

Applicant: Shenzhen Anboqi Technology Co.,Ltd

Case No. : TH2401212-C05

EUT: Wifi Camera

M/N: ABQ-A28

Standard: FCC PART 15 C 15.247

Test Power Supply: NA

Ambient Condition: 20 °C, 36 %RH, 101.325 kPa

Test Date: 2024.01.23

Test Engineer: Blue

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	15.840	2454.040	2469.880	0.5	PASS
11N20SISO	Ant1	2412	16.040	2403.840	2419.880	0.5	PASS
		2437	16.400	2428.480	2444.880	0.5	PASS
		2462	17.000	2453.480	2470.480	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	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.835	2404.5972	2419.4322	---	---
		2437	14.768	2429.6723	2444.4403	---	---
		2462	14.791	2454.6370	2469.4280	---	---
11G	Ant1	2412	16.305	2403.8188	2420.1238	---	---
		2437	16.497	2428.7715	2445.2685	---	---
		2462	16.504	2453.7768	2470.2808	---	---
11N20SISO	Ant1	2412	17.732	2403.1540	2420.8860	---	---
		2437	17.645	2428.2224	2445.8674	---	---
		2462	17.674	2453.1831	2470.8571	---	---

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



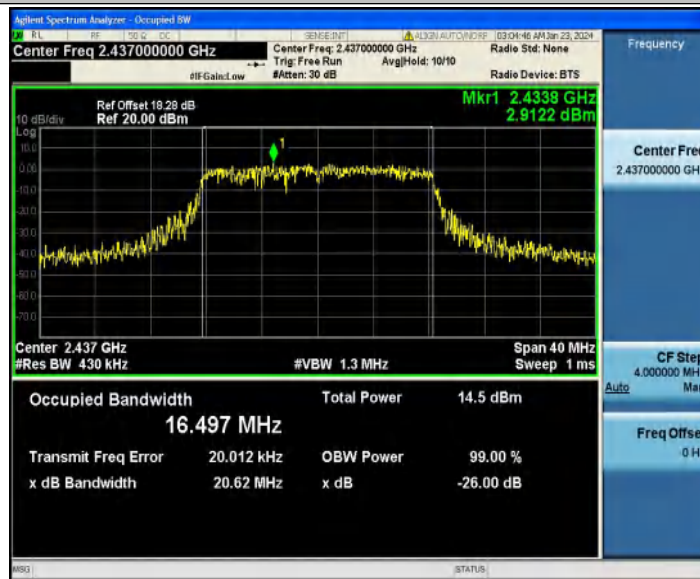
11B_Ant1_2462



11G_Ant1_2412



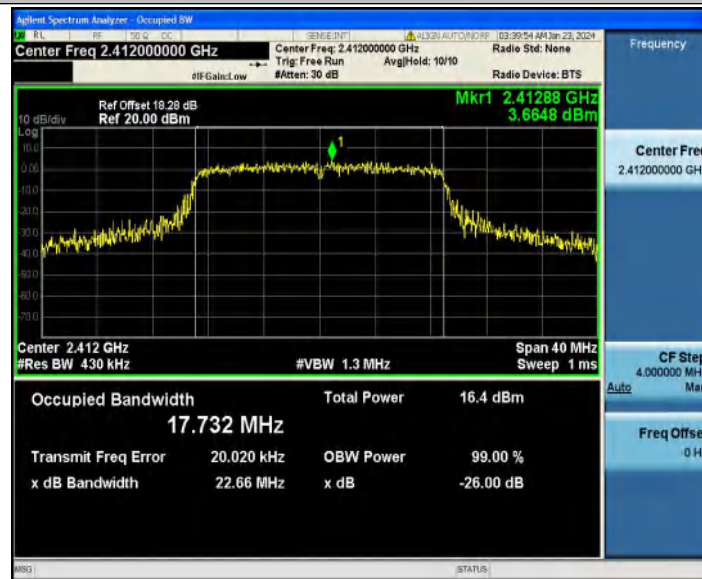
11G_Ant1_2437



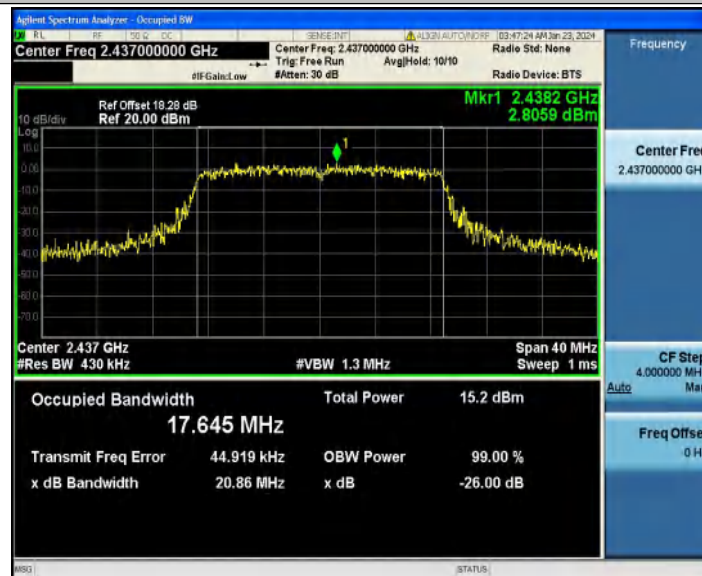
11G_Ant1_2462



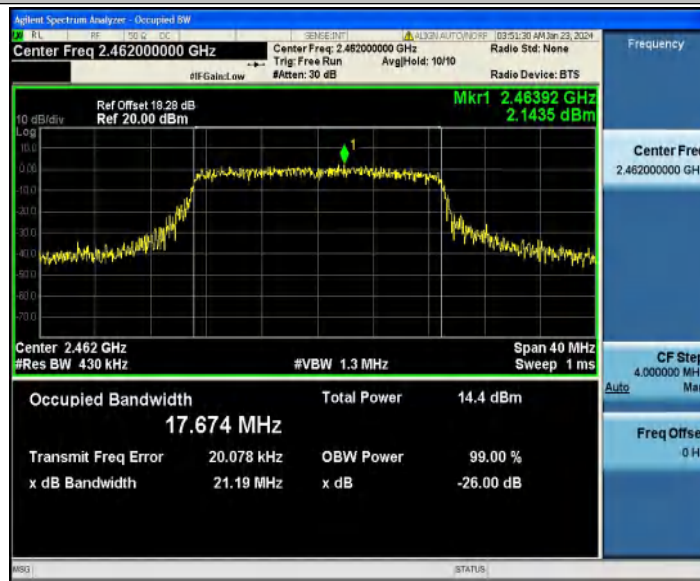
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



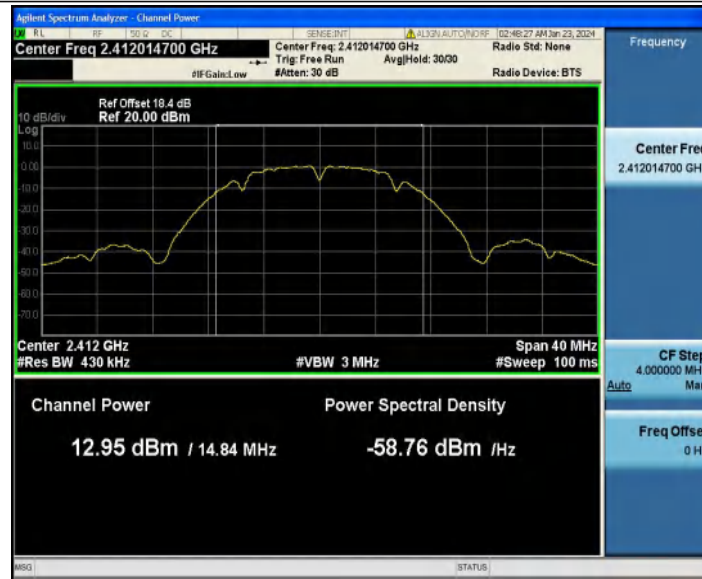
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	12.95	≤30.00	PASS
		2437	---	11.26	≤30.00	PASS
		2462	---	10.92	≤30.00	PASS
11G	Ant1	2412	---	12.55	≤30.00	PASS
		2437	---	11.75	≤30.00	PASS
		2462	---	11.16	≤30.00	PASS
11N20SIS O	Ant1	2412	---	12.96	≤30.00	PASS
		2437	---	11.56	≤30.00	PASS
		2462	---	10.97	≤30.00	PASS

Test Graphs Peak

11B_Ant1_2412



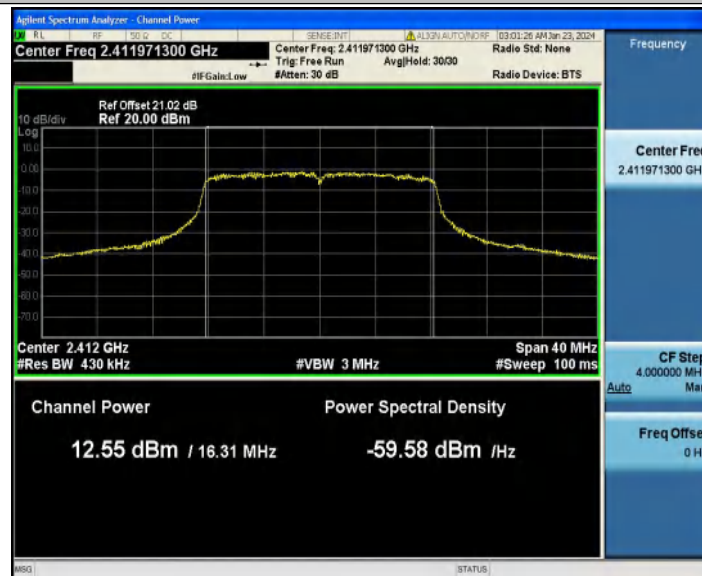
11B_Ant1_2437



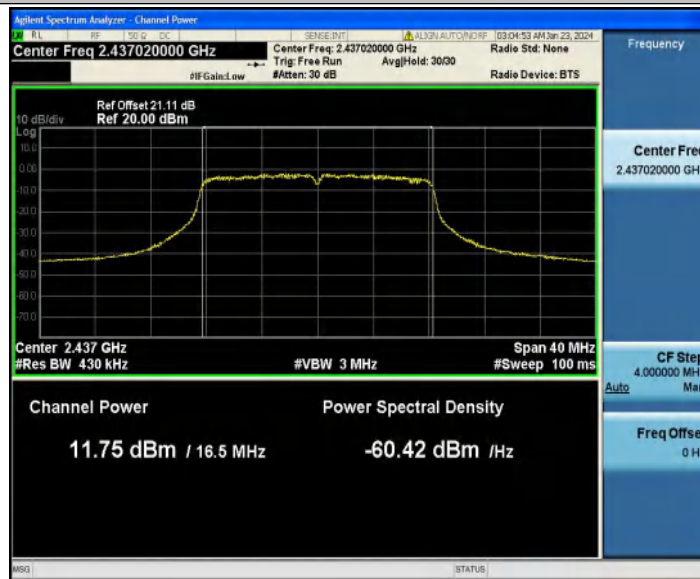
11B_Ant1_2462



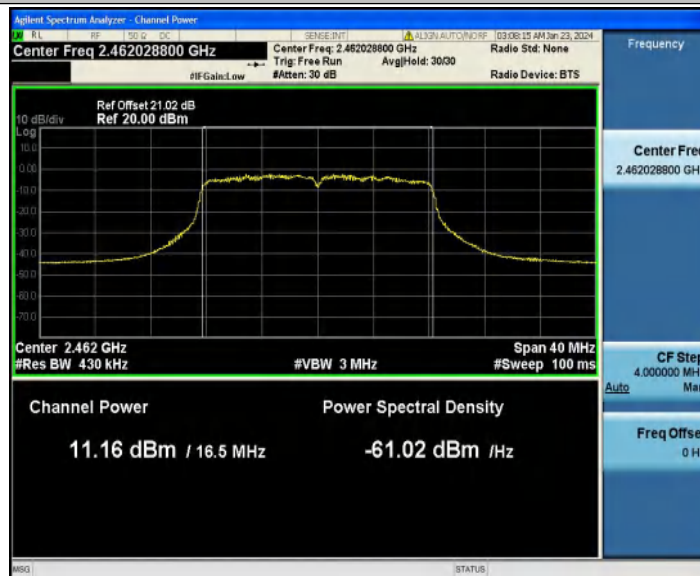
11G_Ant1_2412



11G_Ant1_2437



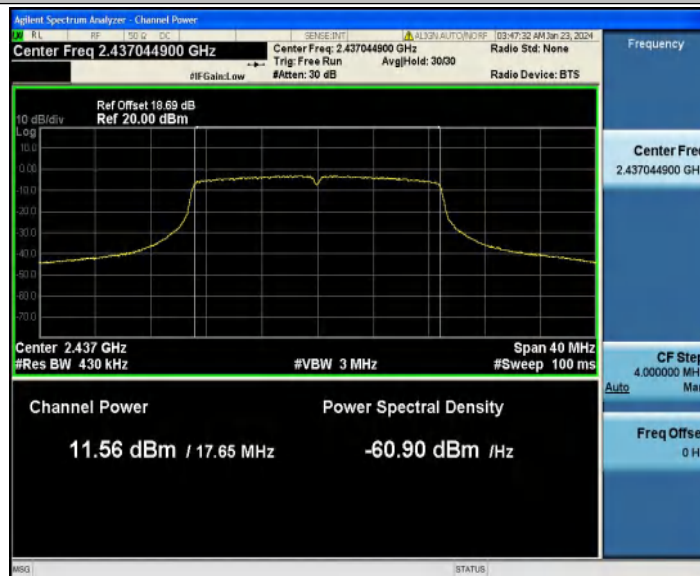
11G_Ant1_2462



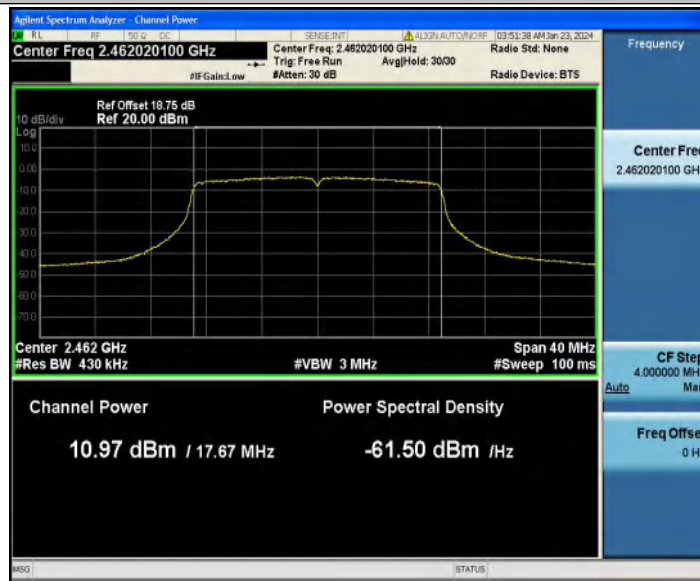
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.25	≤8.00	PASS
		2437	-20.97	≤8.00	PASS
		2462	-21.39	≤8.00	PASS
11G	Ant1	2412	-19.34	≤8.00	PASS
		2437	-19.38	≤8.00	PASS
		2462	-20.95	≤8.00	PASS
11N20SISO	Ant1	2412	-20.64	≤8.00	PASS
		2437	-21.54	≤8.00	PASS
		2462	-23.05	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



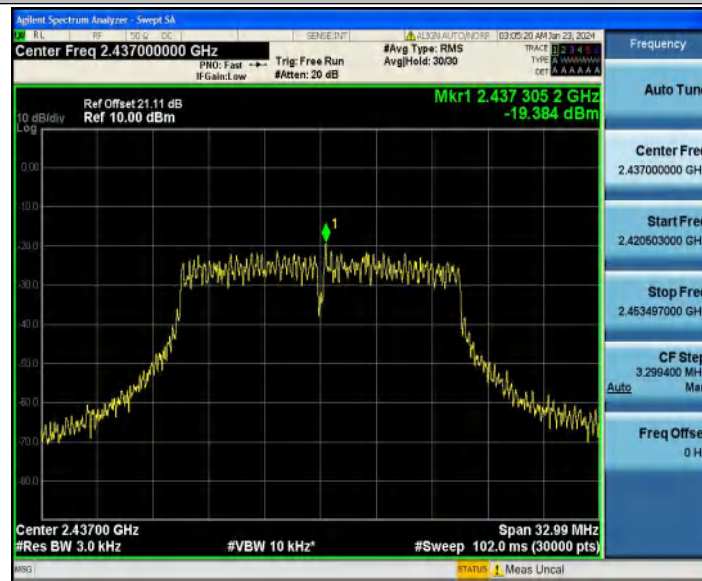
11B_Ant1_2462



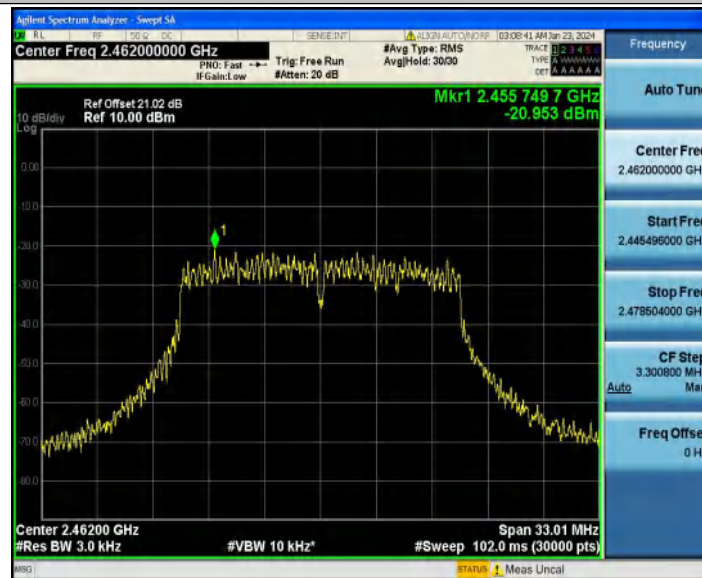
11G_Ant1_2412



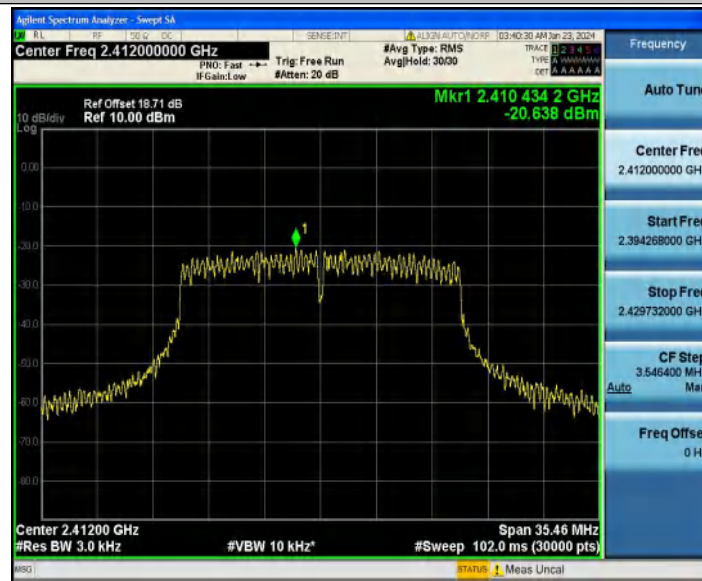
11G_Ant1_2437



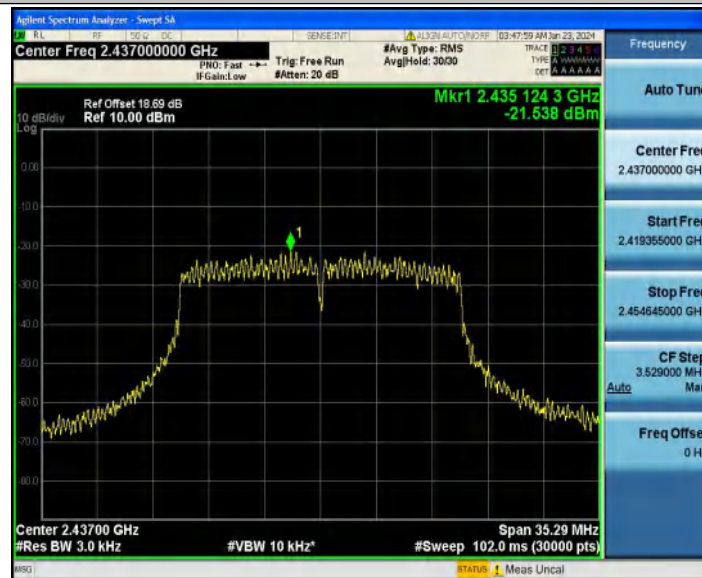
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix E: Band edge measurements

Test Result

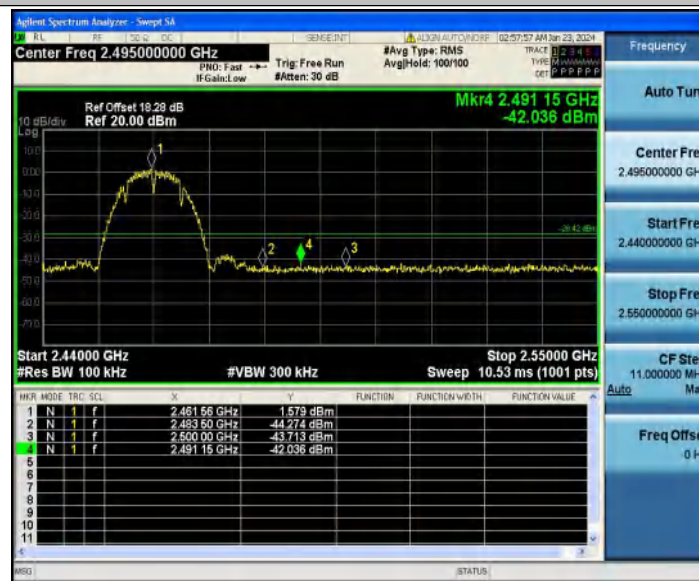
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.55	-33.44	≤ -26.45	PASS
		High	2462	1.58	-42.04	≤ -28.42	PASS
11G	Ant1	Low	2412	1.31	-32.6	≤ -28.69	PASS
		High	2462	-0.36	-41.15	≤ -30.36	PASS
11N20SISO	Ant1	Low	2412	0.73	-29.93	≤ -29.27	PASS
		High	2462	0.32	-40.88	≤ -29.68	PASS

Test Graphs

11B_Ant1_Low_2412



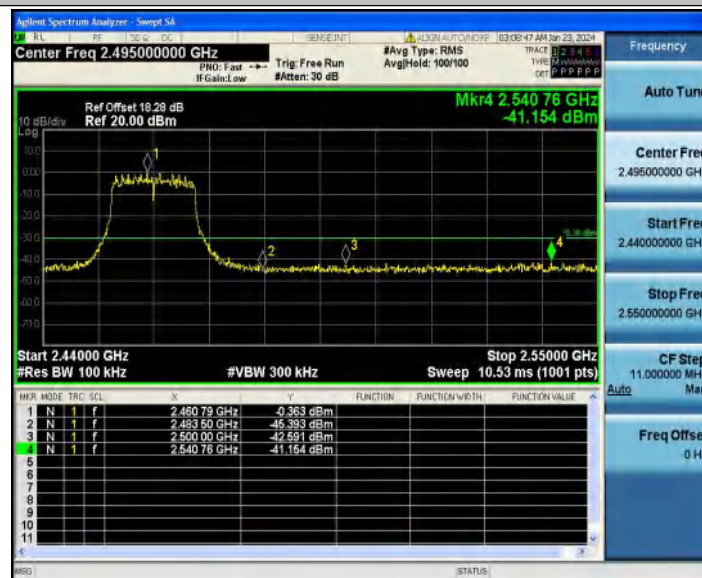
11B_Ant1_High_2462



11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

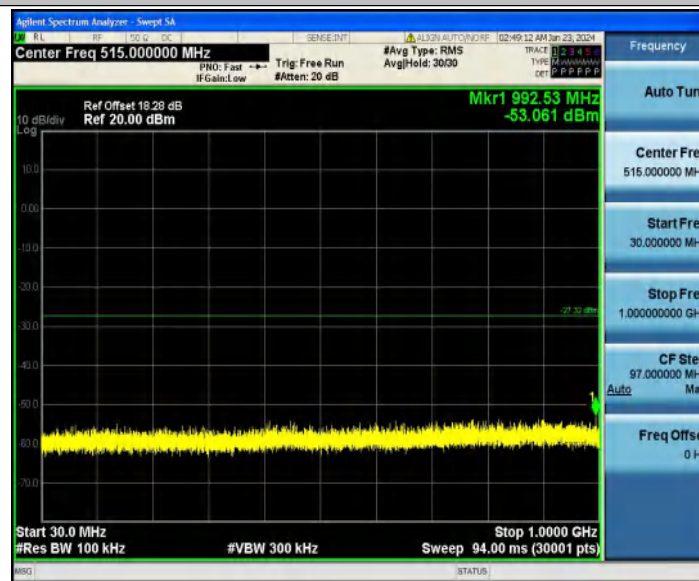
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-53.06	≤-27.32	PASS
			1000~26500	2.68	-43.96	≤-27.32	PASS
		2437	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-53.17	≤-29.79	PASS
			1000~26500	0.21	-42.93	≤-29.79	PASS
		2462	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-53.11	≤-30.18	PASS
			1000~26500	-0.18	-43.66	≤-30.18	PASS
11G	Ant1	2412	Reference	0.30	0.30	---	PASS
			30~1000	0.30	-53.44	≤-29.7	PASS
			1000~26500	0.30	-43.46	≤-29.7	PASS
		2437	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-52.32	≤-30.77	PASS
			1000~26500	-0.77	-43.18	≤-30.77	PASS
		2462	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-52.64	≤-30.46	PASS
			1000~26500	-0.46	-43.66	≤-30.46	PASS
11N20SISO	Ant1	2412	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-53.08	≤-29.76	PASS
			1000~26500	0.24	-42.98	≤-29.76	PASS
		2437	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-52.7	≤-29.97	PASS
			1000~26500	0.03	-43.1	≤-29.97	PASS
		2462	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-53.32	≤-33.51	PASS
			1000~26500	-3.51	-43.59	≤-33.51	PASS

Test Graphs

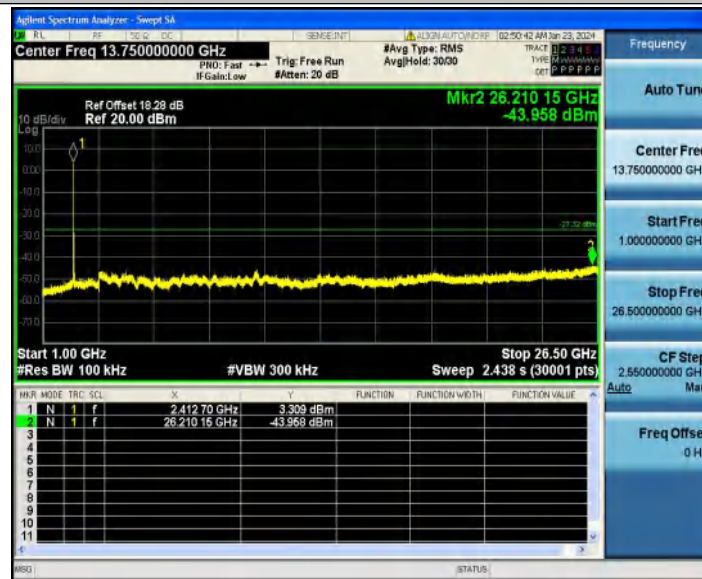
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500



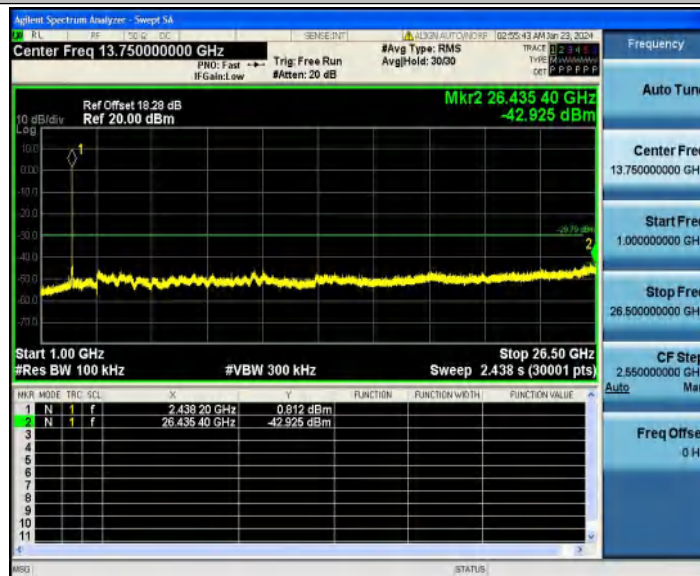
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



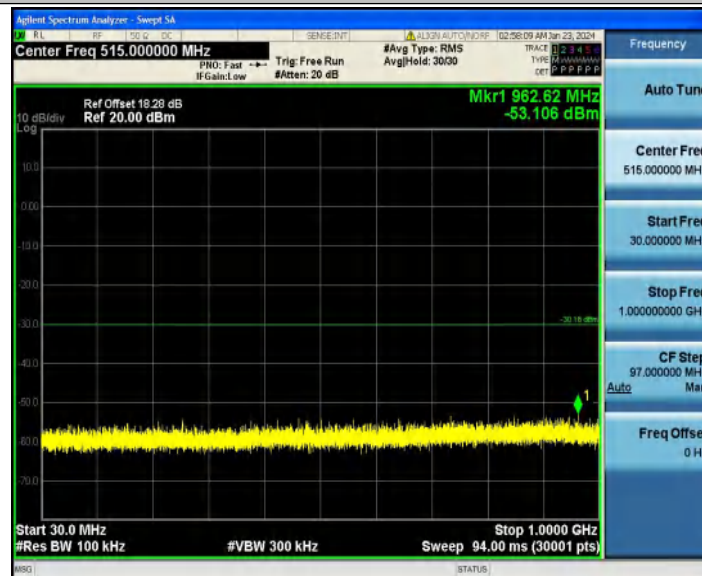
11B_Ant1_2437_1000~26500



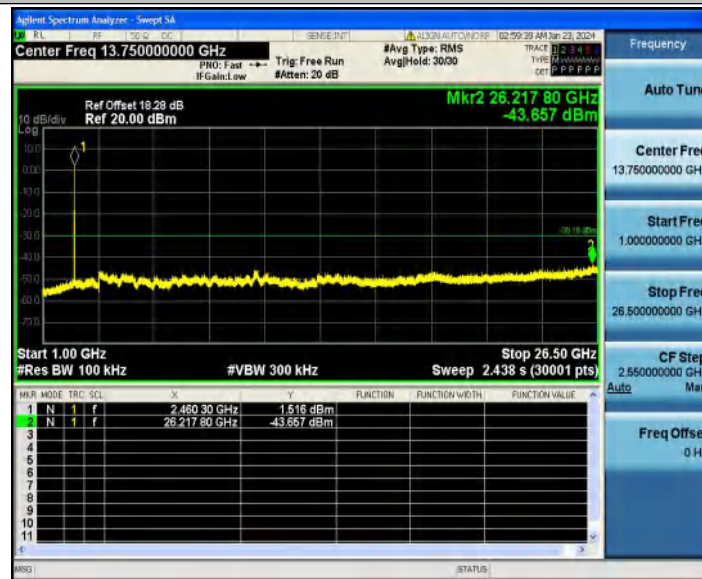
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



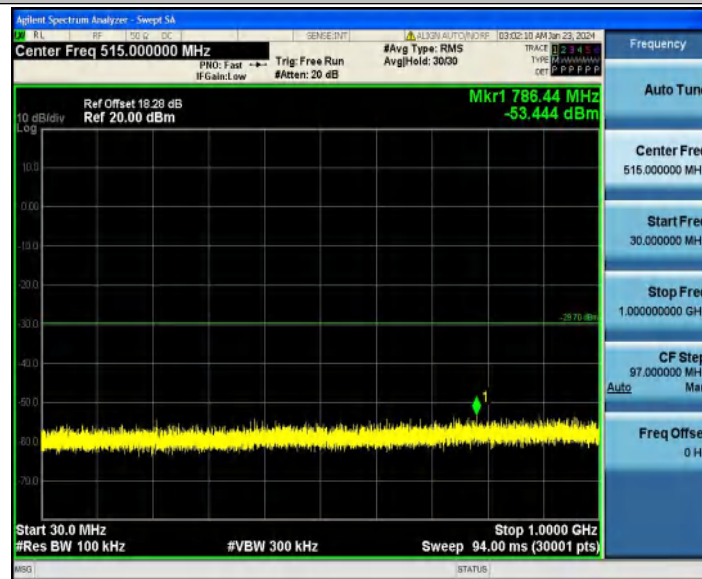
11B_Ant1_2462_1000~26500



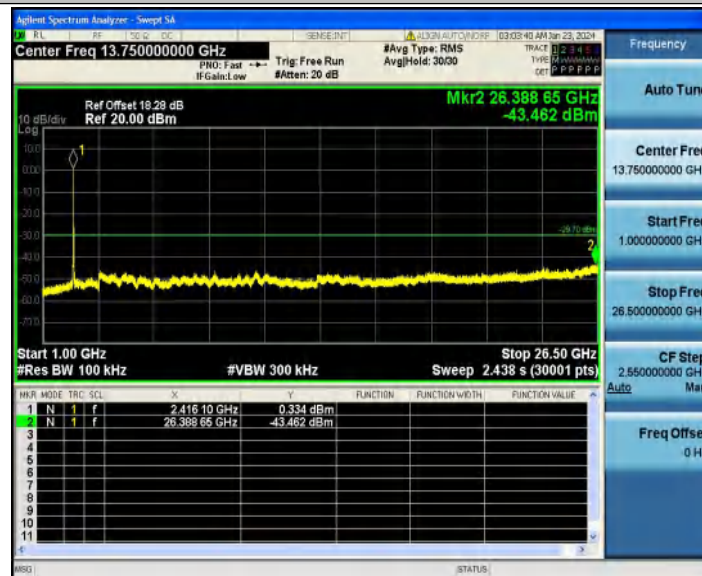
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



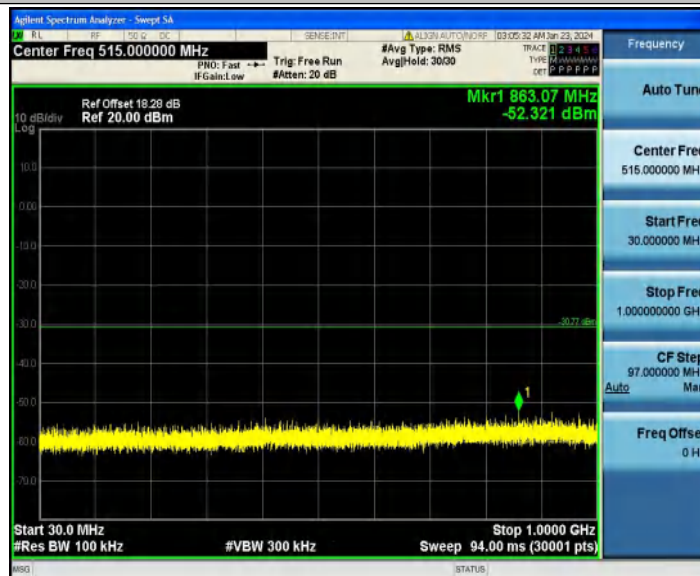
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



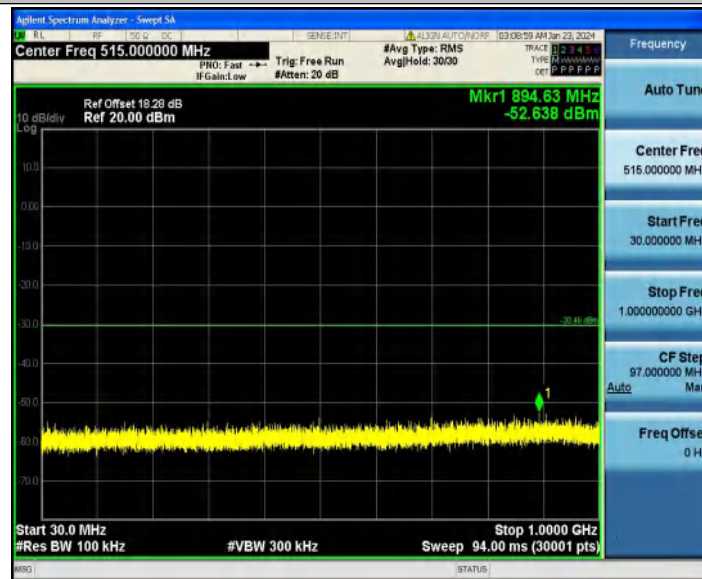
11G_Ant1_2437_1000~26500



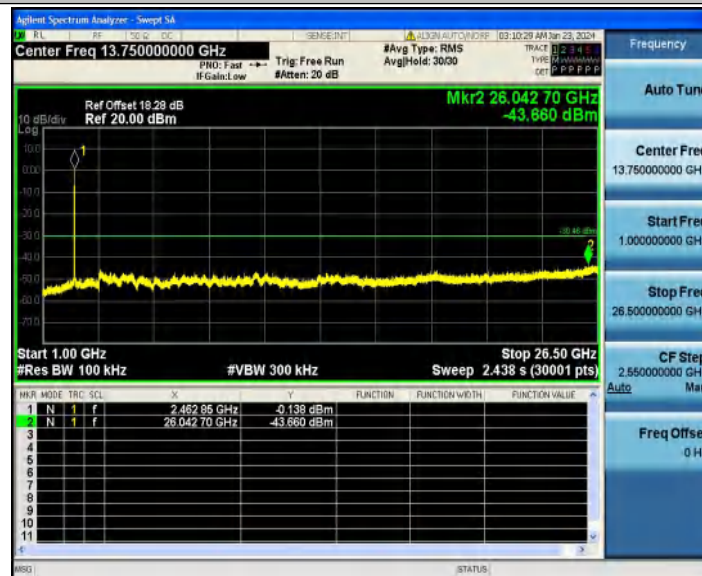
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



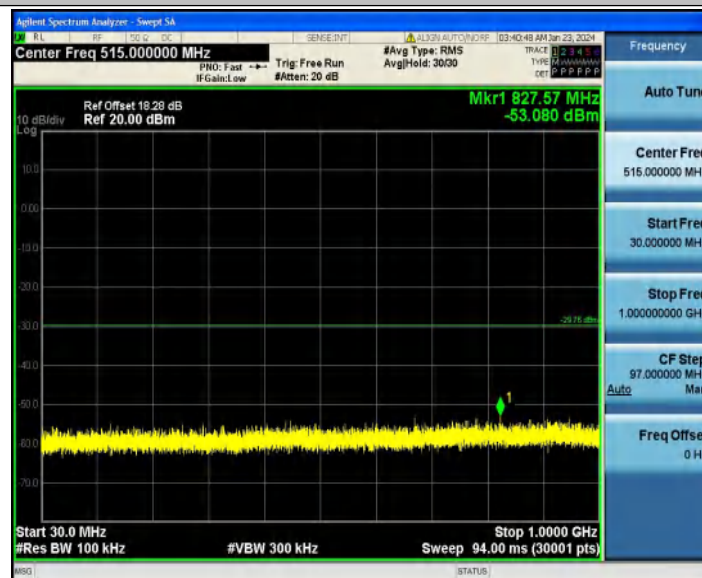
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



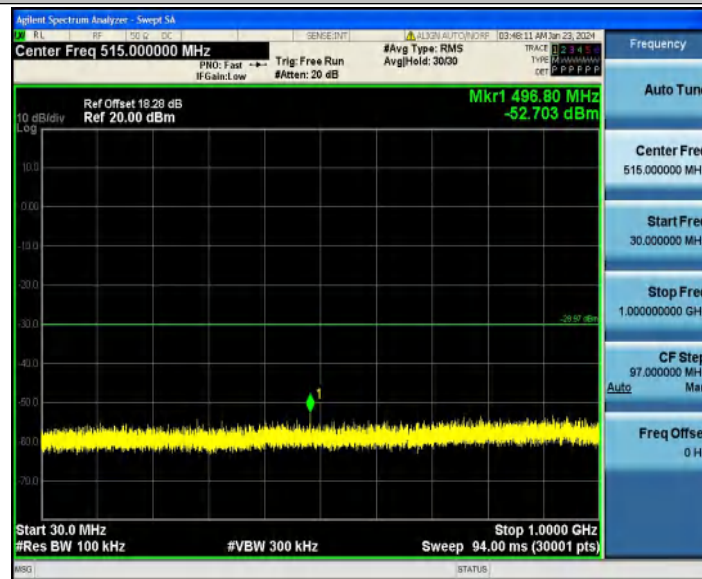
11N20SISO_Ant1_2412_1000~26500



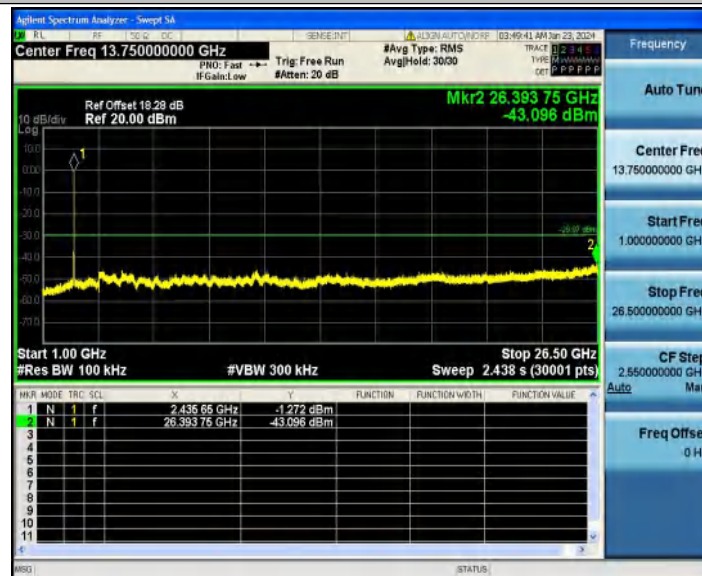
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



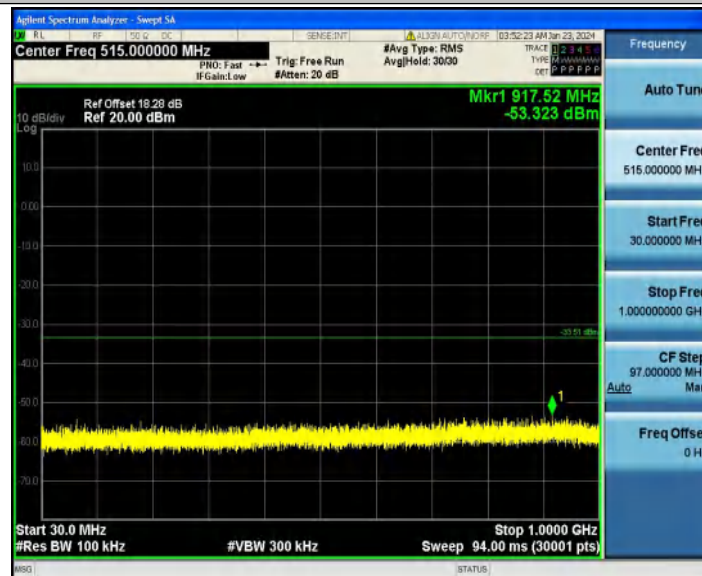
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000





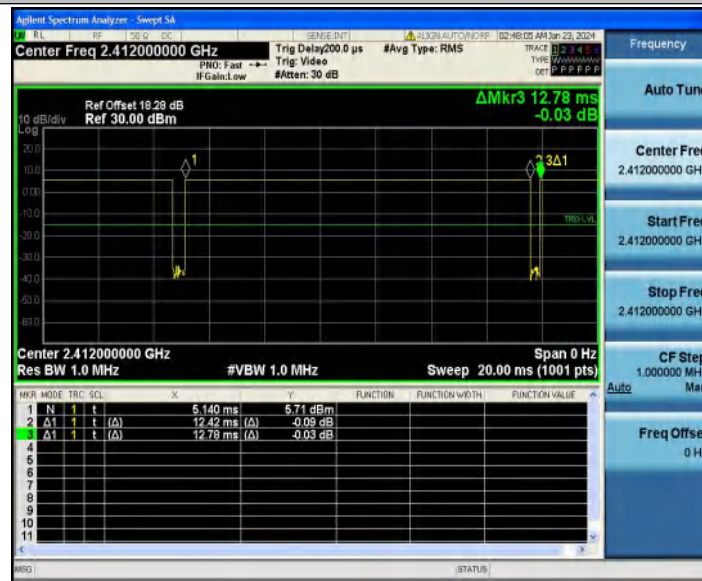
Appendix G: Duty Cycle

Test Result

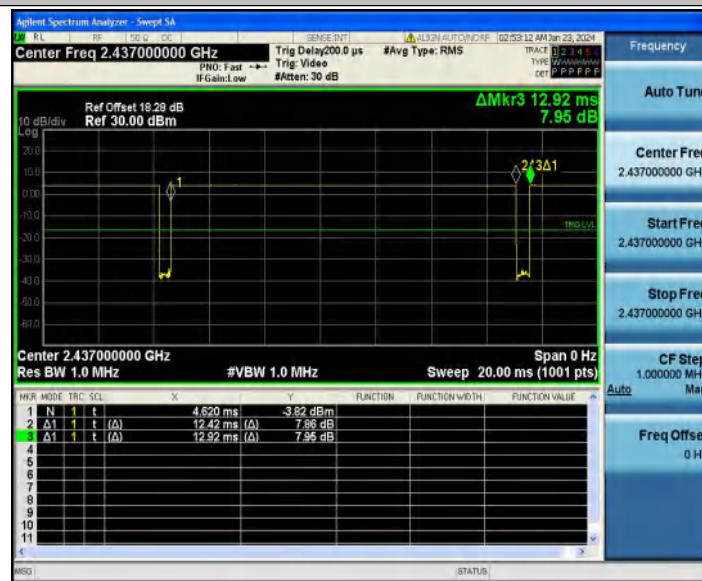
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.78	97.18	---	---
		2437	12.42	12.92	96.13	---	---
		2462	12.42	12.80	97.03	---	---
11G	Ant1	2412	0.25	0.47	53.19	---	---
		2437	0.25	0.48	52.08	---	---
		2462	0.25	0.47	53.19	---	---
11N20SISO	Ant1	2412	1.92	2.12	90.57	---	---
		2437	1.93	2.12	91.04	---	---
		2462	1.93	2.15	89.77	---	---

Test Graphs

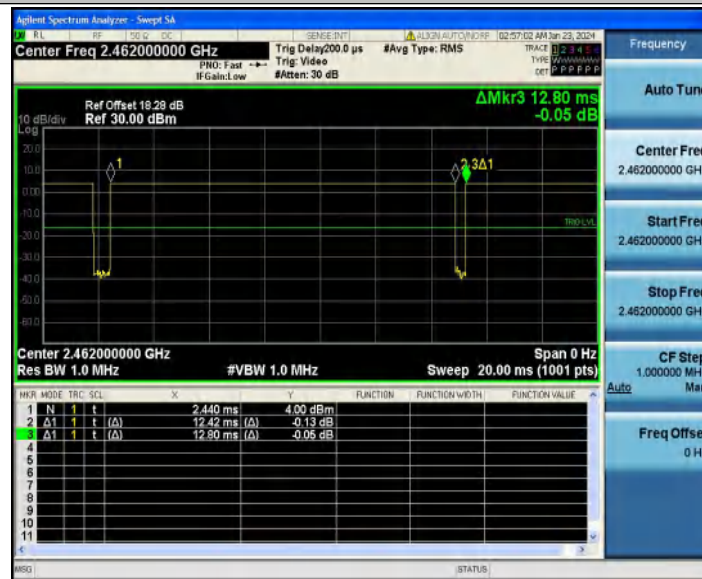
11B_Ant1_2412



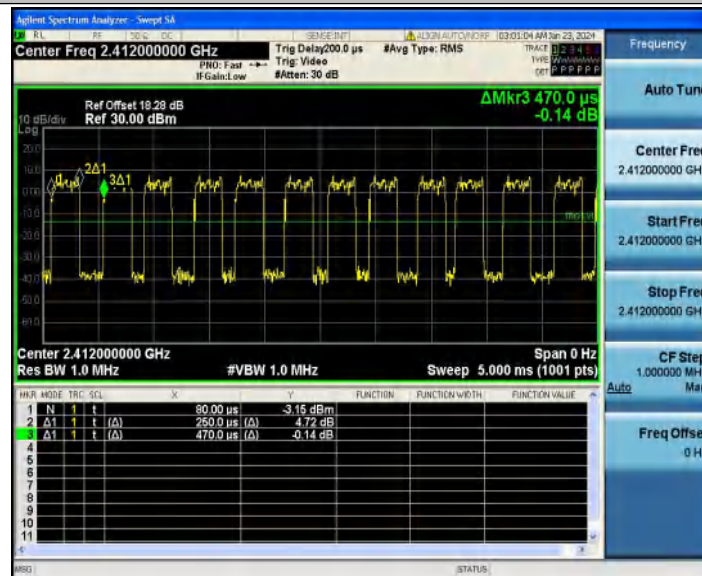
11B_Ant1_2437



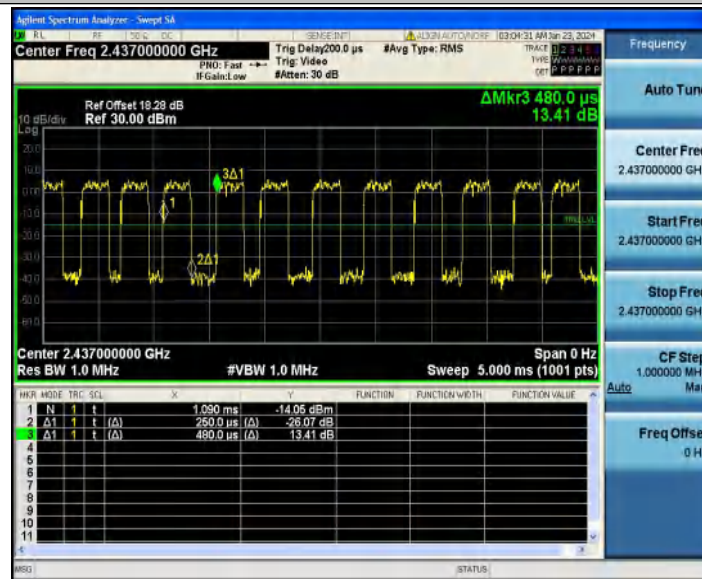
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462

