

Appendix Test Data

Report No.:	182513C400022101	Test Sample No.:	1-2-2
Start Test Date:	2024.6.7	Finish Test Date:	2024.6.12
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	0.612	2401.676	2402.288	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.640	2440.300	0.5	PASS
BLE_1M	Ant1	2480	0.628	2479.664	2480.292	0.5	PASS
BLE_2M	Ant1	2402	1.044	2401.448	2402.492	0.5	PASS
BLE_2M	Ant1	2440	1.208	2439.332	2440.540	0.5	PASS
BLE_2M	Ant1	2480	1.096	2479.436	2480.532	0.5	PASS

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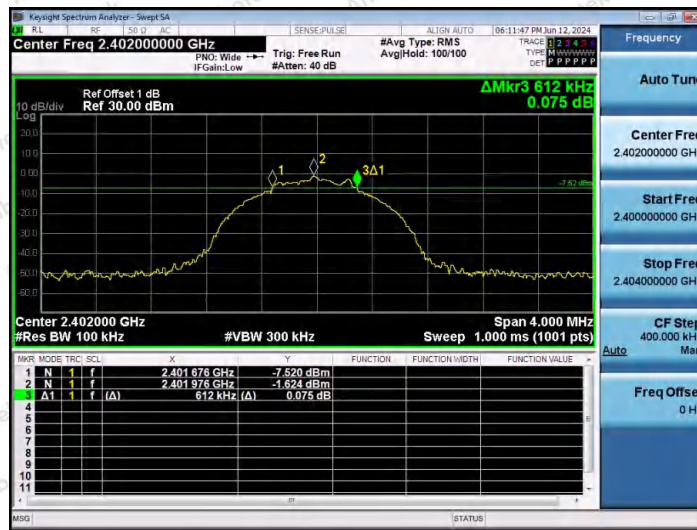
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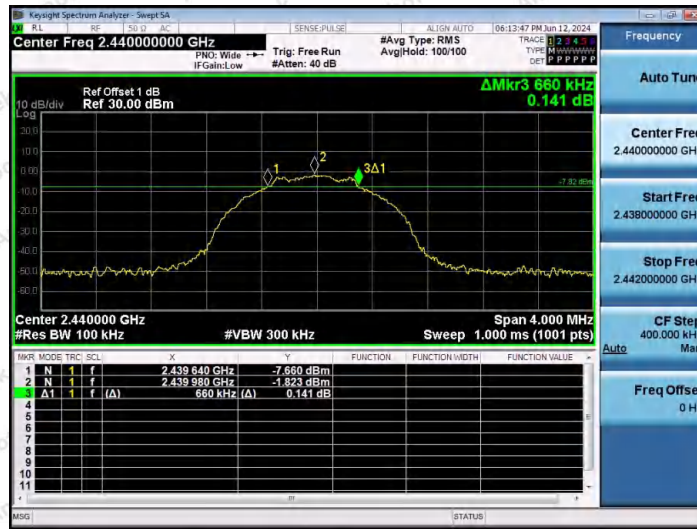
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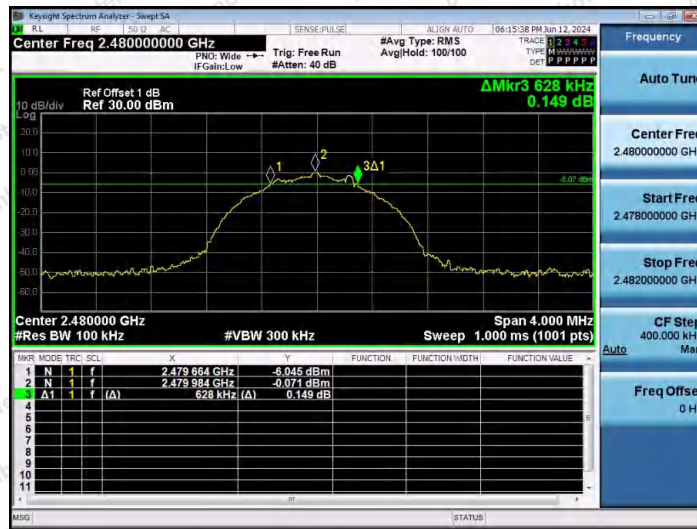
Test Graphs



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 B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0808	2401.4388	2402.5196	---	---
BLE_1M	Ant1	2440	1.0740	2439.4436	2440.5176	---	---
BLE_1M	Ant1	2480	1.0722	2479.4414	2480.5136	---	---
BLE_2M	Ant1	2402	2.1121	2400.9335	2403.0456	---	---
BLE_2M	Ant1	2440	2.1212	2438.9274	2441.0486	---	---
BLE_2M	Ant1	2480	2.0950	2478.9485	2481.0435	---	---

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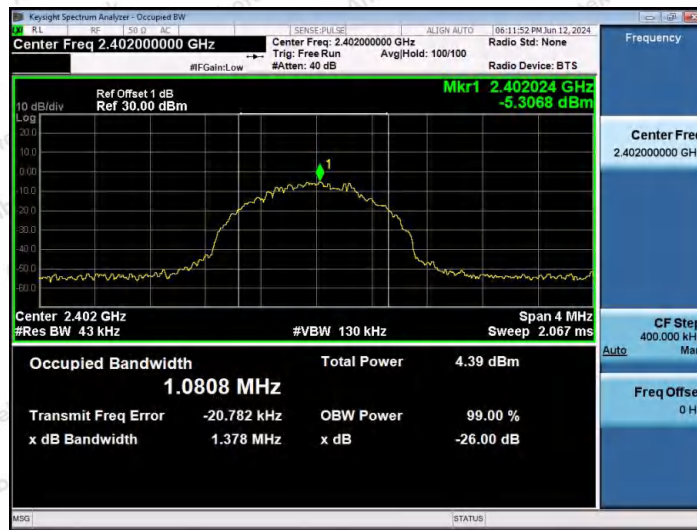
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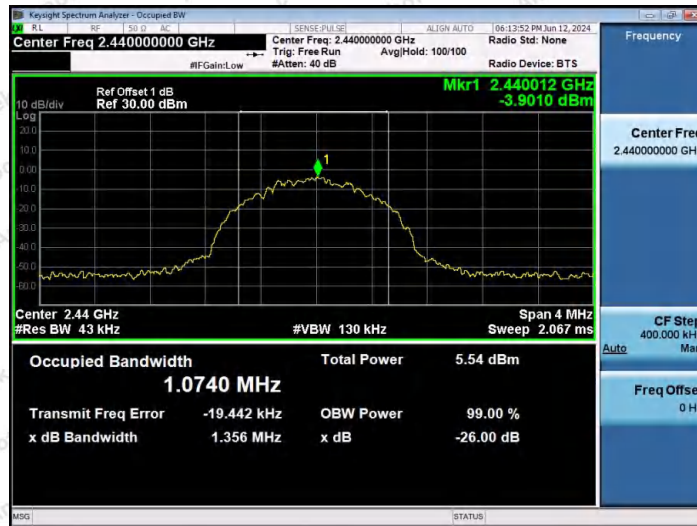
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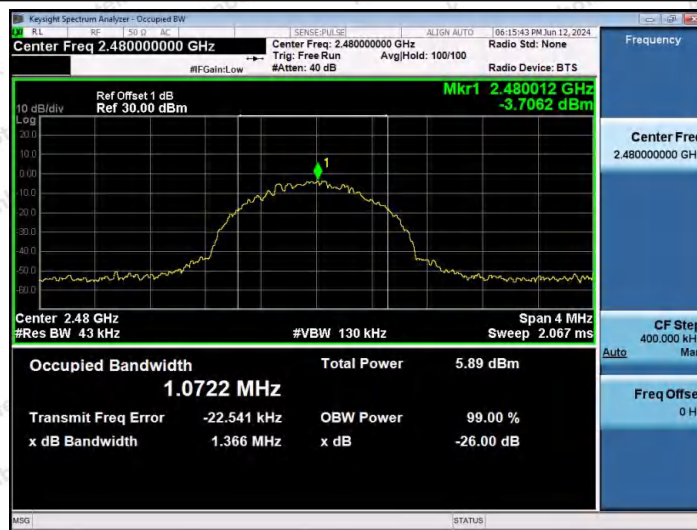
Test Graphs



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	-0.92	≤30	PASS
BLE_1M	Ant1	2440	0.04	≤30	PASS
BLE_1M	Ant1	2480	0.40	≤30	PASS
BLE_2M	Ant1	2402	-1.06	≤30	PASS
BLE_2M	Ant1	2440	-0.02	≤30	PASS
BLE_2M	Ant1	2480	0.18	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



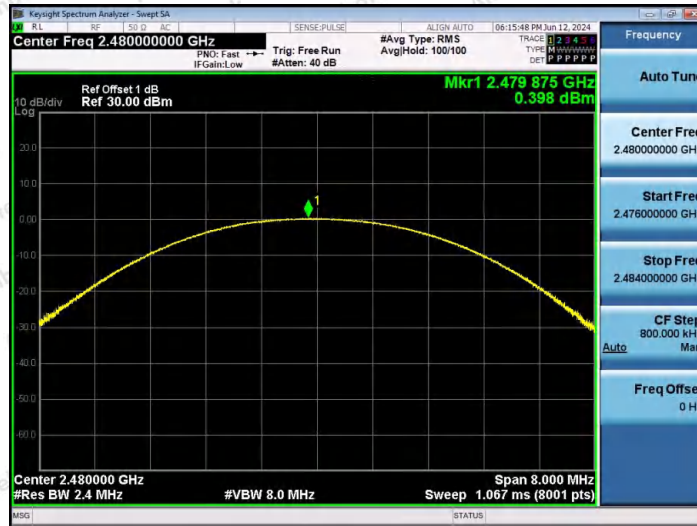
BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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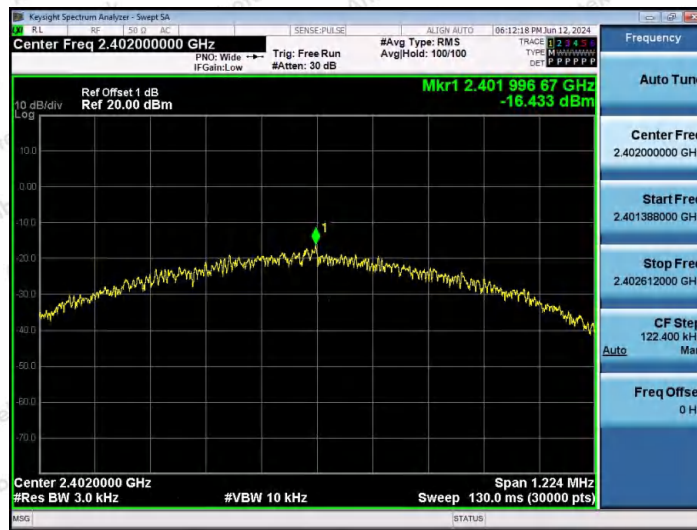
Appendix D: Maximum power spectral density

Test Result

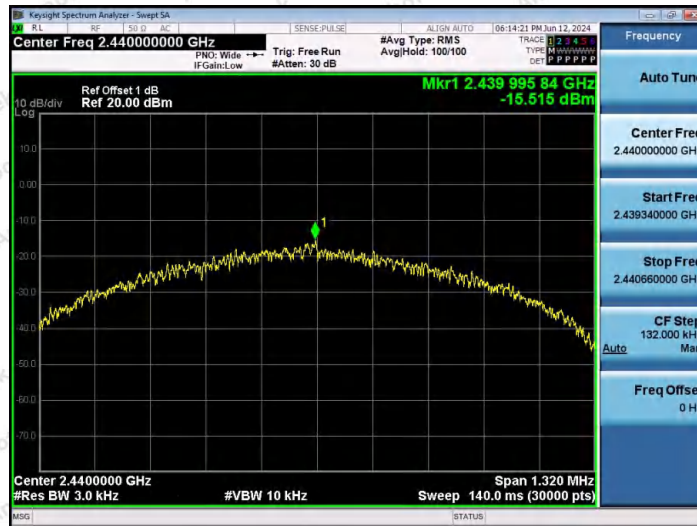
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.43	≤8.00	PASS
BLE_1M	Ant1	2440	-15.52	≤8.00	PASS
BLE_1M	Ant1	2480	-15.12	≤8.00	PASS
BLE_2M	Ant1	2402	-18.53	≤8.00	PASS
BLE_2M	Ant1	2440	-17.27	≤8.00	PASS
BLE_2M	Ant1	2480	-16.96	≤8.00	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



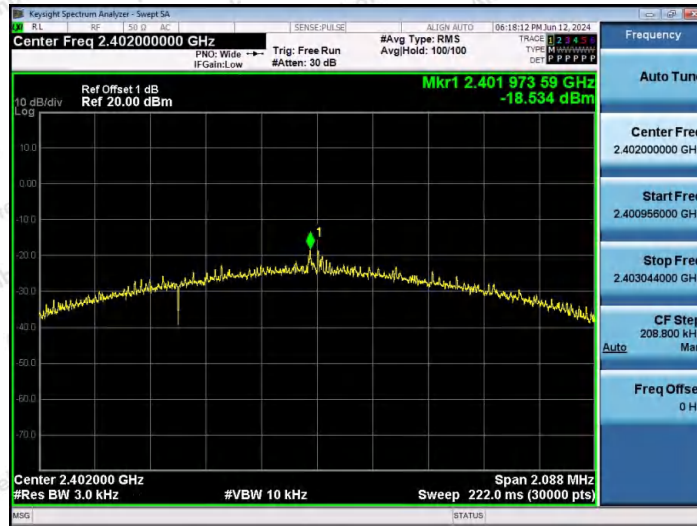
BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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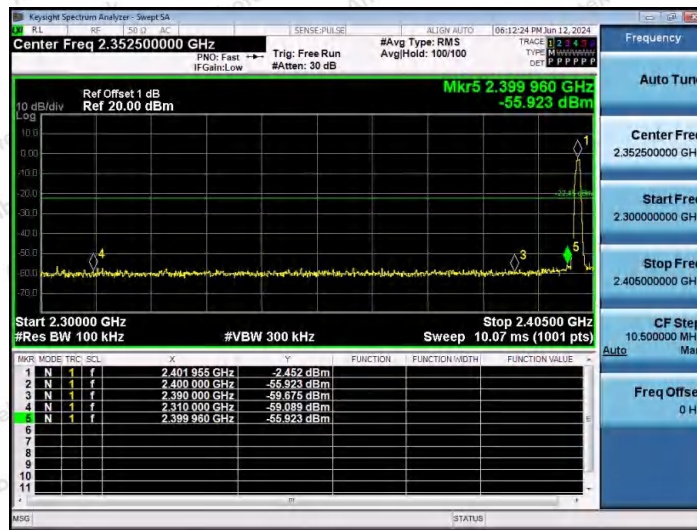
Appendix E: Band edge measurements

Test Result

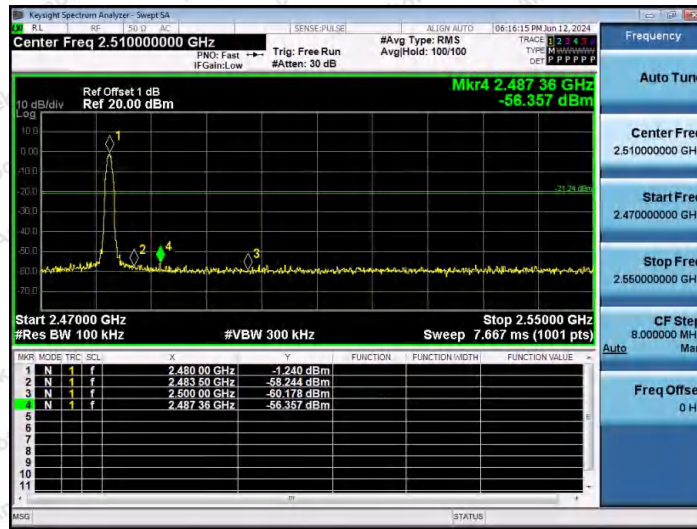
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.45	-55.92	≤-22.45	PASS
BLE_1M	Ant1	High	2480	-1.24	-56.36	≤-21.24	PASS
BLE_2M	Ant1	Low	2402	-4.13	-51.74	≤-24.13	PASS
BLE_2M	Ant1	High	2480	-2.67	-56.54	≤-22.67	PASS



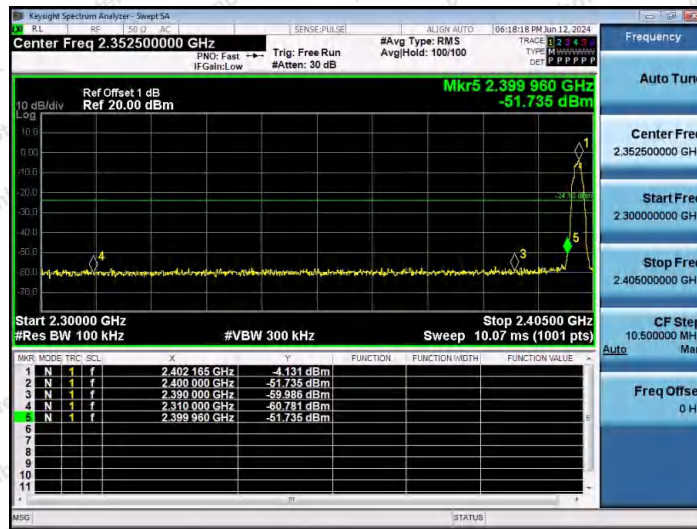
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



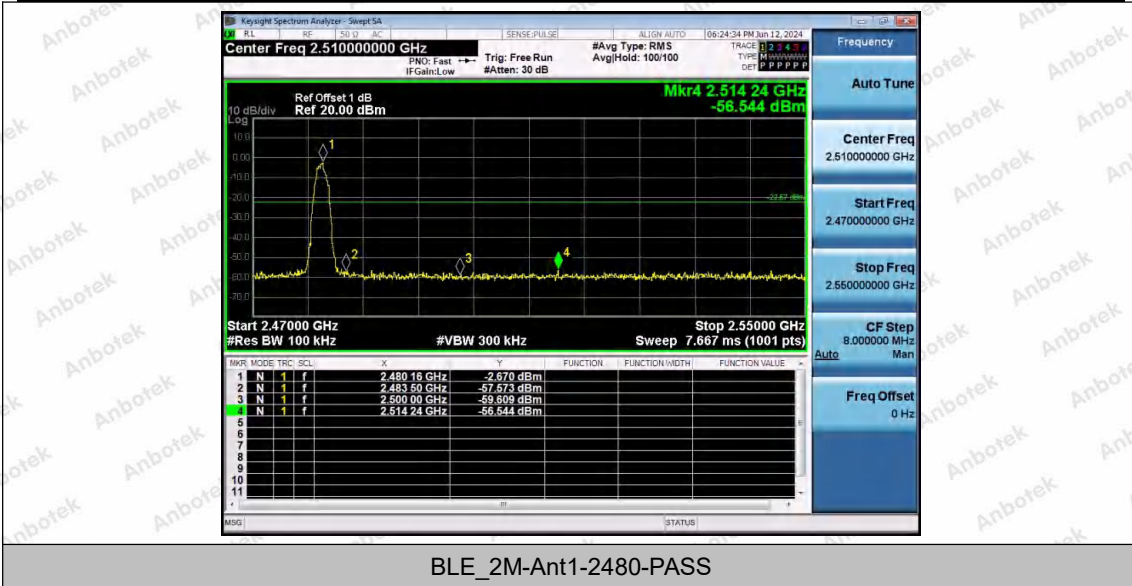
BLE_2M-Ant1-2402-PASS

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BLE_2M-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	-3.33	-3.33	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.33	-69.12	≤-23.33	PASS
BLE_1M	Ant1	2402	1000~26500	-3.33	-53.41	≤-23.33	PASS
BLE_1M	Ant1	2440	0~Reference	-1.93	-1.93	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.93	-68.4	≤-21.93	PASS
BLE_1M	Ant1	2440	1000~26500	-1.93	-53.77	≤-21.93	PASS
BLE_1M	Ant1	2480	0~Reference	-2.32	-2.32	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.32	-68.98	≤-22.32	PASS
BLE_1M	Ant1	2480	1000~26500	-2.32	-53.33	≤-22.32	PASS
BLE_2M	Ant1	2402	0~Reference	-4.96	-4.96	---	PASS
BLE_2M	Ant1	2402	30~1000	-4.96	-68.44	≤-24.96	PASS
BLE_2M	Ant1	2402	1000~26500	-4.96	-53.72	≤-24.96	PASS
BLE_2M	Ant1	2440	0~Reference	-4.78	-4.78	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.78	-68.51	≤-24.78	PASS
BLE_2M	Ant1	2440	1000~26500	-4.78	-52.64	≤-24.78	PASS
BLE_2M	Ant1	2480	0~Reference	-3.64	-3.64	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.64	-68.5	≤-23.64	PASS
BLE_2M	Ant1	2480	1000~26500	-3.64	-53.48	≤-23.64	PASS

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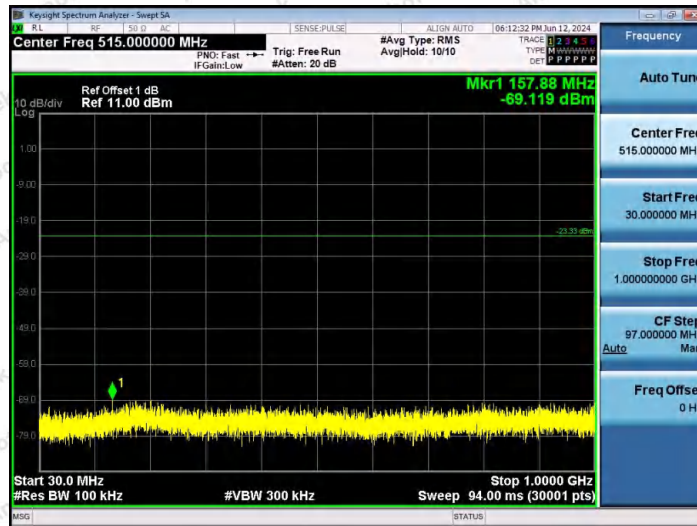
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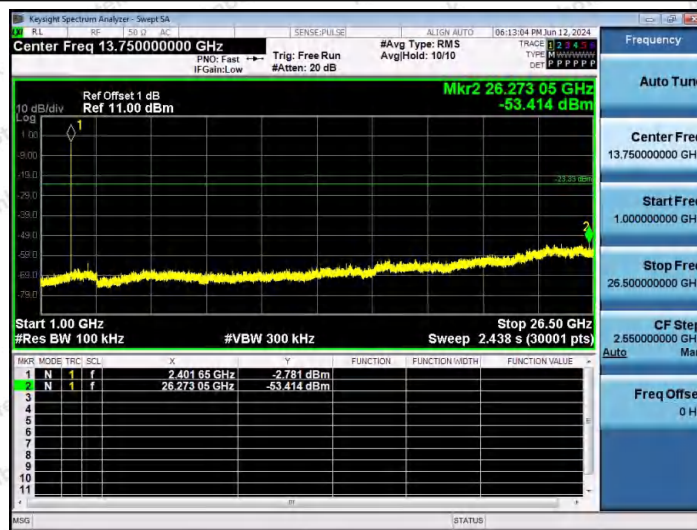
Test Graphs



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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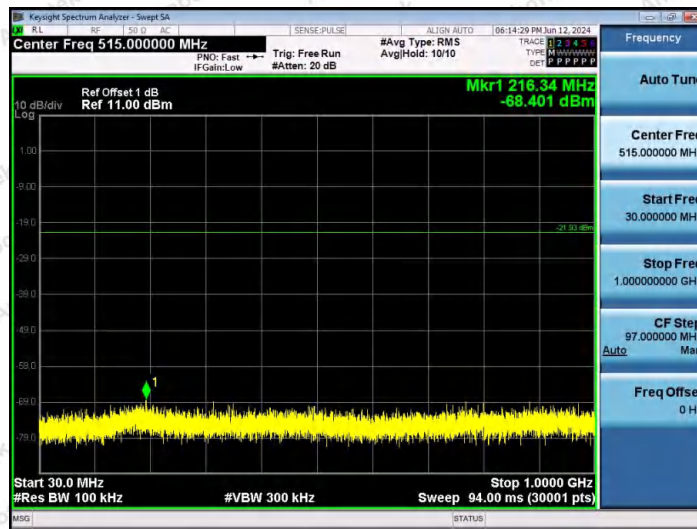
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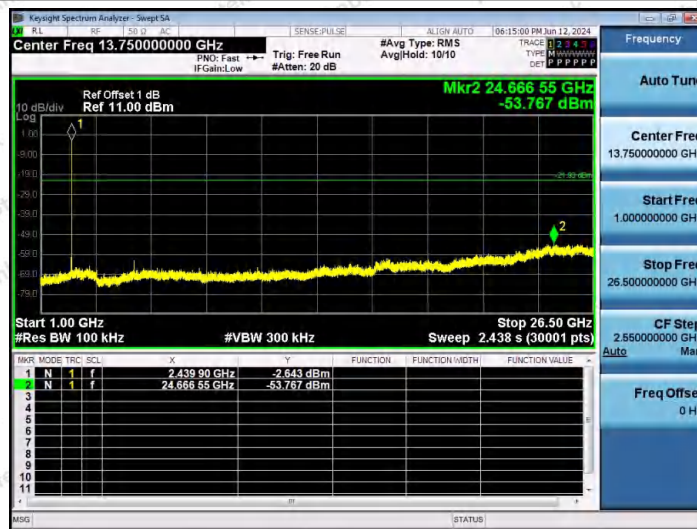




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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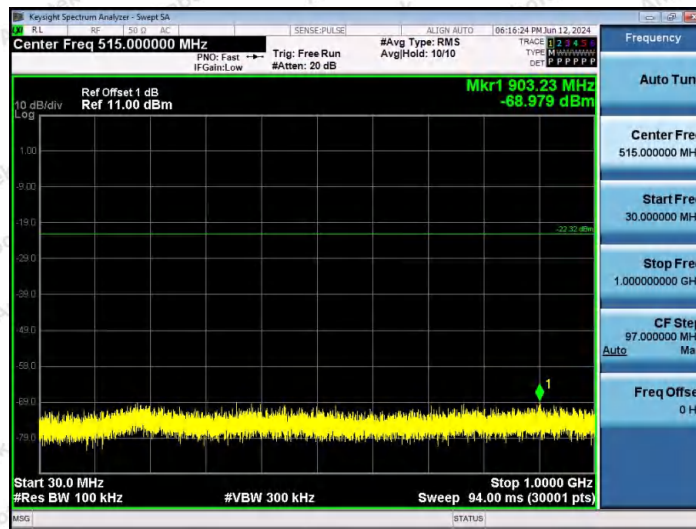
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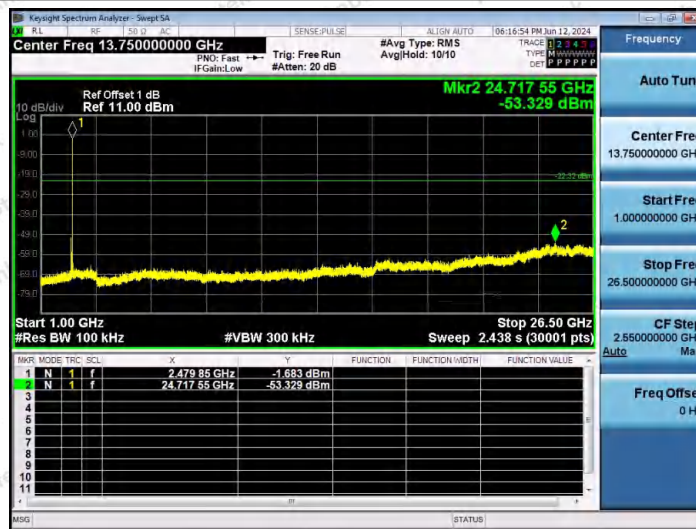




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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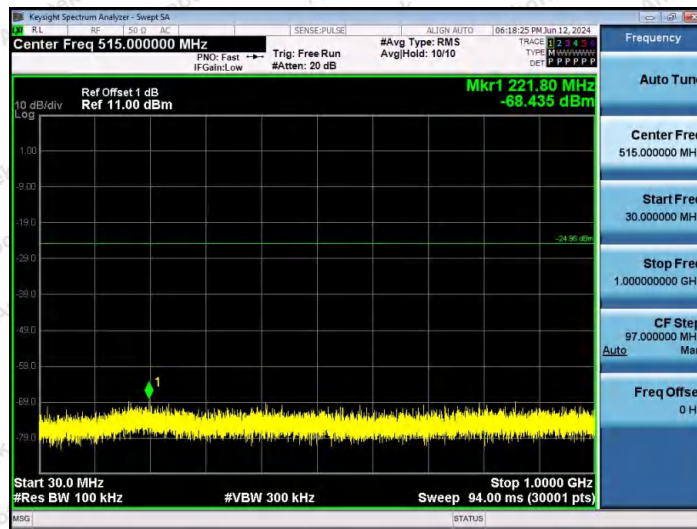
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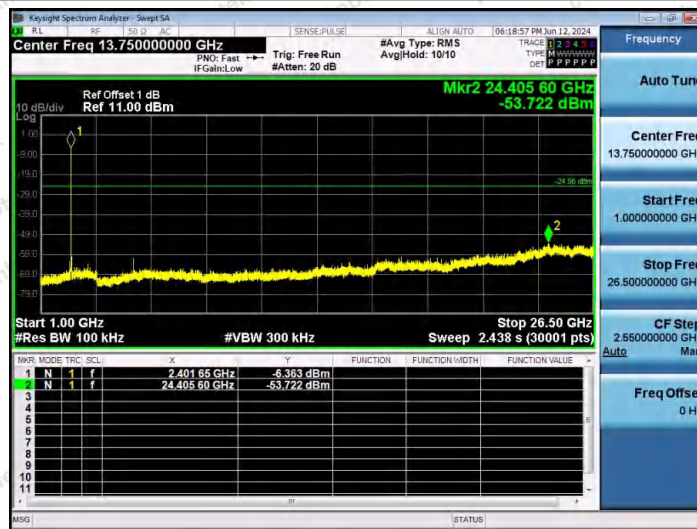




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



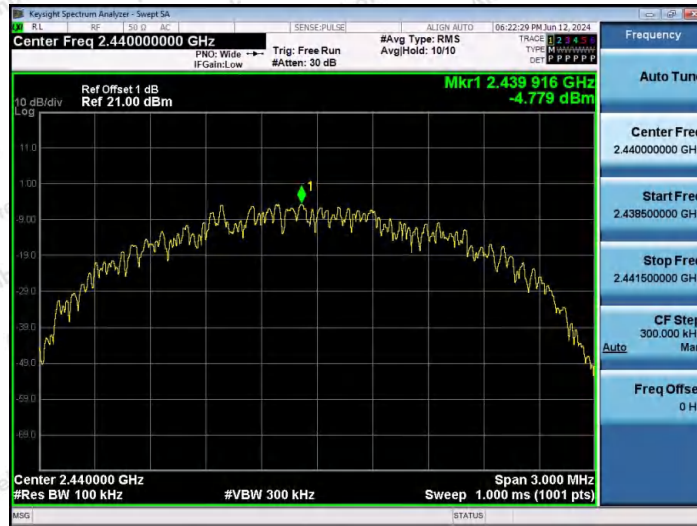
BLE_2M-Ant1-2402-1000~26500-PASS

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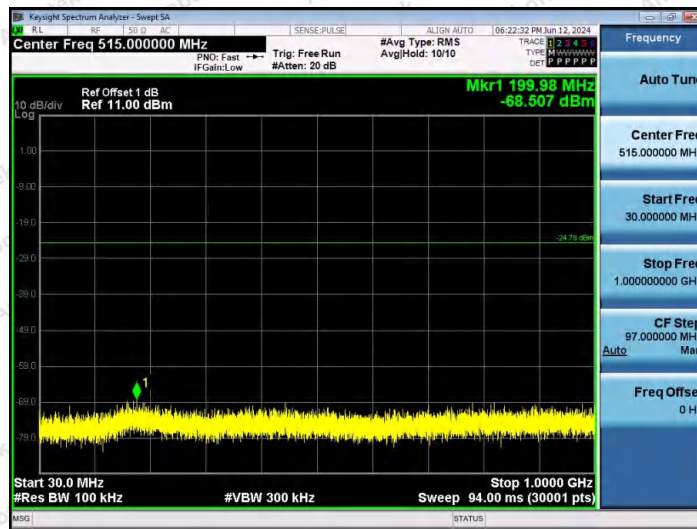
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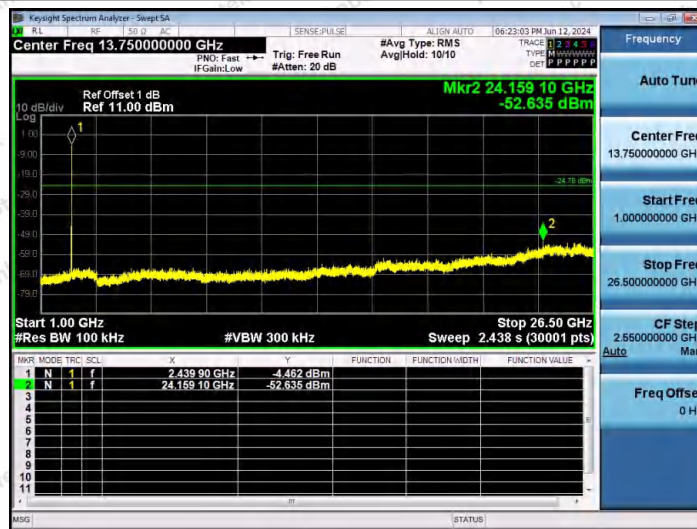




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



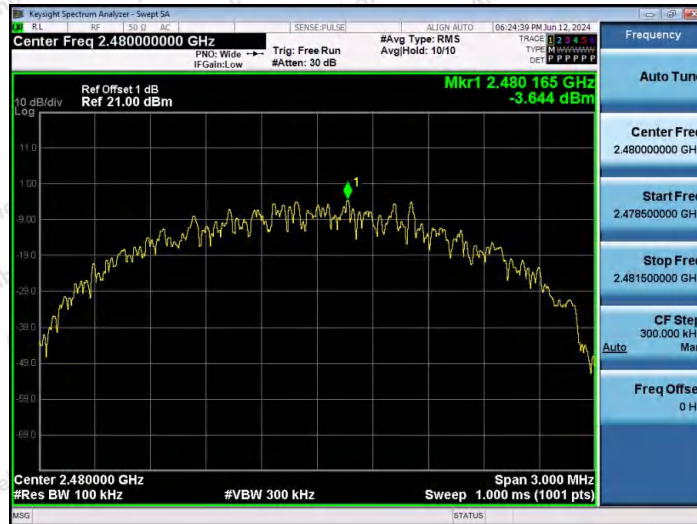
BLE_2M-Ant1-2440-1000~26500-PASS

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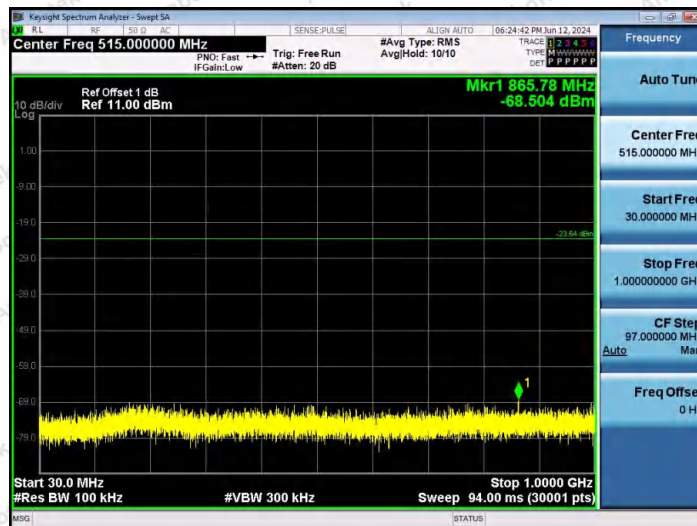
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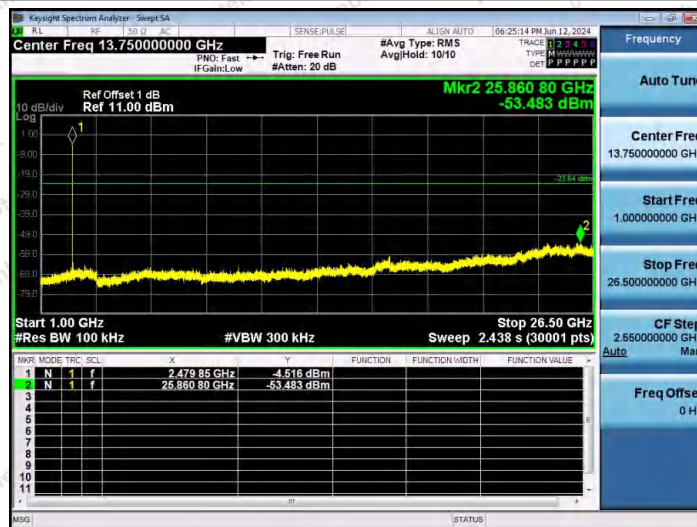




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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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	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.87	56.68	2.47

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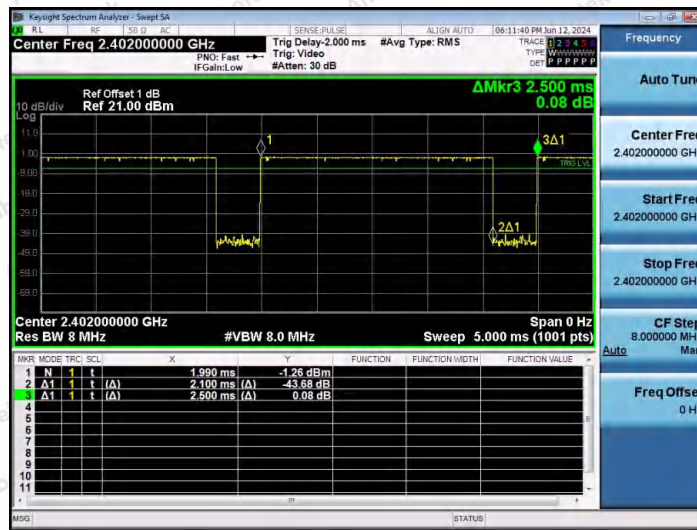
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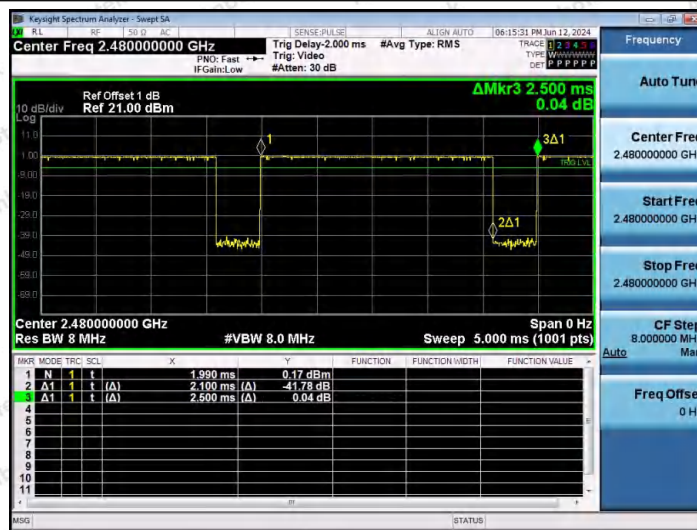
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

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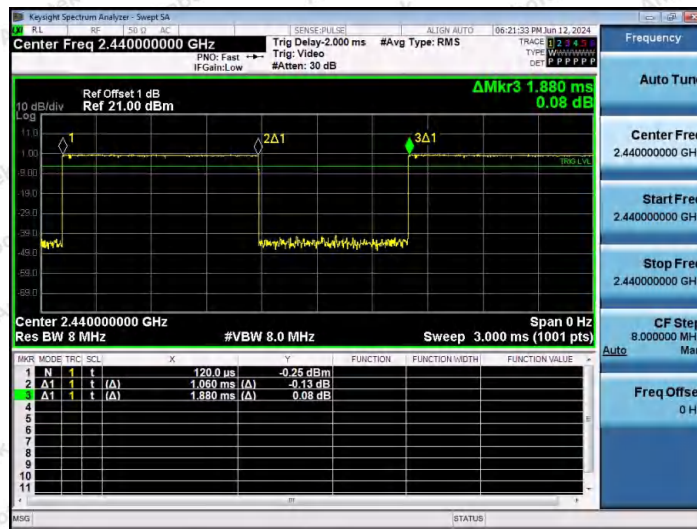
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NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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