

Appendix Test Data

Report No.:	18220WC40014201	Test Sample No.:	1-2-2
Start Test Date:	2024.2.6	Finish Test Date:	2024.2.6
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.2°C	Relative Humidity:	46%
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	0.640	2401.676	2402.316	0.5	PASS
		2440	0.636	2439.676	2440.312	0.5	PASS
		2480	0.640	2479.664	2480.304	0.5	PASS
BLE_2M	Ant1	2402	0.880	2401.496	2402.376	0.5	PASS
		2440	1.004	2439.488	2440.492	0.5	PASS
		2480	0.960	2479.540	2480.500	0.5	PASS

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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 B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0336	2401.4800	2402.5136
		2440	1.0344	2439.4829	2440.5173
		2480	1.0441	2479.4727	2480.5168
BLE_2M	Ant1	2402	2.0093	2400.9969	2403.0062
		2440	2.0038	2439.0093	2441.0131
		2480	2.0147	2479.0062	2481.0209

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Test Graphs



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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	5.45	≤30	PASS
		2440	5.29	≤30	PASS
		2480	5.16	≤30	PASS
BLE_2M	Ant1	2402	5.47	≤30	PASS
		2440	5.29	≤30	PASS
		2480	5.15	≤30	PASS

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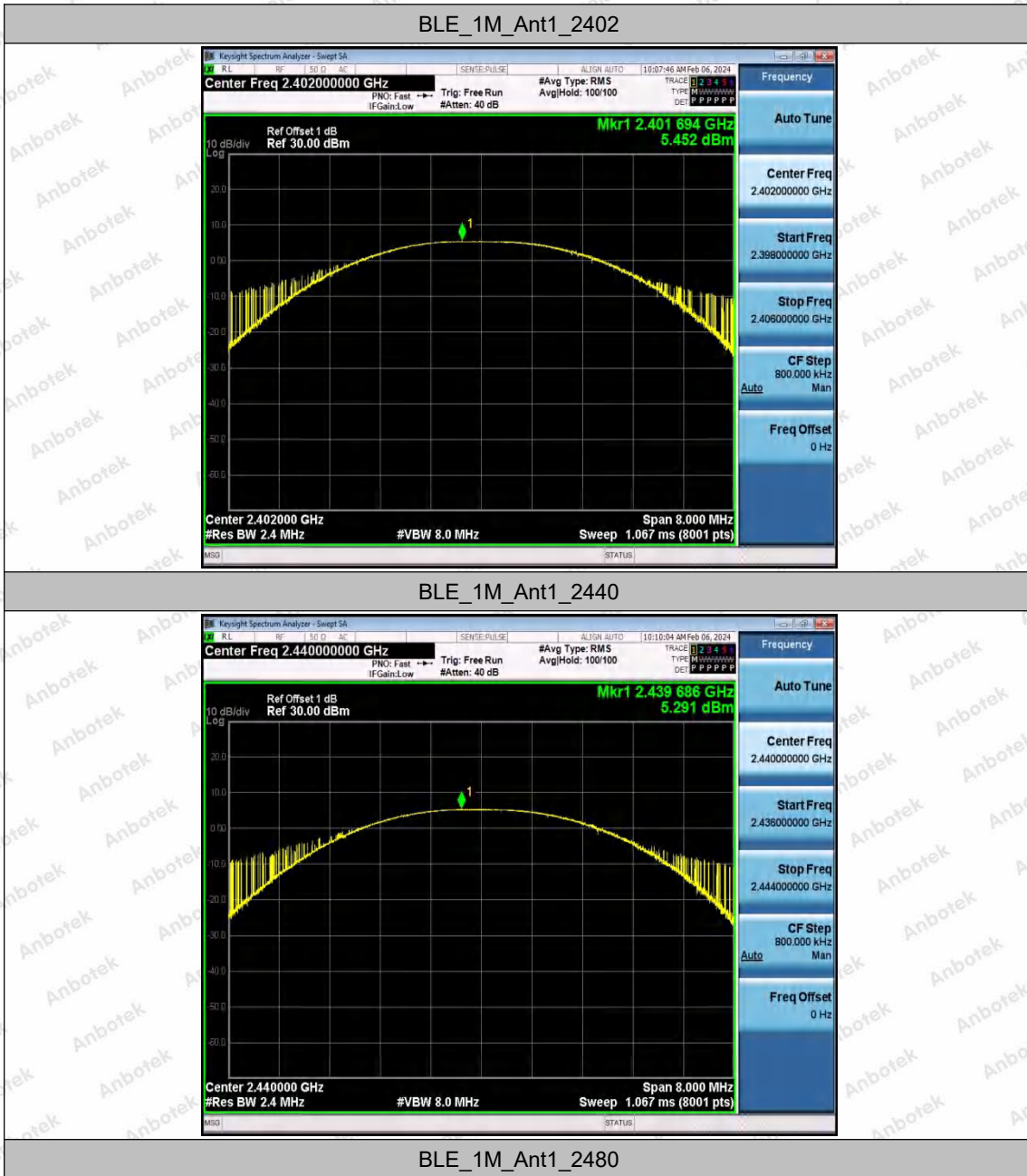
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Test Graphs Peak



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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	-7.09	≤8.00	PASS
		2440	-7.1	≤8.00	PASS
		2480	-7.36	≤8.00	PASS
BLE_2M	Ant1	2402	-7.35	≤8.00	PASS
		2440	-7.27	≤8.00	PASS
		2480	-7.45	≤8.00	PASS



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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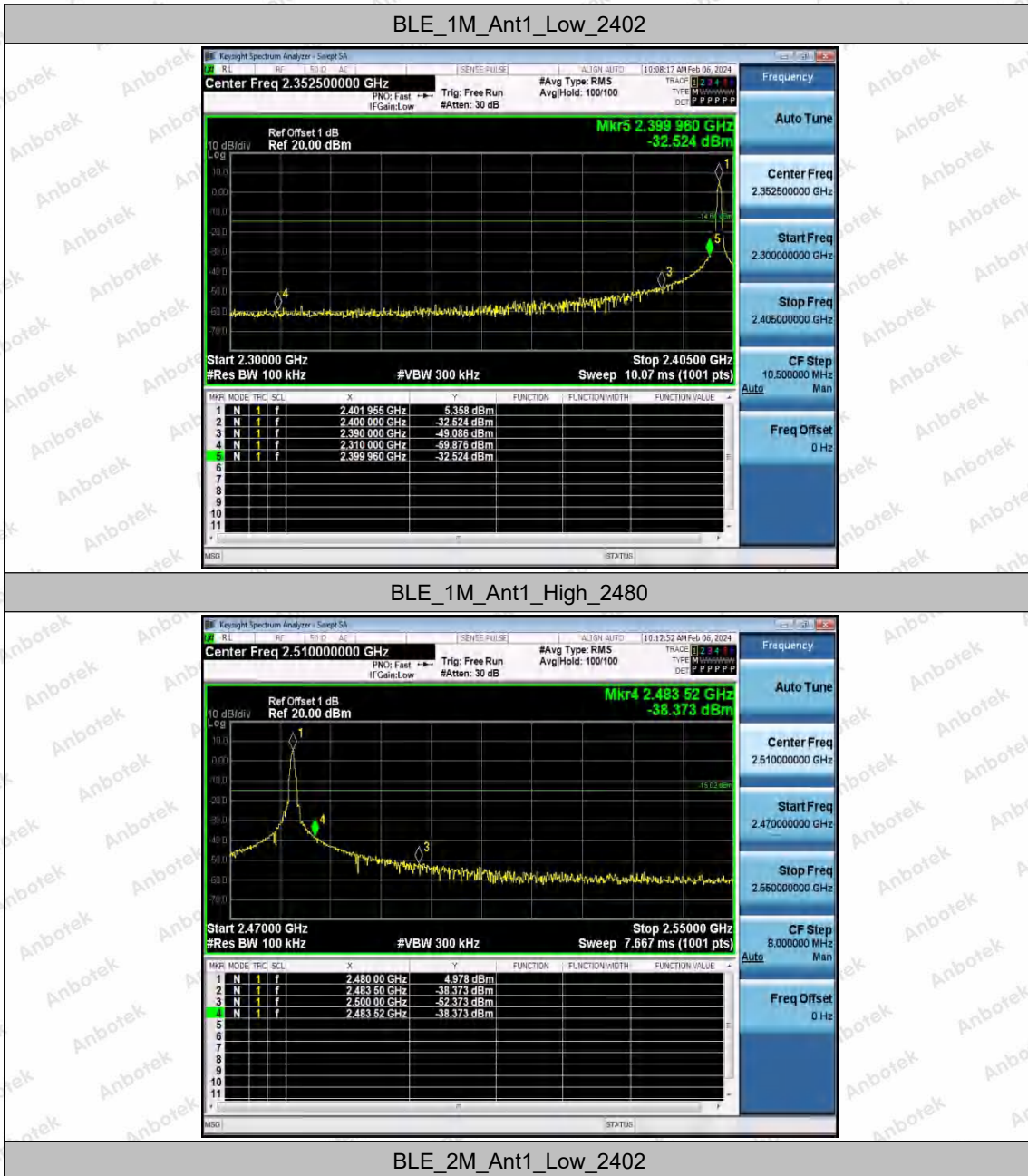
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.36	-32.52	≤-14.64	PASS
		High	2480	4.98	-38.37	≤-15.02	PASS
BLE_2M	Ant1	Low	2402	5.58	-29.32	≤-14.42	PASS
		High	2480	5.13	-39.14	≤-14.87	PASS



Test Graphs

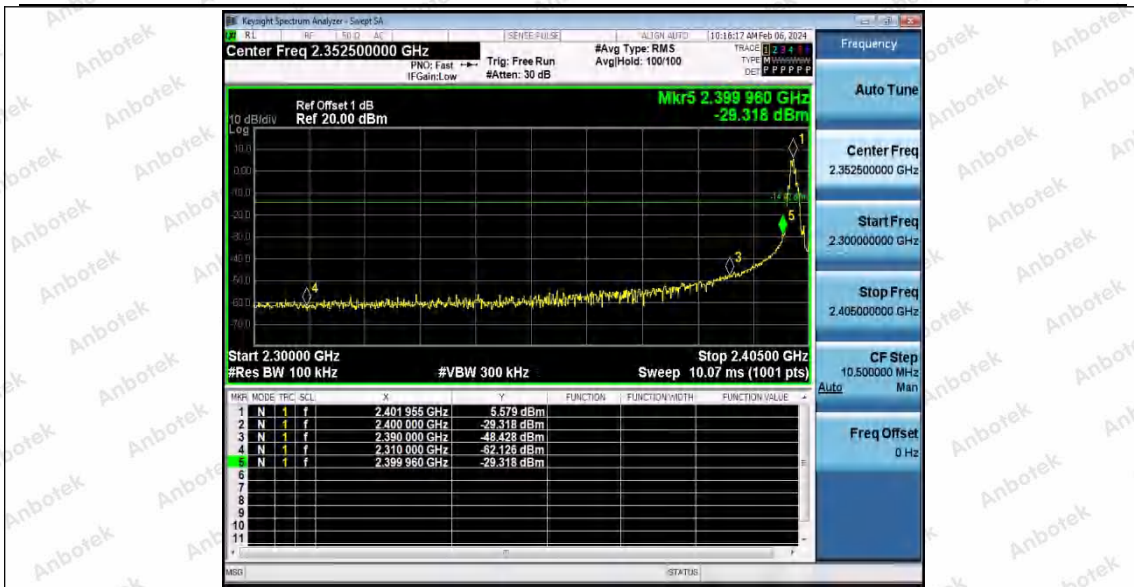


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BLE_2M_Ant1_High_2480



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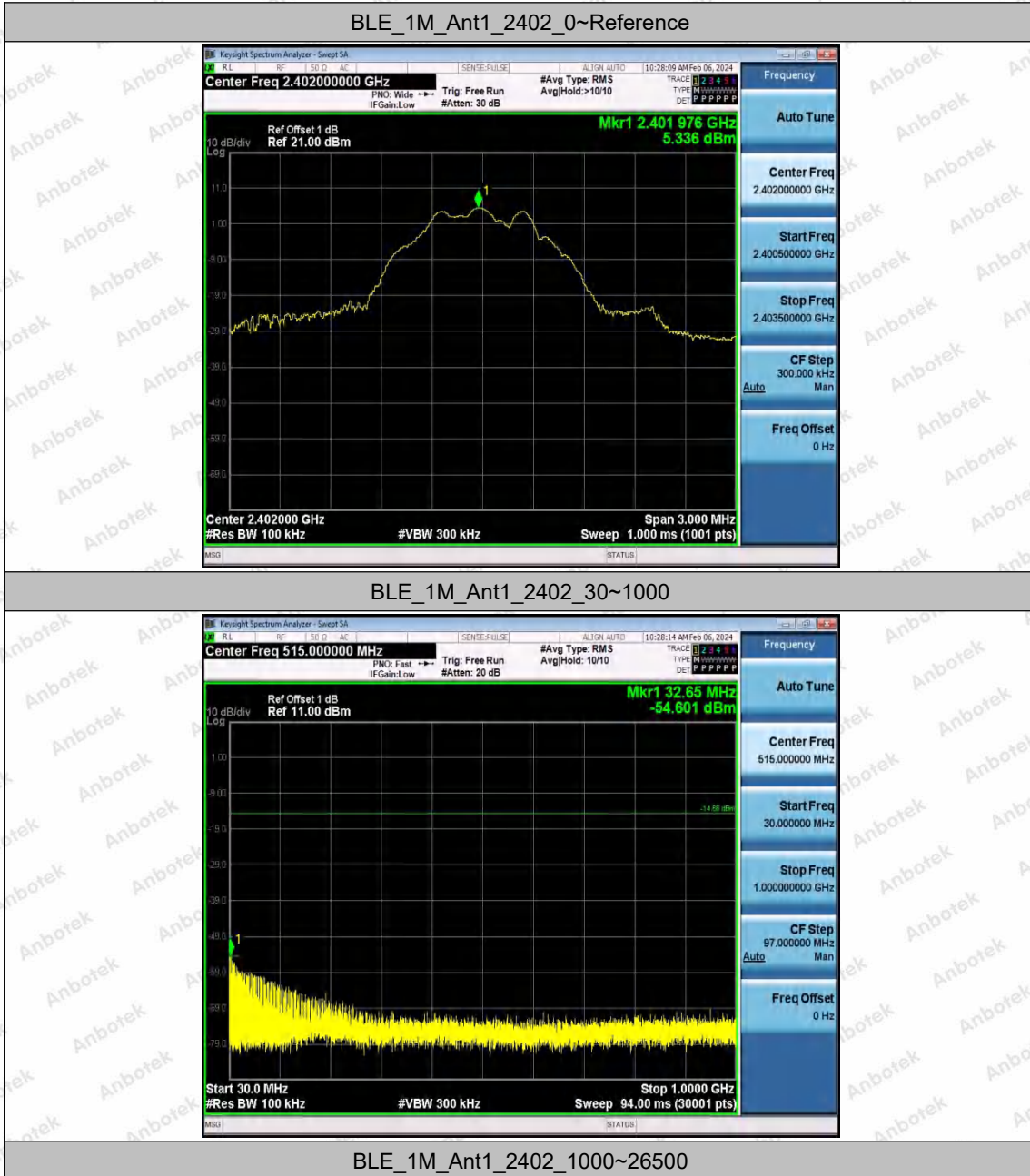
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	5.34	5.34	---	PASS
			30~1000	5.34	-54.6	≤-14.66	PASS
			1000~26500	5.34	-46.39	≤-14.66	PASS
		2440	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-54.54	≤-14.84	PASS
			1000~26500	5.16	-48.56	≤-14.84	PASS
		2480	Reference	5.00	5.00	---	PASS
			30~1000	5.00	-54.57	≤-15	PASS
			1000~26500	5.00	-53.4	≤-15	PASS
BLE_2M	Ant1	2402	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-54.65	≤-14.67	PASS
			1000~26500	5.33	-51.92	≤-14.67	PASS
		2440	Reference	5.18	5.18	---	PASS
			30~1000	5.18	-54.52	≤-14.82	PASS
			1000~26500	5.18	-48.68	≤-14.82	PASS
		2480	Reference	5.01	5.01	---	PASS
			30~1000	5.01	-54.03	≤-14.99	PASS
			1000~26500	5.01	-52.44	≤-14.99	PASS



Test Graphs

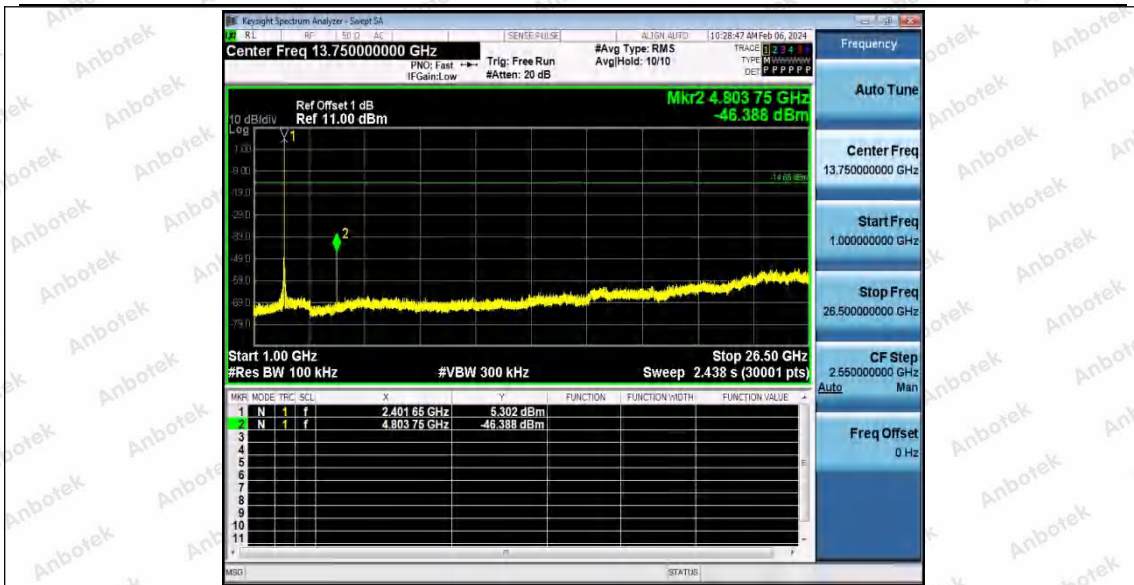


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BLE_1M_Ant1_2440_0~Reference



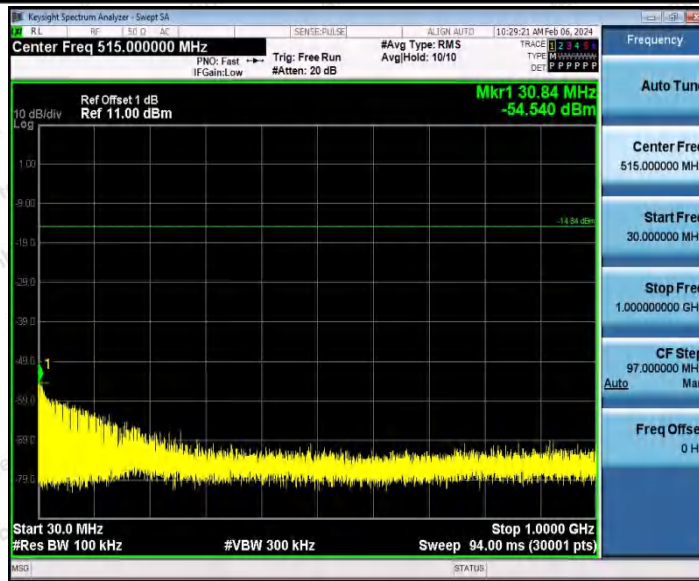
BLE_1M_Ant1_2440_30~1000

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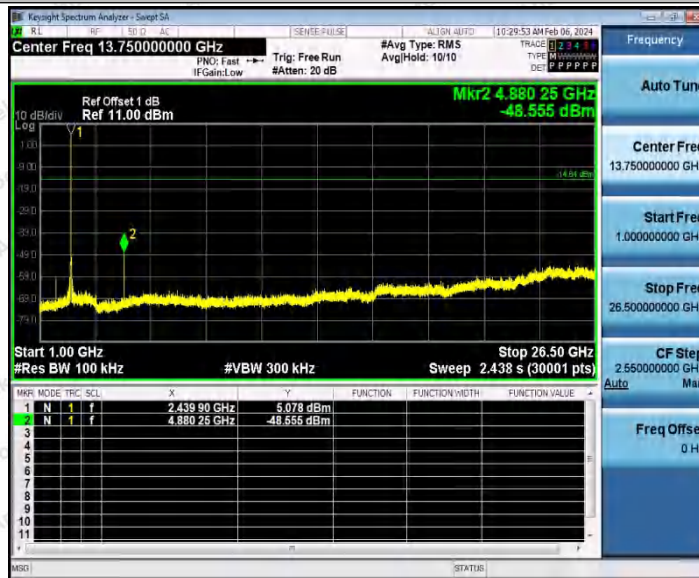
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BLE_1M_Ant1_2440_1000~26500



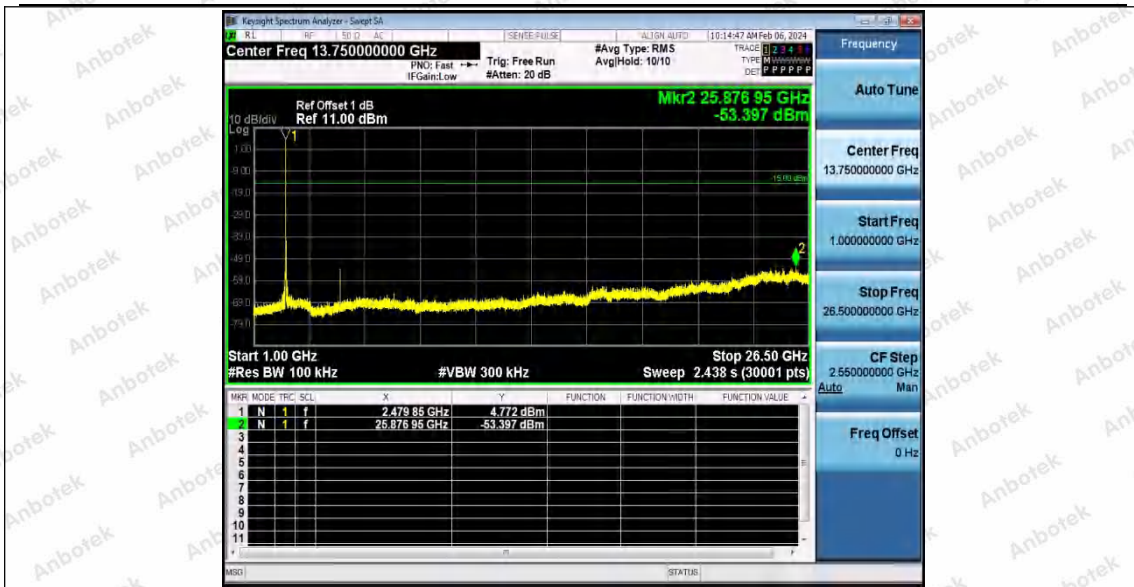
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

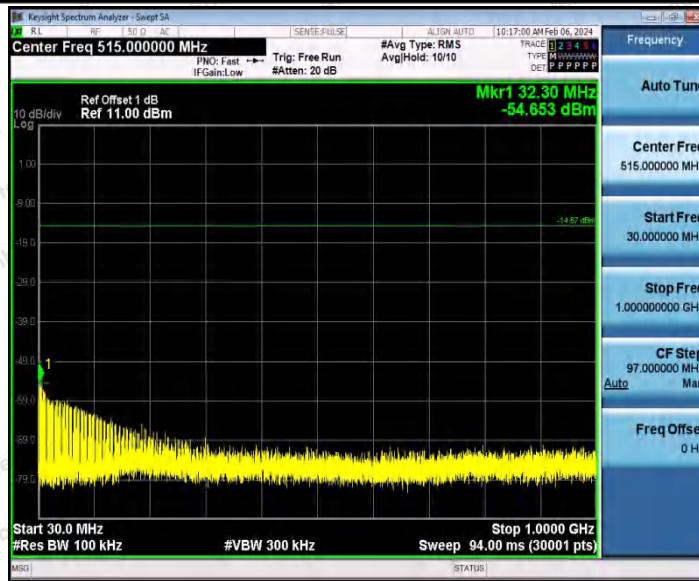
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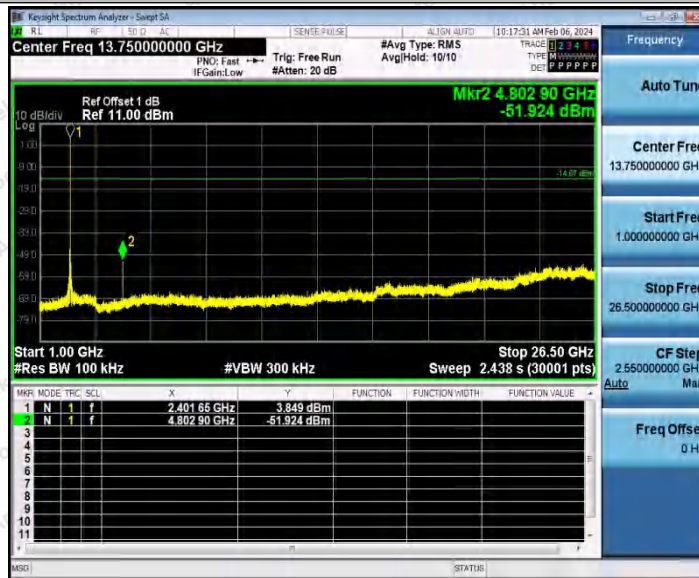


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BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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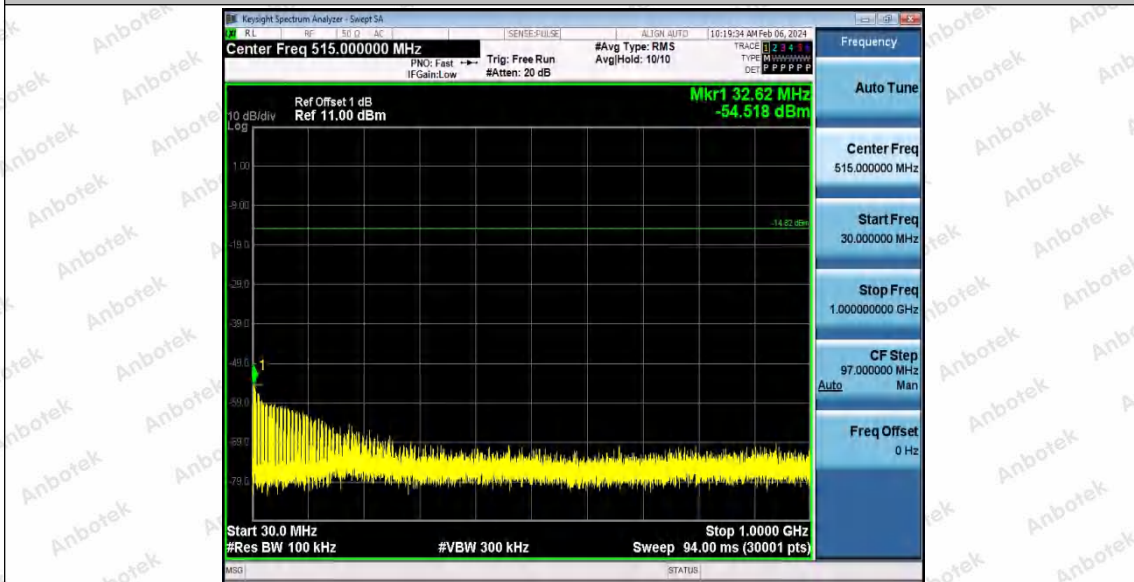
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BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

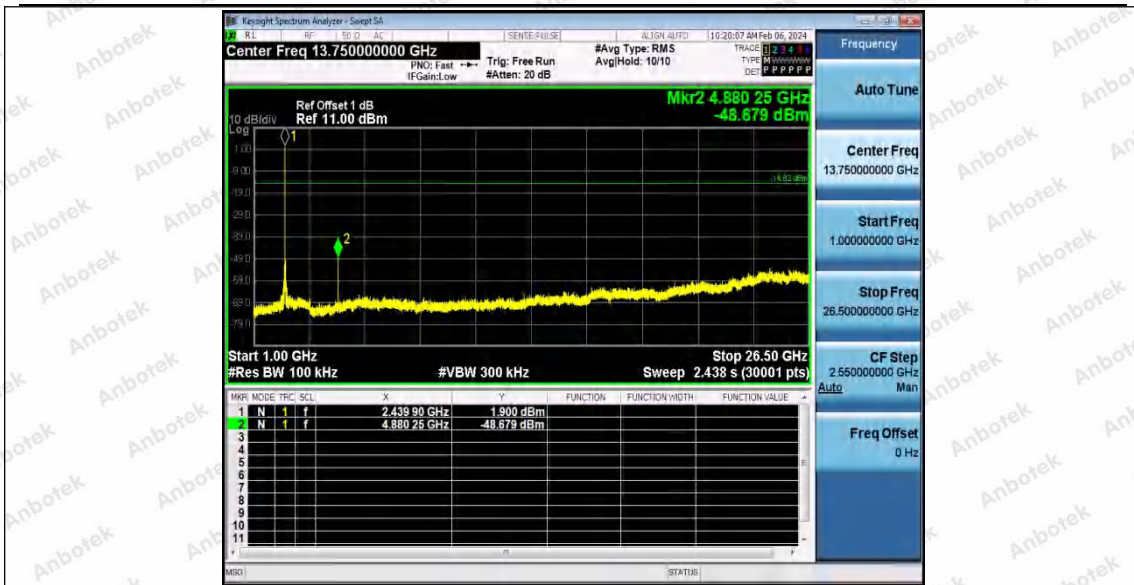
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BLE_2M_Ant1_2480_0~Reference



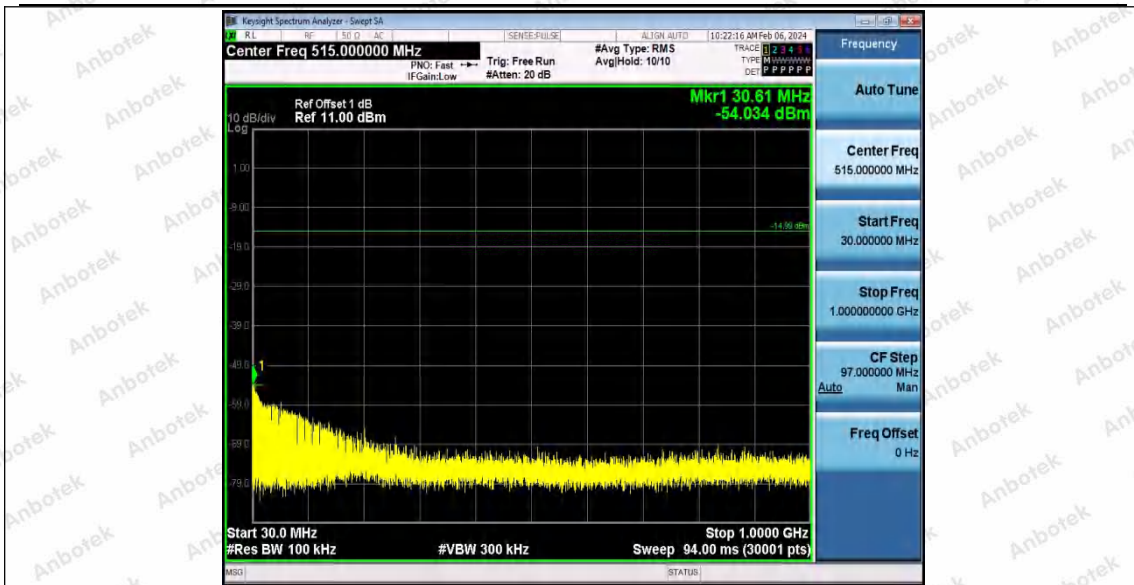
BLE_2M_Ant1_2480_30~1000

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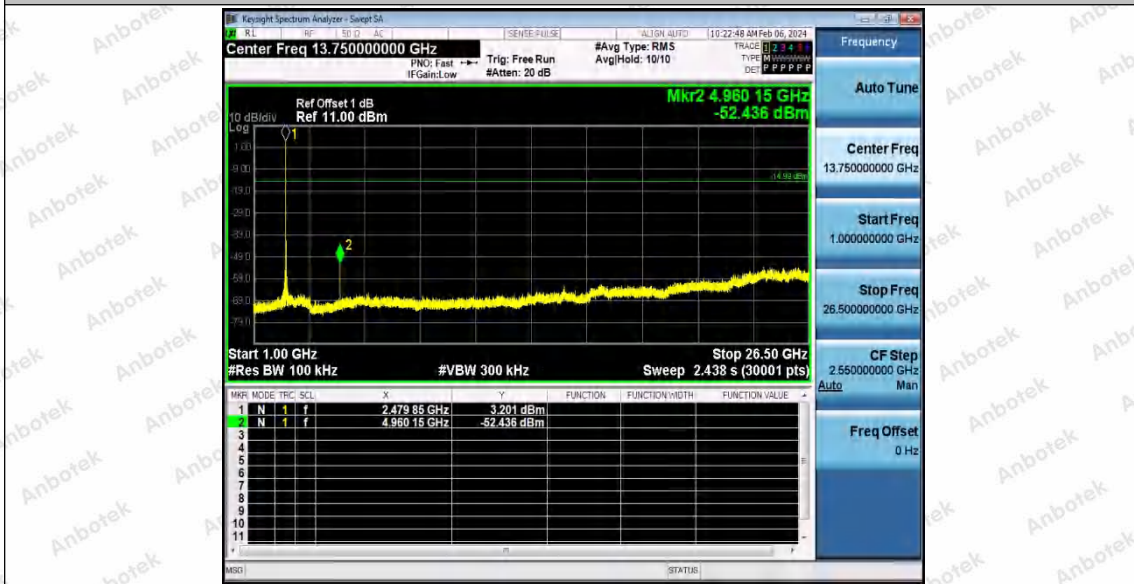
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BLE_2M_Ant1_2480_1000~26500



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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	0.13	0.62	20.97	6.78
		2440	0.13	0.62	20.97	6.78
		2480	0.14	0.63	22.22	6.53
BLE_2M	Ant1	2402	0.10	0.63	15.87	7.99
		2440	0.10	0.62	16.13	7.92
		2480	0.10	0.62	16.13	7.92

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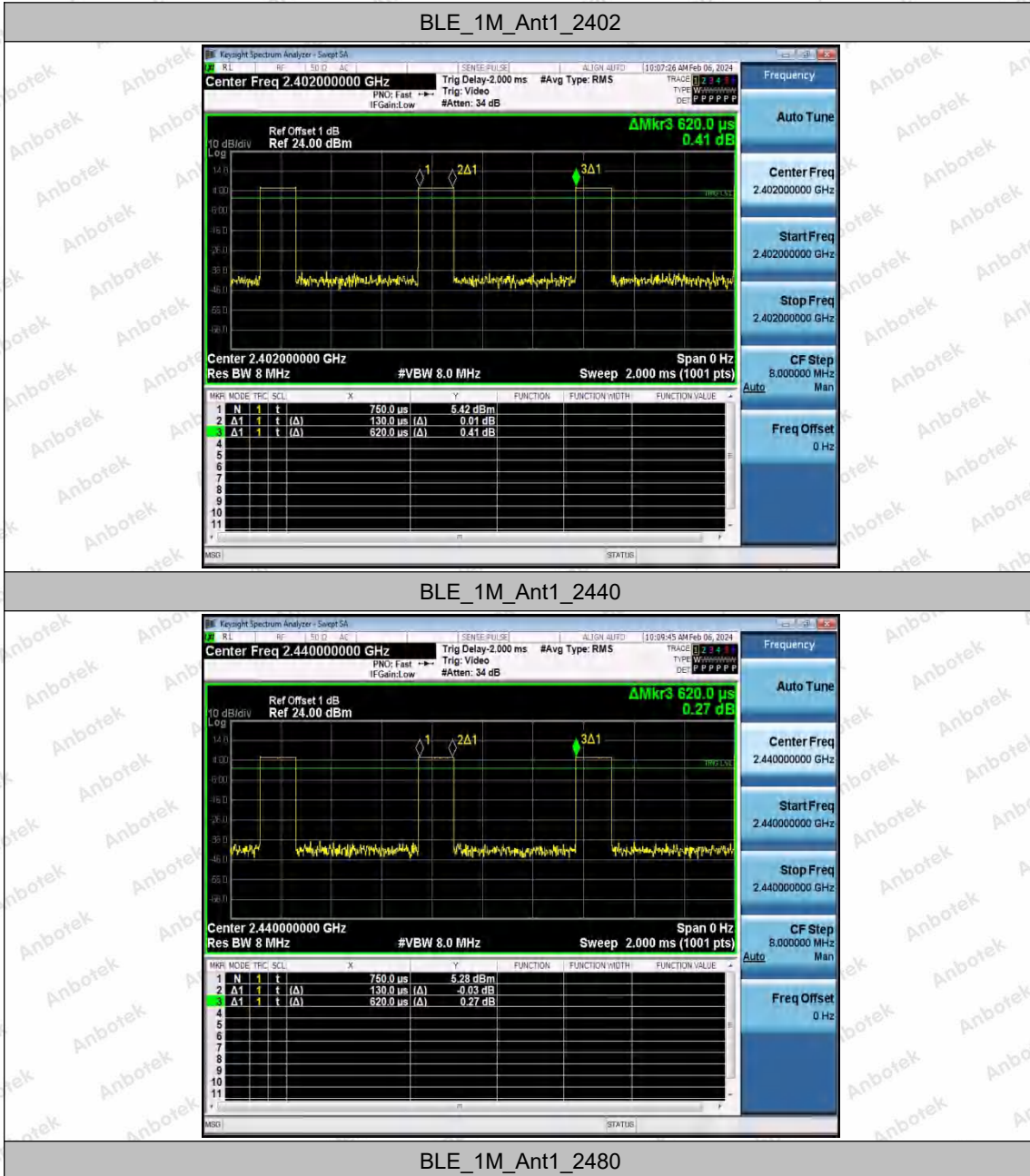
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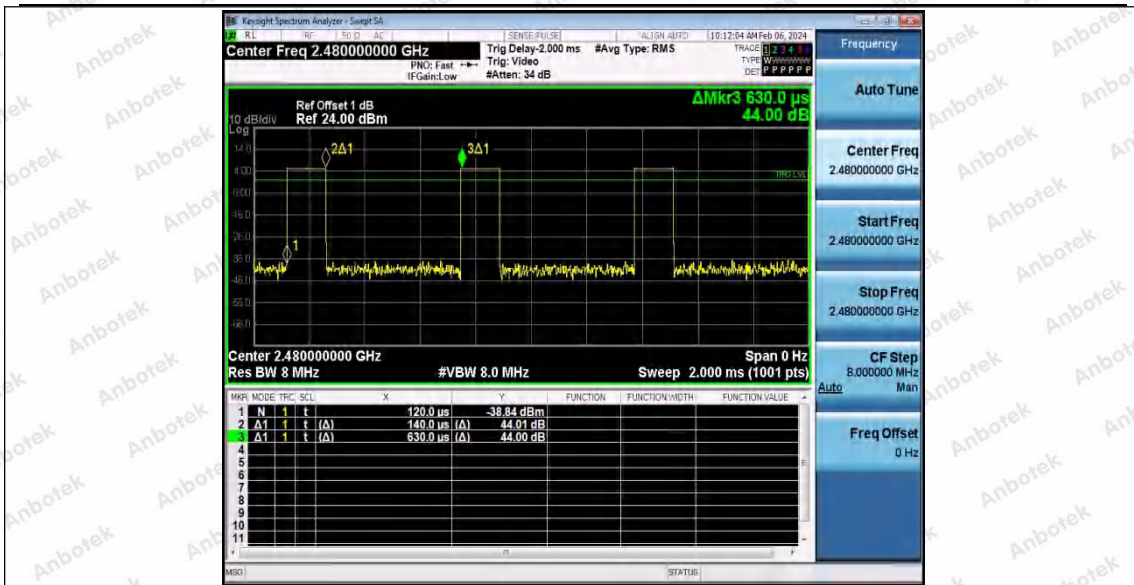
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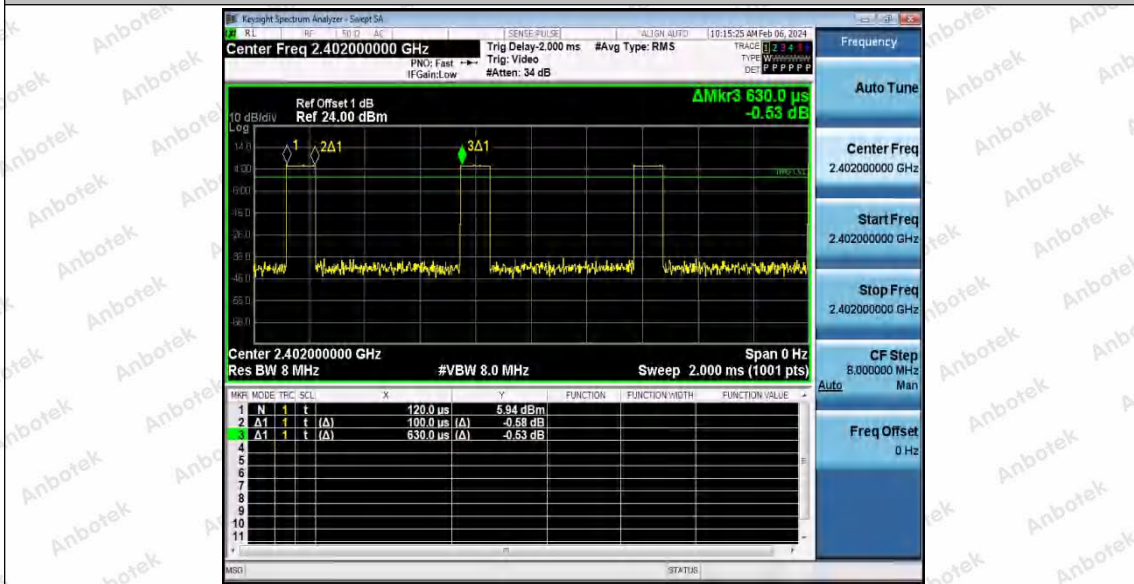


Test Graphs



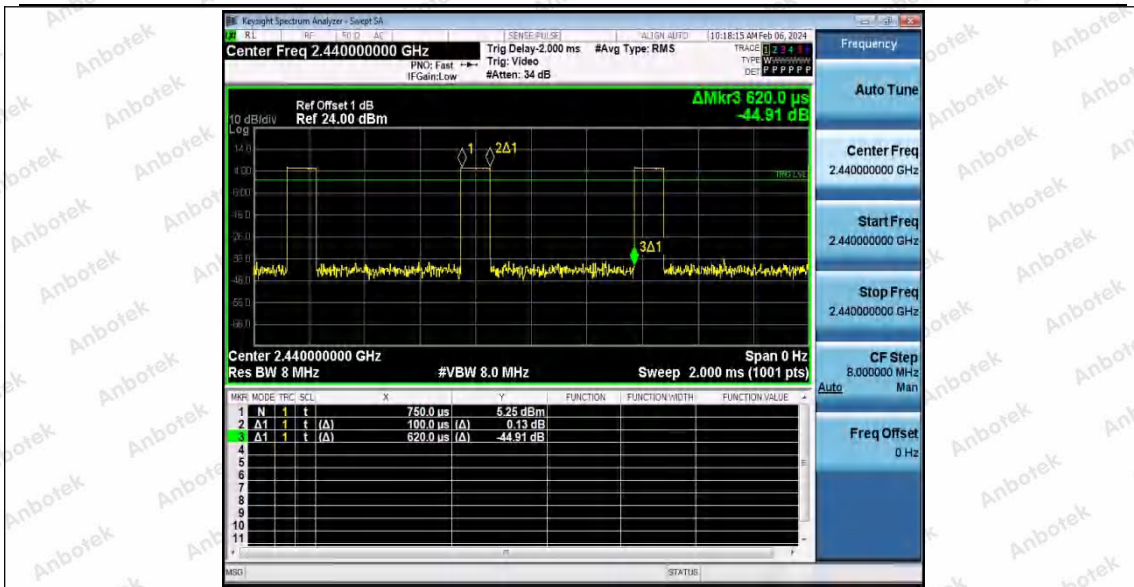


BLE_2M_Ant1_2402

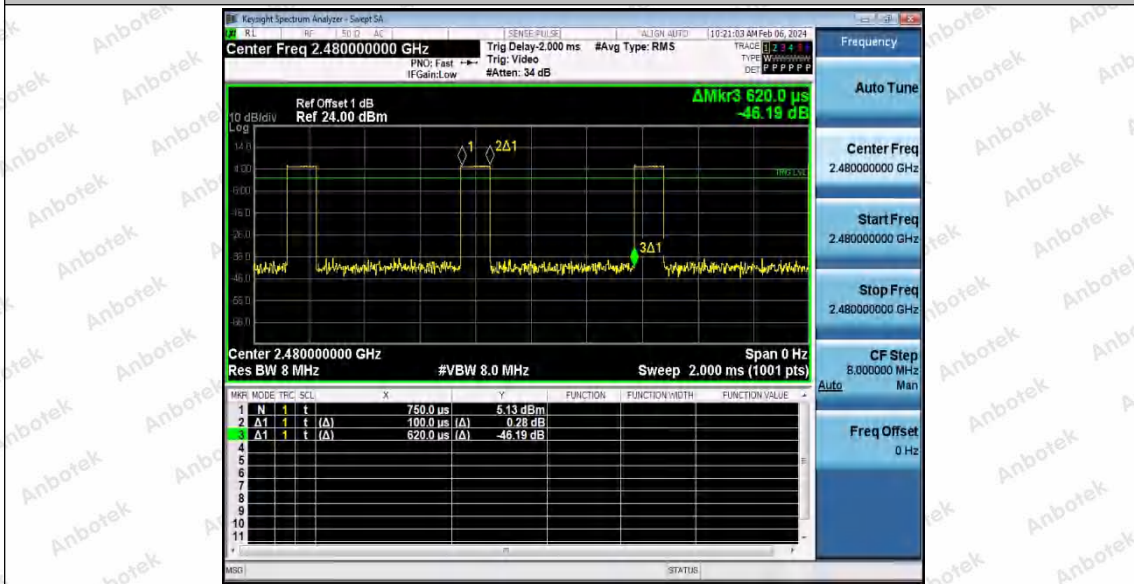


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480



---end---

