

Appendix Test Data

Report No.:	18220WC40079701	Test Sample No.:	1-2-2
Start Test Date:	2024.04.27	Finish Test Date:	2024.04.28
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	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	0.716	2401.636	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.672	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.644	2480.336	0.5	PASS

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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	1.0390	2401.4894	2402.5284	---	---
BLE_1M	Ant1	2440	1.0374	2439.4896	2440.5270	---	---
BLE_1M	Ant1	2480	1.0279	2479.4943	2480.5222	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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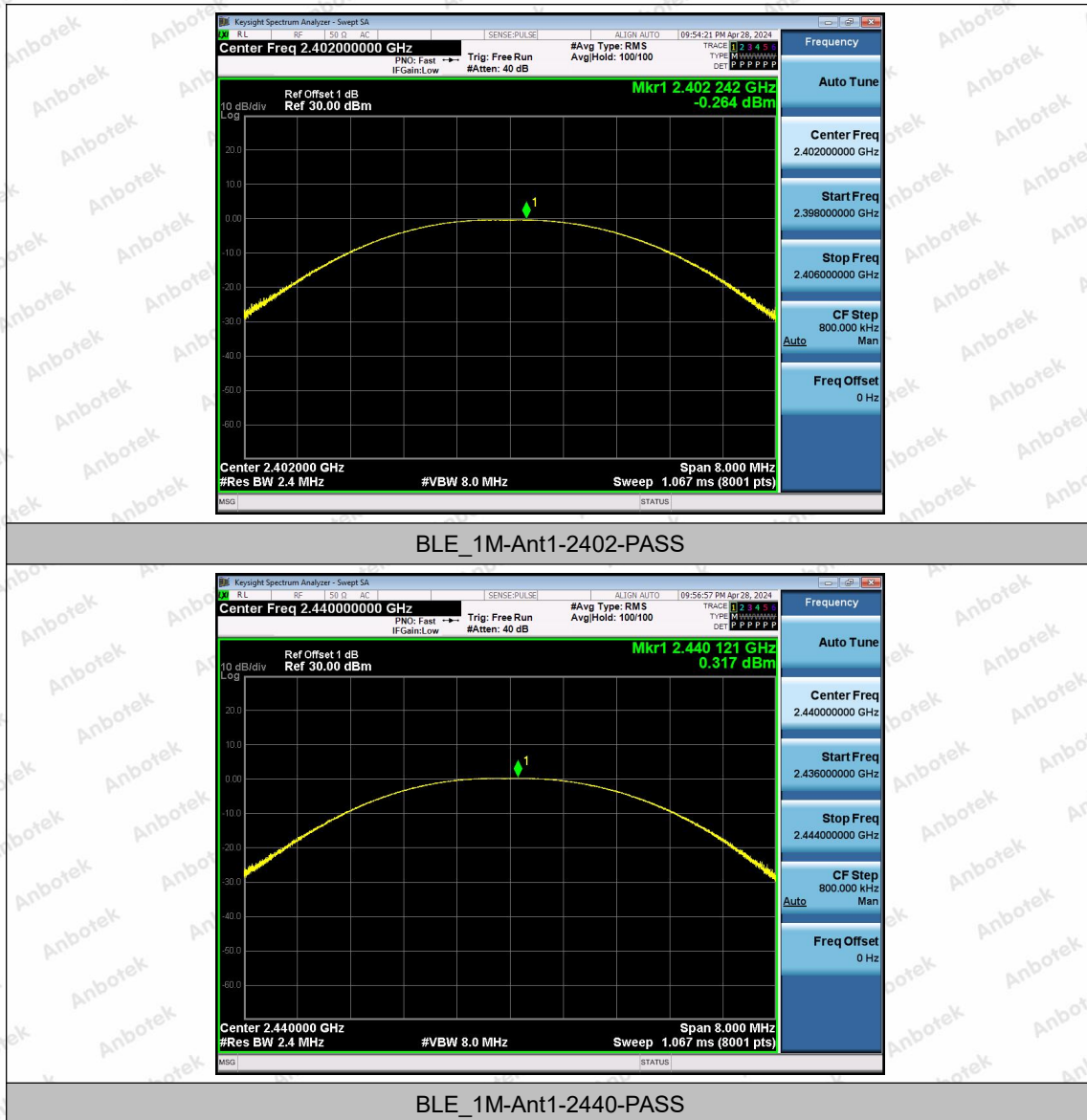


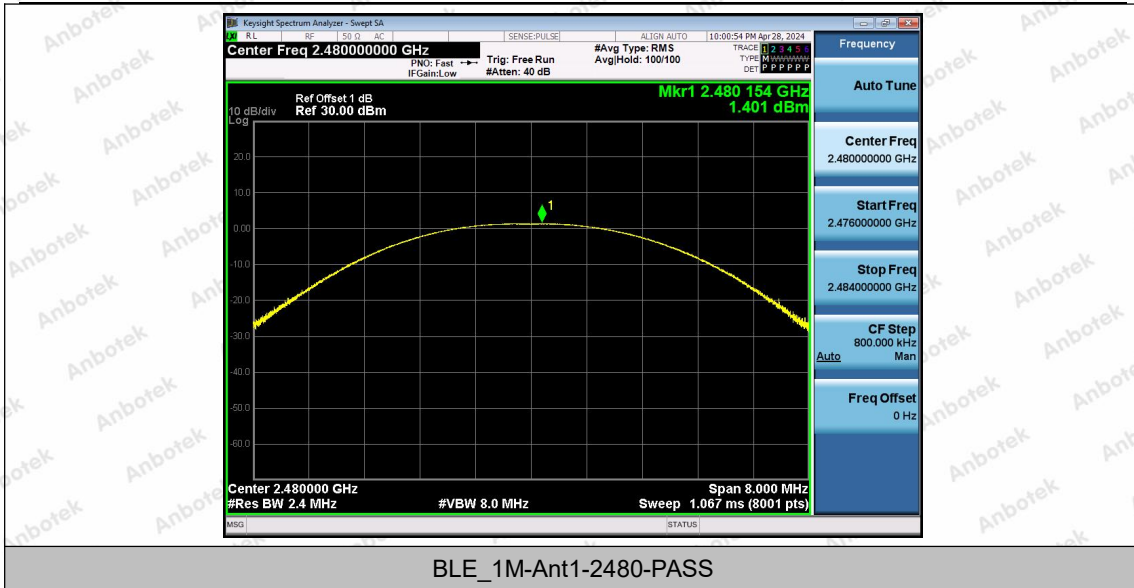
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.26	≤30	PASS
BLE_1M	Ant1	2440	0.32	≤30	PASS
BLE_1M	Ant1	2480	1.40	≤30	PASS

Test Graphs Peak





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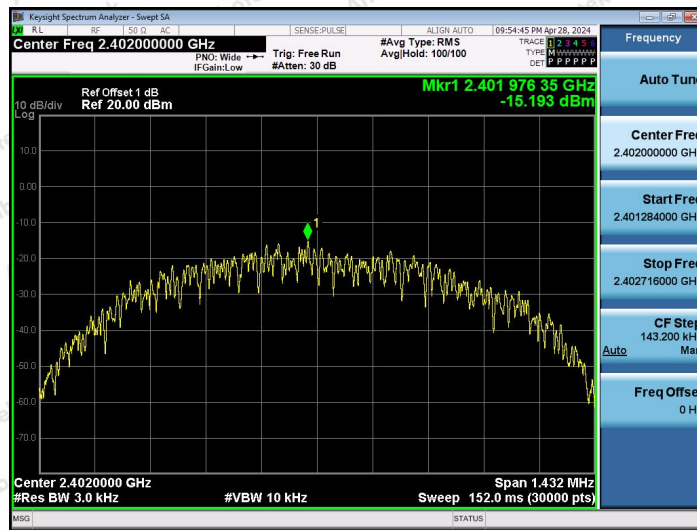
Appendix D: Maximum power spectral density

Test Result

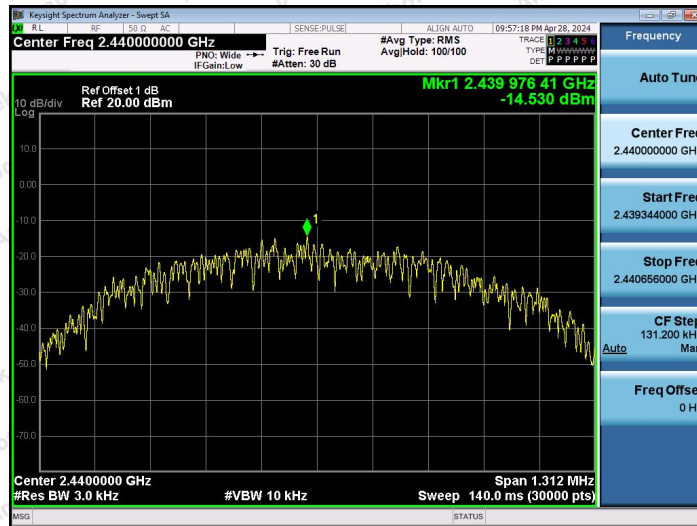
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.19	≤8.00	PASS
BLE_1M	Ant1	2440	-14.53	≤8.00	PASS
BLE_1M	Ant1	2480	-13.49	≤8.00	PASS



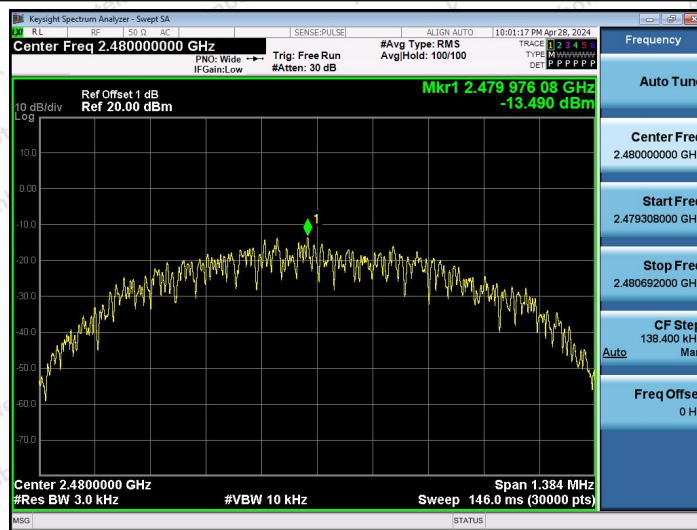
Test Graphs



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	-0.90	-53.86	≤-20.9	PASS
BLE_1M	Ant1	High	2480	0.87	-52.91	≤-19.13	PASS

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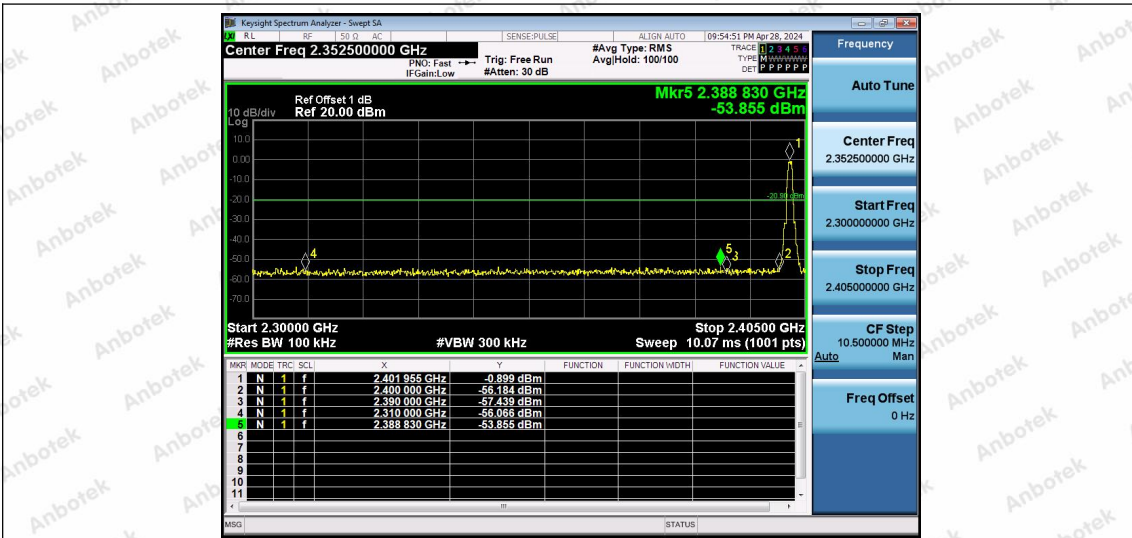
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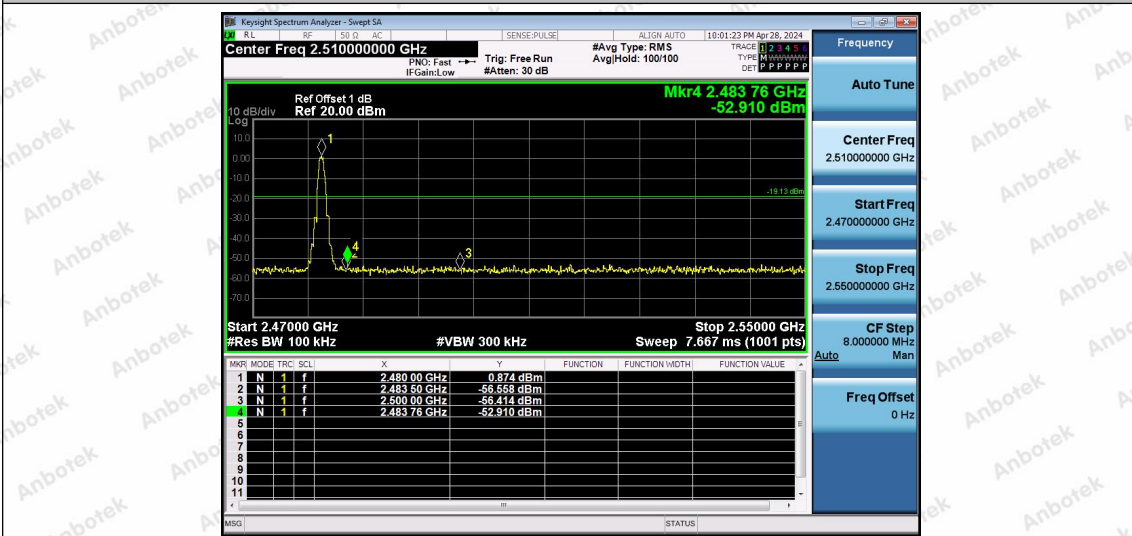
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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

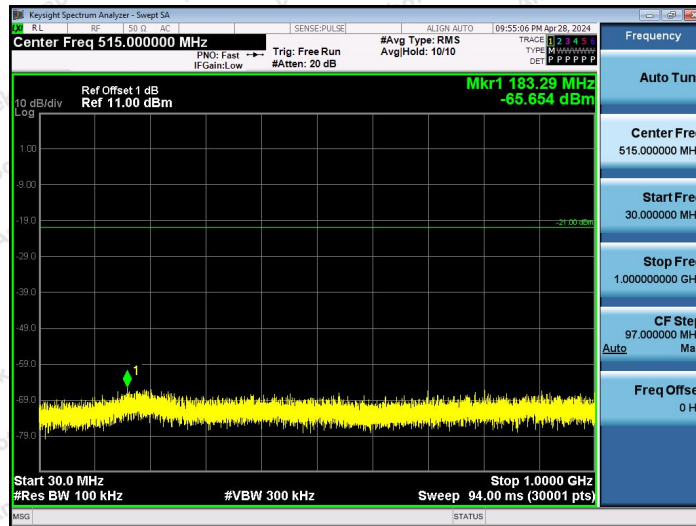
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.00	-1.00	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.00	-65.65	≤-21	PASS
BLE_1M	Ant1	2402	1000~26500	-1.00	-49.02	≤-21	PASS
BLE_1M	Ant1	2440	0~Reference	-0.36	-0.36	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.36	-64.87	≤-20.36	PASS
BLE_1M	Ant1	2440	1000~26500	-0.36	-48.07	≤-20.36	PASS
BLE_1M	Ant1	2480	0~Reference	0.79	0.79	---	PASS
BLE_1M	Ant1	2480	30~1000	0.79	-65.29	≤-19.21	PASS
BLE_1M	Ant1	2480	1000~26500	0.79	-47.99	≤-19.21	PASS



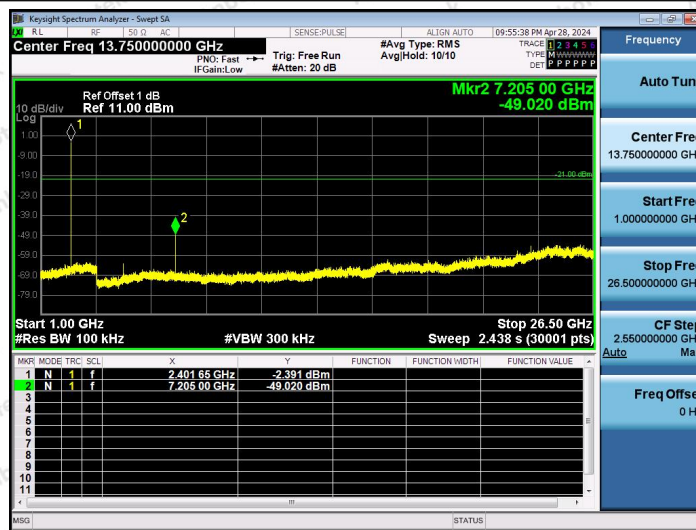
Test Graphs



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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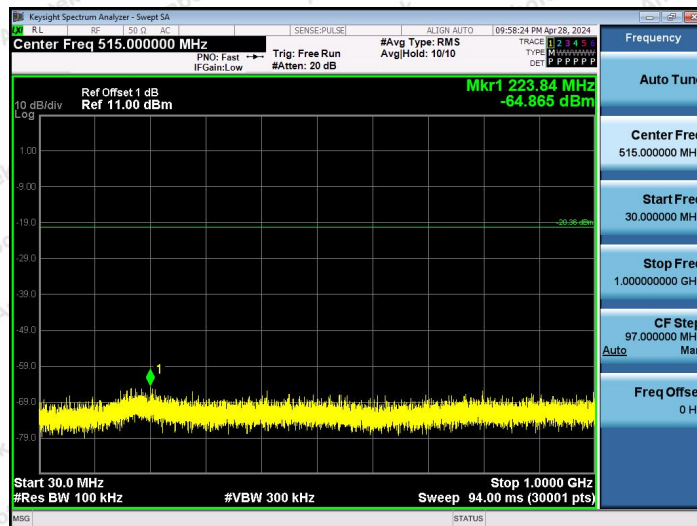
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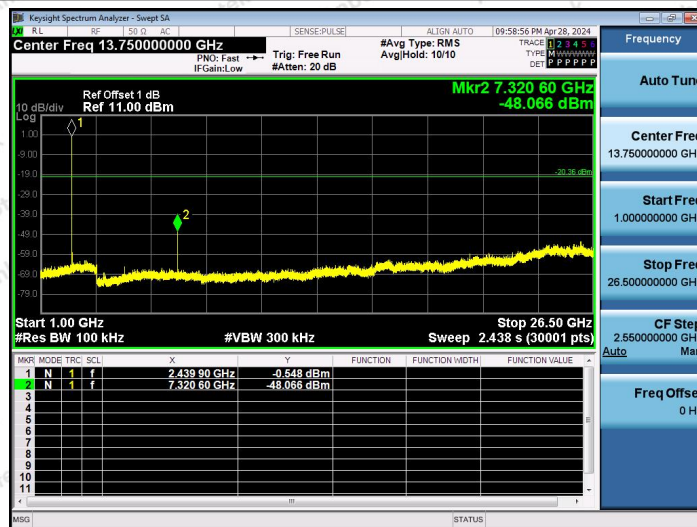




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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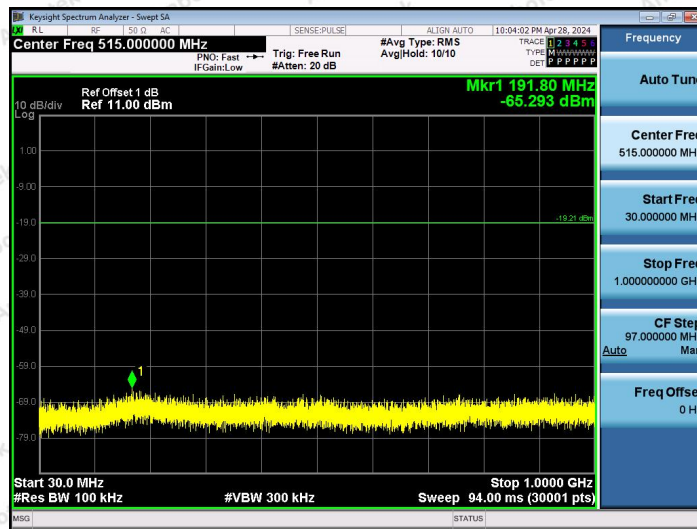
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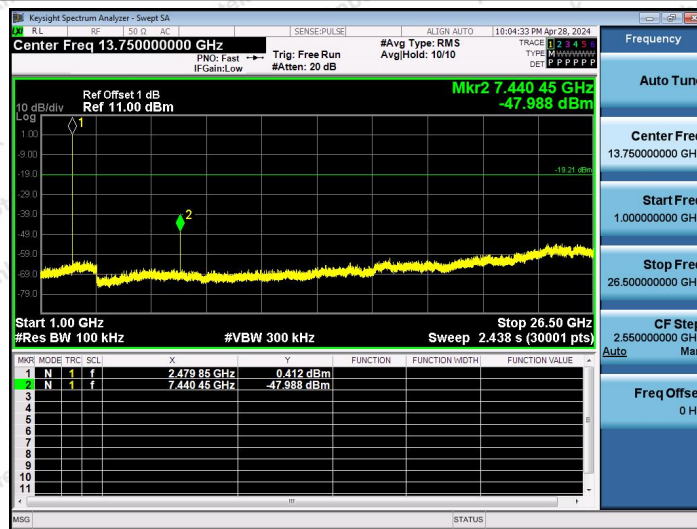




BLE_1M-Ant1-2480-0~Reference-PASS



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	19.00	19.00	100	0.00
BLE_1M	Ant1	2440	19.00	19.00	100	0.00
BLE_1M	Ant1	2480	19.00	19.00	100	0.00



Test Graphs



---End---

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