

Appendix Test Data

Report No.:	18220WC30035801	Test Sample No.:	1-2-2
Start Test Date:	2023.03.08	Finish Test Date:	2023.03.21
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.2°C	Relative Humidity:	56%
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	0.696	2401.656	2402.352	0.5	PASS
		2440	0.696	2439.640	2440.336	0.5	PASS
		2480	0.696	2479.648	2480.344	0.5	PASS

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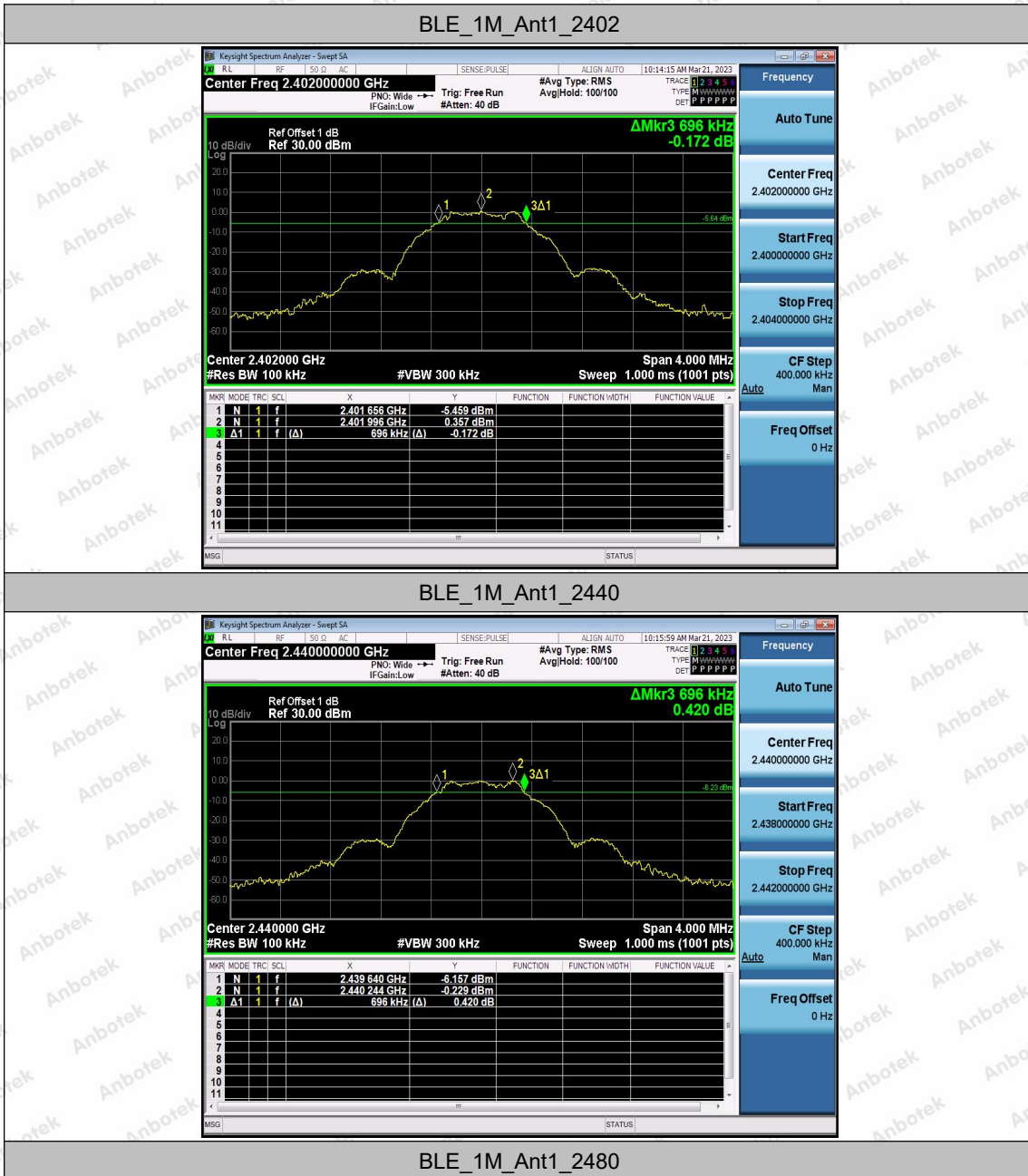
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Test Graphs



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0292	2401.4930	2402.5222
		2440	1.0273	2439.4933	2440.5206
		2480	1.0249	2479.4953	2480.5202

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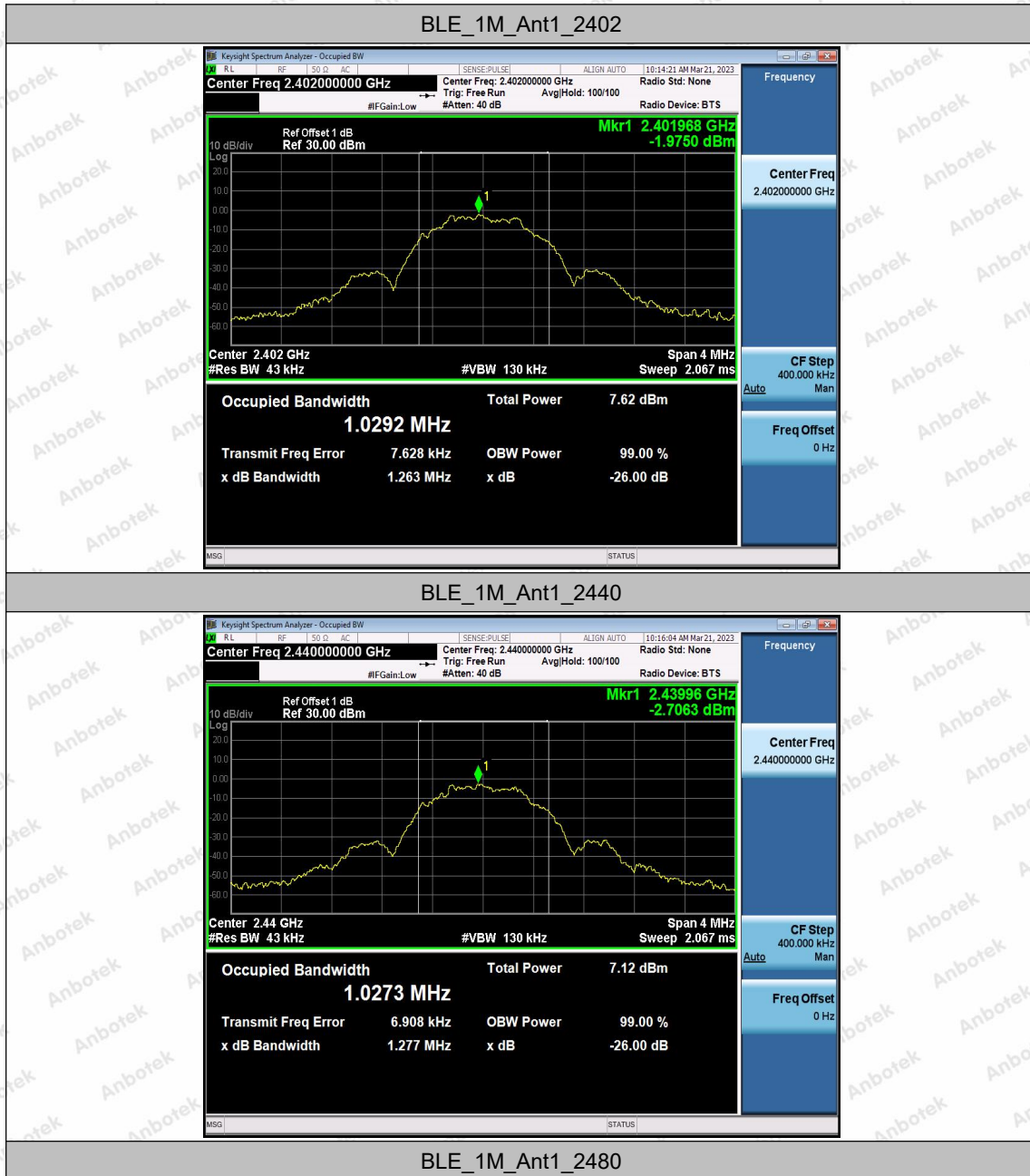
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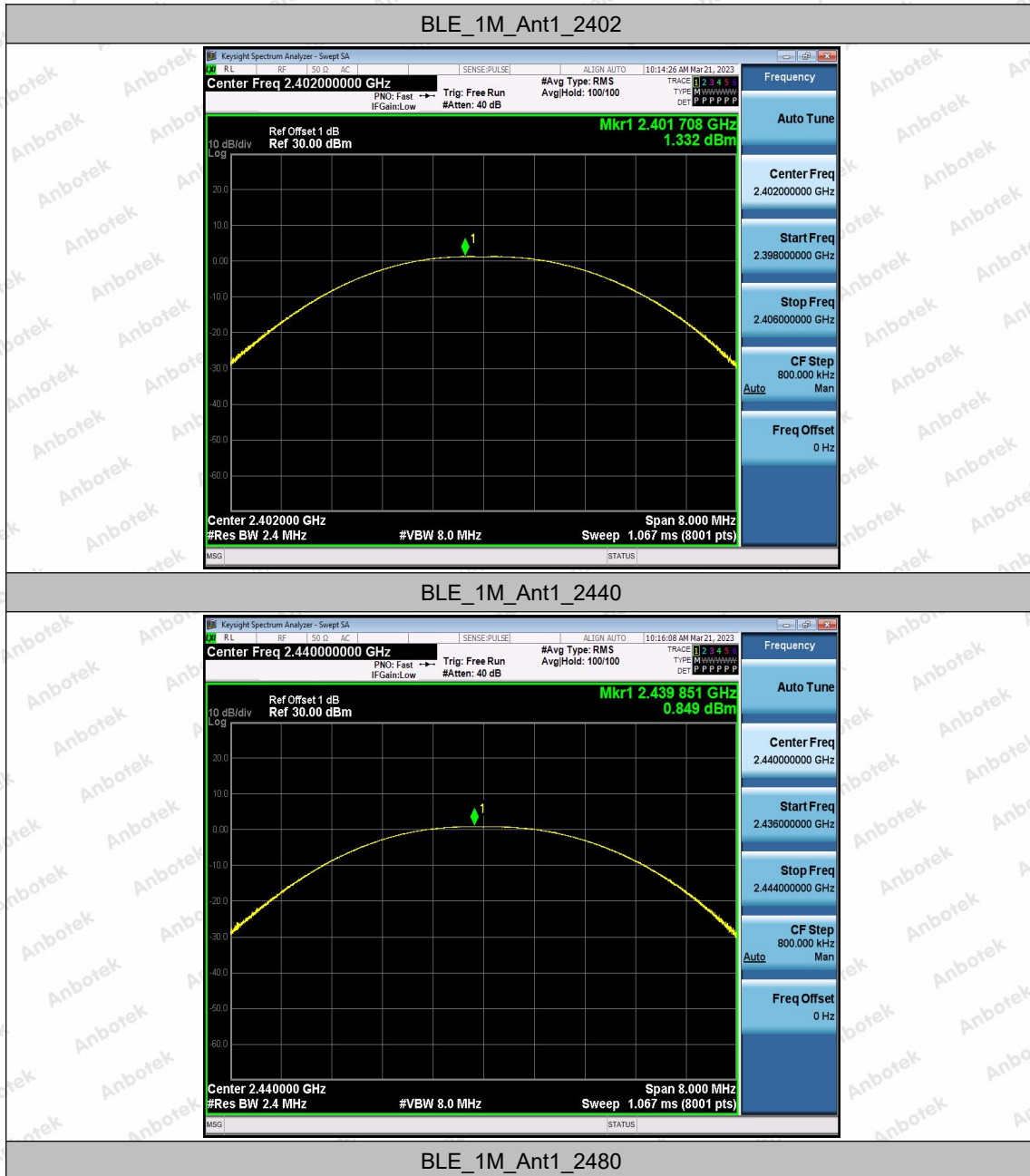
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.33	≤30	PASS
		2440	0.85	≤30	PASS
		2480	0.55	≤30	PASS



Test Graphs Peak



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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.93	≤8.00	PASS
		2440	-14.1	≤8.00	PASS
		2480	-14.49	≤8.00	PASS

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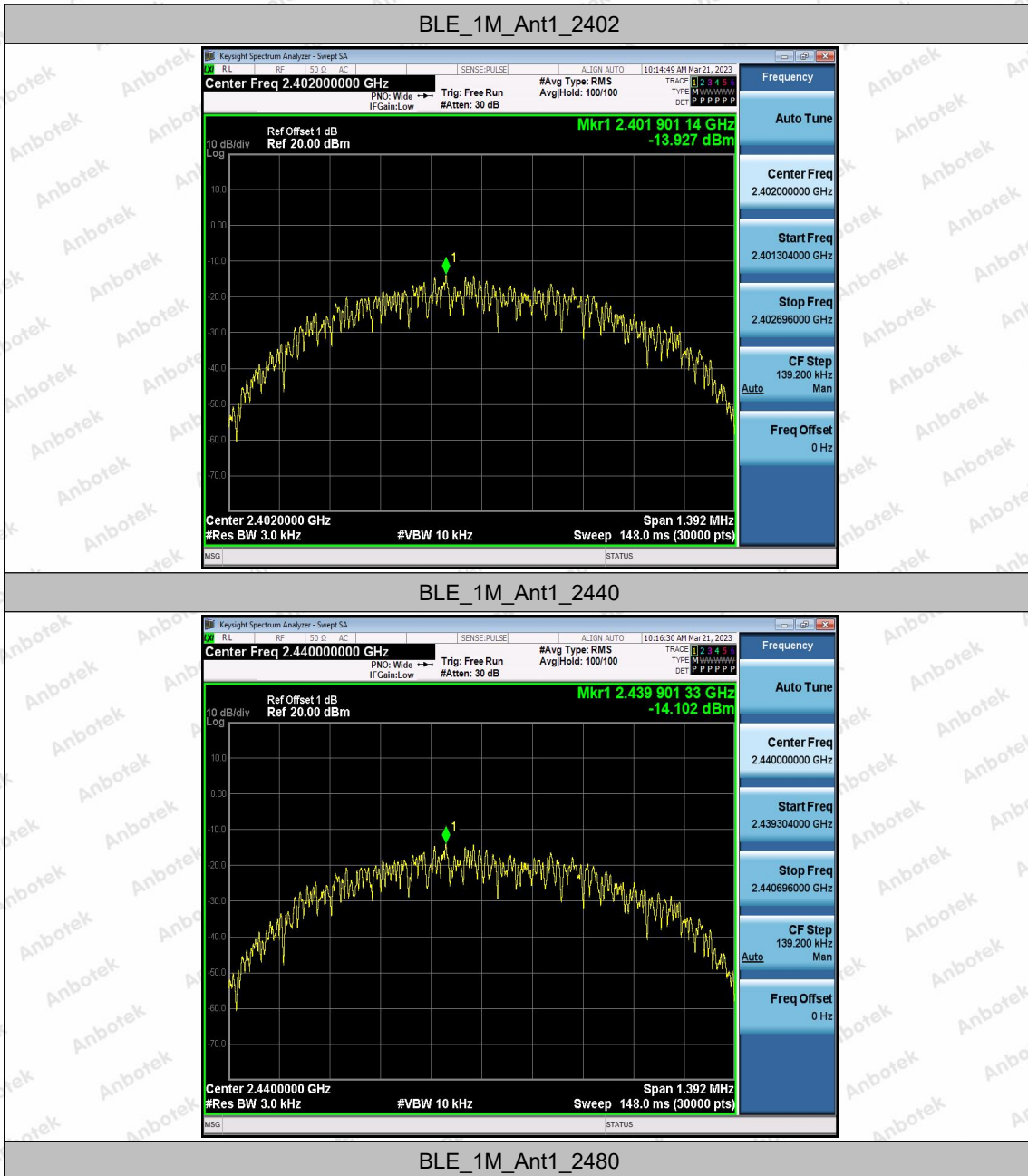
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Test Graphs



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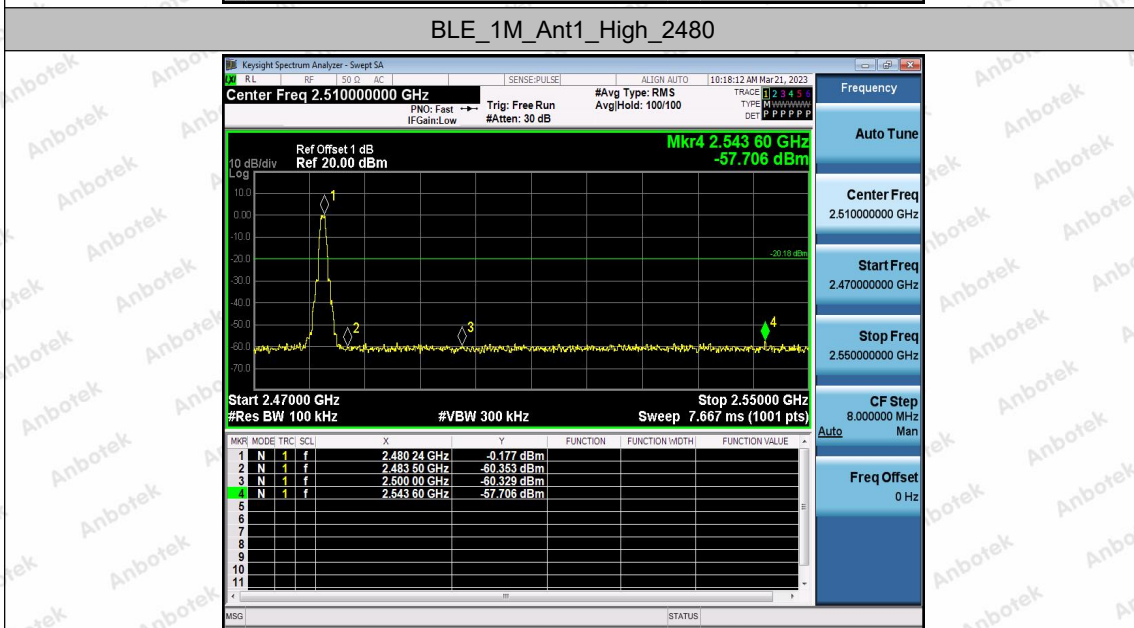
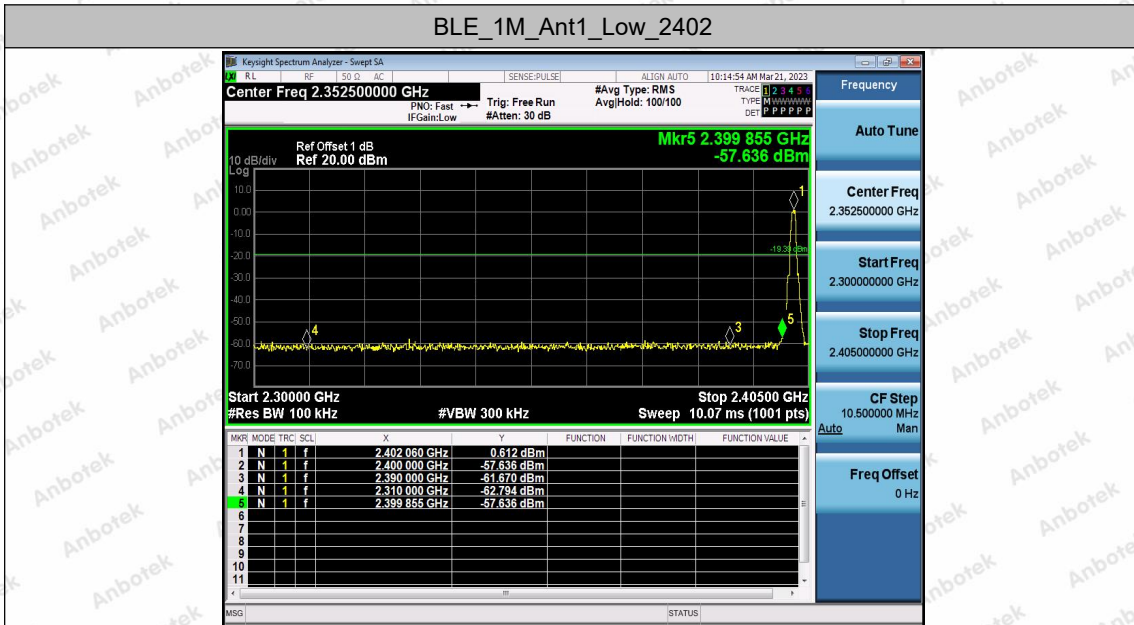
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.61	-57.64	≤-19.39	PASS
		High	2480	-0.18	-57.71	≤-20.18	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	-0.15	-0.15	---	PASS
			30~1000	-0.15	-68.87	≤-20.15	PASS
			1000~26500	-0.15	-54.11	≤-20.15	PASS
		2440	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-68.52	≤-20.82	PASS
			1000~26500	-0.82	-45.39	≤-20.82	PASS
		2480	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-69.65	≤-21.19	PASS
			1000~26500	-1.19	-54.16	≤-21.19	PASS

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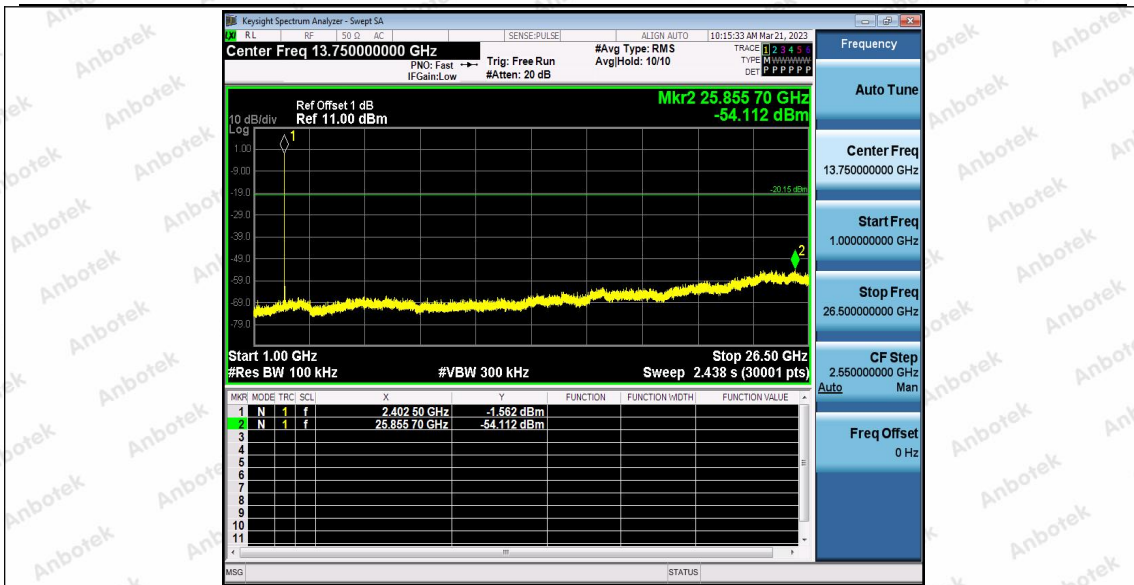


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BLE_1M_Ant1_2440_0~Reference



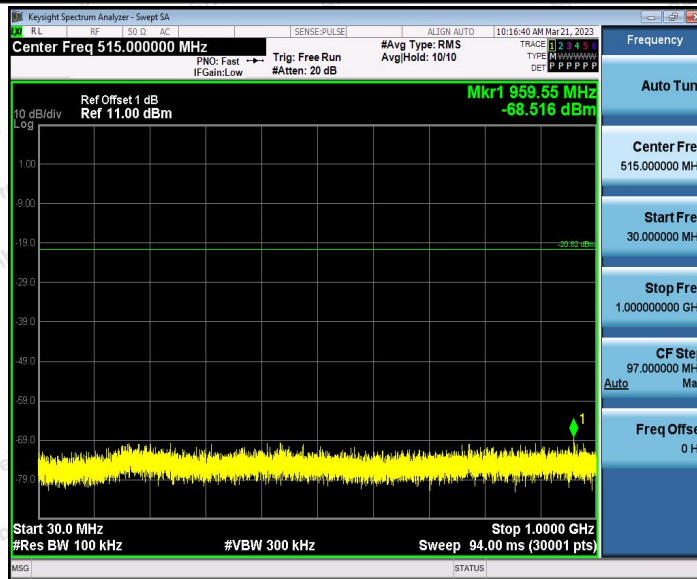
BLE_1M_Ant1_2440_30~1000

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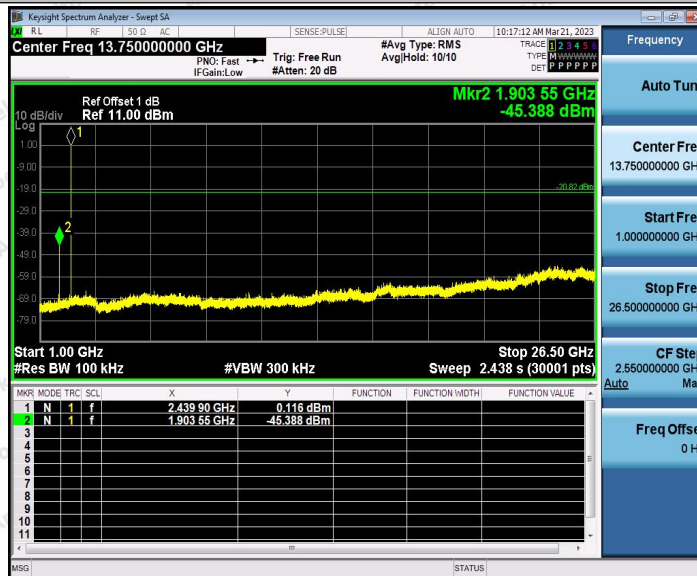
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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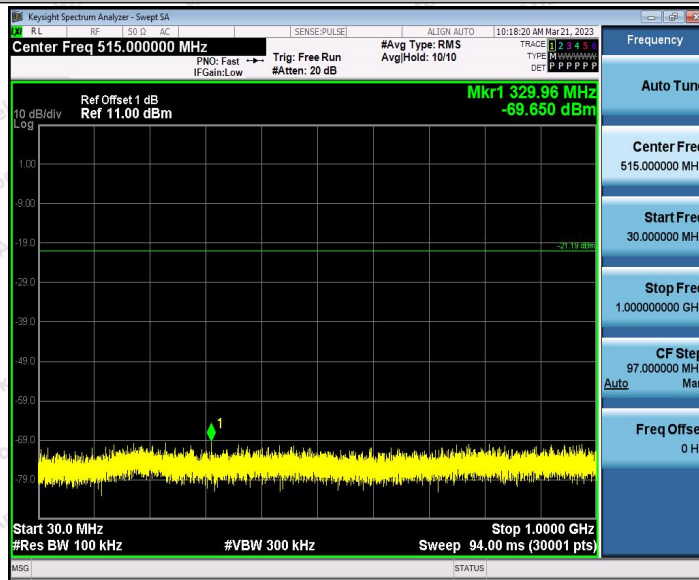
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BLE_1M_Ant1_2480_30~1000



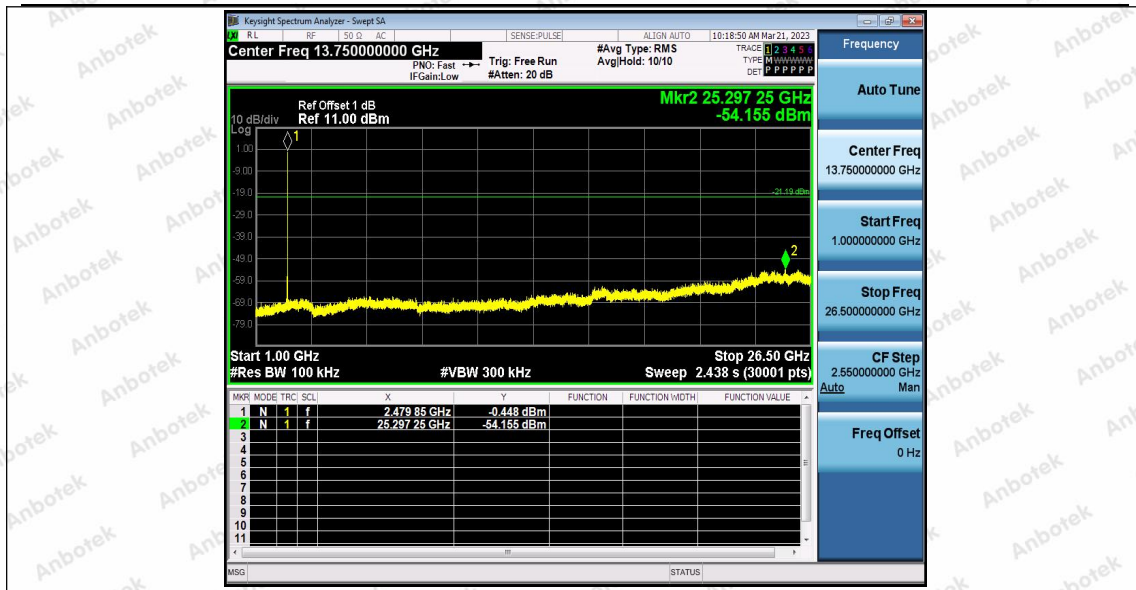
BLE_1M_Ant1_2480_1000~26500

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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

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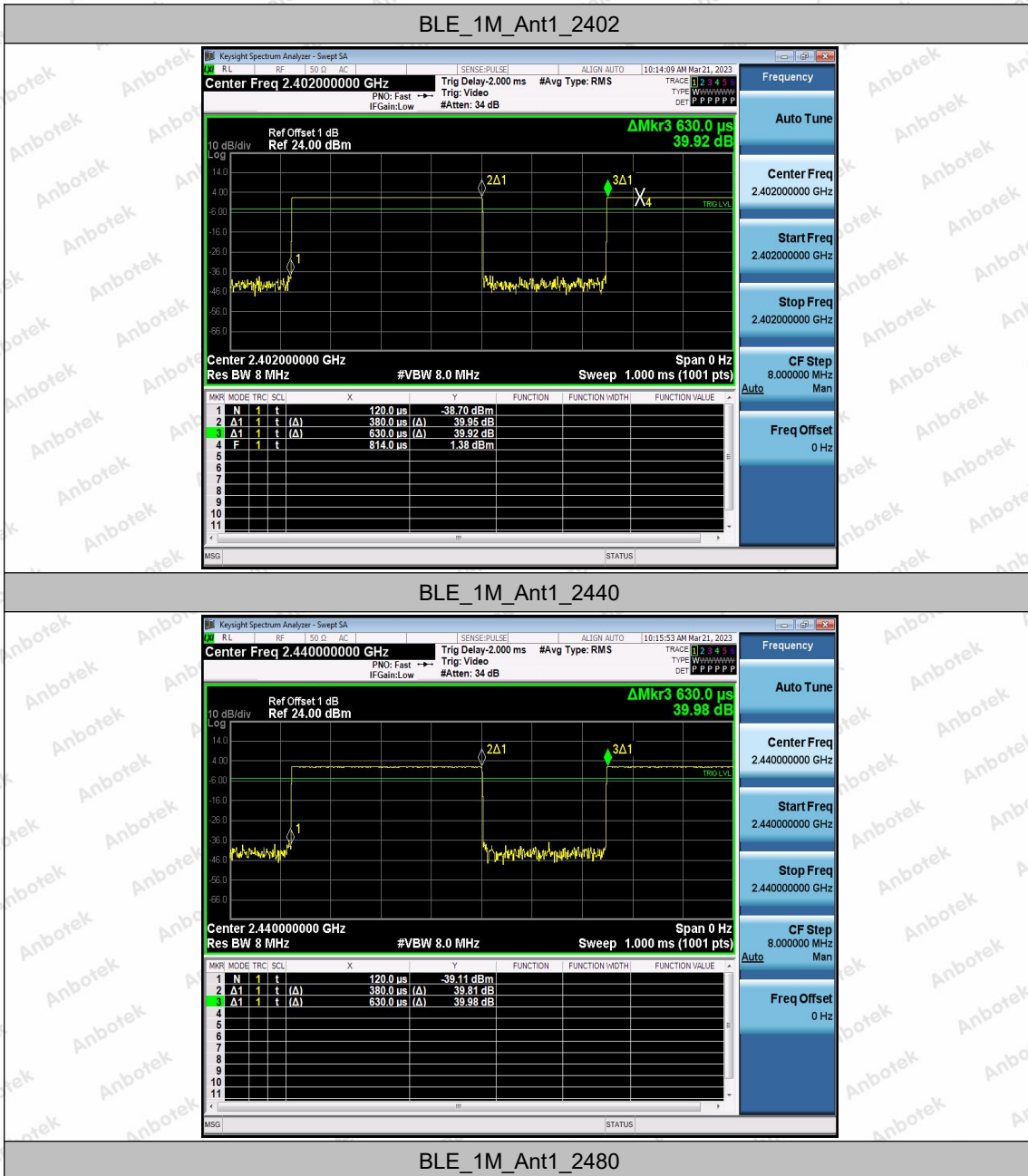
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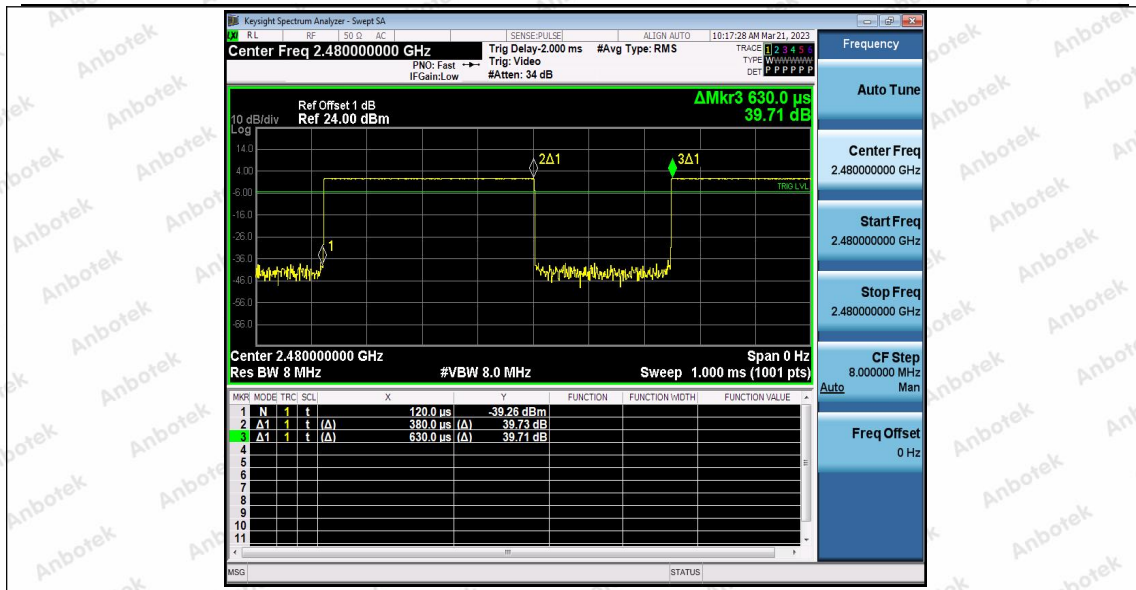


Test Graphs



BLE_1M_Ant1_2480





---End---

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