

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Projector

Test Model: T7

Environmental Conditions

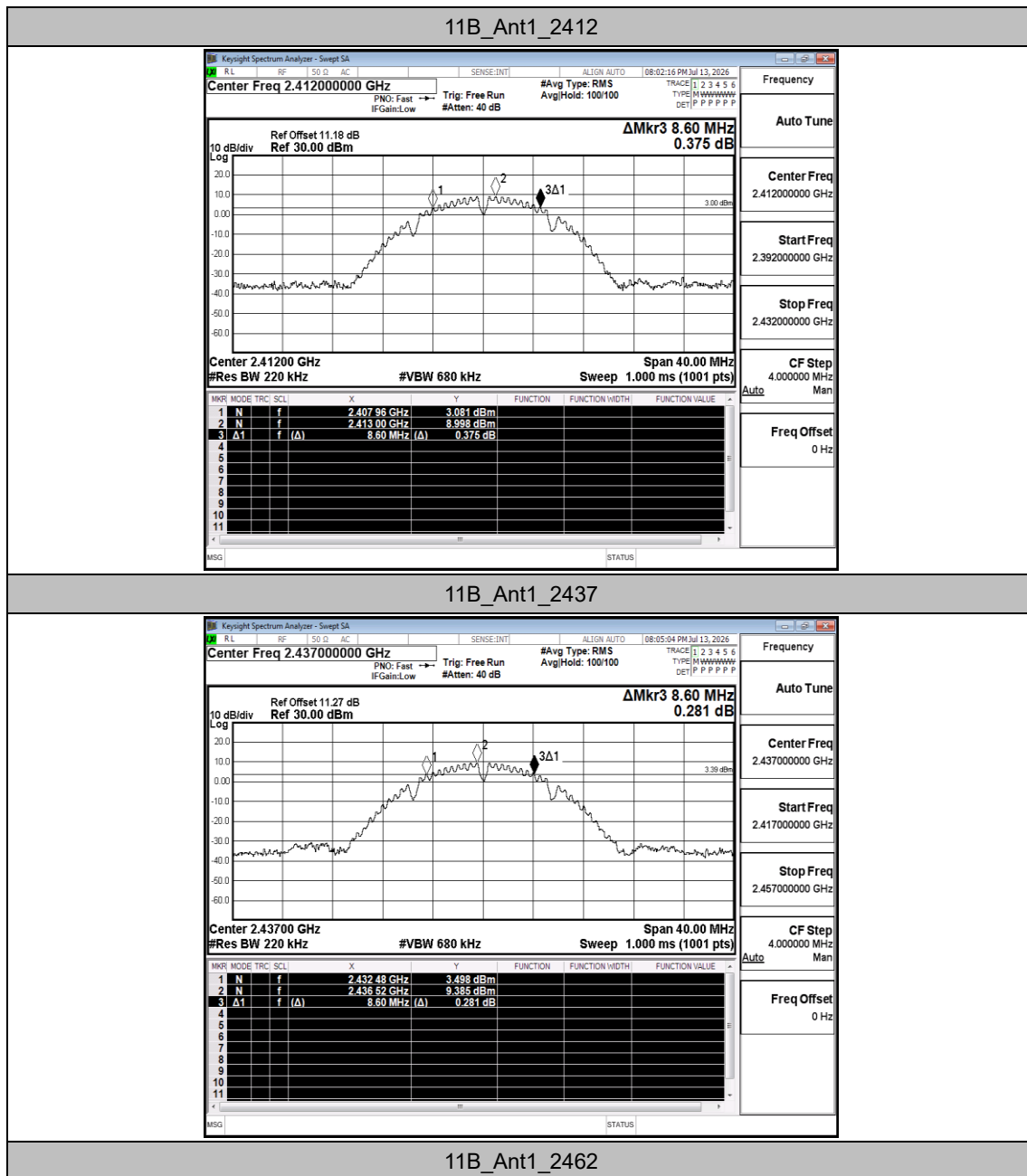
Temperature:	24.3°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

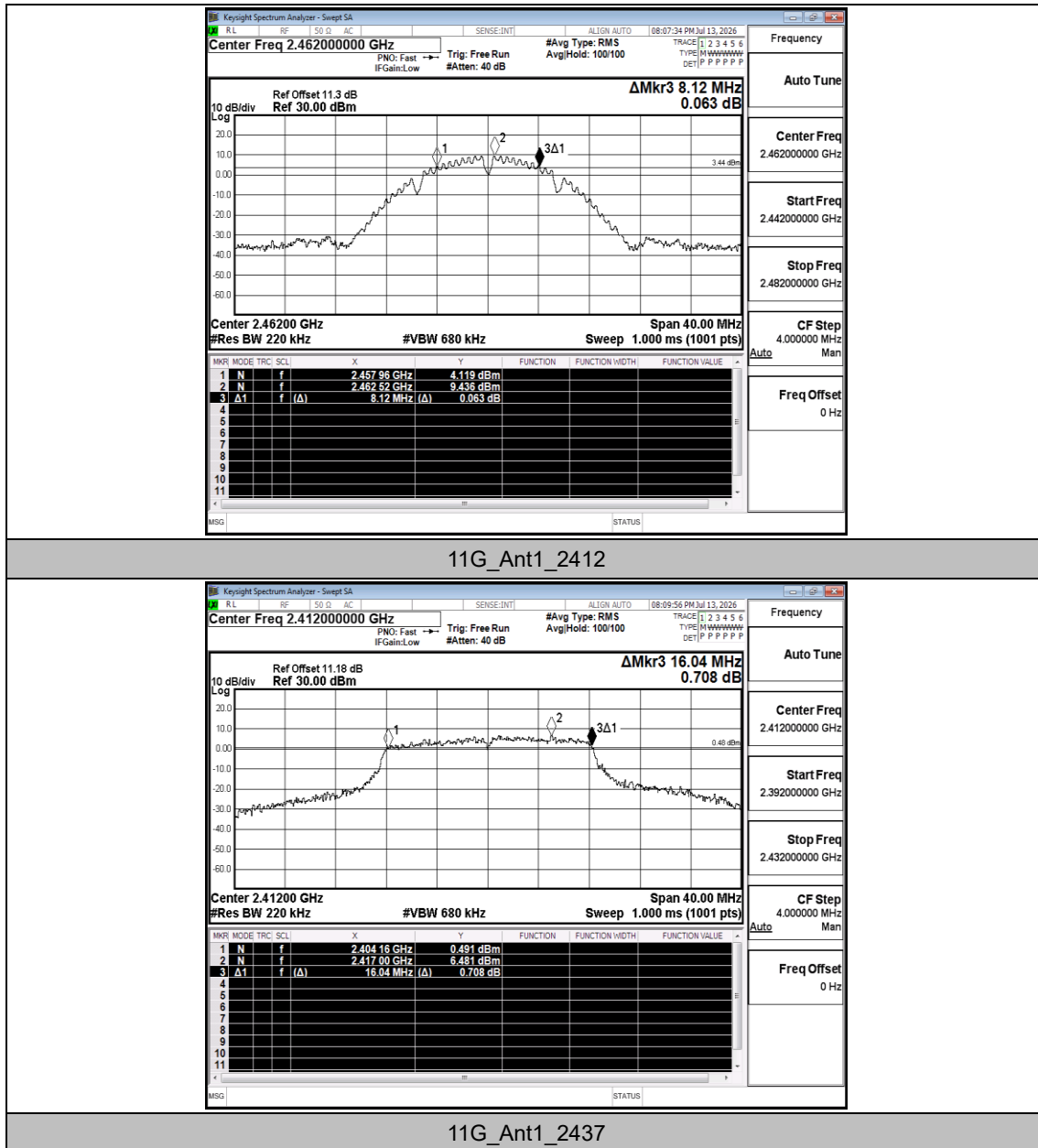
C.1 DTS Bandwidth

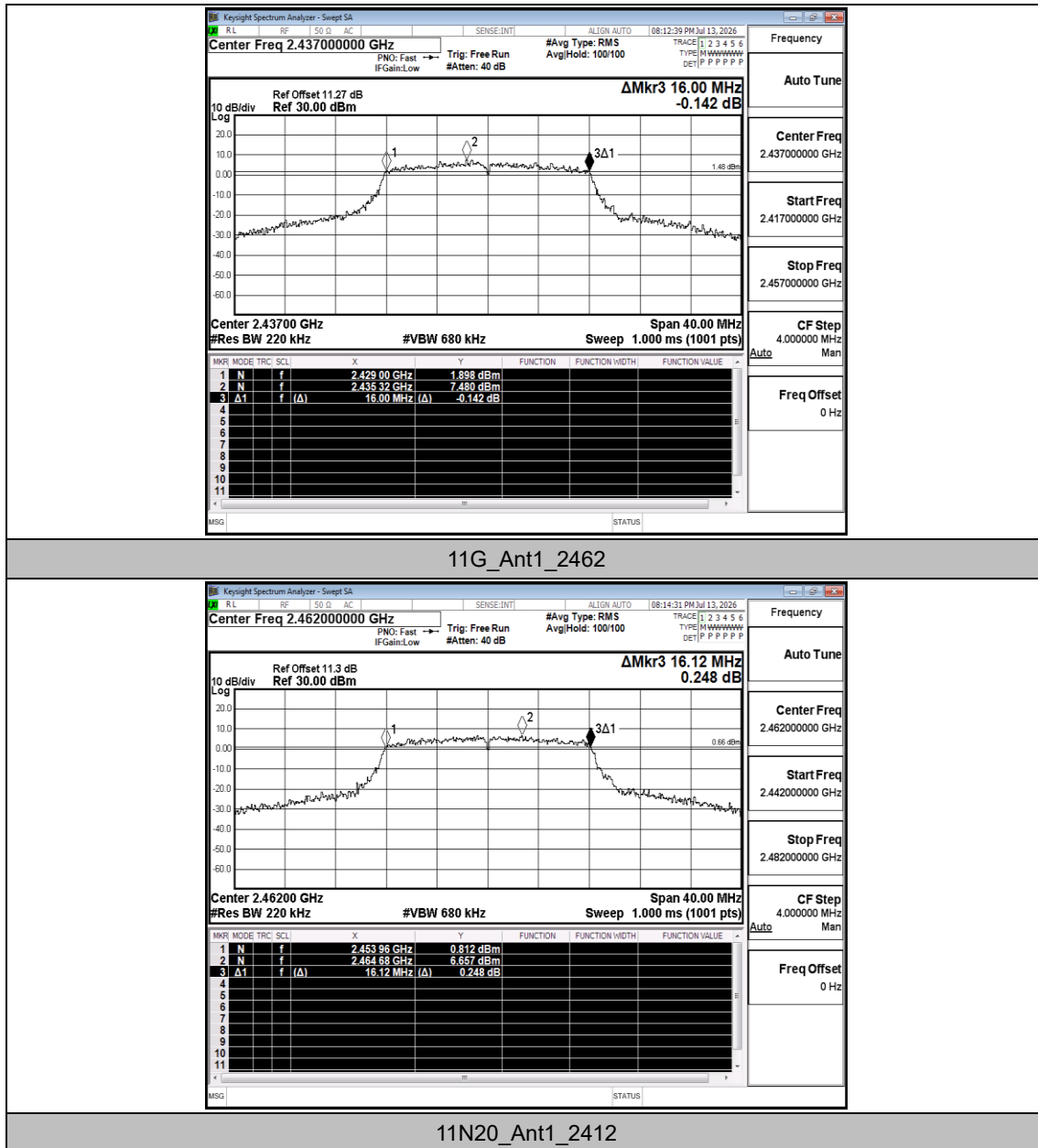
Test Result

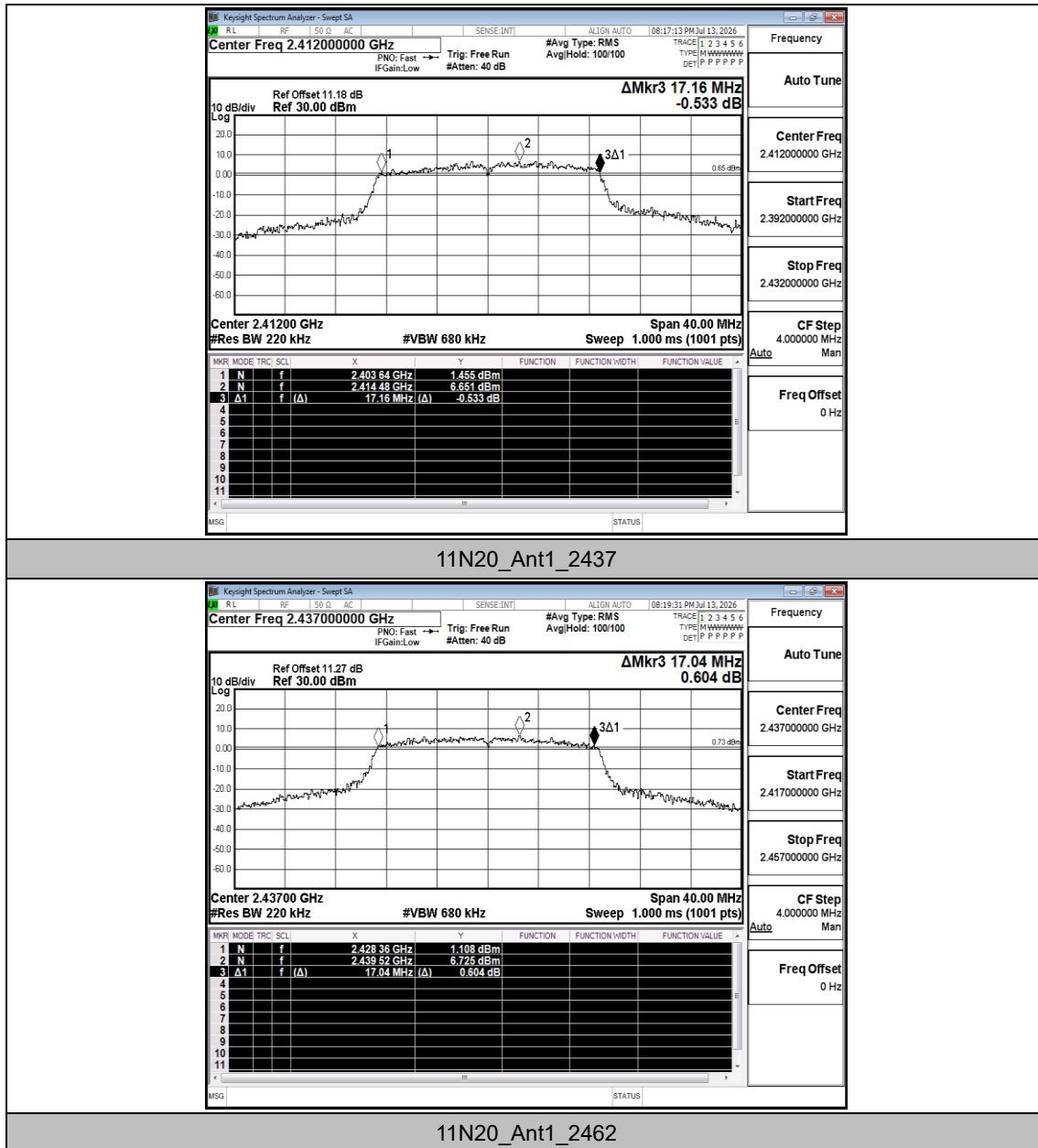
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.600	2407.960	2416.560	0.5	PASS
		2437	8.600	2432.480	2441.080	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.040	2404.160	2420.200	0.5	PASS
		2437	16.000	2429.000	2445.000	0.5	PASS
		2462	16.120	2453.960	2470.080	0.5	PASS
11N20	Ant1	2412	17.160	2403.640	2420.800	0.5	PASS
		2437	17.040	2428.360	2445.400	0.5	PASS
		2462	17.280	2453.360	2470.640	0.5	PASS
11N40	Ant1	2422	26.720	2413.040	2439.760	0.5	PASS
		2437	35.040	2419.560	2454.600	0.5	PASS
		2452	35.600	2434.080	2469.680	0.5	PASS
11AX20	Ant1	2412	17.360	2403.440	2420.800	0.5	PASS
		2437	17.080	2428.400	2445.480	0.5	PASS
		2462	17.320	2453.400	2470.720	0.5	PASS
11AX40	Ant1	2422	30.960	2409.120	2440.080	0.5	PASS
		2437	34.720	2420.040	2454.760	0.5	PASS
		2452	36.000	2434.000	2470.000	0.5	PASS

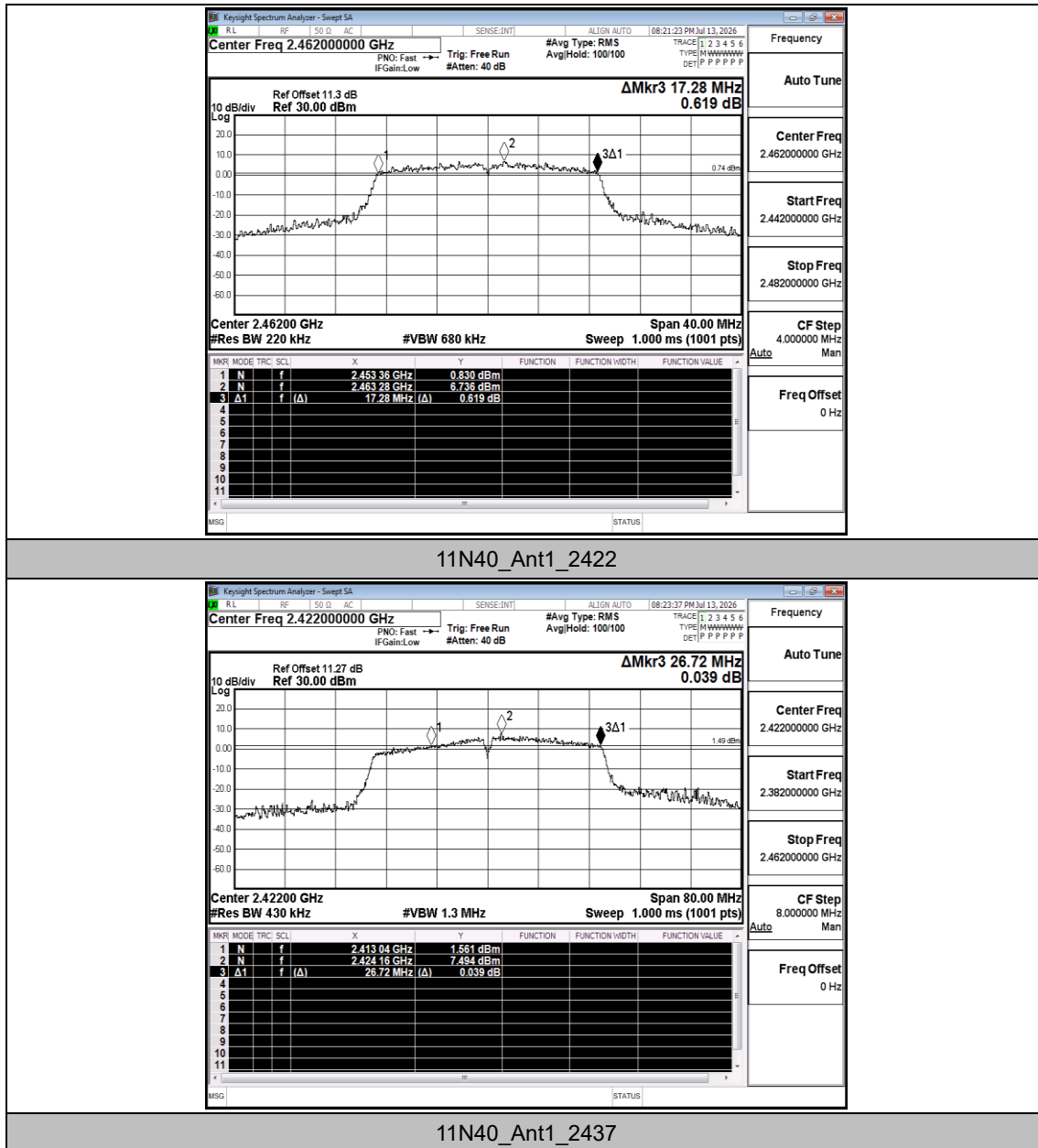
Test Graphs

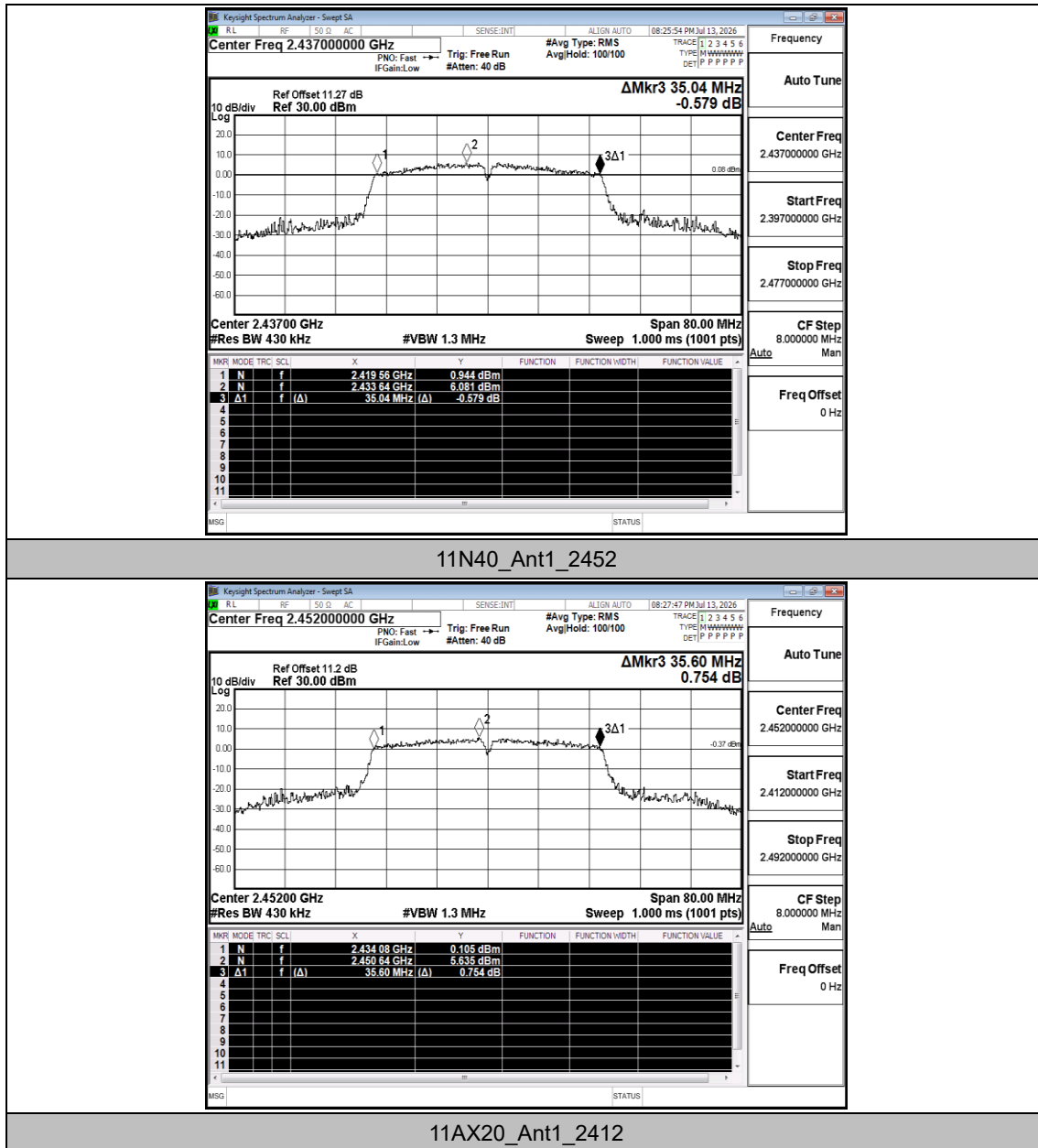


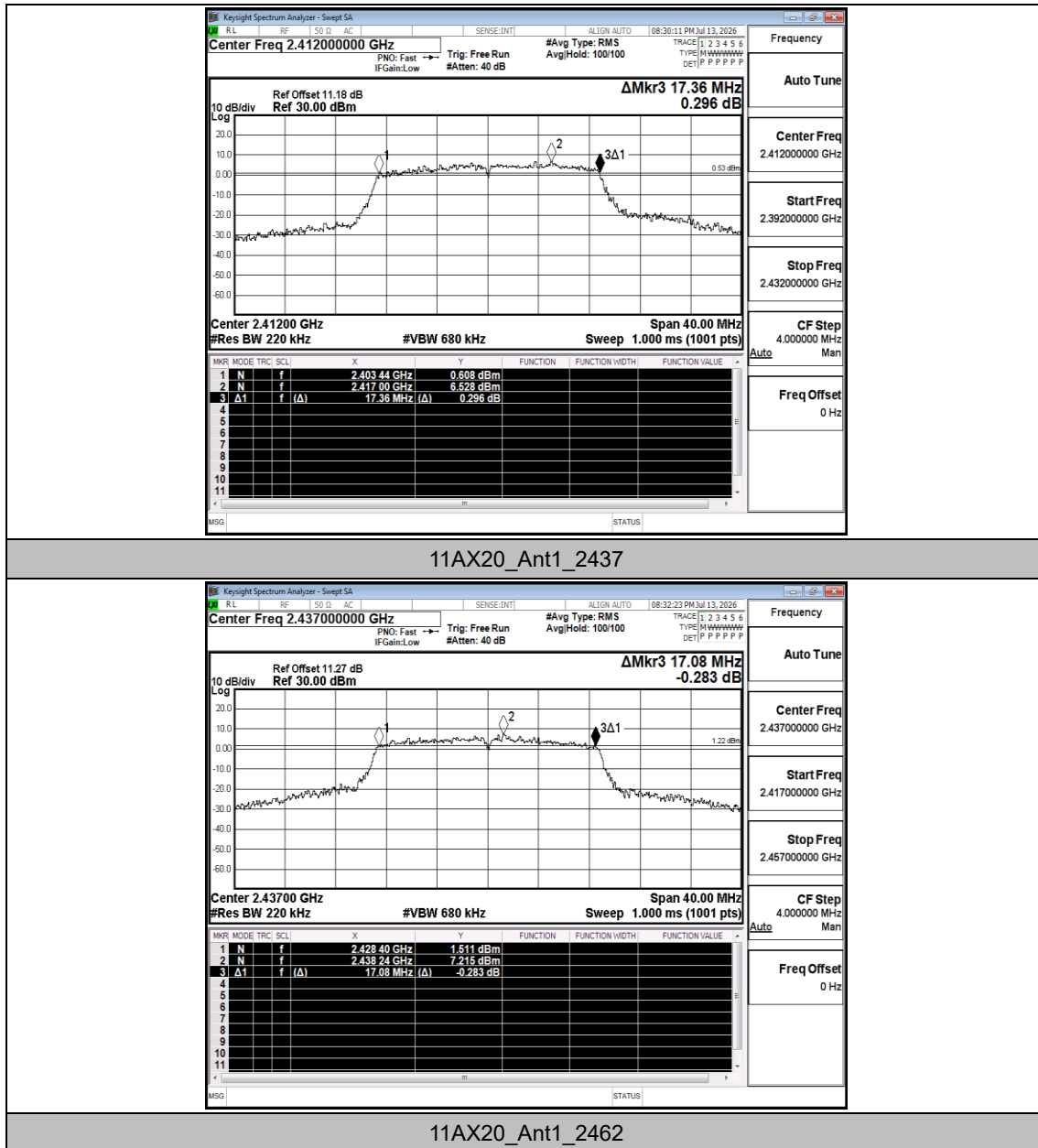


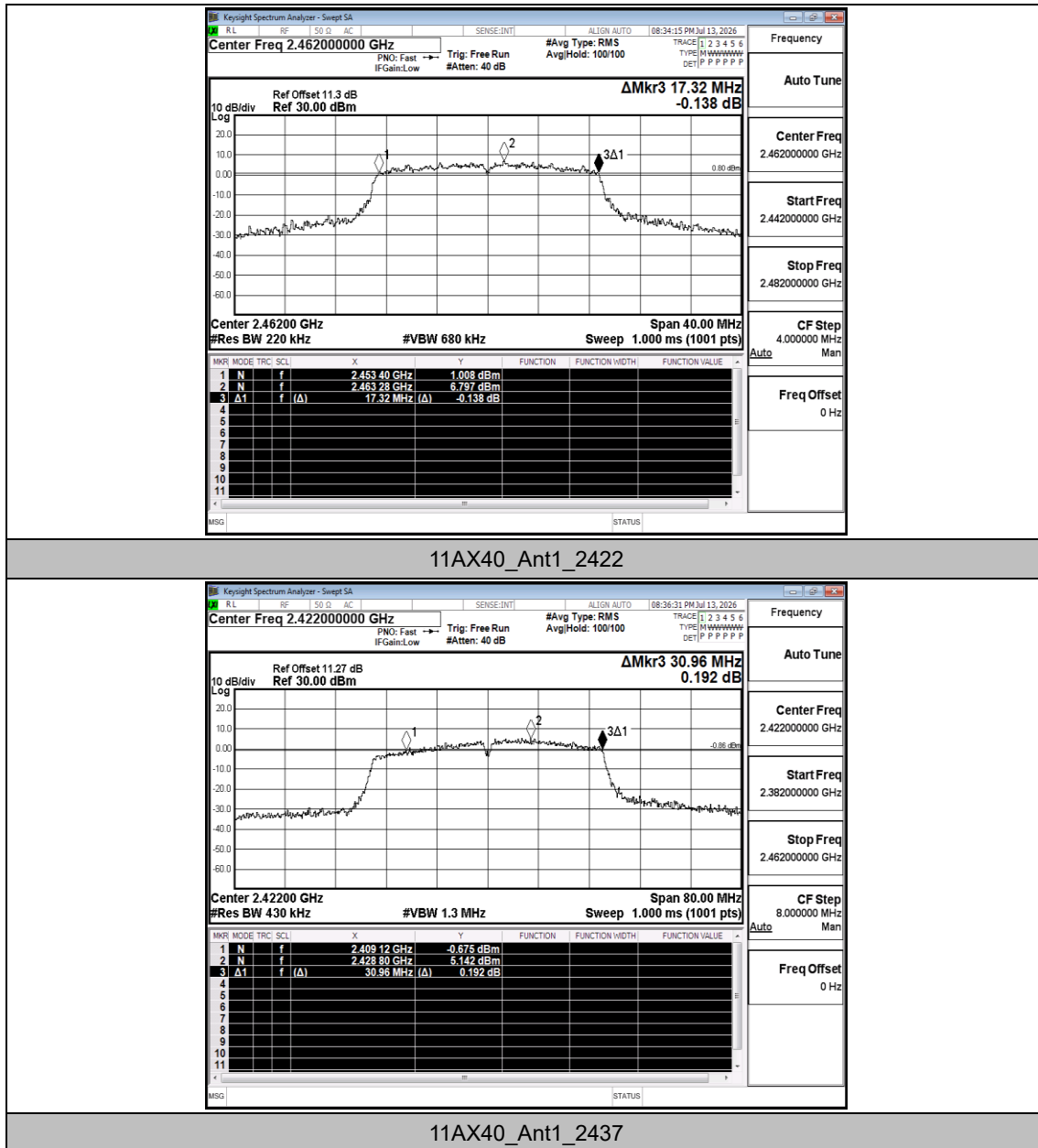


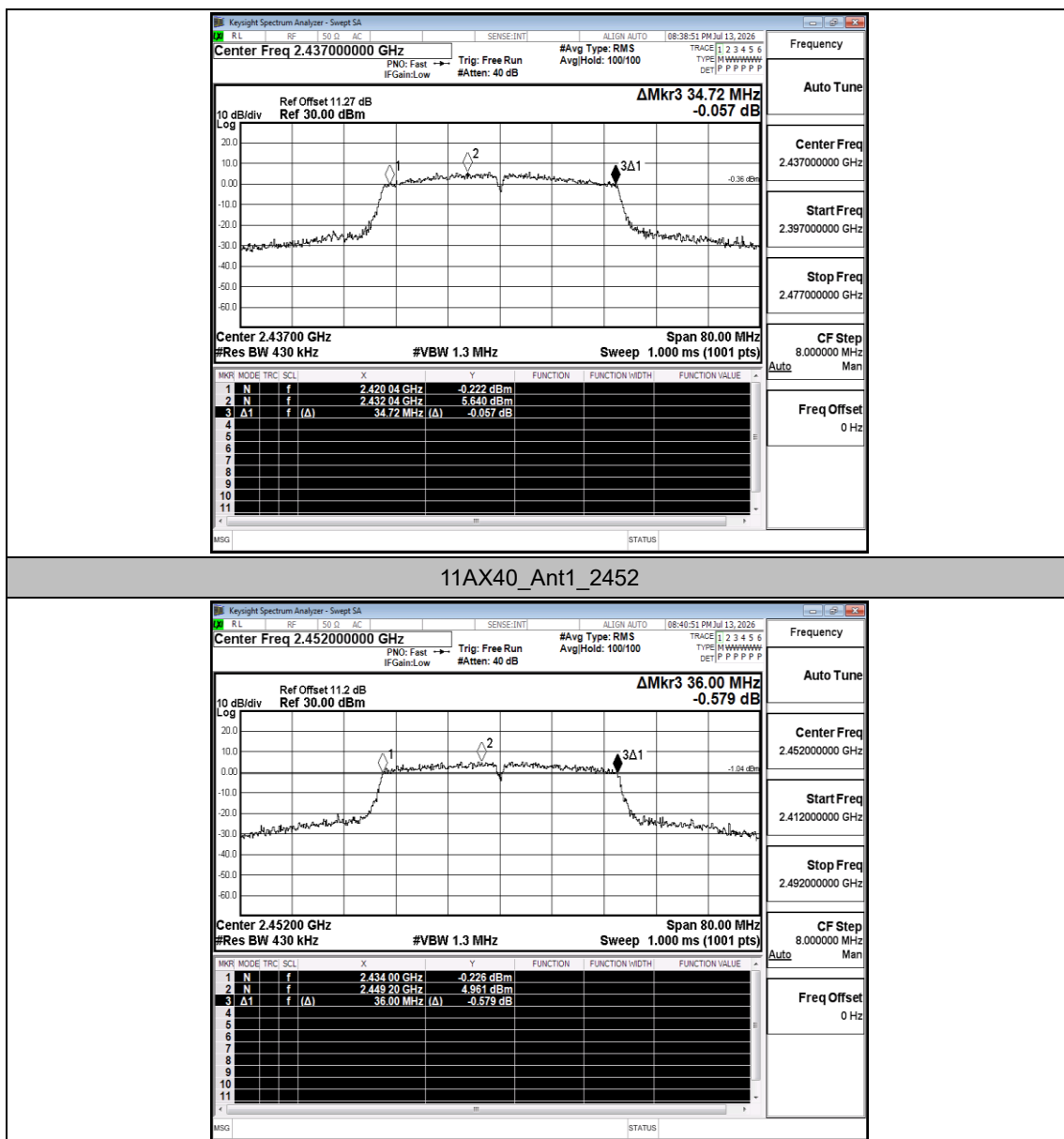












C.2 Maximum conducted output power

Test Result Average

TestMode	Antenna	Frequency [MHz]	Measured Power	DC Factor [dB]	AV Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.41	0.02	16.43	≤30.00	PASS
		2437	15.48	0.02	15.50	≤30.00	PASS
		2462	16.45	0.02	16.47	≤30.00	PASS
11G	Ant1	2412	16.03	0.12	16.15	≤30.00	PASS
		2437	16.12	0.15	16.27	≤30.00	PASS
		2462	15.73	0.15	15.88	≤30.00	PASS
11N20	Ant1	2412	16.08	0.13	16.21	≤30.00	PASS
		2437	16.12	0.13	16.25	≤30.00	PASS
		2462	15.70	0.16	15.86	≤30.00	PASS
11N40	Ant1	2422	15.45	0.32	15.77	≤30.00	PASS
		2437	15.34	0.32	15.66	≤30.00	PASS
		2452	15.35	0.32	15.67	≤30.00	PASS
11AX20	Ant1	2412	15.94	0.13	16.07	≤30.00	PASS
		2437	16.00	0.13	16.13	≤30.00	PASS
		2462	15.62	0.13	15.75	≤30.00	PASS
11AX40	Ant1	2422	13.94	0.26	14.20	≤30.00	PASS
		2437	14.90	0.32	15.22	≤30.00	PASS
		2452	14.87	0.26	15.13	≤30.00	PASS

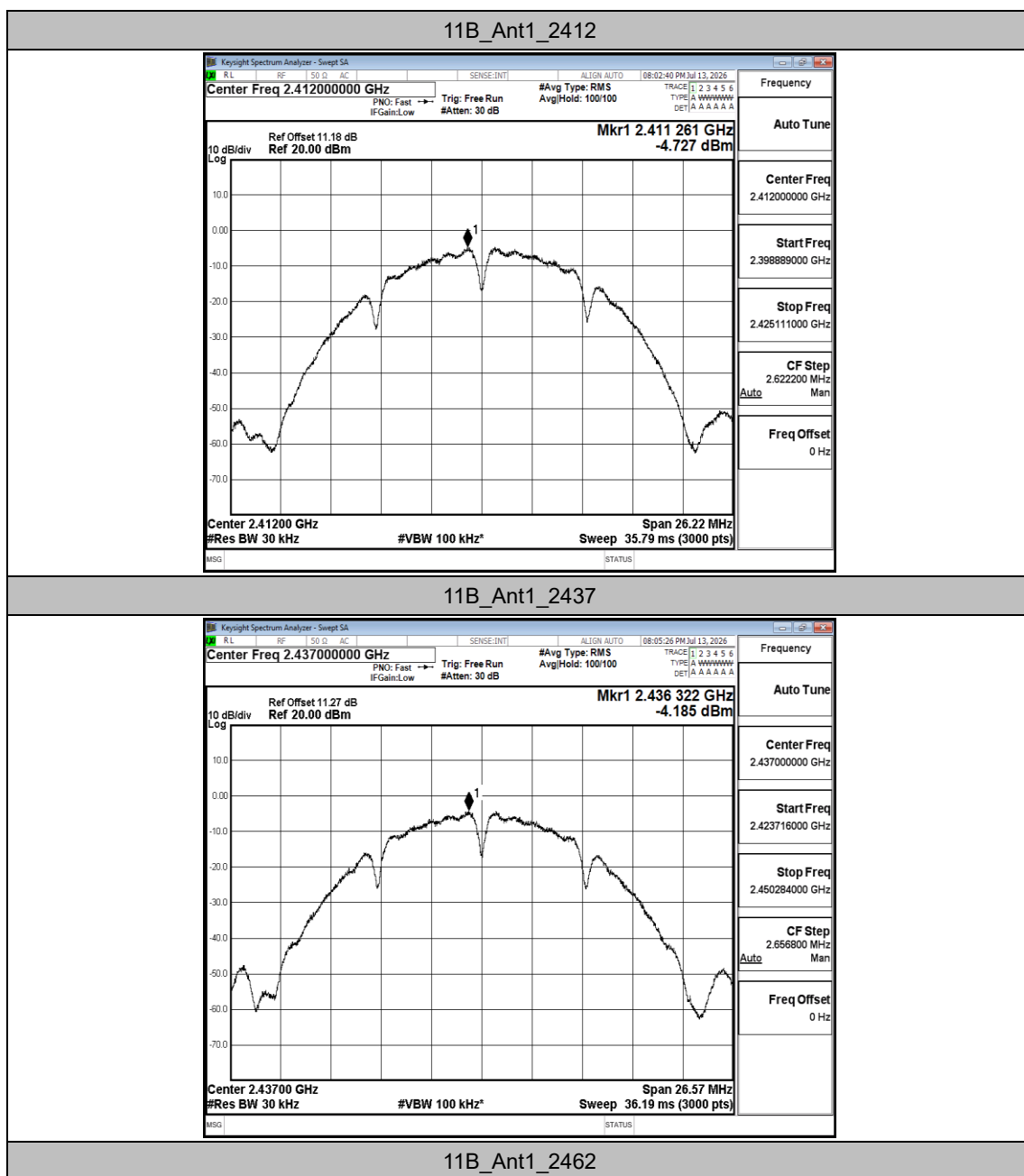
C.3 Maximum power spectral density

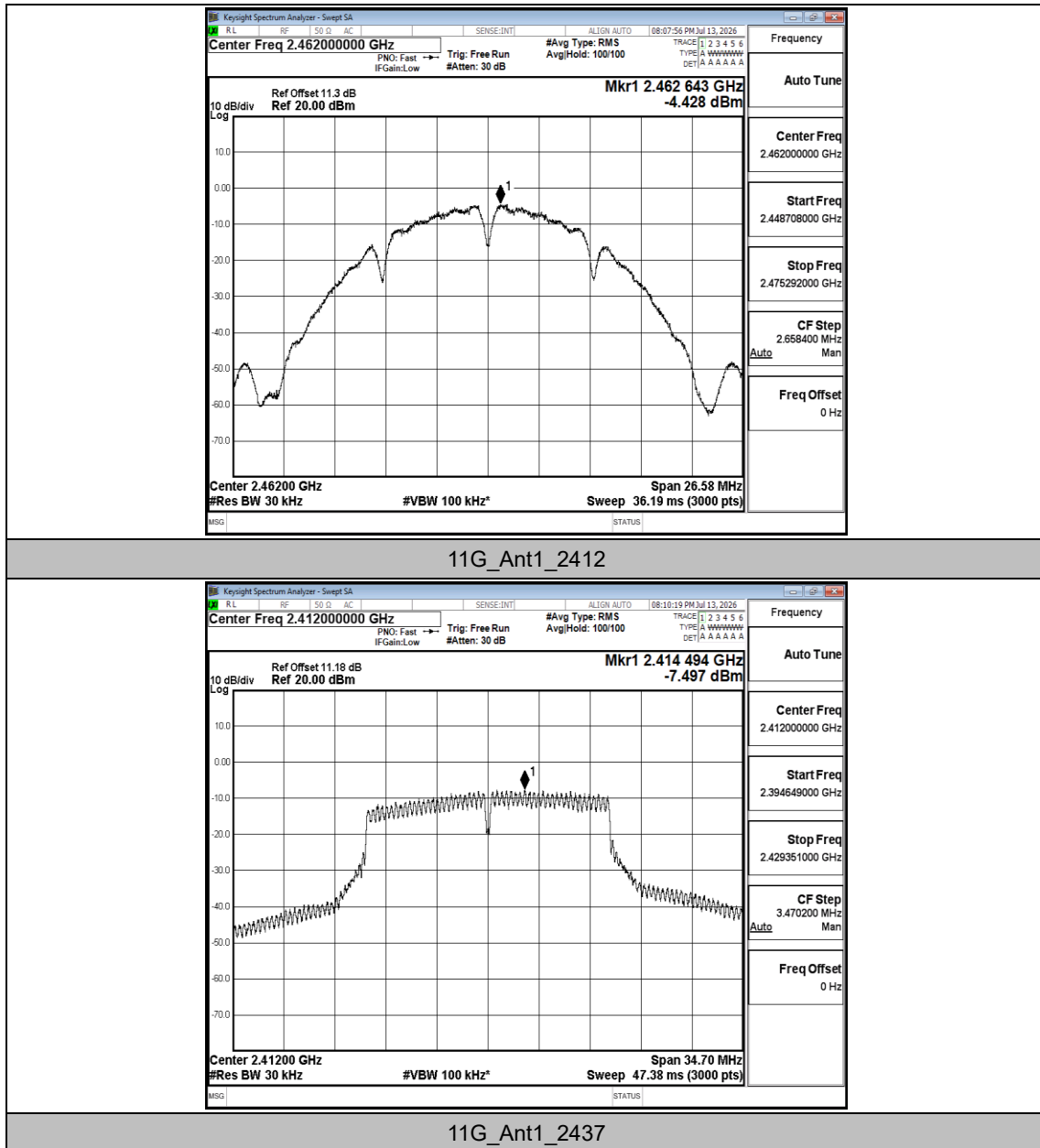
Test Result

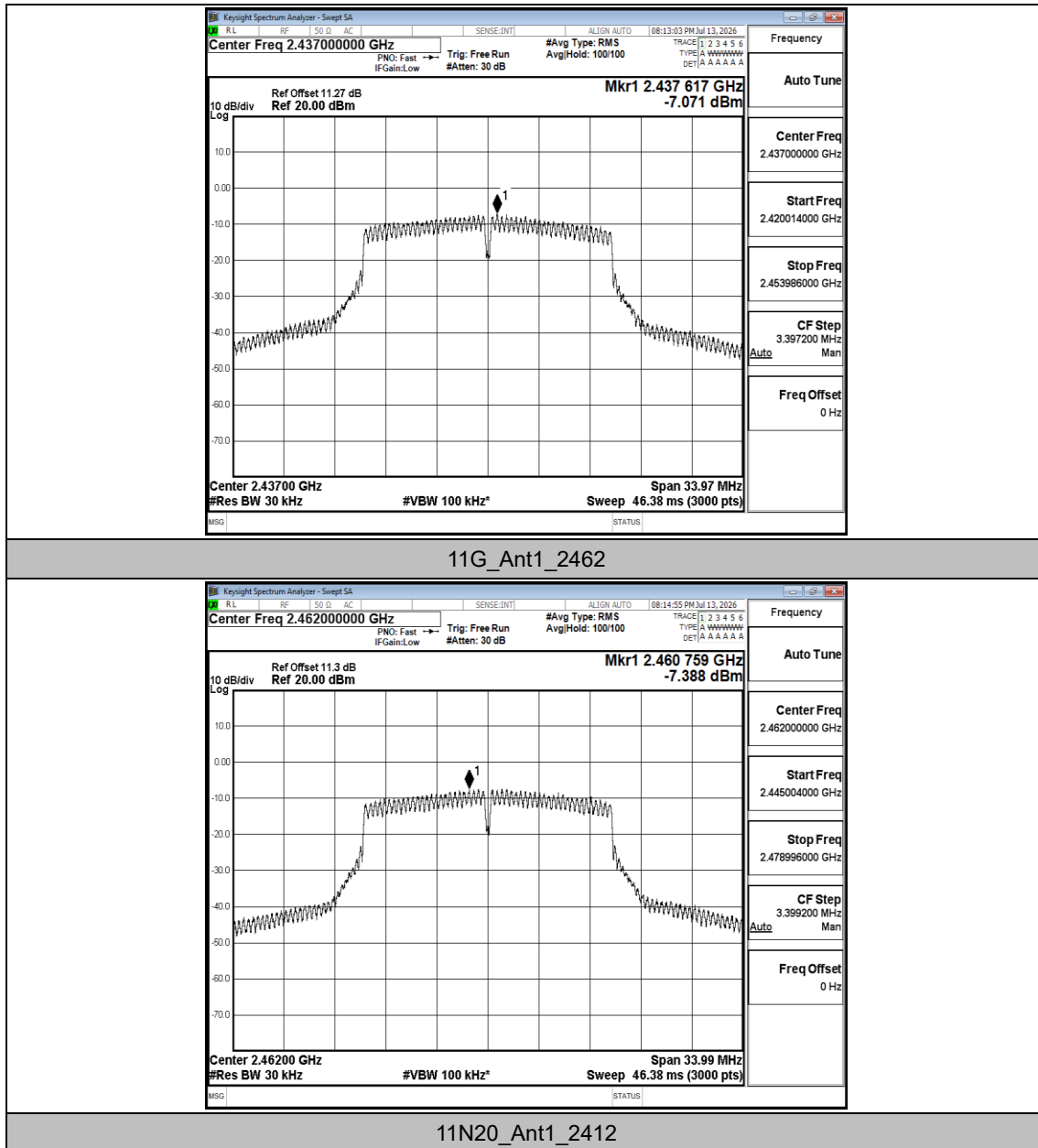
TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-4.73	0.02	-4.71	-14.71	≤8.00	PASS
		2437	-4.19	0.02	-4.17	-14.17	≤8.00	PASS
		2462	-4.43	0.02	-4.41	-14.41	≤8.00	PASS
11G	Ant1	2412	-7.5	0.12	-7.38	-17.38	≤8.00	PASS
		2437	-7.07	0.15	-6.92	-16.92	≤8.00	PASS
		2462	-7.39	0.15	-7.24	-17.24	≤8.00	PASS
11N20	Ant1	2412	-7.98	0.13	-7.85	-17.85	≤8.00	PASS
		2437	-7.66	0.13	-7.53	-17.53	≤8.00	PASS
		2462	-7.3	0.16	-7.14	-17.14	≤8.00	PASS
11N40	Ant1	2422	-10.73	0.32	-10.41	-20.41	≤8.00	PASS
		2437	-10.95	0.32	-10.63	-20.63	≤8.00	PASS
		2452	-11.65	0.32	-11.33	-21.33	≤8.00	PASS
11AX20	Ant1	2412	-7.85	0.13	-7.72	-17.72	≤8.00	PASS
		2437	-7.46	0.13	-7.33	-17.33	≤8.00	PASS
		2462	-7.91	0.13	-7.78	-17.78	≤8.00	PASS
11AX40	Ant1	2422	-12.06	0.26	-11.80	-21.8	≤8.00	PASS
		2437	-11.54	0.32	-11.22	-21.22	≤8.00	PASS
		2452	-12.24	0.26	-11.98	-21.98	≤8.00	PASS

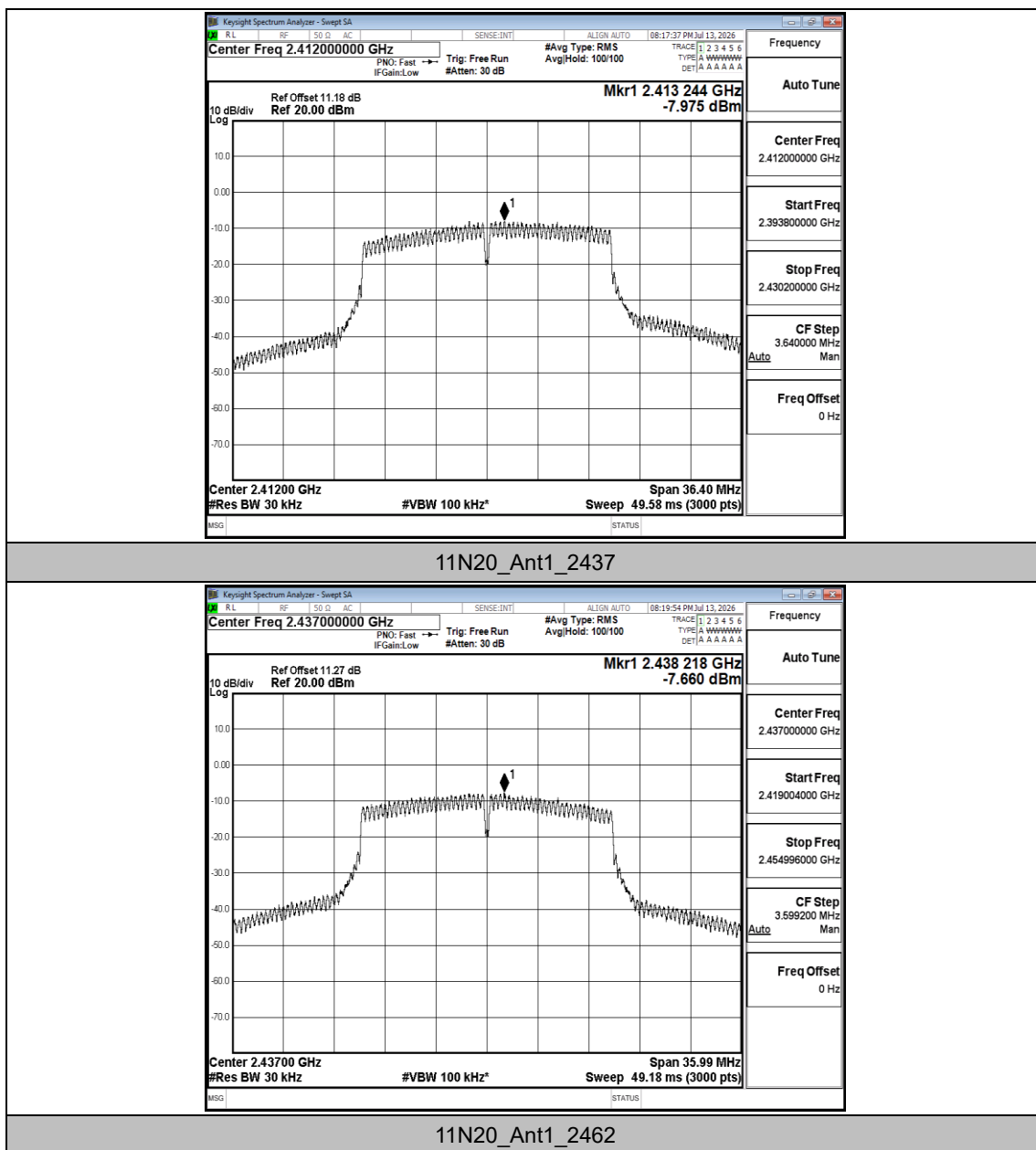
Result[dBm/3kHz] =Result[dBm/30kHz]+10*Log(3/30)

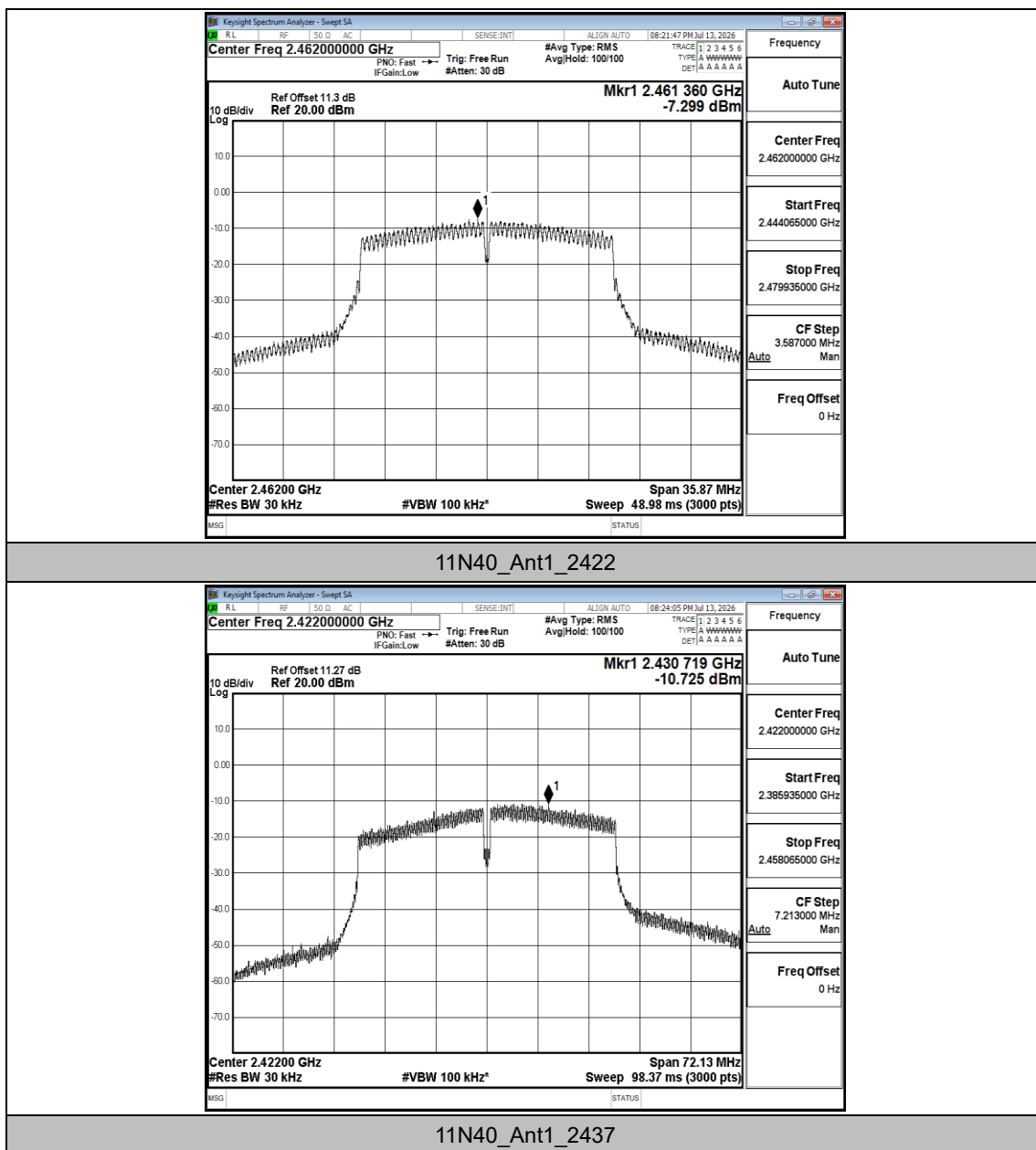
Test Graphs

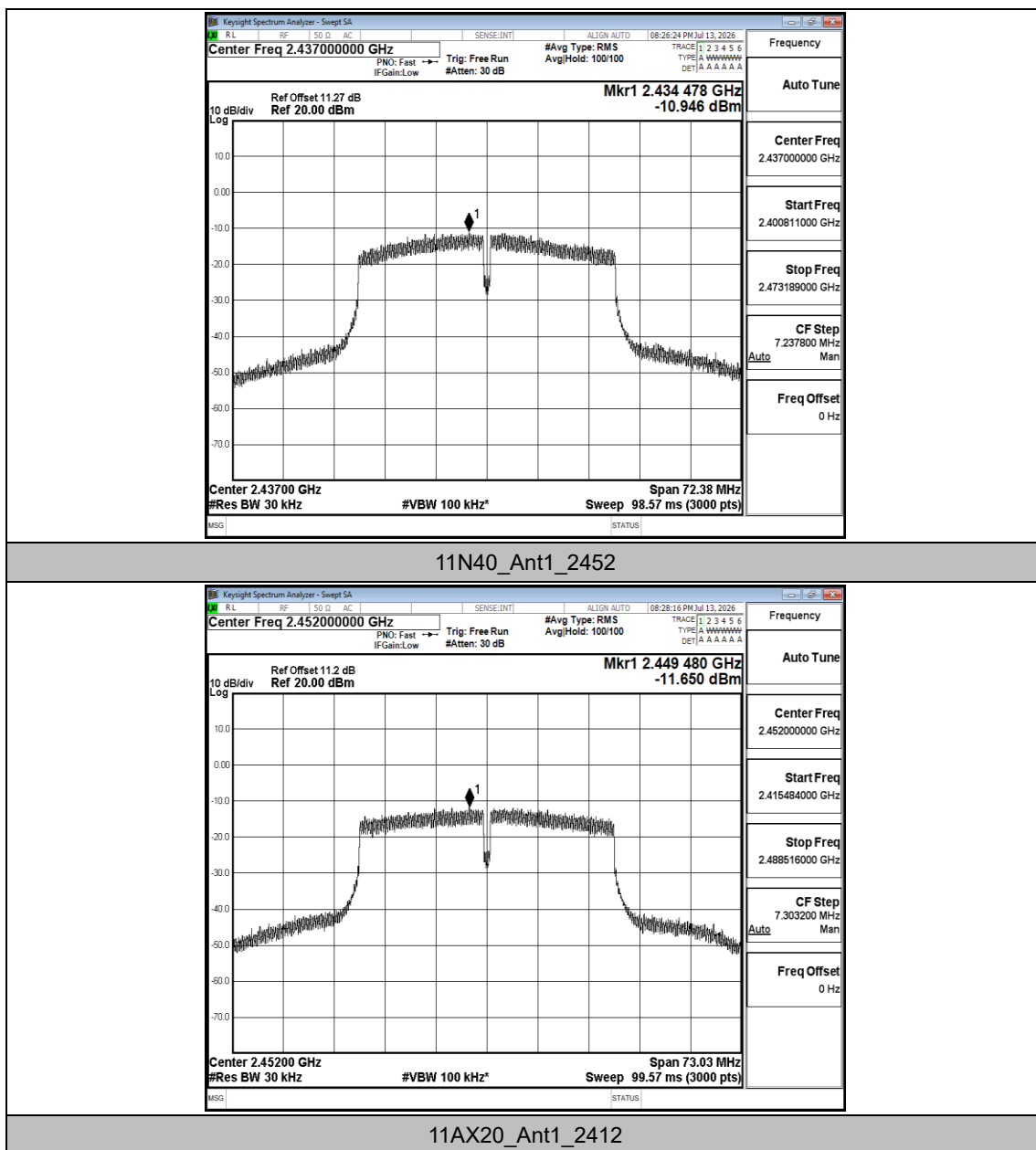


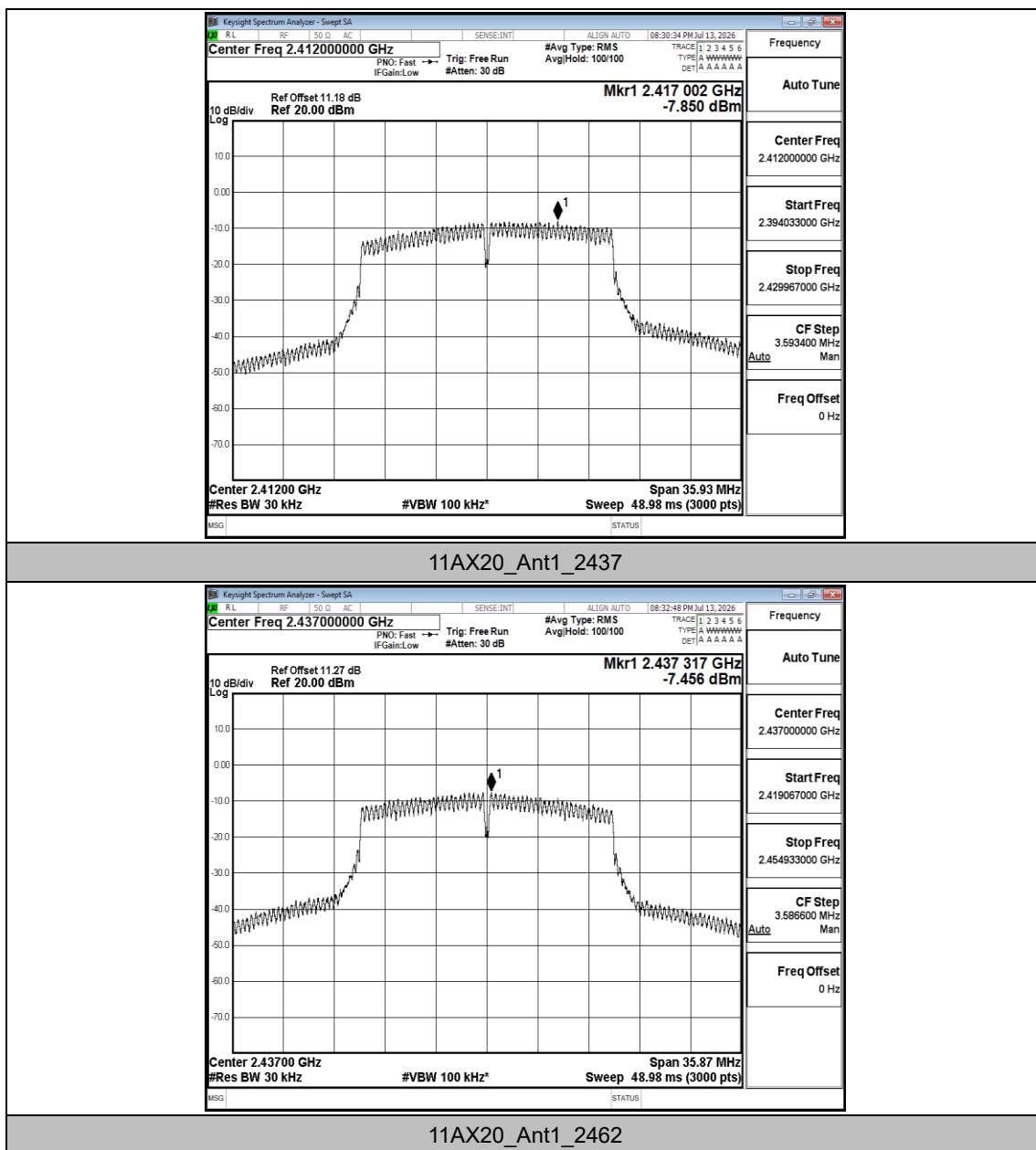


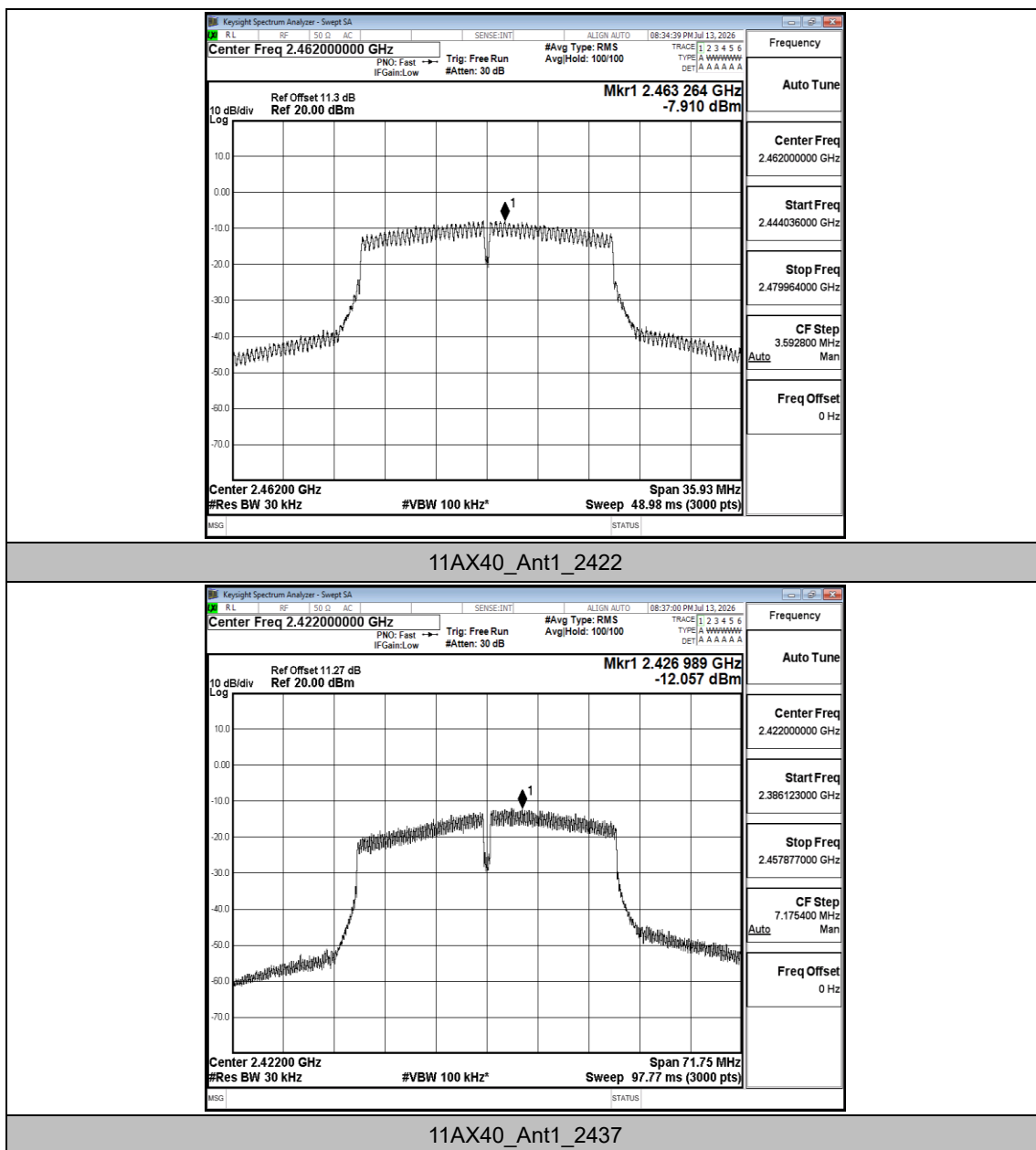


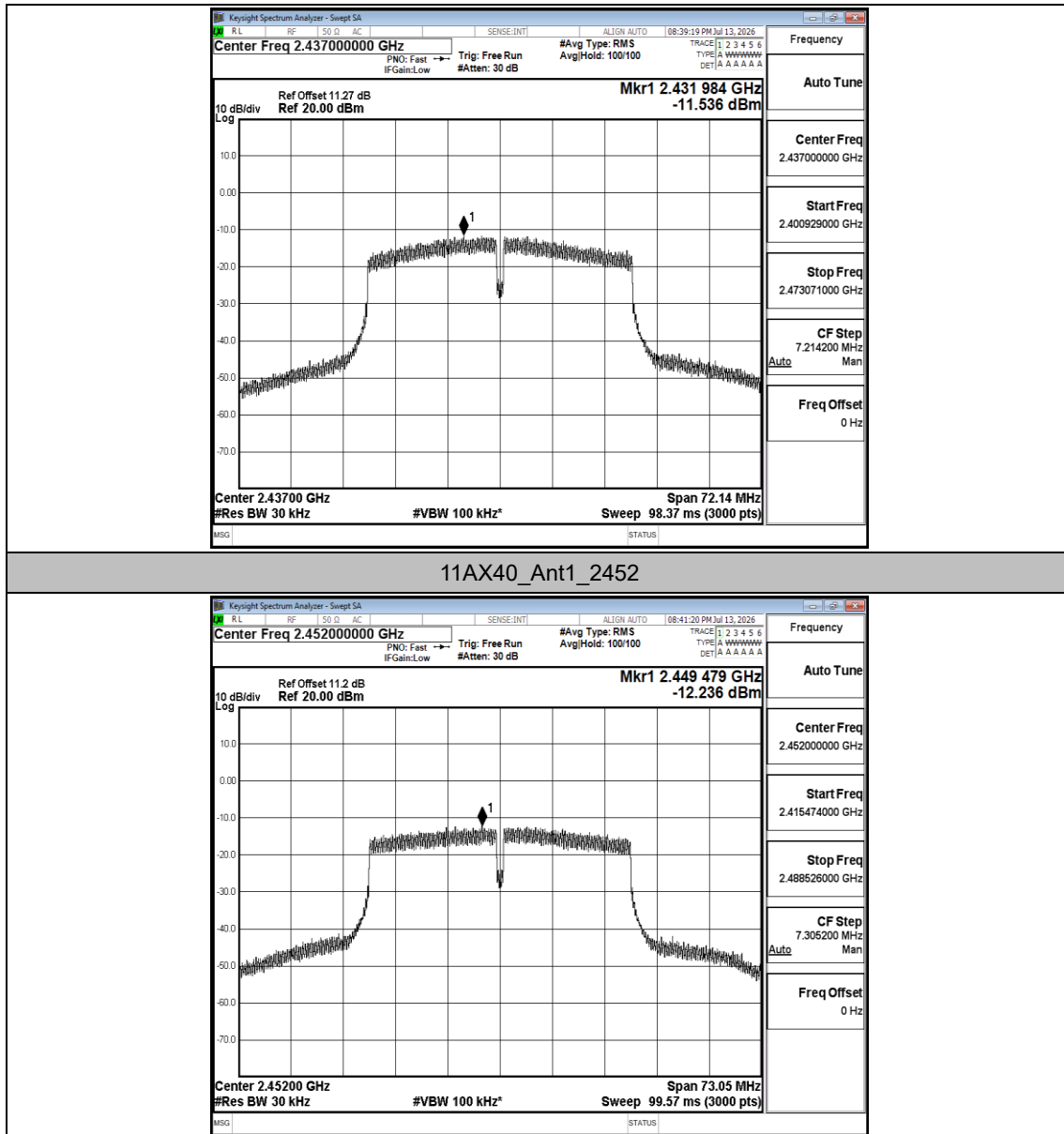










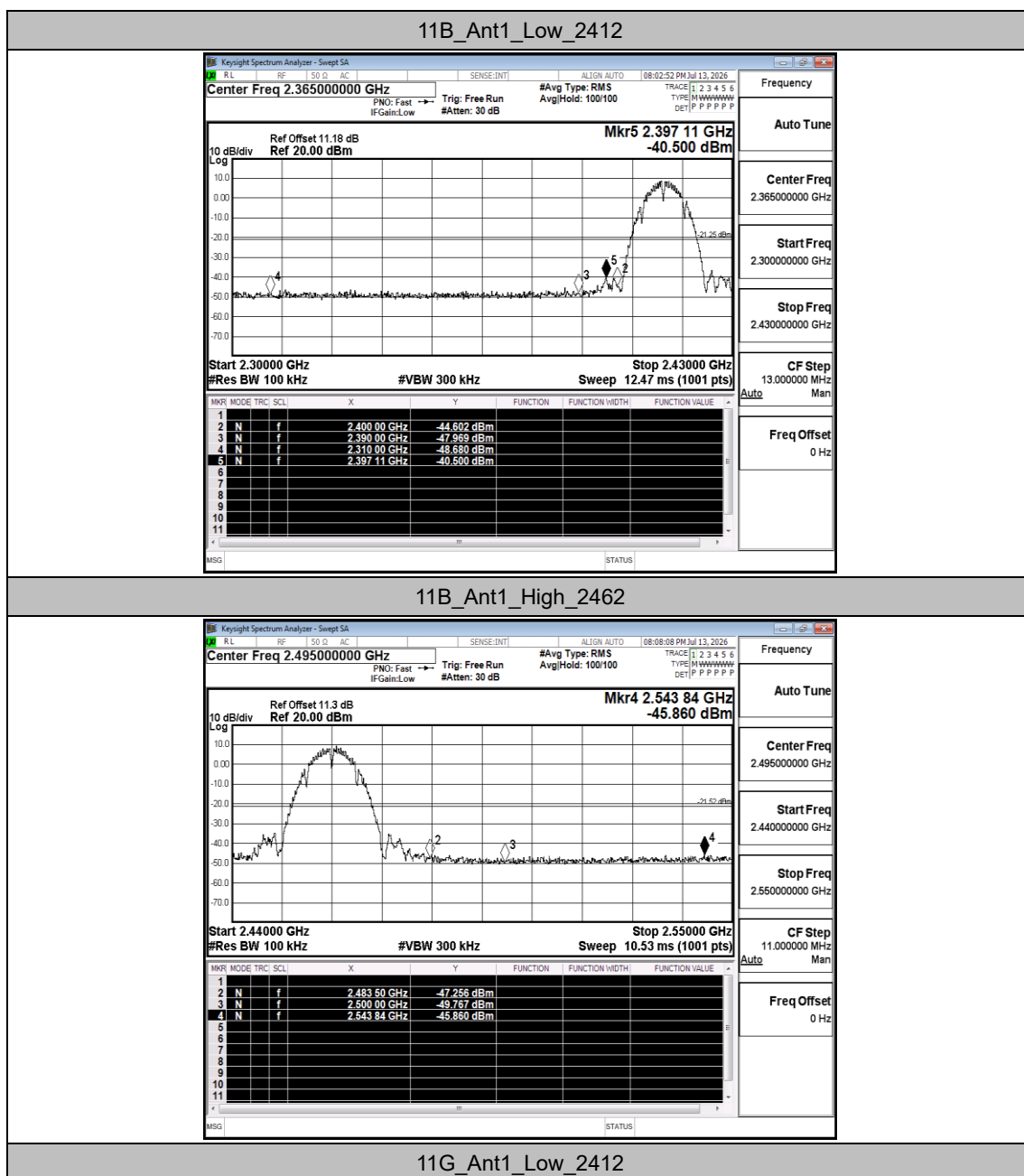


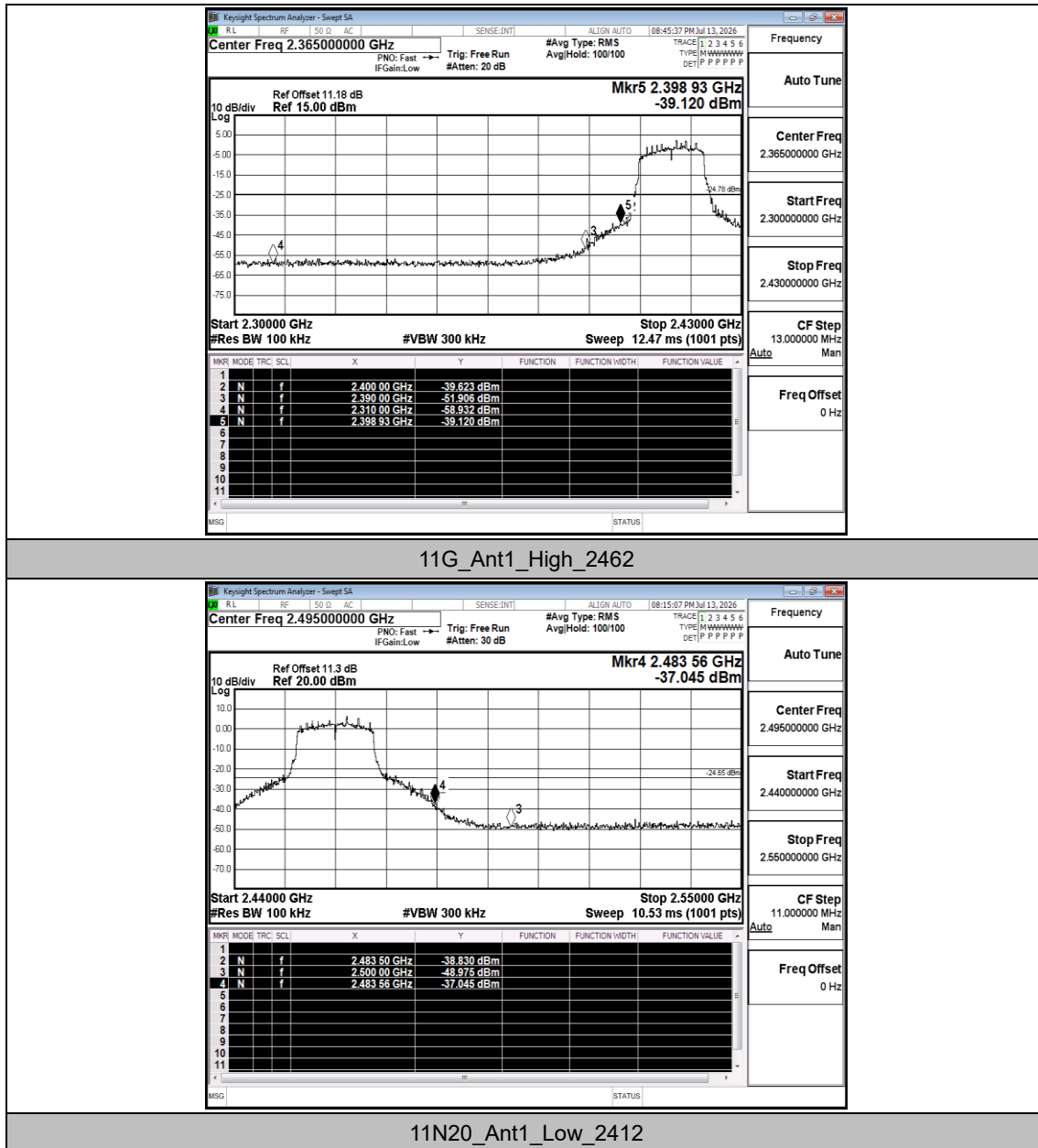
C.4 Band edge measurements

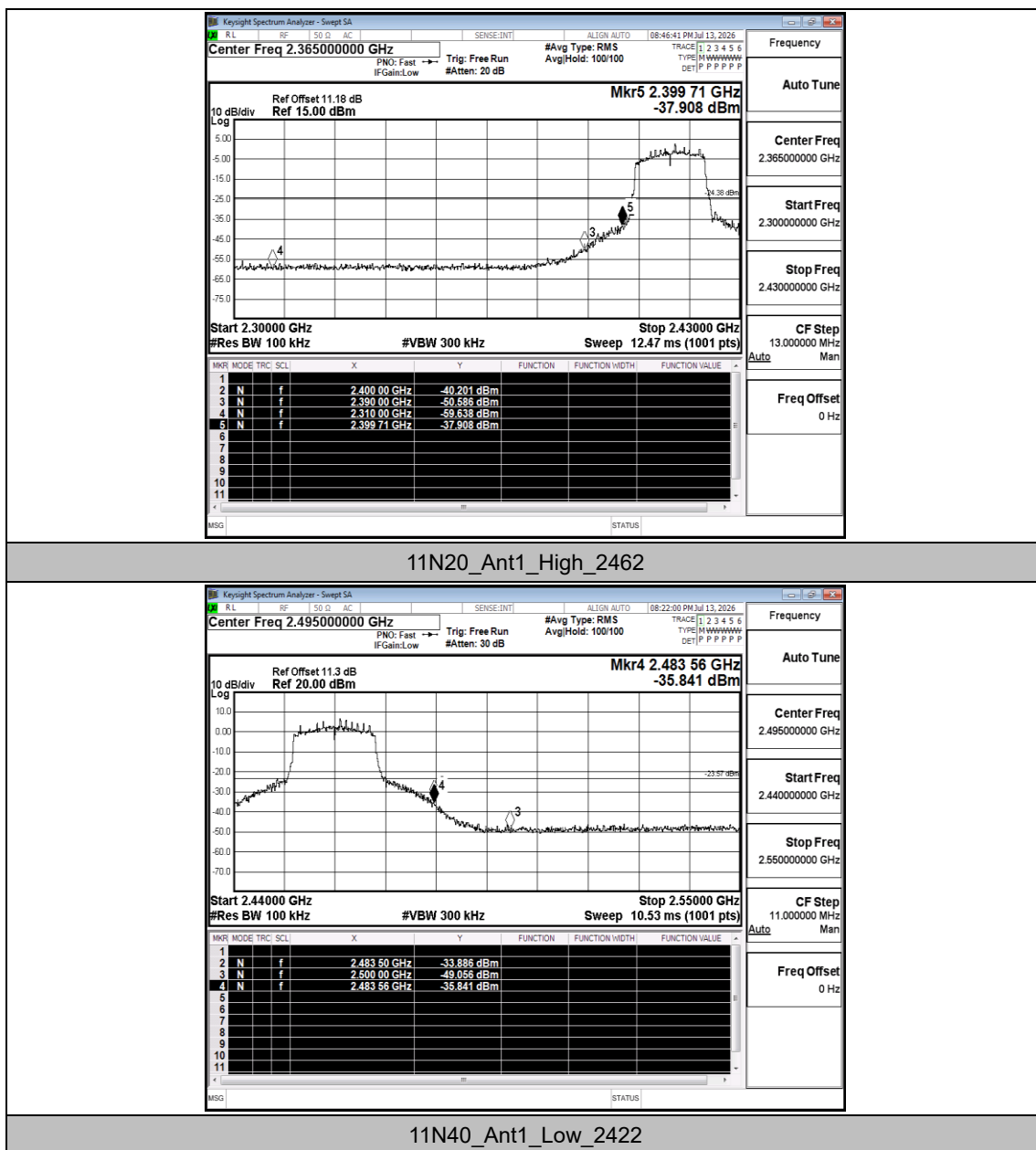
Test Result

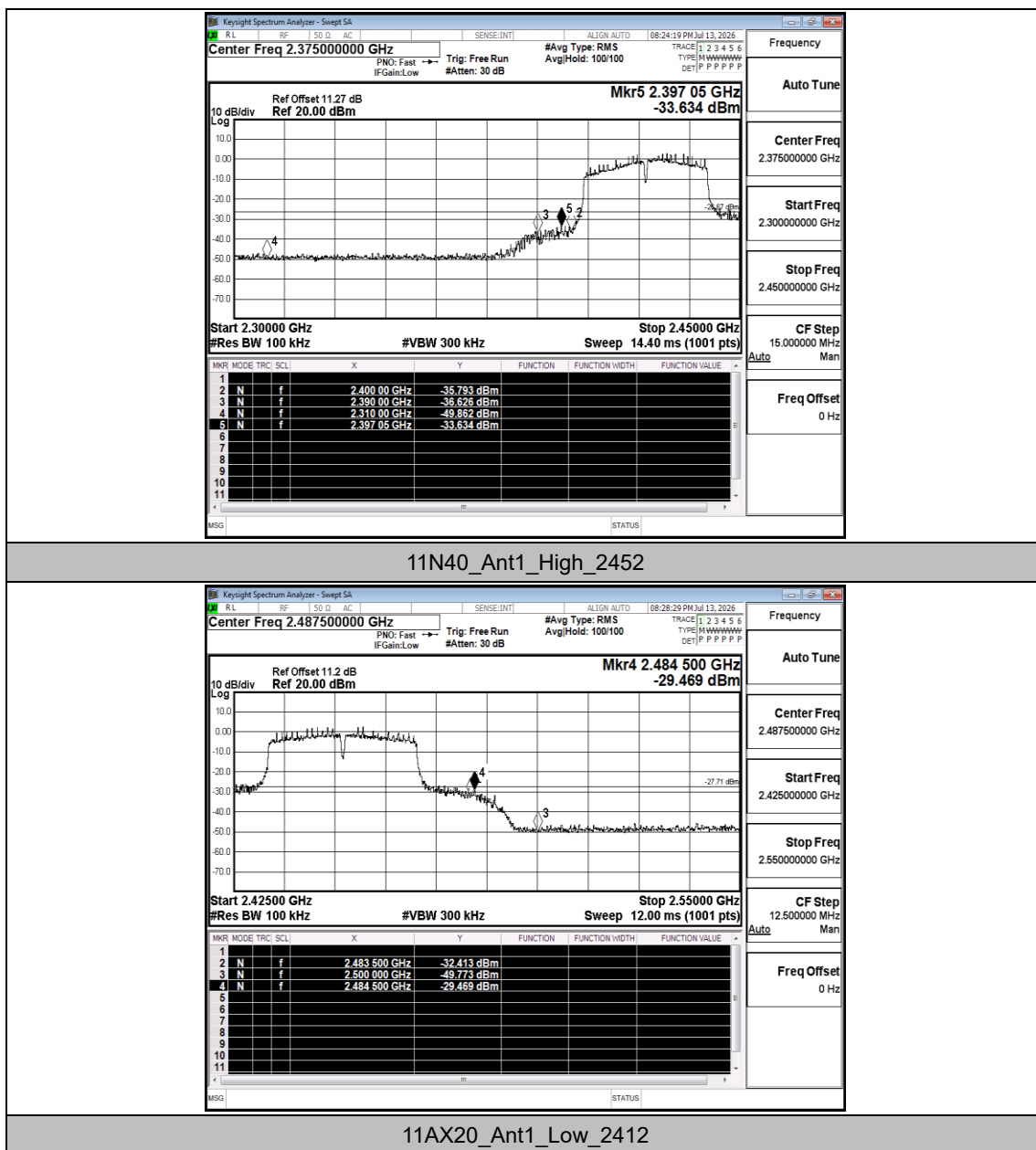
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.75	-40.5	≤ -21.25	PASS
		High	2462	8.48	-45.86	≤ -21.52	PASS
11G	Ant1	Low	2412	5.22	-39.12	≤ -24.78	PASS
		High	2462	5.35	-37.05	≤ -24.65	PASS
11N20	Ant1	Low	2412	5.62	-37.91	≤ -24.38	PASS
		High	2462	6.43	-35.84	≤ -23.57	PASS
11N40	Ant1	Low	2422	3.33	-33.63	≤ -26.67	PASS
		High	2452	2.29	-29.47	≤ -27.71	PASS
11AX20	Ant1	Low	2412	5.50	-27.73	≤ -24.5	PASS
		High	2462	6.31	-35.53	≤ -23.69	PASS
11AX40	Ant1	Low	2422	1.89	-38.01	≤ -28.11	PASS
		High	2452	1.79	-31.01	≤ -28.21	PASS

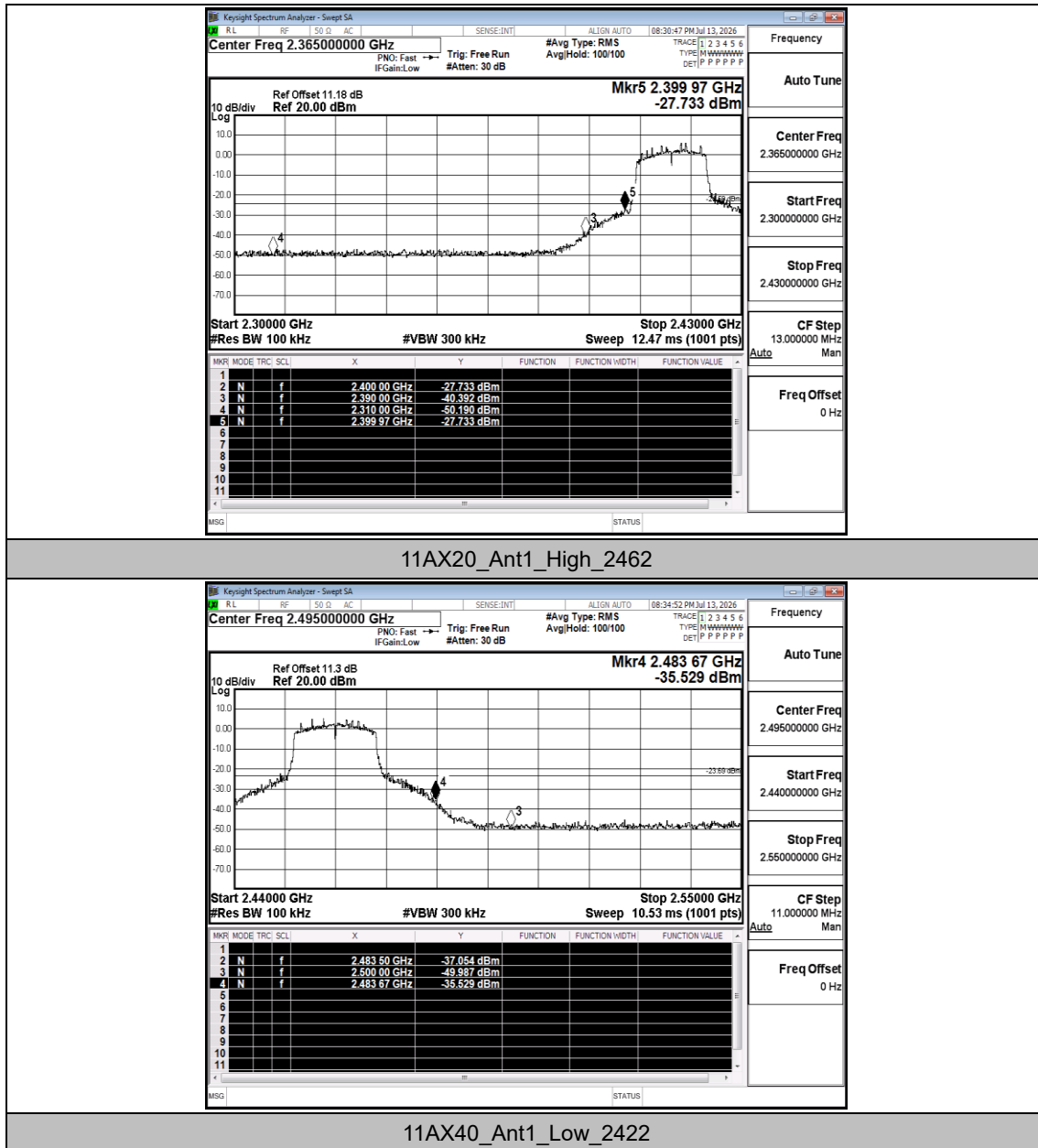
Test Graphs

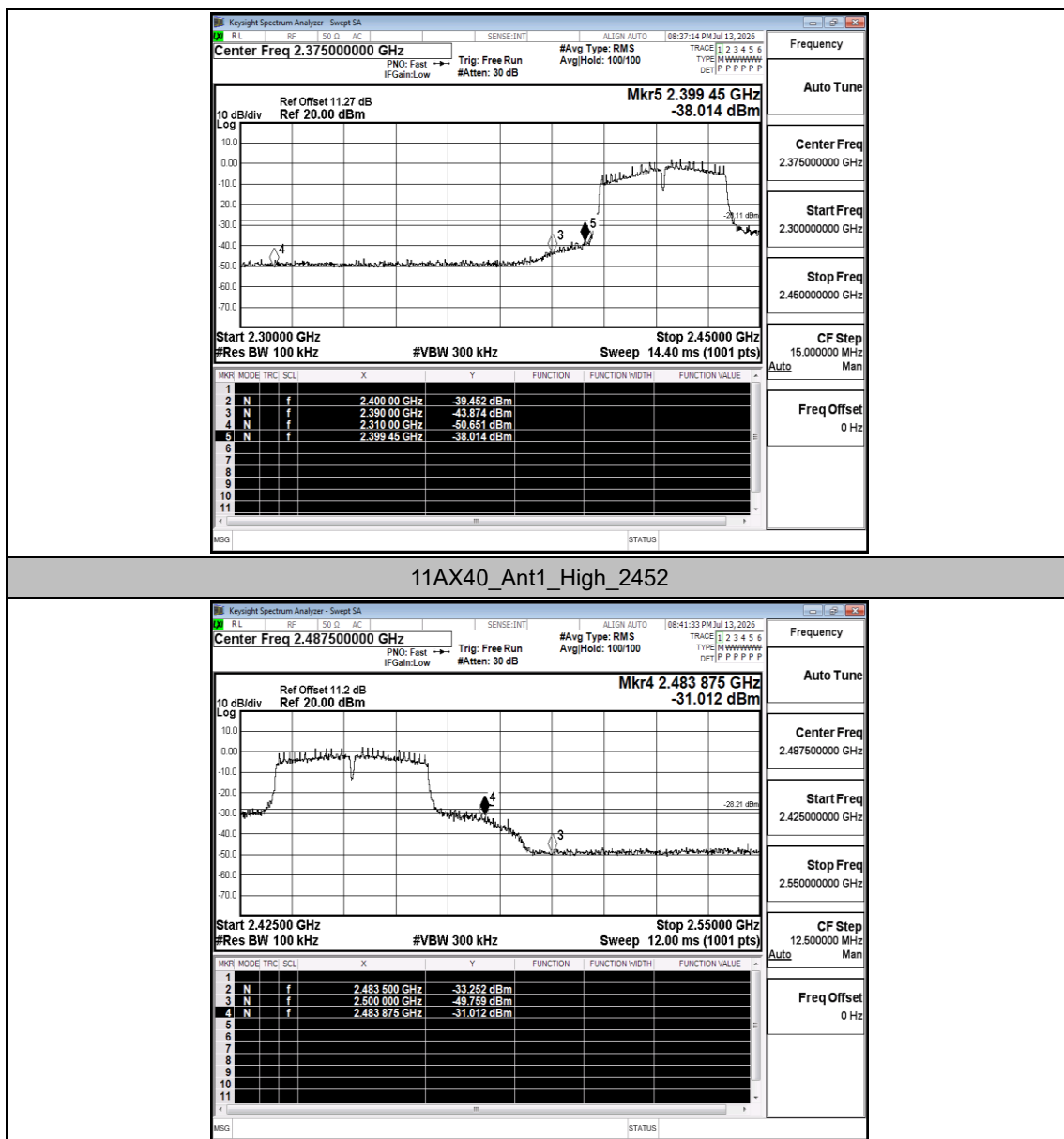












C.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.41	6.41	---	PASS
			30~1000	6.41	-69.99	≤-23.59	PASS
			1000~26500	6.41	-36.96	≤-23.59	PASS
		2437	Reference	9.15	9.15	---	PASS
			30~1000	9.15	-70.29	≤-20.85	PASS
			1000~26500	9.15	-44.13	≤-20.85	PASS
		2462	Reference	7.45	7.45	---	PASS
			30~1000	7.45	-69.66	≤-22.55	PASS
			1000~26500	7.45	-41.5	≤-22.55	PASS
11G	Ant1	2412	Reference	5.42	5.42	---	PASS
			30~1000	5.42	-70.2	≤-24.58	PASS
			1000~26500	5.42	-44.32	≤-24.58	PASS
		2437	Reference	5.65	5.65	---	PASS
			30~1000	5.65	-69.73	≤-24.35	PASS
			1000~26500	5.65	-43.73	≤-24.35	PASS
		2462	Reference	6.13	6.13	---	PASS
			30~1000	6.13	-69.3	≤-23.87	PASS
			1000~26500	6.13	-44.71	≤-23.87	PASS
11N20	Ant1	2412	Reference	2.61	2.61	---	PASS
			30~1000	2.61	-69.56	≤-27.39	PASS
			1000~26500	2.61	-44.37	≤-27.39	PASS
		2437	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-70.13	≤-25.94	PASS
			1000~26500	4.06	-43.71	≤-25.94	PASS
		2462	Reference	4.19	4.19	---	PASS
			30~1000	4.19	-69.59	≤-25.81	PASS
			1000~26500	4.19	-44.39	≤-25.81	PASS
11N40	Ant1	2422	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-69.82	≤-26.59	PASS
			1000~26500	3.41	-44.12	≤-26.59	PASS
		2437	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-70.02	≤-27.67	PASS
			1000~26500	2.33	-44.81	≤-27.67	PASS
		2452	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-68.89	≤-29.73	PASS