

Appendix Test Data

Report No.:	18220WC20173401	Test Sample No.:	1-2-2
Start Test Date:	2022.8.2	Finish Test Date:	2022.8.5
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3°C	Relative Humidity:	45 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.544	2402.483	---	PASS
		2441	0.939	2440.547	2441.486	---	PASS
		2480	0.948	2479.541	2480.489	---	PASS
2DH5	Ant1	2402	1.260	2401.373	2402.633	---	PASS
		2441	1.290	2440.349	2441.639	---	PASS
		2480	1.257	2479.379	2480.636	---	PASS
3DH5	Ant1	2402	1.254	2401.361	2402.615	---	PASS
		2441	1.266	2440.358	2441.624	---	PASS
		2480	1.245	2479.370	2480.615	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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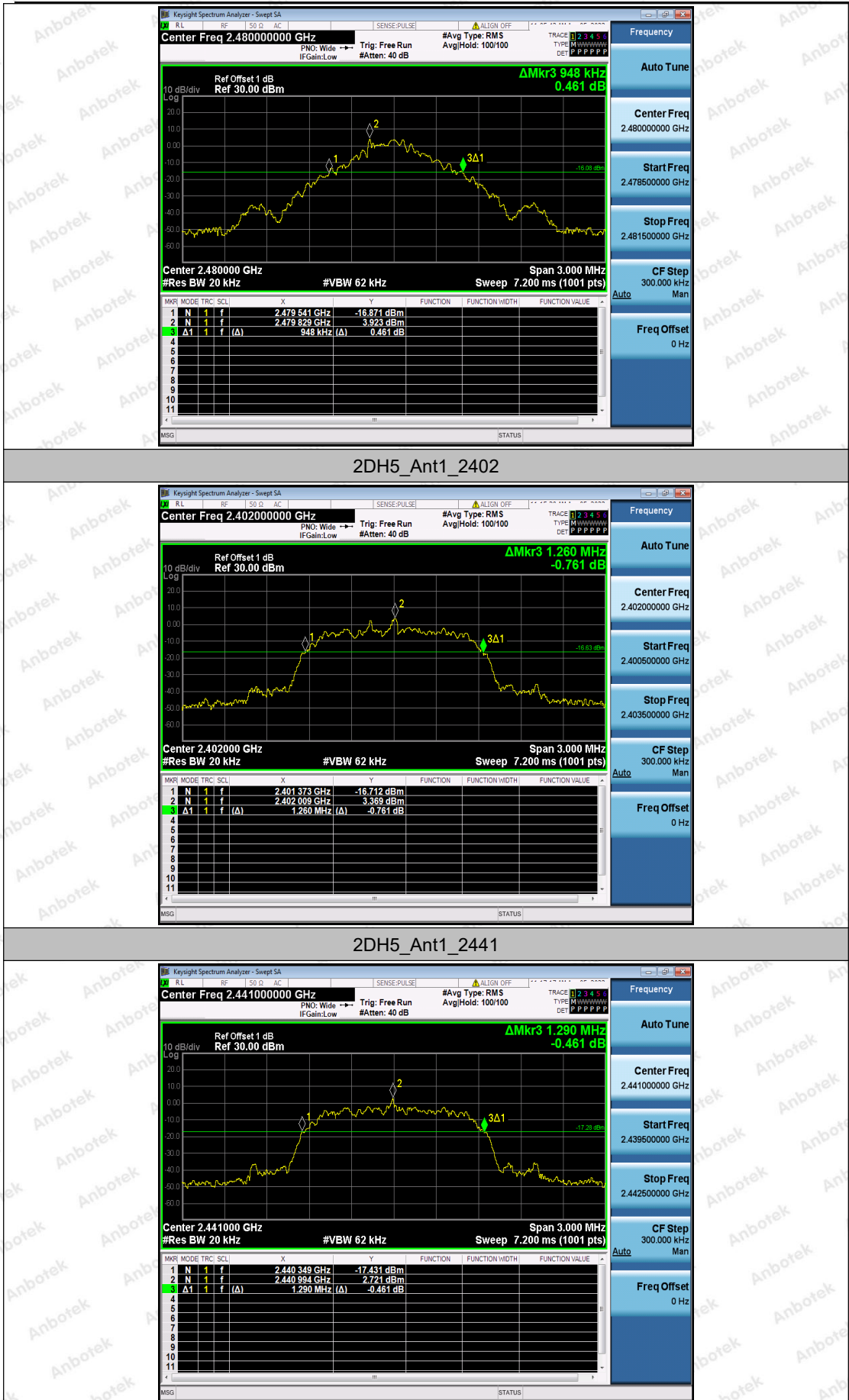
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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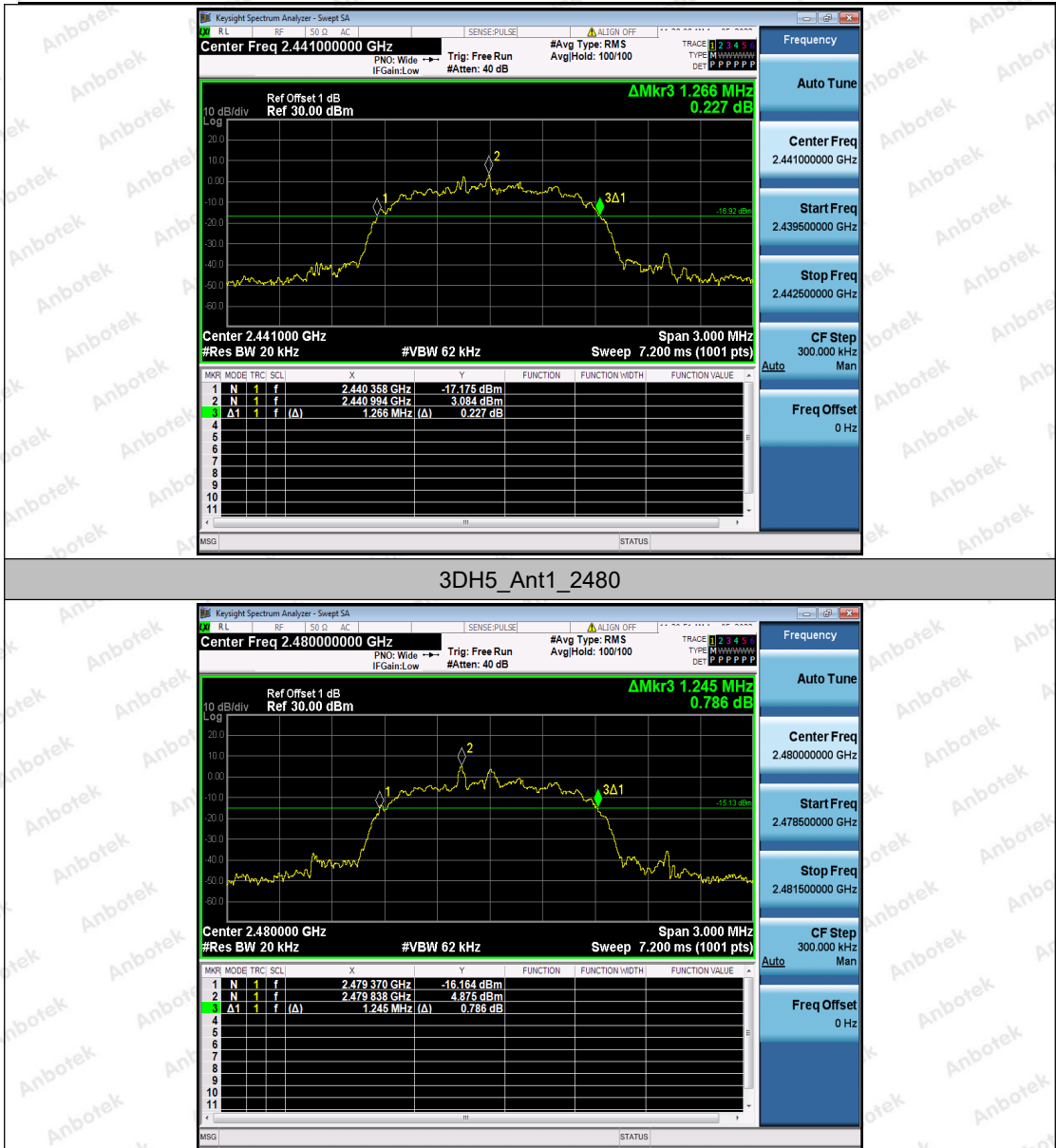
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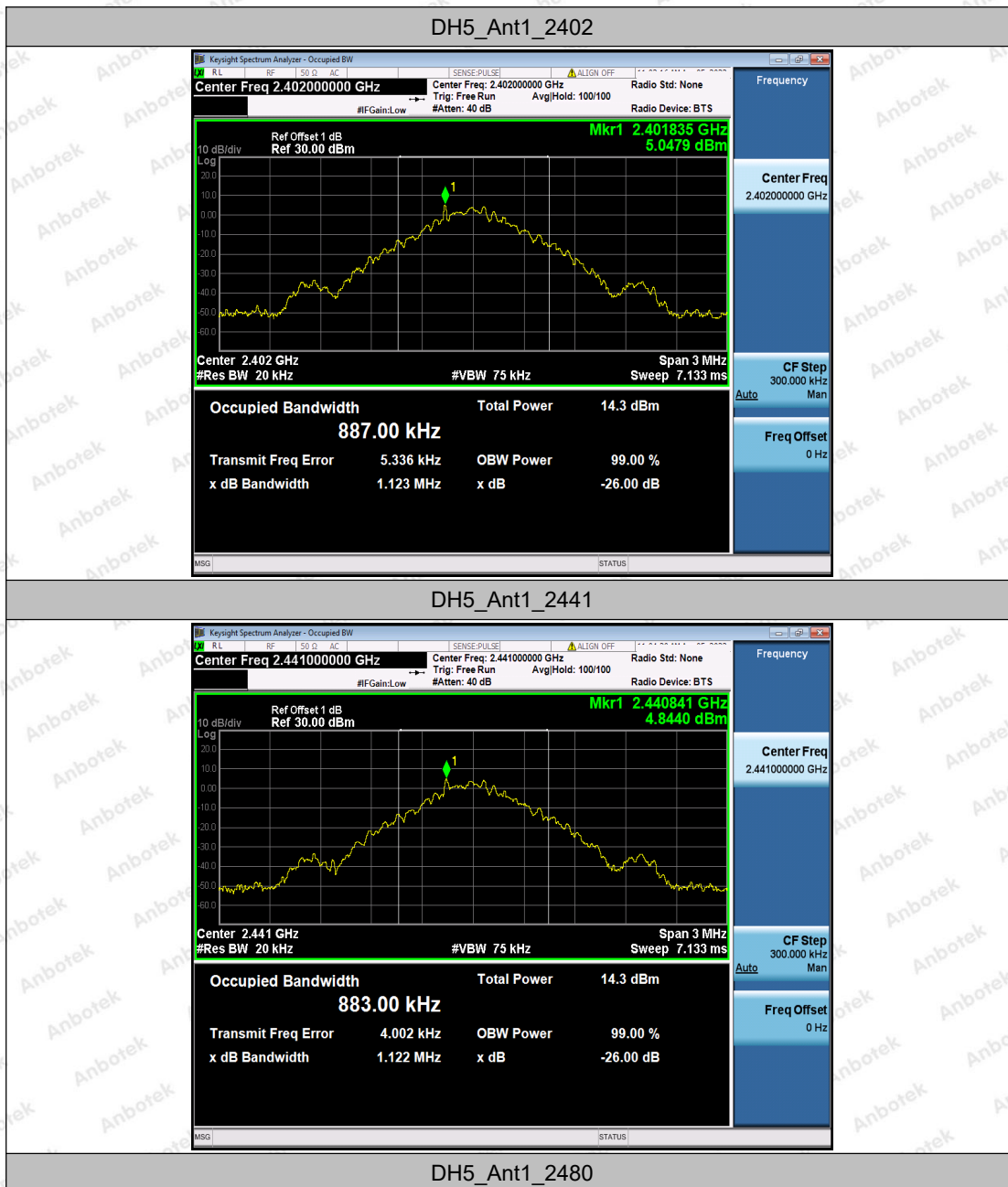
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88700	2401.56 2	2402.449	---	PASS
		2441	0.88300	2440.56 3	2441.446	---	PASS
		2480	0.88306	2479.56 3	2480.446	---	PASS
2DH5	Ant1	2402	1.1739	2401.41 6	2402.590	---	PASS
		2441	1.1677	2440.41 9	2441.586	---	PASS
		2480	1.1747	2479.41 5	2480.589	---	PASS
3DH5	Ant1	2402	1.1623	2401.42 0	2402.582	---	PASS
		2441	1.1652	2440.41 8	2441.583	---	PASS
		2480	1.1628	2479.42 0	2480.582	---	PASS

Test Graphs

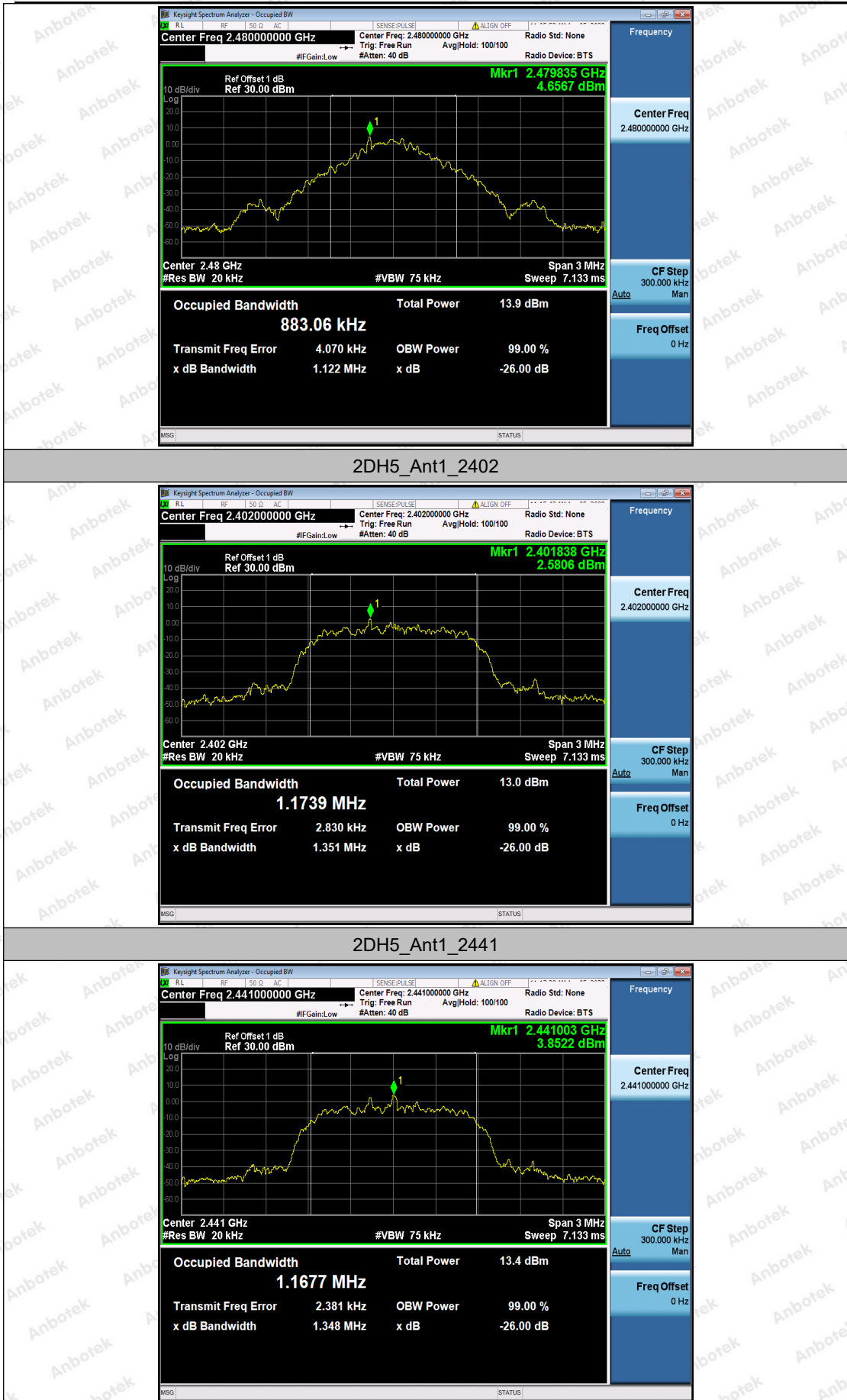


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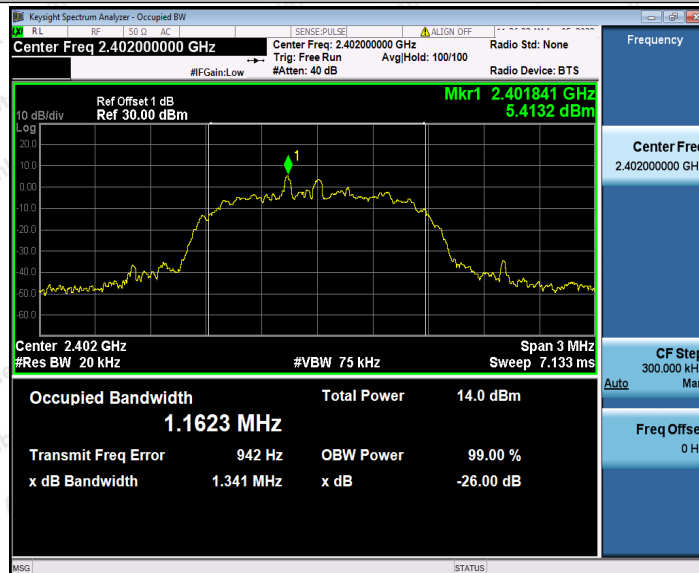
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2DH5_Ant1_2480



3DH5_Ant1_2402



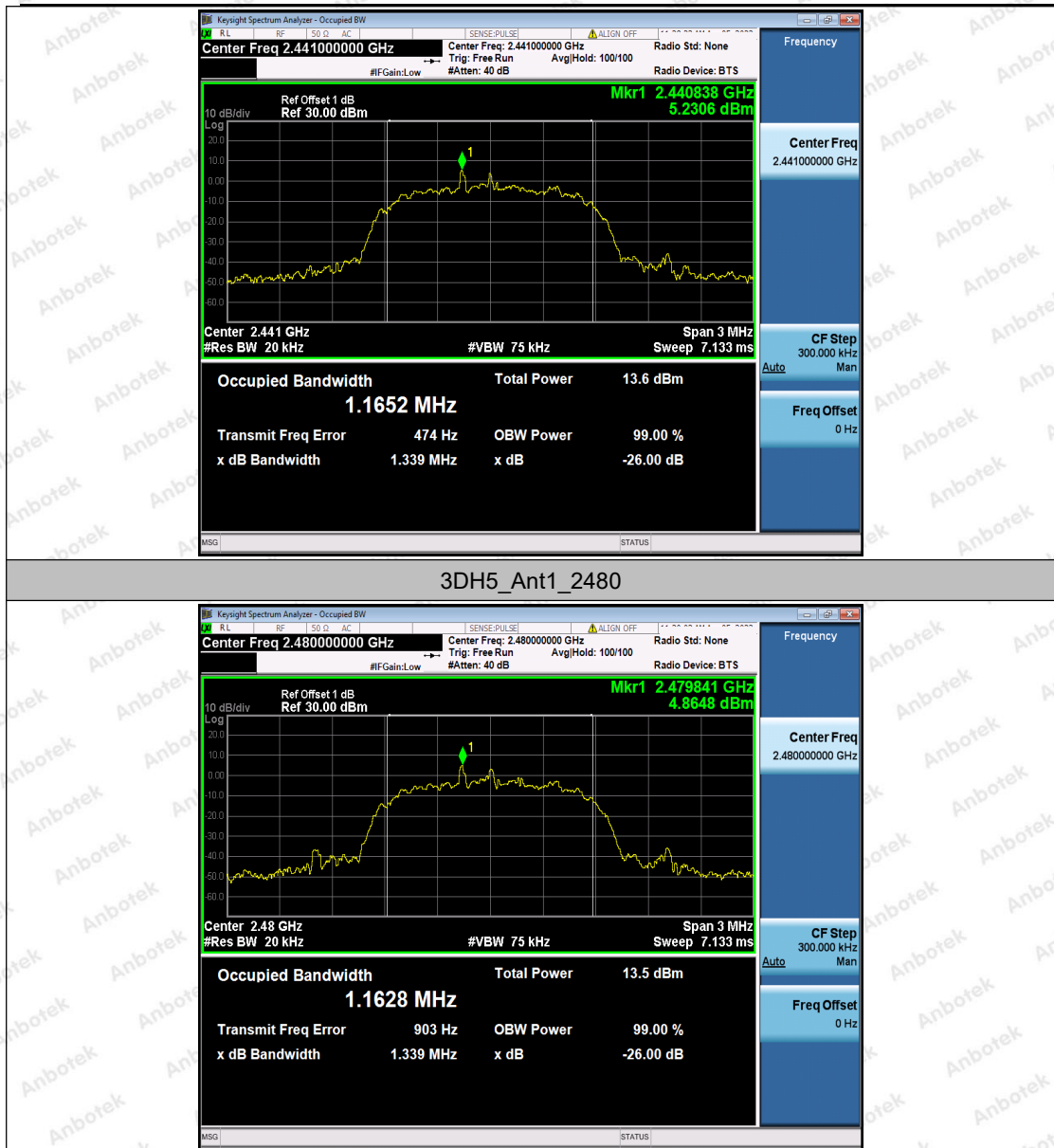
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.97	≤30	PASS
		2441	7.84	≤30	PASS
		2480	7.46	≤30	PASS
2DH5	Ant1	2402	8.8	≤30	PASS
		2441	8.66	≤30	PASS
		2480	8.26	≤30	PASS
3DH5	Ant1	2402	9.42	≤30	PASS
		2441	9.26	≤30	PASS
		2480	8.91	≤30	PASS

Test Graphs



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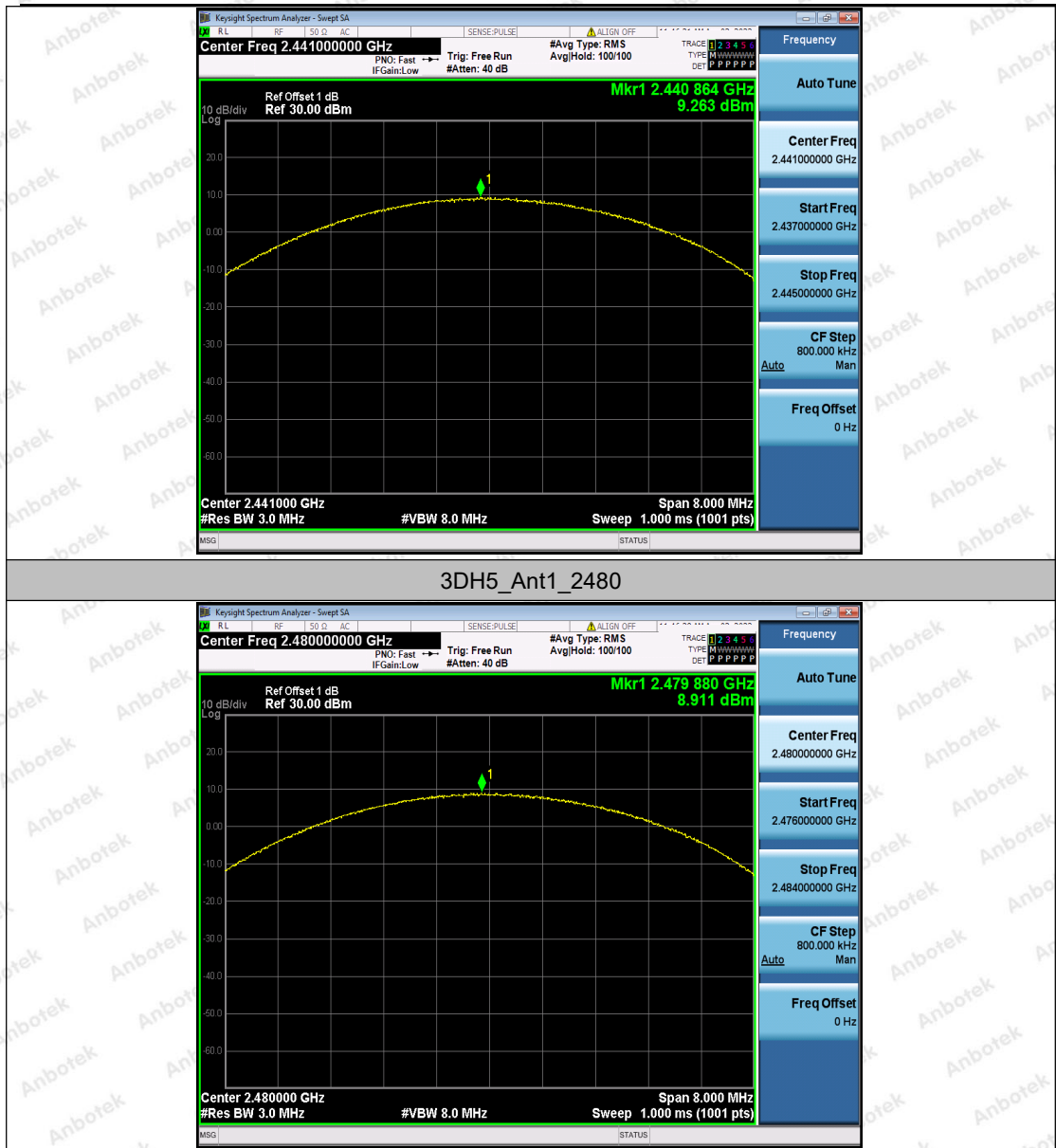


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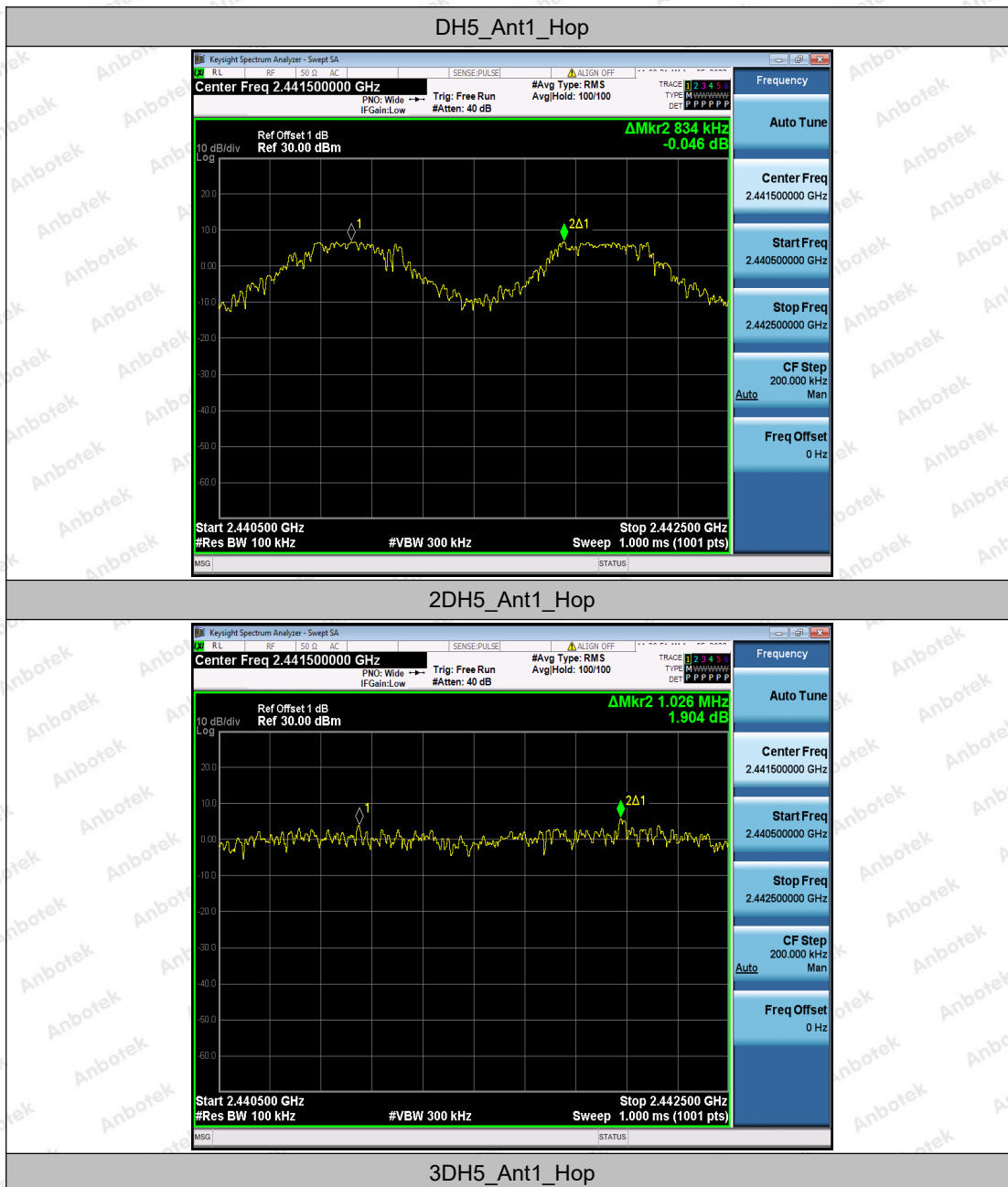
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.834	≥ 0.632	PASS
2DH5	Ant1	Hop	1.026	≥ 0.860	PASS
3DH5	Ant1	Hop	1.304	≥ 1.266	PASS

Test Graphs



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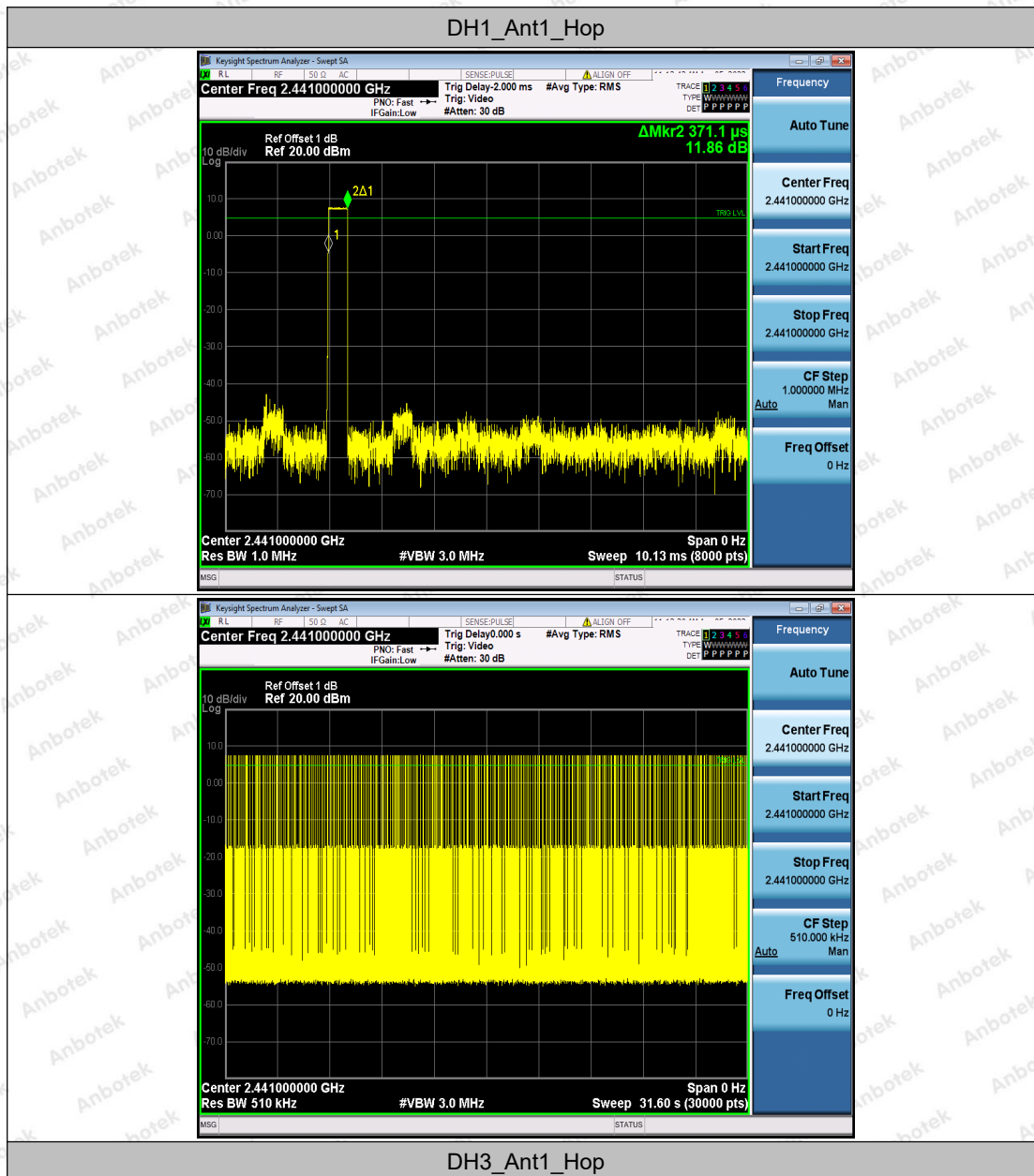
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	318	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.87	106	0.304	≤0.4	PASS
2DH1	Ant1	Hop	0.38	318	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.38	319	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	161	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS

Test Graphs

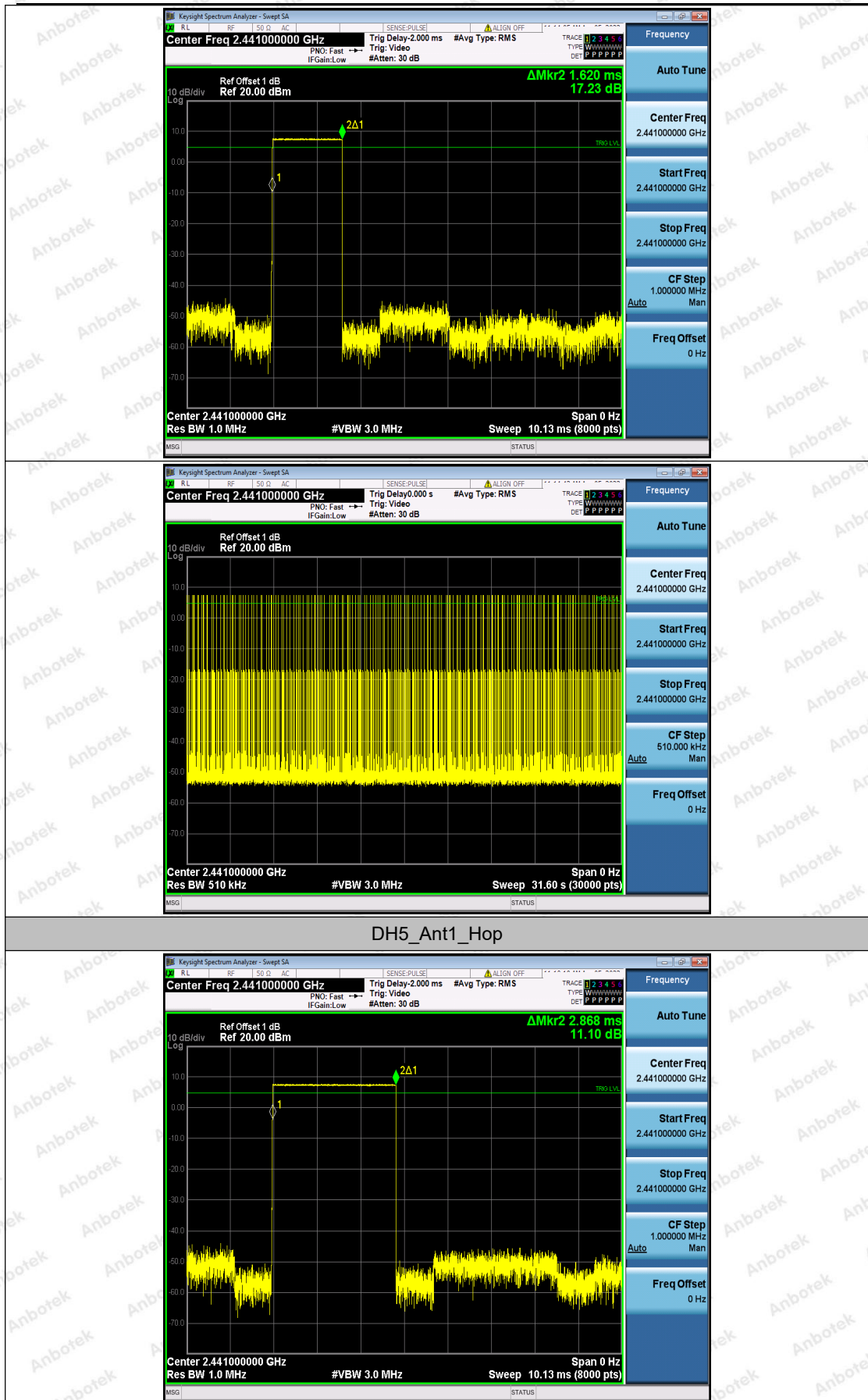


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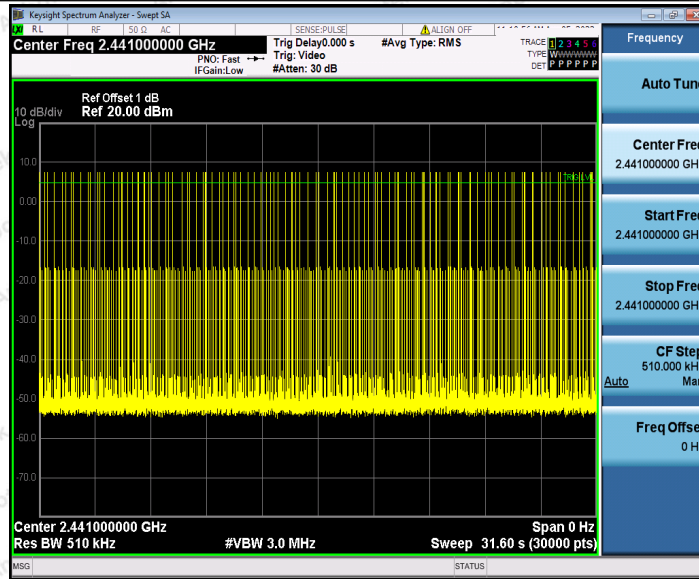
DH5_Ant1_Hop

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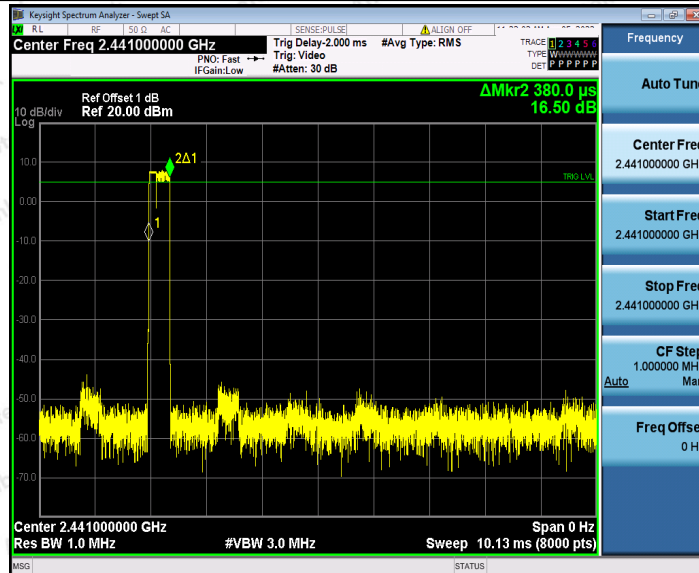
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2DH1_Ant1_Hop



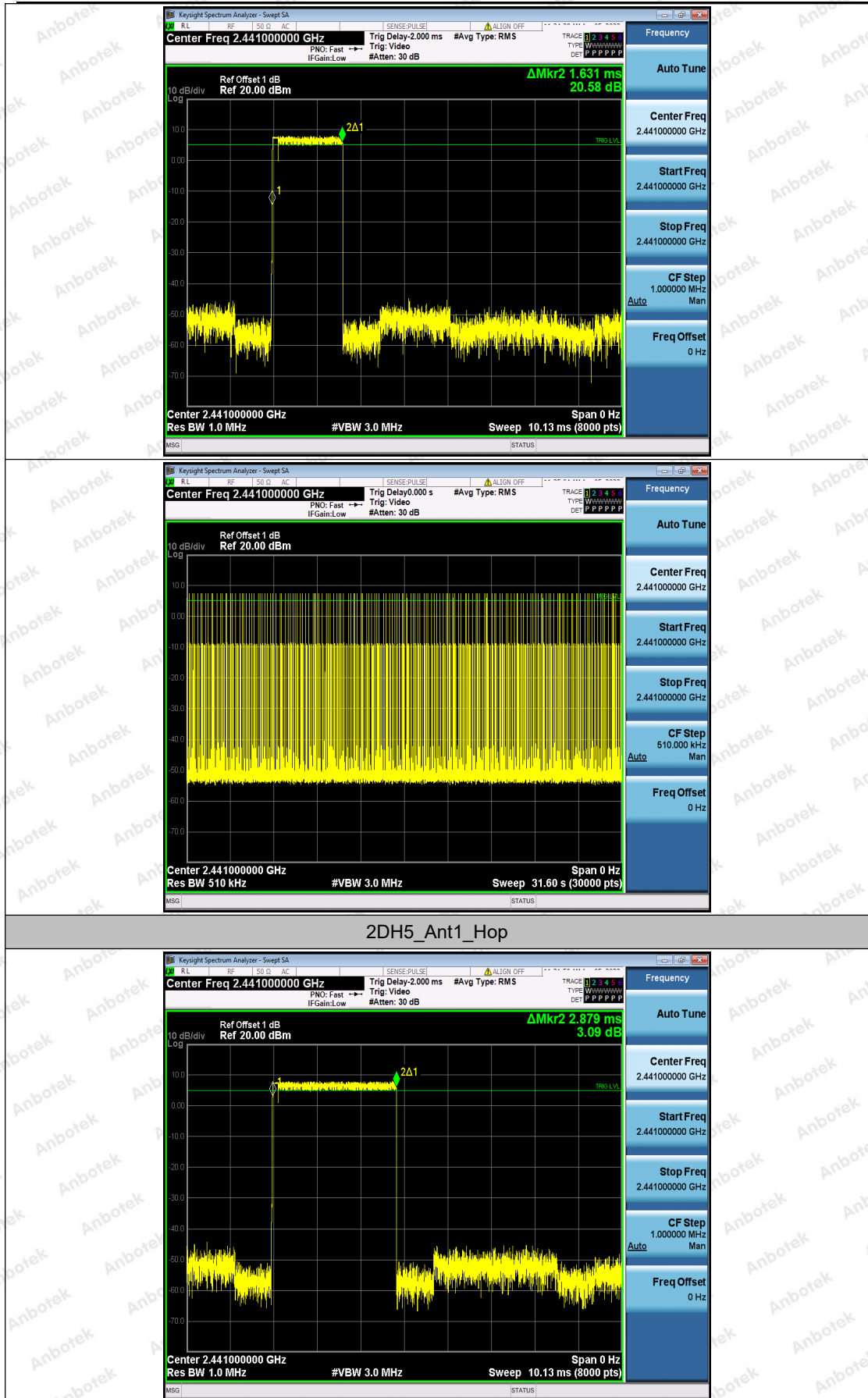
2DH3_Ant1_Hop

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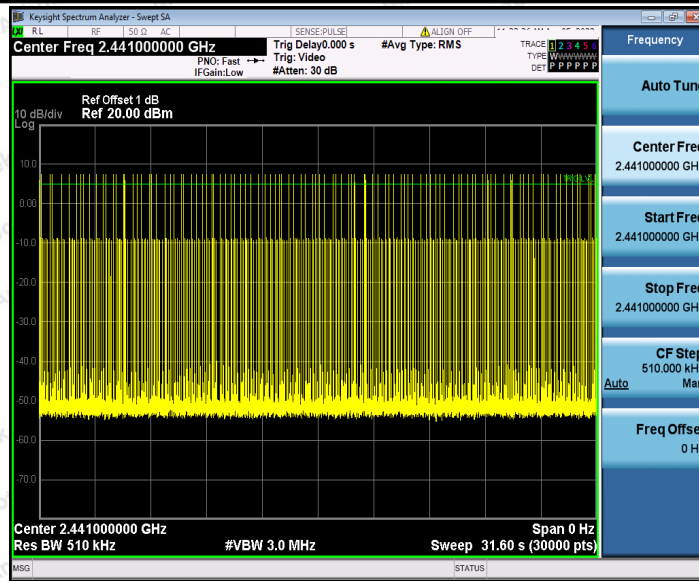


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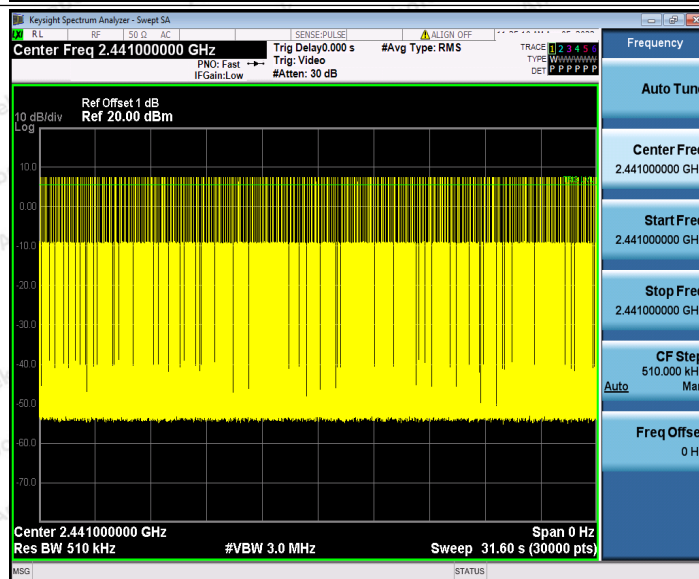
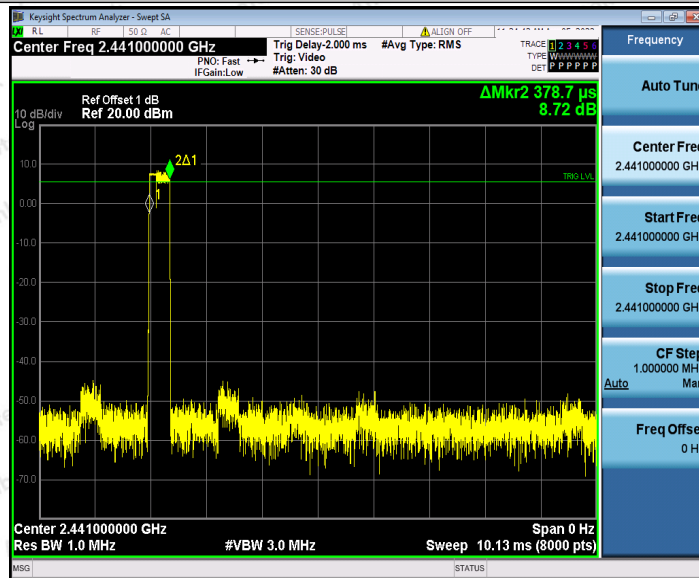
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3DH1_Ant1_Hop



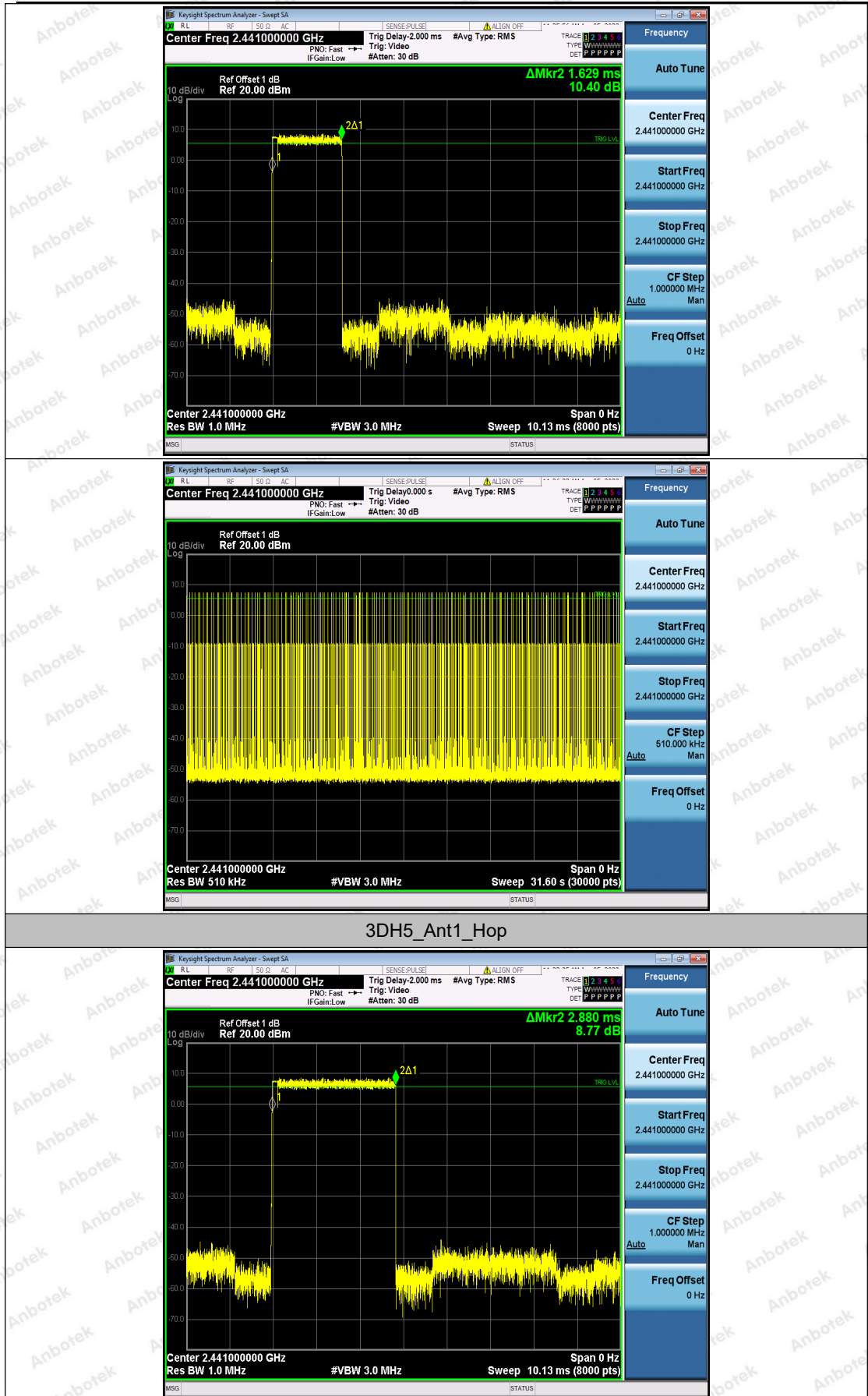
3DH3_Ant1_Hop

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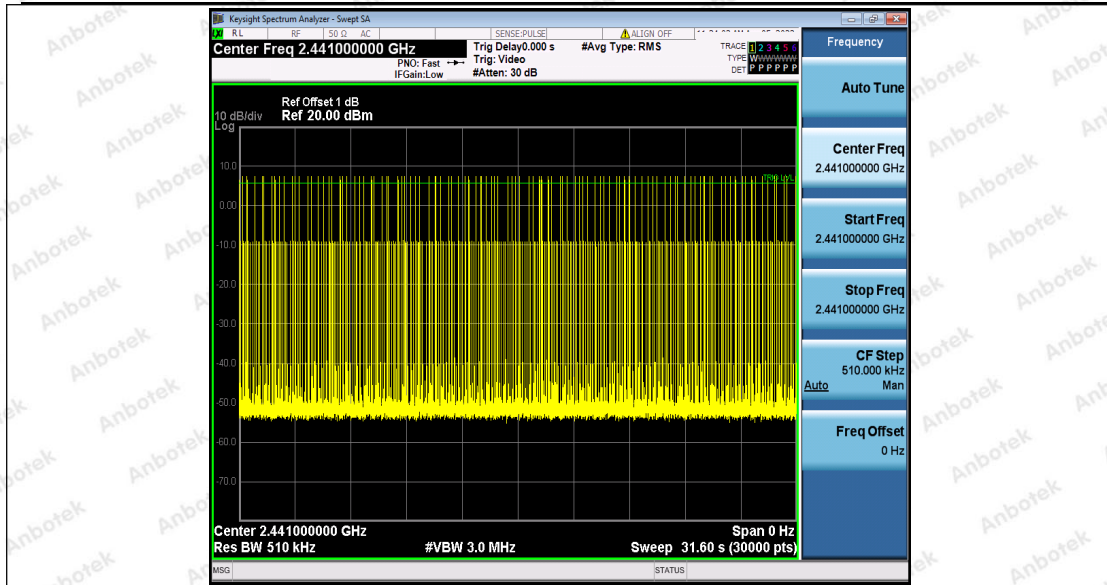


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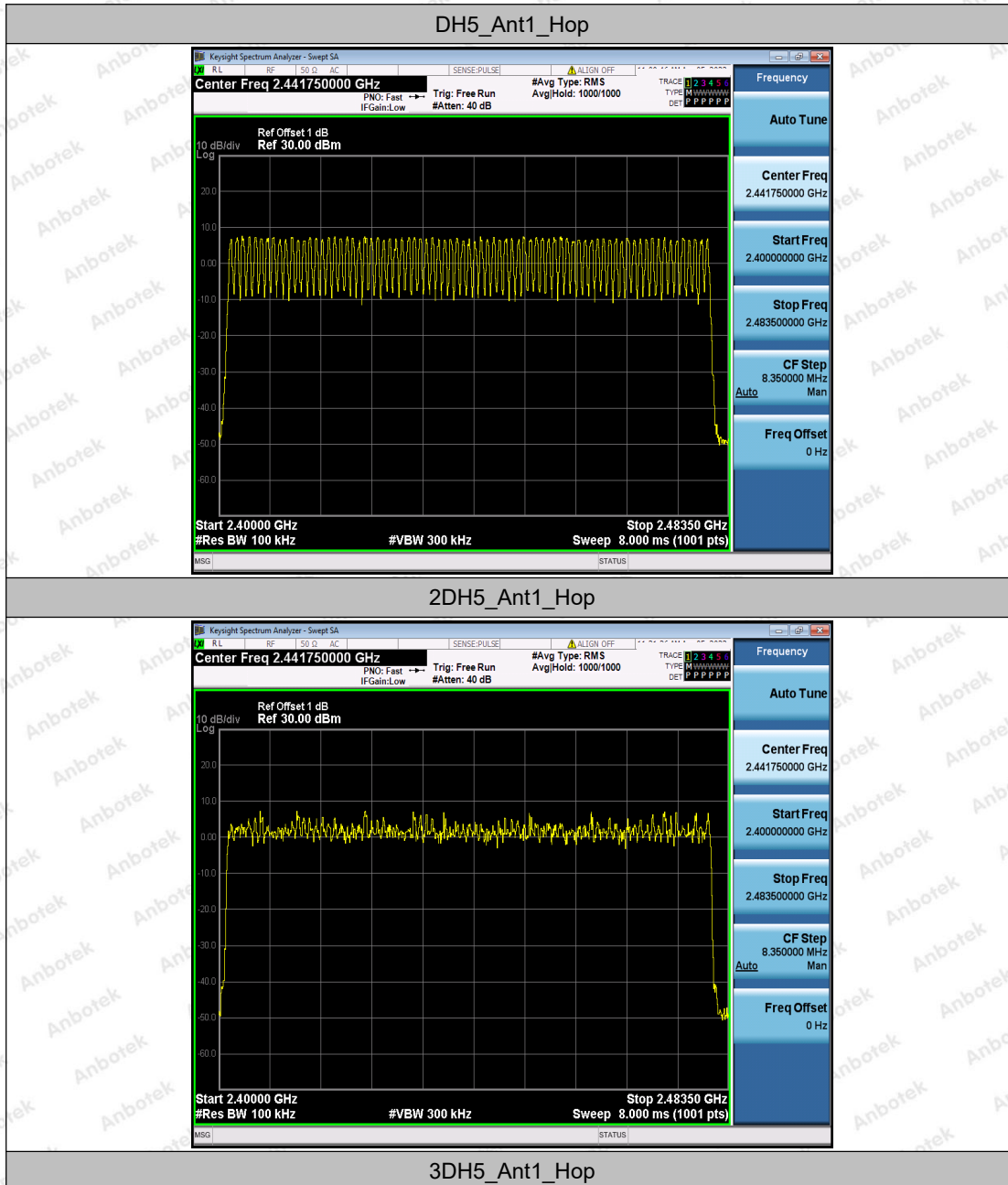
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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

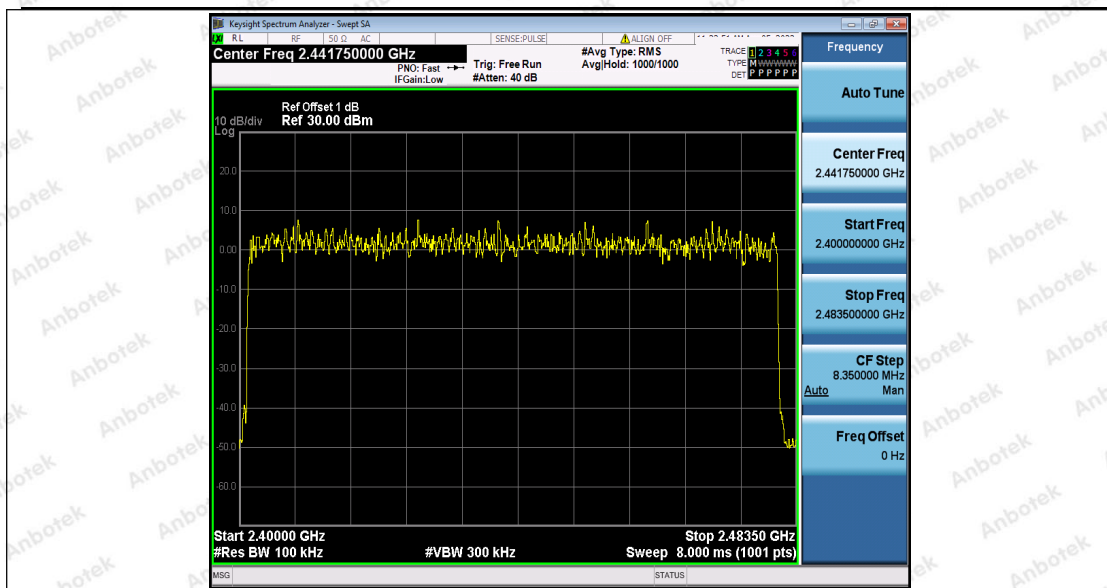


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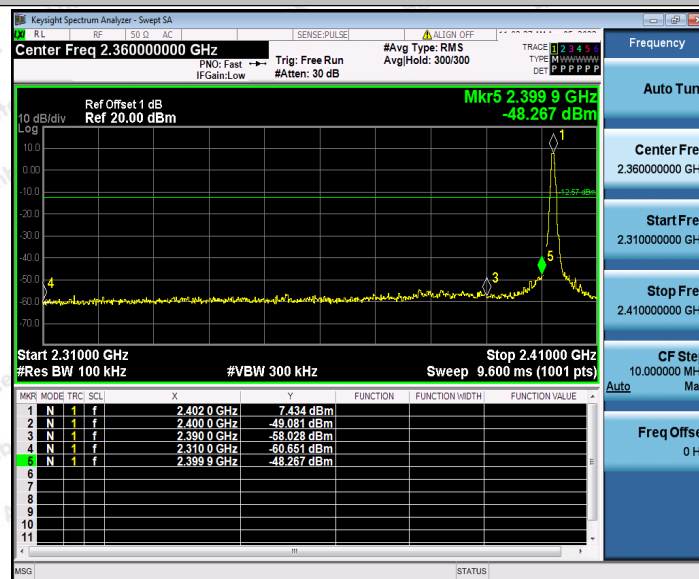
Appendix G: Band edge measurements

Test Result

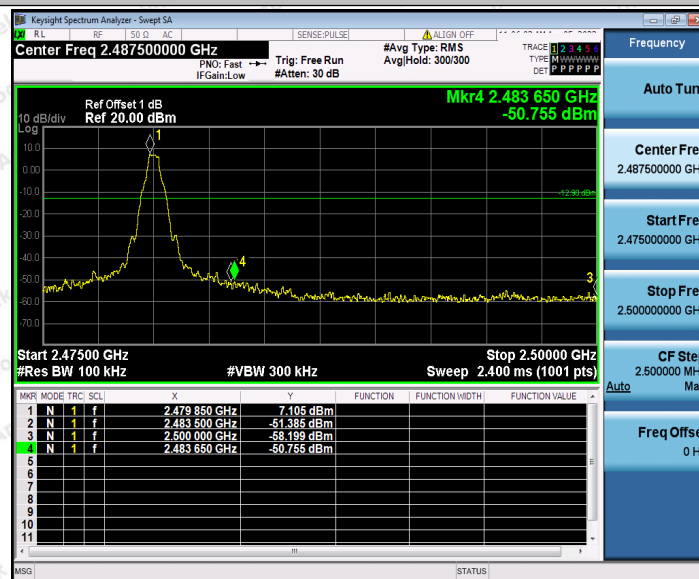
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.43	-48.27	≤-12.57	PASS
		High	2480	7.11	-50.76	≤-12.9	PASS
		Low	Hop	7.39	-53.94	≤-12.61	PASS
		High	Hop	6.80	-60.46	≤-13.2	PASS
2DH5	Ant1	Low	2402	6.28	-47.38	≤-13.72	PASS
		High	2480	6.80	-51.81	≤-13.2	PASS
		Low	Hop	3.91	-55.56	≤-16.09	PASS
		High	Hop	3.88	-60.81	≤-16.12	PASS
3DH5	Ant1	Low	2402	7.63	-48.93	≤-12.37	PASS
		High	2480	7.15	-51.81	≤-12.85	PASS
		Low	Hop	6.35	-55.8	≤-13.65	PASS
		High	Hop	6.83	-59.76	≤-13.17	PASS

Test Graphs

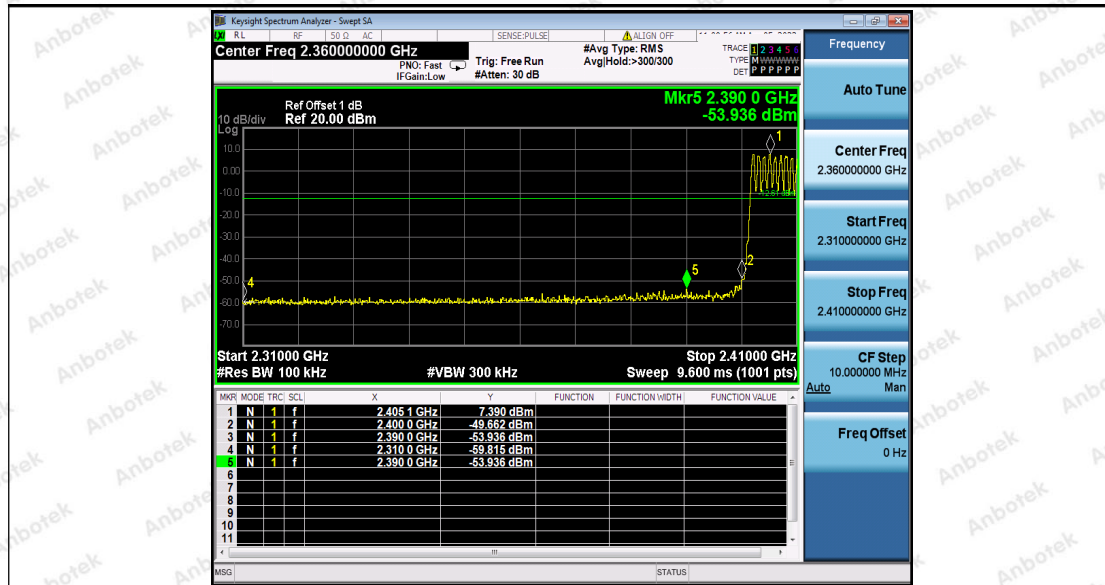
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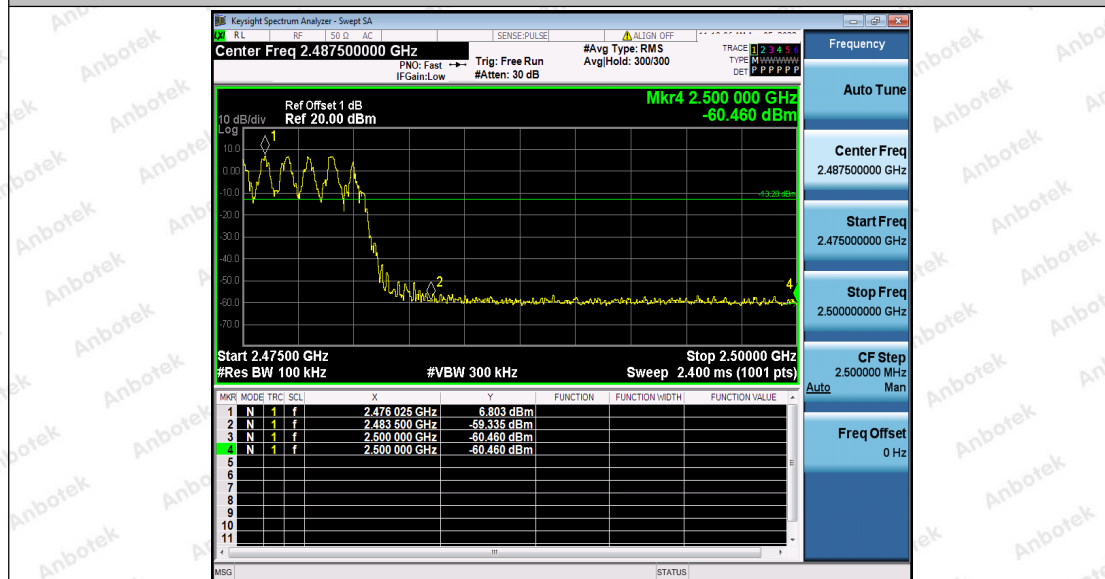
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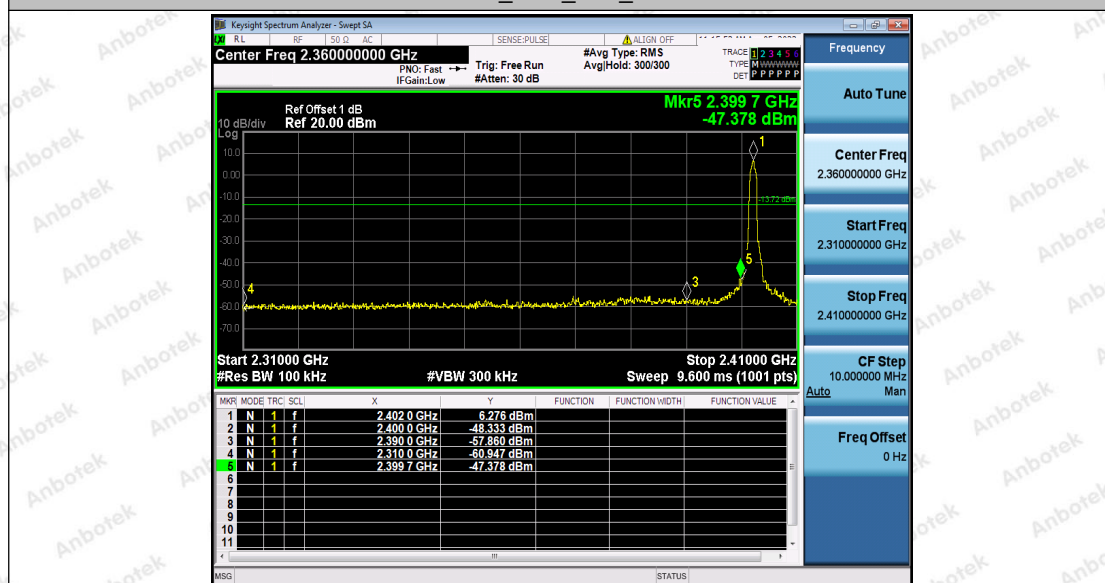
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



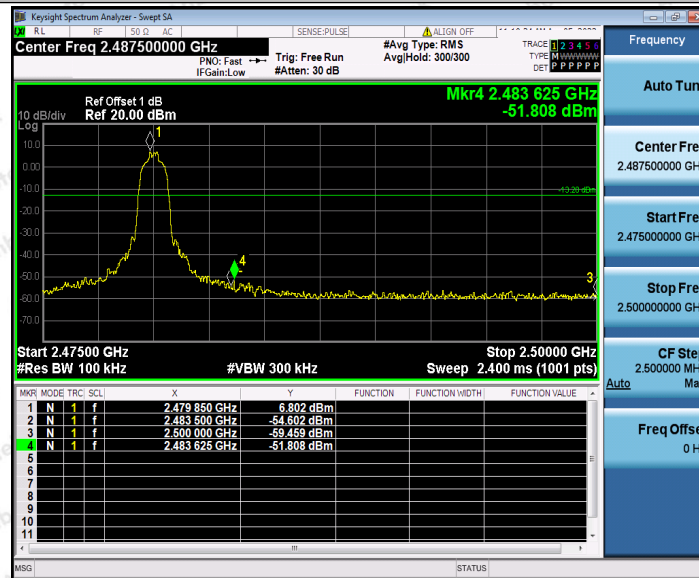
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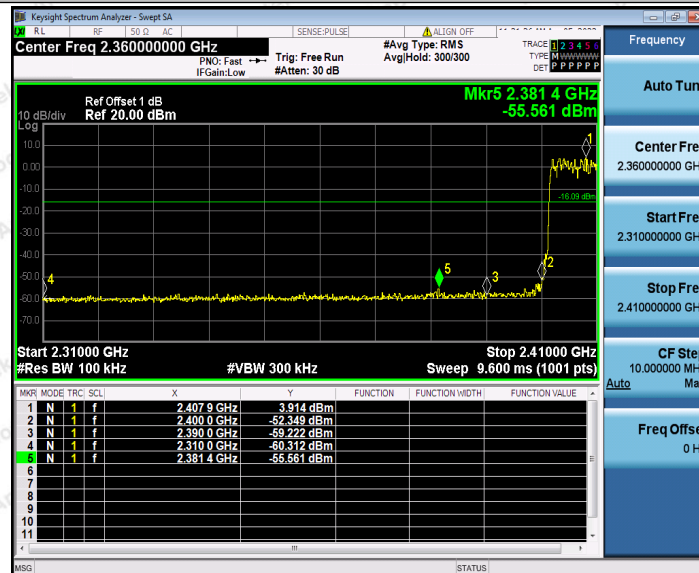
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



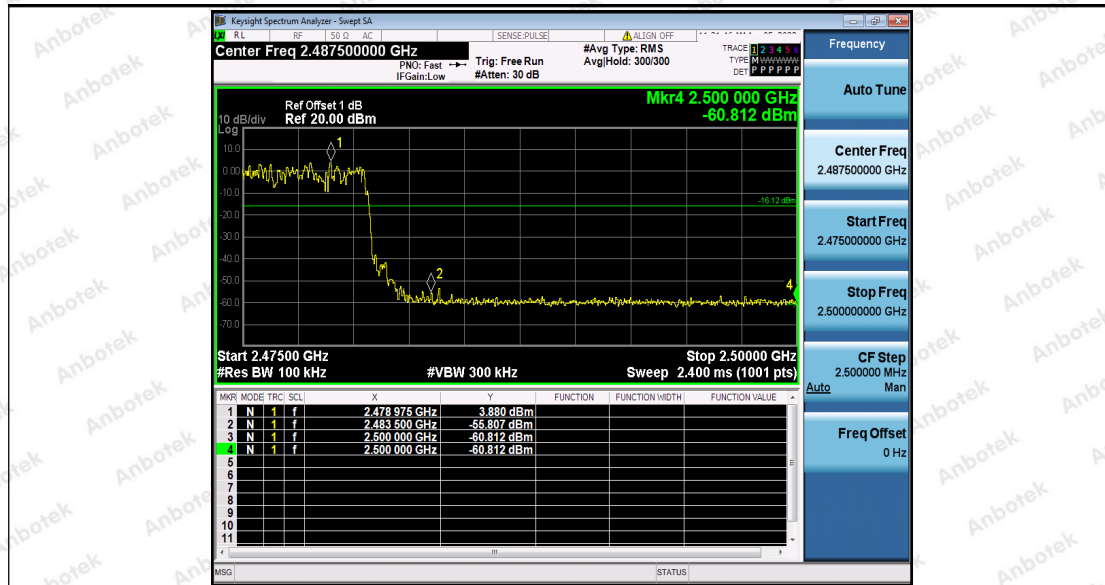
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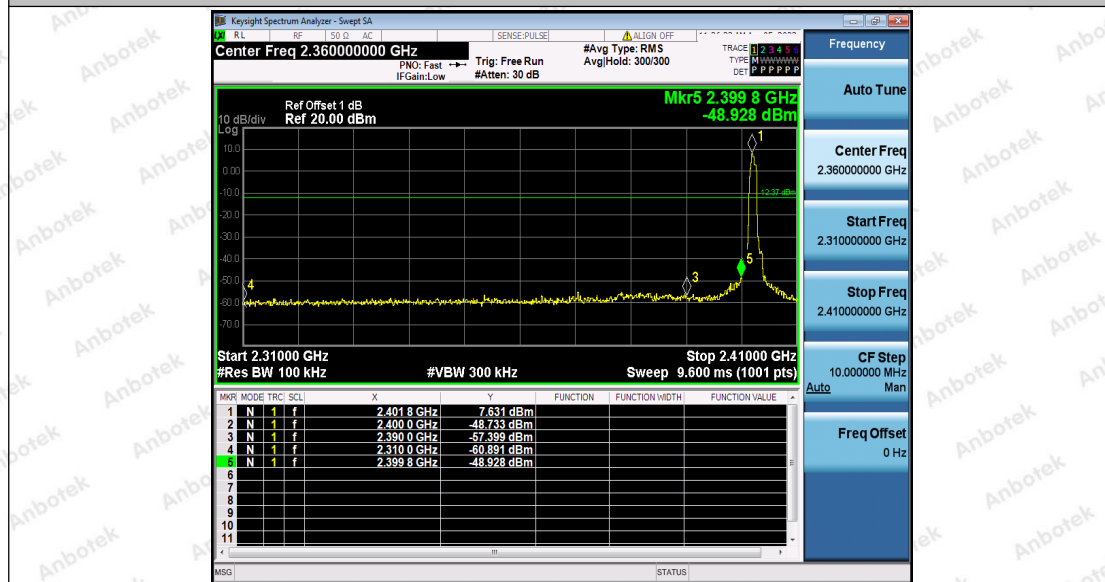
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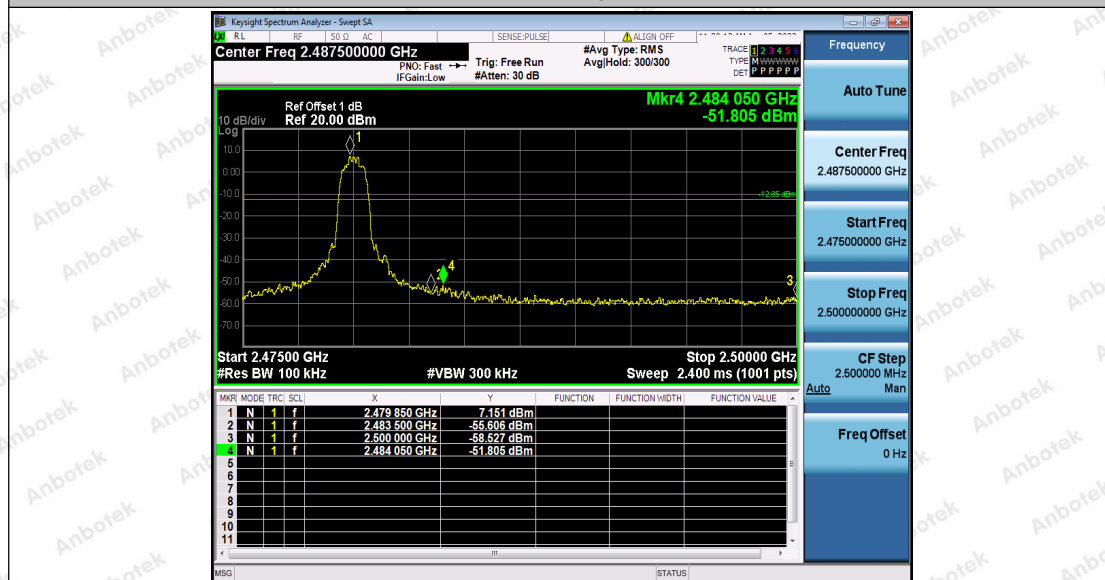
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

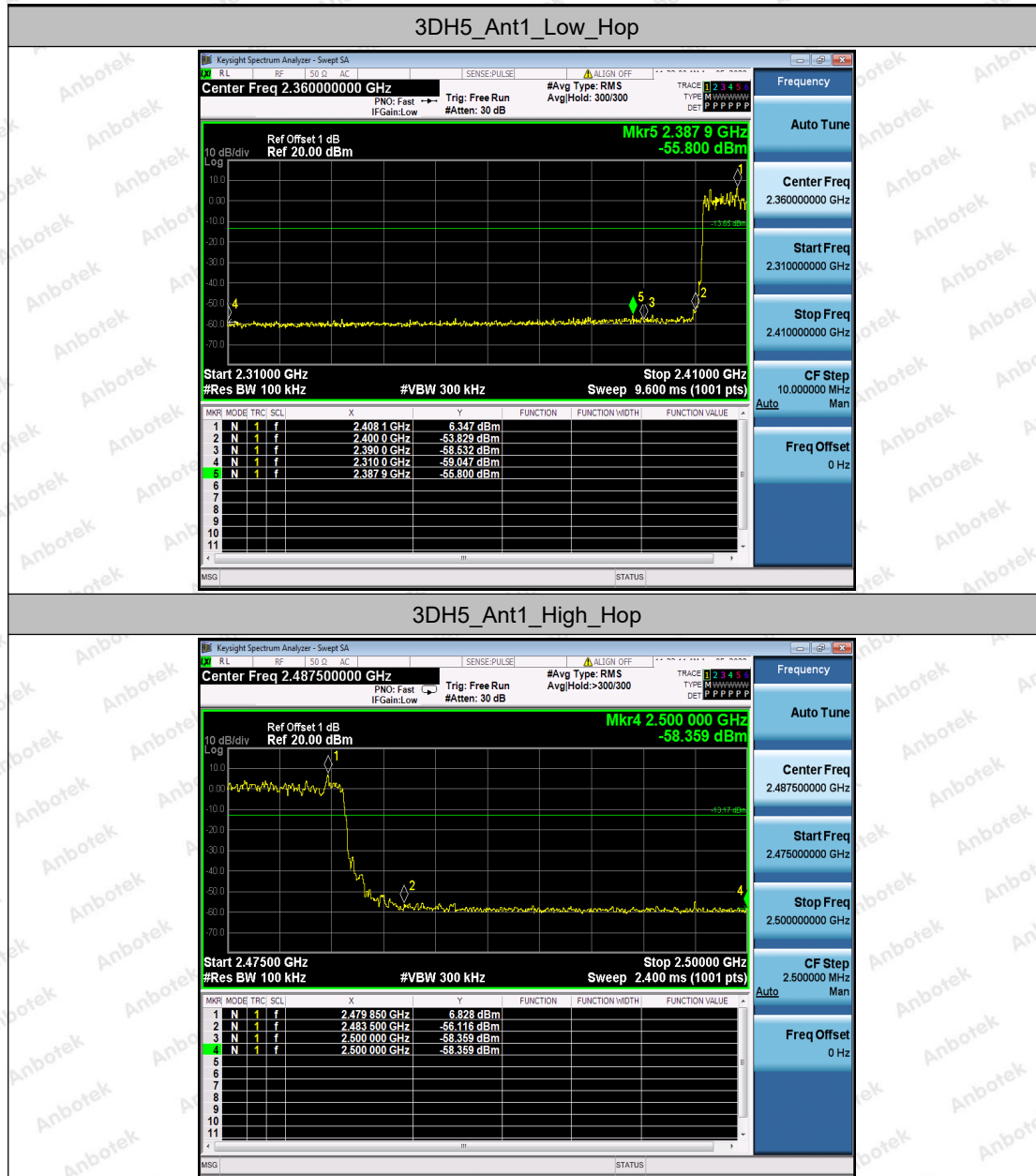


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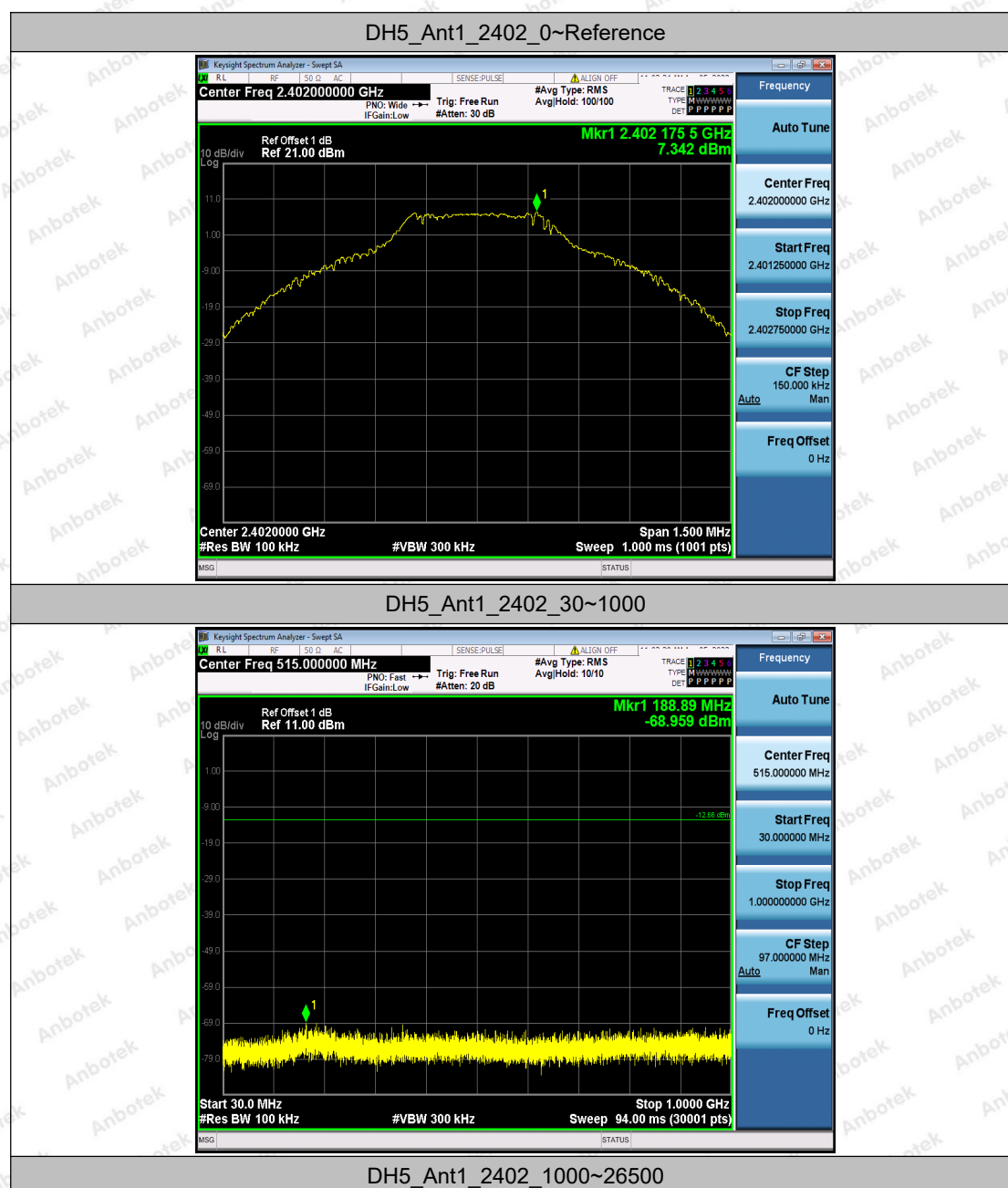
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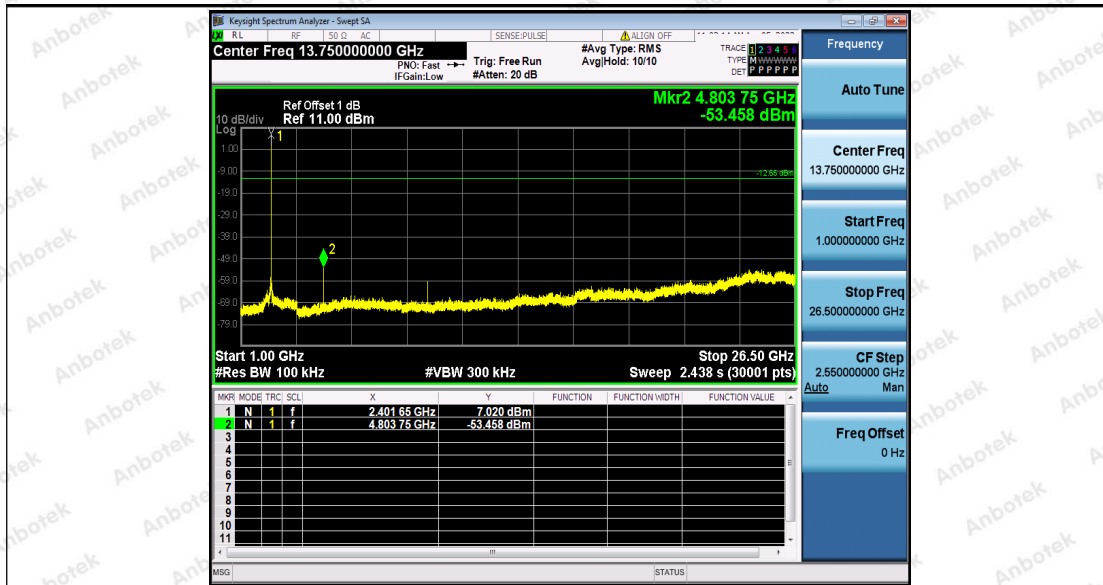
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.34	7.34	---	PASS
			30~1000	7.34	-68.96	≤-12.66	PASS
			1000~26500	7.34	-53.46	≤-12.66	PASS
		2441	Reference	7.45	7.45	---	PASS
			30~1000	7.45	-69.43	≤-12.56	PASS
			1000~26500	7.45	-53.72	≤-12.56	PASS
		2480	Reference	7.08	7.08	---	PASS
			30~1000	7.08	-69.33	≤-12.92	PASS
			1000~26500	7.08	-52.35	≤-12.92	PASS
2DH5	Ant1	2402	Reference	6.81	6.81	---	PASS
			30~1000	6.81	-69.81	≤-13.19	PASS
			1000~26500	6.81	-53.8	≤-13.19	PASS
		2441	Reference	6.91	6.91	---	PASS
			30~1000	6.91	-69.33	≤-13.09	PASS
			1000~26500	6.91	-53.29	≤-13.09	PASS
		2480	Reference	6.20	6.20	---	PASS
			30~1000	6.20	-69.3	≤-13.81	PASS
			1000~26500	6.20	-53.96	≤-13.81	PASS
3DH5	Ant1	2402	Reference	7.38	7.38	---	PASS
			30~1000	7.38	-69.7	≤-12.62	PASS
			1000~26500	7.38	-53.57	≤-12.62	PASS
		2441	Reference	7.41	7.41	---	PASS
			30~1000	7.41	-69.59	≤-12.59	PASS
			1000~26500	7.41	-53.85	≤-12.59	PASS
		2480	Reference	7.11	7.11	---	PASS
			30~1000	7.11	-69.67	≤-12.89	PASS
			1000~26500	7.11	-53.92	≤-12.89	PASS

Test Graphs

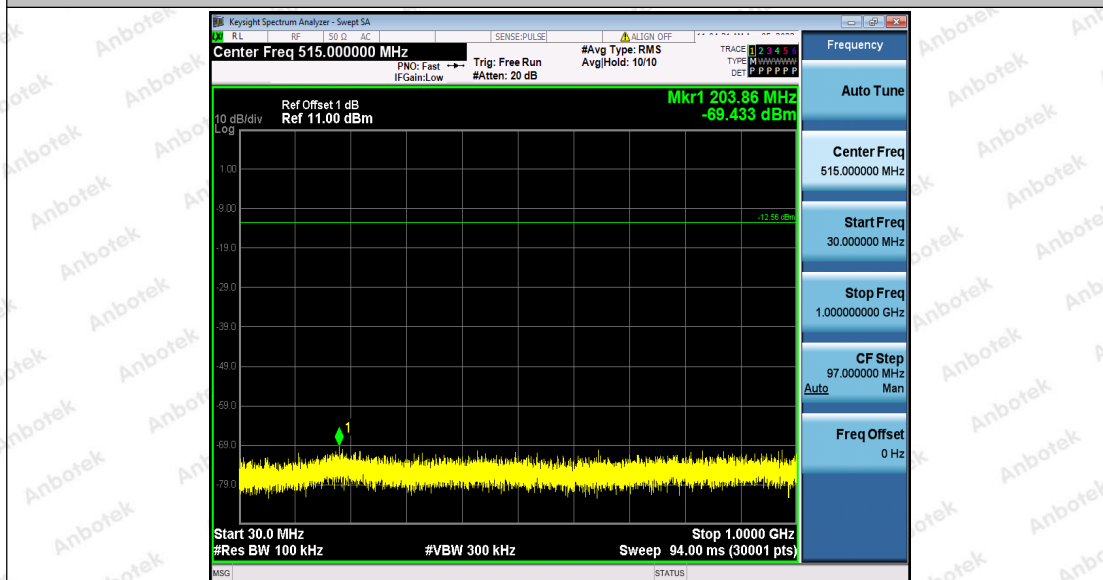




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



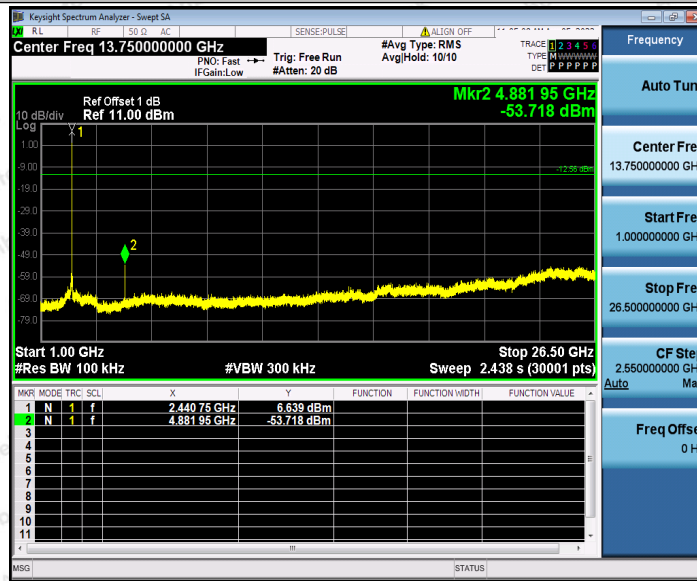
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



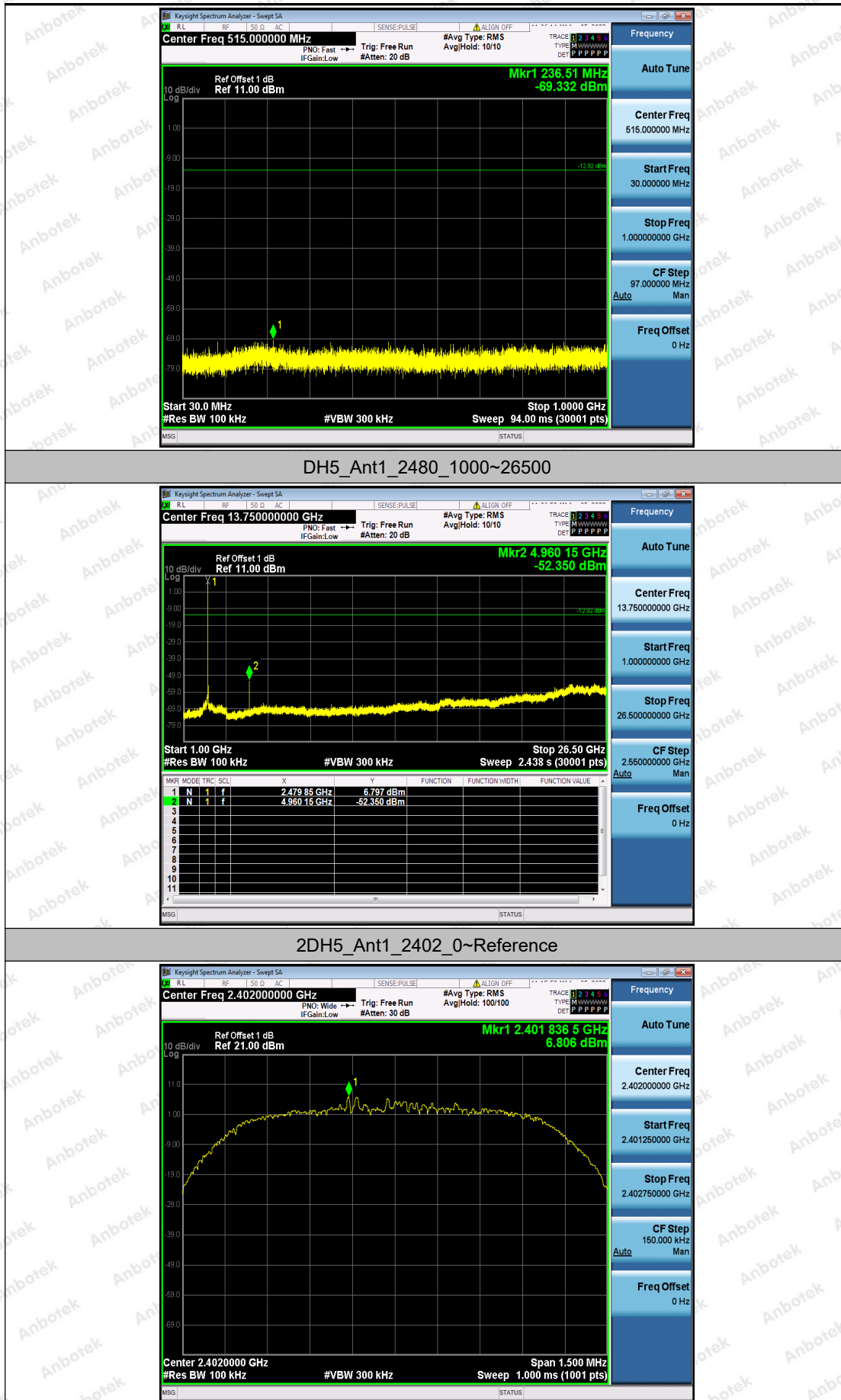
DH5_Ant1_2480_30~1000

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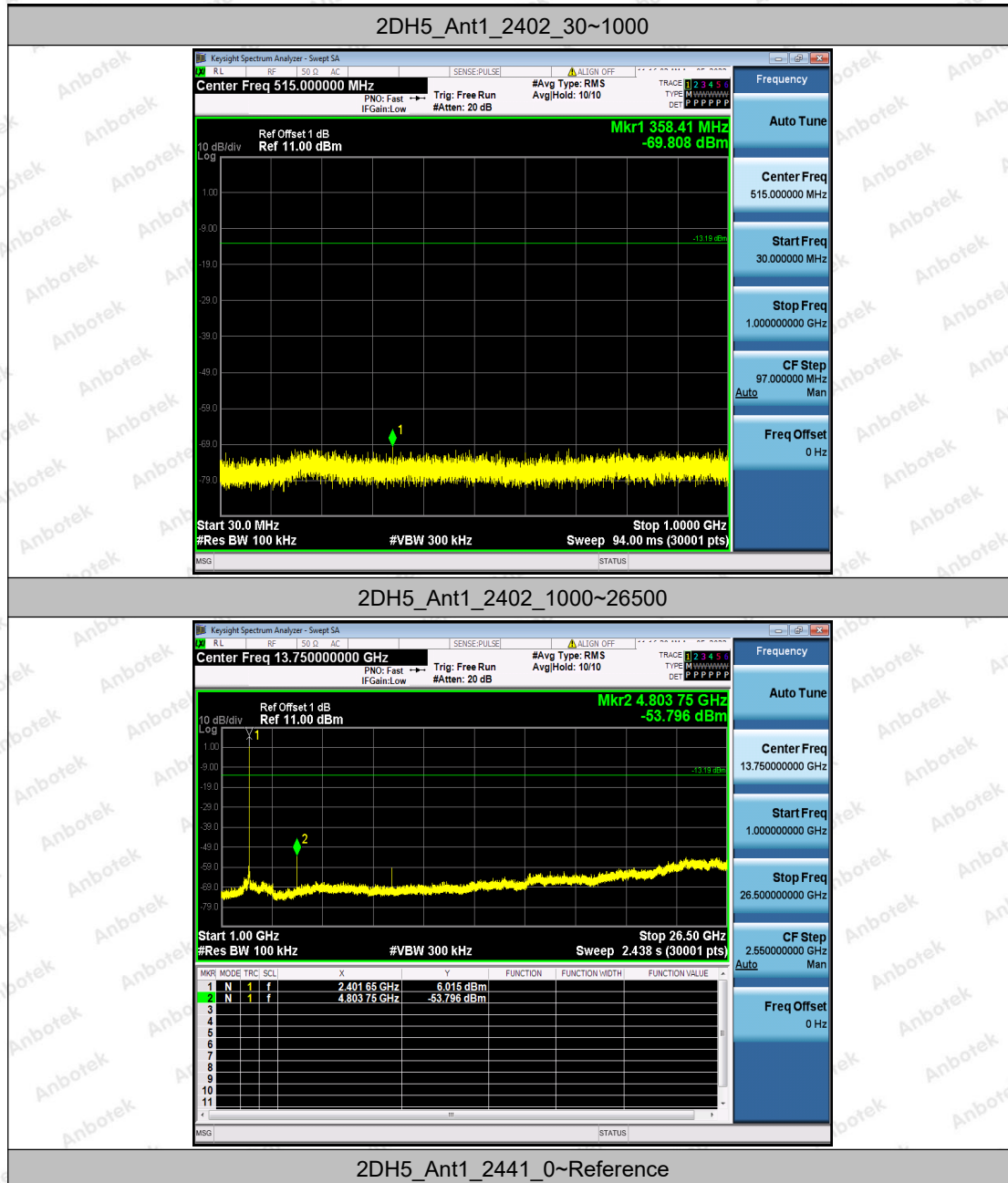


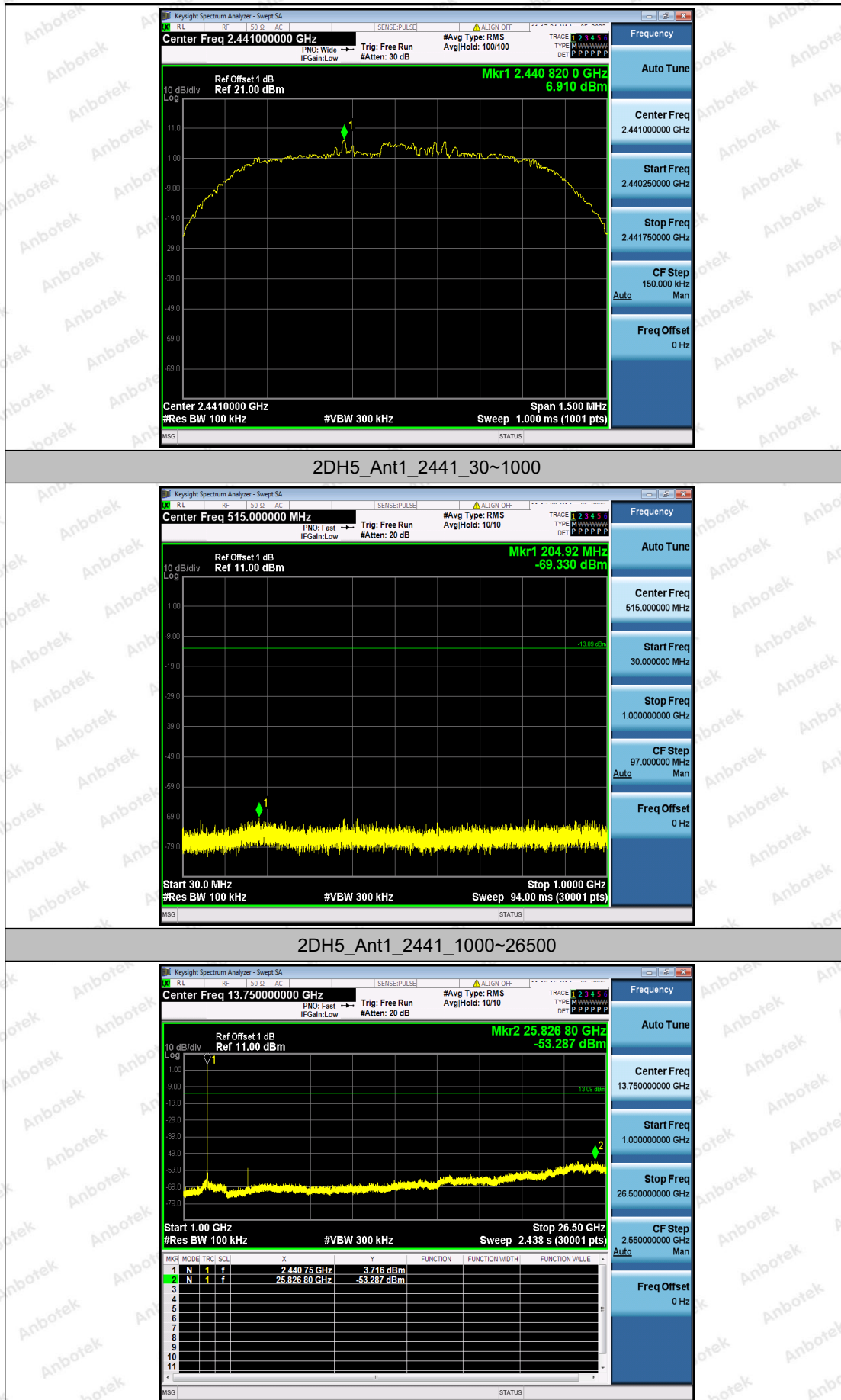
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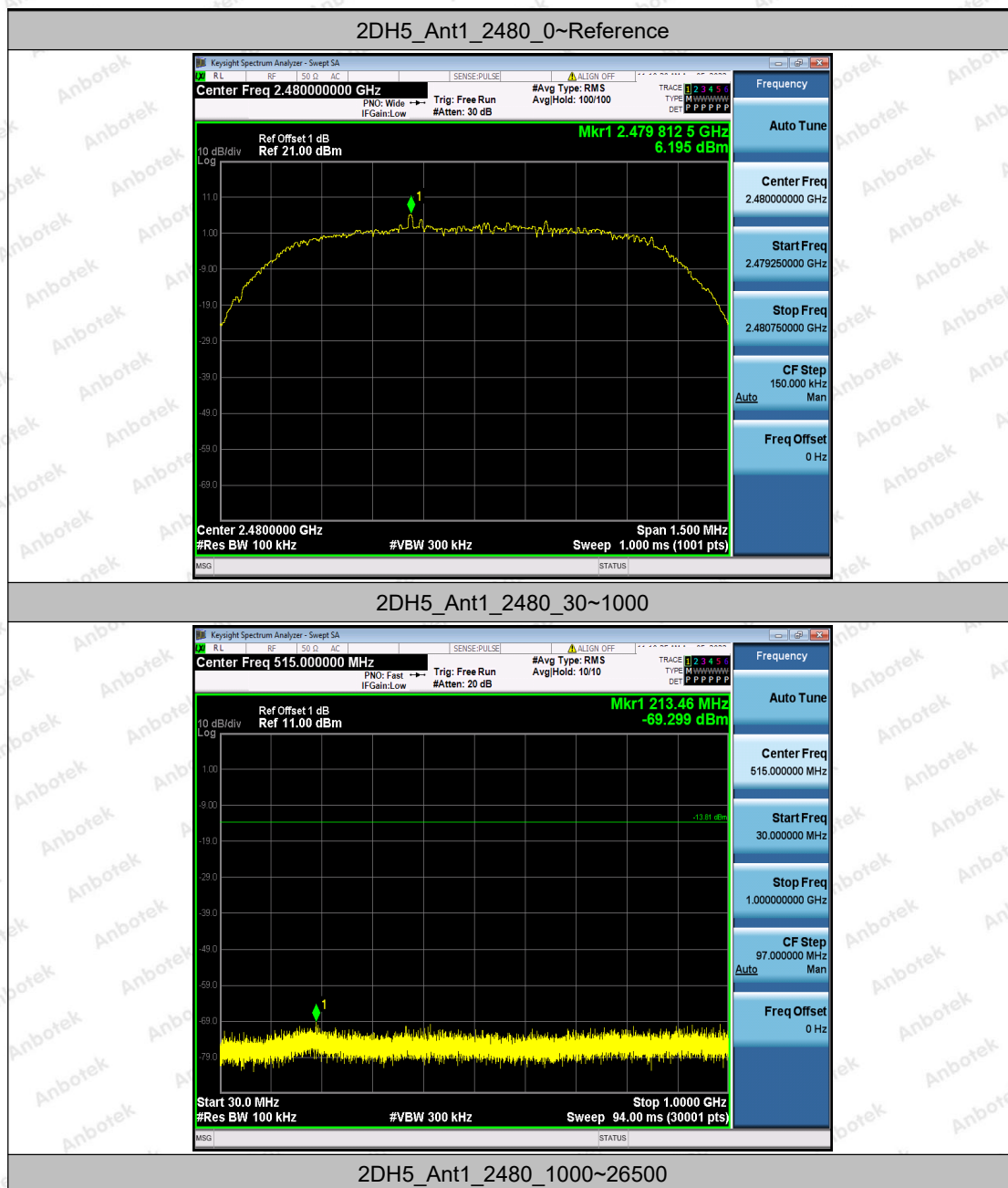


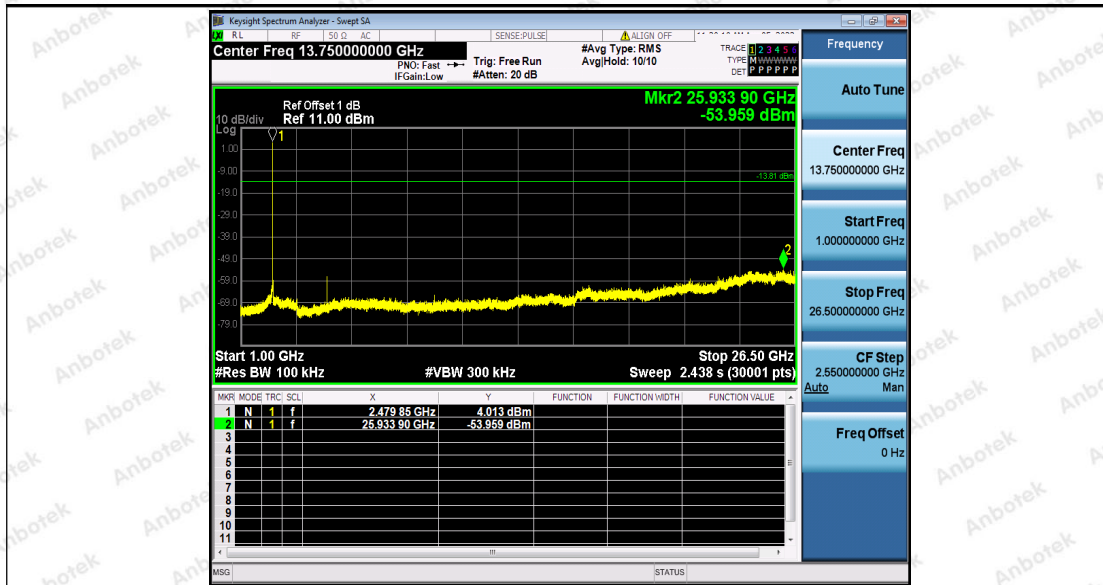
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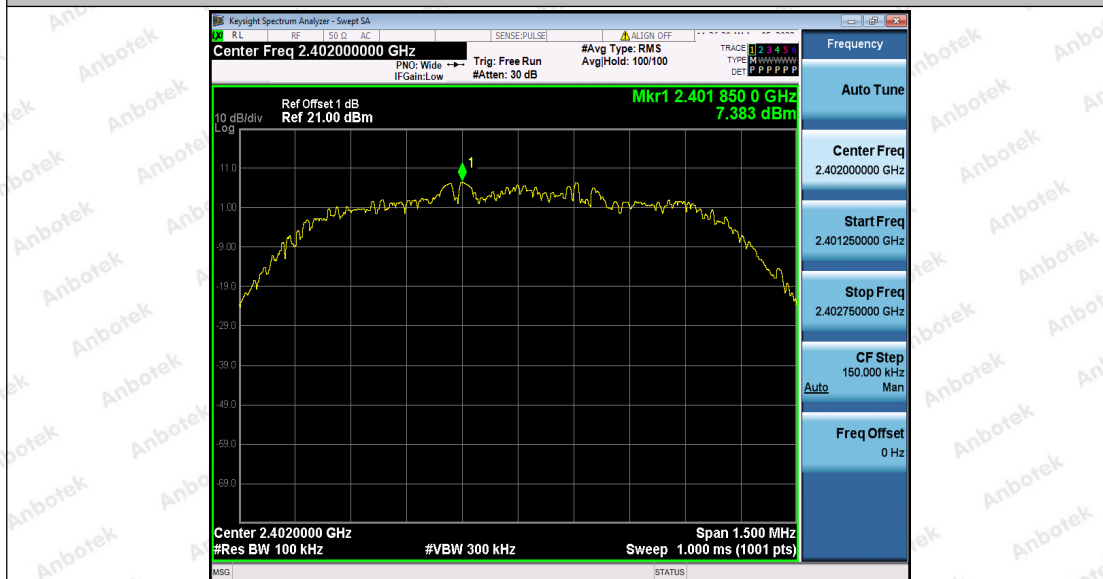
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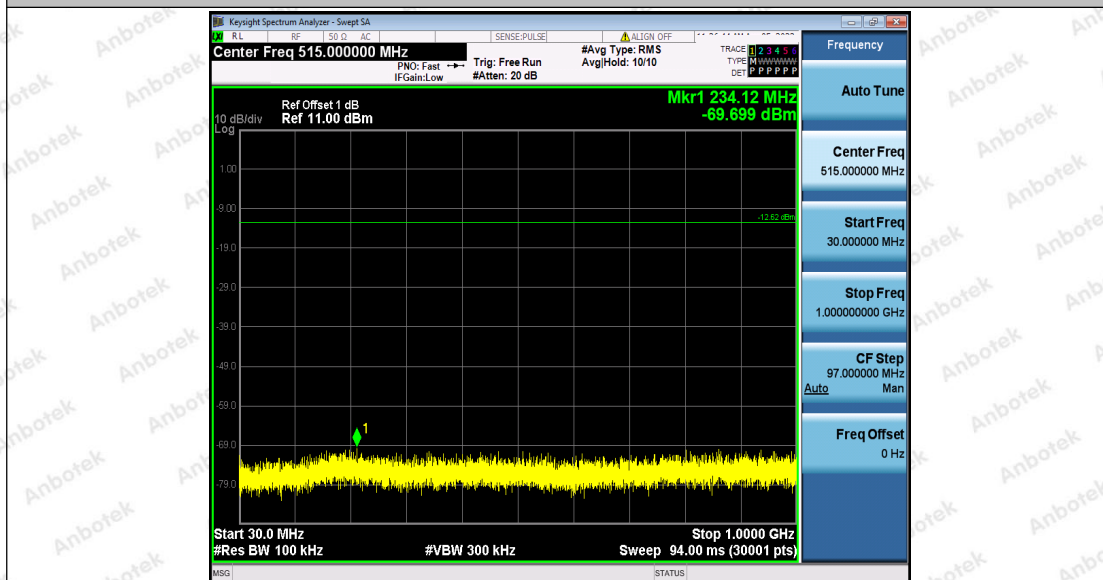




3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

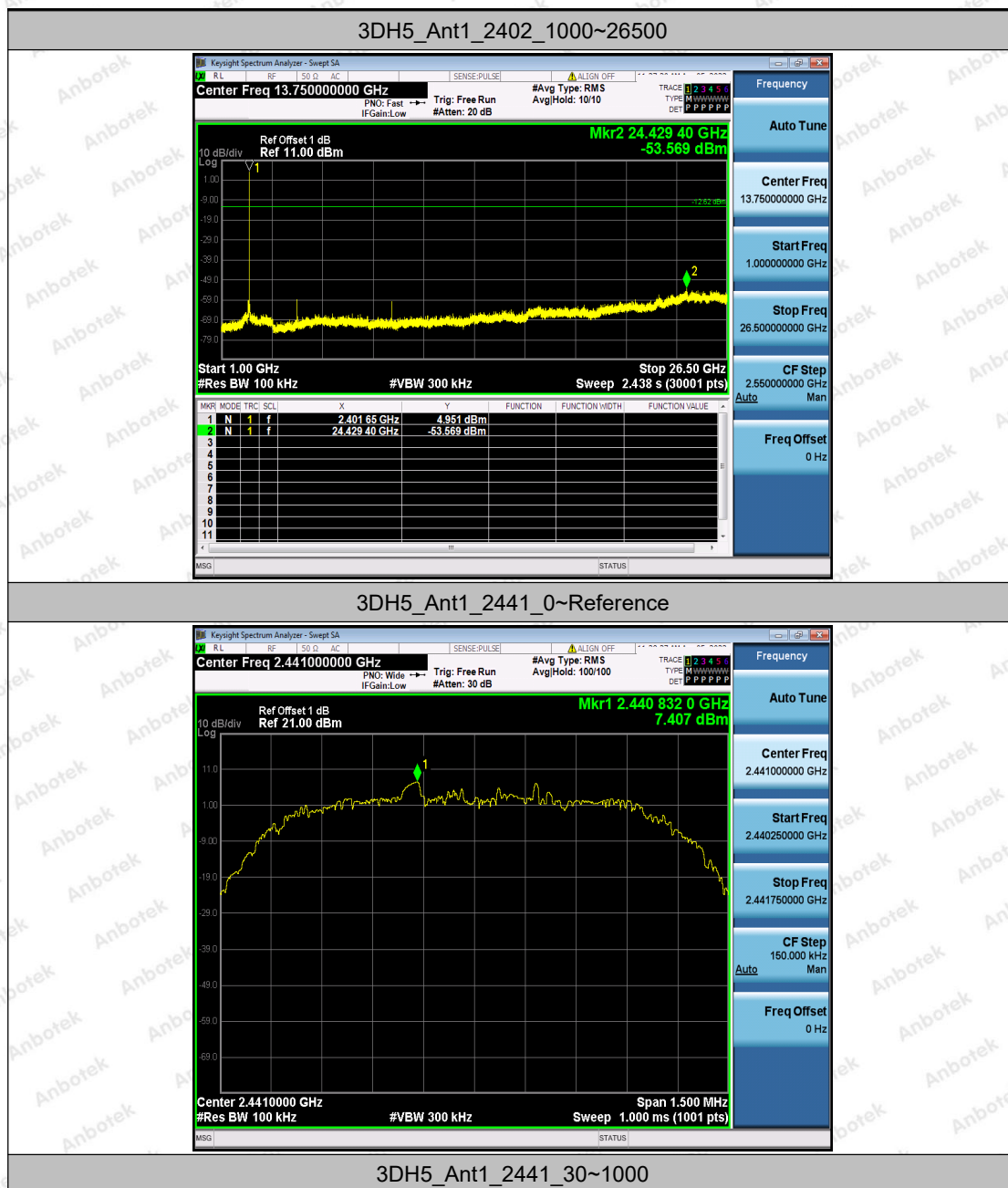


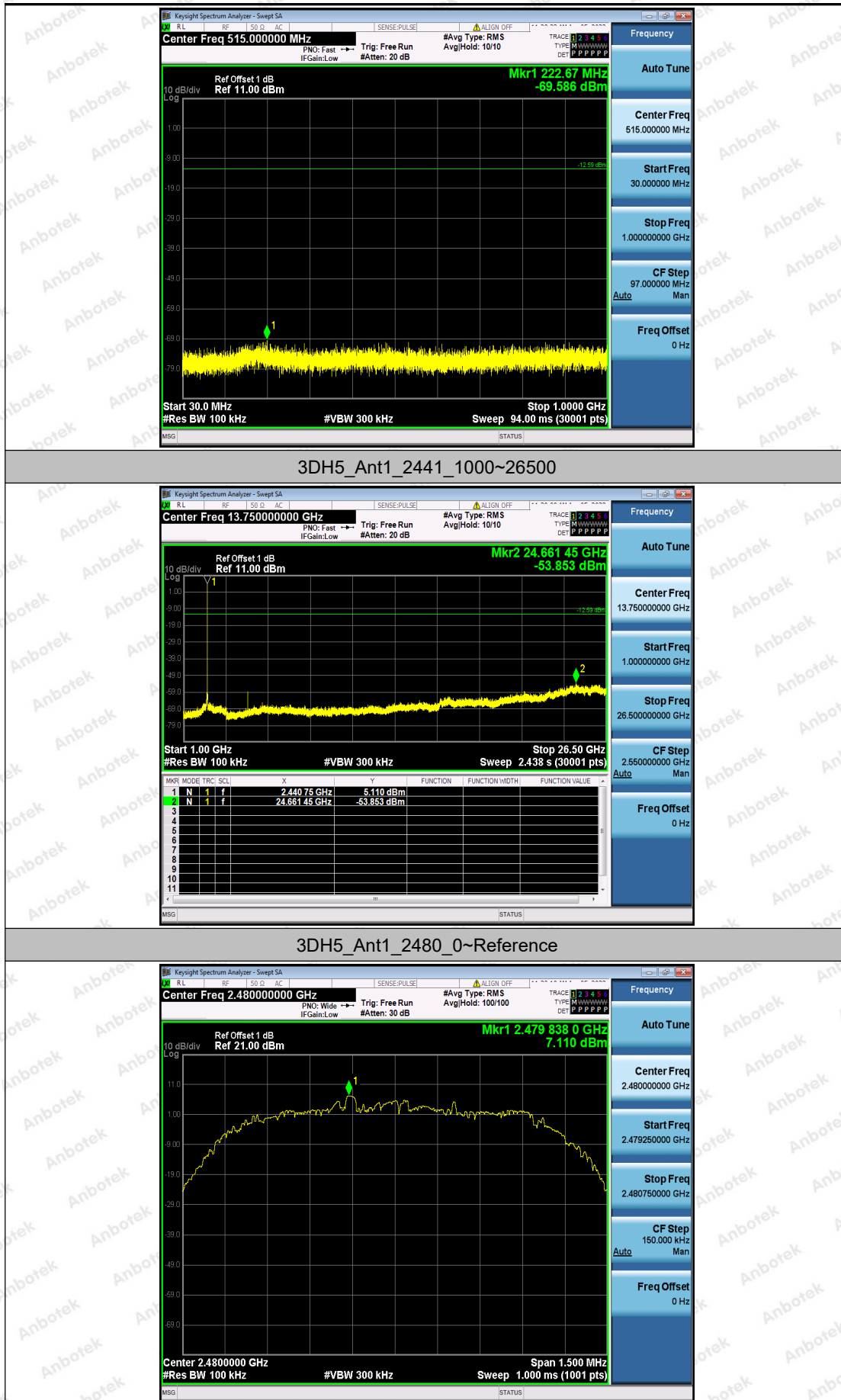
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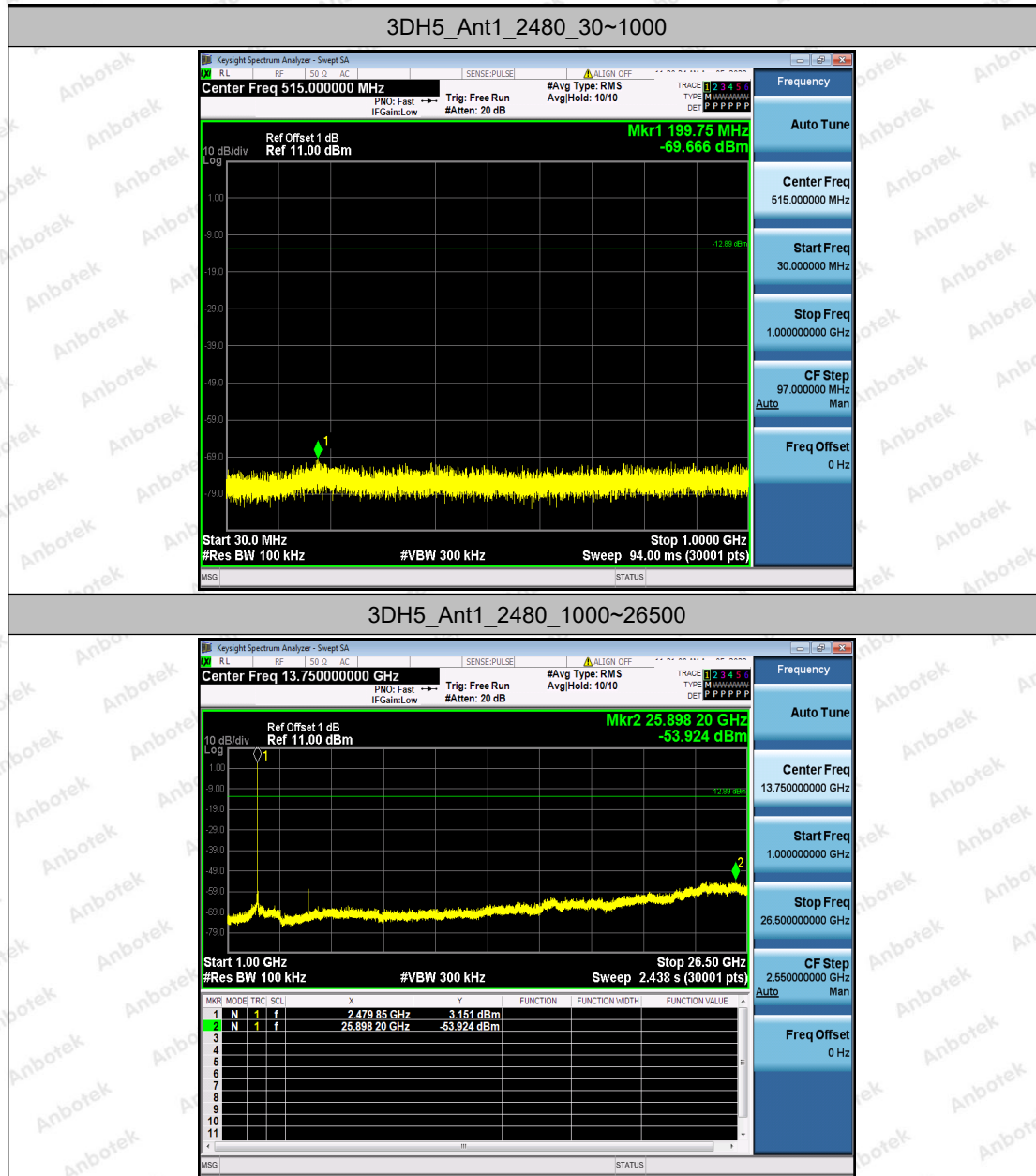


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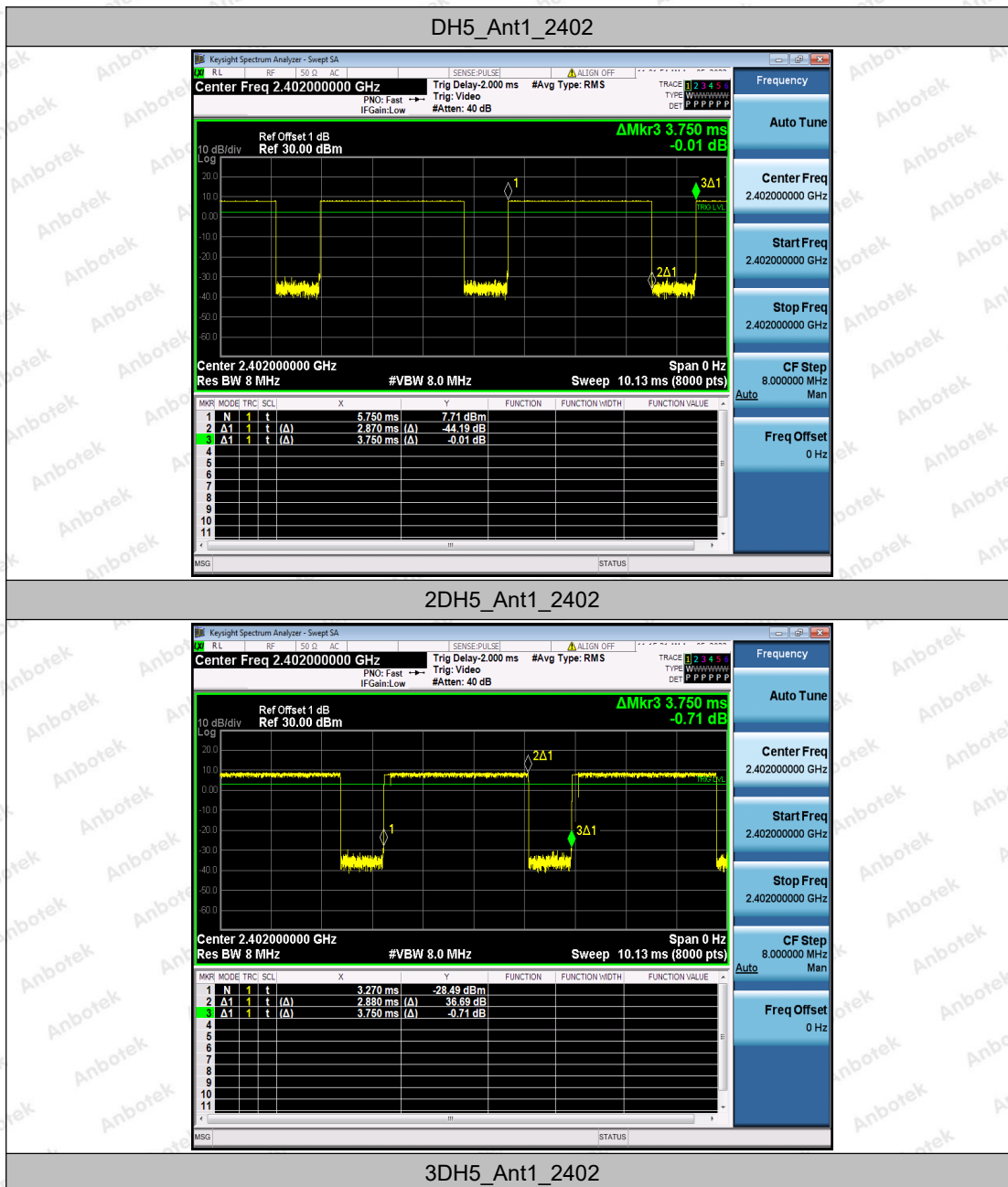
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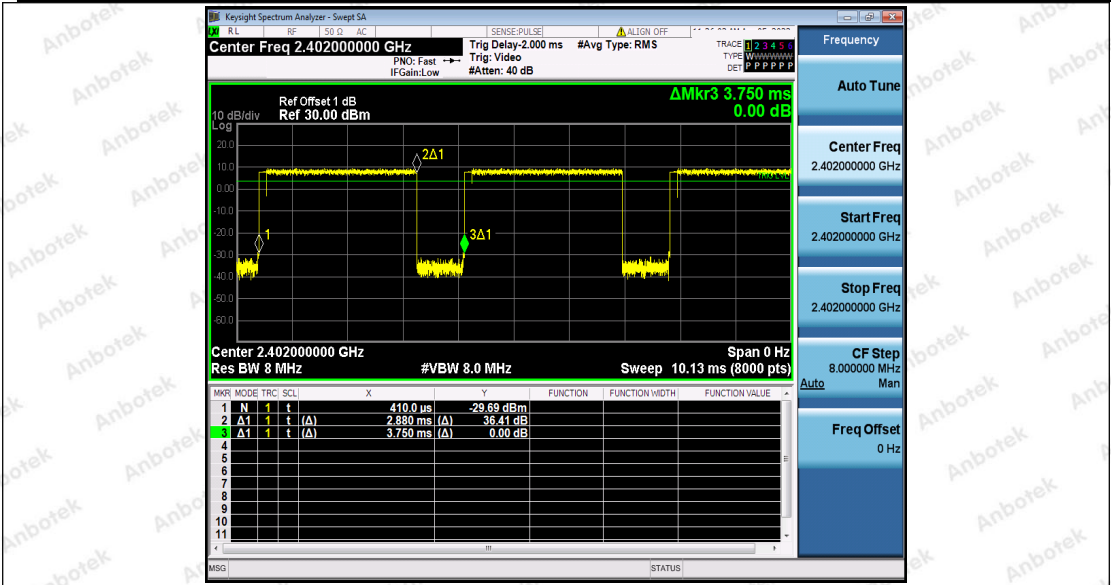
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---