

Appendix Test Data

Report No.:	18220WC30049801	Test Sample No.:	1-2-2
Start Test Date:	2023.03.27	Finish Test Date:	2023.04.04
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.7C°	Relative Humidity:	57 %
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	0.624	2401.644	2402.268	0.5	PASS
		2440	0.612	2439.640	2440.252	0.5	PASS
		2480	0.672	2479.616	2480.288	0.5	PASS
BLE_2M	Ant1	2402	1.052	2401.424	2402.476	0.5	PASS
		2440	1.072	2439.440	2440.512	0.5	PASS
		2480	1.108	2479.408	2480.516	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

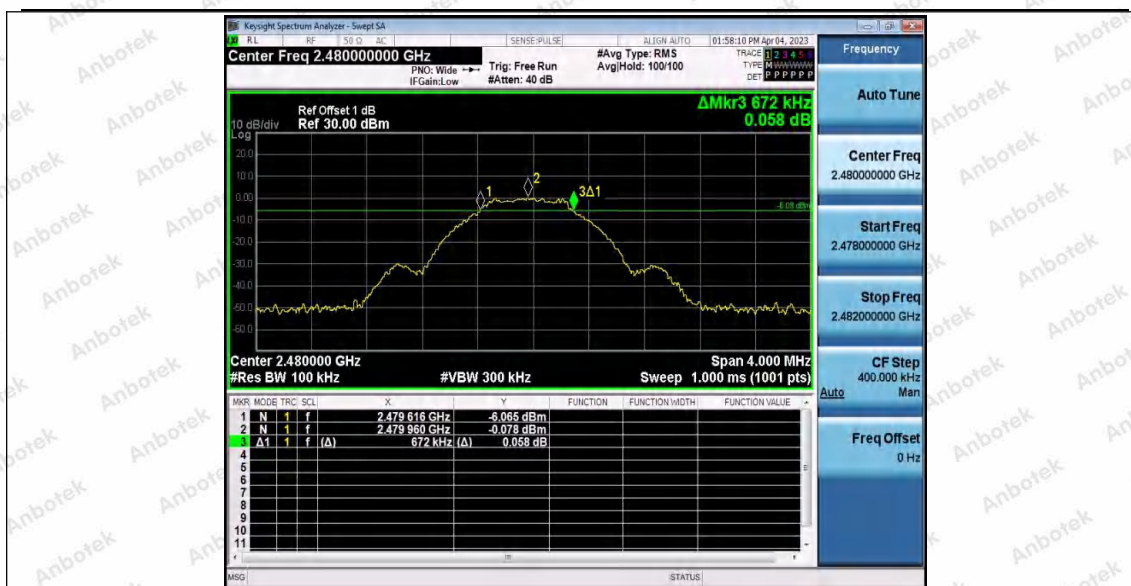
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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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	1.0230	2401.4468	2402.4698
		2440	1.0257	2439.4437	2440.4694
		2480	1.0223	2479.4435	2480.4658
BLE_2M	Ant1	2402	2.0384	2400.9534	2402.9918
		2440	2.0428	2438.9547	2440.9975
		2480	2.0400	2478.9538	2480.9938



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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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	1.35	≤30	PASS
		2440	1.65	≤30	PASS
		2480	1.77	≤30	PASS
BLE_2M	Ant1	2402	1.68	≤30	PASS
		2440	1.74	≤30	PASS
		2480	1.99	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE	2M	Ant1	2402
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BLE 2M Ant1 2440

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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	-13.98	≤8.00	PASS
		2440	-13.74	≤8.00	PASS
		2480	-13.64	≤8.00	PASS
BLE_2M	Ant1	2402	-15.41	≤8.00	PASS
		2440	-15.35	≤8.00	PASS
		2480	-15.16	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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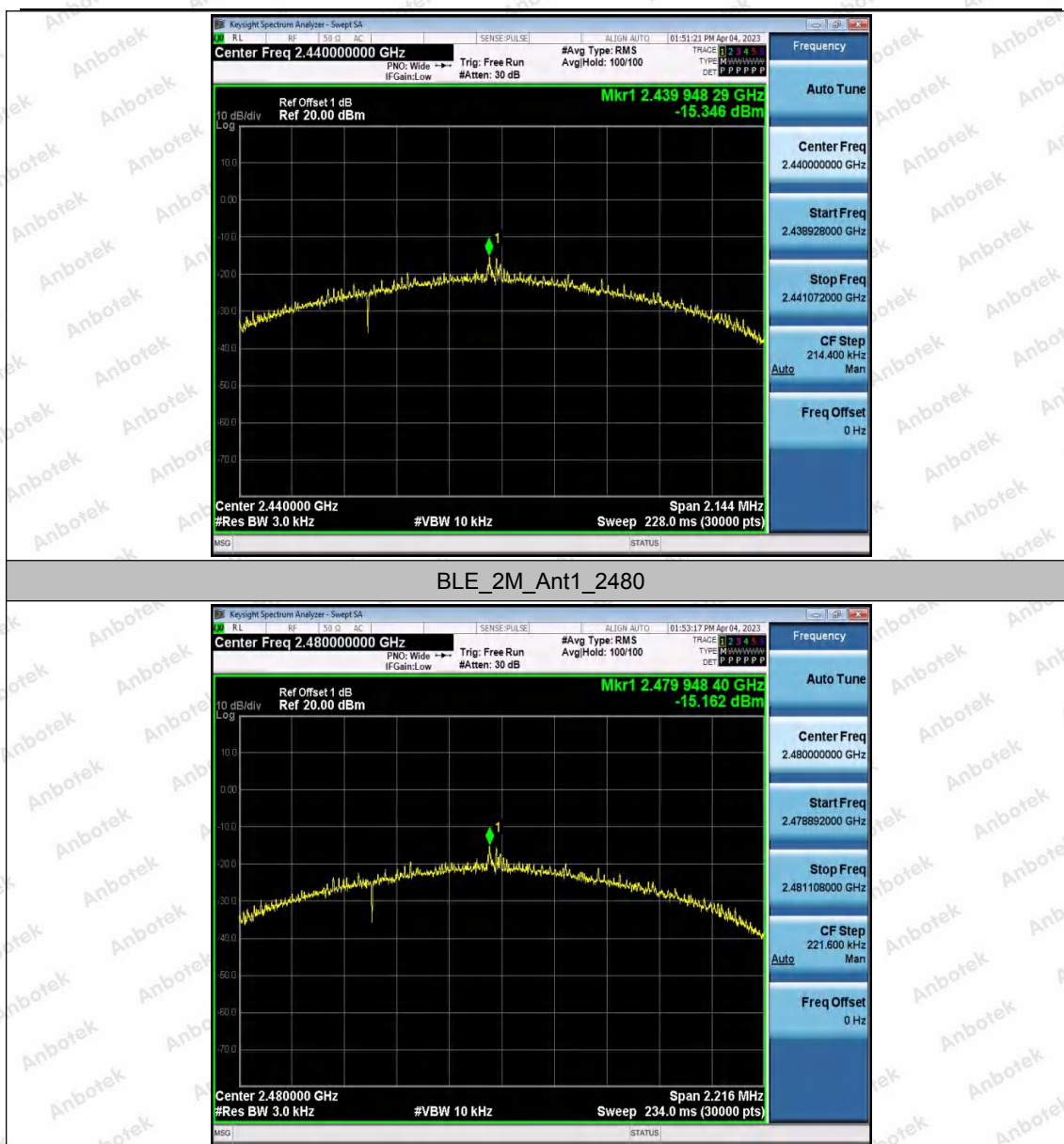


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



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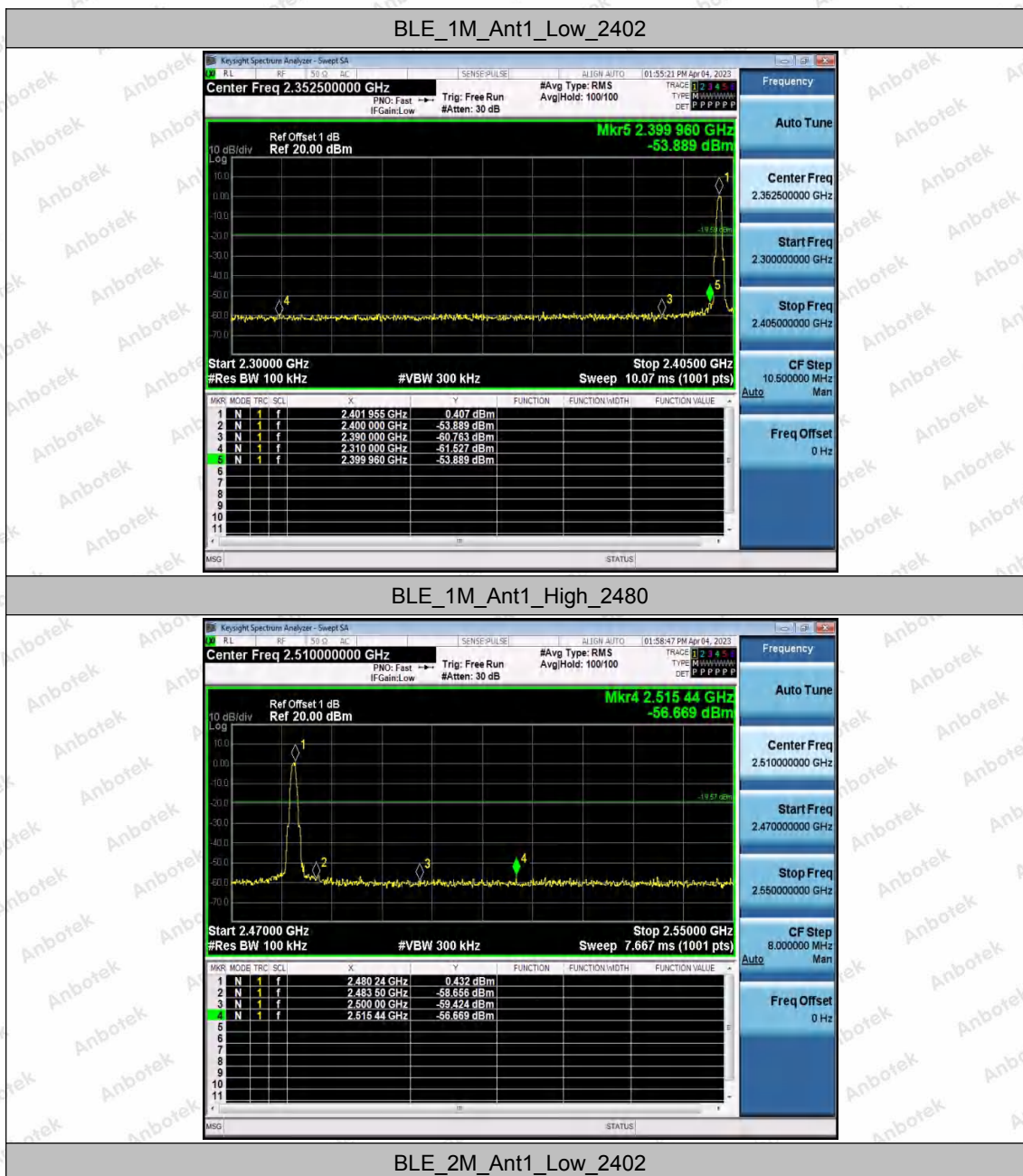
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.41	-53.89	≤-19.59	PASS
		High	2480	0.43	-56.67	≤-19.57	PASS
BLE_2M	Ant1	Low	2402	1.22	-48.43	≤-18.78	PASS
		High	2480	1.60	-56.51	≤-18.41	PASS



Test Graphs



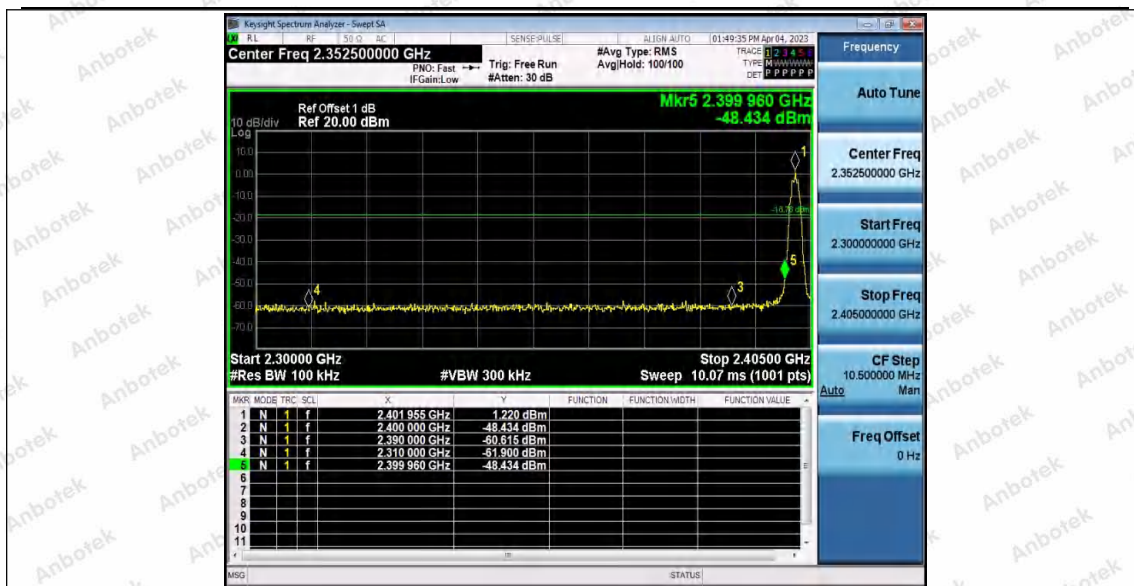
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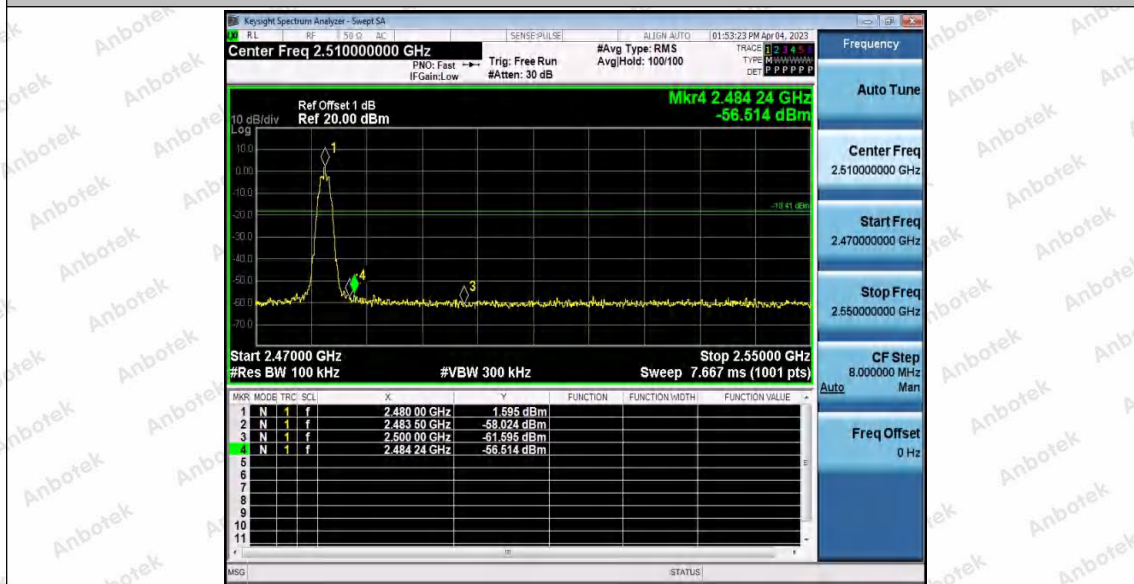


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BLE_2M_Ant1_High_2480



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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	-0.84	-0.84	---	PASS
			30~1000	-0.84	-67.85	≤-20.84	PASS
			1000~26500	-0.84	-53.14	≤-20.84	PASS
		2440	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-69.01	≤-20.43	PASS
			1000~26500	-0.43	-52.54	≤-20.43	PASS
		2480	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-67.73	≤-20.25	PASS
			1000~26500	-0.25	-52.87	≤-20.25	PASS
BLE_2M	Ant1	2402	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-68.06	≤-22.14	PASS
			1000~26500	-2.14	-52.8	≤-22.14	PASS
		2440	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-67.96	≤-19.19	PASS
			1000~26500	0.81	-52.66	≤-19.19	PASS
		2480	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-67.72	≤-21	PASS
			1000~26500	-1.00	-52.23	≤-21	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

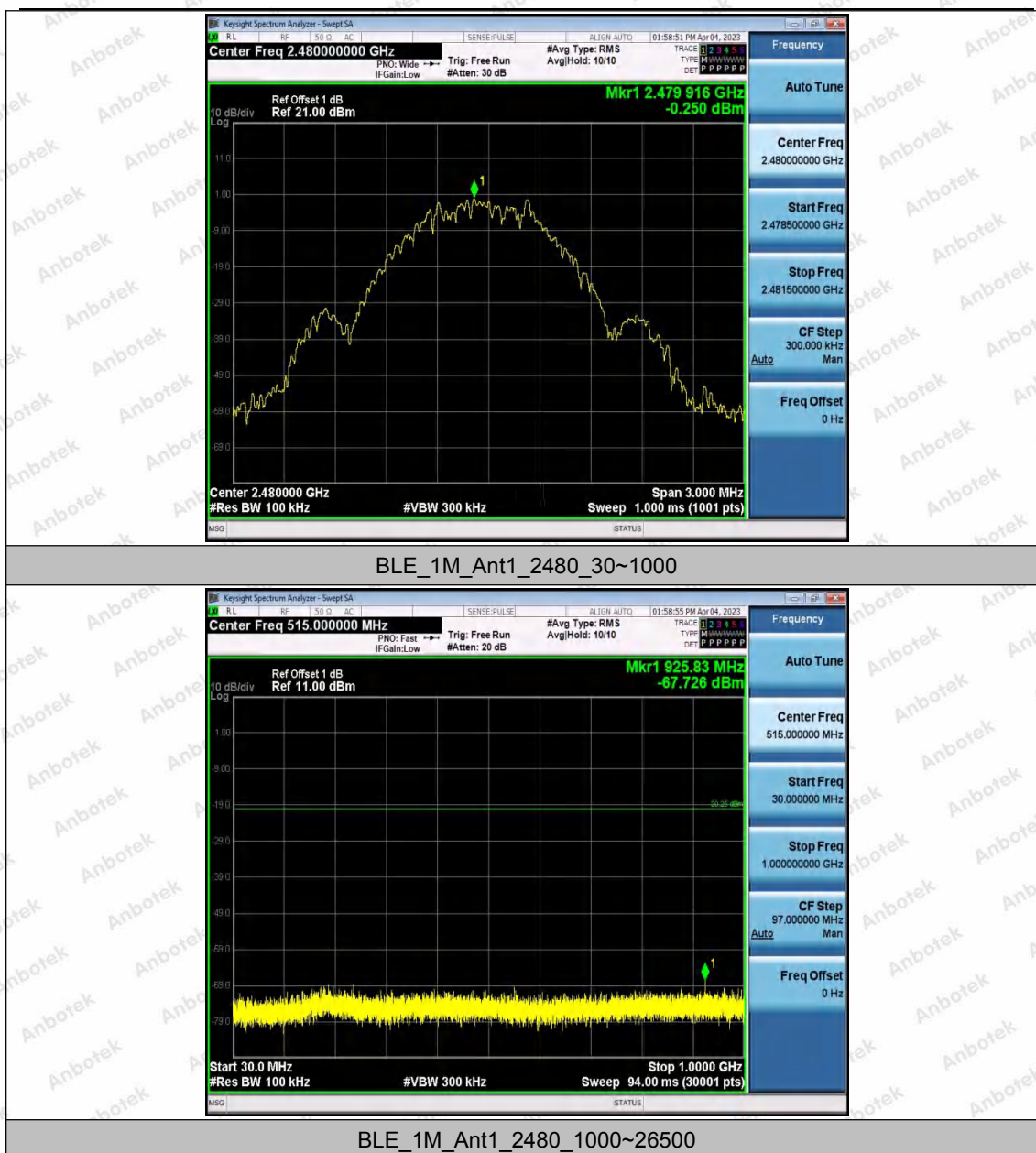
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000





BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

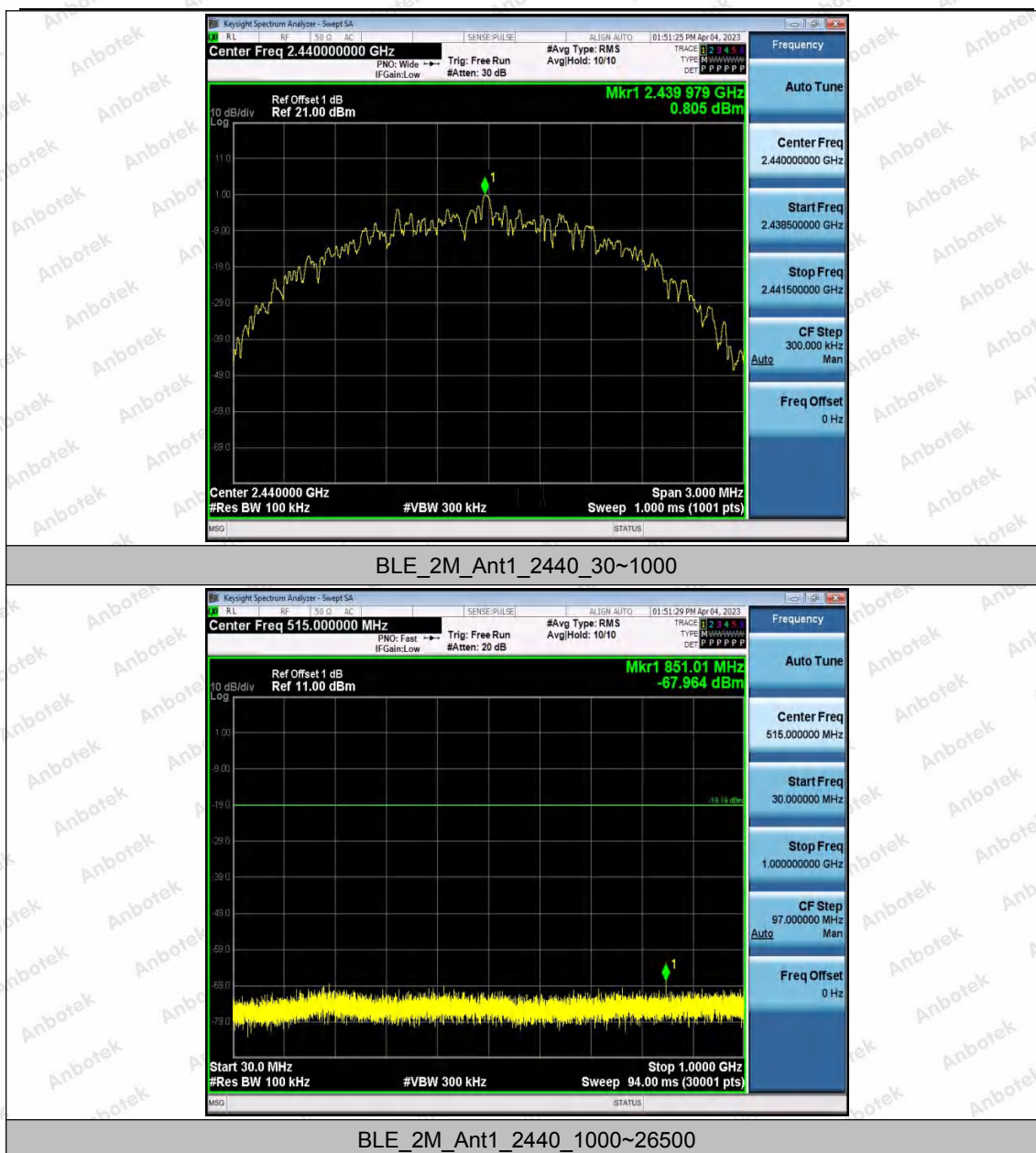
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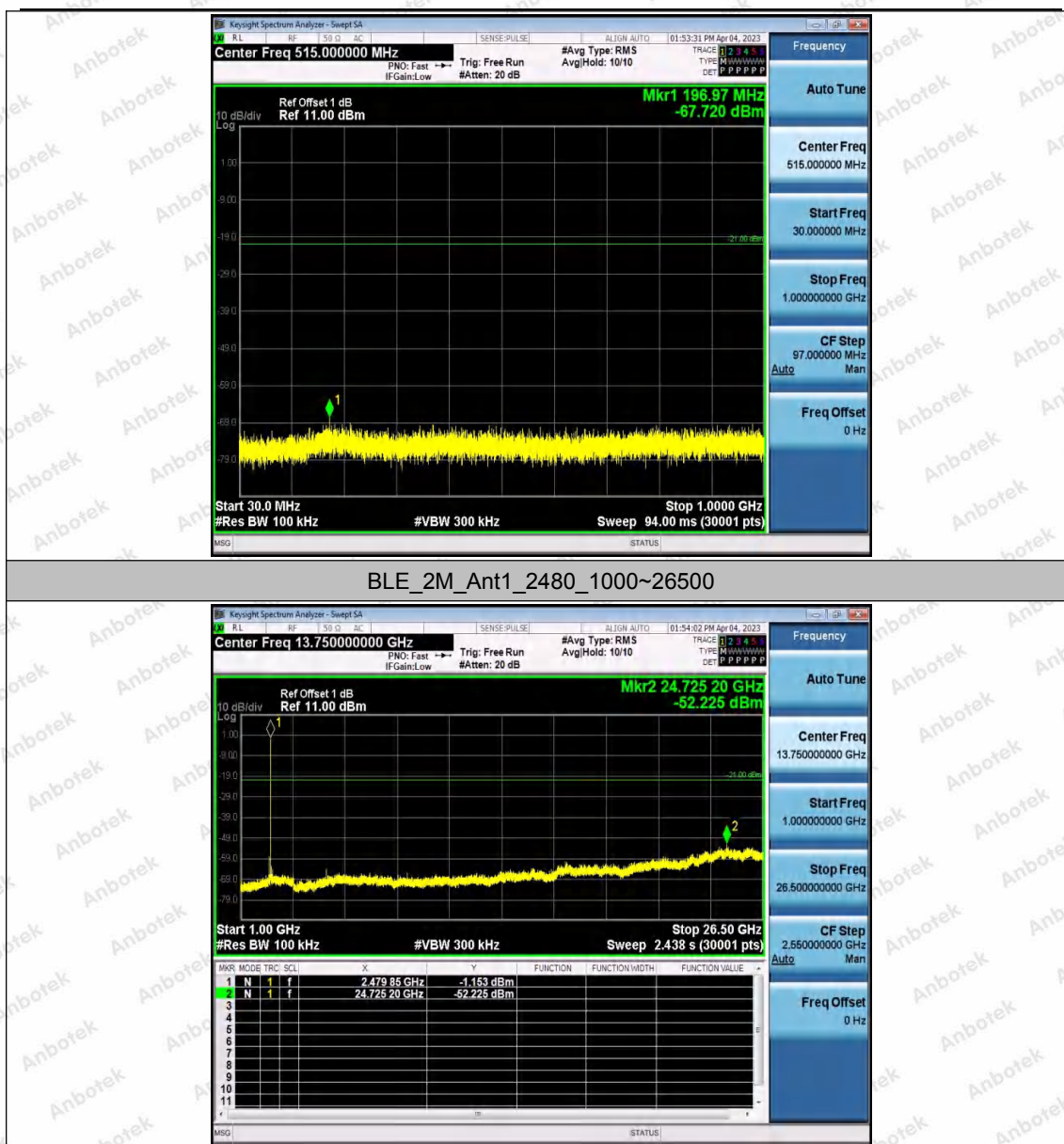


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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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	2.10	2.50	84.00	0.76
		2440	2.10	2.50	84.00	0.76
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
		2440	1.06	1.88	56.38	2.49
		2480	1.06	1.88	56.38	2.49



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

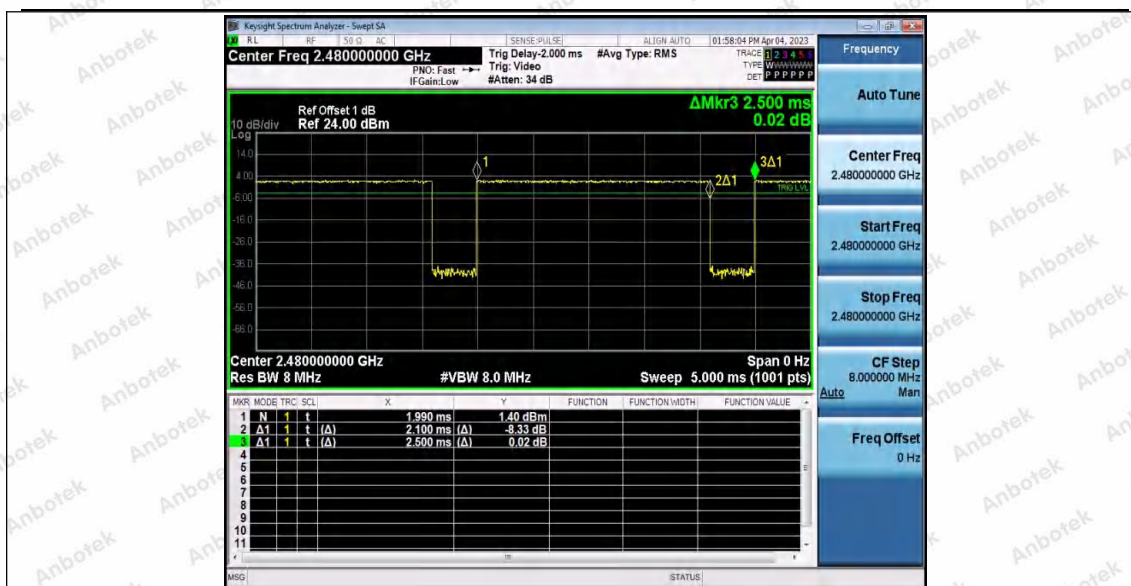
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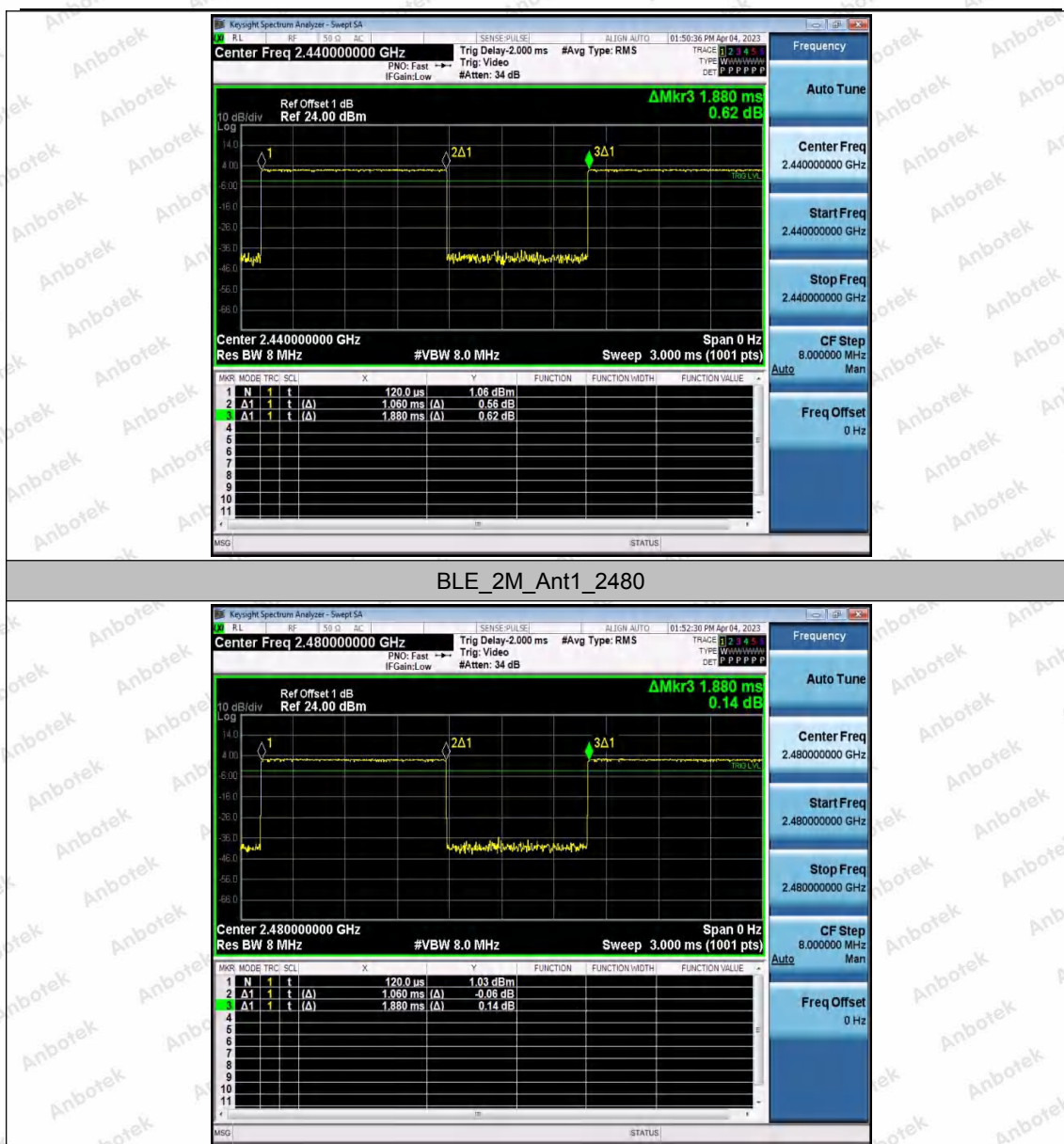


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

