

Appendix Test Data

Report No.:	18220WC20117201	Test Sample No.:	1-2-2
Start Test Date:	2022.6.1	Finish Test Date:	2022.6.6
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.2 %
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	0.957	2401.532	2402.489	---	PASS
		2441	0.948	2440.529	2441.477	---	PASS
		2480	1.038	2479.478	2480.516	---	PASS
2DH5	Ant1	2402	1.182	2401.397	2402.579	---	PASS
		2441	1.332	2440.328	2441.660	---	PASS
		2480	1.281	2479.361	2480.642	---	PASS
3DH5	Ant1	2402	1.236	2401.364	2402.600	---	PASS
		2441	1.236	2440.364	2441.600	---	PASS
		2480	1.179	2479.409	2480.588	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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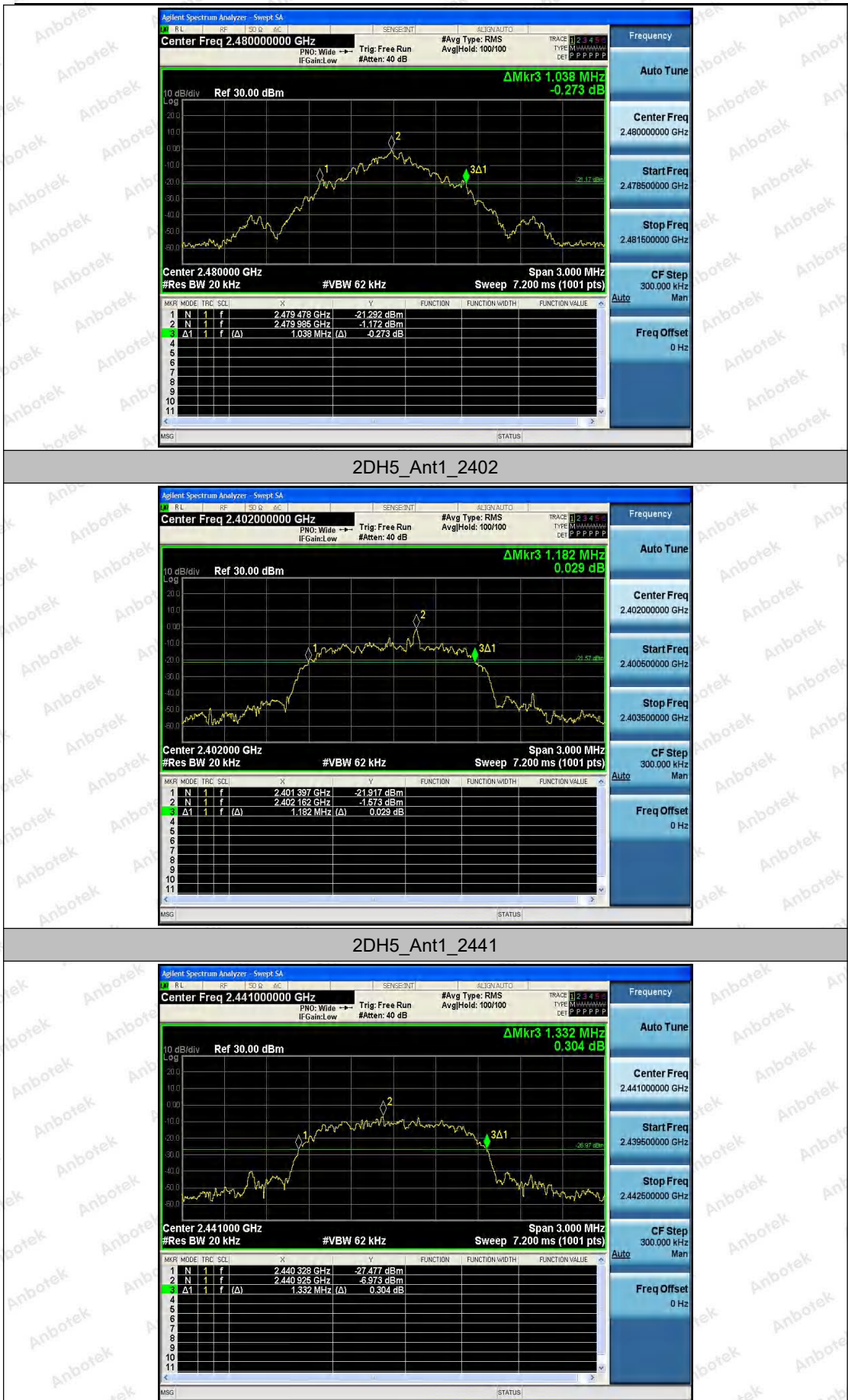
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2DH5_Ant1_2480



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	0.88542	2401.551	2402.436	---	PASS
		2441	0.87210	2440.552	2441.424	---	PASS
		2480	0.85160	2479.565	2480.416	---	PASS
2DH5	Ant1	2402	1.1546	2401.416	2402.571	---	PASS
		2441	1.1642	2440.410	2441.574	---	PASS
		2480	1.1570	2479.415	2480.572	---	PASS
3DH5	Ant1	2402	1.1711	2401.405	2402.576	---	PASS
		2441	1.1808	2440.400	2441.581	---	PASS
		2480	1.1976	2479.388	2480.586	---	PASS

Test Graphs



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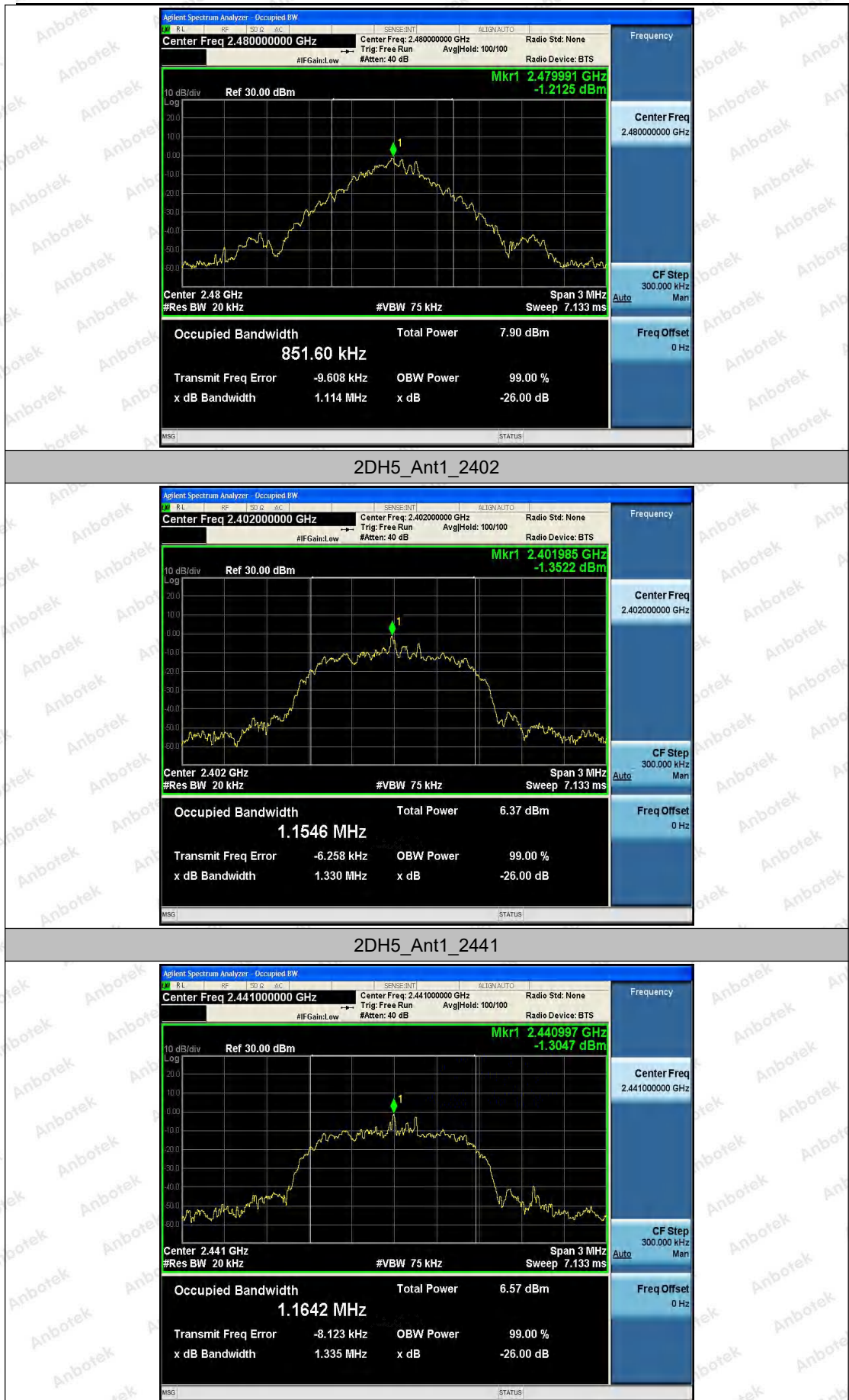
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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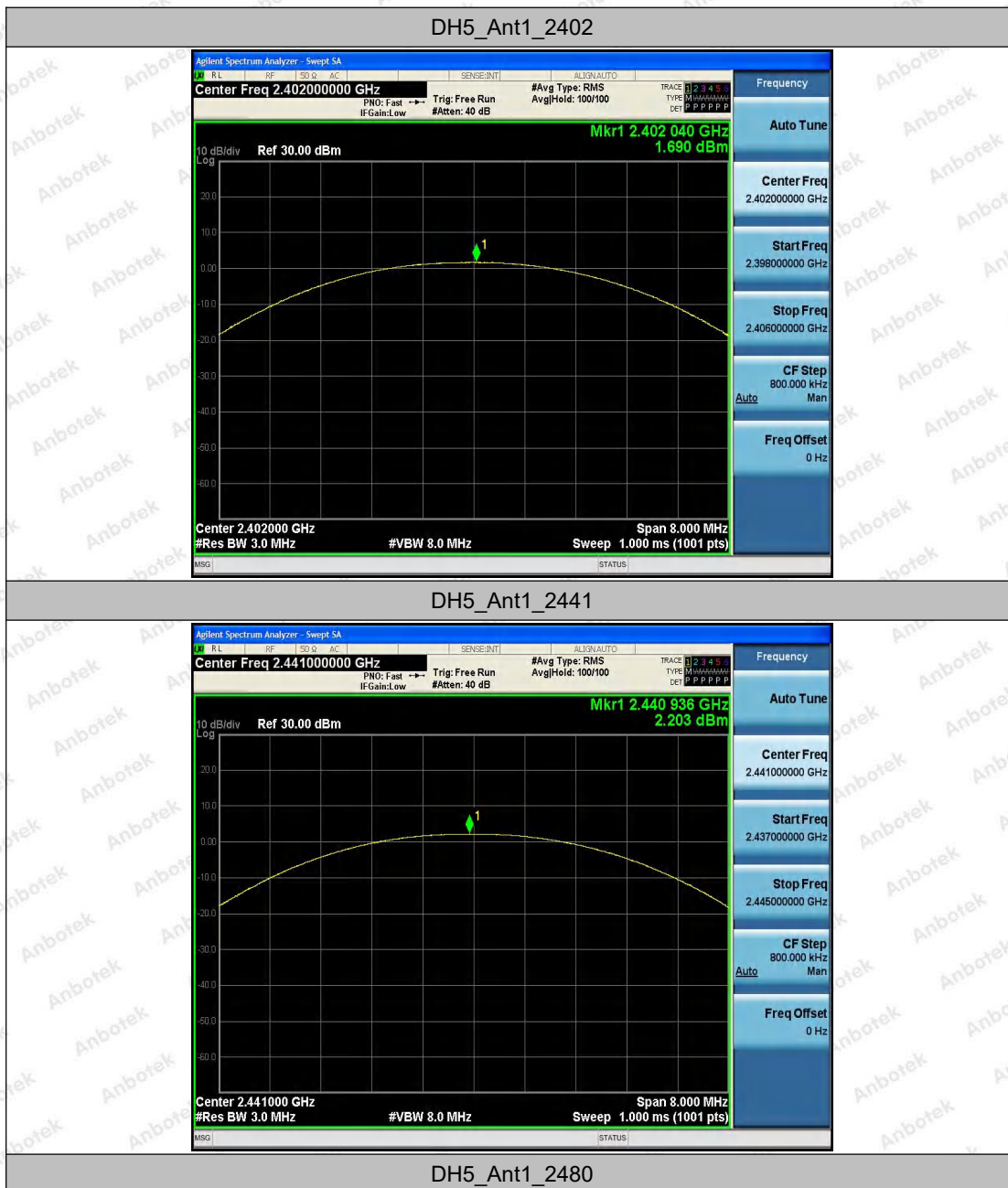
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.69	≤20.97	PASS
		2441	2.2	≤20.97	PASS
		2480	1.4	≤20.97	PASS
2DH5	Ant1	2402	1.66	≤20.97	PASS
		2441	2.12	≤20.97	PASS
		2480	1.36	≤20.97	PASS
3DH5	Ant1	2402	1.71	≤20.97	PASS
		2441	2.13	≤20.97	PASS
		2480	1.38	≤20.97	PASS

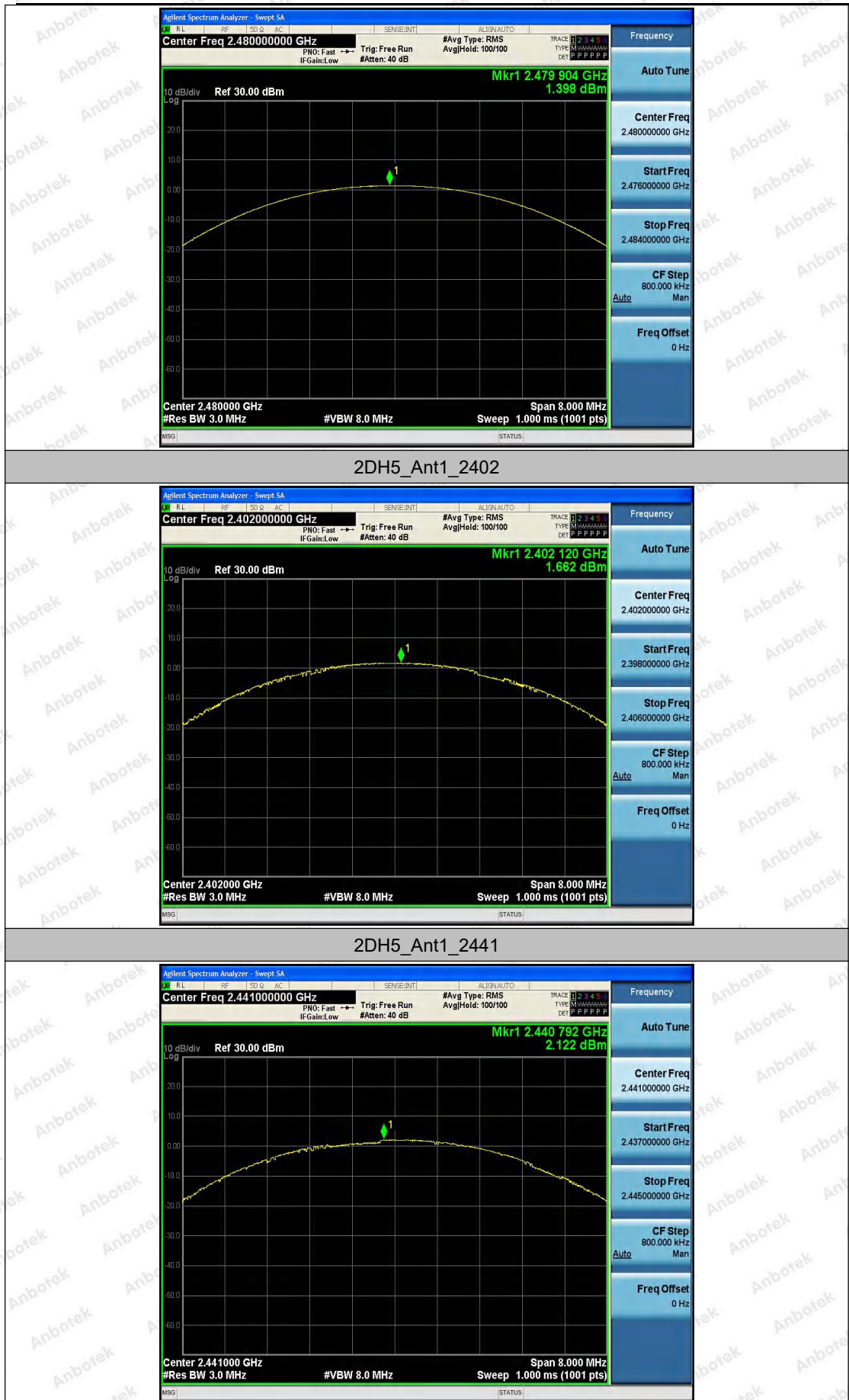
Test Graphs



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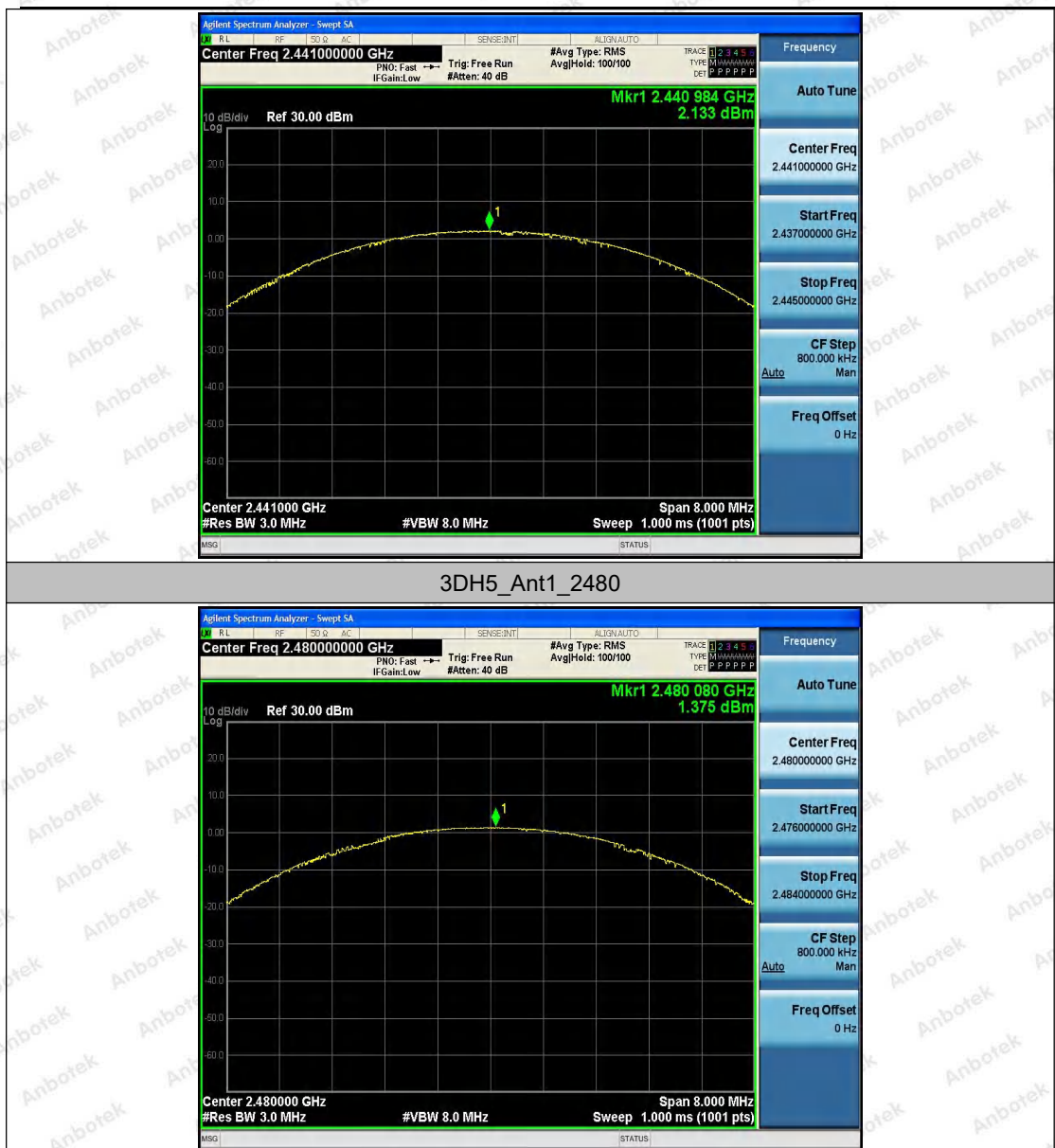
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.014	≥ 0.692	PASS
2DH5	Ant1	Hop	1	≥ 0.888	PASS
3DH5	Ant1	Hop	1.178	≥ 0.824	PASS

Test Graphs



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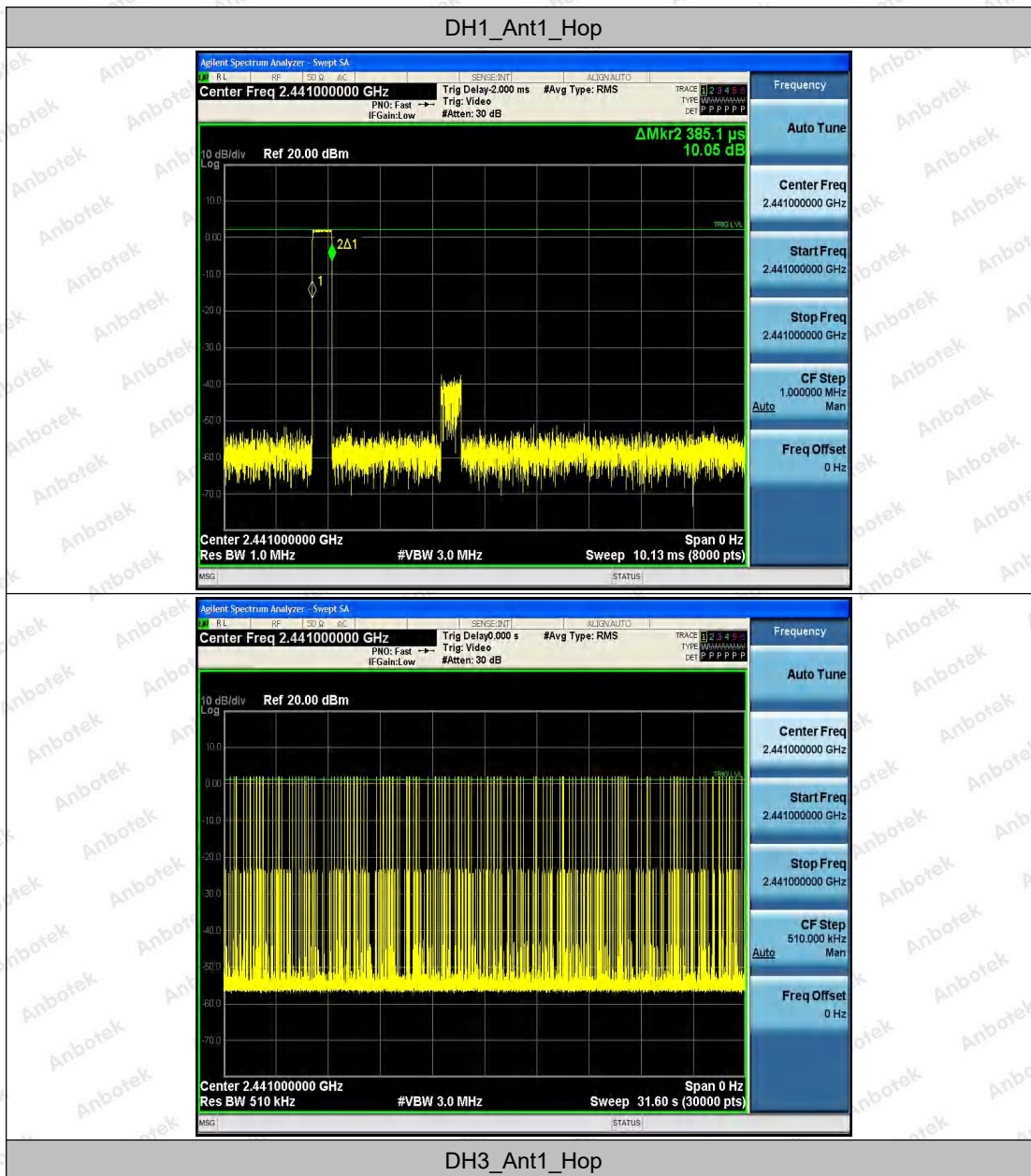
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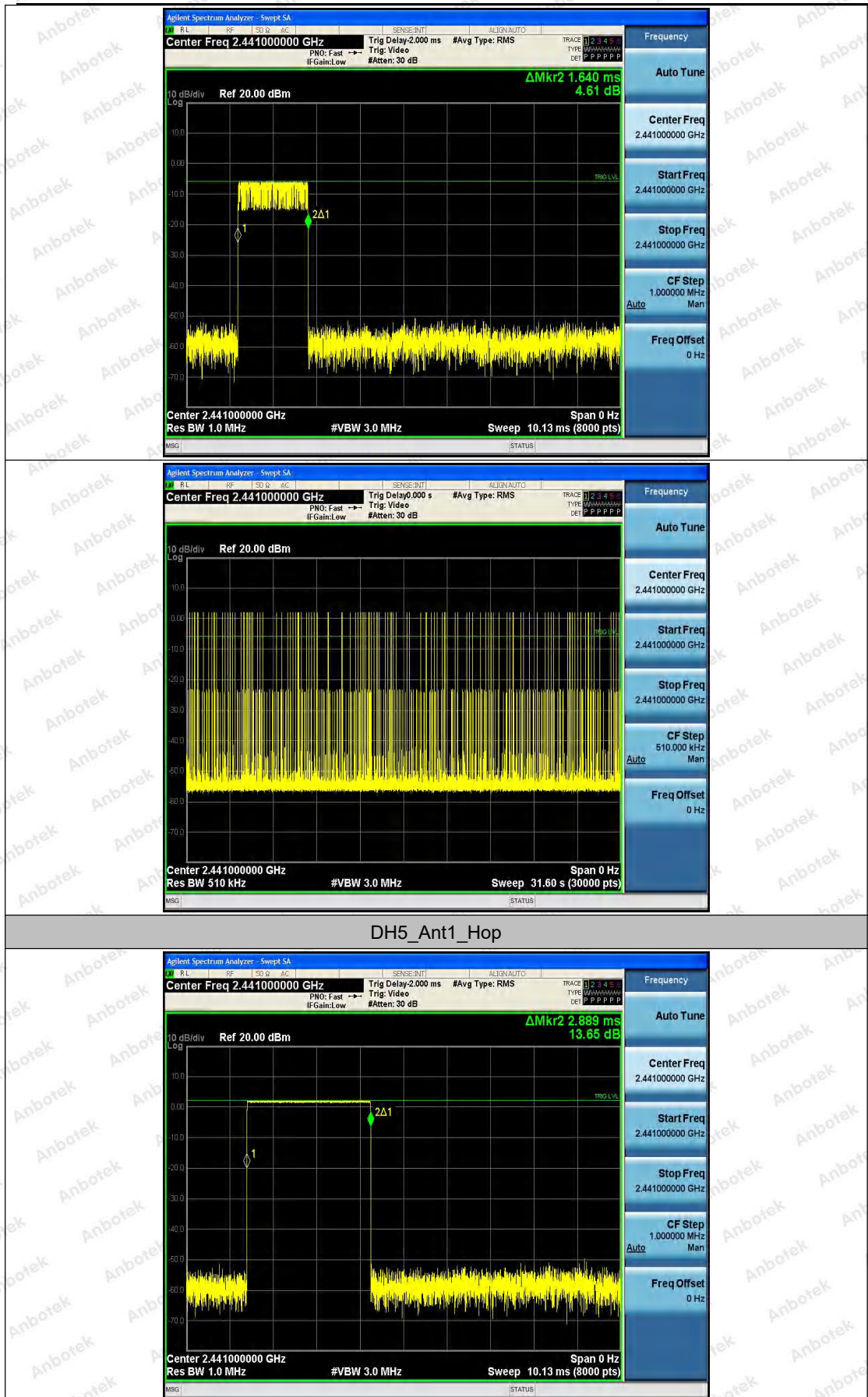
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	168	0.065	≤0.4	PASS
DH3	Ant1	Hop	1.64	114	0.187	≤0.4	PASS
DH5	Ant1	Hop	2.89	86	0.248	≤0.4	PASS
2DH1	Ant1	Hop	0.39	165	0.065	≤0.4	PASS
2DH3	Ant1	Hop	1.65	98	0.161	≤0.4	PASS
2DH5	Ant1	Hop	2.89	79	0.229	≤0.4	PASS
3DH1	Ant1	Hop	0.40	154	0.061	≤0.4	PASS
3DH3	Ant1	Hop	0.39	161	0.063	≤0.4	PASS
3DH5	Ant1	Hop	2.90	80	0.232	≤0.4	PASS

Test Graphs



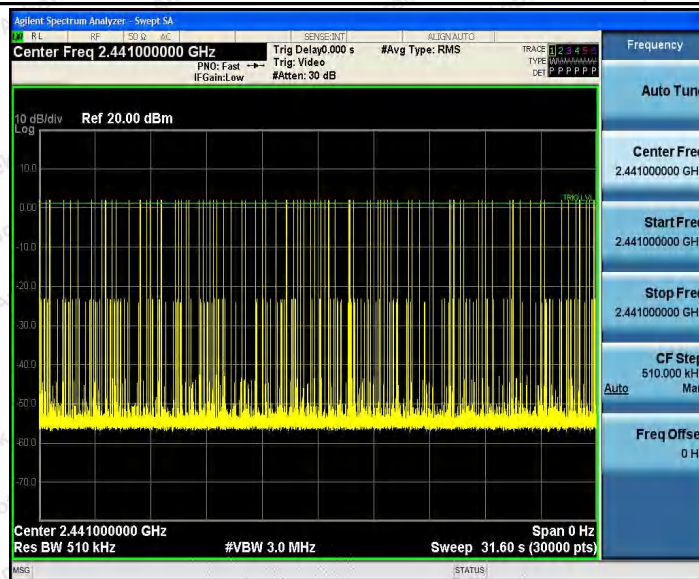


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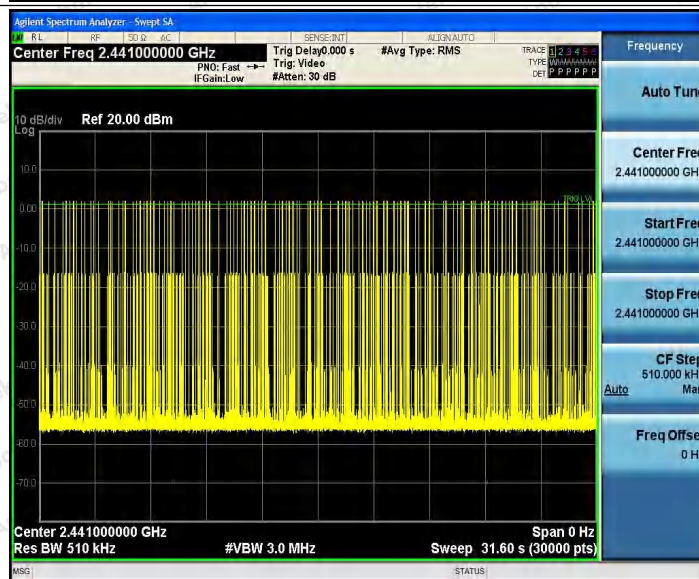
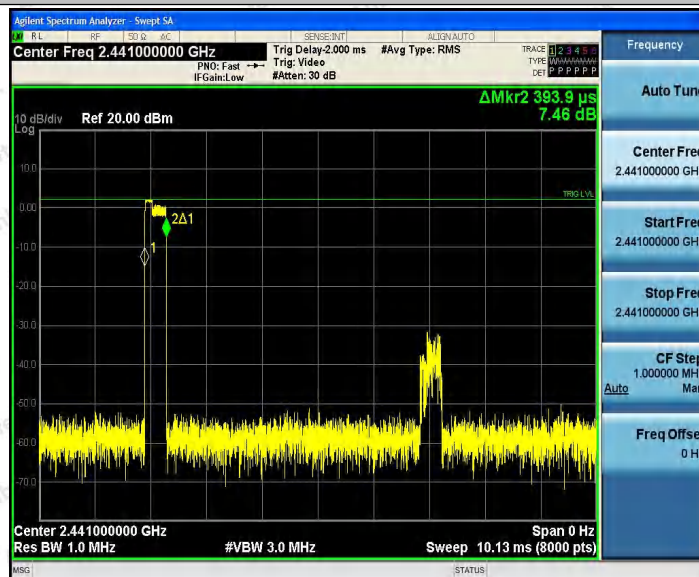
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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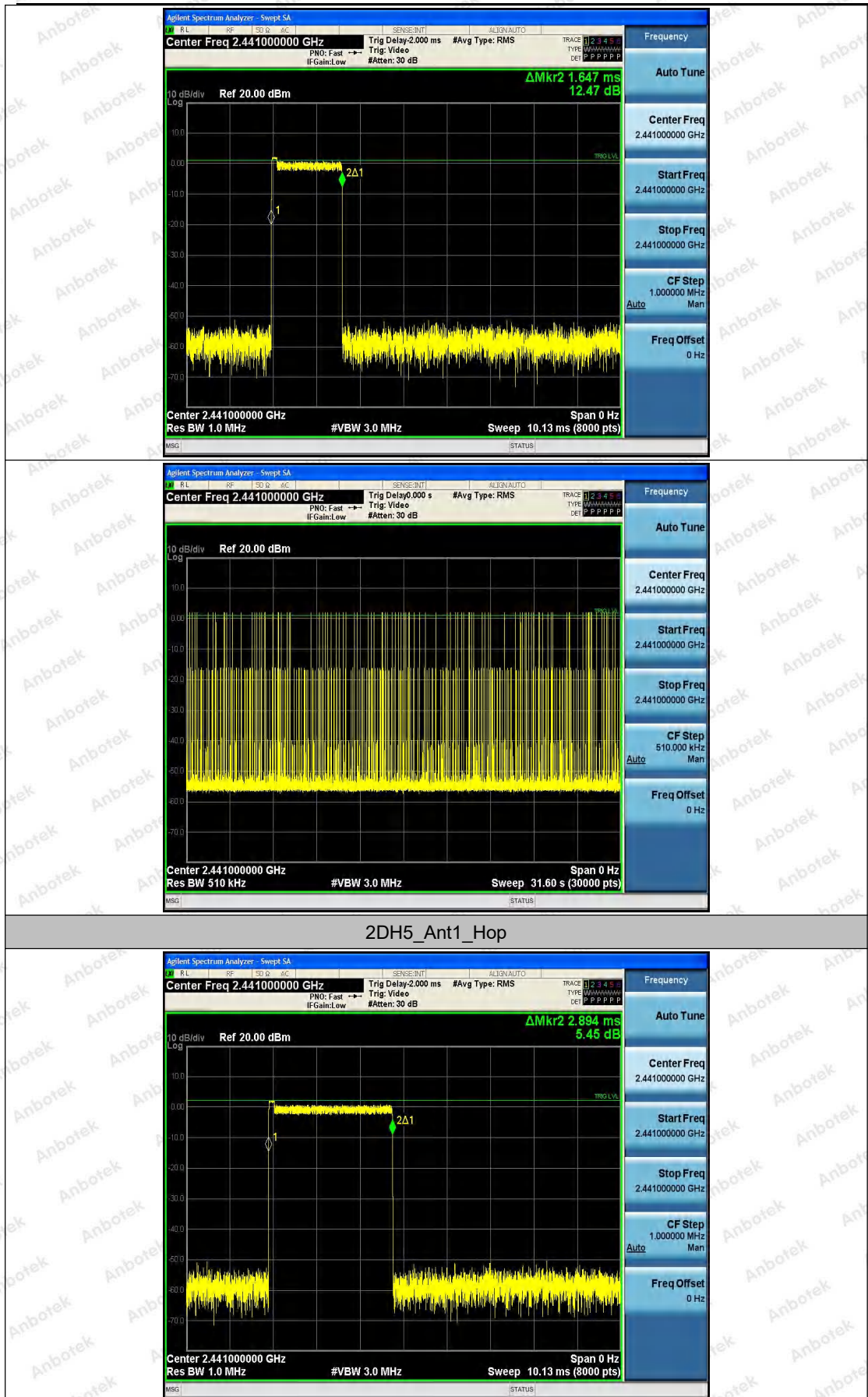
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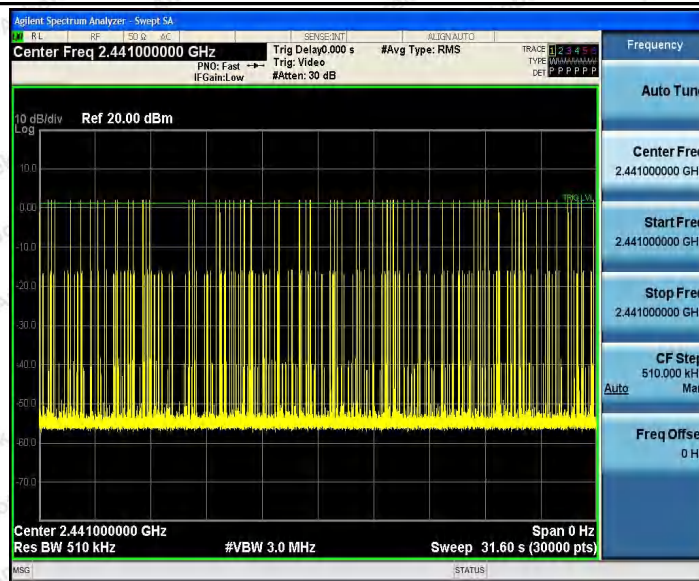


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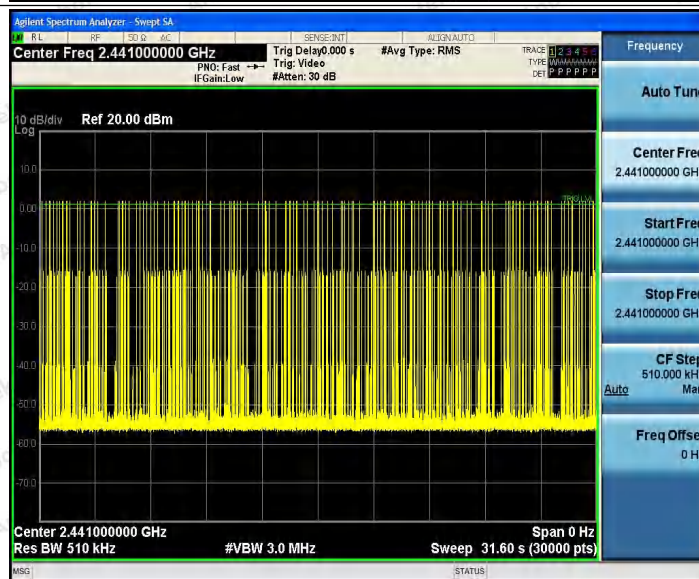
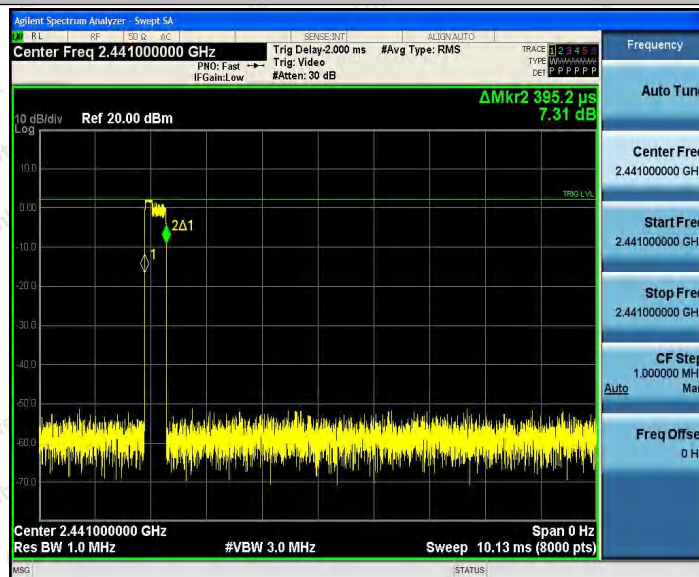
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3DH1_Ant1_Hop



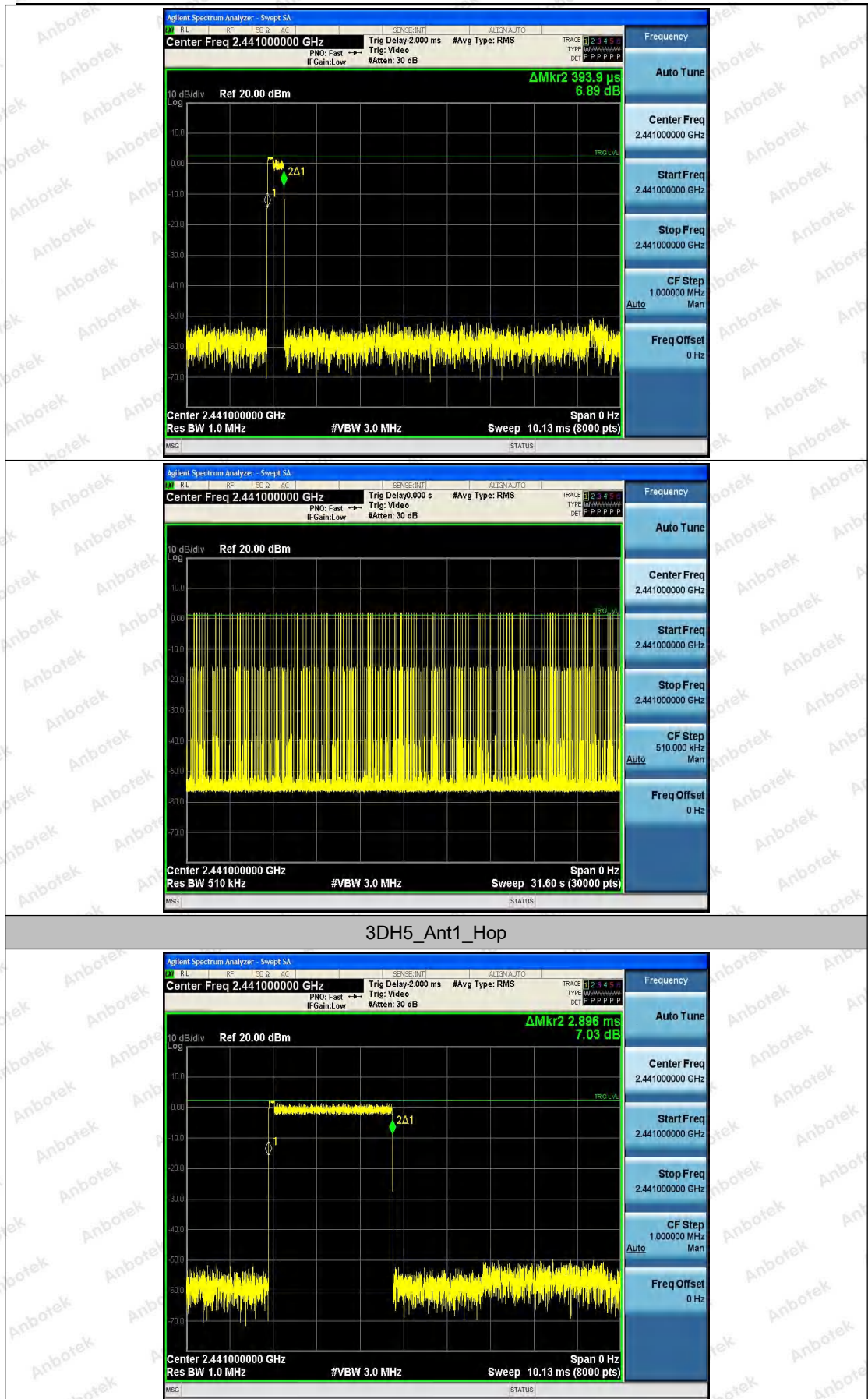
3DH3_Ant1_Hop

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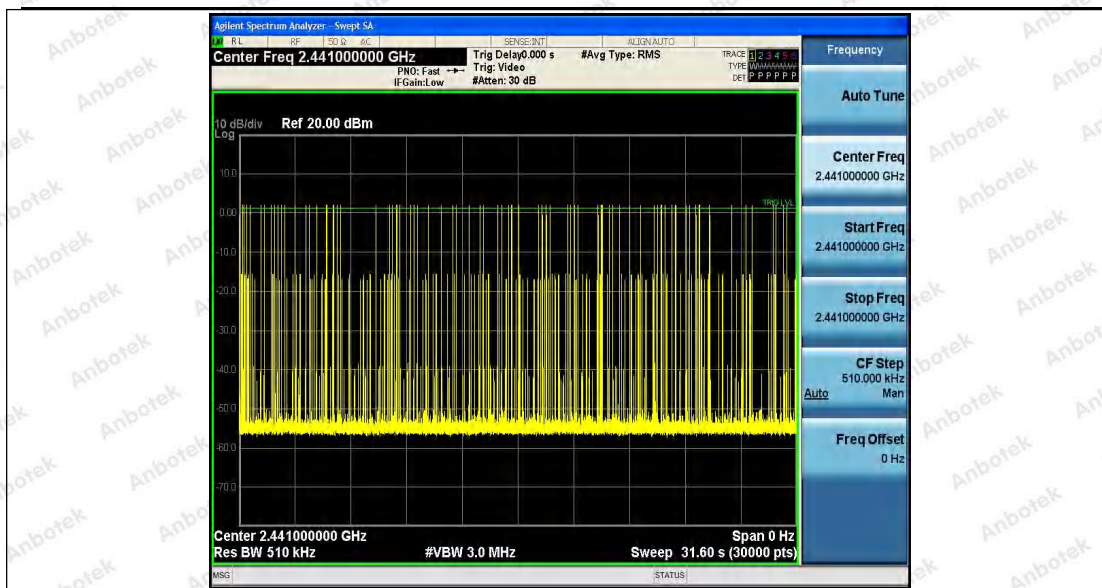


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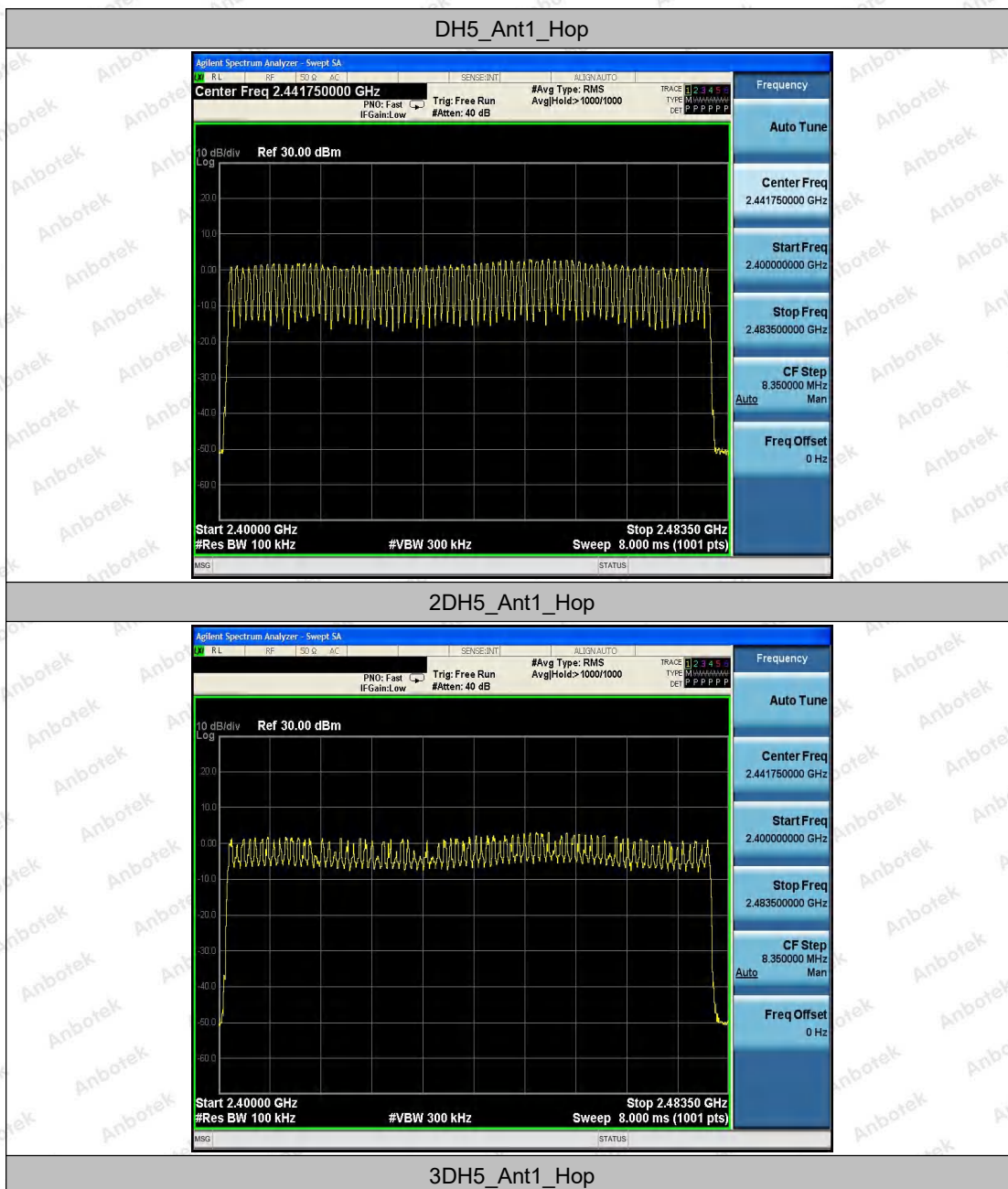
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Appendix F: Number of hopping channels

Test Result

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

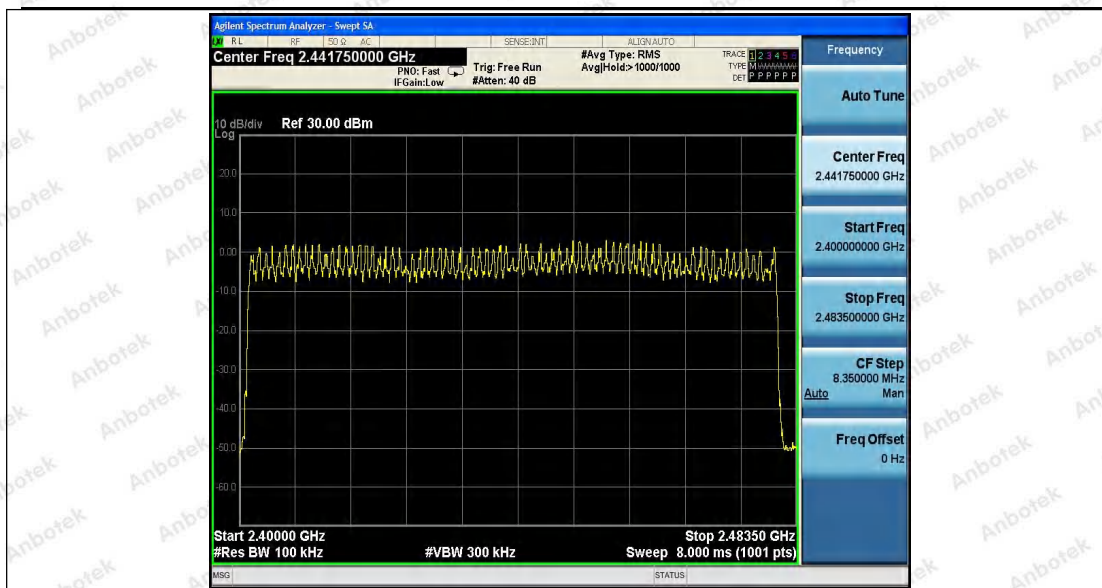


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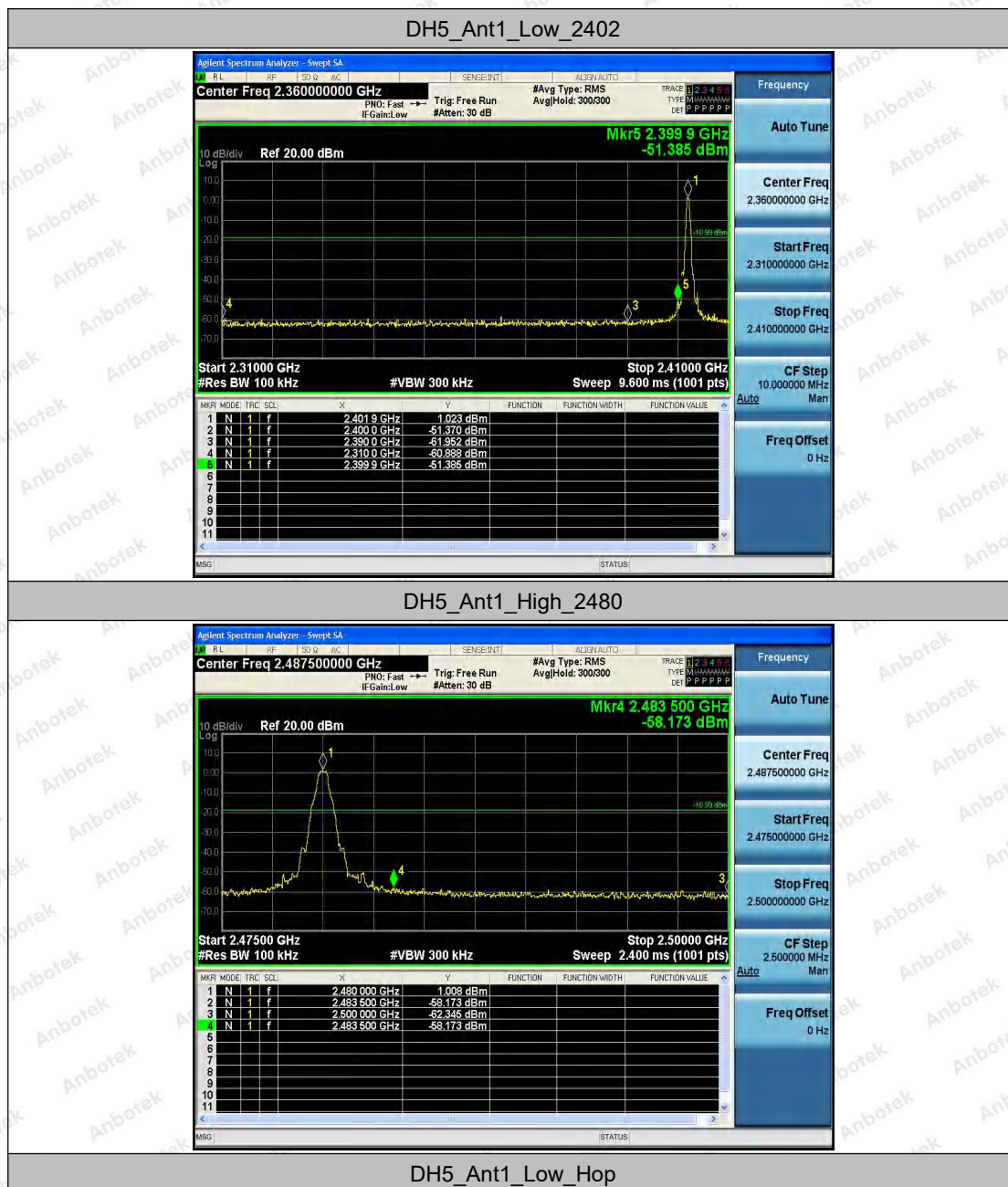
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.02	-51.39	≤-18.98	PASS
		High	2480	1.01	-58.17	≤-18.99	PASS
		Low	Hop	1.76	-57.41	≤-18.24	PASS
		High	Hop	0.56	-63.11	≤-19.44	PASS
2DH5	Ant1	Low	2402	0.80	-56.57	≤-19.2	PASS
		High	2480	0.99	-58.27	≤-19.01	PASS
		Low	Hop	-4.40	-59.49	≤-24.4	PASS
		High	Hop	-4.92	-62.15	≤-24.92	PASS
3DH5	Ant1	Low	2402	0.90	-52.48	≤-19.1	PASS
		High	2480	1.21	-58.73	≤-18.79	PASS
		Low	Hop	0.93	-59.49	≤-19.07	PASS
		High	Hop	1.14	-61.48	≤-18.86	PASS

Test Graphs



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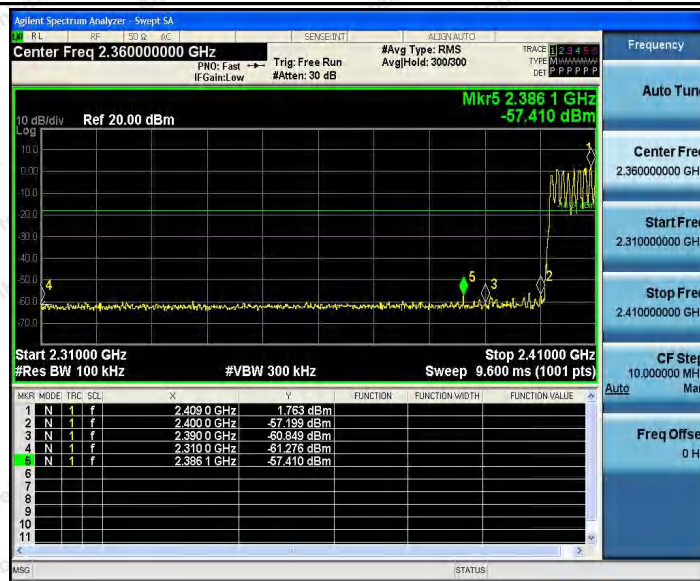
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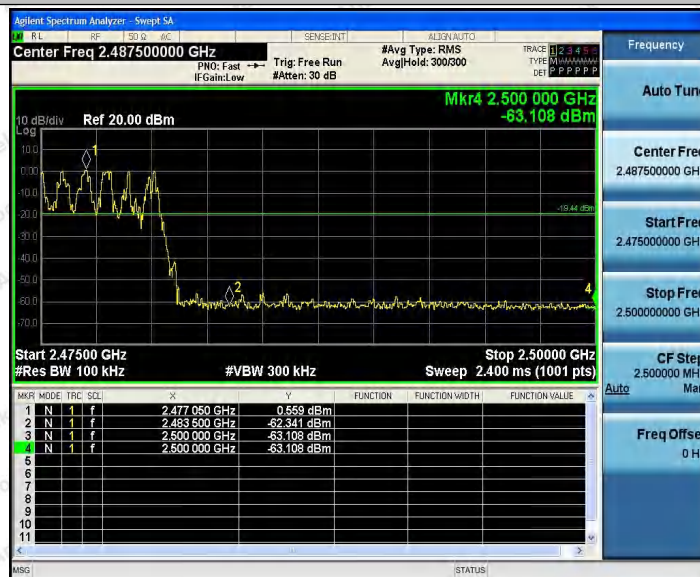
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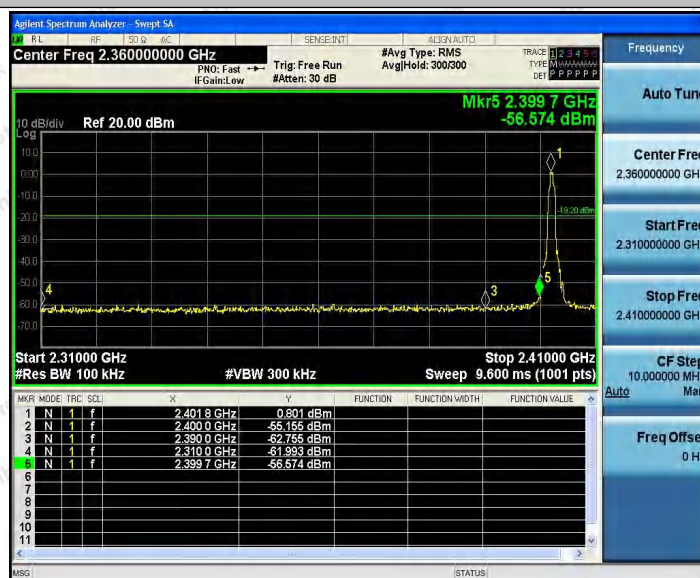
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

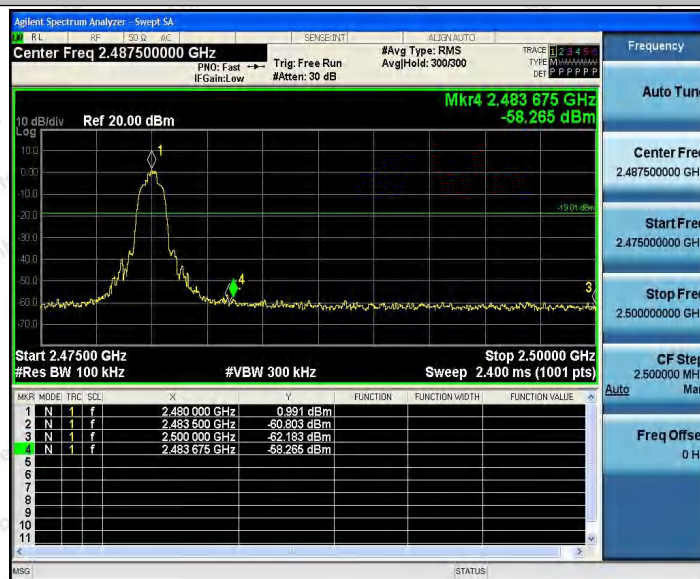


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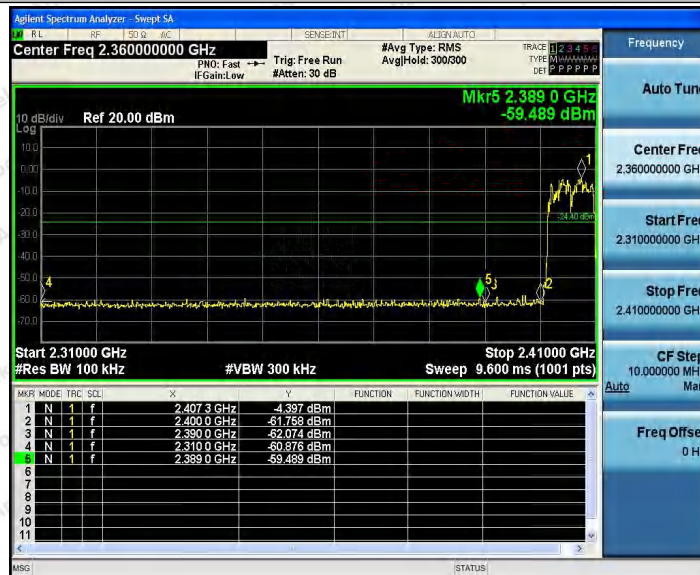
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



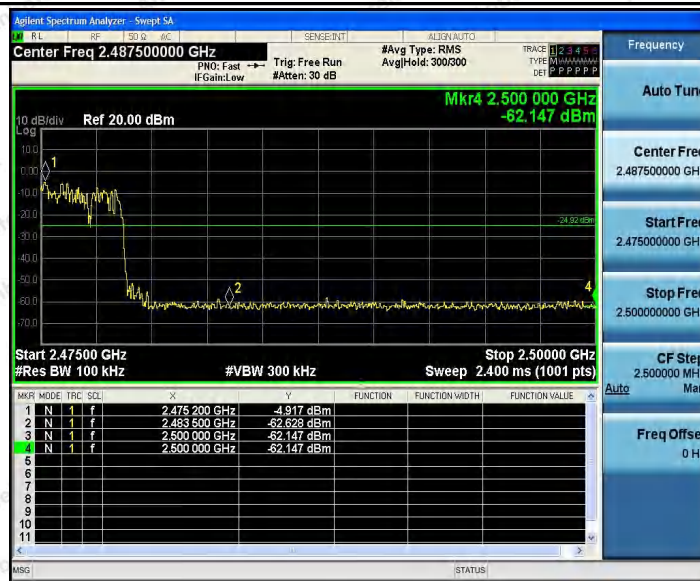
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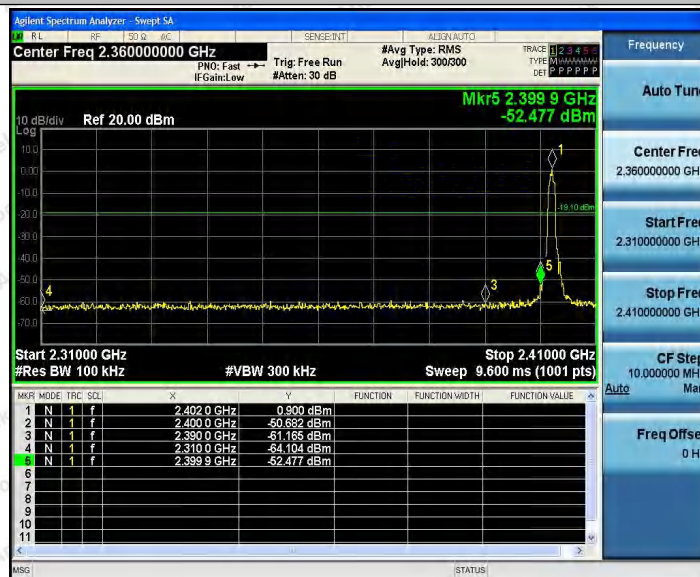
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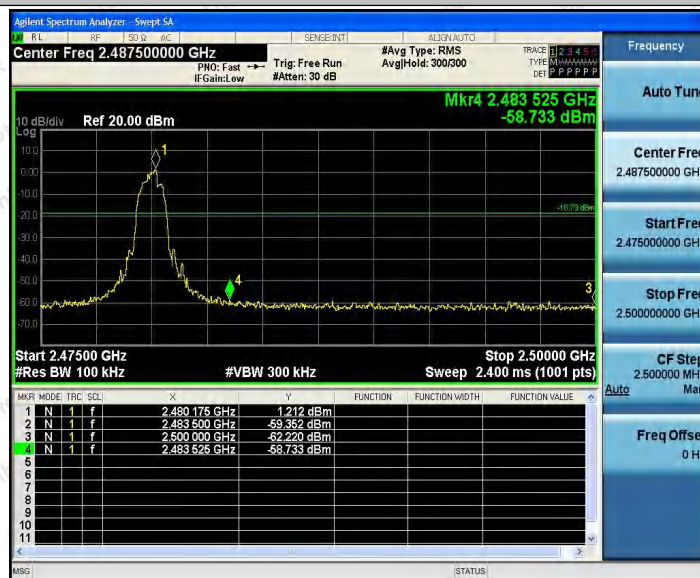
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

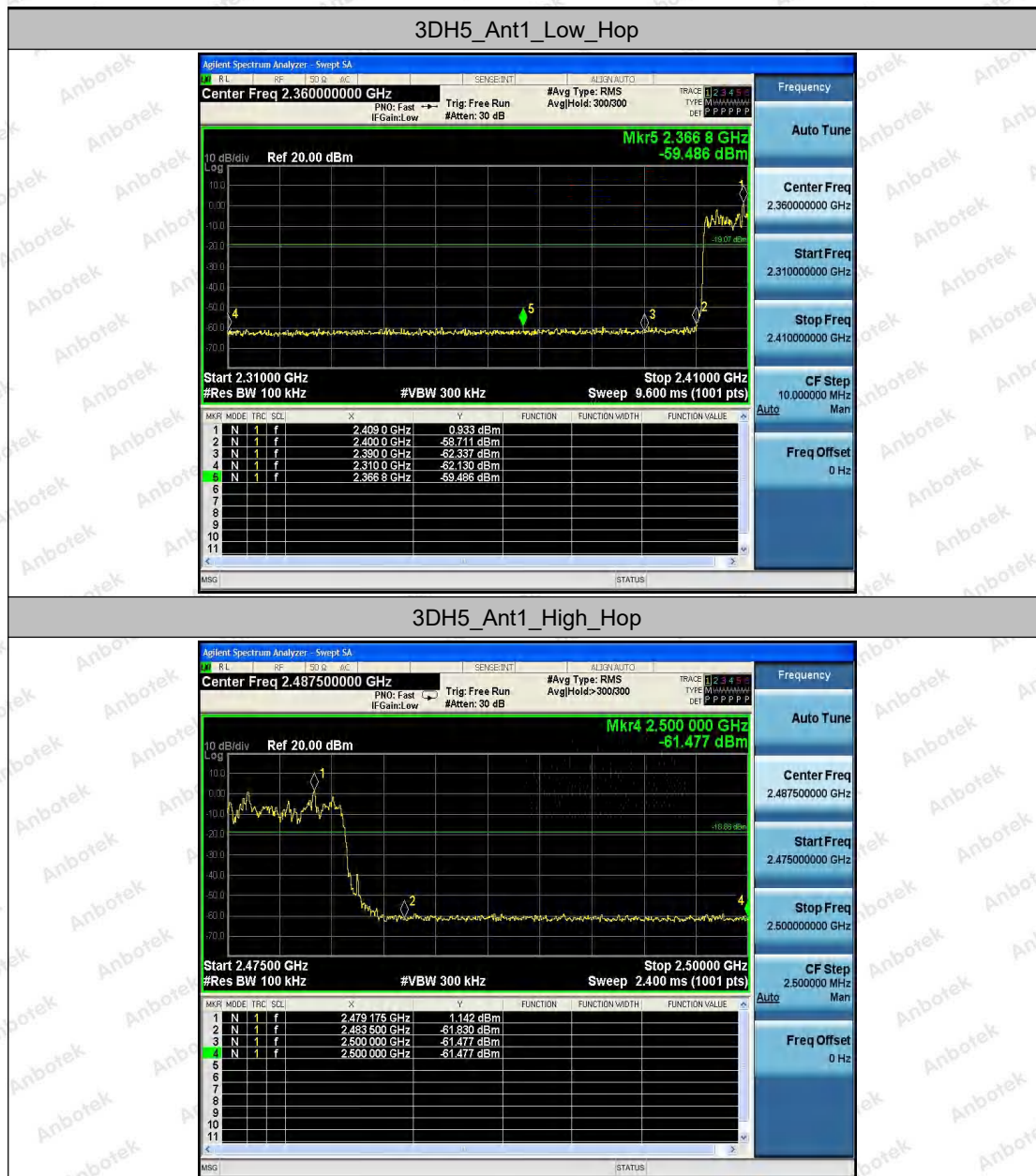


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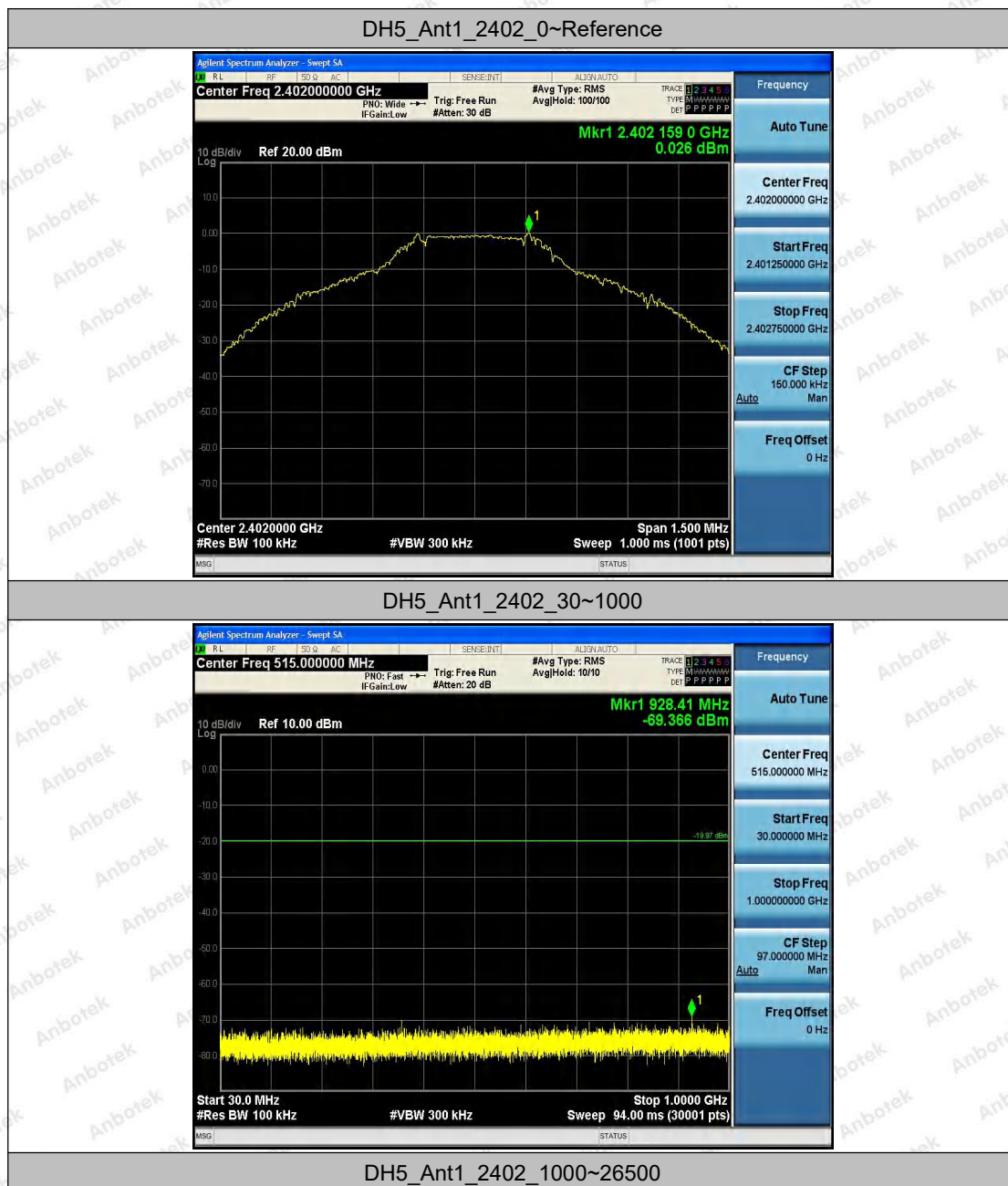


Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-69.37	≤-19.97	PASS
			1000~26500	0.03	-55.26	≤-19.97	PASS
		2441	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-70.16	≤-18.34	PASS
			1000~26500	1.66	-55.49	≤-18.34	PASS
		2480	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-69.81	≤-18.9	PASS
			1000~26500	1.10	-55.24	≤-18.9	PASS
2DH5	Ant1	2402	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-70.47	≤-18.88	PASS
			1000~26500	1.12	-54.83	≤-18.88	PASS
		2441	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-70.81	≤-18.38	PASS
			1000~26500	1.62	-54.81	≤-18.38	PASS
		2480	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-70.25	≤-20.27	PASS
			1000~26500	-0.27	-54.94	≤-20.27	PASS
3DH5	Ant1	2402	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-70.38	≤-18.9	PASS
			1000~26500	1.10	-54.23	≤-18.9	PASS
		2441	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-61.91	≤-18.87	PASS
			1000~26500	1.13	-55.38	≤-18.87	PASS
		2480	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-70	≤-21.45	PASS
			1000~26500	-1.45	-55.41	≤-21.45	PASS

Test Graphs



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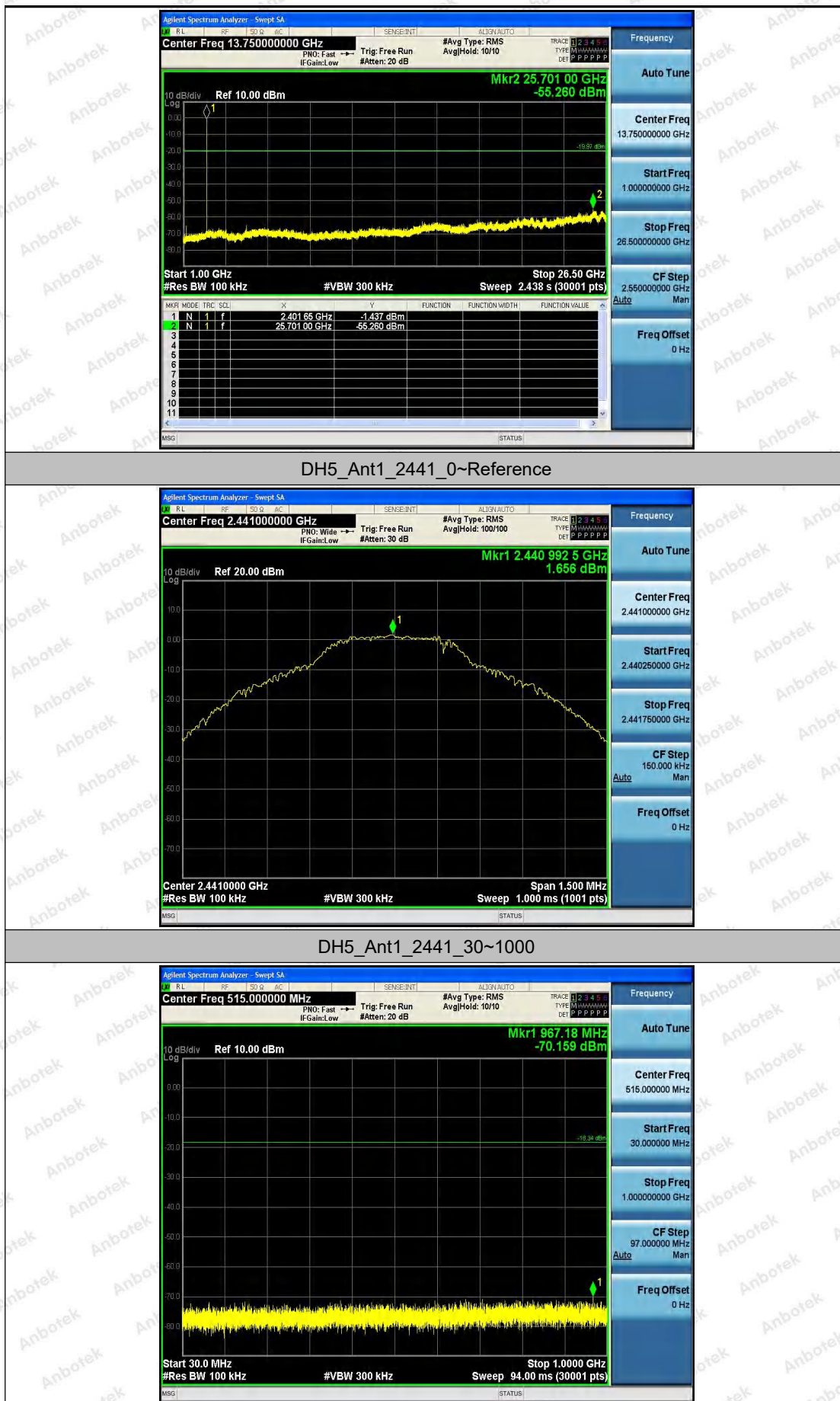
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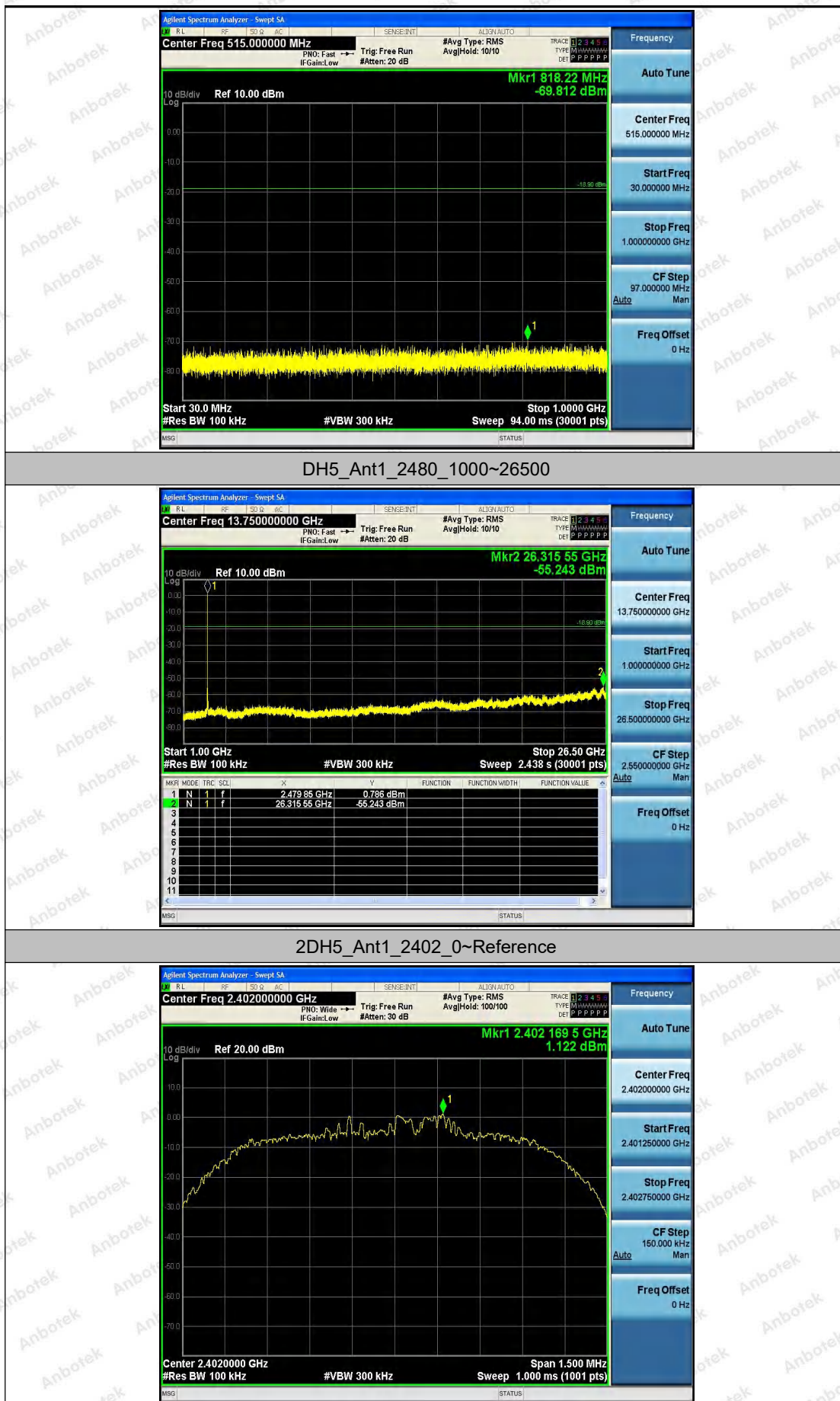


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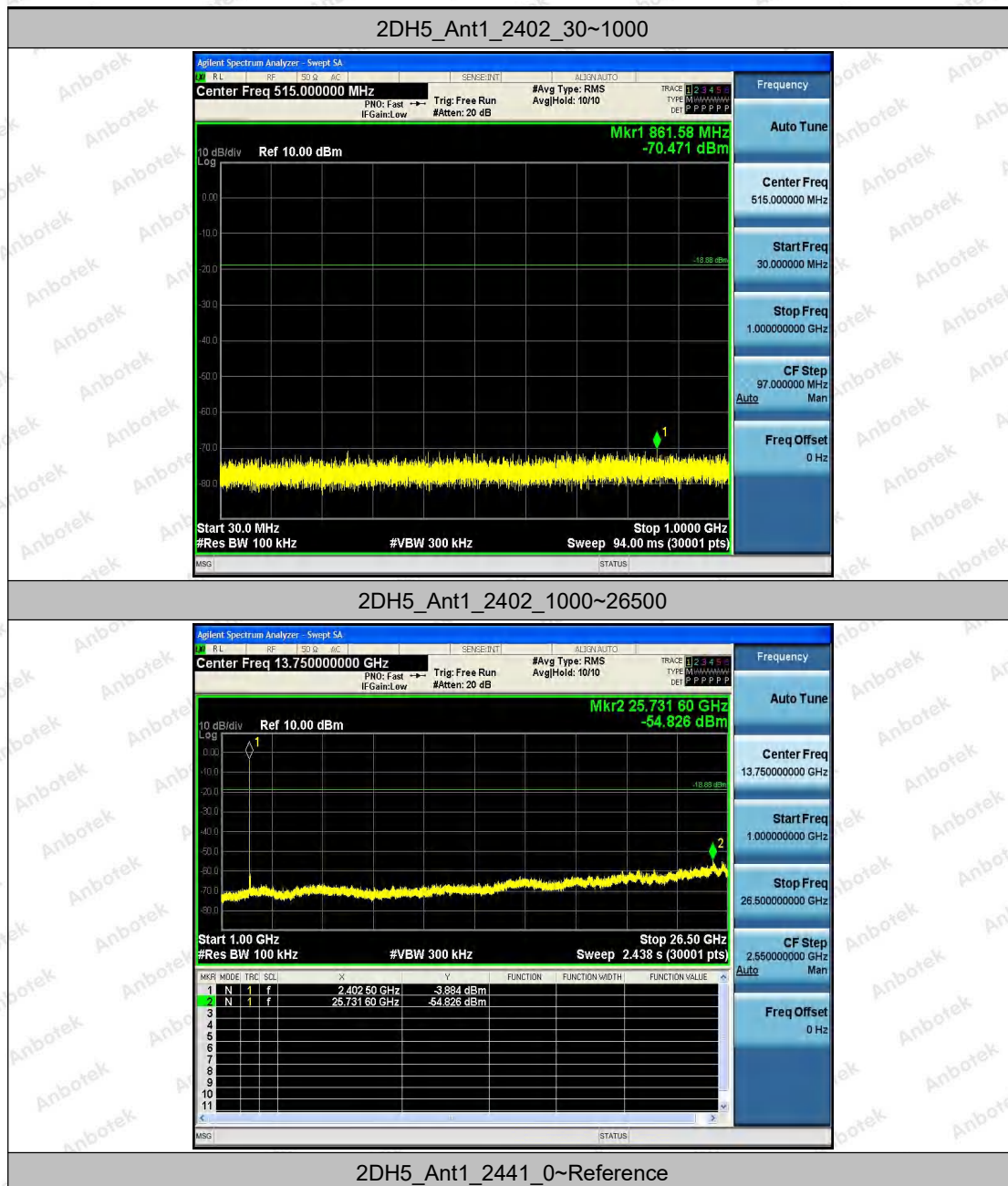


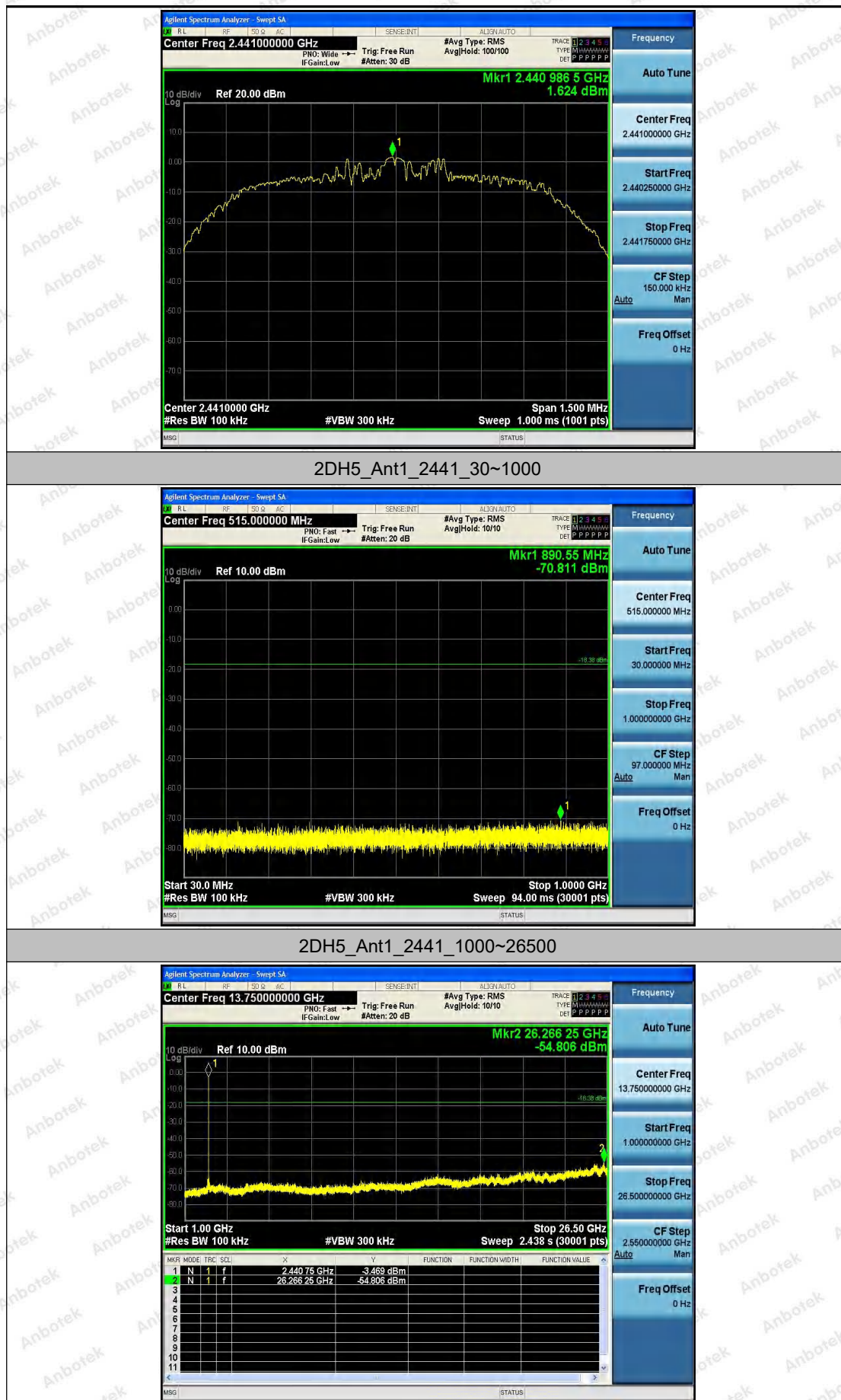


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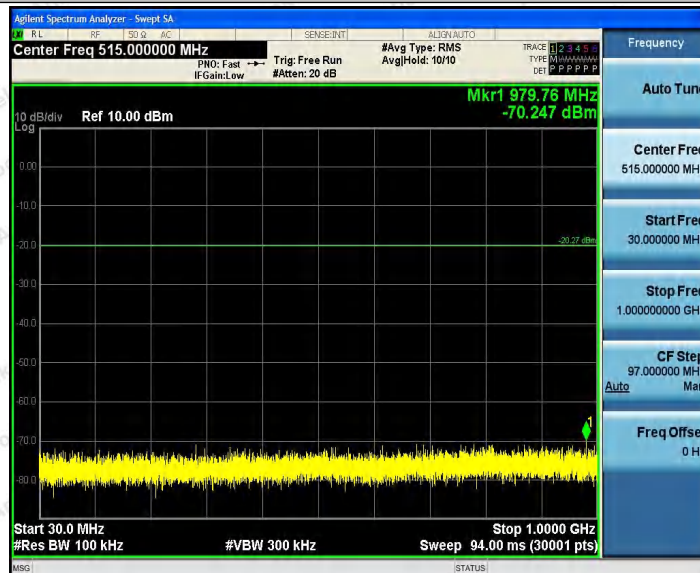
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

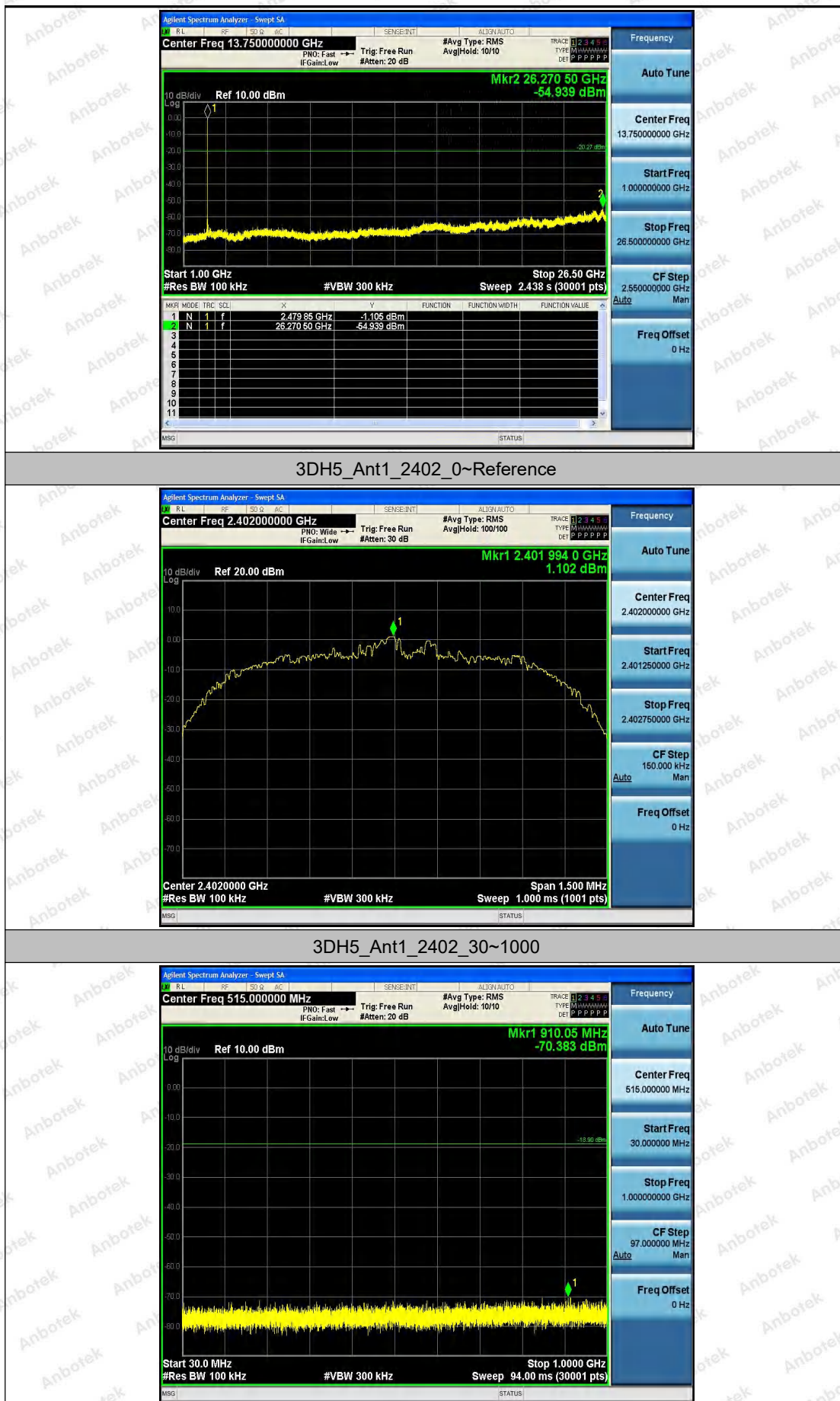


2DH5_Ant1_2480_1000~26500

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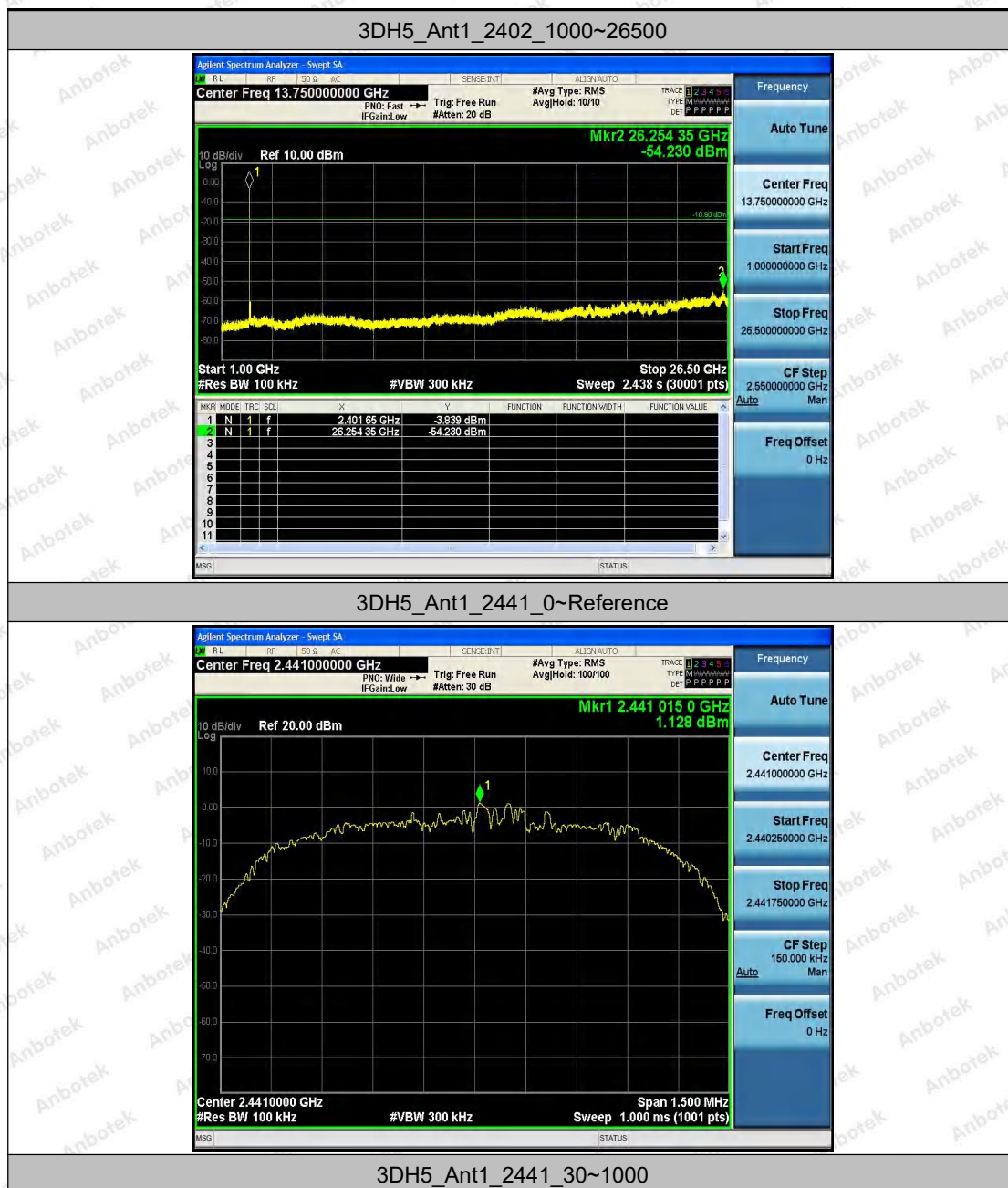
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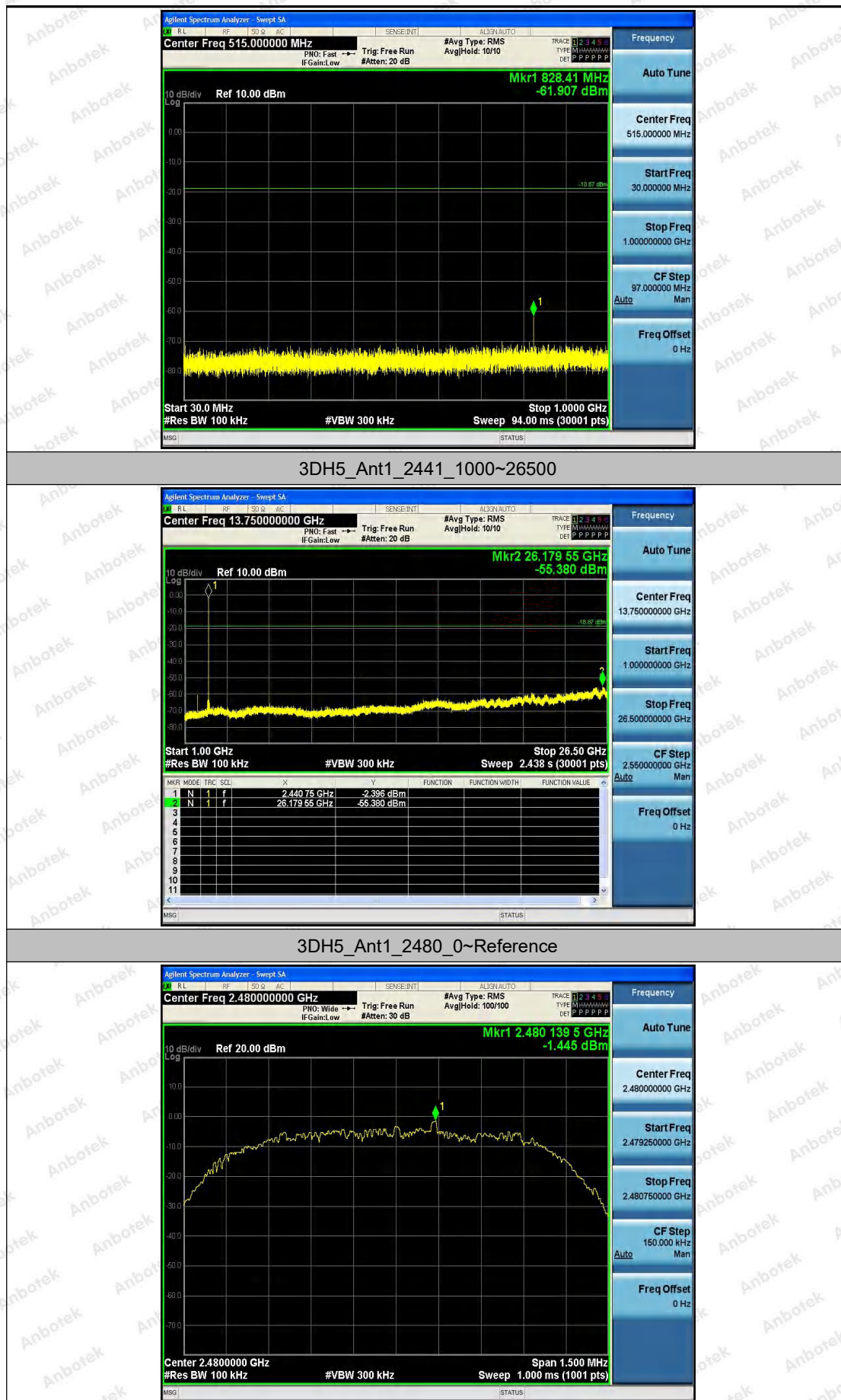


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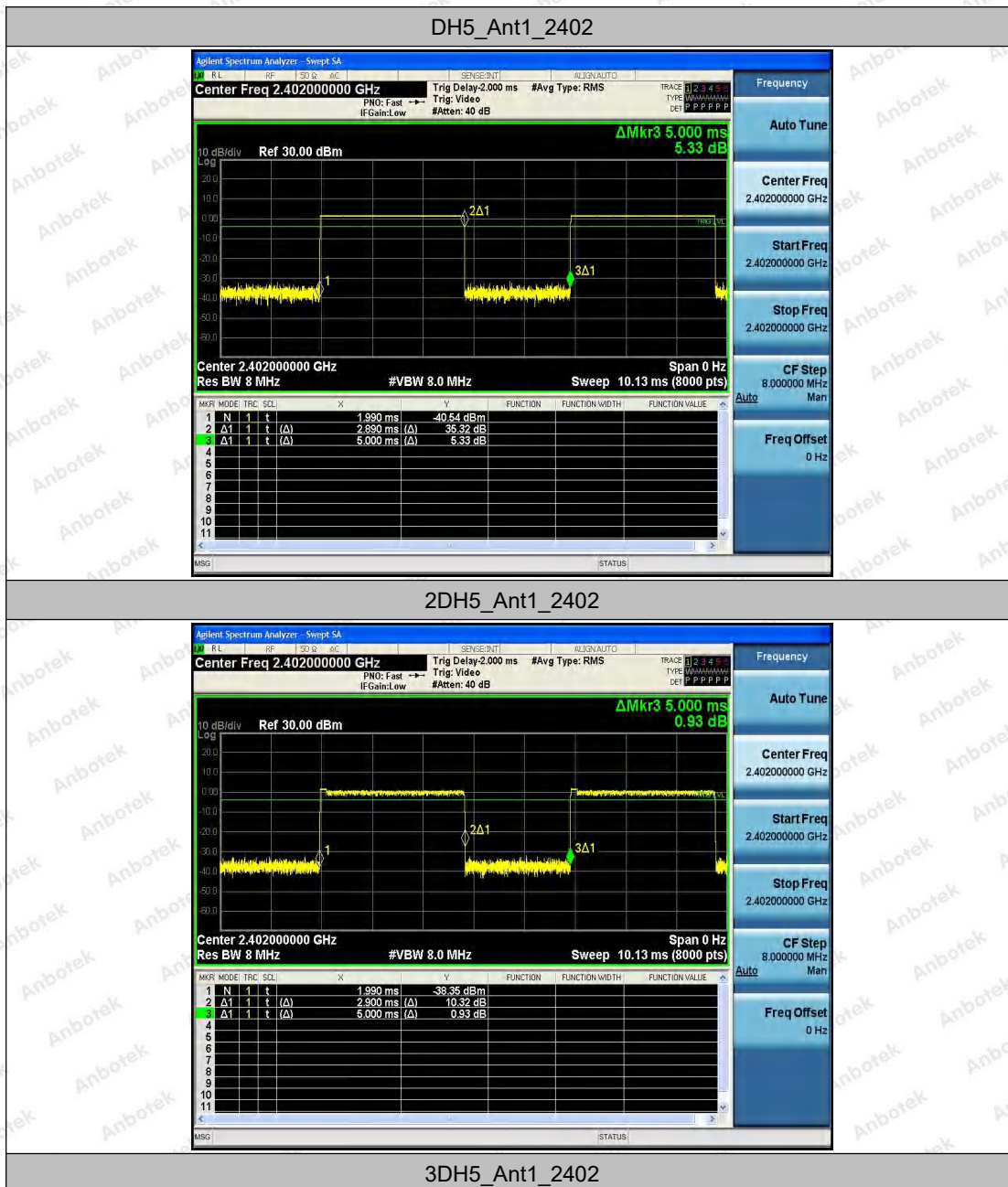
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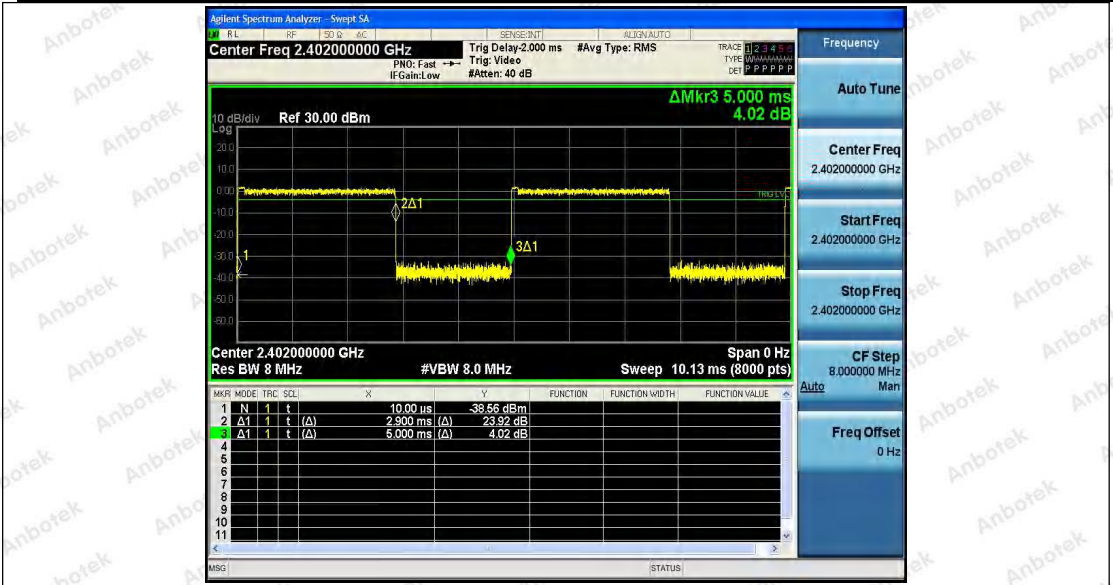
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.89	5.00	0.5780	57.80	2.38	---	PASS
2DH5	Ant1	2402	2.90	5.00	0.5800	58.00	2.37	---	PASS
3DH5	Ant1	2402	2.90	5.00	0.5800	58.00	2.37	---	PASS

Test Graphs





---End---