

Appendix Test Data

Report No.:	18220WC20174402	Test Sample No.:	1-2-2
Start Test Date:	2022.8.2	Finish Test Date:	2022.8.8
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°C	Relative Humidity:	46 %
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	0.704	2401.644	2402.348	0.5	PASS
		2440	0.708	2439.644	2440.352	0.5	PASS
		2480	0.724	2479.636	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.200	2401.396	2402.596	0.5	PASS
		2440	1.264	2439.336	2440.600	0.5	PASS
		2480	1.176	2479.404	2480.580	0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



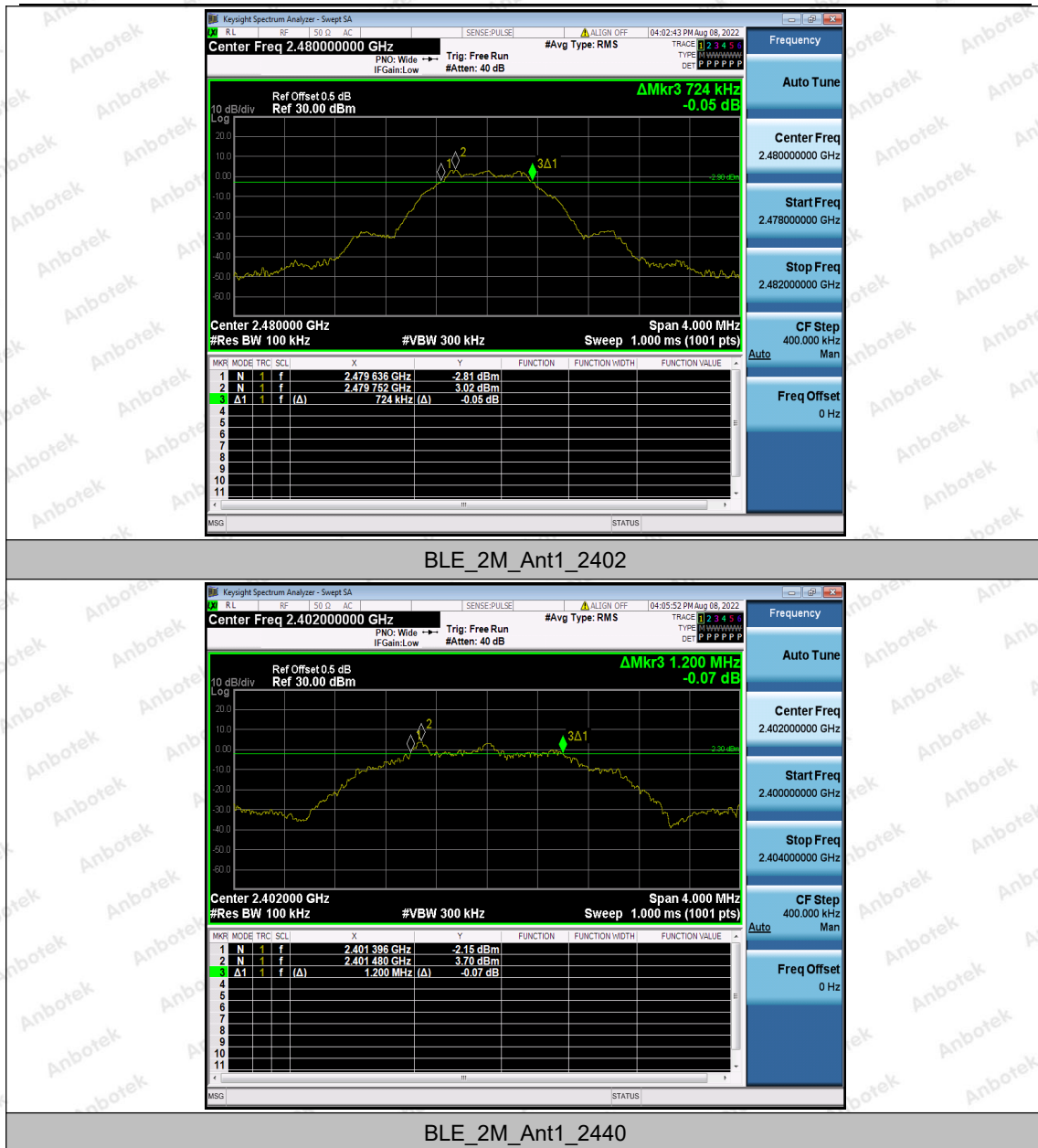
BLE_1M_Ant1_2480

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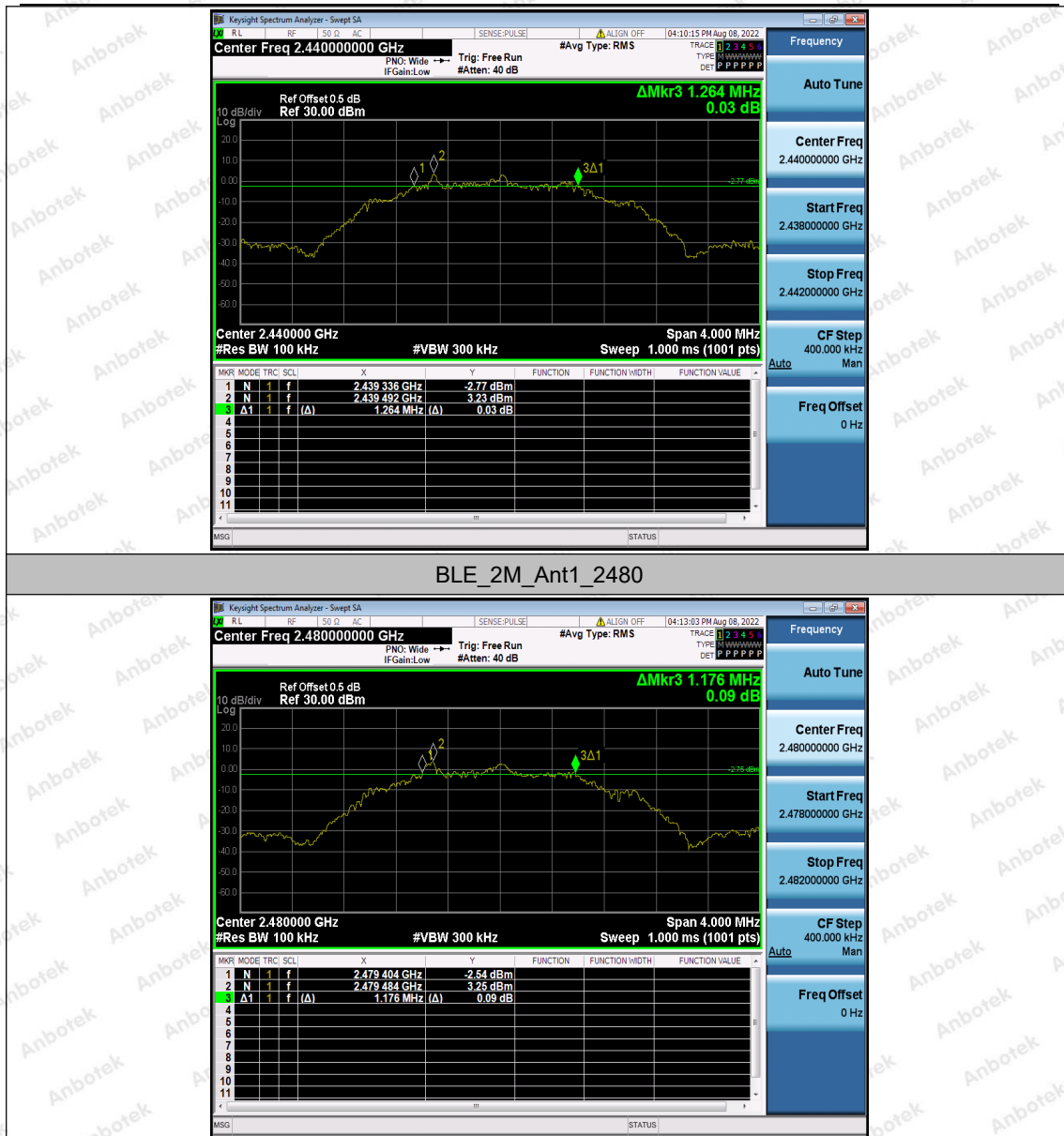


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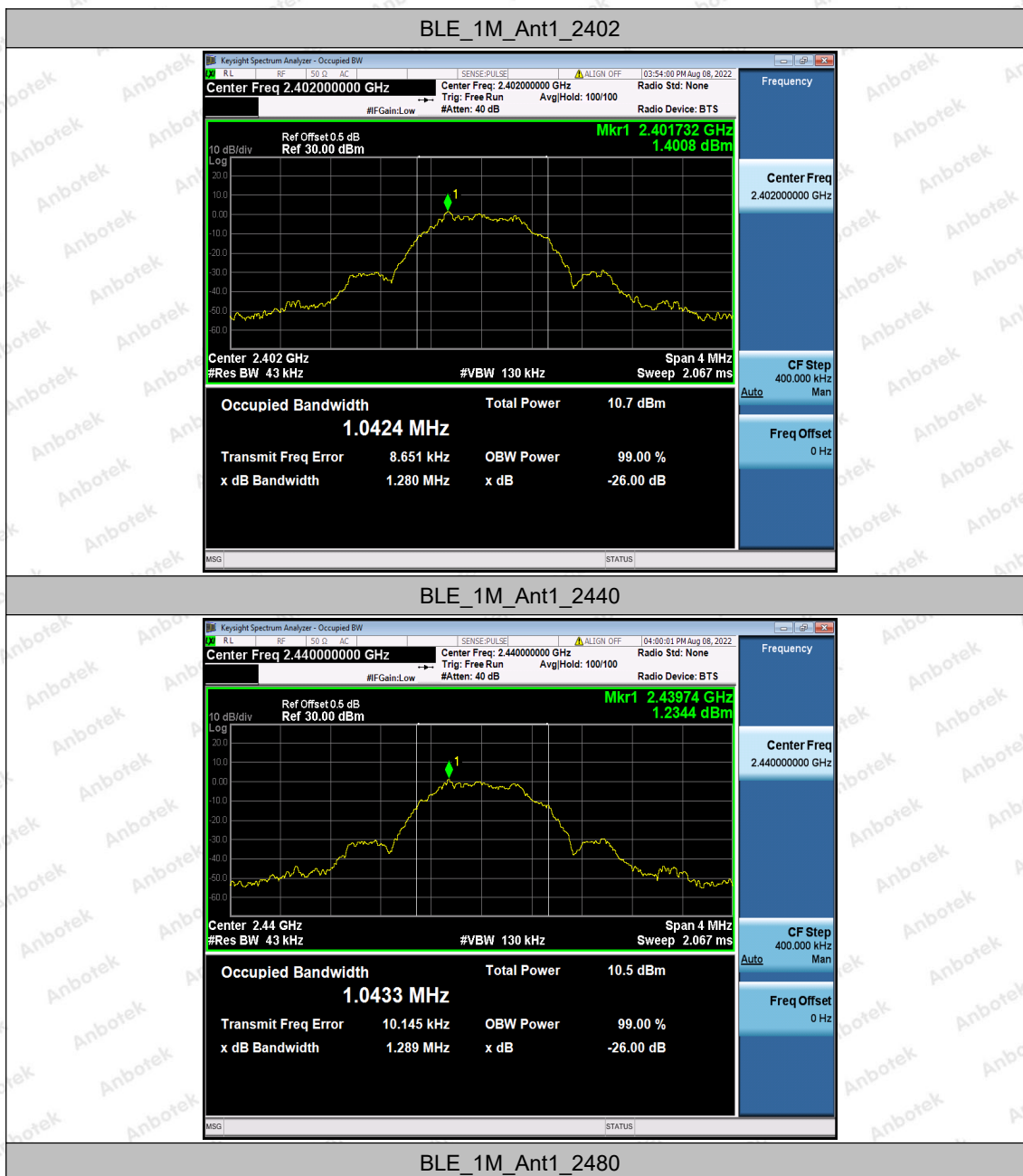
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0424	2401.4875	2402.5299	---	---
		2440	1.0433	2439.4885	2440.5318	---	---
		2480	1.0465	2479.4872	2480.5337	---	---
BLE_2M	Ant1	2402	2.0733	2400.9802	2403.0535	---	---
		2440	2.0732	2438.9835	2441.0567	---	---
		2480	2.0707	2478.9843	2481.0550	---	---

Test Graphs

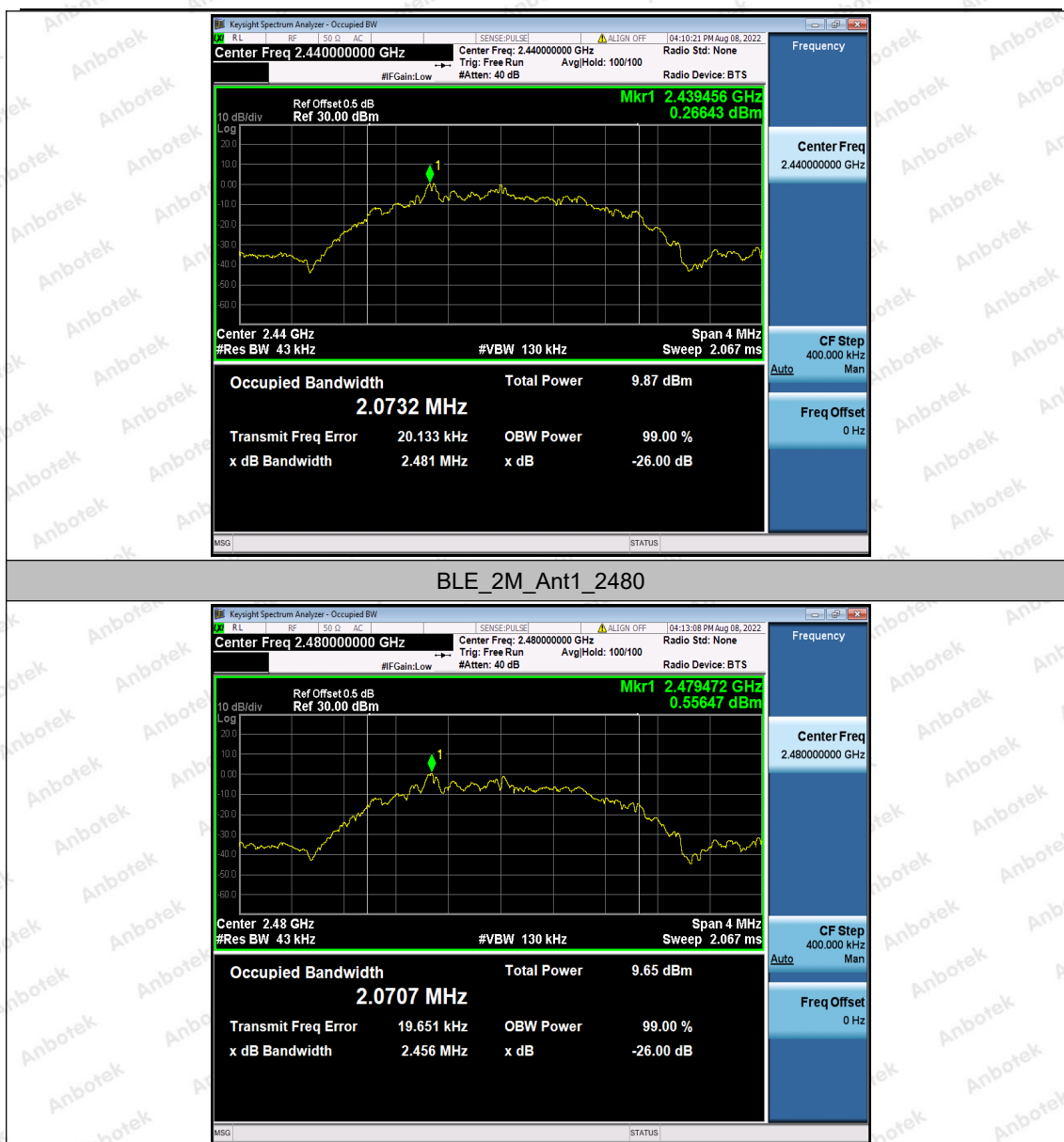




BLE_2M_Ant1_2402



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]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.03	≤30	≤36	PASS
		2440	3.83	≤30	≤36	PASS
		2480	3.58	≤30	≤36	PASS
BLE_2M	Ant1	2402	4.04	≤30	≤36	PASS
		2440	3.87	≤30	≤36	PASS
		2480	3.63	≤30	≤36	PASS

Test Graphs Peak

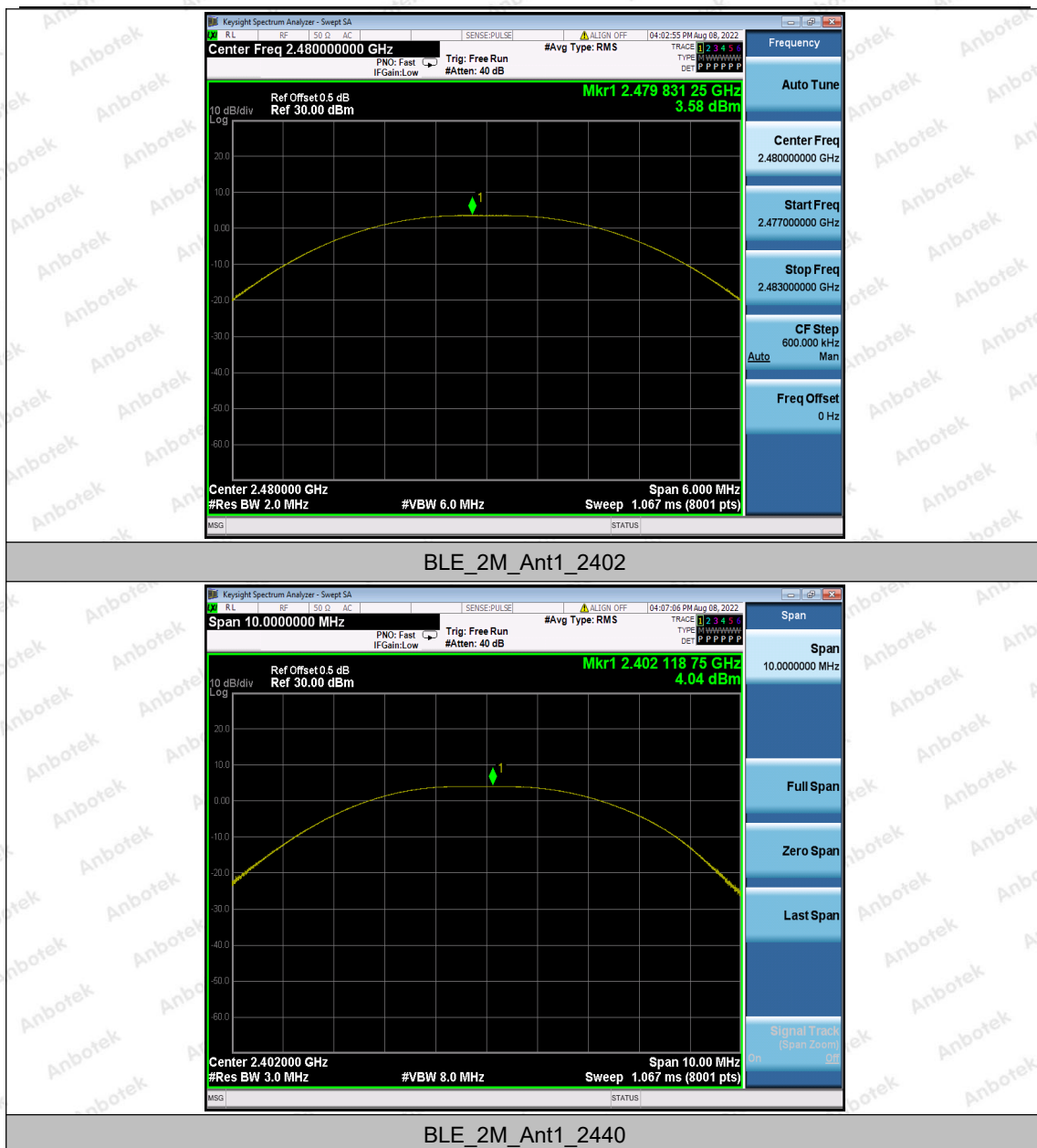


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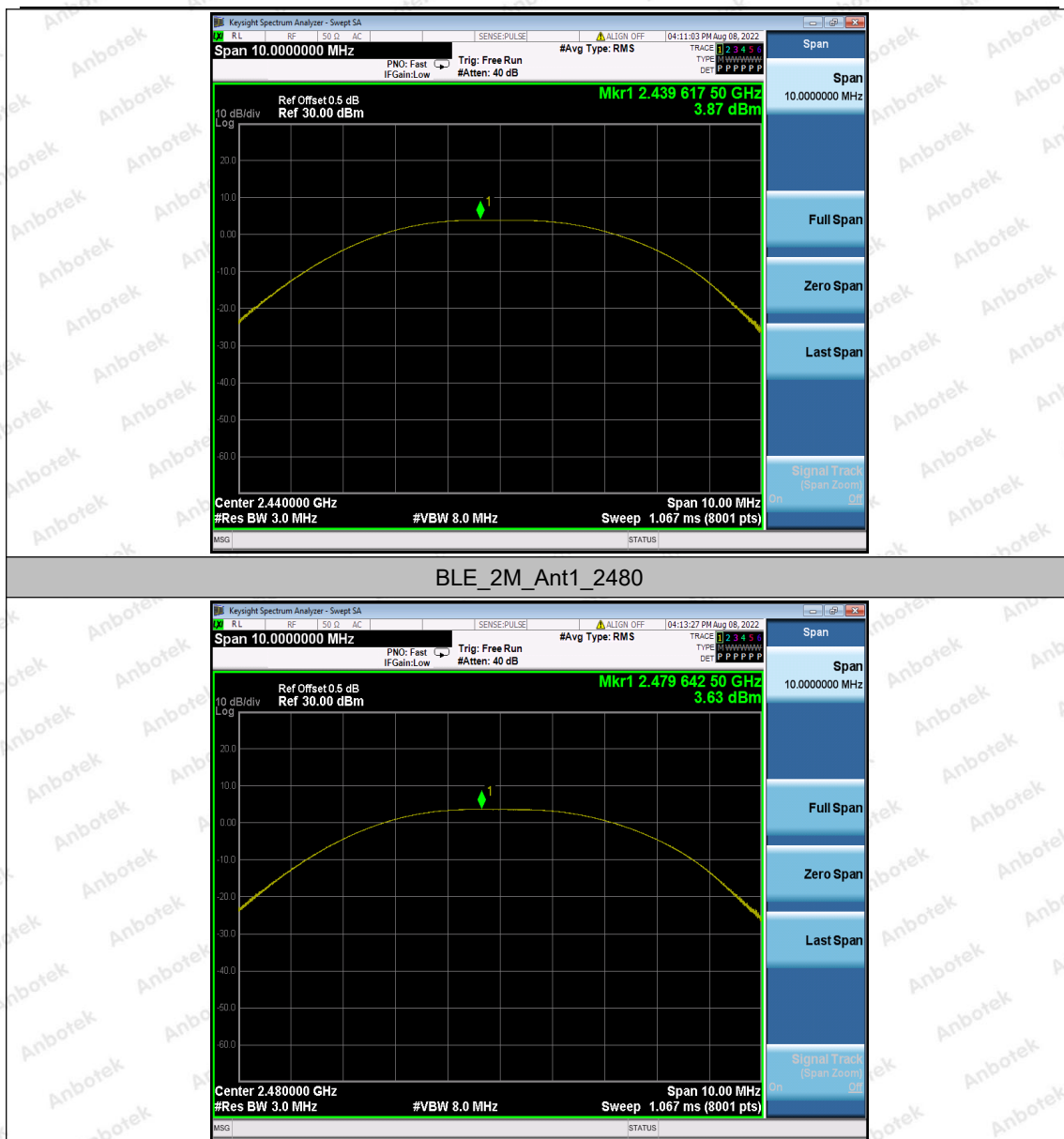


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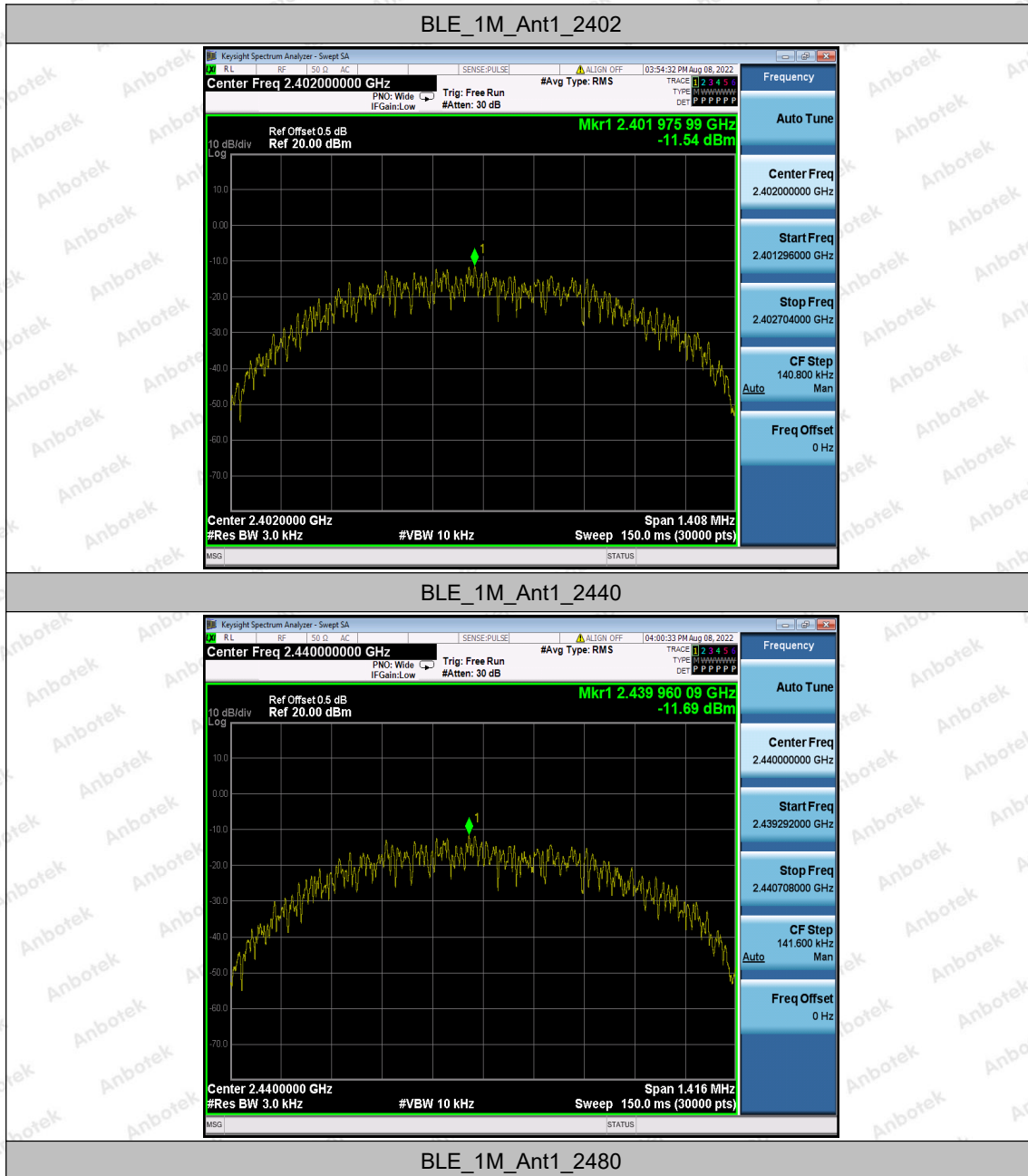
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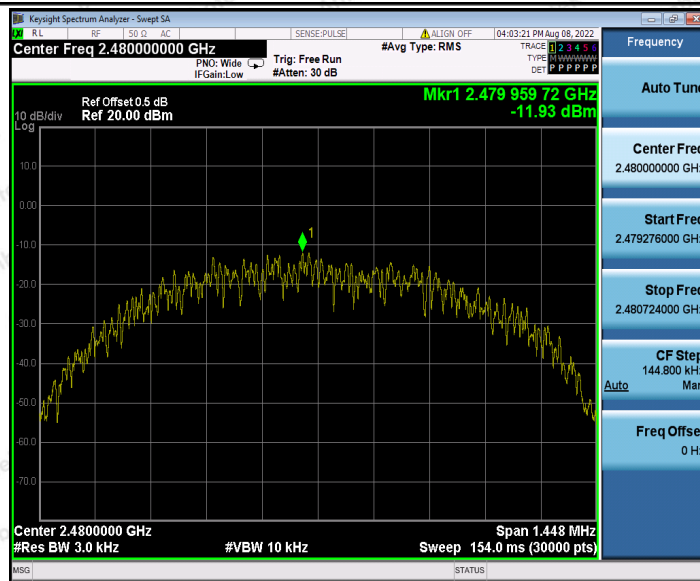
Appendix D: Maximum power spectral density

Test Result

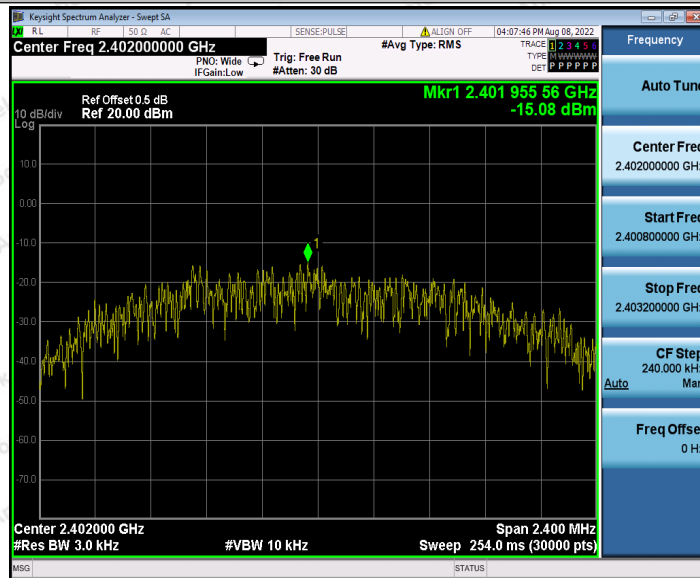
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.54	≤8.00	PASS
		2440	-11.69	≤8.00	PASS
		2480	-11.93	≤8.00	PASS
BLE_2M	Ant1	2402	-15.08	≤8.00	PASS
		2440	-15.24	≤8.00	PASS
		2480	-15.4	≤8.00	PASS

Test Graphs





BLE_2M_Ant1_2402



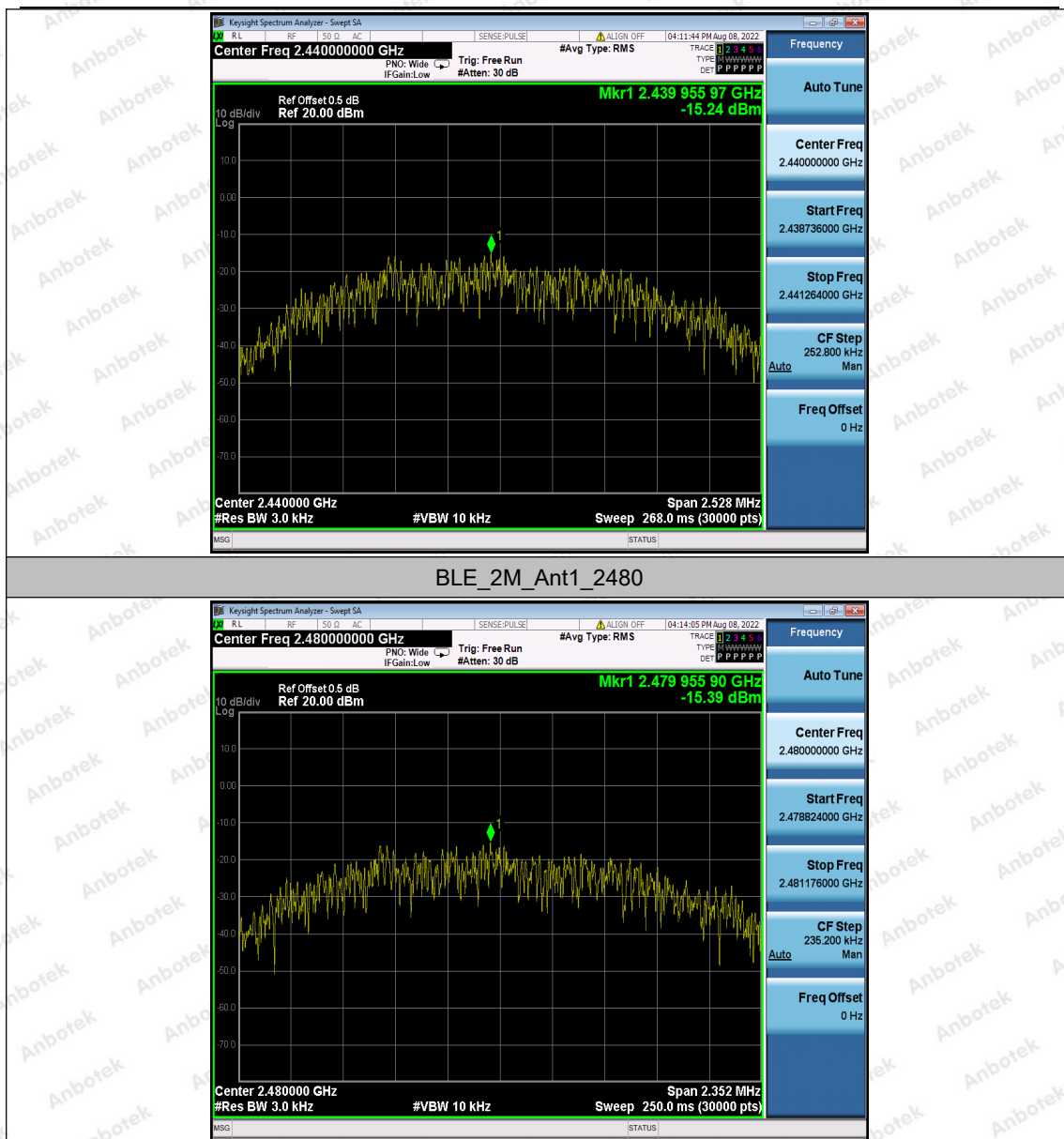
BLE_2M_Ant1_2440

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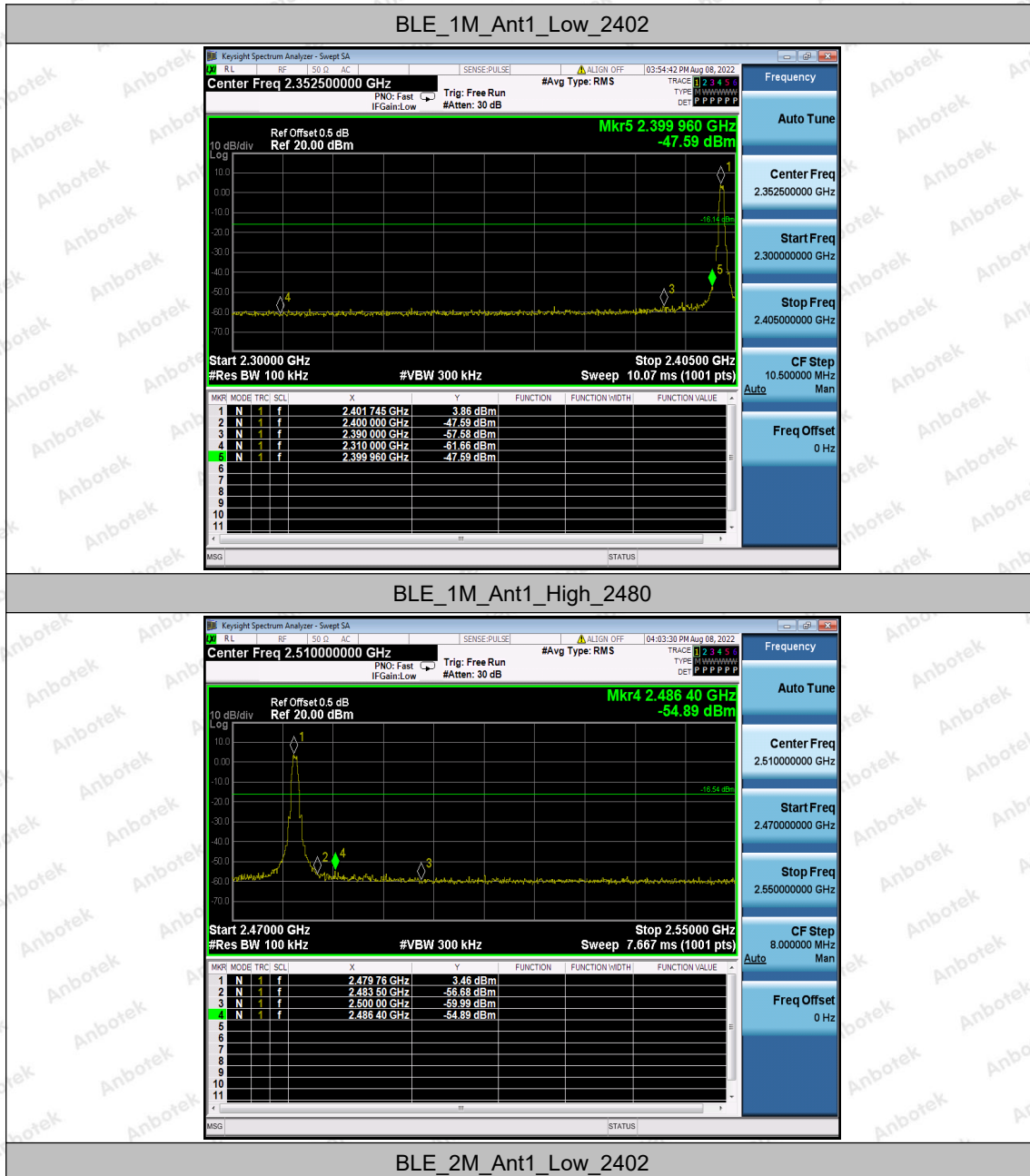
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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.86	-47.59	≤-16.14	PASS
		High	2480	3.46	-54.89	≤-16.54	PASS
BLE_2M	Ant1	Low	2402	3.56	-27.44	≤-16.44	PASS
		High	2480	3.41	-53.28	≤-16.59	PASS

Test Graphs



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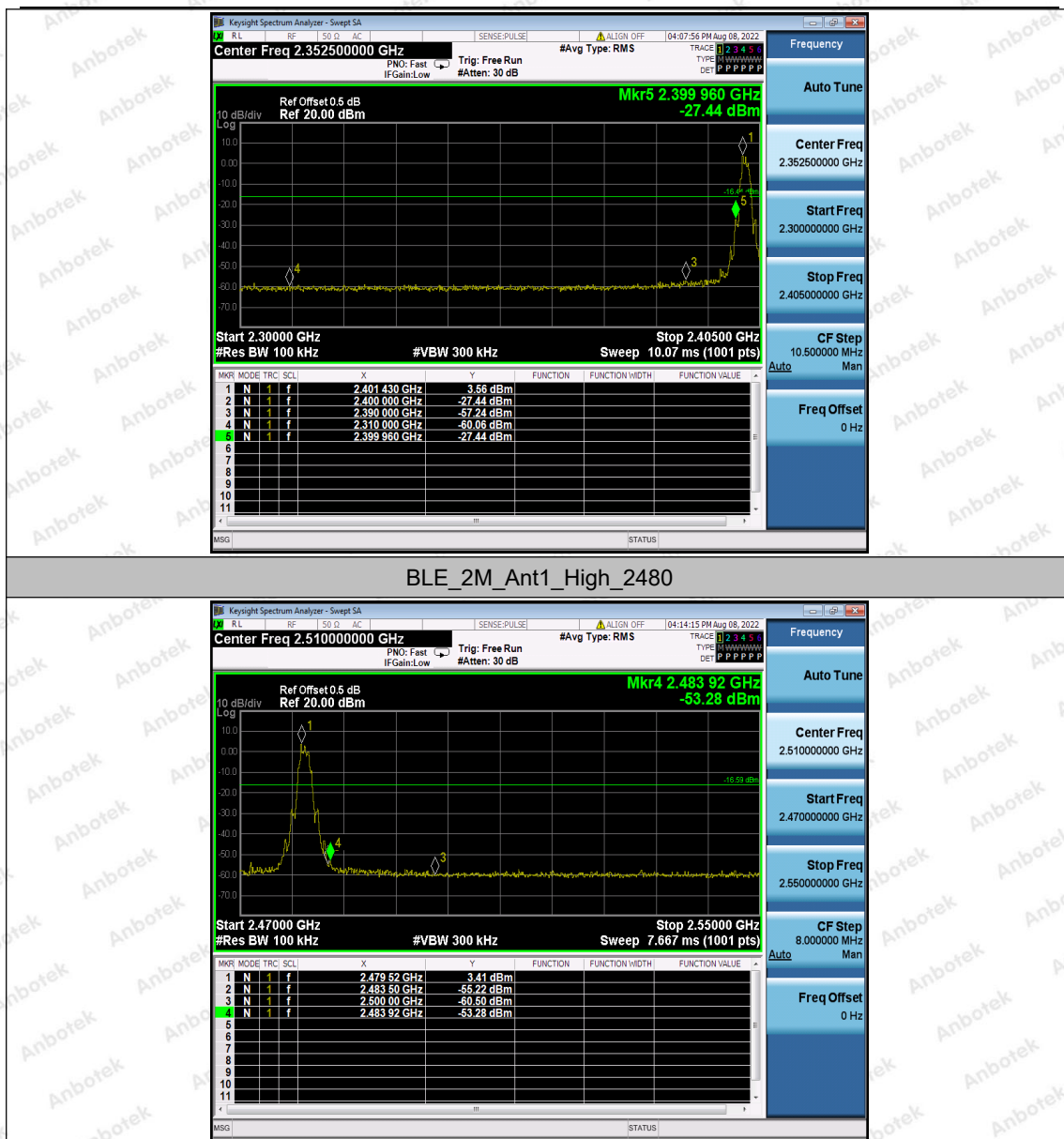
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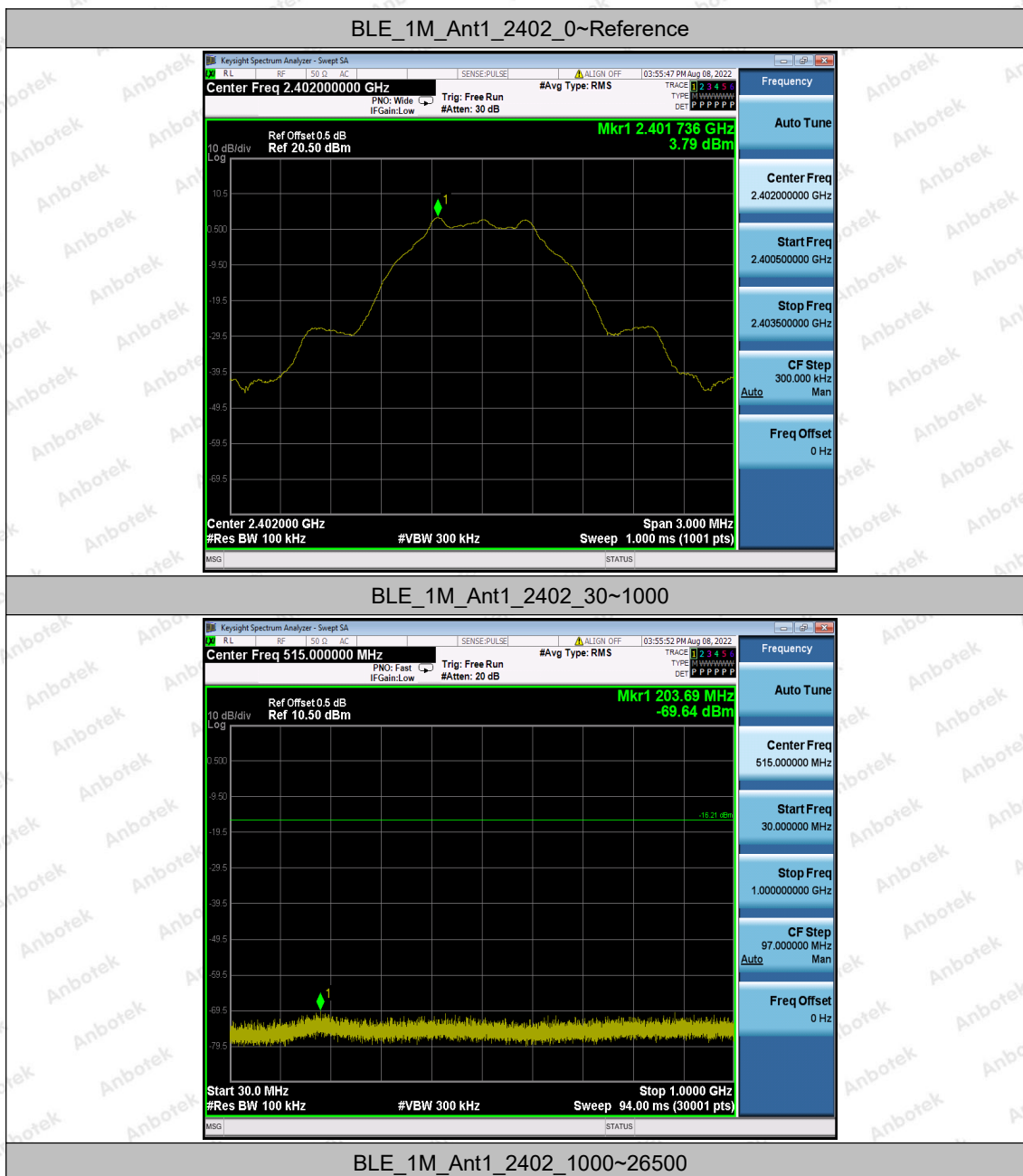
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.79	3.79	---	PASS
			30~1000	3.79	-69.64	≤-16.21	PASS
			1000~26500	3.79	-45.45	≤-16.21	PASS
		2440	Reference	3.60	3.60	---	PASS
			30~1000	3.60	-69.23	≤-16.4	PASS
			1000~26500	3.60	-44.76	≤-16.4	PASS
		2480	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-69.42	≤-16.63	PASS
			1000~26500	3.37	-44.7	≤-16.63	PASS
BLE_2M	Ant1	2402	Reference	3.72	3.72	---	PASS
			30~1000	3.72	-69.25	≤-16.28	PASS
			1000~26500	3.72	-45.07	≤-16.28	PASS
		2440	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-69.45	≤-16.47	PASS
			1000~26500	3.53	-45.53	≤-16.47	PASS
		2480	Reference	3.31	3.31	---	PASS
			30~1000	3.31	-69.38	≤-16.69	PASS
			1000~26500	3.31	-45.79	≤-16.69	PASS

Test Graphs

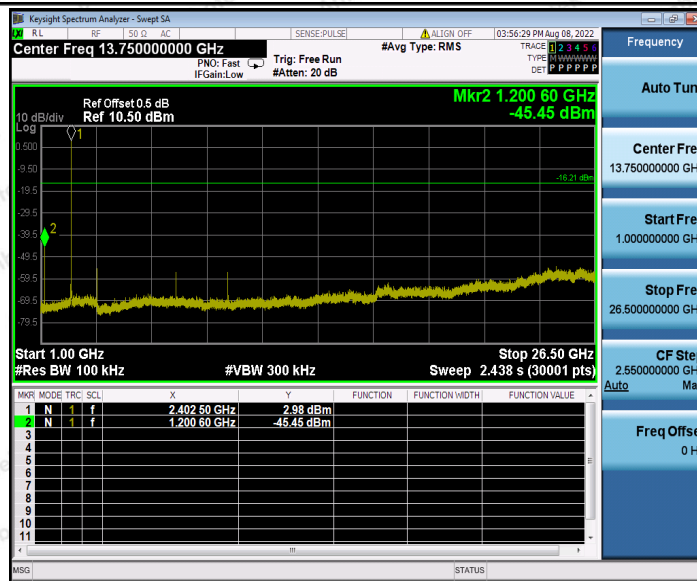


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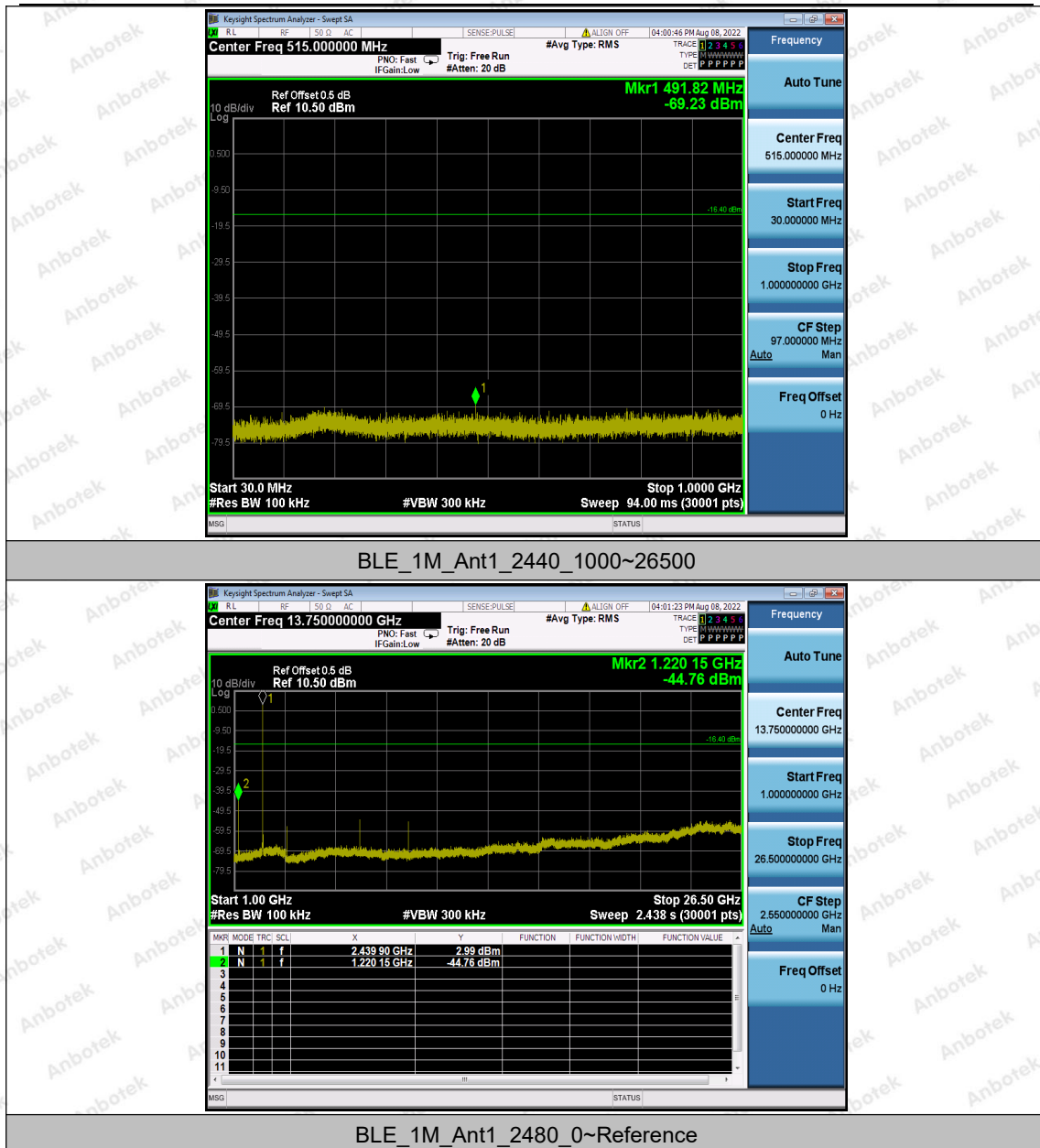
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BLE_1M_Ant1_2440_0~Reference



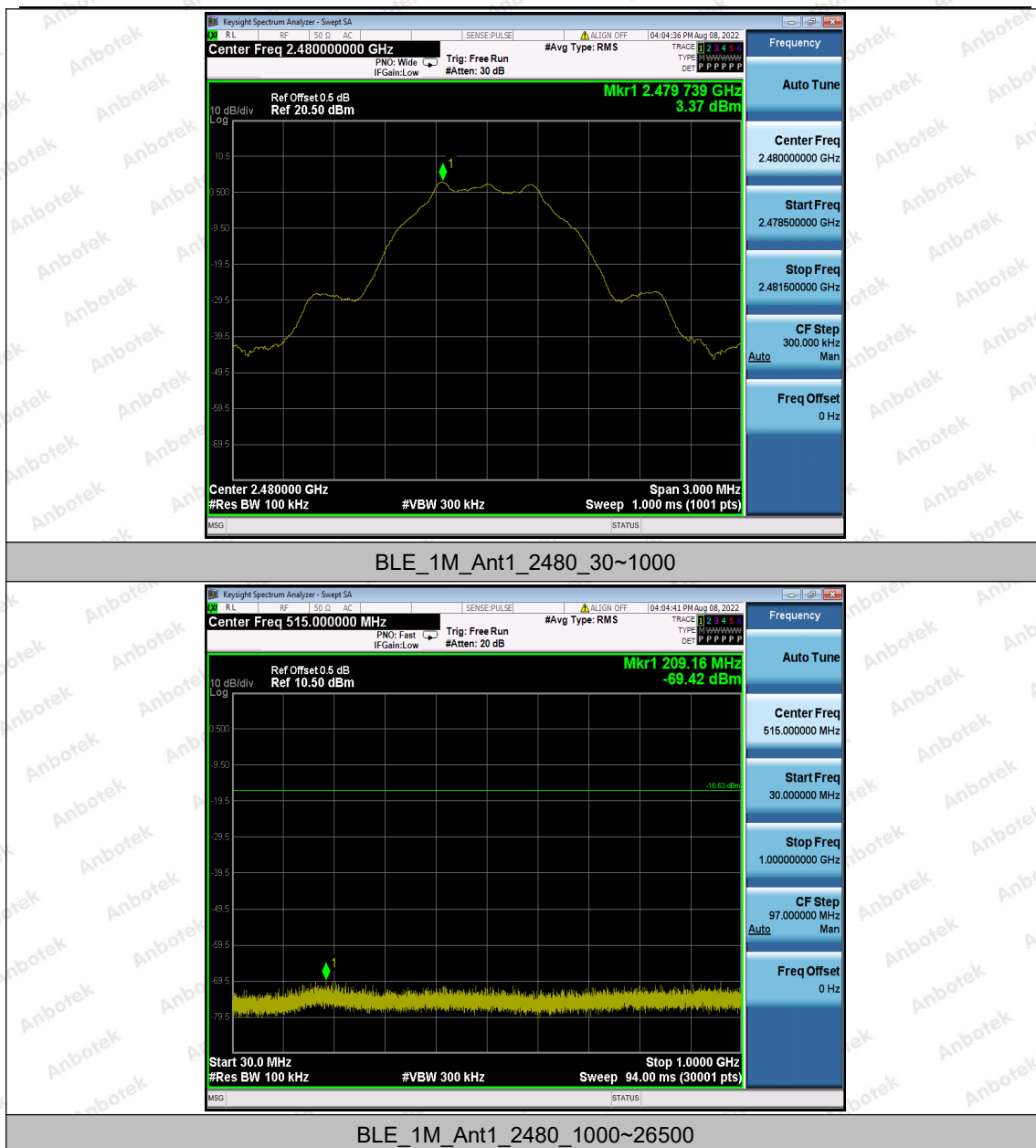
BLE_1M_Ant1_2440_30~1000



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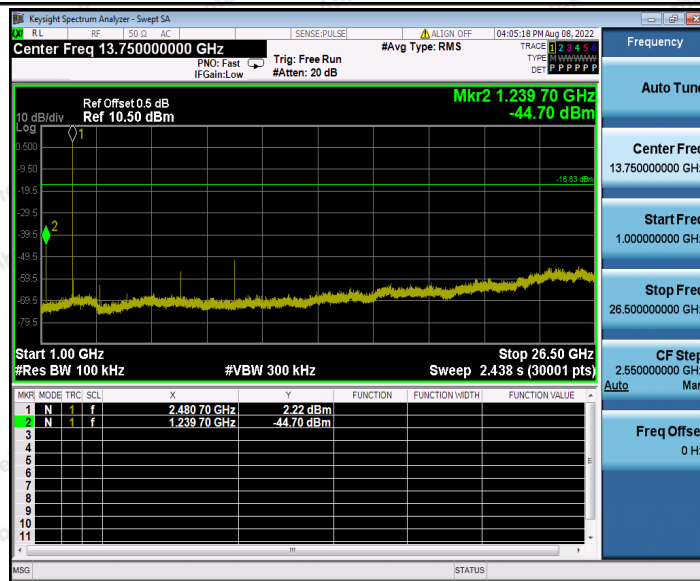
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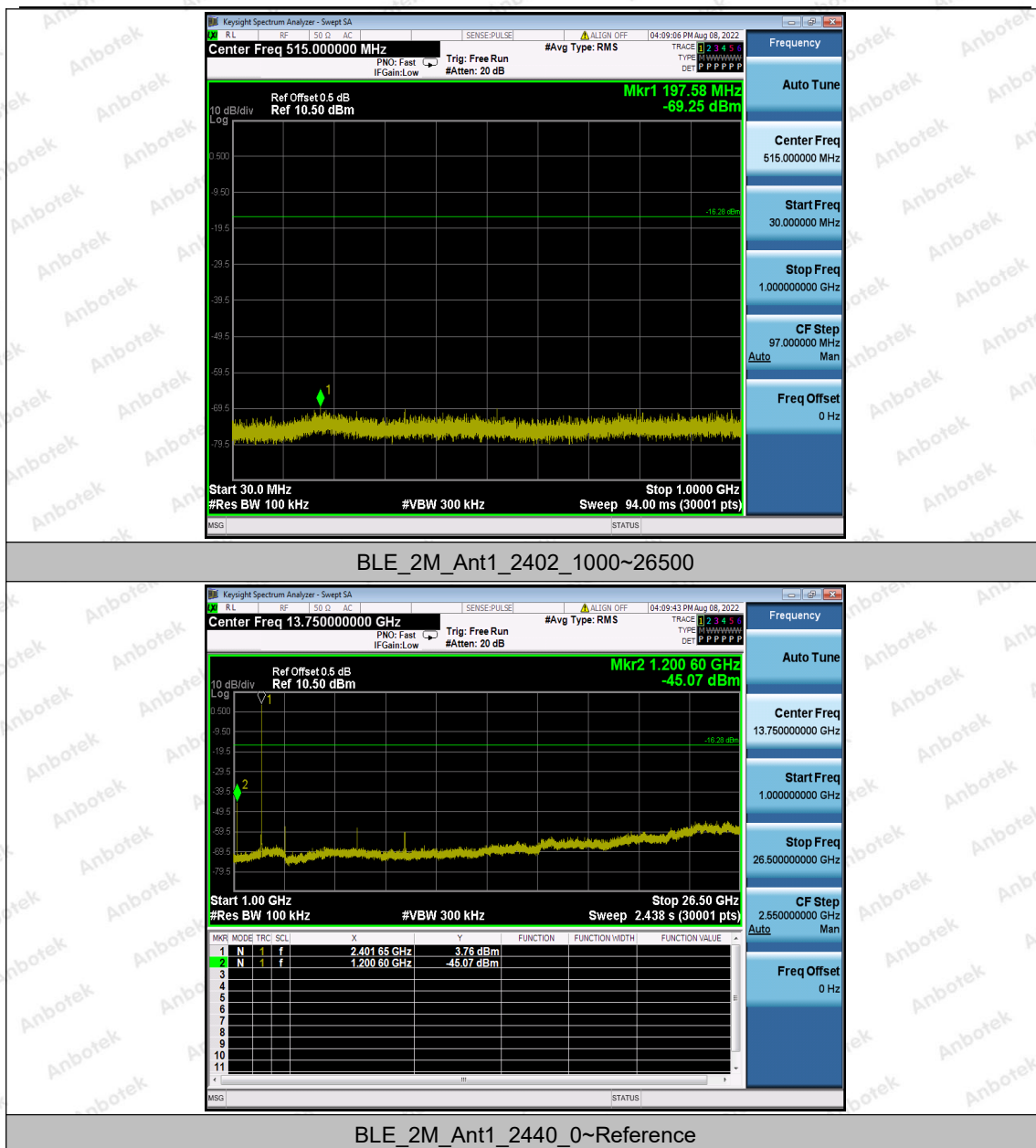
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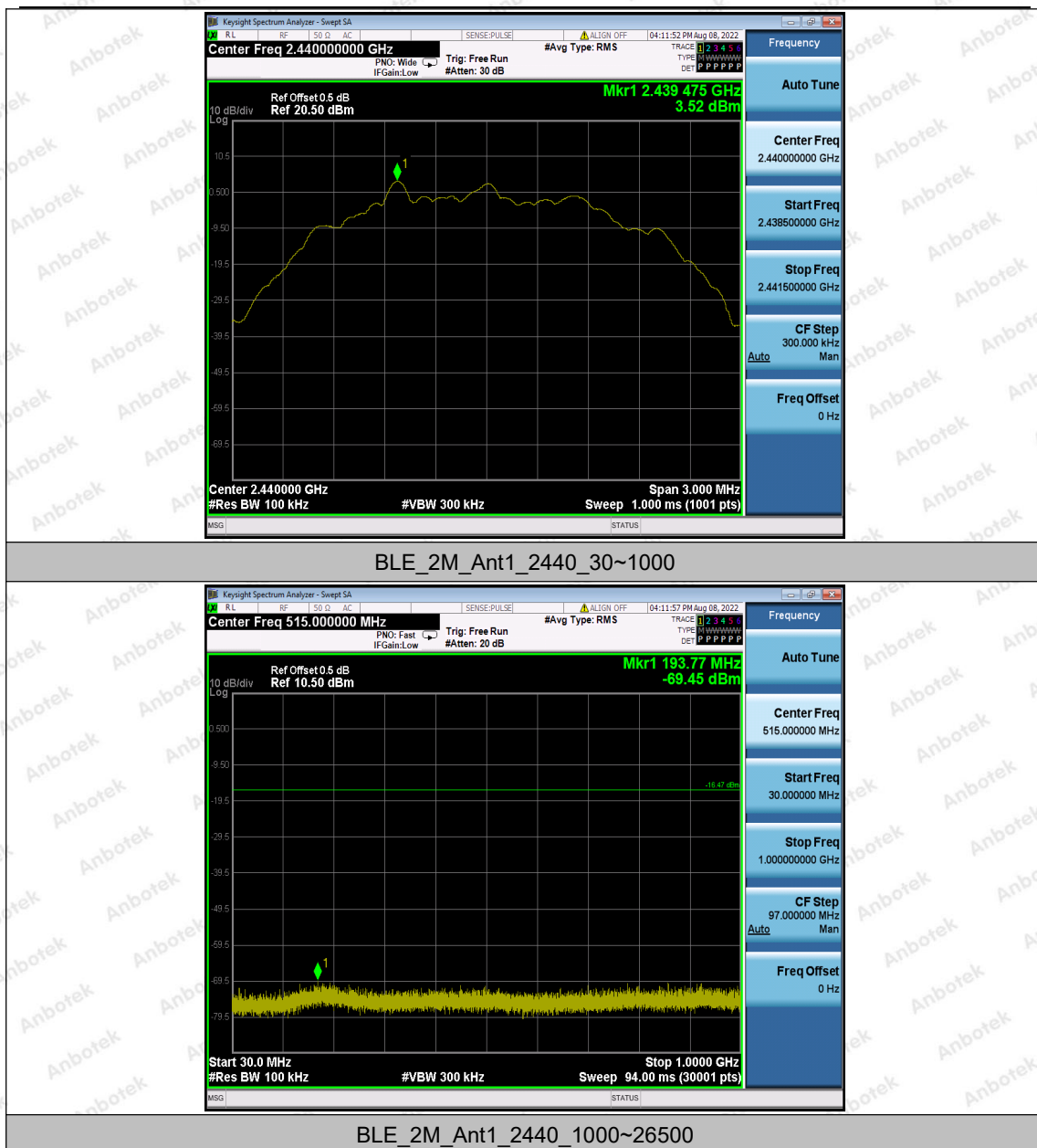


BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



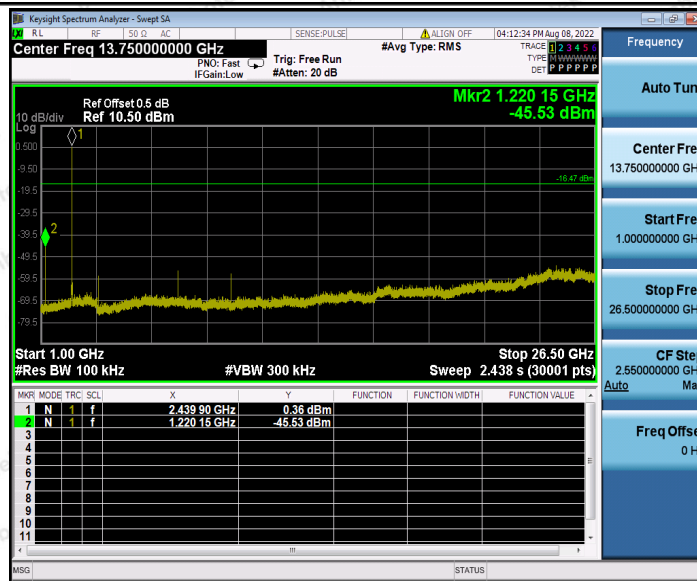


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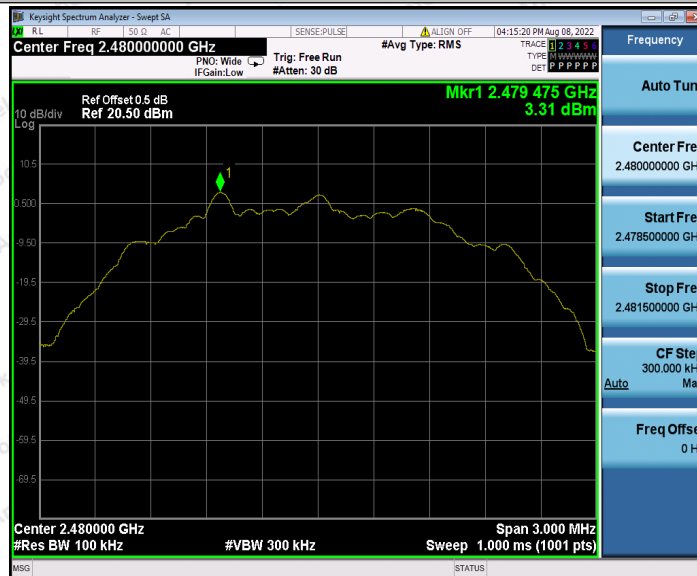
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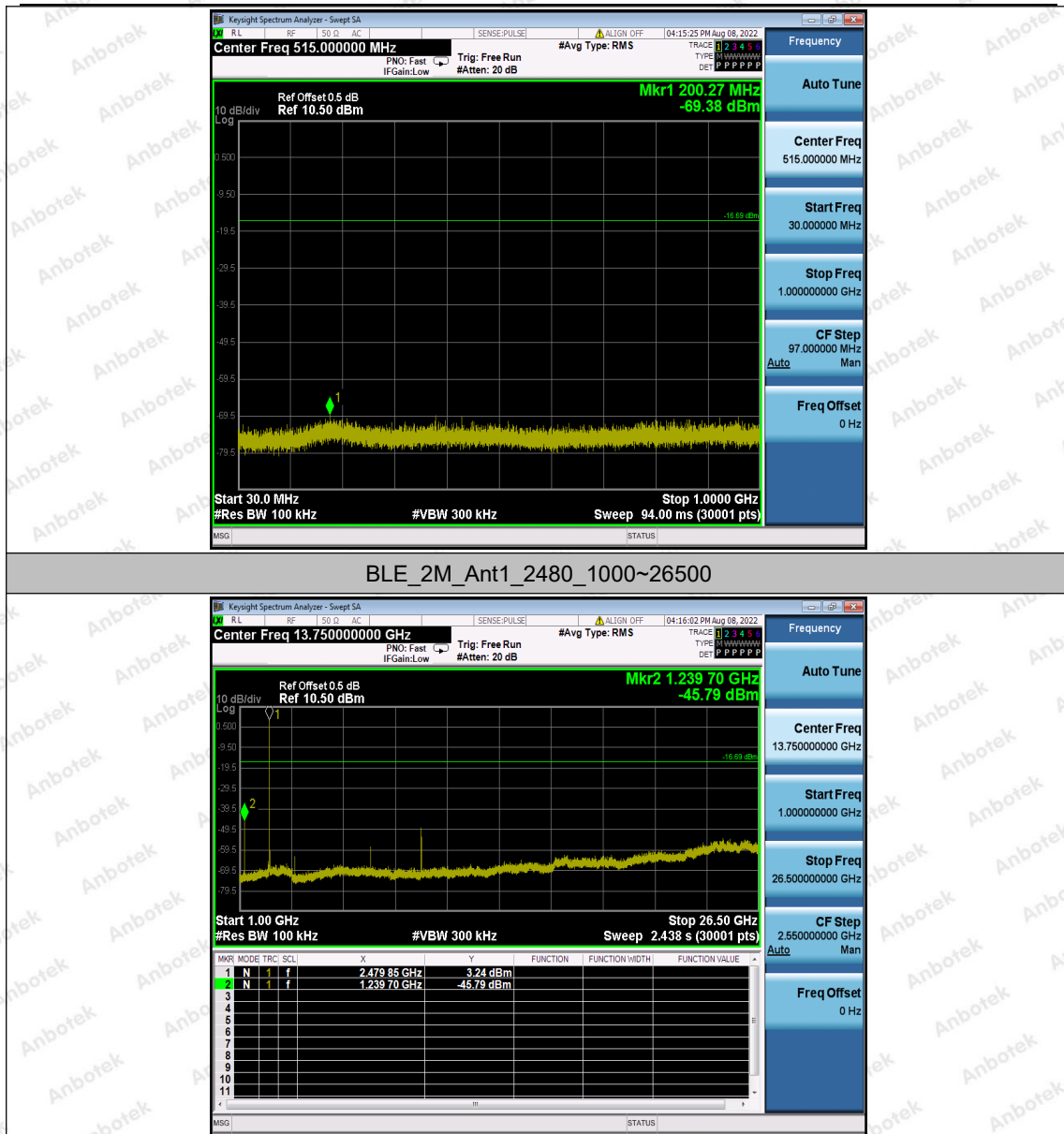
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



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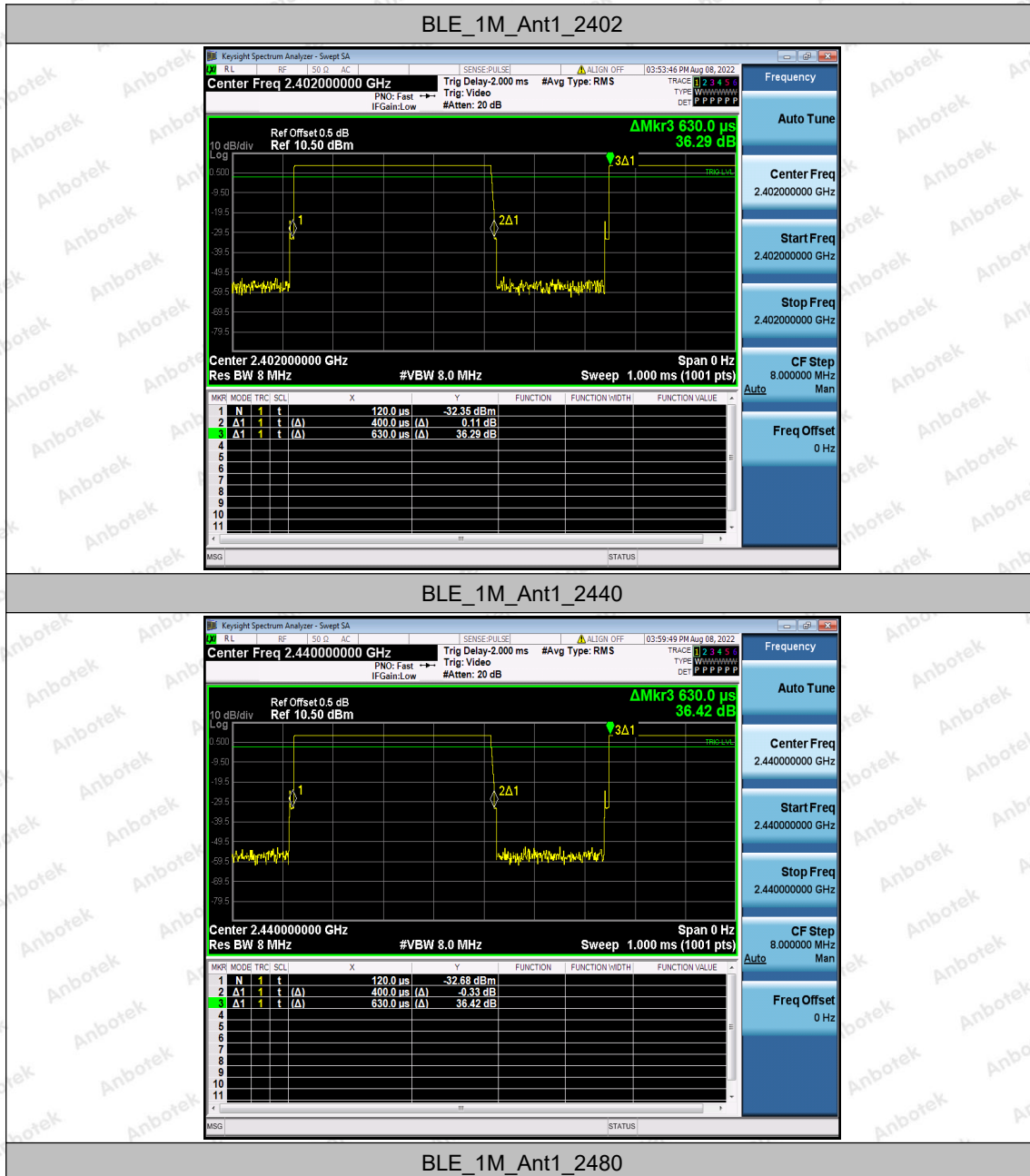
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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	3.94
		2440	0.40	0.63	63.49	3.94
		2480	0.40	0.63	63.49	3.94
BLE_2M	Ant1	2402	0.21	0.63	33.33	9.54
		2440	0.21	0.63	33.33	9.54
		2480	0.21	0.63	33.33	9.54

Test Graphs



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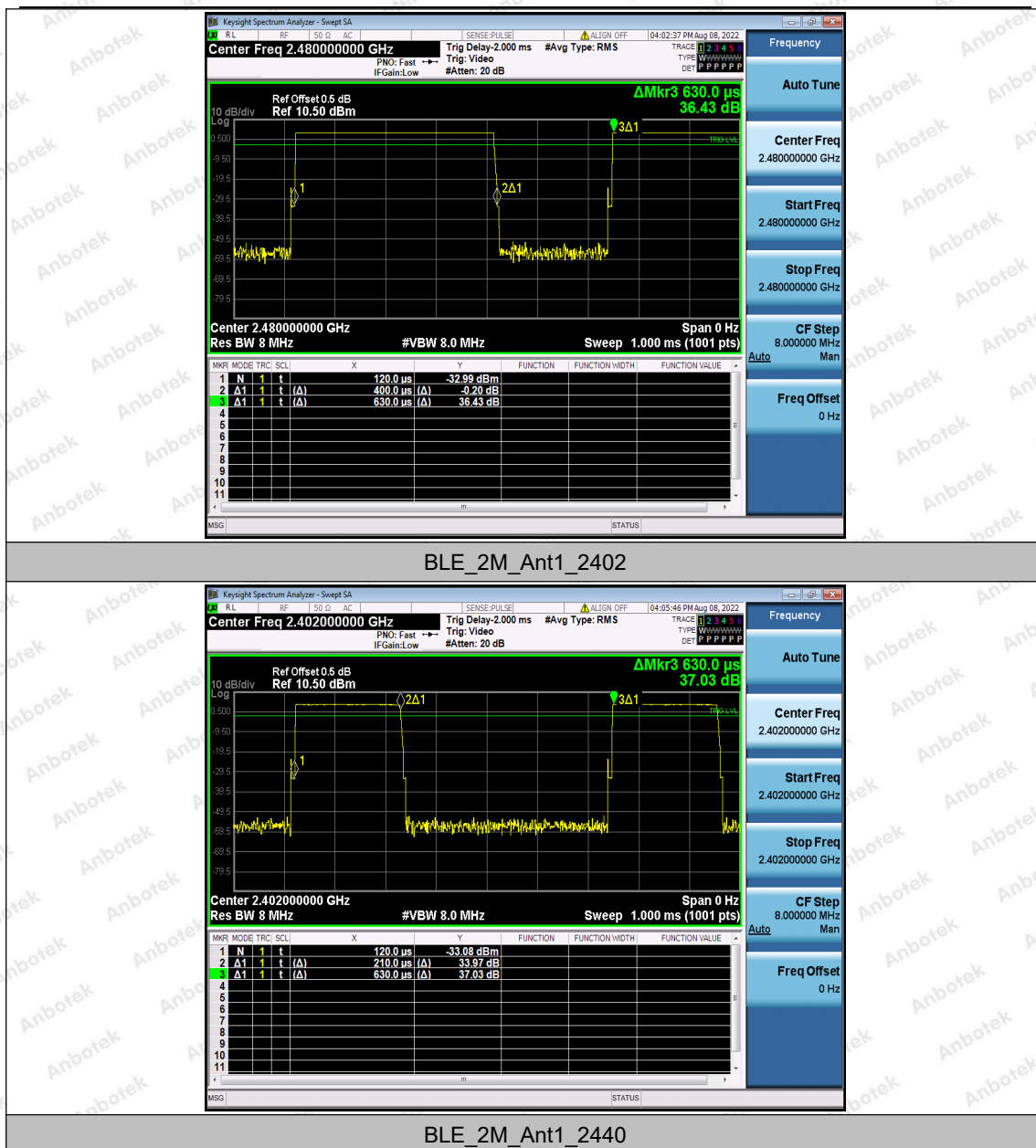
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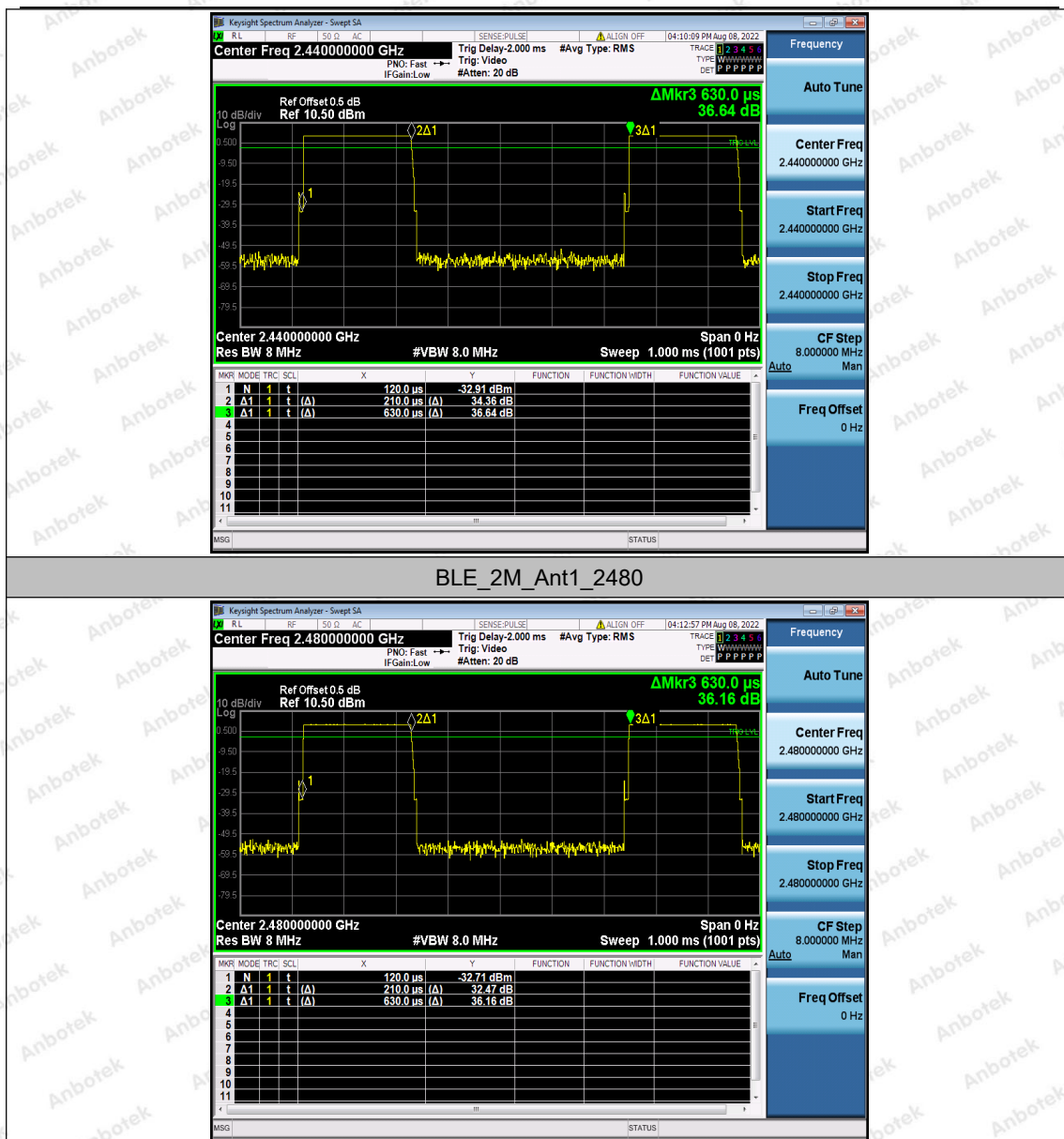


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