

Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Metal Infrared heater

Test Model: US-BR-IK

Environmental Conditions

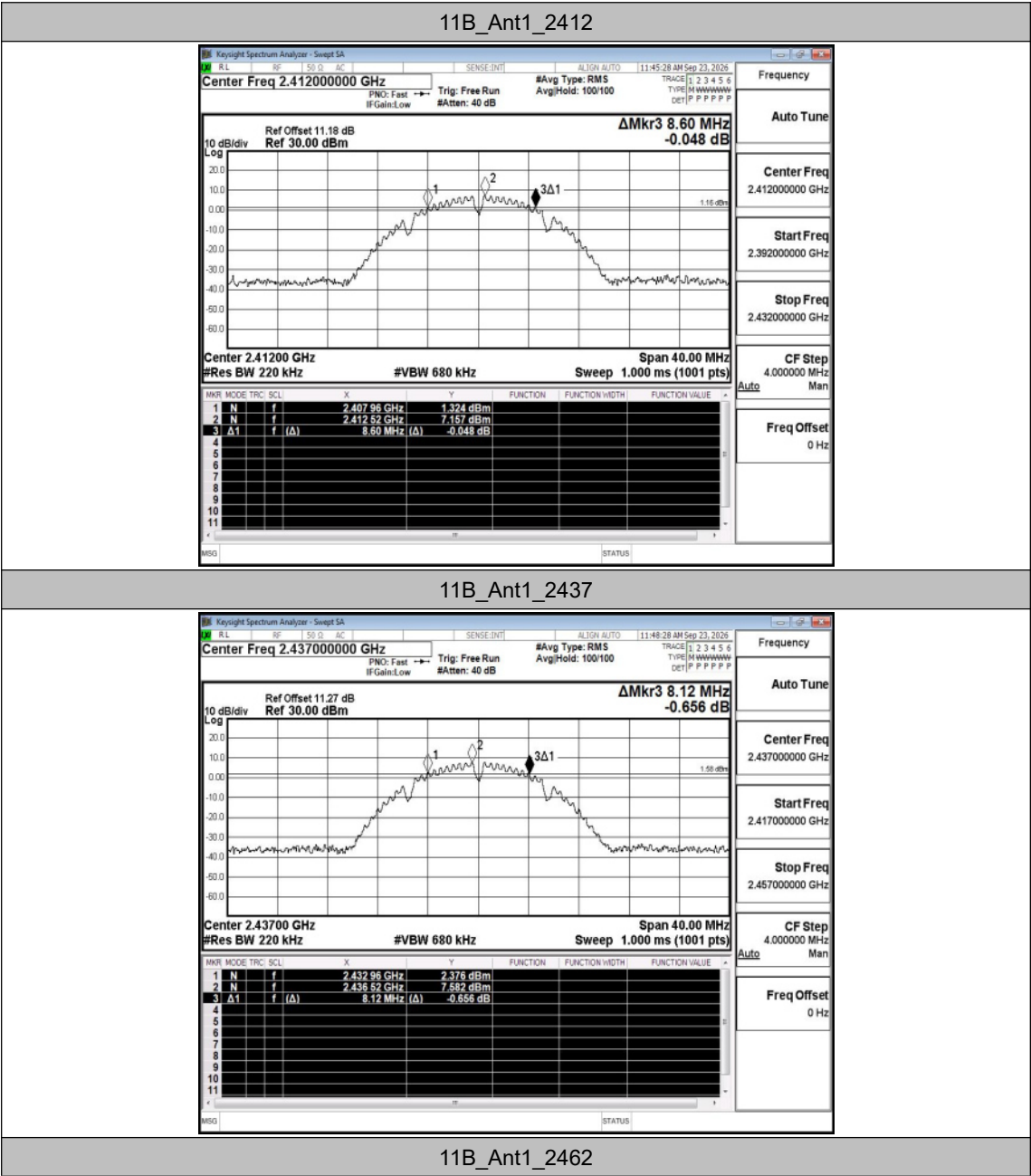
Temperature:	23.4°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

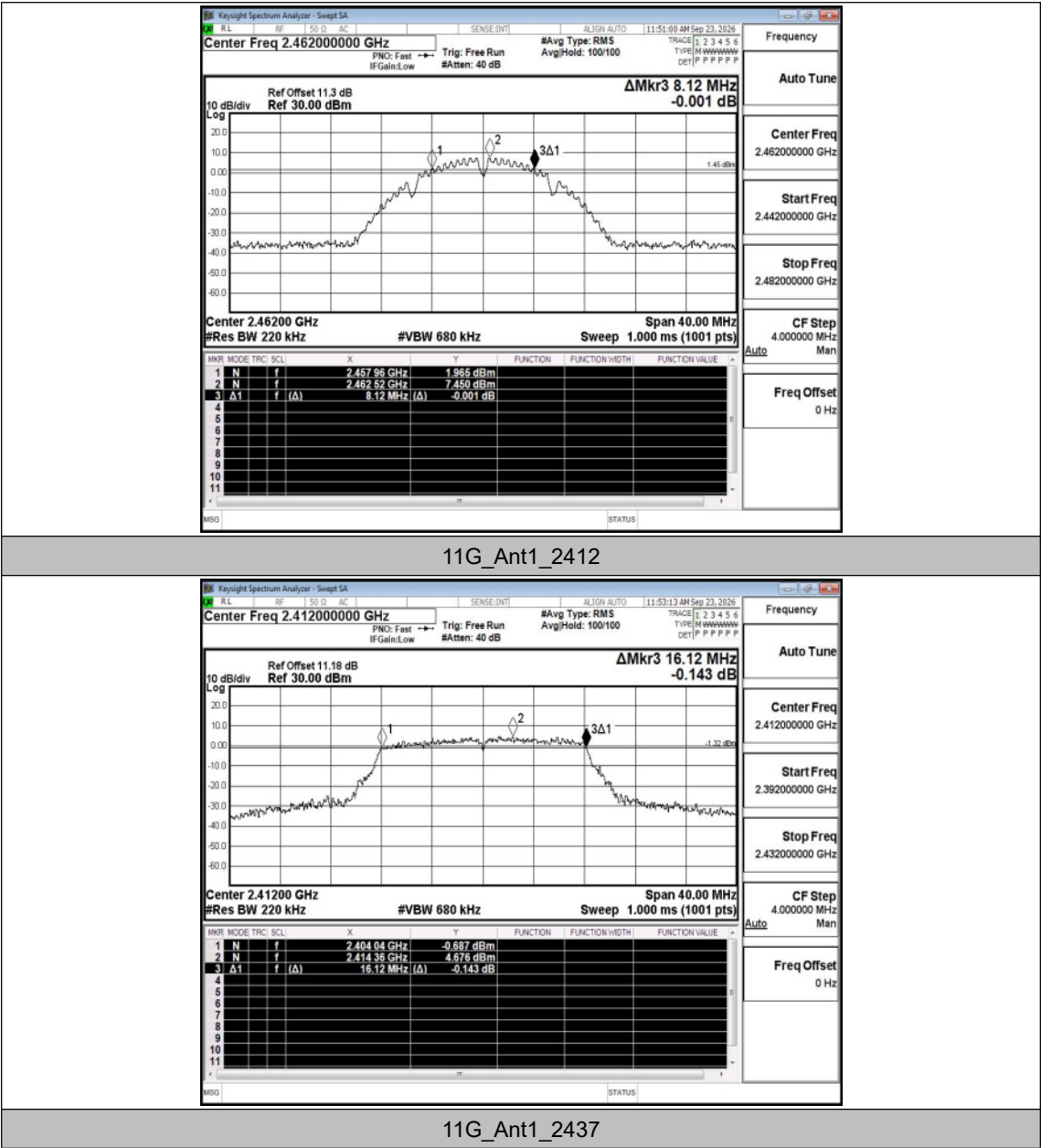
B.1 6dB Bandwidth

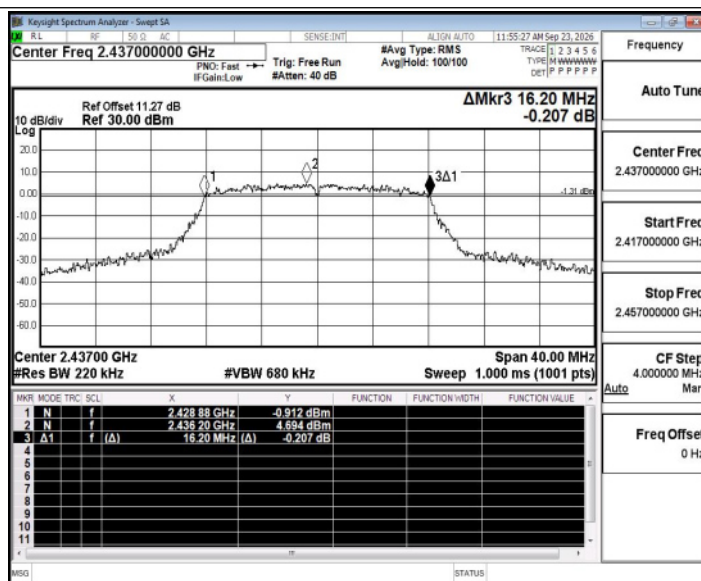
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.960	2416.560	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	16.120	2404.040	2420.160	0.5	PASS
		2437	16.200	2428.880	2445.080	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.120	2403.640	2420.760	0.5	PASS
		2437	16.560	2428.440	2445.000	0.5	PASS
		2462	16.920	2453.640	2470.560	0.5	PASS

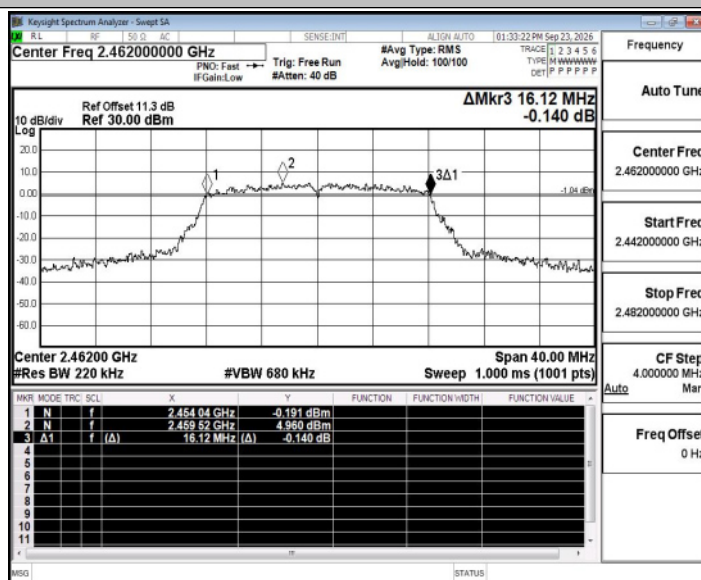
Test Graphs



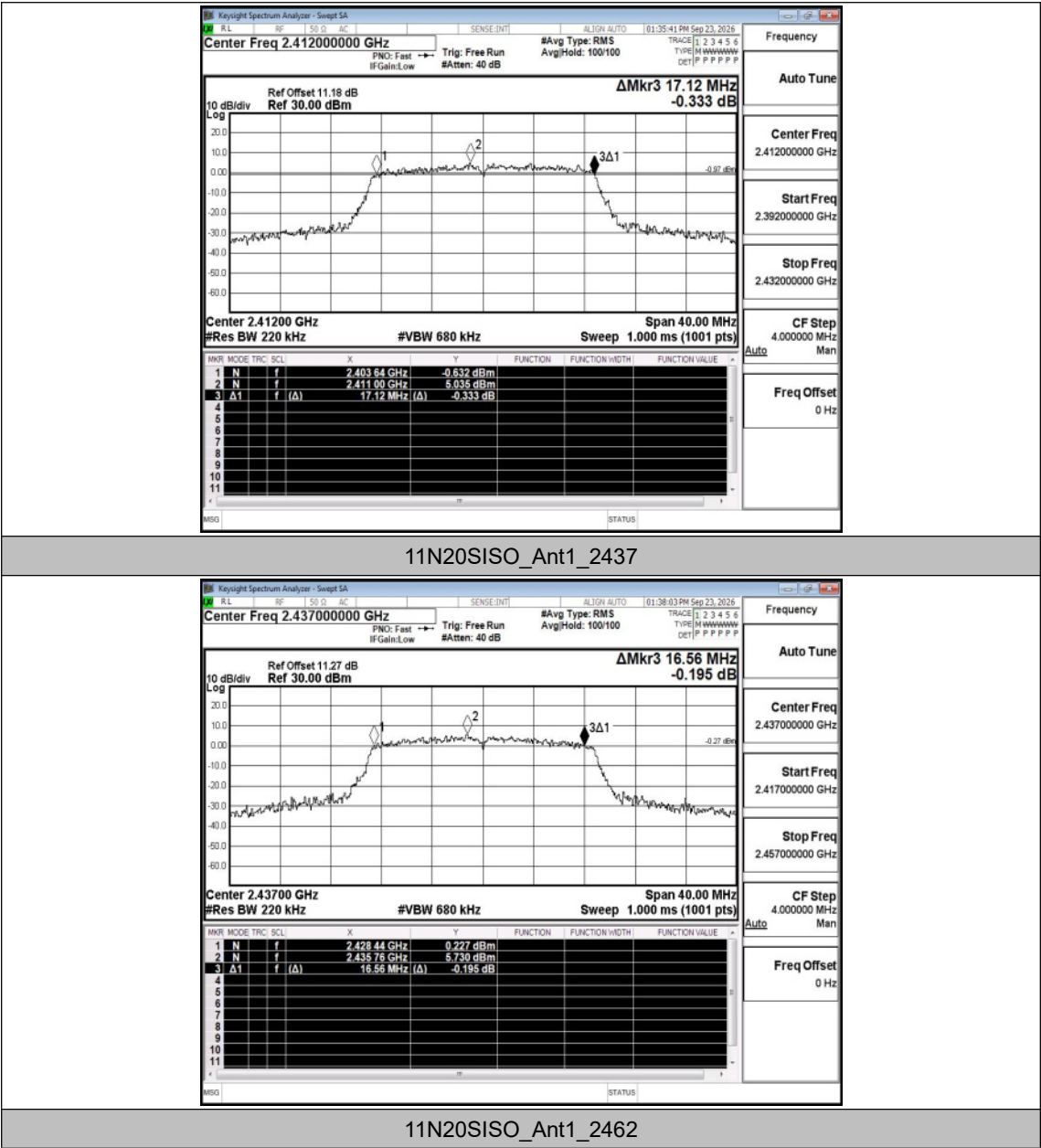


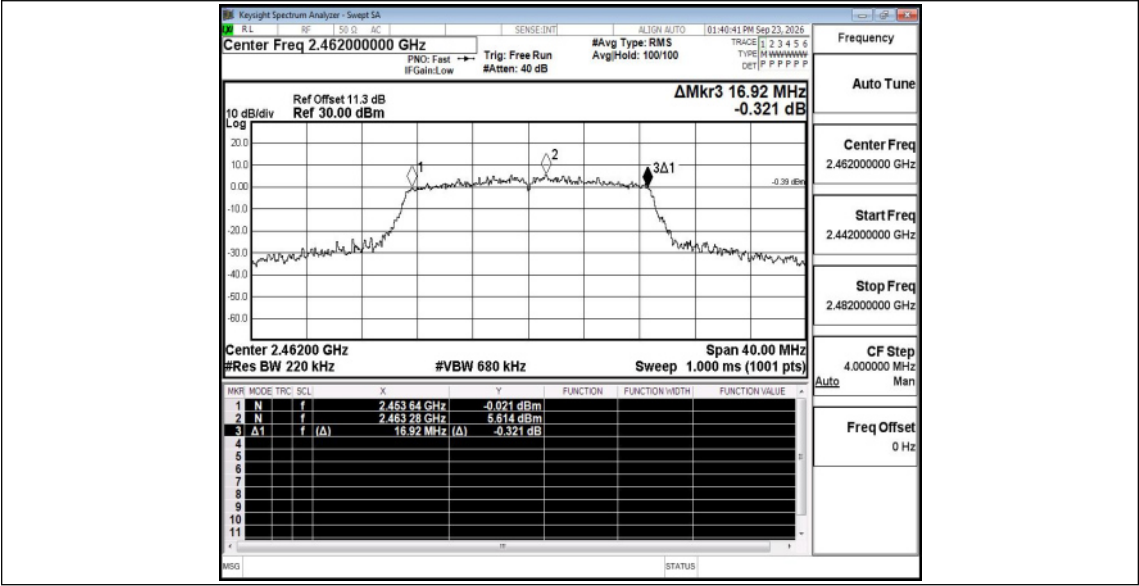


11G Ant1 2462



11N20SISO Ant1 2412





B.2 Maximum Average conducted output power

Test Result

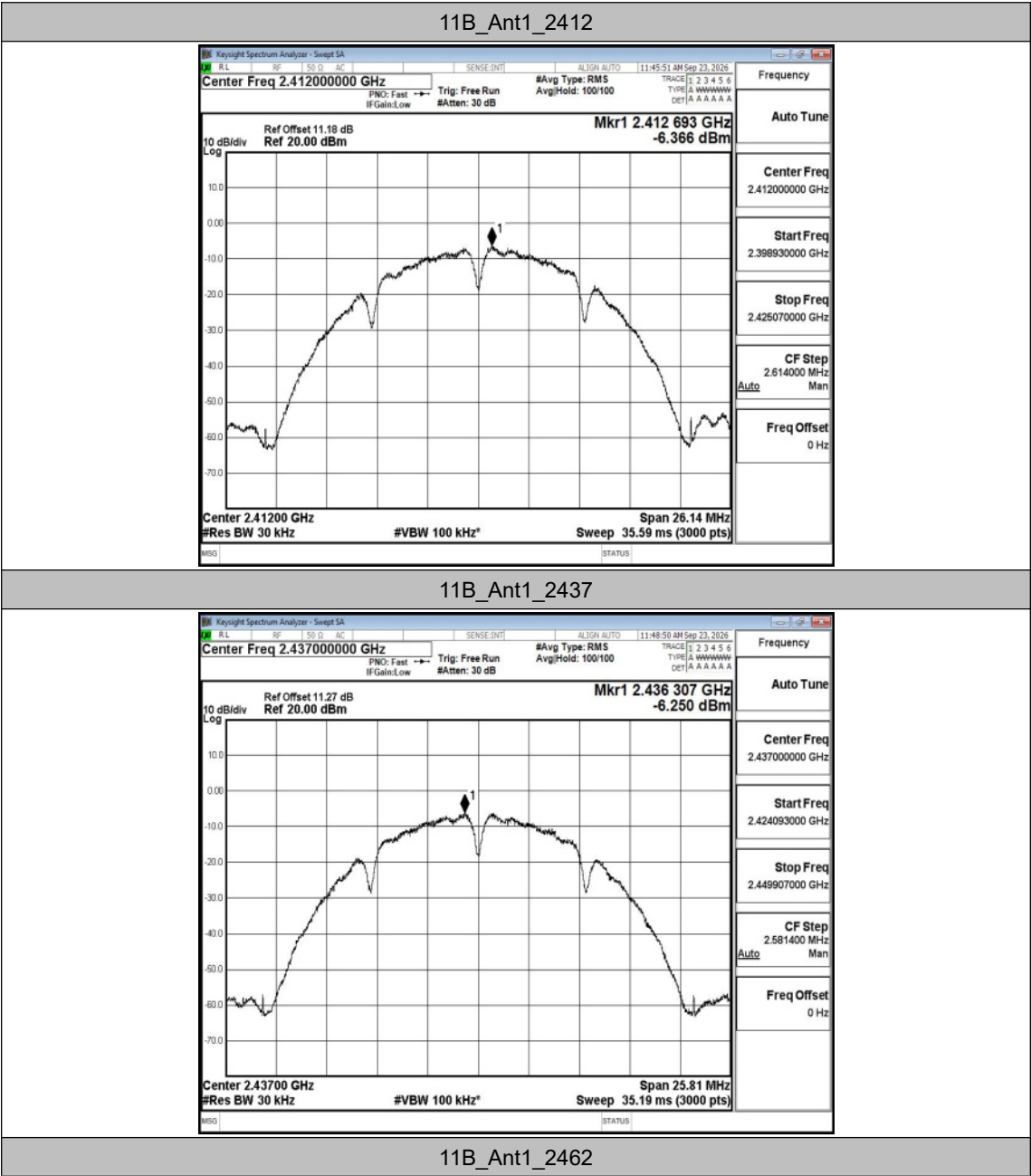
TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.50	0.02	14.52	≤30.00	PASS
		2437	14.68	0.02	14.70	≤30.00	PASS
		2462	14.41	0.02	14.43	≤30.00	PASS
11G	Ant1	2412	14.26	0.15	14.41	≤30.00	PASS
		2437	14.32	0.15	14.47	≤30.00	PASS
		2462	14.39	0.12	14.51	≤30.00	PASS
11N20SISO	Ant1	2412	14.41	0.13	14.54	≤30.00	PASS
		2437	14.67	0.13	14.80	≤30.00	PASS
		2462	14.49	0.16	14.65	≤30.00	PASS

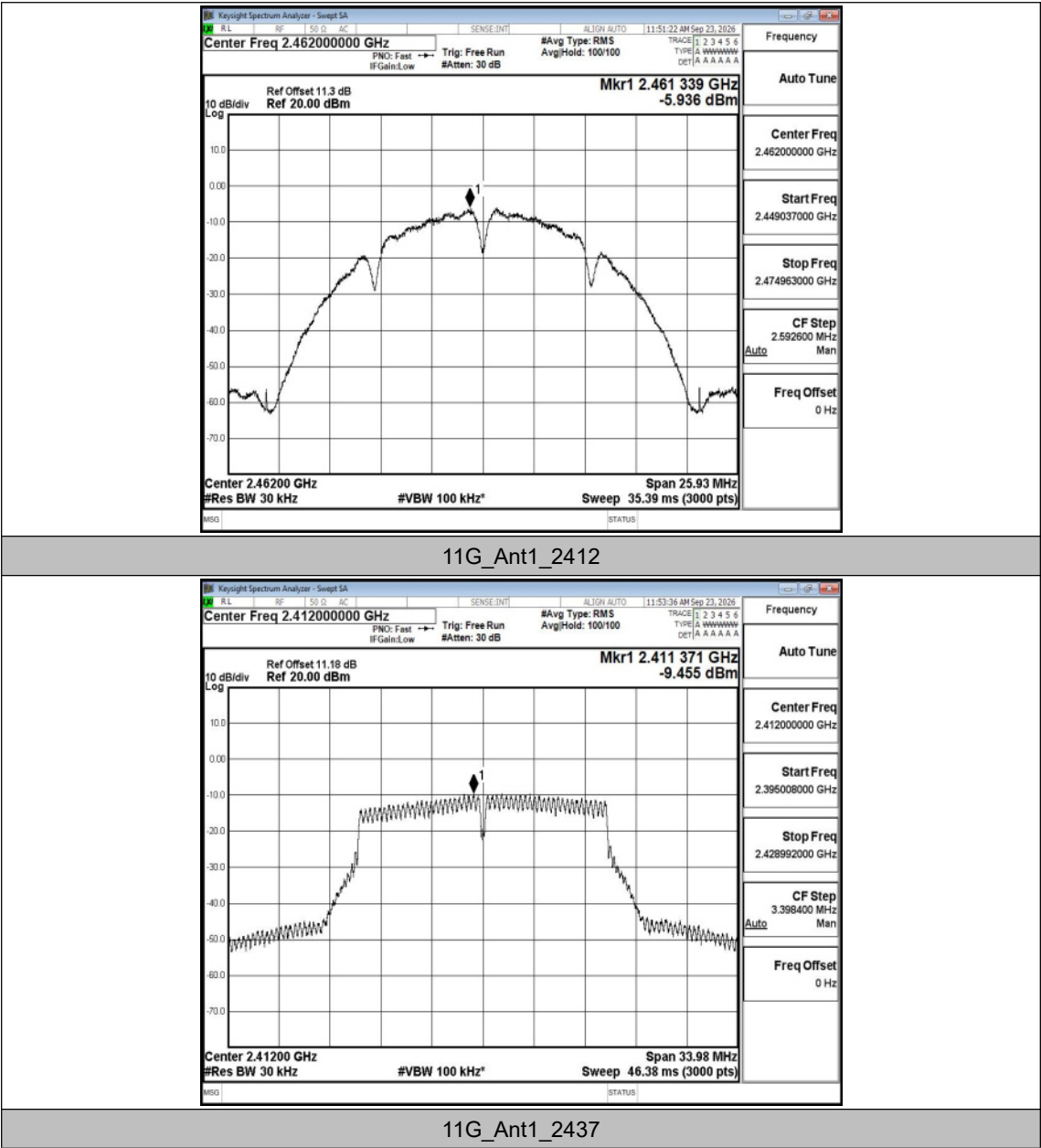
B.3 Maximum power spectral density

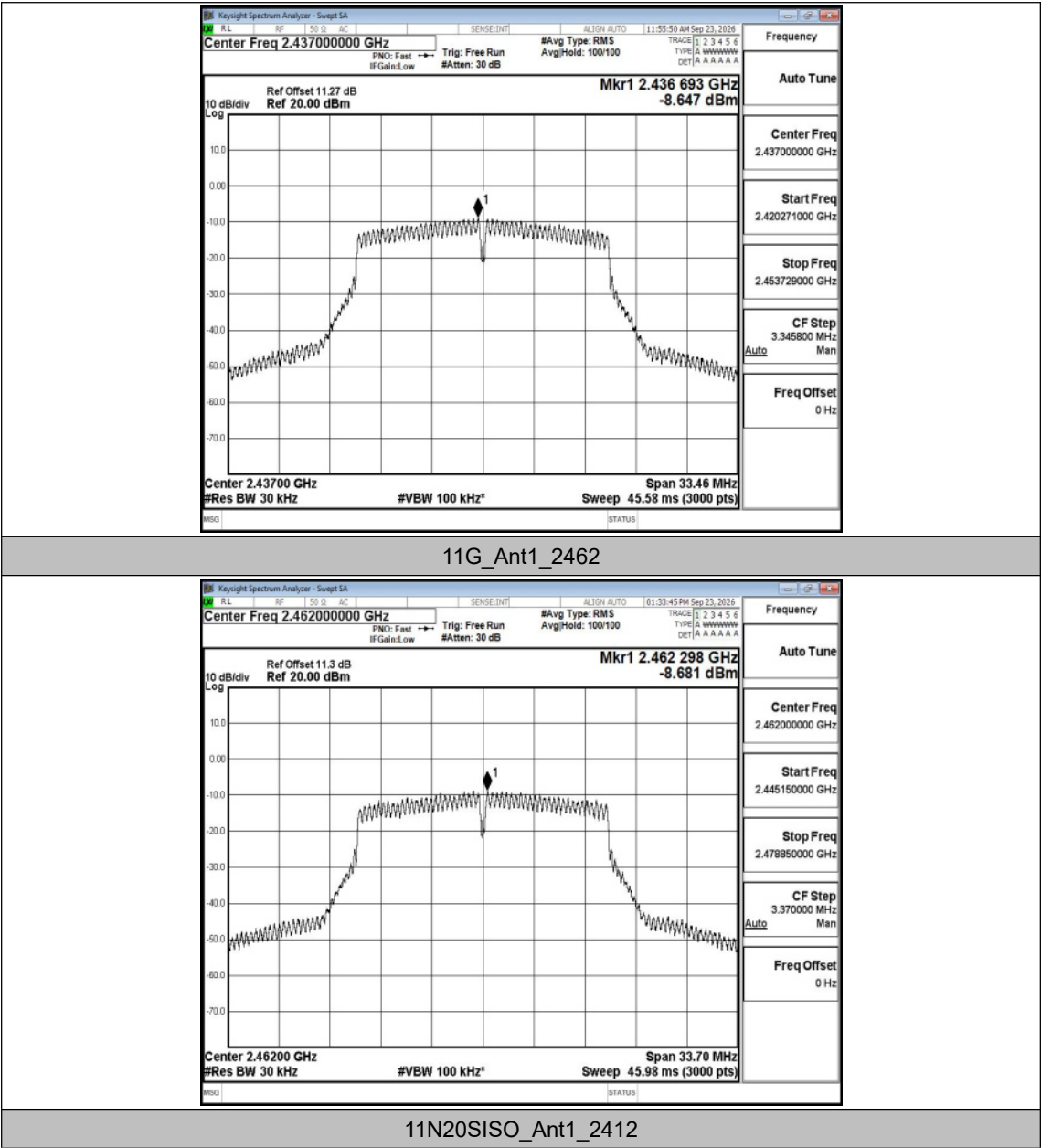
Test Result

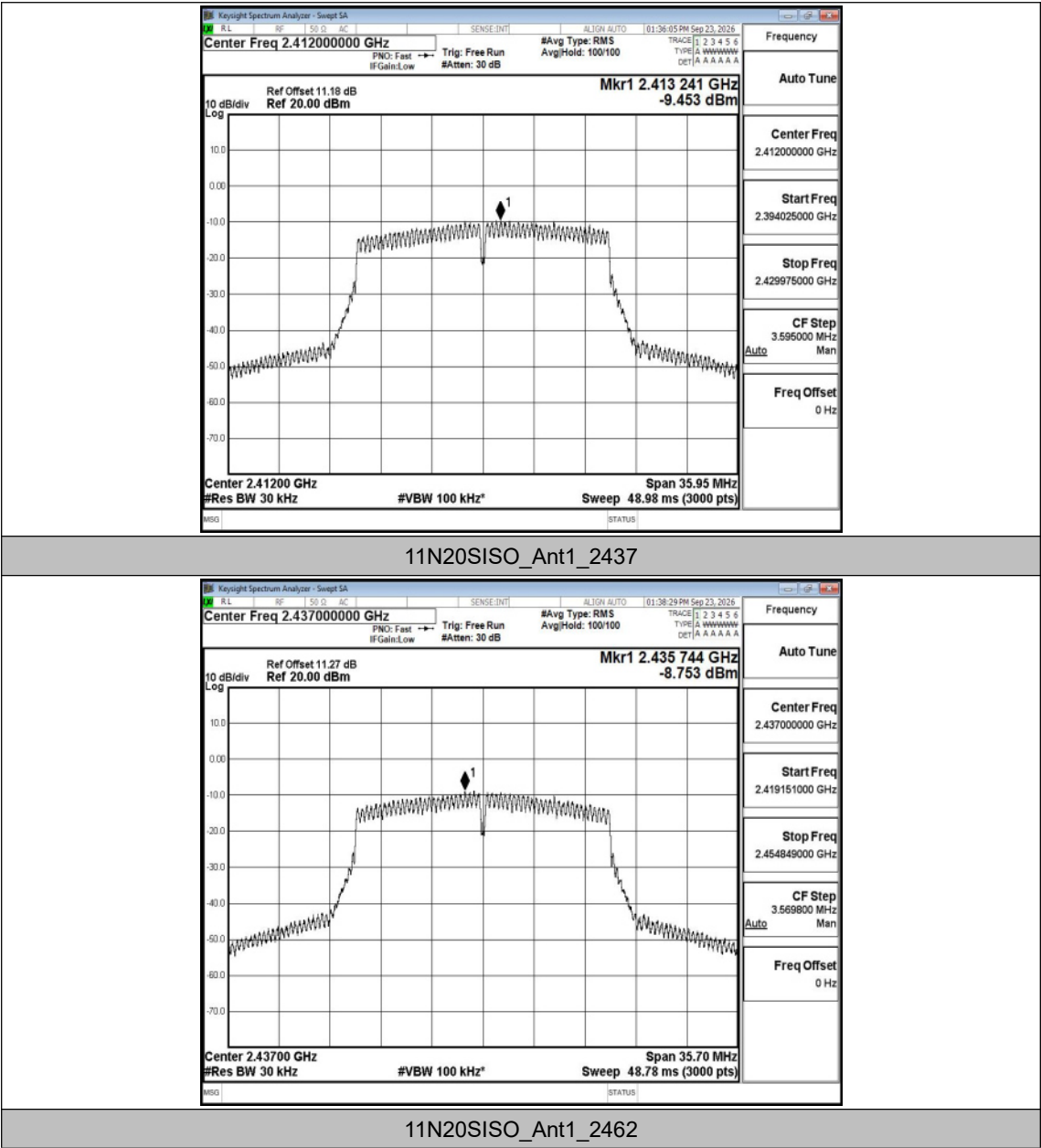
TestMode	Antenna	Frequency[MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-6.37	0.02	-6.35	-16.35	≤8.00	PASS
		2437	-6.25	0.02	-6.23	-16.23	≤8.00	PASS
		2462	-5.94	0.02	-5.92	-15.92	≤8.00	PASS
11G	Ant1	2412	-9.46	0.15	-9.31	-19.31	≤8.00	PASS
		2437	-8.65	0.15	-8.50	-18.50	≤8.00	PASS
		2462	-8.68	0.12	-8.56	-18.56	≤8.00	PASS
11N20SISO	Ant1	2412	-9.45	0.13	-9.32	-19.32	≤8.00	PASS
		2437	-8.75	0.13	-8.62	-18.62	≤8.00	PASS
		2462	-8.79	0.16	-8.63	-18.63	≤8.00	PASS

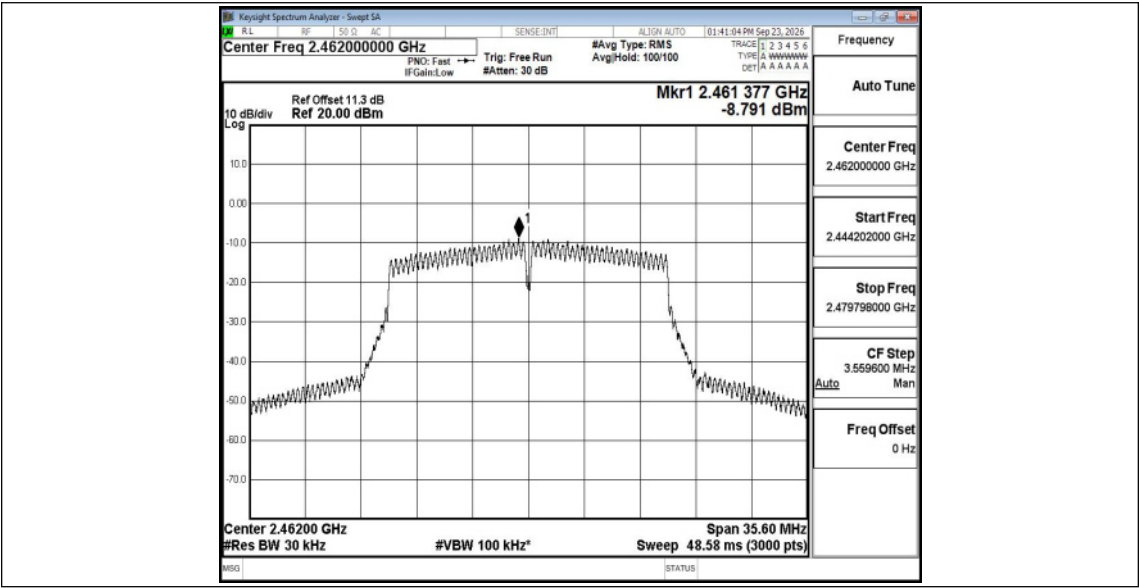
Test Graphs









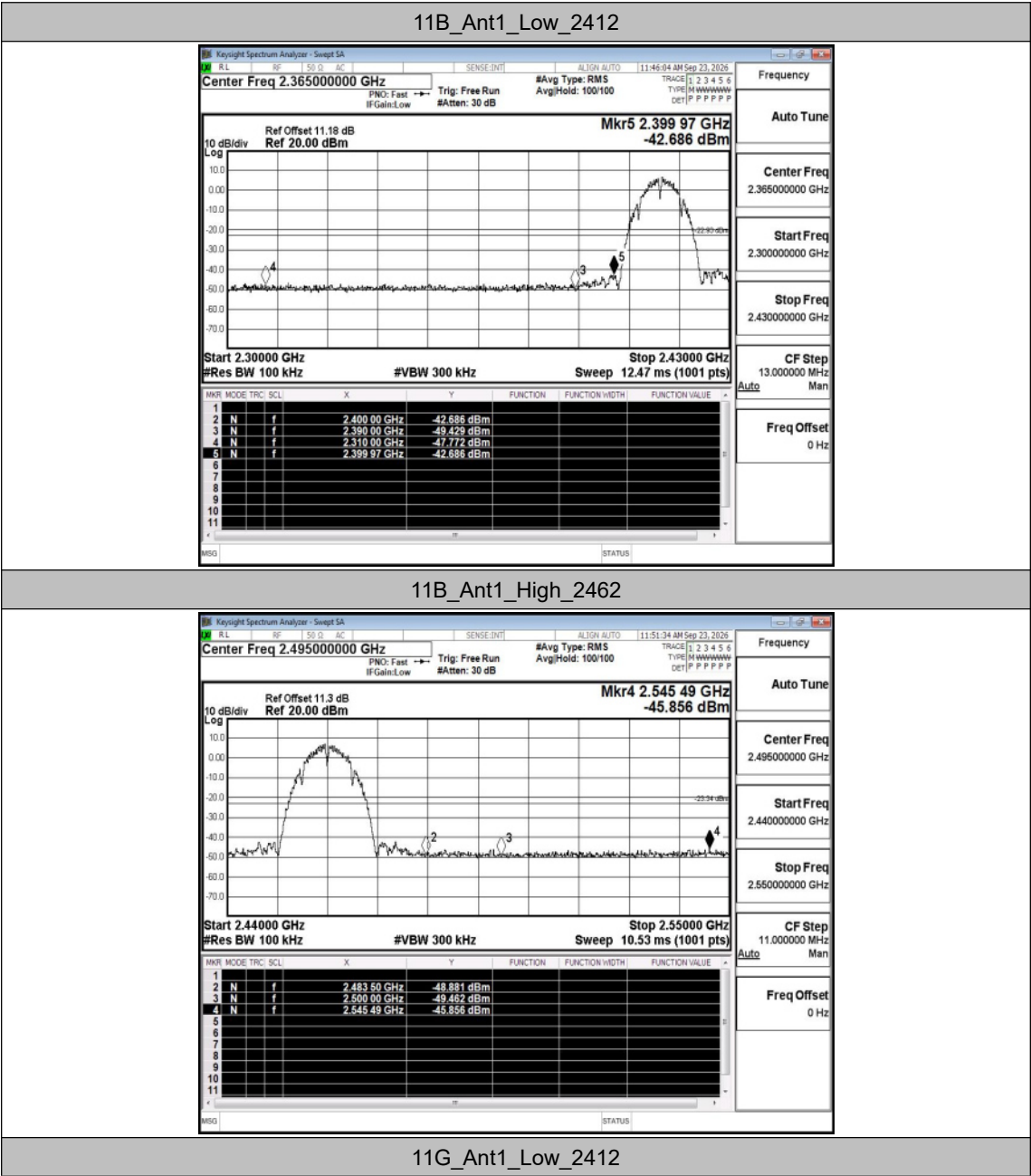


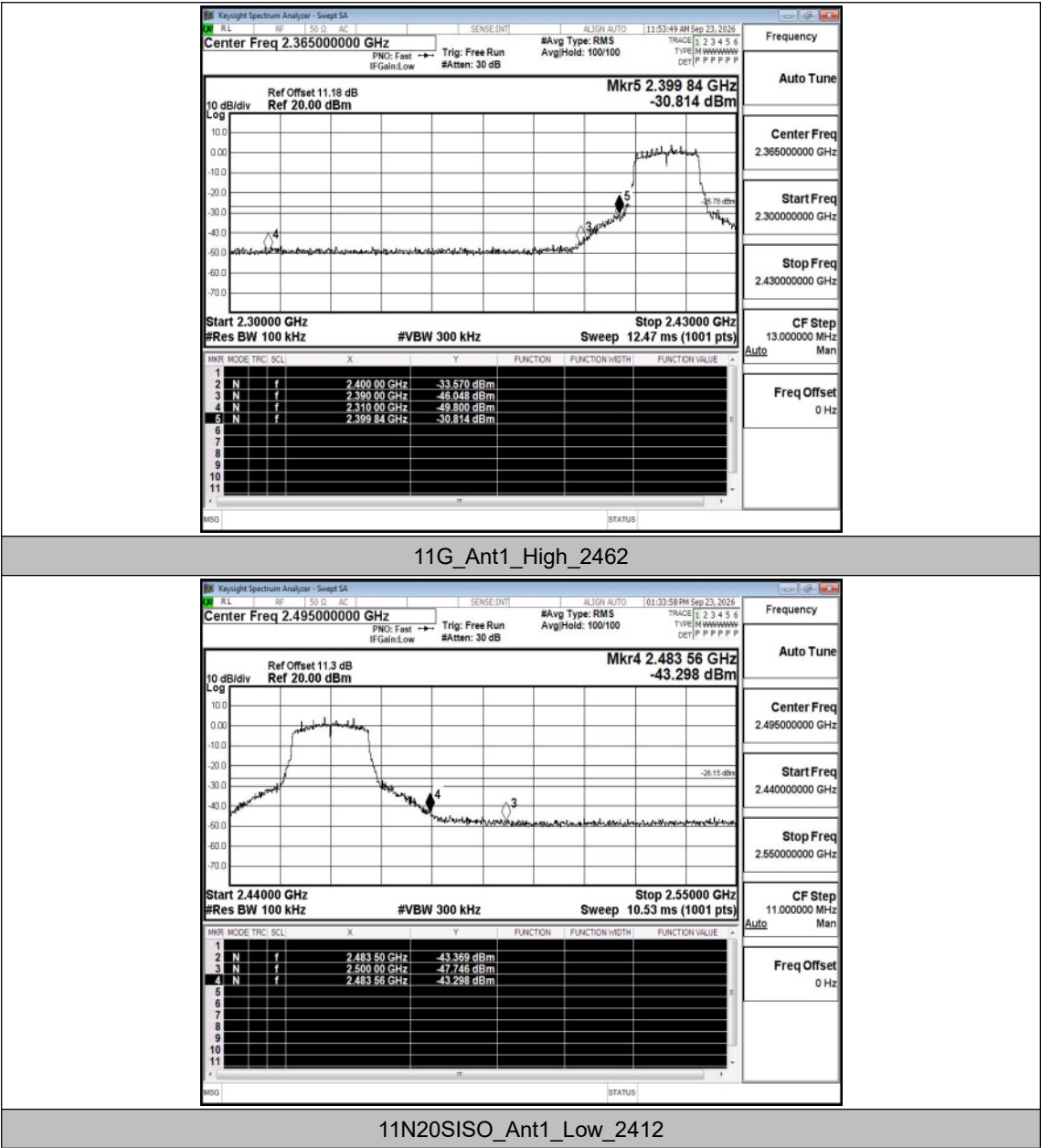
B.4 Band edge measurements

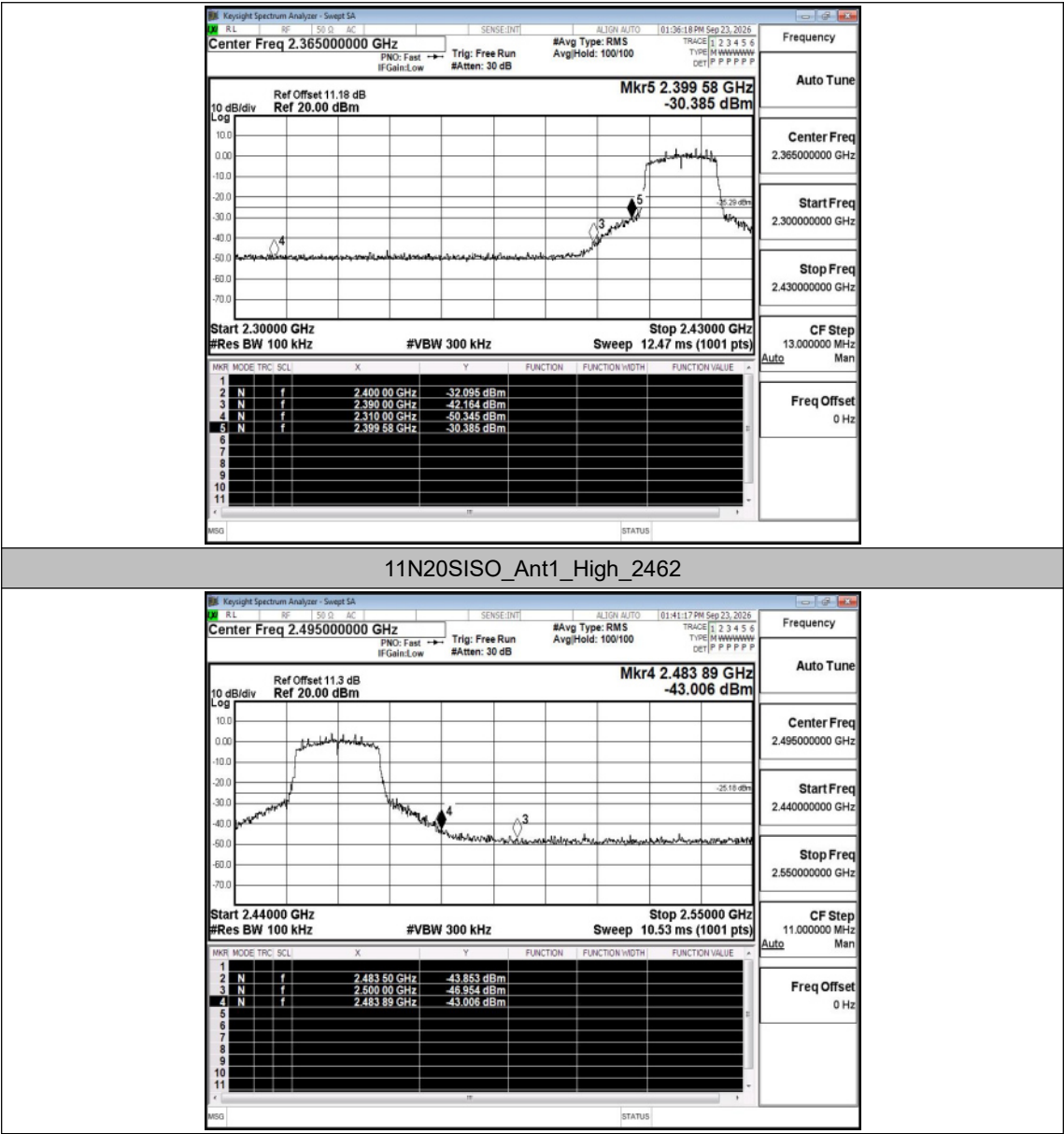
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.07	-42.69	≤-22.93	PASS
		High	2462	6.66	-45.86	≤-23.34	PASS
11G	Ant1	Low	2412	3.22	-30.81	≤-26.78	PASS
		High	2462	3.85	-43.3	≤-26.15	PASS
11N20SISO	Ant1	Low	2412	4.71	-30.39	≤-25.29	PASS
		High	2462	4.82	-43.01	≤-25.18	PASS

Test Graphs







B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.15	6.15	---	PASS
			30~1000	6.15	-69.65	≤-23.85	PASS
			1000~26500	6.15	-36.86	≤-23.85	PASS
		2437	Reference	5.80	5.80	---	PASS
			30~1000	5.80	-69.34	≤-24.2	PASS
			1000~26500	5.80	-40.63	≤-24.2	PASS
		2462	Reference	5.52	5.52	---	PASS
			30~1000	5.52	-68.74	≤-24.48	PASS
			1000~26500	5.52	-41.58	≤-24.48	PASS
11G	Ant1	2412	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-69.19	≤-26.45	PASS
			1000~26500	3.55	-44.51	≤-26.45	PASS
		2437	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-68.6	≤-29.02	PASS
			1000~26500	0.98	-44.39	≤-29.02	PASS
		2462	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-69.98	≤-28.71	PASS
			1000~26500	1.29	-44.12	≤-28.71	PASS
11N20SISO	Ant1	2412	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-69.68	≤-28.11	PASS
			1000~26500	1.89	-44.2	≤-28.11	PASS
		2437	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-70.22	≤-28.04	PASS
			1000~26500	1.96	-43.54	≤-28.04	PASS
		2462	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-69.89	≤-27.71	PASS
			1000~26500	2.29	-44.62	≤-27.71	PASS

Test Graphs

