

Appendix Test Data

Report No.:	18220WC40022901	Test Sample No.:	1-2-2
Start Test Date:	2023.2.24	Finish Test Date:	2023.2.24
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3°C	Relative Humidity:	48%
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	0.508	2401.700	2402.208	0.5	PASS
		2440	0.520	2439.696	2440.216	0.5	PASS
		2480	0.528	2479.688	2480.216	0.5	PASS
BLE_2M	Ant1	2402	0.864	2401.440	2402.304	0.5	PASS
		2440	0.836	2439.440	2440.276	0.5	PASS
		2480	0.832	2479.428	2480.260	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	1.0769	2401.4896	2402.5665
		2440	1.0934	2439.4735	2440.5669
		2480	1.1222	2479.4441	2480.5663
BLE_2M	Ant1	2402	2.0551	2401.0184	2403.0735
		2440	2.0622	2439.0121	2441.0743
		2480	2.0778	2479.0028	2481.0806



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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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	3.17	≤30	PASS
		2440	3.52	≤30	PASS
		2480	3.62	≤30	PASS
BLE_2M	Ant1	2402	3.15	≤30	PASS
		2440	3.53	≤30	PASS
		2480	3.63	≤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

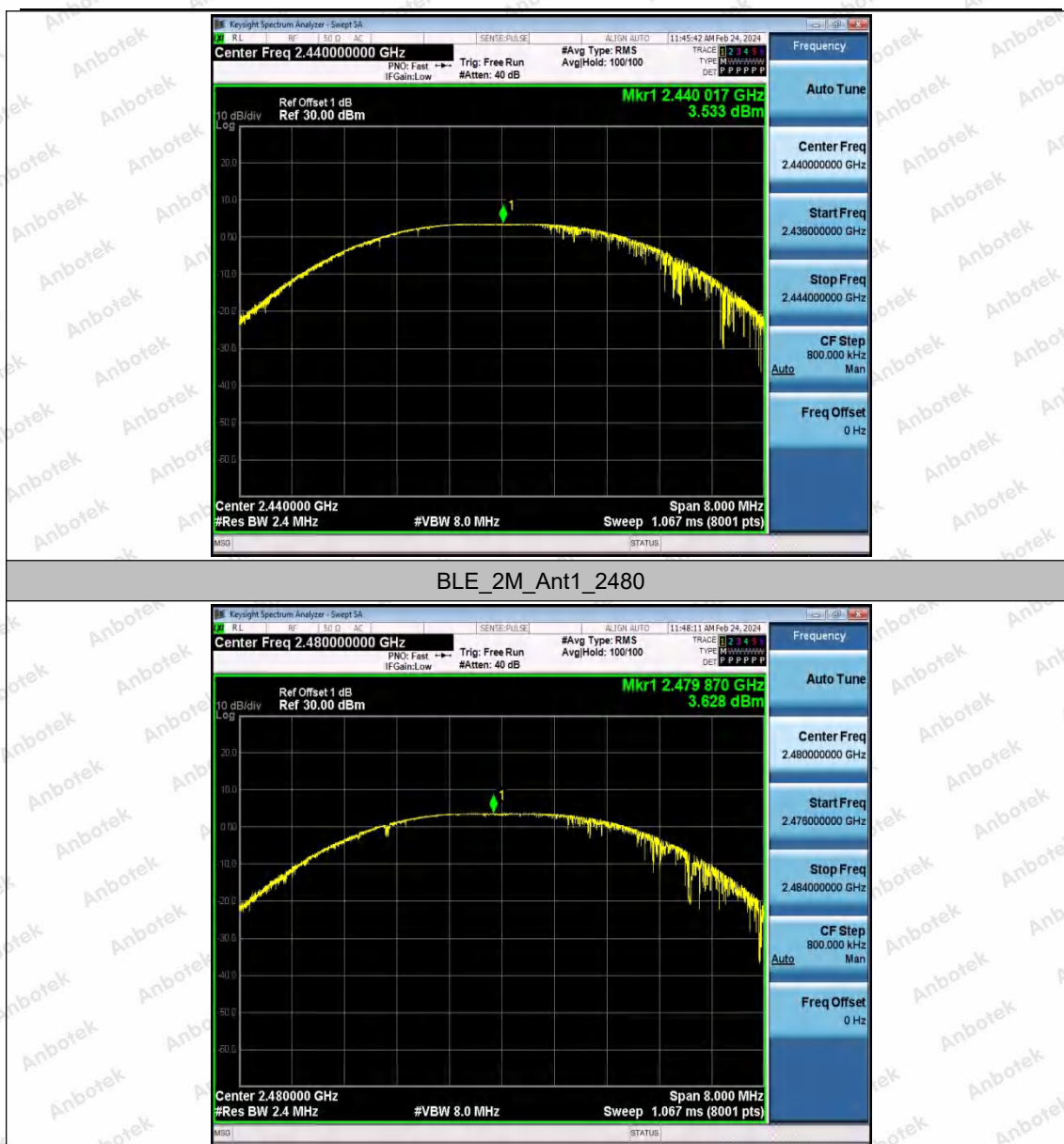
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.81	≤8.00	PASS
		2440	-16.87	≤8.00	PASS
		2480	-16.77	≤8.00	PASS
BLE_2M	Ant1	2402	-19.36	≤8.00	PASS
		2440	-19	≤8.00	PASS
		2480	-18.77	≤8.00	PASS

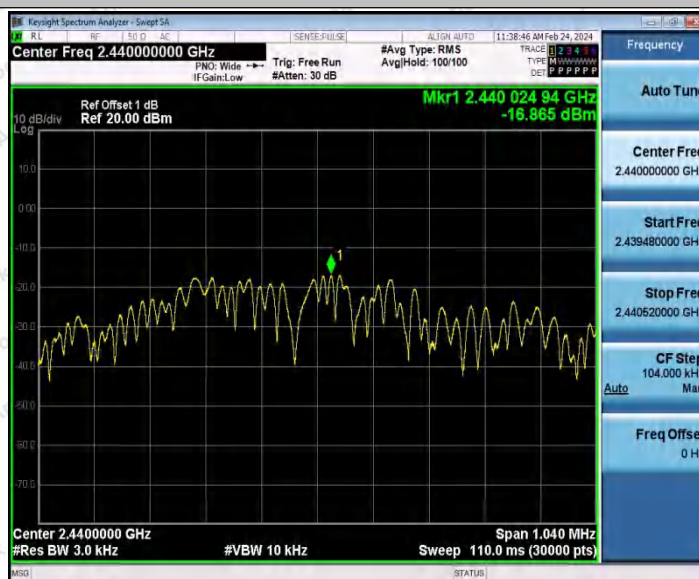


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

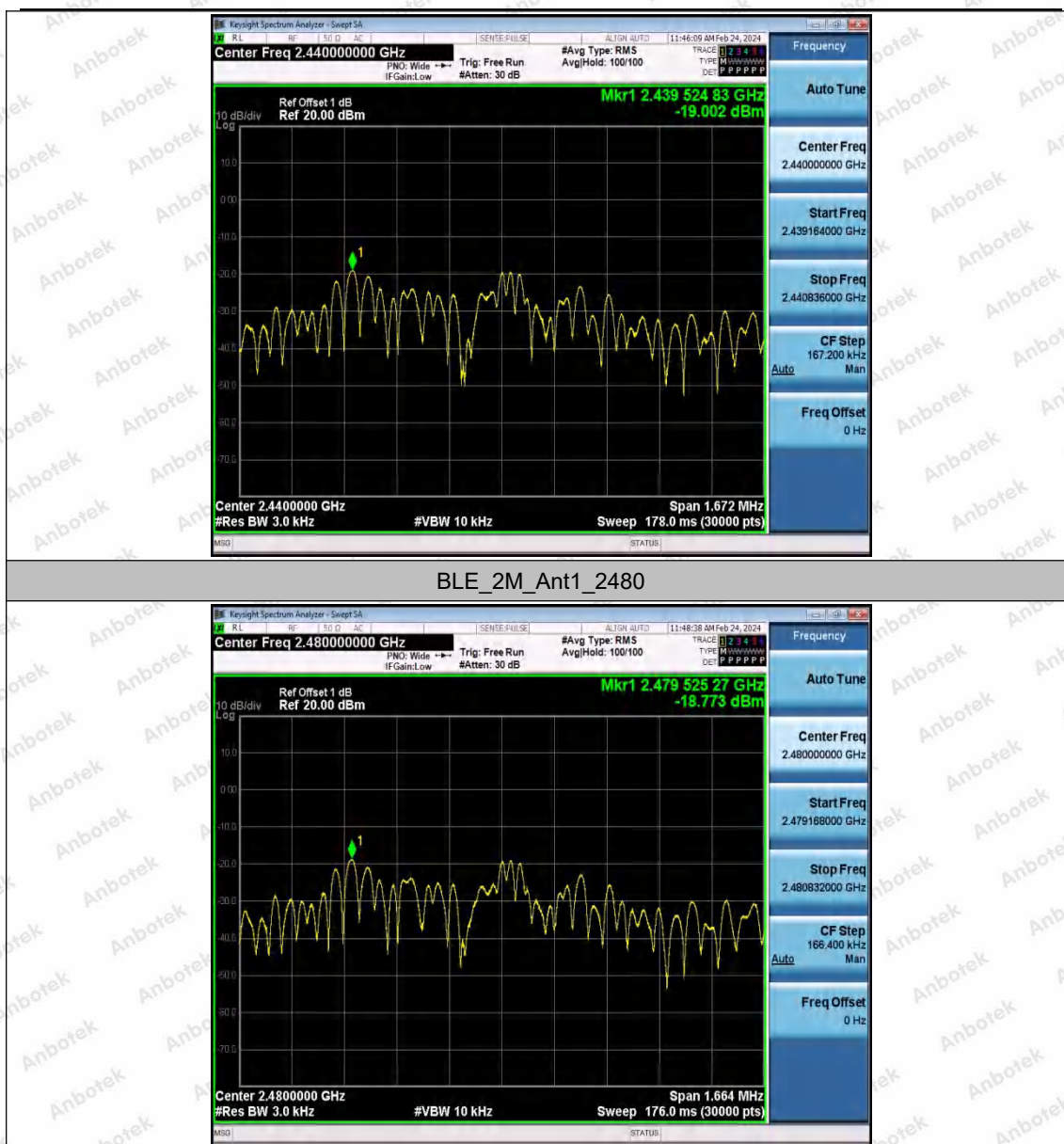
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Appendix E: Band edge measurements

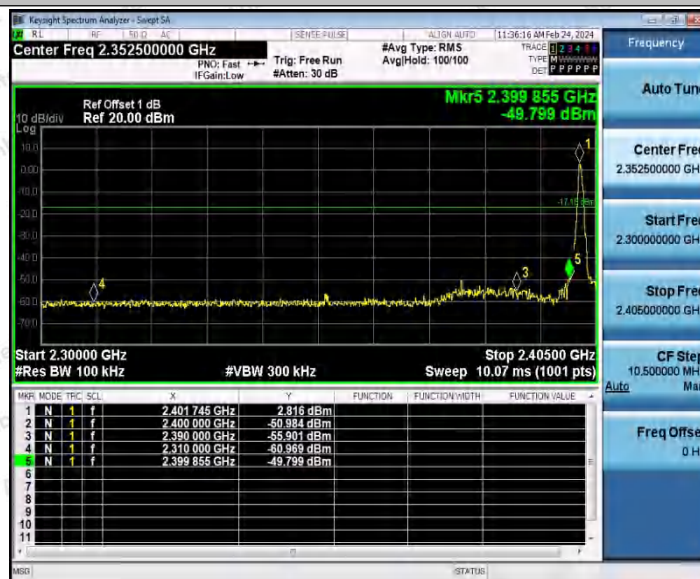
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.82	-49.8	≤-17.18	PASS
		High	2480	3.56	-52.37	≤-16.44	PASS
BLE_2M	Ant1	Low	2402	2.54	-31.06	≤-17.46	PASS
		High	2480	2.36	-46.14	≤-17.65	PASS

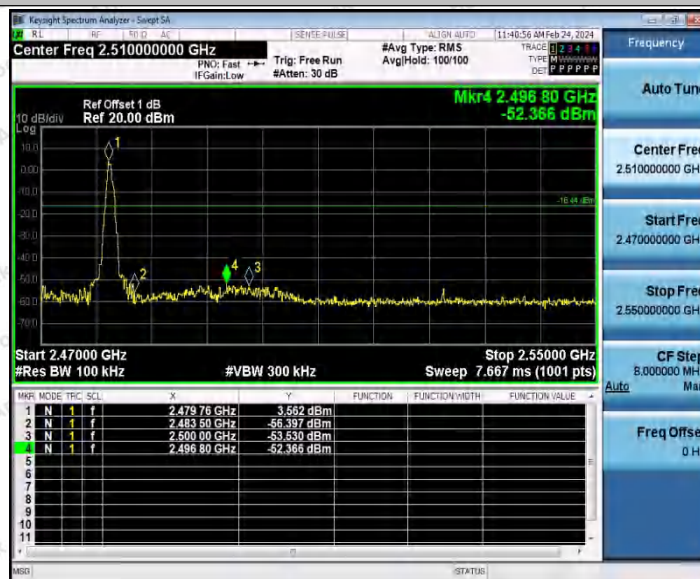


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

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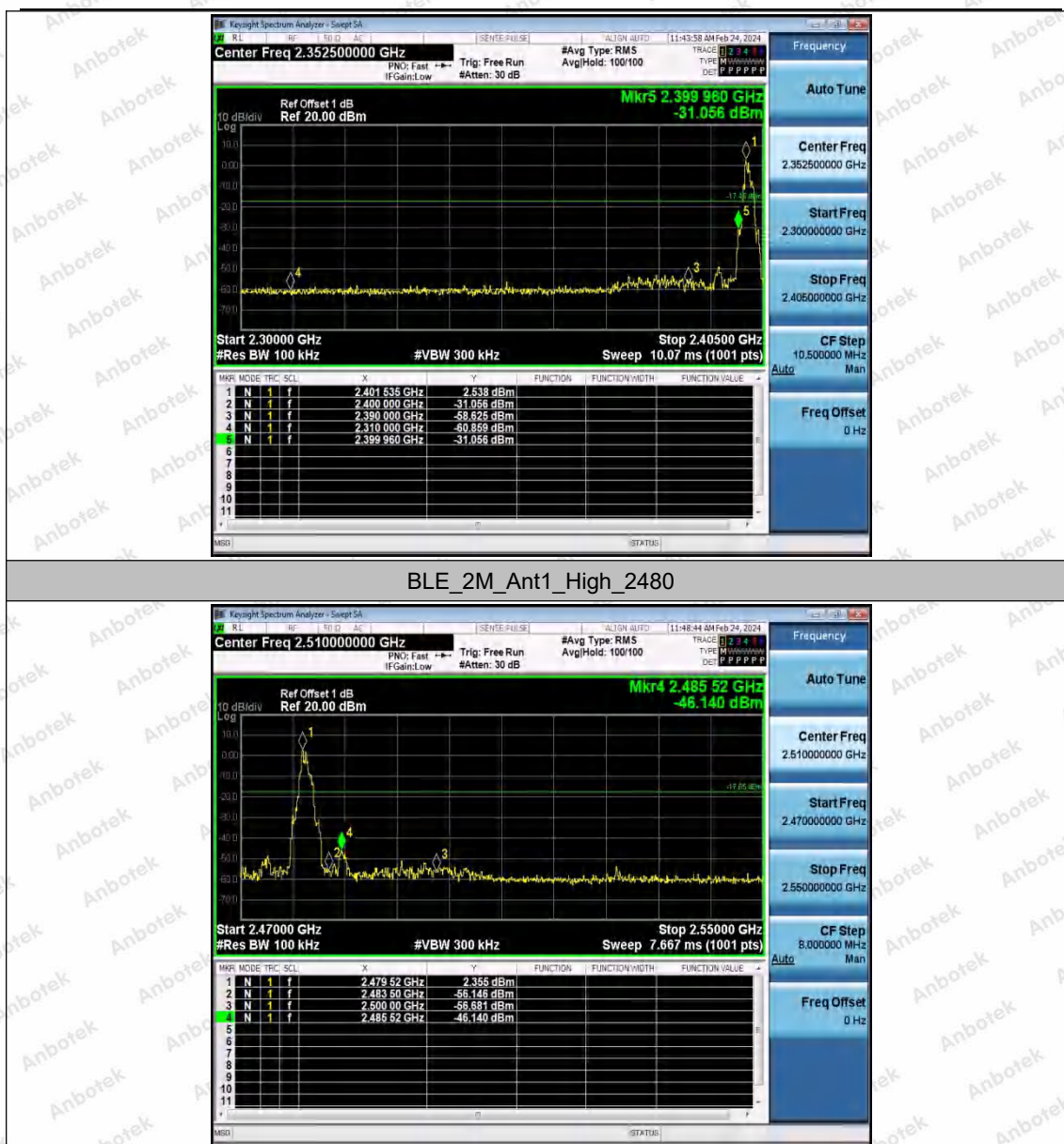


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.98	2.98	---	PASS
			30~1000	2.98	-65.86	≤-17.02	PASS
			1000~26500	2.98	-47.44	≤-17.02	PASS
		2440	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-69.1	≤-16.65	PASS
			1000~26500	3.35	-46.16	≤-16.65	PASS
		2480	Reference	3.46	3.46	---	PASS
			30~1000	3.46	-69.1	≤-16.54	PASS
			1000~26500	3.46	-48.22	≤-16.54	PASS
BLE_2M	Ant1	2402	Reference	2.27	2.27	---	PASS
			30~1000	2.27	-49.04	≤-17.73	PASS
			1000~26500	2.27	-46.93	≤-17.73	PASS
		2440	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-68.79	≤-17.37	PASS
			1000~26500	2.63	-51.45	≤-17.37	PASS
		2480	Reference	2.88	2.88	---	PASS
			30~1000	2.88	-68.85	≤-17.12	PASS
			1000~26500	2.88	-52.92	≤-17.12	PASS



Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

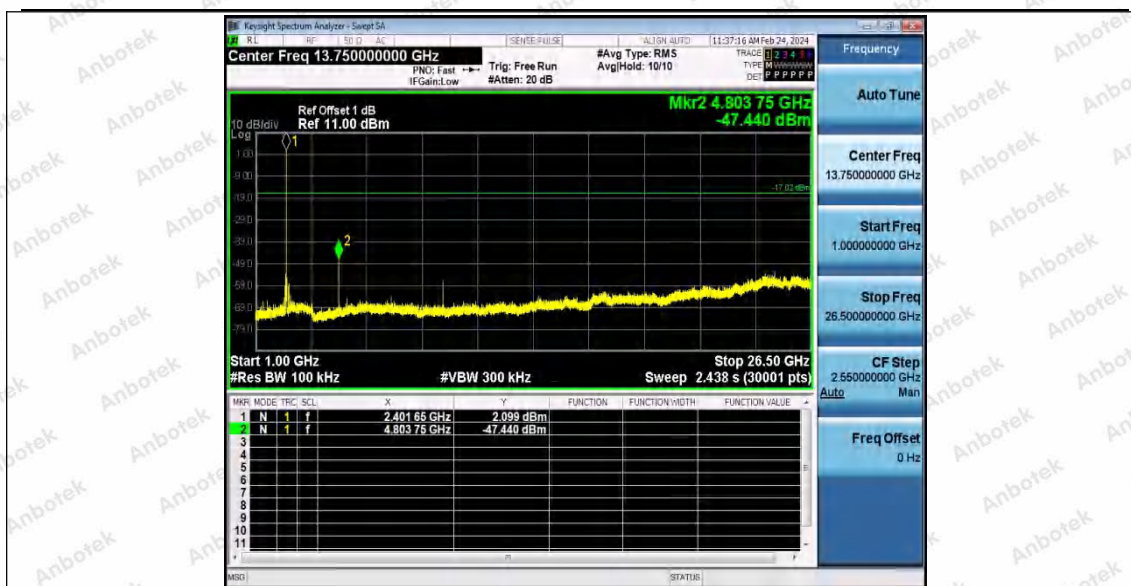
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BLE_1M_Ant1_2440_0~Reference

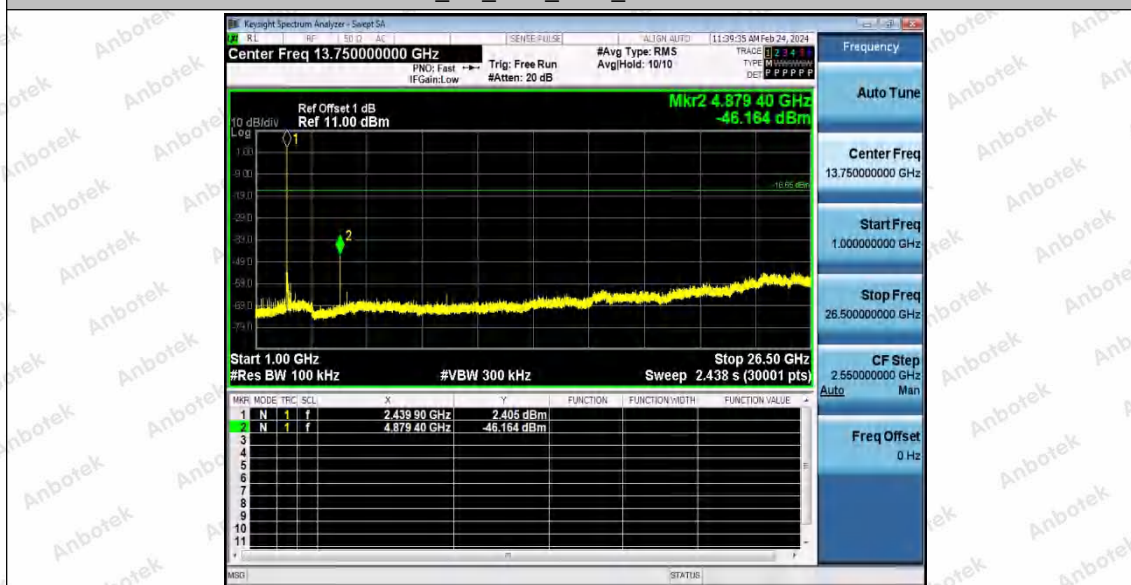


BLE_1M_Ant1_2440_30~1000



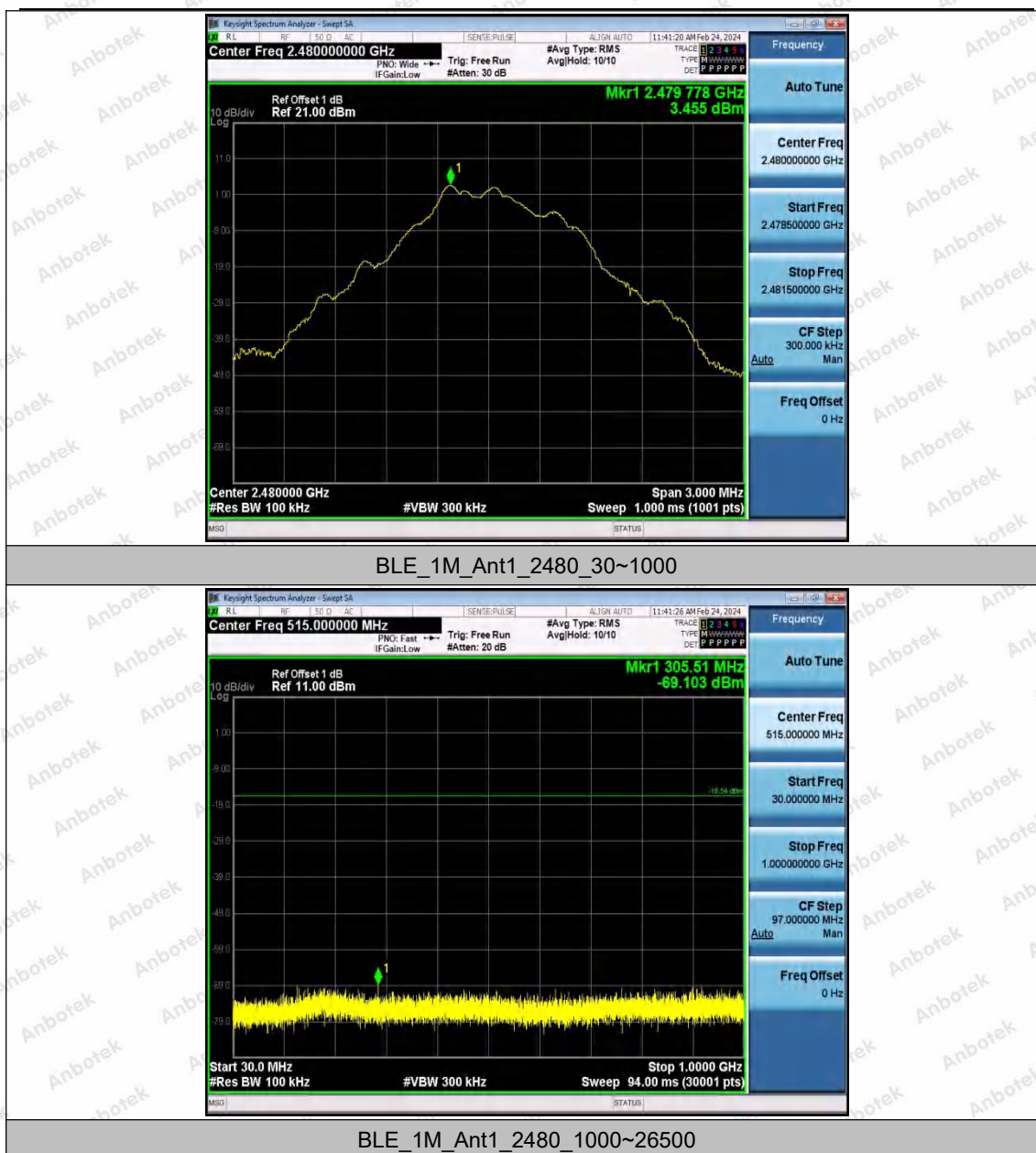


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

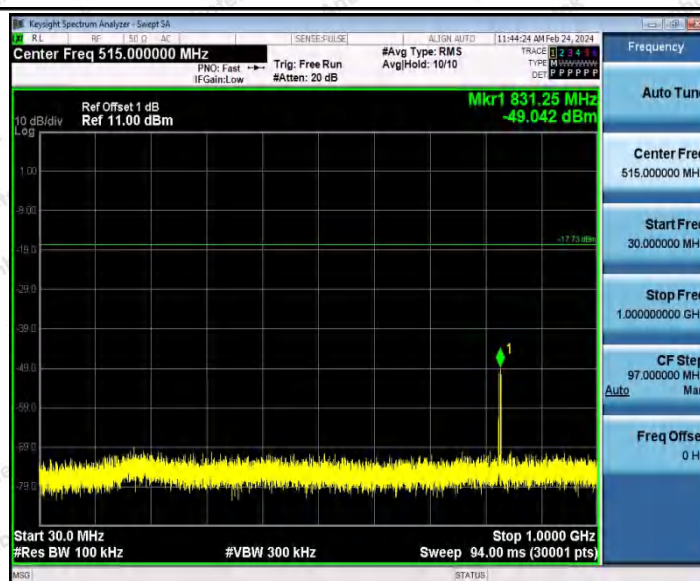
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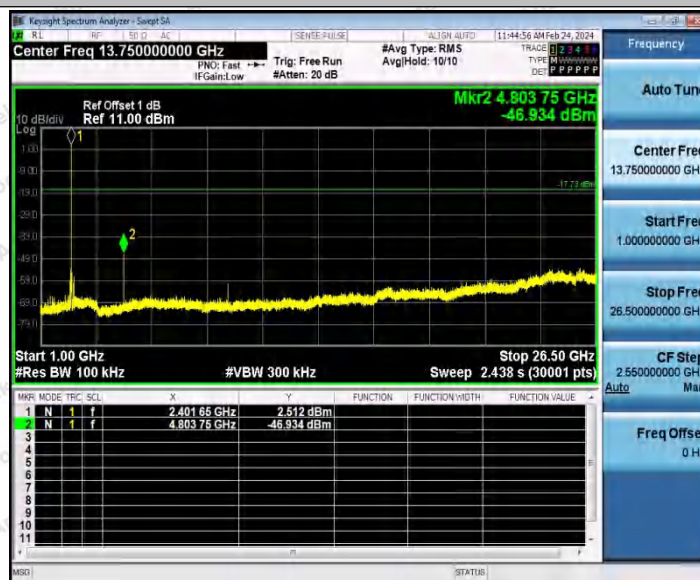


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



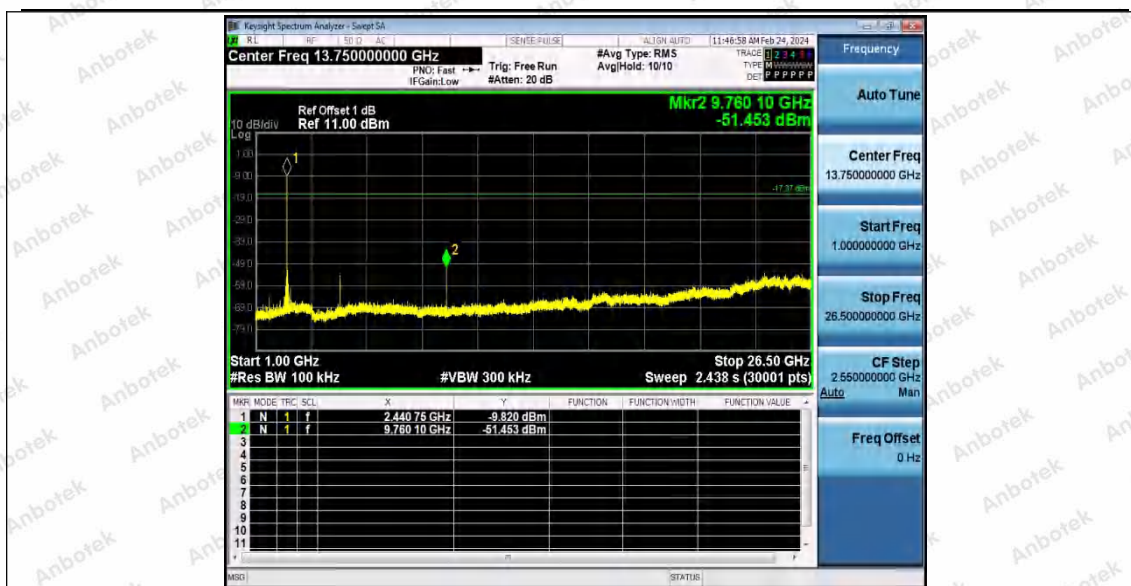
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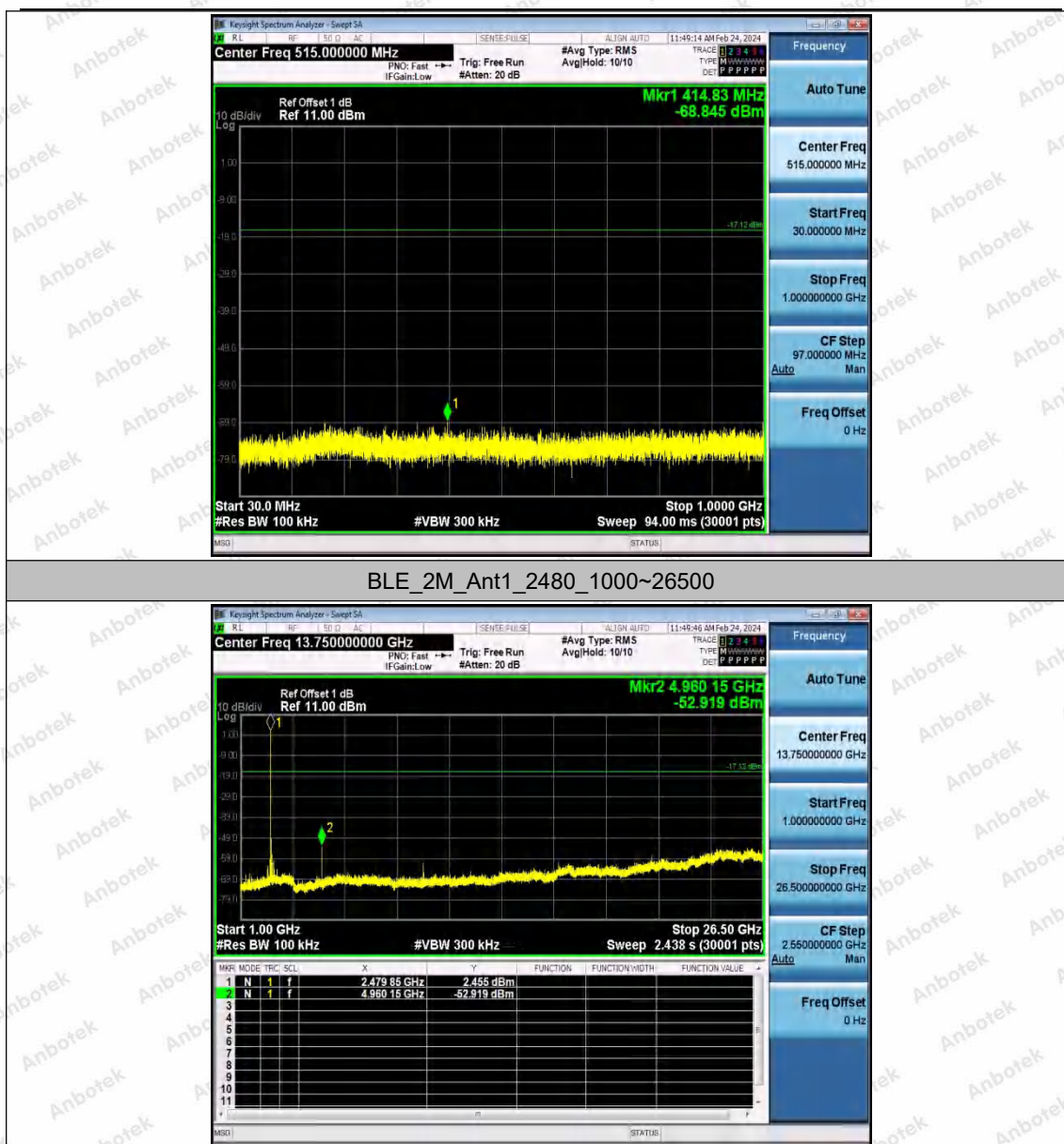


BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000





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Appendix G: Duty Cycle

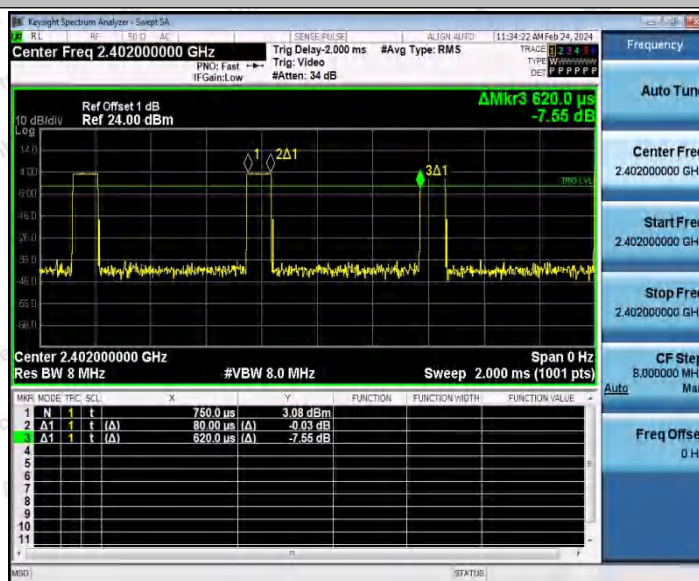
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.08	0.62	12.90	8.89
		2440	0.08	0.62	12.90	8.89
		2480	0.08	0.62	12.90	8.89
BLE_2M	Ant1	2402	0.05	0.62	8.06	10.94
		2440	0.06	0.62	9.68	10.14
		2480	0.06	0.63	9.52	10.21

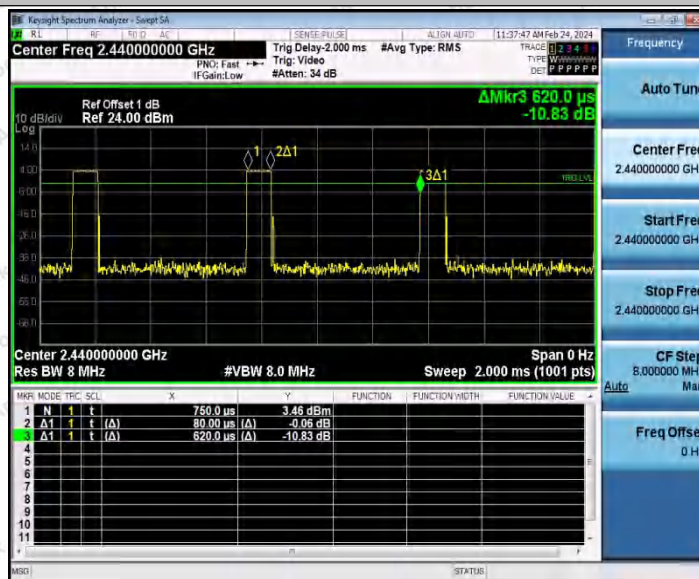


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

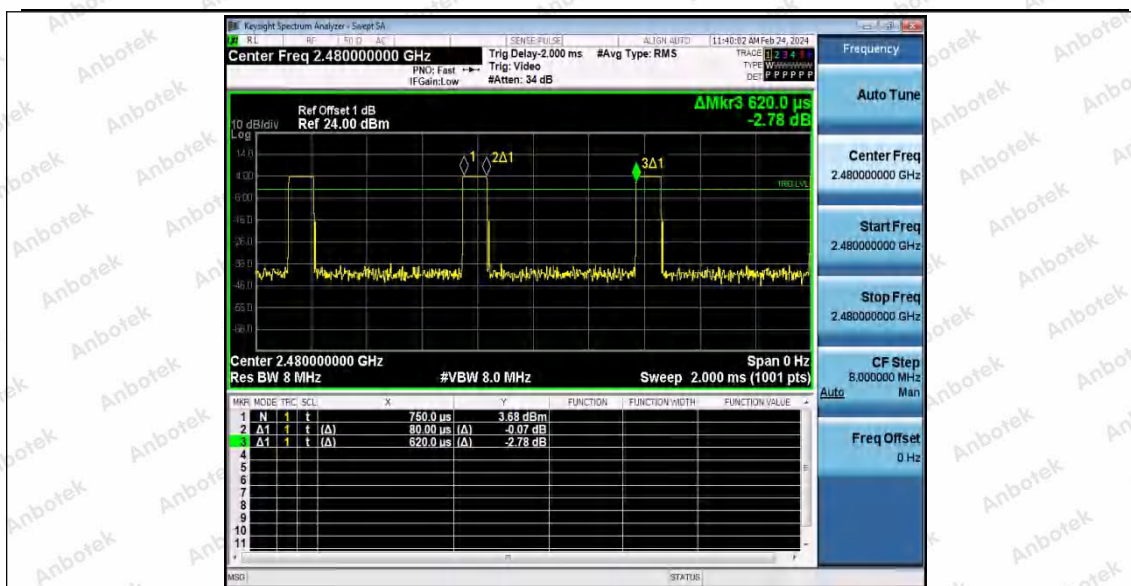
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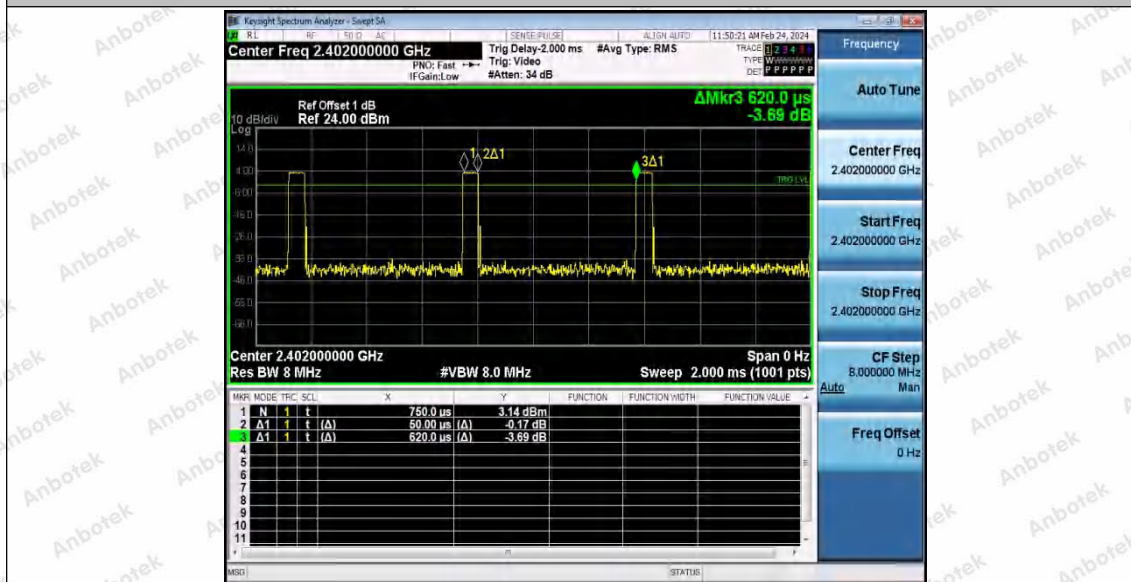


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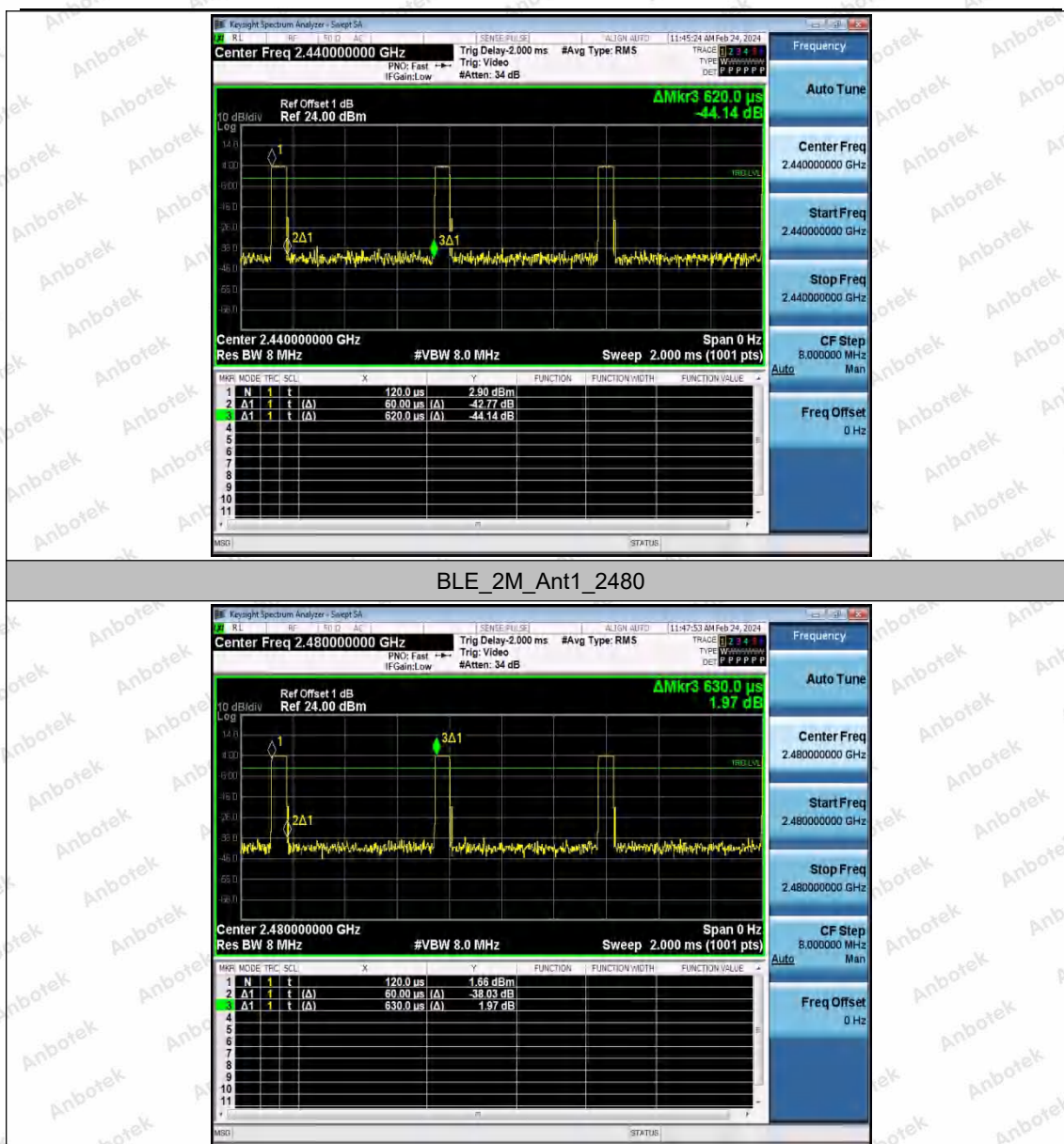


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---END---

