

Appendix for BLE

Product Name: Smart phone

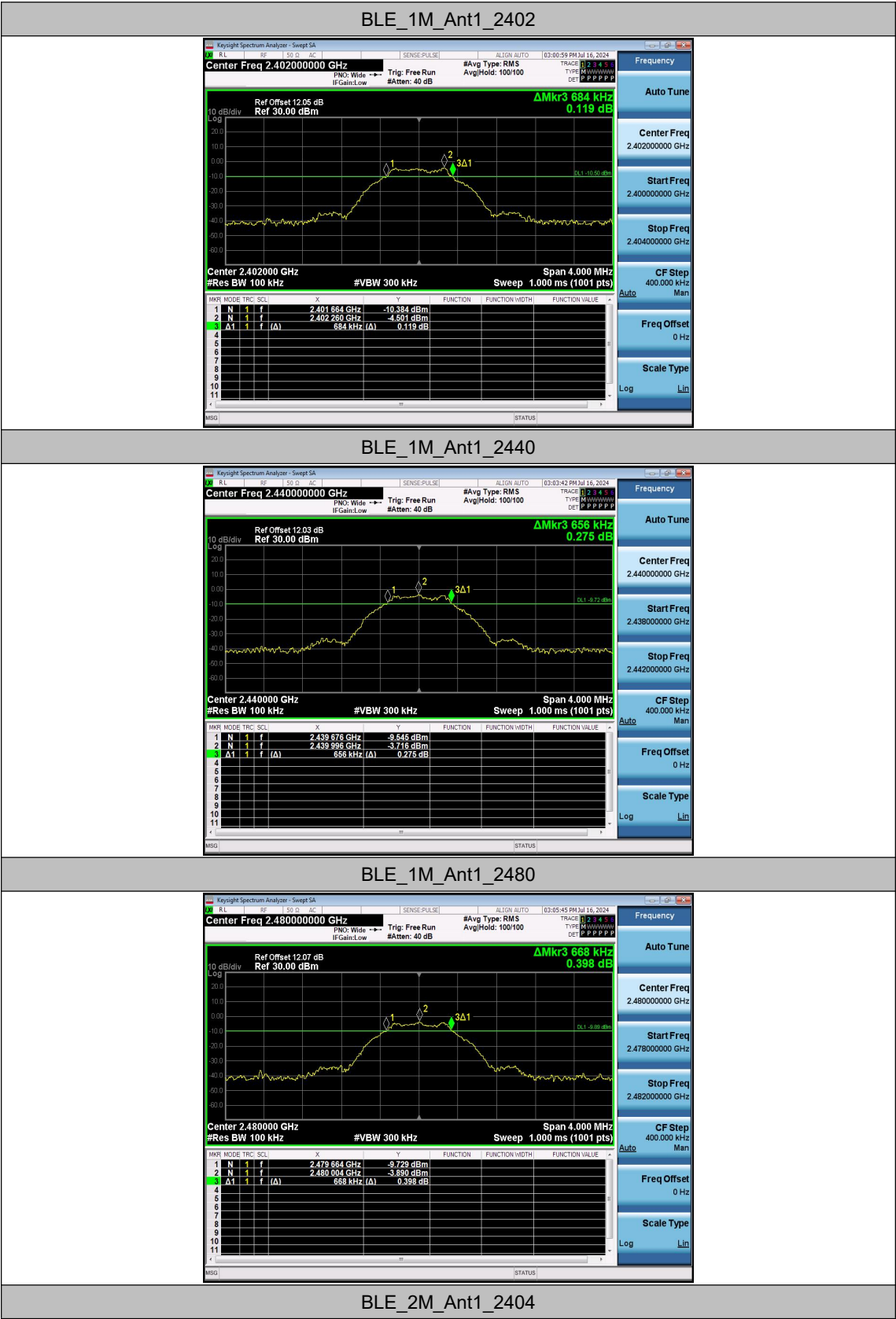
Model No: Black 5

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.664	2402.348	0.5	PASS
		2440	0.656	2439.676	2440.332	0.5	PASS
		2480	0.668	2479.664	2480.332	0.5	PASS
BLE_2M	Ant1	2404	1.320	2403.340	2404.660	0.5	PASS
		2440	1.148	2439.440	2440.588	0.5	PASS
		2478	1.212	2477.376	2478.588	0.5	PASS

Test Graphs





Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0514	2401.4876	2402.5390	---	---
		2440	1.0564	2439.4832	2440.5396	---	---
		2480	1.0516	2479.4878	2480.5394	---	---
BLE_2M	Ant1	2404	2.1174	2402.9619	2405.0793	---	---
		2440	2.1069	2438.9688	2441.0757	---	---
		2478	2.1032	2476.9659	2479.0691	---	---

Test Graphs



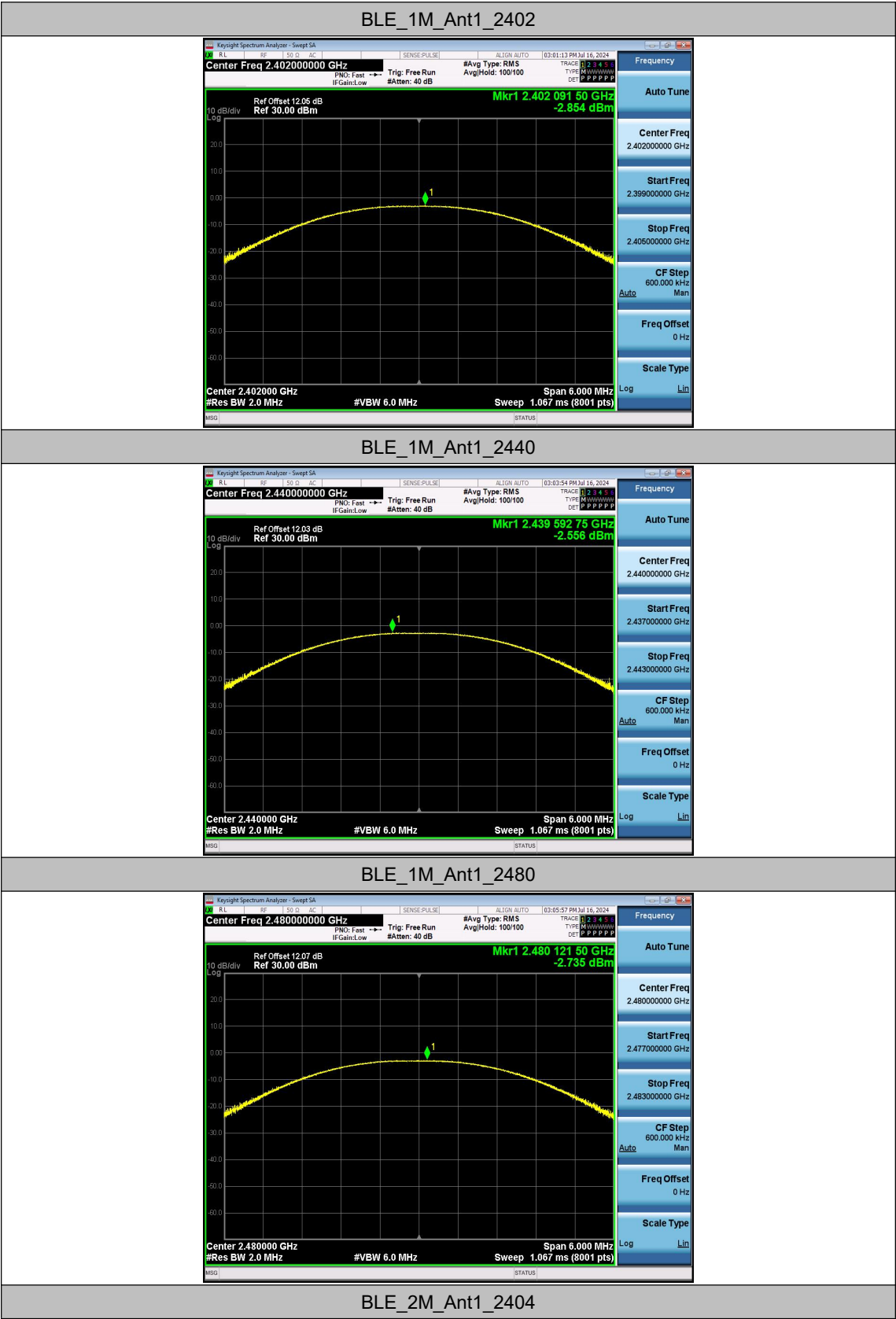


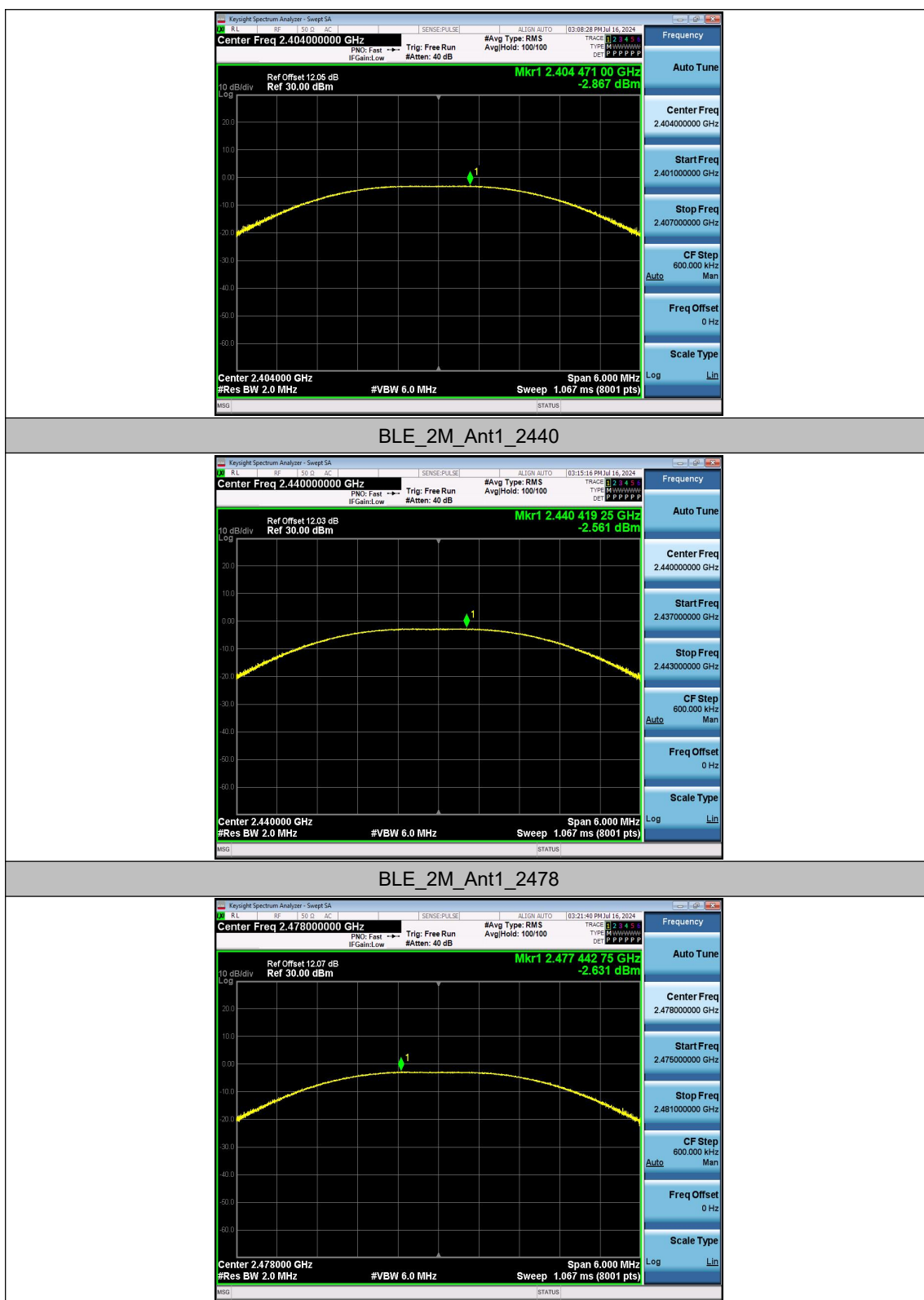
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.85	≤30	PASS
		2440	-2.56	≤30	PASS
		2480	-2.74	≤30	PASS
BLE_2M	Ant1	2404	-2.87	≤30	PASS
		2440	-2.56	≤30	PASS
		2478	-2.63	≤30	PASS

Test Graphs Peak



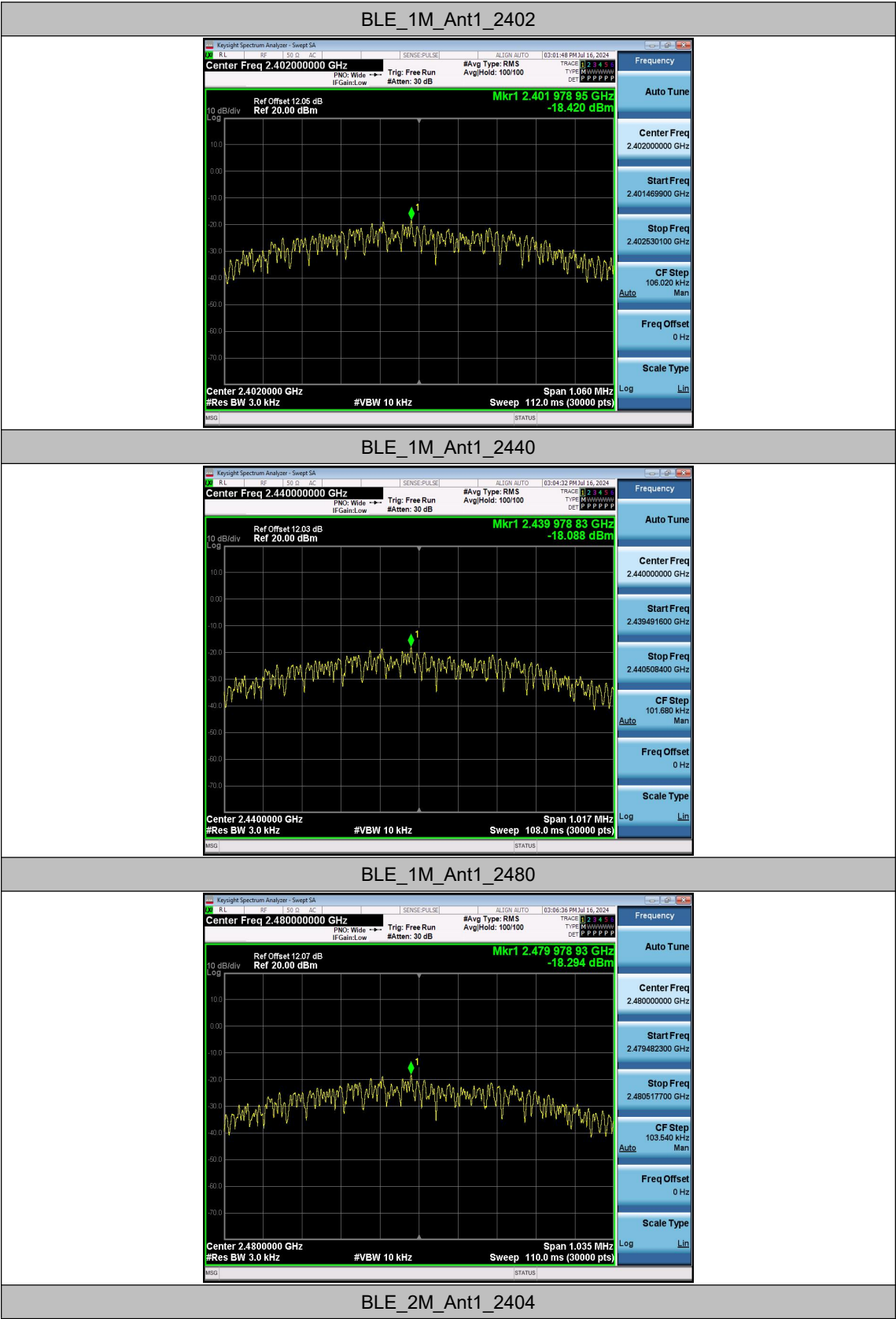


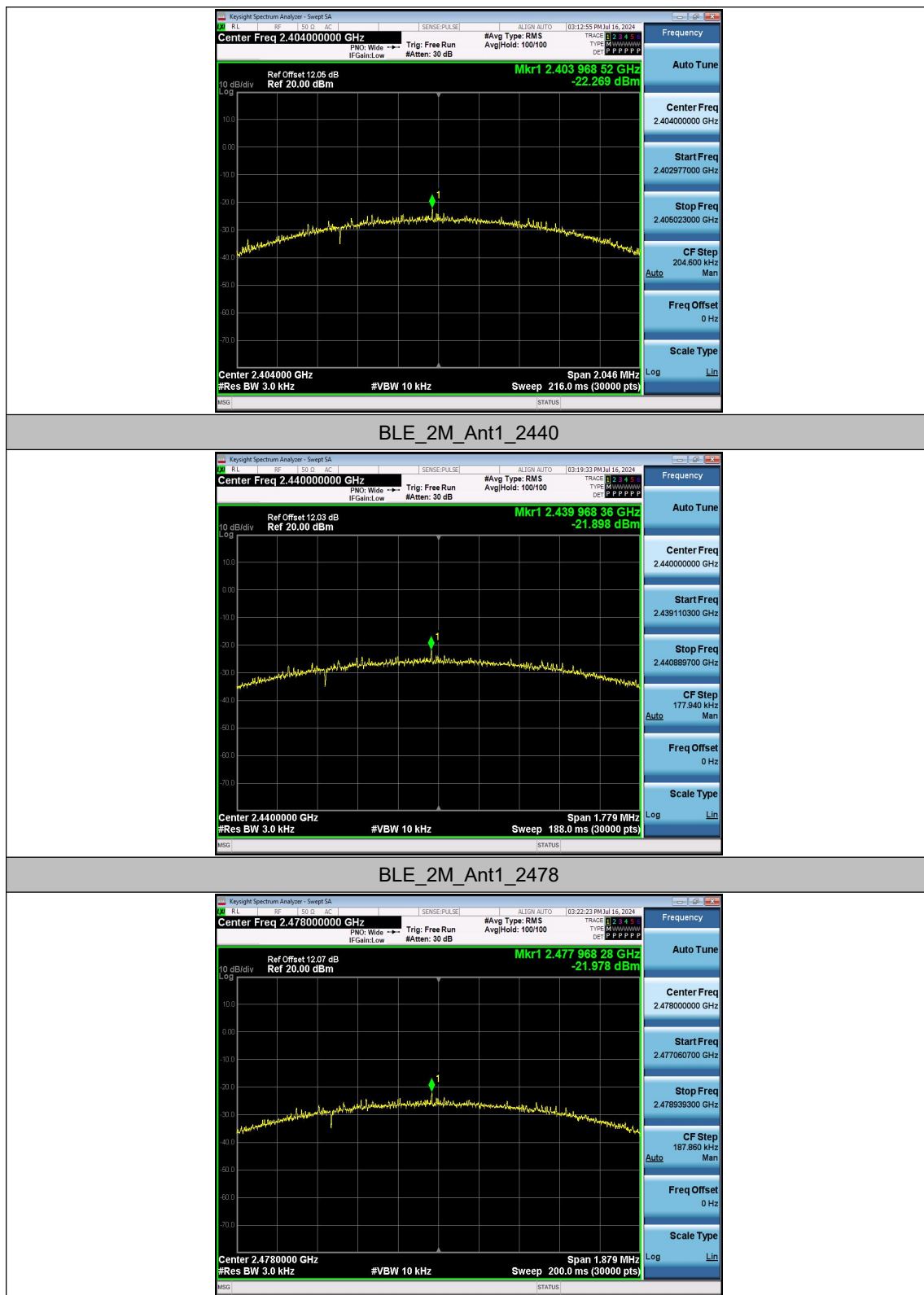
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.42	≤8.00	PASS
		2440	-18.09	≤8.00	PASS
		2480	-18.29	≤8.00	PASS
BLE_2M	Ant1	2404	-22.27	≤8.00	PASS
		2440	-21.90	≤8.00	PASS
		2478	-21.98	≤8.00	PASS

Test Graphs



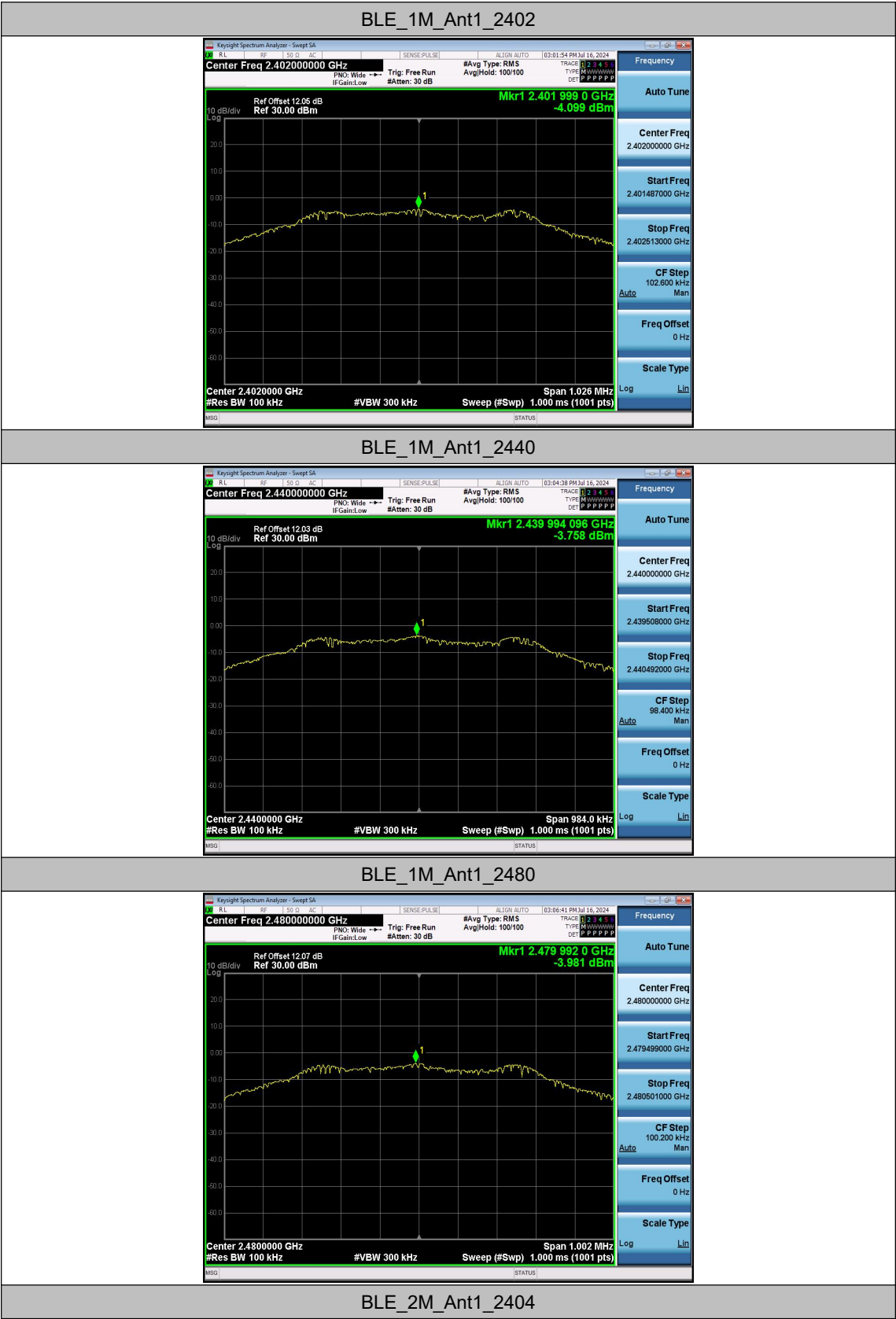


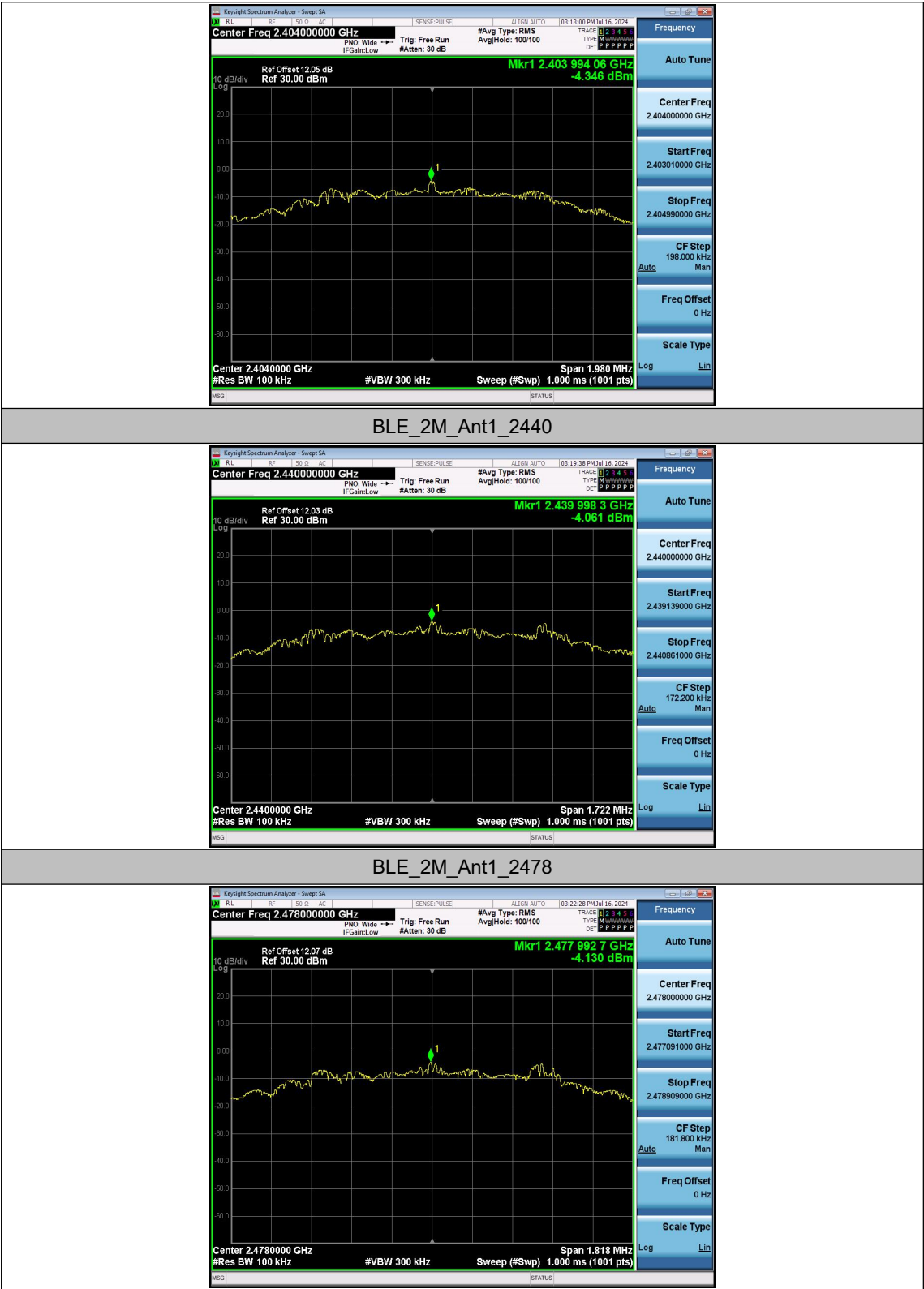
Appendix E: Reference level measurement

Test Result

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2402.00	-4.10
		2440	2439.99	-3.76
		2480	2479.99	-3.98
BLE_2M	Ant1	2404	2403.99	-4.35
		2440	2440.00	-4.06
		2478	2477.99	-4.13

Test Graphs



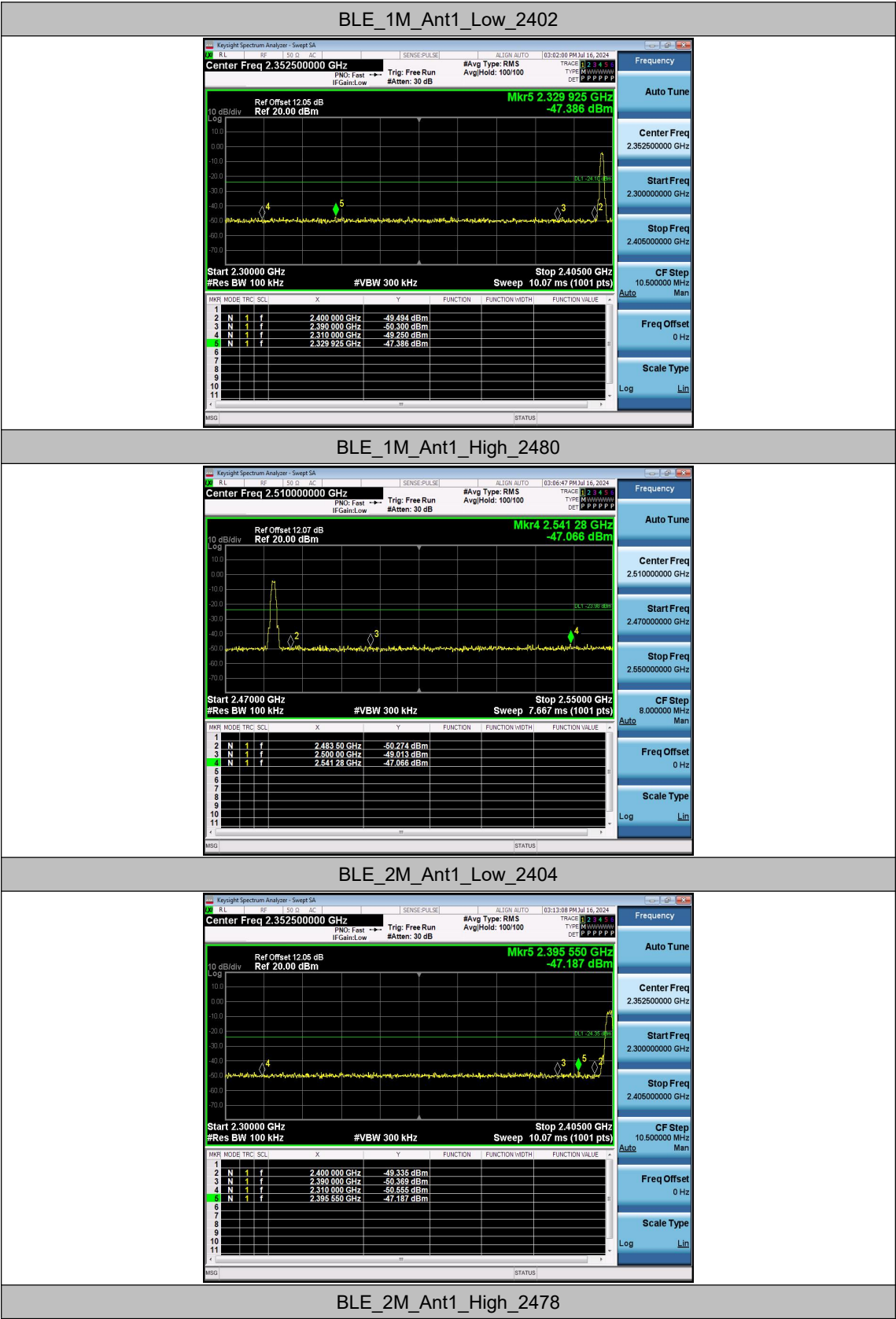


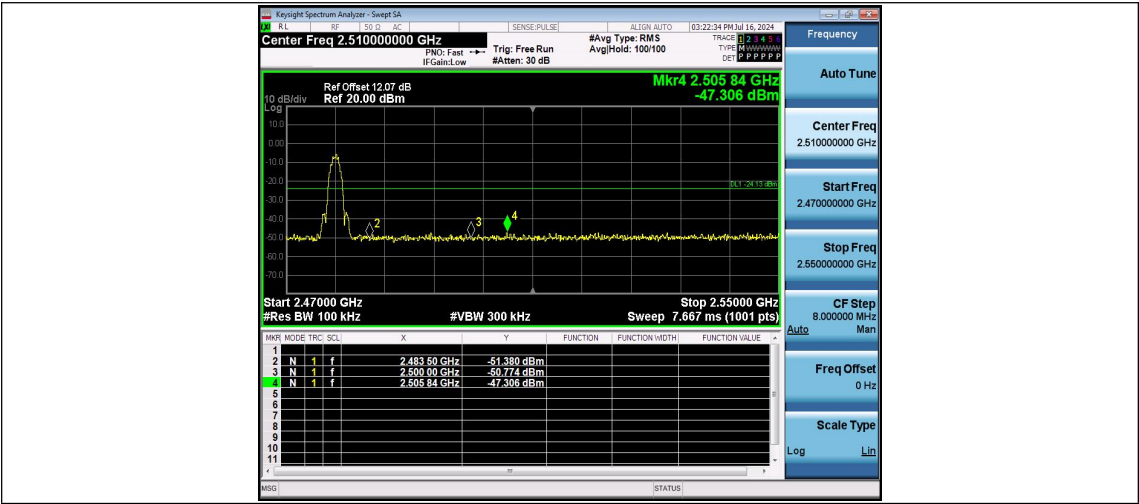
Appendix F: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.10	-47.39	≤-24.1	PASS
		High	2480	-3.98	-47.07	≤-23.98	PASS
BLE_2M	Ant1	Low	2404	-4.35	-47.19	≤-24.35	PASS
		High	2478	-4.13	-47.31	≤-24.13	PASS

Test Graphs





Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-4.10	-58.69	≤-24.1	PASS
			1000~26500	-4.10	-44.08	≤-24.1	PASS
		2440	30~1000	-3.76	-59.04	≤-23.76	PASS
			1000~26500	-3.76	-44.5	≤-23.76	PASS
		2480	30~1000	-3.98	-58.22	≤-23.98	PASS
			1000~26500	-3.98	-43.88	≤-23.98	PASS
BLE_2M	Ant1	2404	30~1000	-4.35	-58.76	≤-24.35	PASS
			1000~26500	-4.35	-44.5	≤-24.35	PASS
		2440	30~1000	-4.06	-59.01	≤-24.06	PASS
			1000~26500	-4.06	-44.16	≤-24.06	PASS
		2478	30~1000	-4.13	-58.85	≤-24.13	PASS
			1000~26500	-4.13	-44.08	≤-24.13	PASS

Test Graphs

