

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Android Head Unit with Floating Screen

Test Model: RVHU-130-ADF

Environmental Conditions

Temperature:	26.3°C
Relative Humidity:	54.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

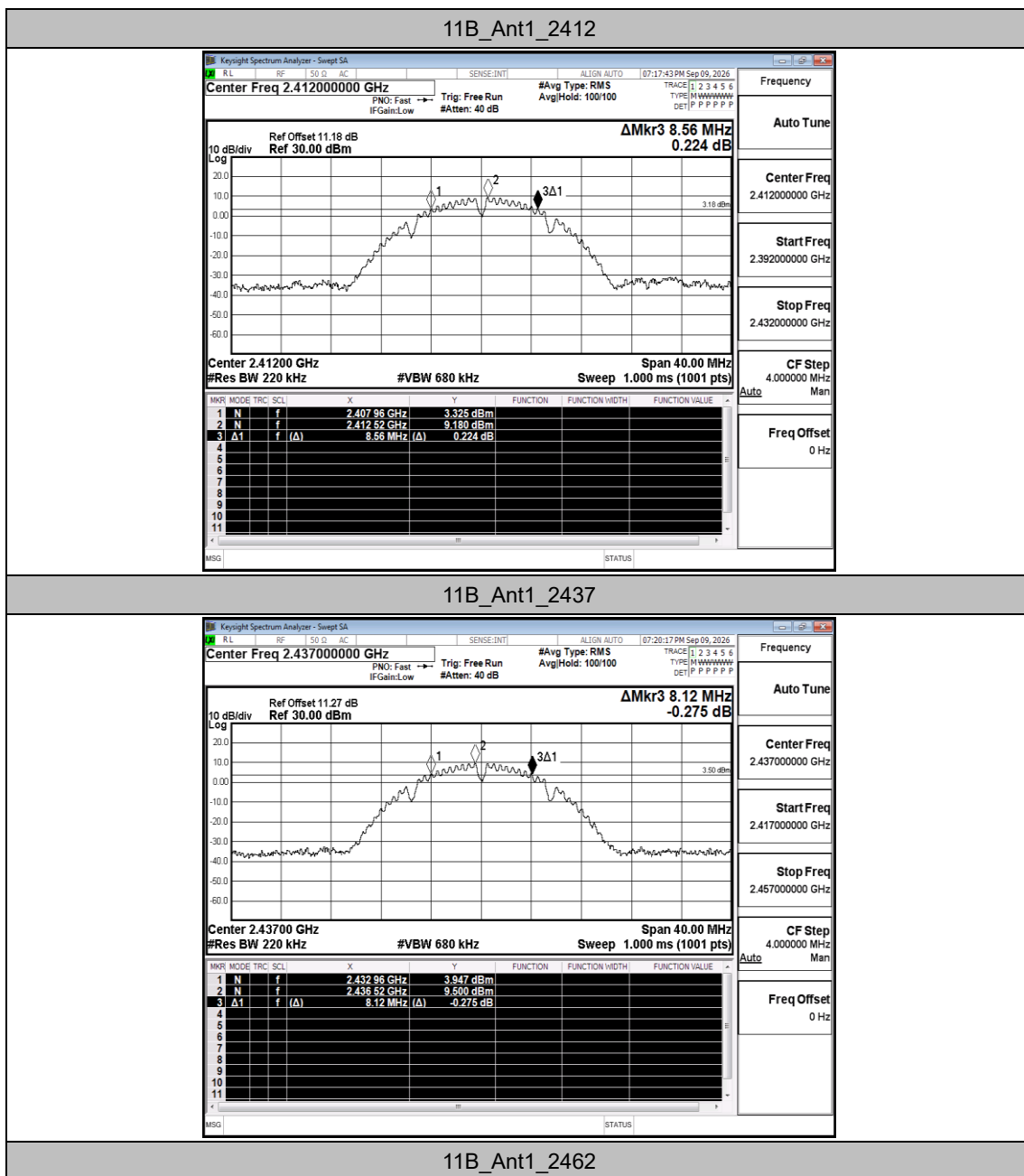
C.1 DTS Bandwidth

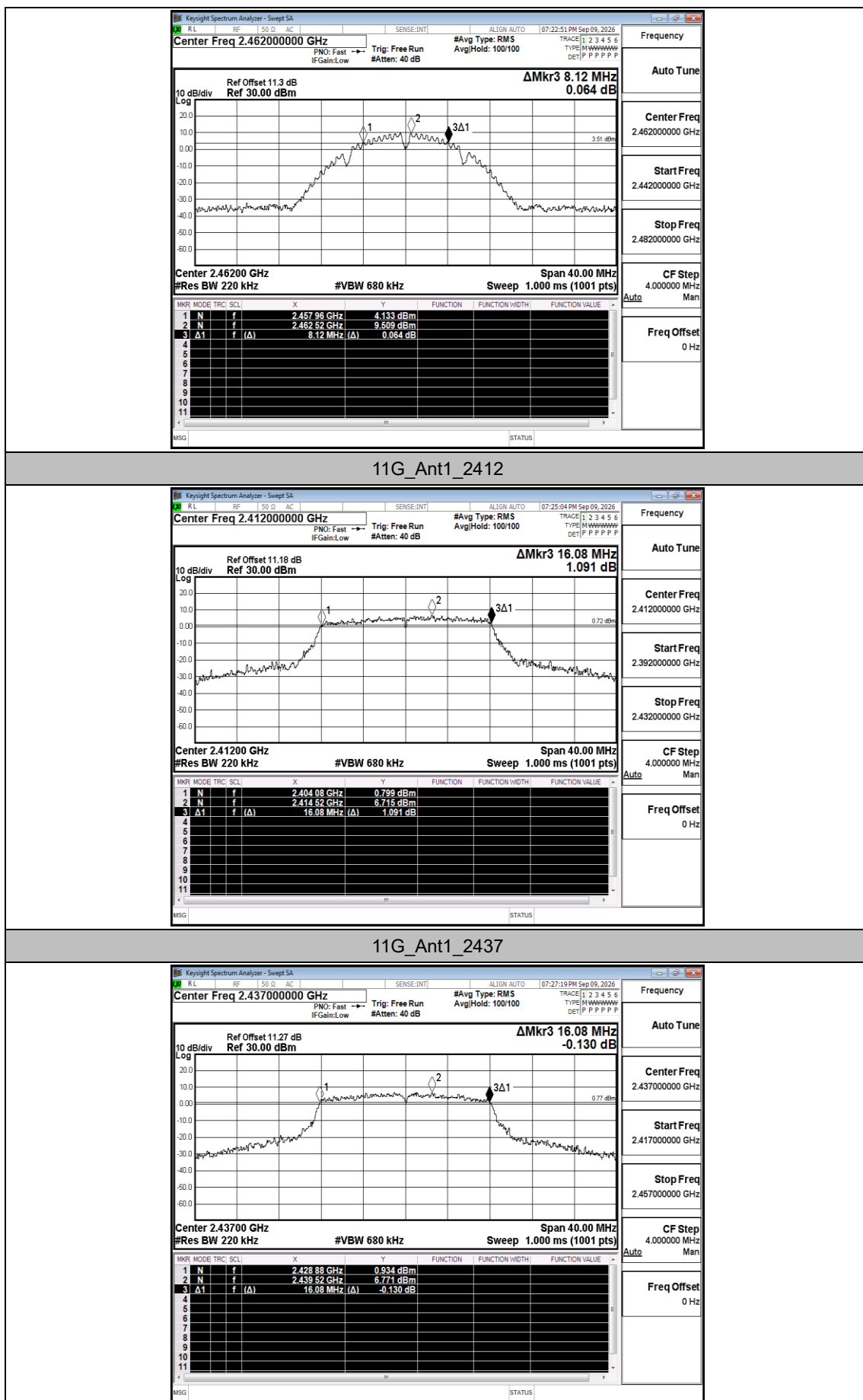
Test Result

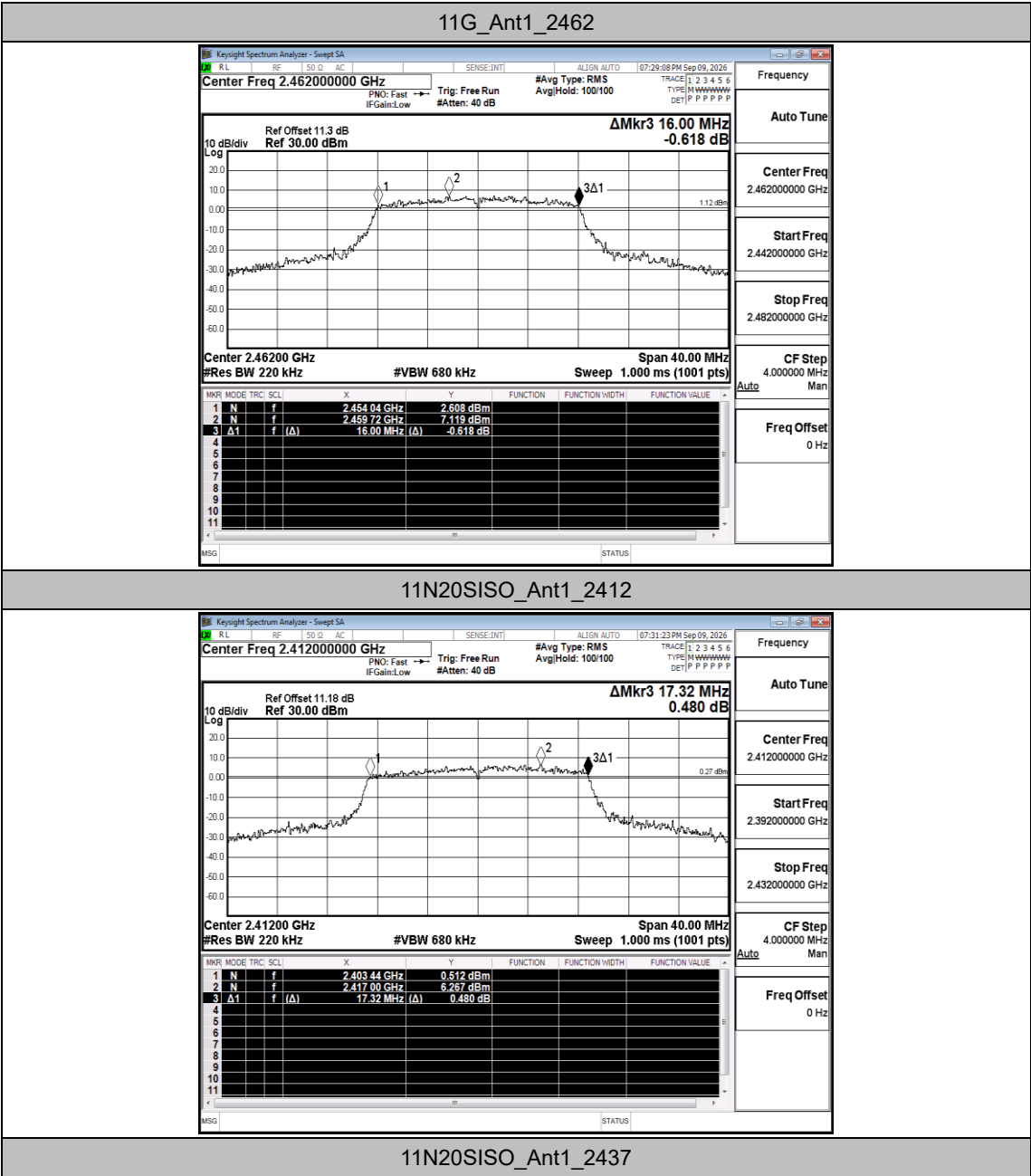
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	8.120	2432.960	2441.080	0.5	PASS
		2462	8.120	2457.960	2466.080	0.5	PASS
11G	Ant1	2412	16.080	2404.080	2420.160	0.5	PASS
		2437	16.080	2428.880	2444.960	0.5	PASS
		2462	16.000	2454.040	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
		2437	16.960	2428.480	2445.440	0.5	PASS
		2462	17.160	2453.480	2470.640	0.5	PASS
11N40SISO	Ant1	2422	30.480	2409.600	2440.080	0.5	PASS
		2437	33.920	2421.000	2454.920	0.5	PASS
		2452	36.160	2433.840	2470.000	0.5	PASS

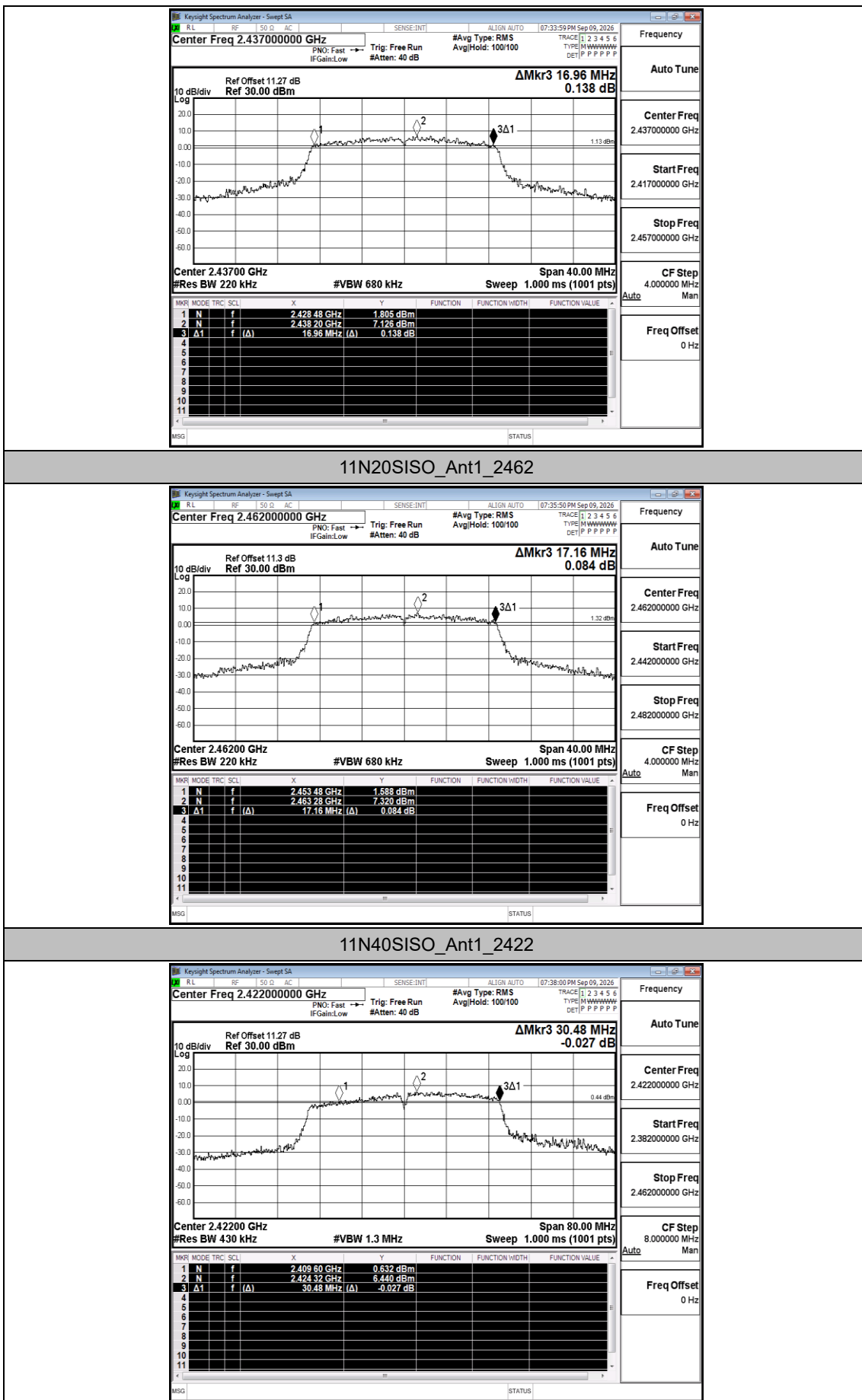
Note: offset=System attenuation +cabal loss

Test Graphs

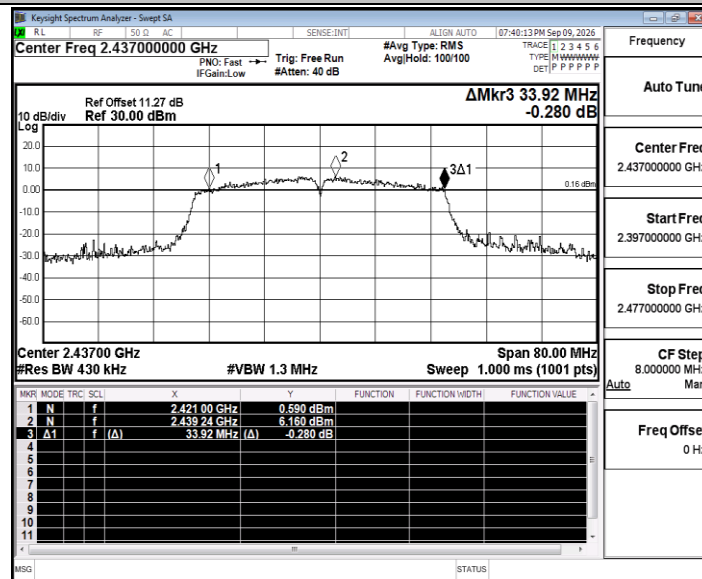




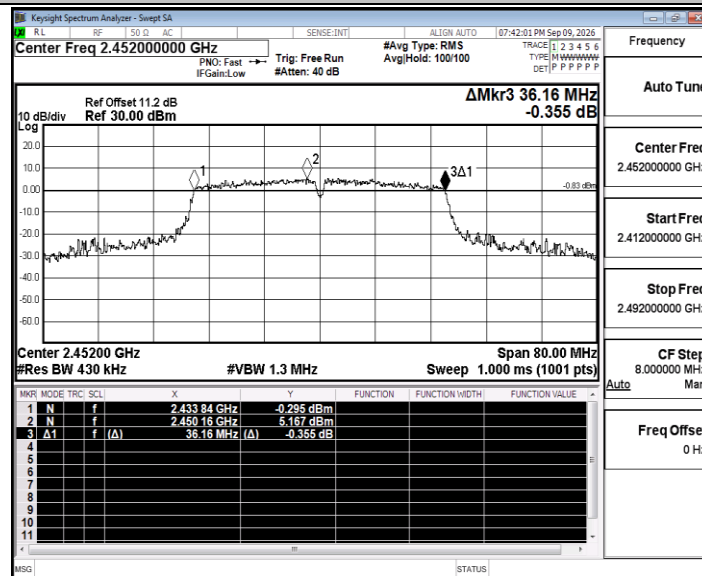




11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



C.2 Maximum Average 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	15.48	0.02	15.50	≤30.00	PASS
		2437	16.55	0.02	16.57	≤30.00	PASS
		2462	16.44	0.02	16.46	≤30.00	PASS
11G	Ant1	2412	16.06	0.12	16.18	≤30.00	PASS
		2437	16.34	0.15	16.49	≤30.00	PASS
		2462	16.10	0.12	16.22	≤30.00	PASS
11N20SISO	Ant1	2412	16.06	0.13	16.19	≤30.00	PASS
		2437	16.19	0.13	16.32	≤30.00	PASS
		2462	15.94	0.16	16.10	≤30.00	PASS
11N40SISO	Ant1	2422	15.39	0.26	15.65	≤30.00	PASS
		2437	15.51	0.32	15.83	≤30.00	PASS
		2452	15.41	0.26	15.67	≤30.00	PASS

Note: offset=System attenuation +cable loss

C.3 Maximum power spectral density

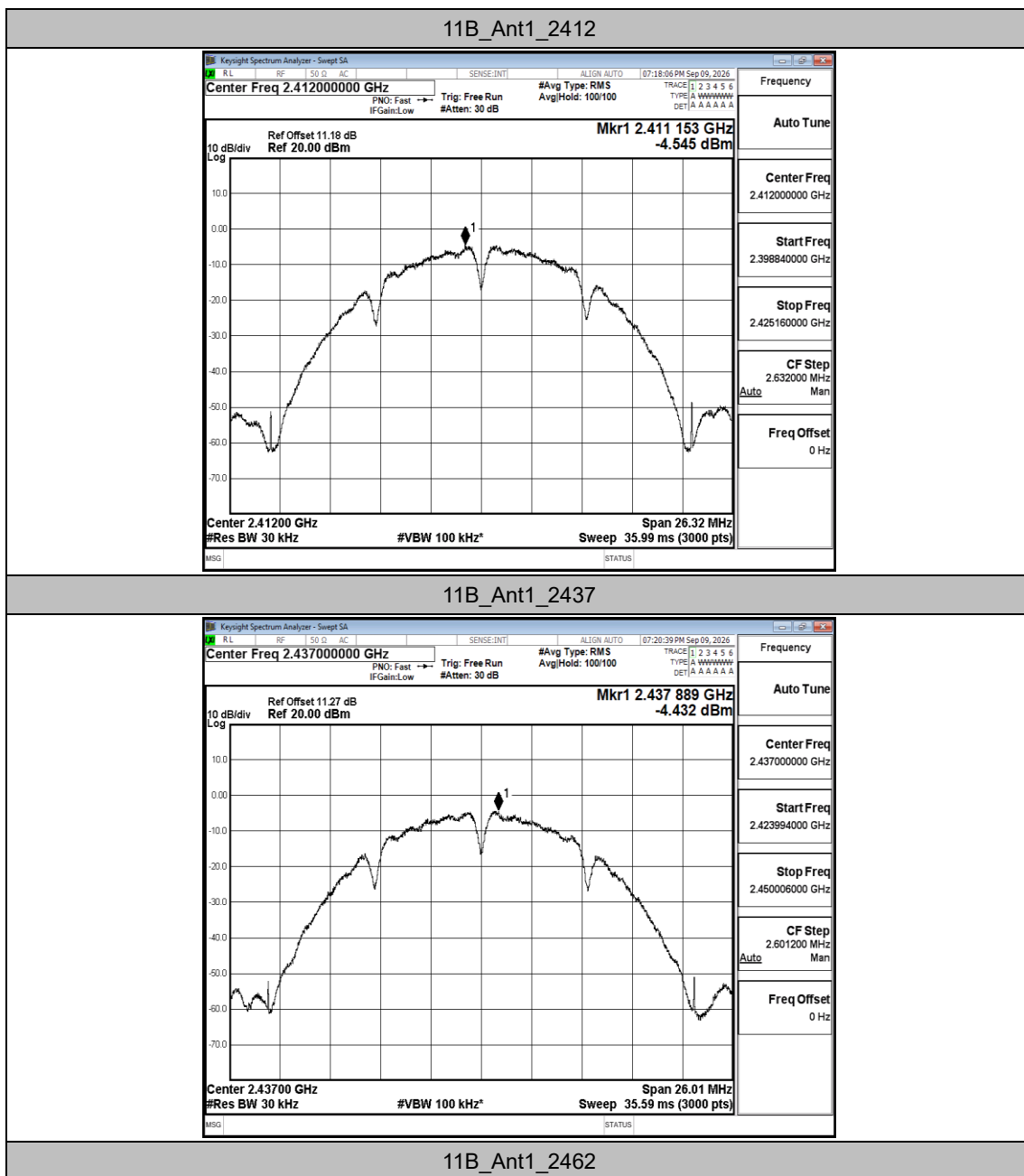
Test Result

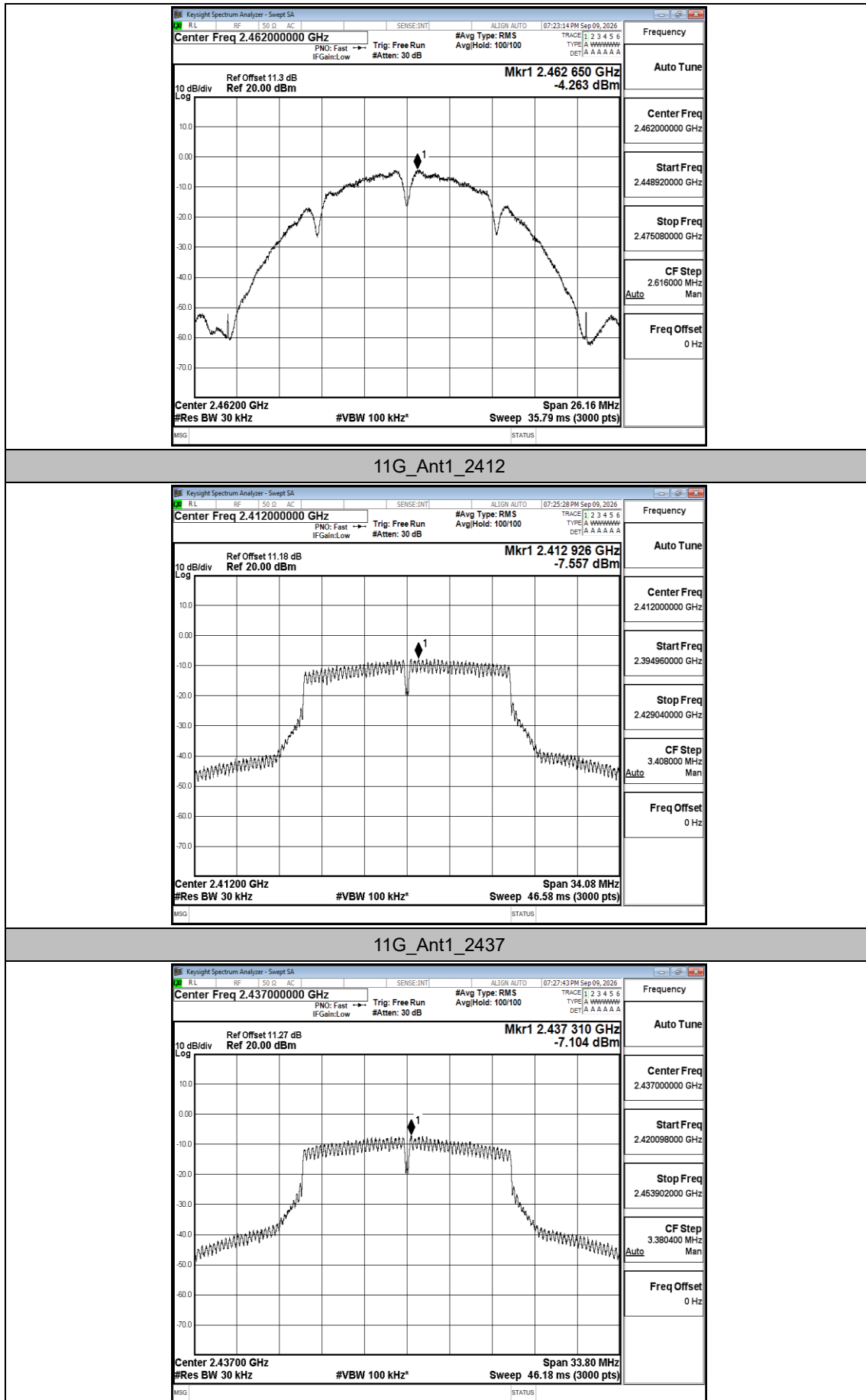
TestMode	Antenna	Frequency [MHz]	Measured PSD [dBm/30kHz]	DC Factor [dB]	Result[dBm/30kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.55	0.02	-4.53	≤8.00	PASS
		2437	-4.43	0.02	-4.41	≤8.00	PASS
		2462	-4.26	0.02	-4.24	≤8.00	PASS
11G	Ant1	2412	-7.56	0.12	-7.44	≤8.00	PASS
		2437	-7.1	0.15	-6.95	≤8.00	PASS
		2462	-7.18	0.12	-7.06	≤8.00	PASS
11N20SISO	Ant1	2412	-7.65	0.13	-7.52	≤8.00	PASS
		2437	-7.1	0.13	-6.97	≤8.00	PASS
		2462	-7.45	0.16	-7.29	≤8.00	PASS
11N40SISO	Ant1	2422	-10.85	0.26	-10.59	≤8.00	PASS
		2437	-10.44	0.32	-10.12	≤8.00	PASS
		2452	-11.48	0.26	-11.22	≤8.00	PASS

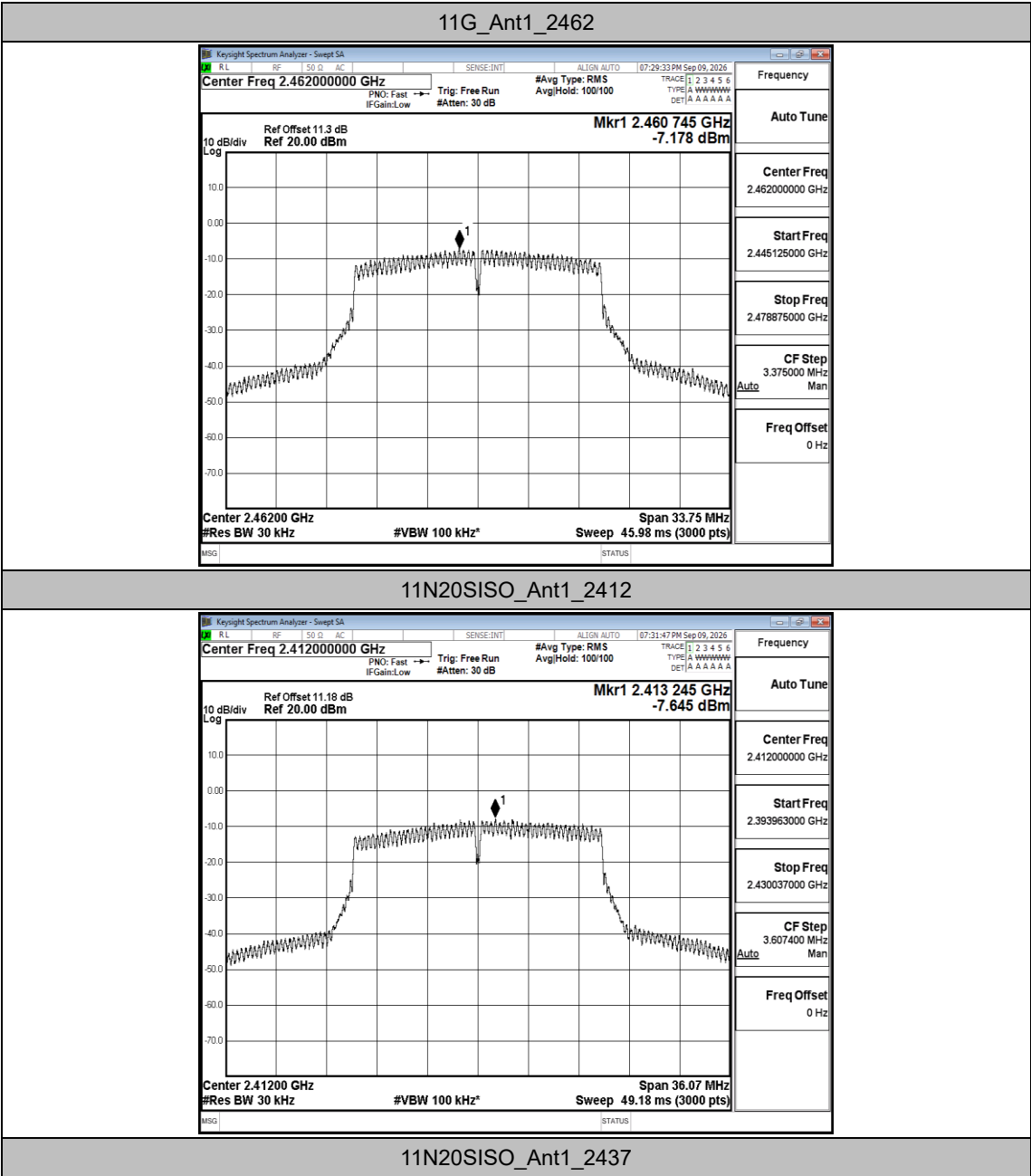
Note: offset=System attenuation +cable loss

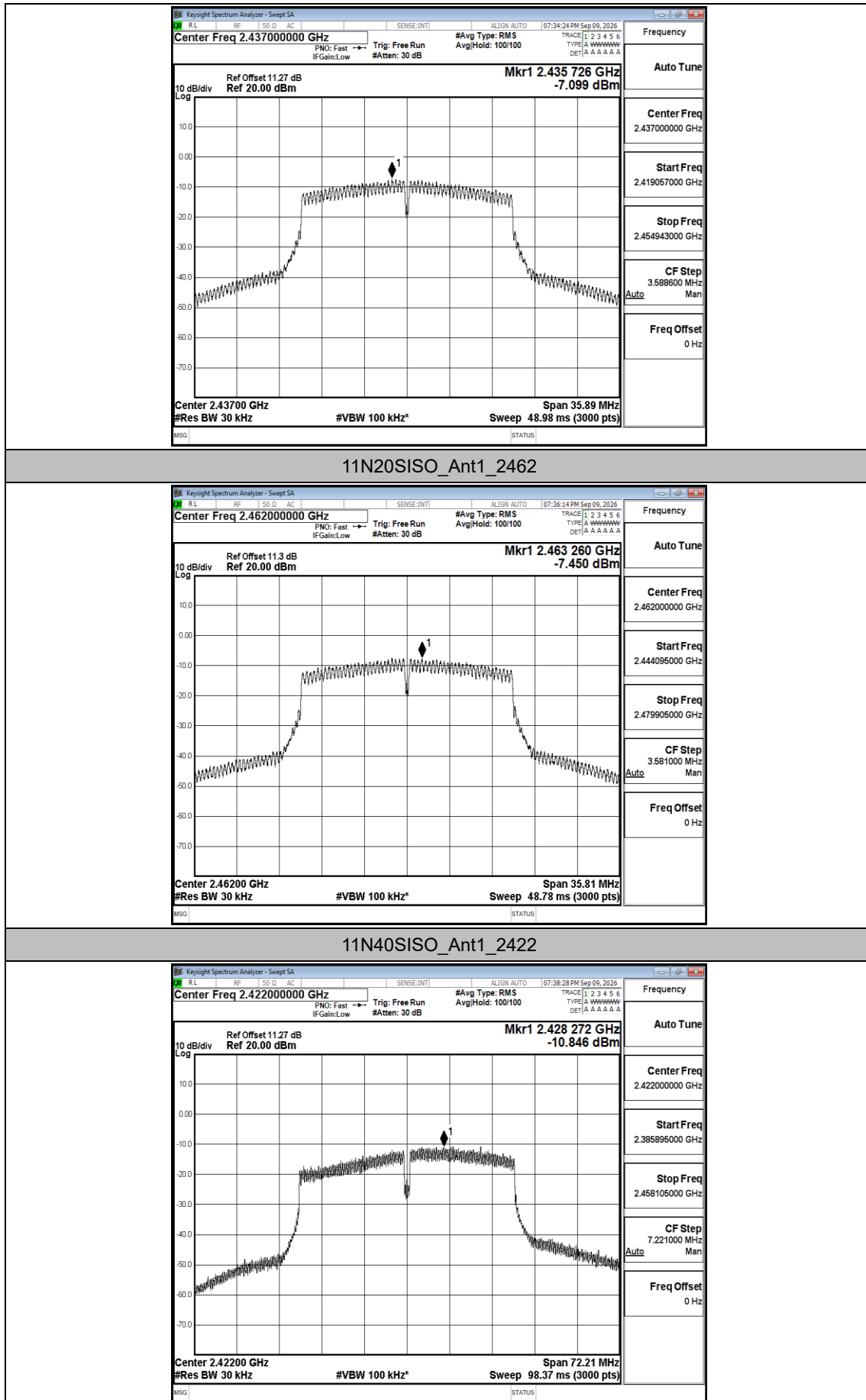
Result[dBm/3kHz]=Result[dBm/30kHz]+10*Log(3/30)

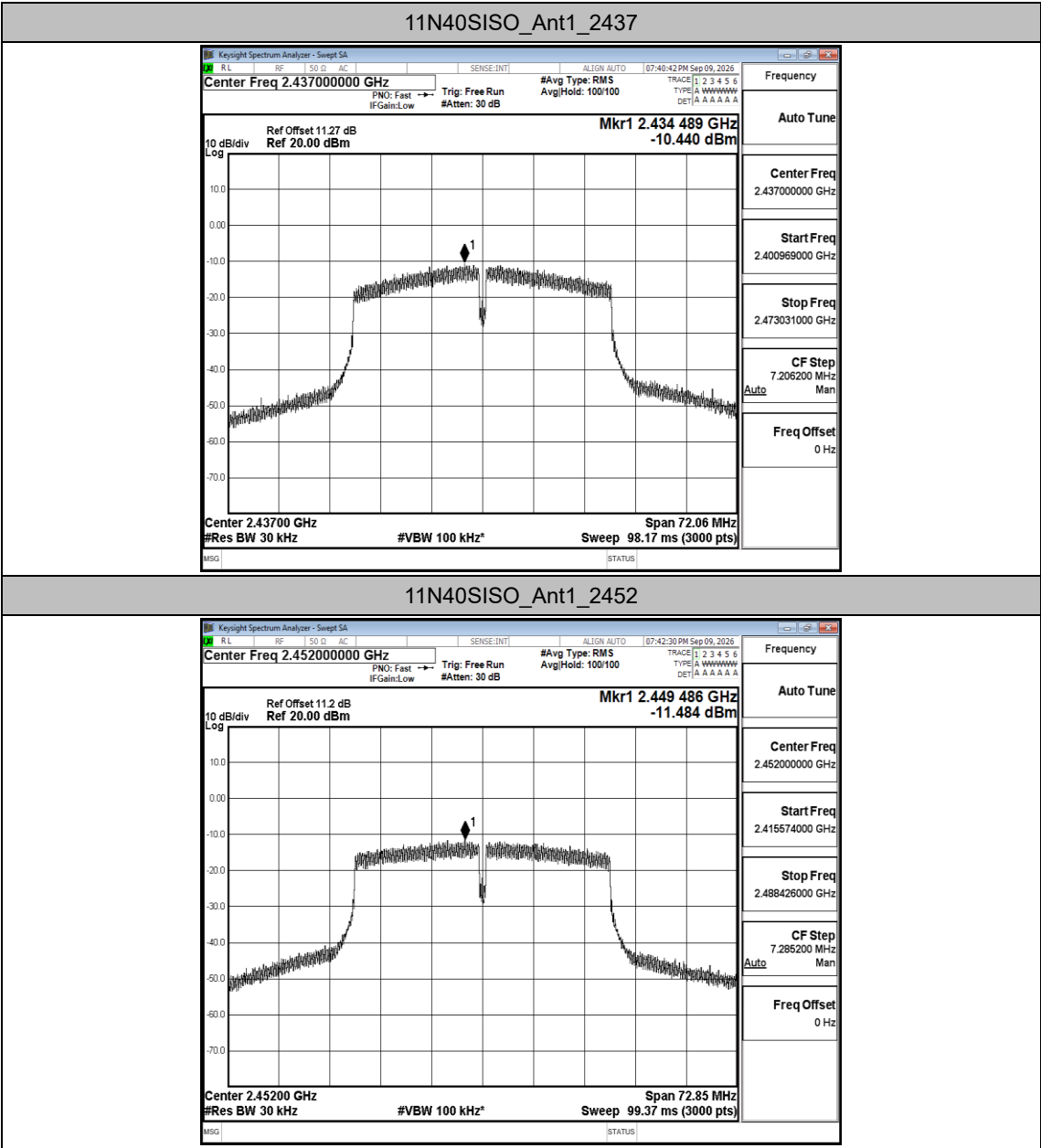
Test Graphs











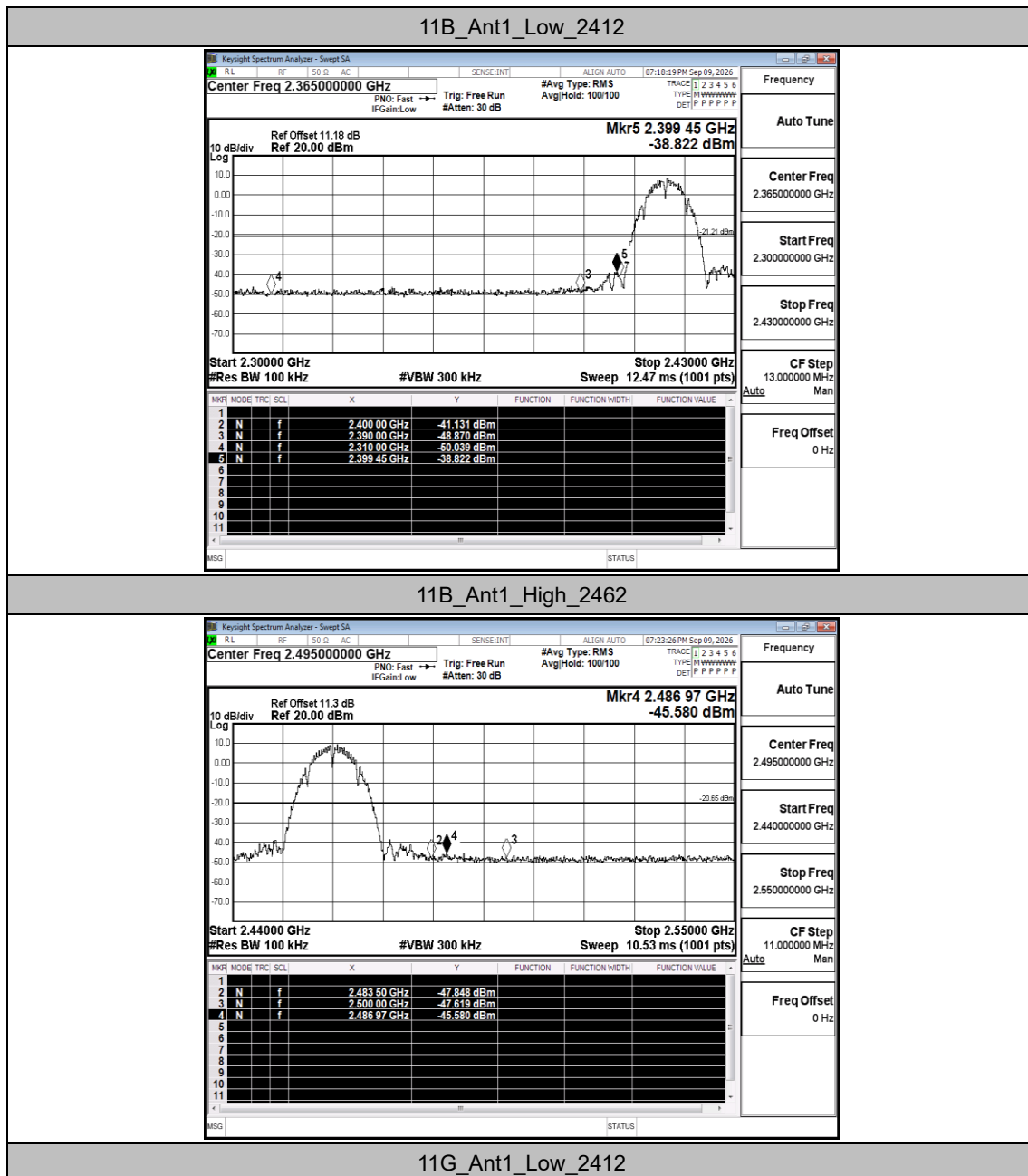
C.4 Band edge measurements

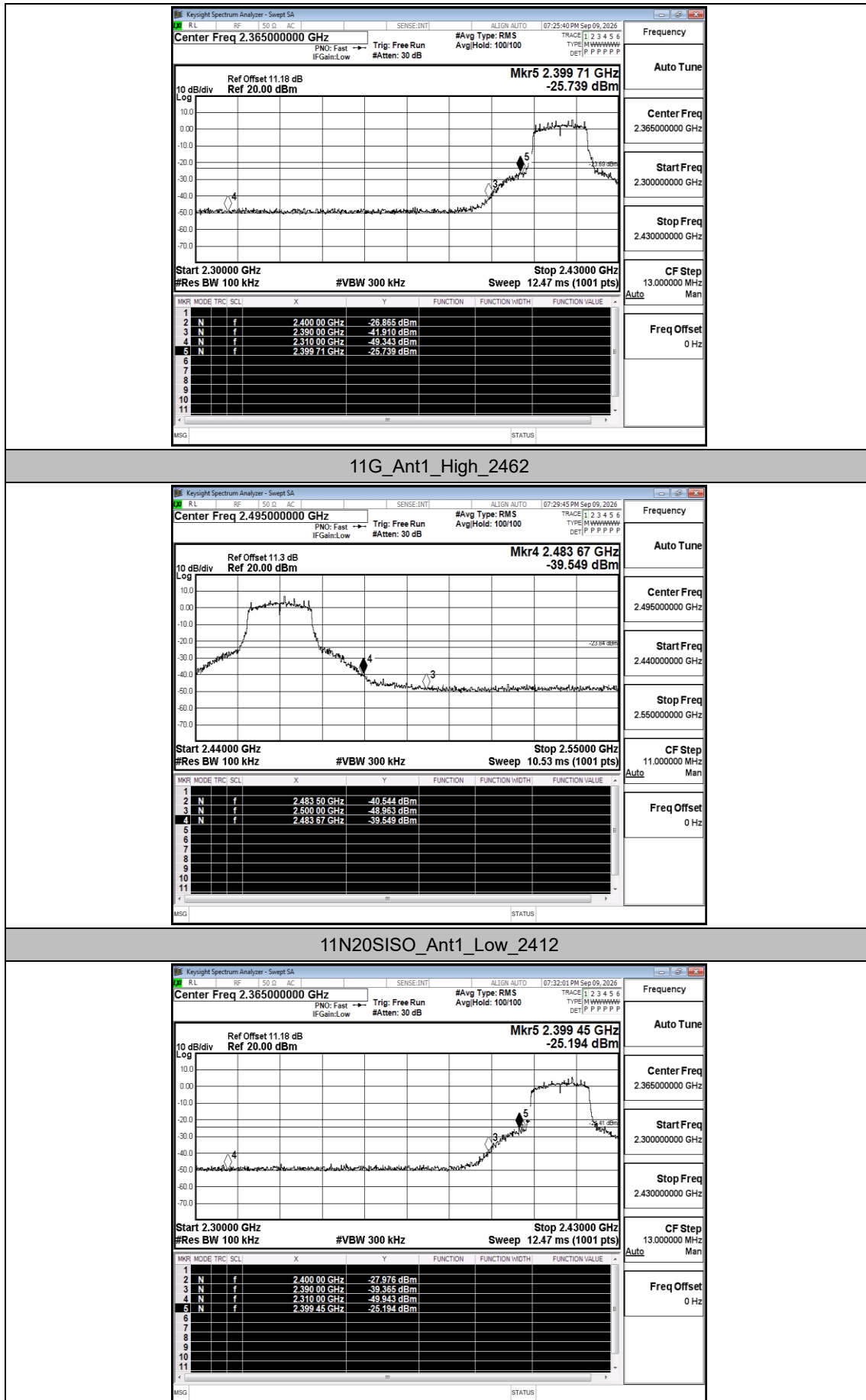
Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.79	-38.82	≤-21.21	PASS
		High	2462	9.35	-45.58	≤-20.65	PASS
11G	Ant1	Low	2412	6.31	-25.74	≤-23.69	PASS
		High	2462	6.16	-39.55	≤-23.84	PASS
11N20SISO	Ant1	Low	2412	5.59	-25.19	≤-24.41	PASS
		High	2462	5.48	-37.45	≤-24.52	PASS
11N40SISO	Ant1	Low	2422	3.15	-31.52	≤-26.85	PASS
		High	2452	2.21	-30.86	≤-27.79	PASS

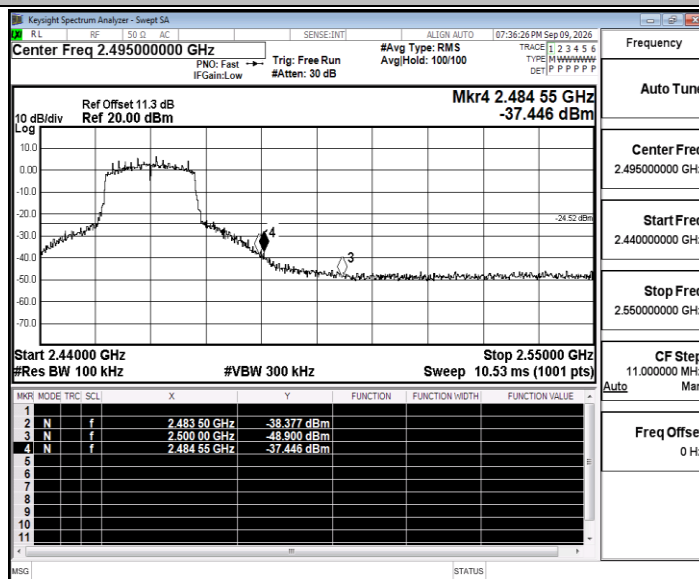
Note: offset=System attenuation +cabel loss

Test Graphs

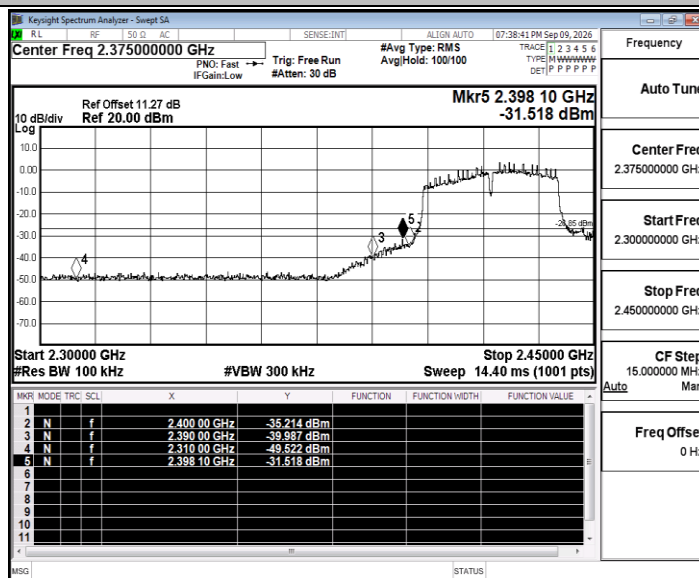




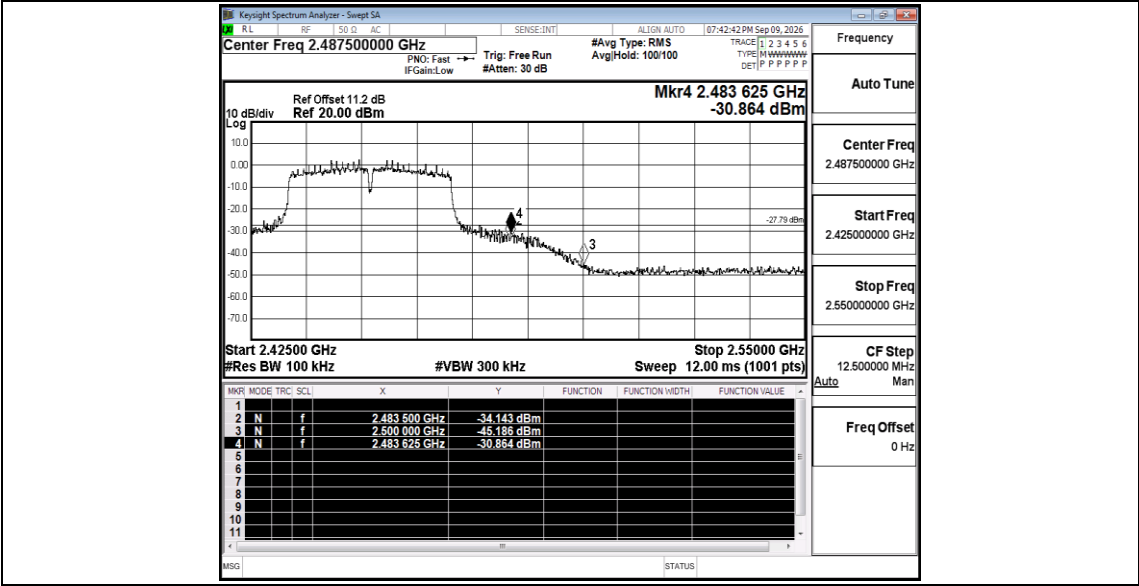
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



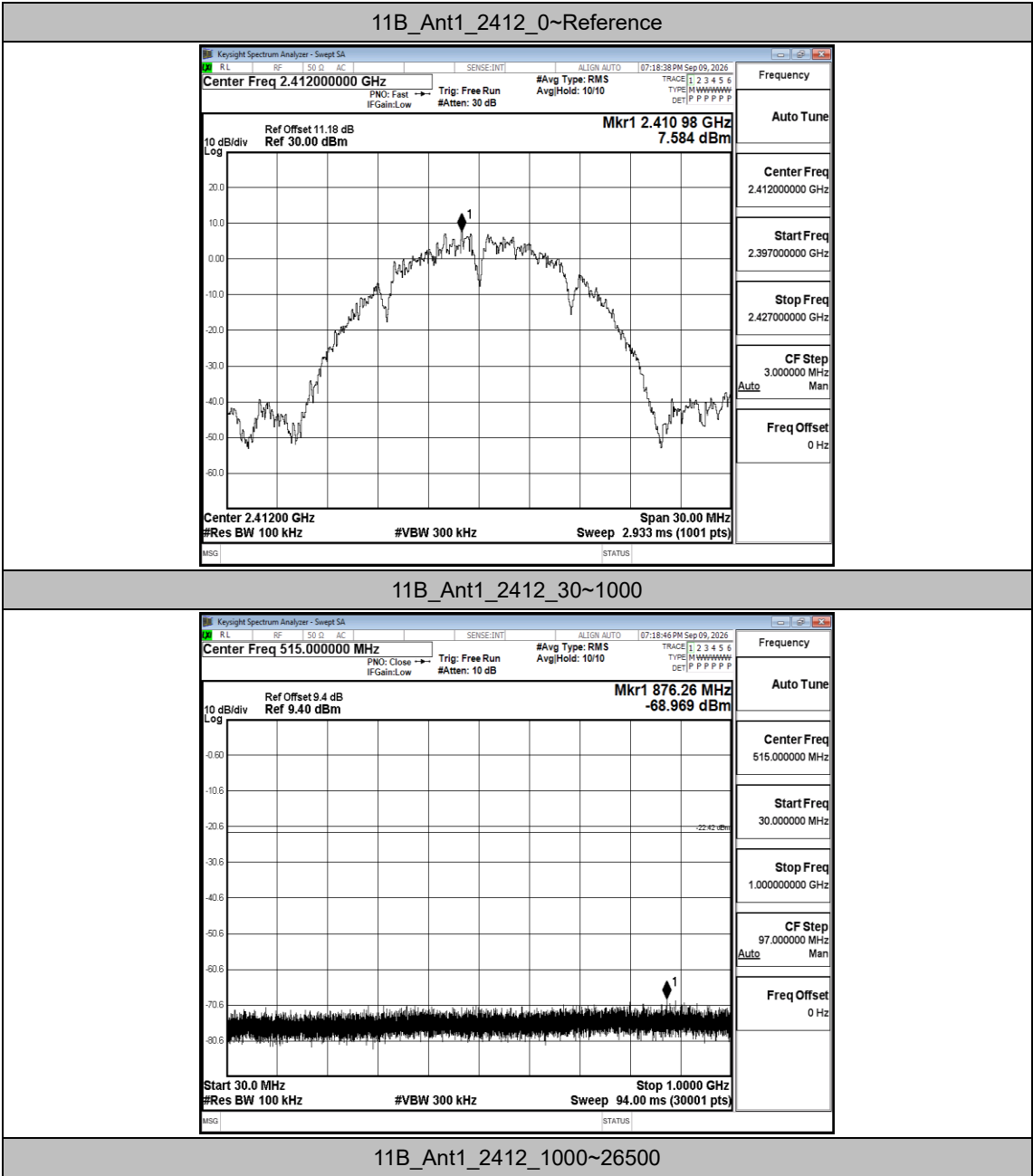
C.5 Conducted Spurious Emission

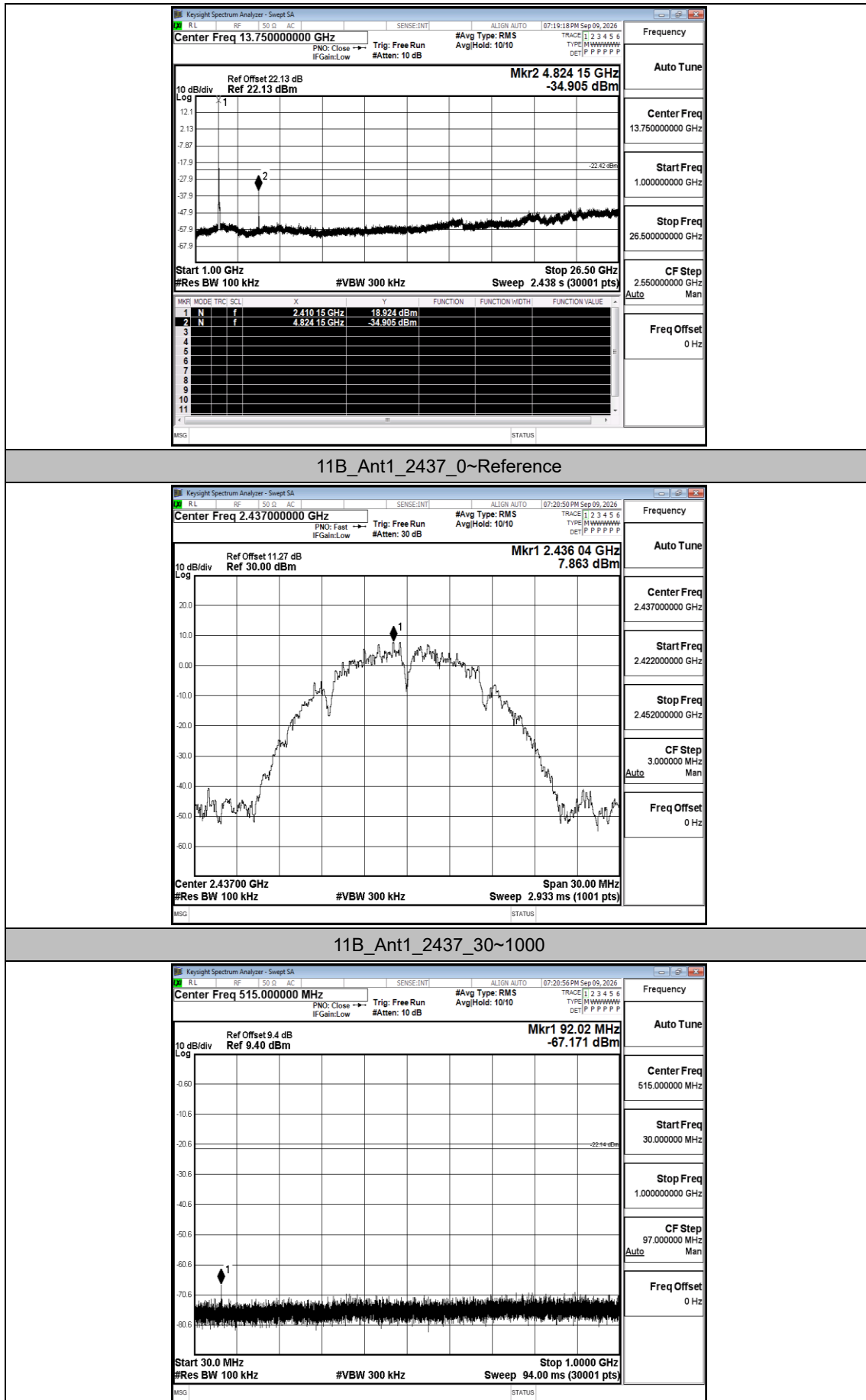
Test Result

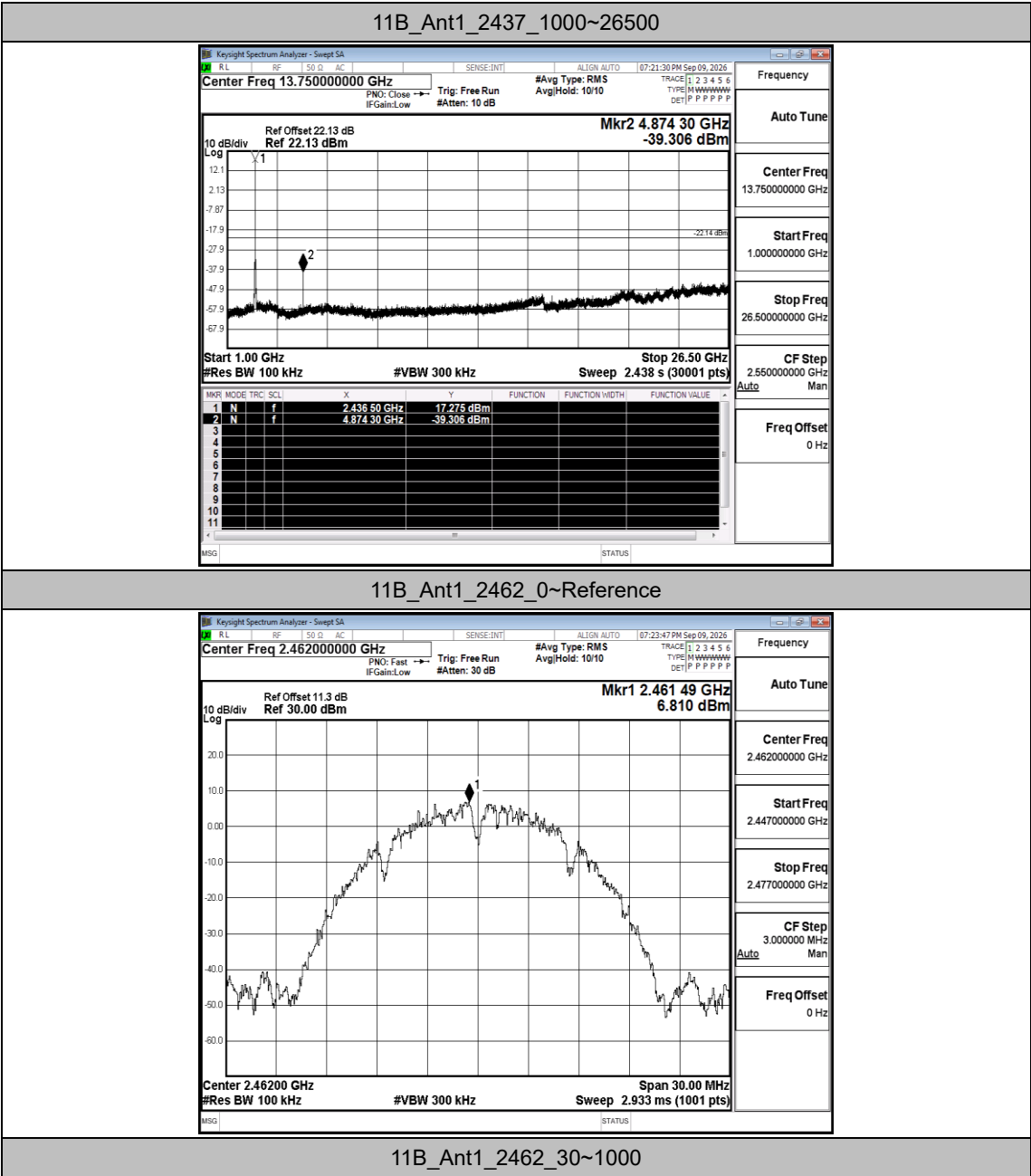
TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.58	7.58	---	PASS
			30~1000	7.58	-68.97	≤-22.42	PASS
			1000~26500	7.58	-34.91	≤-22.42	PASS
		2437	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-67.17	≤-22.14	PASS
			1000~26500	7.86	-39.31	≤-22.14	PASS
		2462	Reference	6.81	6.81	---	PASS
			30~1000	6.81	-69.57	≤-23.19	PASS
			1000~26500	6.81	-39.29	≤-23.19	PASS
11G	Ant1	2412	Reference	4.06	4.06	---	PASS
			30~1000	4.06	-69.34	≤-25.94	PASS
			1000~26500	4.06	-43.57	≤-25.94	PASS
		2437	Reference	3.14	3.14	---	PASS
			30~1000	3.14	-69.65	≤-26.86	PASS
			1000~26500	3.14	-44.44	≤-26.86	PASS
		2462	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-68.54	≤-27.37	PASS
			1000~26500	2.63	-44.94	≤-27.37	PASS
11N20SISO	Ant1	2412	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-69.59	≤-26.32	PASS
			1000~26500	3.68	-44.04	≤-26.32	PASS
		2437	Reference	4.40	4.40	---	PASS
			30~1000	4.40	-69.19	≤-25.6	PASS
			1000~26500	4.40	-44.44	≤-25.6	PASS
		2462	Reference	3.65	3.65	---	PASS
			30~1000	3.65	-69.14	≤-26.35	PASS
			1000~26500	3.65	-44.38	≤-26.35	PASS
11N40SISO	Ant1	2422	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-69.66	≤-27.09	PASS
			1000~26500	2.91	-44.71	≤-27.09	PASS
		2437	Reference	2.90	2.90	---	PASS
			30~1000	2.90	-68.98	≤-27.1	PASS
			1000~26500	2.90	-44.33	≤-27.1	PASS
		2452	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-69.23	≤-27.82	PASS
			1000~26500	2.18	-44.58	≤-27.82	PASS

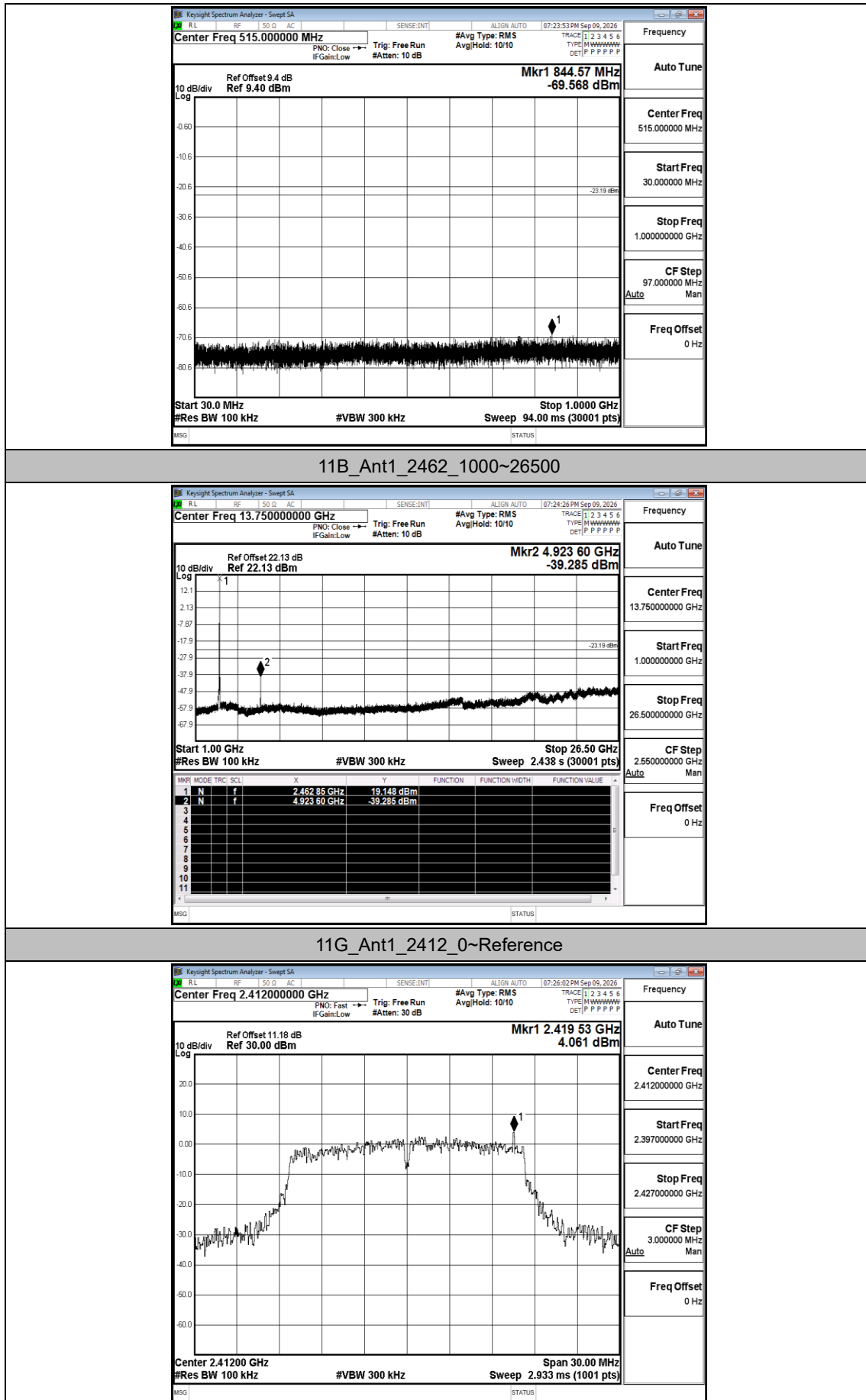
Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

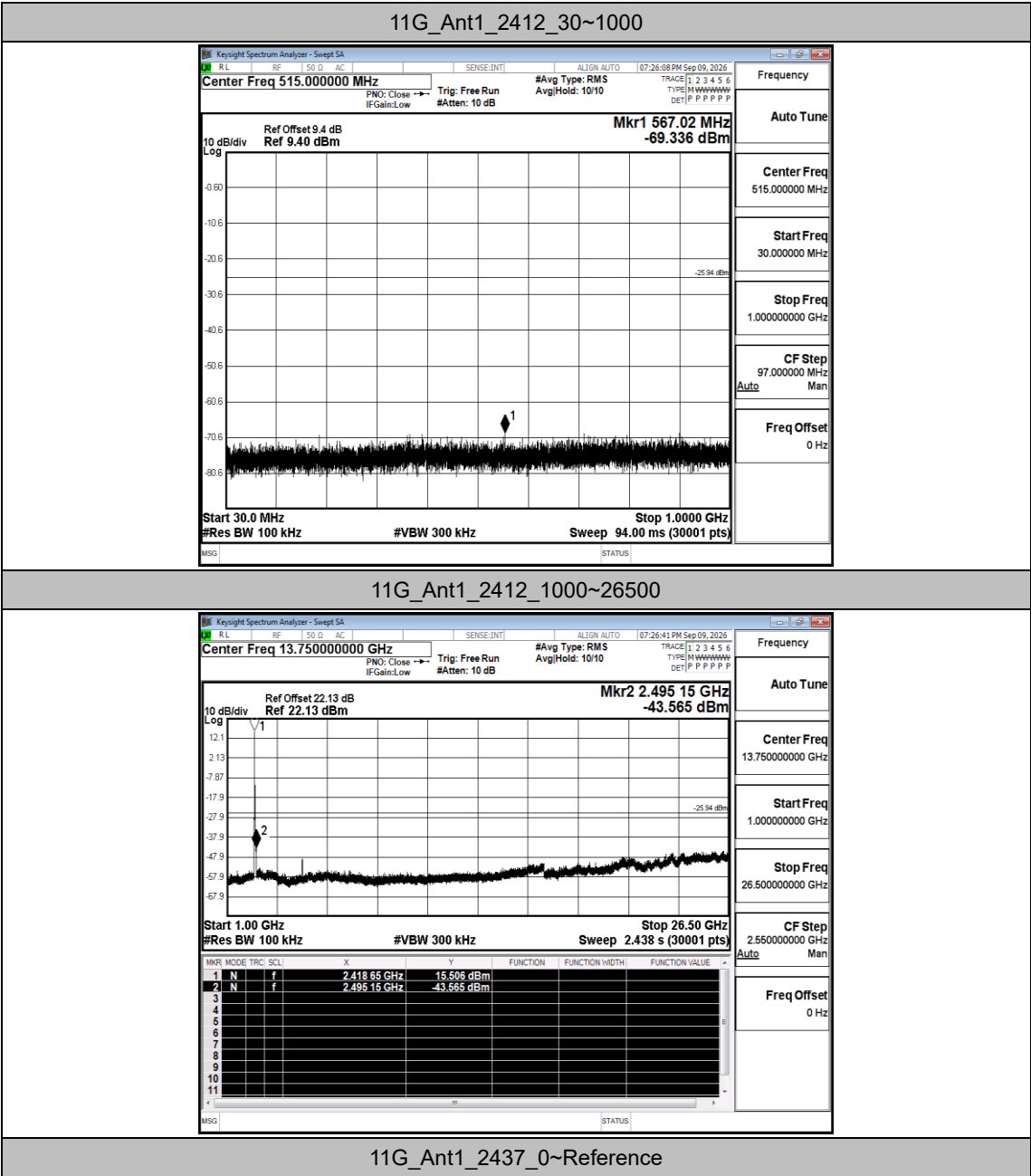
Test Graphs

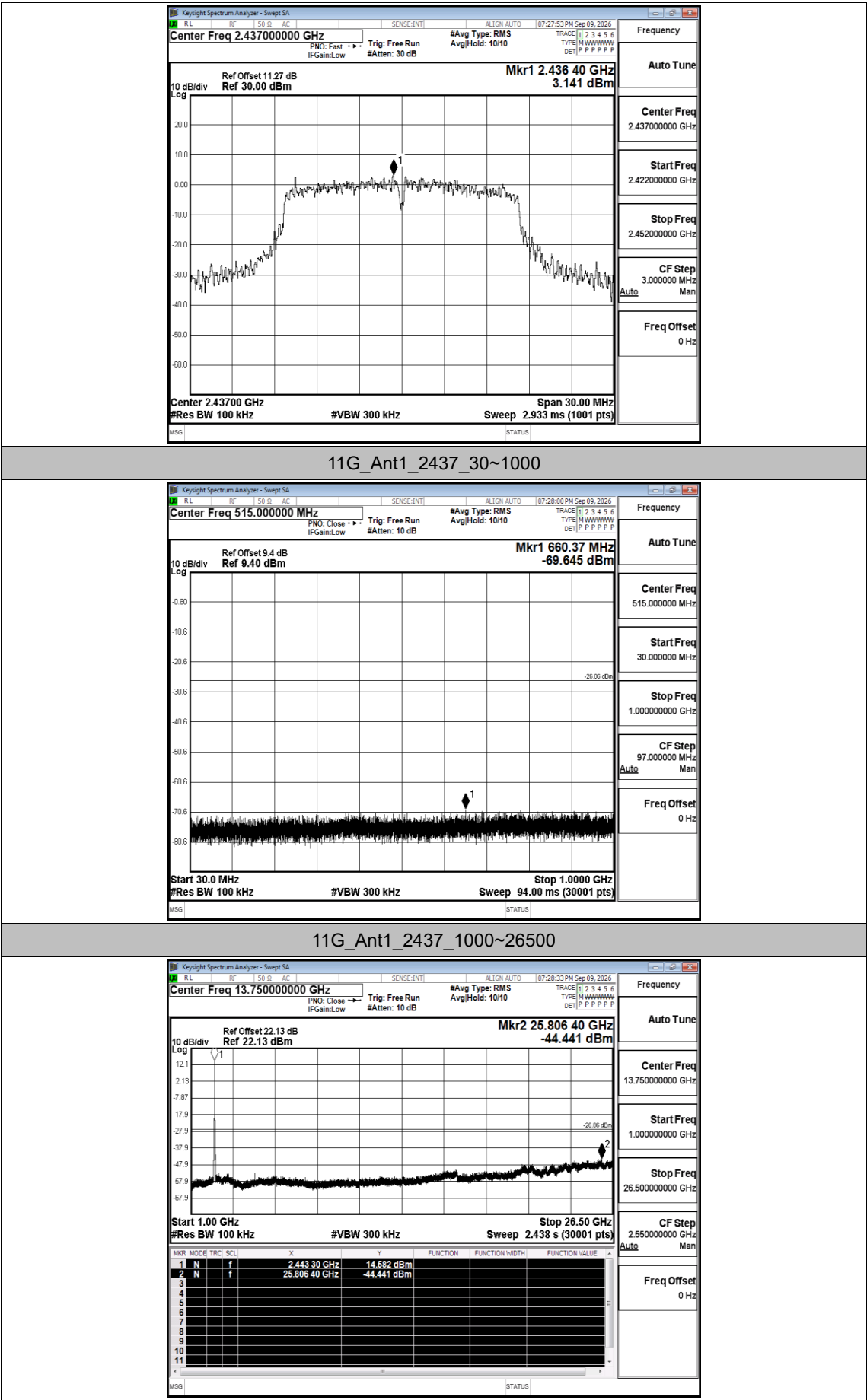


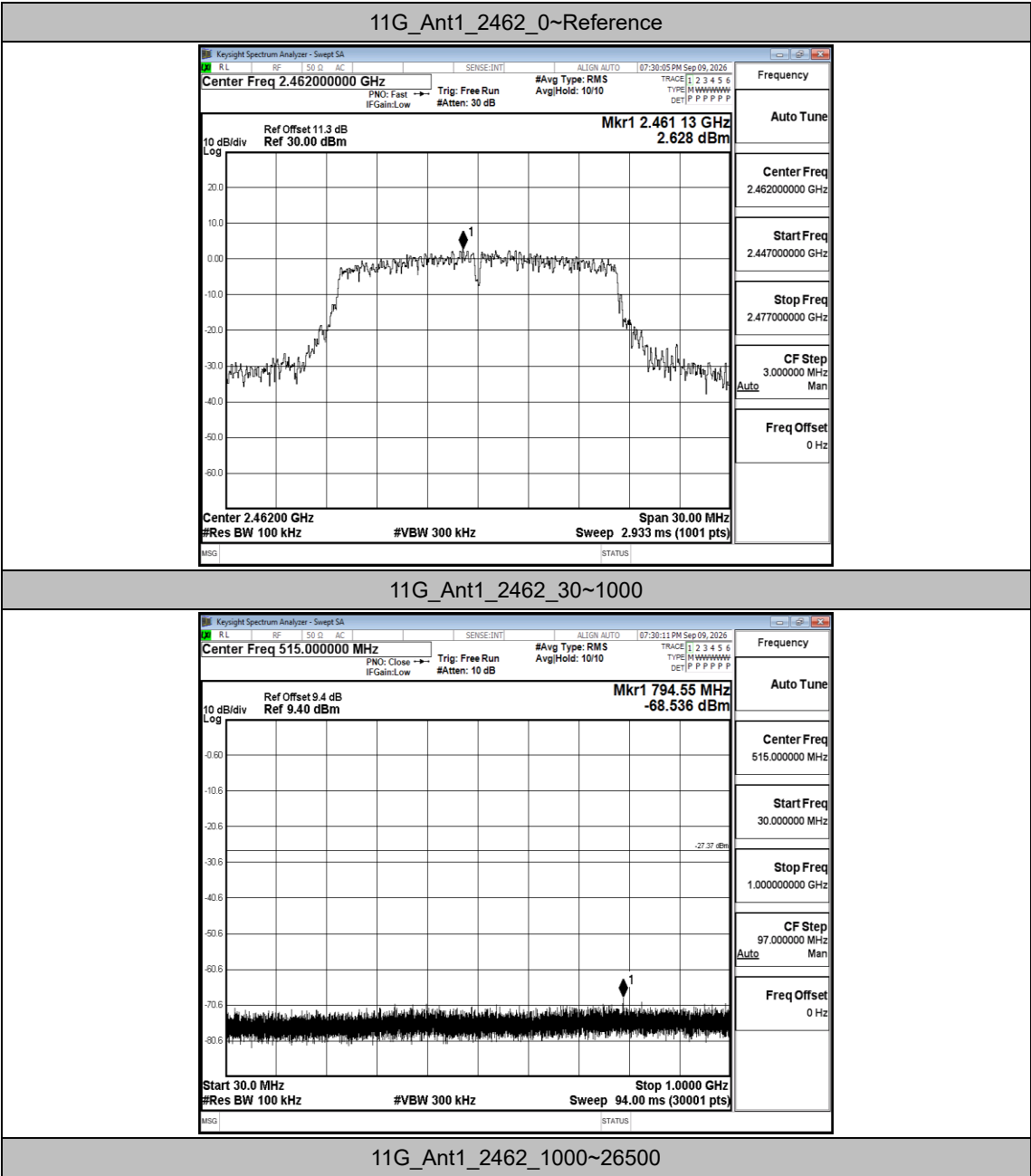


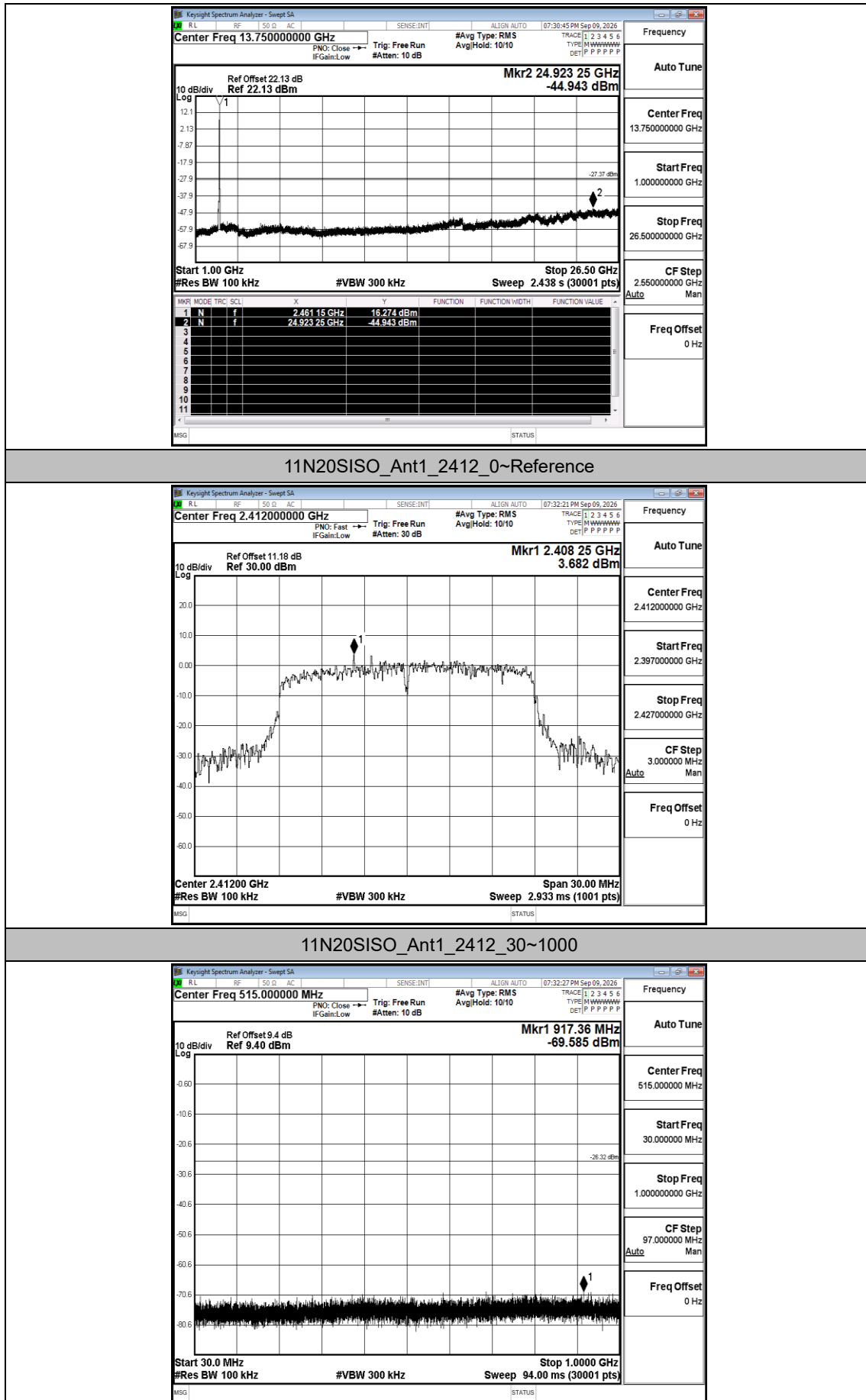




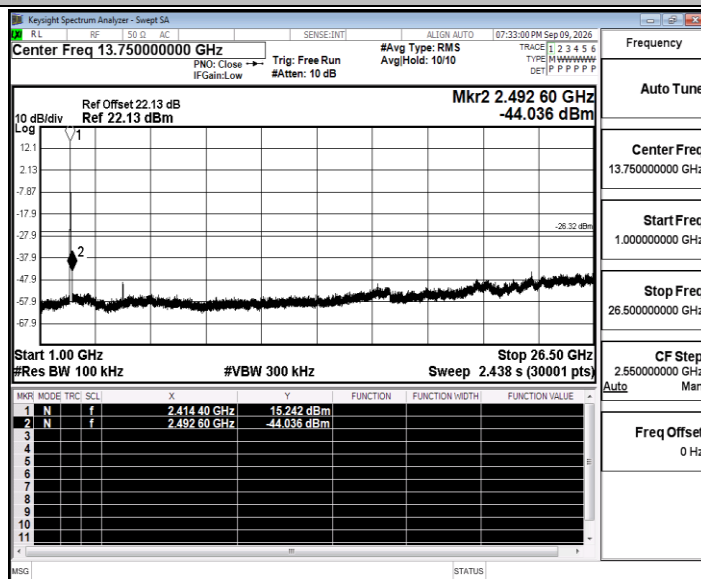




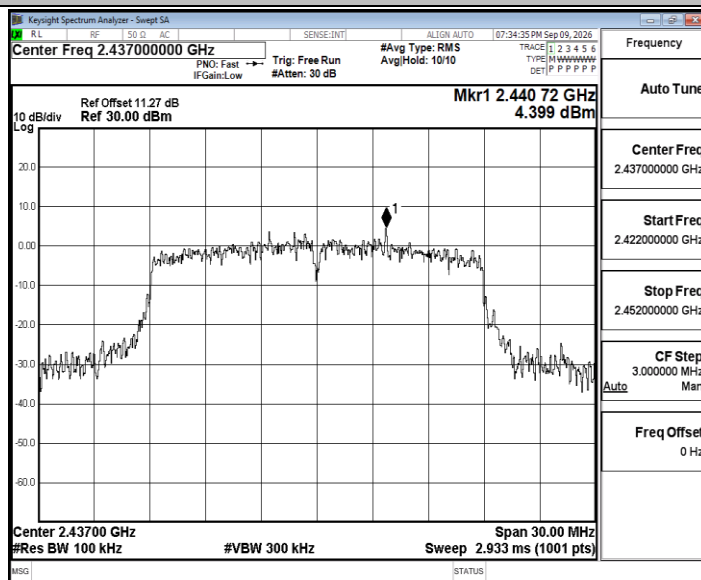




11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

