

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.580	2401.692	2402.272	0.5	PASS
		2440	0.632	2439.700	2440.332	0.5	PASS
		2480	0.628	2479.704	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.168	2401.436	2402.604	0.5	PASS
		2440	0.940	2439.512	2440.452	0.5	PASS
		2480	1.160	2479.436	2480.596	0.5	PASS

Test Graphs







Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0495	2401.4903	2402.5398	---	---
		2440	1.0568	2439.4839	2440.5407	---	---
		2480	1.0373	2479.4873	2480.5246	---	---
BLE_2M	Ant1	2402	2.0749	2400.9871	2403.0620	---	---
		2440	2.0577	2438.9842	2441.0419	---	---
		2480	2.0354	2478.9806	2481.0160	---	---

Test Graphs





BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



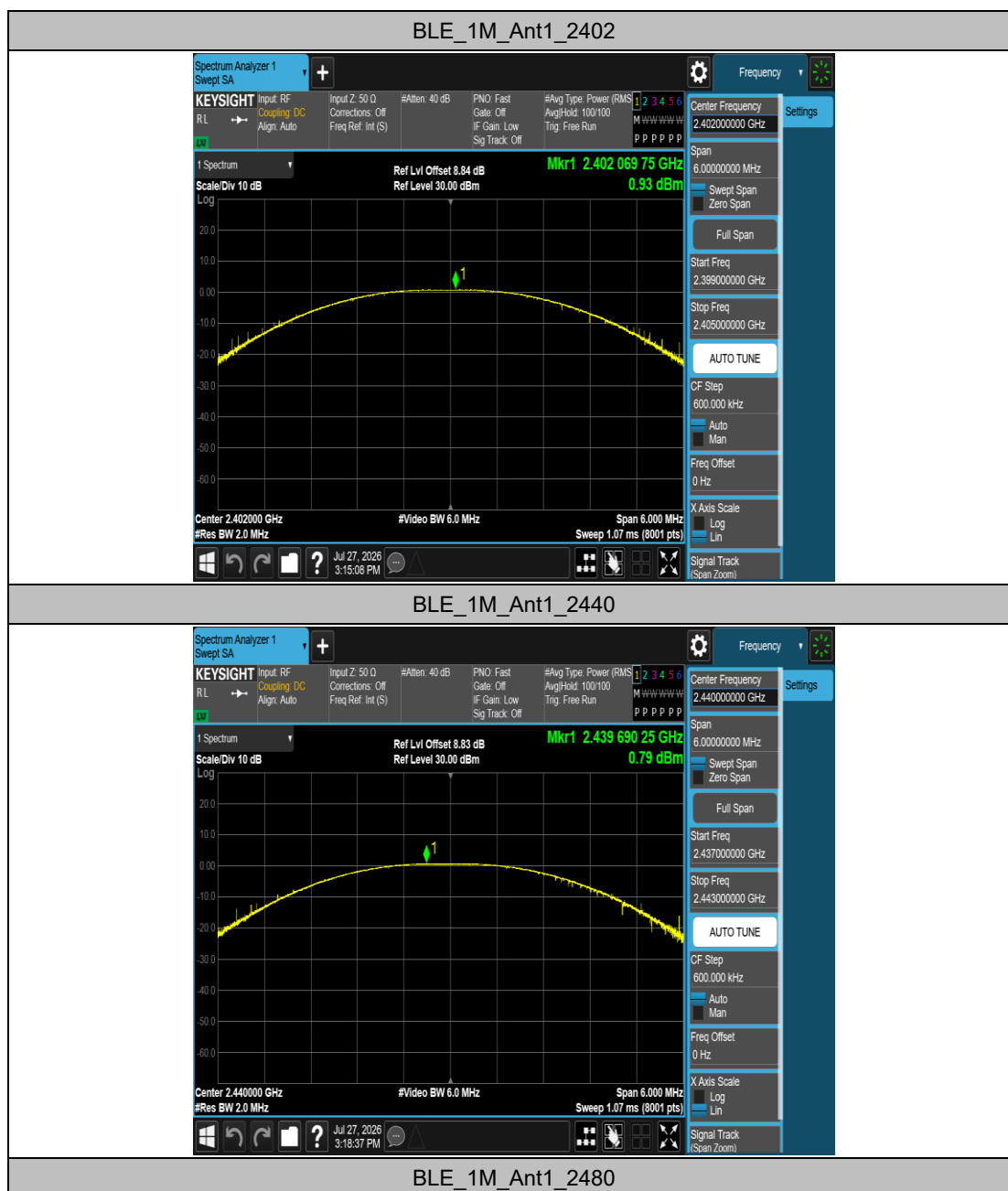


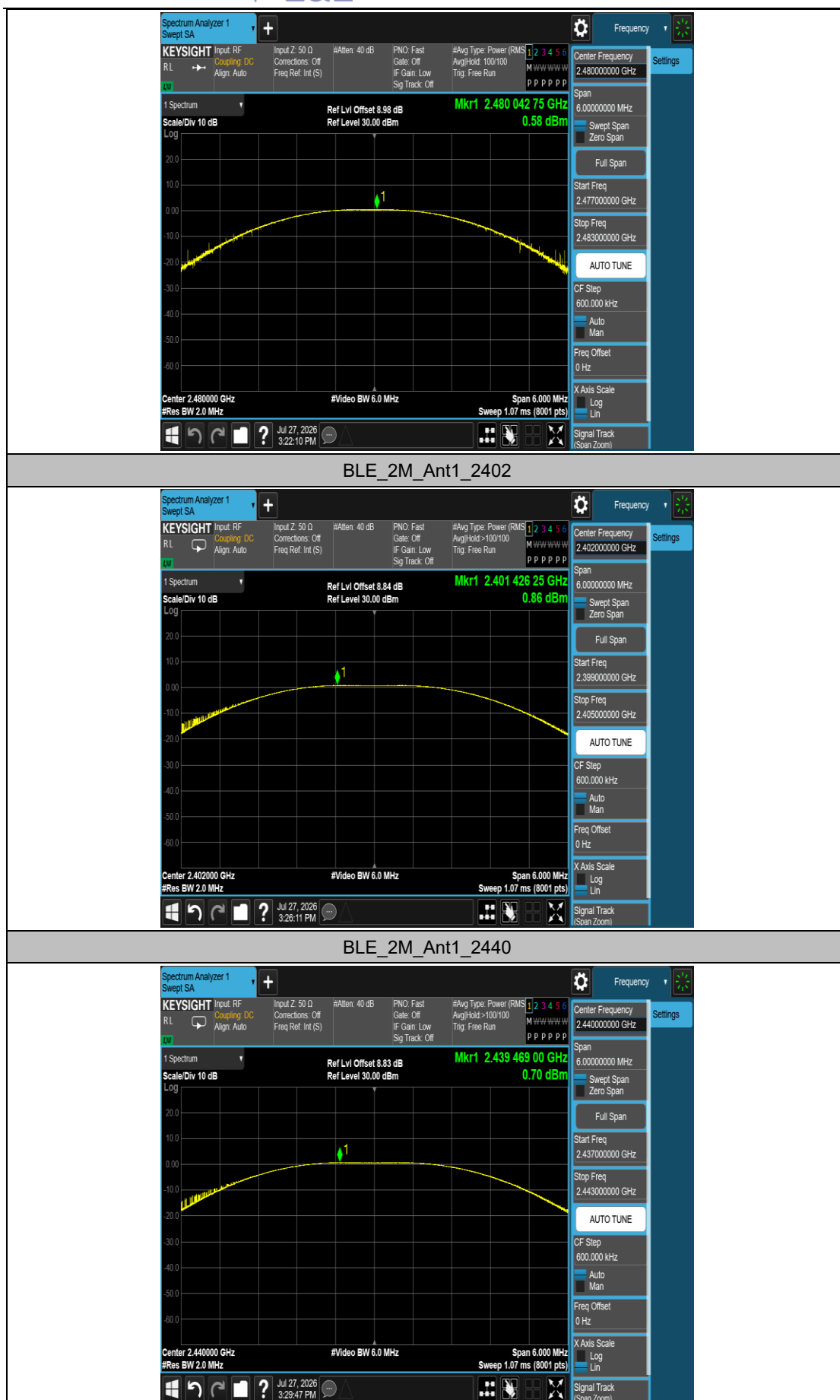
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.93	≤30	3.56	≤36	PASS
		2440	0.79	≤30	3.42	≤36	PASS
		2480	0.58	≤30	3.21	≤36	PASS
BLE_2M	Ant1	2402	0.86	≤30	3.49	≤36	PASS
		2440	0.70	≤30	3.33	≤36	PASS
		2480	0.53	≤30	3.16	≤36	PASS

Test Graphs







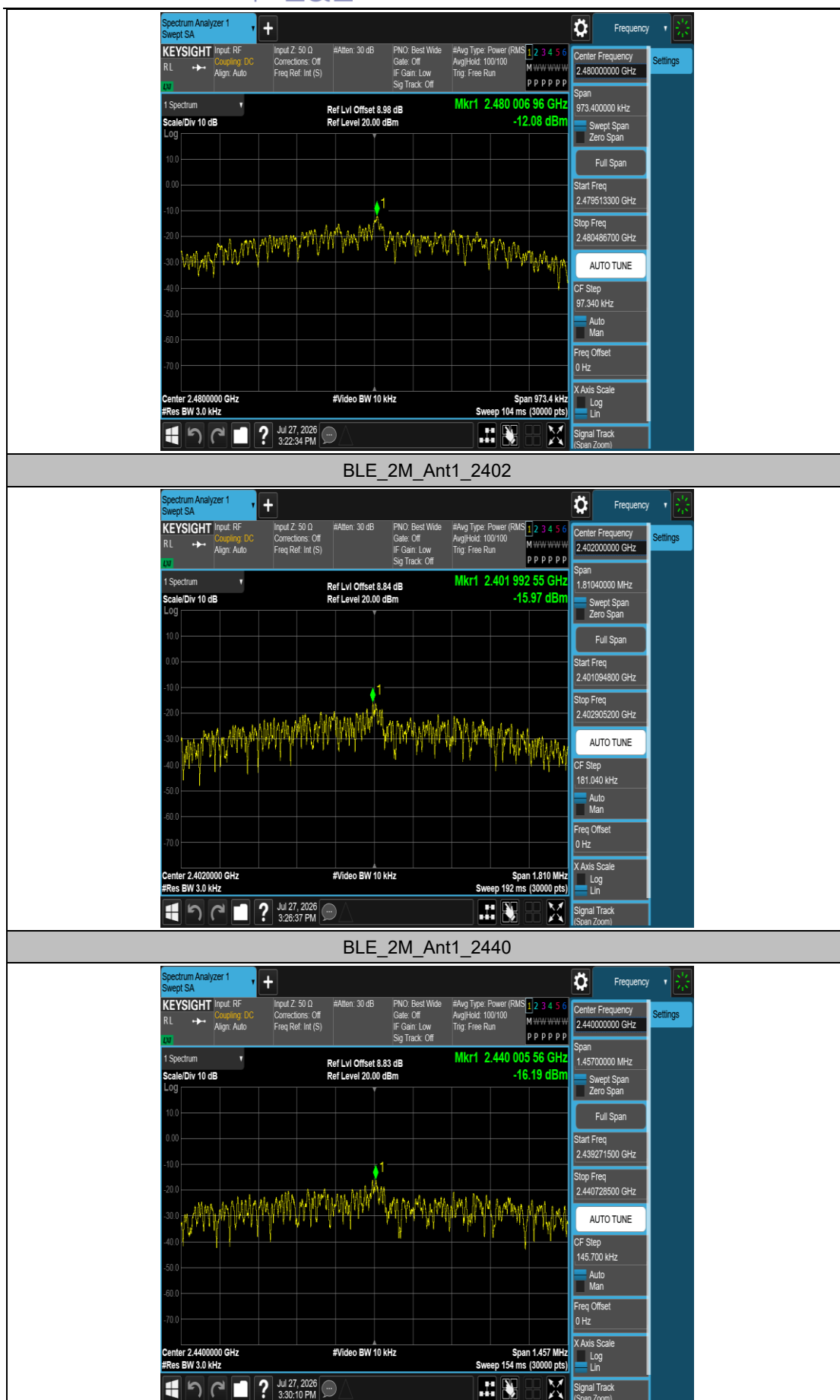
Appendix D: Maximum power spectral density

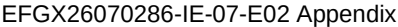
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.71	≤8.00	PASS
		2440	-11.88	≤8.00	PASS
		2480	-12.08	≤8.00	PASS
BLE_2M	Ant1	2402	-15.97	≤8.00	PASS
		2440	-16.19	≤8.00	PASS
		2480	-16.49	≤8.00	PASS

Test Graphs





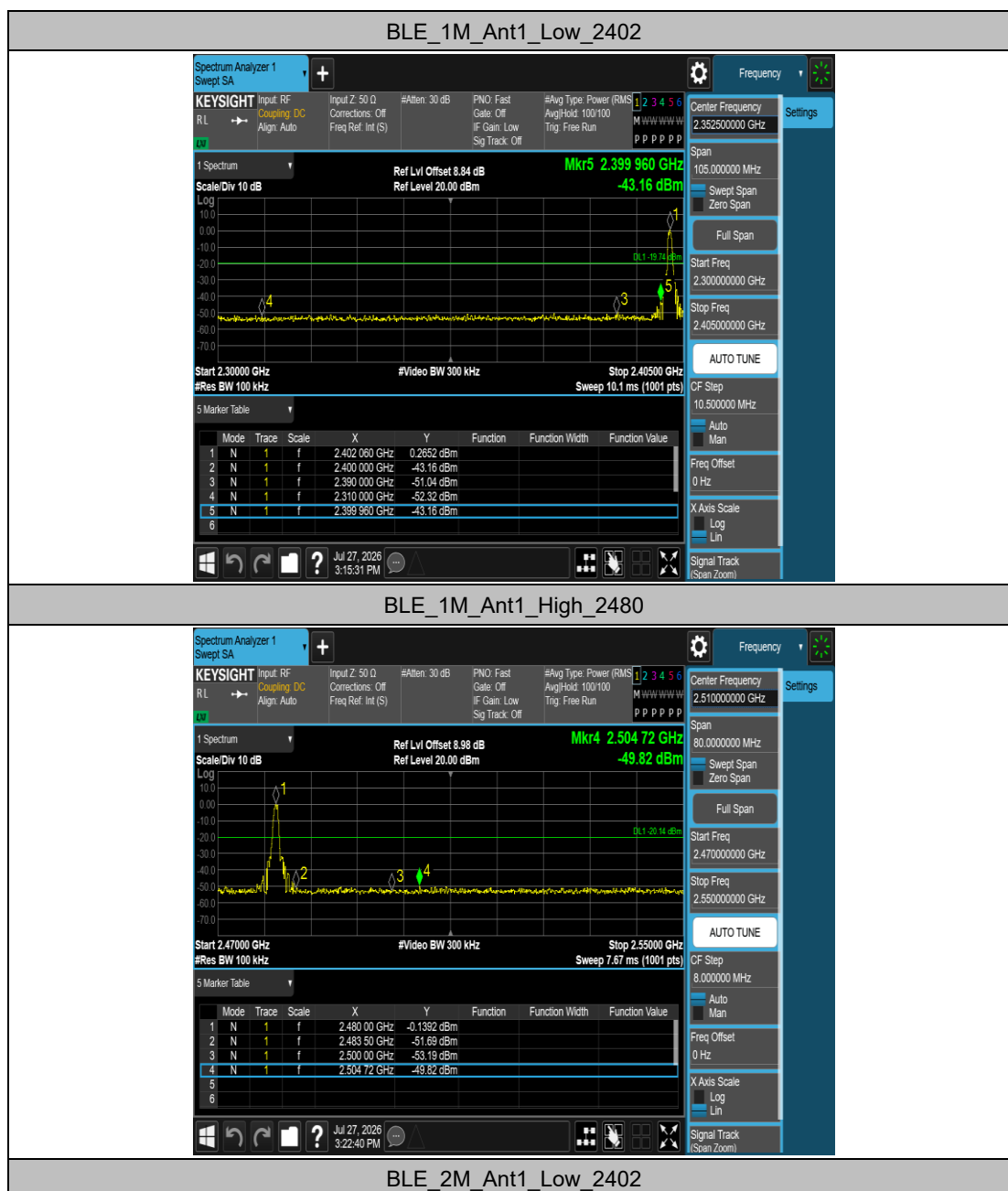


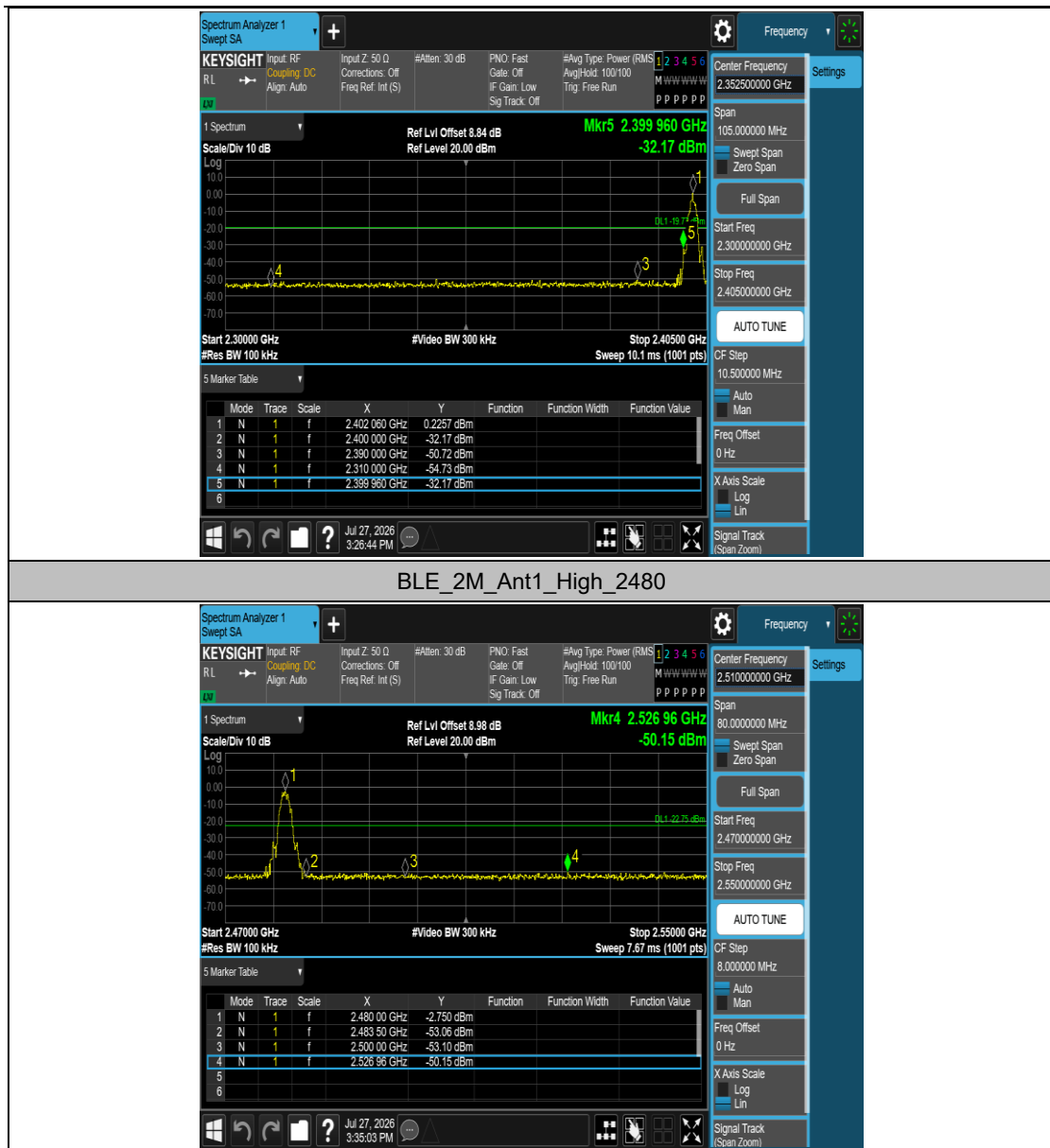
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.27	-43.16	≤ -19.74	PASS
		High	2480	-0.14	-49.82	≤ -20.14	PASS
BLE_2M	Ant1	Low	2402	0.23	-32.17	≤ -19.77	PASS
		High	2480	-2.75	-50.15	≤ -22.75	PASS

Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Correct Factor [dB]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.29	---	0.29	---	PASS
			30~1000	0.29	---	-50.76	≤-19.71	PASS
			1000~25000	0.29	17.92	-26.56	≤-19.71	PASS
		2440	Reference	0.18	---	0.18	---	PASS
			30~1000	0.18	---	-51.19	≤-19.82	PASS
			1000~25000	0.18	17.93	-26.45	≤-19.82	PASS
		2480	Reference	-0.09	---	-0.09	---	PASS
			30~1000	-0.09	---	-50.99	≤-20.09	PASS
			1000~25000	-0.09	17.78	-26.16	≤-20.09	PASS
BLE_2M	Ant1	2402	Reference	0.25	---	0.25	---	PASS
			30~1000	0.25	---	-51.79	≤-19.75	PASS
			1000~25000	0.25	17.92	-26.18	≤-19.75	PASS
		2440	Reference	0.13	---	0.13	---	PASS
			30~1000	0.13	---	-51.61	≤-19.87	PASS
			1000~25000	0.13	17.93	-26.89	≤-19.87	PASS
		2480	Reference	-0.14	---	-0.14	---	PASS
			30~1000	-0.14	---	-51.34	≤-20.14	PASS
			1000~25000	-0.14	17.78	-26.76	≤-20.14	PASS

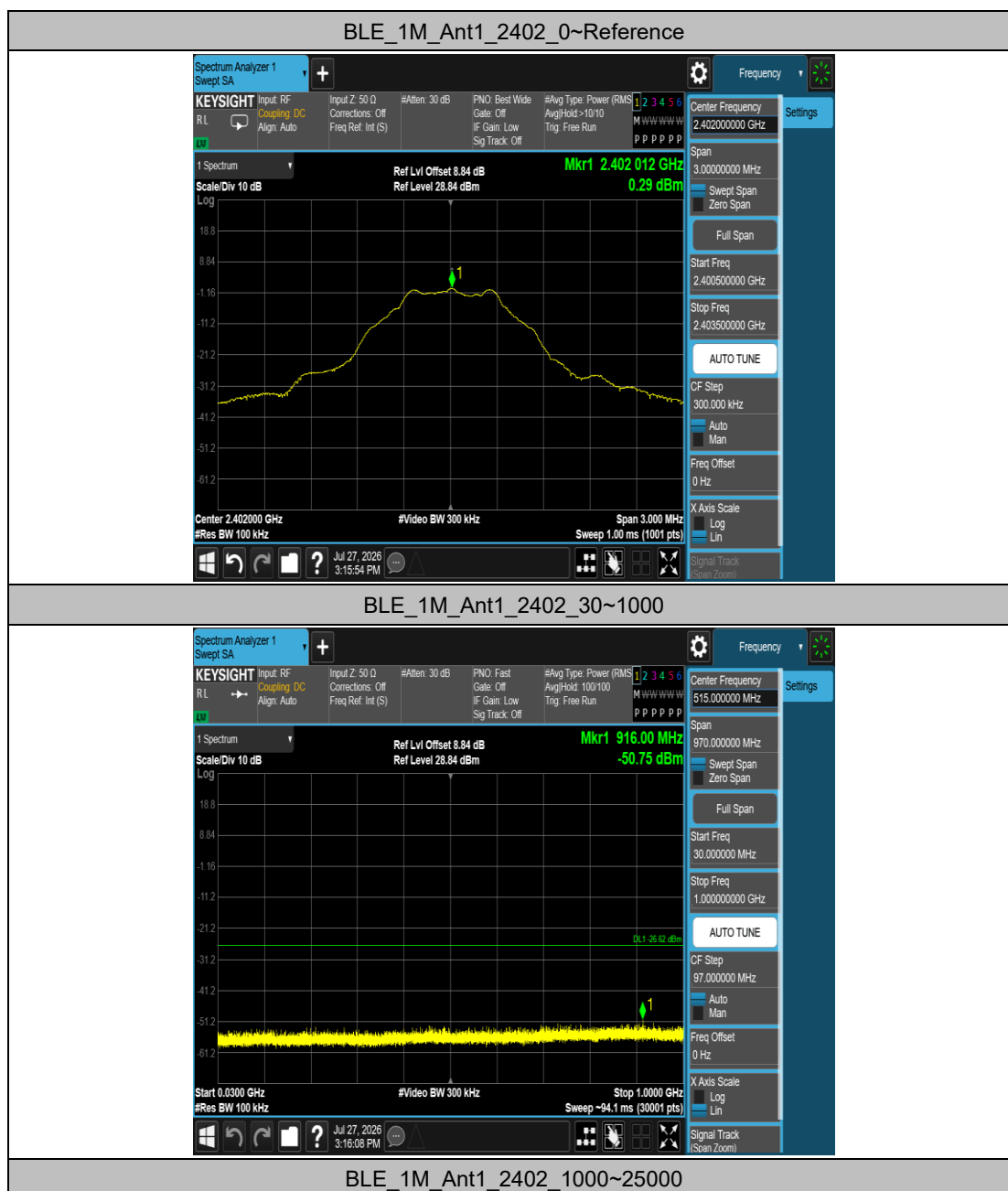
Note: The path-loss compensation factor is calibrated at 2.4 GHz. For all measured data at frequencies above 1 GHz, correction is applied using the compensation value of the maximum frequency of 25 GHz.

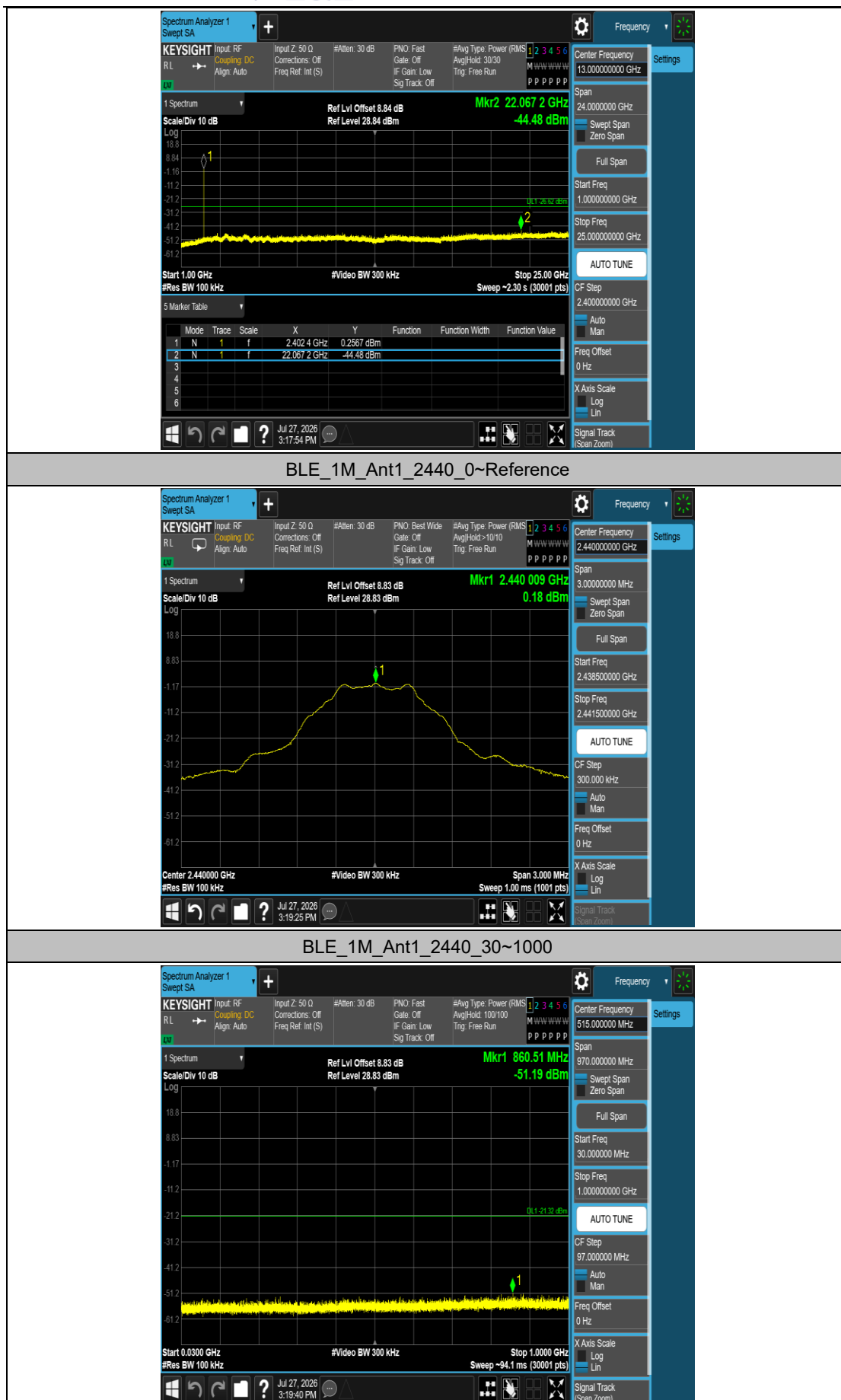
For 2402 MHz Correct Factor = 26.76 – 8.84 = 17.92 dB

For 2440 MHz Correct Factor = 26.76 – 8.83 = 17.93 dB

For 2480 MHz Correct Factor = 26.76 – 8.98 = 17.78 dB

Test Graphs

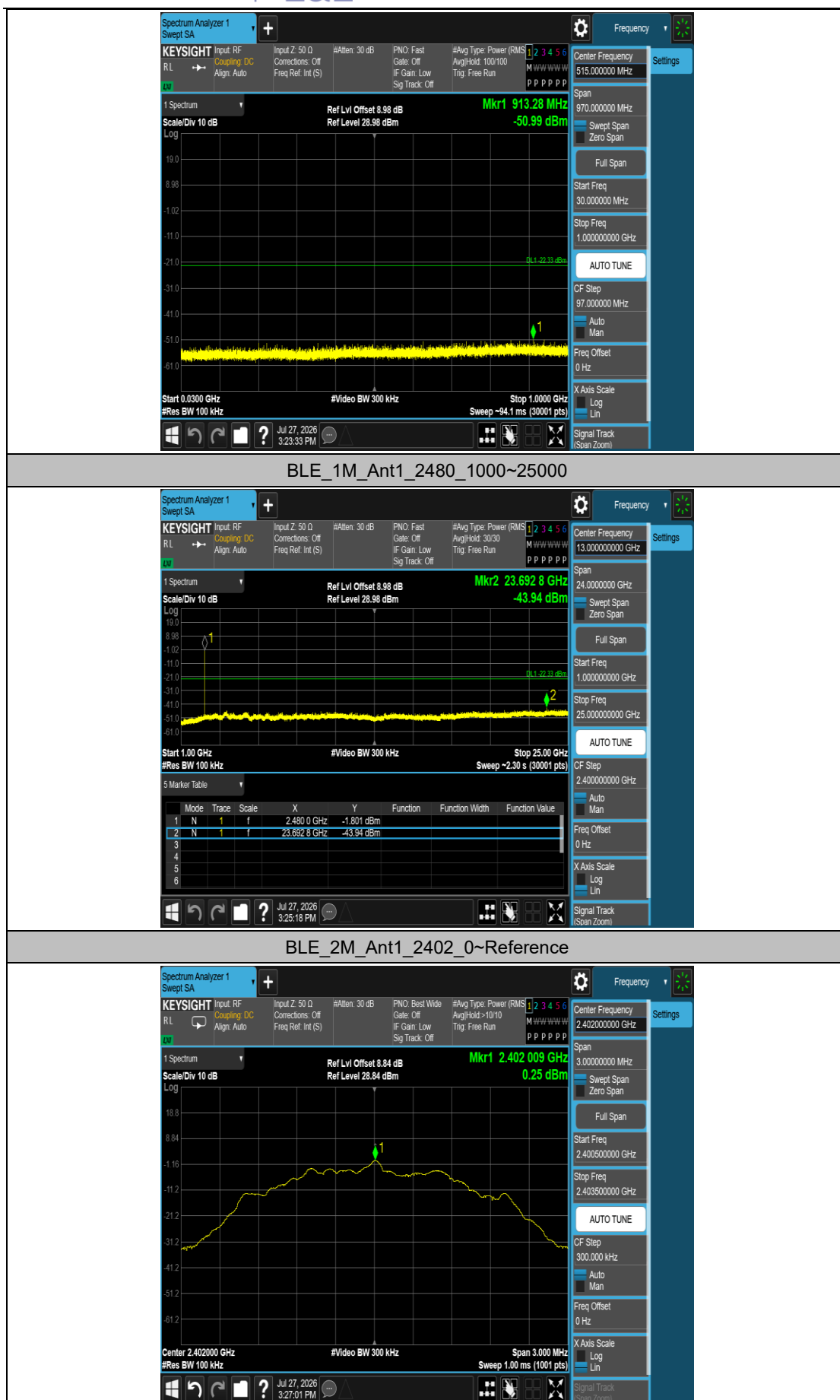


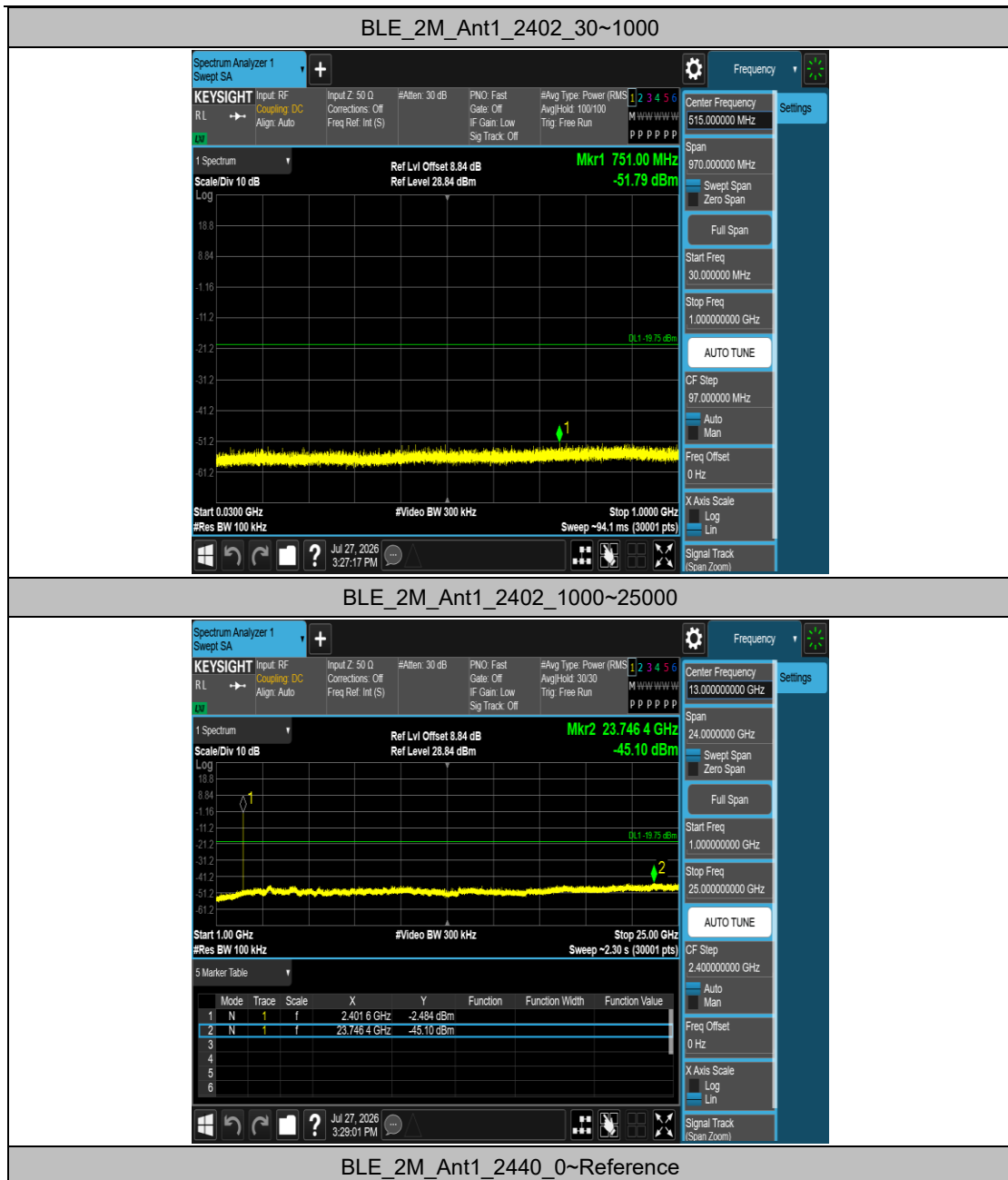


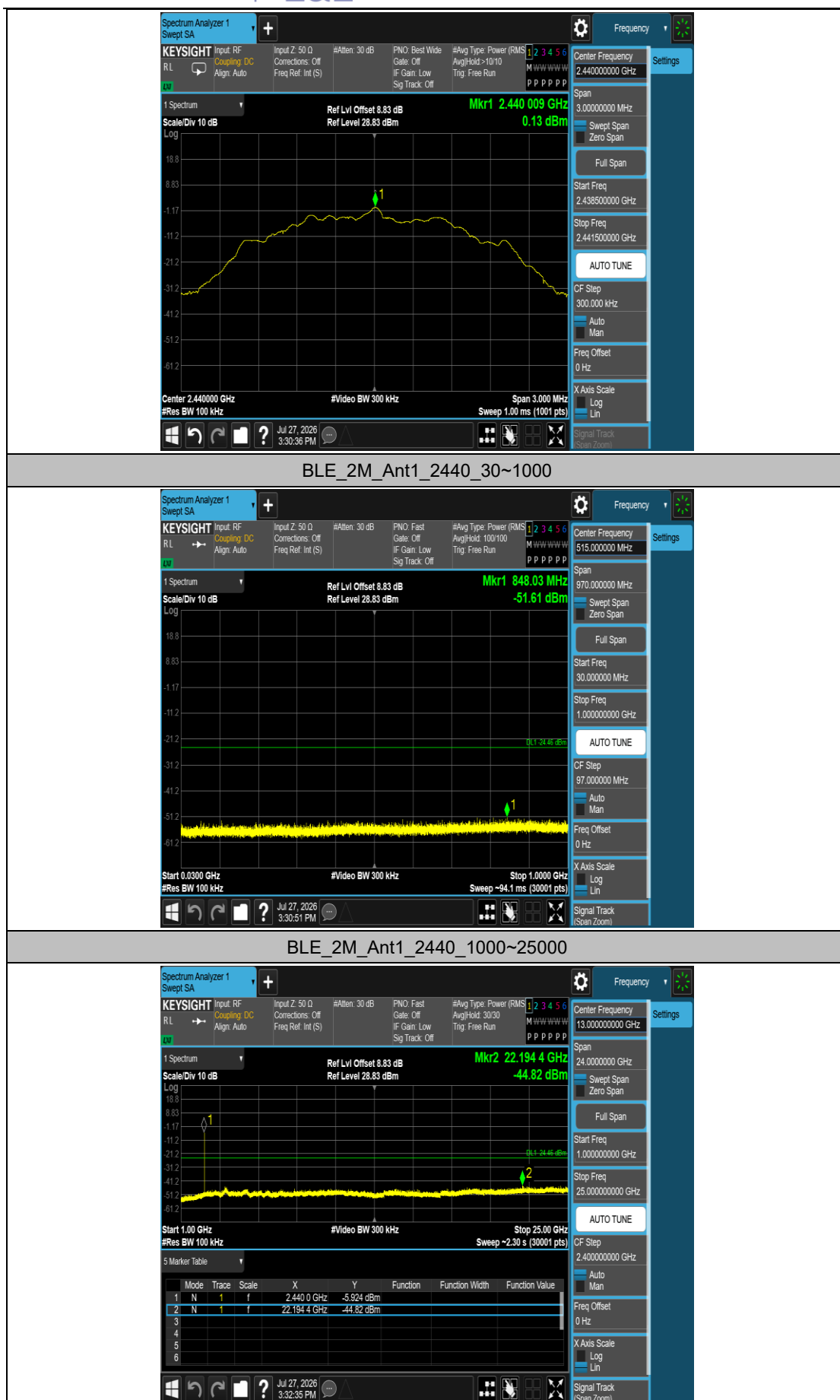
BLE_1M_Ant1_2440_1000~25000

BLE_1M_Ant1_2480_0~Reference

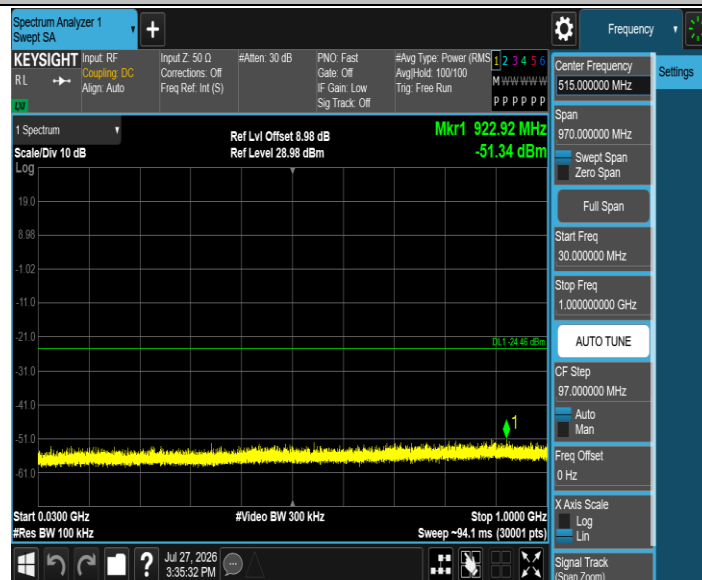
BLE_1M_Ant1_2480_30~1000







BLE_2M_Ant1_2480_0~Reference

BLE_2M_Ant1_2480_30~1000

BLE_2M_Ant1_2480_1000~25000



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]
BLE_1M	Ant1	2402	0.42	2.78	0.1511	15.11
		2440	0.42	2.78	0.1511	15.11
		2480	0.42	2.78	0.1511	15.11
BLE_2M	Ant1	2402	0.21	2.57	0.0817	8.17
		2440	0.21	2.57	0.0817	8.17
		2480	0.20	2.57	0.0778	7.78