

Appendix Test Data

Report No.:	18220WC20116201	Test Sample No.:	1-2-2
Start Test Date:	2022.5.31	Finish Test Date:	2022.6.6
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	Relative Humidity:	56.2 %
Pressure:	1012 hPa		

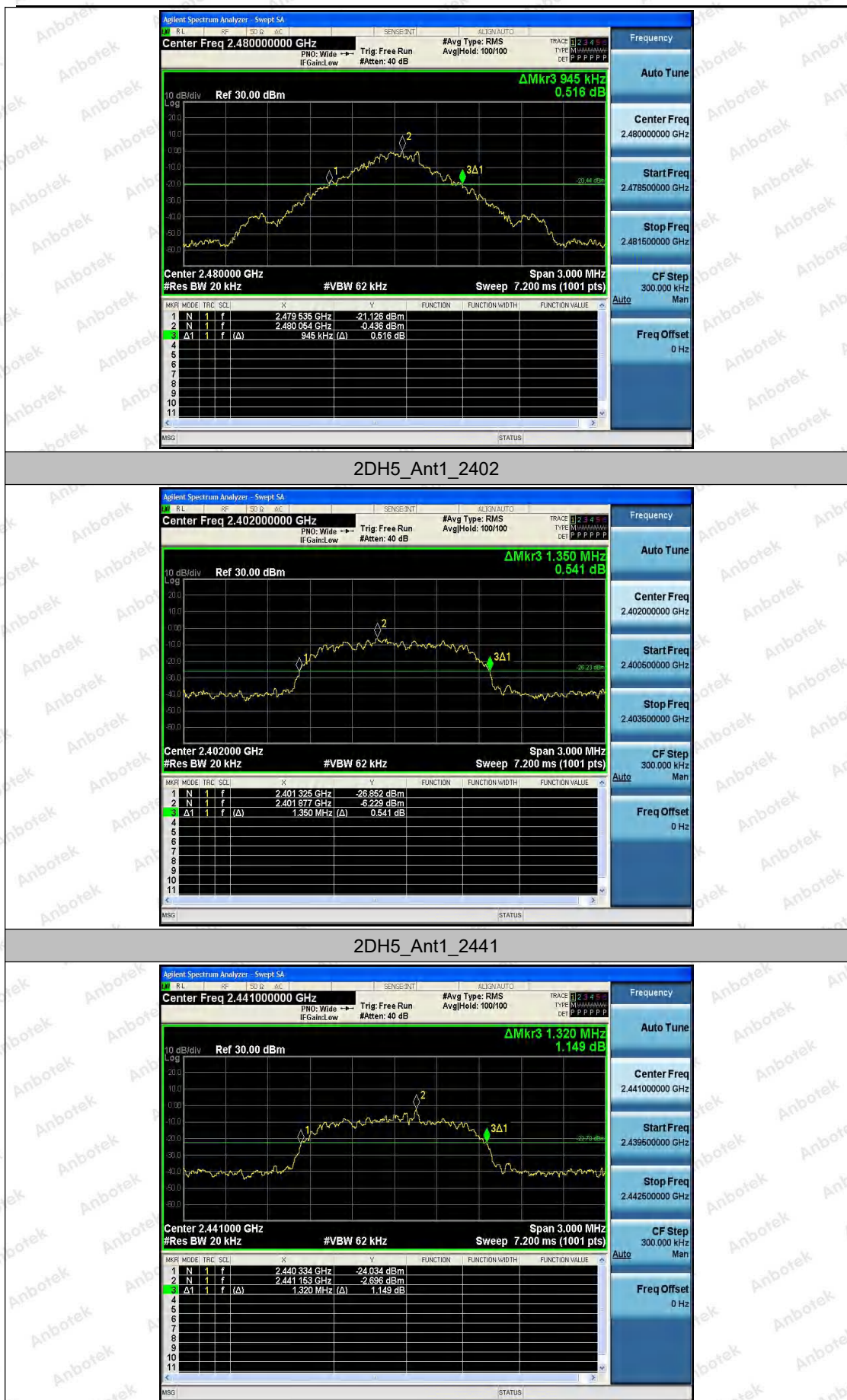
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.535	2402.474	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.350	2401.325	2402.675	---	PASS
		2441	1.320	2440.334	2441.654	---	PASS
		2480	1.272	2479.361	2480.633	---	PASS
3DH5	Ant1	2402	1.311	2401.343	2402.654	---	PASS
		2441	1.275	2440.349	2441.624	---	PASS
		2480	1.305	2479.346	2480.651	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89137	2401.553	2402.444	---	PASS
		2441	0.89324	2440.552	2441.446	---	PASS
		2480	0.89703	2479.553	2480.450	---	PASS
2DH5	Ant1	2402	1.1880	2401.405	2402.593	---	PASS
		2441	1.1998	2440.398	2441.597	---	PASS
		2480	1.1866	2479.403	2480.590	---	PASS
3DH5	Ant1	2402	1.2100	2401.384	2402.594	---	PASS
		2441	1.2083	2440.385	2441.594	---	PASS
		2480	1.1986	2479.394	2480.593	---	PASS

Test Graphs



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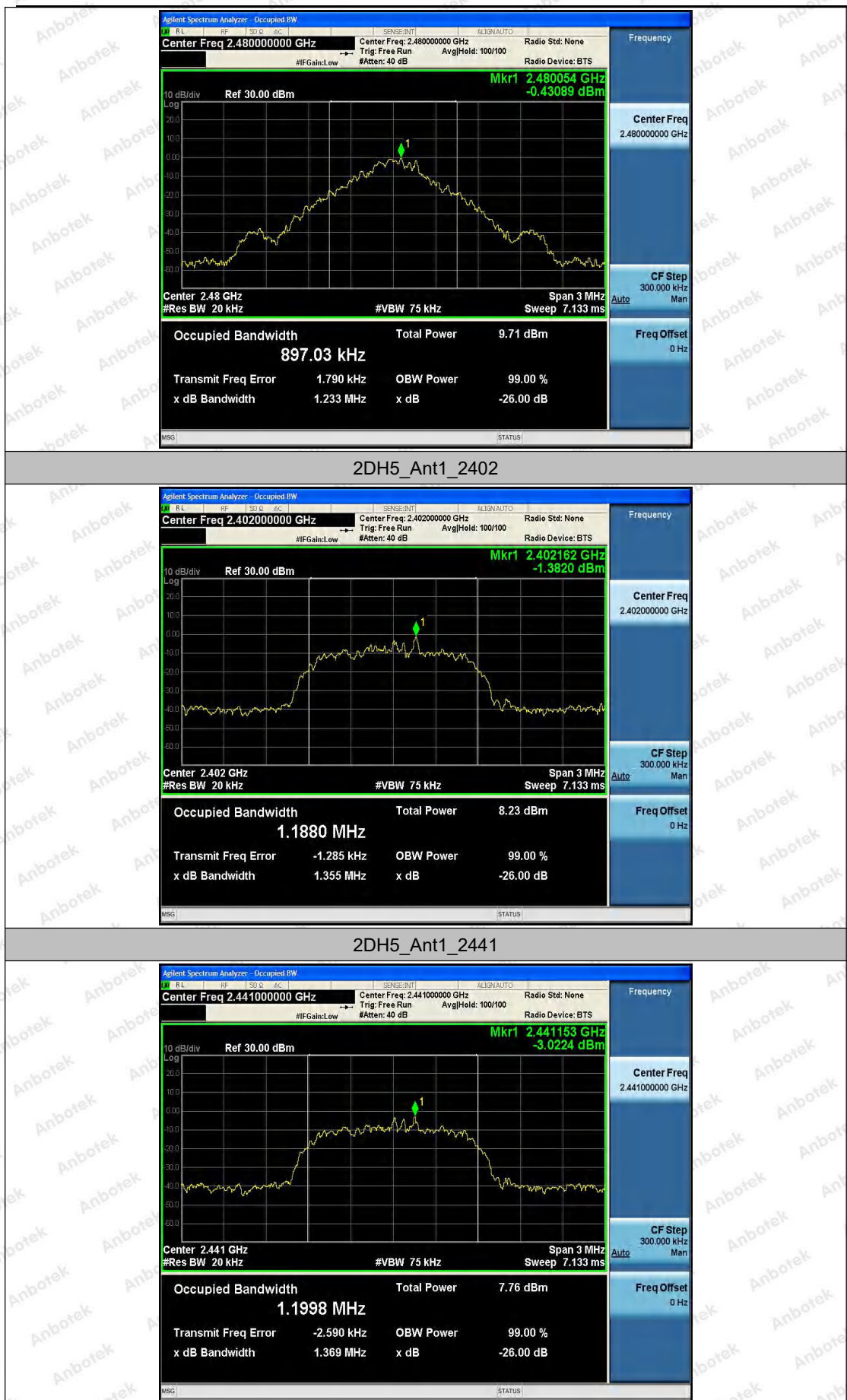
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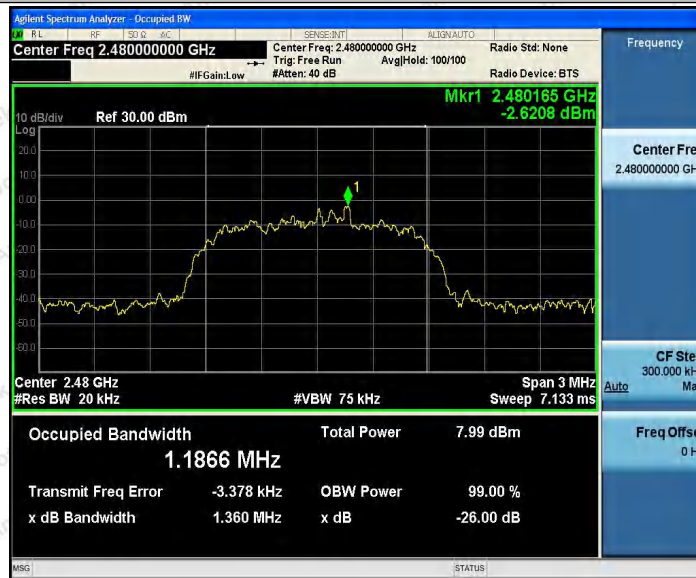
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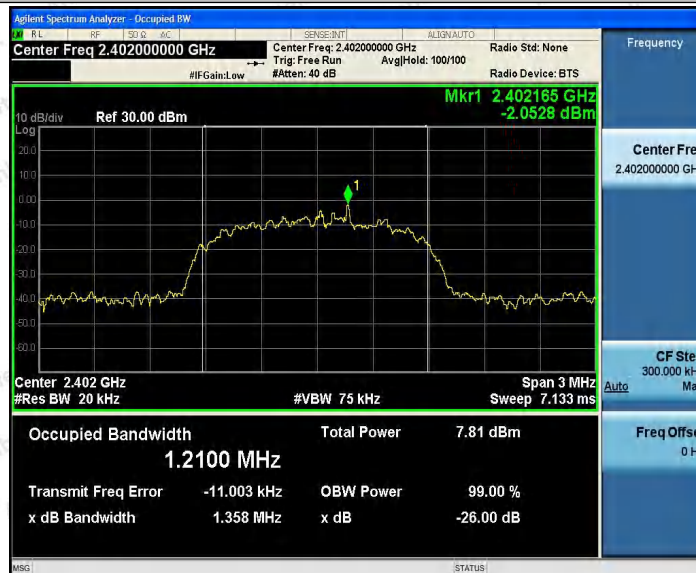
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

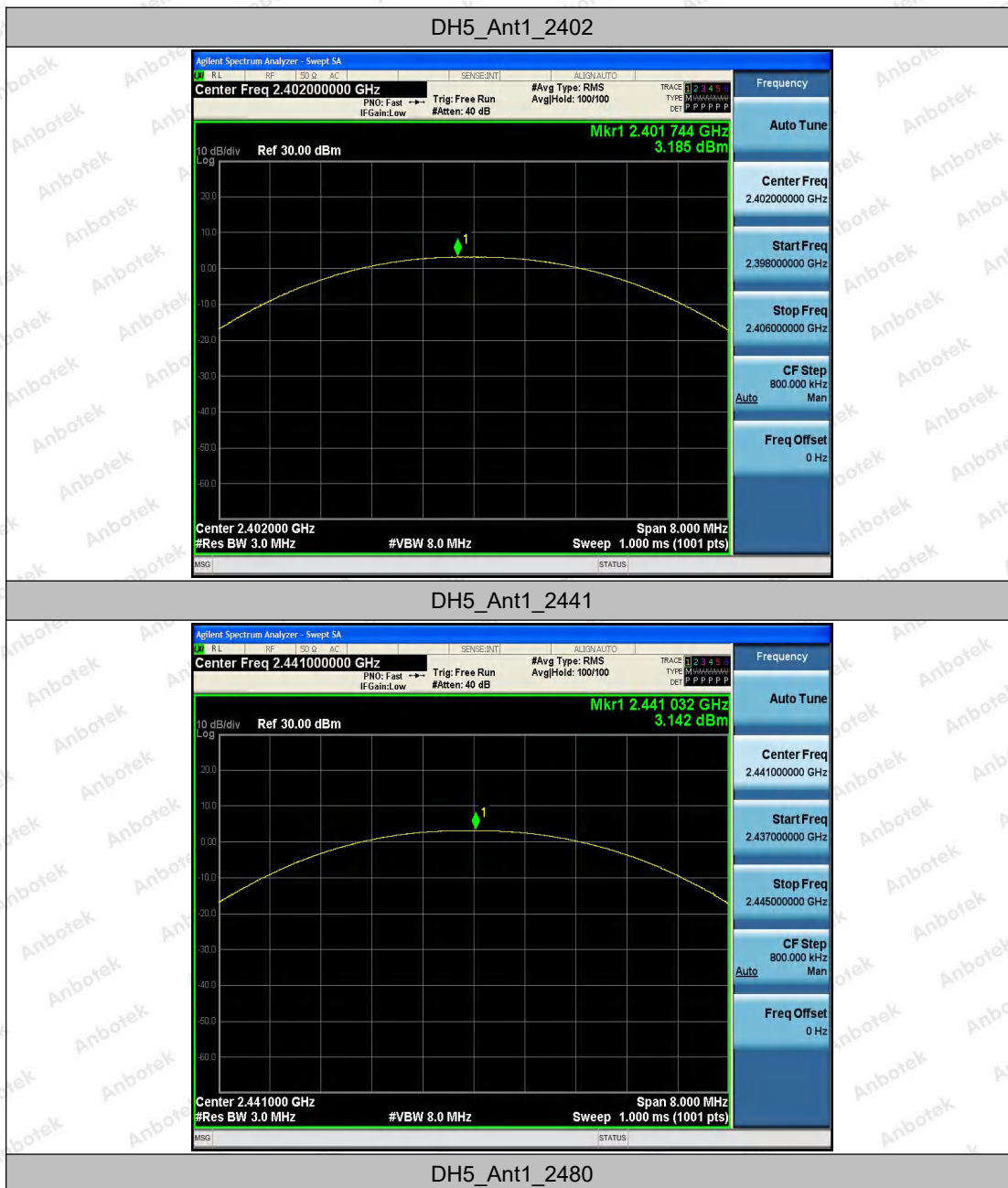


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.19	≤20.97	PASS
		2441	3.14	≤20.97	PASS
		2480	3.18	≤20.97	PASS
2DH5	Ant1	2402	2.59	≤20.97	PASS
		2441	2.6	≤20.97	PASS
		2480	2.46	≤20.97	PASS
3DH5	Ant1	2402	2.73	≤20.97	PASS
		2441	2.7	≤20.97	PASS
		2480	2.62	≤20.97	PASS

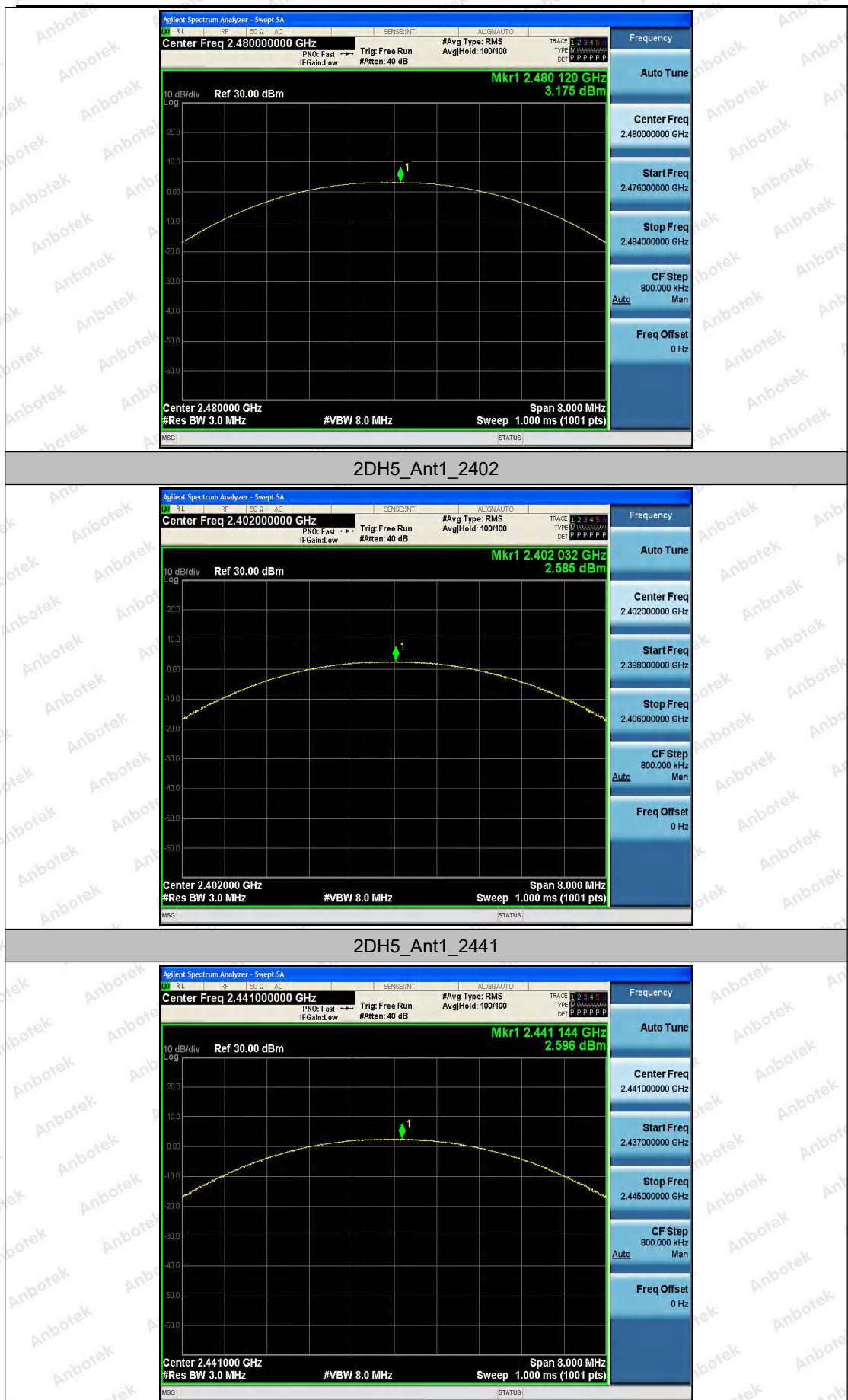
Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.892	≥ 0.630	PASS
2DH5	Ant1	Hop	1.314	≥ 0.900	PASS
3DH5	Ant1	Hop	1.134	≥ 0.874	PASS

Test Graphs

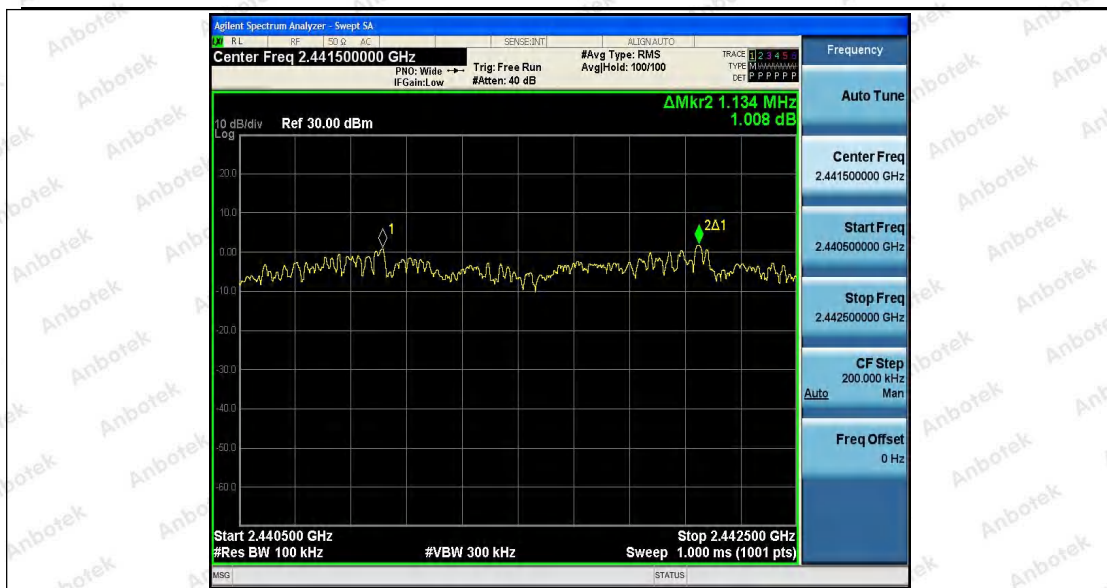


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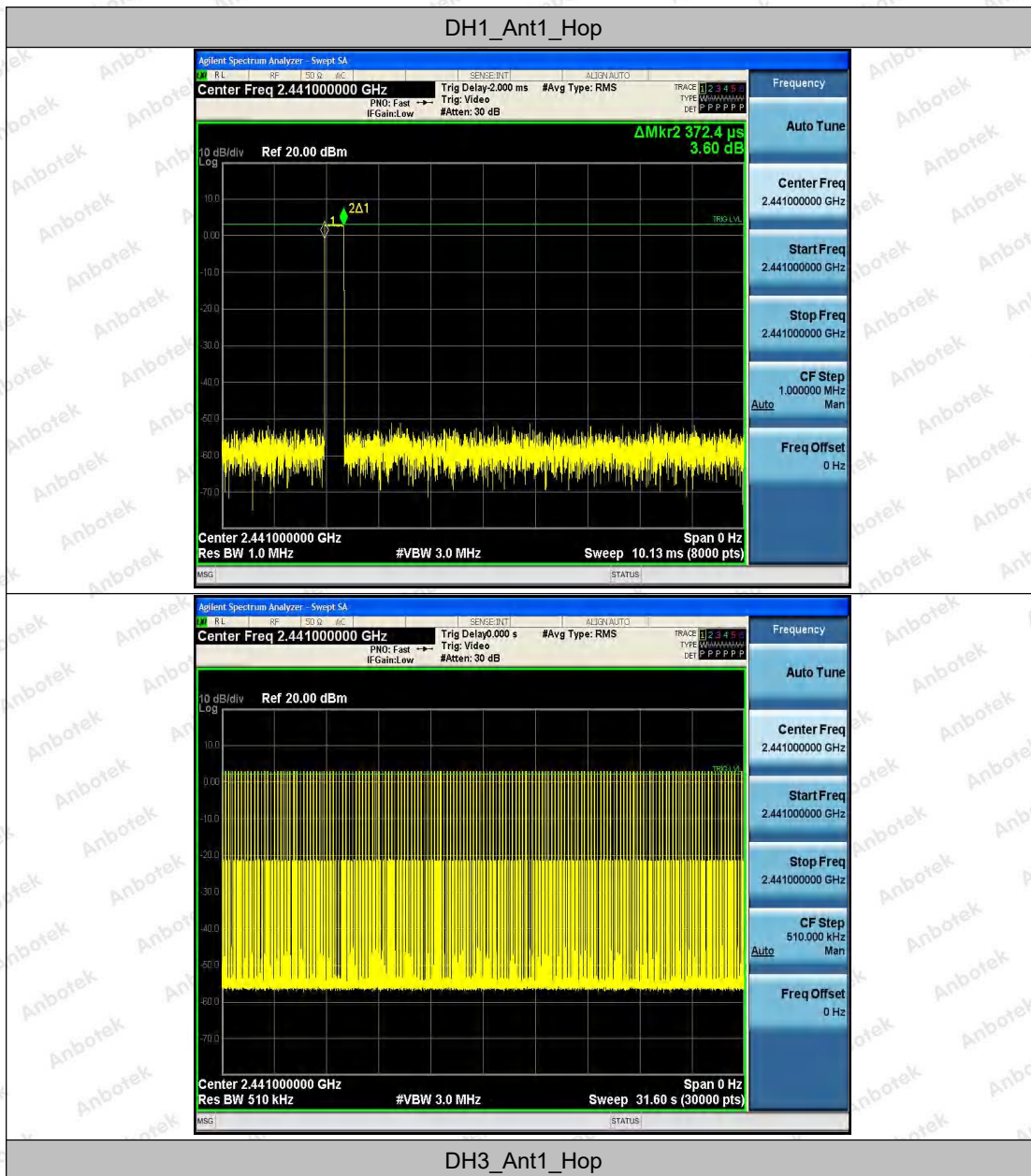
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	114	0.328	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS

Test Graphs





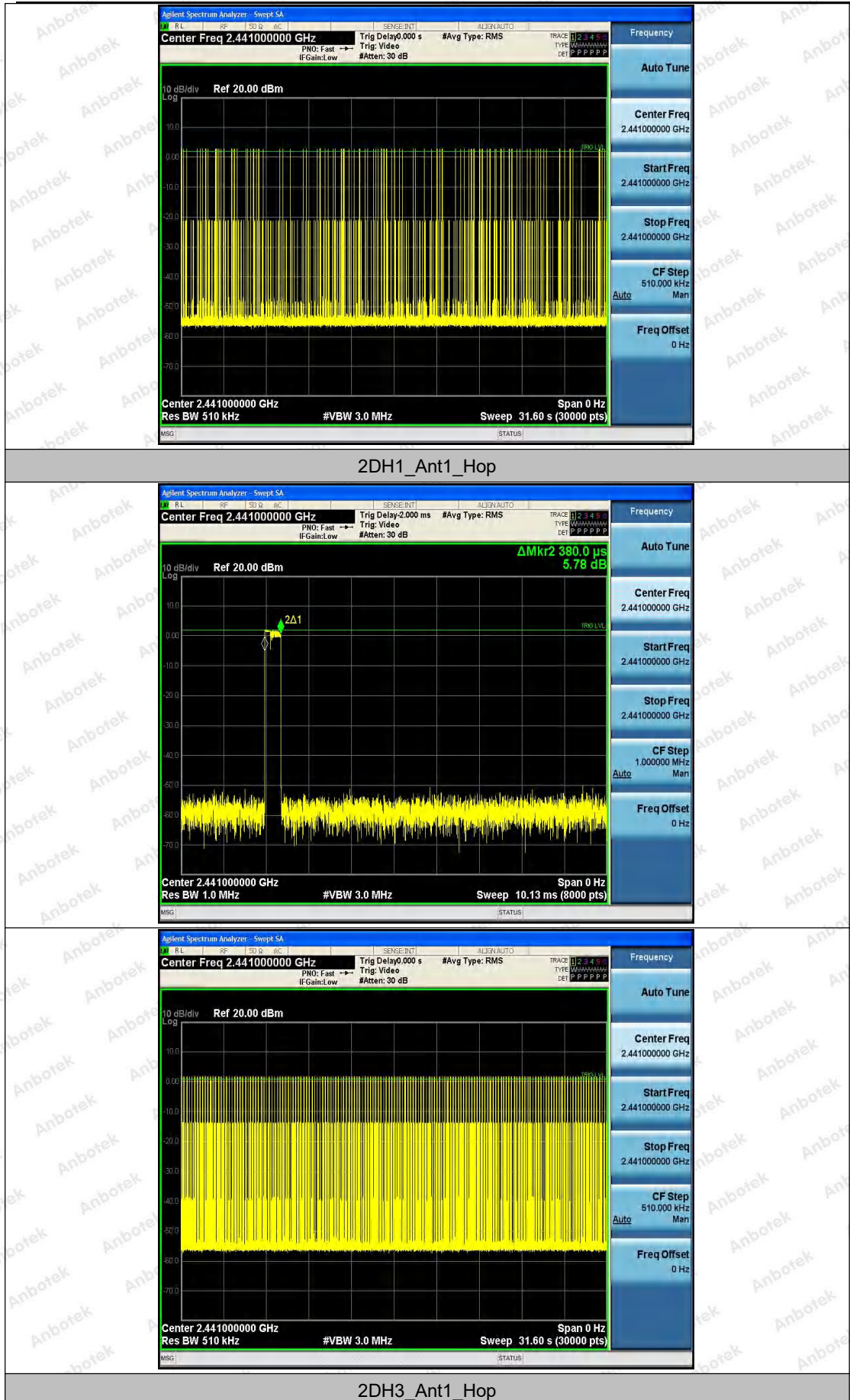
DH5_Ant1_Hop

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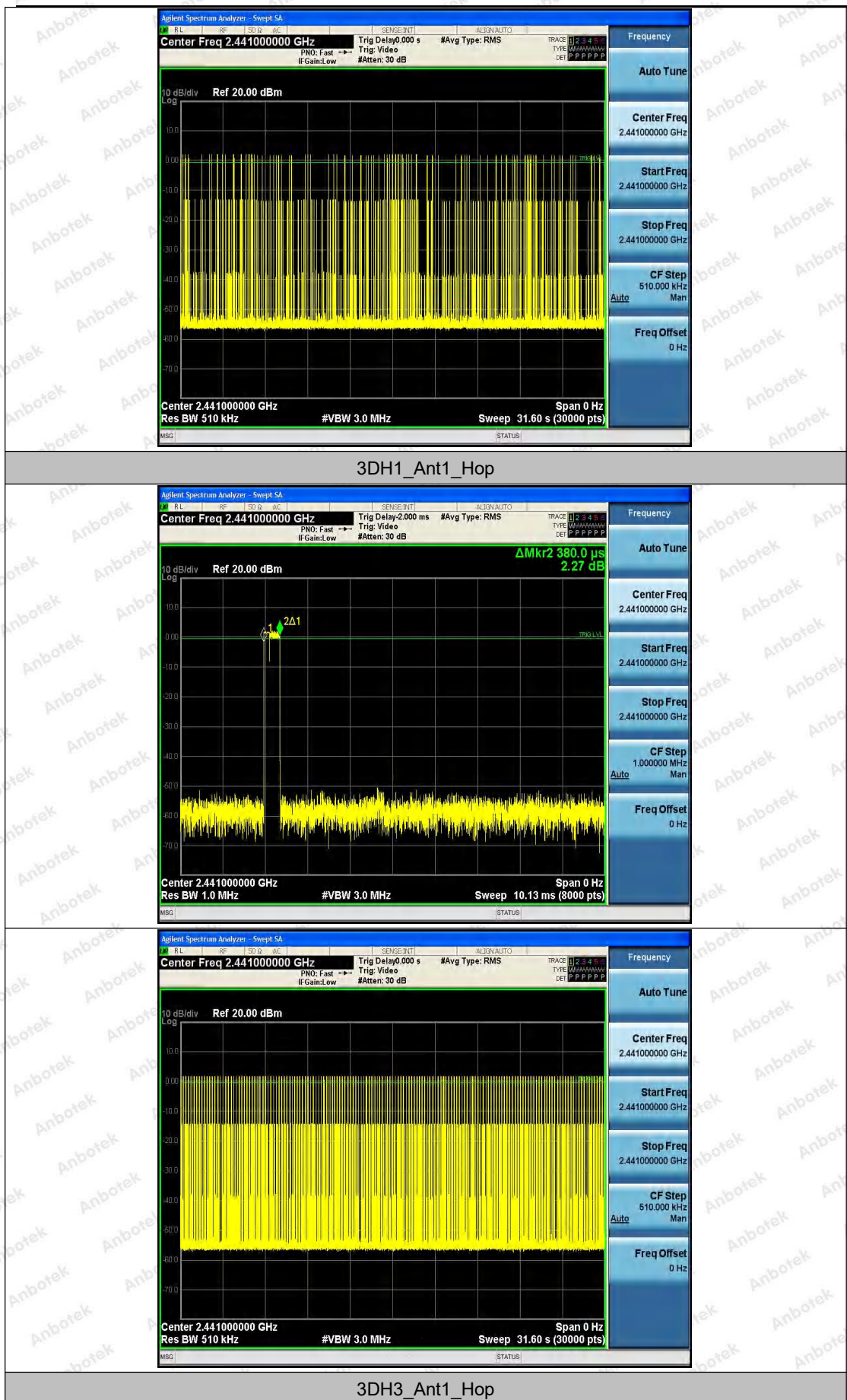
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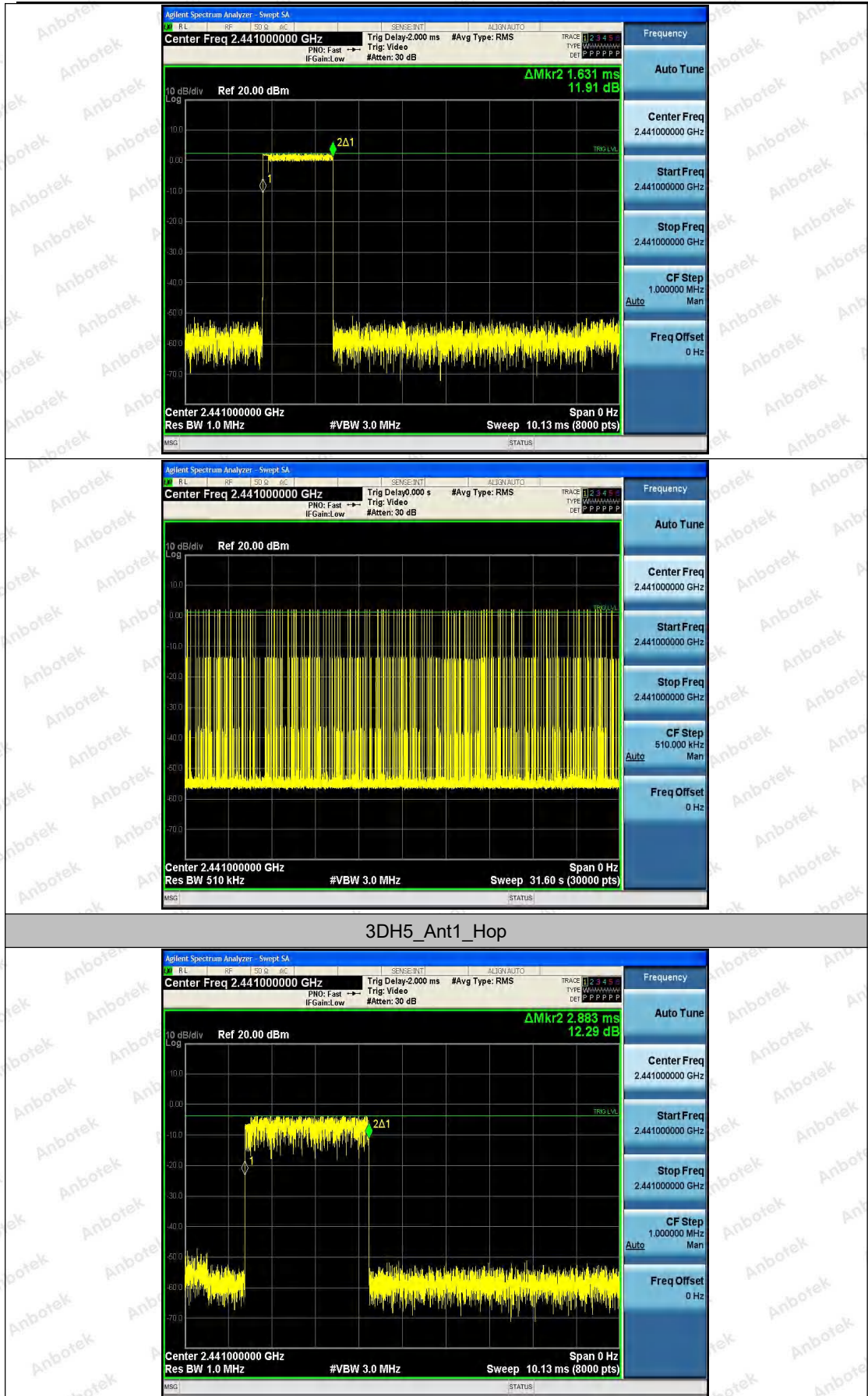


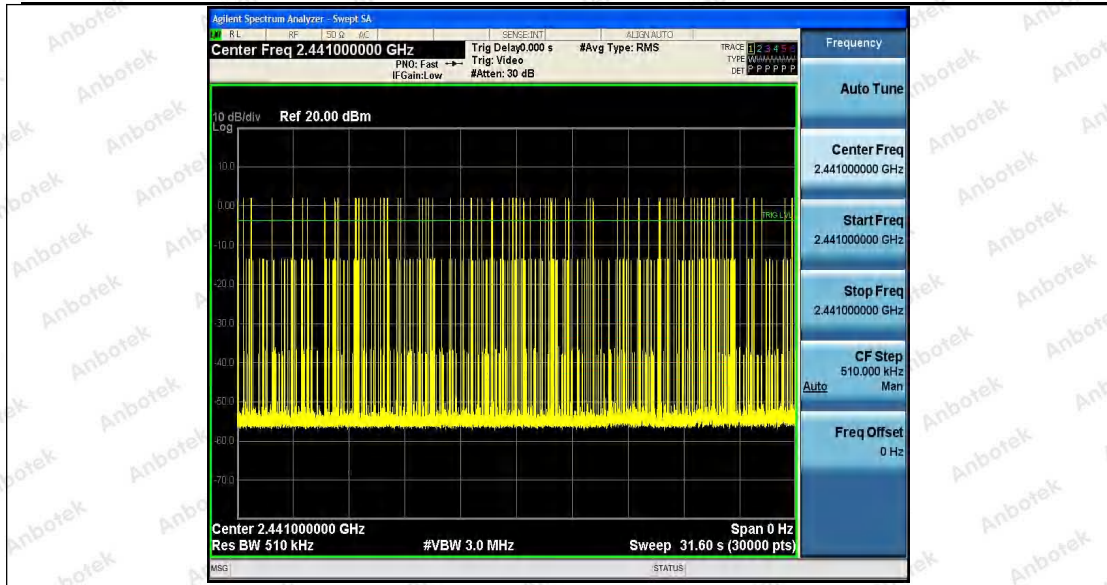


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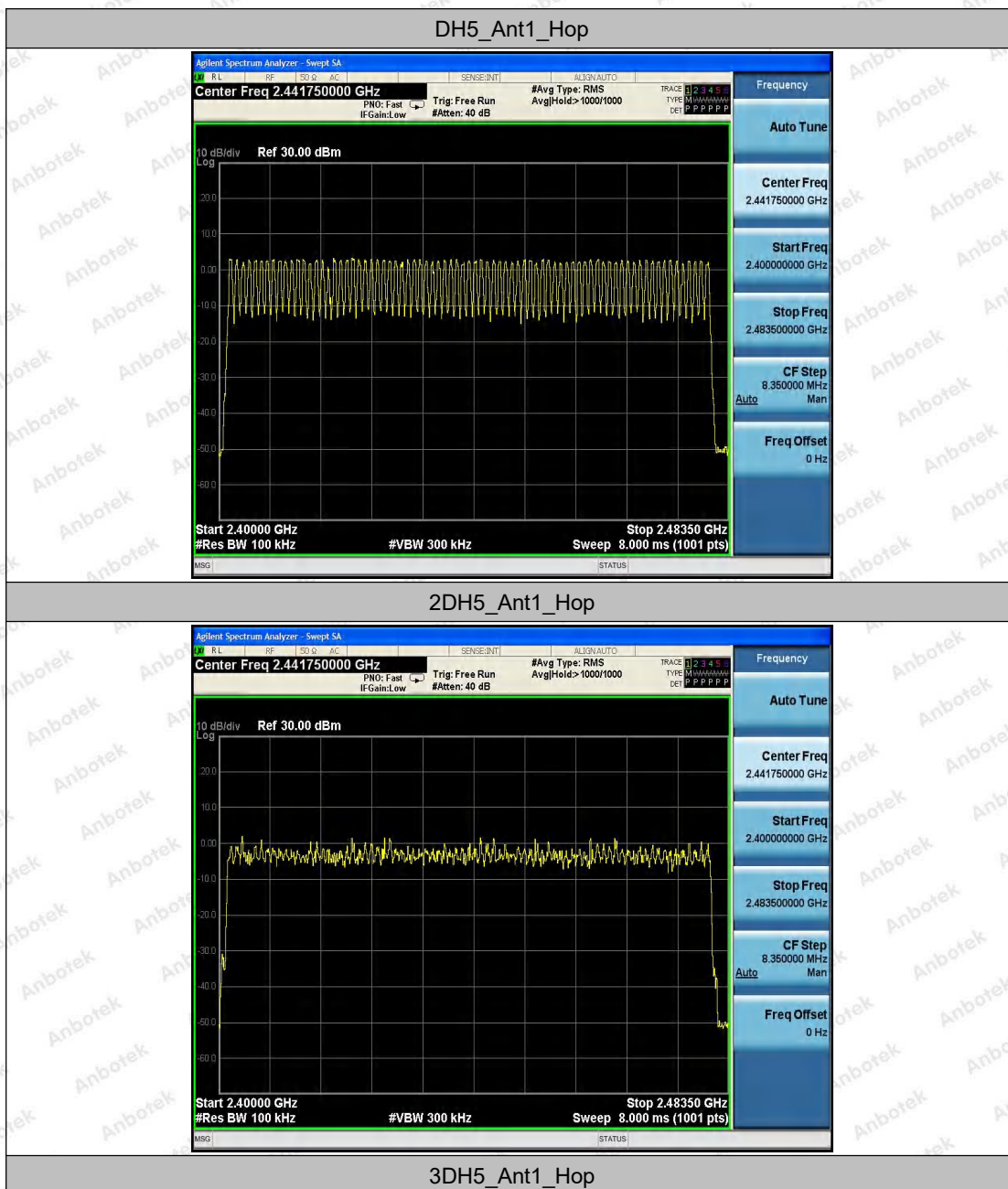
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Appendix F: Number of hopping channels

Test Result

Test Mode	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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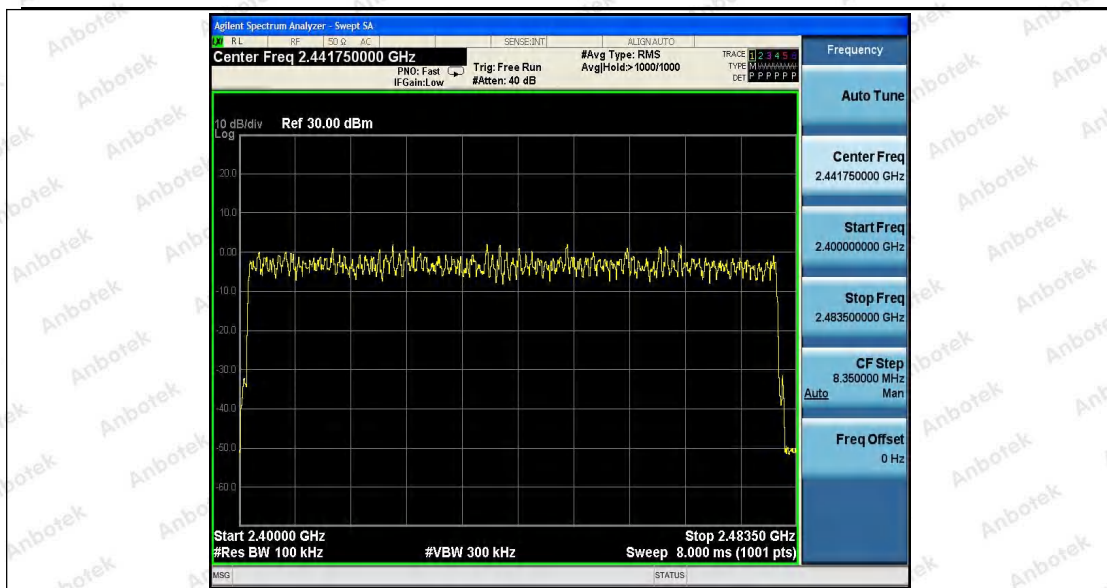
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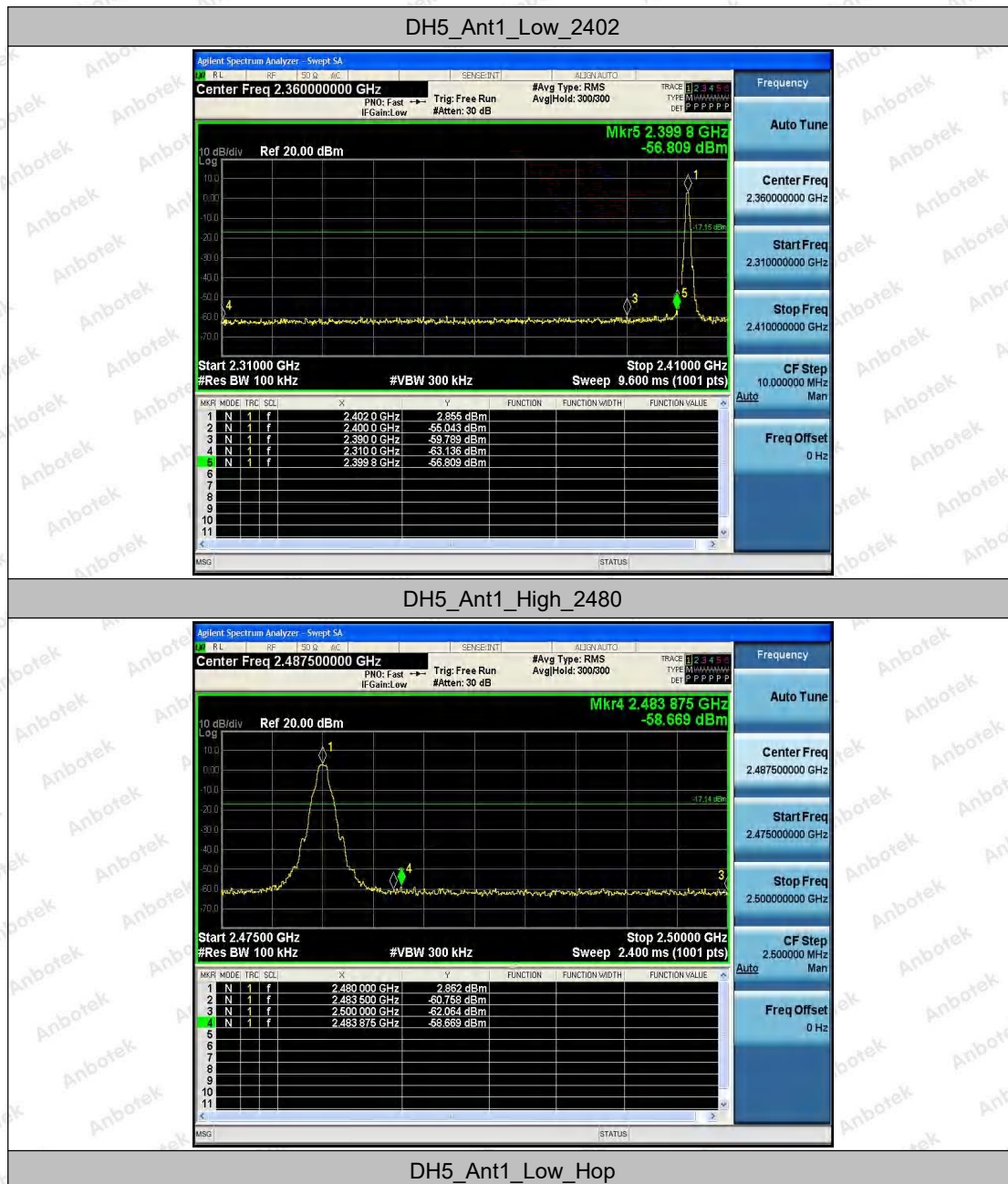
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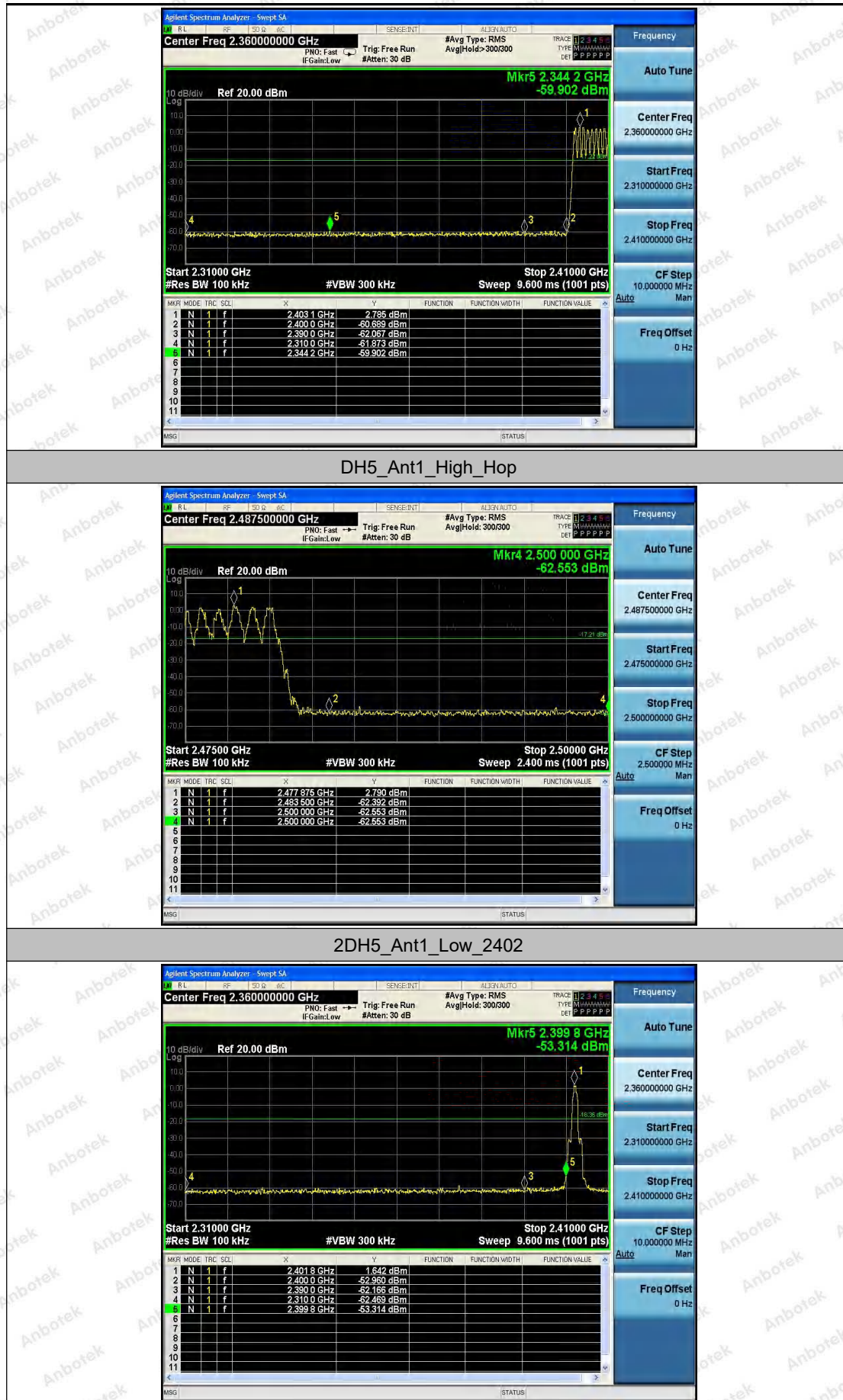
Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.86	-56.81	≤ -17.15	PASS
		High	2480	2.86	-58.67	≤ -17.14	PASS
		Low	Hop	2.79	-59.9	≤ -17.22	PASS
		High	Hop	2.79	-62.55	≤ -17.21	PASS
2DH5	Ant1	Low	2402	1.64	-53.31	≤ -18.36	PASS
		High	2480	1.41	-58.32	≤ -18.59	PASS
		Low	Hop	-1.33	-59.34	≤ -21.33	PASS
		High	Hop	1.42	-62.76	≤ -18.58	PASS
3DH5	Ant1	Low	2402	1.85	-54.71	≤ -18.15	PASS
		High	2480	1.69	-58.94	≤ -18.31	PASS
		Low	Hop	0.53	-59.87	≤ -19.47	PASS
		High	Hop	-1.39	-60.71	≤ -21.39	PASS

Test Graphs



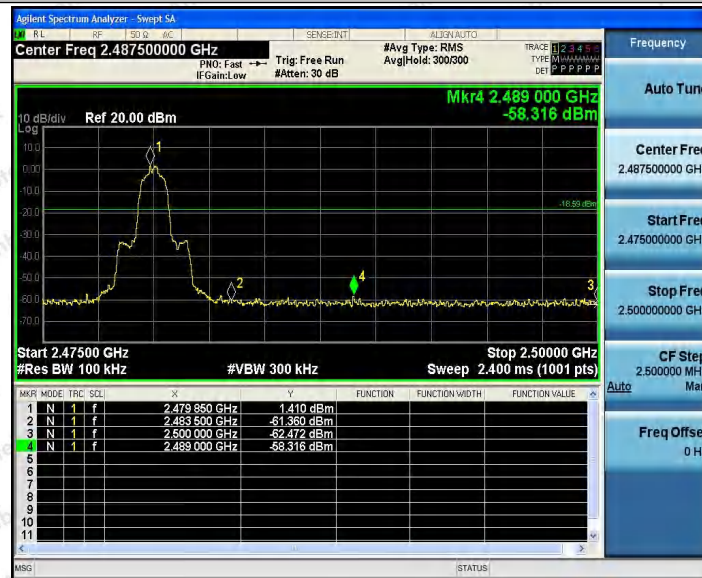


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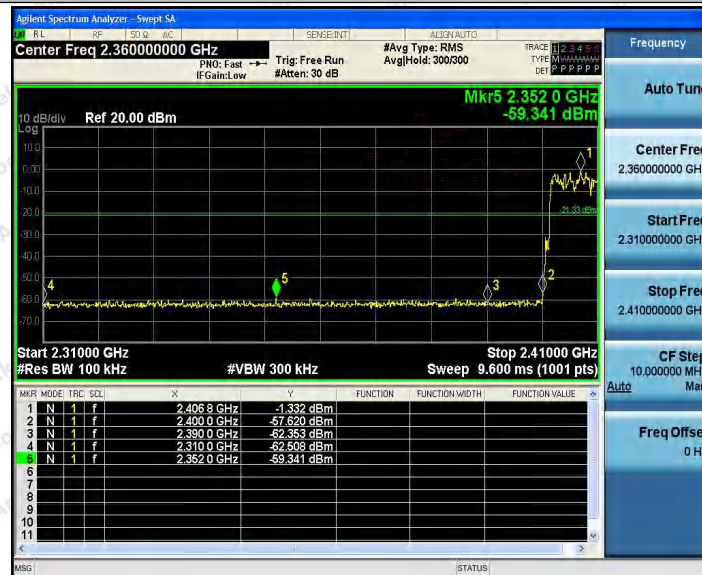
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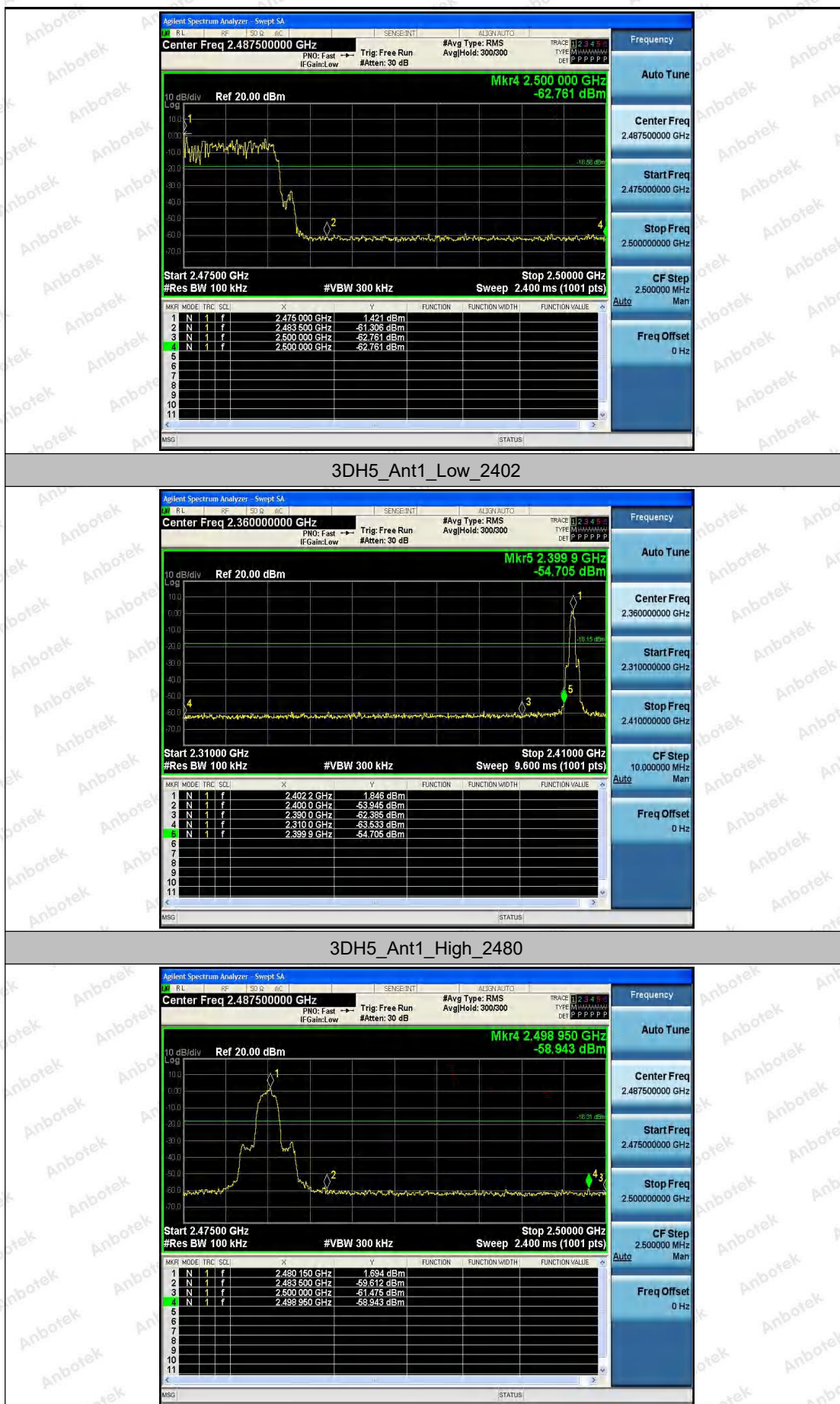
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

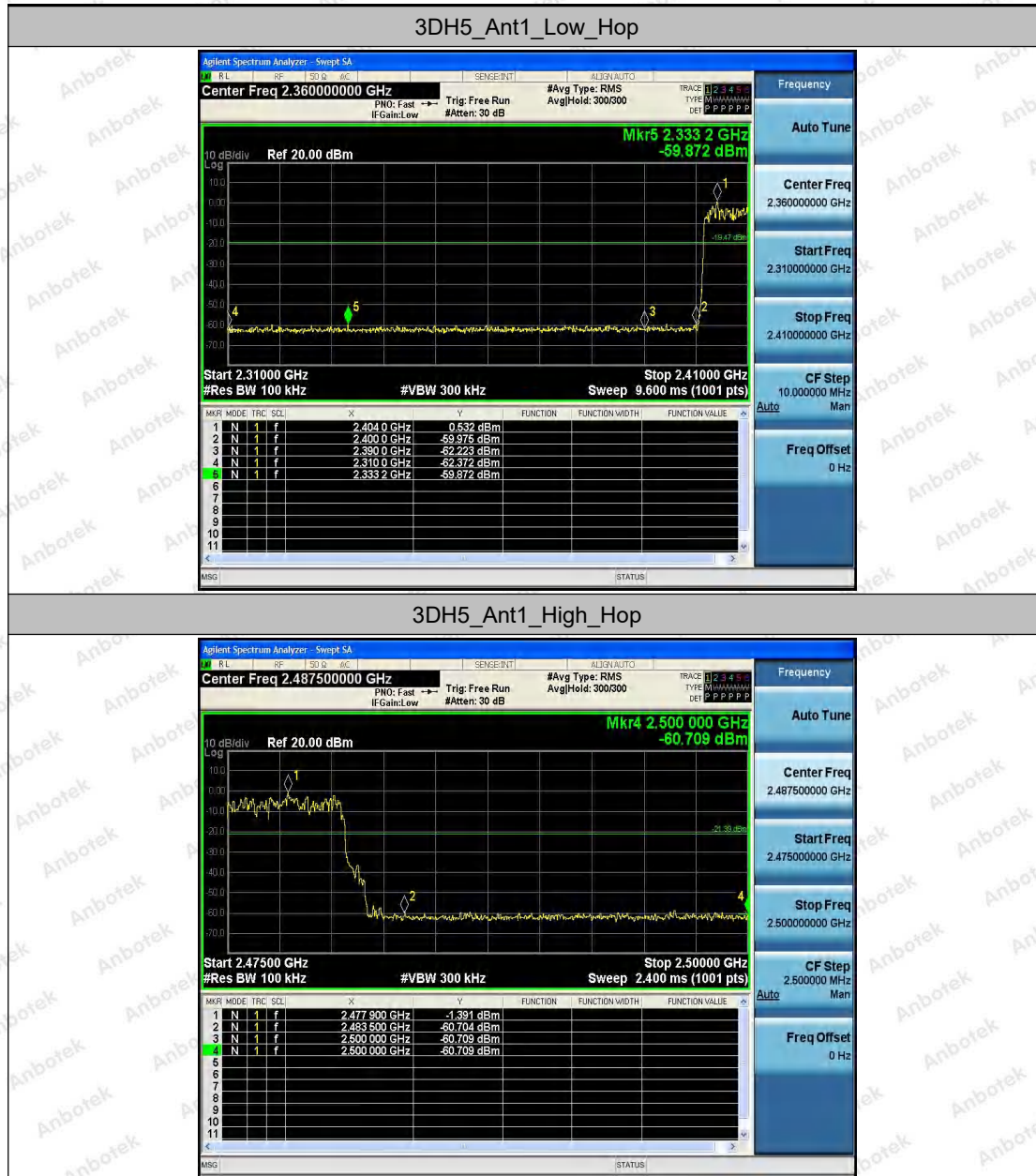


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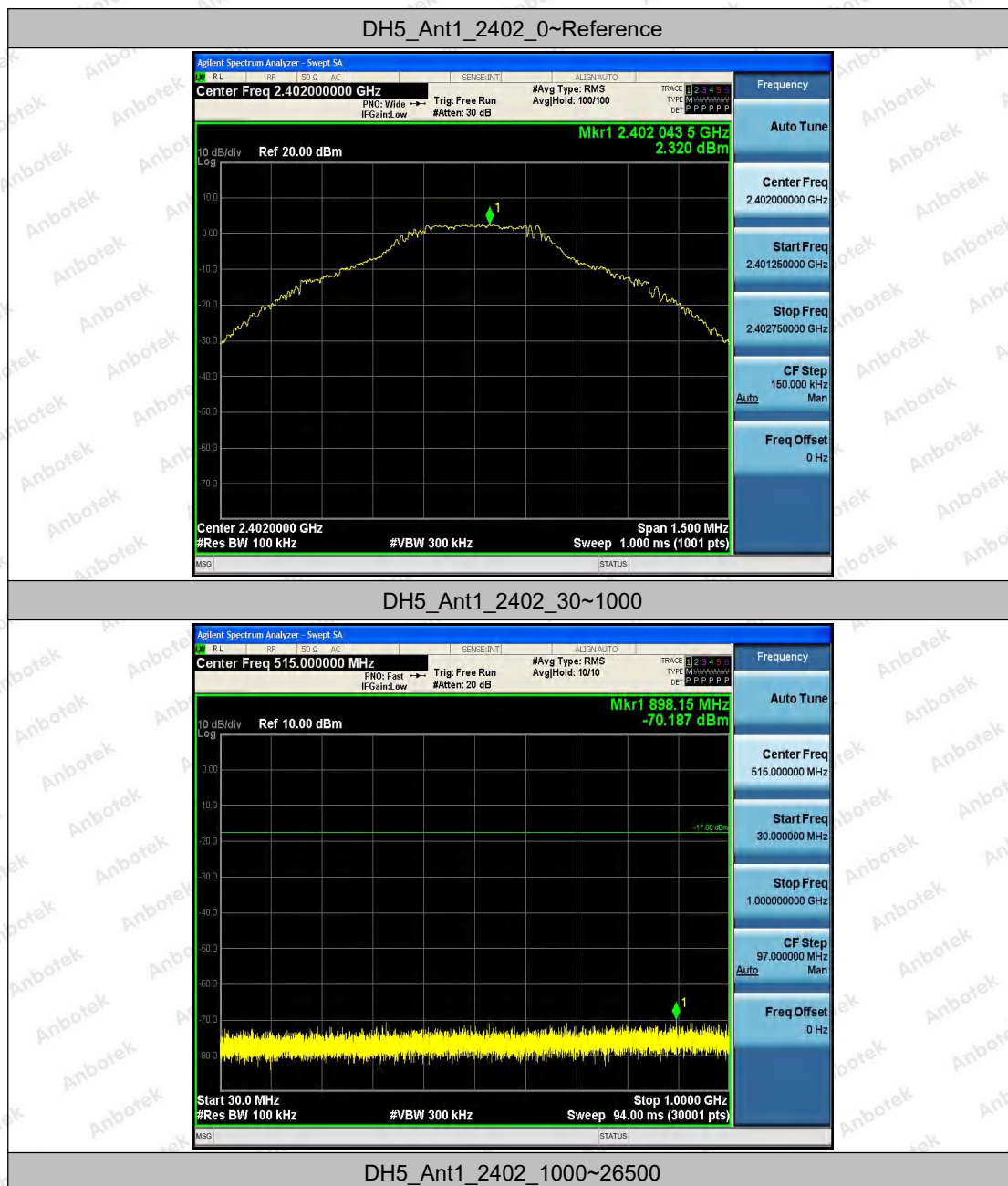


Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-70.19	≤-17.68	PASS
			1000~26500	2.32	-54.83	≤-17.68	PASS
		2441	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-70.25	≤-17.56	PASS
			1000~26500	2.44	-55.47	≤-17.56	PASS
		2480	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-70.36	≤-17.61	PASS
			1000~26500	2.39	-54.76	≤-17.61	PASS
2DH5	Ant1	2402	Reference	1.87	1.87	---	PASS
			30~1000	1.87	-70.4	≤-18.13	PASS
			1000~26500	1.87	-55.53	≤-18.13	PASS
		2441	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-70.42	≤-18.83	PASS
			1000~26500	1.17	-53.85	≤-18.83	PASS
		2480	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-70.63	≤-18.41	PASS
			1000~26500	1.59	-55.72	≤-18.41	PASS
3DH5	Ant1	2402	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-70.78	≤-18.89	PASS
			1000~26500	1.11	-55.02	≤-18.89	PASS
		2441	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-70.23	≤-18.18	PASS
			1000~26500	1.82	-53.96	≤-18.18	PASS
		2480	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-69.69	≤-18.29	PASS
			1000~26500	1.72	-55.38	≤-18.29	PASS

Test Graphs



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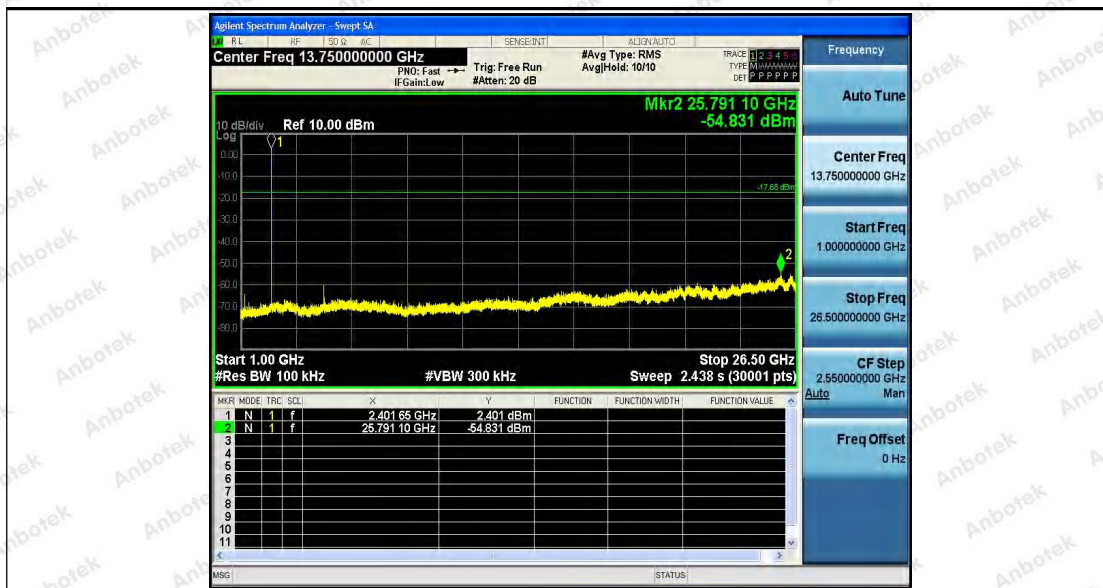
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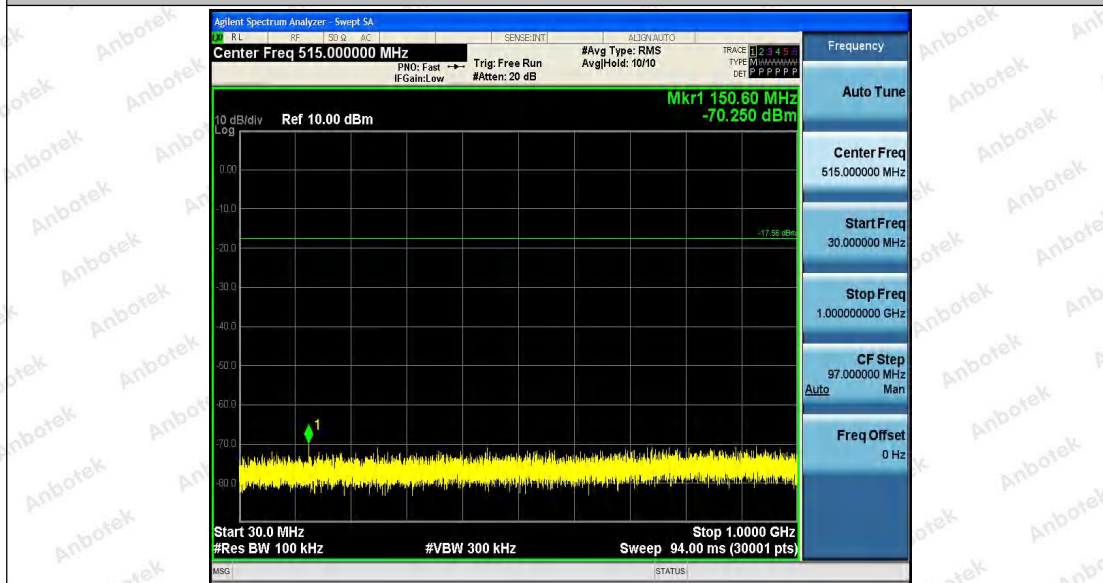
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

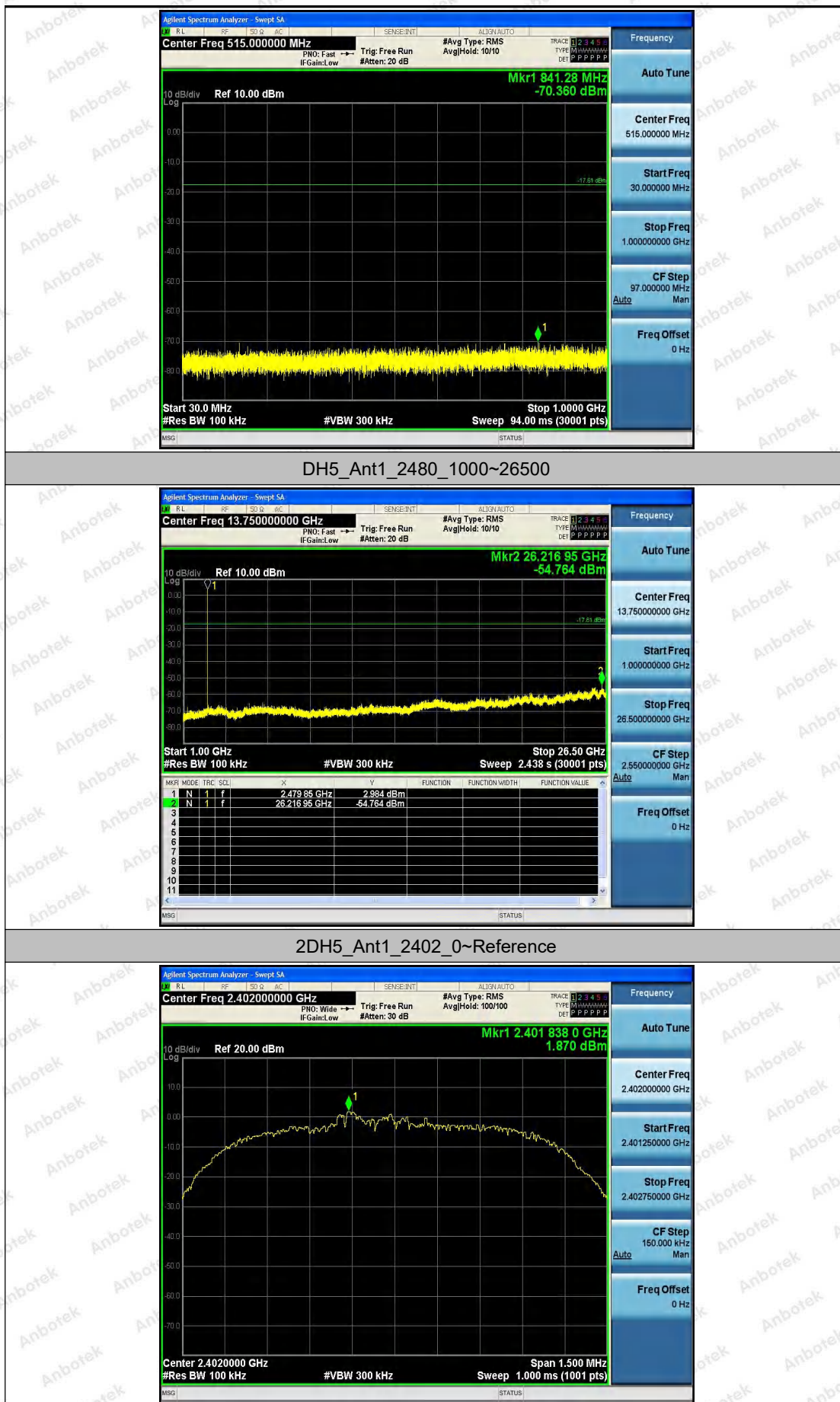


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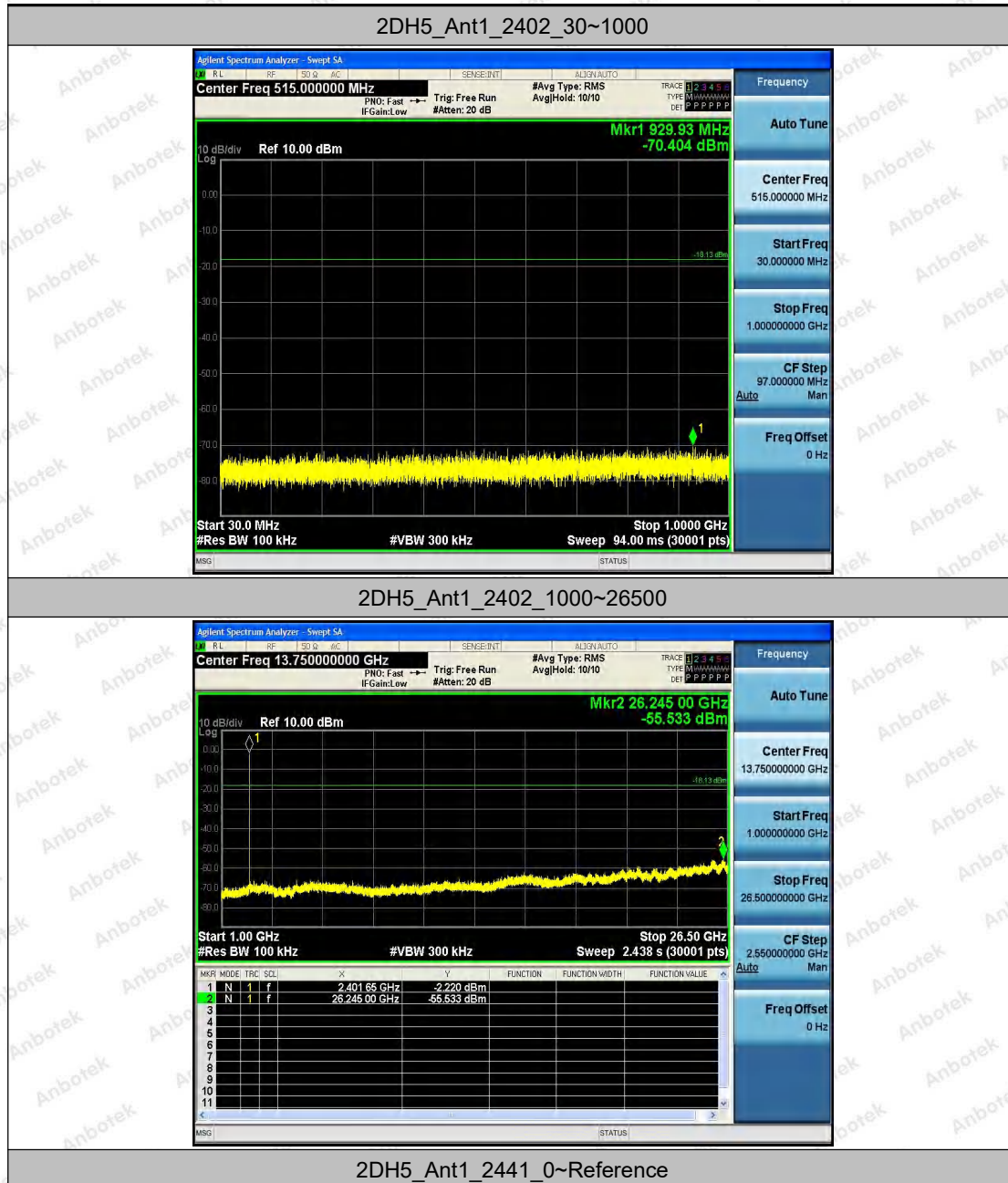


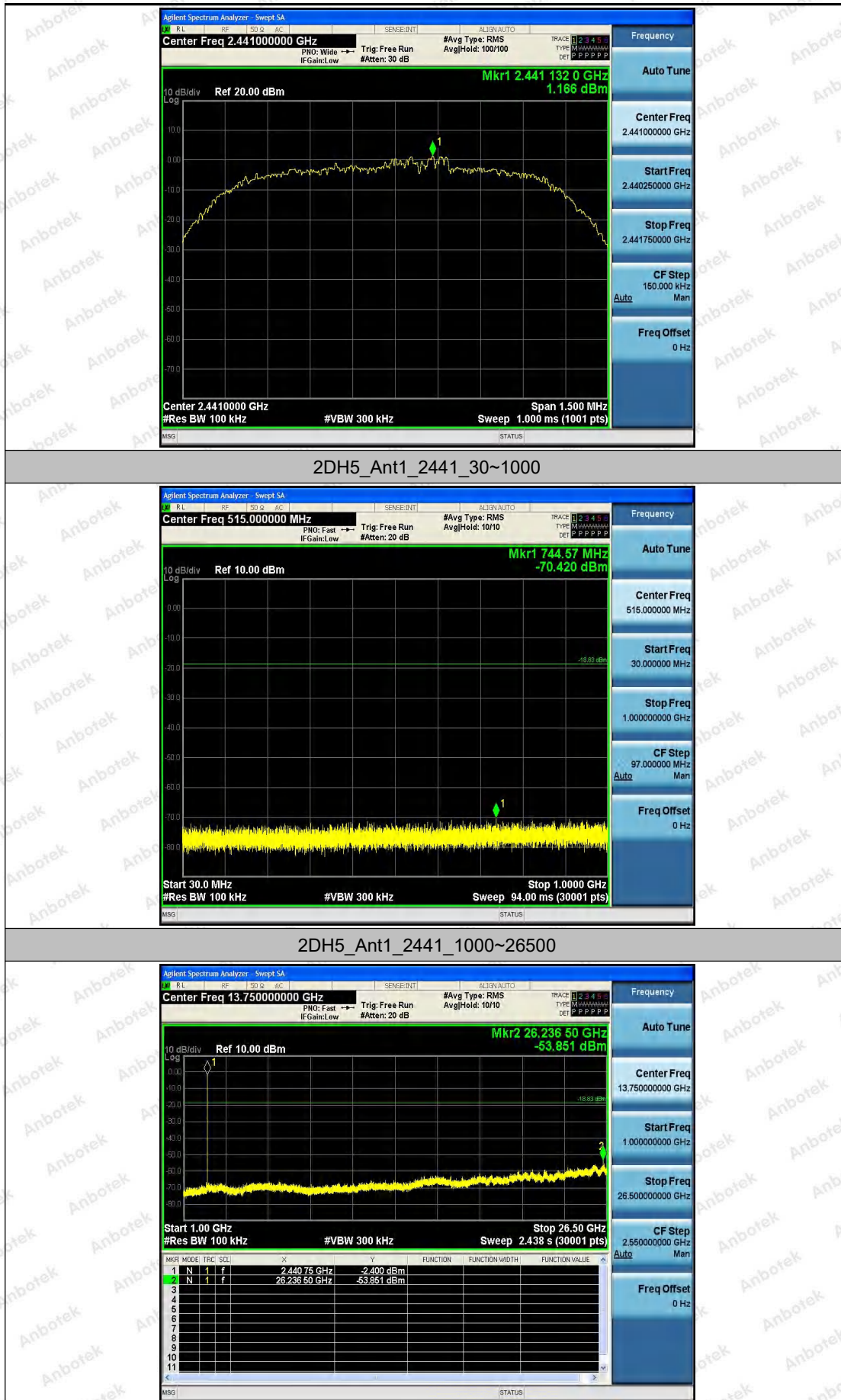


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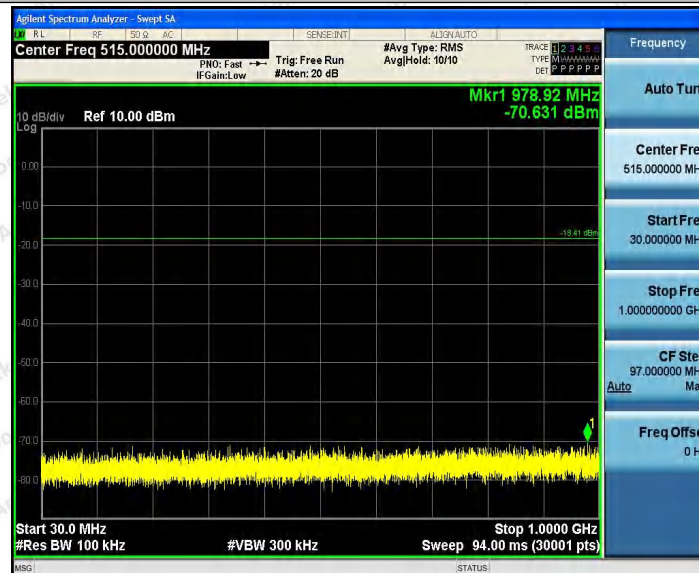
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

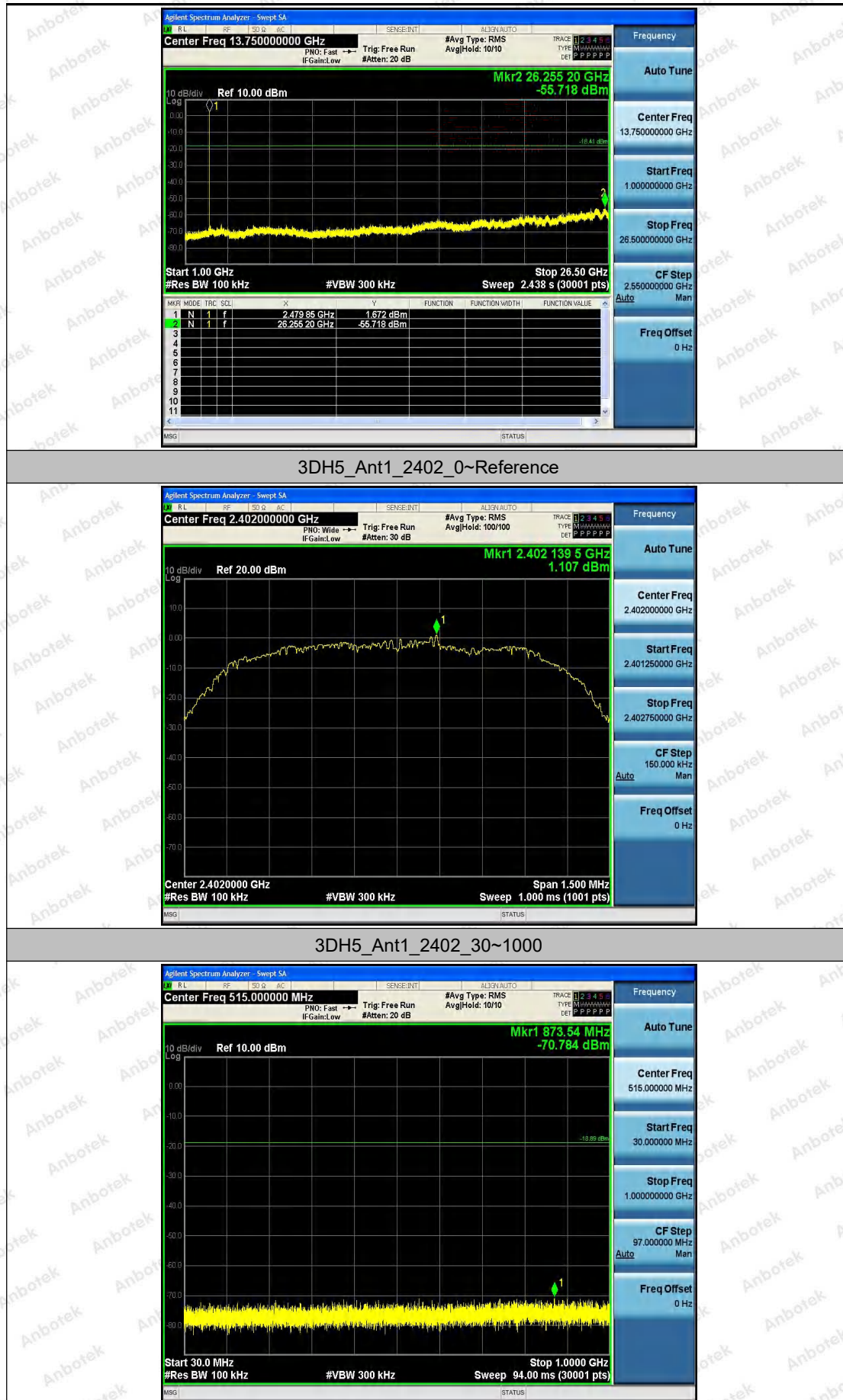


2DH5_Ant1_2480_1000~26500

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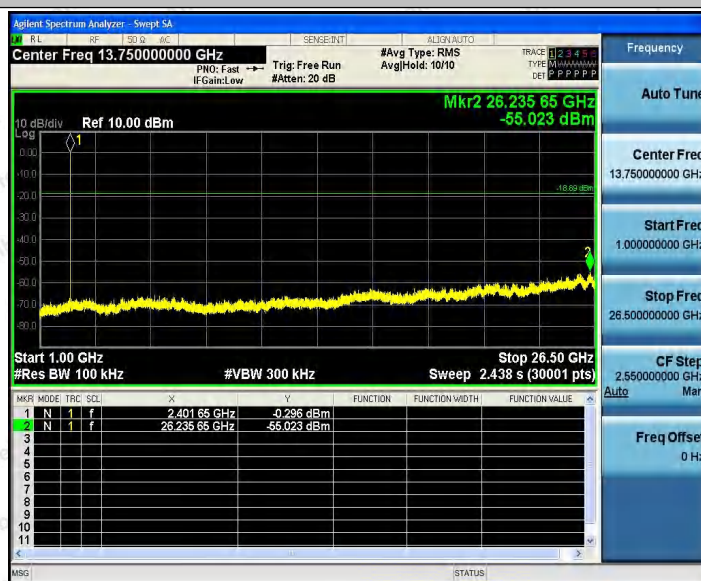


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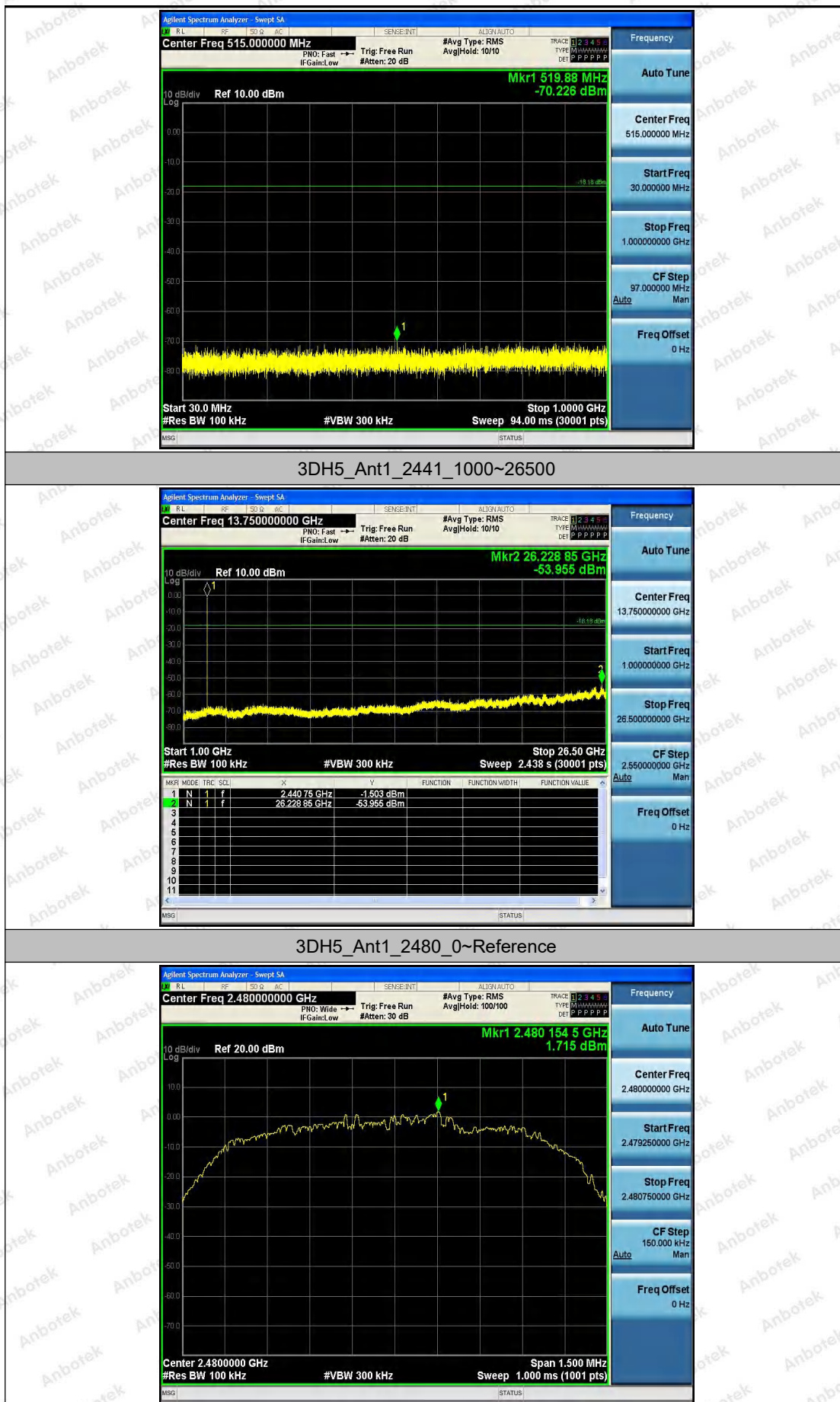
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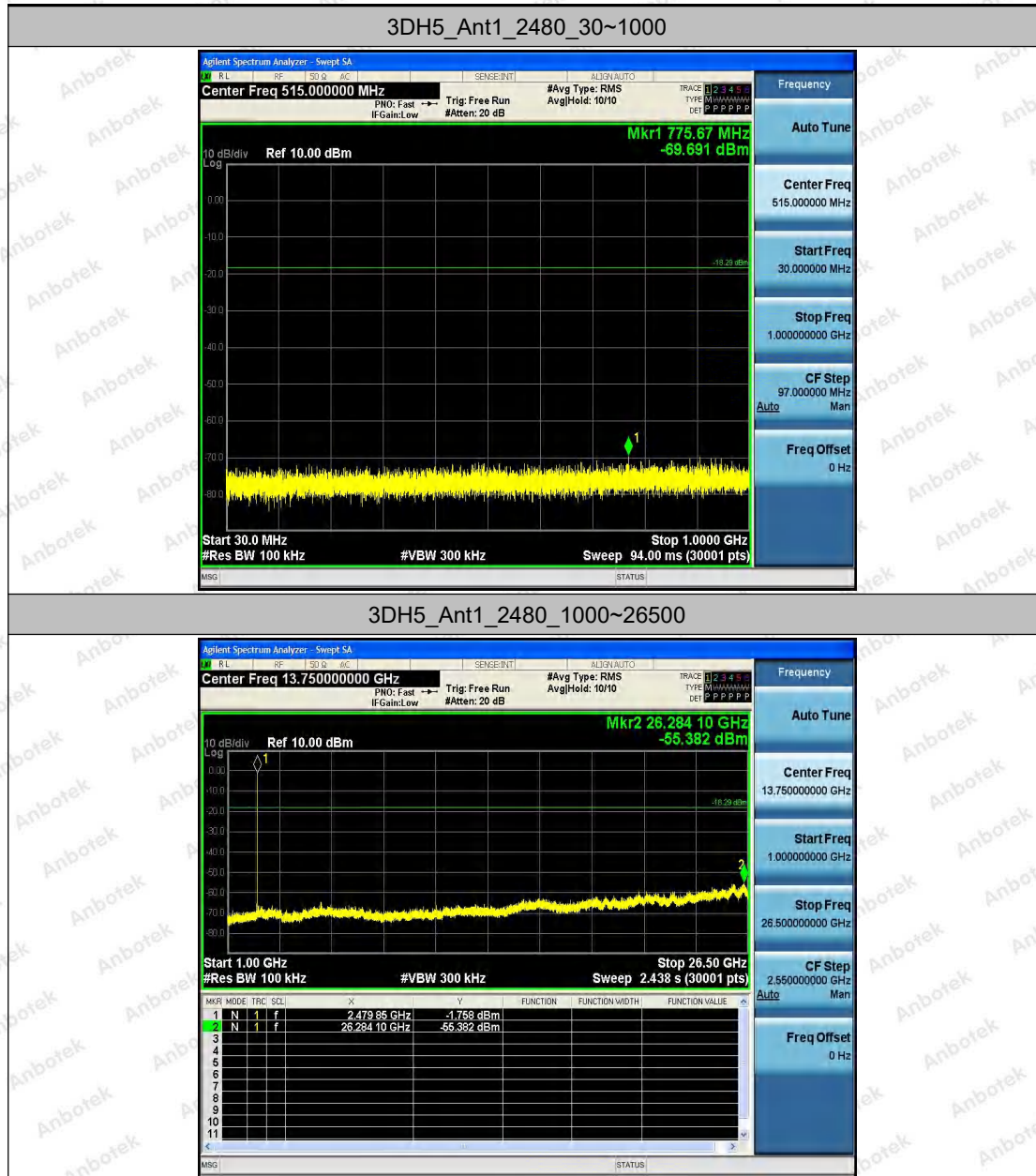
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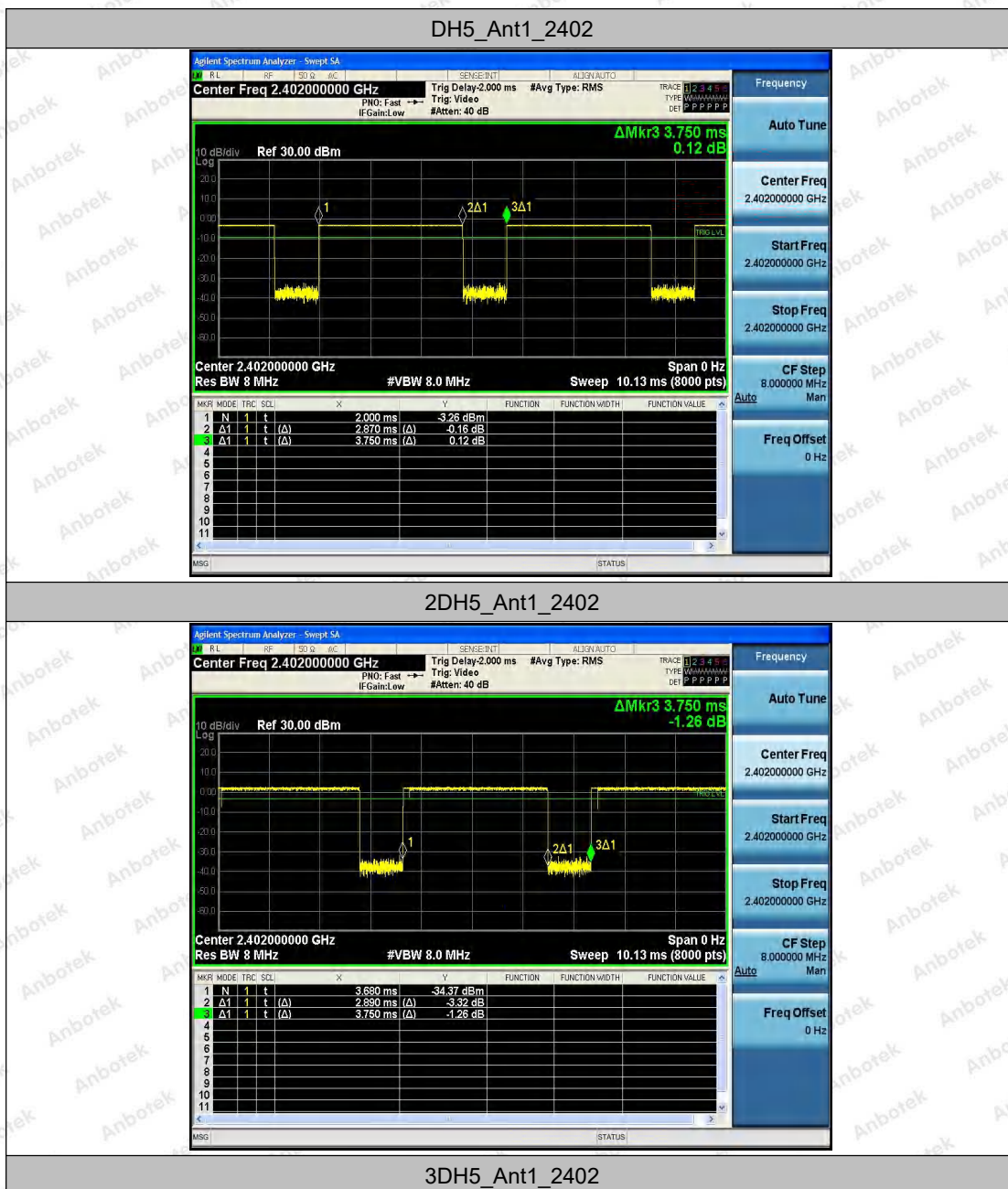


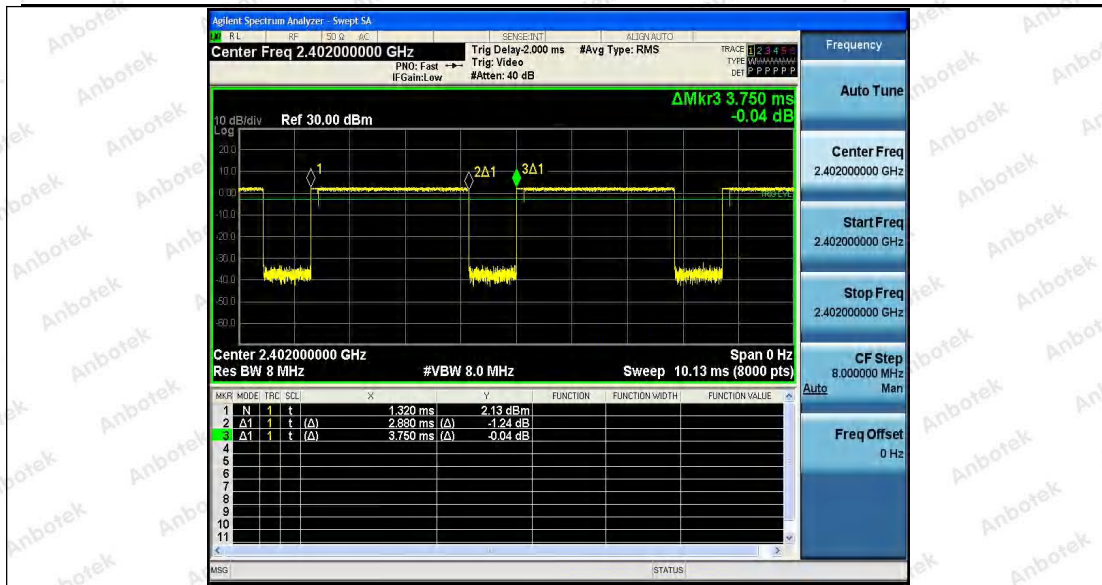
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---