

Appendix Test Data

Report No.:	18220WC10233201	Test Date:	202110.26
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
Pressure:	1012 hPa		

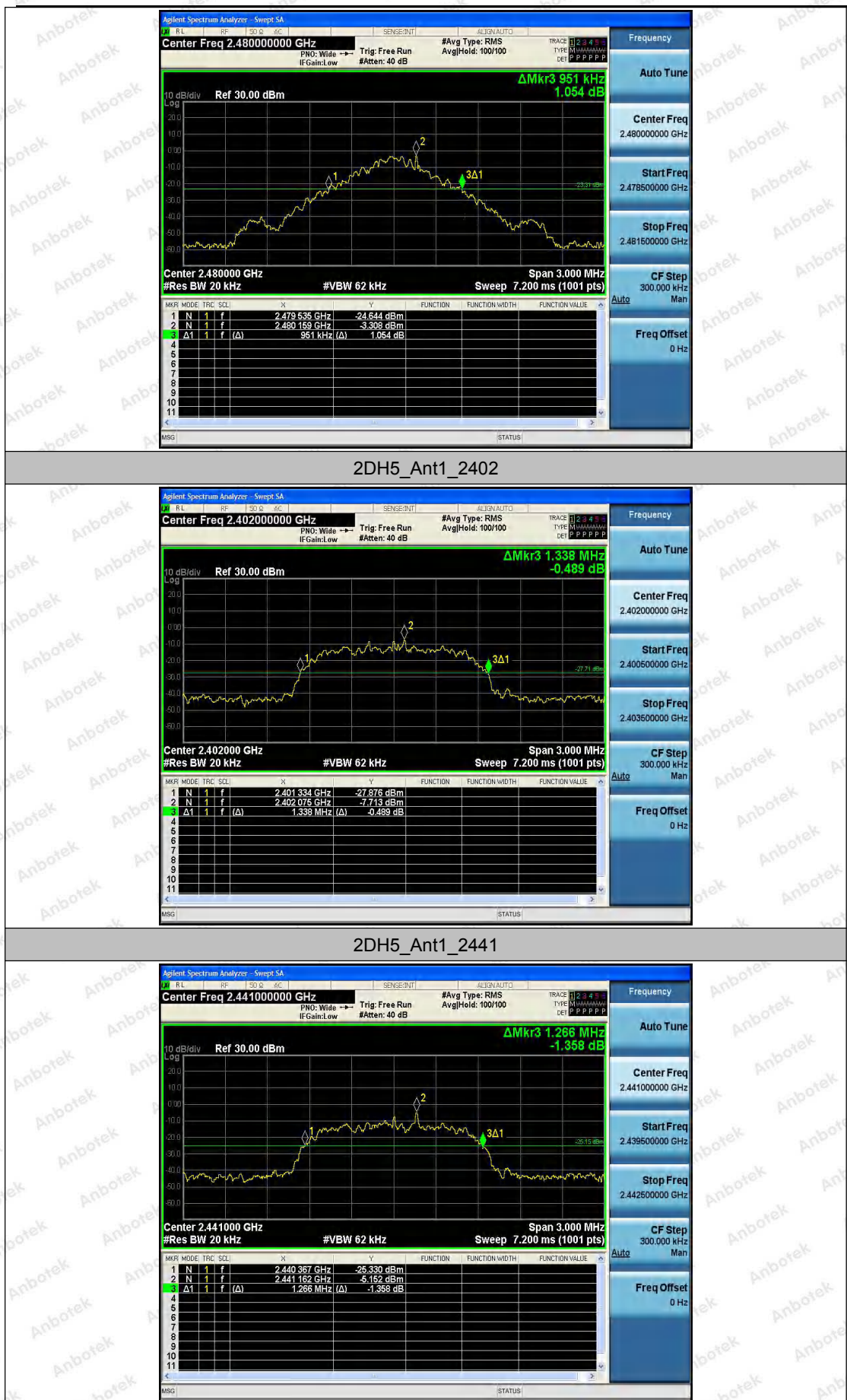
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.538	2402.483	---	PASS
		2441	0.939	2440.541	2441.480	---	PASS
		2480	0.951	2479.535	2480.486	---	PASS
2DH5	Ant1	2402	1.338	2401.334	2402.672	---	PASS
		2441	1.266	2440.367	2441.633	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.332	2401.328	2402.660	---	PASS
		2441	1.275	2440.349	2441.624	---	PASS
		2480	1.311	2479.343	2480.654	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



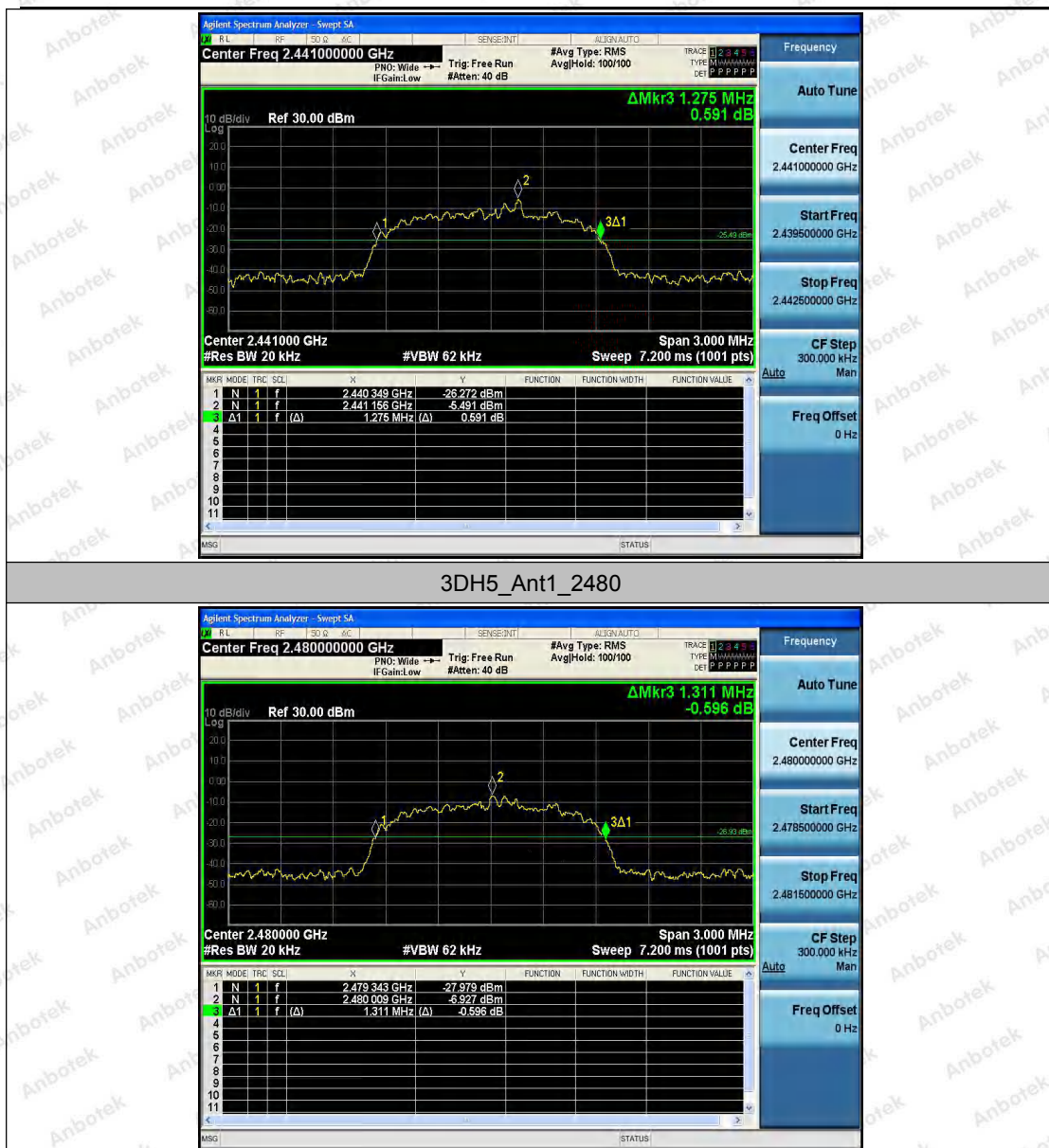
3DH5_Ant1_2441

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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	0.88697	2401.559	2402.446	---	PASS
		2441	0.89419	2440.554	2441.448	---	PASS
		2480	0.89750	2479.553	2480.450	---	PASS
2DH5	Ant1	2402	1.1990	2401.400	2402.599	---	PASS
		2441	1.1916	2440.404	2441.595	---	PASS
		2480	1.1930	2479.402	2480.595	---	PASS
3DH5	Ant1	2402	1.2137	2401.383	2402.597	---	PASS
		2441	1.2140	2440.383	2441.597	---	PASS
		2480	1.2110	2479.385	2480.596	---	PASS

Test Graphs



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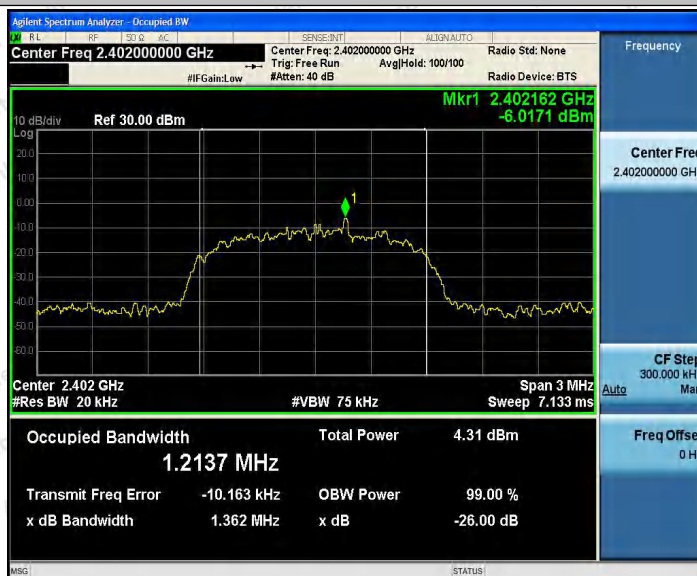
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2DH5_Ant1_2480



3DH5_Ant1_2402



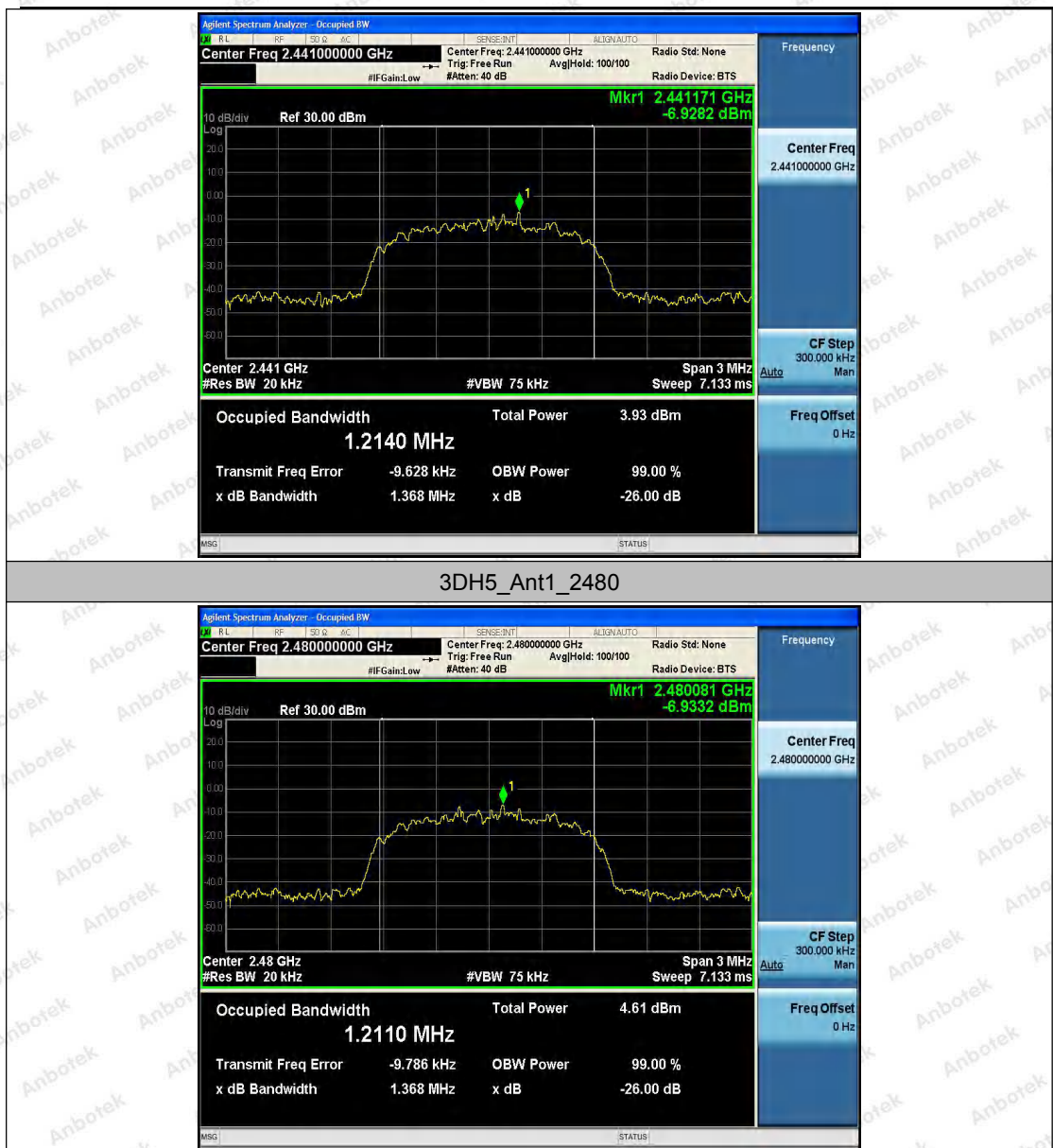
3DH5_Ant1_2441

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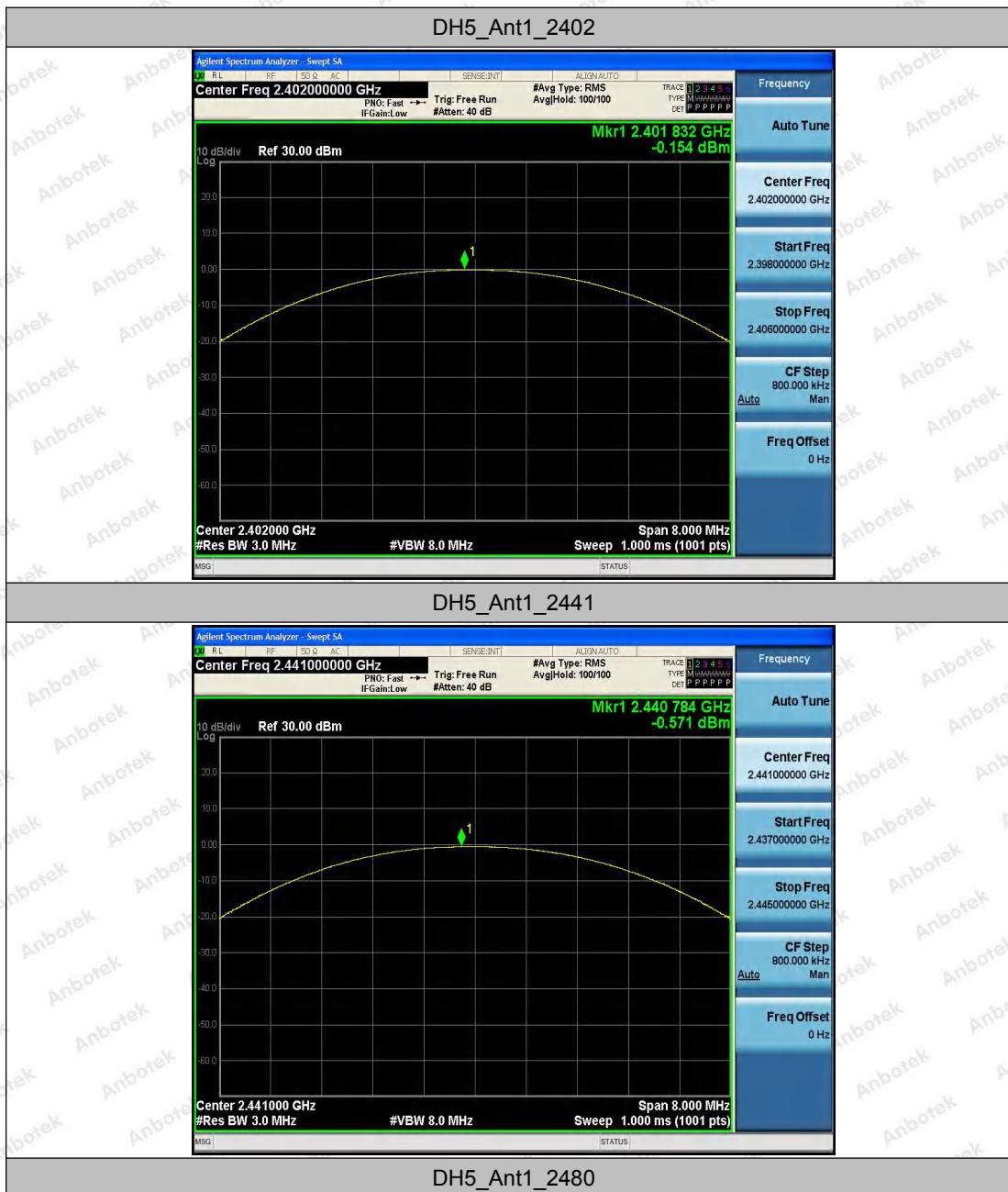
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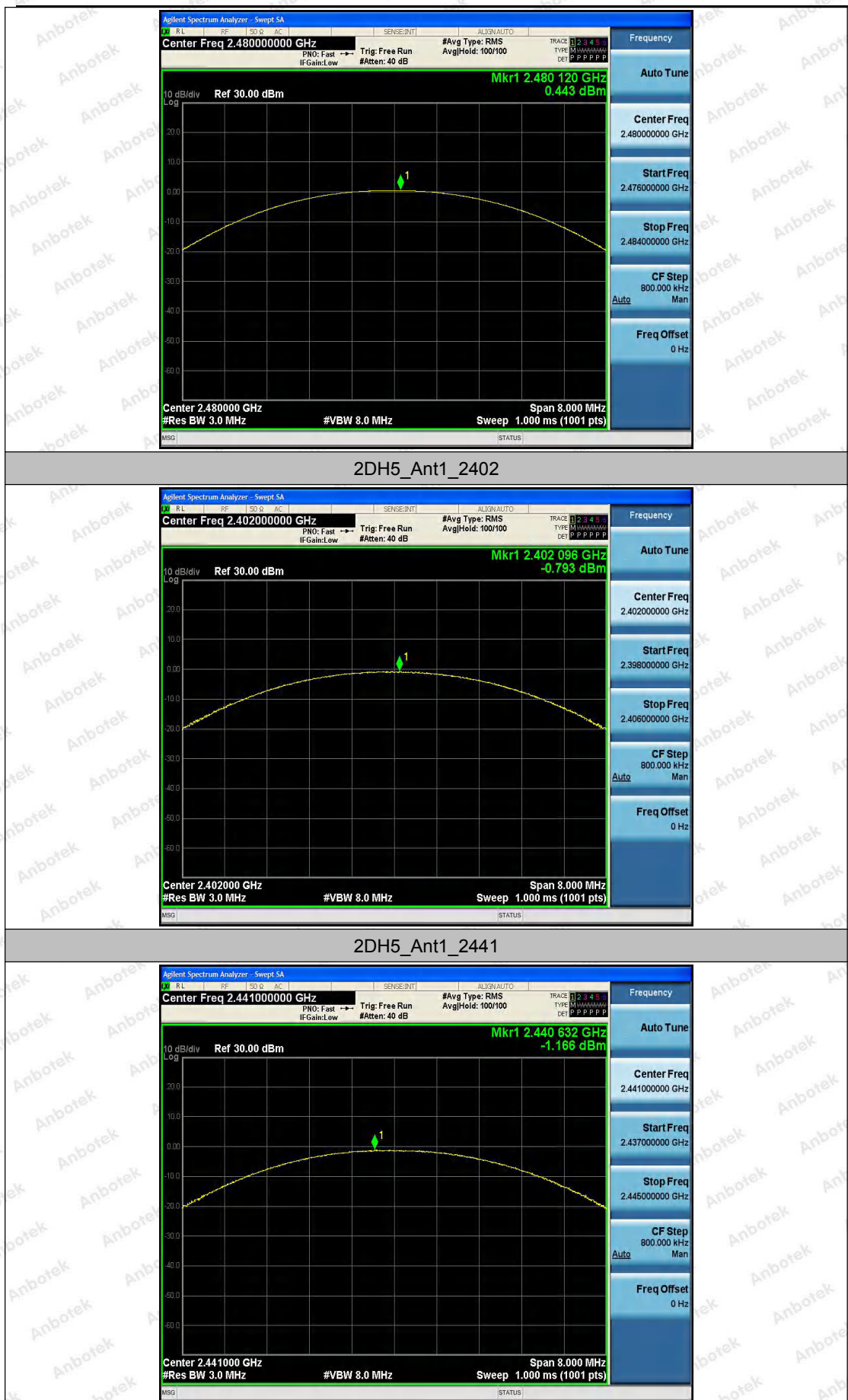
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.15	≤20.97	PASS
		2441	-0.57	≤20.97	PASS
		2480	0.44	≤20.97	PASS
2DH5	Ant1	2402	-0.79	≤20.97	PASS
		2441	-1.17	≤20.97	PASS
		2480	-0.27	≤20.97	PASS
3DH5	Ant1	2402	-0.68	≤20.97	PASS
		2441	-1.1	≤20.97	PASS
		2480	-0.15	≤20.97	PASS

Test Graphs





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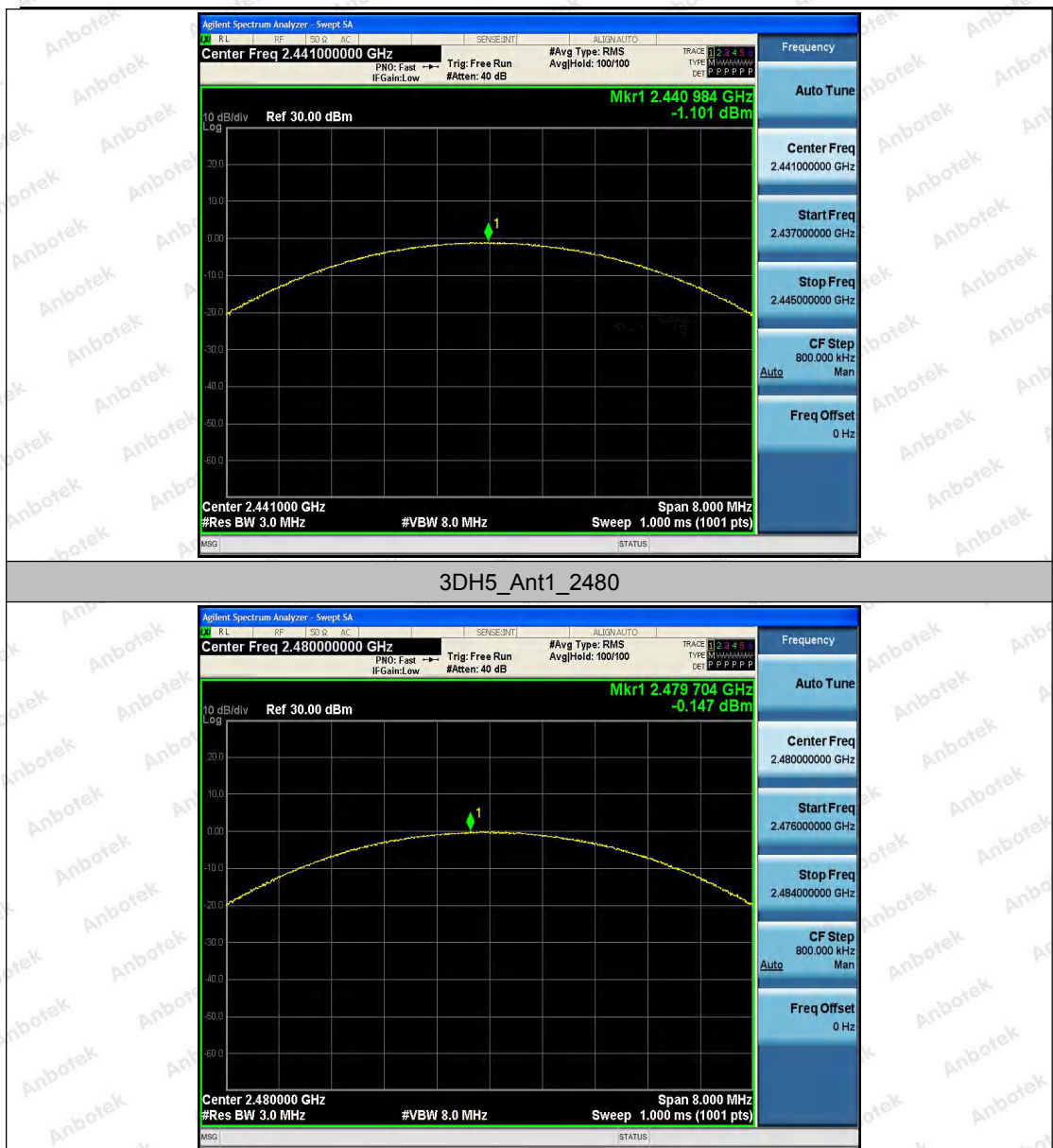


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.876	≥ 0.634	PASS
2DH5	Ant1	Hop	0.994	≥ 0.892	PASS
3DH5	Ant1	Hop	1.05	≥ 0.888	PASS

Test Graphs



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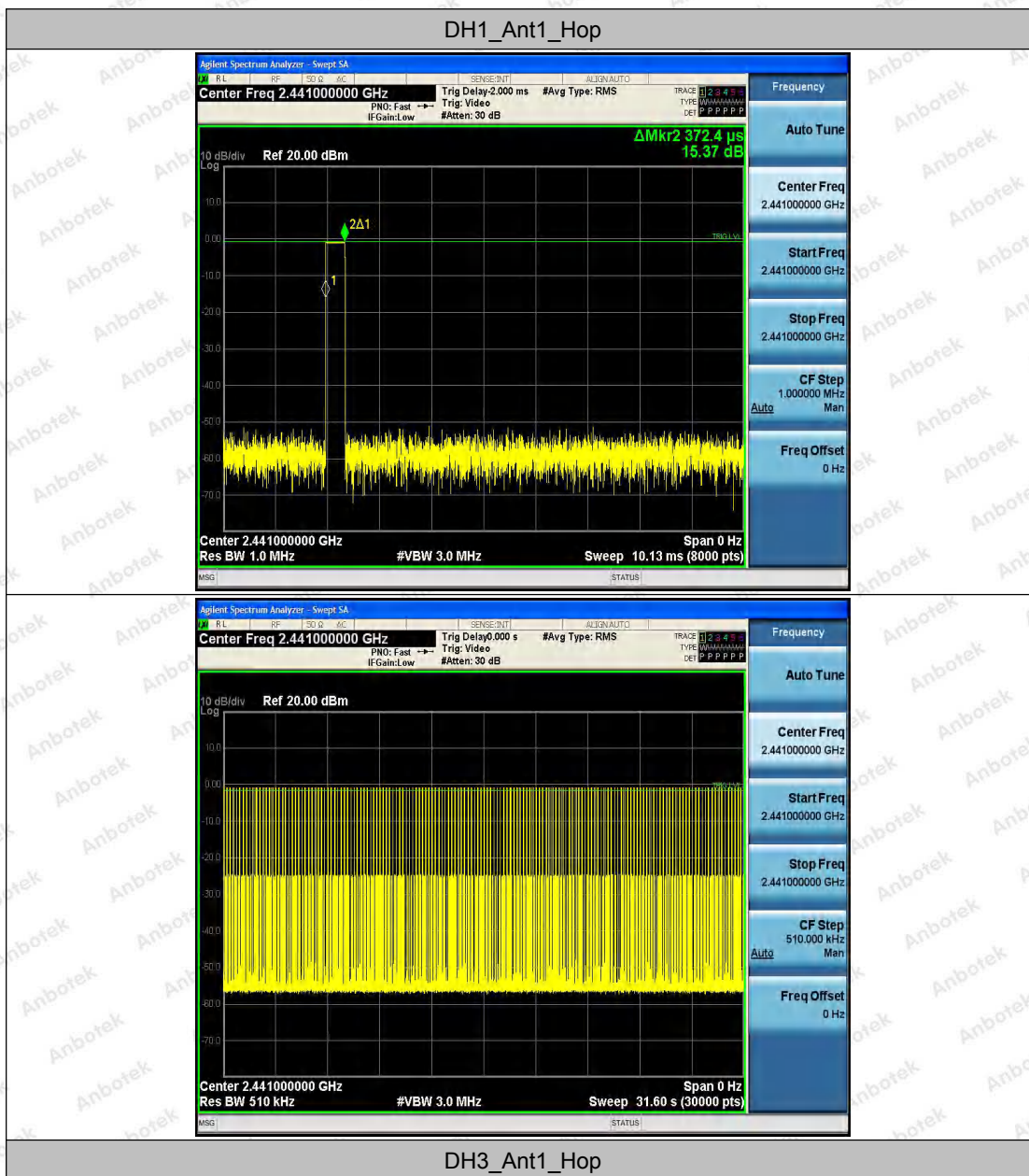
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Appendix E: Time of occupancy

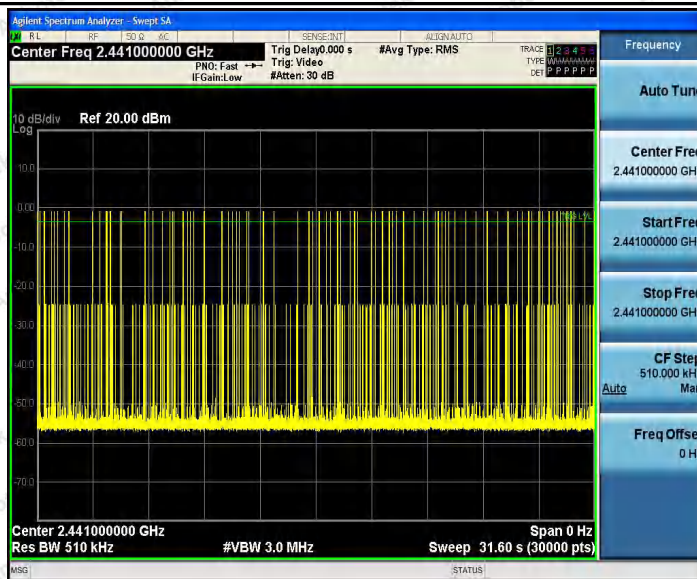
Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

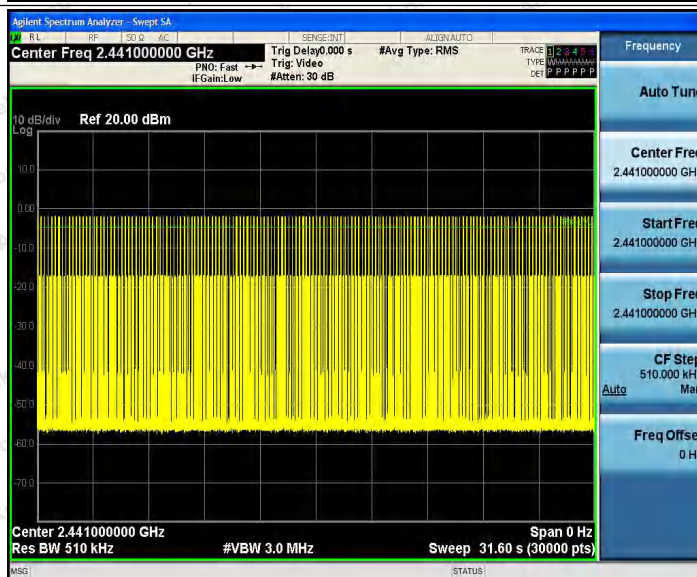
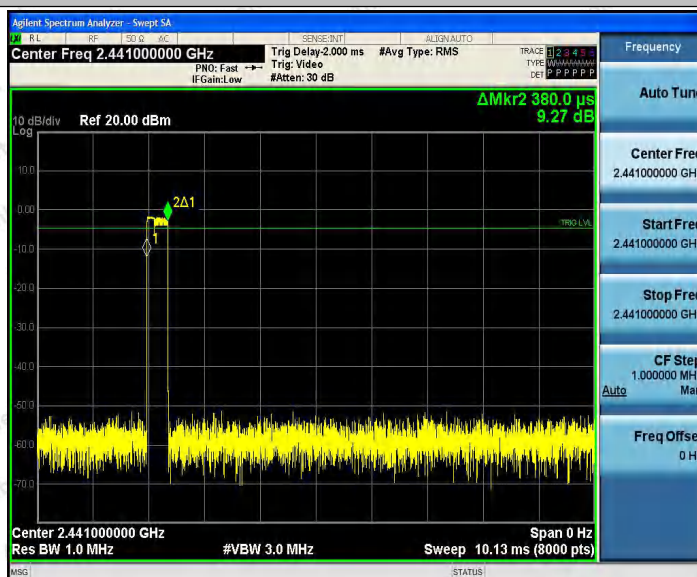
Test Graphs







2DH1_Ant1_Hop



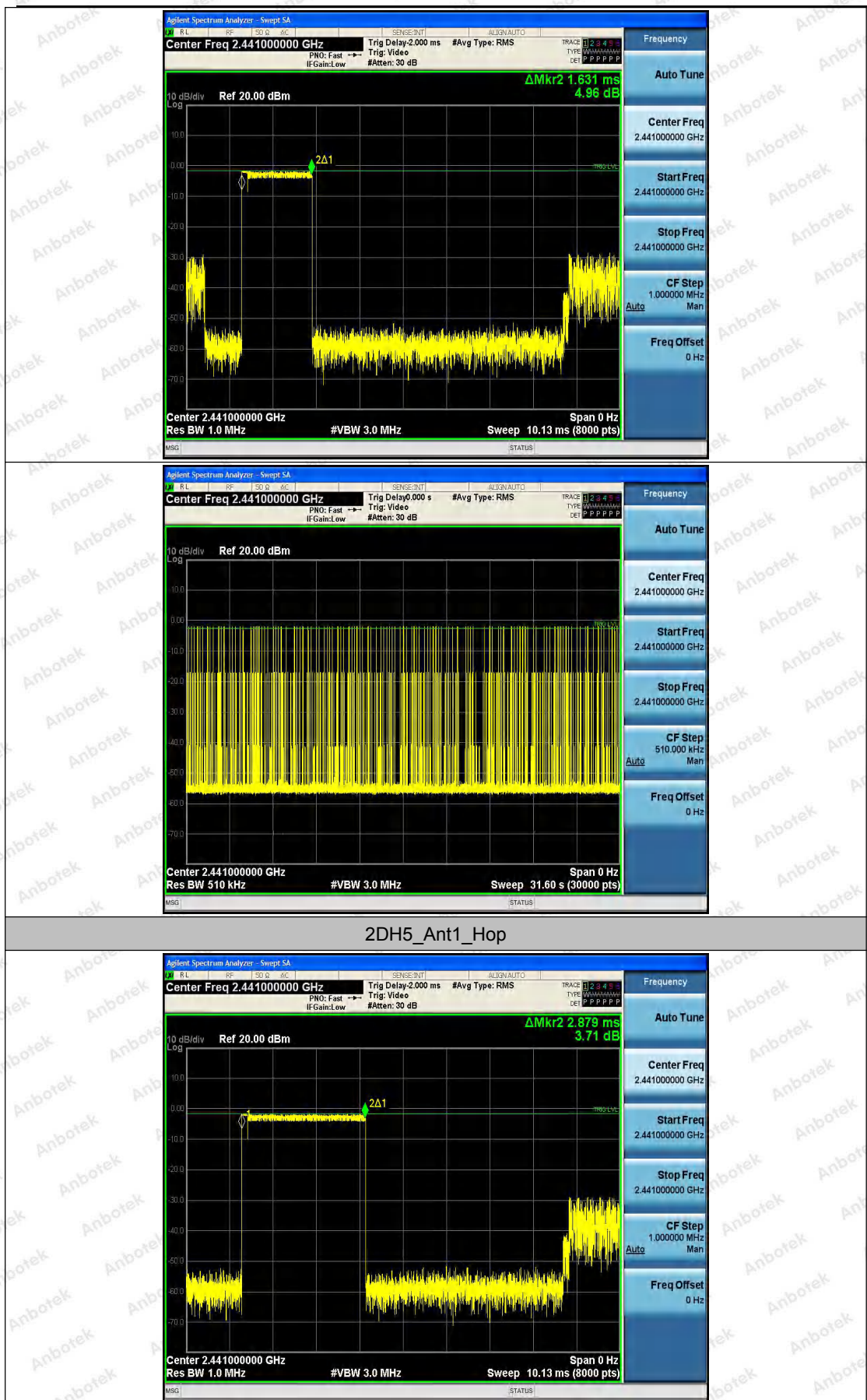
2DH3_Ant1_Hop

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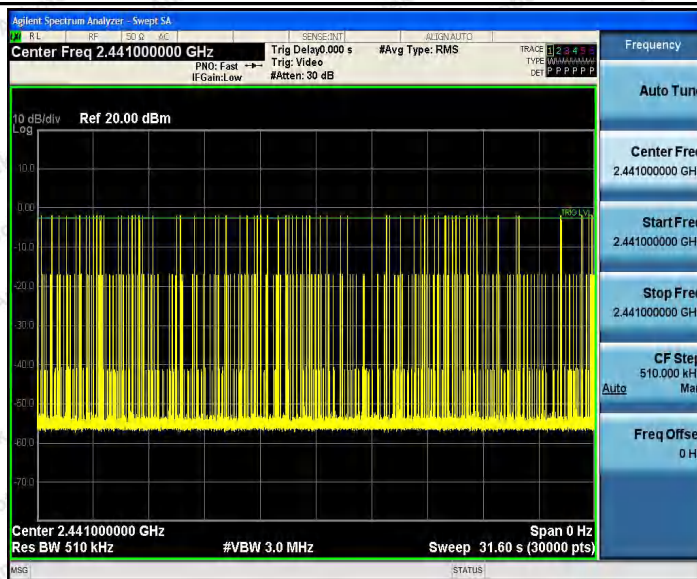
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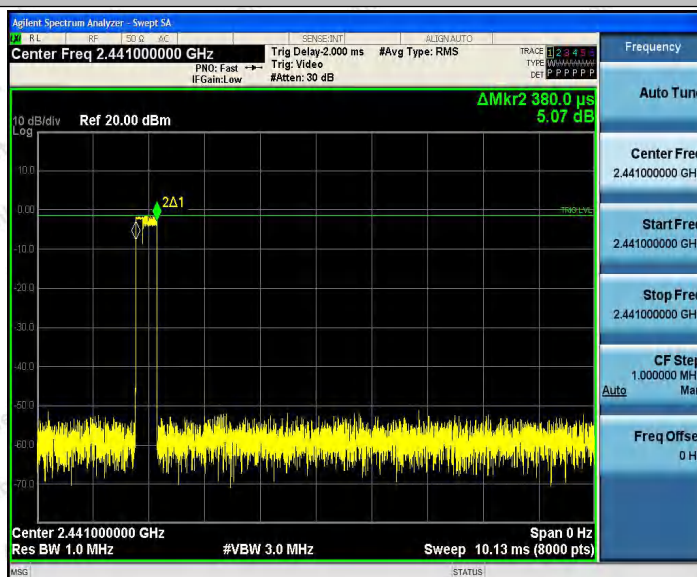
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



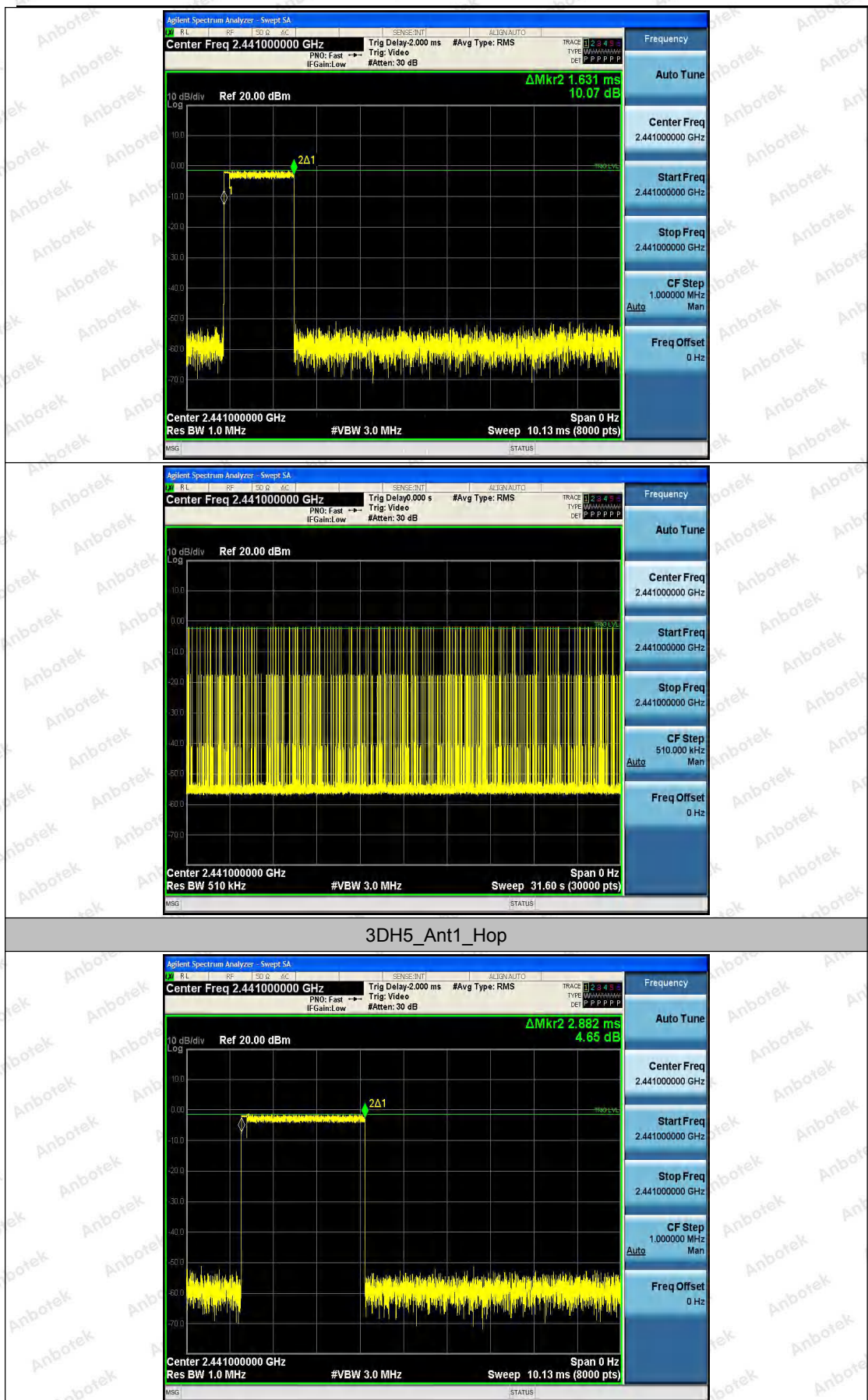
3DH3_Ant1_Hop

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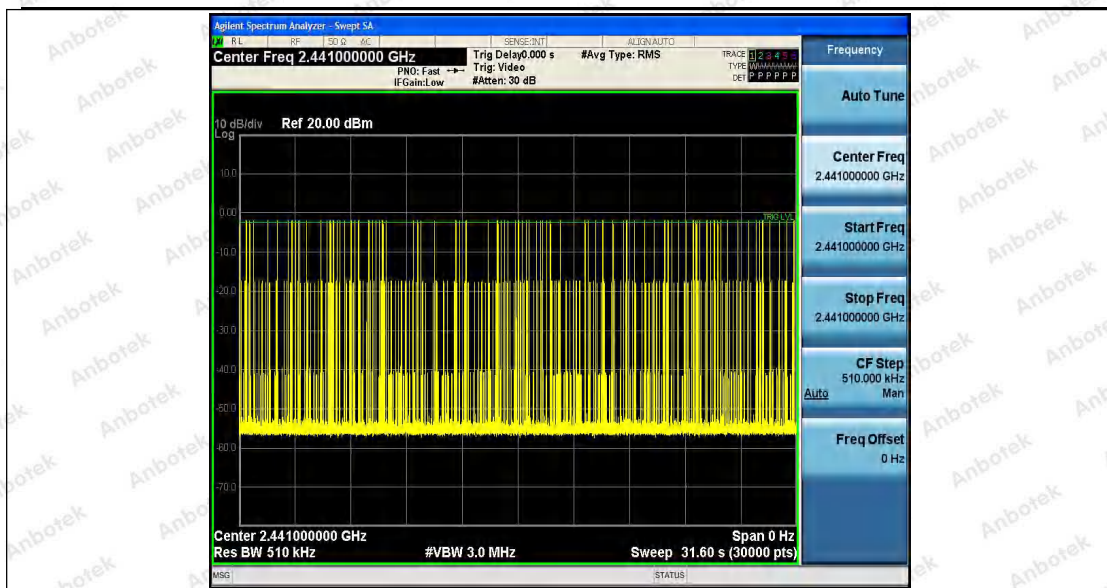
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3DH5_Ant1_Hop



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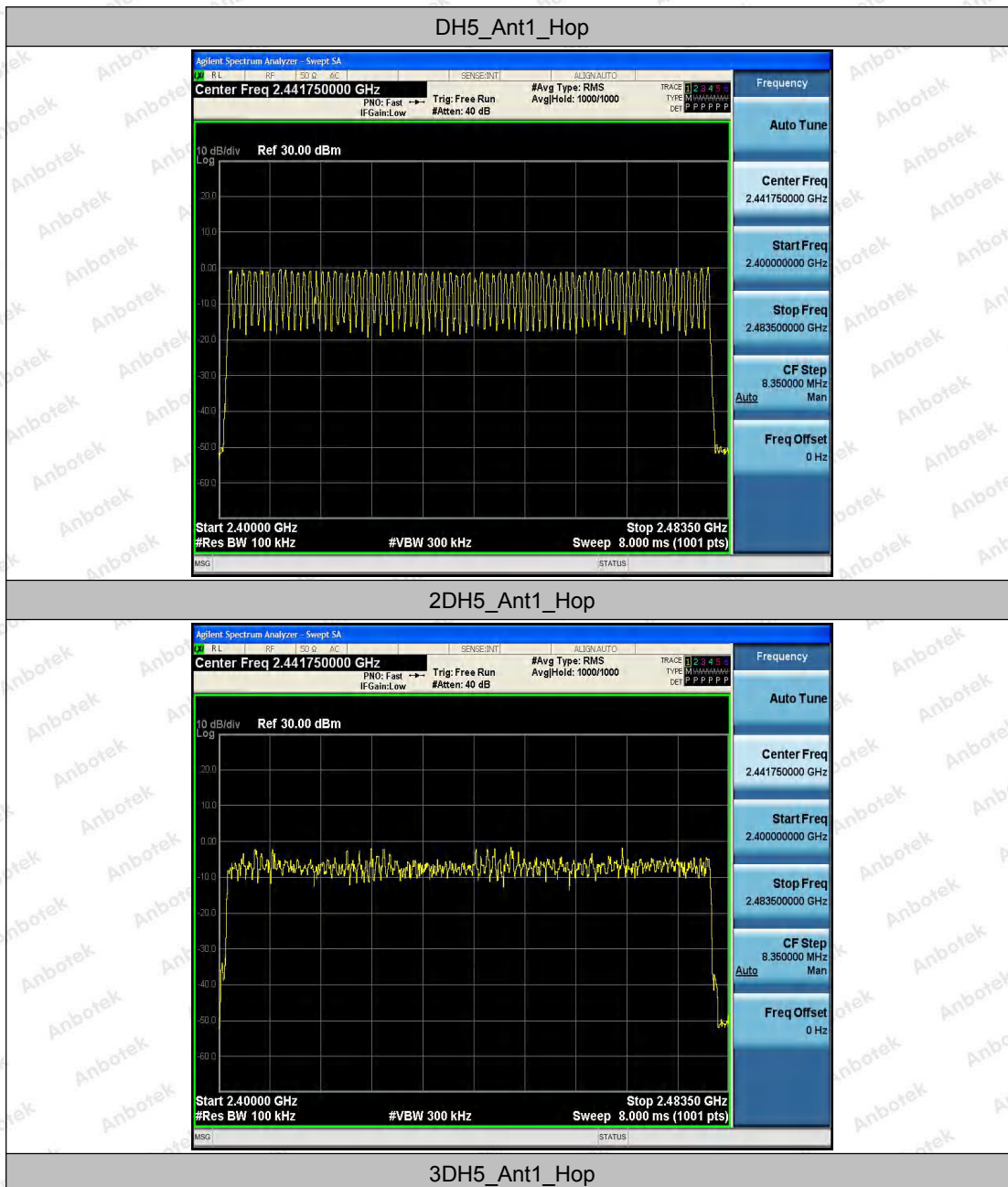
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Appendix F: Number of hopping channels

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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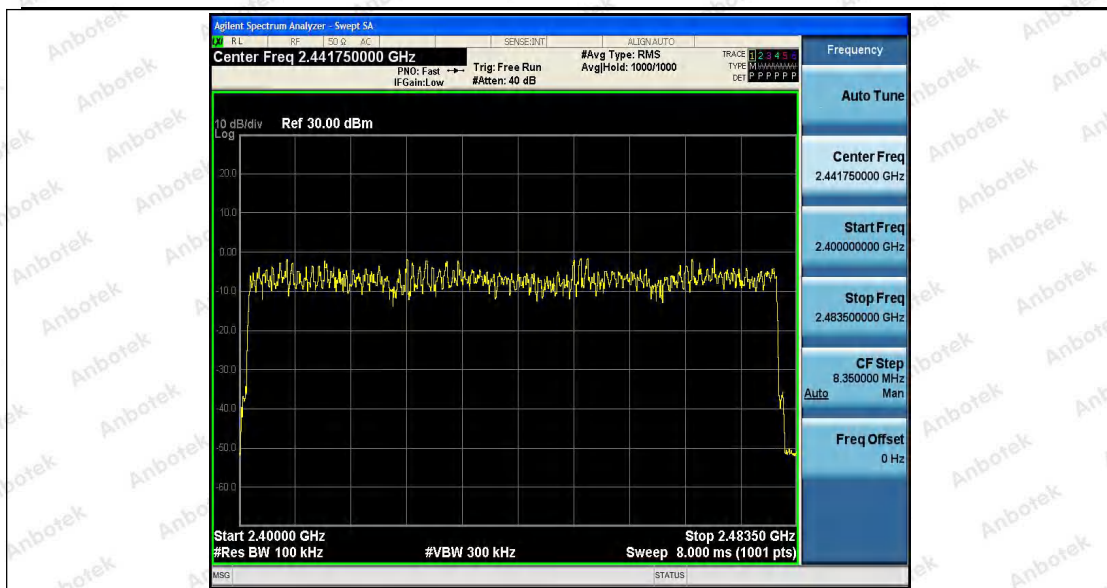
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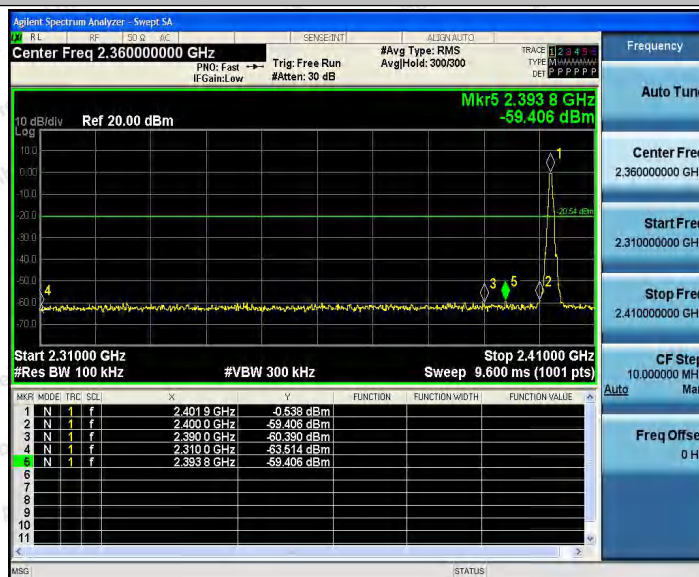
Appendix G: Band edge measurements

Test Result

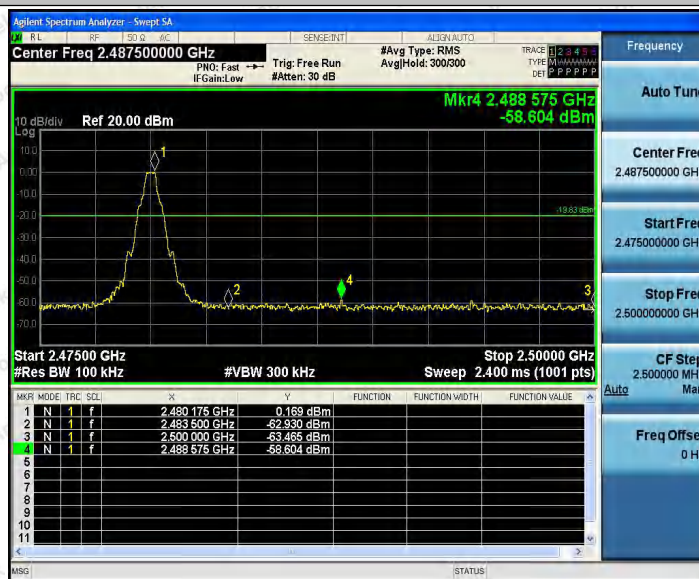
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-59.41	≤-20.54	PASS
		High	2480	0.17	-58.6	≤-19.83	PASS
		Low	Hop	-0.72	-59.39	≤-20.72	PASS
		High	Hop	-0.24	-63.7	≤-20.24	PASS
2DH5	Ant1	Low	2402	-1.81	-57.12	≤-21.81	PASS
		High	2480	-1.03	-58.17	≤-21.03	PASS
		Low	Hop	-3.32	-59.02	≤-23.32	PASS
		High	Hop	-4.63	-63.25	≤-24.63	PASS
3DH5	Ant1	Low	2402	-2.45	-56.81	≤-22.45	PASS
		High	2480	-1.07	-59.4	≤-21.07	PASS
		Low	Hop	-5.32	-59.51	≤-25.32	PASS
		High	Hop	-4.72	-62.47	≤-24.72	PASS

Test Graphs

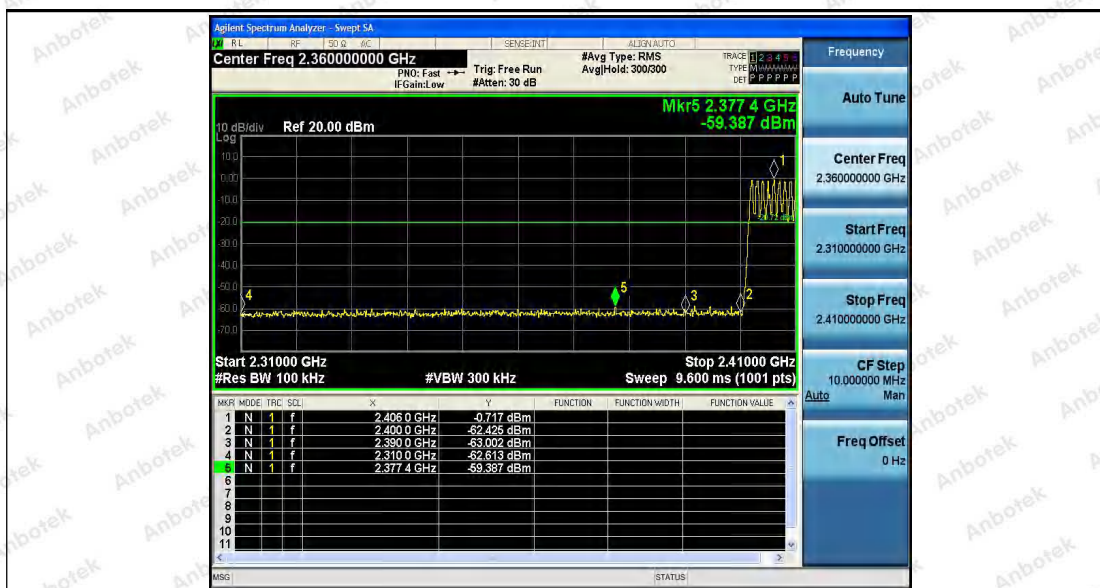
DH5_Ant1_Low_2402



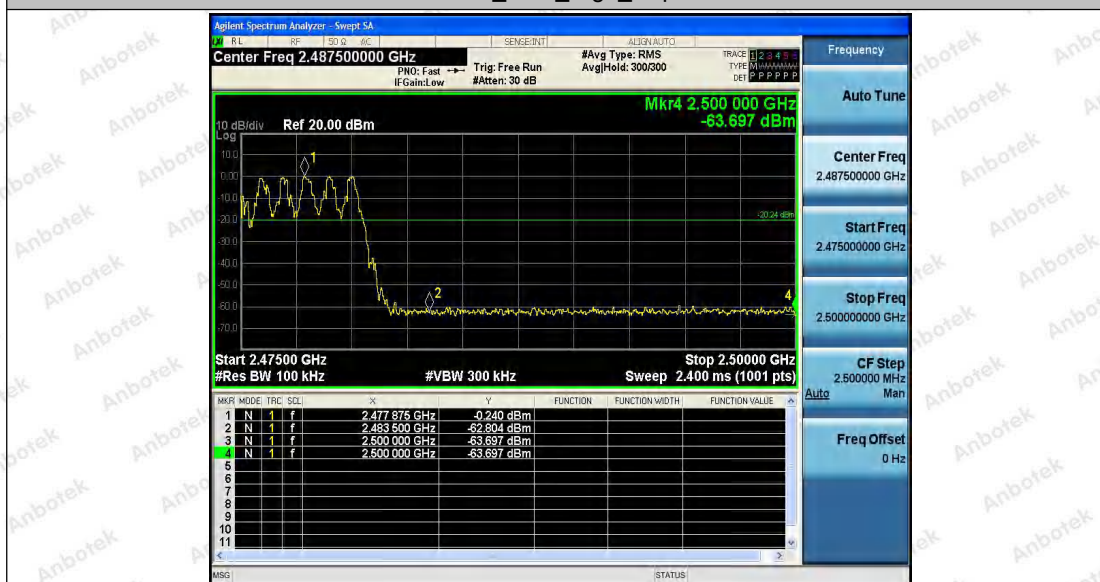
DH5_Ant1_High_2480



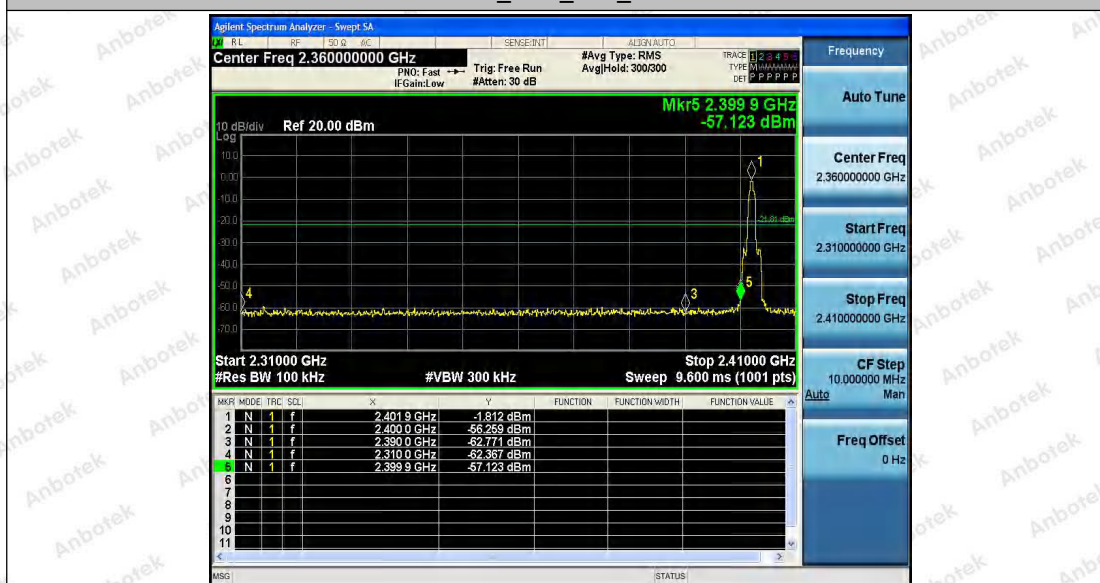
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



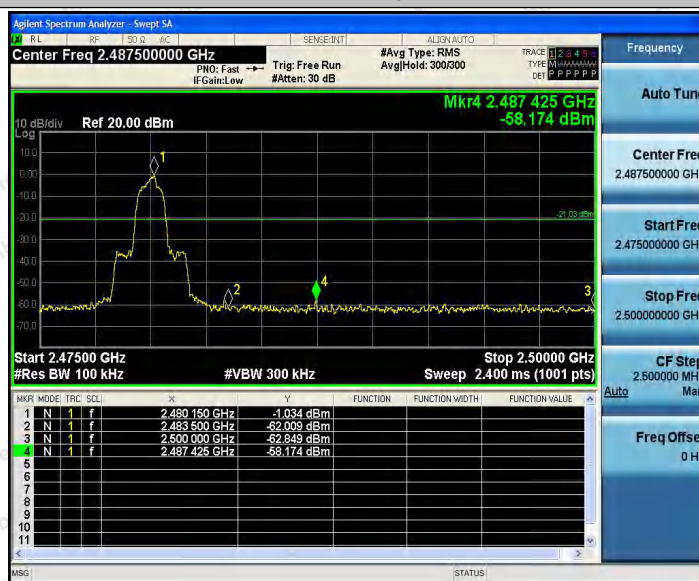
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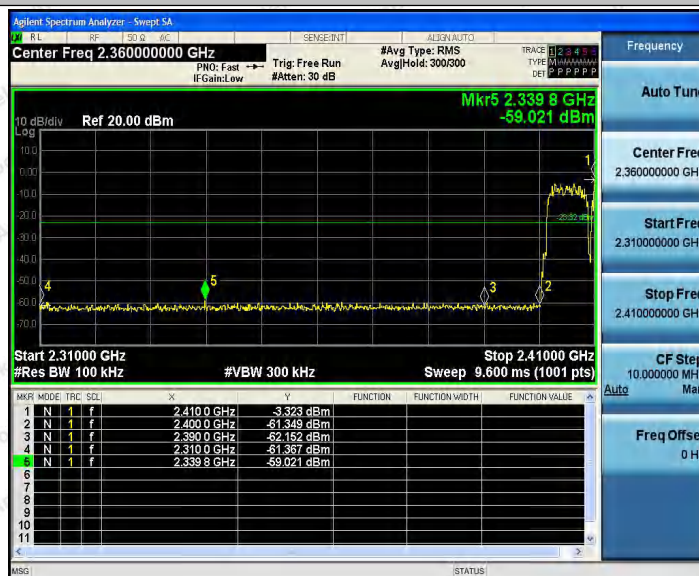
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



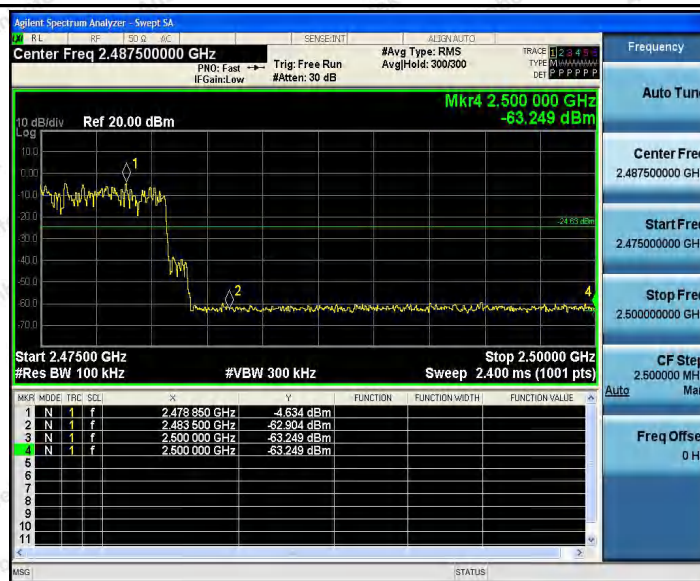
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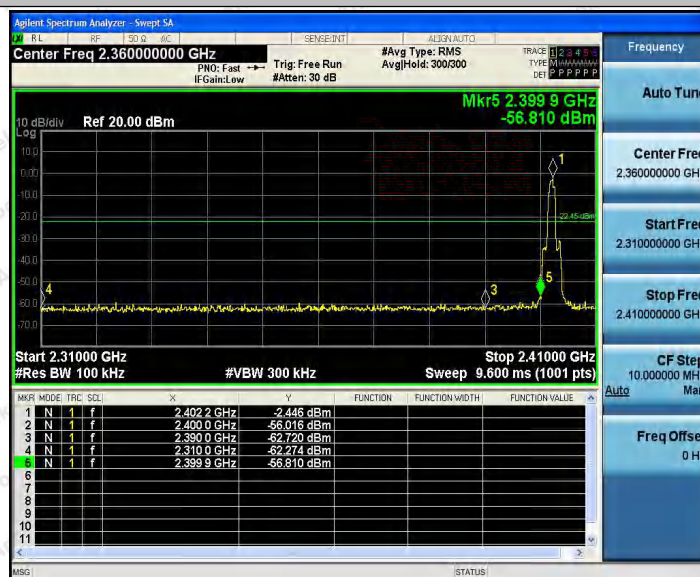
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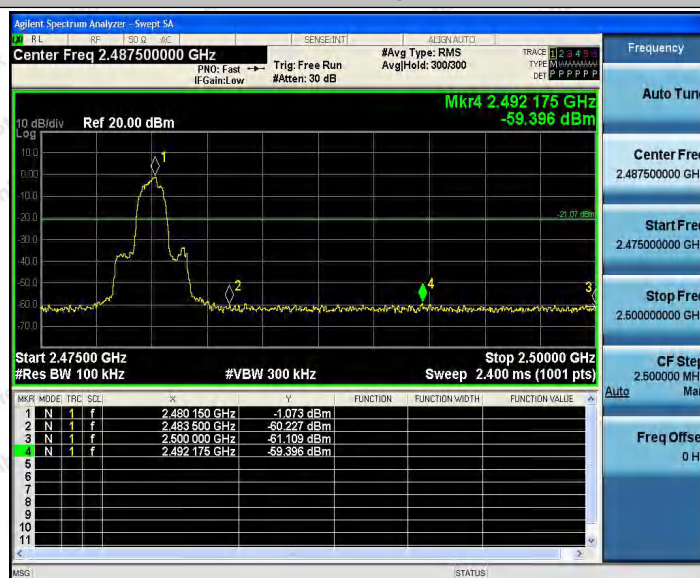
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

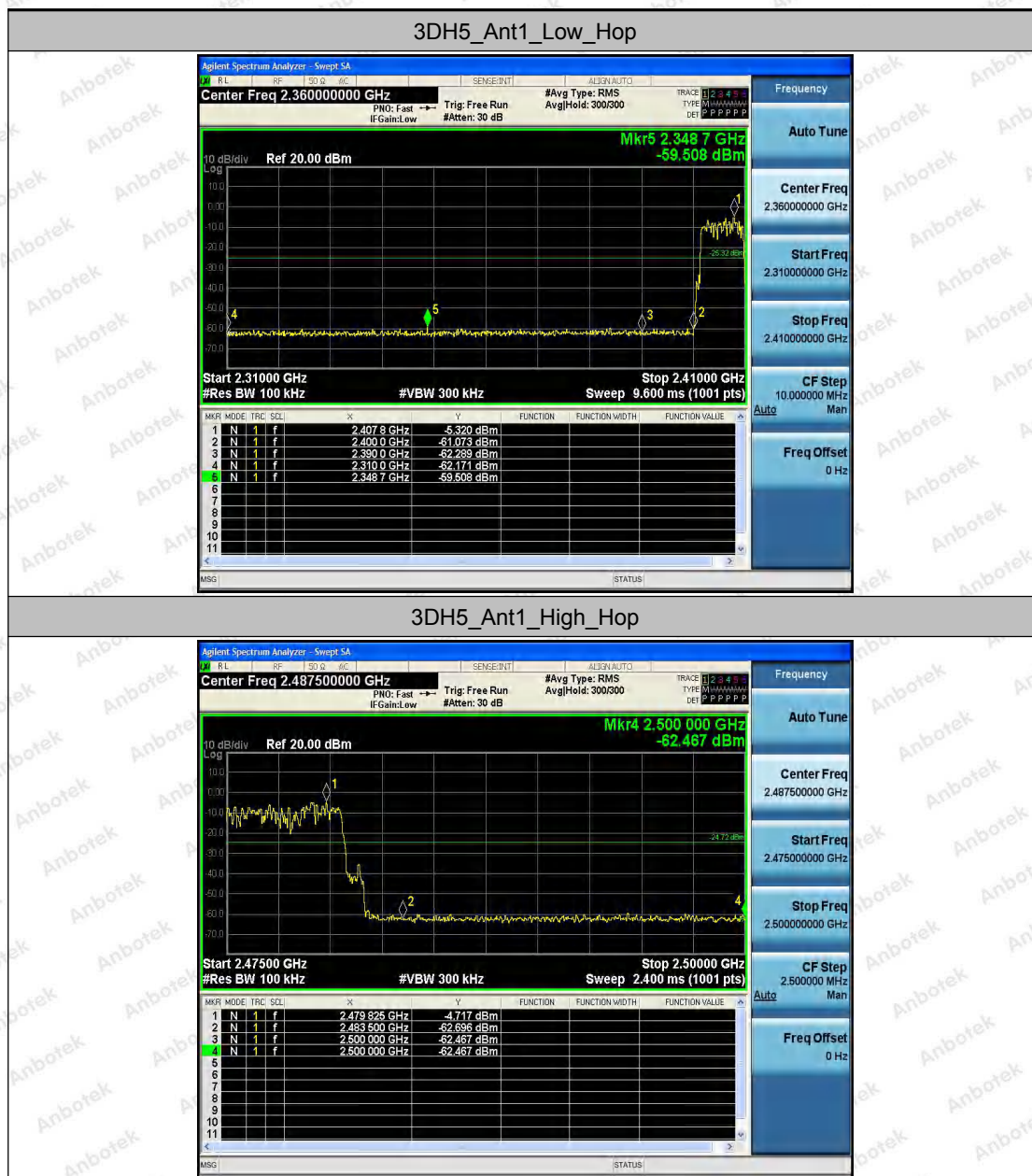


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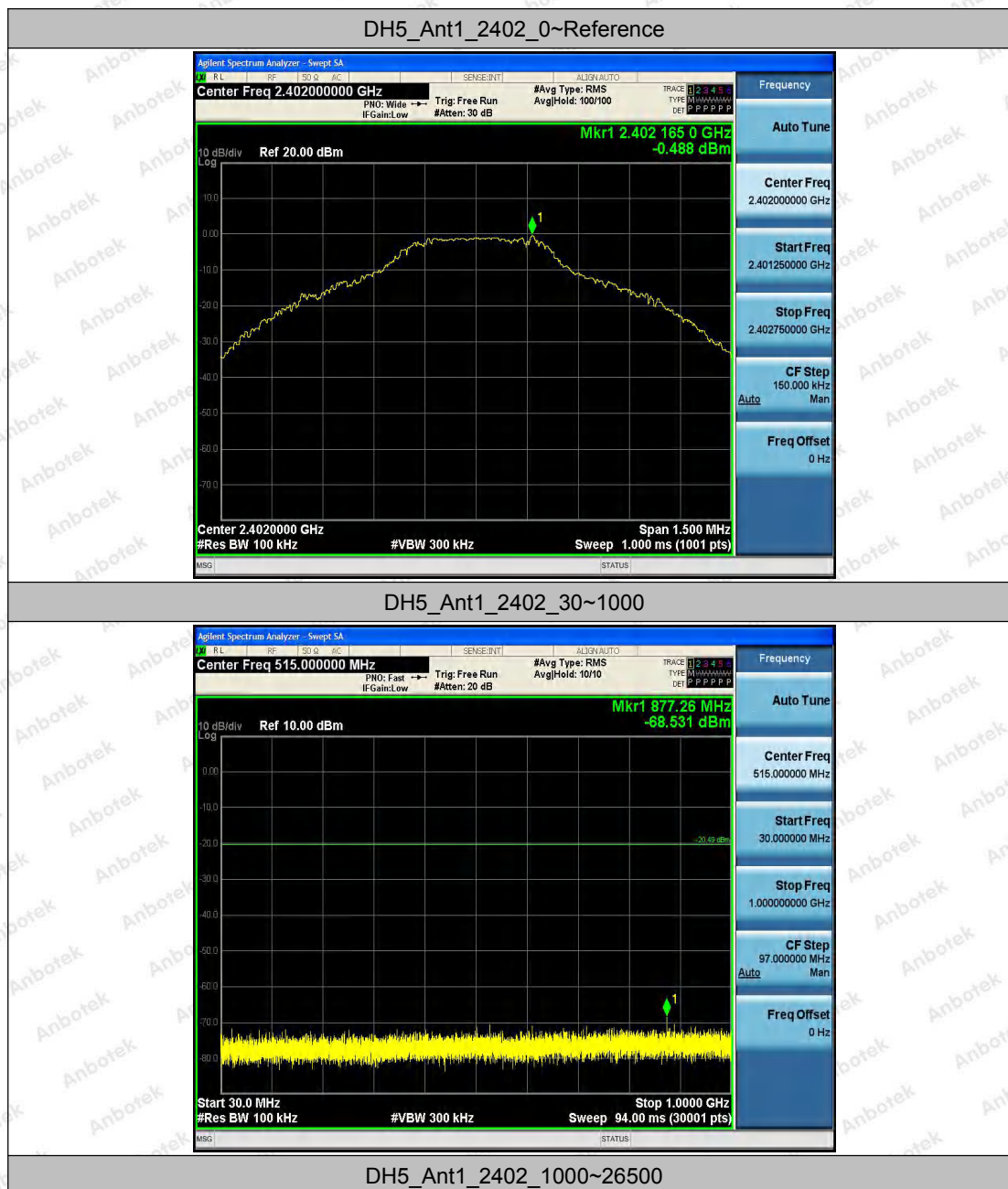
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-68.53	≤ -20.49	PASS
			1000~26500	-0.49	-55.77	≤ -20.49	PASS
		2441	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-70.46	≤ -21.3	PASS
			1000~26500	-1.30	-54.32	≤ -21.3	PASS
		2480	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-70.24	≤ -20.39	PASS
			1000~26500	-0.39	-55.46	≤ -20.39	PASS
2DH5	Ant1	2402	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-70.66	≤ -21.66	PASS
			1000~26500	-1.66	-55.88	≤ -21.66	PASS
		2441	Reference	-2.64	-2.64	---	PASS
			30~1000	-2.64	-70.16	≤ -22.64	PASS
			1000~26500	-2.64	-54.16	≤ -22.64	PASS
		2480	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-70	≤ -21.63	PASS
			1000~26500	-1.63	-56.24	≤ -21.63	PASS
3DH5	Ant1	2402	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-70.27	≤ -21.77	PASS
			1000~26500	-1.77	-54.86	≤ -21.77	PASS
		2441	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-70.25	≤ -21.97	PASS
			1000~26500	-1.97	-55.43	≤ -21.97	PASS
		2480	Reference	-2.43	-2.43	---	PASS
			30~1000	-2.43	-69.05	≤ -22.43	PASS
			1000~26500	-2.43	-55.91	≤ -22.43	PASS

Test Graphs



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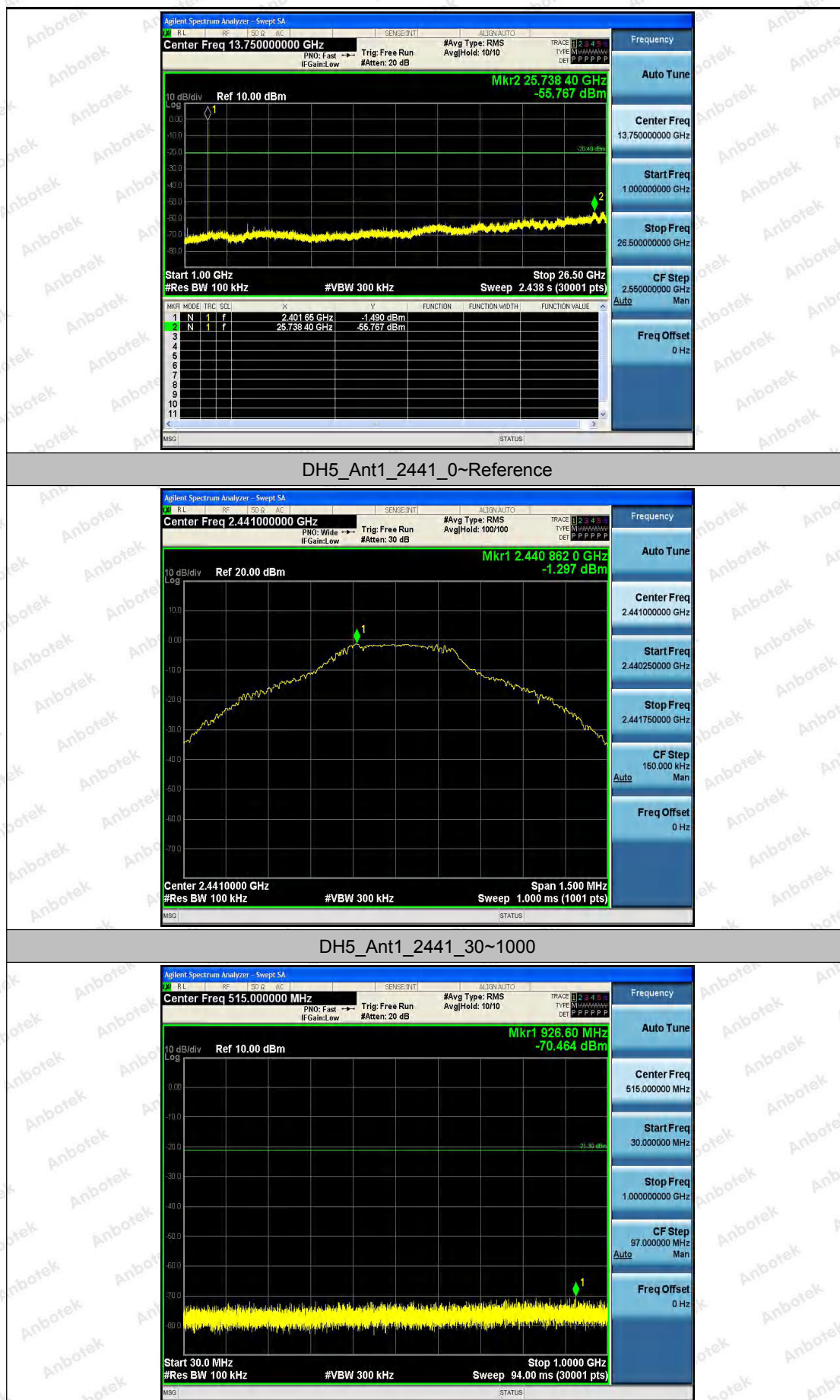
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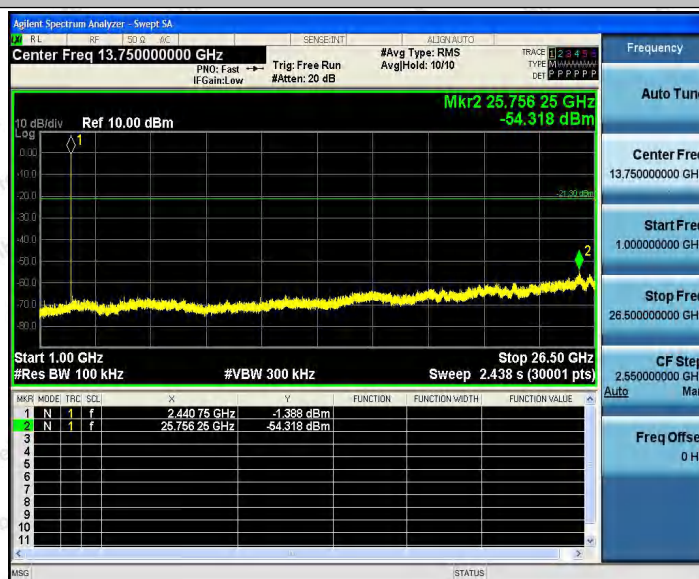
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



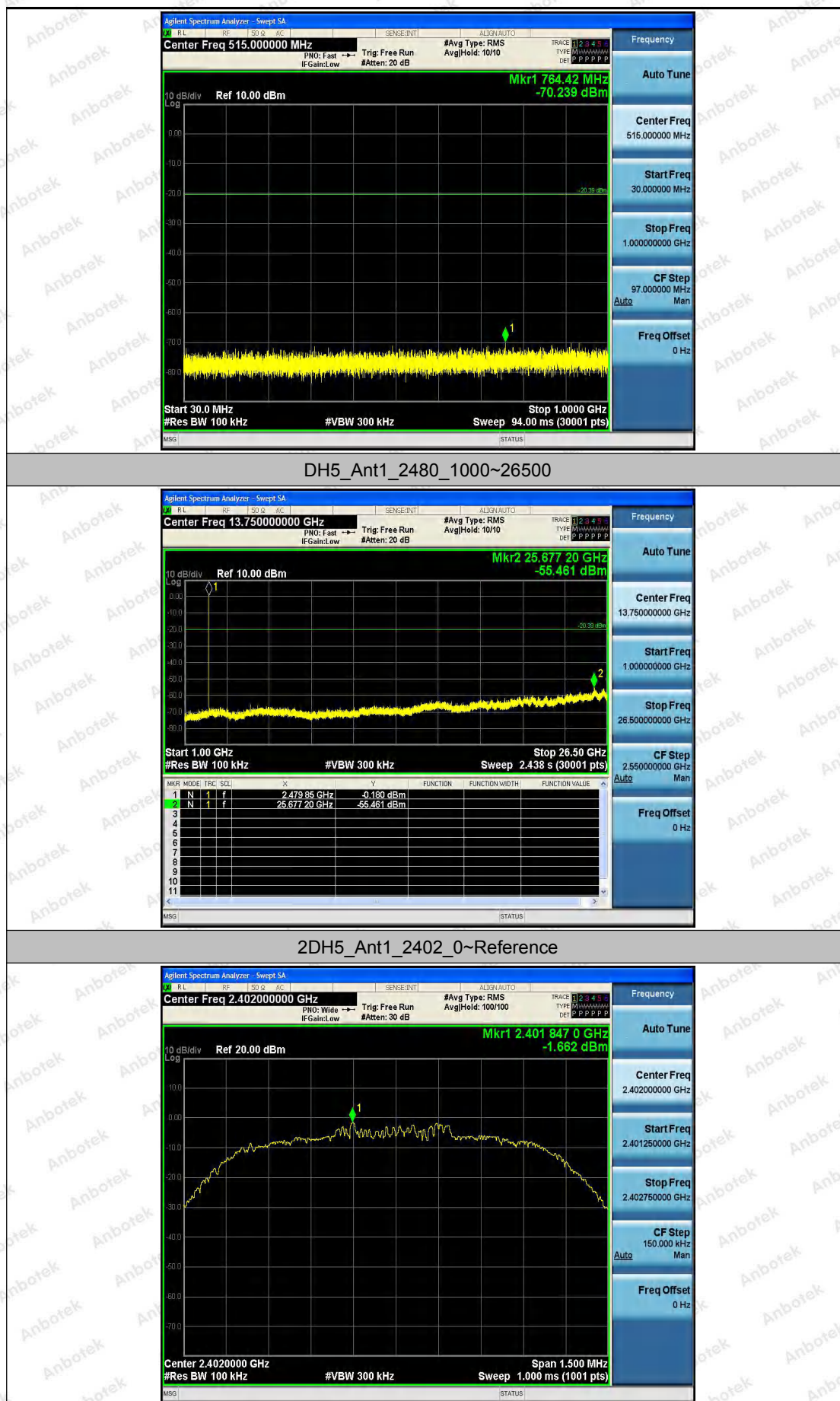
DH5_Ant1_2480_30~1000

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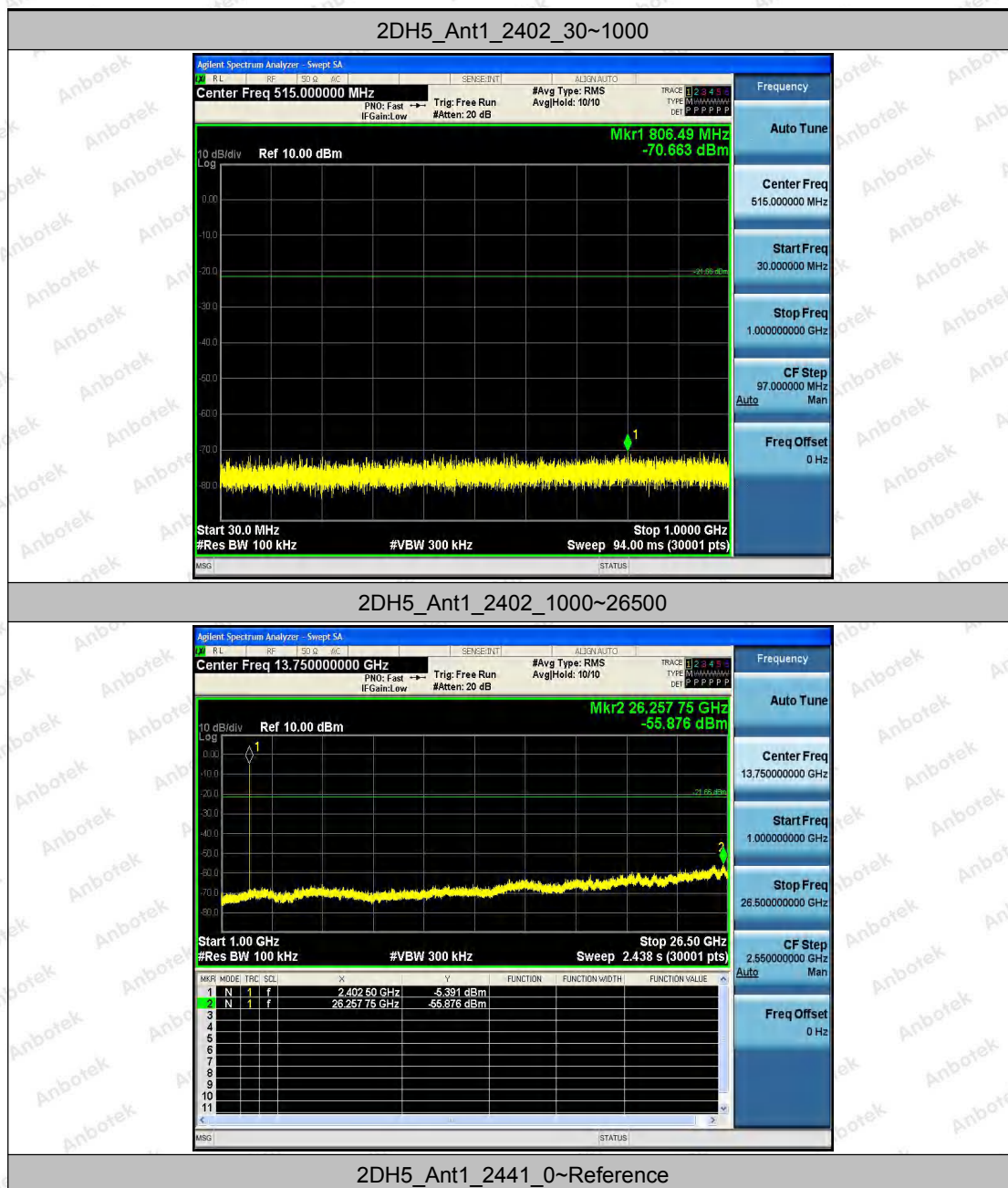


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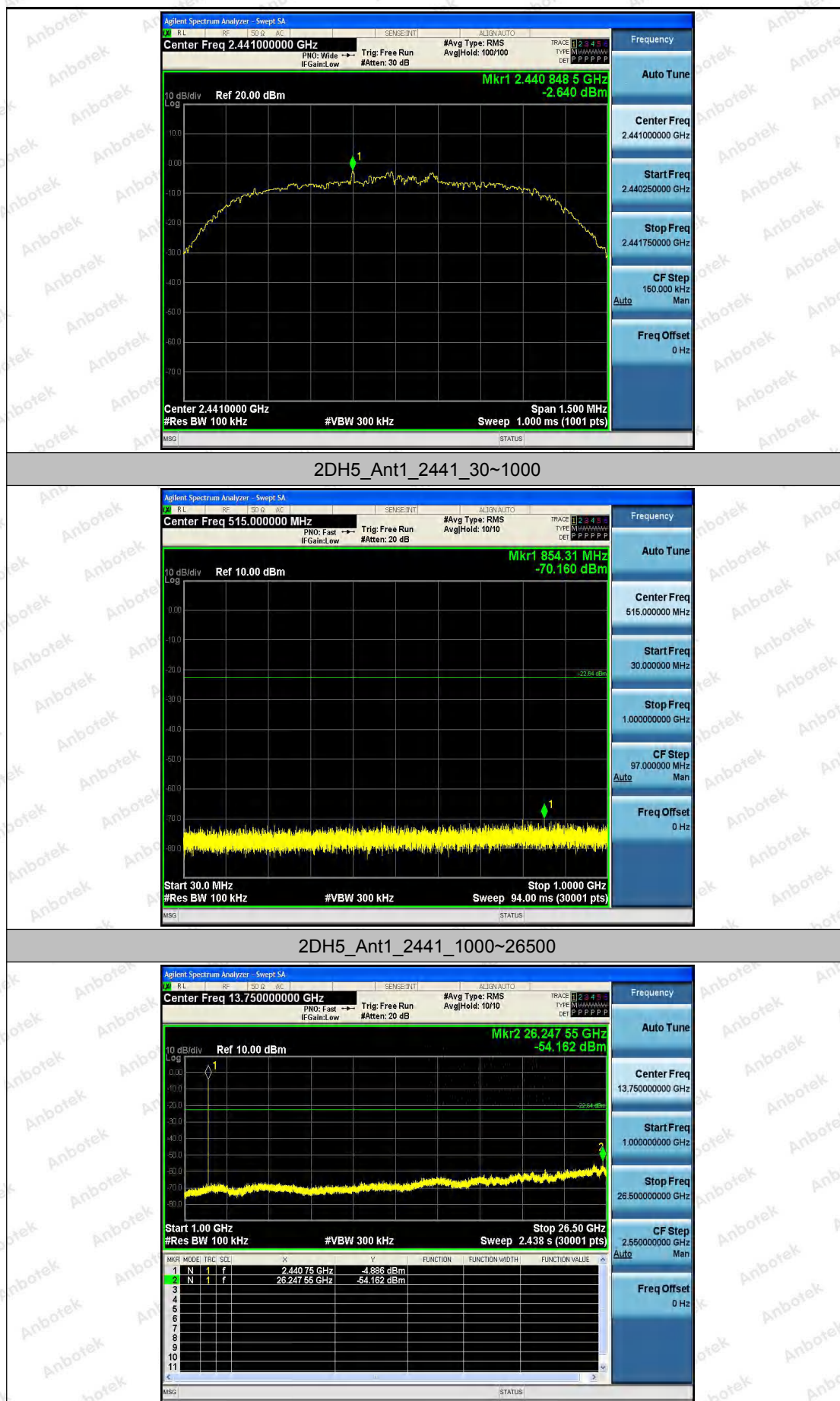


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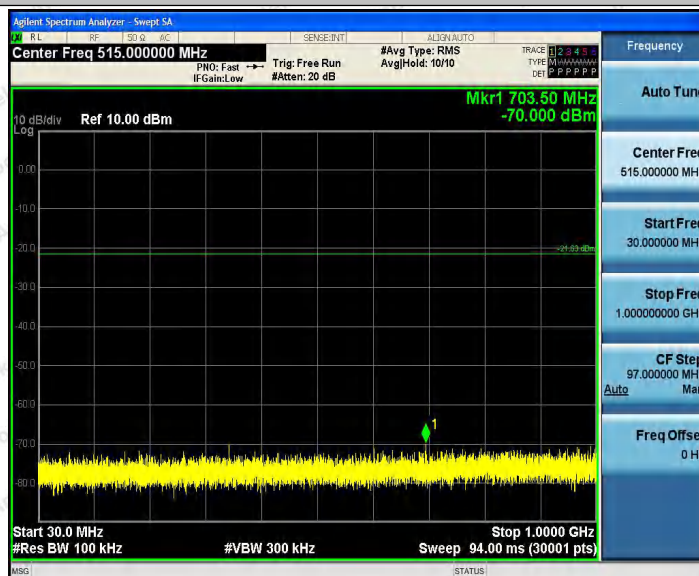
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



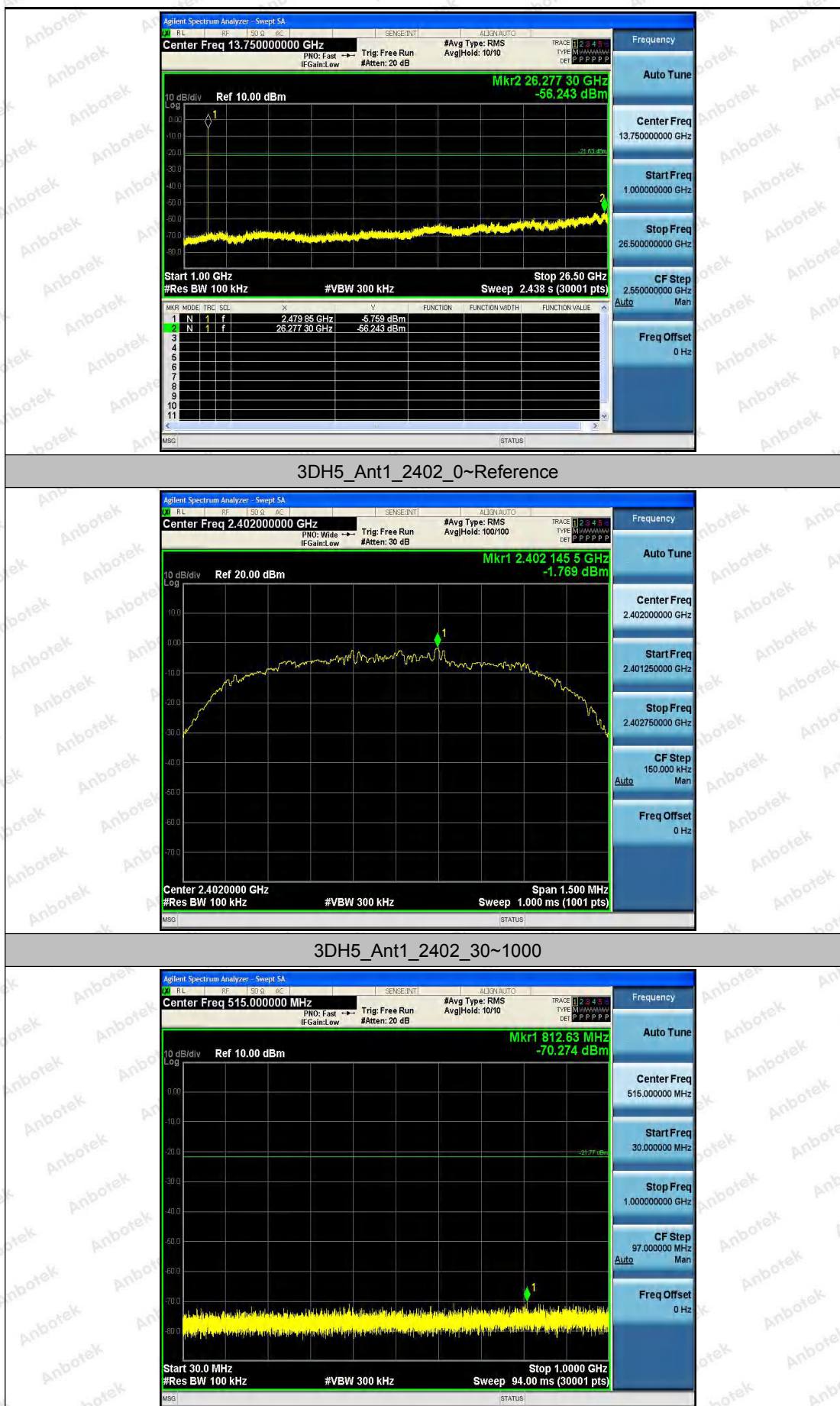
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



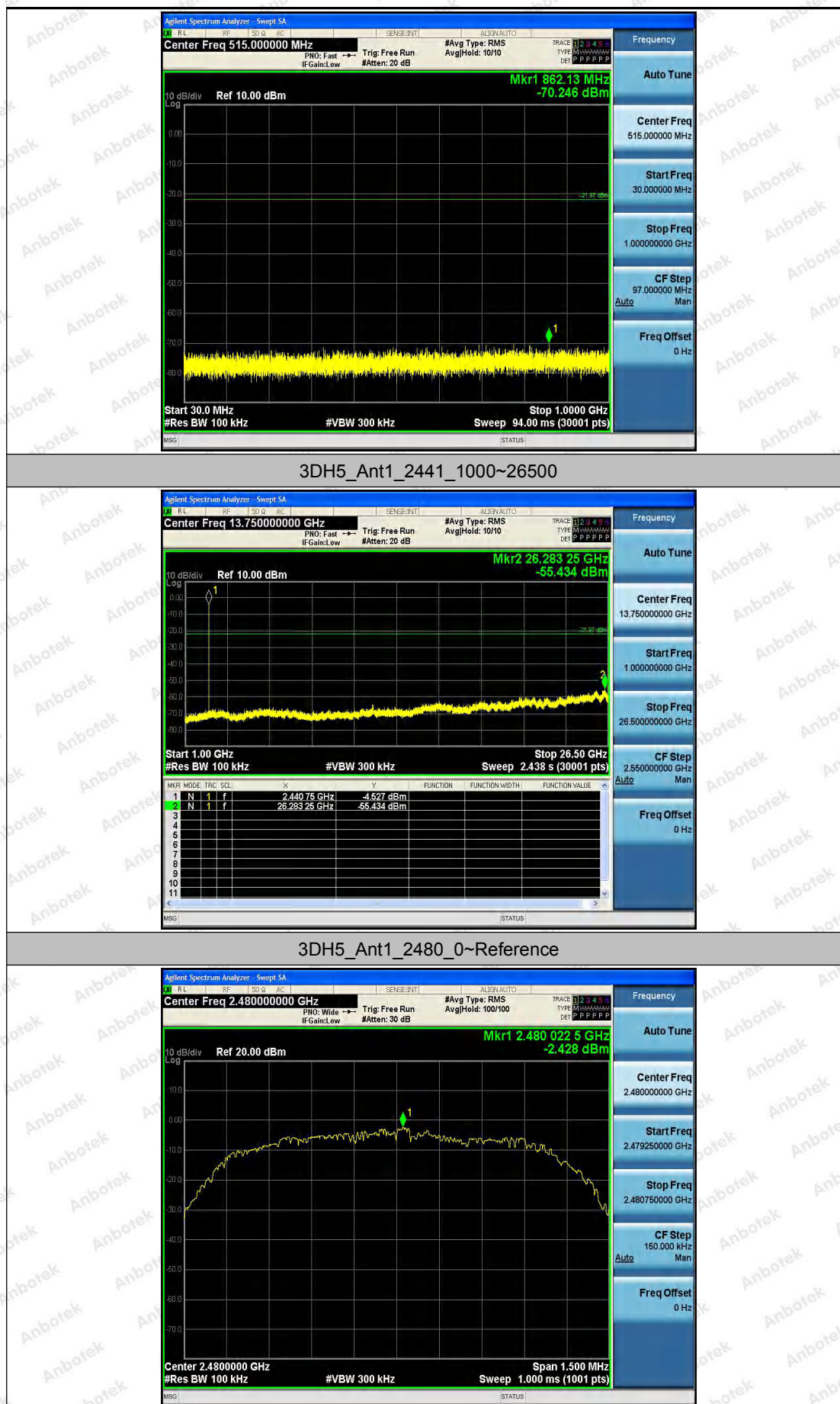
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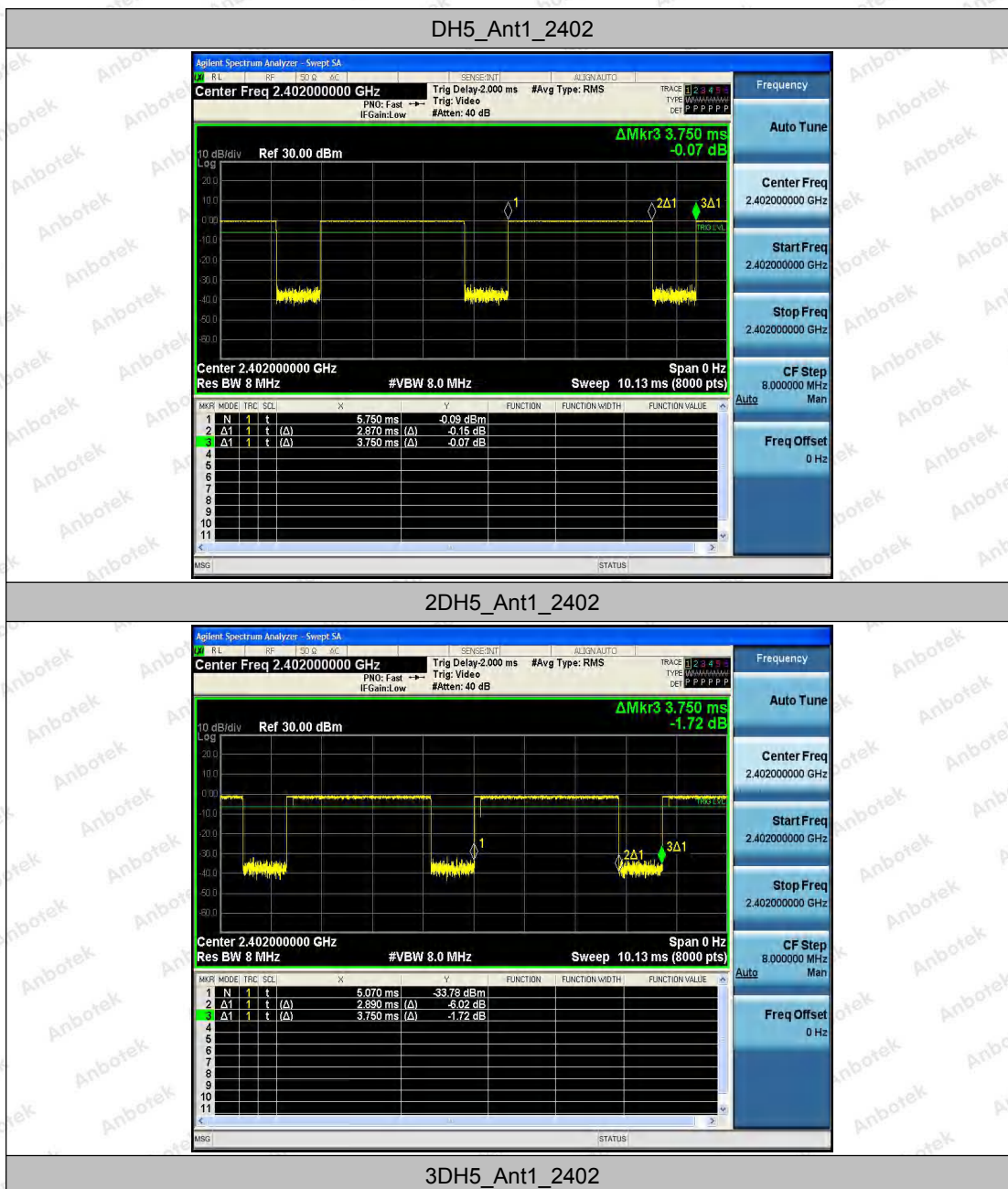
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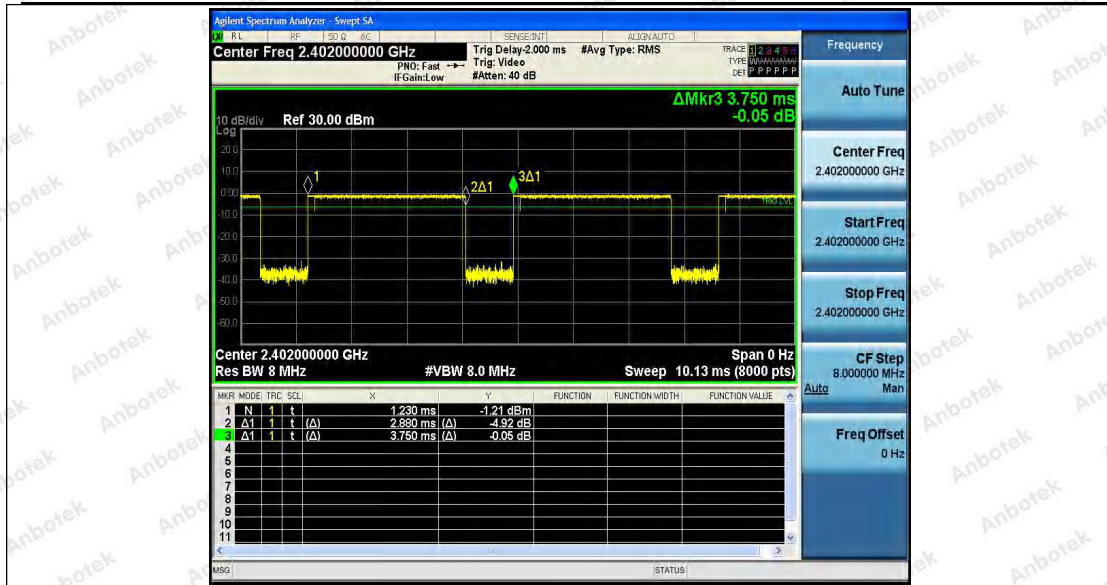
Appendix I: Duty Cycle

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---