

Appendix Test Data

Report No.:	18220WC20132201	Test Sample No.:	1-2-2
Start Test Date:	2022.6.20	Finish Test Date:	2022.6.27
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.1 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.760	2401.672	2402.432	≥0.5	PASS
		2440	0.700	2439.660	2440.360	≥0.5	PASS
		2480	0.716	2479.632	2480.348	≥0.5	PASS
BLE_2M	Ant1	2402	0.980	2401.516	2402.496	≥0.5	PASS
		2440	0.996	2439.504	2440.500	≥0.5	PASS
		2480	1.016	2479.480	2480.496	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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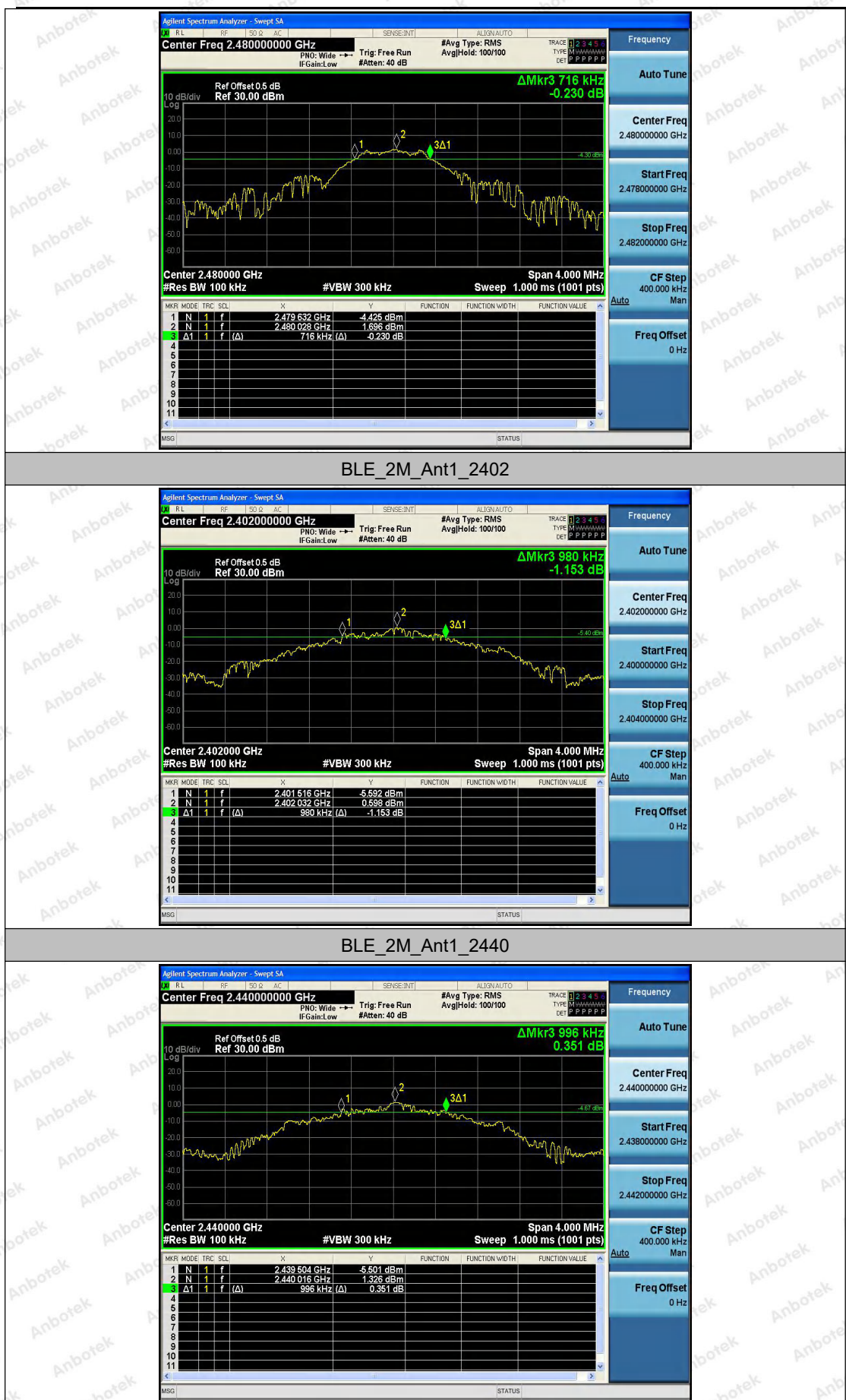
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.8047	2401.023	2402.827	---	PASS
		2440	1.6937	2439.100	2440.794	---	PASS
		2480	1.4512	2479.238	2480.689	---	PASS
BLE_2M	Ant1	2402	2.1966	2400.912	2403.109	---	PASS
		2440	2.2573	2438.876	2441.133	---	PASS
		2480	2.2046	2478.918	2481.123	---	PASS

Test Graphs

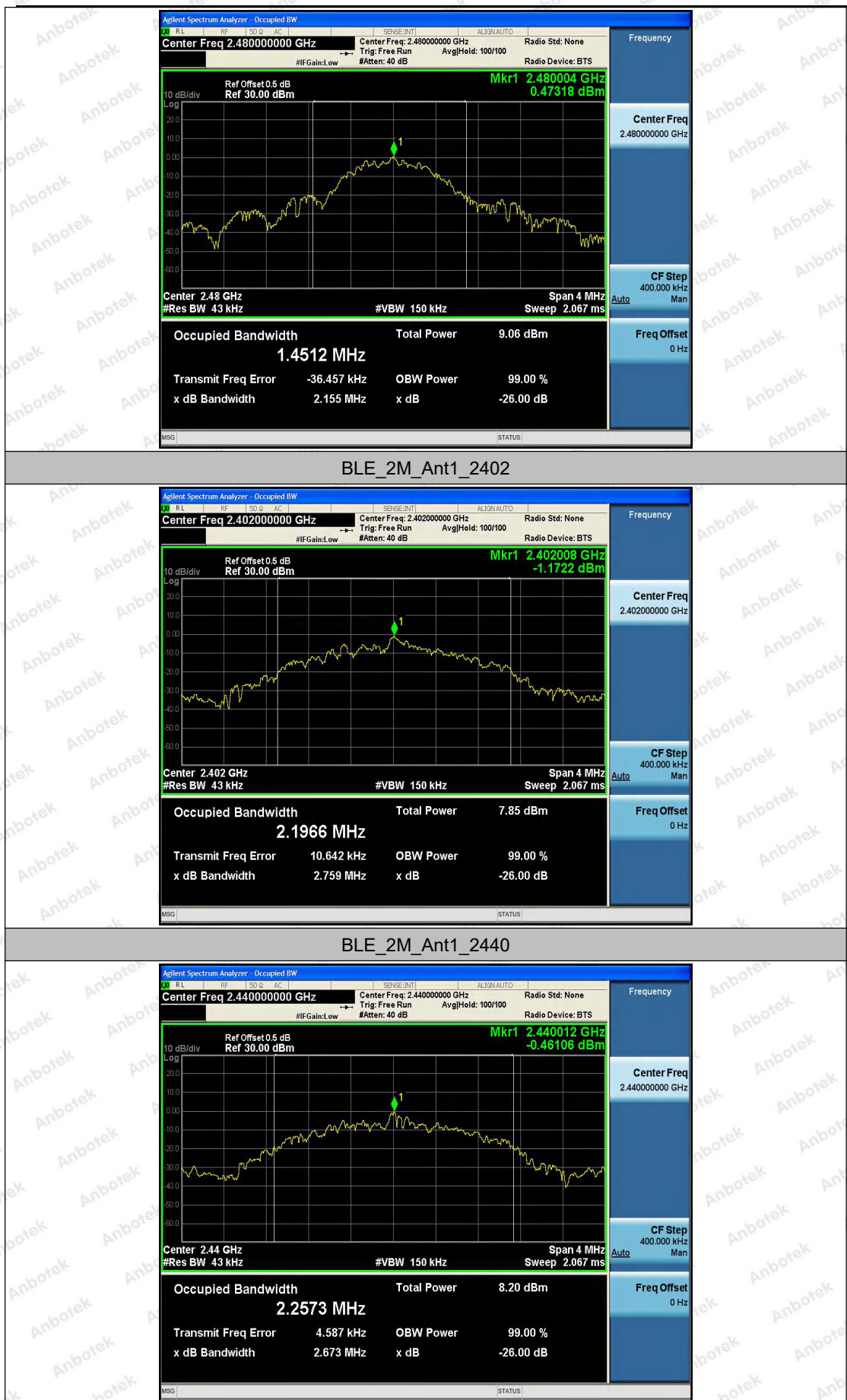


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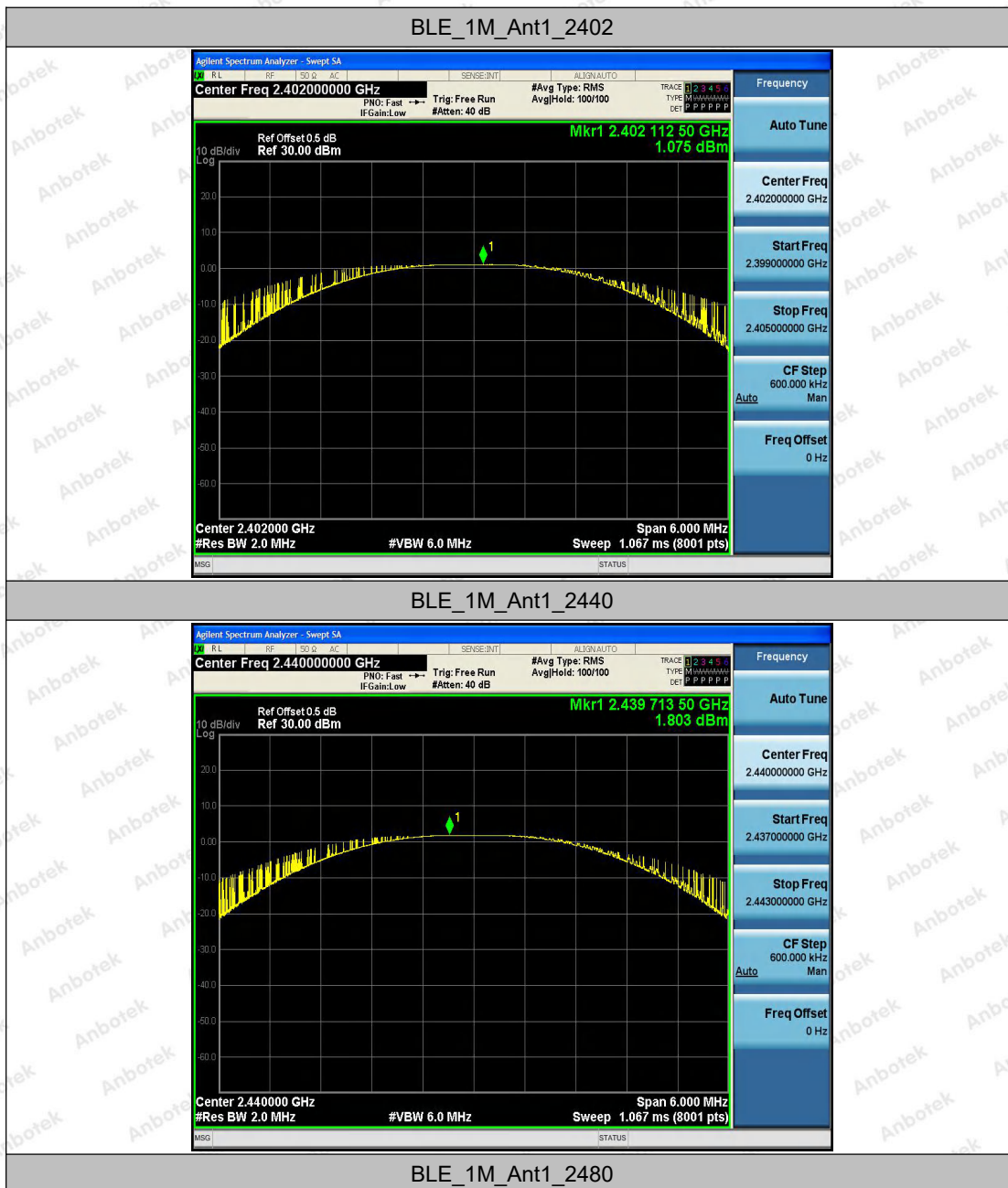
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.08	≤30	PASS
		2440	1.8	≤30	PASS
		2480	2.15	≤30	PASS
BLE_2M	Ant1	2402	1.11	≤30	PASS
		2440	1.87	≤30	PASS
		2480	2.2	≤30	PASS

Test Graphs

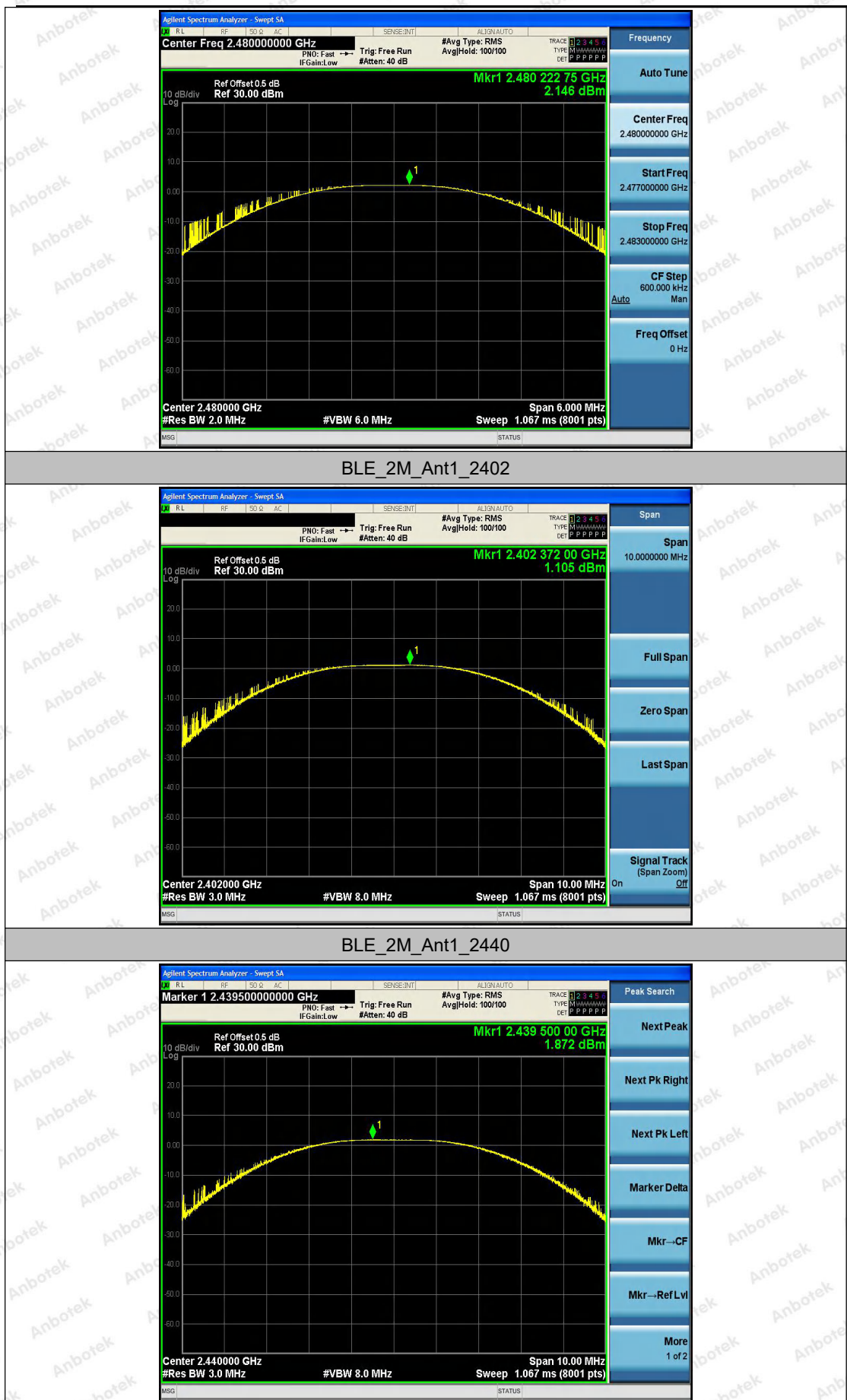


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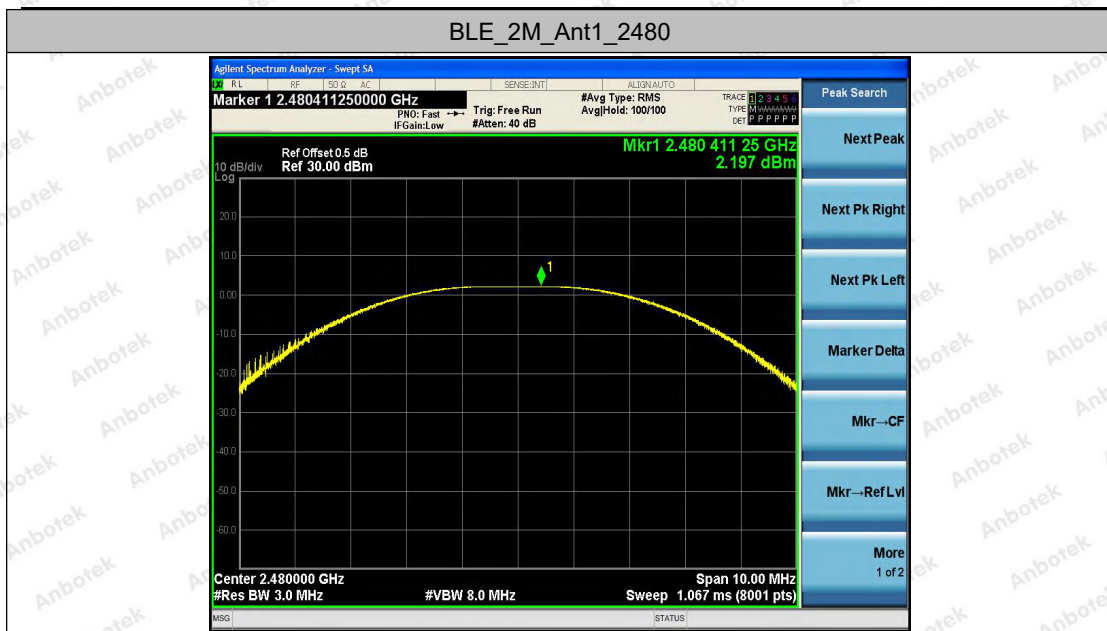
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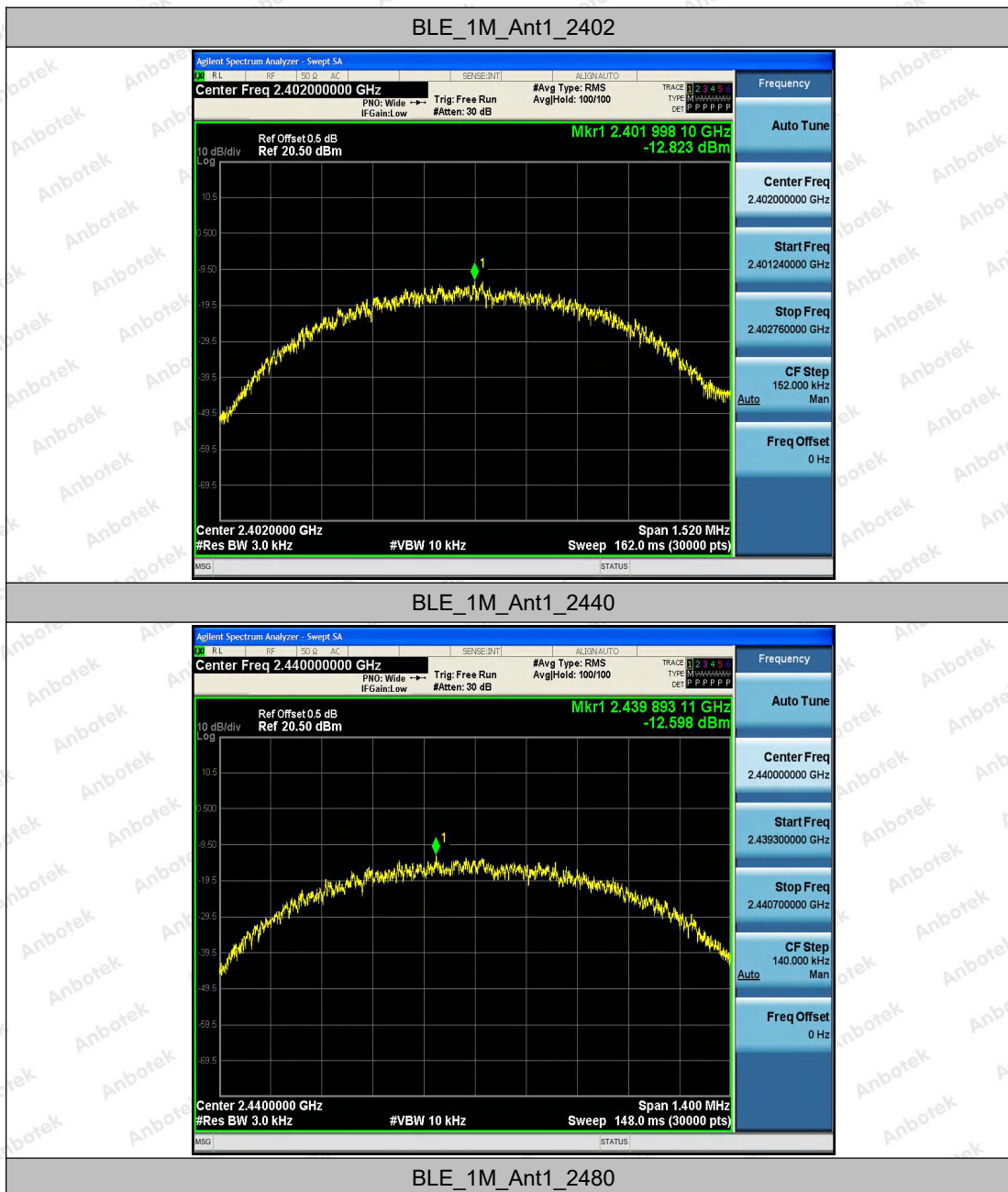
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.82	≤8	PASS
		2440	-12.6	≤8	PASS
		2480	-12.09	≤8	PASS
BLE_2M	Ant1	2402	-14.54	≤8	PASS
		2440	-13.49	≤8	PASS
		2480	-13.9	≤8	PASS

Test Graphs

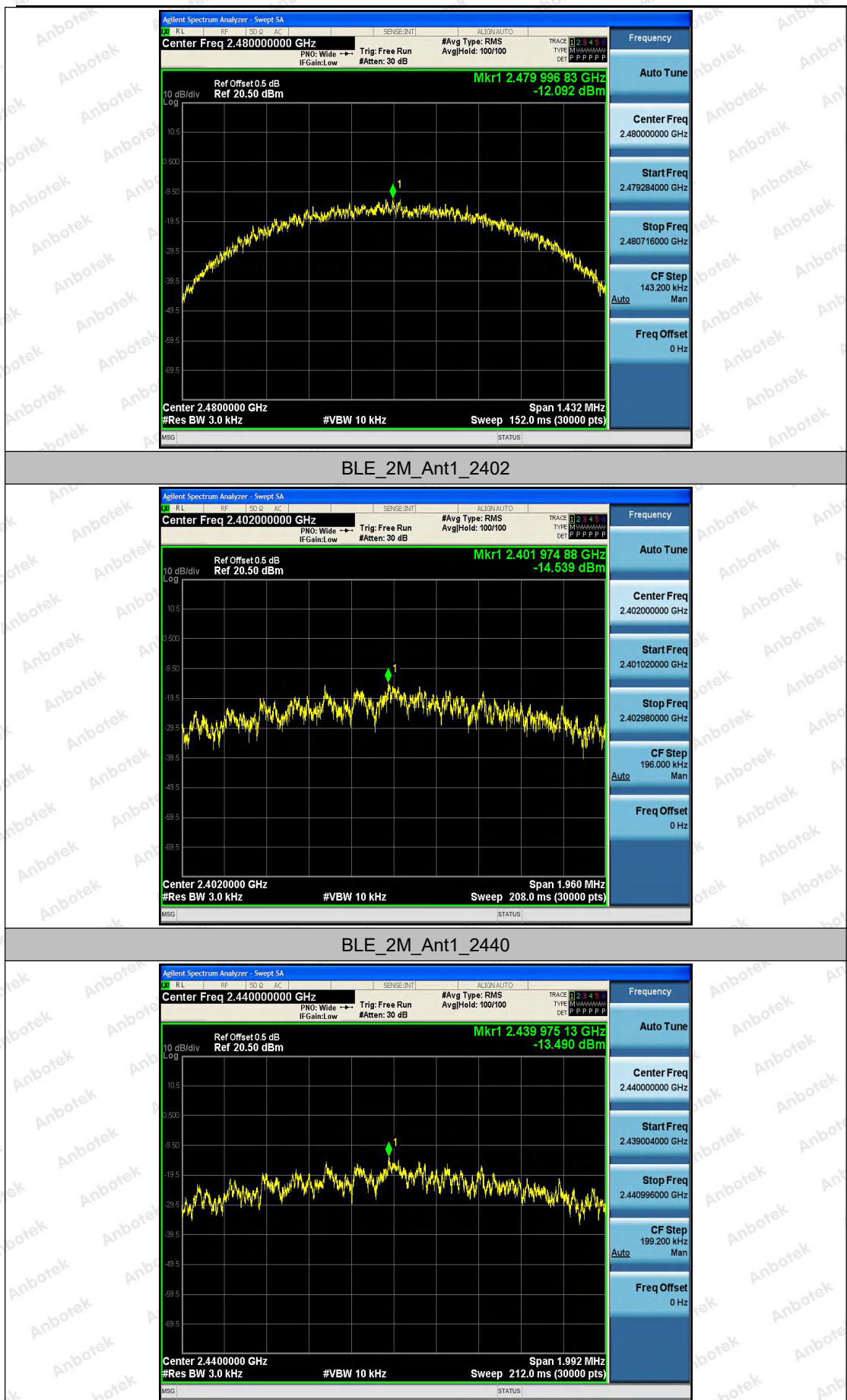


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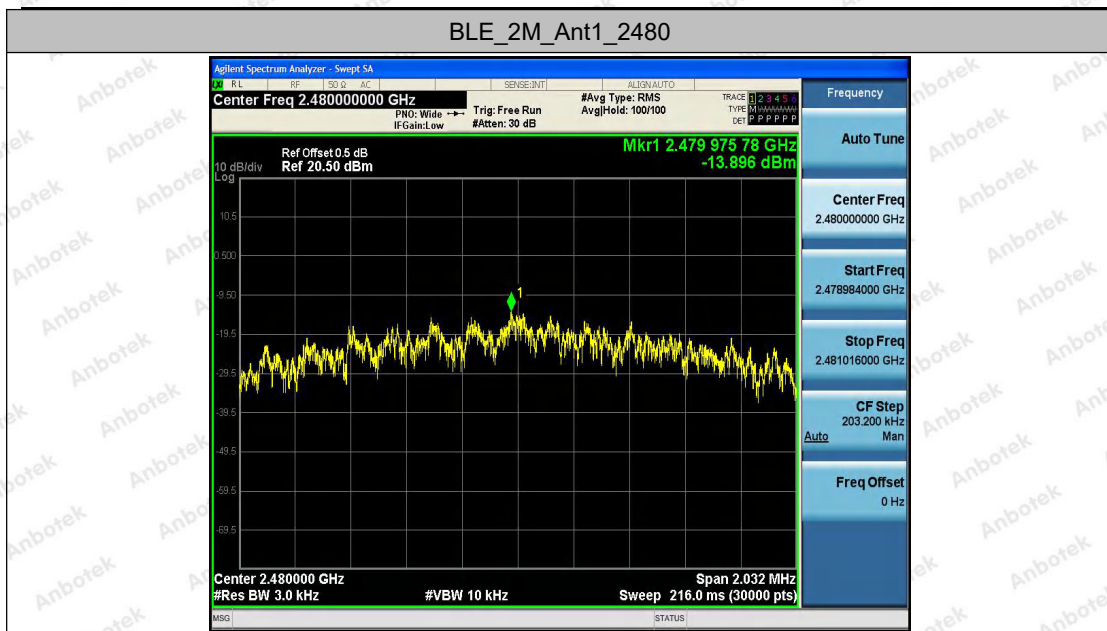


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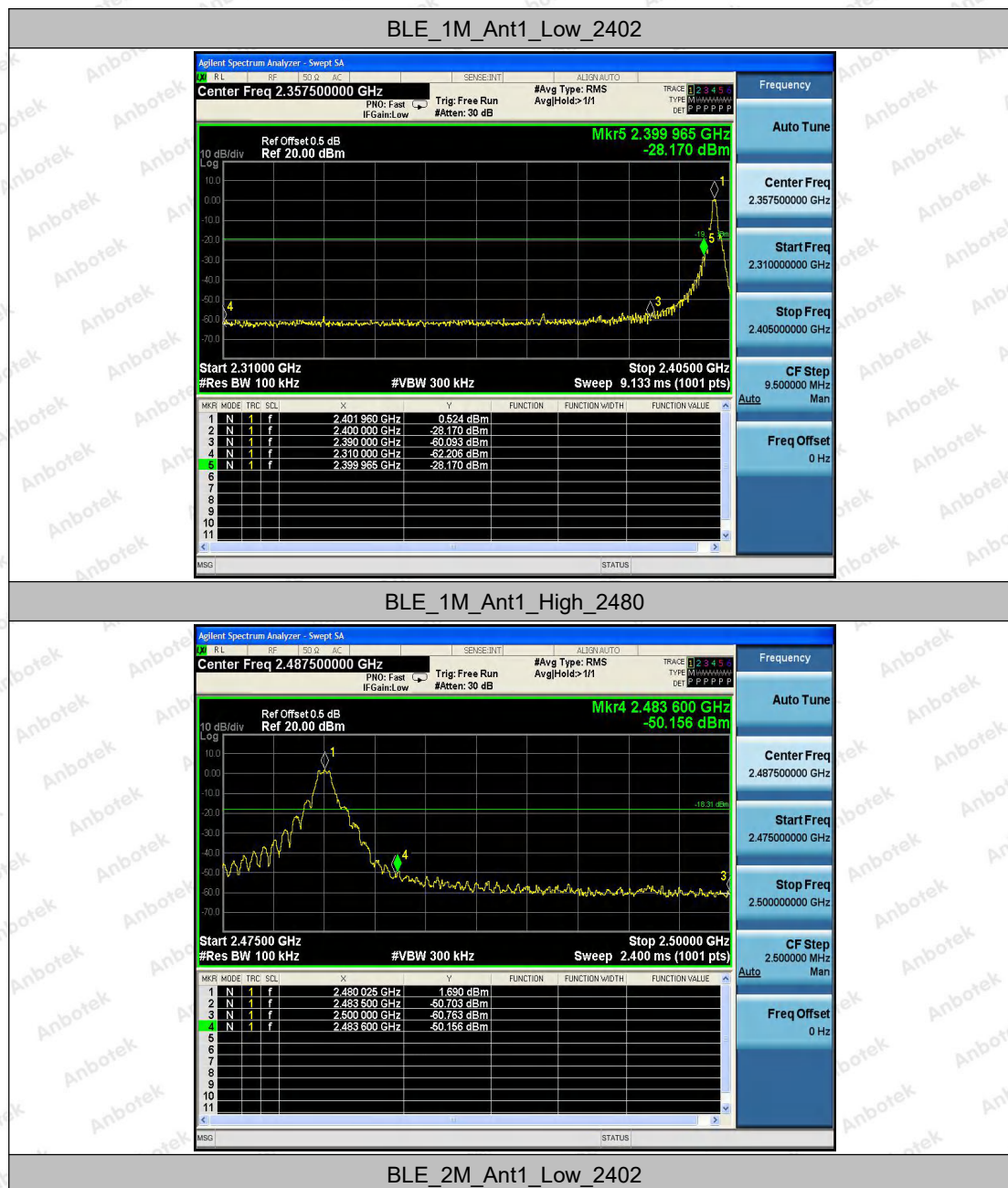
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.52	-28.17	≤-19.48	PASS
		High	2480	1.69	-50.16	≤-18.31	PASS
BLE_2M	Ant1	Low	2402	0.47	-27.57	≤-19.53	PASS
		High	2480	1.59	-49.16	≤-18.41	PASS

Test Graphs

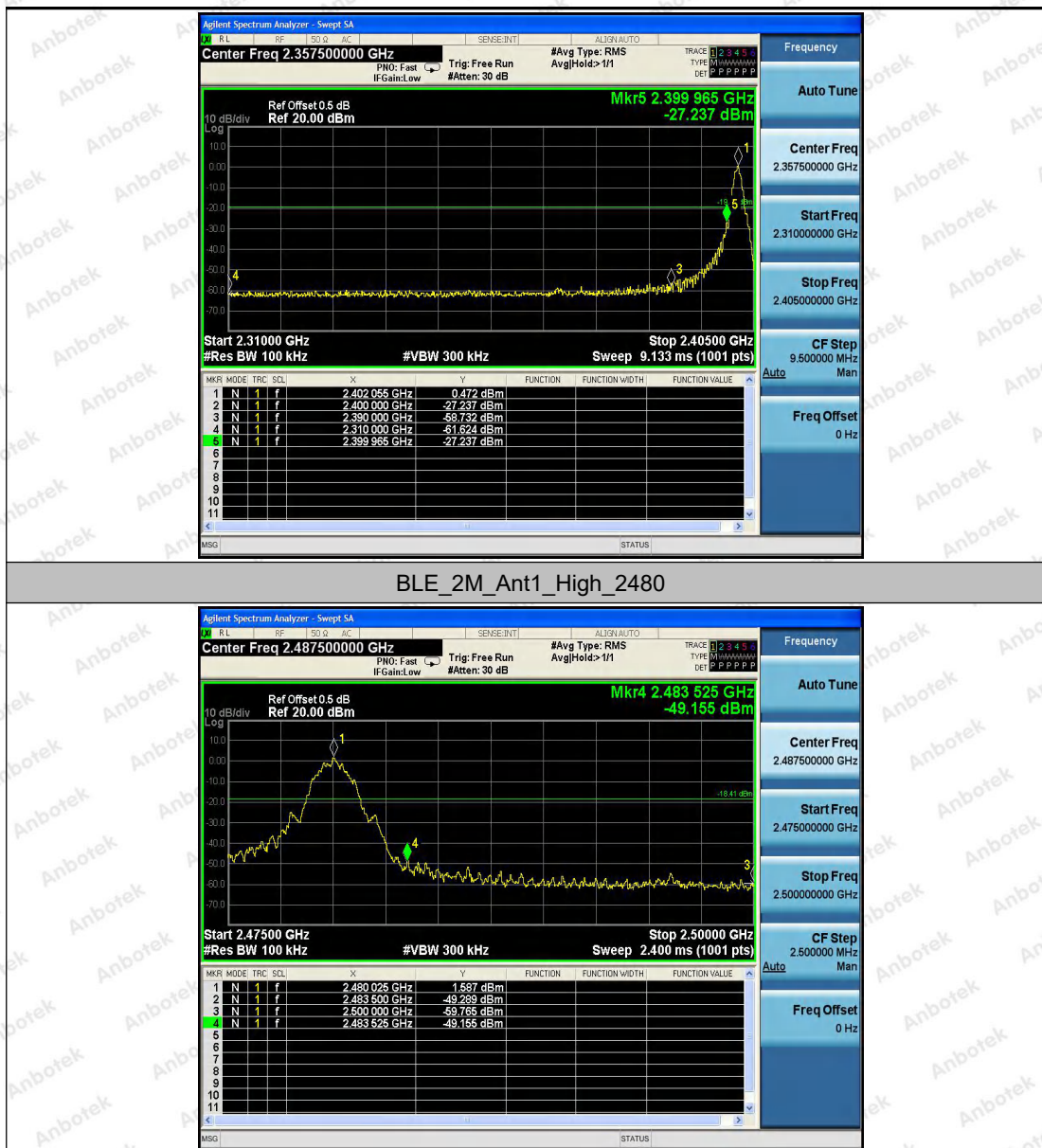


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Appendix F: Conducted Spurious Emission

Test Result

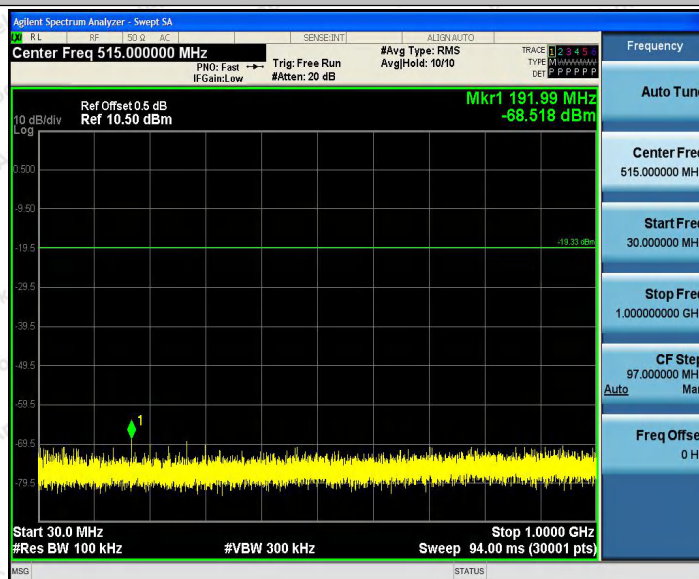
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-68.52	≤-19.33	PASS
			1000~26500	0.68	-22.17	≤-19.33	PASS
		2440	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-67.86	≤-18.59	PASS
			1000~26500	1.42	-21.37	≤-18.59	PASS
		2480	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-68.44	≤-18.27	PASS
			1000~26500	1.73	-19.74	≤-18.27	PASS
BLE_2M	Ant1	2402	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-68.82	≤-19.42	PASS
			1000~26500	0.58	-26.64	≤-19.42	PASS
		2440	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-68.96	≤-18.63	PASS
			1000~26500	1.37	-21.37	≤-18.63	PASS
		2480	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-68.86	≤-18.22	PASS
			1000~26500	1.78	-20	≤-18.22	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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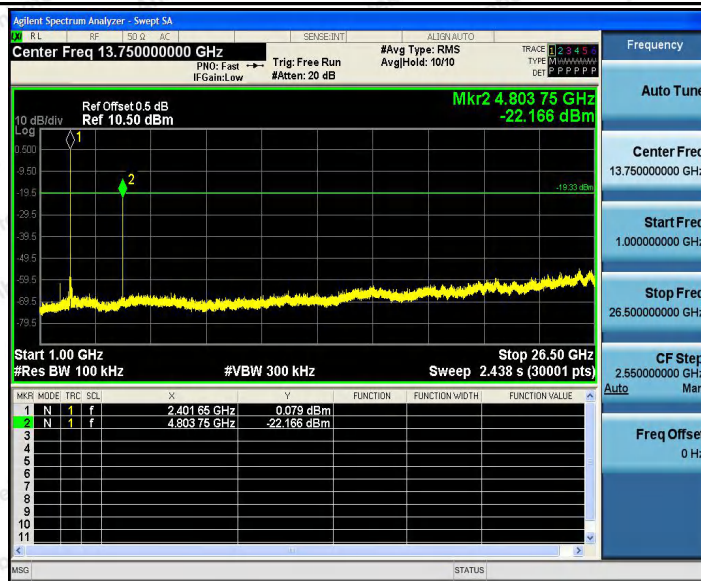
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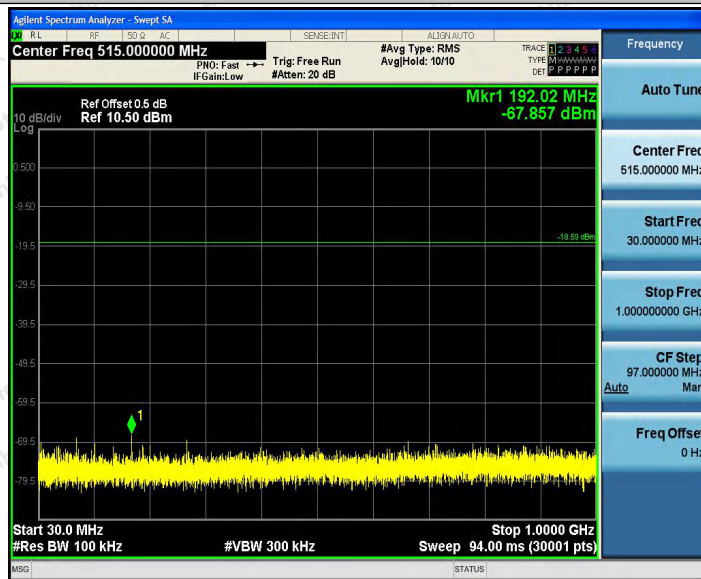
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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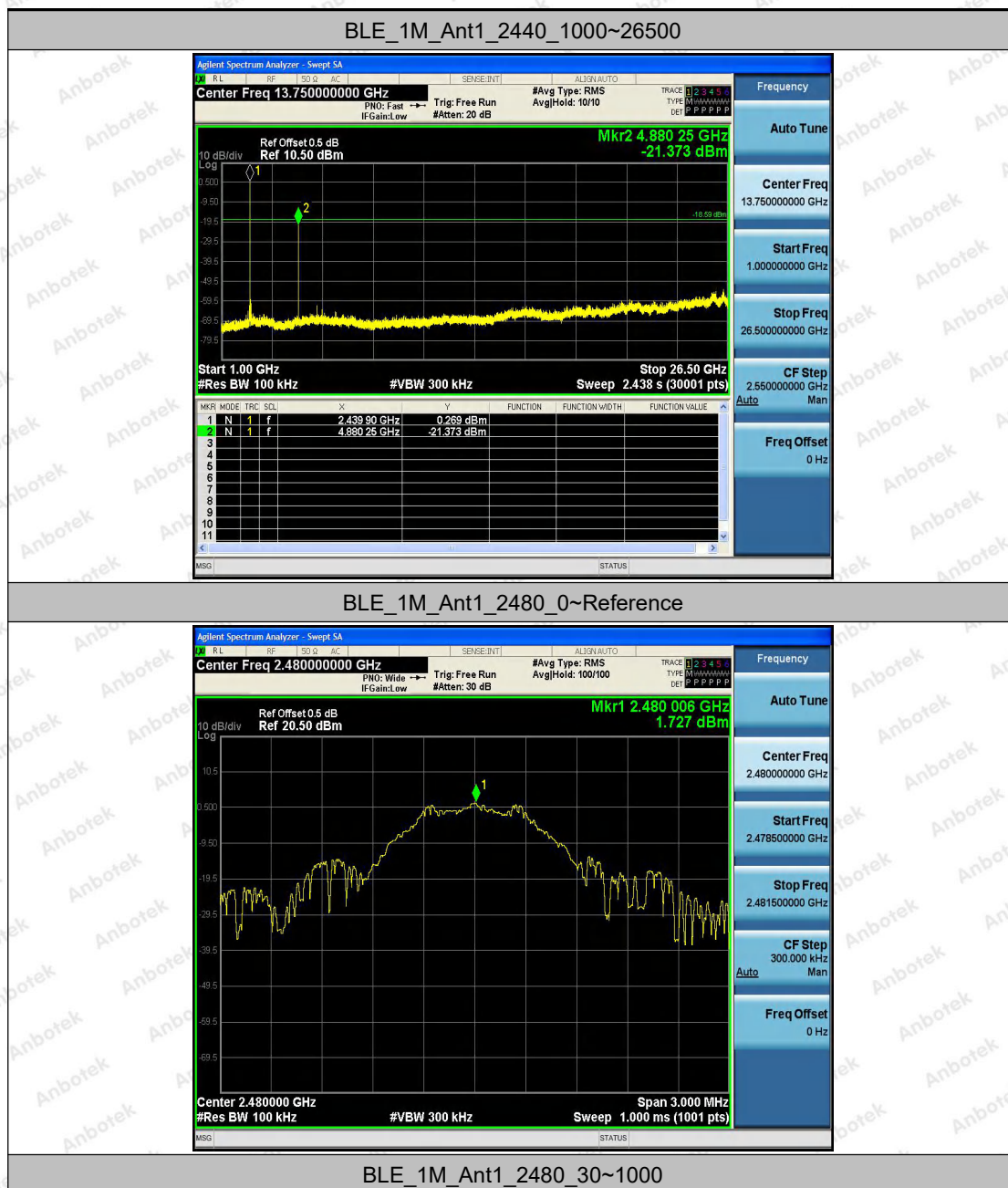
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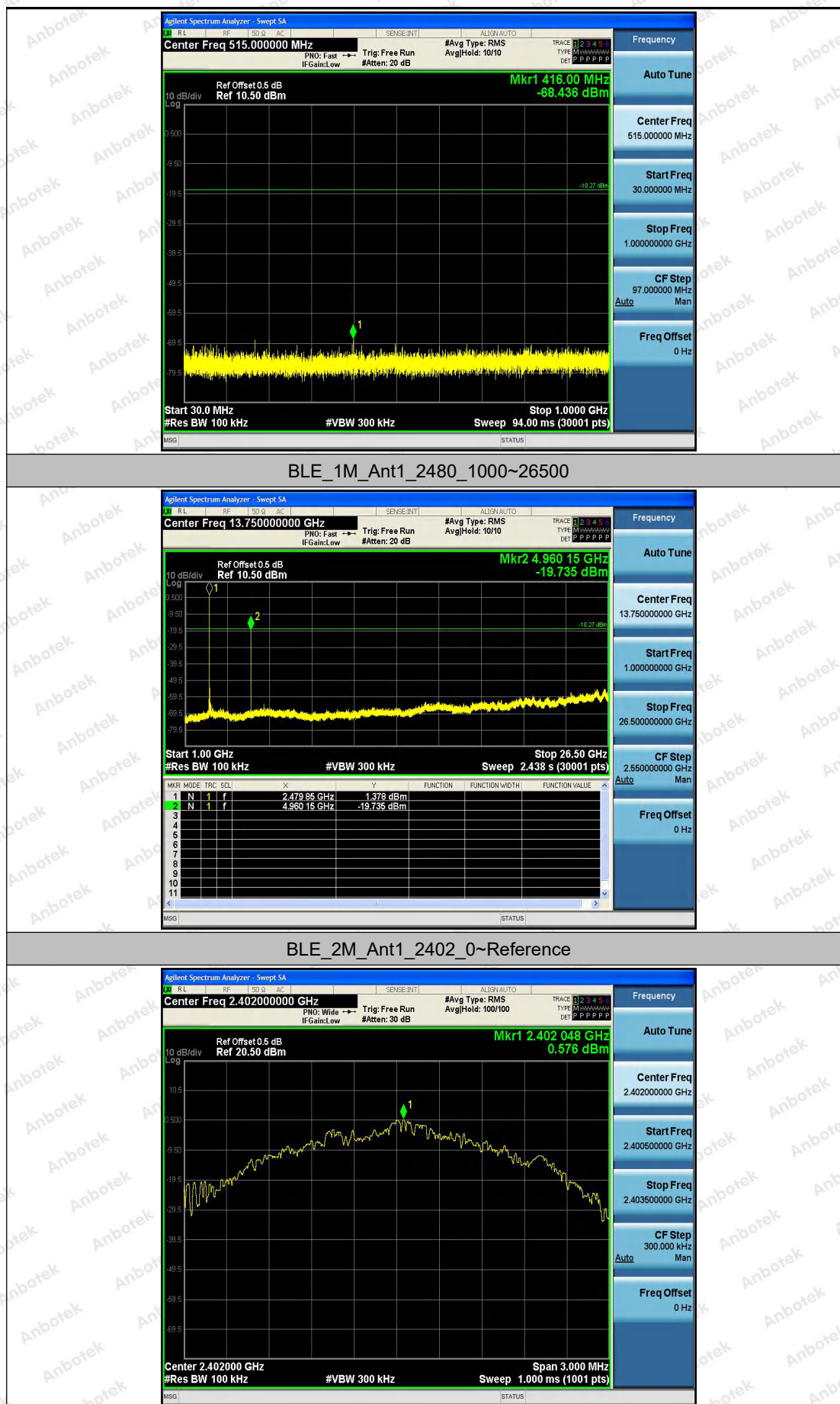


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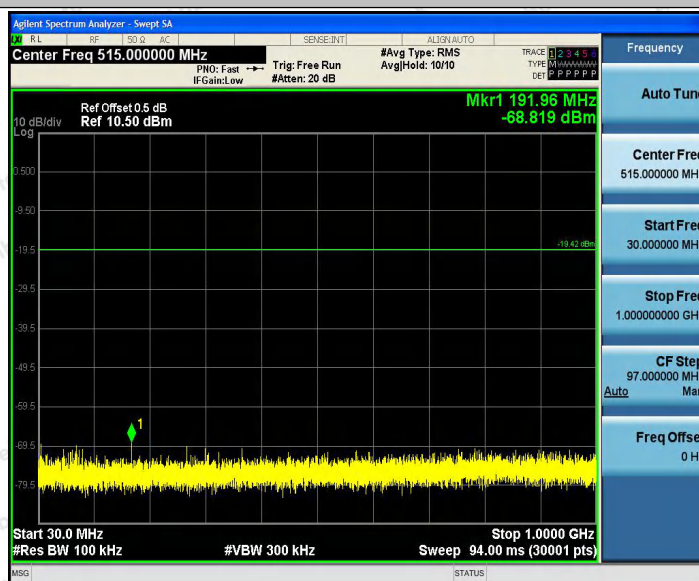
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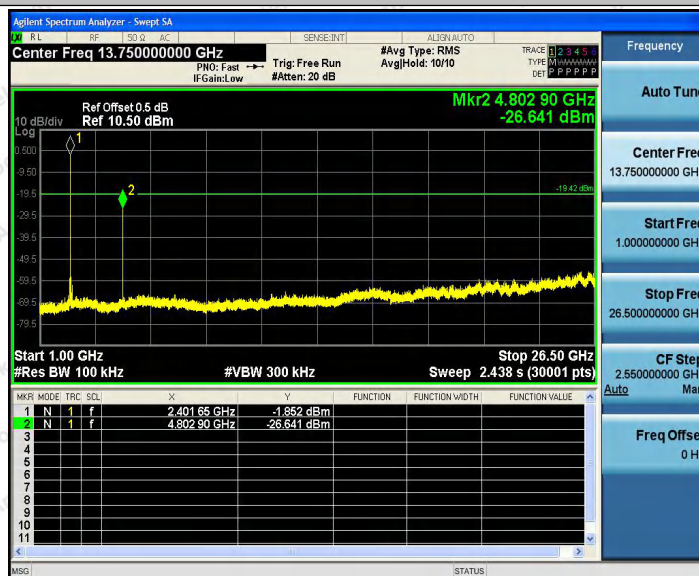
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



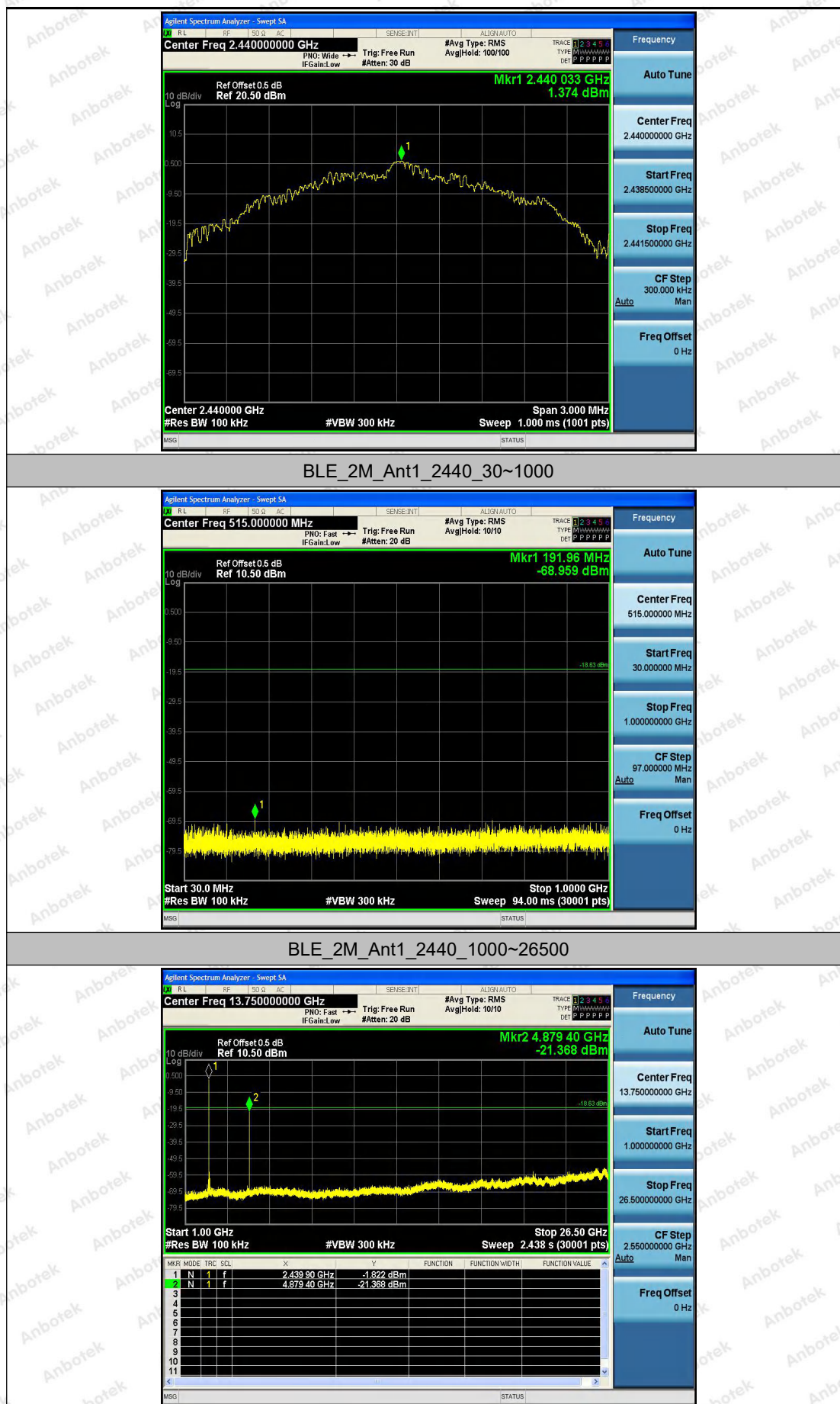
BLE_2M_Ant1_2440_0~Reference

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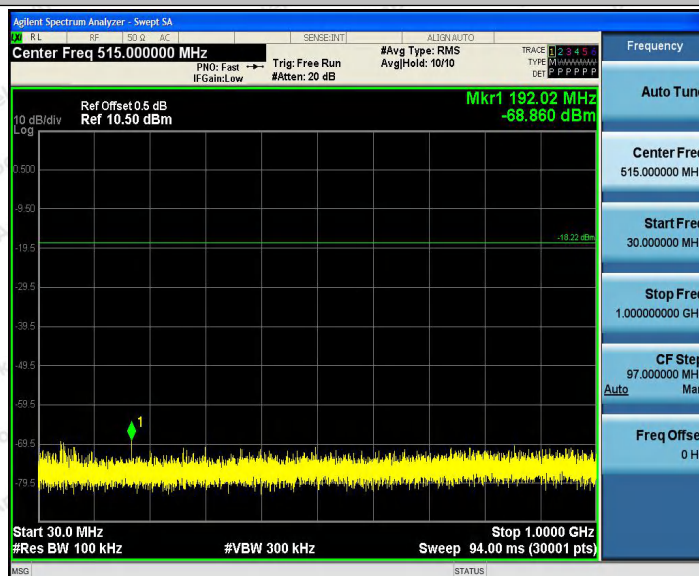
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



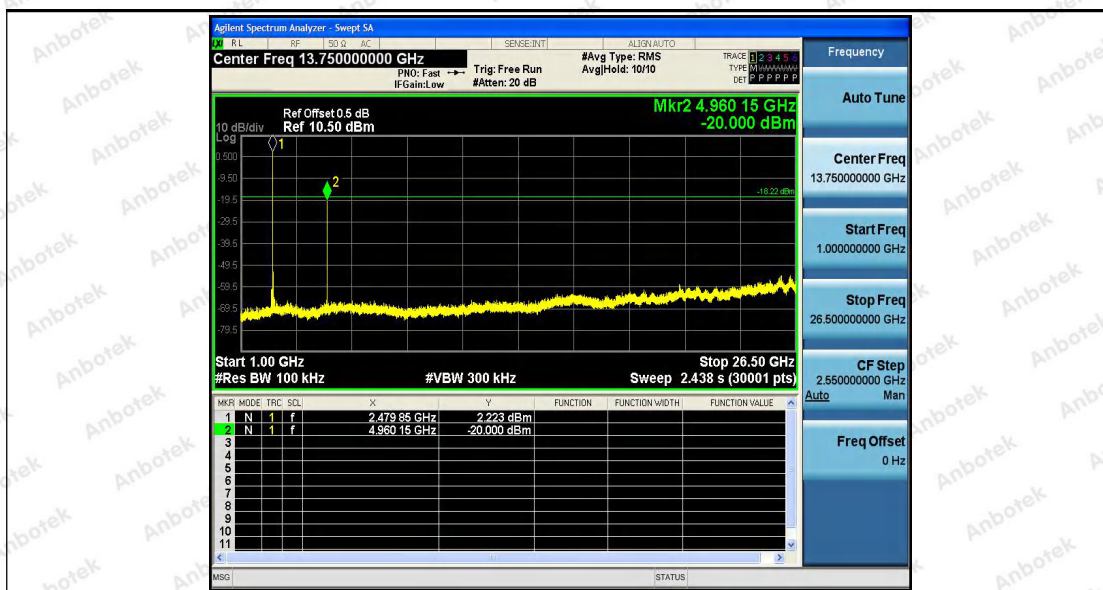
BLE_2M_Ant1_2480_1000~26500

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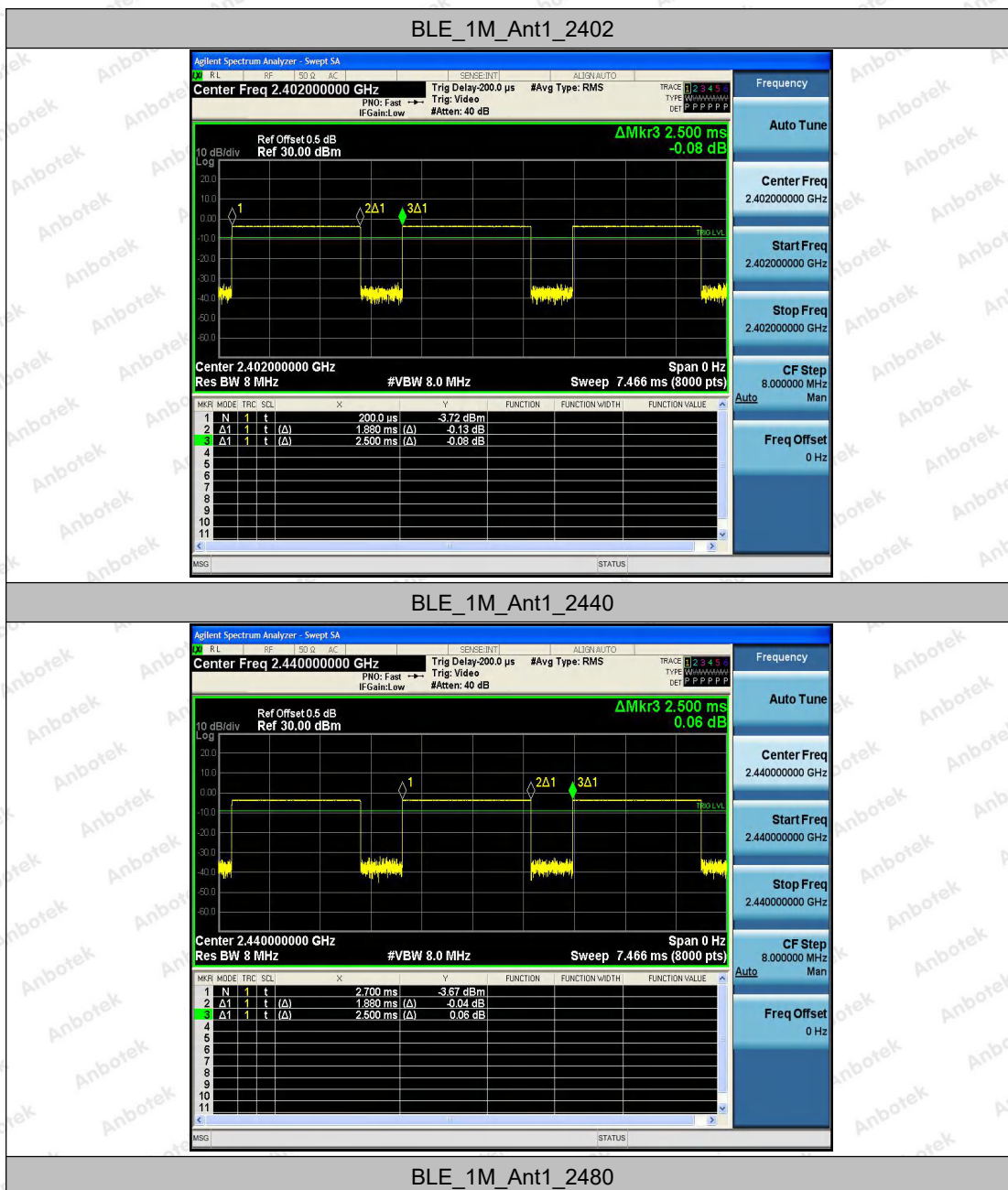
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	1.88	2.50	0.752 0	75.20	1.24	---	PASS
		2440	1.88	2.50	0.752 0	75.20	1.24	---	PASS
		2480	1.88	2.50	0.752 0	75.20	1.24	---	PASS
BLE_2M	Ant1	2402	0.95	1.25	0.760 0	76.00	1.19	---	PASS
		2440	0.95	1.25	0.760 0	76.00	1.19	---	PASS
		2480	0.95	1.25	0.760 0	76.00	1.19	---	PASS

Test Graphs

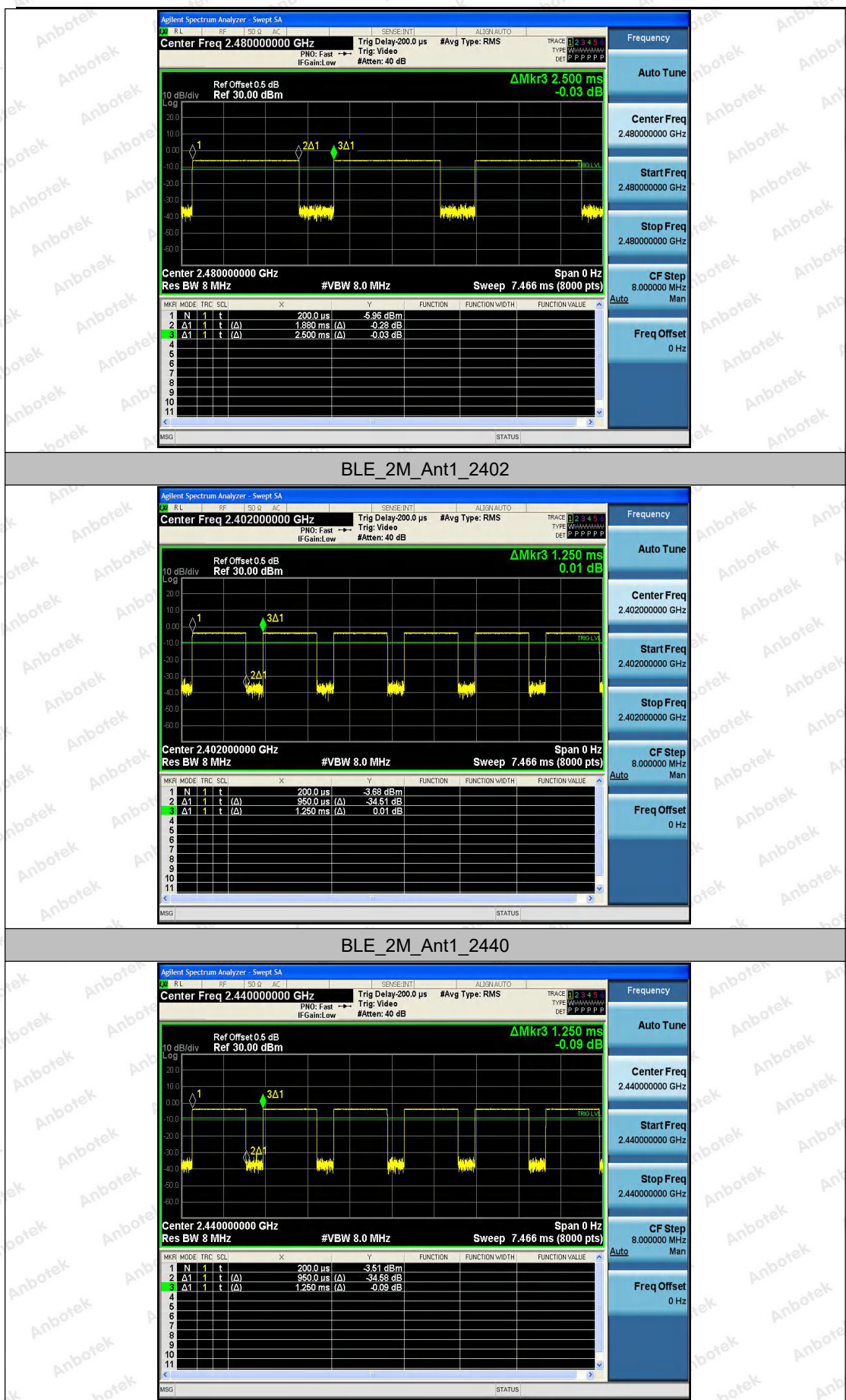


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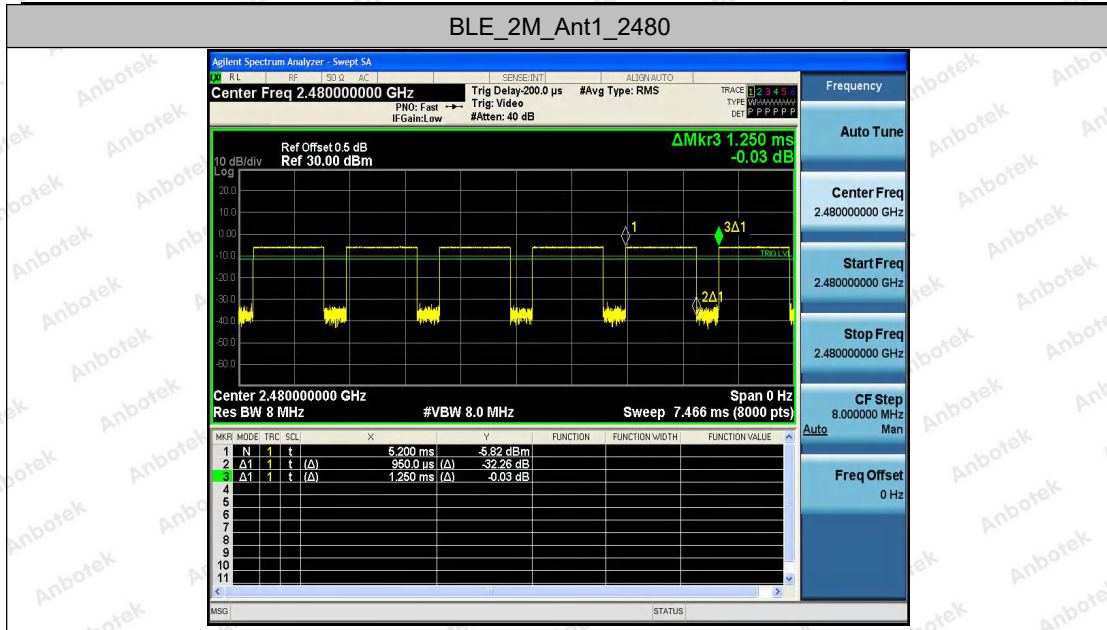


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