

Appendix Test Data

Report No.:	18220WC20044201	Test Sample No.:	1-2-2
Start Test Date:	2022.3.8	Finish Test Date:	2022.3.15
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	55.7 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.640	2402.332	≥0.5	PASS
		2440	0.692	2439.644	2440.336	≥0.5	PASS
		2480	0.696	2479.644	2480.340	≥0.5	PASS
BLE_2M	Ant1	2402	1.124	2401.412	2402.536	≥0.5	PASS
		2440	0.968	2439.404	2440.372	≥0.5	PASS
		2480	1.132	2479.408	2480.540	≥0.5	PASS

Test Graphs

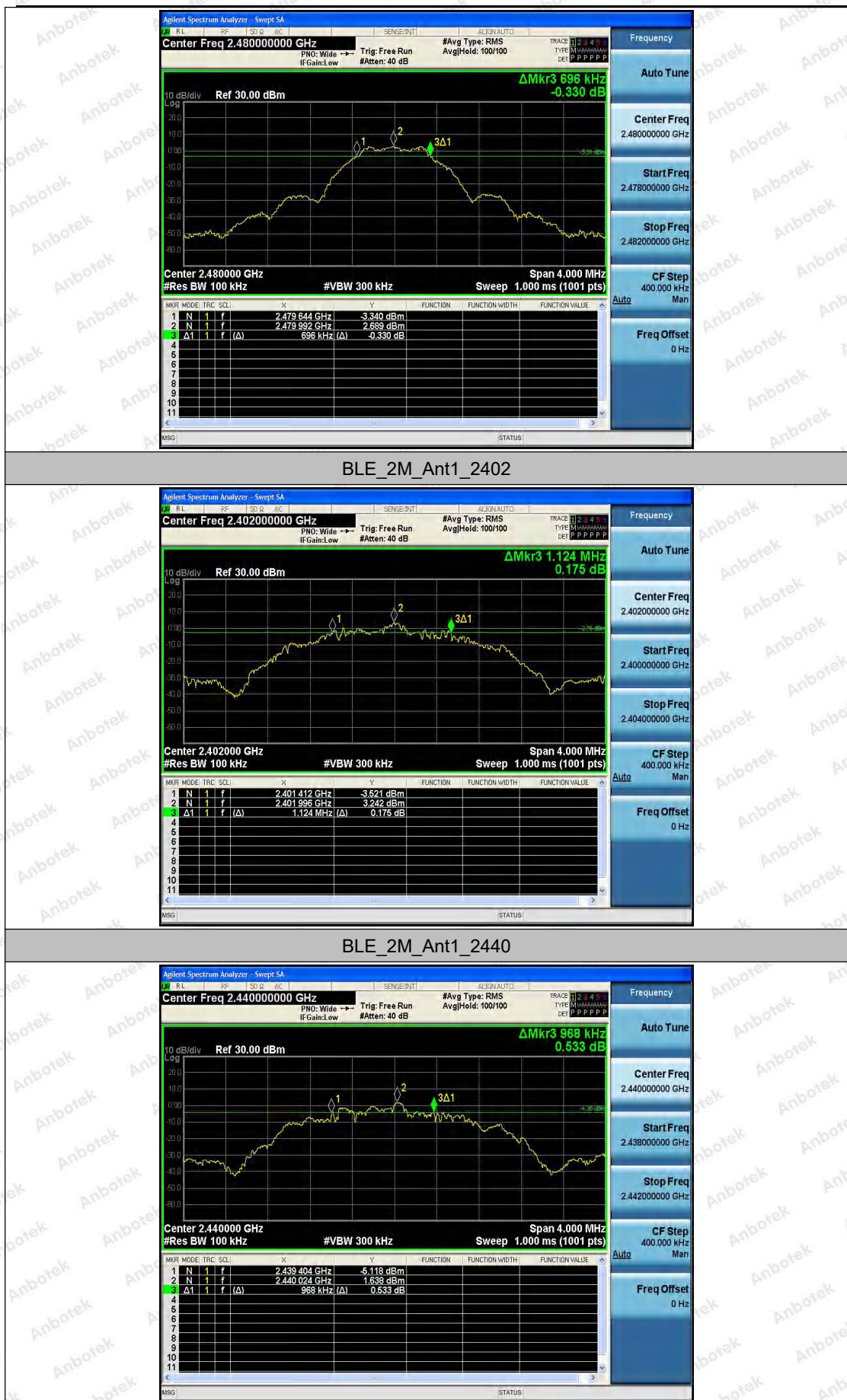
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0322	2401.493	2402.526	---	PASS
		2440	1.0332	2439.494	2440.527	---	PASS
		2480	1.0202	2479.494	2480.514	---	PASS
BLE_2M	Ant1	2402	2.0604	2400.977	2403.038	---	PASS
		2440	2.0549	2438.989	2441.044	---	PASS
		2480	2.0841	2478.966	2481.050	---	PASS

Test Graphs

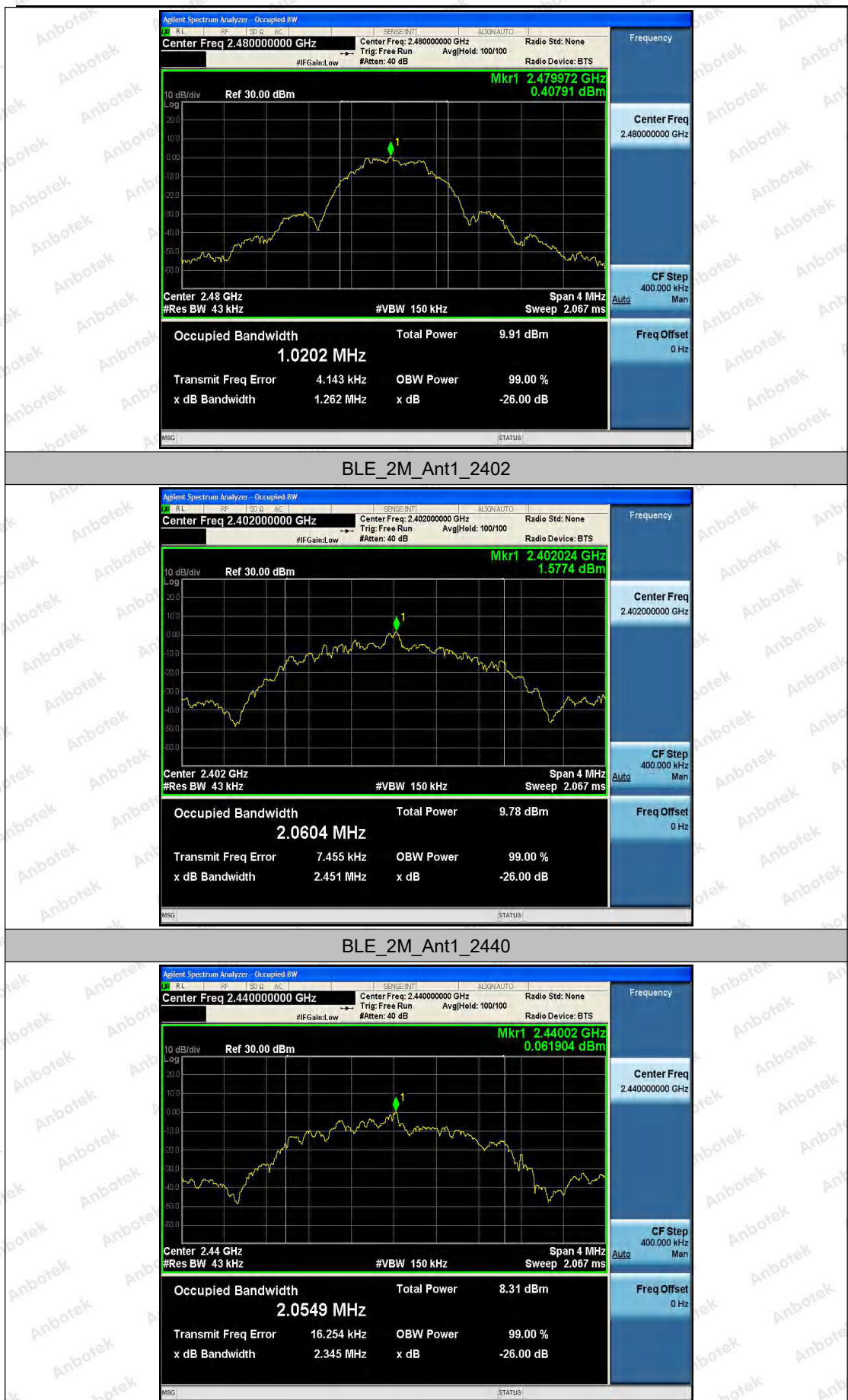


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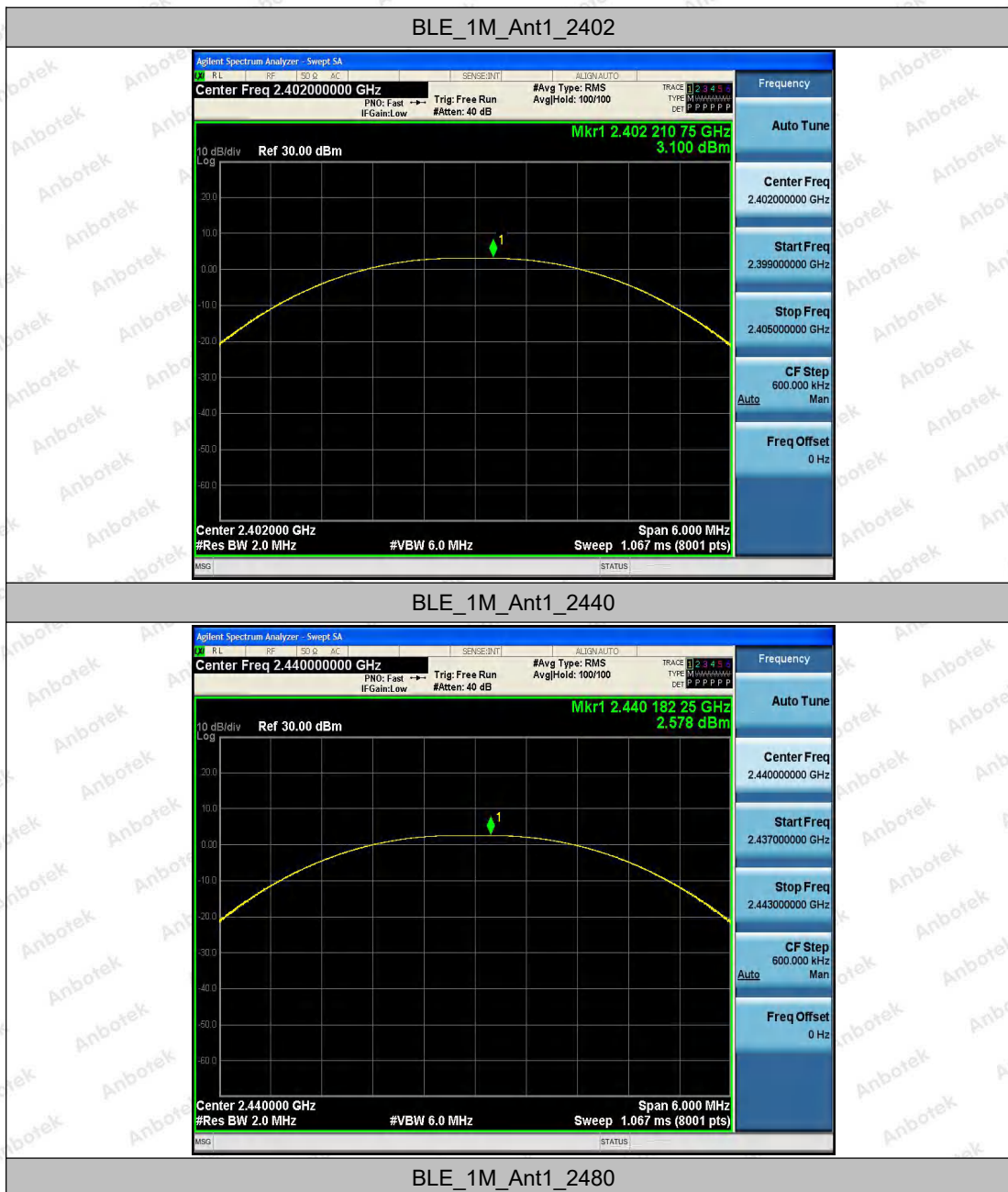
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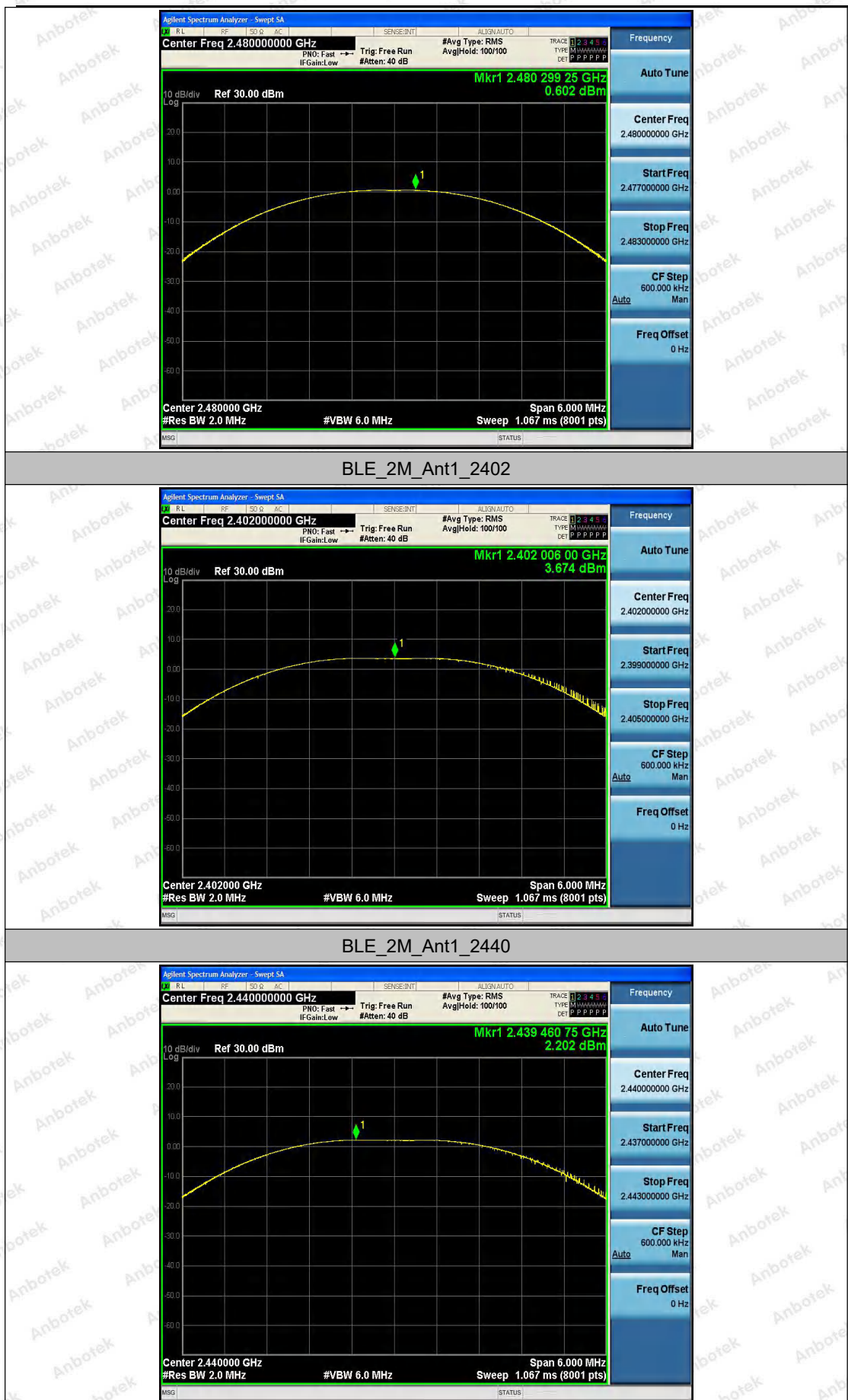
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.1	≤30	PASS
		2440	2.58	≤30	PASS
		2480	0.6	≤30	PASS
BLE_2M	Ant1	2402	3.67	≤30	PASS
		2440	2.2	≤30	PASS
		2480	1.67	≤30	PASS

Test Graphs



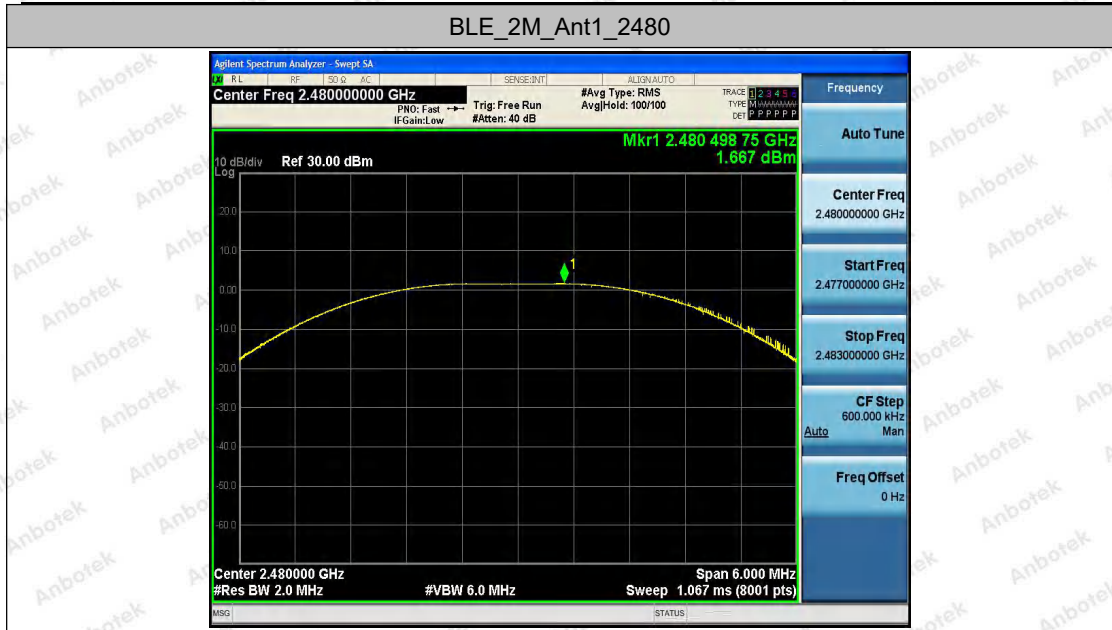


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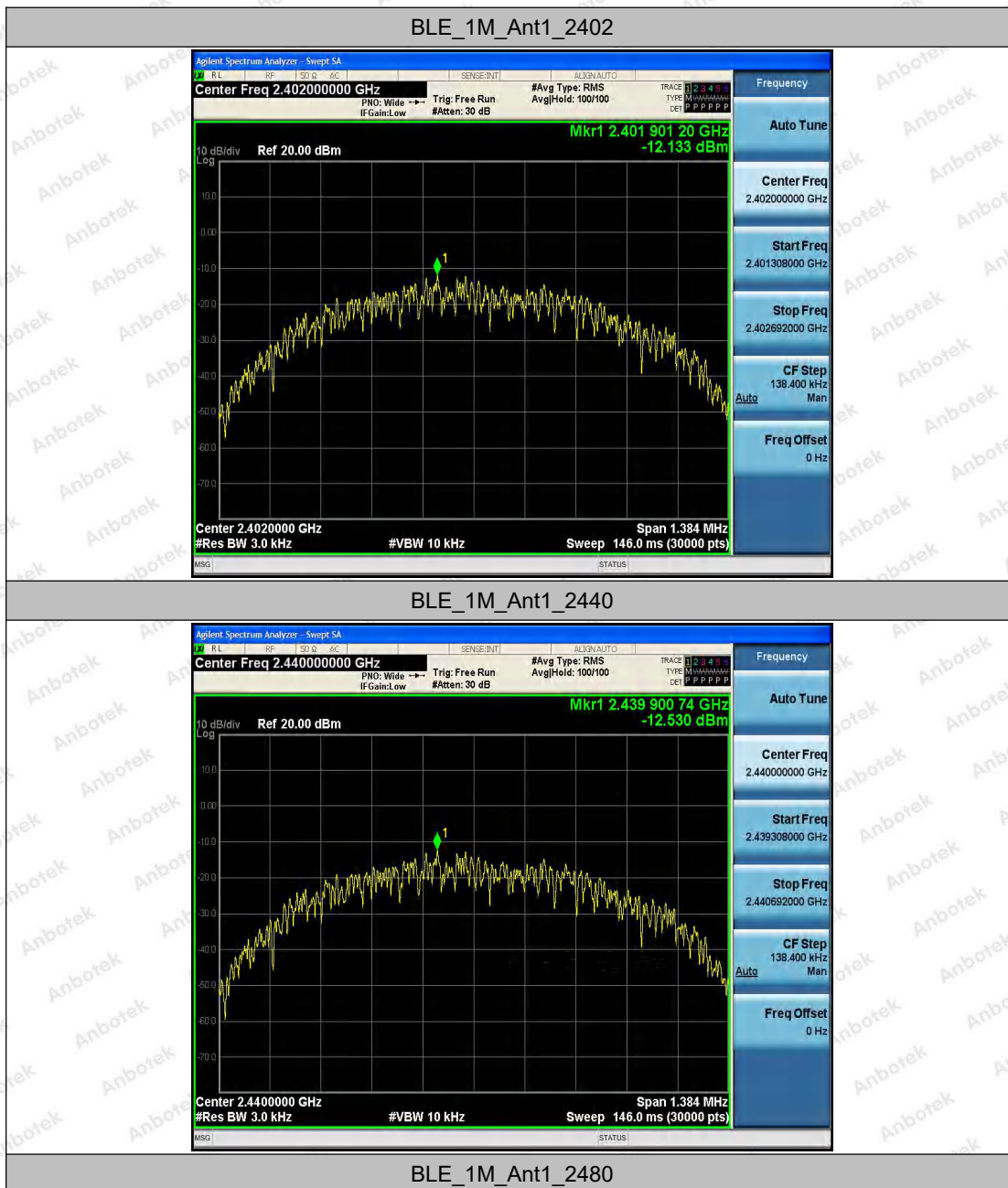
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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.13	≤8	PASS
		2440	-12.53	≤8	PASS
		2480	-11.51	≤8	PASS
BLE_2M	Ant1	2402	-14.52	≤8	PASS
		2440	-15.45	≤8	PASS
		2480	-15.92	≤8	PASS

Test Graphs

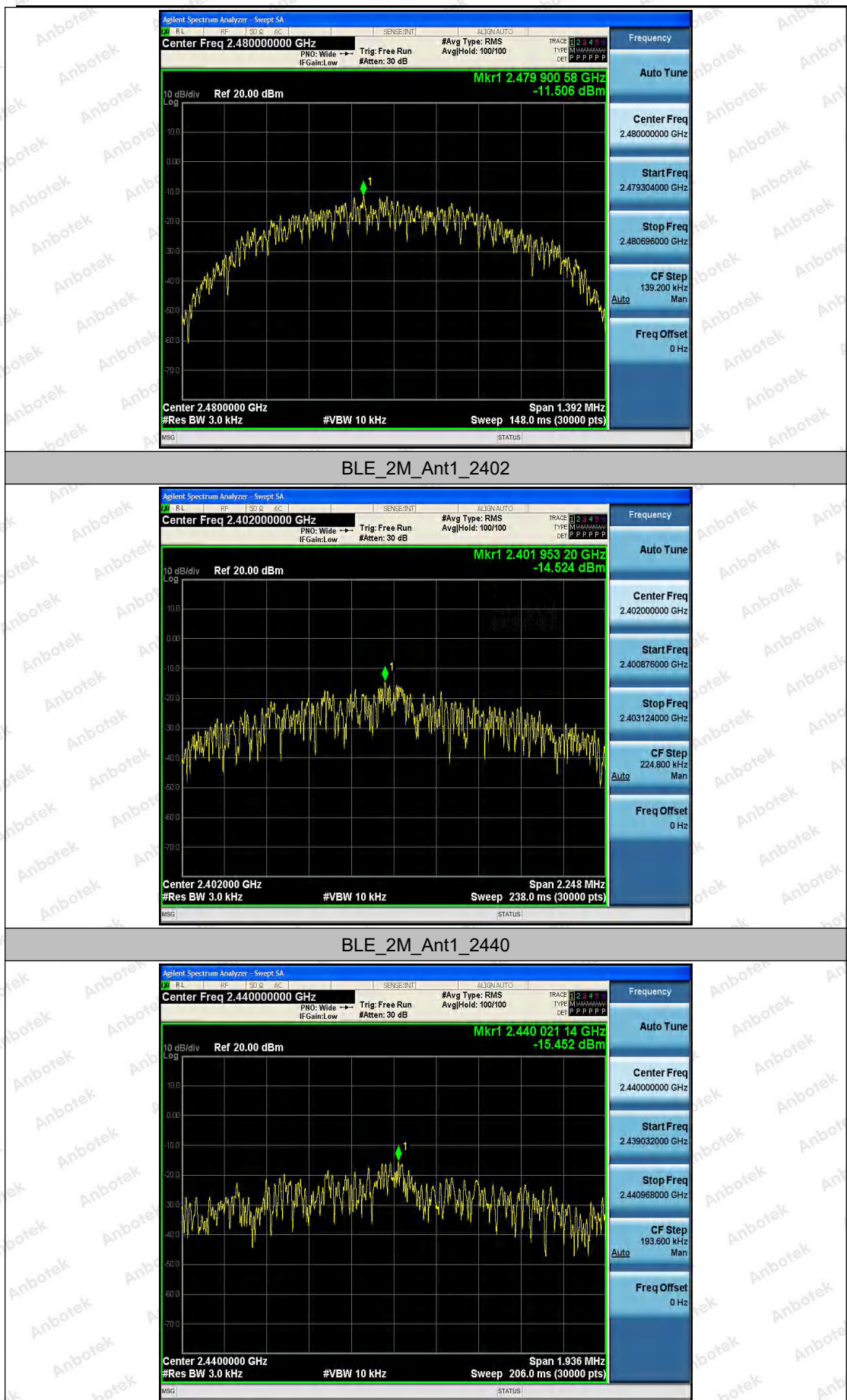


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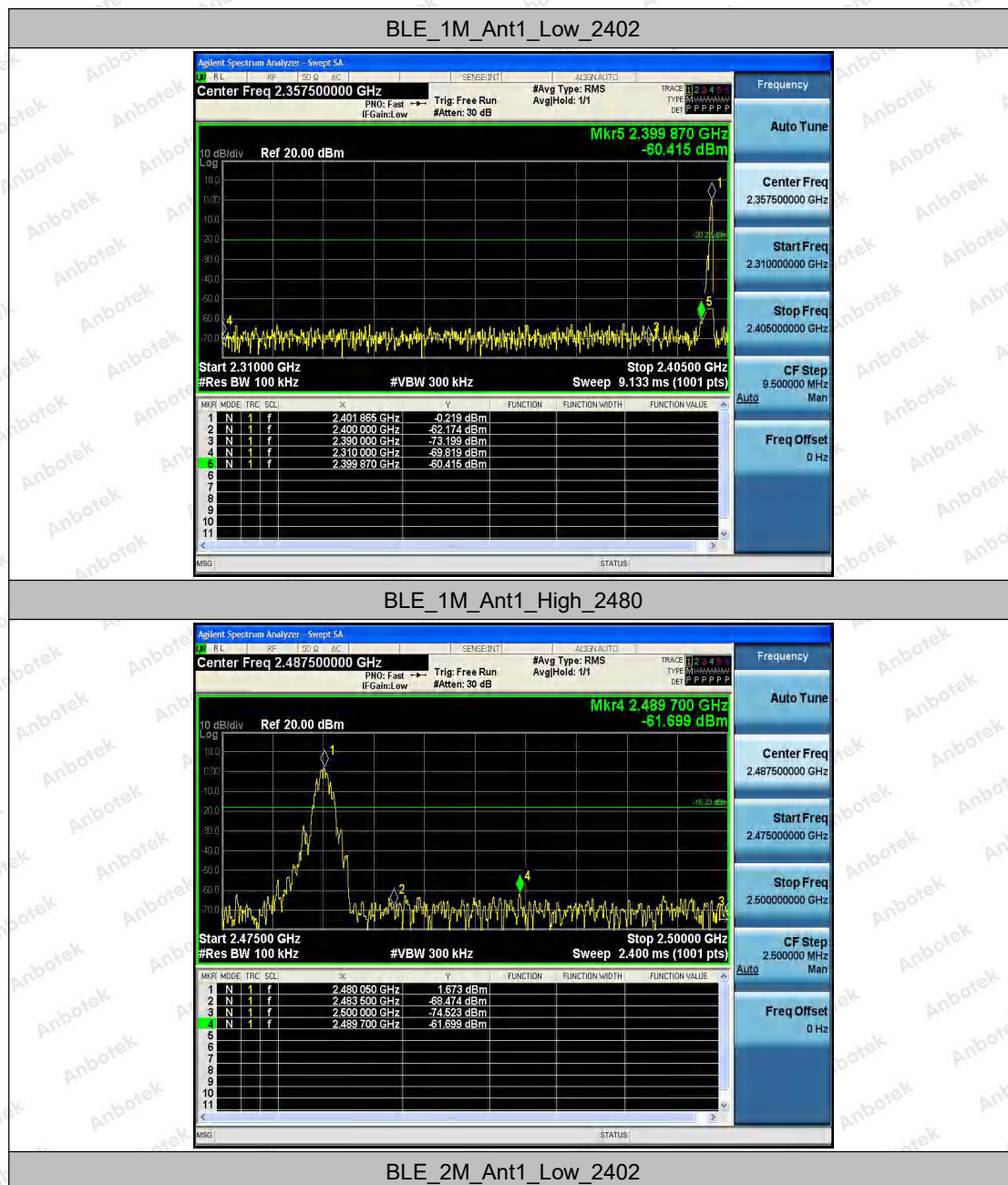
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.22	-60.42	≤-20.22	PASS
		High	2480	1.67	-61.7	≤-18.33	PASS
BLE_2M	Ant1	Low	2402	3.19	-28.35	≤-16.81	PASS
		High	2480	1.33	-62.74	≤-18.67	PASS

Test Graphs

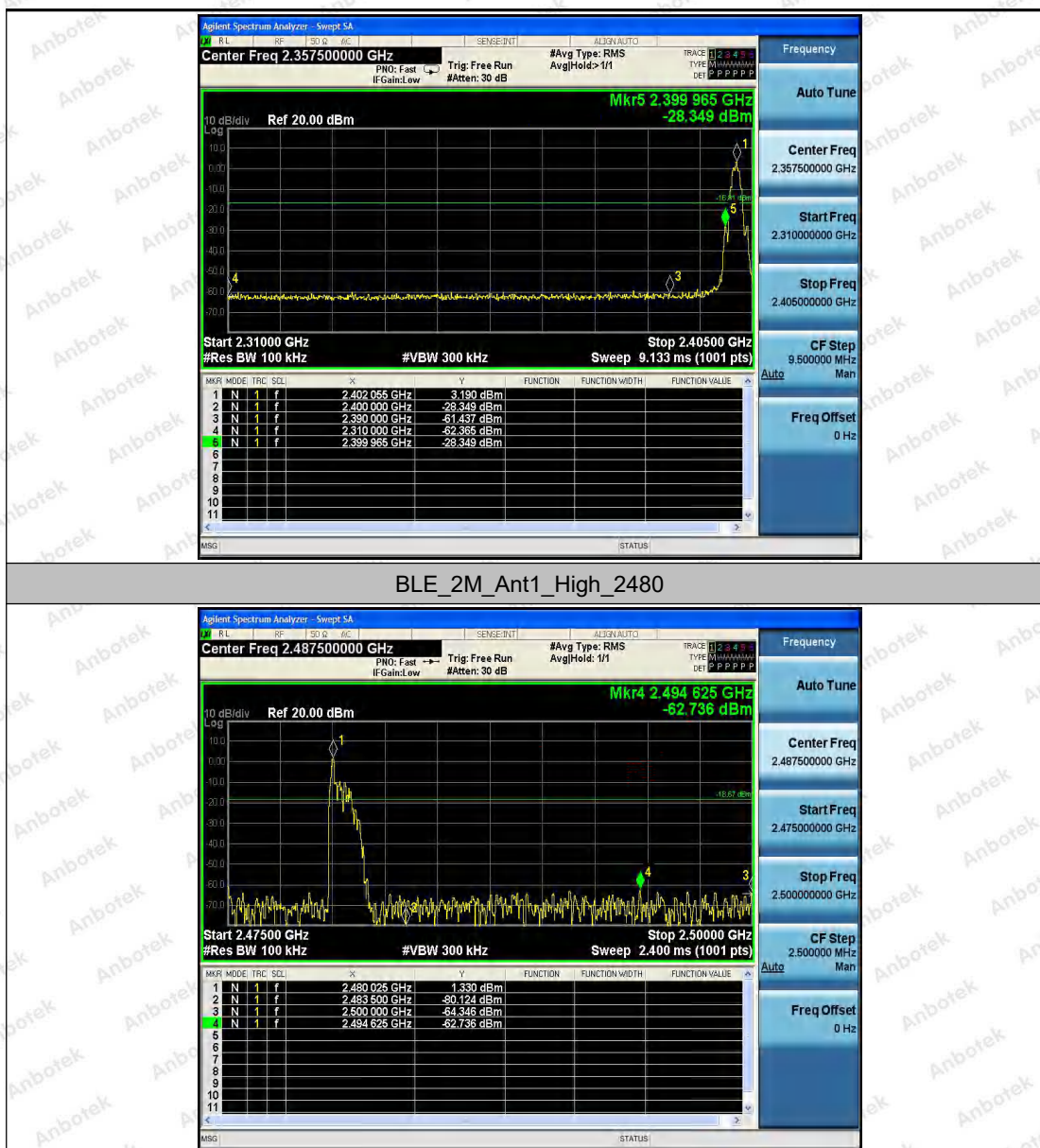


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Appendix F: Conducted Spurious Emission

Test Result

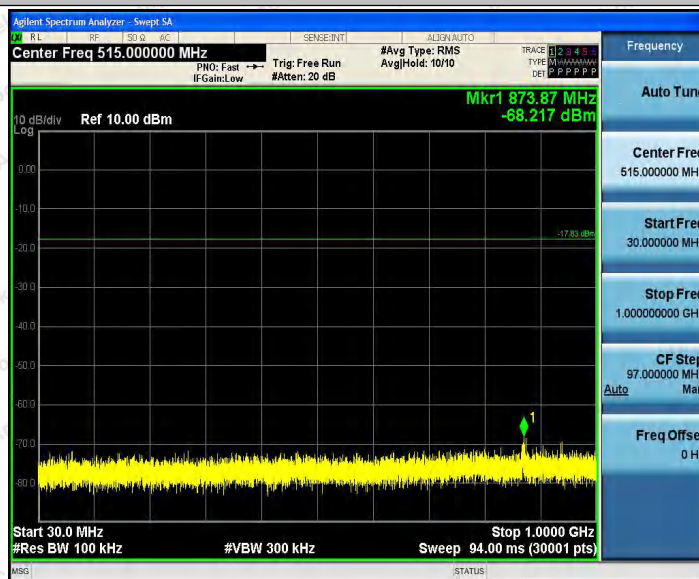
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-68.22	≤-17.83	PASS
			1000~26500	2.17	-55.17	≤-17.83	PASS
		2440	Reference	1.67	1.67	---	PASS
			30~1000	1.67	-70.37	≤-18.33	PASS
			1000~26500	1.67	-56.03	≤-18.33	PASS
		2480	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-69.64	≤-17.29	PASS
			1000~26500	2.71	-55.07	≤-17.29	PASS
BLE_2M	Ant1	2402	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-70.46	≤-16.75	PASS
			1000~26500	3.25	-55.73	≤-16.75	PASS
		2440	Reference	1.77	1.77	---	PASS
			30~1000	1.77	-70.49	≤-18.23	PASS
			1000~26500	1.77	-55.49	≤-18.23	PASS
		2480	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-70.77	≤-18.57	PASS
			1000~26500	1.43	-56.23	≤-18.57	PASS

Test Graphs

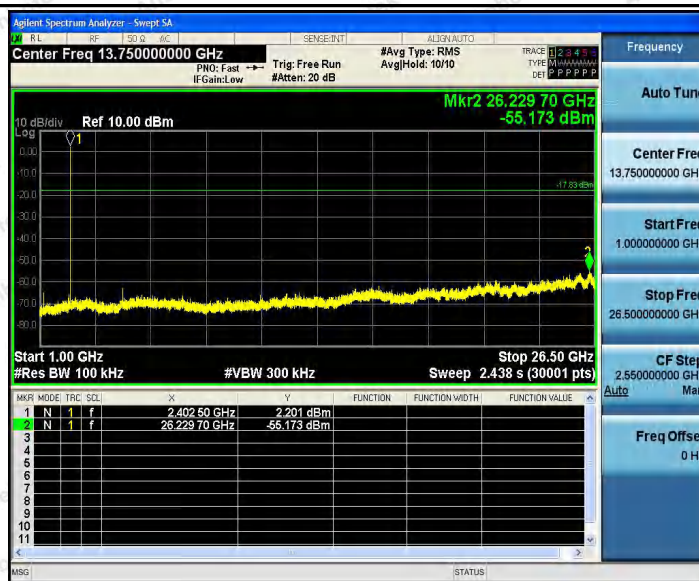
BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



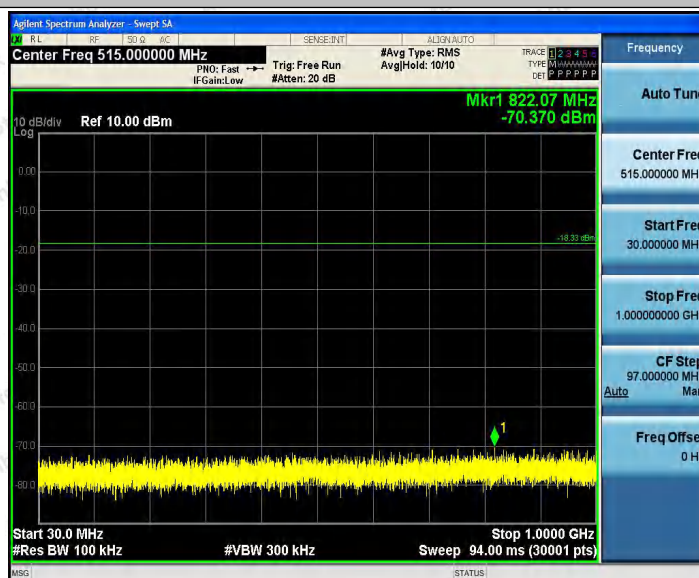
BLE_1M_Ant1_2402_1000~26500



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



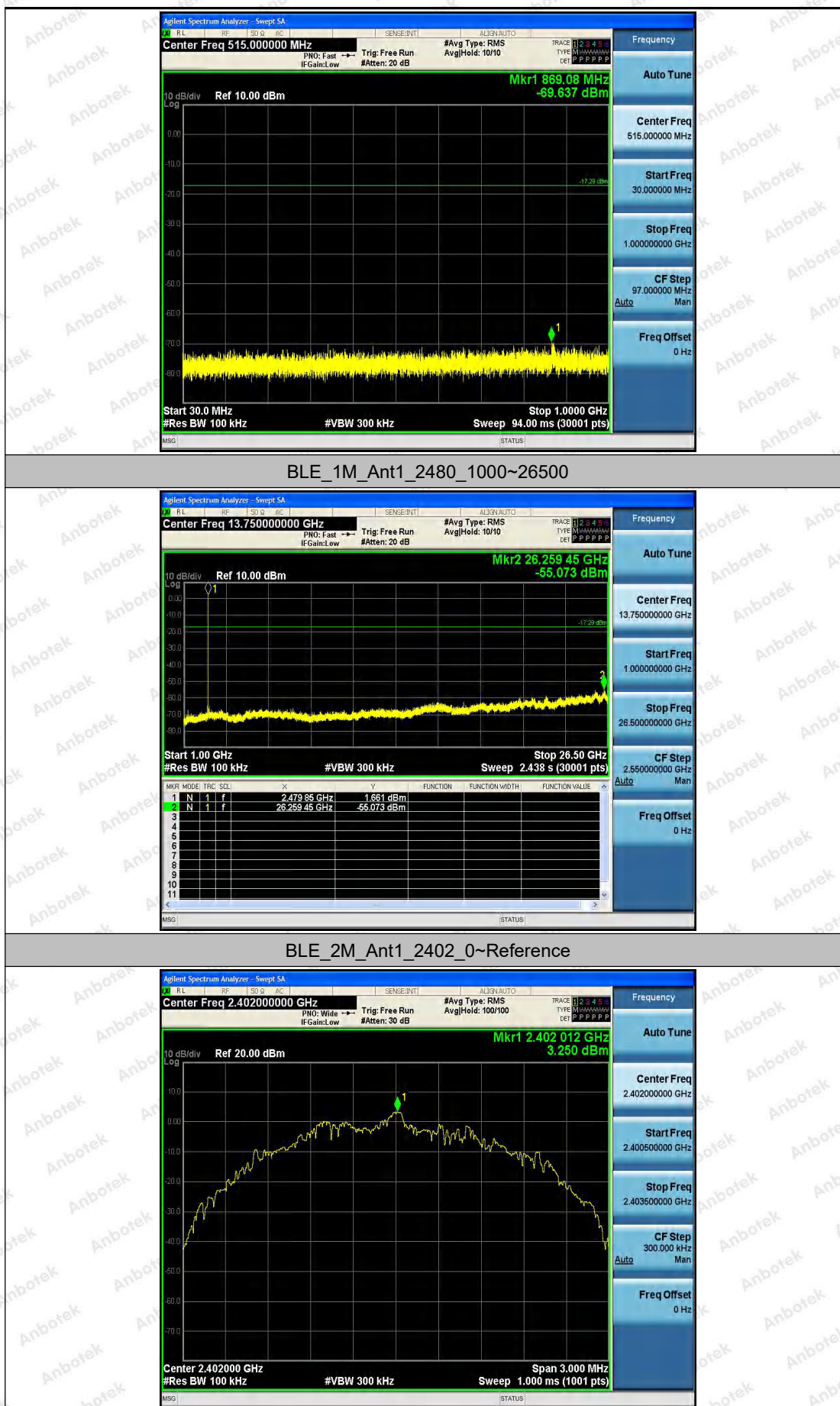
BLE_1M_Ant1_2480_30~1000

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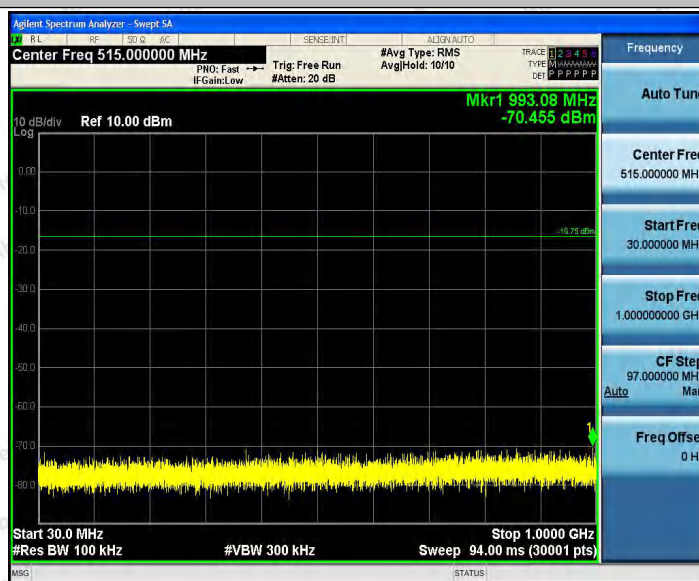
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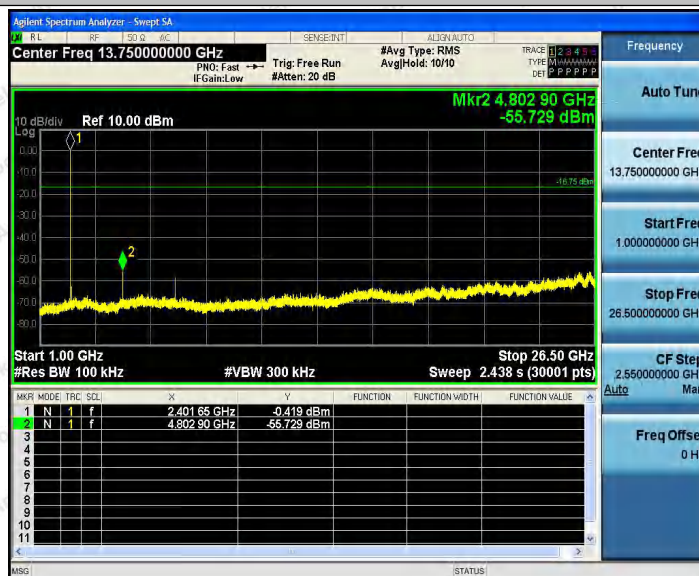
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



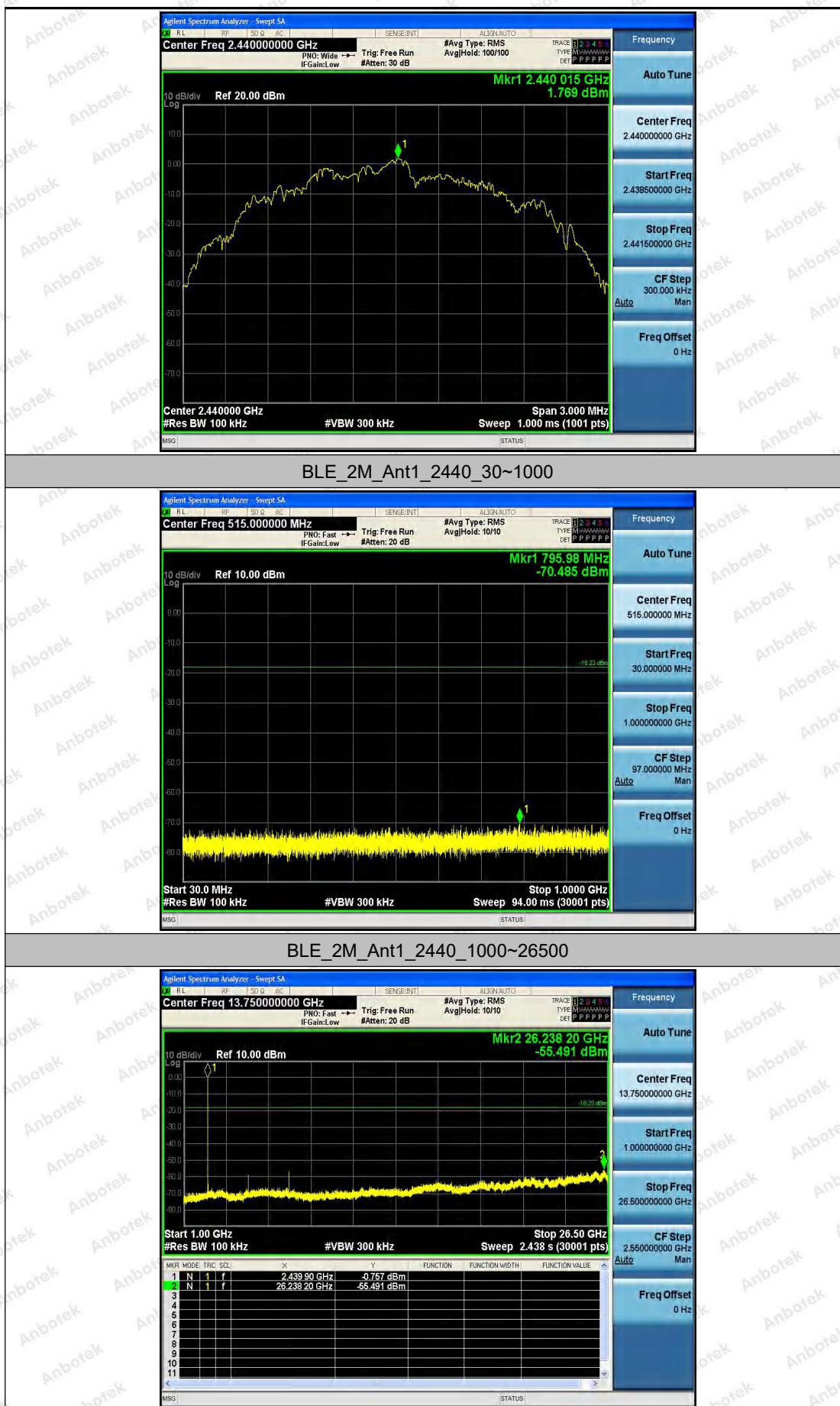
BLE_2M_Ant1_2440_0~Reference

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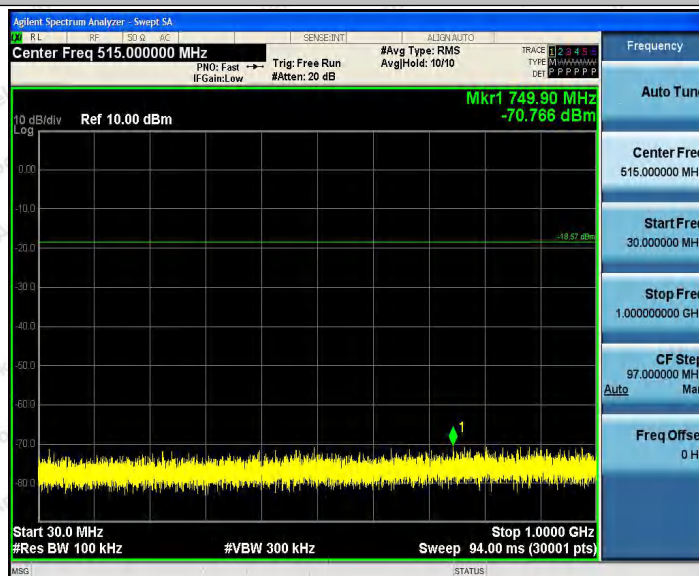
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



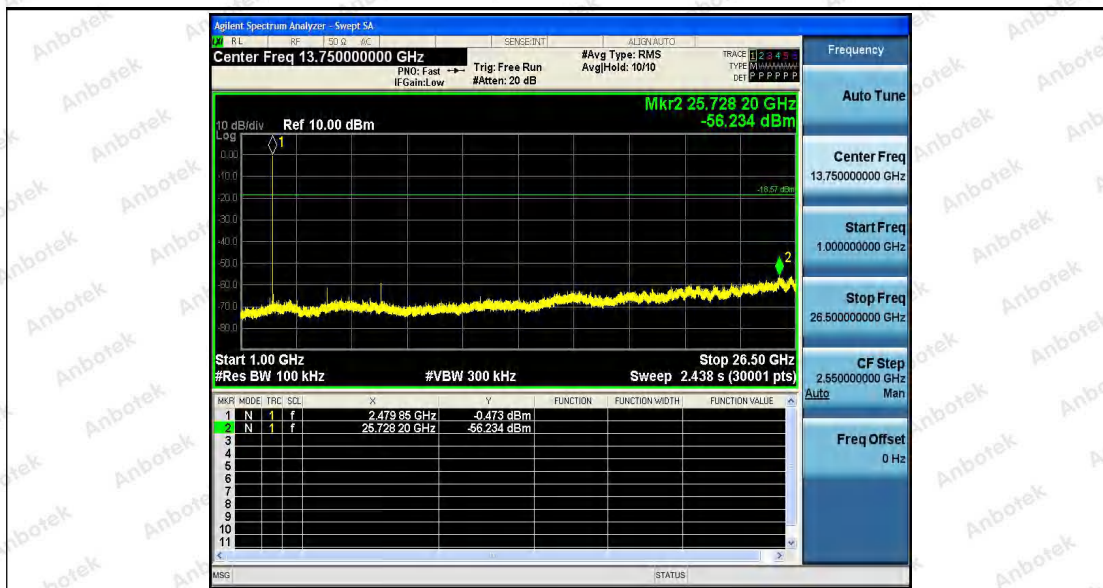
BLE_2M_Ant1_2480_1000~26500

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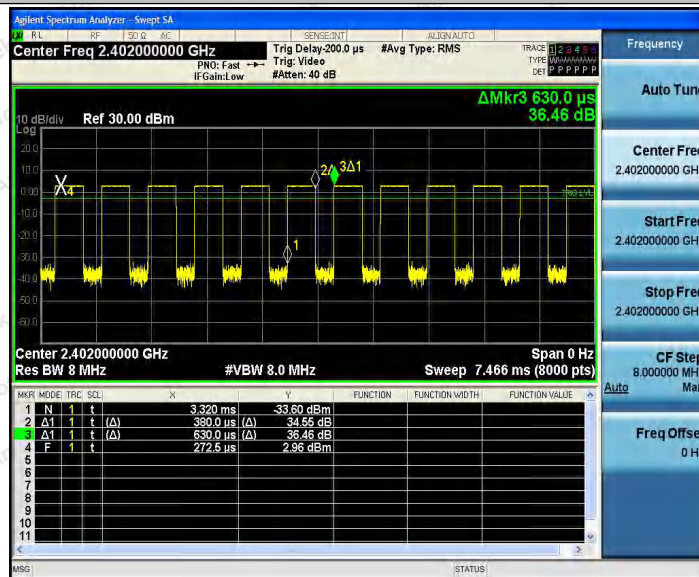
Appendix G: Duty Cycle

Test Result

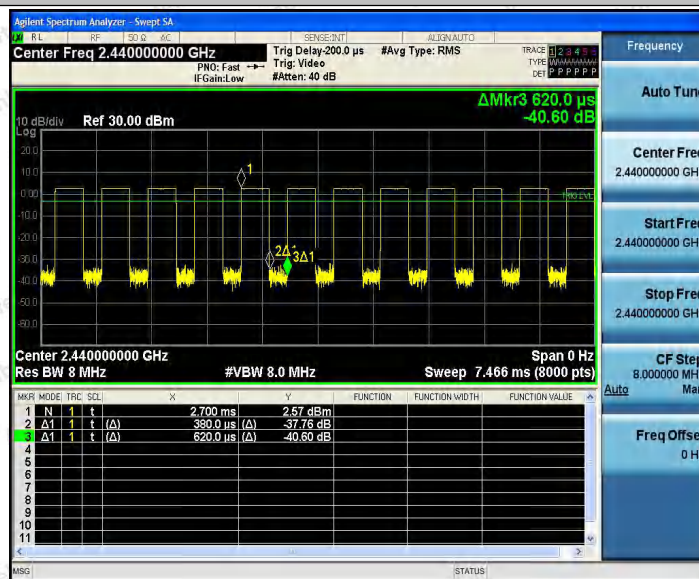
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.38	0.63	0.6032	60.32	2.20	---	PASS
		2440	0.38	0.62	0.6129	61.29	2.13	---	PASS
		2480	0.38	0.63	0.6032	60.32	2.20	---	PASS
BLE_2M	Ant1	2402	0.17	0.62	0.2742	27.42	5.62	---	PASS
		2440	0.17	0.62	0.2742	27.42	5.62	---	PASS
		2480	0.17	0.62	0.2742	27.42	5.62	---	PASS

Test Graphs

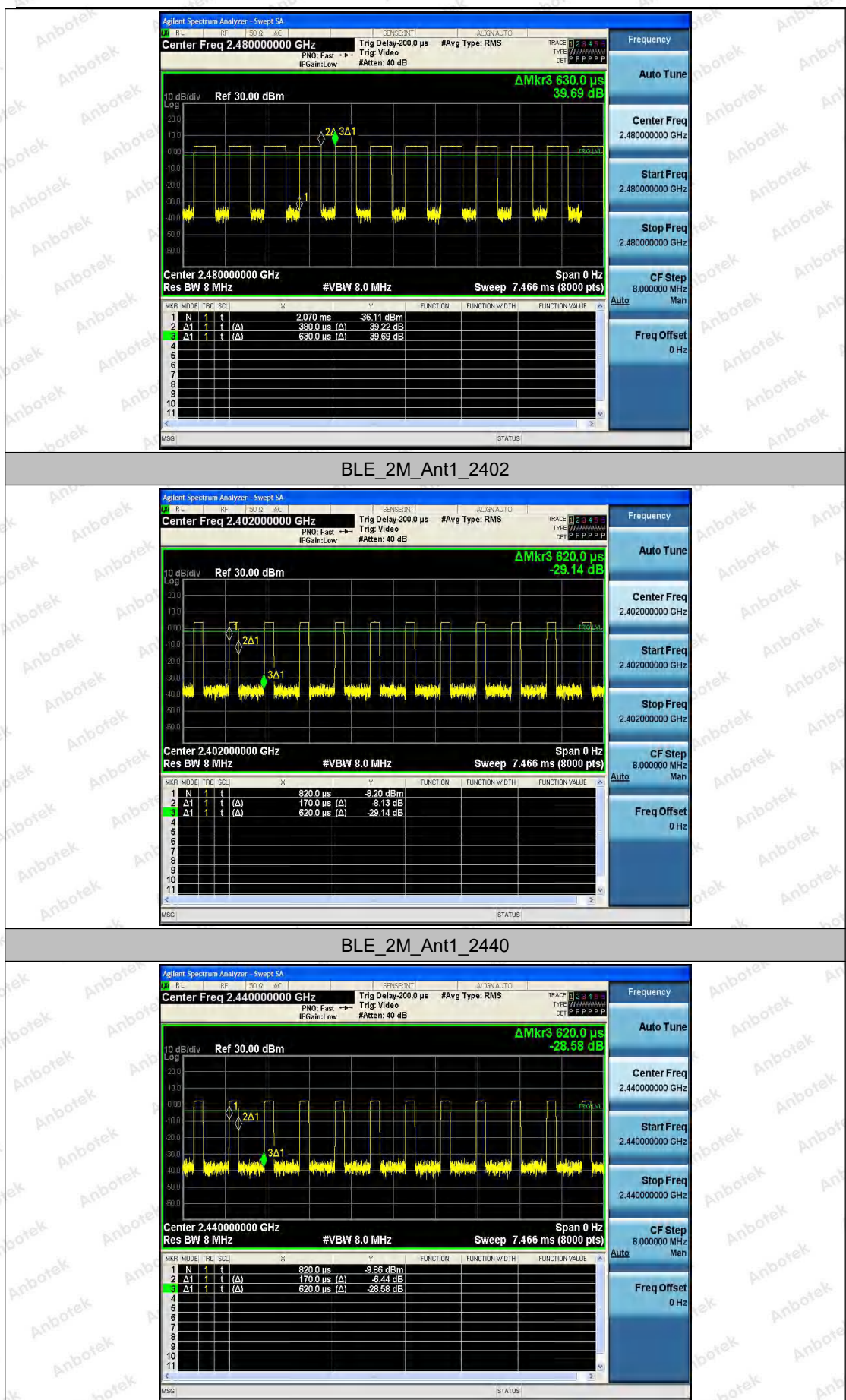
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

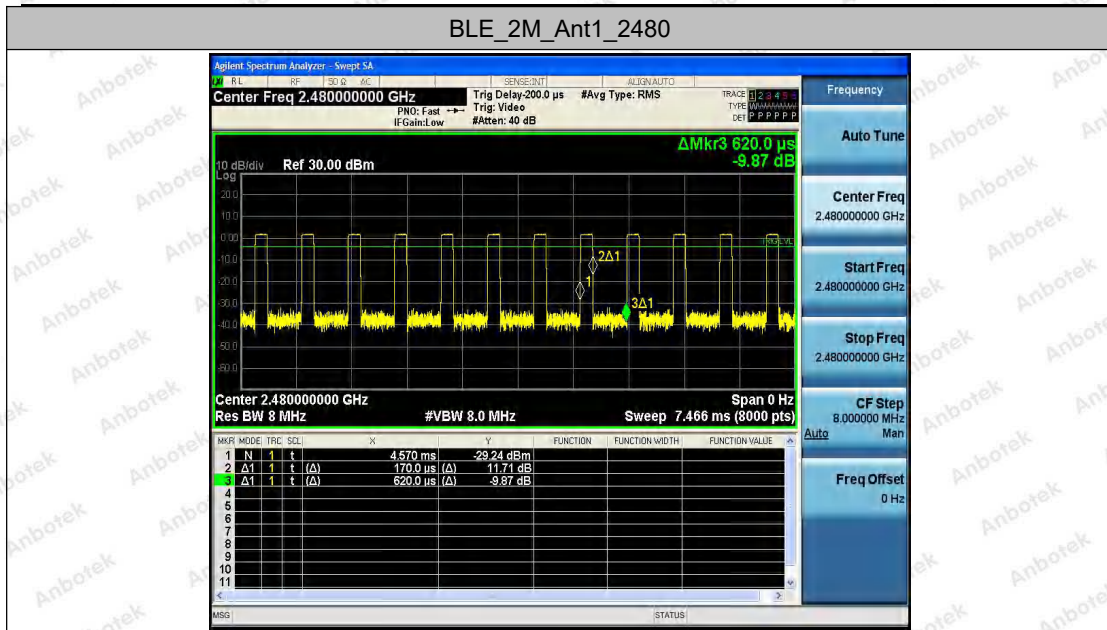


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