

Appendix Test Data

Report No.:	18220WC10287901	Test Sample No.:	1-2-2
Start Test Date:	2022.1.3	Finish Test Date:	2022.1.14
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

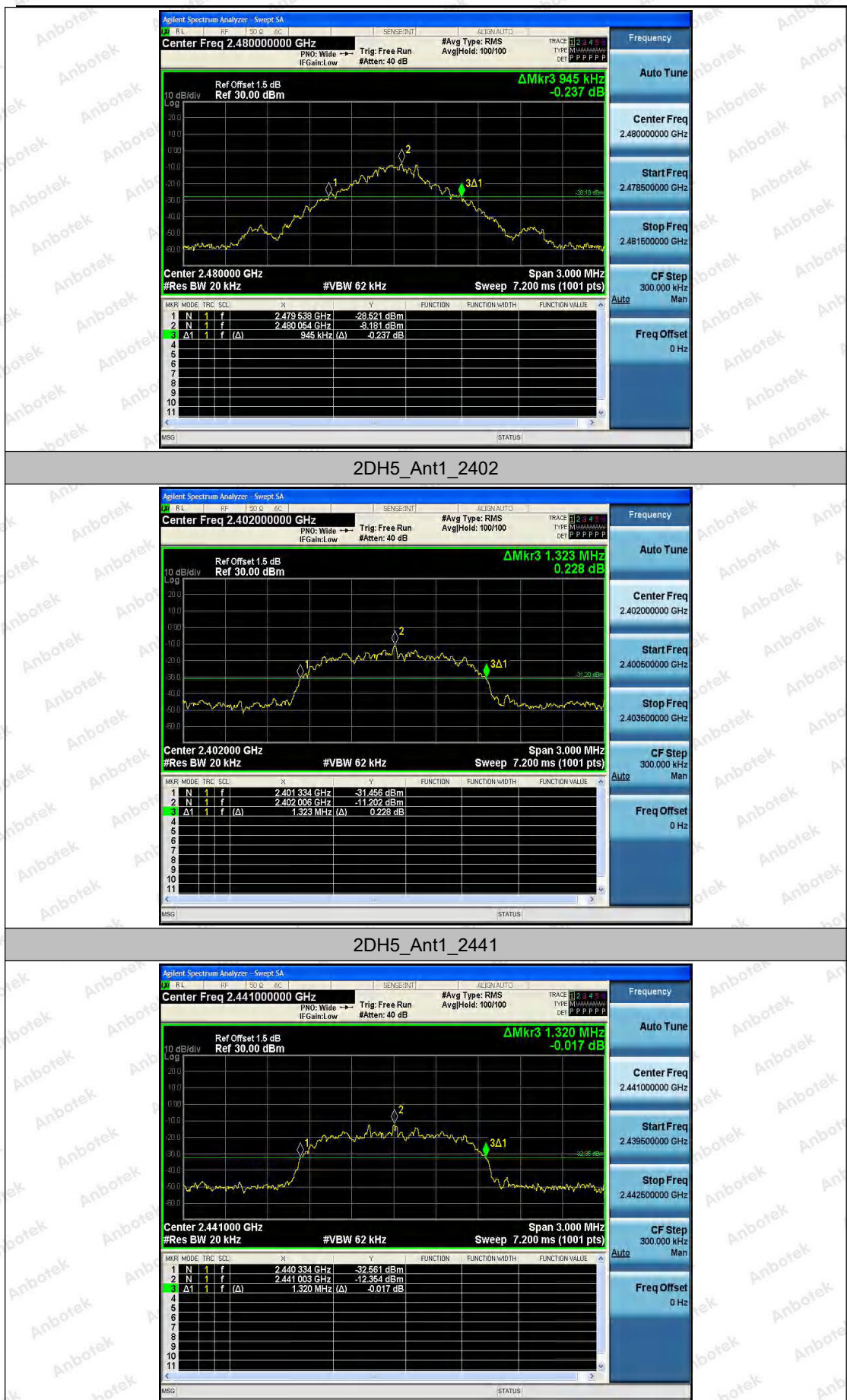
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.535	2402.480	---	PASS
		2441	0.945	2440.535	2441.480	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.334	2402.657	---	PASS
		2441	1.320	2440.334	2441.654	---	PASS
		2480	1.320	2479.334	2480.654	---	PASS
3DH5	Ant1	2402	1.332	2401.328	2402.660	---	PASS
		2441	1.275	2440.346	2441.621	---	PASS
		2480	1.314	2479.340	2480.654	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



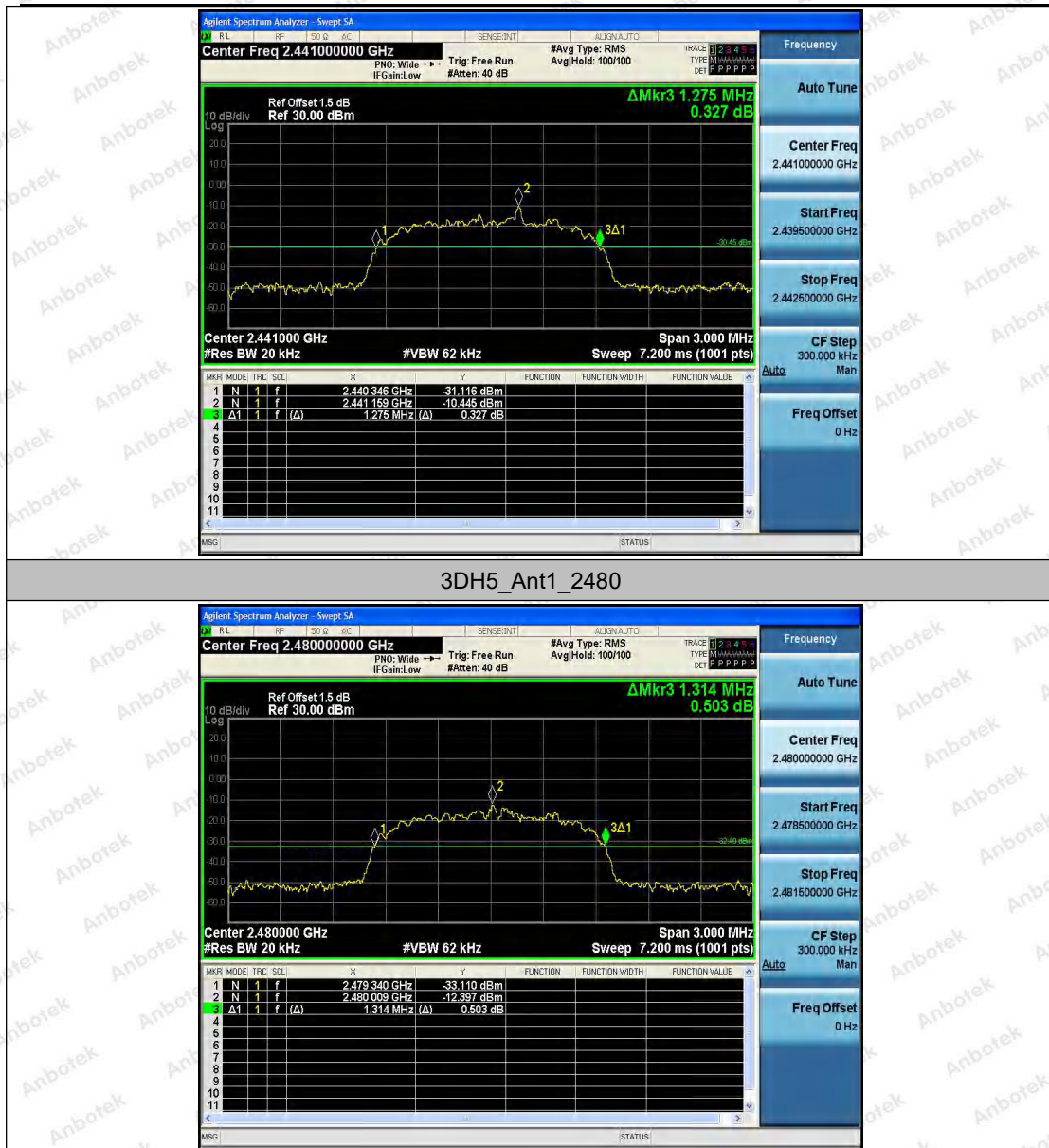
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88797	2401.55 1	2402.439	---	PASS
		2441	0.87944	2440.55 7	2441.436	---	PASS
		2480	0.89698	2479.54 9	2480.446	---	PASS
2DH5	Ant1	2402	1.1955	2401.39 9	2402.594	---	PASS
		2441	1.1917	2440.39 9	2441.591	---	PASS
		2480	1.1863	2479.40 2	2480.588	---	PASS
3DH5	Ant1	2402	1.2094	2401.38 3	2402.593	---	PASS
		2441	1.2049	2440.38 5	2441.590	---	PASS
		2480	1.1913	2479.39 7	2480.588	---	PASS

Test Graphs



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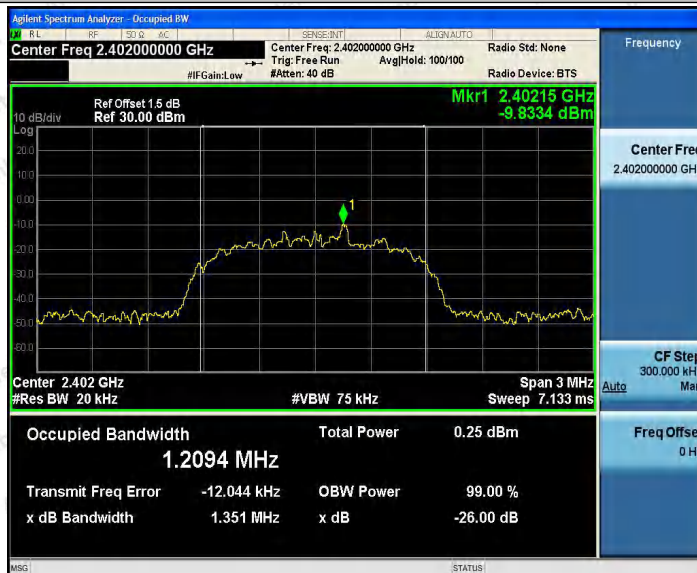
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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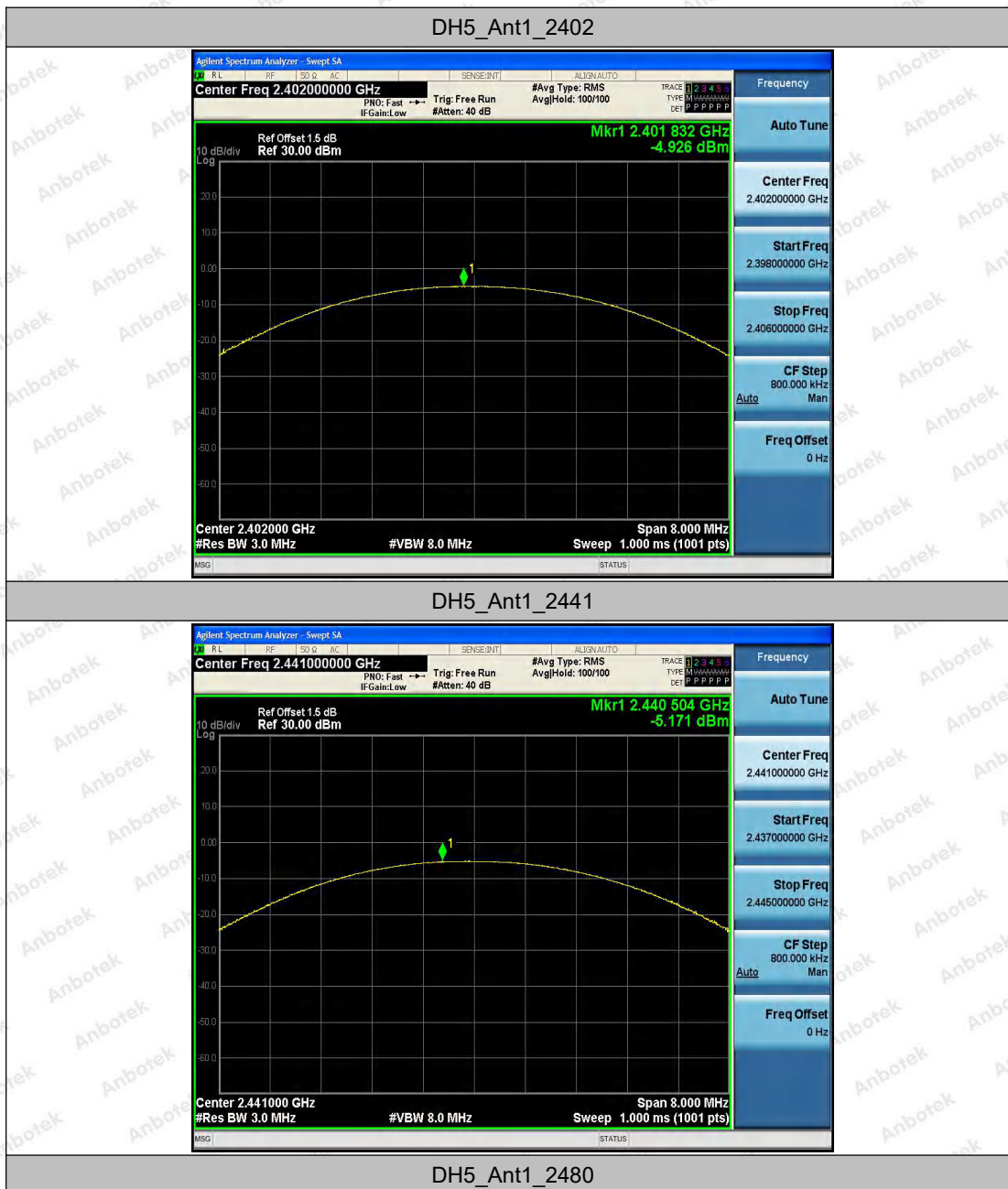
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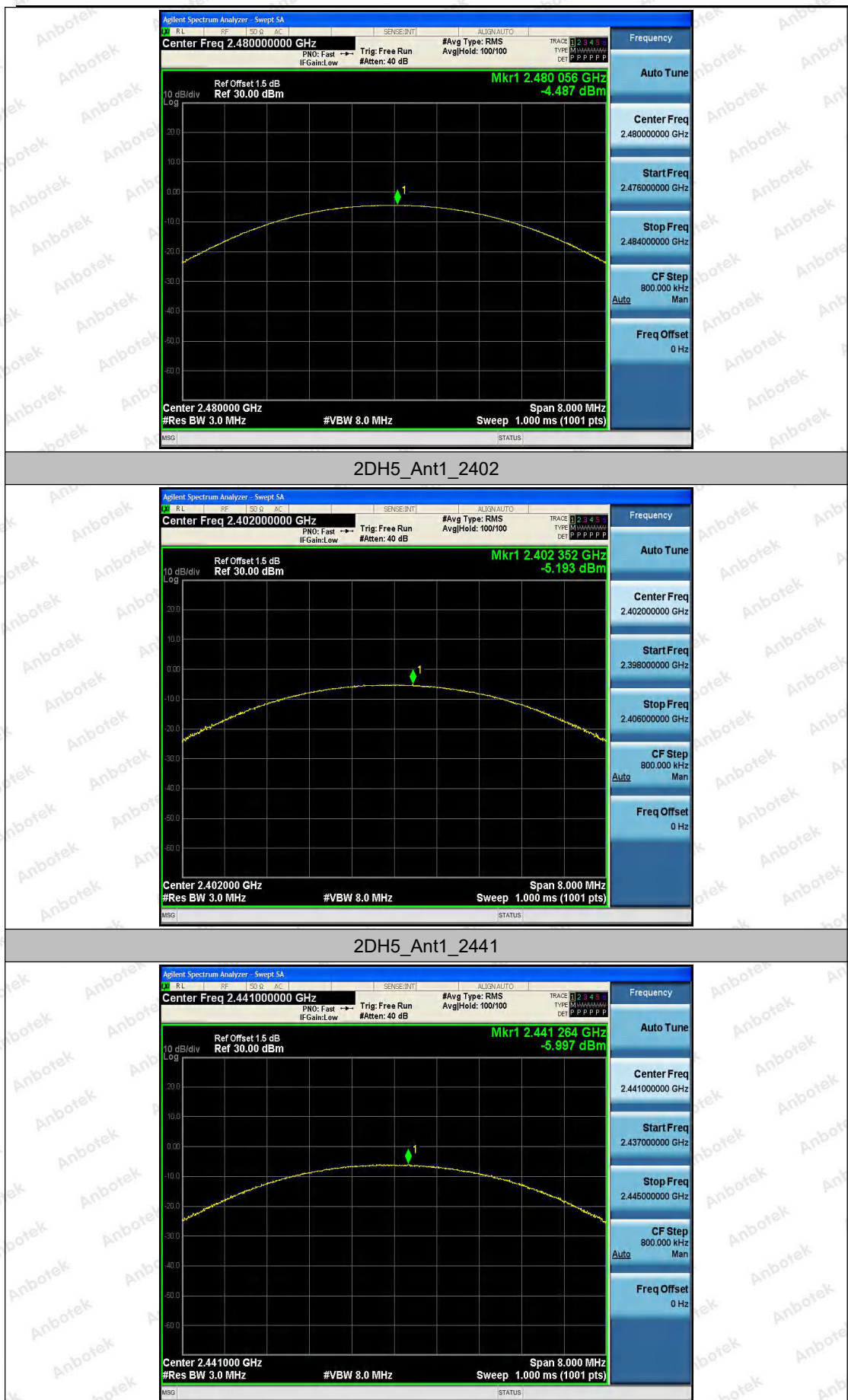
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.93	≤20.97	PASS
		2441	-5.17	≤20.97	PASS
		2480	-4.49	≤20.97	PASS
2DH5	Ant1	2402	-5.19	≤20.97	PASS
		2441	-6	≤20.97	PASS
		2480	-5.11	≤20.97	PASS
3DH5	Ant1	2402	-5.13	≤20.97	PASS
		2441	-5.8	≤20.97	PASS
		2480	-5.22	≤20.97	PASS

Test Graphs





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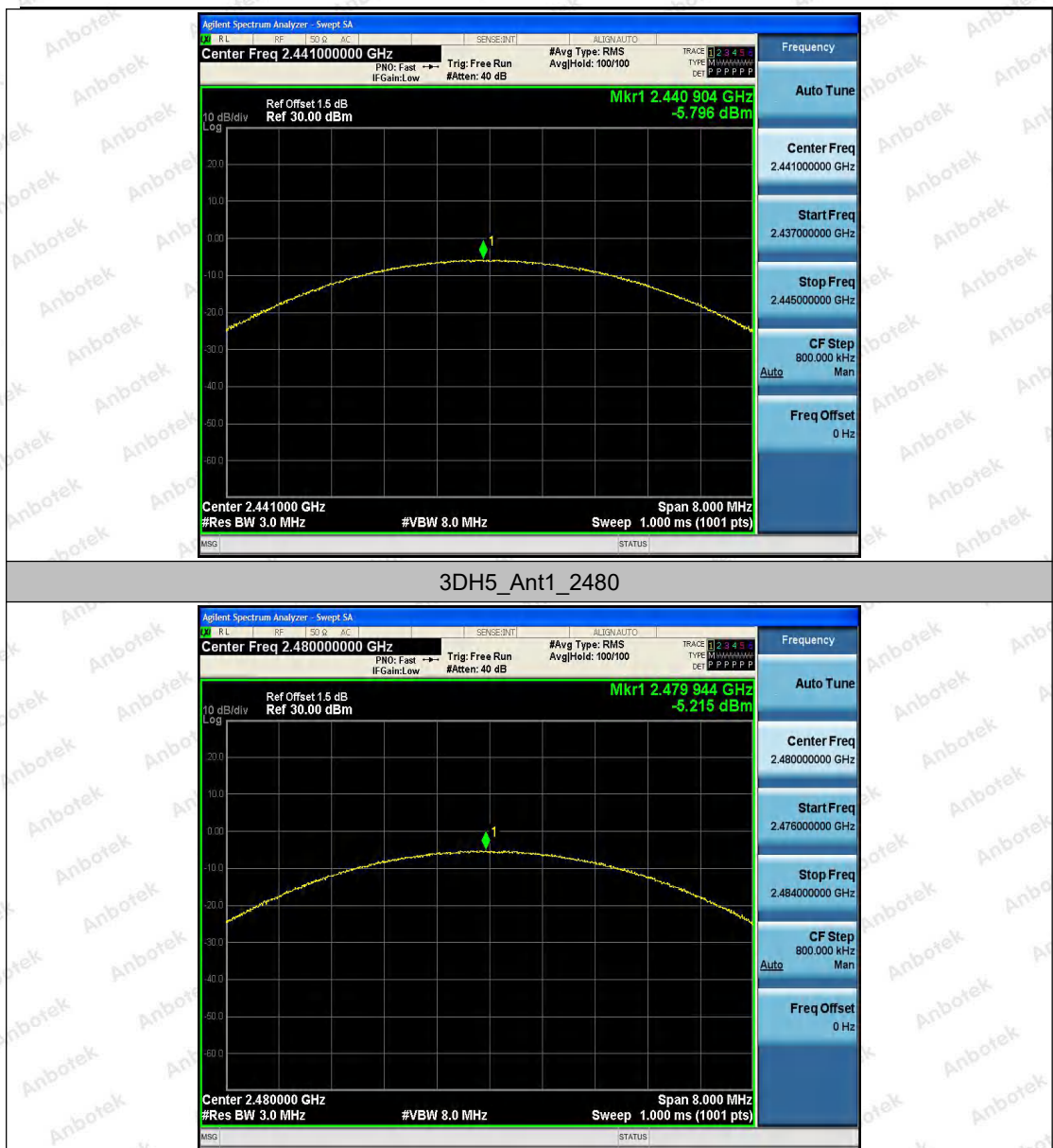
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.064	≥ 0.945	PASS
2DH5	Ant1	Hop	1.186	≥ 0.882	PASS
3DH5	Ant1	Hop	1.132	≥ 0.888	PASS

Test Graphs



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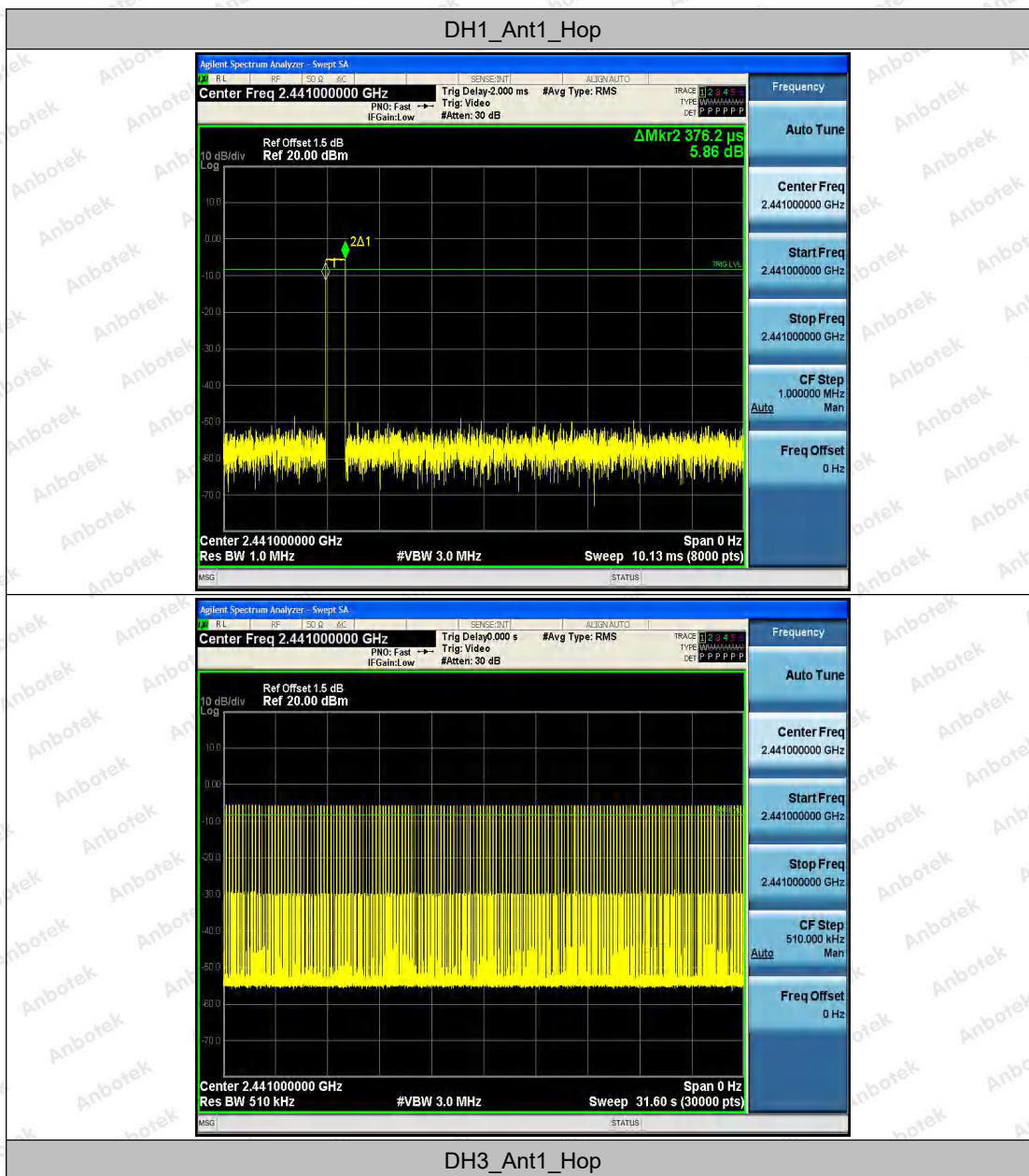
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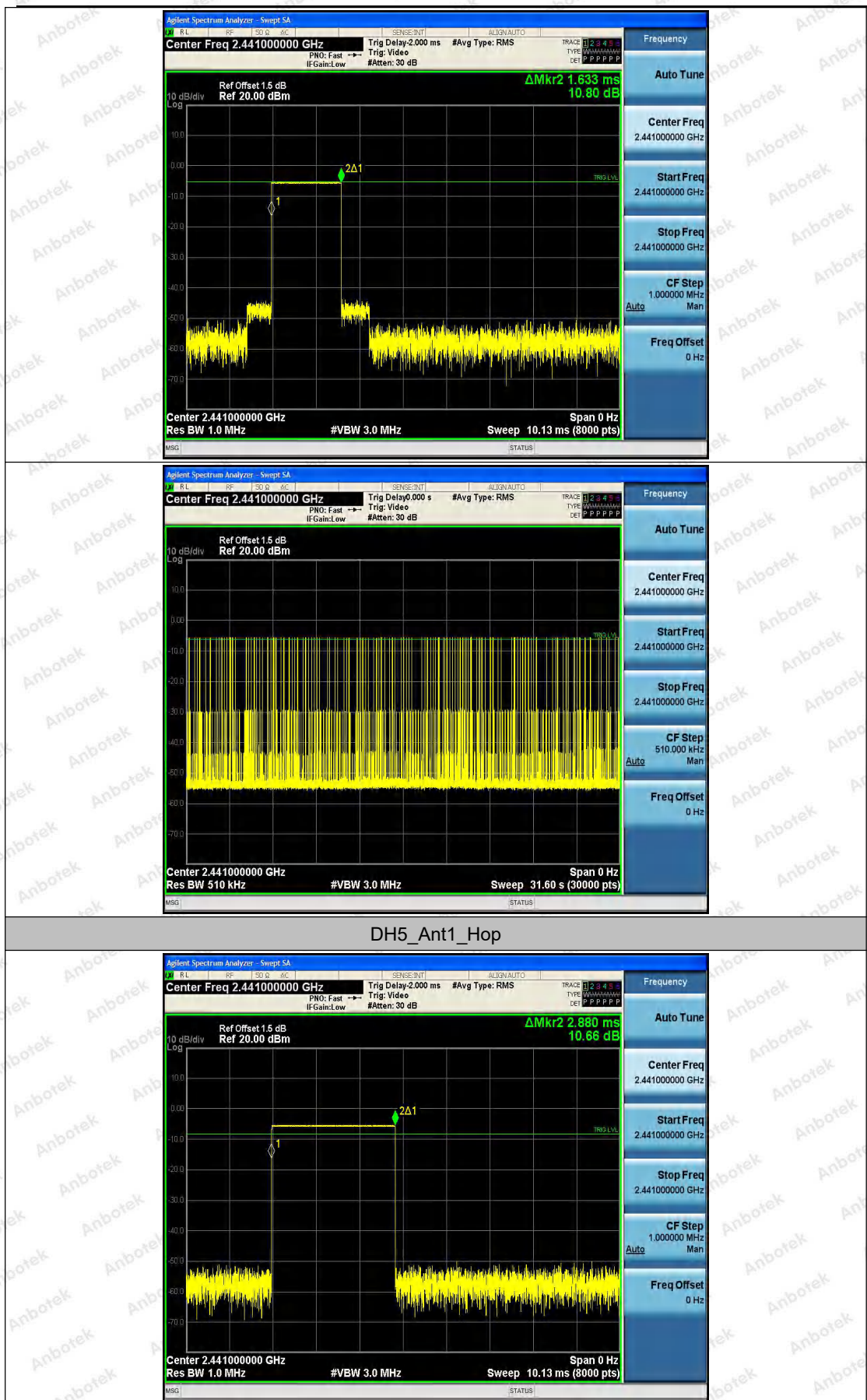
Appendix E: Time of occupancy

Test Result

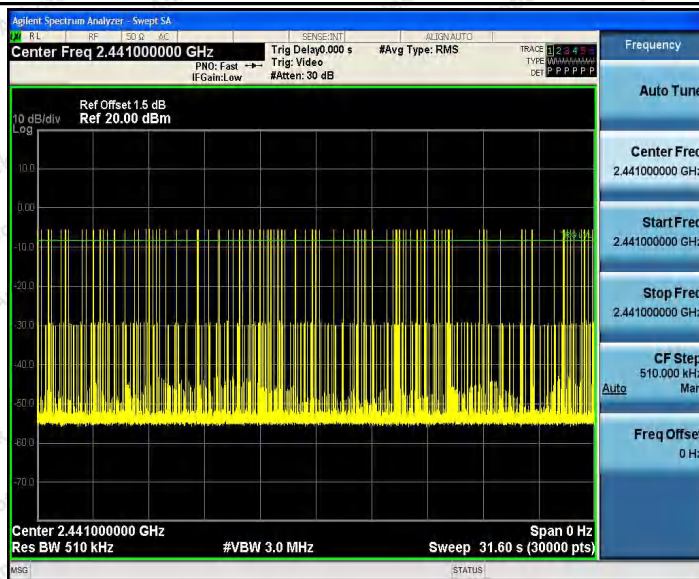
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	312	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.38	99	0.235	≤0.4	PASS
3DH1	Ant1	Hop	0.39	315	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.89	105	0.303	≤0.4	PASS

Test Graphs

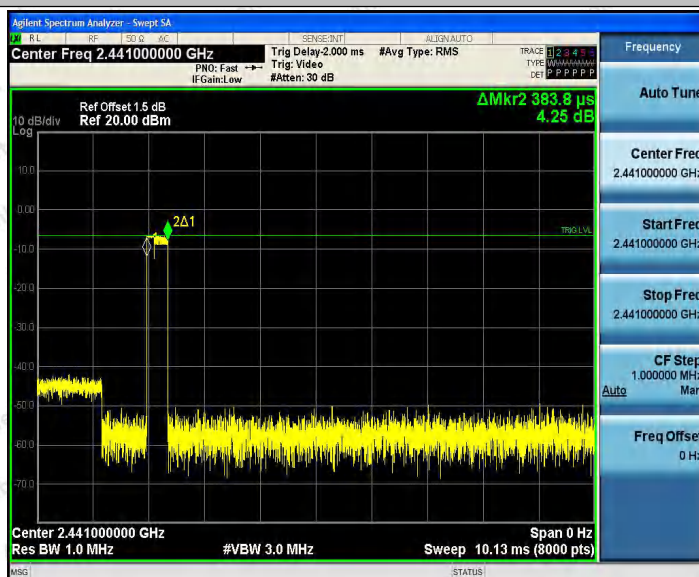




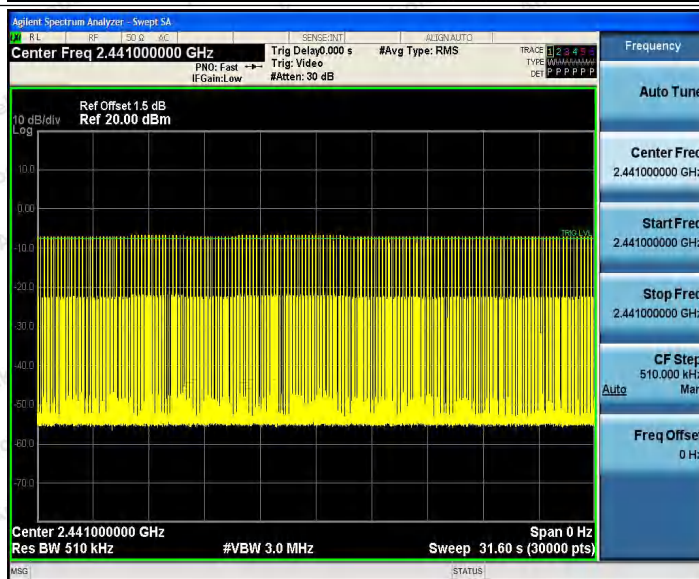
DH5_Ant1_Hop

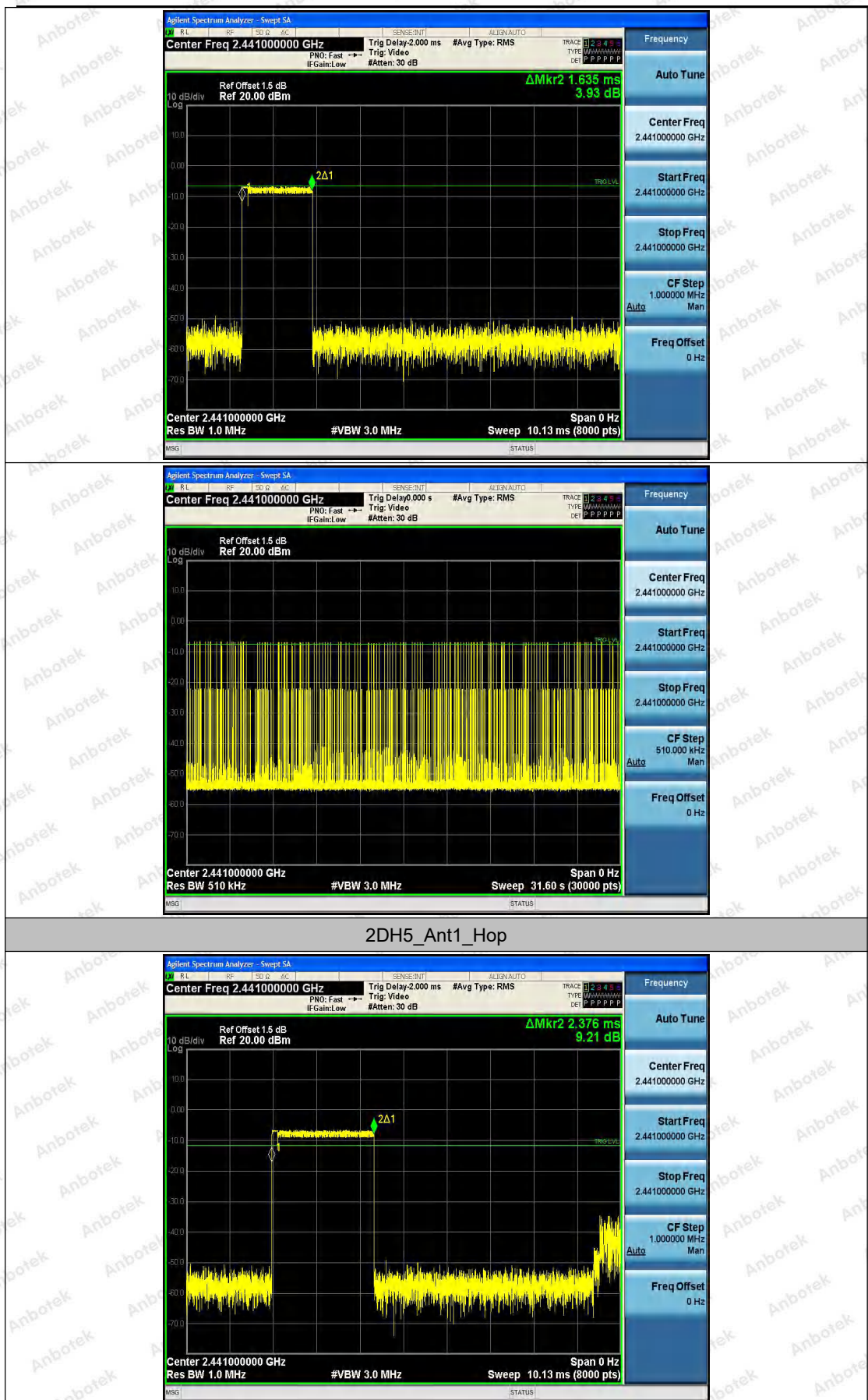


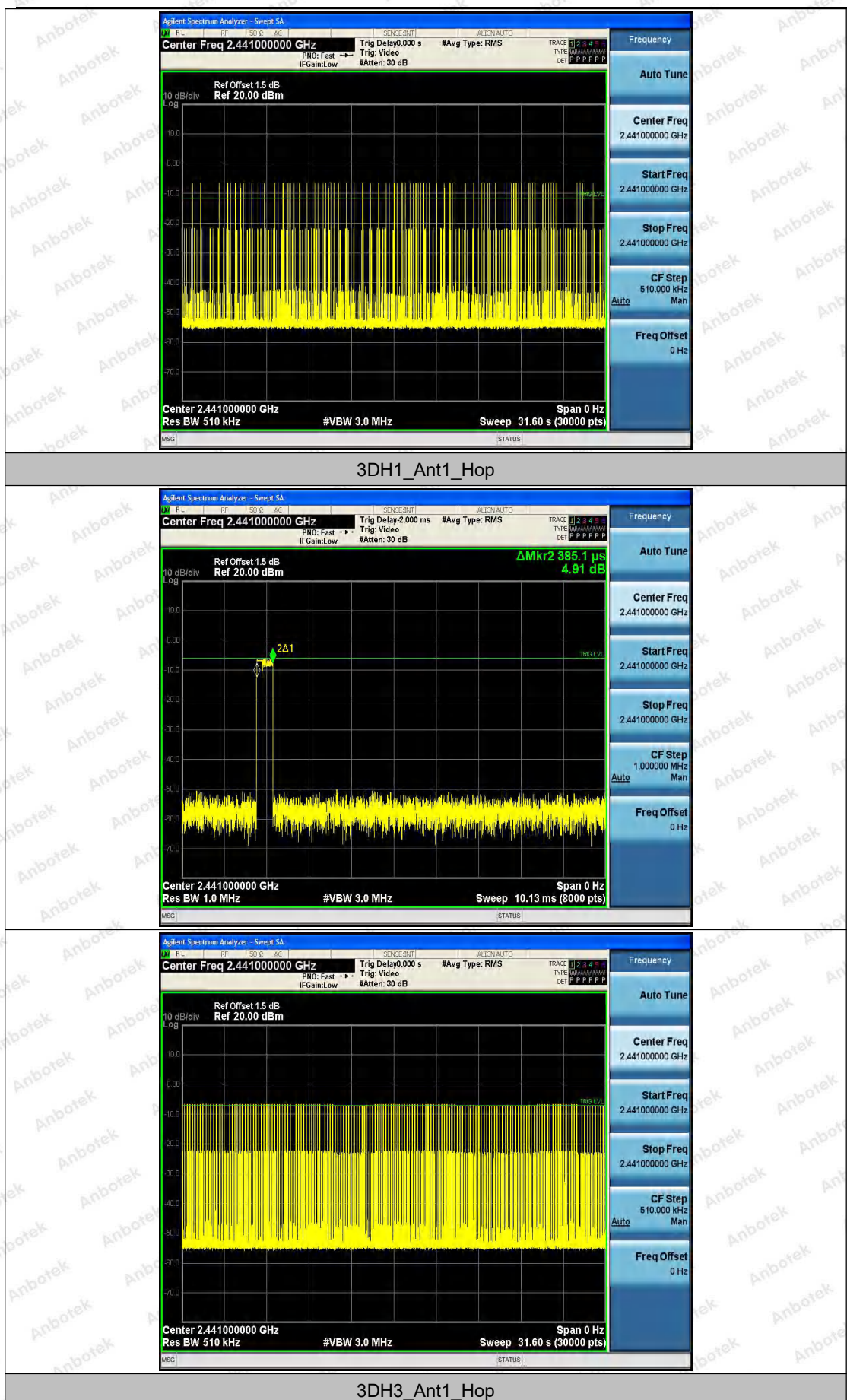
2DH1_Ant1_Hop



2DH3_Ant1_Hop





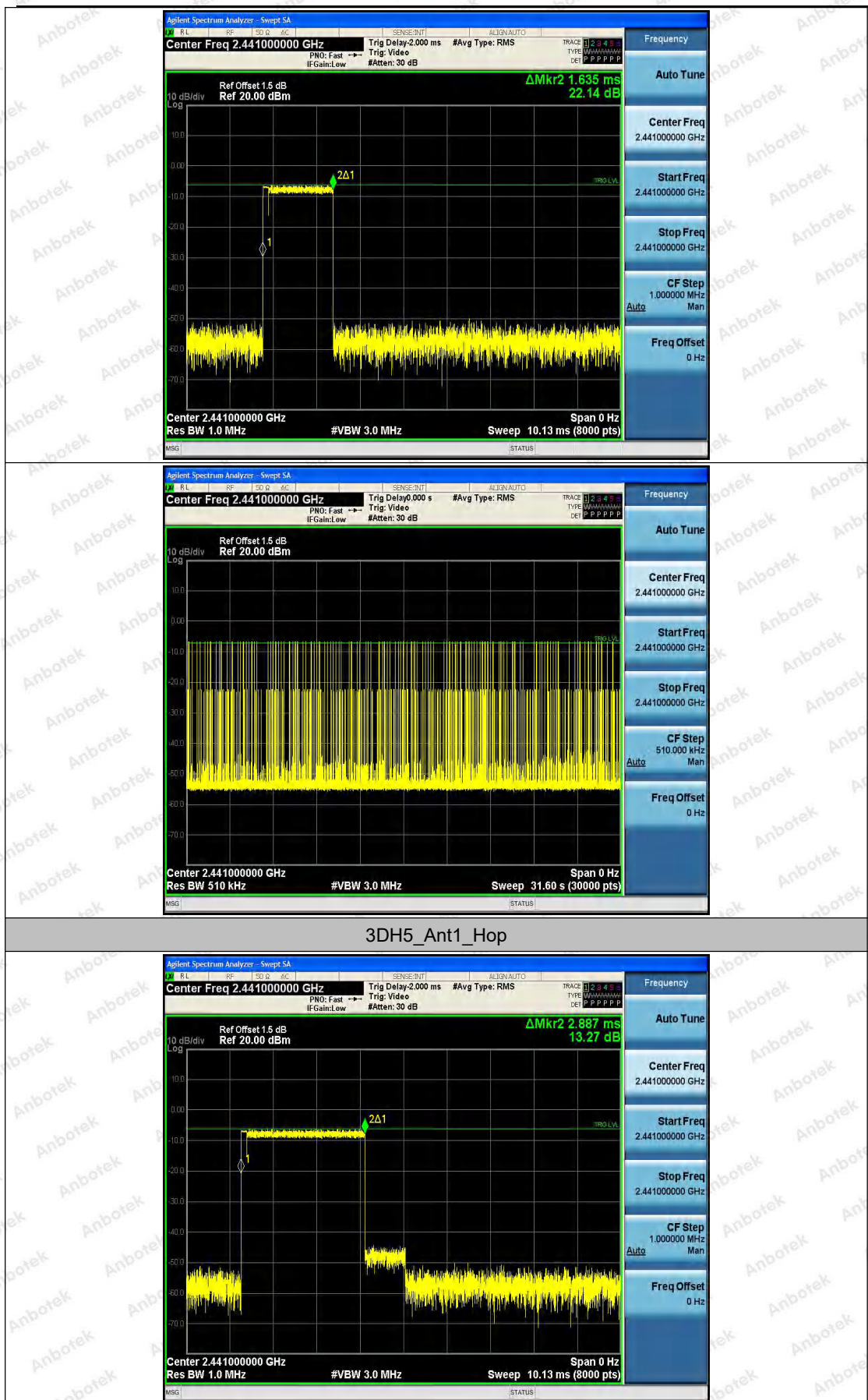


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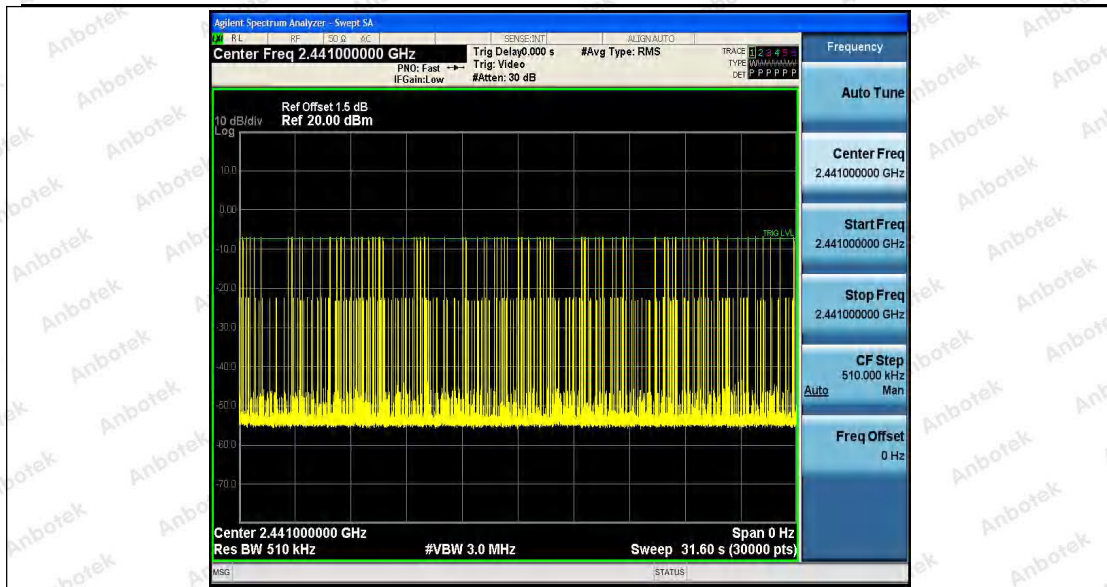
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3DH5_Ant1_Hop



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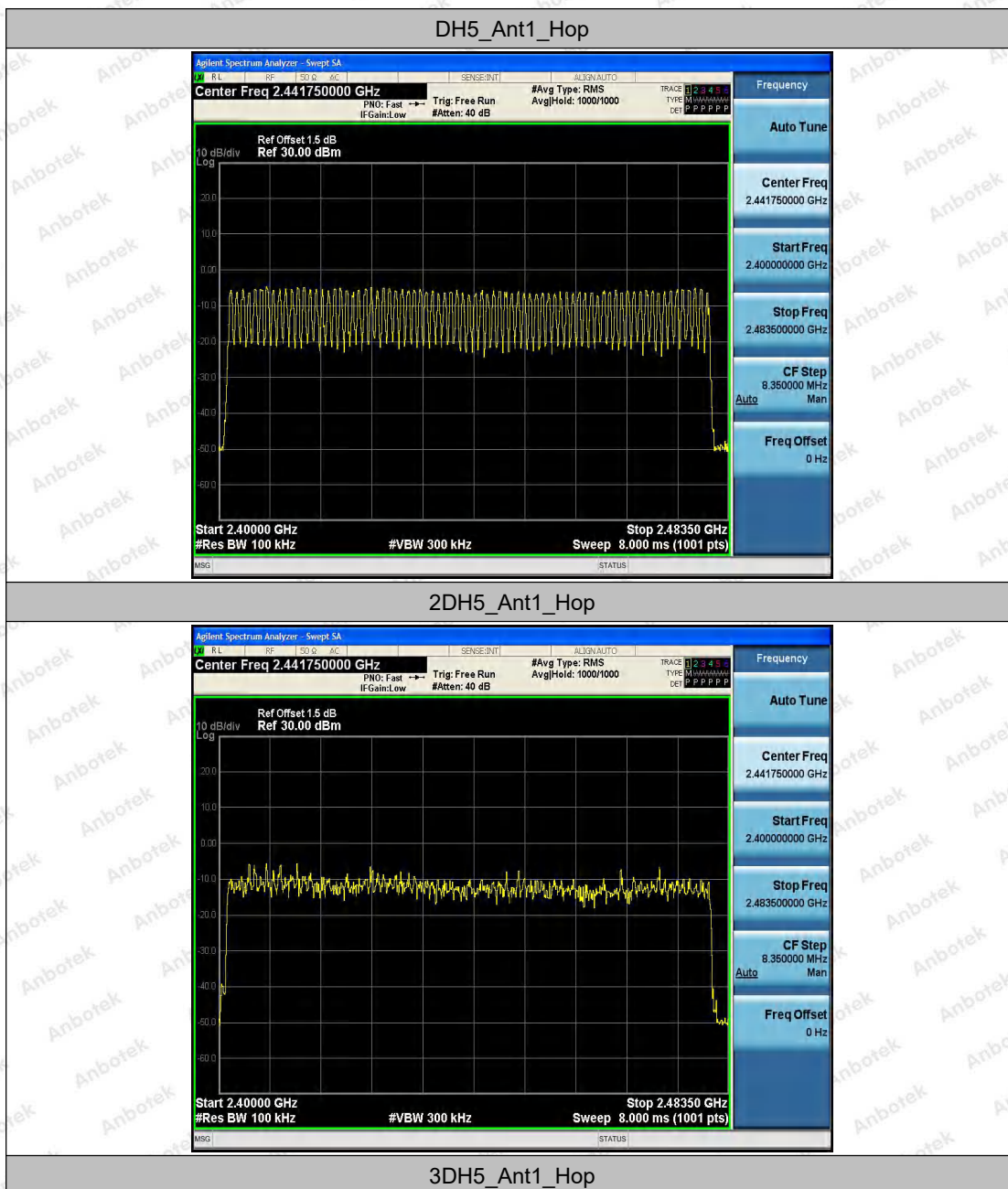
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Appendix F: Number of hopping channels

Test Result

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

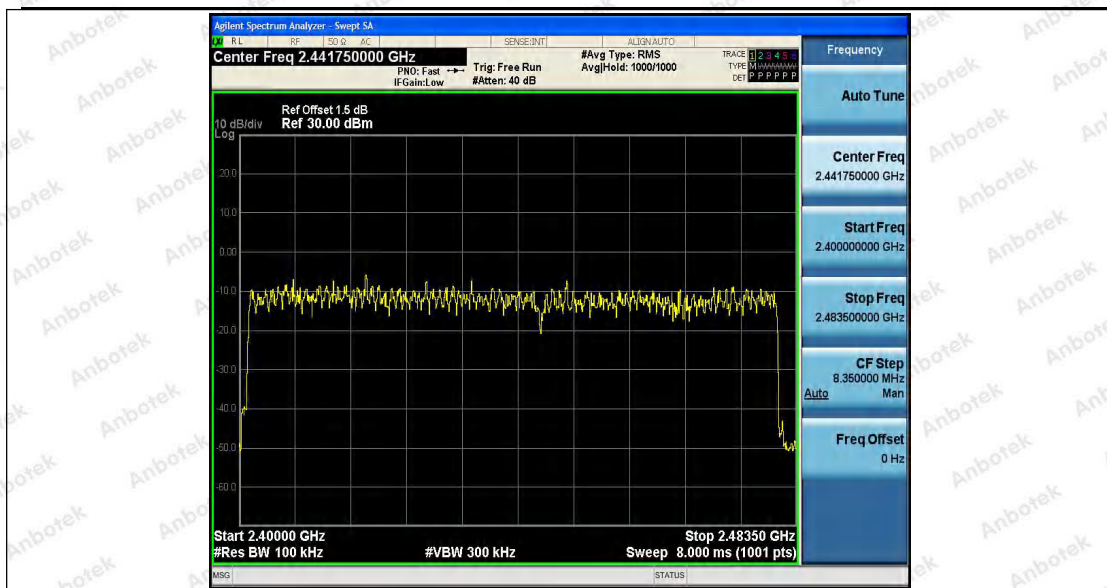


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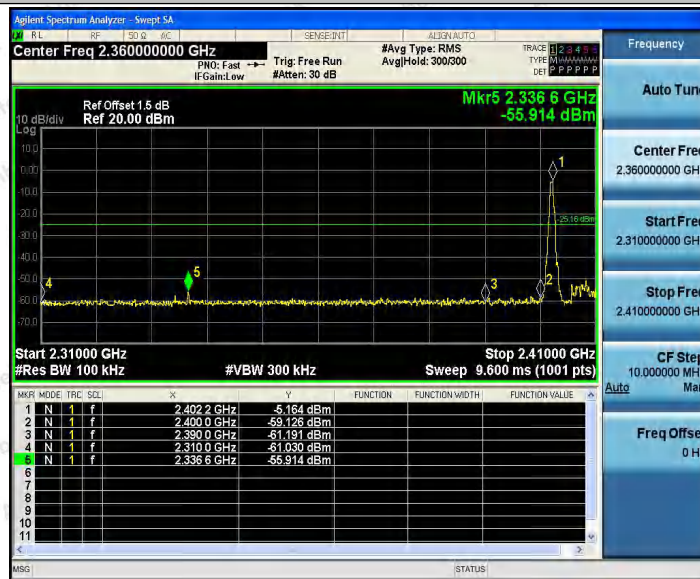
Appendix G: Band edge measurements

Test Result

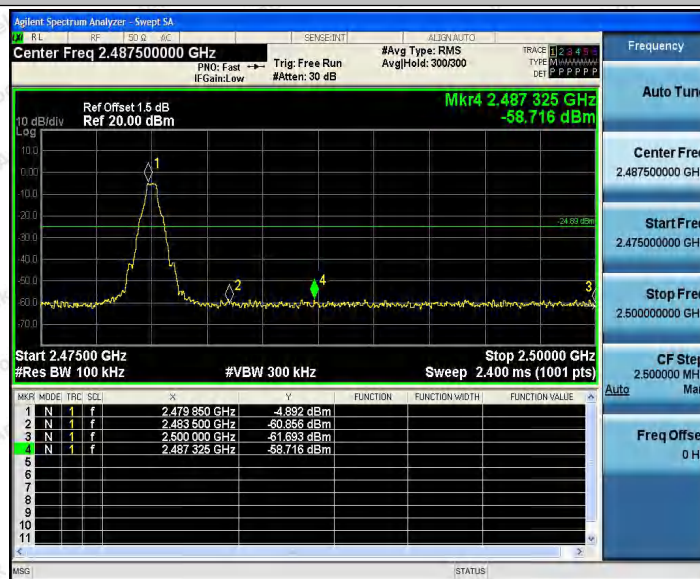
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-5.16	-55.91	≤-25.16	PASS
		High	2480	-4.89	-58.72	≤-24.89	PASS
		Low	Hop	-5.19	-58.19	≤-25.19	PASS
		High	Hop	-5.16	-60.88	≤-25.16	PASS
2DH5	Ant1	Low	2402	-8.14	-58.04	≤-28.14	PASS
		High	2480	-6.35	-58.16	≤-26.35	PASS
		Low	Hop	-9.54	-58.38	≤-29.54	PASS
		High	Hop	-9.27	-59.81	≤-29.27	PASS
3DH5	Ant1	Low	2402	-5.96	-57.5	≤-25.96	PASS
		High	2480	-6.45	-58.04	≤-26.45	PASS
		Low	Hop	-9.37	-52.26	≤-29.37	PASS
		High	Hop	-8.09	-61.27	≤-28.09	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



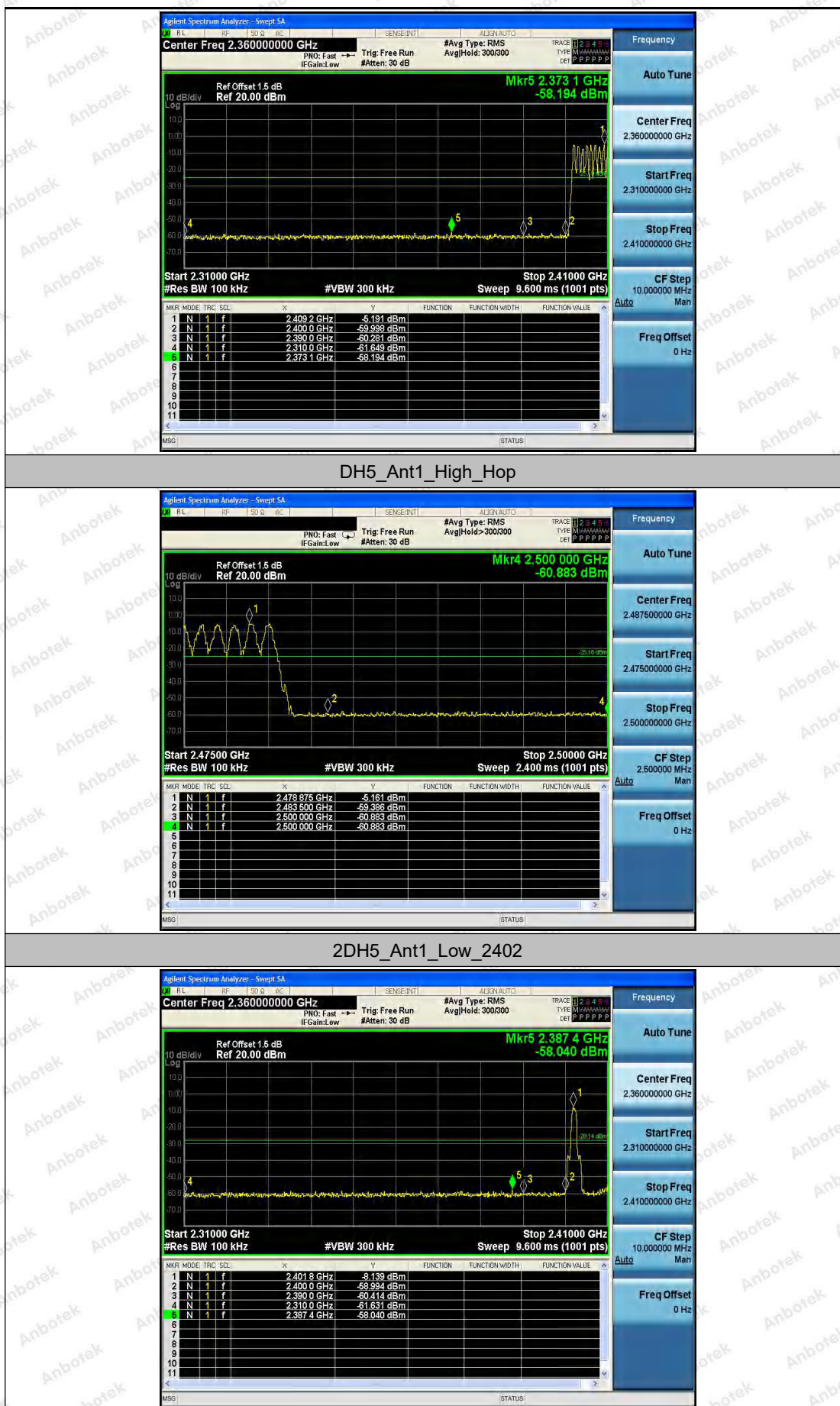
DH5_Ant1_Low_Hop

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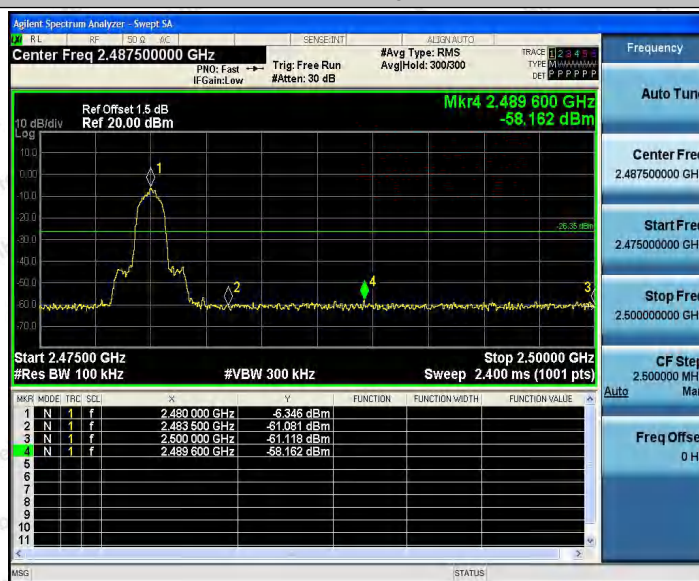
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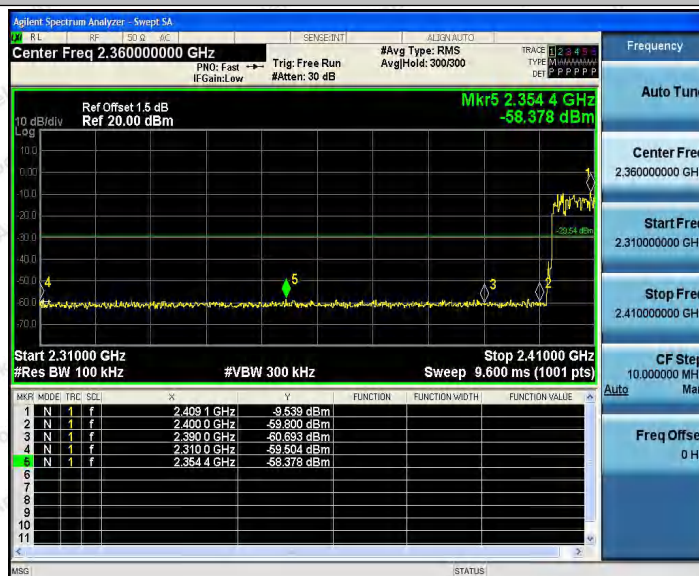
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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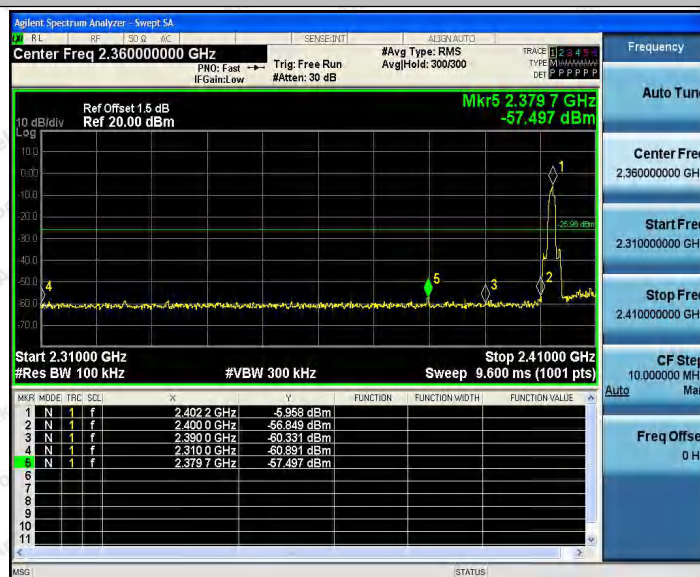
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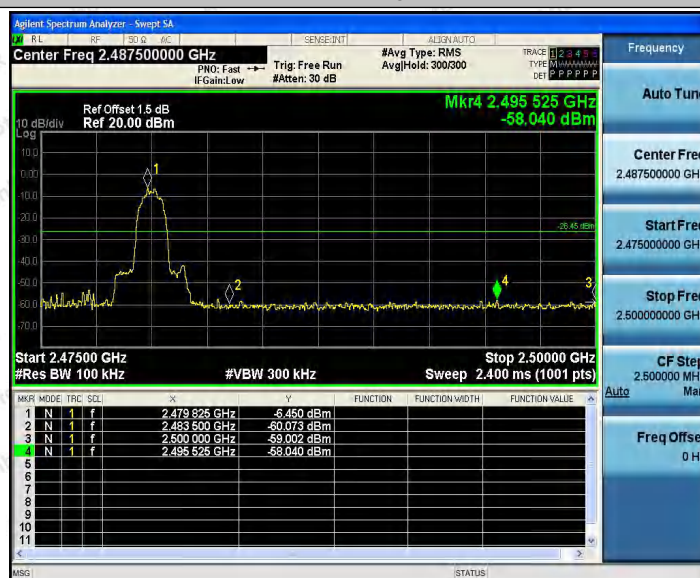
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

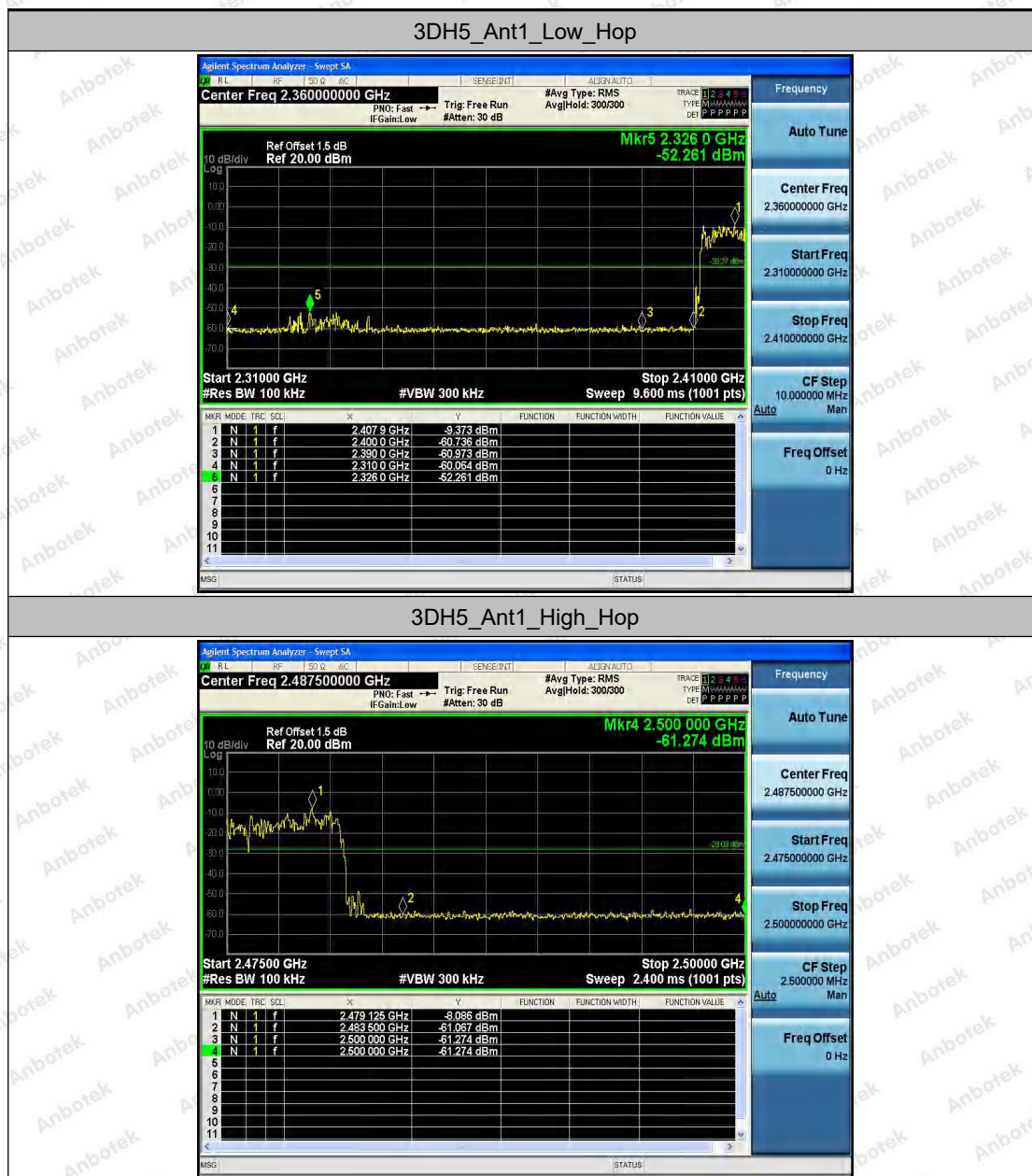


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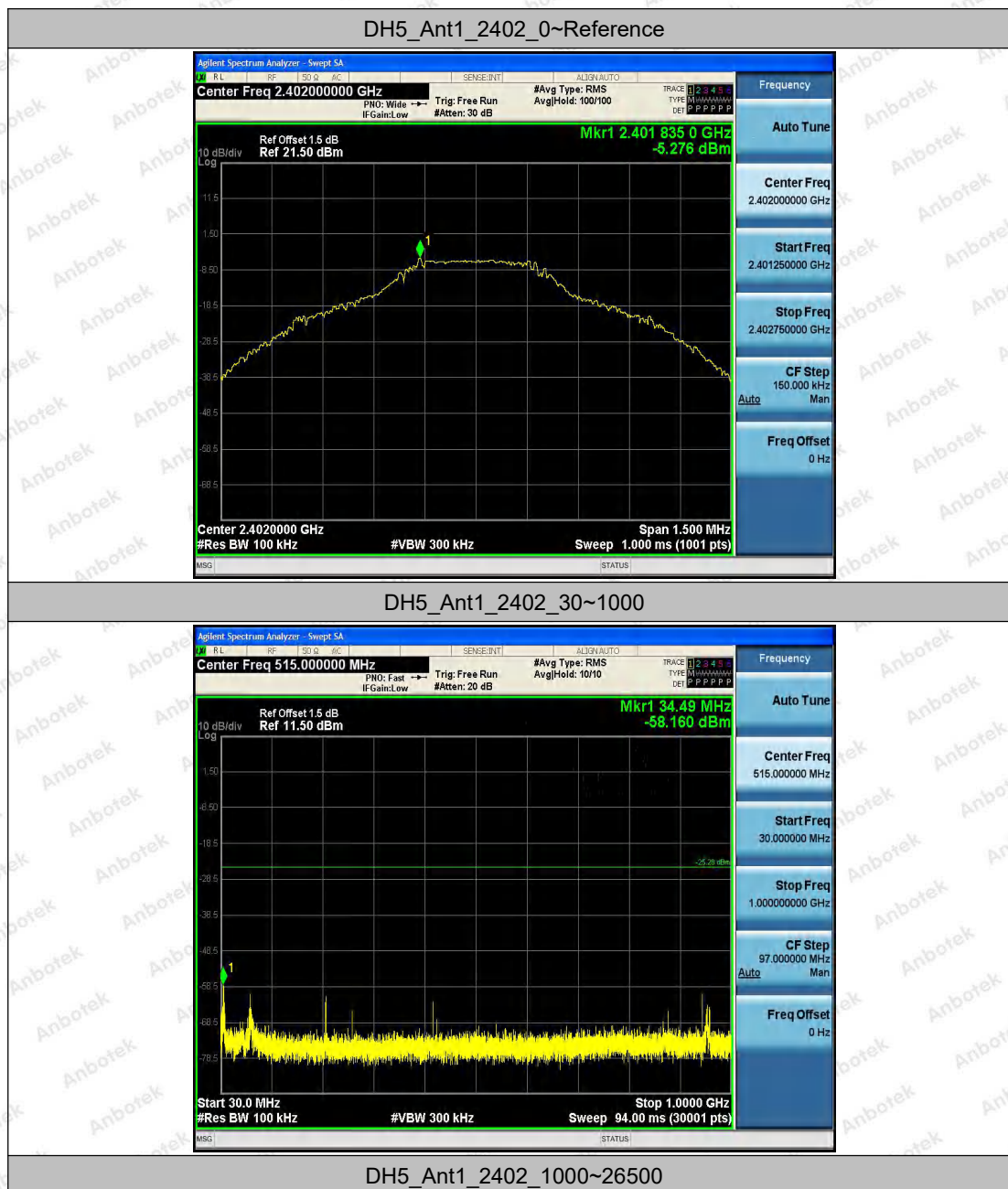
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-58.16	≤-25.28	PASS
			1000~26500	-5.28	-41.03	≤-25.28	PASS
		2441	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-60.85	≤-26	PASS
			1000~26500	-6.00	-43.44	≤-26	PASS
		2480	Reference	-4.97	-4.97	---	PASS
			30~1000	-4.97	-59.34	≤-24.97	PASS
			1000~26500	-4.97	-47.89	≤-24.97	PASS
2DH5	Ant1	2402	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-61.95	≤-26.08	PASS
			1000~26500	-6.08	-45.97	≤-26.08	PASS
		2441	Reference	-6.96	-6.96	---	PASS
			30~1000	-6.96	-59.14	≤-26.96	PASS
			1000~26500	-6.96	-46.37	≤-26.96	PASS
		2480	Reference	-6.85	-6.85	---	PASS
			30~1000	-6.85	-59.71	≤-26.85	PASS
			1000~26500	-6.85	-51.61	≤-26.85	PASS
3DH5	Ant1	2402	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-59.47	≤-26	PASS
			1000~26500	-6.00	-45.38	≤-26	PASS
		2441	Reference	-6.87	-6.87	---	PASS
			30~1000	-6.87	-58.5	≤-26.87	PASS
			1000~26500	-6.87	-47.96	≤-26.87	PASS
		2480	Reference	-7.01	-7.01	---	PASS
			30~1000	-7.01	-59.08	≤-27.01	PASS
			1000~26500	-7.01	-50.95	≤-27.01	PASS

Test Graphs



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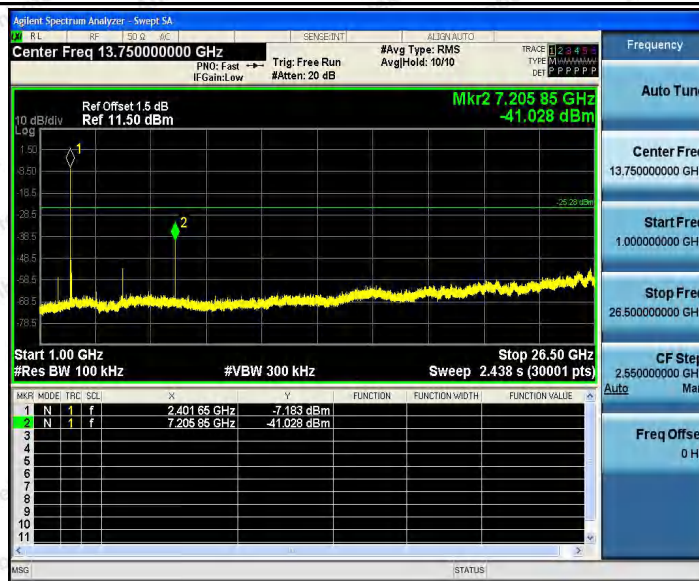
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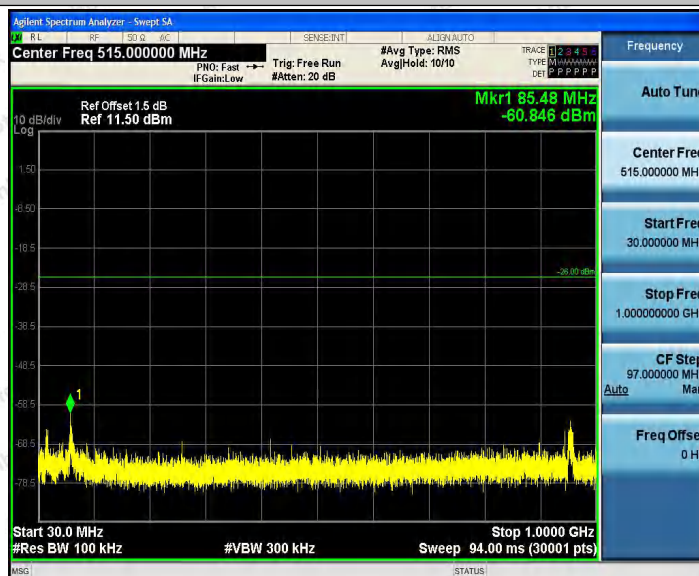
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



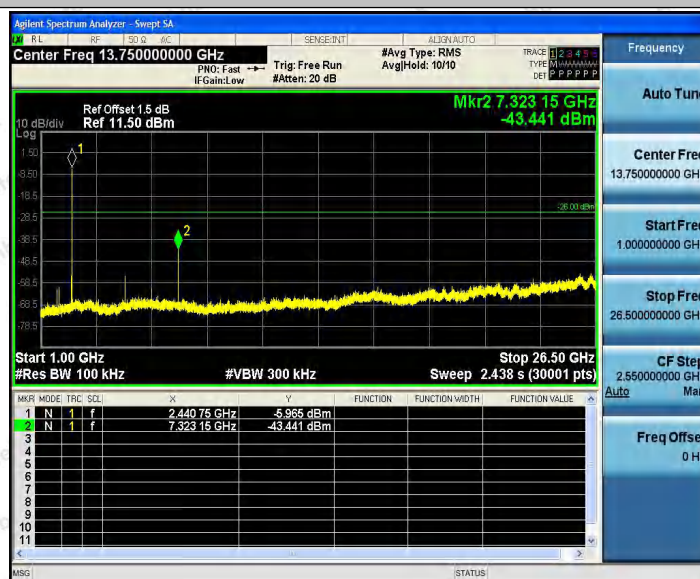
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



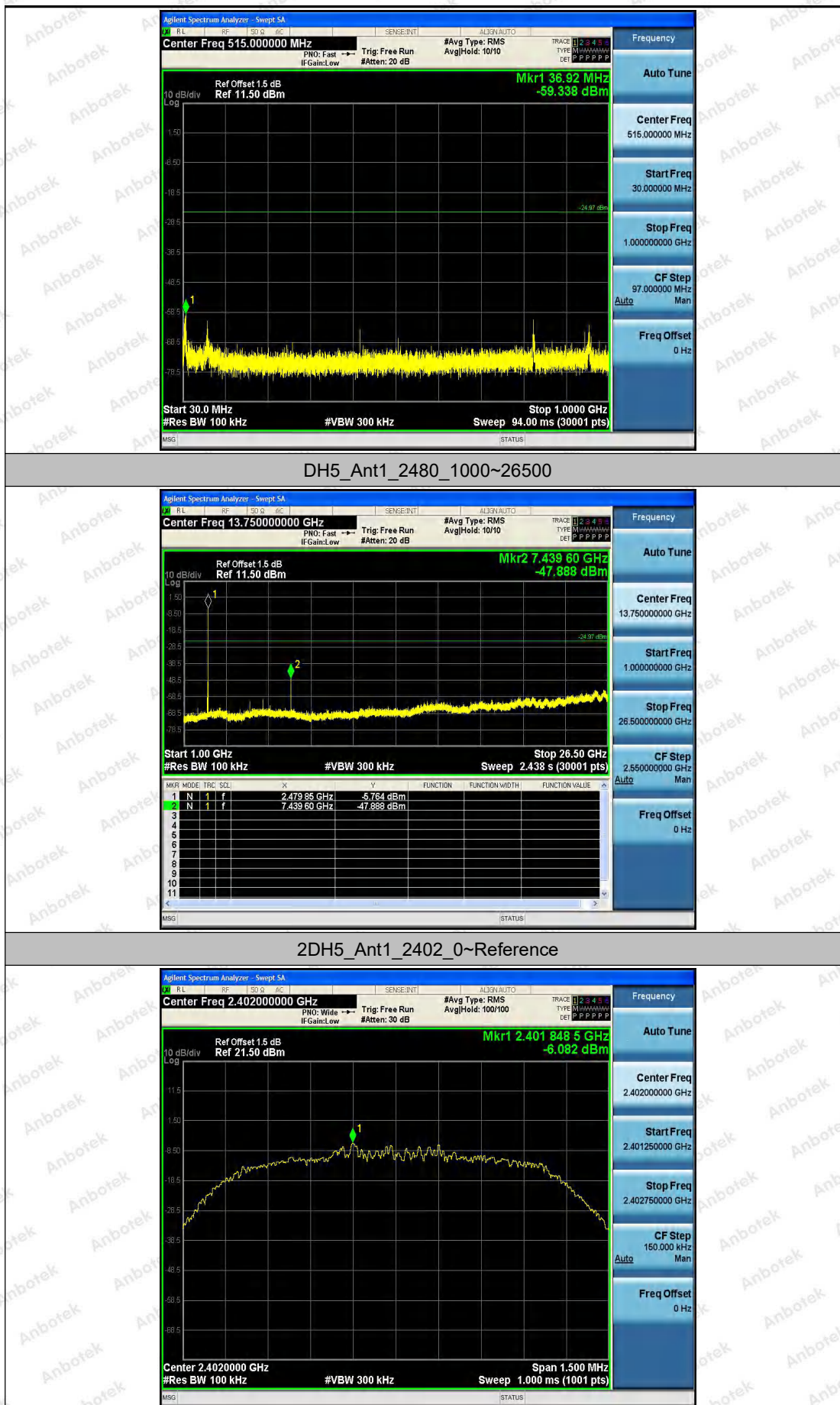
DH5_Ant1_2480_30~1000

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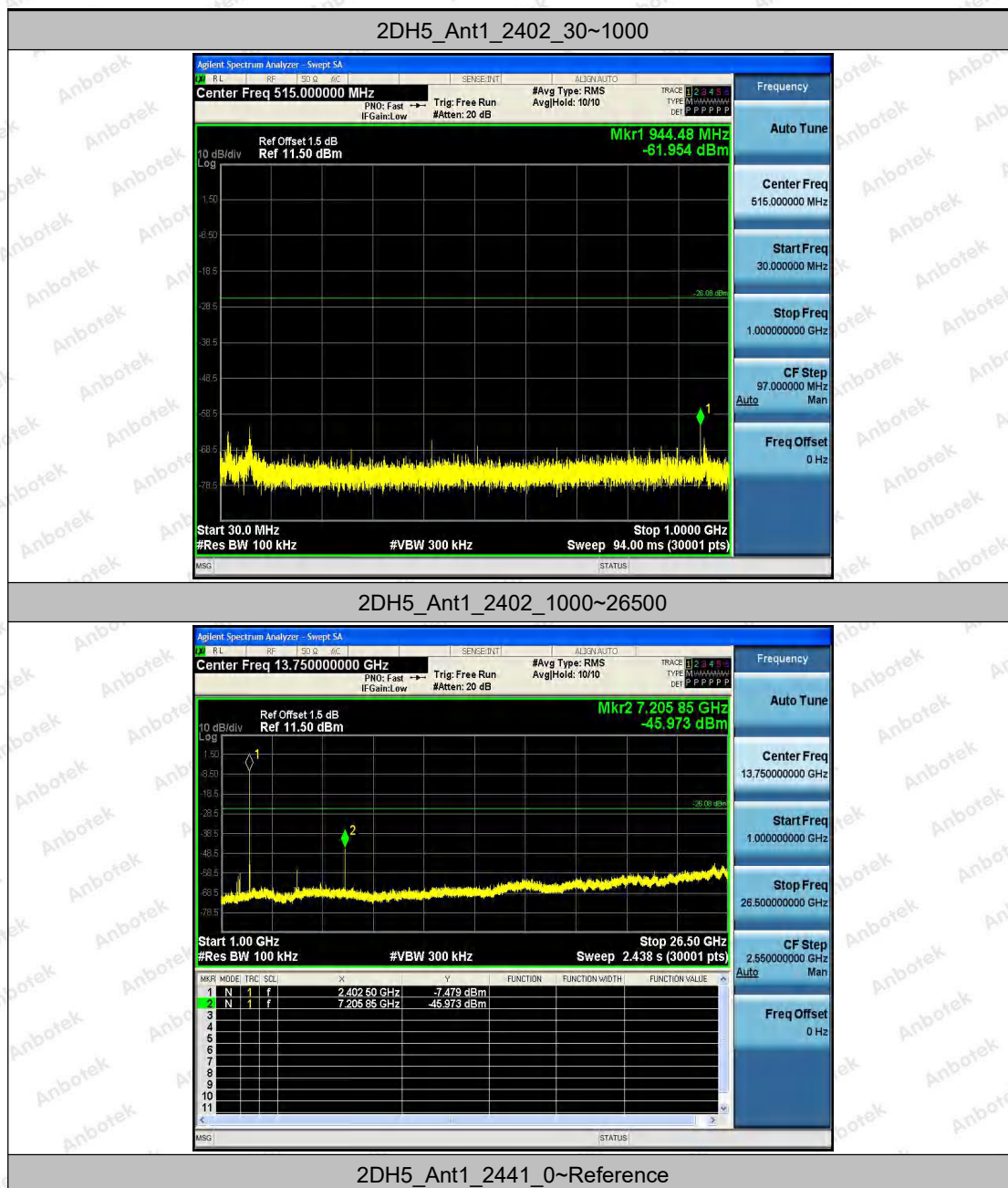


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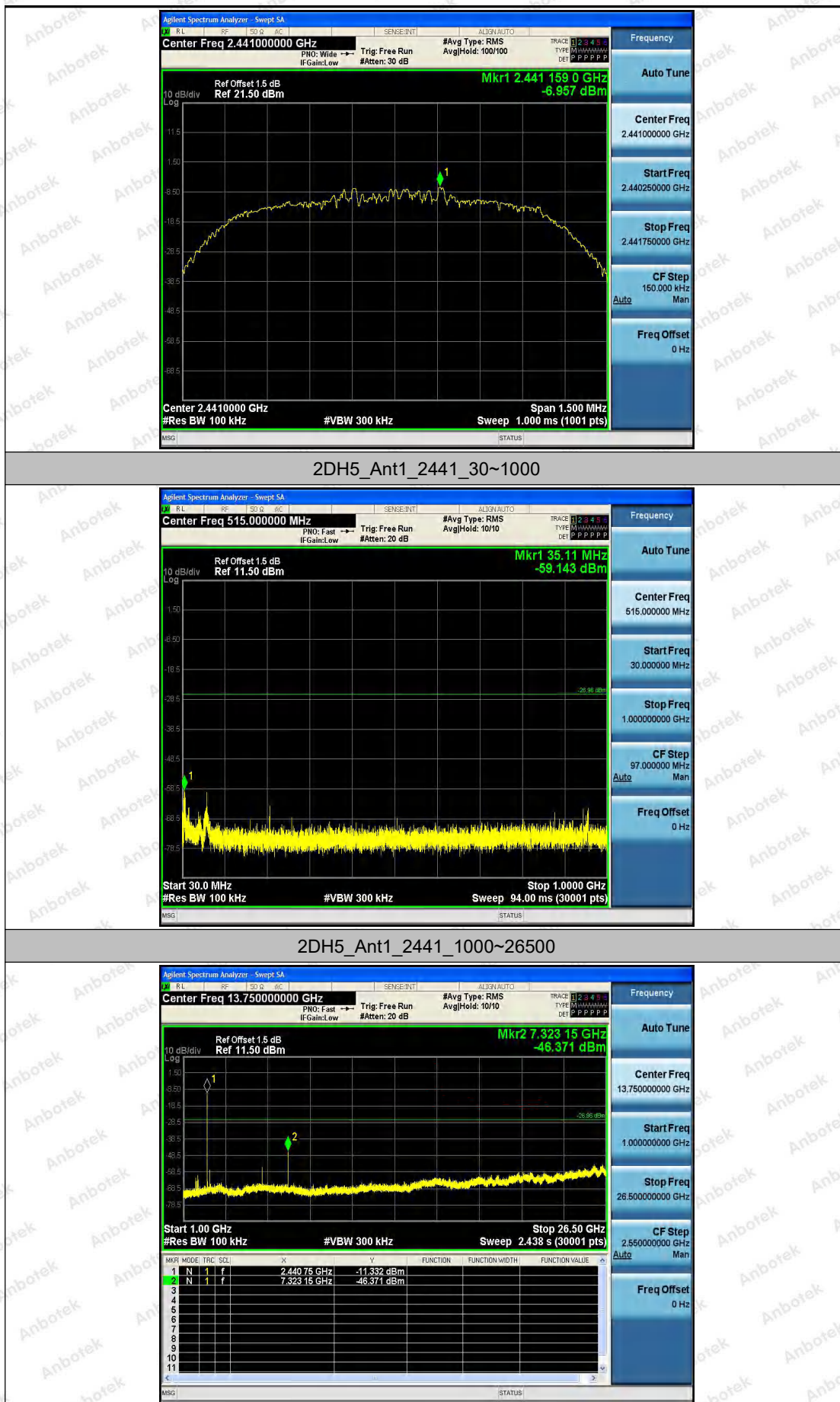


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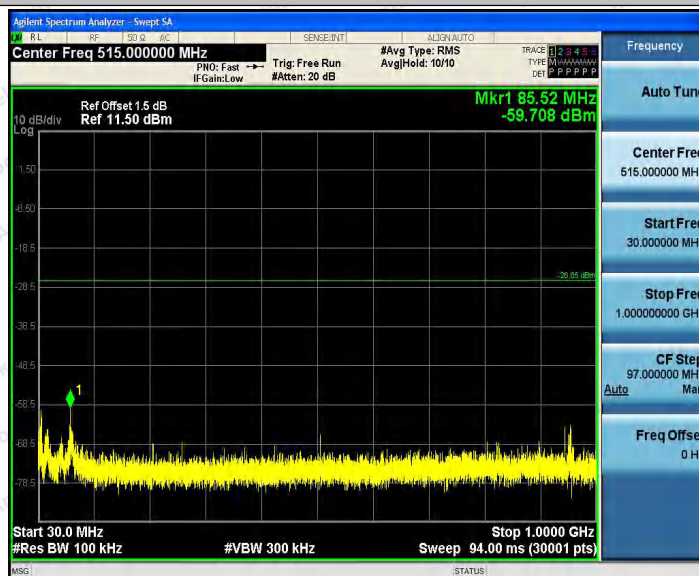
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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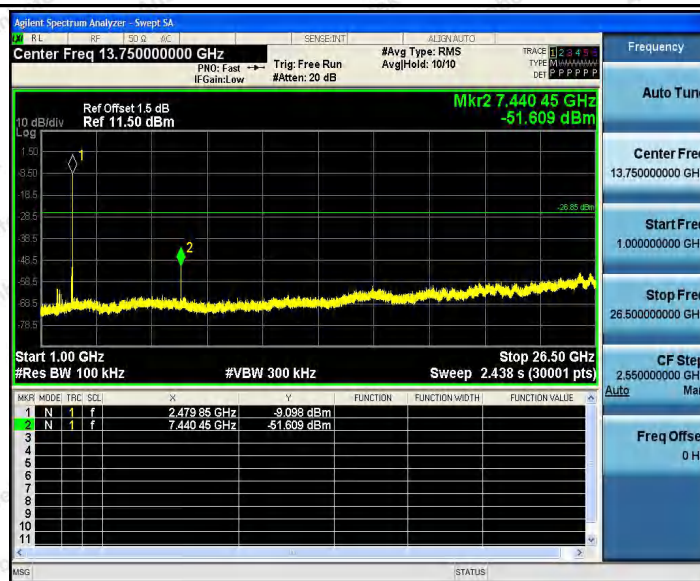
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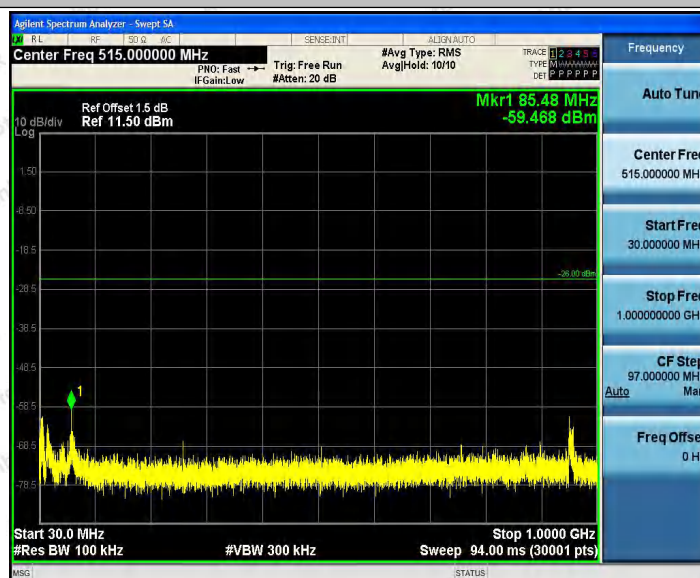
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



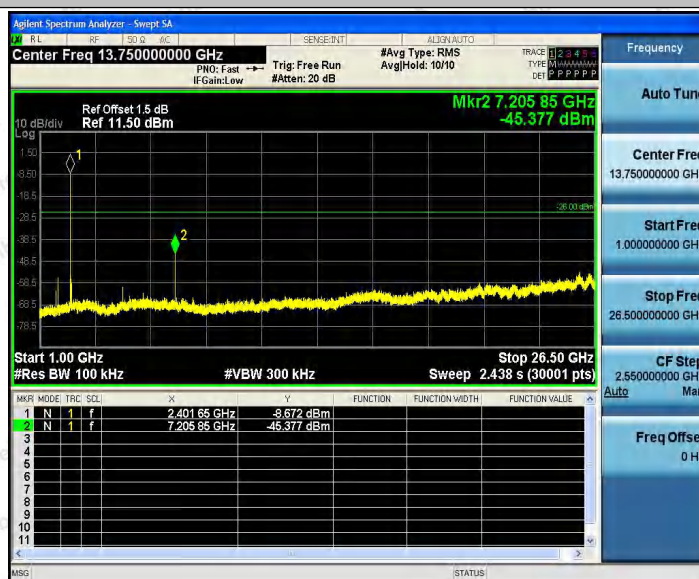
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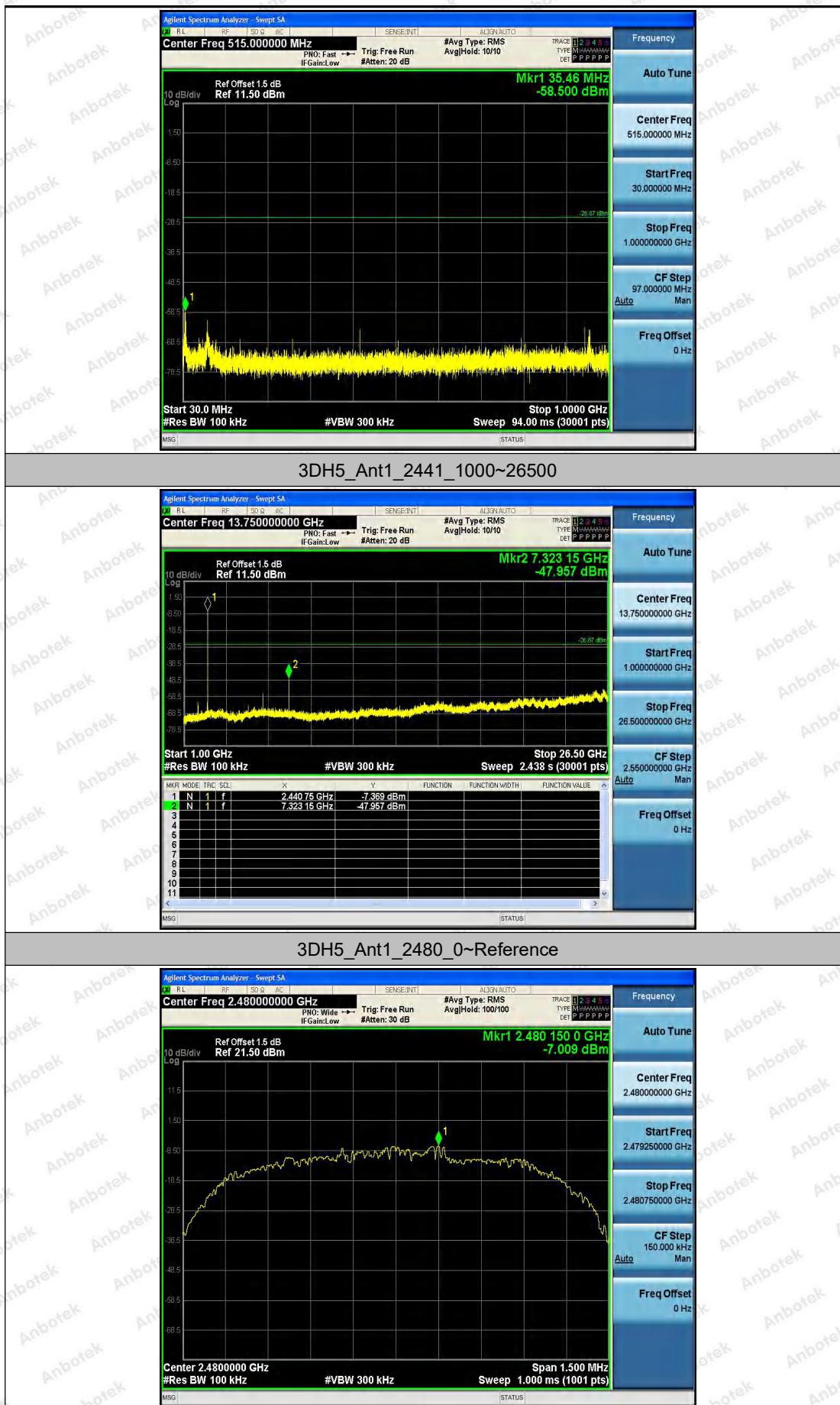
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

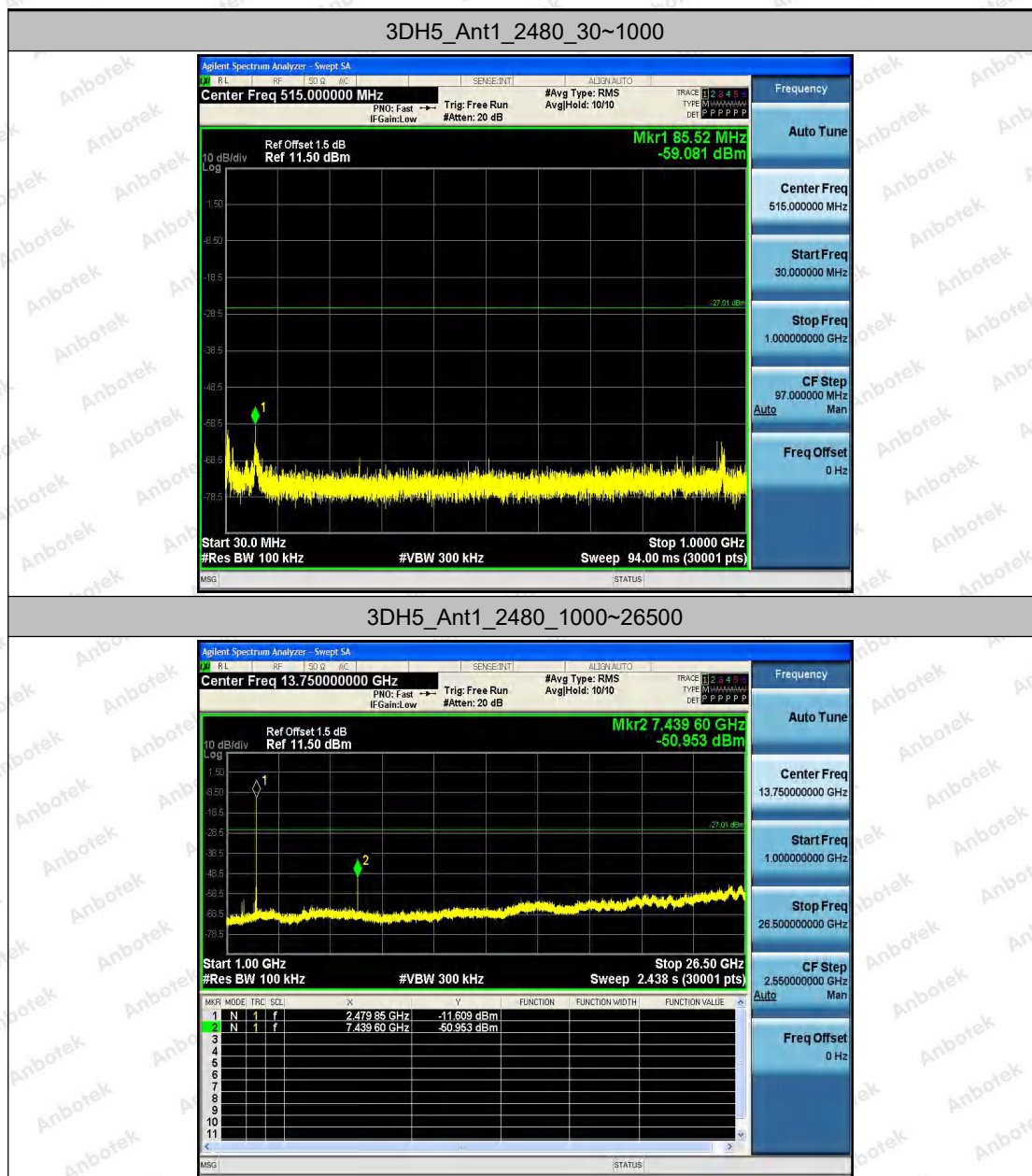


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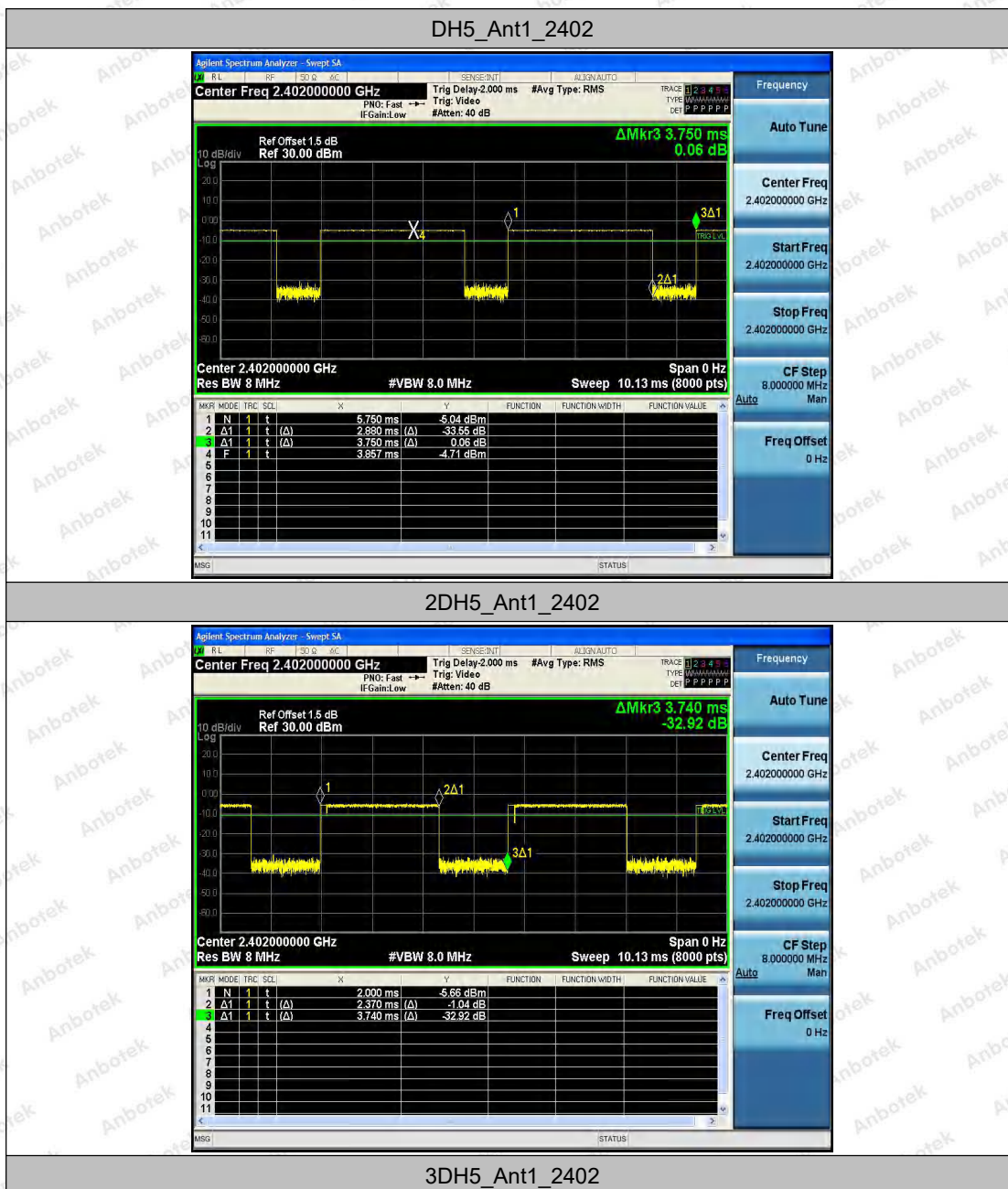
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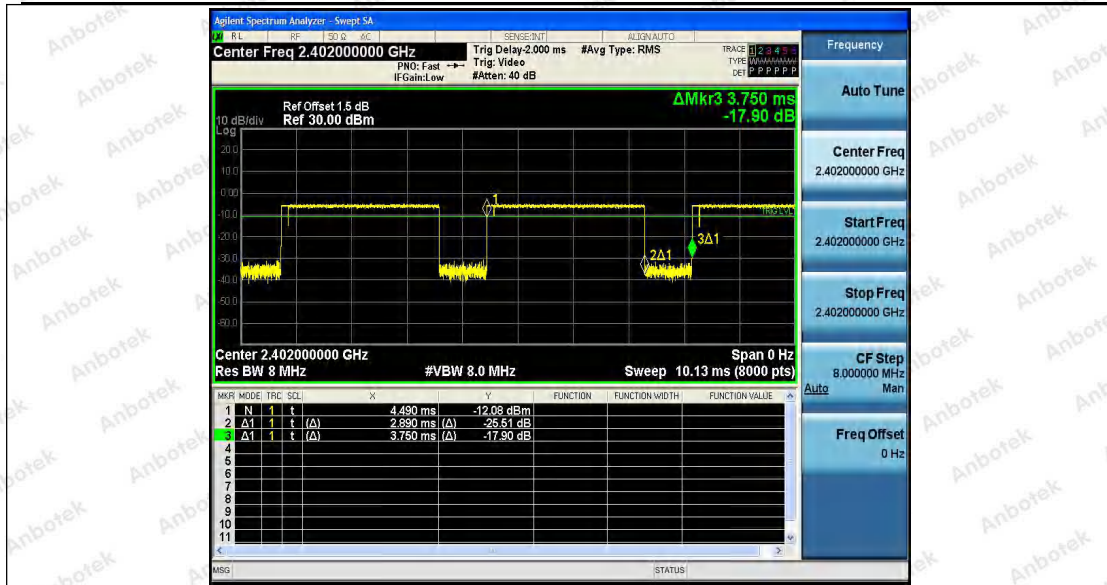
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.37	3.74	0.633 7	63.37	1.98	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---