

FCC Appendix RF Test Data

FCC ID : 2A3TW-P9

Company: : Shenzhen Black Eagle Weishi Electronic Technology Co., Ltd.

EUT : Surveillance camera

Model Number : P9

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	10.040	2406.960	2417.000	0.5	PASS
		2437	9.600	2431.960	2441.560	0.5	PASS
		2462	9.560	2457.000	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.760	2454.440	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.640	2429.440	2445.080	0.5	PASS
		2462	16.240	2454.360	2470.600	0.5	PASS

Test Graphs

11B_Ant1_2412



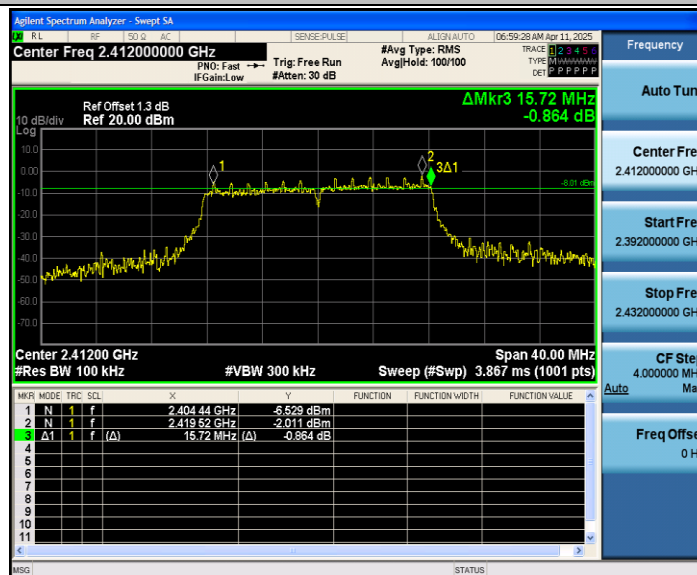
11B_Ant1_2437



11B_Ant1_2462



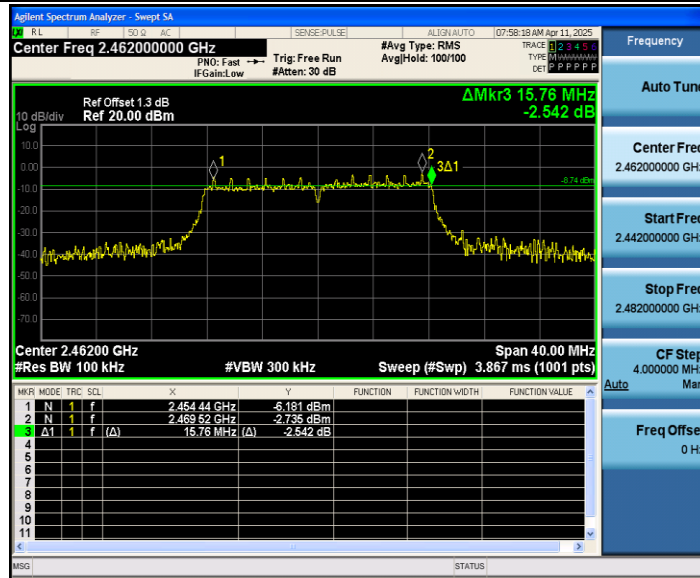
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



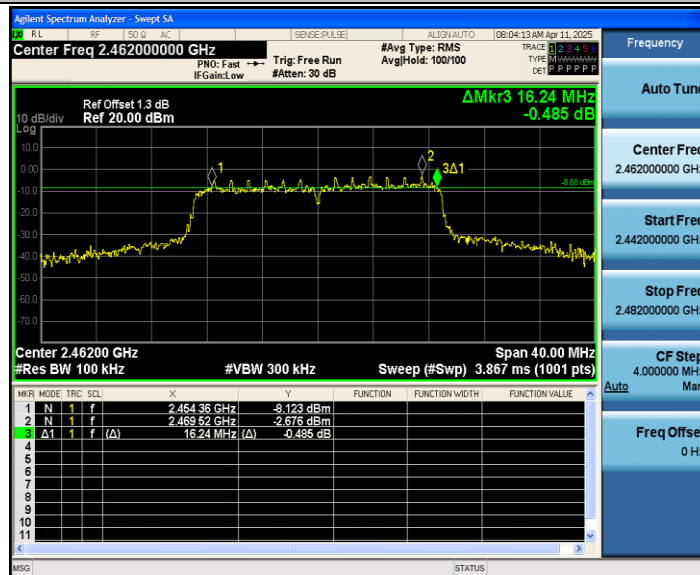
11N20SISO_Ant1_2412



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	12.340	2405.7909	2418.1309	---	---
		2437	11.571	2431.0053	2442.5763	---	---
		2462	12.690	2455.4828	2468.1728	---	---
11G	Ant1	2412	16.795	2403.7509	2420.5459	---	---
		2437	16.684	2428.7849	2445.4689	---	---
		2462	16.886	2453.7034	2470.5894	---	---
11N20SISO	Ant1	2412	17.909	2403.2277	2421.1367	---	---
		2437	17.656	2428.3197	2445.9757	---	---
		2462	17.975	2453.1629	2471.1379	---	---

Test Graphs

11B_Ant1_2412



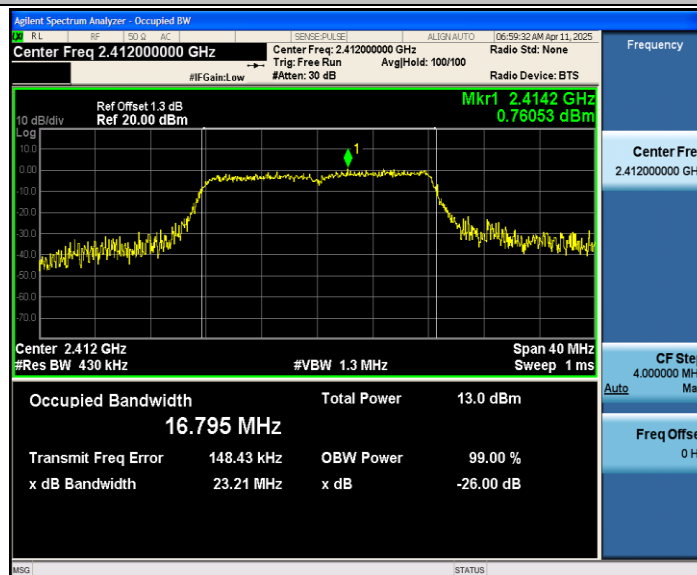
11B_Ant1_2437



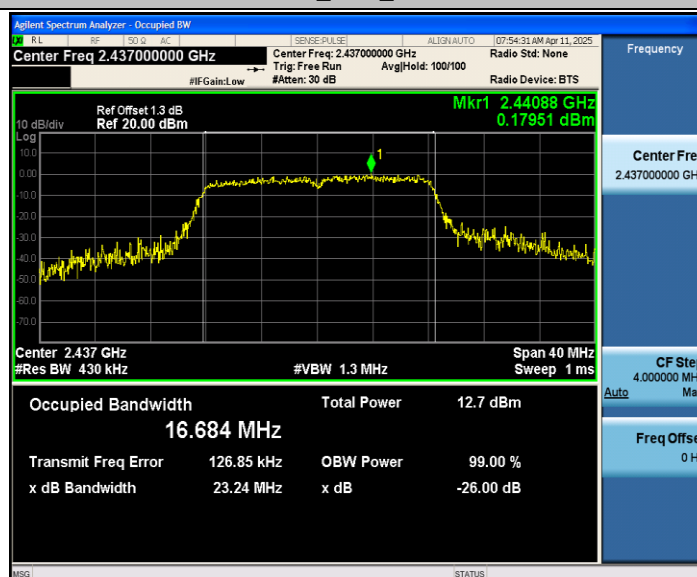
11B_Ant1_2462



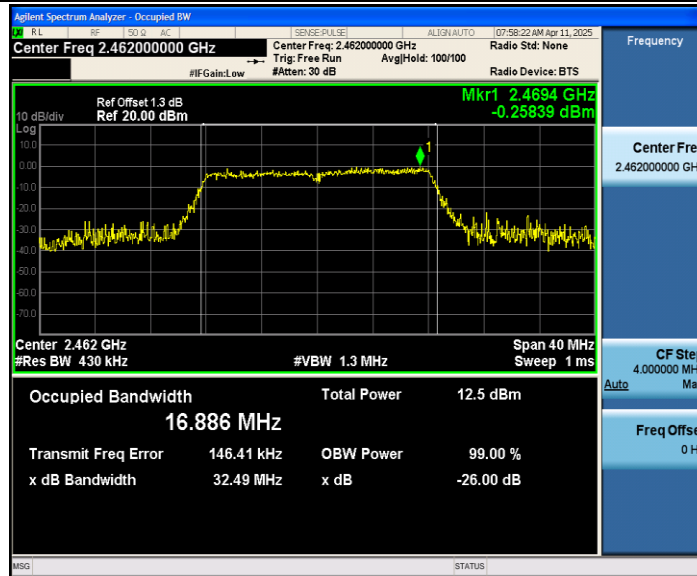
11G_Ant1_2412



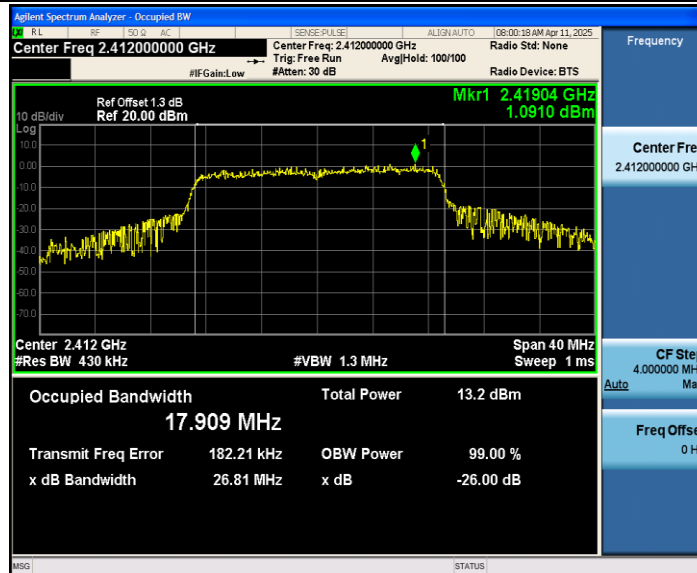
11G_Ant1_2437



11G_Ant1_2462



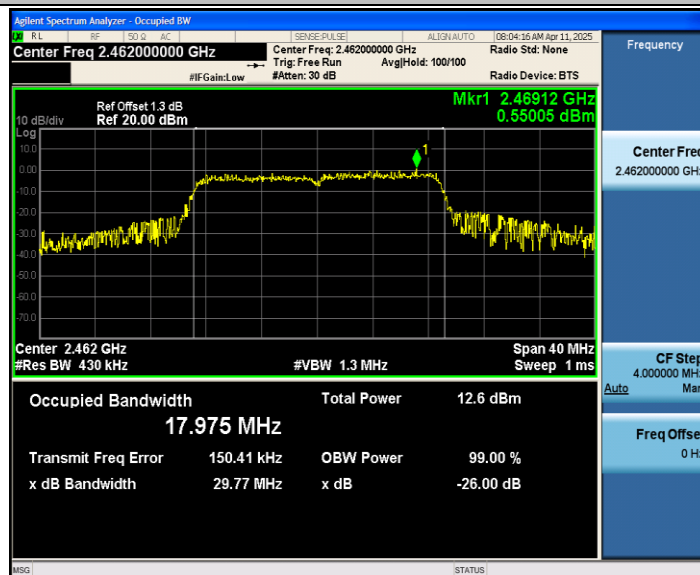
11N20SISO_Ant1_2412



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	15.03	≤30.00	PASS
		2437	14.12	≤30.00	PASS
		2462	14.42	≤30.00	PASS
11G	Ant1	2412	13.54	≤30.00	PASS
		2437	13.49	≤30.00	PASS
		2462	13.15	≤30.00	PASS
11N20SISO	Ant1	2412	13.80	≤30.00	PASS
		2437	13.31	≤30.00	PASS
		2462	12.93	≤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	-10.78	≤8.00	PASS
		2437	-11.25	≤8.00	PASS
		2462	-11.01	≤8.00	PASS
11G	Ant1	2412	-17.77	≤8.00	PASS
		2437	-17.58	≤8.00	PASS
		2462	-18.89	≤8.00	PASS
11N20SISO	Ant1	2412	-18.18	≤8.00	PASS
		2437	-18.17	≤8.00	PASS
		2462	-18.51	≤8.00	PASS

Test Graphs

11B_Ant1_2412



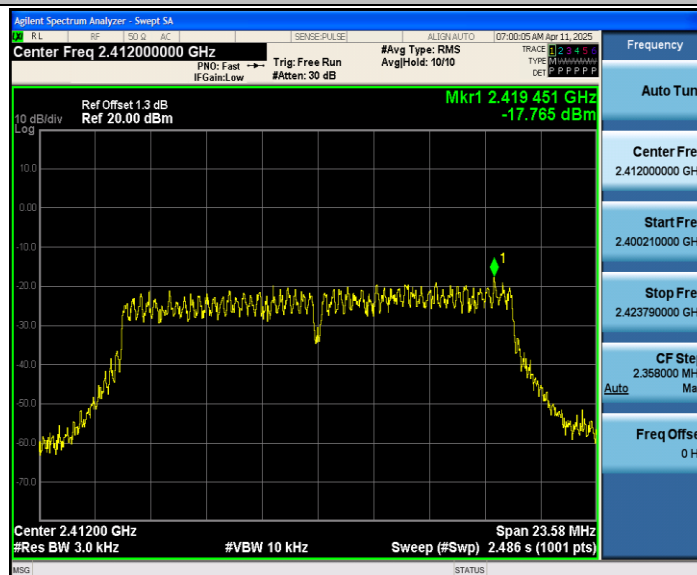
11B_Ant1_2437



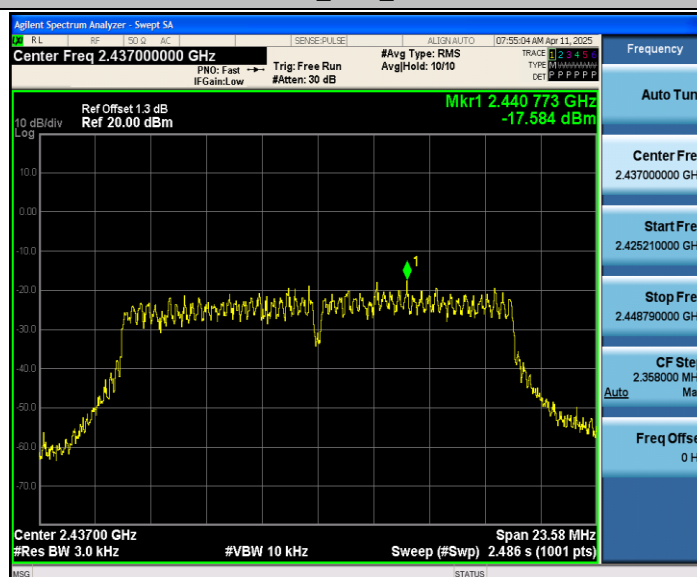
11B_Ant1_2462



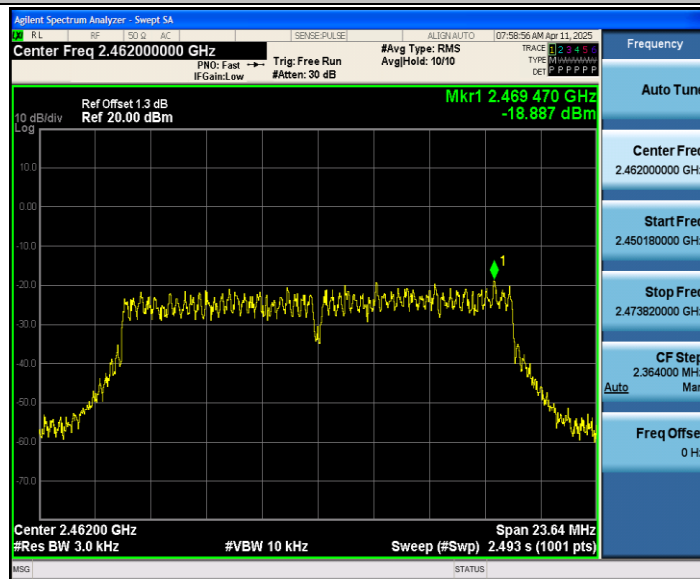
11G_Ant1_2412



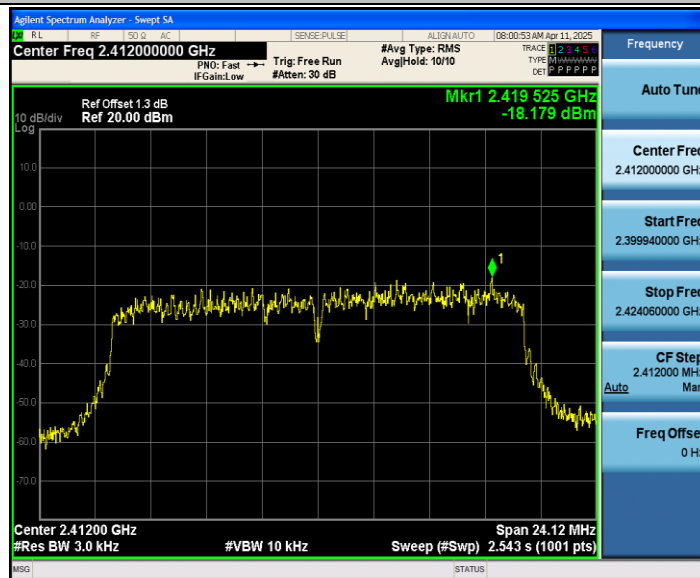
11G_Ant1_2437



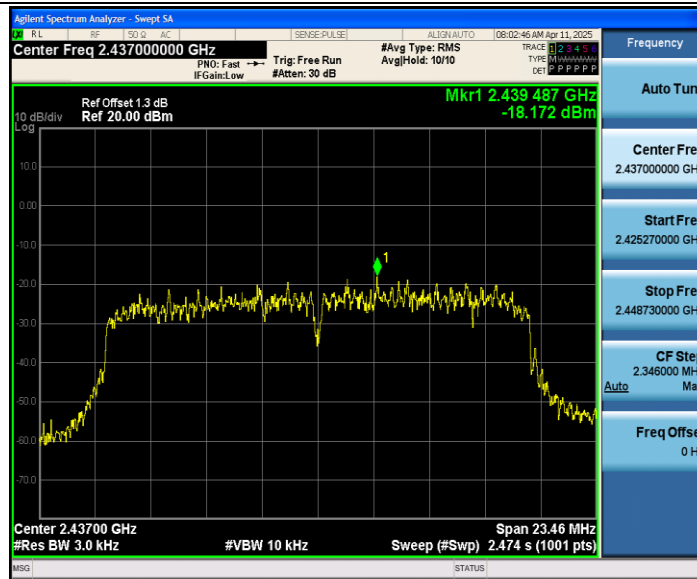
11G_Ant1_2462



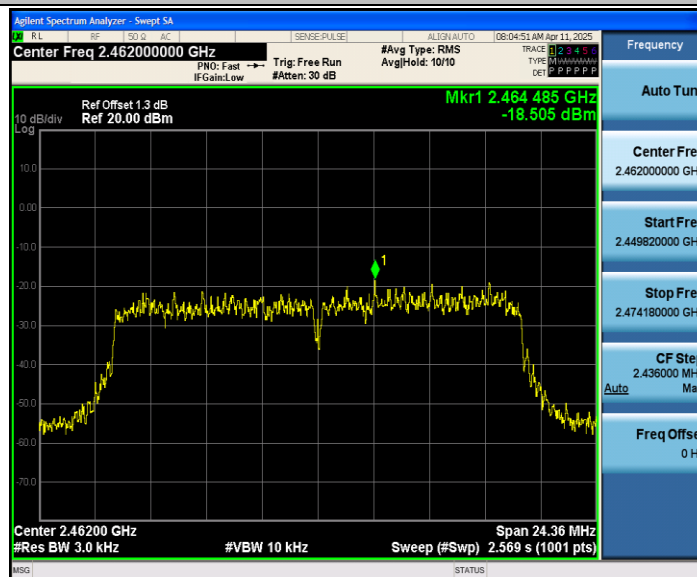
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



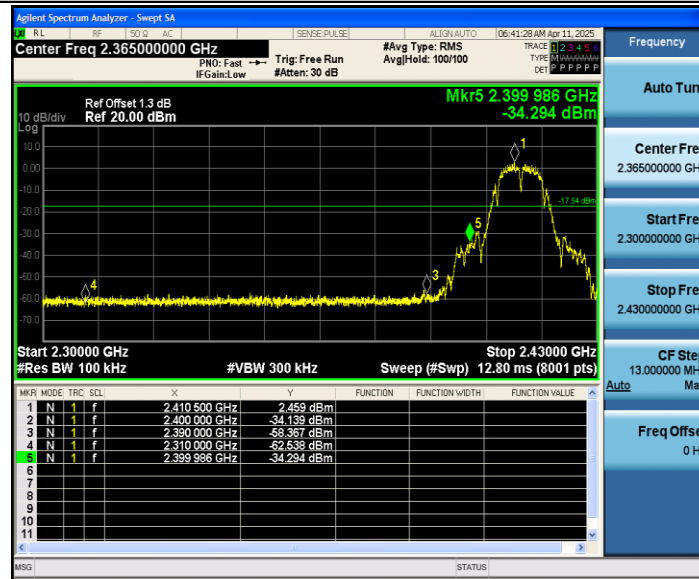
Appendix E: Band edge measurements

Test Result

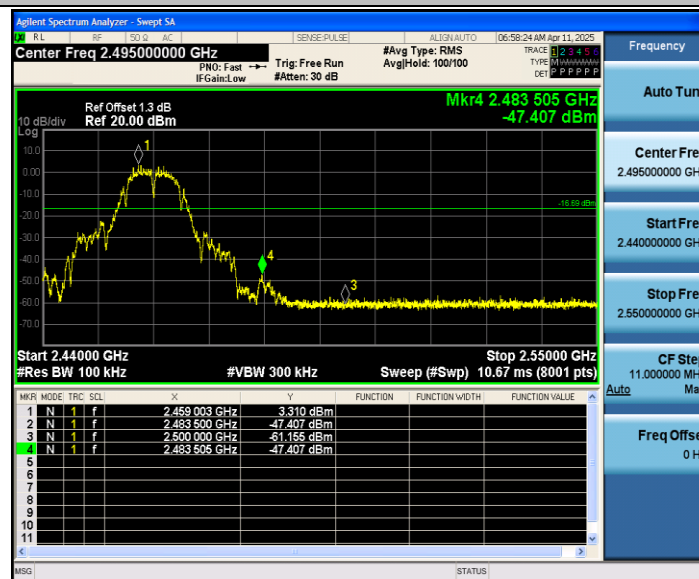
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.46	-34.29	≤-17.54	PASS
		High	2462	3.31	-47.41	≤-16.69	PASS
11G	Ant1	Low	2412	-2.21	-37.62	≤-22.21	PASS
		High	2462	-2.87	-34.6	≤-22.87	PASS
11N20SISO	Ant1	Low	2412	-2.01	-35.72	≤-22.01	PASS
		High	2462	-2.60	-38.68	≤-22.6	PASS

Test Graphs

11B_Ant1_Low_2412



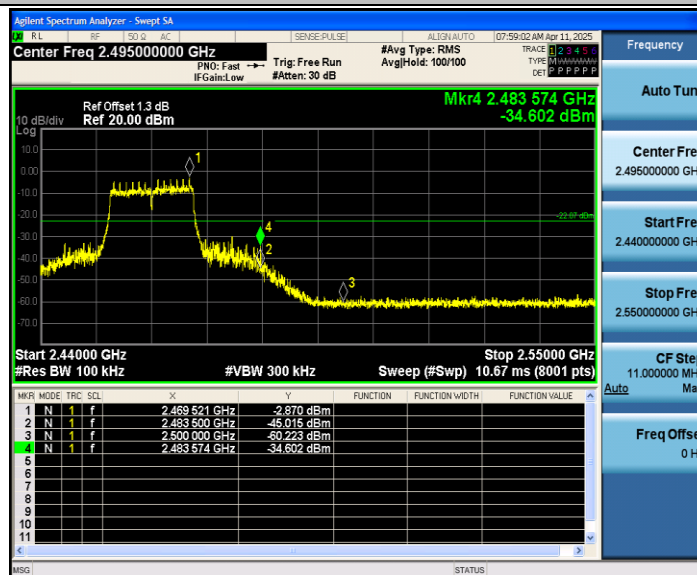
11B_Ant1_High_2462



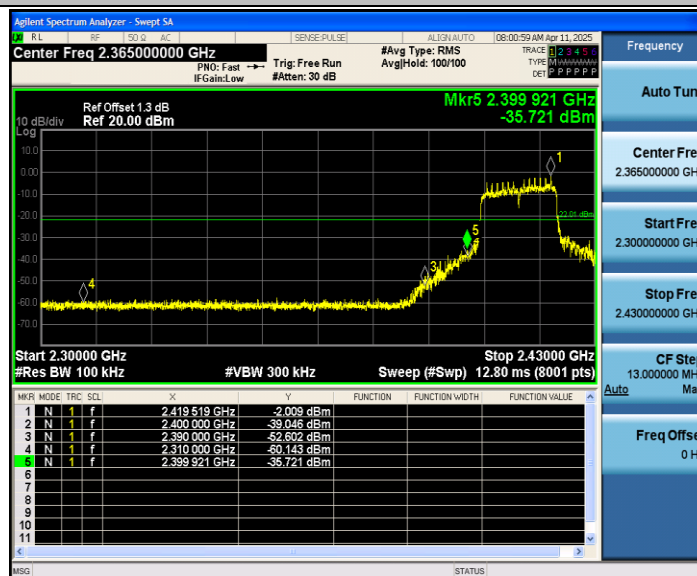
11G_Ant1_Low_2412



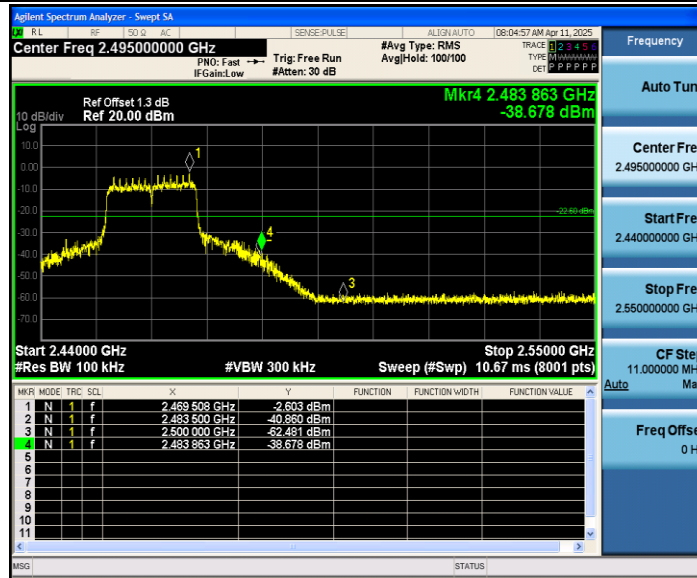
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

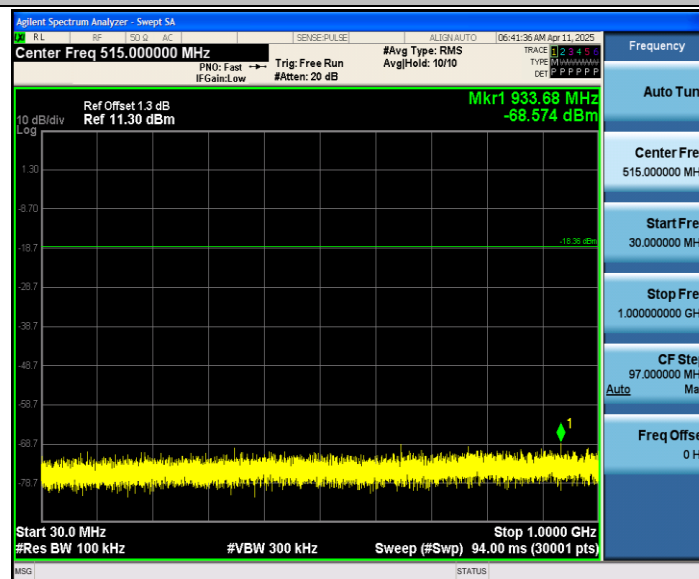
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-68.57	≤-18.36	PASS
			1000~26500	1.64	-39.87	≤-18.36	PASS
		2437	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-69.08	≤-20.21	PASS
			1000~26500	-0.21	-38.58	≤-20.21	PASS
		2462	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-69.53	≤-18.21	PASS
			1000~26500	1.79	-31.37	≤-18.21	PASS
11G	Ant1	2412	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-68.97	≤-22.69	PASS
			1000~26500	-2.69	-39.49	≤-22.69	PASS
		2437	Reference	-2.98	-2.98	---	PASS
			30~1000	-2.98	-69.1	≤-22.98	PASS
			1000~26500	-2.98	-51.64	≤-22.98	PASS
		2462	Reference	-3.50	-3.50	---	PASS
			30~1000	-3.50	-69.1	≤-23.5	PASS
			1000~26500	-3.50	-48.23	≤-23.5	PASS
11N20SISO	Ant1	2412	Reference	-4.15	-4.15	---	PASS
			30~1000	-4.15	-69.58	≤-24.15	PASS
			1000~26500	-4.15	-53.31	≤-24.15	PASS
		2437	Reference	-3.06	-3.06	---	PASS
			30~1000	-3.06	-69.13	≤-23.06	PASS
			1000~26500	-3.06	-40.6	≤-23.06	PASS
		2462	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-68.65	≤-23.56	PASS
			1000~26500	-3.56	-45.46	≤-23.56	PASS

Test Graphs

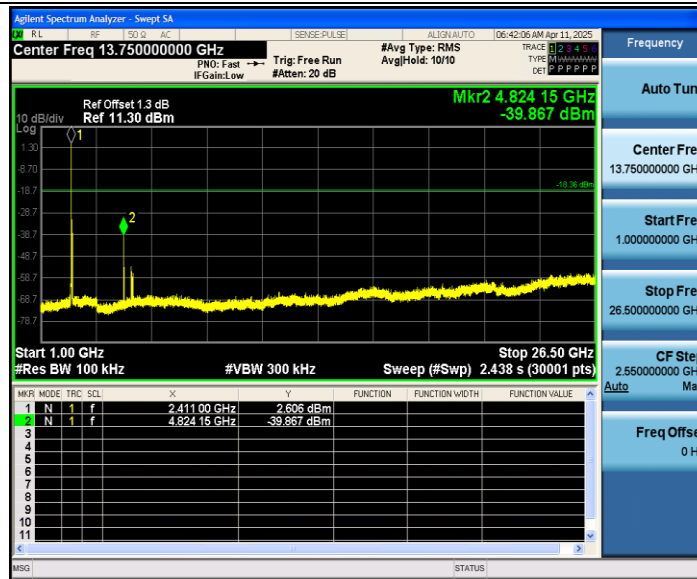
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



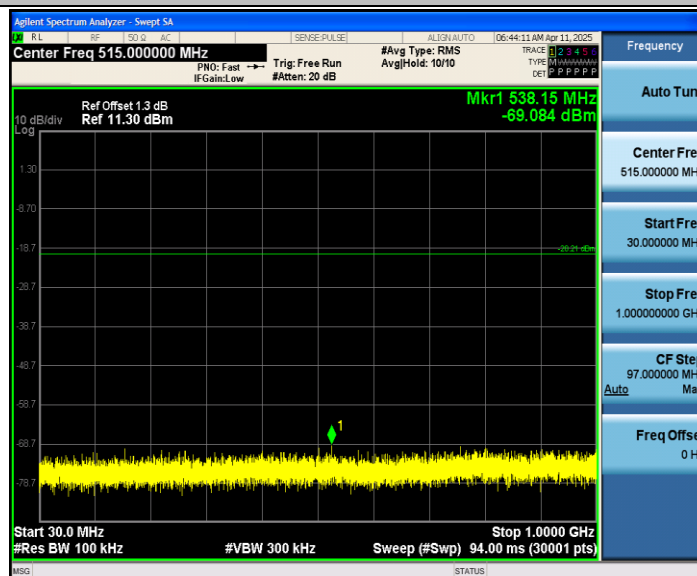
11B_Ant1_2412_1000~26500



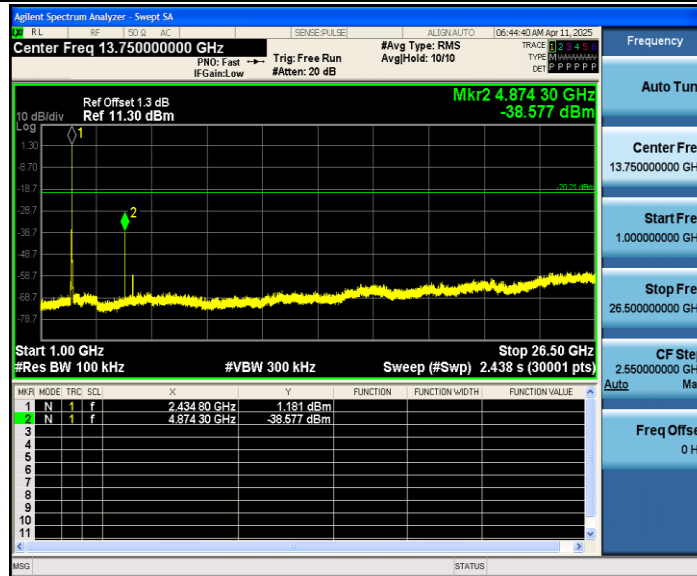
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



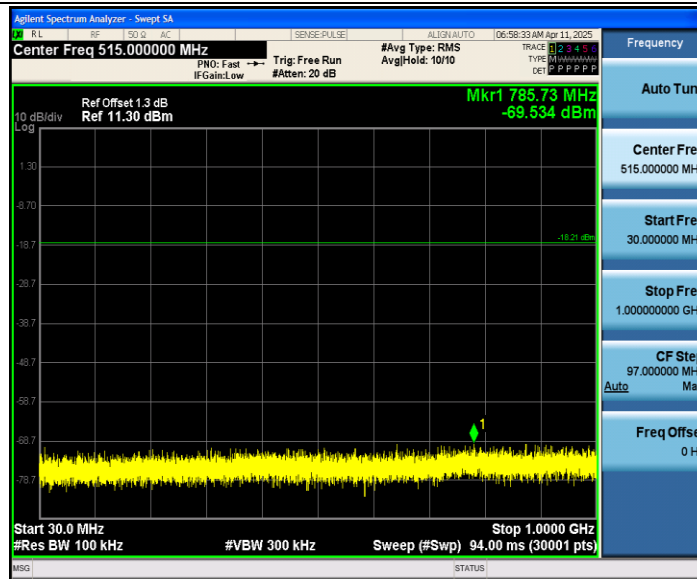
11B_Ant1_2437_1000~26500



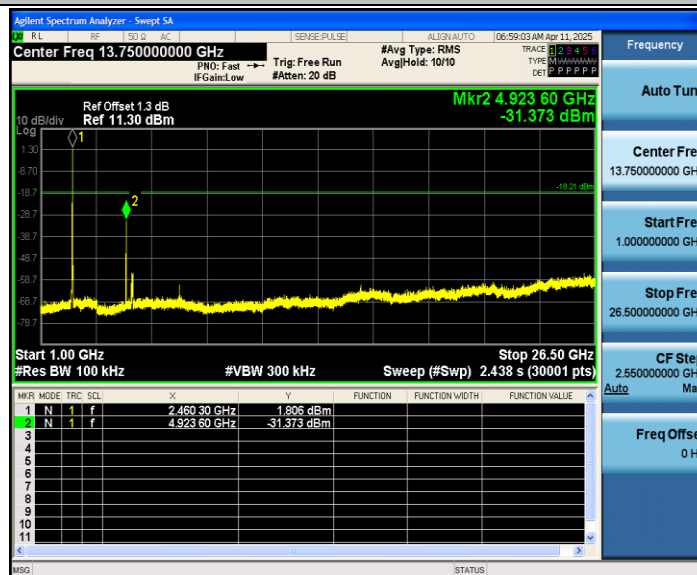
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



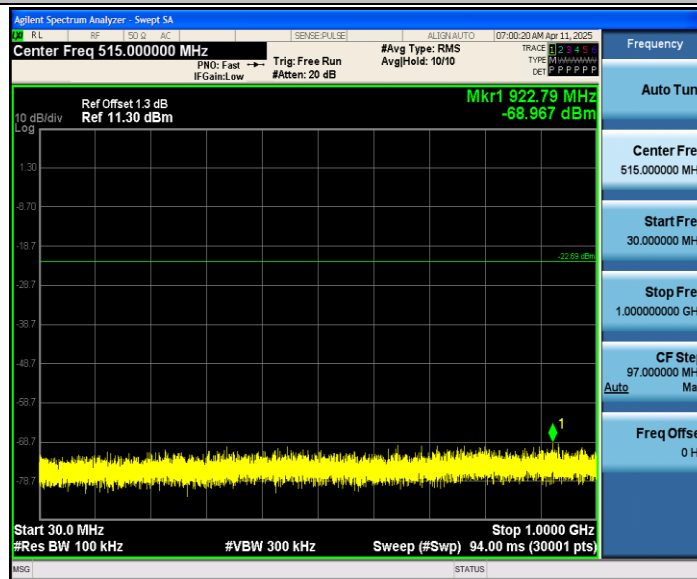
11B_Ant1_2462_1000~26500



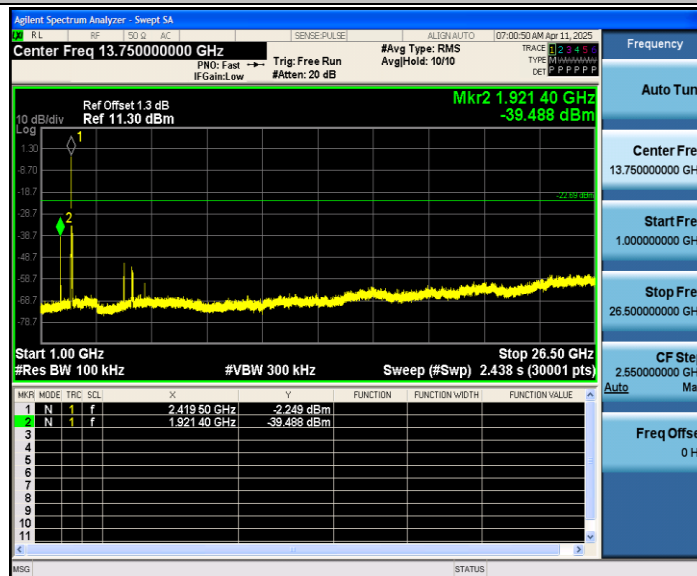
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



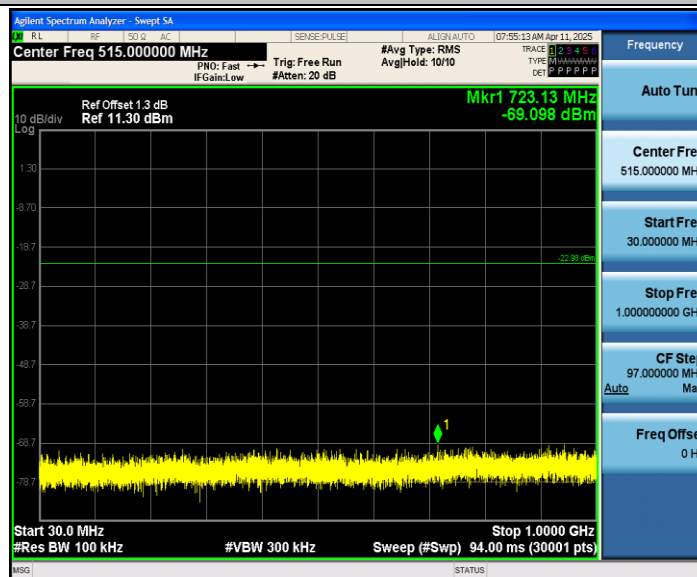
11G_Ant1_2412_1000~26500



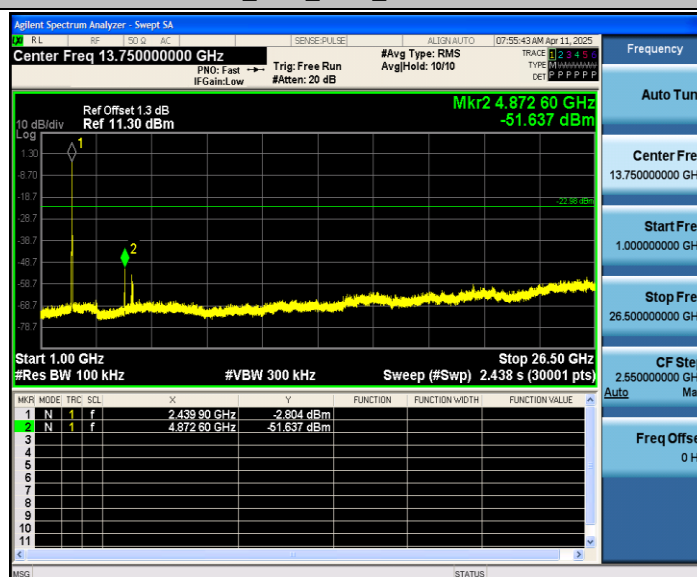
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



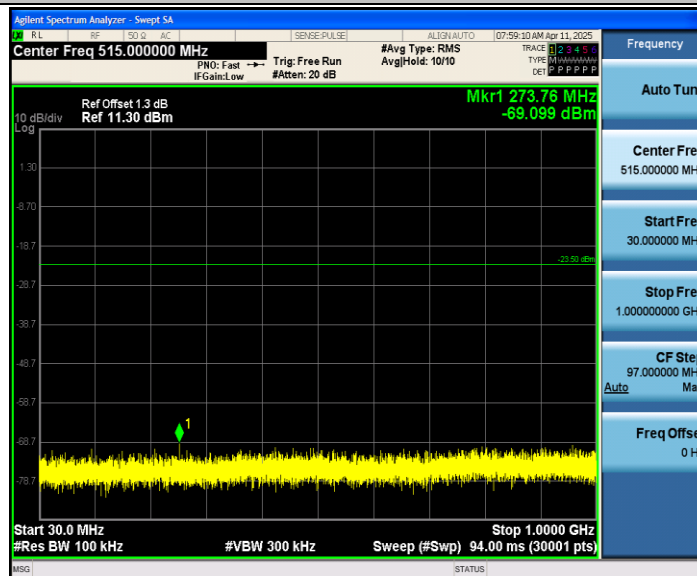
11G_Ant1_2437_1000~26500



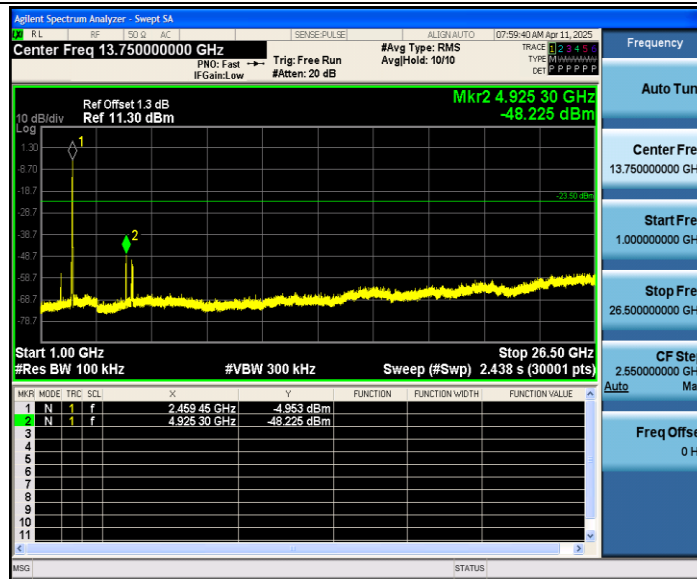
11G_Ant1_2462_0~Reference



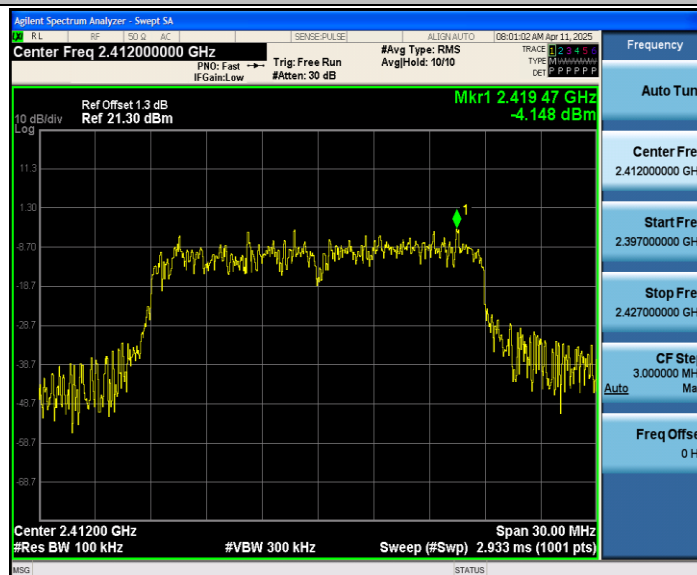
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

