

Appendix Test Data

Report No.:	18220WC30245701 module1	Test Sample No.:	1-2-2
Start Test Date:	2023.11.27	Finish Test Date:	2023.11.28
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.2°C	Relative Humidity:	40%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.664	2402.324	0.5	PASS
		2440	0.692	2439.664	2440.356	0.5	PASS
		2480	0.692	2479.656	2480.348	0.5	PASS

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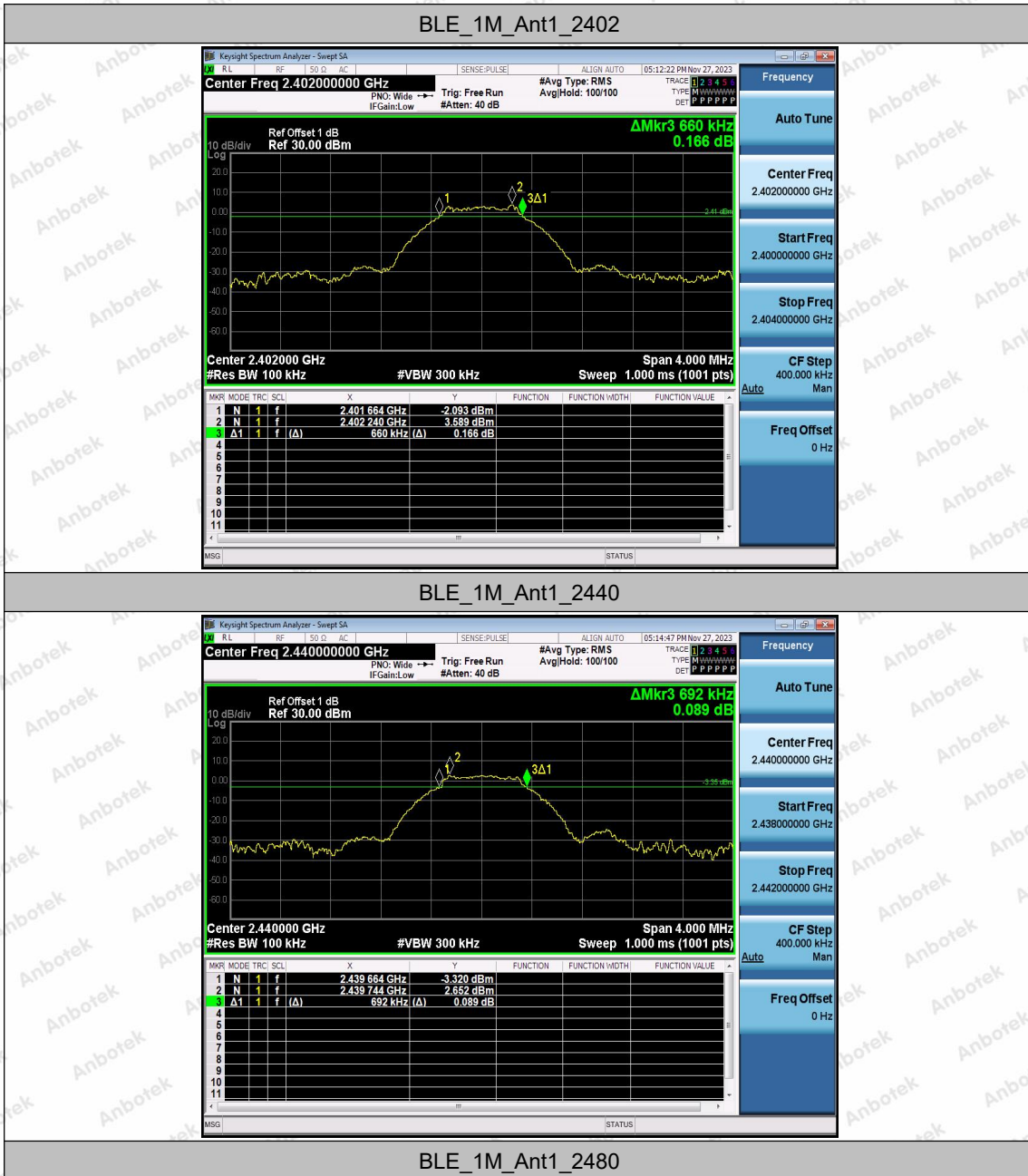
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Test Graphs

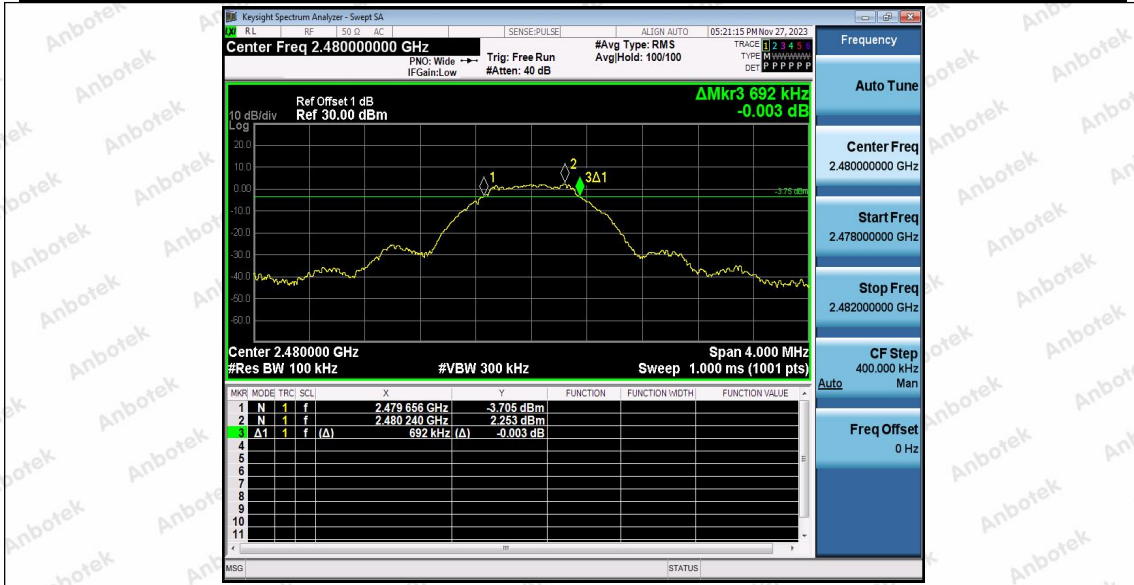


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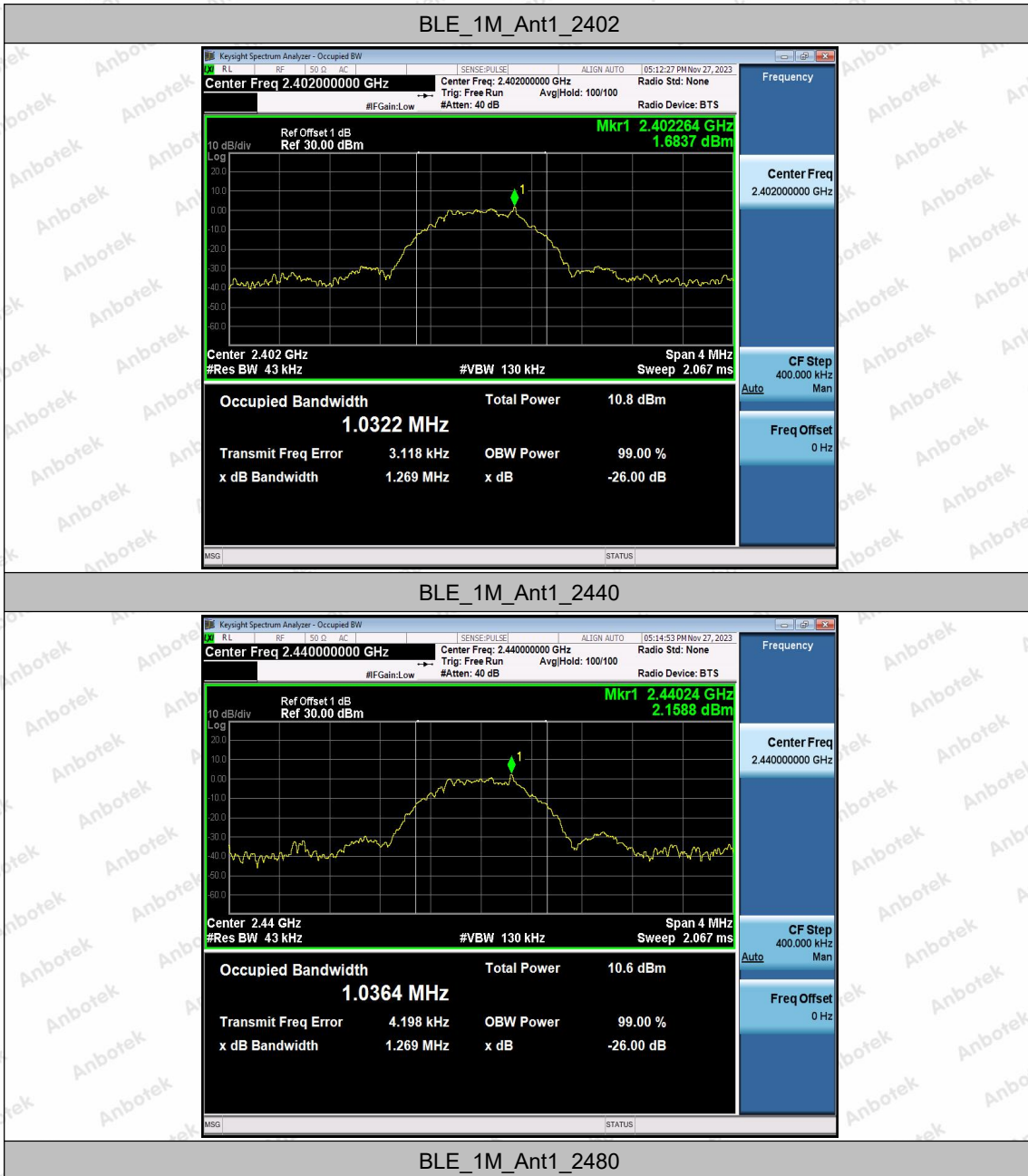
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0322	2401.4870	2402.5192
		2440	1.0364	2439.4860	2440.5224
		2480	1.0411	2479.4825	2480.5236



Test Graphs



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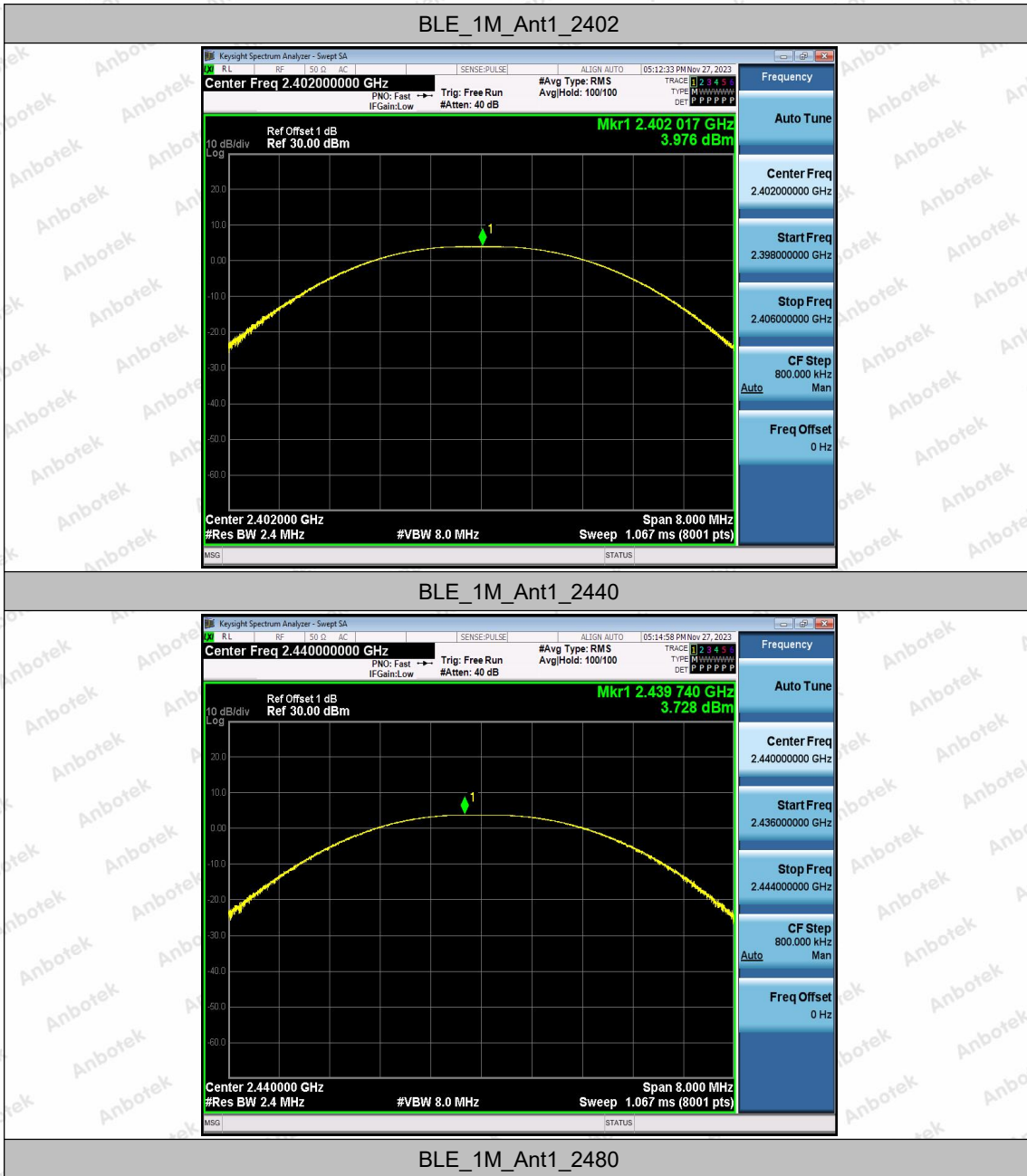
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.98	≤30	PASS
		2440	3.73	≤30	PASS
		2480	3.20	≤30	PASS



Test Graphs Peak

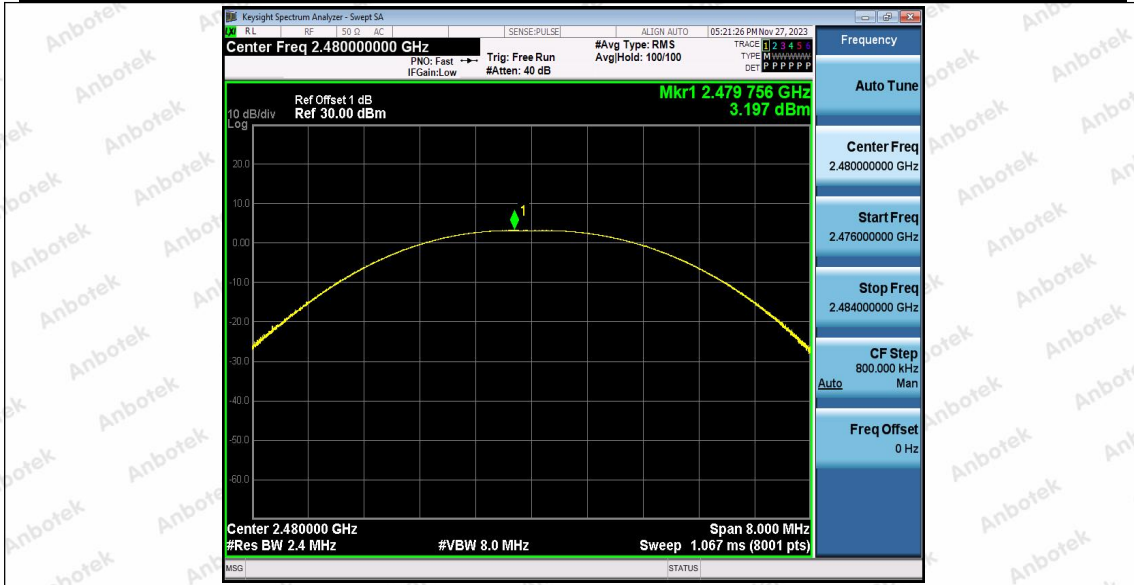


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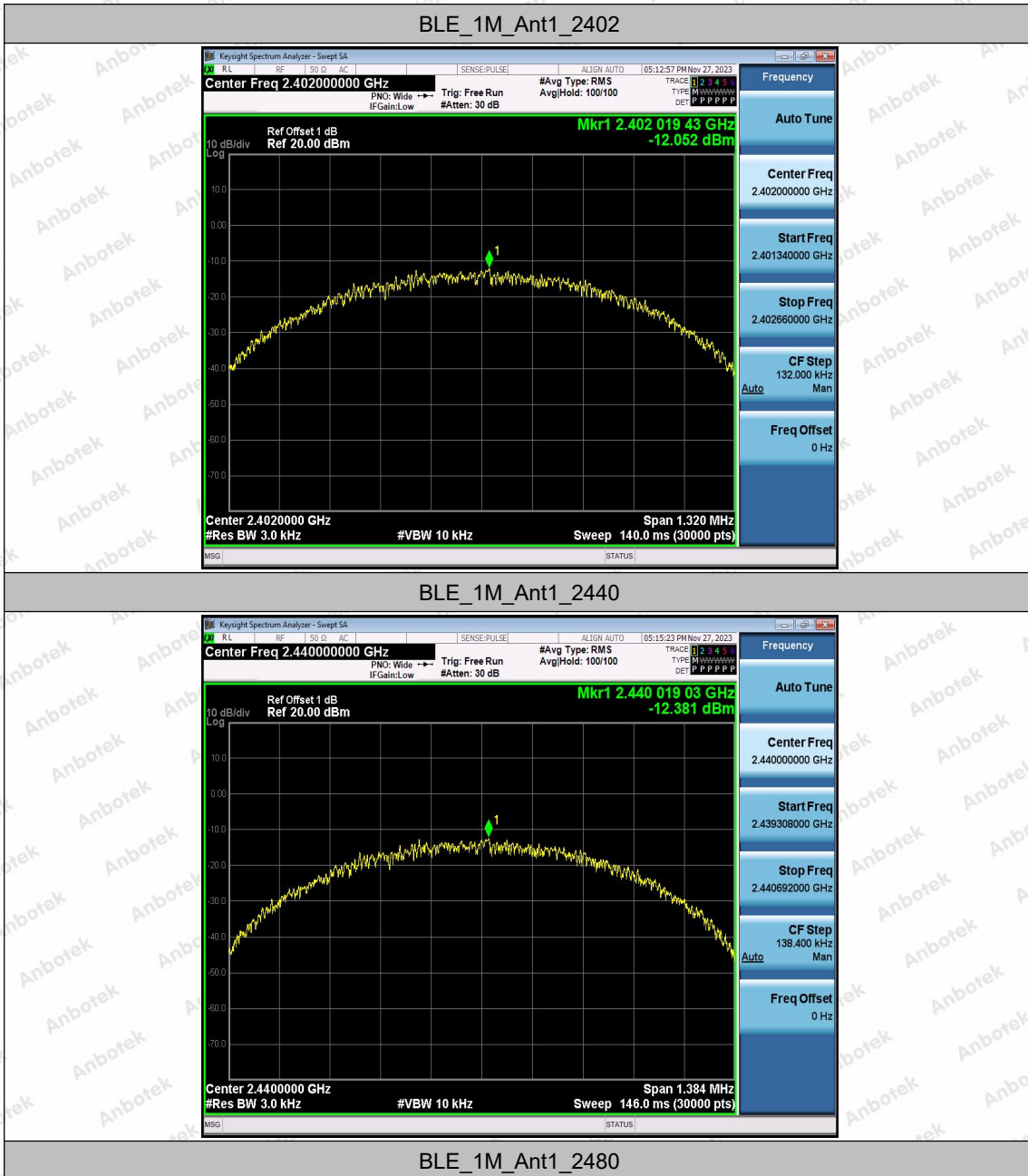
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.05	≤8.00	PASS
		2440	-12.38	≤8.00	PASS
		2480	-12.86	≤8.00	PASS



Test Graphs

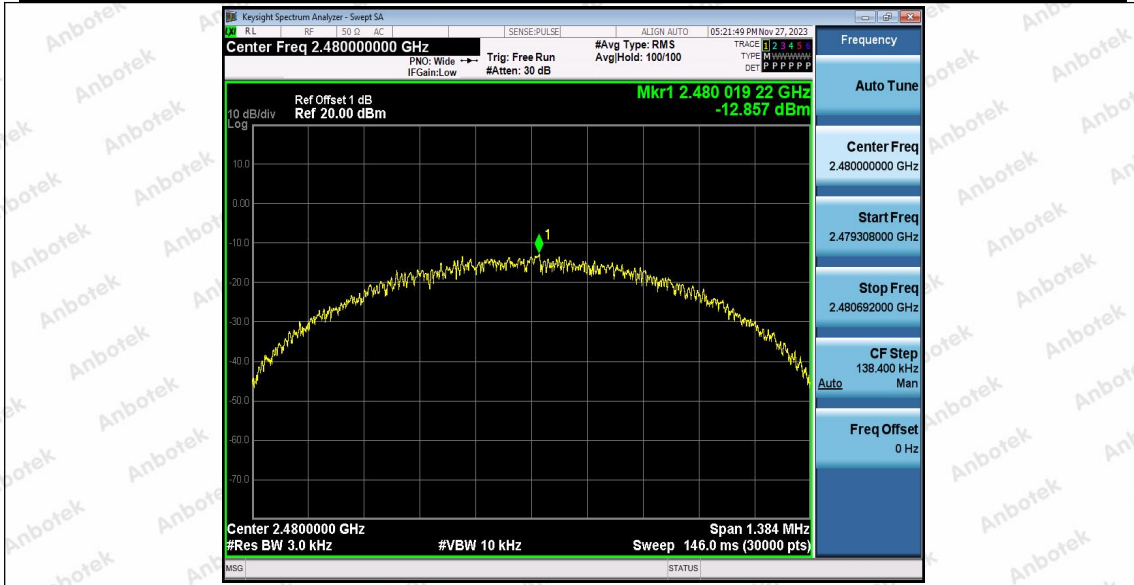


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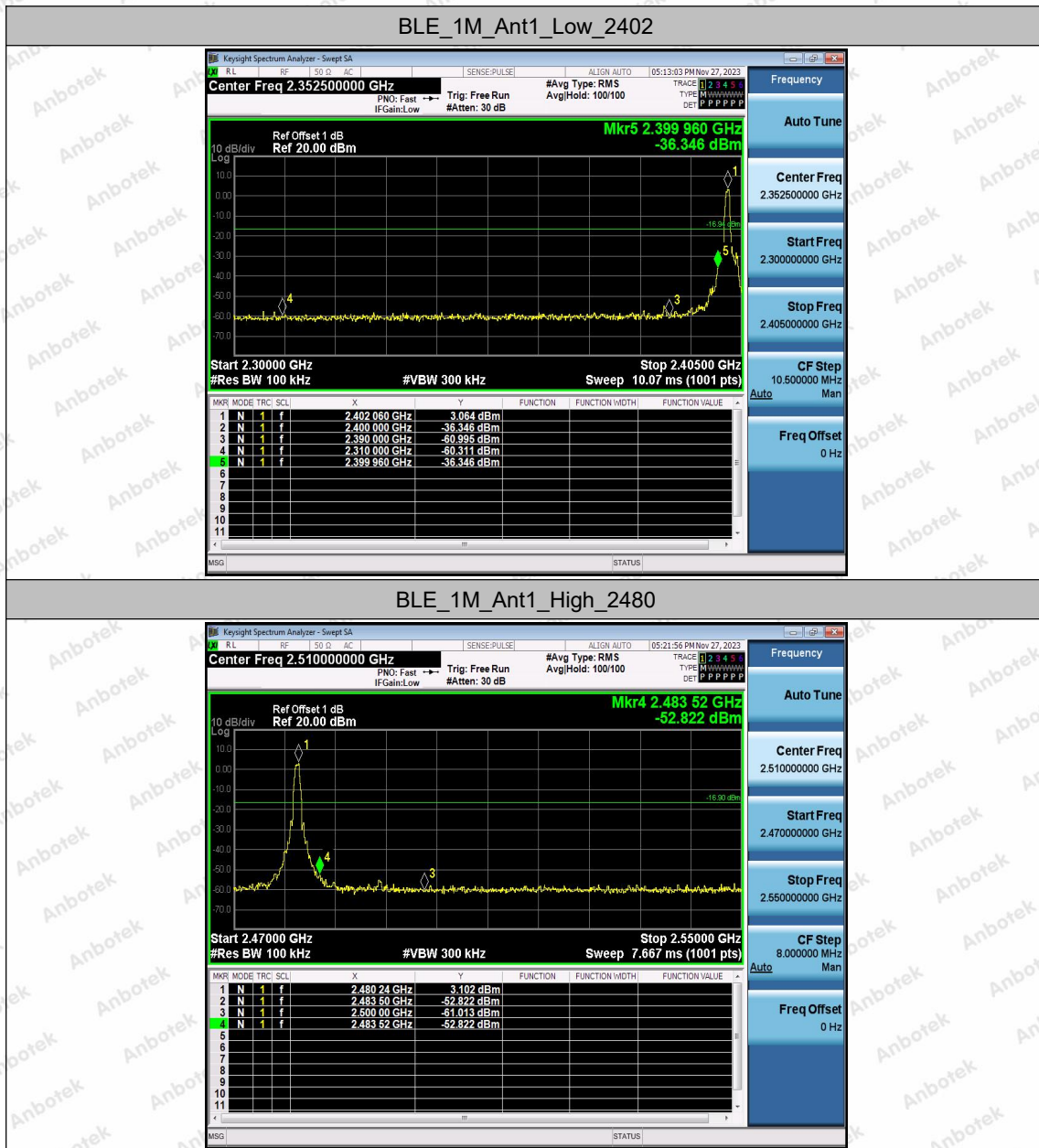


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.06	-36.35	≤-16.94	PASS
		High	2480	3.10	-52.82	≤-16.9	PASS

Test Graphs



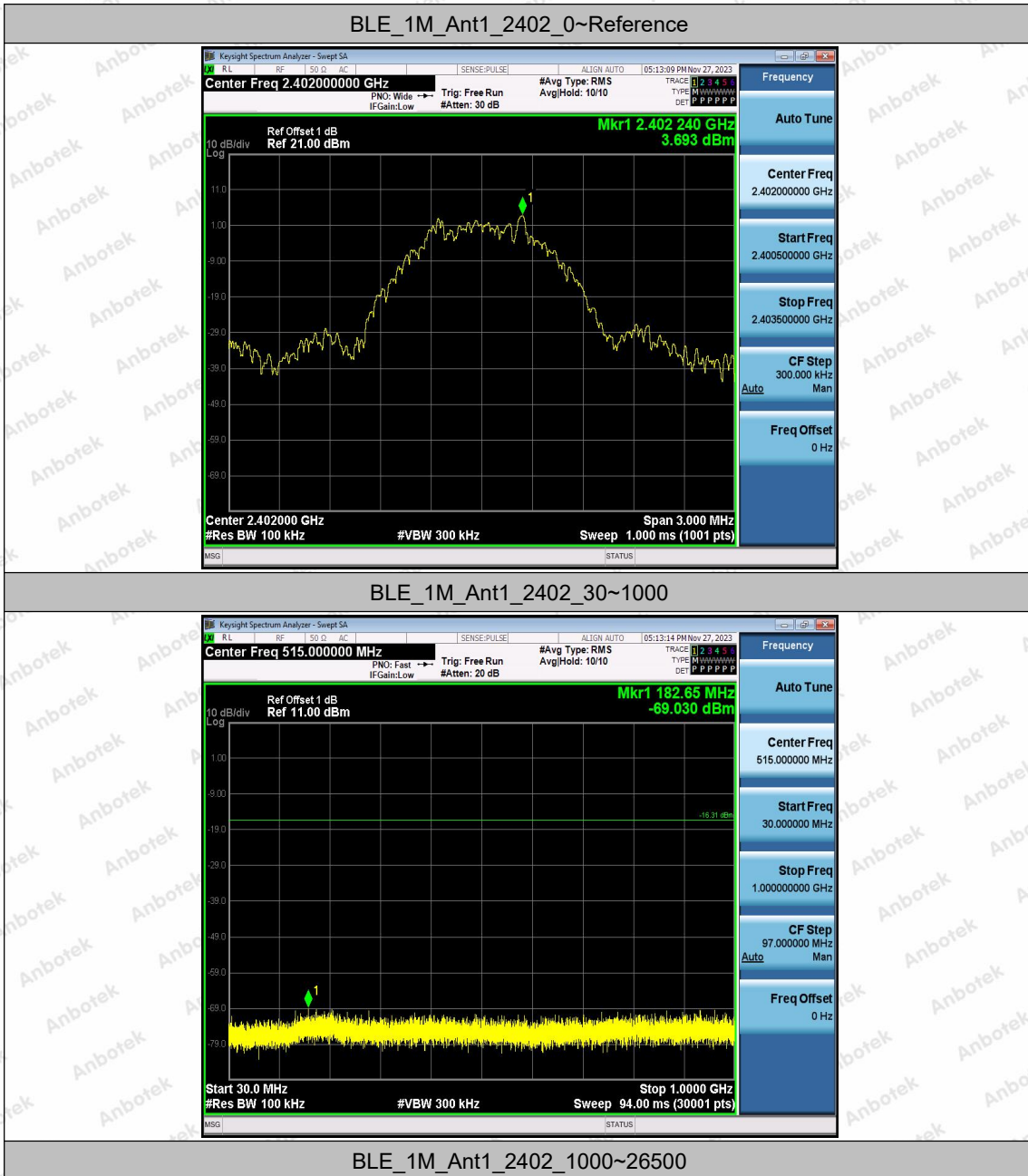
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.69	3.69	---	PASS
			30~1000	3.69	-69.03	≤-16.31	PASS
			1000~26500	3.69	-53.38	≤-16.31	PASS
		2440	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-68.72	≤-17.55	PASS
			1000~26500	2.45	-53.26	≤-17.55	PASS
		2480	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-68.50	≤-18.16	PASS
			1000~26500	1.84	-53.40	≤-18.16	PASS



Test Graphs

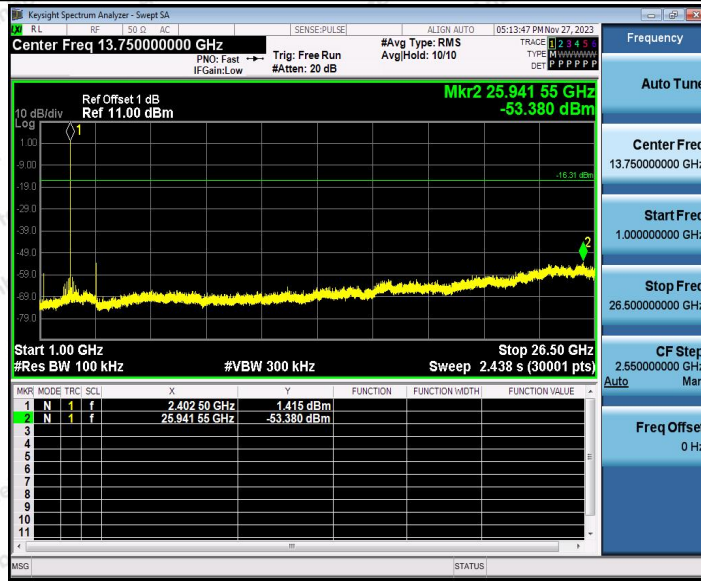


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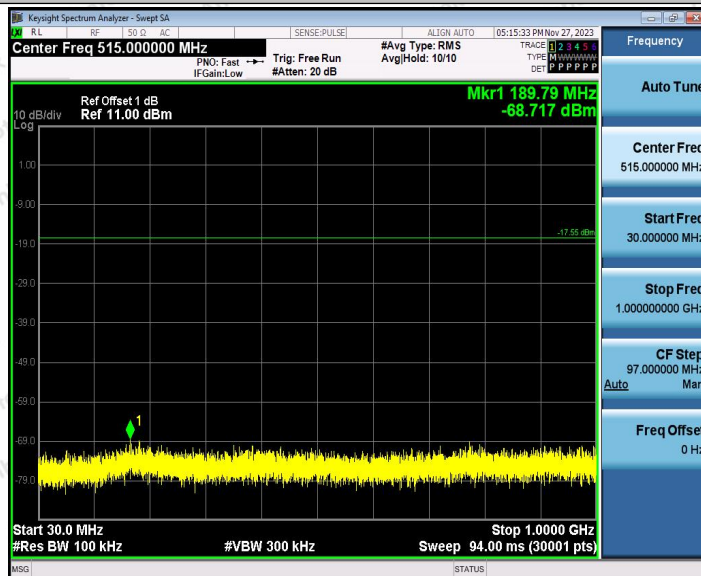




BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



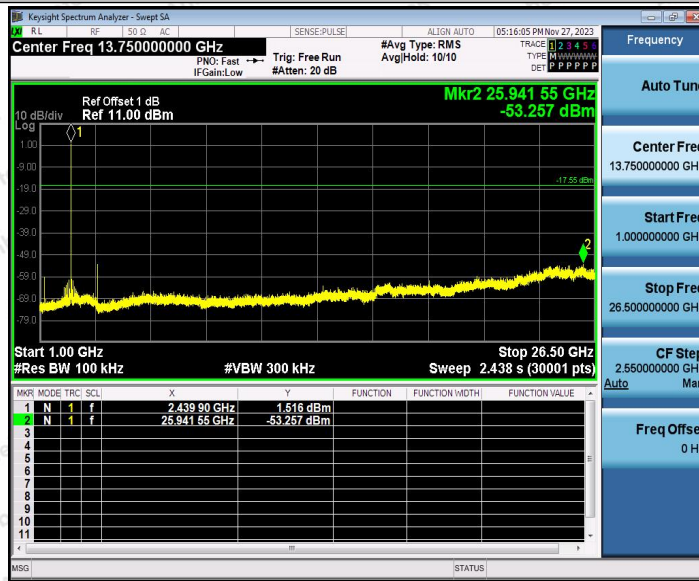
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



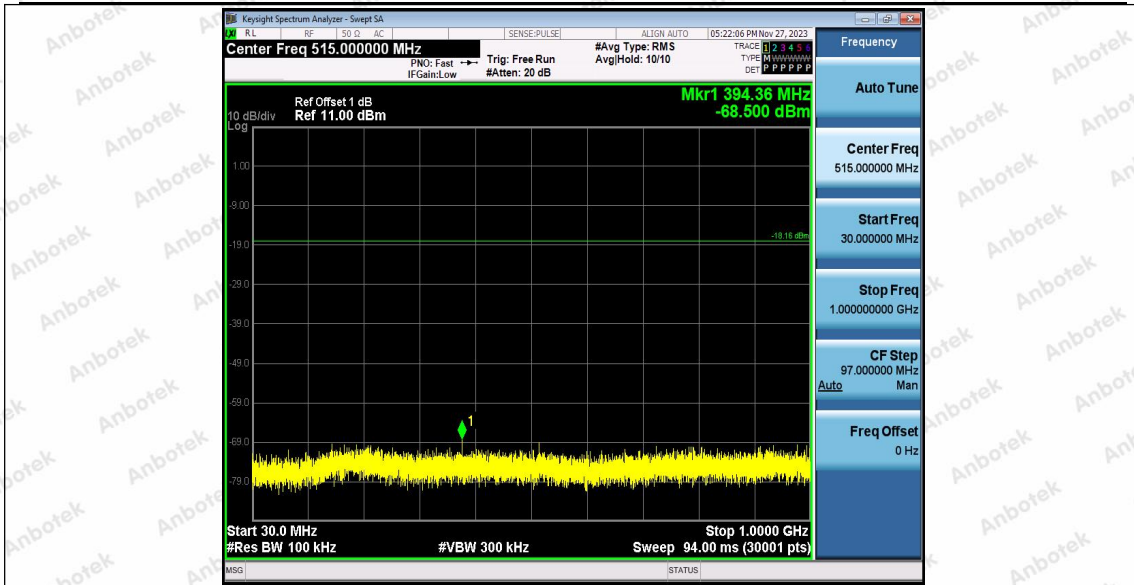
BLE_1M_Ant1_2480_30~1000

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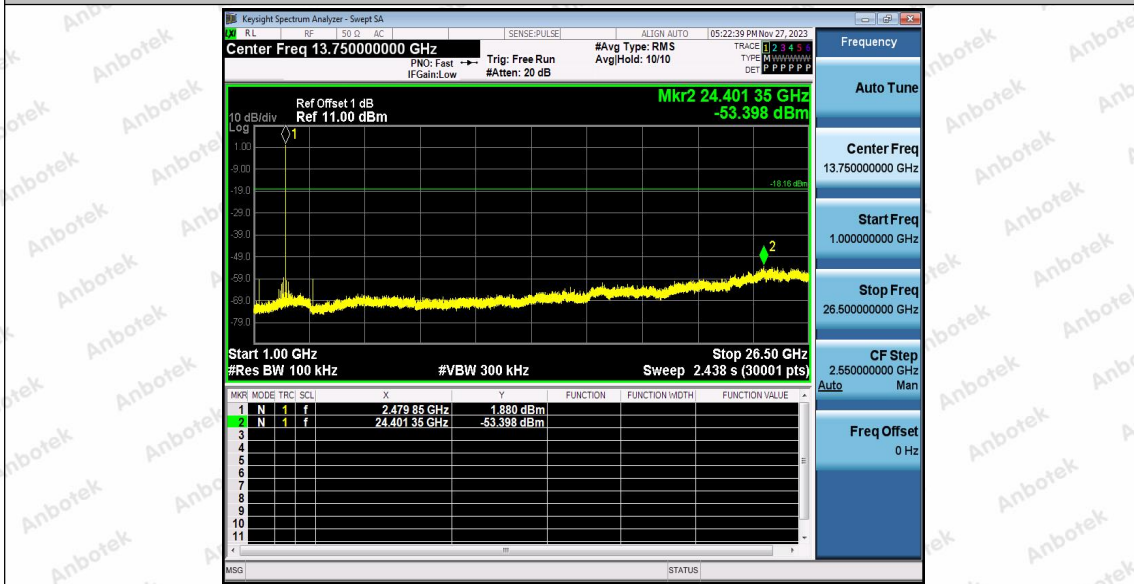
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BLE_1M_Ant1_2480_1000~26500



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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	2.12	2.50	84.80	0.72
		2440	2.13	2.50	85.20	0.70
		2480	2.13	2.50	85.20	0.70

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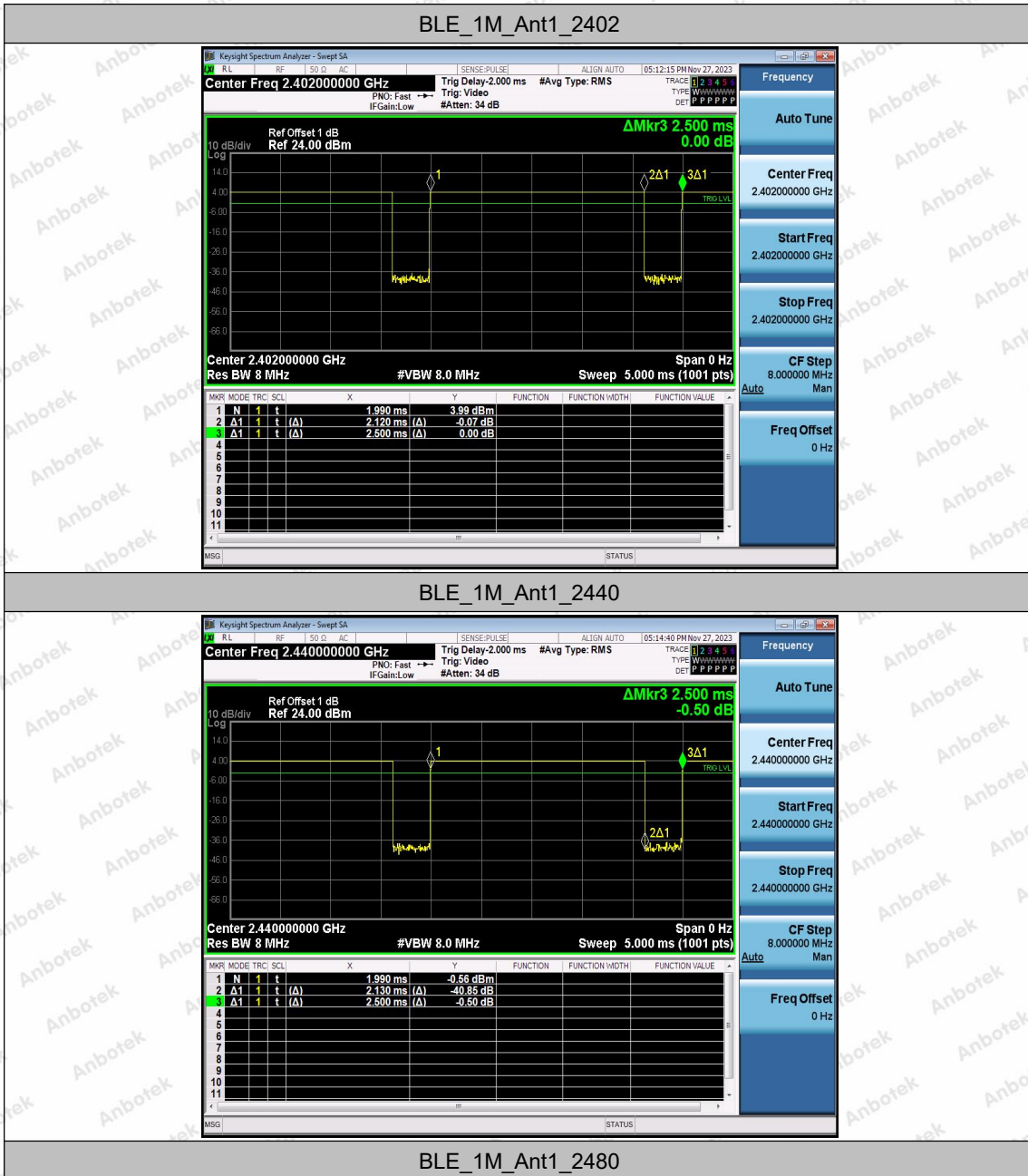
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Test Graphs

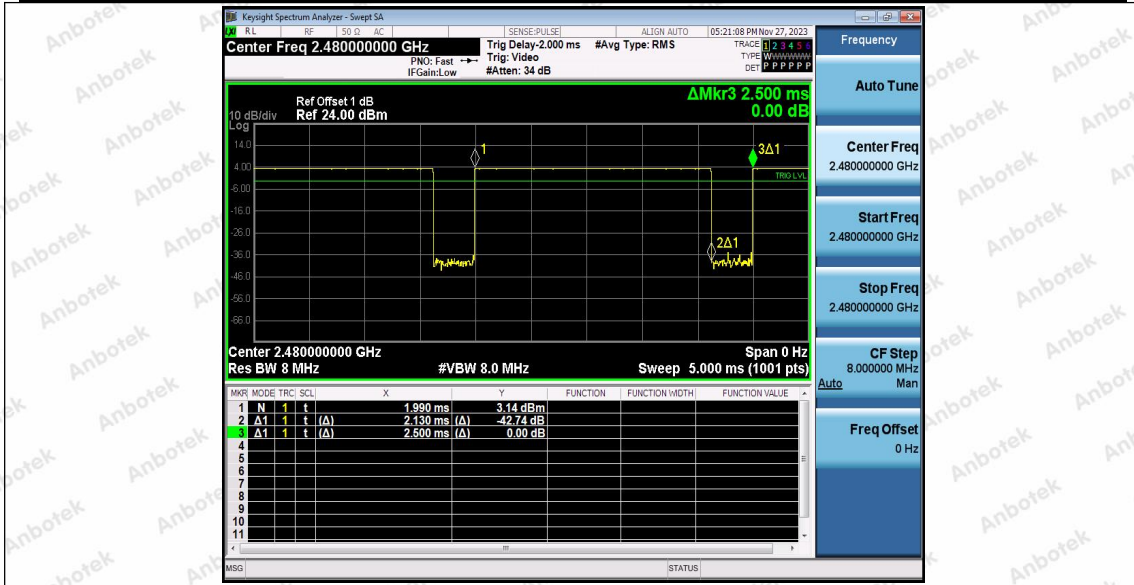


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