

FCC Appendix RF Test Data for 2.4GWIFI ANT3

FCC ID : 2BSI8-WR300K

Company : Shenzhen BLIY Photoelectric Technology Co., Ltd.

EUT : Wireless Router

Model Number : WR300K

Report No. : CTA25090800101

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	8.120	2408.440	2416.560	0.5	PASS
		2437	9.040	2432.480	2441.520	0.5	PASS
		2462	9.080	2457.480	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.000	2428.880	2444.880	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.600	2404.040	2420.640	0.5	PASS
		2437	16.600	2428.640	2445.240	0.5	PASS
		2462	16.840	2453.520	2470.360	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.280	2419.320	2454.600	0.5	PASS
		2452	35.600	2434.240	2469.840	0.5	PASS
11AX20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	16.840	2428.520	2445.360	0.5	PASS
		2462	17.080	2453.560	2470.640	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.680	2433.920	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



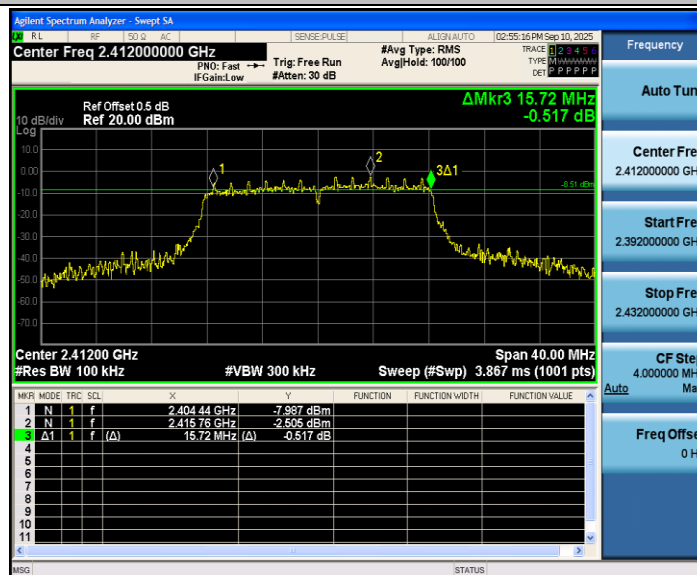
11B_Ant1_2437



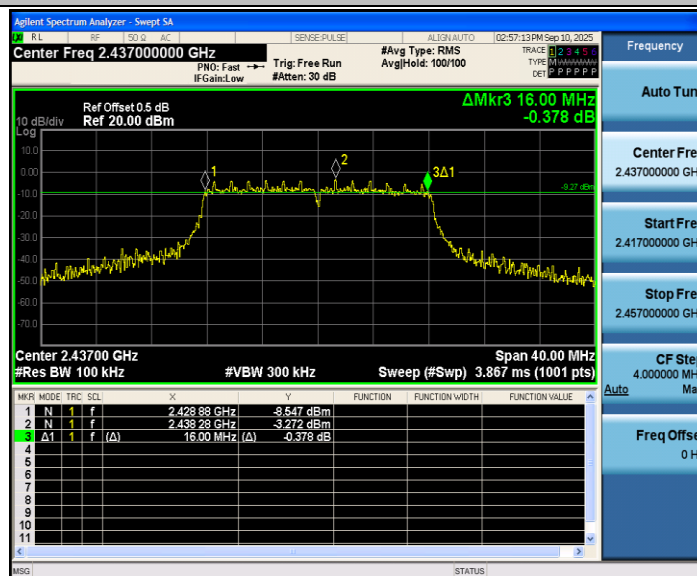
11B_Ant1_2462



11G_Ant1_2412



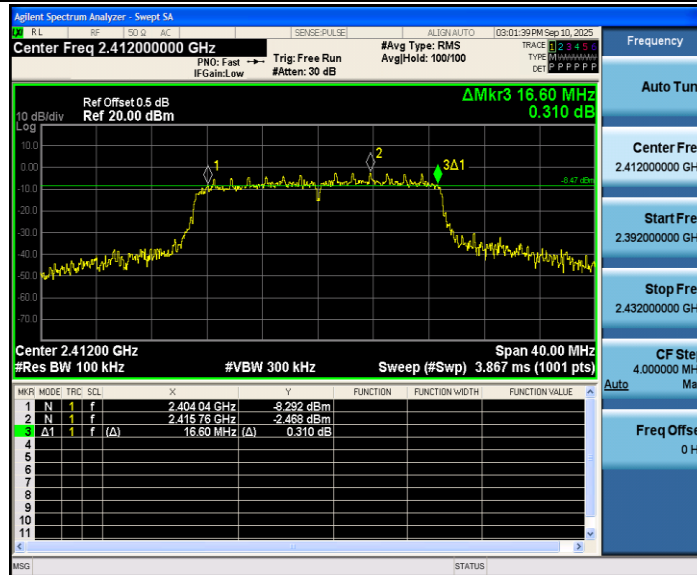
11G_Ant1_2437



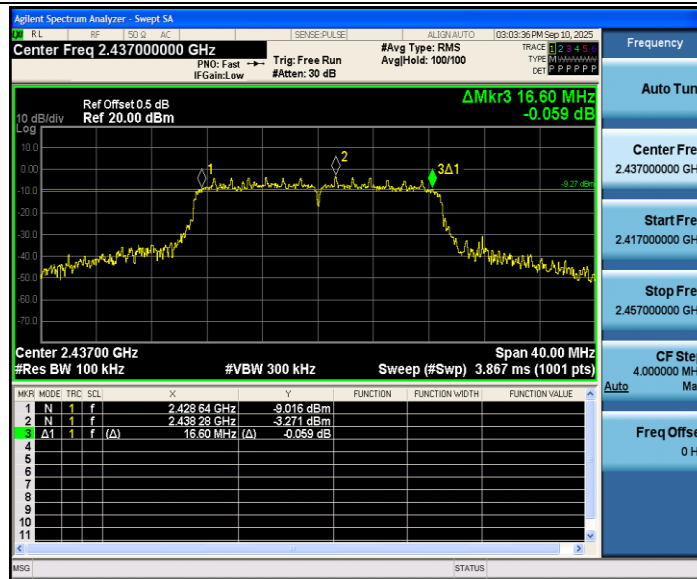
11G_Ant1_2462



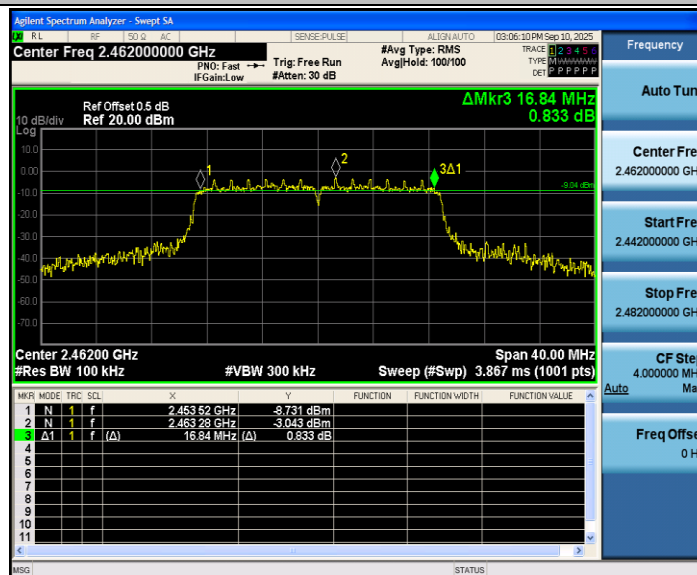
11N20SISO_Ant1_2412



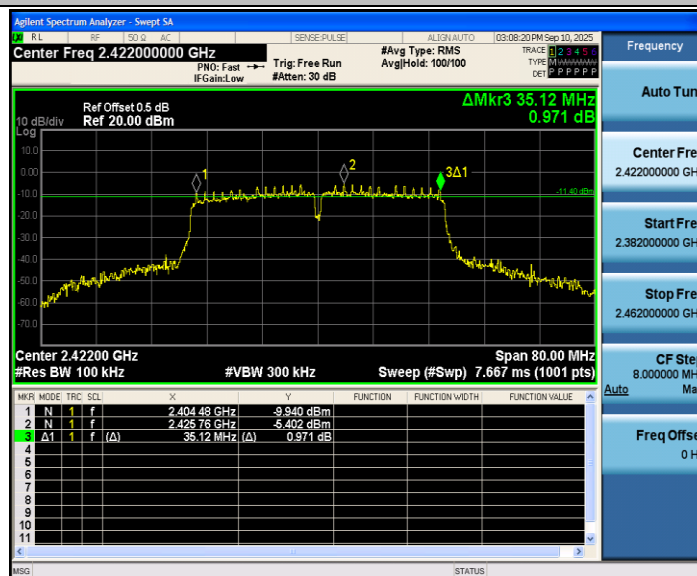
11N20SISO_Ant1_2437



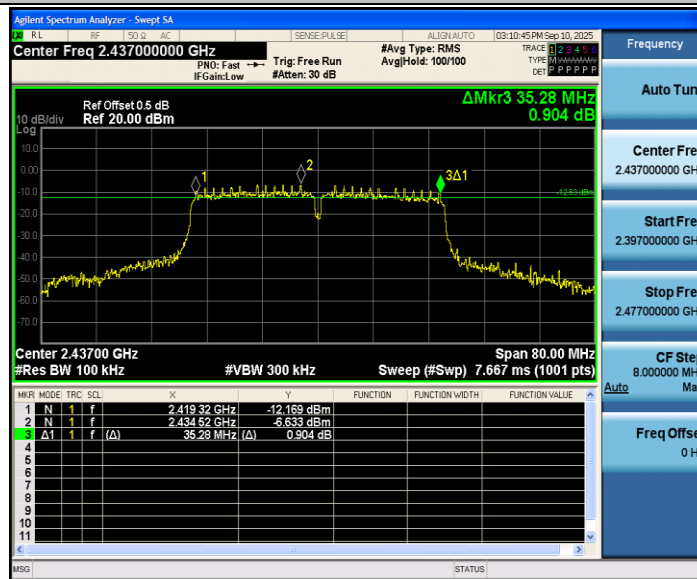
11N20SISO_Ant1_2462



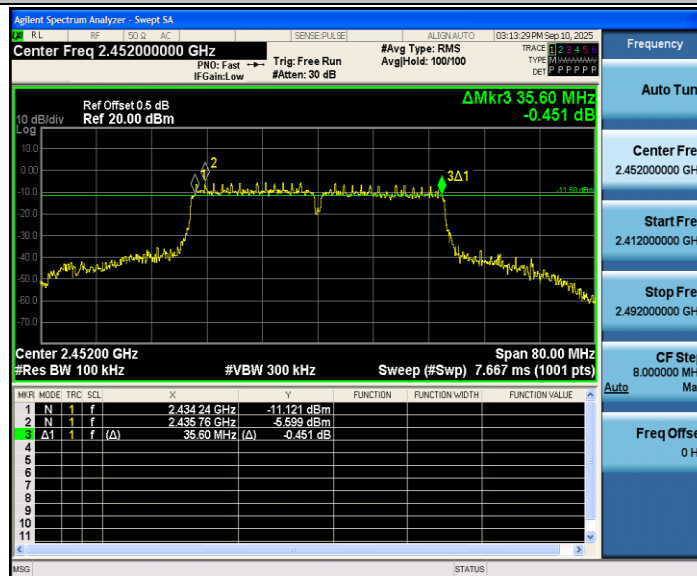
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



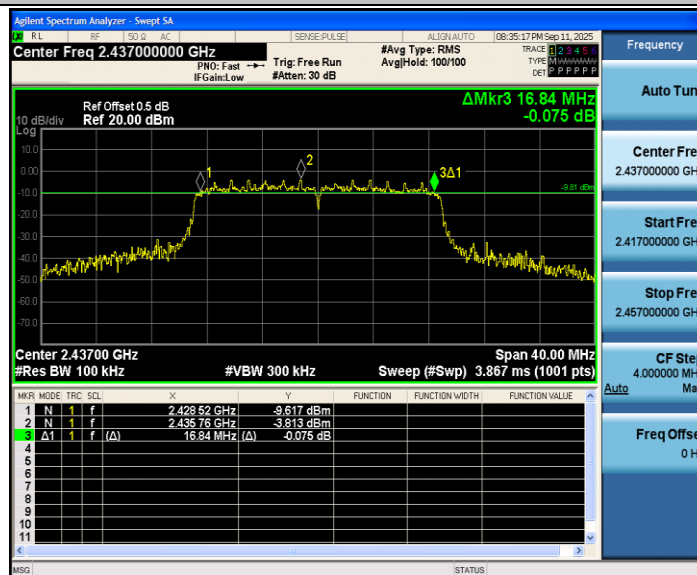
11N40SISO_Ant1_2452



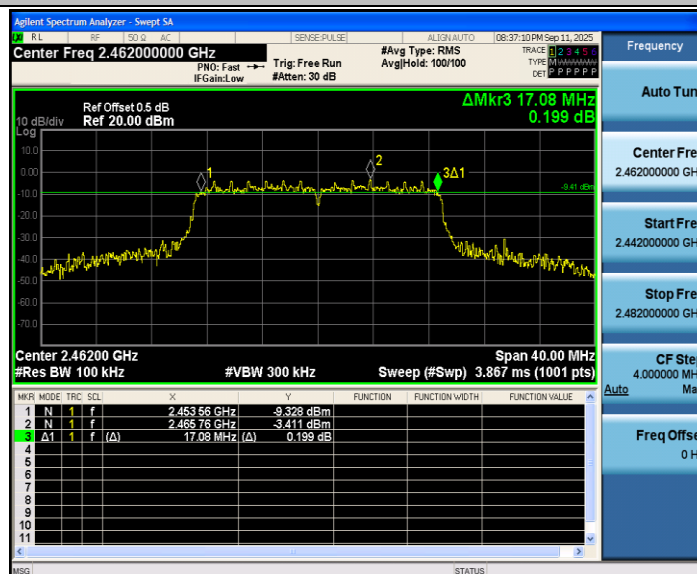
11AX20SISO_Ant1_2412



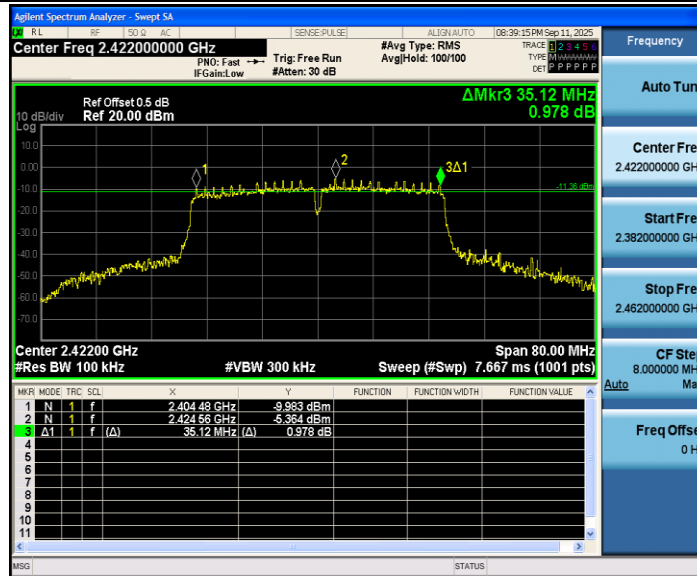
11AX20SISO_Ant1_2437



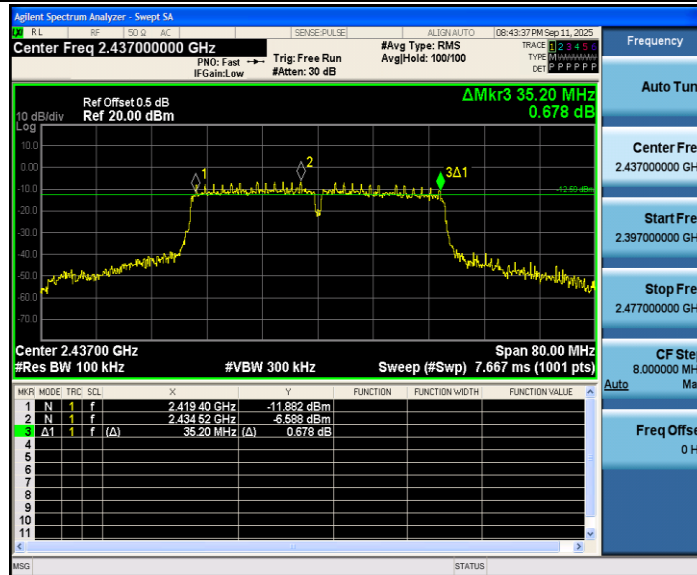
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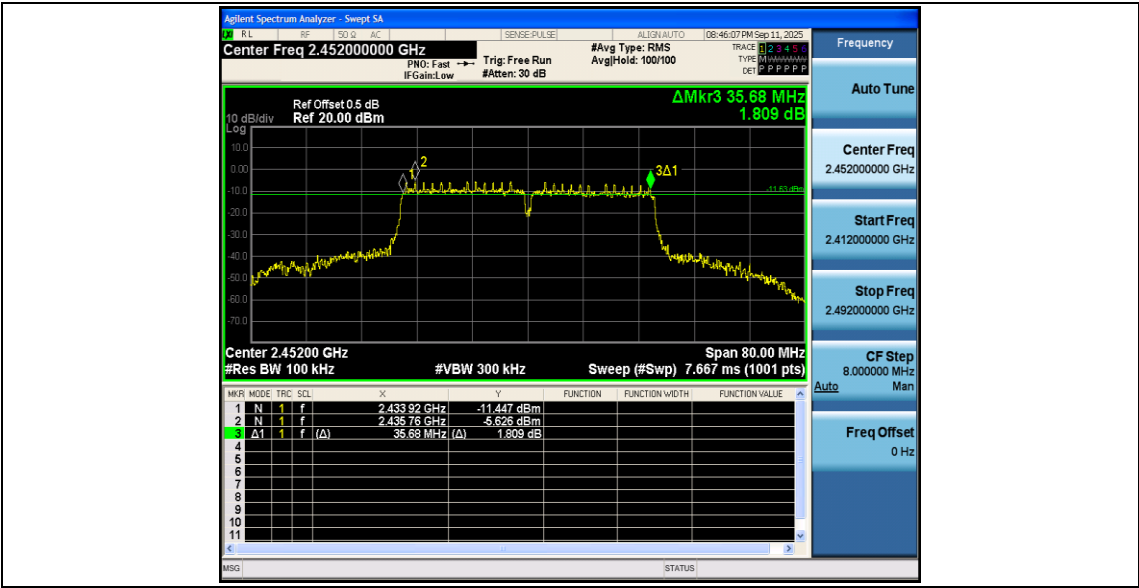
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



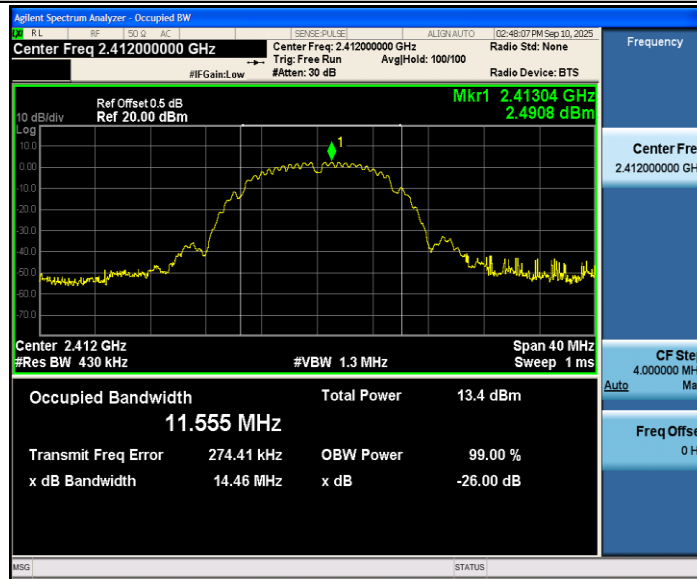
Appendix B: Occupied Channel Bandwidth

Test Result

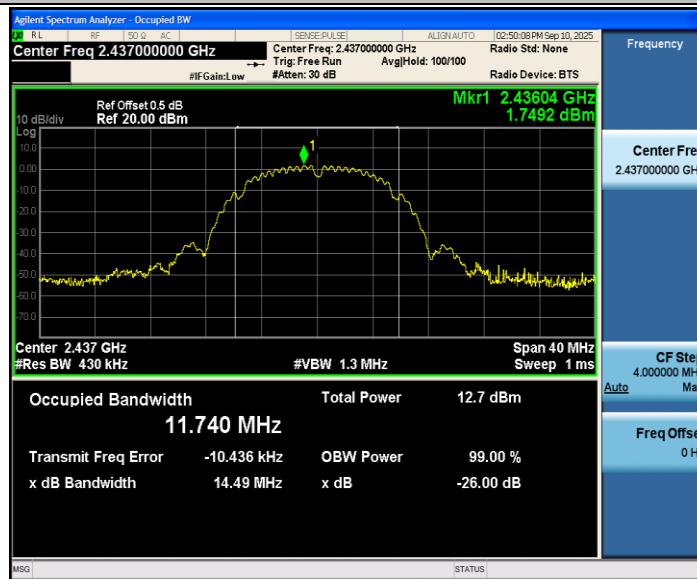
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.555	2406.4969	2418.0519	---	---
		2437	11.740	2431.1196	2442.8596	---	---
		2462	11.822	2456.1417	2467.9637	---	---
11G	Ant1	2412	16.666	2403.8115	2420.4775	---	---
		2437	16.691	2428.6692	2445.3602	---	---
		2462	16.758	2453.6453	2470.4033	---	---
11N20SISO	Ant1	2412	17.567	2403.3535	2420.9205	---	---
		2437	17.595	2428.2127	2445.8077	---	---
		2462	17.675	2453.2325	2470.9075	---	---
11N40SISO	Ant1	2422	36.033	2404.1876	2440.2206	---	---
		2437	36.253	2418.8576	2455.1106	---	---
		2452	36.427	2433.8091	2470.2361	---	---
11AX20SISO	Ant1	2412	17.556	2403.3766	2420.9326	---	---
		2437	17.616	2428.1905	2445.8065	---	---
		2462	17.671	2453.1978	2470.8688	---	---
11AX40SISO	Ant1	2422	35.981	2404.2206	2440.2016	---	---
		2437	36.060	2419.0055	2455.0655	---	---
		2452	36.278	2433.9001	2470.1781	---	---

Test Graphs

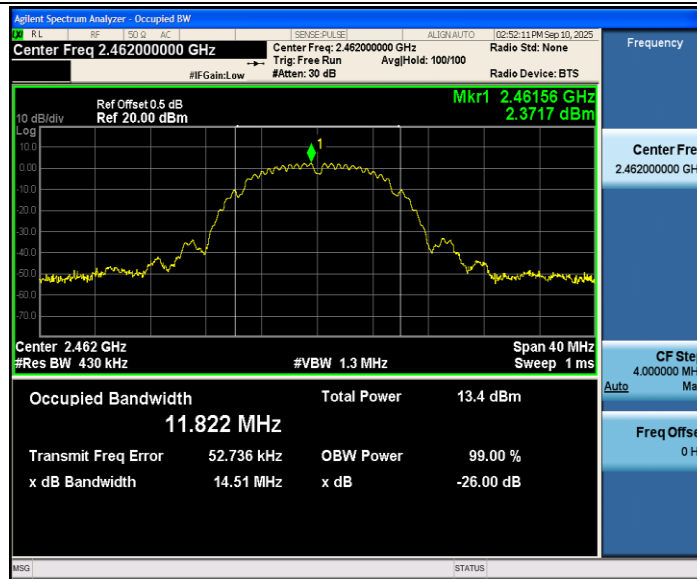
11B_Ant1_2412



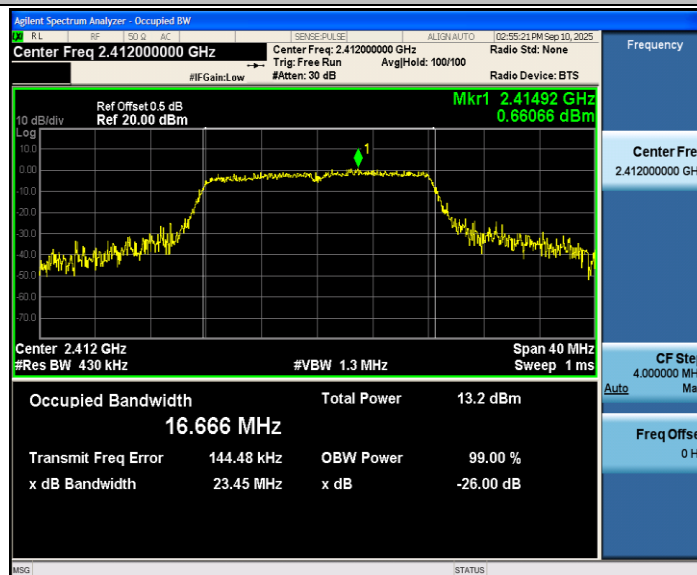
11B_Ant1_2437



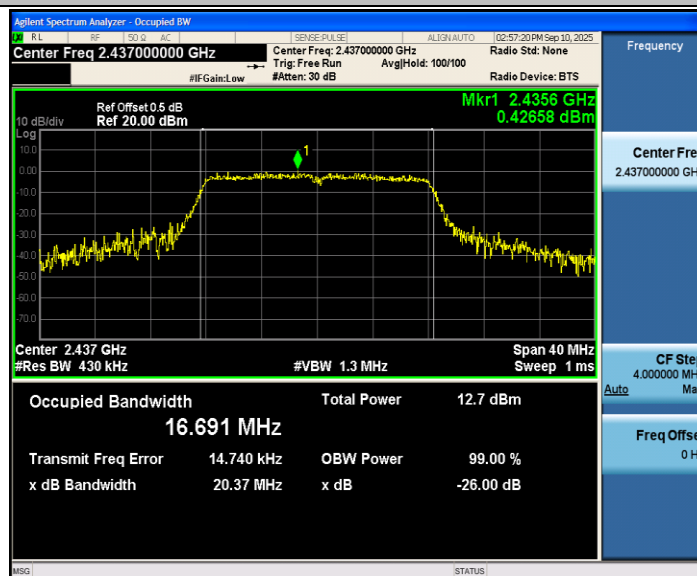
11B_Ant1_2462



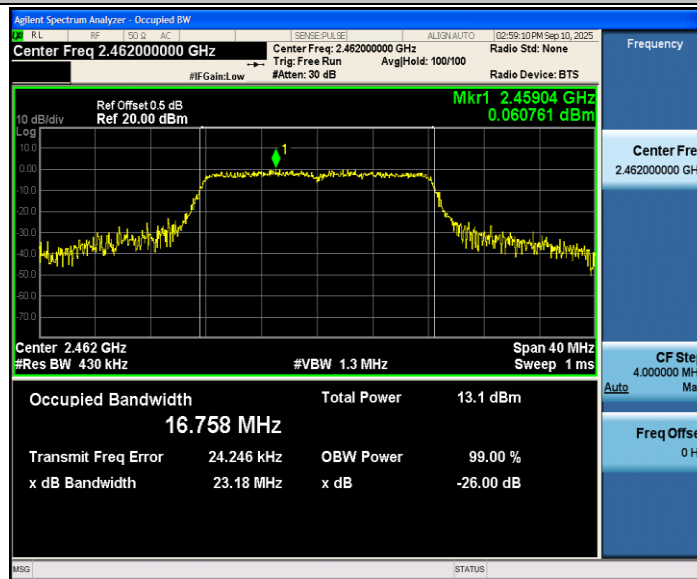
11G_Ant1_2412



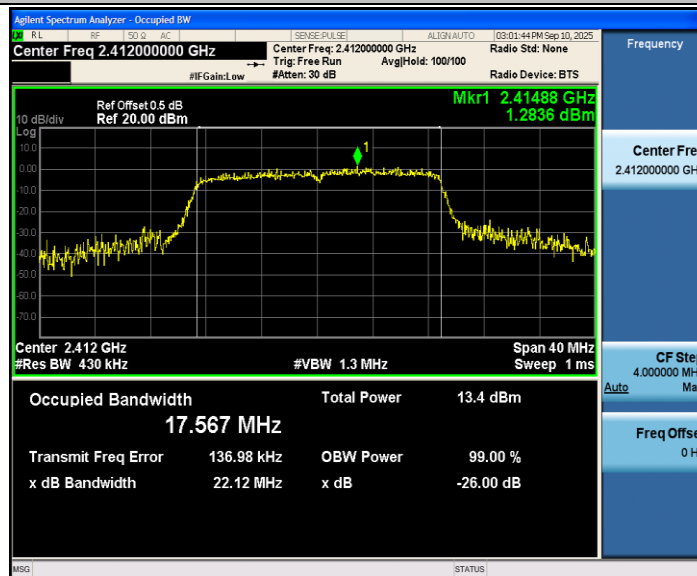
11G_Ant1_2437



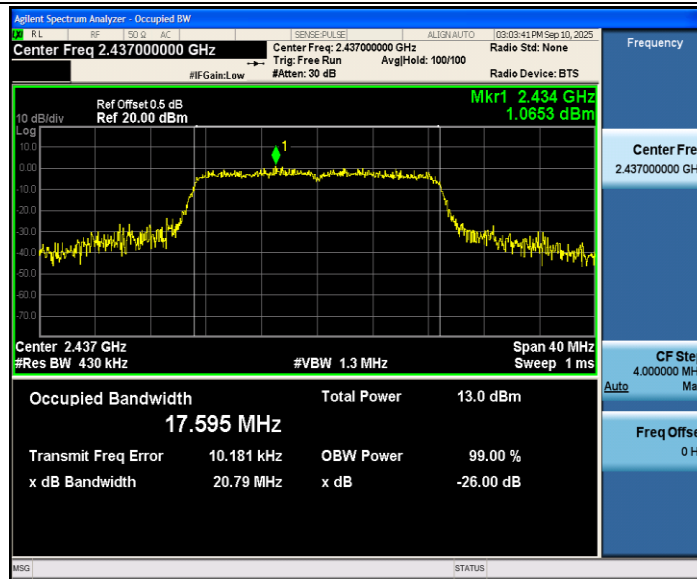
11G_Ant1_2462



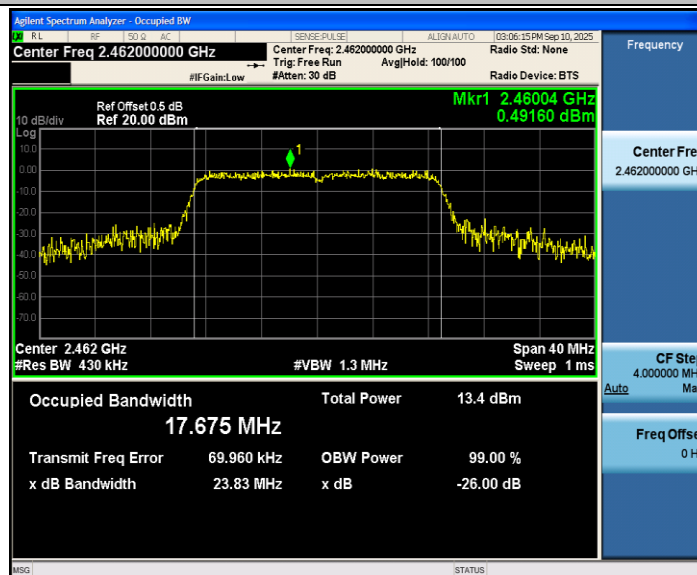
11N20SISO_Ant1_2412



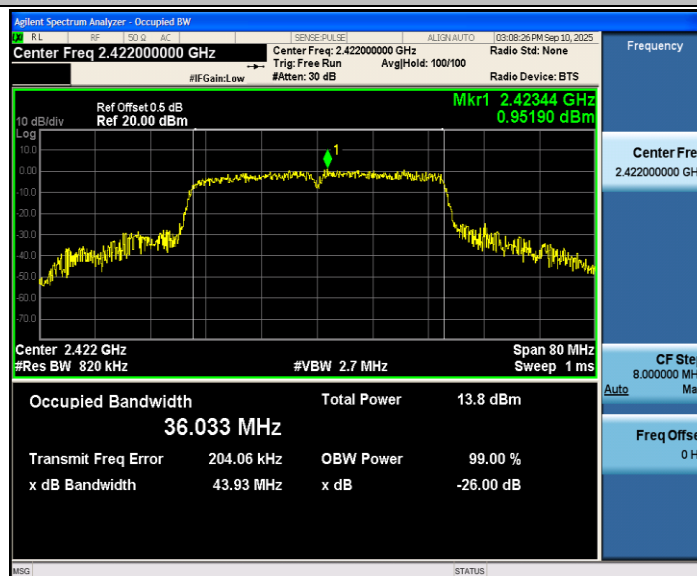
11N20SISO_Ant1_2437



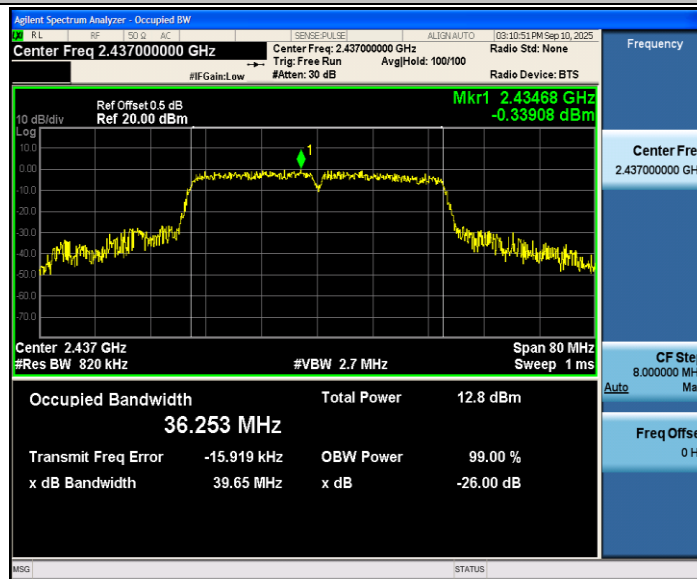
11N20SISO_Ant1_2462



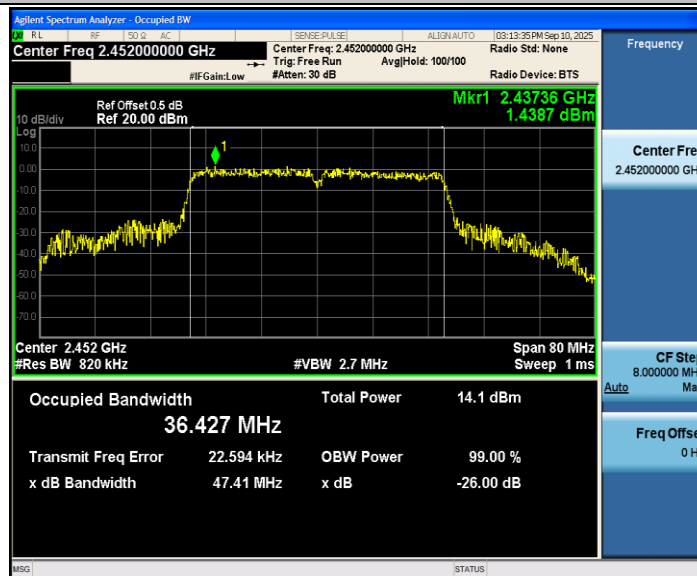
11N40SISO_Ant1_2422



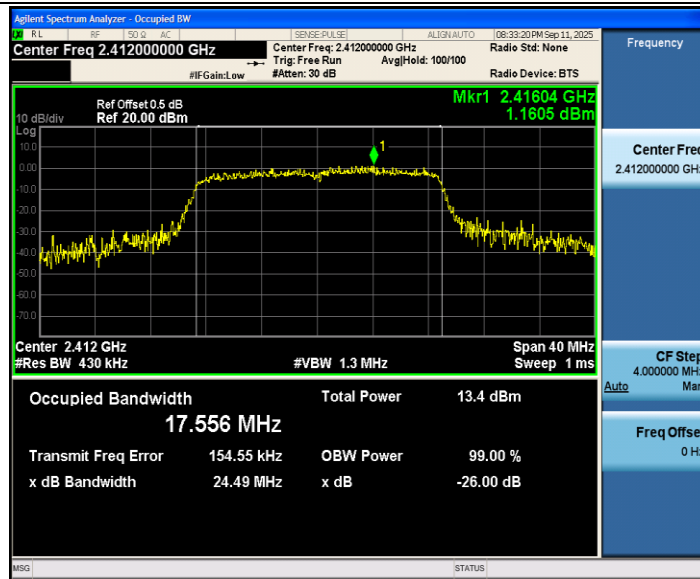
11N40SISO_Ant1_2437



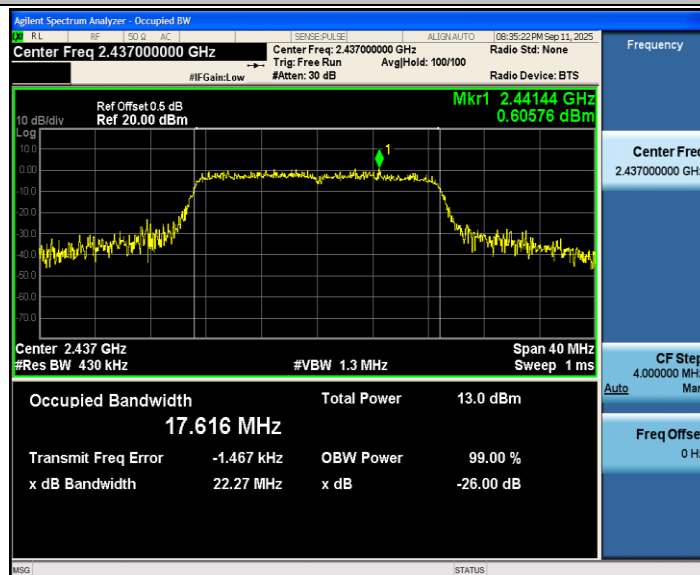
11N40SISO_Ant1_2452



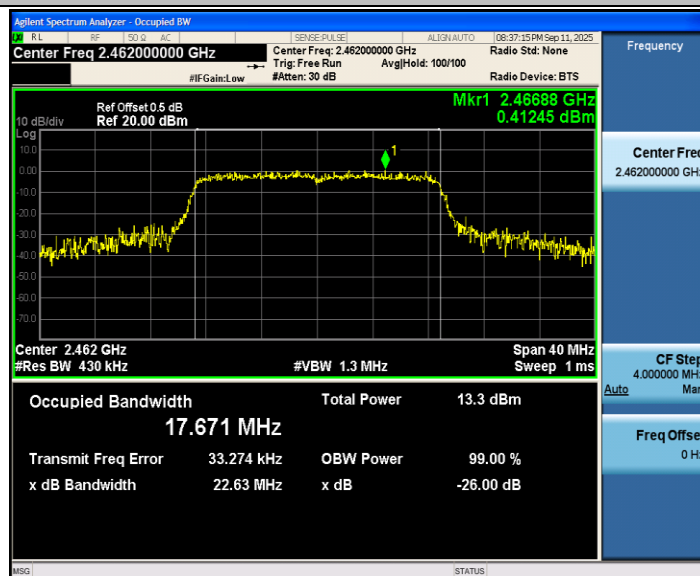
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



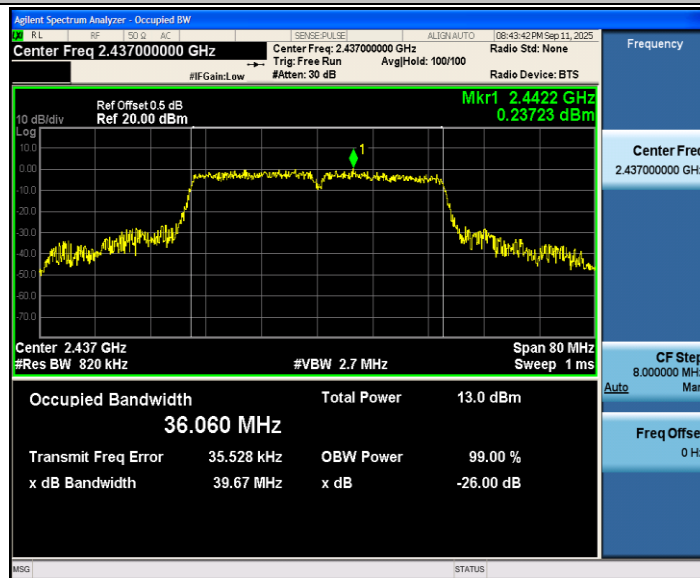
11AX20SISO_Ant1_2462



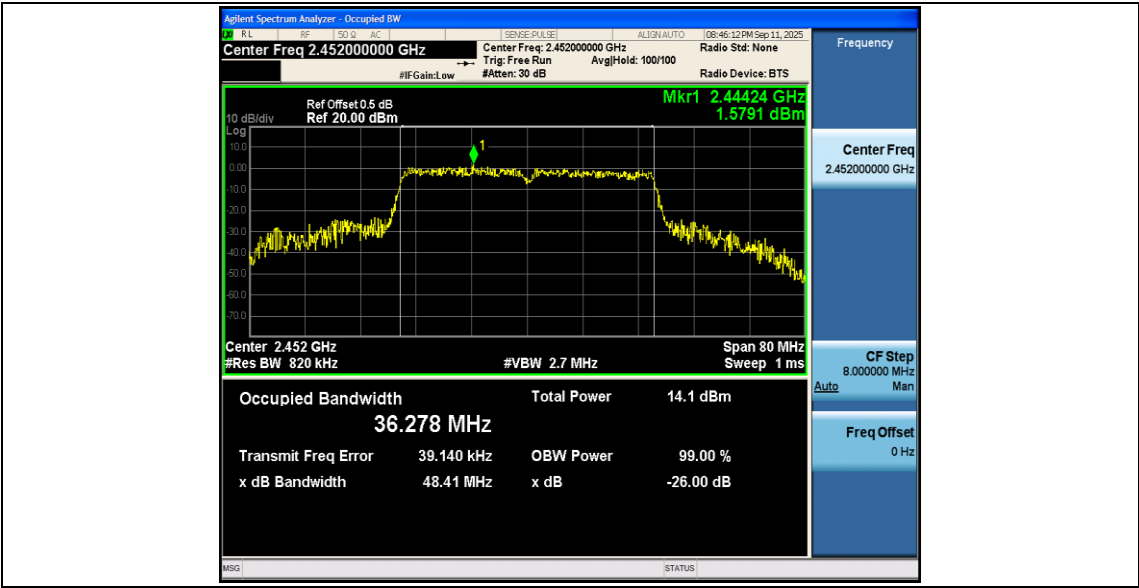
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.09	≤30.00	PASS
		2437	12.57	≤30.00	PASS
		2462	13.28	≤30.00	PASS
11G	Ant1	2412	13.90	≤30.00	PASS
		2437	13.43	≤30.00	PASS
		2462	13.87	≤30.00	PASS
11N20SISO	Ant1	2412	14.18	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	14.04	≤30.00	PASS
11N40SISO	Ant1	2422	14.06	≤30.00	PASS
		2437	12.89	≤30.00	PASS
		2452	14.26	≤30.00	PASS
11AX20SISO	Ant1	2412	13.88	≤30.00	PASS
		2437	13.68	≤30.00	PASS
		2462	14.11	≤30.00	PASS
11AX40SISO	Ant1	2422	13.81	≤30.00	PASS
		2437	13.41	≤30.00	PASS
		2452	14.27	≤30.00	PASS

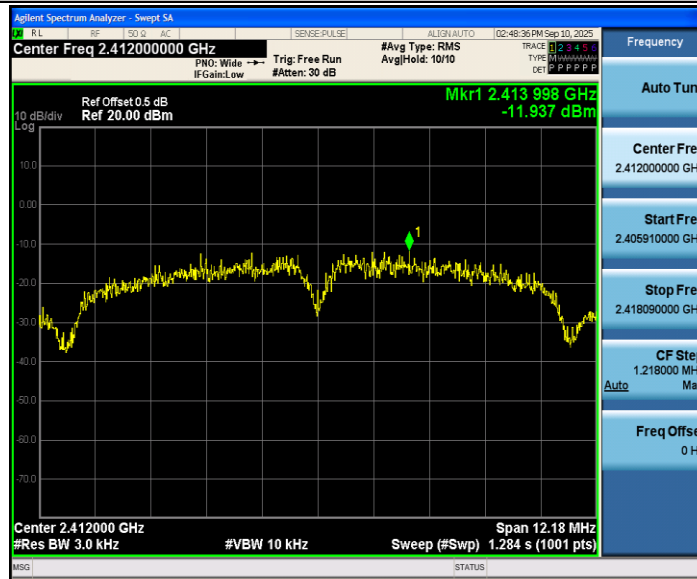
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.94	≤8.00	PASS
		2437	-11.94	≤8.00	PASS
		2462	-11.25	≤8.00	PASS
11G	Ant1	2412	-16.86	≤8.00	PASS
		2437	-17.63	≤8.00	PASS
		2462	-17.59	≤8.00	PASS
11N20SISO	Ant1	2412	-17.49	≤8.00	PASS
		2437	-17.97	≤8.00	PASS
		2462	-17.79	≤8.00	PASS
11N40SISO	Ant1	2422	-20.27	≤8.00	PASS
		2437	-21.23	≤8.00	PASS
		2452	-19.89	≤8.00	PASS
11AX20SISO	Ant1	2412	-16.61	≤8.00	PASS
		2437	-18.55	≤8.00	PASS
		2462	-17.82	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.30	≤8.00	PASS
		2437	-20.66	≤8.00	PASS
		2452	-19.80	≤8.00	PASS

Test Graphs

11B_Ant1_2412



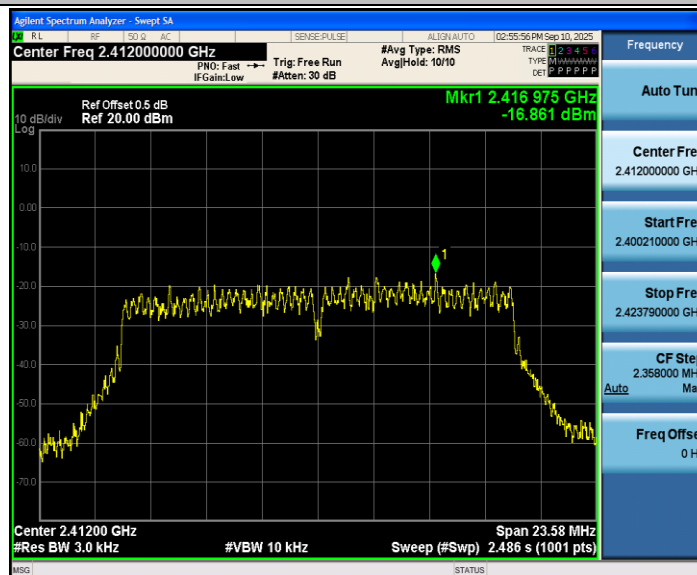
11B_Ant1_2437



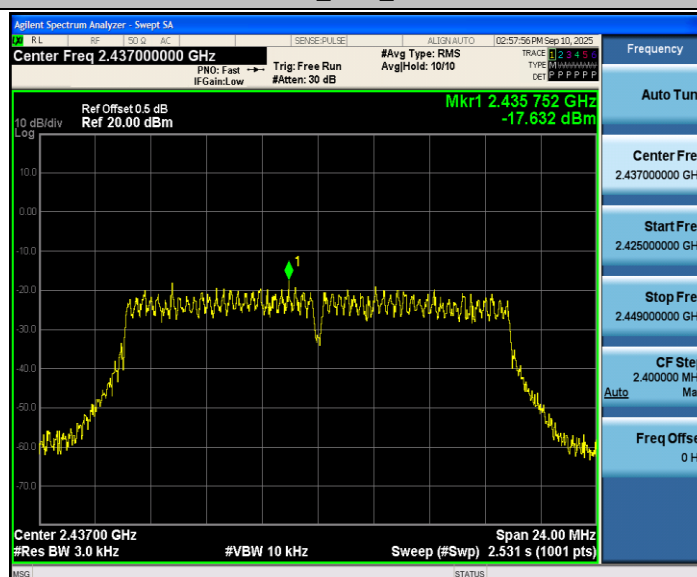
11B_Ant1_2462



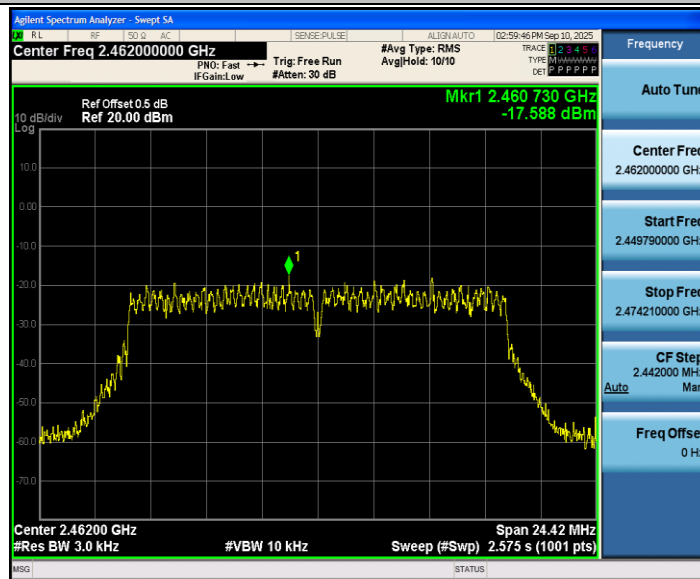
11G_Ant1_2412



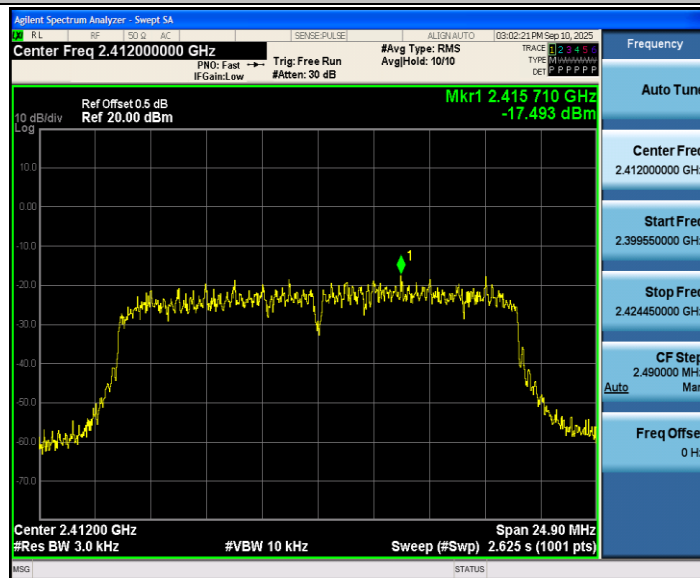
11G_Ant1_2437



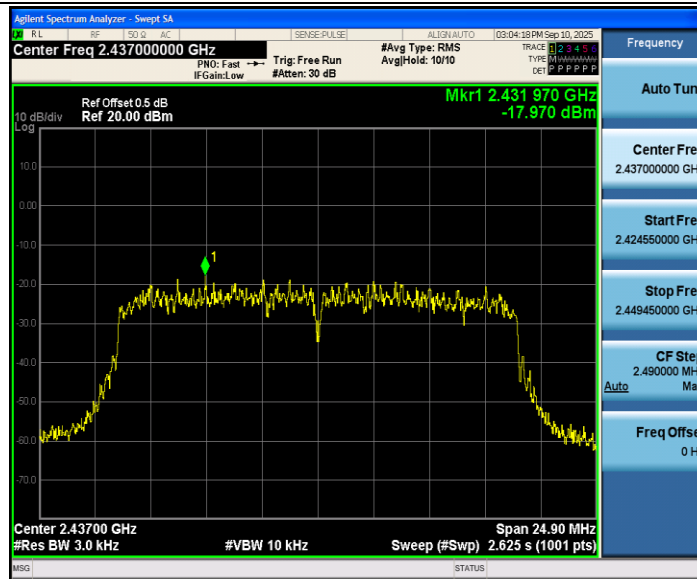
11G_Ant1_2462



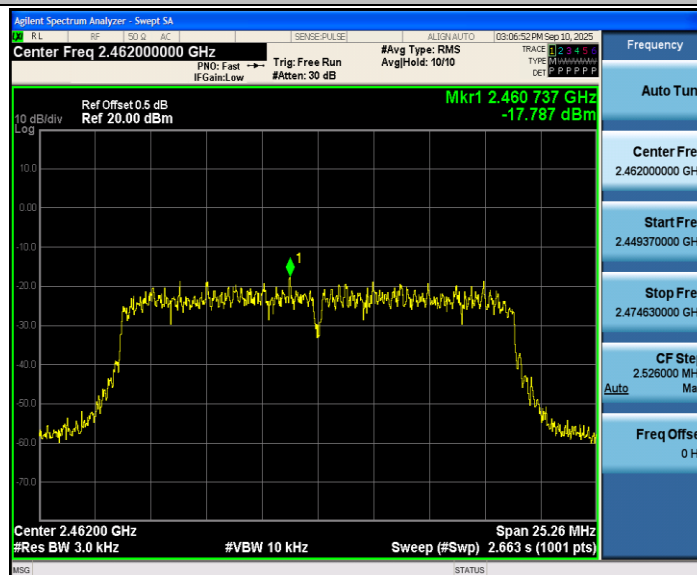
11N20SISO_Ant1_2412



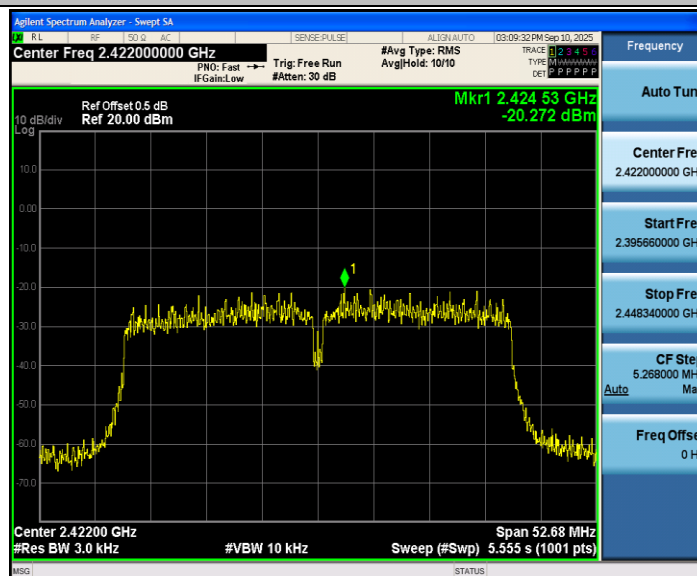
11N20SISO_Ant1_2437



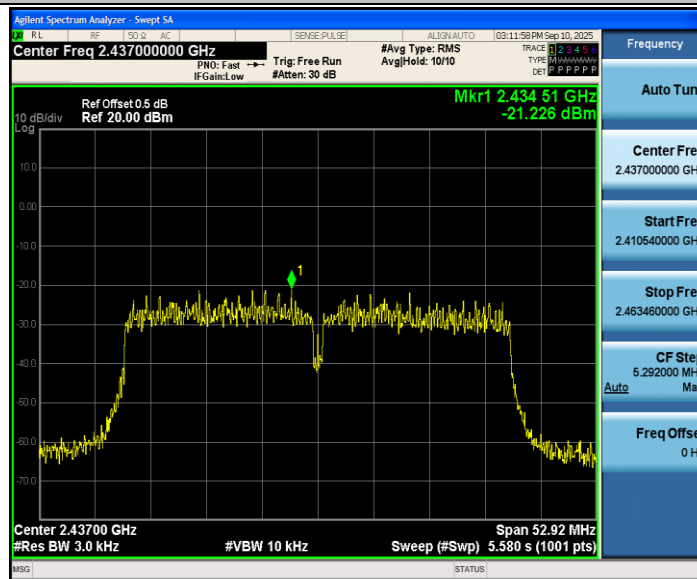
11N20SISO_Ant1_2462



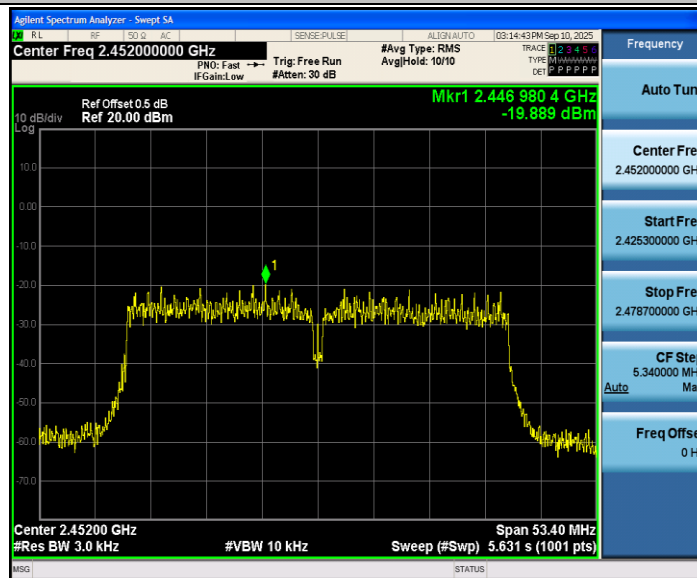
11N40SISO_Ant1_2422



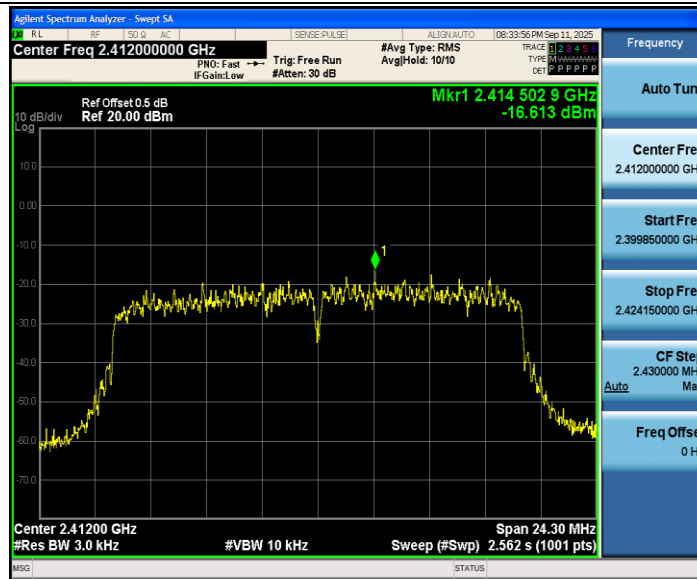
11N40SISO_Ant1_2437



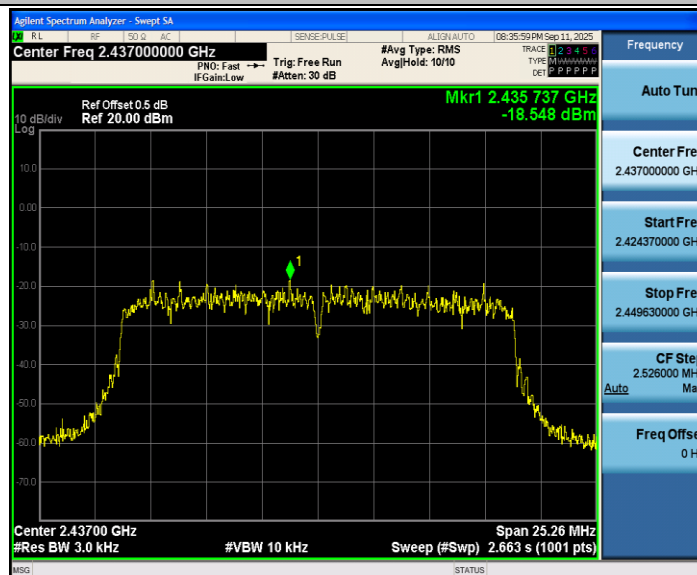
11N40SISO_Ant1_2452



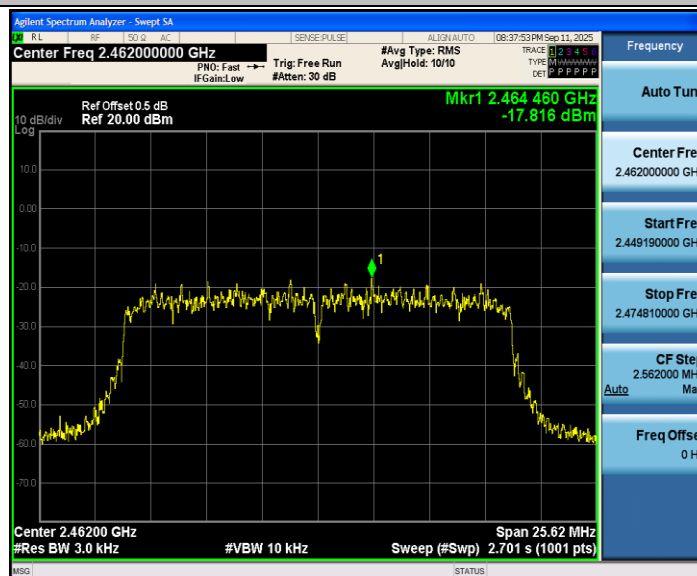
11AX20SISO_Ant1_2412



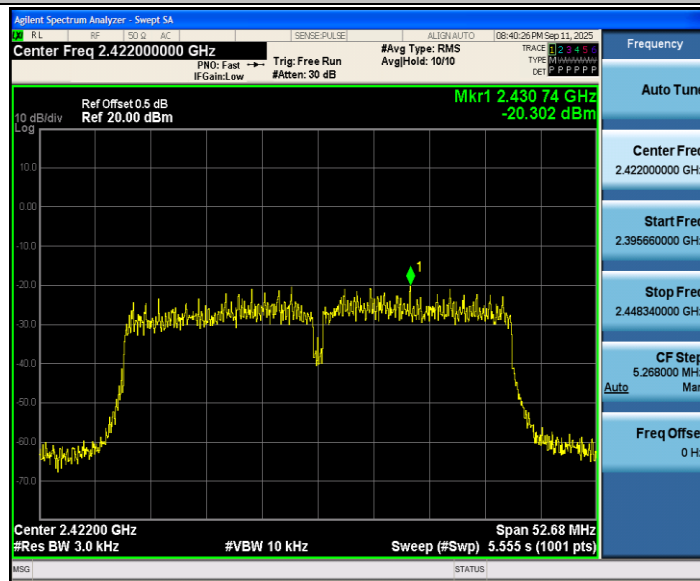
11AX20SISO_Ant1_2437



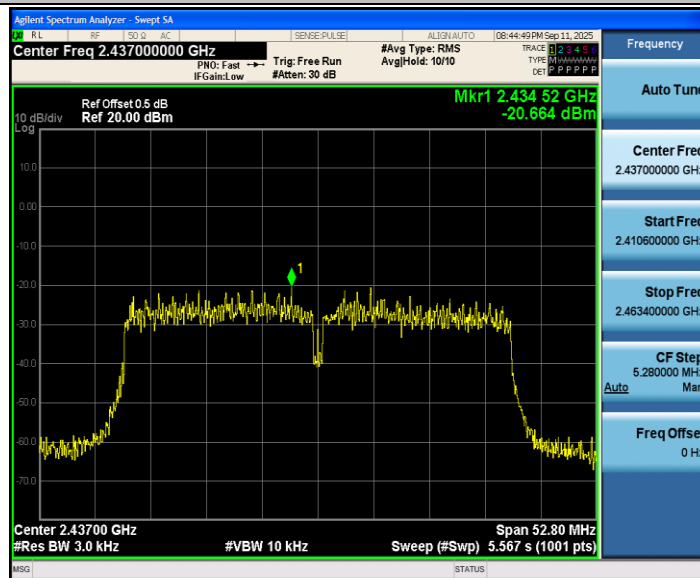
11AX20SISO_Ant1_2462



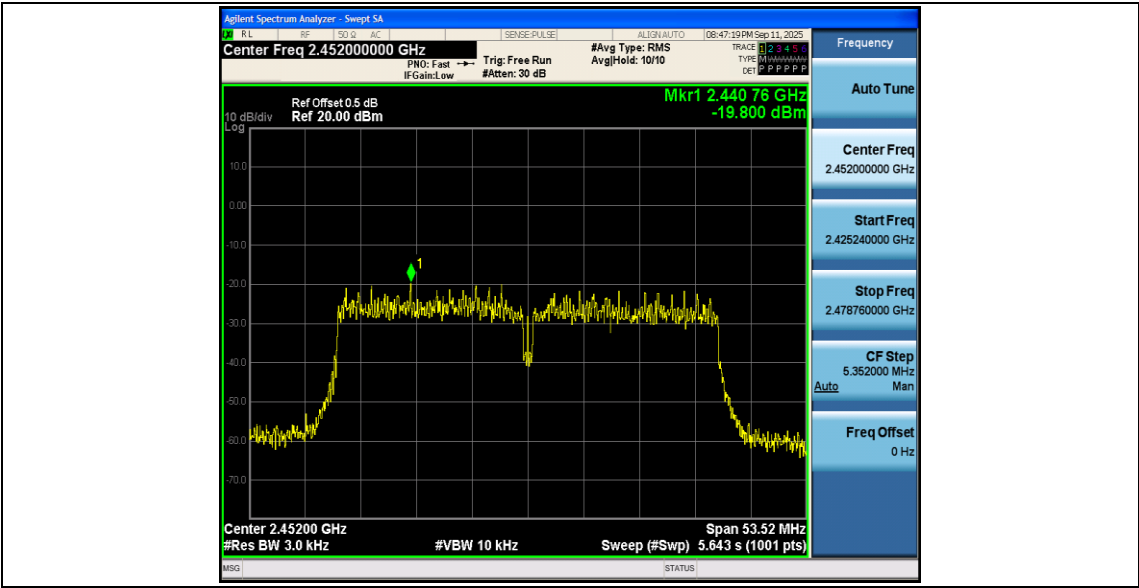
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.12	-51.92	≤-17.88	PASS
		High	2462	2.03	-57.23	≤-17.97	PASS
11G	Ant1	Low	2412	-2.49	-39.59	≤-22.49	PASS
		High	2462	-3.06	-49.13	≤-23.06	PASS
11N20SISO	Ant1	Low	2412	-2.48	-35.86	≤-22.48	PASS
		High	2462	-3.06	-45.58	≤-23.06	PASS
11N40SISO	Ant1	Low	2422	-5.38	-41.33	≤-25.38	PASS
		High	2452	-5.70	-41.56	≤-25.7	PASS
11AX20SISO	Ant1	Low	2412	-2.58	-37.68	≤-22.58	PASS
		High	2462	-3.23	-46.55	≤-23.23	PASS
11AX40SISO	Ant1	Low	2422	-5.39	-40.71	≤-25.39	PASS
		High	2452	-5.64	-42.45	≤-25.64	PASS