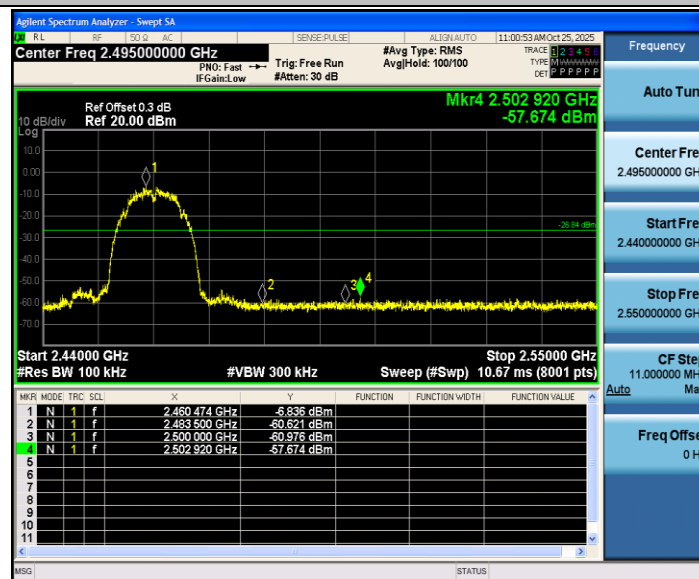
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.90	-54.75	≤ -26.9	PASS
		High	2462	-6.84	-57.67	≤ -26.84	PASS
11G	Ant1	Low	2412	-14.88	-51.03	≤ -34.88	PASS
		High	2462	-14.00	-55.89	≤ -34	PASS
11N20SISO	Ant1	Low	2412	-14.66	-52.4	≤ -34.66	PASS
		High	2462	-13.57	-56.83	≤ -33.57	PASS

Test Graphs

11B_Ant1_Low_2412



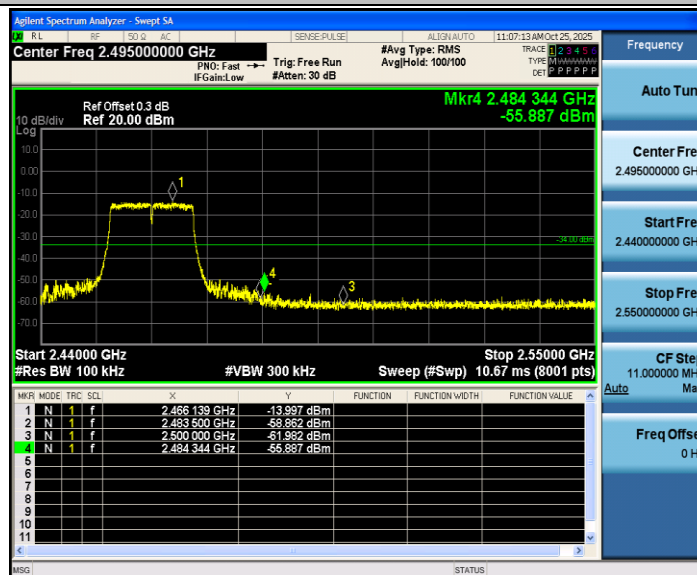
11B_Ant1_High_2462



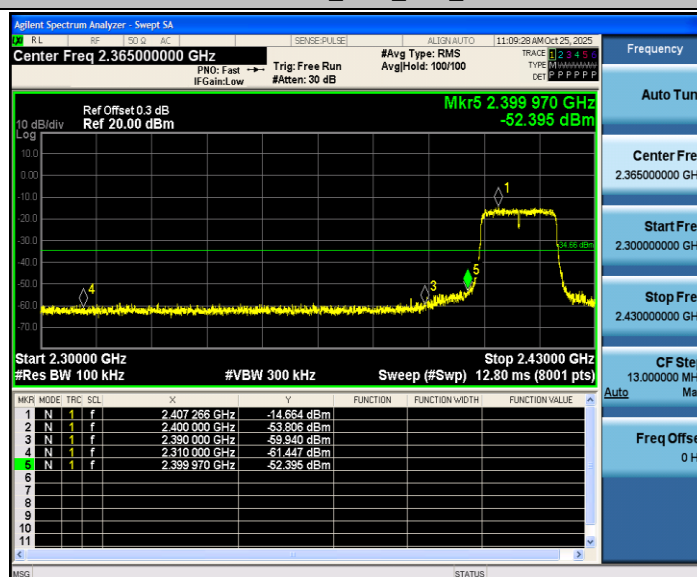
11G_Ant1_Low_2412



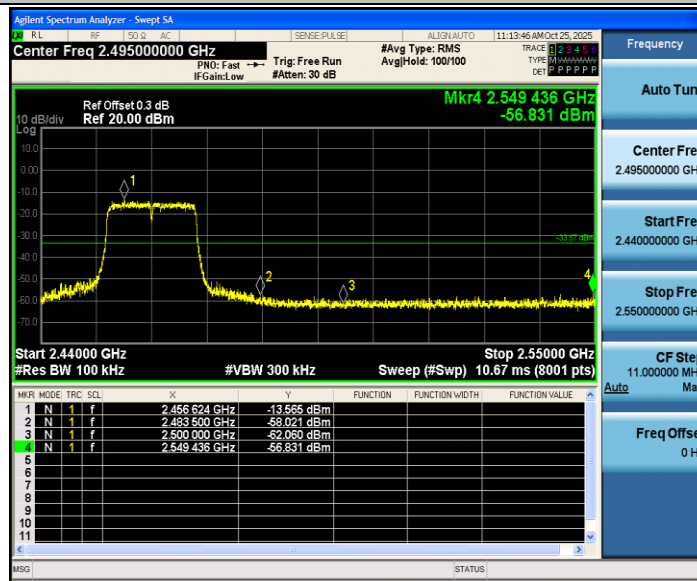
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

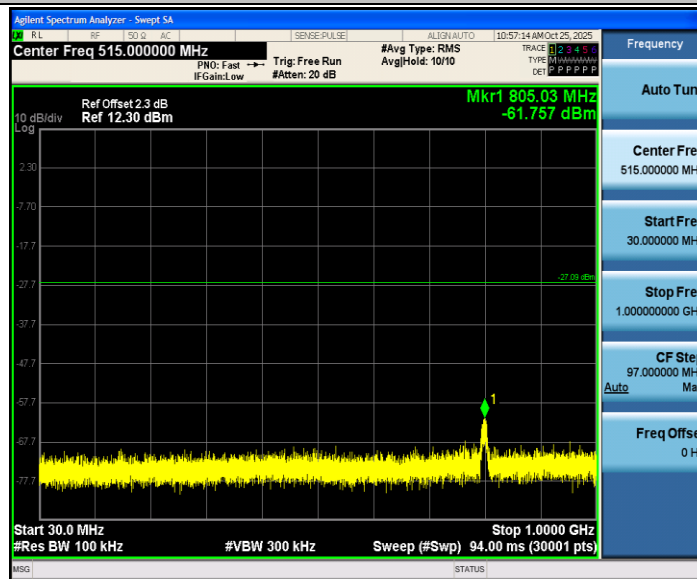
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.09	-7.09	---	PASS
			30~1000	-7.09	-61.76	≤-27.09	PASS
			1000~26500	-7.09	-45.48	≤-27.09	PASS
		2437	Reference	-5.99	-5.99	---	PASS
			30~1000	-5.99	-60.16	≤-25.99	PASS
			1000~26500	-5.99	-46.15	≤-25.99	PASS
		2462	Reference	-7.42	-7.42	---	PASS
			30~1000	-7.42	-61.57	≤-27.42	PASS
			1000~26500	-7.42	-46.44	≤-27.42	PASS
11G	Ant1	2412	Reference	-15.16	-15.16	---	PASS
			30~1000	-15.16	-64.08	≤-35.16	PASS
			1000~26500	-15.16	-45.37	≤-35.16	PASS
		2437	Reference	-14.67	-14.67	---	PASS
			30~1000	-14.67	-63.93	≤-34.67	PASS
			1000~26500	-14.67	-45.99	≤-34.67	PASS
		2462	Reference	-13.69	-13.69	---	PASS
			30~1000	-13.69	-64.11	≤-33.69	PASS
			1000~26500	-13.69	-46.49	≤-33.69	PASS
11N20SISO	Ant1	2412	Reference	-15.23	-15.23	---	PASS
			30~1000	-15.23	-65.44	≤-35.23	PASS
			1000~26500	-15.23	-45.27	≤-35.23	PASS
		2437	Reference	-14.73	-14.73	---	PASS
			30~1000	-14.73	-63.72	≤-34.73	PASS
			1000~26500	-14.73	-45.93	≤-34.73	PASS
		2462	Reference	-14.79	-14.79	---	PASS
			30~1000	-14.79	-64.42	≤-34.79	PASS
			1000~26500	-14.79	-46.07	≤-34.79	PASS

Test Graphs

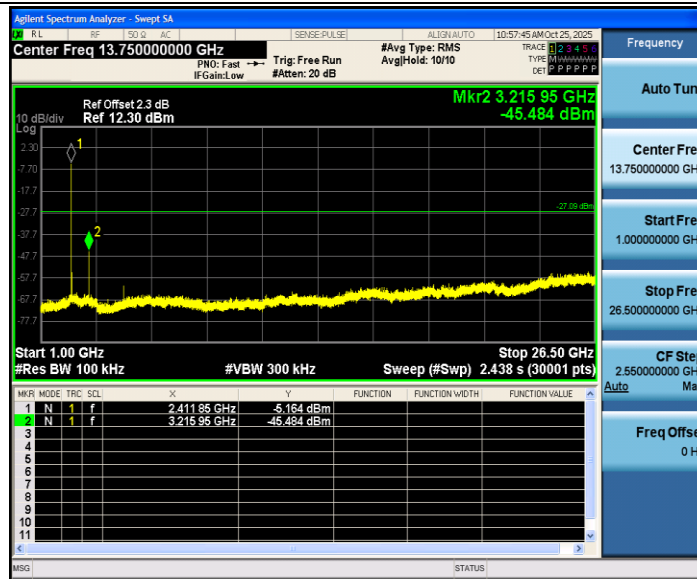
11B_Ant1_2412_0~Reference



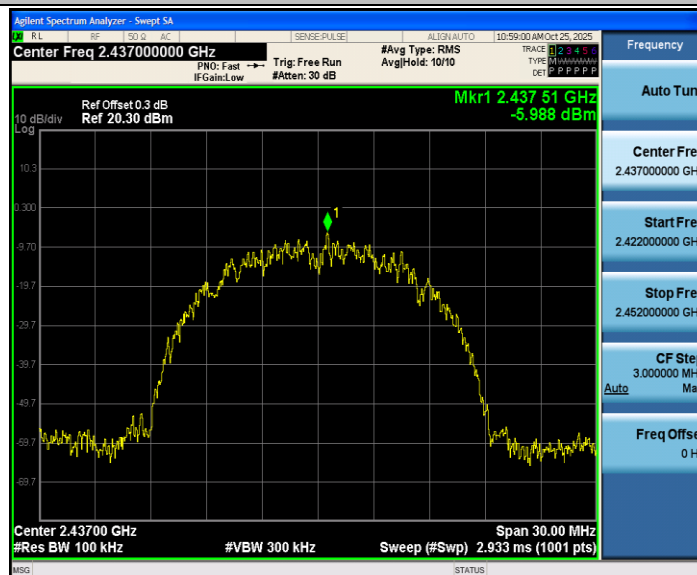
11B_Ant1_2412_30~1000



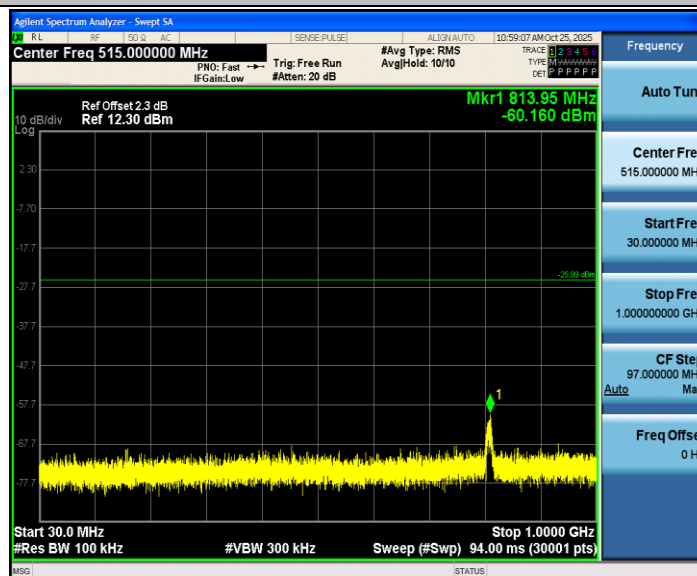
11B_Ant1_2412_1000~26500



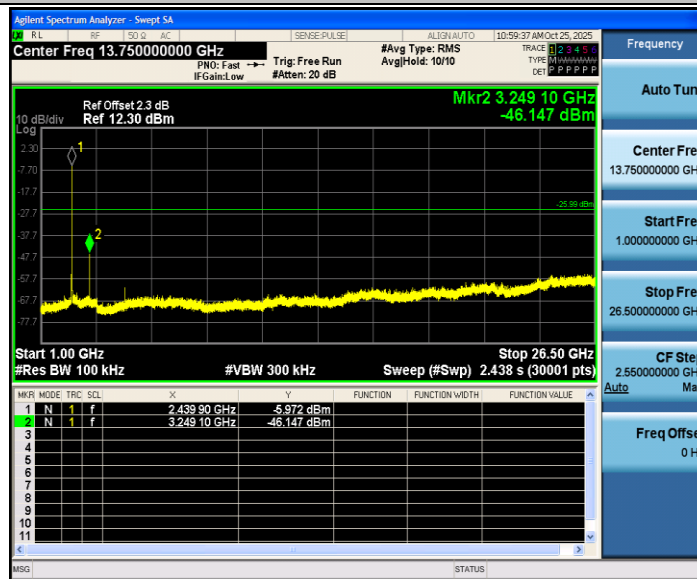
11B_Ant1_2437_0~Reference



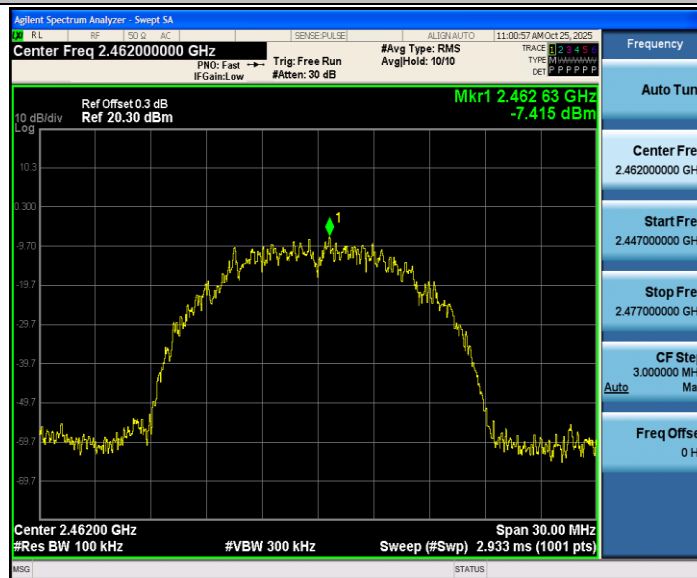
11B_Ant1_2437_30~1000



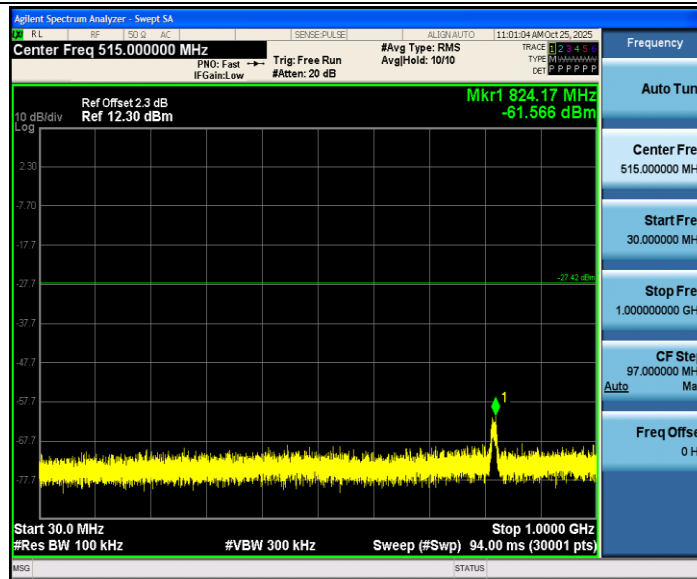
11B_Ant1_2437_1000~26500



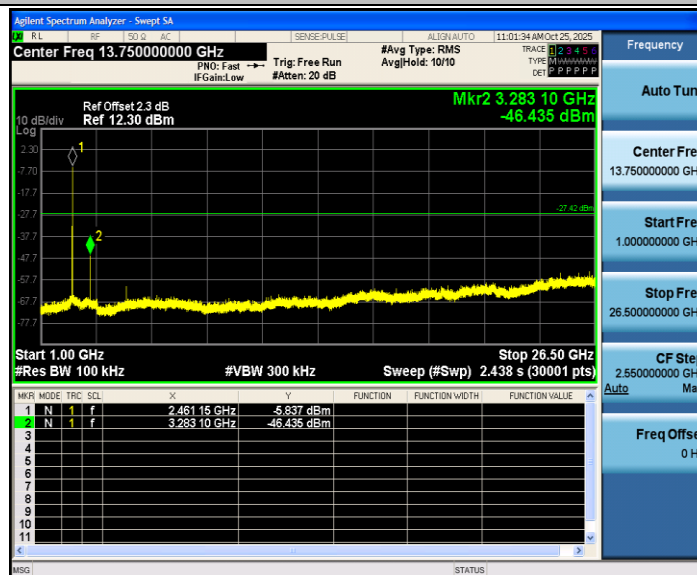
11B_Ant1_2462_0~Reference



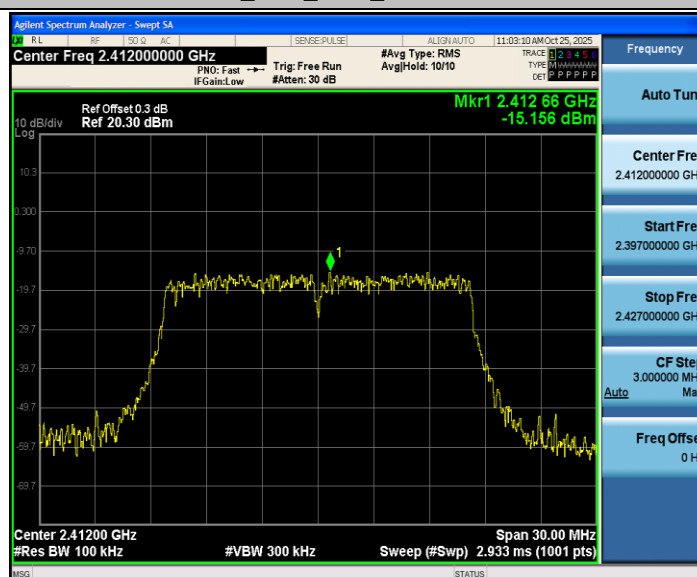
11B_Ant1_2462_30~1000



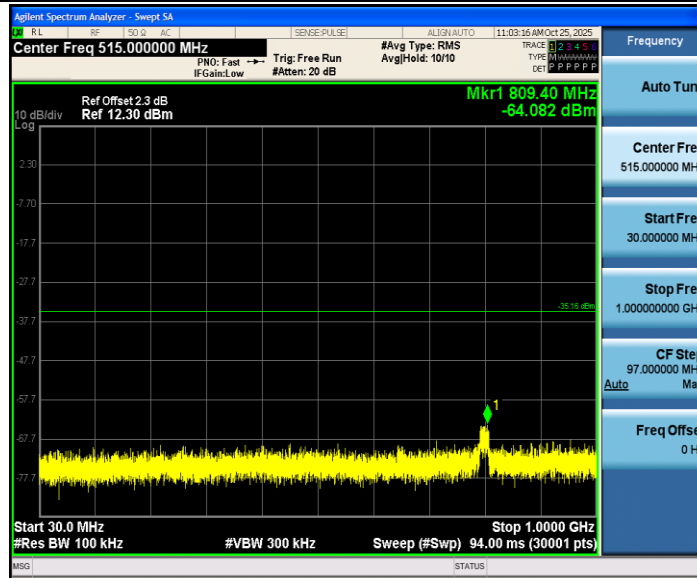
11B_Ant1_2462_1000~26500



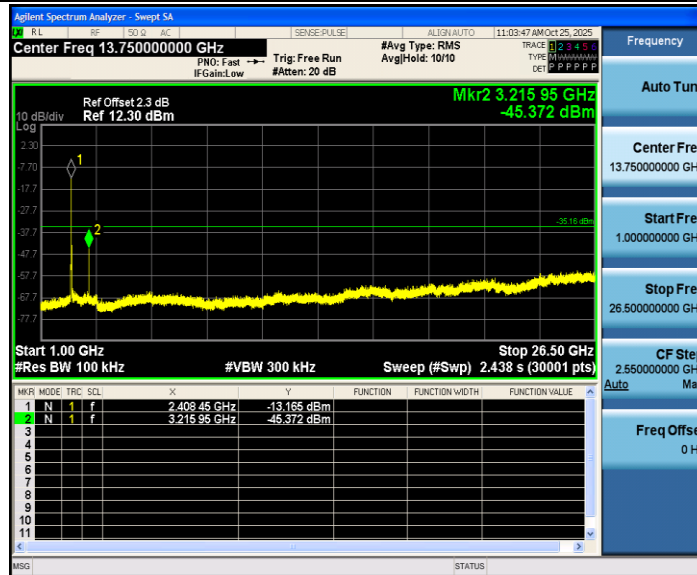
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



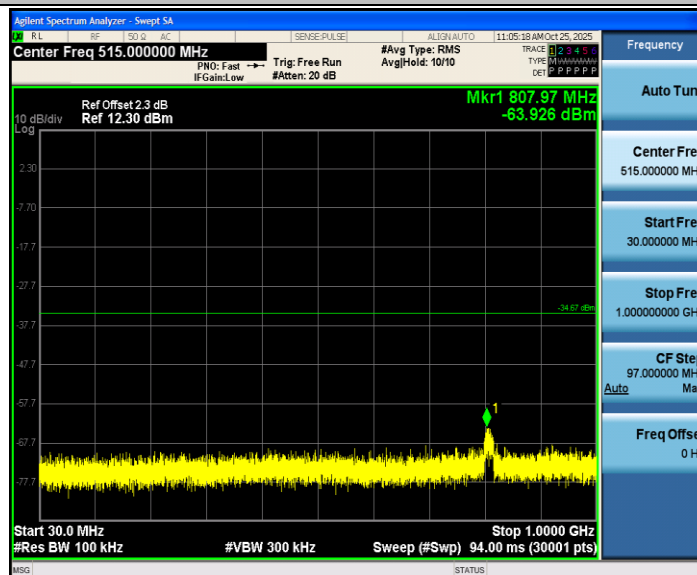
11G_Ant1_2412_1000~26500



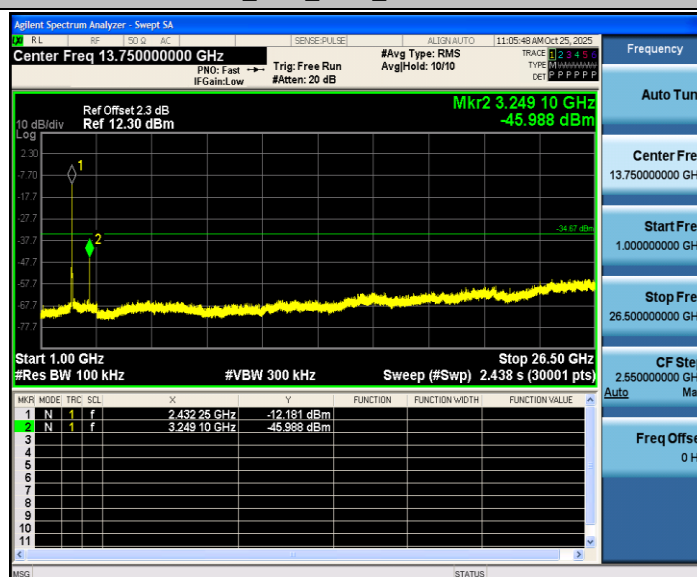
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



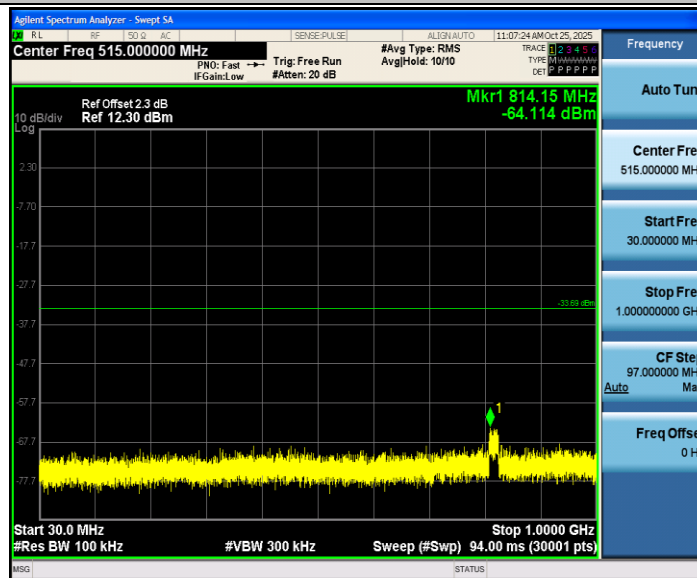
11G_Ant1_2437_1000~26500



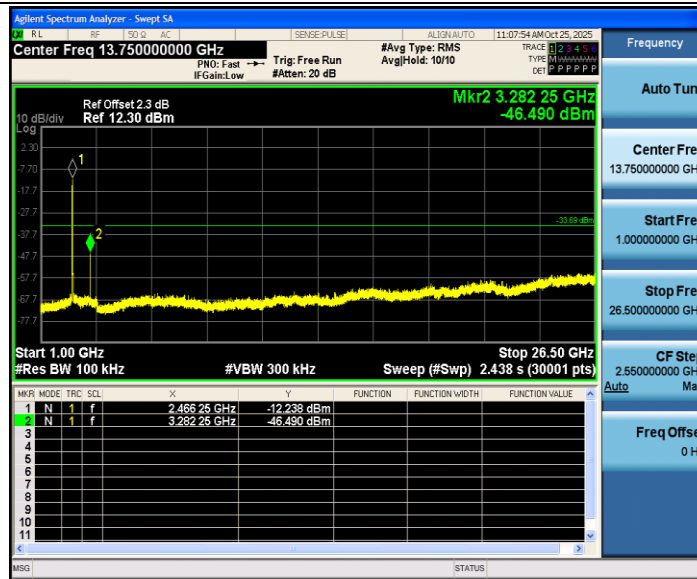
11G_Ant1_2462_0~Reference



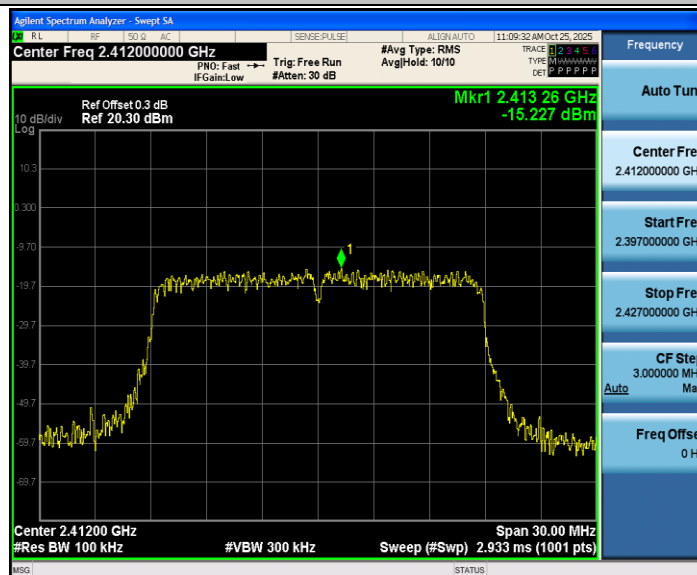
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

