

Appendix Test Data

Report No.:	18220WC40097102	Test Sample No.:	1-2-2
Start Test Date:	2024.5.17	Finish Test Date:	2024.6.13
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	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	0.704	2401.644	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.672	2439.656	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.704	2479.640	2480.344	0.5	PASS
BLE_2M	Ant1	2402	1.316	2401.336	2402.652	0.5	PASS
BLE_2M	Ant1	2440	1.132	2439.440	2440.572	0.5	PASS
BLE_2M	Ant1	2480	1.244	2479.344	2480.588	0.5	PASS



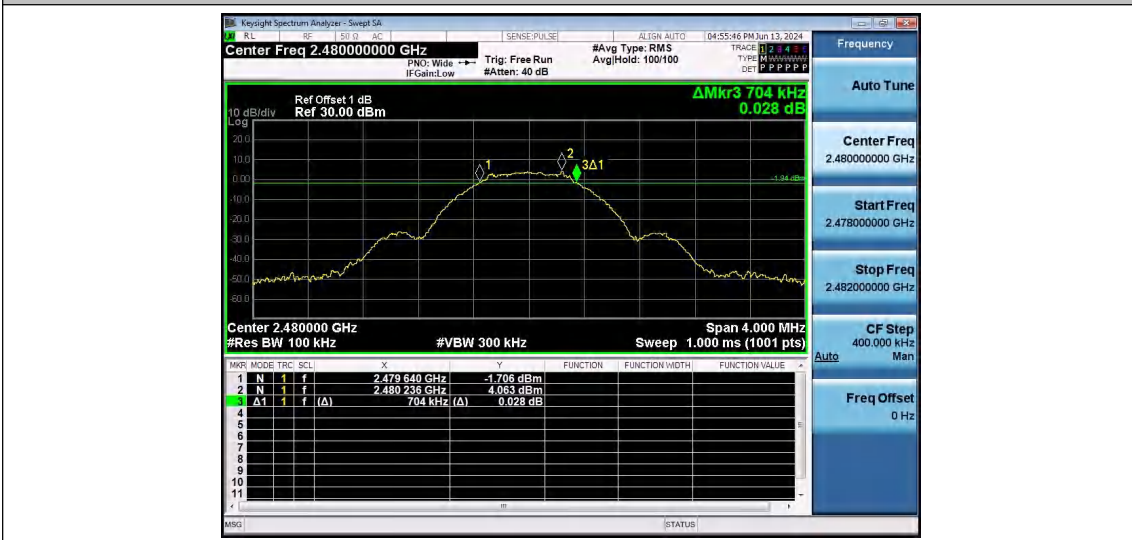
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



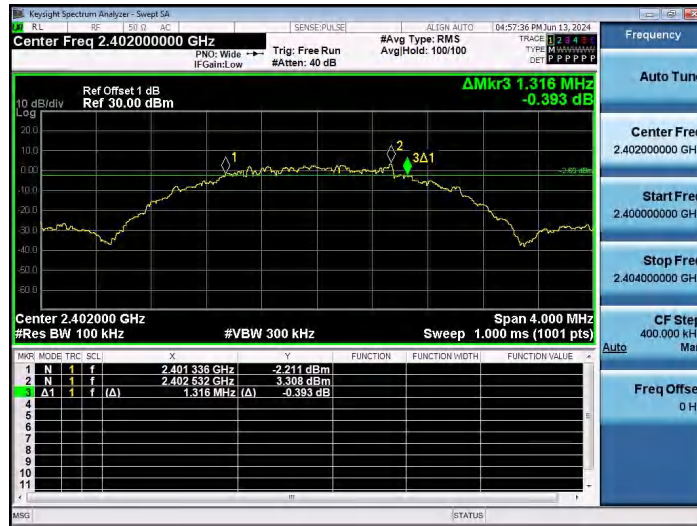
BLE_1M-Ant1-2480-PASS

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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	1.0401	2401.4763	2402.5164	---	---
BLE_1M	Ant1	2440	1.0526	2439.4737	2440.5263	---	---
BLE_1M	Ant1	2480	1.0416	2479.4738	2480.5154	---	---
BLE_2M	Ant1	2402	2.1037	2400.9580	2403.0617	---	---
BLE_2M	Ant1	2440	2.1085	2438.9583	2441.0668	---	---
BLE_2M	Ant1	2480	2.1030	2478.9638	2481.0668	---	---

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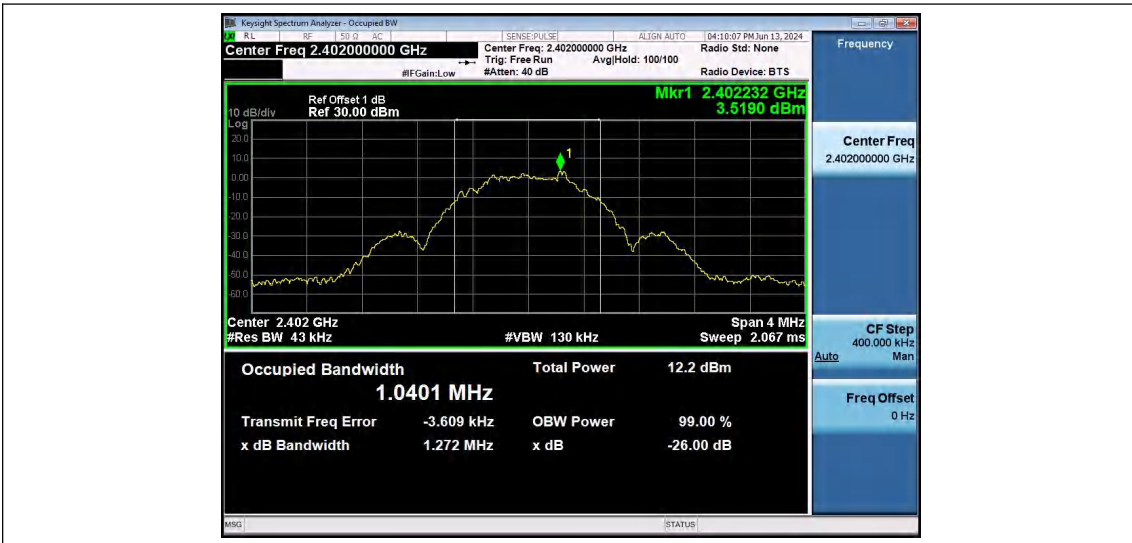
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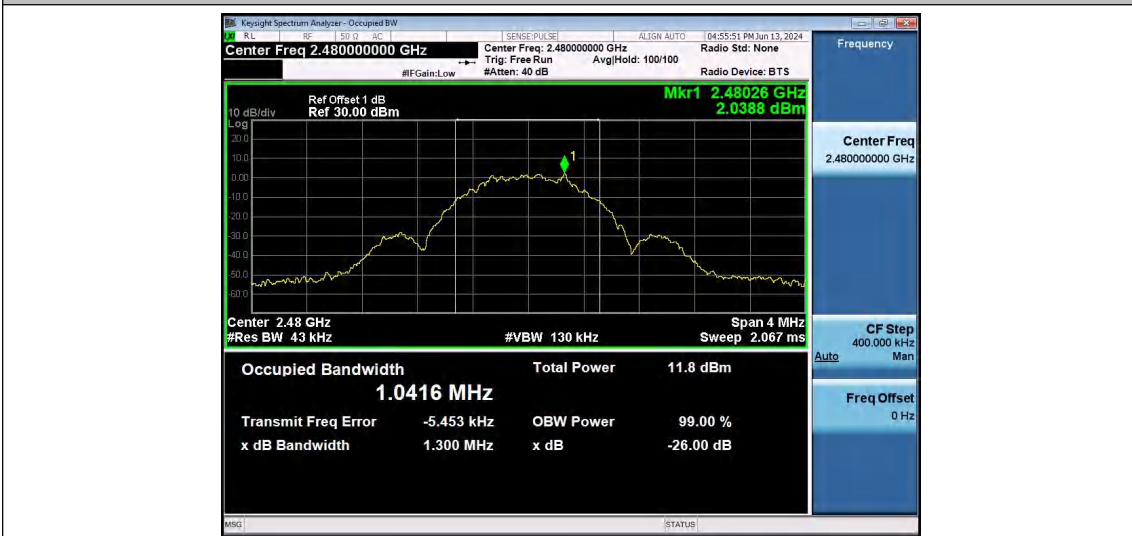
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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Appendix C: Maximum output power

Test Result Peak

TestMode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.54	≤30	PASS
BLE_1M	Ant1	2440	5.54	≤30	PASS
BLE_1M	Ant1	2480	5.11	≤30	PASS
BLE_2M	Ant1	2402	5.85	≤30	PASS
BLE_2M	Ant1	2440	5.79	≤30	PASS
BLE_2M	Ant1	2480	5.10	≤30	PASS

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Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



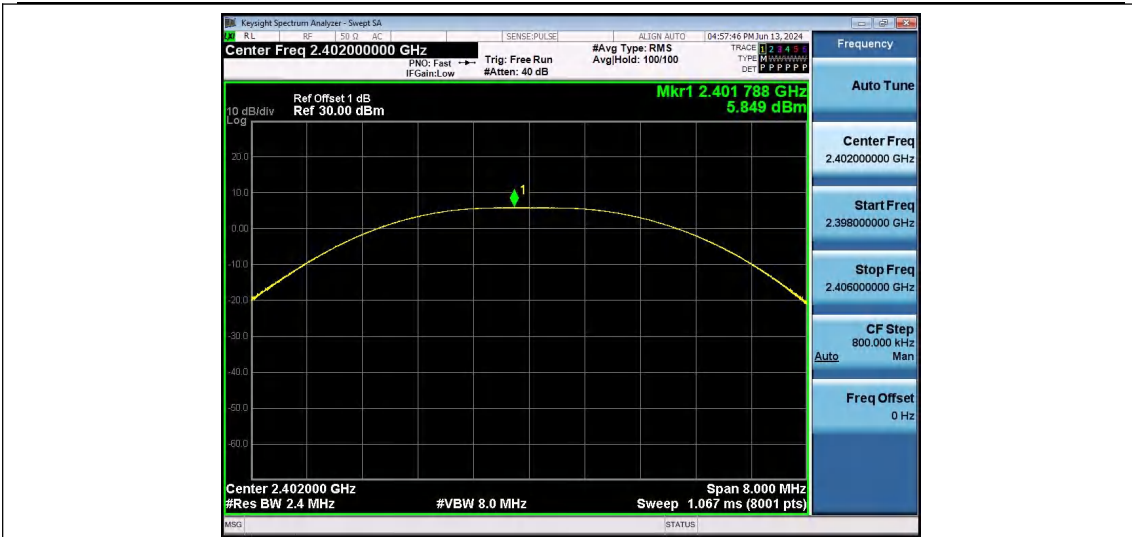
BLE_1M-Ant1-2480-PASS

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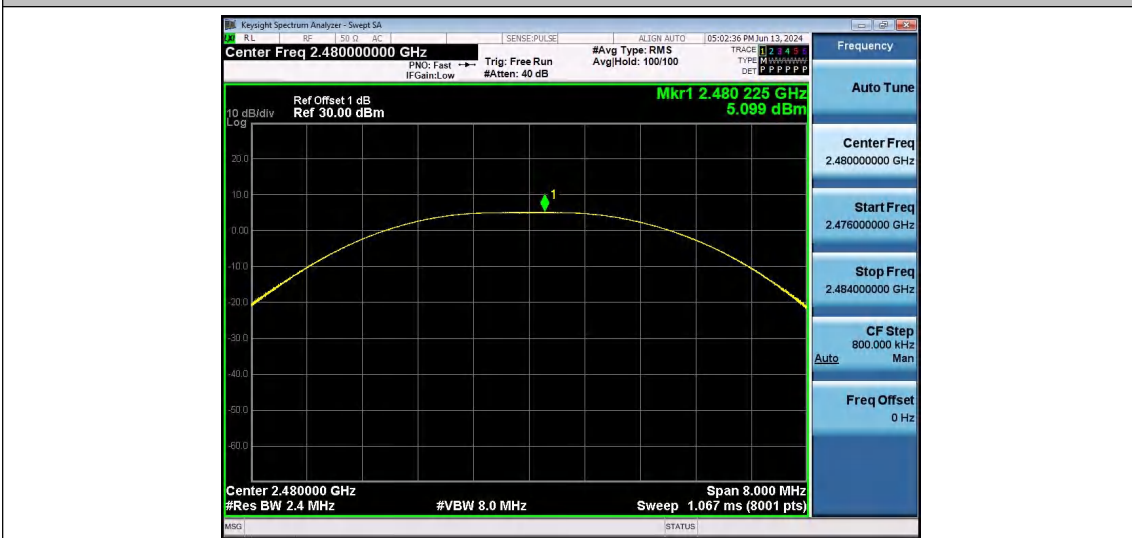




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.40	≤8.00	PASS
BLE_1M	Ant1	2440	-10.48	≤8.00	PASS
BLE_1M	Ant1	2480	-11.21	≤8.00	PASS
BLE_2M	Ant1	2402	-12.85	≤8.00	PASS
BLE_2M	Ant1	2440	-12.90	≤8.00	PASS
BLE_2M	Ant1	2480	-13.62	≤8.00	PASS

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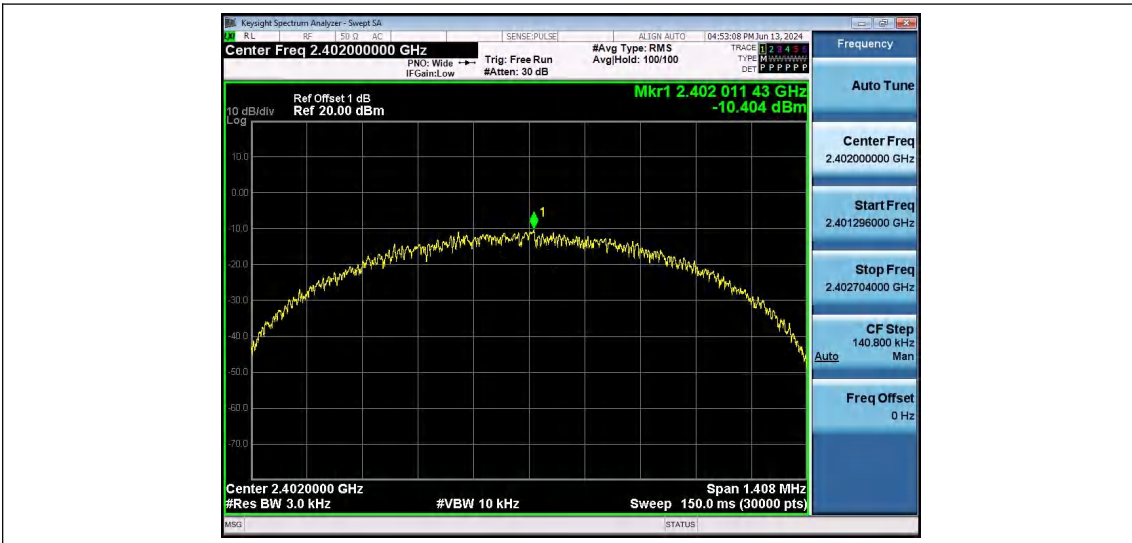
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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.83	-54.55	≤-15.17	PASS
BLE_1M	Ant1	High	2480	4.91	-55.91	≤-15.09	PASS
BLE_2M	Ant1	Low	2402	3.32	-28.91	≤-16.68	PASS
BLE_2M	Ant1	High	2480	2.61	-54.63	≤-17.39	PASS

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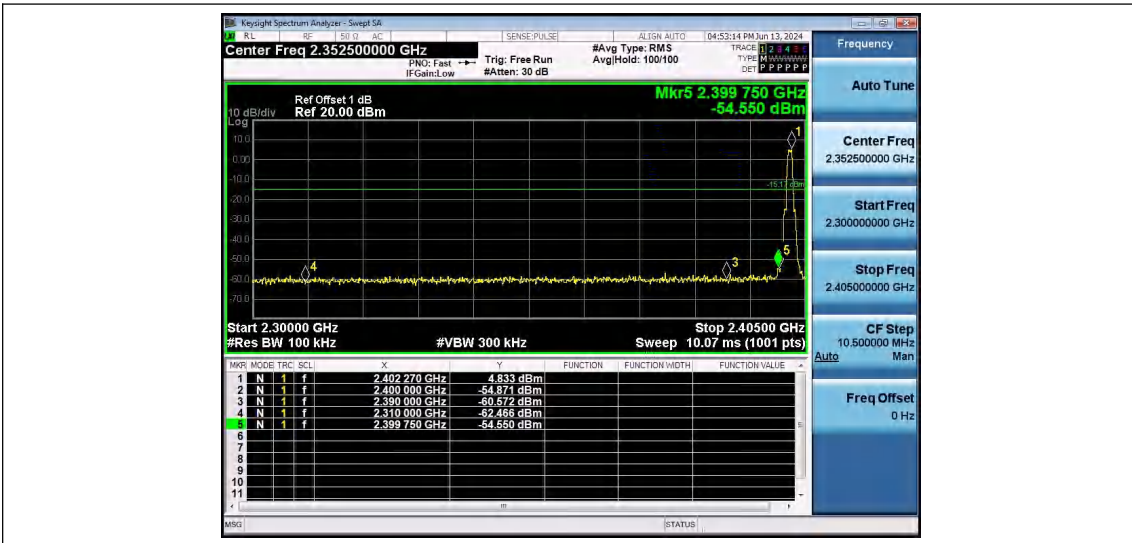
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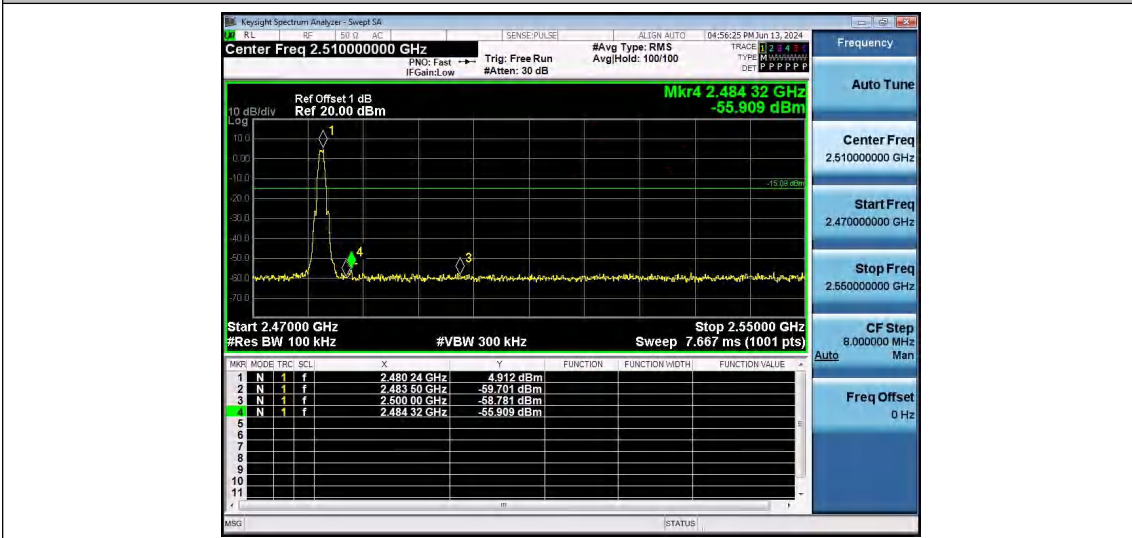
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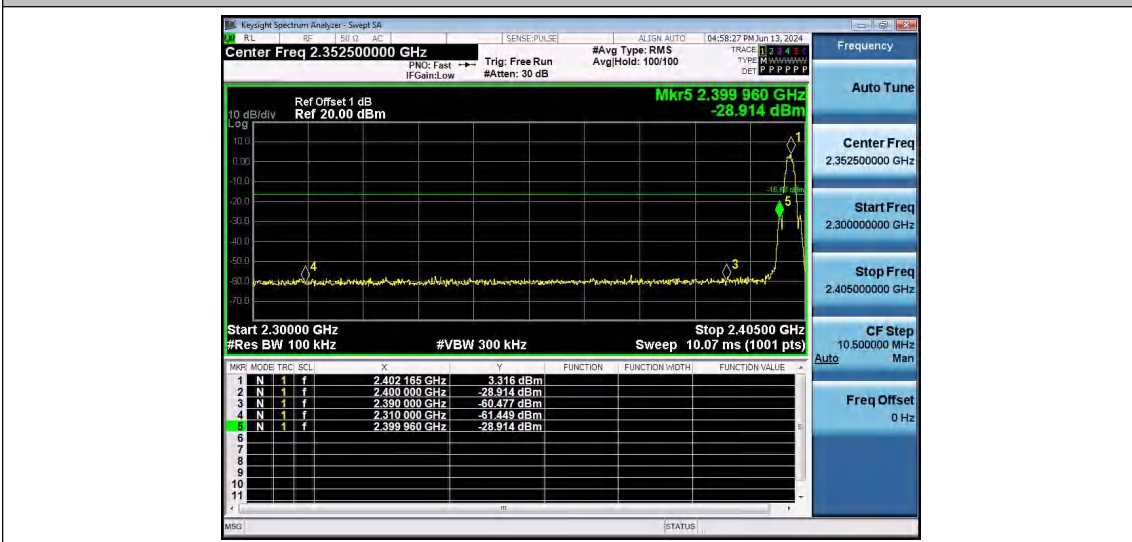
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



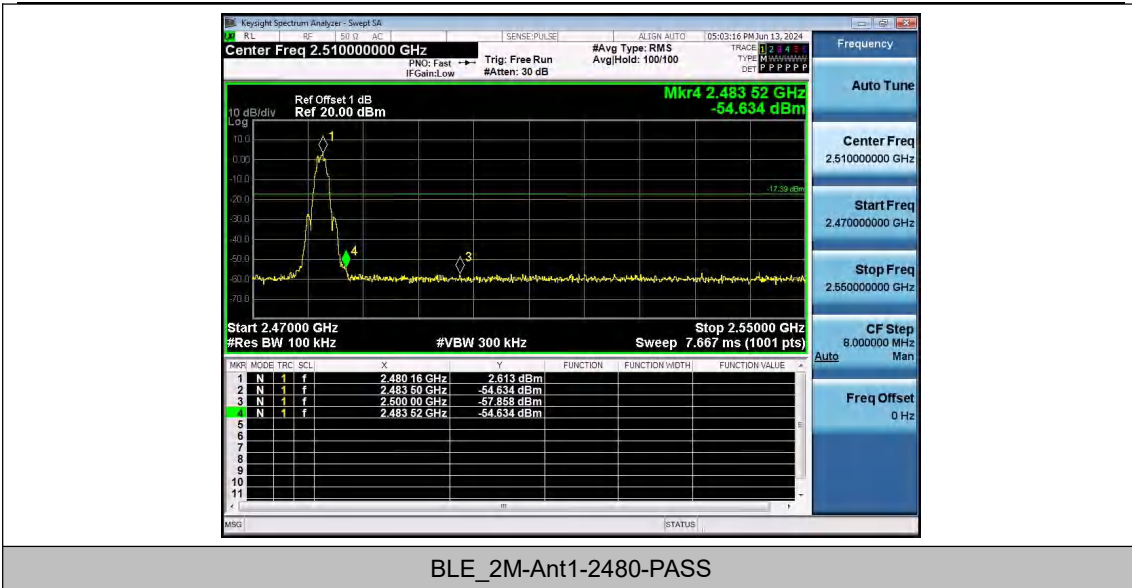
BLE_2M-Ant1-2402-PASS

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Appendix F: Conducted Spurious Emission

Test Result

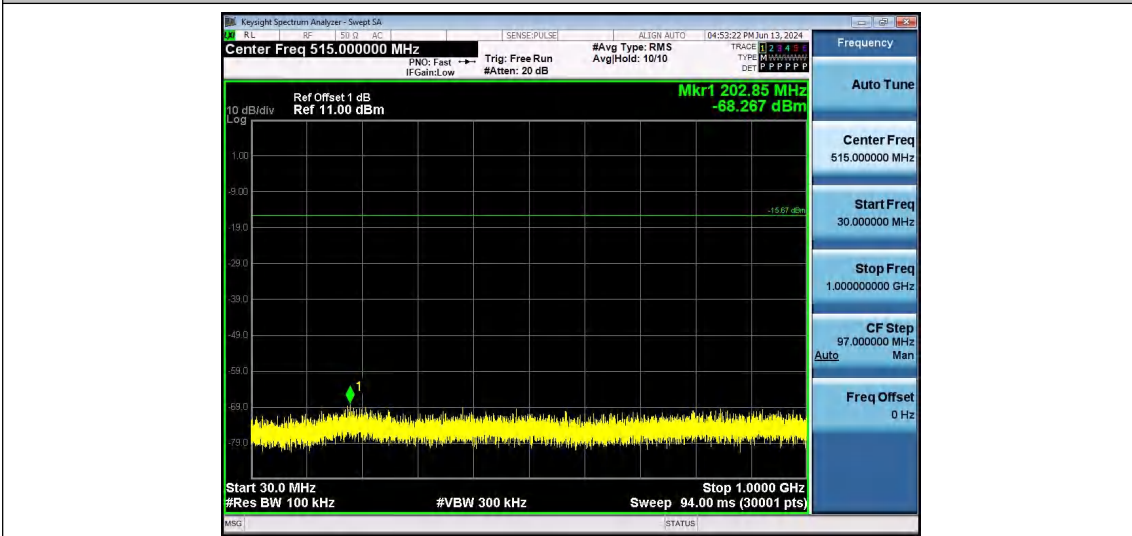
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.33	4.33	---	PASS
BLE_1M	Ant1	2402	30~1000	4.33	-68.27	≤-15.67	PASS
BLE_1M	Ant1	2402	1000~26500	4.33	-53.49	≤-15.67	PASS
BLE_1M	Ant1	2440	0~Reference	4.06	4.06	---	PASS
BLE_1M	Ant1	2440	30~1000	4.06	-67.62	≤-15.94	PASS
BLE_1M	Ant1	2440	1000~26500	4.06	-53.44	≤-15.94	PASS
BLE_1M	Ant1	2480	0~Reference	4.80	4.80	---	PASS
BLE_1M	Ant1	2480	30~1000	4.80	-68.65	≤-15.2	PASS
BLE_1M	Ant1	2480	1000~26500	4.80	-53.54	≤-15.2	PASS
BLE_2M	Ant1	2402	0~Reference	2.15	2.15	---	PASS
BLE_2M	Ant1	2402	30~1000	2.15	-67.06	≤-17.85	PASS
BLE_2M	Ant1	2402	1000~26500	2.15	-53.41	≤-17.85	PASS
BLE_2M	Ant1	2440	0~Reference	2.13	2.13	---	PASS
BLE_2M	Ant1	2440	30~1000	2.13	-68.6	≤-17.87	PASS
BLE_2M	Ant1	2440	1000~26500	2.13	-53.26	≤-17.87	PASS
BLE_2M	Ant1	2480	0~Reference	3.46	3.46	---	PASS
BLE_2M	Ant1	2480	30~1000	3.46	-69.07	≤-16.54	PASS
BLE_2M	Ant1	2480	1000~26500	3.46	-53.32	≤-16.54	PASS



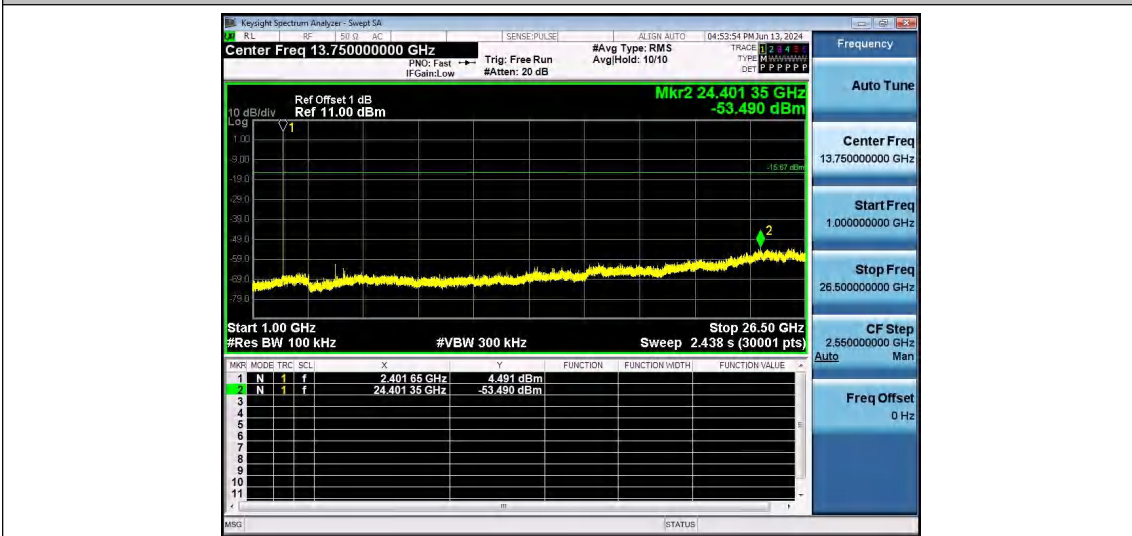
Test Graphs



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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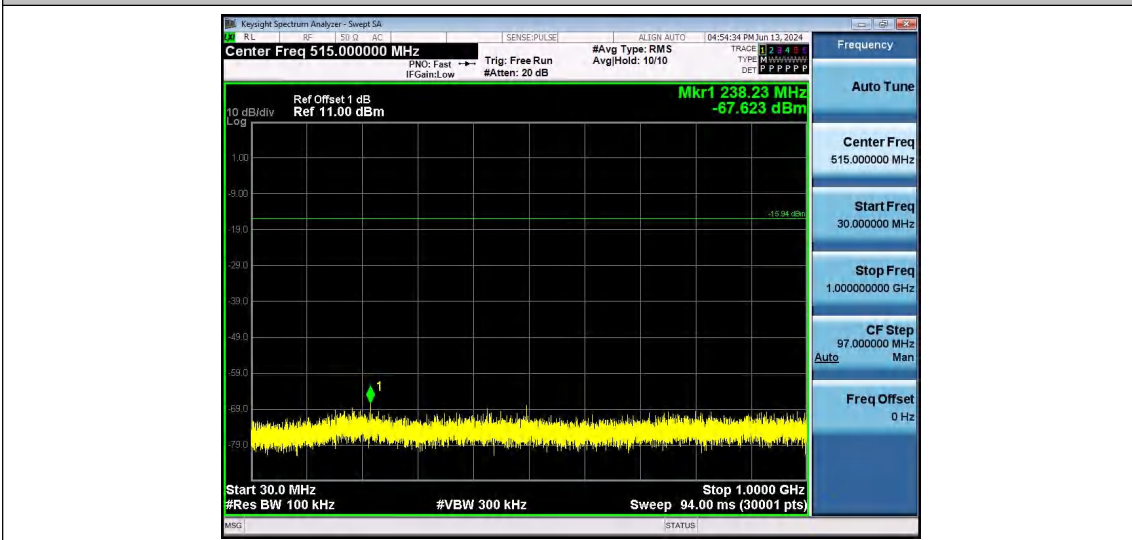
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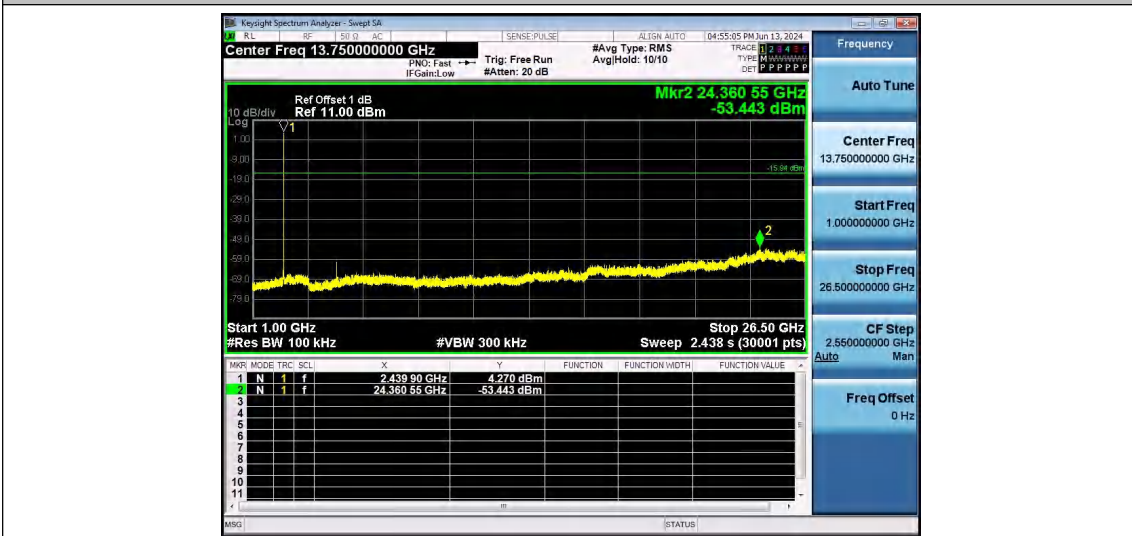




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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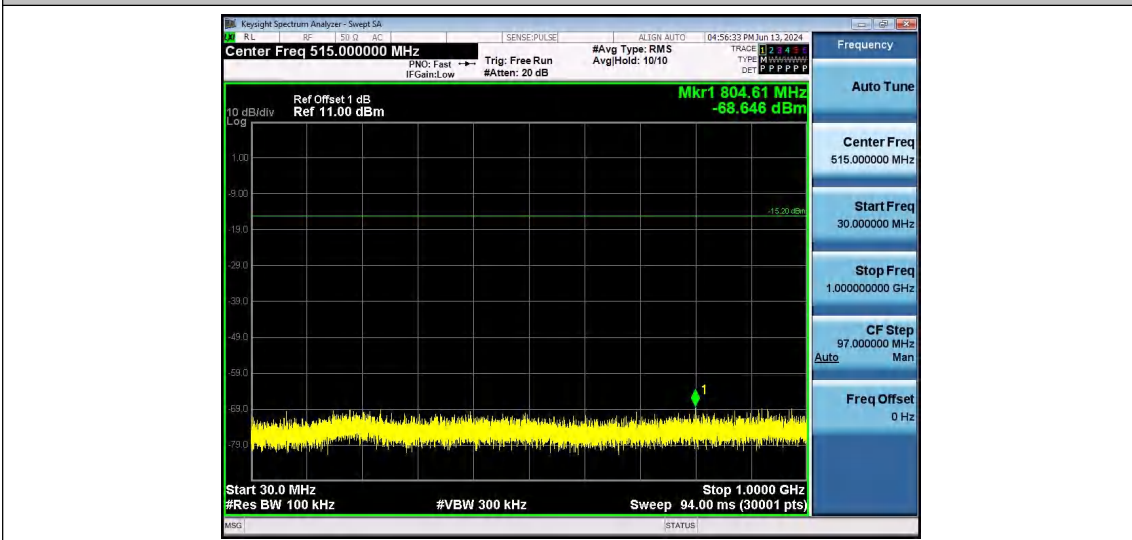
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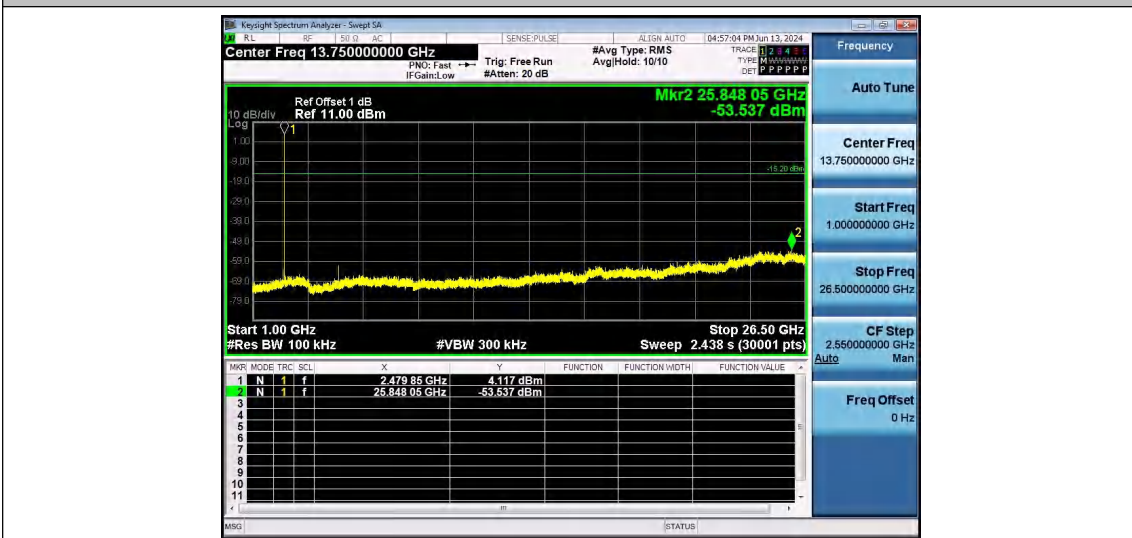




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

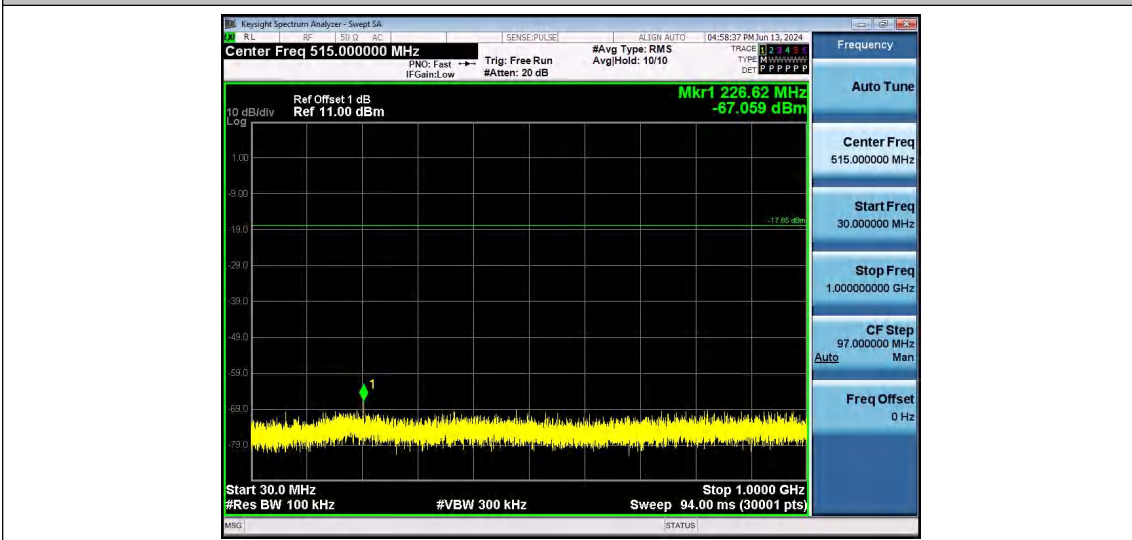


BLE_1M-Ant1-2480-1000~26500-PASS

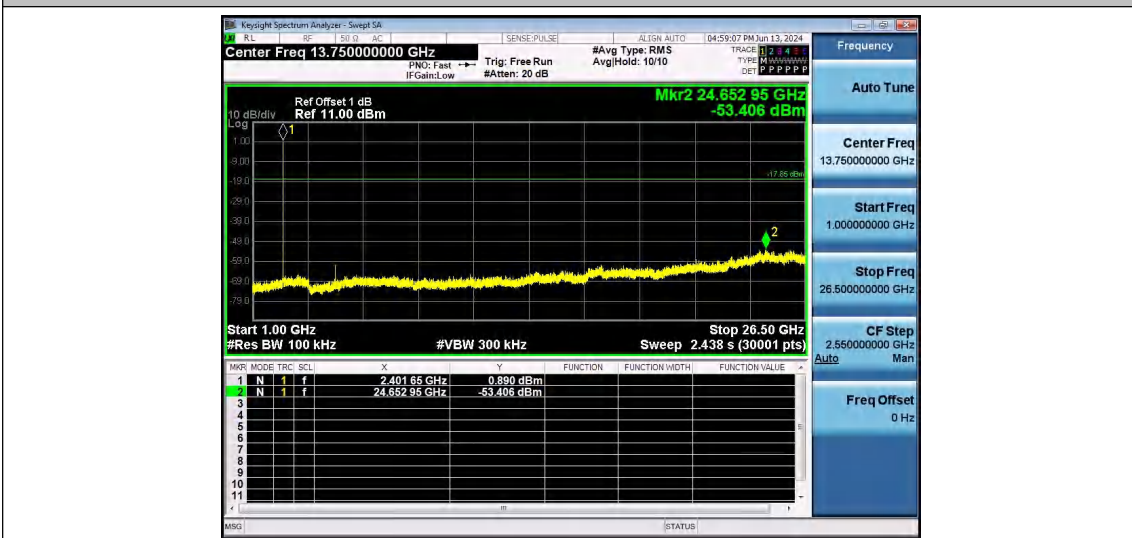




BLE_2M-Ant1-2402-0~Reference-PASS

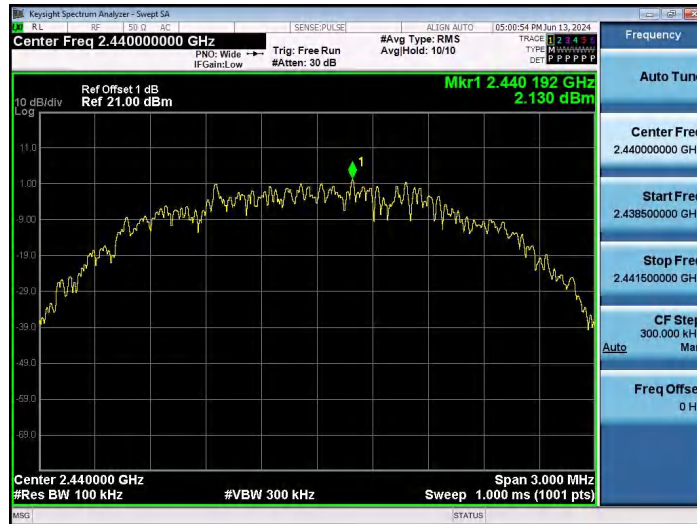


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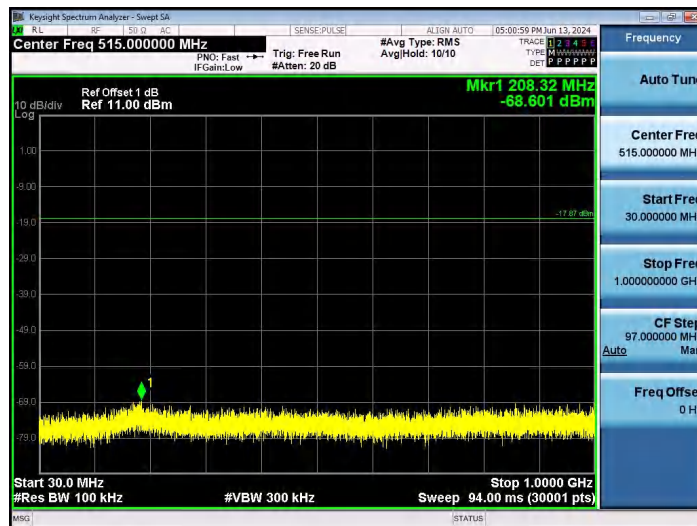


BLE_2M-Ant1-2402-1000~26500-PASS

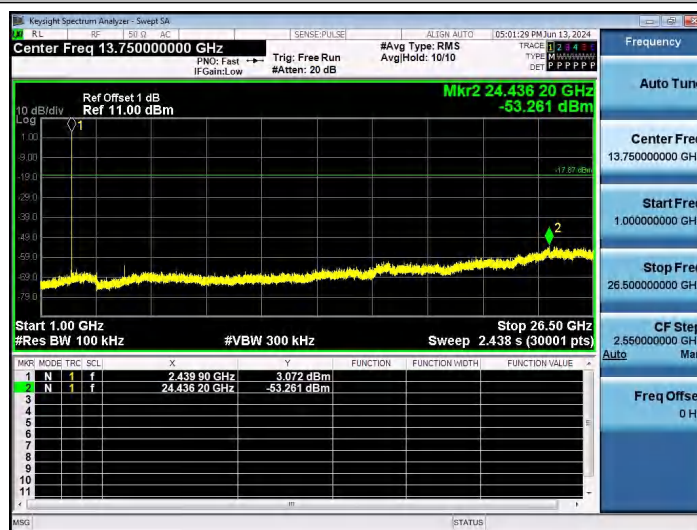




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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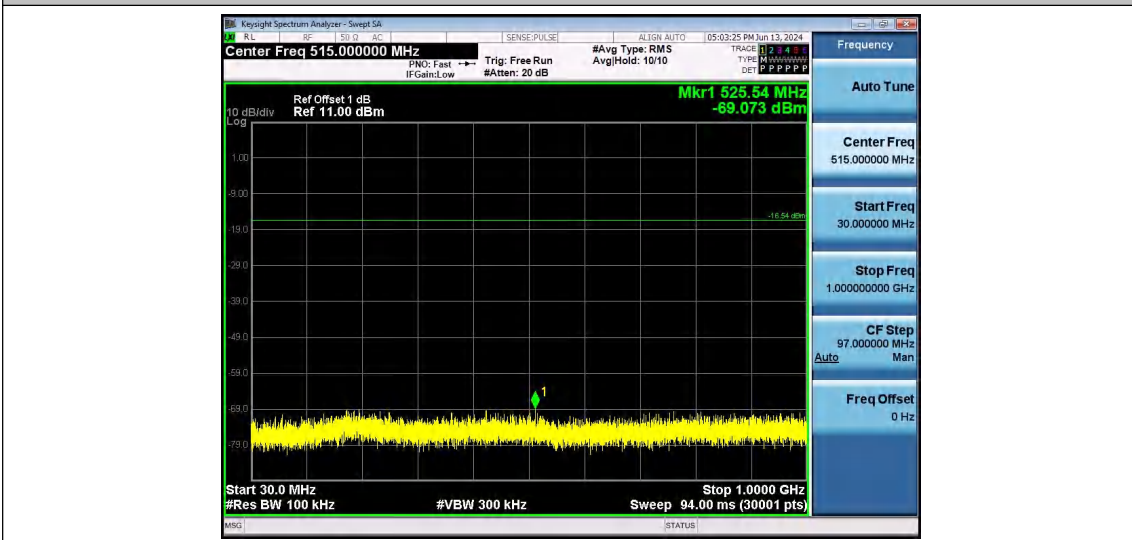
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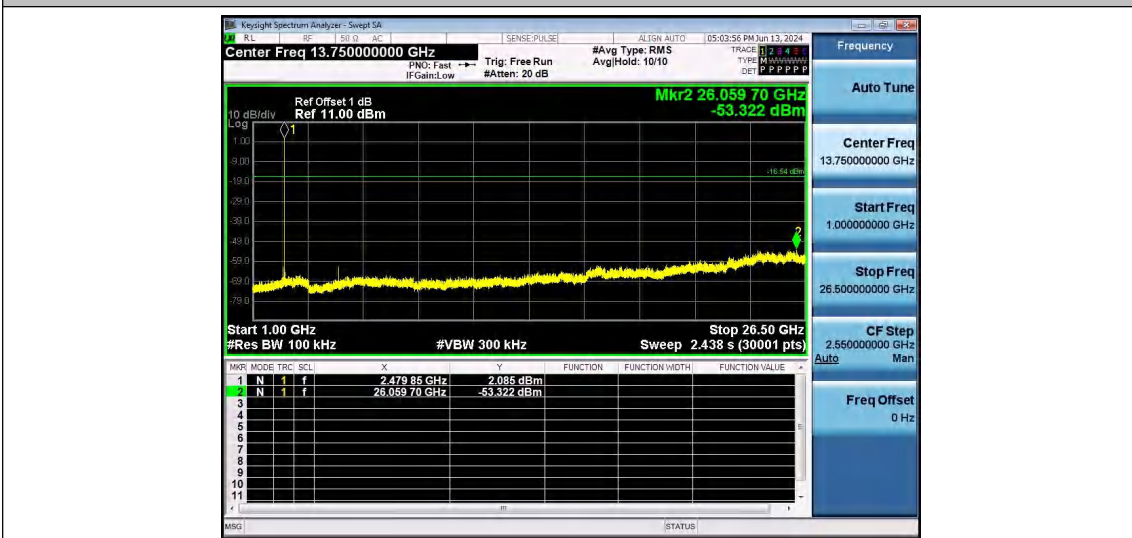




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



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
BLE_2M	Ant1	2402	1.07	1.87	57.22	2.42
BLE_2M	Ant1	2440	1.07	1.87	57.22	2.42
BLE_2M	Ant1	2480	1.08	1.88	57.45	2.41

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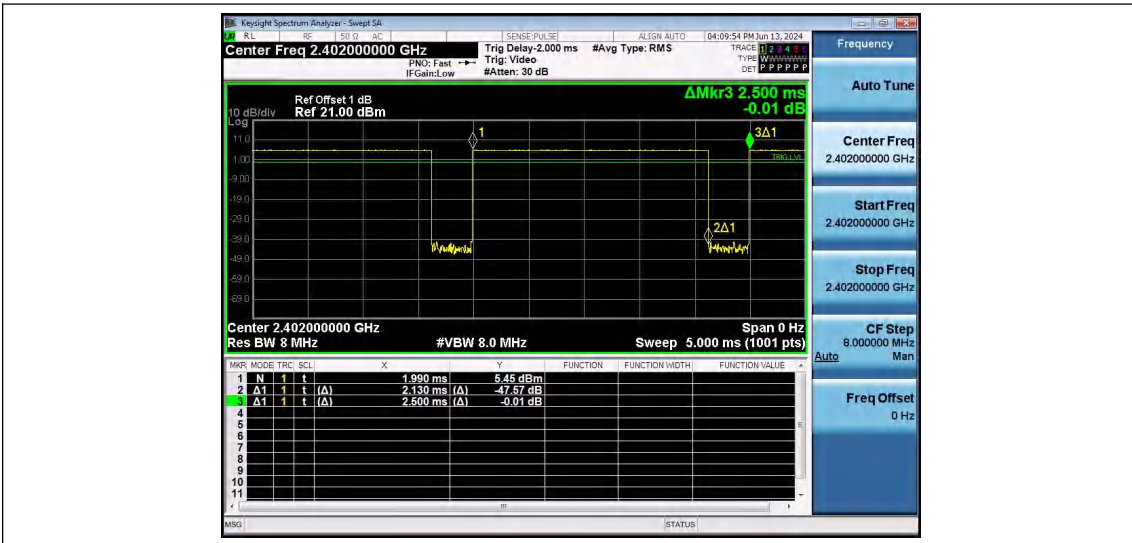
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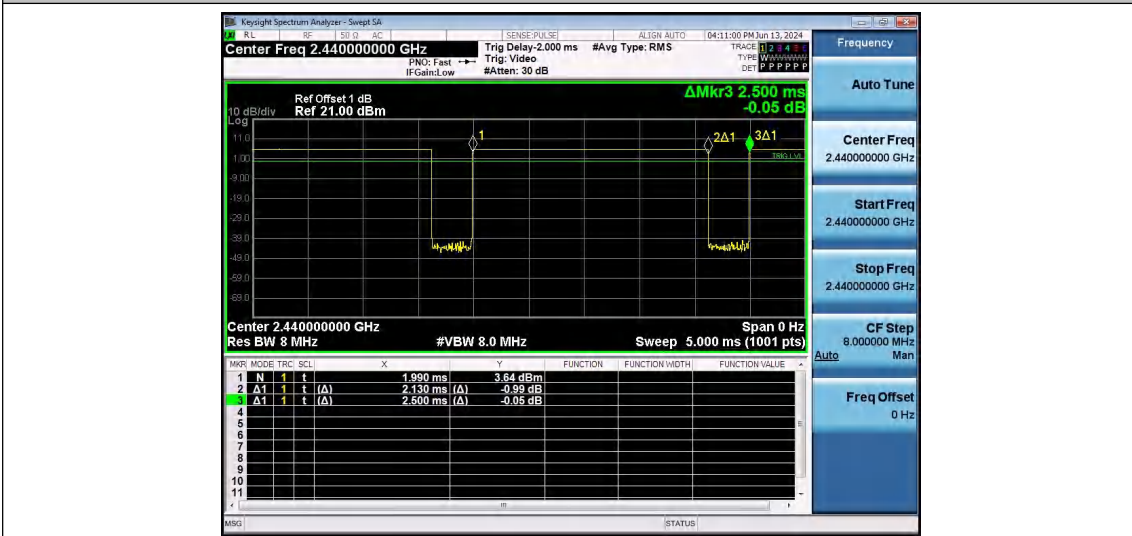
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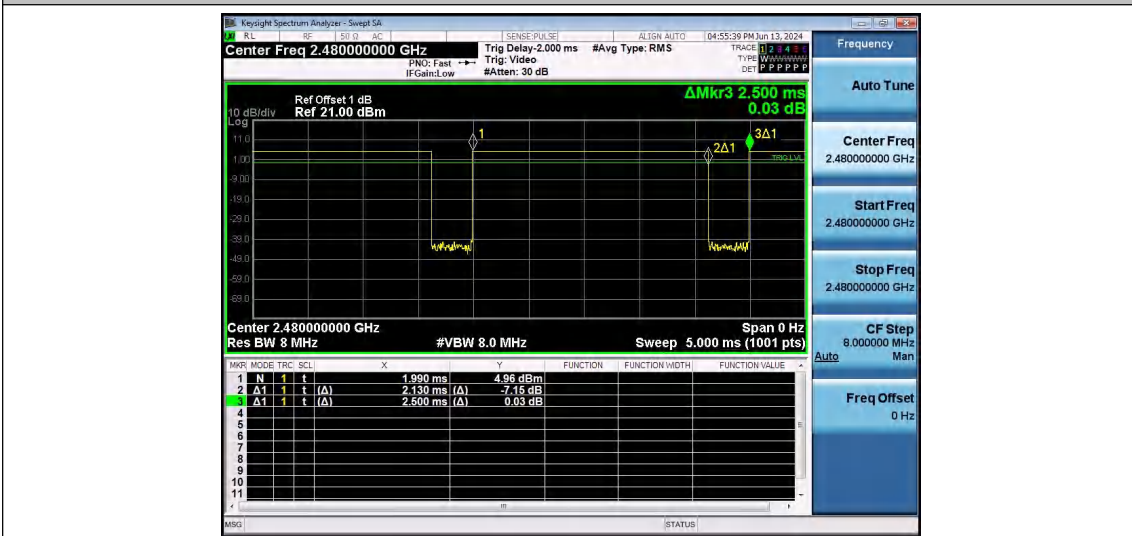
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



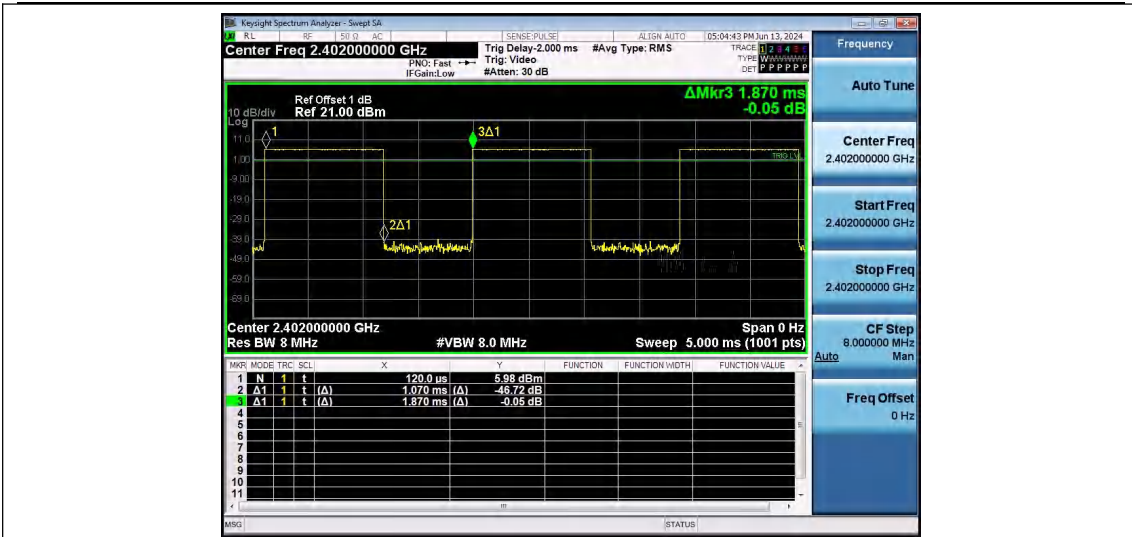
NTNV-BLE_1M-Ant1-2480

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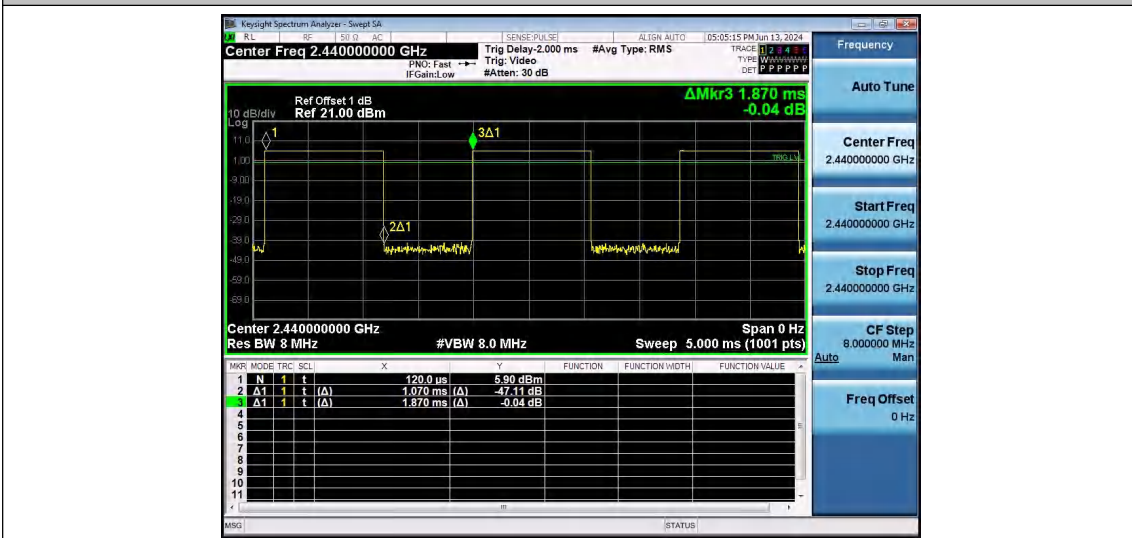
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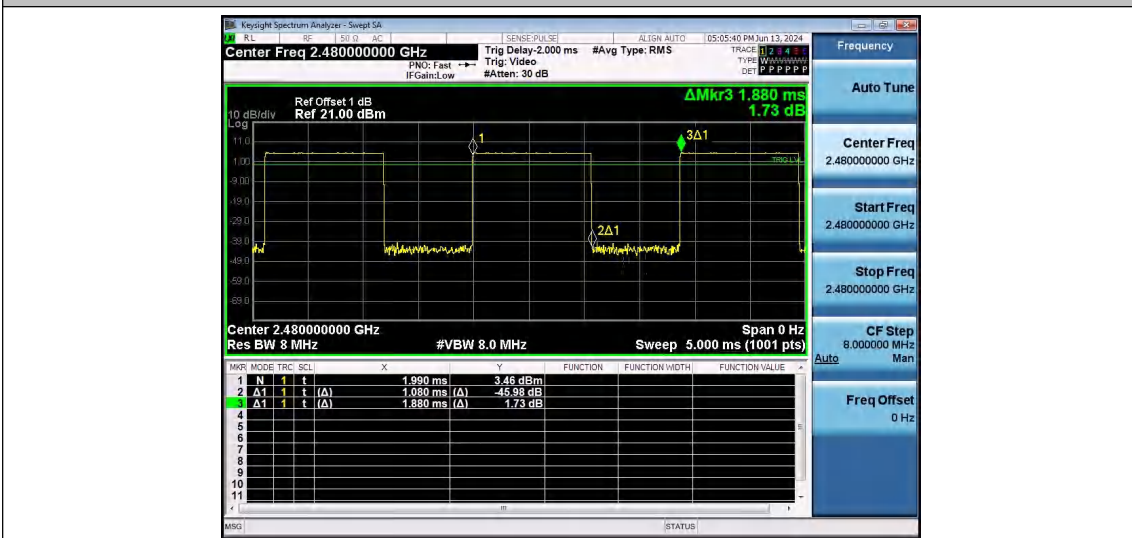




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

