

Appendix A

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Network Player

Test Model: 9000NQ

Environmental Conditions

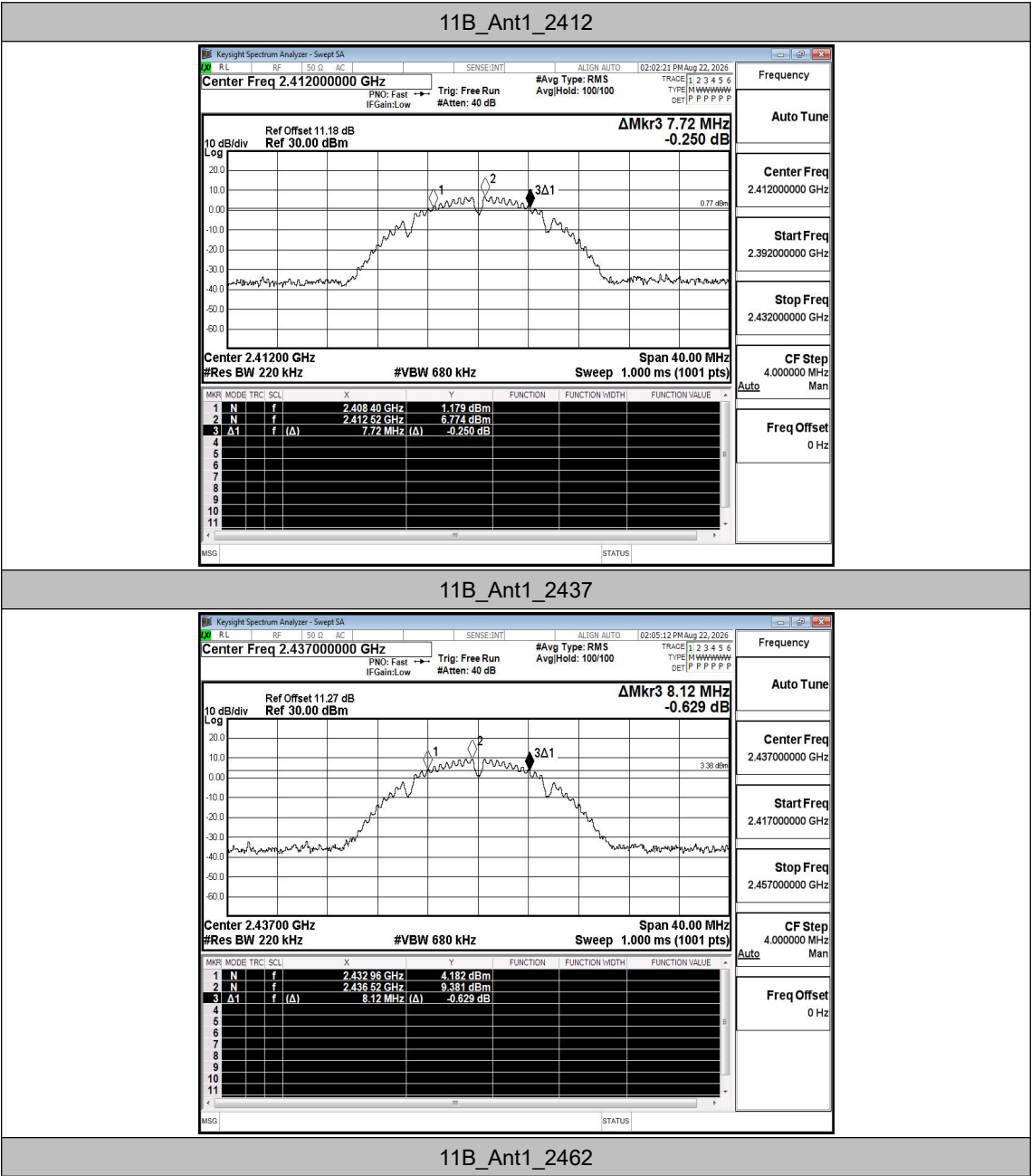
Temperature:	24.2° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

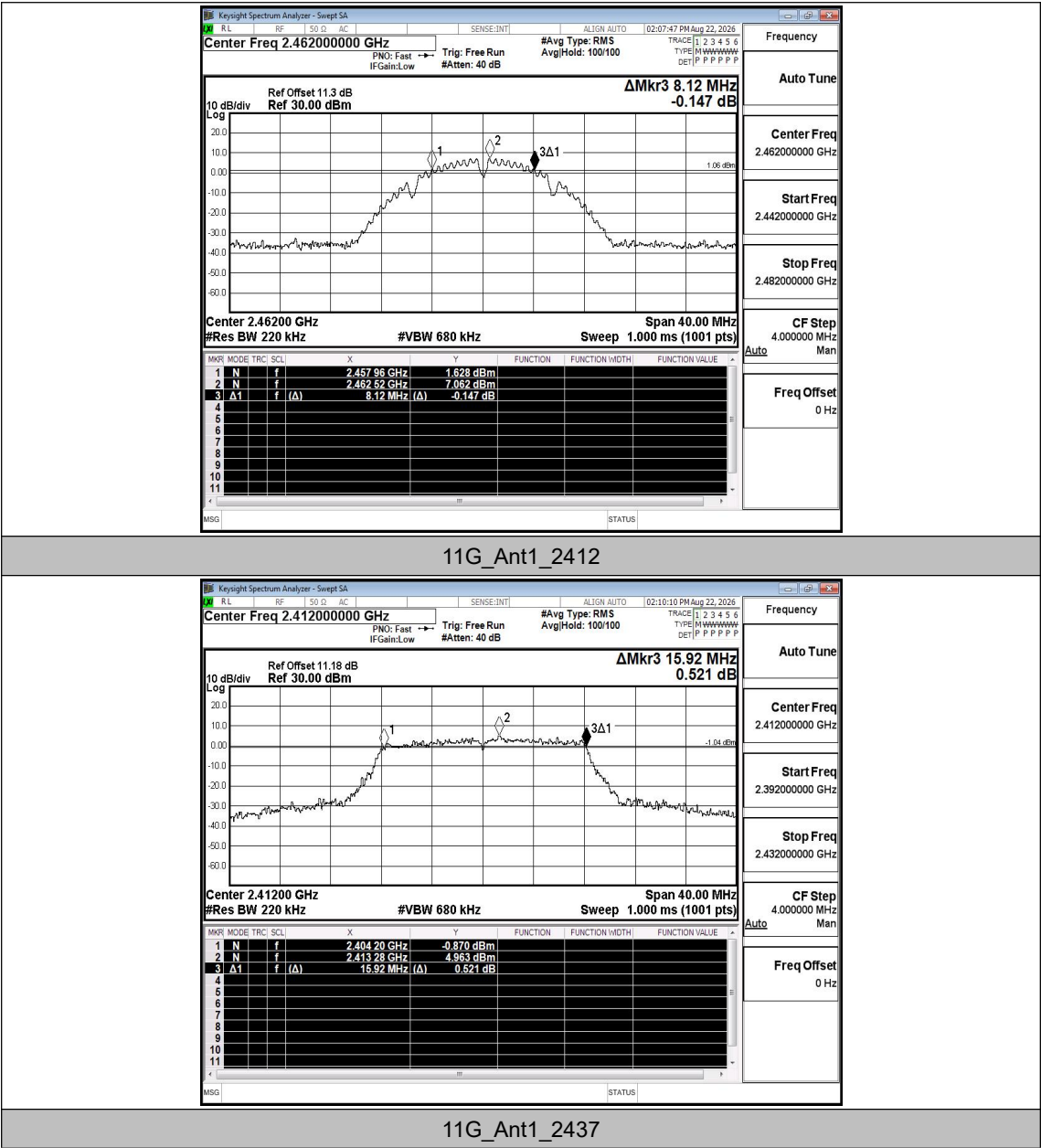
A.1 6dB Bandwidth

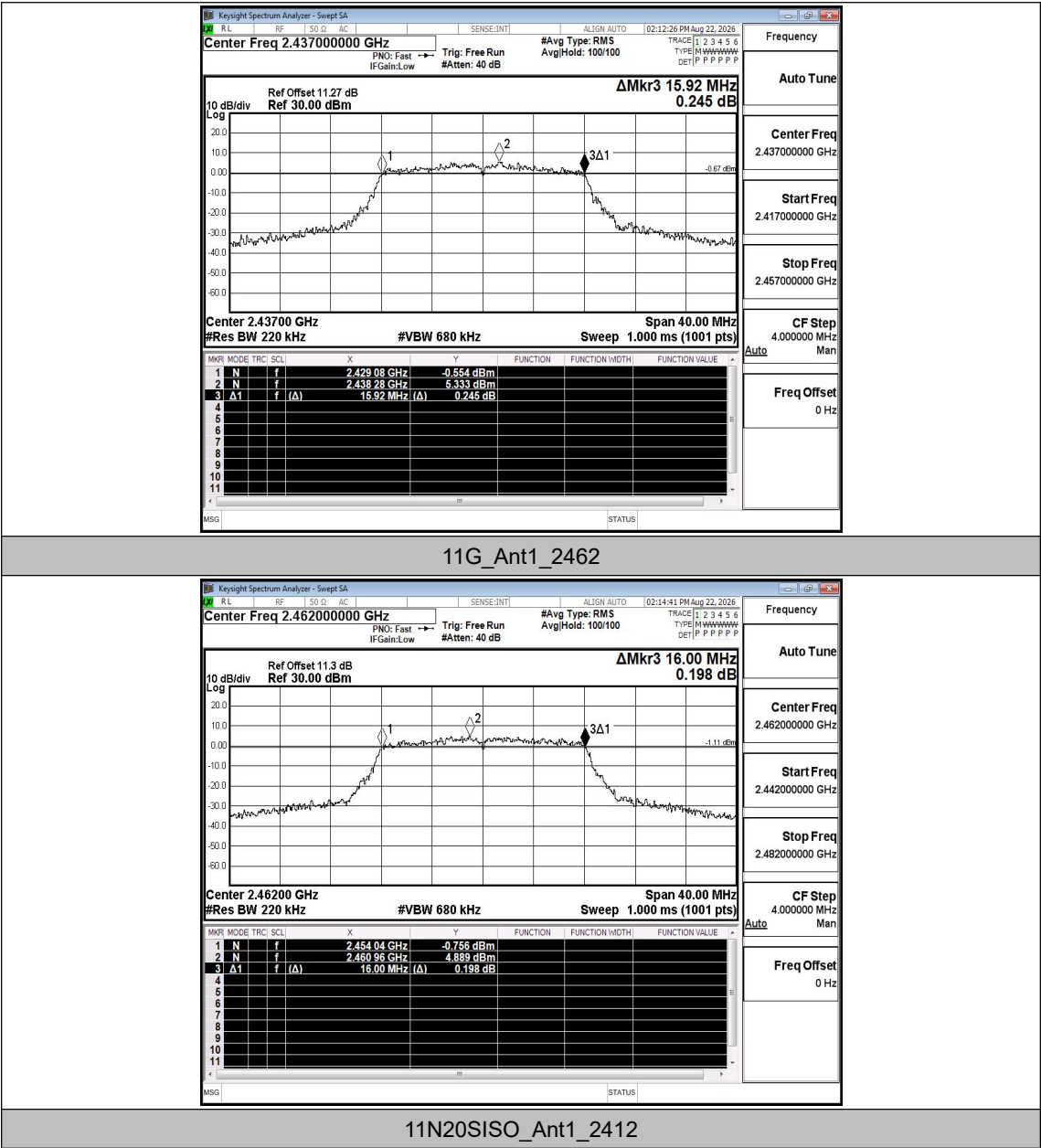
Test Result

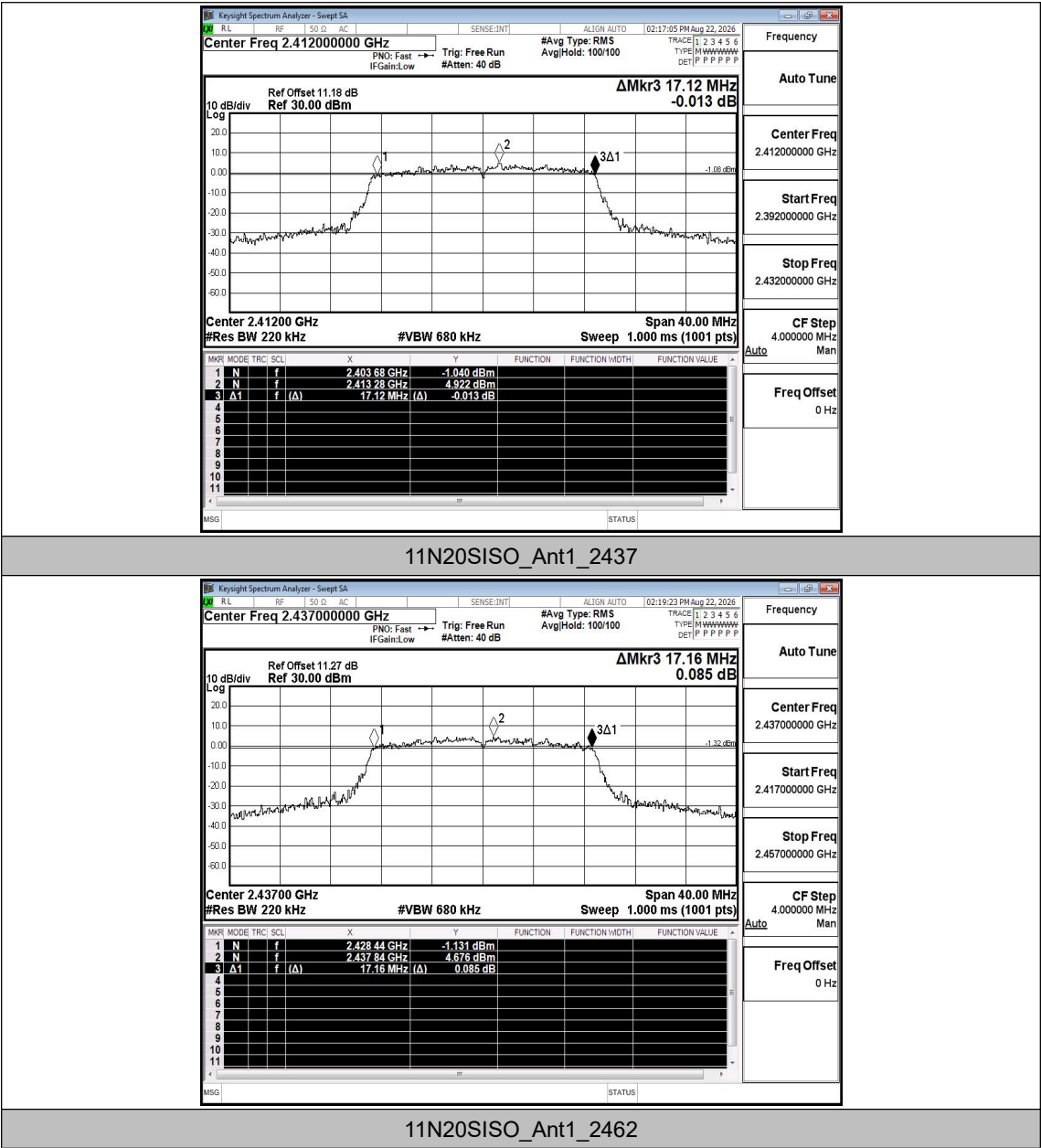
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.720	2408.400	2416.120	0.5	PASS
		2437	8.120	2432.960	2441.080	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	15.920	2404.200	2420.120	0.5	PASS
		2437	15.920	2429.080	2445.000	0.5	PASS
		2462	16.000	2454.040	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.120	2403.680	2420.800	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	17.120	2453.480	2470.600	0.5	PASS
11N40SISO	Ant1	2422	29.920	2410.000	2439.920	0.5	PASS
		2437	31.440	2422.760	2454.200	0.5	PASS
		2452	36.160	2433.840	2470.000	0.5	PASS

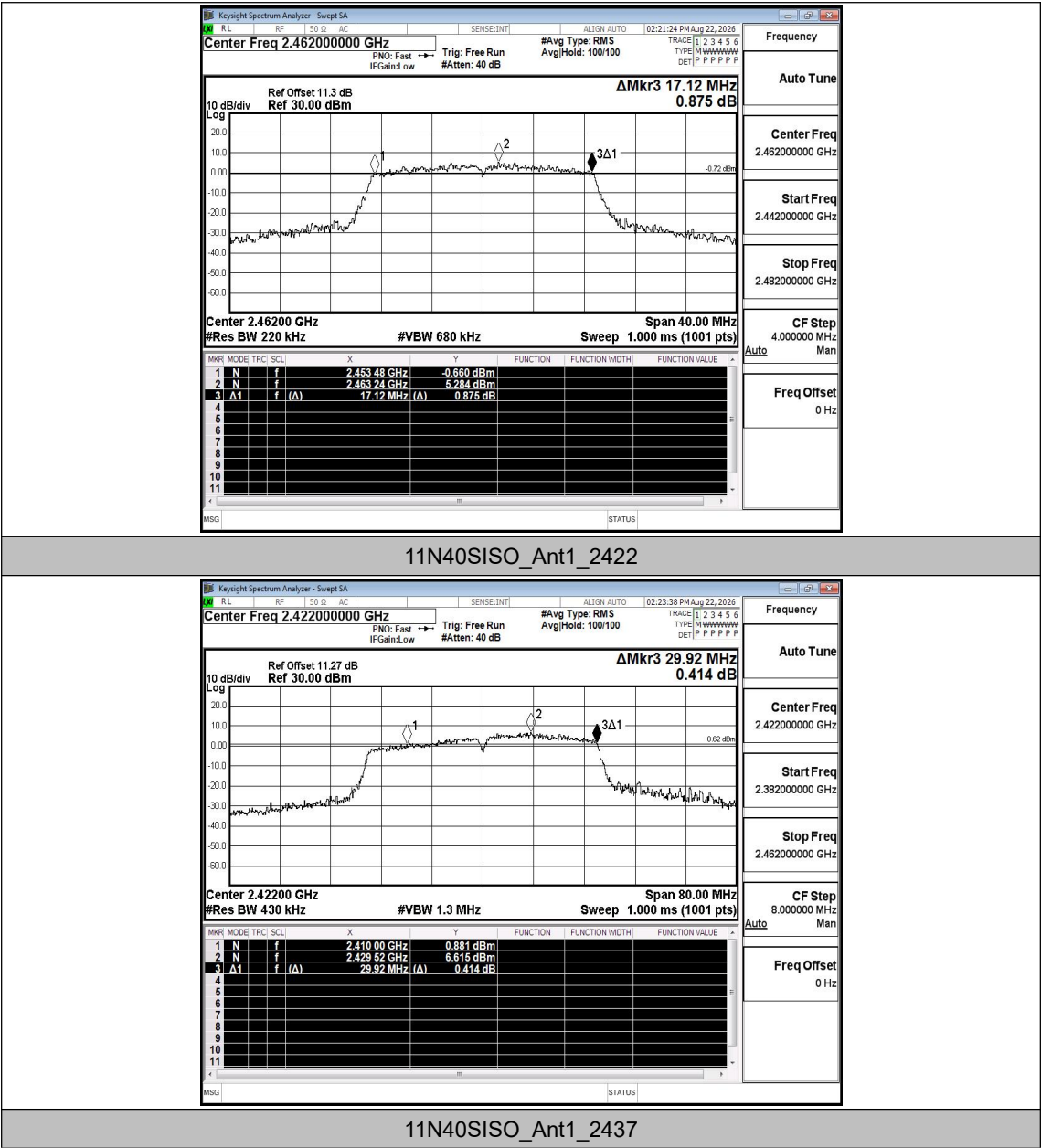
Test Graphs

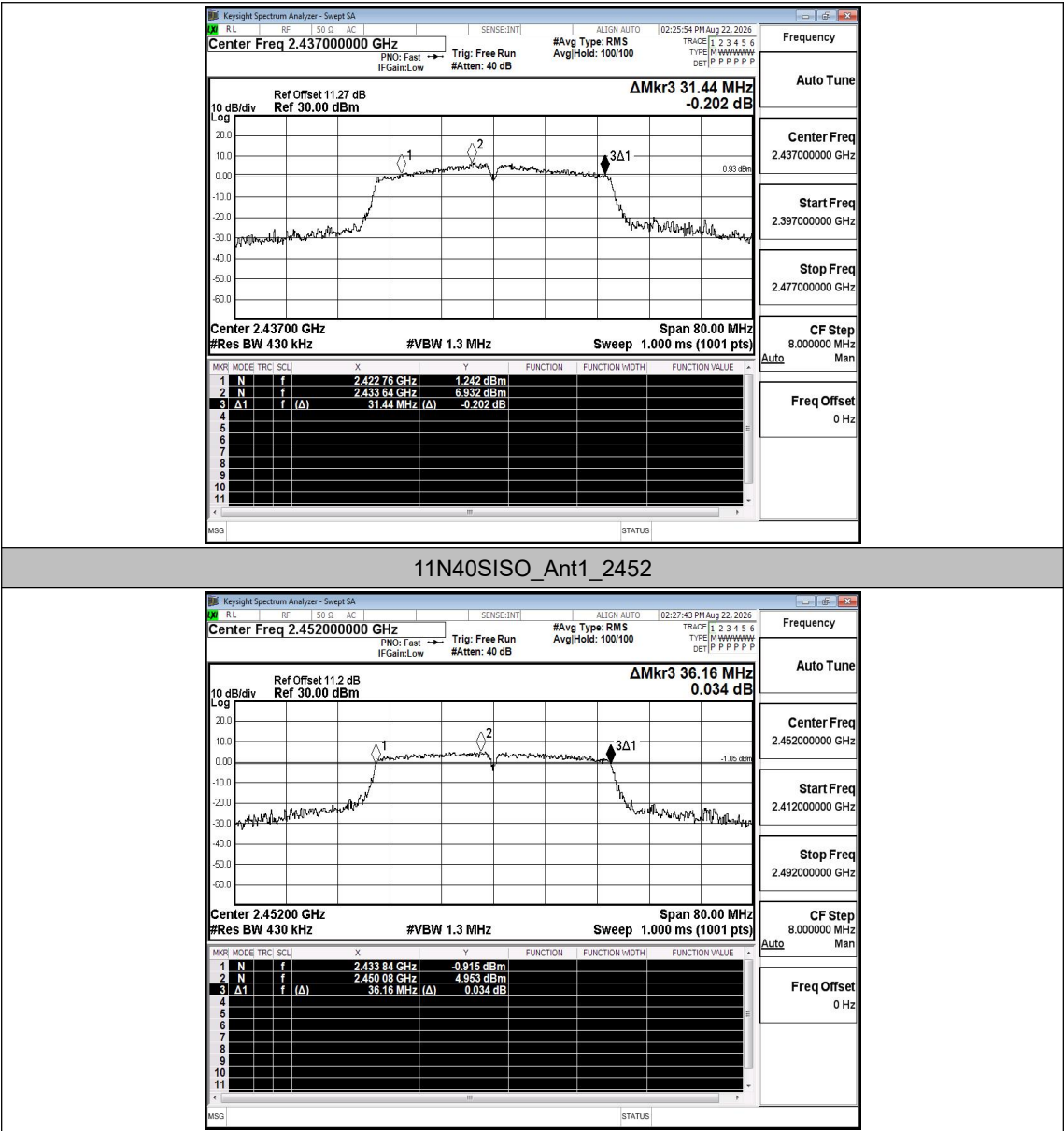












A.2 Maximum Average conducted output power

Test Result

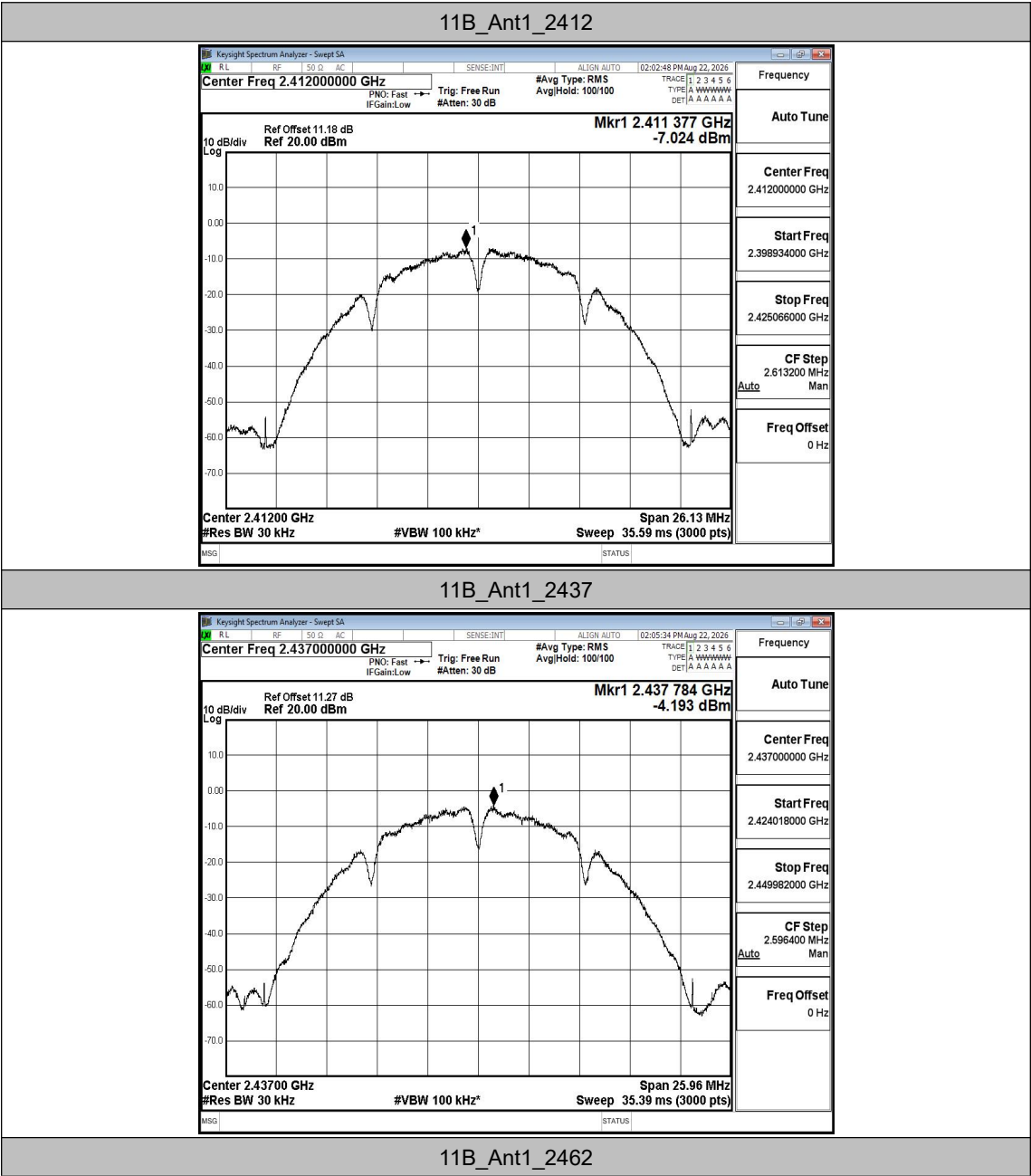
TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	13.79	0.02	13.81	≤30.00	PASS
		2437	16.32	0.02	16.34	≤30.00	PASS
		2462	14.04	0.02	14.06	≤30.00	PASS
11G	Ant1	2412	14.14	0.12	14.26	≤30.00	PASS
		2437	14.47	0.15	14.62	≤30.00	PASS
		2462	14.25	0.12	14.37	≤30.00	PASS
11N20SISO	Ant1	2412	14.13	0.13	14.26	≤30.00	PASS
		2437	14.29	0.13	14.42	≤30.00	PASS
		2462	14.08	0.16	14.24	≤30.00	PASS
11N40SISO	Ant1	2422	15.32	0.32	15.64	≤30.00	PASS
		2437	15.48	0.26	15.74	≤30.00	PASS
		2452	15.35	0.26	15.61	≤30.00	PASS

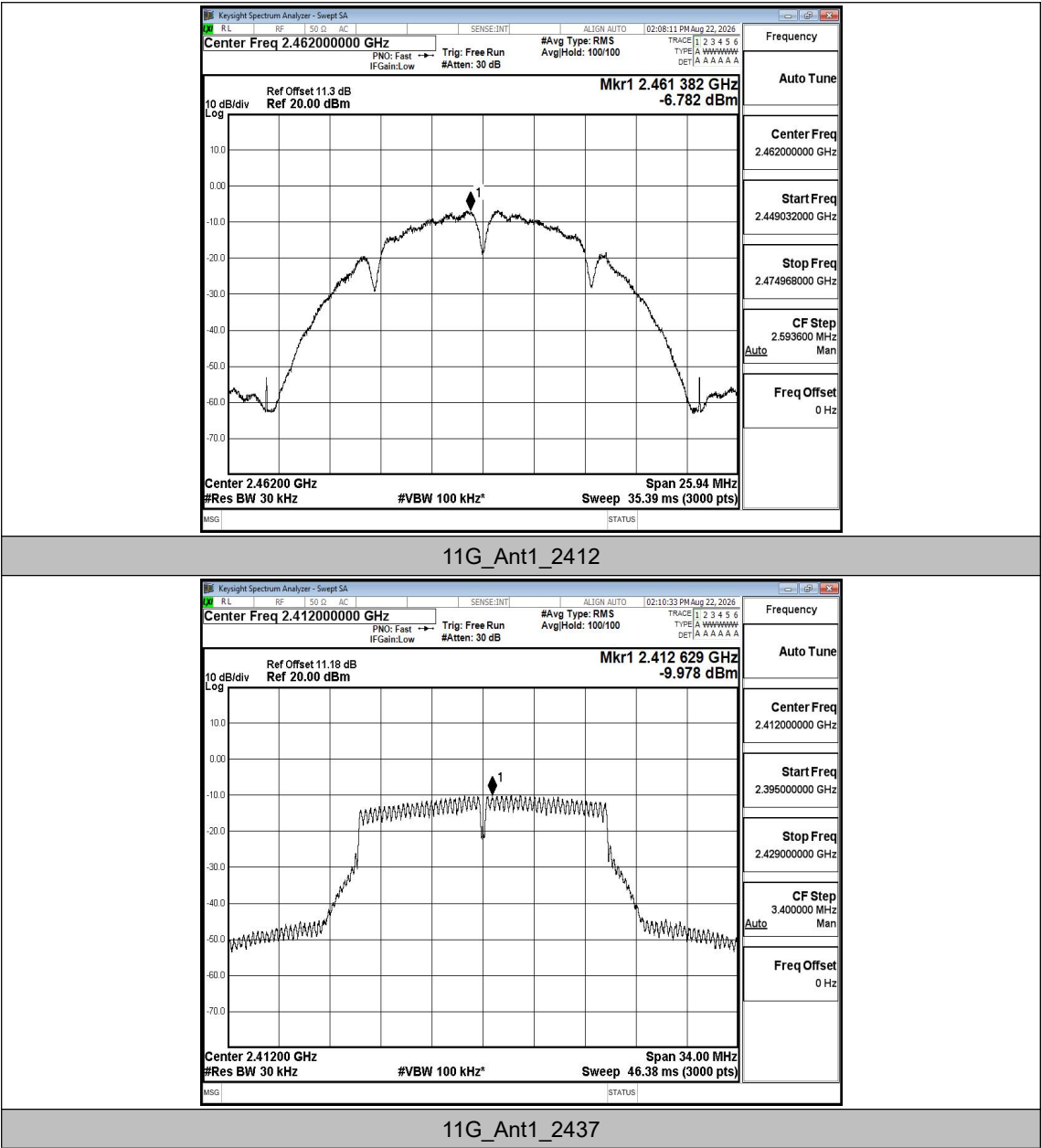
A.3 Maximum power spectral density

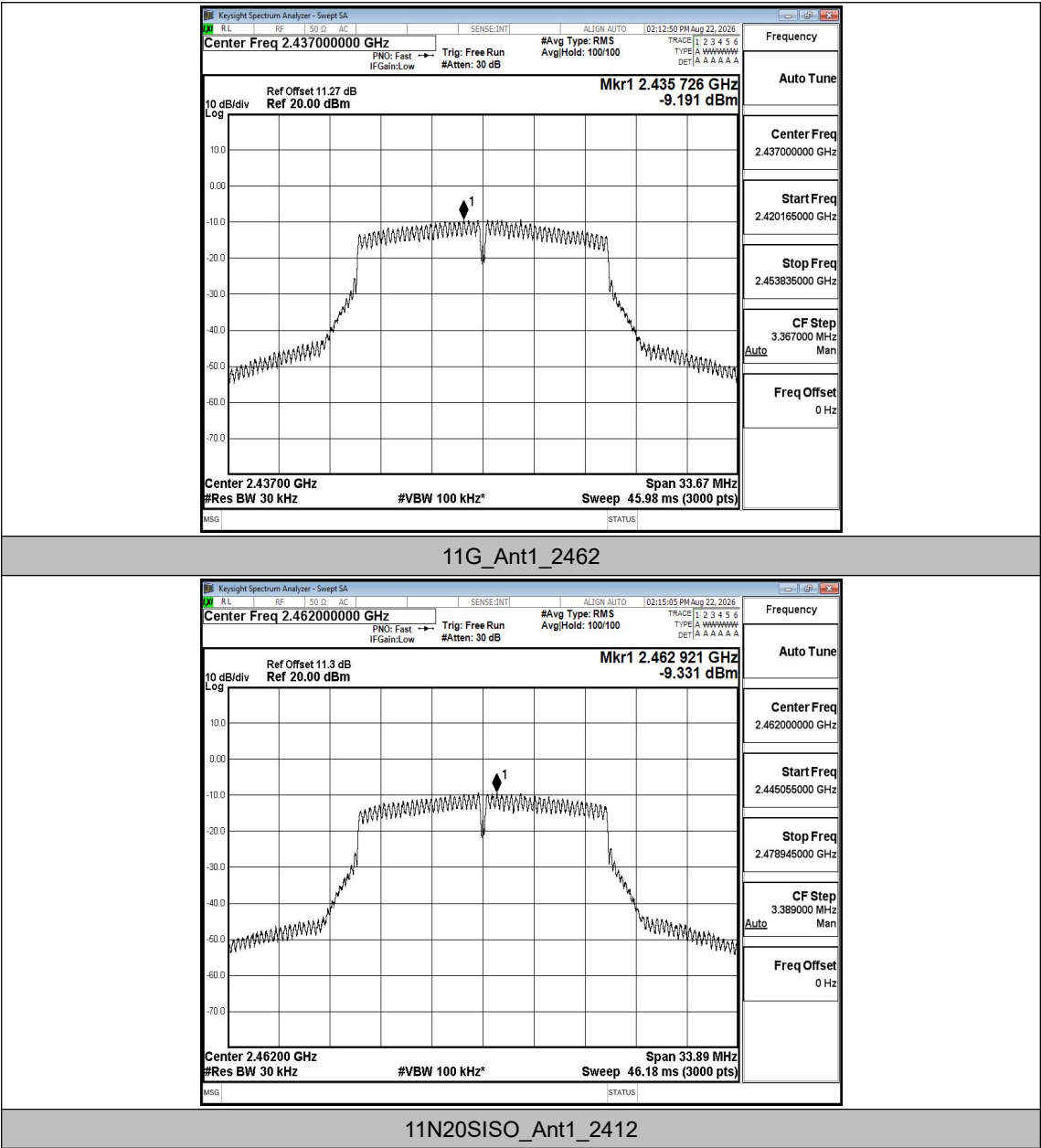
Test Result

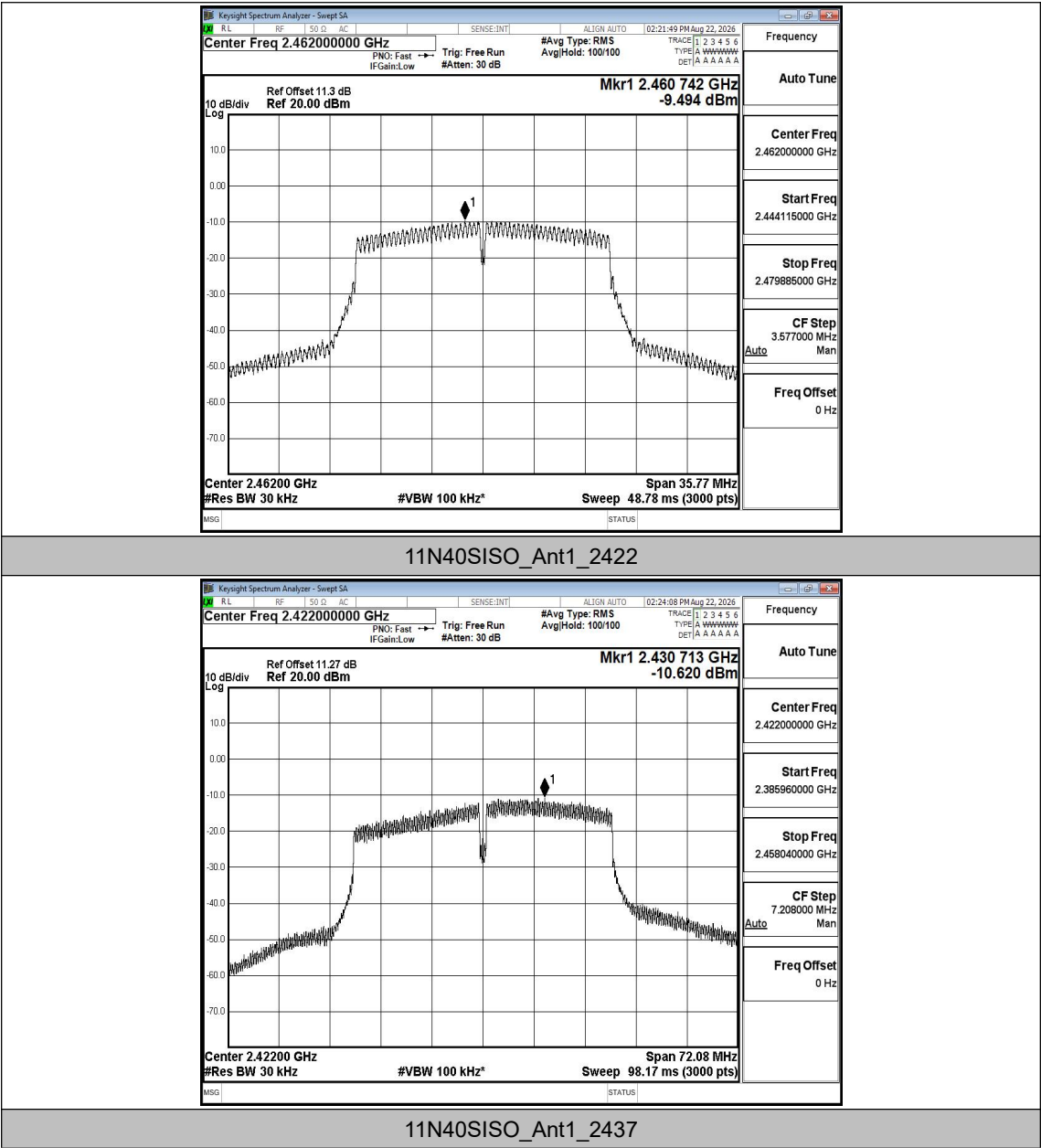
TestMode	Antenna	Frequency[MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.02	0.02	-7.00	-17.00	≤8.00	PASS
		2437	-4.19	0.02	-4.17	-14.17	≤8.00	PASS
		2462	-6.78	0.02	-6.76	-16.76	≤8.00	PASS
11G	Ant1	2412	-9.98	0.12	-9.86	-19.86	≤8.00	PASS
		2437	-9.19	0.15	-9.04	-19.04	≤8.00	PASS
		2462	-9.33	0.12	-9.21	-19.21	≤8.00	PASS
11N20SISO	Ant1	2412	-10.1	0.13	-9.97	-19.97	≤8.00	PASS
		2437	-9.55	0.13	-9.42	-19.42	≤8.00	PASS
		2462	-9.49	0.16	-9.33	-19.33	≤8.00	PASS
11N40SISO	Ant1	2422	-10.62	0.32	-10.30	-20.30	≤8.00	PASS
		2437	-10.83	0.26	-10.57	-20.57	≤8.00	PASS
		2452	-11.58	0.26	-11.32	-21.32	≤8.00	PASS

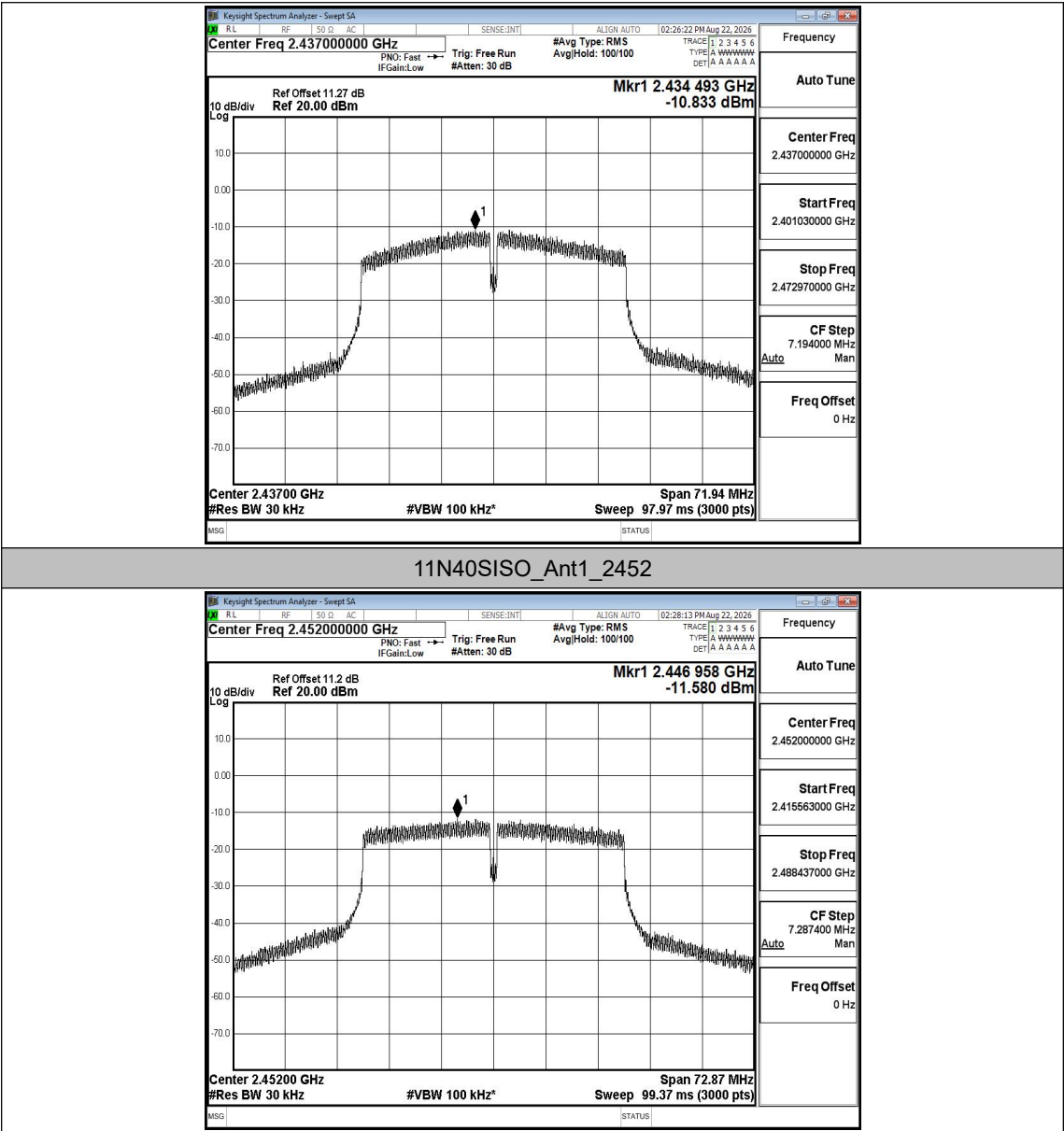
Test Graphs











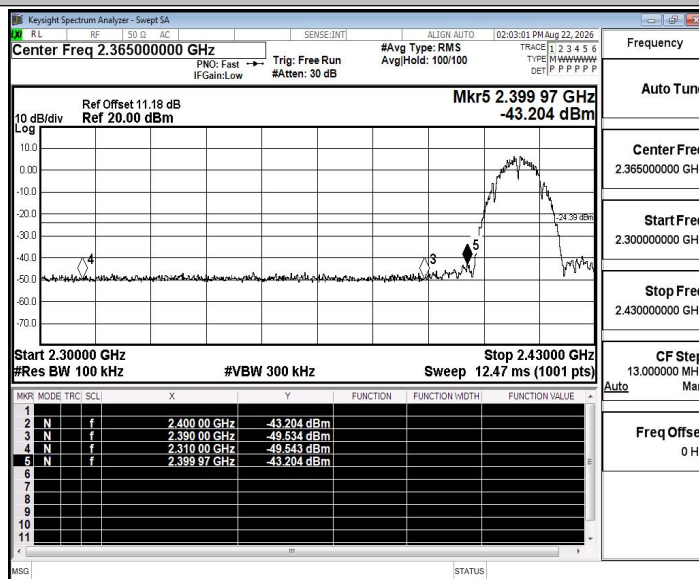
A.4 Band edge measurements

Test Result

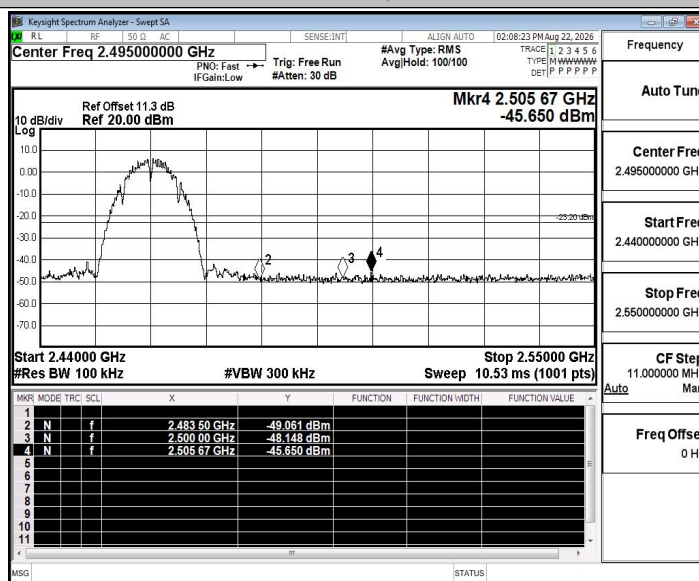
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.61	-43.2	≤-24.39	PASS
		High	2462	6.80	-45.65	≤-23.2	PASS
11G	Ant1	Low	2412	3.65	-30.86	≤-26.35	PASS
		High	2462	3.85	-42.55	≤-26.15	PASS
11N20SISO	Ant1	Low	2412	3.46	-31.63	≤-26.54	PASS
		High	2462	3.28	-40.85	≤-26.72	PASS
11N40SISO	Ant1	Low	2422	3.18	-31.81	≤-26.82	PASS
		High	2452	2.00	-30.5	≤-28	PASS

Test Graphs

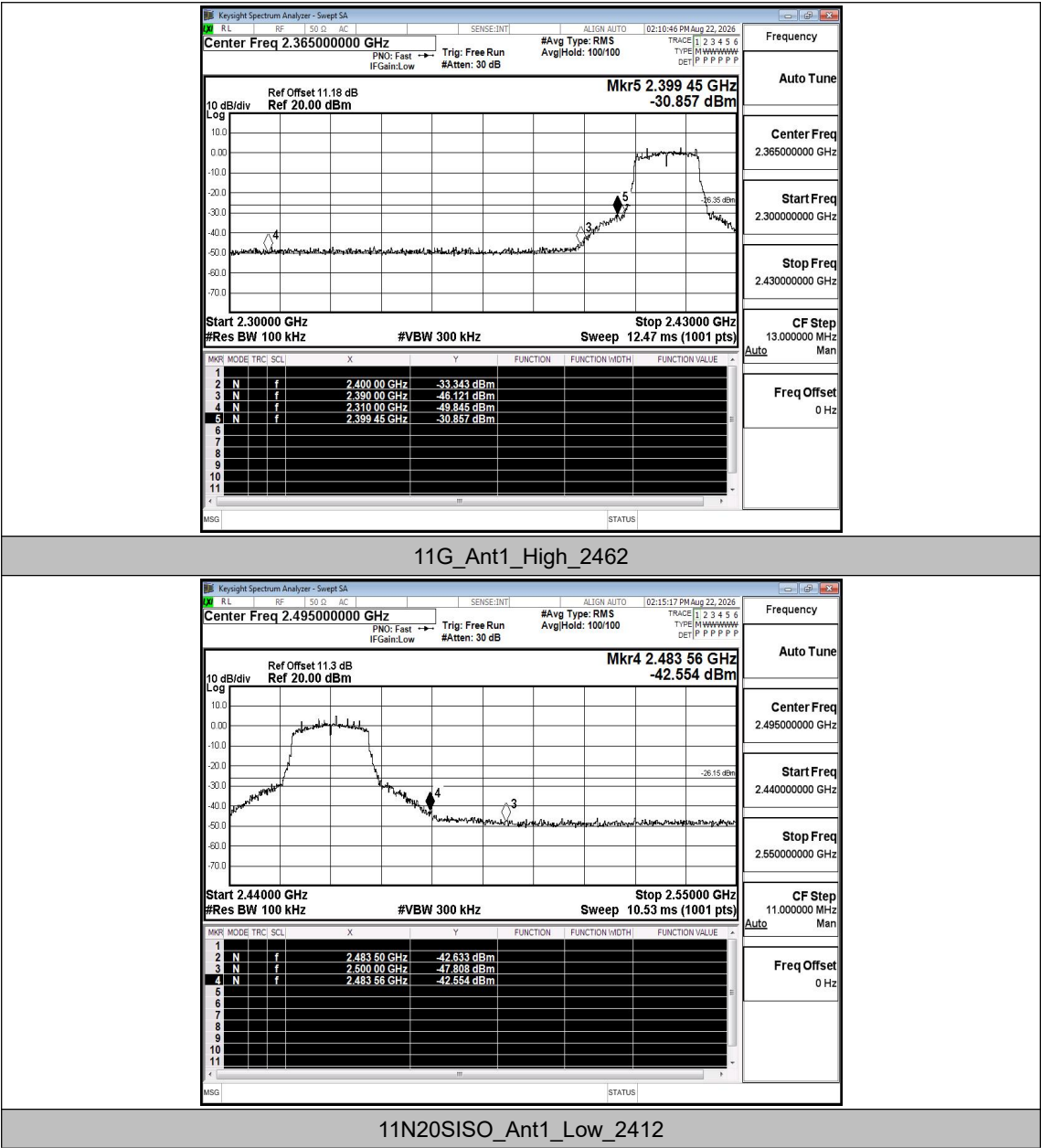
11B_Ant1_Low_2412



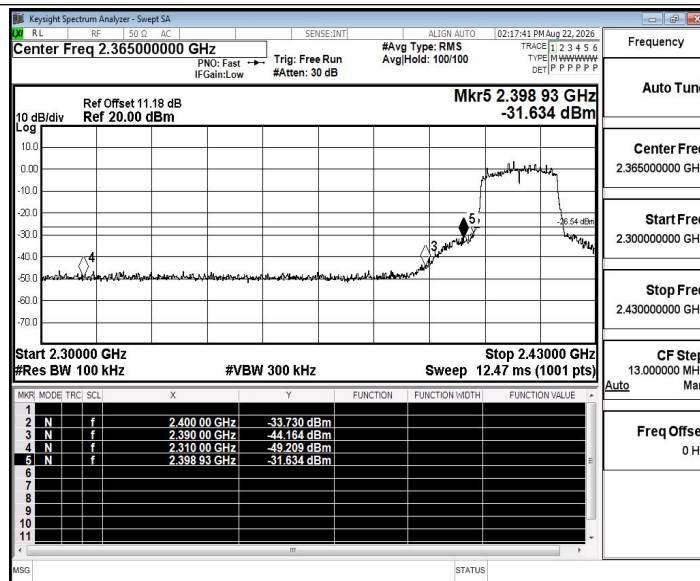
11B_Ant1_High_2462



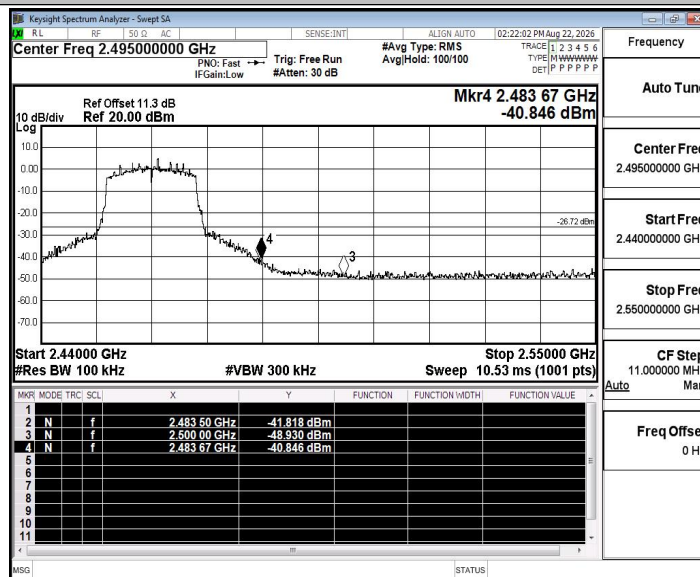
11G_Ant1_Low_2412



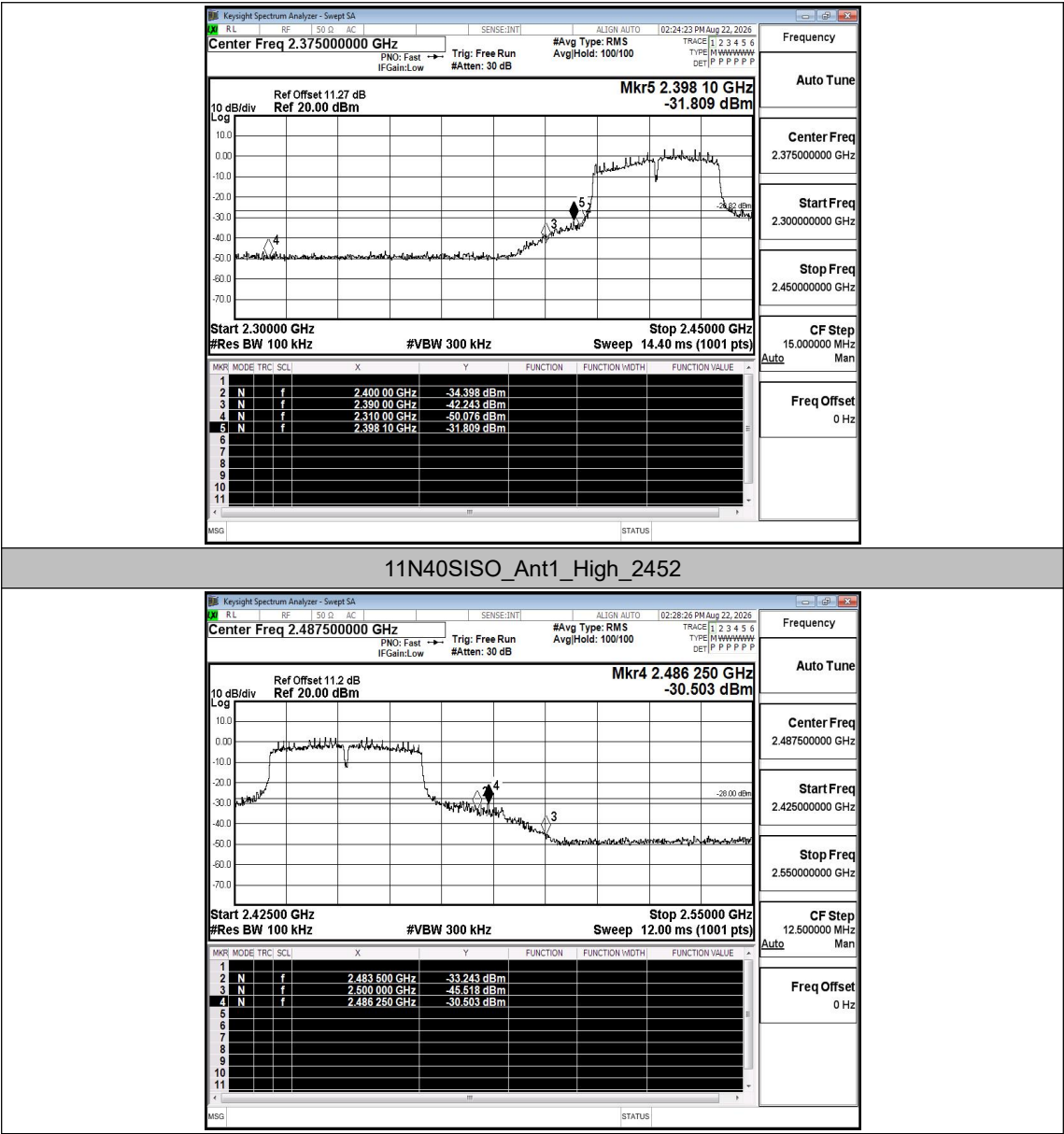
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.85	4.85	---	PASS
			30~1000	4.85	-69.82	≤-25.15	PASS
			1000~26500	4.85	-37.08	≤-25.15	PASS
		2437	Reference	8.56	8.56	---	PASS
			30~1000	8.56	-69.69	≤-21.44	PASS
			1000~26500	8.56	-39.28	≤-21.44	PASS
		2462	Reference	6.07	6.07	---	PASS
			30~1000	6.07	-69.11	≤-23.93	PASS
			1000~26500	6.07	-41.41	≤-23.93	PASS
11G	Ant1	2412	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-70.19	≤-29.05	PASS
			1000~26500	0.95	-44.57	≤-29.05	PASS
		2437	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-69.22	≤-28.87	PASS
			1000~26500	1.13	-43.96	≤-28.87	PASS
		2462	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-69.48	≤-28.9	PASS
			1000~26500	1.10	-45.21	≤-28.9	PASS
11N20SISO	Ant1	2412	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-69.37	≤-27.62	PASS
			1000~26500	2.38	-44.42	≤-27.62	PASS
		2437	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-70.2	≤-29.18	PASS
			1000~26500	0.82	-44.57	≤-29.18	PASS
		2462	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-70.23	≤-26.7	PASS
			1000~26500	3.30	-44.98	≤-26.7	PASS
11N40SISO	Ant1	2422	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-69.19	≤-28.71	PASS
			1000~26500	1.29	-45.07	≤-28.71	PASS
		2437	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-69.81	≤-28.16	PASS
			1000~26500	1.84	-44.7	≤-28.16	PASS
		2452	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-69.63	≤-28.73	PASS
			1000~26500	1.27	-44.33	≤-28.73	PASS

Test Graphs

