

Appendix Test Data

Report No.:	18220WC10281701	Test Sample No.:	1-2-2
Start Test Date:	2021.12.21	Finish Test Date:	2021.12.27
Test Engineer:	<i>Jonny He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	0.945	2440.538	2441.483	---	PASS
		2480	0.948	2479.535	2480.483	---	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.338	2479.331	2480.669	---	PASS
3DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.329	2440.328	2441.657	---	PASS
		2480	1.278	2479.349	2480.627	---	PASS

Test Graphs

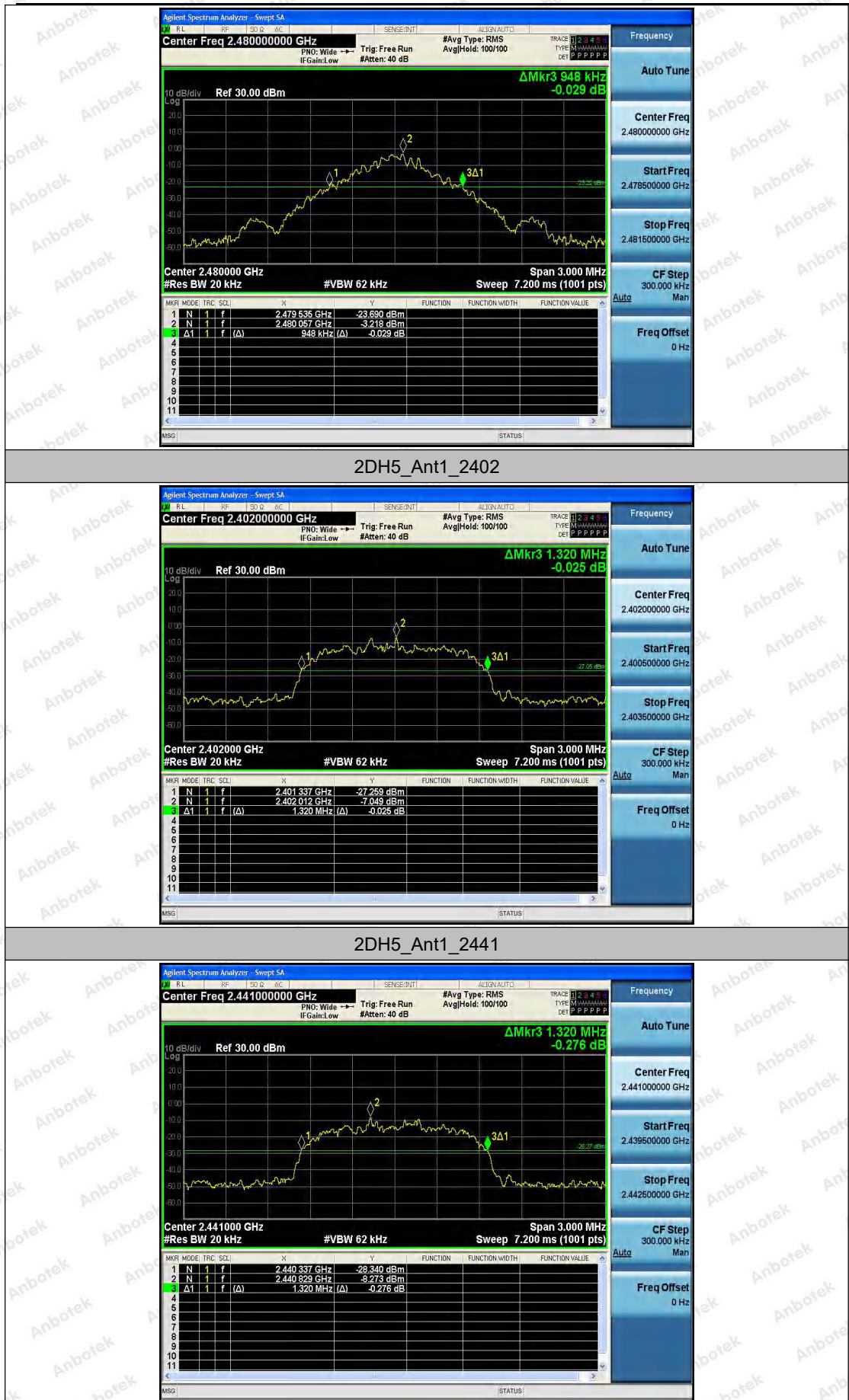
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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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	0.89576	2401.554	2402.449	---	PASS
		2441	0.88983	2440.555	2441.445	---	PASS
		2480	0.89241	2479.553	2480.446	---	PASS
2DH5	Ant1	2402	1.1950	2401.400	2402.595	---	PASS
		2441	1.1909	2440.403	2441.593	---	PASS
		2480	1.1879	2479.404	2480.591	---	PASS
3DH5	Ant1	2402	1.2063	2401.387	2402.594	---	PASS
		2441	1.2091	2440.385	2441.594	---	PASS
		2480	1.1935	2479.396	2480.590	---	PASS

Test Graphs

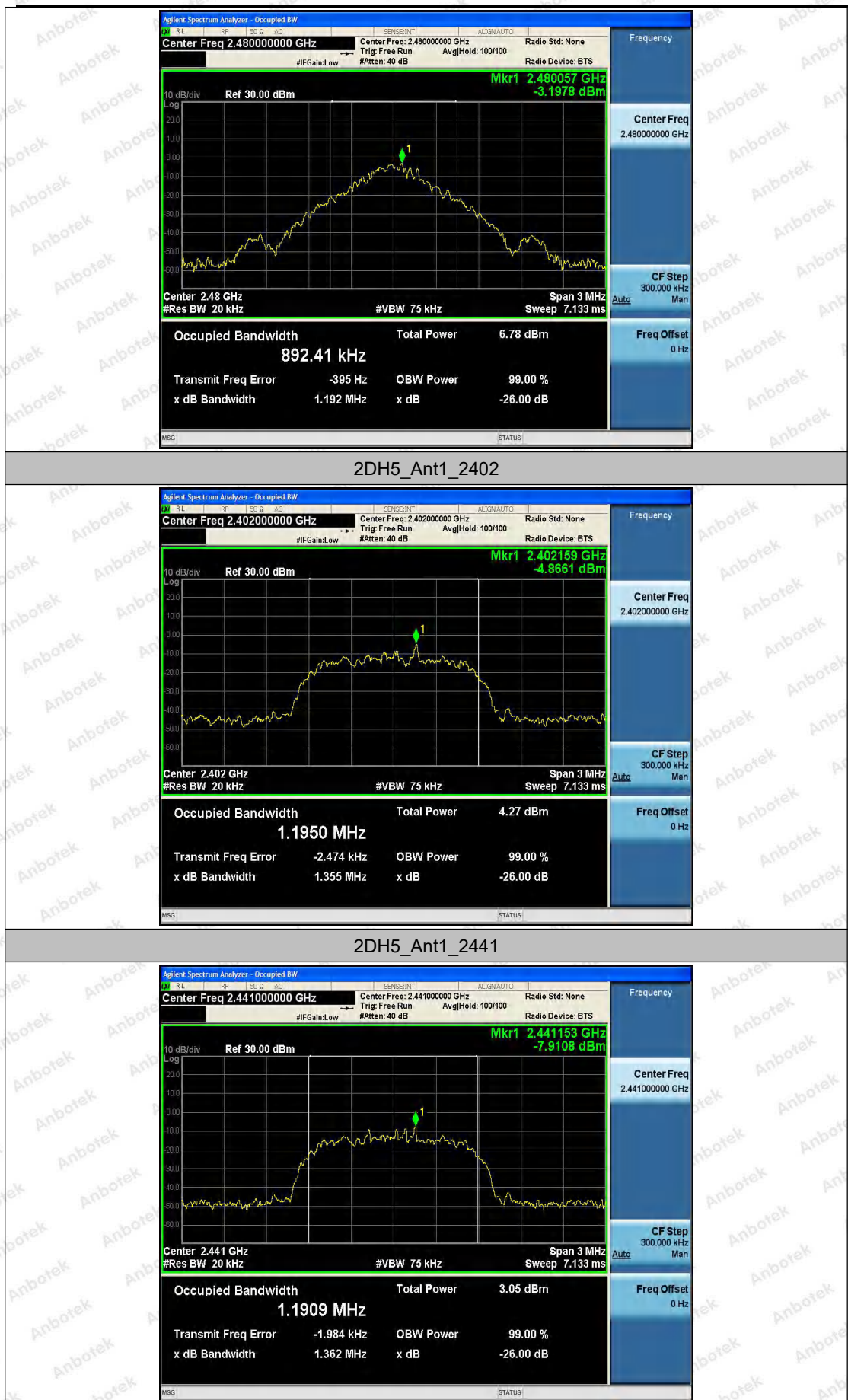


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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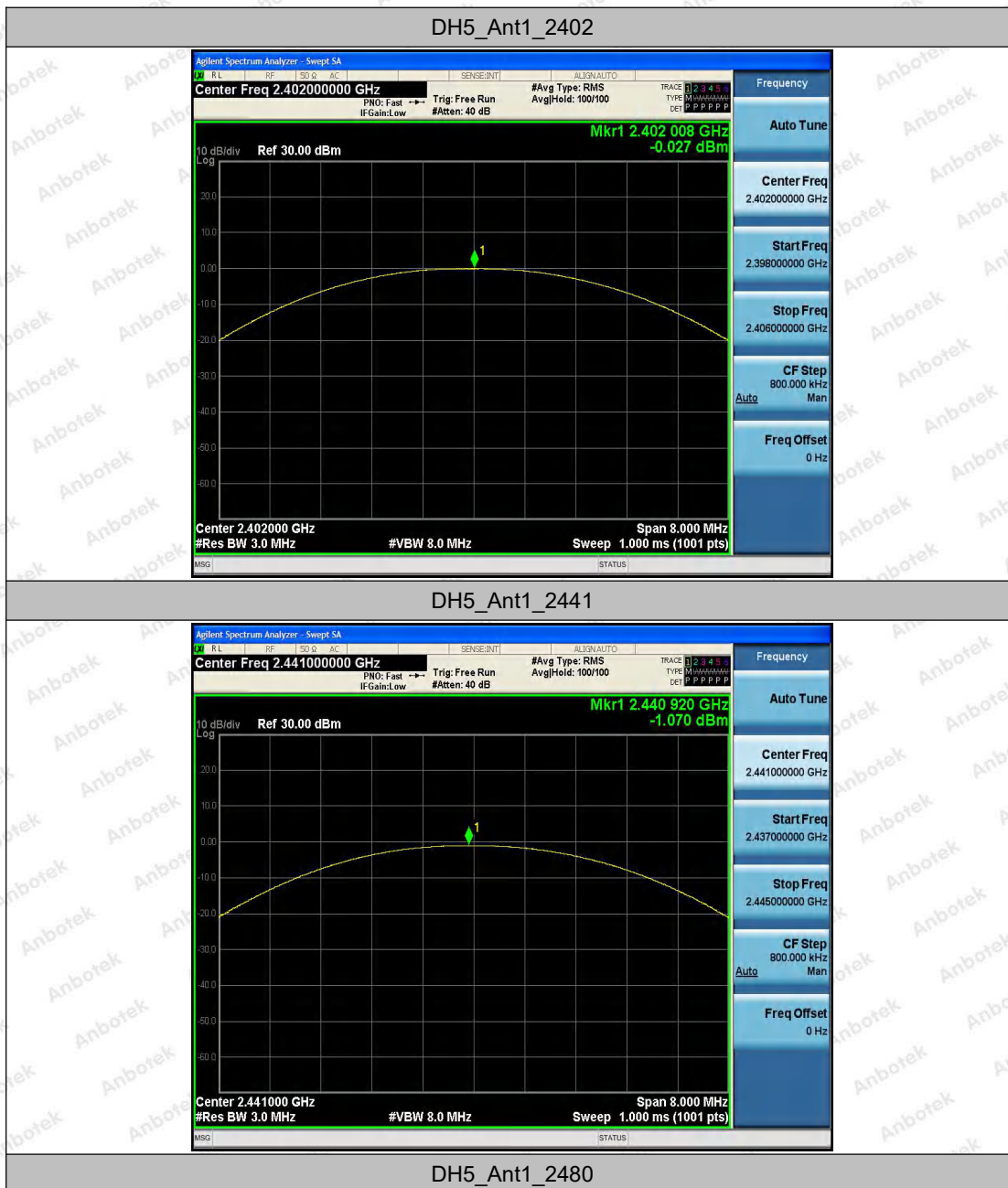
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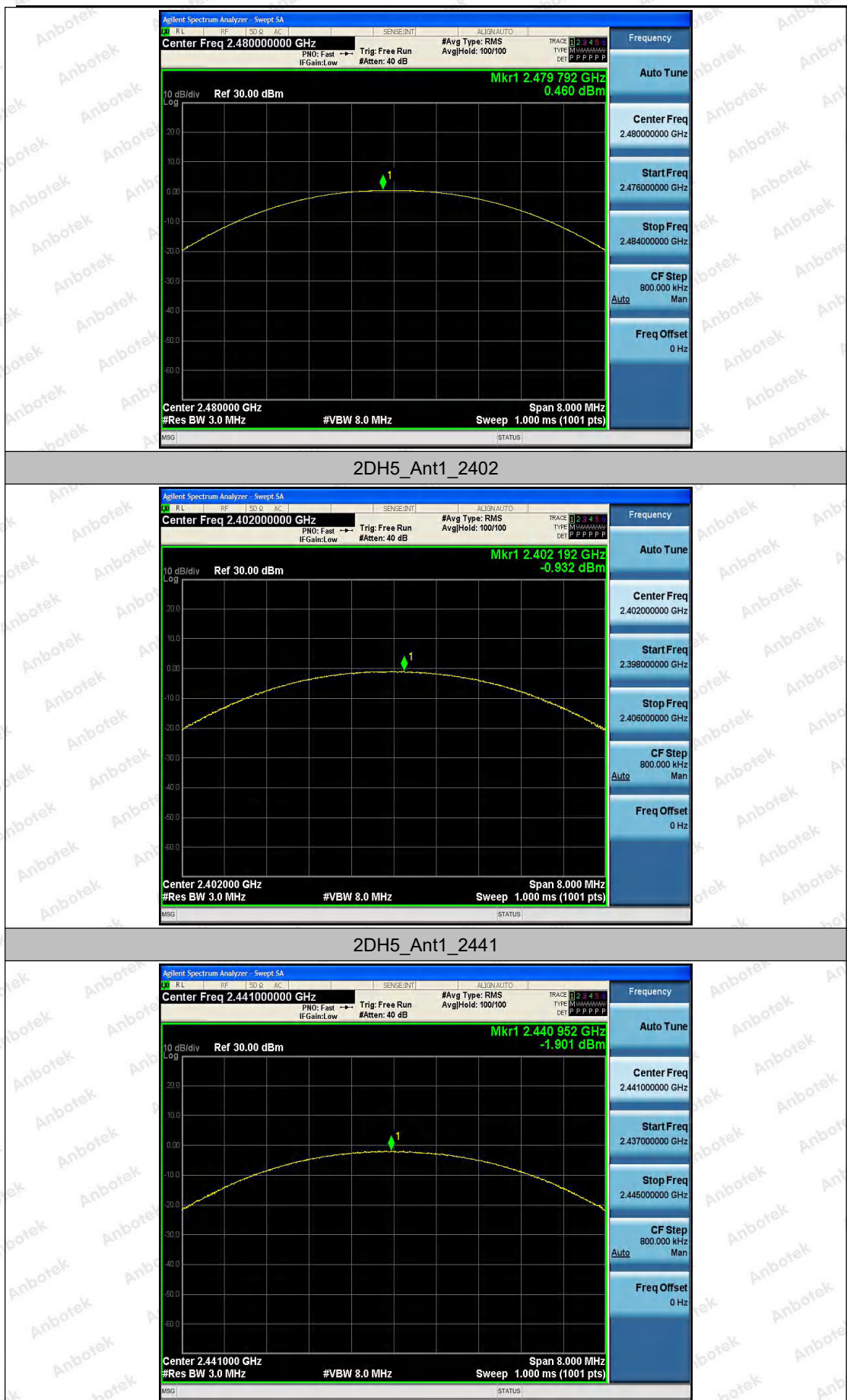
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.03	≤20.97	PASS
		2441	-1.07	≤20.97	PASS
		2480	0.46	≤20.97	PASS
2DH5	Ant1	2402	-0.93	≤20.97	PASS
		2441	-1.9	≤20.97	PASS
		2480	-0.45	≤20.97	PASS
3DH5	Ant1	2402	-0.58	≤20.97	PASS
		2441	-1.66	≤20.97	PASS
		2480	-0.2	≤20.97	PASS

Test Graphs





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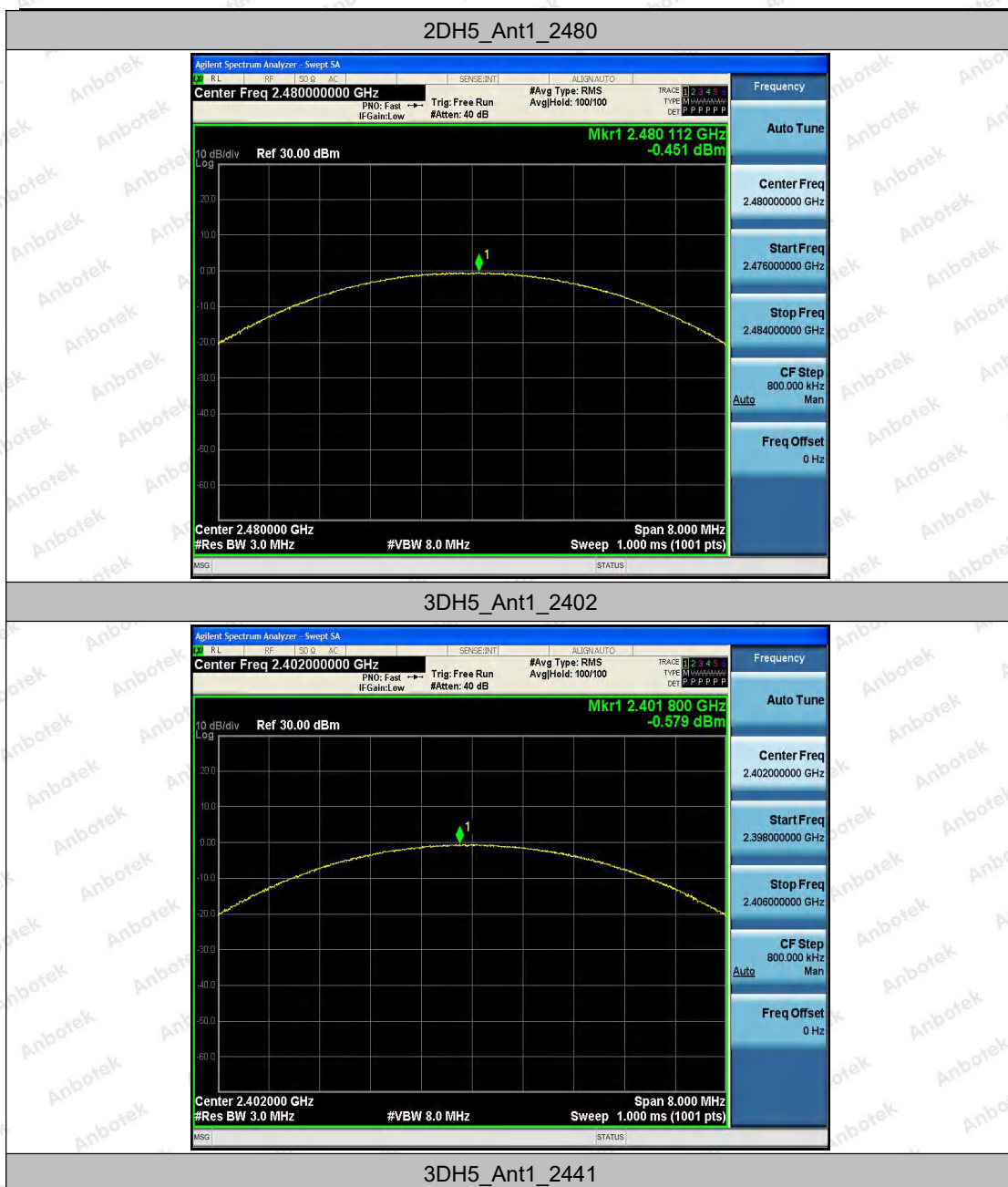
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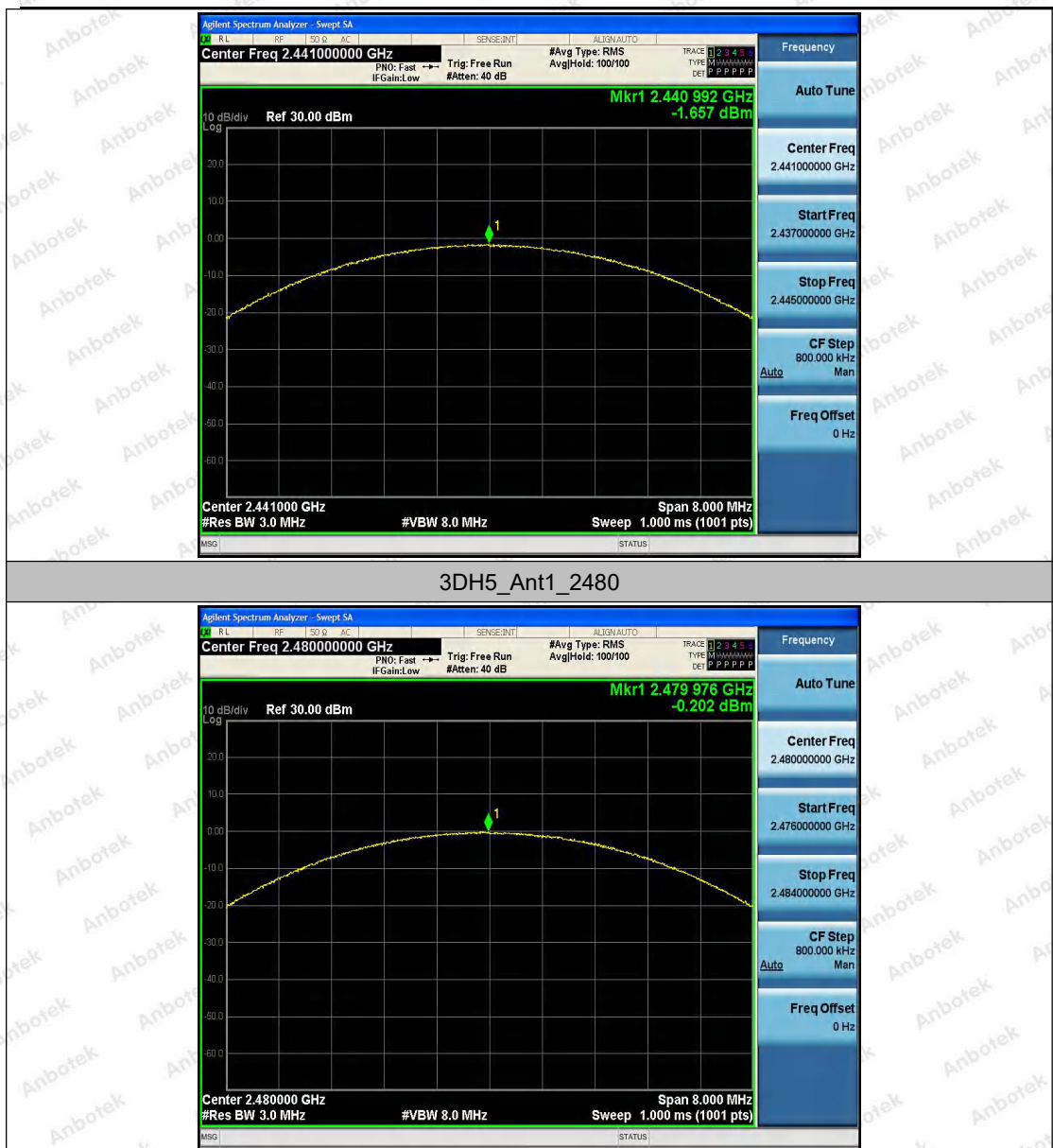


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.314	≥ 0.948	PASS
2DH5	Ant1	Hop	1.01	≥ 0.892	PASS
3DH5	Ant1	Hop	1.294	≥ 0.886	PASS

Test Graphs



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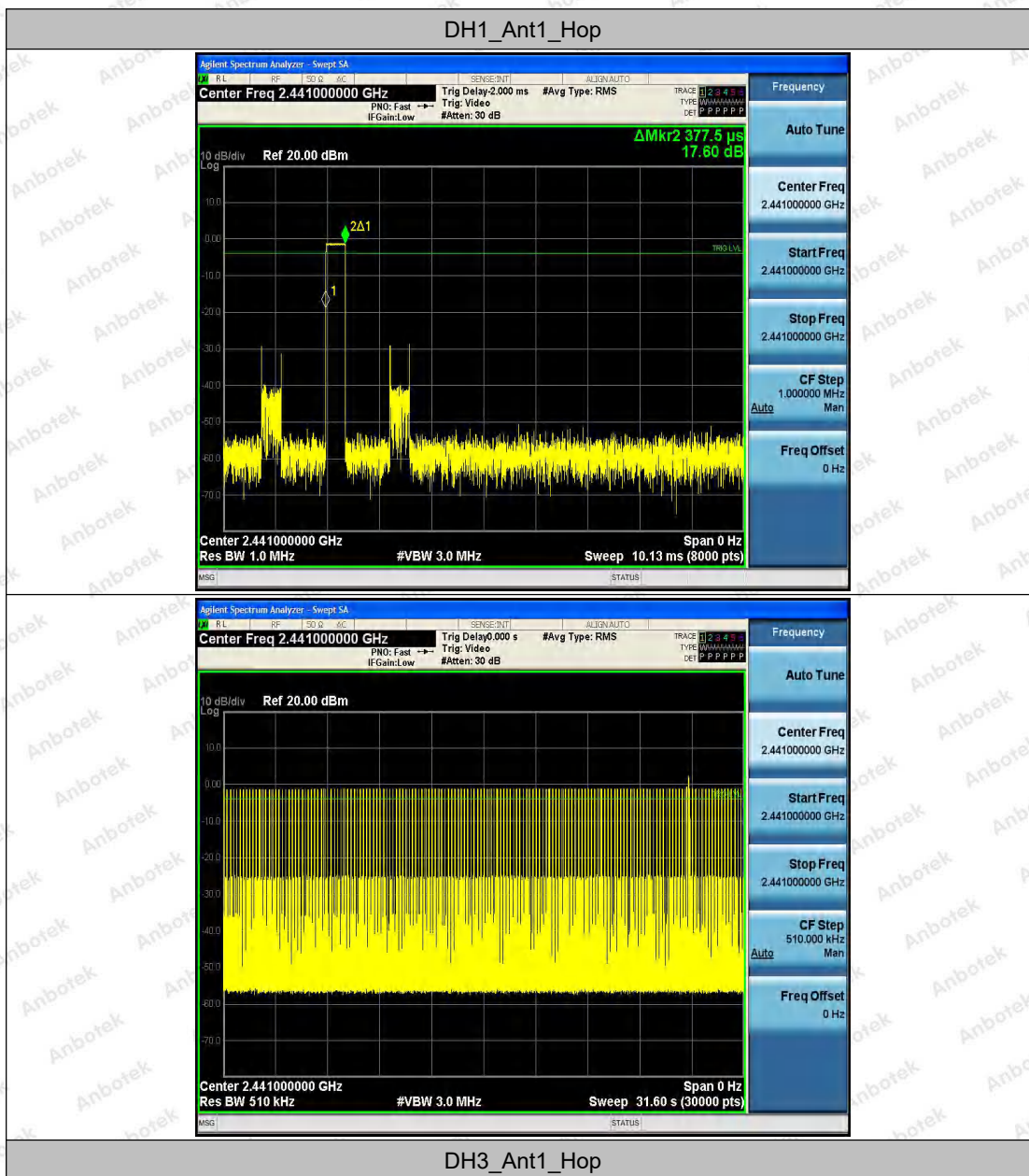
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Appendix E: Time of occupancy

Test Result

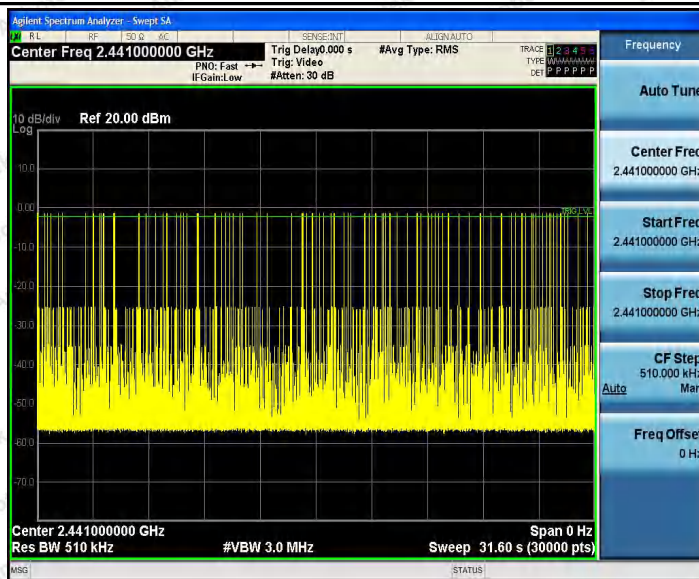
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.39	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.14	157	0.179	≤0.4	PASS
3DH5	Ant1	Hop	2.89	119	0.344	≤0.4	PASS

Test Graphs

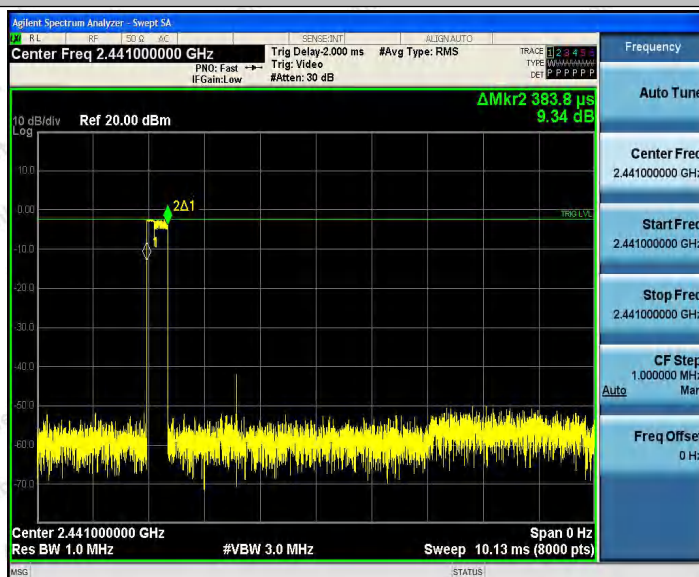




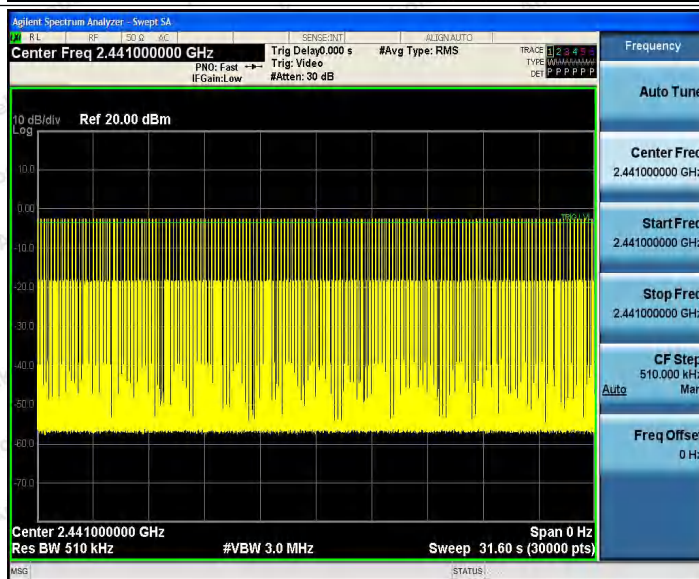
DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

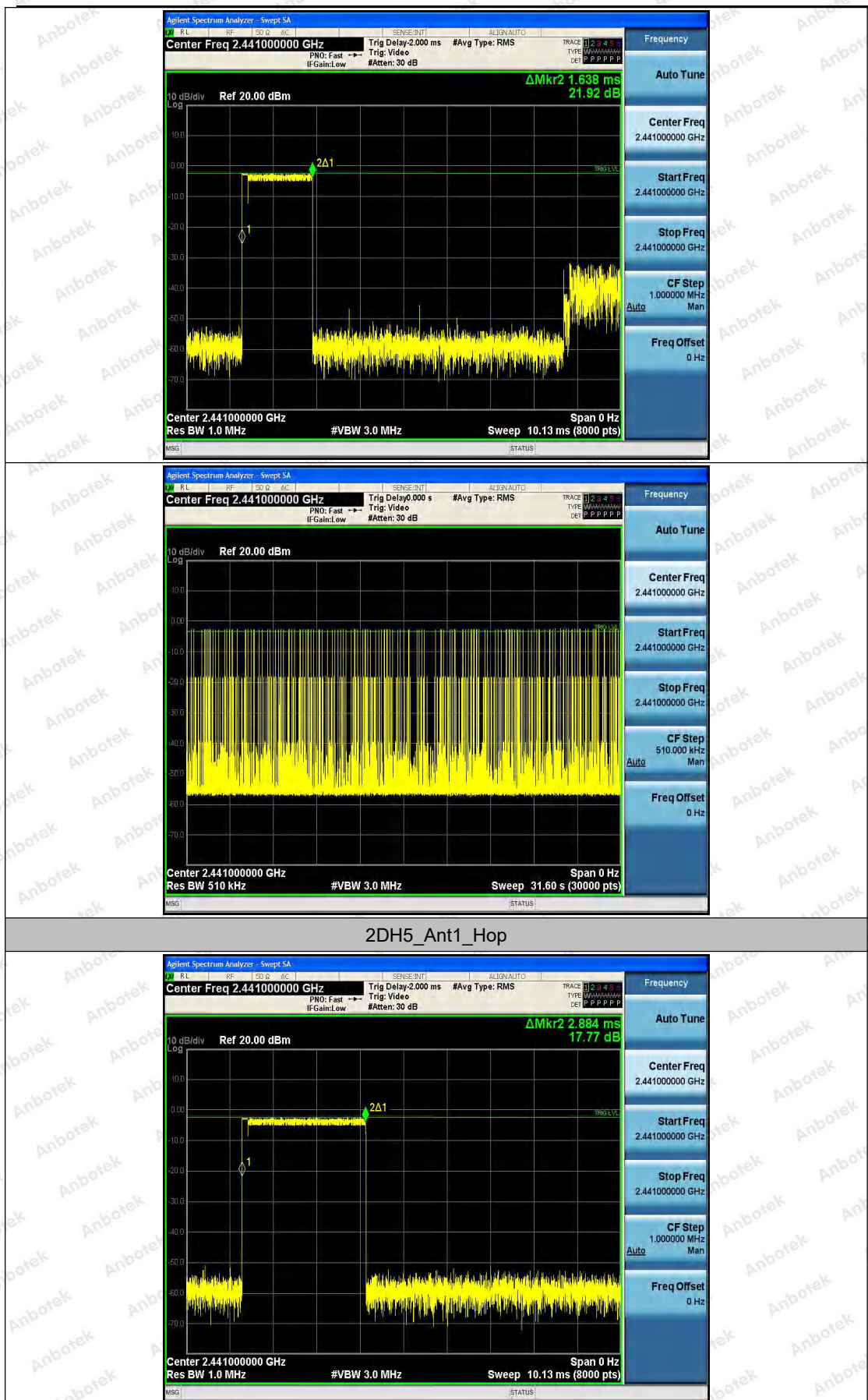


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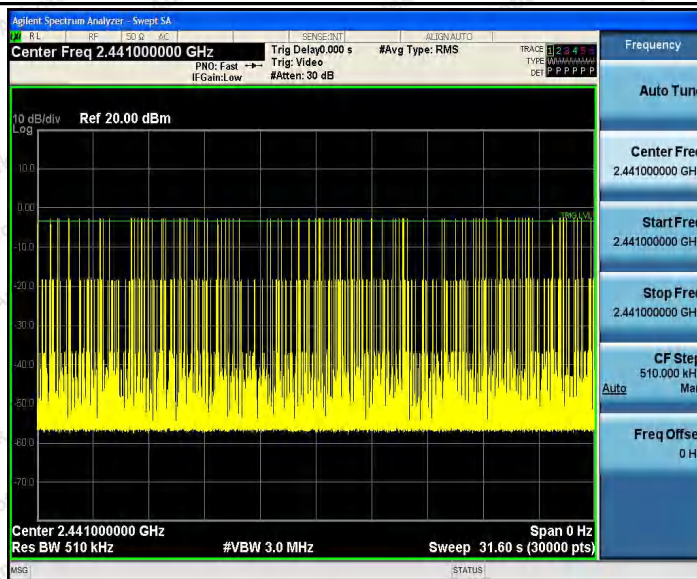


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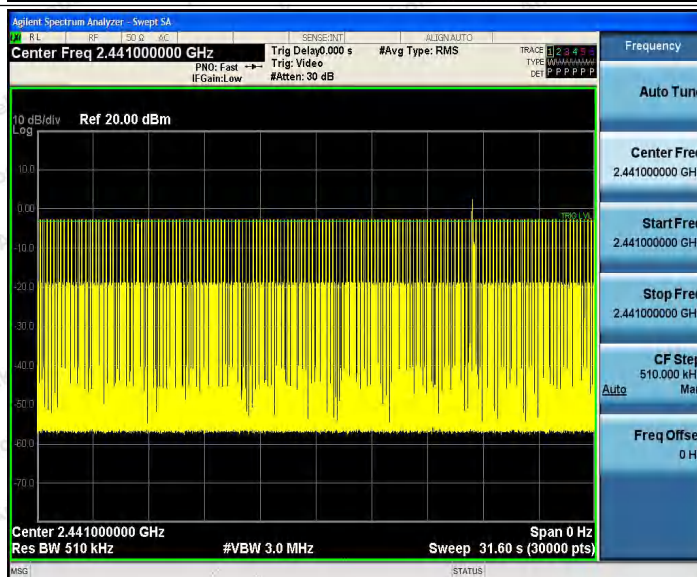
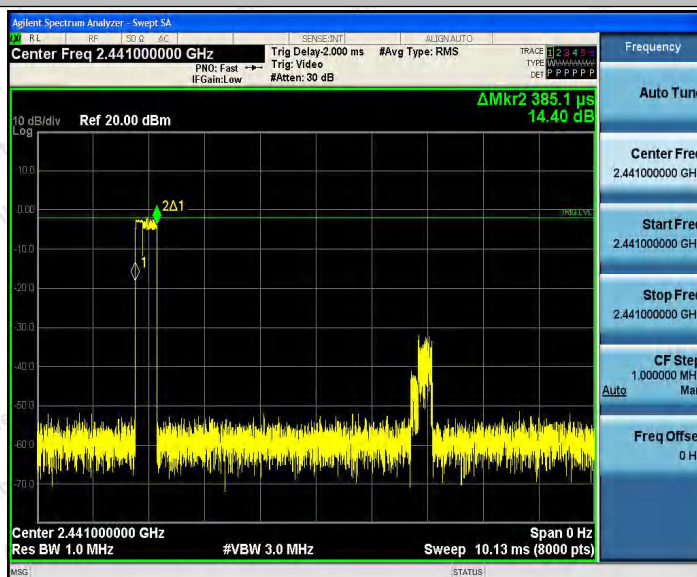
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3DH1_Ant1_Hop



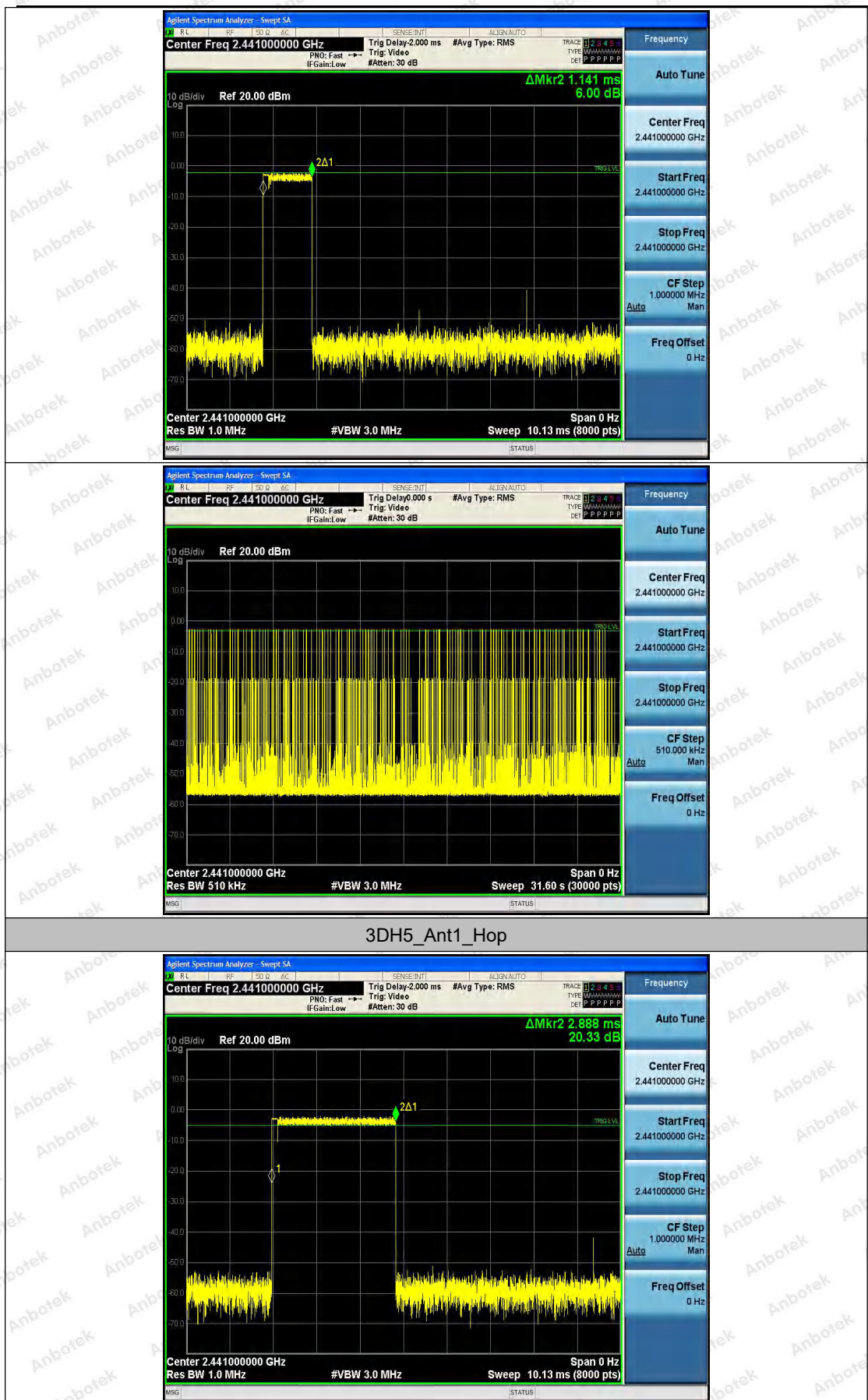
3DH3_Ant1_Hop

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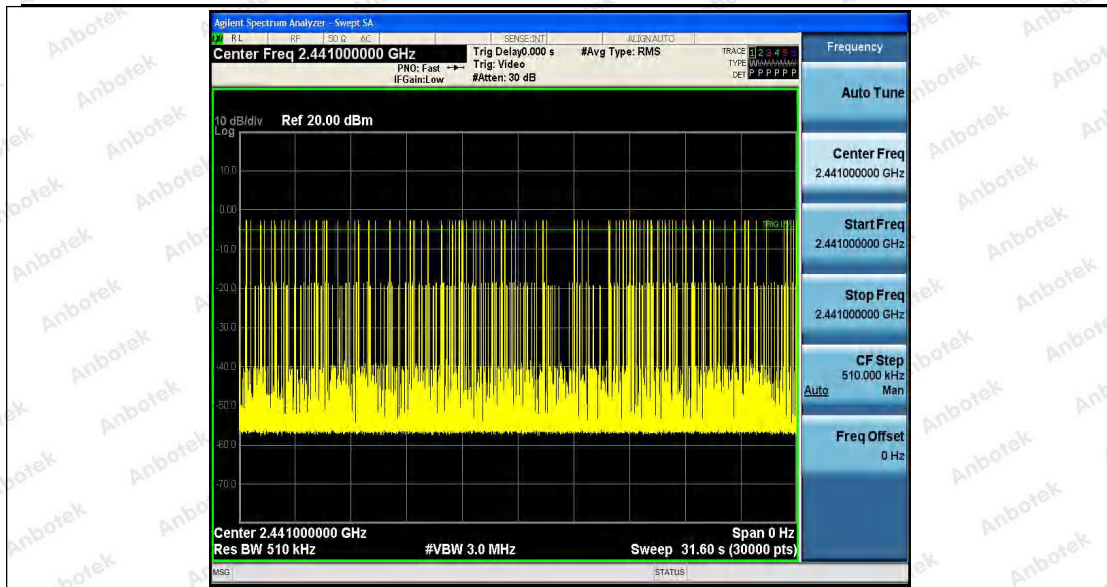
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3DH5_Ant1_Hop



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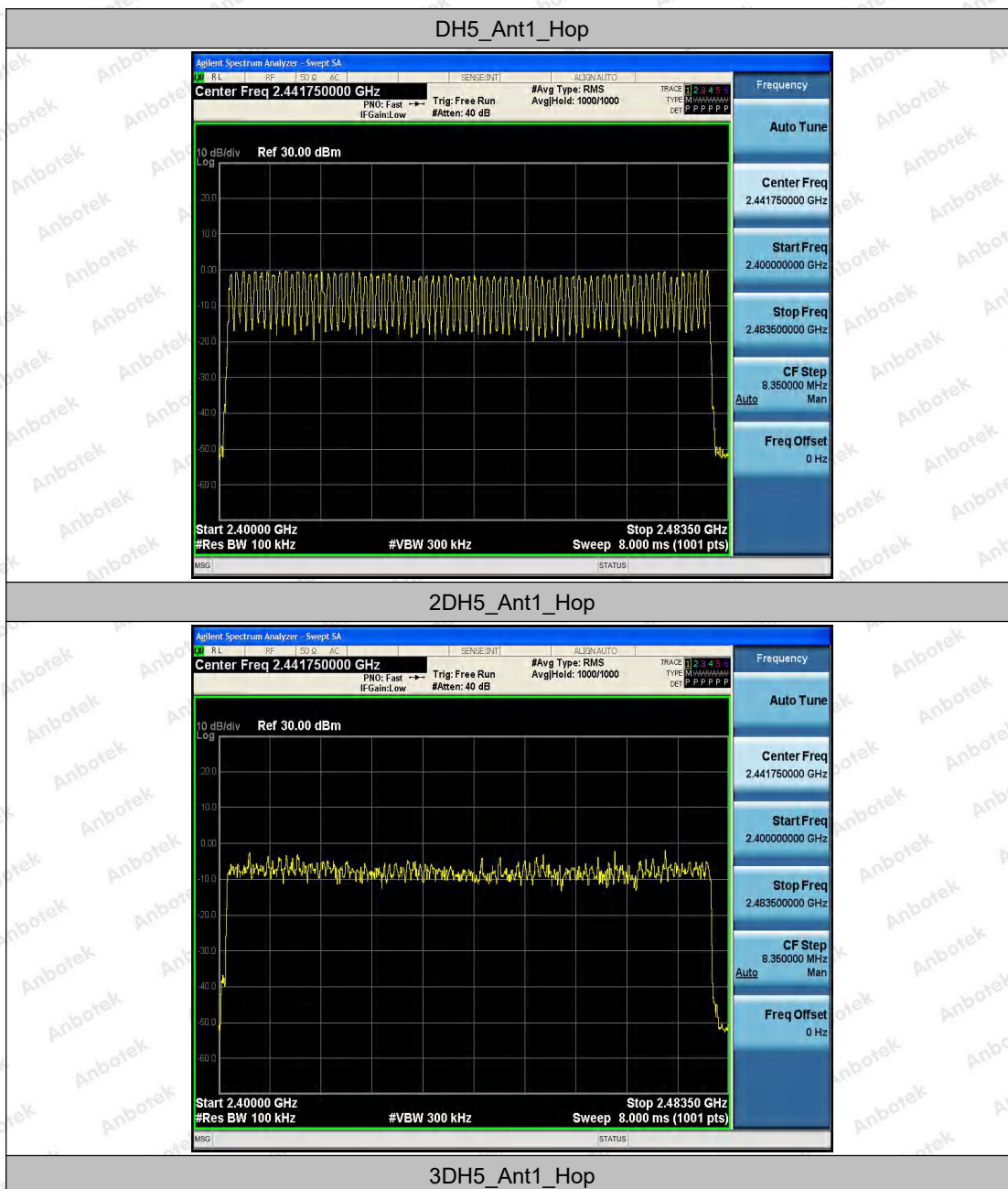
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Appendix F: Number of hopping channels

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

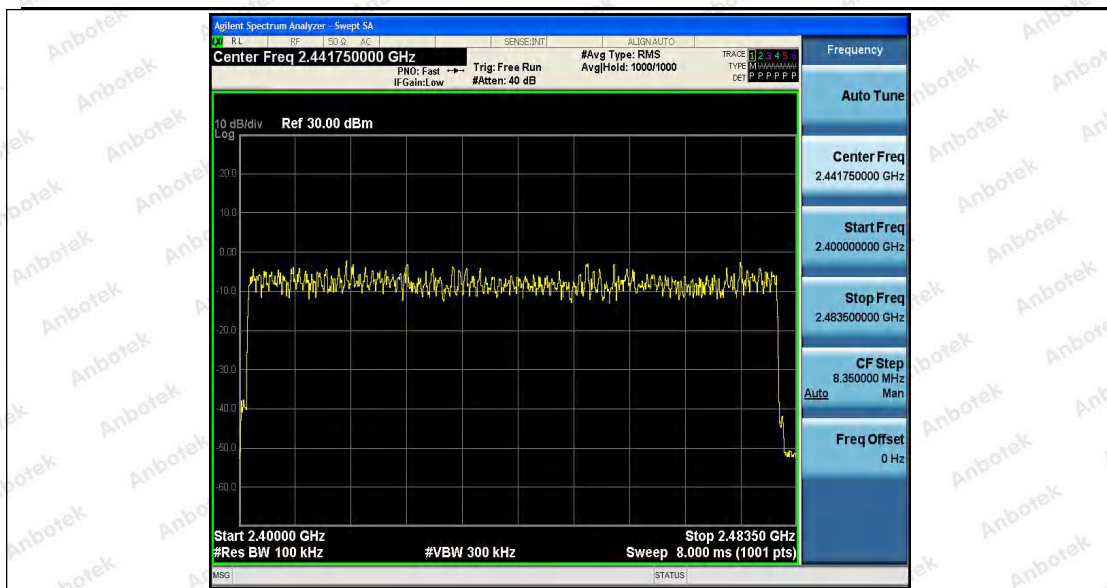


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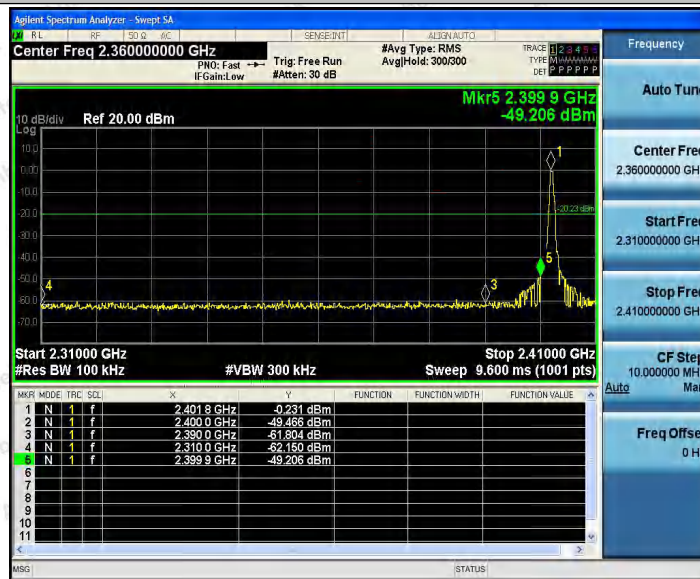
Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Low	2402	-0.23	-49.21	≤ -20.23	PASS
		High	2480	-0.05	-54.29	≤ -20.05	PASS
		Low	Hop	-0.55	-60.07	≤ -20.55	PASS
		High	Hop	-0.01	-62.61	≤ -20.01	PASS
2DH5	Ant1	Low	2402	-1.66	-48.55	≤ -21.66	PASS
		High	2480	-1.60	-53.13	≤ -21.6	PASS
		Low	Hop	-5.45	-59.2	≤ -25.45	PASS
		High	Hop	-4.05	-63.29	≤ -24.05	PASS
3DH5	Ant1	Low	2402	-3.80	-52.29	≤ -23.8	PASS
		High	2480	-1.34	-57.28	≤ -21.34	PASS
		Low	Hop	-3.21	-60.13	≤ -23.21	PASS
		High	Hop	-4.75	-62.23	≤ -24.75	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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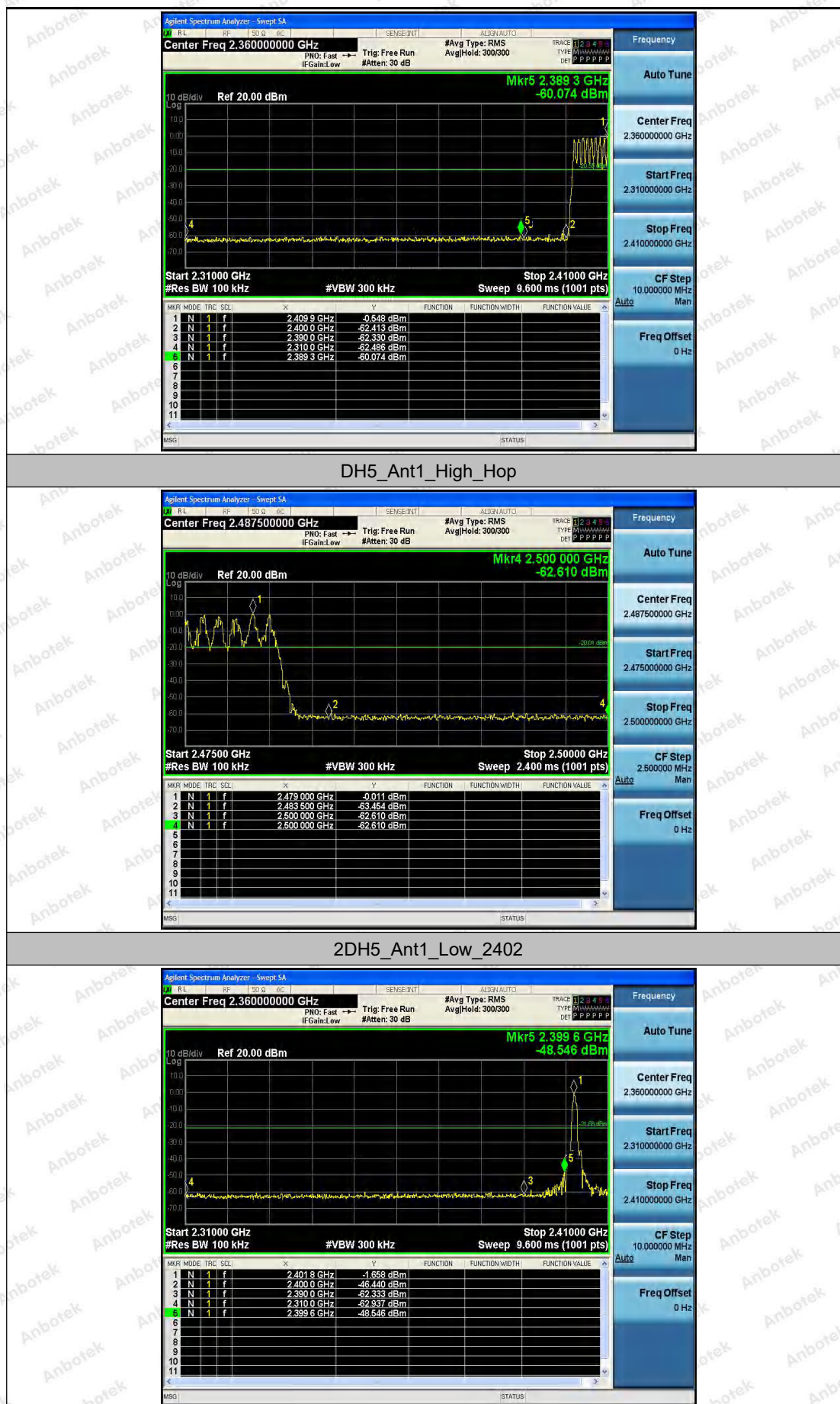
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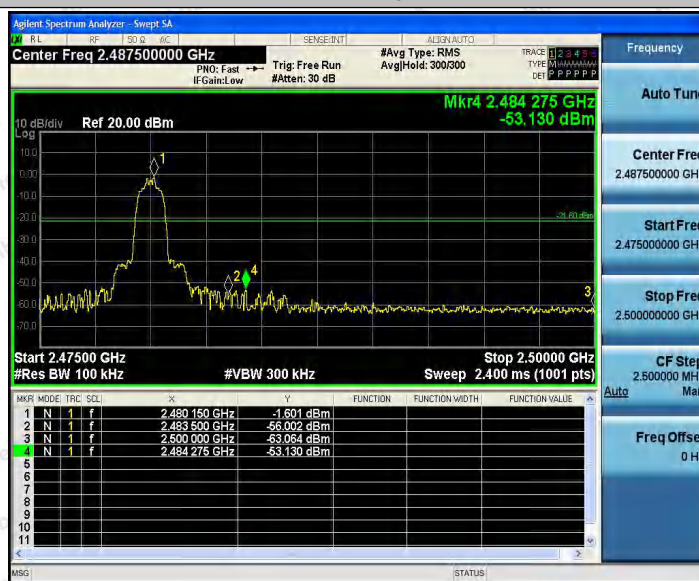
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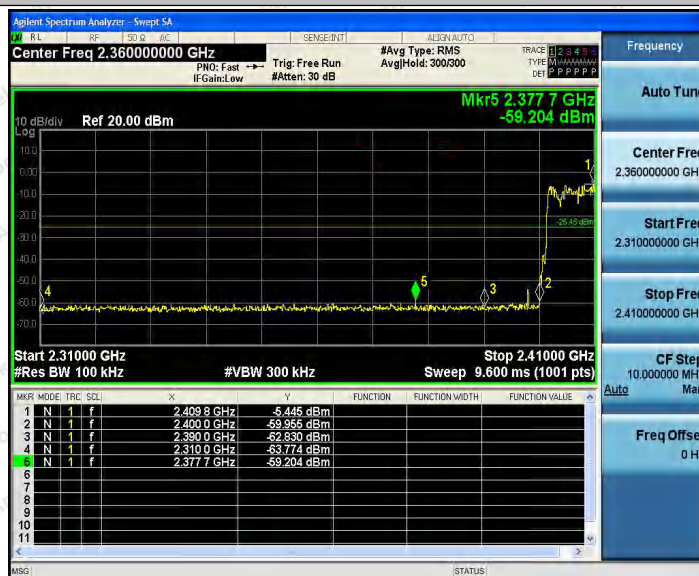
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



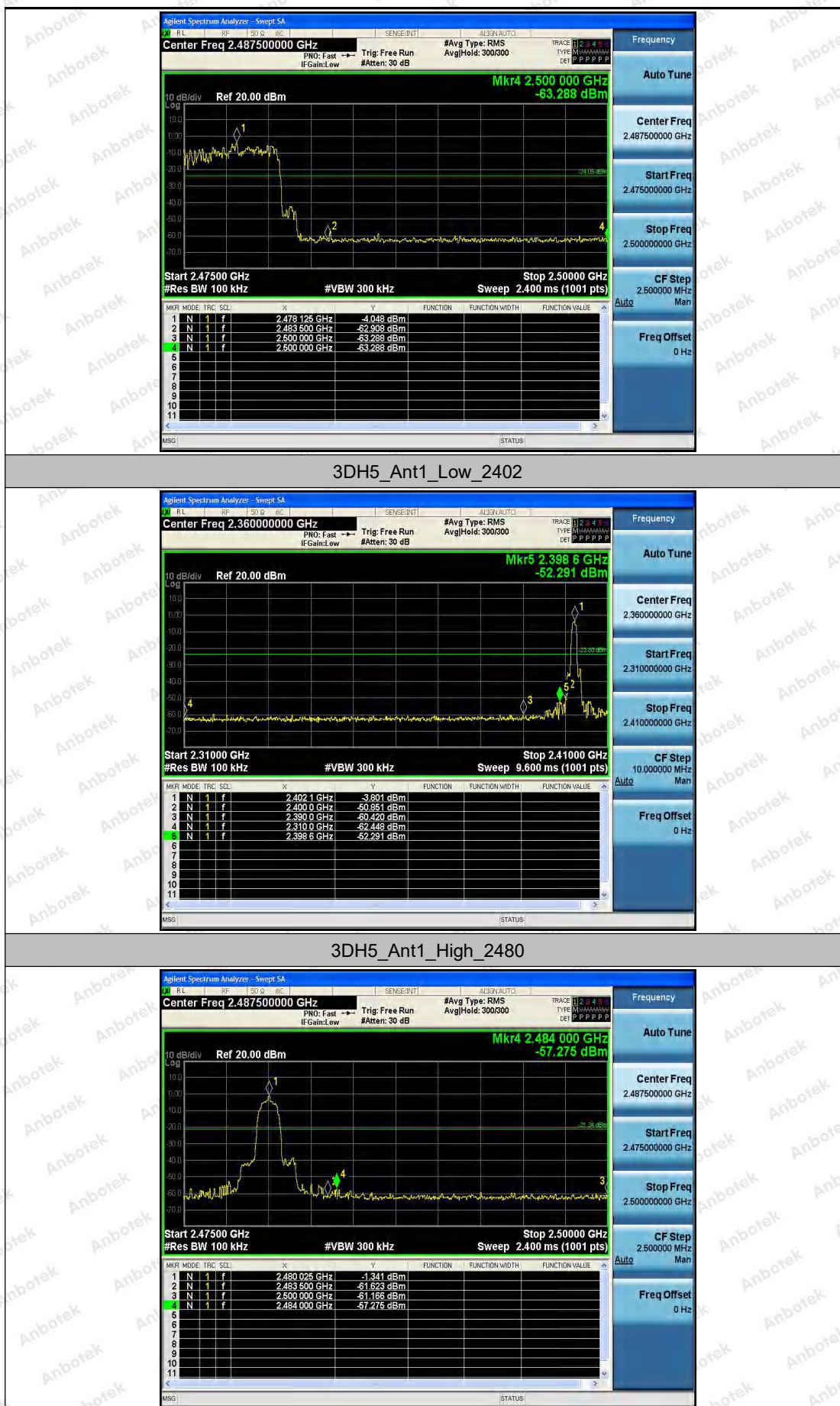
2DH5_Ant1_High_Hop

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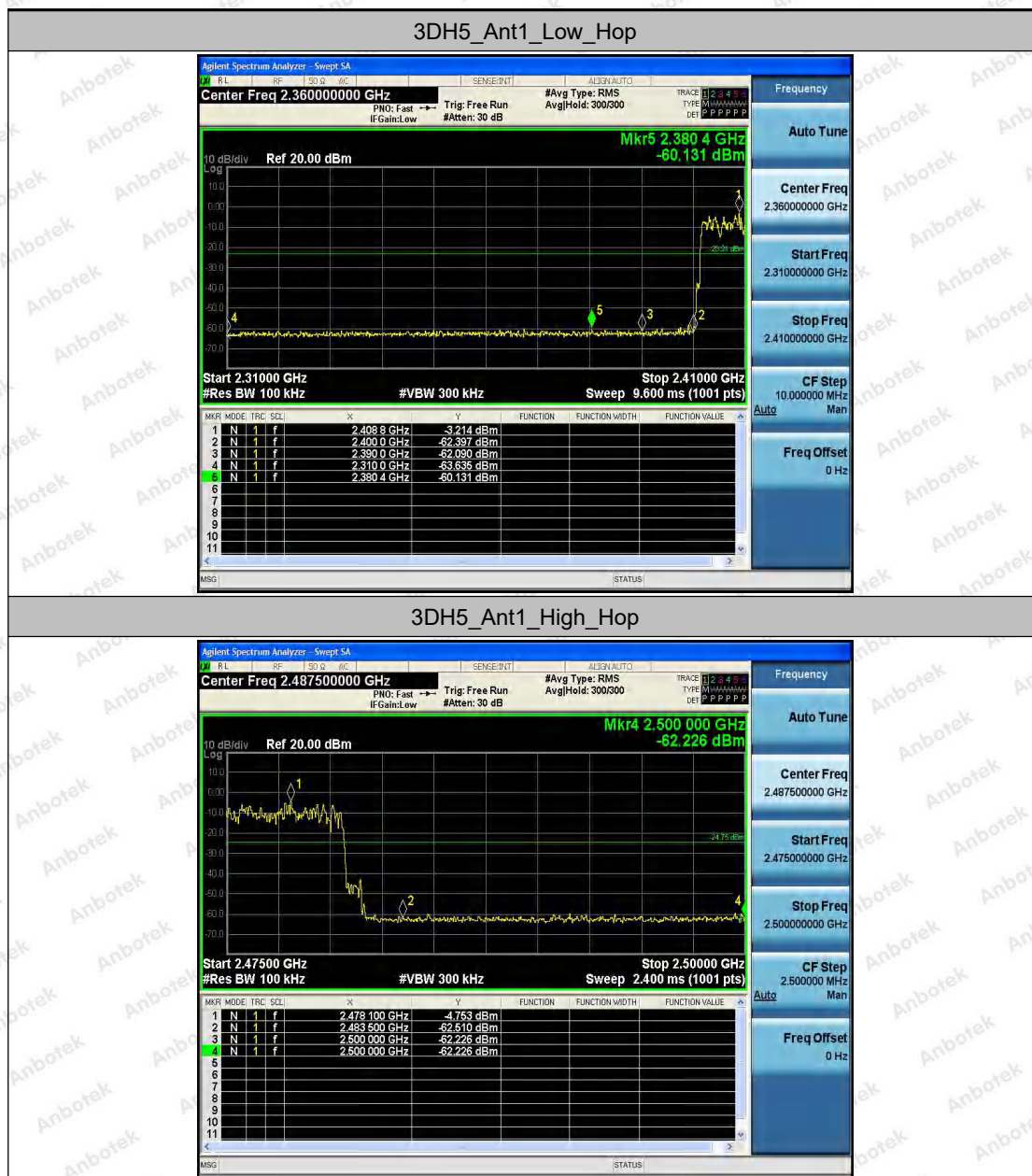


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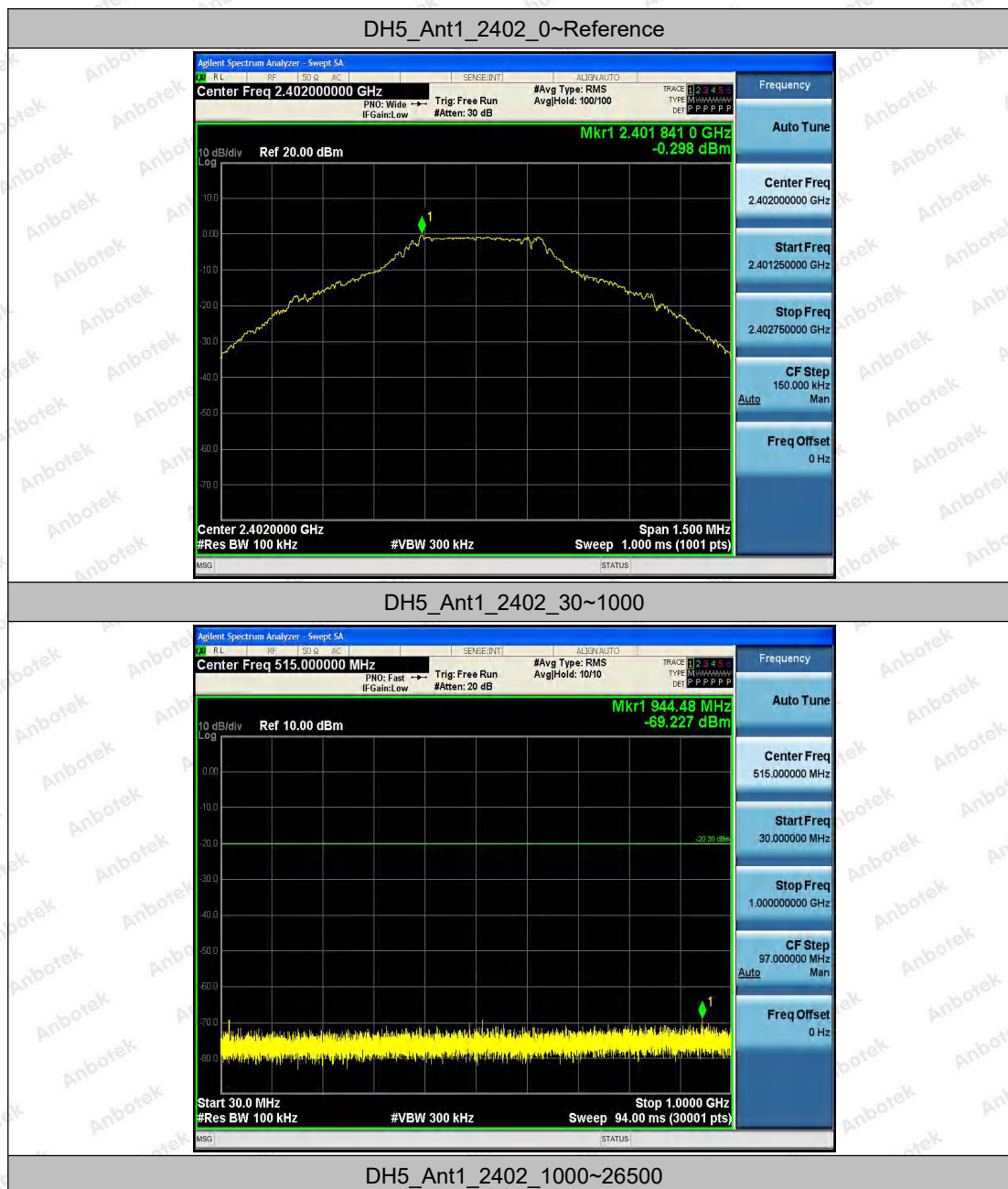
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-69.23	≤-20.3	PASS
			1000~26500	-0.30	-42.32	≤-20.3	PASS
		2441	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-69.88	≤-21.48	PASS
			1000~26500	-1.48	-43.44	≤-21.48	PASS
		2480	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-65.31	≤-19.92	PASS
			1000~26500	0.08	-51.53	≤-19.92	PASS
2DH5	Ant1	2402	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-69.79	≤-22.23	PASS
			1000~26500	-2.23	-49.02	≤-22.23	PASS
		2441	Reference	-3.58	-3.58	---	PASS
			30~1000	-3.58	-60.82	≤-23.58	PASS
			1000~26500	-3.58	-49.72	≤-23.58	PASS
		2480	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-56.74	≤-21.86	PASS
			1000~26500	-1.86	-51.78	≤-21.86	PASS
3DH5	Ant1	2402	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-70.58	≤-22.19	PASS
			1000~26500	-2.19	-47.88	≤-22.19	PASS
		2441	Reference	-2.70	-2.70	---	PASS
			30~1000	-2.70	-70.36	≤-22.7	PASS
			1000~26500	-2.70	-48.96	≤-22.7	PASS
		2480	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-51.15	≤-21.4	PASS
			1000~26500	-1.40	-52.38	≤-21.4	PASS

Test Graphs

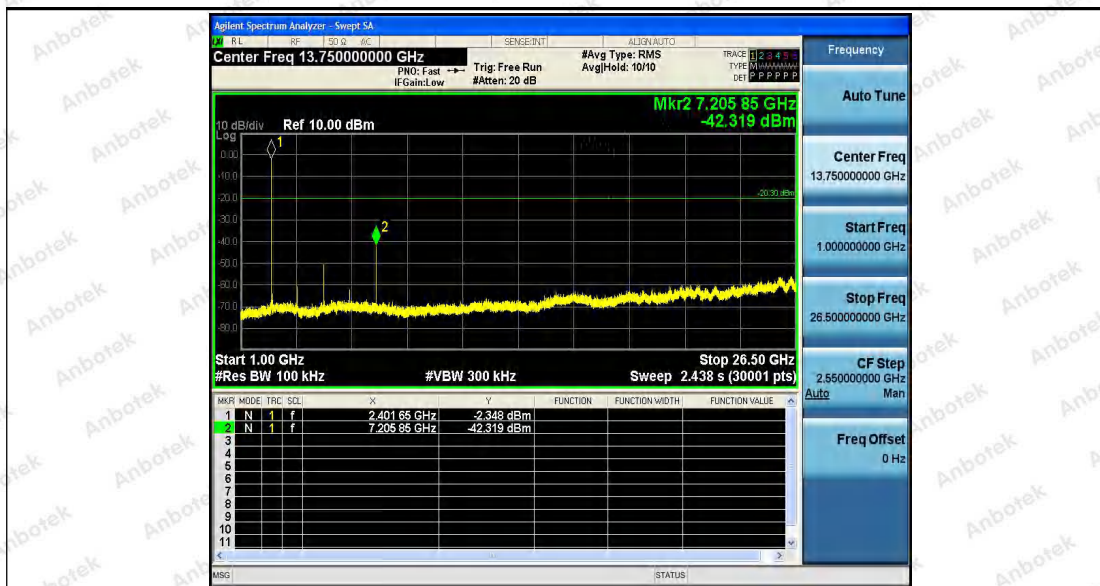


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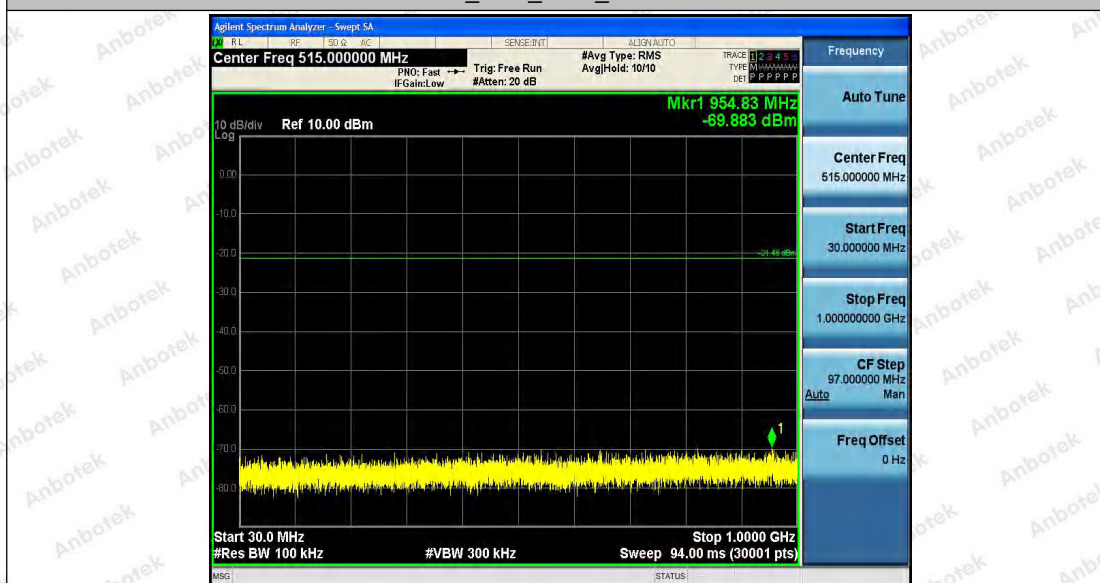
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



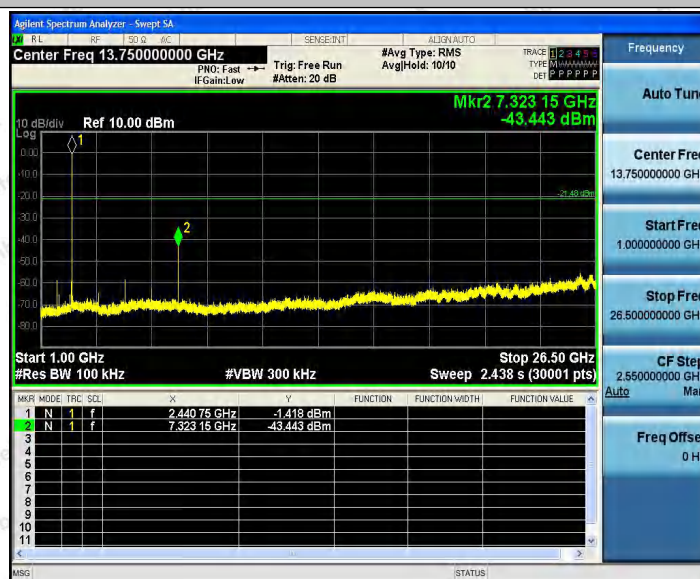
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

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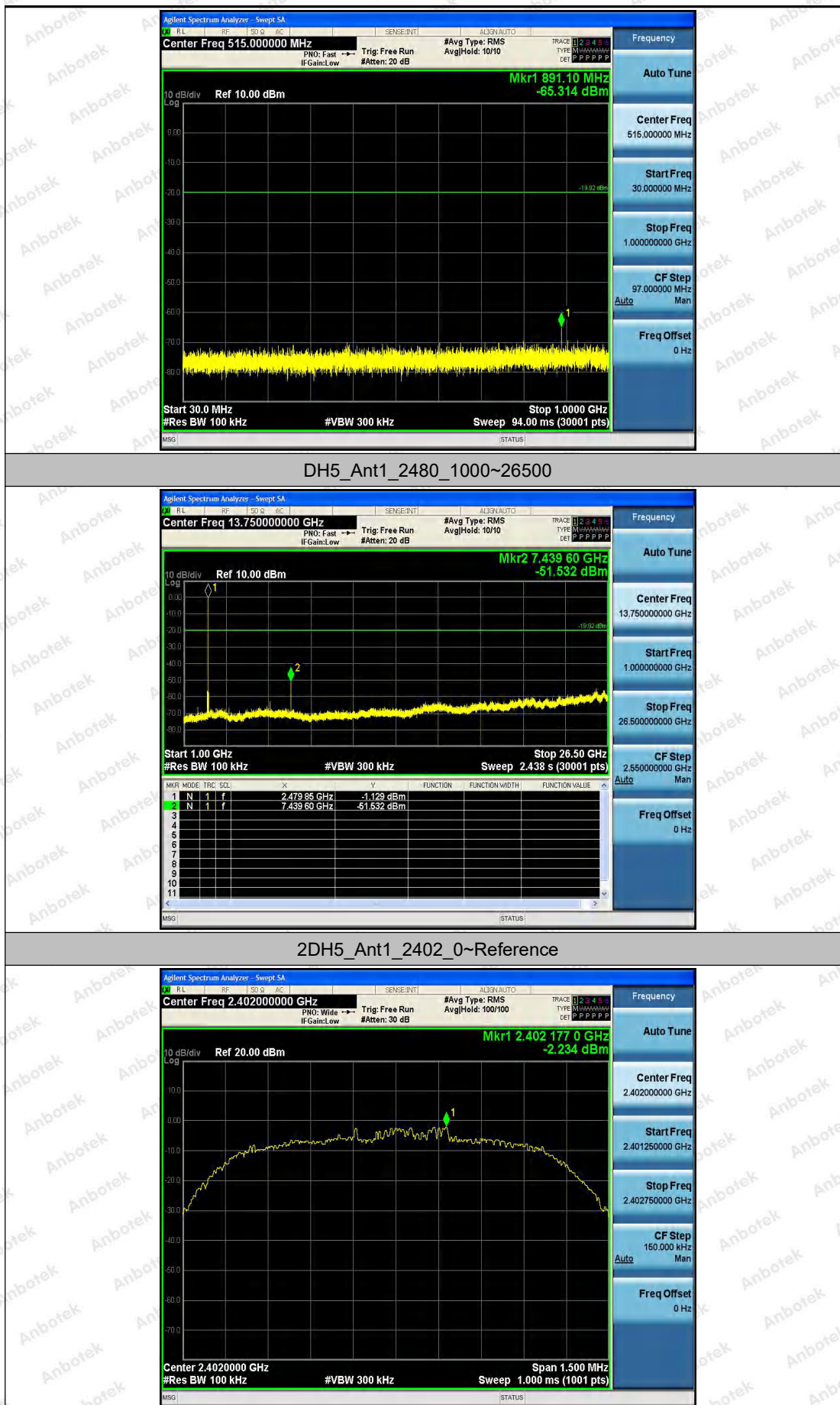
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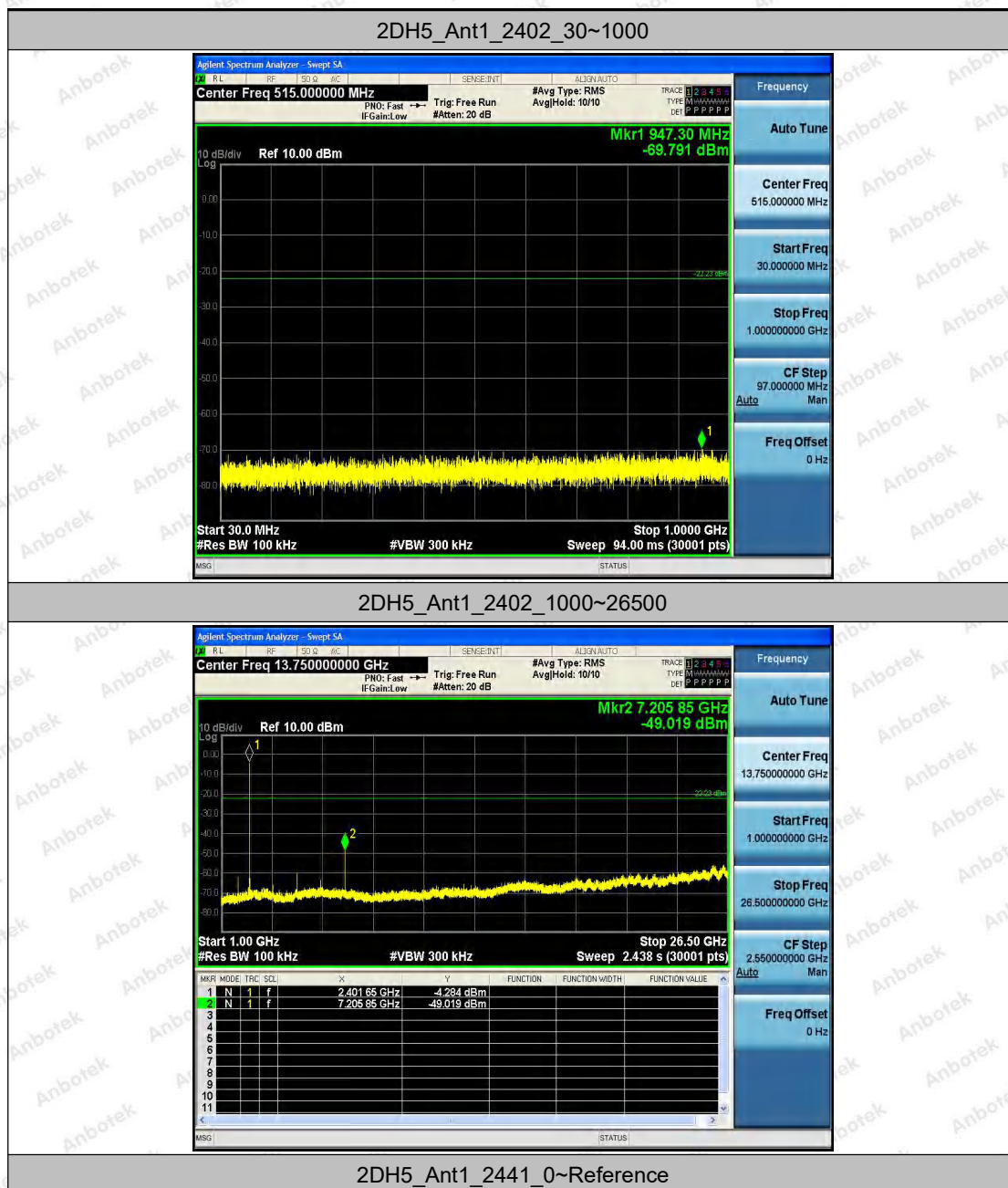


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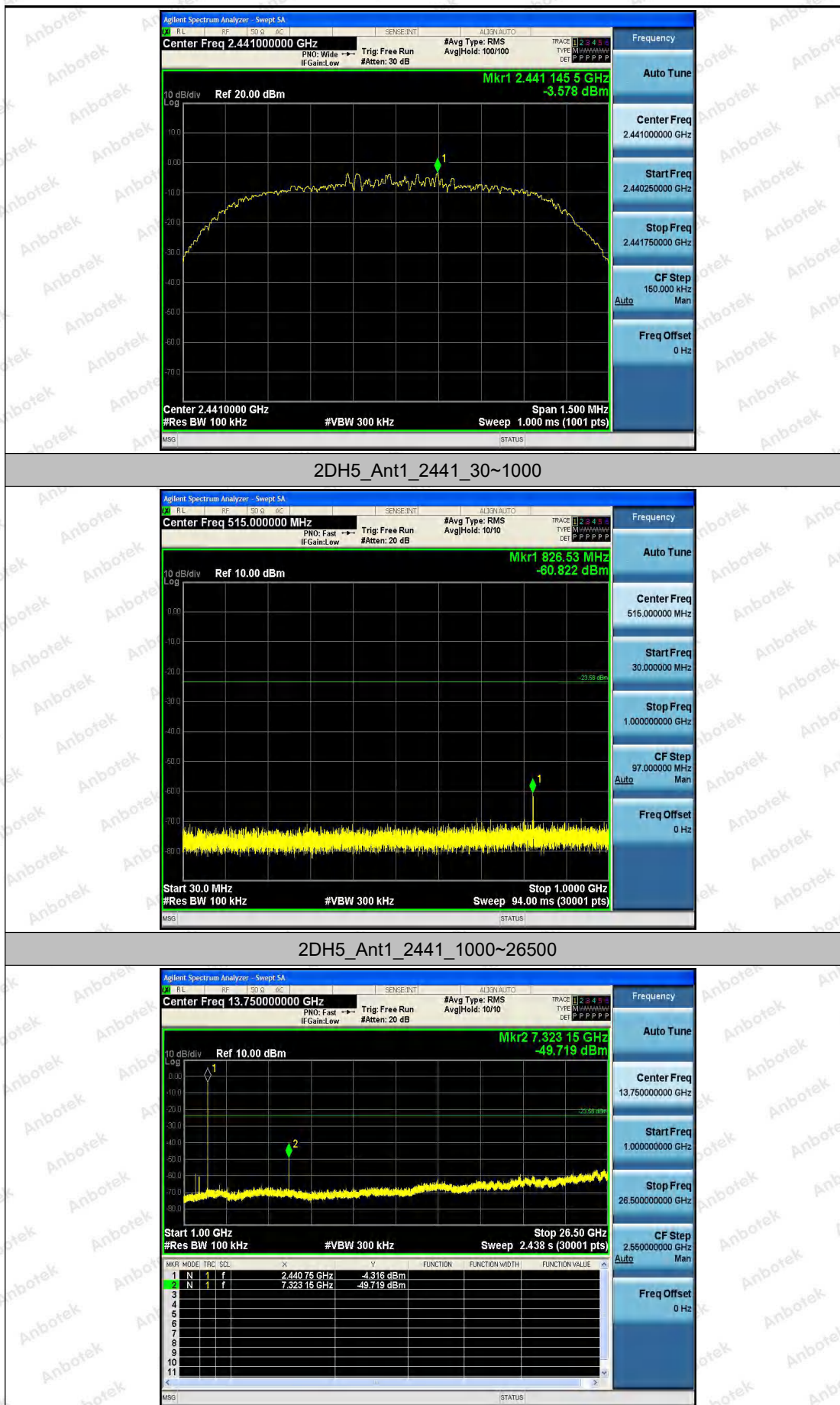


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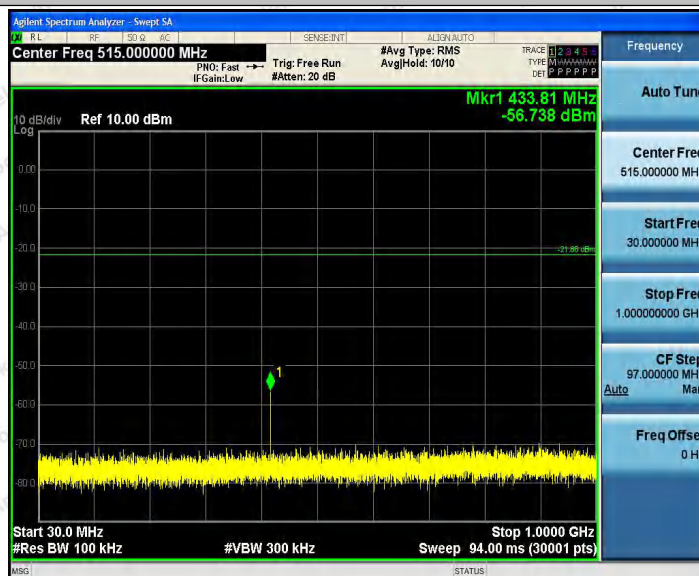
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



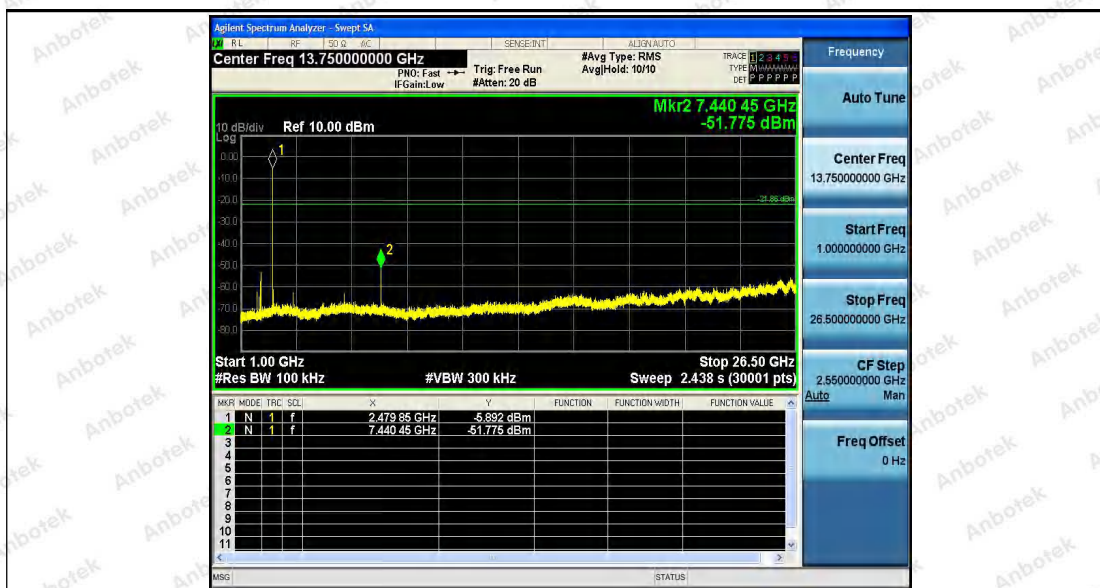
2DH5_Ant1_2480_1000~26500

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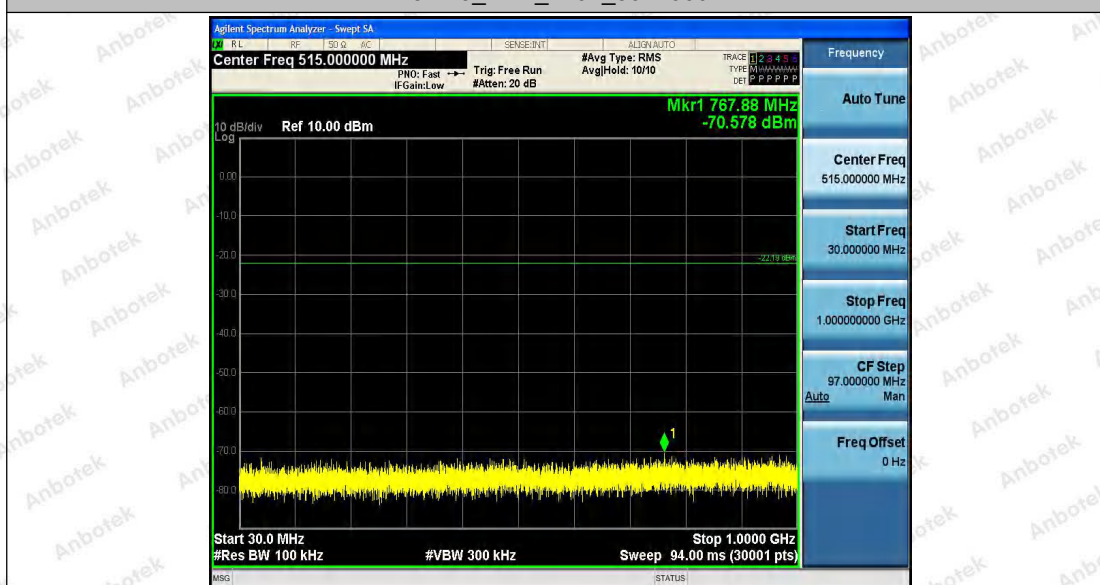
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



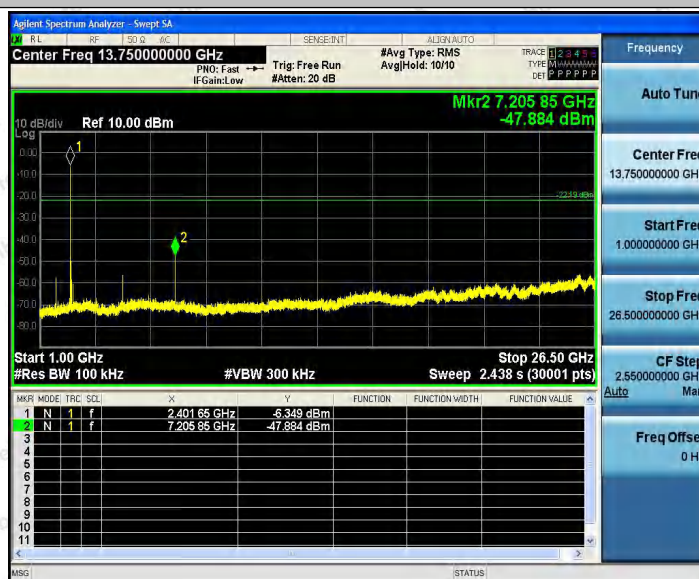
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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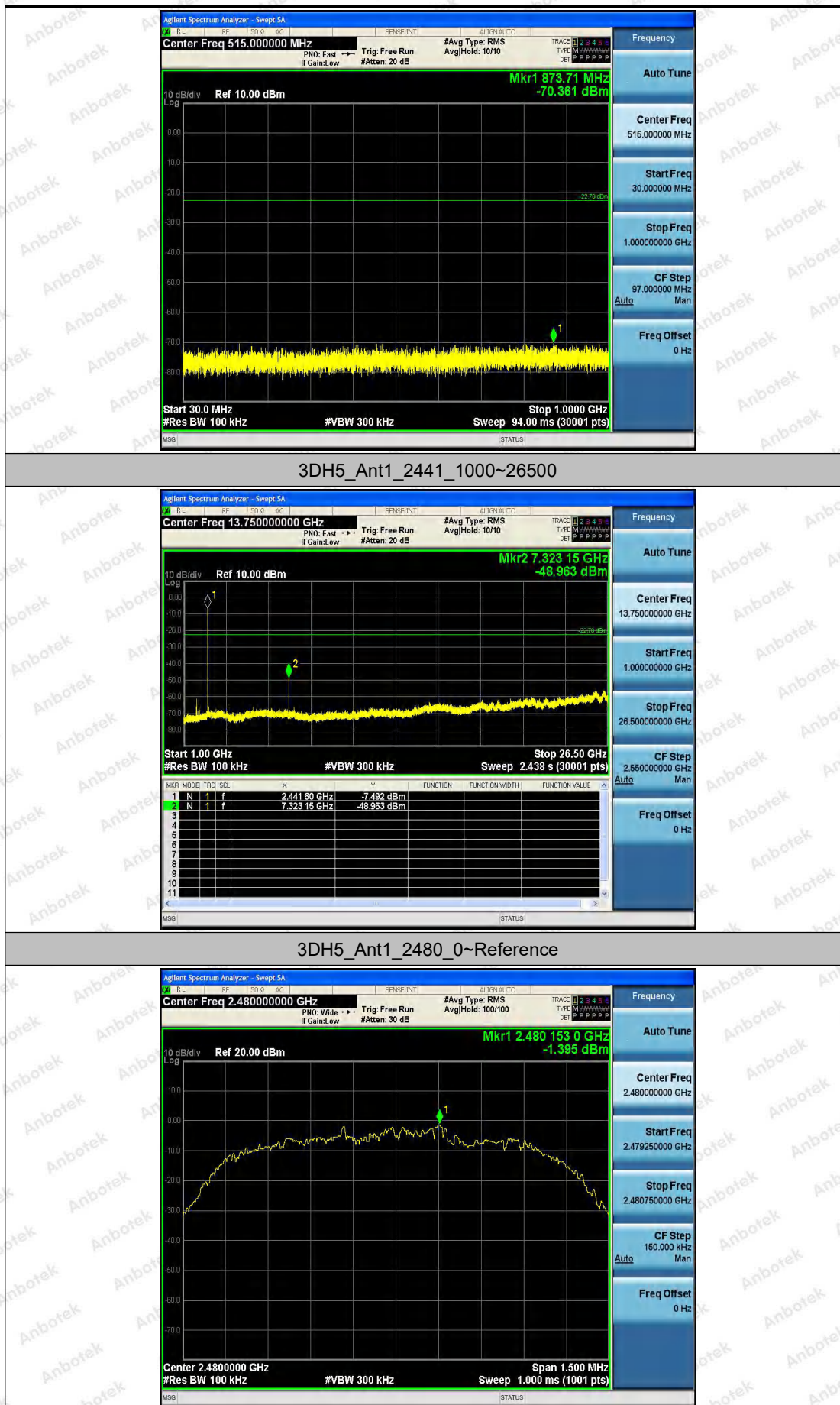
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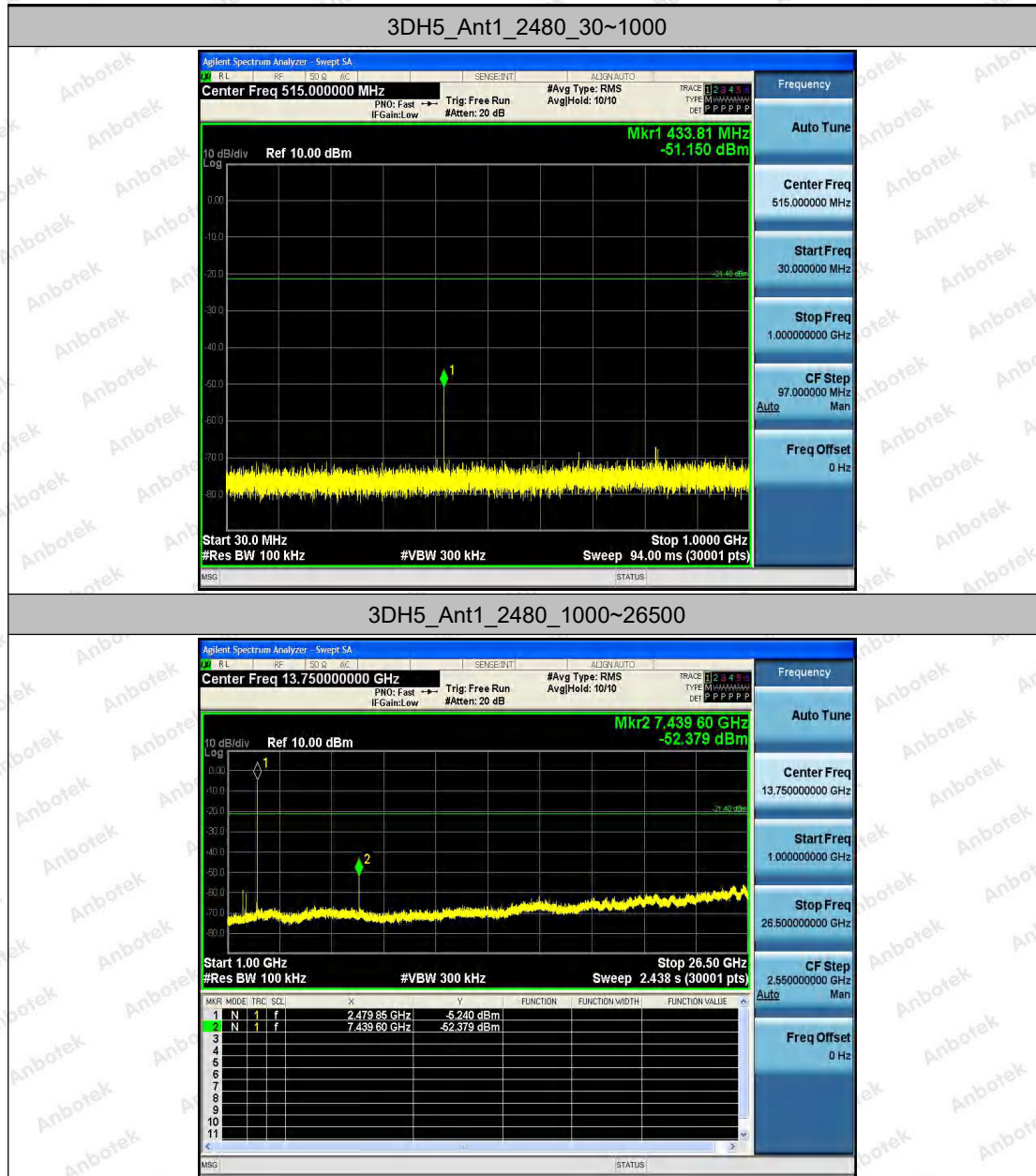


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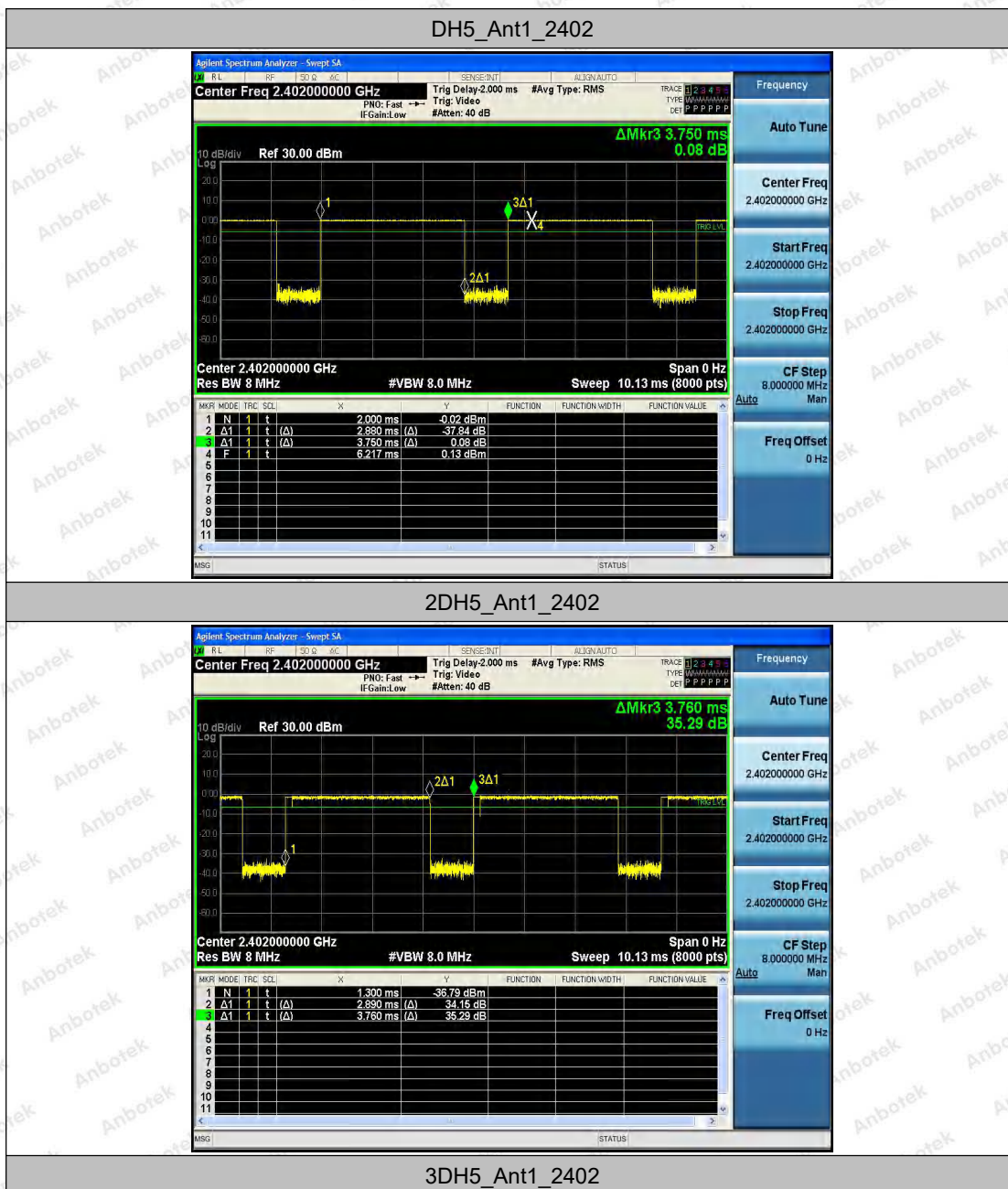
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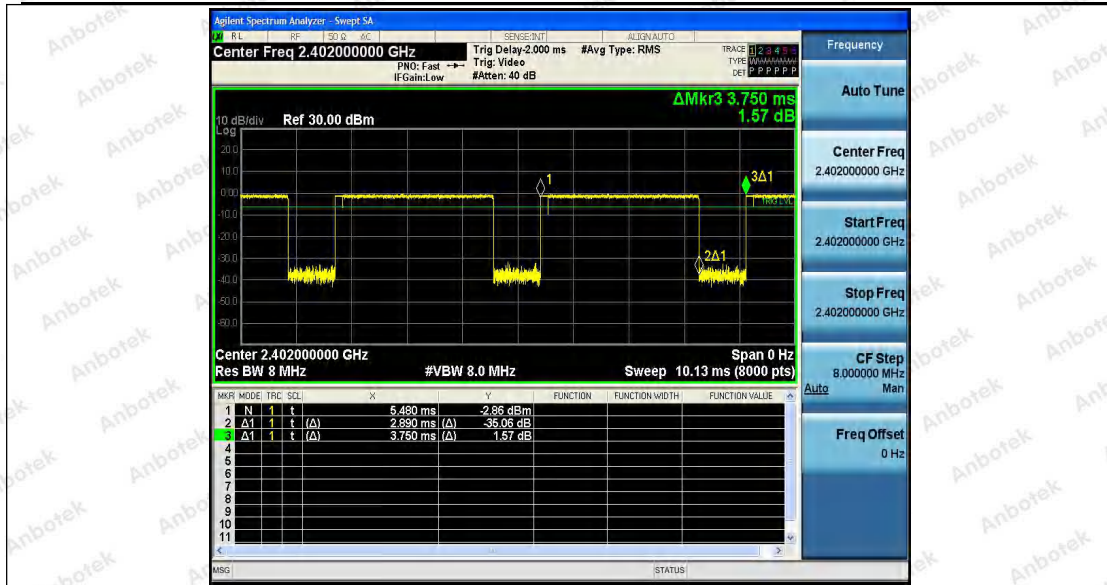
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.76	0.7686	76.86	1.14	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---