

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: NOTE 18

Environmental Conditions

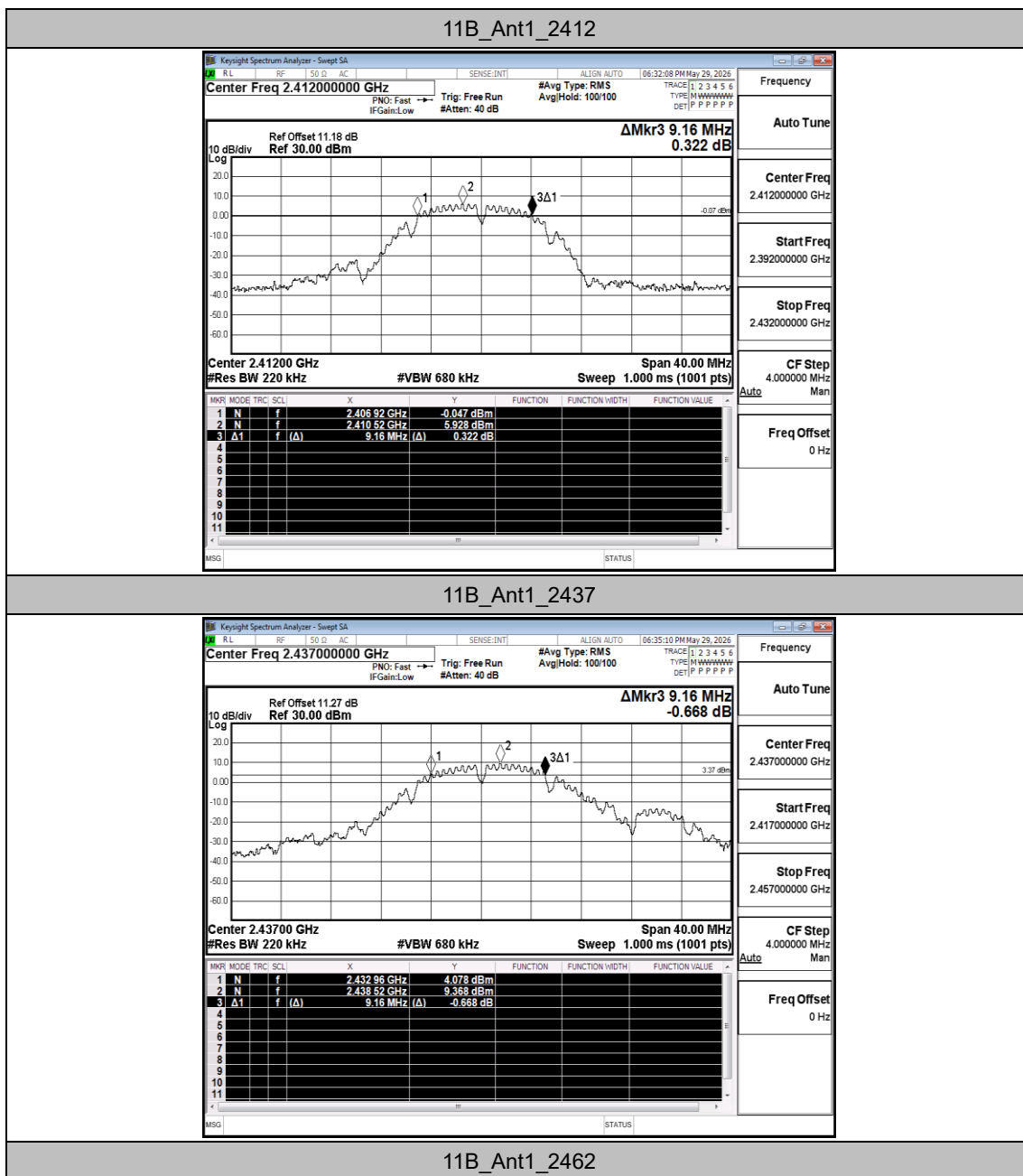
Temperature:	24.6°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

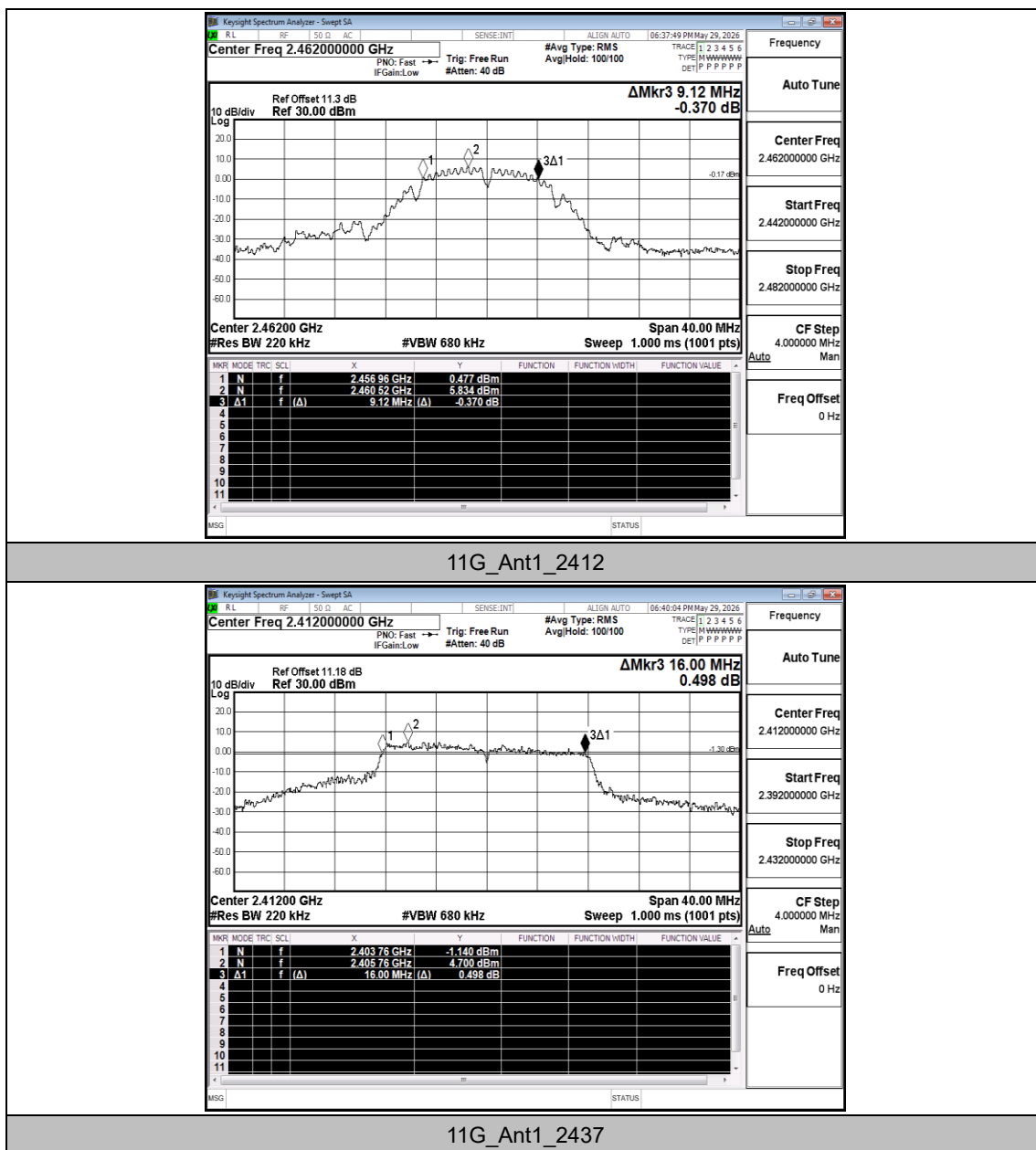
C.1 6dB Bandwidth

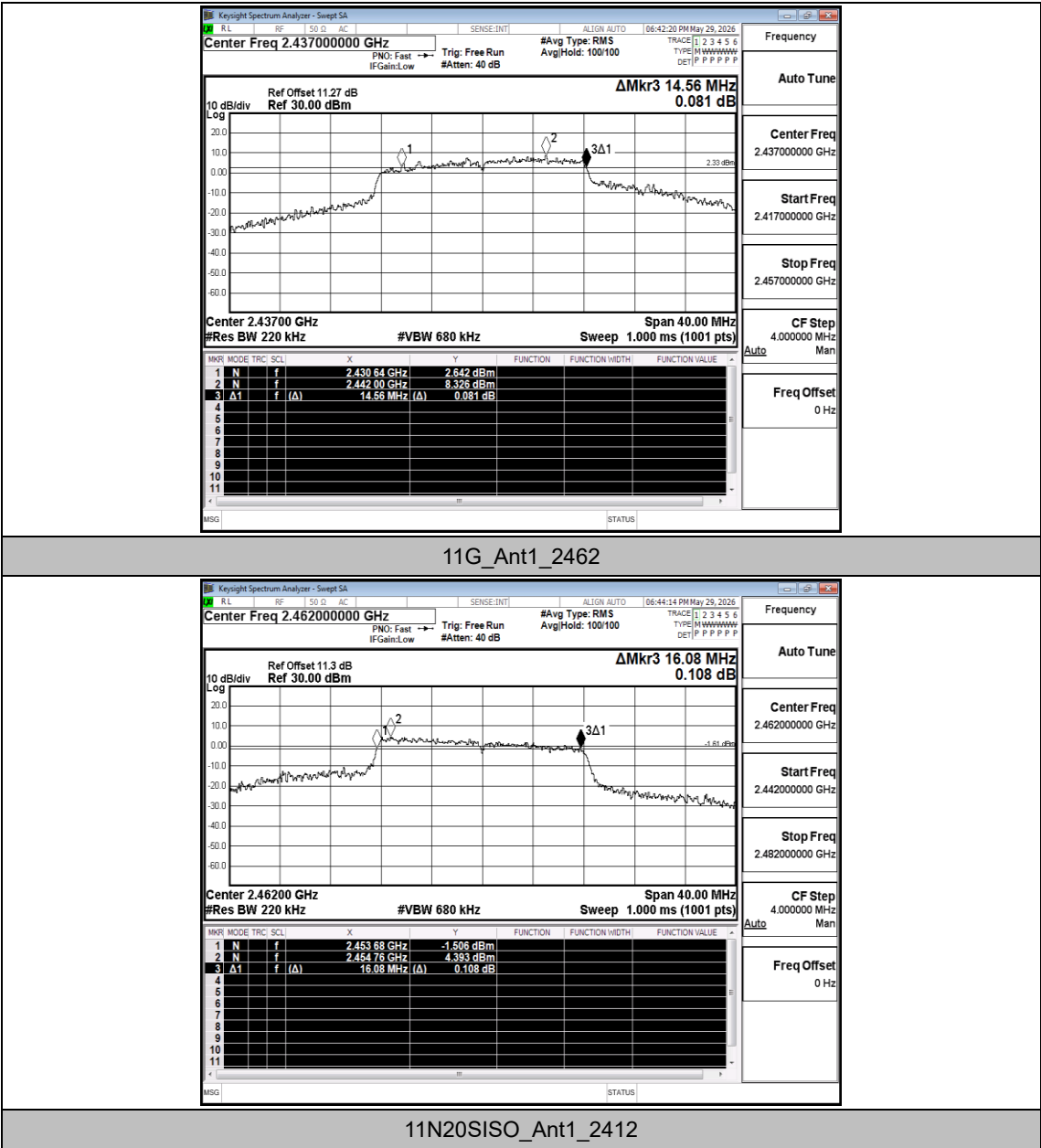
Test Result

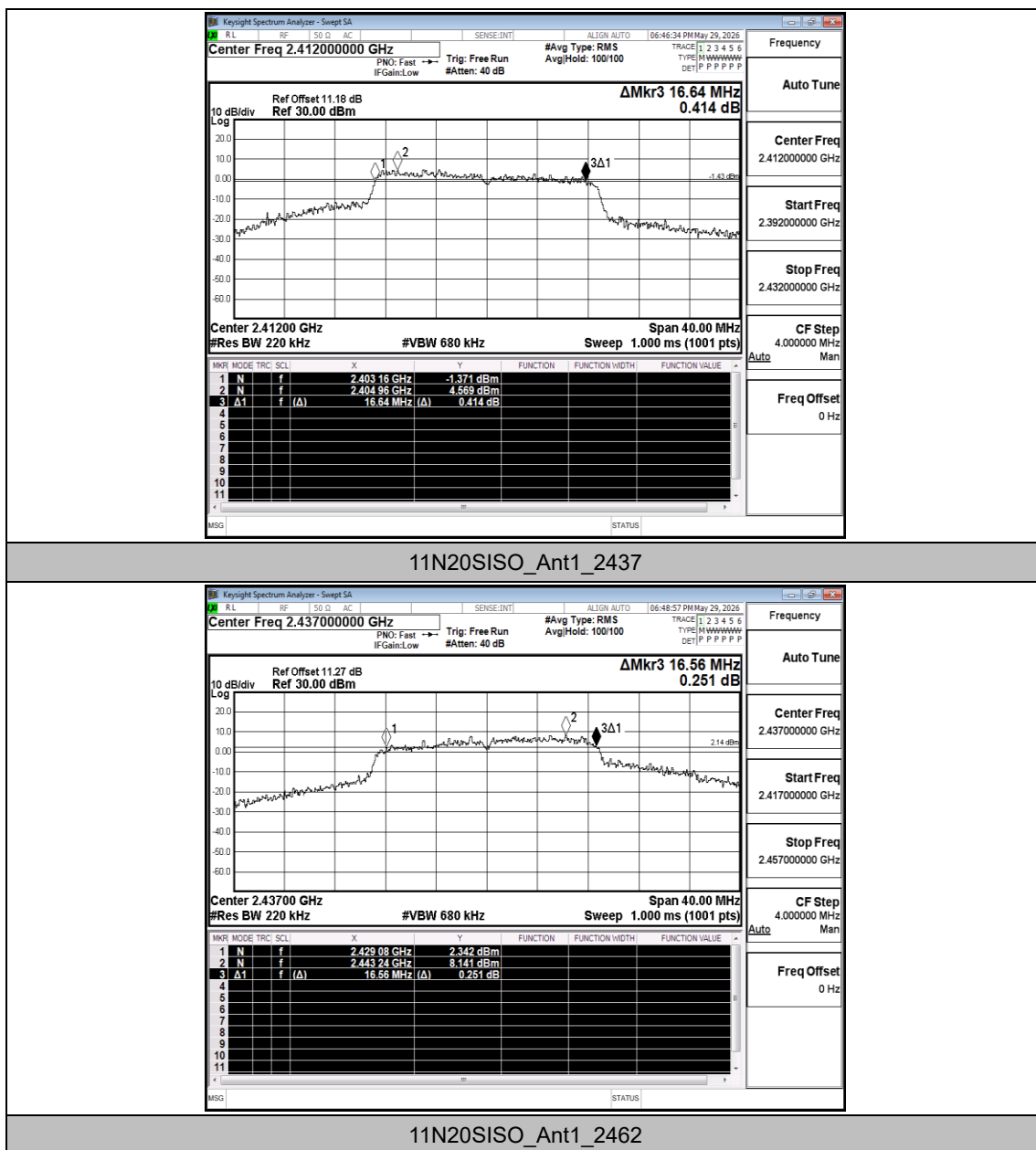
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	9.160	2406.920	2416.080	0.5	PASS
		2437	9.160	2432.960	2442.120	0.5	PASS
		2462	9.120	2456.960	2466.080	0.5	PASS
11G	Ant1	2412	16.000	2403.760	2419.760	0.5	PASS
		2437	14.560	2430.640	2445.200	0.5	PASS
		2462	16.080	2453.680	2469.760	0.5	PASS
11N20SISO	Ant1	2412	16.640	2403.160	2419.800	0.5	PASS
		2437	16.560	2429.080	2445.640	0.5	PASS
		2462	16.840	2453.200	2470.040	0.5	PASS
11N40SISO	Ant1	2422	36.480	2403.840	2440.320	0.5	PASS
		2437	29.600	2424.760	2454.360	0.5	PASS
		2452	20.400	2436.400	2456.800	0.5	PASS

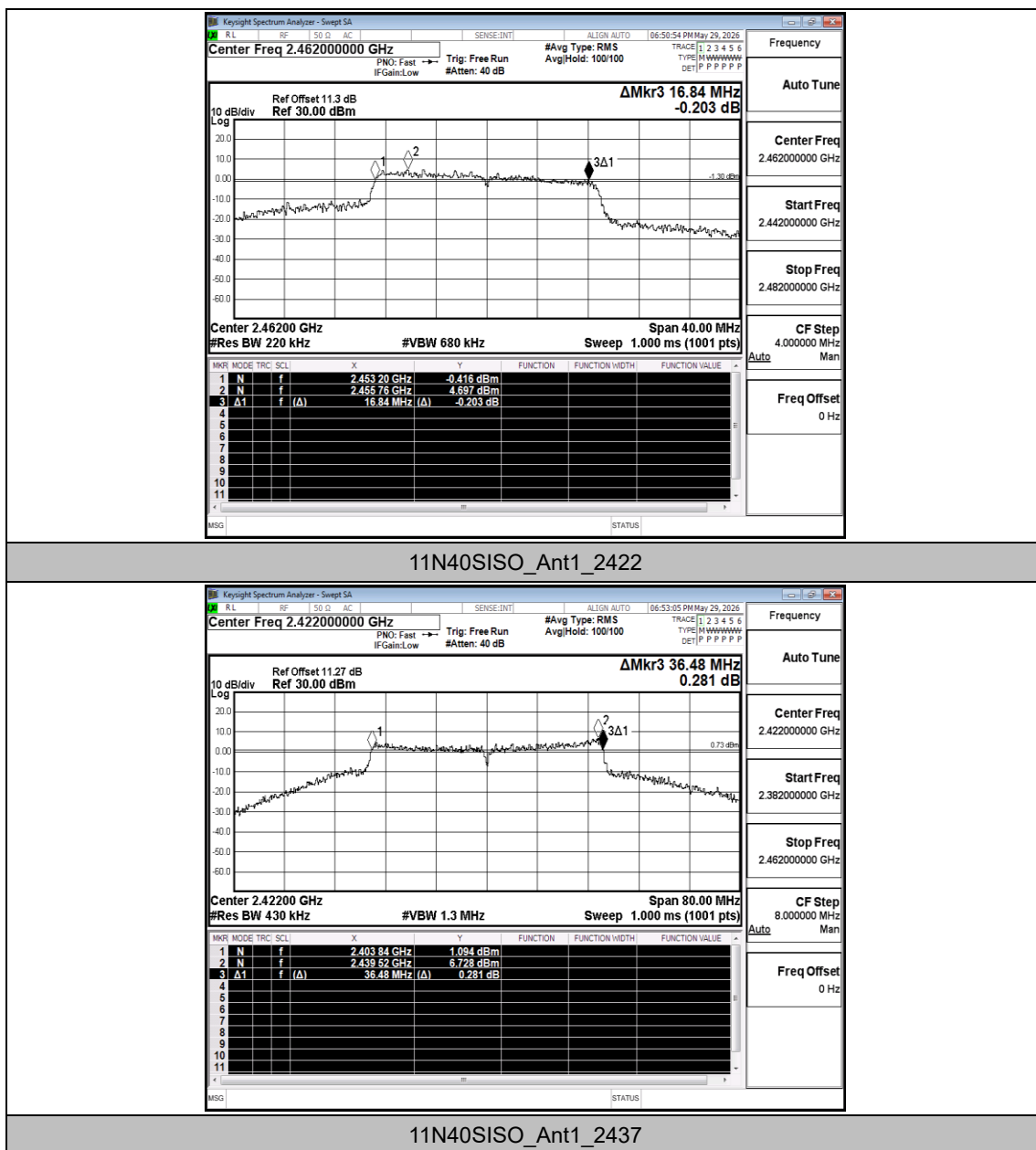
Test Graphs

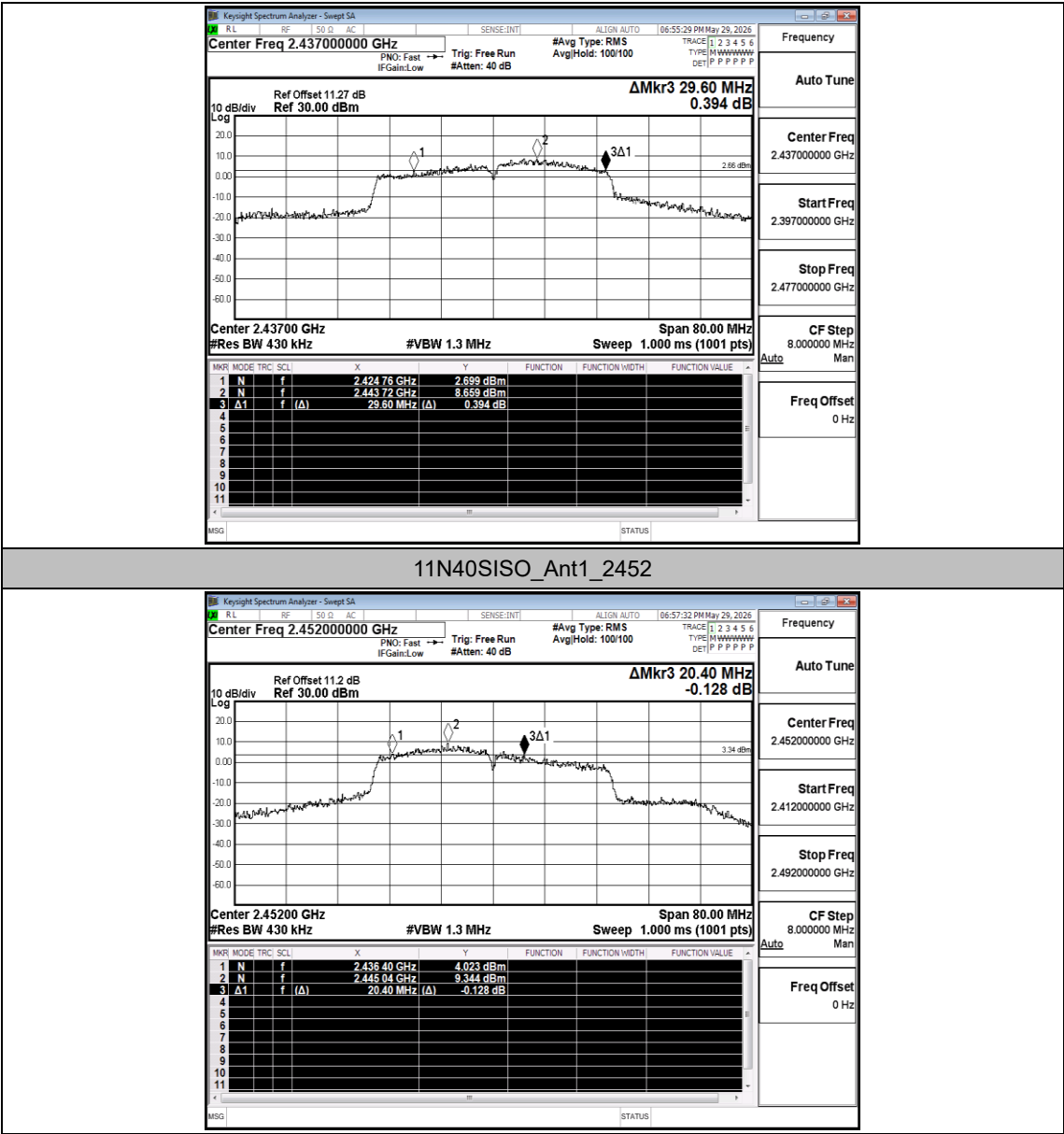












C.2 Maximum Average conducted output power

Test Result

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	13.36	0.03	13.39	≤30.00	PASS
		2437	16.88	0.04	16.92	≤30.00	PASS
		2462	13.05	0.03	13.08	≤30.00	PASS
11G	Ant1	2412	13.33	0.21	13.54	≤30.00	PASS
		2437	16.69	0.21	16.90	≤30.00	PASS
		2462	13.10	0.18	13.28	≤30.00	PASS
11N20SISO	Ant1	2412	13.47	0.22	13.69	≤30.00	PASS
		2437	16.78	0.22	17.00	≤30.00	PASS
		2462	13.26	0.22	13.48	≤30.00	PASS
11N40SISO	Ant1	2422	14.37	0.49	14.86	≤30.00	PASS
		2437	16.35	0.49	16.84	≤30.00	PASS
		2452	15.31	0.42	15.73	≤30.00	PASS

C.3 Maximum power spectral density

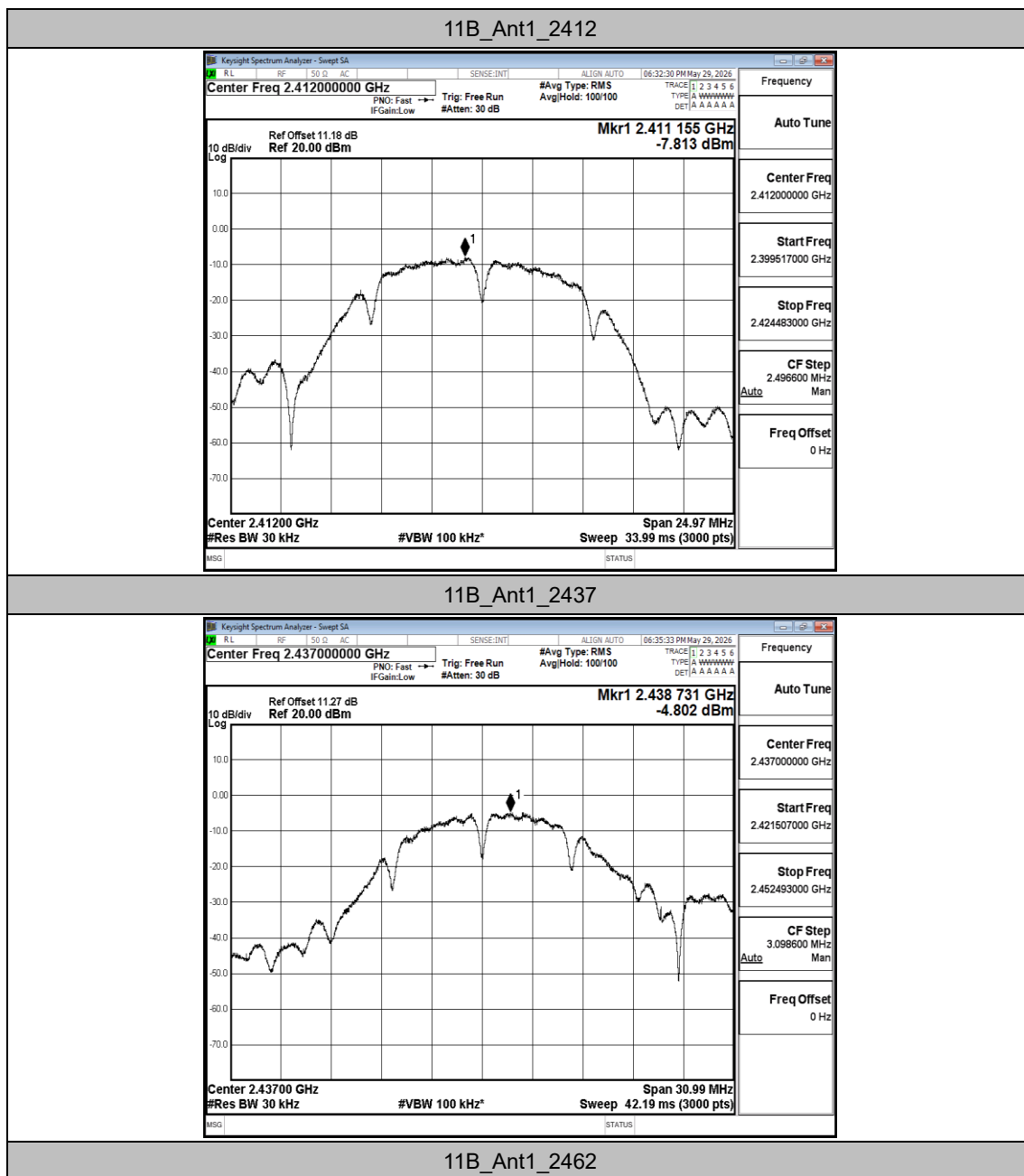
Test Result

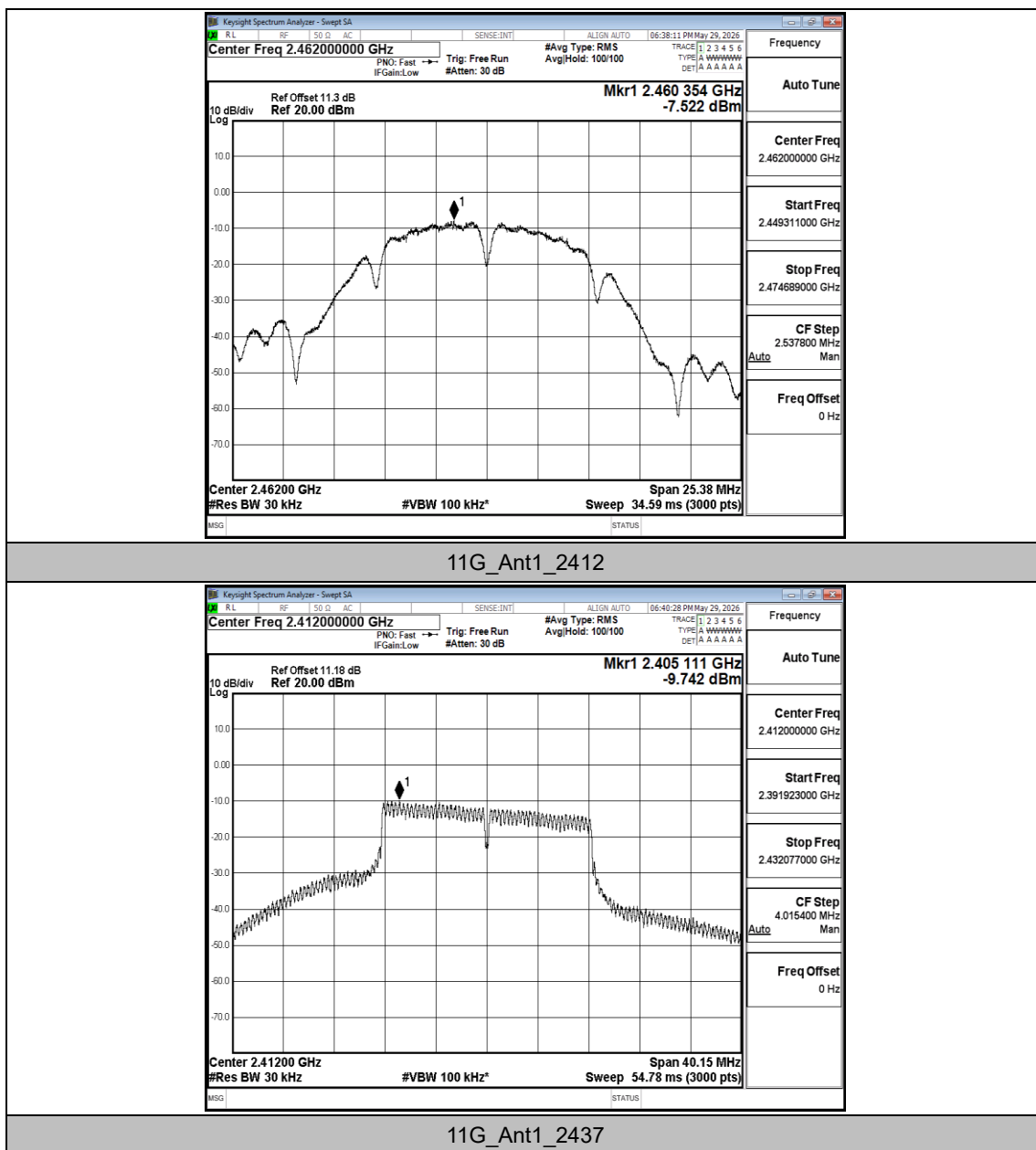
TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.81	0.03	-7.78	-17.78	≤8.00	PASS
		2437	-4.8	0.04	-4.76	-14.76	≤8.00	PASS
		2462	-7.52	0.03	-7.49	-17.49	≤8.00	PASS
11G	Ant1	2412	-9.74	0.21	-9.53	-19.53	≤8.00	PASS
		2437	-6.73	0.21	-6.52	-16.52	≤8.00	PASS
		2462	-9.51	0.18	-9.33	-19.33	≤8.00	PASS
11N20SISO	Ant1	2412	-10.59	0.22	-10.37	-20.37	≤8.00	PASS
		2437	-7.5	0.22	-7.28	-17.28	≤8.00	PASS
		2462	-10.36	0.22	-10.14	-20.14	≤8.00	PASS
11N40SISO	Ant1	2422	-11.76	0.49	-11.27	-21.27	≤8.00	PASS
		2437	-8.93	0.49	-8.44	-18.44	≤8.00	PASS
		2452	-10.03	0.42	-9.61	-19.61	≤8.00	PASS

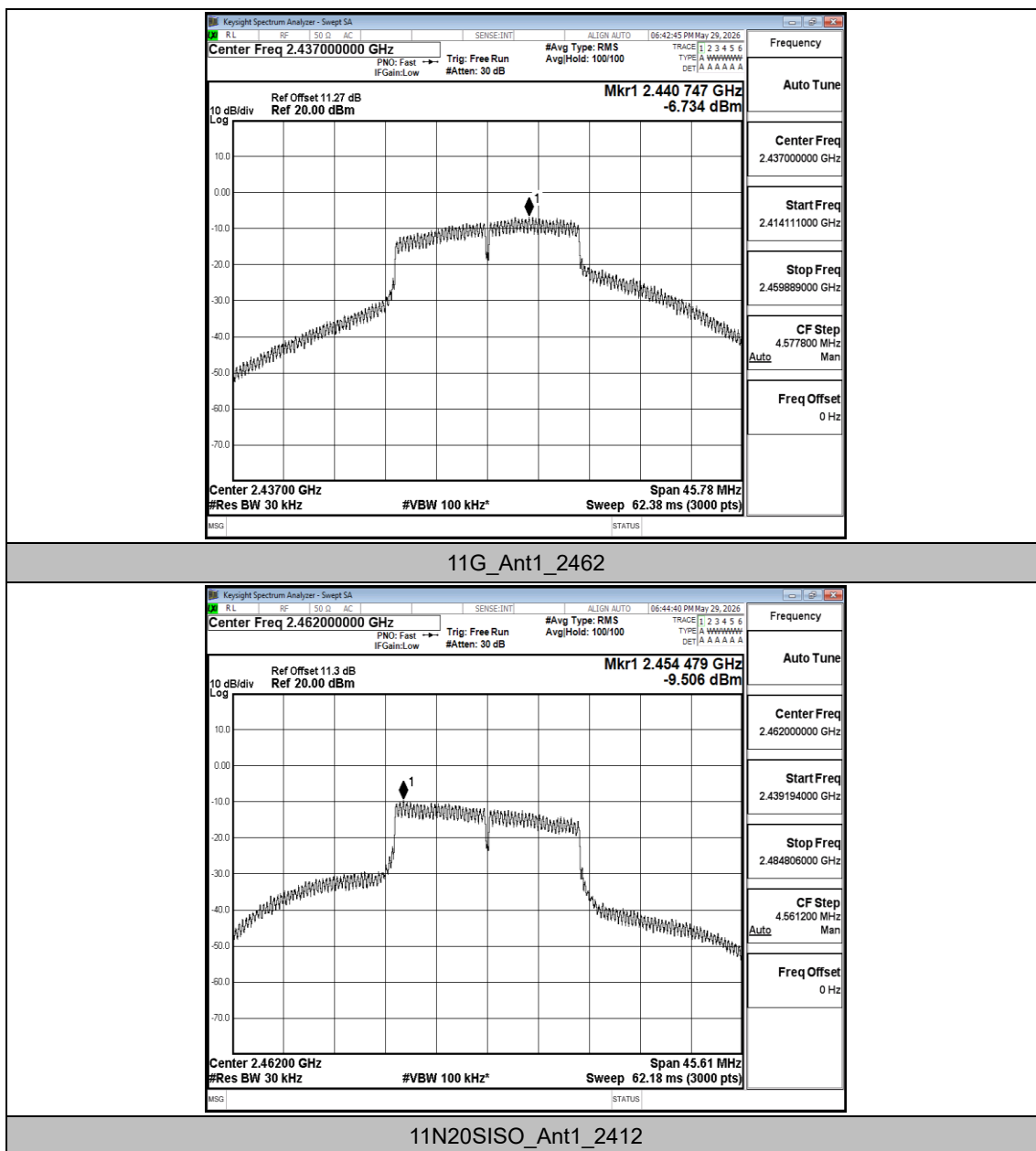
Note: offset=System attenuation +cable loss

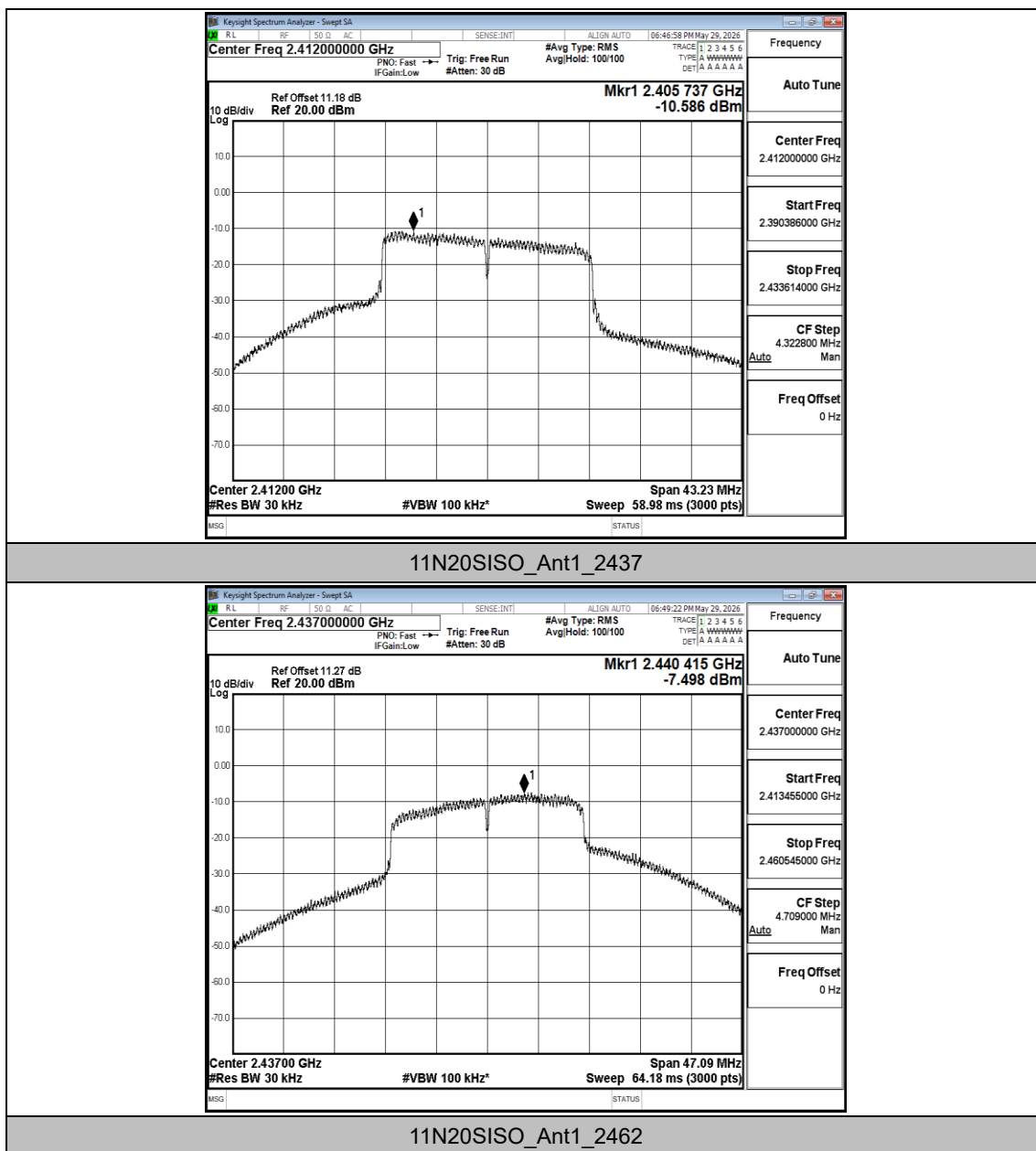
Result[dBm/3kHz] =Result[dBm/30kHz]+10*Log(3/30)

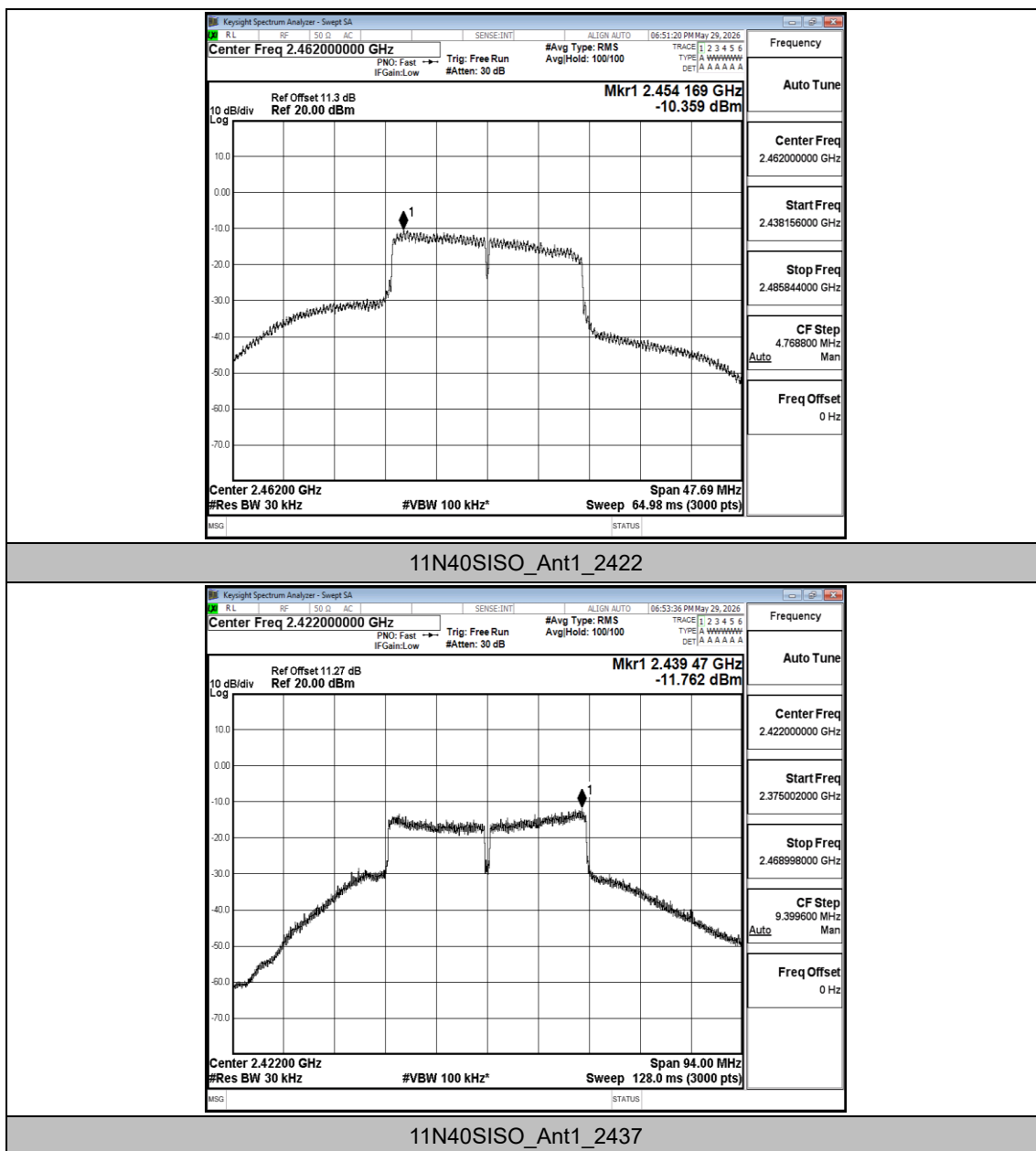
Test Graphs

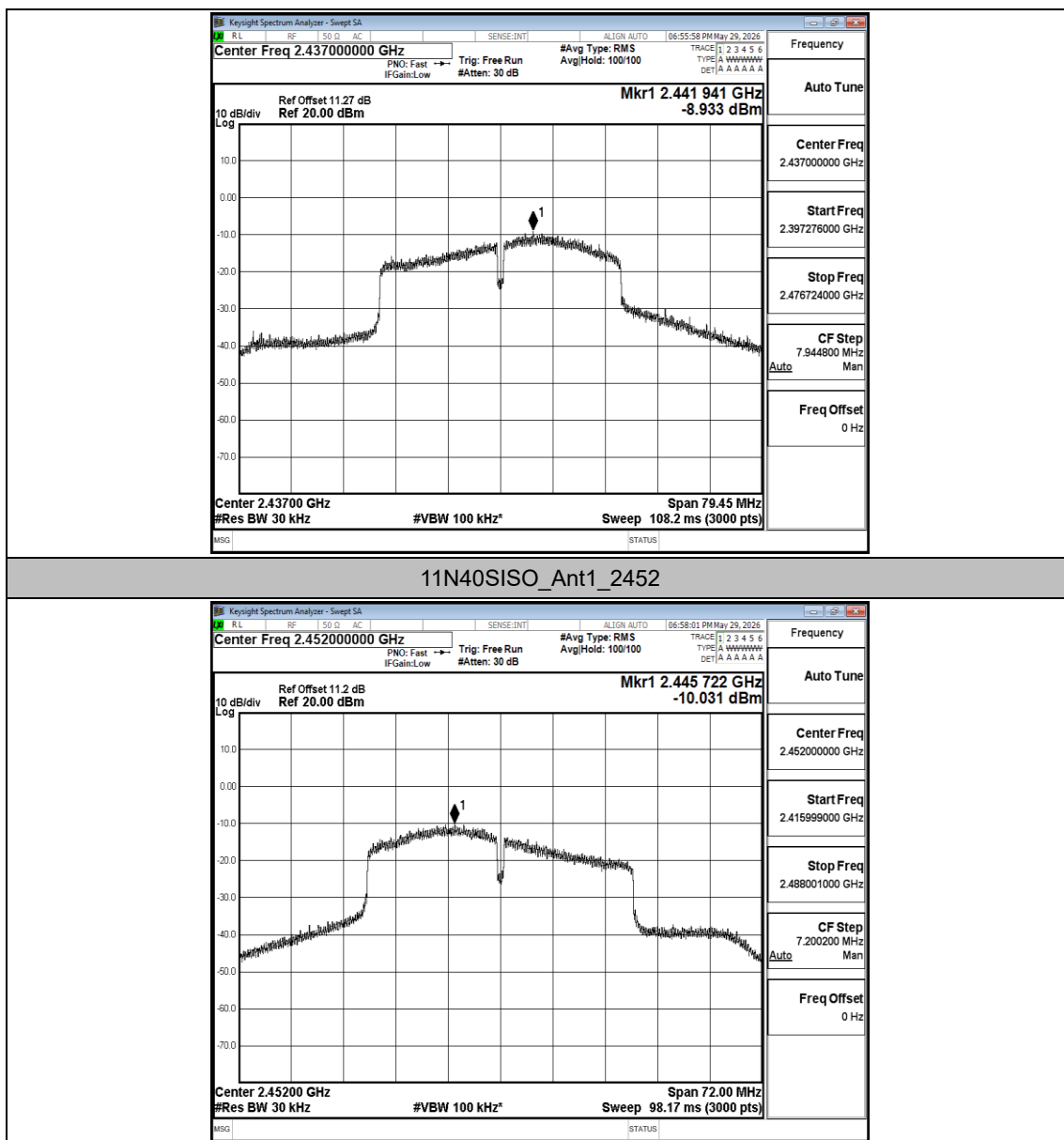










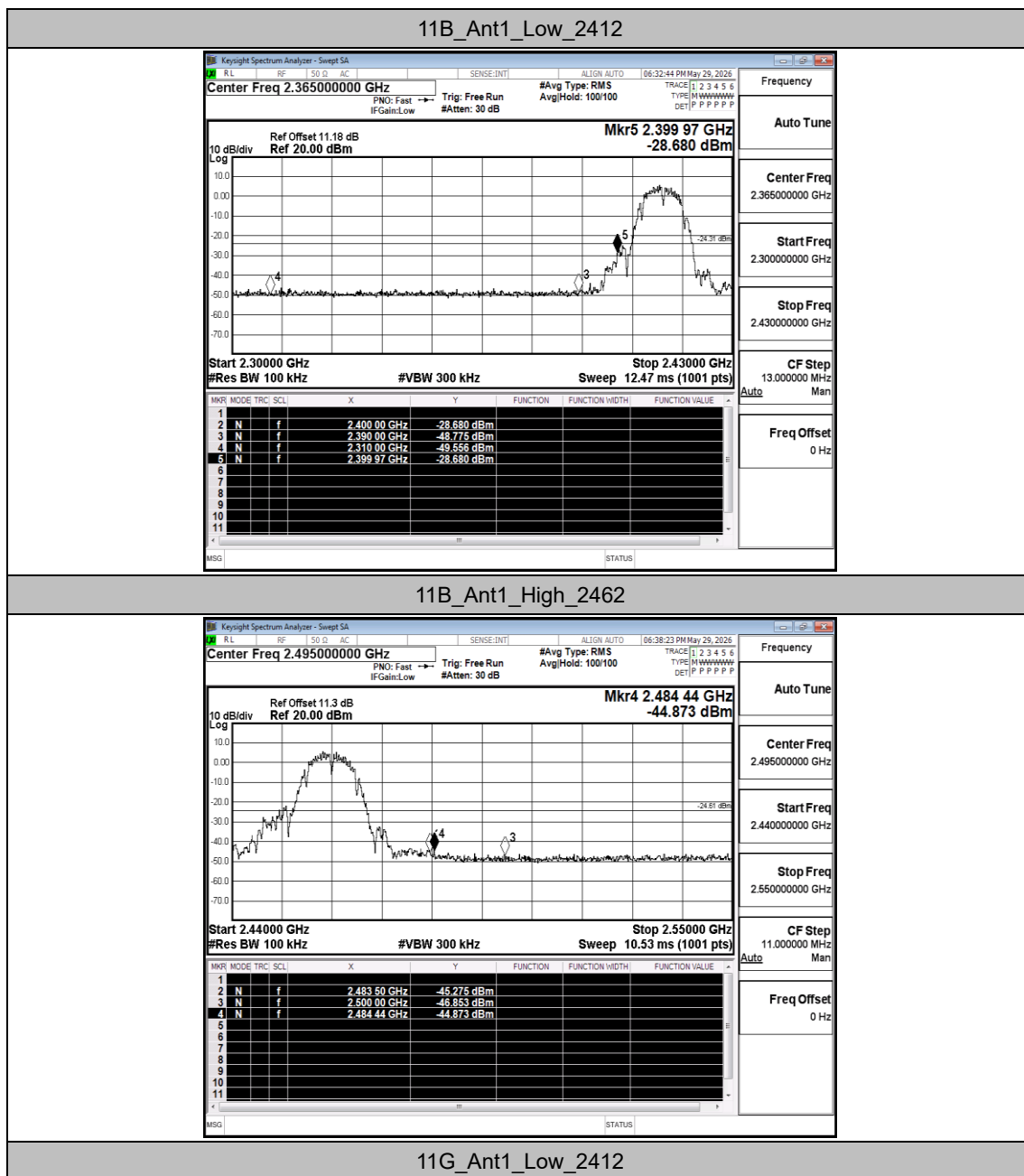


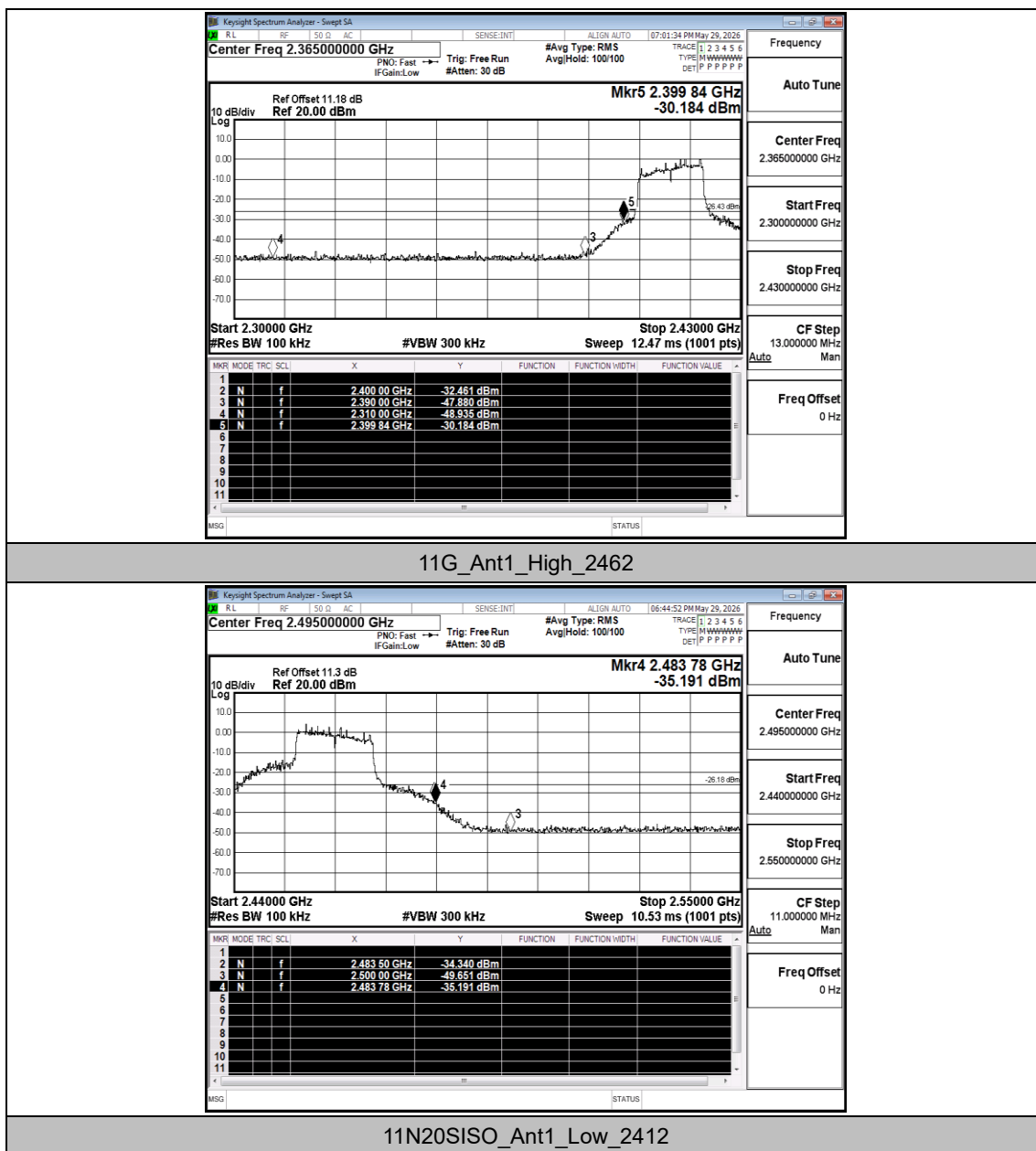
C.4 Band edge measurements

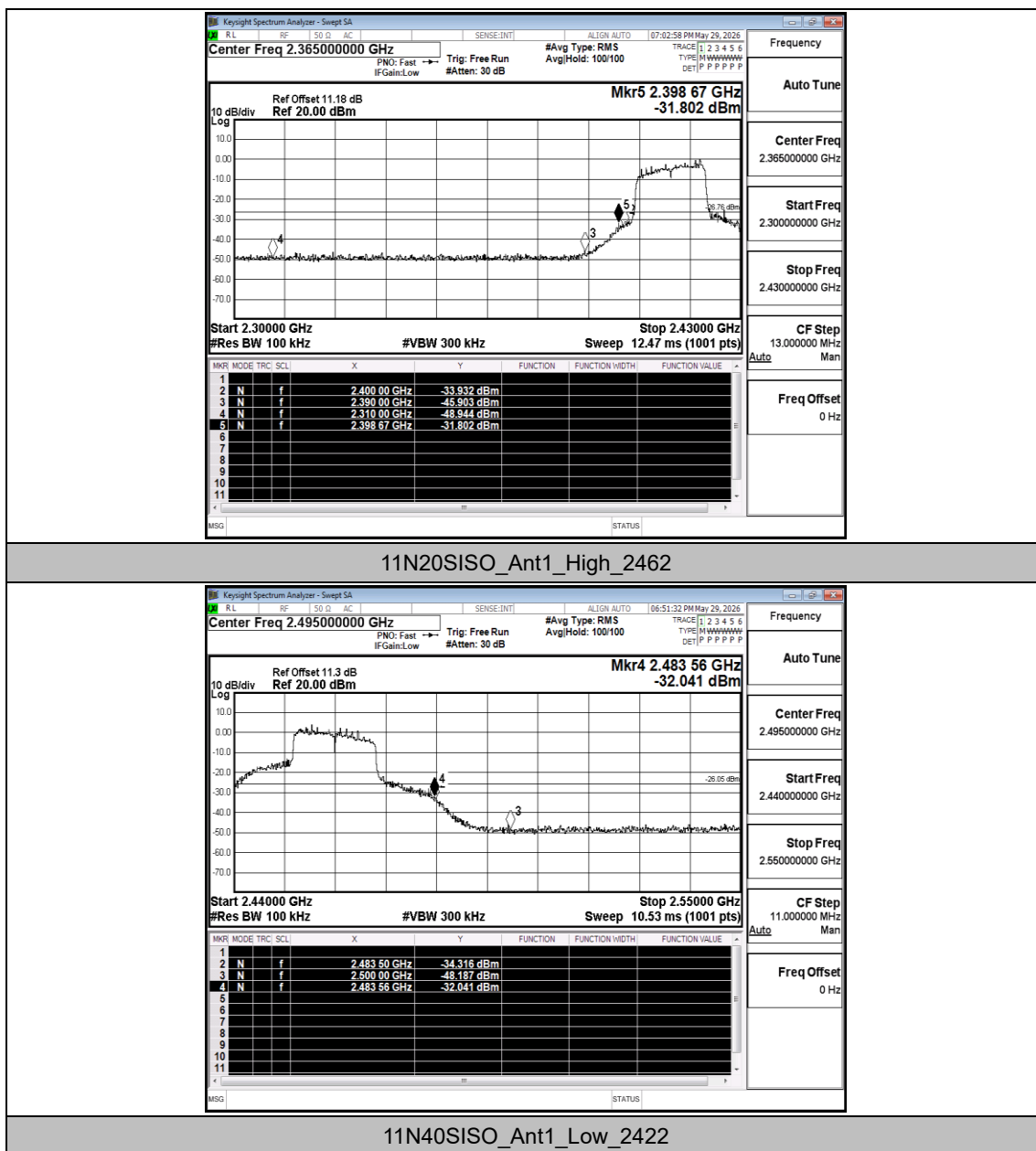
Test Result

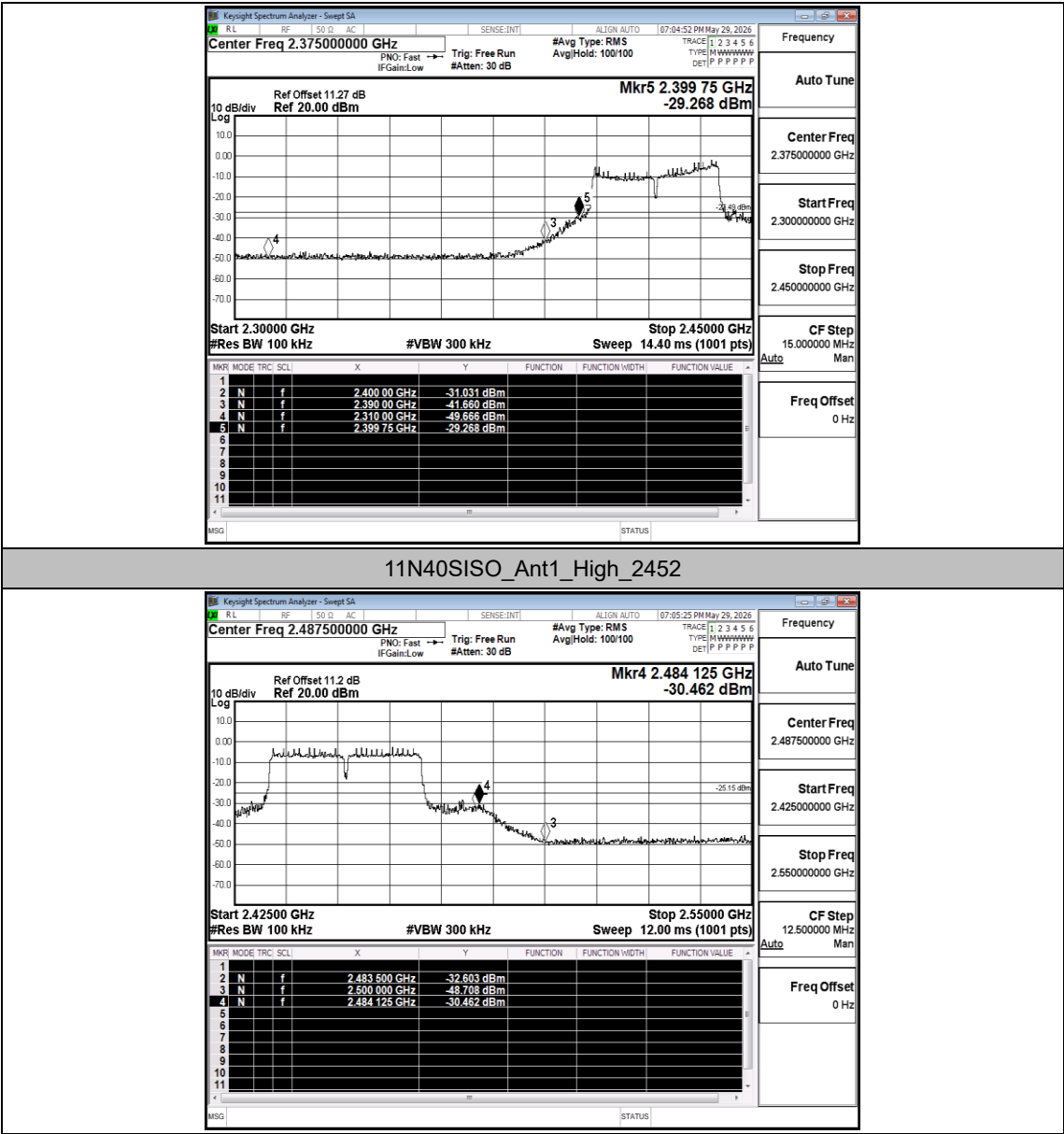
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.69	-28.68	≤-24.31	PASS
		High	2462	5.39	-44.87	≤-24.61	PASS
11G	Ant1	Low	2412	3.57	-30.18	≤-26.43	PASS
		High	2462	3.82	-35.19	≤-26.18	PASS
11N20SISO	Ant1	Low	2412	3.24	-31.8	≤-26.76	PASS
		High	2462	3.95	-32.04	≤-26.05	PASS
11N40SISO	Ant1	Low	2422	2.51	-29.27	≤-27.49	PASS
		High	2452	4.85	-30.46	≤-25.15	PASS

Test Graphs









C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-64.69	≤-26.75	PASS
			1000~26500	3.25	-43.25	≤-26.75	PASS
		2437	Reference	7.61	7.61	---	PASS
			30~1000	7.61	-68.22	≤-22.39	PASS
			1000~26500	7.61	-35.63	≤-22.39	PASS
		2462	Reference	5.55	5.55	---	PASS
			30~1000	5.55	-68.83	≤-24.45	PASS
			1000~26500	5.55	-41.66	≤-24.45	PASS
11G	Ant1	2412	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-64.96	≤-26.41	PASS
			1000~26500	3.59	-44.04	≤-26.41	PASS
		2437	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-68.19	≤-26.55	PASS
			1000~26500	3.45	-44.22	≤-26.55	PASS
		2462	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-62.58	≤-29.93	PASS
			1000~26500	0.07	-44.46	≤-29.93	PASS
11N20SISO	Ant1	2412	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-68.82	≤-29.53	PASS
			1000~26500	0.47	-44.49	≤-29.53	PASS
		2437	Reference	4.41	4.41	---	PASS
			30~1000	4.41	-67.66	≤-25.59	PASS
			1000~26500	4.41	-44.8	≤-25.59	PASS
		2462	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-68.08	≤-27.66	PASS
			1000~26500	2.34	-44.31	≤-27.66	PASS
11N40SISO	Ant1	2422	Reference	0.64	0.64	---	PASS
			30~1000	0.64	-65.95	≤-29.36	PASS
			1000~26500	0.64	-43.98	≤-29.36	PASS
		2437	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-67.04	≤-26.71	PASS
			1000~26500	3.29	-45.07	≤-26.71	PASS
		2452	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-68.89	≤-27.72	PASS
			1000~26500	2.28	-43.86	≤-27.72	PASS

Test Graphs

