

Appendix Test Data

Report No.:	18220WC40017501	Test Sample No.:	1-2-2
Start Test Date:	2024.2.23	Finish Test Date:	2024.2.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.2℃	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.644	2401.680	2402.324	0.5	PASS
		2440	0.676	2439.668	2440.344	0.5	PASS
		2480	0.692	2479.668	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.164	2401.412	2402.576	0.5	PASS
		2440	0.984	2439.572	2440.556	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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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	1.0416	2401.5187	2402.5603
		2440	1.0588	2439.5026	2440.5614
		2480	1.0458	2479.5104	2480.5562
BLE_2M	Ant1	2402	2.0713	2401.0067	2403.0780
		2440	2.0554	2439.0113	2441.0667
		2480	2.0597	2479.0126	2481.0723



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





BLE_2M_Ant1_2480



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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	4.55	≤30	PASS
		2440	4.35	≤30	PASS
		2480	4.43	≤30	PASS
BLE_2M	Ant1	2402	4.54	≤30	PASS
		2440	4.35	≤30	PASS
		2480	4.46	≤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

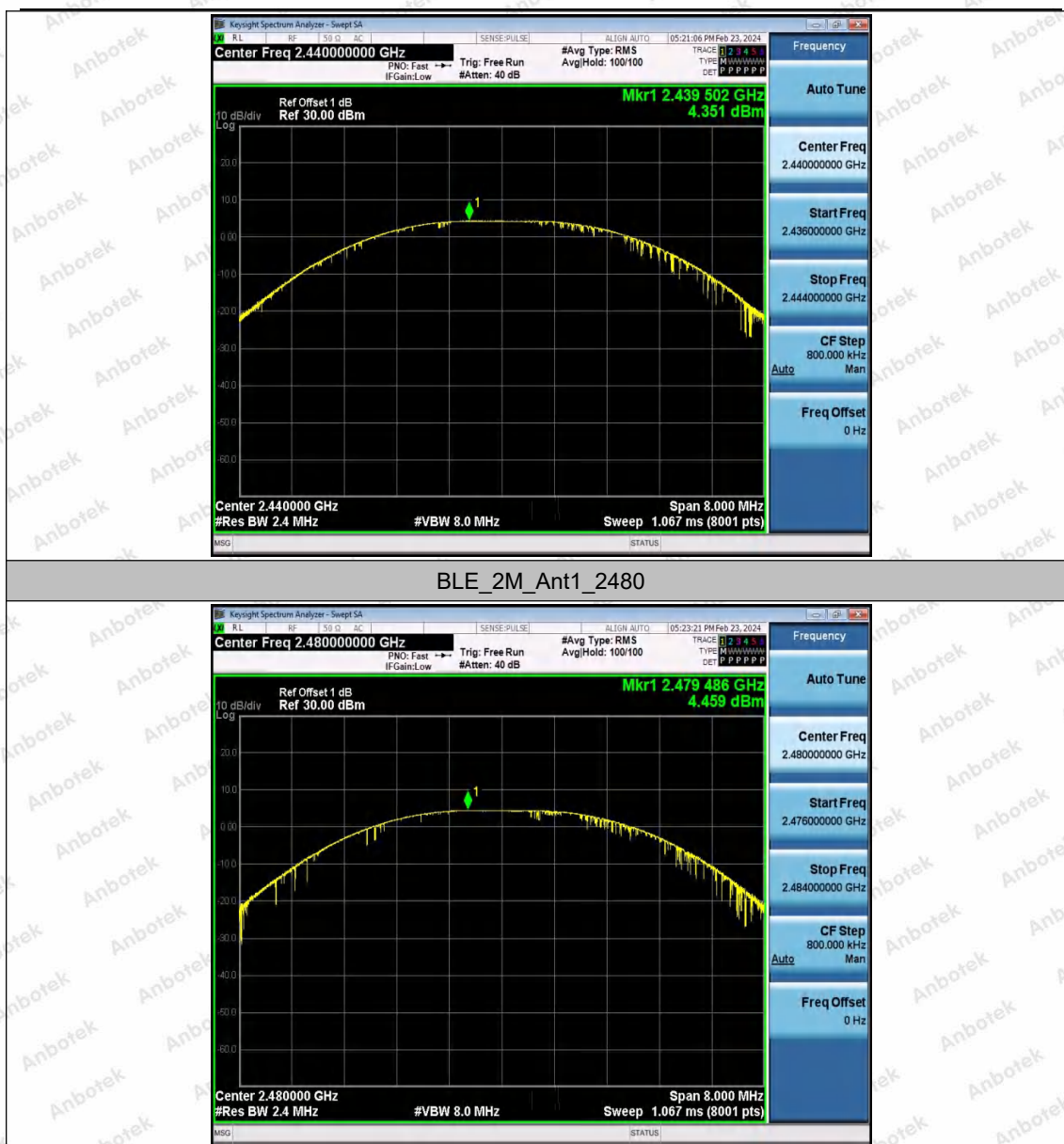
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.31	≤8.00	PASS
		2440	-13.41	≤8.00	PASS
		2480	-13.16	≤8.00	PASS
BLE_2M	Ant1	2402	-14.91	≤8.00	PASS
		2440	-15.09	≤8.00	PASS
		2480	-14.92	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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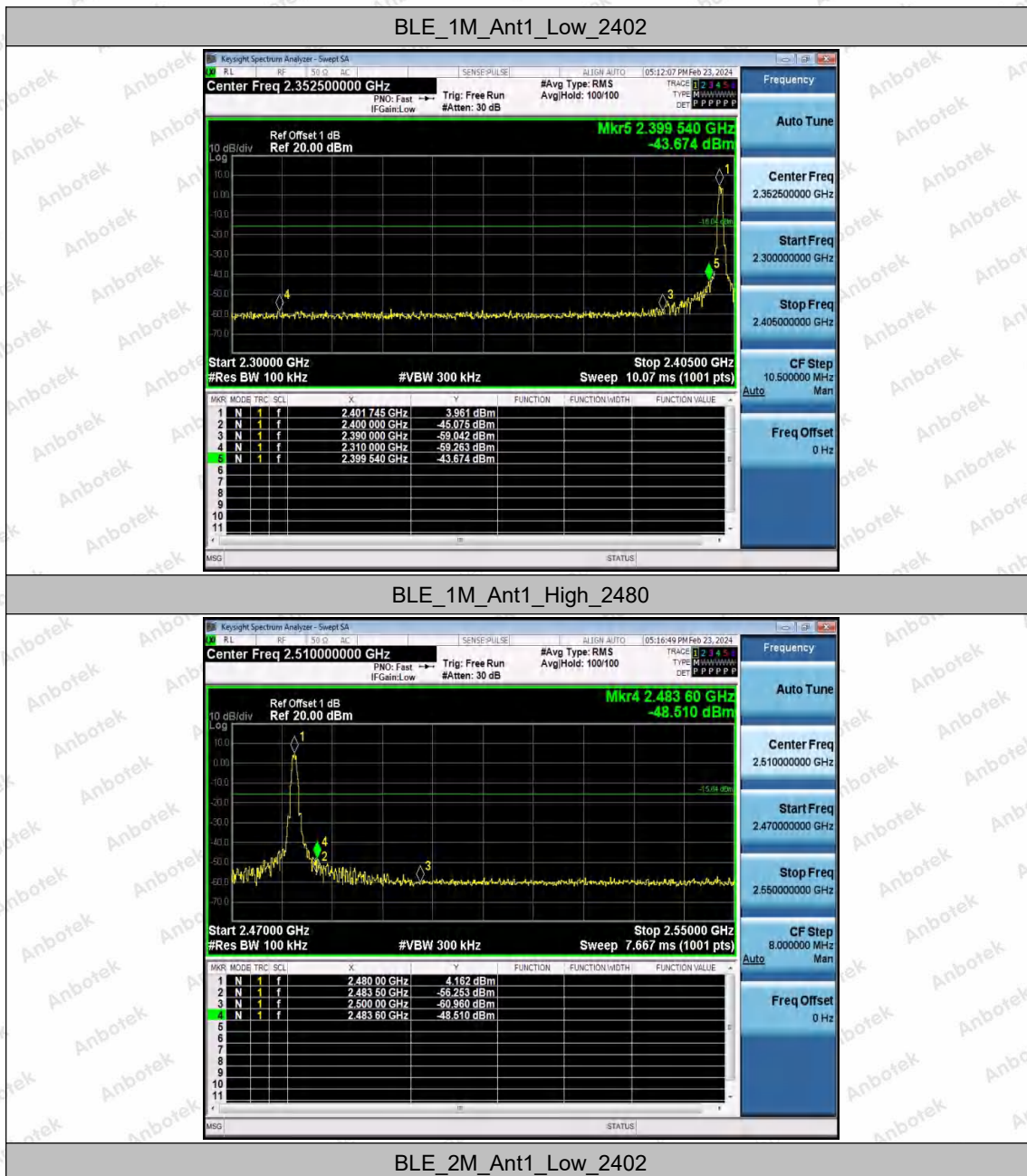
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.96	-43.67	≤-16.04	PASS
		High	2480	4.16	-48.51	≤-15.84	PASS
BLE_2M	Ant1	Low	2402	4.60	-27.57	≤-15.4	PASS
		High	2480	4.51	-48.48	≤-15.49	PASS



Test Graphs



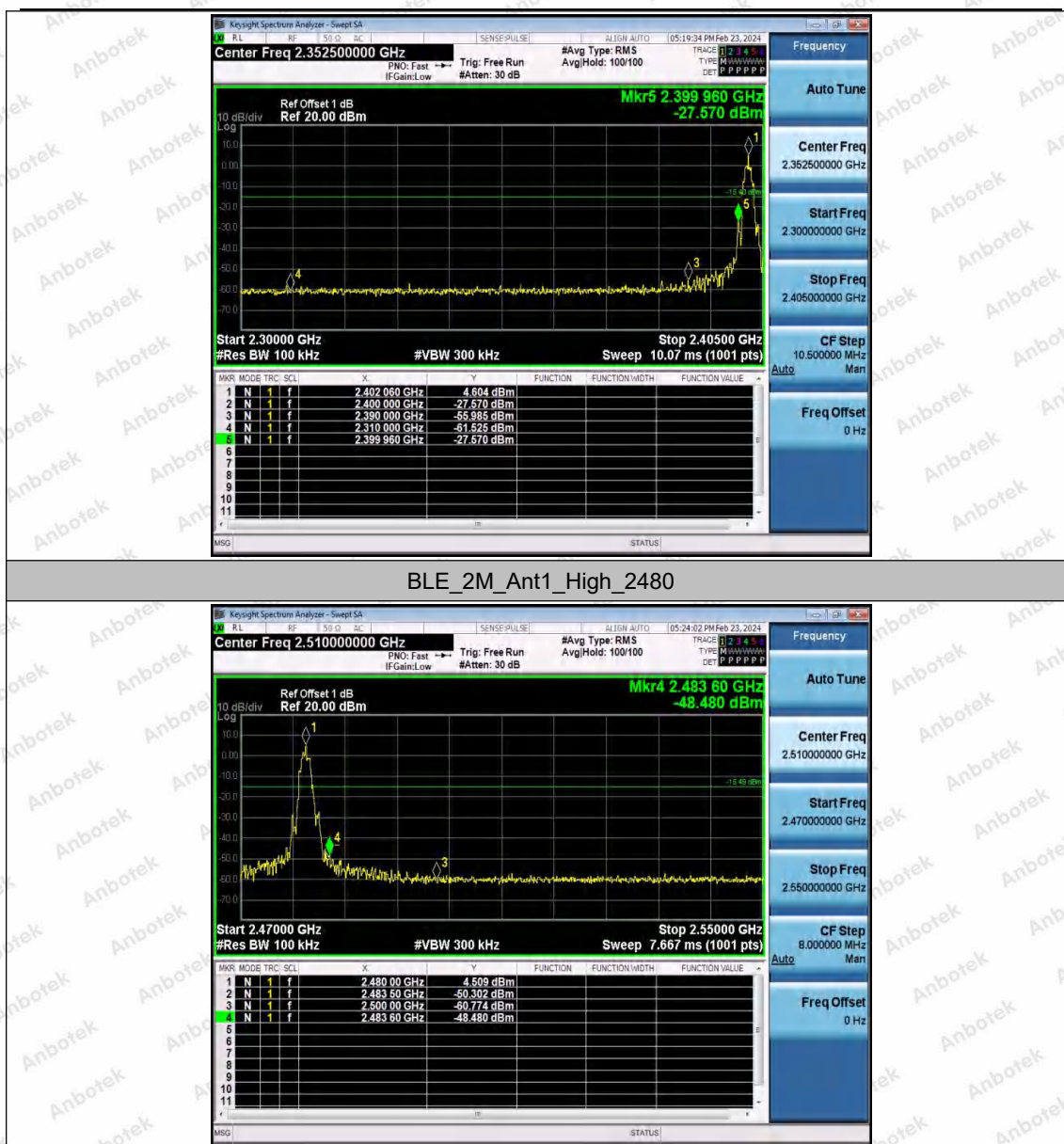
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-69.37	≤-15.55	PASS
			1000~26500	4.45	-50.05	≤-15.55	PASS
		2440	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-57.86	≤-15.74	PASS
			1000~26500	4.26	-52.85	≤-15.74	PASS
		2480	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-68.79	≤-15.61	PASS
			1000~26500	4.39	-50.3	≤-15.61	PASS
BLE_2M	Ant1	2402	Reference	4.44	4.44	---	PASS
			30~1000	4.44	-67.77	≤-15.56	PASS
			1000~26500	4.44	-49.14	≤-15.56	PASS
		2440	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-68.98	≤-15.74	PASS
			1000~26500	4.26	-51.21	≤-15.74	PASS
		2480	Reference	2.66	2.66	---	PASS
			30~1000	2.66	-68.19	≤-17.34	PASS
			1000~26500	2.66	-53.11	≤-17.34	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

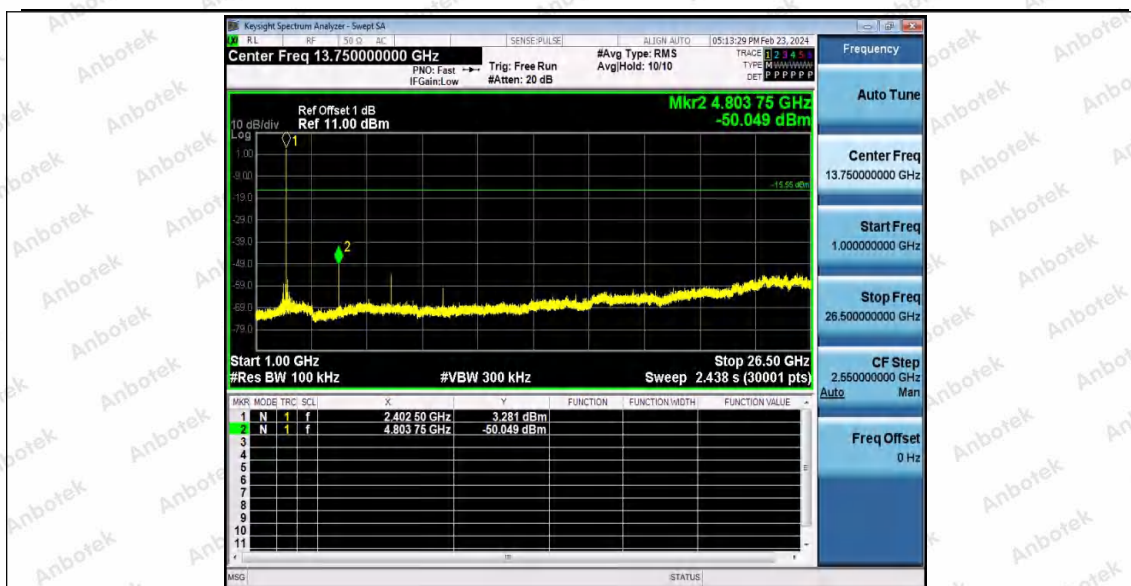
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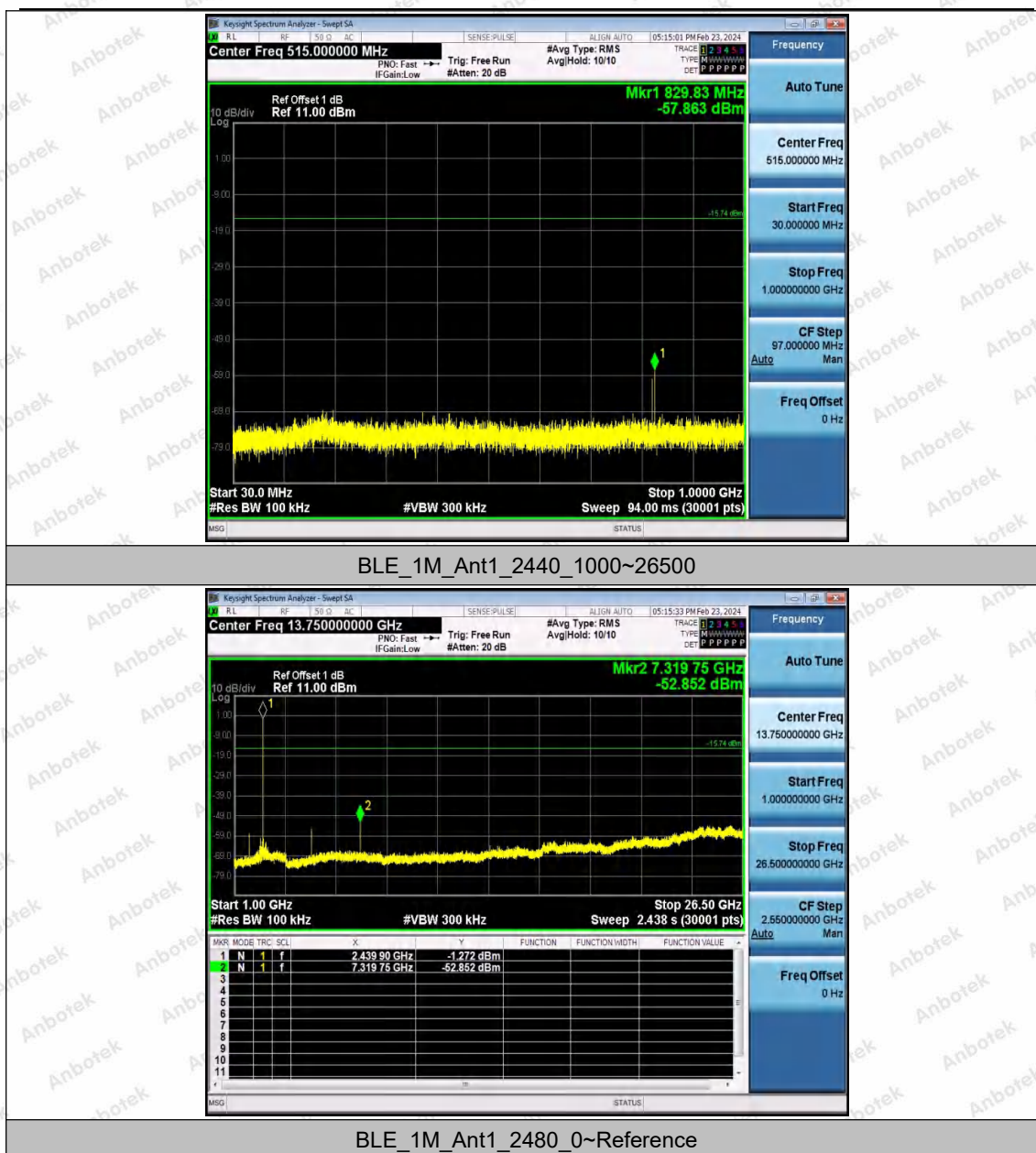


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





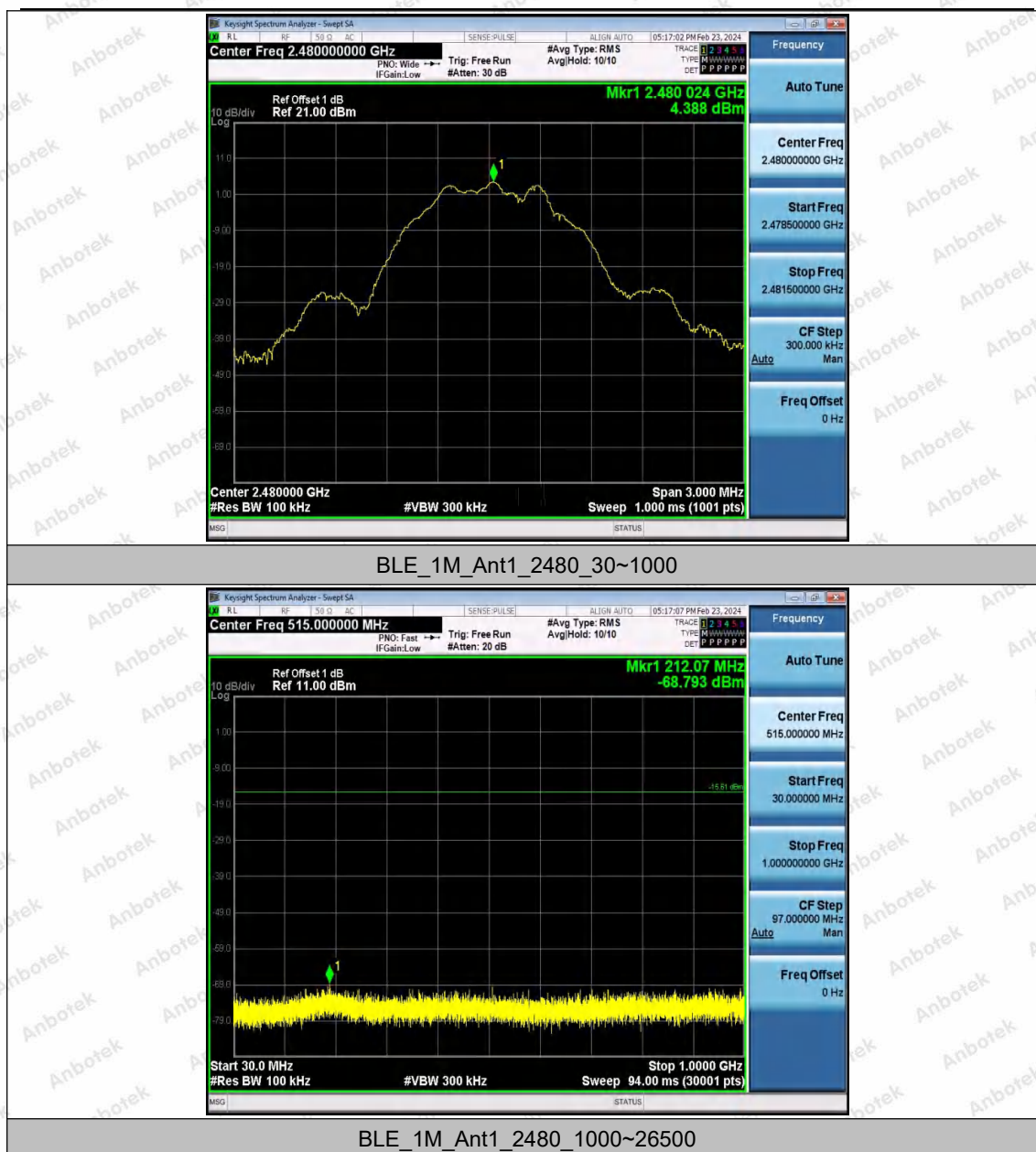
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

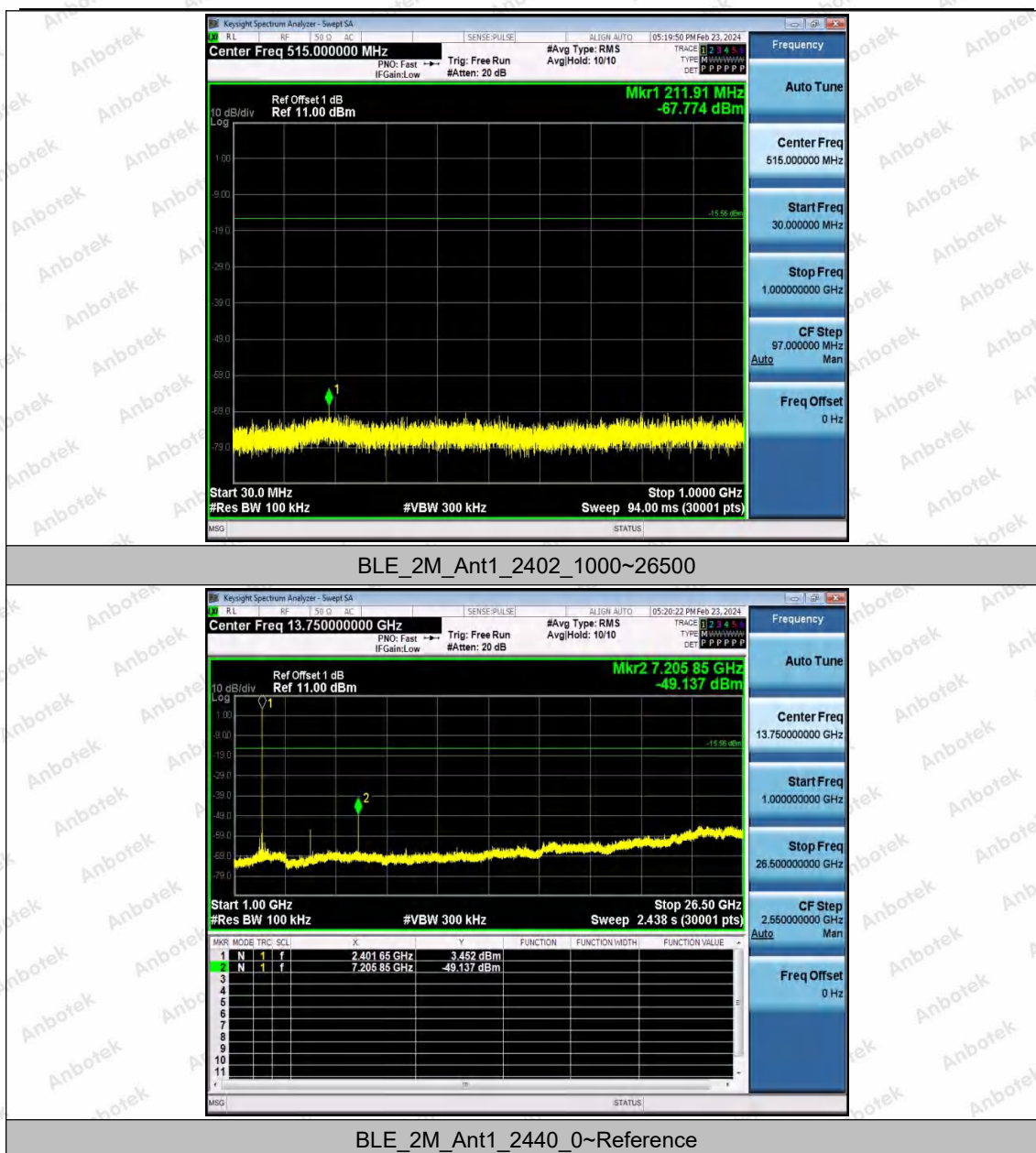
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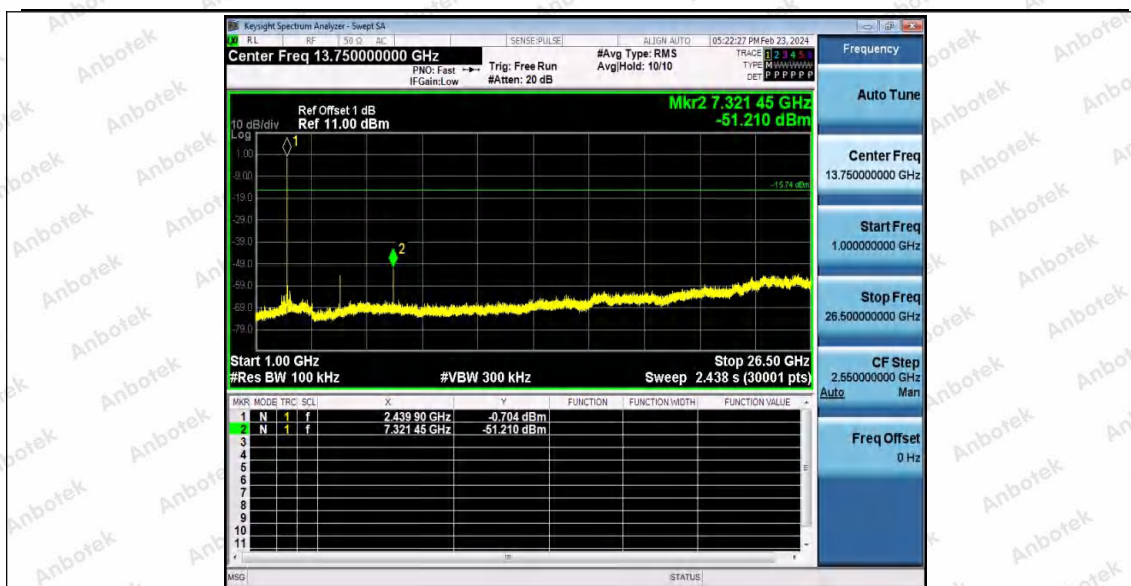
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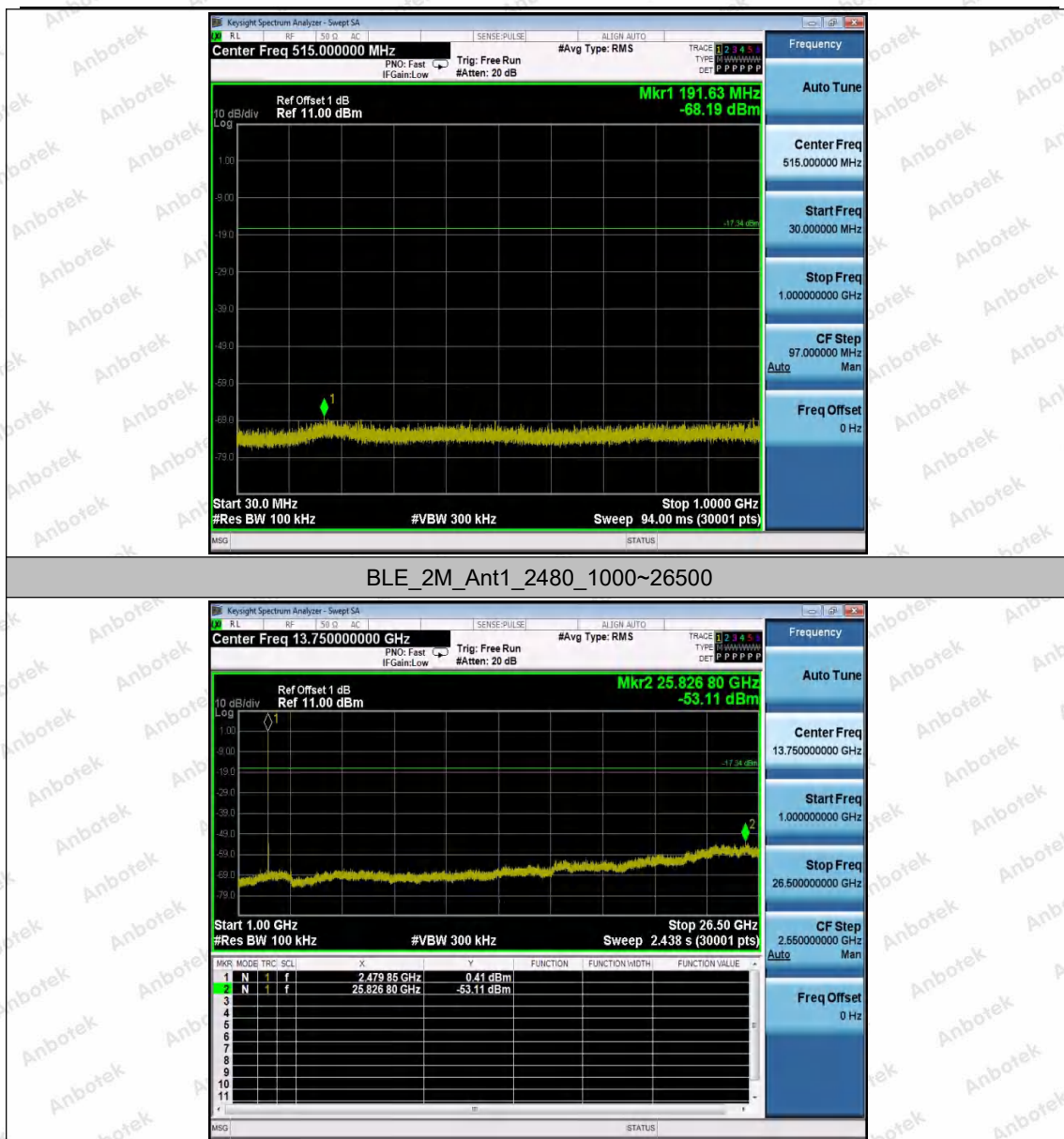


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

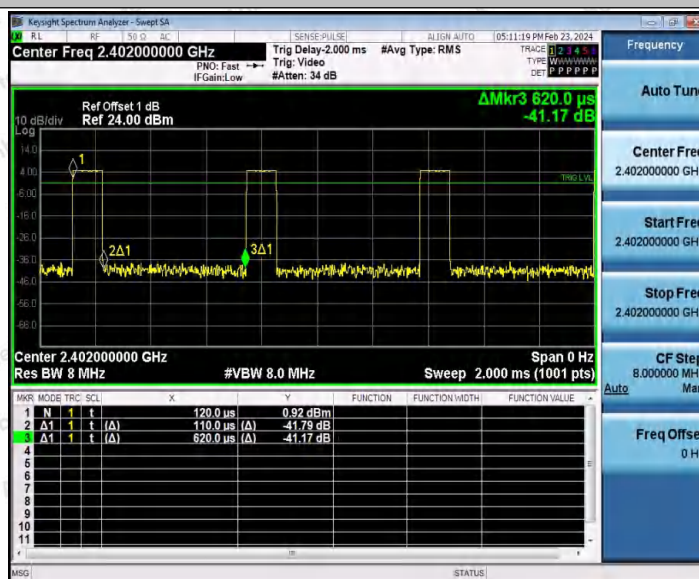
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.11	0.62	17.74	7.51
		2440	0.11	0.62	17.74	7.51
		2480	0.10	0.62	16.13	7.92
BLE_2M	Ant1	2402	0.06	0.62	9.68	10.14
		2440	0.06	0.62	9.68	10.14
		2480	0.06	0.62	9.68	10.14

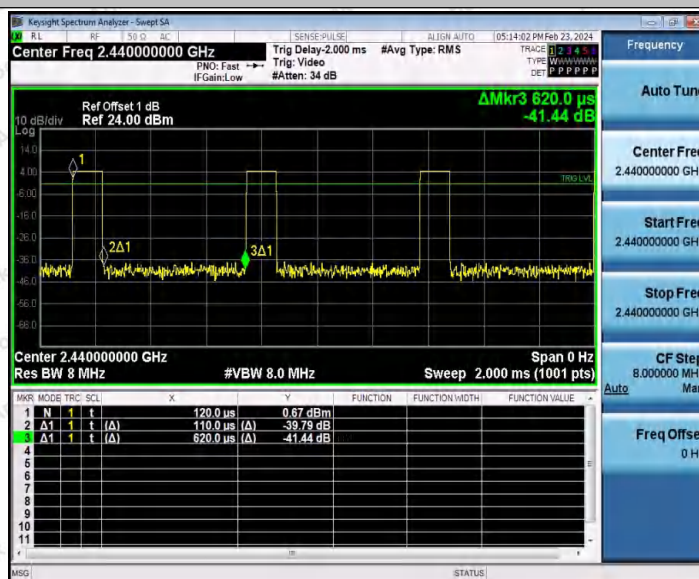


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

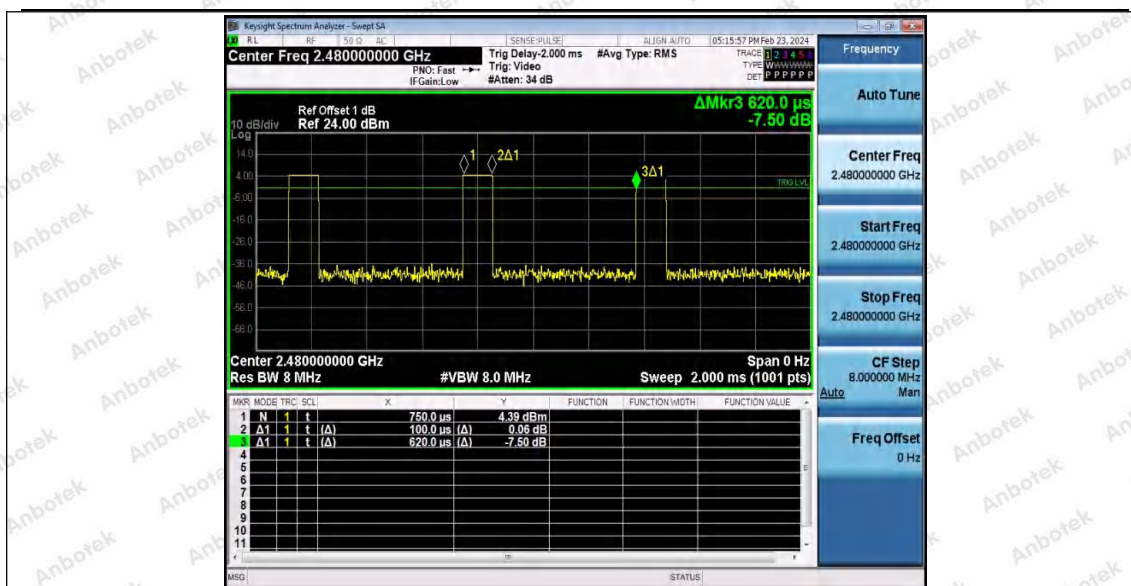
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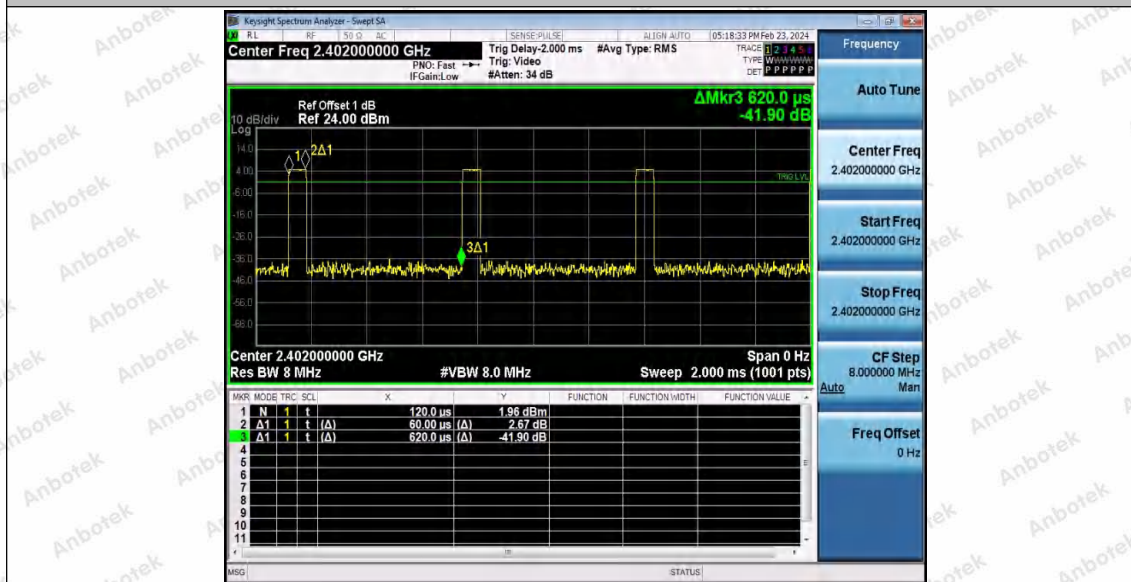


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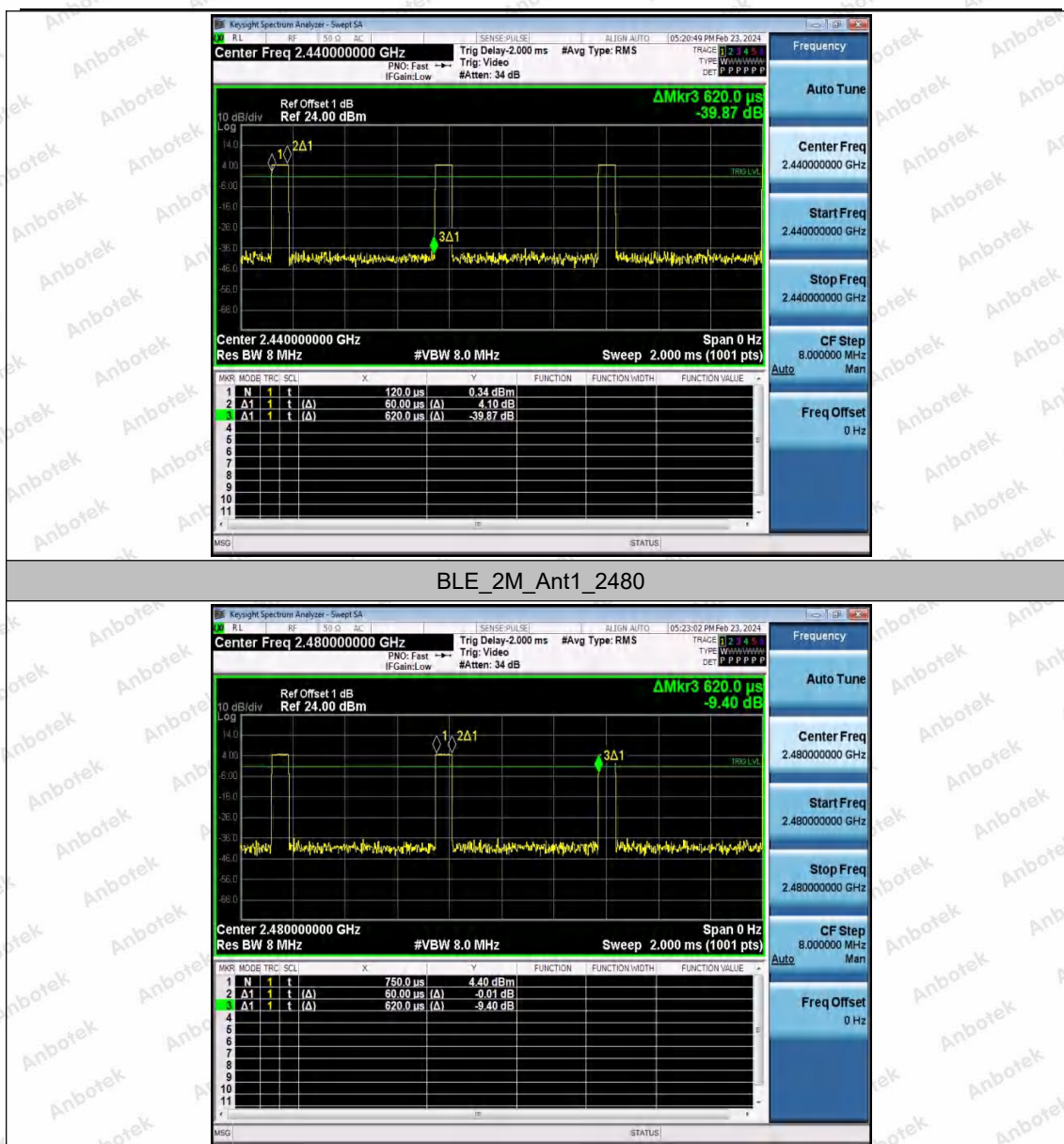


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---end---

