

Appendix Test Data

Report No.:	18220WC20088201	Test Sample No.:	1-2-2
Start Test Date:	2022.4.21	Finish Test Date:	2022.4.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57 %
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	0.936	2401.541	2402.477	---	PASS
		2441	0.951	2440.538	2441.489	---	PASS
		2480	0.936	2479.538	2480.474	---	PASS
2DH5	Ant1	2402	1.269	2401.364	2402.633	---	PASS
		2441	1.275	2440.364	2441.639	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.326	2401.331	2402.657	---	PASS
		2441	1.341	2440.325	2441.666	---	PASS
		2480	1.278	2479.349	2480.627	---	PASS

Test Graphs

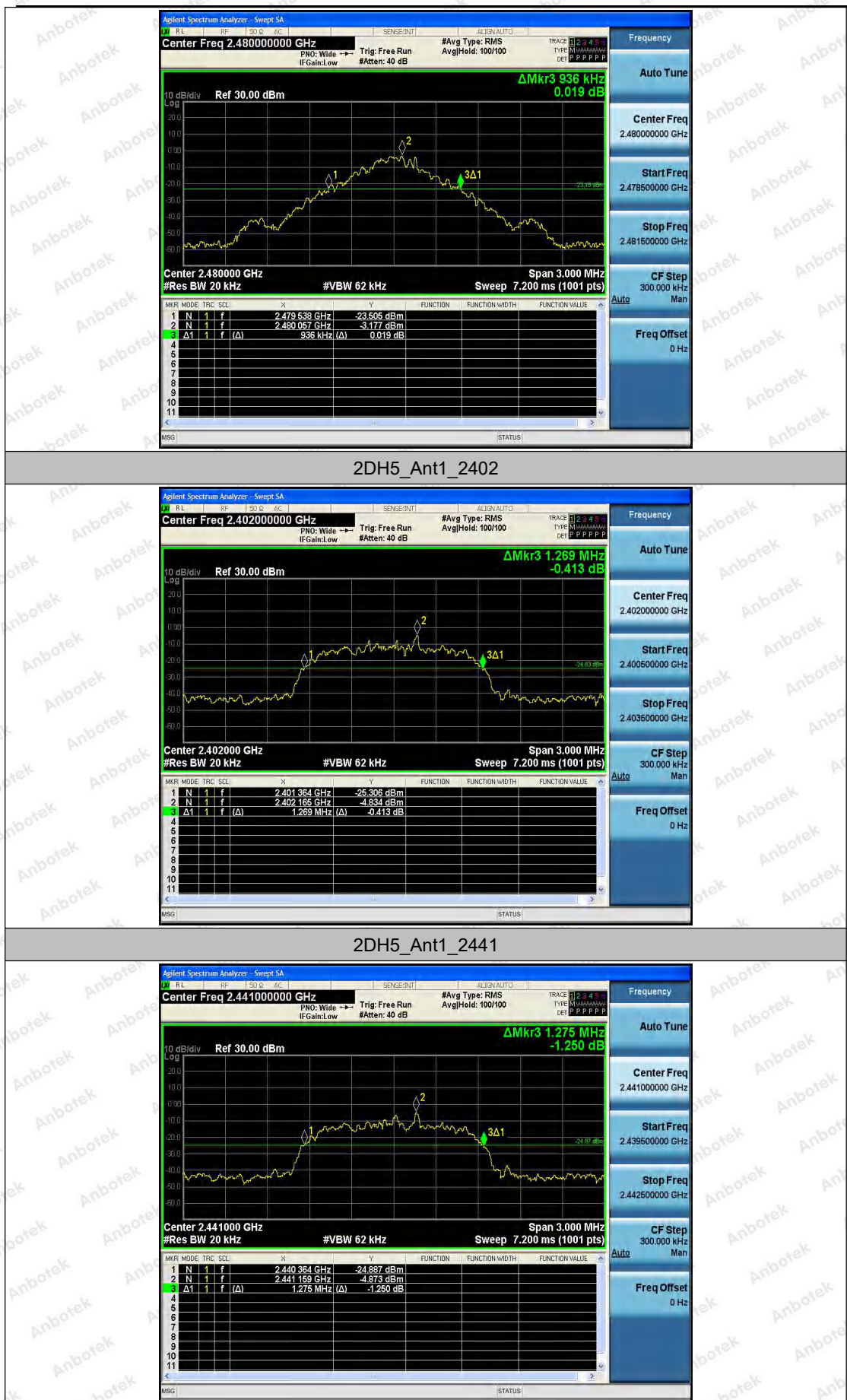


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88906	2401.55 6	2402.445	---	PASS
		2441	0.88438	2440.55 7	2441.441	---	PASS
		2480	0.88836	2479.55 7	2480.446	---	PASS
2DH5	Ant1	2402	1.2001	2401.40 0	2402.600	---	PASS
		2441	1.1902	2440.40 5	2441.595	---	PASS
		2480	1.1925	2479.40 3	2480.595	---	PASS
3DH5	Ant1	2402	1.2131	2401.38 4	2402.597	---	PASS
		2441	1.2058	2440.38 9	2441.594	---	PASS
		2480	1.2112	2479.38 5	2480.597	---	PASS

Test Graphs

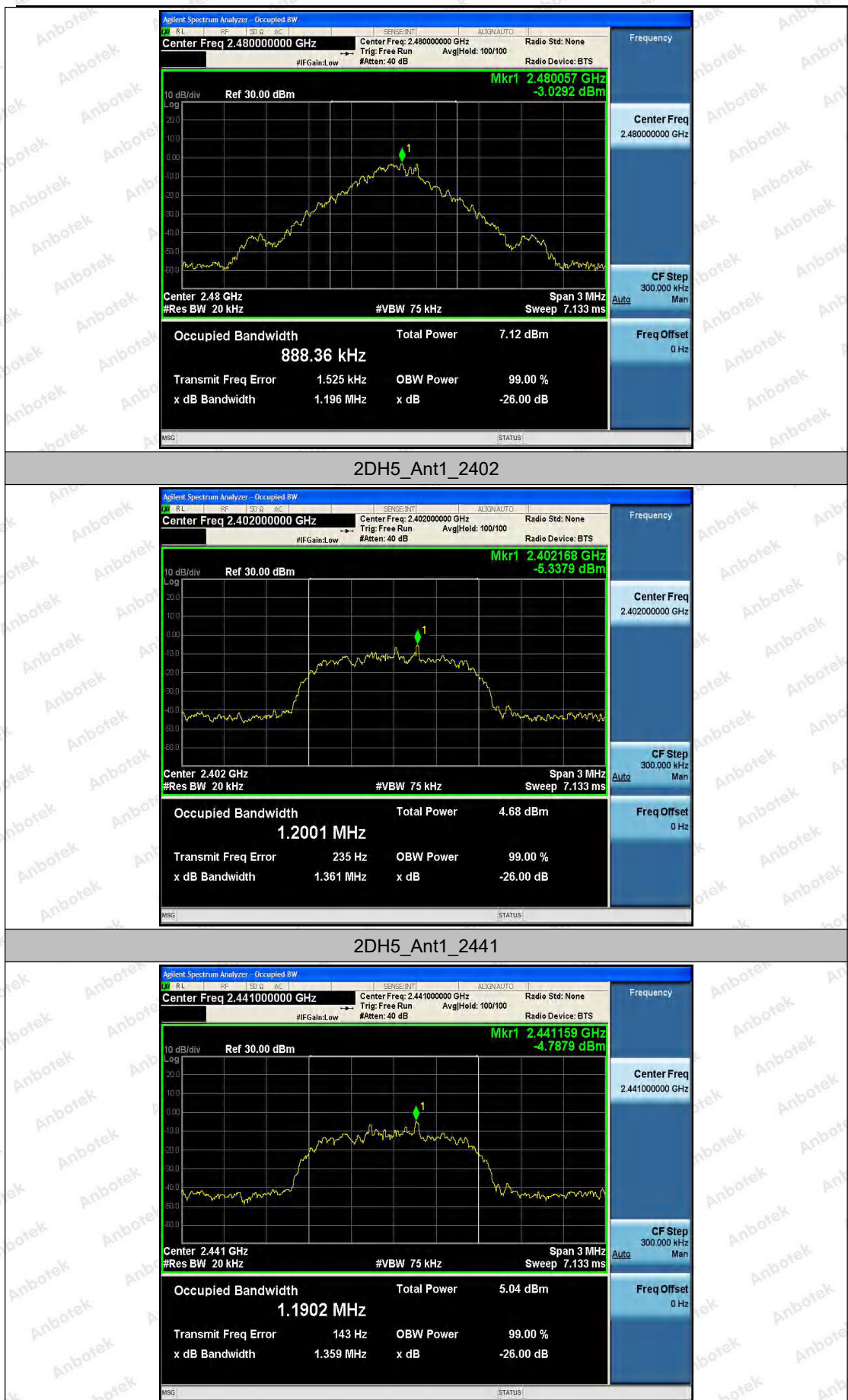


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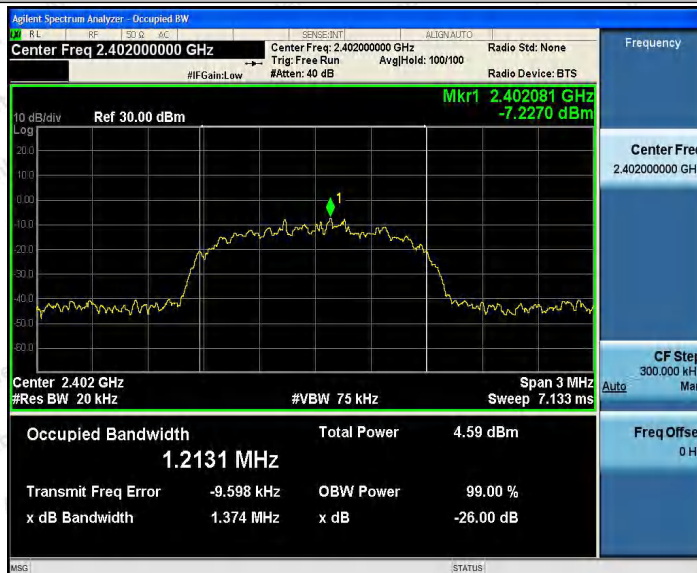
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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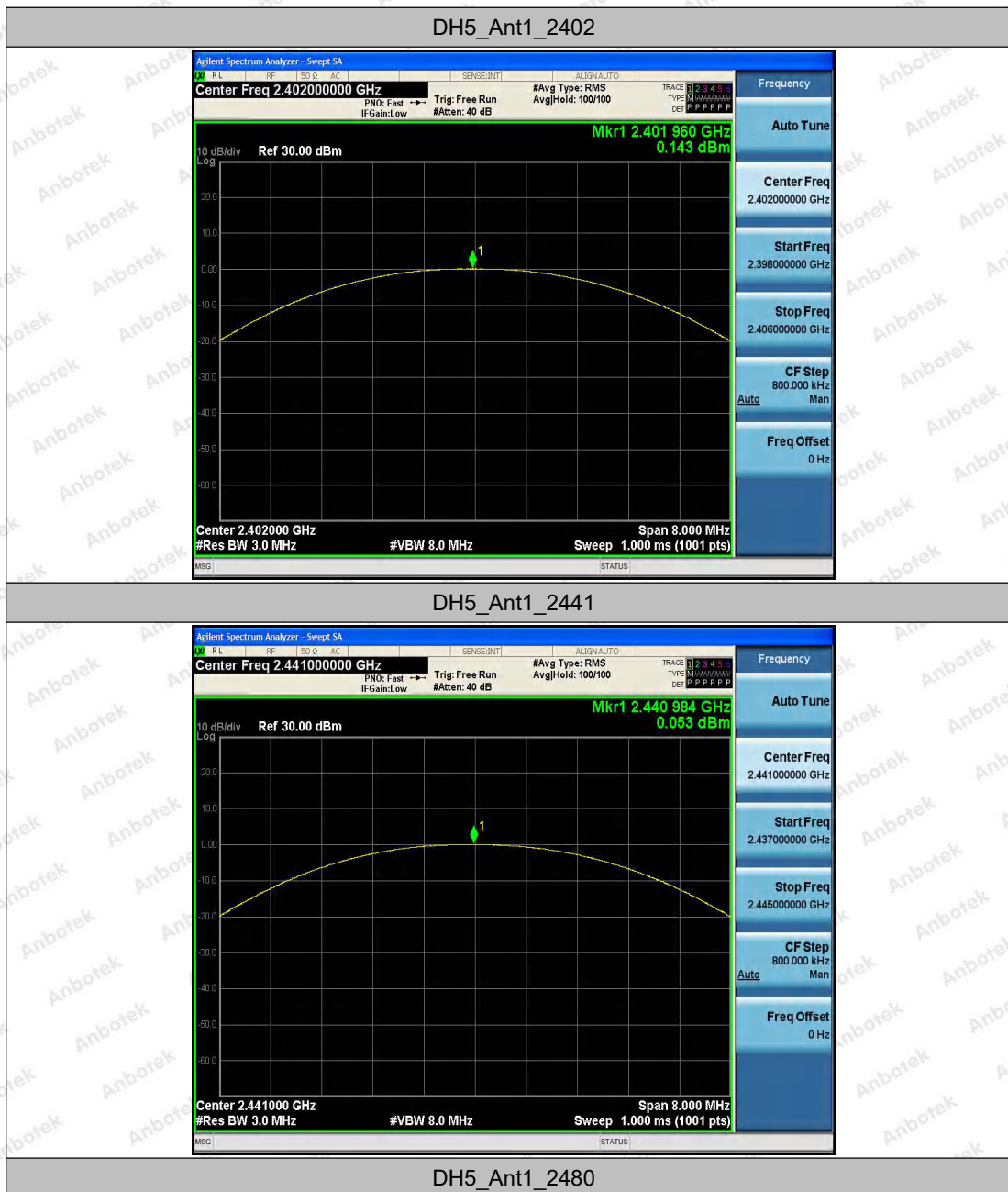
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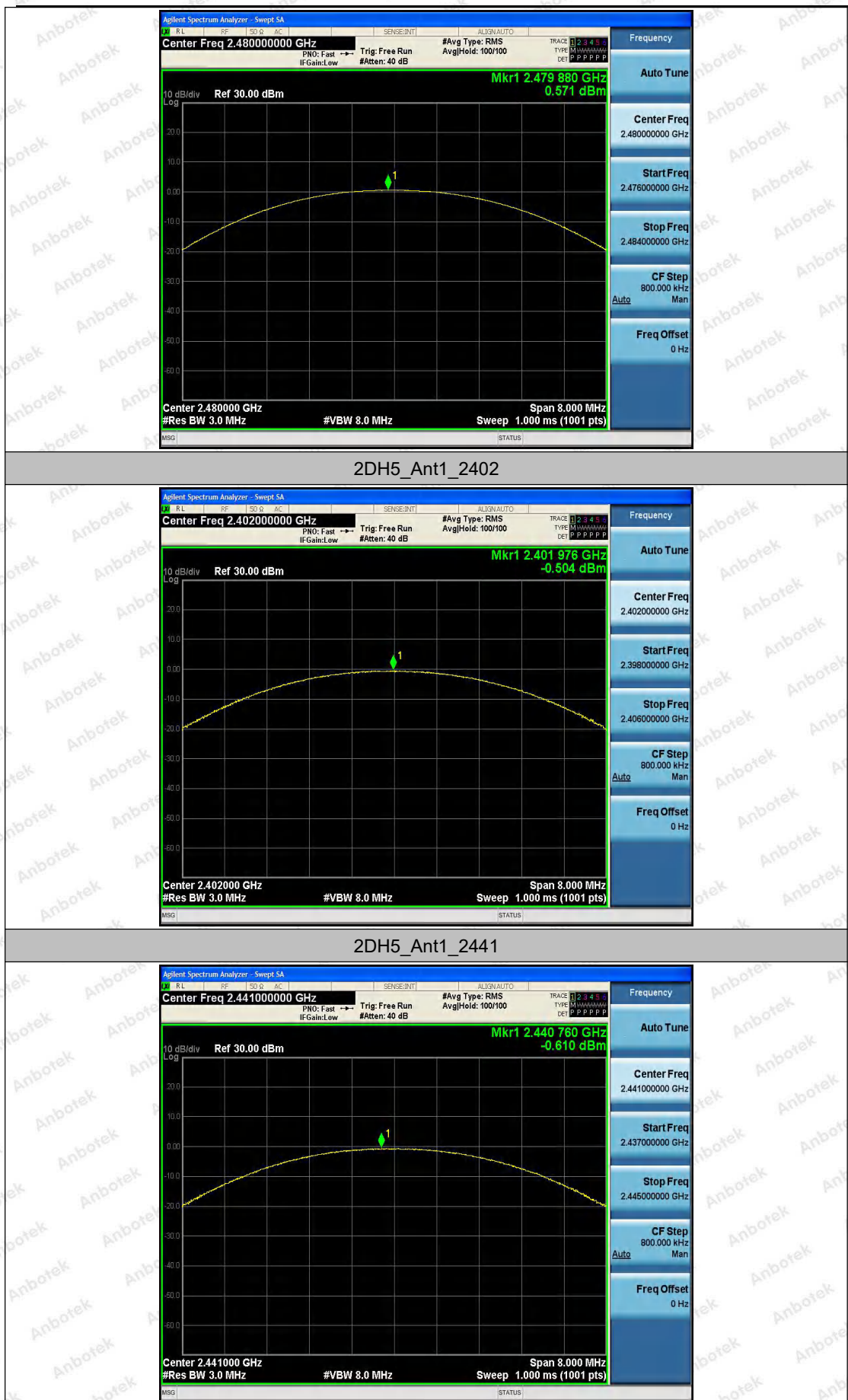
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.14	≤20.97	PASS
		2441	0.05	≤20.97	PASS
		2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	-0.5	≤20.97	PASS
		2441	-0.61	≤20.97	PASS
		2480	-0.16	≤20.97	PASS
3DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-0.5	≤20.97	PASS
		2480	-0.03	≤20.97	PASS

Test Graphs





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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.042	≥ 0.951	PASS
2DH5	Ant1	Hop	1.32	≥ 0.882	PASS
3DH5	Ant1	Hop	1.236	≥ 0.894	PASS

Test Graphs



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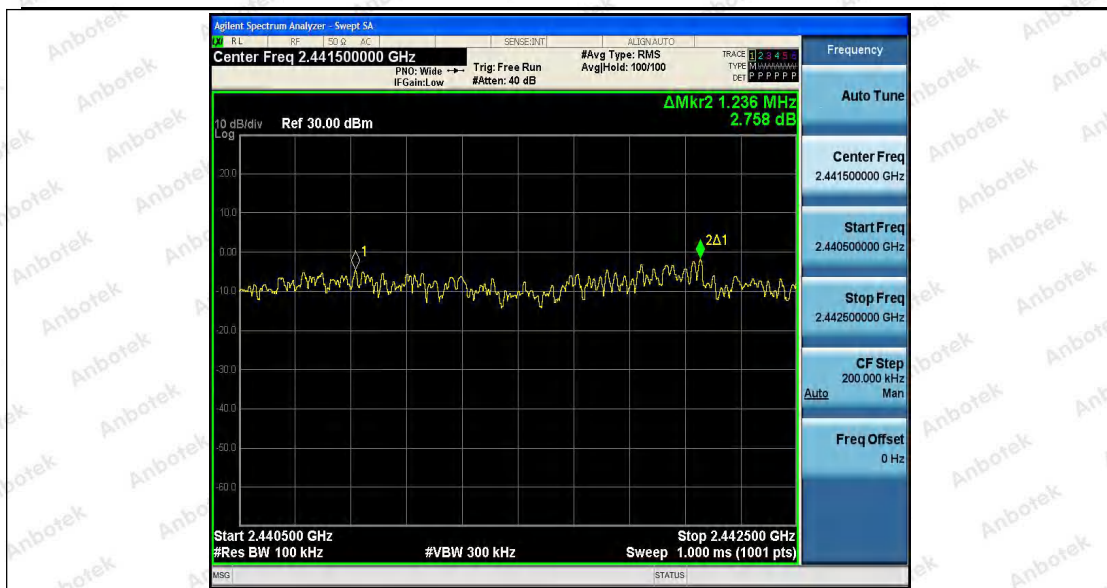
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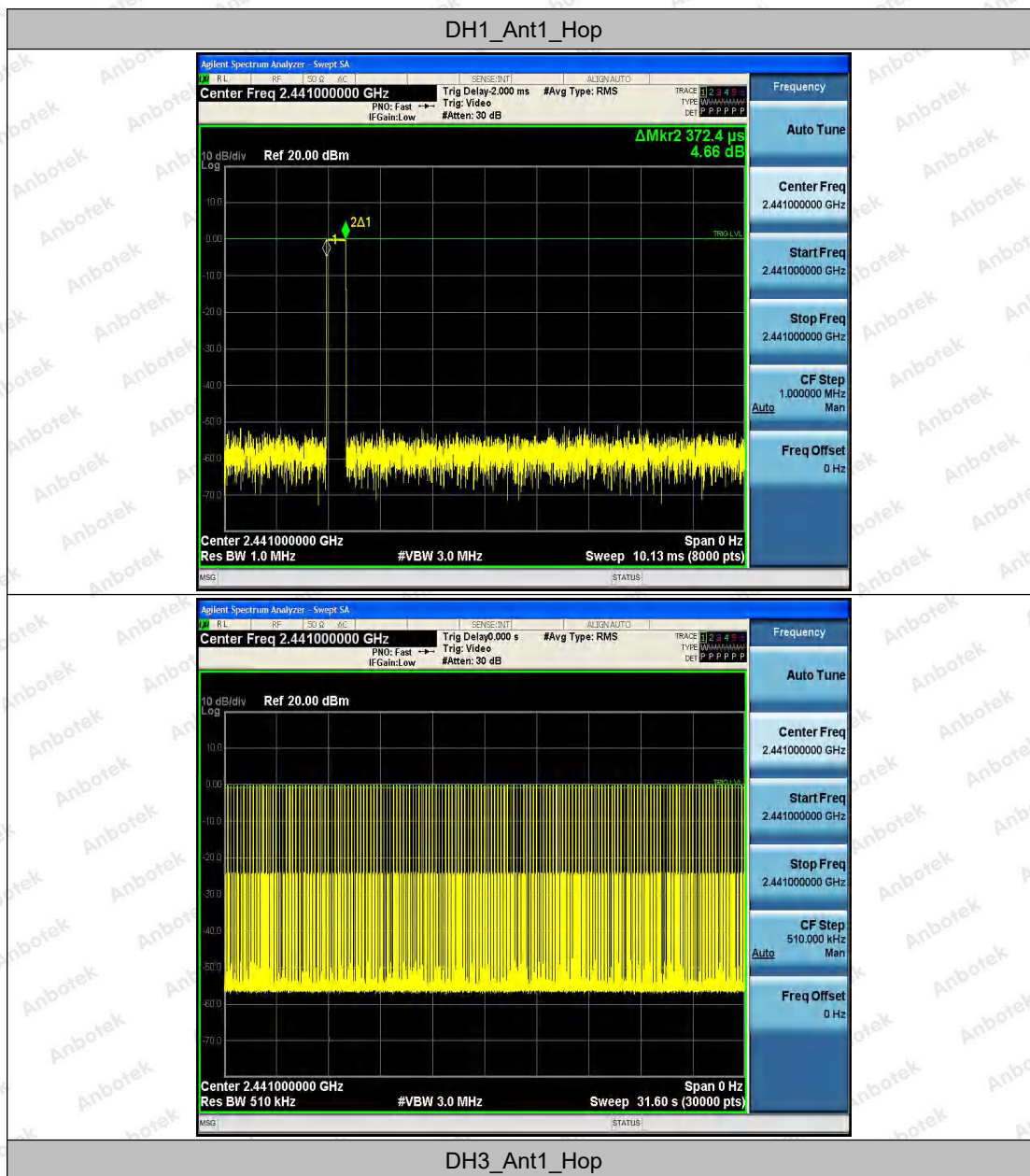
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	109	0.314	≤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	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS

Test Graphs

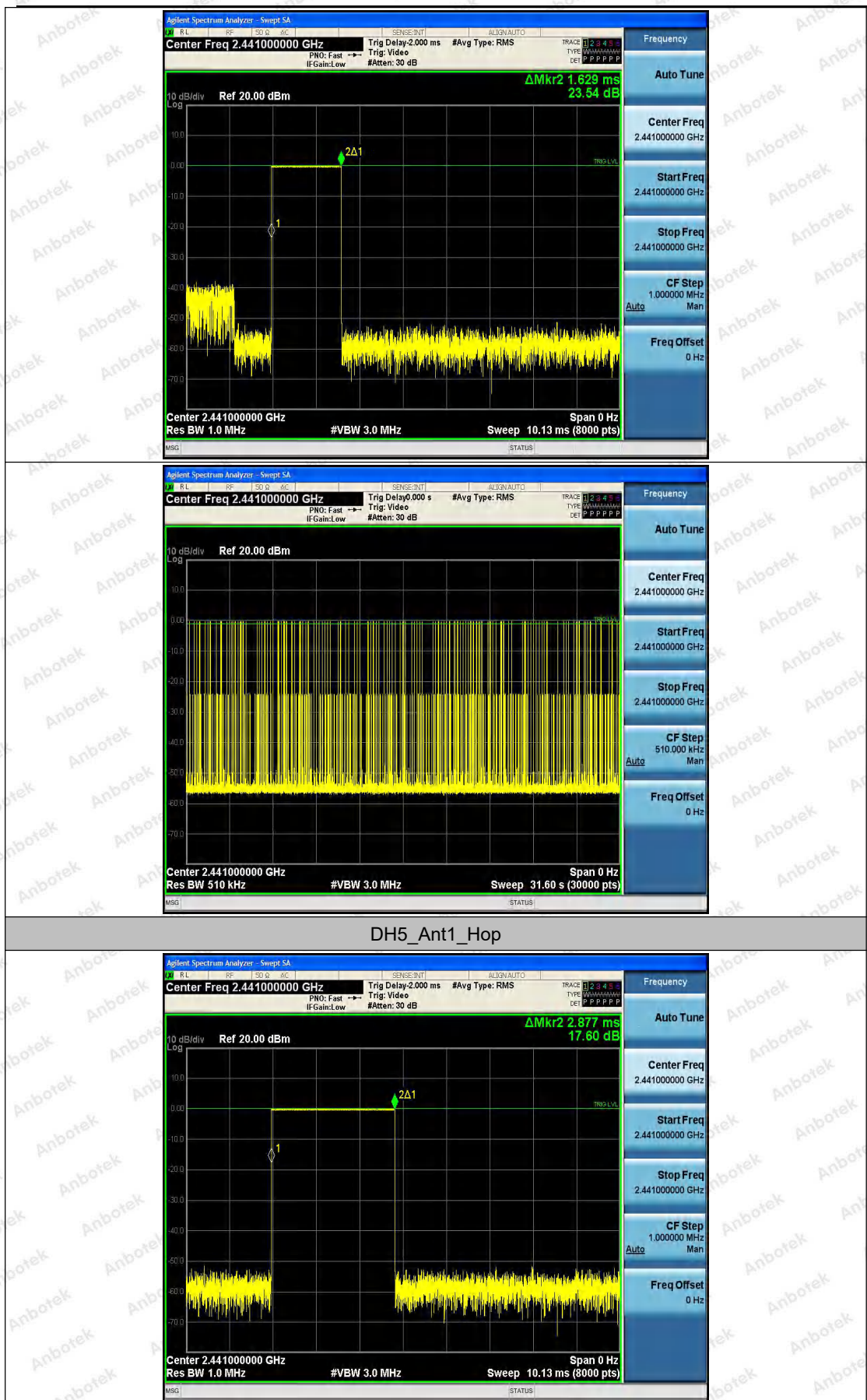


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DH5_Ant1_Hop

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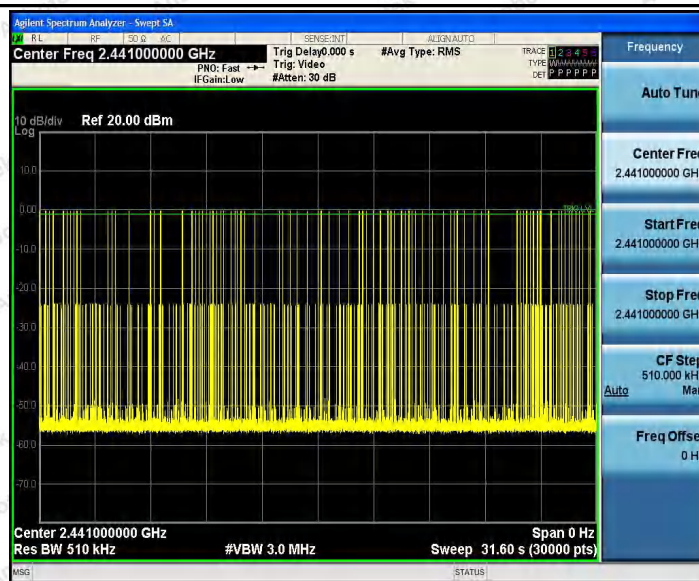
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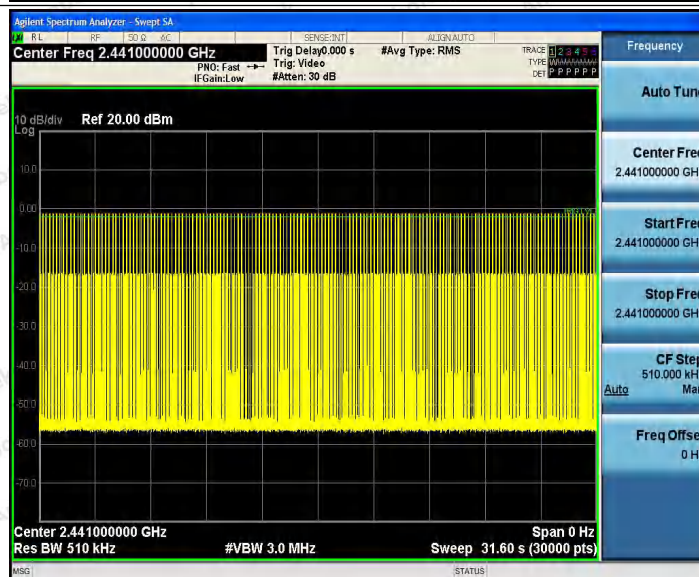
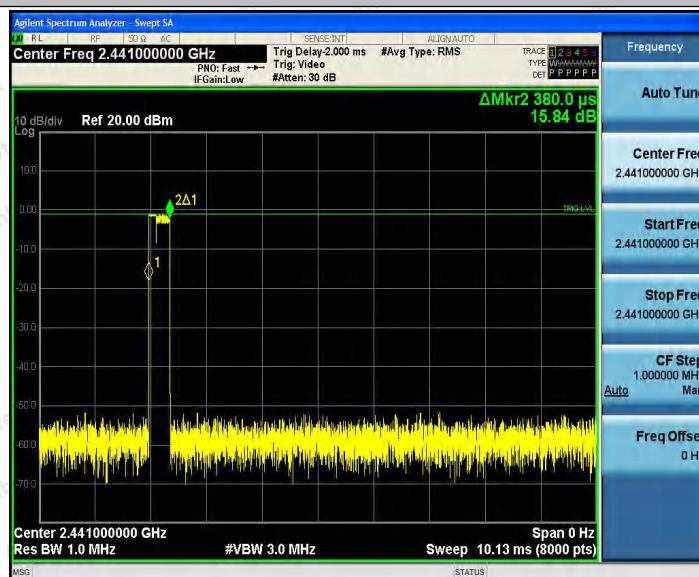
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2DH1_Ant1_Hop



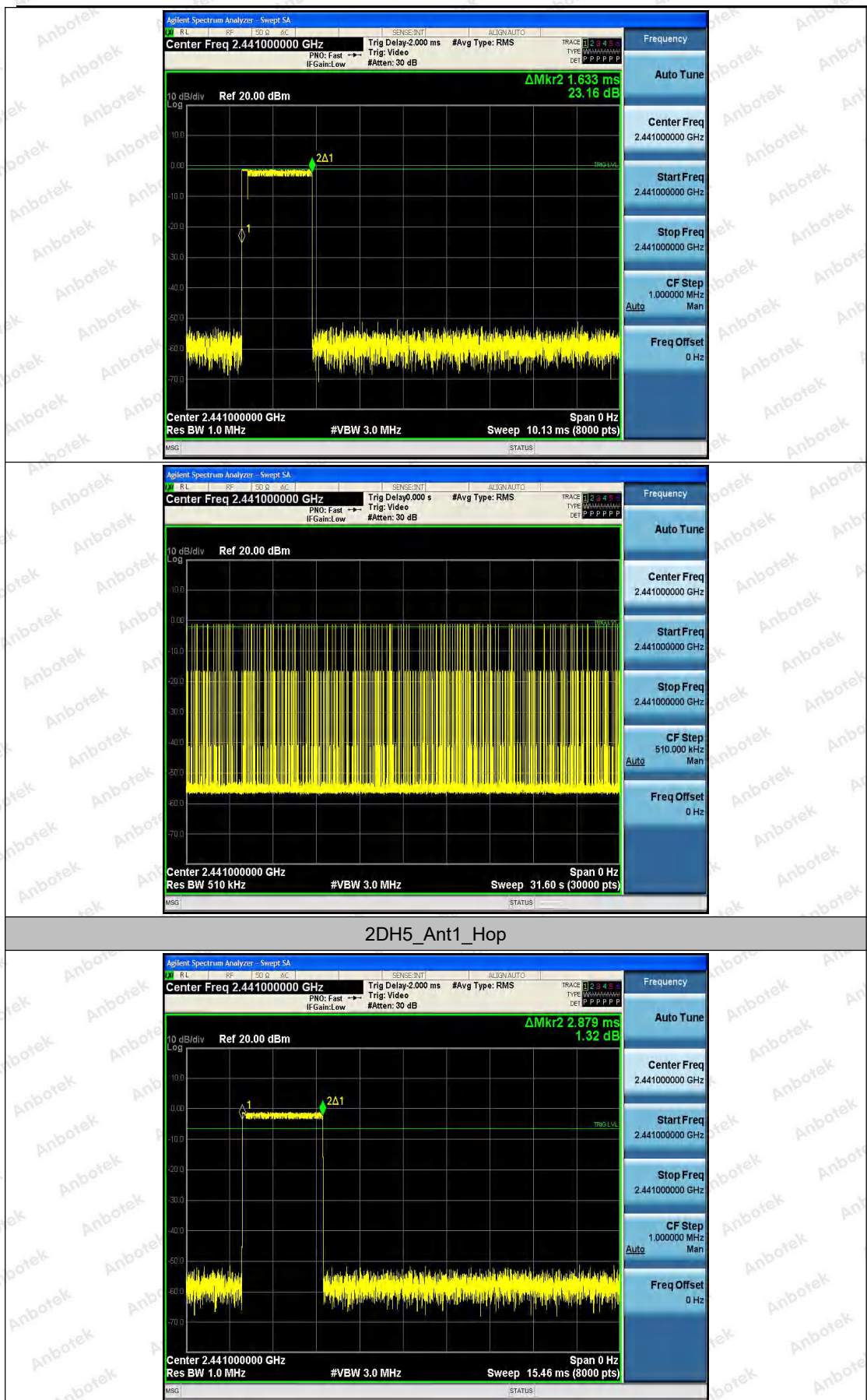
2DH3_Ant1_Hop

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2DH5_Ant1_Hop

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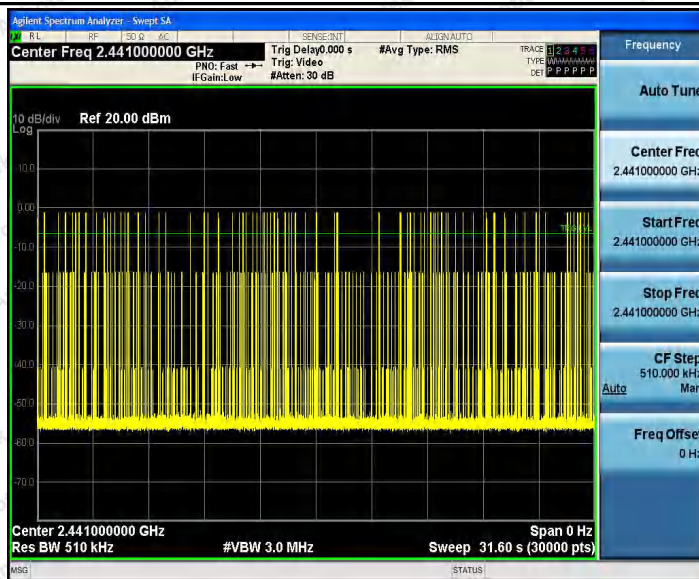
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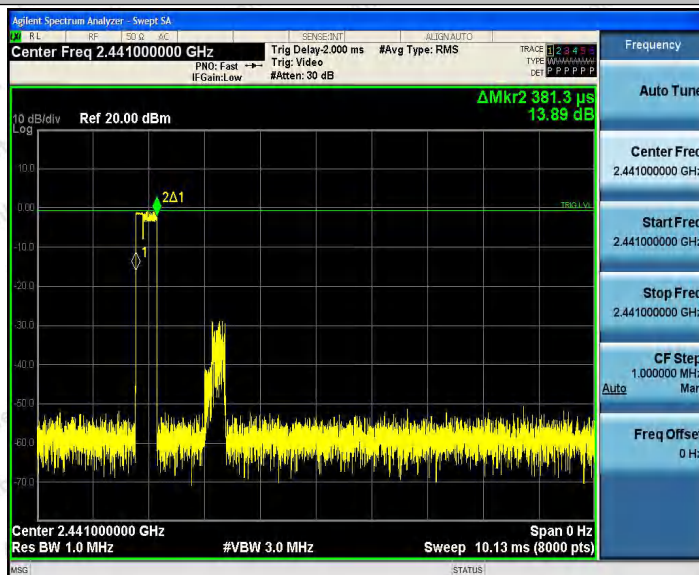
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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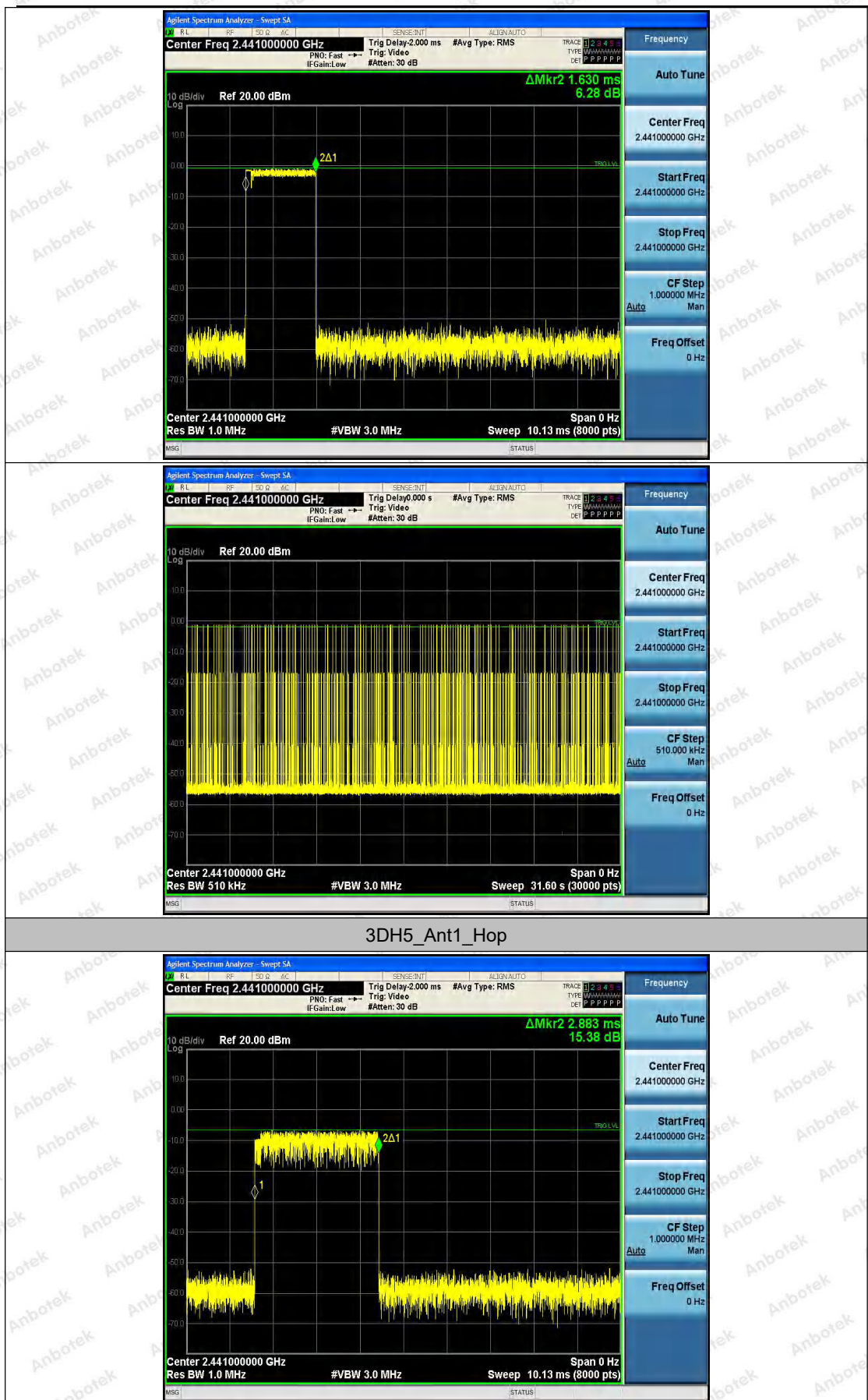
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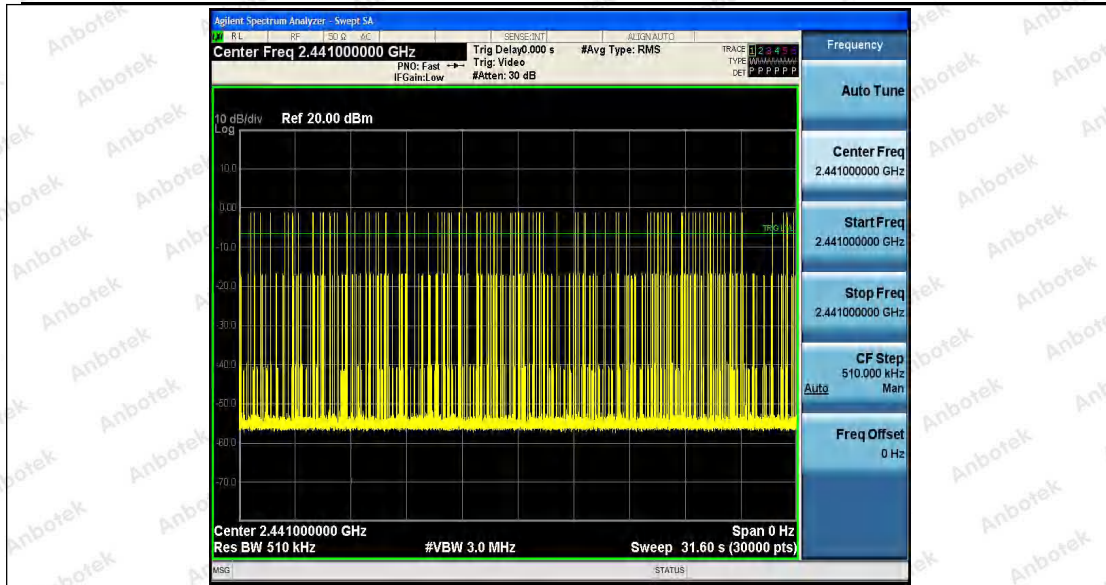


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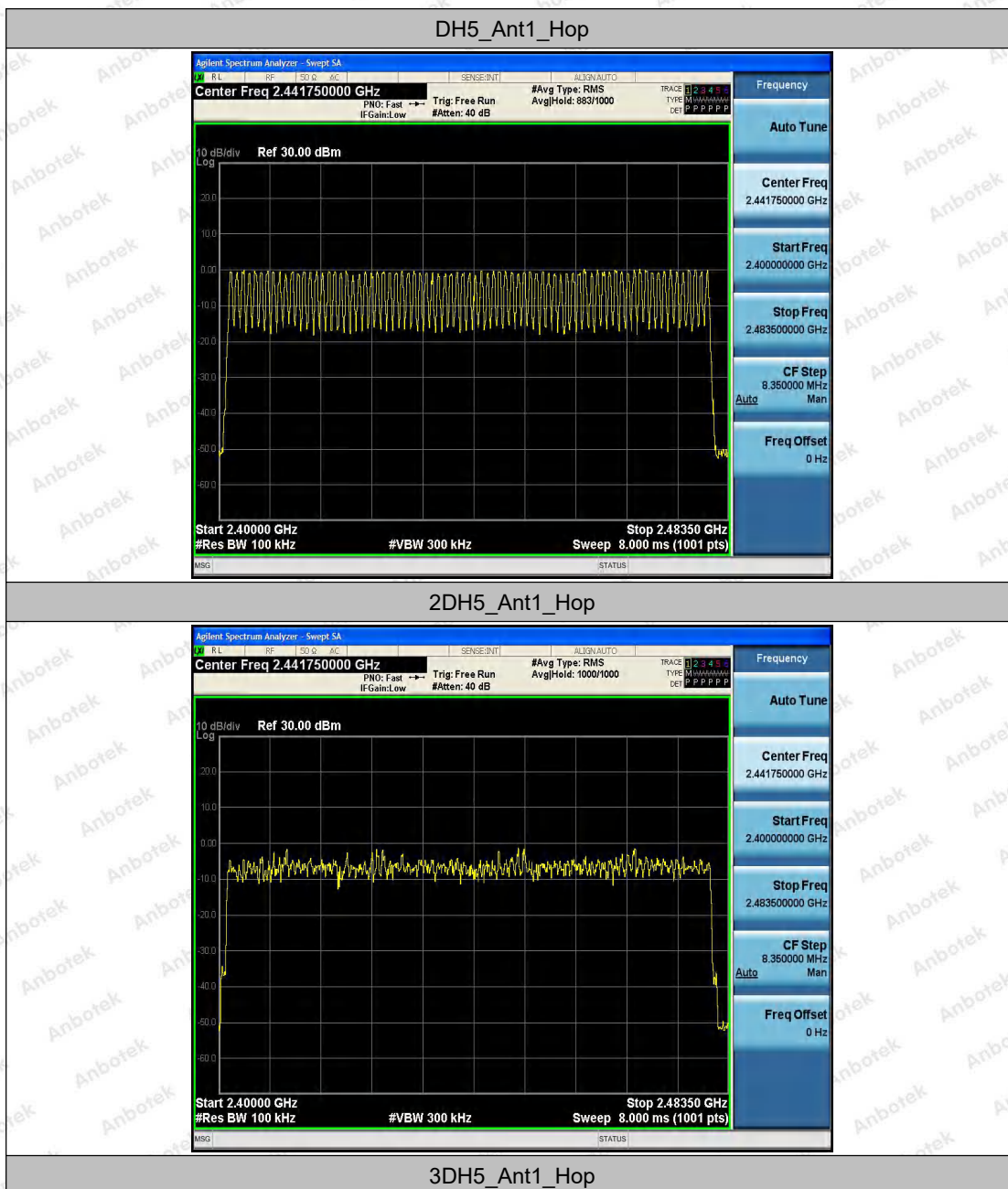
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Appendix F: Number of hopping channels

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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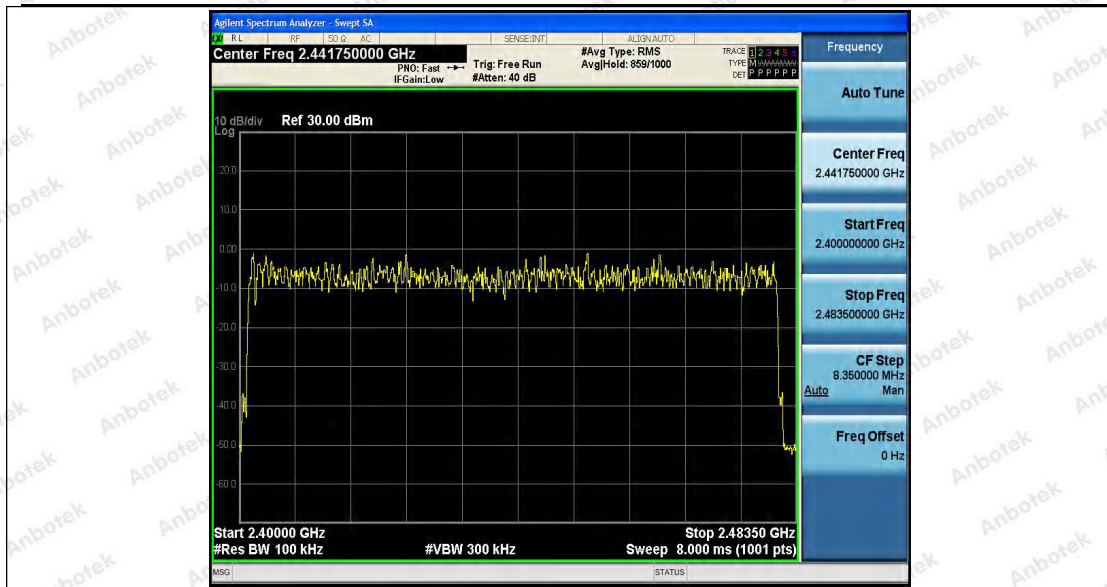
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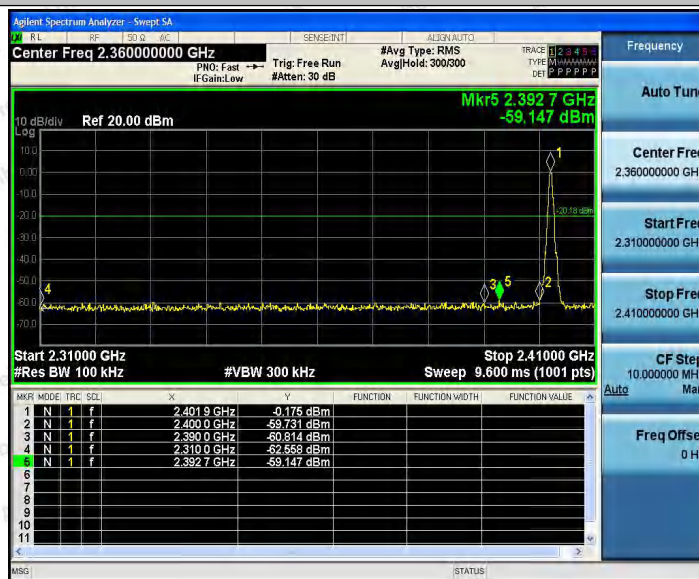
Appendix G: Band edge measurements

Test Result

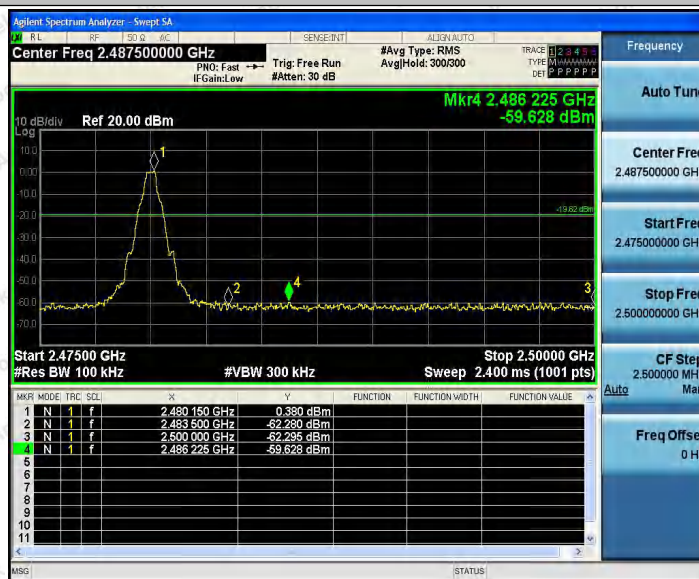
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.18	-59.15	≤-20.18	PASS
		High	2480	0.38	-59.63	≤-19.62	PASS
		Low	Hop	0.00	-59.34	≤-20	PASS
		High	Hop	0.27	-61.88	≤-19.73	PASS
2DH5	Ant1	Low	2402	-1.99	-54.67	≤-21.99	PASS
		High	2480	-0.90	-59.47	≤-20.9	PASS
		Low	Hop	-3.90	-59.59	≤-23.9	PASS
		High	Hop	-4.67	-62.15	≤-24.67	PASS
3DH5	Ant1	Low	2402	-1.26	-57.4	≤-21.26	PASS
		High	2480	-1.16	-59.15	≤-21.16	PASS
		Low	Hop	-1.57	-59.14	≤-21.57	PASS
		High	Hop	-4.57	-63.2	≤-24.57	PASS

Test Graphs

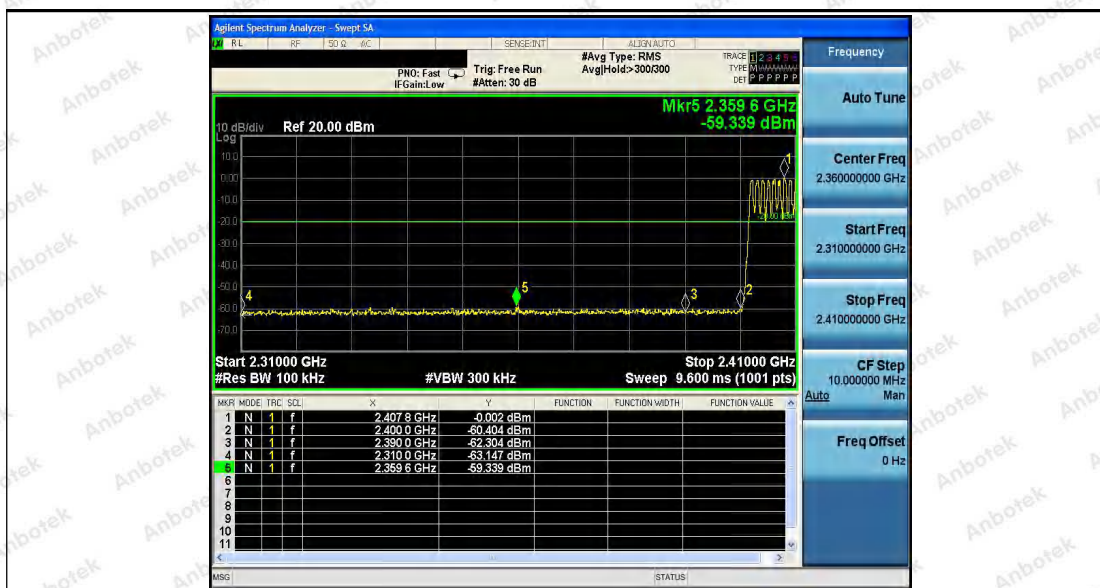
DH5_Ant1_Low_2402



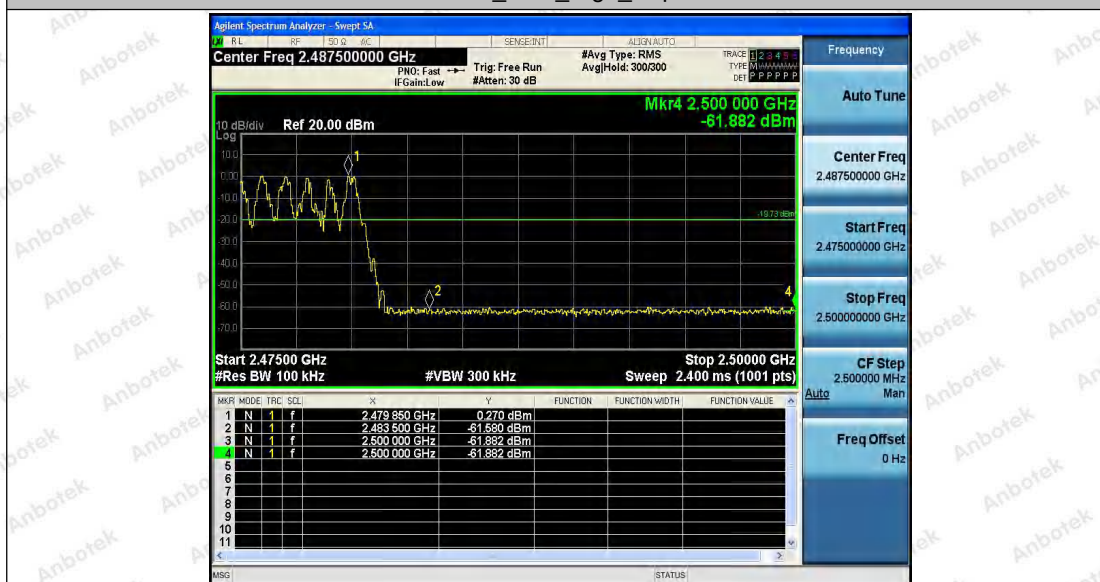
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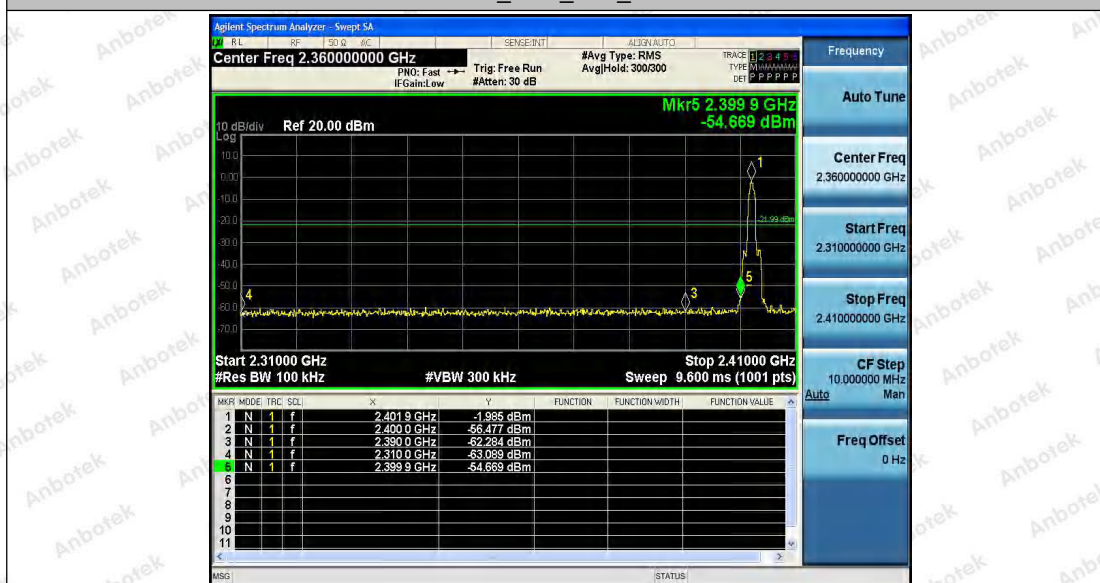
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



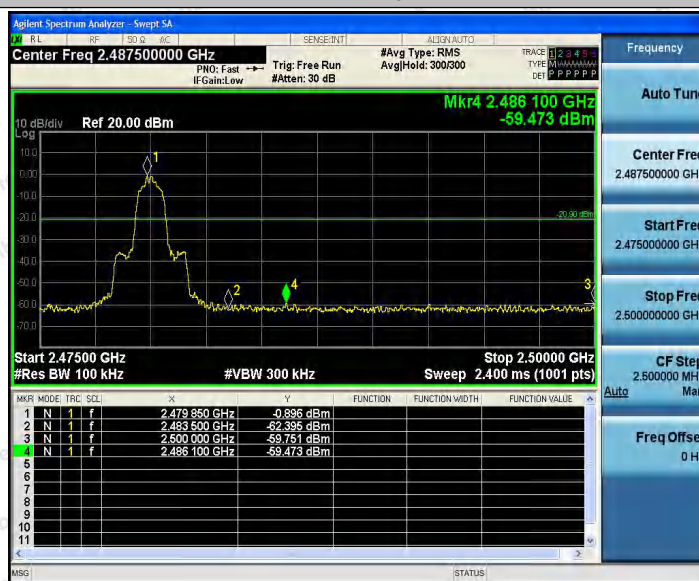
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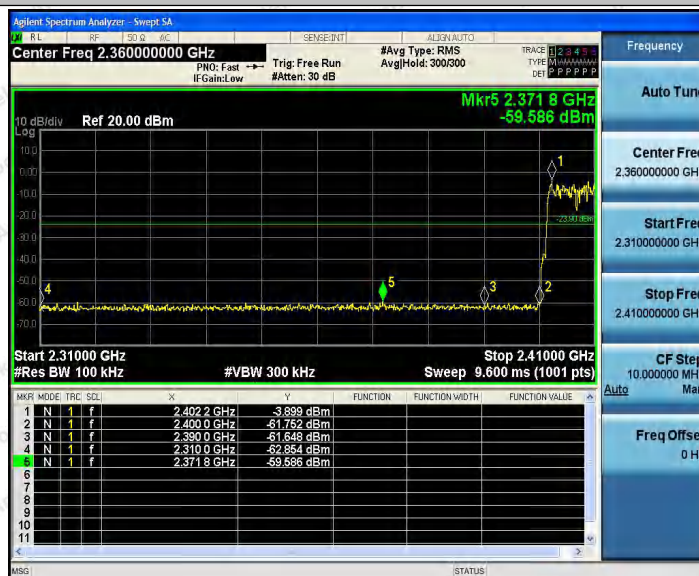
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



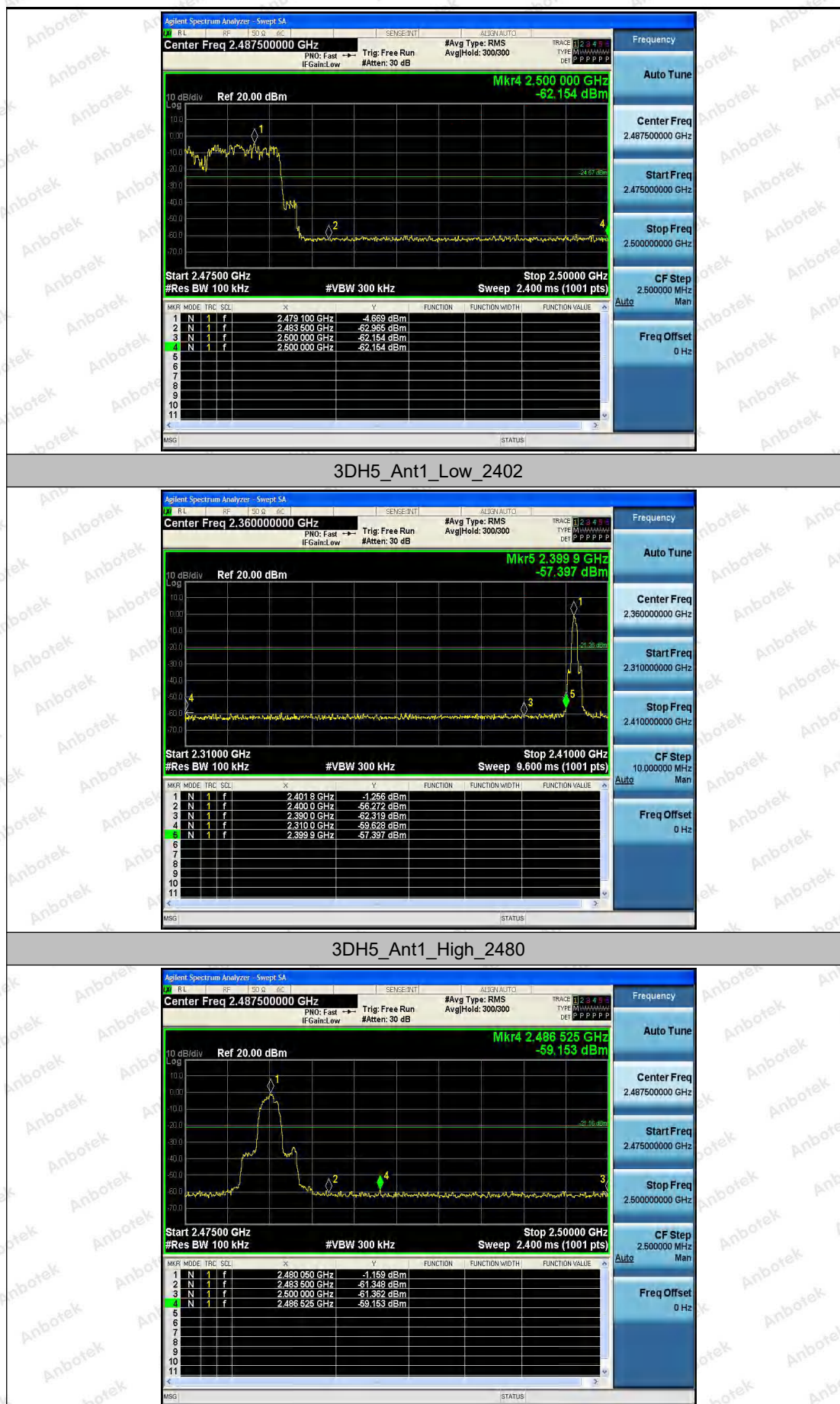
2DH5_Ant1_High_Hop

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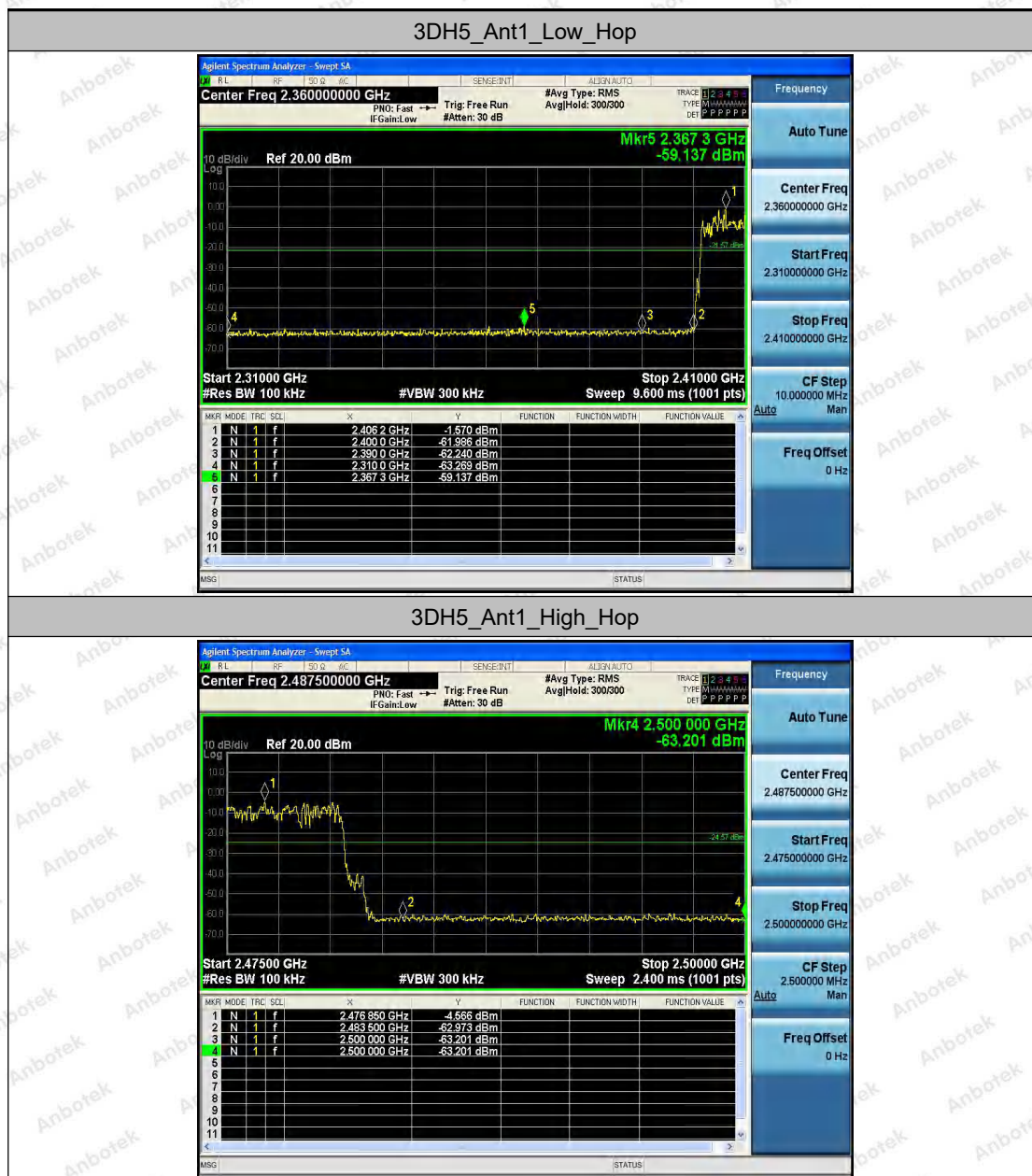


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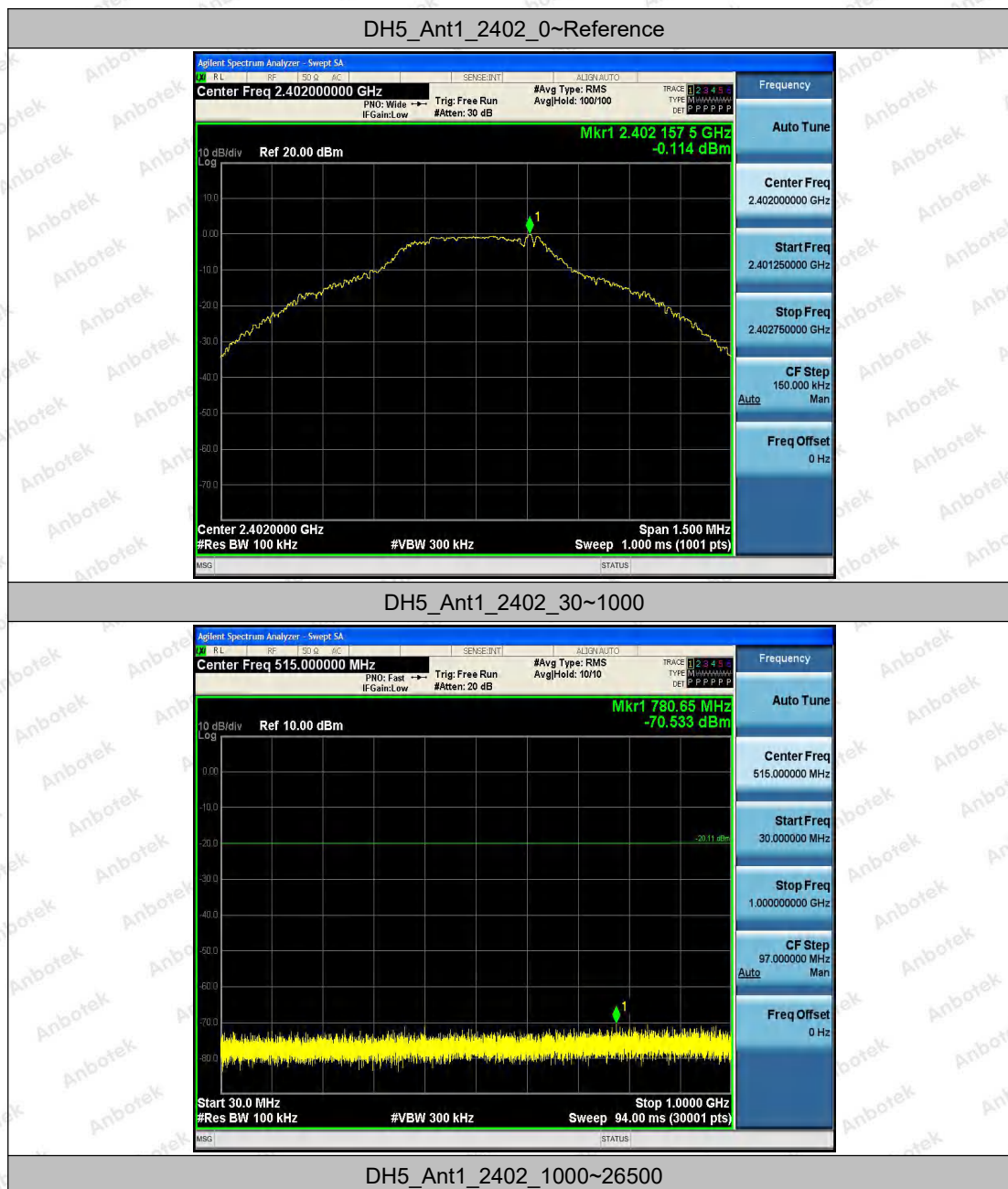


Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-70.53	≤-20.11	PASS
			1000~26500	-0.11	-55.6	≤-20.11	PASS
		2441	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-69.73	≤-20.76	PASS
			1000~26500	-0.76	-55.83	≤-20.76	PASS
		2480	Reference	-0.22	-0.22	---	PASS
			30~1000	-0.22	-70.11	≤-20.22	PASS
			1000~26500	-0.22	-54.57	≤-20.22	PASS
2DH5	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-70.03	≤-21.96	PASS
			1000~26500	-1.96	-54.64	≤-21.96	PASS
		2441	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-69.92	≤-21.96	PASS
			1000~26500	-1.96	-54.85	≤-21.96	PASS
		2480	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-70.07	≤-21.75	PASS
			1000~26500	-1.75	-54.69	≤-21.75	PASS
3DH5	Ant1	2402	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-70.32	≤-21.35	PASS
			1000~26500	-1.35	-55.05	≤-21.35	PASS
		2441	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-69.82	≤-22.01	PASS
			1000~26500	-2.01	-55.71	≤-22.01	PASS
		2480	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-70.3	≤-21.69	PASS
			1000~26500	-1.69	-55.63	≤-21.69	PASS

Test Graphs



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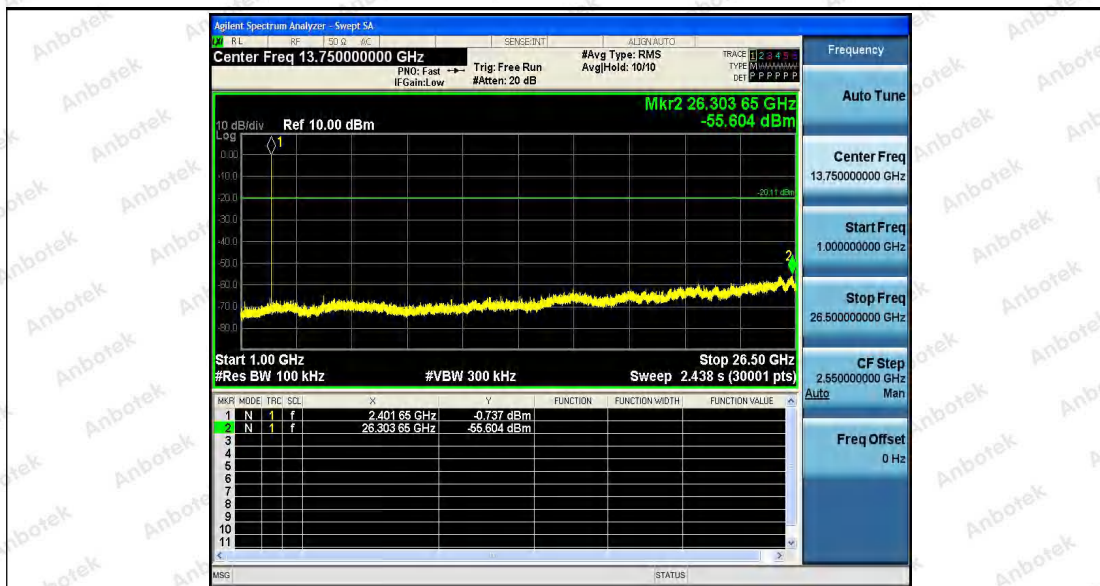
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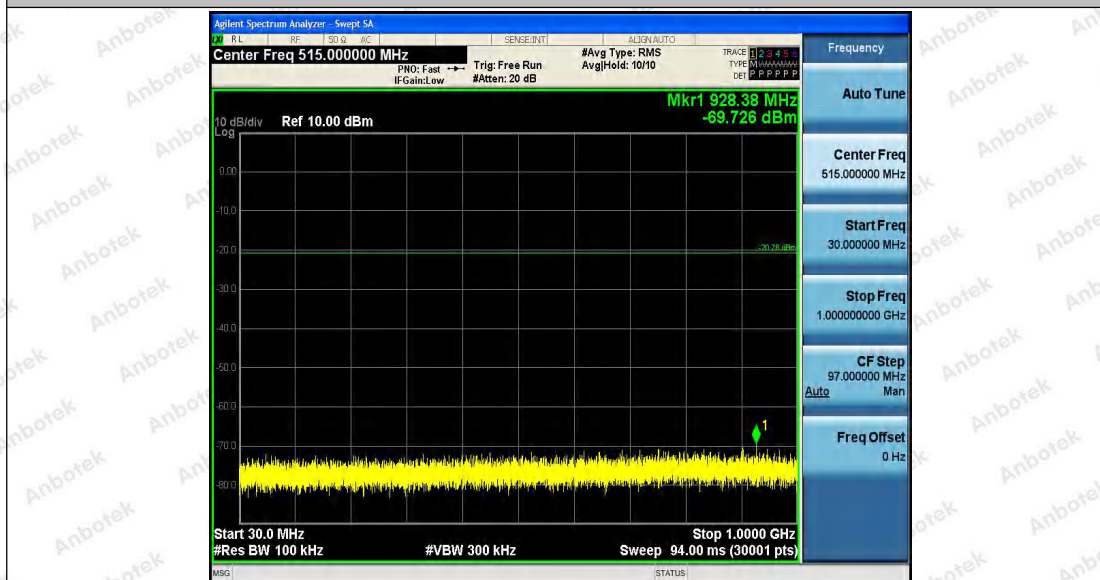
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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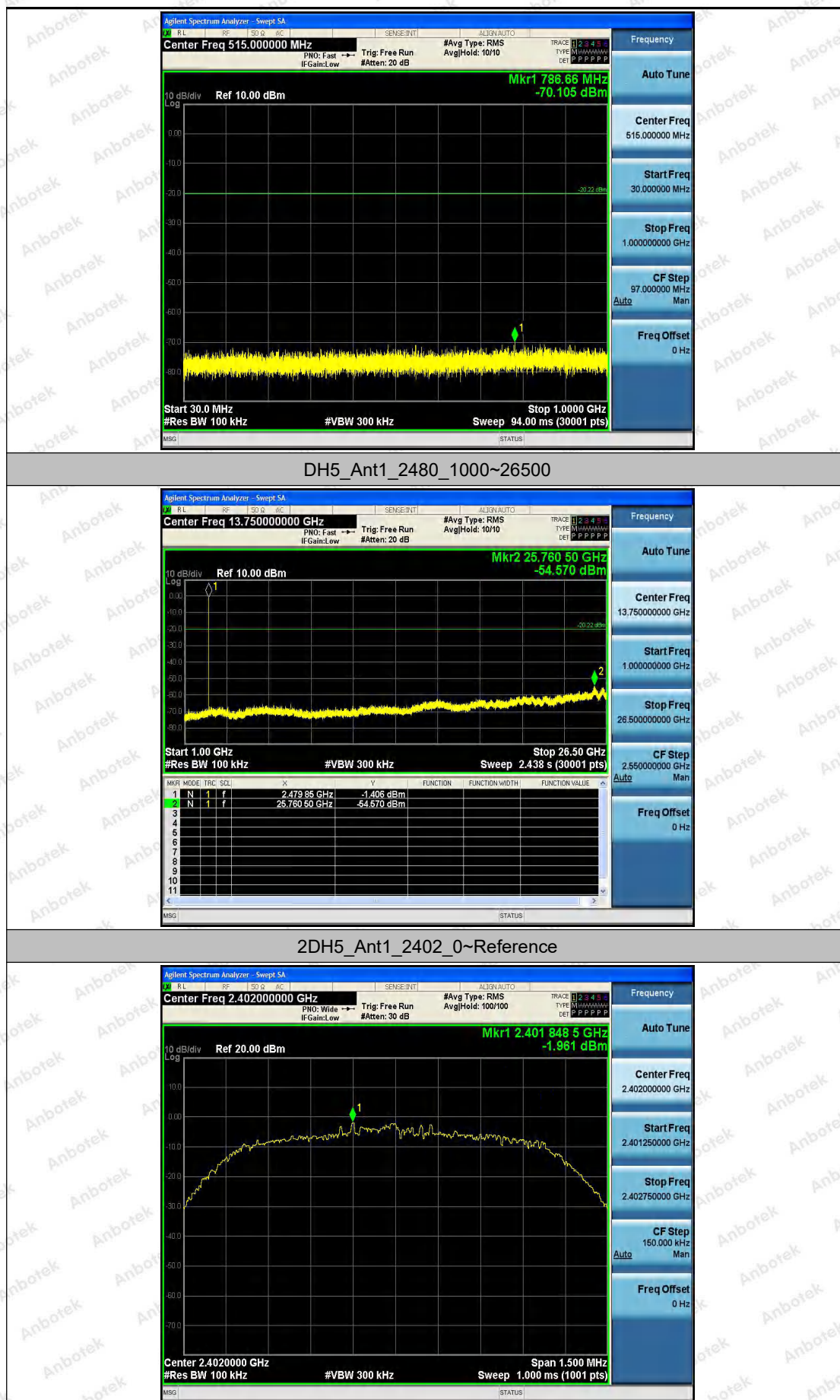
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DH5 Ant1 2480 0~Reference



DH5	Ant1	2480	30~1000
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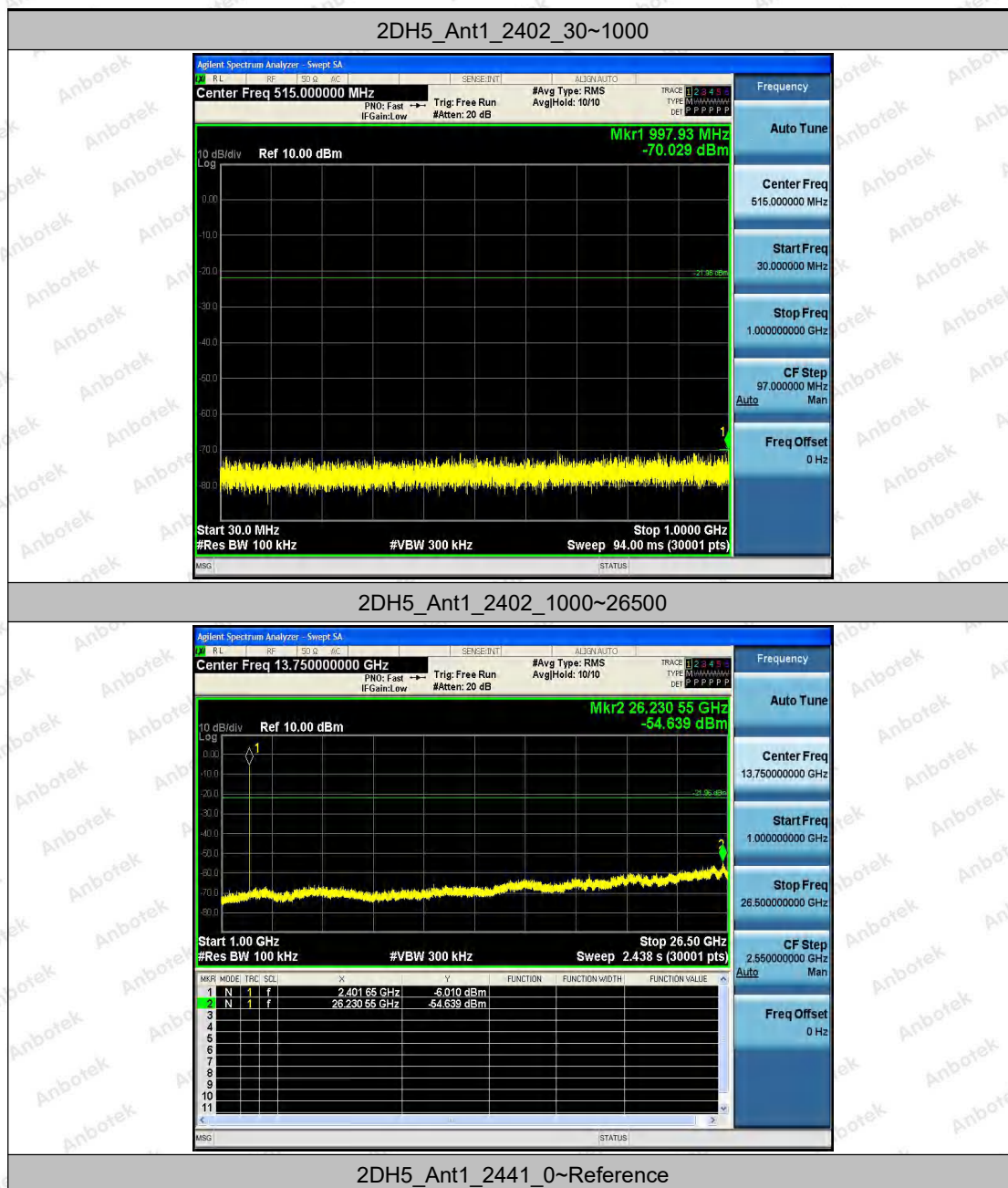


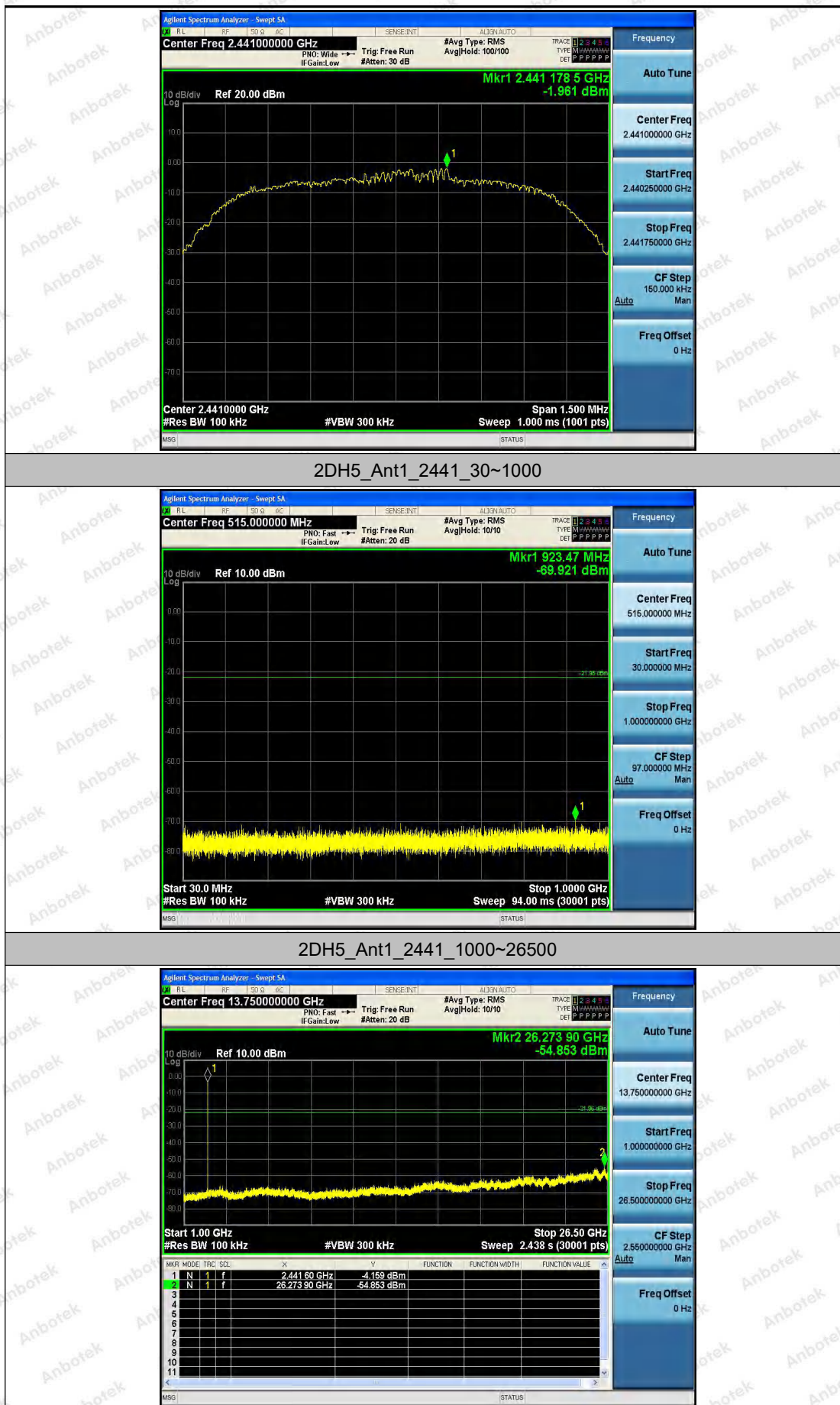
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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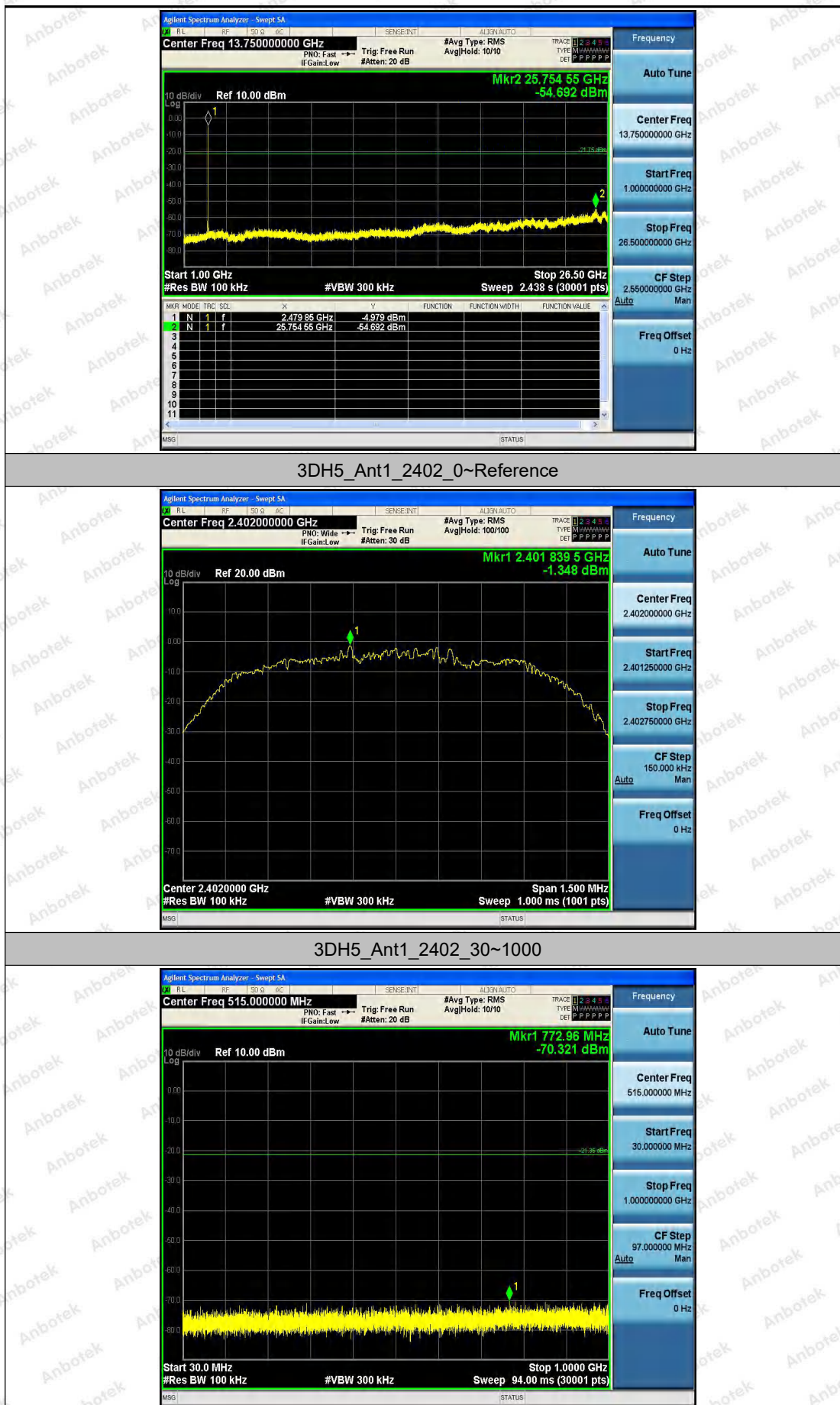
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



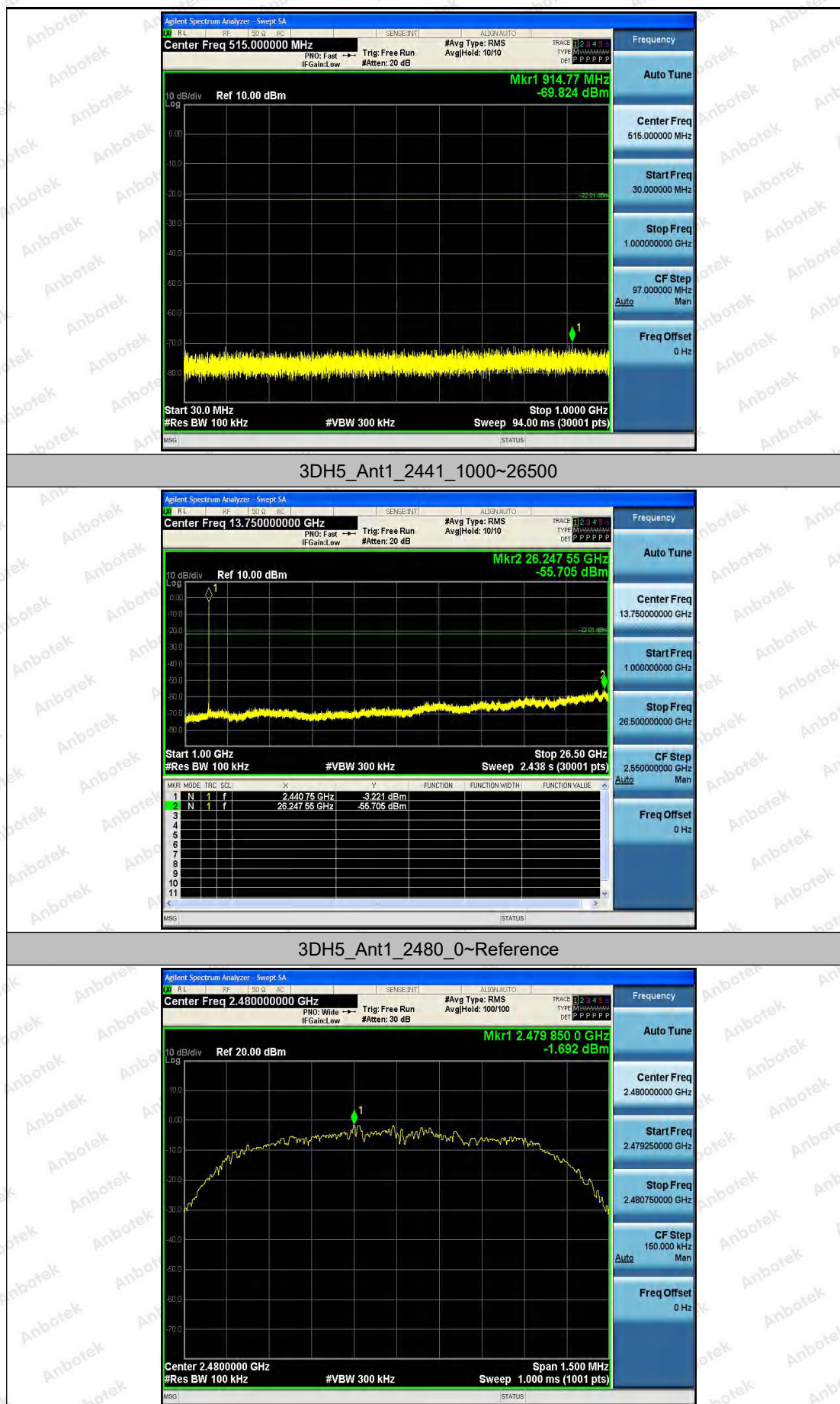
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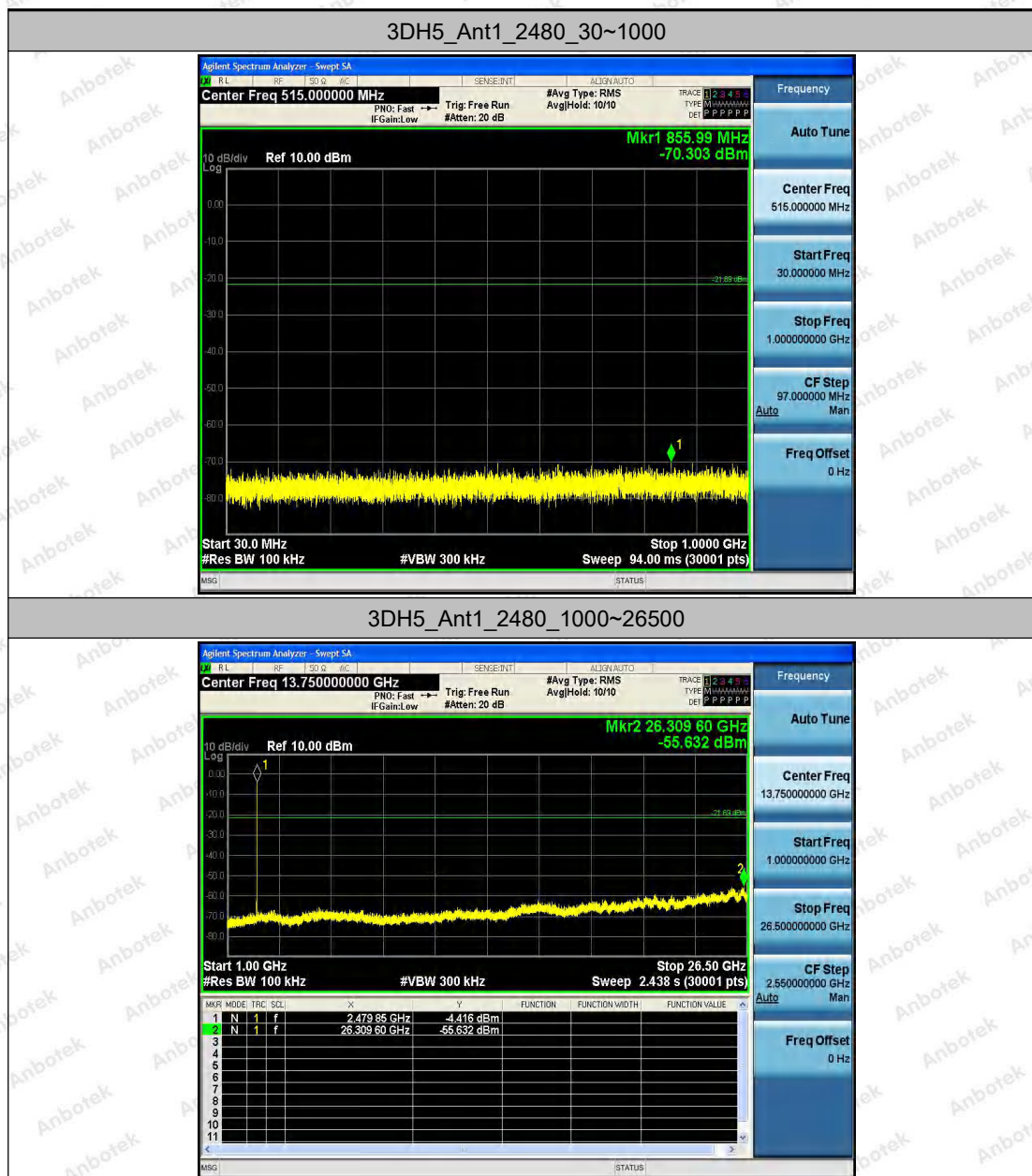


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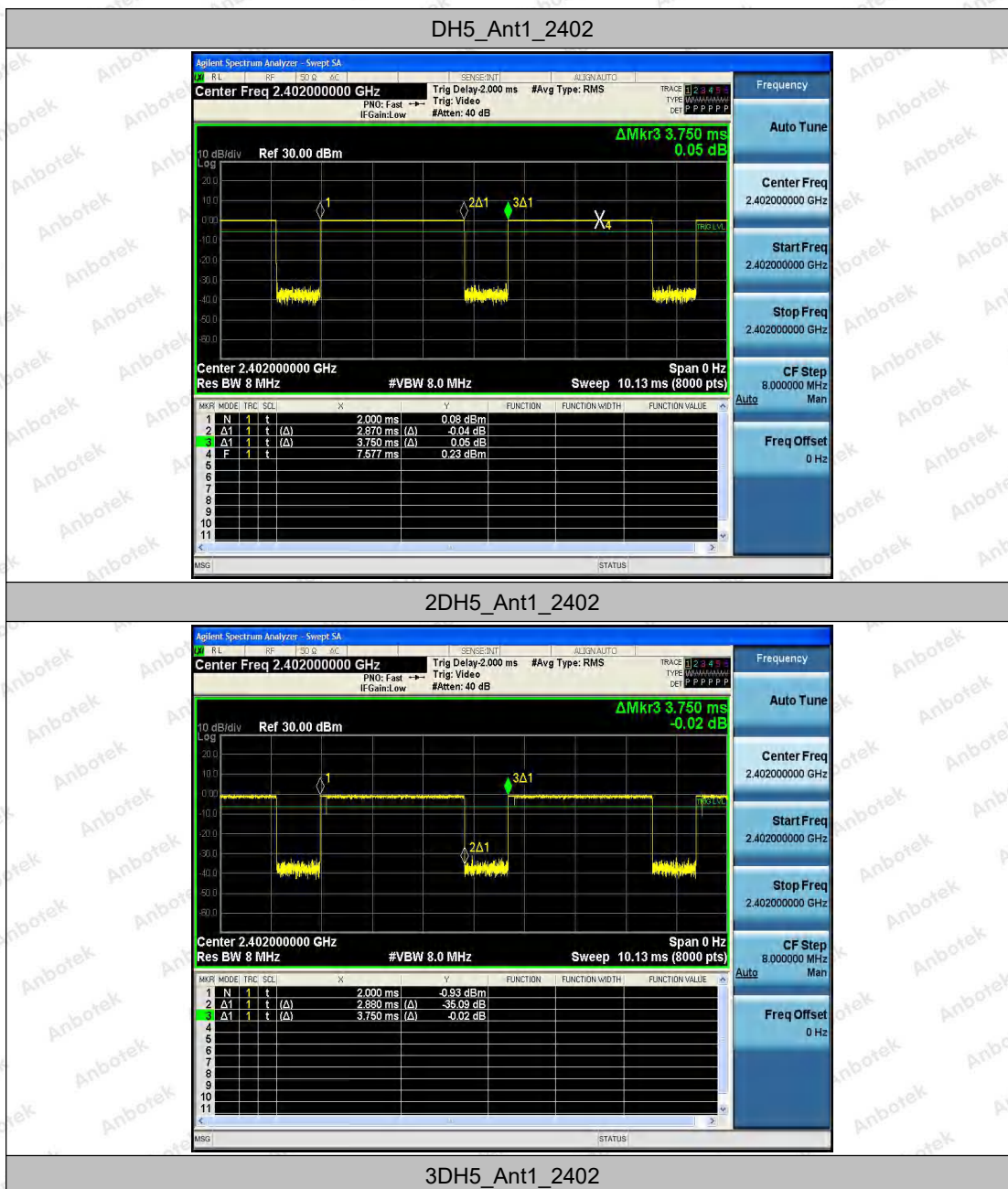
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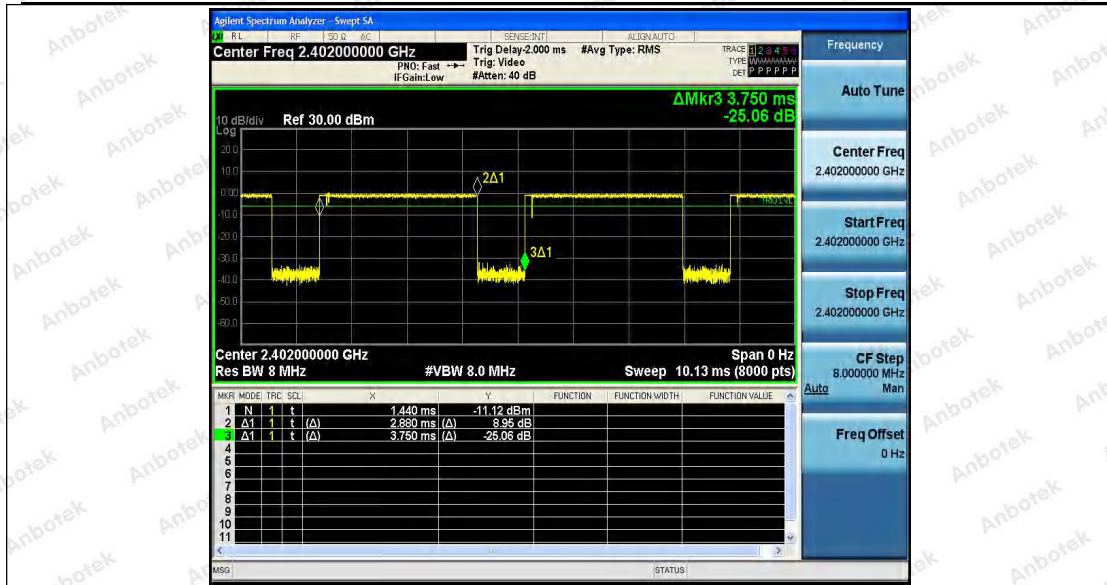
Appendix I: Duty Cycle

Test Result

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---