

Appendix Test Data

Report No.:	18220WC30271101	Test Sample No.:	1-2-2
Start Test Date:	2023.12.24	Finish Test Date:	2023.12.25
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	41%
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	0.676	2401.684	2402.360	0.5	PASS
		2440	0.676	2439.688	2440.364	0.5	PASS
		2480	0.724	2479.660	2480.384	0.5	PASS

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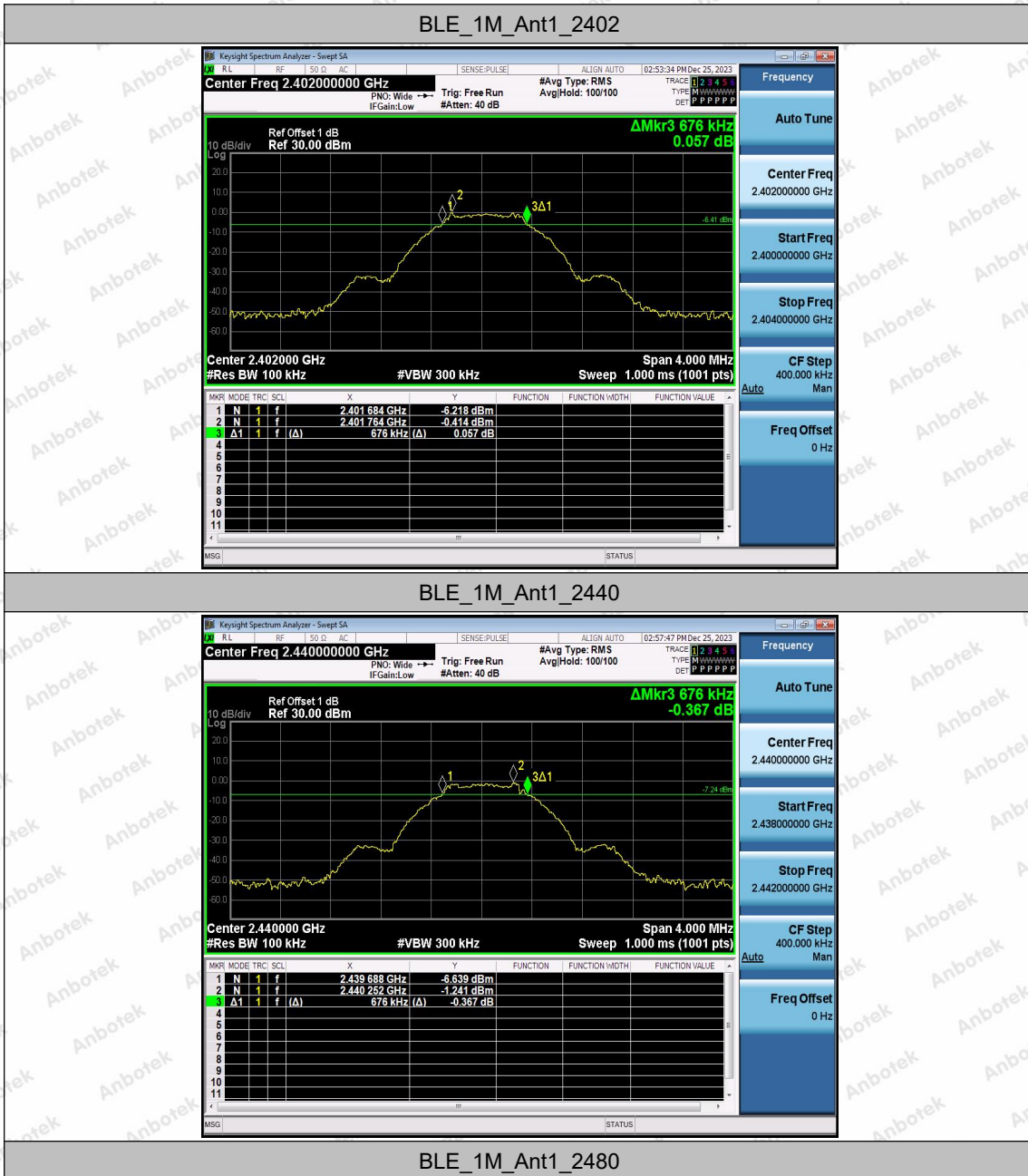
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Test Graphs

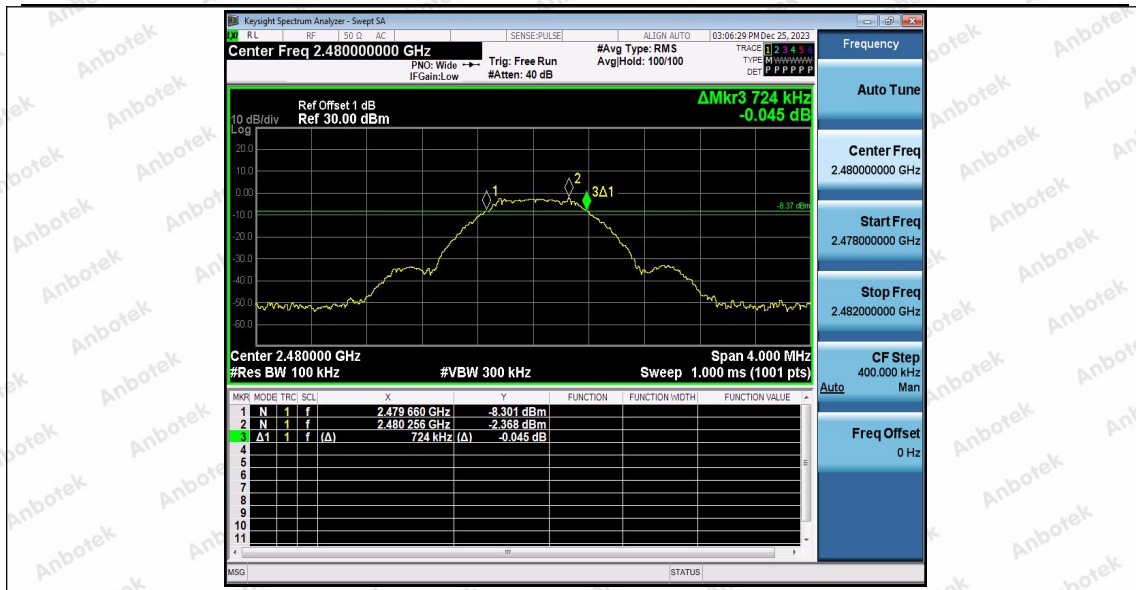


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0236	2401.5076	2402.5312
		2440	1.0282	2439.5094	2440.5376
		2480	1.0206	2479.5085	2480.5291

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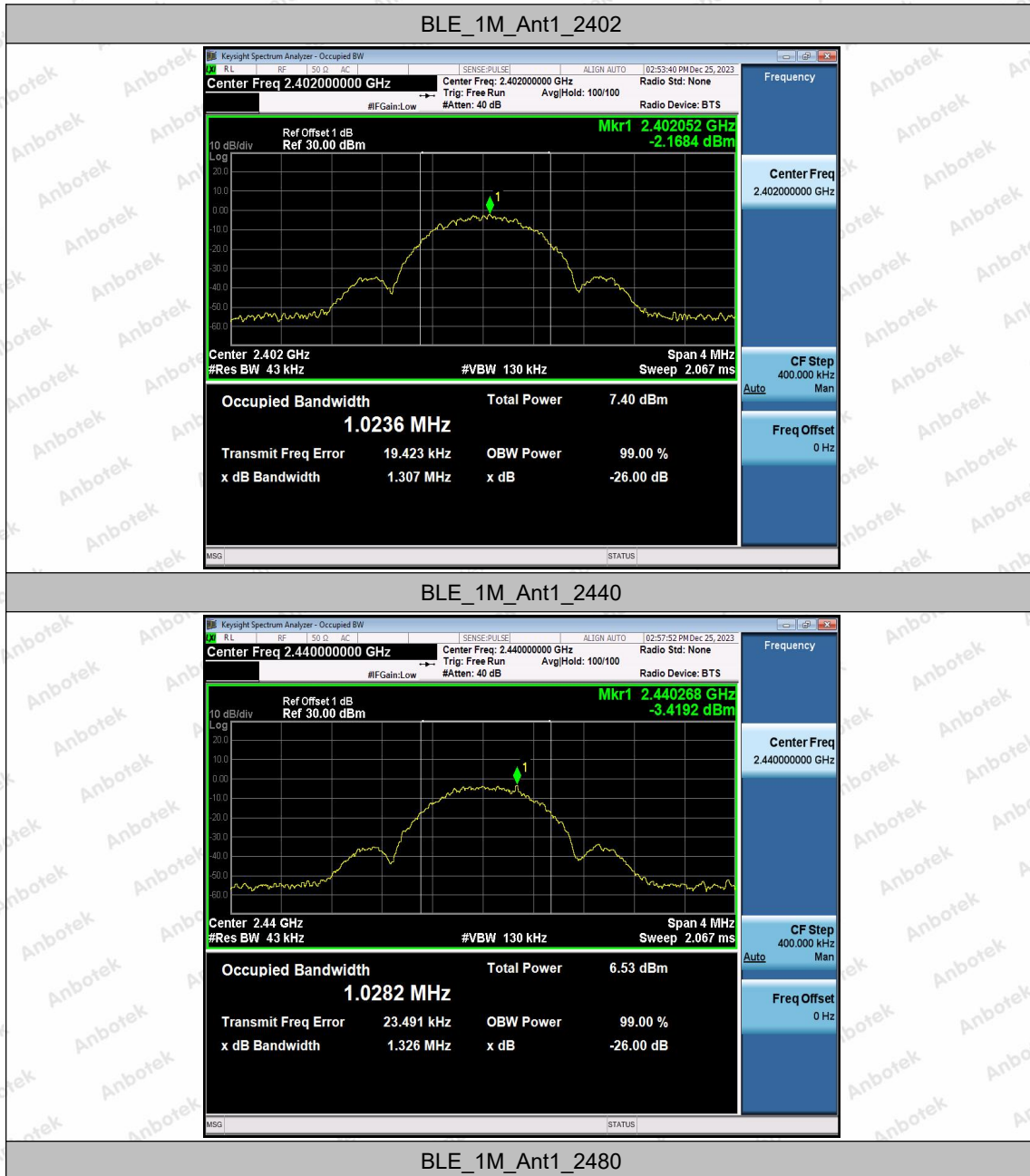
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Test Graphs



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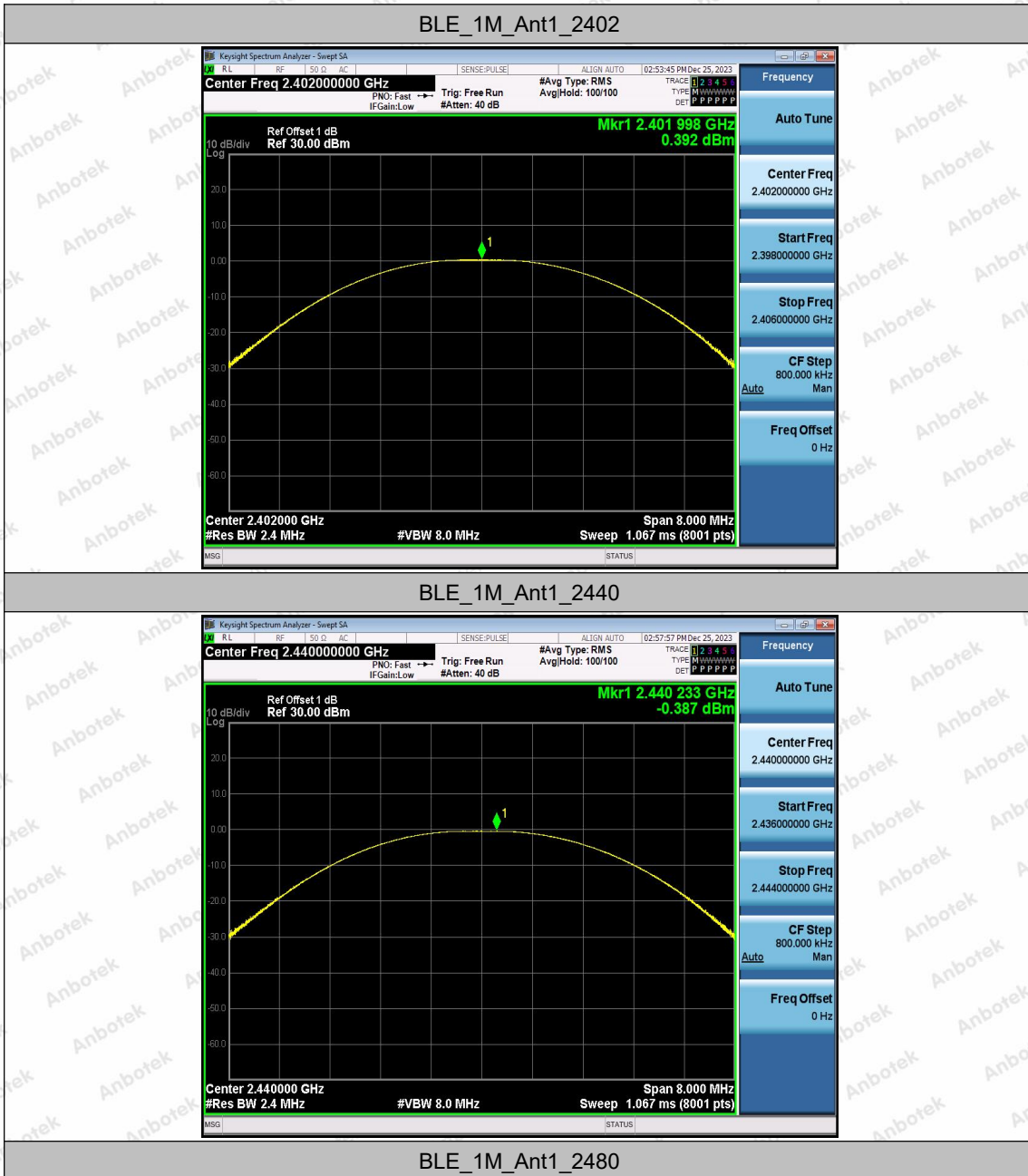
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.39	≤30	PASS
		2440	-0.39	≤30	PASS
		2480	-1.31	≤30	PASS



Test Graphs Peak

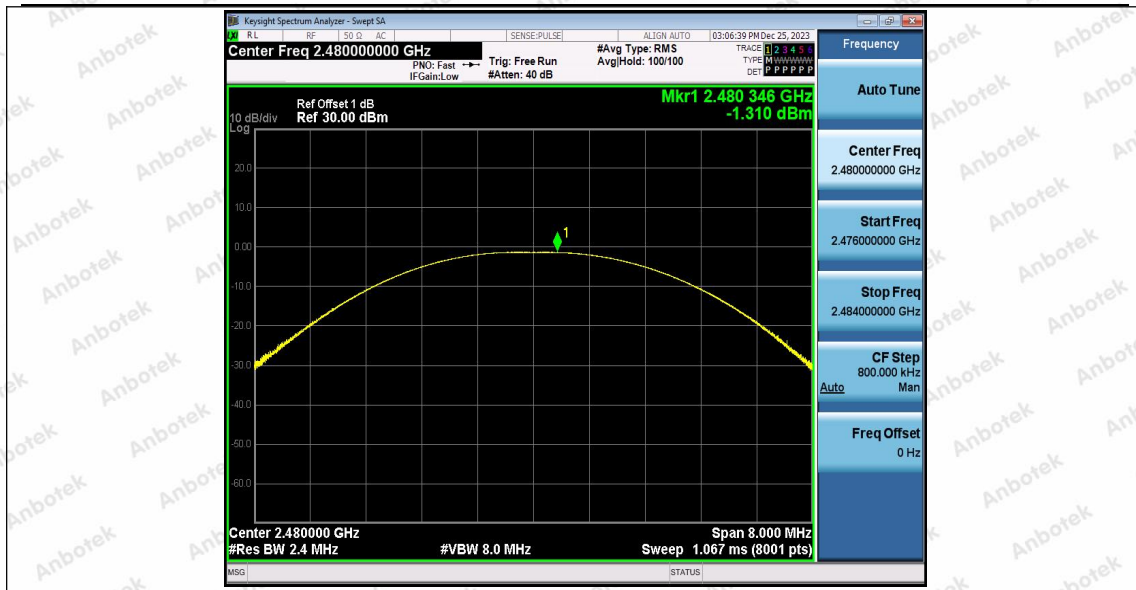


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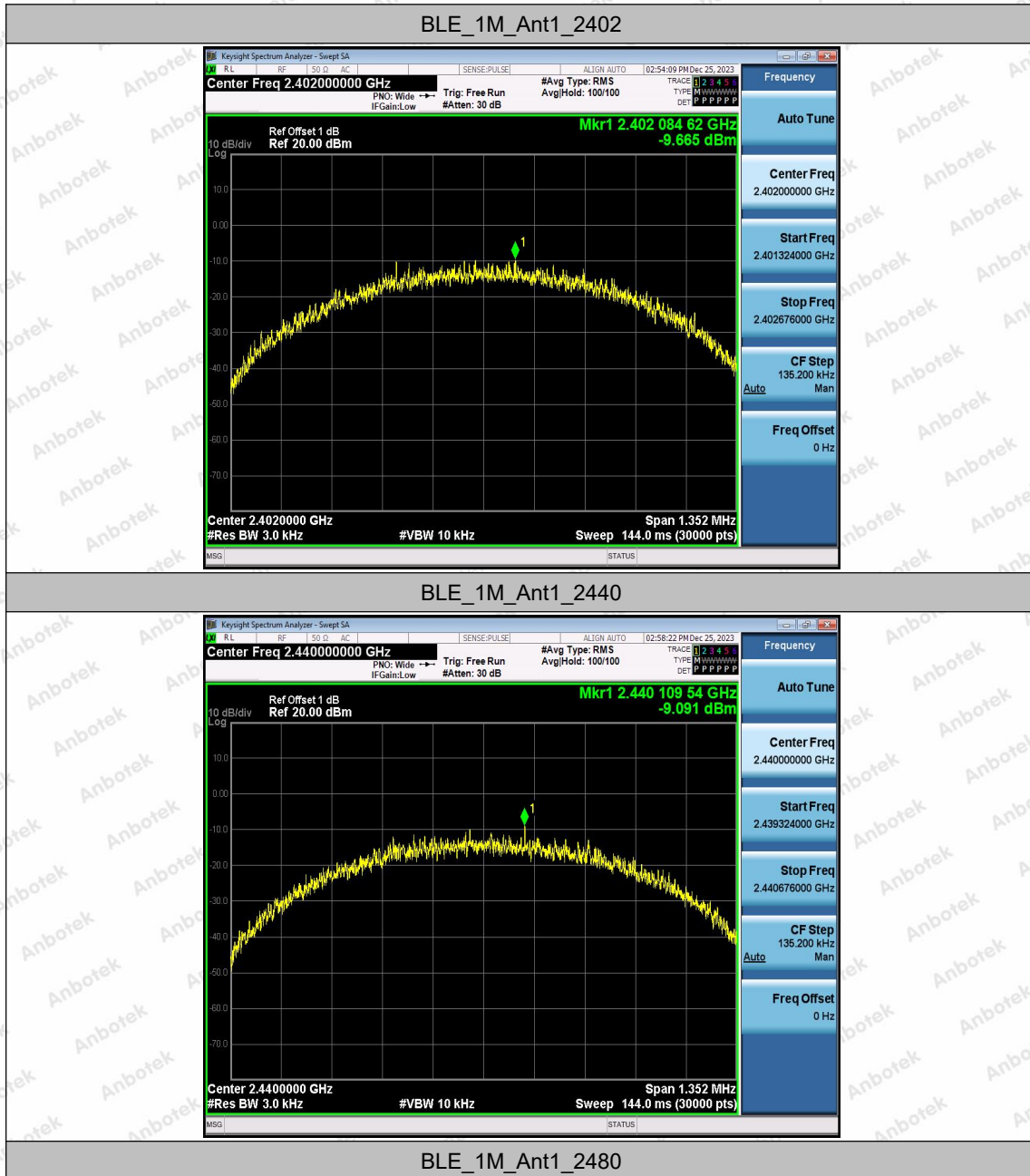
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.67	≤8.00	PASS
		2440	-9.09	≤8.00	PASS
		2480	-10.55	≤8.00	PASS



Test Graphs



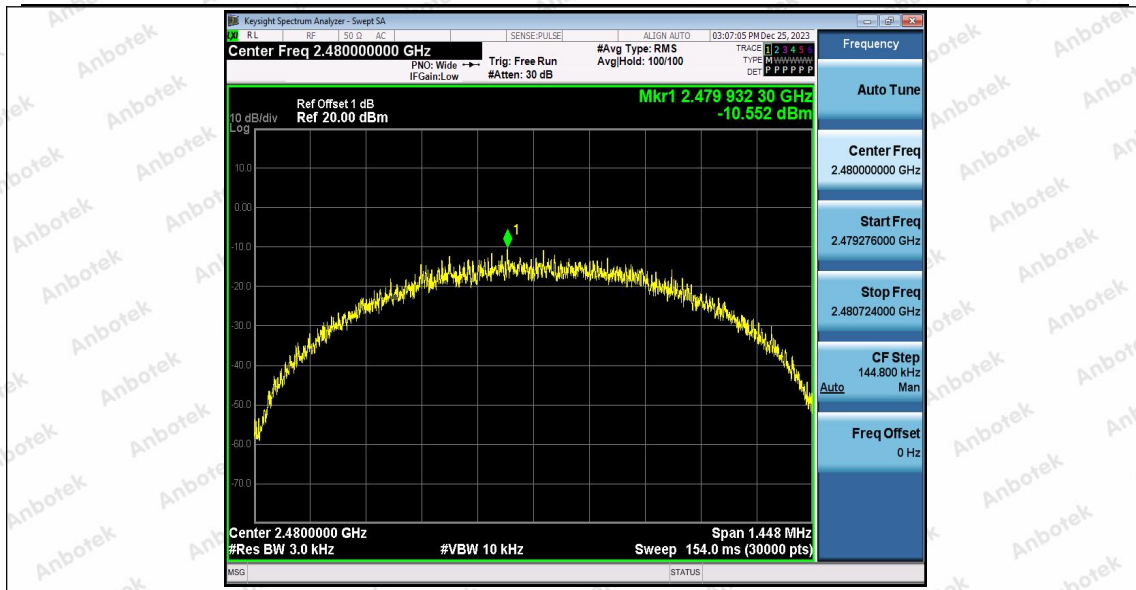
BLE_1M_Ant1_2480

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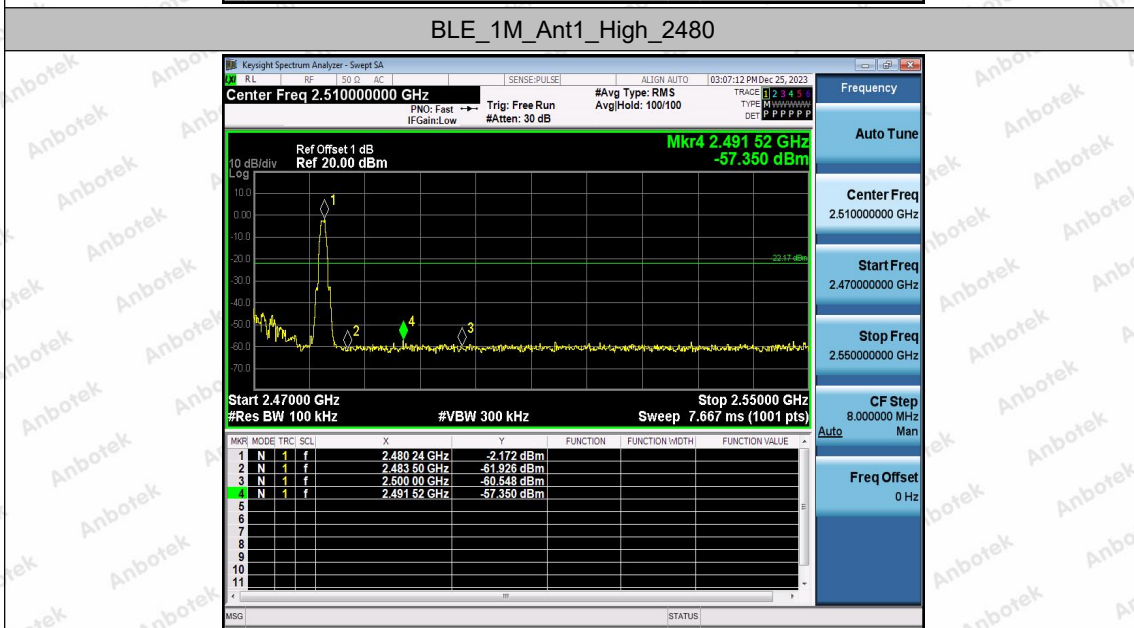
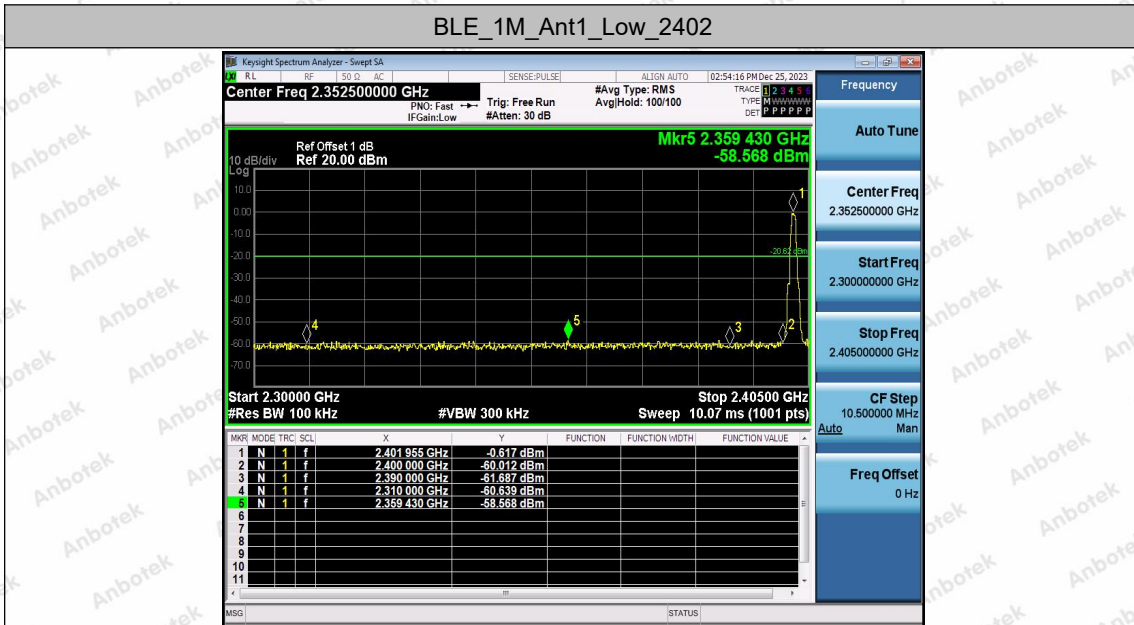
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.62	-58.57	≤-20.62	PASS
		High	2480	-2.17	-57.35	≤-22.17	PASS



Test Graphs



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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	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-68.26	≤-20.29	PASS
			1000~26500	-0.29	-35.82	≤-20.29	PASS
		2440	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-67.53	≤-21.92	PASS
			1000~26500	-1.92	-34.04	≤-21.92	PASS
		2480	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-68.28	≤-22.37	PASS
			1000~26500	-2.37	-34	≤-22.37	PASS

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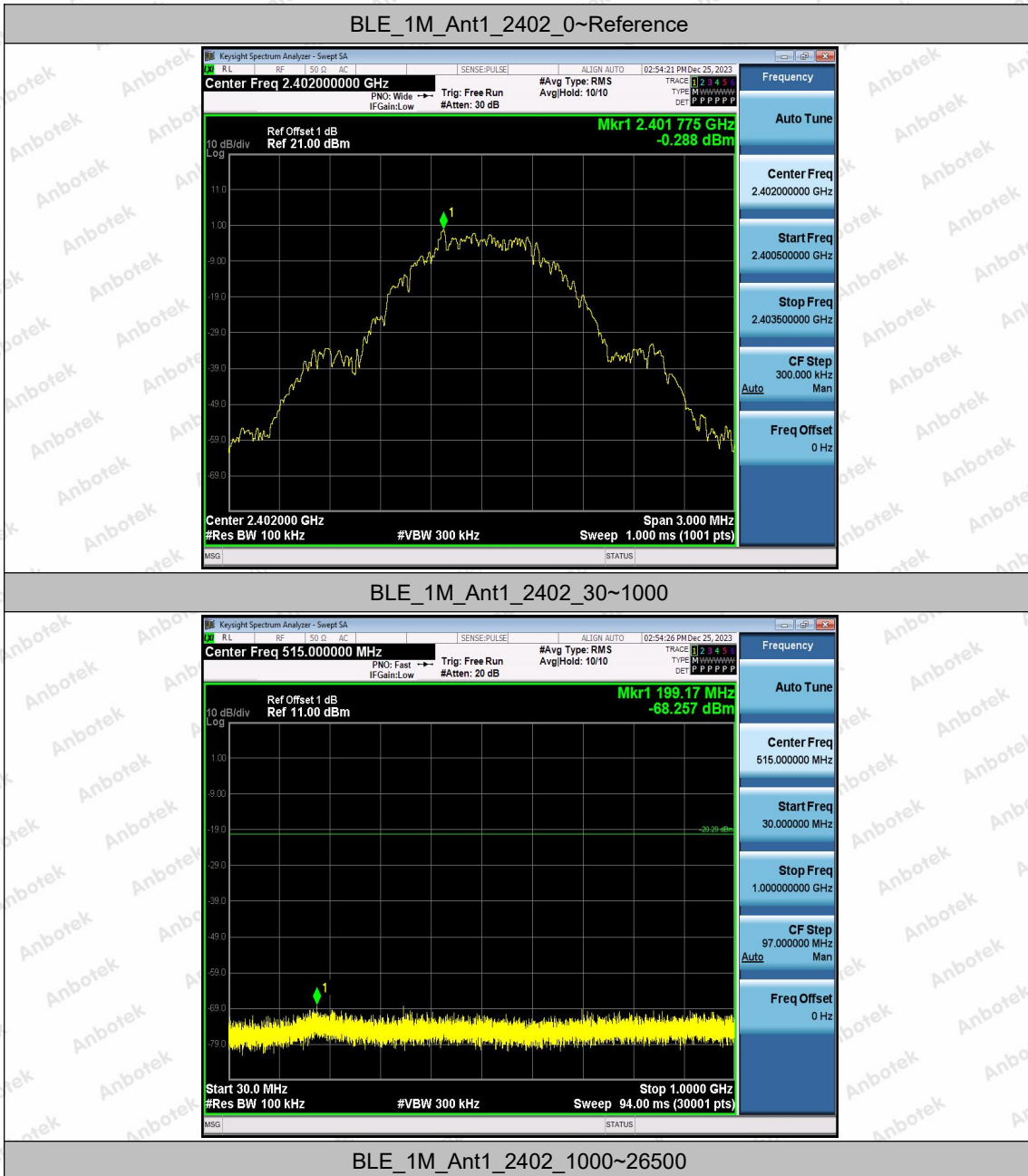
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Test Graphs

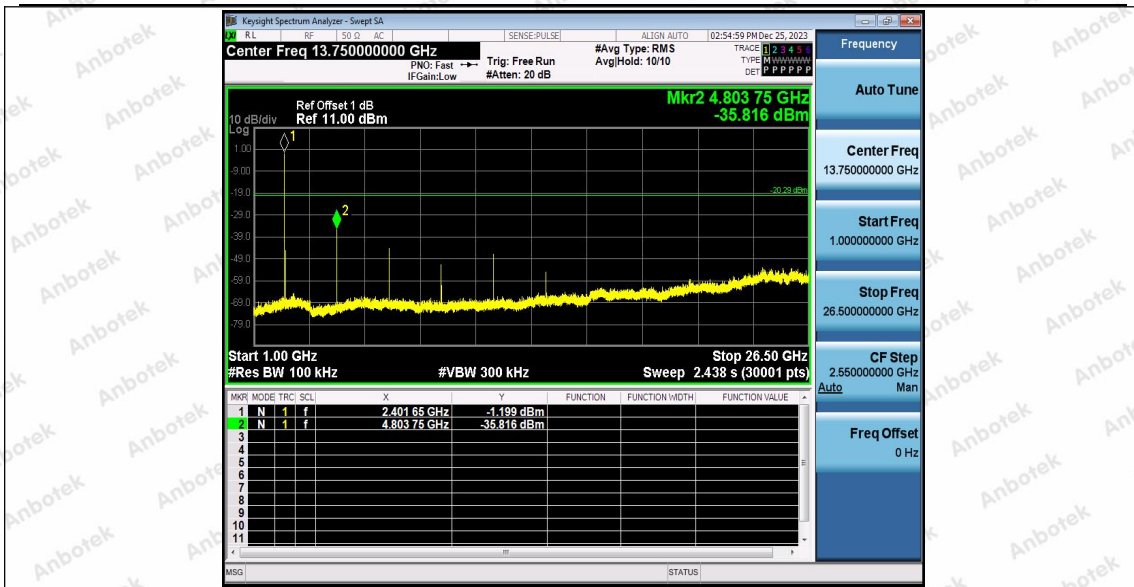


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BLE_1M_Ant1_2440_0~Reference



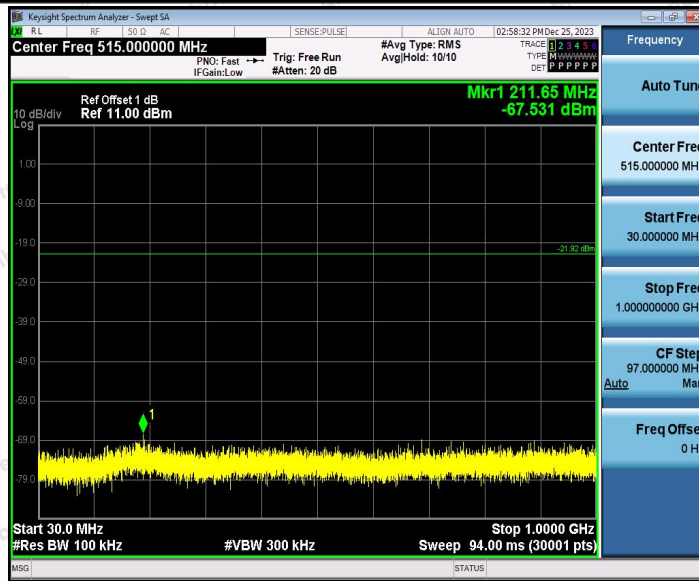
BLE_1M_Ant1_2440_30~1000

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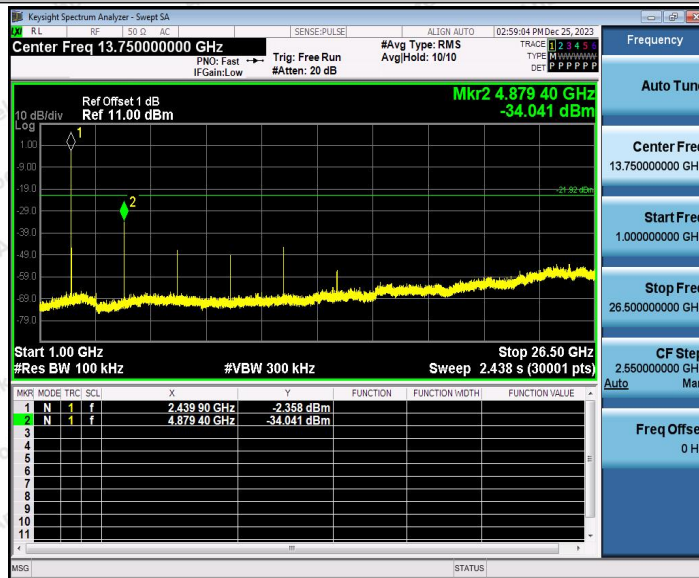
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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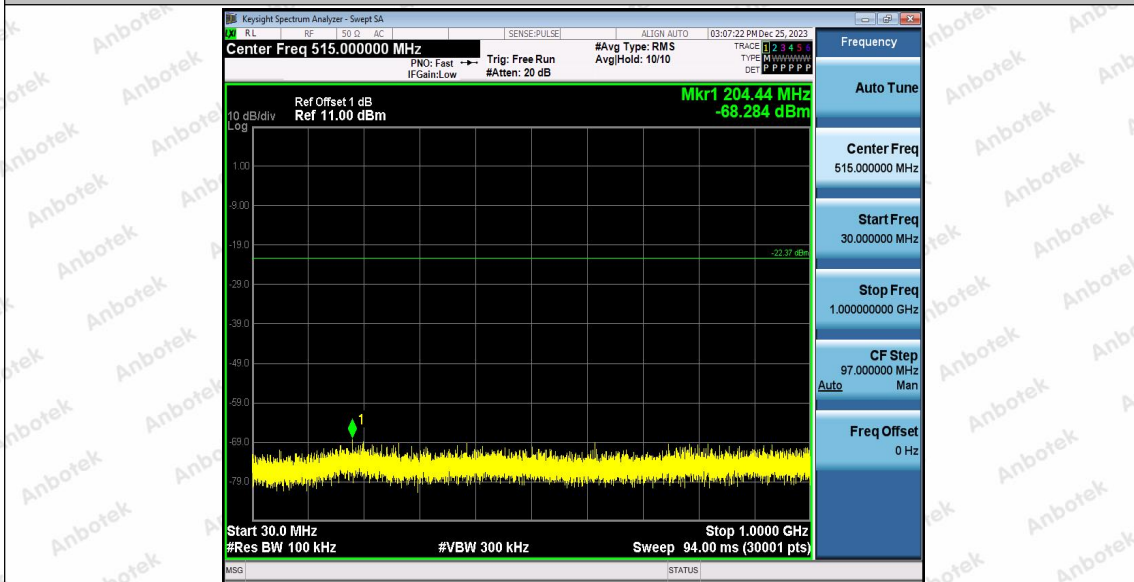
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BLE_1M_Ant1_2480_30~1000



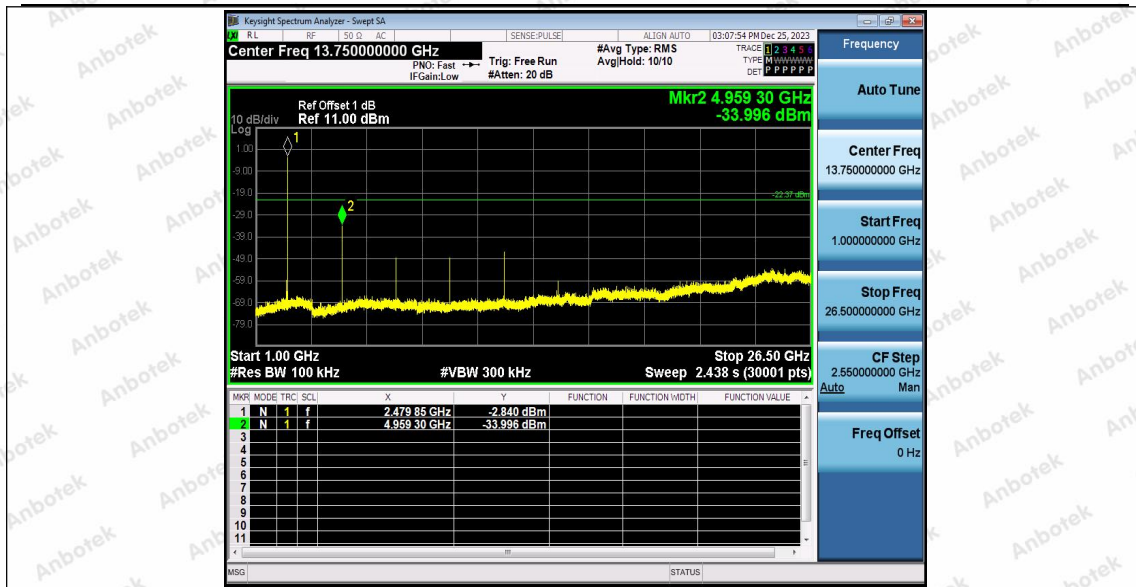
BLE_1M_Ant1_2480_1000~26500

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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	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00

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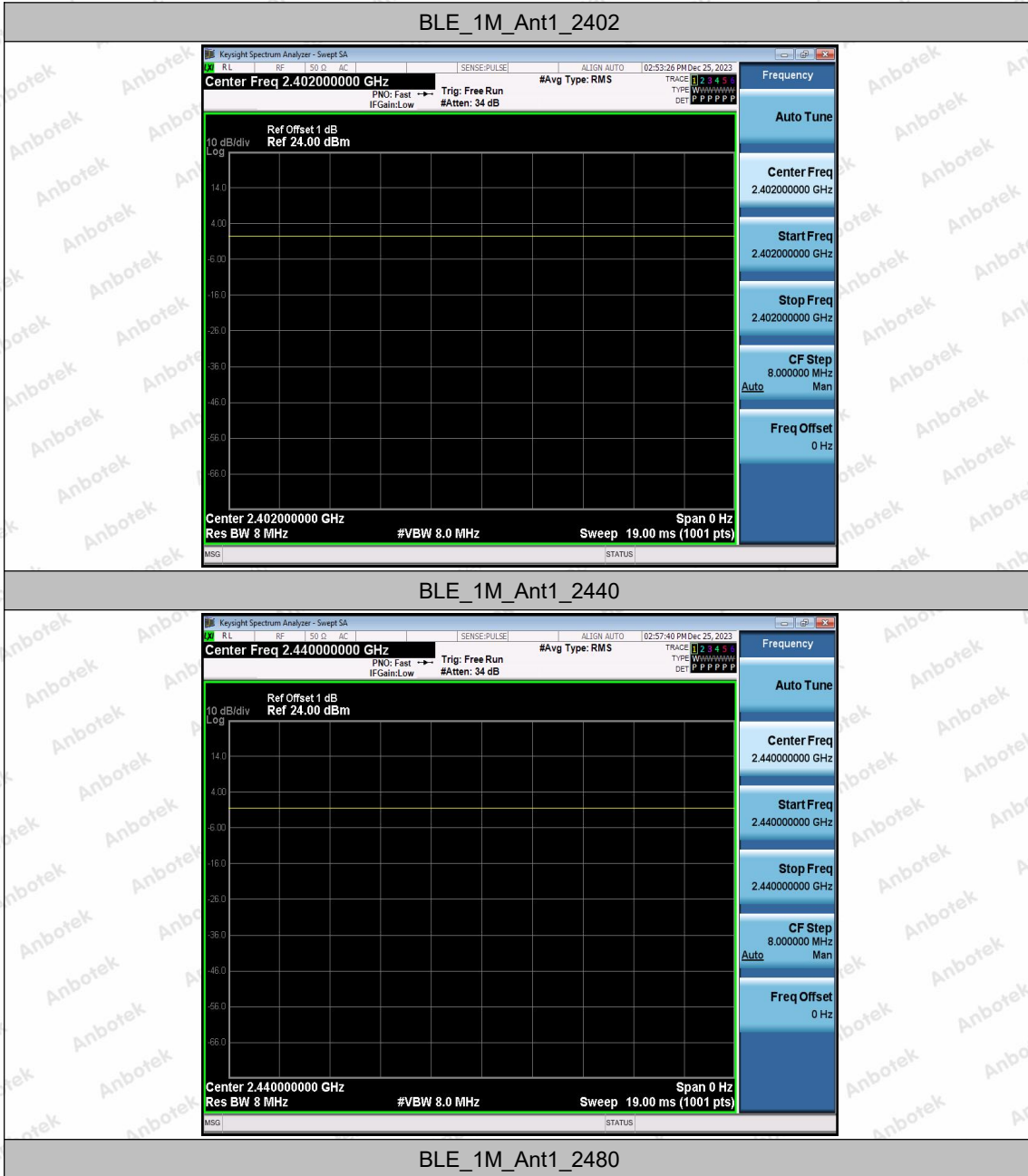
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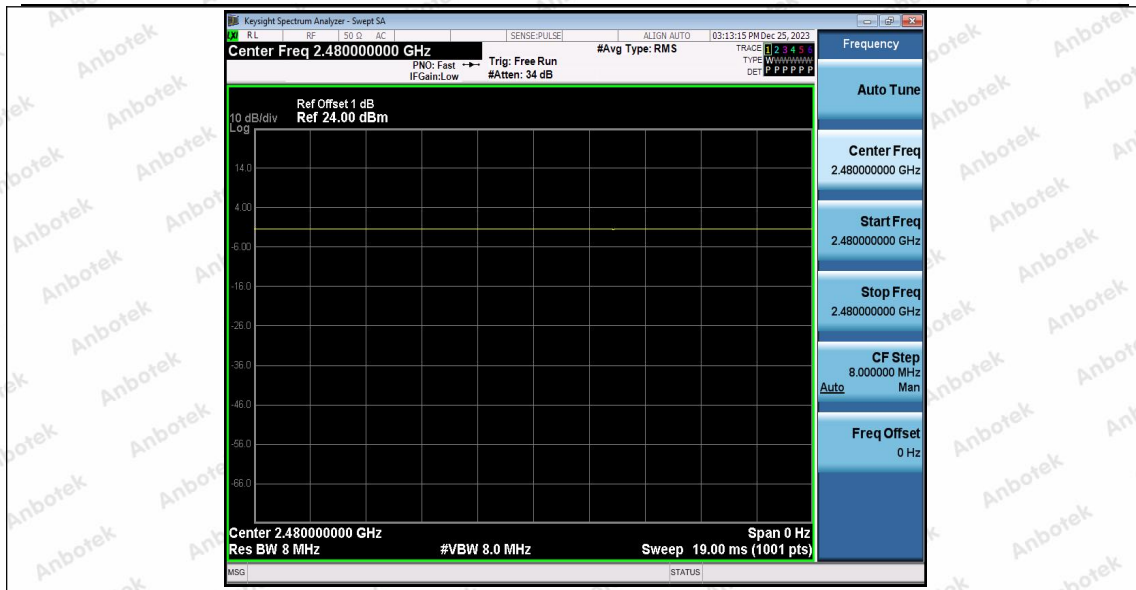


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