

Appendix Test Data

Report No.:	18220WC20191301	Test Sample No.:	1-2-2
Start Test Date:	2022.8.17	Finish Test Date:	2022.8.25
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3°C	Relative Humidity:	47 %
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	0.720	2401.668	2402.388	0.5	PASS
		2440	0.680	2439.692	2440.372	0.5	PASS
		2480	0.688	2479.688	2480.376	0.5	PASS
BLE_2M	Ant1	2402	1.136	2401.460	2402.596	0.5	PASS
		2440	1.120	2439.476	2440.596	0.5	PASS
		2480	1.100	2479.496	2480.596	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

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0507	2401.5117	2402.5624
		2440	1.0487	2439.5142	2440.5629
		2480	1.0612	2479.5071	2480.5683
BLE_2M	Ant1	2402	2.0519	2401.0227	2403.0746
		2440	2.0458	2439.0235	2441.0693
		2480	2.0412	2479.0280	2481.0692



Test Graphs



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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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Appendix C: Maximum conducted output power

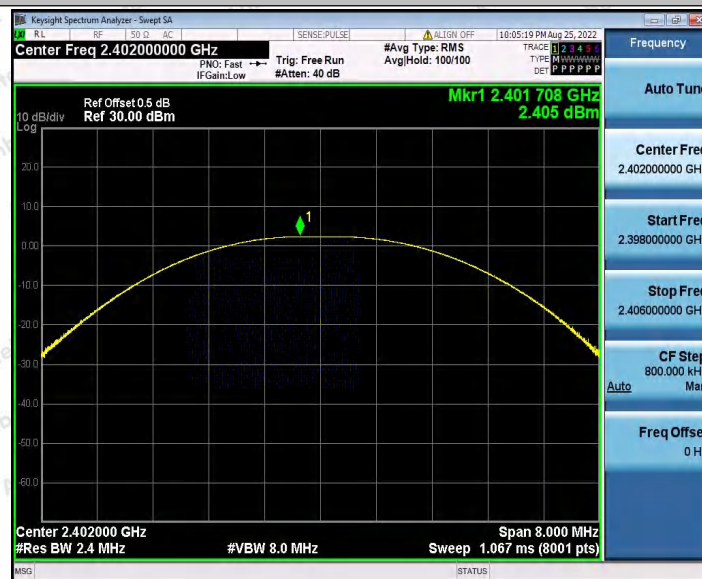
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.41	≤30	PASS
		2440	2.39	≤30	PASS
		2480	2.63	≤30	PASS
BLE_2M	Ant1	2402	2.39	≤30	PASS
		2440	2.38	≤30	PASS
		2480	2.62	≤30	PASS



Test Graphs Peak

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

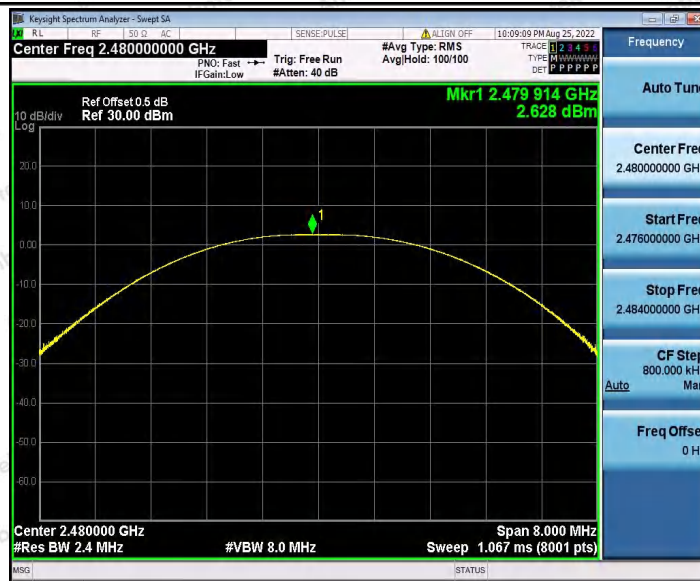
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BLE_2M_Ant1_2402



BLE_2M_Ant1_2440

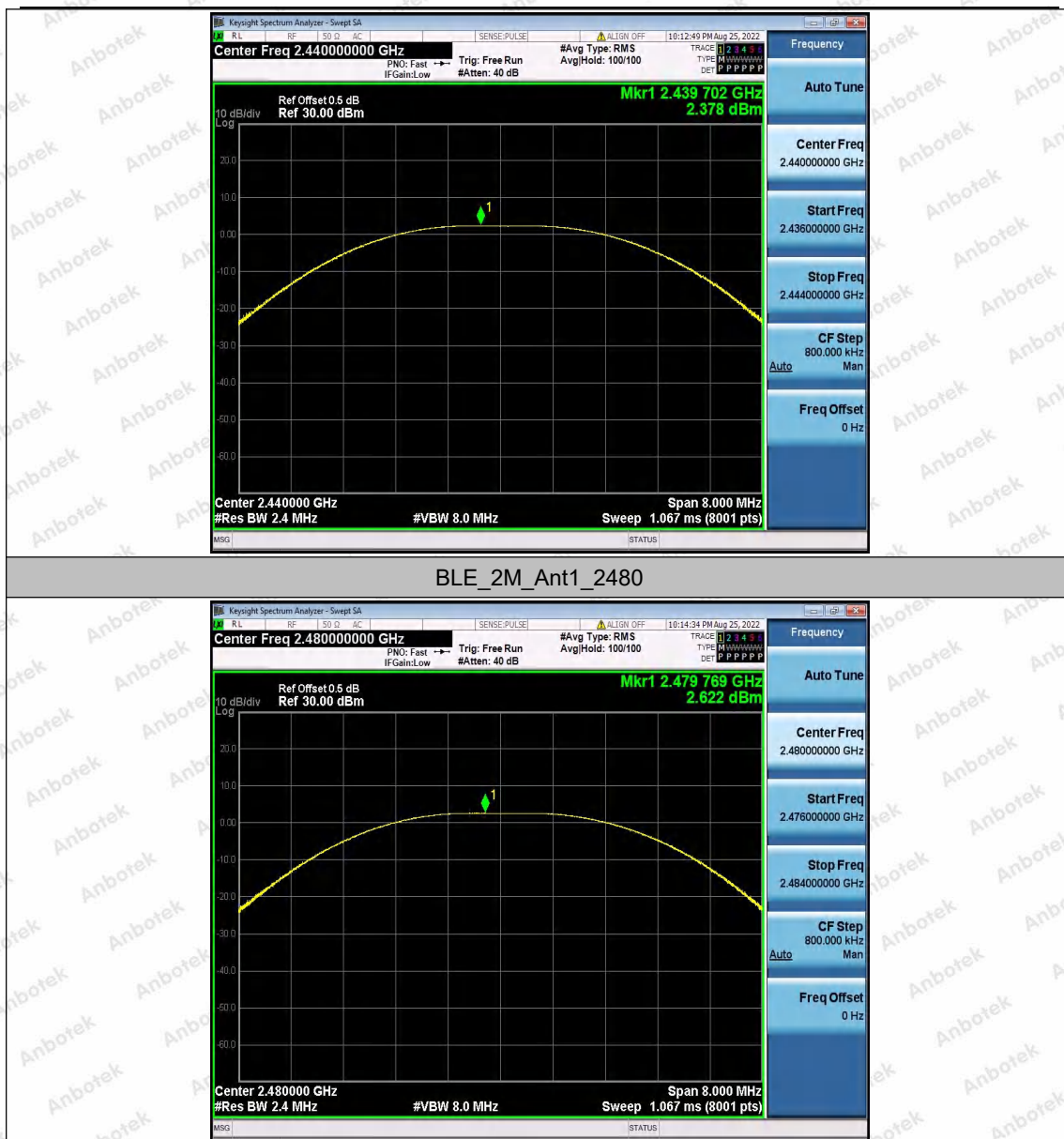
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Appendix D: Maximum power spectral density

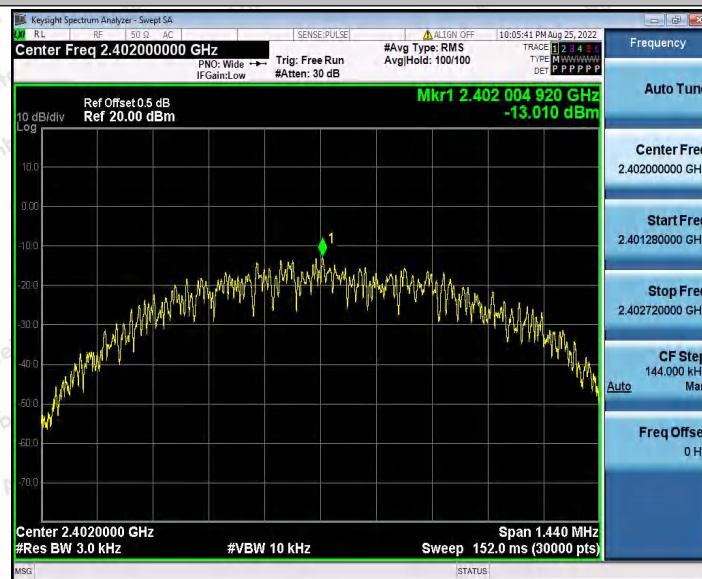
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.01	≤8.00	PASS
		2440	-13.25	≤8.00	PASS
		2480	-12.89	≤8.00	PASS
BLE_2M	Ant1	2402	-15.5	≤8.00	PASS
		2440	-15.69	≤8.00	PASS
		2480	-15.54	≤8.00	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

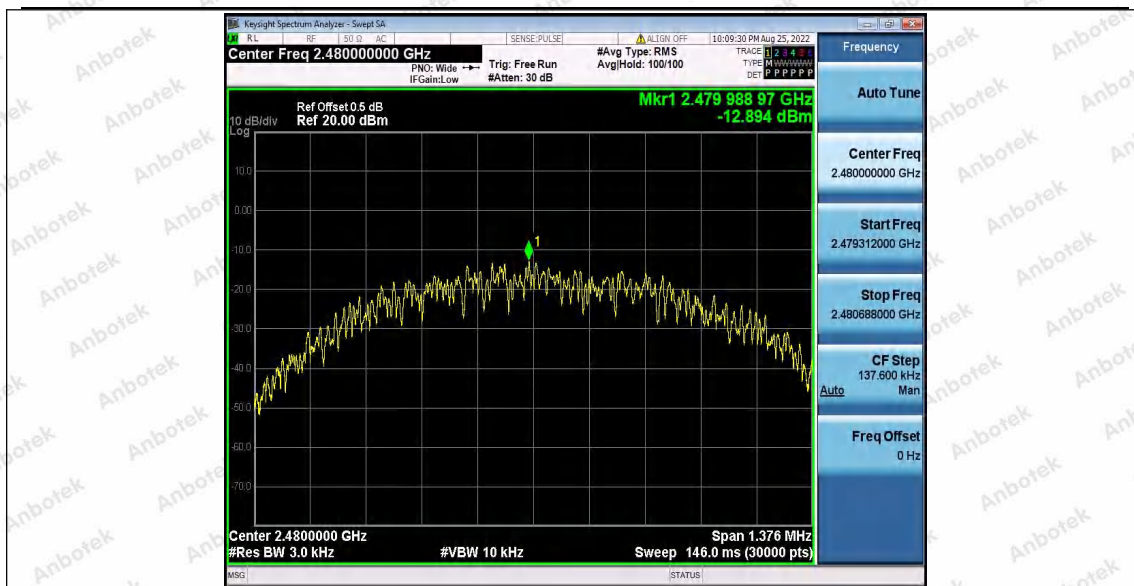
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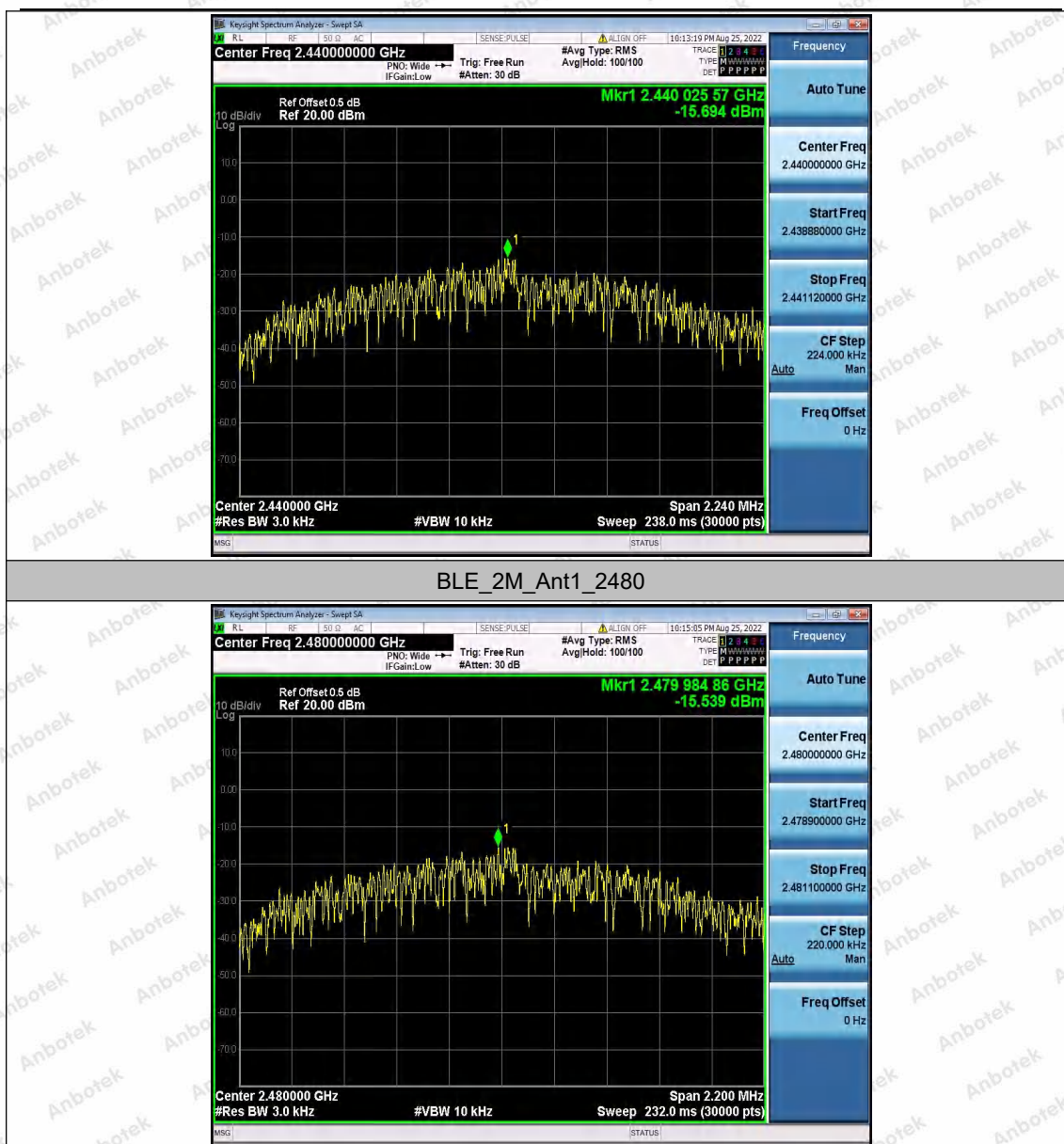


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





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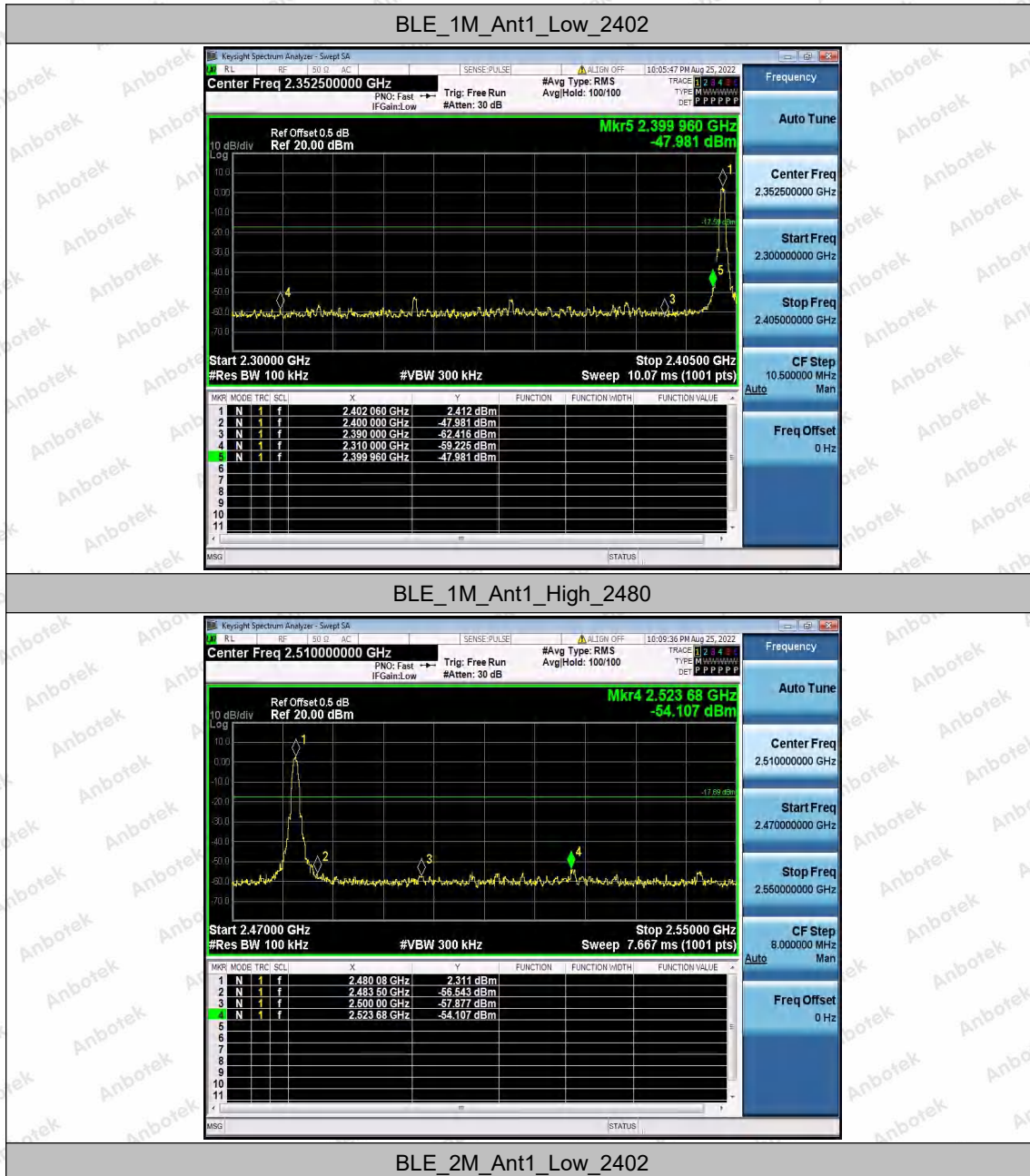
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.41	-47.98	≤-17.59	PASS
		High	2480	2.31	-54.11	≤-17.69	PASS
BLE_2M	Ant1	Low	2402	2.43	-33.56	≤-17.58	PASS
		High	2480	2.44	-53.31	≤-17.56	PASS



Test Graphs



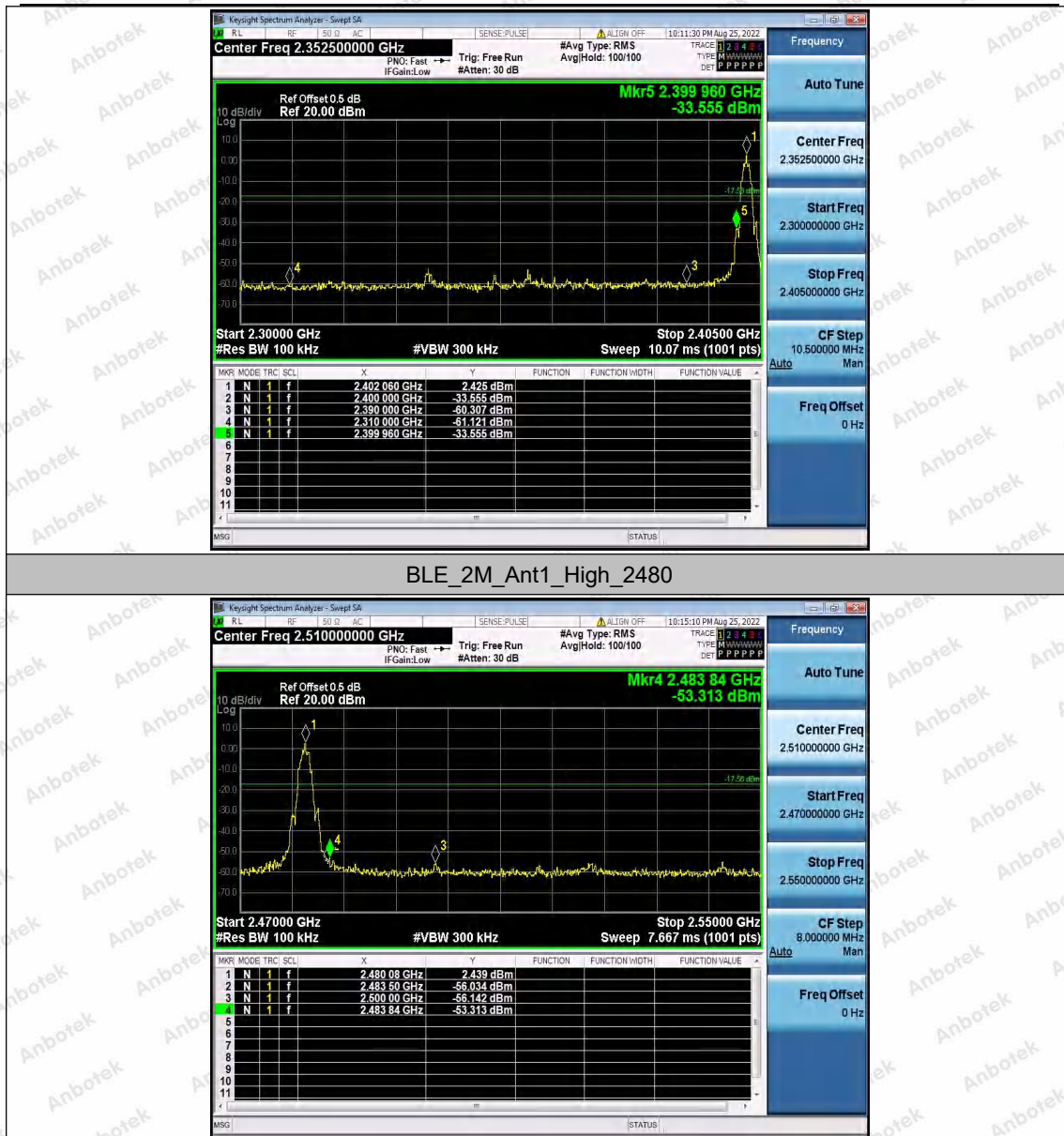
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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-69.66	≤-27.82	PASS
			1000~26500	2.18	-53.49	≤-27.82	PASS
		2440	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-69.21	≤-27.79	PASS
			1000~26500	2.21	-54.17	≤-27.79	PASS
		2480	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-69.59	≤-28.24	PASS
			1000~26500	1.76	-53.47	≤-28.24	PASS
BLE_2M	Ant1	2402	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-68.92	≤-31.82	PASS
			1000~26500	-1.82	-53.77	≤-31.82	PASS
		2440	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-69.24	≤-29.61	PASS
			1000~26500	0.39	-54.06	≤-29.61	PASS
		2480	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-69.73	≤-31.15	PASS
			1000~26500	-1.15	-54.06	≤-31.15	PASS

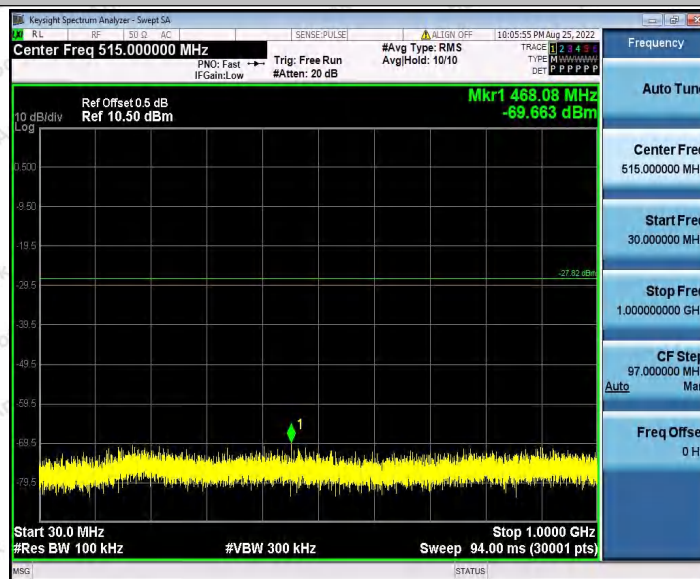


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

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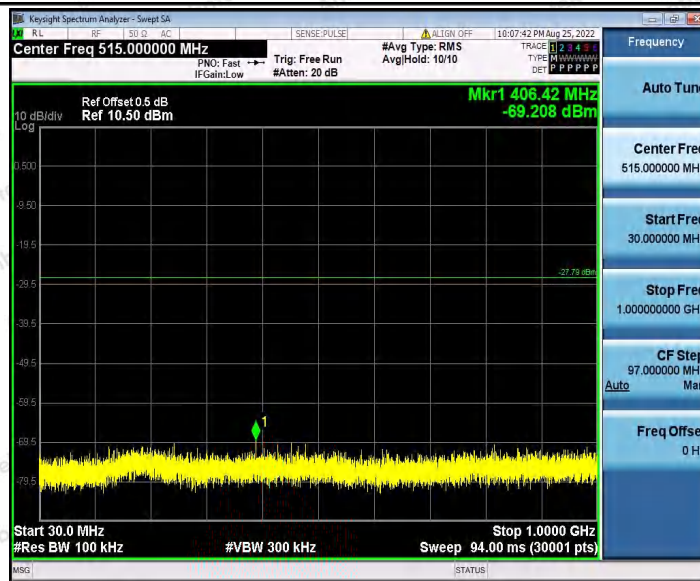


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

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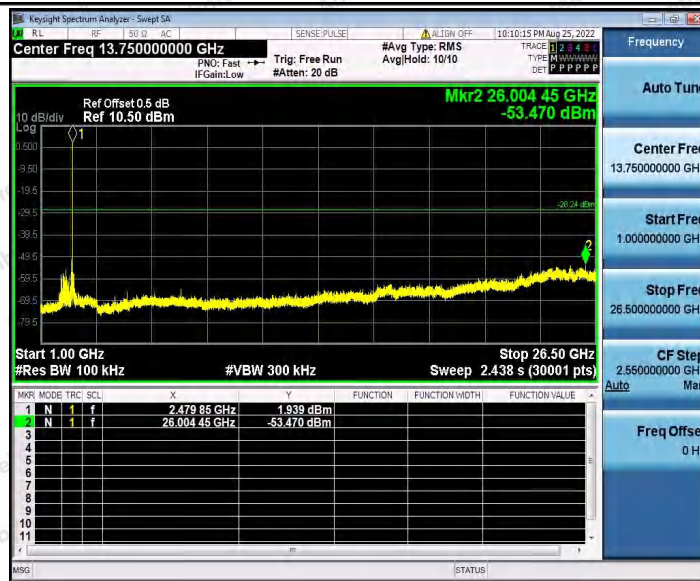
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BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000

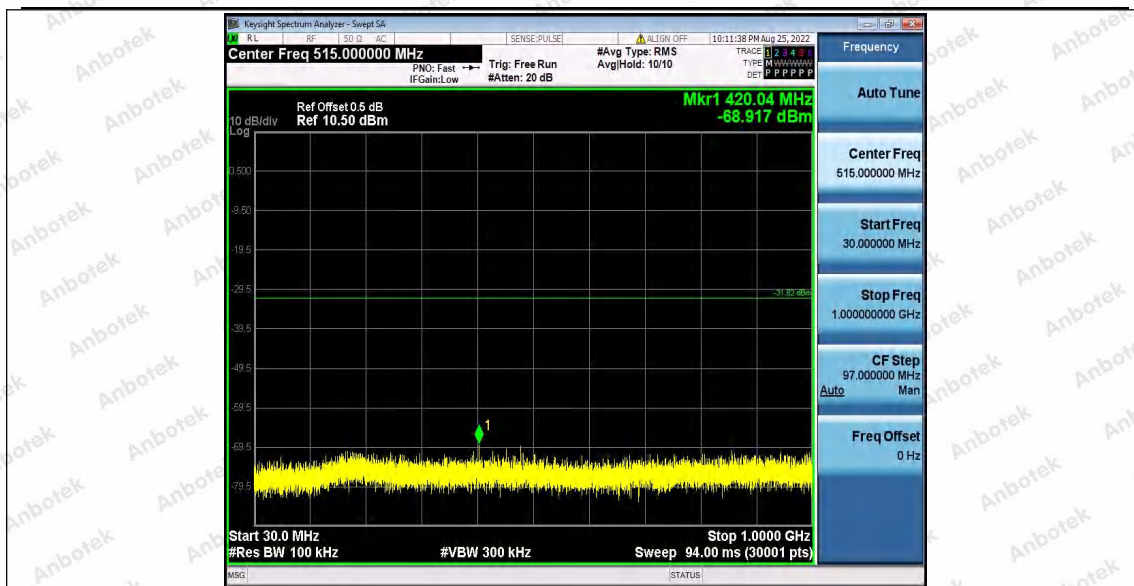
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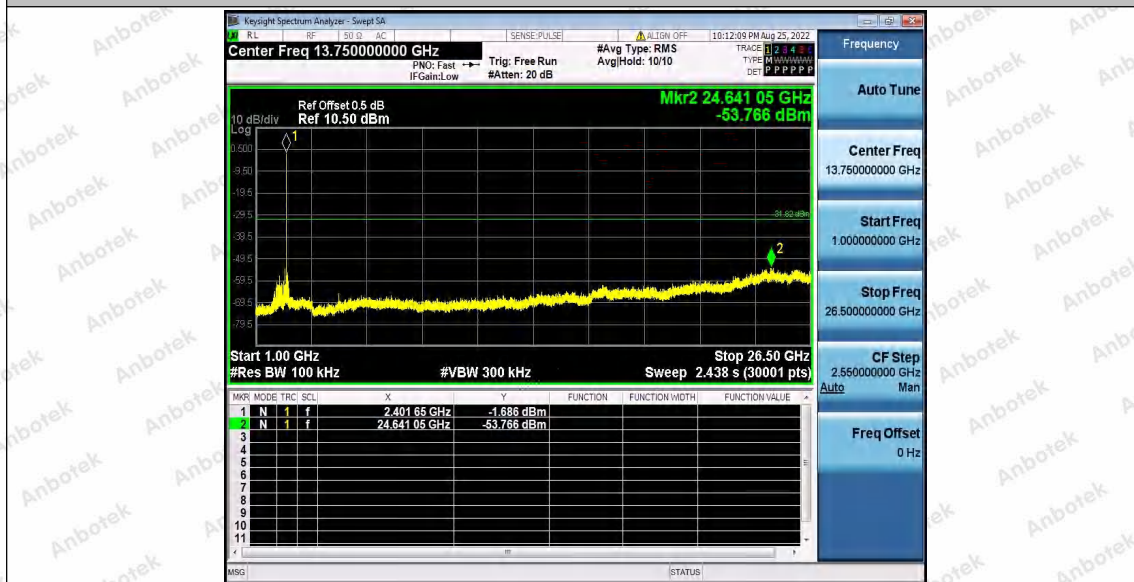


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BLE_2M_Ant1_2402_1000~26500

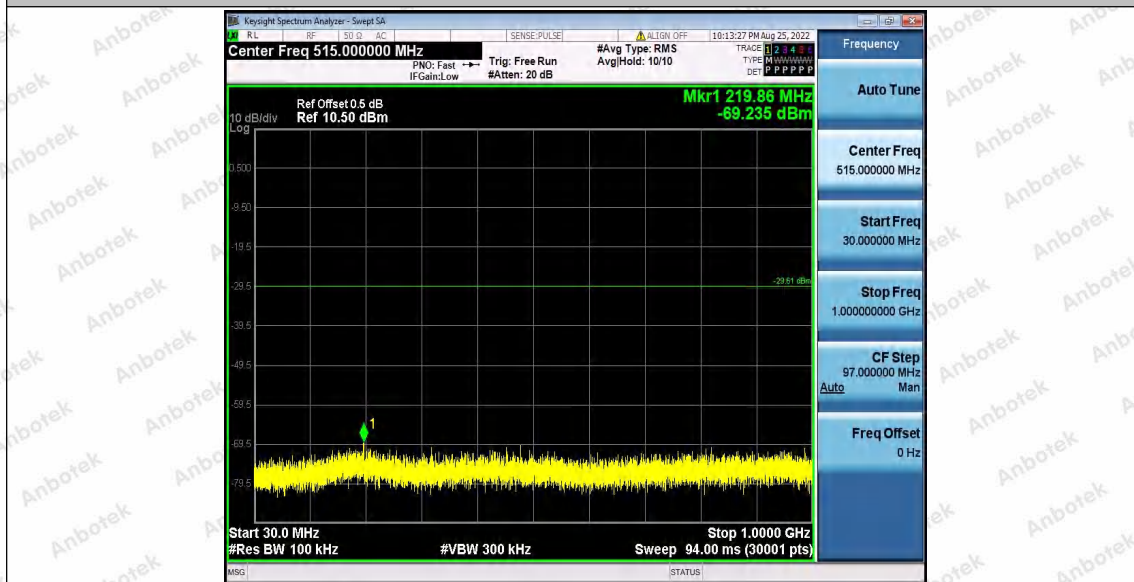


BLE_2M_Ant1_2440_0~Reference





BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500

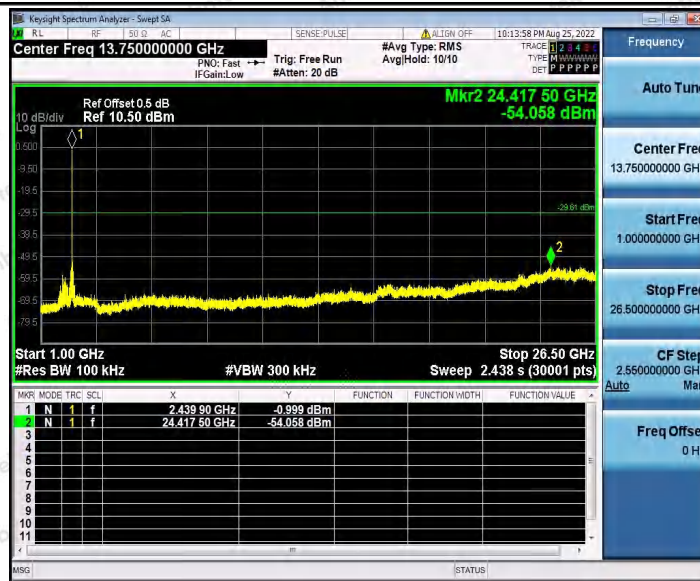
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BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

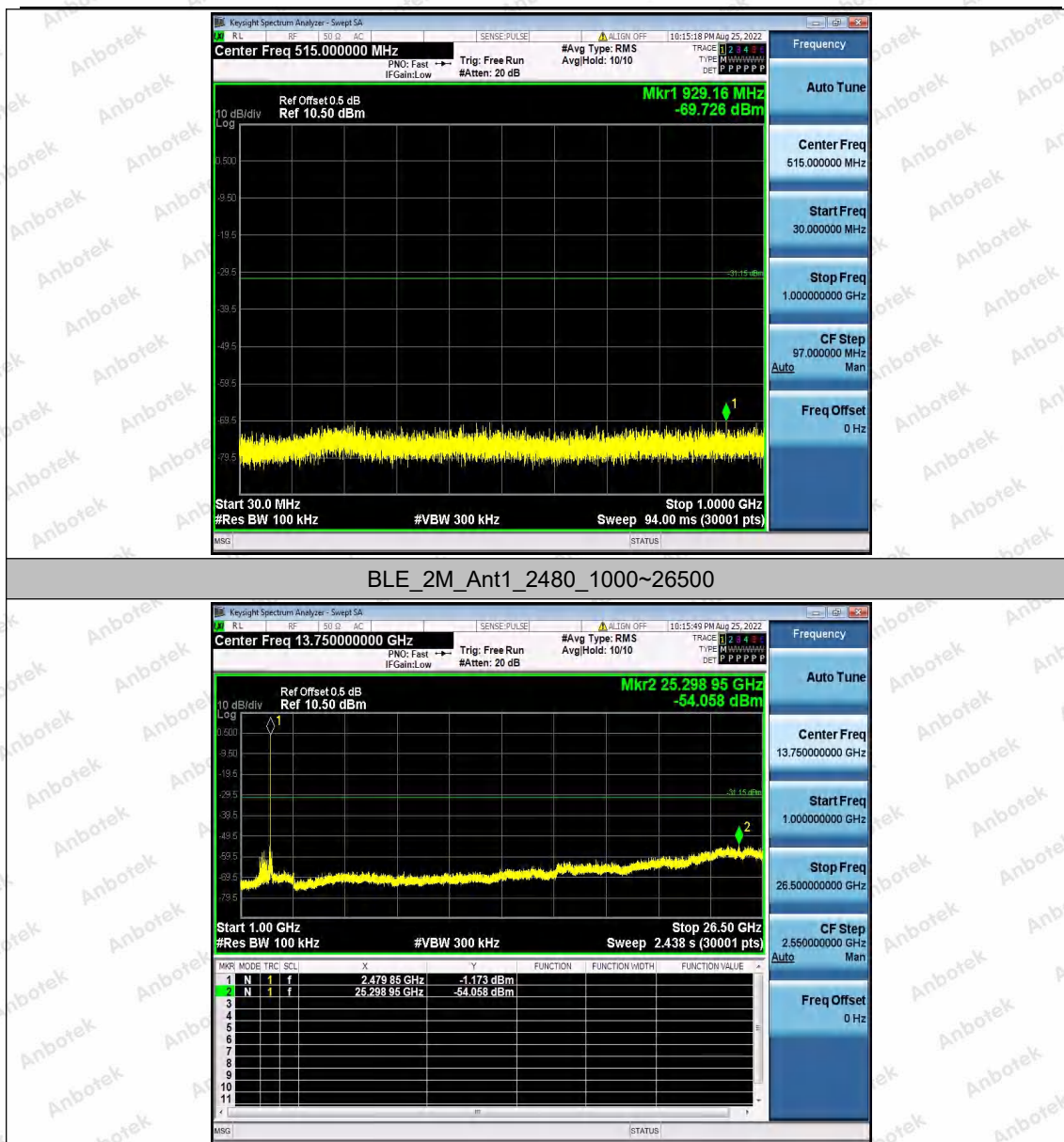
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Appendix G: Duty Cycle

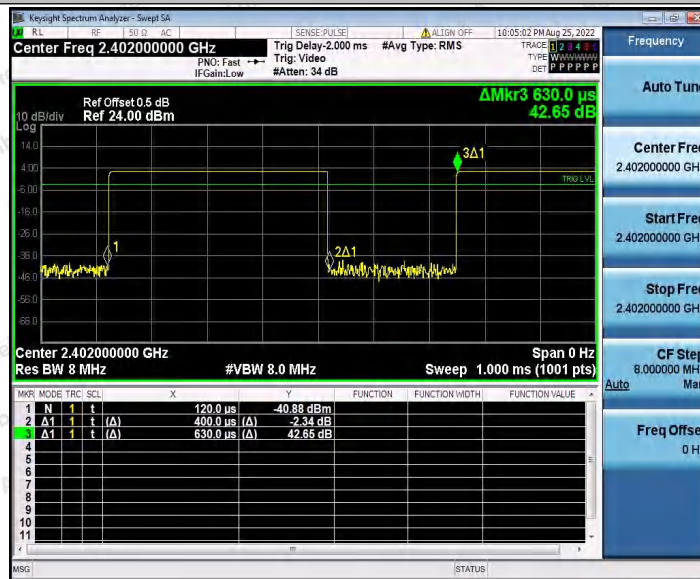
Test Result

Test Mode	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	0.63	63.49	1.97
		2480	0.40	0.63	63.49	1.97
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77

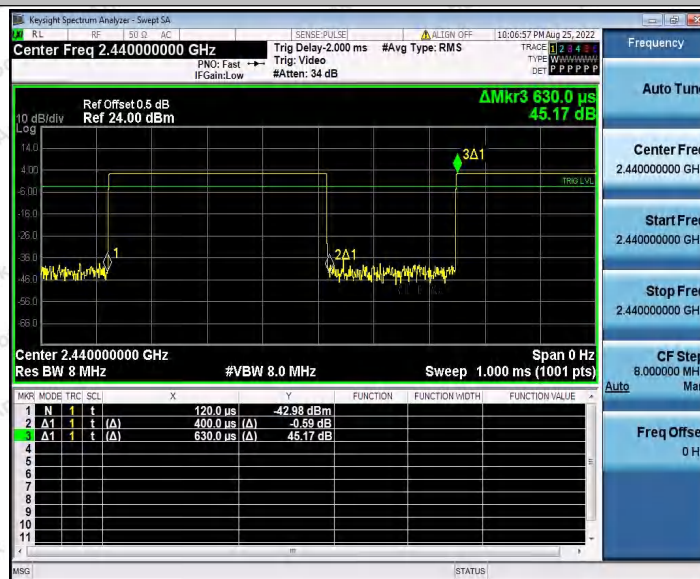


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

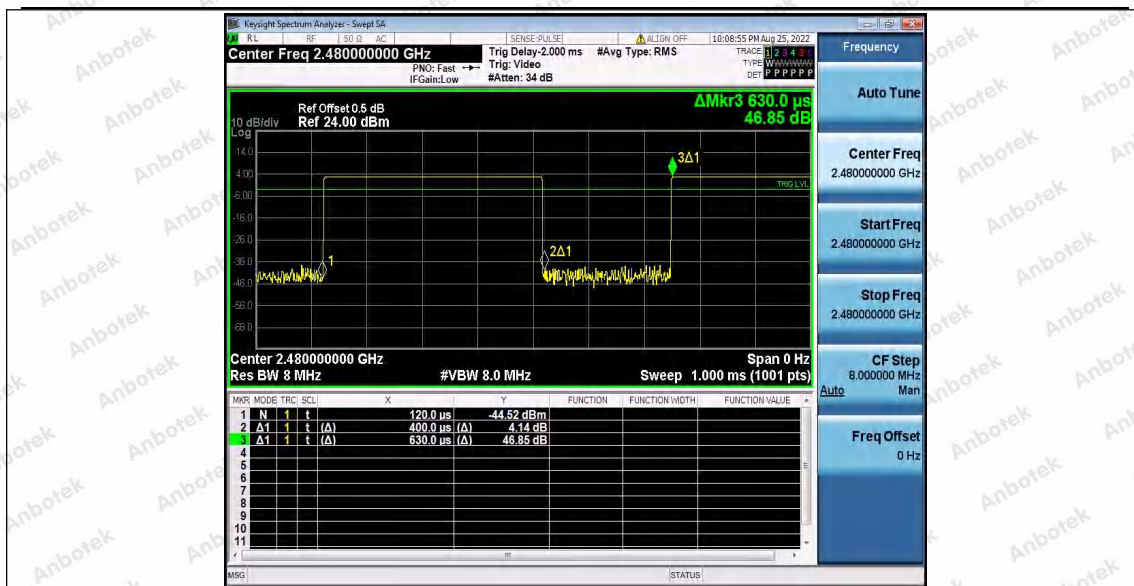
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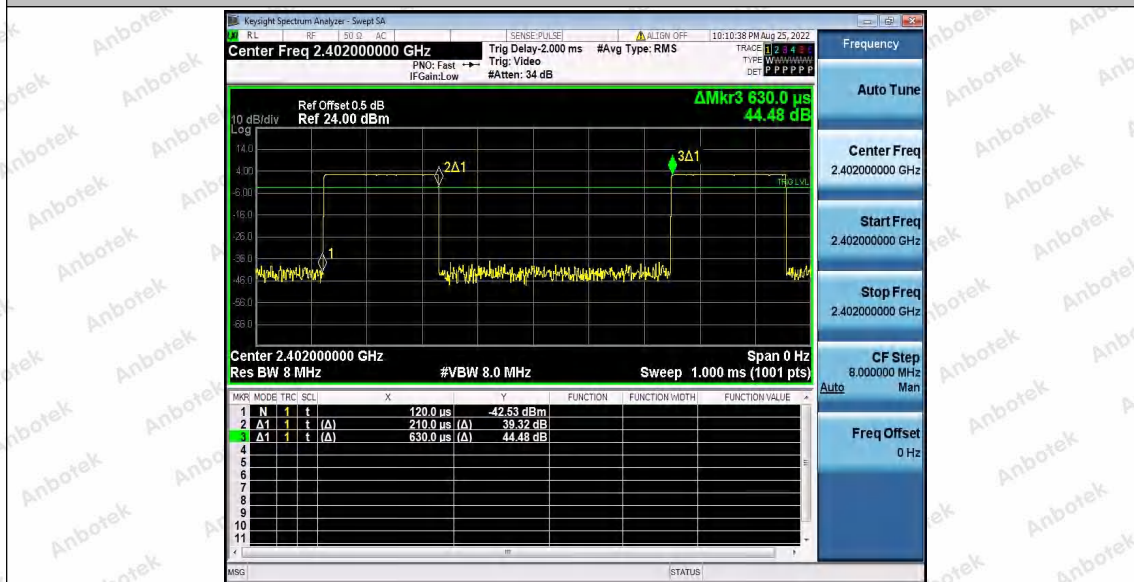


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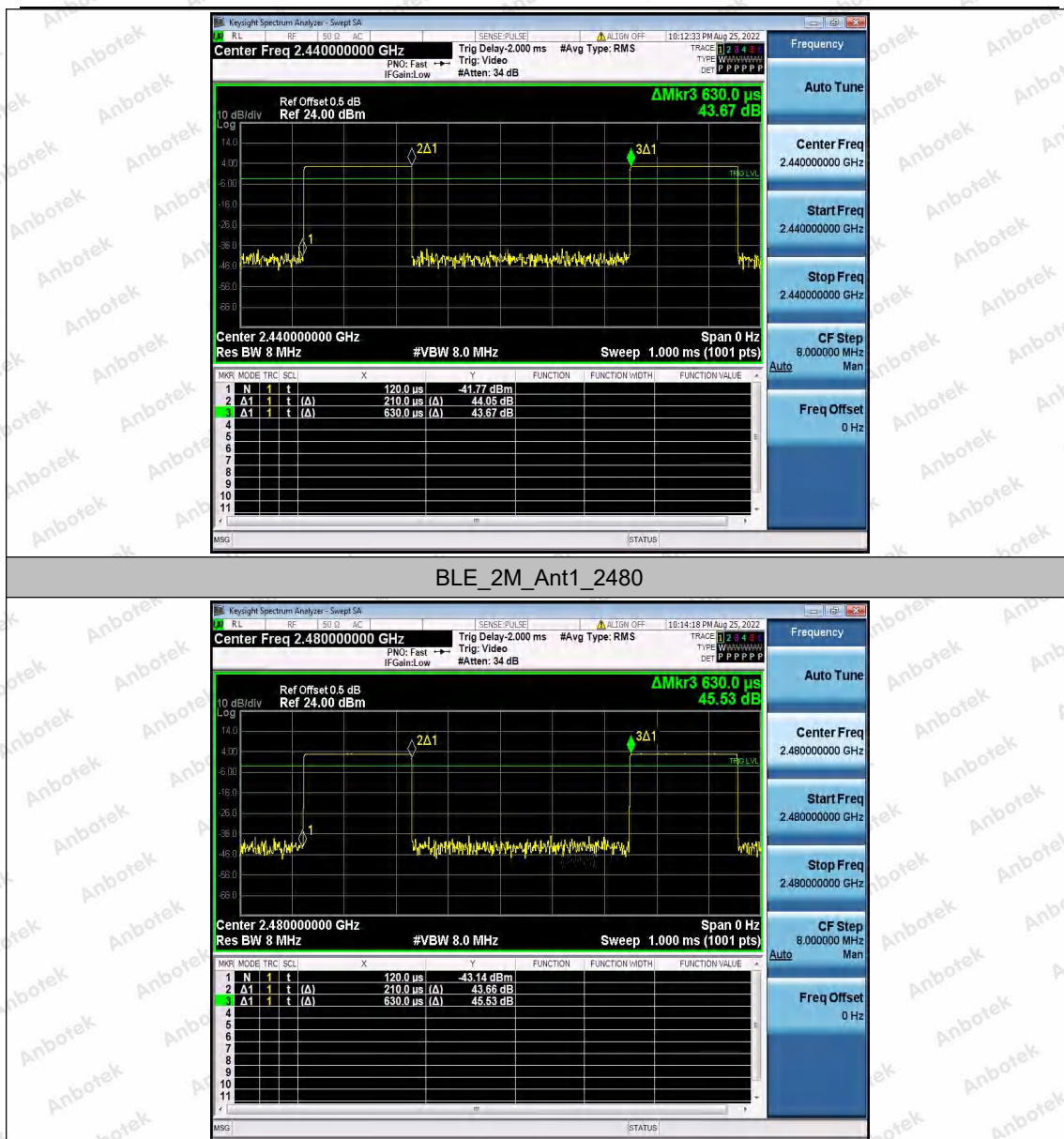


BLE_2M_Ant1_2402



BLE_2M_Ant1_2440





---End---

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