

Appendix Test Data

Report No.:	18220WC10271201	Test Sample No.:	1-2-2
Start Test Date:	2021.12.9	Finish Test Date:	2021.12.10
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	2401.535	2402.483	---	PASS
		2441	0.939	2440.535	2441.474	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.323	2440.334	2441.657	---	PASS
		2480	1.260	2479.364	2480.624	---	PASS
3DH5	Ant1	2402	1.320	2401.337	2402.657	---	PASS
		2441	1.275	2440.343	2441.618	---	PASS
		2480	1.335	2479.322	2480.657	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

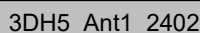


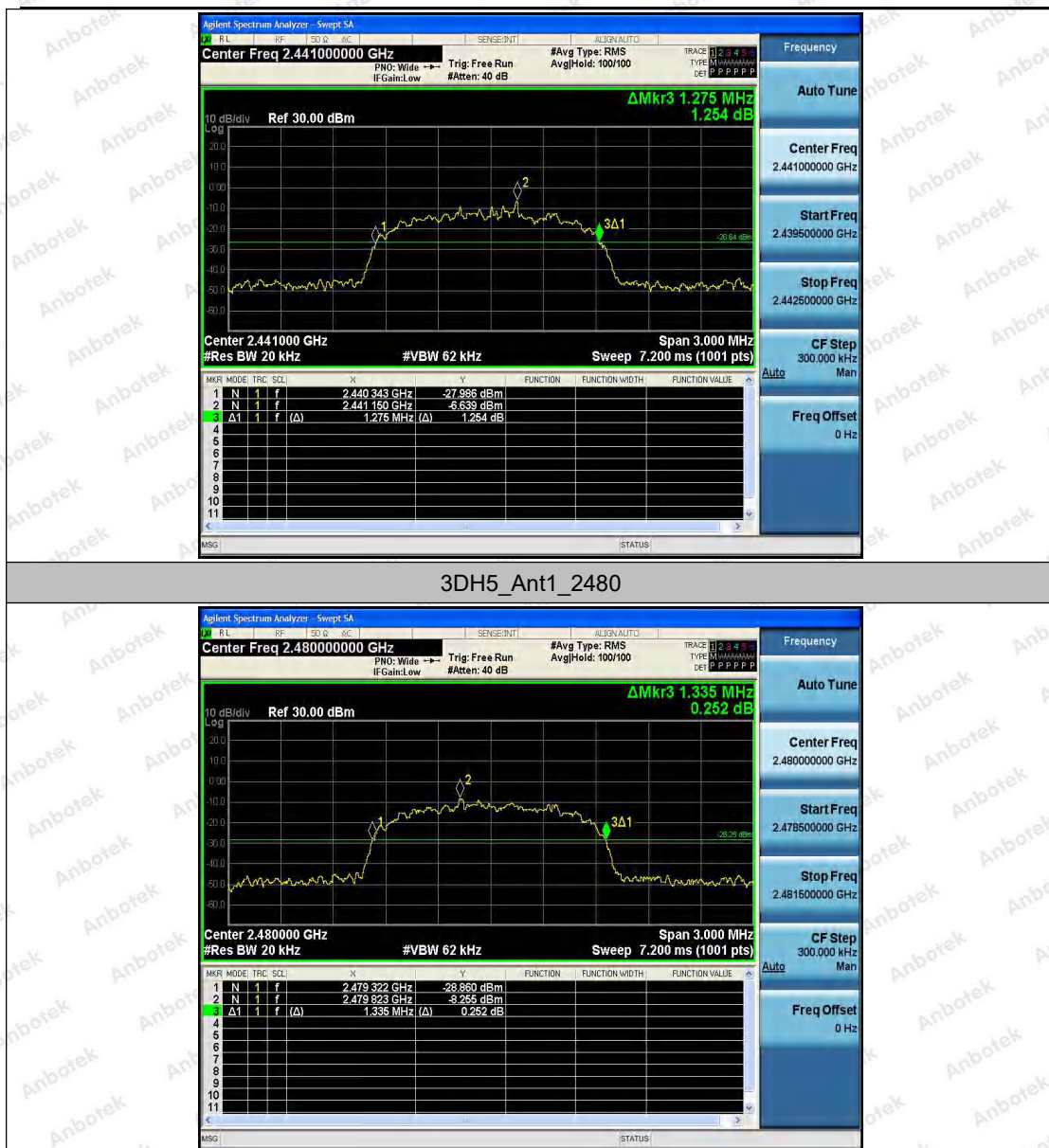
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89069	2401.55 5	2402.445	---	PASS
		2441	0.89219	2440.54 9	2441.442	---	PASS
		2480	0.89120	2479.55 2	2480.443	---	PASS
2DH5	Ant1	2402	1.1918	2401.40 1	2402.592	---	PASS
		2441	1.1853	2440.40 4	2441.589	---	PASS
		2480	1.1800	2479.40 6	2480.586	---	PASS
3DH5	Ant1	2402	1.2086	2401.38 2	2402.591	---	PASS
		2441	1.1989	2440.38 8	2441.586	---	PASS
		2480	1.2051	2479.38 4	2480.589	---	PASS

Test Graphs



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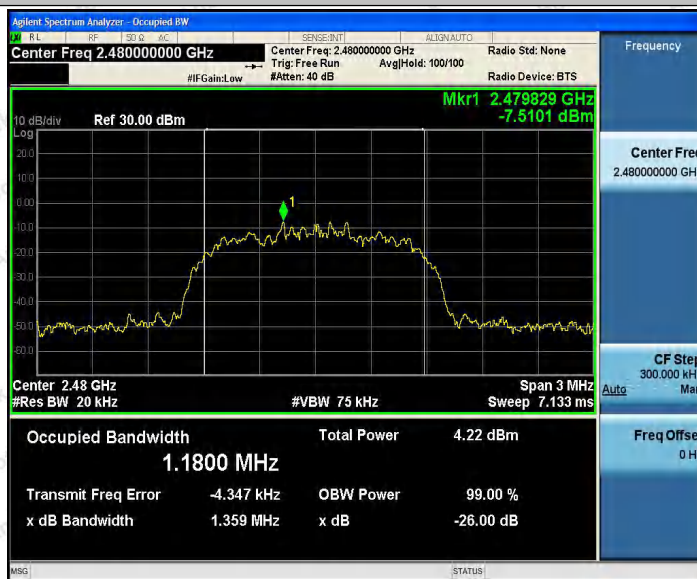
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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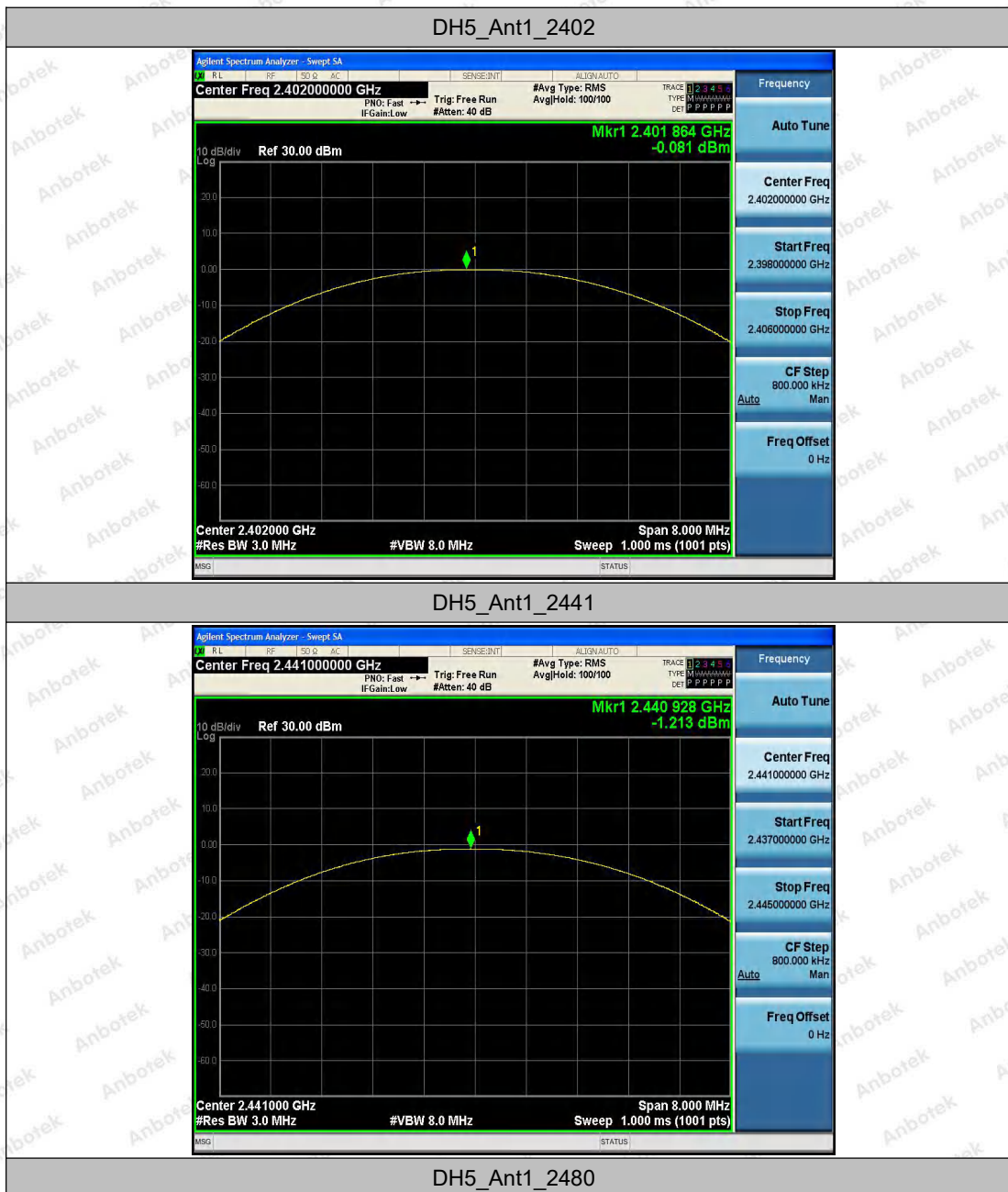
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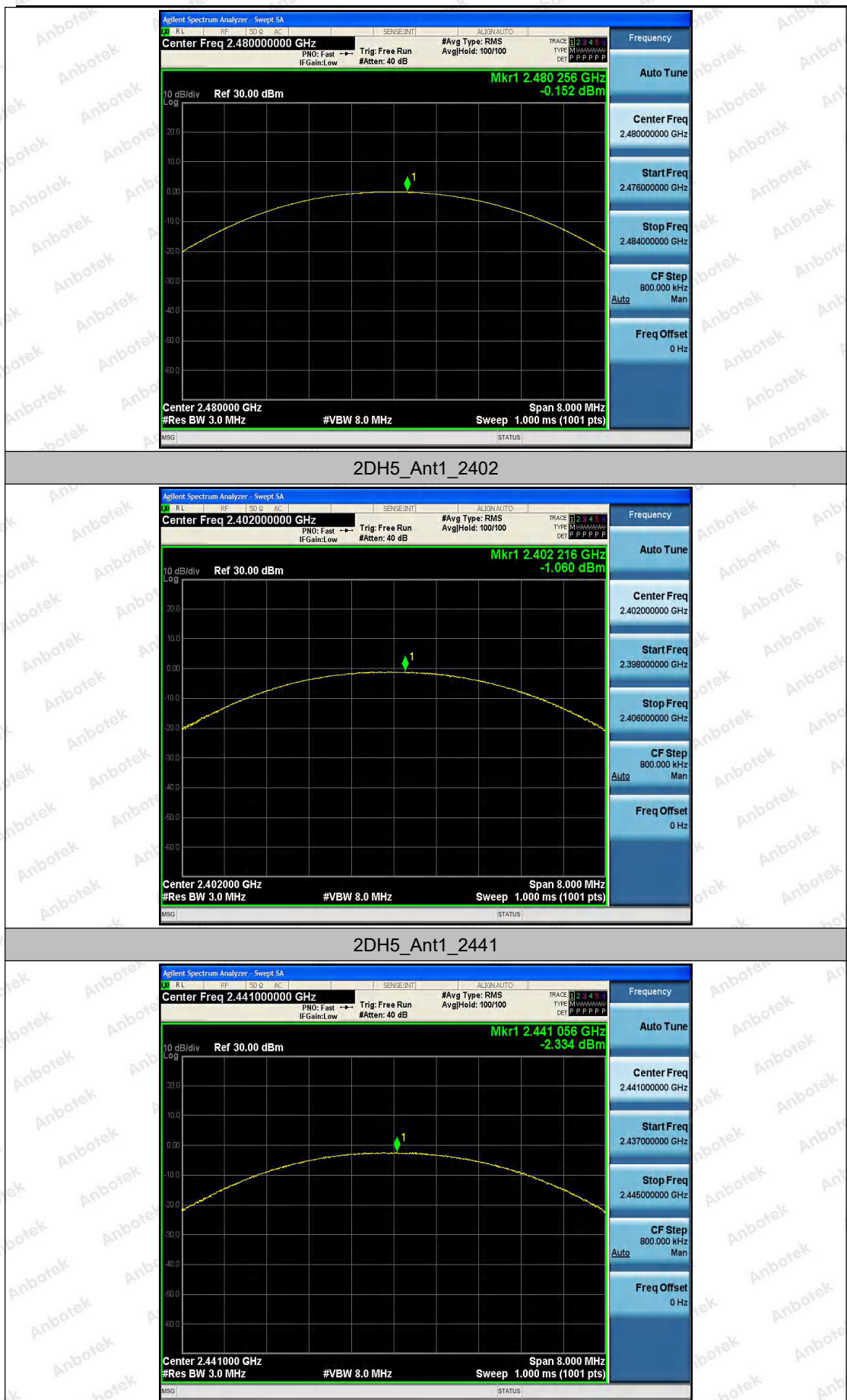
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.08	≤20.97	PASS
		2441	-1.21	≤20.97	PASS
		2480	-0.15	≤20.97	PASS
2DH5	Ant1	2402	-1.06	≤20.97	PASS
		2441	-2.33	≤20.97	PASS
		2480	-0.87	≤20.97	PASS
3DH5	Ant1	2402	-0.54	≤20.97	PASS
		2441	-1.63	≤20.97	PASS
		2480	-0.1	≤20.97	PASS

Test Graphs





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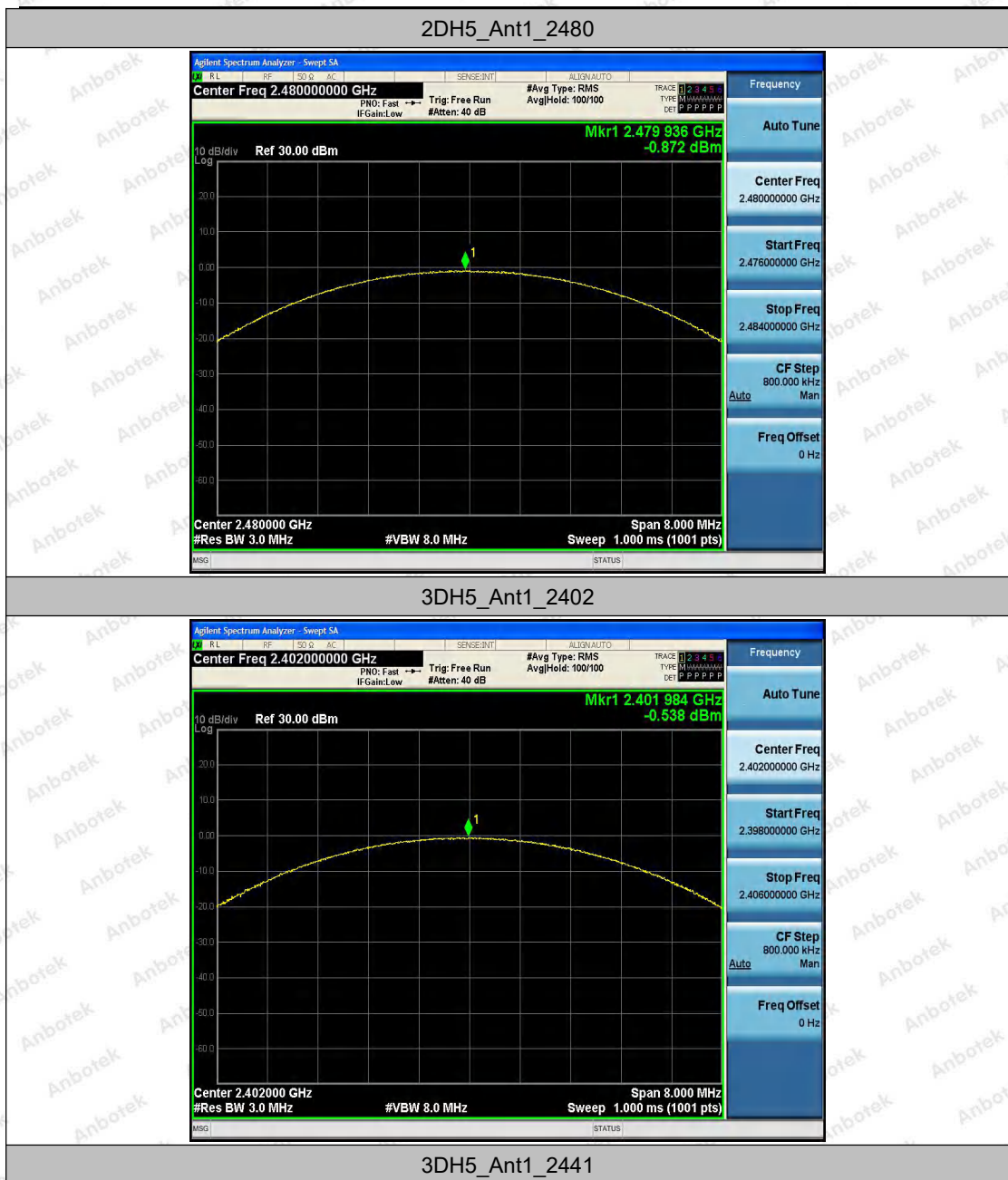
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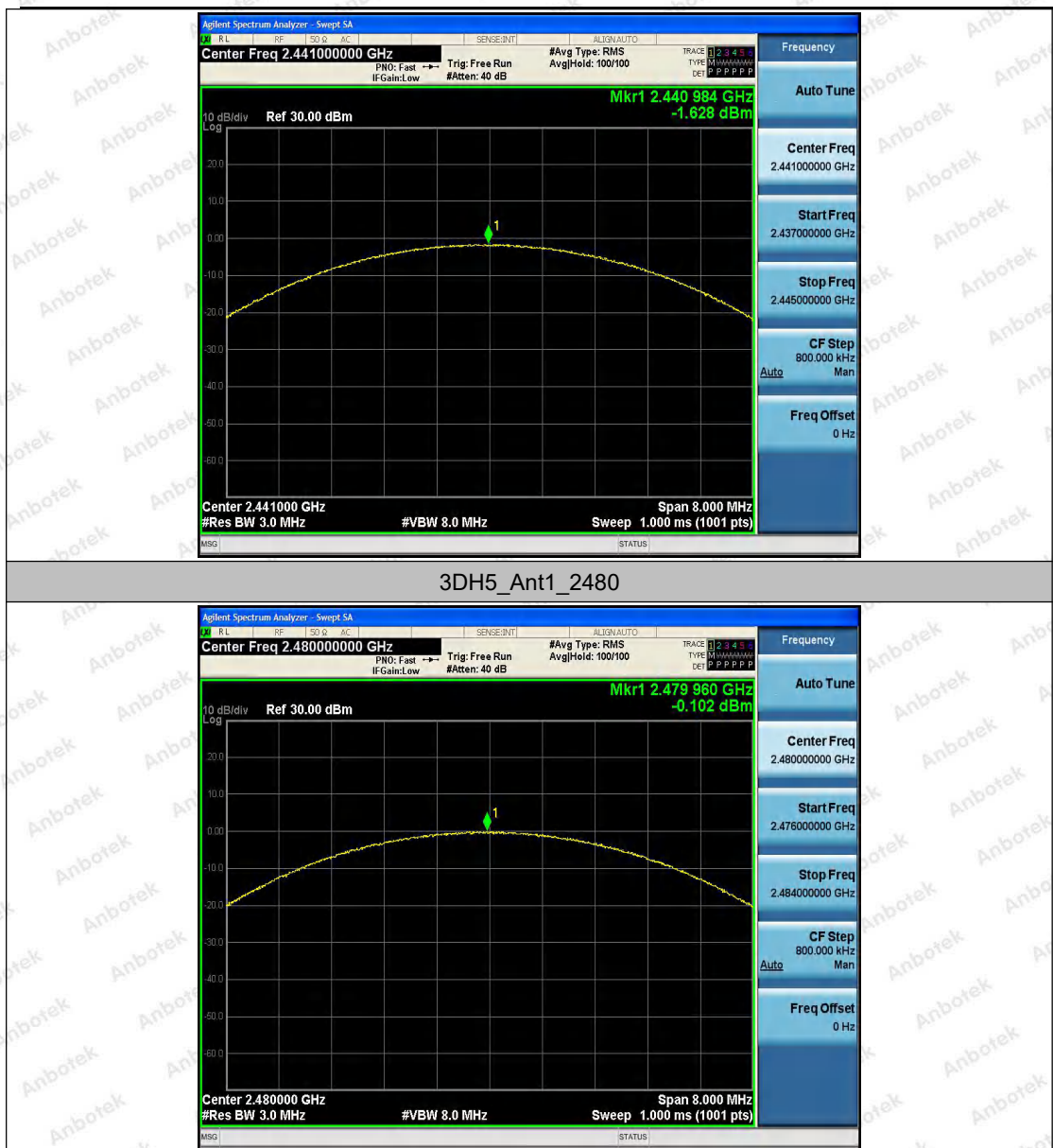


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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.948	PASS
2DH5	Ant1	Hop	0.988	≥ 0.882	PASS
3DH5	Ant1	Hop	1.072	≥ 0.890	PASS

Test Graphs





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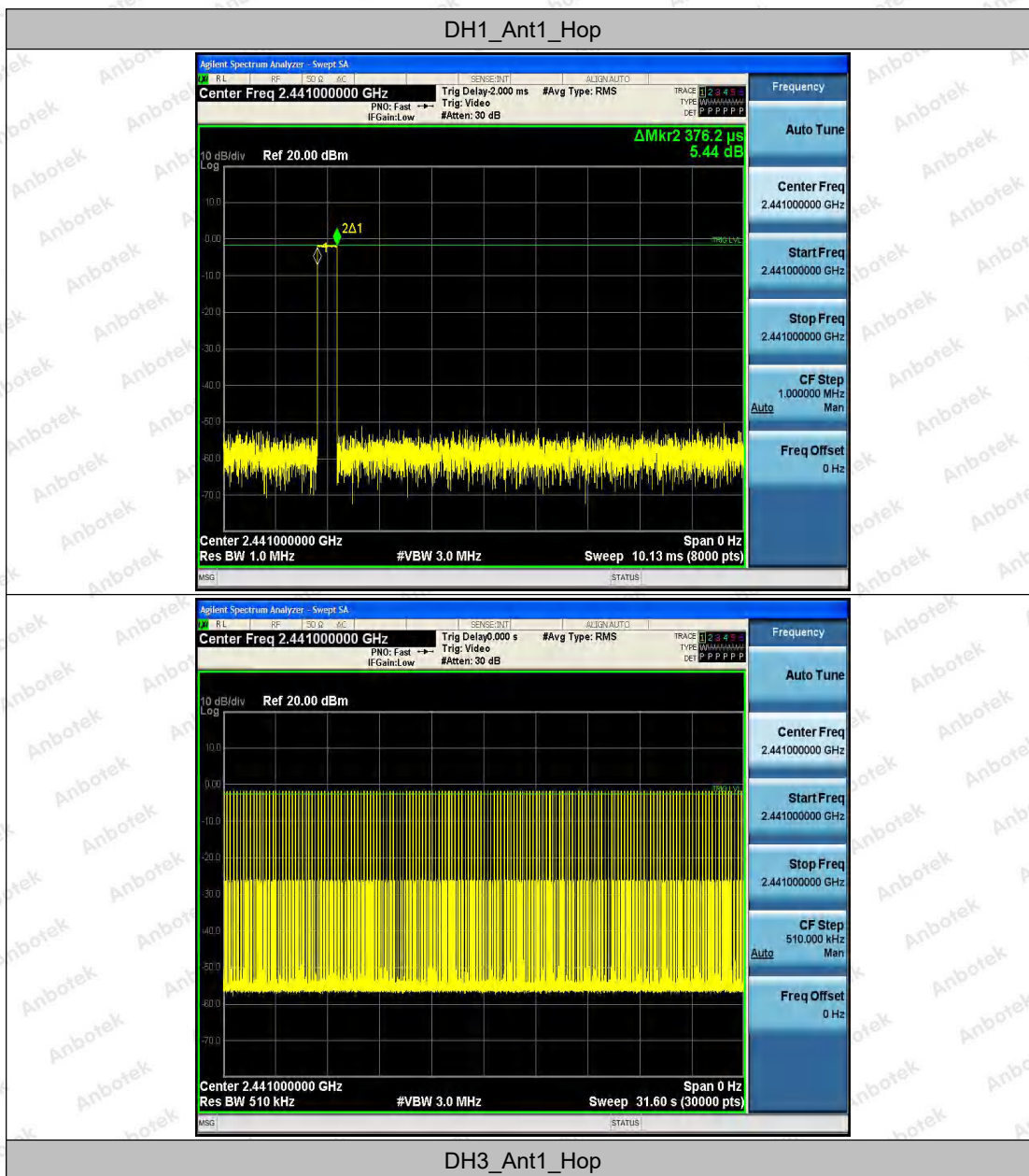
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.89	104	0.3	≤0.4	PASS

Test Graphs



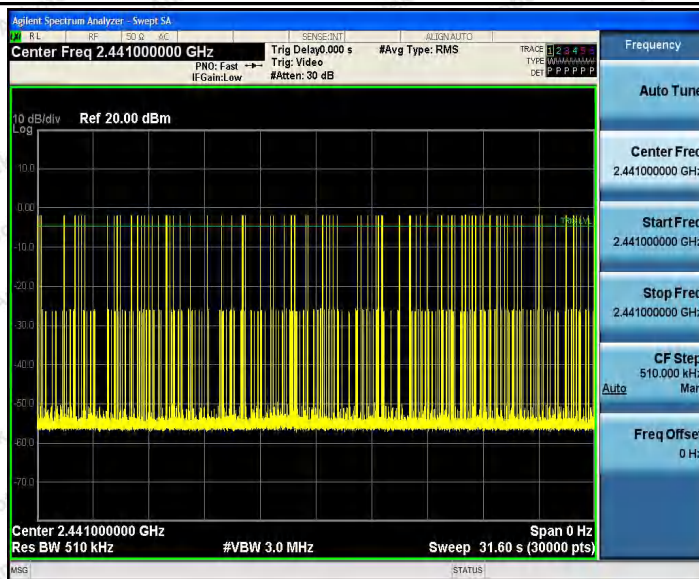


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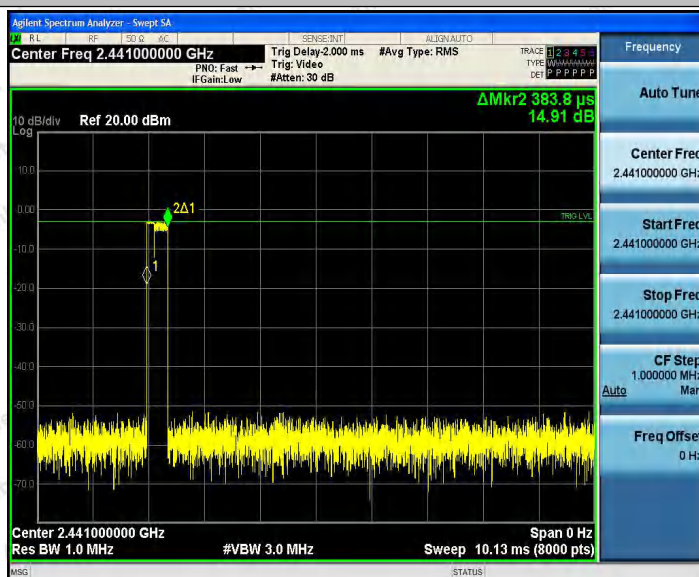
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

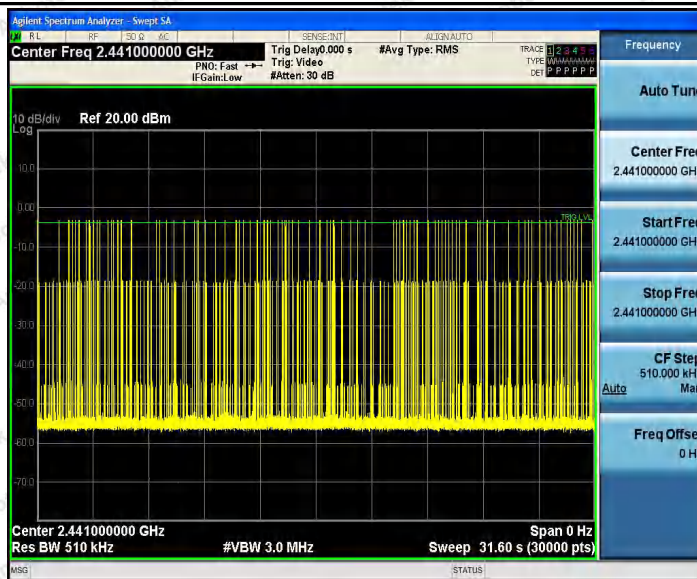
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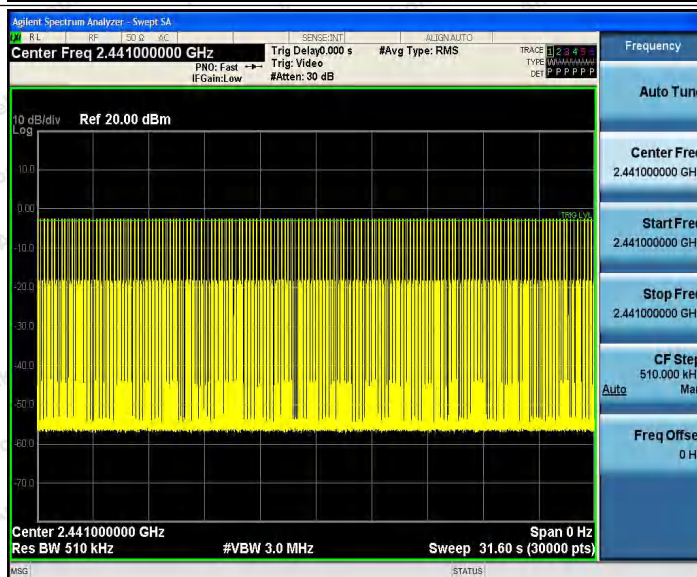
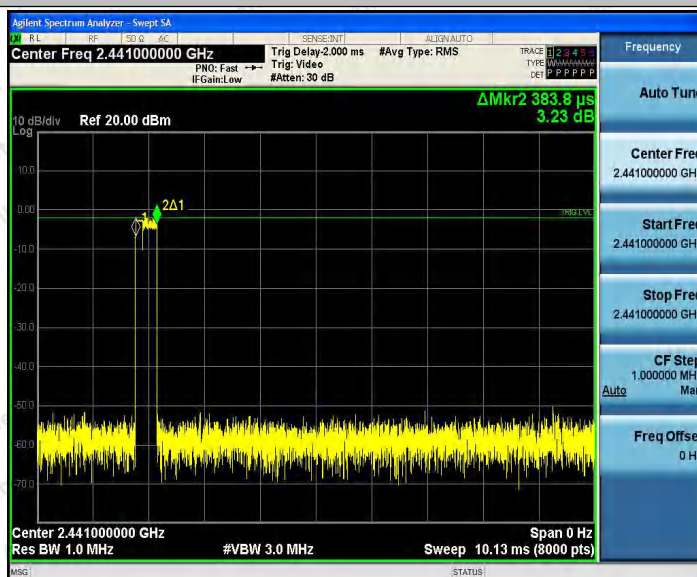
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3DH1_Ant1_Hop



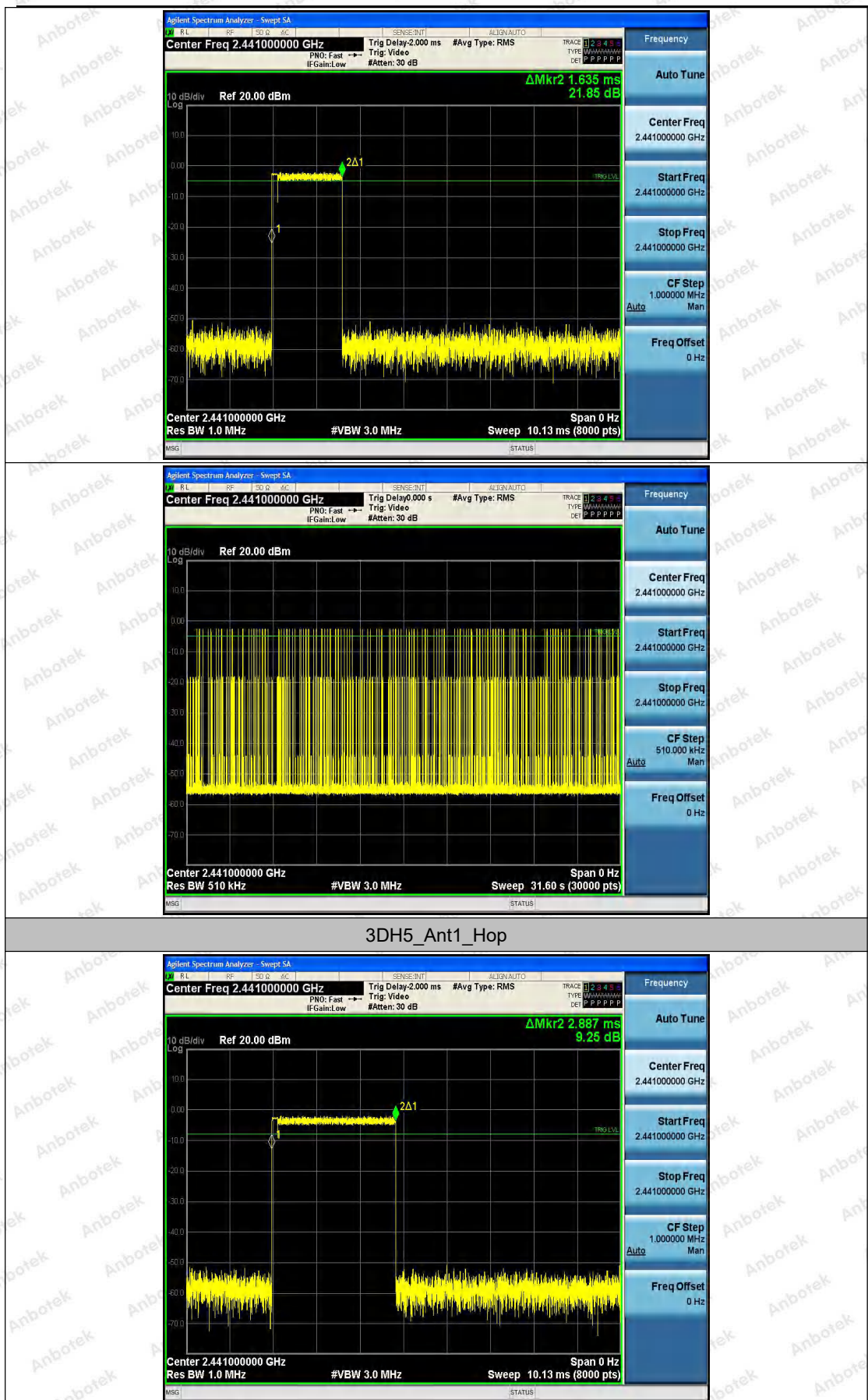
3DH3_Ant1_Hop

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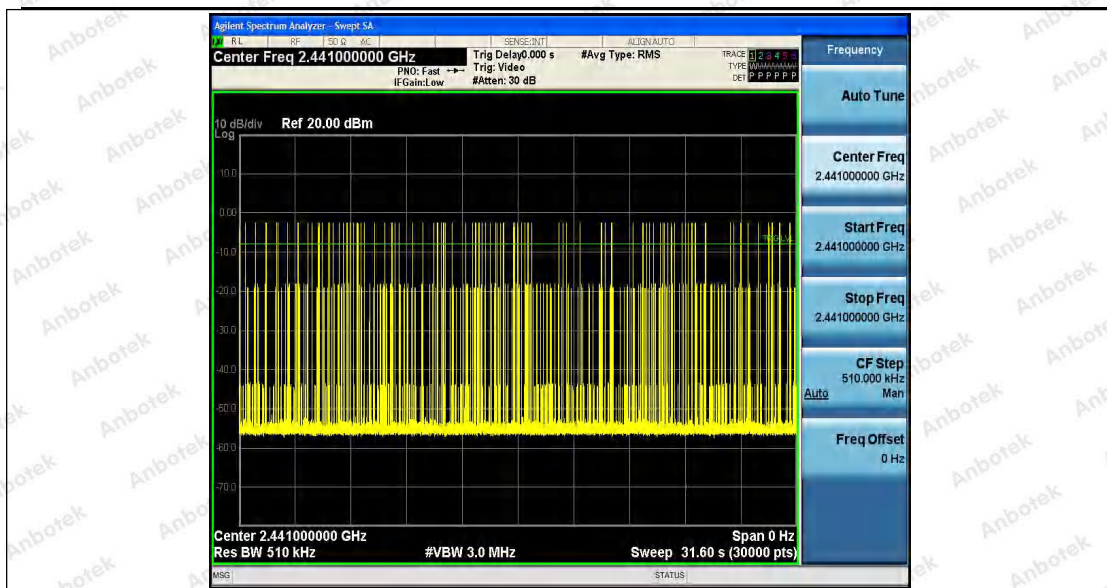


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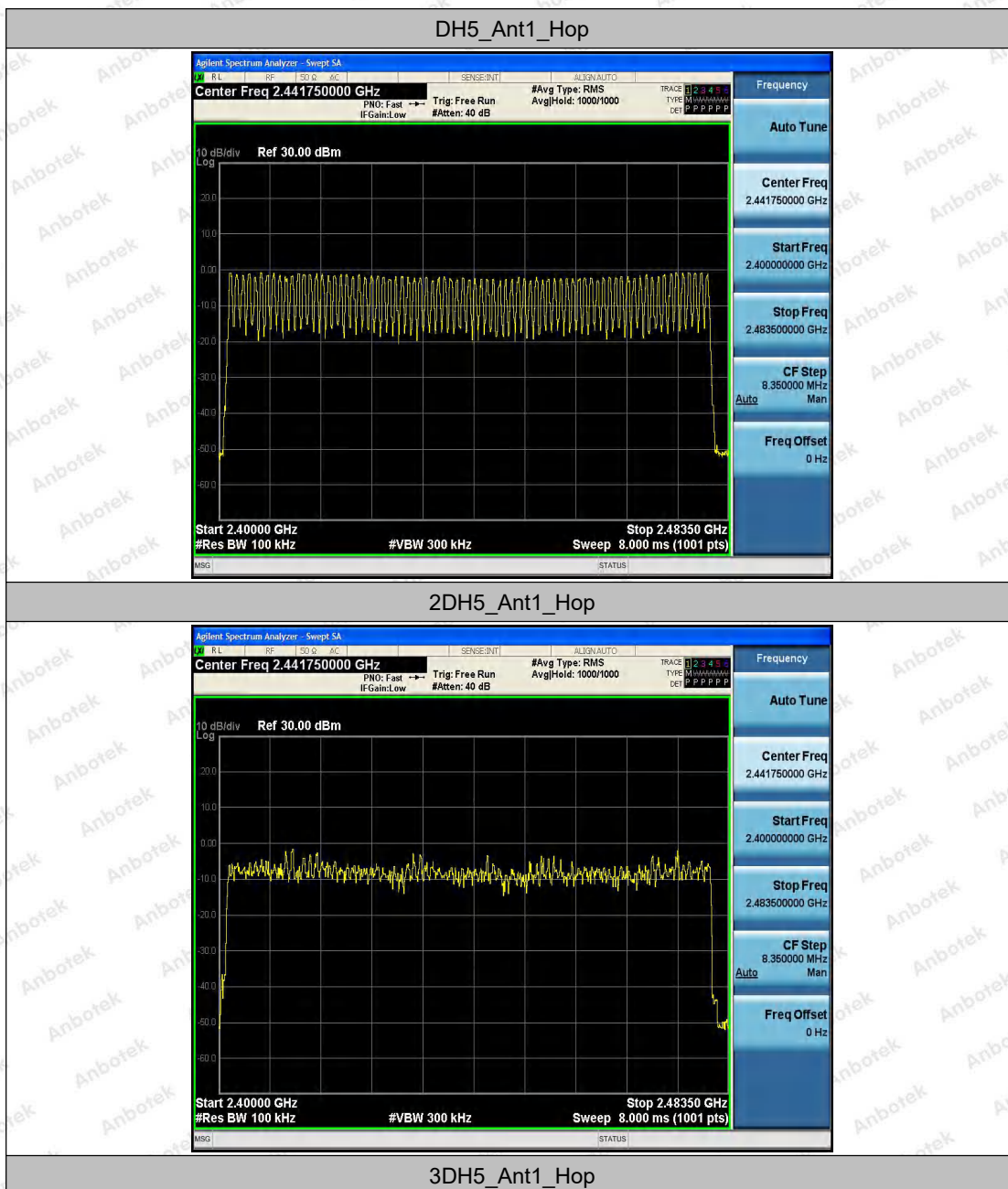
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Appendix F: Number of hopping channels

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

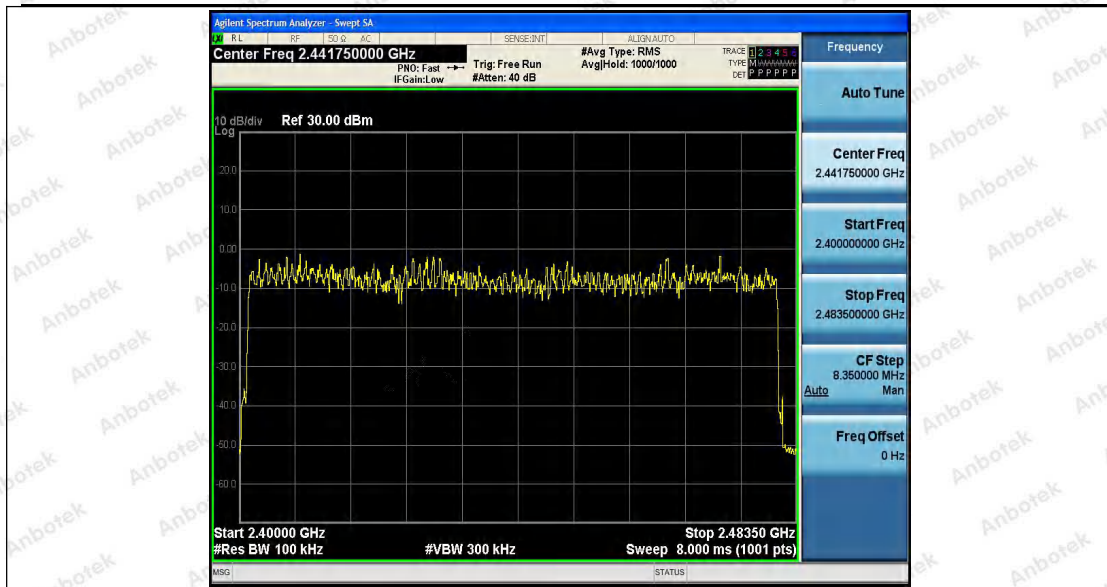


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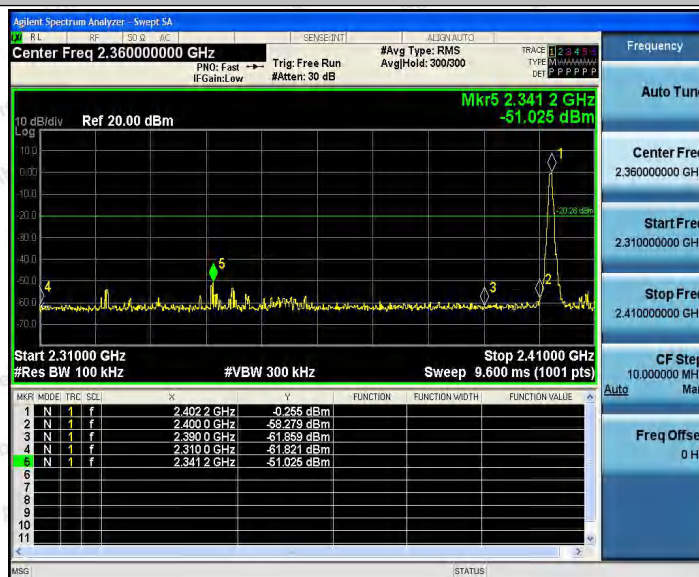
Appendix G: Band edge measurements

Test Result

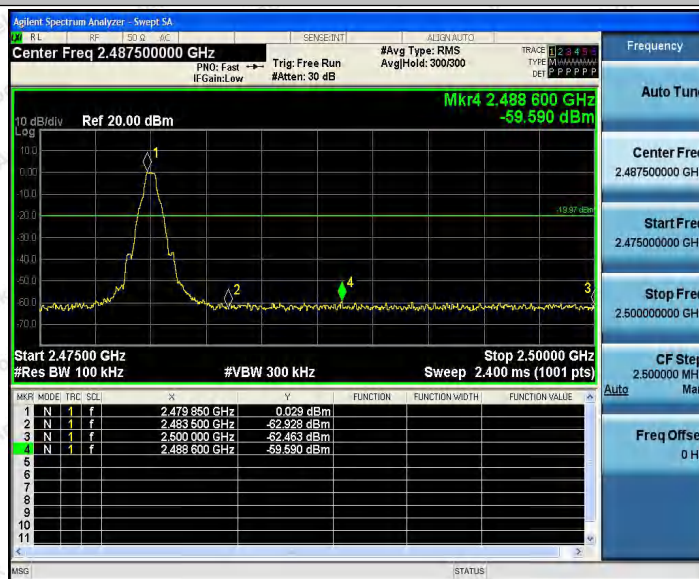
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.26	-51.03	≤-20.26	PASS
		High	2480	0.03	-59.59	≤-19.97	PASS
		Low	Hop	-0.87	-59.63	≤-20.87	PASS
		High	Hop	-1.05	-62.01	≤-21.05	PASS
2DH5	Ant1	Low	2402	-1.73	-57.85	≤-21.73	PASS
		High	2480	-2.29	-58.96	≤-22.29	PASS
		Low	Hop	-2.87	-59.2	≤-22.87	PASS
		High	Hop	-6.32	-61.55	≤-26.32	PASS
3DH5	Ant1	Low	2402	-1.50	-46.17	≤-21.5	PASS
		High	2480	-1.28	-59.3	≤-21.28	PASS
		Low	Hop	-2.95	-53.35	≤-22.95	PASS
		High	Hop	-5.67	-61.92	≤-25.67	PASS

Test Graphs

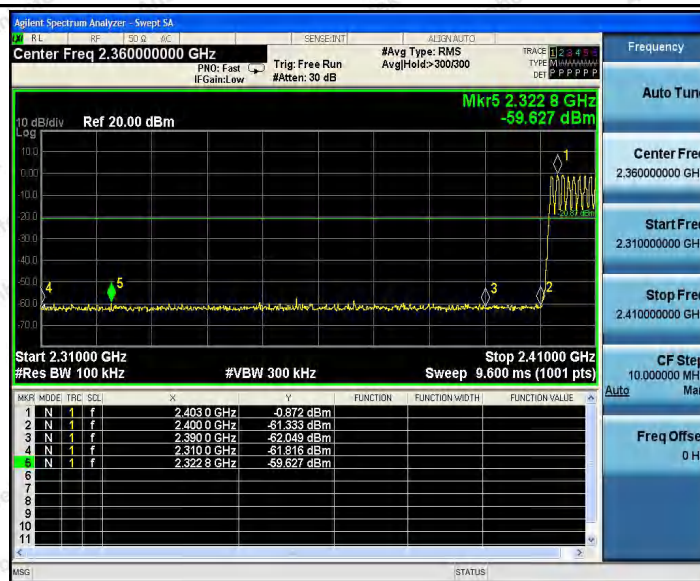
DH5_Ant1_Low_2402



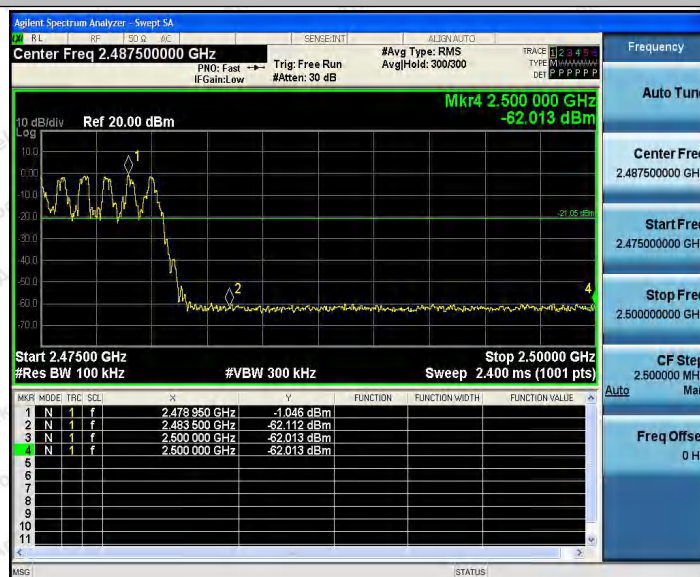
DH5_Ant1_High_2480



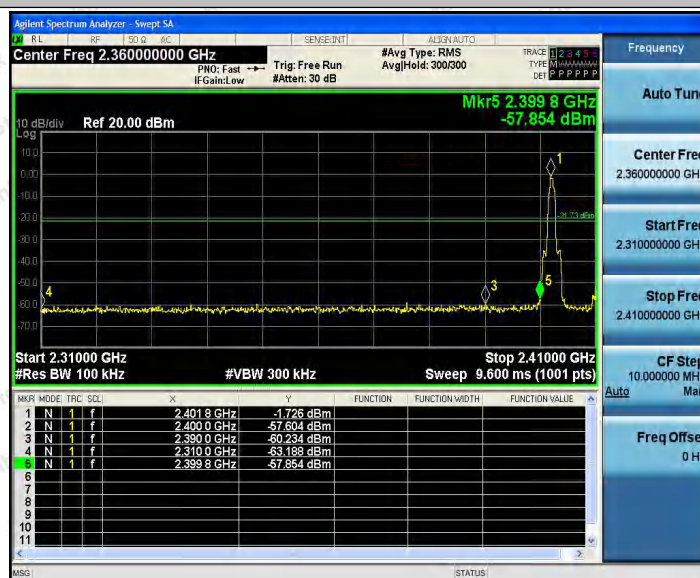
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



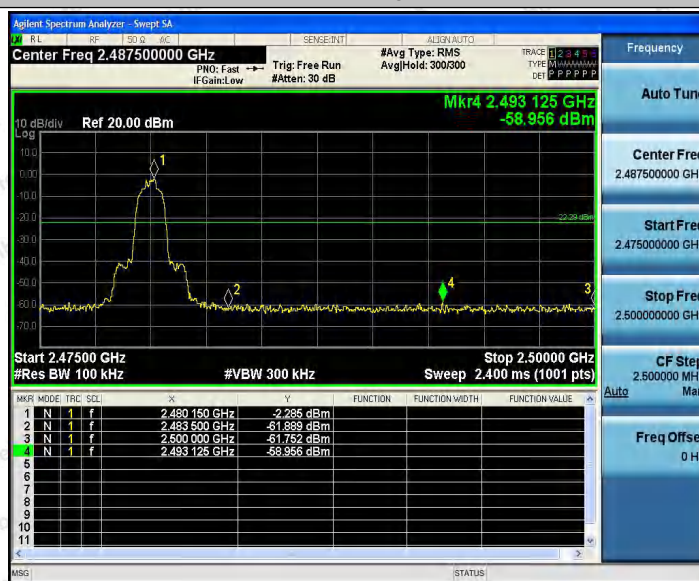
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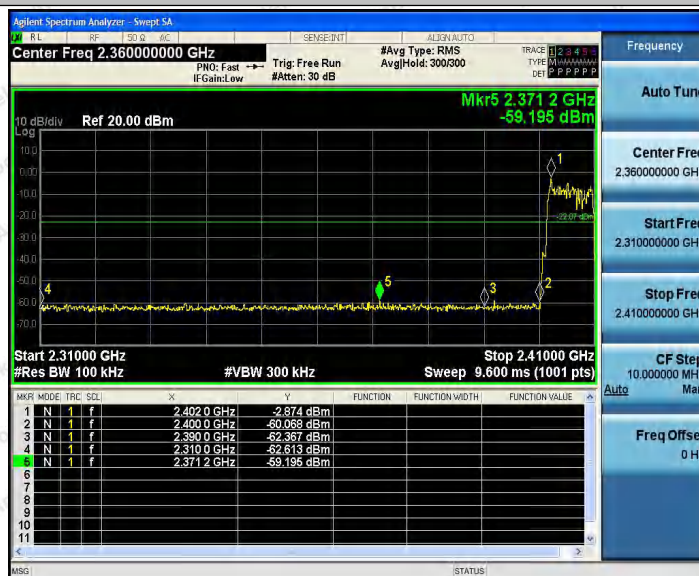
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



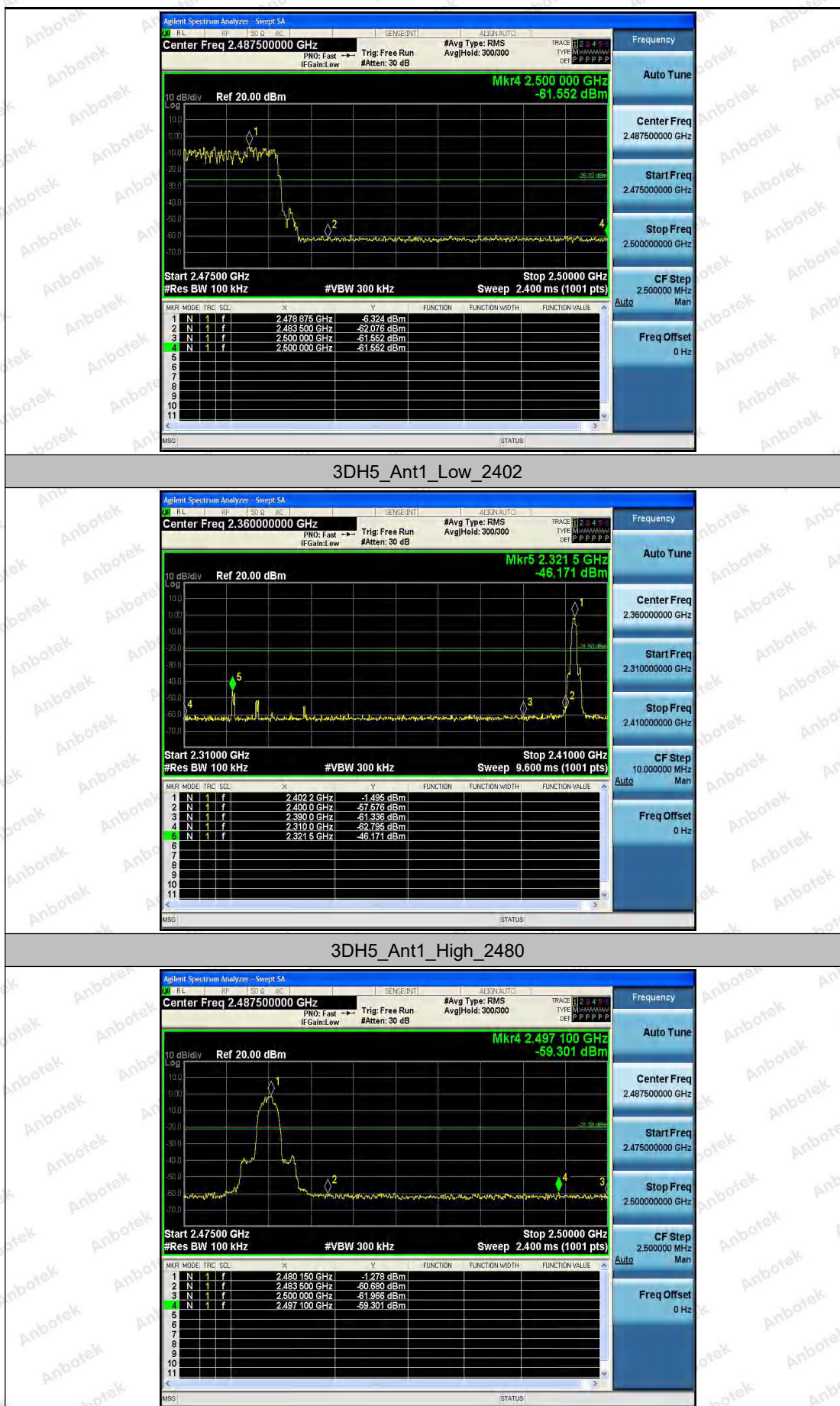
2DH5_Ant1_High_Hop

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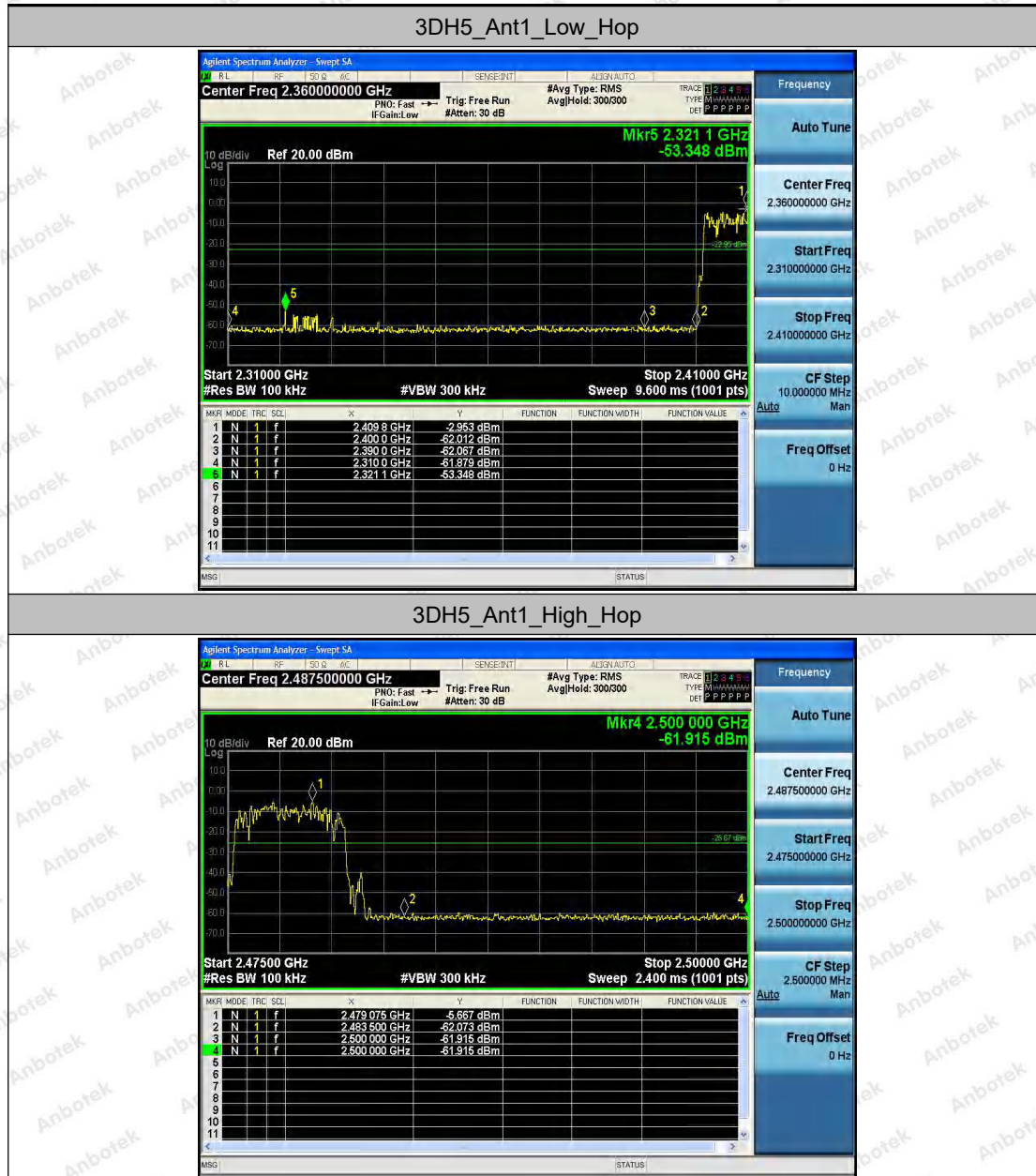


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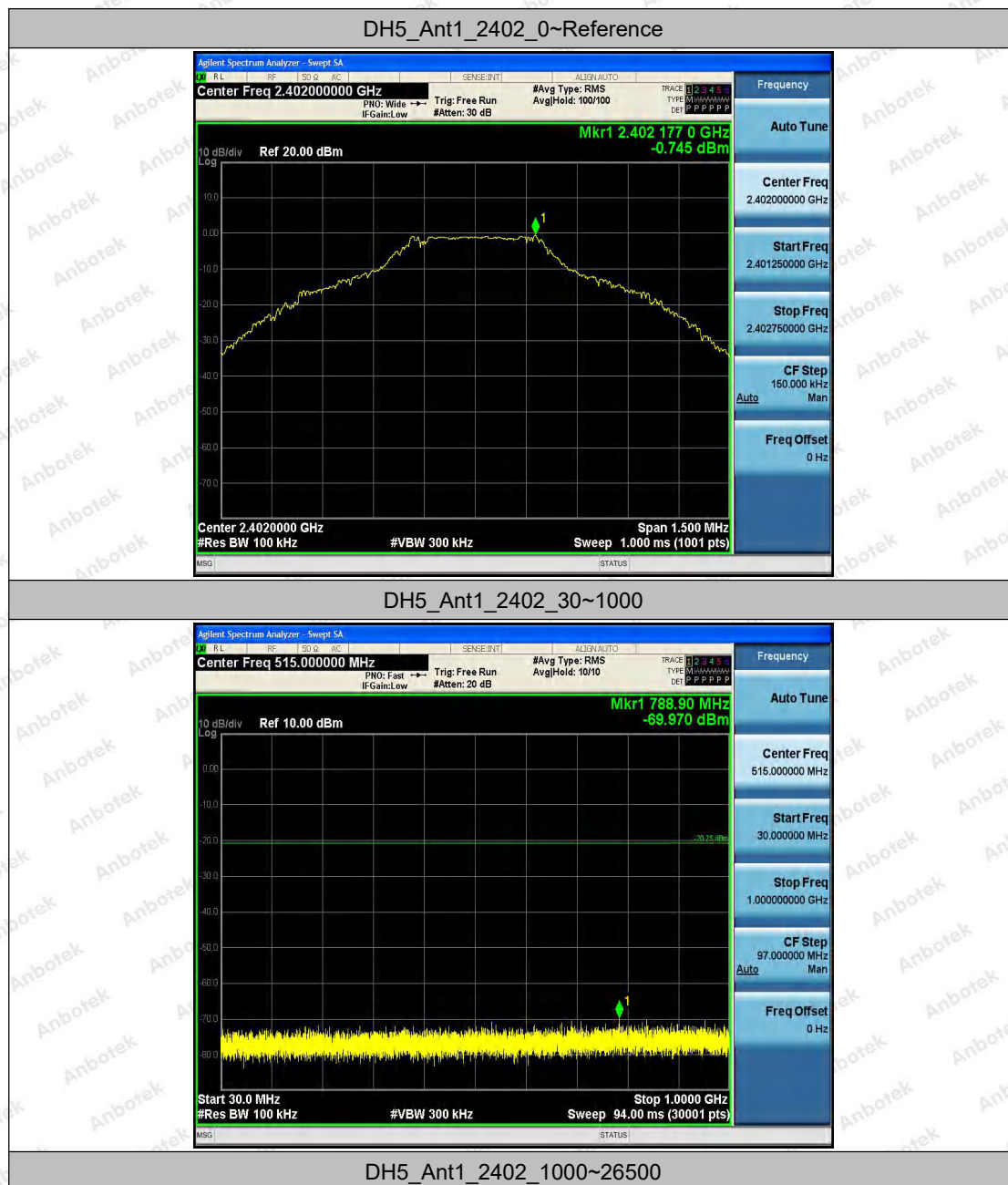
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-69.97	≤-20.75	PASS
			1000~26500	-0.75	-44.61	≤-20.75	PASS
		2441	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-69.29	≤-21.6	PASS
			1000~26500	-1.60	-45.26	≤-21.6	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-60.1	≤-20.23	PASS
			1000~26500	-0.23	-48.89	≤-20.23	PASS
2DH5	Ant1	2402	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-69.99	≤-22.21	PASS
			1000~26500	-2.21	-48.33	≤-22.21	PASS
		2441	Reference	-3.42	-3.42	---	PASS
			30~1000	-3.42	-70.39	≤-23.42	PASS
			1000~26500	-3.42	-47.41	≤-23.42	PASS
		2480	Reference	-2.86	-2.86	---	PASS
			30~1000	-2.86	-69.59	≤-22.86	PASS
			1000~26500	-2.86	-52.33	≤-22.86	PASS
3DH5	Ant1	2402	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-70.66	≤-21.65	PASS
			1000~26500	-1.65	-43.62	≤-21.65	PASS
		2441	Reference	-2.79	-2.79	---	PASS
			30~1000	-2.79	-69.52	≤-22.79	PASS
			1000~26500	-2.79	-48.16	≤-22.79	PASS
		2480	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-68.72	≤-21.24	PASS
			1000~26500	-1.24	-50.72	≤-21.24	PASS

Test Graphs

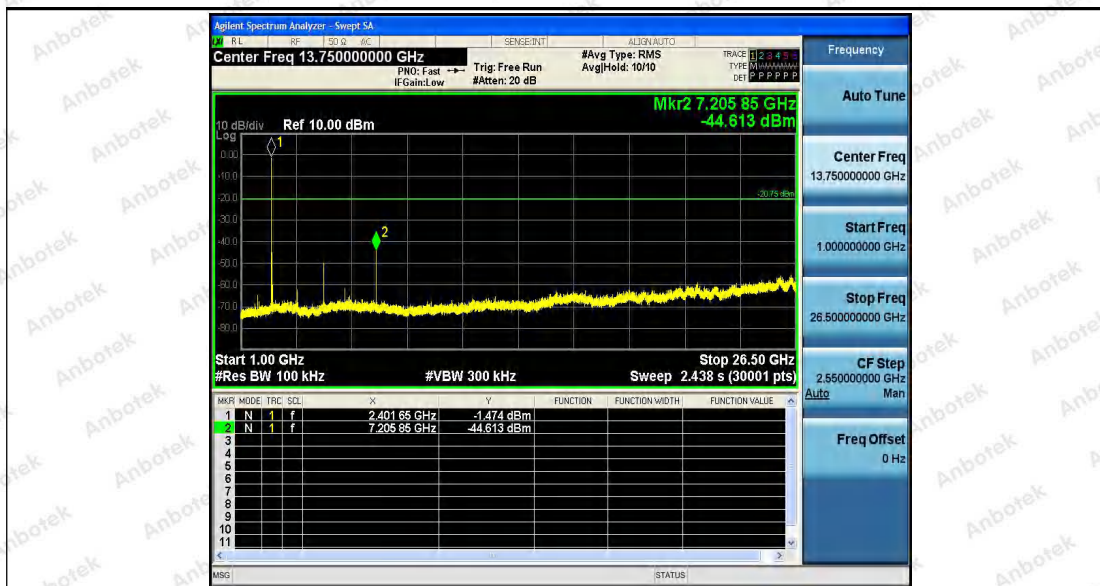


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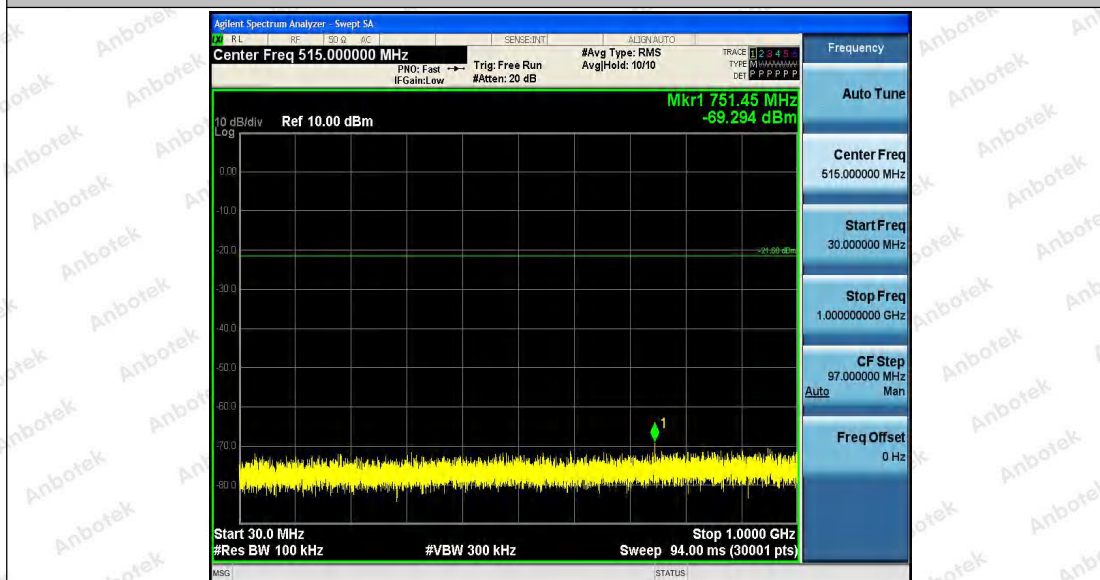
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



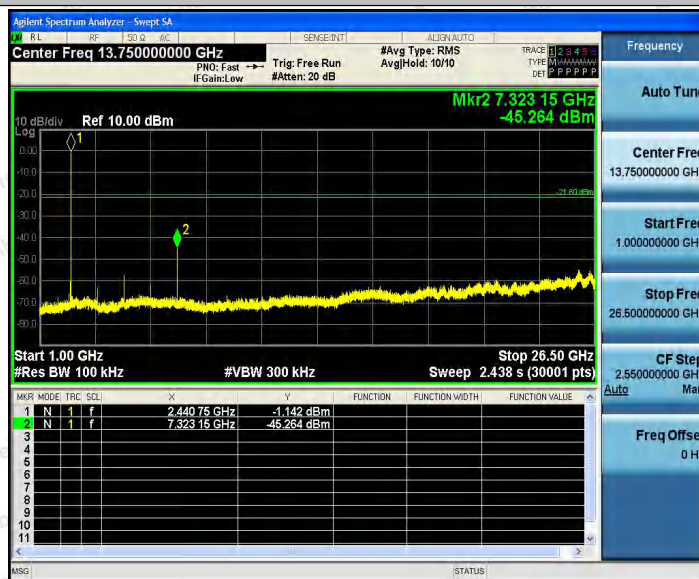
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

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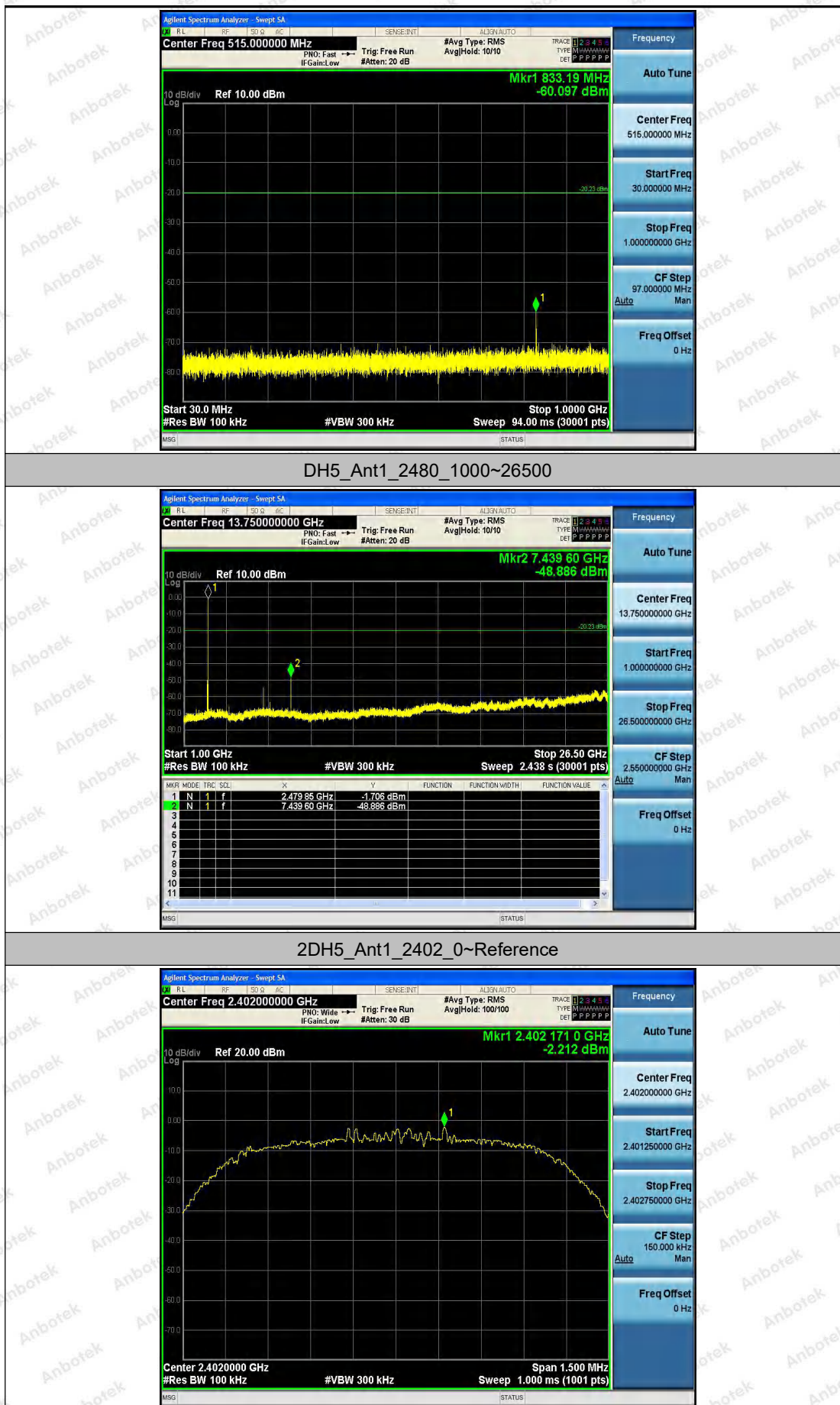
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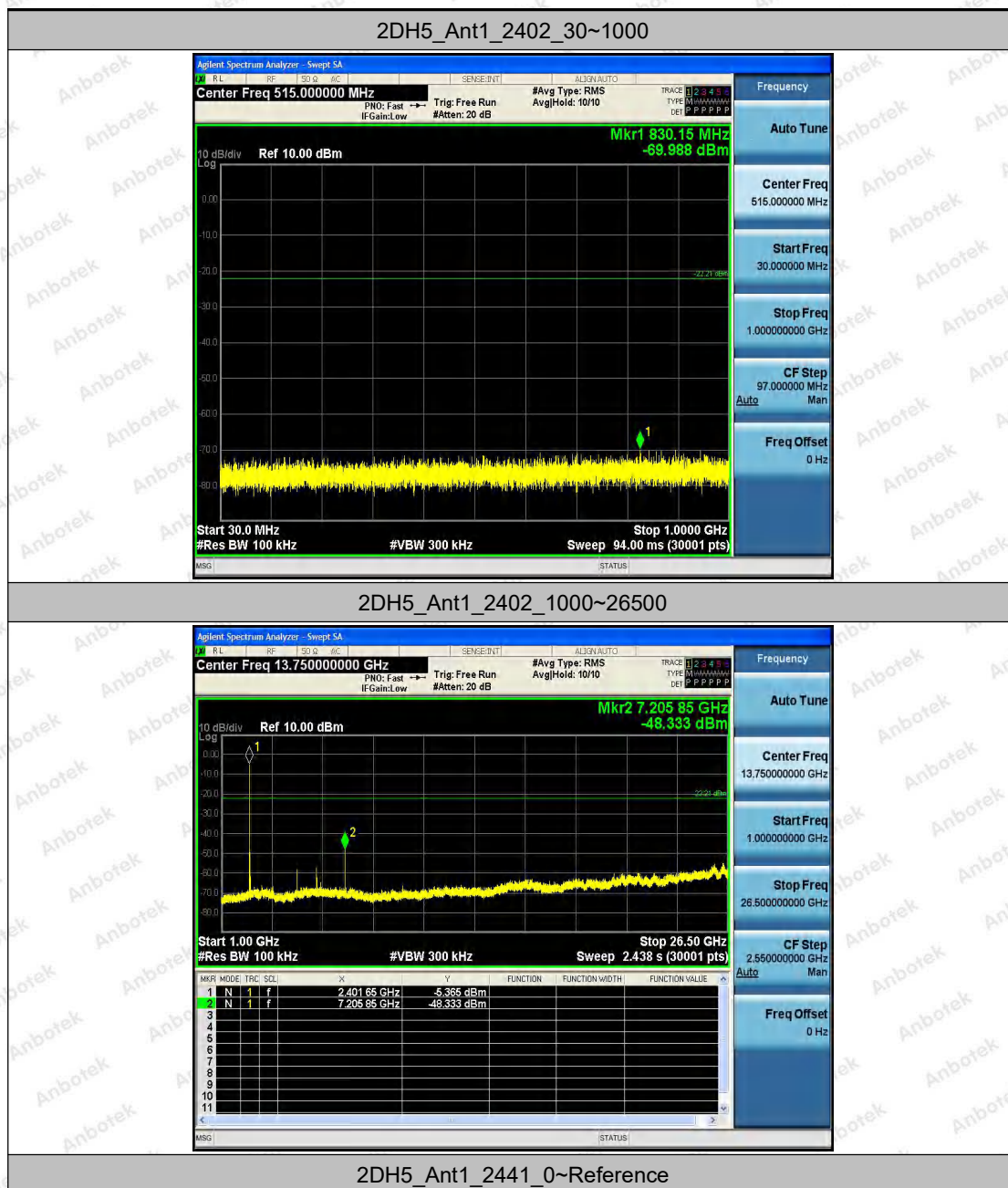


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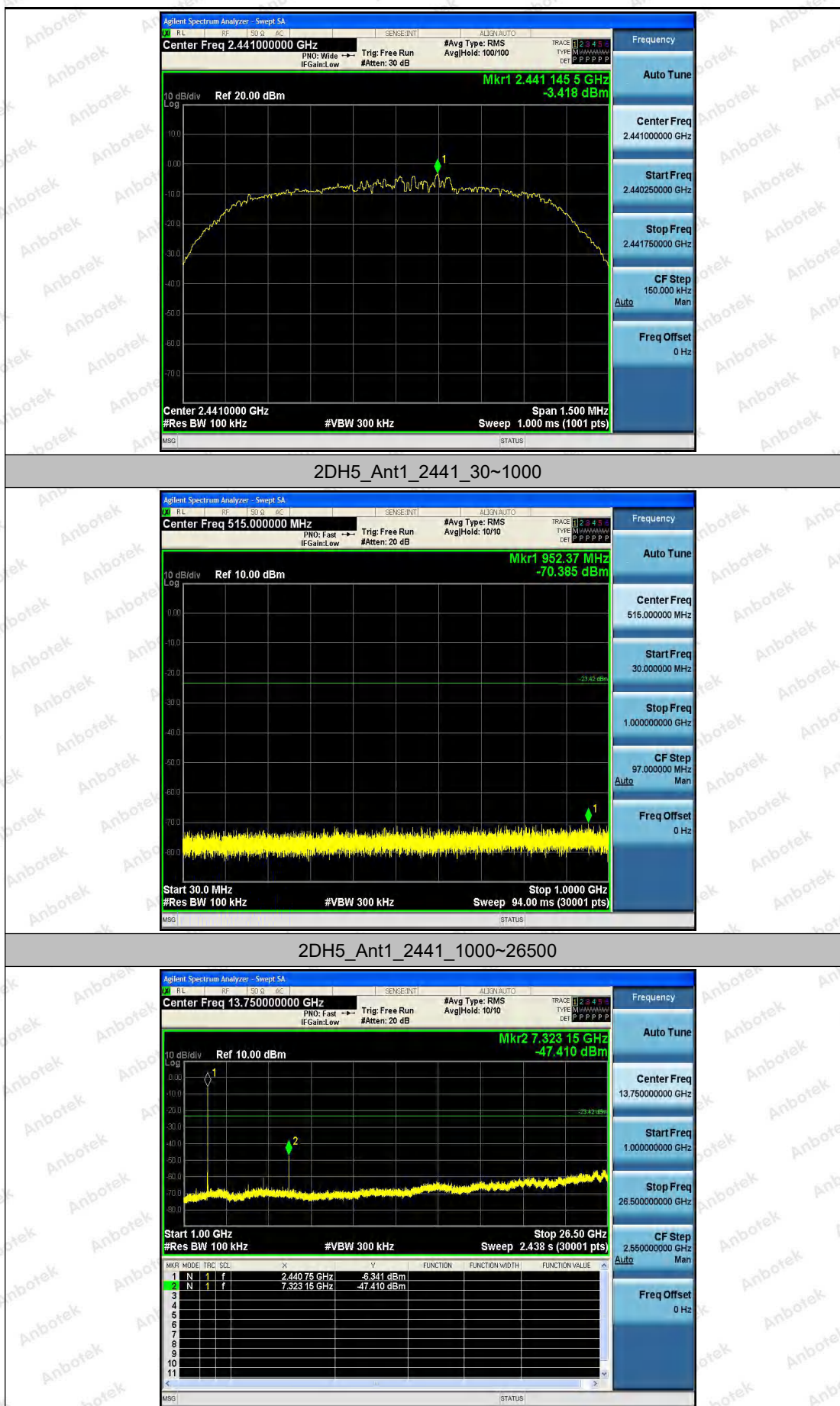


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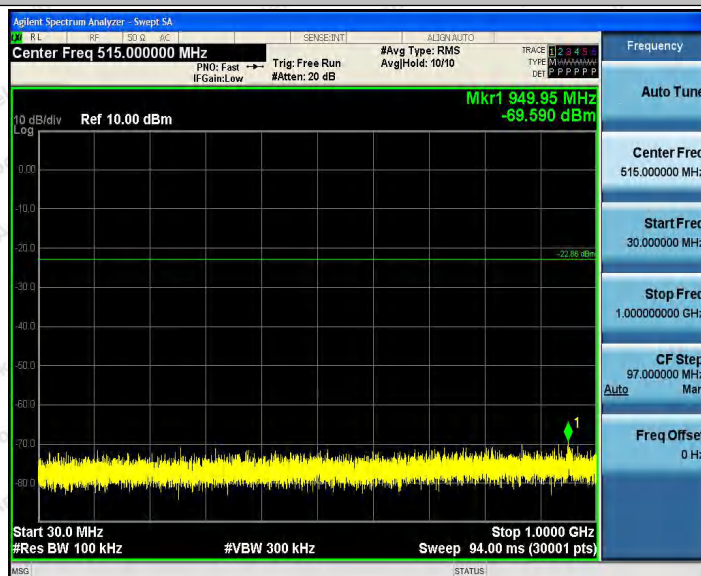
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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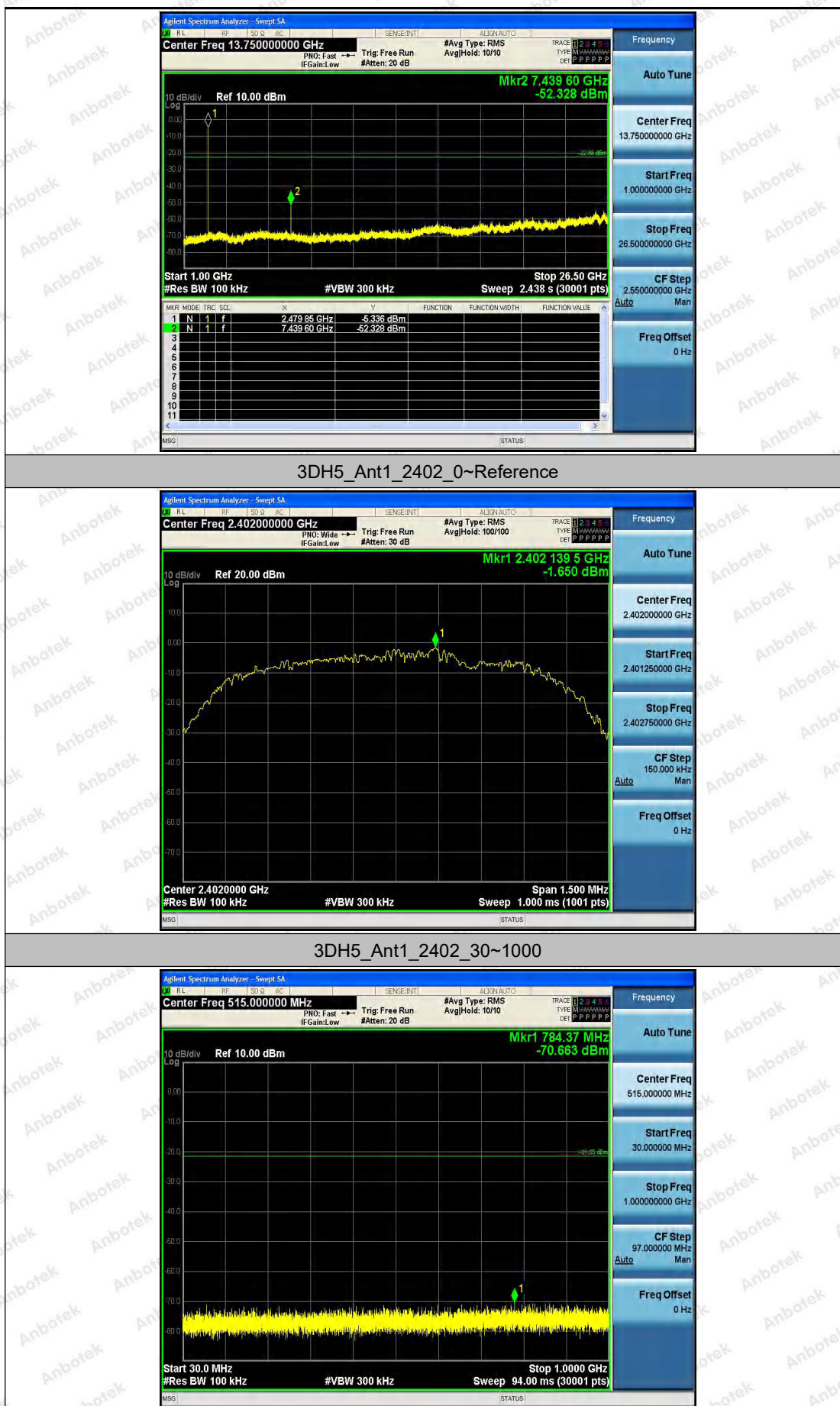
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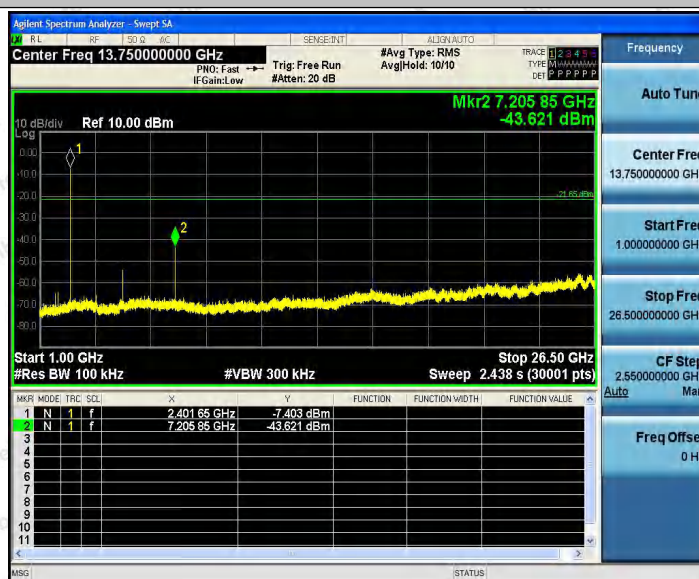
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



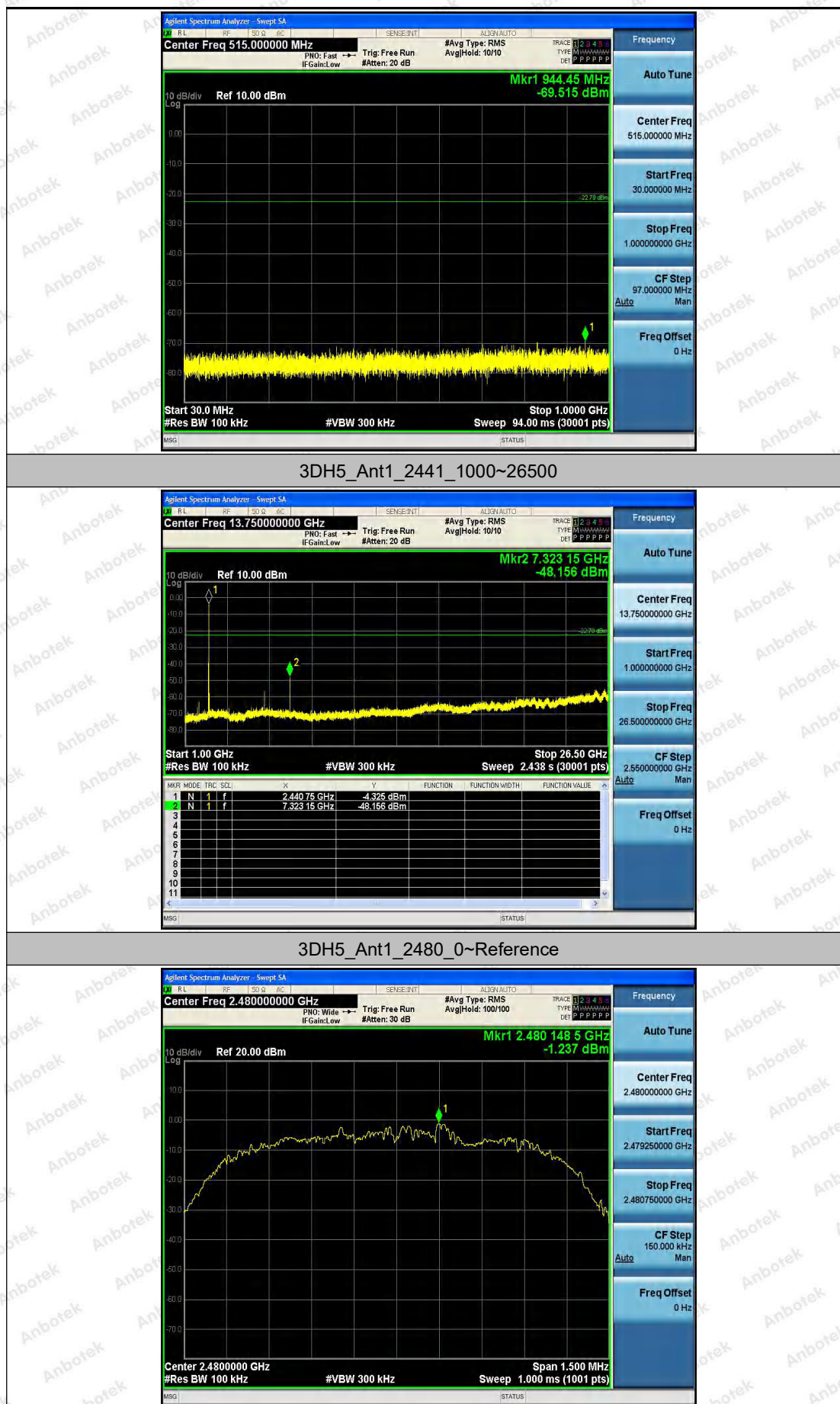
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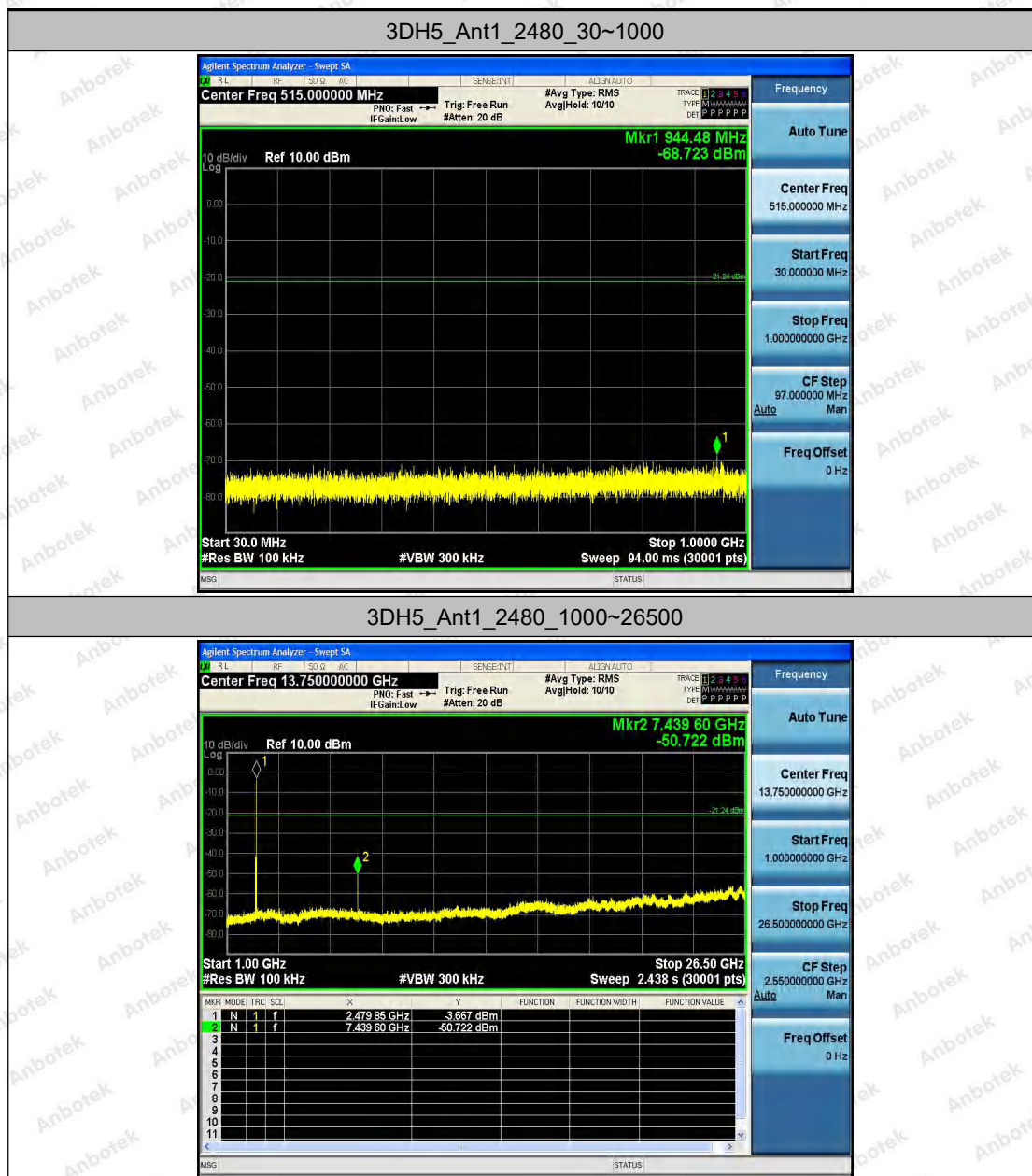


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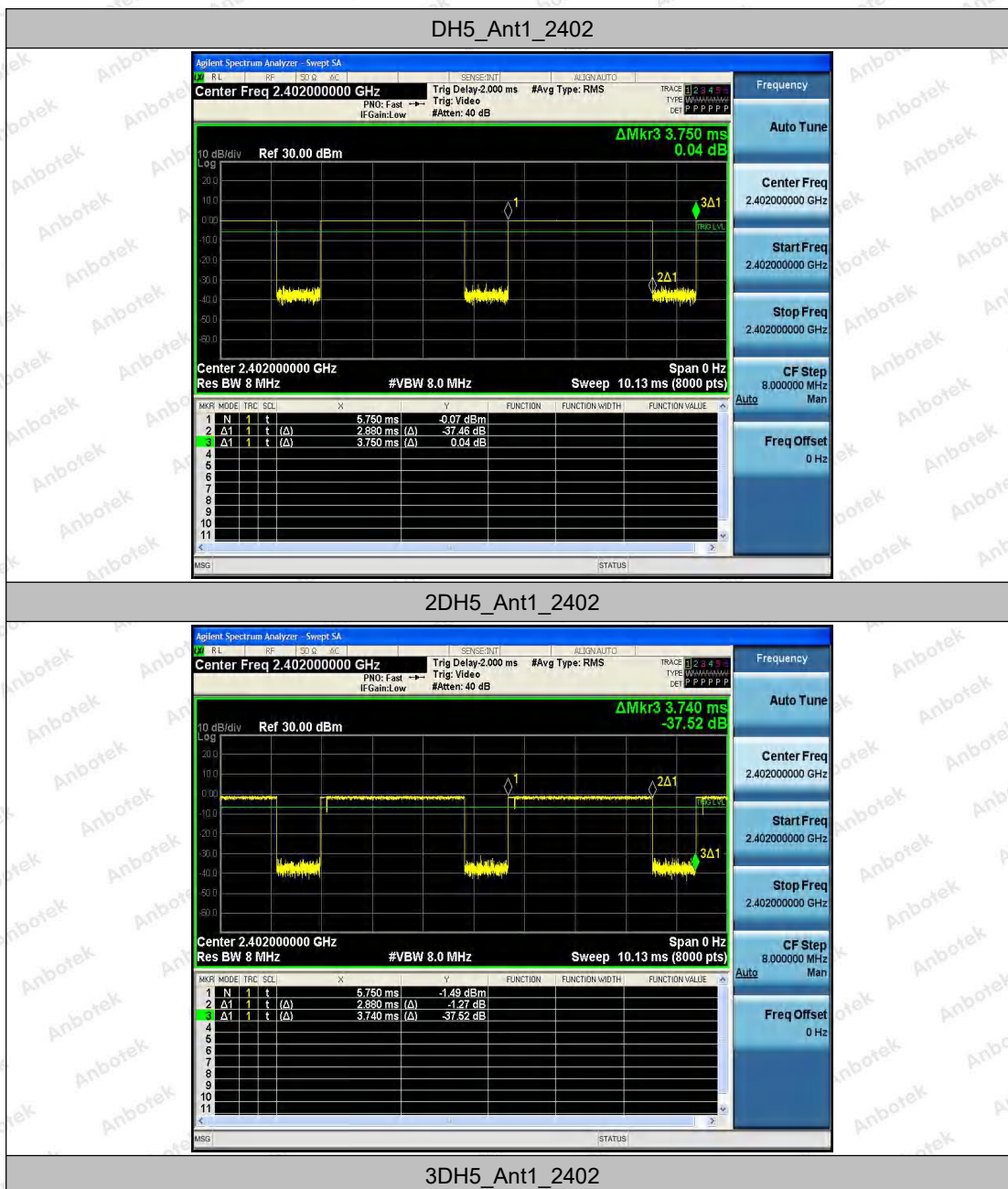
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

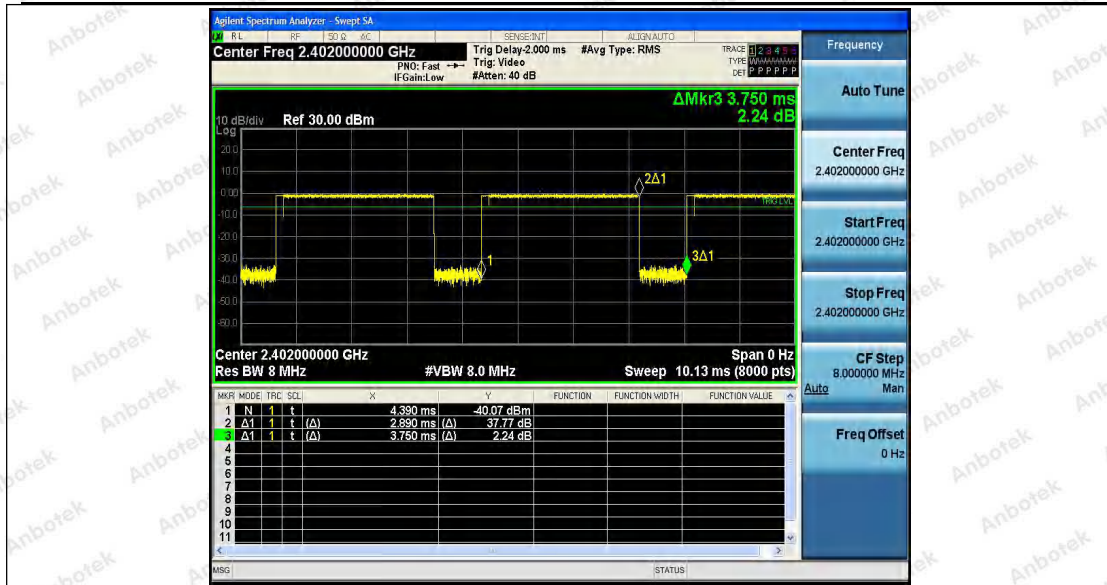


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---End---