

Appendix Test Data

Report No.:	18220WC30153601	Test Sample No.:	1-2-2
Start Test Date:	2023.07.26	Finish Test Date:	2023.07.31
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.8°C	Relative Humidity:	48%
Pressure:	1012 hPa		

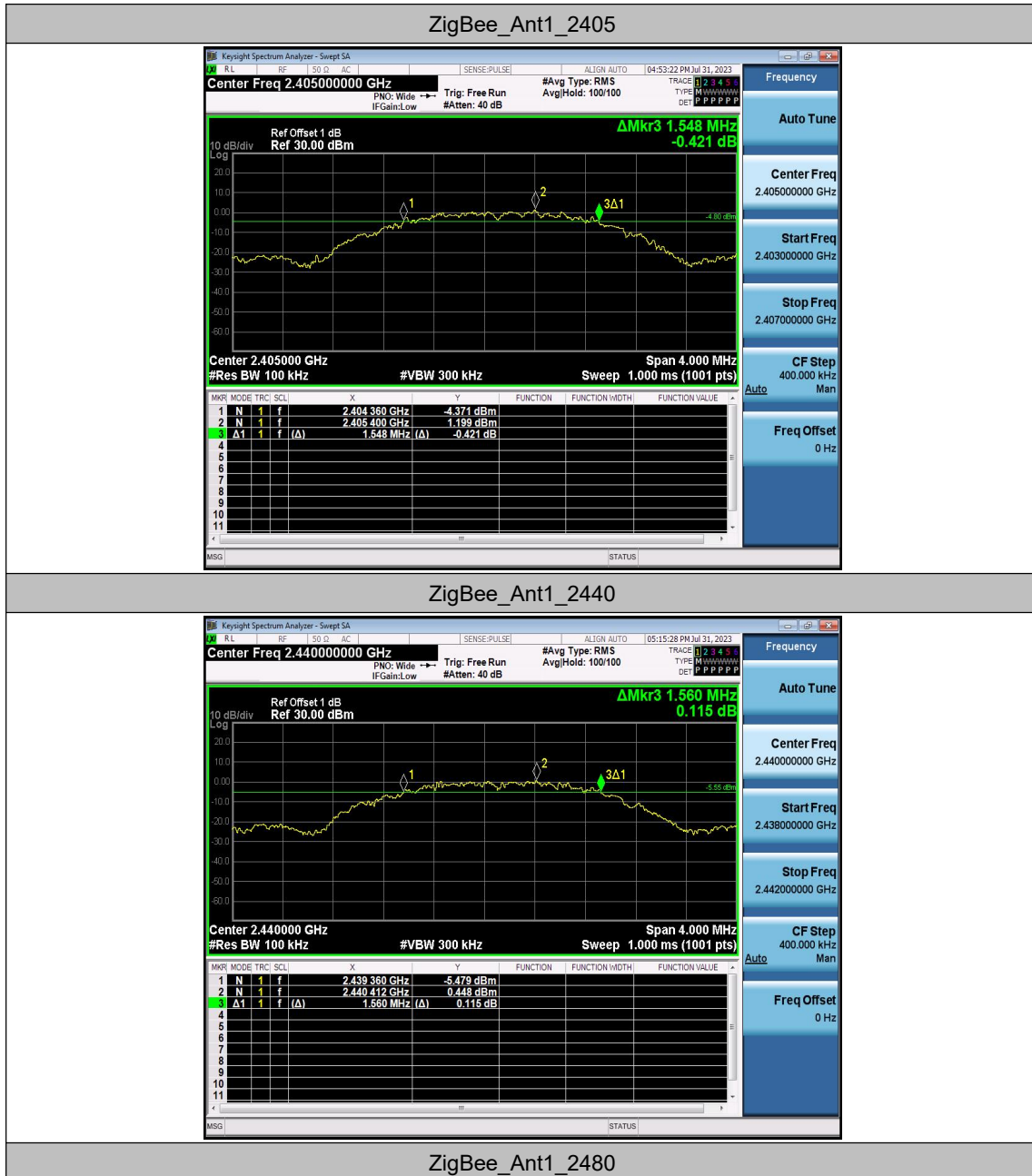
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ZigBee	Ant1	2405	1.548	2404.360	2405.908	0.5	PASS
		2440	1.560	2439.360	2440.920	0.5	PASS
		2480	1.644	2479.320	2480.964	0.5	PASS



Test Graphs





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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
ZigBee	Ant1	2405	2.3927	2403.8878	2406.2805
		2440	2.4361	2438.8822	2441.3183
		2480	2.4053	2478.8828	2481.2881

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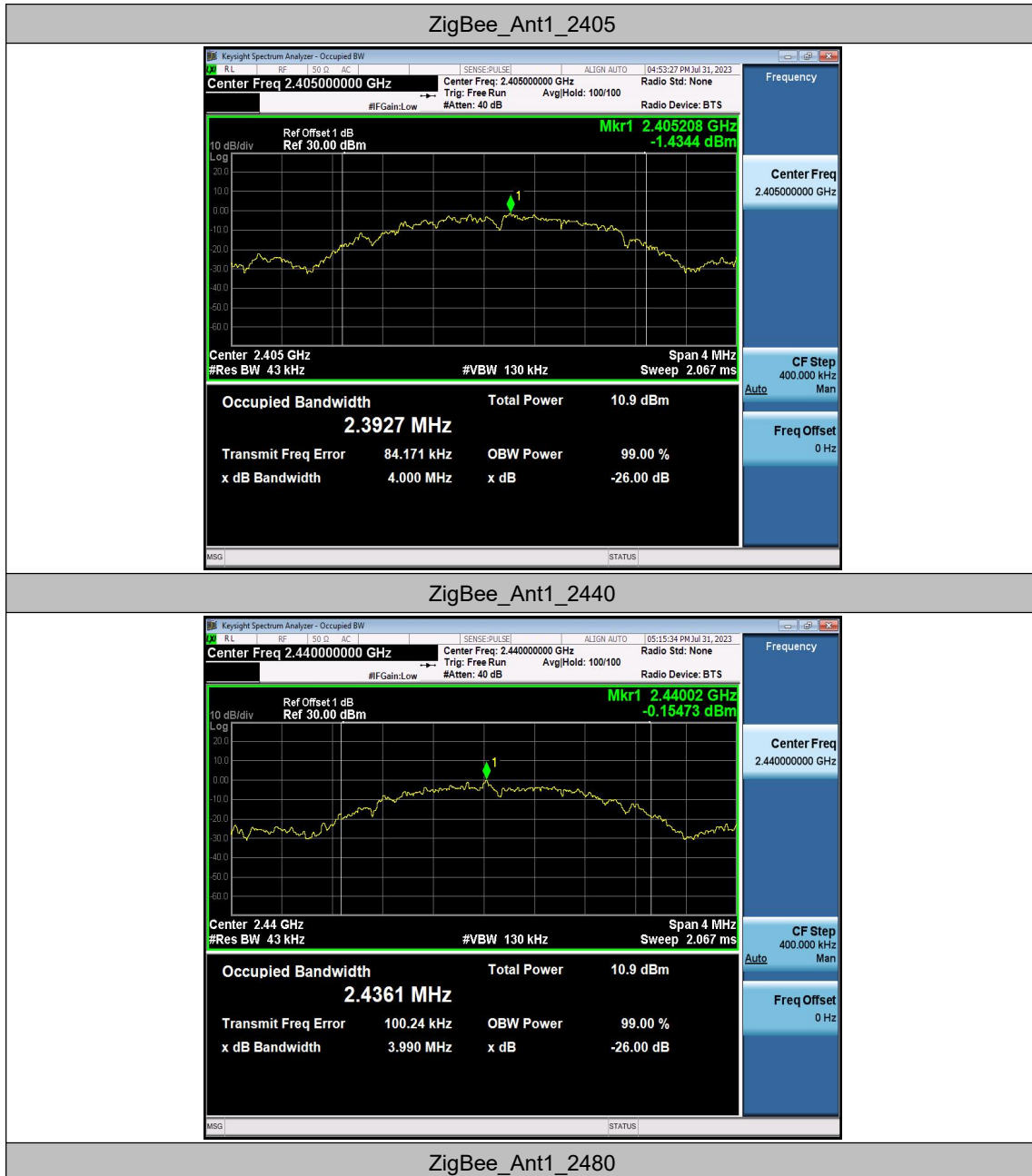
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
ZigBee	Ant1	2405	4.85	≤30	PASS
		2440	4.71	≤30	PASS
		2480	4.84	≤30	PASS

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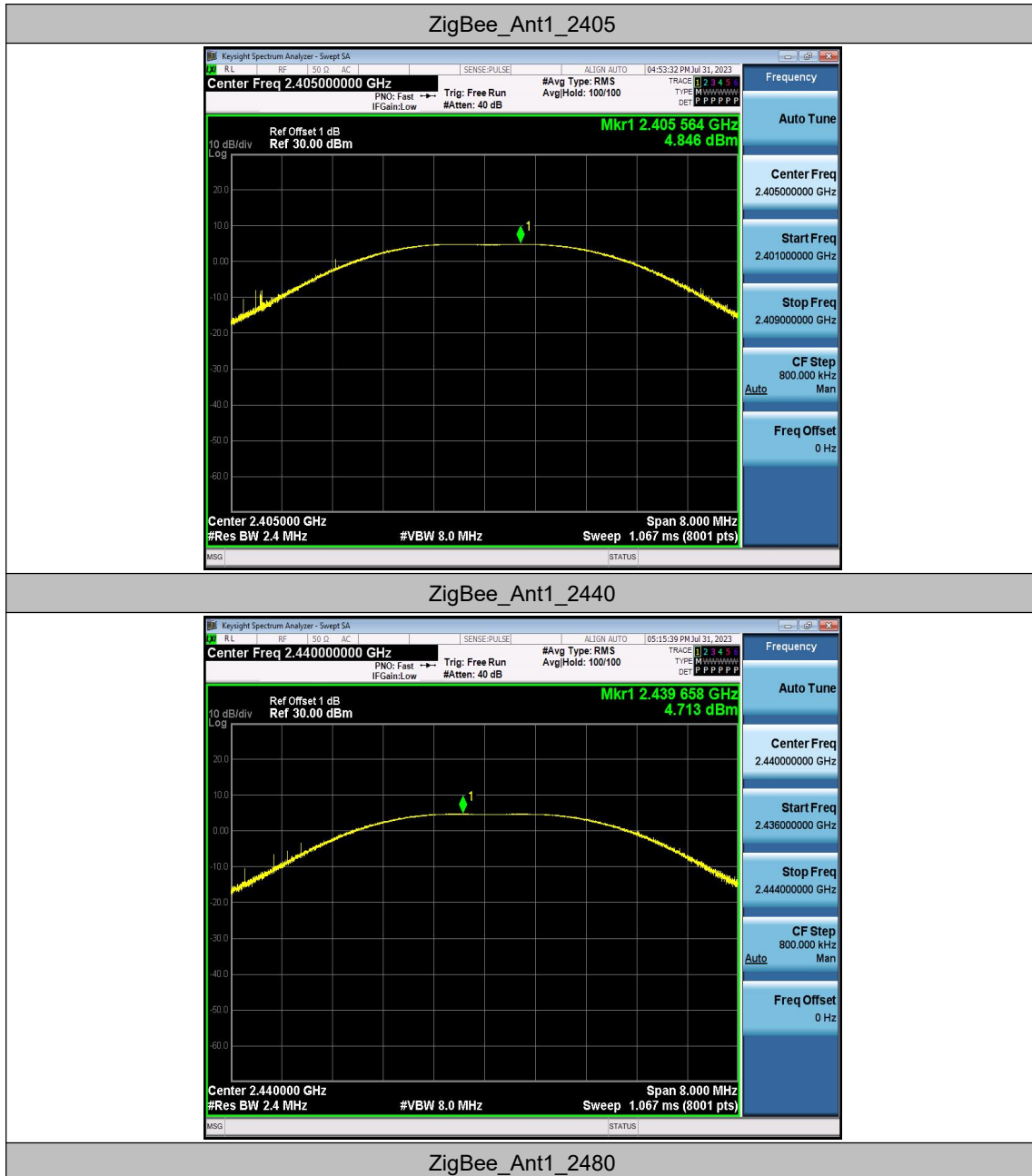
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Test Graphs Peak



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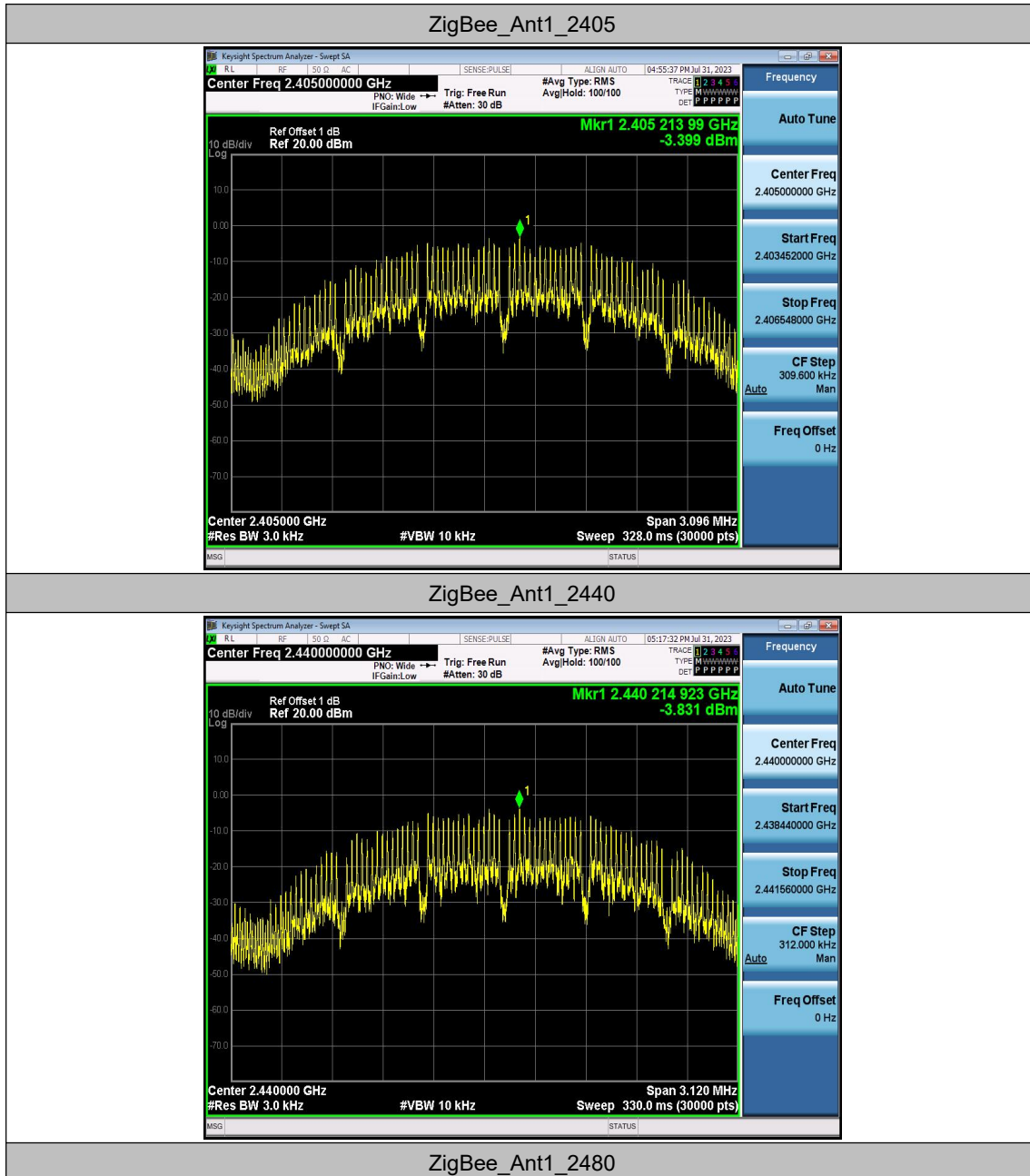
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
ZigBee	Ant1	2405	-3.4	≤8.00	PASS
		2440	-3.83	≤8.00	PASS
		2480	-4.48	≤8.00	PASS



Test Graphs



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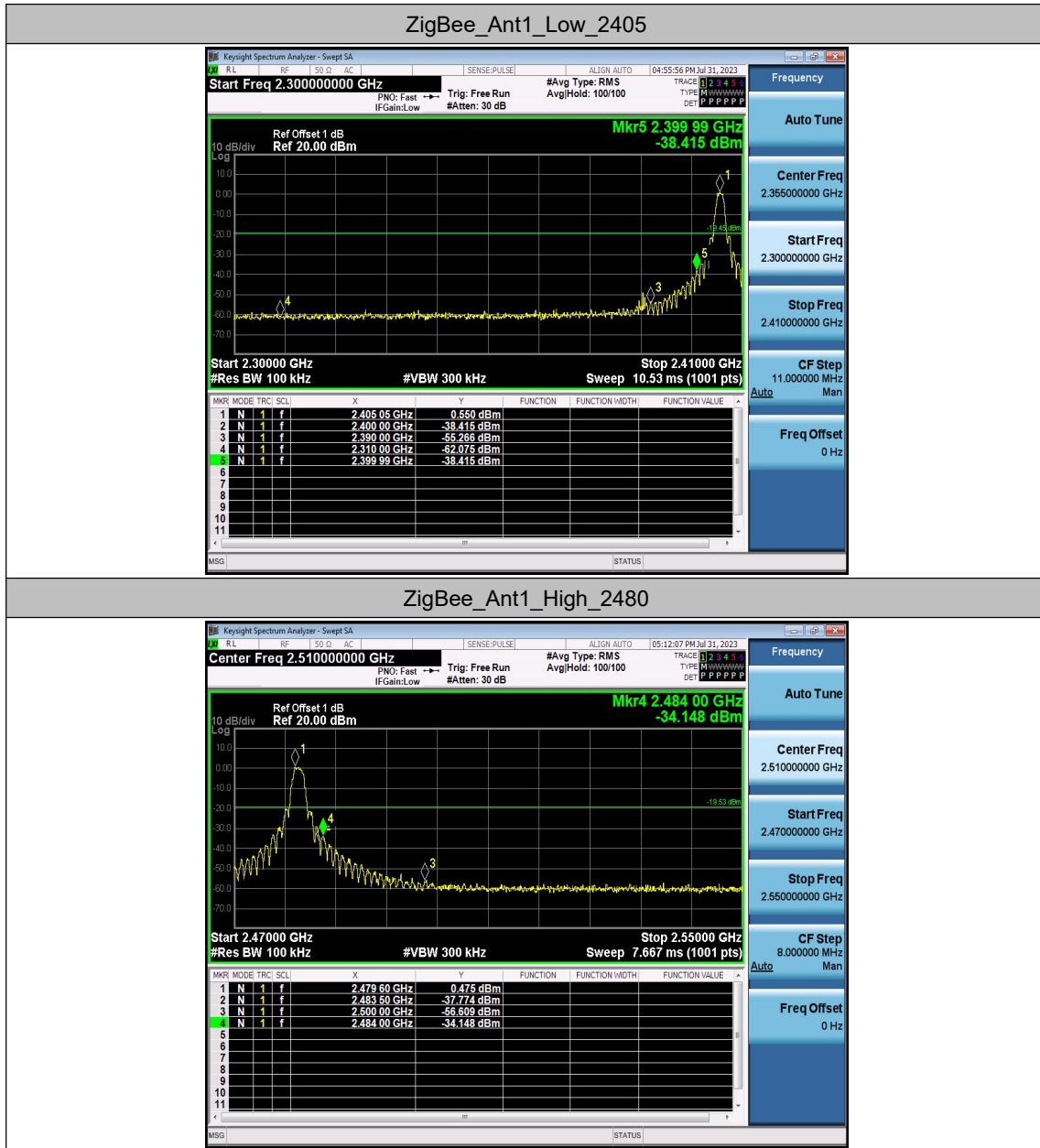
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	Low	2405	0.55	-38.42	≤-19.45	PASS
		High	2480	0.48	-34.15	≤-19.53	PASS



Test Graphs



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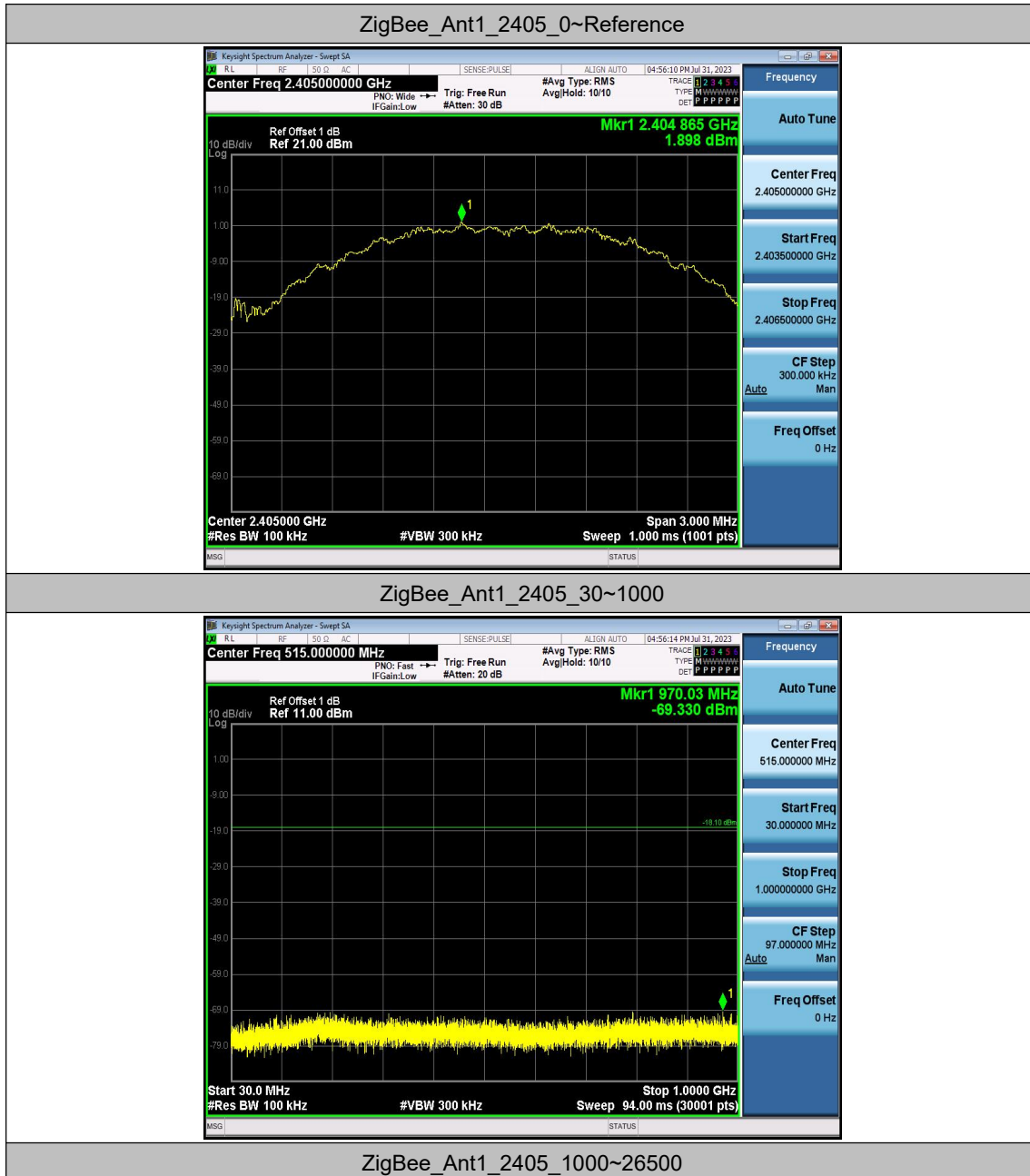
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
ZigBee	Ant1	2405	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-69.33	≤-18.1	PASS
			1000~26500	1.90	-51.1	≤-18.1	PASS
		2440	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-69.03	≤-18.25	PASS
			1000~26500	1.75	-52.35	≤-18.25	PASS
		2480	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-69.5	≤-18.83	PASS
			1000~26500	1.17	-49.85	≤-18.83	PASS



Test Graphs



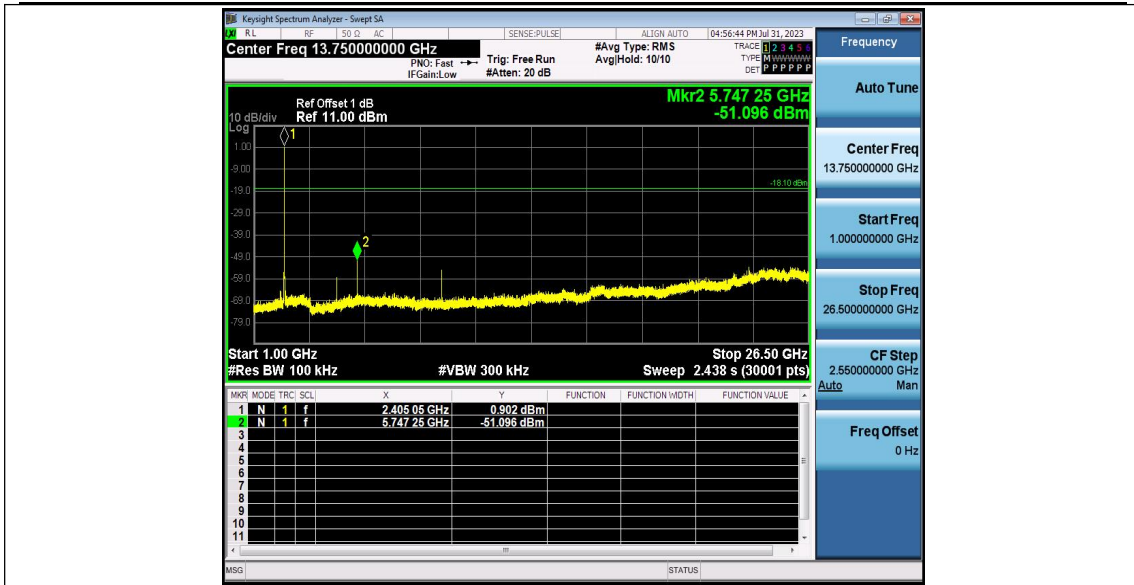
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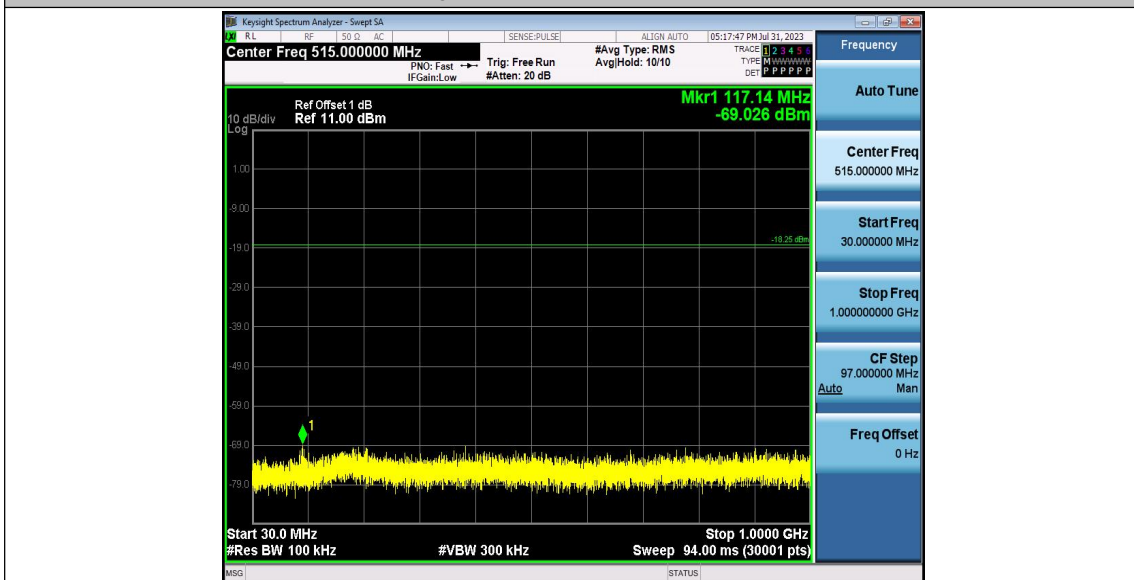




ZigBee_Ant1_2440_0~Reference



ZigBee_Ant1_2440_30~1000

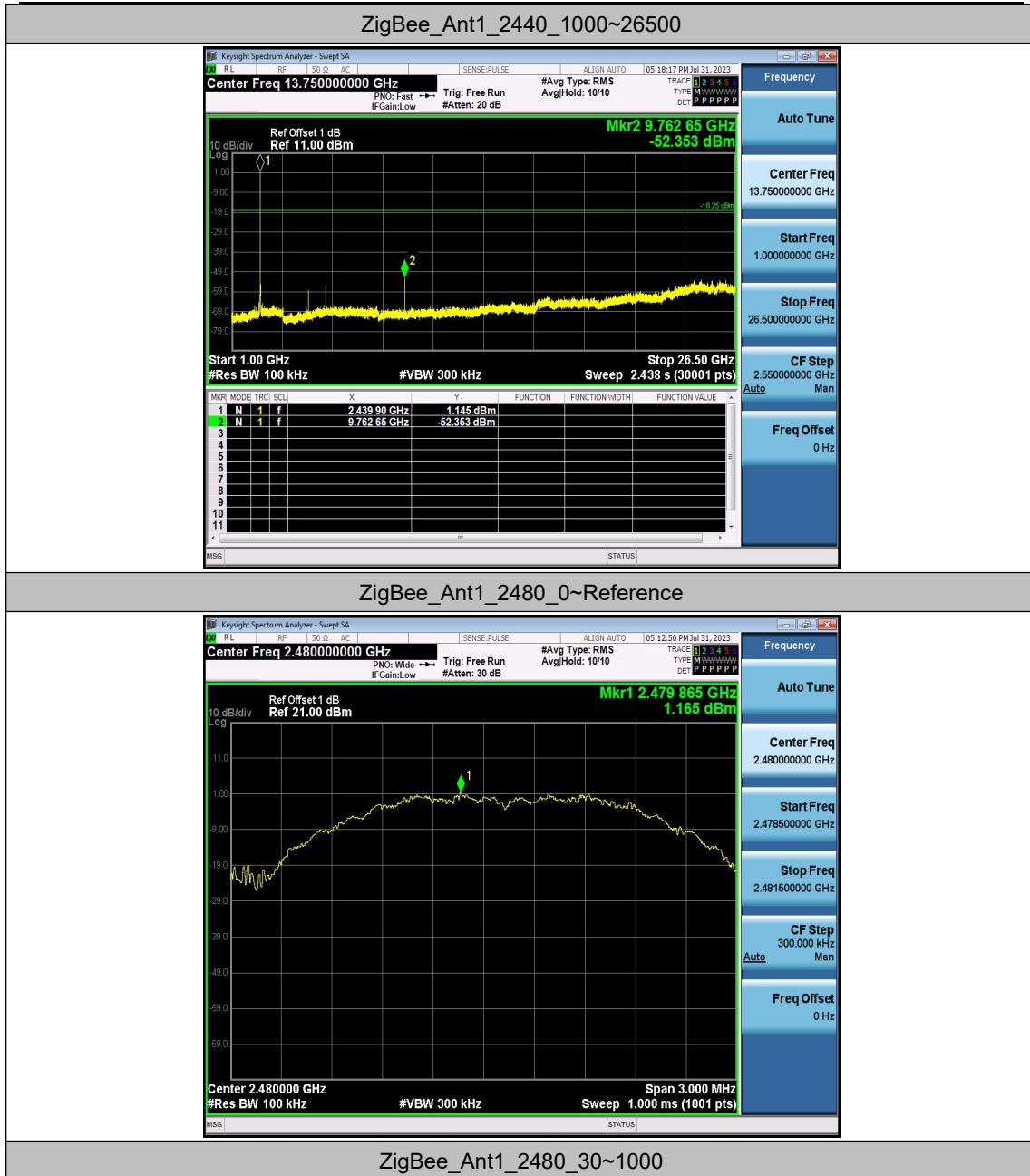


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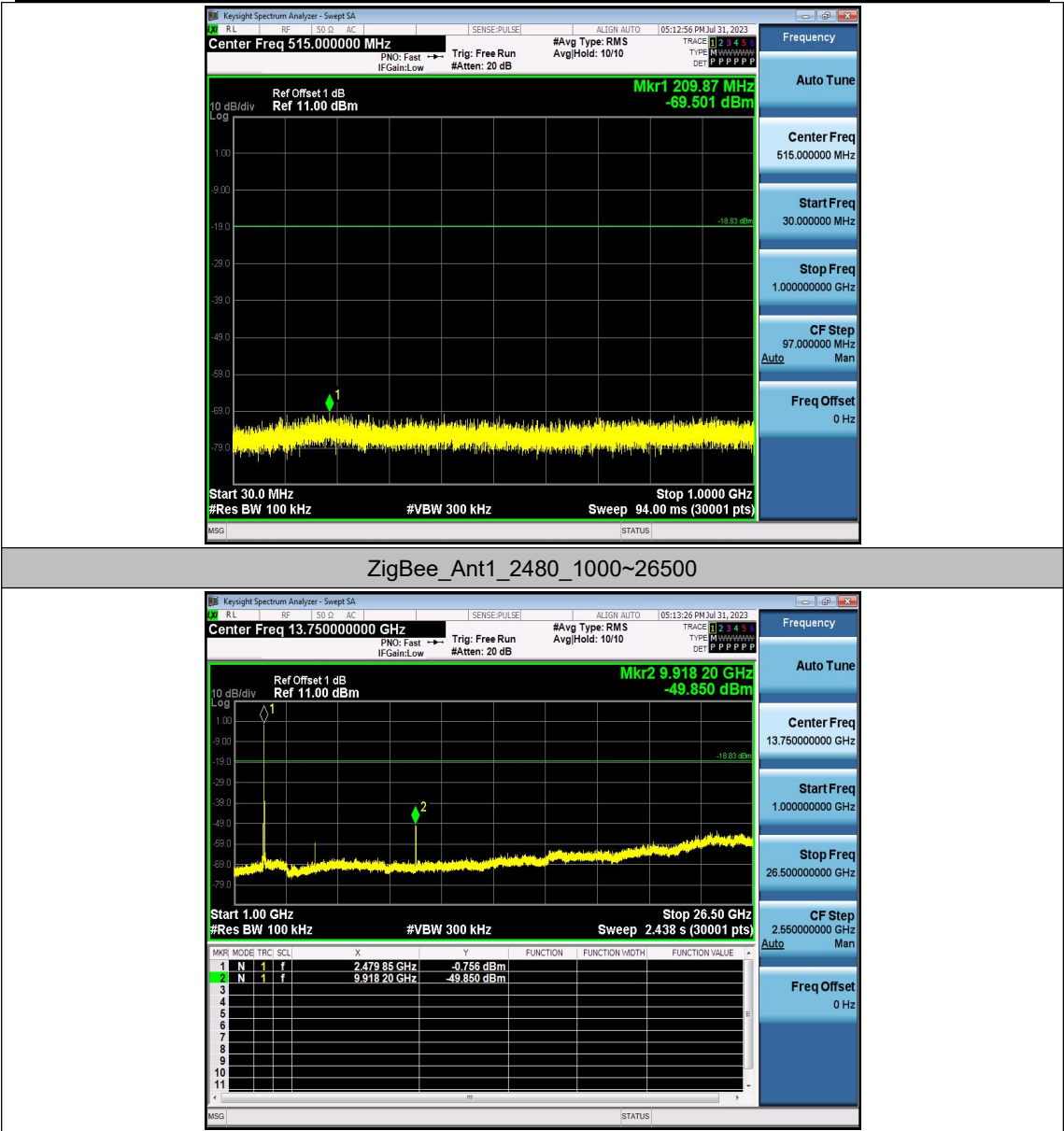
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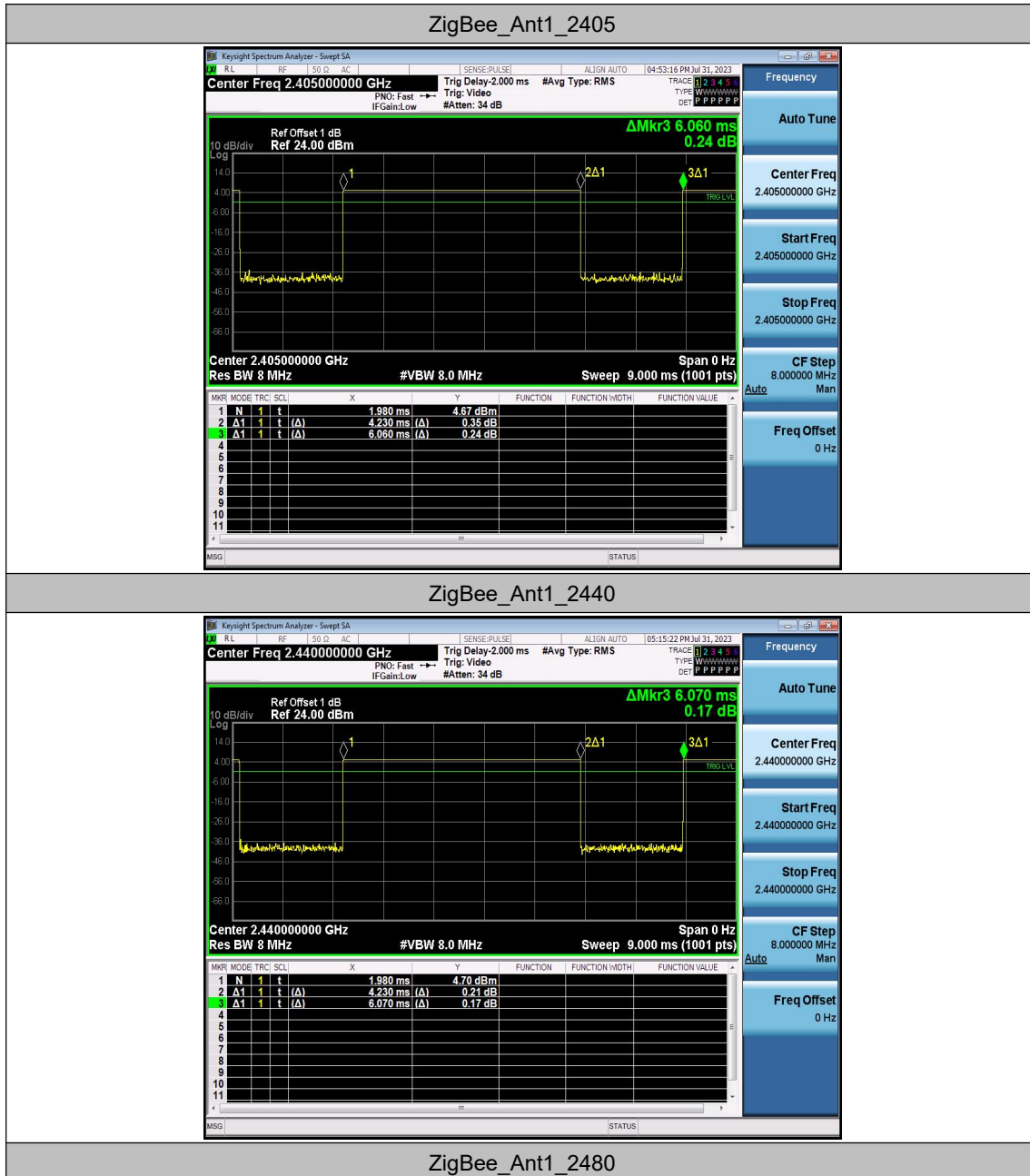
Appendix G: Duty Cycle

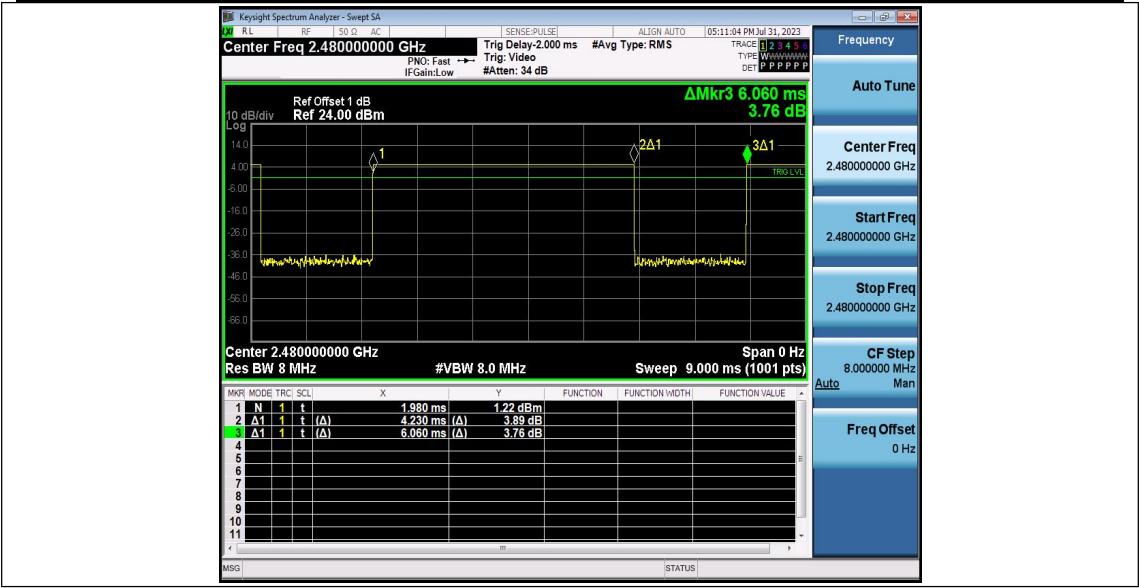
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
ZigBee	Ant1	2405	4.23	6.06	69.80	1.56
		2440	4.23	6.07	69.69	1.57
		2480	4.23	6.06	69.80	1.56



Test Graphs





---End---

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