

Appendix Test Data

Report No.:	18220WC40097602	Test Sample No.:	1-2-2
Start Test Date:	2024.05.10	Finish Test Date:	2024.05.22
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	0.500	2401.676	2402.176	0.5	PASS
BLE_1M	Ant1	2440	0.504	2439.672	2440.176	0.5	PASS
BLE_1M	Ant1	2480	0.508	2479.668	2480.176	0.5	PASS

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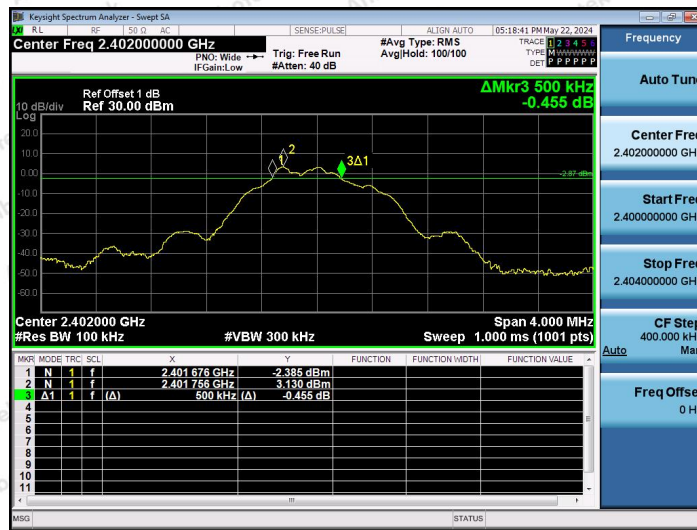
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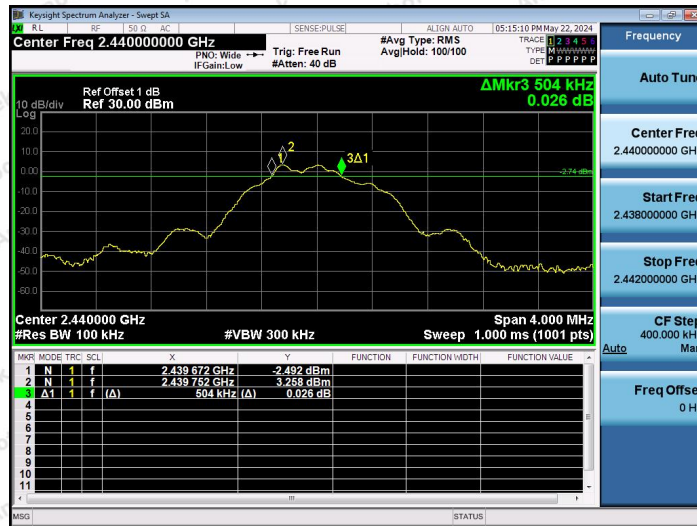
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Test Graphs



BLE_1M-Ant1-2402-FAIL



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	1.0251	2401.4981	2402.5232	---	---
BLE_1M	Ant1	2440	1.0257	2439.4985	2440.5242	---	---
BLE_1M	Ant1	2480	1.0297	2479.4952	2480.5249	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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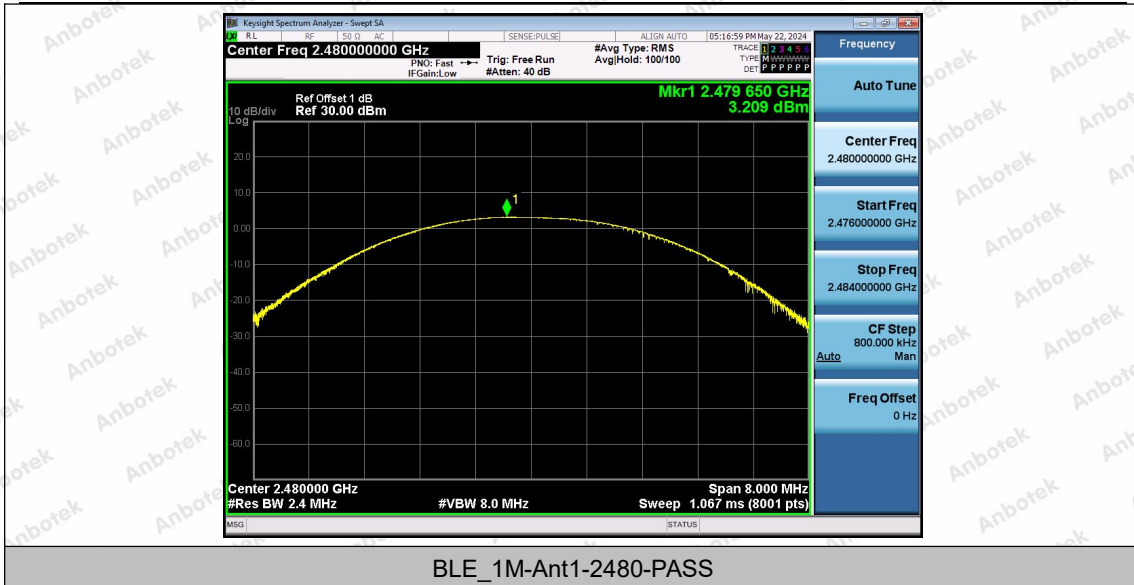
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.22	≤30	PASS
BLE_1M	Ant1	2440	3.37	≤30	PASS
BLE_1M	Ant1	2480	3.21	≤30	PASS

Test Graphs Peak





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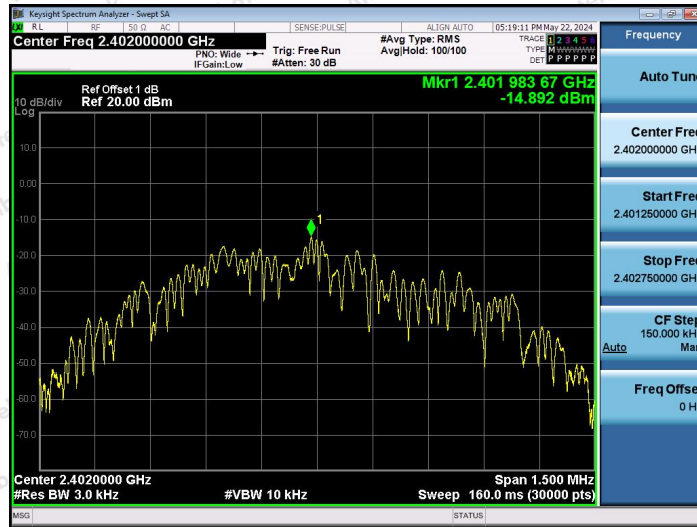
Appendix D: Maximum power spectral density

Test Result

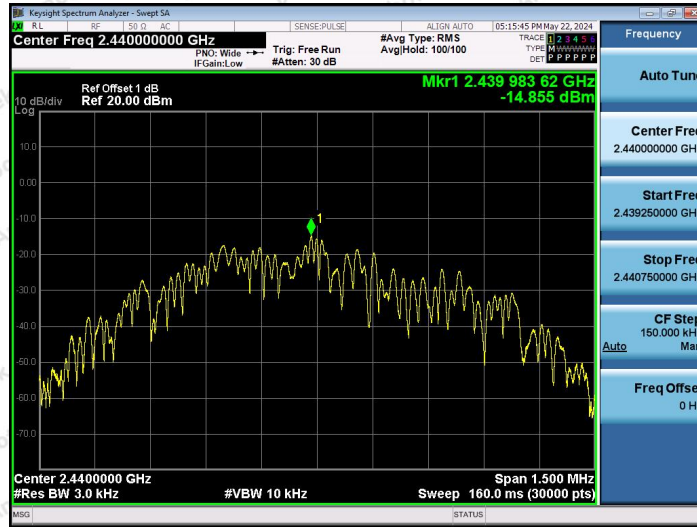
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.89	≤8.00	PASS
BLE_1M	Ant1	2440	-14.86	≤8.00	PASS
BLE_1M	Ant1	2480	-14.94	≤8.00	PASS



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	3.24	-38.75	≤-16.76	PASS
BLE_1M	Ant1	High	2480	3.10	-45.68	≤-16.9	PASS

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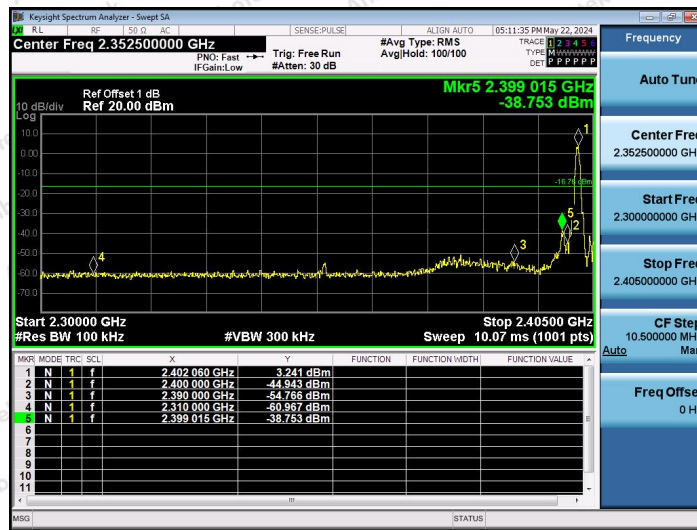
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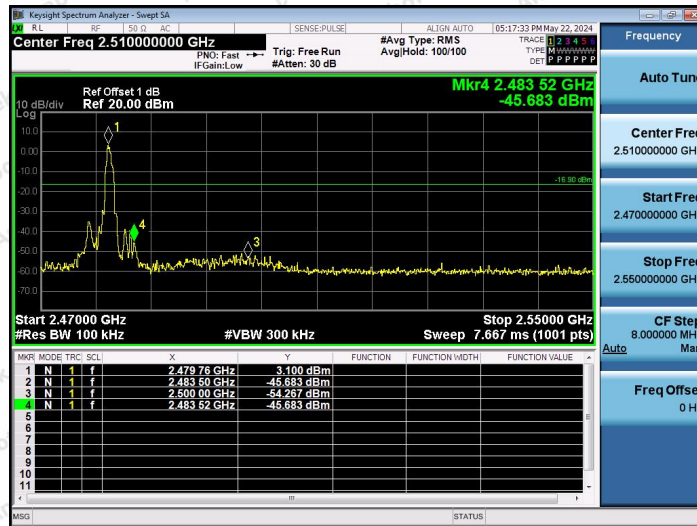
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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

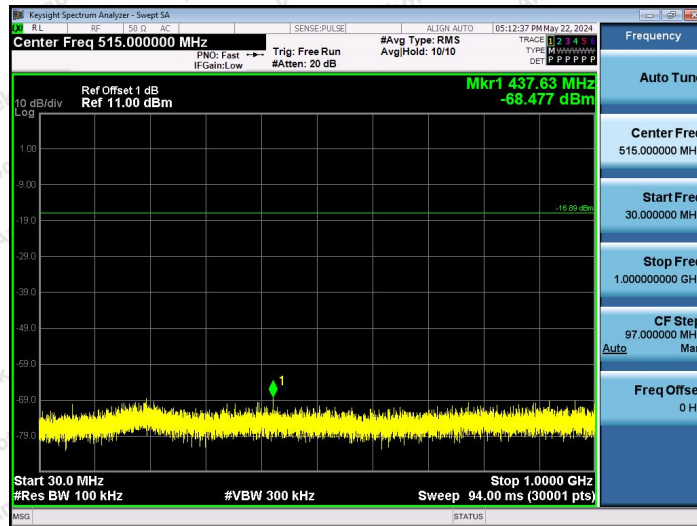
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.11	3.11	---	PASS
BLE_1M	Ant1	2402	30~1000	3.11	-68.48	≤-16.89	PASS
BLE_1M	Ant1	2402	1000~26500	3.11	-39.54	≤-16.89	PASS
BLE_1M	Ant1	2440	0~Reference	3.20	3.20	---	PASS
BLE_1M	Ant1	2440	30~1000	3.20	-69.54	≤-16.8	PASS
BLE_1M	Ant1	2440	1000~26500	3.20	-39.76	≤-16.8	PASS
BLE_1M	Ant1	2480	0~Reference	3.08	3.08	---	PASS
BLE_1M	Ant1	2480	30~1000	3.08	-69.26	≤-16.92	PASS
BLE_1M	Ant1	2480	1000~26500	3.08	-42.15	≤-16.92	PASS



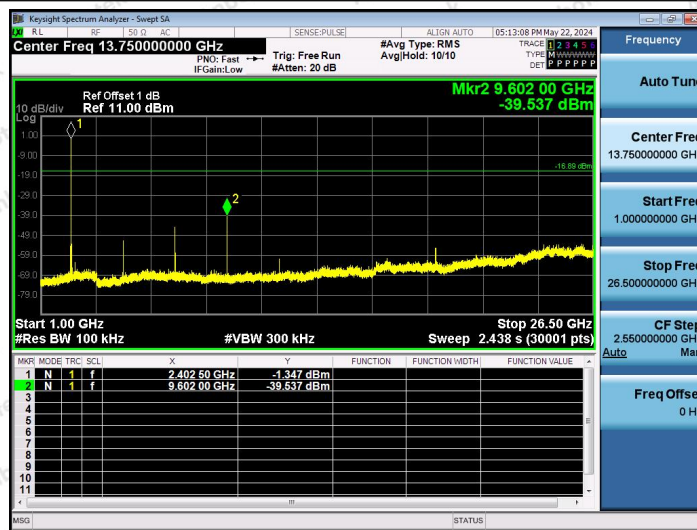
Test Graphs



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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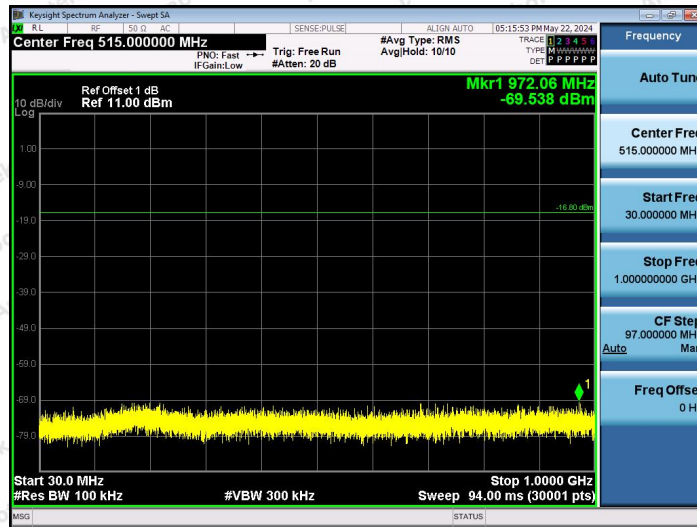
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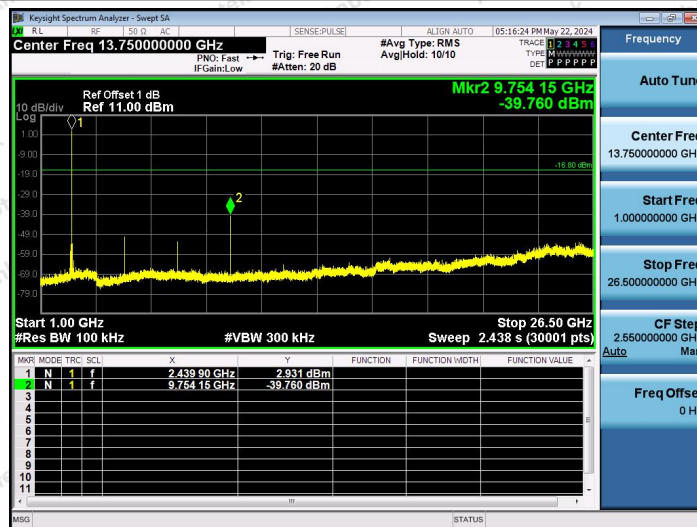




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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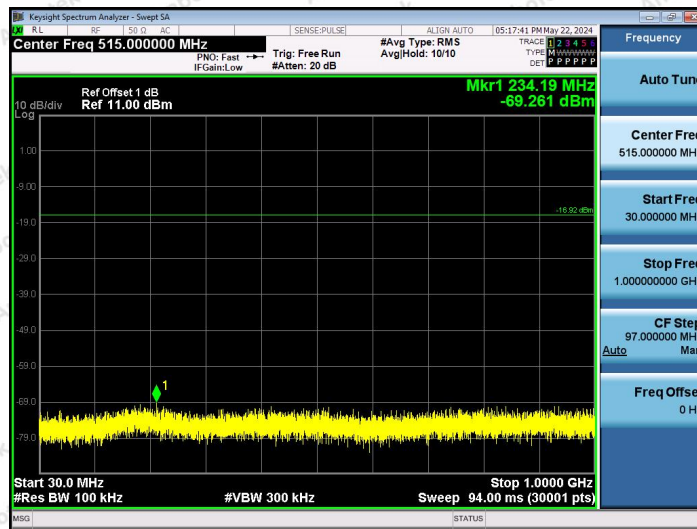
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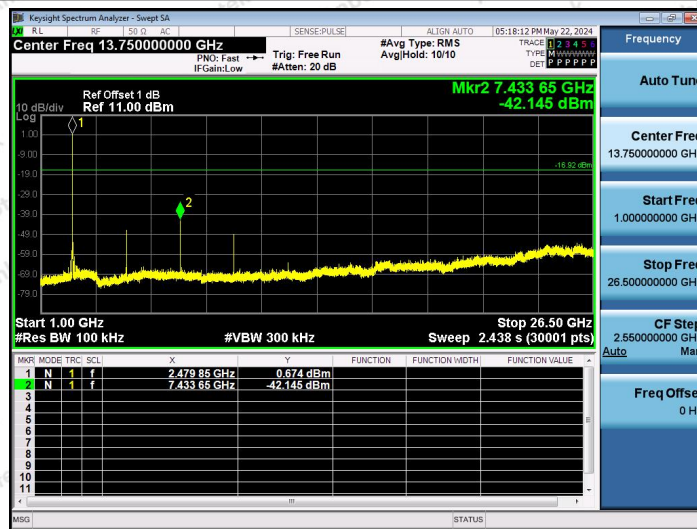




BLE_1M-Ant1-2480-0~Reference-PASS



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	0.10	0.63	15.87	7.99
BLE_1M	Ant1	2440	0.10	0.63	15.87	7.99
BLE_1M	Ant1	2480	0.10	0.63	15.87	7.99

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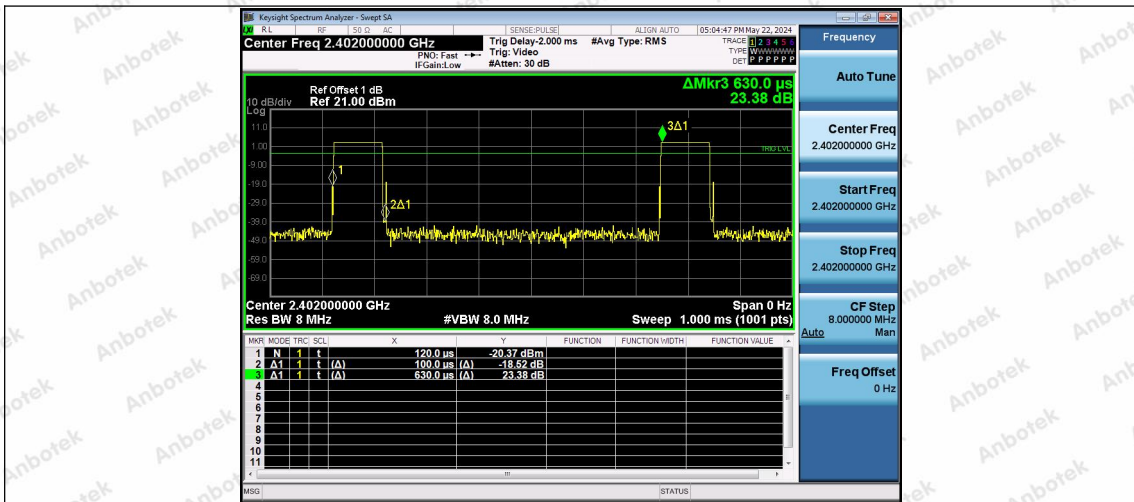
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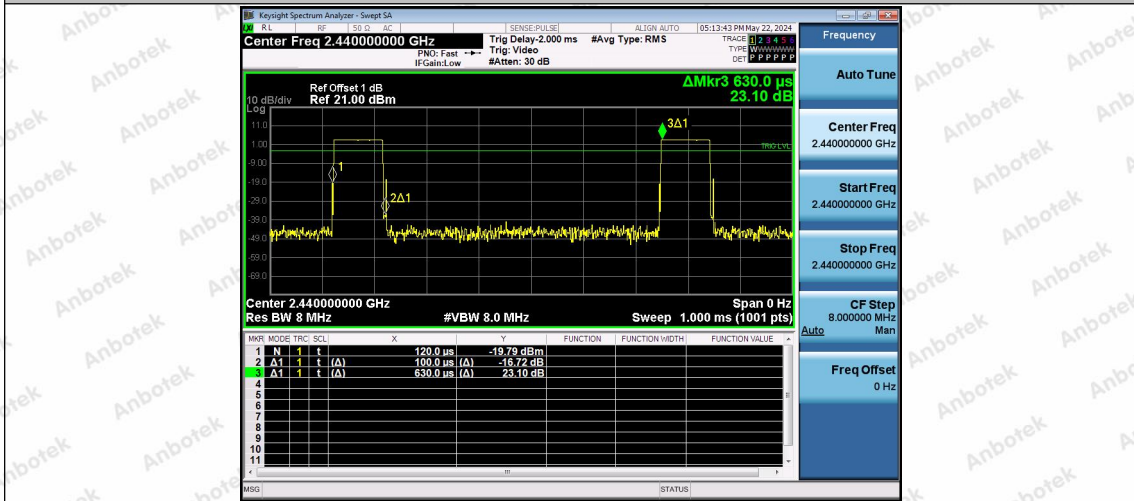
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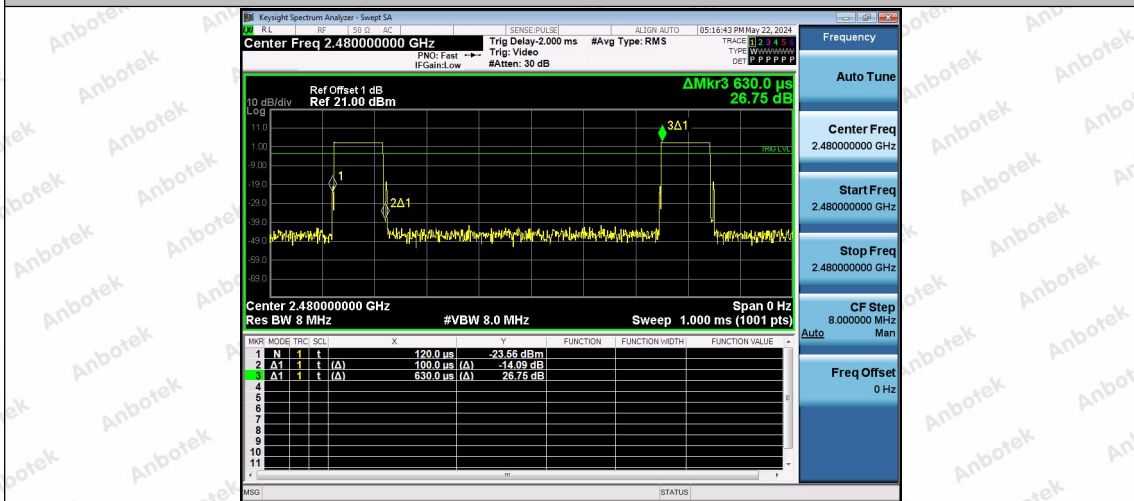
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

---End---

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