

Appendix Test Data

Report No.:	18220WC40072102	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.10
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	49%
Pressure:	101kPa		
Test module:	MT6631		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.652	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.644	2439.676	2440.320	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.672	2480.336	0.5	PASS



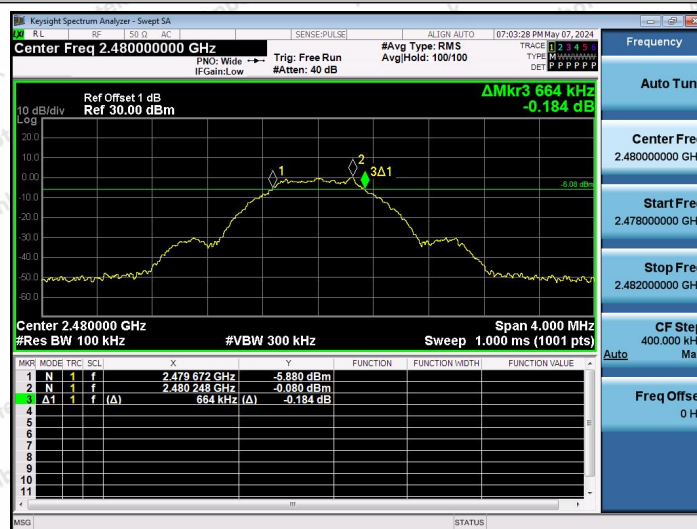
Test Graphs



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	1.0359	2401.4881	2402.5240	---	---
BLE_1M	Ant1	2440	1.0283	2439.4929	2440.5212	---	---
BLE_1M	Ant1	2480	1.0317	2479.4917	2480.5234	---	---

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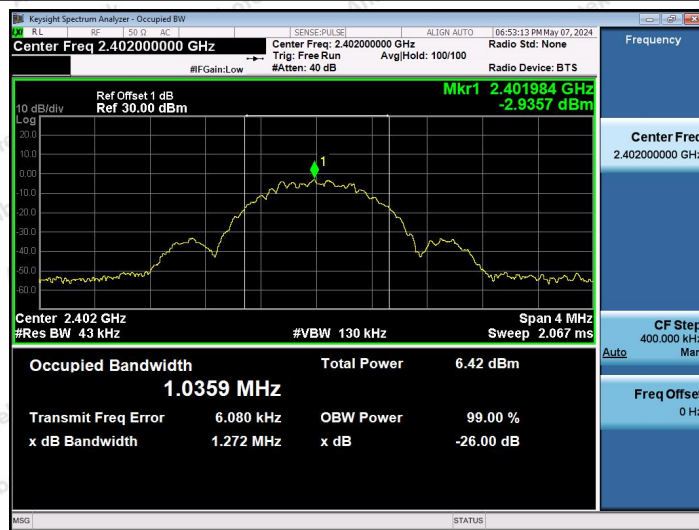
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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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Appendix C: Maximum conducted output power

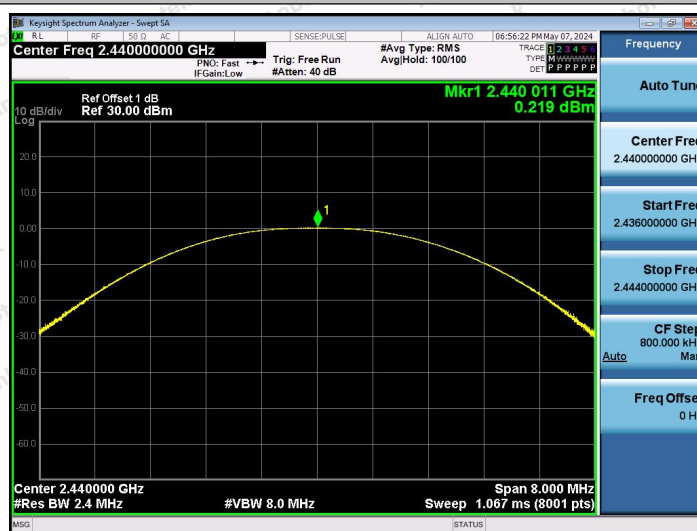
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.18	≤30	PASS
BLE_1M	Ant1	2440	0.22	≤30	PASS
BLE_1M	Ant1	2480	0.37	≤30	PASS

Test Graphs Peak

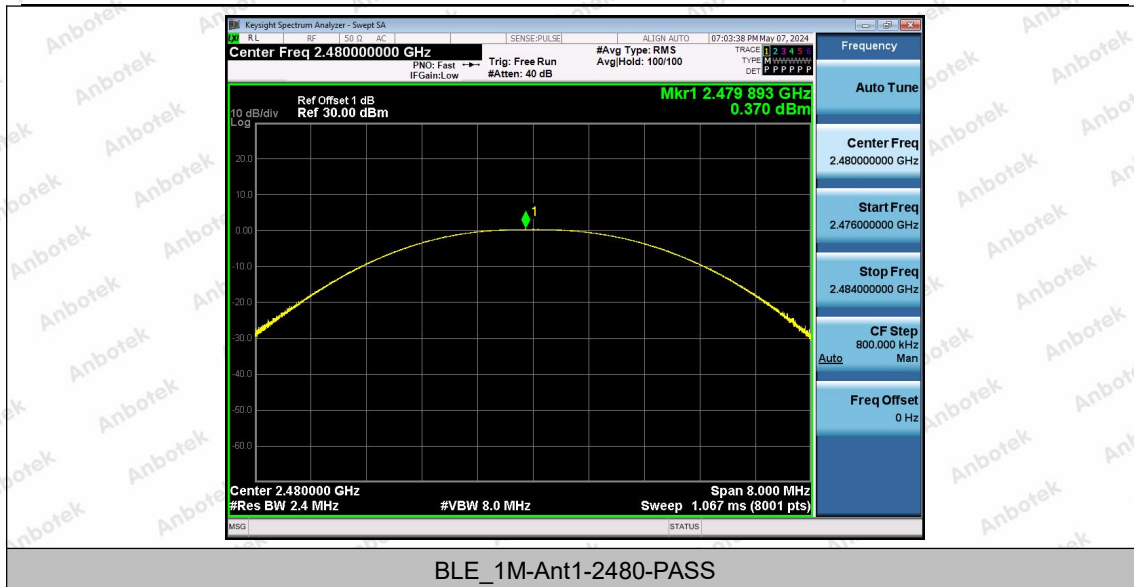


BLE_1M-Ant1-2402-PASS



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	-16.42	≤8.00	PASS
BLE_1M	Ant1	2440	-16.06	≤8.00	PASS
BLE_1M	Ant1	2480	-15.85	≤8.00	PASS



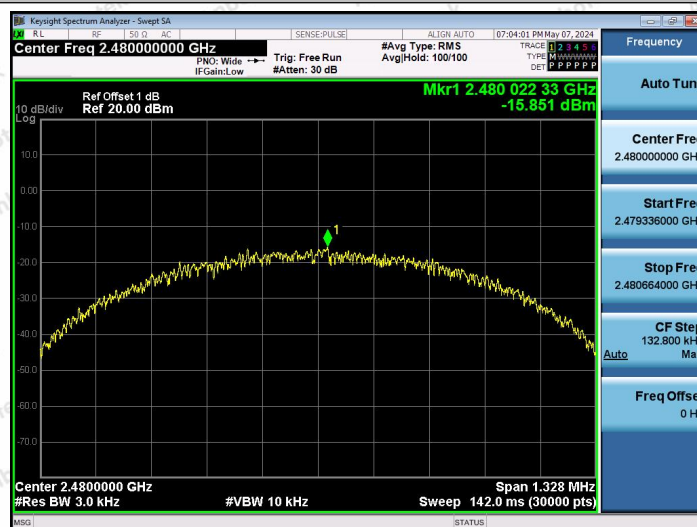
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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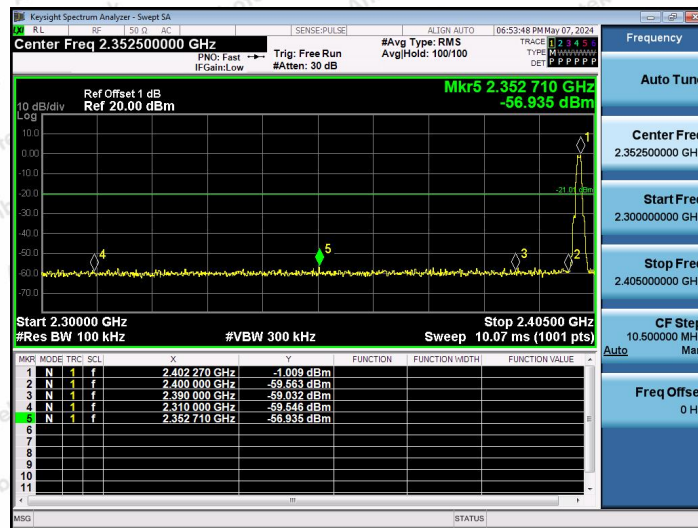
Appendix E: Band edge measurements

Test Result

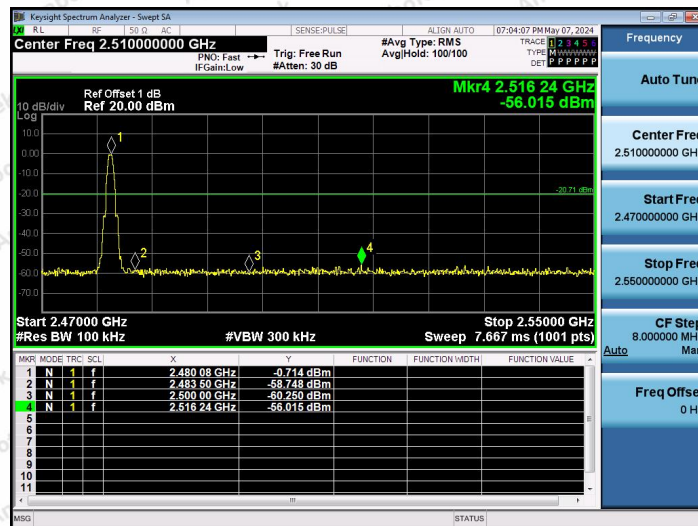
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.01	-56.94	≤-21.01	PASS
BLE_1M	Ant1	High	2480	-0.71	-56.02	≤-20.71	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

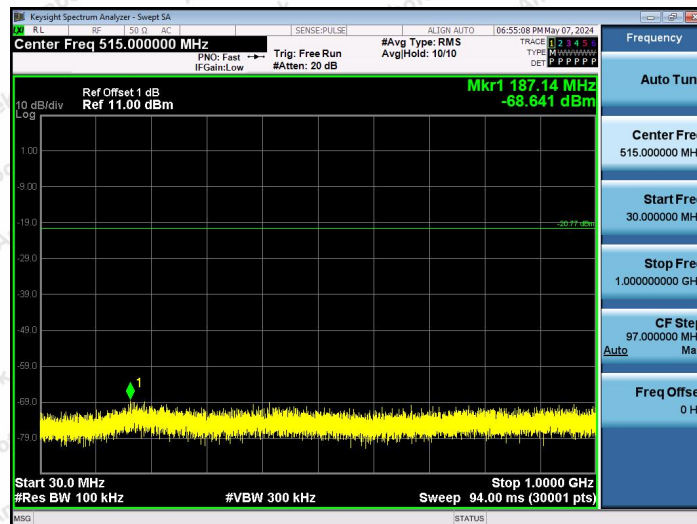
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.77	-0.77	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.77	-68.64	≤-20.77	PASS
BLE_1M	Ant1	2402	1000~26500	-0.77	-53.47	≤-20.77	PASS
BLE_1M	Ant1	2440	0~Reference	-0.27	-0.27	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.27	-68.1	≤-20.27	PASS
BLE_1M	Ant1	2440	1000~26500	-0.27	-54.14	≤-20.27	PASS
BLE_1M	Ant1	2480	0~Reference	-0.30	-0.30	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.30	-67.64	≤-20.3	PASS
BLE_1M	Ant1	2480	1000~26500	-0.30	-53.64	≤-20.3	PASS



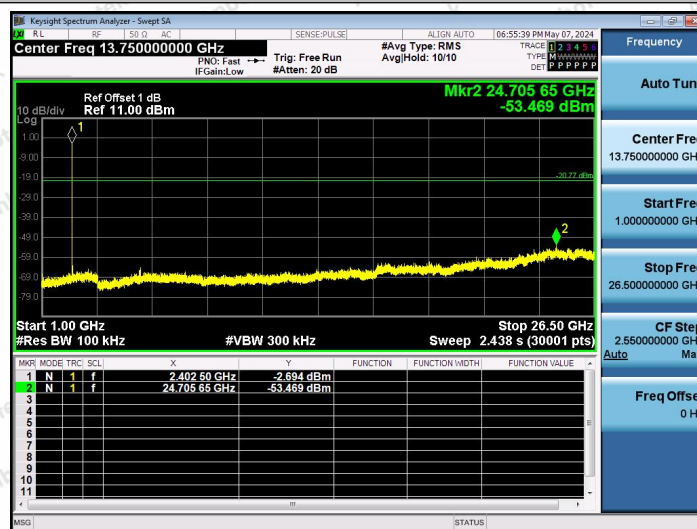
Test Graphs



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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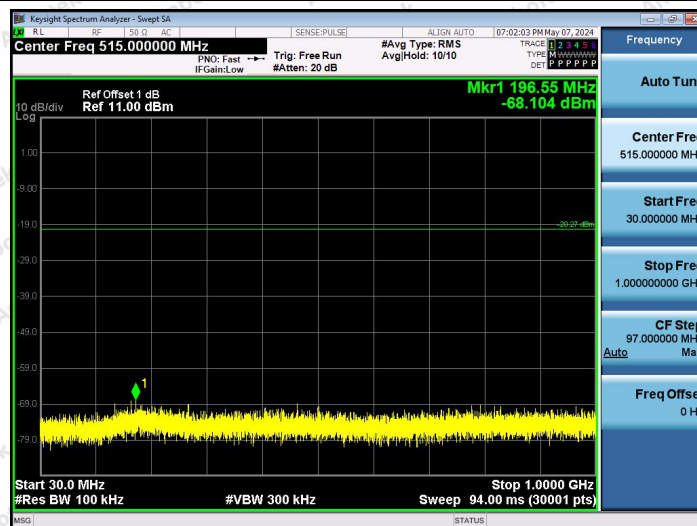


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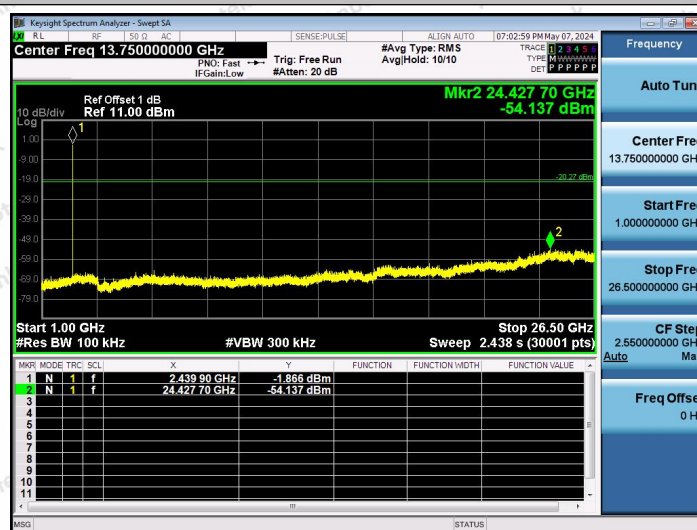




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

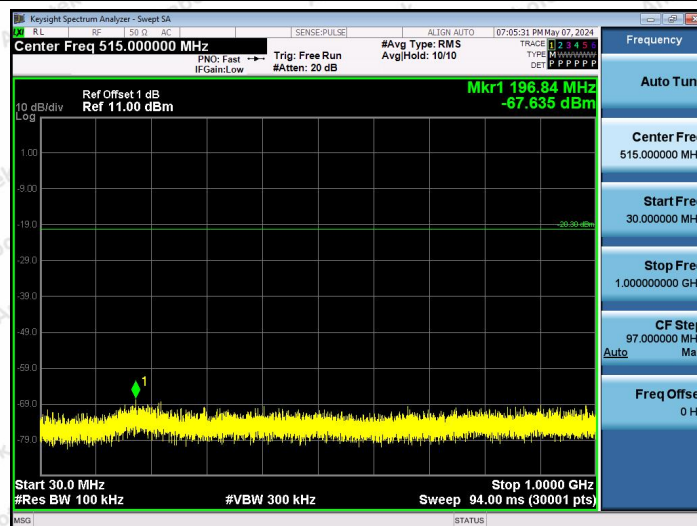


BLE_1M-Ant1-2440-1000~26500-PASS

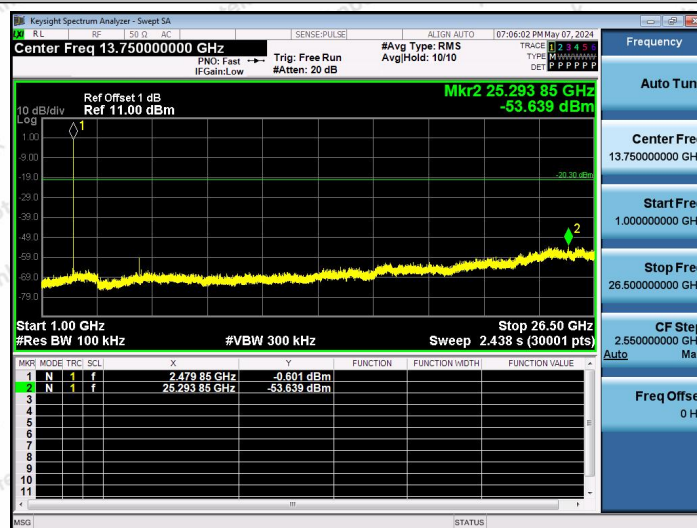




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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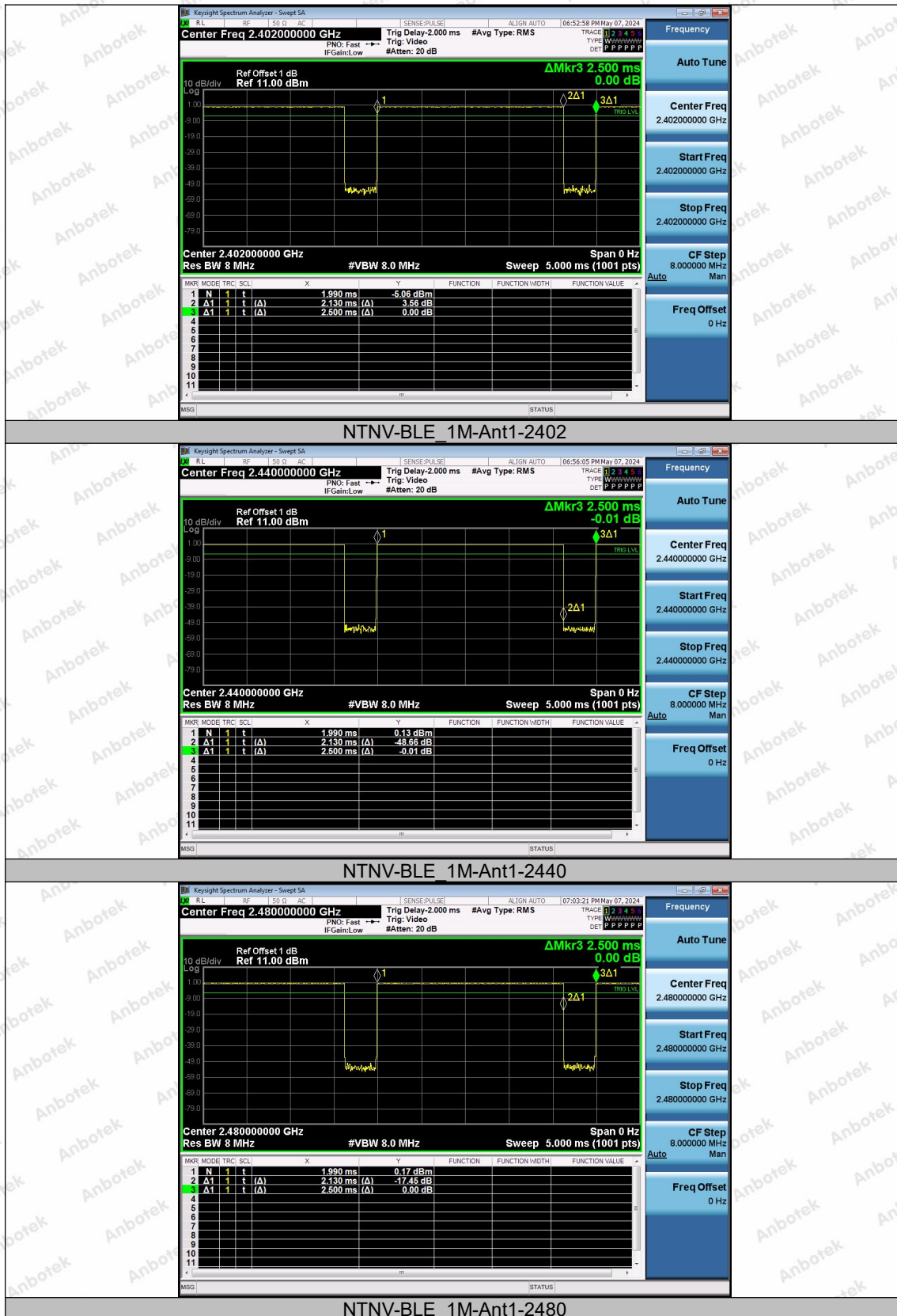
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70



Test Graphs



---End---

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