

Appendix Test Data

Report No.:	18220WC20240401	Test Sample No.:	1-2-2
Start Test Date:	2022.11.10	Finish Test Date:	2022.11.16
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	26.3C°	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	0.660	2401.660	2402.320	0.5	PASS
		2440	0.672	2439.648	2440.320	0.5	PASS
		2480	0.664	2479.652	2480.316	0.5	PASS





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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	1.0739	2401.4481	2402.5220
		2440	1.0758	2439.4491	2440.5249
		2480	1.1099	2479.4263	2480.5362

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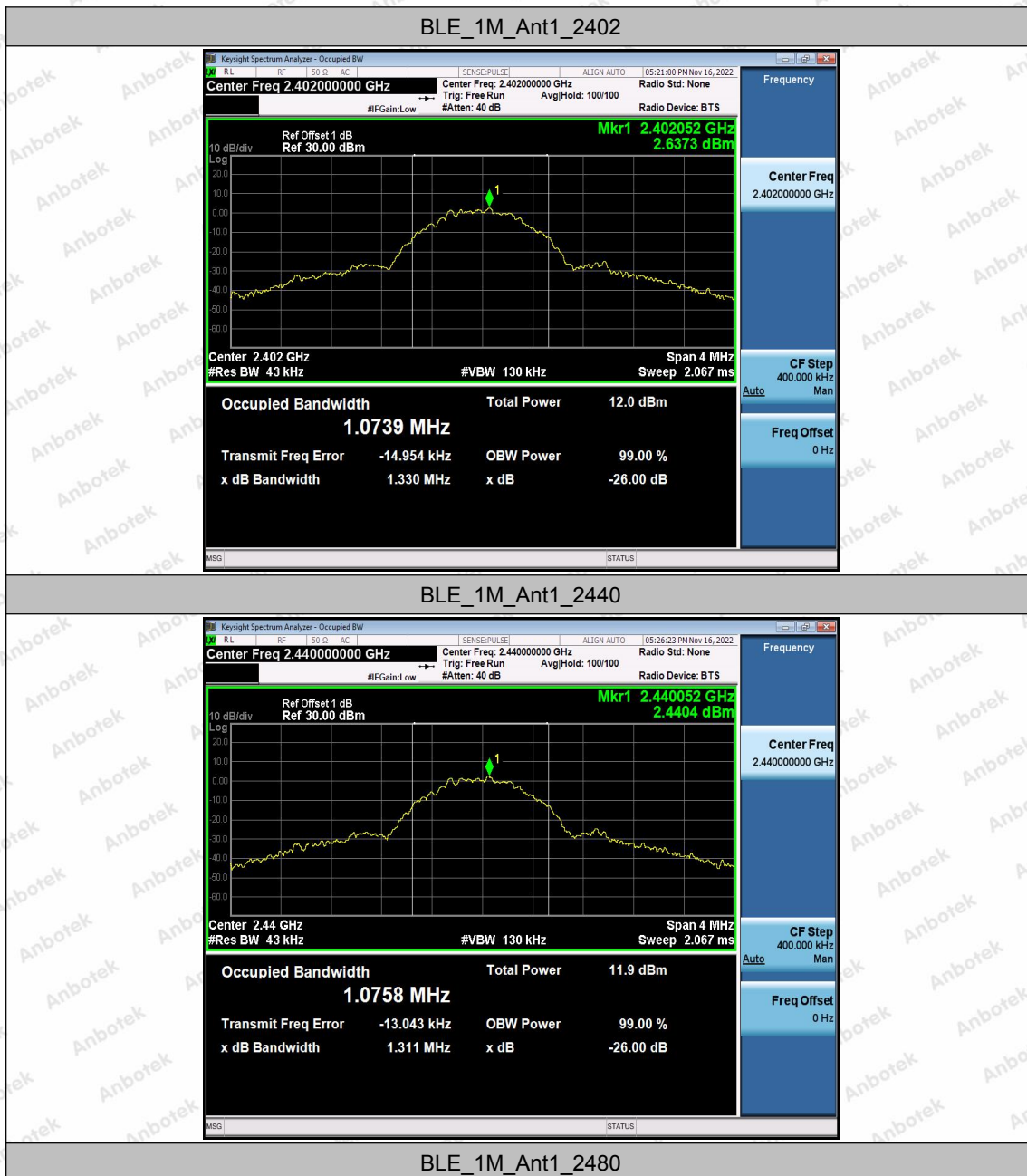
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Test Graphs



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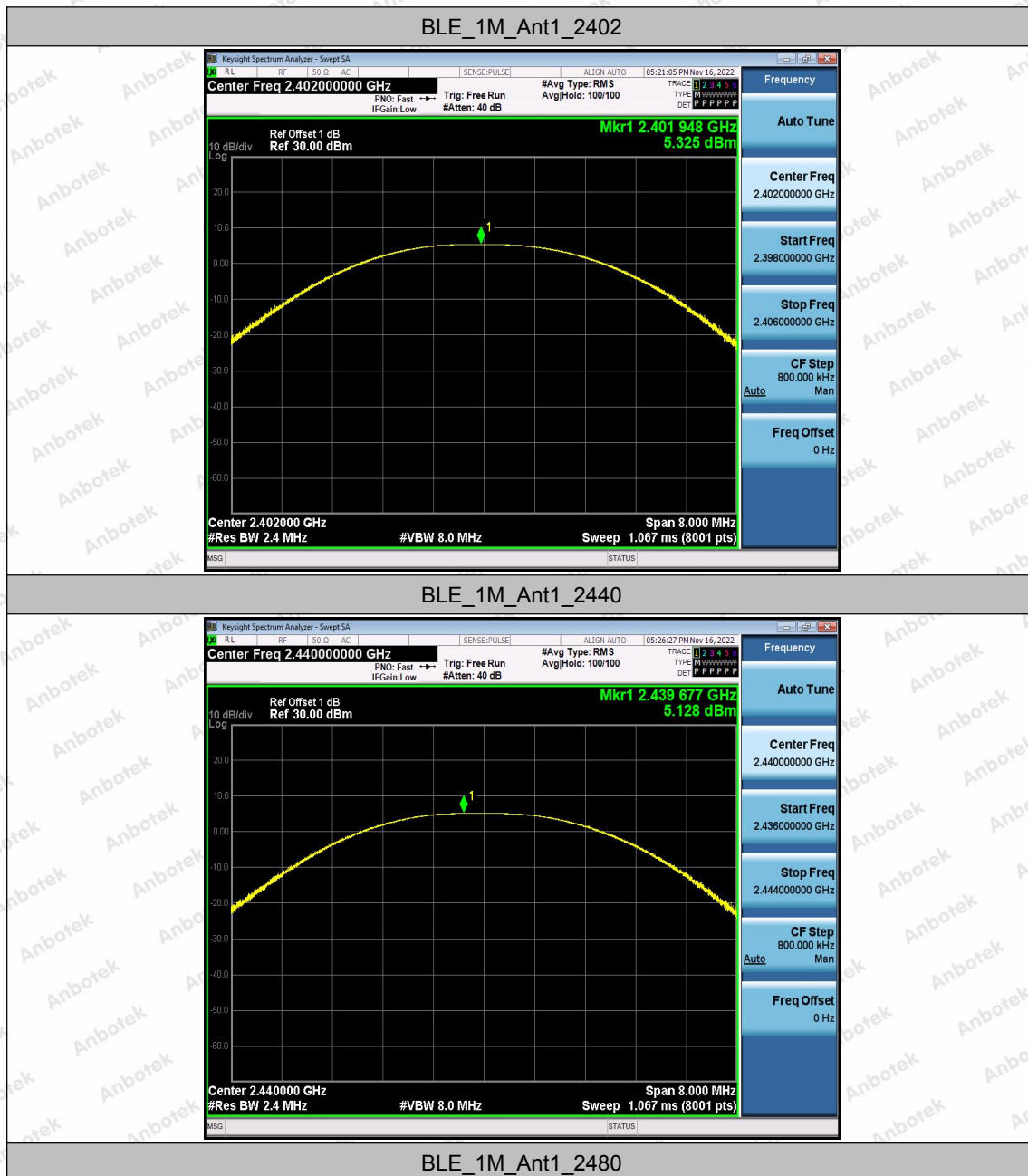
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.33	≤30	PASS
		2440	5.13	≤30	PASS
		2480	5.05	≤30	PASS



Test Graphs Peak



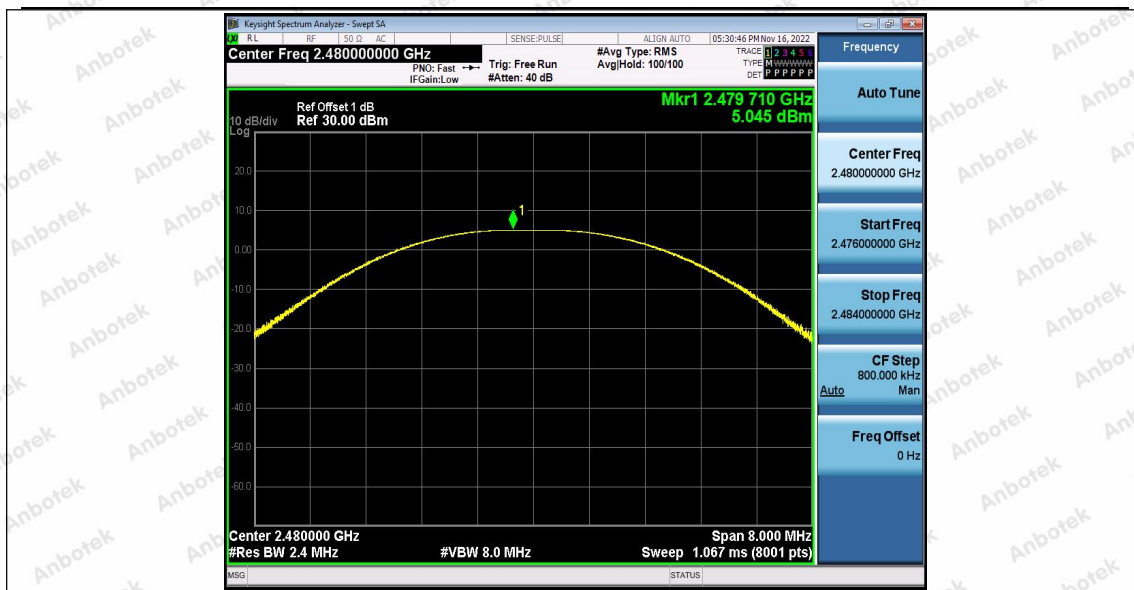
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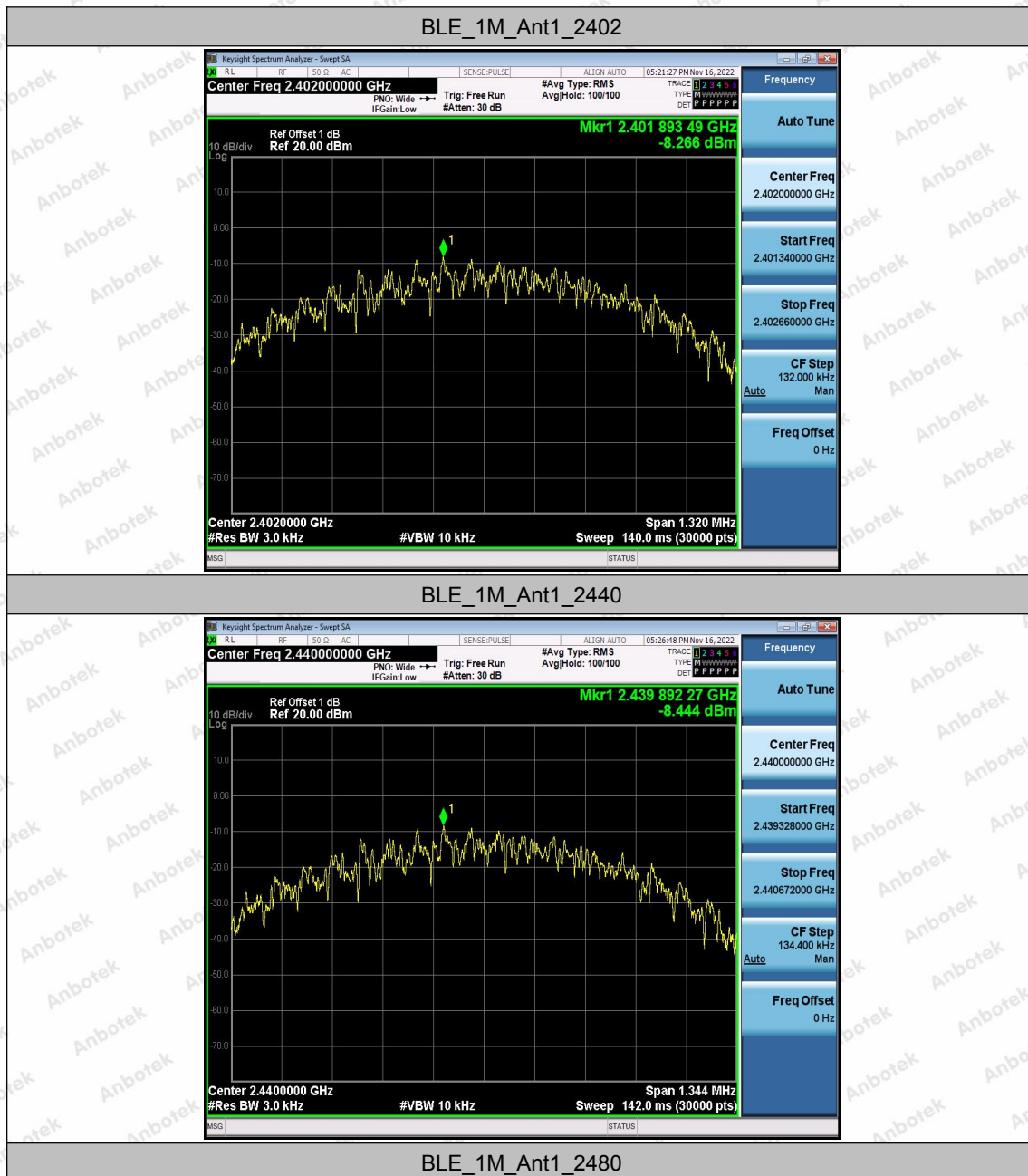
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.27	≤8.00	PASS
		2440	-8.44	≤8.00	PASS
		2480	-8.64	≤8.00	PASS



Test Graphs



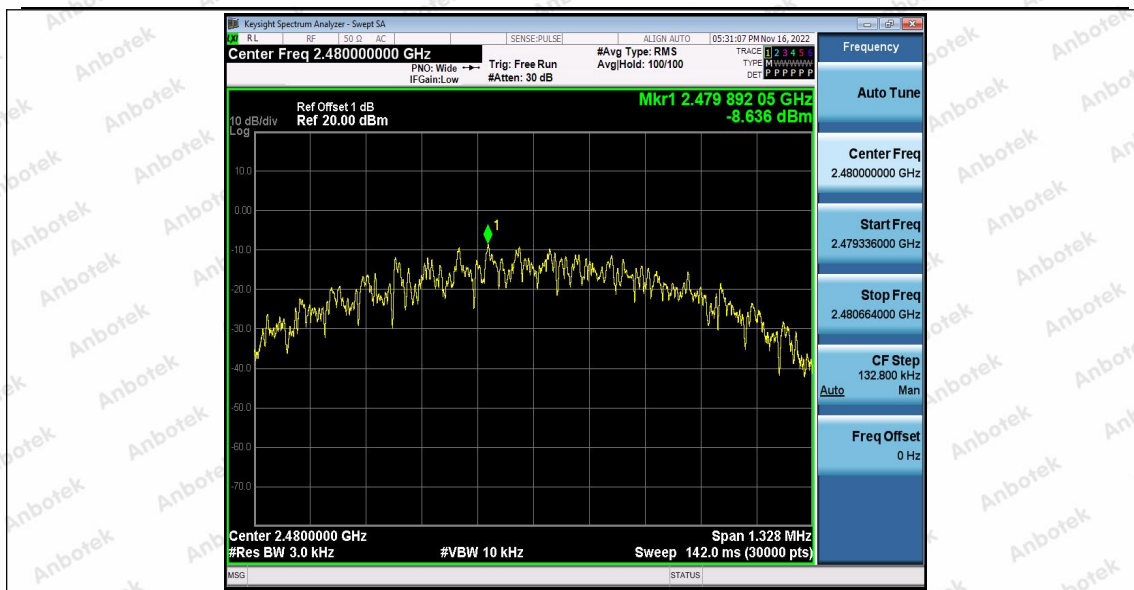
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.35	-38.43	≤-15.66	PASS
		High	2480	4.31	-40.26	≤-15.7	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	4.32	4.32	---	PASS
			30~1000	4.32	-64.27	≤-15.68	PASS
			1000~26500	4.32	-30.98	≤-15.68	PASS
		2440	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-64.14	≤-16.32	PASS
			1000~26500	3.68	-30.57	≤-16.32	PASS
		2480	Reference	3.38	3.38	---	PASS
			30~1000	3.38	-64.72	≤-16.62	PASS
			1000~26500	3.38	-33.04	≤-16.62	PASS

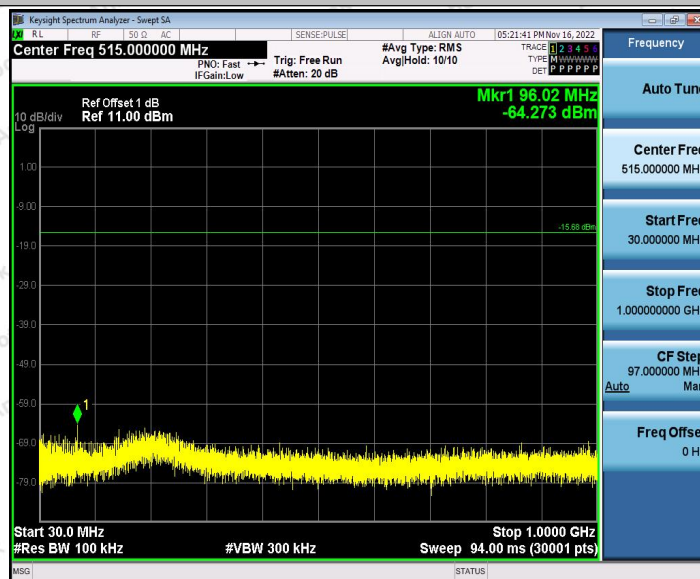


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

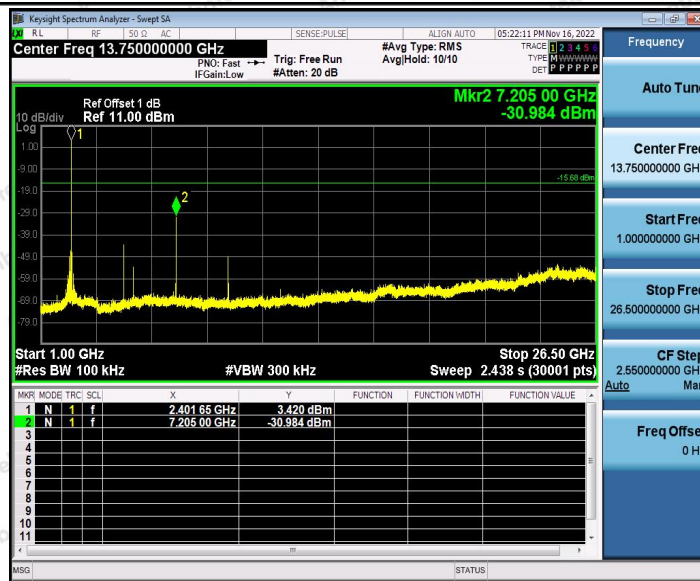
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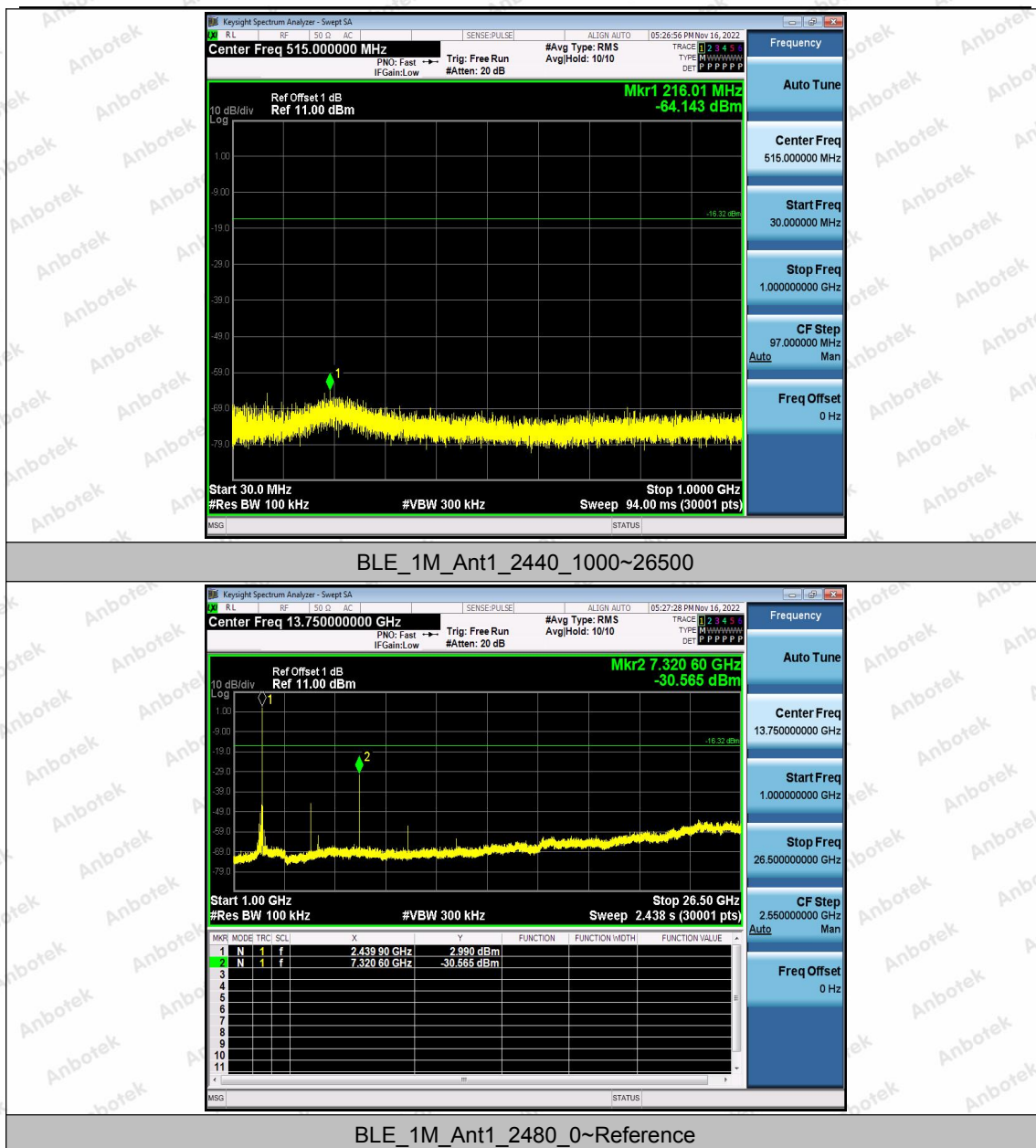


BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000





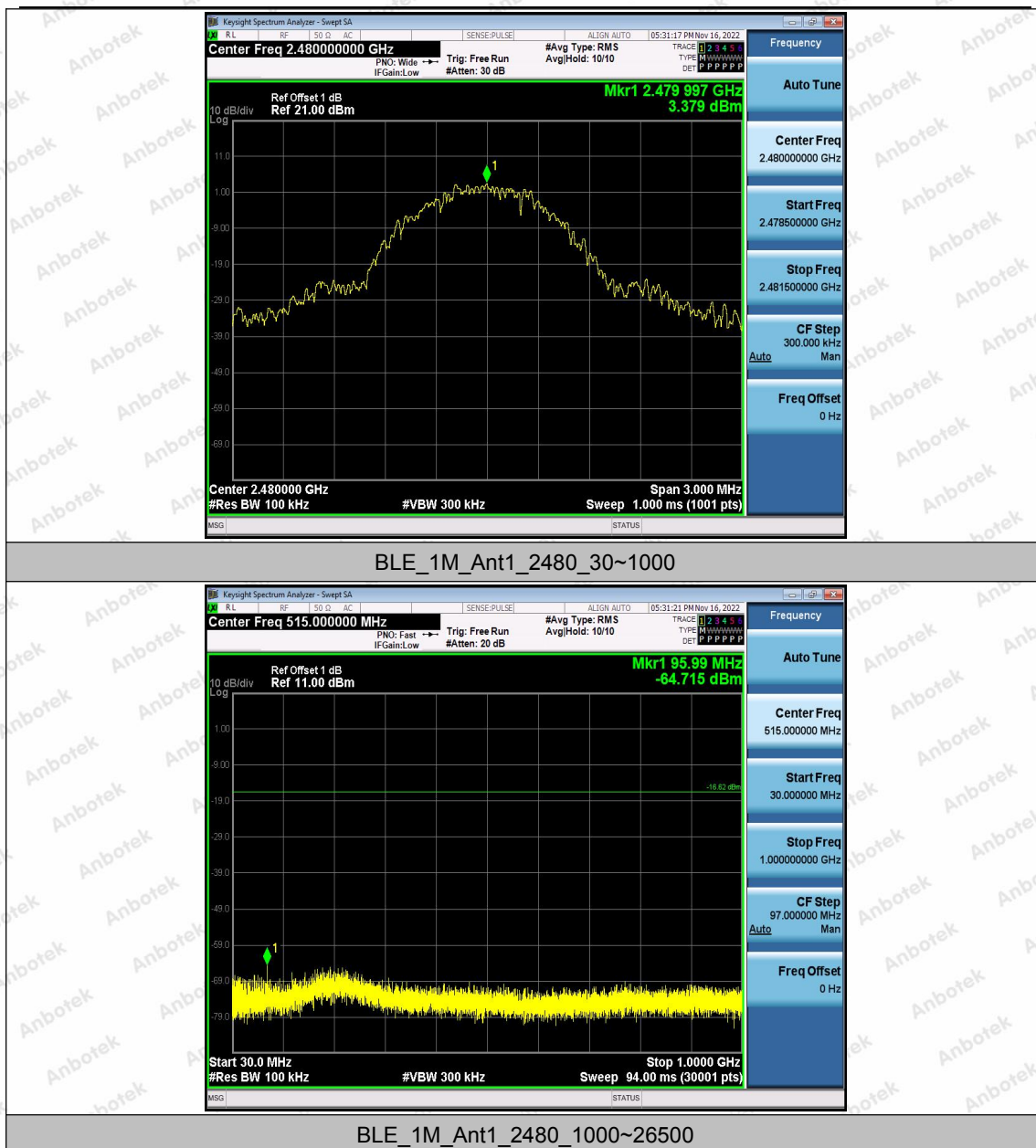
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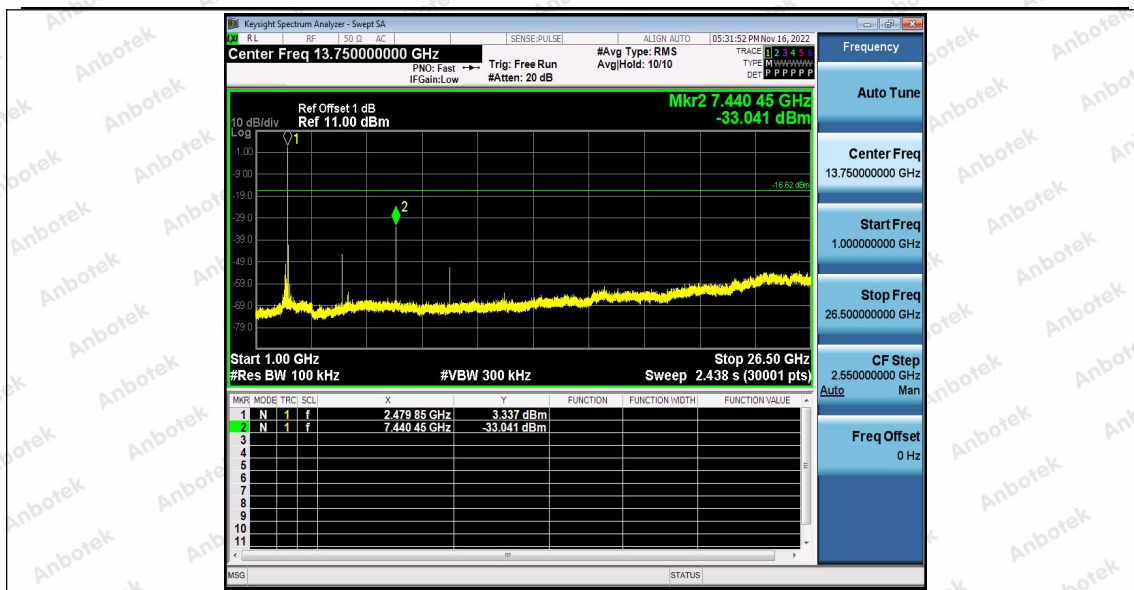
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1	1	100	0
		2440	1	1	100	0
		2480	1	1	100	0



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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