

Appendix Test Data

Report No.:	18220WC20195701	Test Sample No.:	1-2-2
Start Test Date:	2022.8.23	Finish Test Date:	2022.8.31
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.684	2401.652	2402.336	0.5	PASS
		2440	0.696	2439.652	2440.348	0.5	PASS
		2480	0.704	2479.640	2480.344	0.5	PASS

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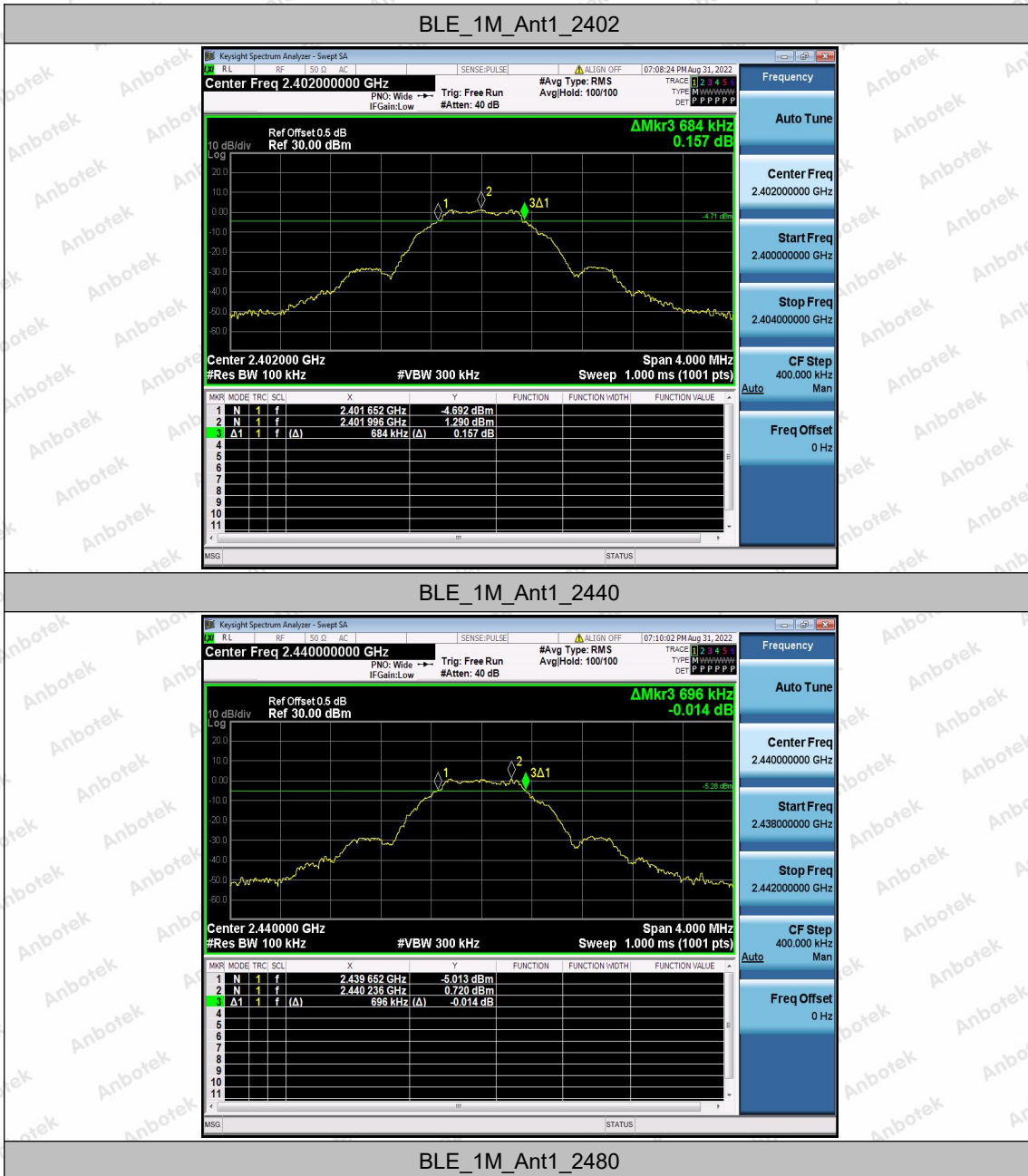
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Test Graphs

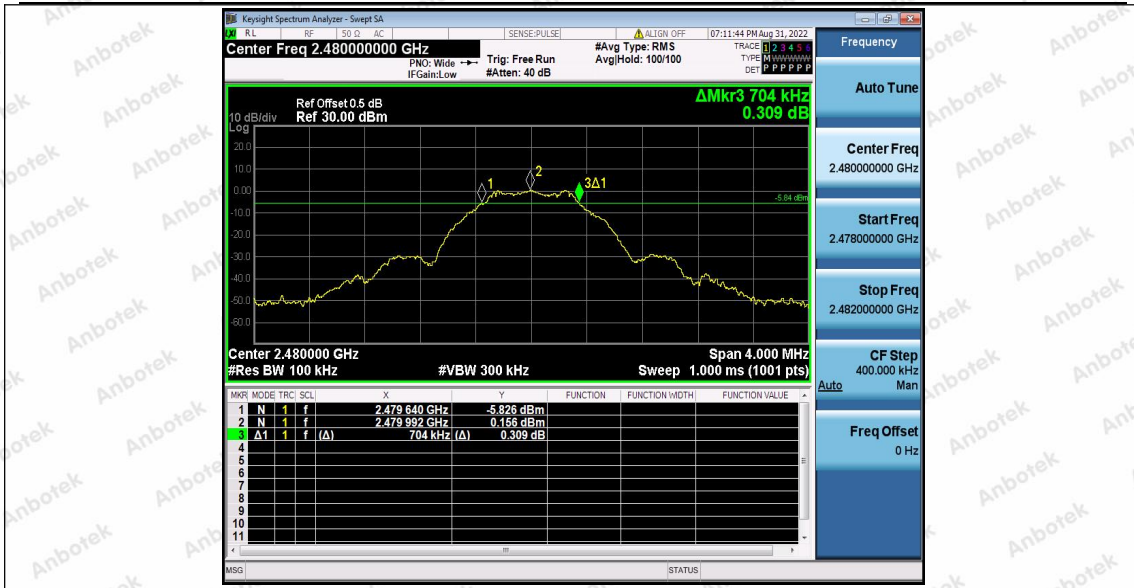


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0246	2401.4937	2402.5183
		2440	1.0250	2439.4956	2440.5206
		2480	1.0276	2479.4957	2480.5233

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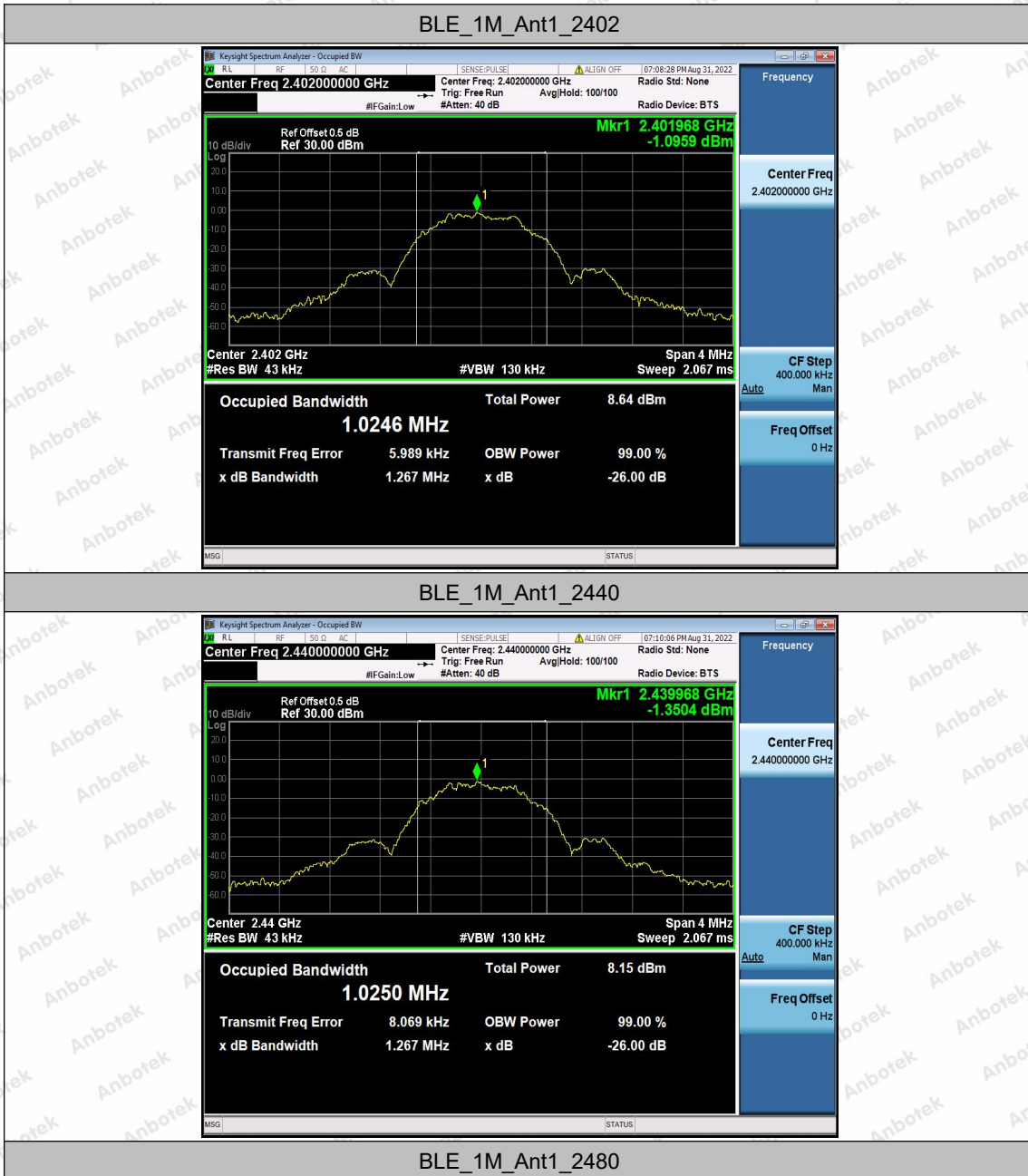
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Test Graphs



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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	2.2	≤30	PASS
		2440	1.82	≤30	PASS
		2480	1.08	≤30	PASS

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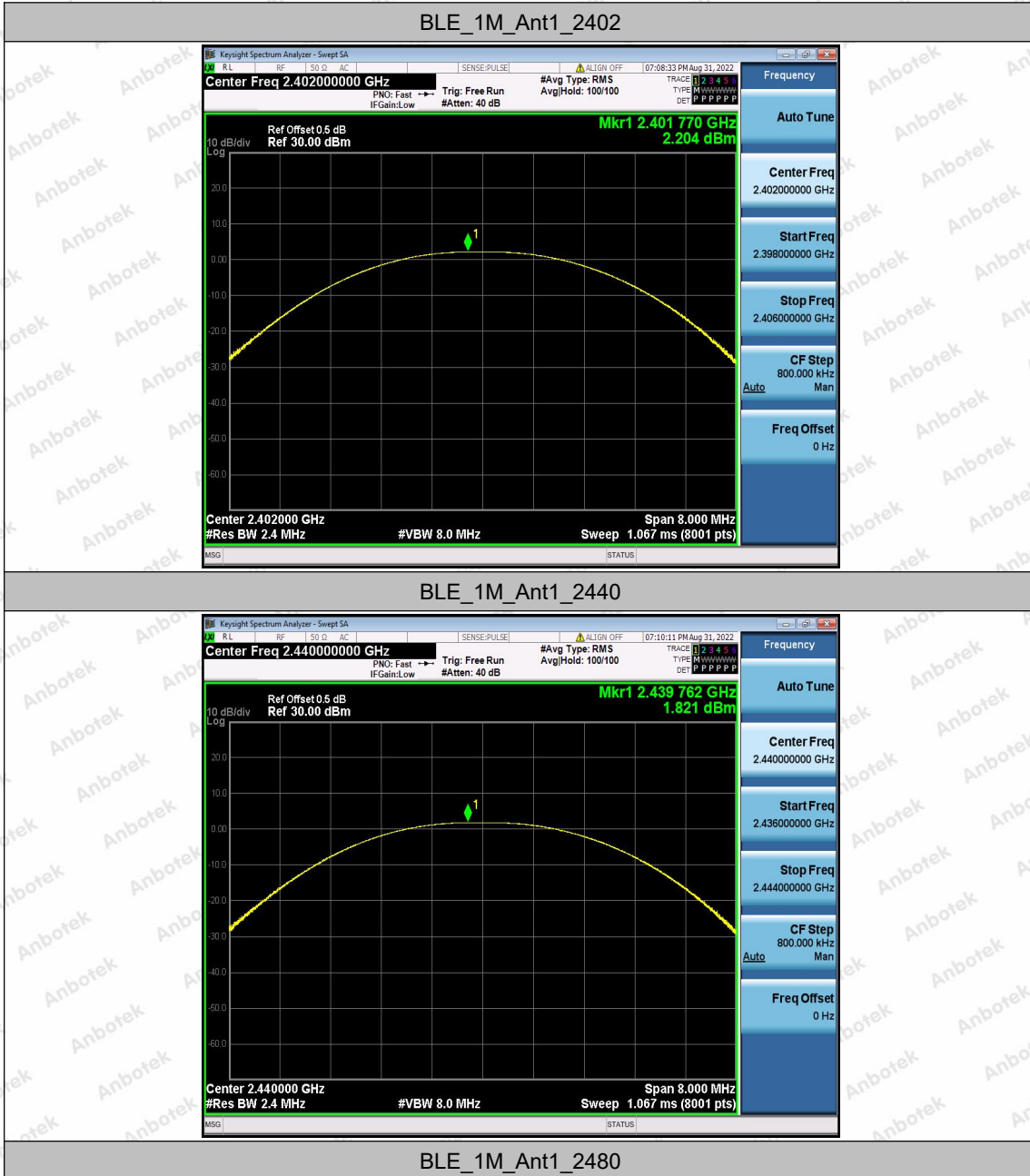
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Test Graphs Peak



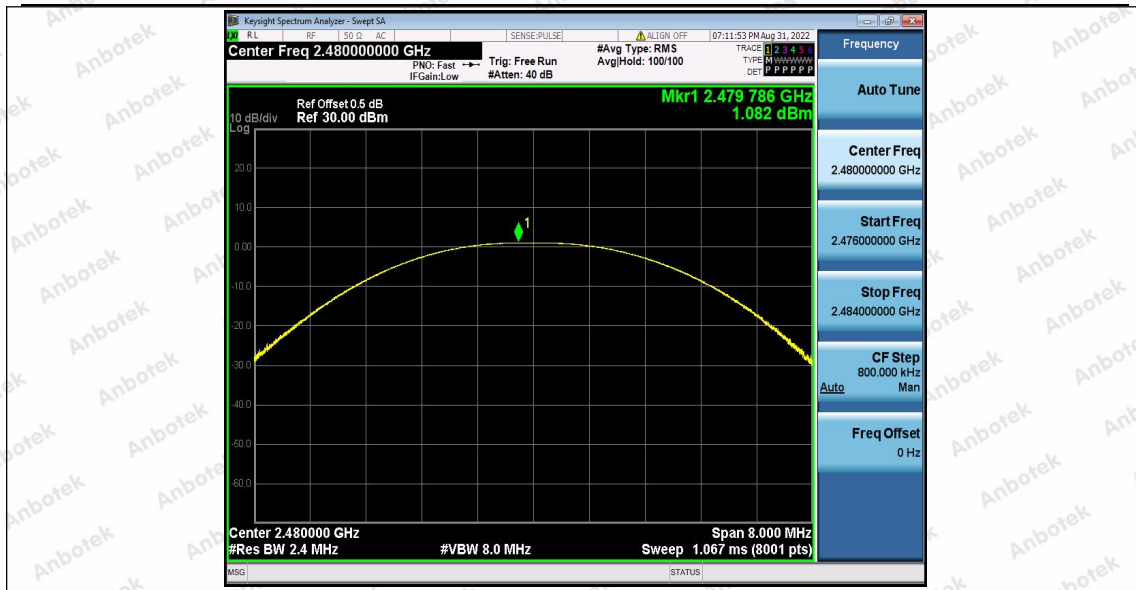
BLE_1M_Ant1_2480

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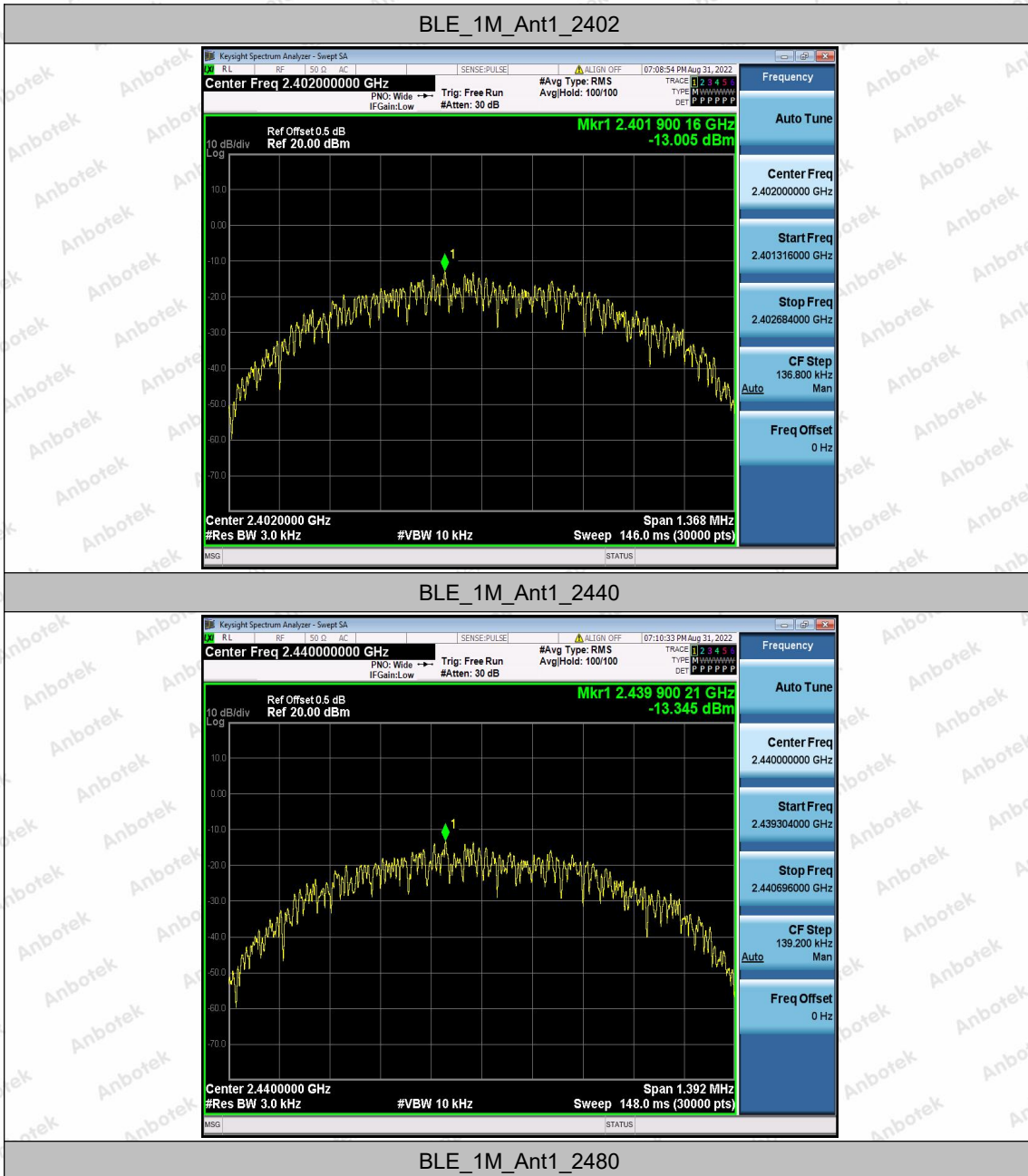
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.01	≤8.00	PASS
		2440	-13.35	≤8.00	PASS
		2480	-14.15	≤8.00	PASS



Test Graphs

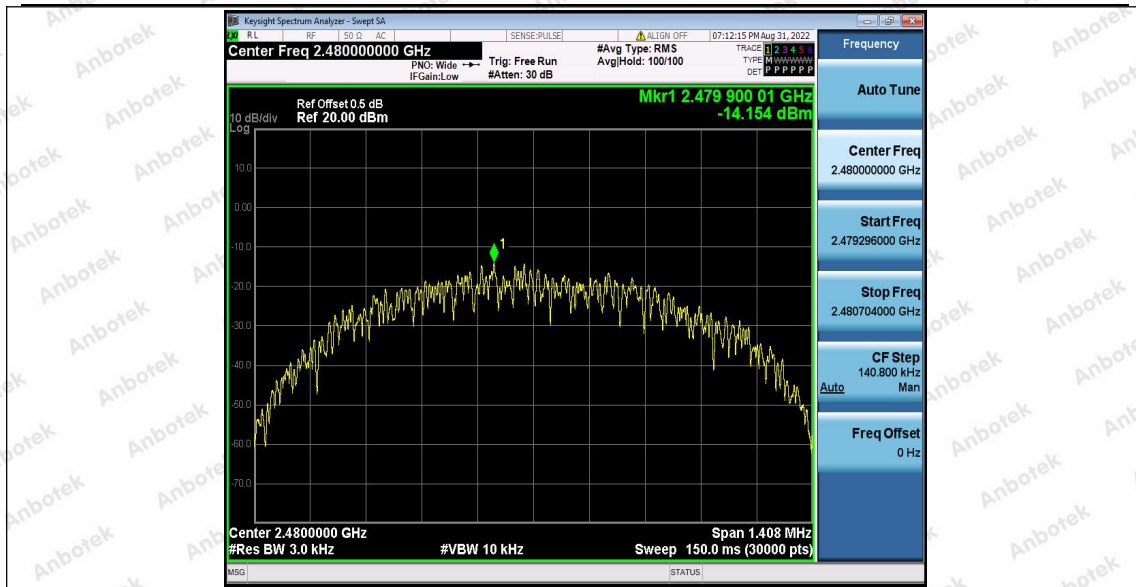


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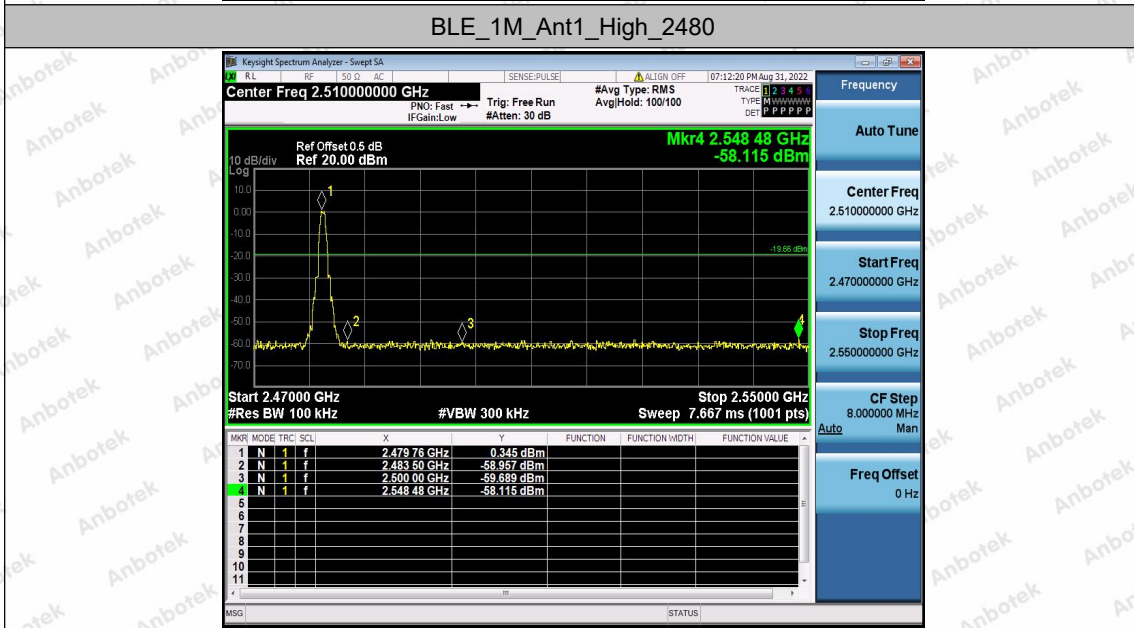
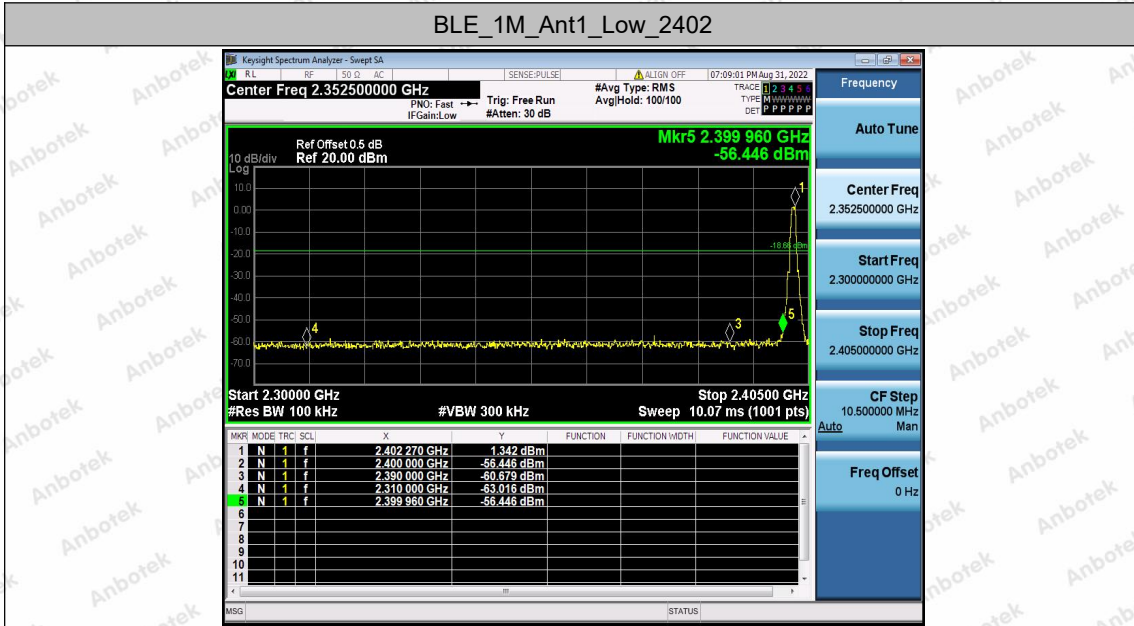
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-56.45	≤-18.66	PASS
		High	2480	0.35	-58.12	≤-19.66	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	1.27	1.27	---	PASS
			30~1000	1.27	-60.46	≤-28.73	PASS
			1000~26500	1.27	-53.3	≤-28.73	PASS
		2440	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-69.62	≤-29.78	PASS
			1000~26500	0.22	-53.79	≤-29.78	PASS
		2480	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-69.78	≤-29.79	PASS
			1000~26500	0.21	-54	≤-29.79	PASS

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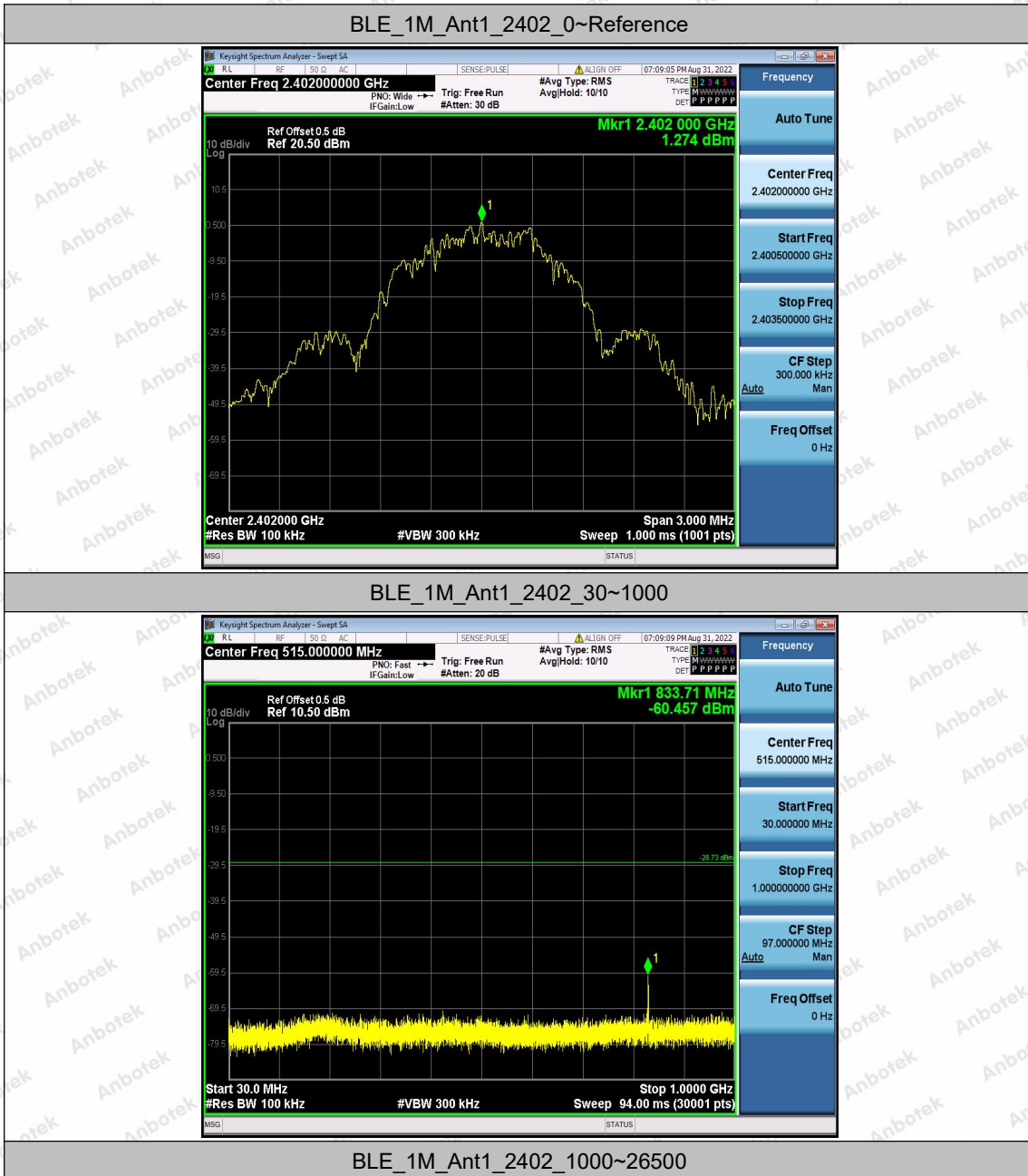
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Test Graphs

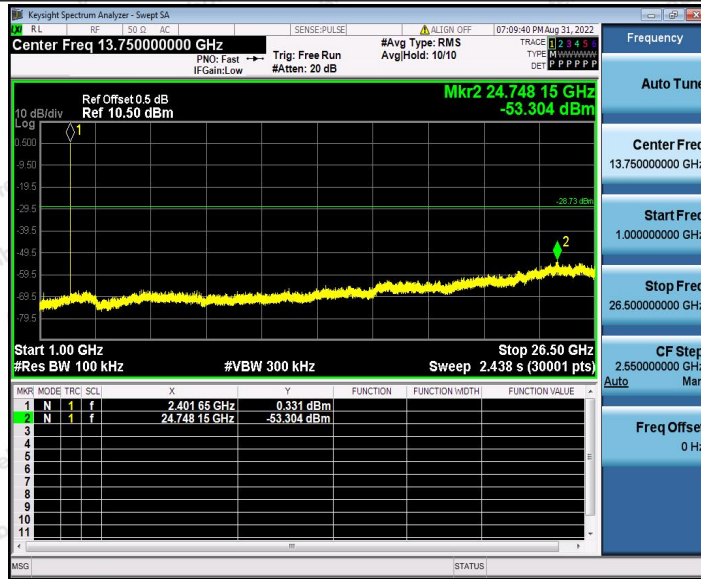


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BLE_1M_Ant1_2440_0~Reference



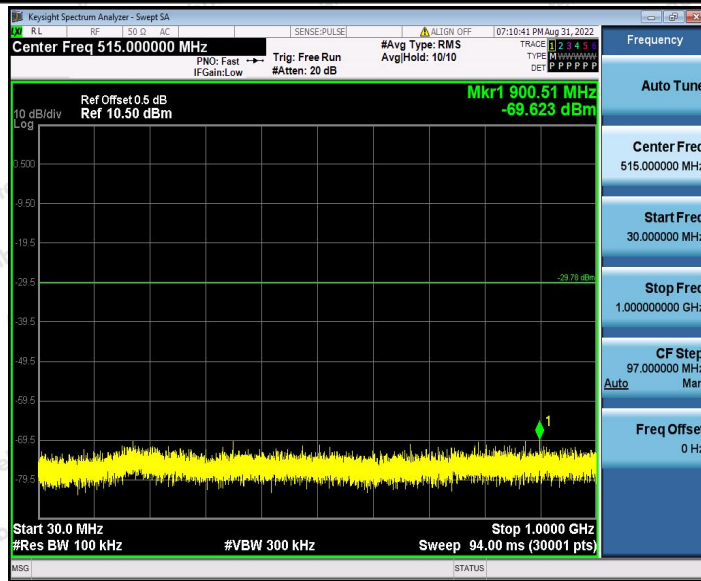
BLE_1M_Ant1_2440_30~1000

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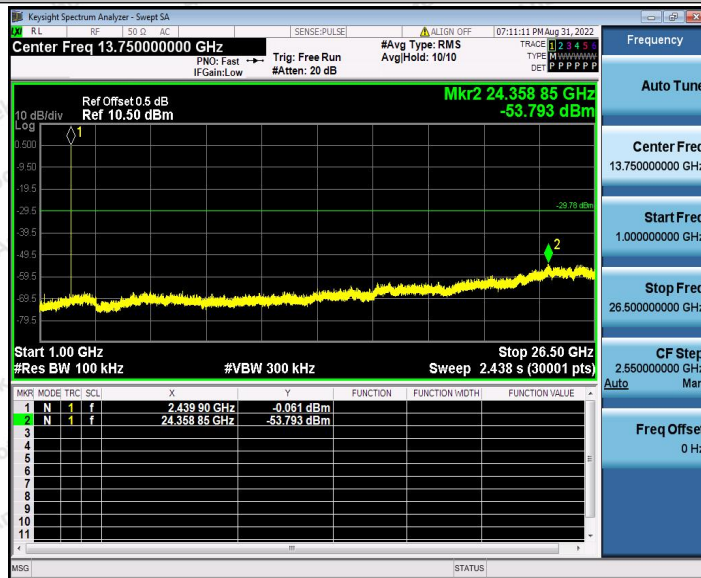
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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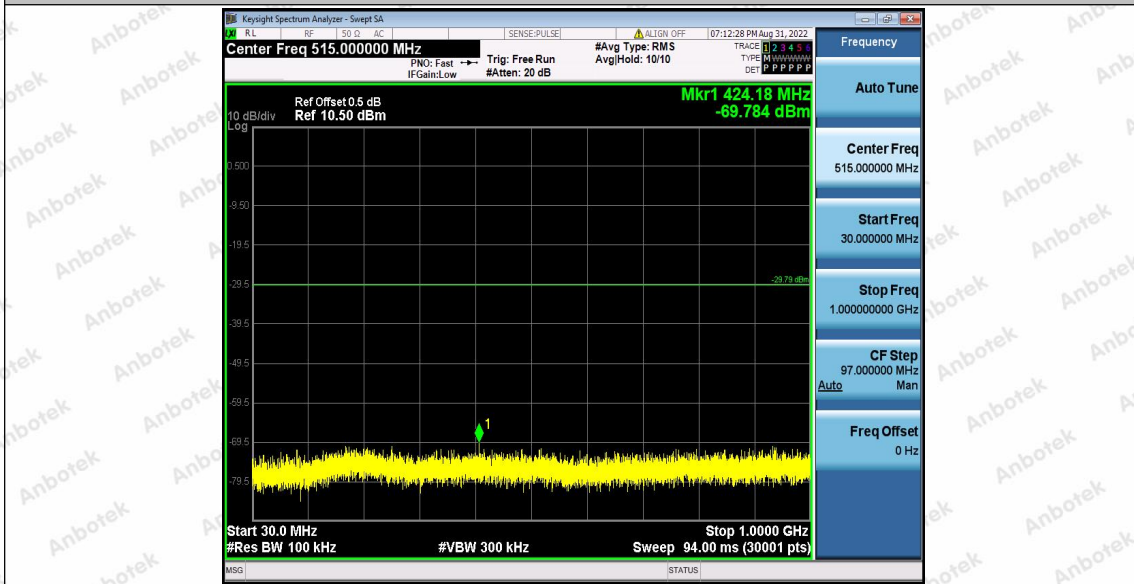
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BLE_1M_Ant1_2480_30~1000



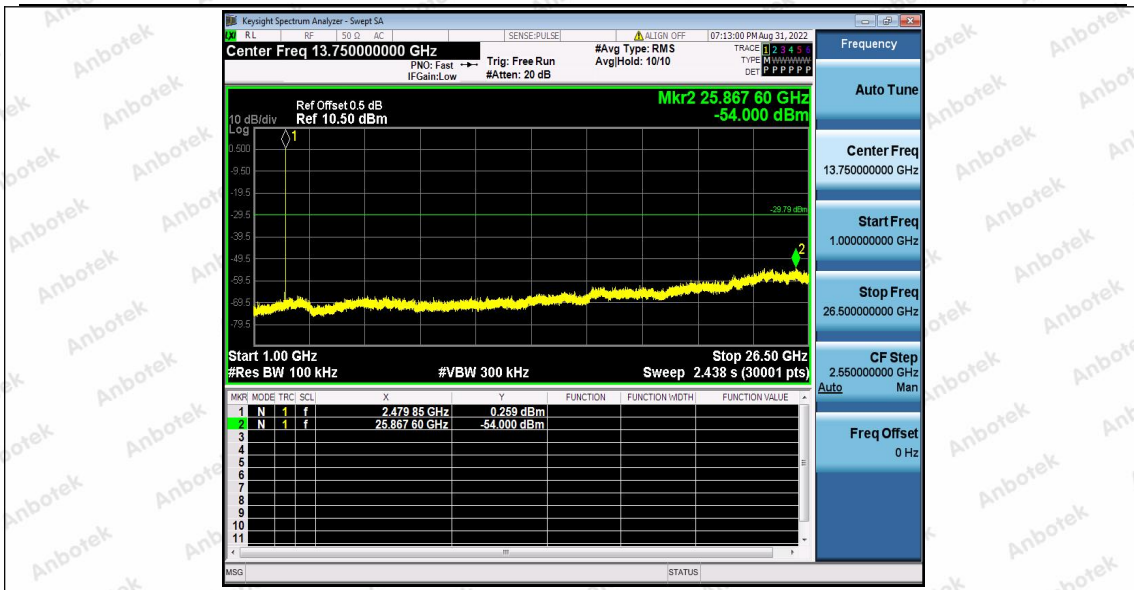
BLE_1M_Ant1_2480_1000~26500

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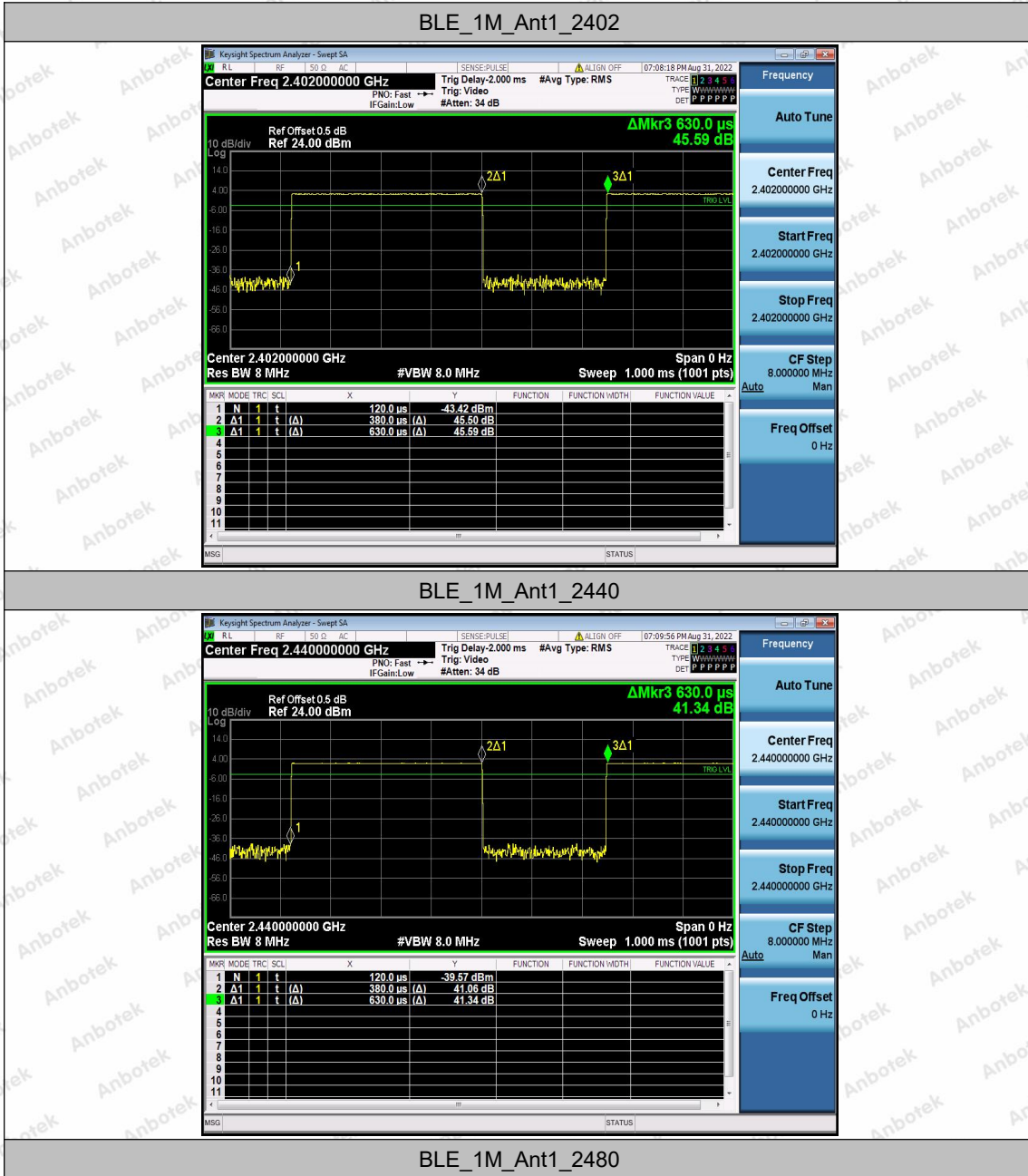
Appendix G: Duty Cycle

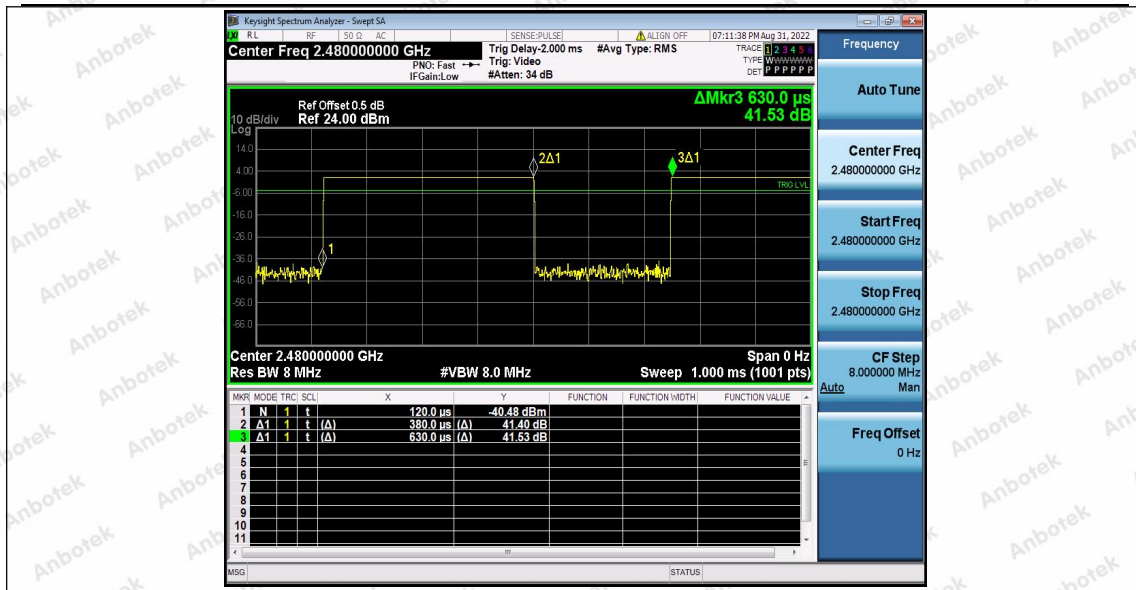
Test Result

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



Test Graphs





---End---

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