

Appendix Test Data for BLE (Conducted Measurement)

Product Name: Smart Watch

Trade Mark: N/A

Test Model: LS

FCC ID: 2A4AX-LS

Environmental Conditions

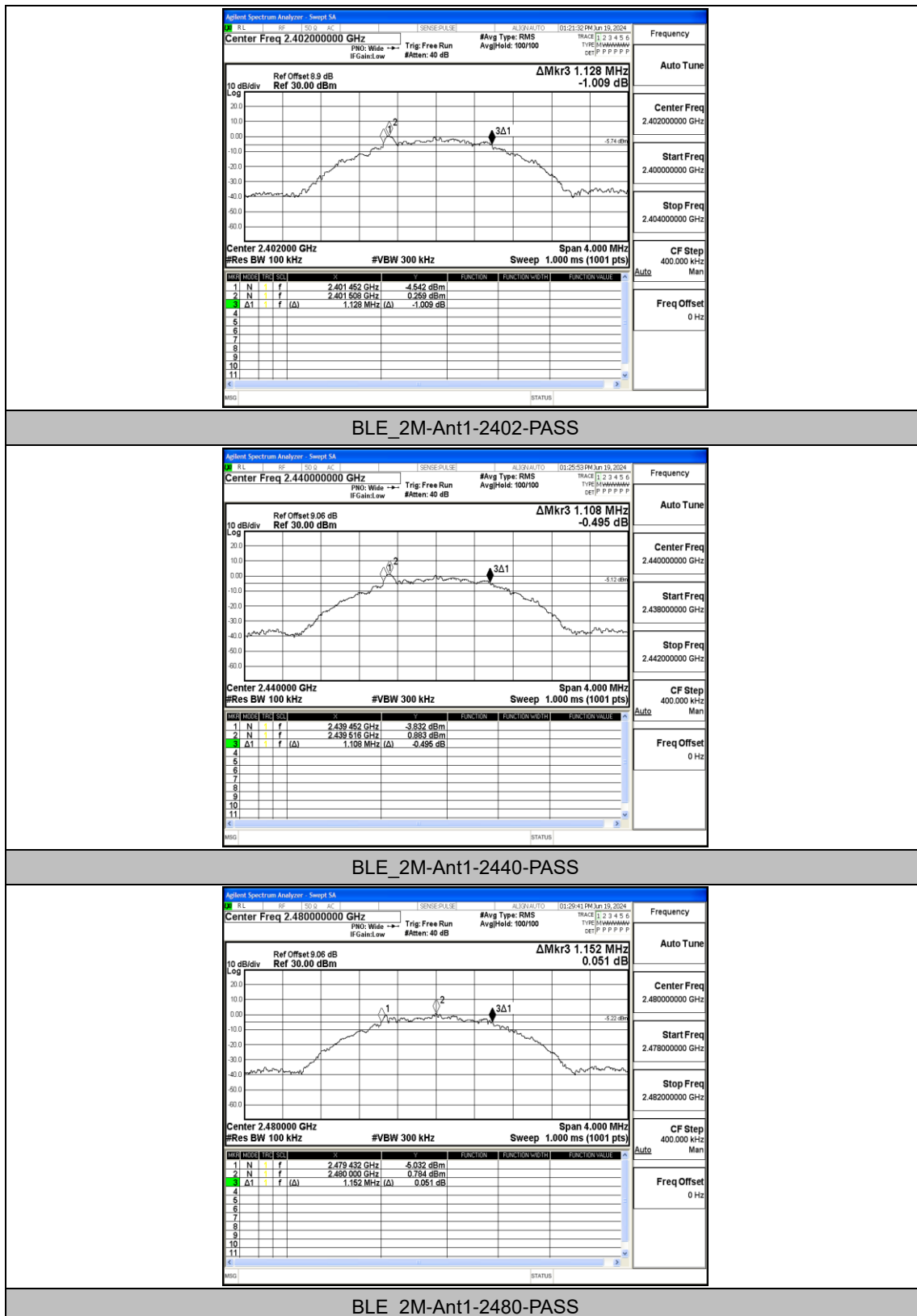
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.128	2401.452	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.452	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.152	2479.432	2480.584	0.5	PASS

Test Graphs

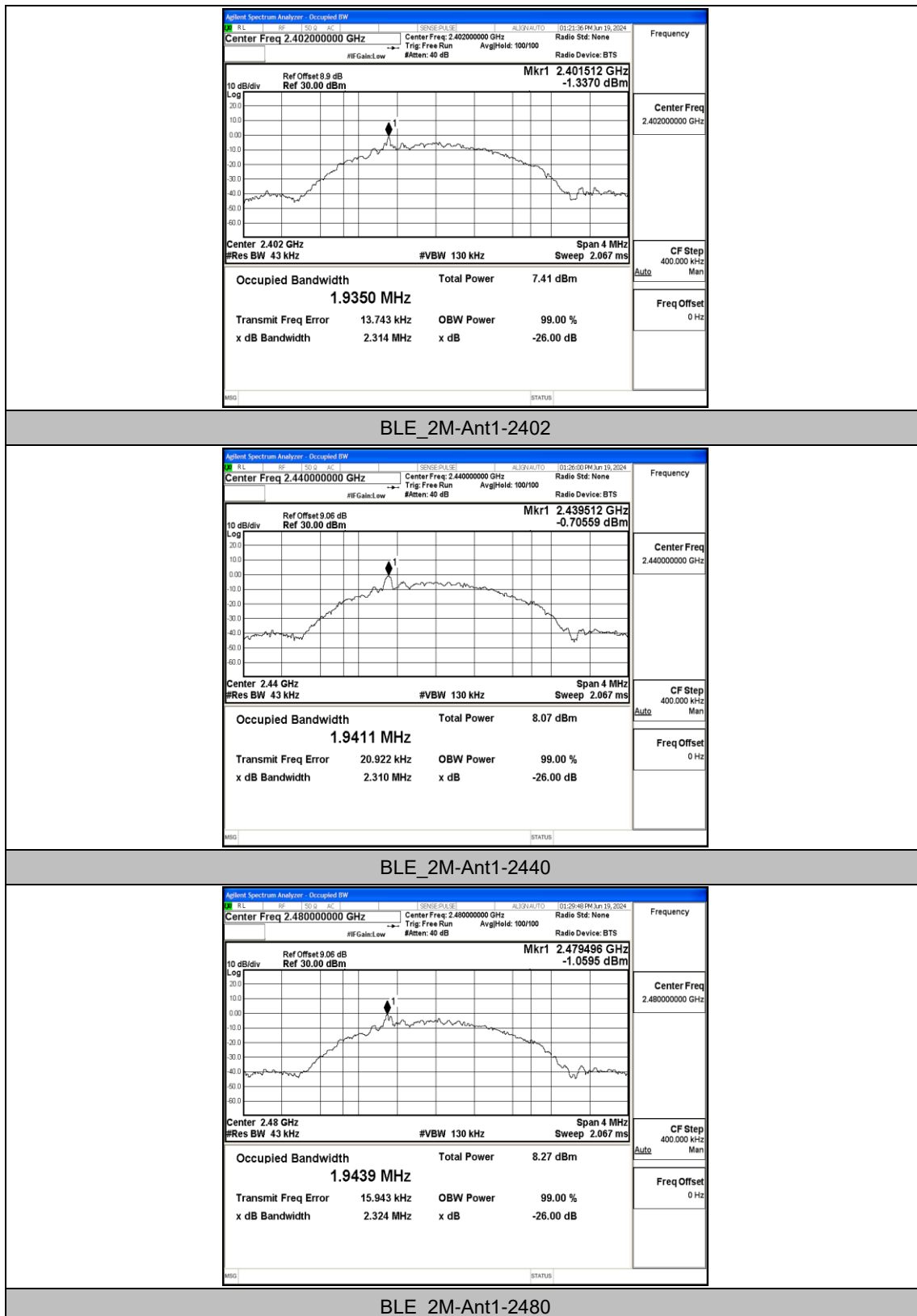


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_2M	Ant1	2402	1.9350	2401.0462	2402.9812	---	---
BLE_2M	Ant1	2440	1.9411	2439.0504	2440.9915	---	---
BLE_2M	Ant1	2480	1.9439	2479.0440	2480.9879	---	---

Test Graphs

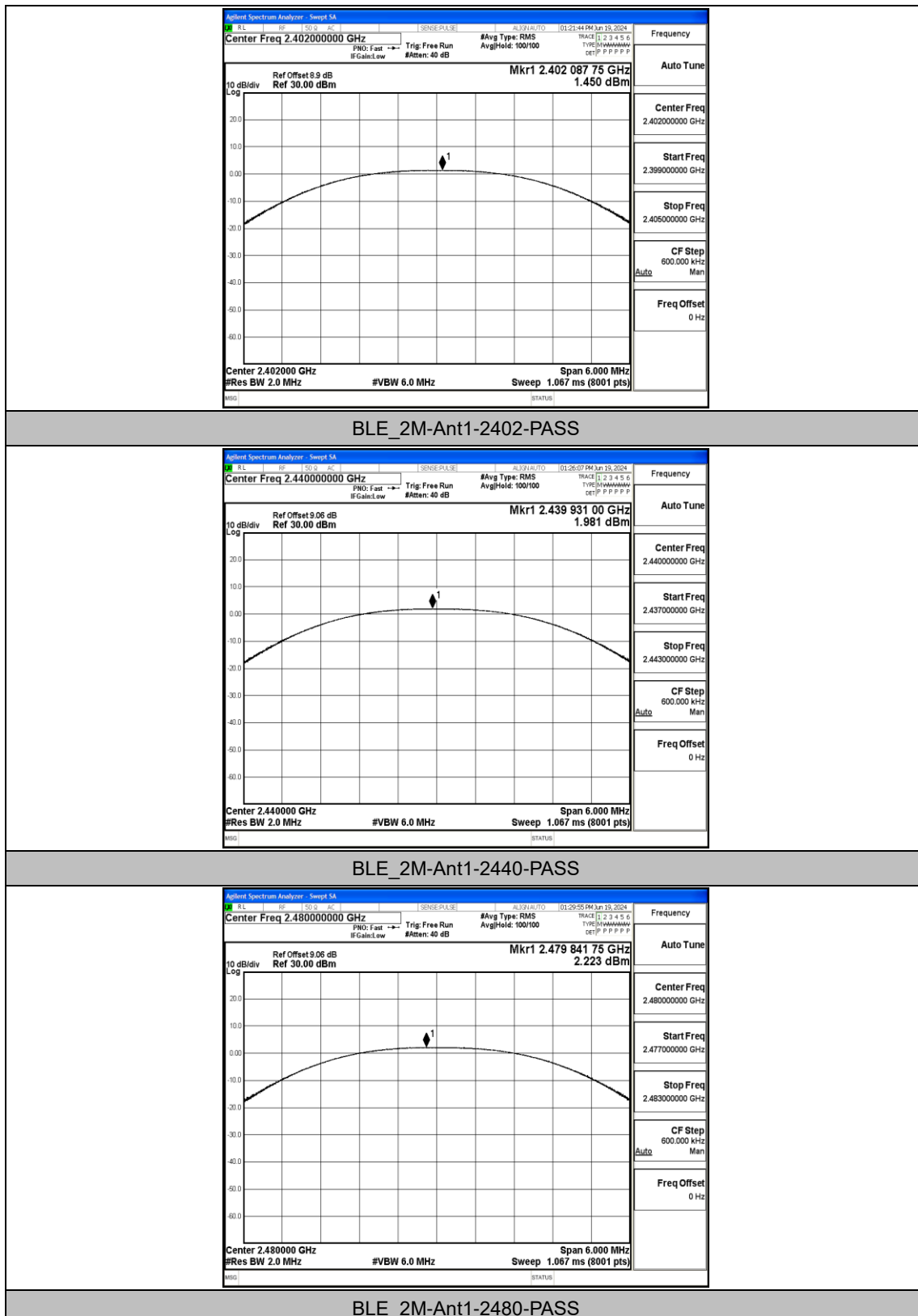


Appendix C: Maximum peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_2M	Ant1	2402	1.45	≤30	PASS
BLE_2M	Ant1	2440	1.98	≤30	PASS
BLE_2M	Ant1	2480	2.22	≤30	PASS

Test Graphs Peak

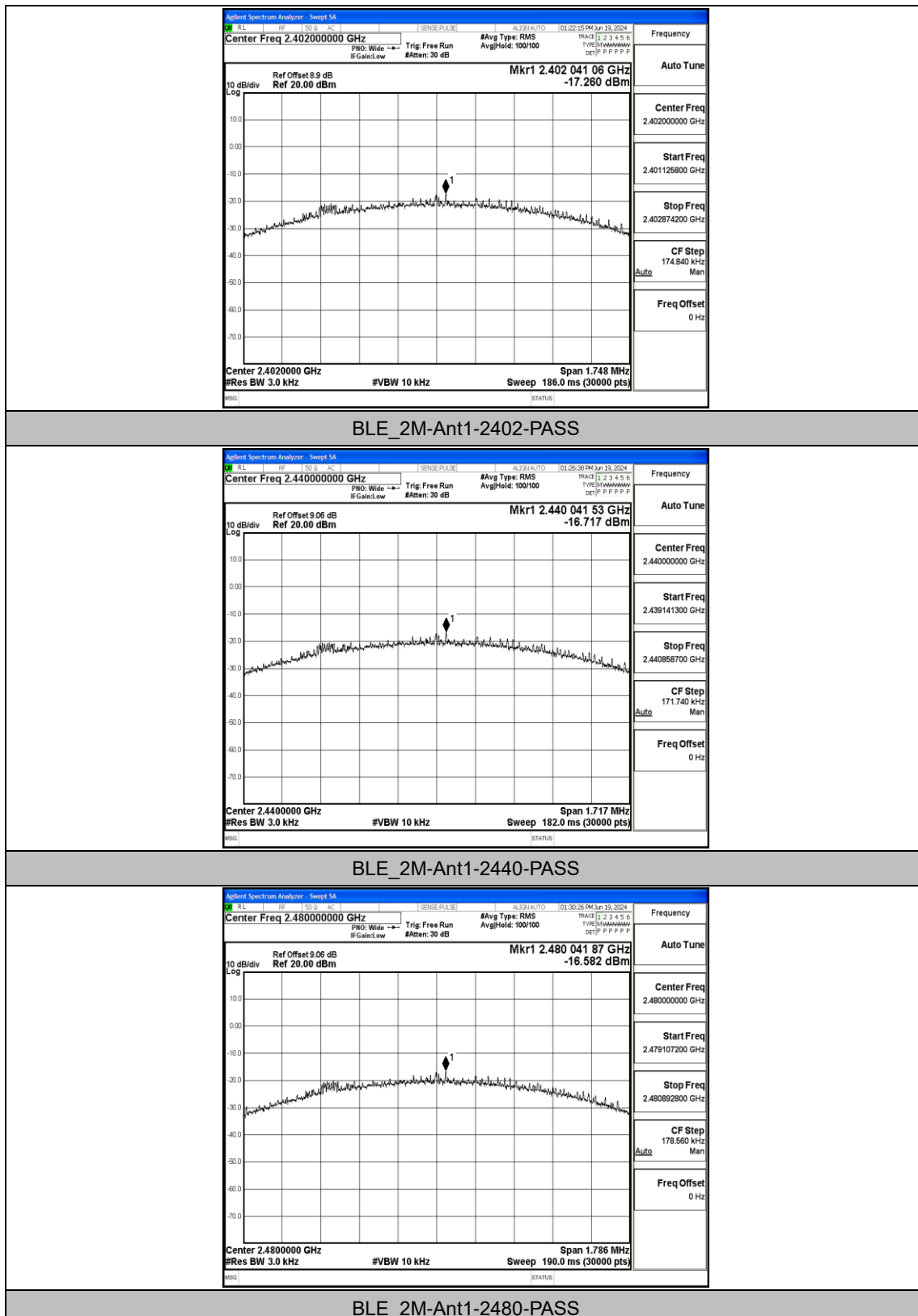


Appendix D: Maximum peak power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_2M	Ant1	2402	-17.26	≤8.00	PASS
BLE_2M	Ant1	2440	-16.72	≤8.00	PASS
BLE_2M	Ant1	2480	-16.58	≤8.00	PASS

Test Graphs

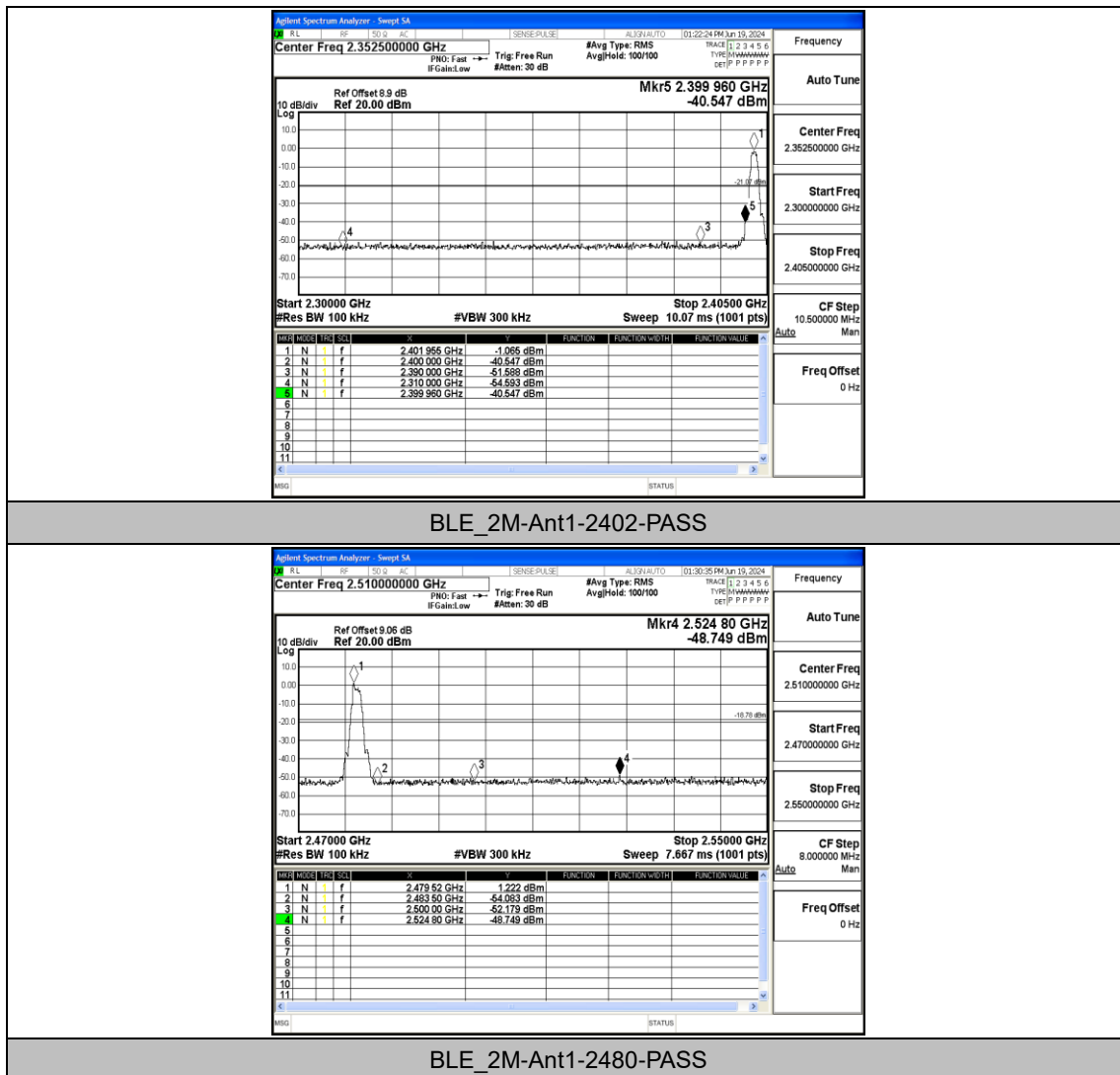


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	Low	2402	-1.07	-40.55	≤-21.07	PASS
BLE_2M	Ant1	High	2480	1.22	-48.75	≤-18.78	PASS

Test Graphs

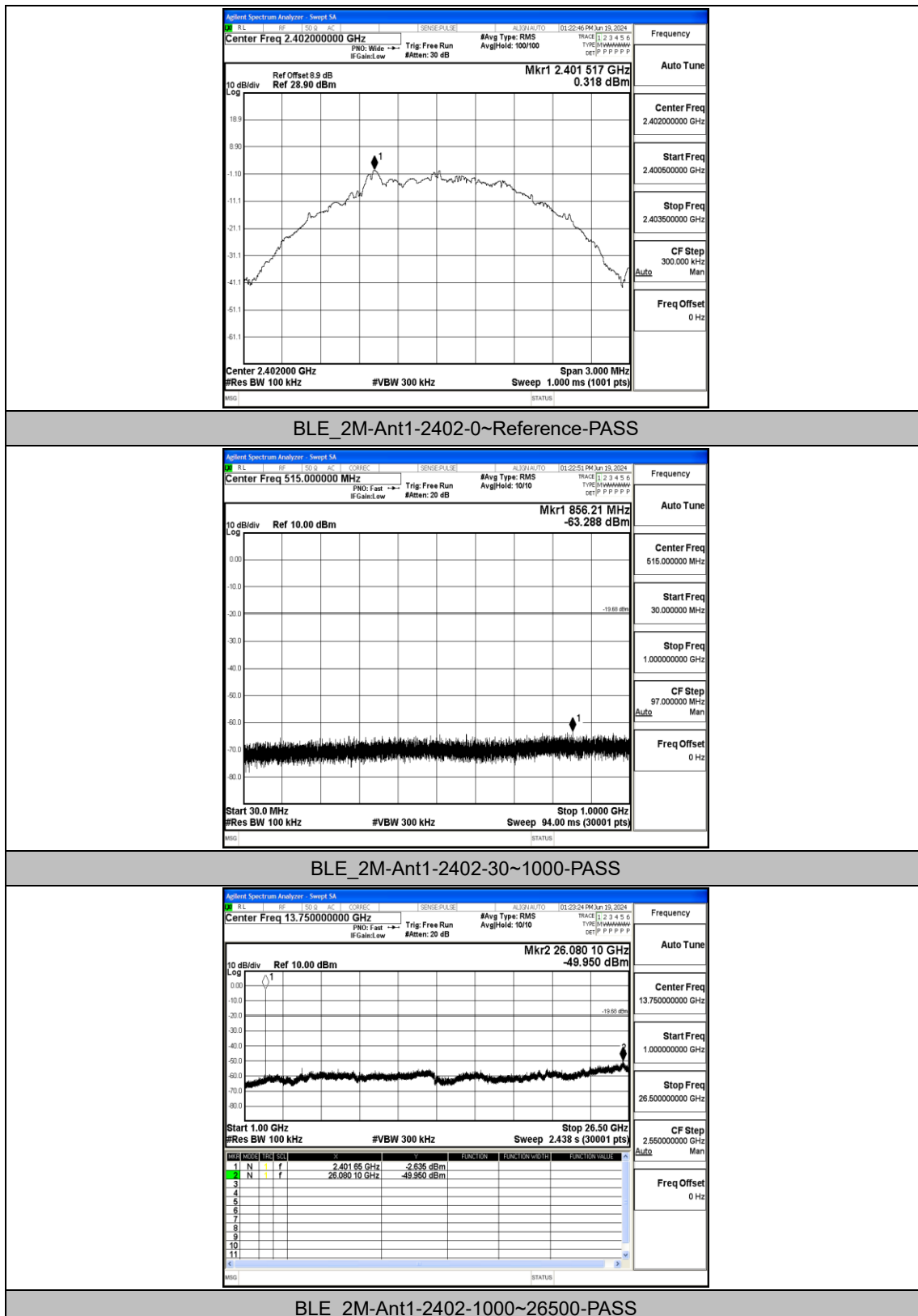


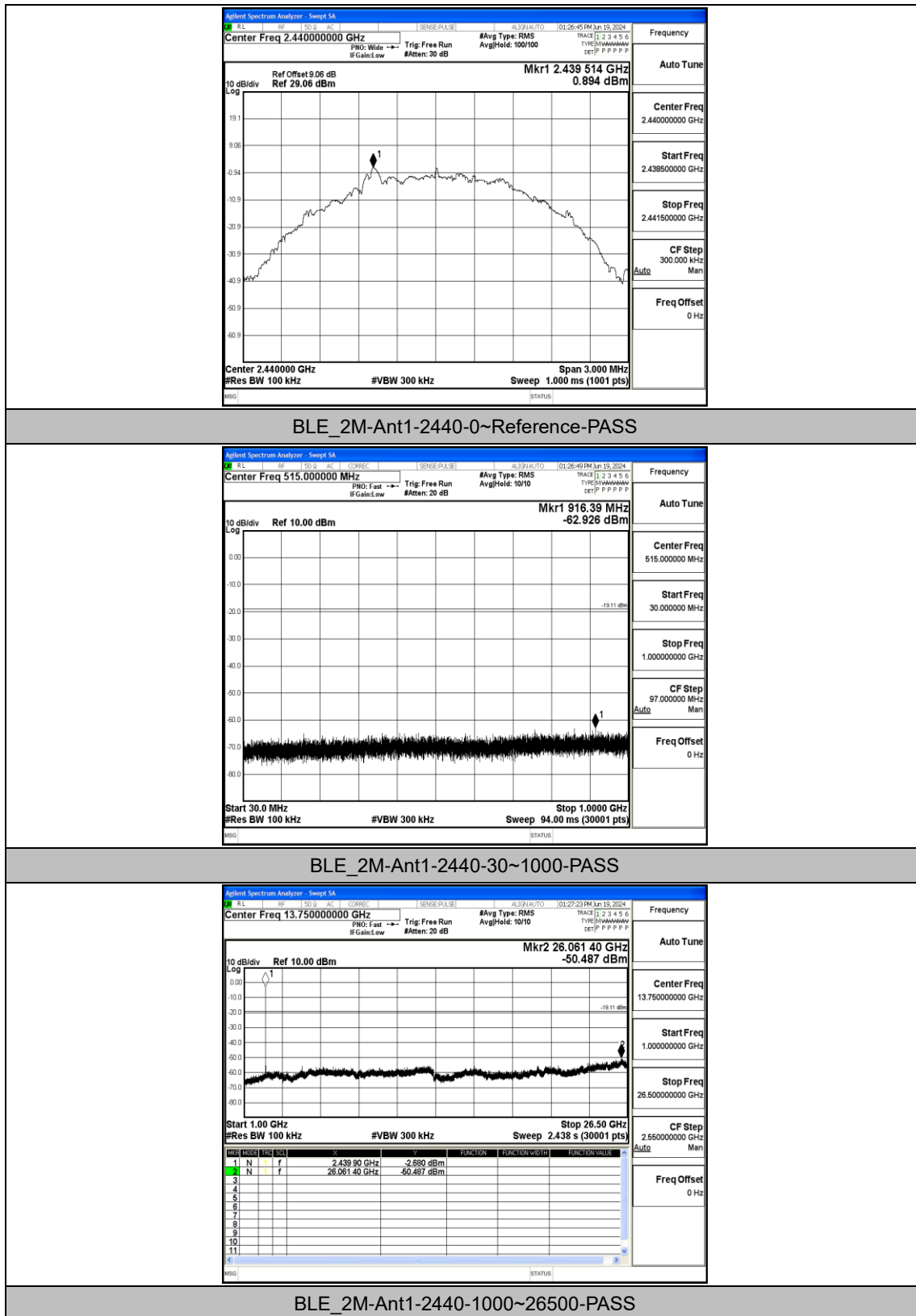
Appendix F: Conducted Spurious Emission

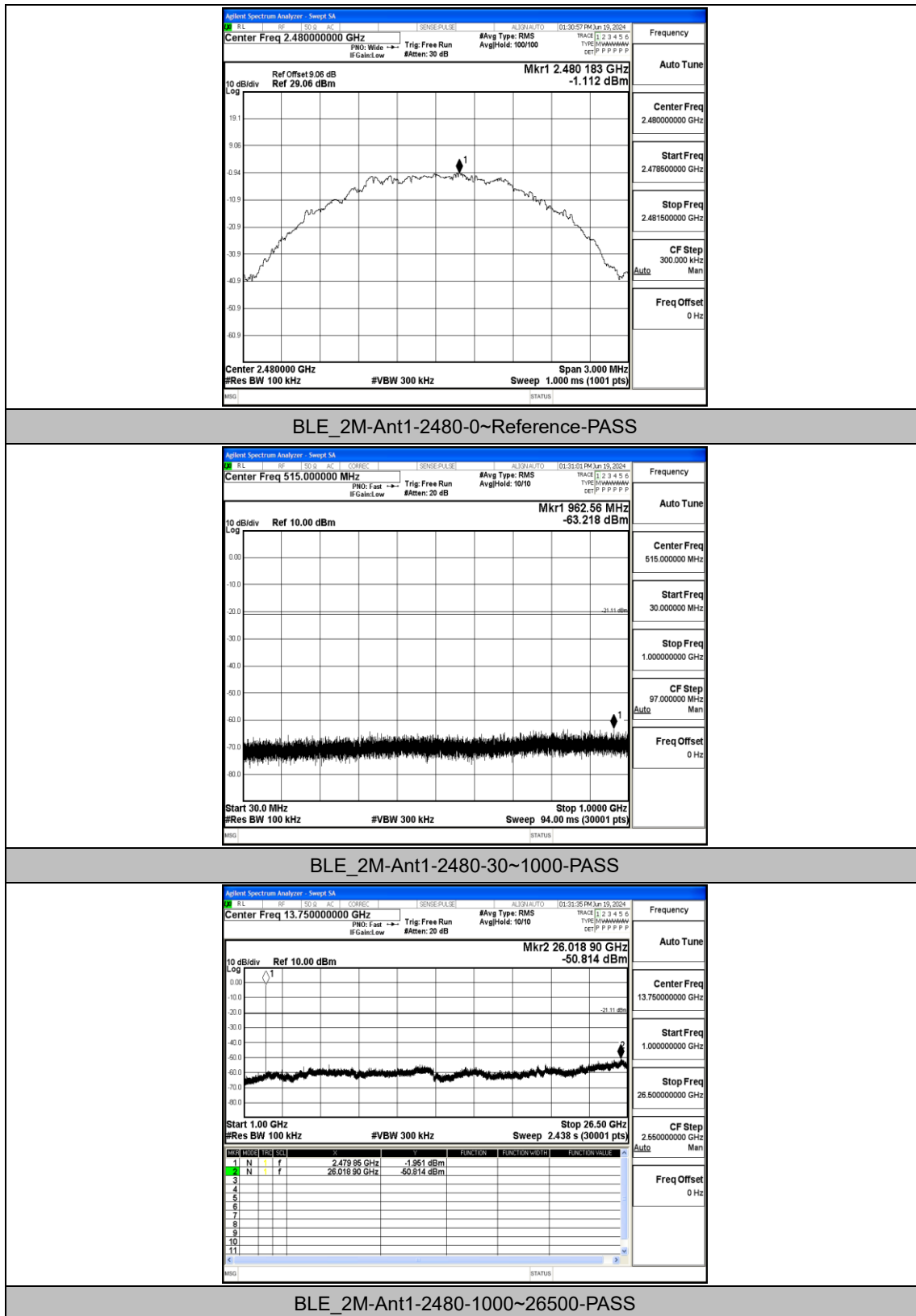
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_2M	Ant1	2402	0~Reference	0.32	0.32	---	PASS
BLE_2M	Ant1	2402	30~1000	0.32	-63.29	≤-19.68	PASS
BLE_2M	Ant1	2402	1000~26500	0.32	-49.95	≤-19.68	PASS
BLE_2M	Ant1	2440	0~Reference	0.89	0.89	---	PASS
BLE_2M	Ant1	2440	30~1000	0.89	-62.93	≤-19.11	PASS
BLE_2M	Ant1	2440	1000~26500	0.89	-50.49	≤-19.11	PASS
BLE_2M	Ant1	2480	0~Reference	-1.11	-1.11	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.11	-63.22	≤-21.11	PASS
BLE_2M	Ant1	2480	1000~26500	-1.11	-50.81	≤-21.11	PASS

Test Graphs







Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_2M	Ant1	2402	1.08	1.25	86.40	0.63
BLE_2M	Ant1	2440	1.08	1.25	86.40	0.63
BLE_2M	Ant1	2480	1.08	1.25	86.40	0.63

Test Graphs

