

Appendix: Bluetooth LE

Contents

Appendix A: DTS Bandwidth..... 3

 Test Result.....3

 Test Graphs.....4

Appendix B: Occupied Channel Bandwidth..... 6

 Test Result.....6

 Test Graphs.....7

Appendix C: Maximum conducted output power..... 9

 Test Result Peak..... 9

 Test Graphs Peak.....10

Appendix D: Maximum power spectral density..... 12

 Test Result.....12

 Test Graphs.....13

Appendix E: Band edge measurements..... 15

 Test Result.....15

 Test Graphs.....16

Appendix F: Conducted Spurious Emission..... 17

 Test Result.....17

 Test Graphs.....18

Appendix G: Duty Cycle..... 23

 Test Result.....23

 Test Graphs.....24

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.644	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.648	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.668	2480.332	0.5	PASS

Test Graphs

BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480



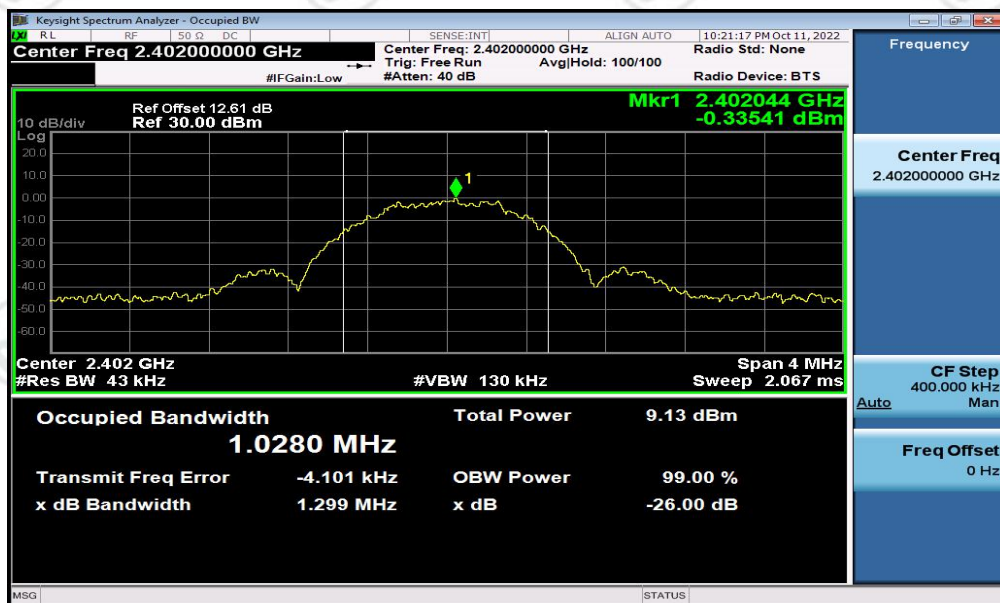
Appendix B: Occupied Channel Bandwidth

Test Result

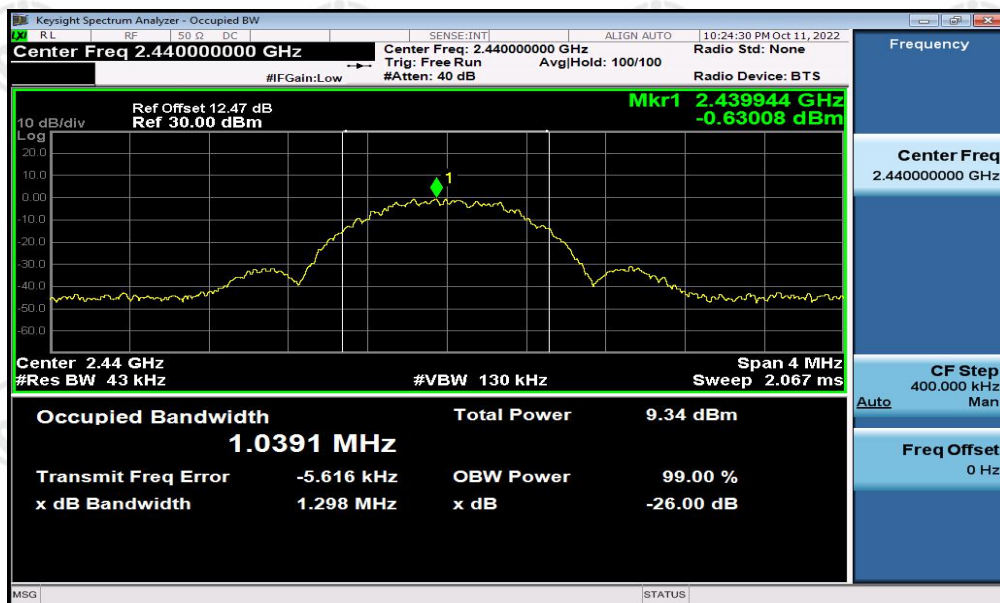
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.0280	2401.4819	2402.5099	---	---
BLE_1M	Ant1	2440	1.0391	2439.4748	2440.5139	---	---
BLE_1M	Ant1	2480	1.0315	2479.4827	2480.5142	---	---

Test Graphs

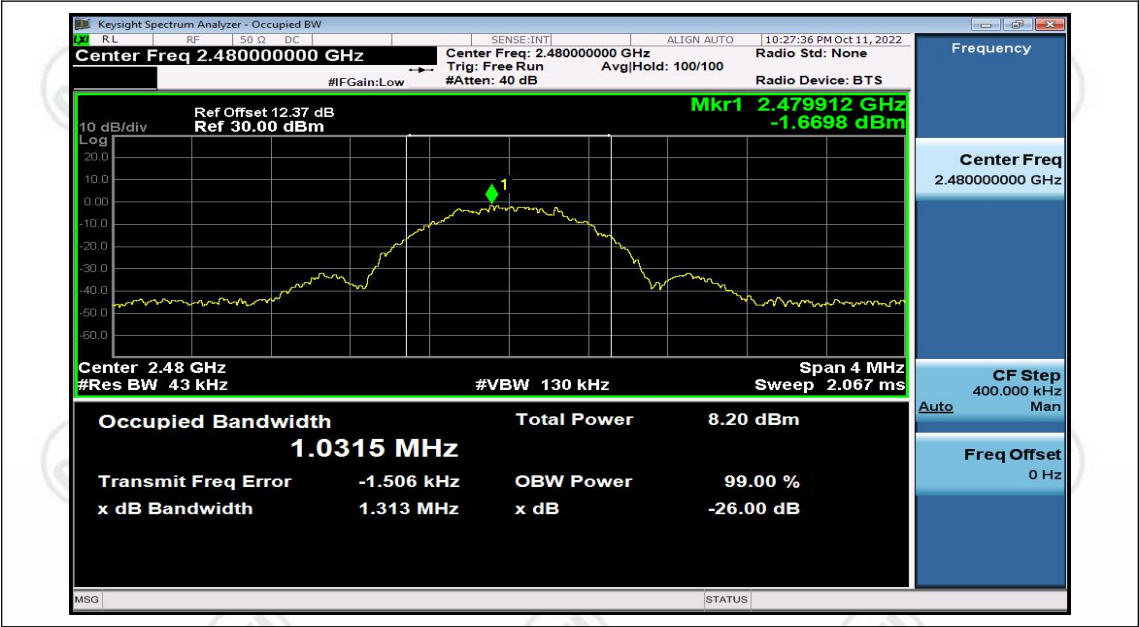
BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

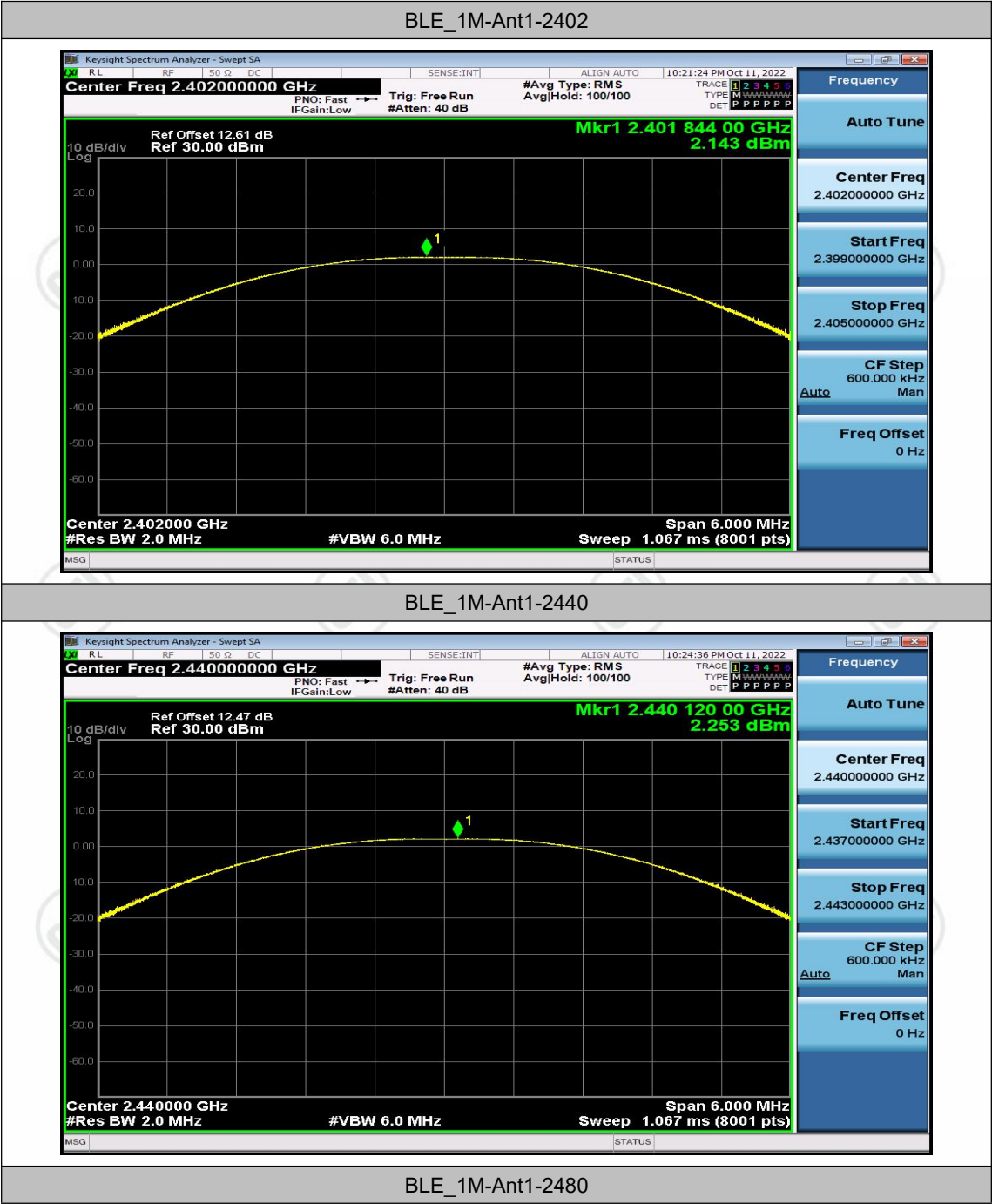


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.14	≤30	PASS
BLE_1M	Ant1	2440	2.25	≤30	PASS
BLE_1M	Ant1	2480	1.25	≤30	PASS

Test Graphs Peak



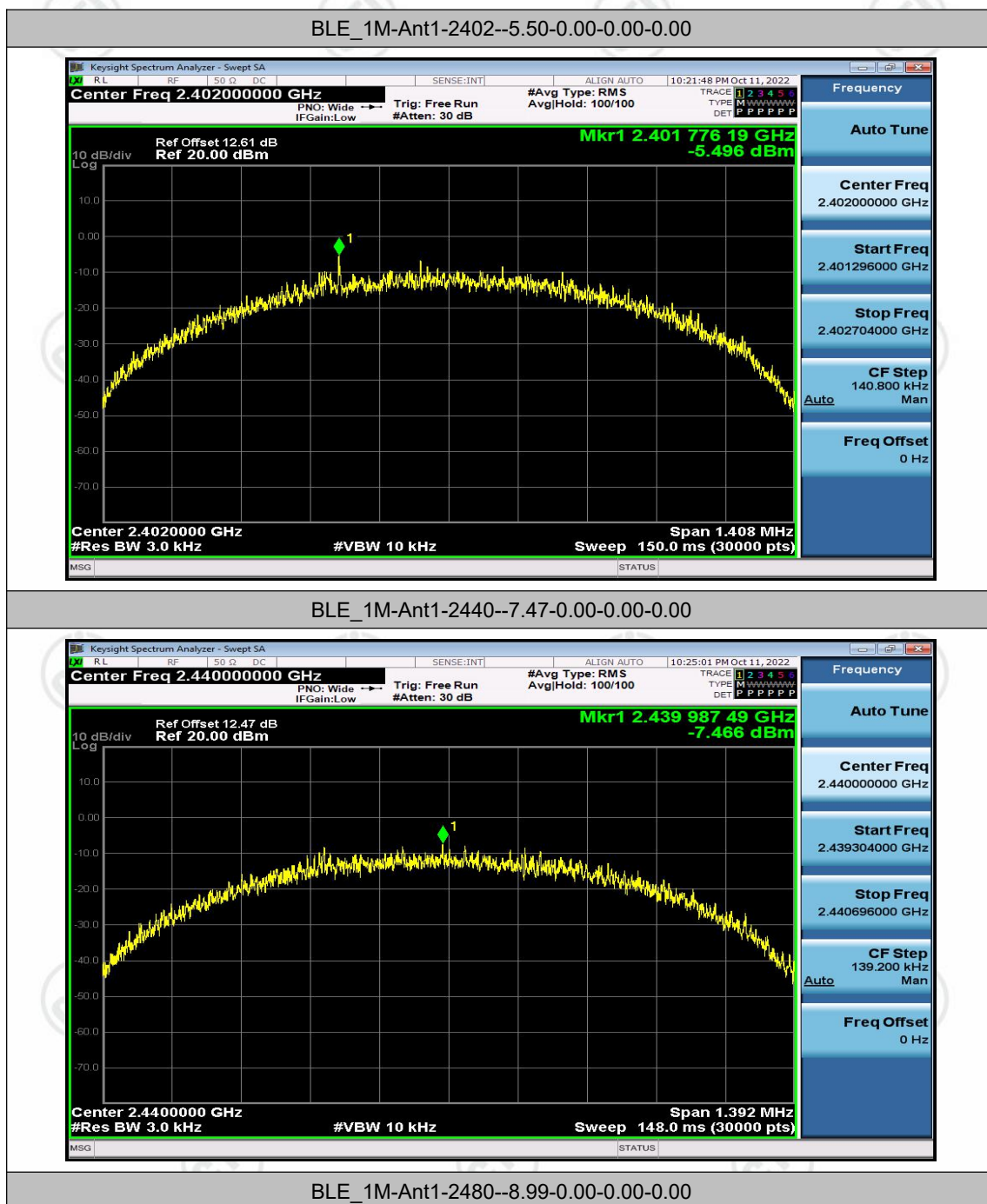


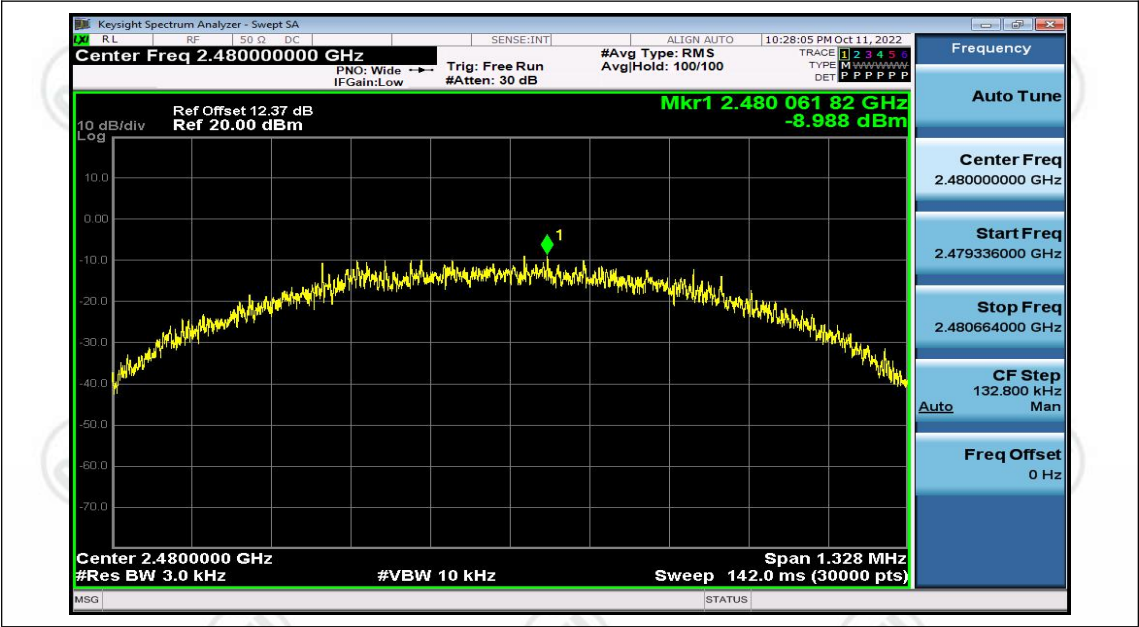
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.5	≤8.00	PASS
BLE_1M	Ant1	2440	-7.47	≤8.00	PASS
BLE_1M	Ant1	2480	-8.99	≤8.00	PASS

Test Graphs



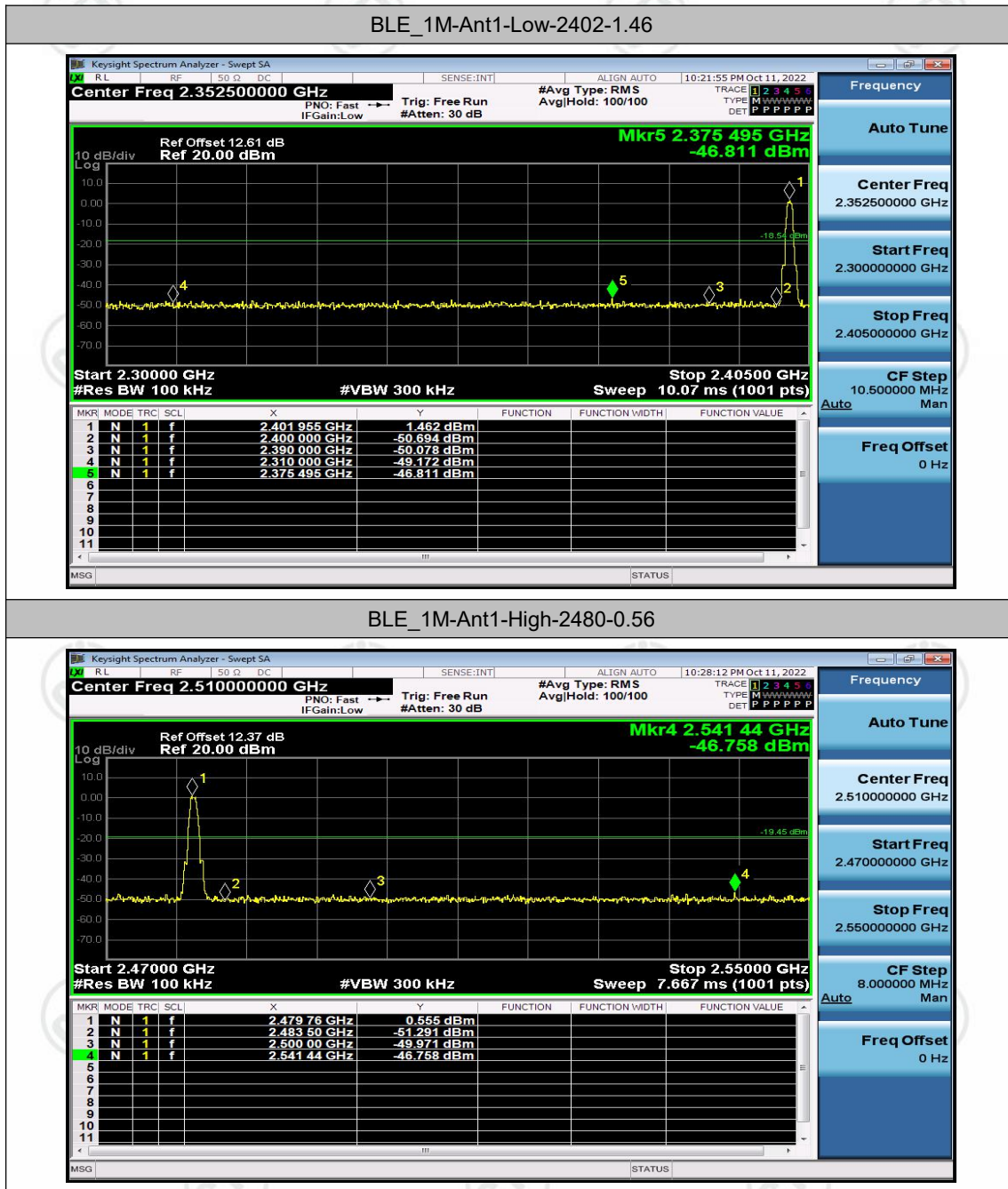


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.46	-46.81	≤-18.54	PASS
BLE_1M	Ant1	High	2480	0.56	-46.76	≤-19.45	PASS

Test Graphs

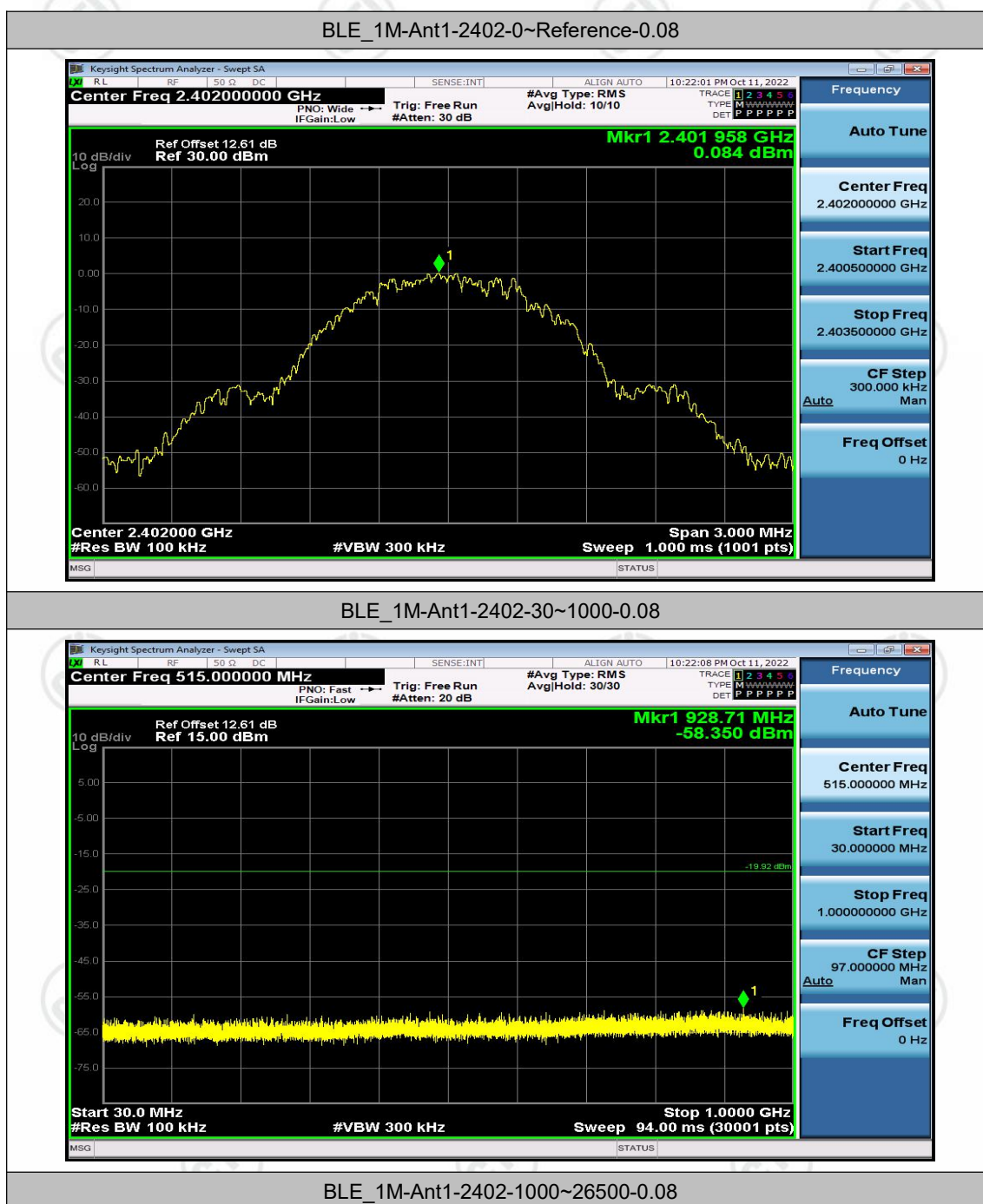


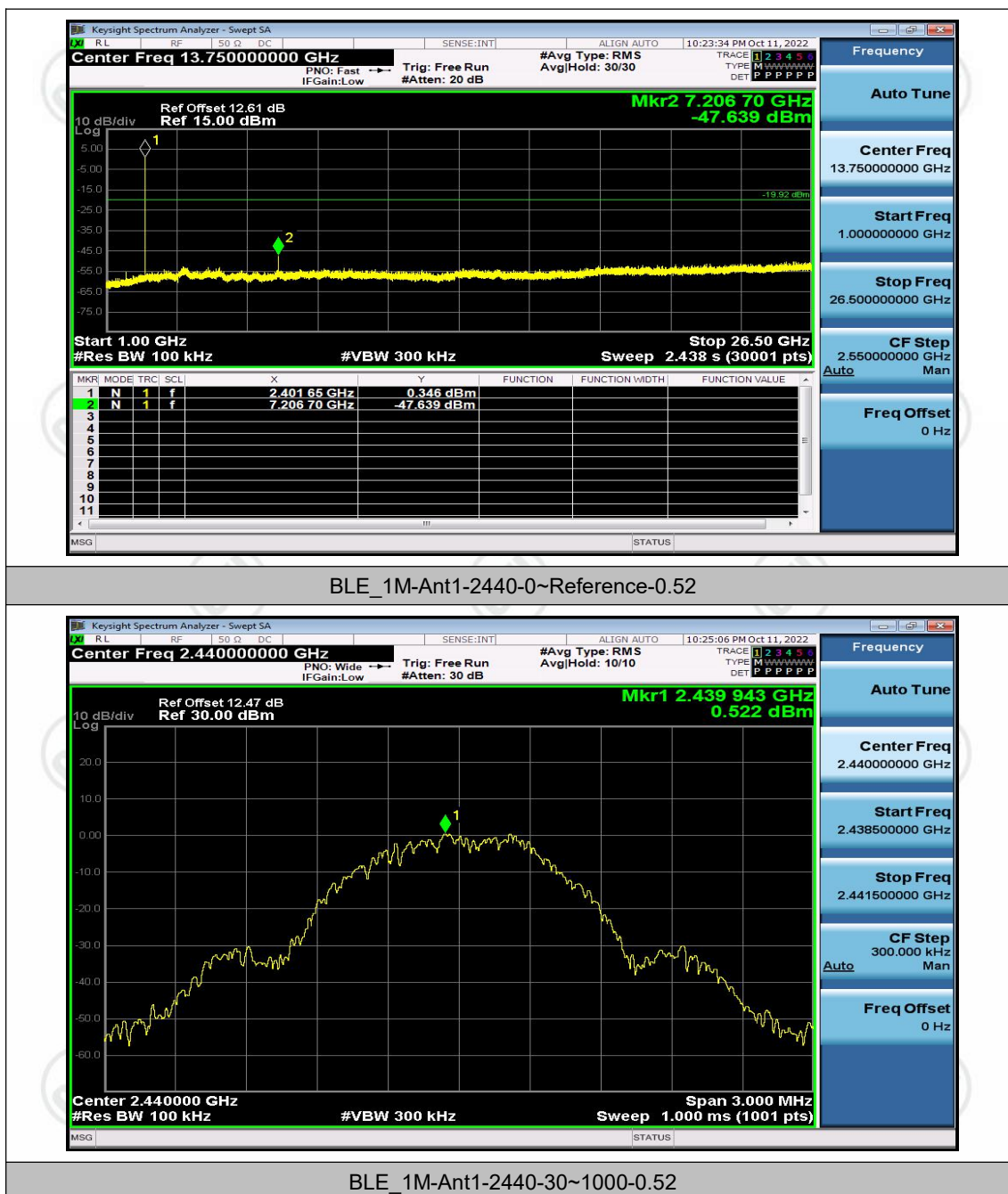
Appendix F: Conducted Spurious Emission

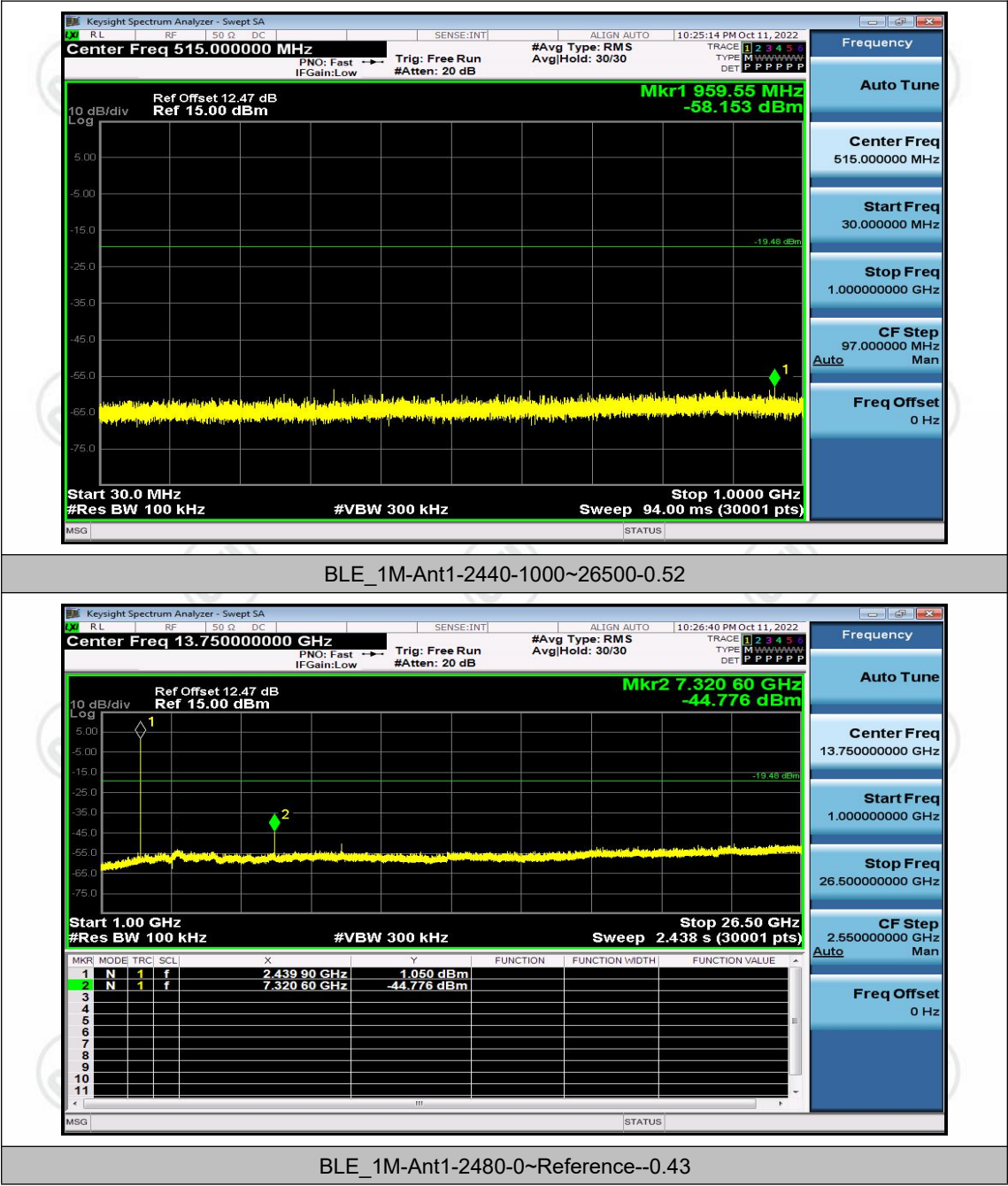
Test Result

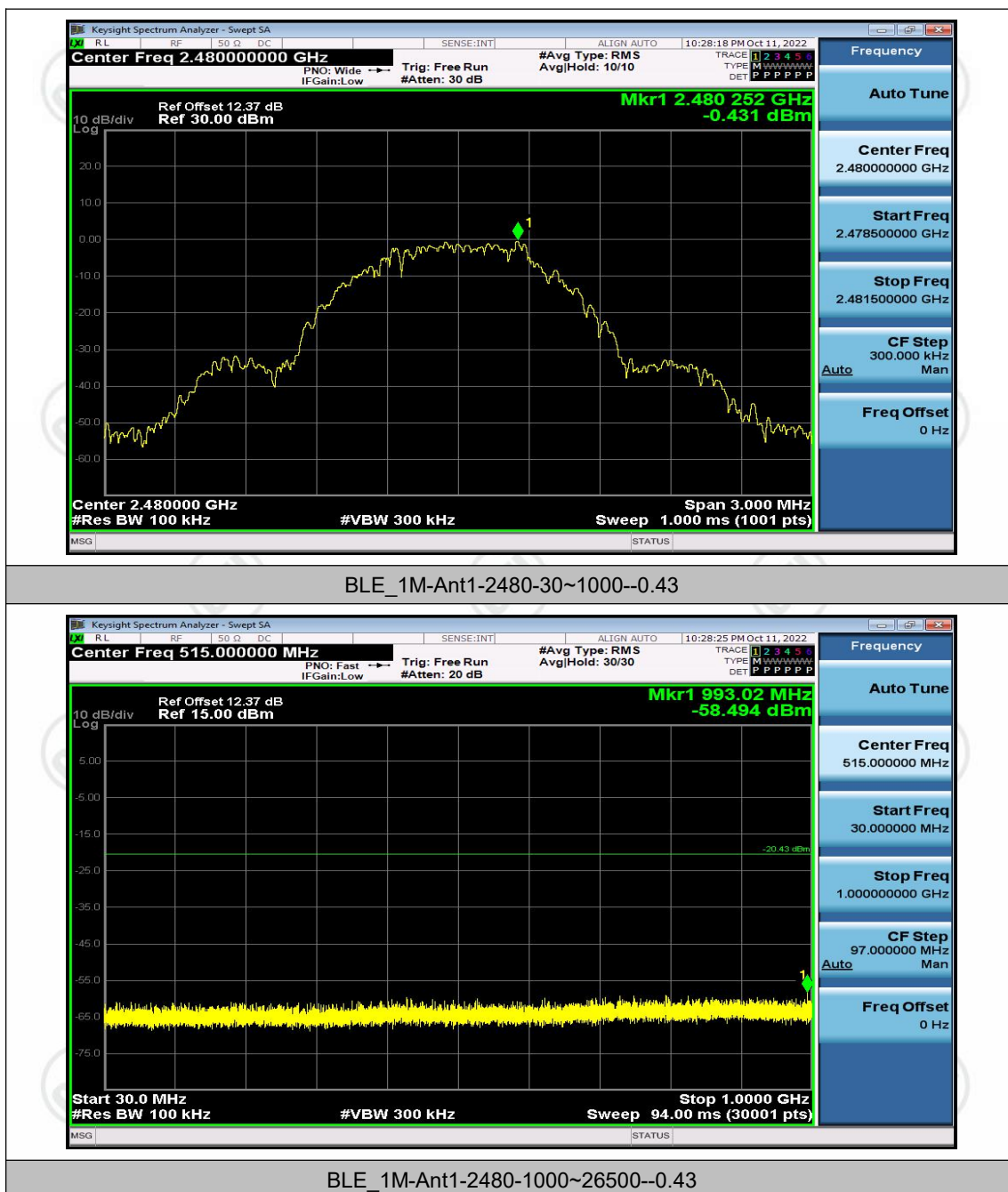
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.08	0.08	---	PASS
BLE_1M	Ant1	2402	30~1000	---	-58.35	≤-19.92	PASS
BLE_1M	Ant1	2402	1000~26500	---	-47.64	≤-19.92	PASS
BLE_1M	Ant1	2440	0~Reference	0.52	0.52	---	PASS
BLE_1M	Ant1	2440	30~1000	---	-58.15	≤-19.48	PASS
BLE_1M	Ant1	2440	1000~26500	---	-44.78	≤-19.48	PASS
BLE_1M	Ant1	2480	0~Reference	-0.43	-0.43	---	PASS
BLE_1M	Ant1	2480	30~1000	---	-58.49	≤-20.43	PASS
BLE_1M	Ant1	2480	1000~26500	---	-43.81	≤-20.43	PASS

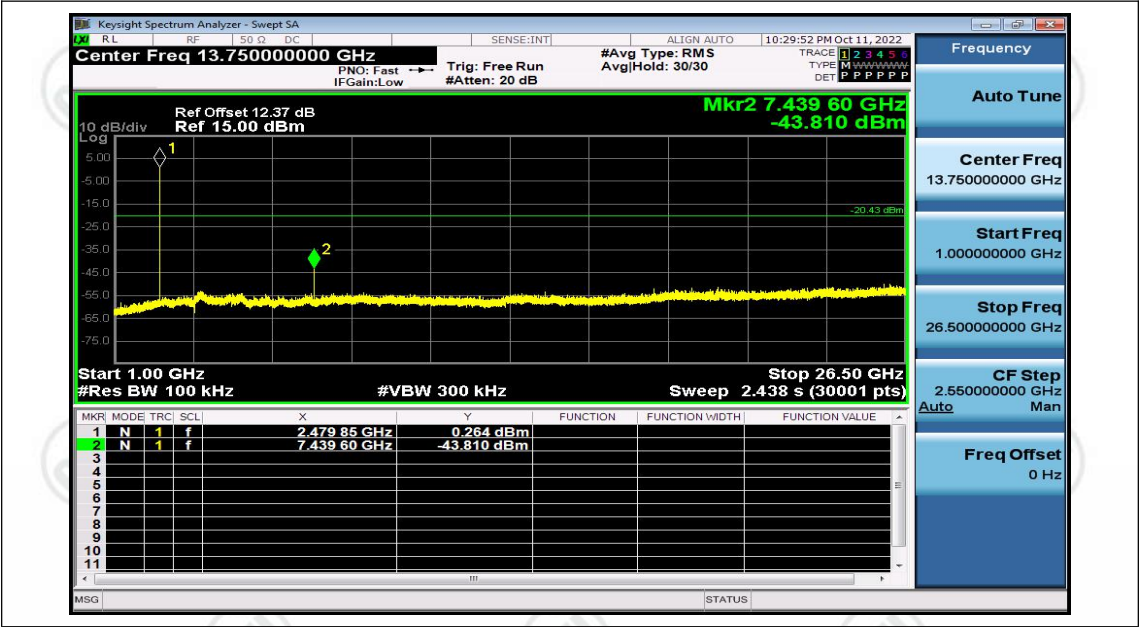
Test Graphs









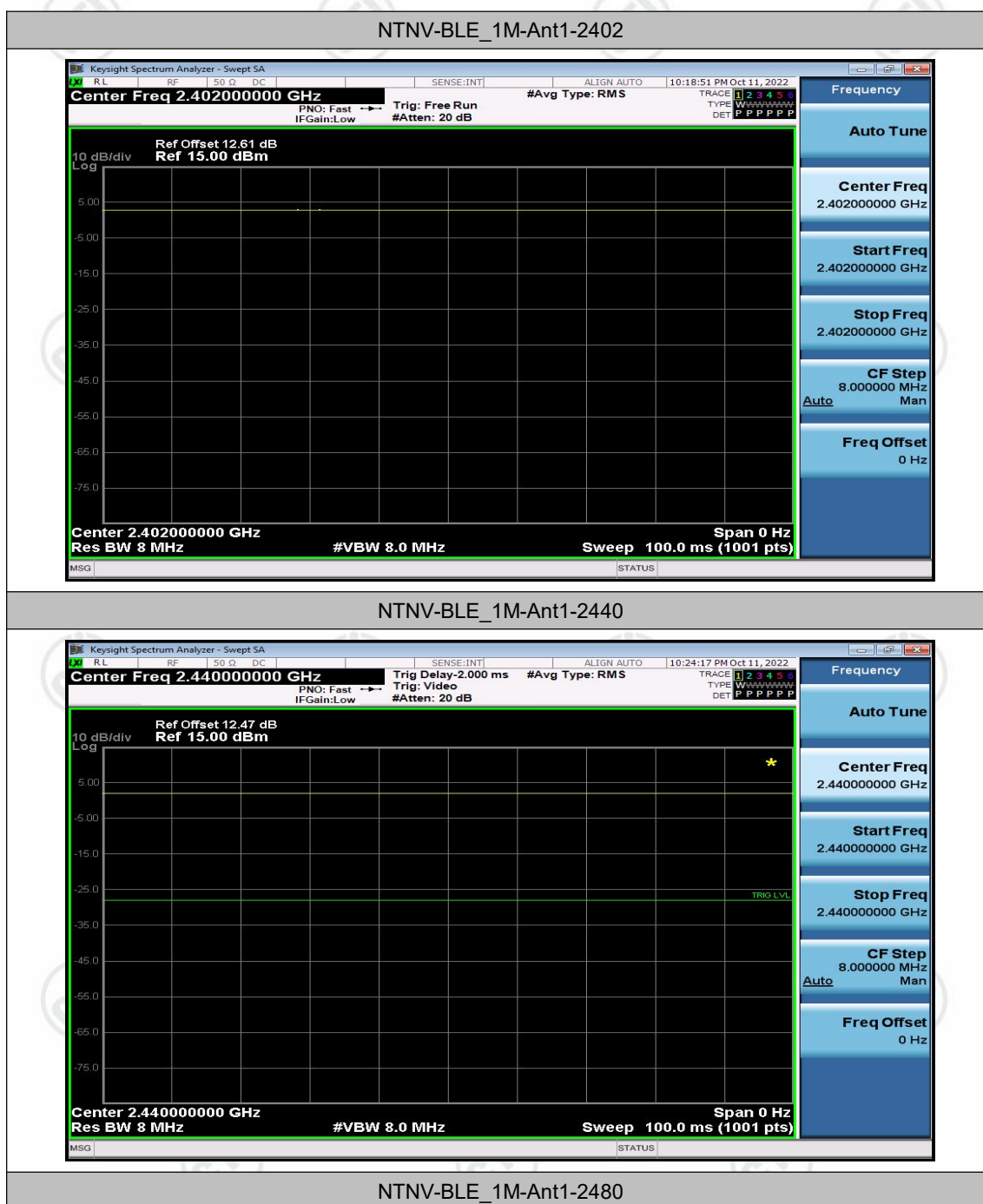


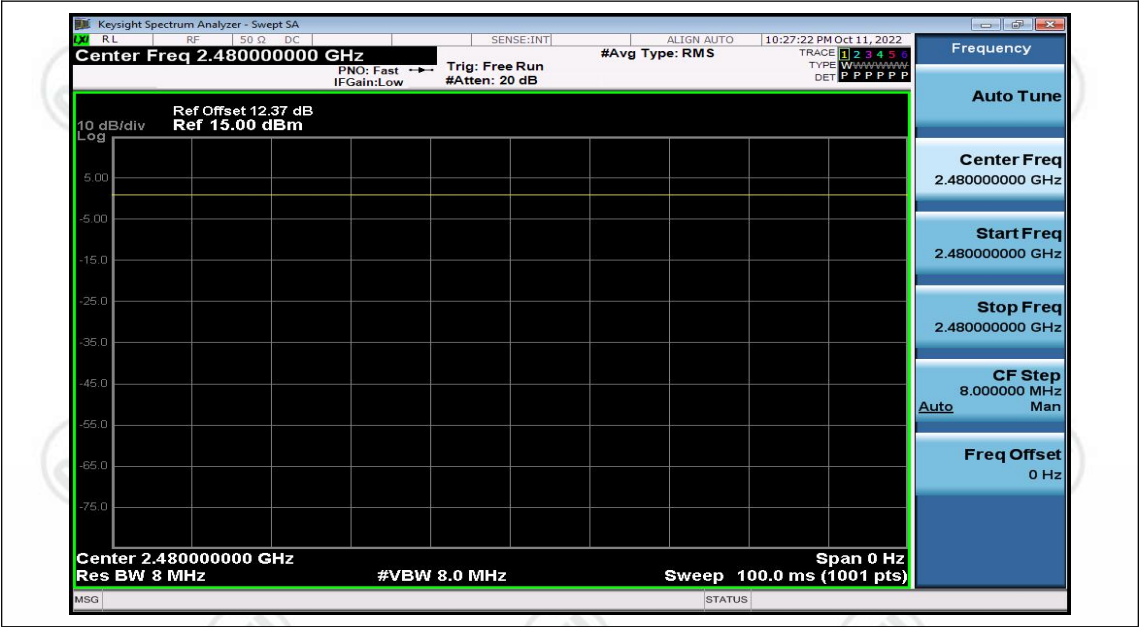
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	NaN
BLE_1M	Ant1	2440	0.00	0.00	100	NaN
BLE_1M	Ant1	2480	0.00	0.00	100	NaN

Test Graphs





*** End of Report ***