

Appendix Test Data

Report No.:	18220WC40073701	Test Sample No.:	1-2-2
Start Test Date:	2024.04.16	Finish Test Date:	2024.04.17
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.584	2401.712	2402.296	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.668	2440.304	0.5	PASS
BLE_1M	Ant1	2480	0.644	2479.656	2480.300	0.5	PASS
BLE_2M	Ant1	2402	1.056	2401.452	2402.508	0.5	PASS
BLE_2M	Ant1	2440	1.068	2439.468	2440.536	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.444	2480.568	0.5	PASS



Test Graphs



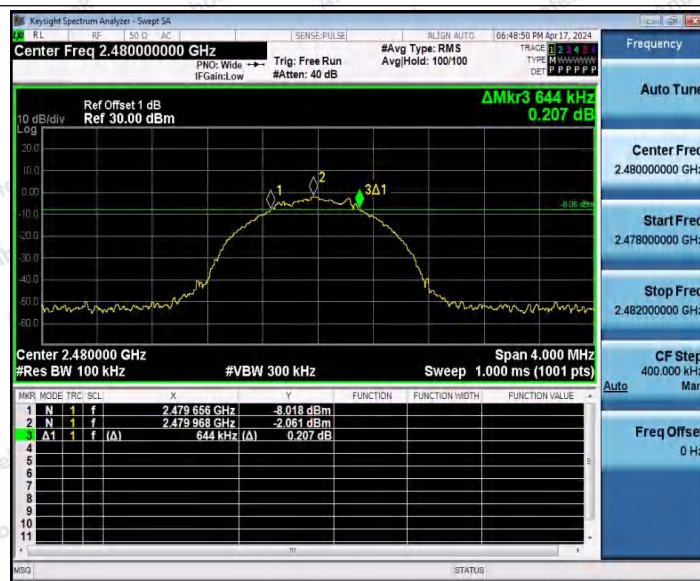
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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



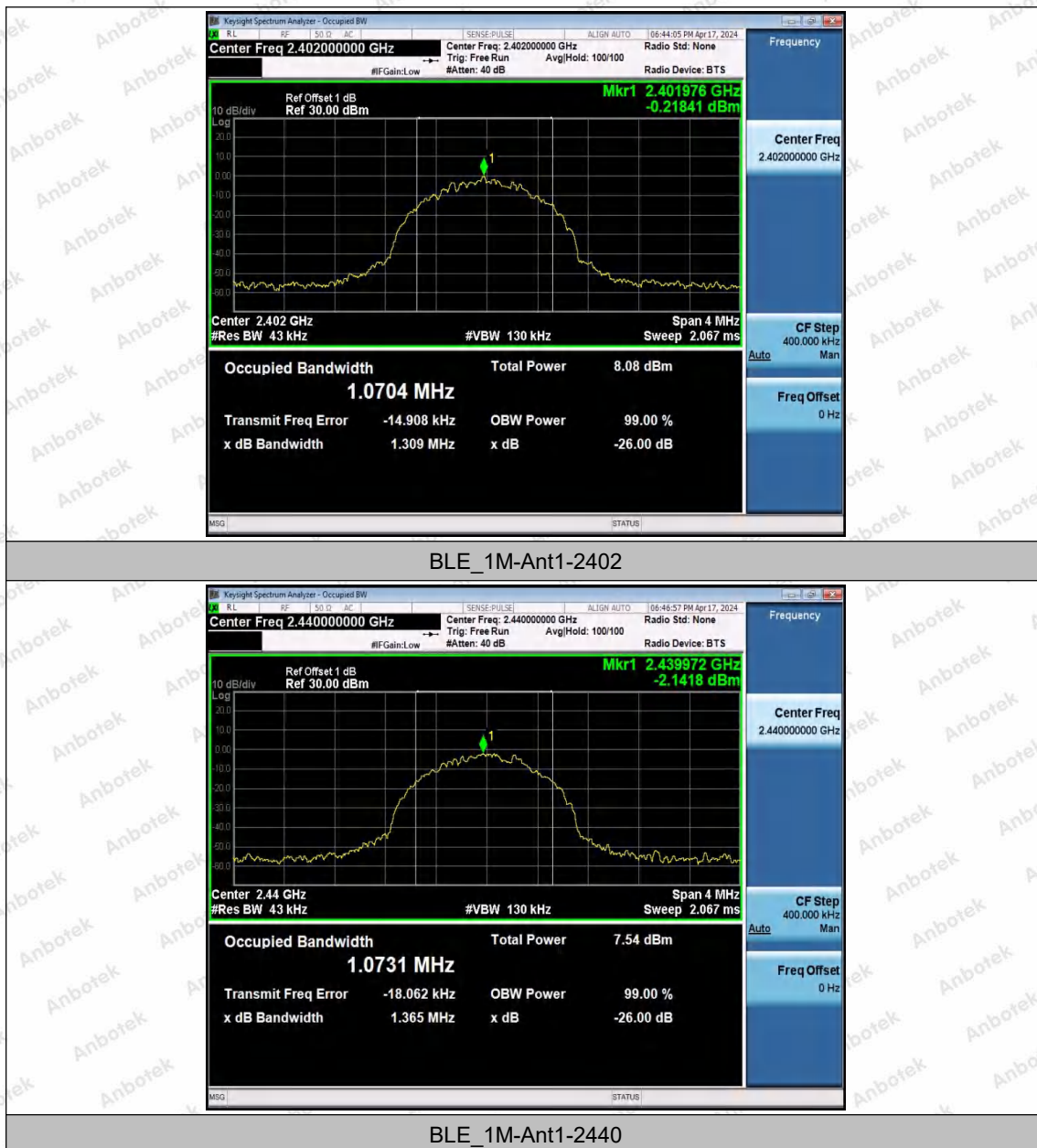
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0704	2401.4499	2402.5203	---	---
BLE_1M	Ant1	2440	1.0731	2439.4454	2440.5185	---	---
BLE_1M	Ant1	2480	1.0702	2479.4447	2480.5149	---	---
BLE_2M	Ant1	2402	2.1185	2400.9340	2403.0525	---	---
BLE_2M	Ant1	2440	2.1352	2438.9204	2441.0556	---	---
BLE_2M	Ant1	2480	2.1054	2478.9396	2481.0450	---	---



Test Graphs



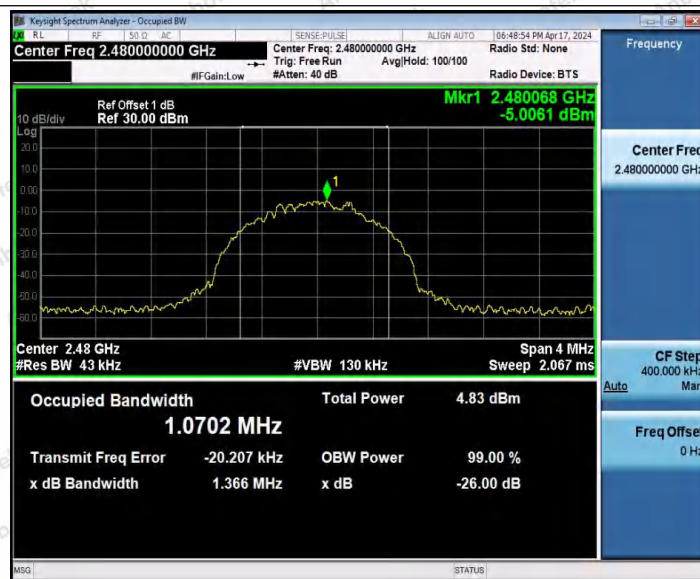
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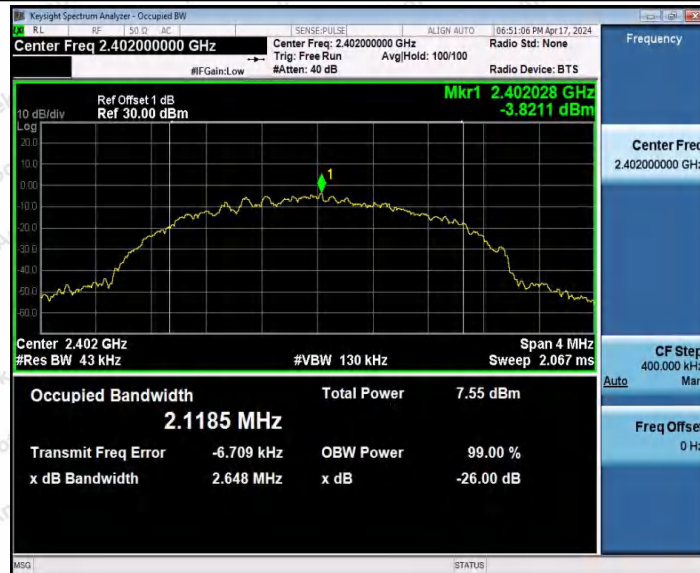


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BLE_1M-Ant1-2480



BLE_2M-Ant1-2402





BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

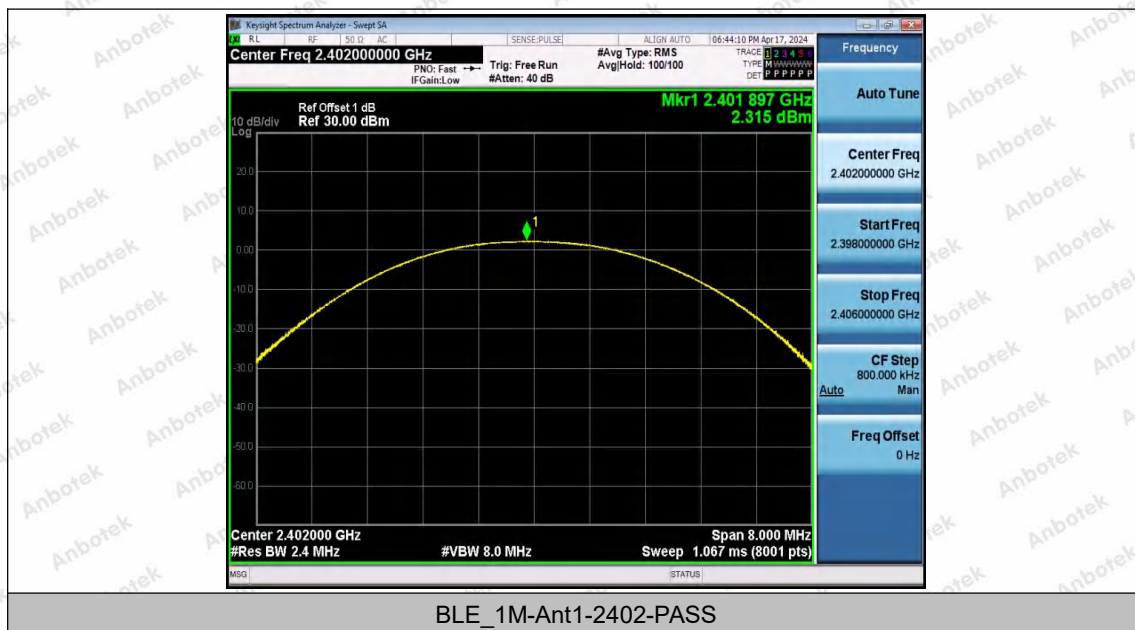


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.32	≤30	PASS
BLE_1M	Ant1	2440	1.91	≤30	PASS
BLE_1M	Ant1	2480	-0.81	≤30	PASS
BLE_2M	Ant1	2402	2.33	≤30	PASS
BLE_2M	Ant1	2440	1.75	≤30	PASS
BLE_2M	Ant1	2480	-1.08	≤30	PASS

Test Graphs Peak





BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

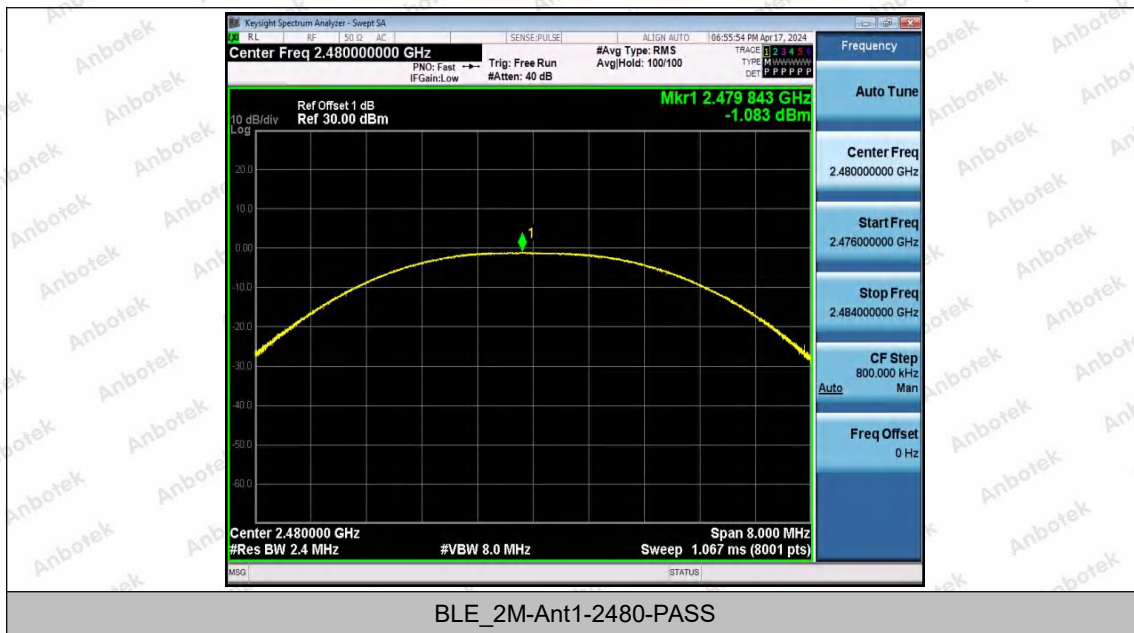
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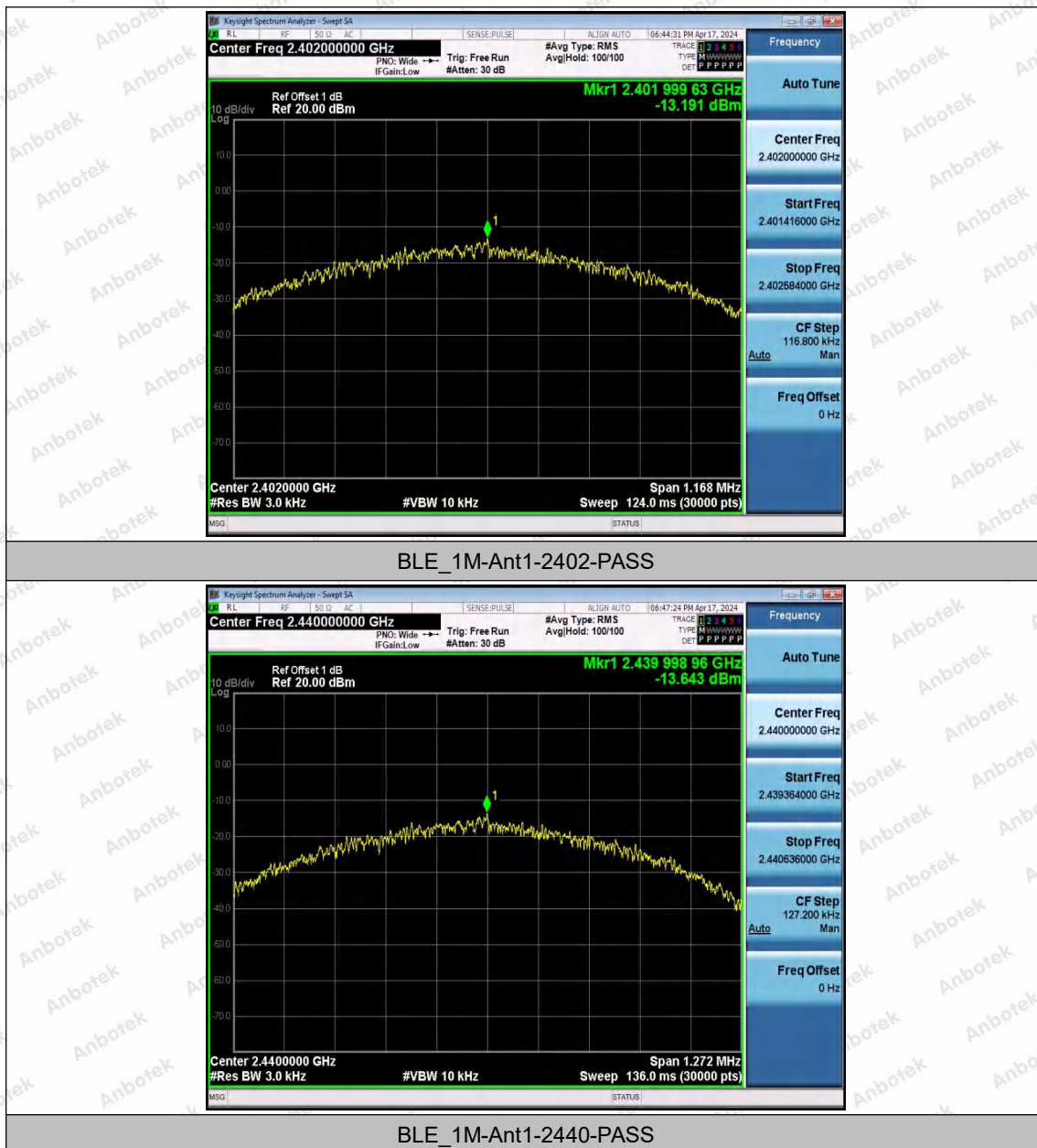
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.19	≤8.00	PASS
BLE_1M	Ant1	2440	-13.64	≤8.00	PASS
BLE_1M	Ant1	2480	-16.34	≤8.00	PASS
BLE_2M	Ant1	2402	-15.15	≤8.00	PASS
BLE_2M	Ant1	2440	-15.67	≤8.00	PASS
BLE_2M	Ant1	2480	-18.24	≤8.00	PASS



Test Graphs



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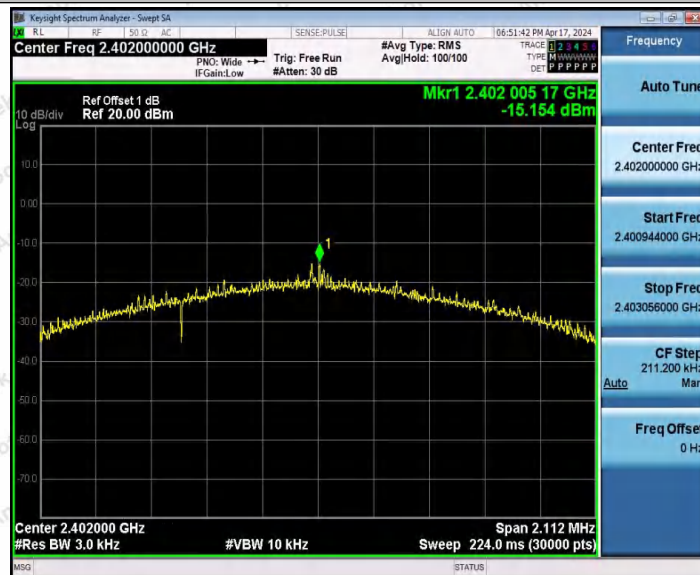


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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS





BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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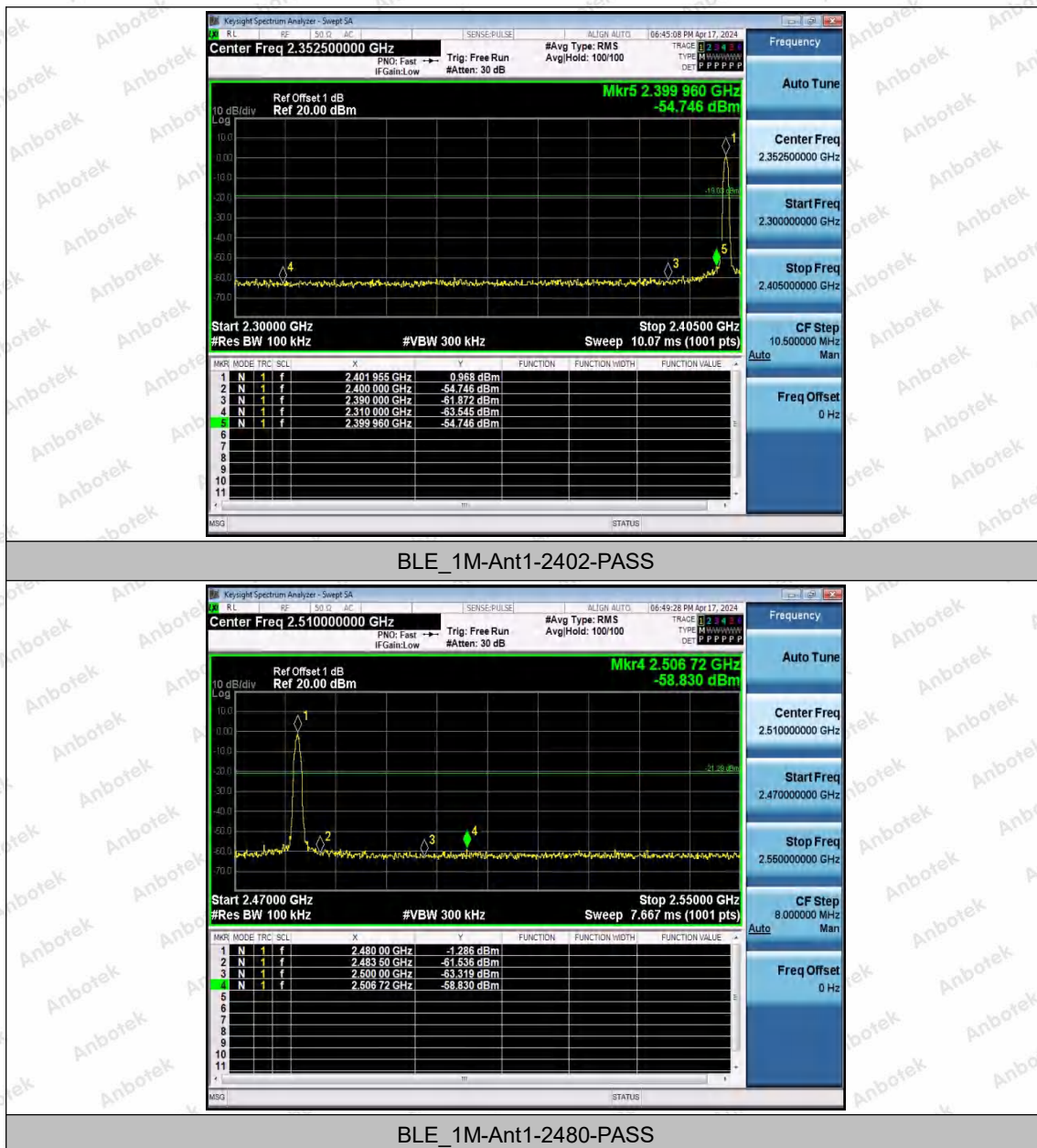
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.97	-54.75	≤-19.03	PASS
BLE_1M	Ant1	High	2480	-1.29	-58.83	≤-21.29	PASS
BLE_2M	Ant1	Low	2402	-0.98	-49.38	≤-20.98	PASS
BLE_2M	Ant1	High	2480	-1.17	-57.87	≤-21.17	PASS



Test Graphs



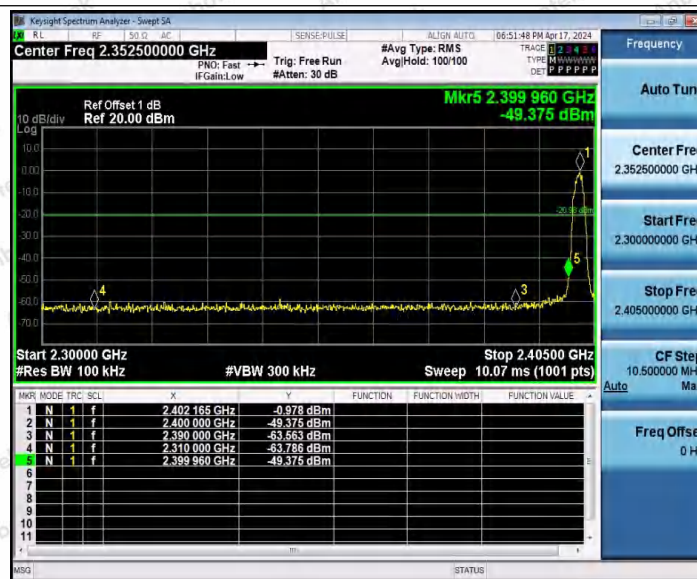
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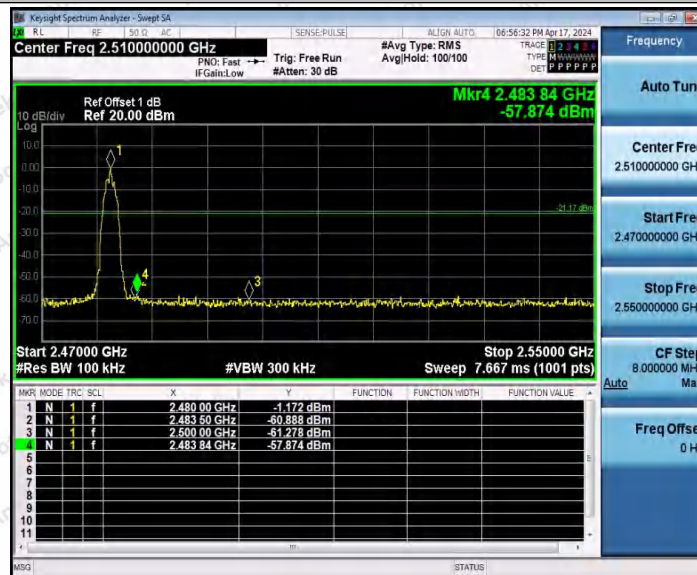


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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS



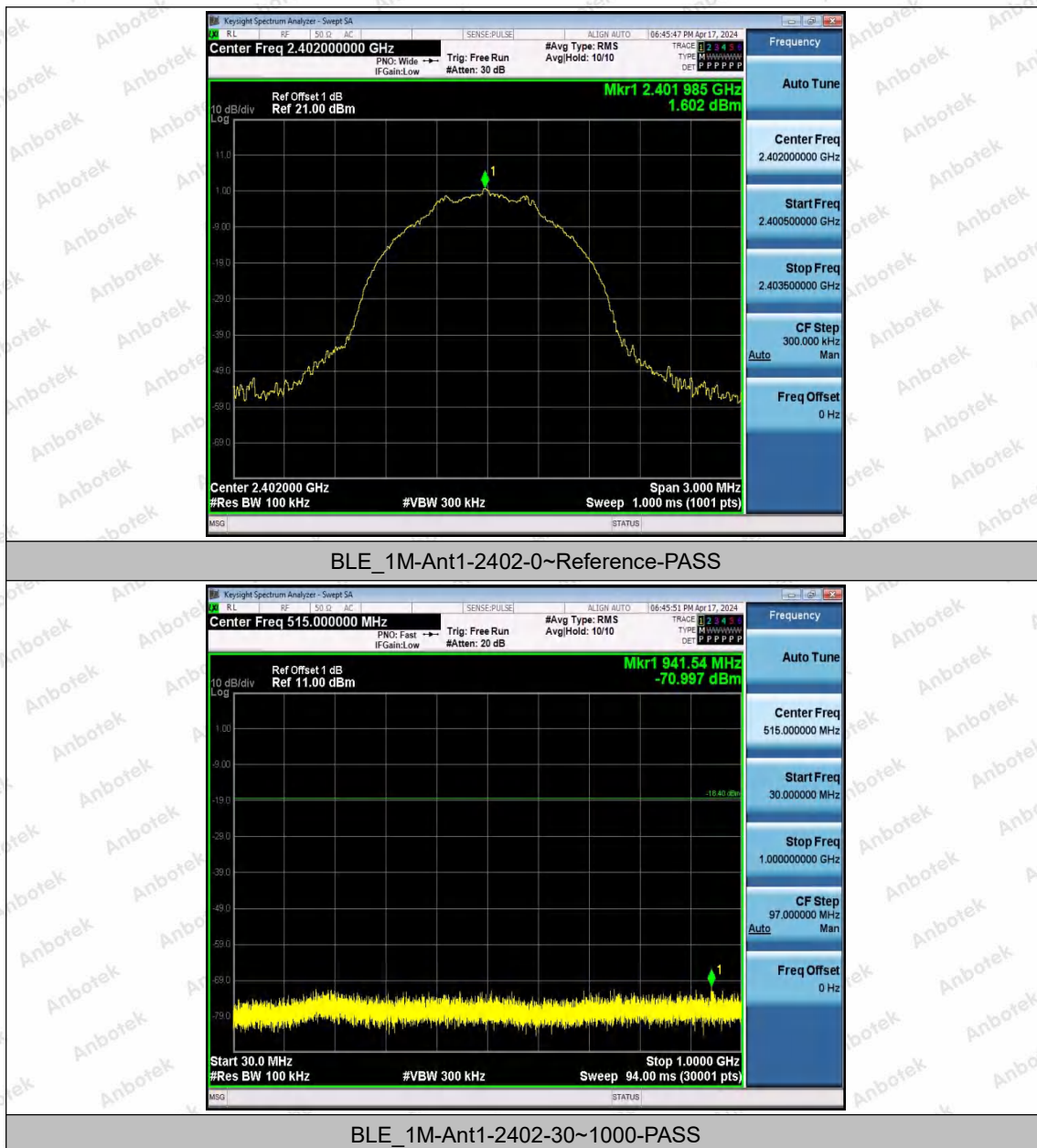
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.60	1.60	---	PASS
BLE_1M	Ant1	2402	30~1000	1.60	-71	≤-18.4	PASS
BLE_1M	Ant1	2402	1000~26500	1.60	-55.8	≤-18.4	PASS
BLE_1M	Ant1	2440	0~Reference	1.35	1.35	---	PASS
BLE_1M	Ant1	2440	30~1000	1.35	-71.14	≤-18.65	PASS
BLE_1M	Ant1	2440	1000~26500	1.35	-55.31	≤-18.65	PASS
BLE_1M	Ant1	2480	0~Reference	-1.51	-1.51	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.51	-71.01	≤-21.51	PASS
BLE_1M	Ant1	2480	1000~26500	-1.51	-55.47	≤-21.51	PASS
BLE_2M	Ant1	2402	0~Reference	1.73	1.73	---	PASS
BLE_2M	Ant1	2402	30~1000	1.73	-70.31	≤-18.27	PASS
BLE_2M	Ant1	2402	1000~26500	1.73	-54.96	≤-18.27	PASS
BLE_2M	Ant1	2440	0~Reference	1.45	1.45	---	PASS
BLE_2M	Ant1	2440	30~1000	1.45	-70.73	≤-18.55	PASS
BLE_2M	Ant1	2440	1000~26500	1.45	-55.3	≤-18.55	PASS
BLE_2M	Ant1	2480	0~Reference	-1.26	-1.26	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.26	-70.92	≤-21.26	PASS
BLE_2M	Ant1	2480	1000~26500	-1.26	-55.5	≤-21.26	PASS



Test Graphs



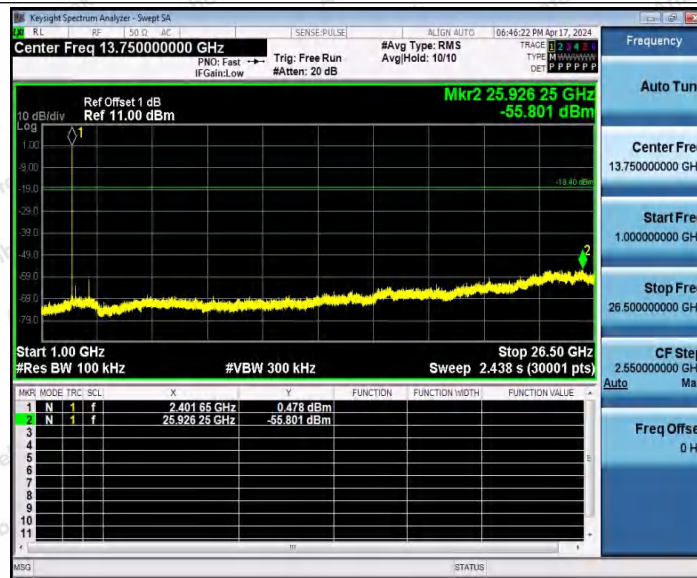
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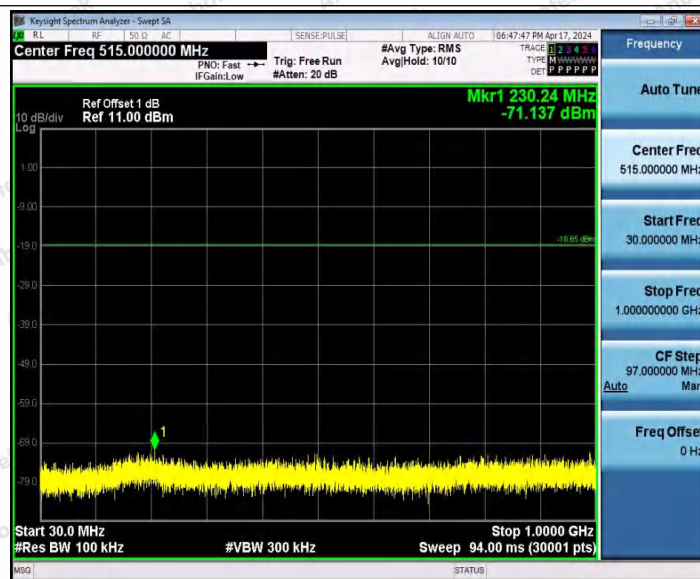


BLE_1M-Ant1-2402-1000~26500-PASS

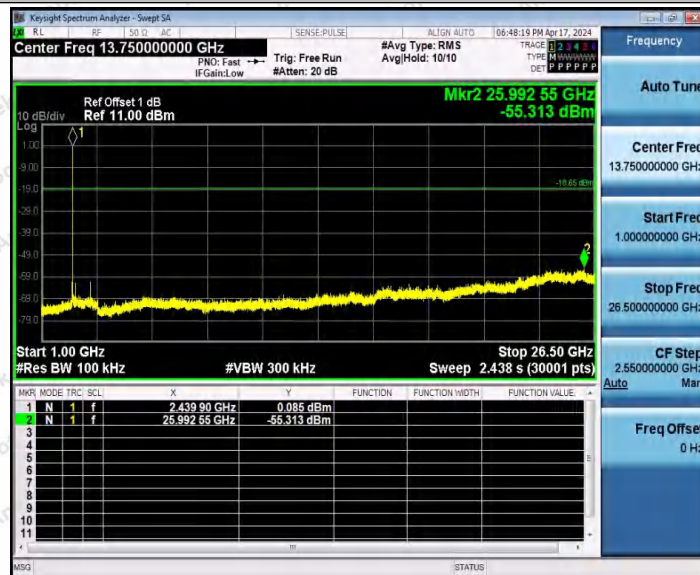


BLE_1M-Ant1-2440-0~Reference-PASS





BLE_1M-Ant1-2440-30~1000-PASS

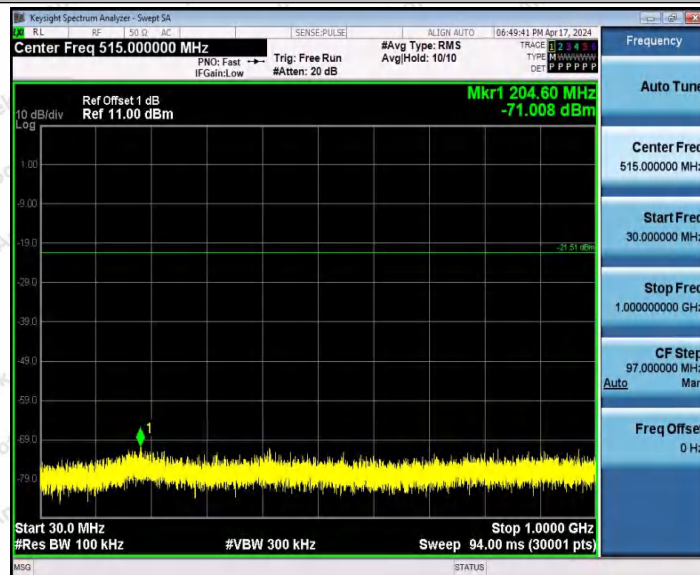


BLE_1M-Ant1-2440-1000~26500-PASS





BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

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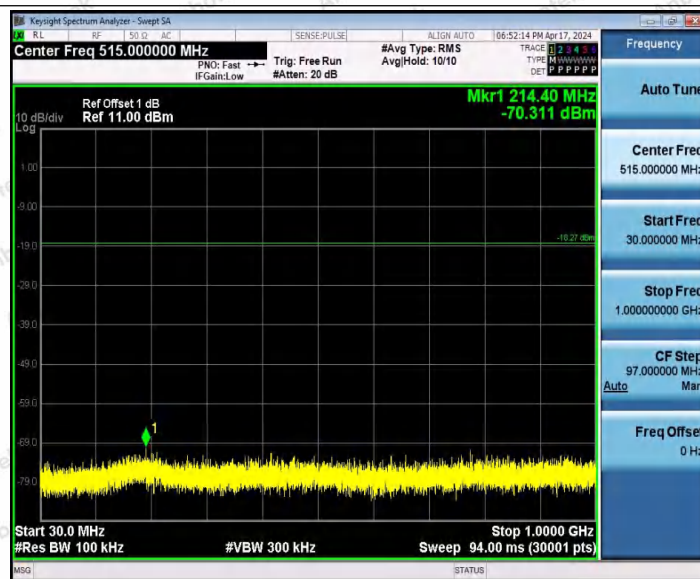


BLE_1M-Ant1-2480-1000~26500-PASS

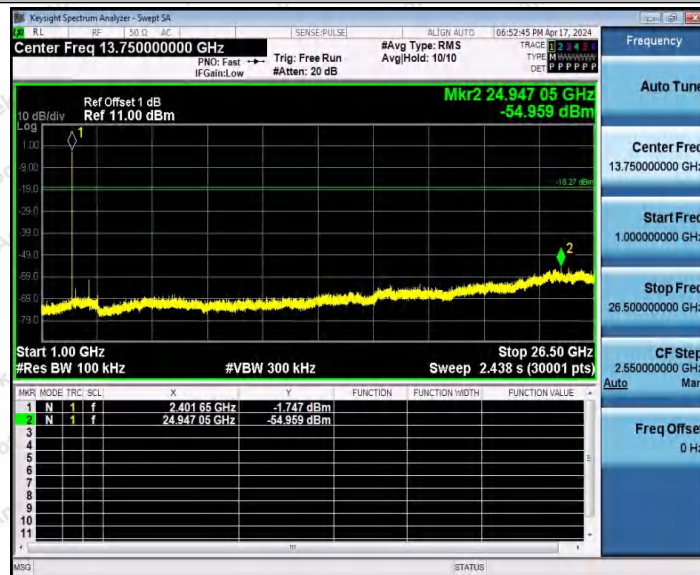


BLE_2M-Ant1-2402-0~Reference-PASS





BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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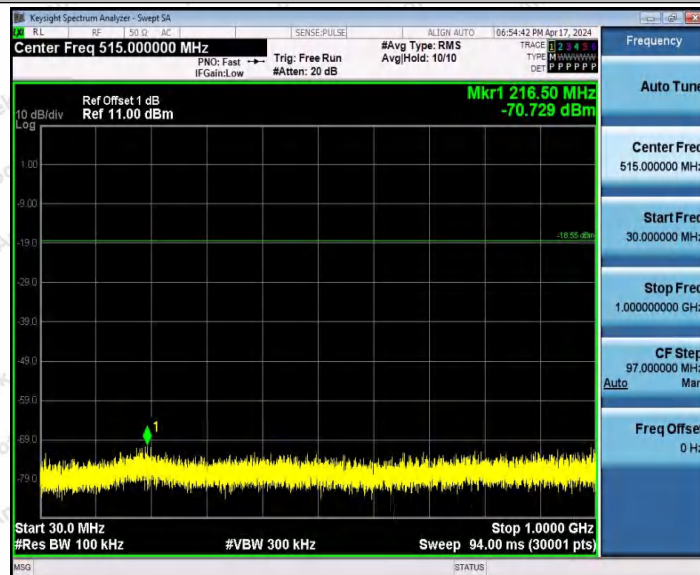


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BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

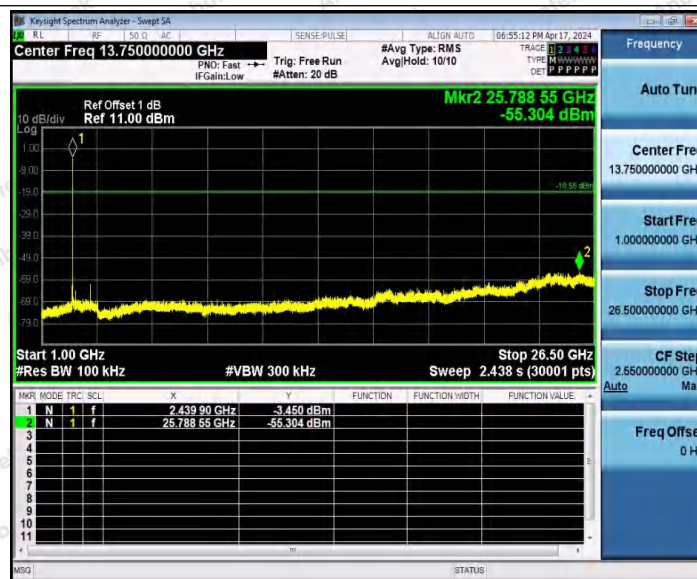
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BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS

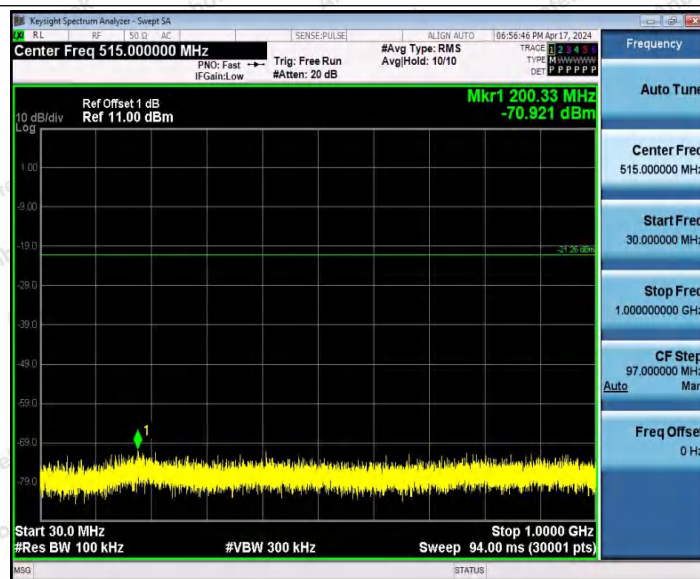
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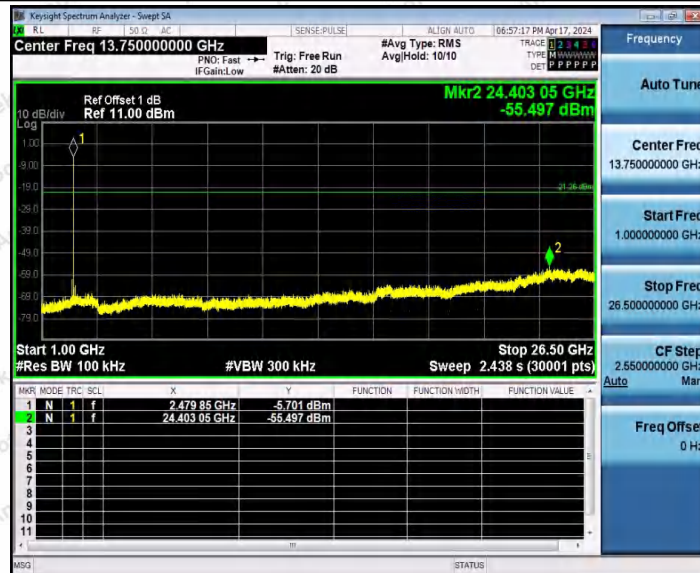


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BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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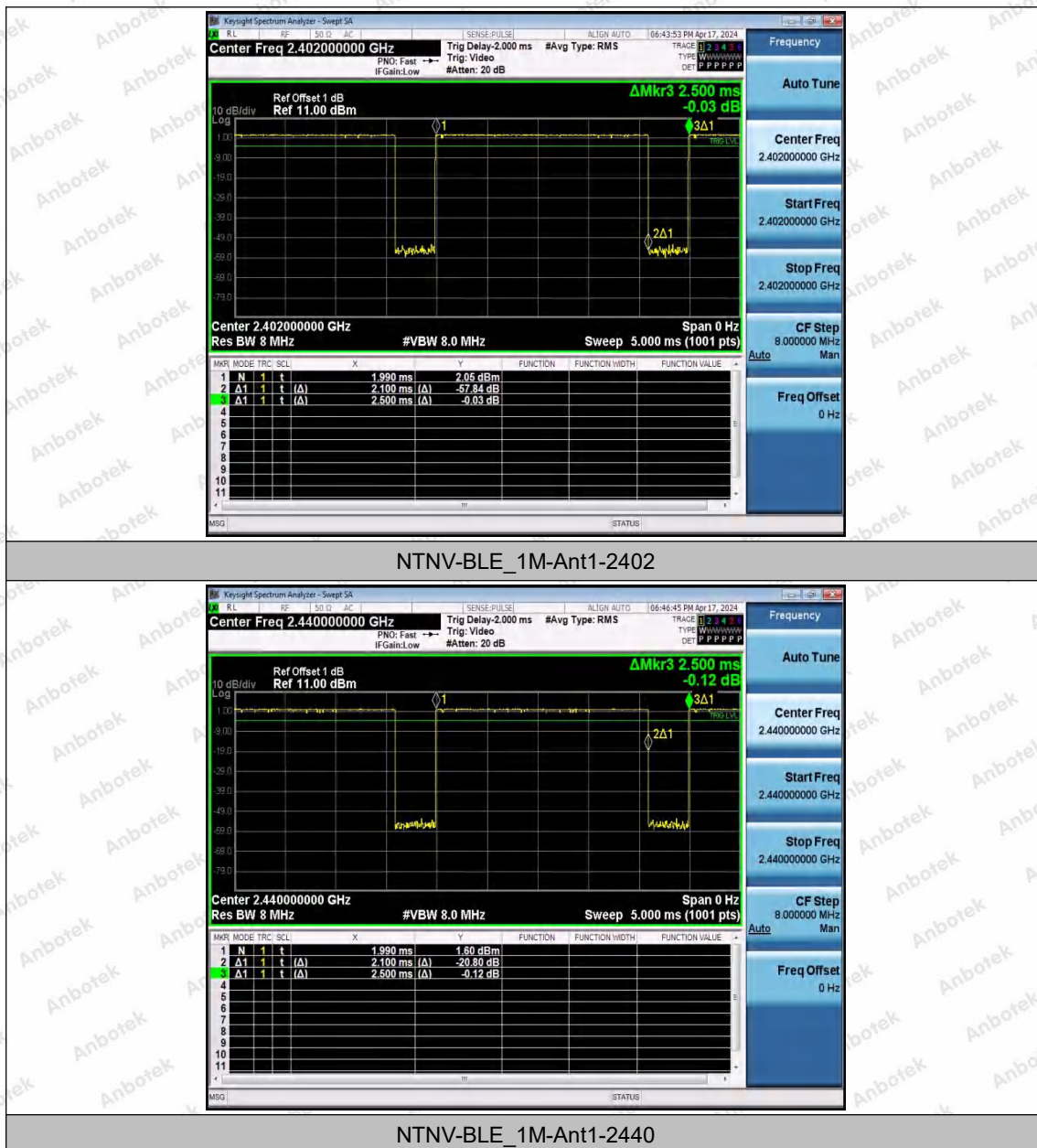
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45



Test Graphs



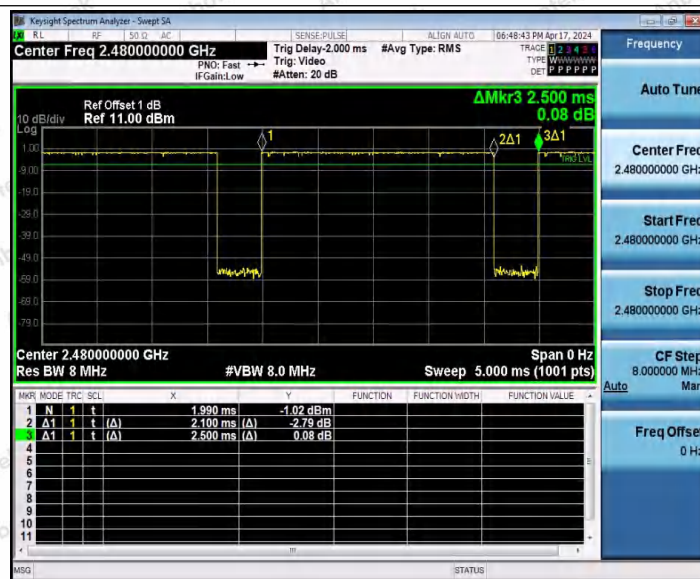
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NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402

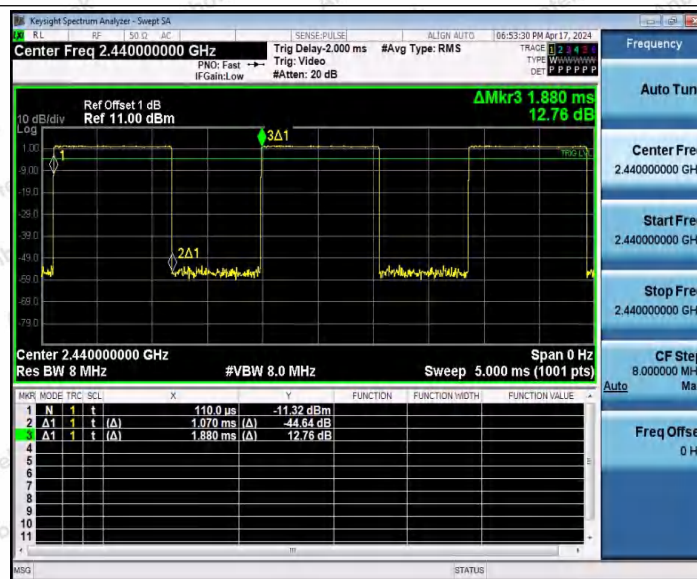
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NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

