

Appendix Test Data

Report No.:	18220WC10267101	Test Sample No.:	1-2-2
Start Test Date:	2021.12.7	Finish Test Date:	2021.12.15
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	1.035	2401.475	2402.510	---	PASS
		2441	1.044	2440.475	2441.519	---	PASS
		2480	1.032	2479.478	2480.510	---	PASS
2DH5	Ant1	2402	1.185	2401.397	2402.582	---	PASS
		2441	1.200	2440.394	2441.594	---	PASS
		2480	1.179	2479.400	2480.579	---	PASS
3DH5	Ant1	2402	1.254	2401.358	2402.612	---	PASS
		2441	1.302	2440.349	2441.651	---	PASS
		2480	1.230	2479.367	2480.597	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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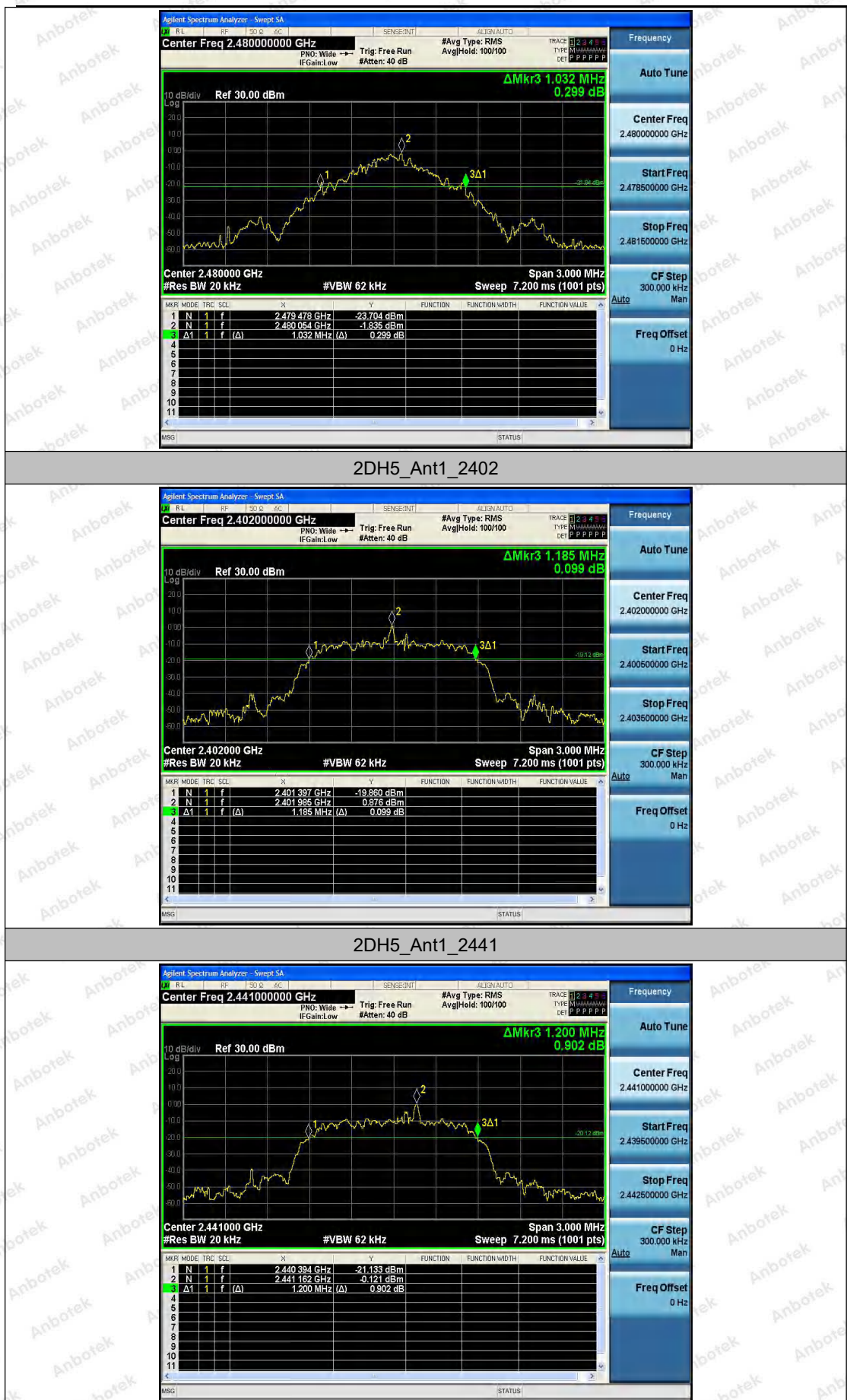
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2DH5_Ant1_2480



3DH5_Ant1_2402



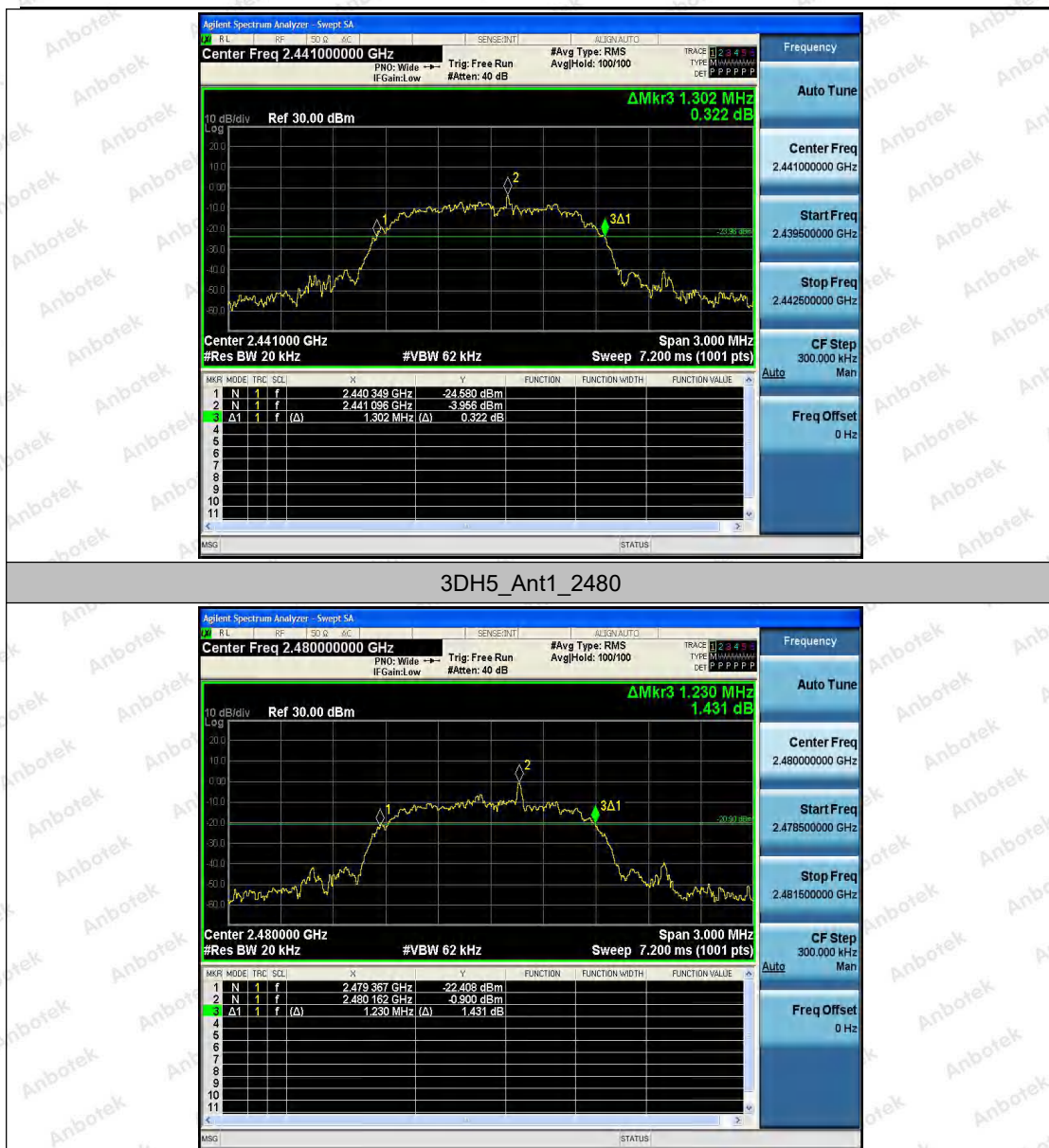
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86794	2401.55 5	2402.423	---	PASS
		2441	0.89269	2440.52 5	2441.418	---	PASS
		2480	0.86094	2479.55 5	2480.416	---	PASS
2DH5	Ant1	2402	1.1530	2401.41 9	2402.572	---	PASS
		2441	1.1695	2440.41 0	2441.580	---	PASS
		2480	1.1554	2479.41 0	2480.565	---	PASS
3DH5	Ant1	2402	1.1508	2401.42 3	2402.573	---	PASS
		2441	1.1649	2440.41 1	2441.576	---	PASS
		2480	1.1786	2479.39 8	2480.577	---	PASS

Test Graphs



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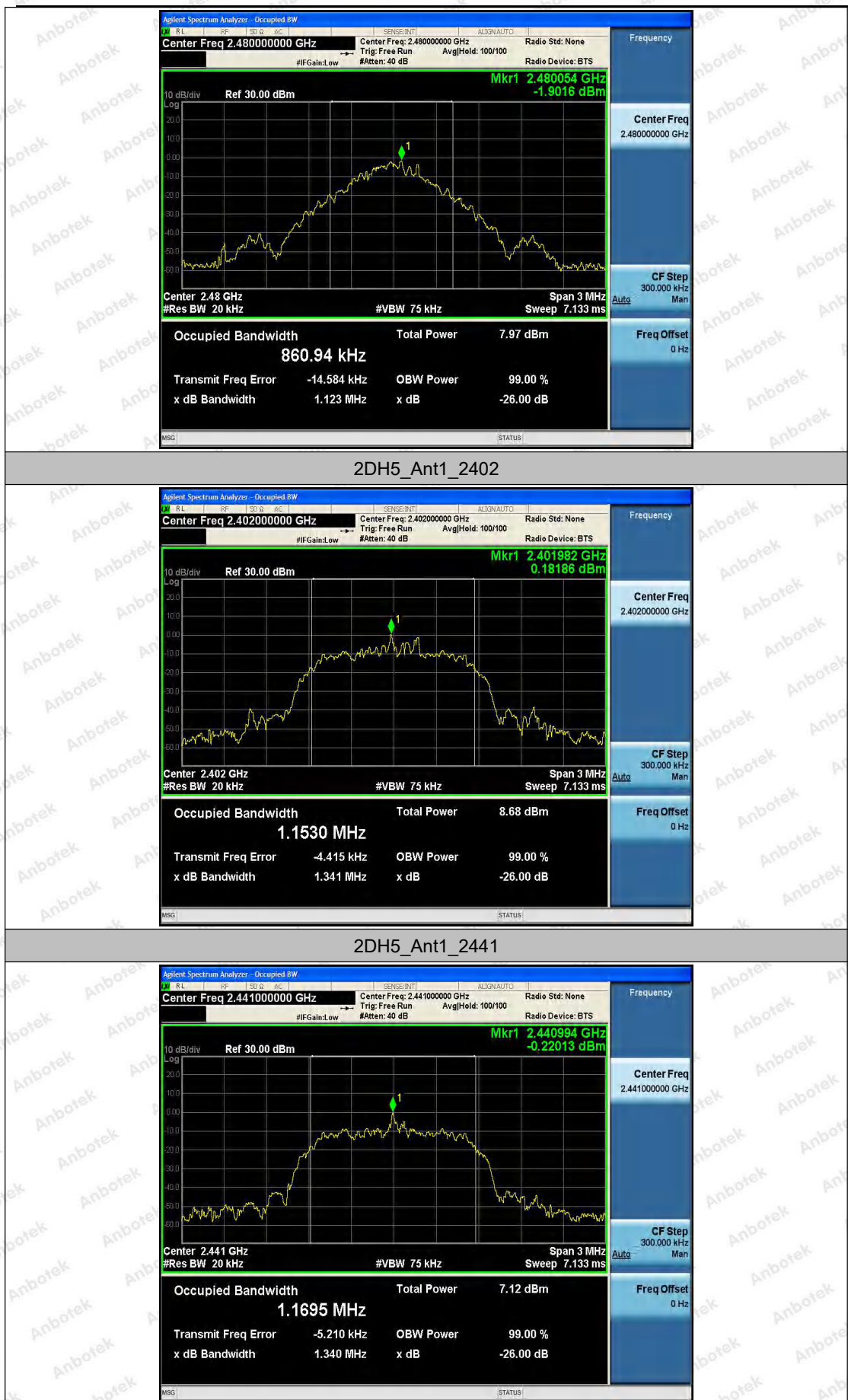
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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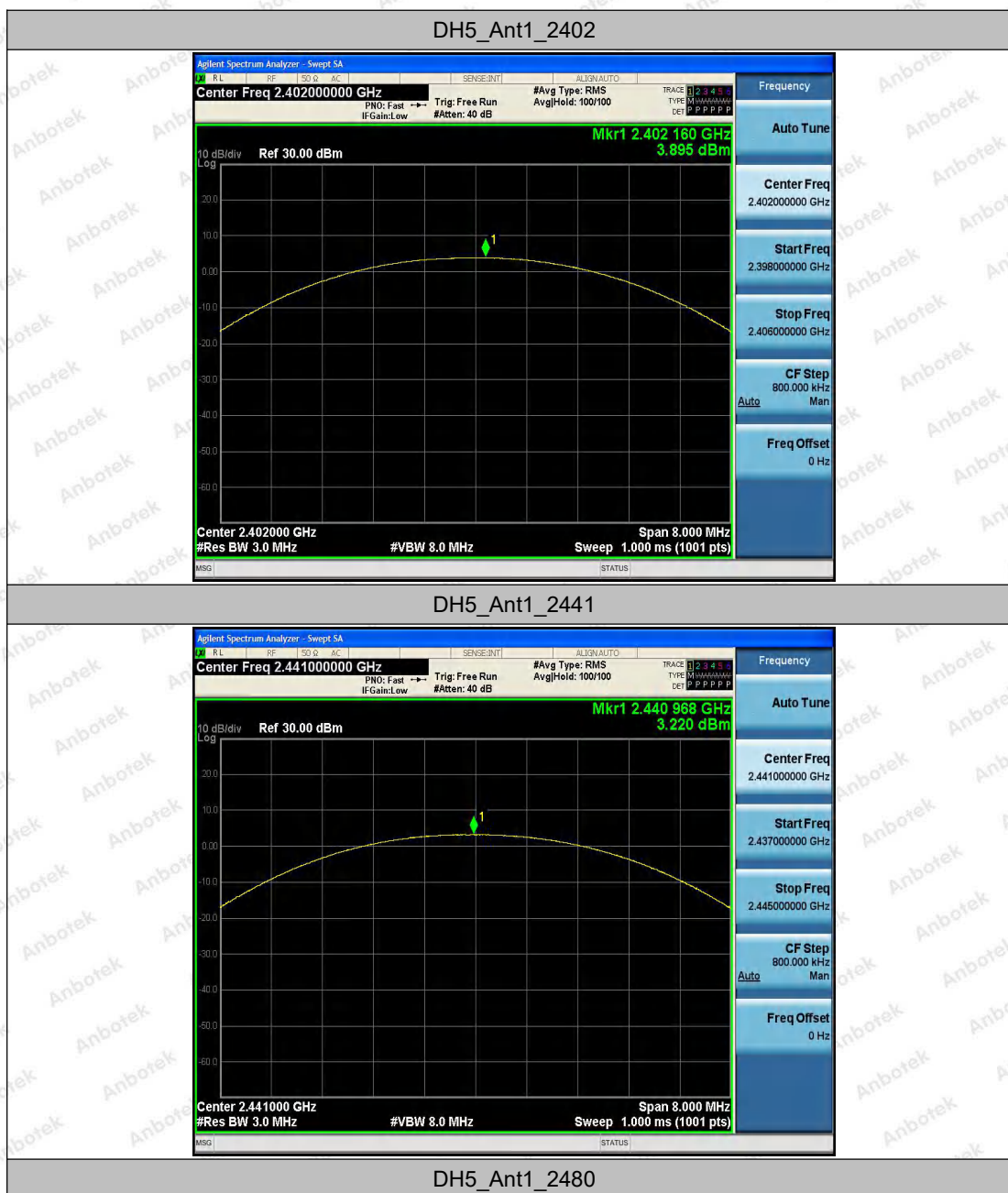
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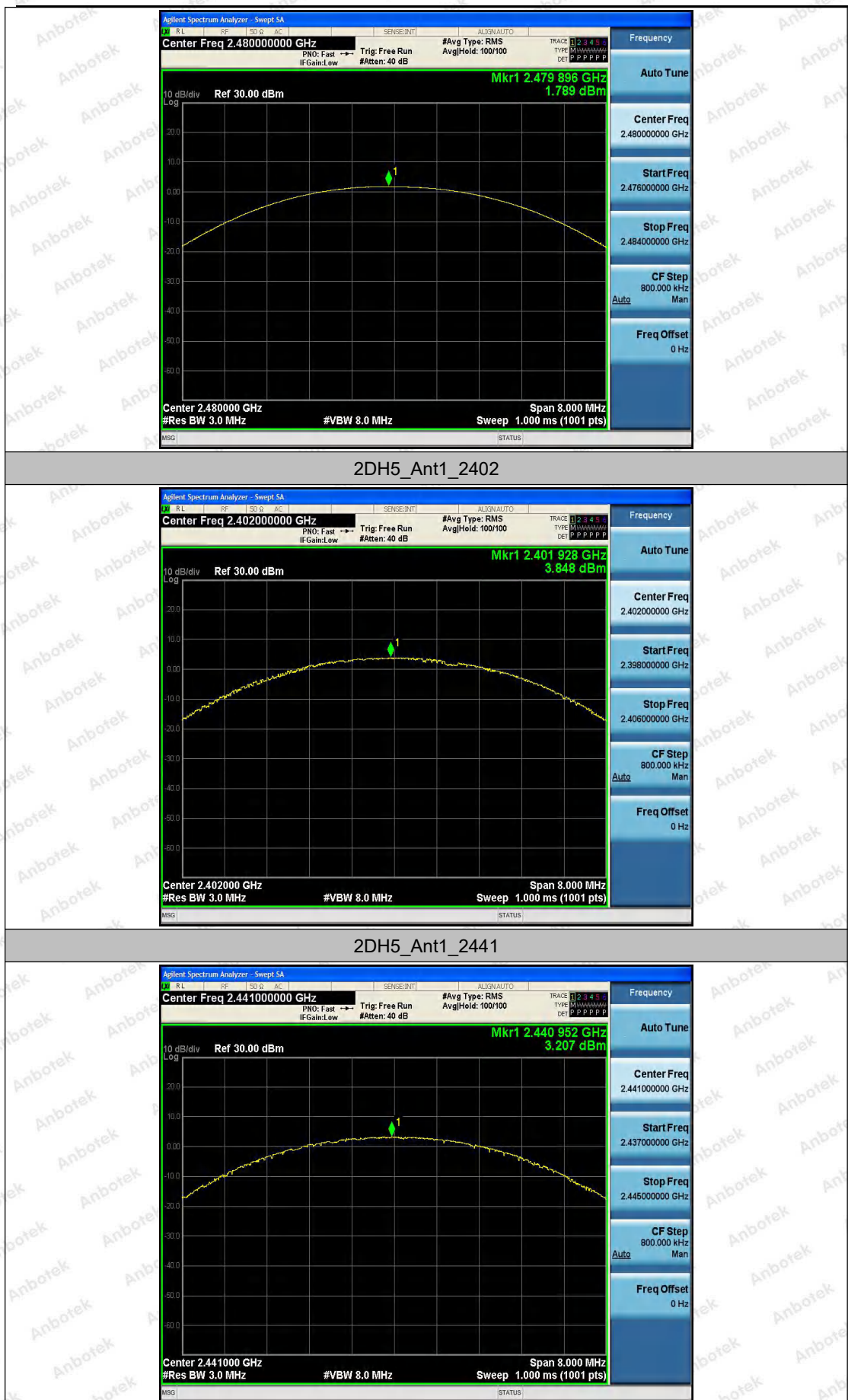
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.9	≤20.97	PASS
		2441	3.22	≤20.97	PASS
		2480	1.79	≤20.97	PASS
2DH5	Ant1	2402	3.85	≤20.97	PASS
		2441	3.21	≤20.97	PASS
		2480	1.78	≤20.97	PASS
3DH5	Ant1	2402	4.51	≤20.97	PASS
		2441	3.83	≤20.97	PASS
		2480	2.45	≤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	1.034	≥ 0.696	PASS
2DH5	Ant1	Hop	1	≥ 0.800	PASS
3DH5	Ant1	Hop	1.078	≥ 0.868	PASS

Test Graphs



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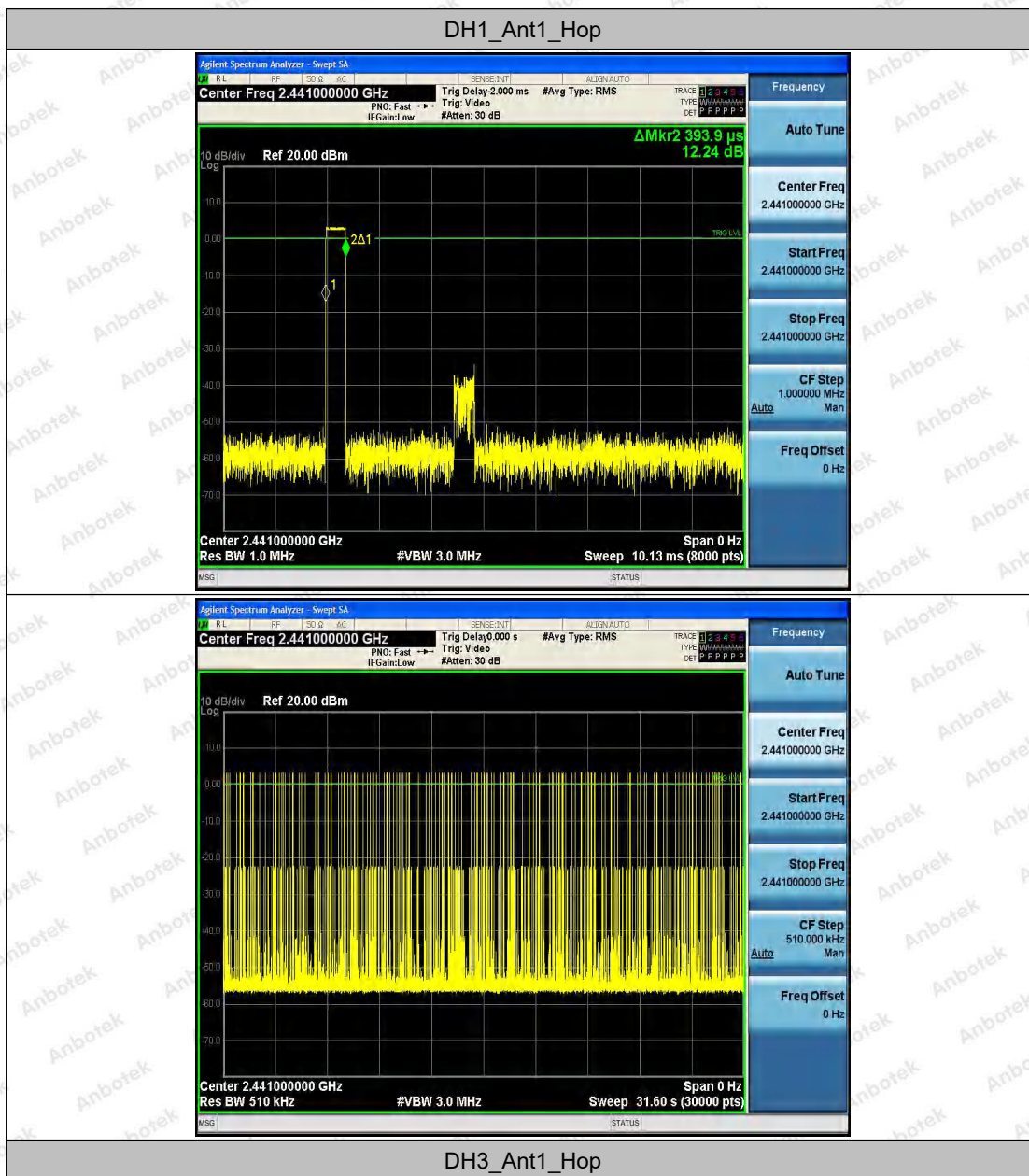
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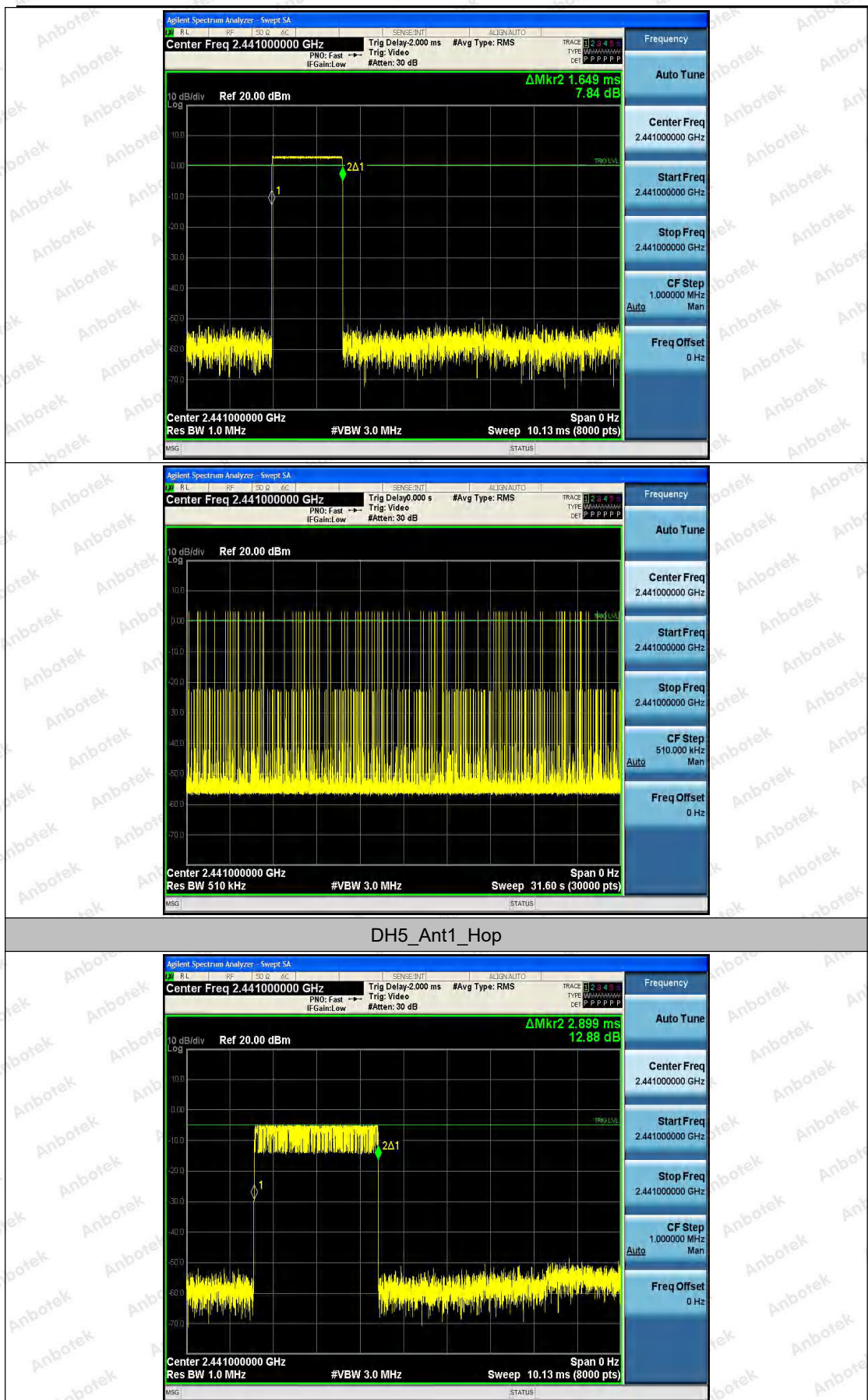
Appendix E: Time of occupancy

Test Result

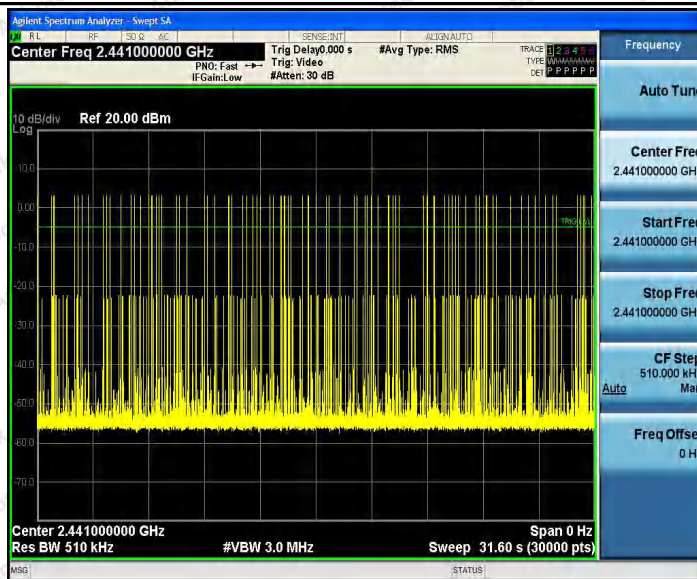
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	170	0.067	≤0.4	PASS
DH3	Ant1	Hop	1.65	95	0.157	≤0.4	PASS
DH5	Ant1	Hop	2.90	87	0.252	≤0.4	PASS
2DH1	Ant1	Hop	0.40	164	0.066	≤0.4	PASS
2DH3	Ant1	Hop	1.66	96	0.159	≤0.4	PASS
2DH5	Ant1	Hop	2.90	80	0.232	≤0.4	PASS
3DH1	Ant1	Hop	0.40	151	0.061	≤0.4	PASS
3DH3	Ant1	Hop	1.65	103	0.17	≤0.4	PASS
3DH5	Ant1	Hop	2.90	93	0.27	≤0.4	PASS

Test Graphs

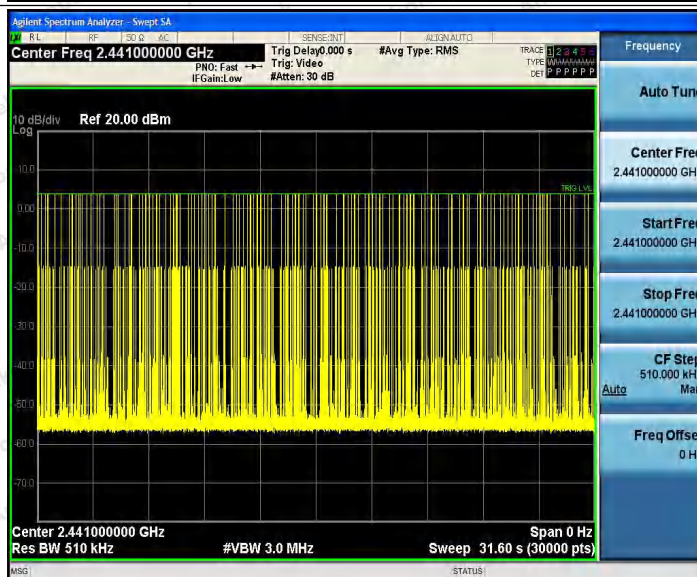
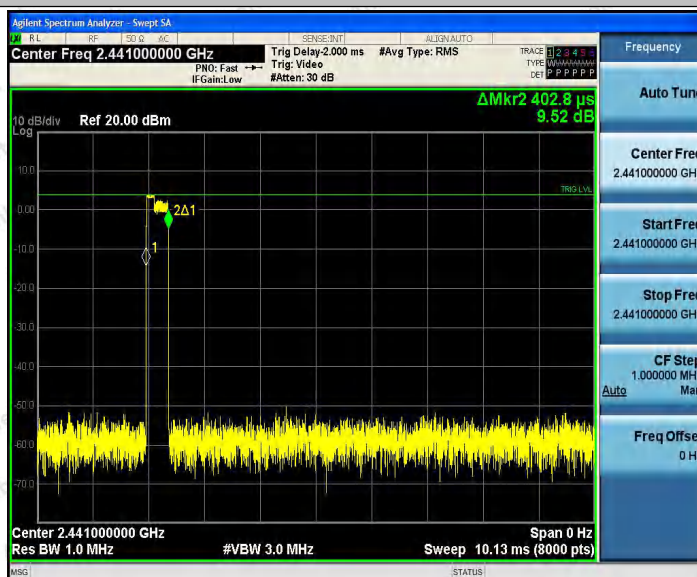




DH5_Ant1_Hop



2DH1_Ant1_Hop



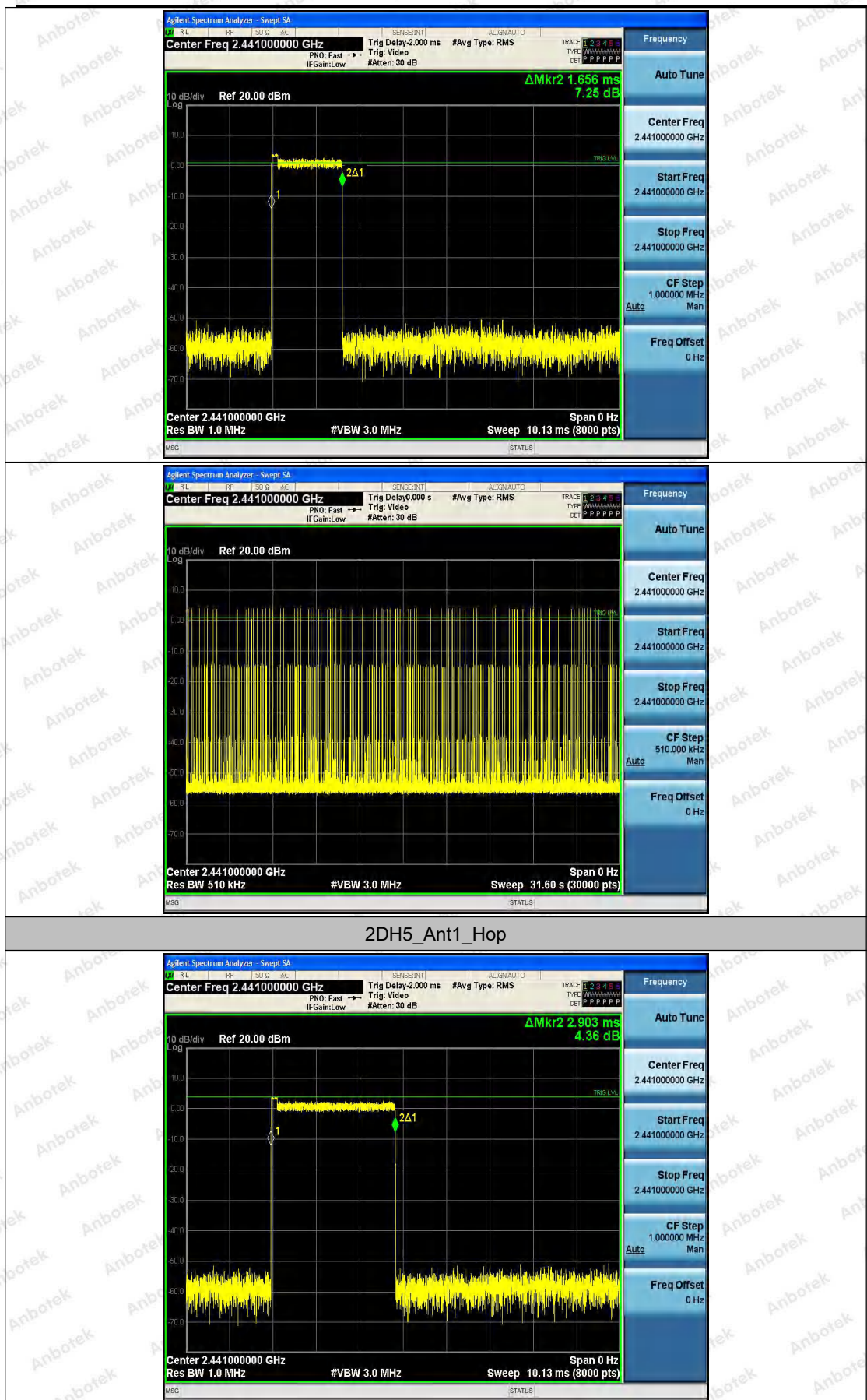
2DH3_Ant1_Hop

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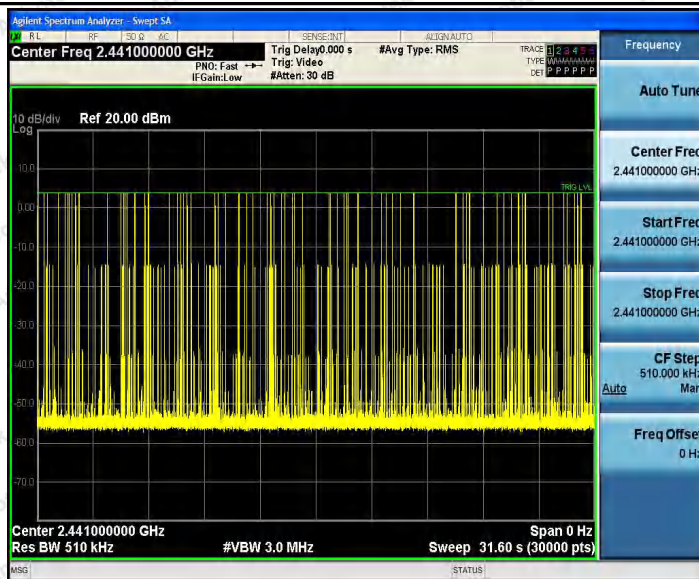
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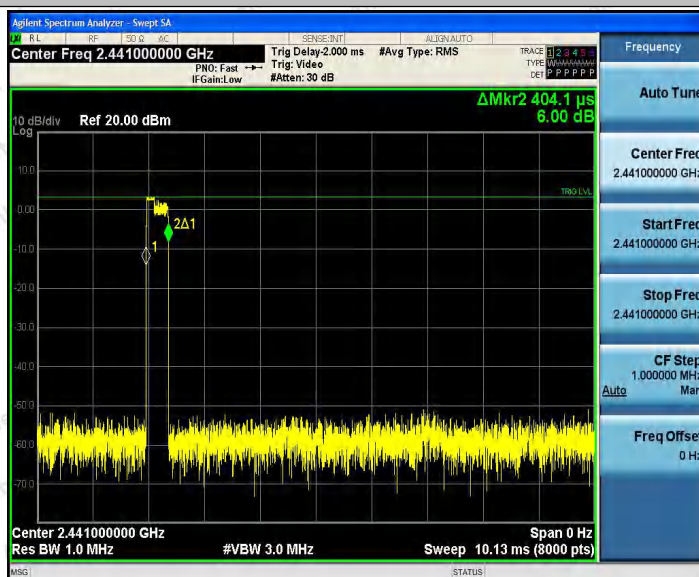
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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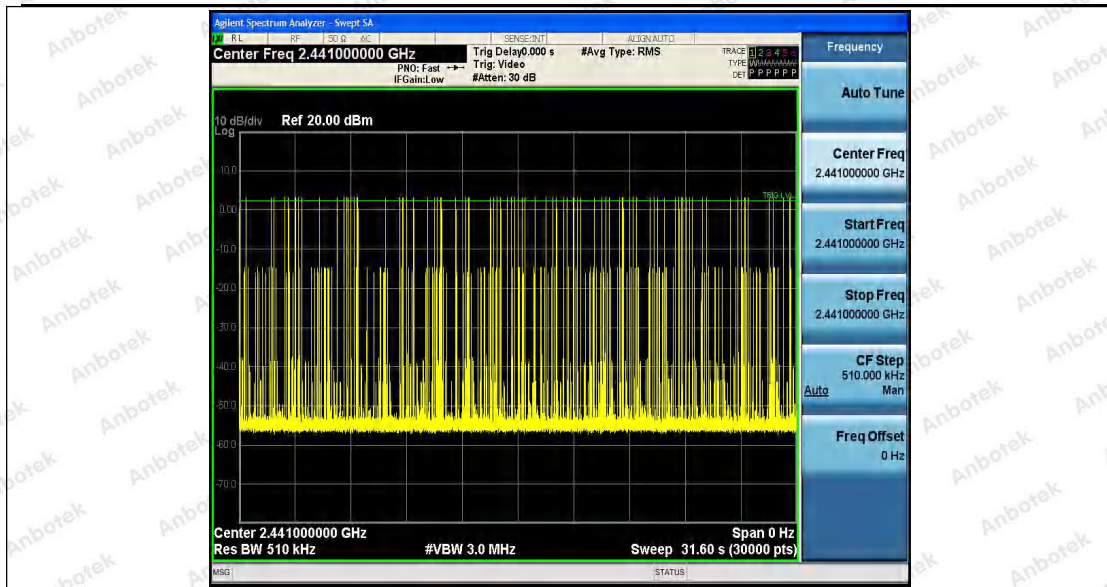


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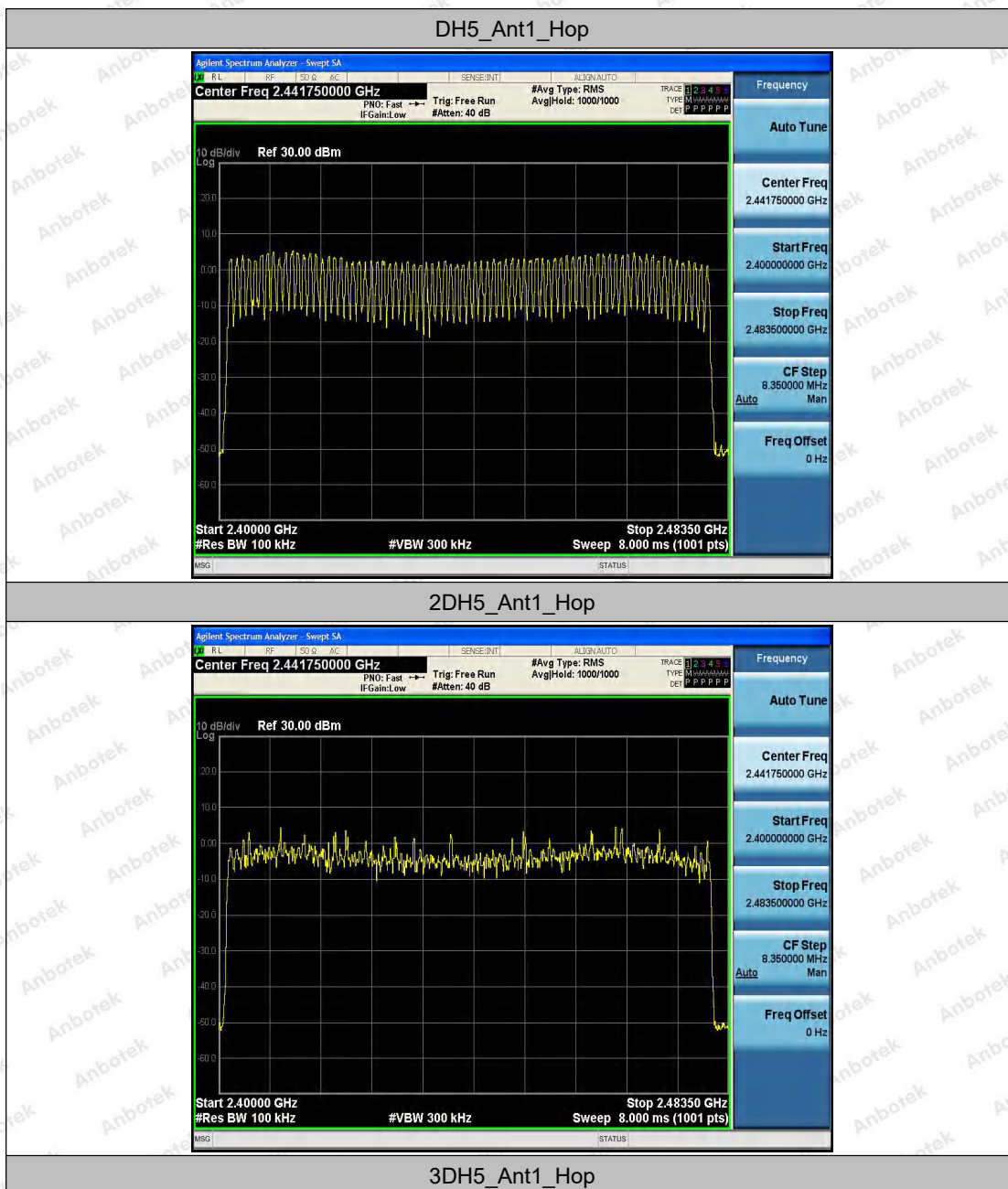
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Appendix F: Number of hopping channels

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

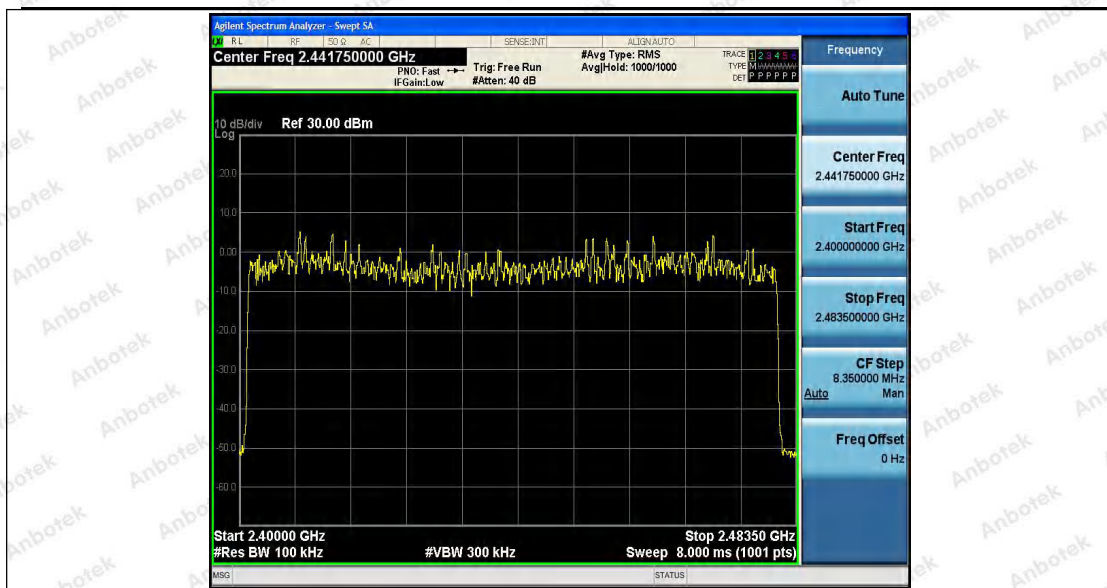


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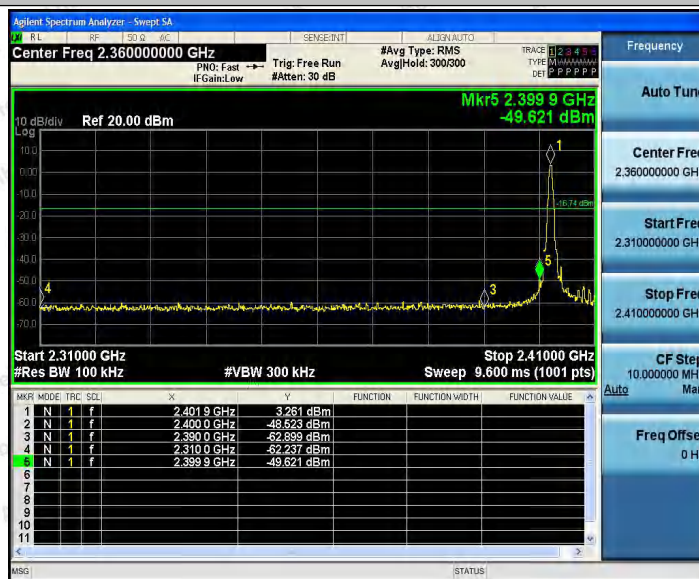
Appendix G: Band edge measurements

Test Result

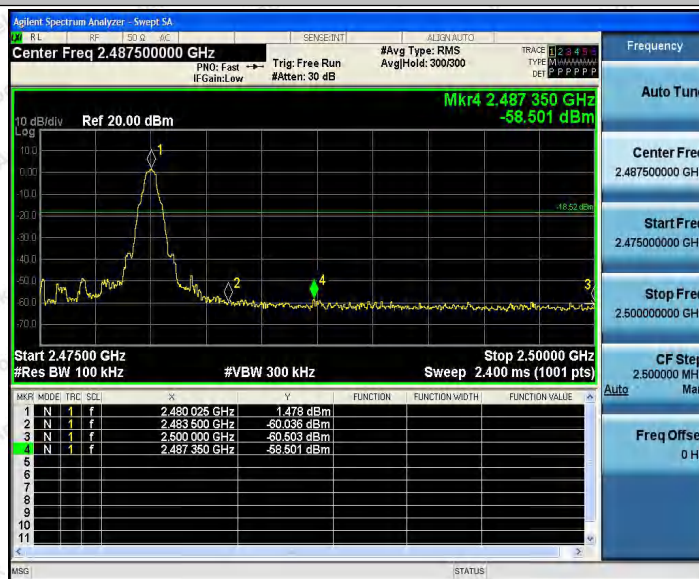
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.26	-49.62	≤-16.74	PASS
		High	2480	1.48	-58.5	≤-18.52	PASS
		Low	Hop	4.85	-58.62	≤-15.15	PASS
		High	Hop	2.56	-62.12	≤-17.45	PASS
2DH5	Ant1	Low	2402	3.32	-48.96	≤-16.68	PASS
		High	2480	1.04	-58.77	≤-18.96	PASS
		Low	Hop	-0.08	-58.22	≤-20.08	PASS
		High	Hop	-1.57	-62.37	≤-21.57	PASS
3DH5	Ant1	Low	2402	4.12	-52.66	≤-15.88	PASS
		High	2480	1.71	-58.8	≤-18.3	PASS
		Low	Hop	1.63	-59.93	≤-18.37	PASS
		High	Hop	-0.57	-61.53	≤-20.57	PASS

Test Graphs

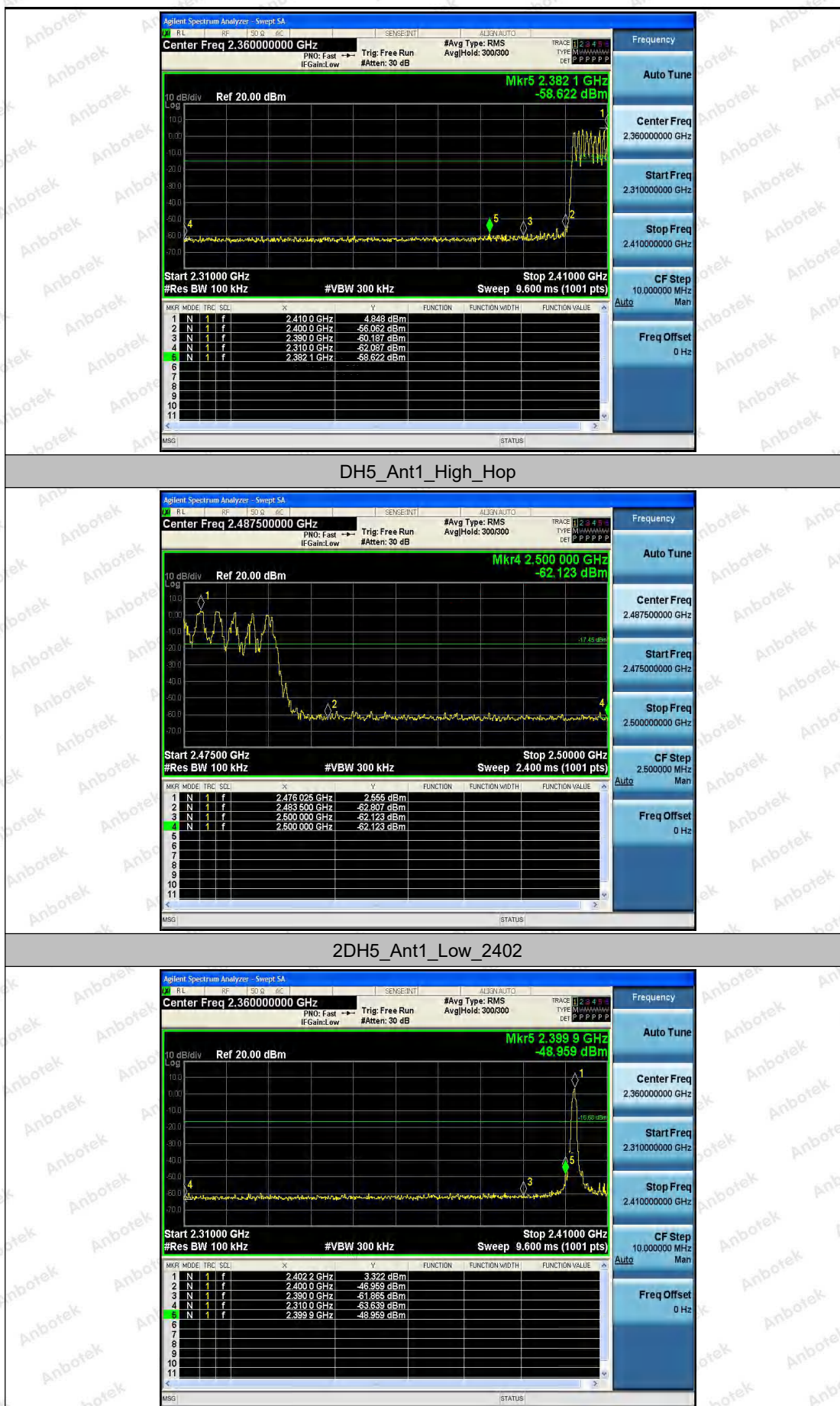
DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop



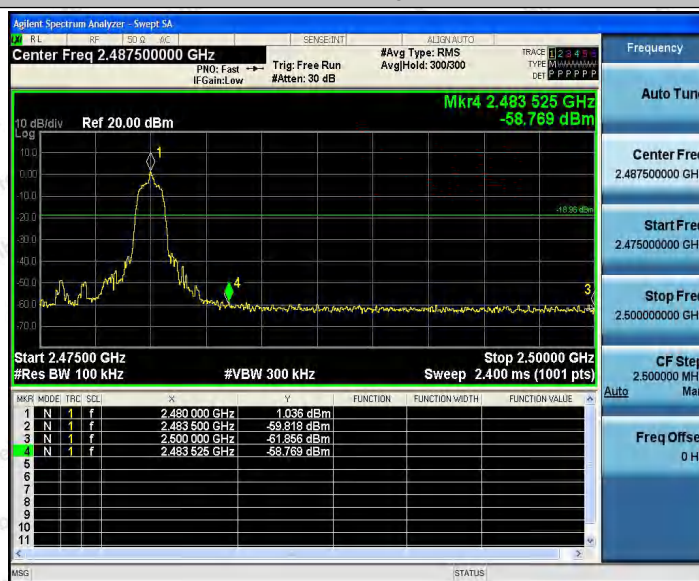
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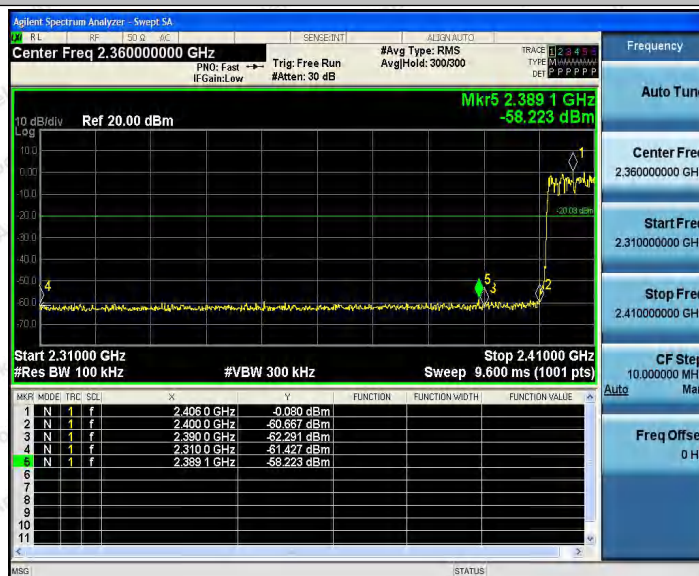
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



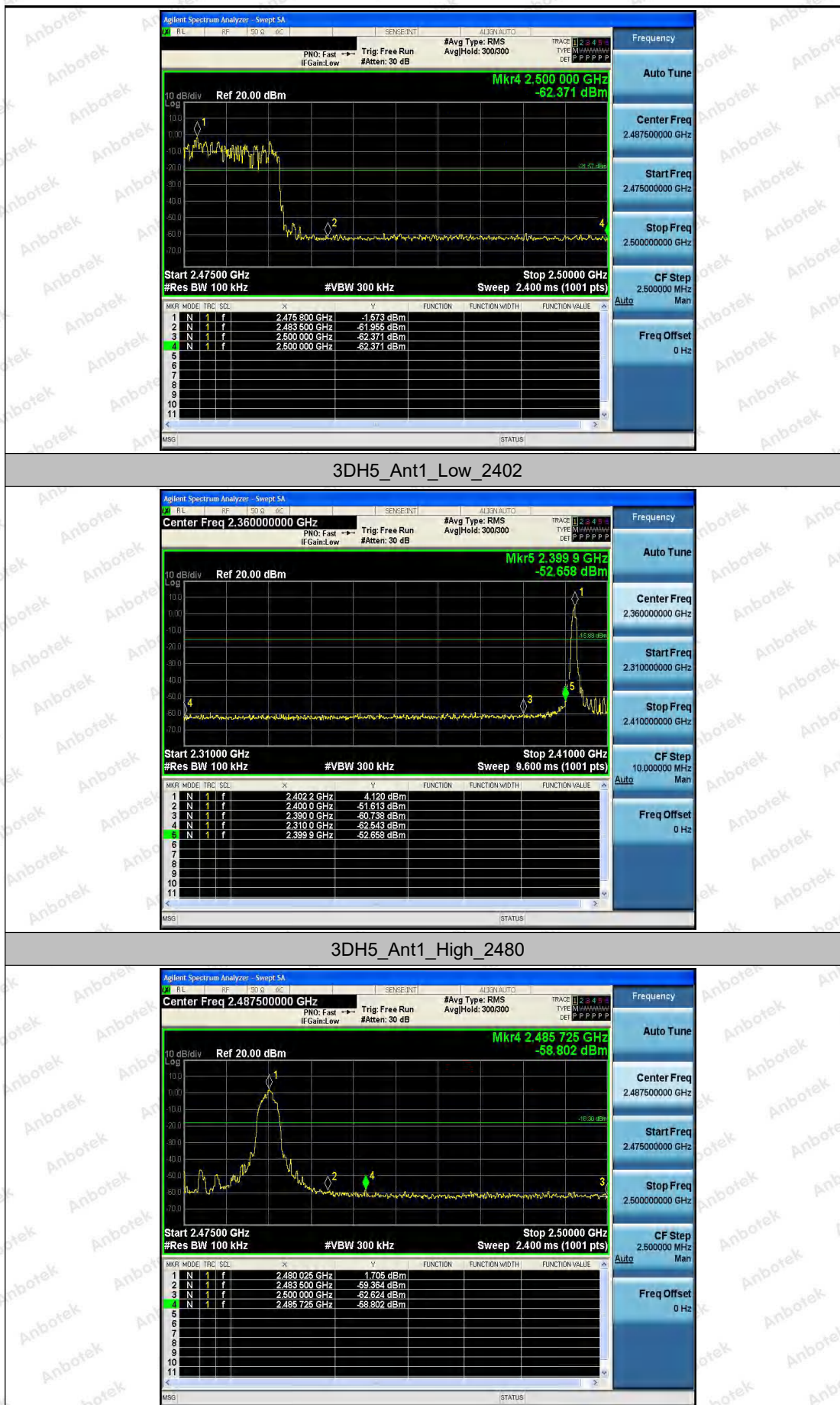
2DH5_Ant1_High_Hop

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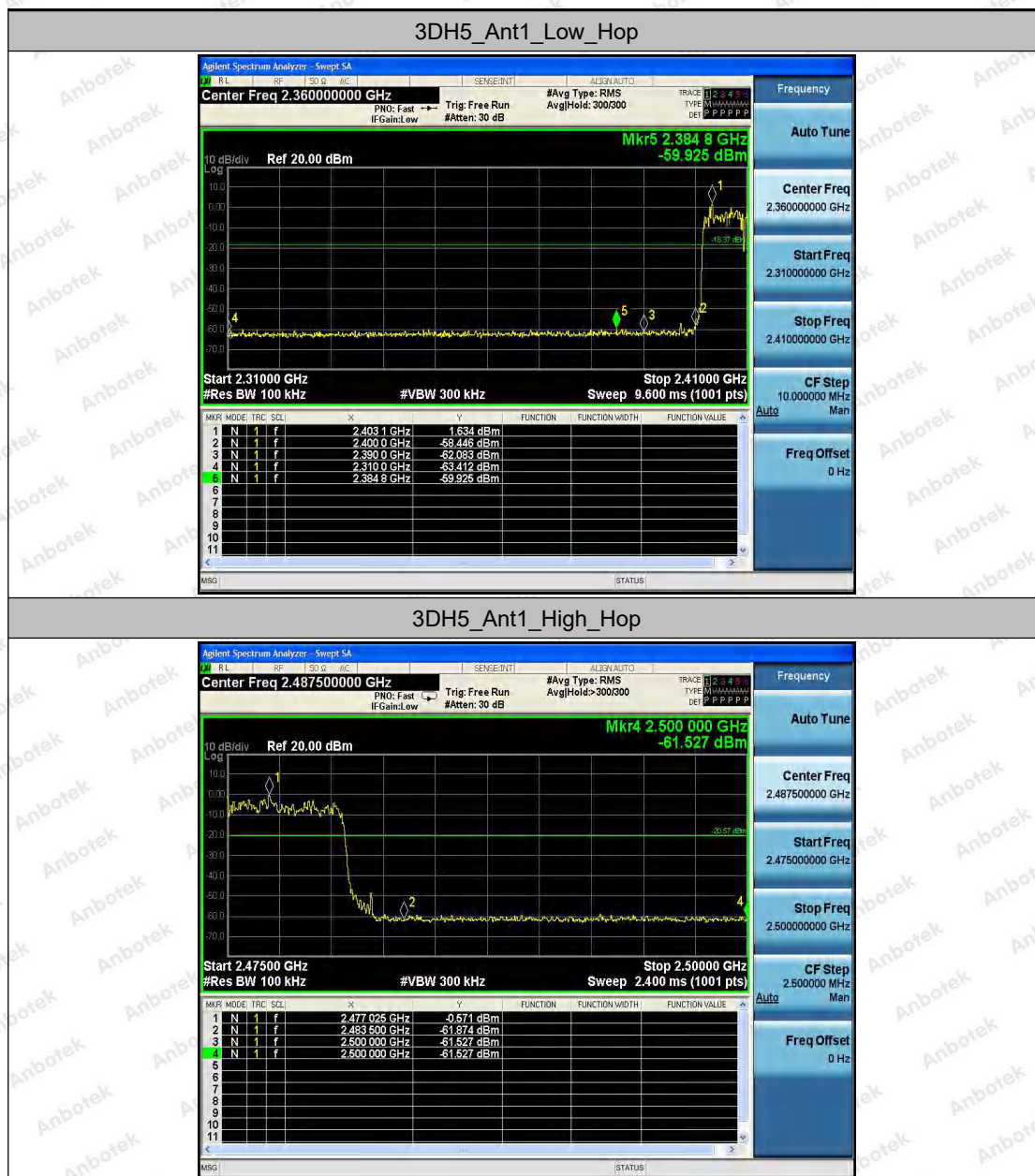


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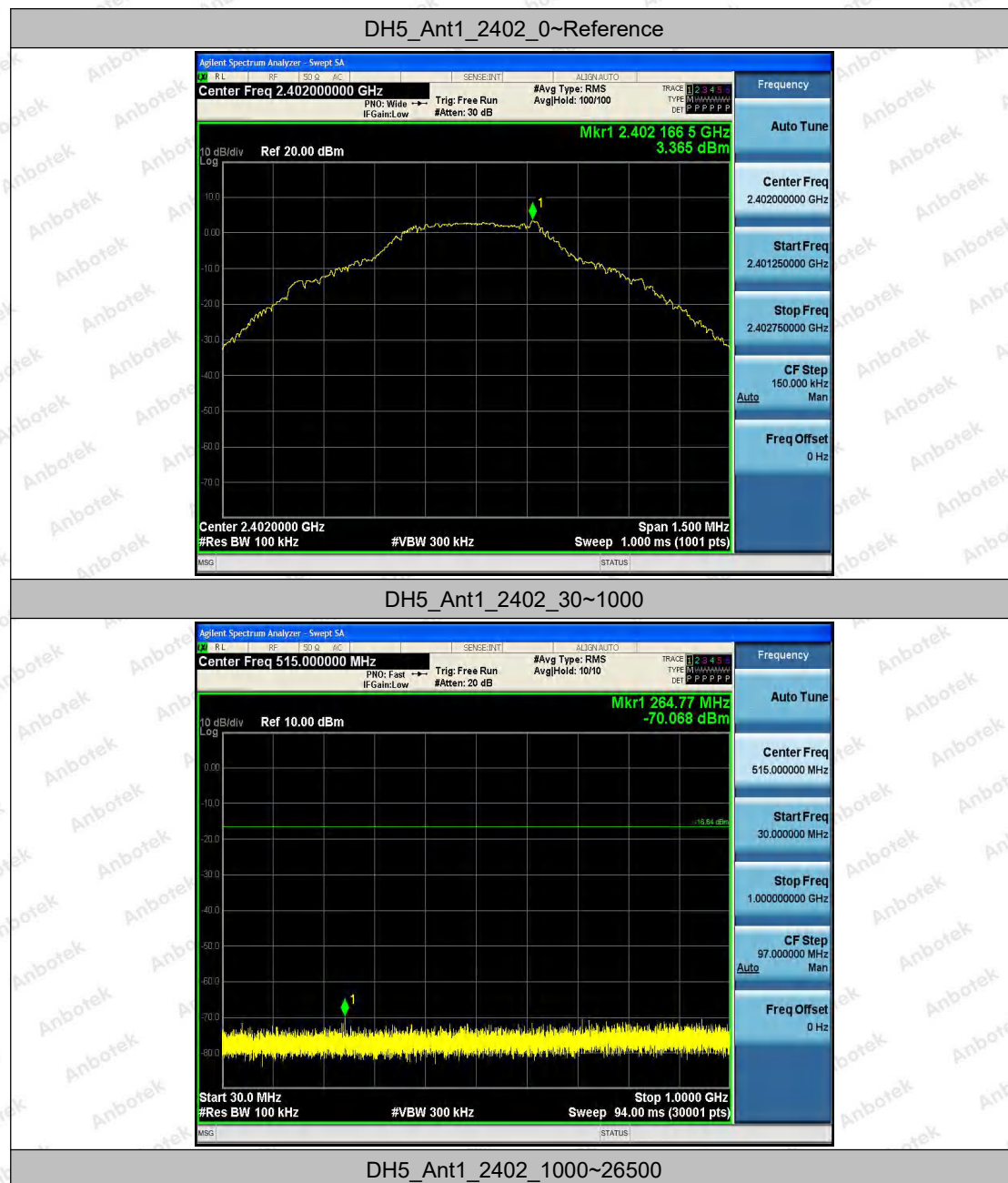
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.37	3.37	---	PASS
			30~1000	3.37	-70.07	≤-16.64	PASS
			1000~26500	3.37	-55.39	≤-16.64	PASS
		2441	Reference	2.37	2.37	---	PASS
			30~1000	2.37	-70.76	≤-17.63	PASS
			1000~26500	2.37	-52.27	≤-17.63	PASS
		2480	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-70.62	≤-19.02	PASS
			1000~26500	0.98	-55.73	≤-19.02	PASS
2DH5	Ant1	2402	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-70.77	≤-17.27	PASS
			1000~26500	2.73	-55.39	≤-17.27	PASS
		2441	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-70.91	≤-17.44	PASS
			1000~26500	2.56	-54.75	≤-17.44	PASS
		2480	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-70.53	≤-18.99	PASS
			1000~26500	1.01	-55.23	≤-18.99	PASS
3DH5	Ant1	2402	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-69.56	≤-16.68	PASS
			1000~26500	3.32	-55.63	≤-16.68	PASS
		2441	Reference	3.09	3.09	---	PASS
			30~1000	3.09	-70.06	≤-16.91	PASS
			1000~26500	3.09	-56.05	≤-16.91	PASS
		2480	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-70.13	≤-20.18	PASS
			1000~26500	-0.18	-55.86	≤-20.18	PASS

Test Graphs

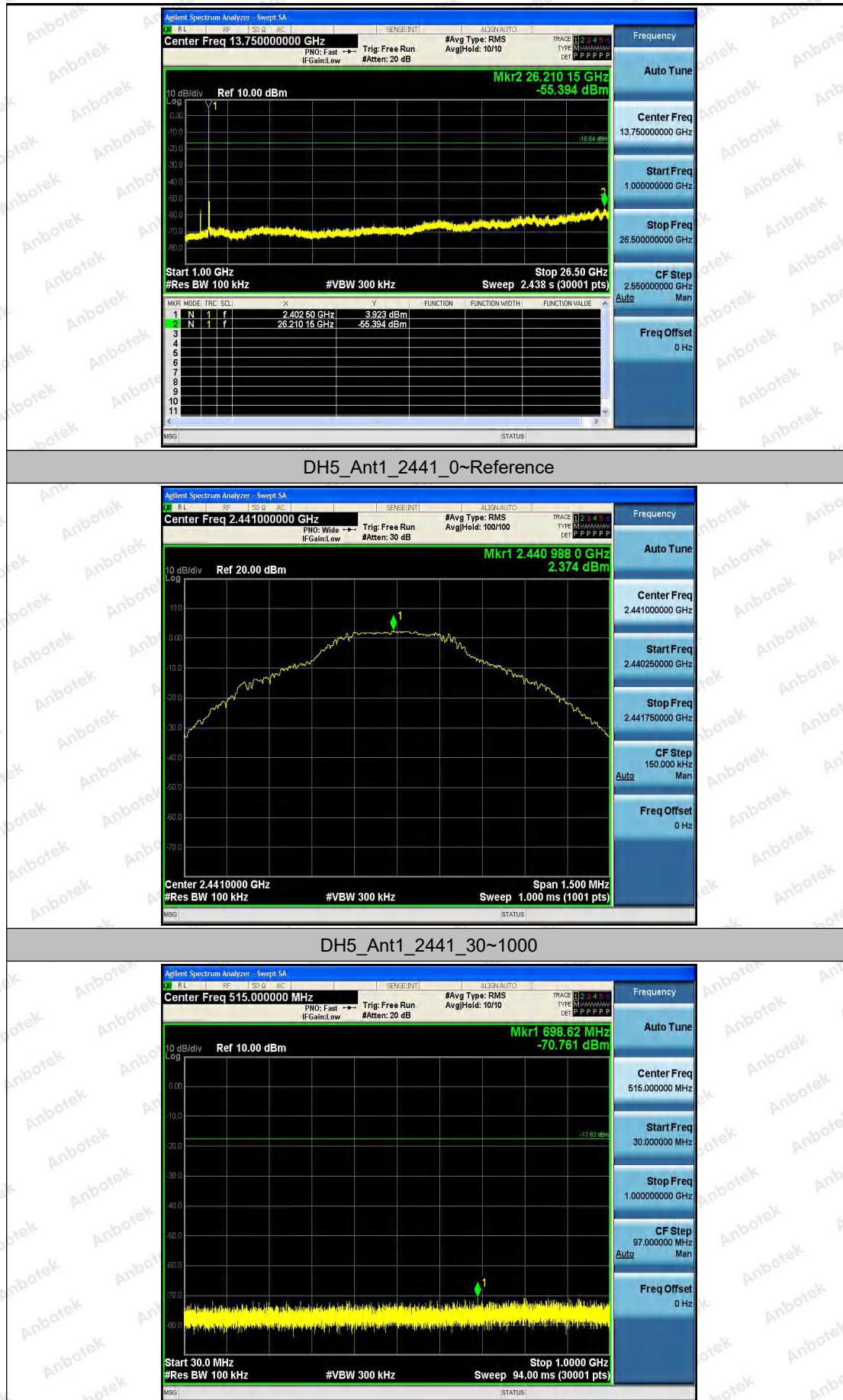


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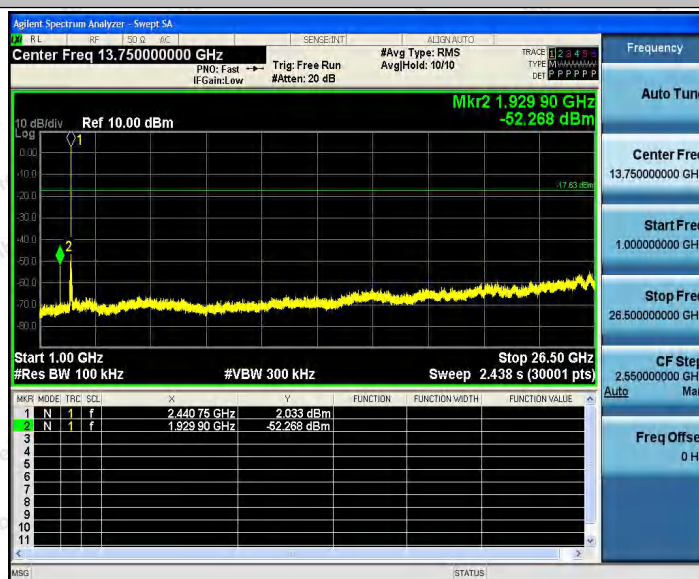
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



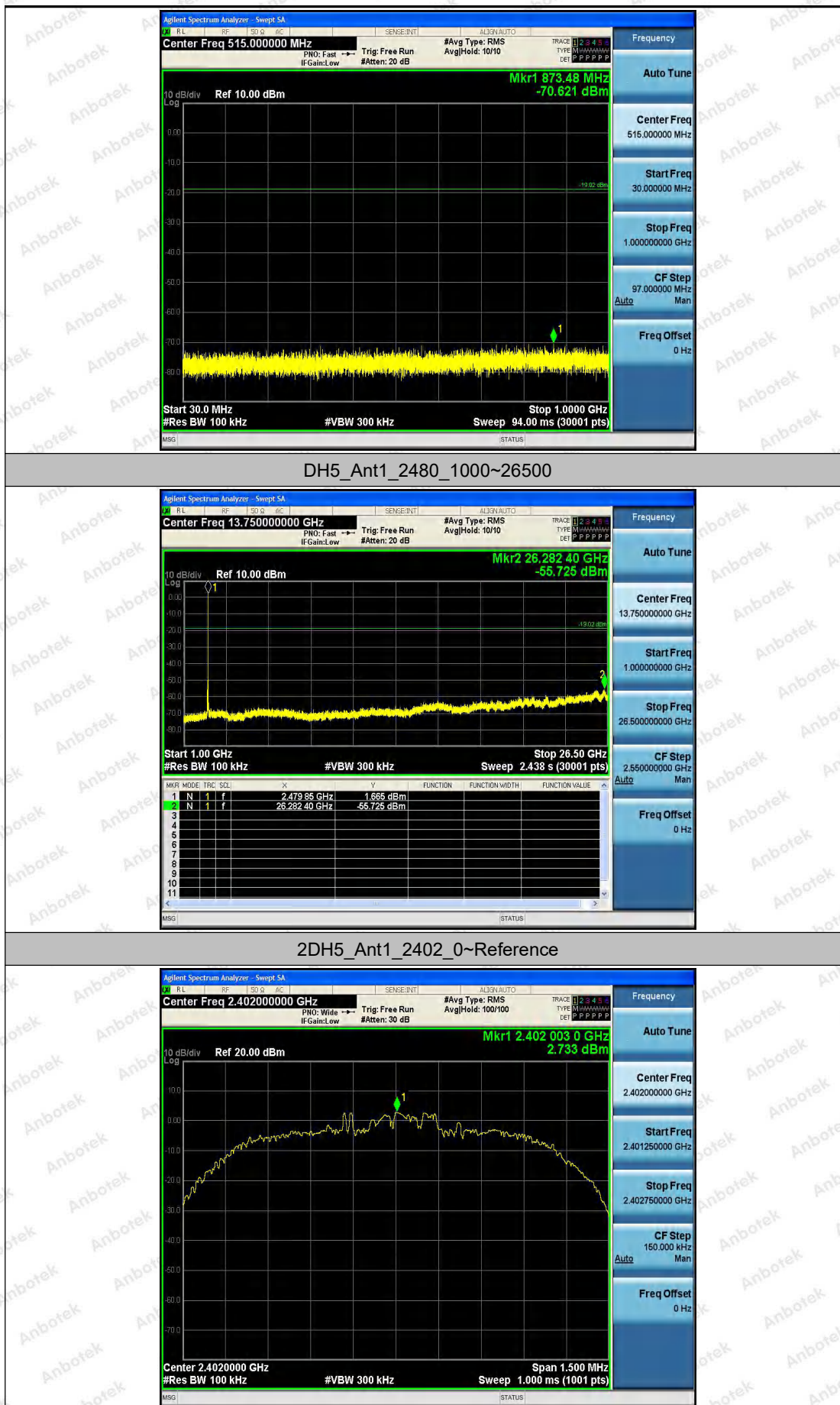
DH5_Ant1_2480_30~1000

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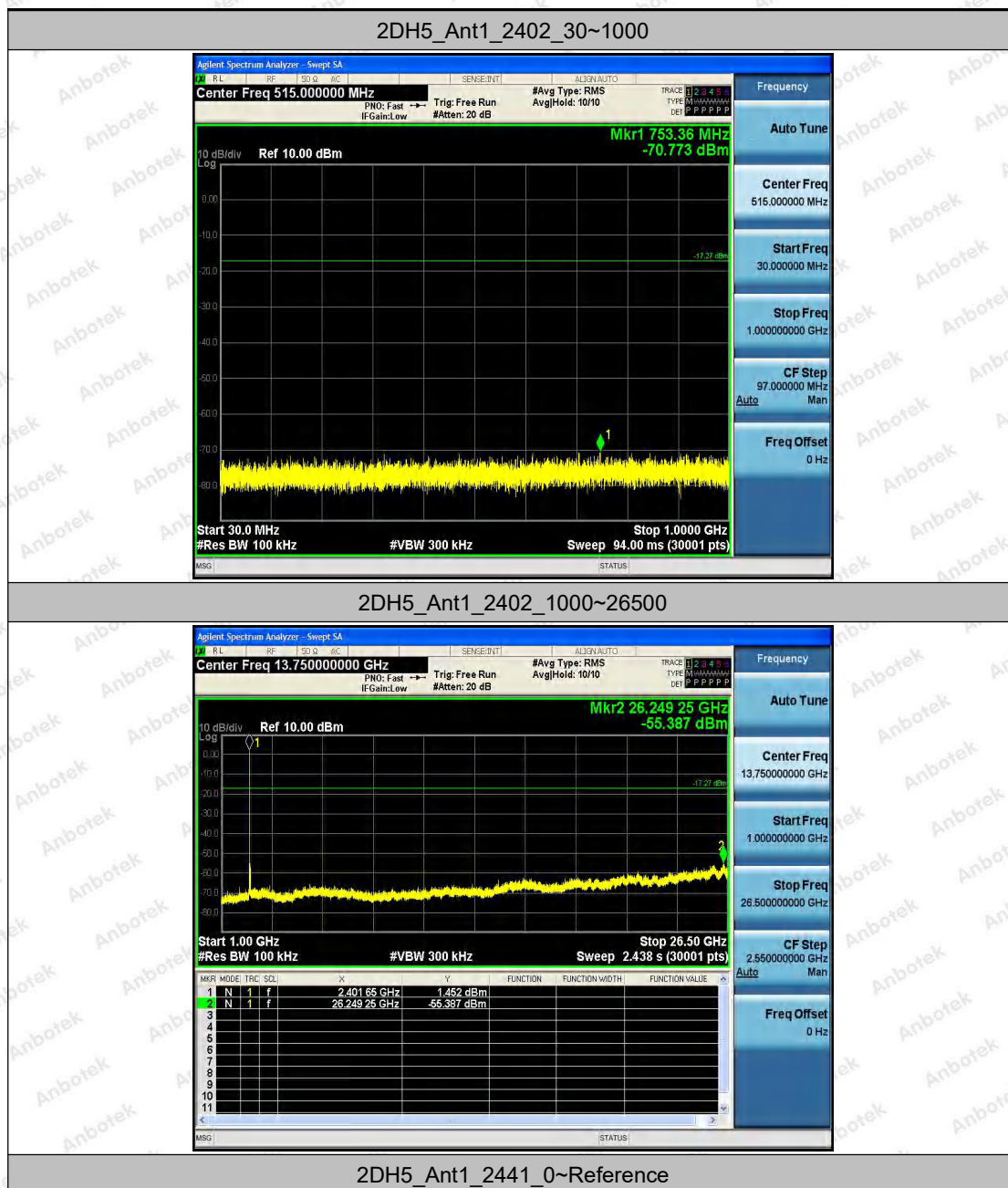


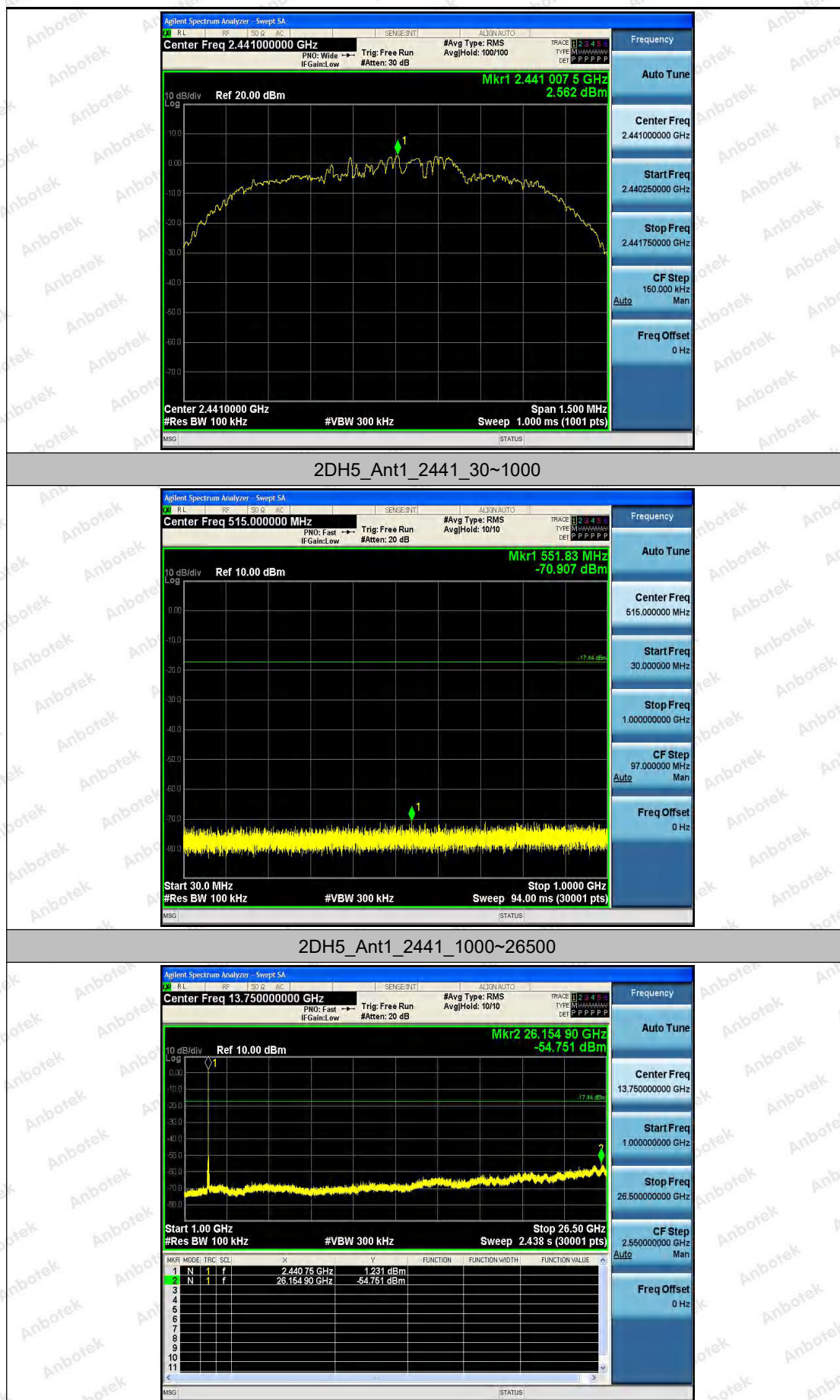
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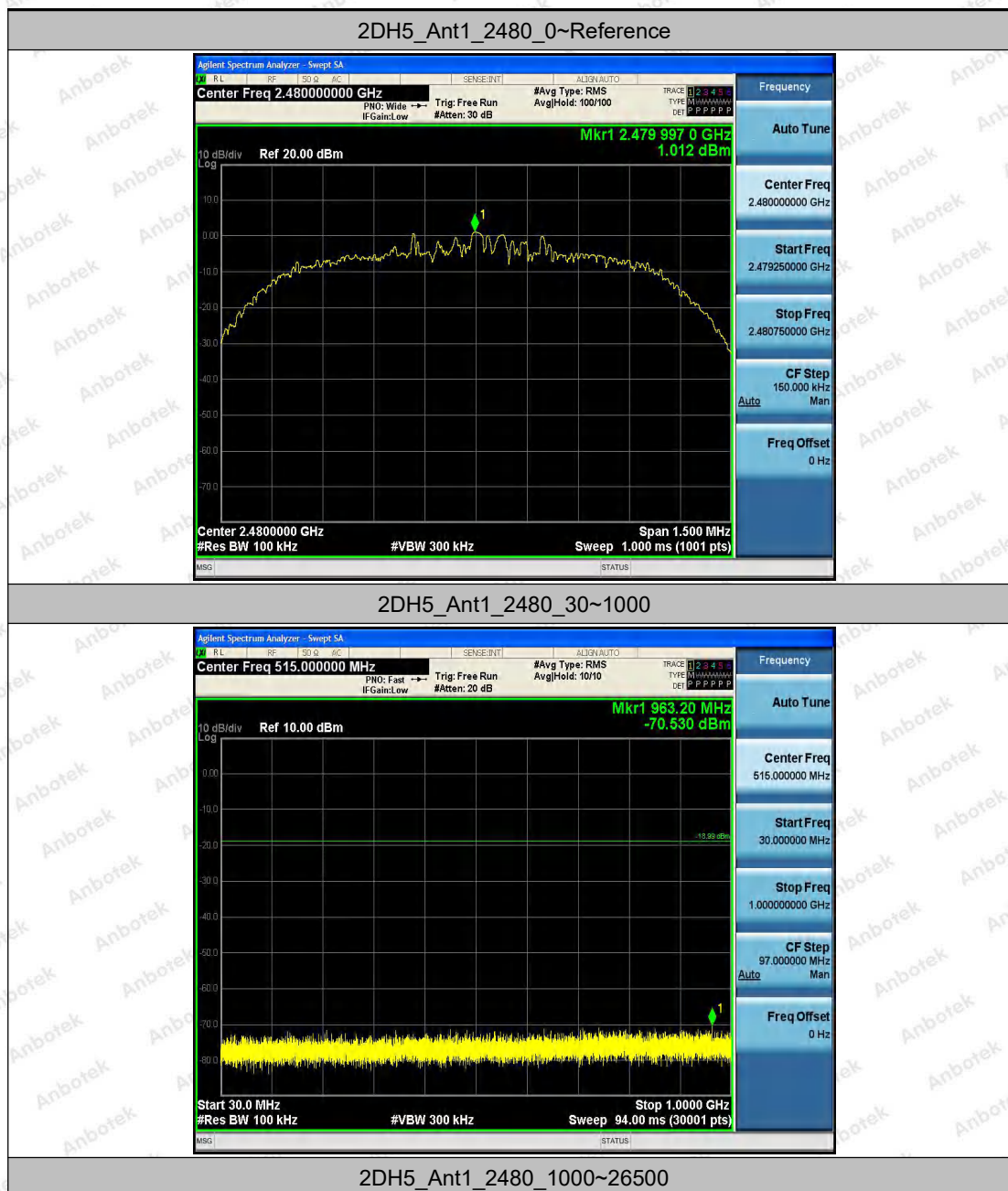


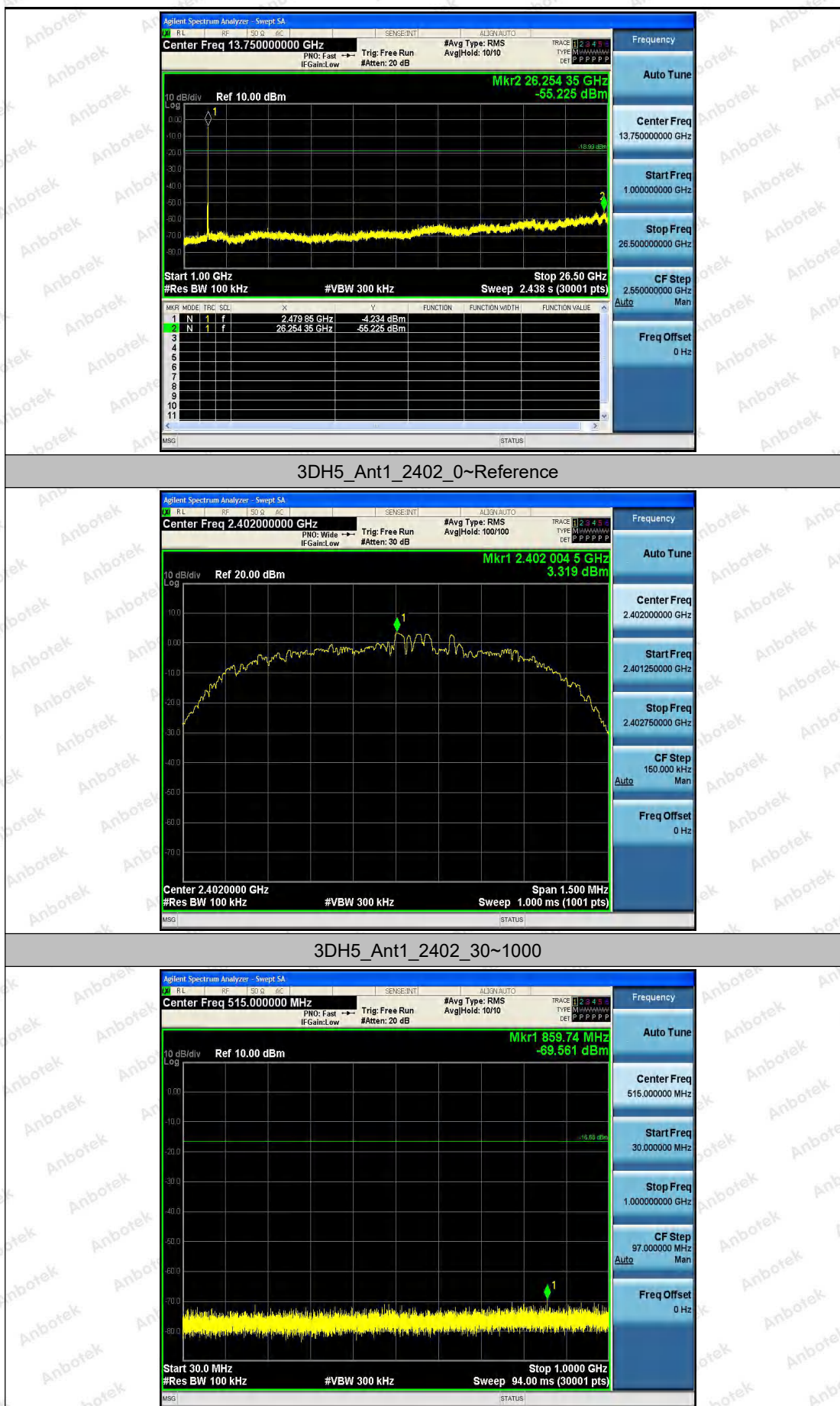
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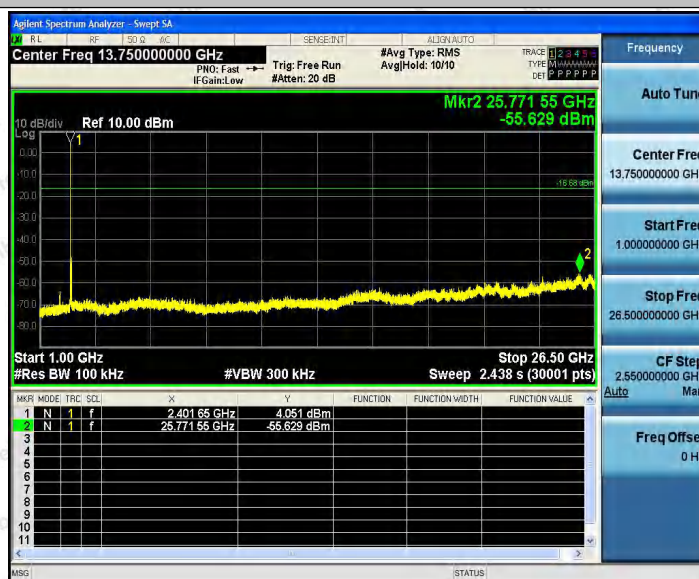
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



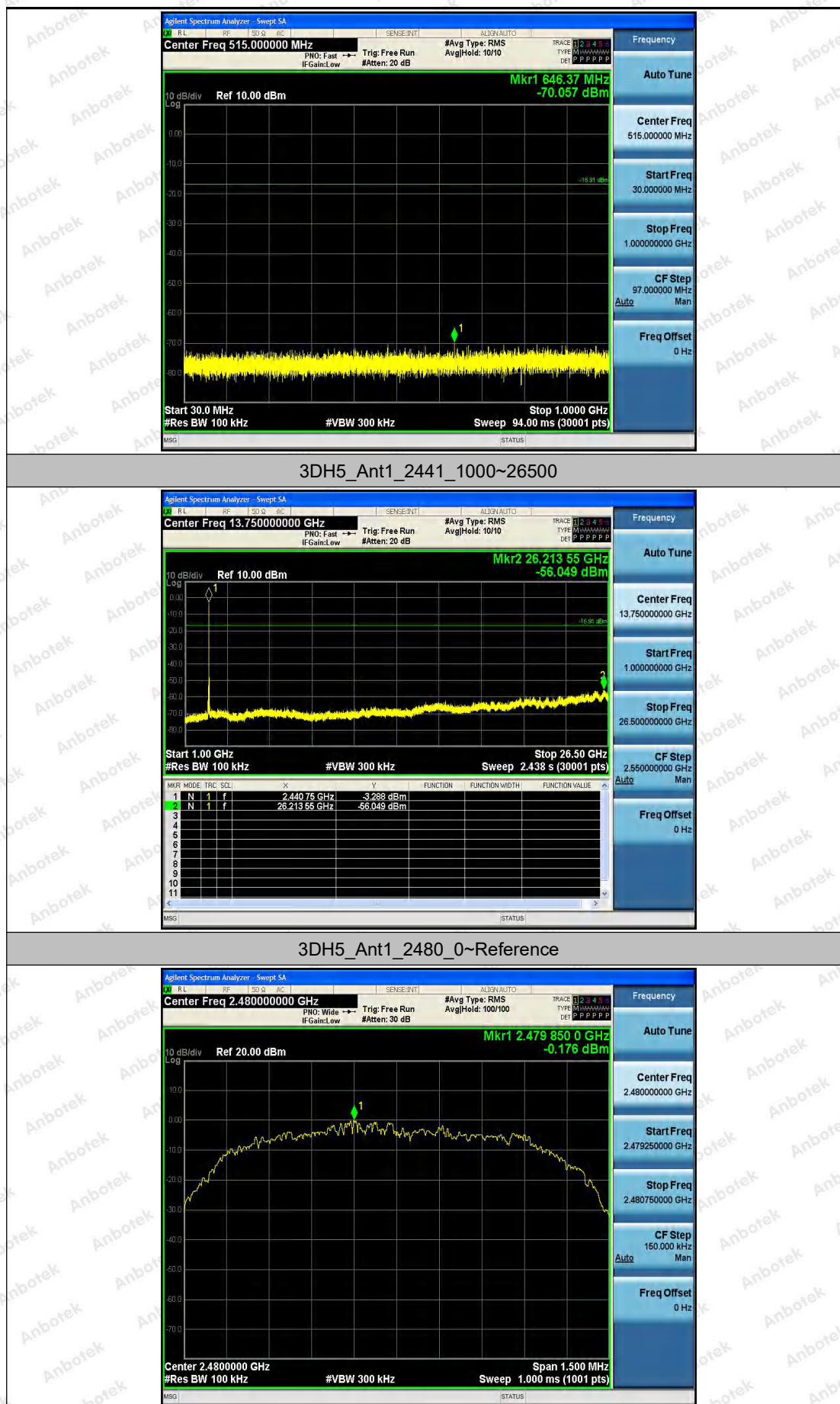
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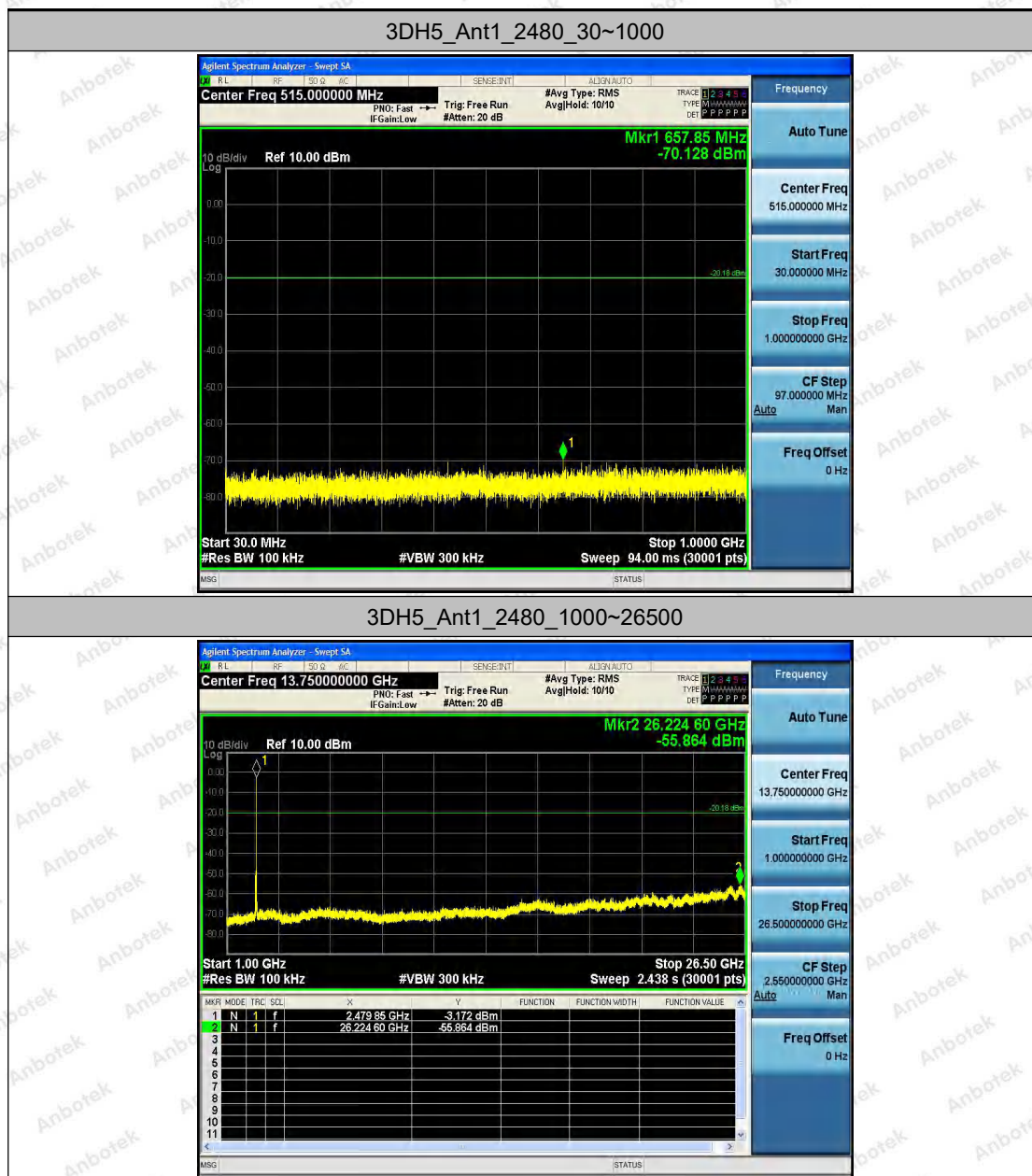


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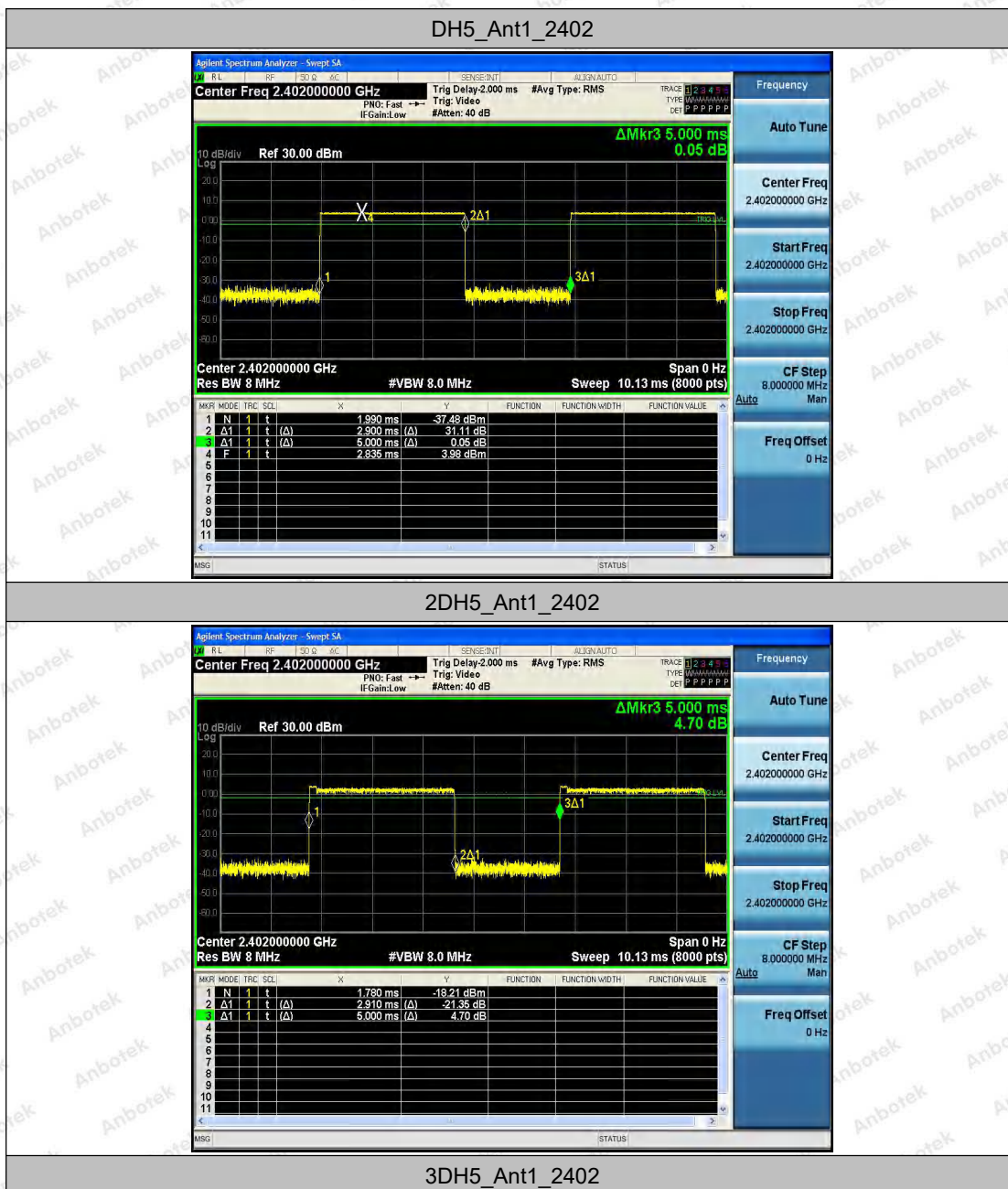
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	5.00	0.580 0	58.00	2.37	---	PASS
2DH5	Ant1	2402	2.91	5.00	0.582 0	58.20	2.35	---	PASS
3DH5	Ant1	2402	2.91	5.00	0.582 0	58.20	2.35	---	PASS

Test Graphs

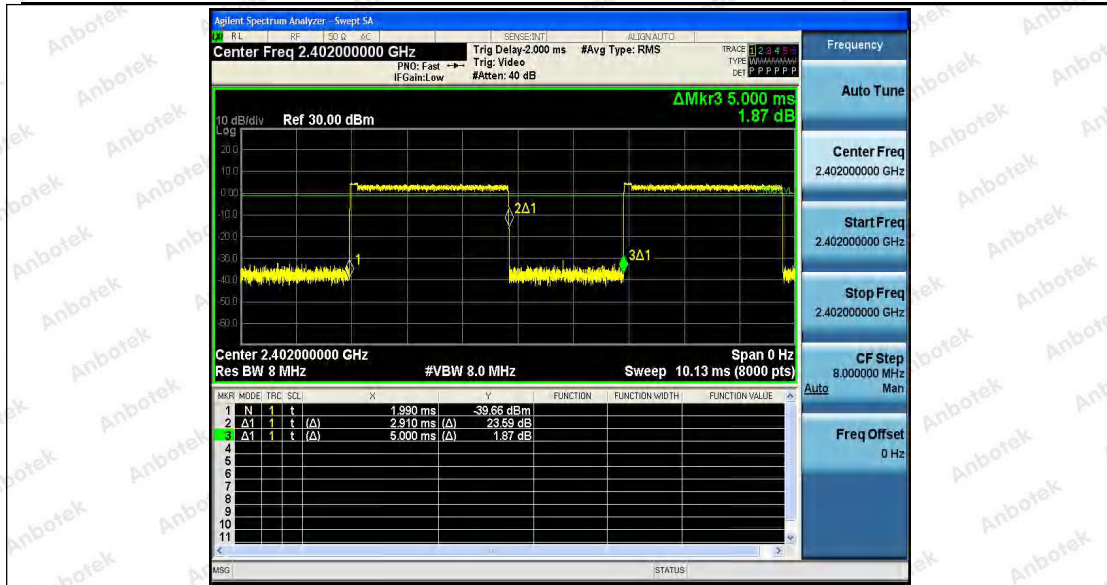


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