

Appendix Test Data

Report No.:	18220WC40029402	Test Sample No.:	1-2-2
Start Test Date:	2024.04.30	Finish Test Date:	2024.05.06
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

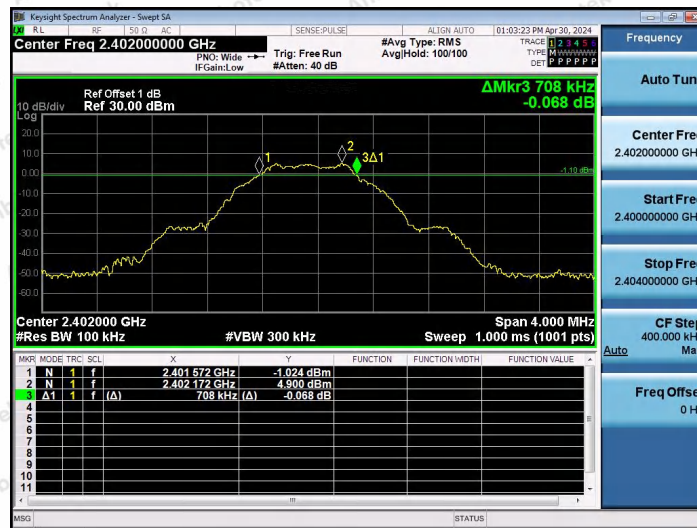
Appendix A: 6dB Bandwidth

Test Result

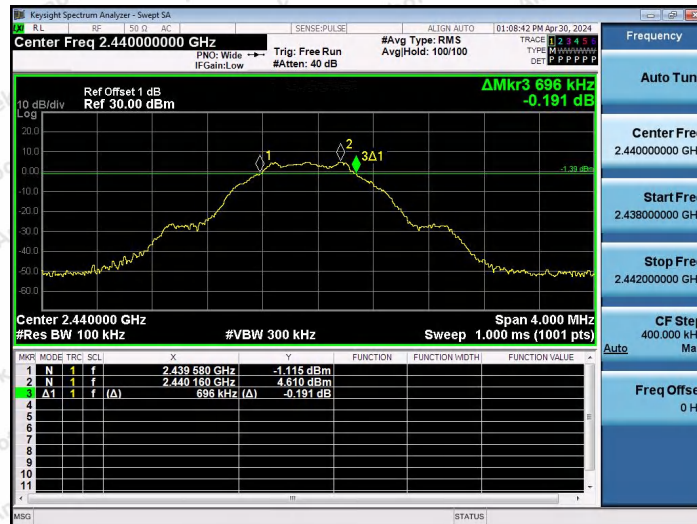
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant0	2402	0.708	2401.572	2402.280	0.5	PASS
BLE_1M	Ant0	2440	0.696	2439.580	2440.276	0.5	PASS
BLE_1M	Ant0	2480	0.708	2479.568	2480.276	0.5	PASS
BLE_2M	Ant0	2402	1.172	2401.344	2402.516	0.5	PASS
BLE_2M	Ant0	2440	1.180	2439.304	2440.484	0.5	PASS
BLE_2M	Ant0	2480	1.168	2479.336	2480.504	0.5	PASS



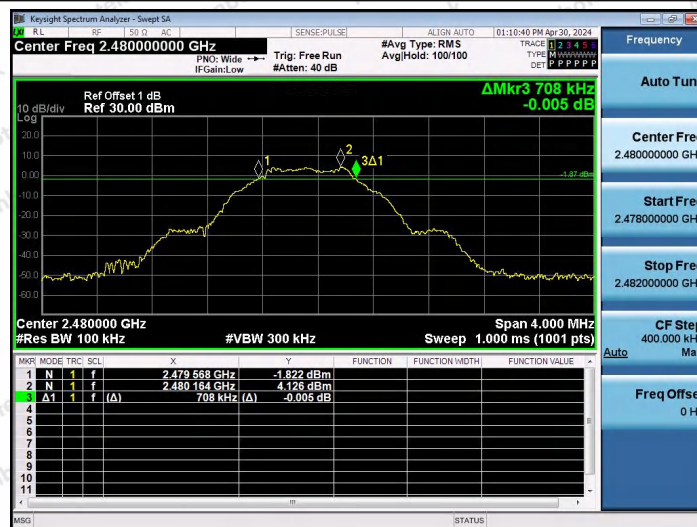
Test Graphs



BLE_1M-Ant0-2402-PASS



BLE_1M-Ant0-2440-PASS



BLE_1M-Ant0-2480-PASS

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BLE_2M-Ant0-2402-PASS



BLE_2M-Ant0-2440-PASS



BLE_2M-Ant0-2480-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	Ant0	2402	1.0425	2401.4131	2402.4556	---	---
BLE_1M	Ant0	2440	1.0392	2439.4145	2440.4537	---	---
BLE_1M	Ant0	2480	1.0470	2479.4094	2480.4564	---	---
BLE_2M	Ant0	2402	2.1027	2400.8963	2402.9990	---	---
BLE_2M	Ant0	2440	2.0885	2438.8997	2440.9882	---	---
BLE_2M	Ant0	2480	2.0923	2478.8937	2480.9860	---	---

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Test Graphs



BLE_1M-Ant0-2402



BLE_1M-Ant0-2440



BLE_1M-Ant0-2480

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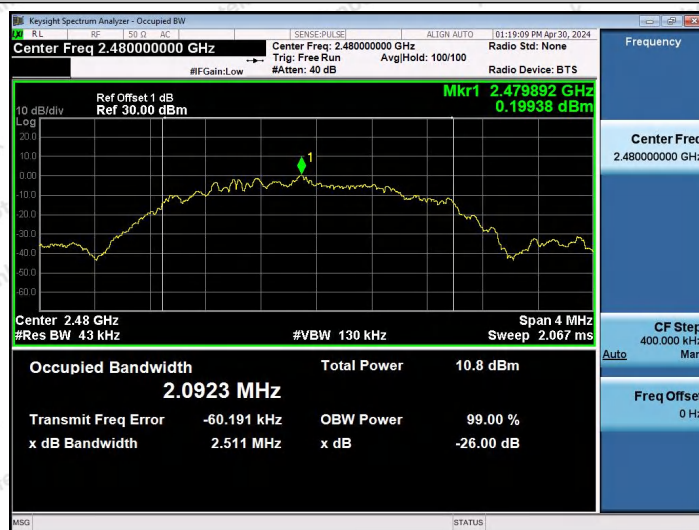




BLE_2M-Ant0-2402



BLE_2M-Ant0-2440



BLE_2M-Ant0-2480

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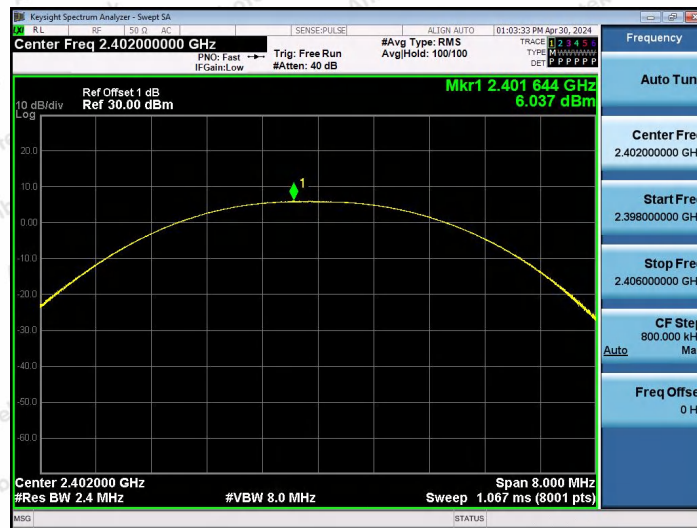
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant0	2402	6.04	≤30	6.04	≤36	PASS
BLE_1M	Ant0	2440	5.79	≤30	5.79	≤36	PASS
BLE_1M	Ant0	2480	5.22	≤30	5.22	≤36	PASS
BLE_2M	Ant0	2402	6.07	≤30	6.07	≤36	PASS
BLE_2M	Ant0	2440	5.74	≤30	5.74	≤36	PASS
BLE_2M	Ant0	2480	5.22	≤30	5.22	≤36	PASS



Test Graphs Peak



BLE_1M-Ant0-2402-PASS



BLE_1M-Ant0-2440-PASS



BLE_1M-Ant0-2480-PASS

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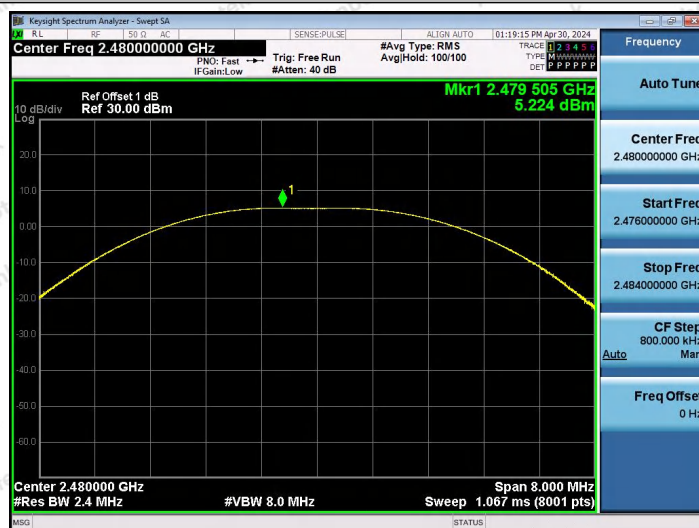




BLE_2M-Ant0-2402-PASS



BLE_2M-Ant0-2440-PASS



BLE_2M-Ant0-2480-PASS

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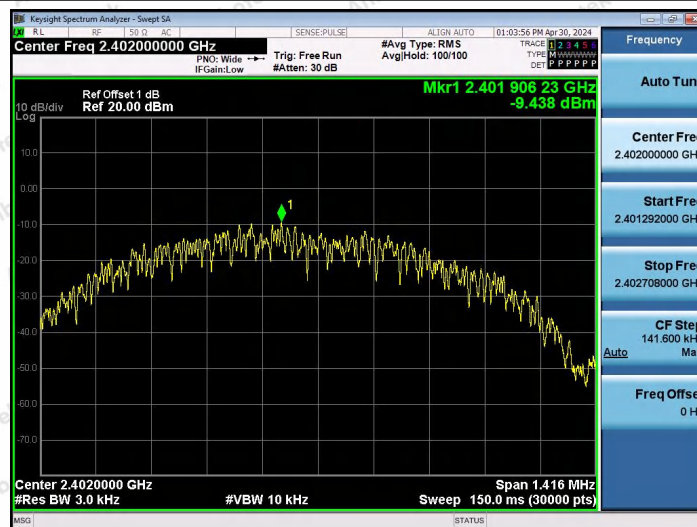
Appendix D: Maximum power spectral density

Test Result

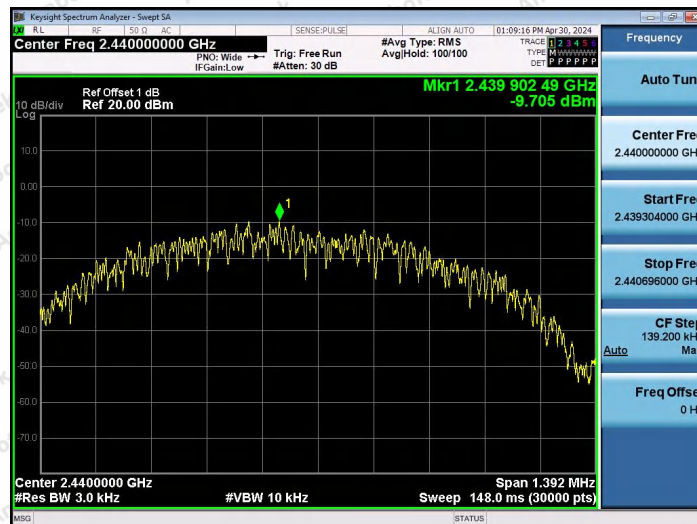
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant0	2402	-9.44	≤8.00	PASS
BLE_1M	Ant0	2440	-9.71	≤8.00	PASS
BLE_1M	Ant0	2480	-10.18	≤8.00	PASS
BLE_2M	Ant0	2402	-11.39	≤8.00	PASS
BLE_2M	Ant0	2440	-11.72	≤8.00	PASS
BLE_2M	Ant0	2480	-12.18	≤8.00	PASS



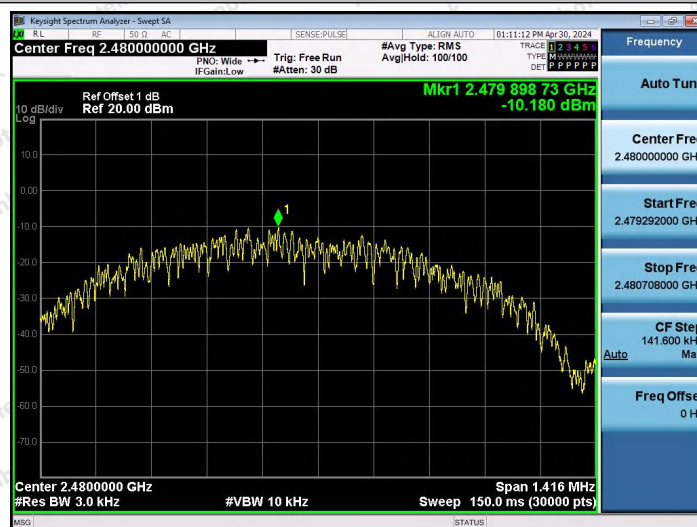
Test Graphs



BLE_1M-Ant0-2402-PASS



BLE_1M-Ant0-2440-PASS



BLE_1M-Ant0-2480-PASS

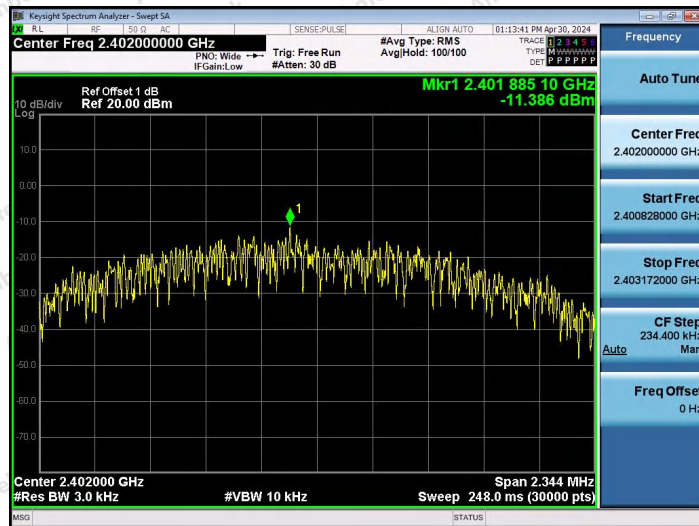
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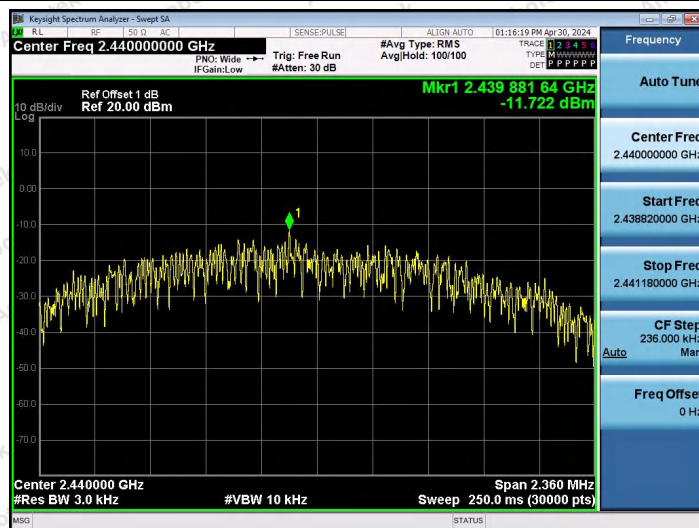


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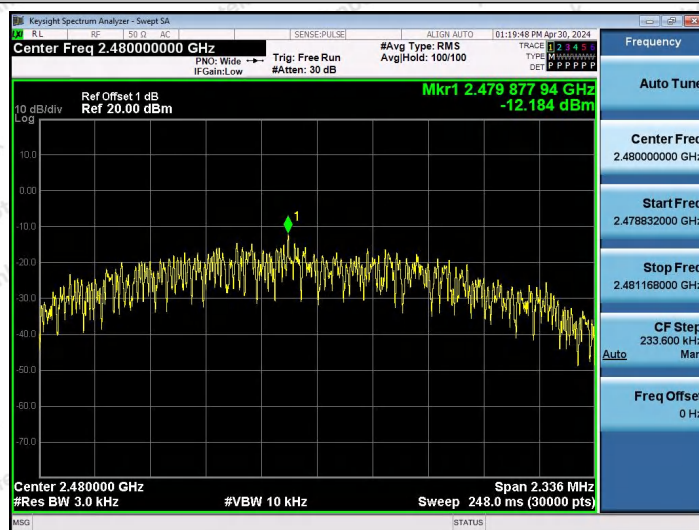




BLE_2M-Ant0-2402-PASS



BLE_2M-Ant0-2440-PASS



BLE_2M-Ant0-2480-PASS

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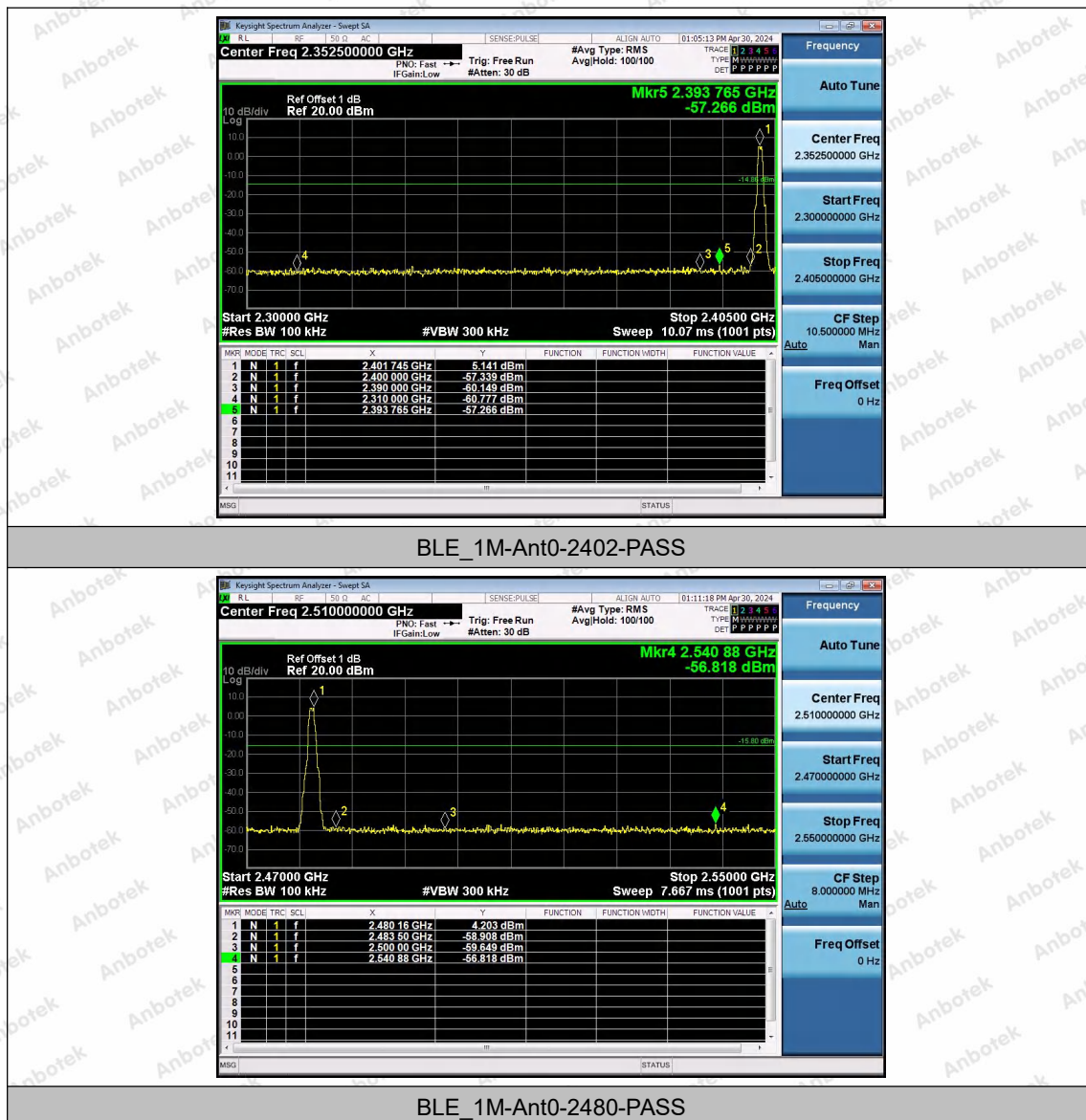


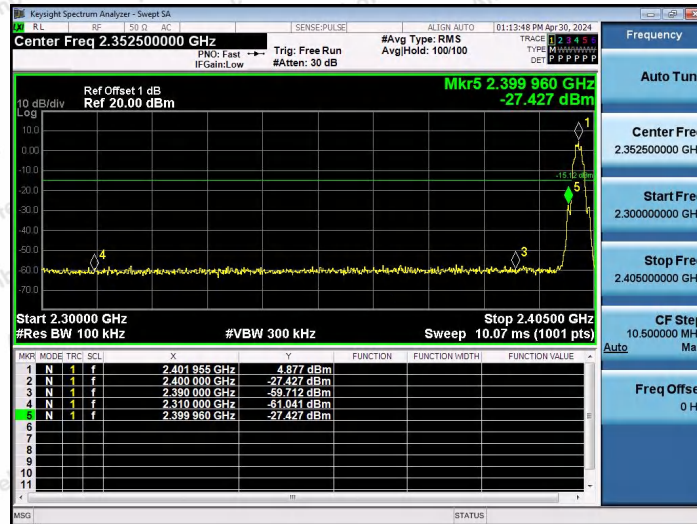
Appendix E: Band edge measurements

Test Result

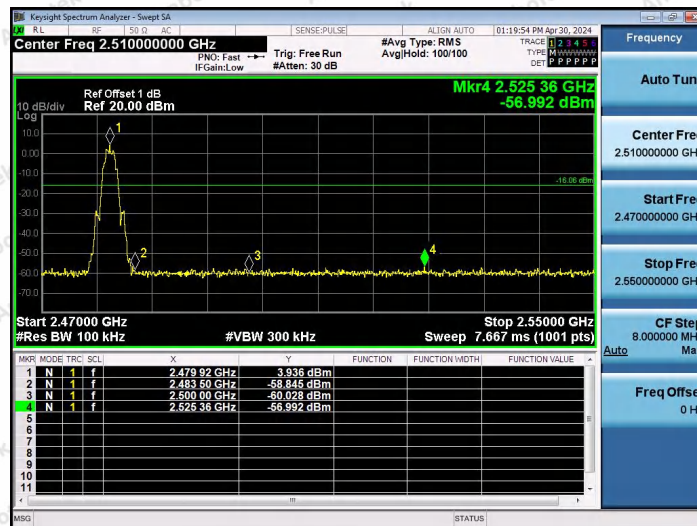
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant0	Low	2402	5.14	-57.27	≤-14.86	PASS
BLE_1M	Ant0	High	2480	4.20	-56.82	≤-15.8	PASS
BLE_2M	Ant0	Low	2402	4.88	-27.43	≤-15.12	PASS
BLE_2M	Ant0	High	2480	3.94	-56.99	≤-16.06	PASS

Test Graphs





BLE_2M-Ant0-2402-PASS



BLE_2M-Ant0-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

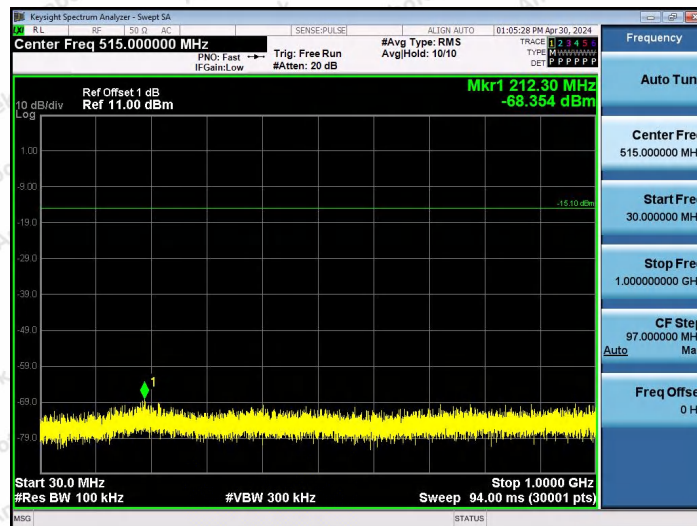
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant0	2402	0~Reference	4.90	4.90	---	PASS
BLE_1M	Ant0	2402	30~1000	4.90	-68.35	≤-15.1	PASS
BLE_1M	Ant0	2402	1000~26500	4.90	-45.5	≤-15.1	PASS
BLE_1M	Ant0	2440	0~Reference	4.68	4.68	---	PASS
BLE_1M	Ant0	2440	30~1000	4.68	-68.7	≤-15.32	PASS
BLE_1M	Ant0	2440	1000~26500	4.68	-47.24	≤-15.32	PASS
BLE_1M	Ant0	2480	0~Reference	4.05	4.05	---	PASS
BLE_1M	Ant0	2480	30~1000	4.05	-68.94	≤-15.95	PASS
BLE_1M	Ant0	2480	1000~26500	4.05	-49.43	≤-15.95	PASS
BLE_2M	Ant0	2402	0~Reference	4.83	4.83	---	PASS
BLE_2M	Ant0	2402	30~1000	4.83	-68.04	≤-15.17	PASS
BLE_2M	Ant0	2402	1000~26500	4.83	-46.2	≤-15.17	PASS
BLE_2M	Ant0	2440	0~Reference	4.52	4.52	---	PASS
BLE_2M	Ant0	2440	30~1000	4.52	-68.73	≤-15.48	PASS
BLE_2M	Ant0	2440	1000~26500	4.52	-48.77	≤-15.48	PASS
BLE_2M	Ant0	2480	0~Reference	4.04	4.04	---	PASS
BLE_2M	Ant0	2480	30~1000	4.04	-67.87	≤-15.96	PASS
BLE_2M	Ant0	2480	1000~26500	4.04	-49.28	≤-15.96	PASS



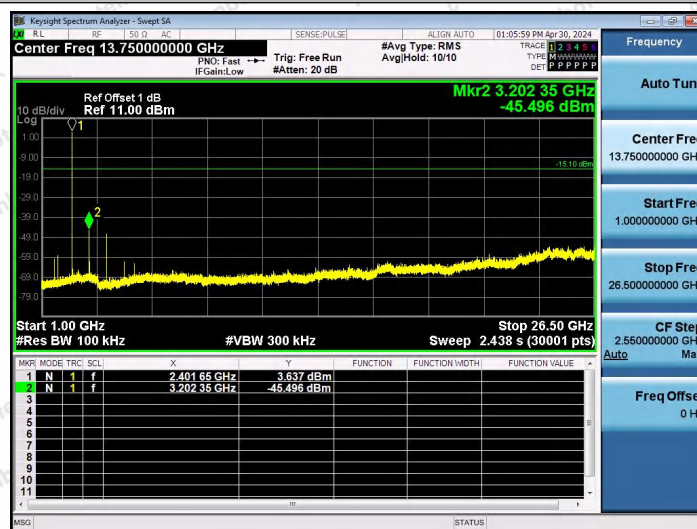
Test Graphs



BLE_1M-Ant0-2402-0~Reference-PASS



BLE_1M-Ant0-2402-30~1000-PASS



BLE_1M-Ant0-2402-1000~26500-PASS

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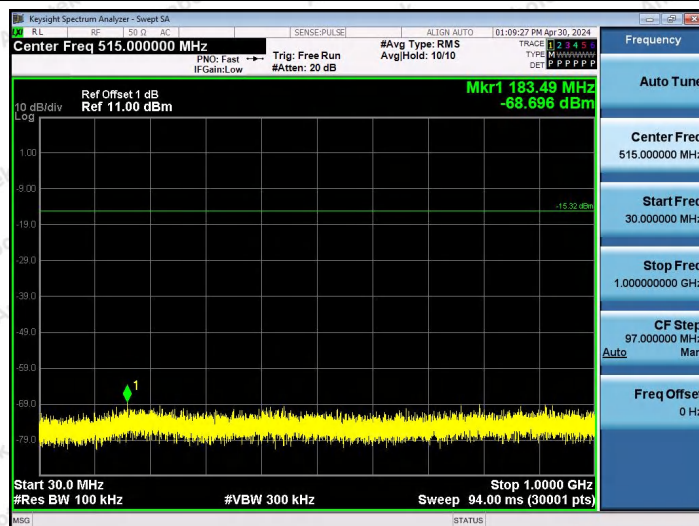


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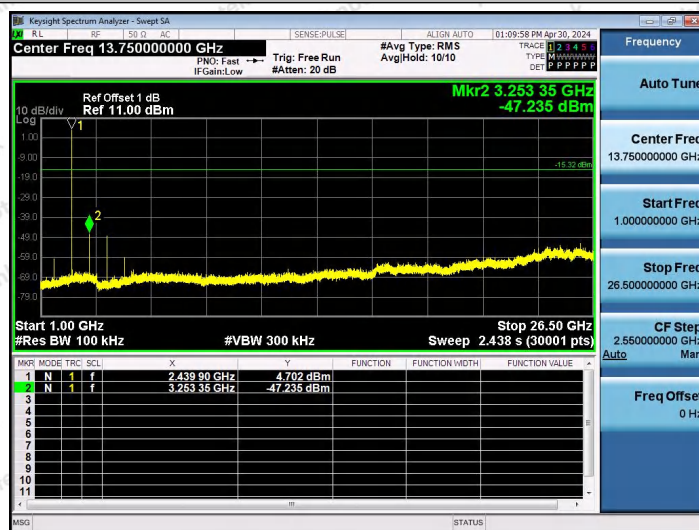




BLE_1M-Ant0-2440-0~Reference-PASS



BLE_1M-Ant0-2440-30~1000-PASS



BLE_1M-Ant0-2440-1000~26500-PASS

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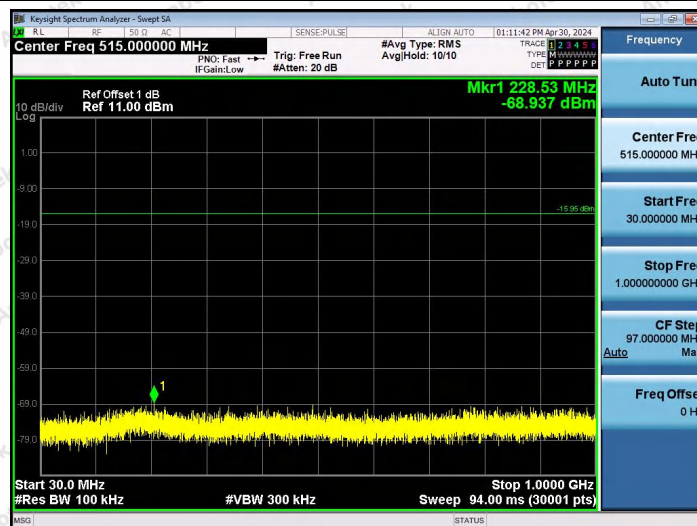


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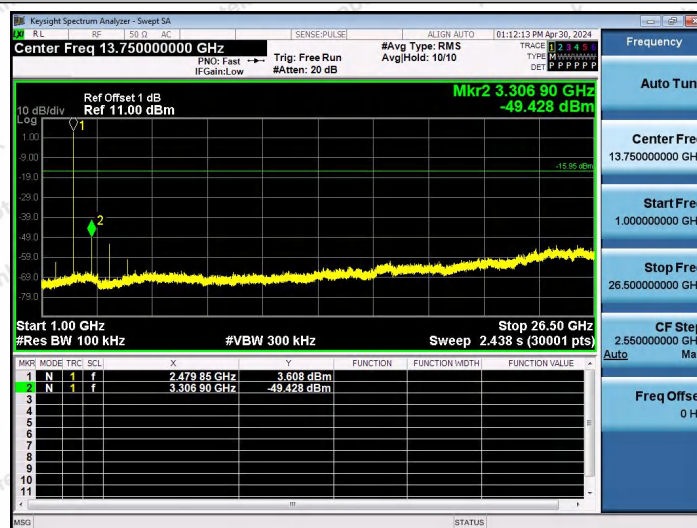




BLE_1M-Ant0-2480-0~Reference-PASS



BLE_1M-Ant0-2480-30~1000-PASS



BLE_1M-Ant0-2480-1000~26500-PASS

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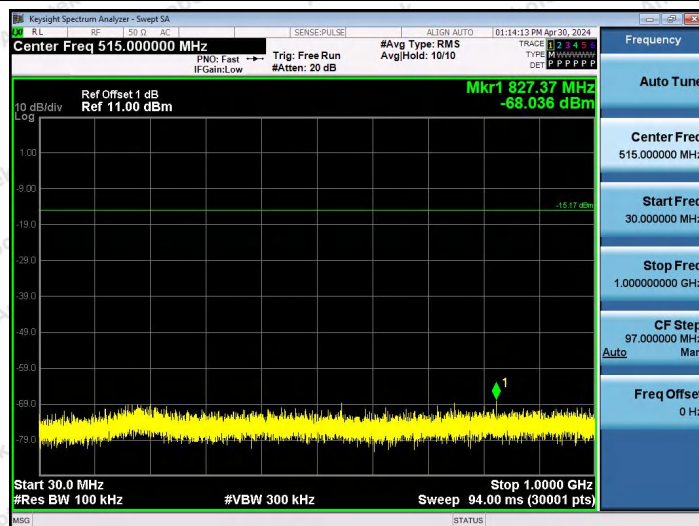


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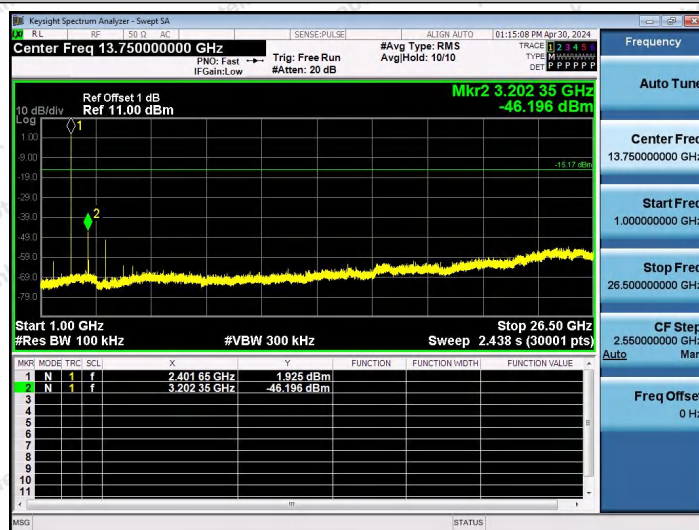




BLE_2M-Ant0-2402-0~Reference-PASS



BLE_2M-Ant0-2402-30~1000-PASS



BLE_2M-Ant0-2402-1000~26500-PASS

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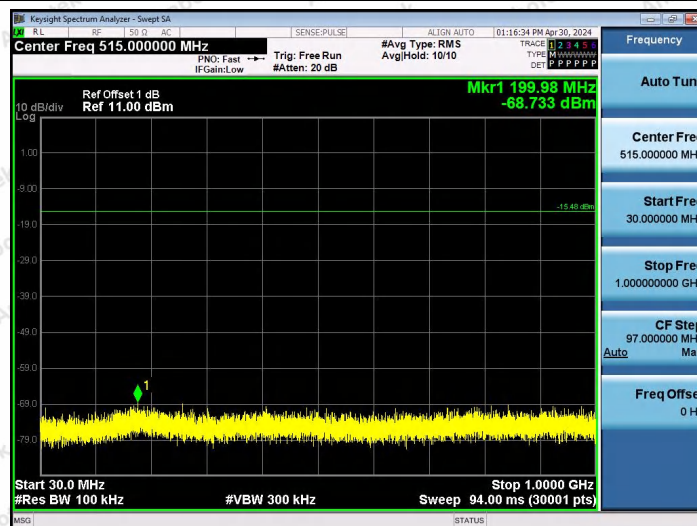


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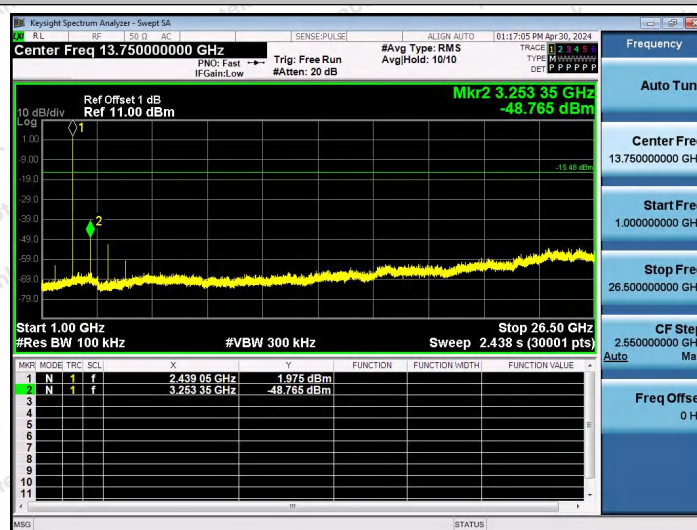




BLE_2M-Ant0-2440-0~Reference-PASS



BLE_2M-Ant0-2440-30~1000-PASS



BLE_2M-Ant0-2440-1000~26500-PASS

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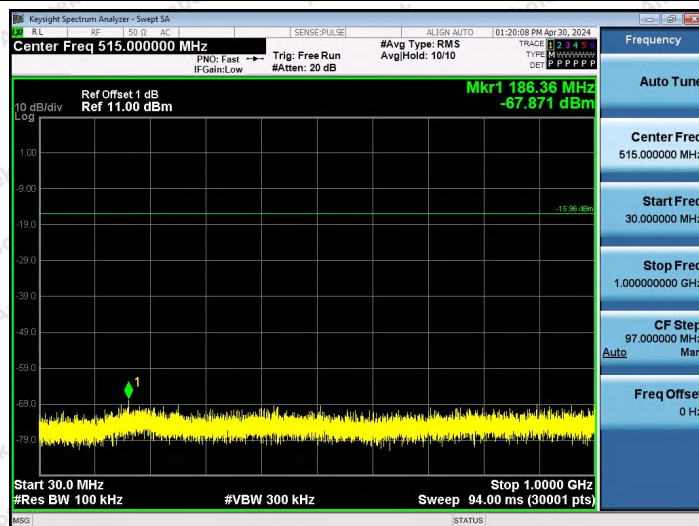


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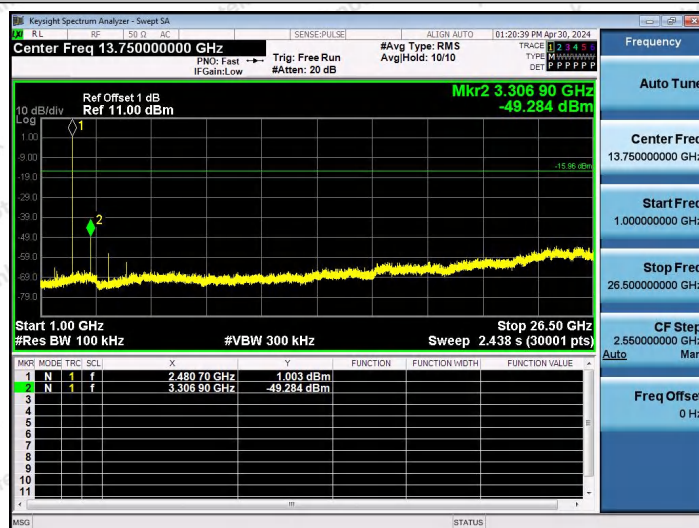




BLE_2M-Ant0-2480-0~Reference-PASS



BLE_2M-Ant0-2480-30~1000-PASS



BLE_2M-Ant0-2480-1000~26500-PASS

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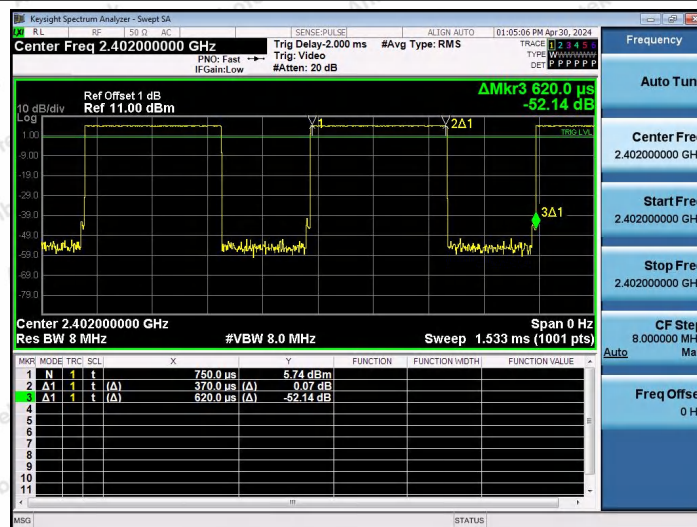
Appendix G: Duty Cycle

Test Result

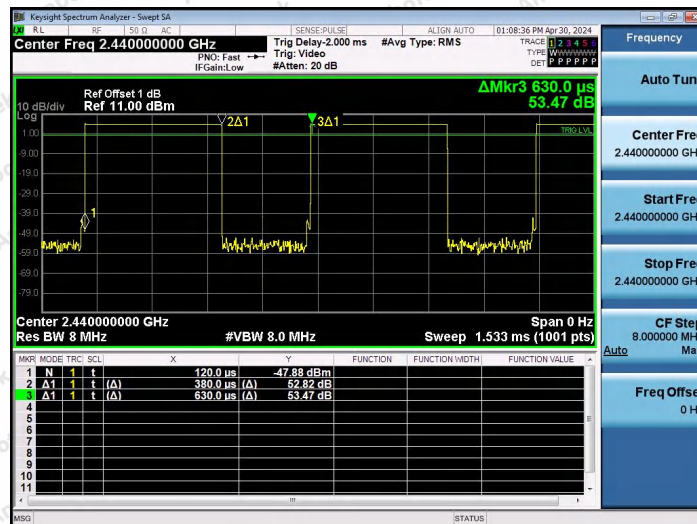
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant0	2402	0.37	0.62	59.68	2.24
BLE_1M	Ant0	2440	0.38	0.63	60.32	2.20
BLE_1M	Ant0	2480	0.38	0.63	60.32	2.20
BLE_2M	Ant0	2402	0.20	0.63	31.75	4.98
BLE_2M	Ant0	2440	0.20	0.63	31.75	4.98
BLE_2M	Ant0	2480	0.19	0.62	30.65	5.14



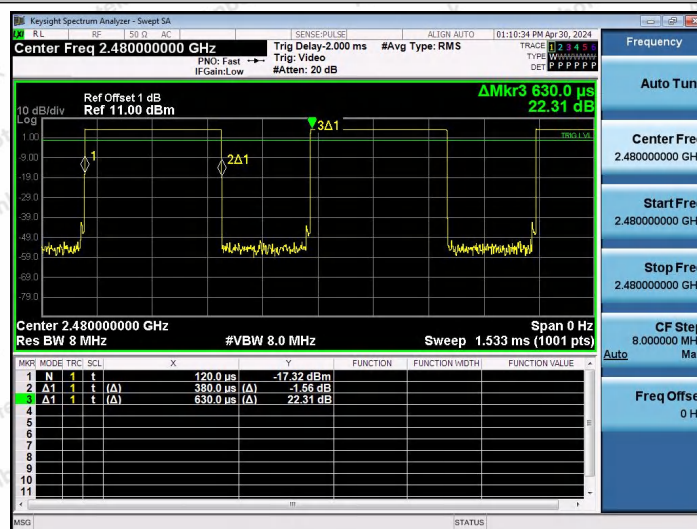
Test Graphs



NTNV-BLE_1M-Ant0-2402



NTNV-BLE_1M-Ant0-2440



NTNV-BLE_1M-Ant0-2480

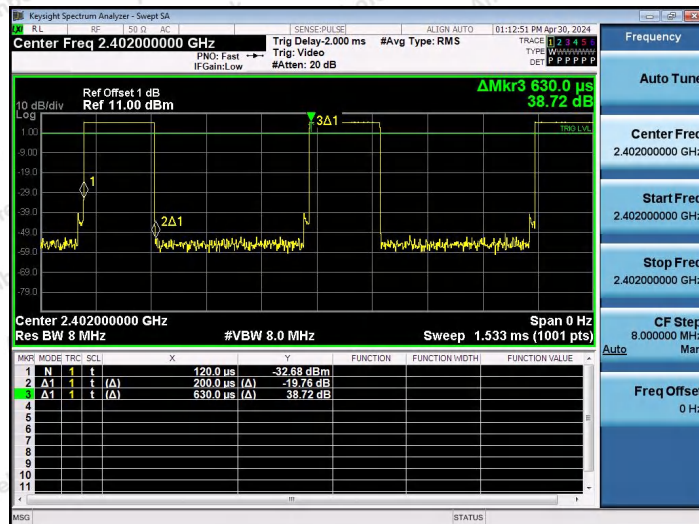
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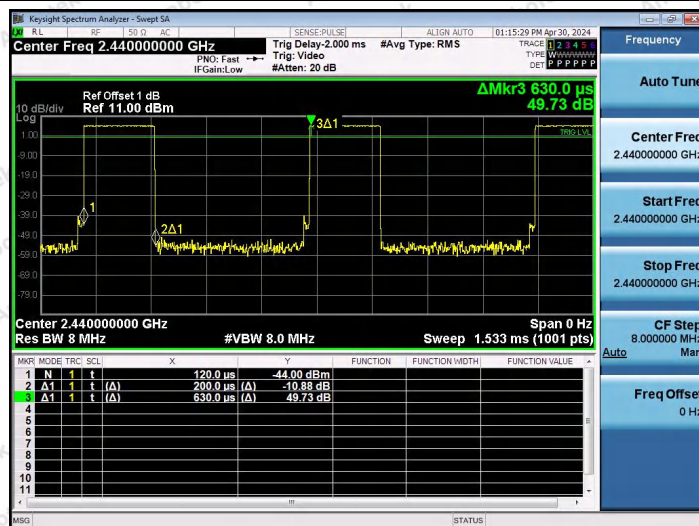


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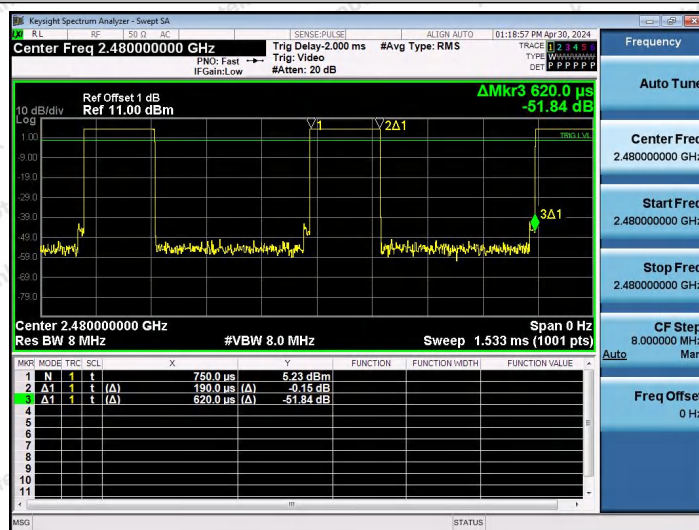




NTNV-BLE_2M-Ant0-2402



NTNV-BLE_2M-Ant0-2440



NTNV-BLE_2M-Ant0-2480

---End---

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