

Appendix Test Data

Report No.:	18220WC20131001	Test Sample No.:	1-2-2
Start Test Date:	2022.6.20	Finish Test Date:	2022.6.28
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
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	0.728	2401.664	2402.392	≥0.5	PASS
		2440	0.712	2439.640	2440.352	≥0.5	PASS
		2480	0.708	2479.644	2480.352	≥0.5	PASS
BLE_2M	Ant1	2402	0.996	2401.504	2402.500	≥0.5	PASS
		2440	1.012	2439.496	2440.508	≥0.5	PASS
		2480	1.004	2479.480	2480.484	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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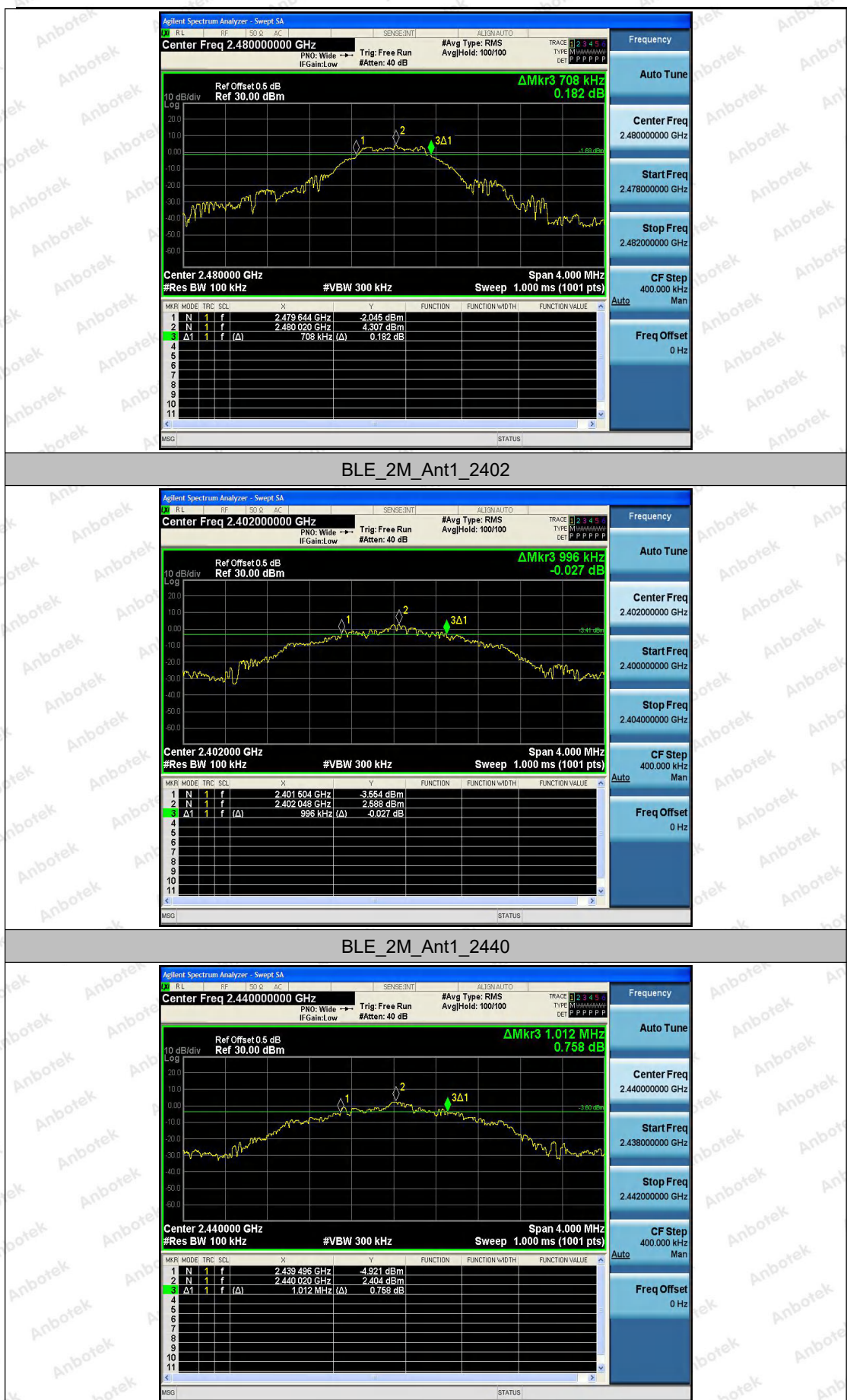
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.7300	2401.074	2402.804	---	PASS
		2440	1.5159	2439.221	2440.736	---	PASS
		2480	1.1513	2479.421	2480.573	---	PASS
BLE_2M	Ant1	2402	2.2415	2400.897	2403.138	---	PASS
		2440	2.2597	2438.879	2441.139	---	PASS
		2480	2.2554	2478.878	2481.133	---	PASS

Test Graphs



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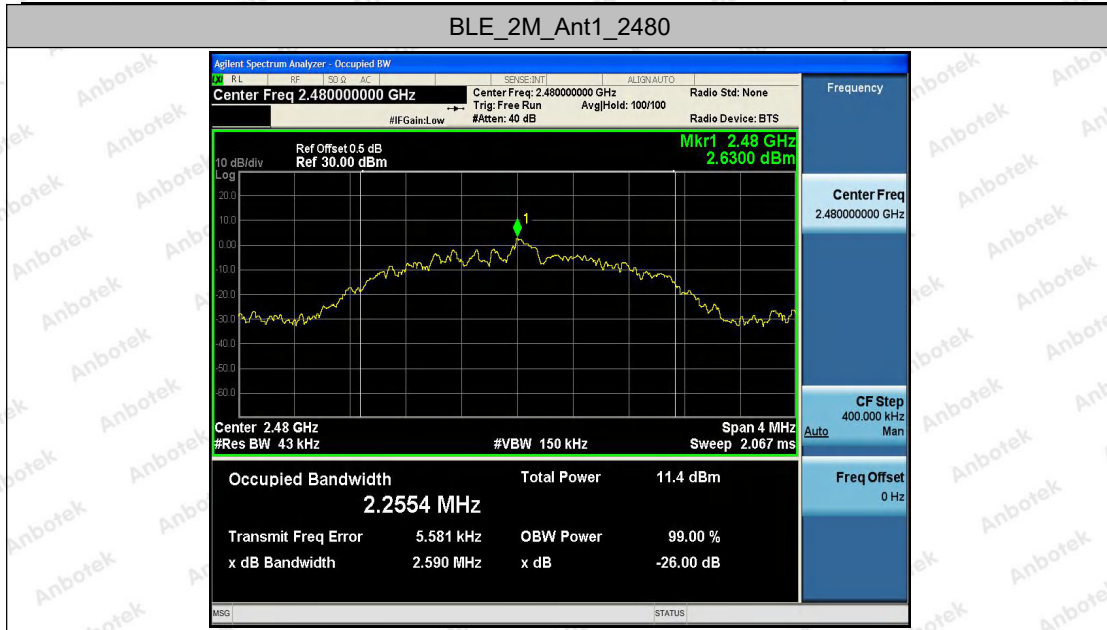


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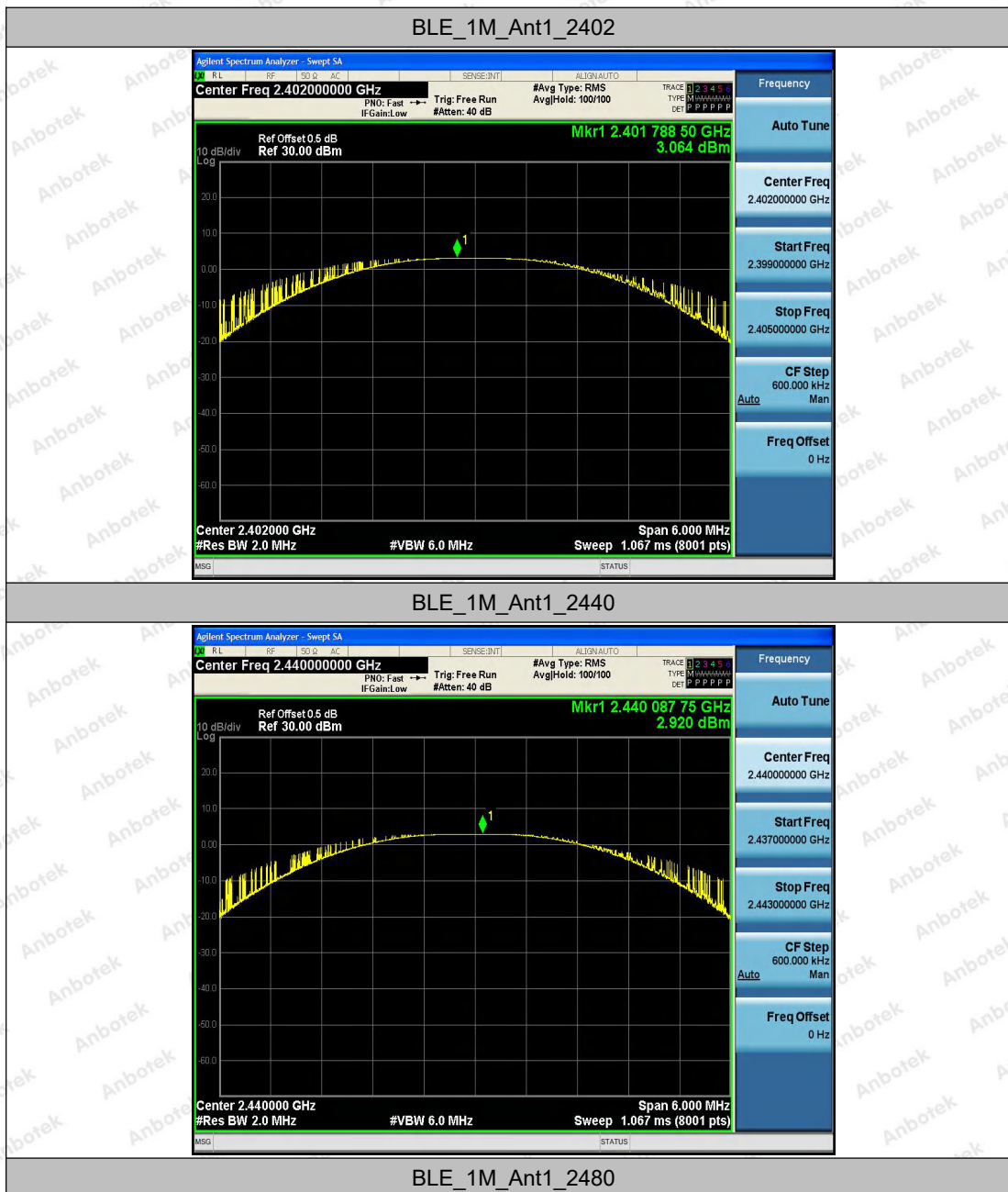
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.06	≤30	PASS
		2440	2.92	≤30	PASS
		2480	4.54	≤30	PASS
BLE_2M	Ant1	2402	3.12	≤30	PASS
		2440	3.01	≤30	PASS
		2480	4.6	≤30	PASS

Test Graphs

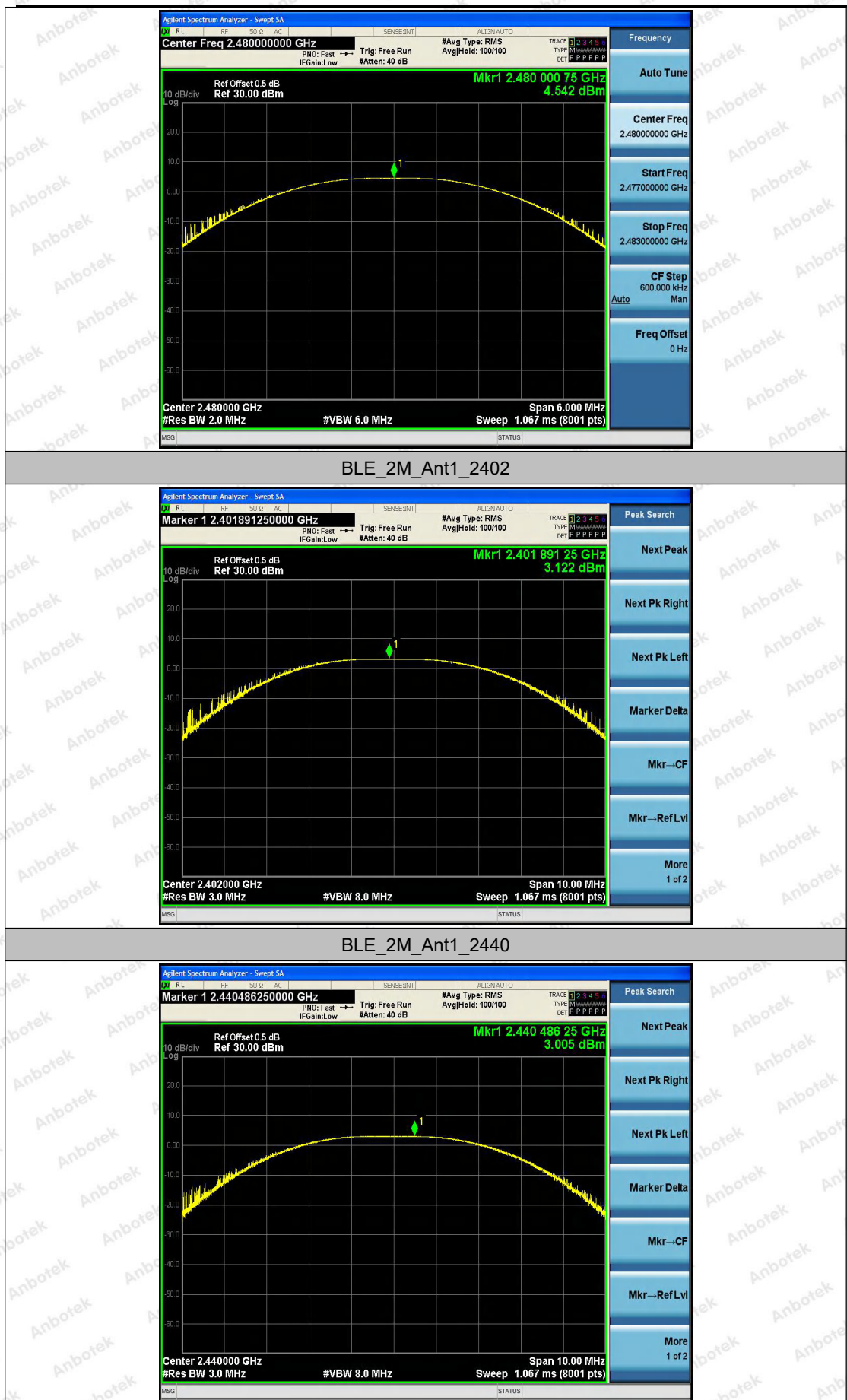


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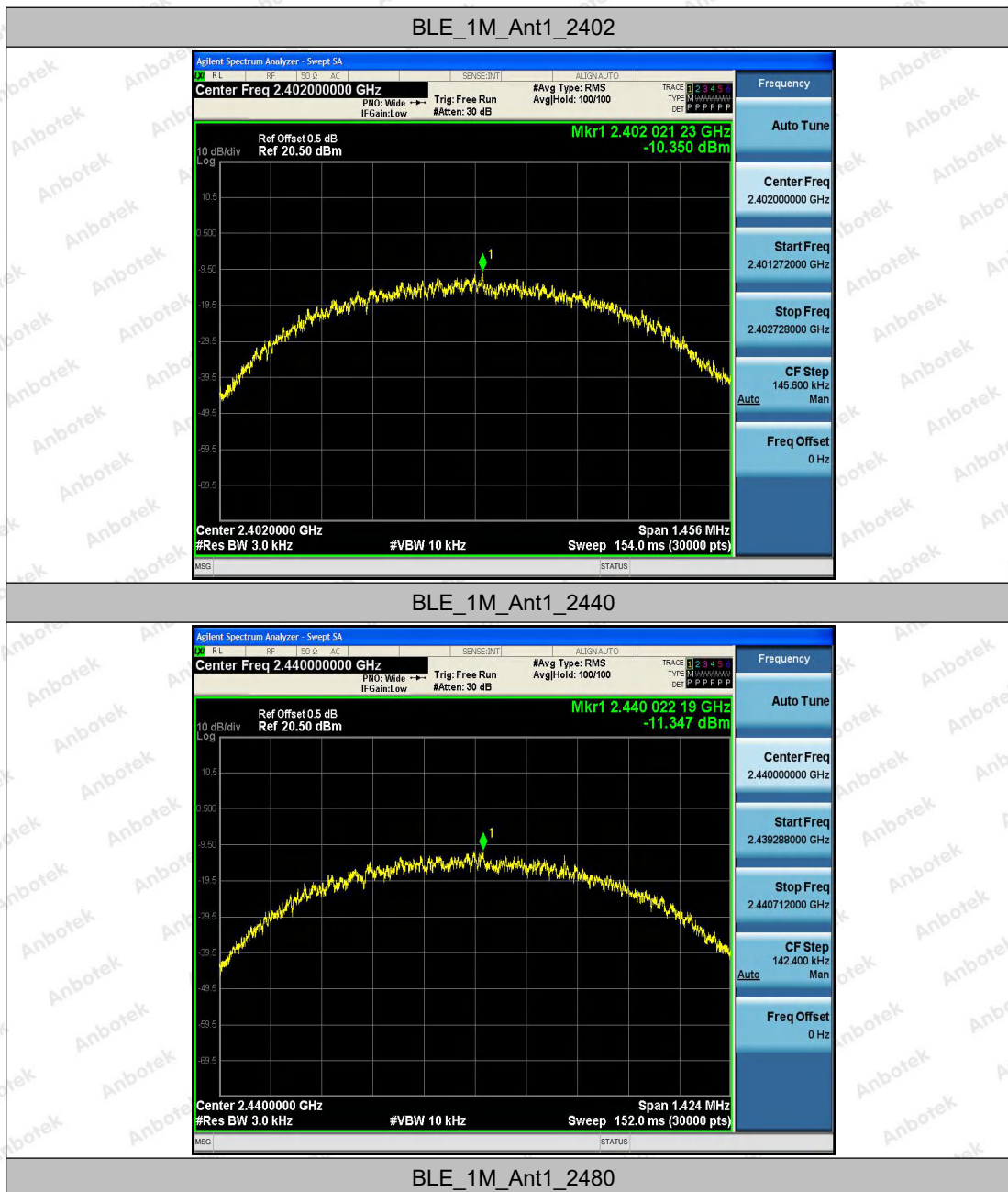
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.35	≤8	PASS
		2440	-11.35	≤8	PASS
		2480	-9.78	≤8	PASS
BLE_2M	Ant1	2402	-12.15	≤8	PASS
		2440	-12.69	≤8	PASS
		2480	-11.2	≤8	PASS

Test Graphs



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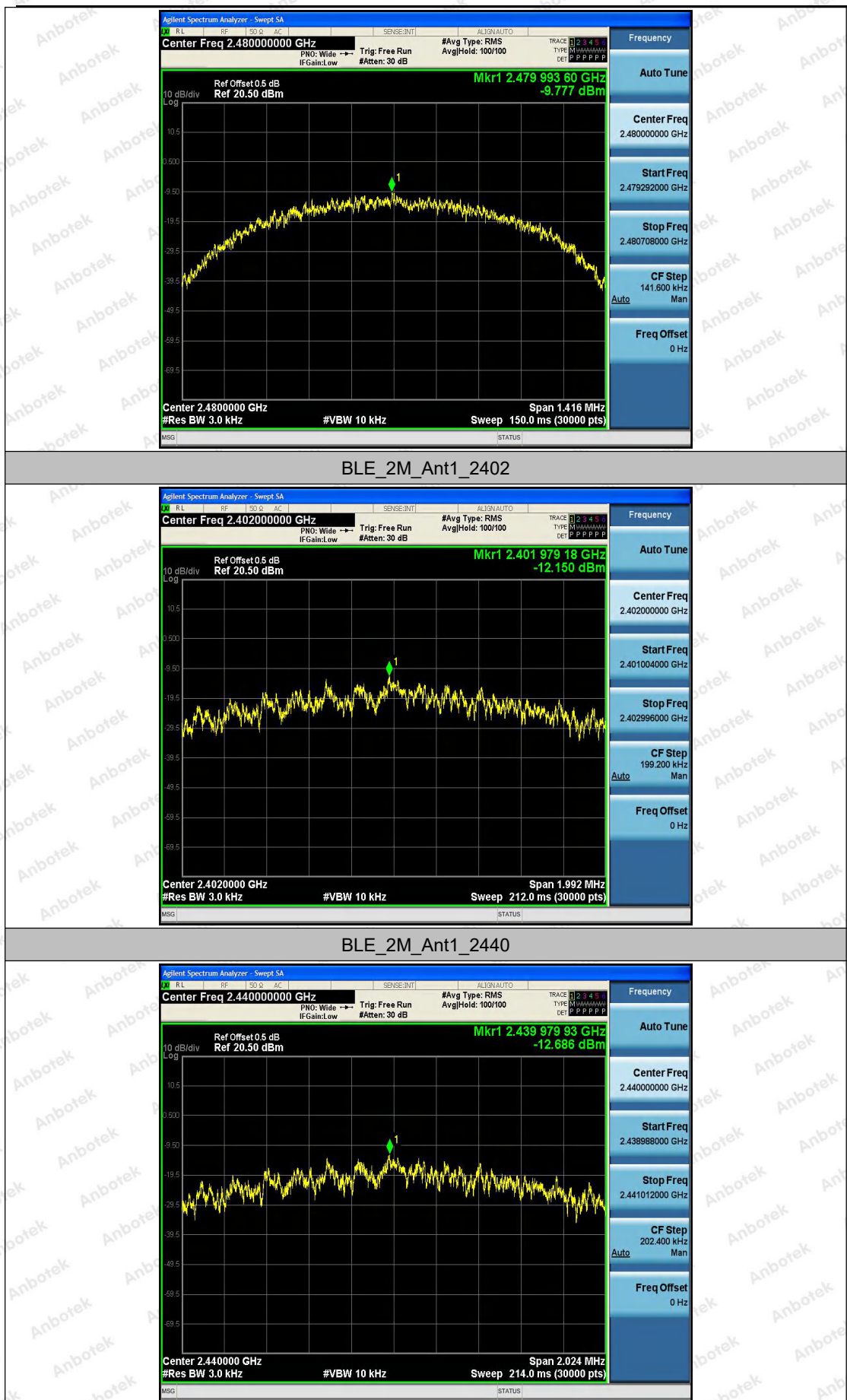
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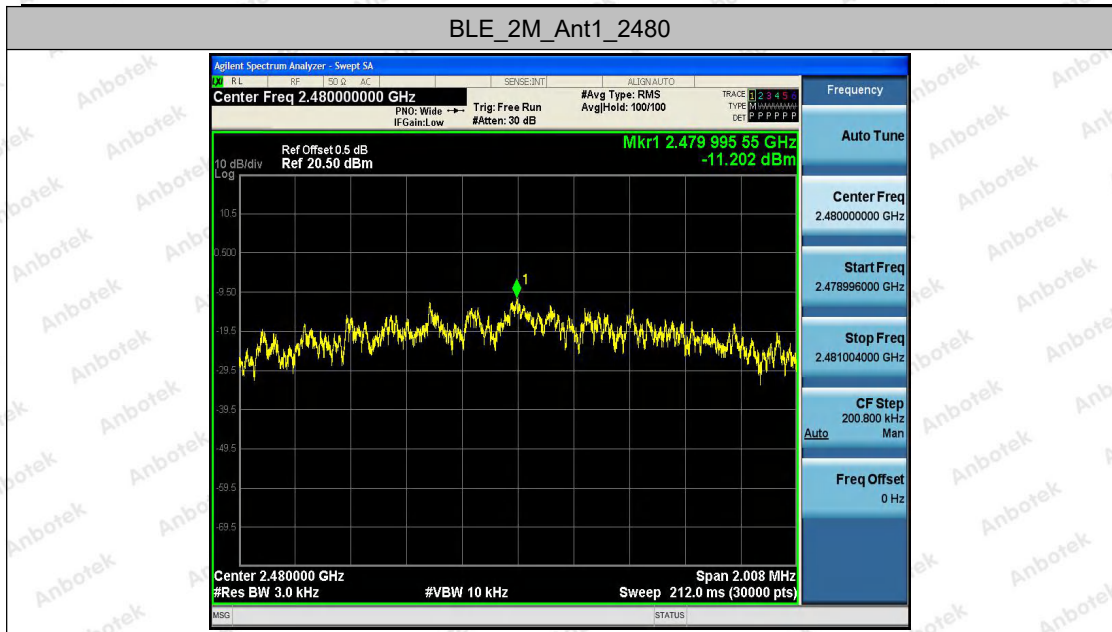


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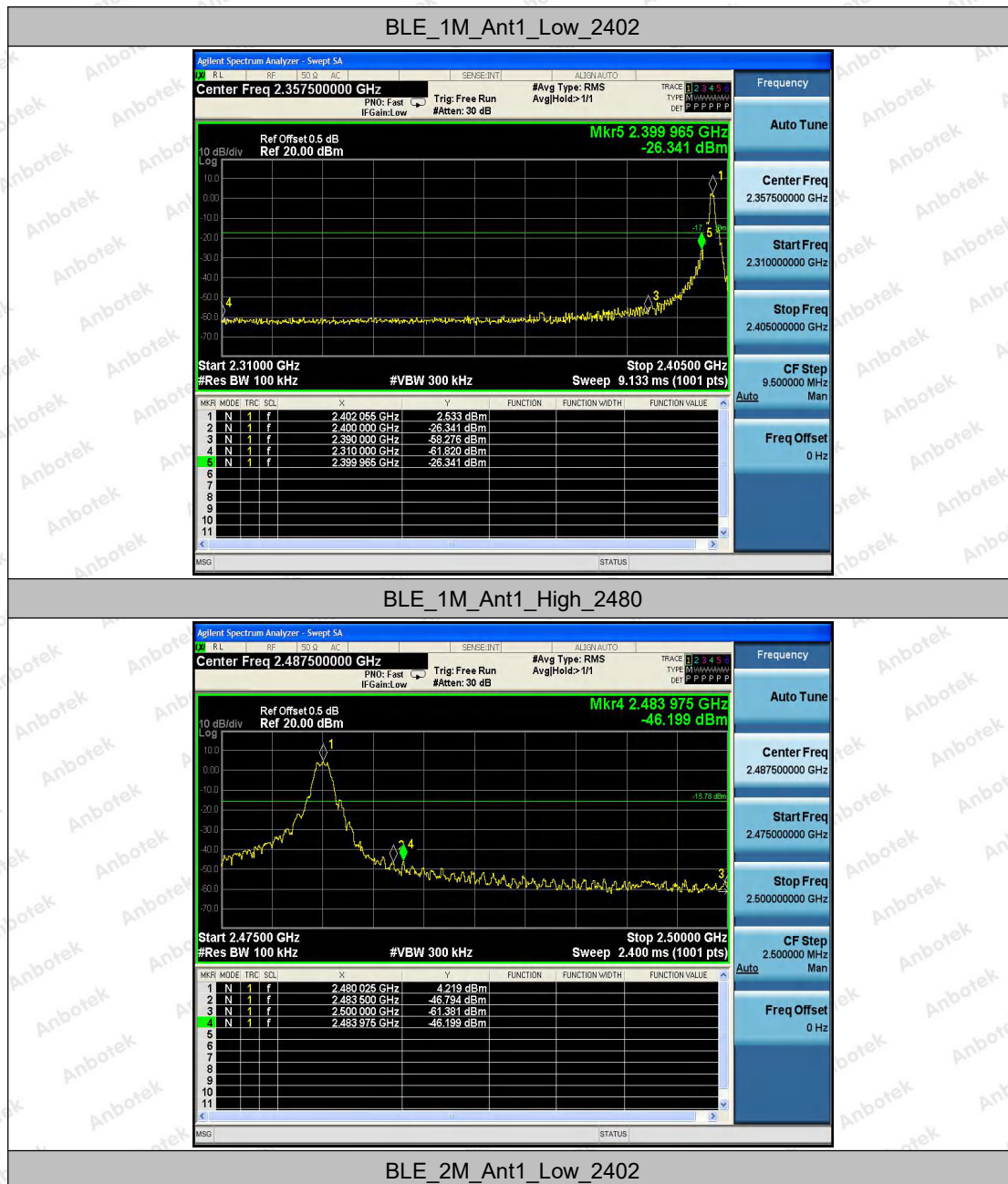
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.43	-26.34	≤ -17.57	PASS
		High	2480	4.22	-46.2	≤ -15.78	PASS
BLE_2M	Ant1	Low	2402	2.46	-26.07	≤ -17.54	PASS
		High	2480	4.11	-48.43	≤ -15.89	PASS

Test Graphs

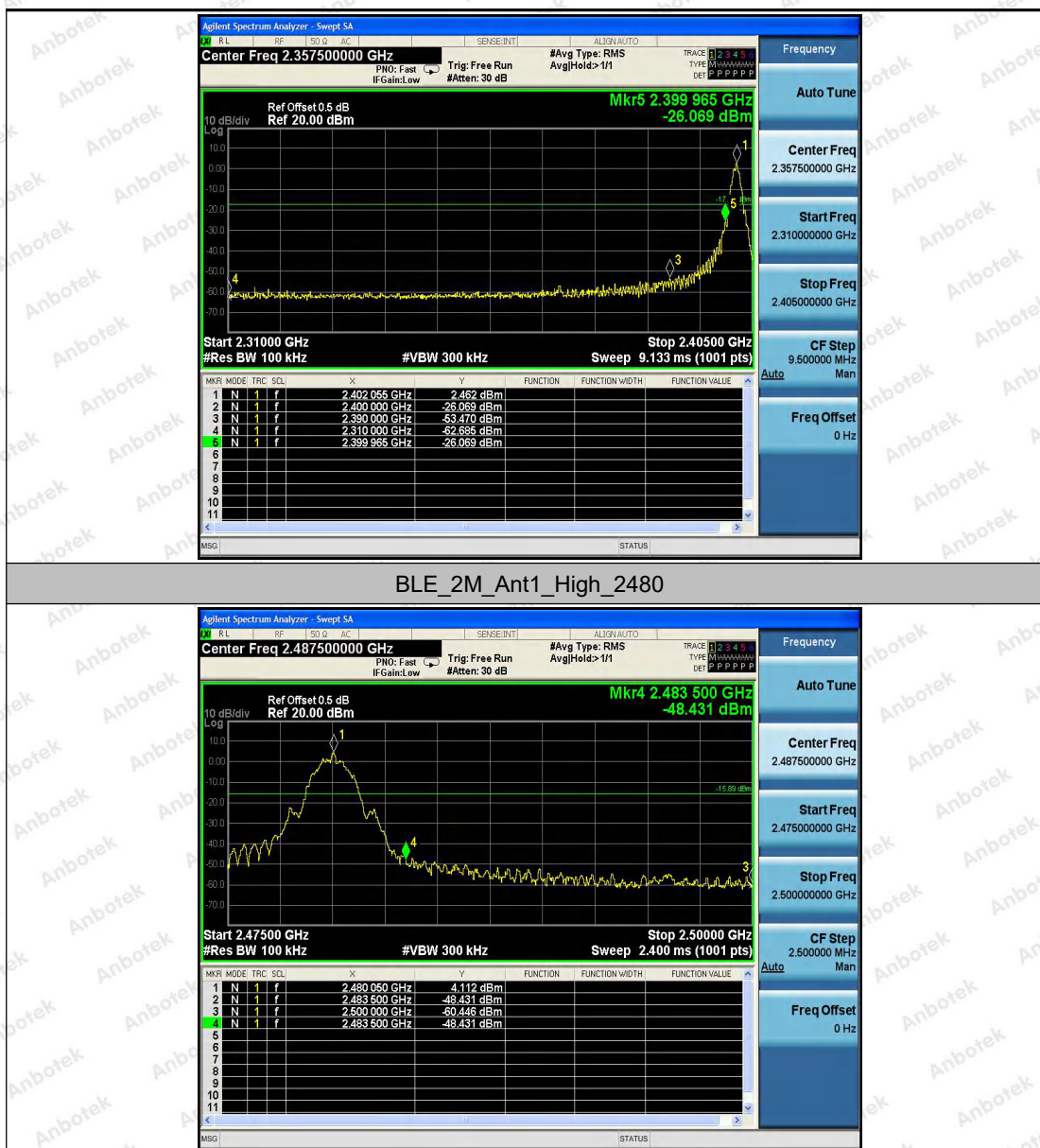


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Appendix F: Conducted Spurious Emission

Test Result

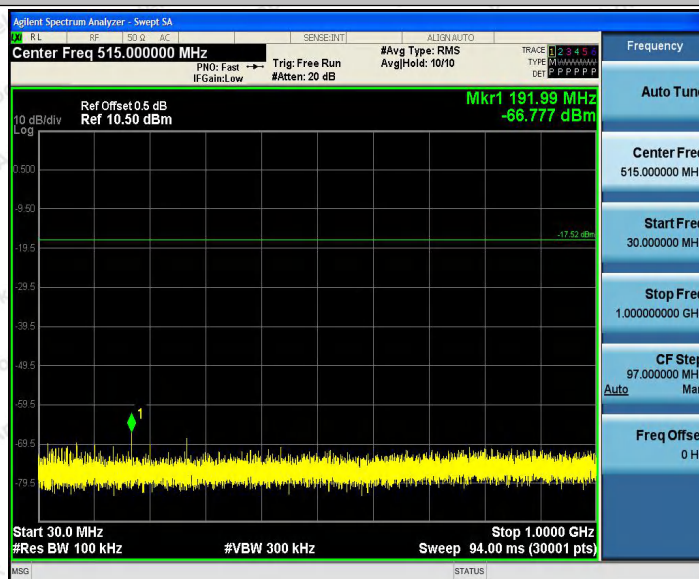
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-66.78	≤-17.52	PASS
			1000~26500	2.48	-23.73	≤-17.52	PASS
		2440	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-66.82	≤-17.41	PASS
			1000~26500	2.59	-23.47	≤-17.41	PASS
		2480	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-67.87	≤-15.73	PASS
			1000~26500	4.27	-23.94	≤-15.73	PASS
BLE_2M	Ant1	2402	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-68.39	≤-17.32	PASS
			1000~26500	2.68	-23.68	≤-17.32	PASS
		2440	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-67.59	≤-17.41	PASS
			1000~26500	2.59	-26.94	≤-17.41	PASS
		2480	Reference	4.35	4.35	---	PASS
			30~1000	4.35	-67.13	≤-15.65	PASS
			1000~26500	4.35	-22.88	≤-15.65	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



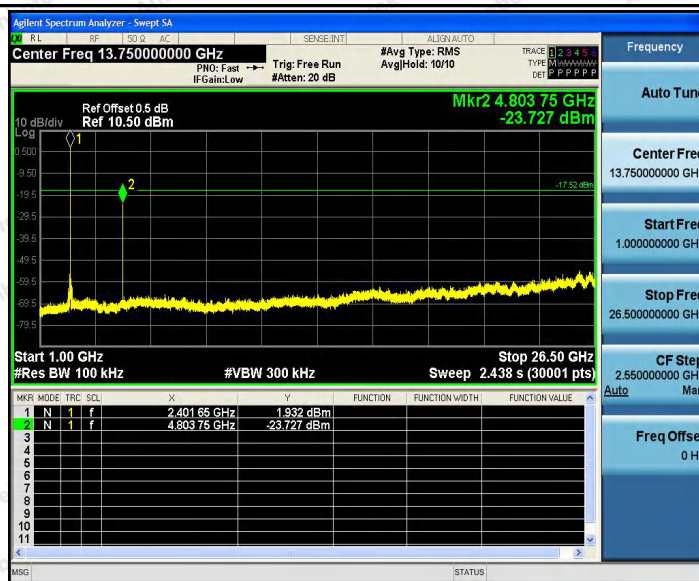
BLE_1M_Ant1_2402_1000~26500

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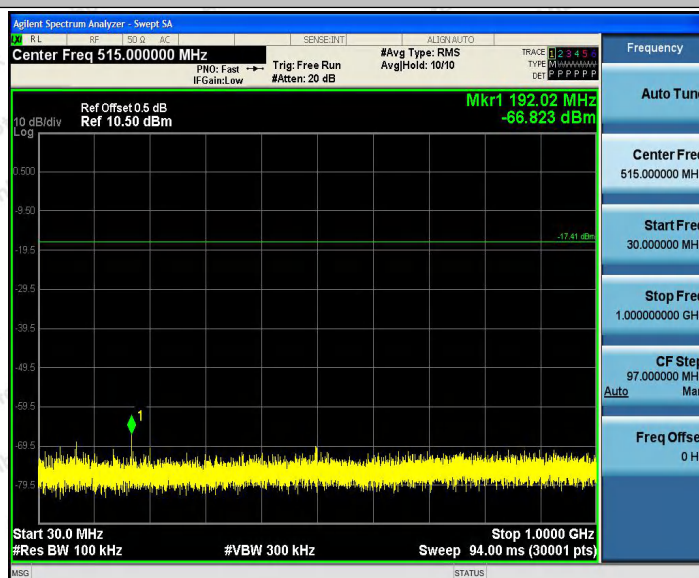
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



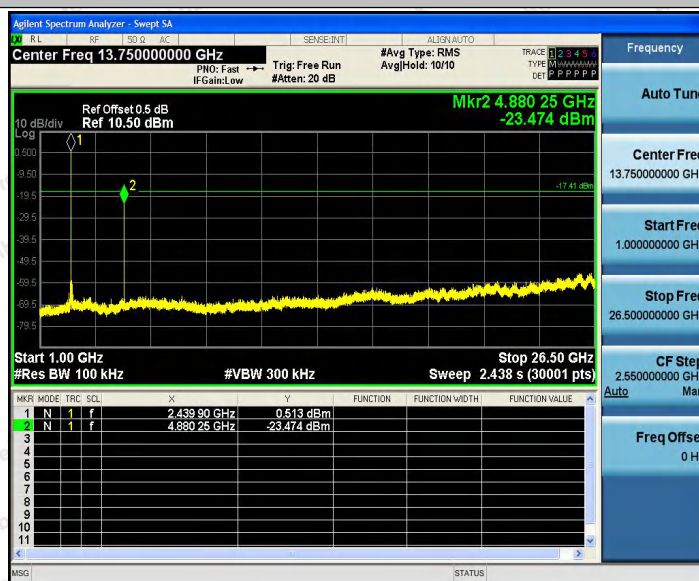
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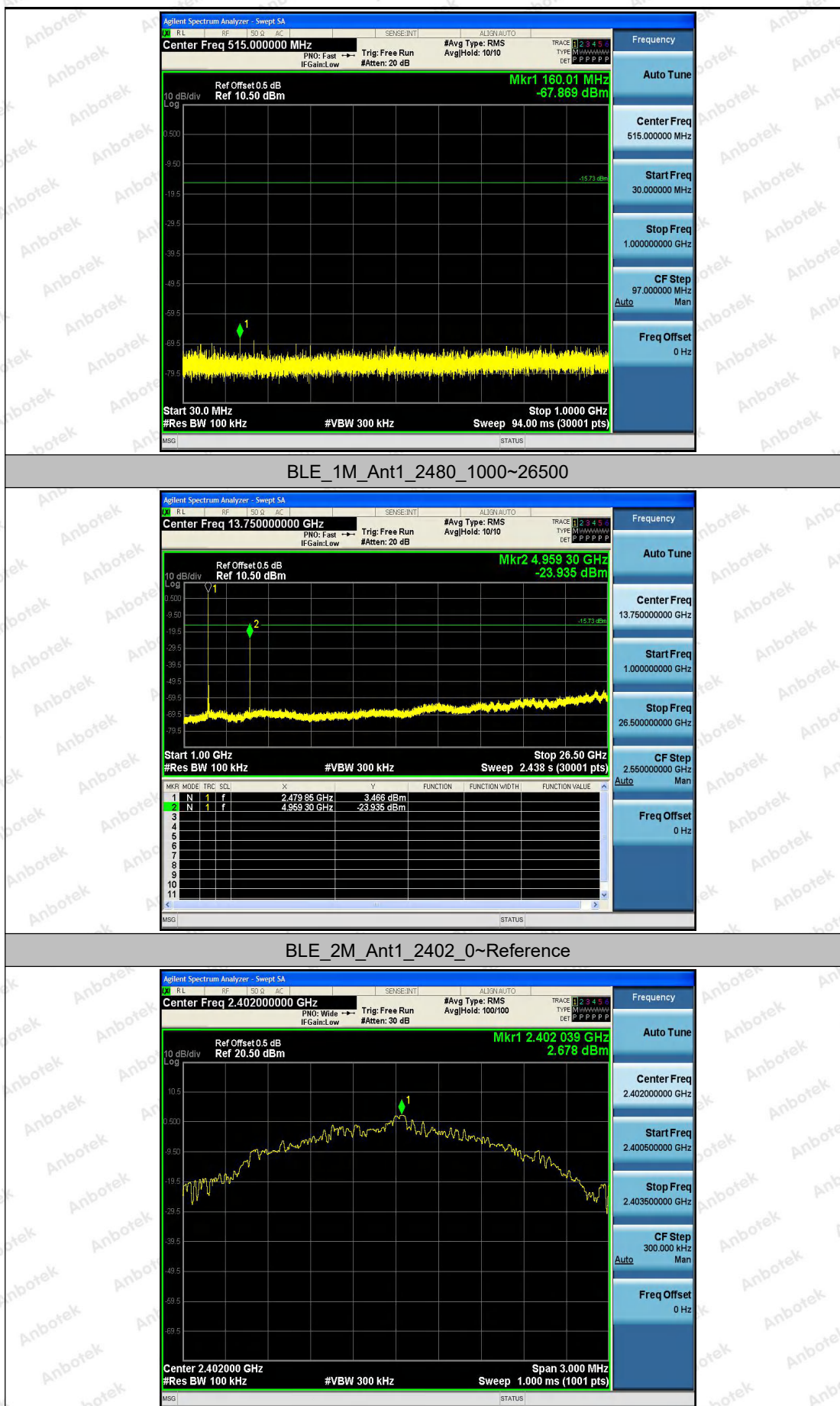
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



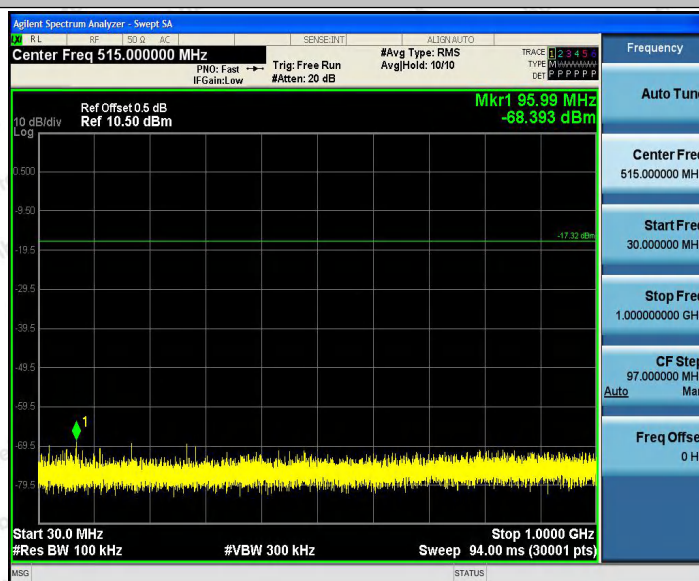
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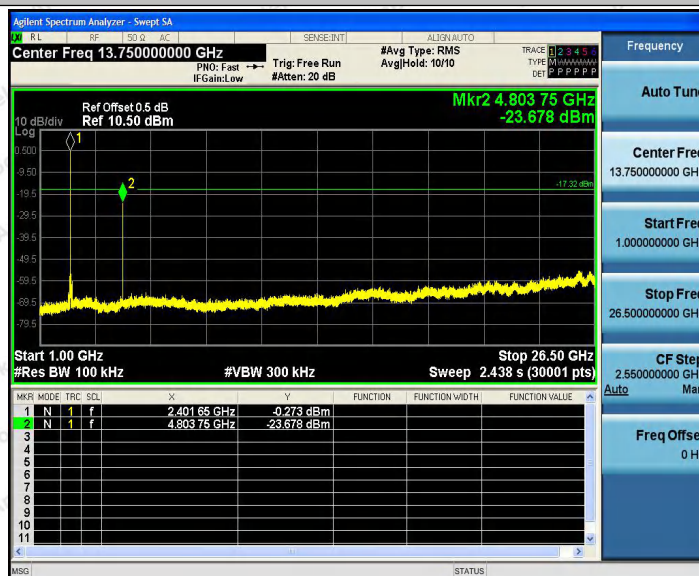
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



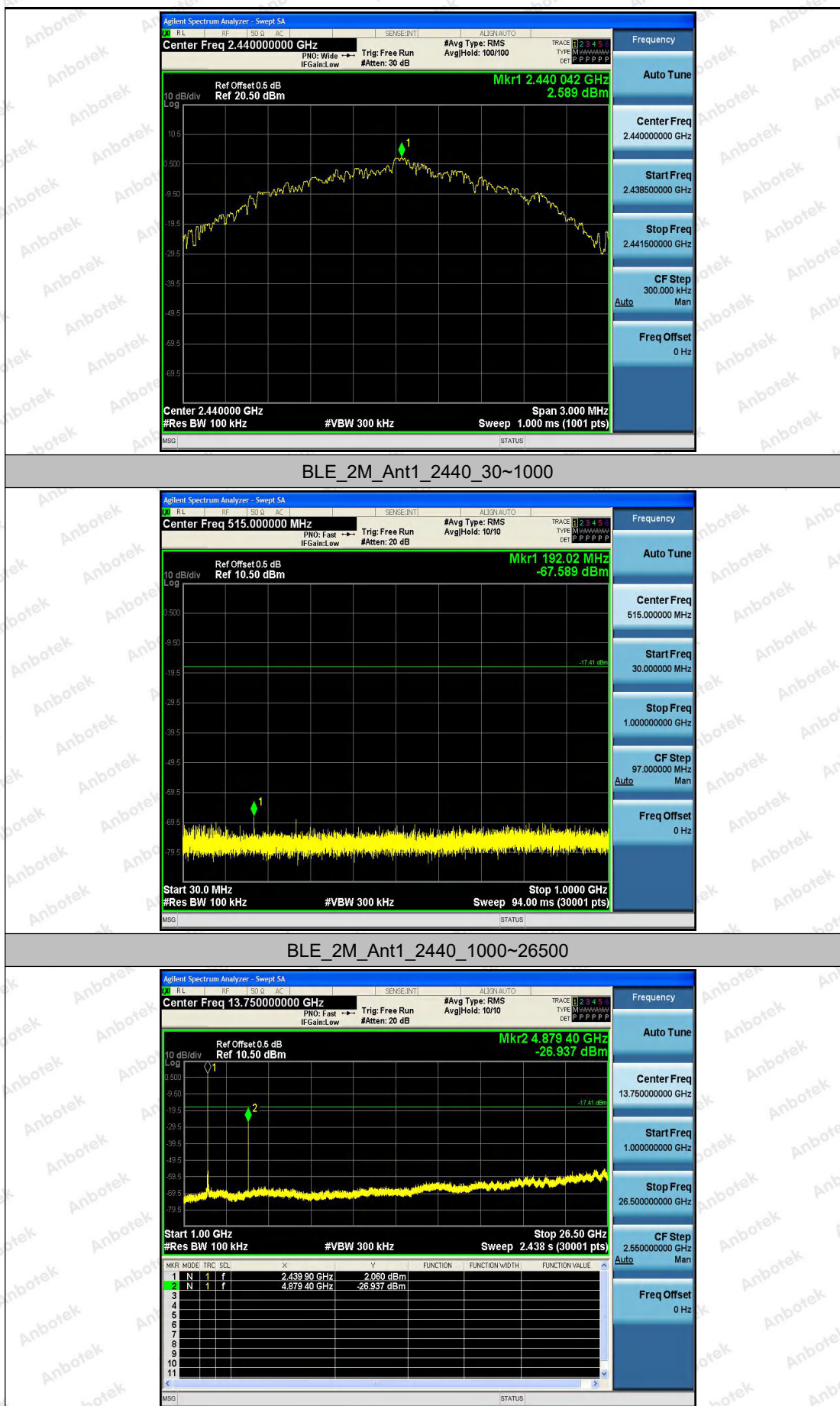
BLE_2M_Ant1_2440_0~Reference

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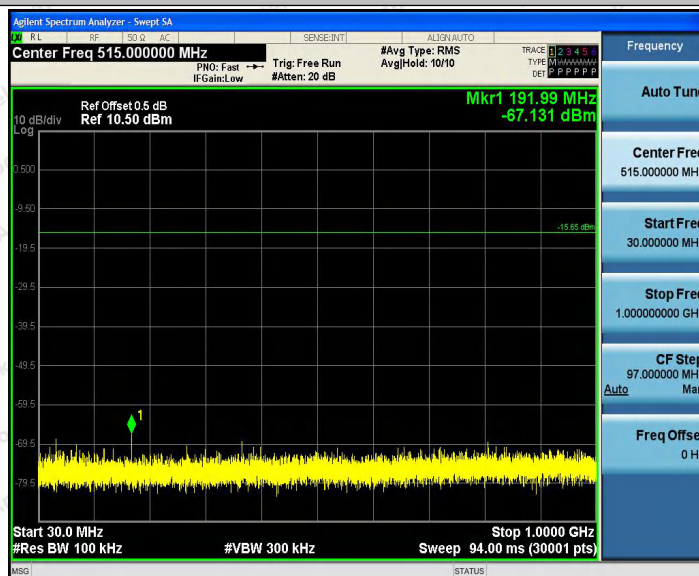
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



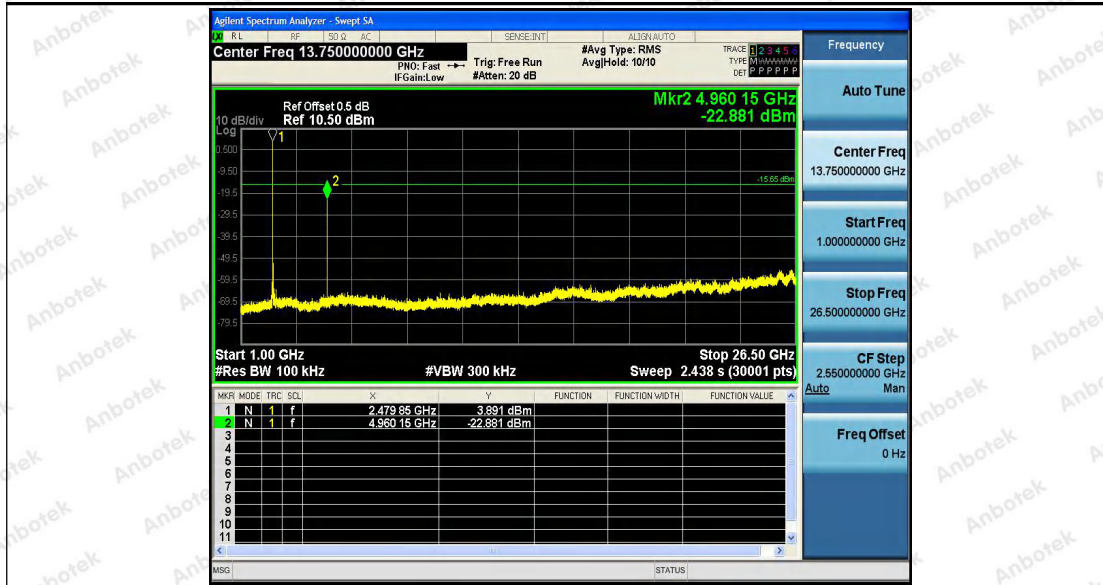
BLE_2M_Ant1_2480_1000~26500

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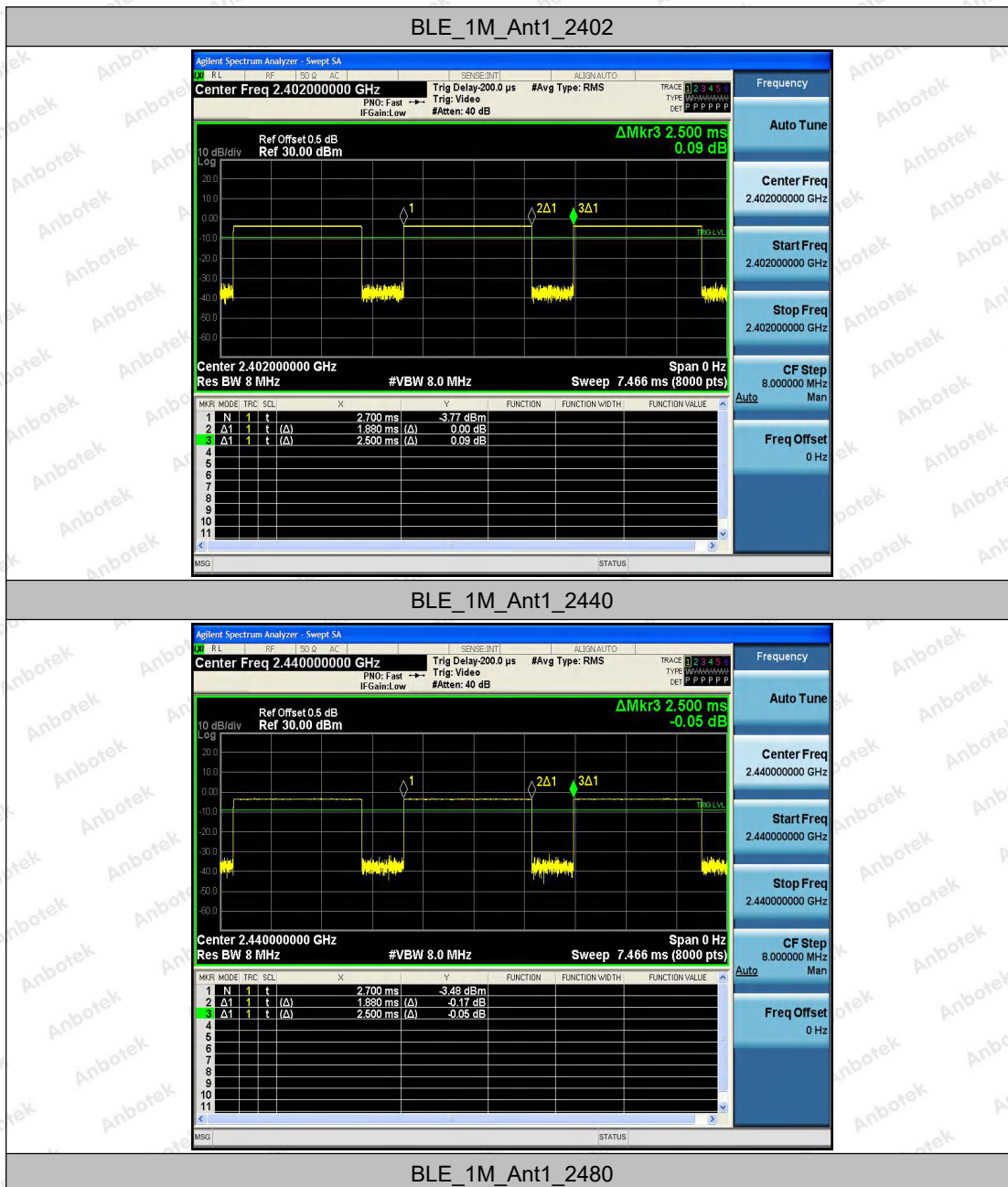
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Appendix G: Duty Cycle

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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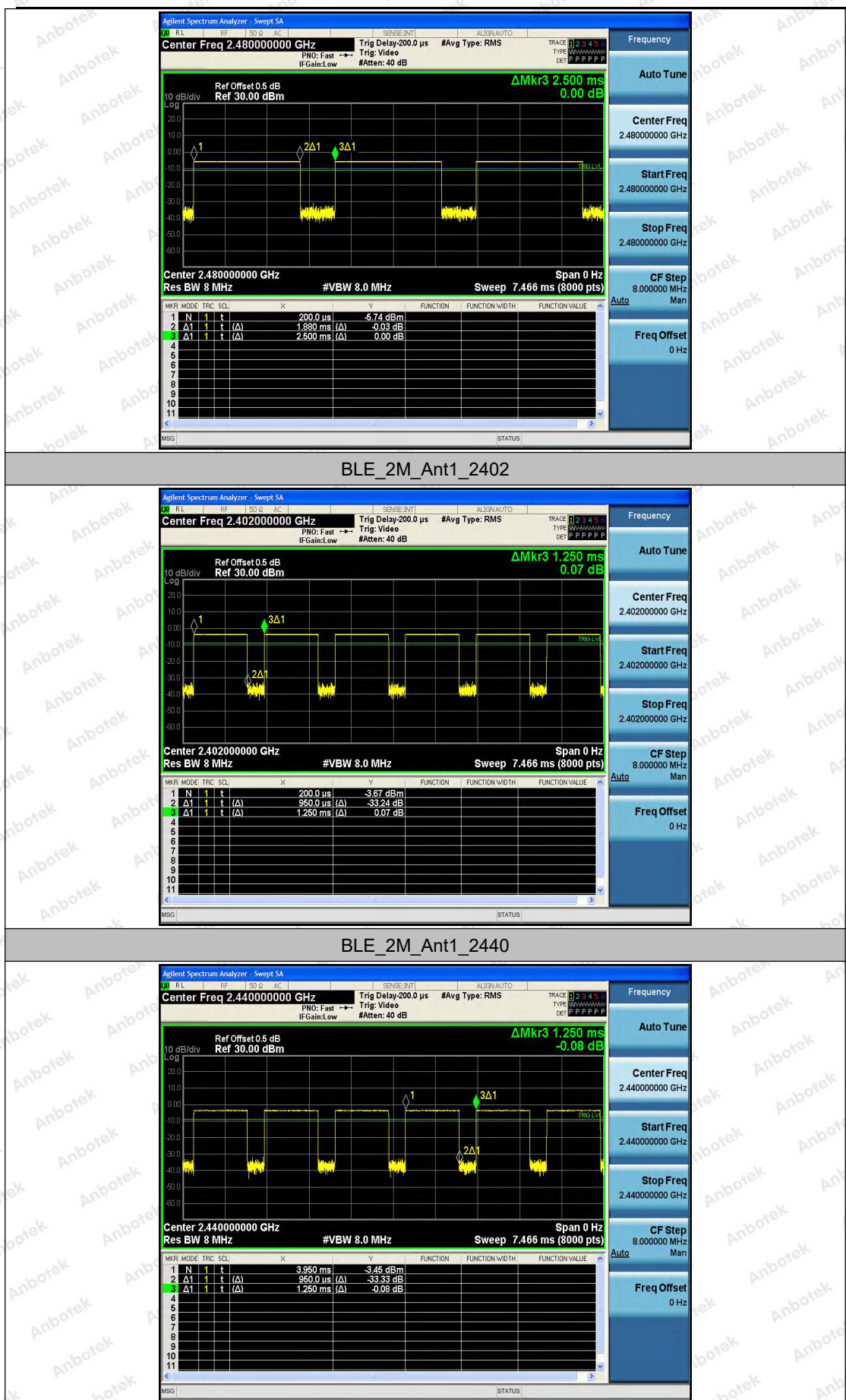
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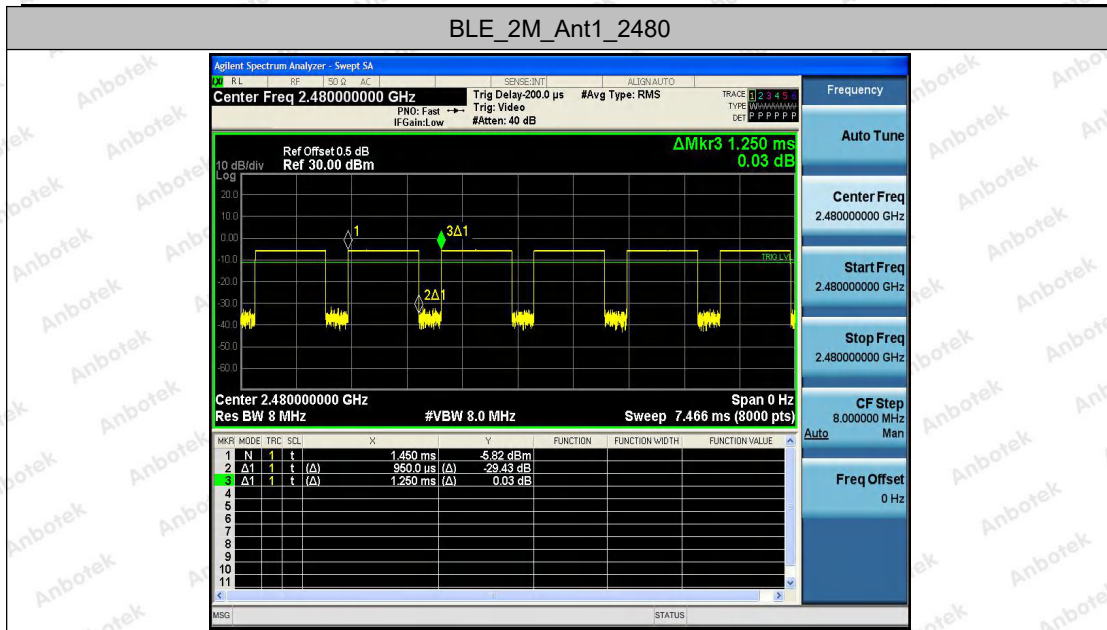


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