

Appendix Test Data

Report No.:	18220WC20186701	Test Sample No.:	1-2-2
Start Test Date:	2022.8.15	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

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.696	2401.644	2402.340	0.5	PASS
		2440	0.680	2439.664	2440.344	0.5	PASS
		2480	0.676	2479.656	2480.332	0.5	PASS



Test Graphs



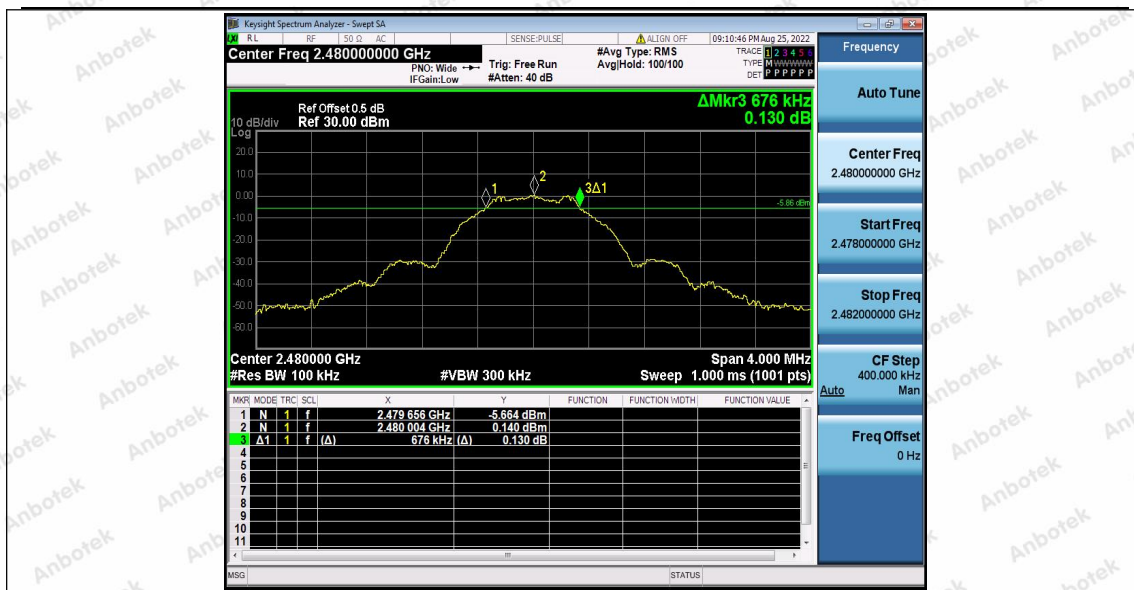
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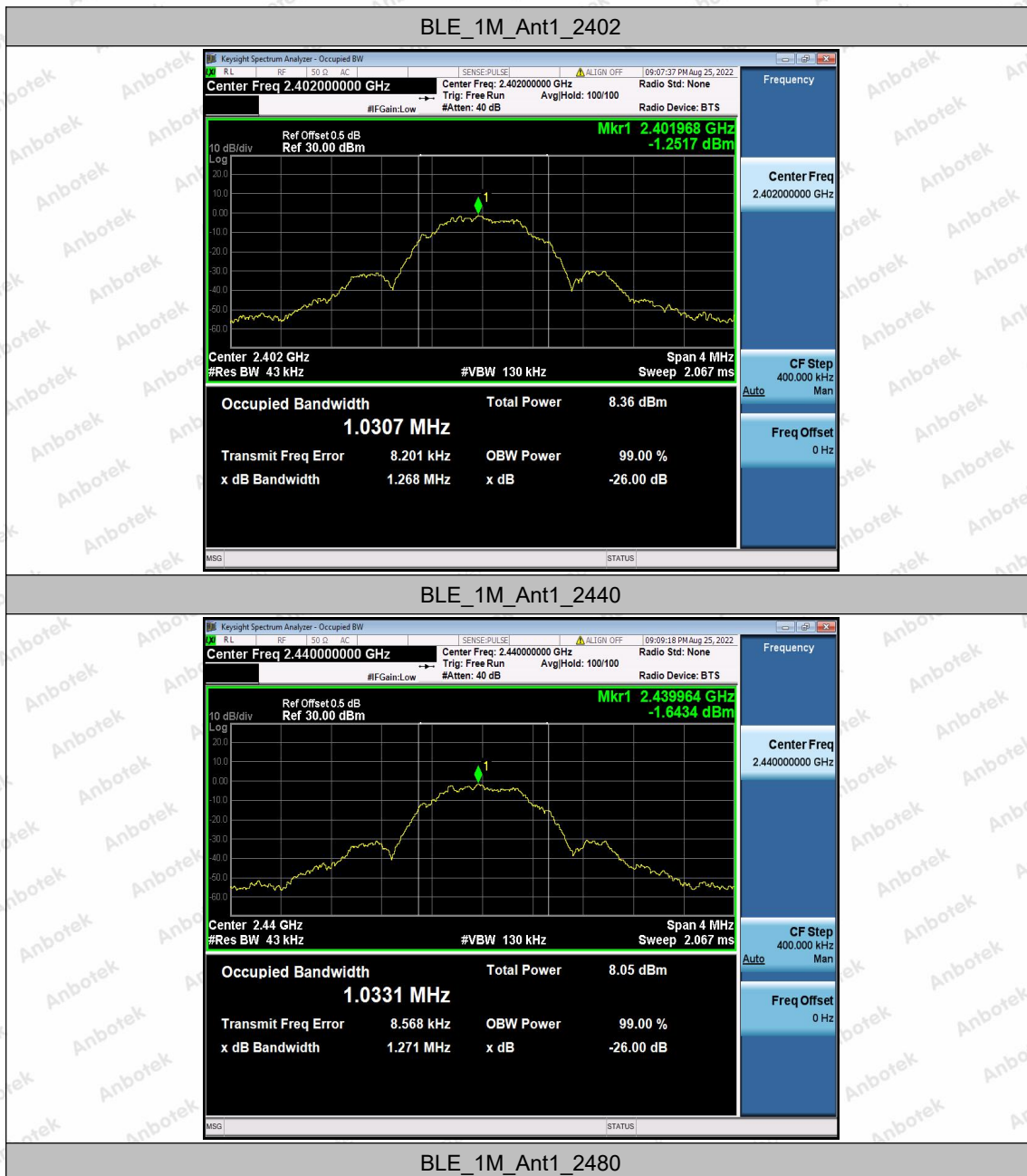
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0307	2401.4929	2402.5236
		2440	1.0331	2439.4920	2440.5251
		2480	1.0282	2479.4943	2480.5225



Test Graphs



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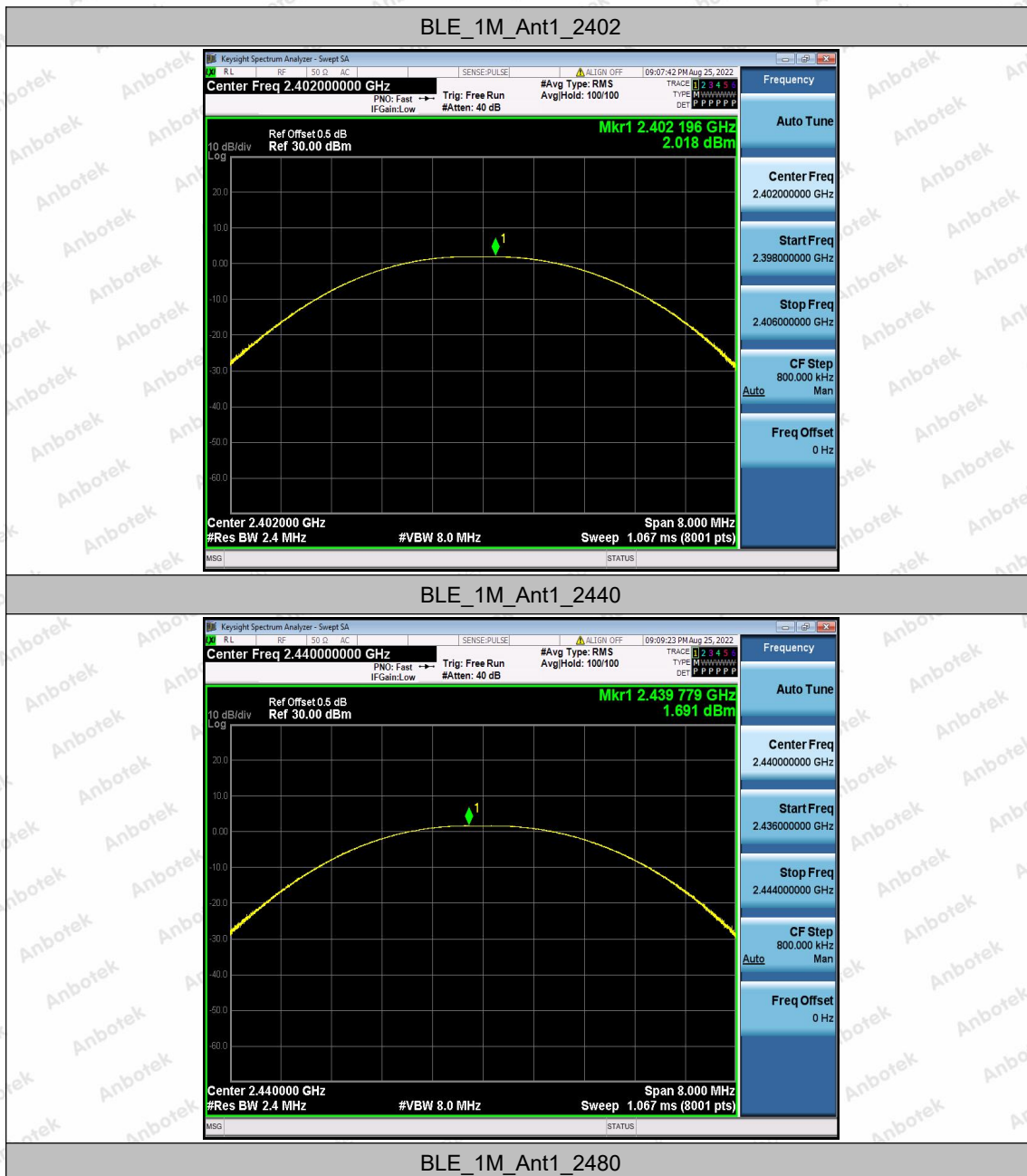
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.02	≤30	PASS
		2440	1.69	≤30	PASS
		2480	1.07	≤30	PASS



Test Graphs Peak



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Appendix D: Maximum power spectral density

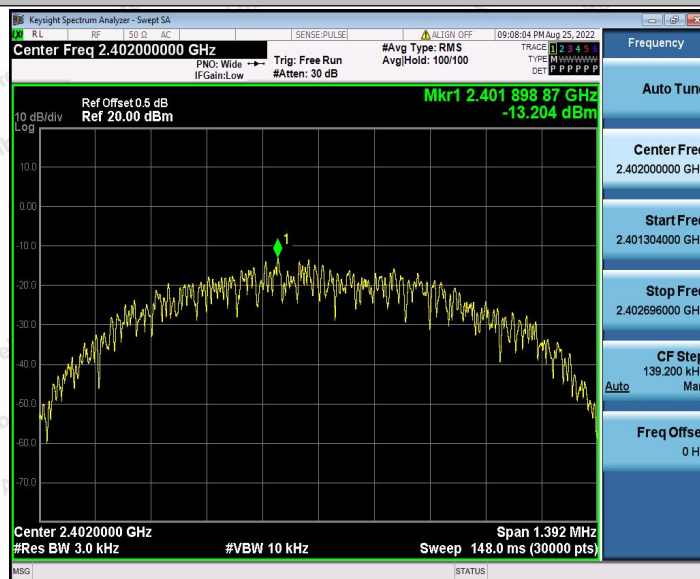
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.2	≤8.00	PASS
		2440	-13.5	≤8.00	PASS
		2480	-14.13	≤8.00	PASS

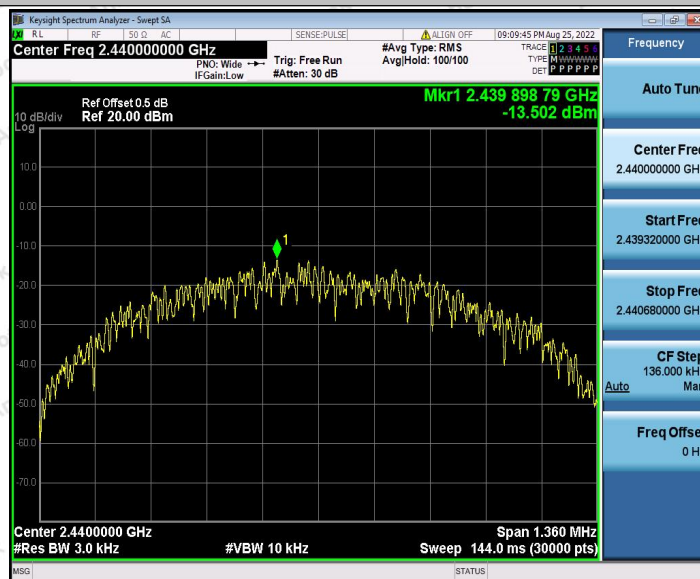


Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

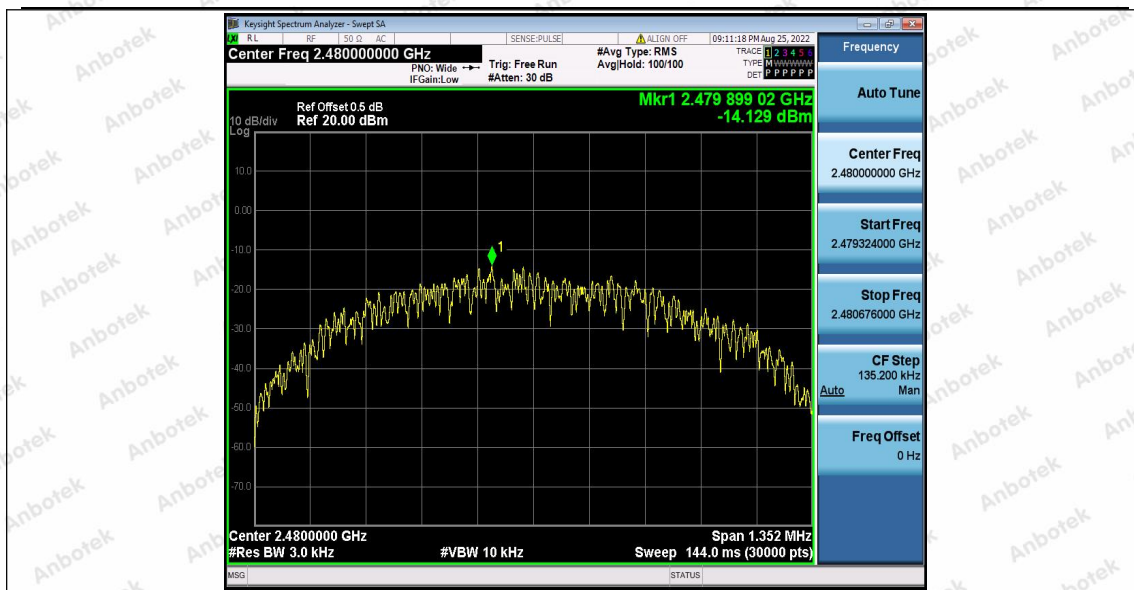
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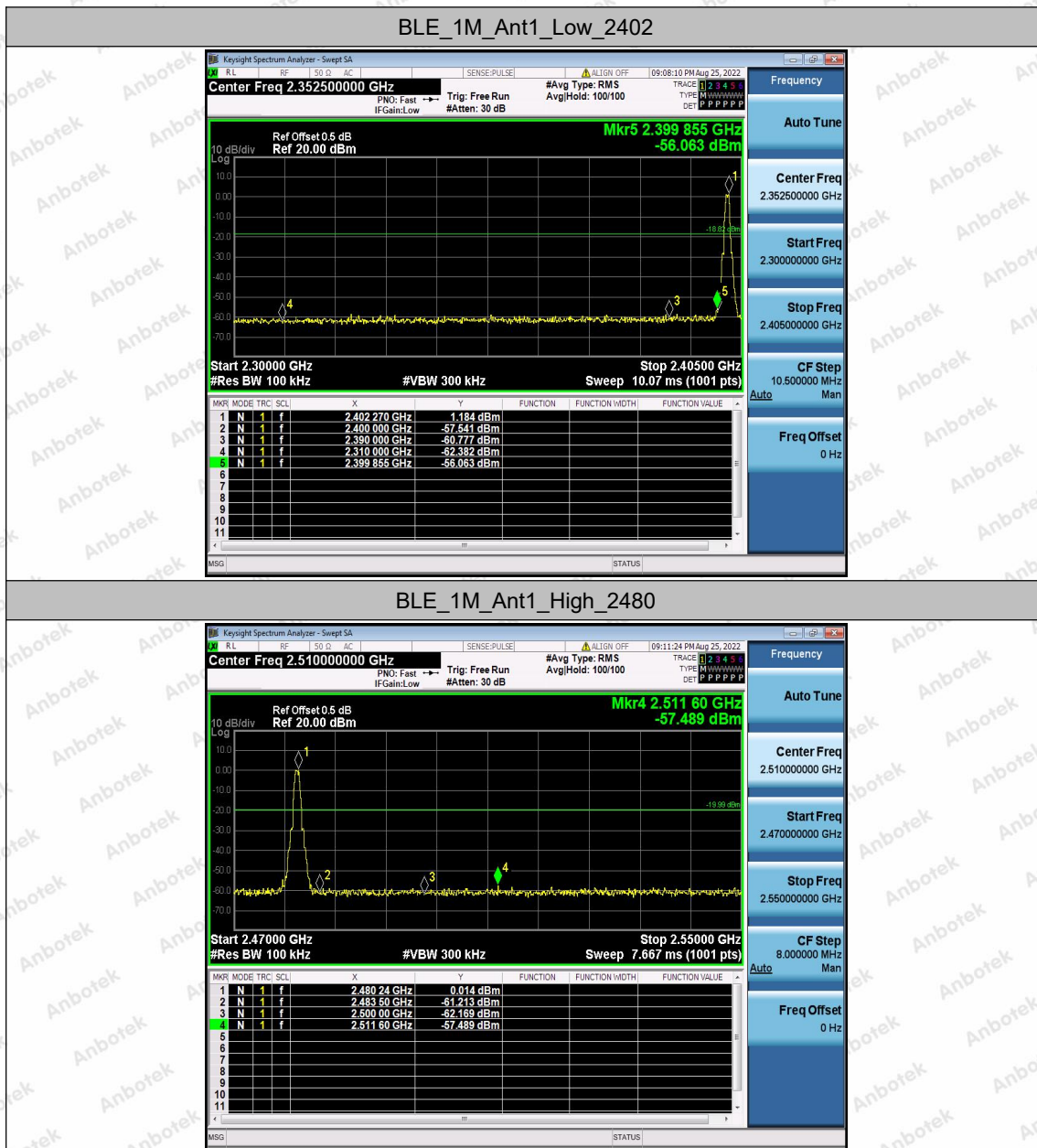
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.18	-56.06	≤-18.82	PASS
		High	2480	0.01	-57.49	≤-19.99	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	0.60	0.60	---	PASS
			30~1000	0.60	-69.29	≤-29.4	PASS
			1000~26500	0.60	-53.99	≤-29.4	PASS
		2440	Reference	0.77	0.77	---	PASS
			30~1000	0.77	-70.16	≤-29.23	PASS
			1000~26500	0.77	-53.19	≤-29.23	PASS
		2480	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-70.46	≤-30.45	PASS
			1000~26500	-0.45	-53.5	≤-30.45	PASS

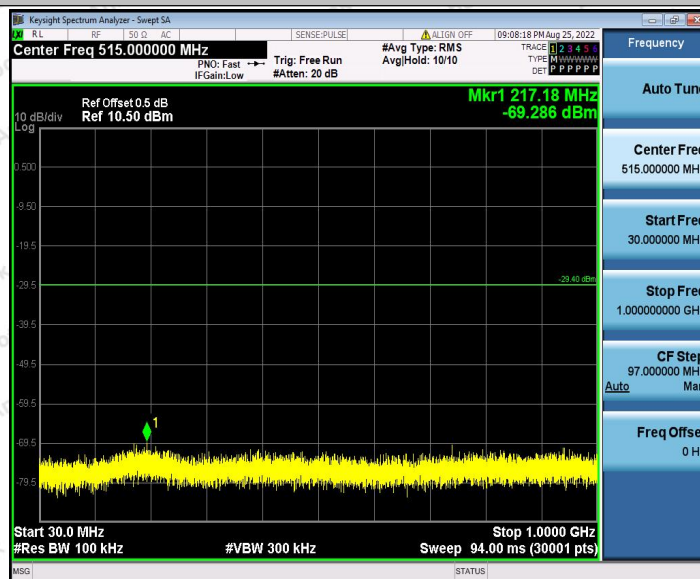


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

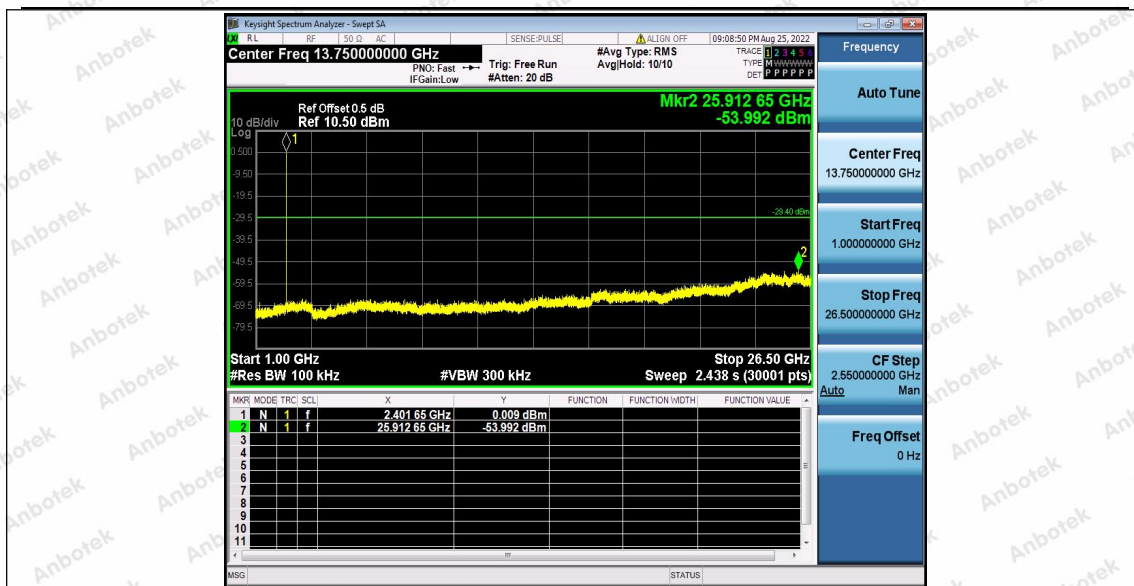
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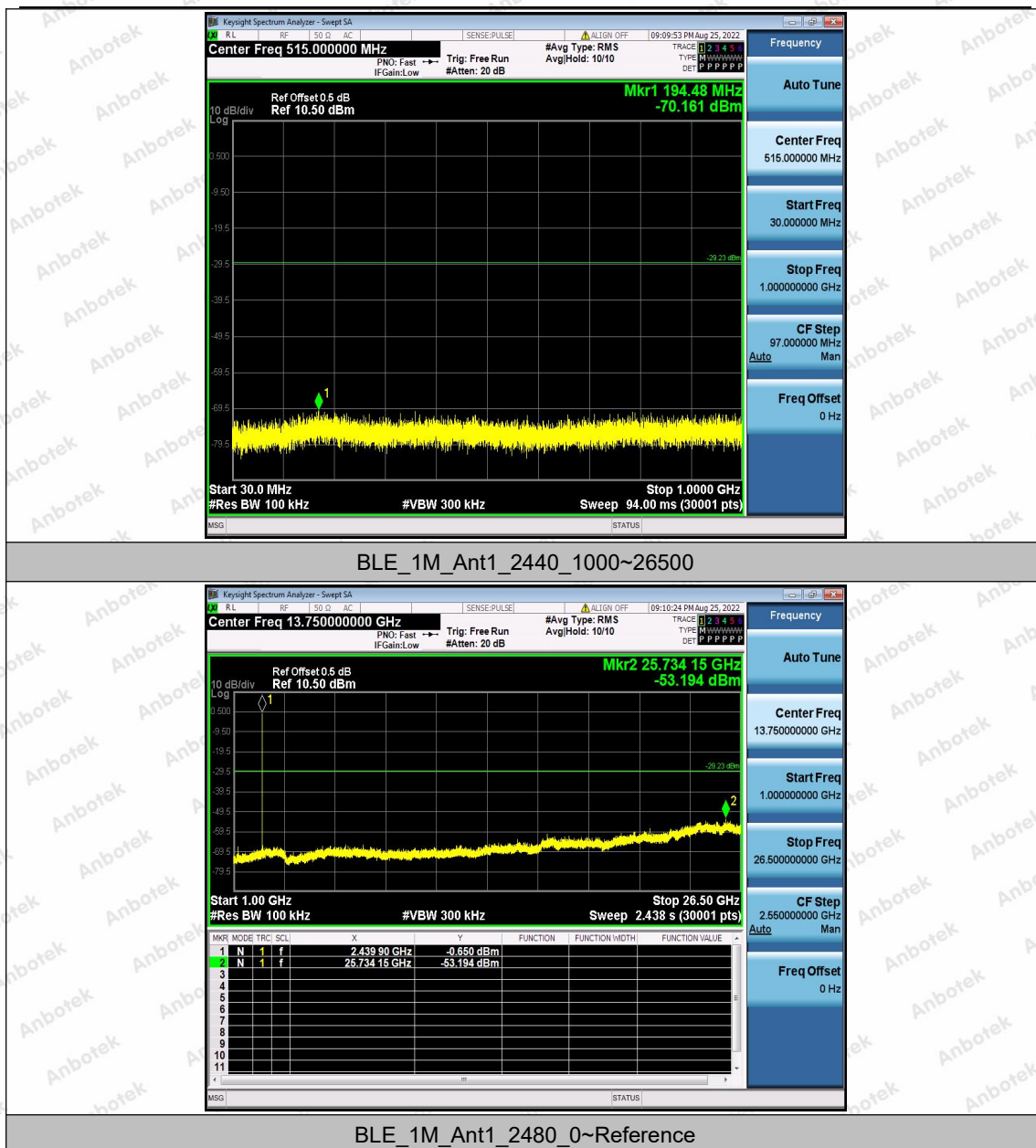


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





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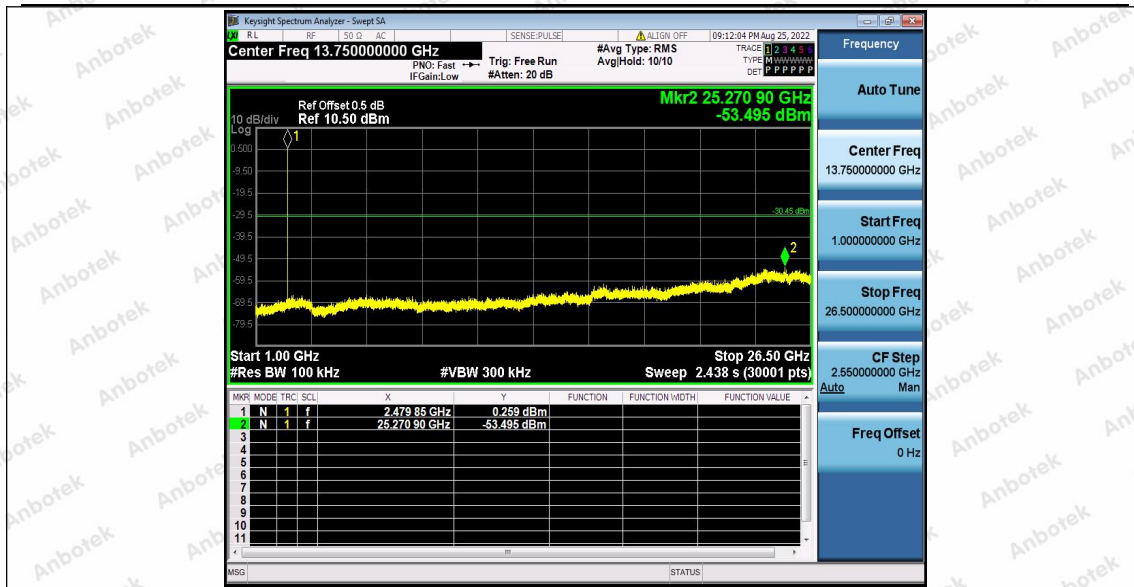
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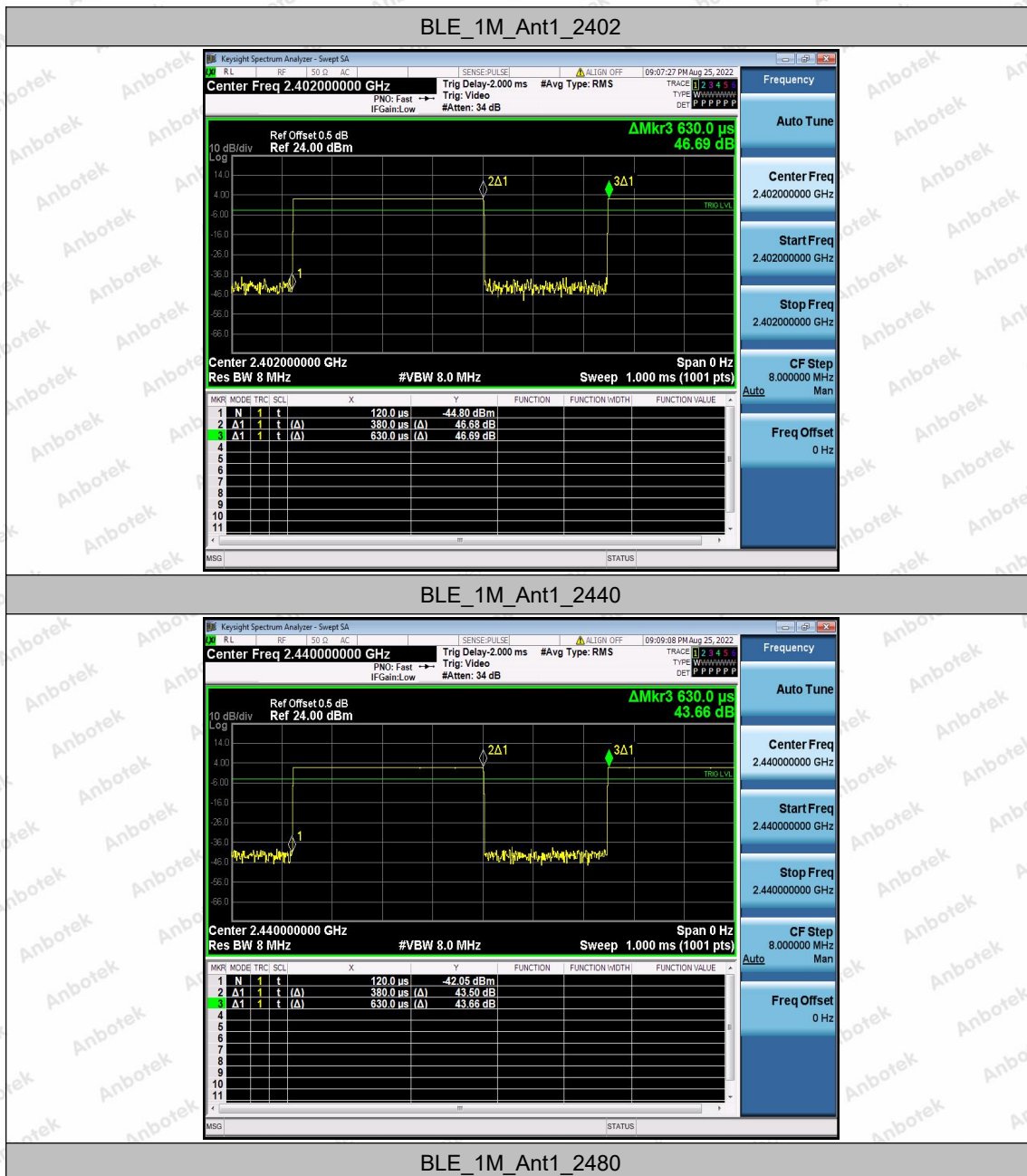
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
		2440	0.38	0.63	60.32	2.20
		2480	0.38	0.63	60.32	2.20



Test Graphs



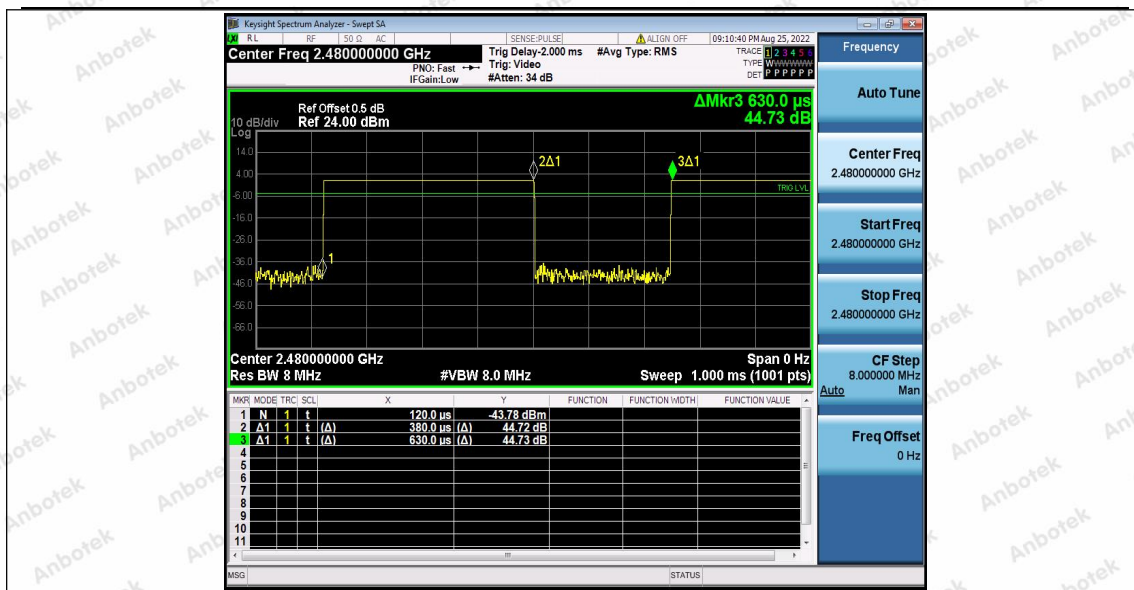
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