

Appendix Test Data

Report No.:	18220WC40096501	Test Sample No.:	1-2-2
Start Test Date:	2024.05.15	Finish Test Date:	2024.05.23
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	24.3℃	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

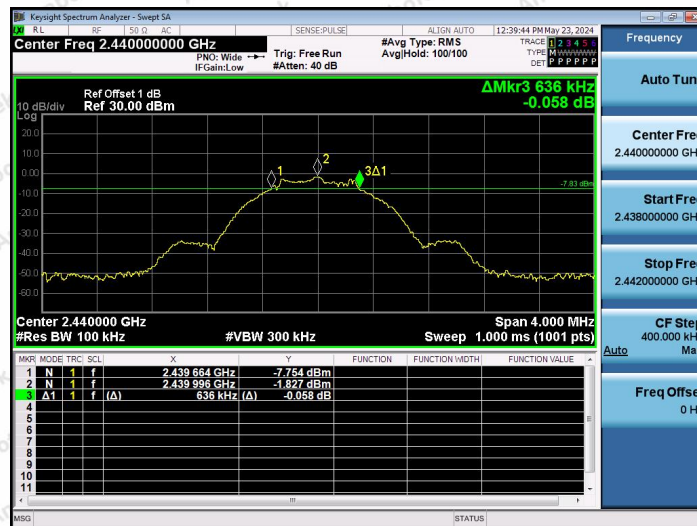
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.660	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.664	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.640	2479.668	2480.308	0.5	PASS



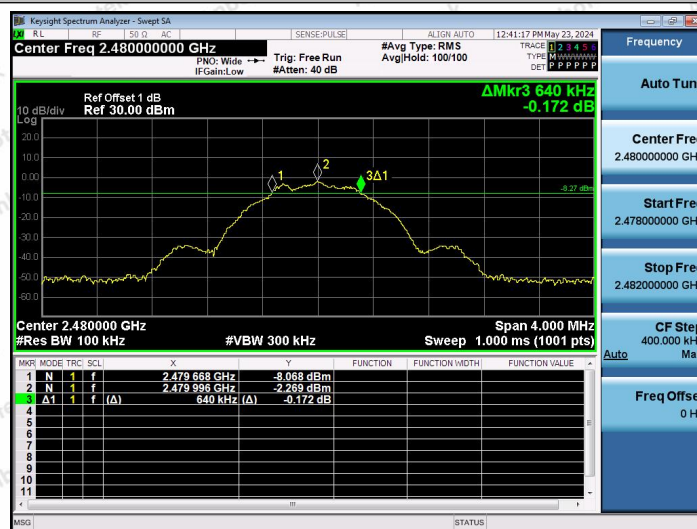
Test Graphs



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	1.0292	2401.4831	2402.5123	---	---
BLE_1M	Ant1	2440	1.0297	2439.4853	2440.5150	---	---
BLE_1M	Ant1	2480	1.0387	2479.4766	2480.5153	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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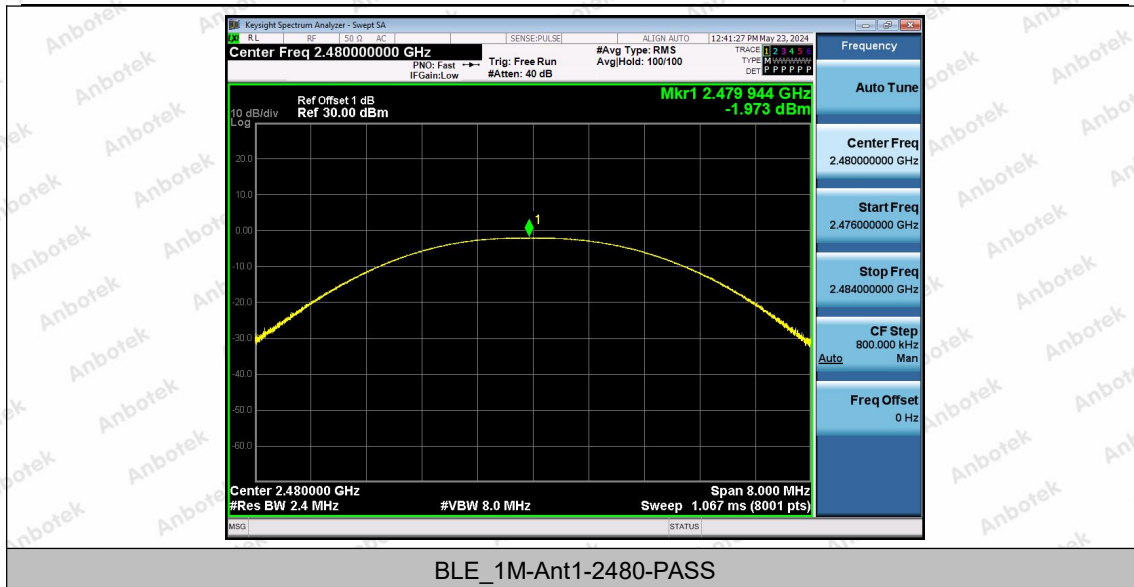
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.22	≤30	≤36	PASS
BLE_1M	Ant1	2440	-1.56	≤30	≤36	PASS
BLE_1M	Ant1	2480	-1.97	≤30	≤36	PASS

Test Graphs Peak



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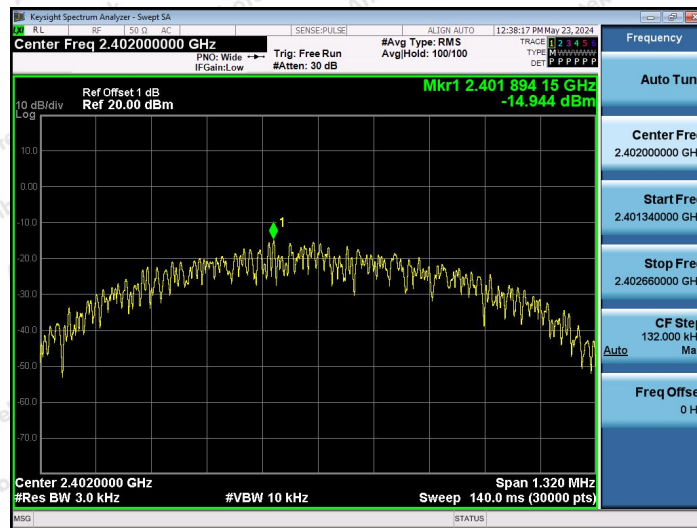
Appendix D: Maximum power spectral density

Test Result

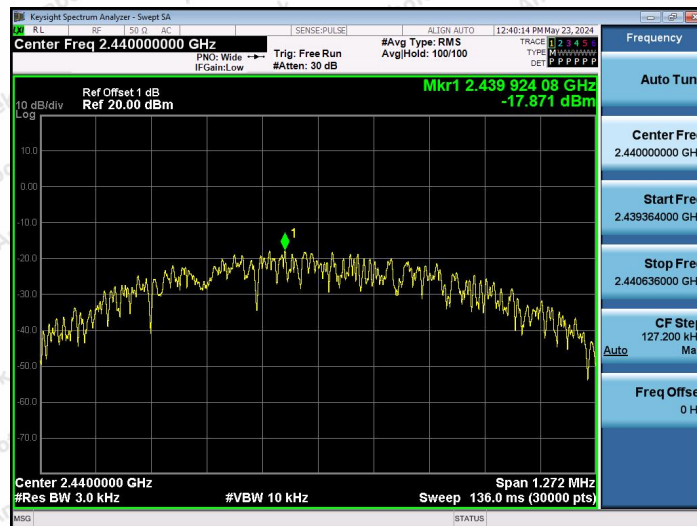
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.94	≤8.00	PASS
BLE_1M	Ant1	2440	-17.87	≤8.00	PASS
BLE_1M	Ant1	2480	-17.09	≤8.00	PASS



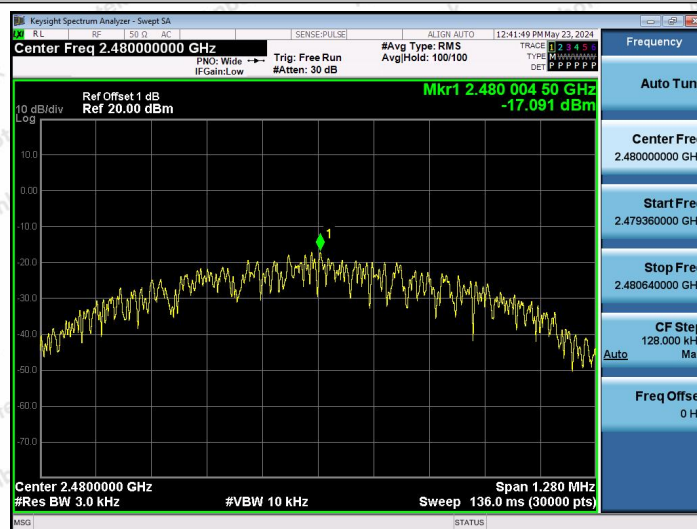
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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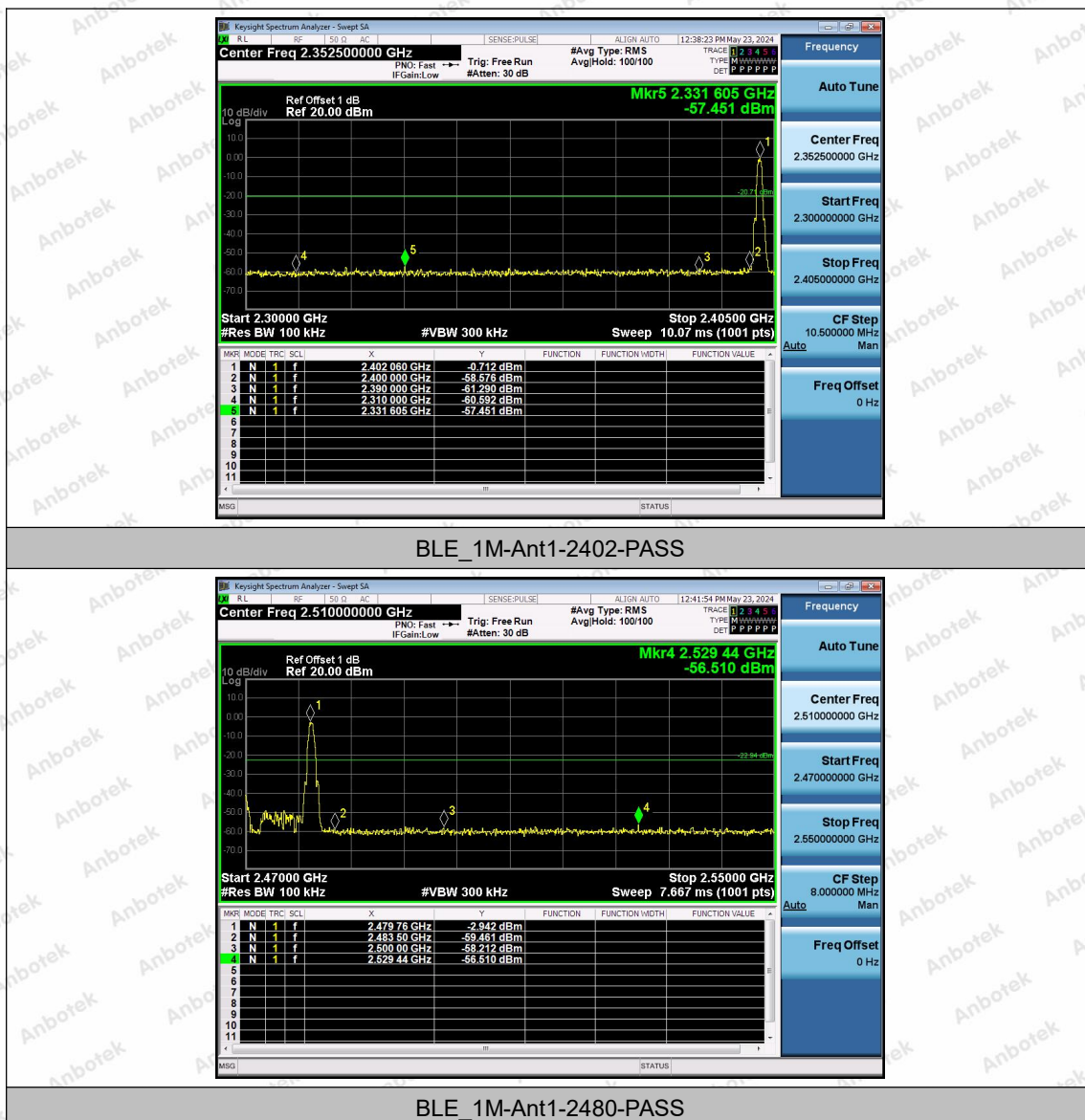
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.71	-57.45	≤-20.71	PASS
BLE_1M	Ant1	High	2480	-2.94	-56.51	≤-22.94	PASS



Test Graphs



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Appendix F: Conducted Spurious Emission

Test Result

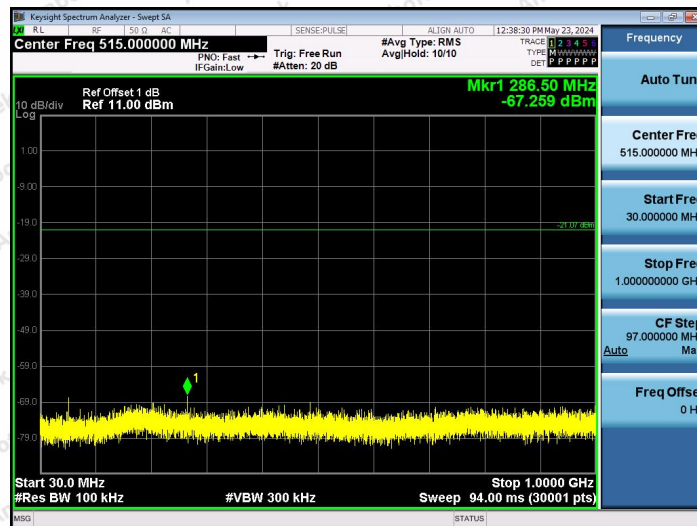
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.07	-1.07	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.07	-67.26	≤-21.07	PASS
BLE_1M	Ant1	2402	1000~26500	-1.07	-53.79	≤-21.07	PASS
BLE_1M	Ant1	2440	0~Reference	-2.83	-2.83	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.83	-61.57	≤-22.83	PASS
BLE_1M	Ant1	2440	1000~26500	-2.83	-53.8	≤-22.83	PASS
BLE_1M	Ant1	2480	0~Reference	-3.74	-3.74	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.74	-57.87	≤-23.74	PASS
BLE_1M	Ant1	2480	1000~26500	-3.74	-52.66	≤-23.74	PASS



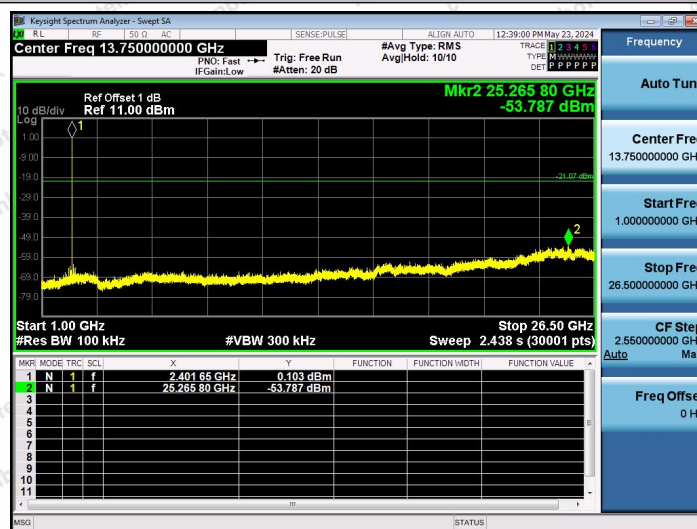
Test Graphs



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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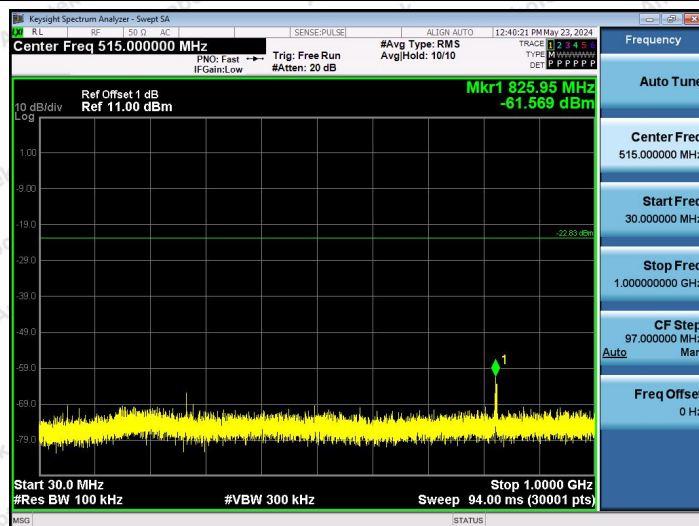


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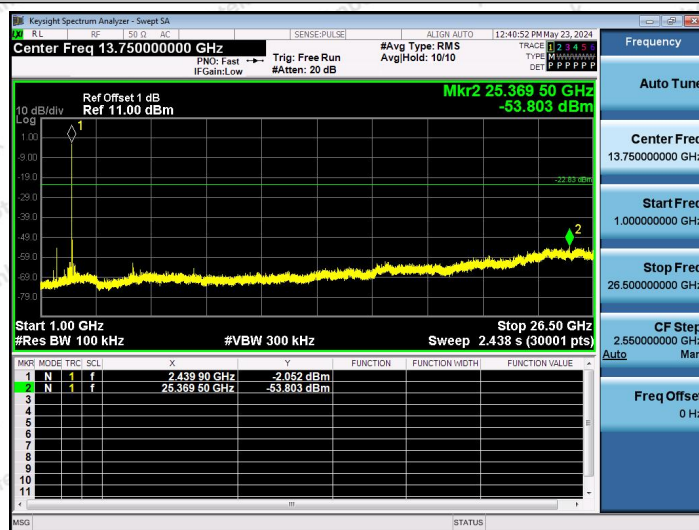




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

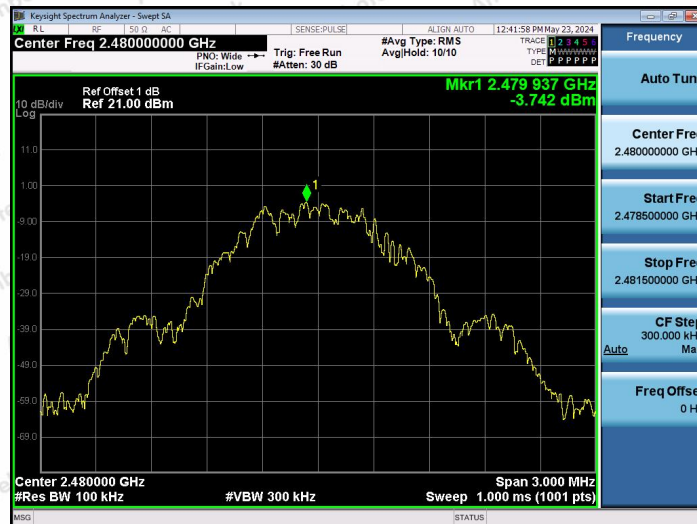
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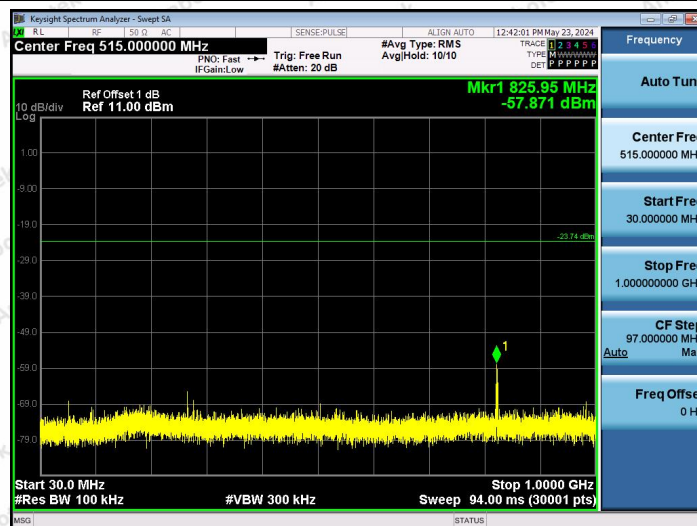


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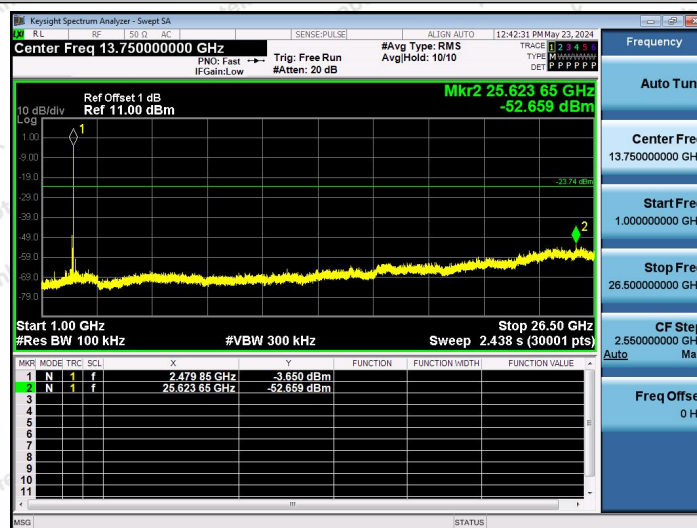




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS



Appendix G: Duty Cycle

Test Result

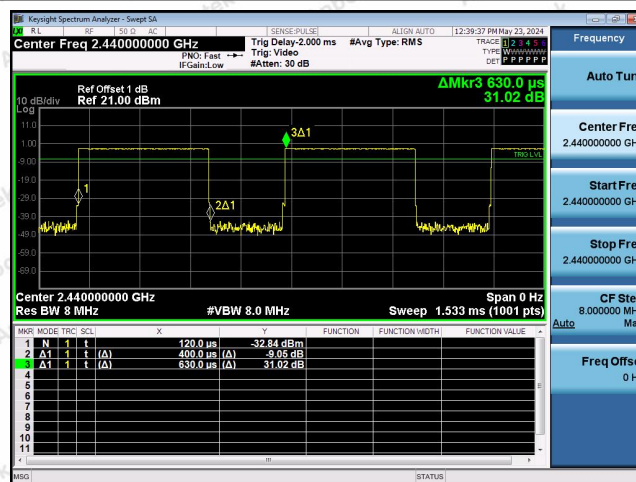
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.40	0.63	63.49	1.97



Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

---End---

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