

Appendix Test Data

Report No.:	18220WC20020701	Test Sample No.:	1-2-2
Start Test Date:	2022.2.17	Finish Test Date:	2022.2.22
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	0.948	2401.541	2402.489	---	PASS
		2441	0.948	2440.541	2441.489	---	PASS
		2480	0.951	2479.541	2480.492	---	PASS
2DH5	Ant1	2402	1.317	2401.343	2402.660	---	PASS
		2441	1.326	2440.340	2441.666	---	PASS
		2480	1.317	2479.343	2480.660	---	PASS
3DH5	Ant1	2402	1.314	2401.346	2402.660	---	PASS
		2441	1.341	2440.328	2441.669	---	PASS
		2480	1.311	2479.349	2480.660	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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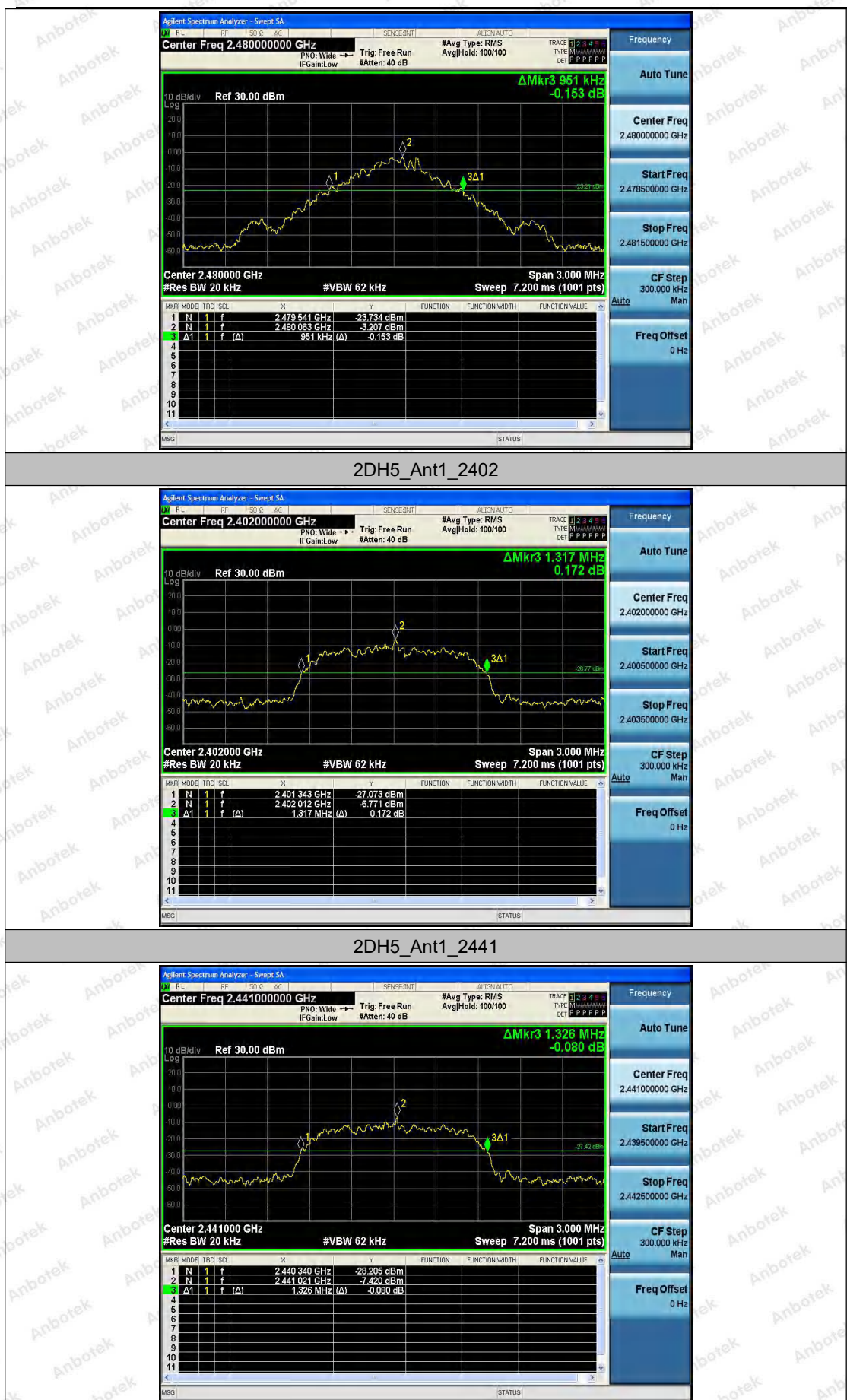
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88768	2401.561	2402.449	---	PASS
		2441	0.88530	2440.562	2441.448	---	PASS
		2480	0.89468	2479.556	2480.451	---	PASS
2DH5	Ant1	2402	1.2052	2401.402	2402.607	---	PASS
		2441	1.1985	2440.404	2441.602	---	PASS
		2480	1.1869	2479.409	2480.596	---	PASS
3DH5	Ant1	2402	1.2105	2401.389	2402.599	---	PASS
		2441	1.2158	2440.386	2441.602	---	PASS
		2480	1.1991	2479.396	2480.595	---	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



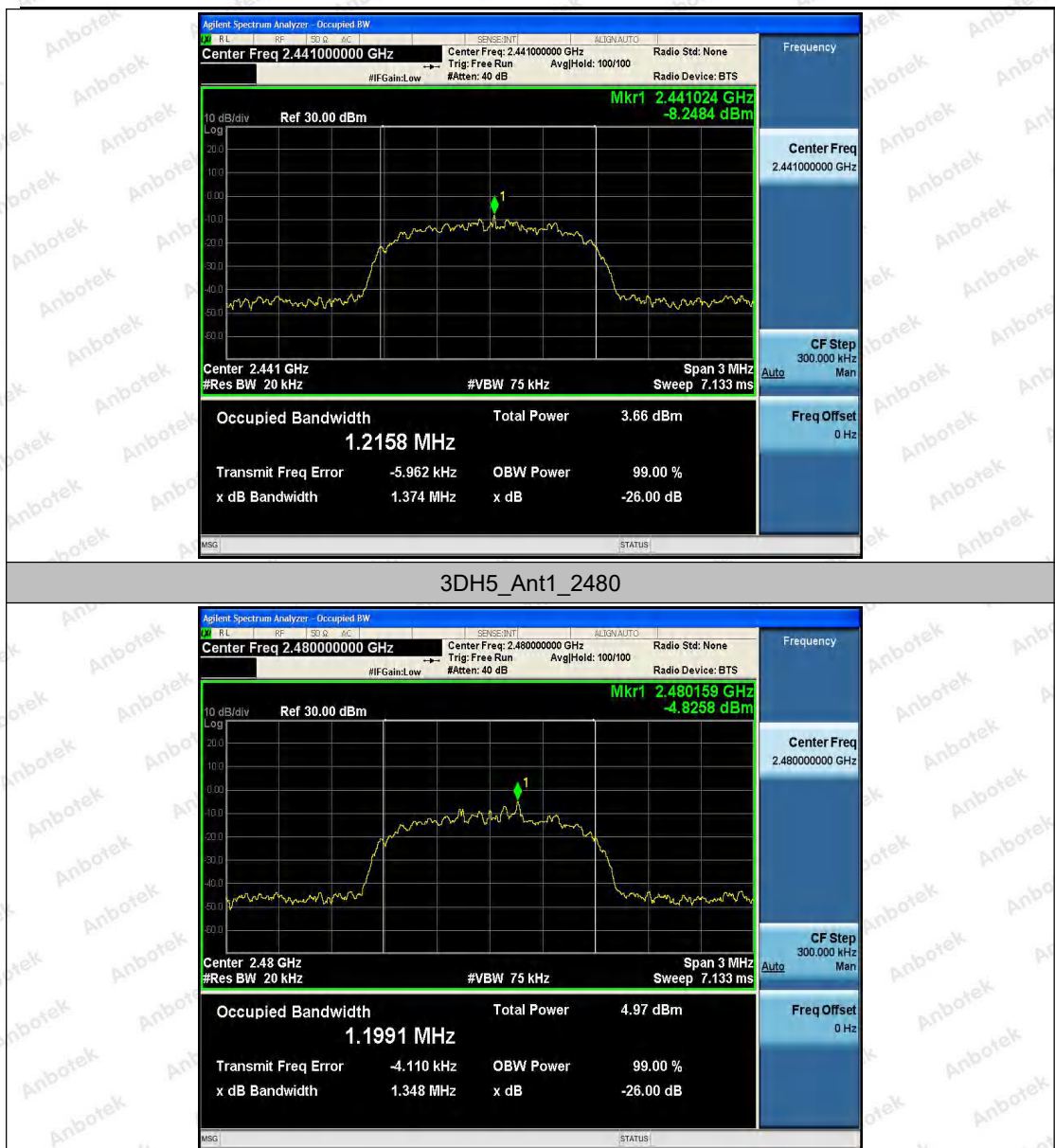
3DH5_Ant1_2441

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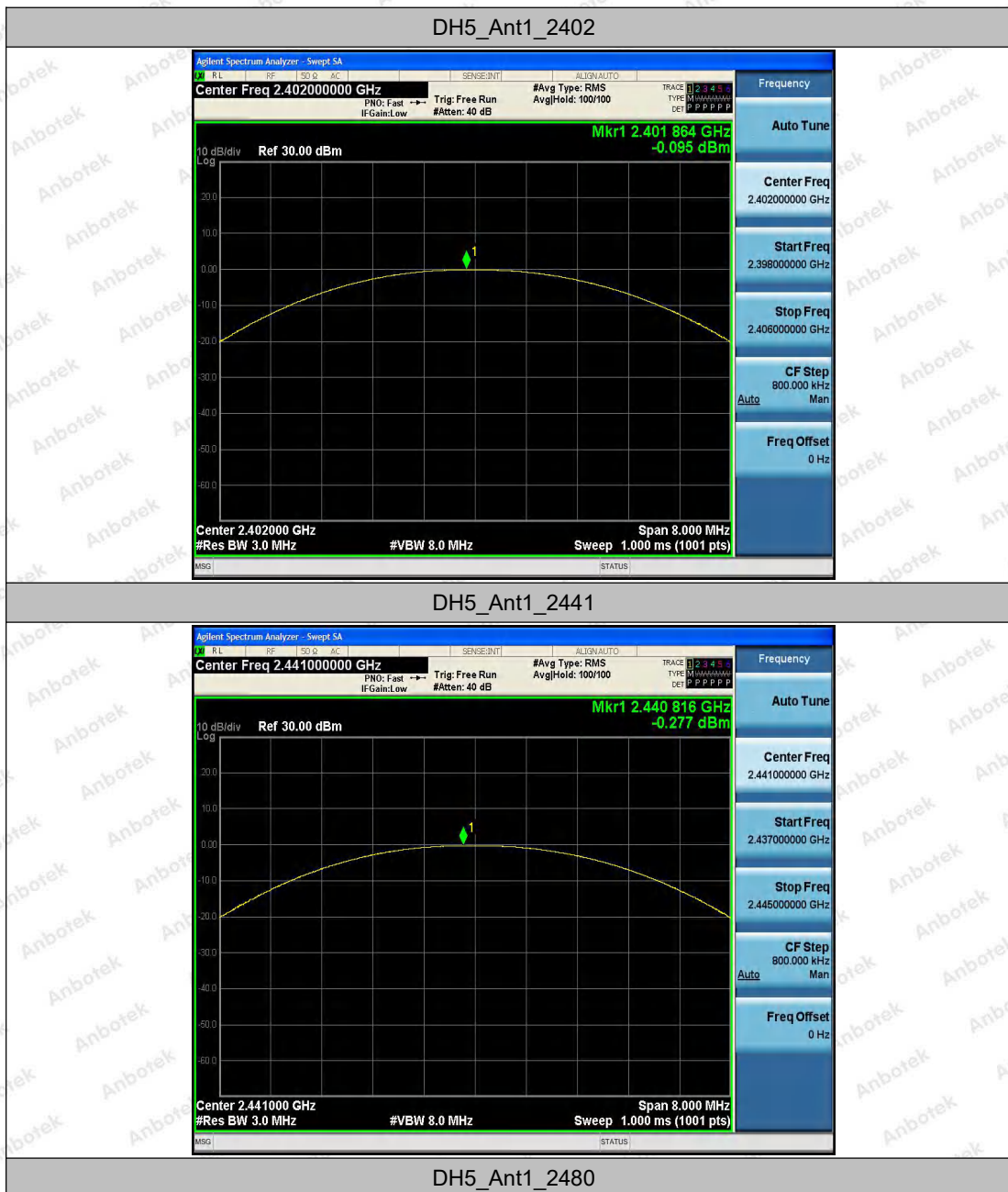
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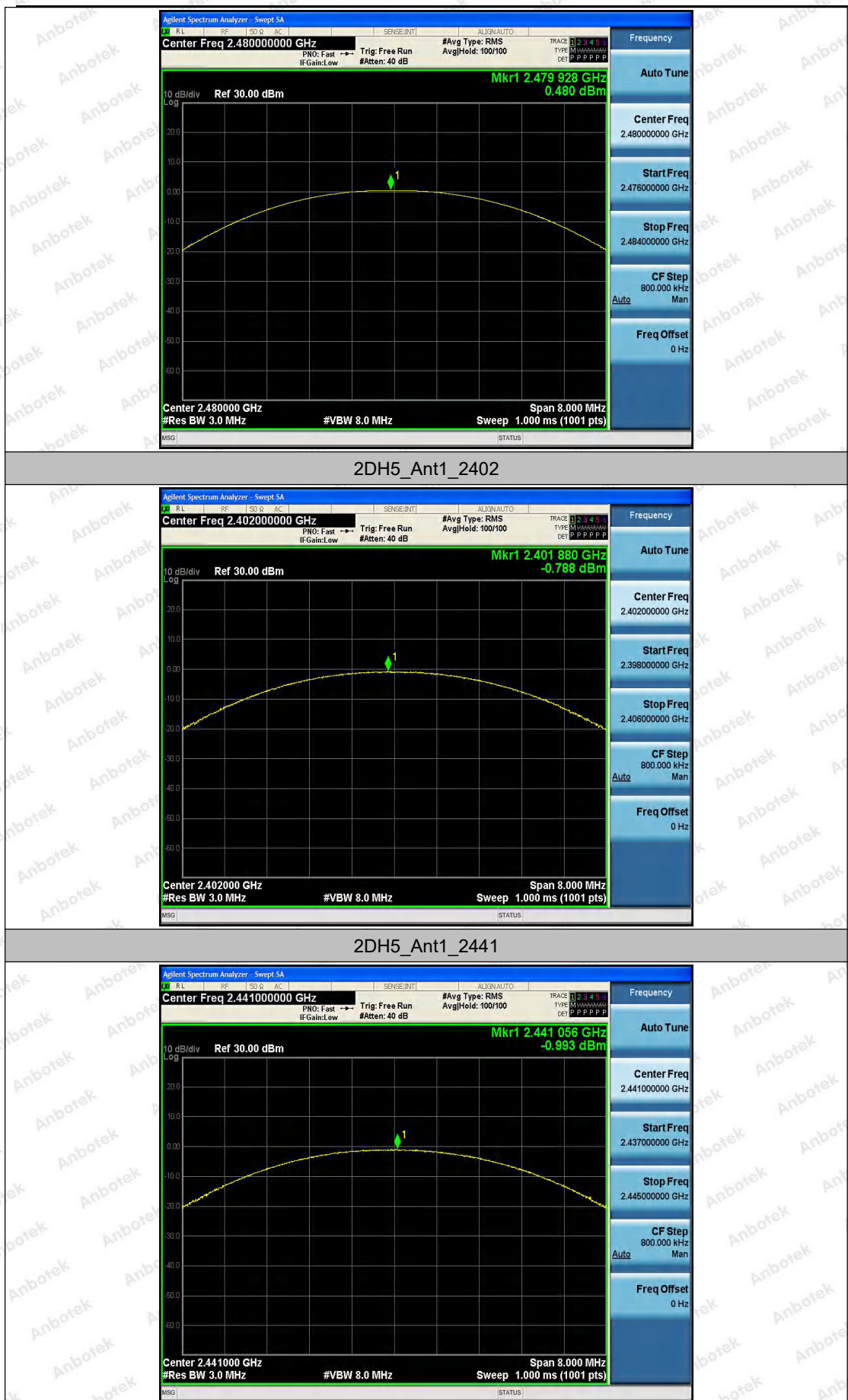
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.1	≤20.97	PASS
		2441	-0.28	≤20.97	PASS
		2480	0.48	≤20.97	PASS
2DH5	Ant1	2402	-0.79	≤20.97	PASS
		2441	-0.99	≤20.97	PASS
		2480	-0.22	≤20.97	PASS
3DH5	Ant1	2402	-0.74	≤20.97	PASS
		2441	-0.88	≤20.97	PASS
		2480	-0.1	≤20.97	PASS

Test Graphs



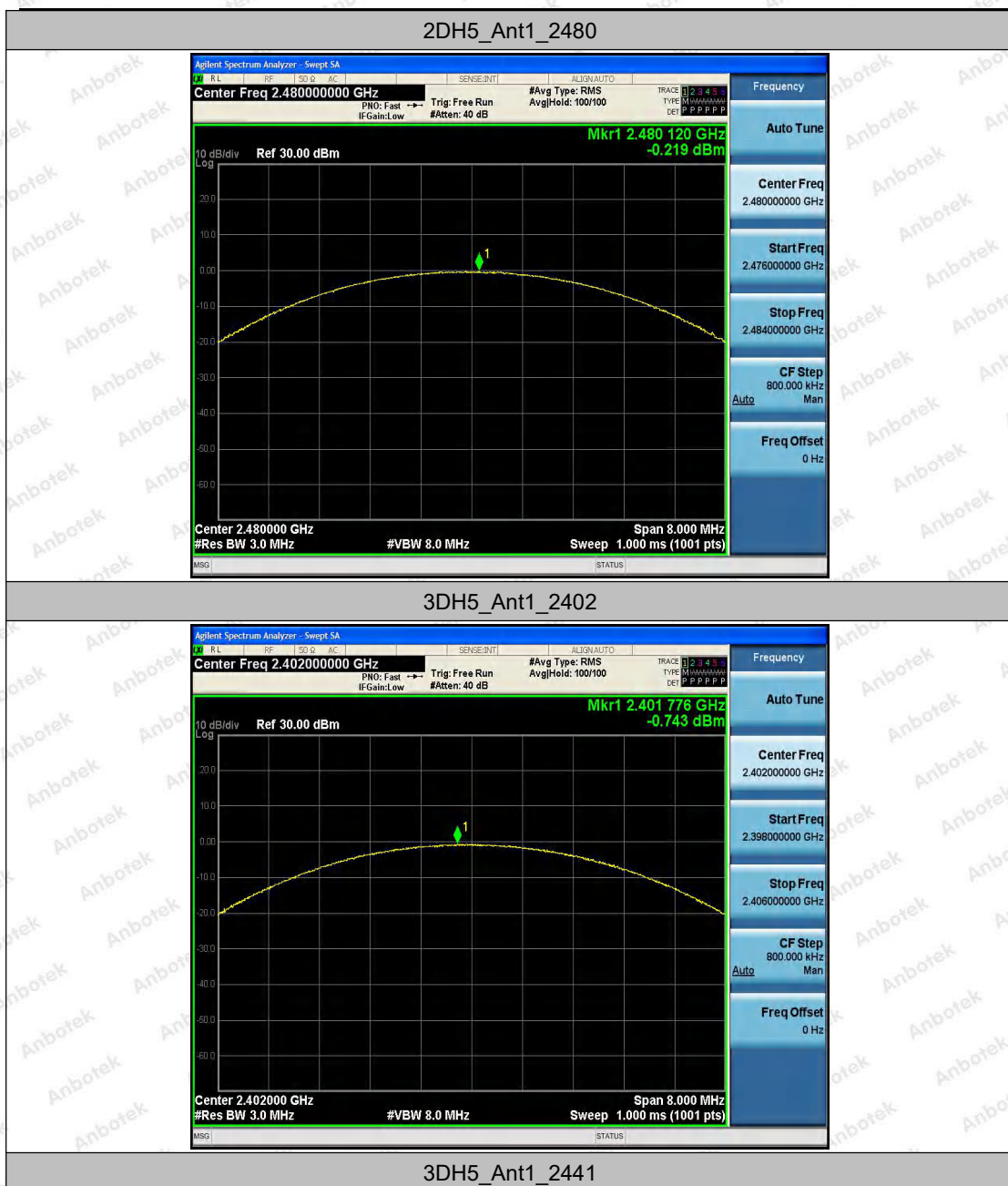


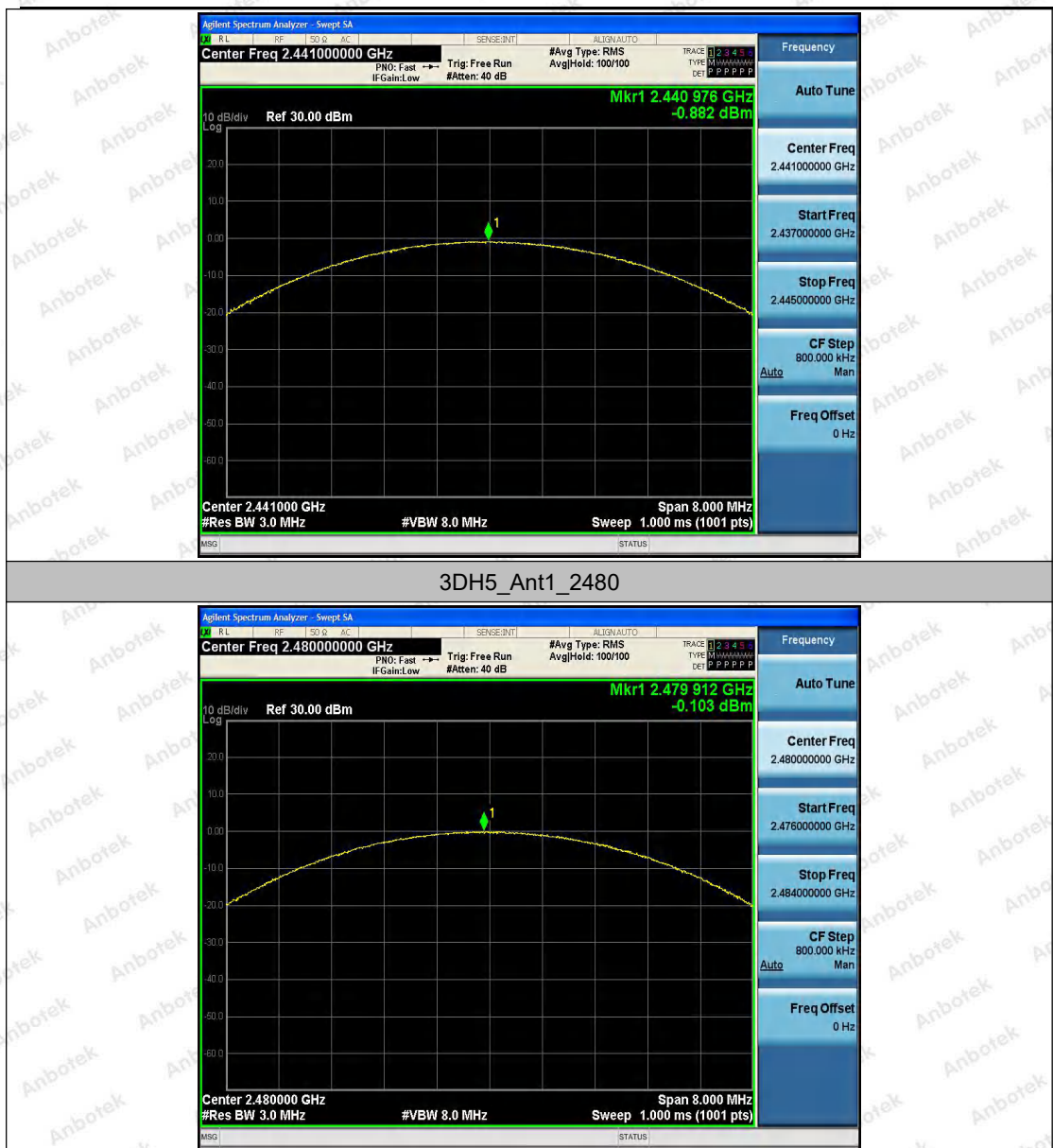
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.816	≥ 0.634	PASS
2DH5	Ant1	Hop	0.982	≥ 0.884	PASS
3DH5	Ant1	Hop	1.012	≥ 0.894	PASS

Test Graphs



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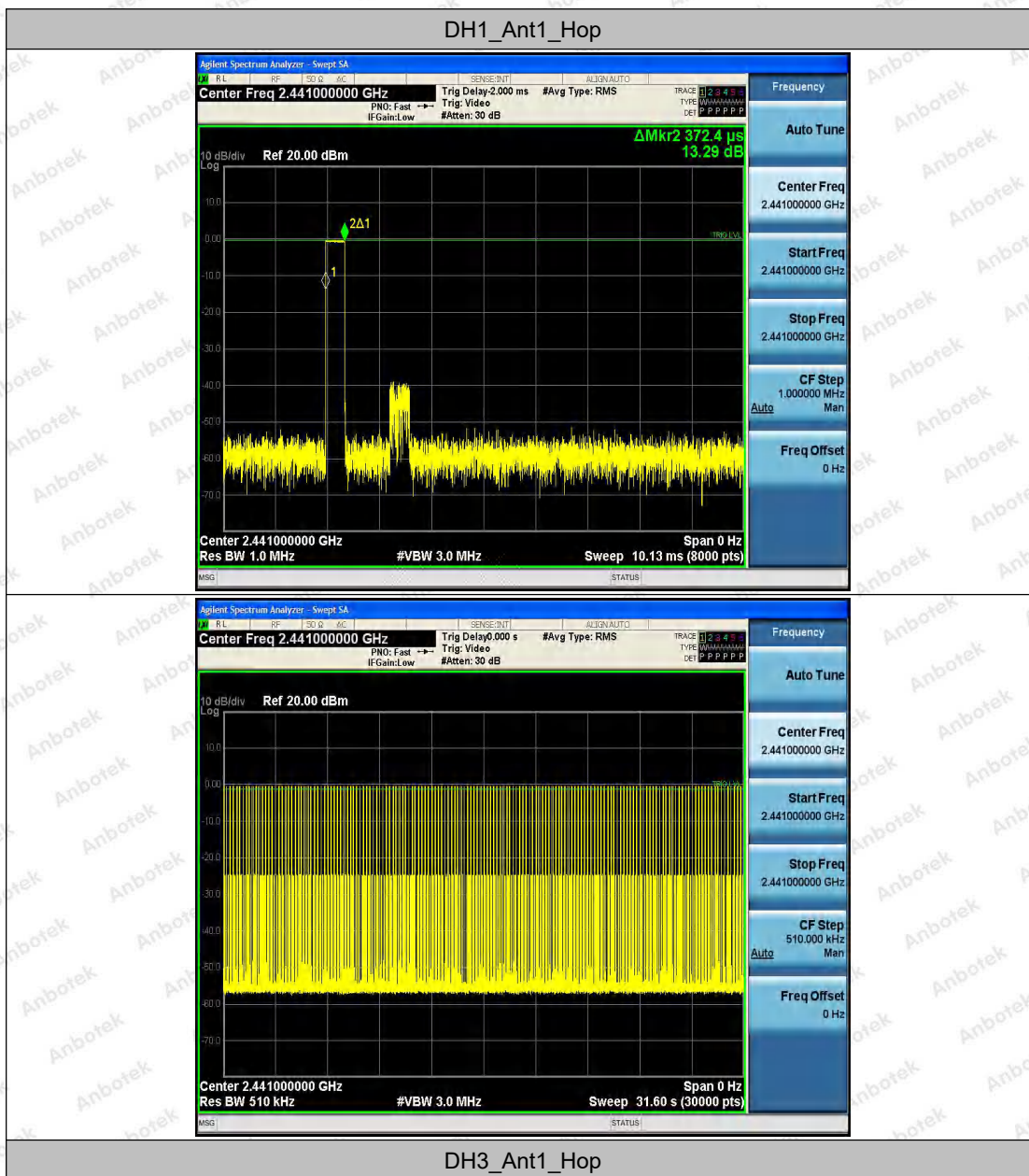
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Appendix E: Time of occupancy

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	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	161	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

Test Graphs



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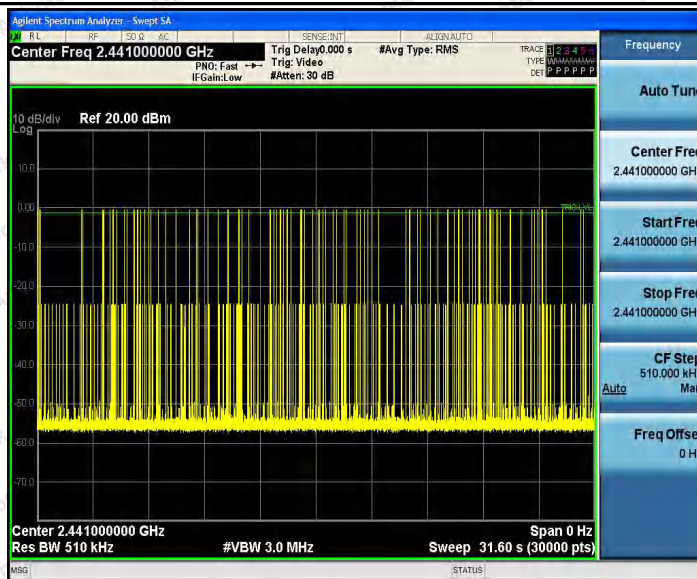


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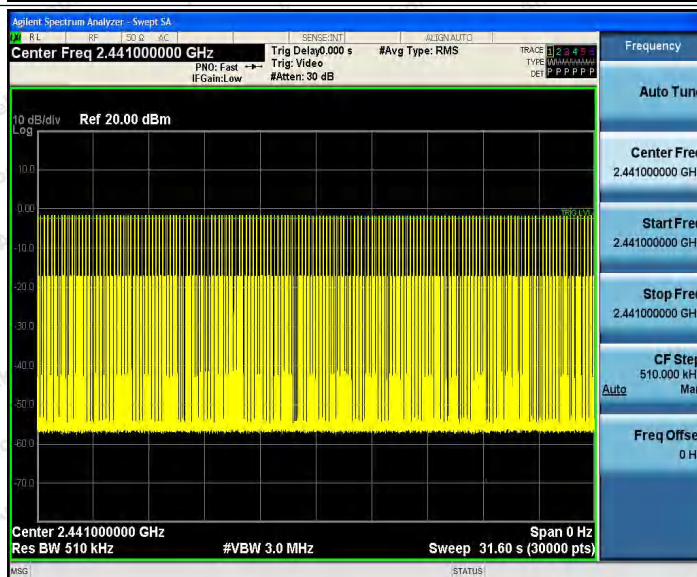
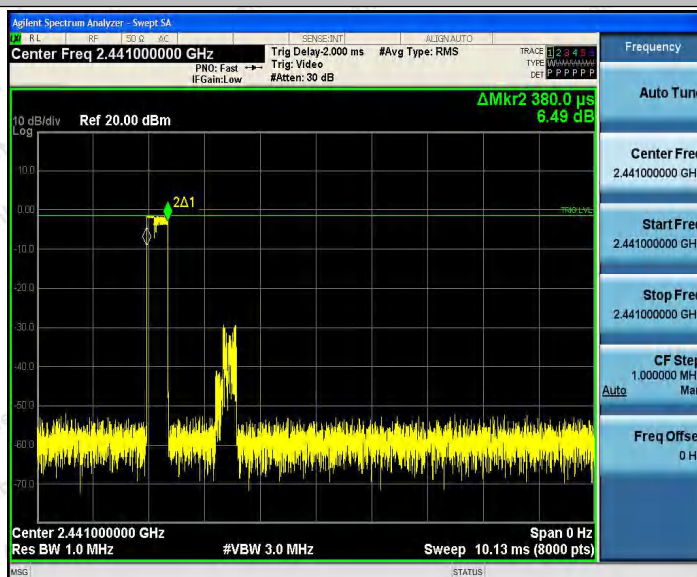
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2DH1_Ant1_Hop



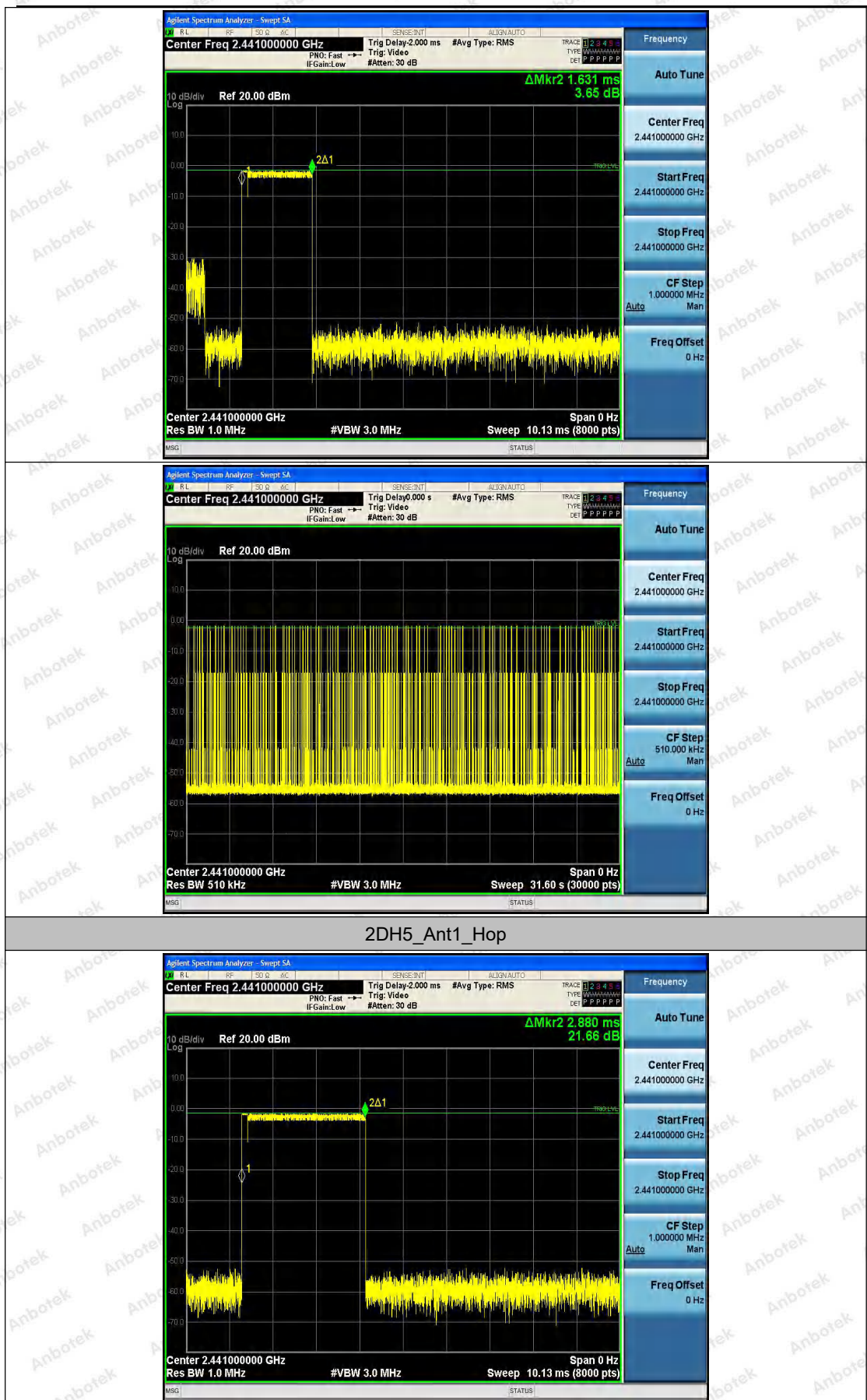
2DH3_Ant1_Hop

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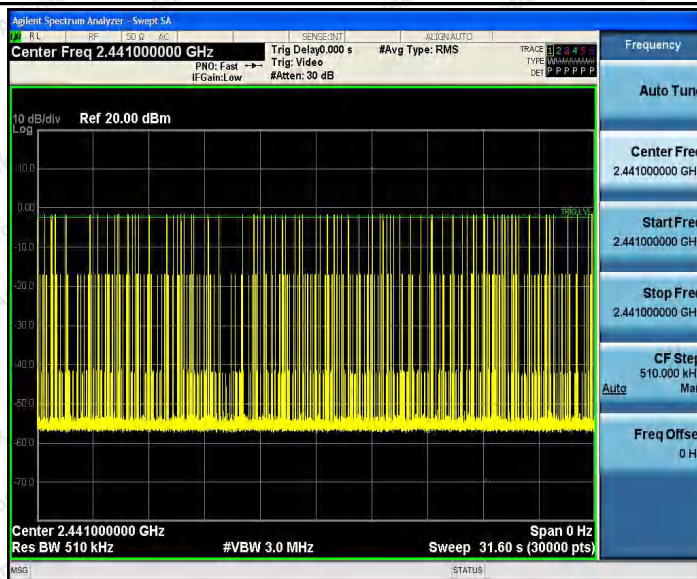
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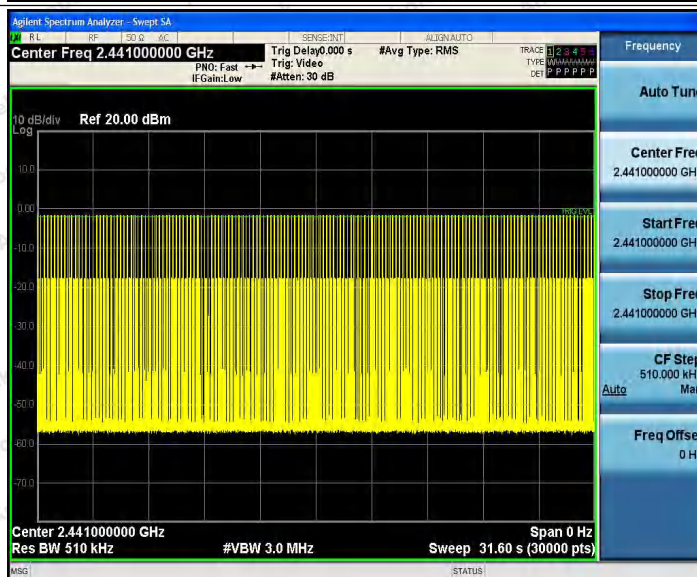
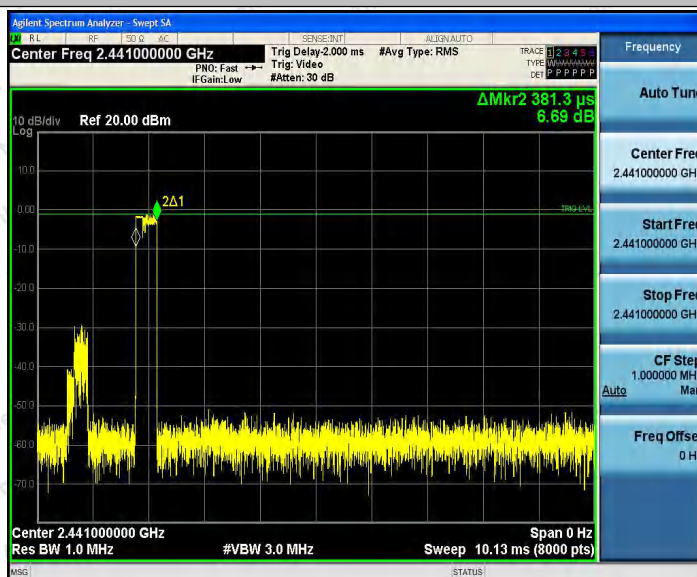
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3DH1_Ant1_Hop



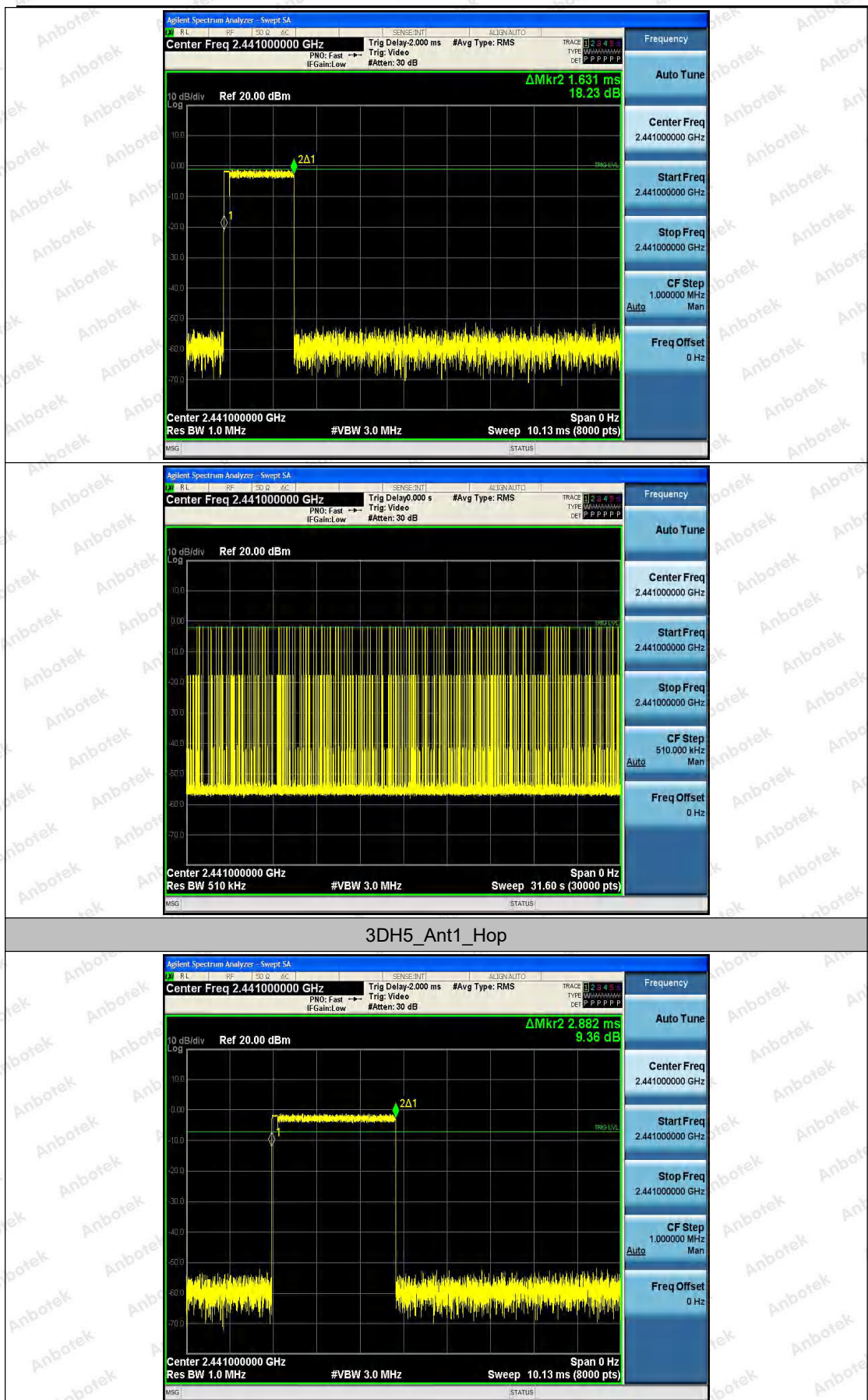
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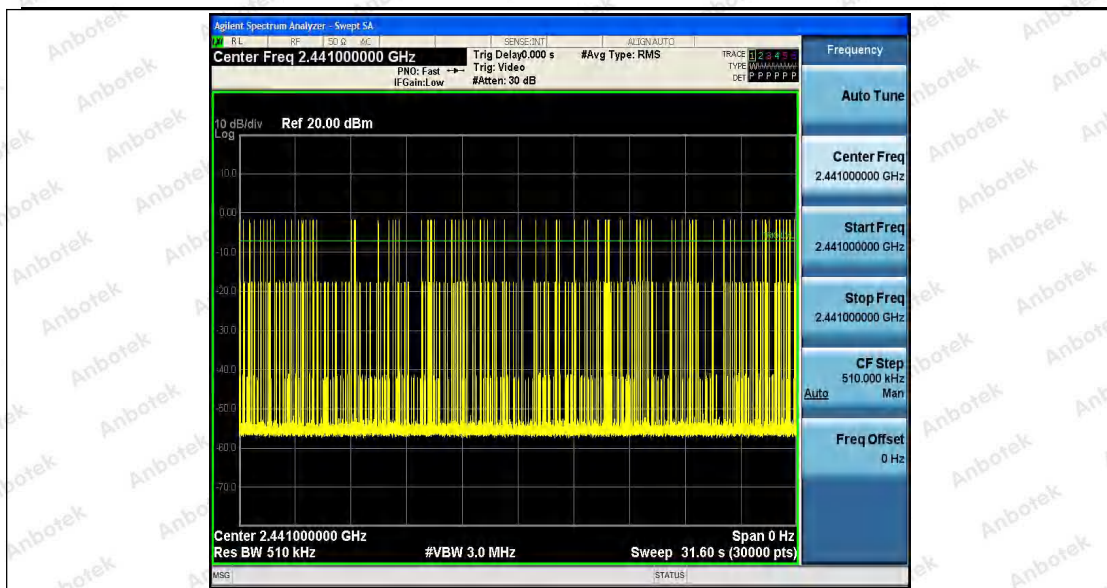
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3DH5_Ant1_Hop



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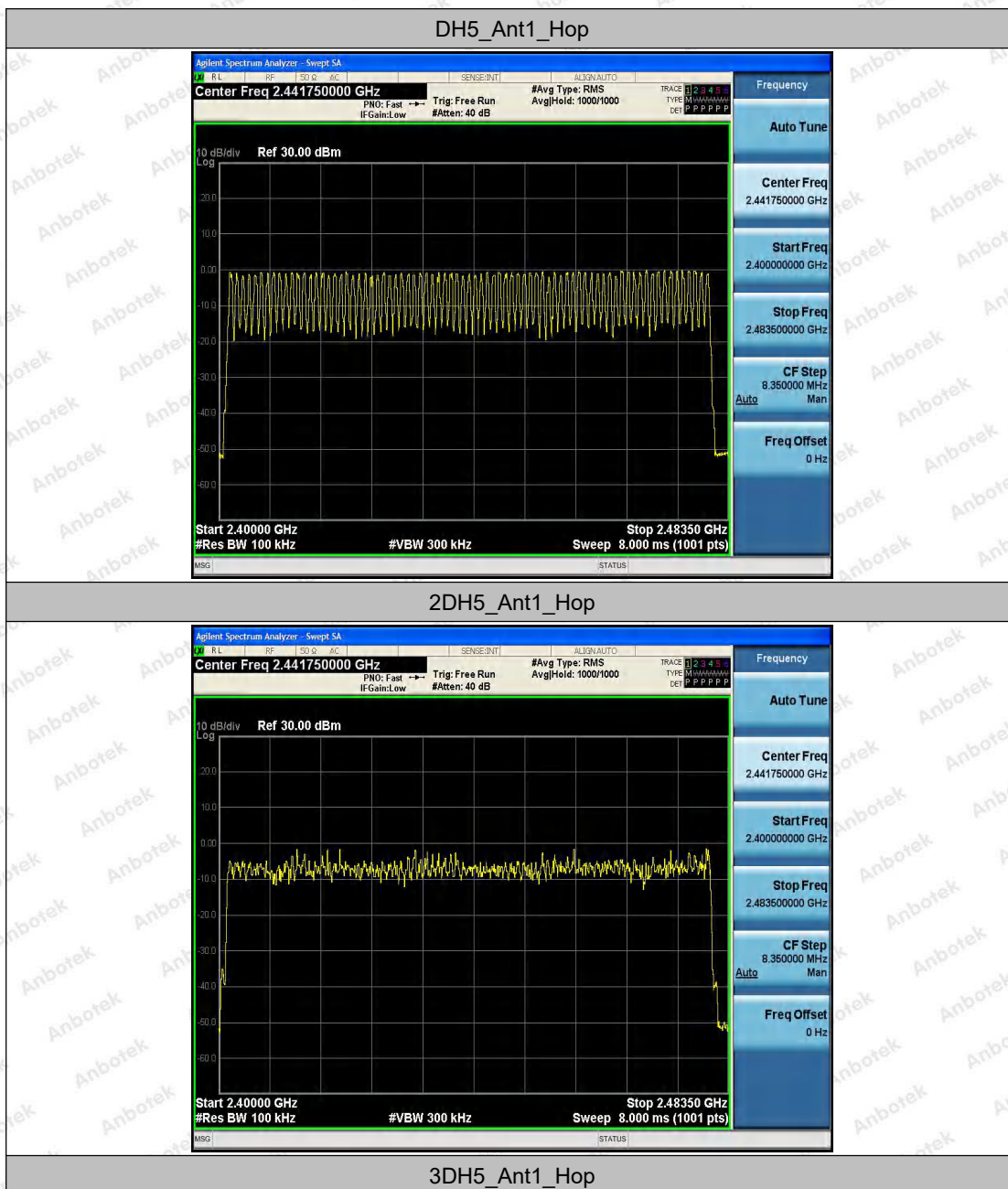
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Appendix F: Number of hopping channels

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

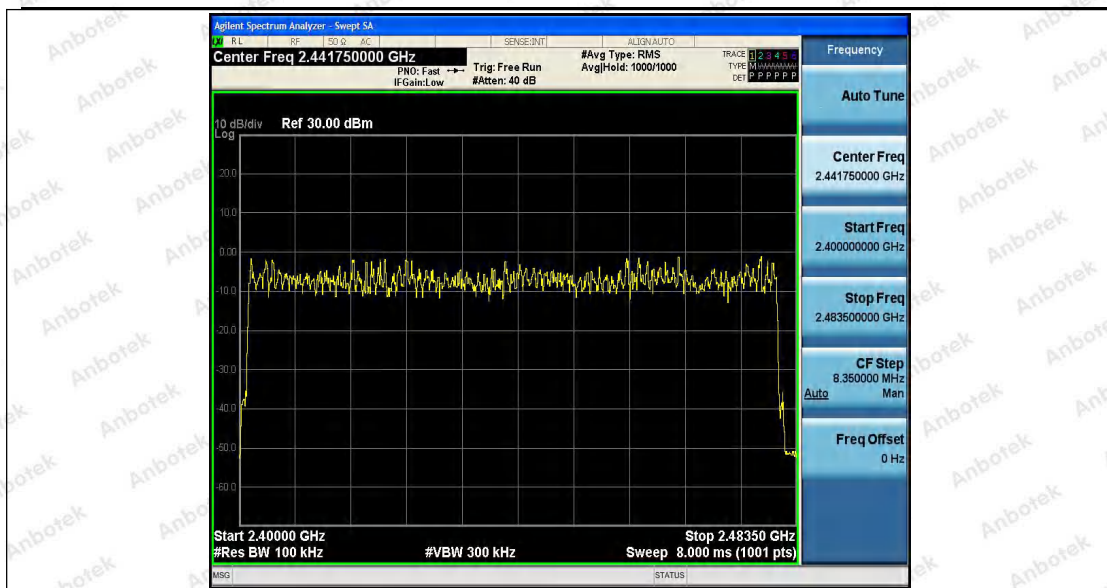


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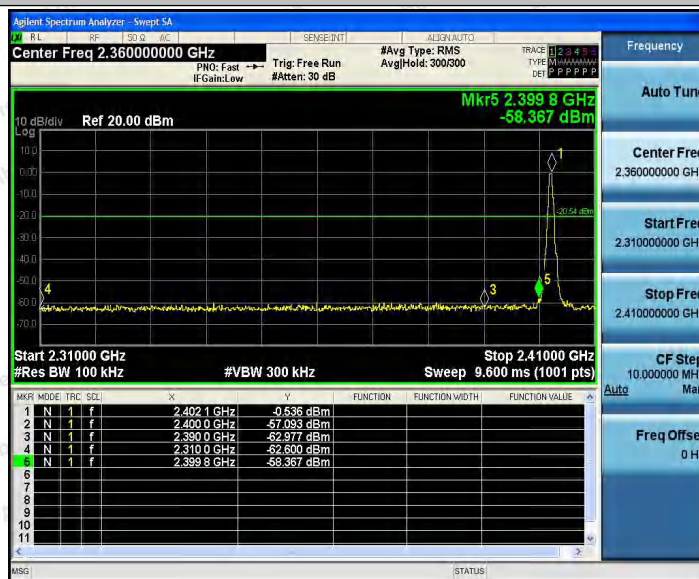
Appendix G: Band edge measurements

Test Result

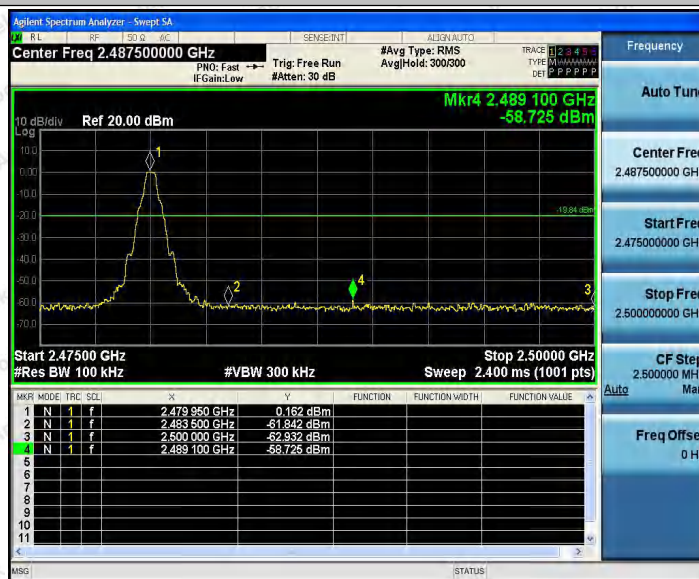
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Low	2402	-0.54	-58.37	≤ -20.54	PASS
		High	2480	0.16	-58.73	≤ -19.84	PASS
		Low	Hop	-0.57	-59.74	≤ -20.57	PASS
		High	Hop	-0.32	-62.18	≤ -20.32	PASS
2DH5	Ant1	Low	2402	-2.11	-57.66	≤ -22.11	PASS
		High	2480	-1.07	-58.2	≤ -21.07	PASS
		Low	Hop	-1.70	-60.2	≤ -21.7	PASS
		High	Hop	-2.20	-61.76	≤ -22.2	PASS
3DH5	Ant1	Low	2402	-2.03	-57.5	≤ -22.03	PASS
		High	2480	-1.30	-59.32	≤ -21.3	PASS
		Low	Hop	-1.86	-59.51	≤ -21.86	PASS
		High	Hop	-4.38	-62.93	≤ -24.38	PASS

Test Graphs

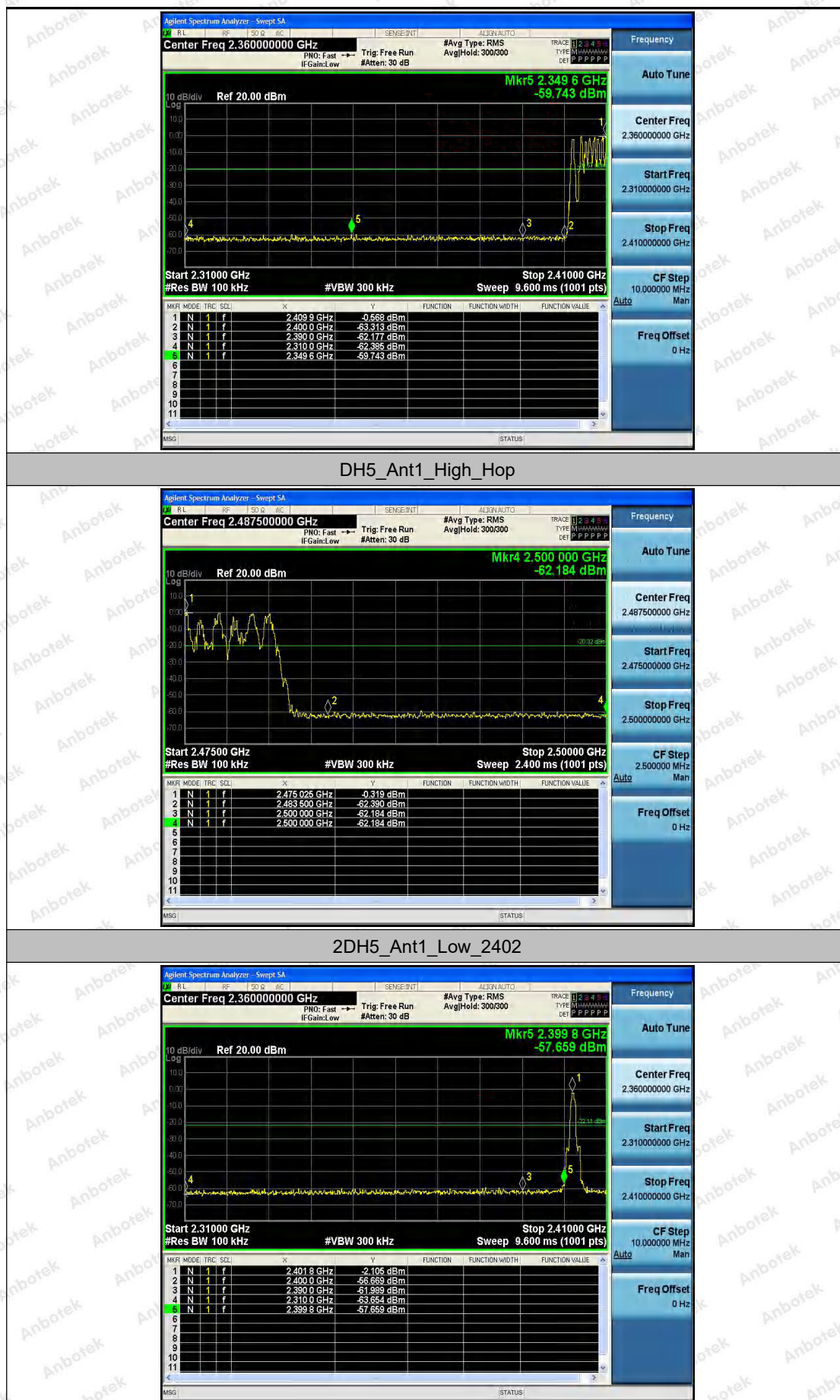
DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



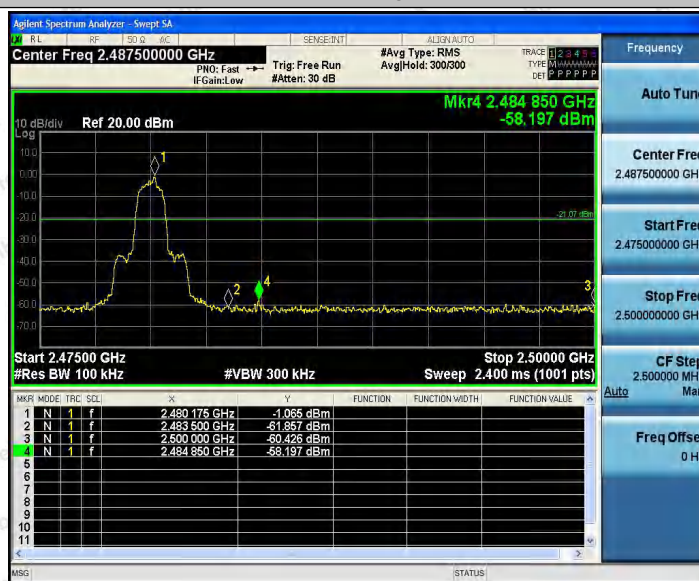
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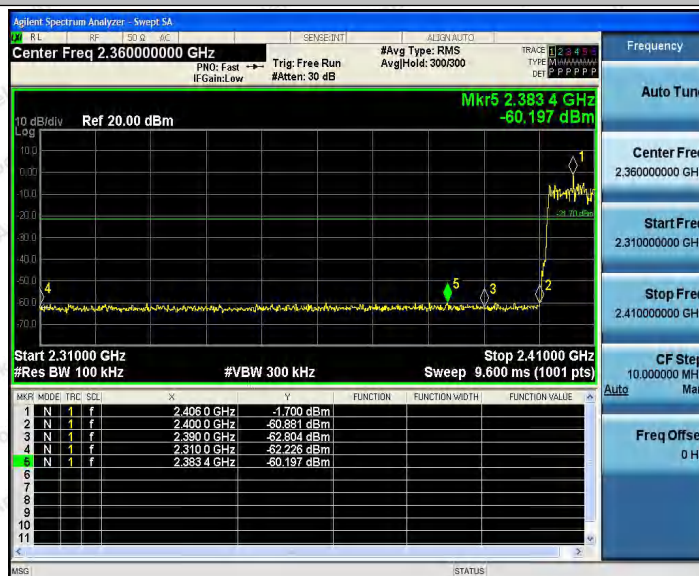
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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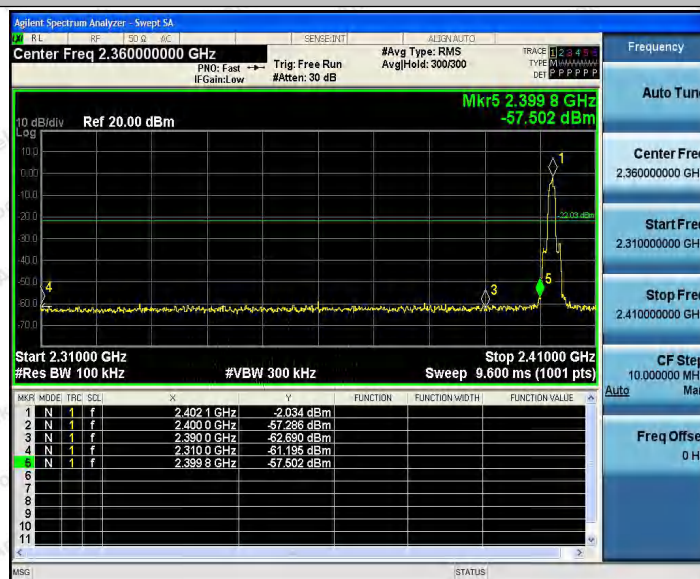
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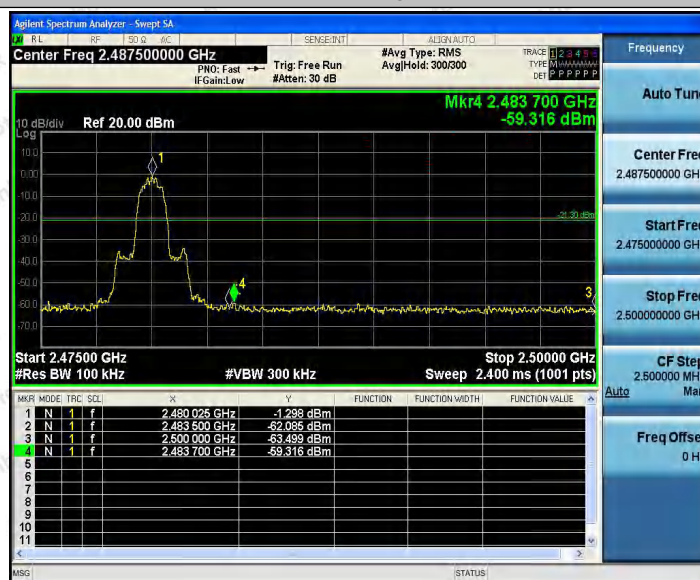
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

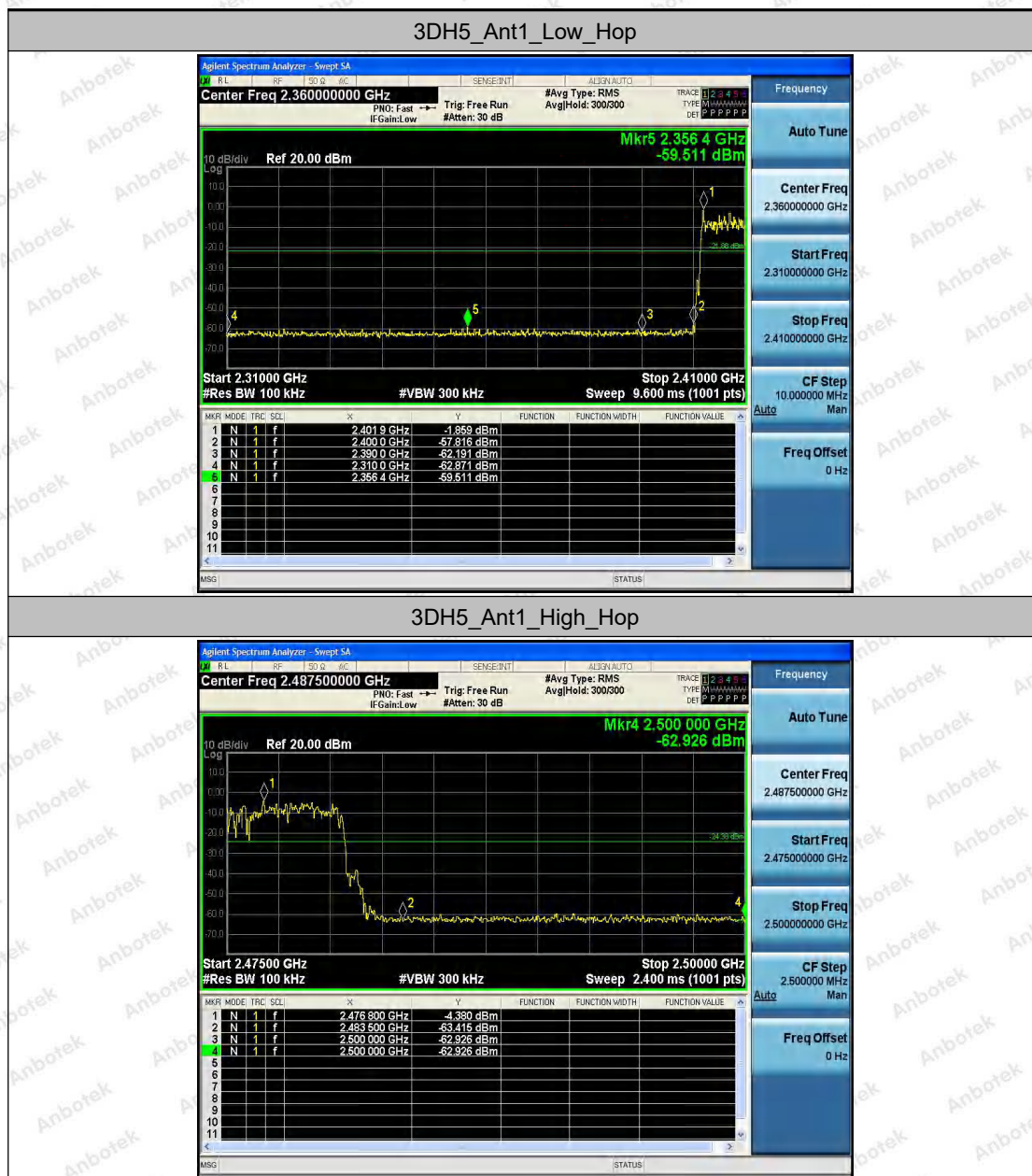


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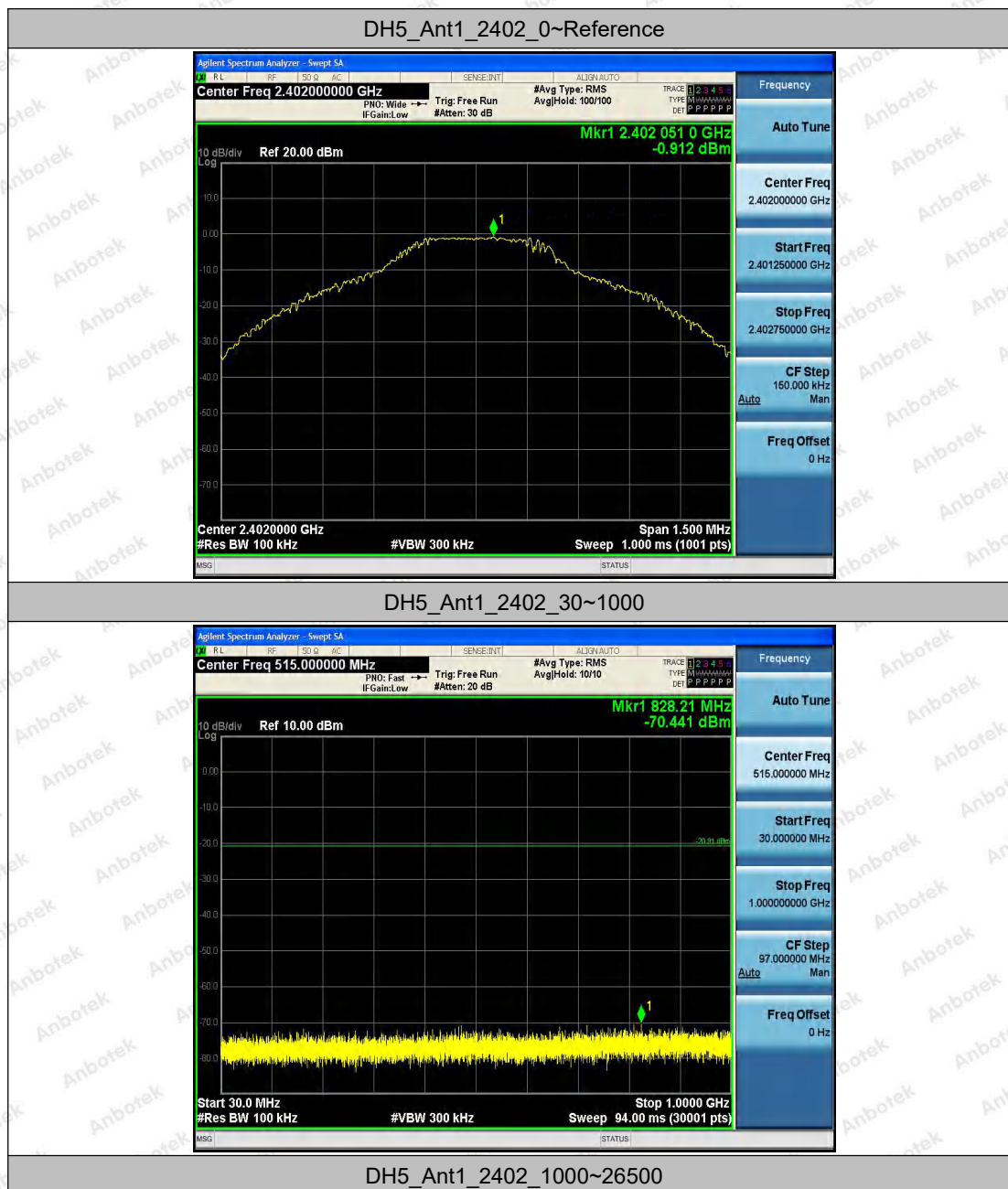
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-70.44	≤-20.91	PASS
			1000~26500	-0.91	-56.29	≤-20.91	PASS
		2441	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-70.78	≤-20.8	PASS
			1000~26500	-0.80	-54.48	≤-20.8	PASS
		2480	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-69.65	≤-20.2	PASS
			1000~26500	-0.20	-55.4	≤-20.2	PASS
2DH5	Ant1	2402	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.99	≤-21.71	PASS
			1000~26500	-1.71	-54.5	≤-21.71	PASS
		2441	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-70.95	≤-22.03	PASS
			1000~26500	-2.03	-55.52	≤-22.03	PASS
		2480	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-70.15	≤-21.19	PASS
			1000~26500	-1.19	-55.54	≤-21.19	PASS
3DH5	Ant1	2402	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-71.01	≤-22.29	PASS
			1000~26500	-2.29	-55.38	≤-22.29	PASS
		2441	Reference	-2.32	-2.32	---	PASS
			30~1000	-2.32	-69.96	≤-22.32	PASS
			1000~26500	-2.32	-56.03	≤-22.32	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-70.43	≤-21.09	PASS
			1000~26500	-1.09	-56.19	≤-21.09	PASS

Test Graphs



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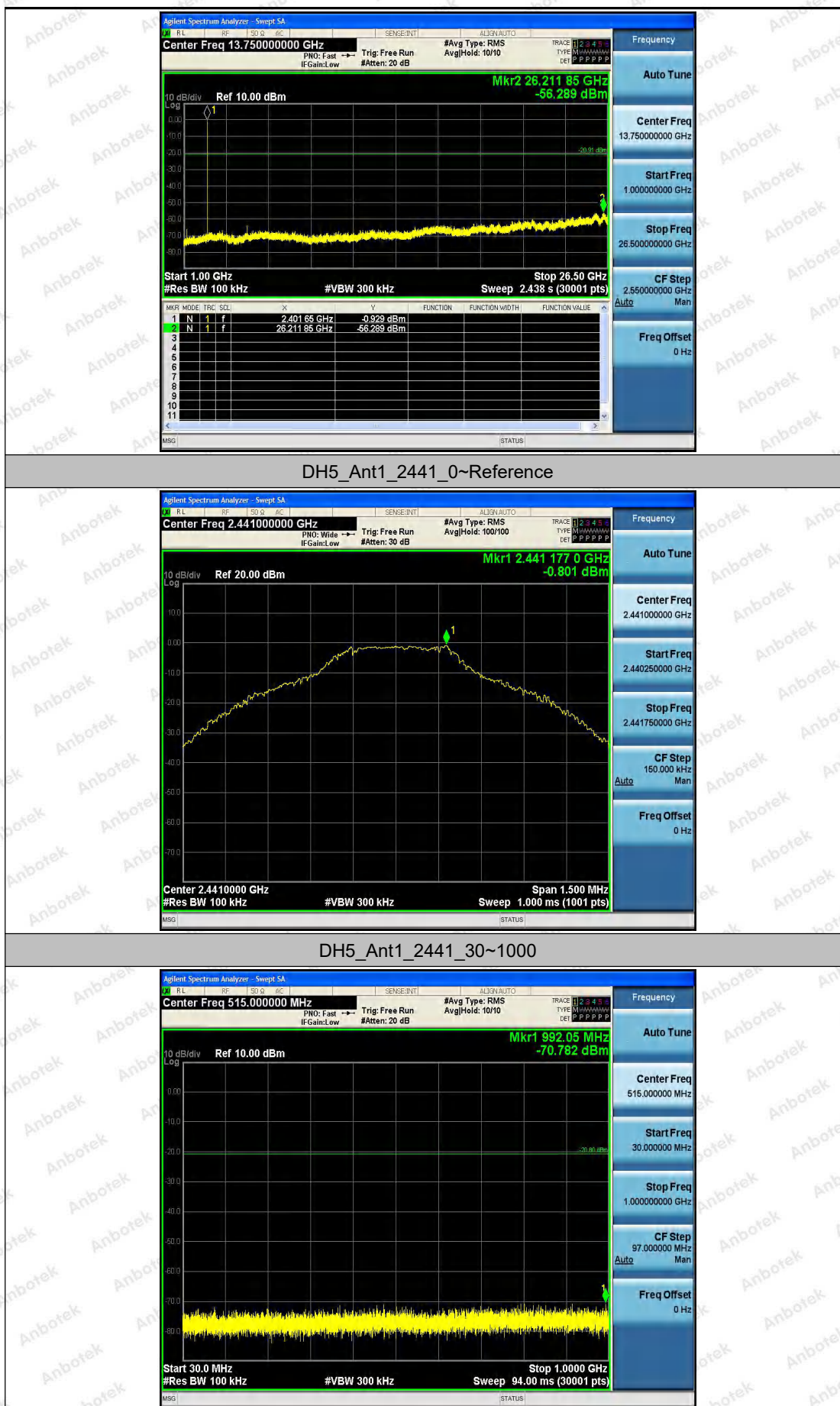
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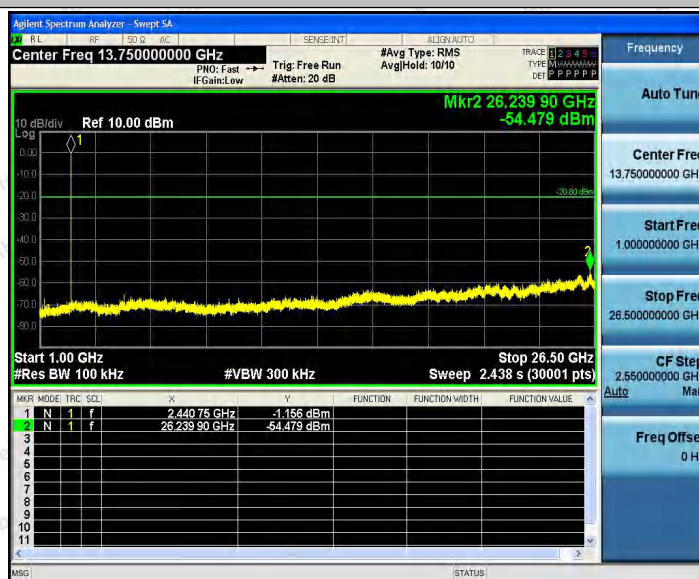
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



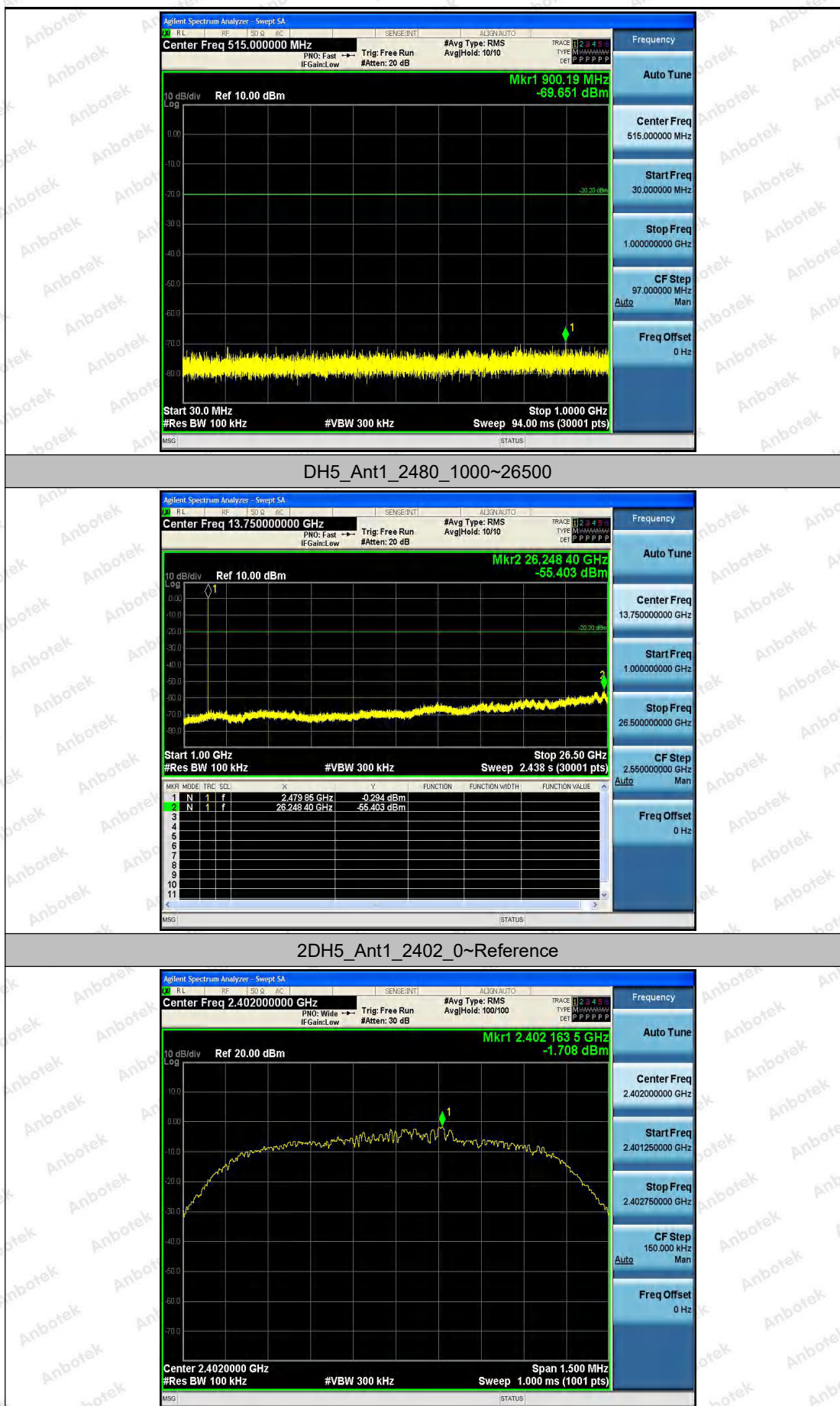
DH5_Ant1_2480_30~1000

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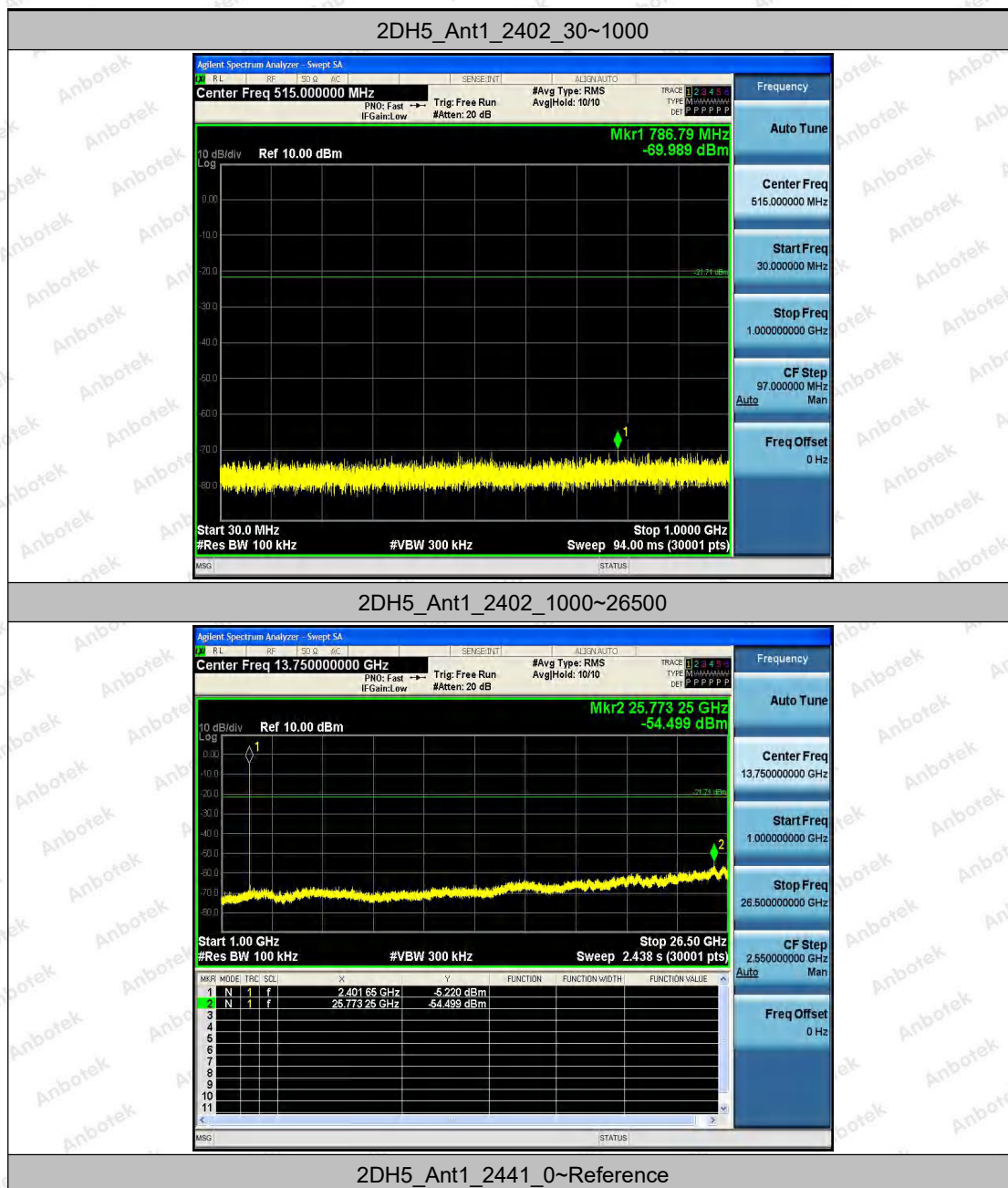


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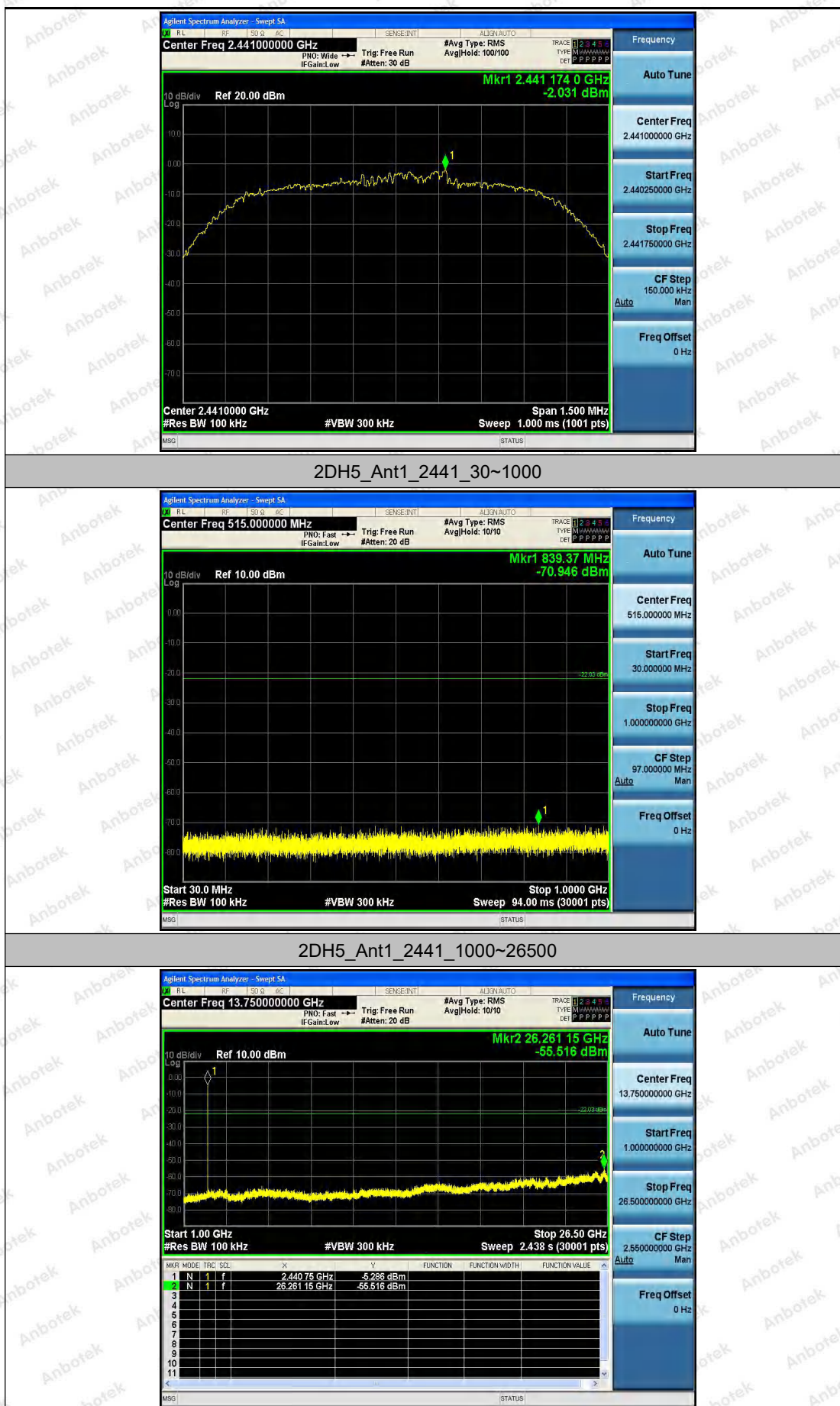


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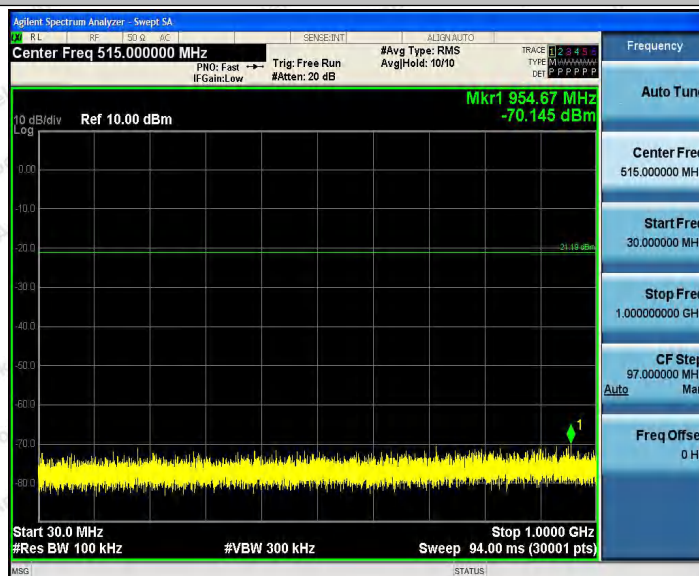
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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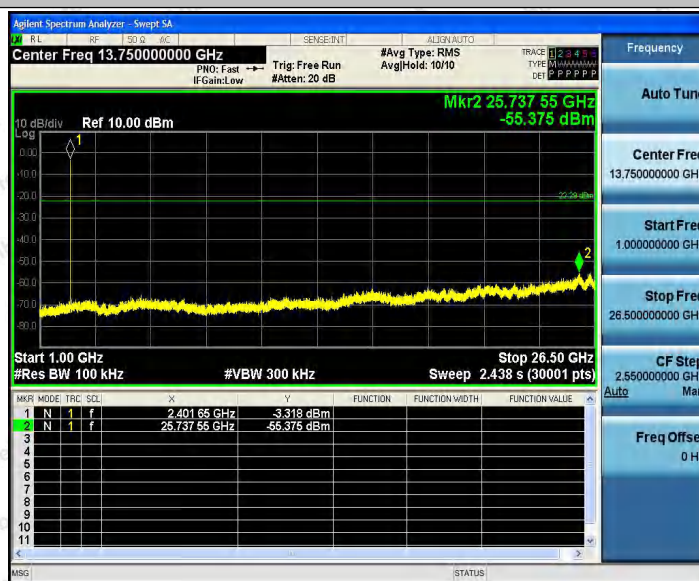
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



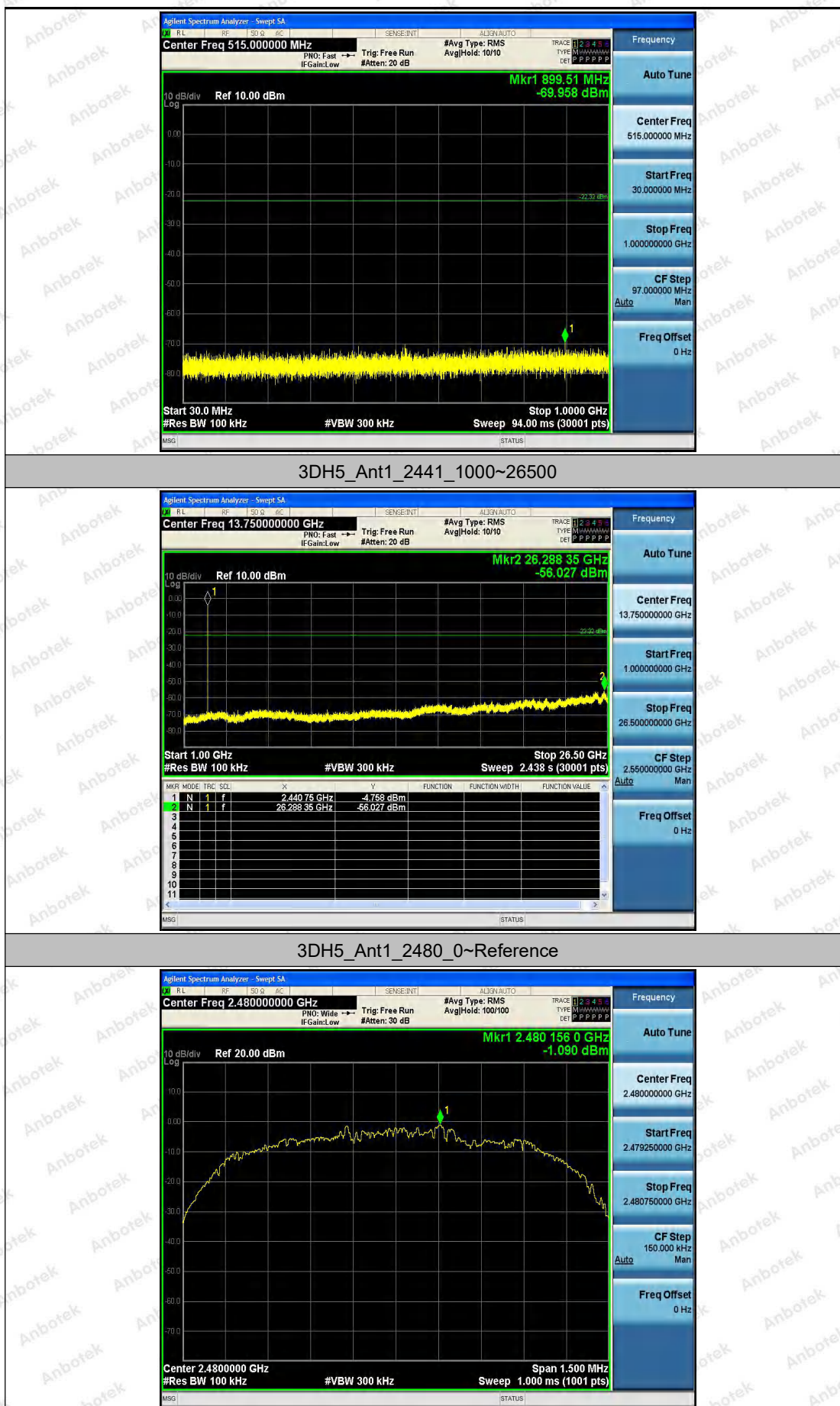
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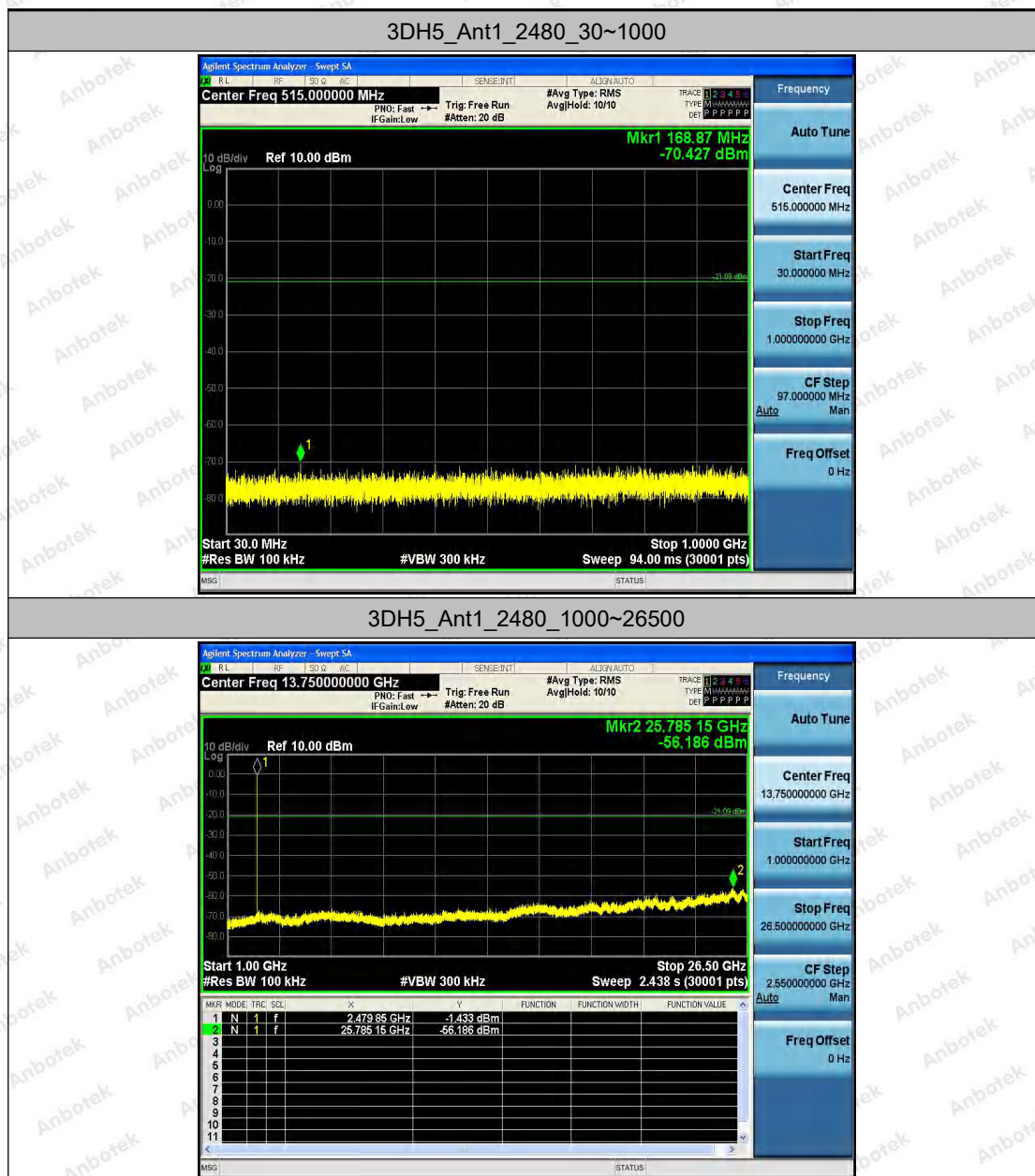


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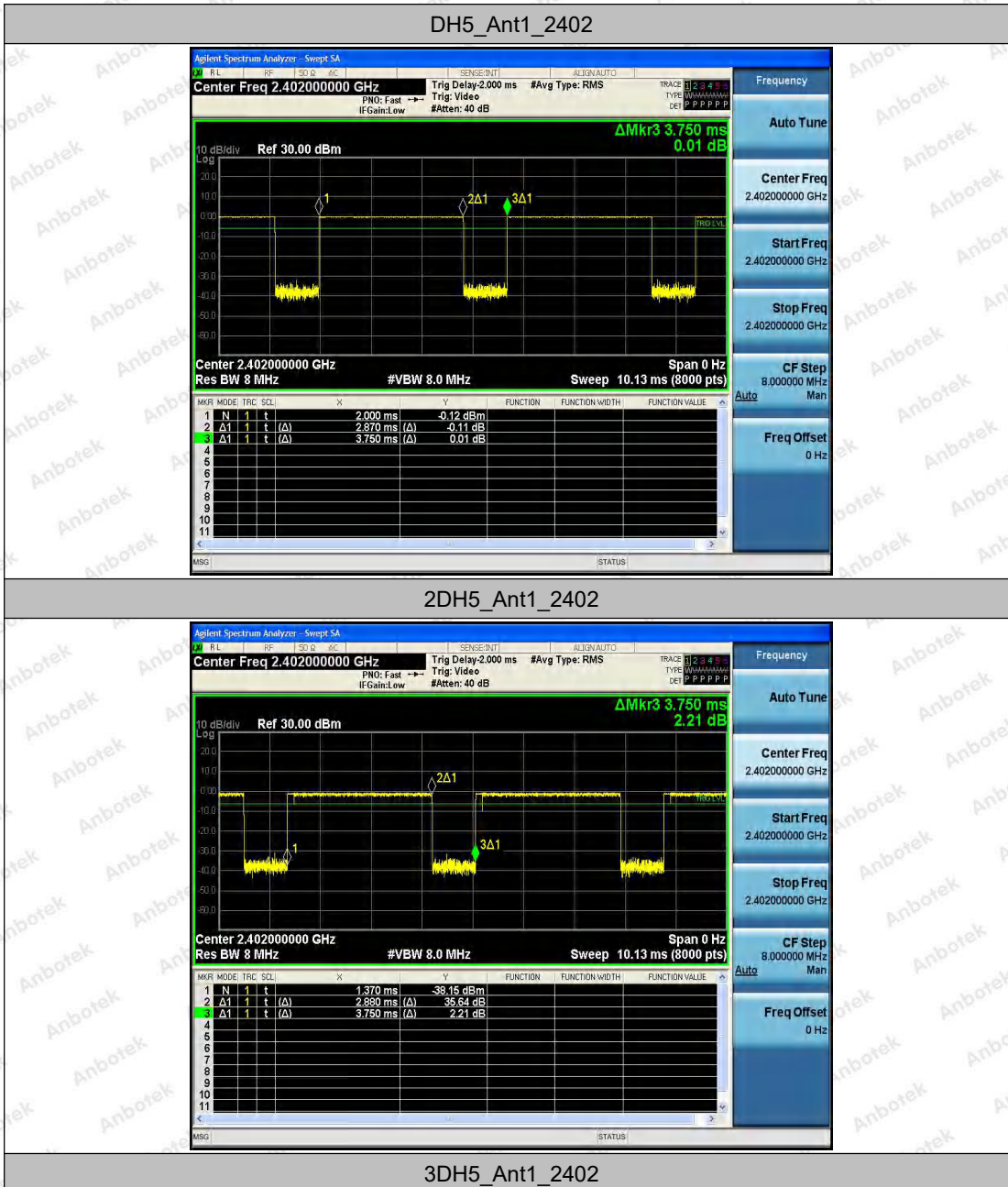
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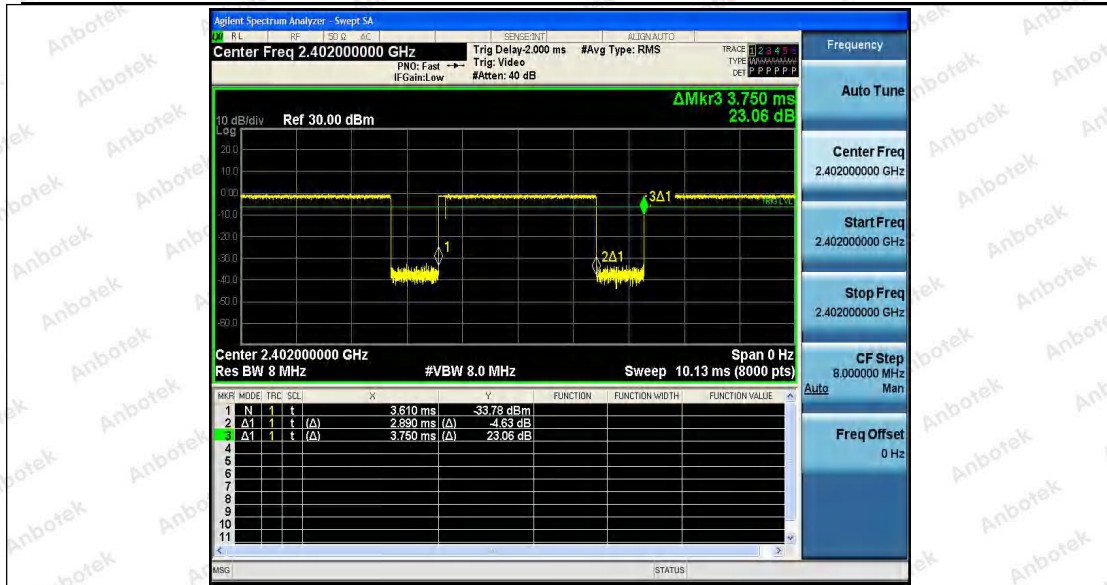
Appendix I: Duty Cycle

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	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---