

Appendix Test Data

Report No.:	182514C400025101	Test Sample No.:	1-2-2
Start Test Date:	2024.6.4	Finish Test Date:	2024.6.14
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	Ant1	2402	0.676	2401.664	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.672	2440.320	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.644	2480.336	0.5	PASS



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	1.0309	2401.4873	2402.5182	---	---
BLE_1M	Ant1	2440	1.0374	2439.4884	2440.5258	---	---
BLE_1M	Ant1	2480	1.0358	2479.4887	2480.5245	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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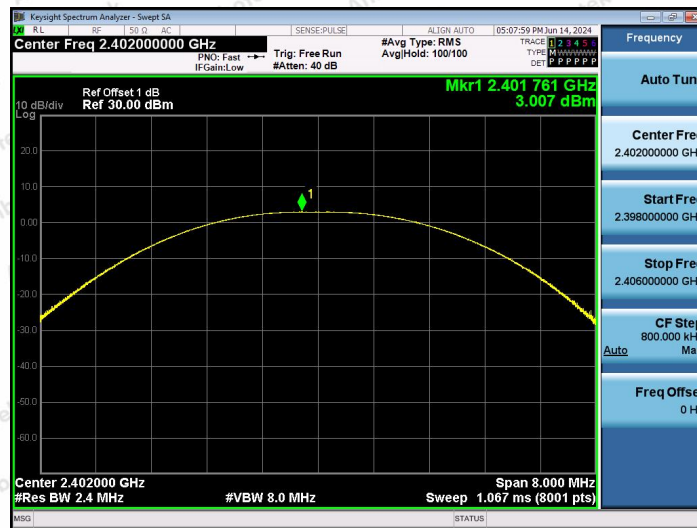
Appendix C: Maximum output power

Test Result Peak

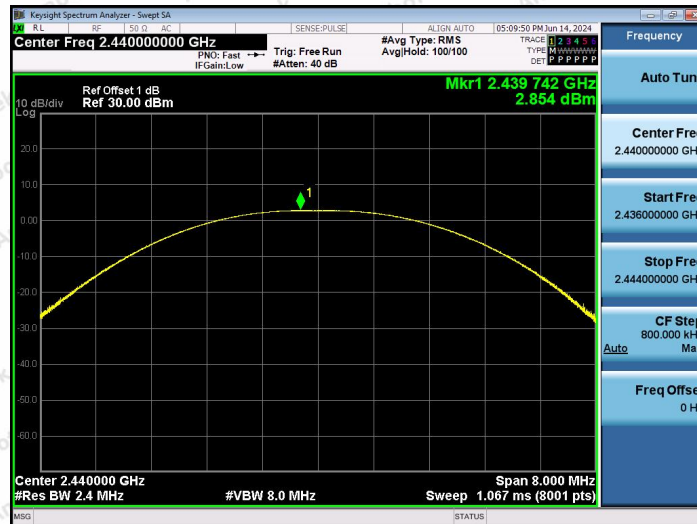
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.01	≤30	PASS
BLE_1M	Ant1	2440	2.85	≤30	PASS
BLE_1M	Ant1	2480	2.56	≤30	PASS



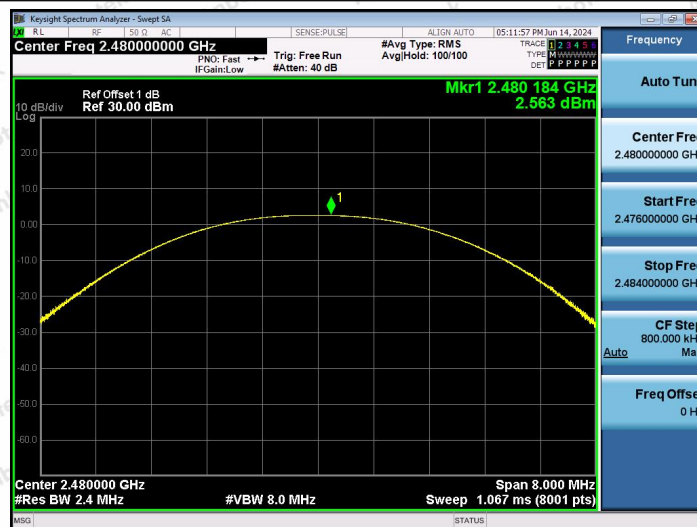
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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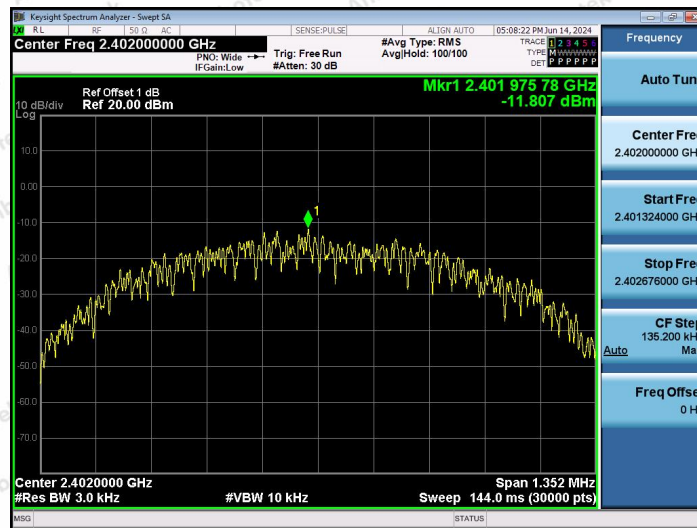
Appendix D: Maximum power spectral density

Test Result

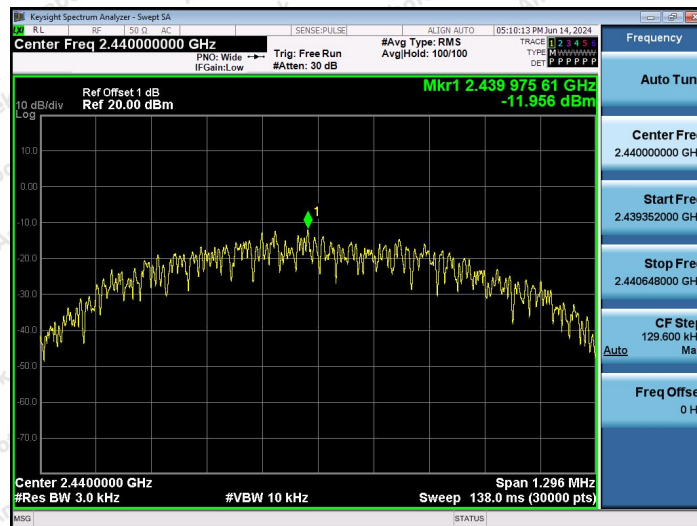
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.81	≤8.00	PASS
BLE_1M	Ant1	2440	-11.96	≤8.00	PASS
BLE_1M	Ant1	2480	-12.24	≤8.00	PASS



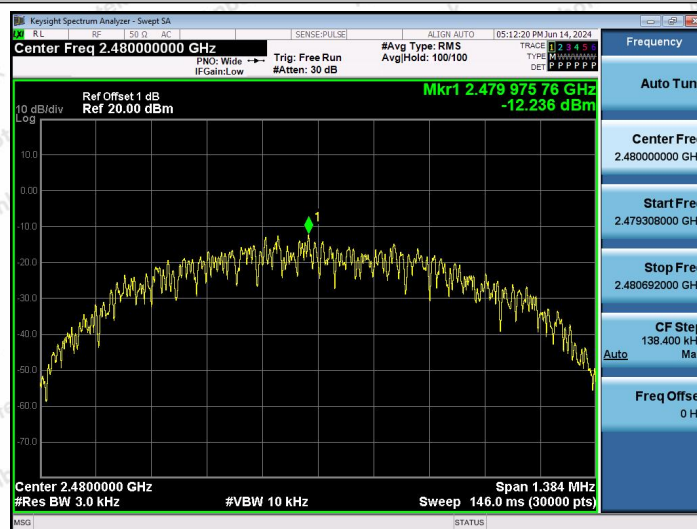
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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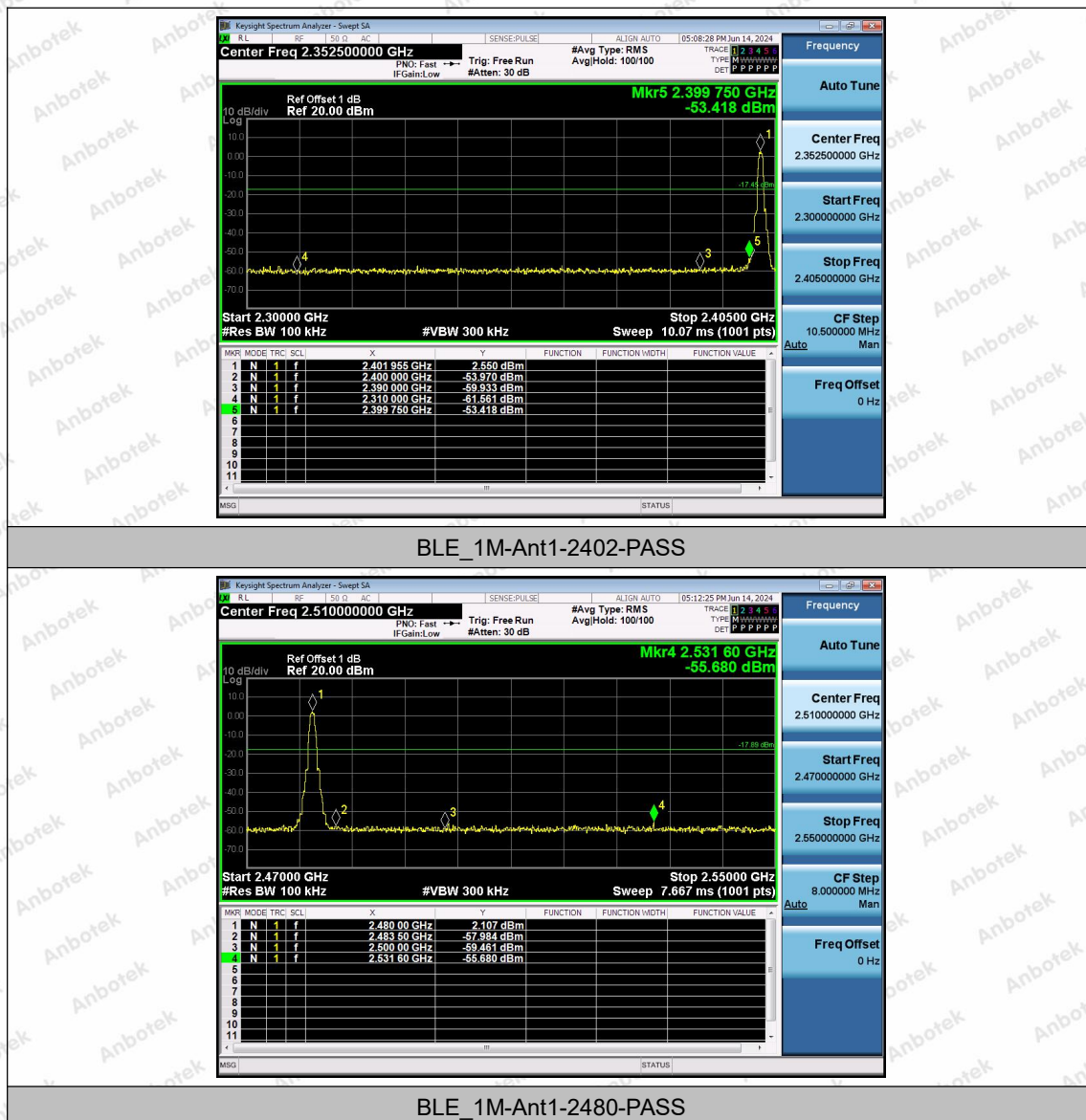


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.55	-53.42	≤-17.45	PASS
BLE_1M	Ant1	High	2480	2.11	-55.68	≤-17.89	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

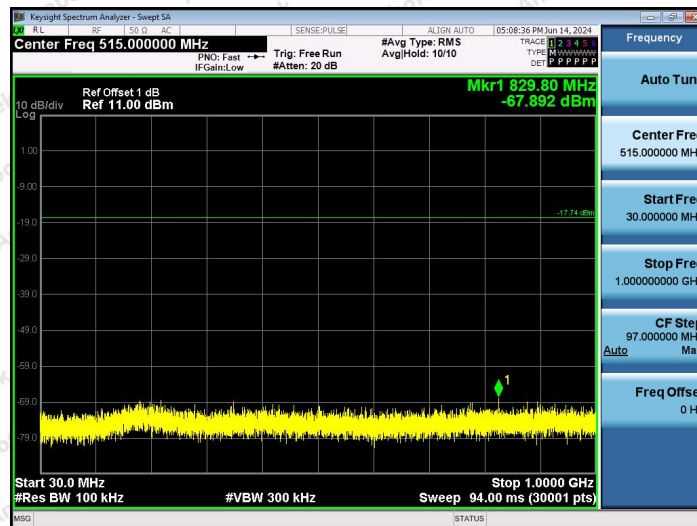
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.26	2.26	---	PASS
BLE_1M	Ant1	2402	30~1000	2.26	-67.89	≤-17.74	PASS
BLE_1M	Ant1	2402	1000~26500	2.26	-47.18	≤-17.74	PASS
BLE_1M	Ant1	2440	0~Reference	1.81	1.81	---	PASS
BLE_1M	Ant1	2440	30~1000	1.81	-68.28	≤-18.19	PASS
BLE_1M	Ant1	2440	1000~26500	1.81	-46.6	≤-18.19	PASS
BLE_1M	Ant1	2480	0~Reference	2.00	2.00	---	PASS
BLE_1M	Ant1	2480	30~1000	2.00	-68.63	≤-18	PASS
BLE_1M	Ant1	2480	1000~26500	2.00	-46.91	≤-18	PASS



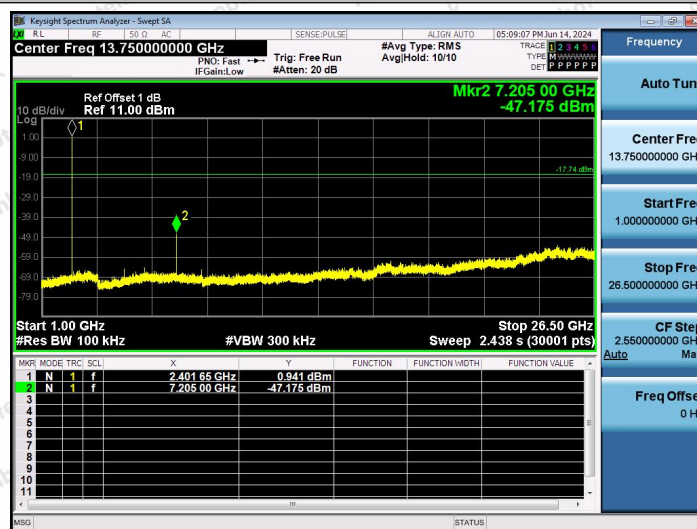
Test Graphs



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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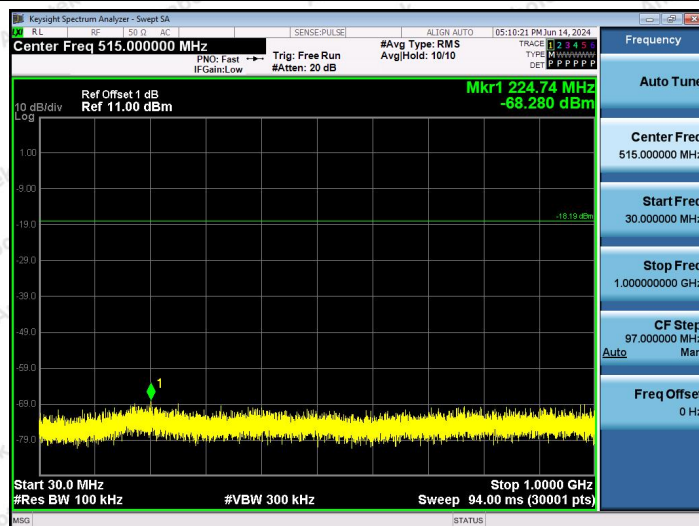


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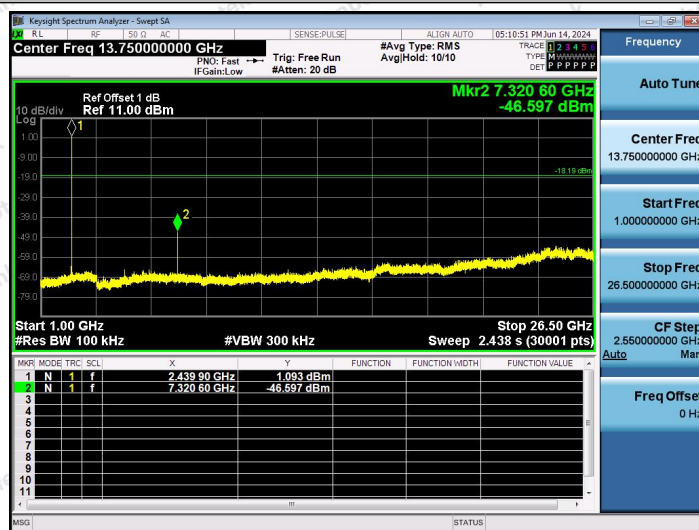




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

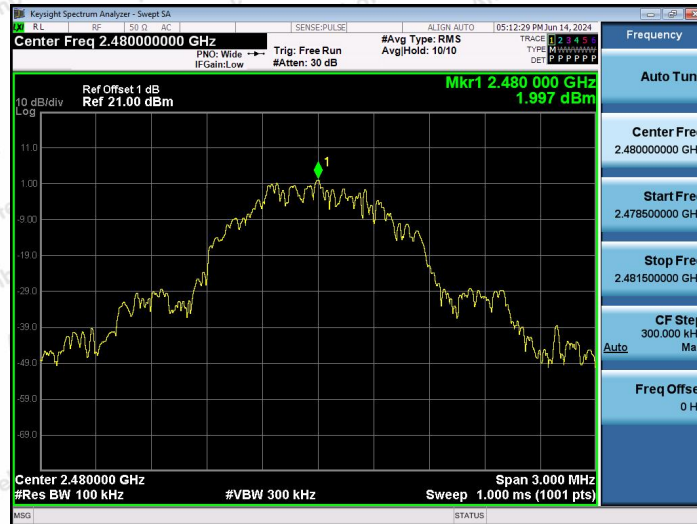
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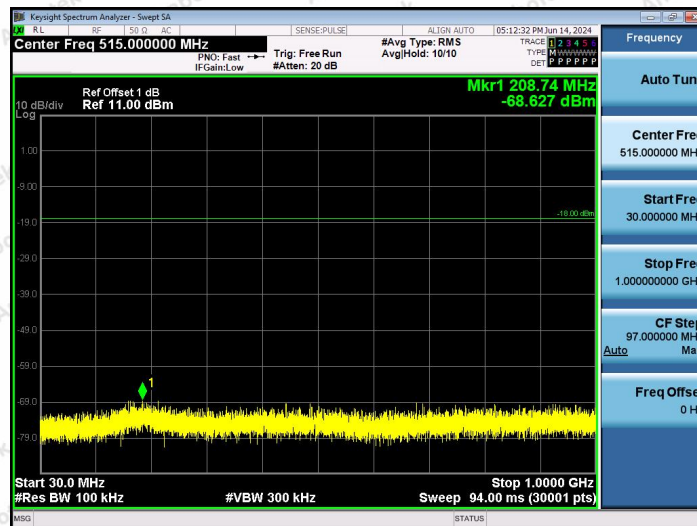


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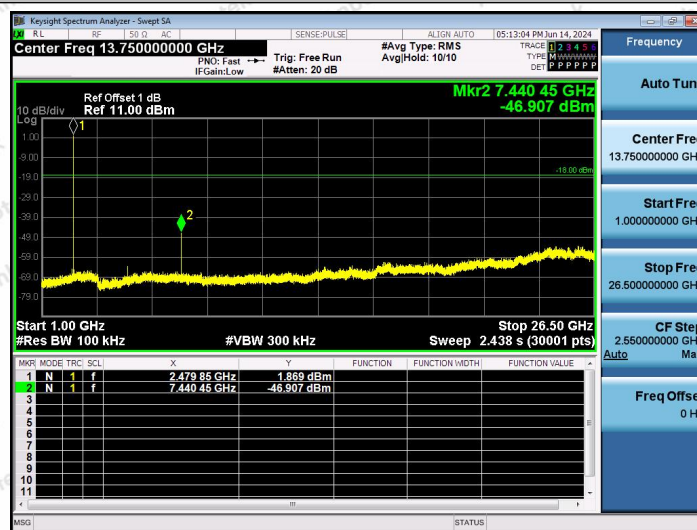




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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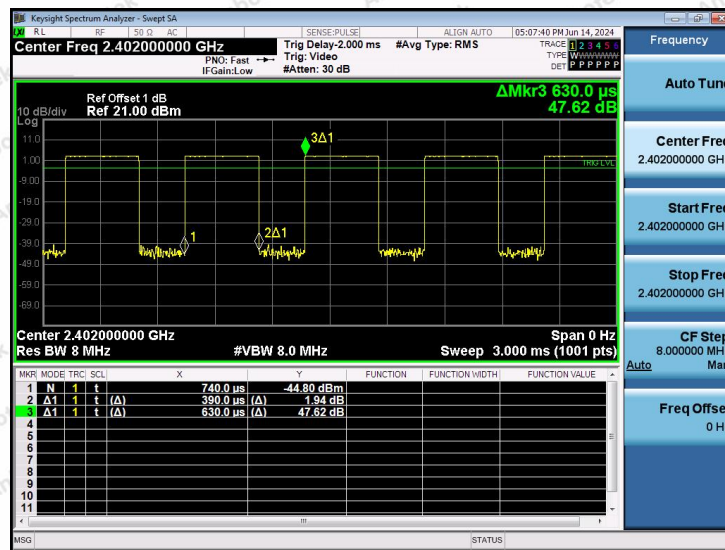
Appendix G: Duty Cycle

Test Result

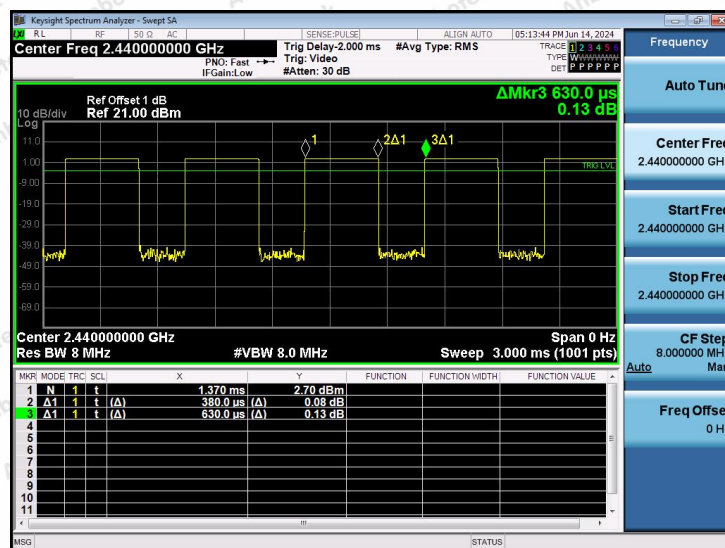
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.38	0.63	60.32	2.20
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08



Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440

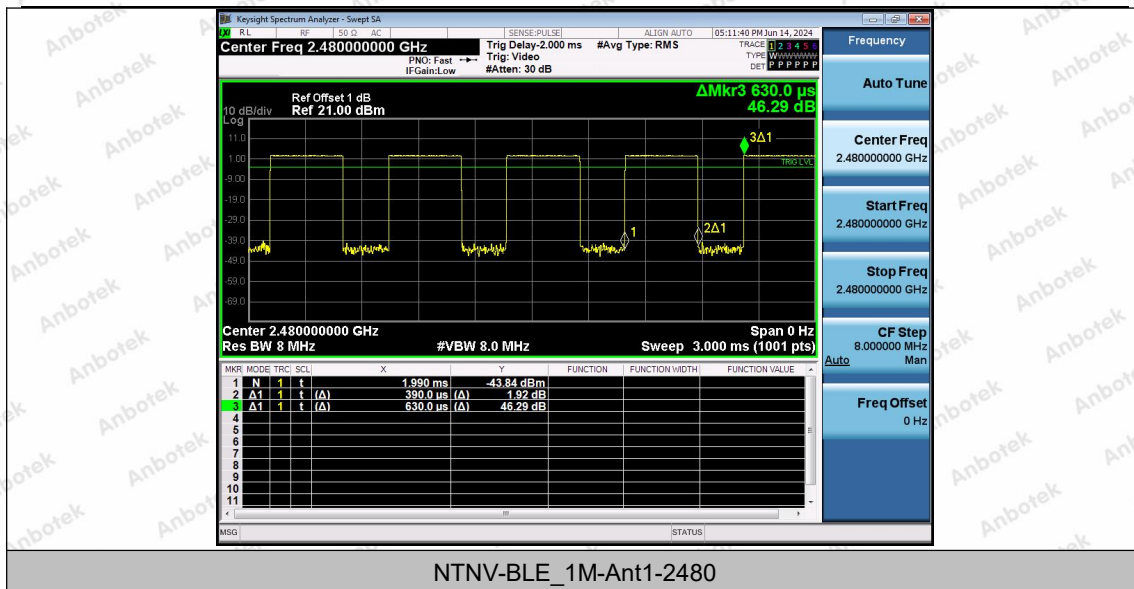
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