

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: T2 Max

FCC ID: 2A7PIT2MAX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test #JobTitle:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

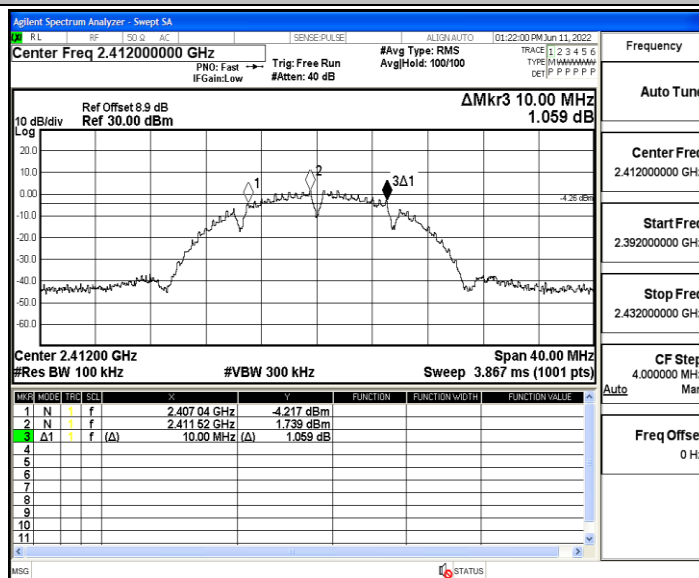
Appendix A: DTS Bandwidth

Test Result

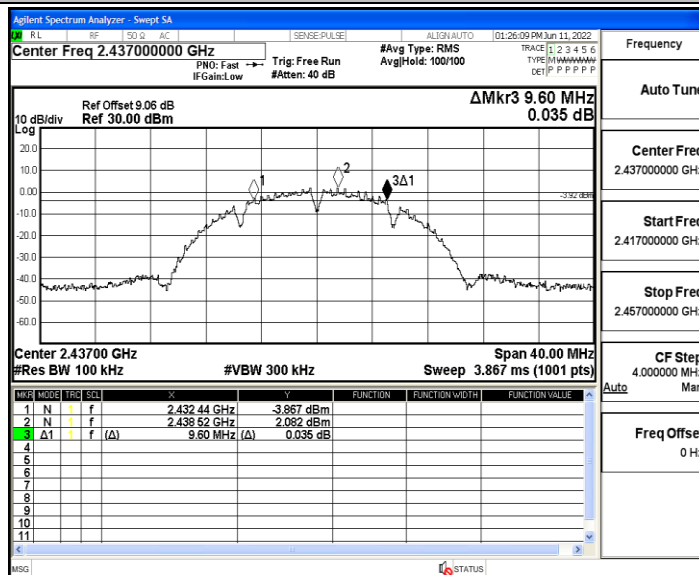
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.040	2417.040	0.5	PASS
		2437	9.600	2432.440	2442.040	0.5	PASS
		2462	9.000	2457.480	2466.480	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.280	2403.520	2420.800	0.5	PASS
		2437	16.640	2428.520	2445.160	0.5	PASS
		2462	17.040	2453.480	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.280	2434.480	2469.760	0.5	PASS

Test Graphs

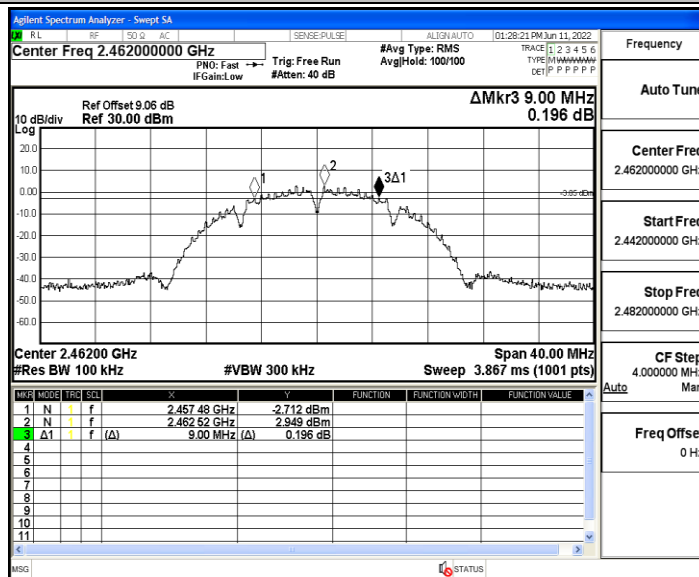
11B_Ant1_2412



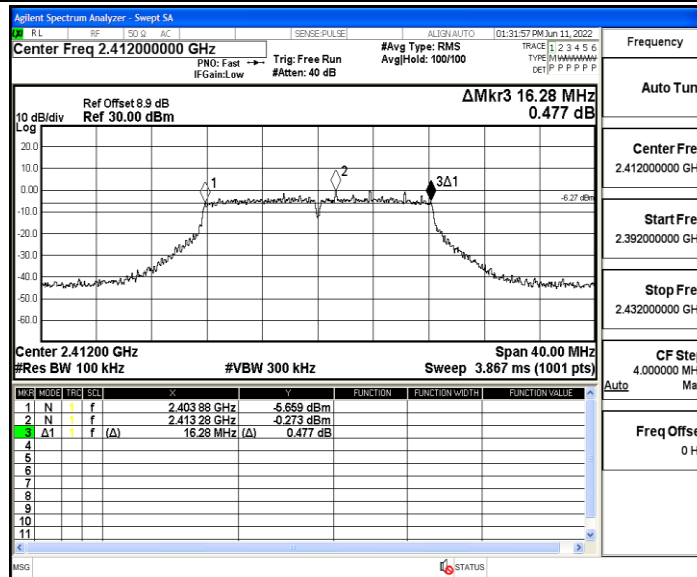
11B_Ant1_2437



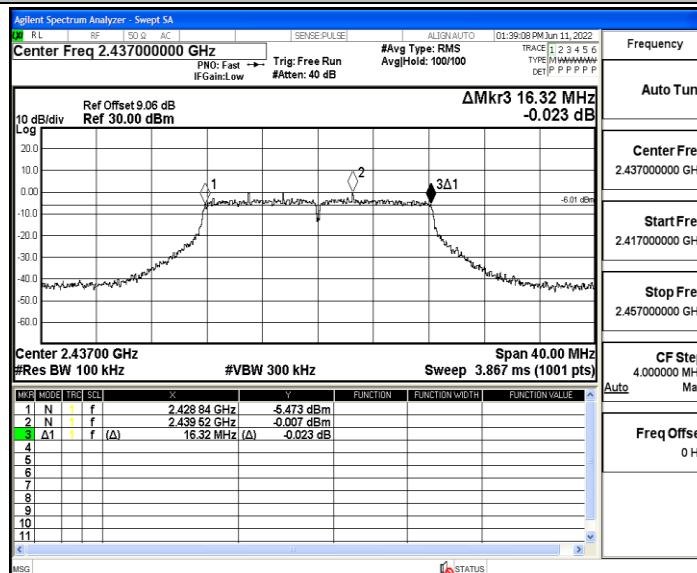
11B_Ant1_2462



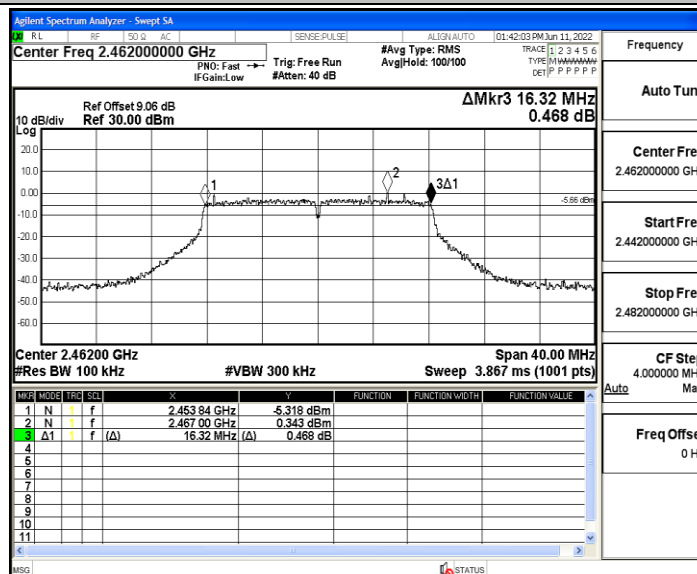
11G_Ant1_2412



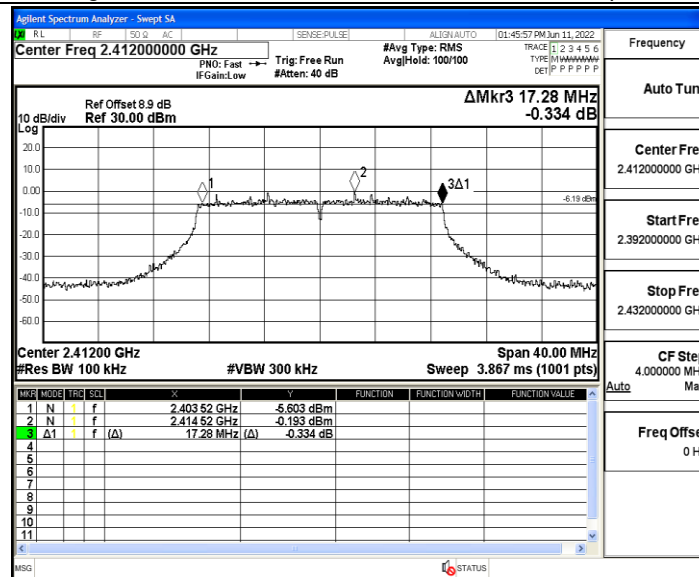
11G_Ant1_2437



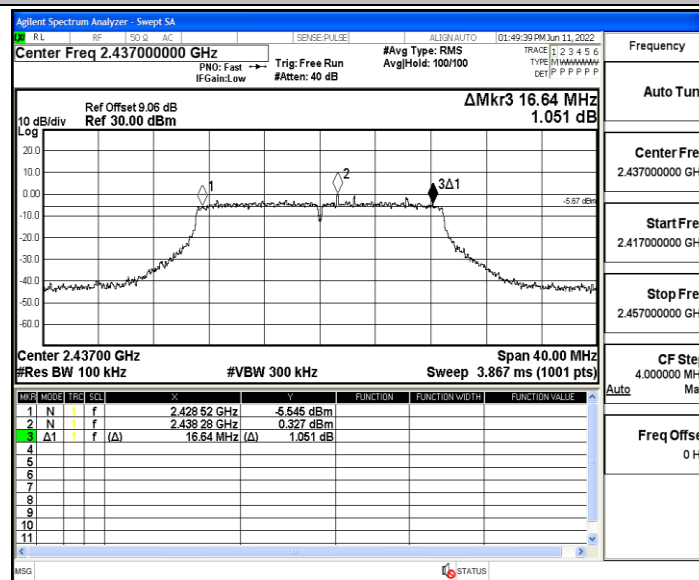
11G_Ant1_2462



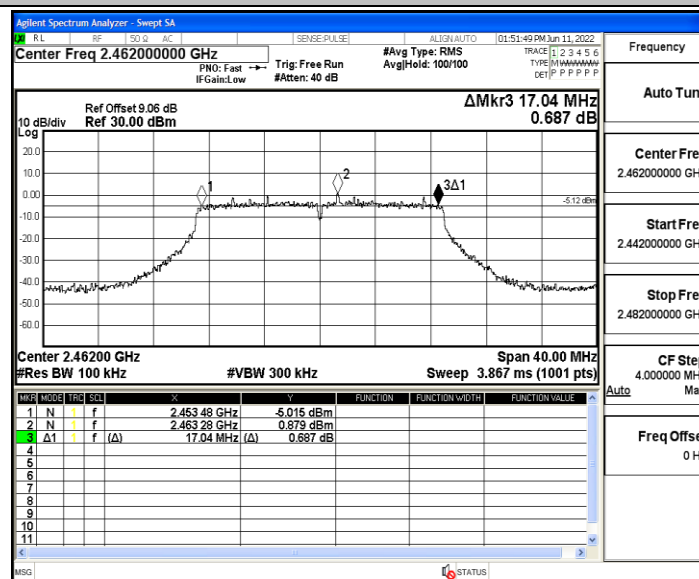
11N20SISO_Ant1_2412



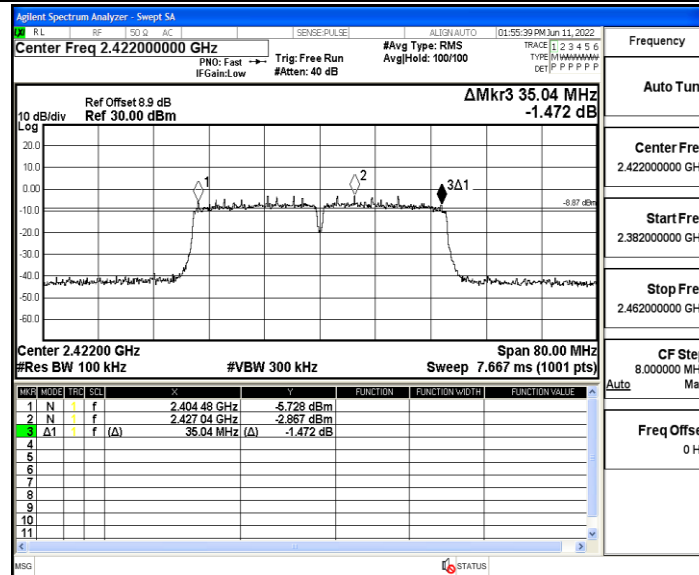
11N20SISO_Ant1_2437



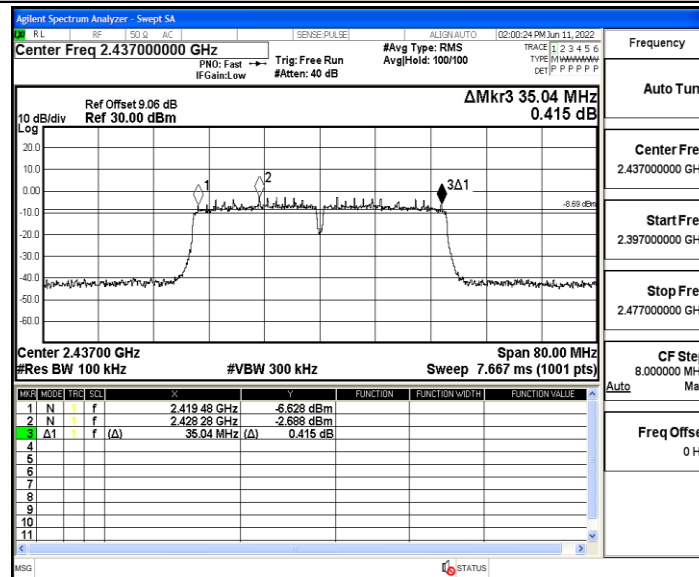
11N20SISO_Ant1_2462



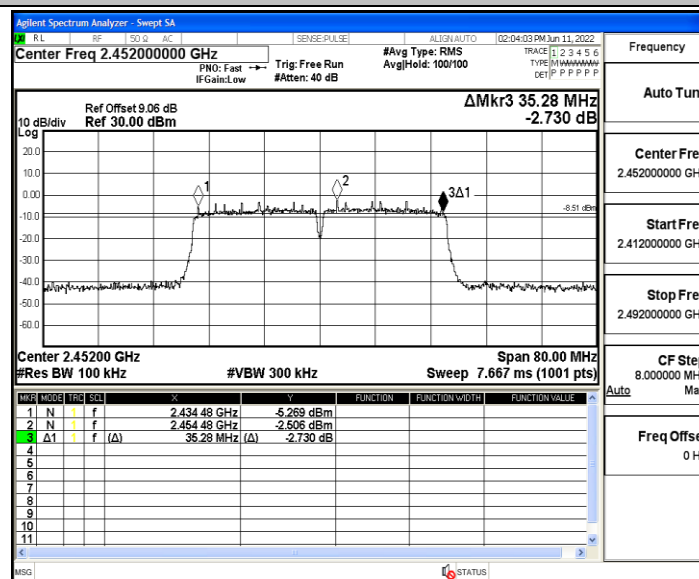
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

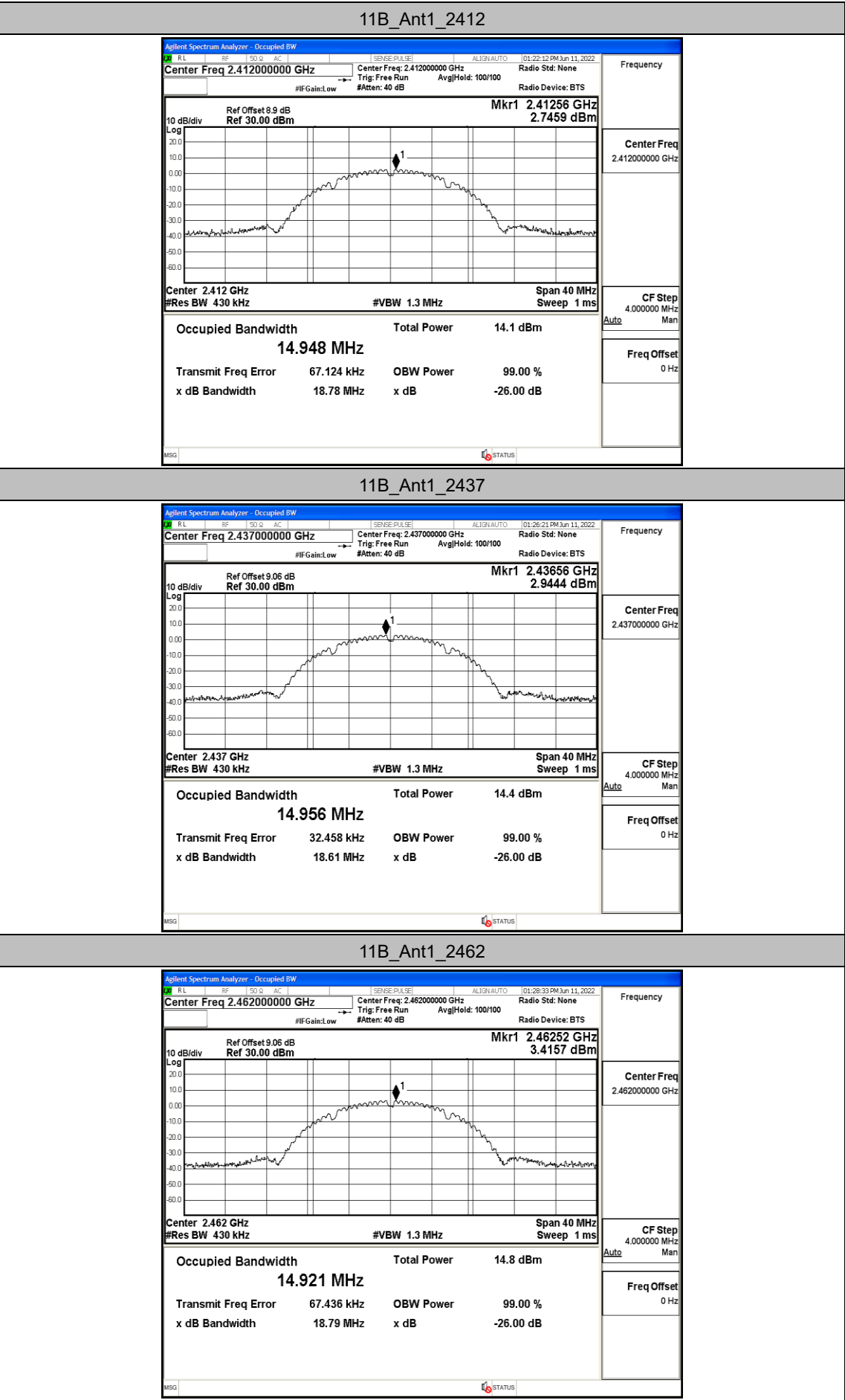


Appendix B: Occupied Channel Bandwidth

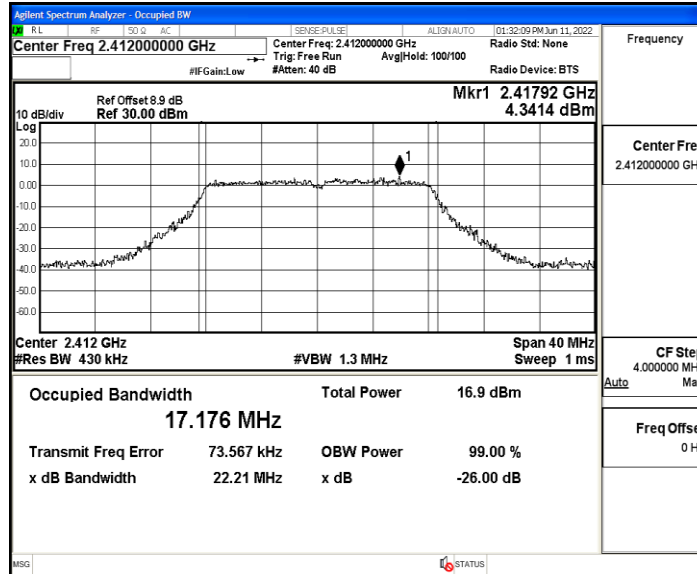
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.948	2404.593	2419.541	---	---
		2437	14.956	2429.554	2444.510	---	---
		2462	14.921	2454.607	2469.528	---	---
11G	Ant1	2412	17.176	2403.486	2420.662	---	---
		2437	17.089	2428.448	2445.537	---	---
		2462	17.045	2453.546	2470.591	---	---
11N20SISO	Ant1	2412	18.137	2402.987	2421.124	---	---
		2437	18.260	2427.912	2446.172	---	---
		2462	18.295	2452.929	2471.224	---	---
11N40SISO	Ant1	2422	35.961	2404.096	2440.057	---	---
		2437	35.946	2419.141	2455.087	---	---
		2452	35.950	2434.147	2470.097	---	---

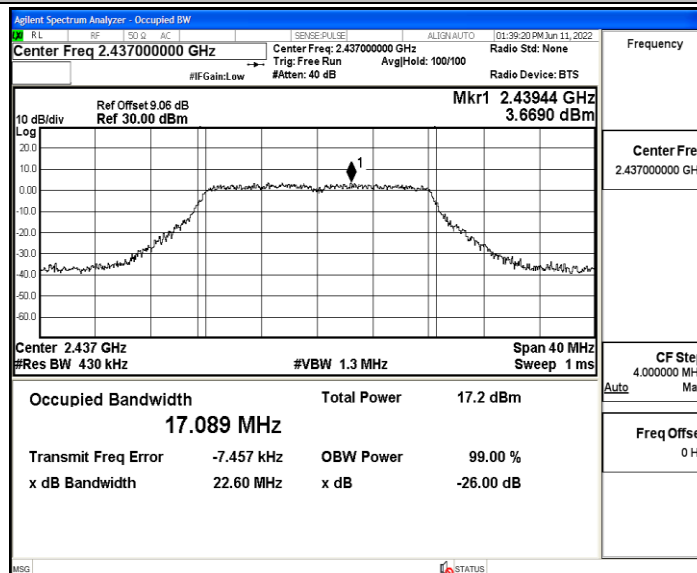
Test Graphs



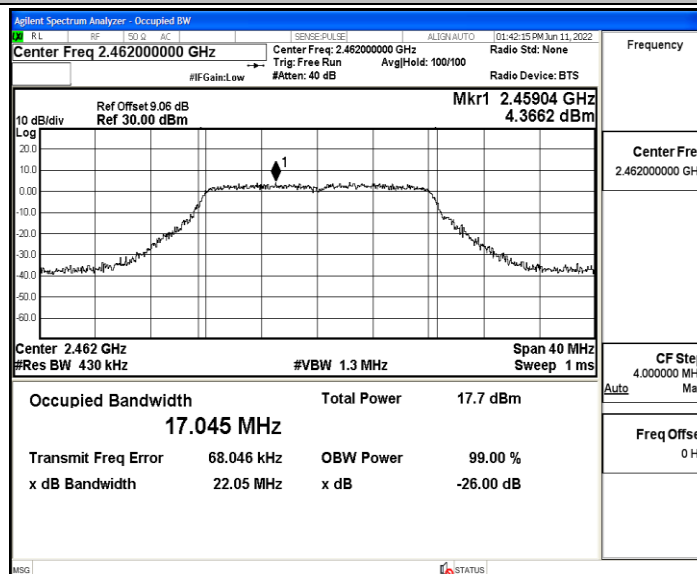
11G_Ant1_2412



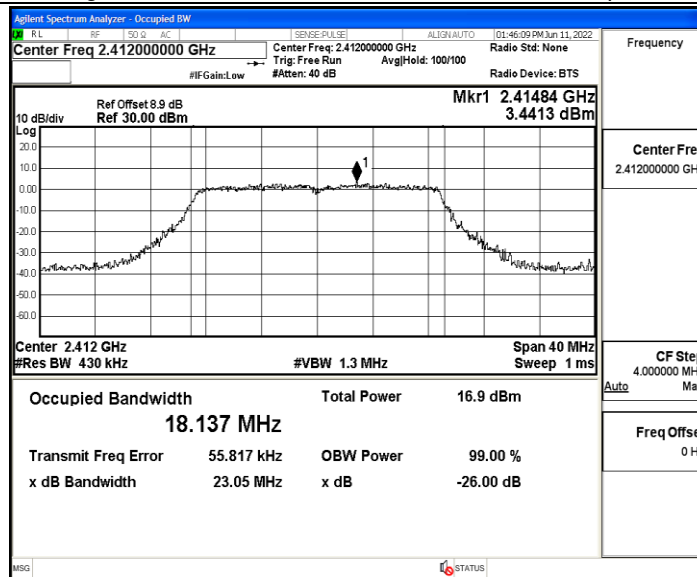
11G_Ant1_2437



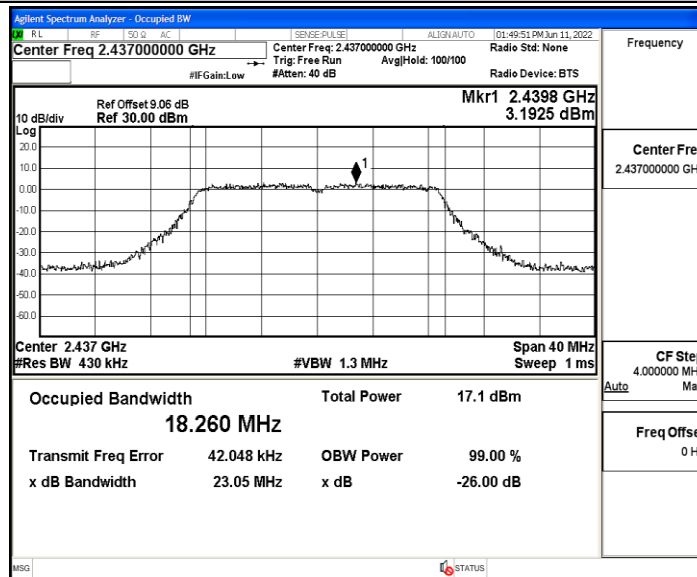
11G_Ant1_2462



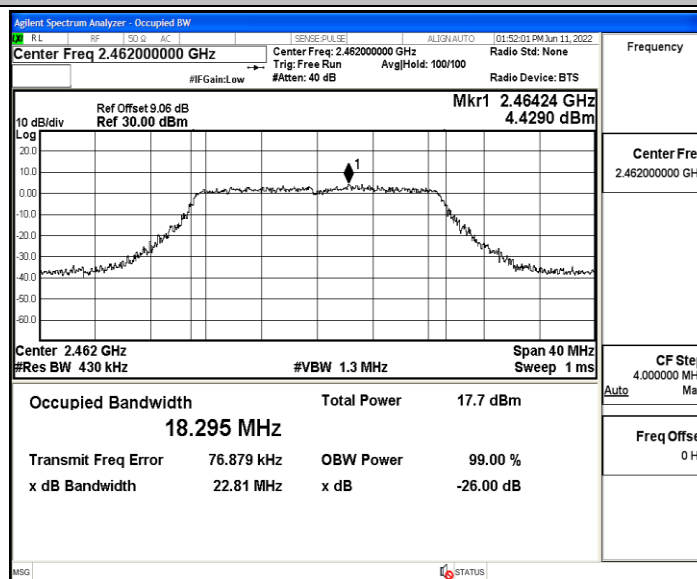
11N20SISO_Ant1_2412



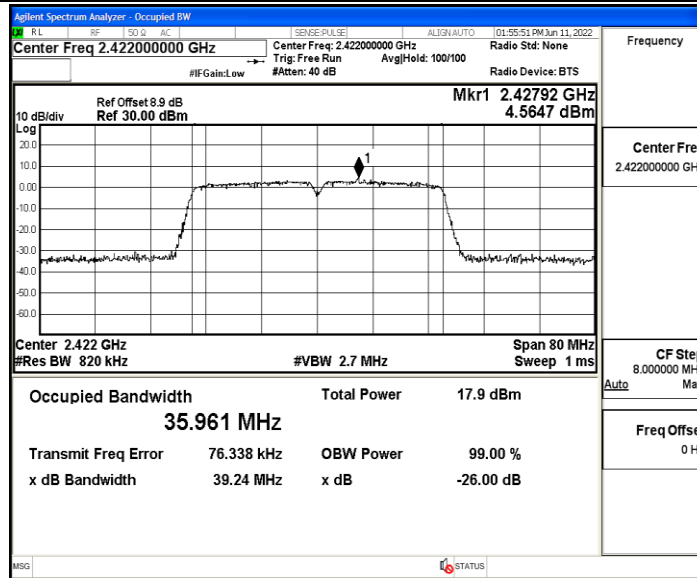
11N20SISO_Ant1_2437



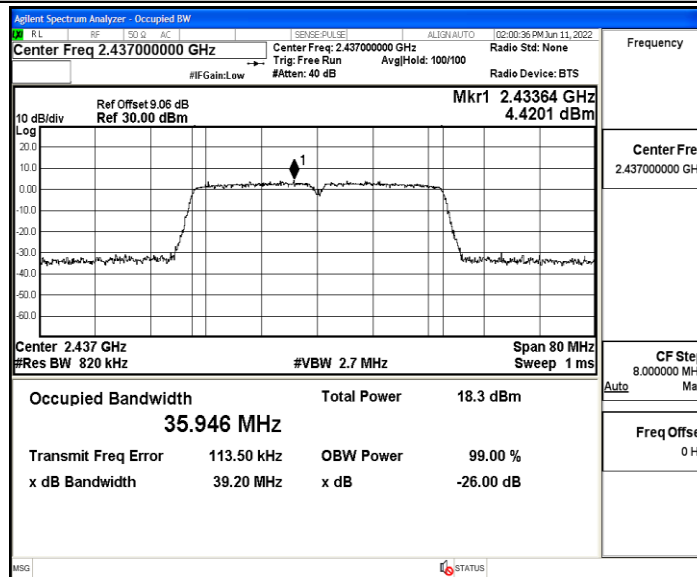
11N20SISO_Ant1_2462



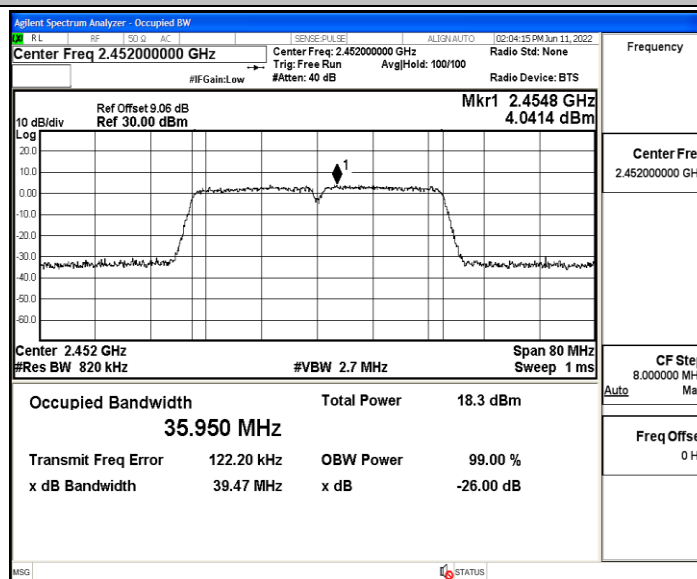
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	11.14	≤30.00	PASS
		2437	11.44	≤30.00	PASS
		2462	11.70	≤30.00	PASS
11G	Ant1	2412	10.96	≤30.00	PASS
		2437	11.28	≤30.00	PASS
		2462	11.82	≤30.00	PASS
11N20SISO	Ant1	2412	10.94	≤30.00	PASS
		2437	11.33	≤30.00	PASS
		2462	11.86	≤30.00	PASS
11N40SISO	Ant1	2422	11.23	≤30.00	PASS
		2437	11.36	≤30.00	PASS
		2452	11.77	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

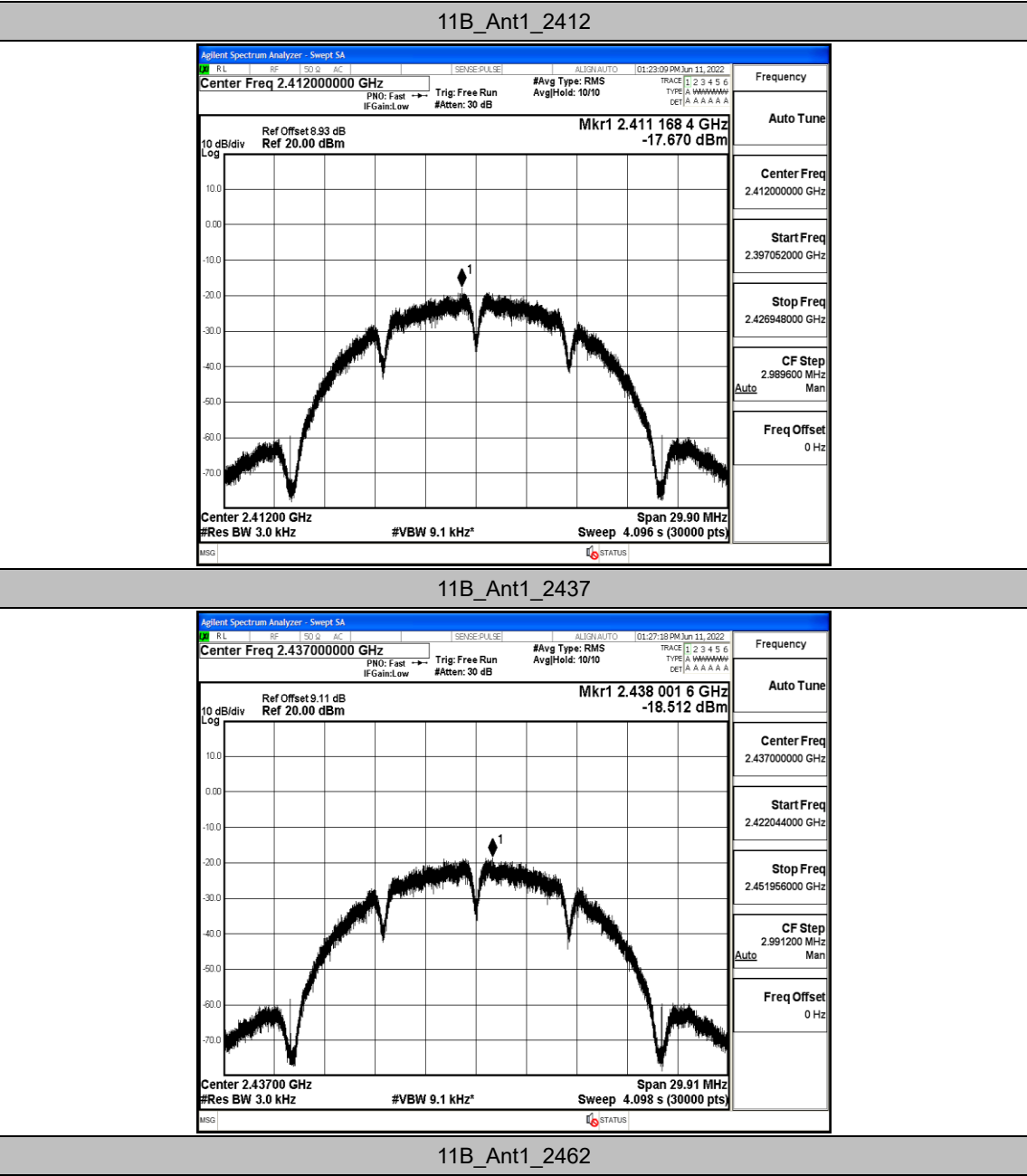
Appendix D: Maximum power spectral density

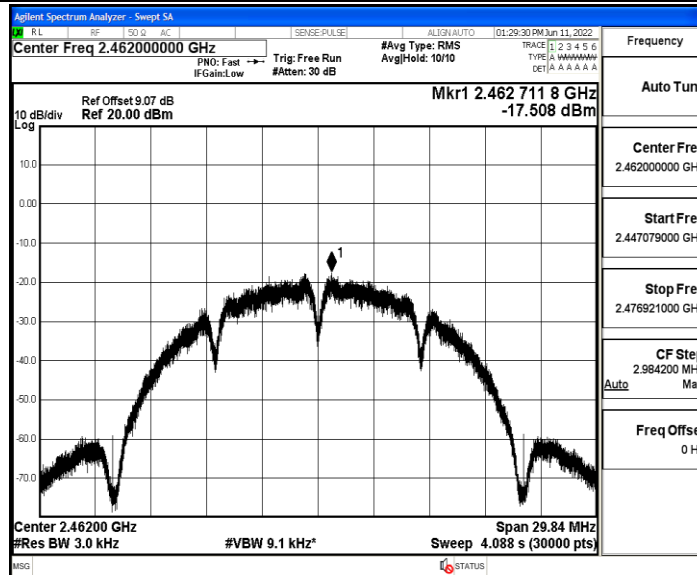
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.67	≤8.00	PASS
		2437	-18.51	≤8.00	PASS
		2462	-17.51	≤8.00	PASS
11G	Ant1	2412	-19.47	≤8.00	PASS
		2437	-18.01	≤8.00	PASS
		2462	-18.03	≤8.00	PASS
11N20SISO	Ant1	2412	-19.29	≤8.00	PASS
		2437	-18.36	≤8.00	PASS
		2462	-19.22	≤8.00	PASS
11N40SISO	Ant1	2422	-19.91	≤8.00	PASS
		2437	-20.93	≤8.00	PASS
		2452	-21.24	≤8.00	PASS

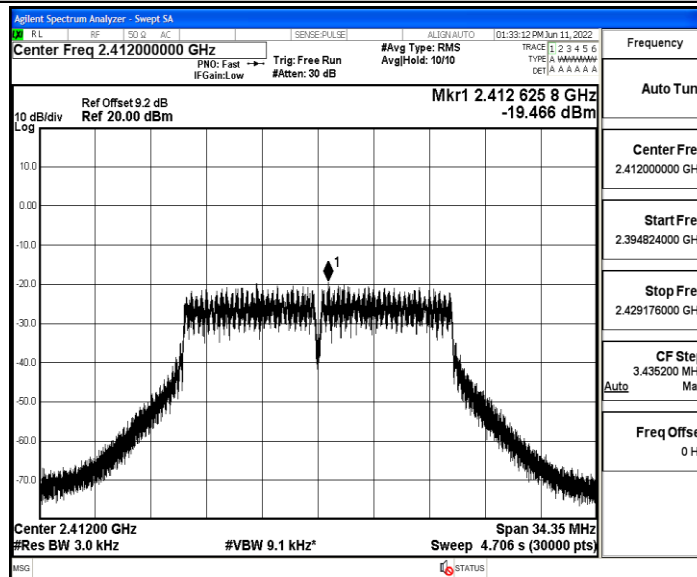
Note: The Duty Cycle Factor is compensated in the test result.

Test Graphs

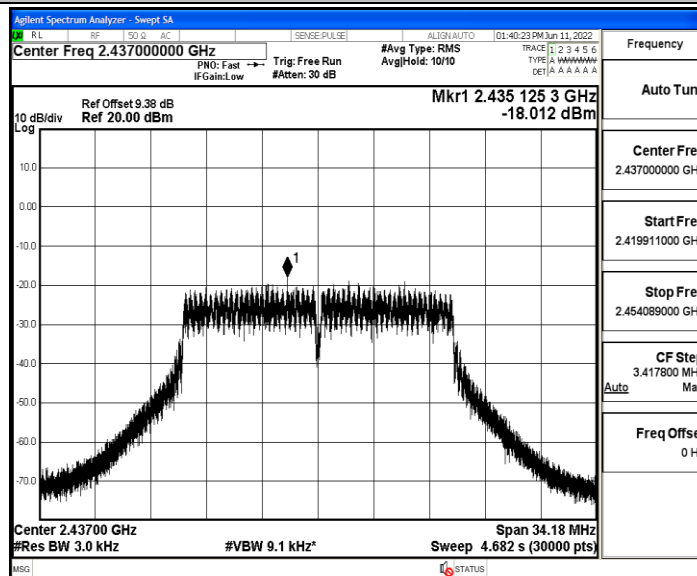




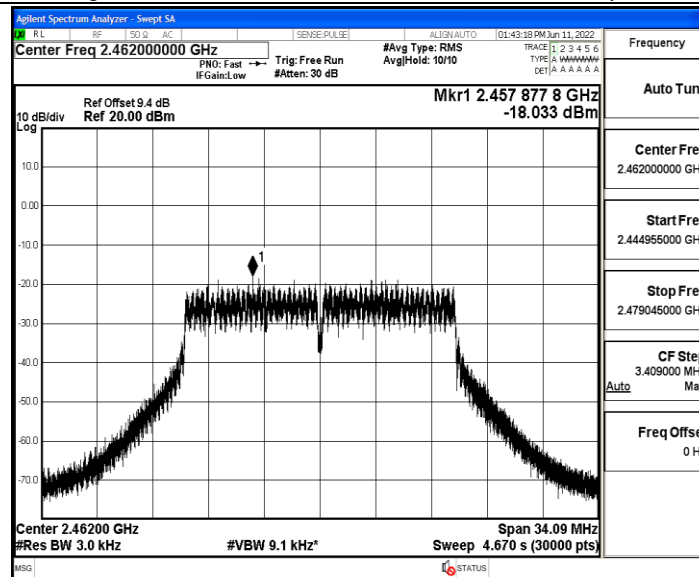
11G_Ant1_2412



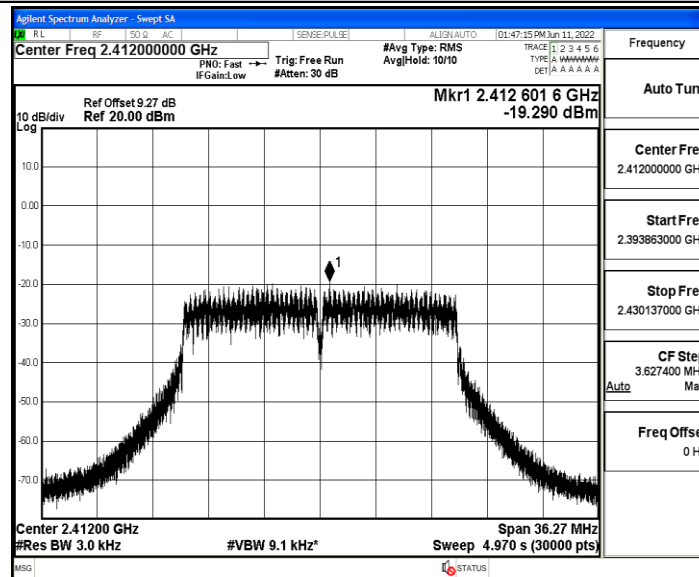
11G_Ant1_2437



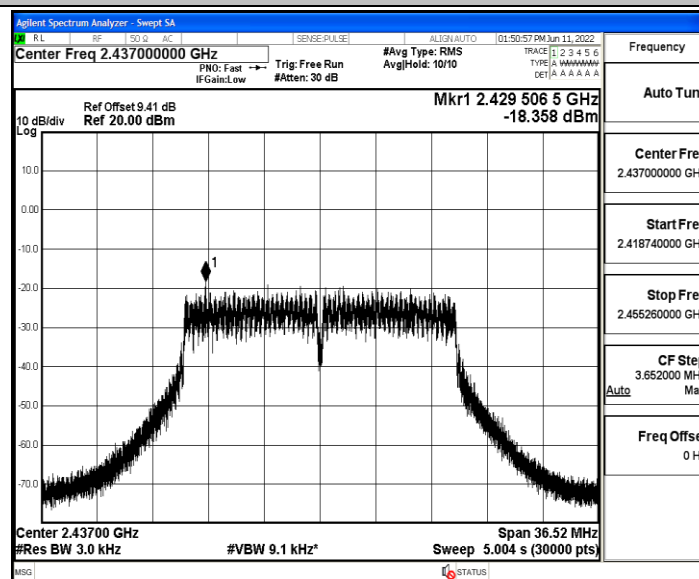
11G_Ant1_2462



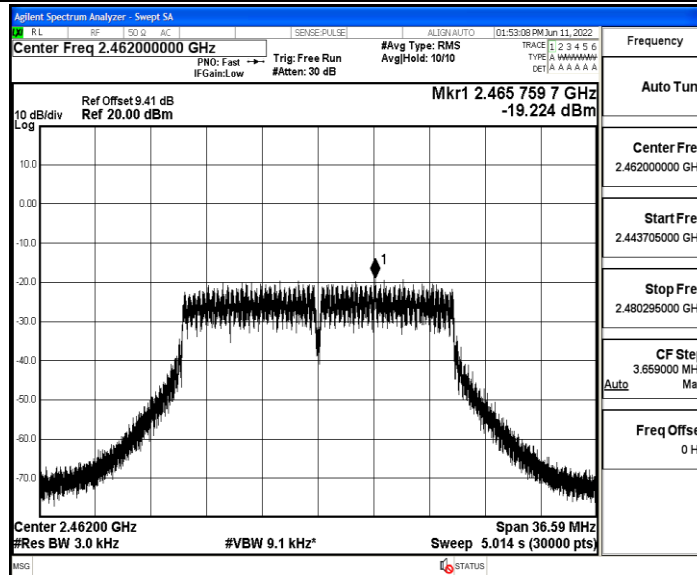
11N20SISO_Ant1_2412



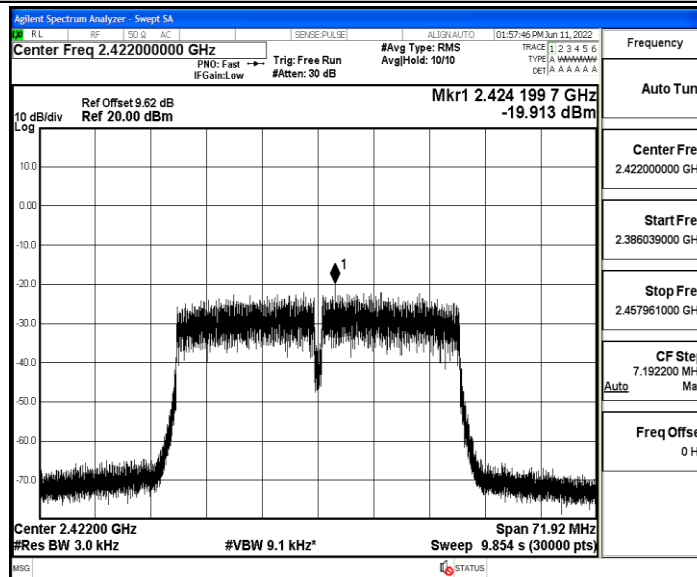
11N20SISO_Ant1_2437



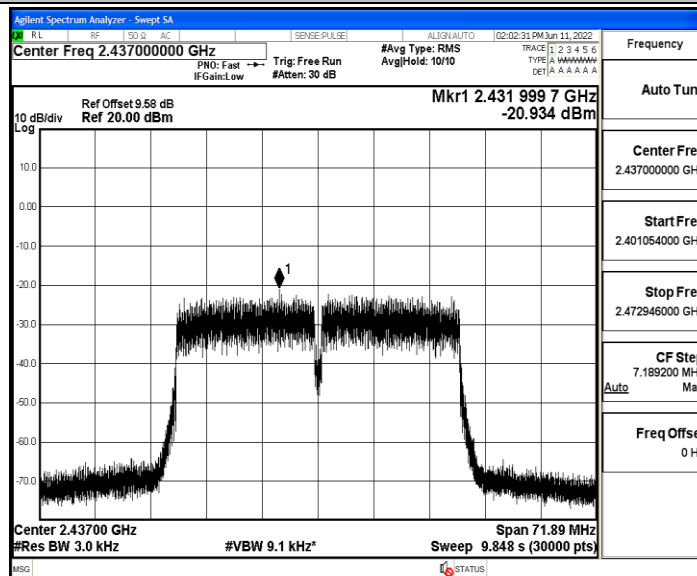
11N20SISO_Ant1_2462



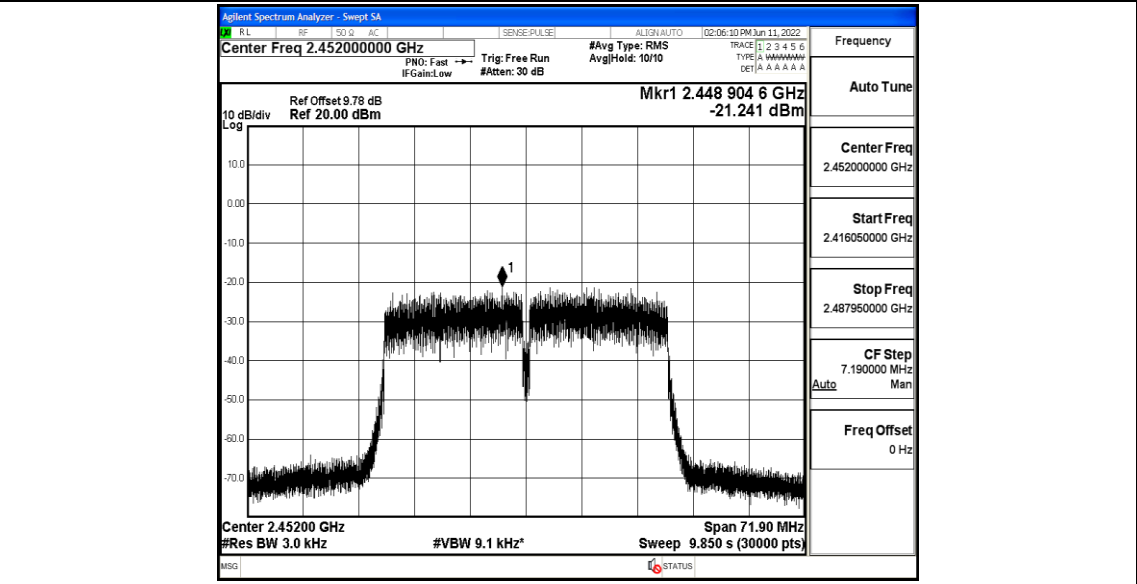
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



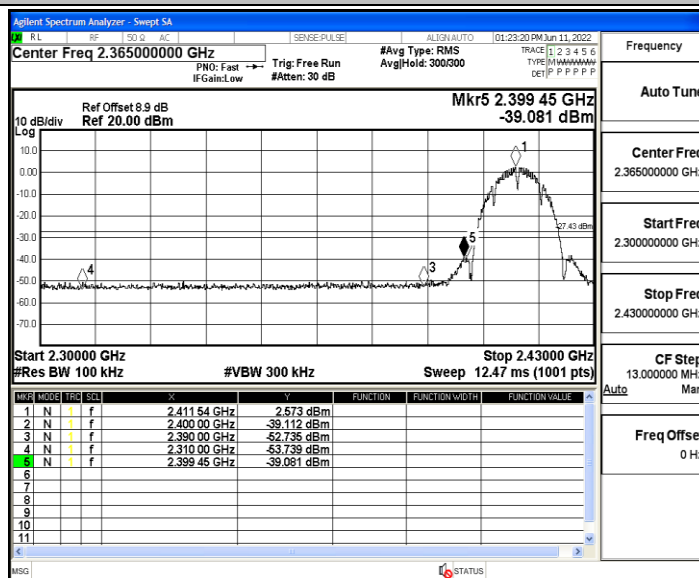
Appendix E: Band edge measurements

Test Result

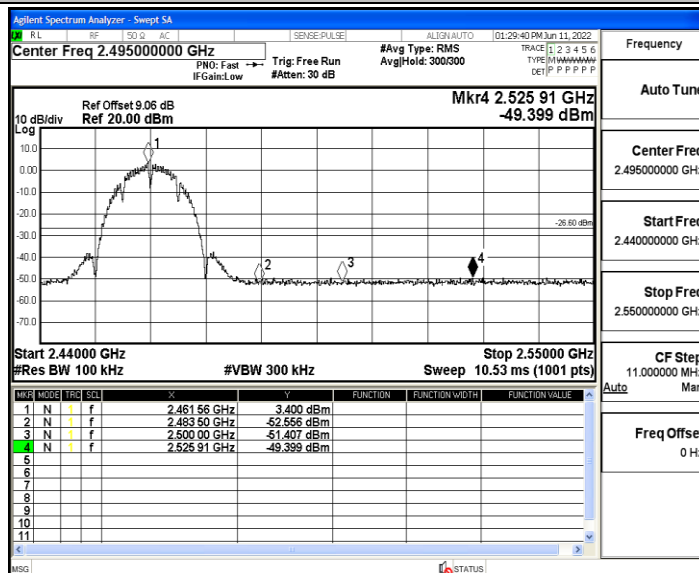
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.57	-39.08	≤ -27.43	PASS
		High	2462	3.40	-49.4	≤ -26.6	PASS
11G	Ant1	Low	2412	-0.20	-35.39	≤ -30.2	PASS
		High	2462	0.32	-48.07	≤ -29.68	PASS
11N20SISO	Ant1	Low	2412	-0.21	-36.1	≤ -30.21	PASS
		High	2462	0.71	-48.34	≤ -29.29	PASS
11N40SISO	Ant1	Low	2422	-2.70	-42.15	≤ -32.7	PASS
		High	2452	-2.47	-44.95	≤ -32.47	PASS

Test Graphs

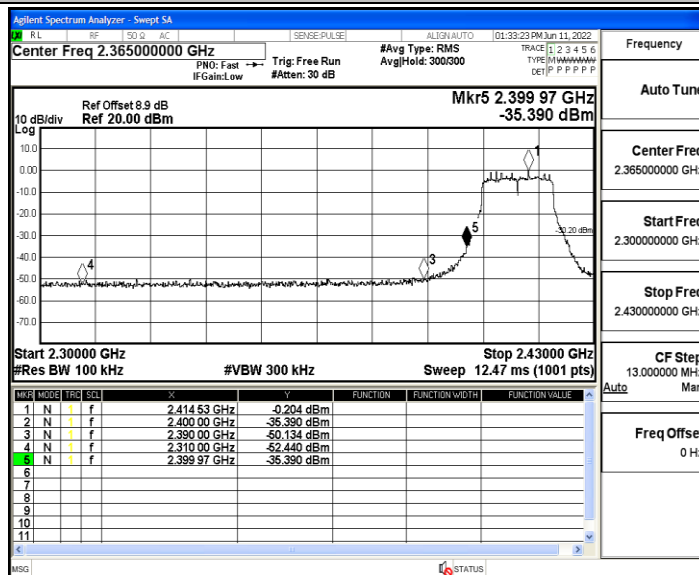
11B_Ant1_Low_2412



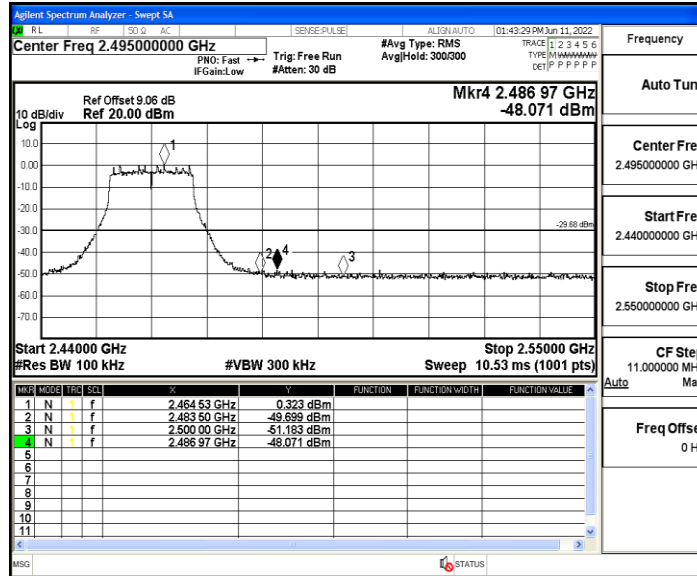
11B_Ant1_High_2462



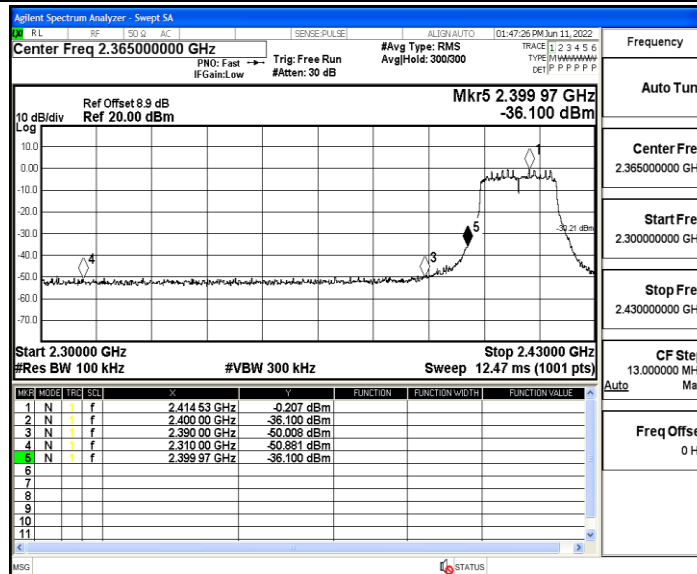
11G_Ant1_Low_2412



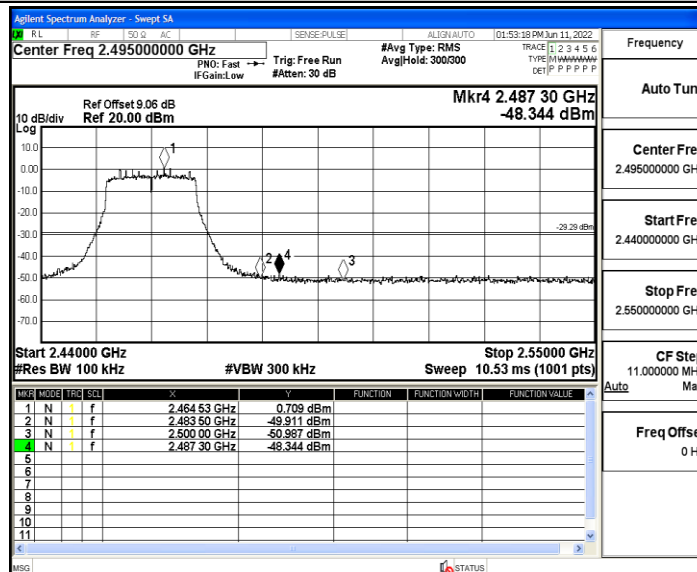
11G_Ant1_High_2462



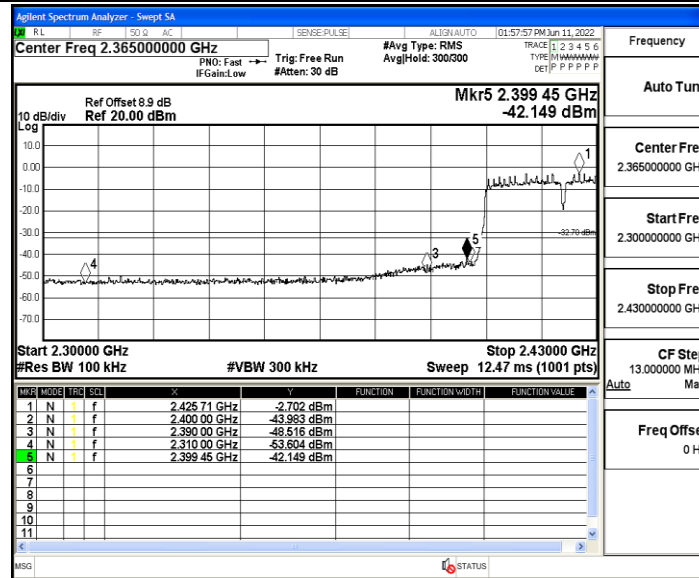
11N20SISO_Ant1_Low_2412



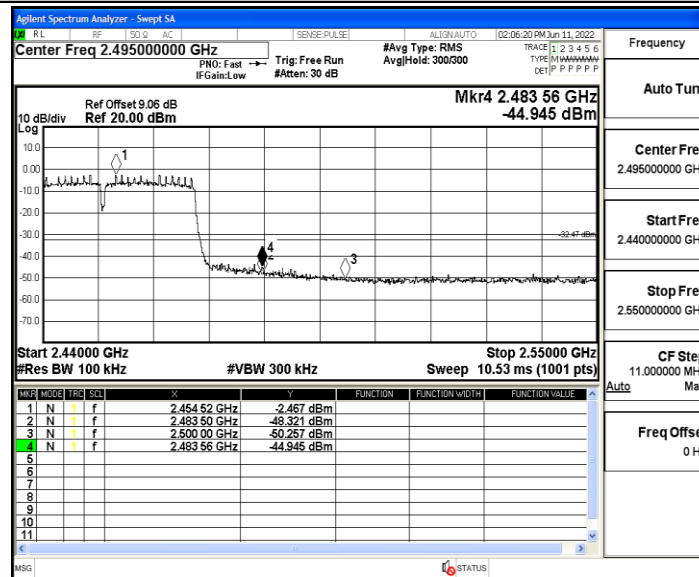
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

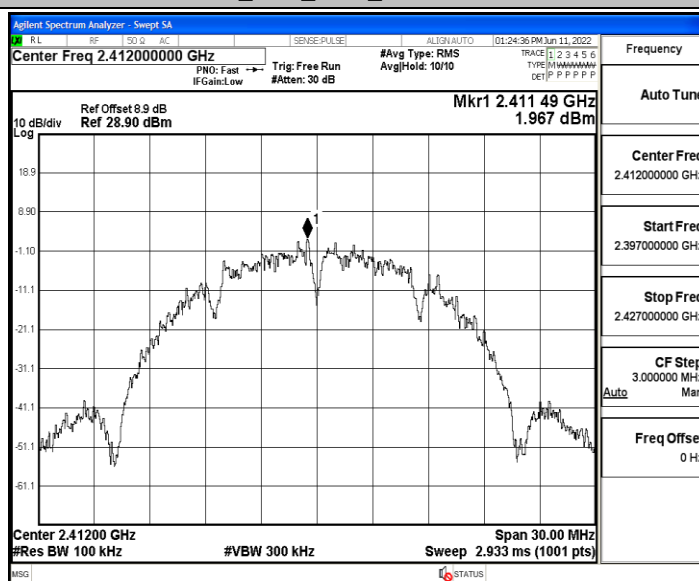


Appendix F: Conducted Spurious Emission

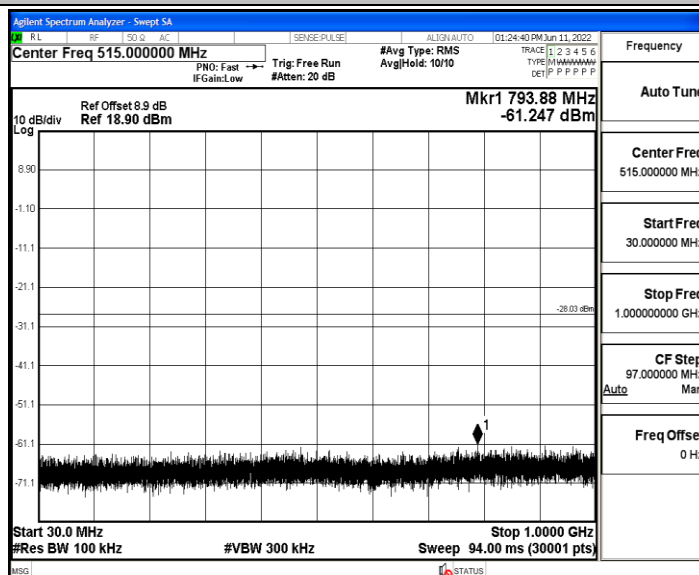
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.97	1.97	---	PASS
			30~1000	1.97	-61.25	≤-28.03	PASS
			1000~26500	1.97	-51.24	≤-28.03	PASS
		2437	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-61.2	≤-29.79	PASS
			1000~26500	0.21	-50.82	≤-29.79	PASS
		2462	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-60.93	≤-27.75	PASS
			1000~26500	2.25	-51.41	≤-27.75	PASS
11G	Ant1	2412	Reference	-2.69	-2.69	---	PASS
			30~1000	-2.69	-61.62	≤-32.69	PASS
			1000~26500	-2.69	-50.78	≤-32.69	PASS
		2437	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-61.46	≤-33.2	PASS
			1000~26500	-3.20	-51.48	≤-33.2	PASS
		2462	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-61.09	≤-29.53	PASS
			1000~26500	0.47	-50.43	≤-29.53	PASS
11N20SISO	Ant1	2412	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-61.81	≤-31.17	PASS
			1000~26500	-1.17	-51.37	≤-31.17	PASS
		2437	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-61.73	≤-30.56	PASS
			1000~26500	-0.56	-50.47	≤-30.56	PASS
		2462	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-61.29	≤-31.18	PASS
			1000~26500	-1.18	-50.45	≤-31.18	PASS
11N40SISO	Ant1	2422	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-61.47	≤-32.94	PASS
			1000~26500	-2.94	-50.74	≤-32.94	PASS
		2437	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-61.12	≤-33.79	PASS
			1000~26500	-3.79	-50.57	≤-33.79	PASS
		2452	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-61.7	≤-32.6	PASS
			1000~26500	-2.60	-50.61	≤-32.6	PASS

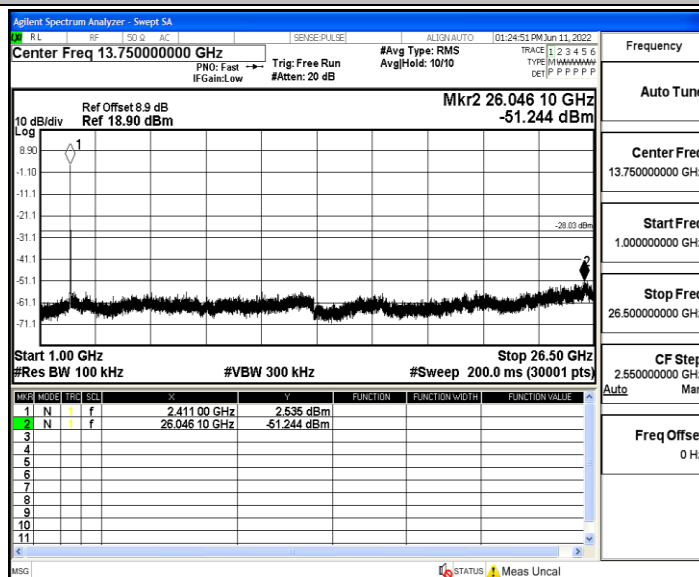
11B Ant1 2412 0~Reference



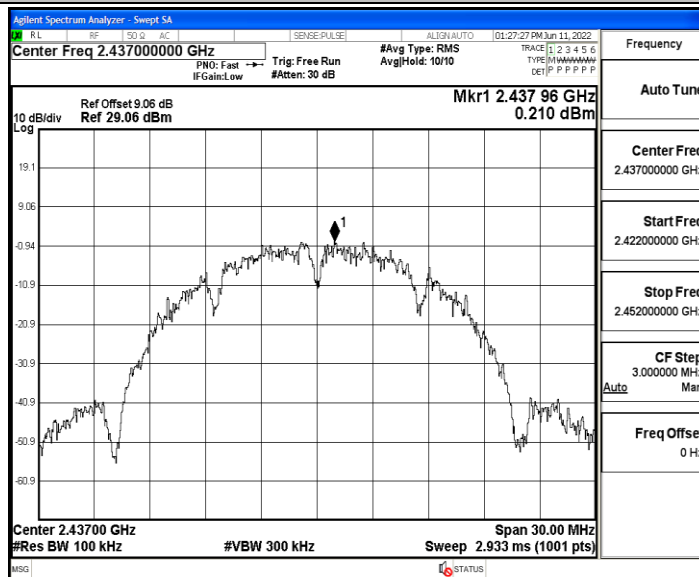
11B Ant1 2412 30~1000



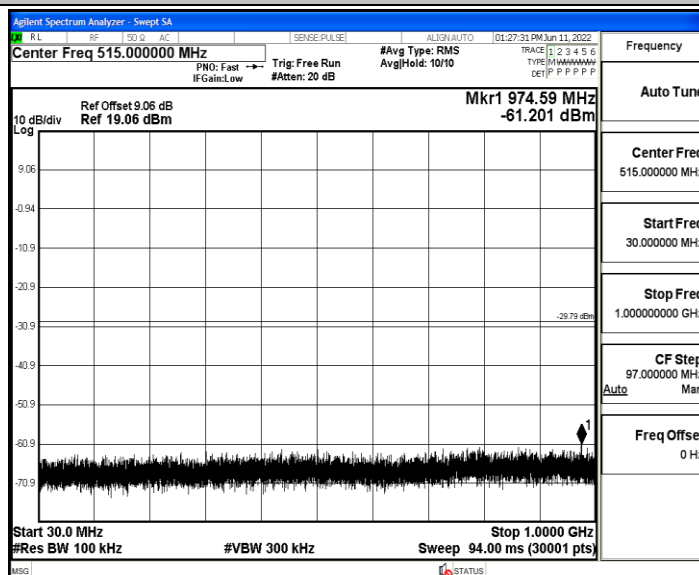
11B Ant1 2412 1000~26500



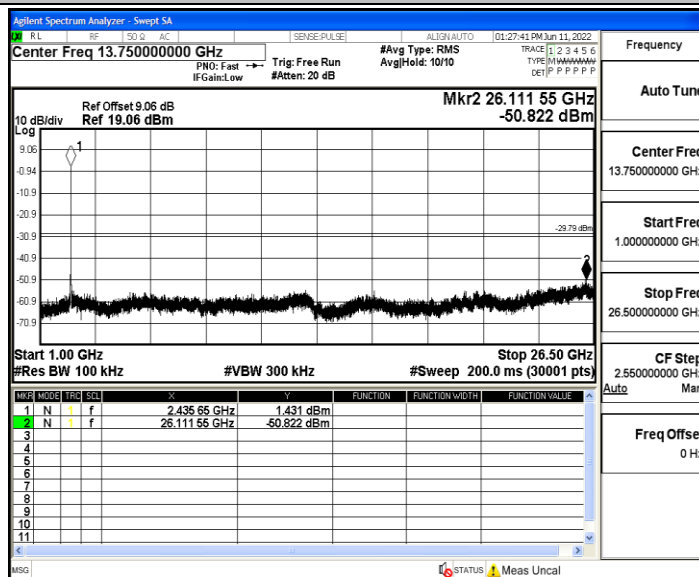
11B_Ant1_2437_0~Reference



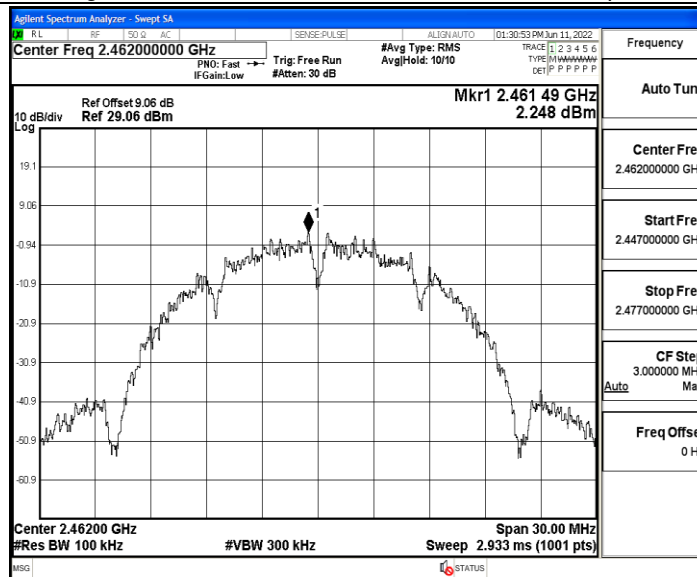
11B_Ant1_2437_30~1000



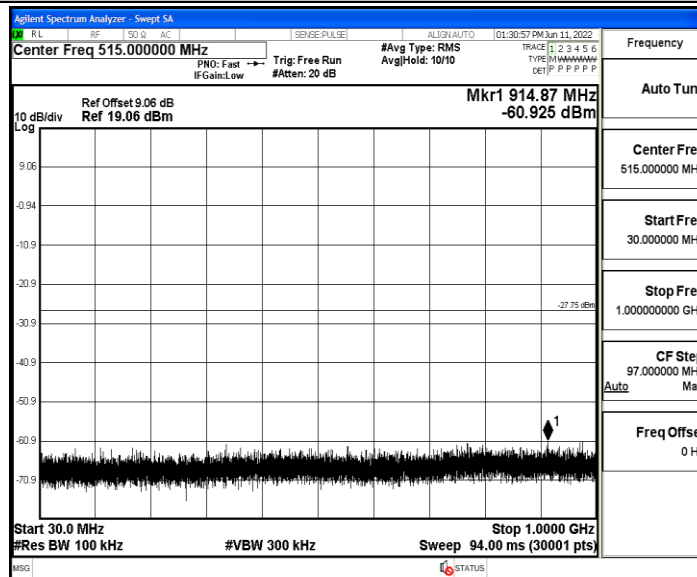
11B_Ant1_2437_1000~26500



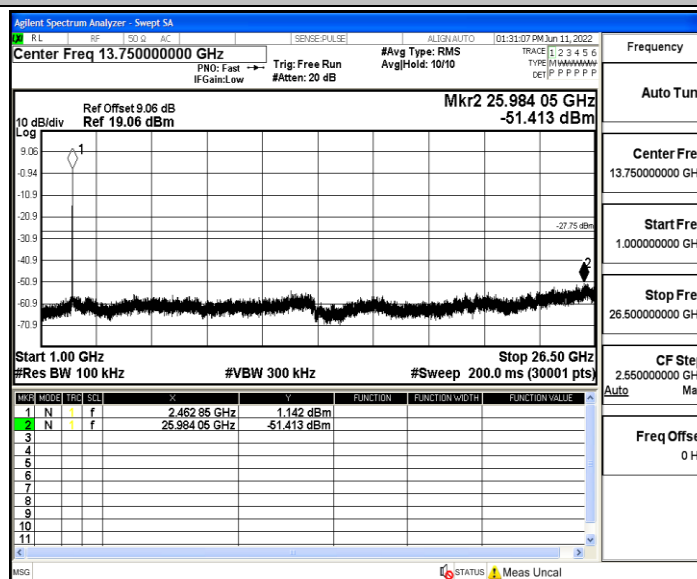
11B_Ant1_2462_0~Reference



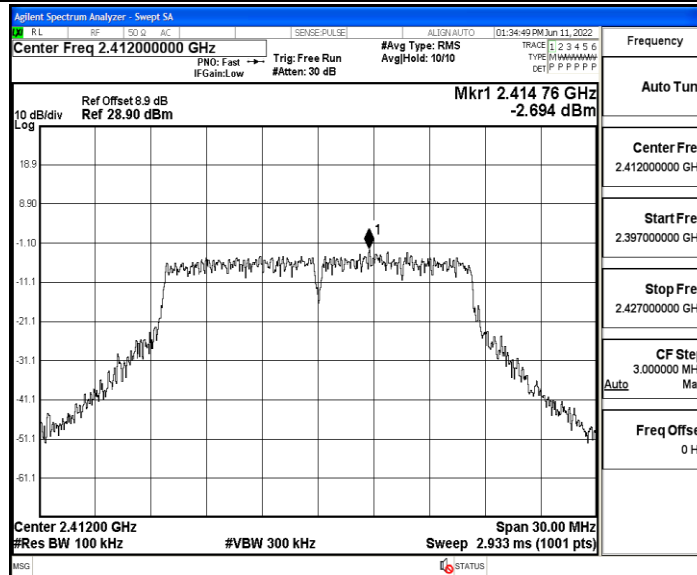
11B_Ant1_2462_30~1000



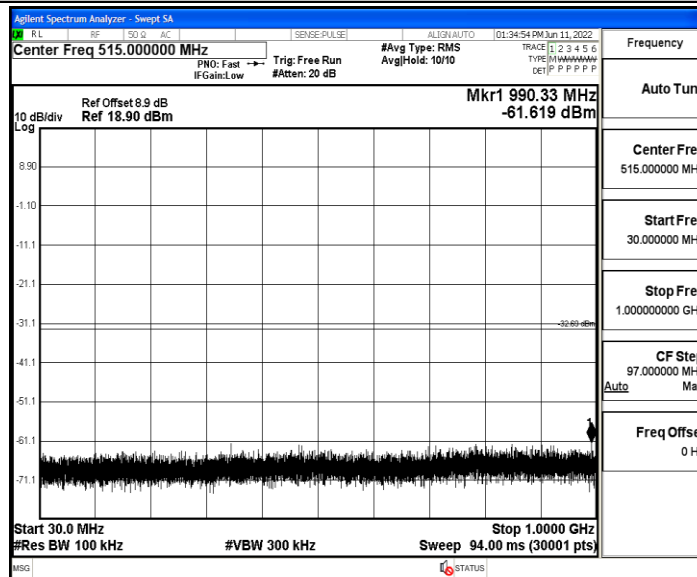
11B_Ant1_2462_1000~26500



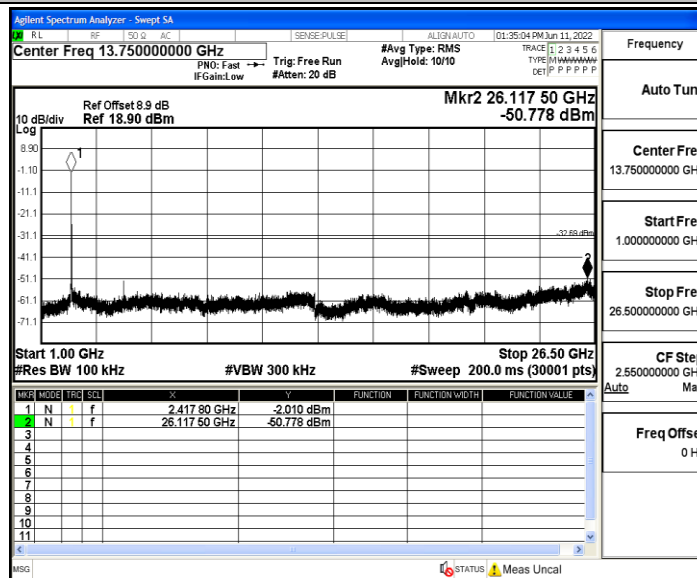
11G_Ant1_2412_0~Reference



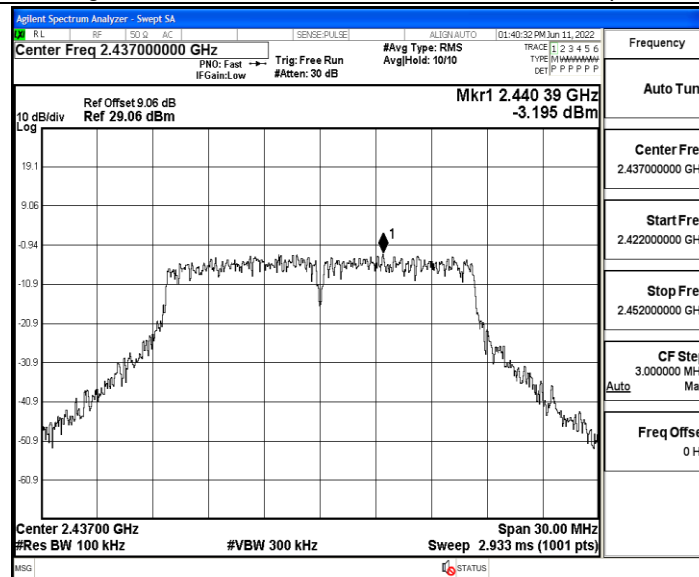
11G_Ant1_2412_30~1000



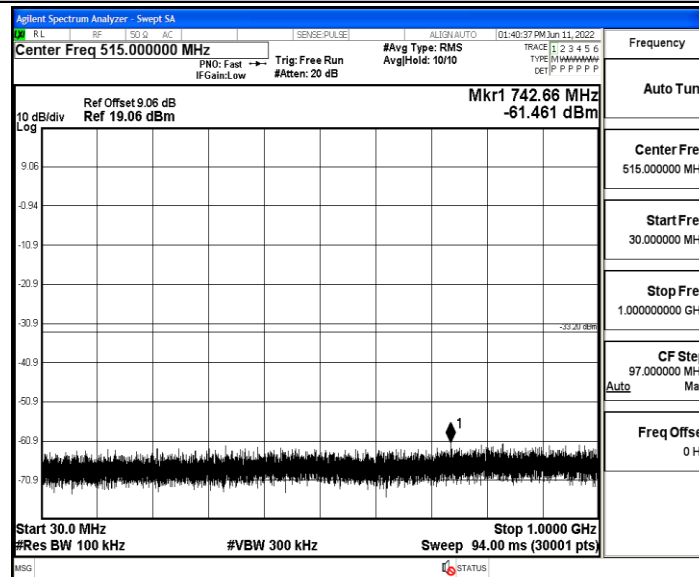
11G_Ant1_2412_1000~26500



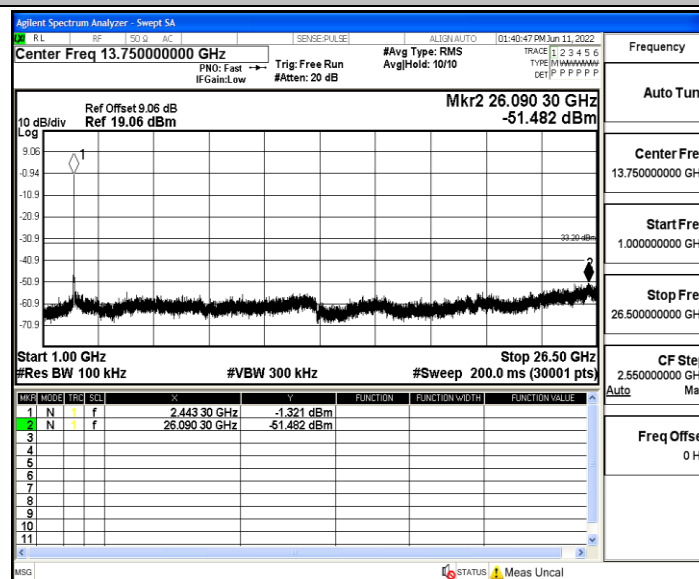
11G_Ant1_2437_0~Reference



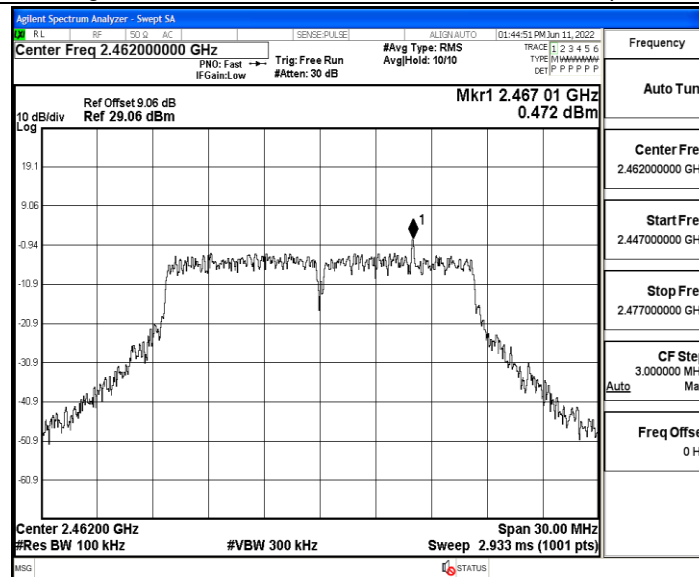
11G_Ant1_2437_30~1000



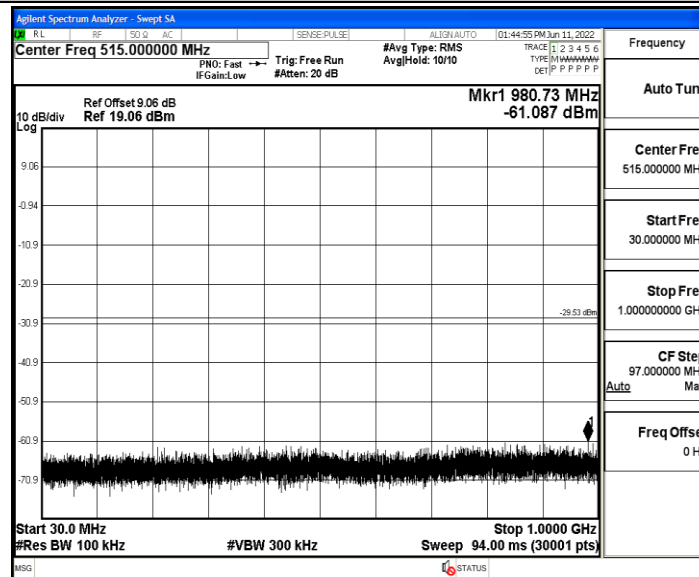
11G_Ant1_2437_1000~26500



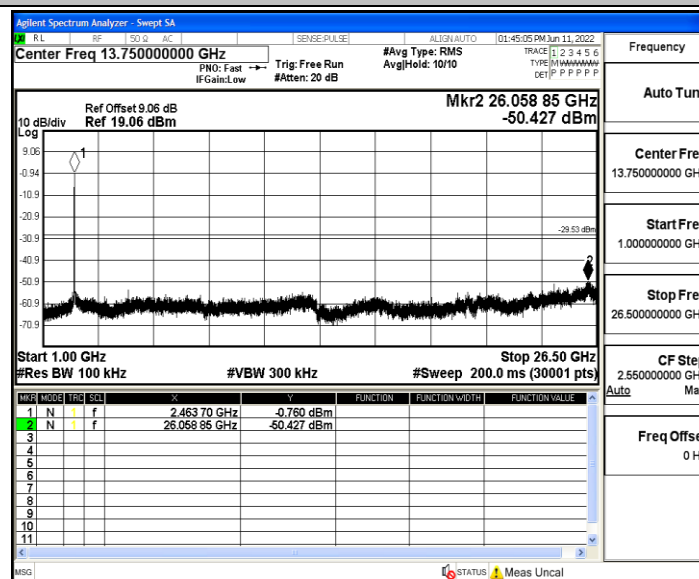
11G_Ant1_2462_0~Reference



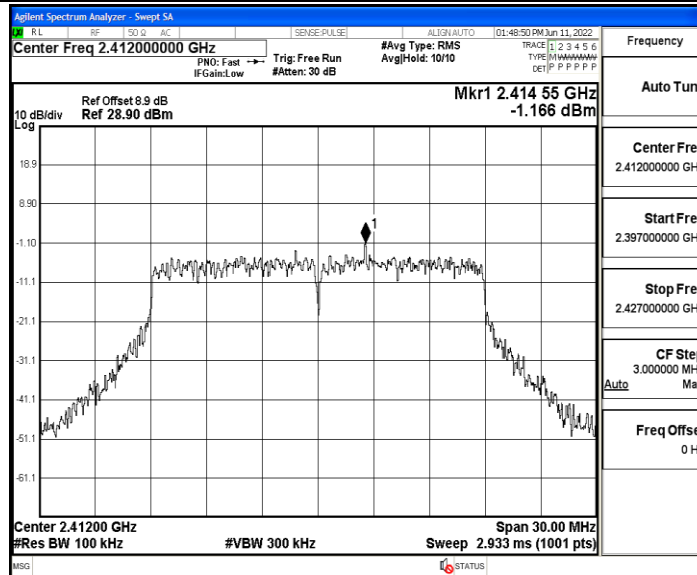
11G_Ant1_2462_30~1000



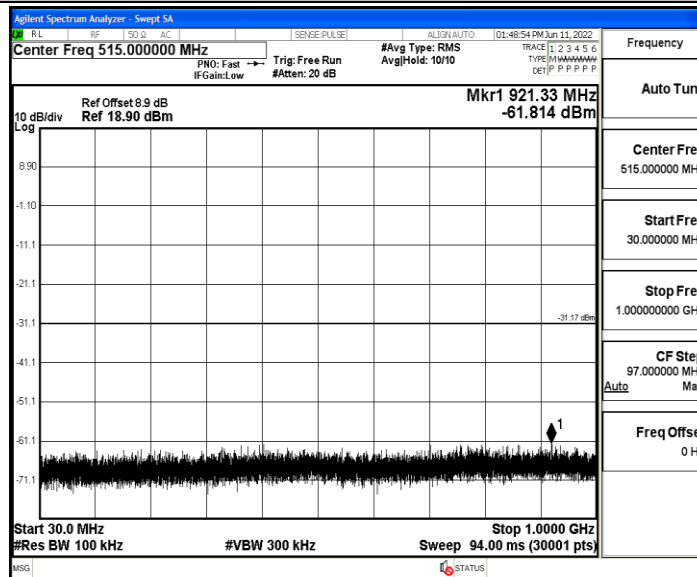
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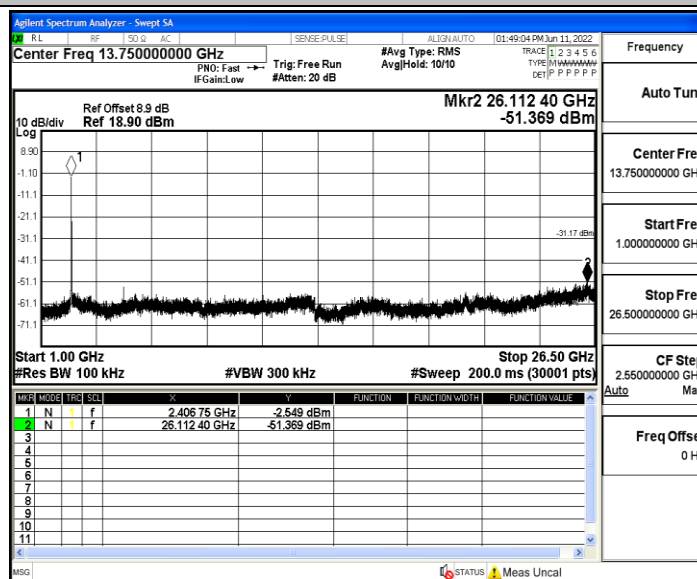
11N20SISO_Ant1_2412_0~Reference



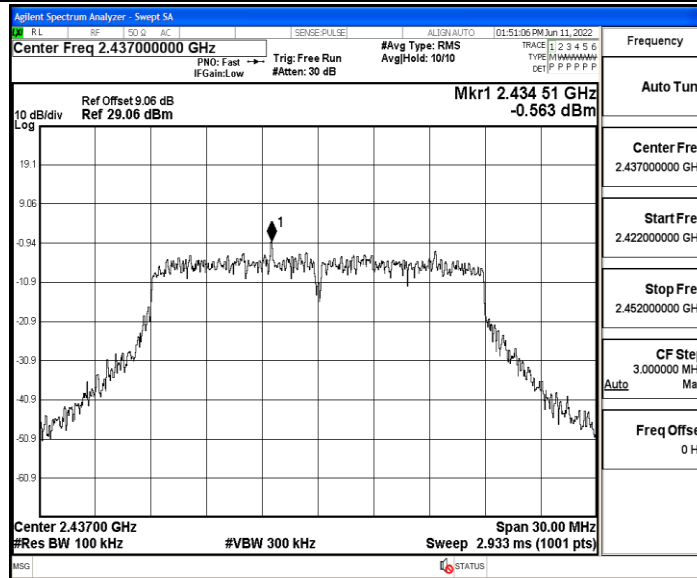
11N20SISO_Ant1_2412_30~1000



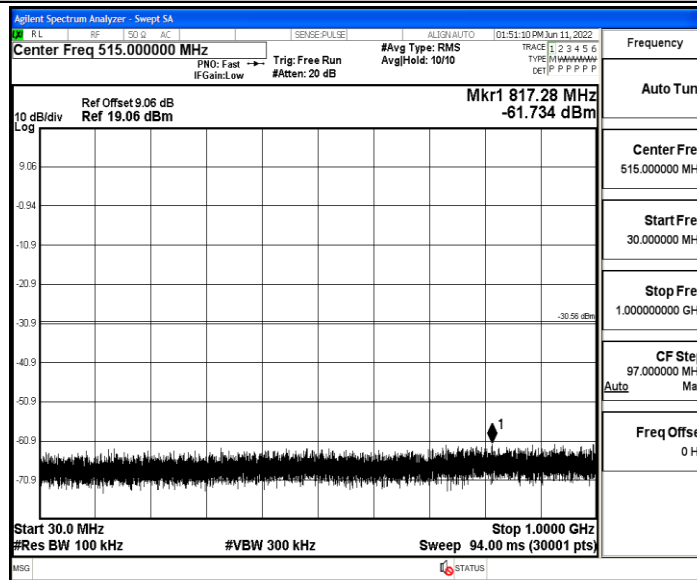
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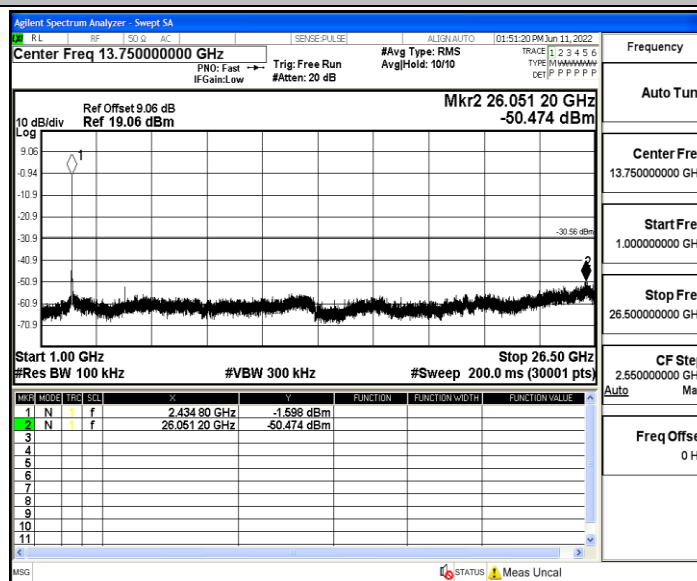
11N20SISO_Ant1_2437_0~Reference



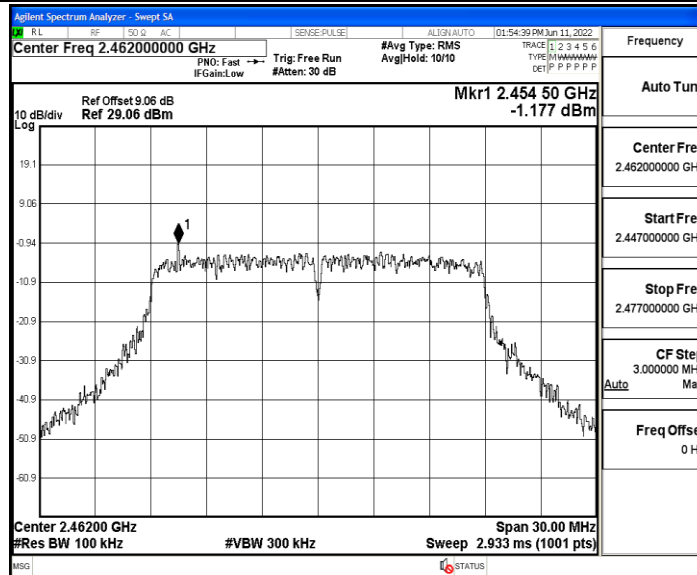
11N20SISO_Ant1_2437_30~1000



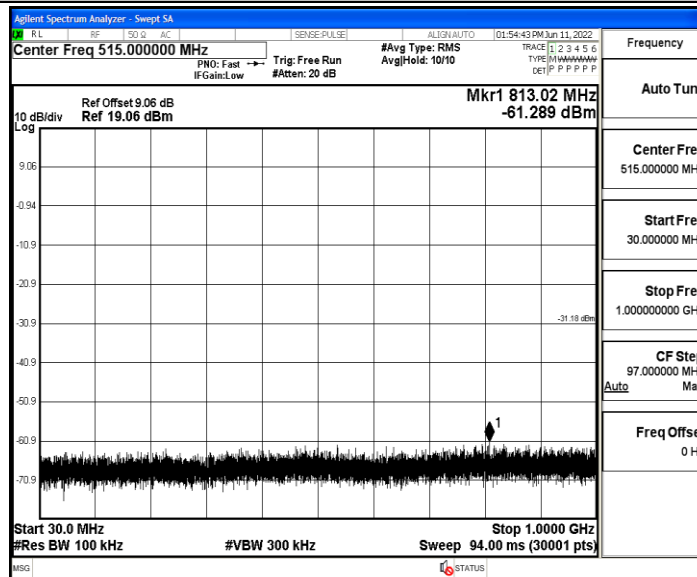
11N20SISO_Ant1_2437_1000~26500



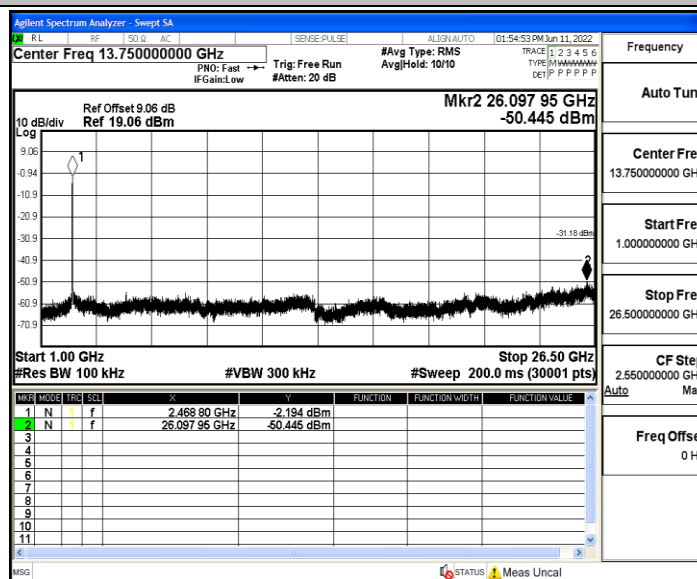
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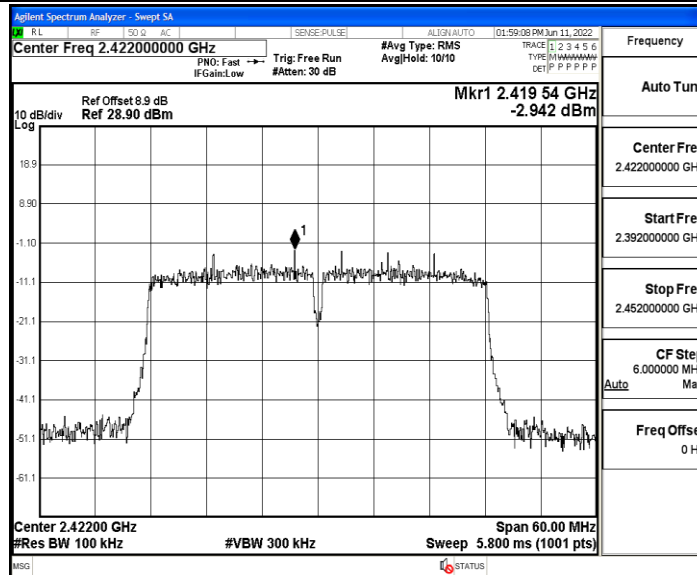
11N20SISO_Ant1_2462_30~1000



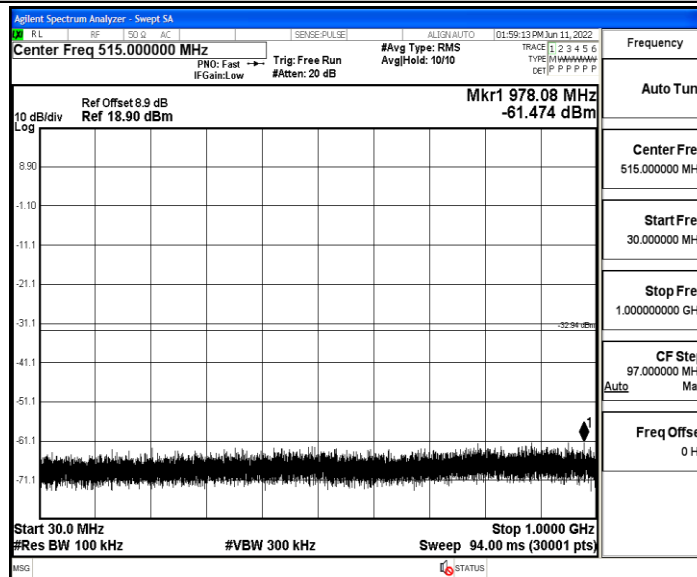
11N20SISO_Ant1_2462_1000~26500



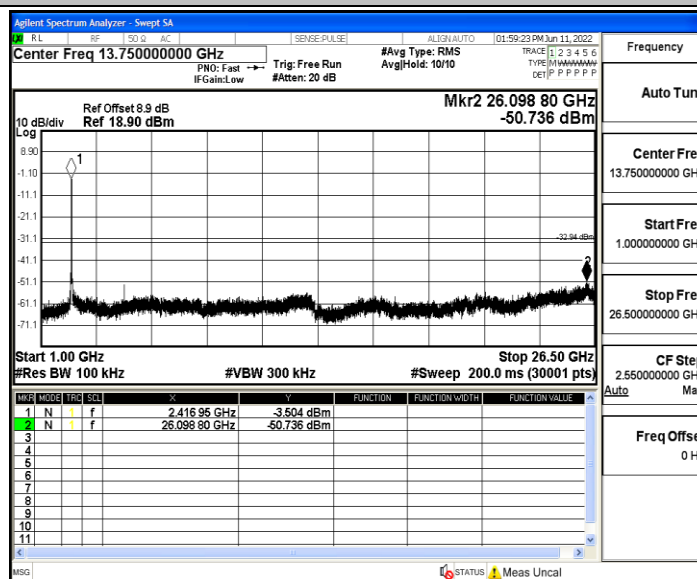
11N40SISO_Ant1_2422_0~Reference



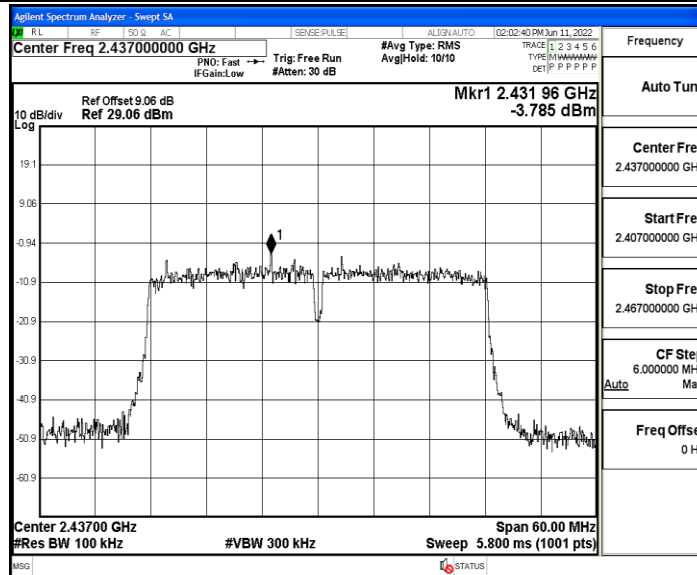
11N40SISO_Ant1_2422_30~1000



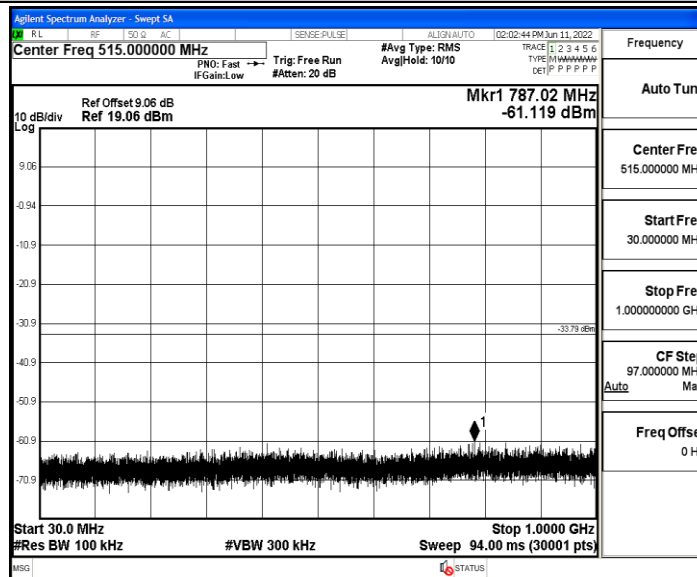
11N40SISO_Ant1_2422_1000~26500



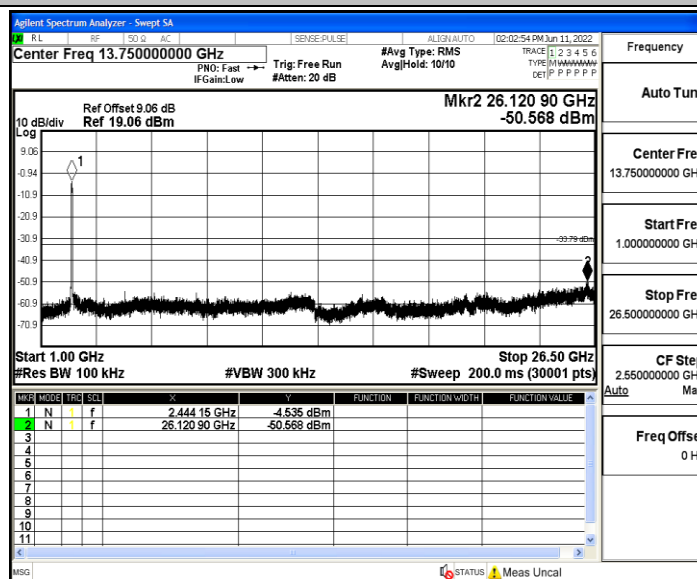
11N40SISO_Ant1_2437_0~Reference



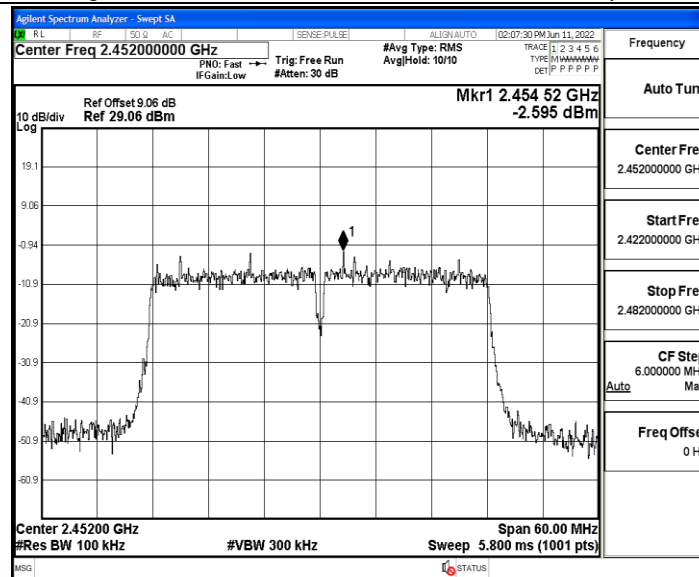
11N40SISO_Ant1_2437_30~1000



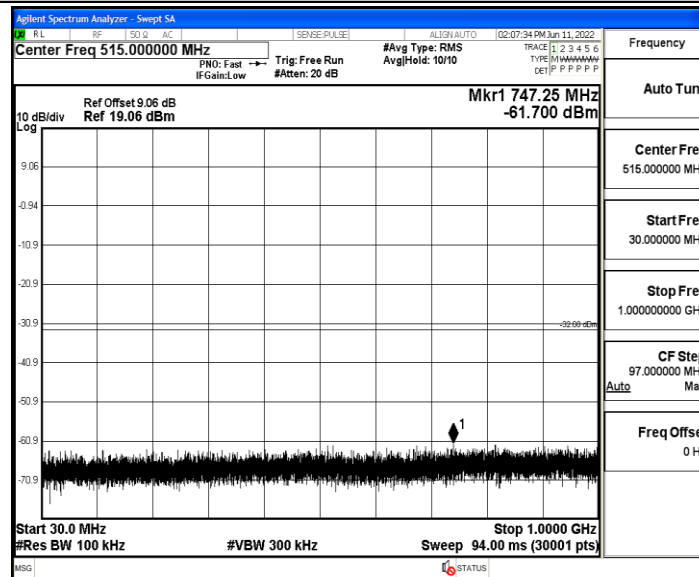
11N40SISO_Ant1_2437_1000~26500



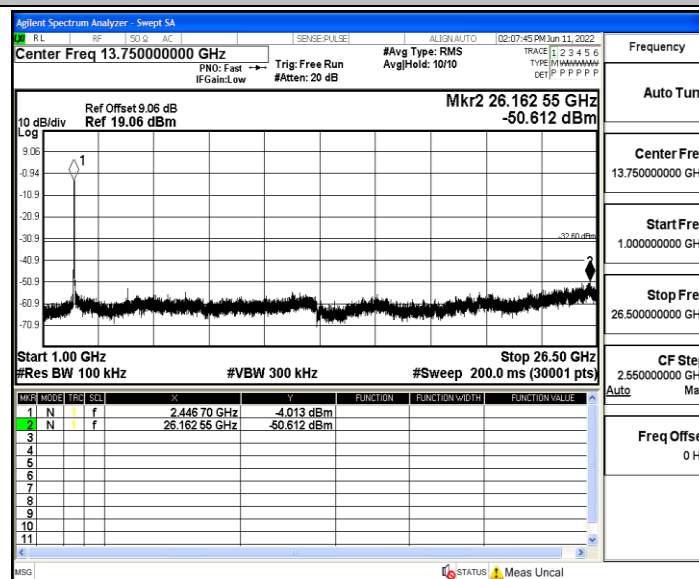
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



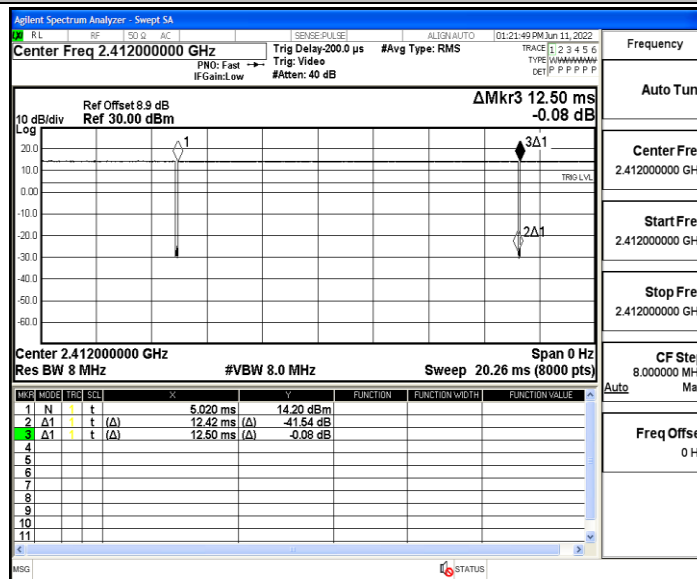
Appendix G: Duty Cycle

Test Result

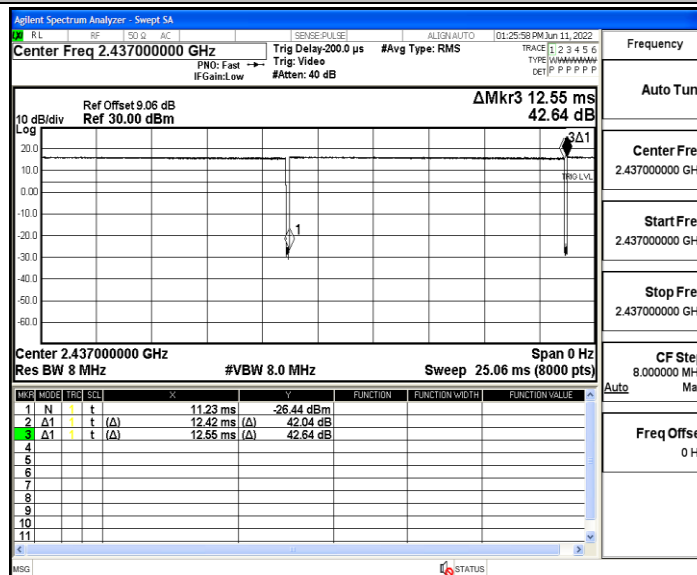
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
11B	Ant1	2412	12.42	12.50	99.36	0.08
		2437	12.42	12.55	98.96	0.08
		2462	12.42	12.45	99.76	0.08
11G	Ant1	2412	2.07	2.22	93.24	0.48
		2437	2.07	2.23	92.83	0.48
		2462	2.06	2.23	92.38	0.49
11N20SISO	Ant1	2412	1.92	2.09	91.87	0.52
		2437	1.93	2.09	92.34	0.52
		2462	1.92	2.08	92.31	0.52
11N40SISO	Ant1	2422	0.95	1.12	84.82	1.05
		2437	0.95	1.07	88.79	1.05
		2452	0.95	1.12	84.82	1.05

Test Graphs

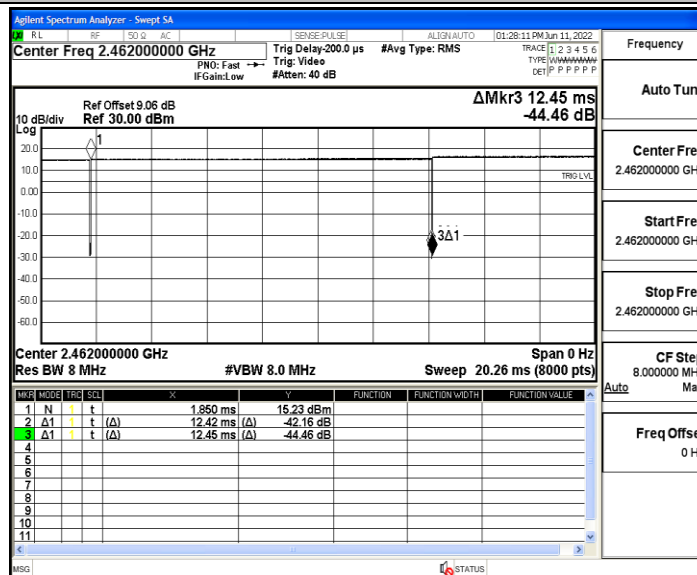
11B_Ant1_2412



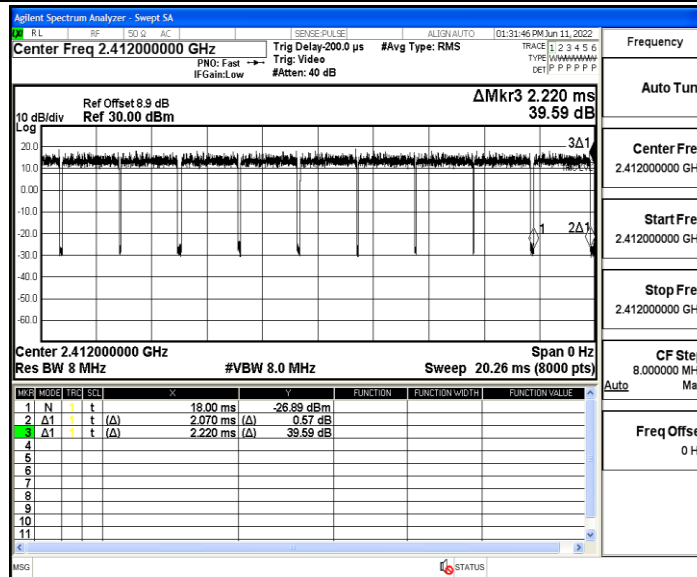
11B_Ant1_2437



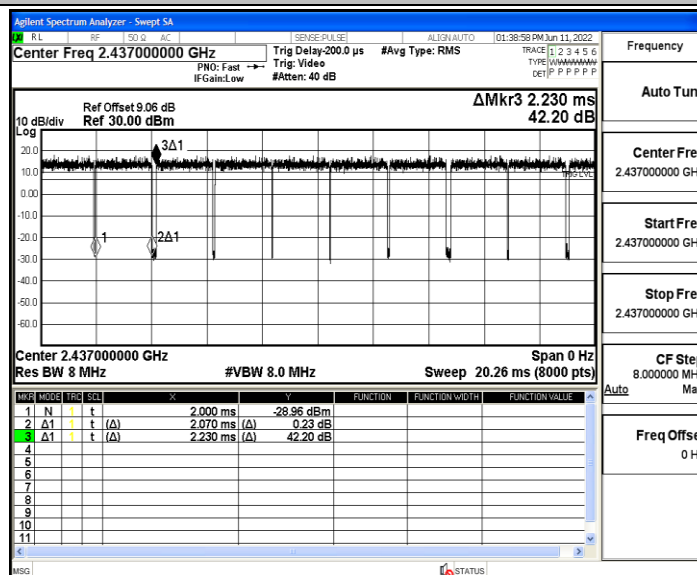
11B_Ant1_2462



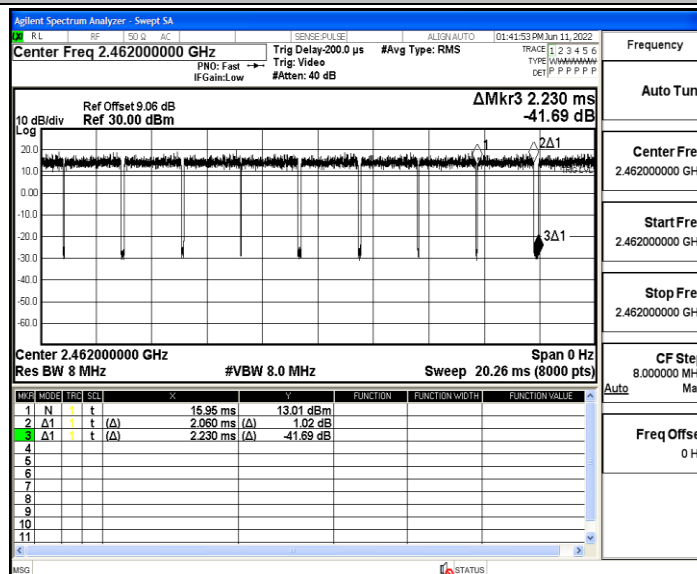
11G_Ant1_2412



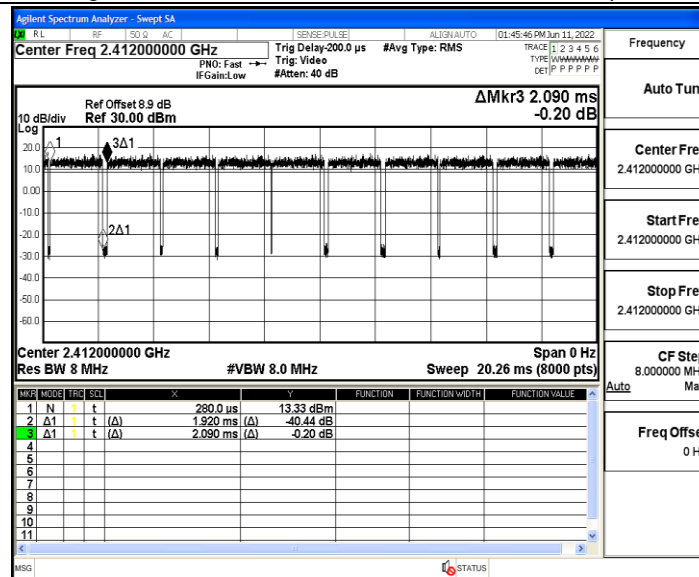
11G_Ant1_2437



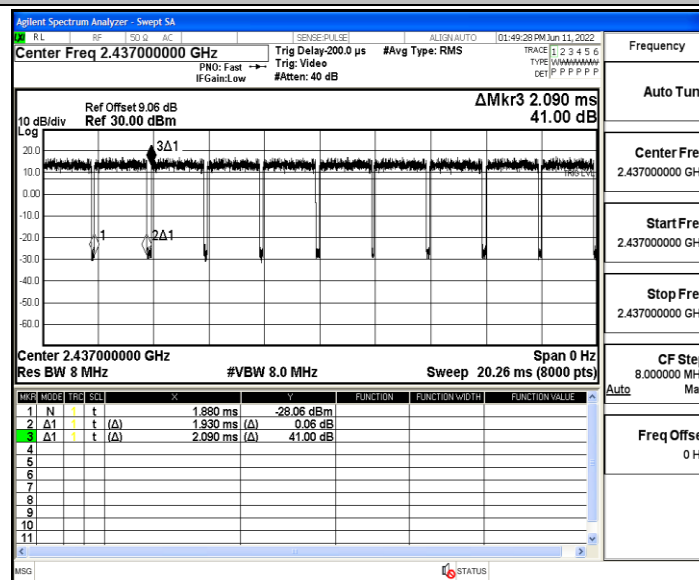
11G_Ant1_2462



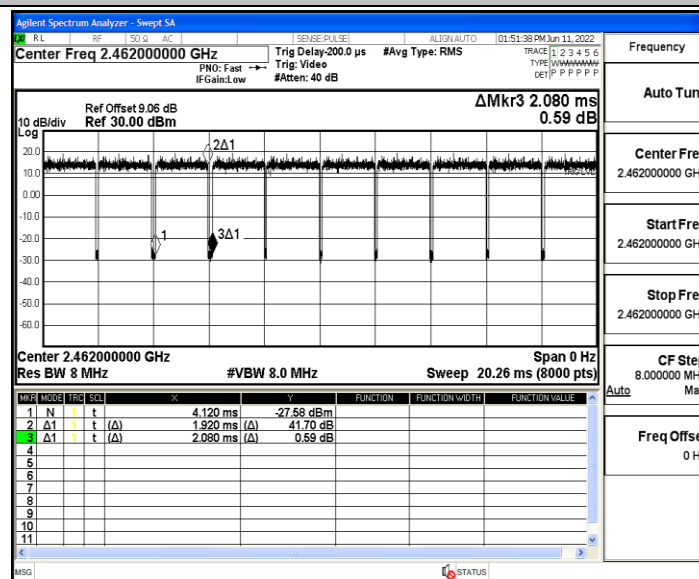
11N20SISO_Ant1_2412



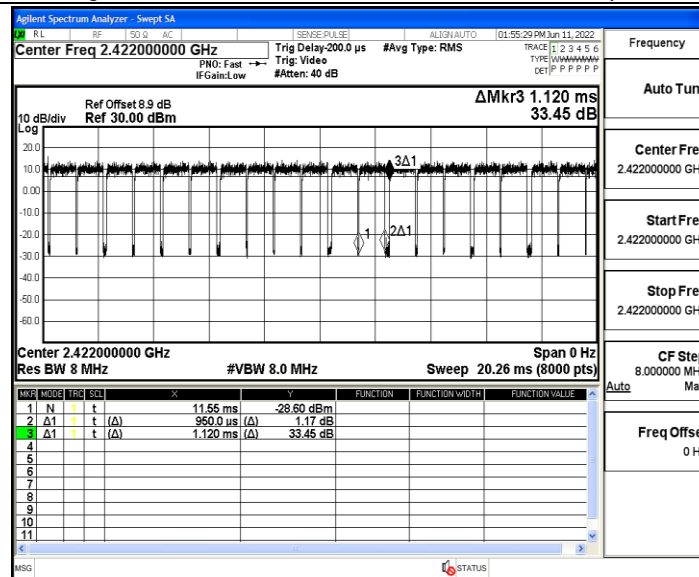
11N20SISO_Ant1_2437



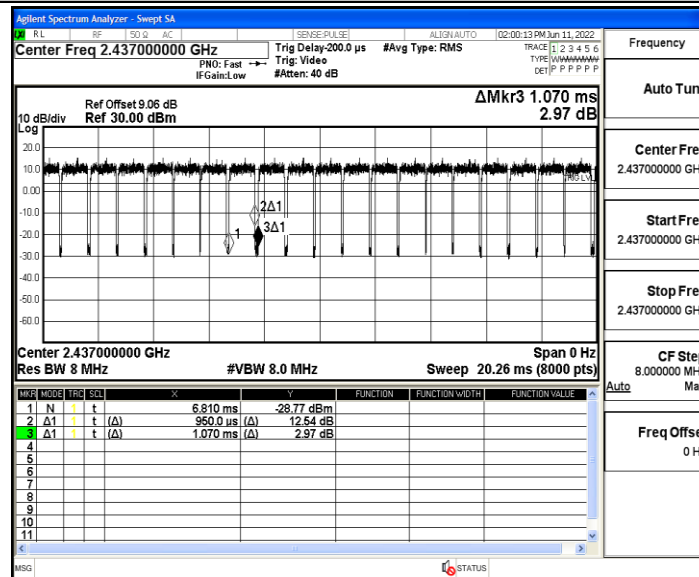
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

