

Appendix Test Data

Report No.:	18220WC40088401	Test Sample No.:	1-2-2
Start Test Date:	2024.05.22	Finish Test Date:	2024.05.23
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.2℃	Relative Humidity:	44%
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	0.672	2401.652	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.680	2439.664	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.668	2479.656	2480.324	0.5	PASS



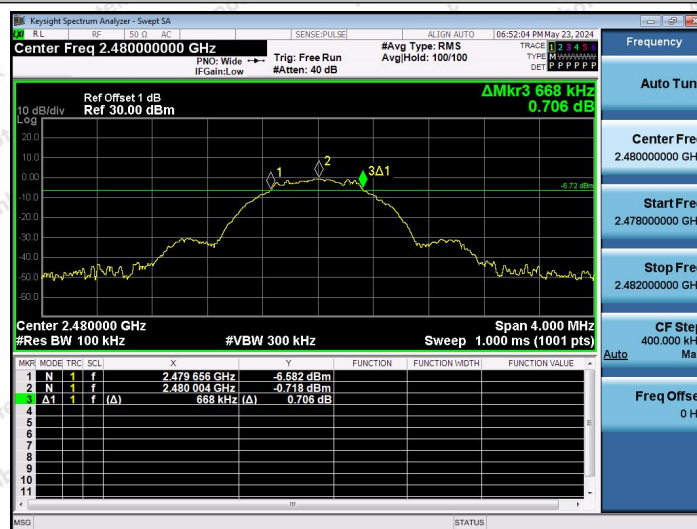
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0314	2401.4853	2402.5167	---	---
BLE_1M	Ant1	2440	1.0370	2439.4814	2440.5184	---	---
BLE_1M	Ant1	2480	1.0321	2479.4819	2480.5140	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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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	0.89	≤30	PASS
BLE_1M	Ant1	2440	1.17	≤30	PASS
BLE_1M	Ant1	2480	1.19	≤30	PASS

Test Graphs Peak

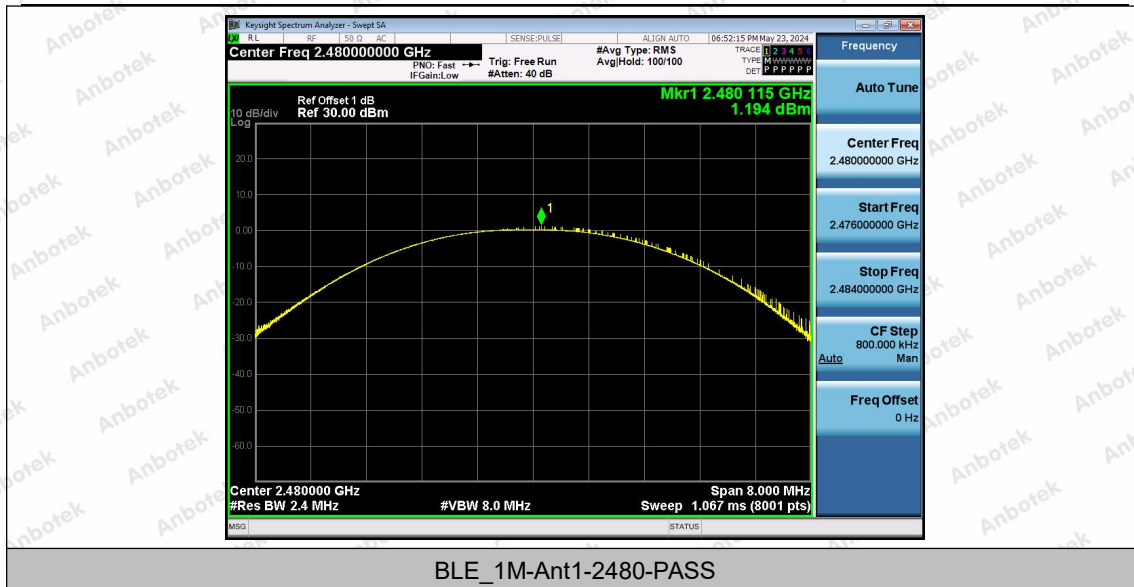


BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



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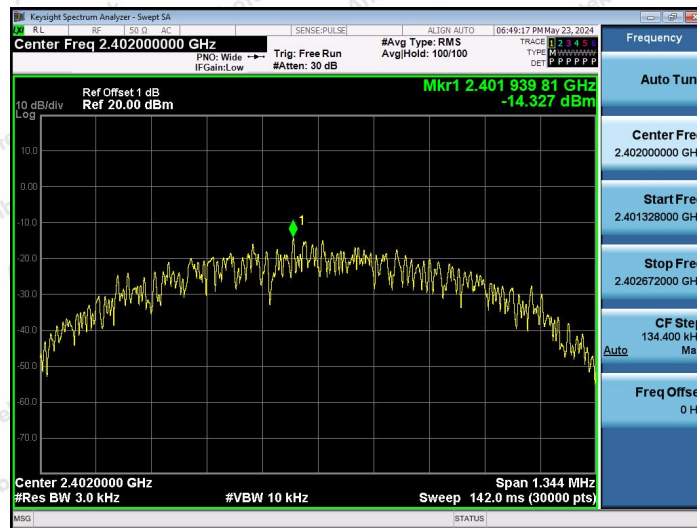
Appendix D: Maximum power spectral density

Test Result

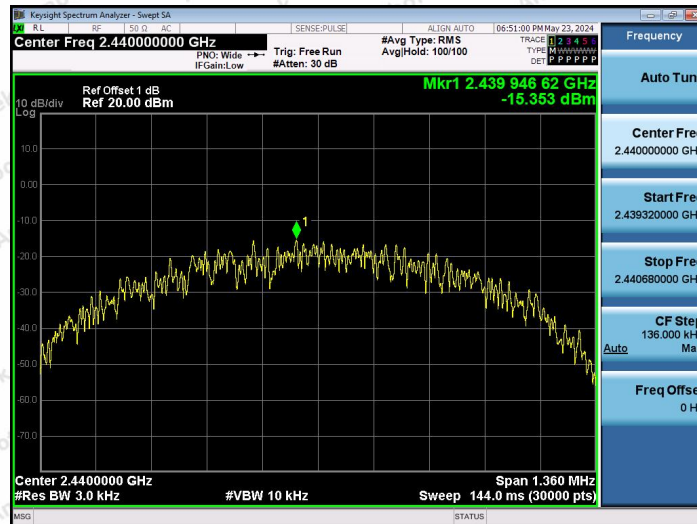
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.33	≤8.00	PASS
BLE_1M	Ant1	2440	-15.35	≤8.00	PASS
BLE_1M	Ant1	2480	-15.88	≤8.00	PASS



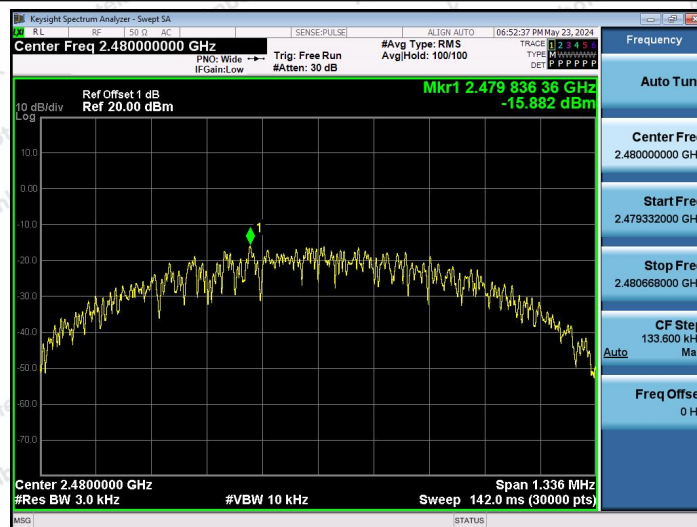
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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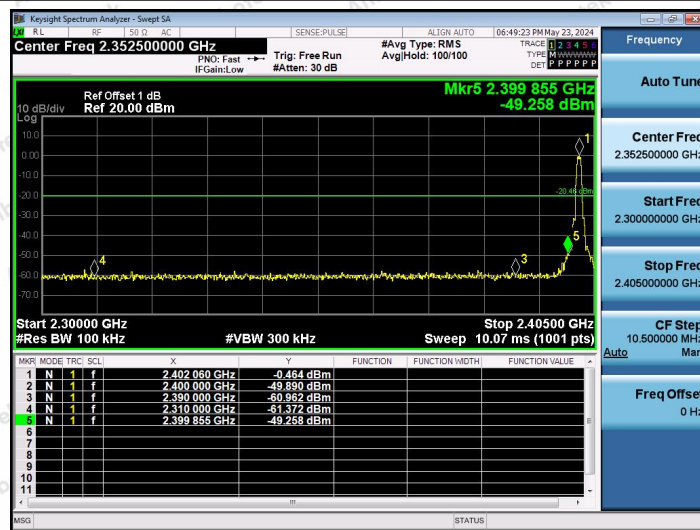
Appendix E: Band edge measurements

Test Result

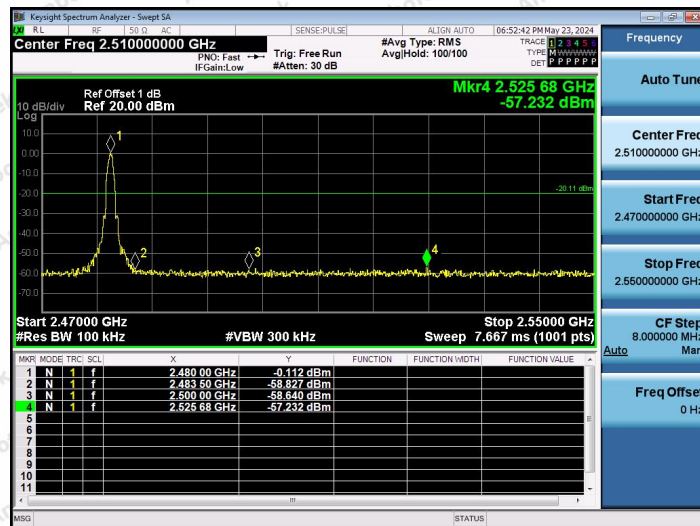
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.46	-49.26	≤-20.46	PASS
BLE_1M	Ant1	High	2480	-0.11	-57.23	≤-20.11	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

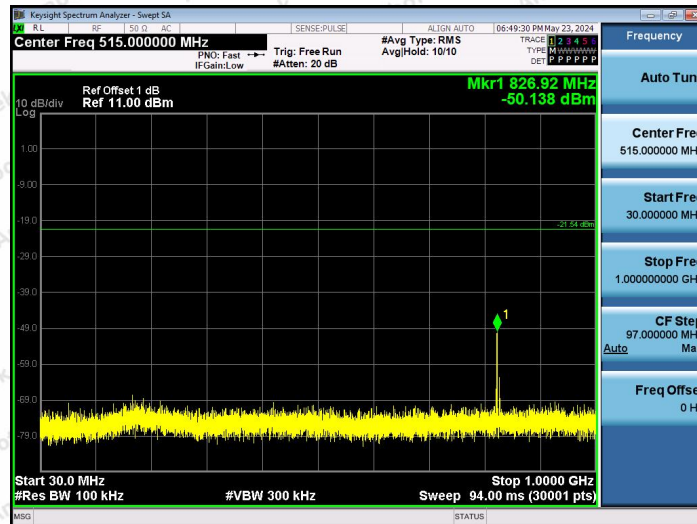
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.54	-1.54	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.54	-50.14	≤-21.54	PASS
BLE_1M	Ant1	2402	1000~26500	-1.54	-53.69	≤-21.54	PASS
BLE_1M	Ant1	2440	0~Reference	-0.84	-0.84	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.84	-69.27	≤-20.84	PASS
BLE_1M	Ant1	2440	1000~26500	-0.84	-53.05	≤-20.84	PASS
BLE_1M	Ant1	2480	0~Reference	-0.61	-0.61	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.61	-68.66	≤-20.61	PASS
BLE_1M	Ant1	2480	1000~26500	-0.61	-44.78	≤-20.61	PASS



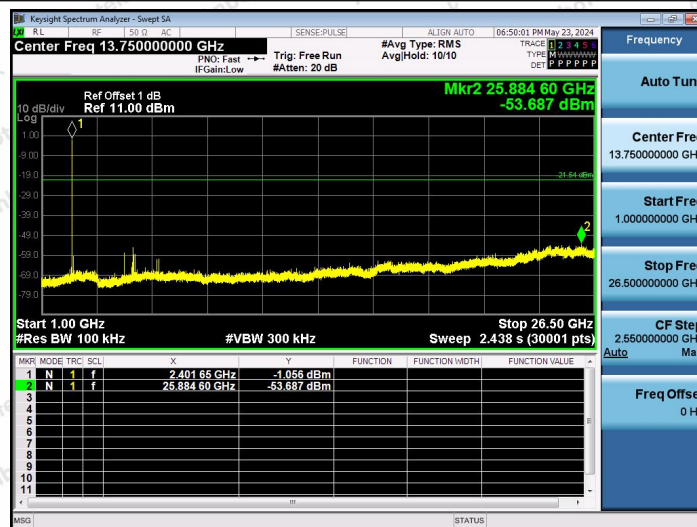
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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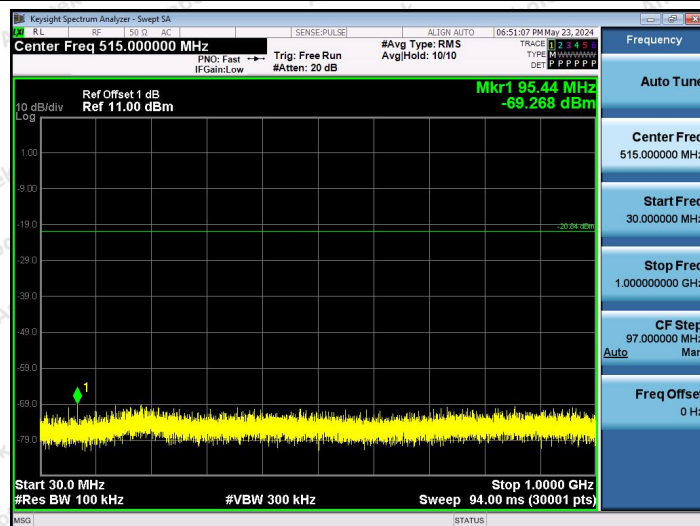


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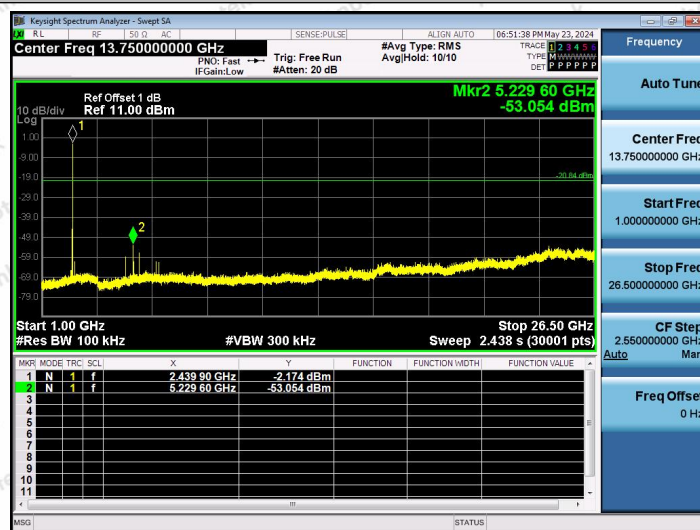




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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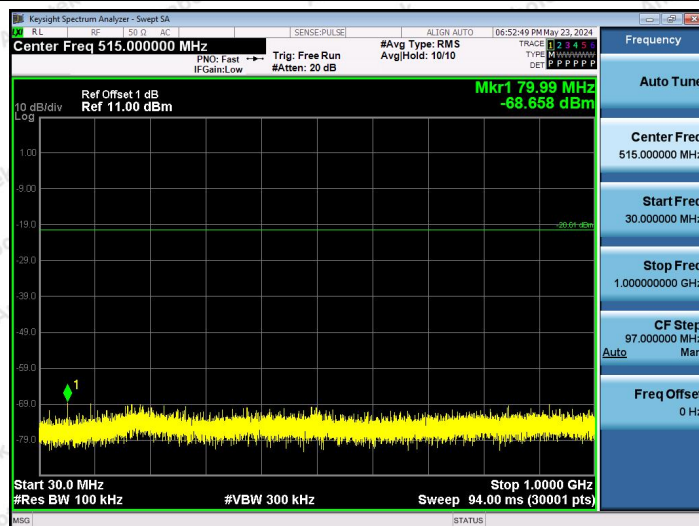
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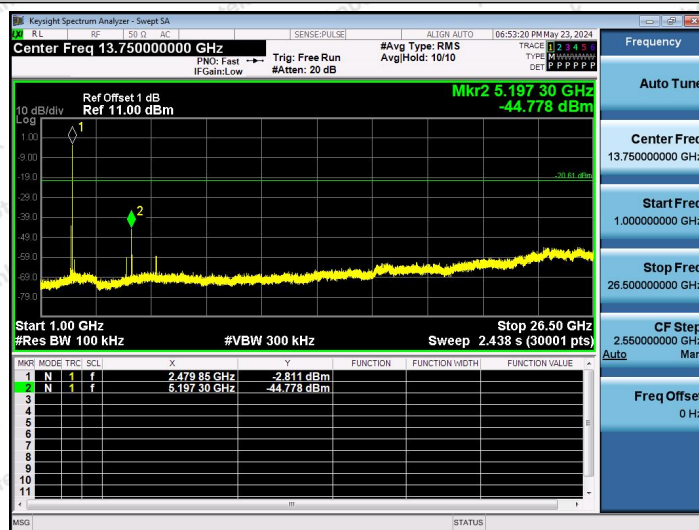




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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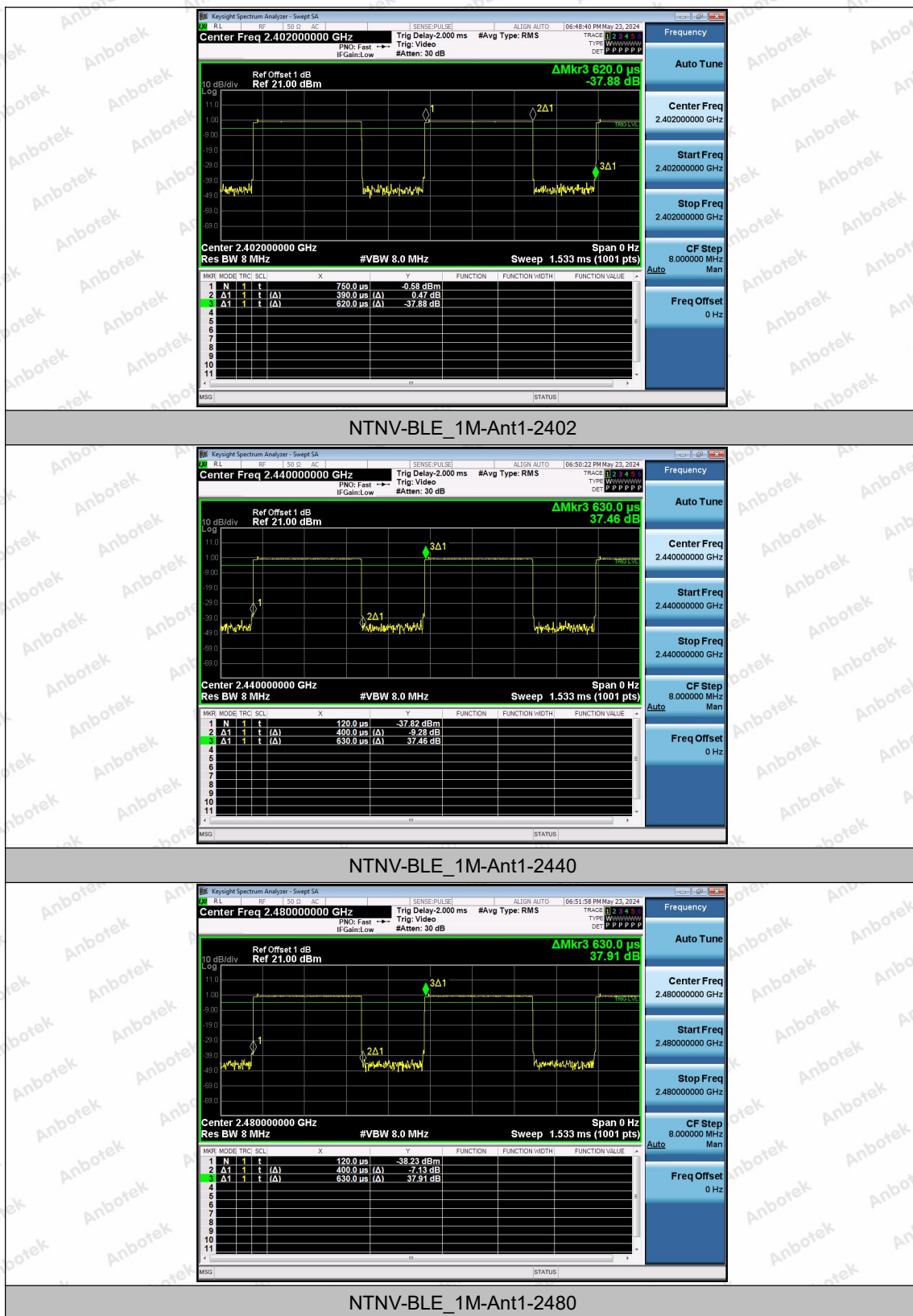
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97



Test Graphs



---End---

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