

Appendix Test Data

Report No.:	1814C40017912501	Test Sample No.:	1-2-2
Start Test Date:	2024.08.23	Finish Test Date:	2024.08.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

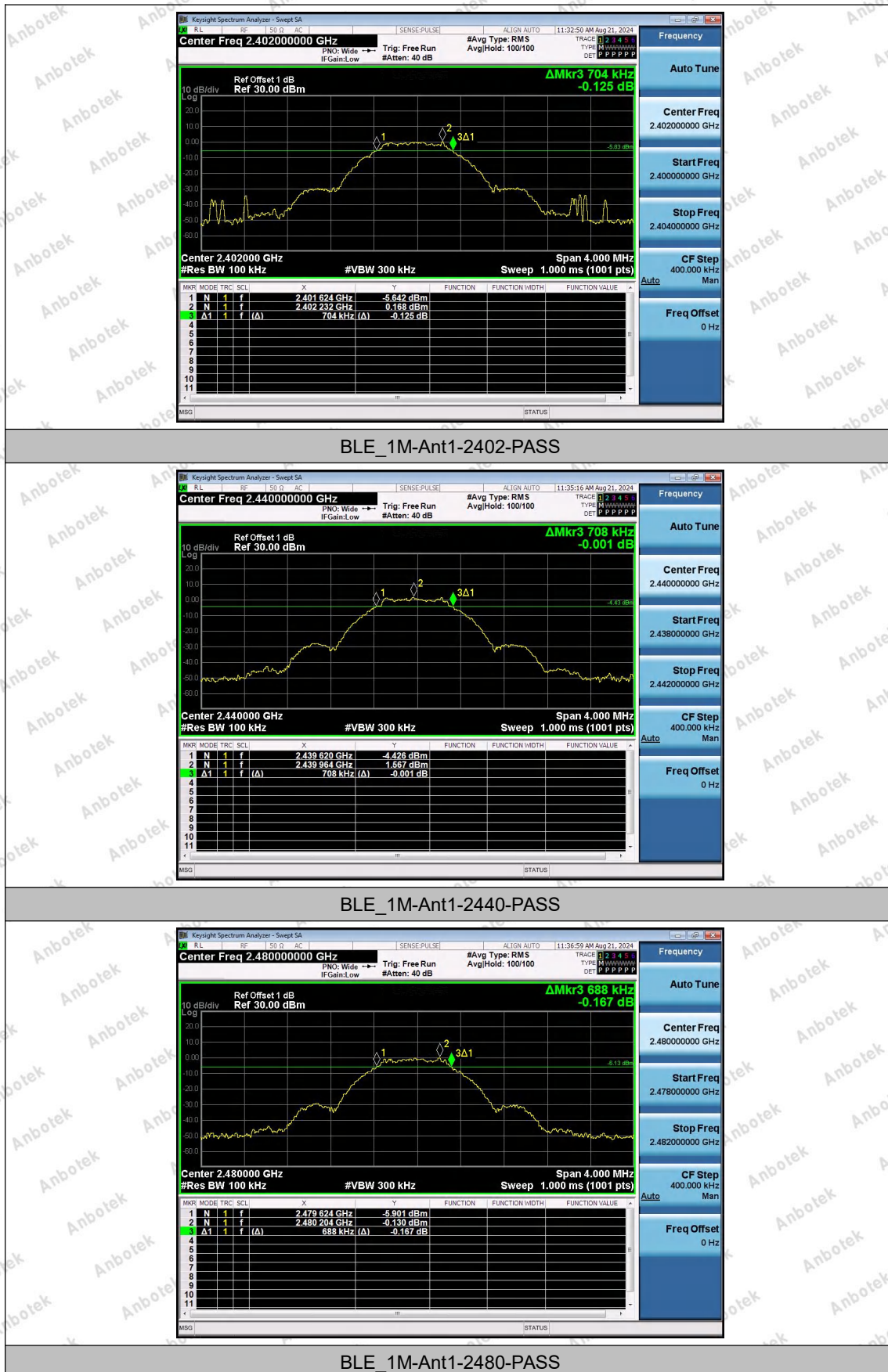
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.624	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.620	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.624	2480.312	0.5	PASS
BLE_2M	Ant1	2402	1.288	2401.368	2402.656	0.5	PASS
BLE_2M	Ant1	2440	1.136	2439.444	2440.580	0.5	PASS
BLE_2M	Ant1	2480	1.144	2479.432	2480.576	0.5	PASS



Test Graphs



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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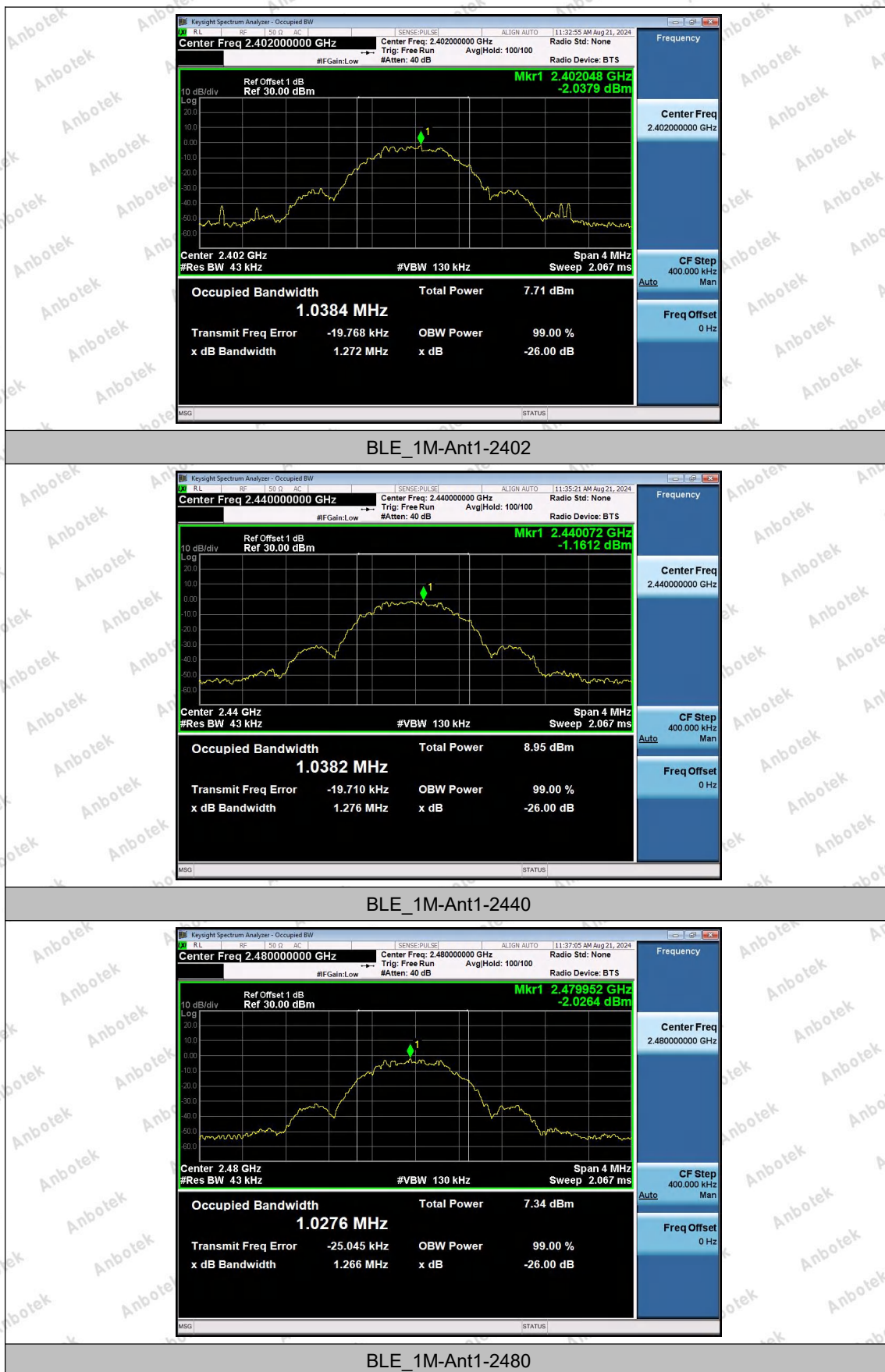
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0384	2401.4610	2402.4994	---	---
BLE_1M	Ant1	2440	1.0382	2439.4612	2440.4994	---	---
BLE_1M	Ant1	2480	1.0276	2479.4612	2480.4888	---	---
BLE_2M	Ant1	2402	2.0619	2400.9777	2403.0396	---	---
BLE_2M	Ant1	2440	2.0857	2438.9735	2441.0592	---	---
BLE_2M	Ant1	2480	2.0733	2478.9783	2481.0516	---	---



Test Graphs



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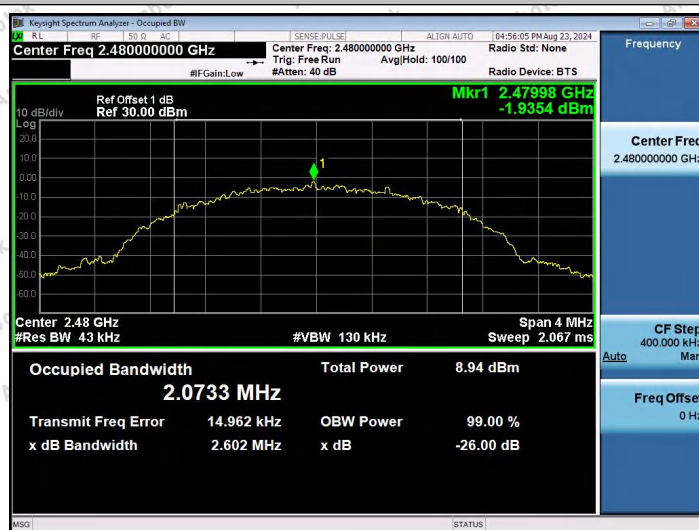




BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-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	1.34	≤30	PASS
BLE_1M	Ant1	2440	2.45	≤30	PASS
BLE_1M	Ant1	2480	0.85	≤30	PASS
BLE_2M	Ant1	2402	0.02	≤30	PASS
BLE_2M	Ant1	2440	2.01	≤30	PASS
BLE_2M	Ant1	2480	3.03	≤30	PASS



Test Graphs Peak



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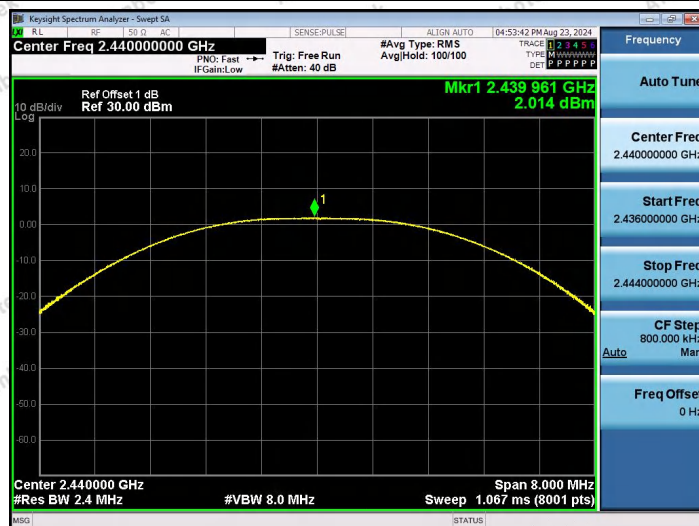


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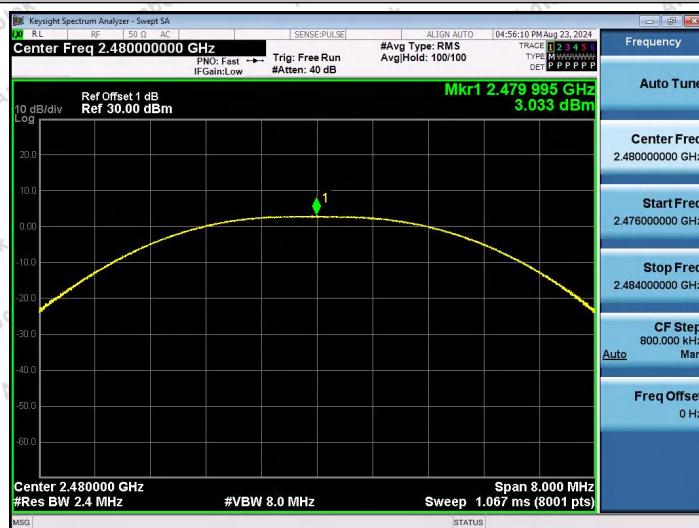




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



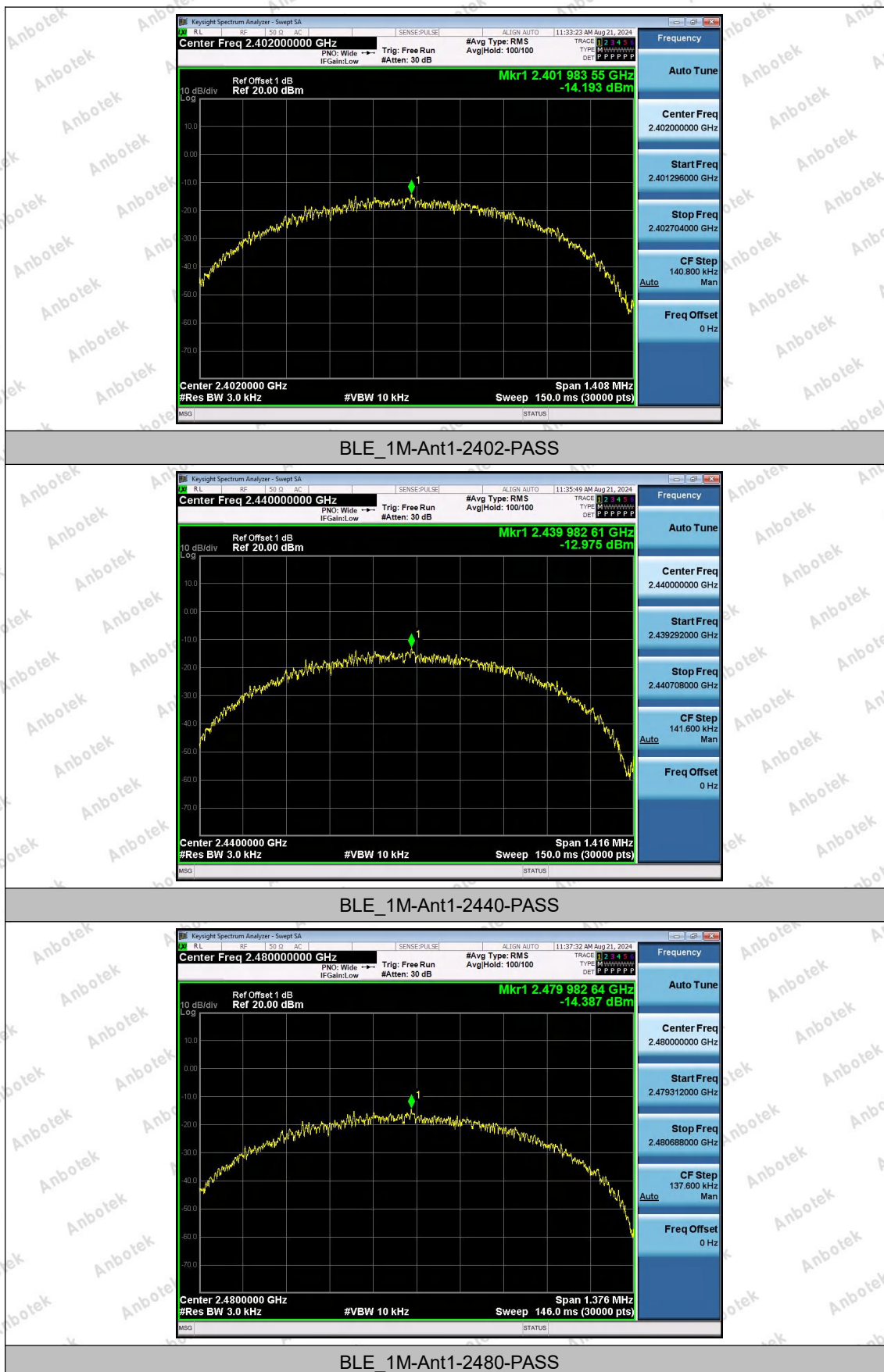
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.19	≤8.00	PASS
BLE_1M	Ant1	2440	-12.98	≤8.00	PASS
BLE_1M	Ant1	2480	-14.39	≤8.00	PASS
BLE_2M	Ant1	2402	-15.89	≤8.00	PASS
BLE_2M	Ant1	2440	-14.03	≤8.00	PASS
BLE_2M	Ant1	2480	-13.02	≤8.00	PASS



Test Graphs



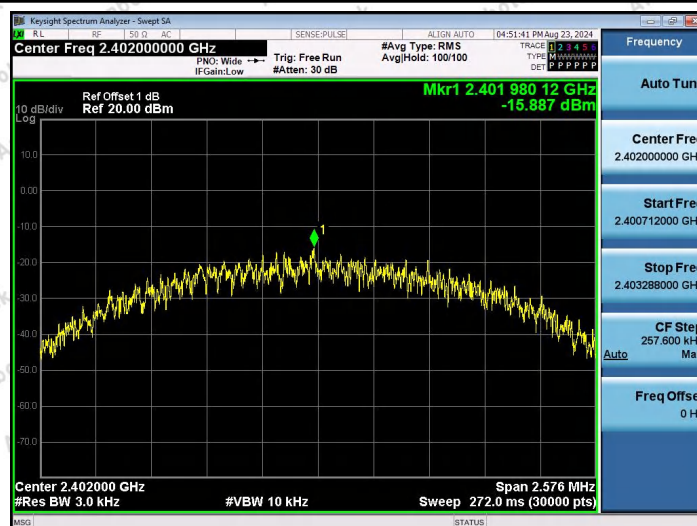
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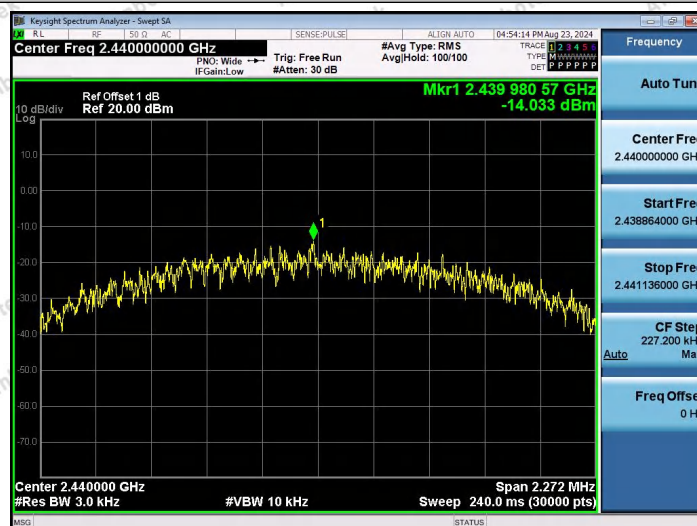


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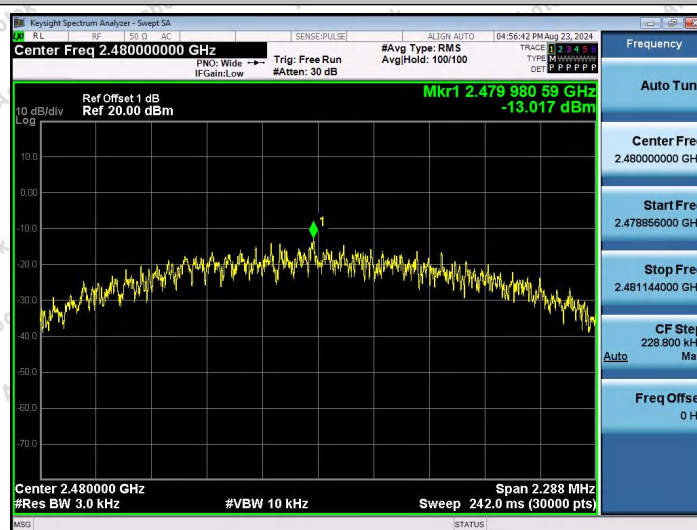




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



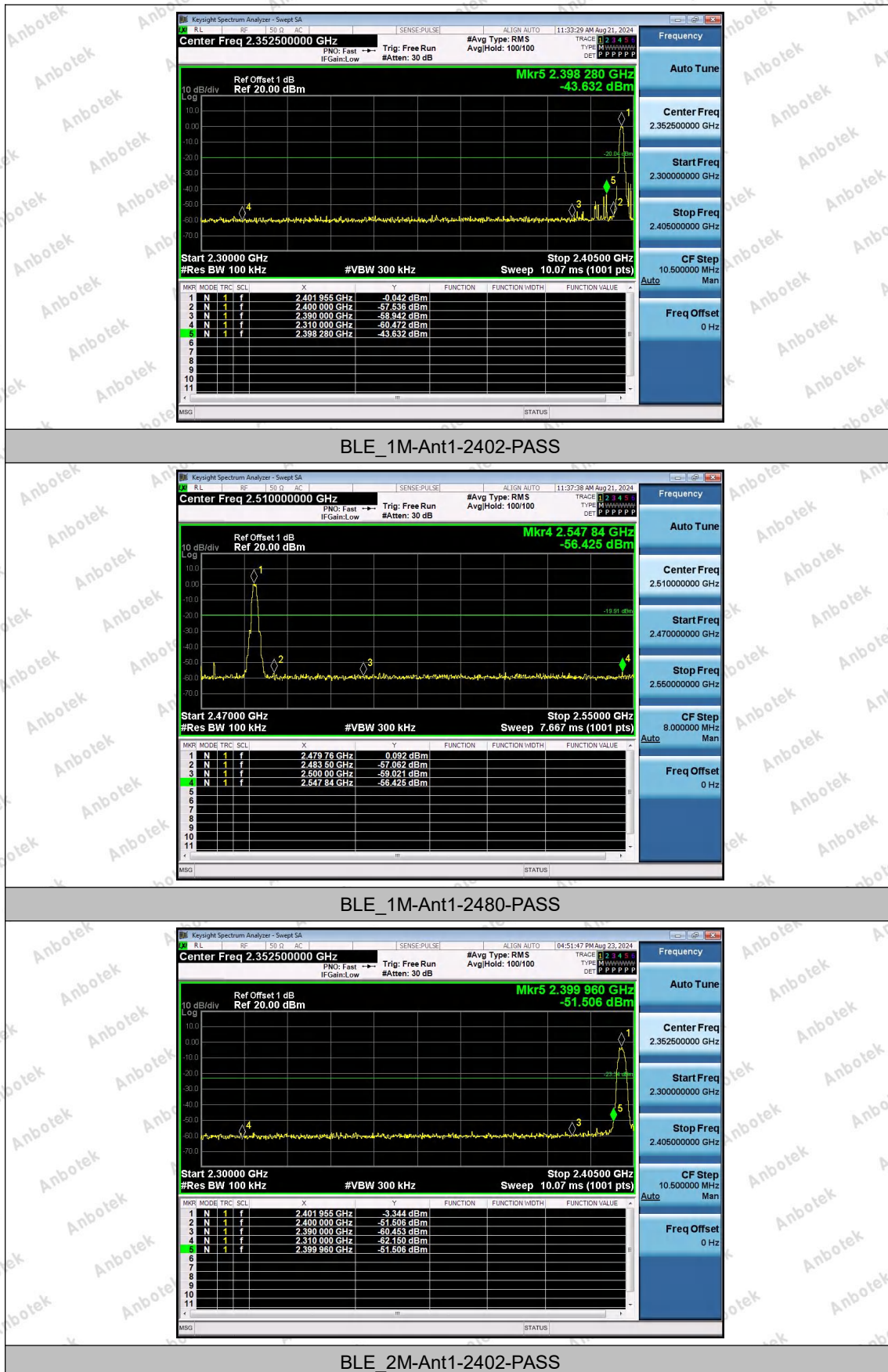
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.04	-43.63	≤-20.04	PASS
BLE_1M	Ant1	High	2480	0.09	-56.43	≤-19.91	PASS
BLE_2M	Ant1	Low	2402	-3.34	-51.51	≤-23.34	PASS
BLE_2M	Ant1	High	2480	-0.66	-36.97	≤-20.66	PASS



Test Graphs



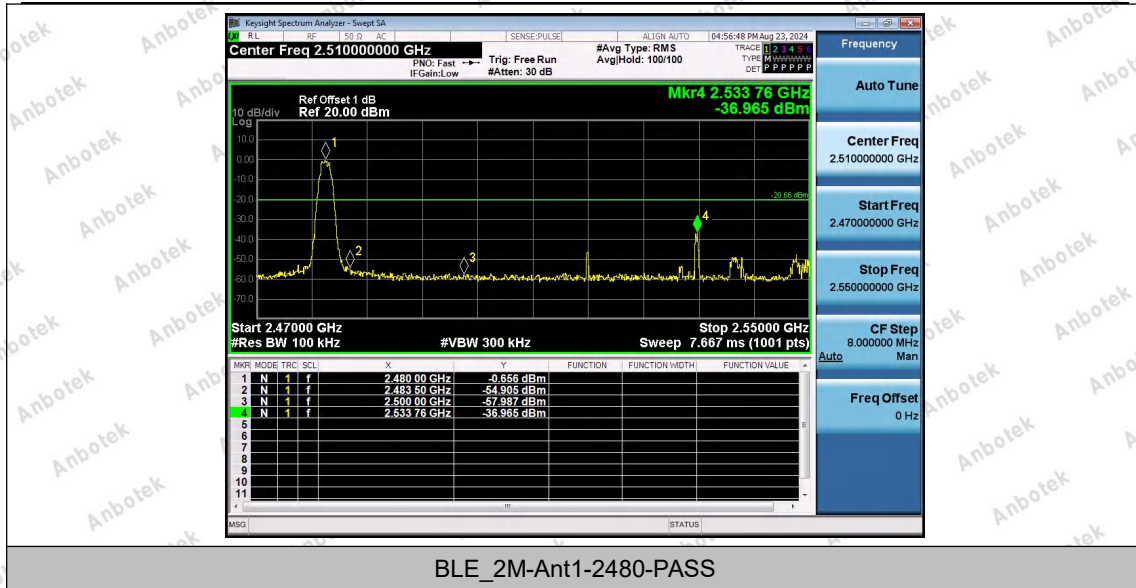
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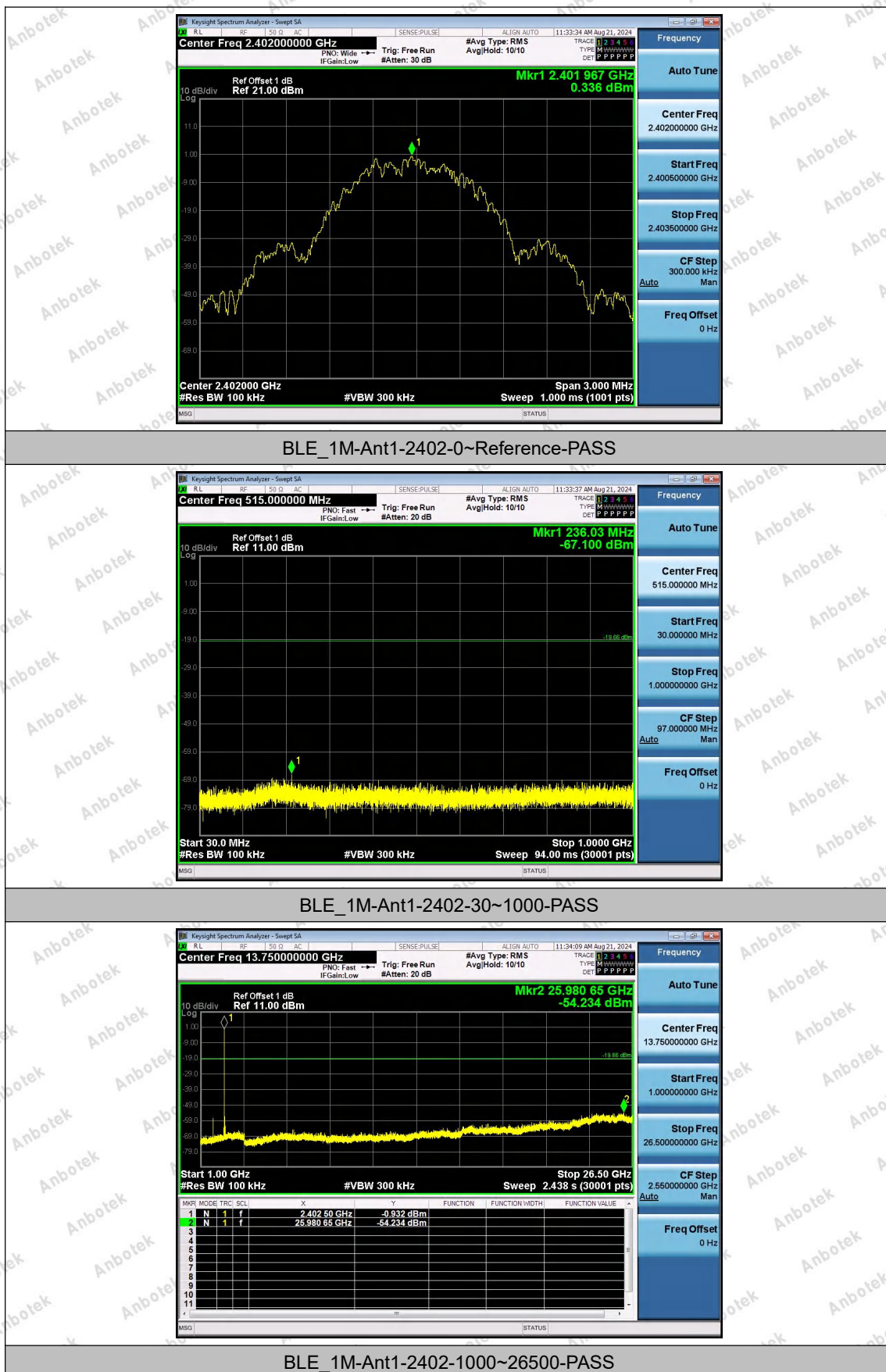
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.34	0.34	---	PASS
BLE_1M	Ant1	2402	30~1000	0.34	-67.1	≤-19.66	PASS
BLE_1M	Ant1	2402	1000~26500	0.34	-54.23	≤-19.66	PASS
BLE_1M	Ant1	2440	0~Reference	0.78	0.78	---	PASS
BLE_1M	Ant1	2440	30~1000	0.78	-68.78	≤-19.22	PASS
BLE_1M	Ant1	2440	1000~26500	0.78	-54.38	≤-19.22	PASS
BLE_1M	Ant1	2480	0~Reference	-0.97	-0.97	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.97	-68.15	≤-20.97	PASS
BLE_1M	Ant1	2480	1000~26500	-0.97	-54.18	≤-20.97	PASS
BLE_2M	Ant1	2402	0~Reference	-2.02	-2.02	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.02	-57.56	≤-22.02	PASS
BLE_2M	Ant1	2402	1000~26500	-2.02	-50.14	≤-22.02	PASS
BLE_2M	Ant1	2440	0~Reference	-2.21	-2.21	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.21	-57.43	≤-22.21	PASS
BLE_2M	Ant1	2440	1000~26500	-2.21	-43.87	≤-22.21	PASS
BLE_2M	Ant1	2480	0~Reference	-1.47	-1.47	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.47	-57.22	≤-21.47	PASS
BLE_2M	Ant1	2480	1000~26500	-1.47	-41.12	≤-21.47	PASS



Test Graphs



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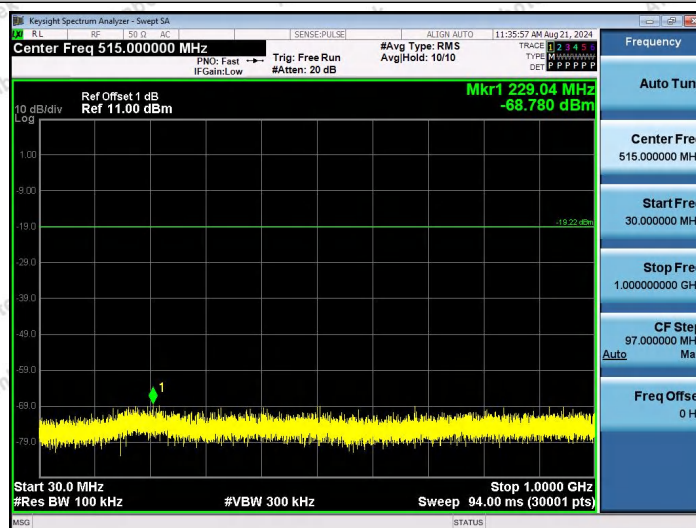


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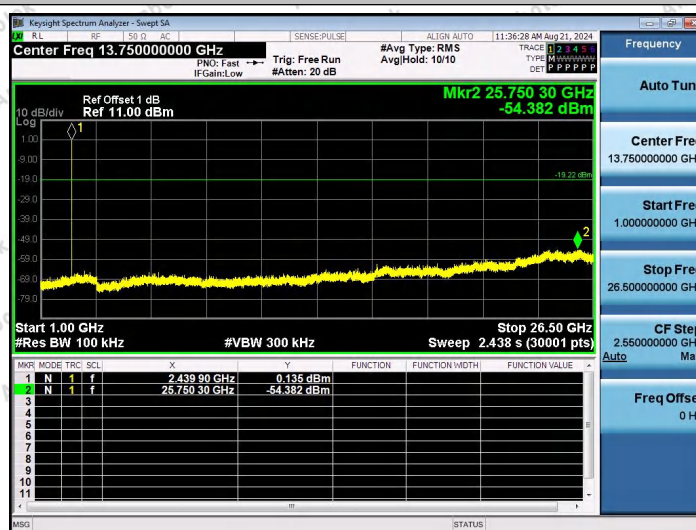




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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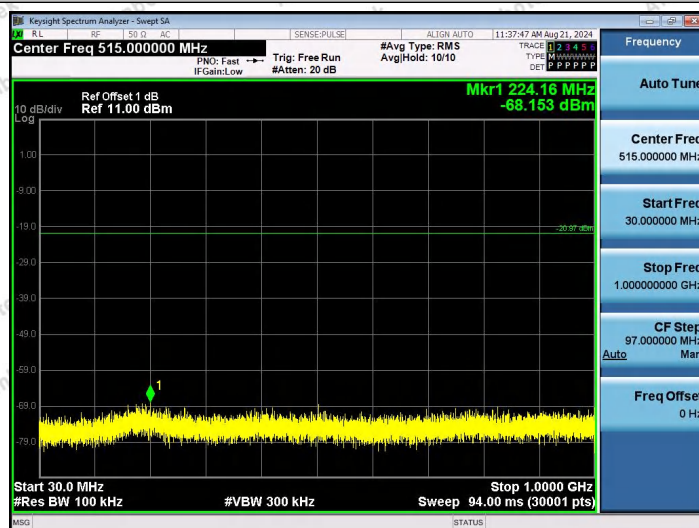


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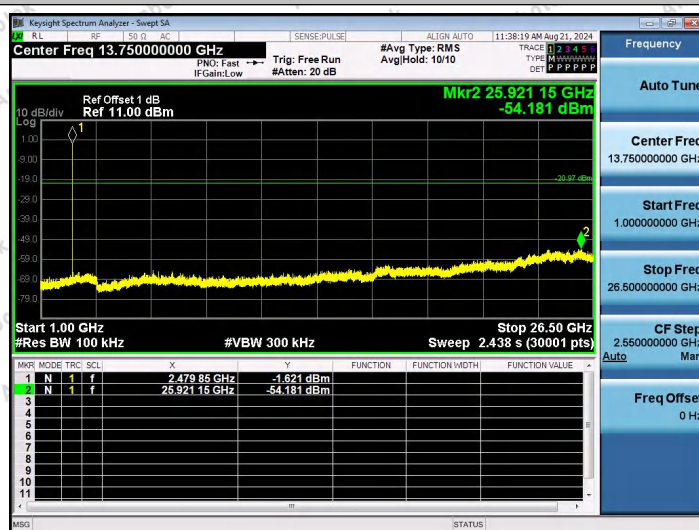




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

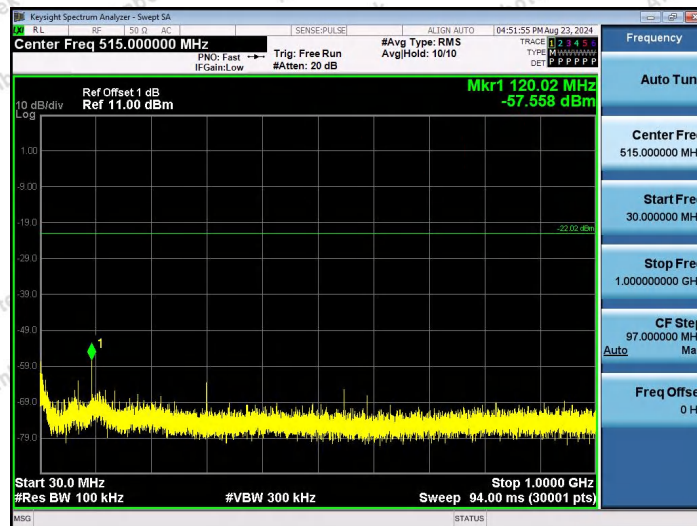


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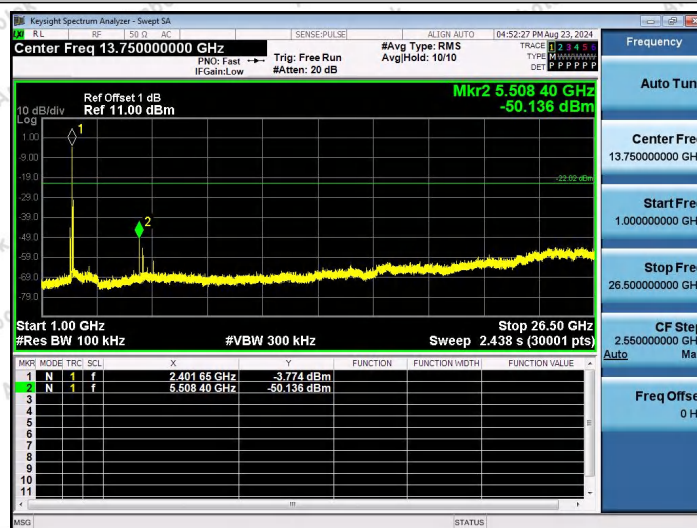




BLE_2M-Ant1-2402-0~Reference-PASS

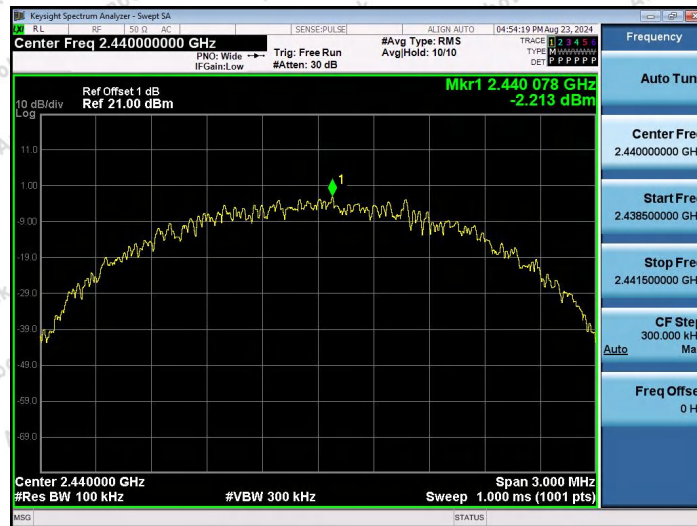


BLE_2M-Ant1-2402-30~1000-PASS

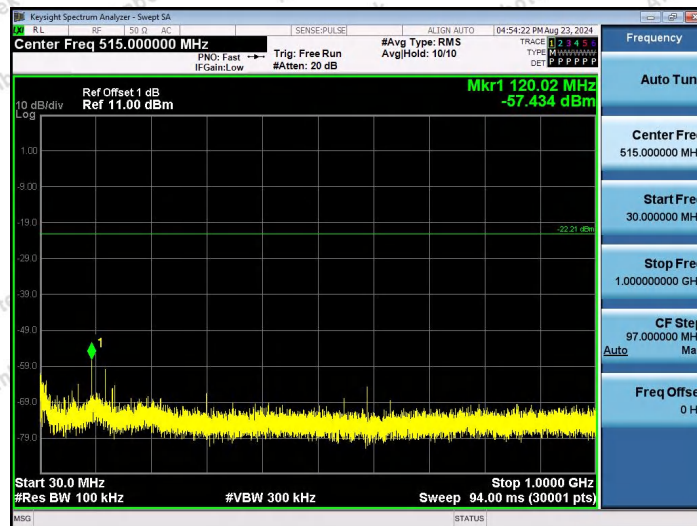


BLE_2M-Ant1-2402-1000~26500-PASS

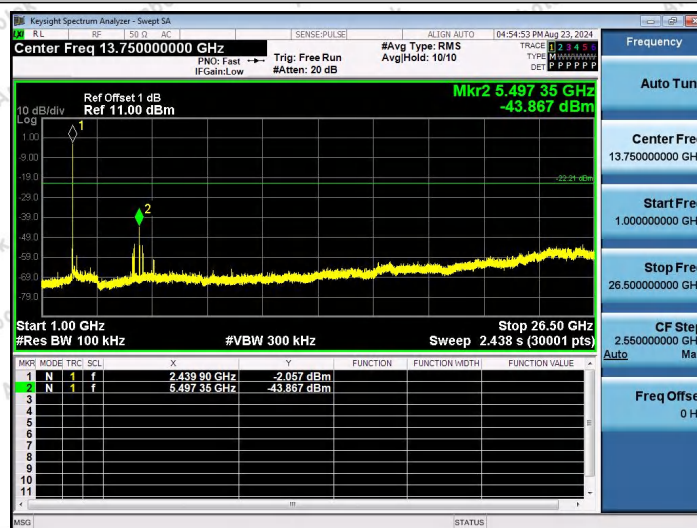




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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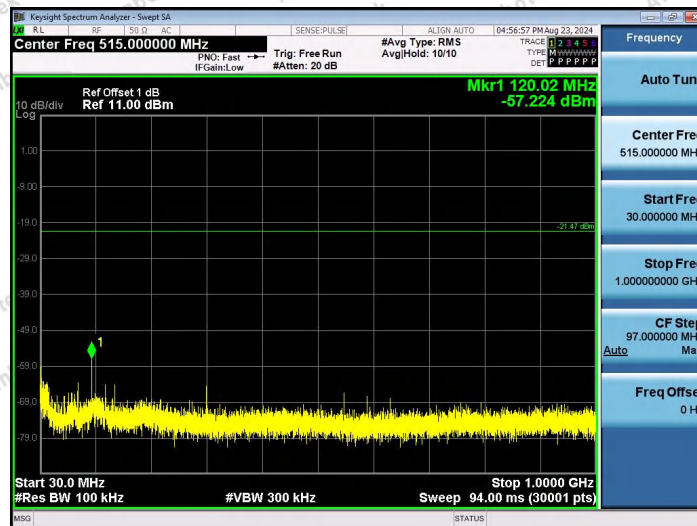


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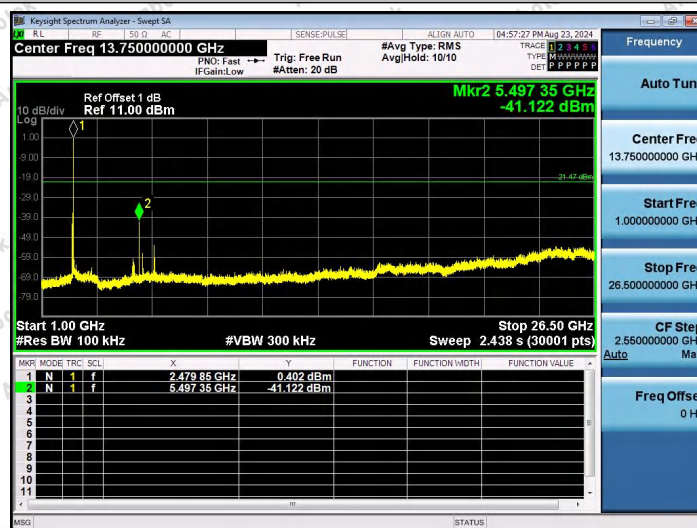




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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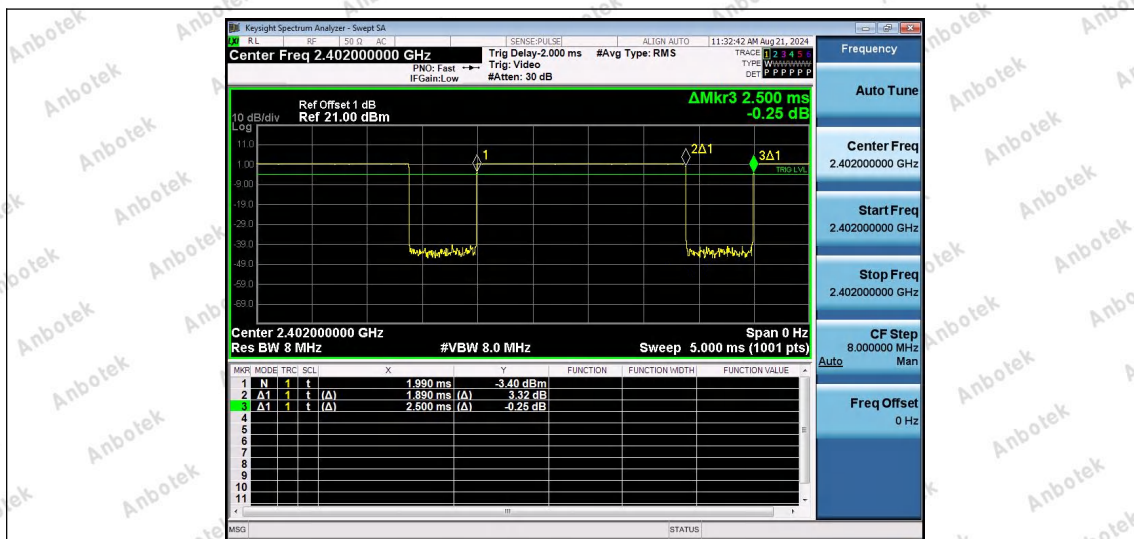
Appendix G: Duty Cycle

Test Result

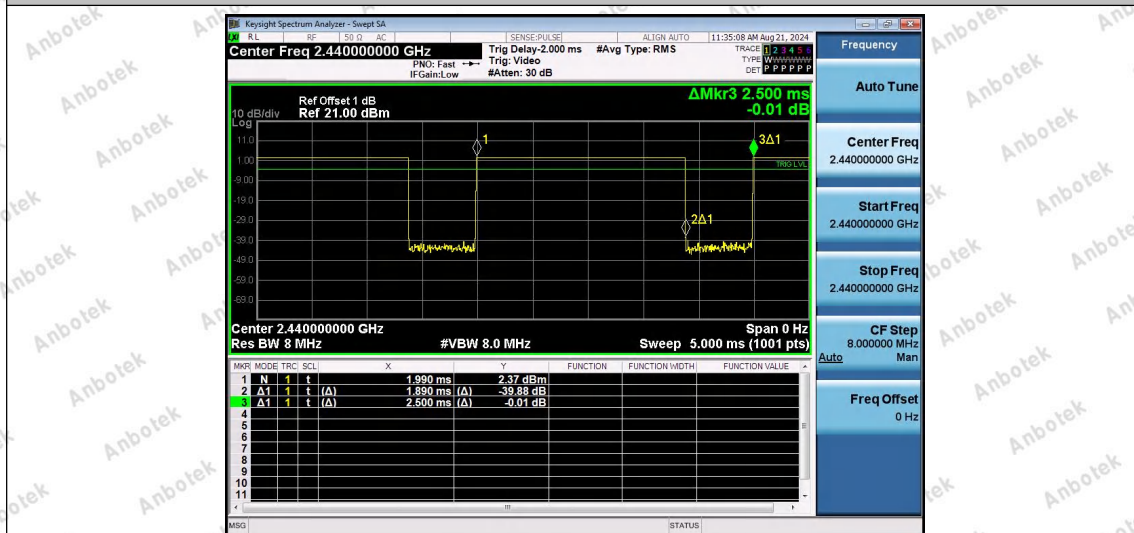
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.89	2.50	75.60	1.21
BLE_1M	Ant1	2440	1.89	2.50	75.60	1.21
BLE_1M	Ant1	2480	1.89	2.50	75.60	1.21
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00



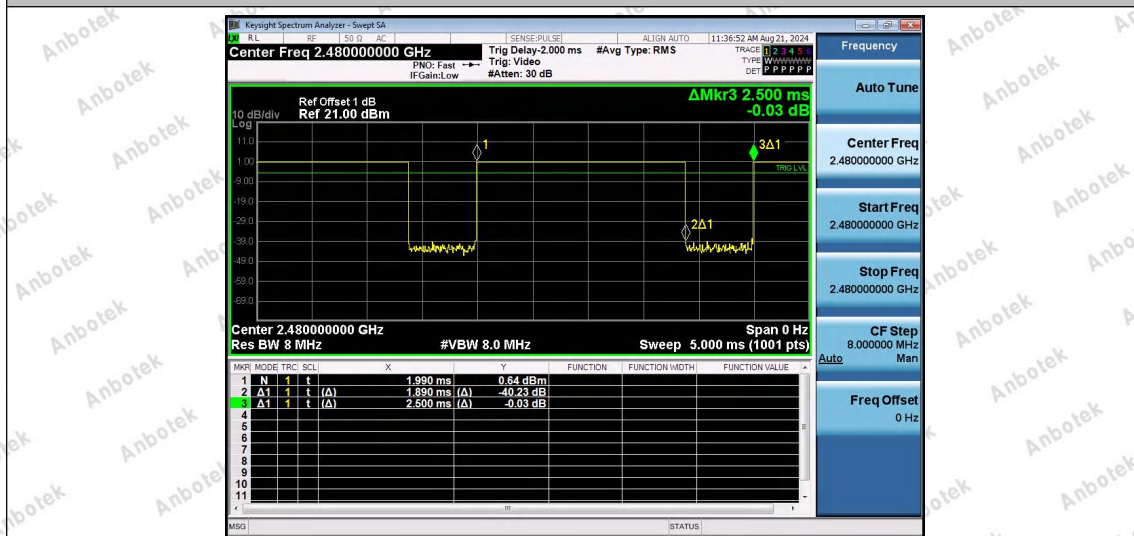
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

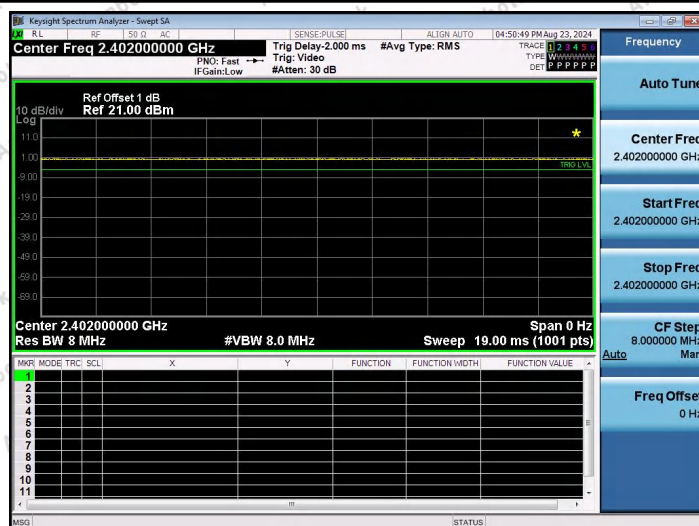
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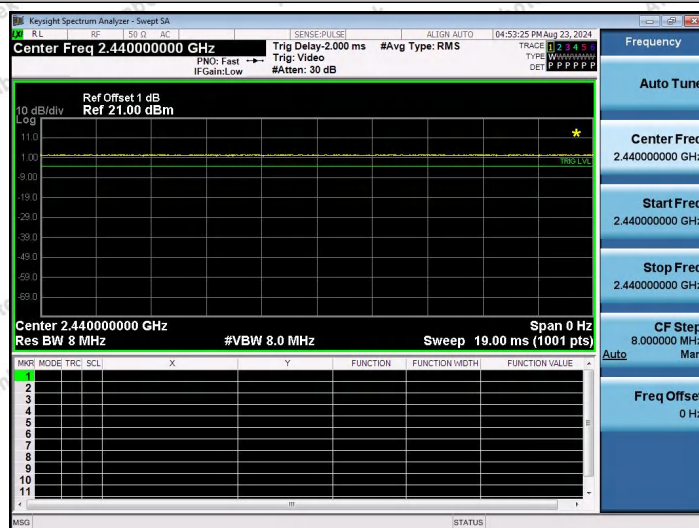


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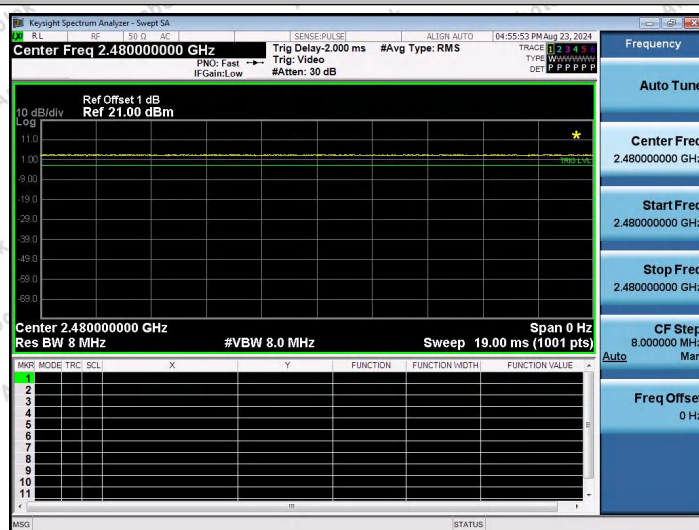




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

