

Appendix Test Data

Report No.:	18220WC30132601	Test Sample No.:	1-2-2
Start Test Date:	2023.06.29	Finish Test Date:	2023.06.30
Test Engineer:	Rick Luo	Auditor:	Edward Pan
Temperature:	25.2°C	Relative Humidity:	50%
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	0.716	2401.656	2402.372	0.5	PASS
		2440	0.708	2439.676	2440.384	0.5	PASS
		2480	0.756	2479.644	2480.400	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.464	2402.584	0.5	PASS
		2440	1.116	2439.460	2440.576	0.5	PASS
		2480	1.124	2479.452	2480.576	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	1.1244	2401.4507	2402.5751
		2440	1.1367	2439.4433	2440.5800
		2480	1.1465	2479.4440	2480.5905
BLE_2M	Ant1	2402	2.0769	2400.9937	2403.0706
		2440	2.0698	2438.9964	2441.0662
		2480	2.0759	2478.9919	2481.0678



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 C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.95	≤30	PASS
		2440	0.47	≤30	PASS
		2480	0.27	≤30	PASS
BLE_2M	Ant1	2402	0.96	≤30	PASS
		2440	0.43	≤30	PASS
		2480	0.27	≤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



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	-15.63	≤8.00	PASS
		2440	-16.43	≤8.00	PASS
		2480	-16.95	≤8.00	PASS
BLE_2M	Ant1	2402	-18.33	≤8.00	PASS
		2440	-18.71	≤8.00	PASS
		2480	-18.96	≤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

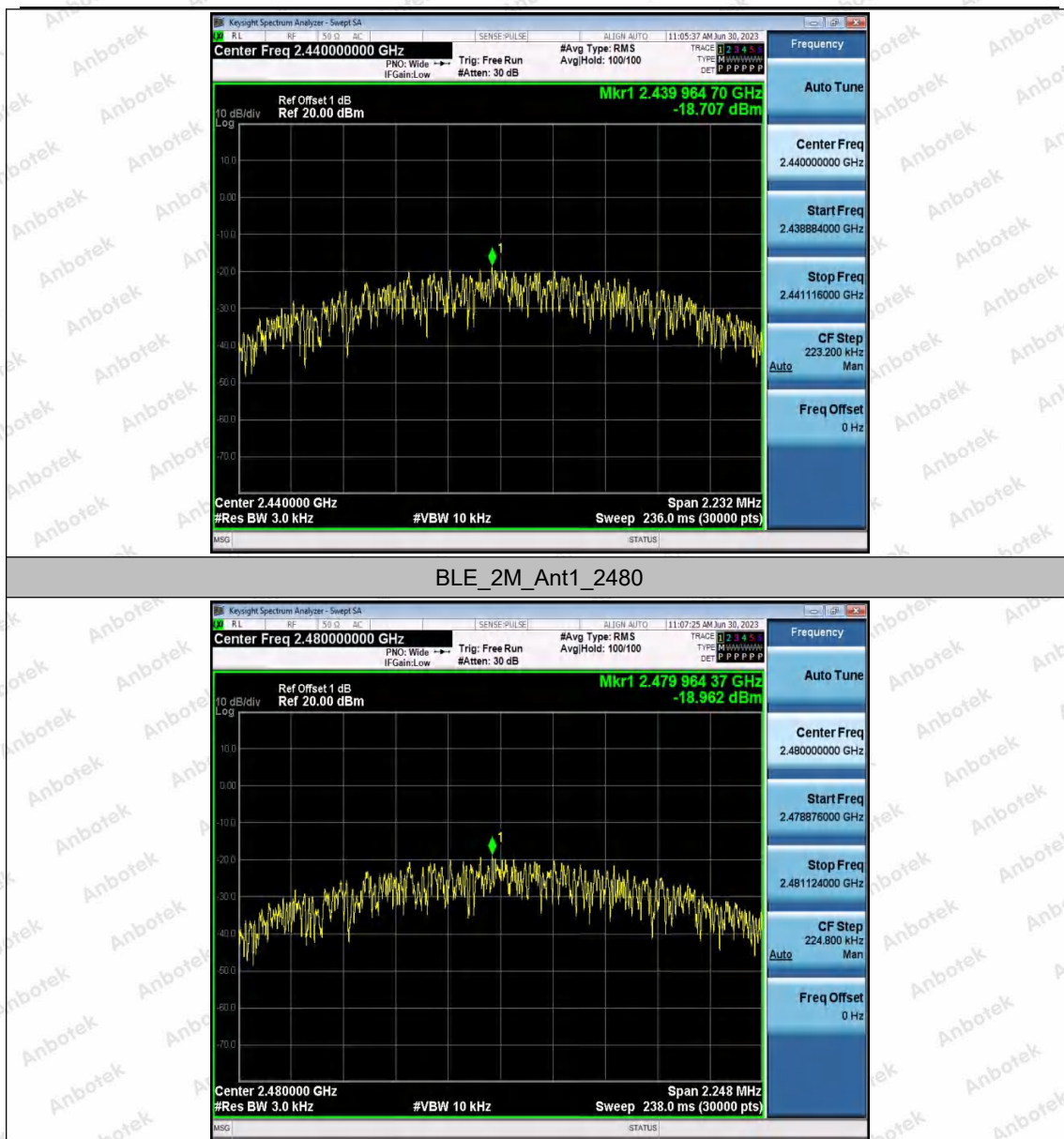
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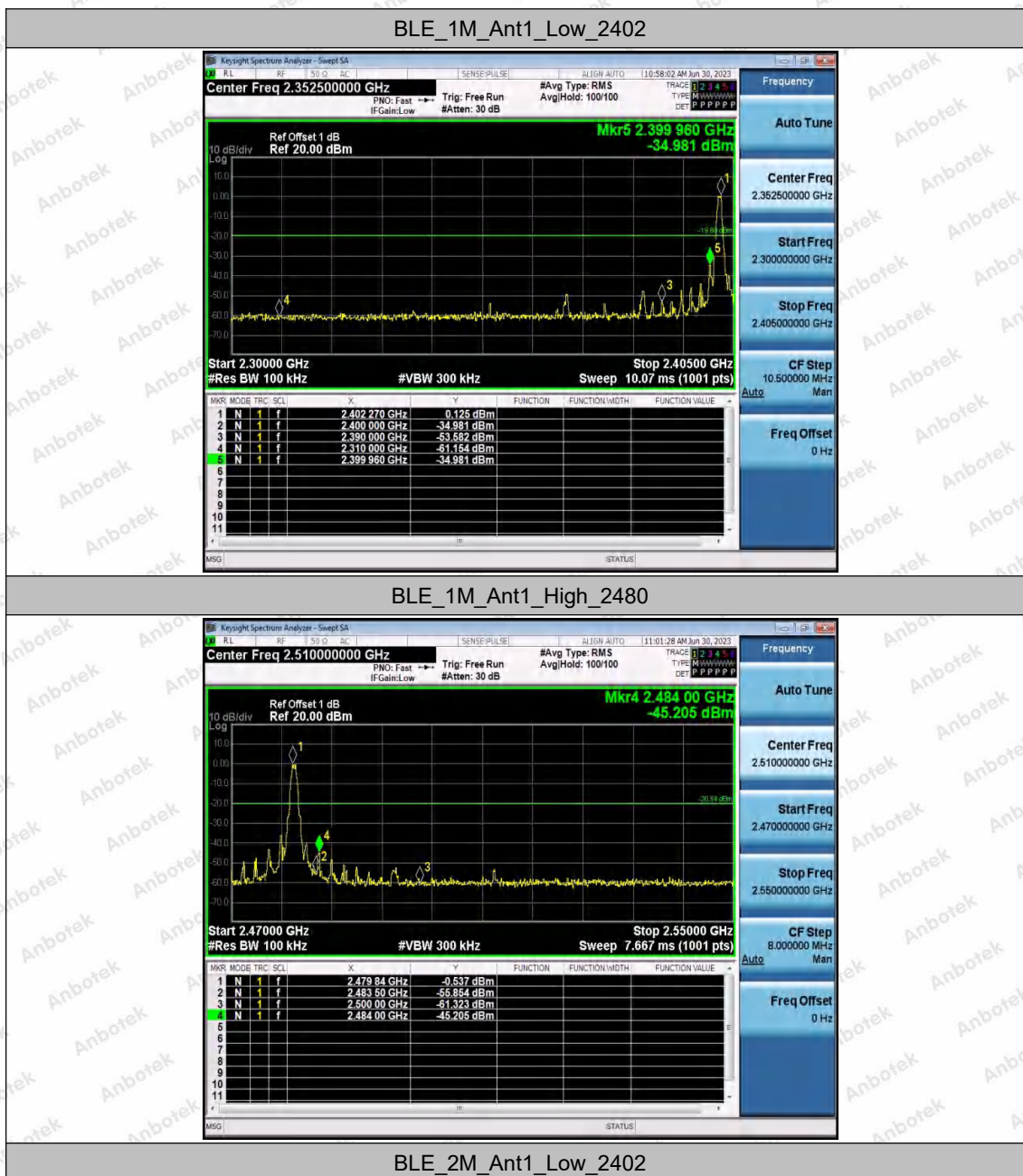
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.13	-34.98	≤-19.88	PASS
		High	2480	-0.54	-45.21	≤-20.54	PASS
BLE_2M	Ant1	Low	2402	0.20	-34.78	≤-19.8	PASS
		High	2480	-0.69	-45.93	≤-20.69	PASS



Test Graphs



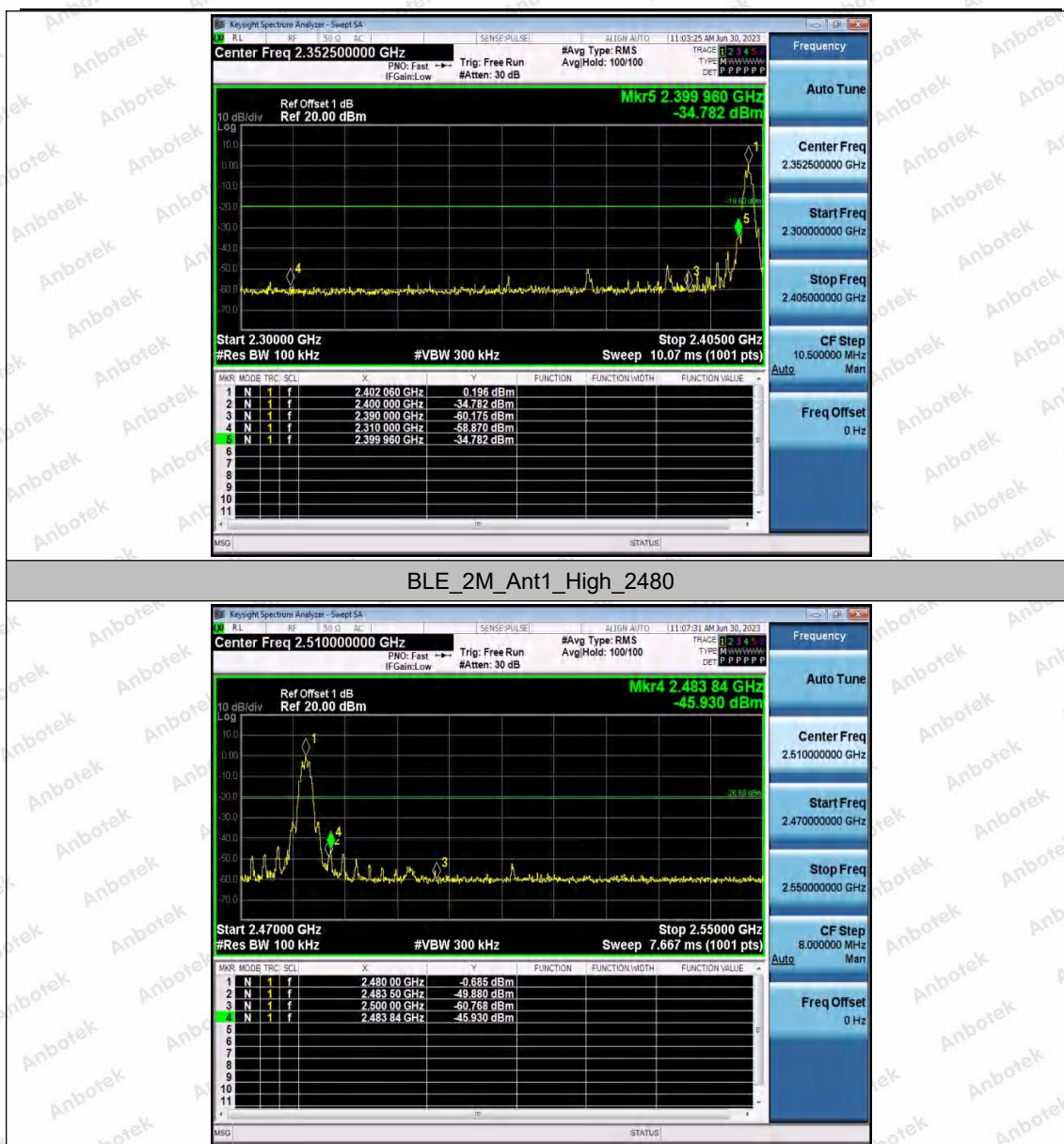
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.00	0.00	---	PASS
			30~1000	0.00	-67.63	≤-20	PASS
			1000~26500	0.00	-37.87	≤-20	PASS
		2440	Reference	0.06	0.06	---	PASS
			30~1000	0.06	-68.61	≤-19.94	PASS
			1000~26500	0.06	-38.42	≤-19.94	PASS
		2480	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-68.71	≤-20.59	PASS
			1000~26500	-0.59	-39.19	≤-20.59	PASS
BLE_2M	Ant1	2402	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-68.7	≤-22.17	PASS
			1000~26500	-2.17	-40.85	≤-22.17	PASS
		2440	Reference	-2.05	-2.05	---	PASS
			30~1000	-2.05	-67.47	≤-22.05	PASS
			1000~26500	-2.05	-38.42	≤-22.05	PASS
		2480	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-68.82	≤-22.21	PASS
			1000~26500	-2.21	-41.13	≤-22.21	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

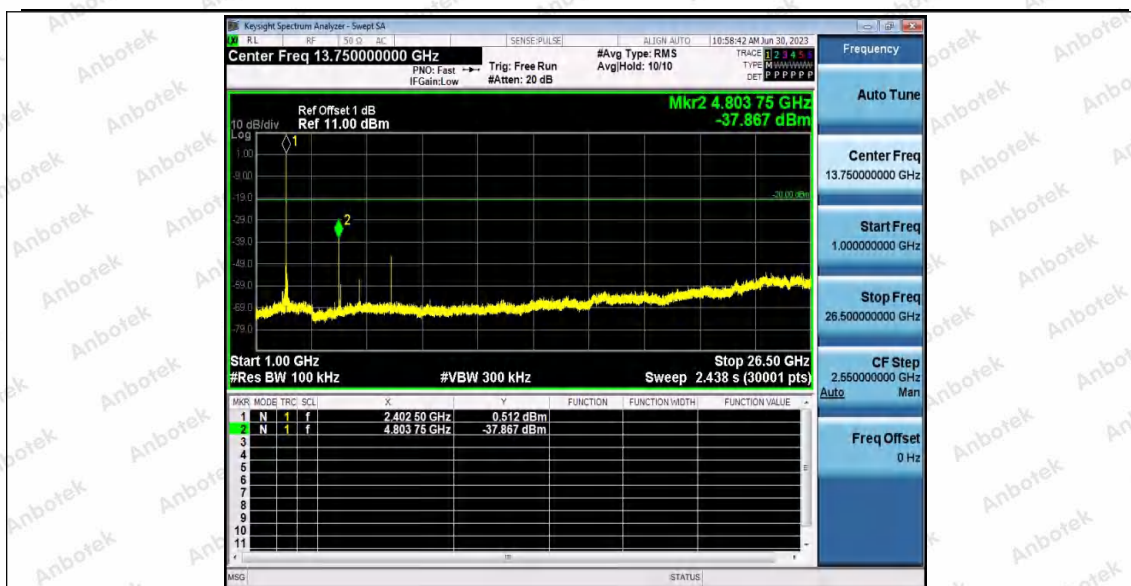
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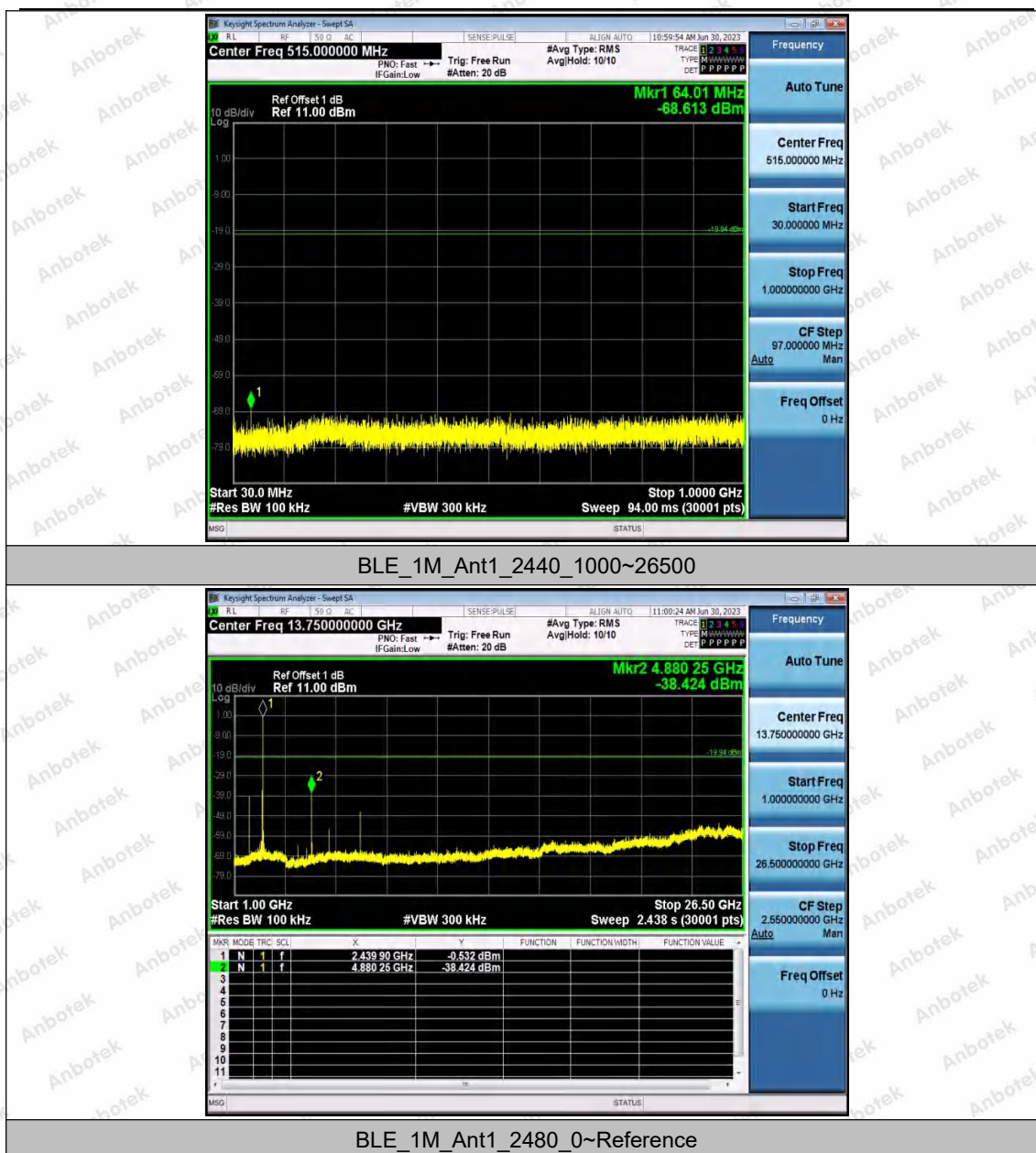


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



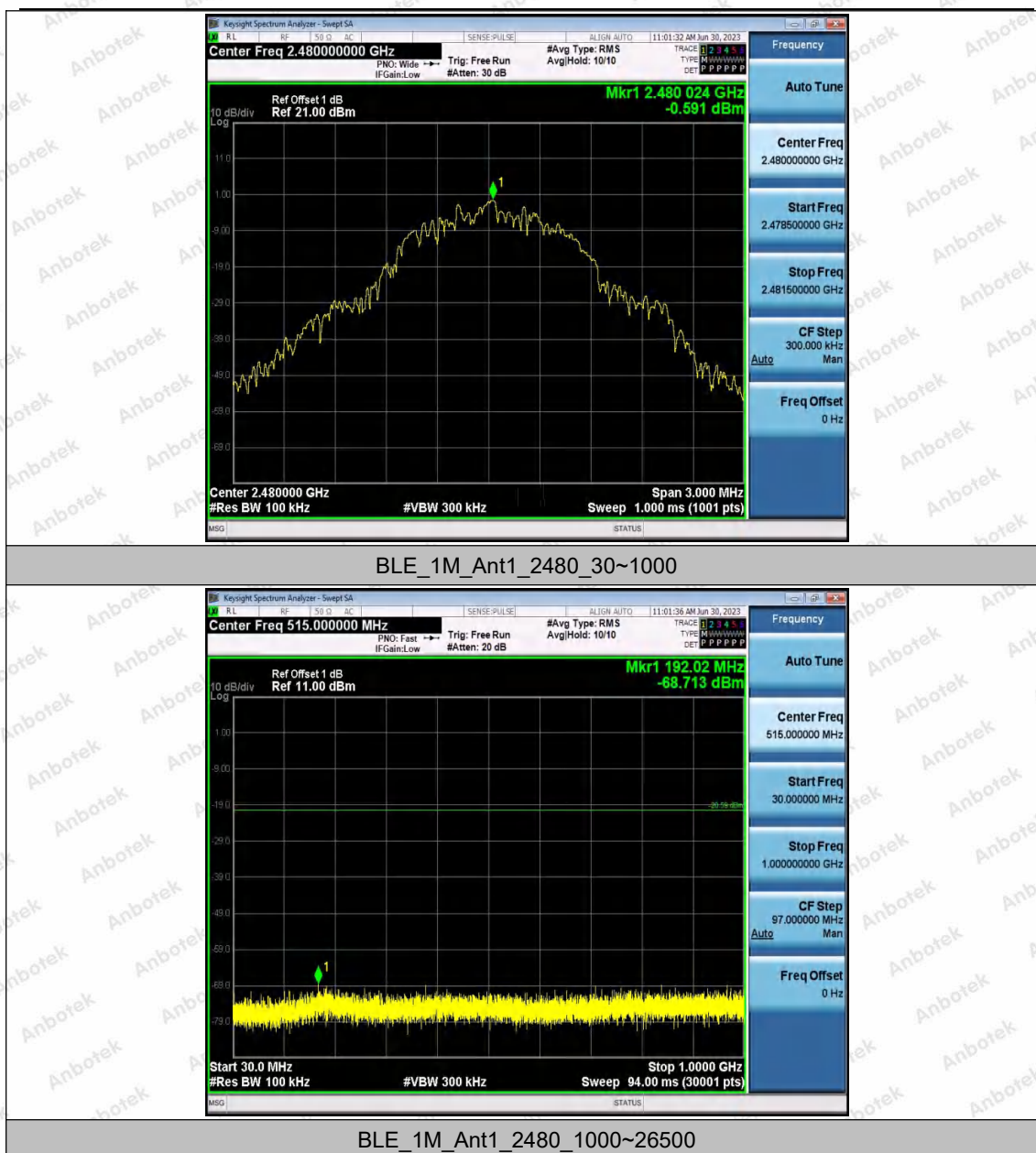
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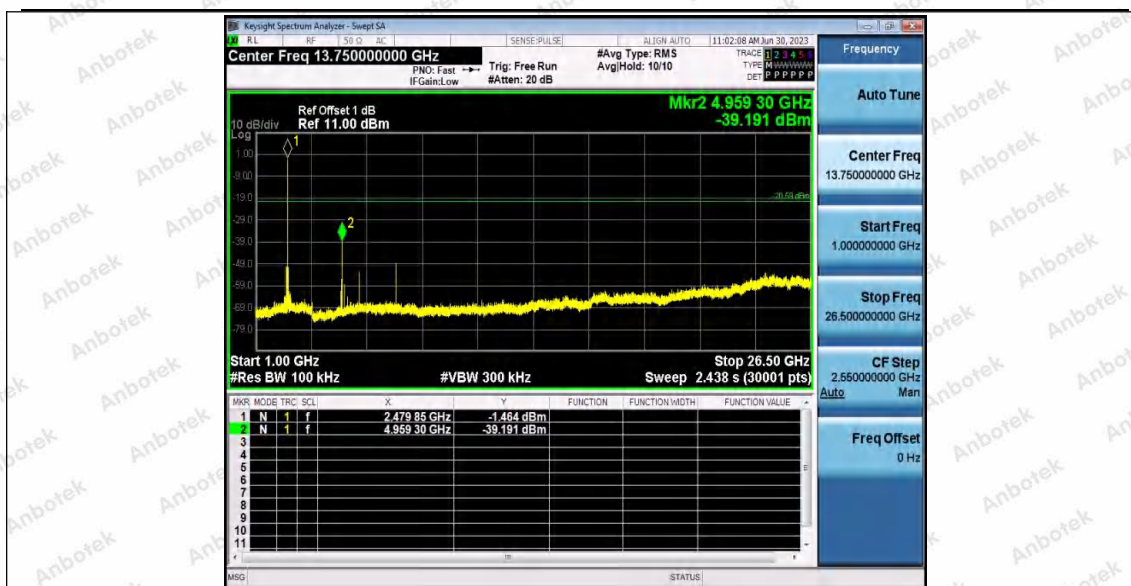
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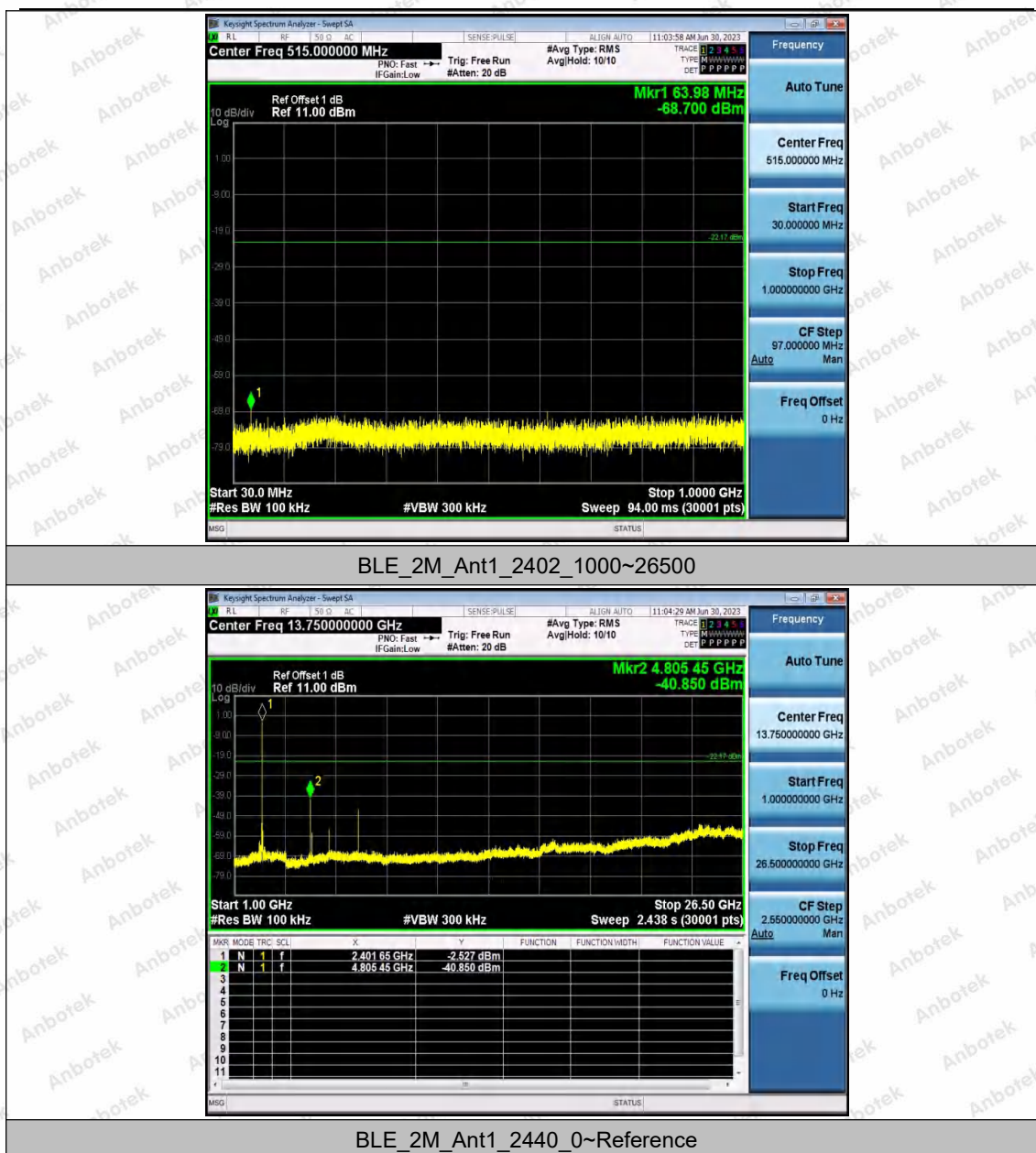


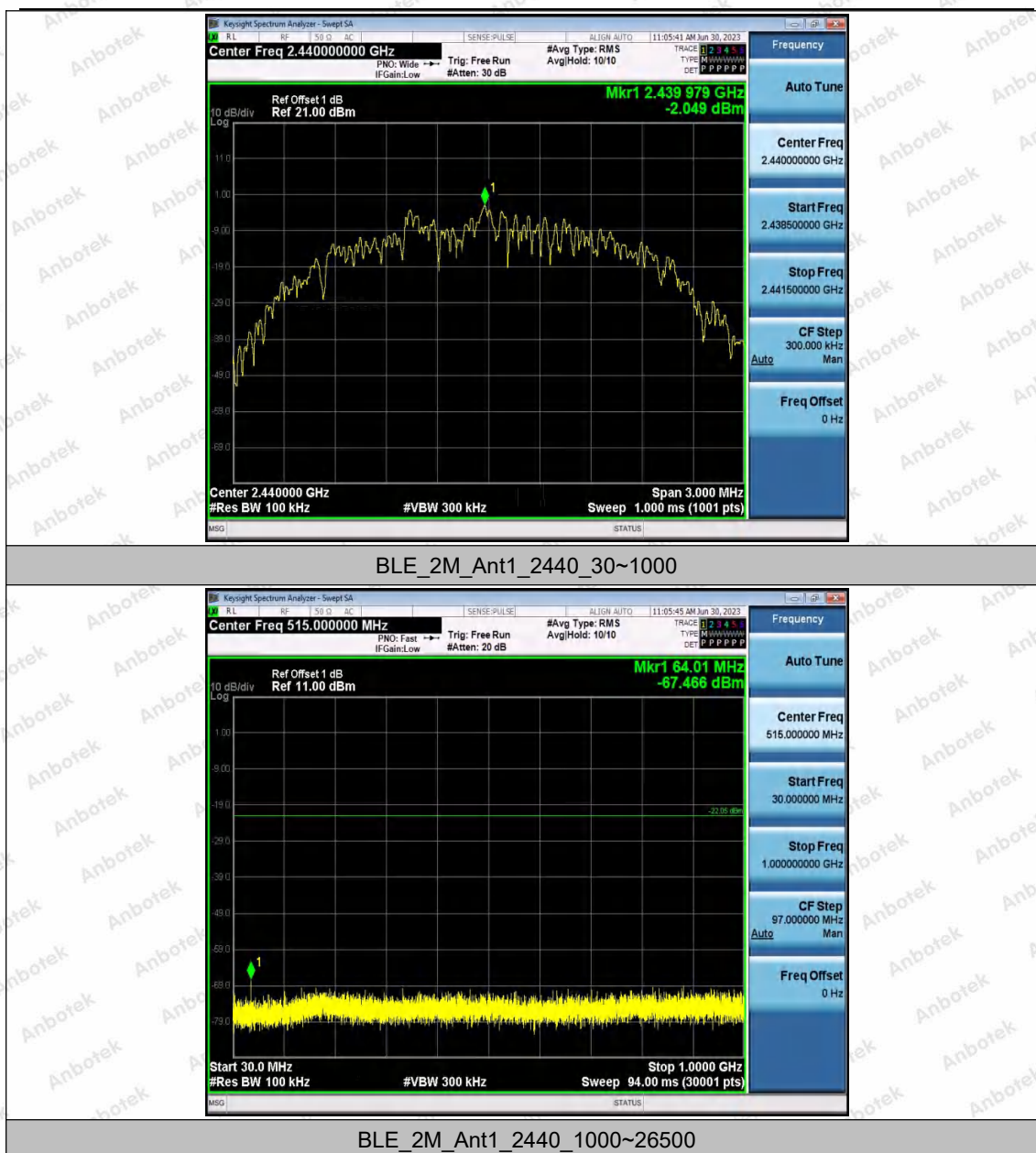
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BLE_2M_Ant1_2402_30~1000





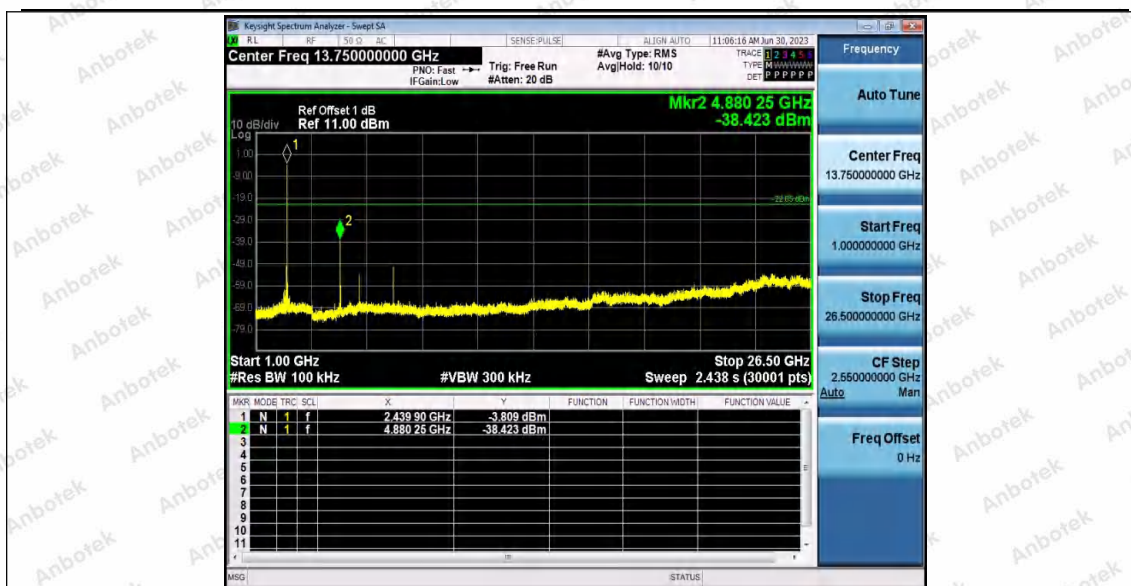
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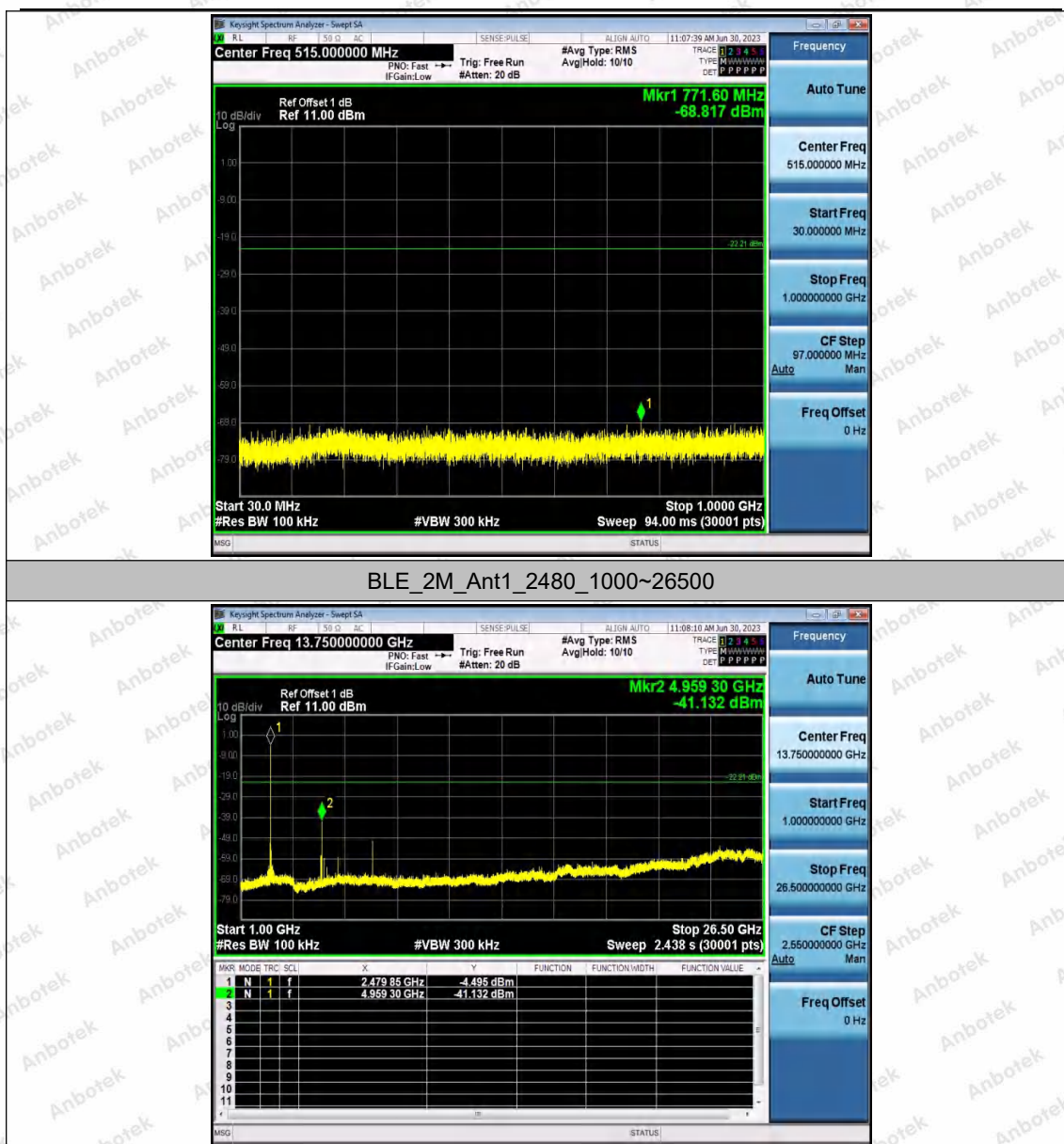


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

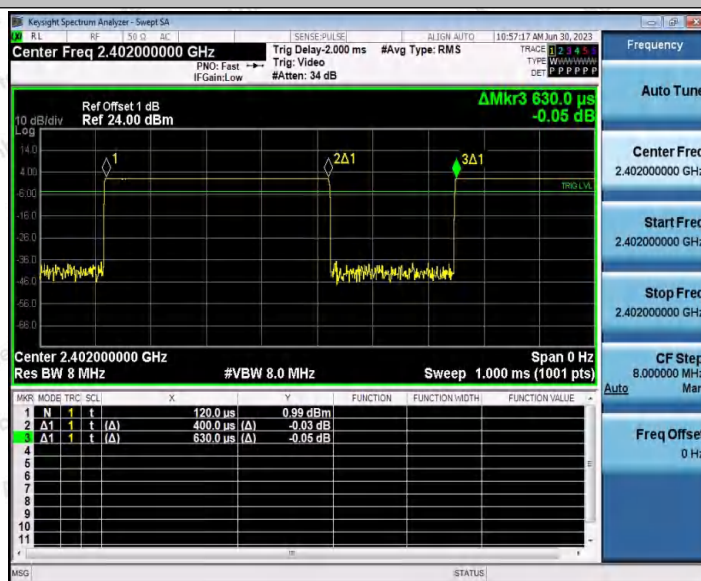
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
		2440	0.40	0.62	64.52	1.90
		2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91
		2440	0.20	0.63	31.75	4.98
		2480	0.20	0.62	32.26	4.91



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

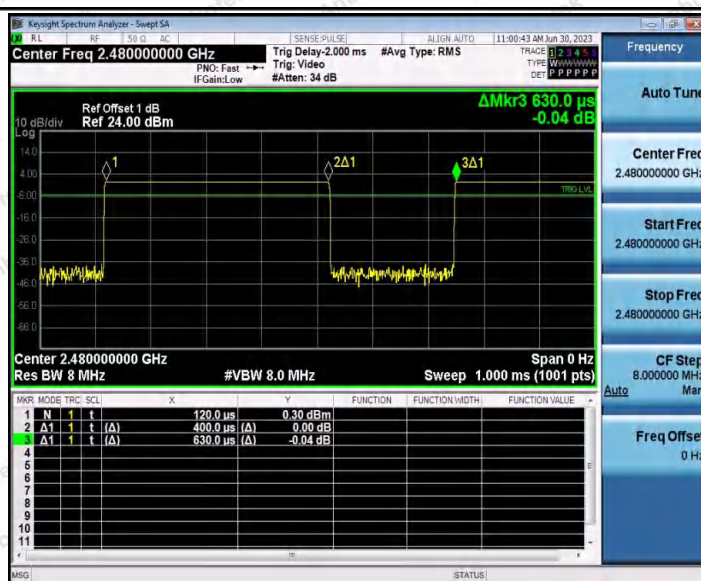
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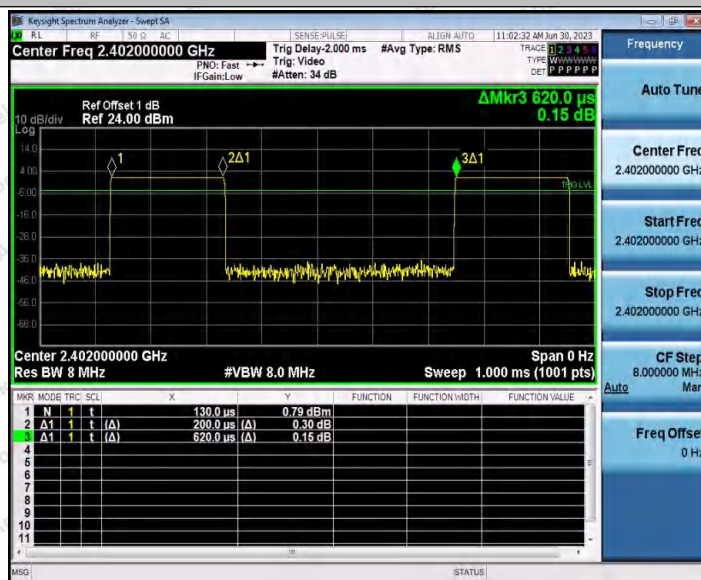


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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

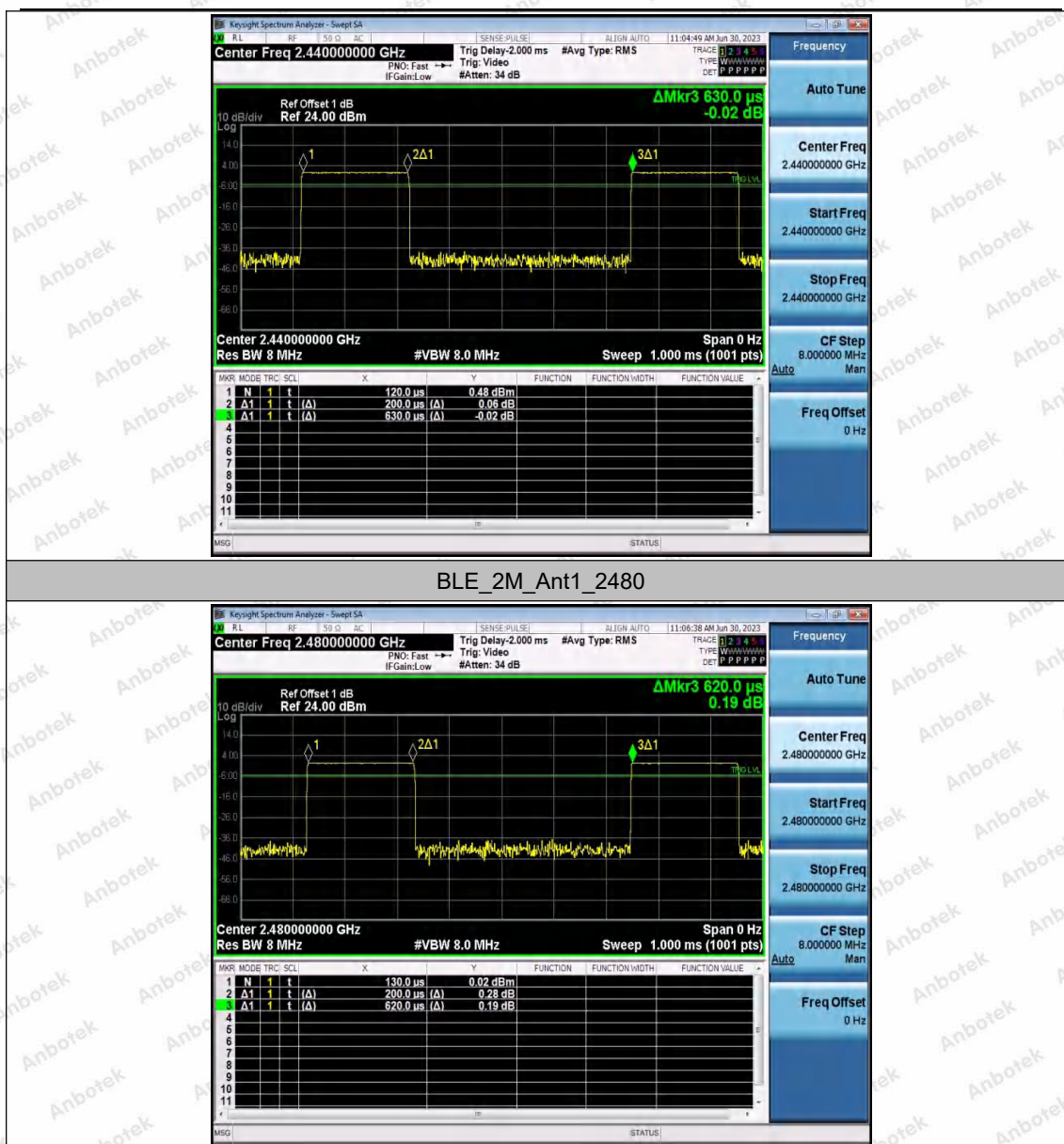
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