

Appendix Test Data

Report No.:	18220WC30256701	Test Sample No.:	1-2-2
Start Test Date:	2023.12.07	Finish Test Date:	2023.12.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	42%
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	0.512	2401.696	2402.208	0.5	PASS
		2440	0.524	2439.696	2440.220	0.5	PASS
		2480	0.528	2479.692	2480.220	0.5	PASS
BLE_2M	Ant1	2402	0.864	2401.436	2402.300	0.5	PASS
		2440	0.860	2439.432	2440.292	0.5	PASS
		2480	0.852	2479.428	2480.280	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	1.0581	2401.5075	2402.5656
		2440	1.0943	2439.4718	2440.5661
		2480	1.1406	2479.4274	2480.5680
BLE_2M	Ant1	2402	2.0567	2401.0190	2403.0757
		2440	2.0647	2439.0134	2441.0781
		2480	2.0851	2478.9998	2481.0849

Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

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BLE_2M_Ant1_2480



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	3.10	≤30	PASS
		2440	3.47	≤30	PASS
		2480	3.55	≤30	PASS
BLE_2M	Ant1	2402	3.11	≤30	PASS
		2440	3.46	≤30	PASS
		2480	3.55	≤30	PASS

Test Graphs Peak





BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



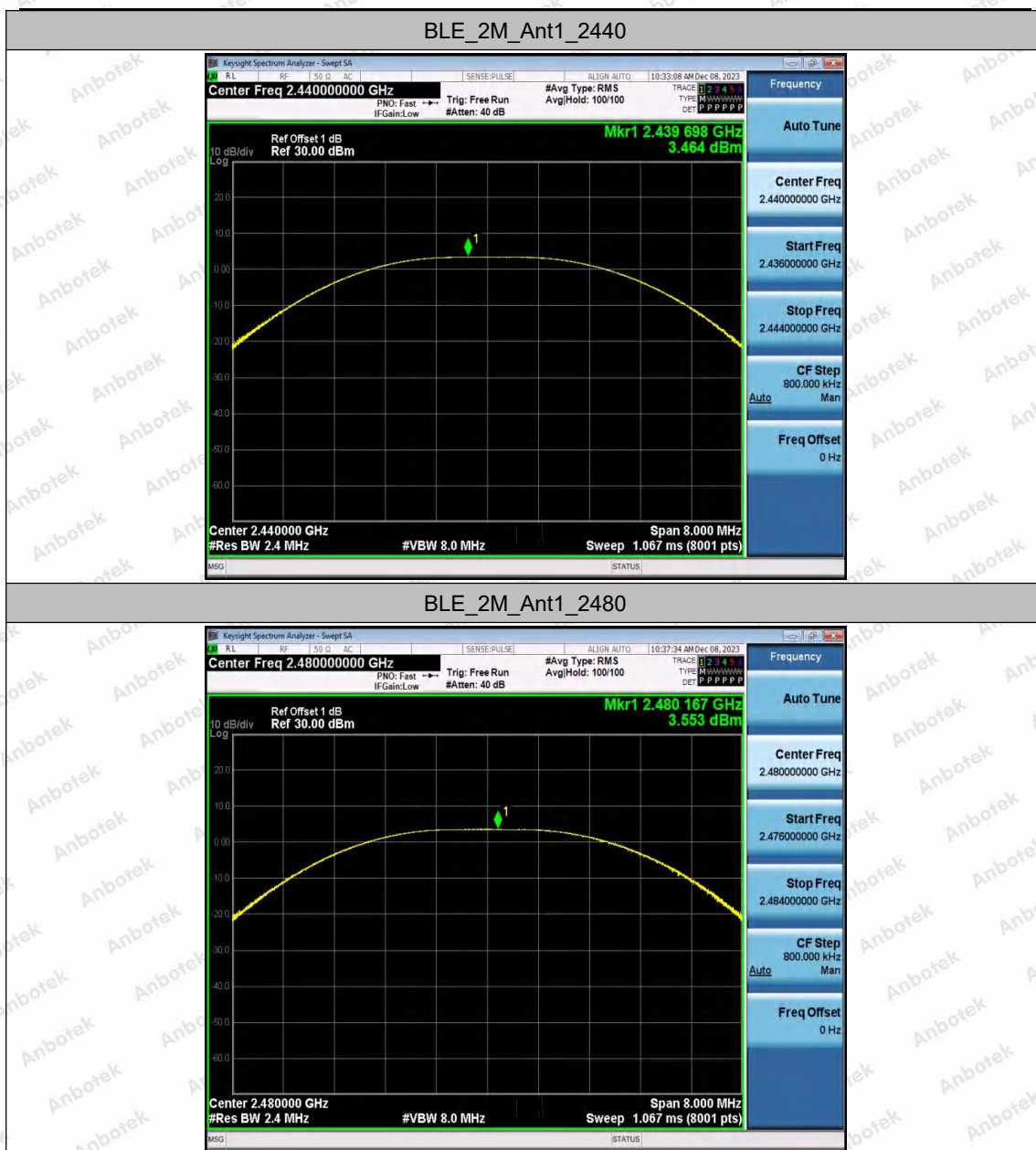
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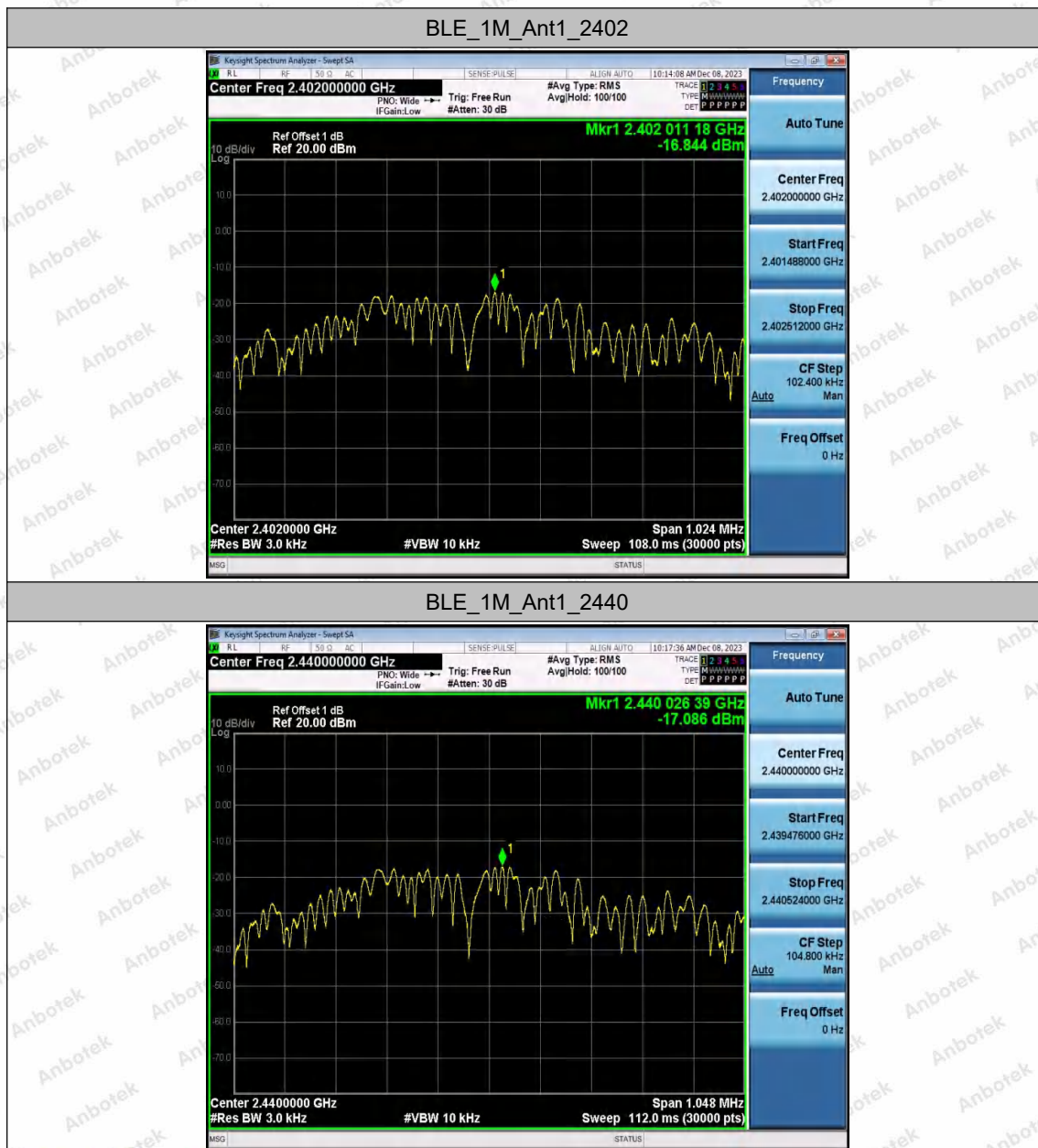


Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.84	≤8.00	PASS
		2440	-17.09	≤8.00	PASS
		2480	-16.74	≤8.00	PASS
BLE_2M	Ant1	2402	-19.39	≤8.00	PASS
		2440	-19.00	≤8.00	PASS
		2480	-18.82	≤8.00	PASS

Test Graphs



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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

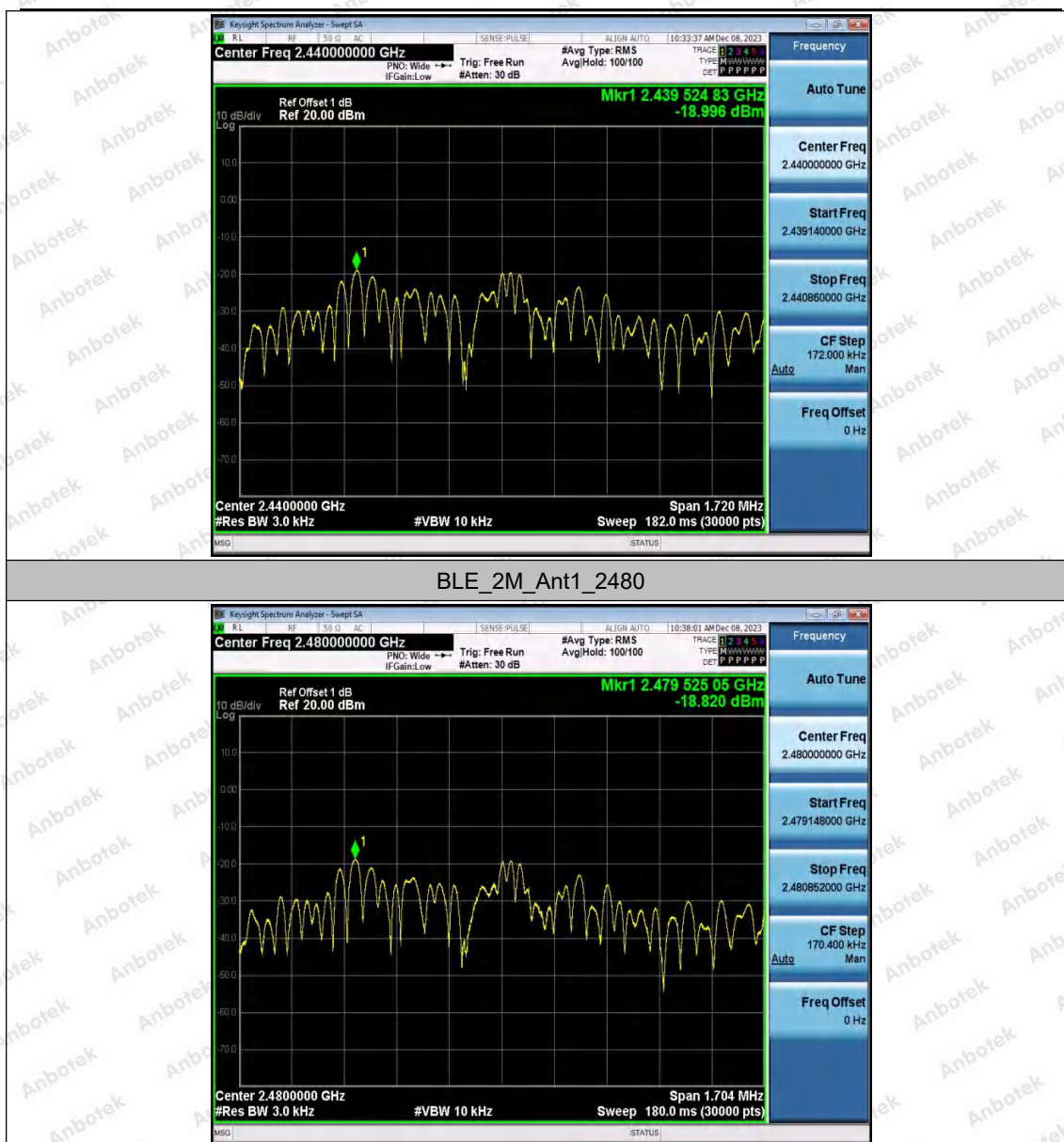
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Appendix E: Band edge measurements

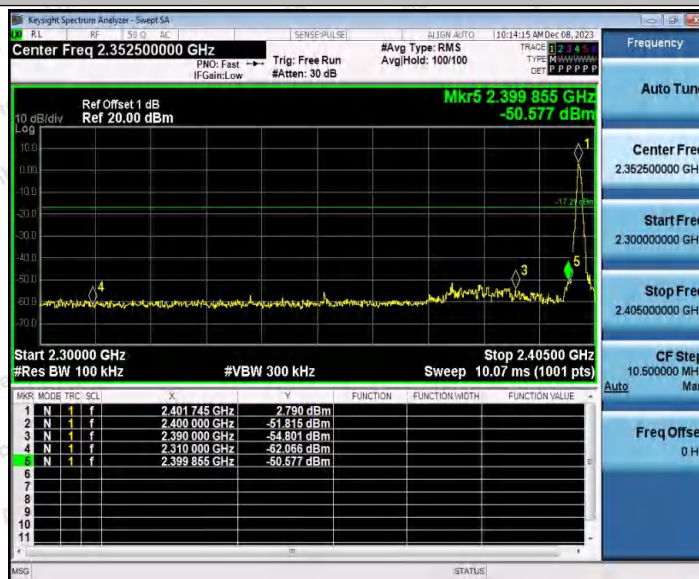
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.79	-50.58	≤-17.21	PASS
		High	2480	2.81	-49.62	≤-17.19	PASS
BLE_2M	Ant1	Low	2402	1.97	-31.87	≤-18.03	PASS
		High	2480	2.87	-47.1	≤-17.13	PASS

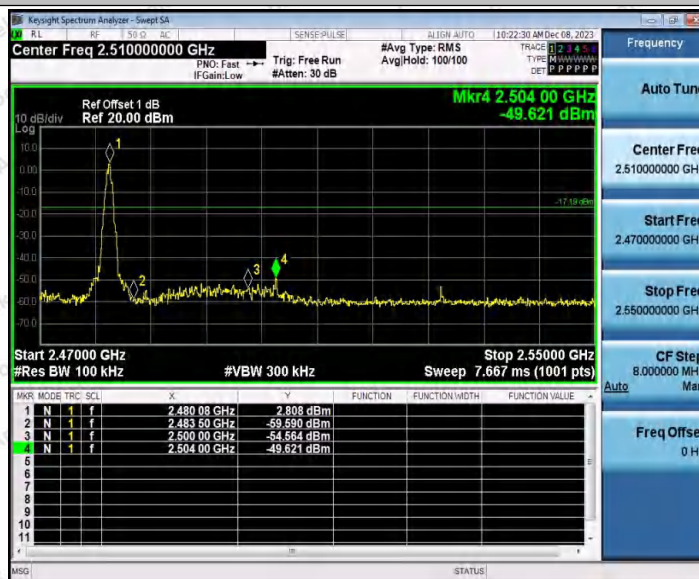


Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402

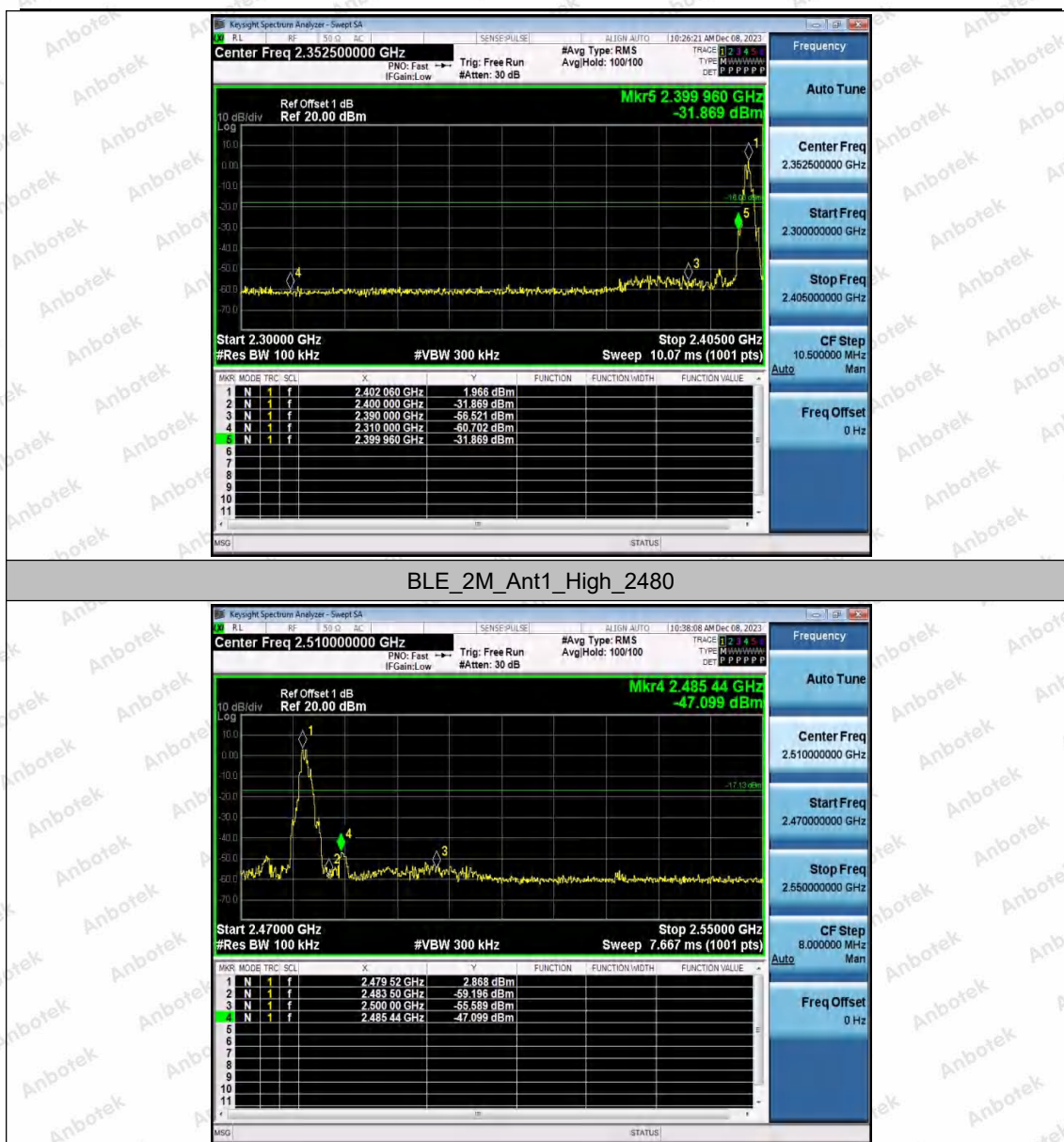
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-69.15	≤-17.08	PASS
			1000~26500	2.92	-48.96	≤-17.08	PASS
		2440	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-68.95	≤-16.74	PASS
			1000~26500	3.26	-45.61	≤-16.74	PASS
		2480	Reference	3.38	3.38	---	PASS
			30~1000	3.38	-69.71	≤-16.62	PASS
			1000~26500	3.38	-46.98	≤-16.62	PASS
BLE_2M	Ant1	2402	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-69.24	≤-17.78	PASS
			1000~26500	2.22	-44.99	≤-17.78	PASS
		2440	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-69.2	≤-17.43	PASS
			1000~26500	2.57	-50.63	≤-17.43	PASS
		2480	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-68.36	≤-17.17	PASS
			1000~26500	2.83	-44.25	≤-17.17	PASS

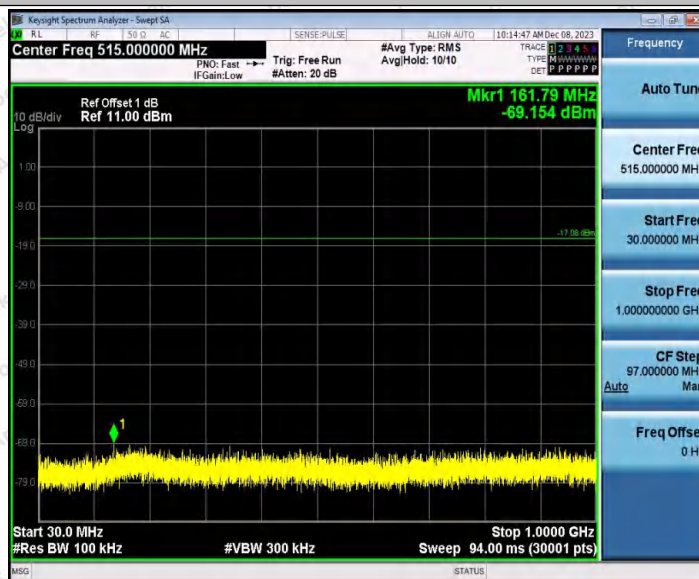


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

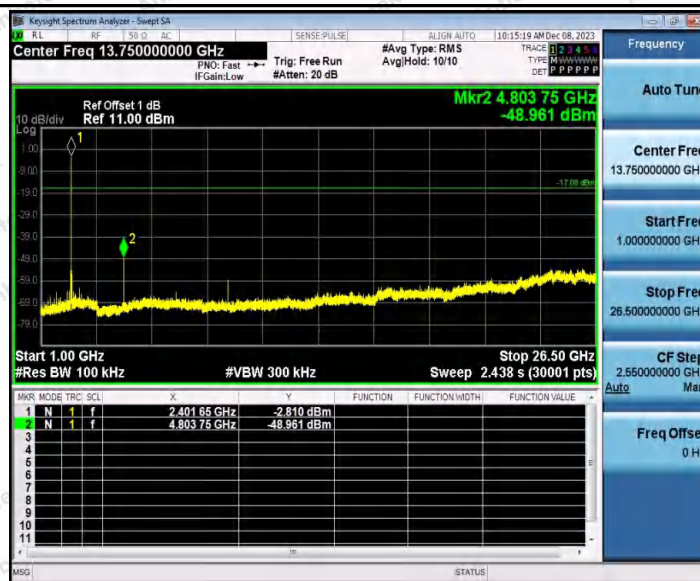
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BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



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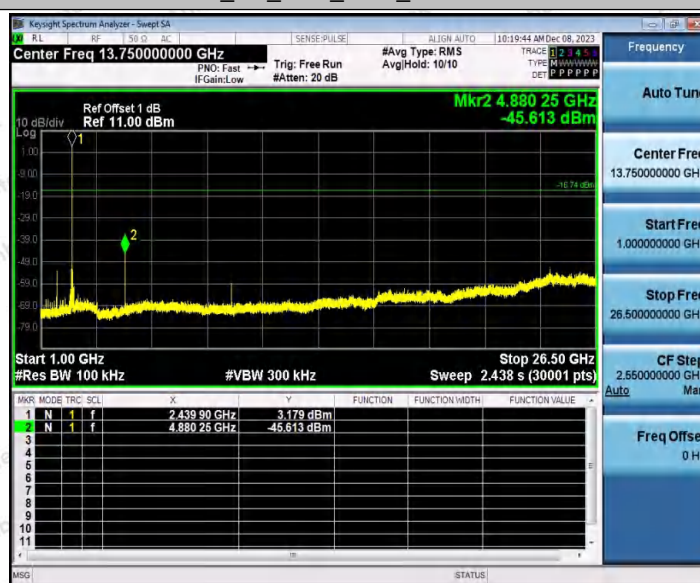
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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

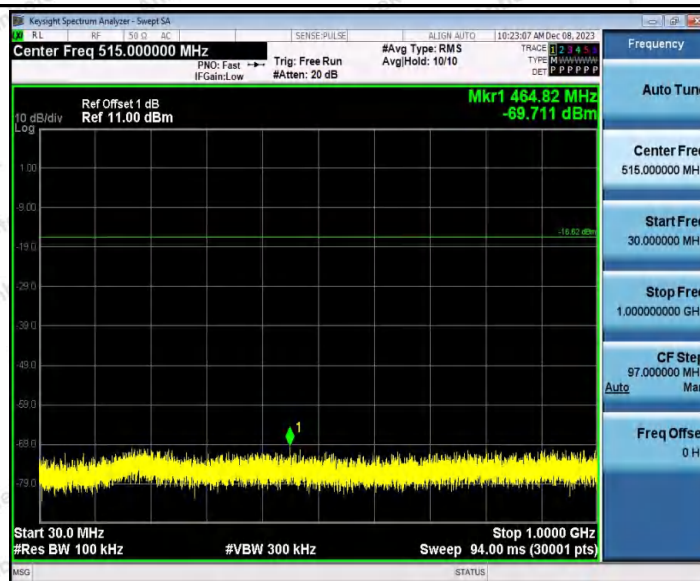
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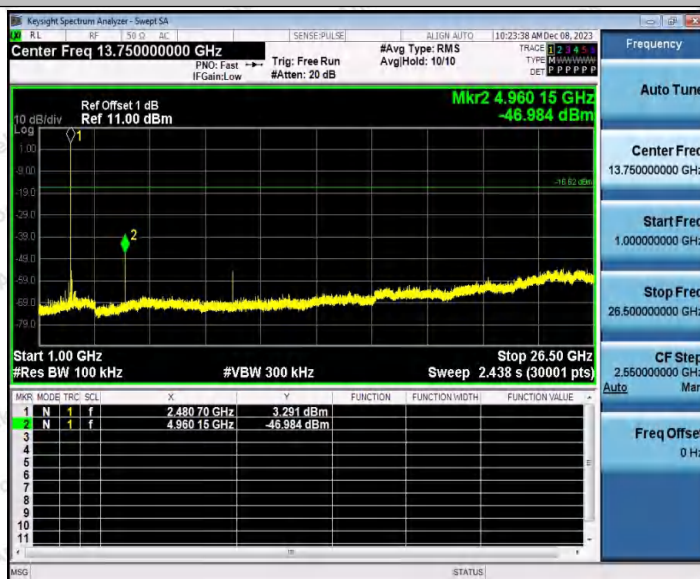


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BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



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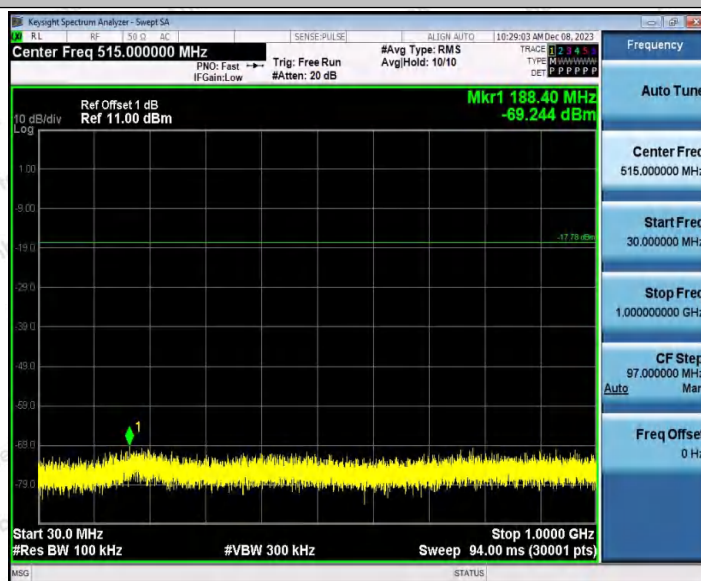
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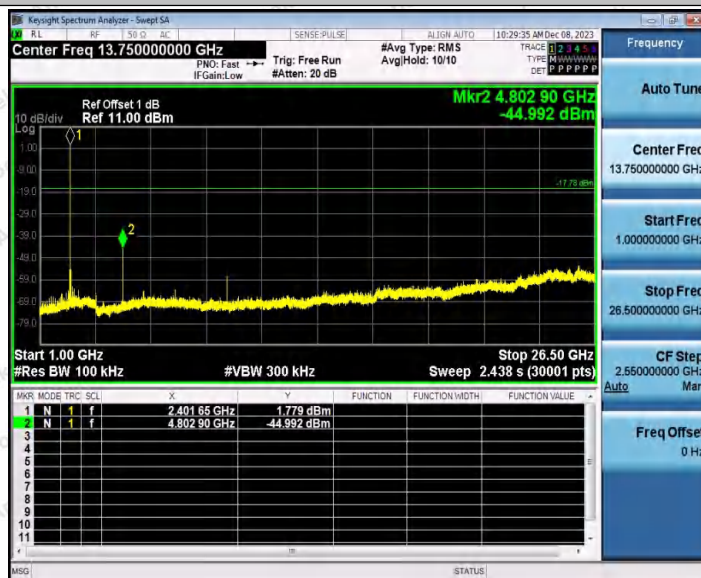
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BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference

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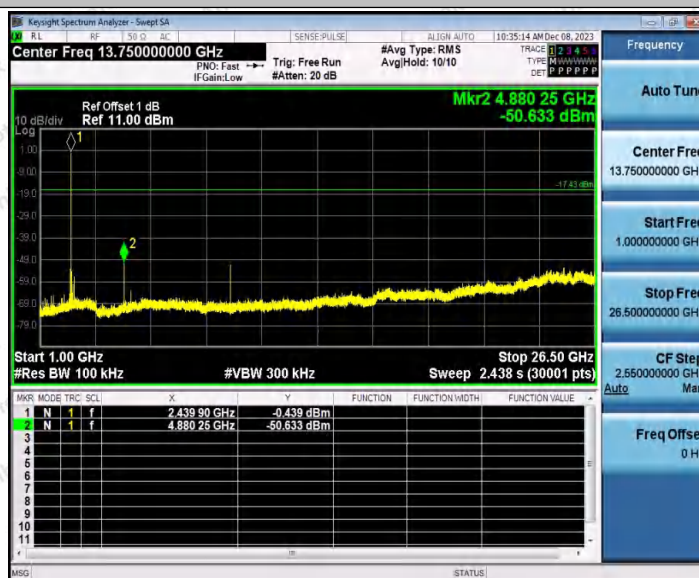




BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



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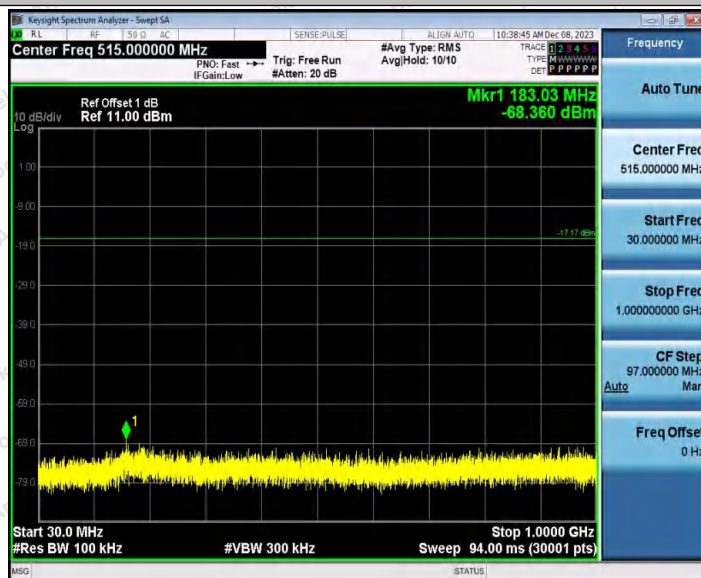
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500

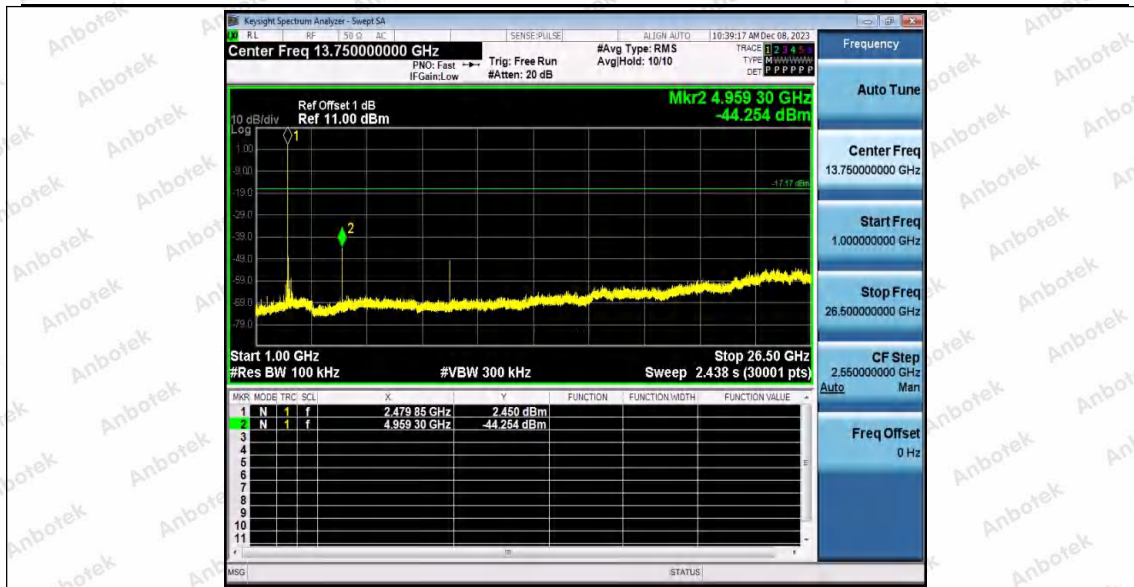
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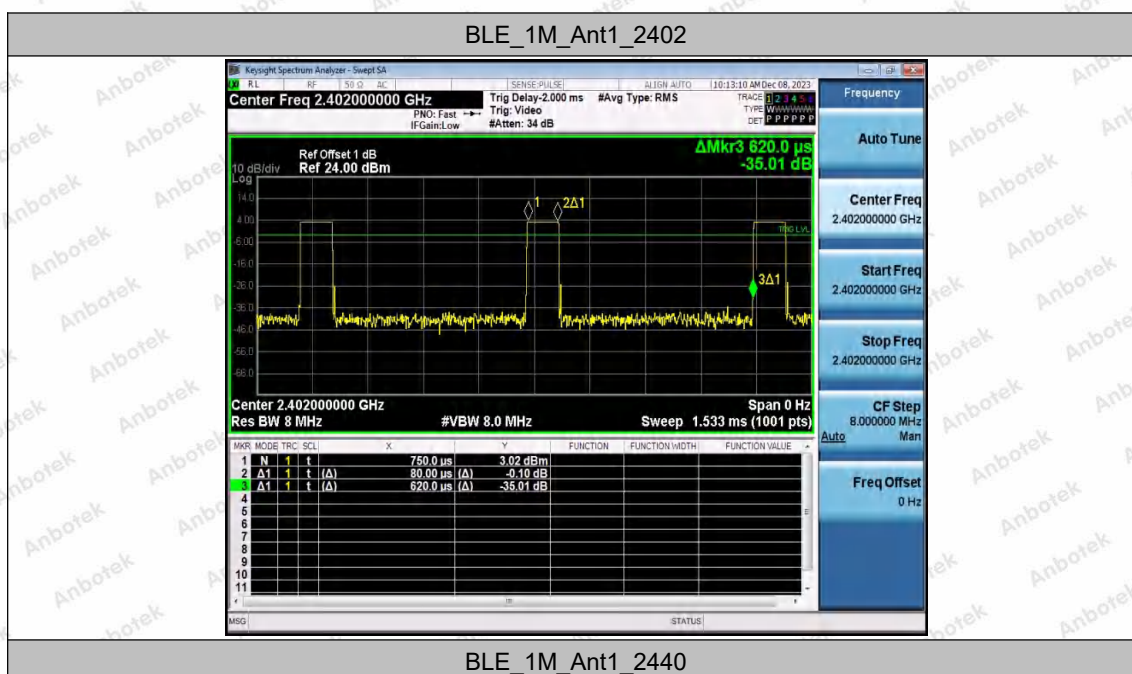


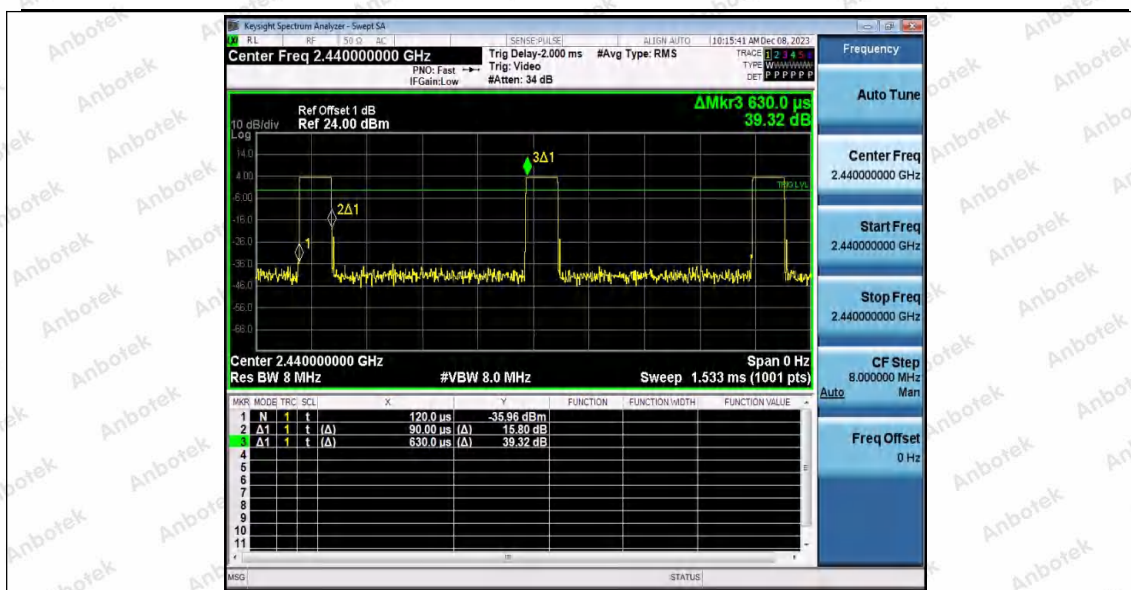
Appendix G: Duty Cycle

Test Result

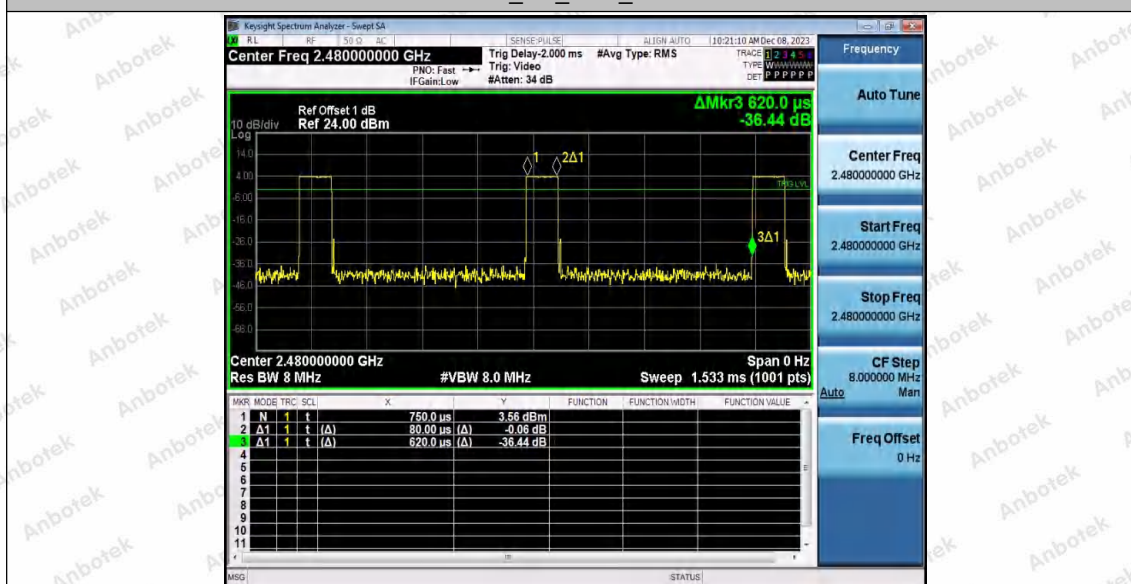
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.08	0.62	12.90	8.89
		2440	0.09	0.63	14.29	8.45
		2480	0.08	0.62	12.90	8.89
BLE_2M	Ant1	2402	0.05	0.62	8.06	10.94
		2440	0.06	0.63	9.52	10.21
		2480	0.06	0.63	9.52	10.21

Test Graphs

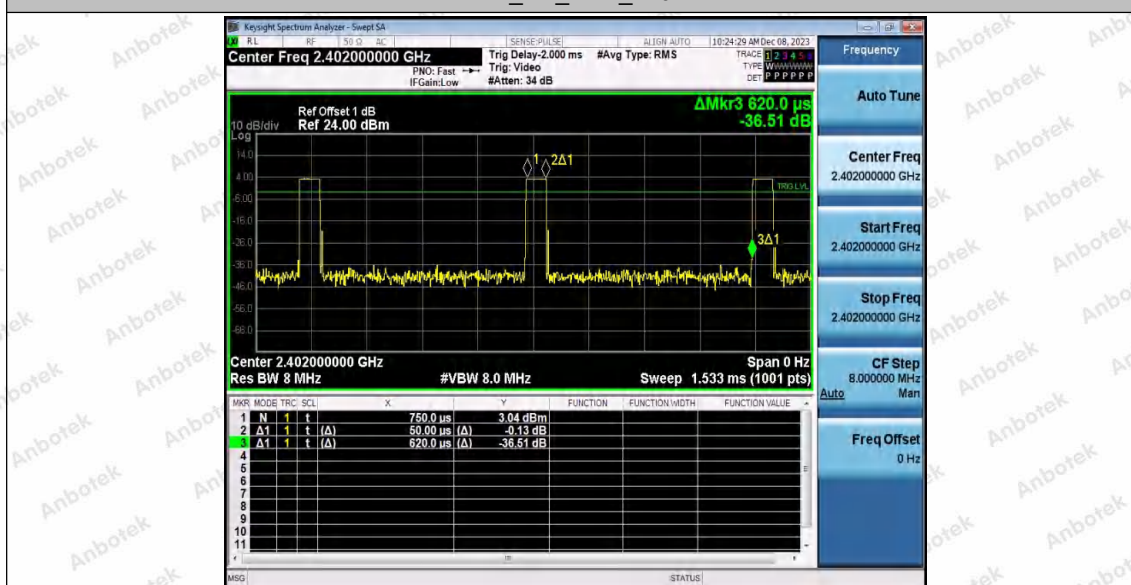




BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



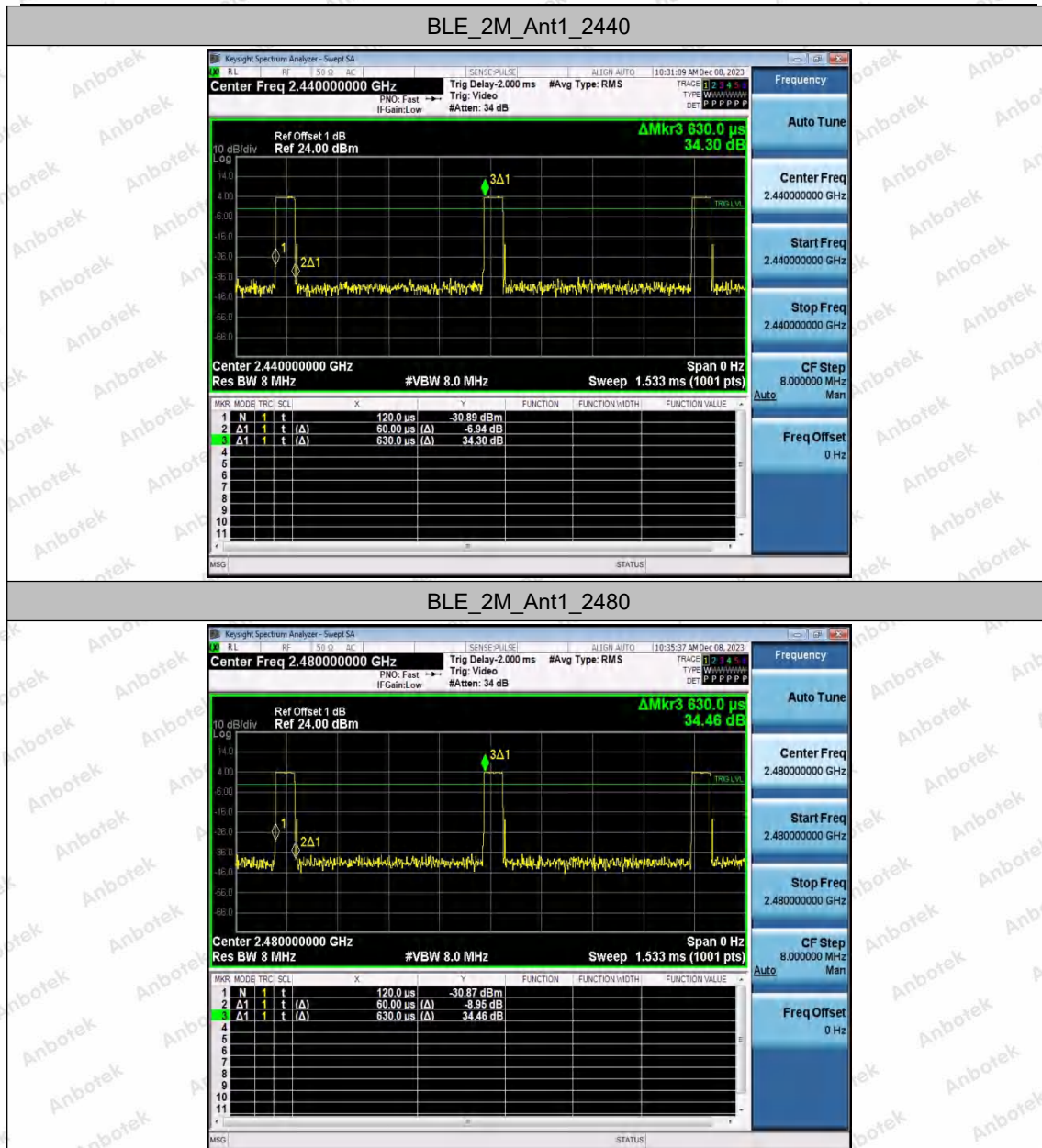
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