

Appendix for Bluetooth BLE Mode

Product Name: EcoFlow Smart Generator 3000 (Dual Fuel)
Model No: EF-SG-H03-1

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1Mbps	Onboard	2402	0.696	2401.648	2402.344	0.5	PASS
	PCB	2440	0.696	2439.648	2440.344	0.5	PASS
	antenna	2480	0.688	2479.648	2480.336	0.5	PASS
BLE_2Mbps	Onboard	2402	1.140	2401.428	2402.568	0.5	PASS
	PCB	2440	1.132	2439.436	2440.568	0.5	PASS
	antenna	2480	1.096	2479.452	2480.548	0.5	PASS

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1Mbps	External	2402	0.688	2401.652	2402.340	0.5	PASS
	PCB	2440	0.676	2439.664	2440.340	0.5	PASS
	antenna	2480	0.680	2479.656	2480.336	0.5	PASS
BLE_2Mbps	External	2402	1.136	2401.420	2402.556	0.5	PASS
	PCB	2440	1.100	2439.460	2440.560	0.5	PASS
	antenna	2480	1.120	2479.448	2480.568	0.5	PASS

Test Graphs

Onboard PCB antenna





External PCB antenna





Appendix B: Maximum conducted output power

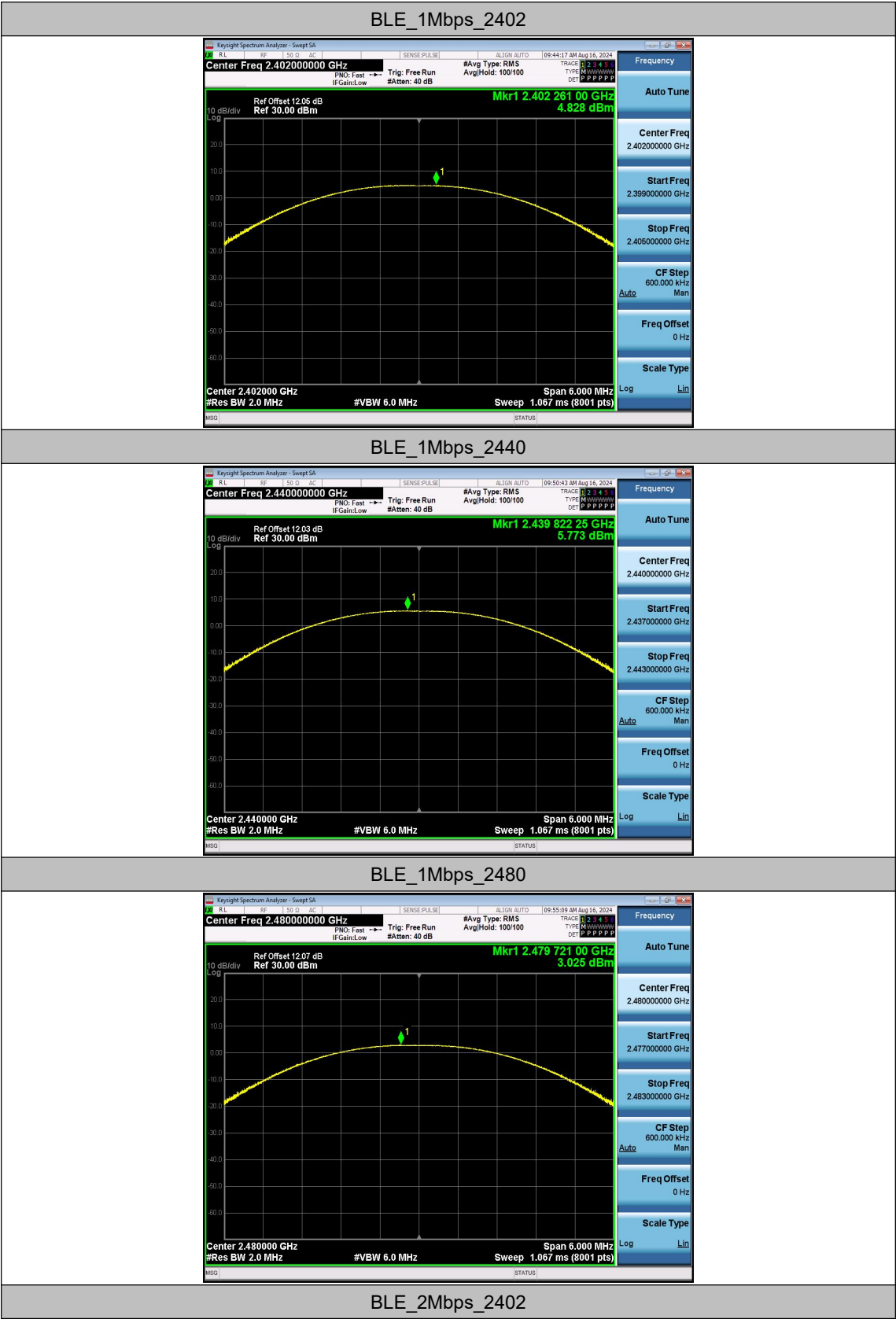
Test Result Peak

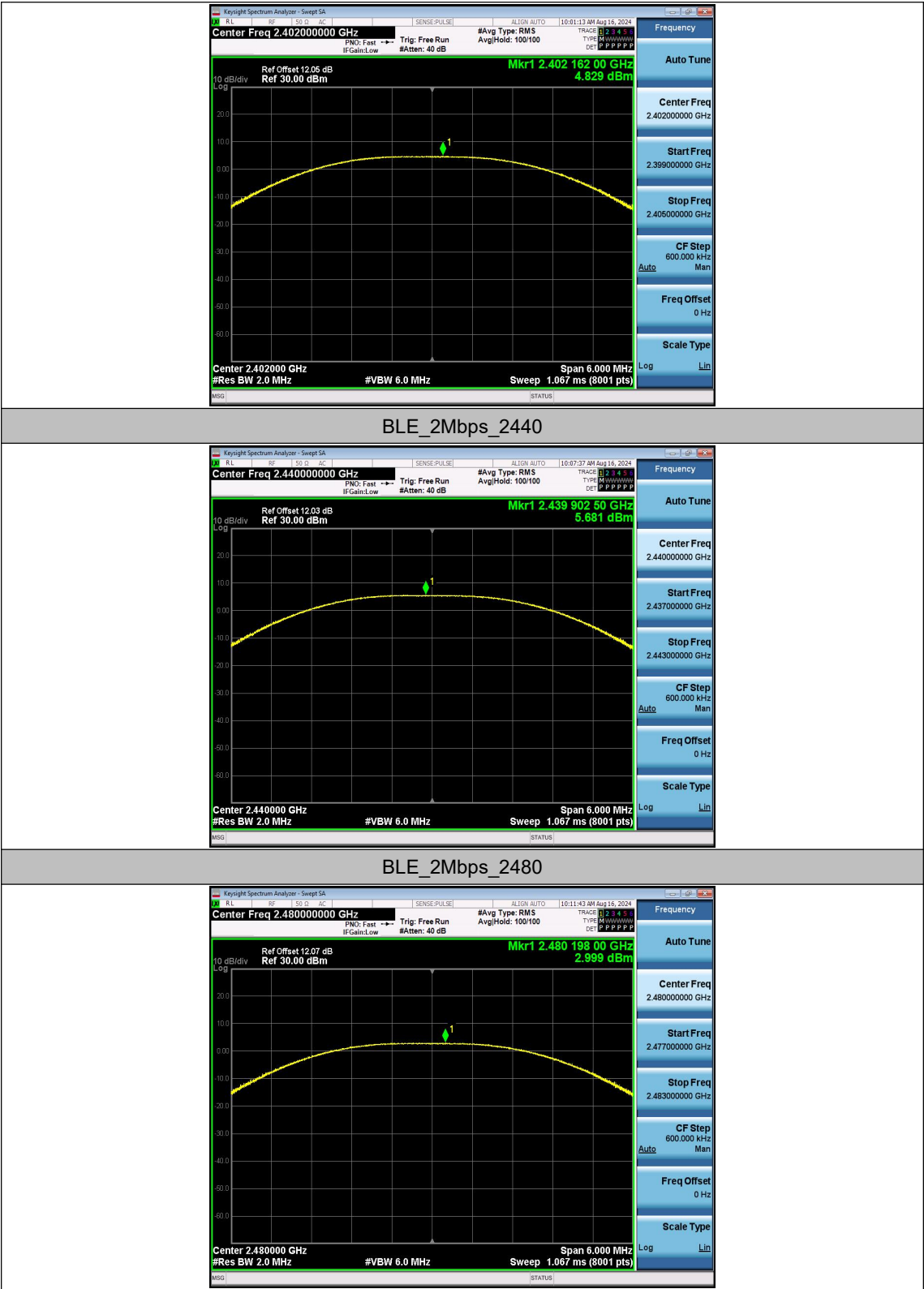
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit [dBm]	Verdict
BLE_1Mbps	Onboard	2402	4.83	≤30	PASS
	PCB	2440	5.77	≤30	PASS
	antenna	2480	3.03	≤30	PASS
BLE_2Mbps	Onboard	2402	4.83	≤30	PASS
	PCB	2440	5.68	≤30	PASS
	antenna	2480	3.00	≤30	PASS

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1Mbps	External	2402	6.69	≤30	PASS
	PCB	2440	7.49	≤30	PASS
	antenna	2480	6.12	≤30	PASS
BLE_2Mbps	External	2402	6.60	≤30	PASS
	PCB	2440	7.86	≤30	PASS
	antenna	2480	6.23	≤30	PASS

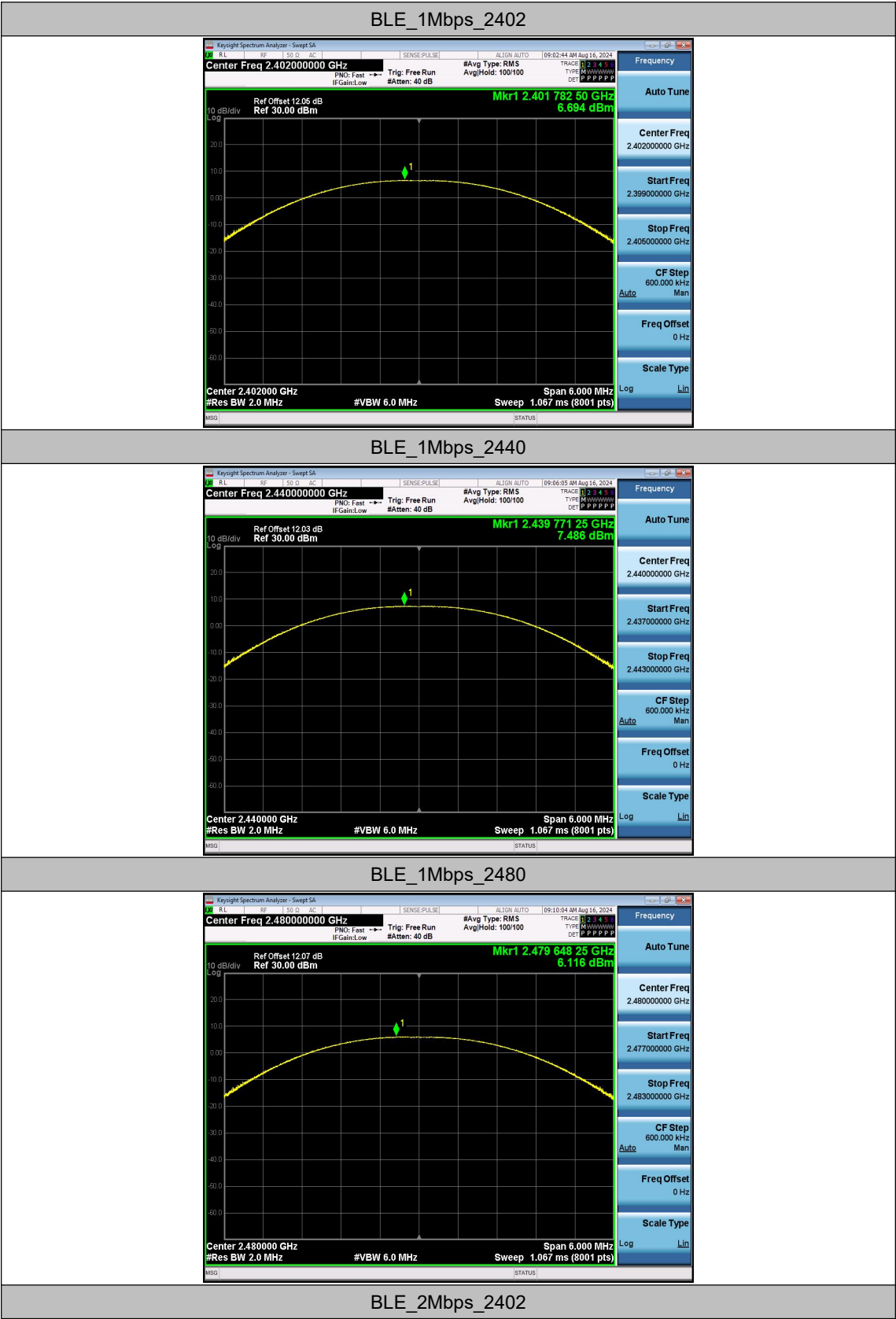
Test Graphs Peak

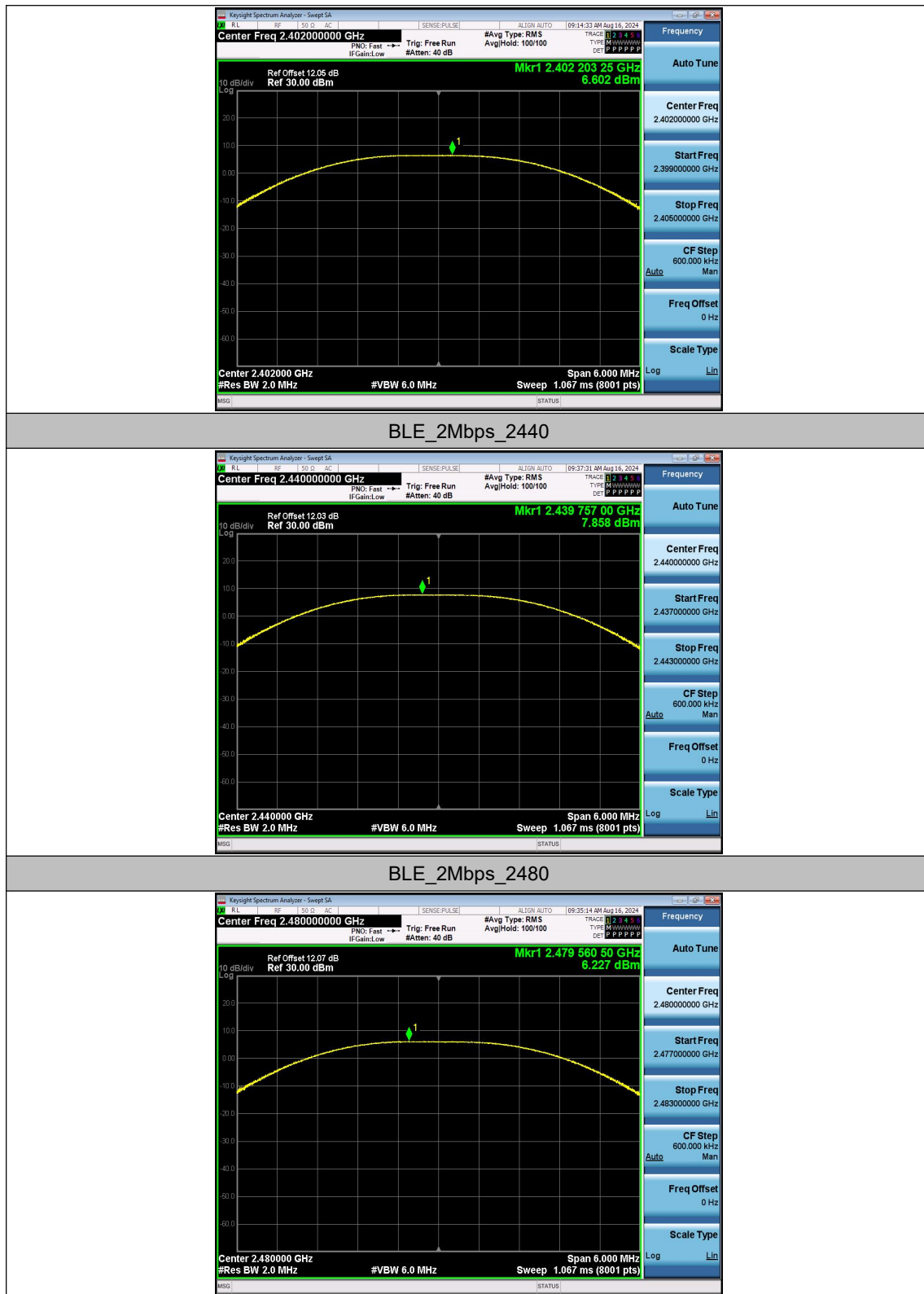
Onboard PCB antenna





External PCB antenna





Appendix C: Maximum power spectral density

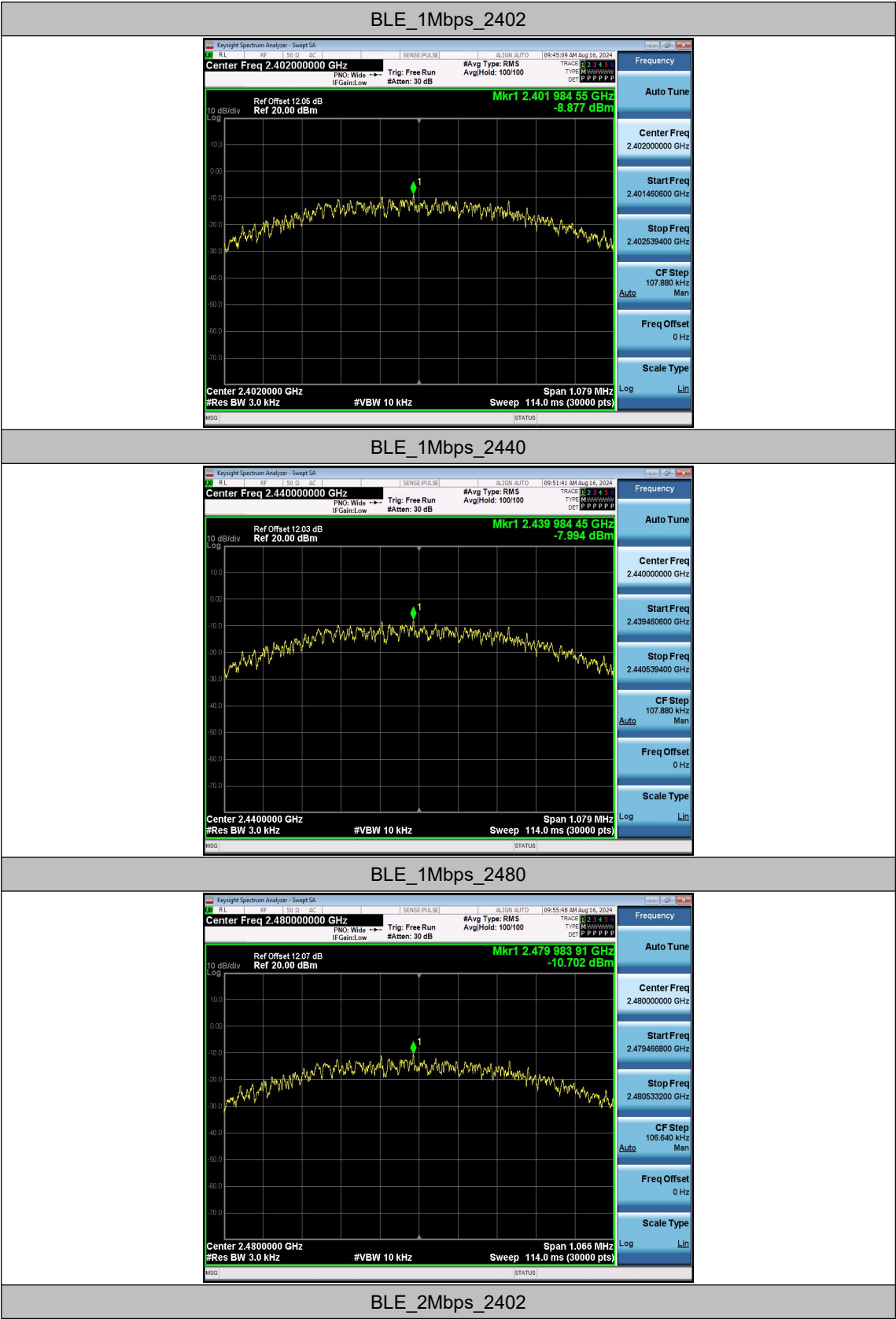
Test Result

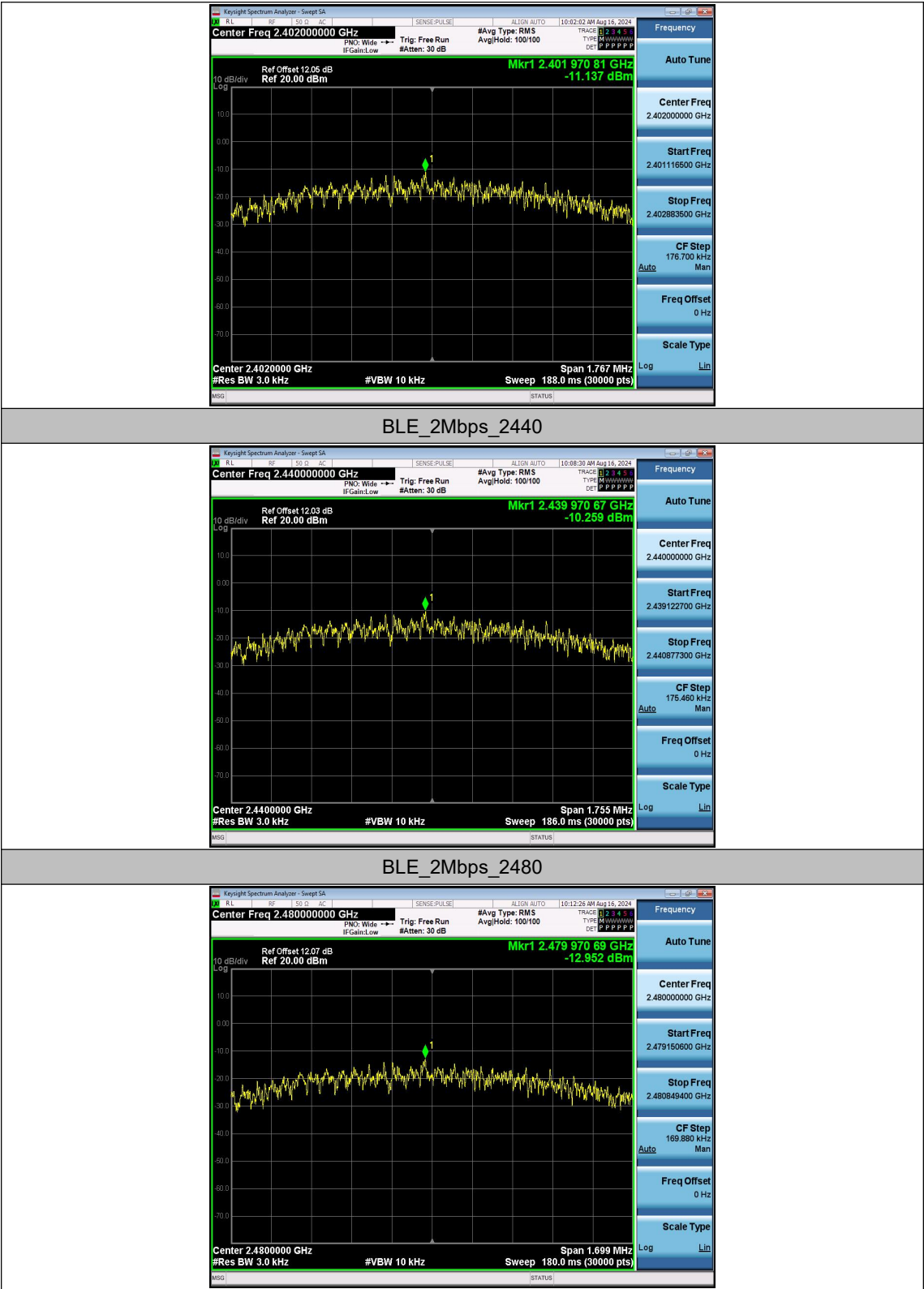
TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1Mbps	Onboard PCB antenna	2402	-8.88	≤8.00	PASS
		2440	-7.99	≤8.00	PASS
		2480	-10.70	≤8.00	PASS
BLE_2Mbps	Onboard PCB antenna	2402	-11.14	≤8.00	PASS
		2440	-10.26	≤8.00	PASS
		2480	-12.95	≤8.00	PASS

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1Mbps	External PCB antenna	2402	-6.93	≤8.00	PASS
		2440	-6.18	≤8.00	PASS
		2480	-7.52	≤8.00	PASS
BLE_2Mbps	External PCB antenna	2402	-9.31	≤8.00	PASS
		2440	-7.91	≤8.00	PASS
		2480	-9.61	≤8.00	PASS

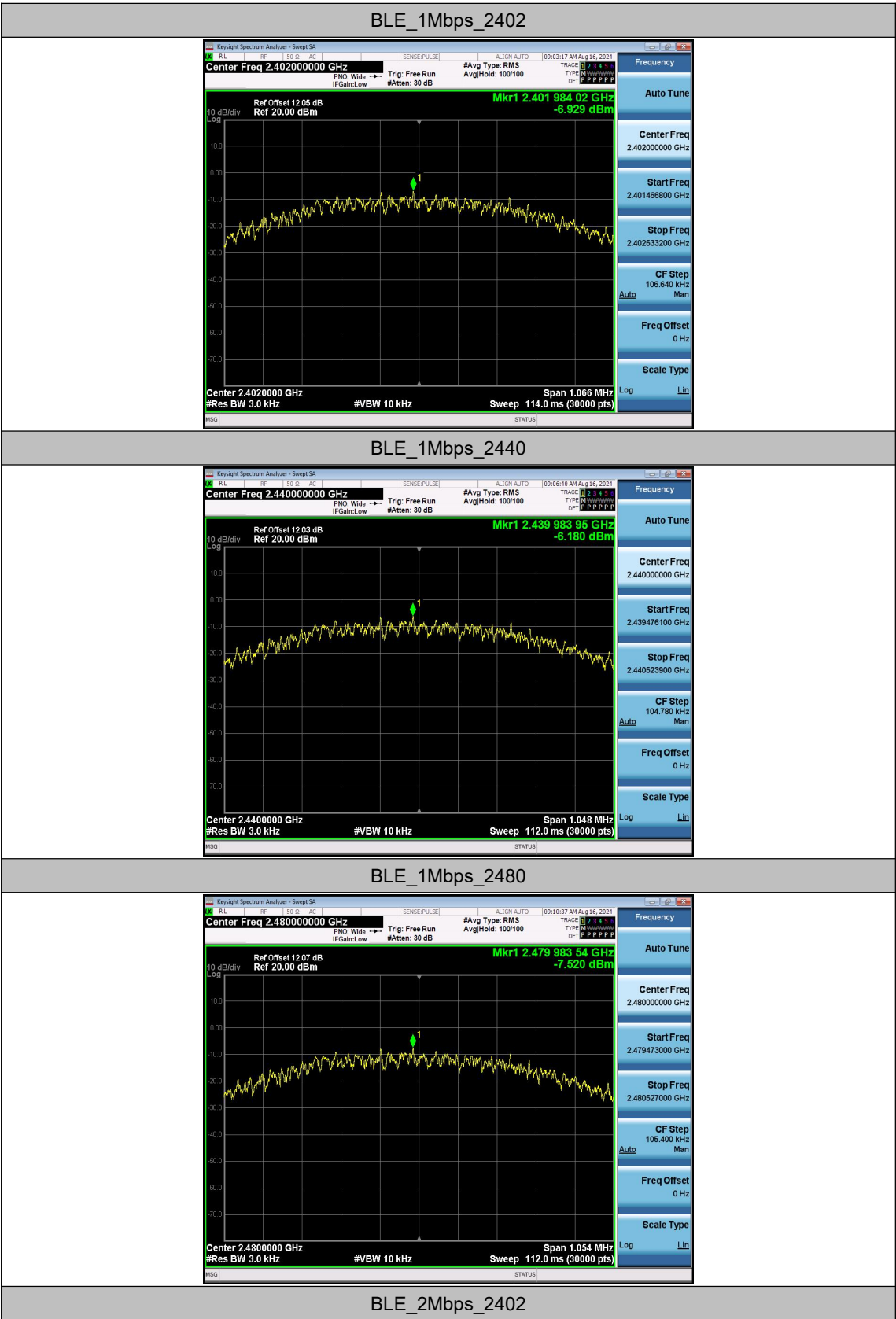
Test Graphs

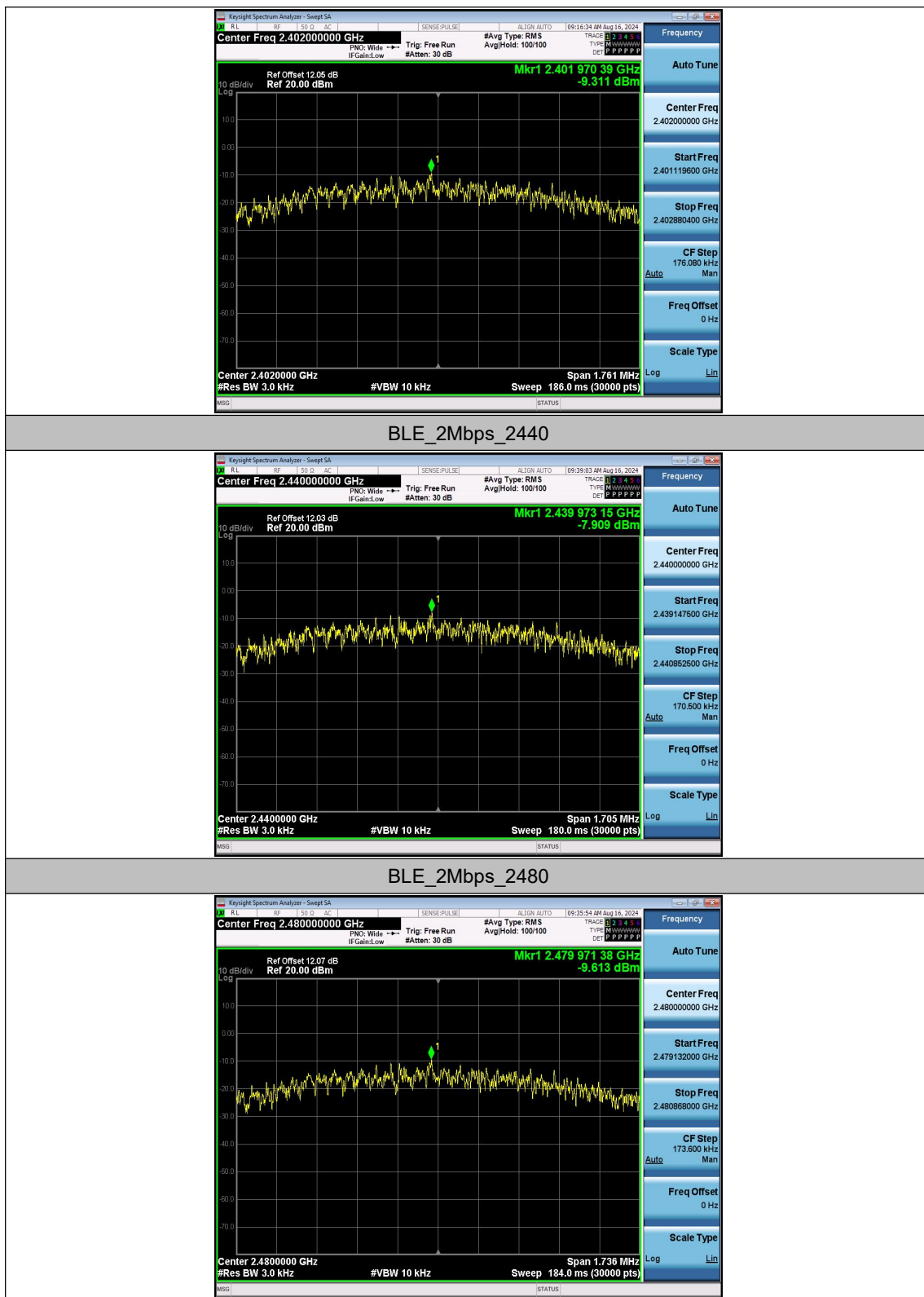
Onboard PCB antenna





External PCB antenna





Appendix D: Band edge measurements

Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1Mbps	External	2402	2401.74	3.68
	PCB	2440	2439.77	4.38
	antenna	2480	2479.76	1.87
BLE_2Mbps	External	2402	2402.00	2.68
	PCB	2440	2439.97	3.90
	antenna	2480	2480.02	0.83

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1Mbps	External	2402	2401.75	5.70
	PCB	2440	2439.74	6.49
	antenna	2480	2479.77	4.89
BLE_2Mbps	External	2402	2401.98	4.56
	PCB	2440	2439.99	5.81
	antenna	2480	2479.98	4.57

Test Graphs

Onboard PCB antenna

