

Appendix Test Data

Report No:	18220WC20200301	Test Sample NO:	1-2-2
Start Test Date:	2022.8.29	Finish Test Date:	2022.9.5
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°C	Relative Humidity:	48%
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	0.684	2401.644	2402.328	0.5	PASS
		2440	0.680	2439.648	2440.328	0.5	PASS
		2480	0.672	2479.636	2480.308	0.5	PASS



Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

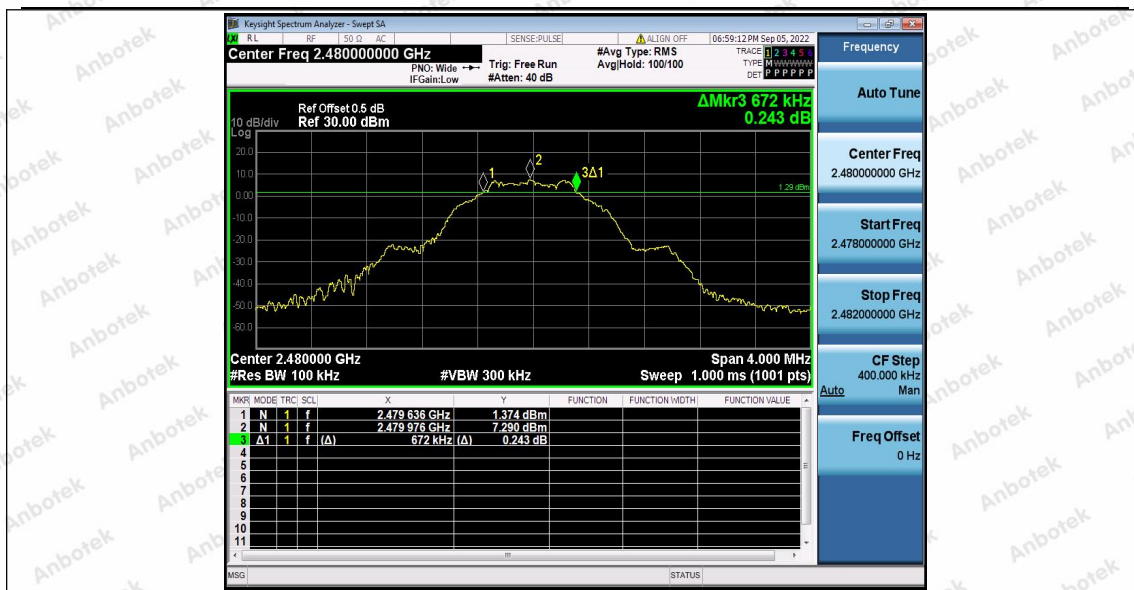
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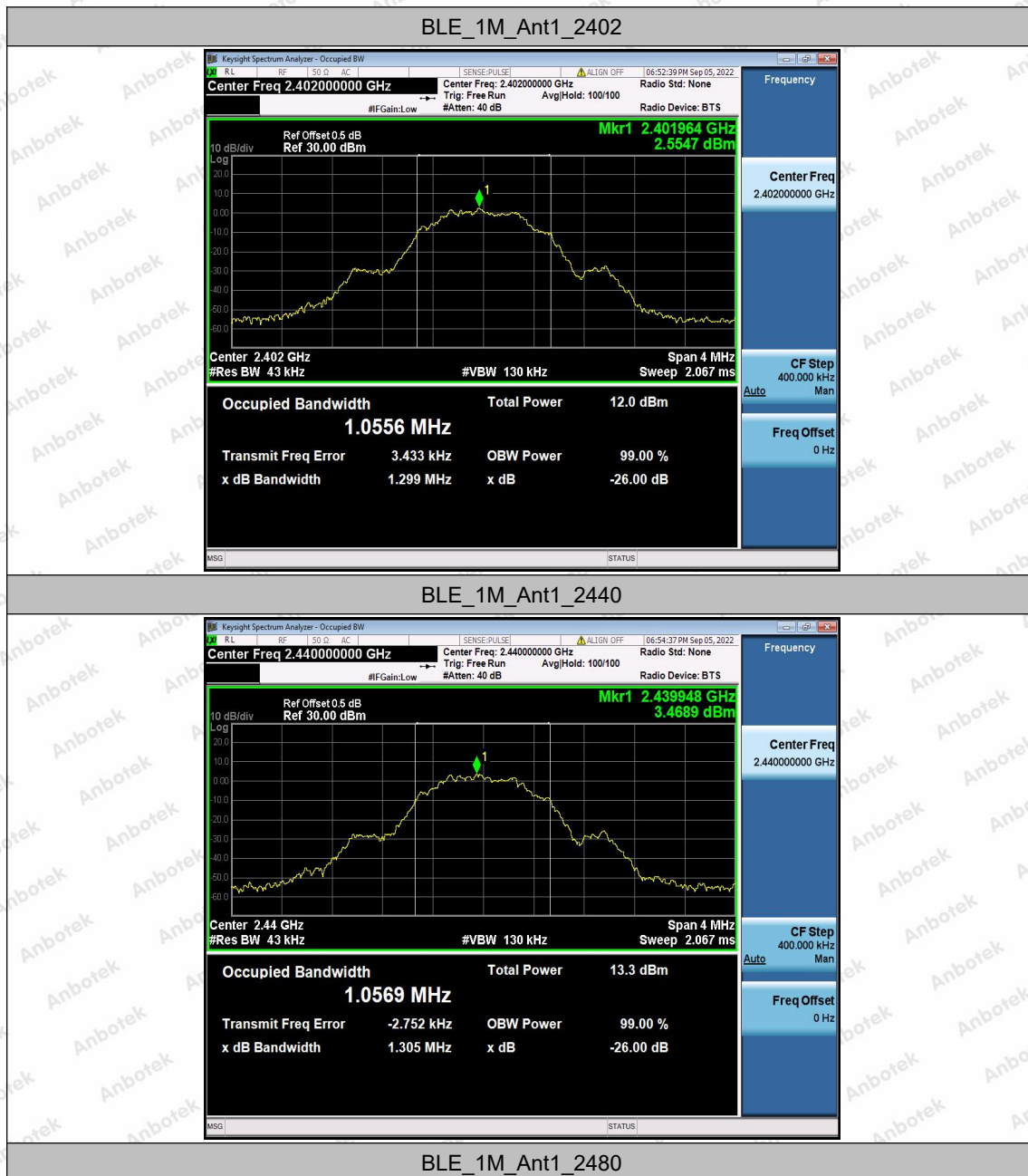
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0556	2401.4756	2402.5312
		2440	1.0569	2439.4688	2440.5257
		2480	1.0590	2479.4595	2480.5185



Test Graphs



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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	6.19	≤30	PASS
		2440	7.4	≤30	PASS
		2480	8.44	≤30	PASS



Test Graphs Peak



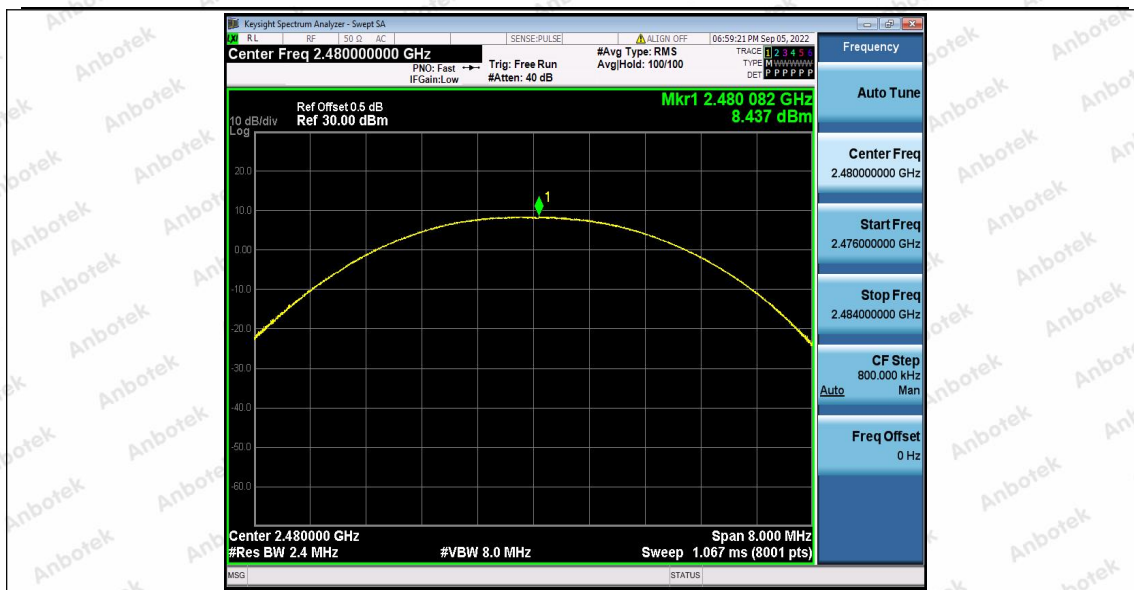
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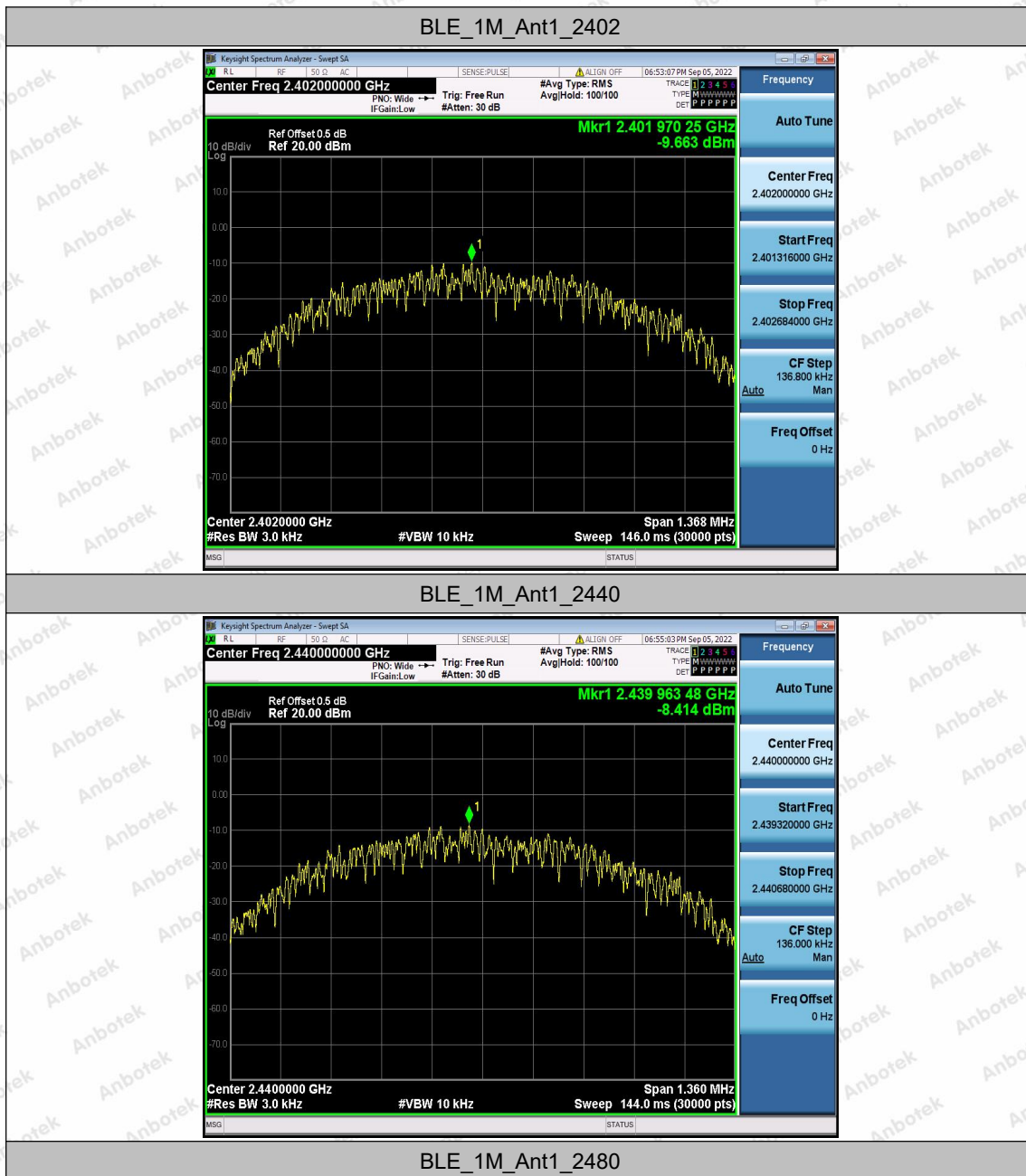
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.66	≤8.00	PASS
		2440	-8.41	≤8.00	PASS
		2480	-7.31	≤8.00	PASS



Test Graphs



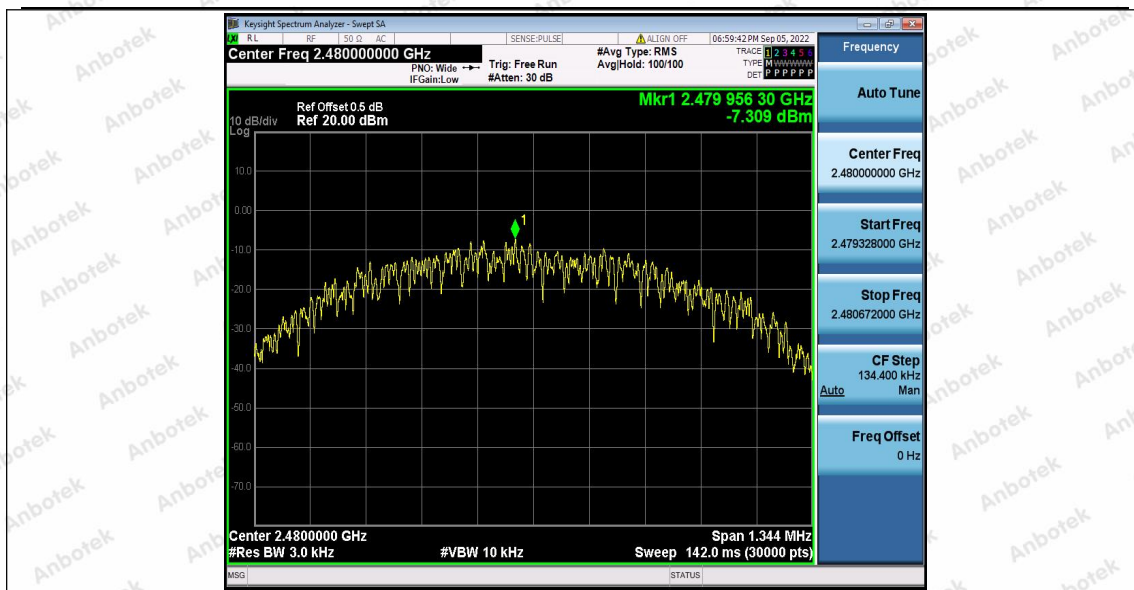
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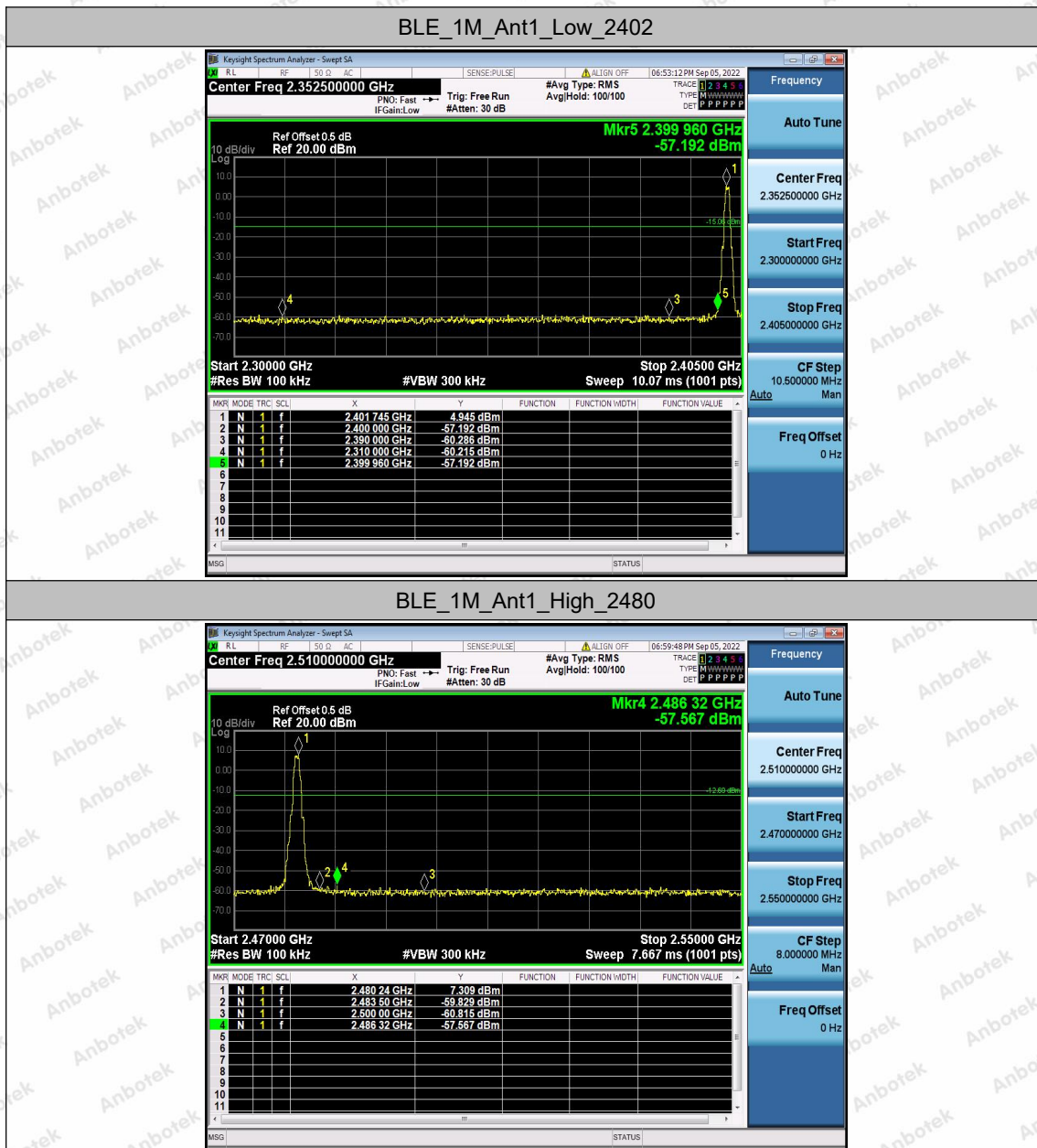
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.95	-57.19	≤-15.06	PASS
		High	2480	7.31	-57.57	≤-12.69	PASS



Test Graphs



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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	4.41	4.41	---	PASS
			30~1000	4.41	-70.01	≤-25.59	PASS
			1000~26500	4.41	-47.8	≤-25.59	PASS
		2440	Reference	5.61	5.61	---	PASS
			30~1000	5.61	-70.23	≤-24.39	PASS
			1000~26500	5.61	-49.83	≤-24.39	PASS
		2480	Reference	7.26	7.26	---	PASS
			30~1000	7.26	-69.78	≤-22.74	PASS
			1000~26500	7.26	-52.3	≤-22.74	PASS

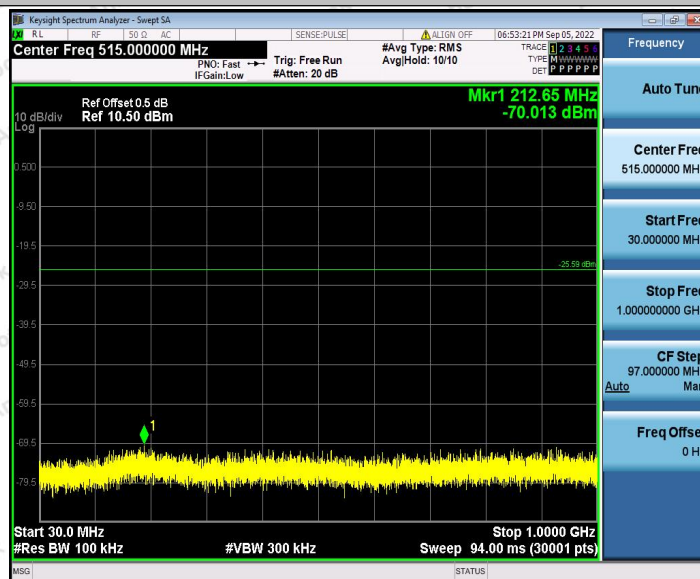


Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

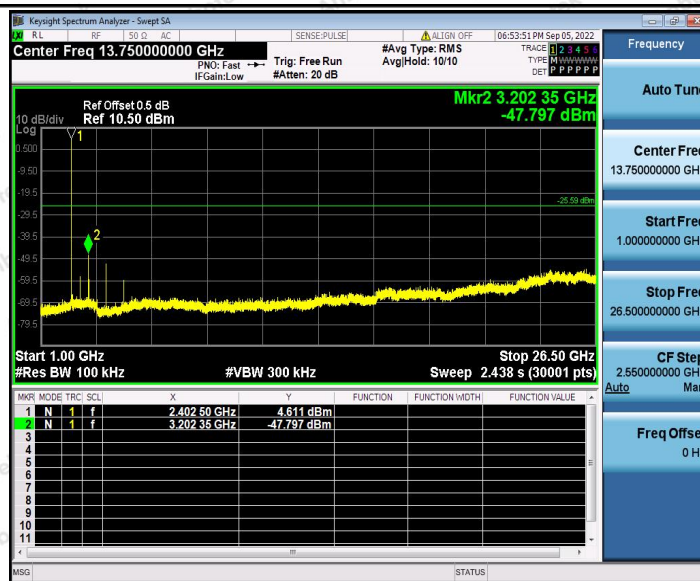
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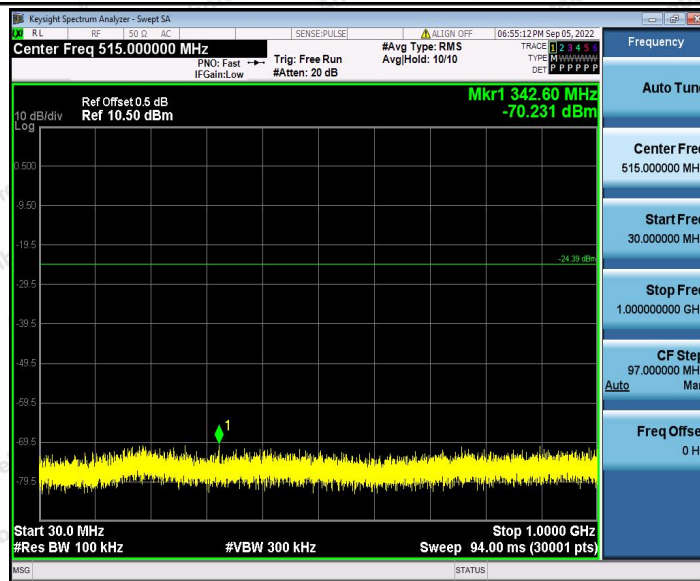


BLE_1M_Ant1_2440_0~Reference

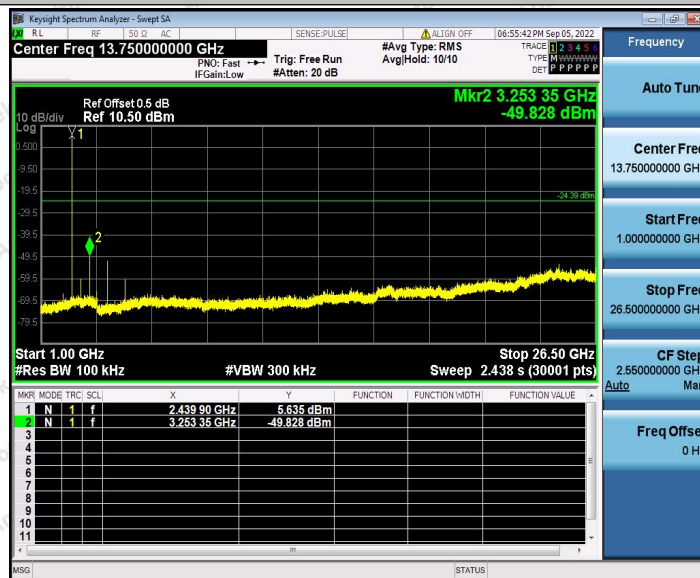


BLE_1M_Ant1_2440_30~1000



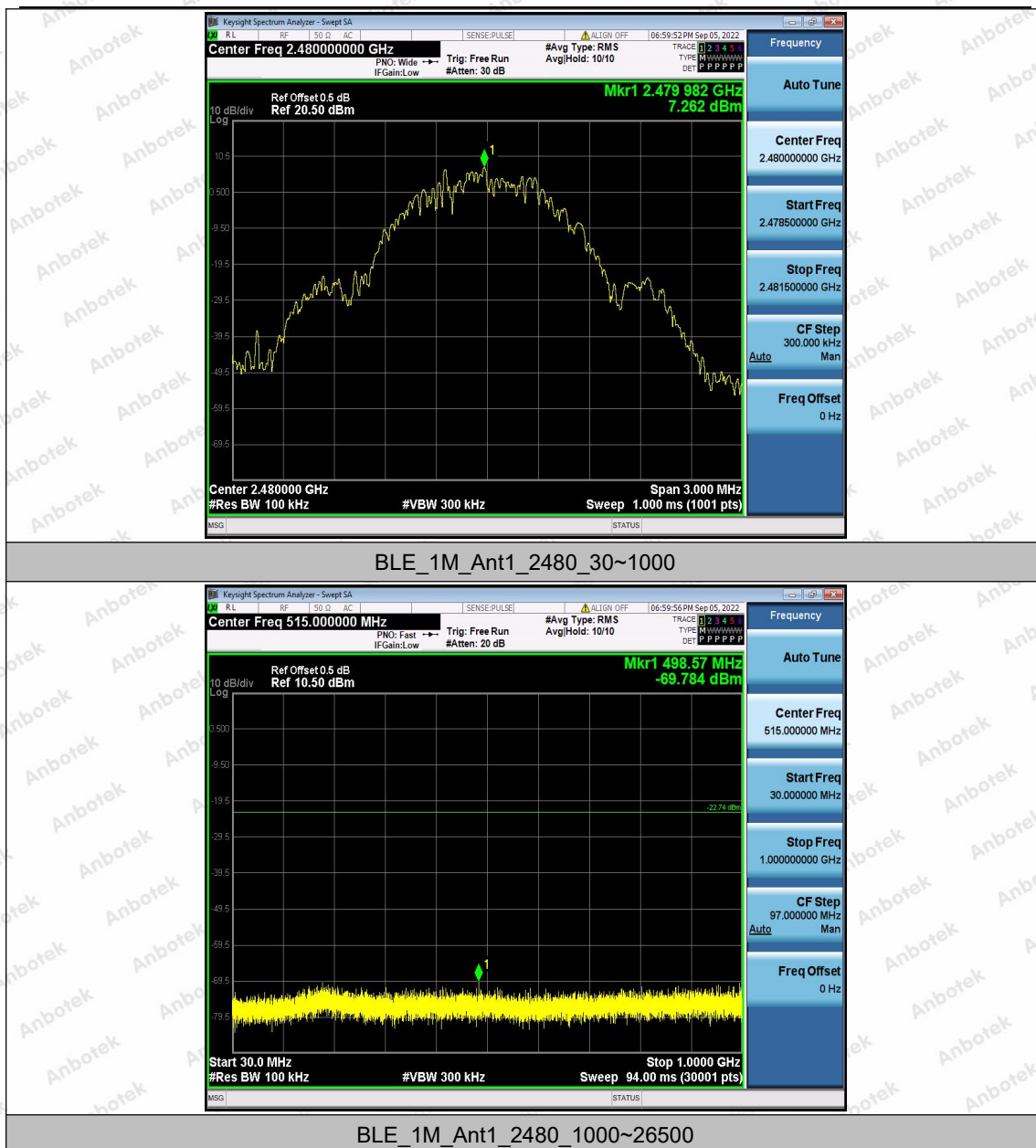


BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference





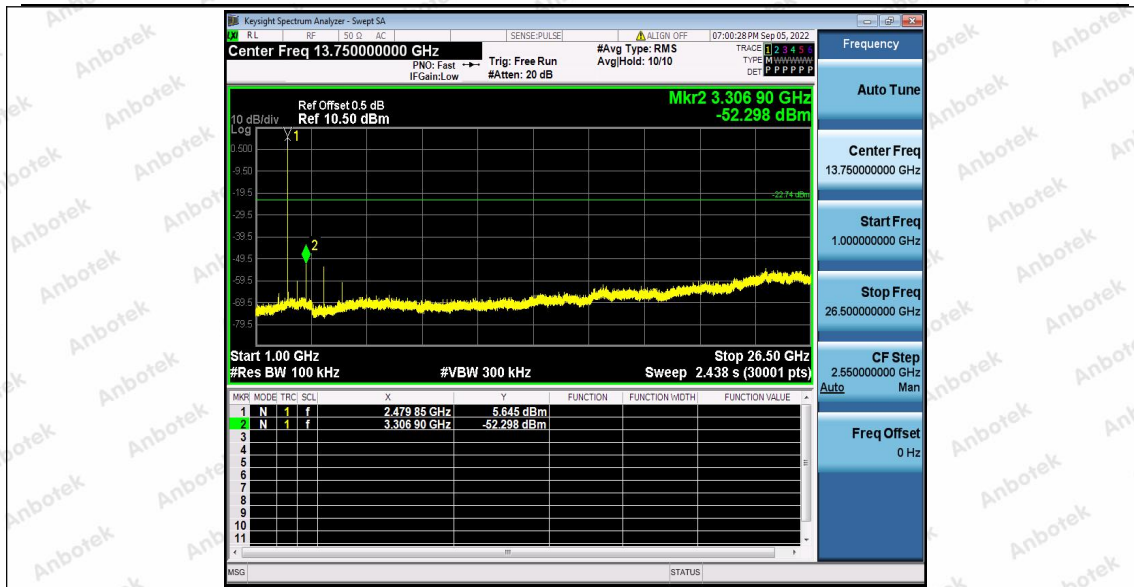
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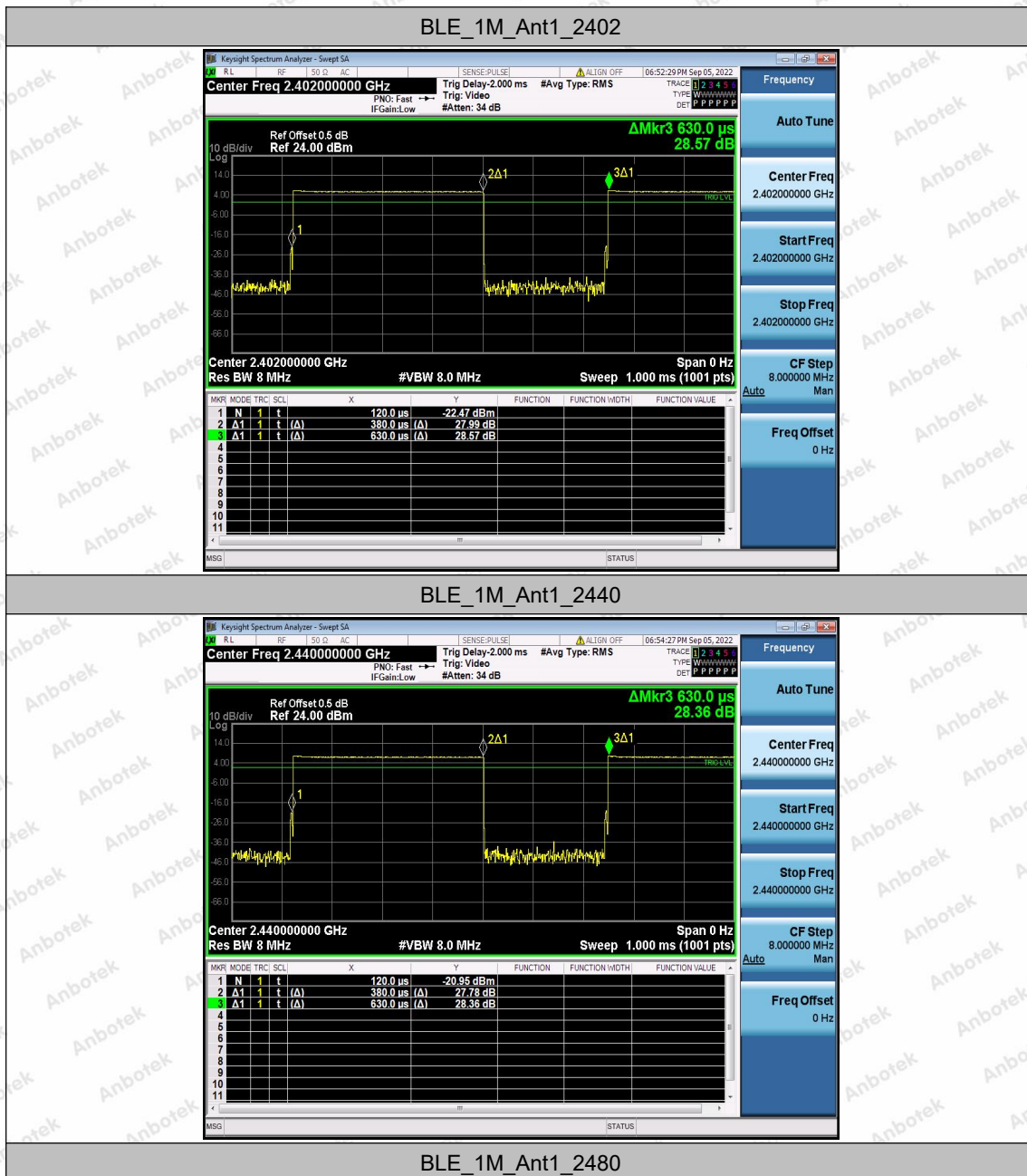
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	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



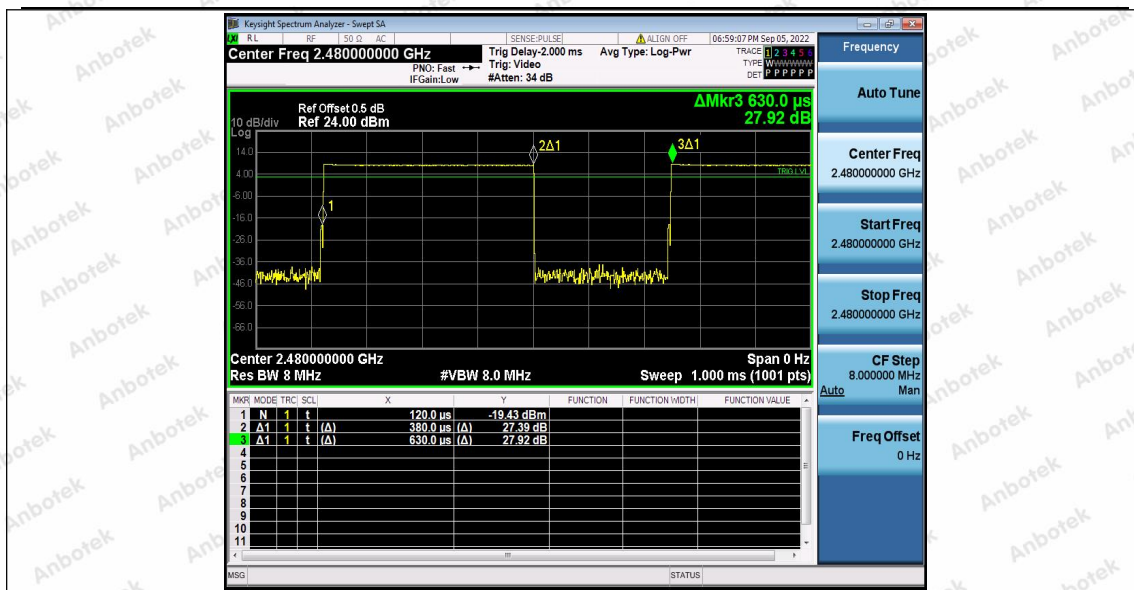
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