

Appendix Test Data

Report No.:	18220WC40042205	Test Sample No.:	1-2-2
Start Test Date:	2024.04.13	Finish Test Date:	2024.05.15
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	1.652	2404.160	2405.812	0.5	PASS
		2440	1.624	2439.184	2440.808	0.5	PASS
		2480	1.620	2479.172	2480.792	0.5	PASS



Test Graphs

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

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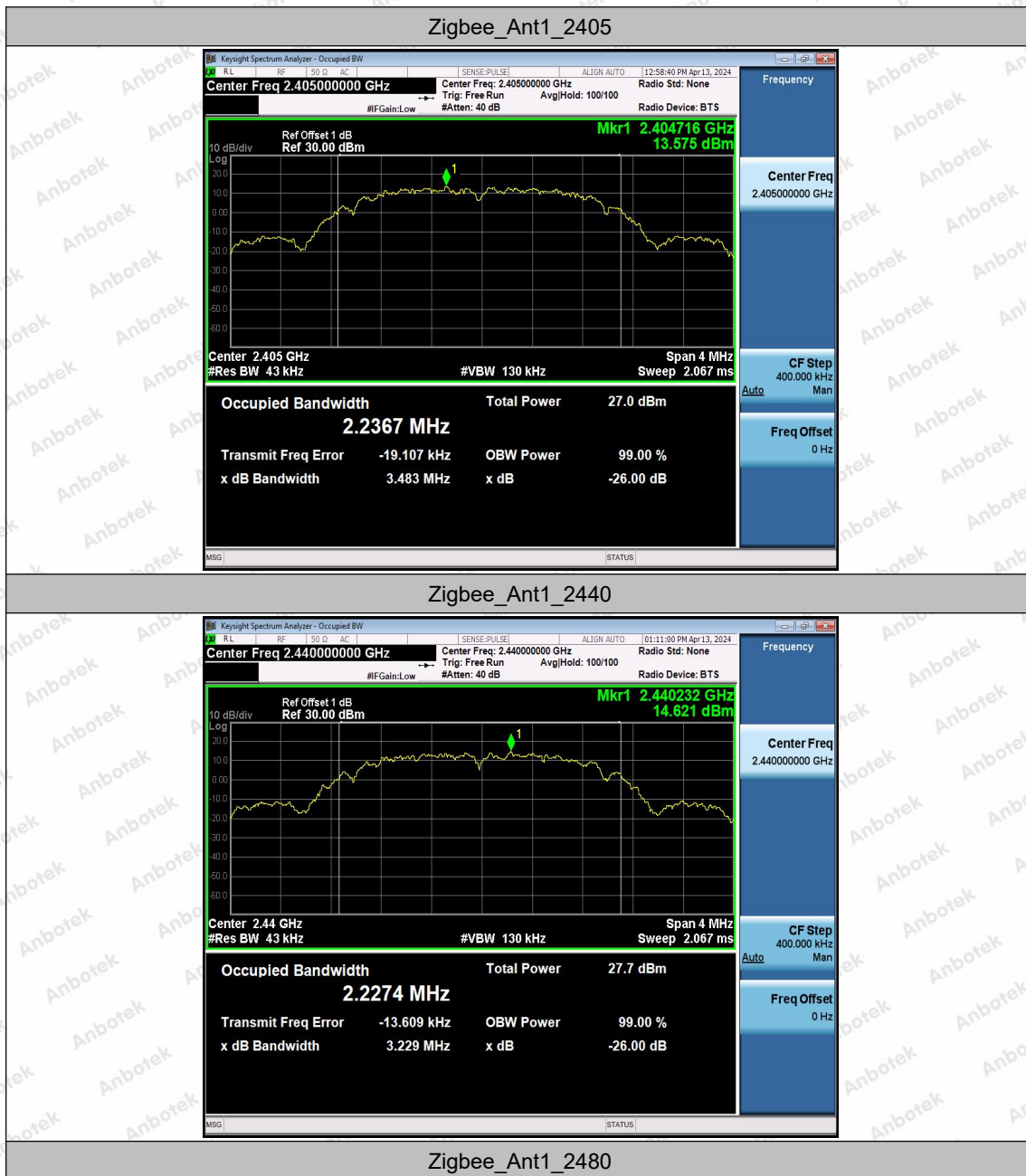
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Zigbee	Ant1	2405	2.2367	2403.8625	2406.0992	---	---
		2440	2.2274	2438.8727	2441.1001	---	---
		2480	2.2440	2478.8587	2481.1027	---	---



Test Graphs



Zigbee_Ant1_2480

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Appendix C: Maximum Conducted Output Power

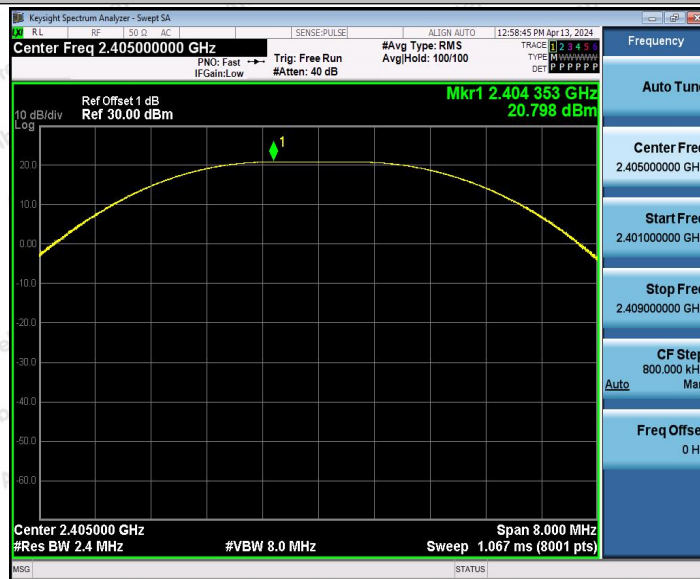
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Zigbee	Ant1	2405	20.80	≤30	PASS
		2440	21.38	≤30	PASS
		2480	21.27	≤30	PASS

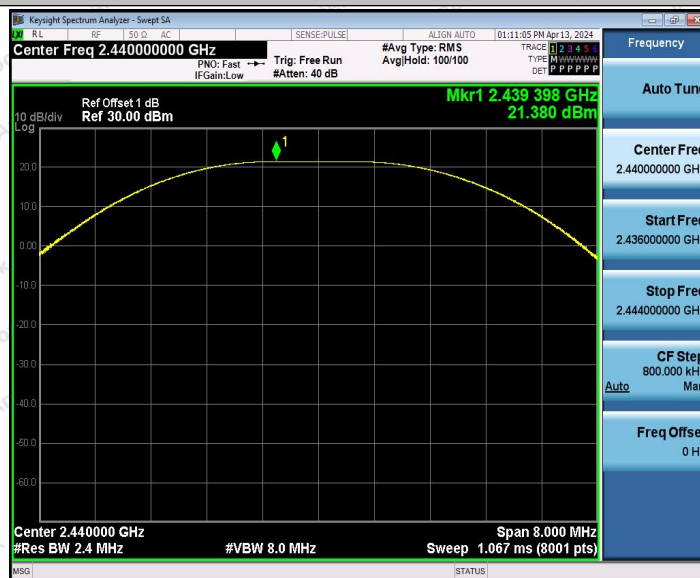


Test Graphs Peak

Zigbee_Ant1_2405



Zigbee_Ant1_2440



Zigbee_Ant1_2480

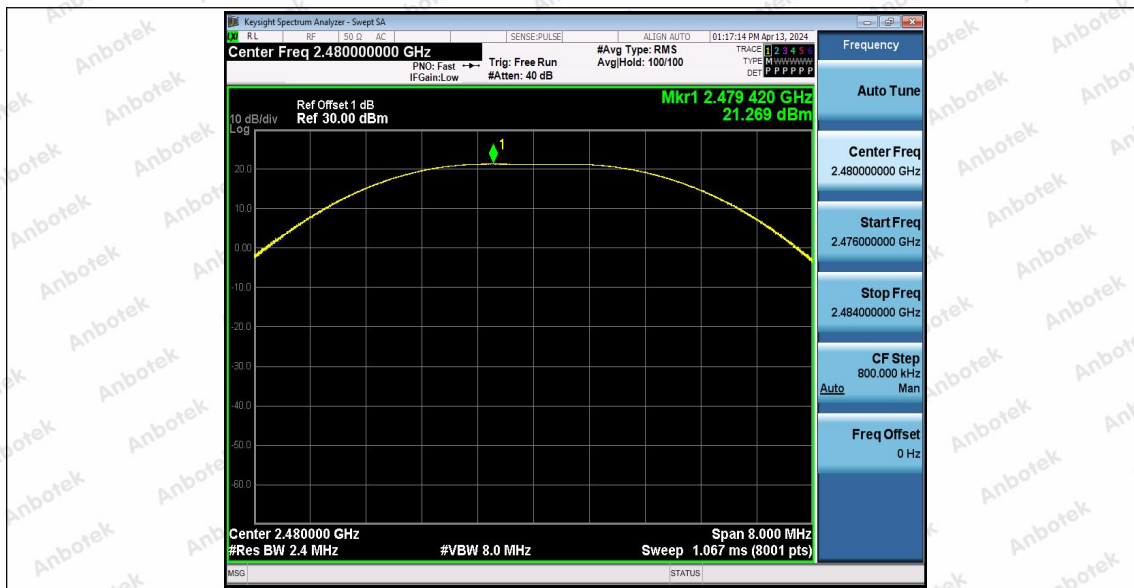
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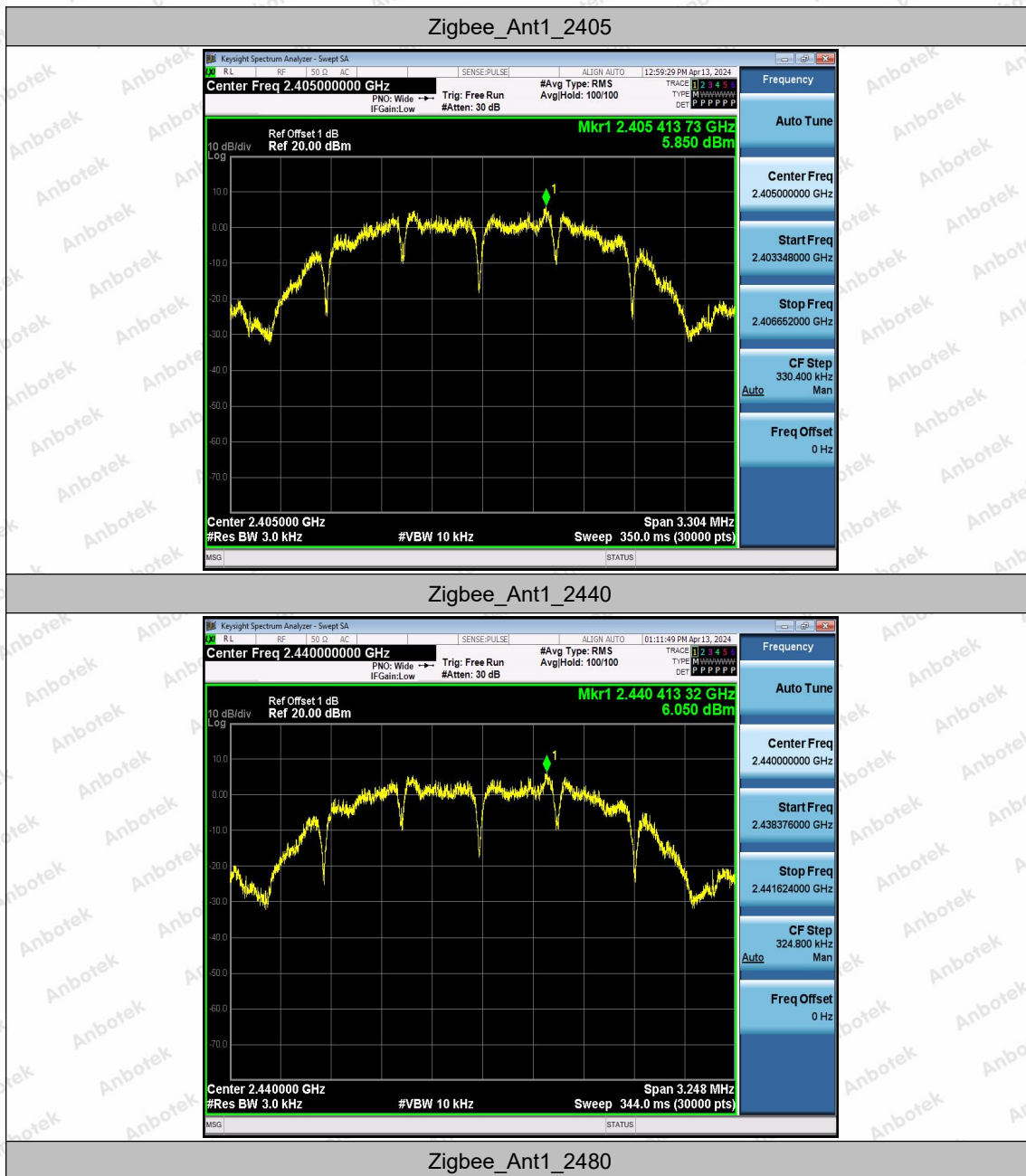
Appendix D: Maximum Power Spectral Density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Zigbee	Ant1	2405	5.85	≤8.00	PASS
		2440	6.05	≤8.00	PASS
		2480	6.31	≤8.00	PASS



Test Graphs



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Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	Low	2405	16.45	-37.13	≤-3.56	PASS
		High	2480	17.82	-33.7	≤-2.18	PASS



Test Graphs



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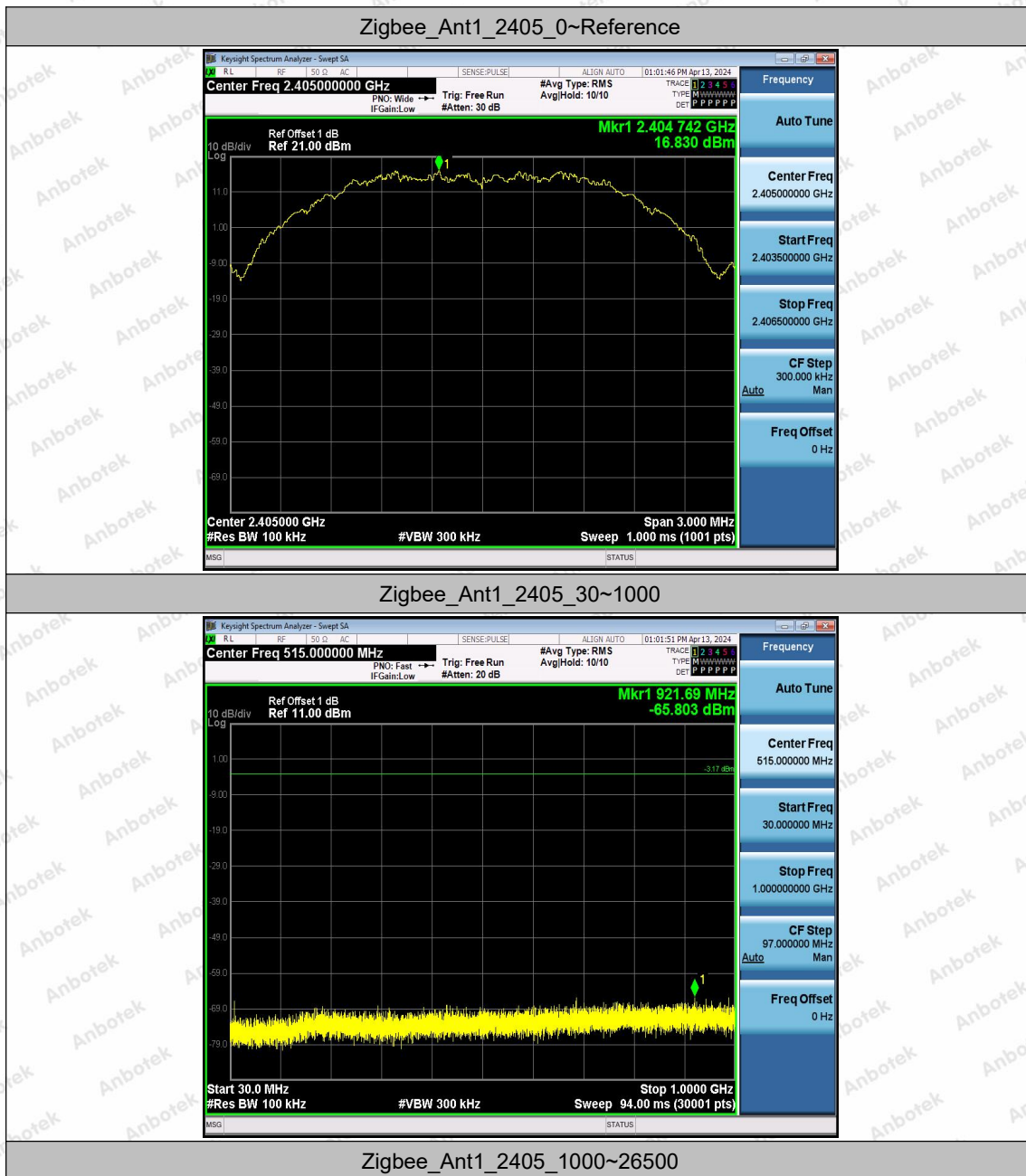
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Zigbee	Ant1	2405	Reference	16.83	16.83	---	PASS
			30~1000	16.83	-65.8	≤ -3.17	PASS
			1000~26500	16.83	-40.13	≤ -3.17	PASS
		2440	Reference	17.41	17.41	---	PASS
			30~1000	17.41	-65.13	≤ -2.59	PASS
			1000~26500	17.41	-39.03	≤ -2.59	PASS
		2480	Reference	17.17	17.17	---	PASS
			30~1000	17.17	-63.92	≤ -2.83	PASS
			1000~26500	17.17	-37.48	≤ -2.83	PASS



Test Graphs



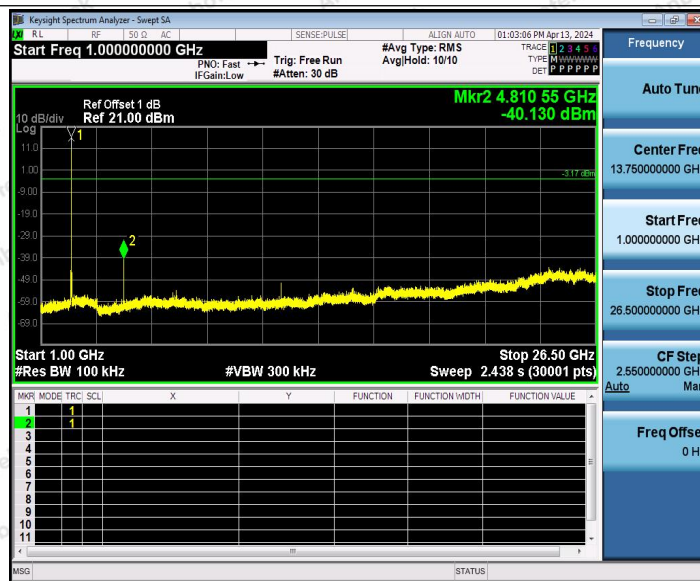
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Zigbee_Ant1_2440_0~Reference



Zigbee_Ant1_2440_30~1000

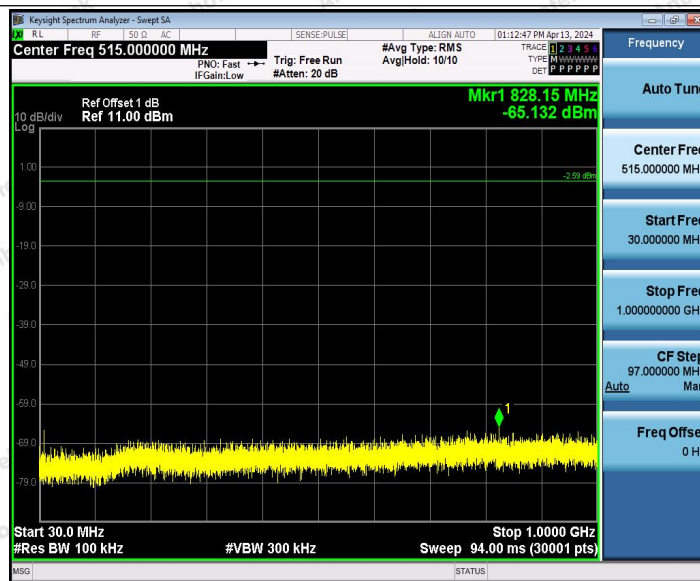
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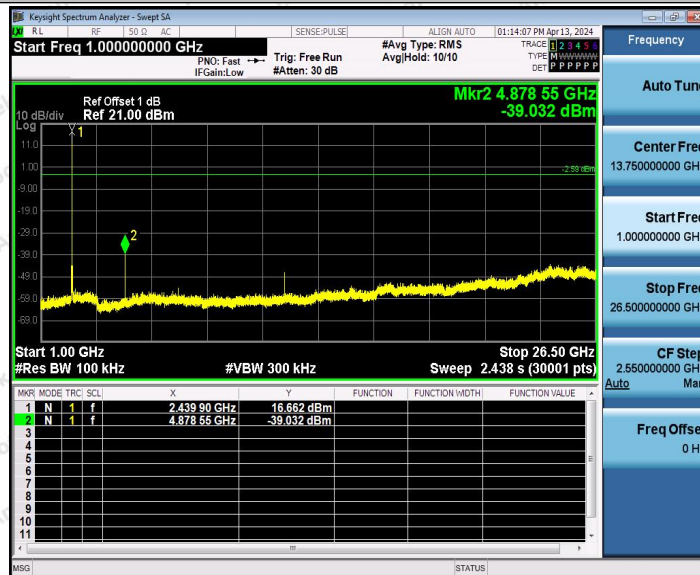


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Zigbee_Ant1_2440_1000~26500



Zigbee_Ant1_2480_0~Reference

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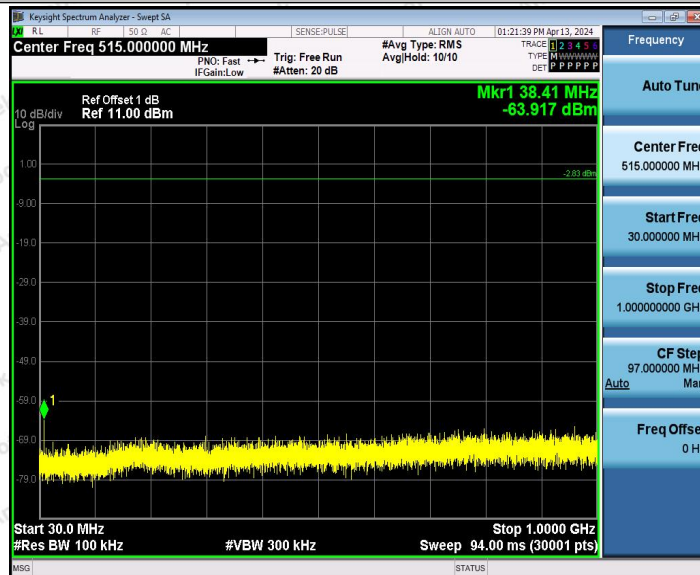


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Zigbee_Ant1_2480_30~1000



Zigbee_Ant1_2480_1000~26500

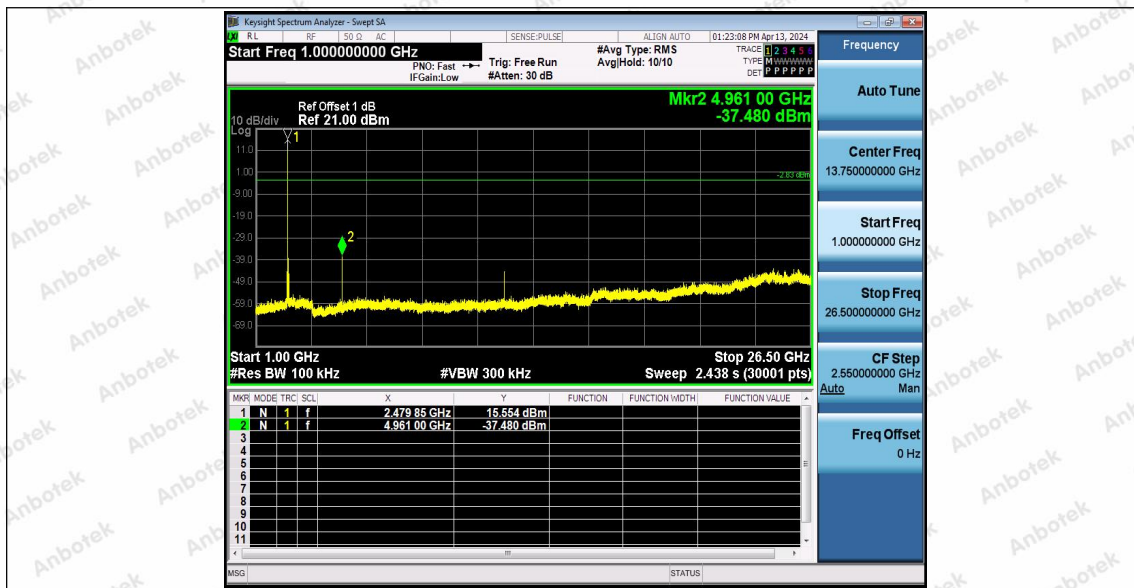
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
Zigbee	Ant1	2405	19.00	19.00	100	0.00
		2440	19.00	19.00	100	0.00
		2480	19.00	19.00	100	0.00



Test Graphs



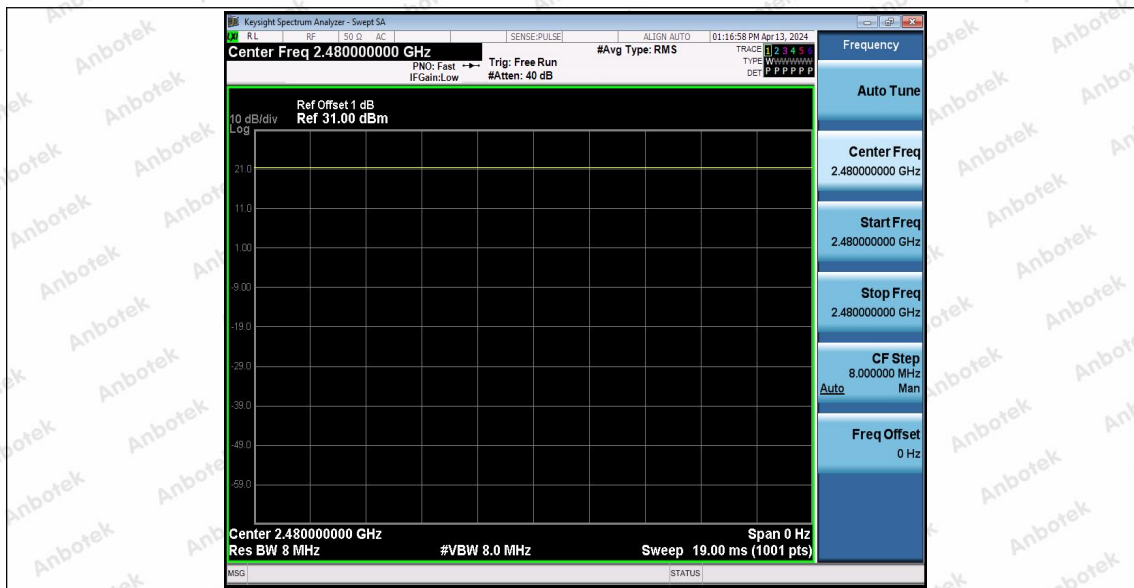
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