

Appendix Test Data

Report No.:	18220WC10278301	Test Sample No.:	1-2-2
Start Test Date:	2021.12.15	Finish Test Date:	2021.12.20
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

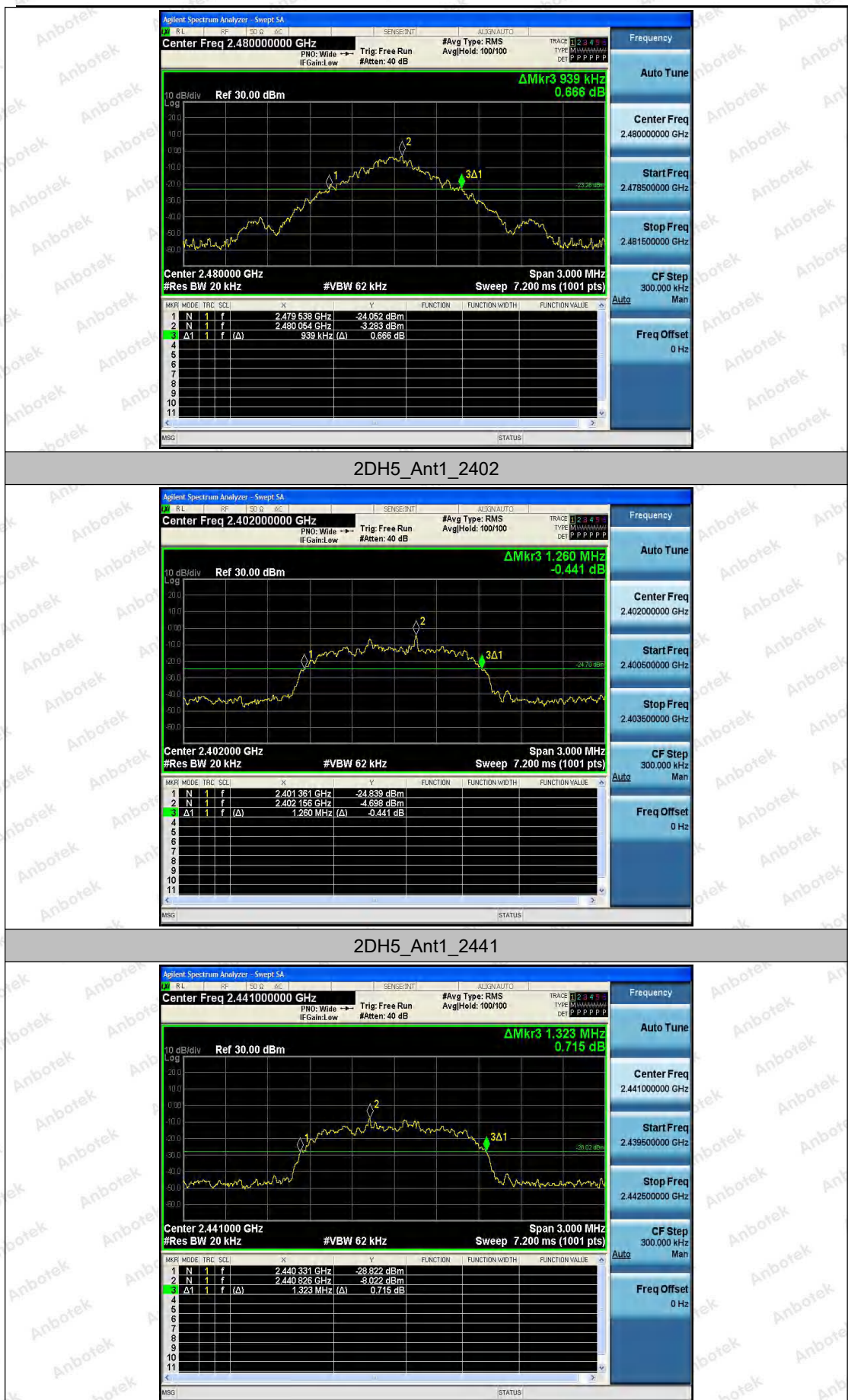
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.532	2402.480	---	PASS
		2441	0.945	2440.532	2441.477	---	PASS
		2480	0.939	2479.538	2480.477	---	PASS
2DH5	Ant1	2402	1.260	2401.361	2402.621	---	PASS
		2441	1.323	2440.331	2441.654	---	PASS
		2480	1.323	2479.331	2480.654	---	PASS
3DH5	Ant1	2402	1.338	2401.322	2402.660	---	PASS
		2441	1.293	2440.343	2441.636	---	PASS
		2480	1.311	2479.340	2480.651	---	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	0.89079	2401.55 1	2402.442	---	PASS
		2441	0.89418	2440.55 0	2441.444	---	PASS
		2480	0.89013	2479.54 6	2480.436	---	PASS
2DH5	Ant1	2402	1.1927	2401.39 7	2402.590	---	PASS
		2441	1.1974	2440.39 5	2441.593	---	PASS
		2480	1.1787	2479.40 3	2480.581	---	PASS
3DH5	Ant1	2402	1.2064	2401.38 6	2402.592	---	PASS
		2441	1.2044	2440.38 4	2441.589	---	PASS
		2480	1.2001	2479.38 8	2480.588	---	PASS

Test Graphs

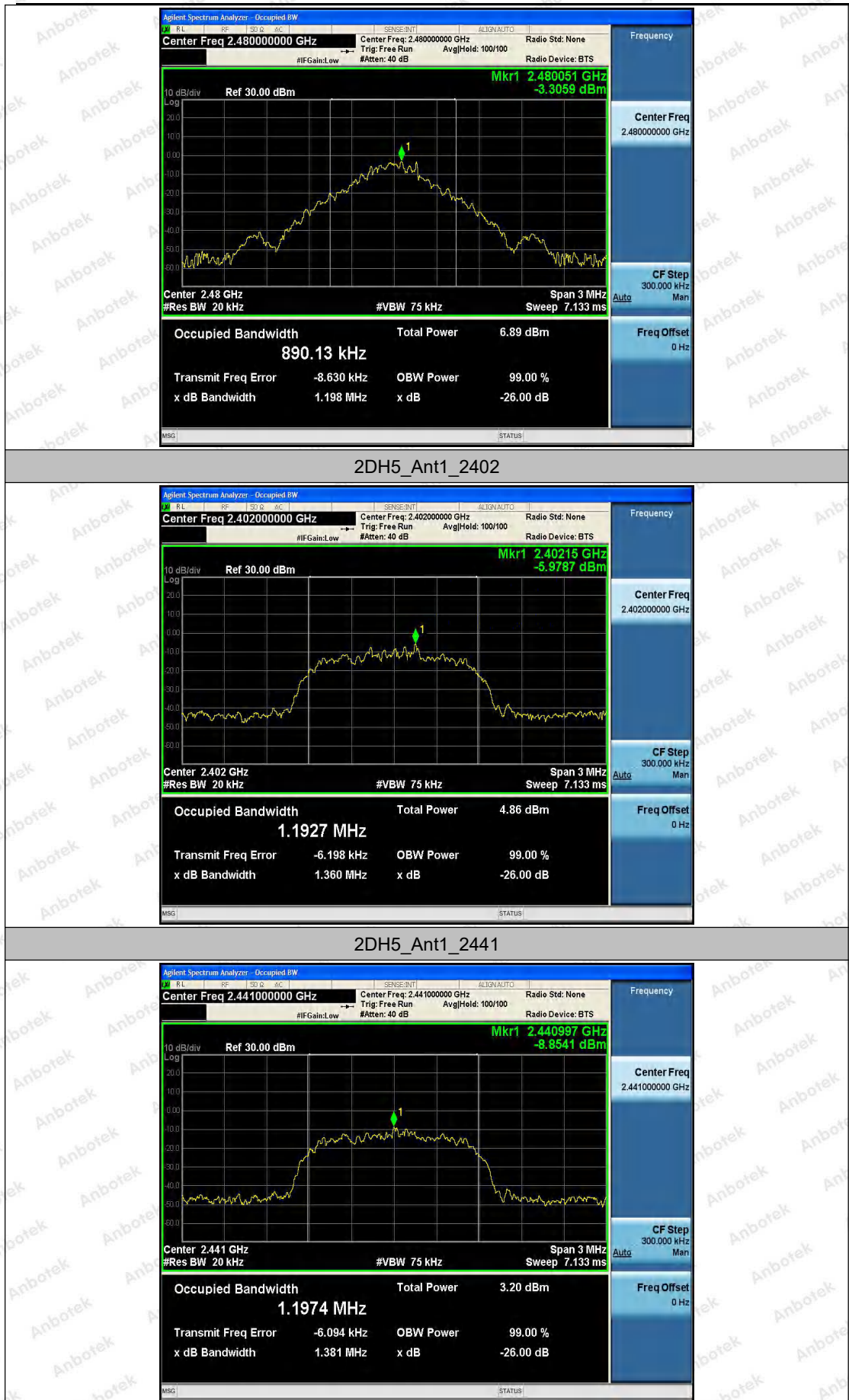


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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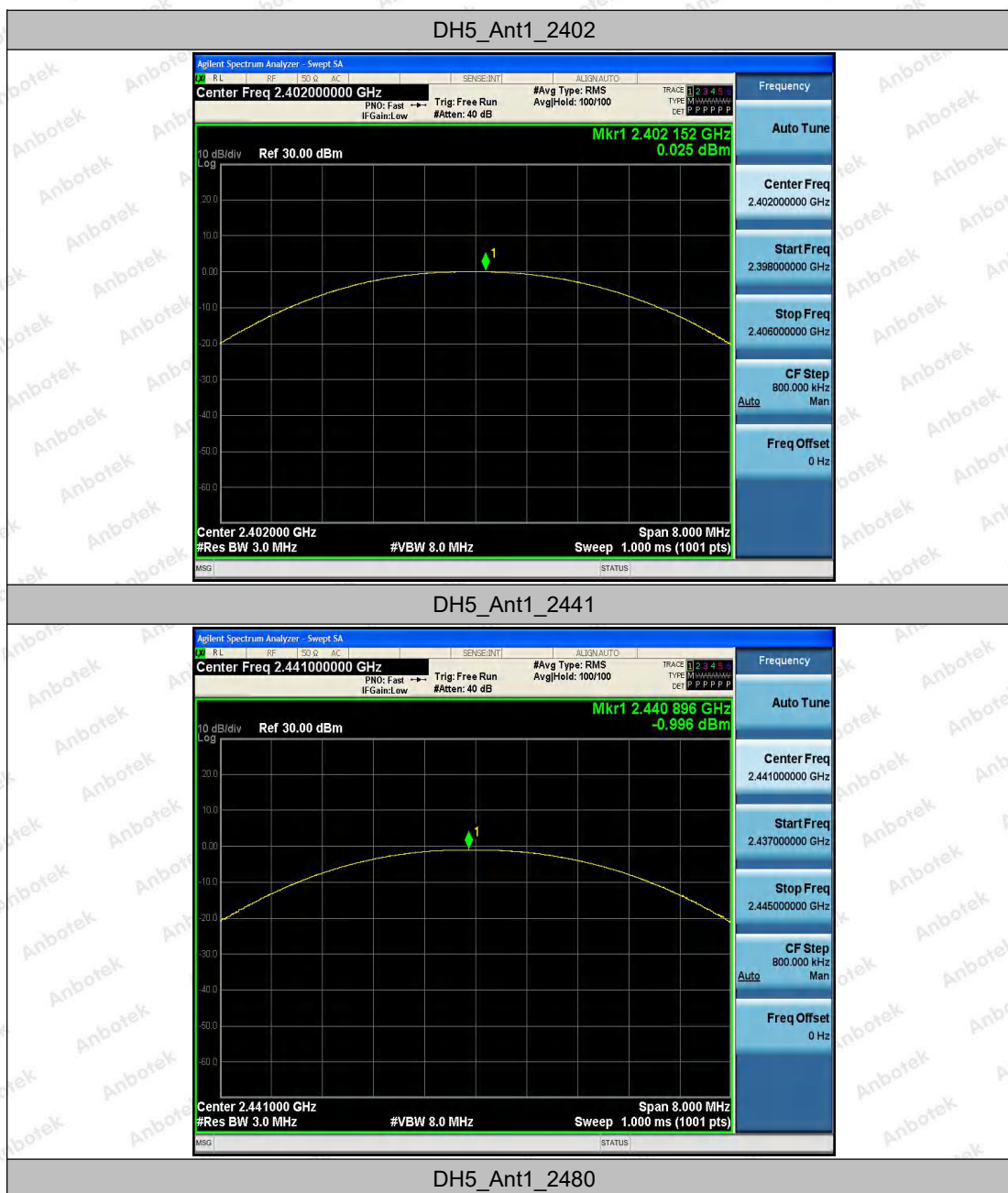
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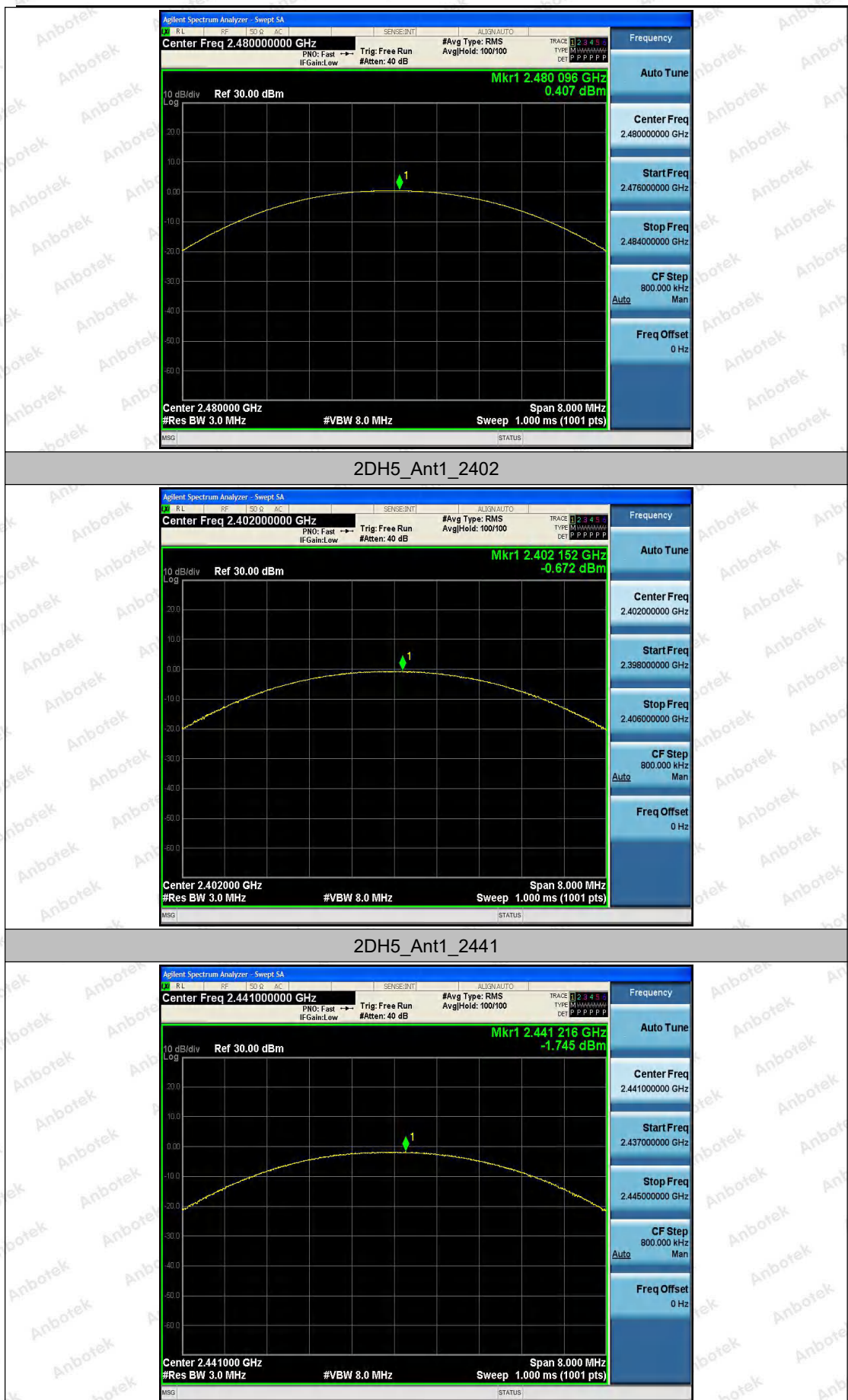
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.03	≤20.97	PASS
		2441	-1	≤20.97	PASS
		2480	0.41	≤20.97	PASS
2DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-1.75	≤20.97	PASS
		2480	-0.38	≤20.97	PASS
3DH5	Ant1	2402	-0.16	≤20.97	PASS
		2441	-1.51	≤20.97	PASS
		2480	-0.22	≤20.97	PASS

Test Graphs



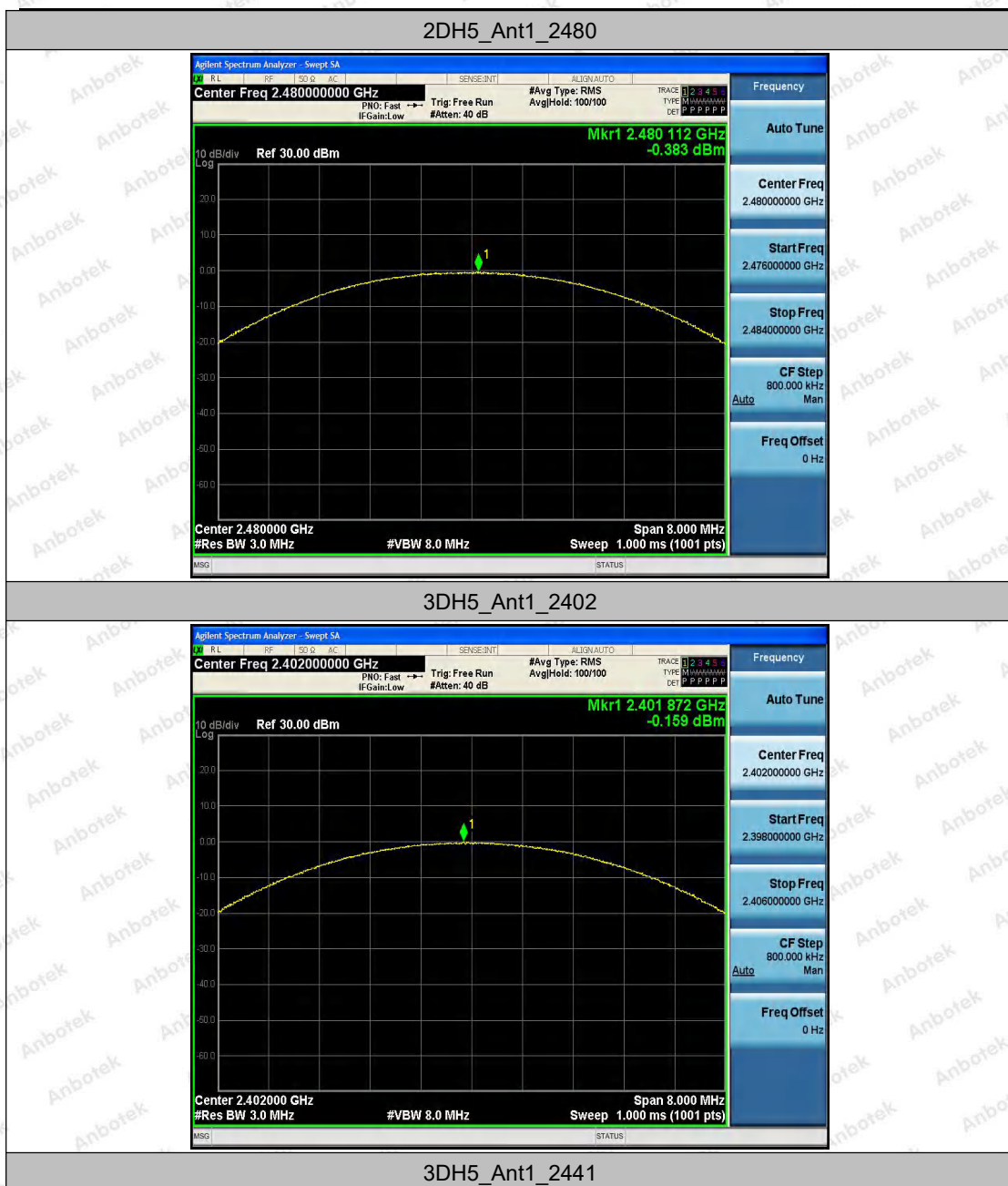


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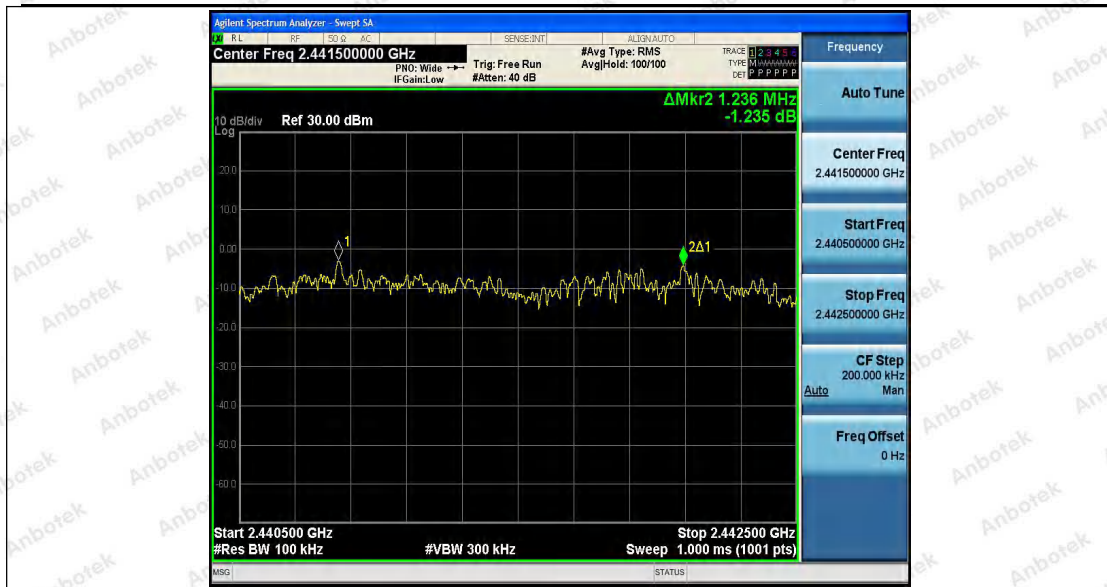
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.876	≥ 0.632	PASS
2DH5	Ant1	Hop	1.192	≥ 0.882	PASS
3DH5	Ant1	Hop	1.236	≥ 0.892	PASS

Test Graphs





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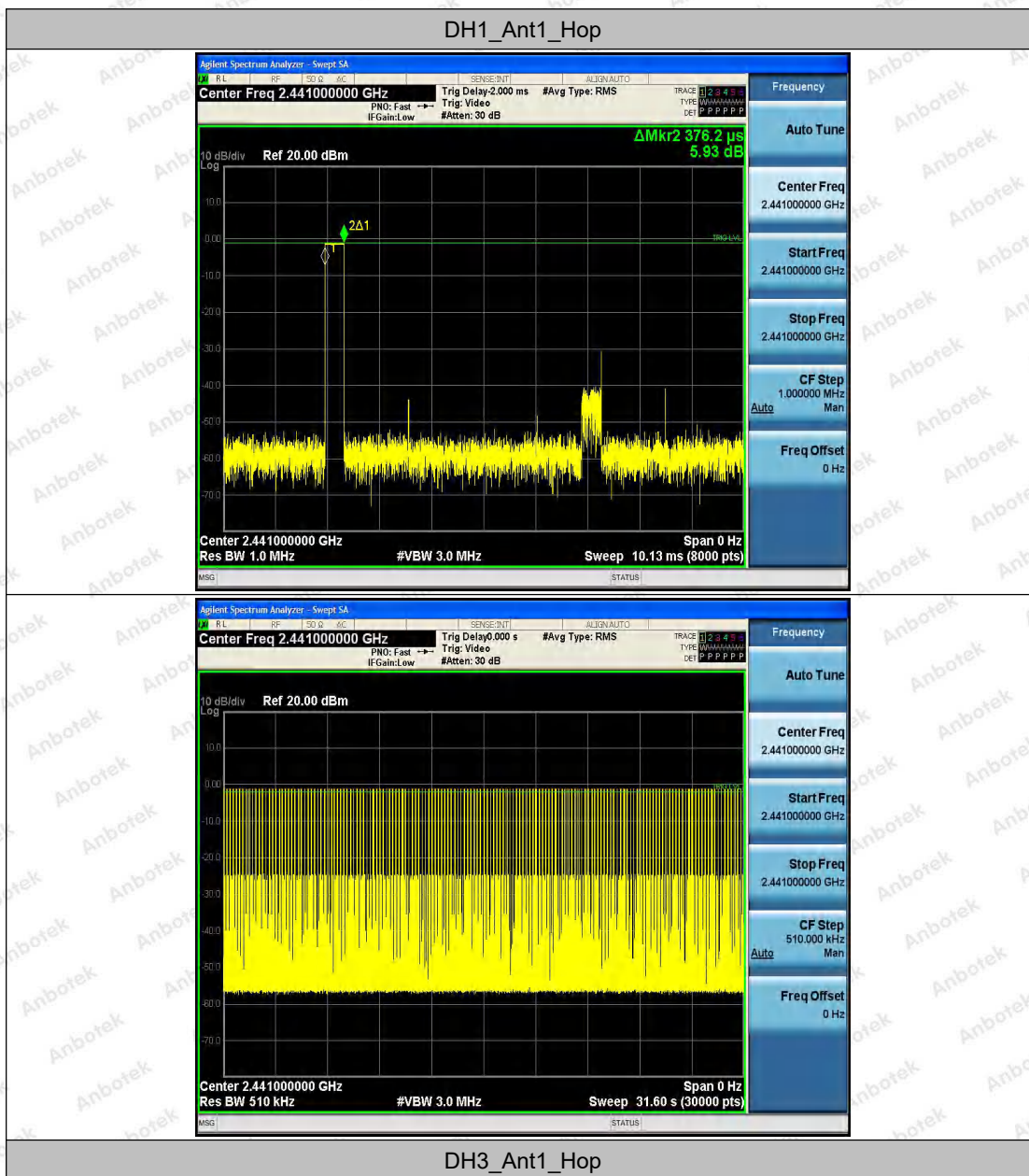
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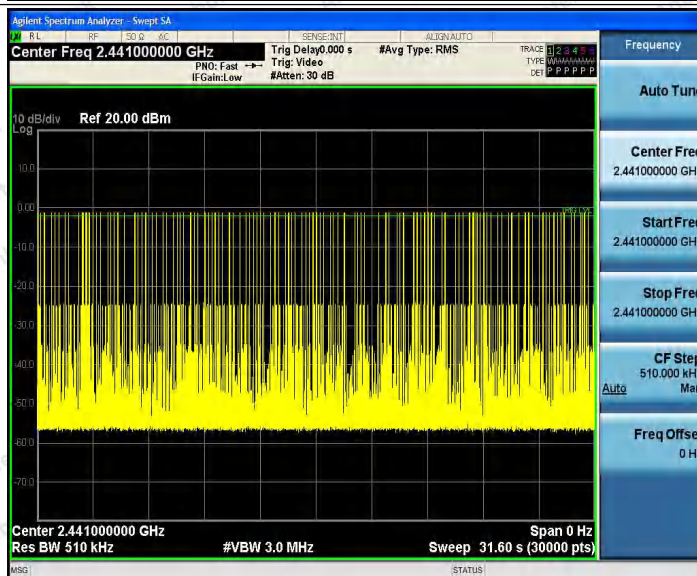
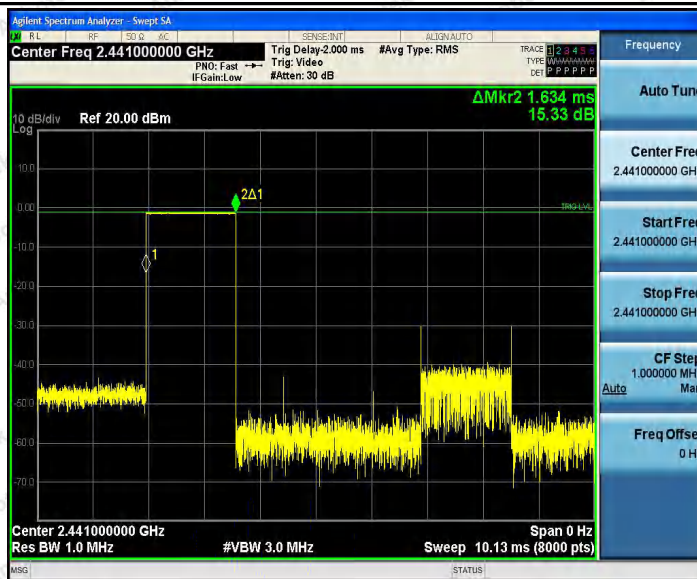
Appendix E: Time of occupancy

Test Result

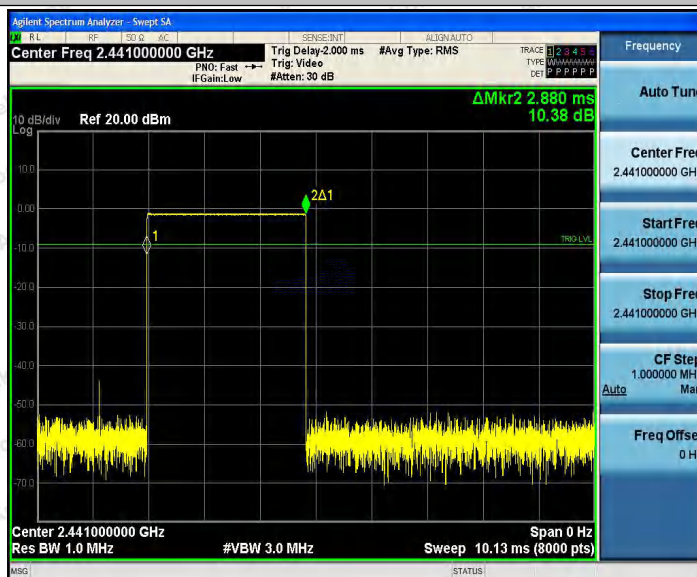
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.88	94	0.271	≤0.4	PASS
2DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.89	109	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.39	312	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	107	0.309	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop



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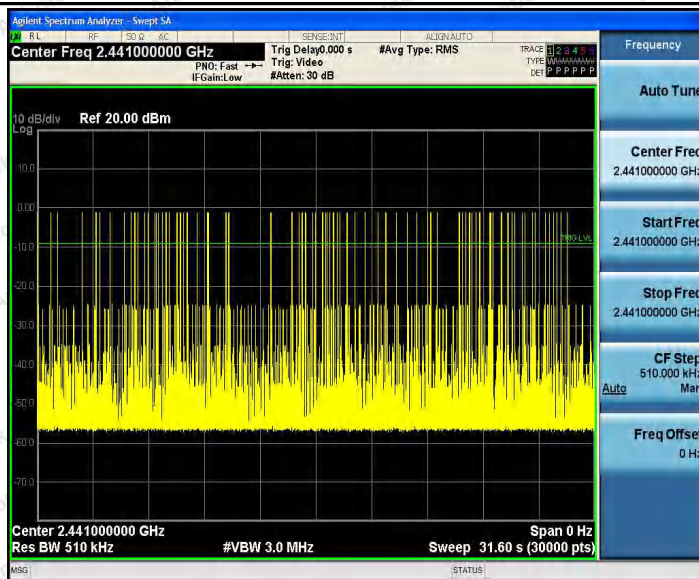
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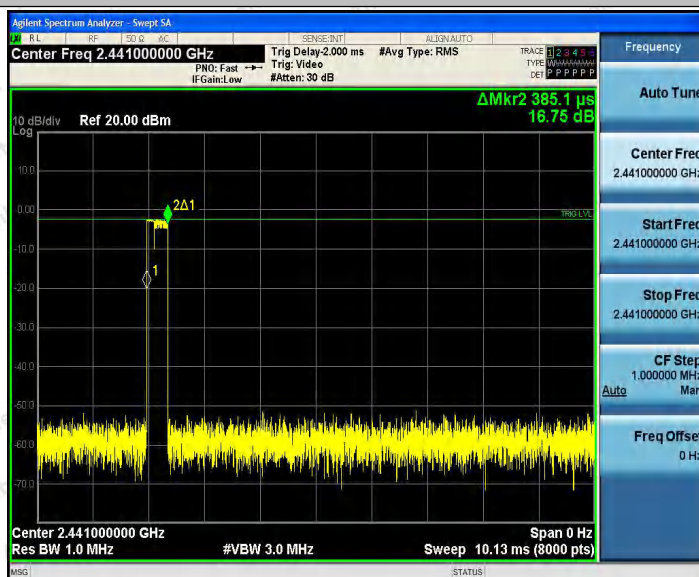
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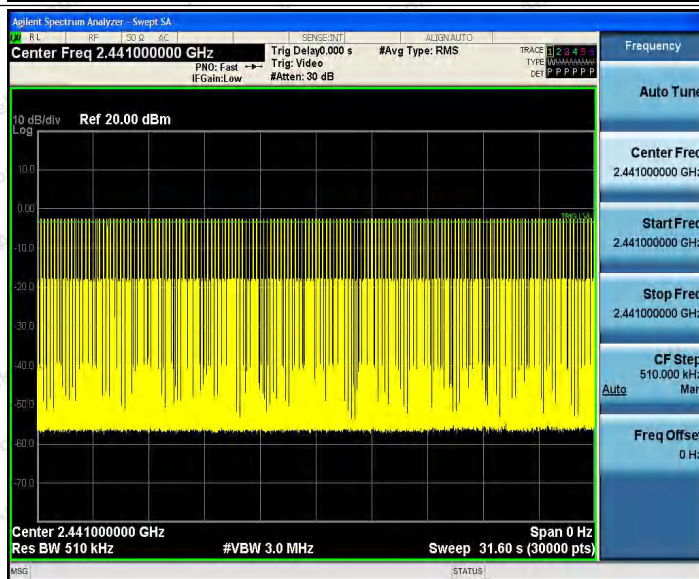
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

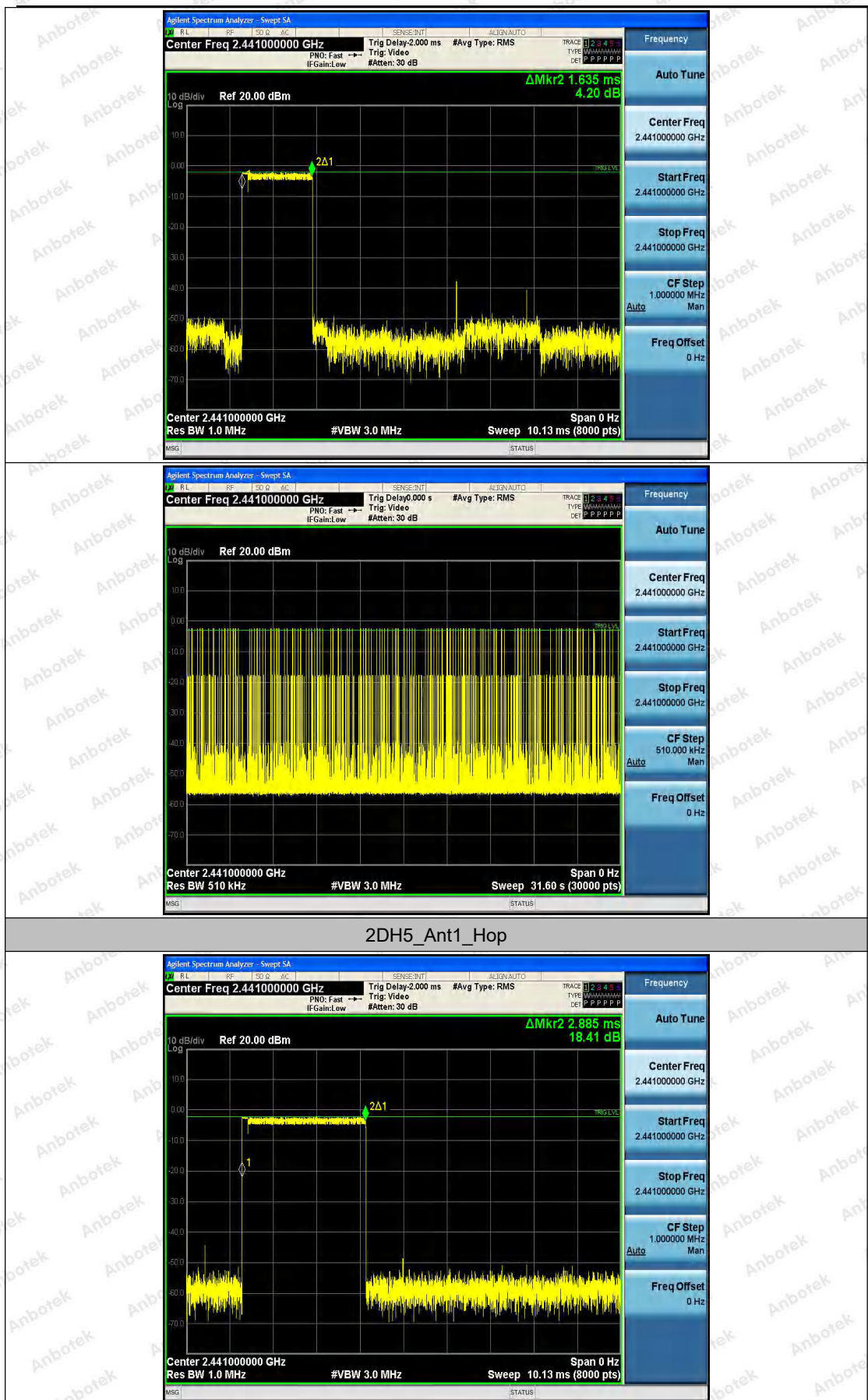


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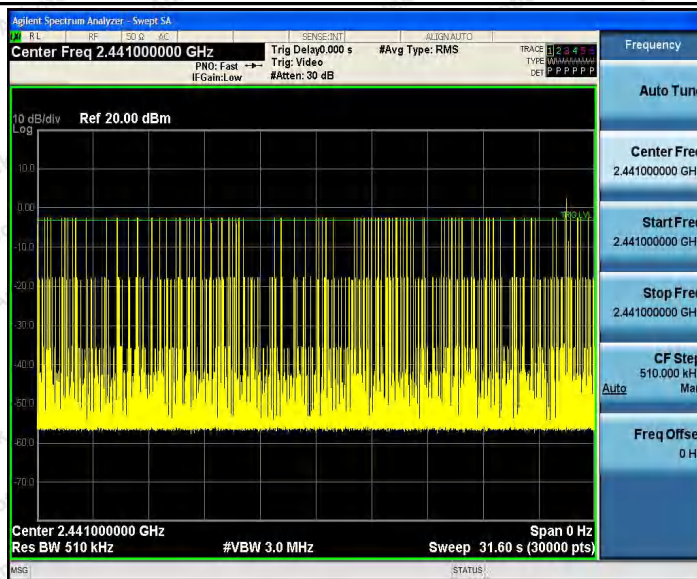


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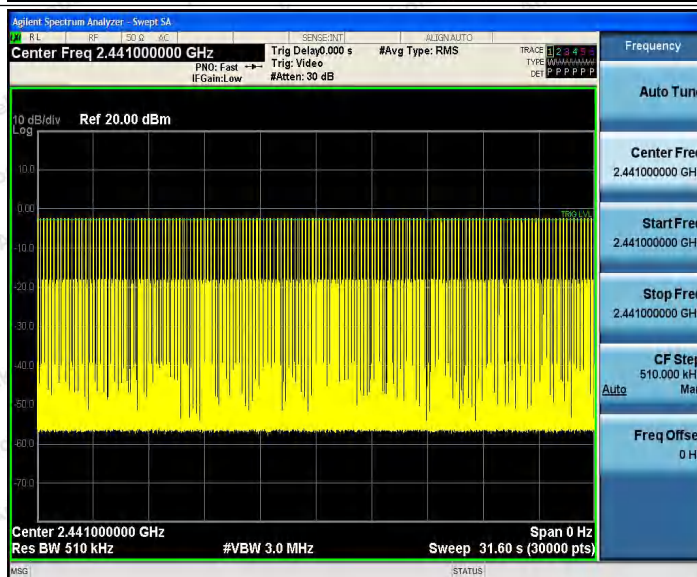
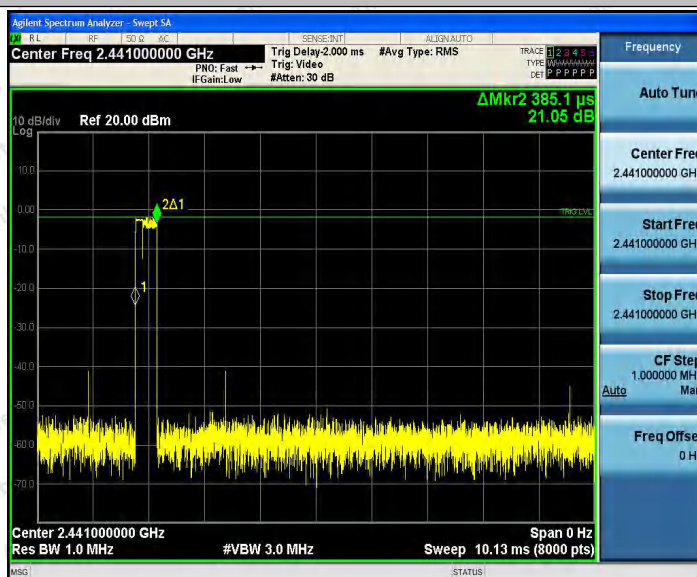
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3DH1_Ant1_Hop



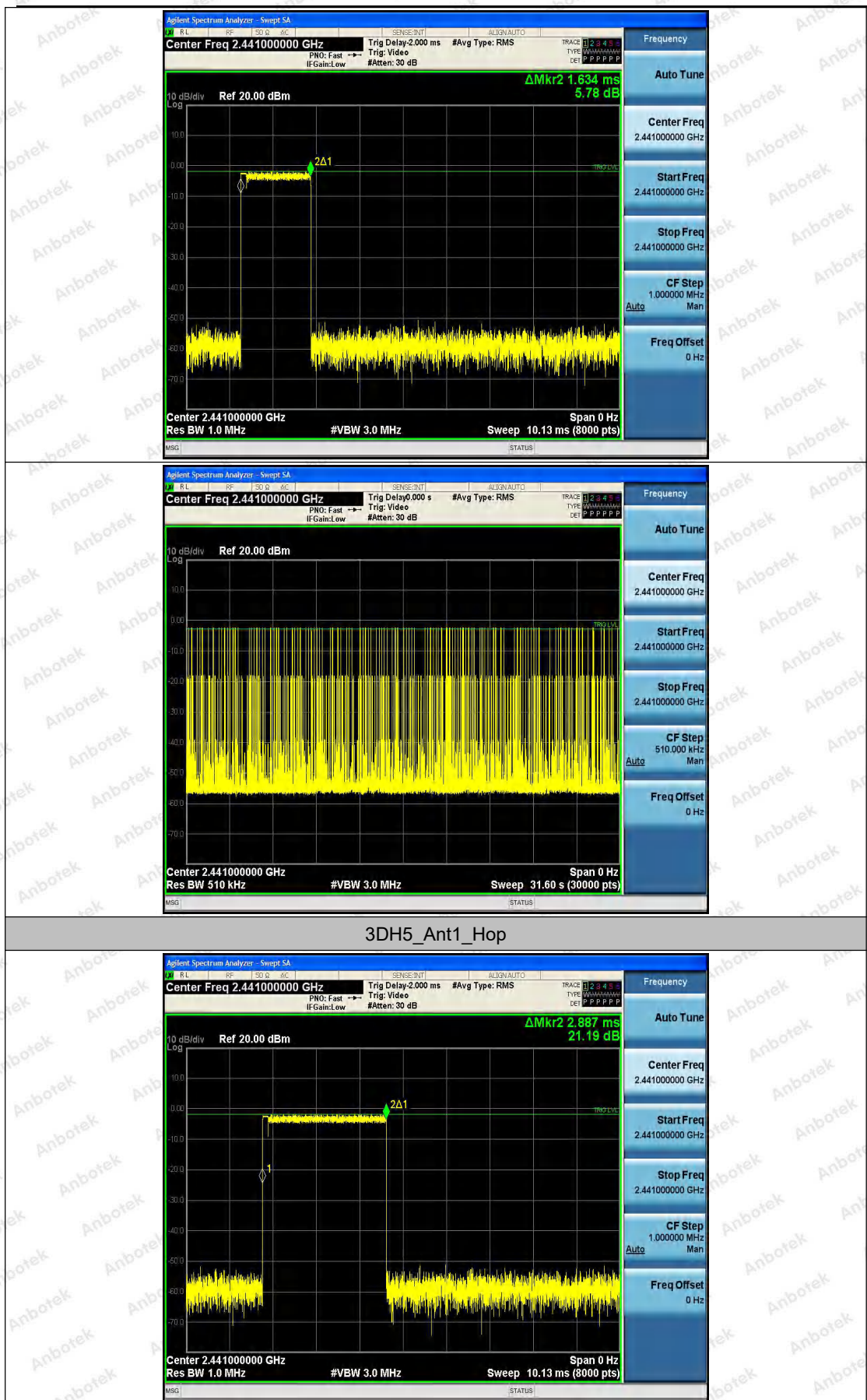
3DH3_Ant1_Hop

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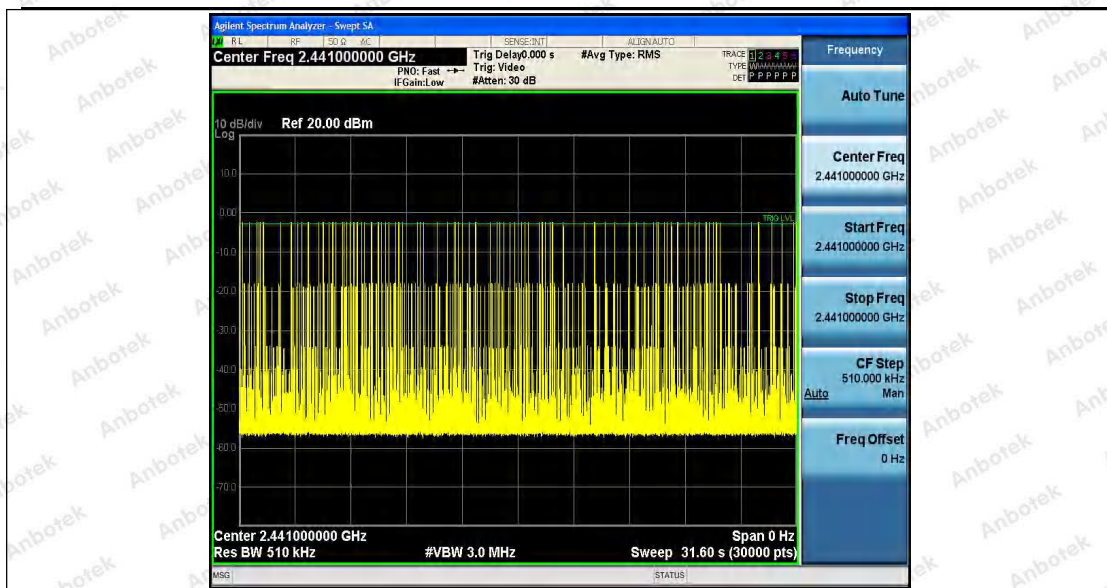
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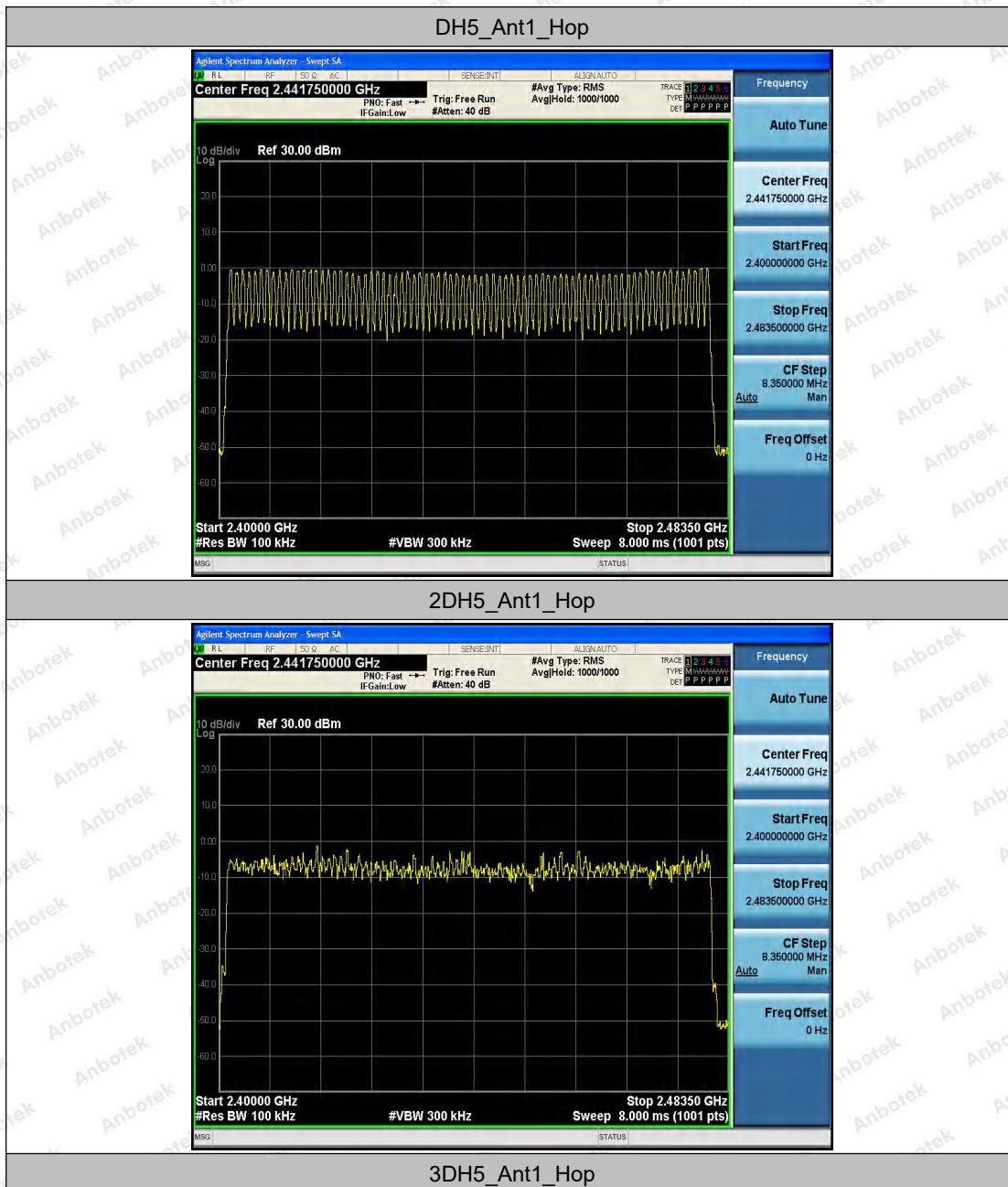
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Appendix F: Number of hopping channels

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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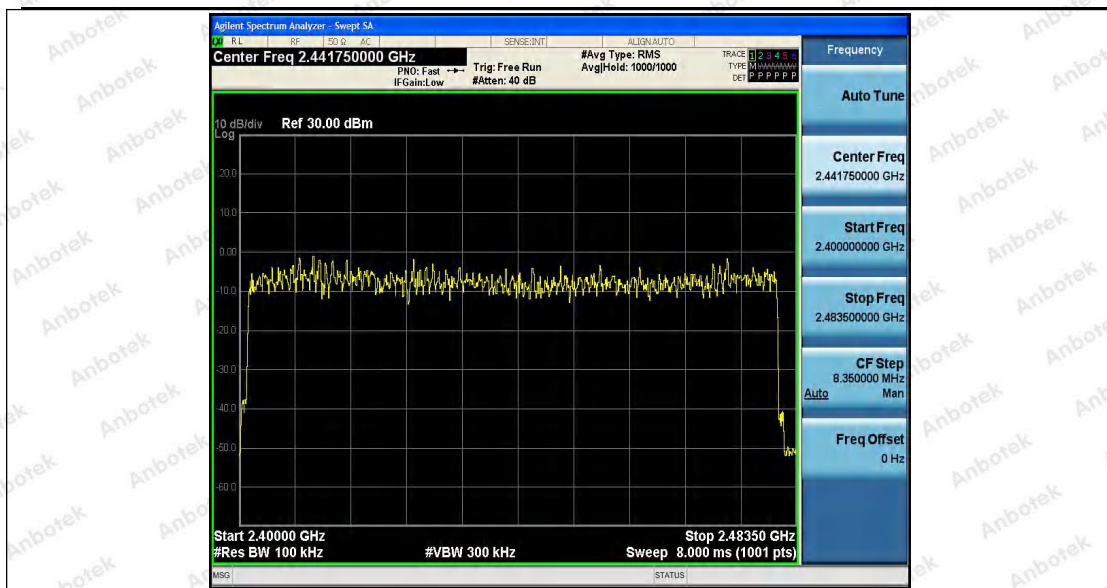
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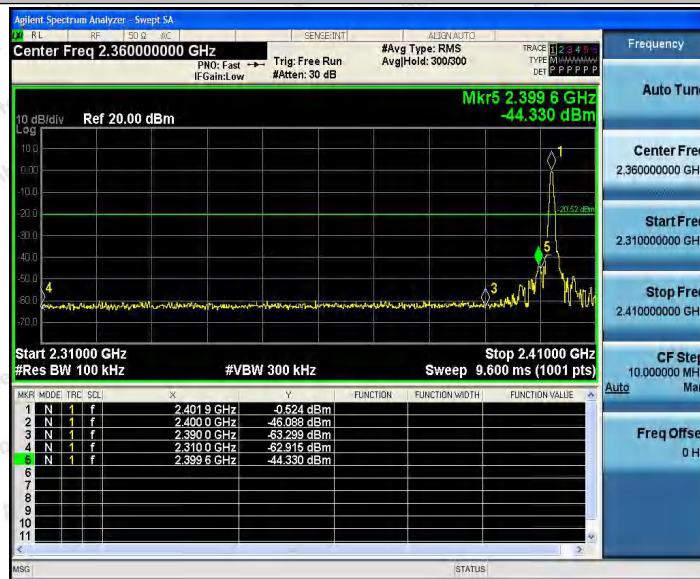
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.52	-44.33	≤-20.52	PASS
		High	2480	0.07	-51.29	≤-19.93	PASS
		Low	Hop	-0.61	-59.73	≤-20.61	PASS
		High	Hop	-0.81	-62.15	≤-20.81	PASS
2DH5	Ant1	Low	2402	-1.60	-46.65	≤-21.6	PASS
		High	2480	-1.94	-56.11	≤-21.94	PASS
		Low	Hop	-1.71	-60.13	≤-21.71	PASS
		High	Hop	-4.96	-61.63	≤-24.96	PASS
3DH5	Ant1	Low	2402	-1.28	-39.88	≤-21.28	PASS
		High	2480	-1.61	-54.12	≤-21.61	PASS
		Low	Hop	-4.25	-60.23	≤-24.25	PASS
		High	Hop	-1.86	-62.96	≤-21.86	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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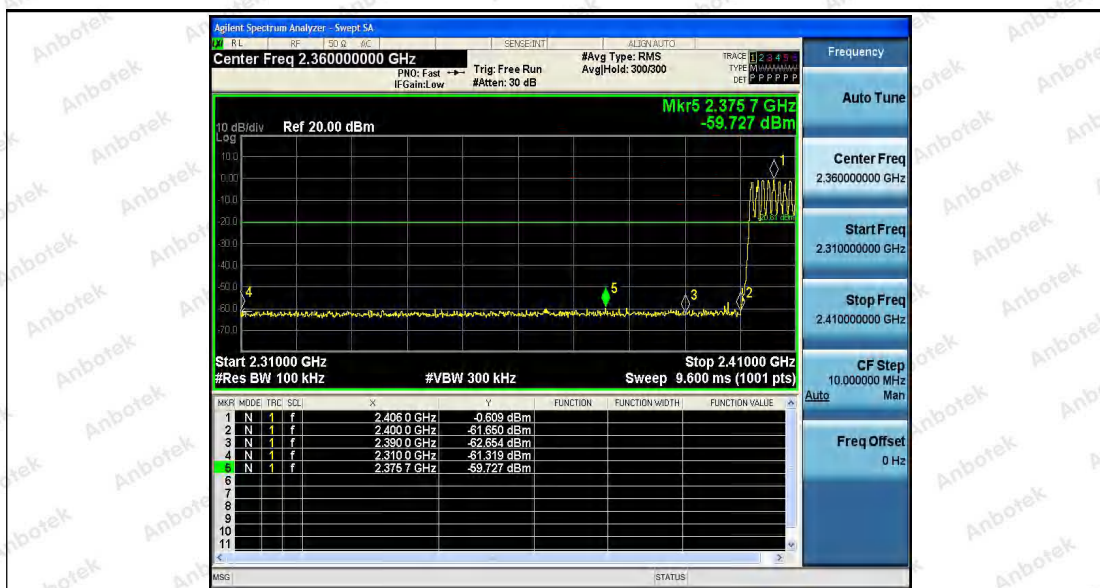
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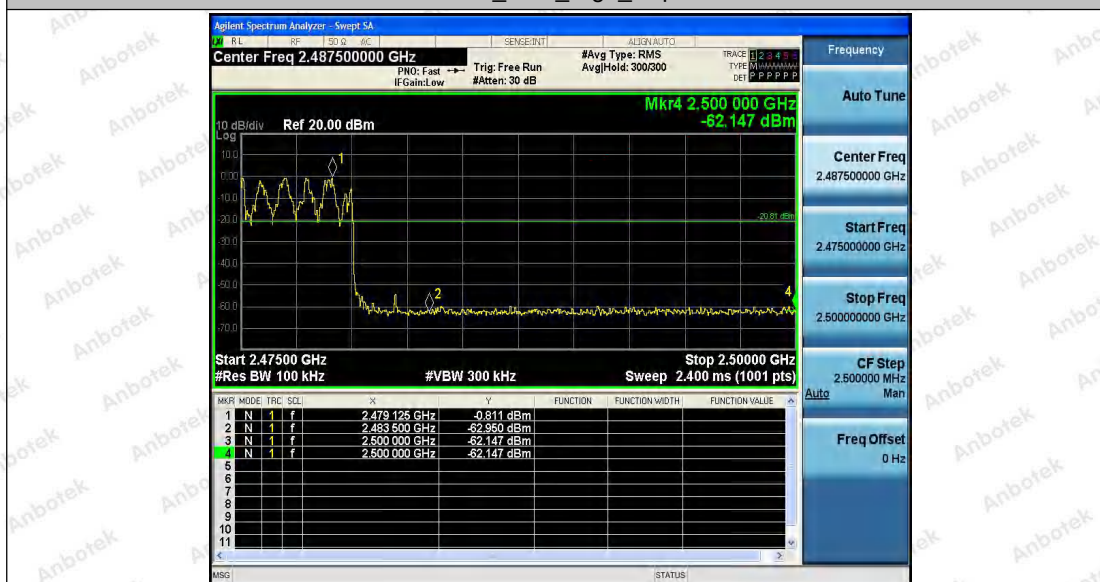
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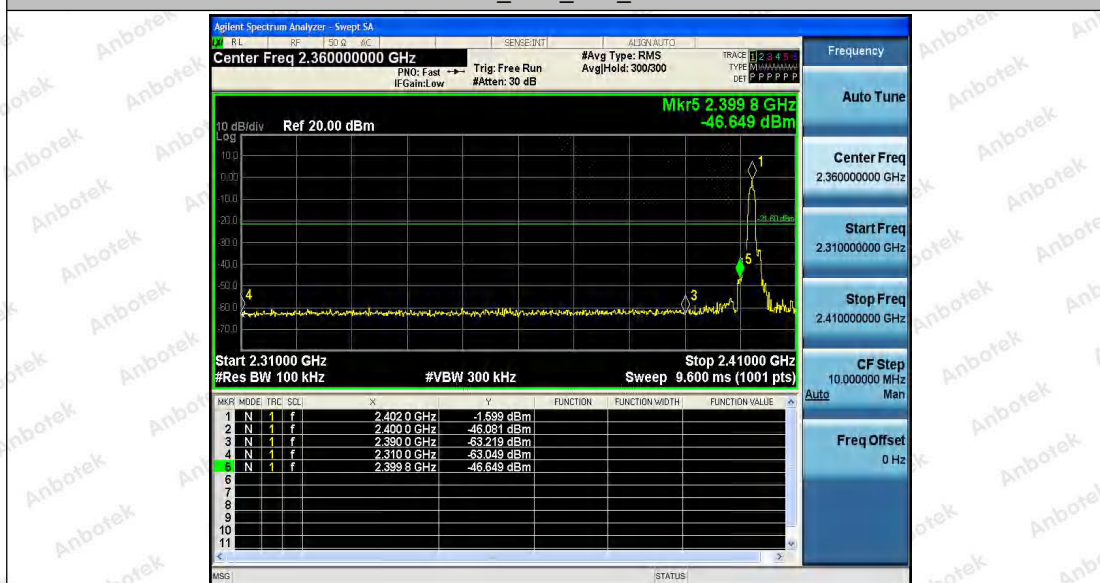
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



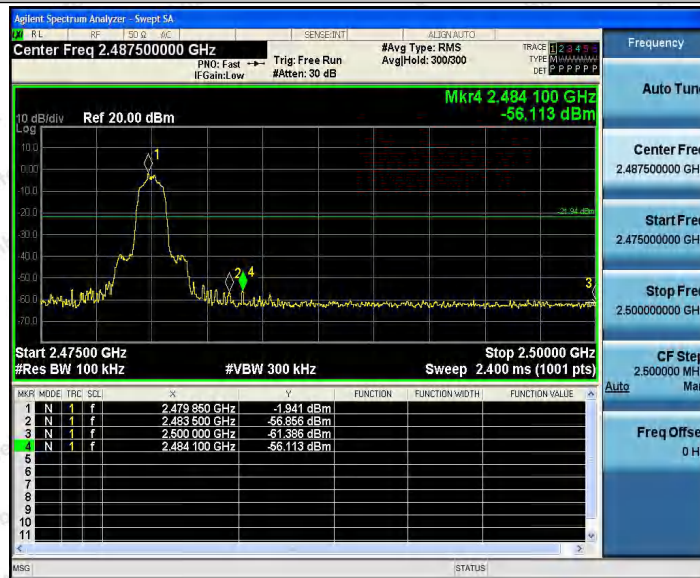
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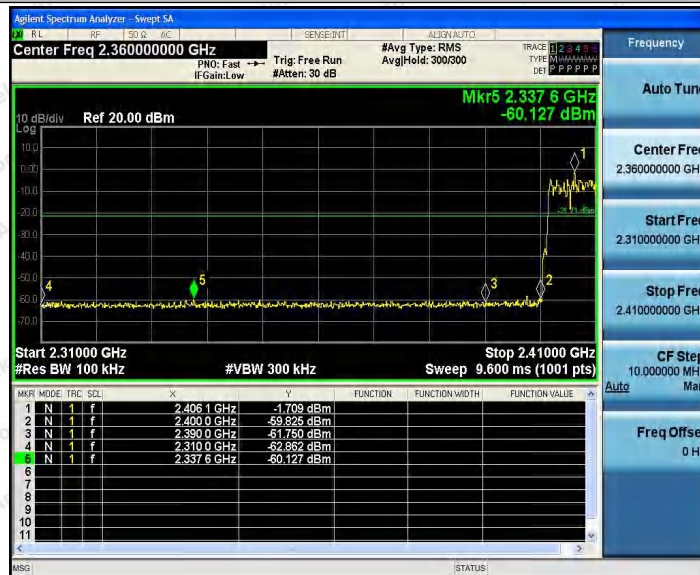
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



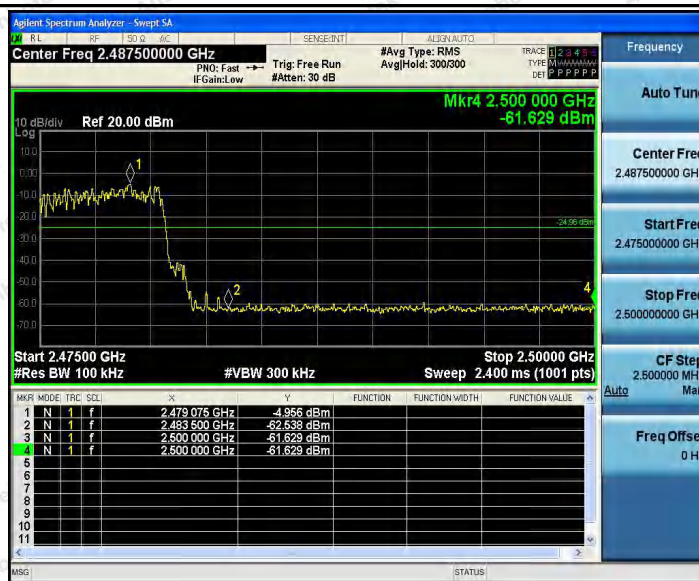
2DH5_Ant1_High_Hop

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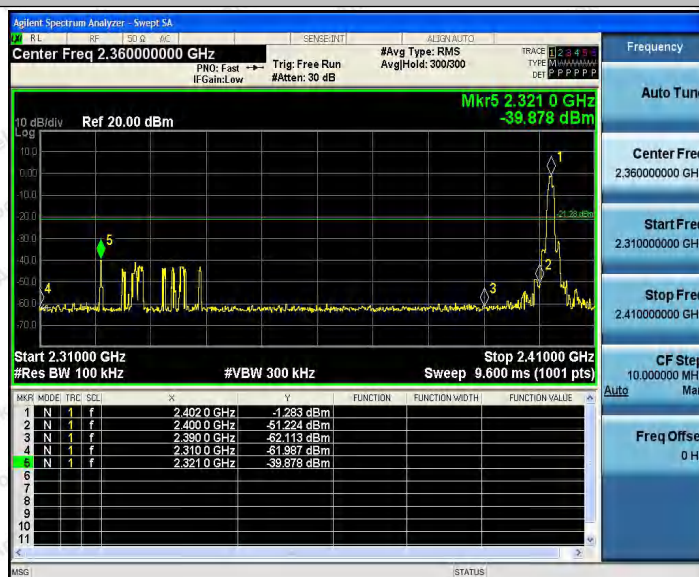
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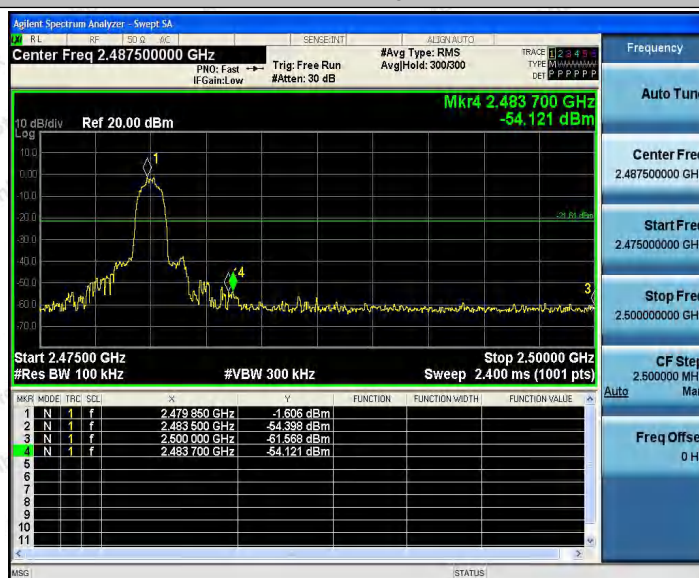
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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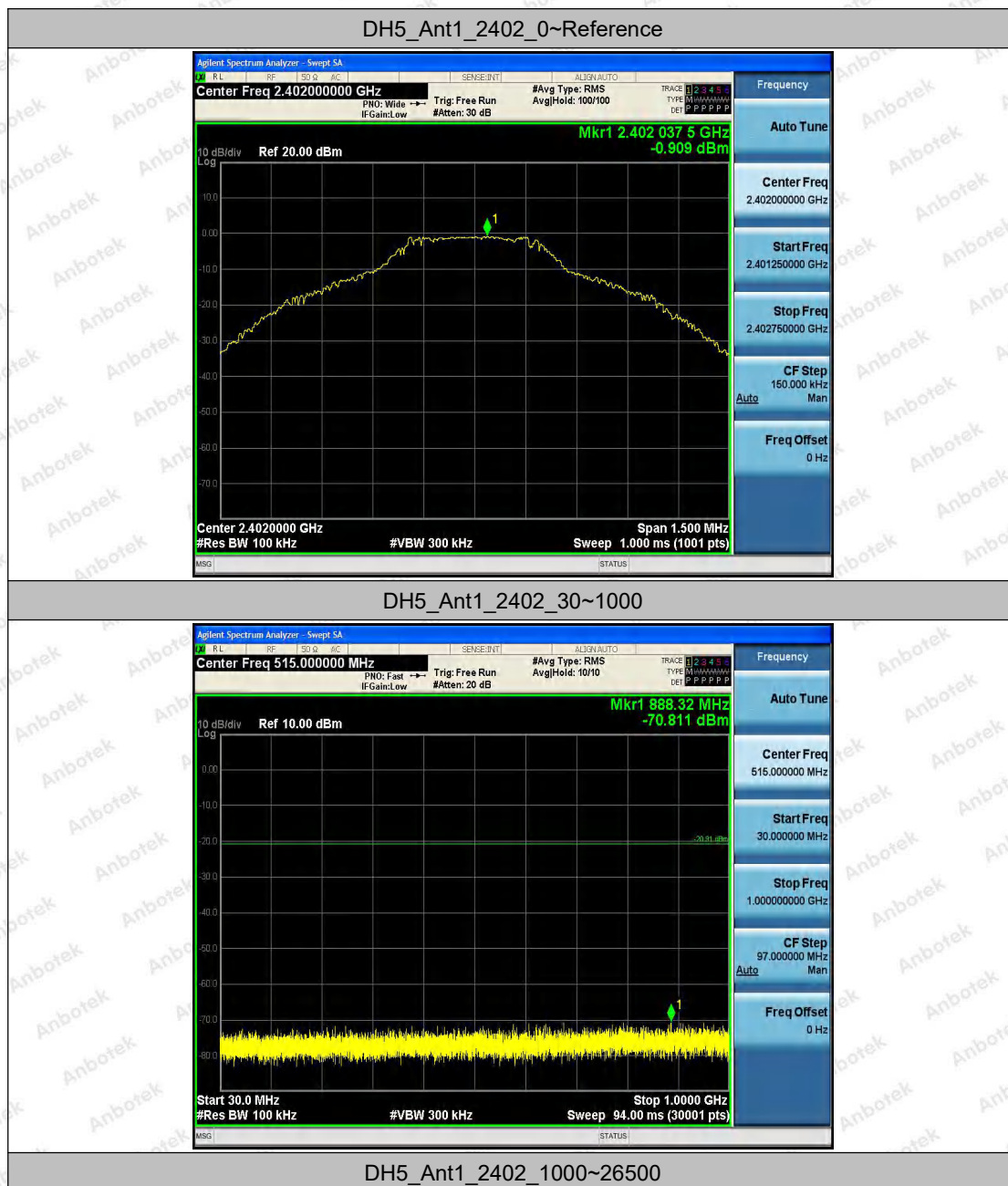
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-70.81	≤-20.91	PASS
			1000~26500	-0.91	-46.45	≤-20.91	PASS
		2441	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-61.04	≤-21.61	PASS
			1000~26500	-1.61	-46.25	≤-21.61	PASS
		2480	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-70.21	≤-20.14	PASS
			1000~26500	-0.14	-50.9	≤-20.14	PASS
2DH5	Ant1	2402	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-69.8	≤-21.38	PASS
			1000~26500	-1.38	-46.17	≤-21.38	PASS
		2441	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-69.67	≤-23.2	PASS
			1000~26500	-3.20	-50	≤-23.2	PASS
		2480	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-59.67	≤-21.63	PASS
			1000~26500	-1.63	-55.63	≤-21.63	PASS
3DH5	Ant1	2402	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-53.45	≤-21.77	PASS
			1000~26500	-1.77	-43.07	≤-21.77	PASS
		2441	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-63.21	≤-22.66	PASS
			1000~26500	-2.66	-50.78	≤-22.66	PASS
		2480	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-62.46	≤-21.45	PASS
			1000~26500	-1.45	-53.64	≤-21.45	PASS

Test Graphs

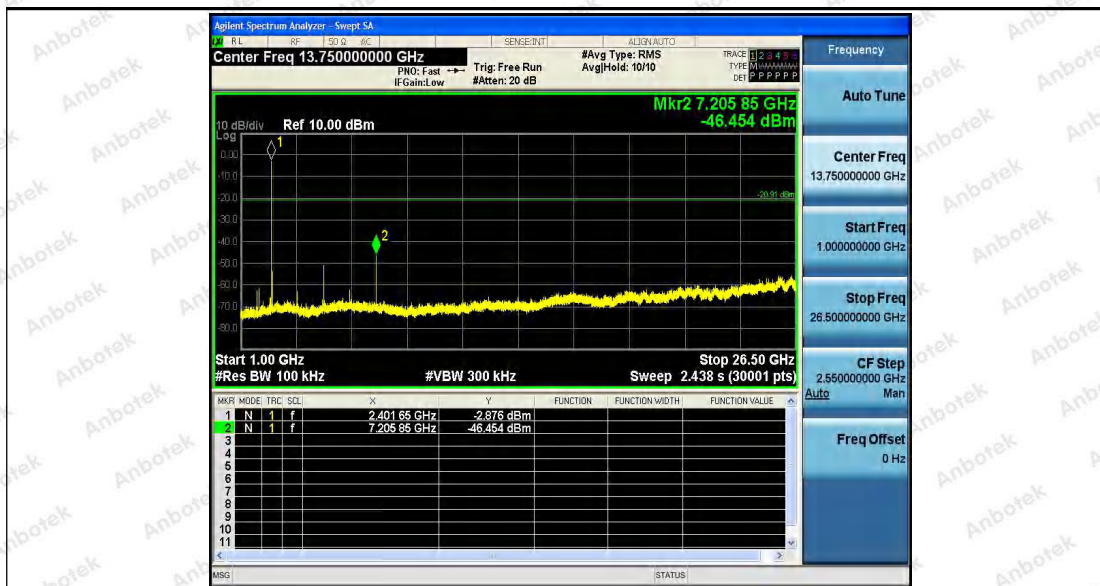


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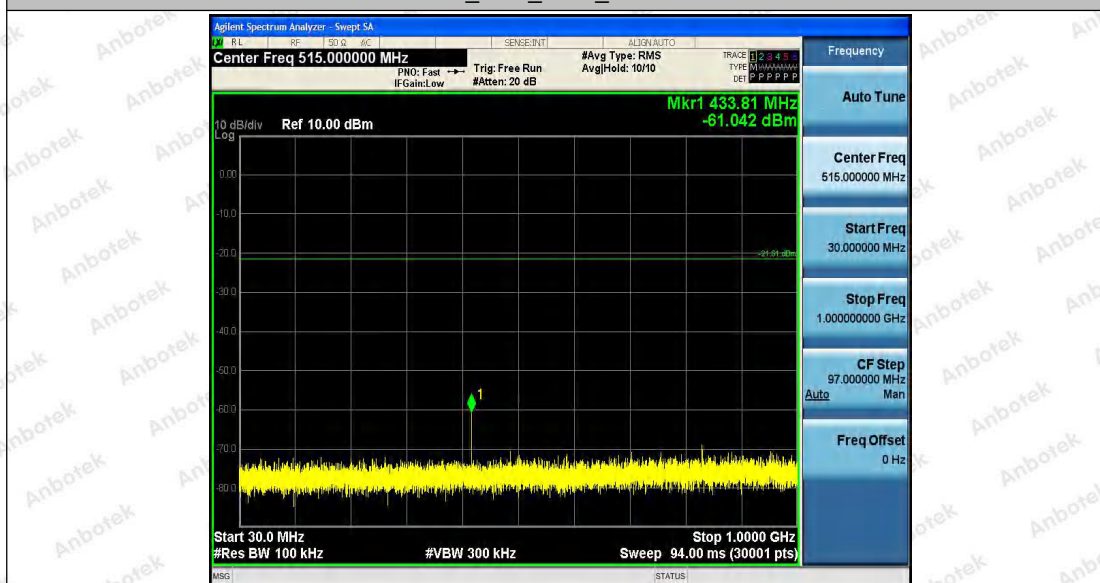
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DH5_Ant1_2441_0~Reference



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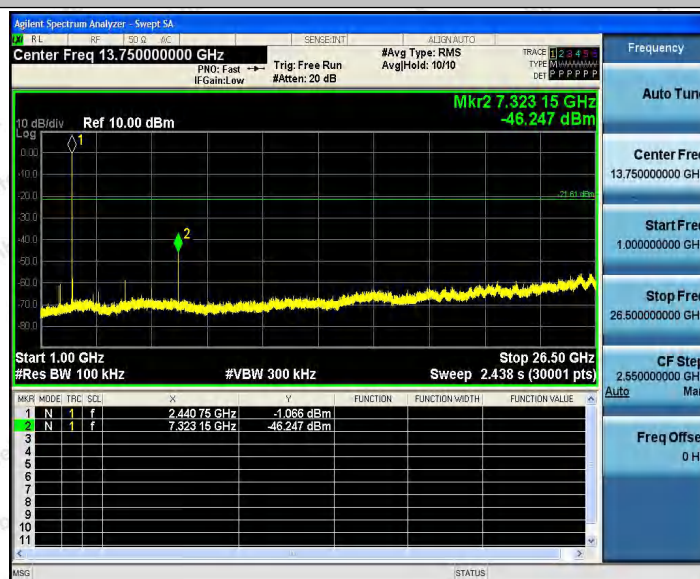
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DH5_Ant1_2441_1000~26500



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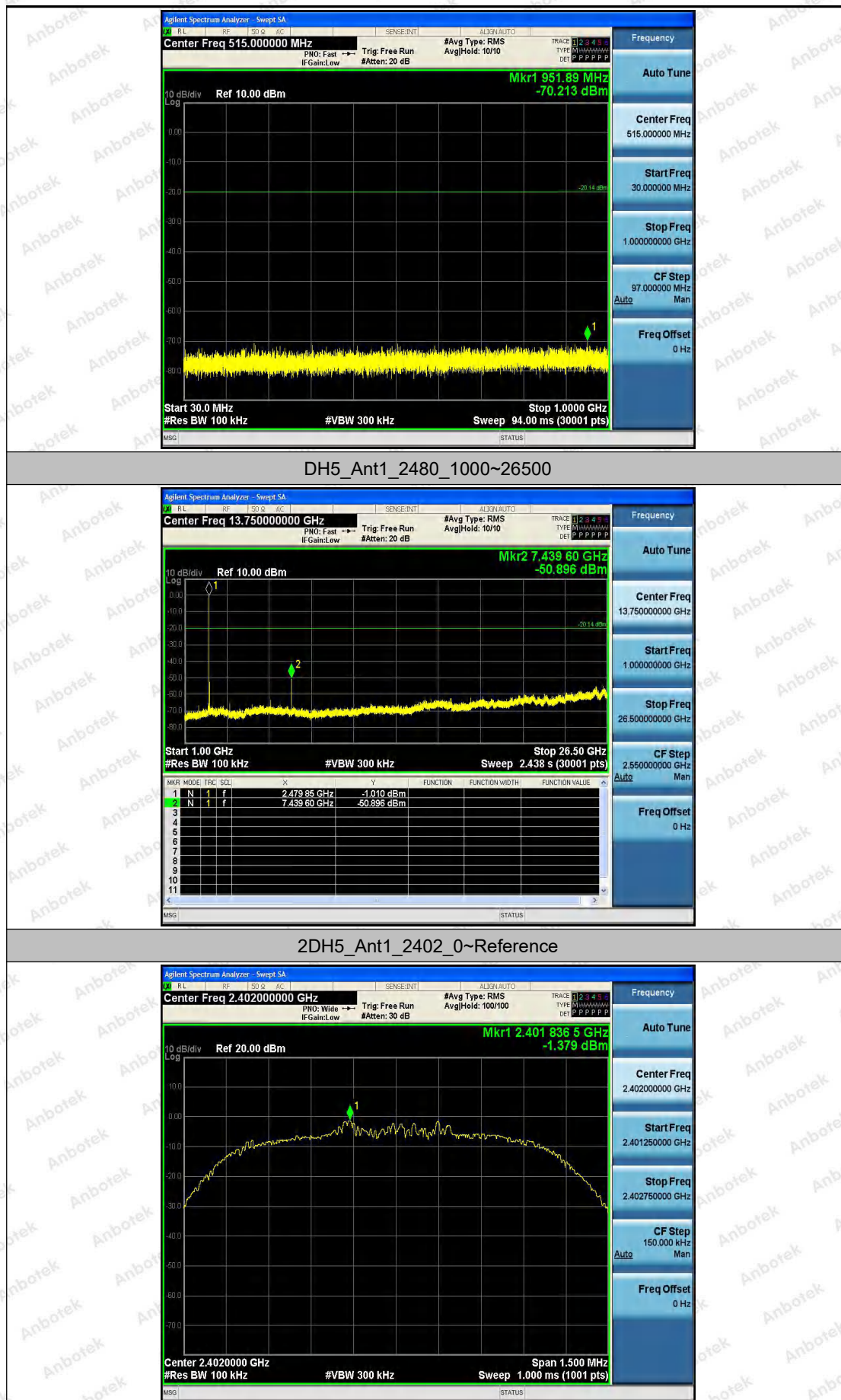
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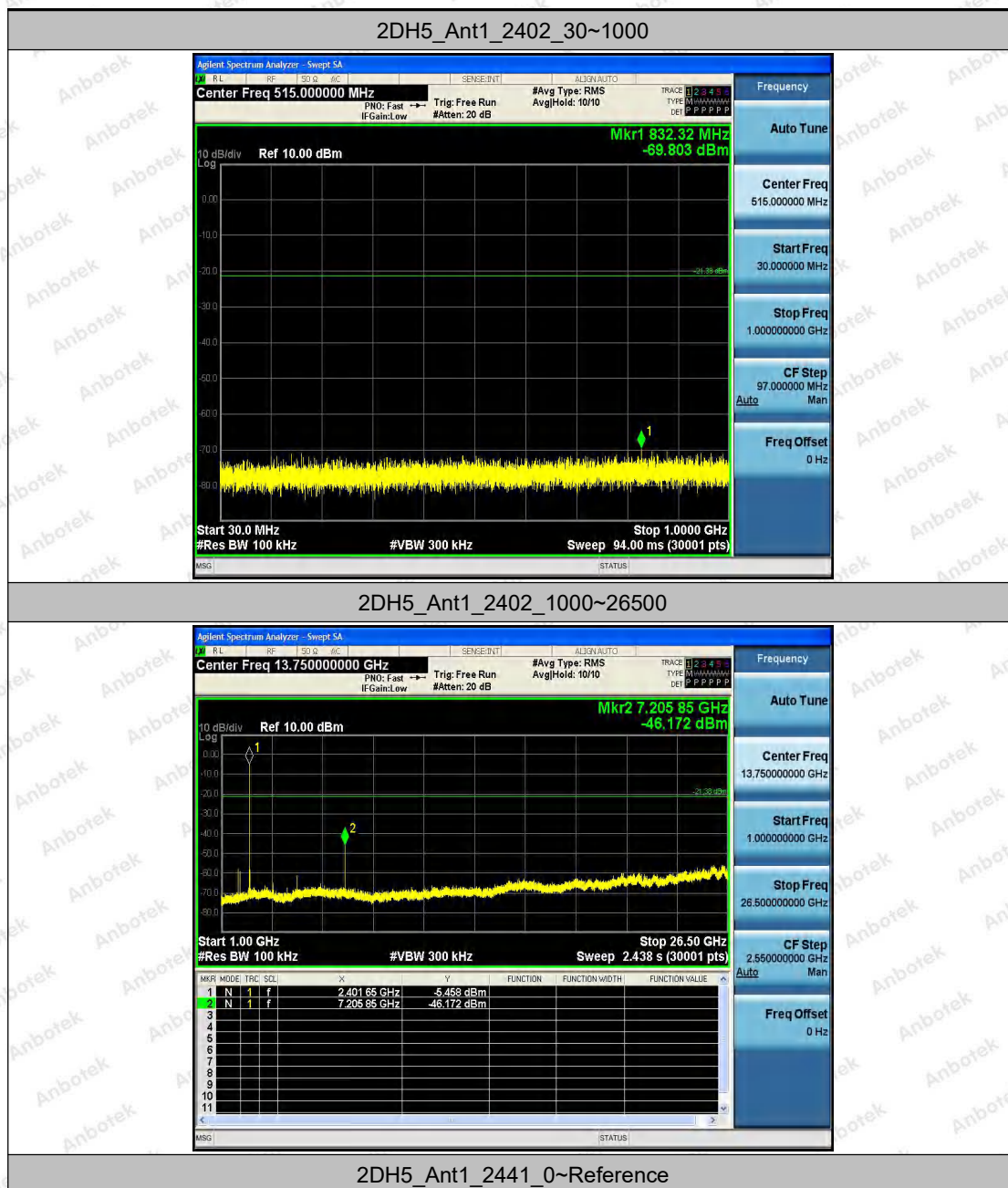


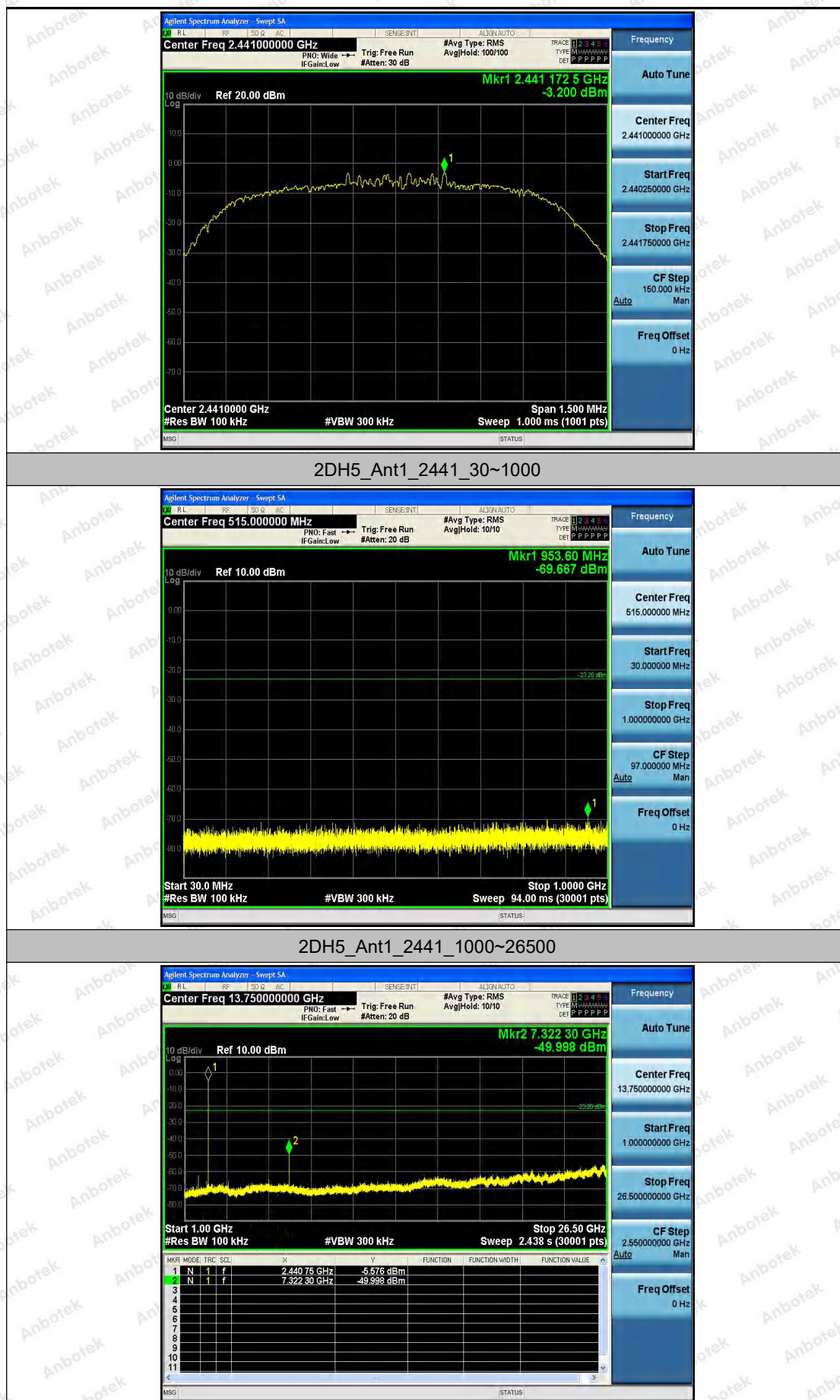
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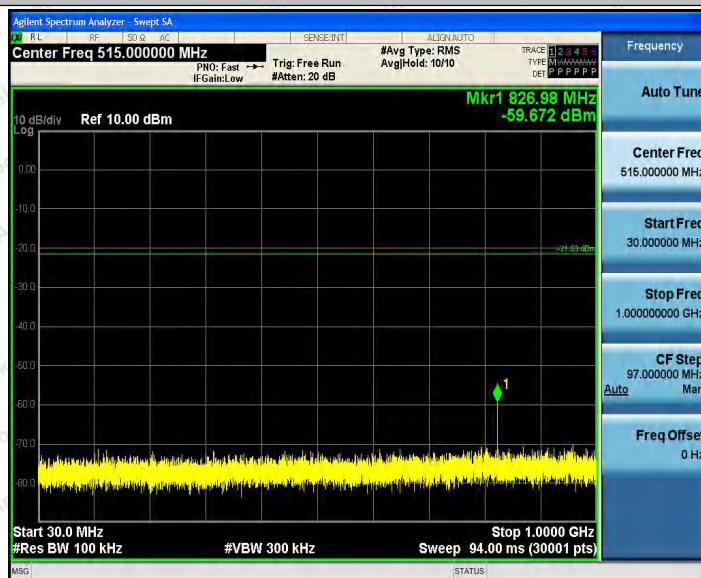
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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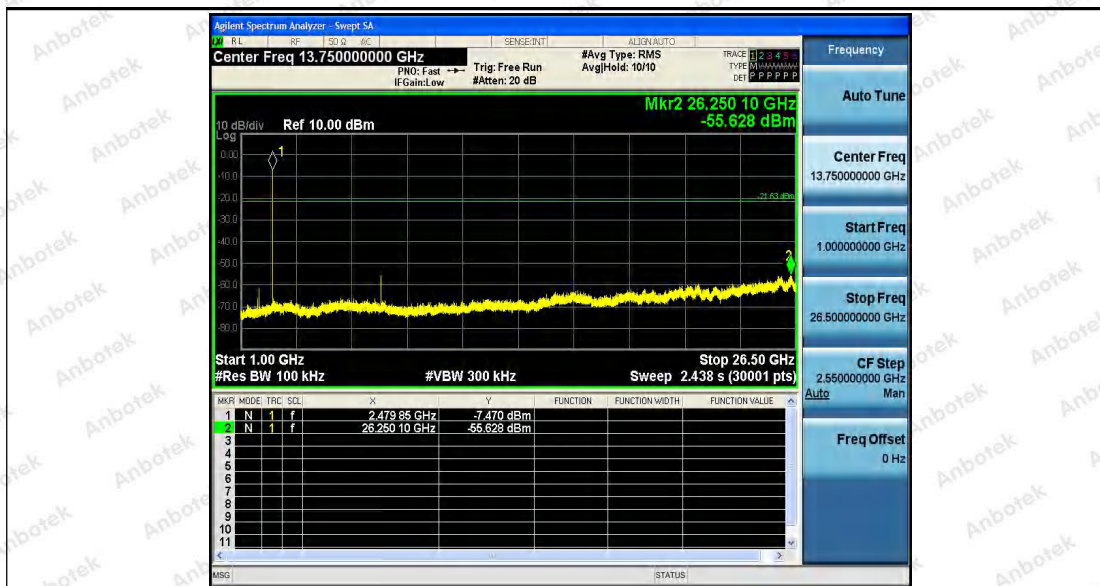
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

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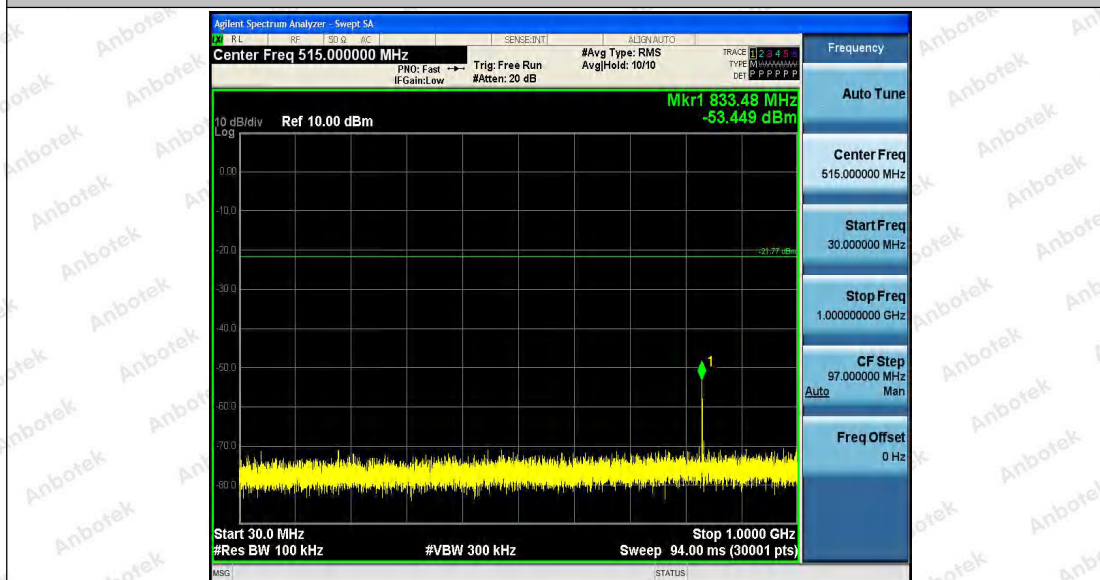
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3DH5_Ant1_2402_0~Reference



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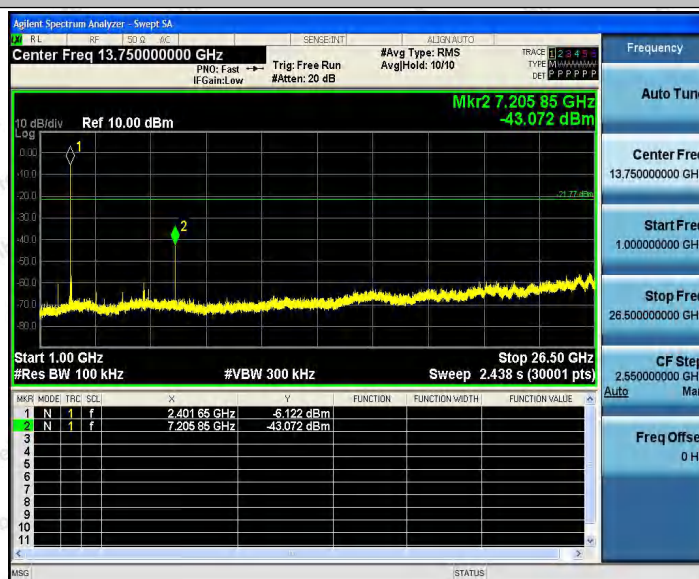
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



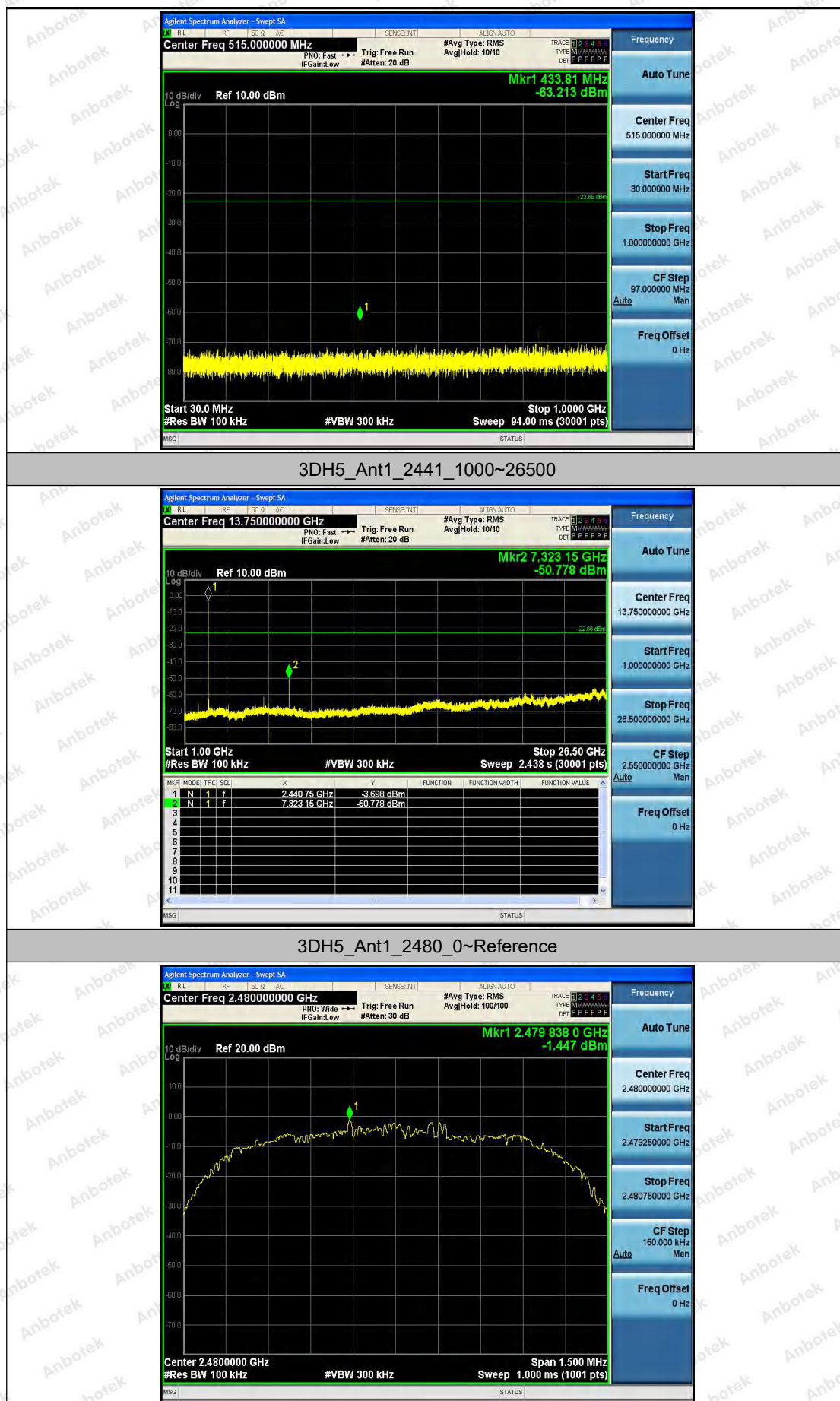
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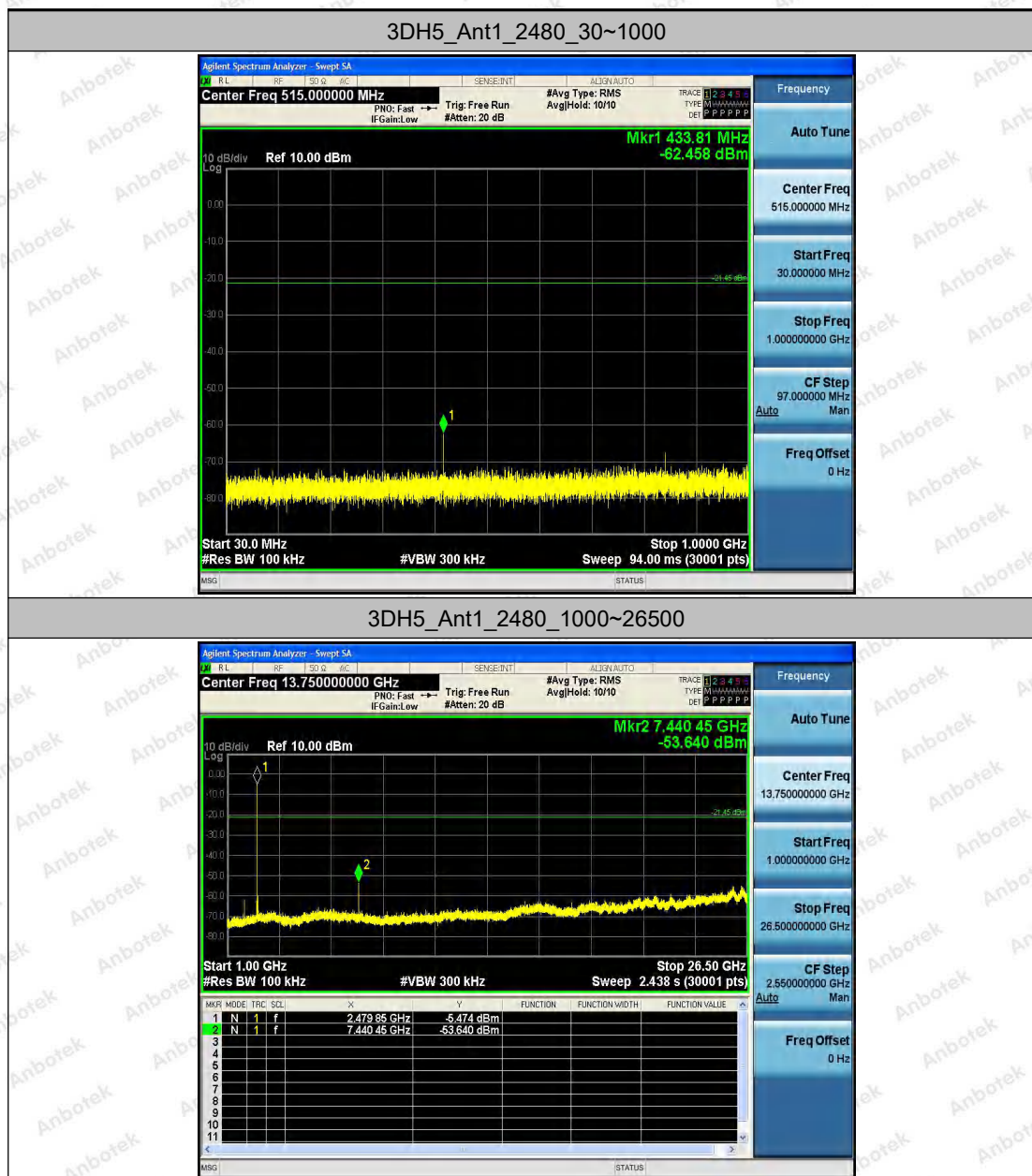
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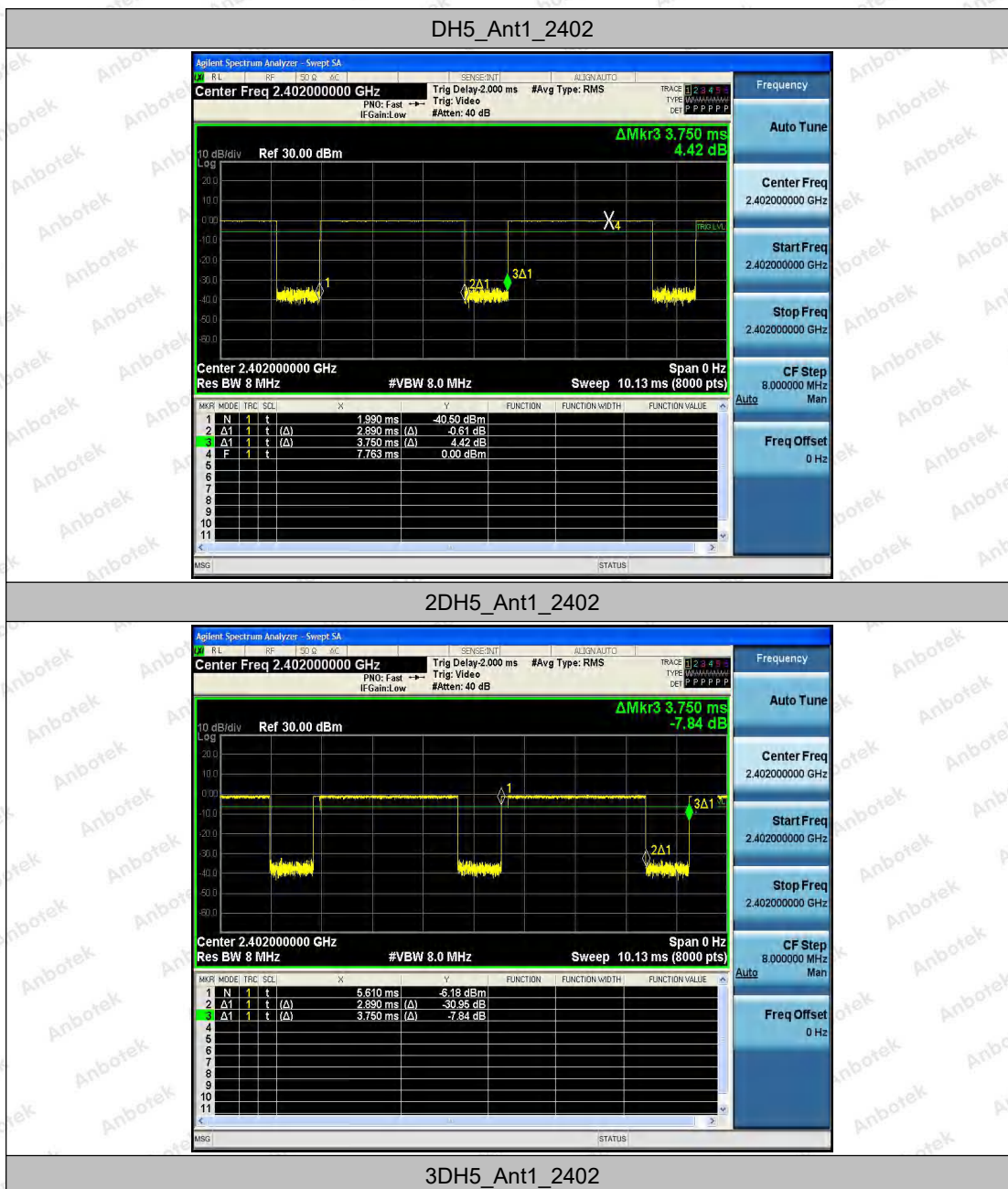
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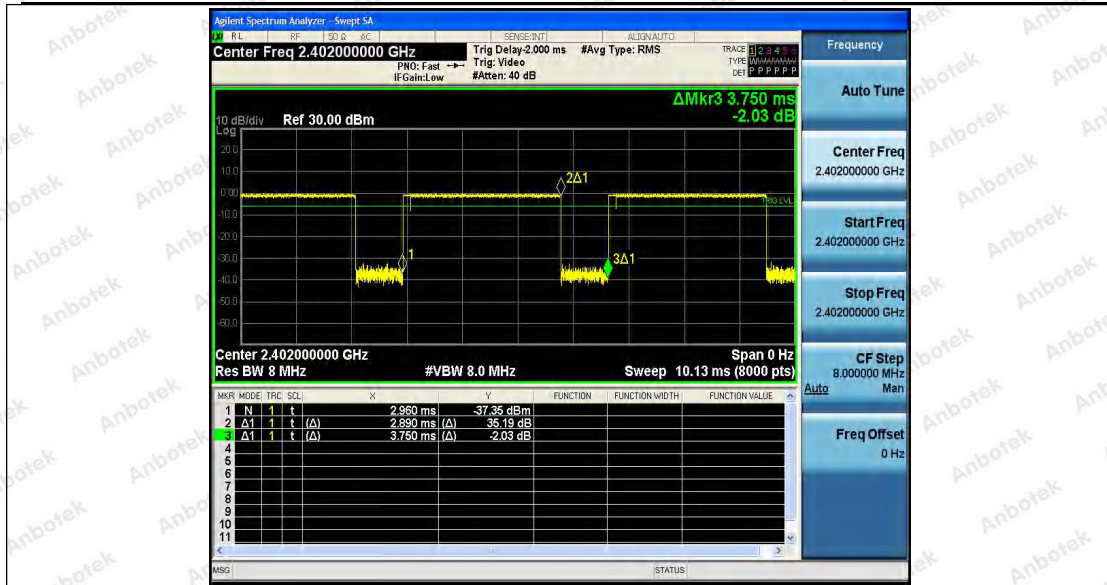
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---