

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BYDZ-TK-BWC-W3

Company : Shenzhen Dachenwei Technology Group Co., Ltd.

EUT : Body camera

Model Number : TK-BWC-W3

Report No. : CTA26082801301

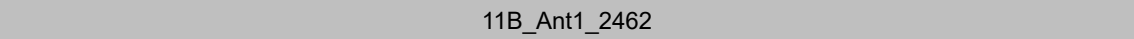
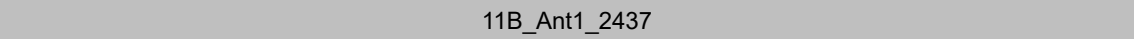
Reviewed By : Eric Wang

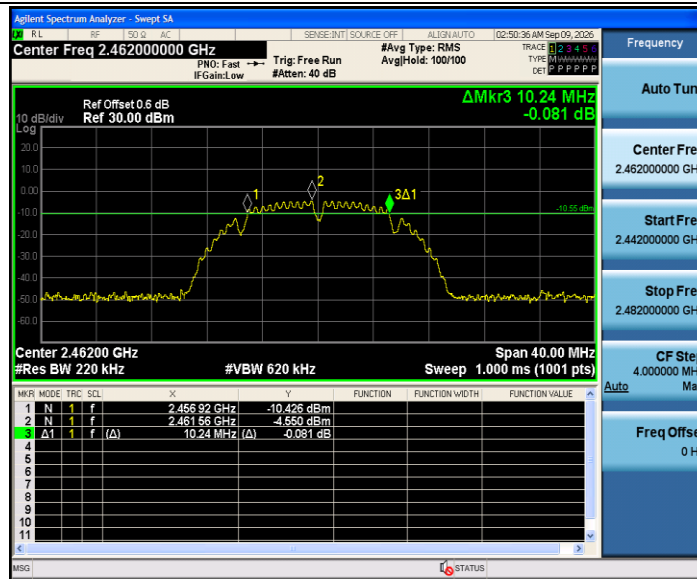
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.000	2404.040	2420.040	0.5	PASS
		2437	15.920	2429.040	2444.960	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.440	2420.800	0.5	PASS
		2437	17.240	2428.400	2445.640	0.5	PASS
		2462	17.320	2453.360	2470.680	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.560	2440.000	0.5	PASS
		2437	34.560	2420.280	2454.840	0.5	PASS
		2452	35.920	2434.160	2470.080	0.5	PASS

11B_Ant1_2412





11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



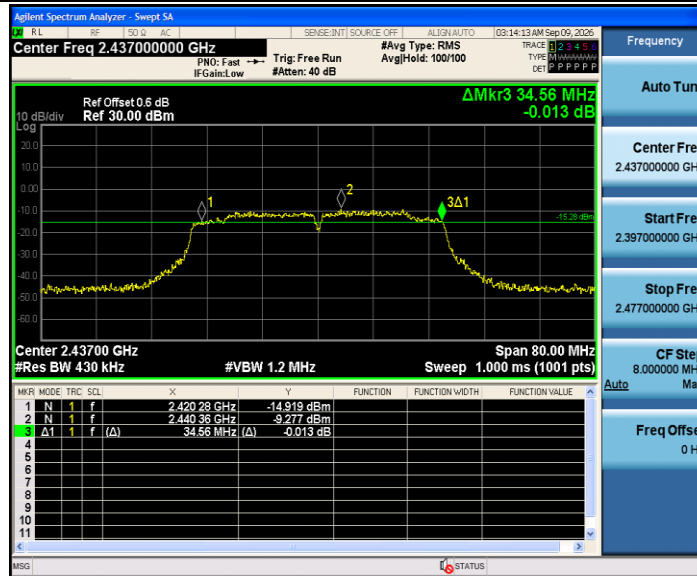
11N20SISO_Ant1_2462



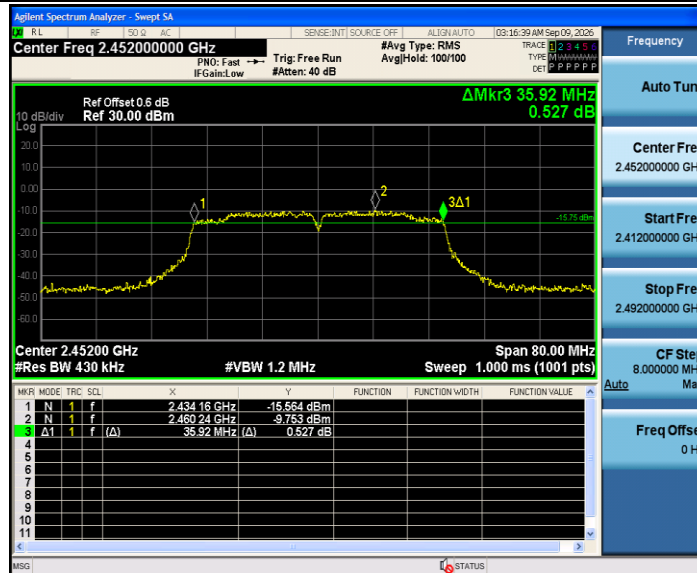
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



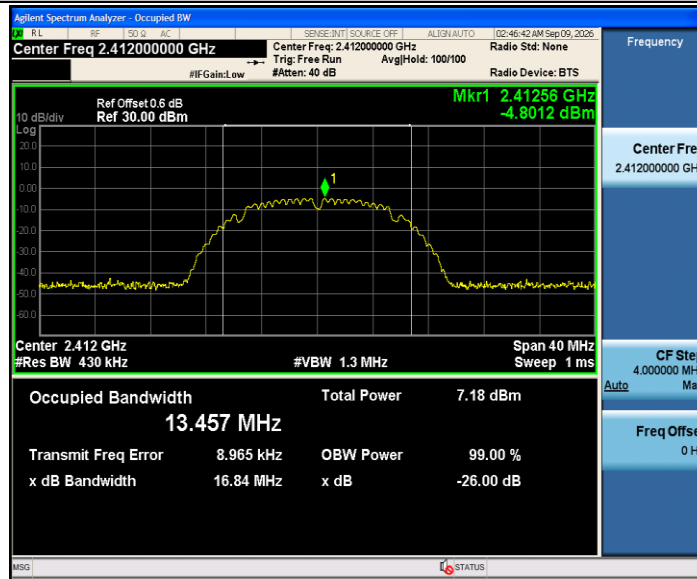
Appendix B: Occupied Channel Bandwidth

Test Result

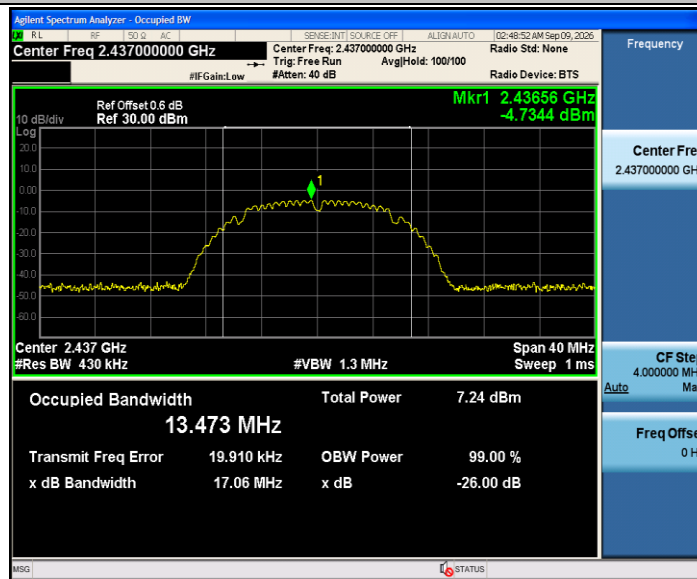
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.457	2405.2805	2418.7375	---	---
		2437	13.473	2430.2834	2443.7564	---	---
		2462	13.462	2455.3020	2468.7640	---	---
11G	Ant1	2412	16.898	2403.5508	2420.4488	---	---
		2437	16.923	2428.5346	2445.4576	---	---
		2462	16.876	2453.5855	2470.4615	---	---
11N20SISO	Ant1	2412	17.981	2403.0297	2421.0107	---	---
		2437	17.859	2428.1041	2445.9631	---	---
		2462	17.931	2453.0932	2471.0242	---	---
11N40SISO	Ant1	2422	36.140	2404.0505	2440.1905	---	---
		2437	36.162	2419.0341	2455.1961	---	---
		2452	36.084	2434.1030	2470.1870	---	---

Test Graphs

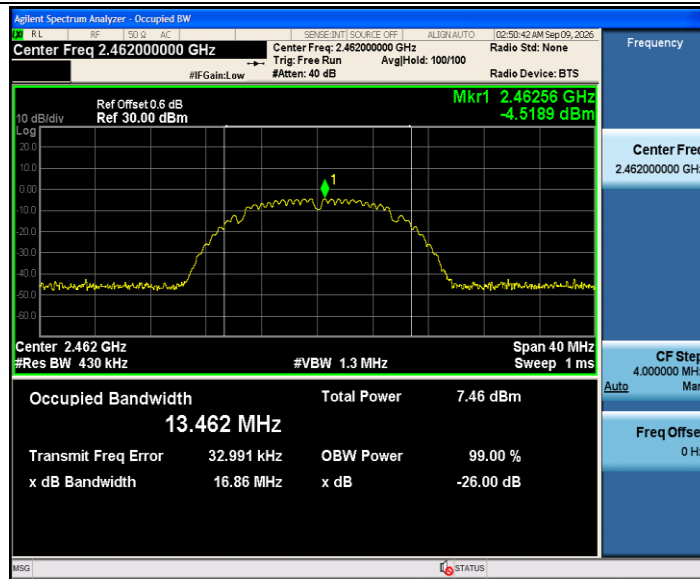
11B_Ant1_2412



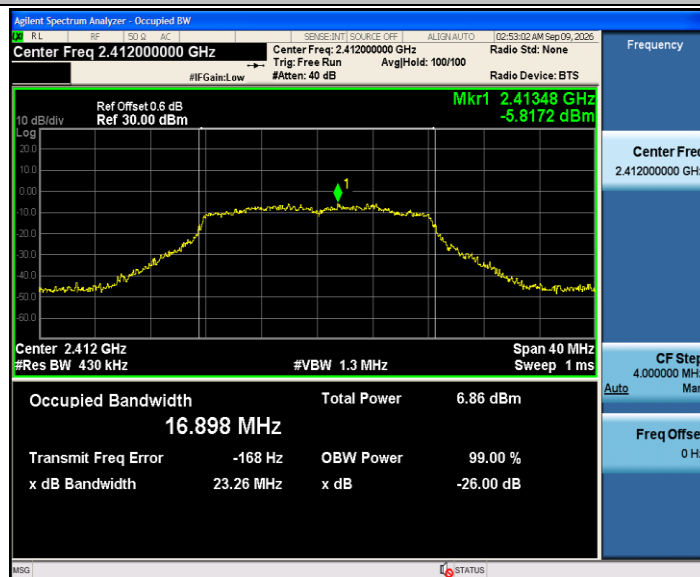
11B_Ant1_2437



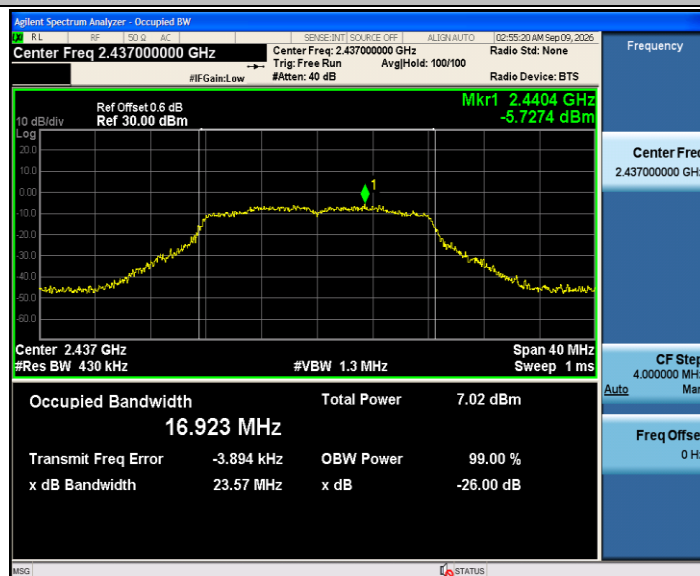
11B_Ant1_2462



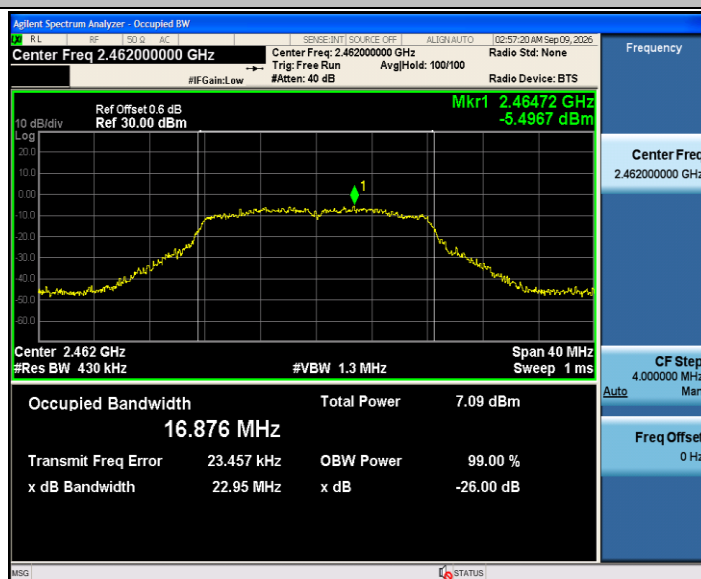
11G_Ant1_2412



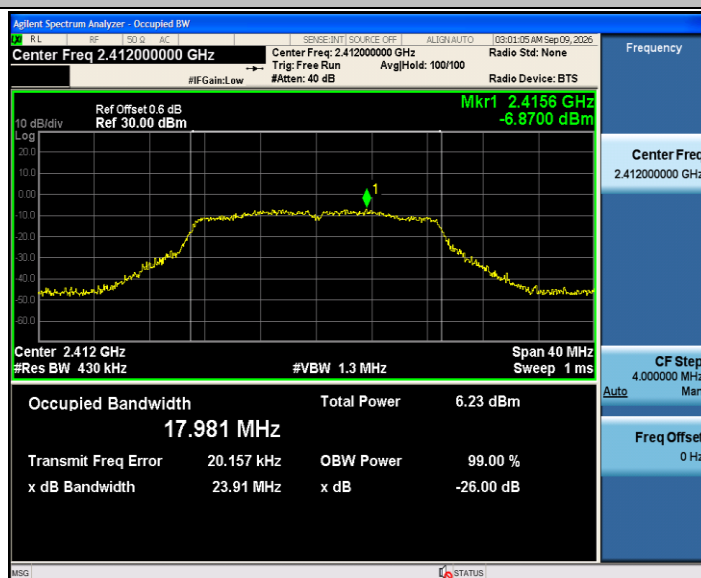
11G_Ant1_2437



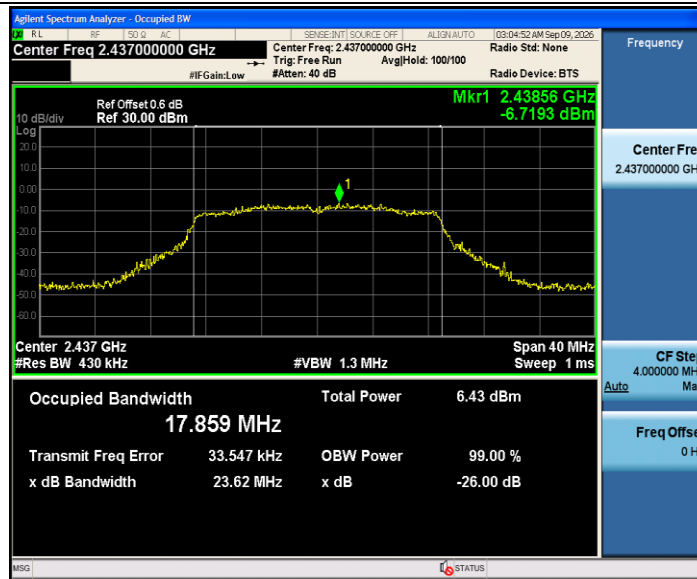
11G_Ant1_2462



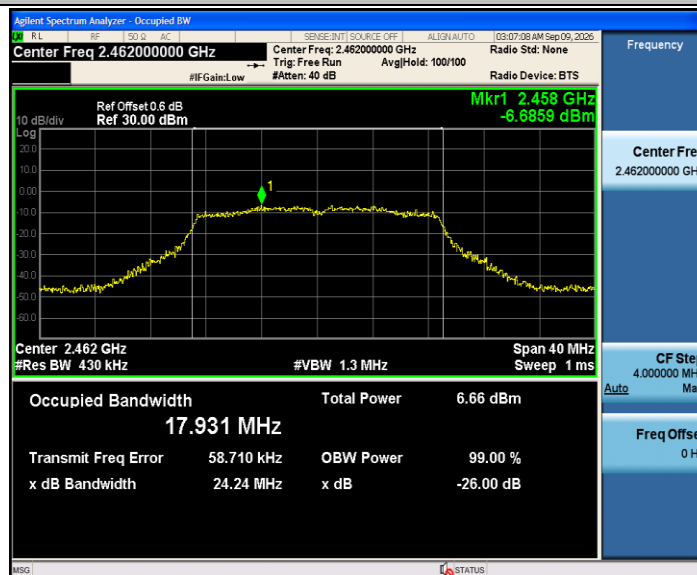
11N20SISO_Ant1_2412



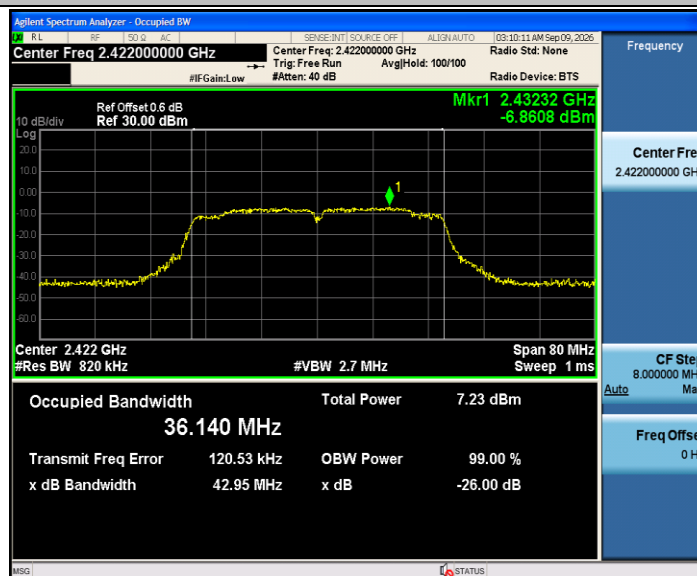
11N20SISO_Ant1_2437



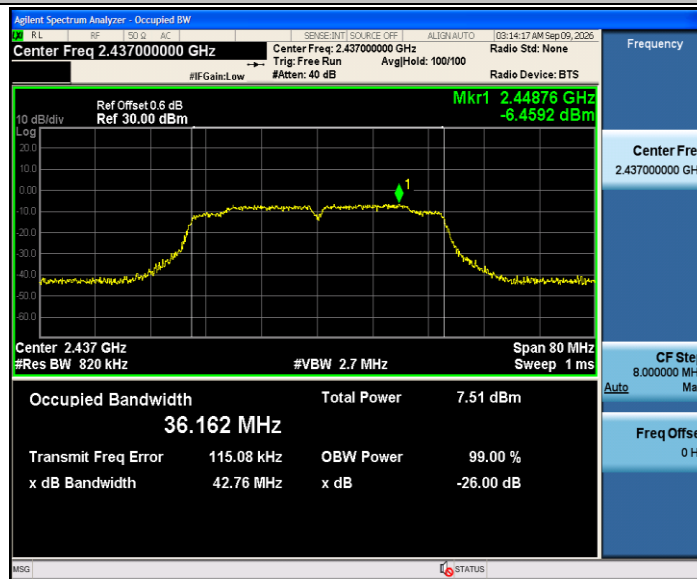
11N20SISO_Ant1_2462



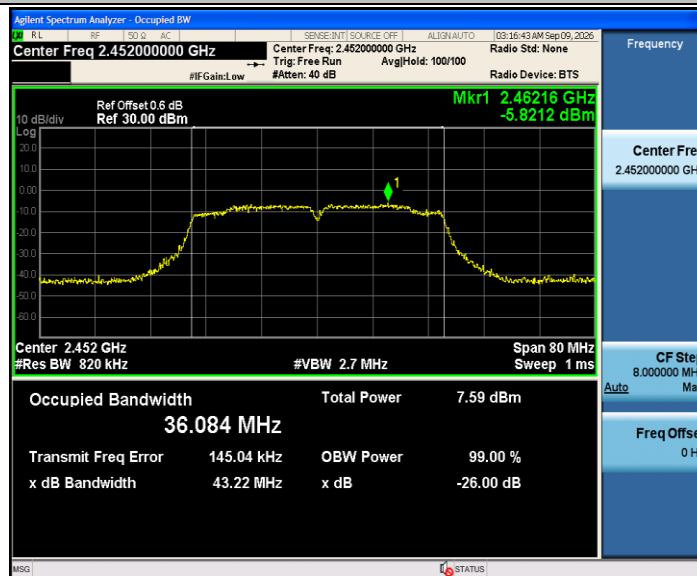
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.82	≤30.00	PASS
		2437	6.90	≤30.00	PASS
		2462	7.12	≤30.00	PASS
11G	Ant1	2412	7.83	≤30.00	PASS
		2437	7.90	≤30.00	PASS
		2462	8.05	≤30.00	PASS
11N20SISO	Ant1	2412	7.22	≤30.00	PASS
		2437	7.33	≤30.00	PASS
		2462	7.64	≤30.00	PASS
11N40SISO	Ant1	2422	7.52	≤30.00	PASS
		2437	7.84	≤30.00	PASS
		2452	7.78	≤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	-18.99	≤8.00	PASS
		2437	-19.16	≤8.00	PASS
		2462	-18.94	≤8.00	PASS
11G	Ant1	2412	-23.93	≤8.00	PASS
		2437	-22.78	≤8.00	PASS
		2462	-23.57	≤8.00	PASS
11N20SISO	Ant1	2412	-24.99	≤8.00	PASS
		2437	-24.04	≤8.00	PASS
		2462	-24.03	≤8.00	PASS
11N40SISO	Ant1	2422	-26.65	≤8.00	PASS
		2437	-27.24	≤8.00	PASS
		2452	-26.63	≤8.00	PASS

Test Graphs

11B_Ant1_2412



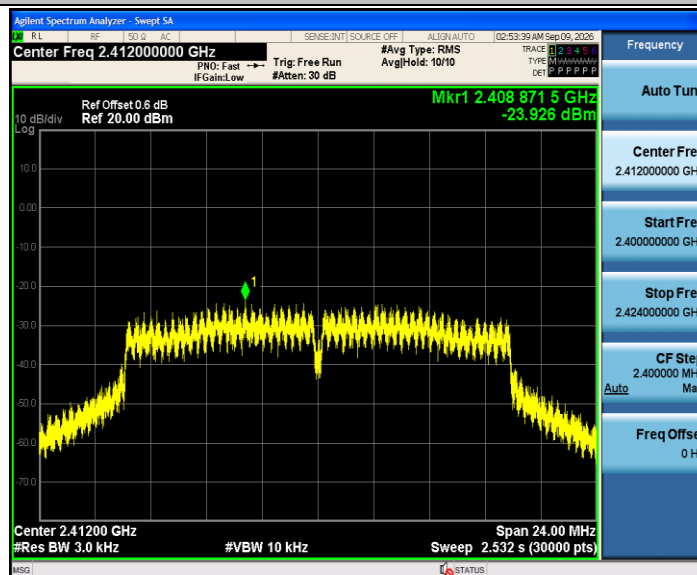
11B_Ant1_2437



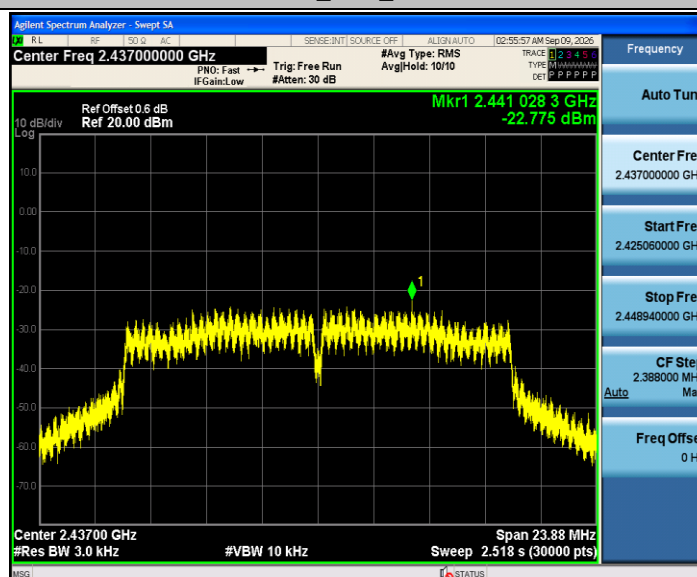
11B_Ant1_2462



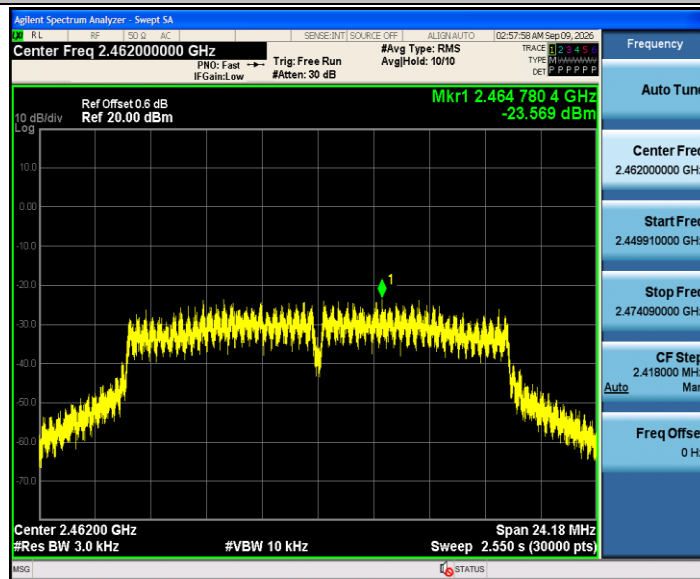
11G_Ant1_2412



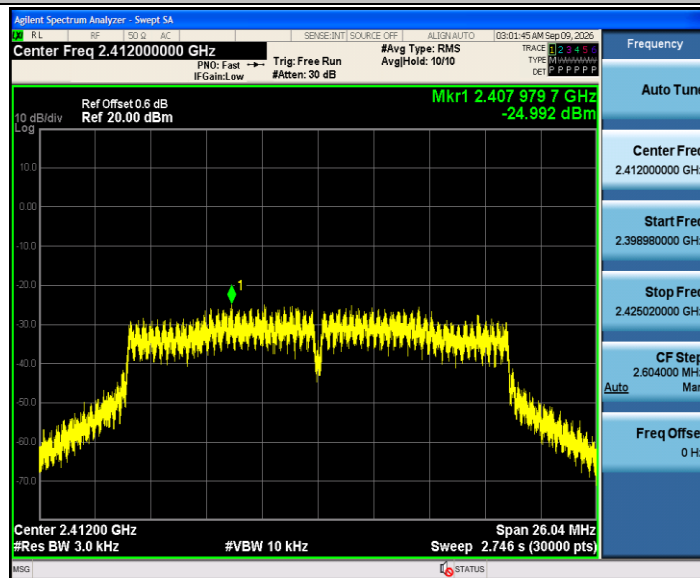
11G_Ant1_2437



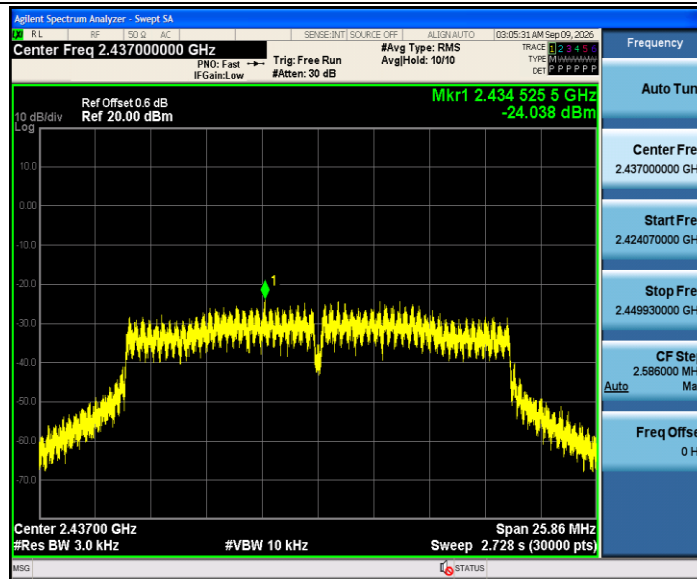
11G_Ant1_2462



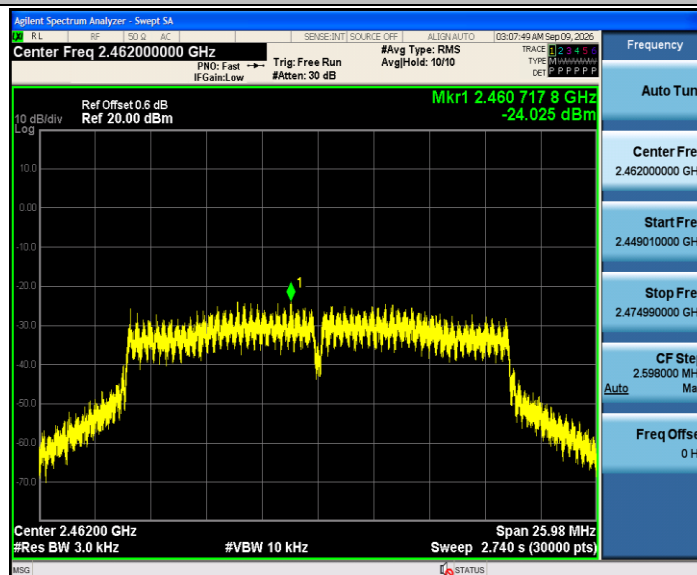
11N20SISO_Ant1_2412



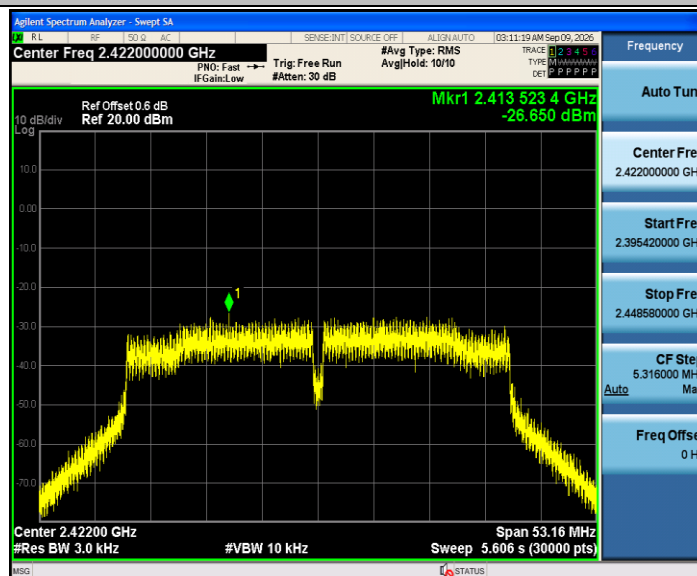
11N20SISO_Ant1_2437



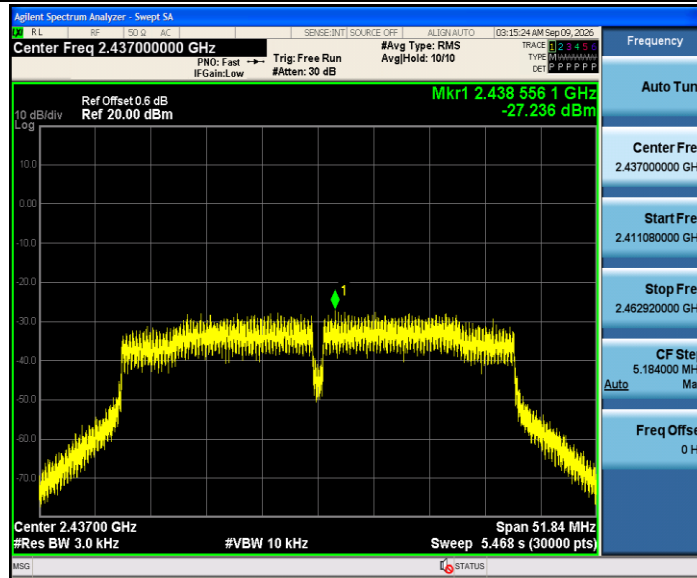
11N20SISO_Ant1_2462



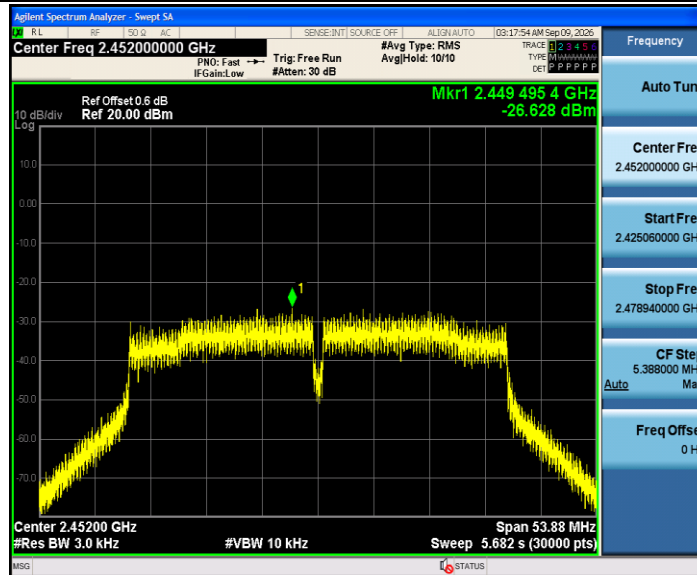
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



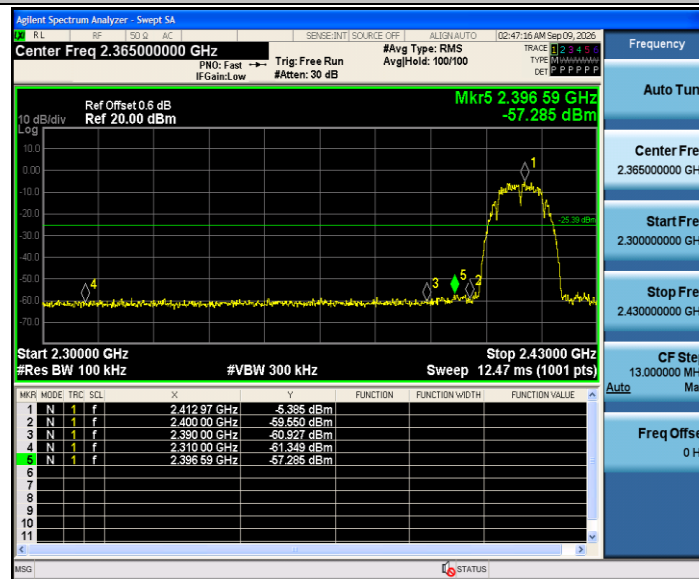
Appendix E: Band edge measurements

Test Result

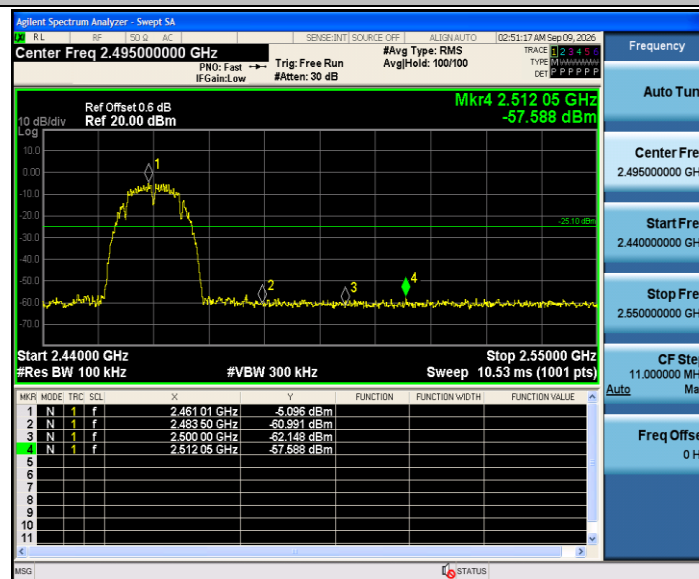
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.39	-57.29	≤-25.39	PASS
		High	2462	-5.10	-57.59	≤-25.1	PASS
11G	Ant1	Low	2412	-10.18	-40.12	≤-30.18	PASS
		High	2462	-8.51	-57.6	≤-28.51	PASS
11N20SISO	Ant1	Low	2412	-10.18	-38.92	≤-30.18	PASS
		High	2462	-9.46	-57.57	≤-29.46	PASS
11N40SISO	Ant1	Low	2422	-14.72	-44.85	≤-34.72	PASS
		High	2452	-13.41	-57.78	≤-33.41	PASS

Test Graphs

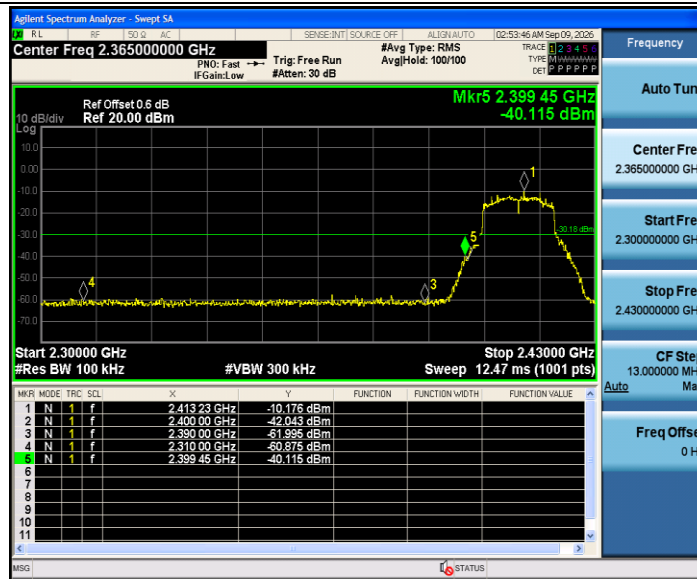
11B_Ant1_Low_2412



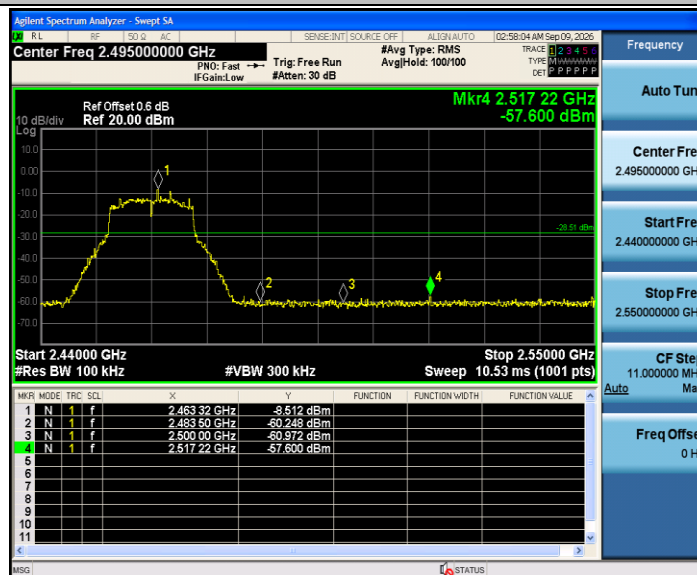
11B_Ant1_High_2462



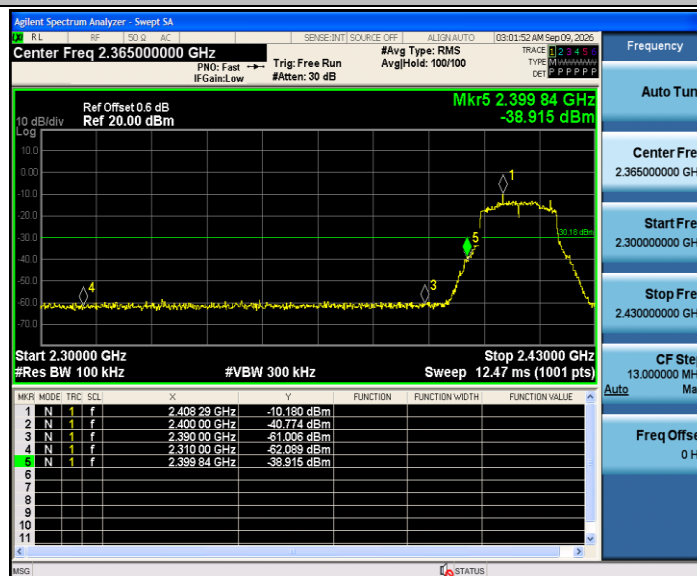
11G_Ant1_Low_2412



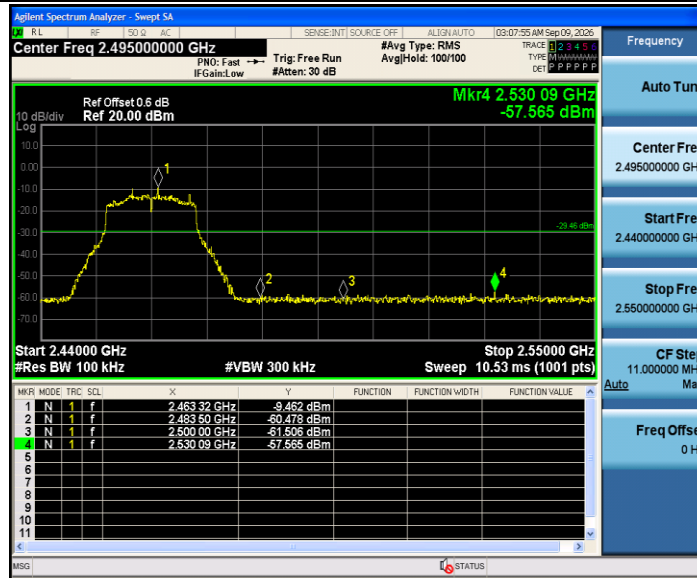
11G_Ant1_High_2462



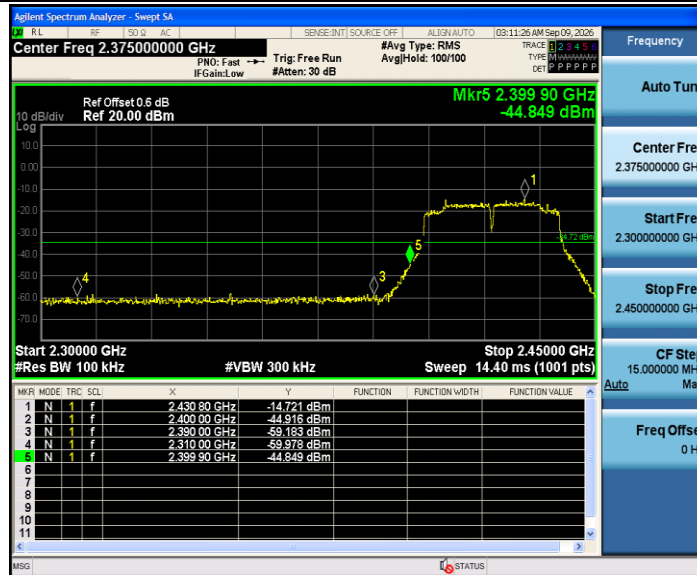
11N20SISO_Ant1_Low_2412



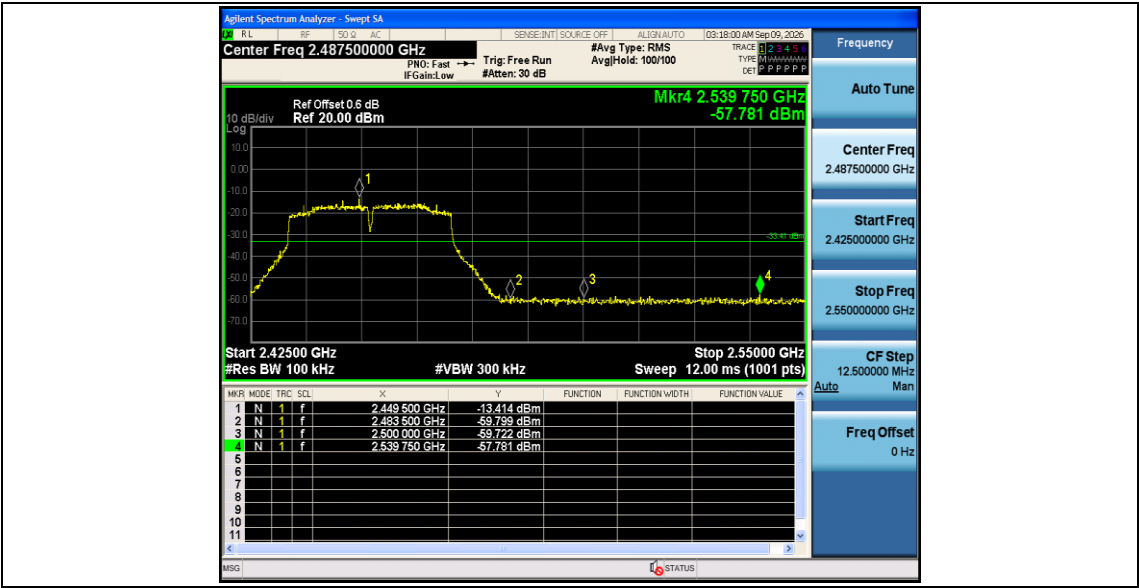
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



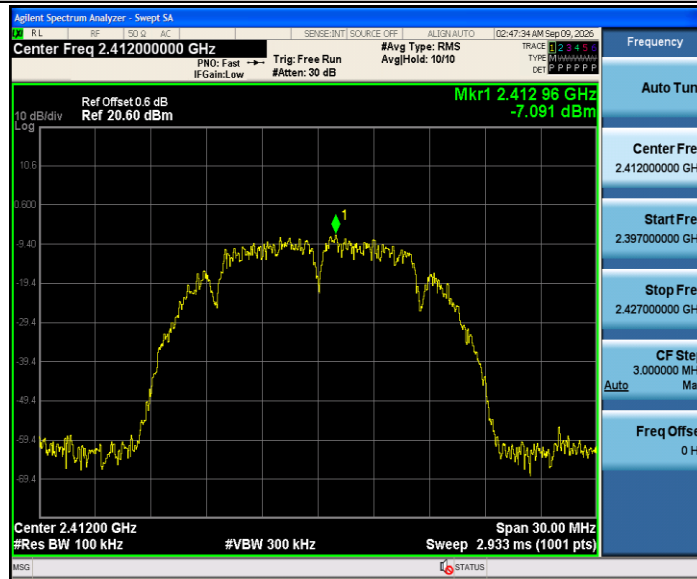
Appendix F: Conducted Spurious Emission

Test Result

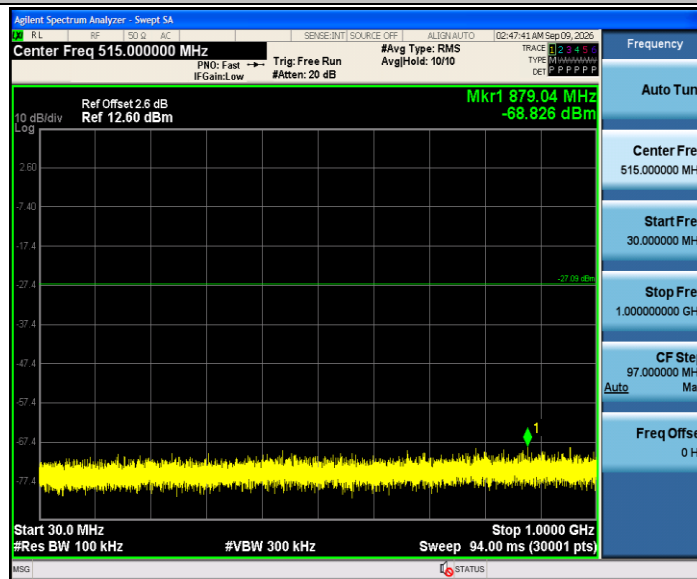
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.09	-7.09	---	PASS
			30~1000	-7.09	-68.83	≤-27.09	PASS
			1000~26500	-7.09	-46.51	≤-27.09	PASS
		2437	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-68.88	≤-25.75	PASS
			1000~26500	-5.75	-46.4	≤-25.75	PASS
		2462	Reference	-5.91	-5.91	---	PASS
			30~1000	-5.91	-68	≤-25.91	PASS
			1000~26500	-5.91	-45.91	≤-25.91	PASS
11G	Ant1	2412	Reference	-13.09	-13.09	---	PASS
			30~1000	-13.09	-67.81	≤-33.09	PASS
			1000~26500	-13.09	-45.89	≤-33.09	PASS
		2437	Reference	-9.22	-9.22	---	PASS
			30~1000	-9.22	-69.32	≤-29.22	PASS
			1000~26500	-9.22	-46.61	≤-29.22	PASS
		2462	Reference	-10.18	-10.18	---	PASS
			30~1000	-10.18	-68.51	≤-30.18	PASS
			1000~26500	-10.18	-46.81	≤-30.18	PASS
11N20SISO	Ant1	2412	Reference	-13.07	-13.07	---	PASS
			30~1000	-13.07	-68.54	≤-33.07	PASS
			1000~26500	-13.07	-46.69	≤-33.07	PASS
		2437	Reference	-13.33	-13.33	---	PASS
			30~1000	-13.33	-68.53	≤-33.33	PASS
			1000~26500	-13.33	-46.81	≤-33.33	PASS
		2462	Reference	-13.11	-13.11	---	PASS
			30~1000	-13.11	-69.18	≤-33.11	PASS
			1000~26500	-13.11	-46.3	≤-33.11	PASS
11N40SISO	Ant1	2422	Reference	-16.24	-16.24	---	PASS
			30~1000	-16.24	-69.09	≤-36.24	PASS
			1000~26500	-16.24	-45.93	≤-36.24	PASS
		2437	Reference	-16.56	-16.56	---	PASS
			30~1000	-16.56	-68.92	≤-36.56	PASS
			1000~26500	-16.56	-46.05	≤-36.56	PASS
		2452	Reference	-12.89	-12.89	---	PASS
			30~1000	-12.89	-67.89	≤-32.89	PASS
			1000~26500	-12.89	-46.99	≤-32.89	PASS

Test Graphs

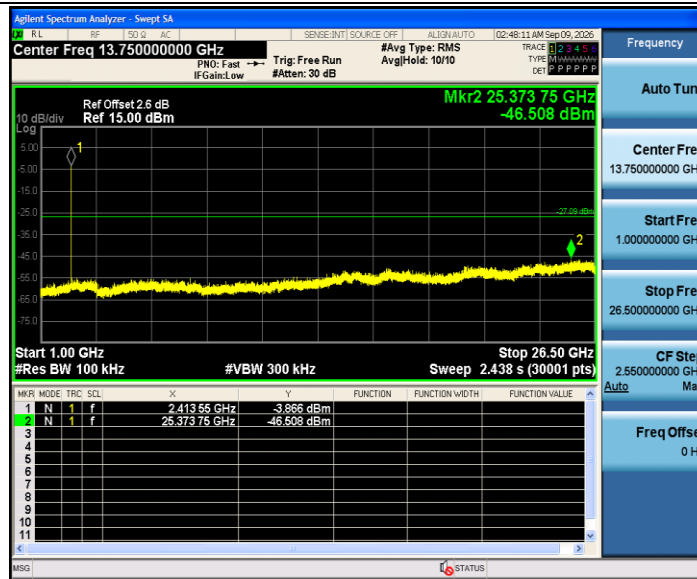
11B_Ant1_2412_0~Reference



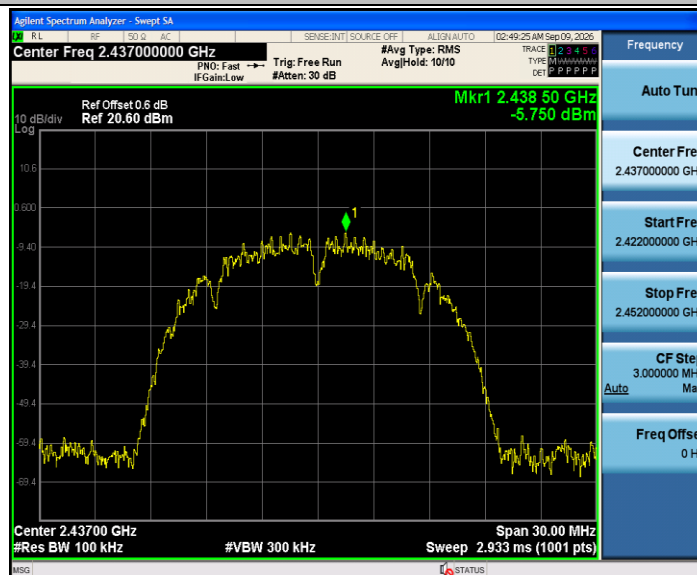
11B_Ant1_2412_30~1000



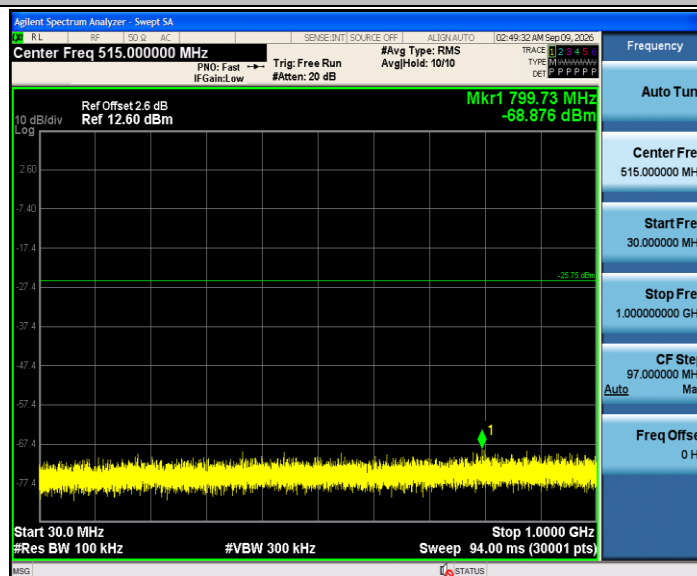
11B_Ant1_2412_1000~26500



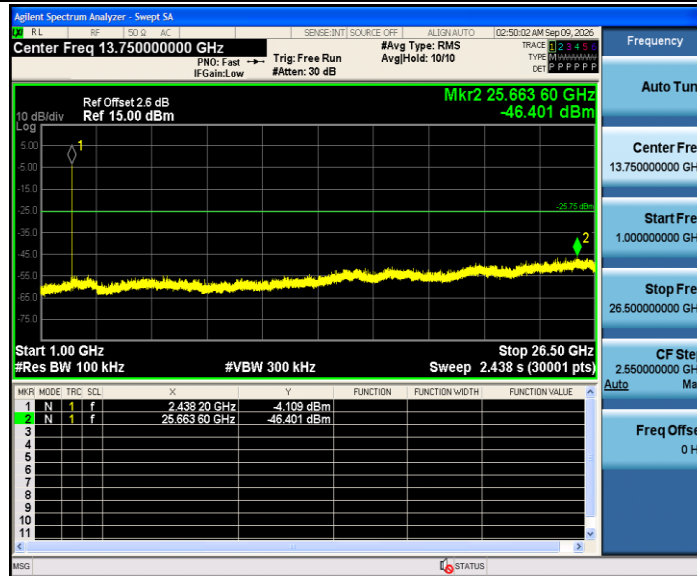
11B_Ant1_2437_0~Reference



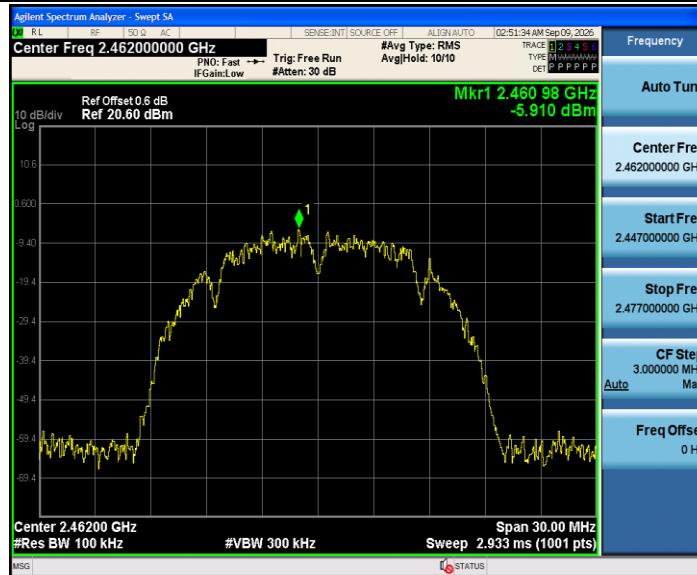
11B_Ant1_2437_30~1000



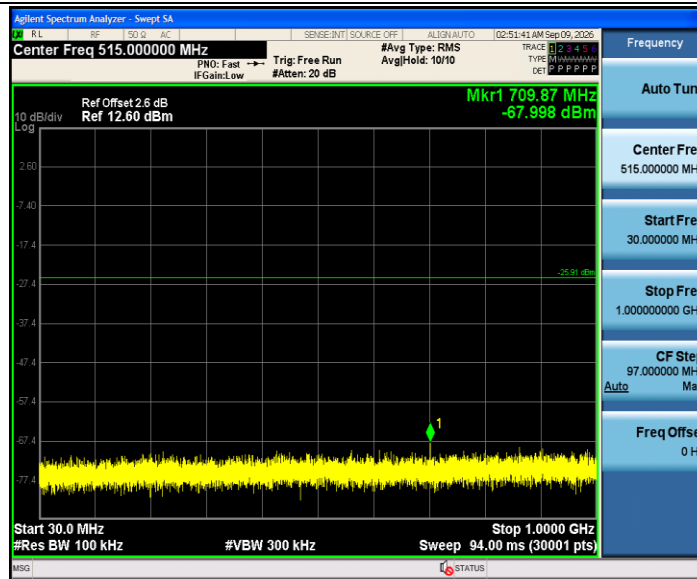
11B_Ant1_2437_1000~26500



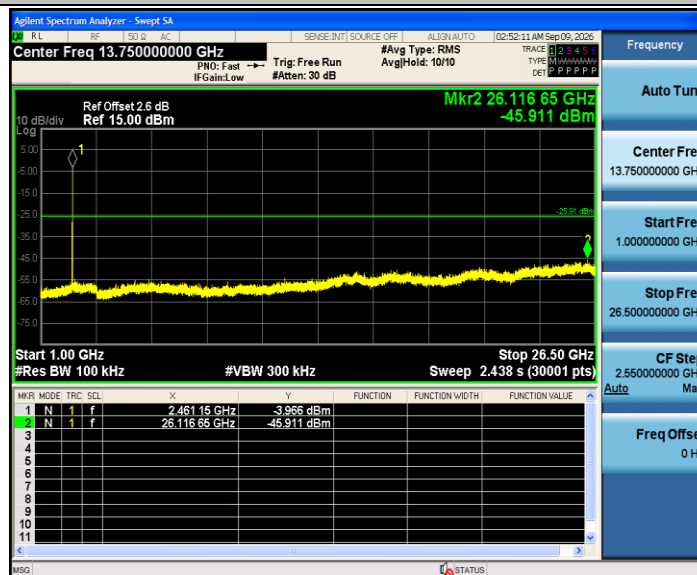
11B_Ant1_2462_0~Reference



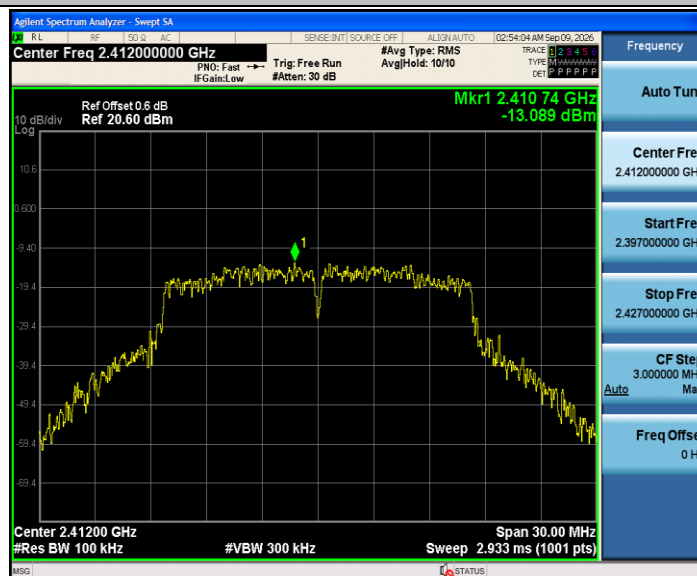
11B_Ant1_2462_30~1000



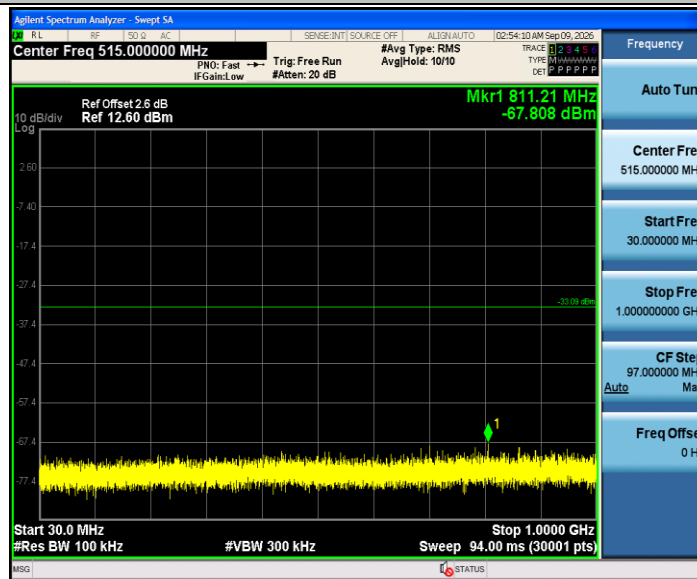
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



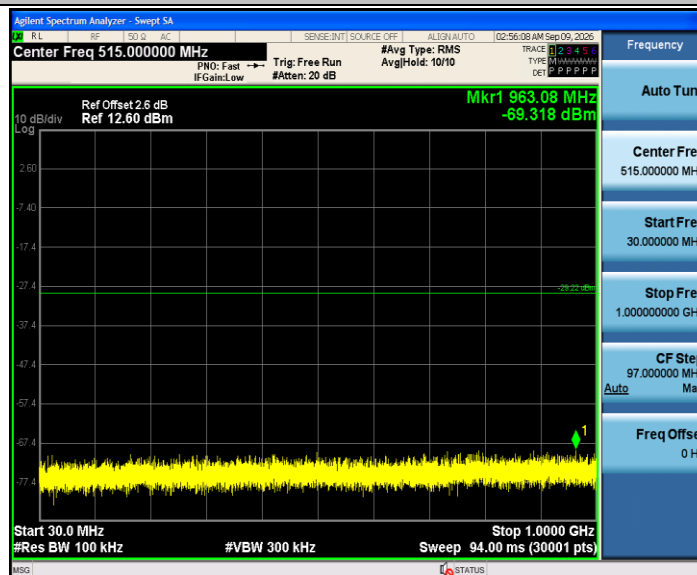
11G_Ant1_2412_1000~26500



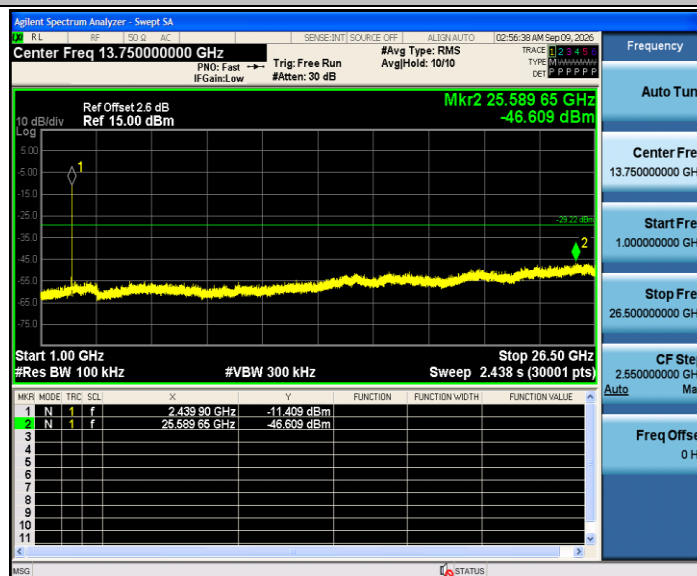
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



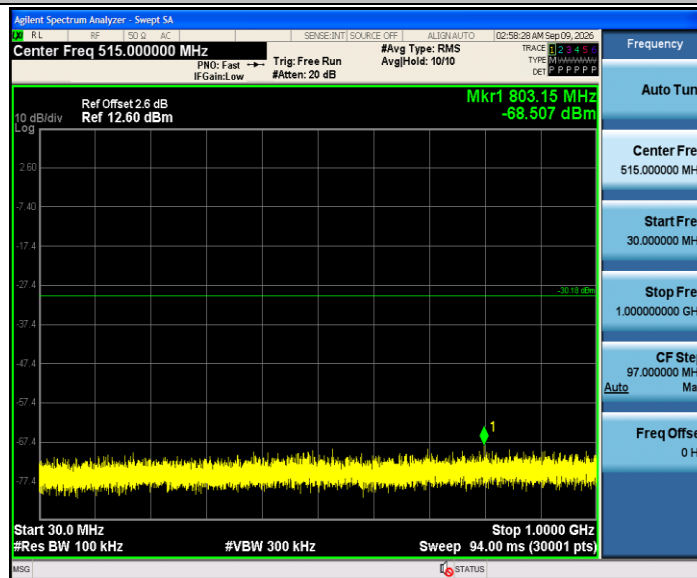
11G_Ant1_2437_1000~26500



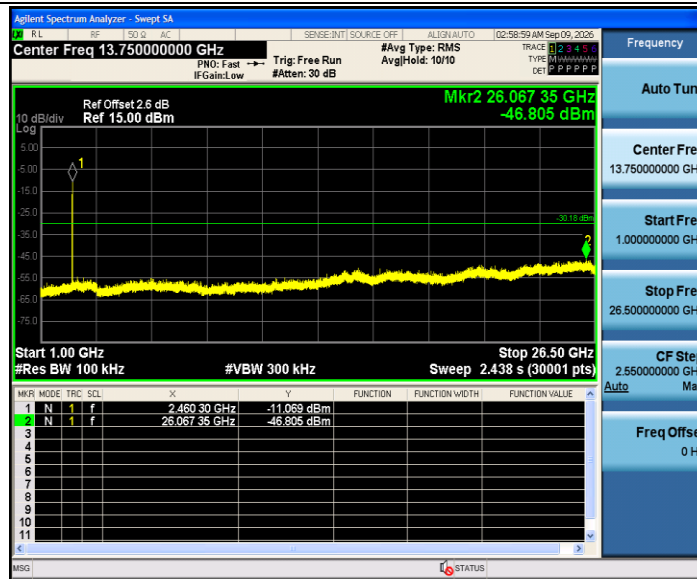
11G_Ant1_2462_0~Reference



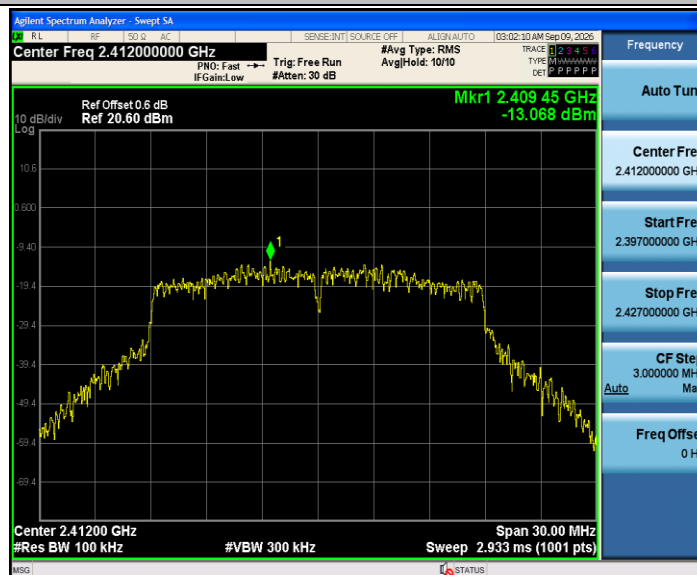
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

