

Appendix Test Data

Report No.:	182512C400394102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.5	Finish Test Date:	2024.8.20
Test Engineer:	Foker Wang	Auditor:	Justin Feng
Temperature:	24.5°C	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	0.644	2401.696	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.624	2439.700	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.636	2479.692	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.096	2401.452	2402.548	0.5	PASS
BLE_2M	Ant1	2440	1.100	2439.460	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.448	2480.560	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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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	1.0285	2401.5116	2402.5401	---	---
BLE_1M	Ant1	2440	1.0407	2439.5050	2440.5457	---	---
BLE_1M	Ant1	2480	1.0306	2479.5112	2480.5418	---	---
BLE_2M	Ant1	2402	2.0246	2401.0237	2403.0483	---	---
BLE_2M	Ant1	2440	2.0407	2439.0047	2441.0454	---	---
BLE_2M	Ant1	2480	2.0425	2479.0158	2481.0583	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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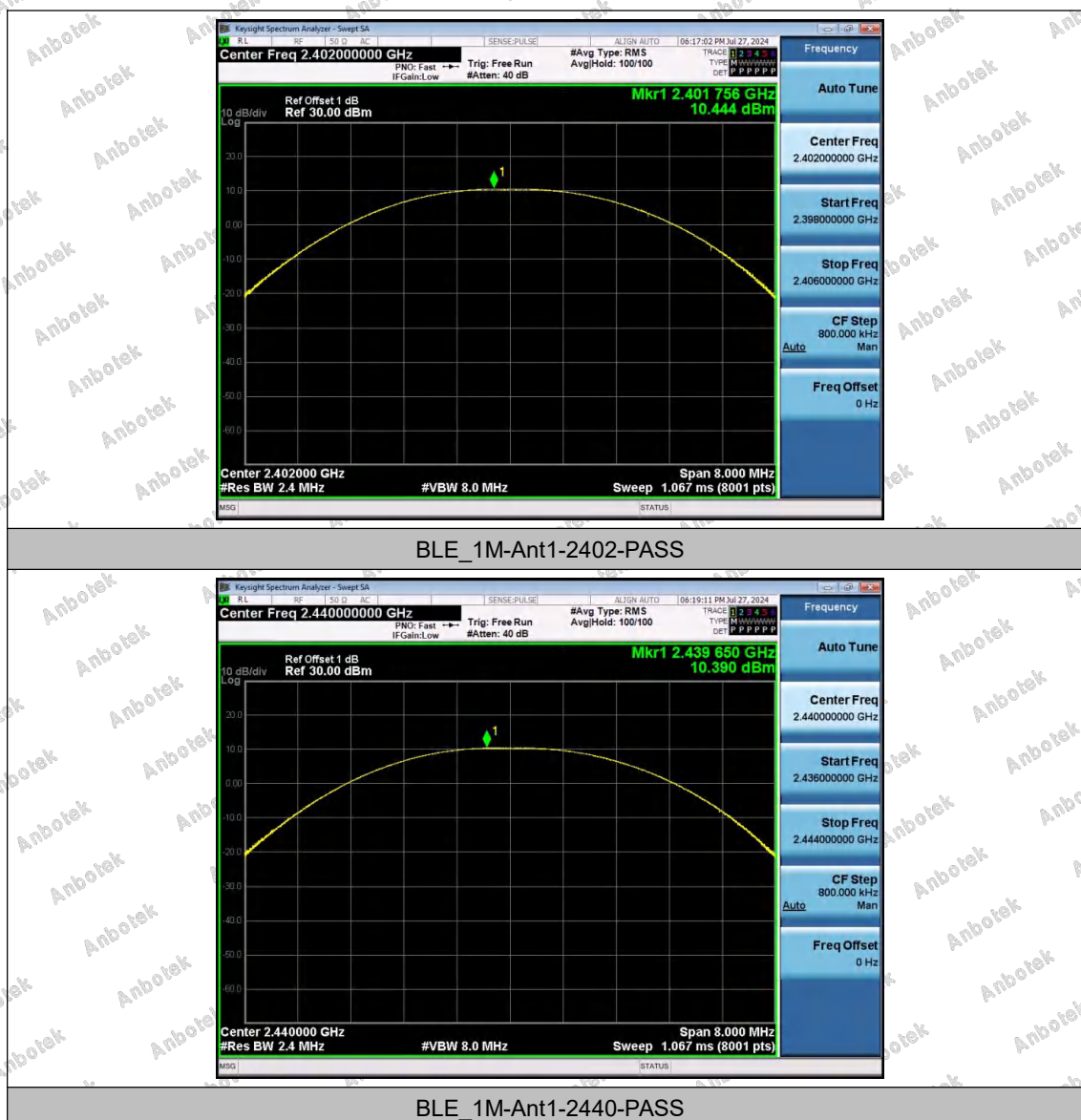


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.44	≤30	10.44	≤36	PASS
BLE_1M	Ant1	2440	10.39	≤30	10.39	≤36	PASS
BLE_1M	Ant1	2480	10.05	≤30	10.05	≤36	PASS
BLE_2M	Ant1	2402	10.44	≤30	10.44	≤36	PASS
BLE_2M	Ant1	2440	10.34	≤30	10.34	≤36	PASS
BLE_2M	Ant1	2480	10.00	≤30	10.00	≤36	PASS

Test Graphs Peak



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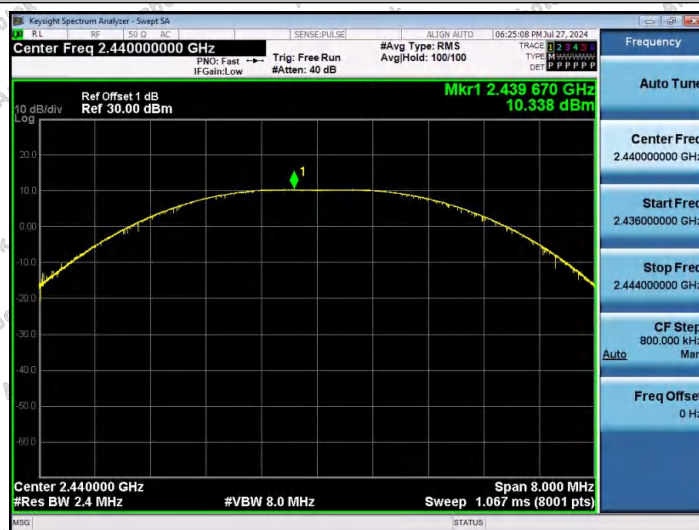




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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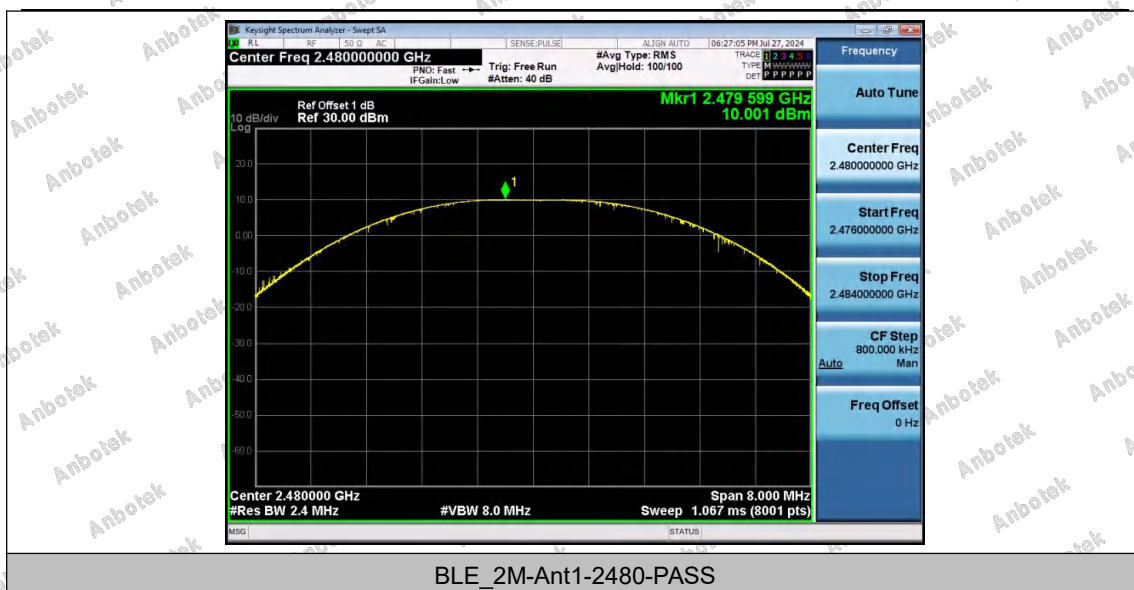
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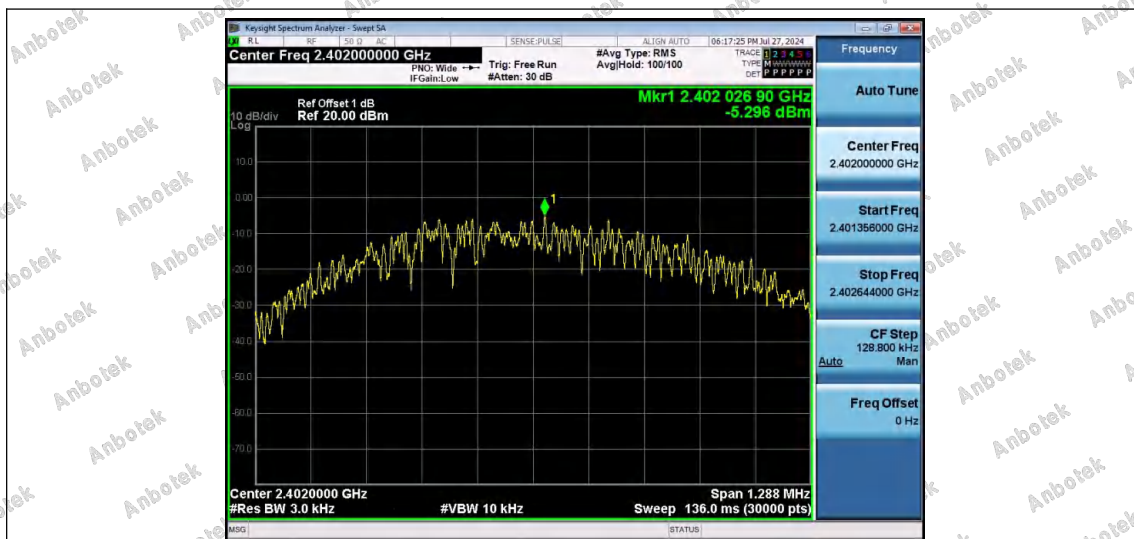
Appendix D: Maximum power spectral density

Test Result

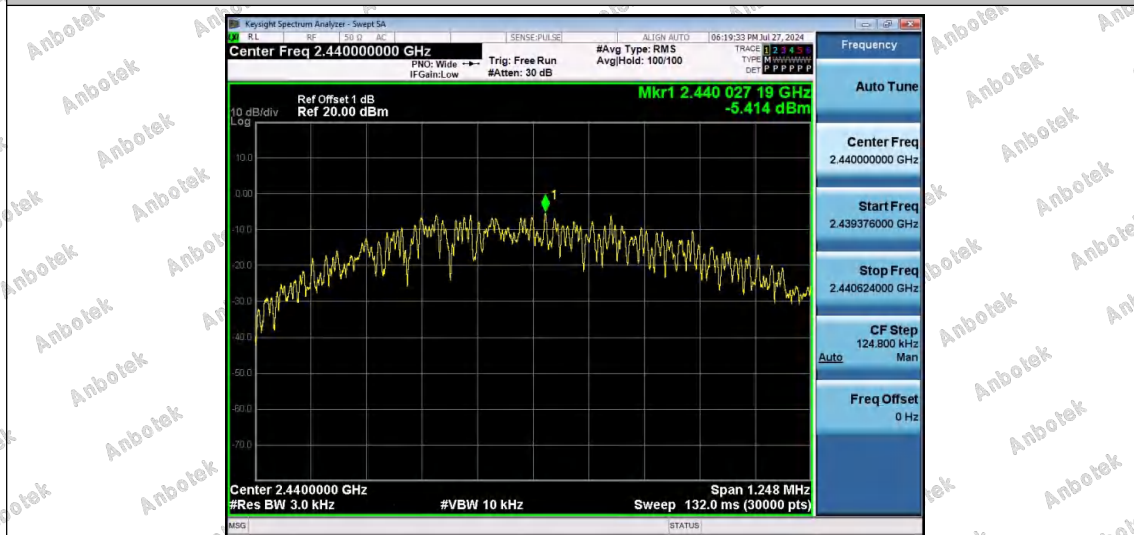
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.30	≤8.00	PASS
BLE_1M	Ant1	2440	-5.41	≤8.00	PASS
BLE_1M	Ant1	2480	-5.78	≤8.00	PASS
BLE_2M	Ant1	2402	-7.09	≤8.00	PASS
BLE_2M	Ant1	2440	-7.17	≤8.00	PASS
BLE_2M	Ant1	2480	-7.43	≤8.00	PASS



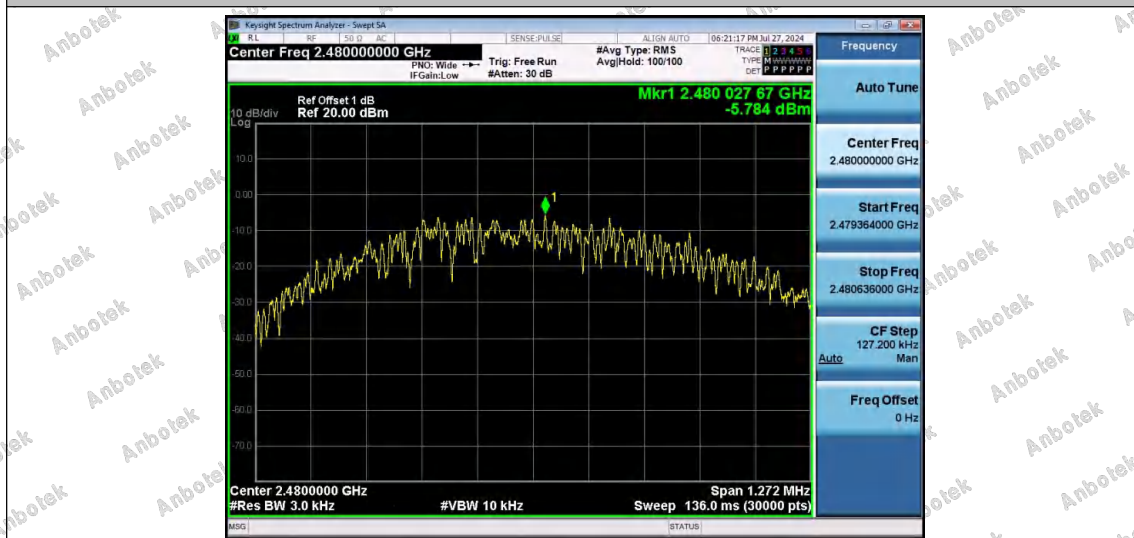
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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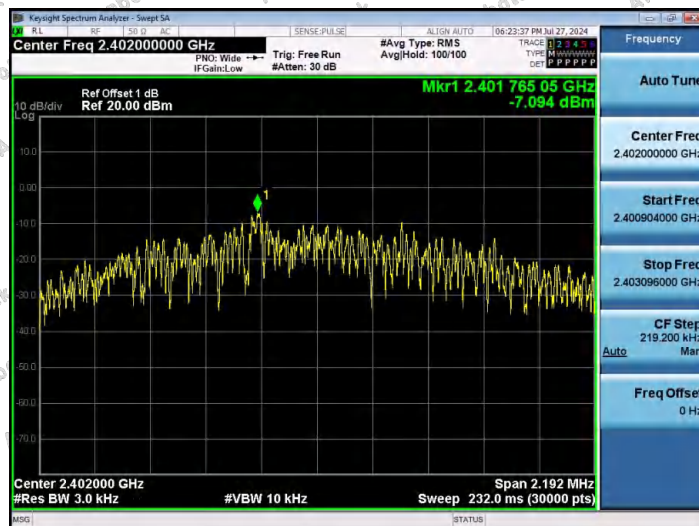
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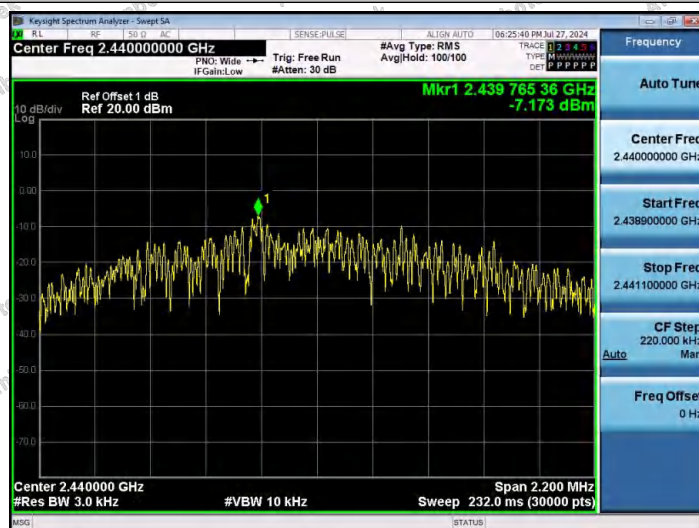


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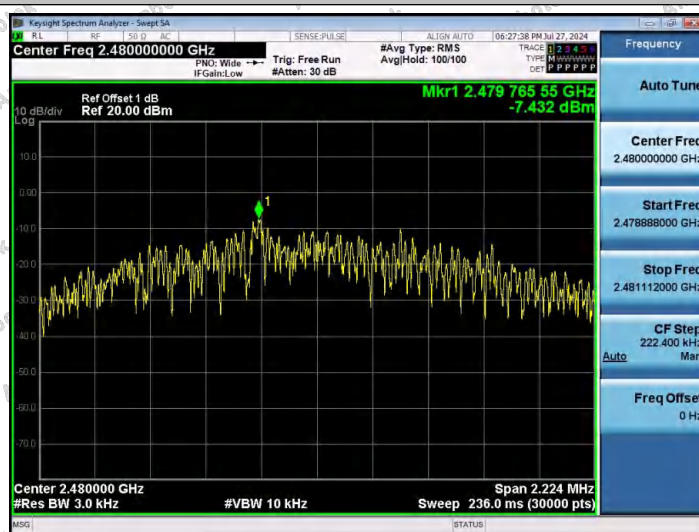




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



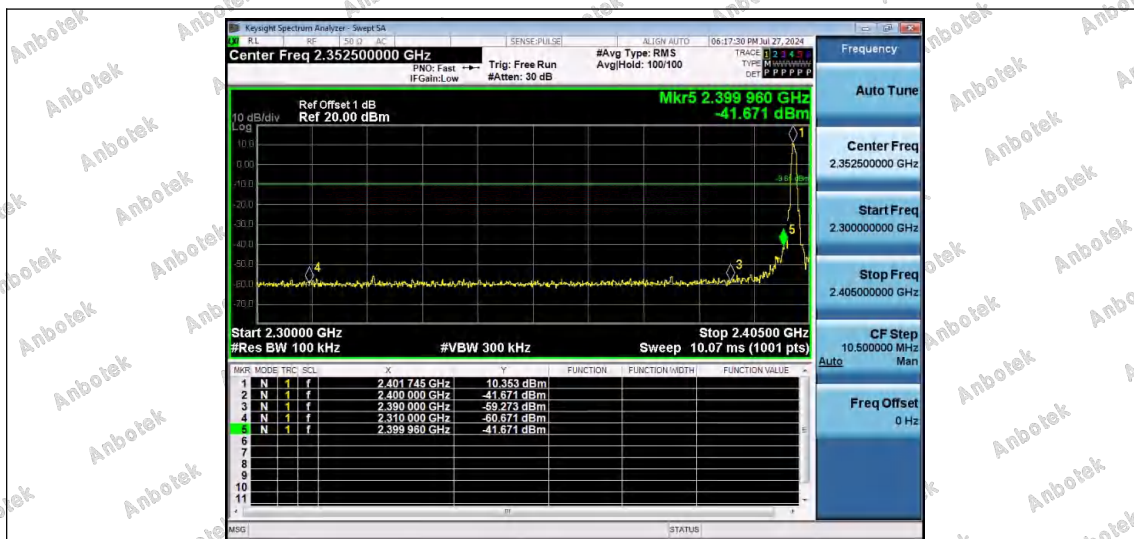
Appendix E: Band edge measurements

Test Result

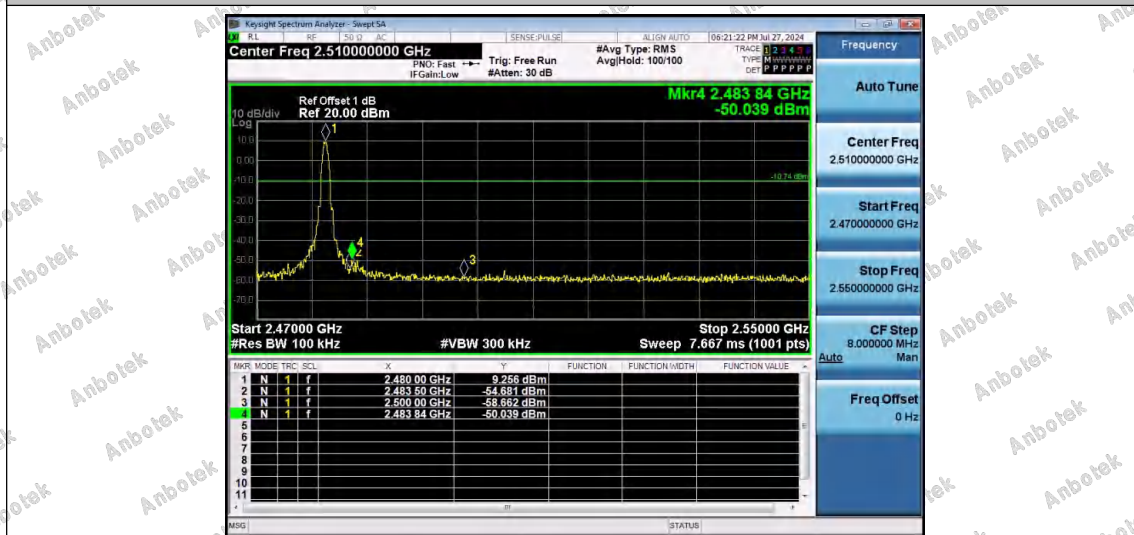
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.35	-41.67	≤-9.65	PASS
BLE_1M	Ant1	High	2480	9.26	-50.04	≤-10.74	PASS
BLE_2M	Ant1	Low	2402	9.14	-26.84	≤-10.86	PASS
BLE_2M	Ant1	High	2480	9.88	-42.9	≤-10.13	PASS



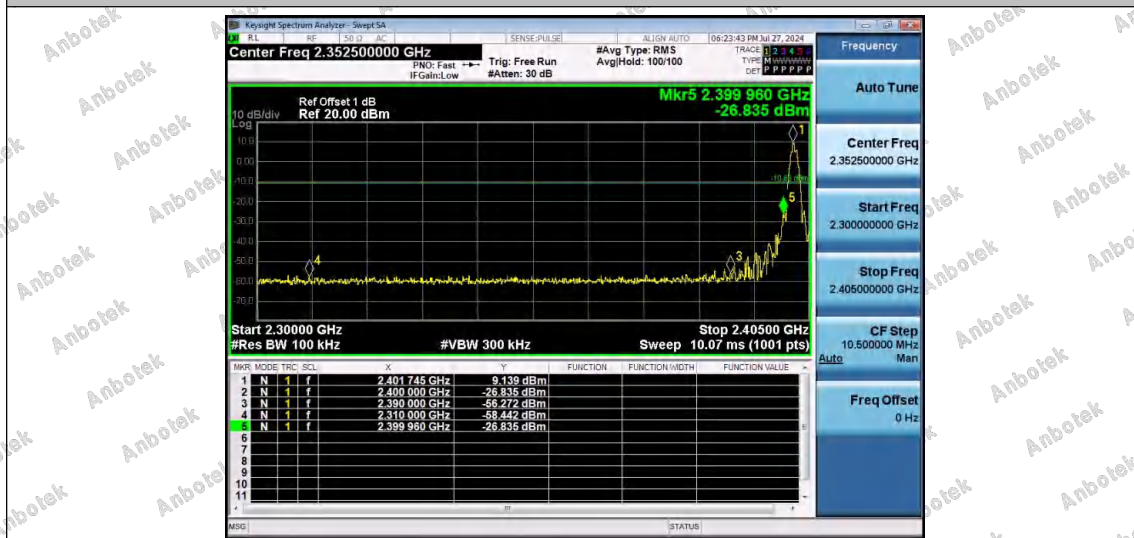
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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Appendix F: Conducted Spurious Emission

Test Result

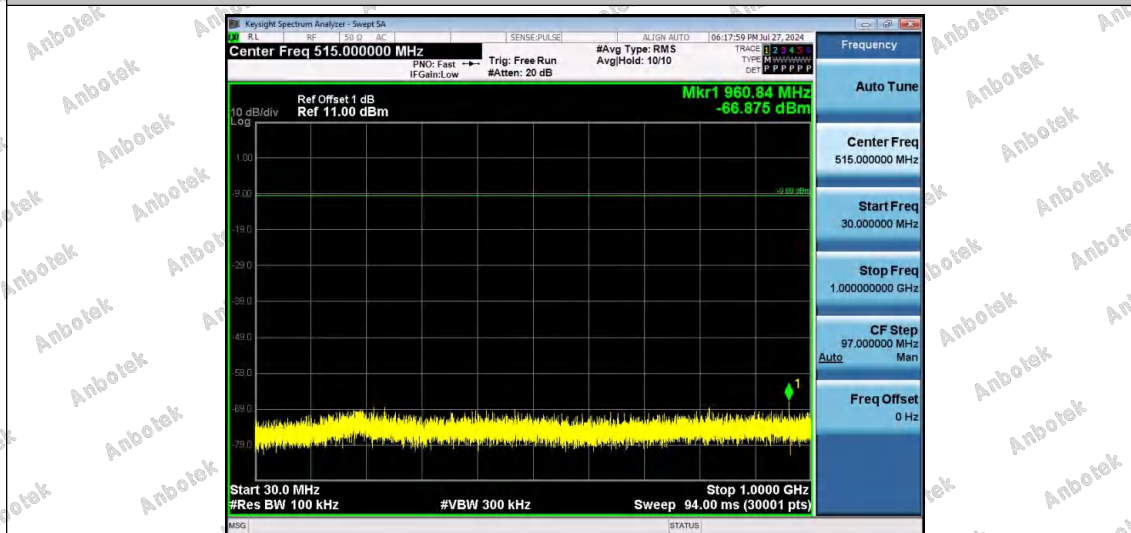
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	10.31	10.31	---	PASS
BLE_1M	Ant1	2402	30~1000	10.31	-66.88	≤-9.69	PASS
BLE_1M	Ant1	2402	1000~26500	10.31	-49.35	≤-9.69	PASS
BLE_1M	Ant1	2440	0~Reference	9.09	9.09	---	PASS
BLE_1M	Ant1	2440	30~1000	9.09	-67.97	≤-10.91	PASS
BLE_1M	Ant1	2440	1000~26500	9.09	-50.08	≤-10.91	PASS
BLE_1M	Ant1	2480	0~Reference	9.68	9.68	---	PASS
BLE_1M	Ant1	2480	30~1000	9.68	-68	≤-10.32	PASS
BLE_1M	Ant1	2480	1000~26500	9.68	-45.95	≤-10.32	PASS
BLE_2M	Ant1	2402	0~Reference	7.40	7.40	---	PASS
BLE_2M	Ant1	2402	30~1000	7.40	-68.65	≤-12.6	PASS
BLE_2M	Ant1	2402	1000~26500	7.40	-50.65	≤-12.6	PASS
BLE_2M	Ant1	2440	0~Reference	5.31	5.31	---	PASS
BLE_2M	Ant1	2440	30~1000	5.31	-65.81	≤-14.69	PASS
BLE_2M	Ant1	2440	1000~26500	5.31	-51.94	≤-14.69	PASS
BLE_2M	Ant1	2480	0~Reference	5.72	5.72	---	PASS
BLE_2M	Ant1	2480	30~1000	5.72	-68.35	≤-14.28	PASS
BLE_2M	Ant1	2480	1000~26500	5.72	-50.3	≤-14.28	PASS



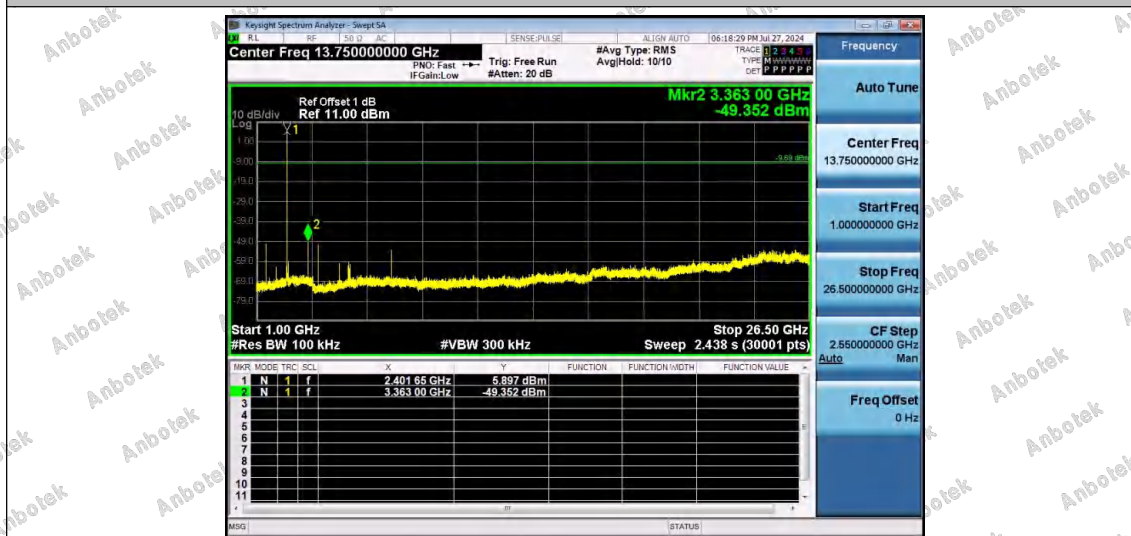
Test Graphs



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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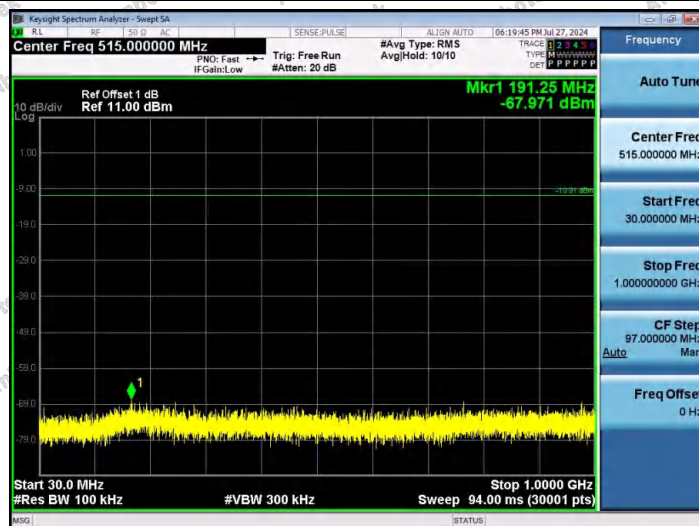
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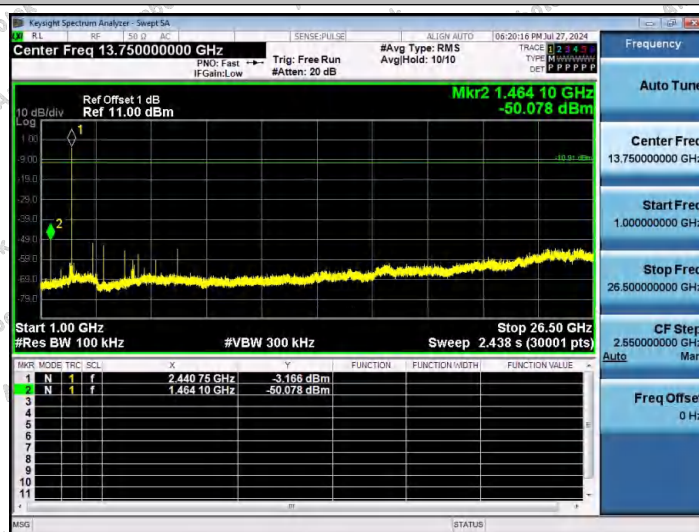




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

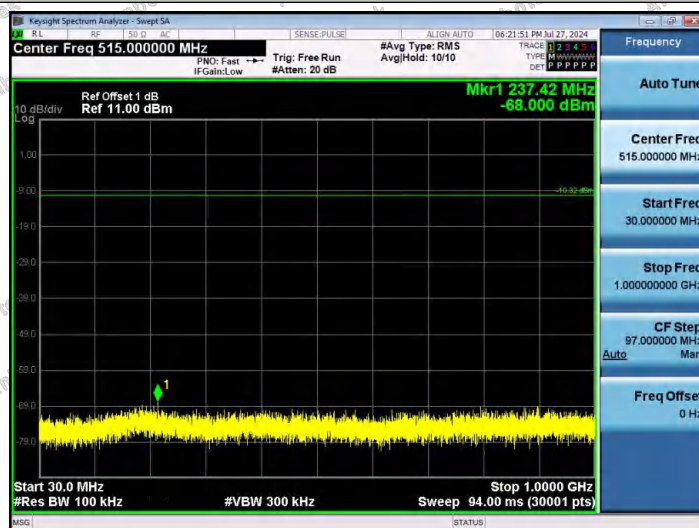


BLE_1M-Ant1-2440-1000~26500-PASS

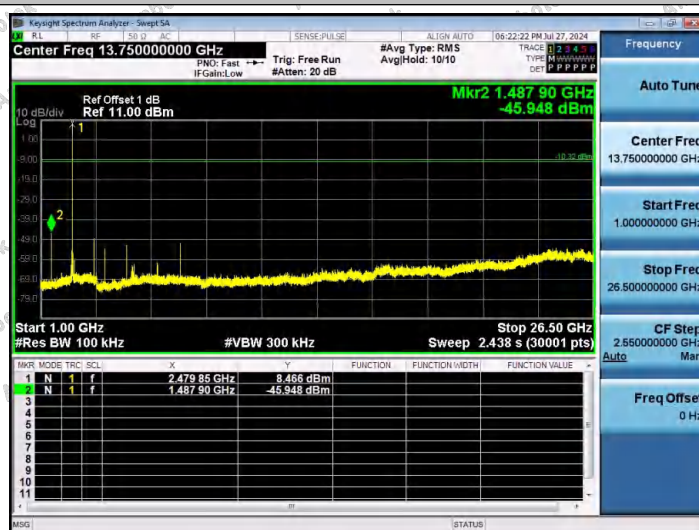




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

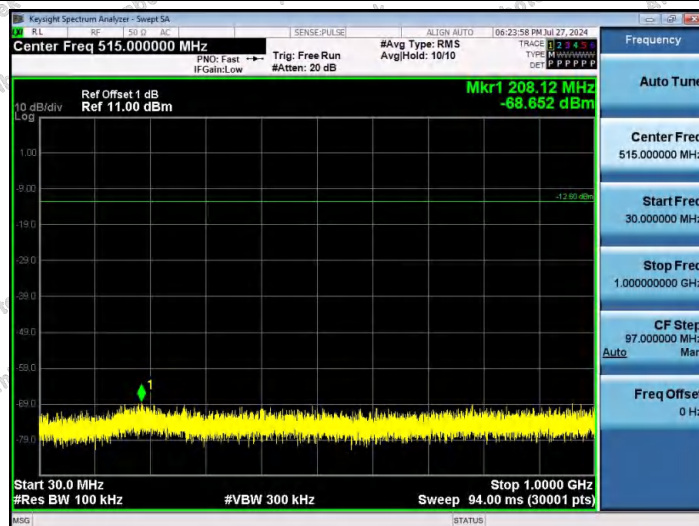


BLE_1M-Ant1-2480-1000~26500-PASS

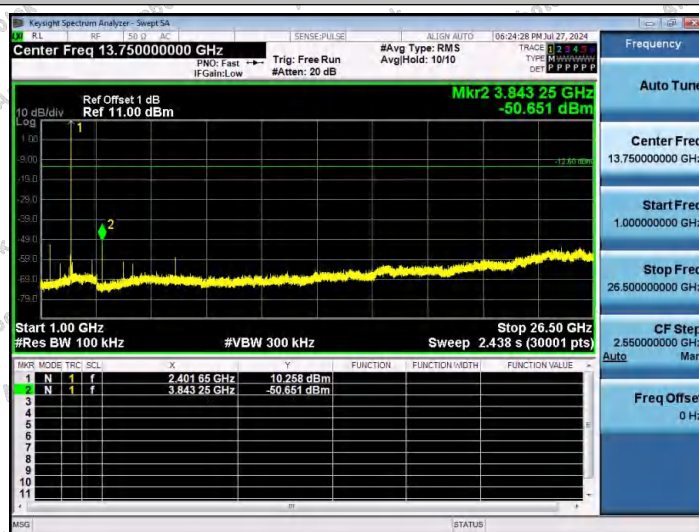




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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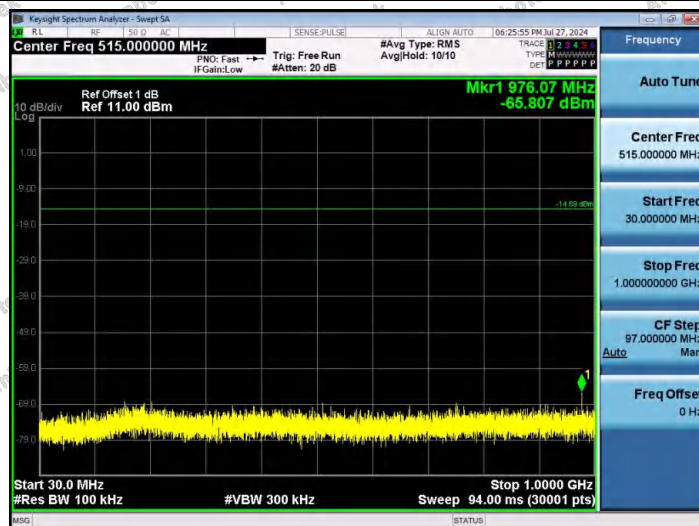
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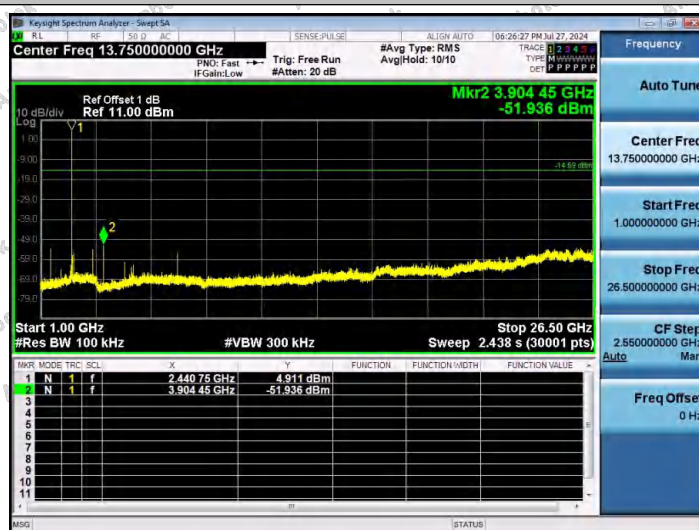




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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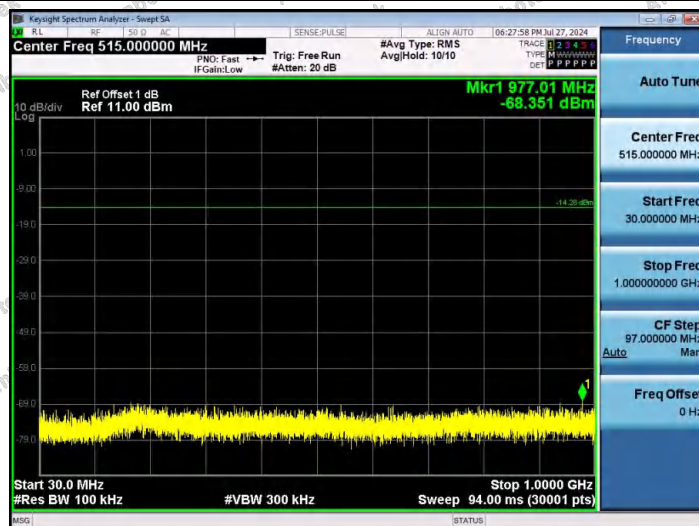
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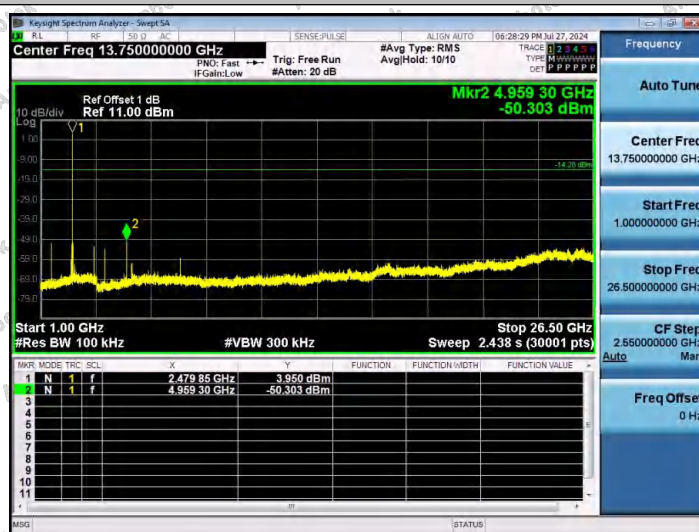




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



Appendix G: Duty Cycle

Test Result

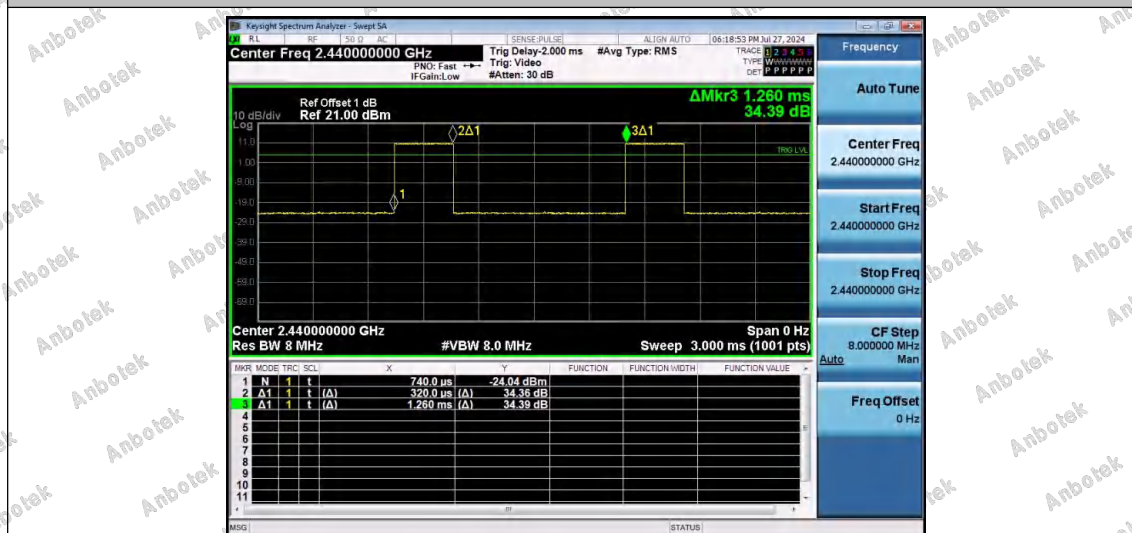
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.32	1.25	25.60	5.92
BLE_1M	Ant1	2440	0.32	1.26	25.40	5.95
BLE_1M	Ant1	2480	0.32	1.25	25.60	5.92
BLE_2M	Ant1	2402	0.18	1.26	14.29	8.45
BLE_2M	Ant1	2440	0.18	1.26	14.29	8.45
BLE_2M	Ant1	2480	0.18	1.26	14.29	8.45



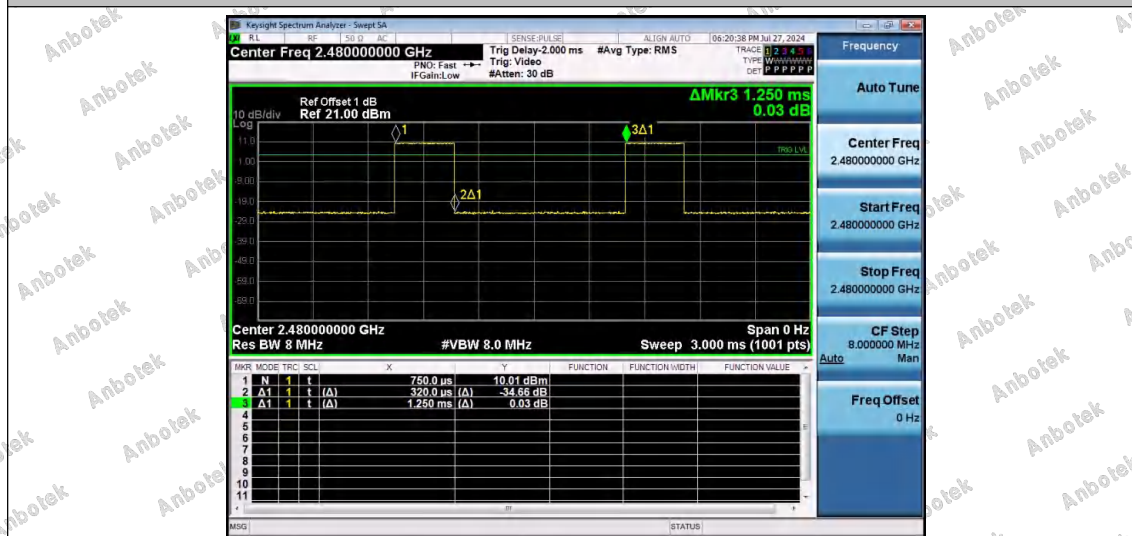
Test Graphs



NTNV-BLE 1M-Ant1-2402



NTNV-BLE 1M-Ant1-2440



NTNV-BLE 1M-Ant1-2480

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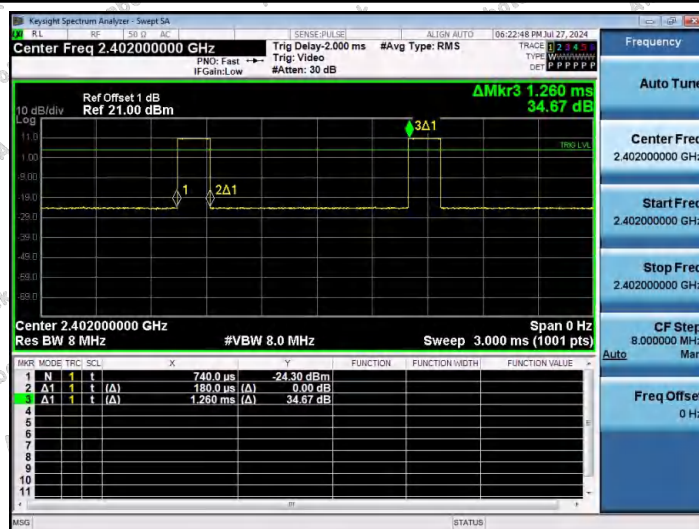
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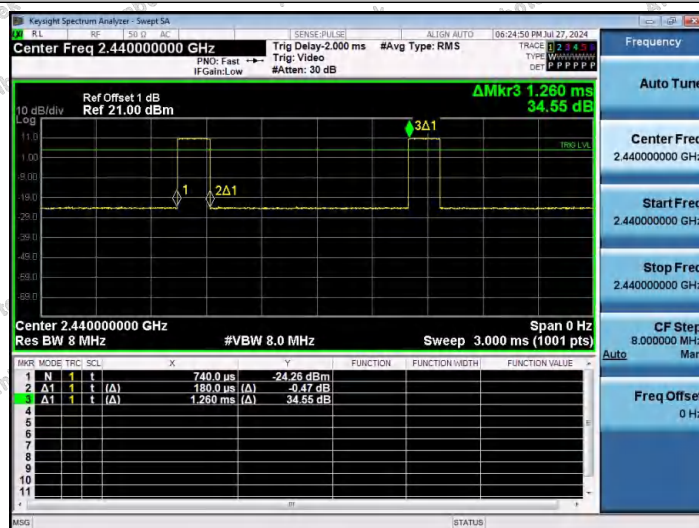
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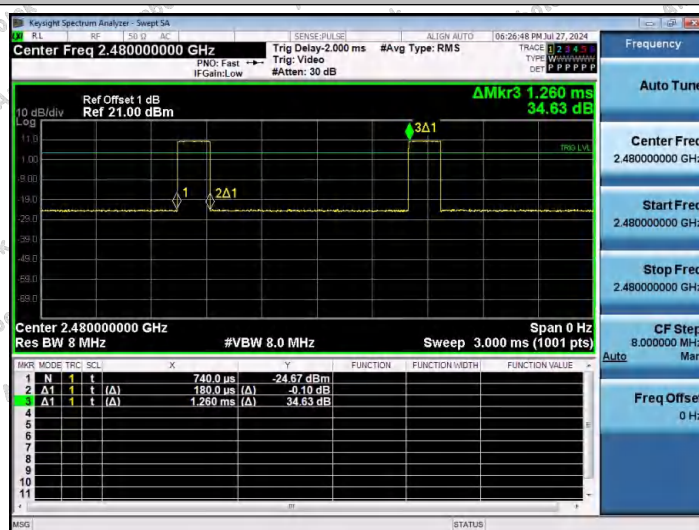




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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