

Appendix Test Data

Report No.:	18220WC10247601	Test Sample No.:	1-2-2
Start Test Date:	2021.11.12	Finish Test Date:	2021.11.18
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
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	0.942	2401.538	2402.480	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.948	2479.535	2480.483	---	PASS
2DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.311	2479.343	2480.654	---	PASS
3DH5	Ant1	2402	1.275	2401.352	2402.627	---	PASS
		2441	1.332	2440.328	2441.660	---	PASS
		2480	1.308	2479.346	2480.654	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2441

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3DH5_Ant1_2480



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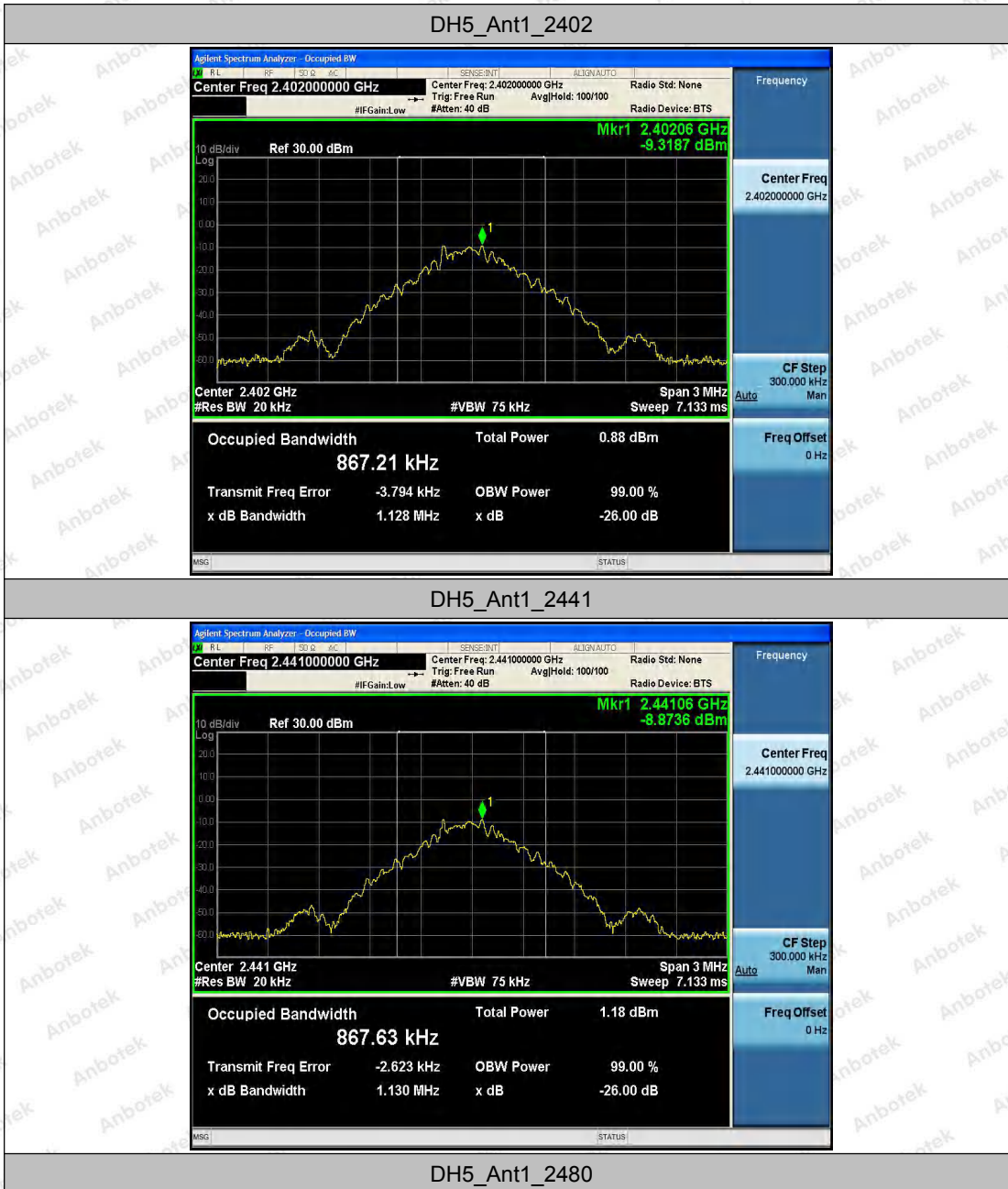
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86721	2401.56 3	2402.430	---	PASS
		2441	0.86763	2440.56 4	2441.431	---	PASS
		2480	0.87046	2479.56 2	2480.432	---	PASS
2DH5	Ant1	2402	1.1720	2401.411	2402.583	---	PASS
		2441	1.1810	2440.41 0	2441.591	---	PASS
		2480	1.1749	2479.41 0	2480.585	---	PASS
3DH5	Ant1	2402	1.1803	2401.40 5	2402.586	---	PASS
		2441	1.1877	2440.40 1	2441.589	---	PASS
		2480	1.1859	2479.40 0	2480.586	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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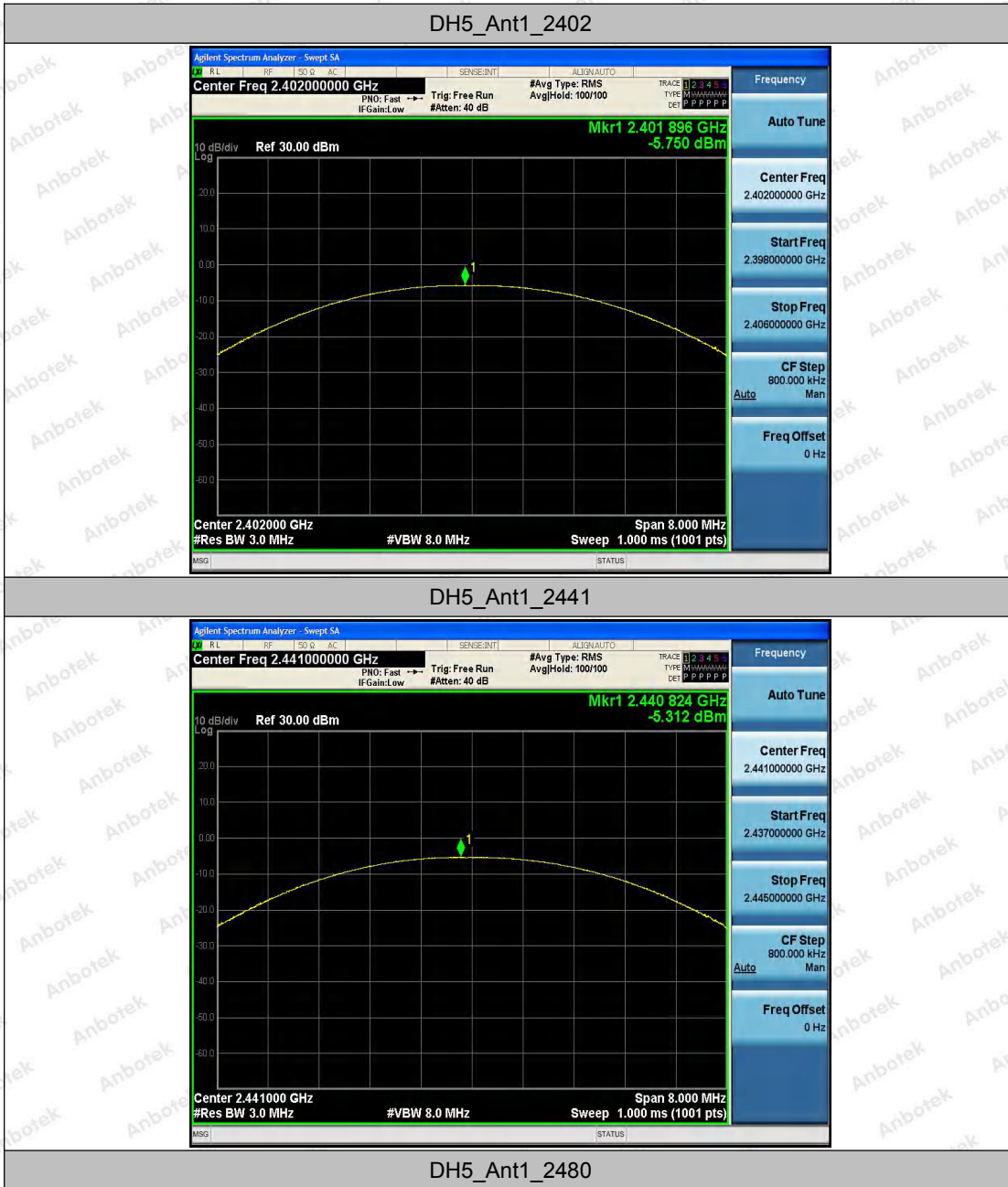
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-5.75	≤20.97	PASS
		2441	-5.31	≤20.97	PASS
		2480	-4	≤20.97	PASS
2DH5	Ant1	2402	-3.38	≤20.97	PASS
		2441	-2.2	≤20.97	PASS
		2480	-1.02	≤20.97	PASS
3DH5	Ant1	2402	-3.98	≤20.97	PASS
		2441	-2.17	≤20.97	PASS
		2480	-1.42	≤20.97	PASS

Test Graphs



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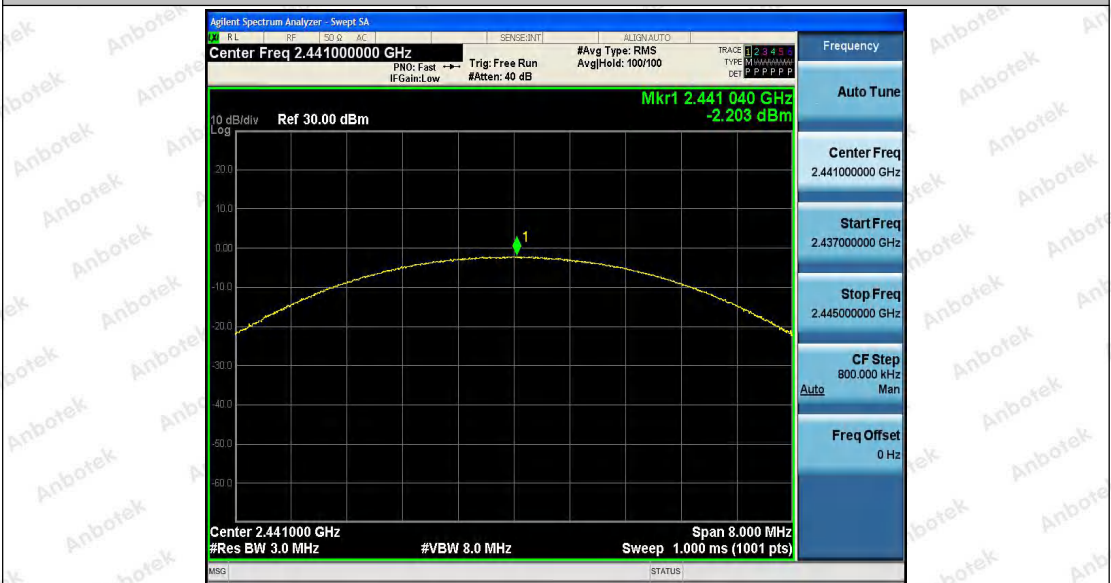
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2DH5_Ant1_2402



2DH5_Ant1_2441

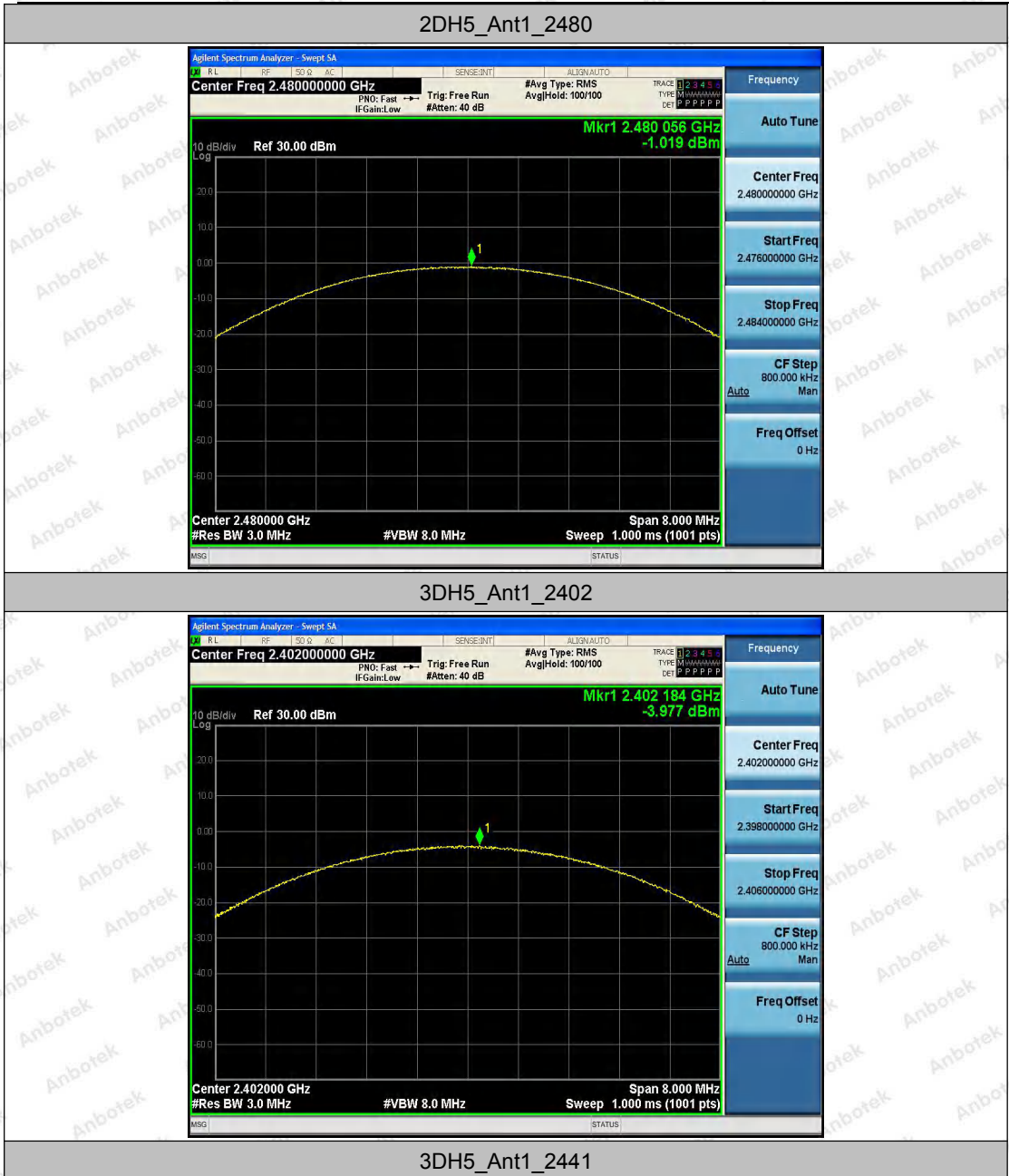


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.134	≥ 0.948	PASS
2DH5	Ant1	Hop	1.106	≥ 0.880	PASS
3DH5	Ant1	Hop	1.318	≥ 0.888	PASS

Test Graphs

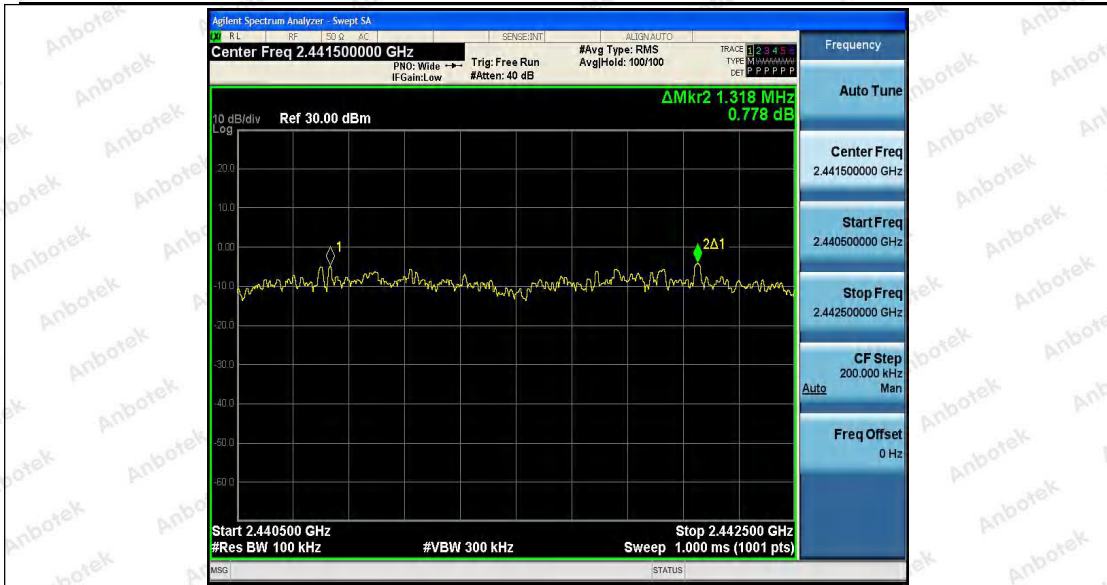


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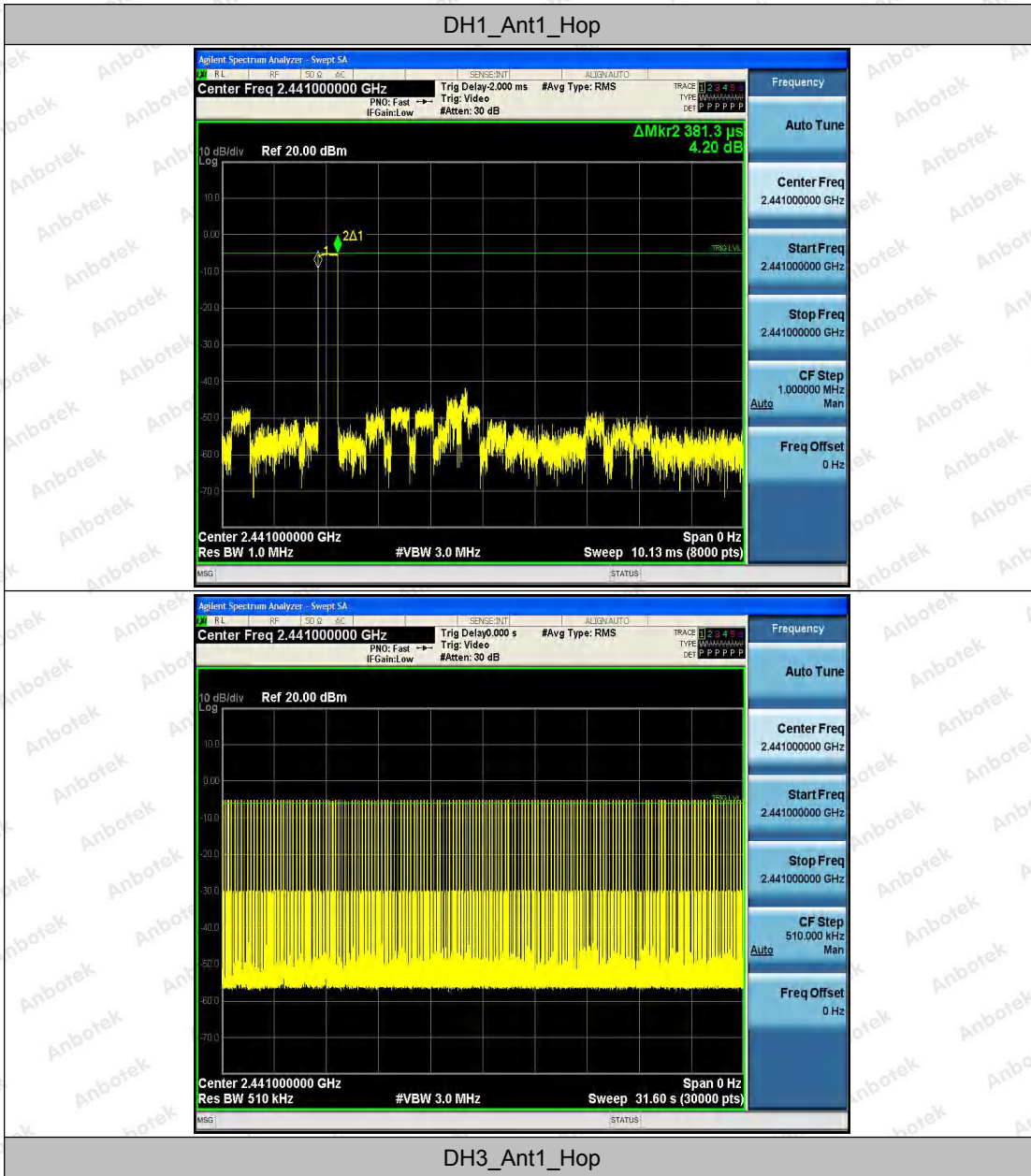
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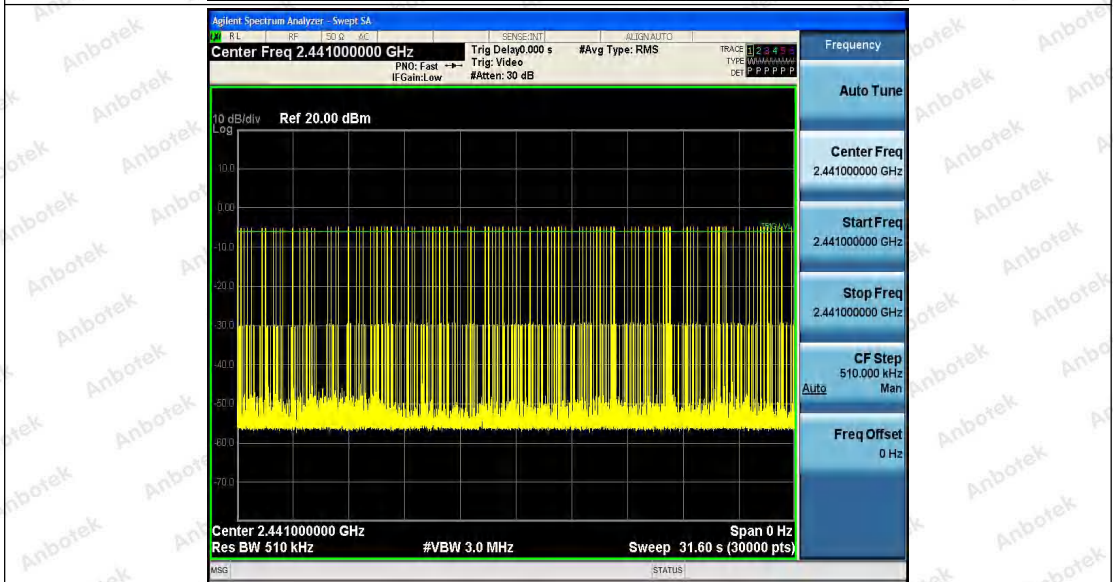
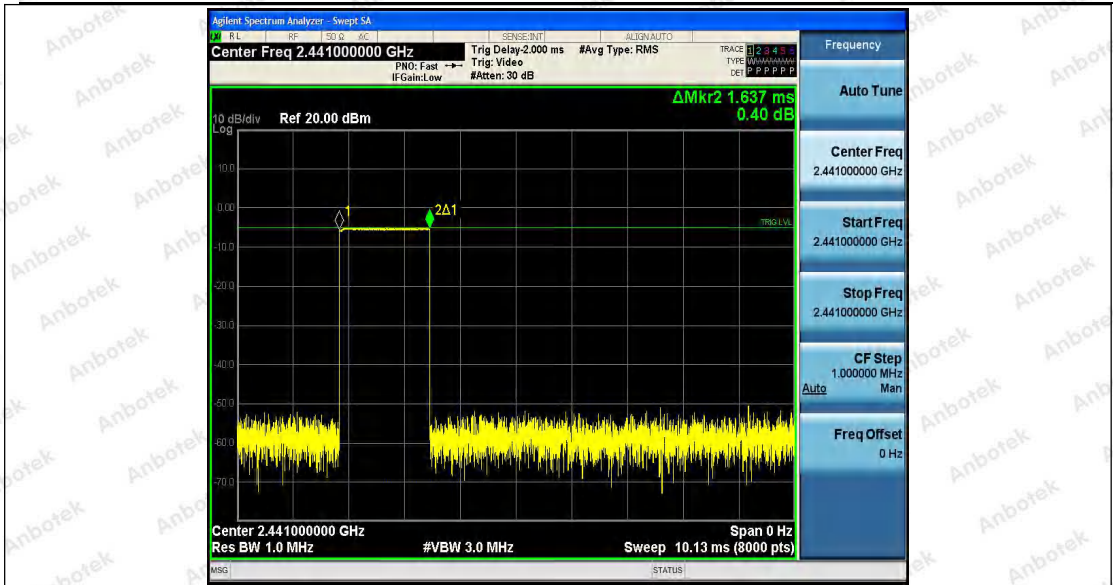
Appendix E: Time of occupancy

Test Result

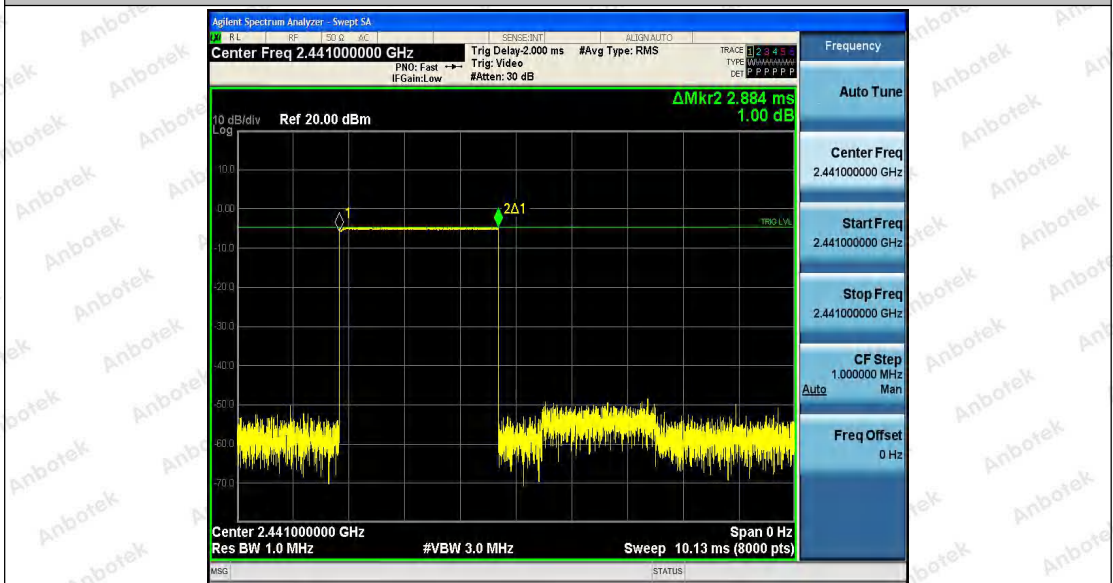
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.64	155	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.39	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.64	154	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.89	109	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.39	317	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.64	154	0.253	≤0.4	PASS
3DH5	Ant1	Hop	2.89	99	0.286	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

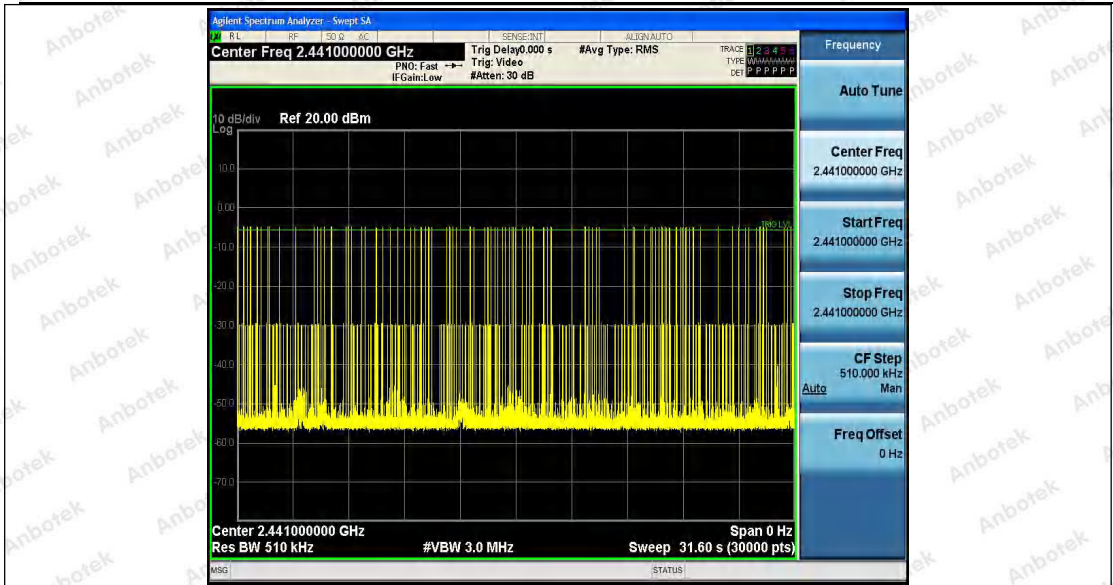


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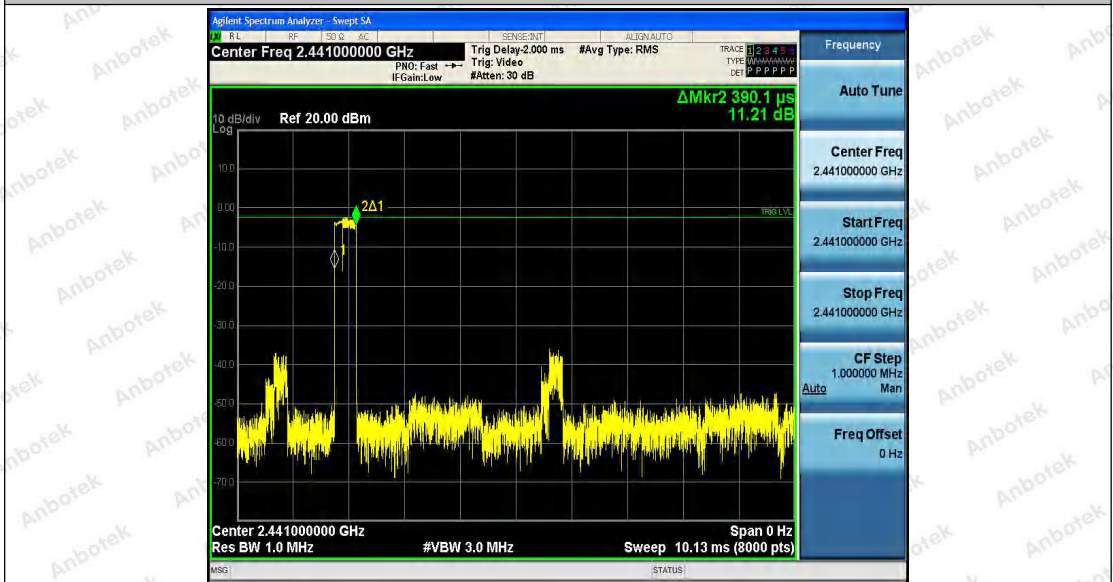
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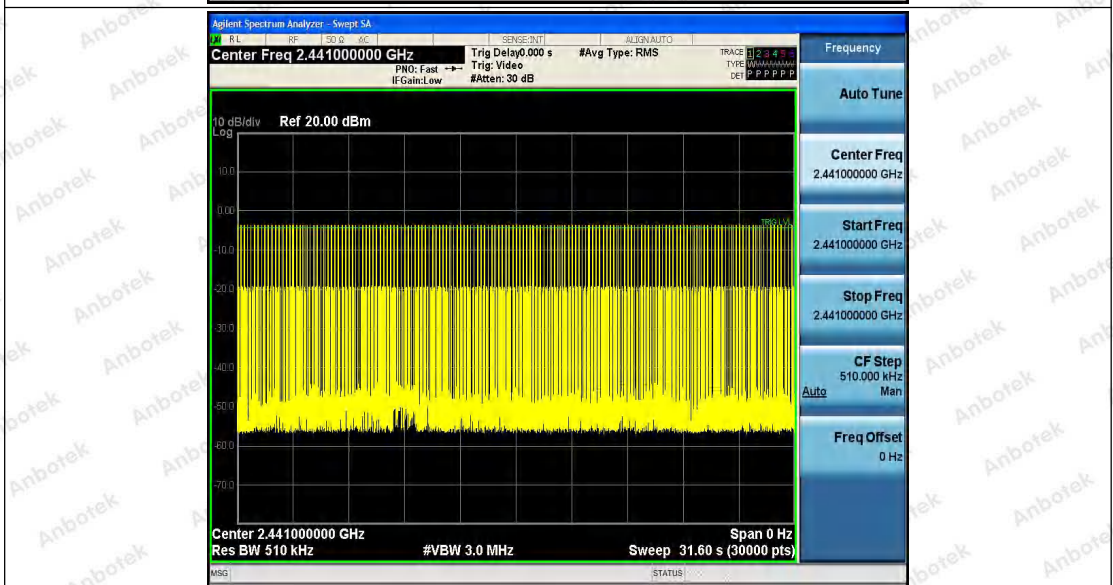
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



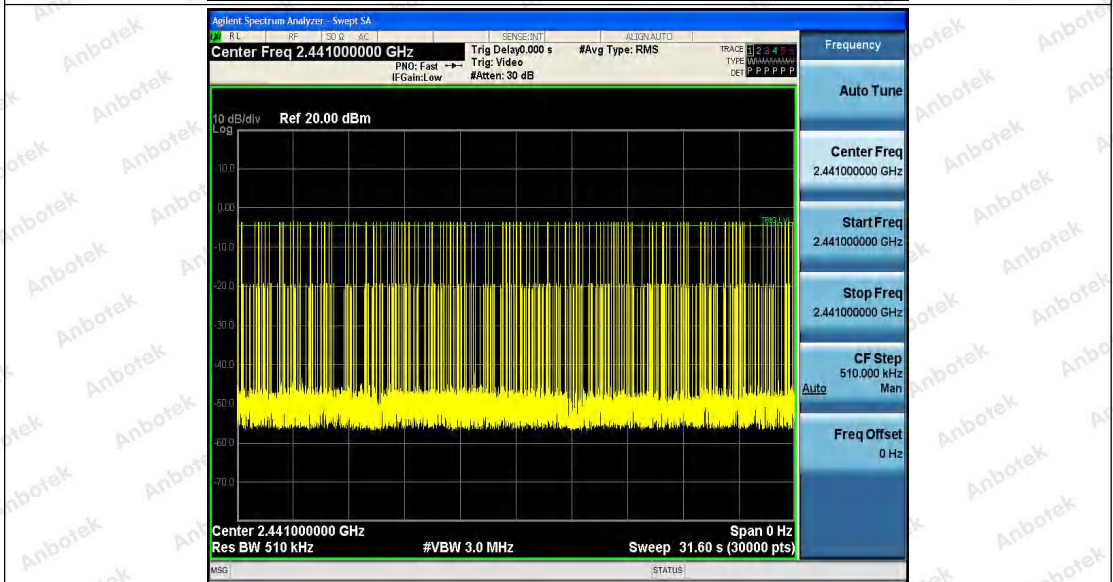
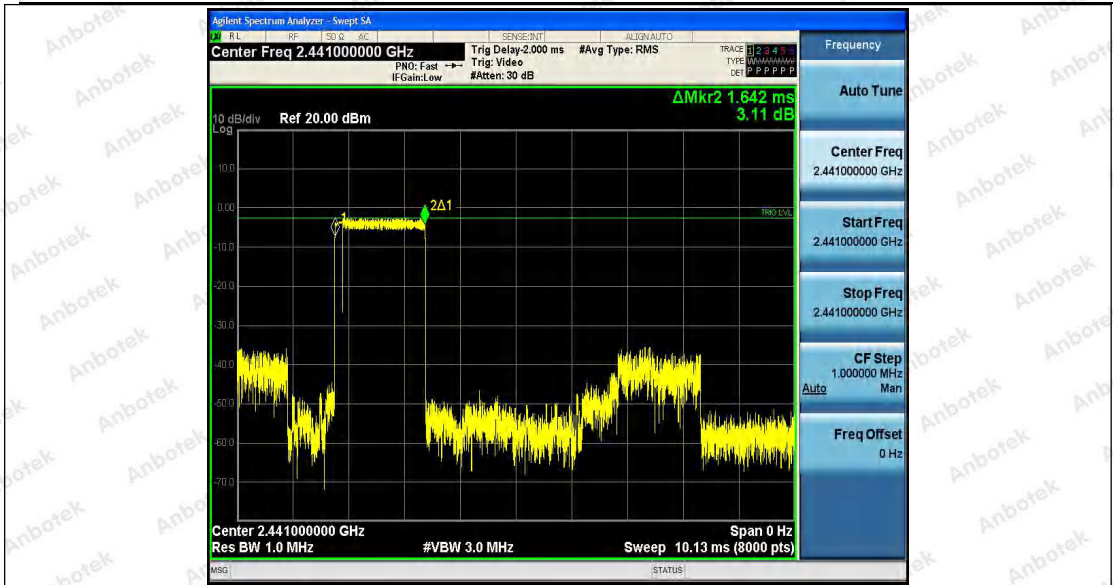
2DH3_Ant1_Hop

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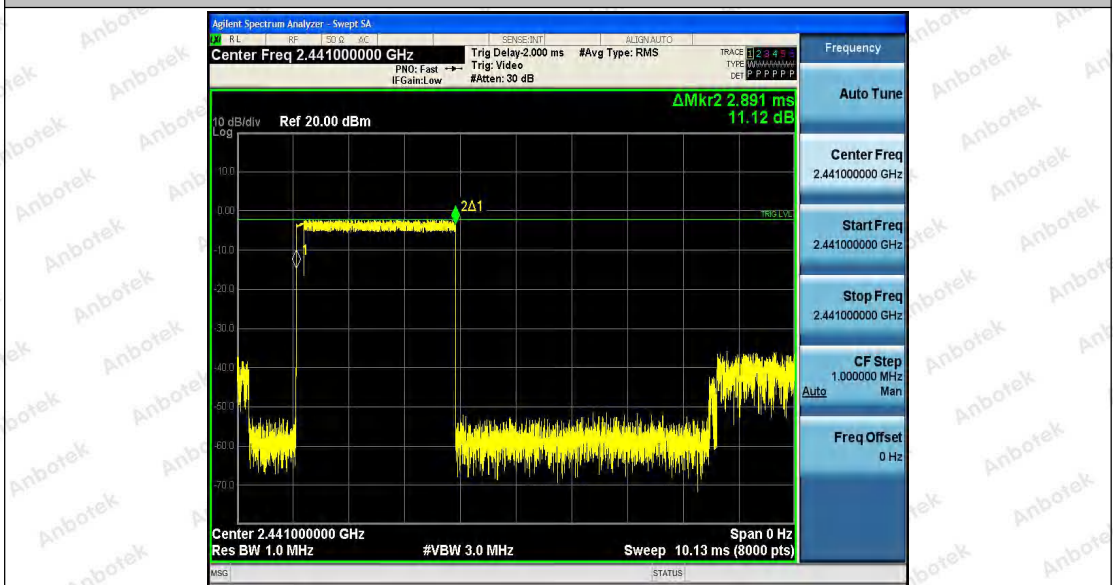
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2DH5_Ant1_Hop

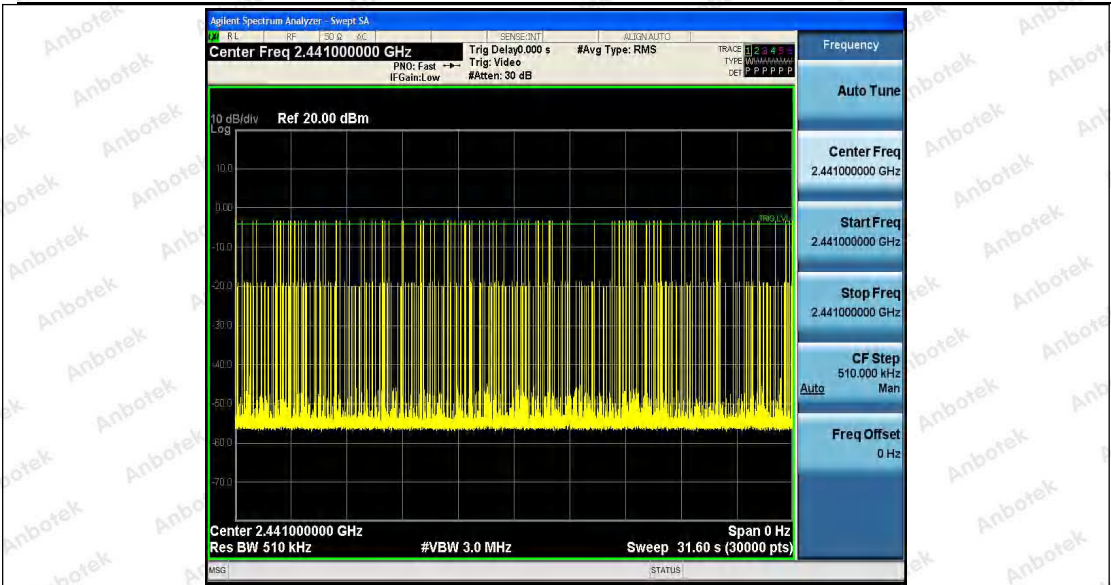


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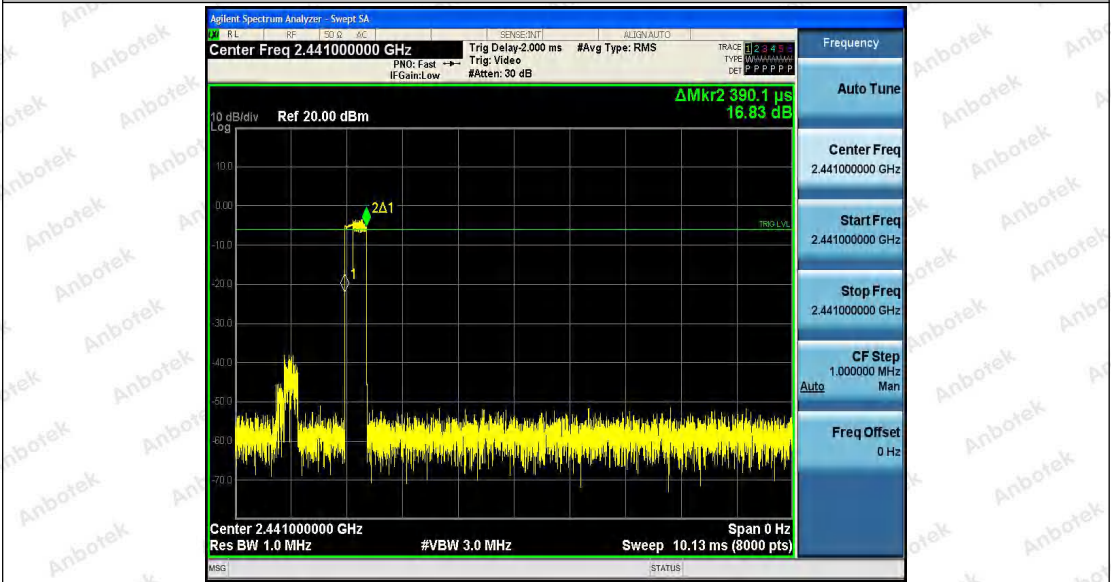
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3DH1_Ant1_Hop

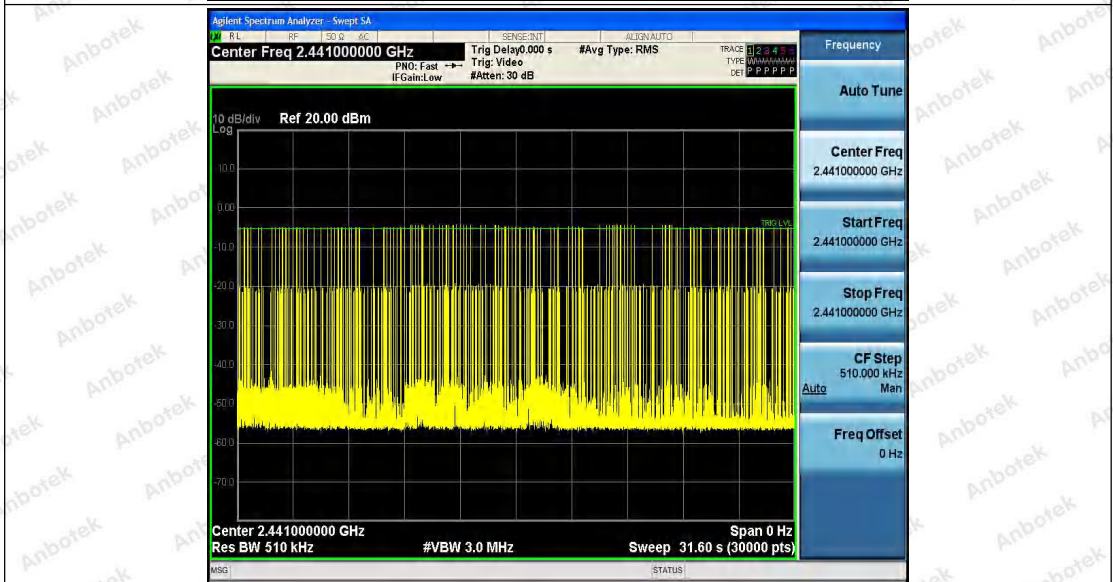
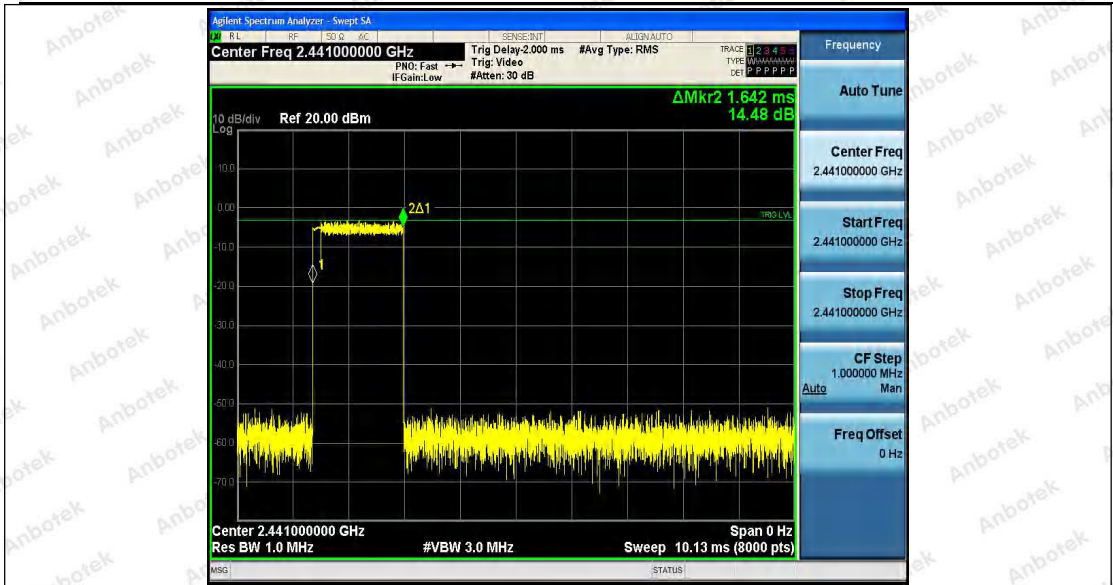


3DH3_Ant1_Hop

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3DH5_Ant1_Hop

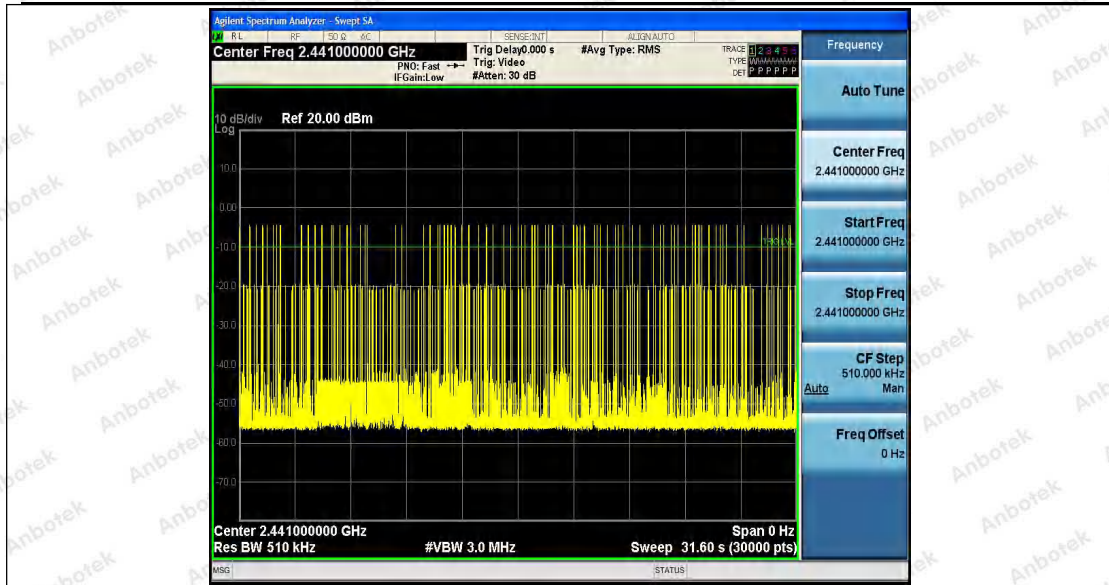


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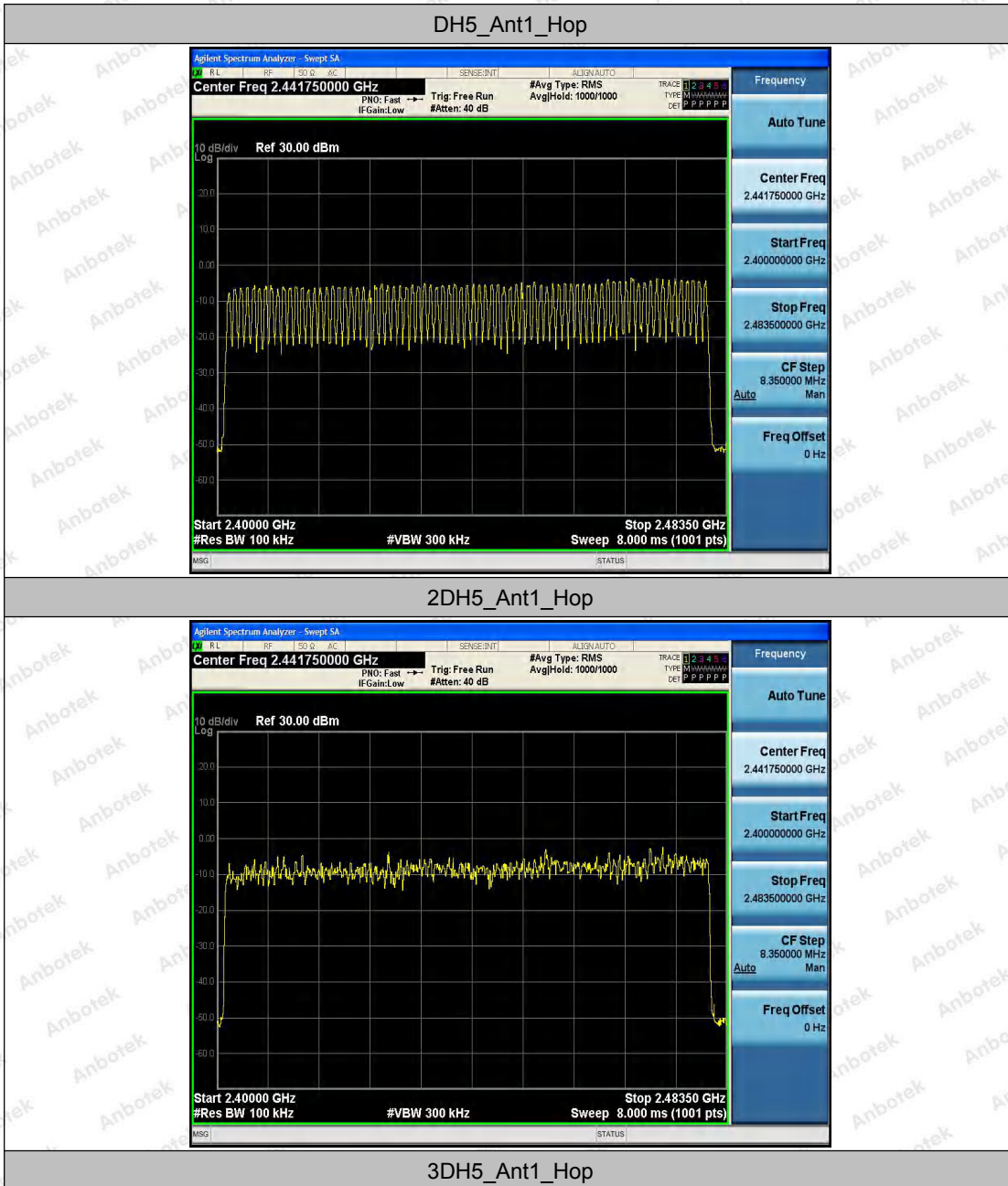
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Appendix F: Number of hopping channels

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

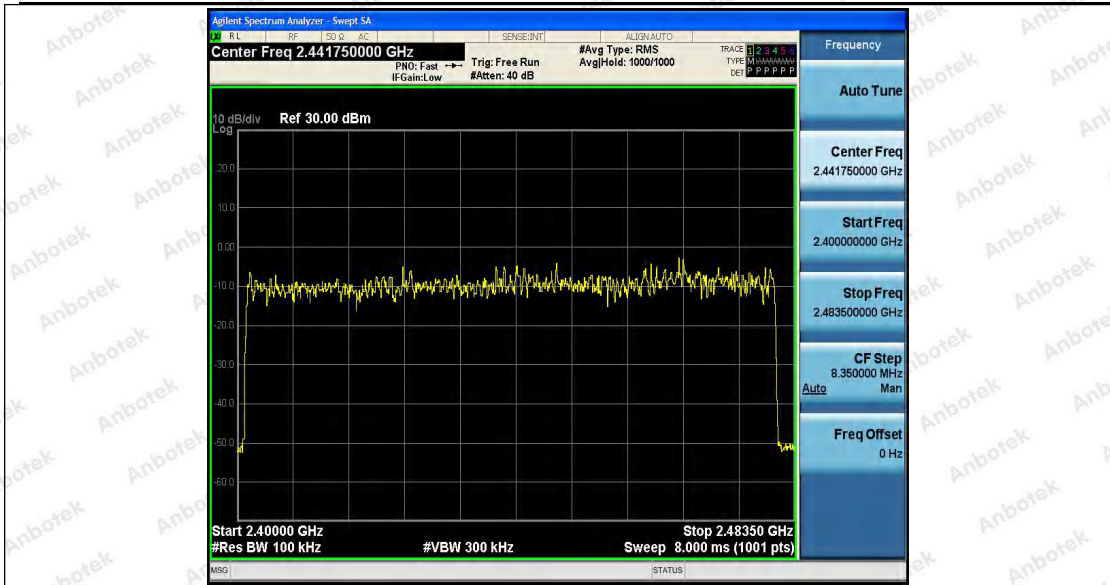


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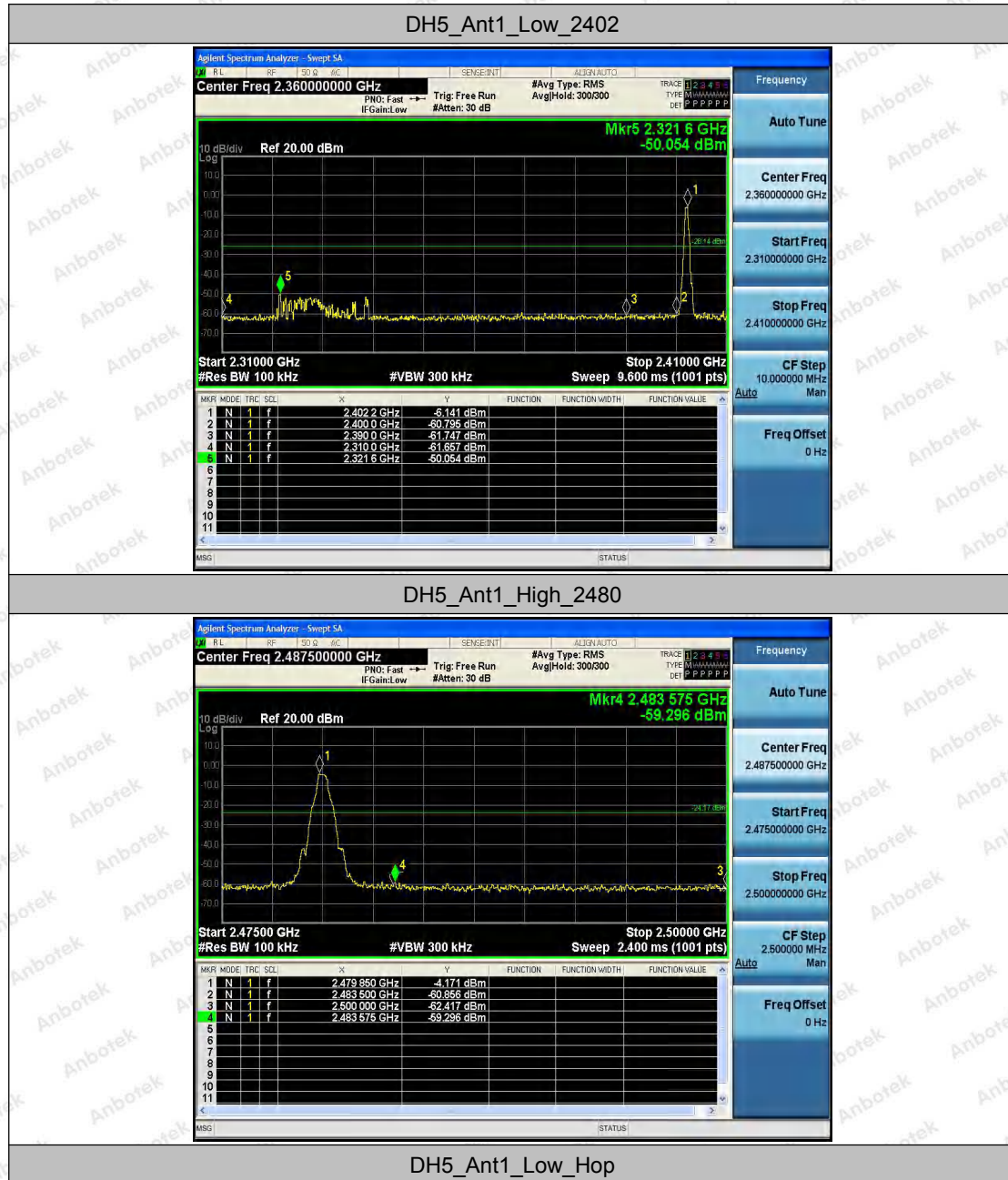
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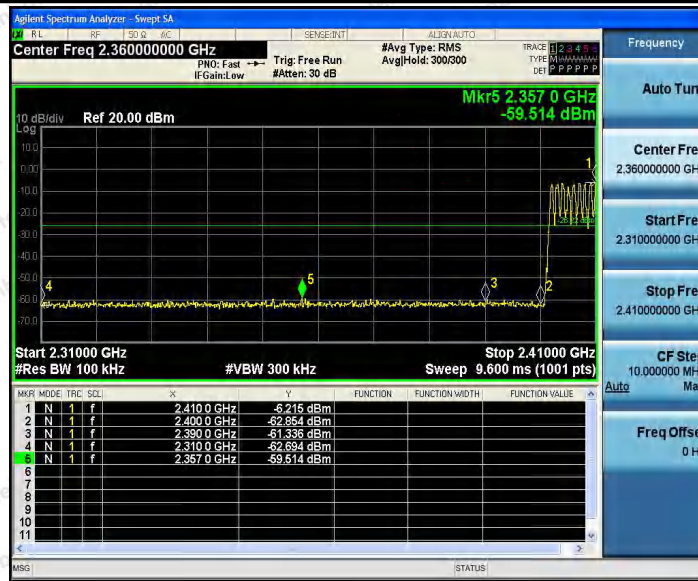
Appendix G: Band edge measurements

Test Result

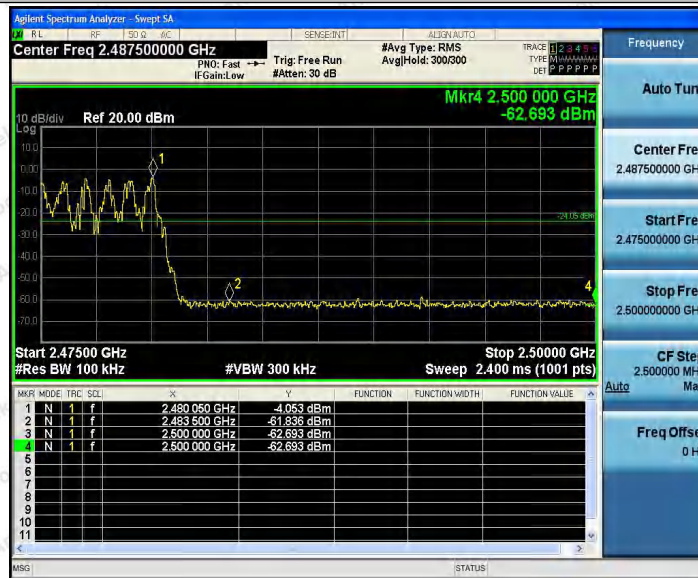
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.14	-50.05	≤-26.14	PASS
		High	2480	-4.17	-59.3	≤-24.17	PASS
		Low	Hop	-6.22	-59.51	≤-26.22	PASS
		High	Hop	-4.05	-62.69	≤-24.05	PASS
2DH5	Ant1	Low	2402	-5.12	-59.23	≤-25.12	PASS
		High	2480	-2.52	-59.21	≤-22.52	PASS
		Low	Hop	-5.34	-51.64	≤-25.34	PASS
		High	Hop	-5.24	-61.92	≤-25.24	PASS
3DH5	Ant1	Low	2402	-5.97	-56.84	≤-25.97	PASS
		High	2480	-3.63	-59.73	≤-23.63	PASS
		Low	Hop	-7.44	-53.8	≤-27.44	PASS
		High	Hop	-2.96	-62.3	≤-22.96	PASS

Test Graphs

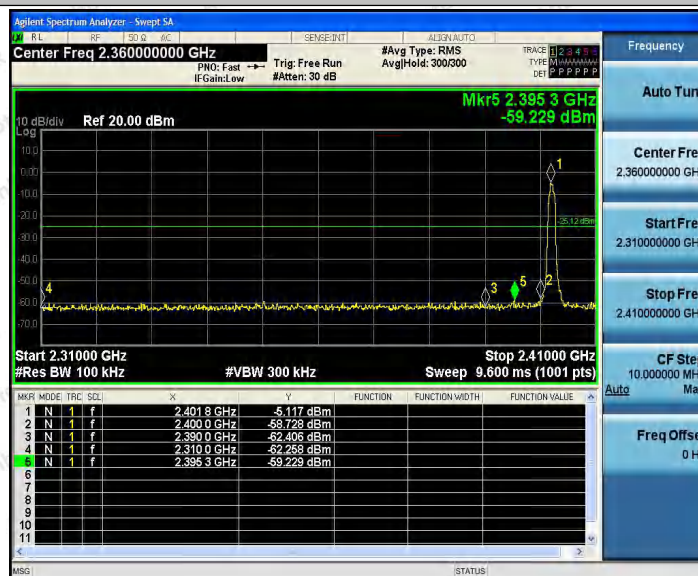




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

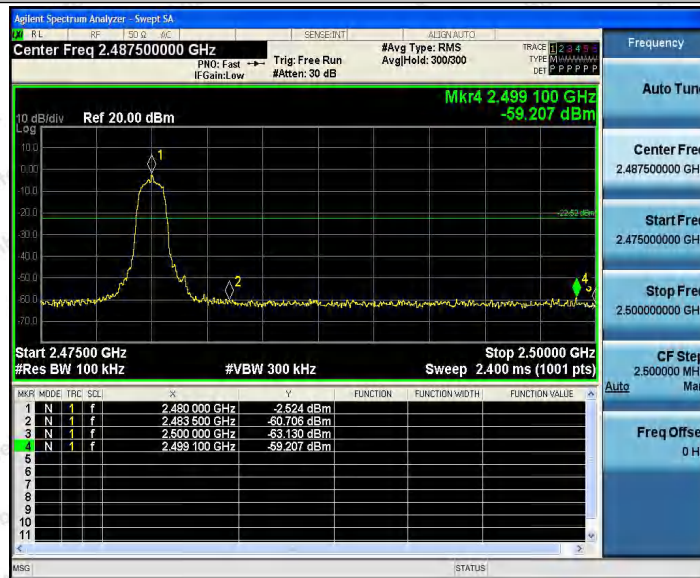


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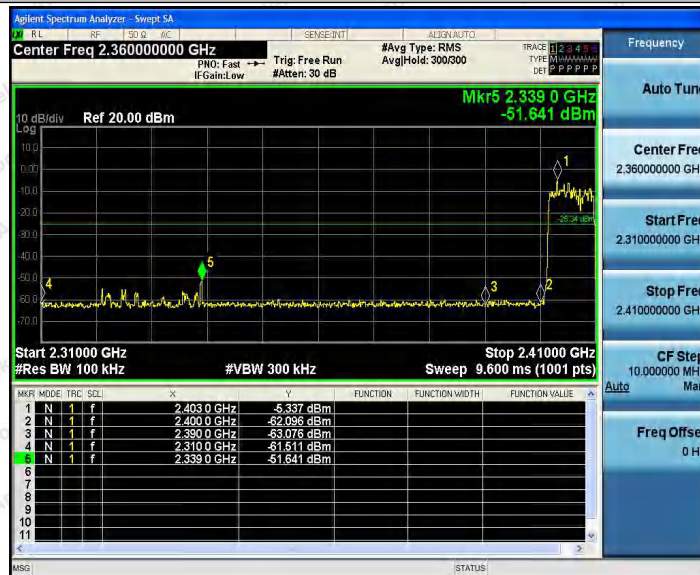
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



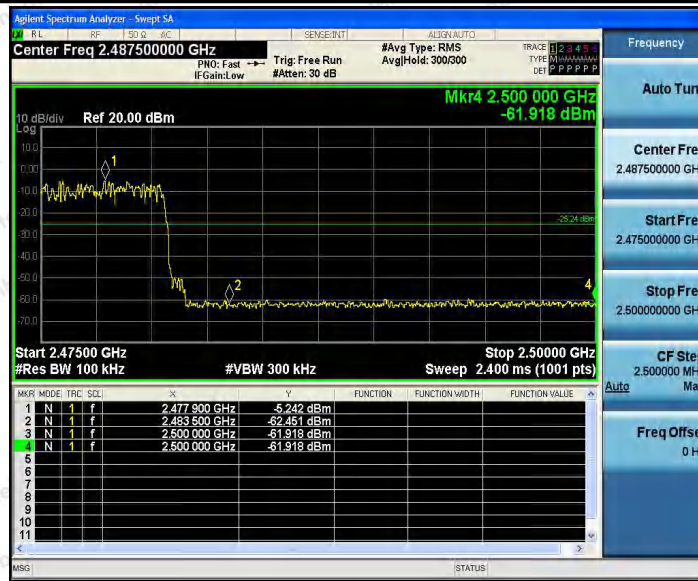
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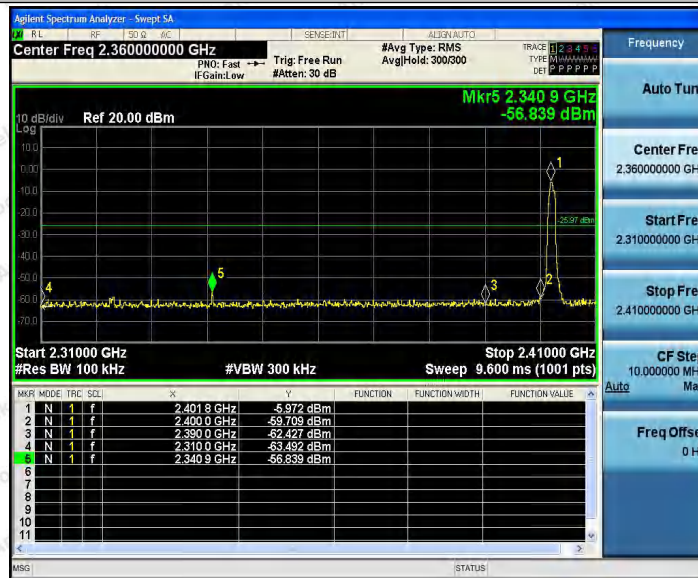
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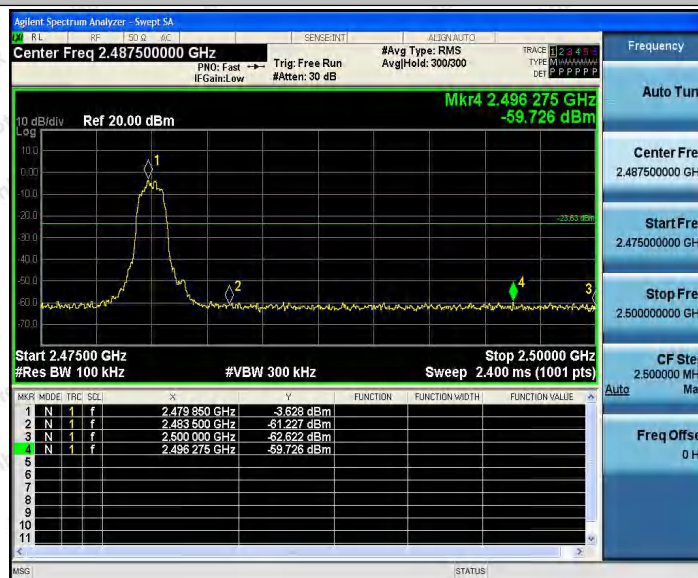
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

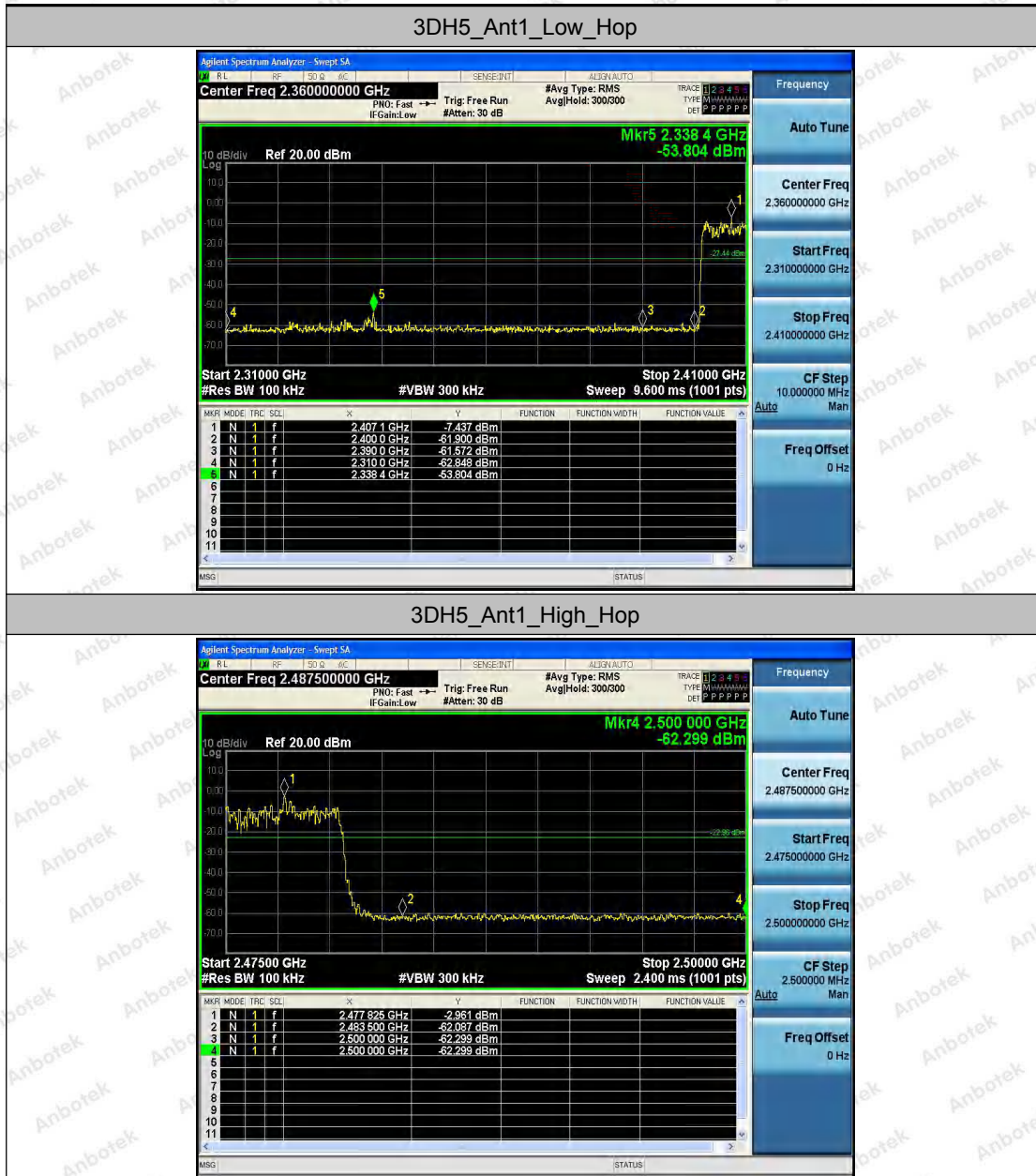


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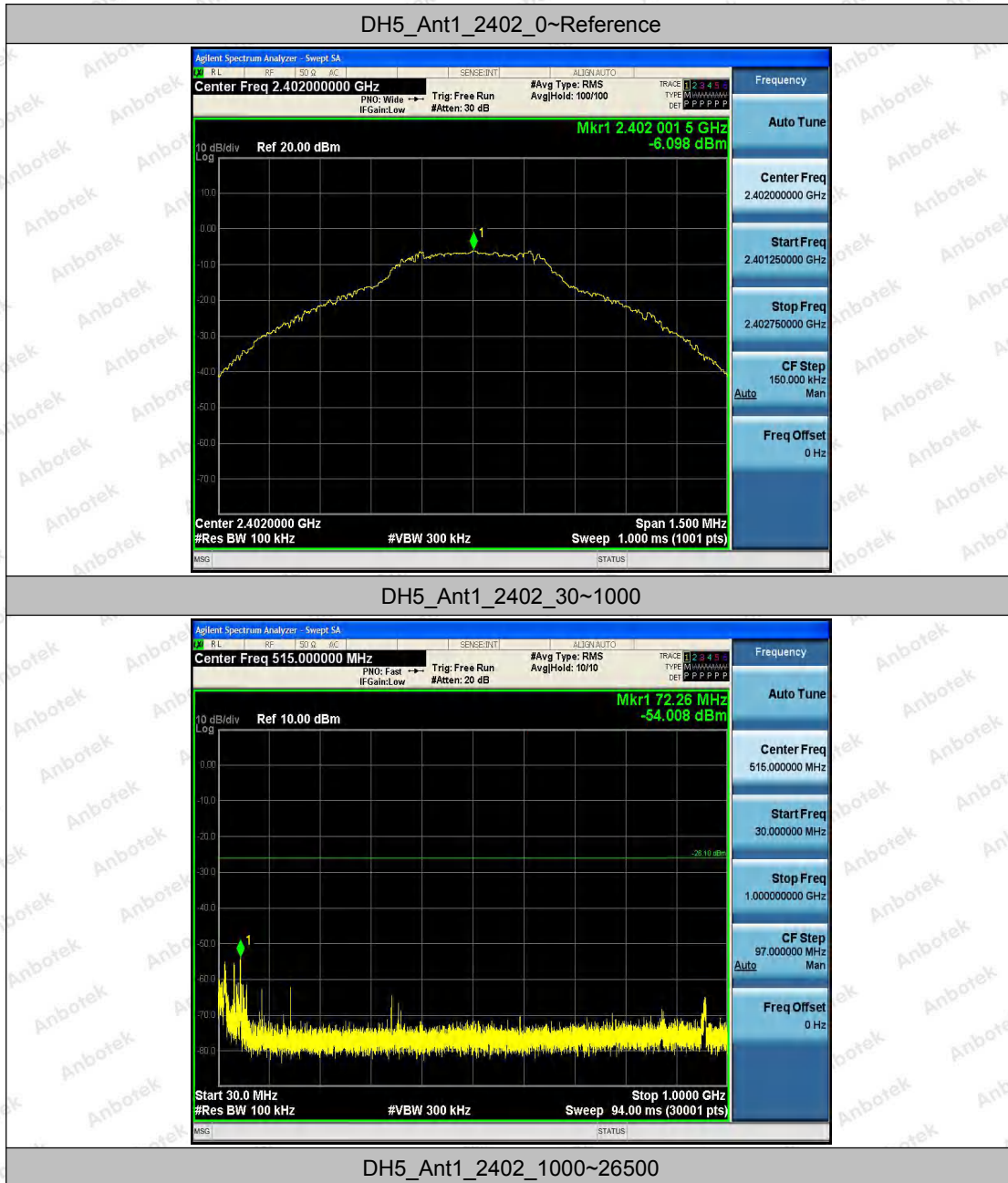
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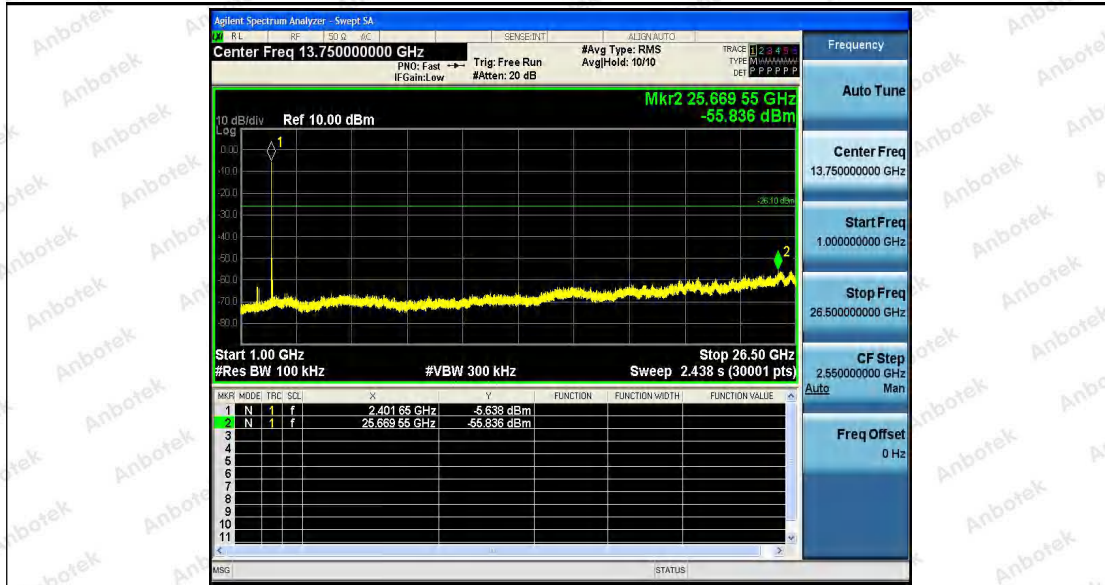
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-54.01	≤-26.1	PASS
			1000~26500	-6.10	-55.84	≤-26.1	PASS
		2441	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-42.43	≤-26.22	PASS
			1000~26500	-6.22	-55.49	≤-26.22	PASS
		2480	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-53.55	≤-24.36	PASS
			1000~26500	-4.36	-54.84	≤-24.36	PASS
2DH5	Ant1	2402	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-54.17	≤-25.24	PASS
			1000~26500	-5.24	-54.77	≤-25.24	PASS
		2441	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-54.54	≤-24.9	PASS
			1000~26500	-4.90	-55.51	≤-24.9	PASS
		2480	Reference	-2.72	-2.72	---	PASS
			30~1000	-2.72	-54.7	≤-22.72	PASS
			1000~26500	-2.72	-55.8	≤-22.72	PASS
3DH5	Ant1	2402	Reference	-6.03	-6.03	---	PASS
			30~1000	-6.03	-53.2	≤-26.03	PASS
			1000~26500	-6.03	-54.9	≤-26.03	PASS
		2441	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-54.29	≤-24.54	PASS
			1000~26500	-4.54	-55.29	≤-24.54	PASS
		2480	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-53.64	≤-23.65	PASS
			1000~26500	-3.65	-37.38	≤-23.65	PASS

Test Graphs

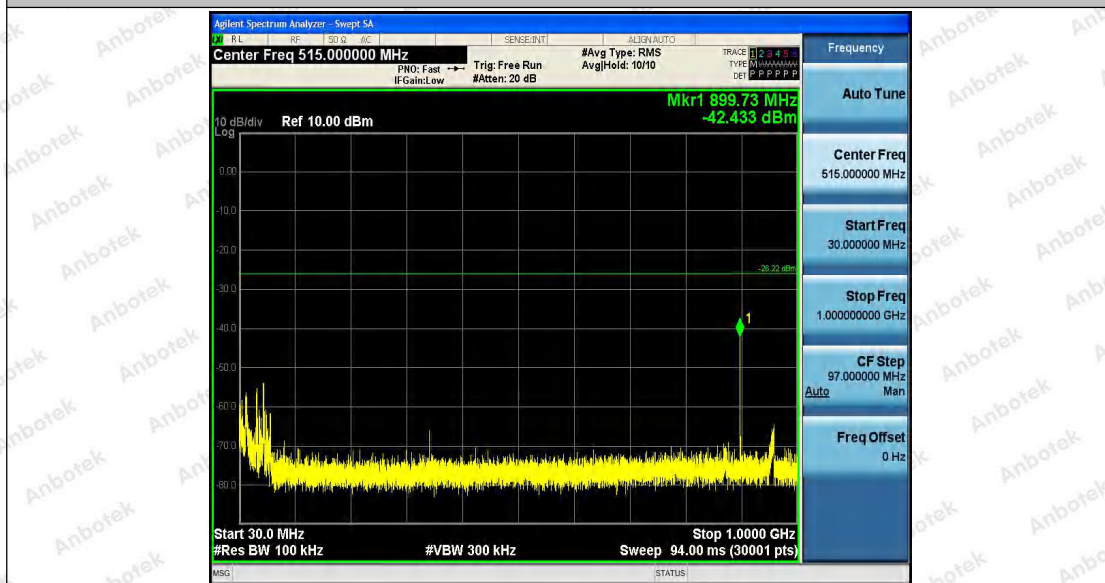




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

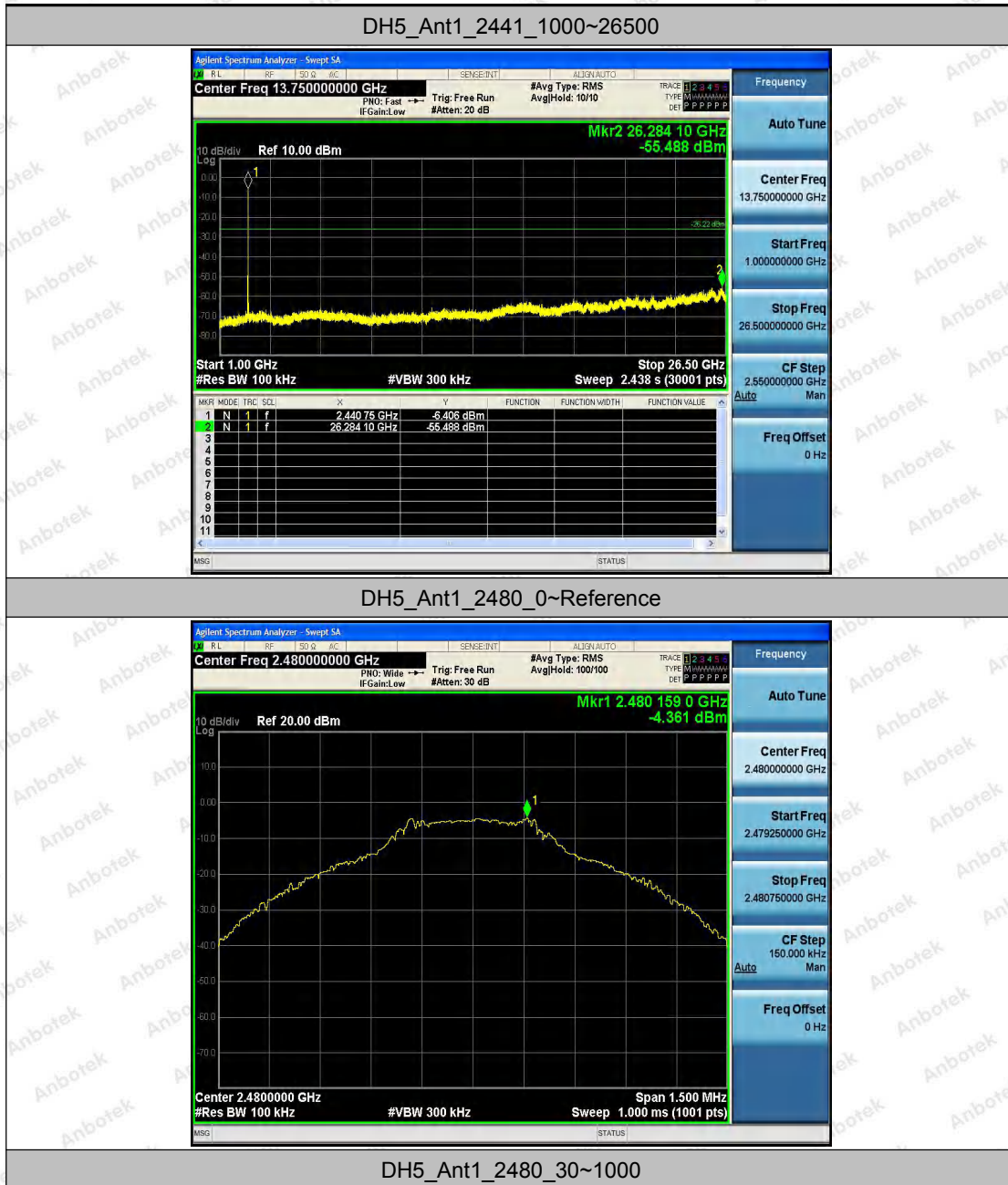


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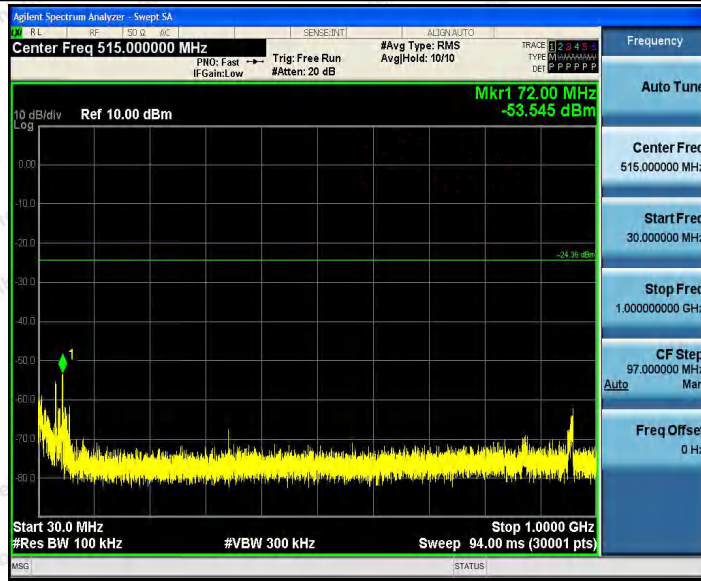


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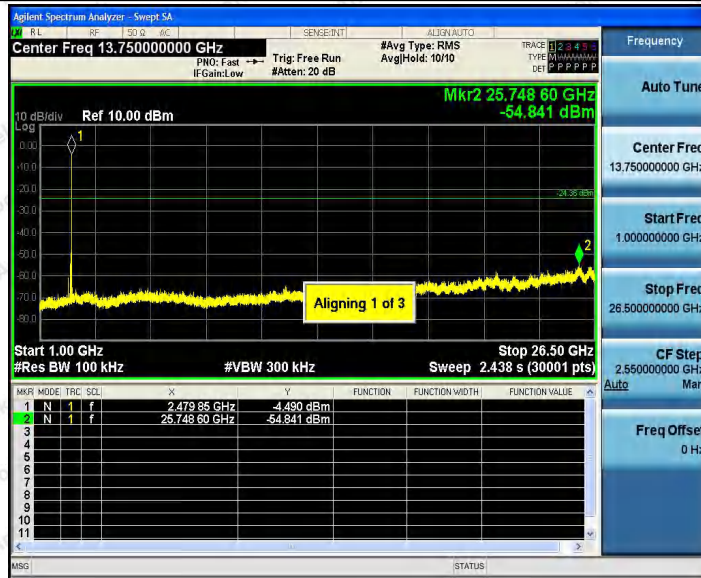
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

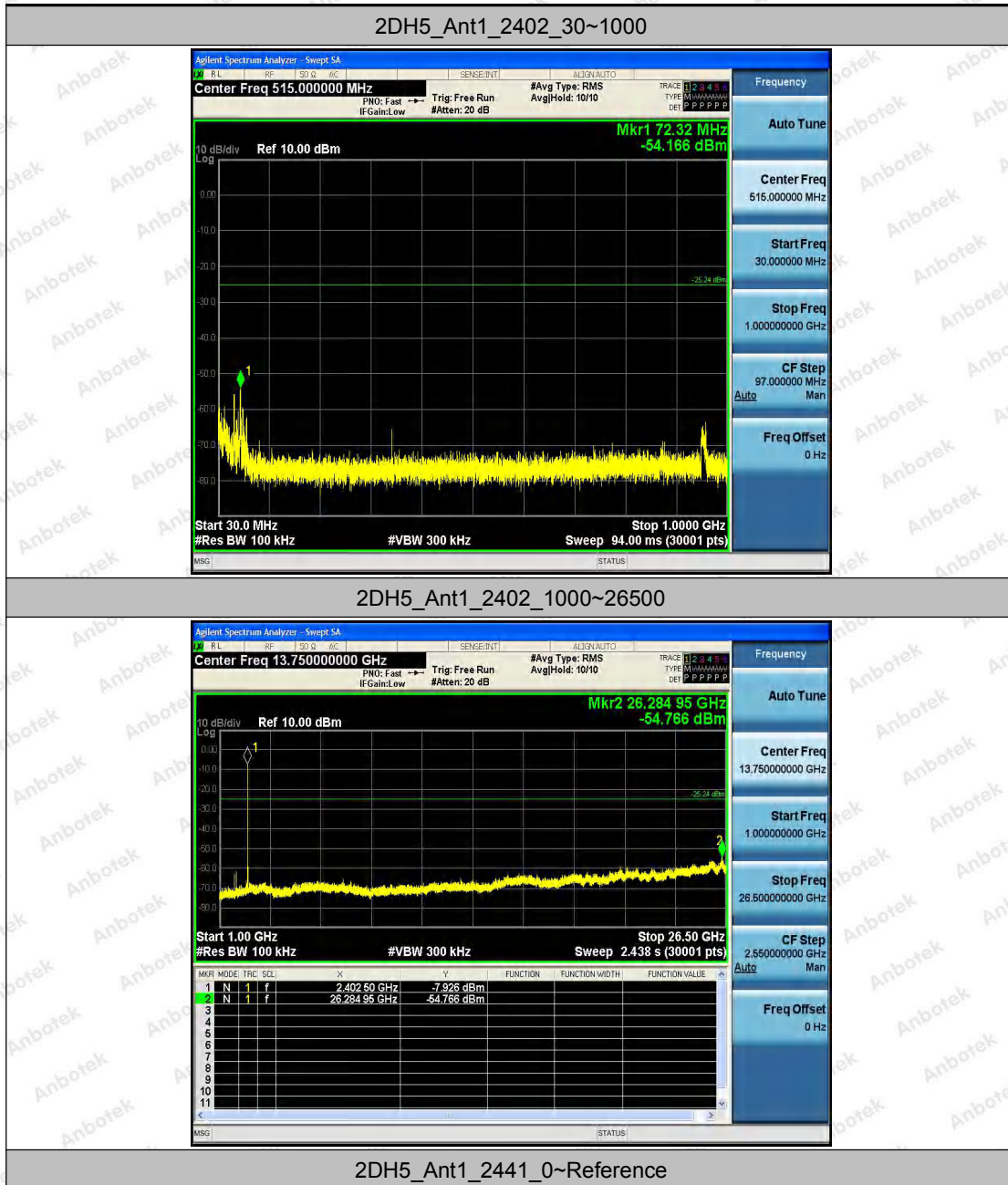


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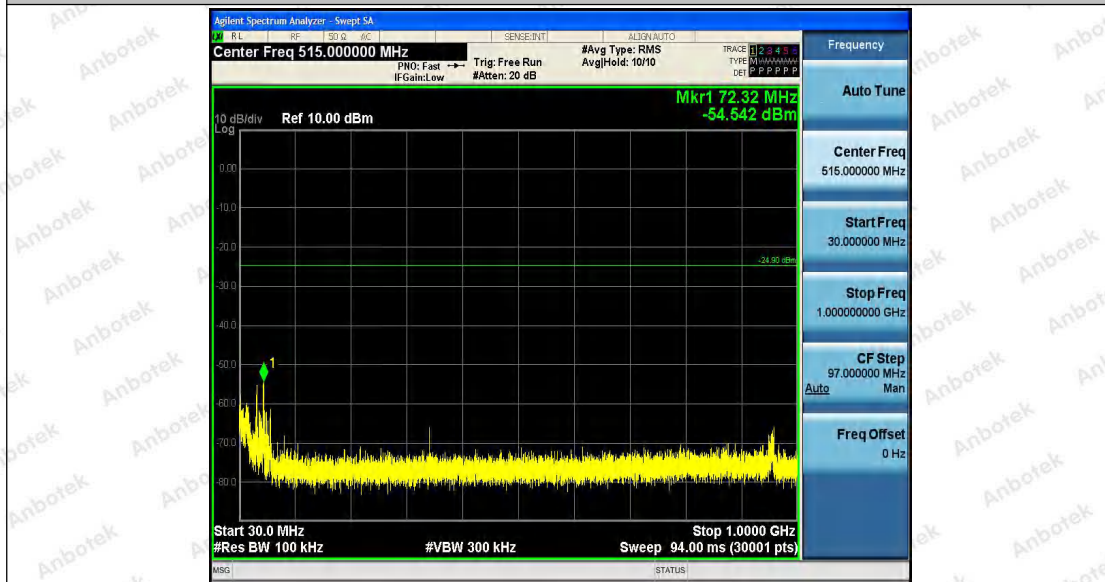
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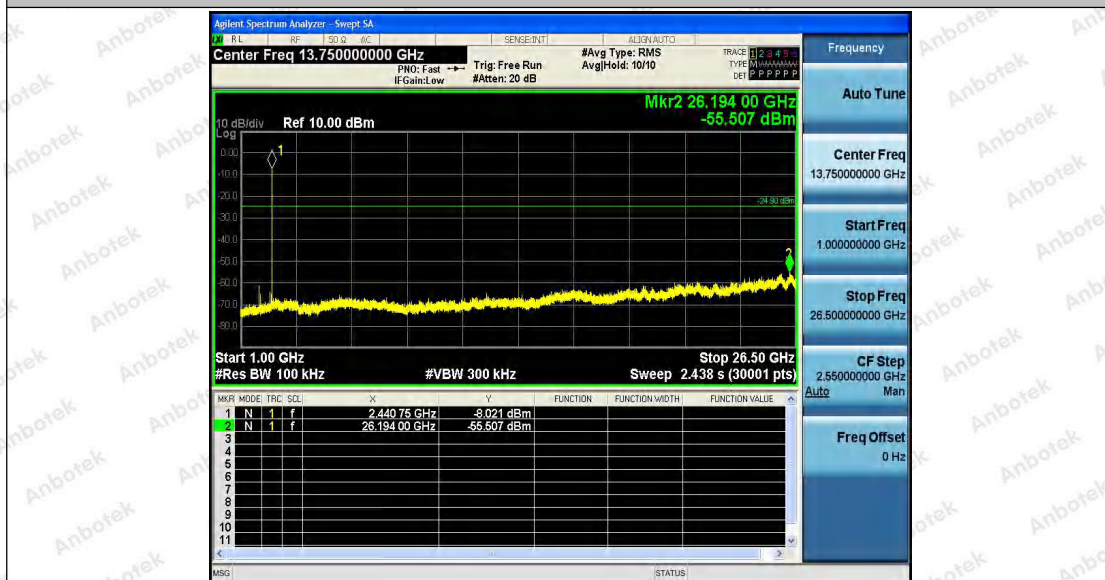
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

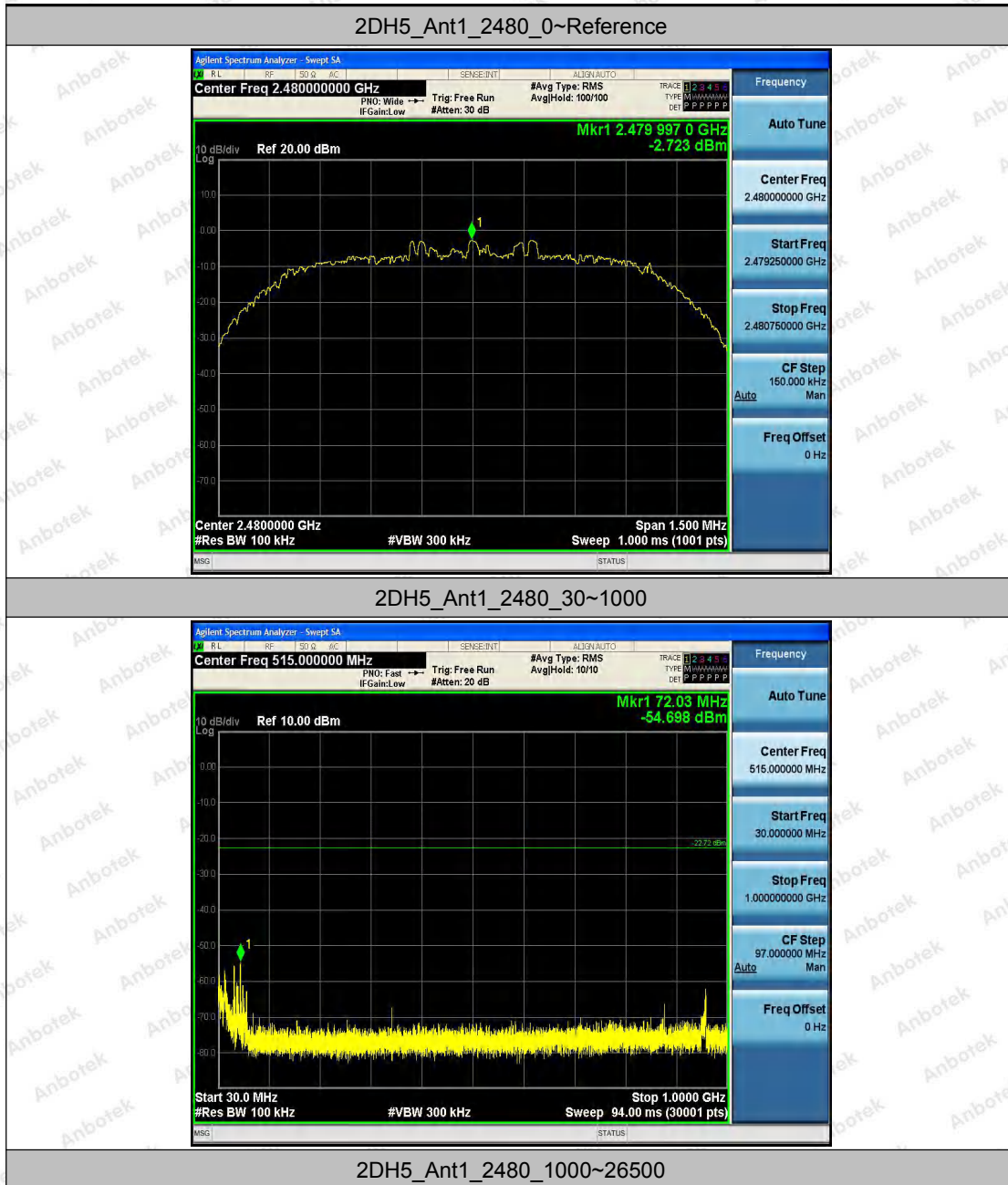


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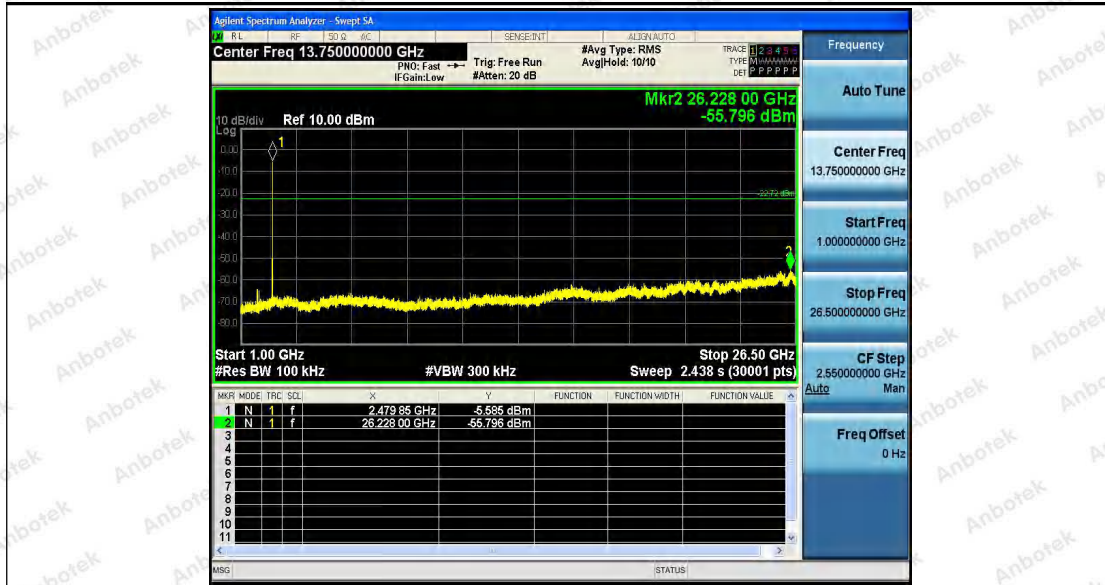


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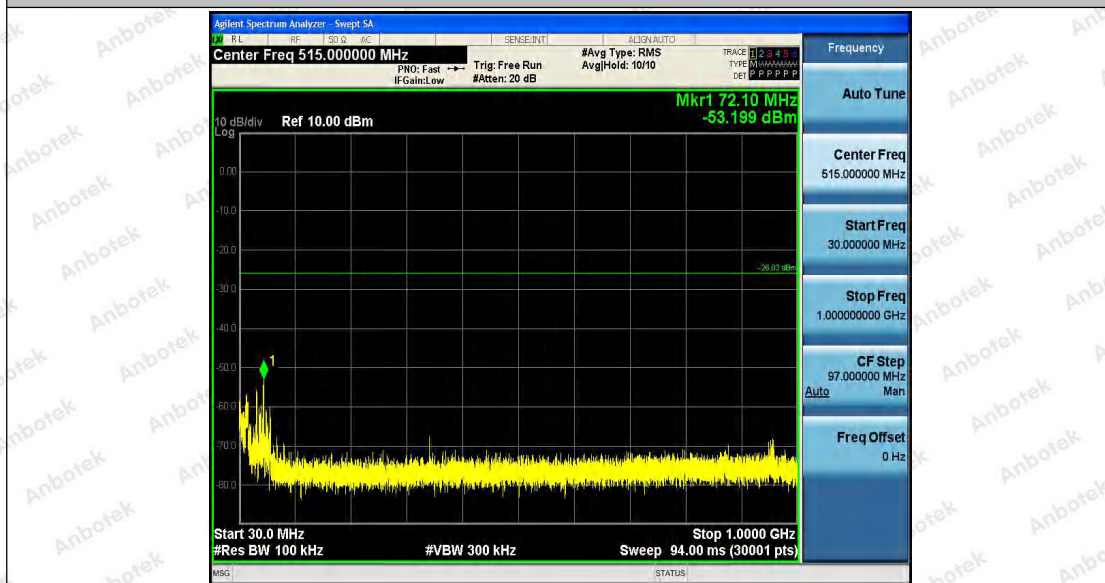
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

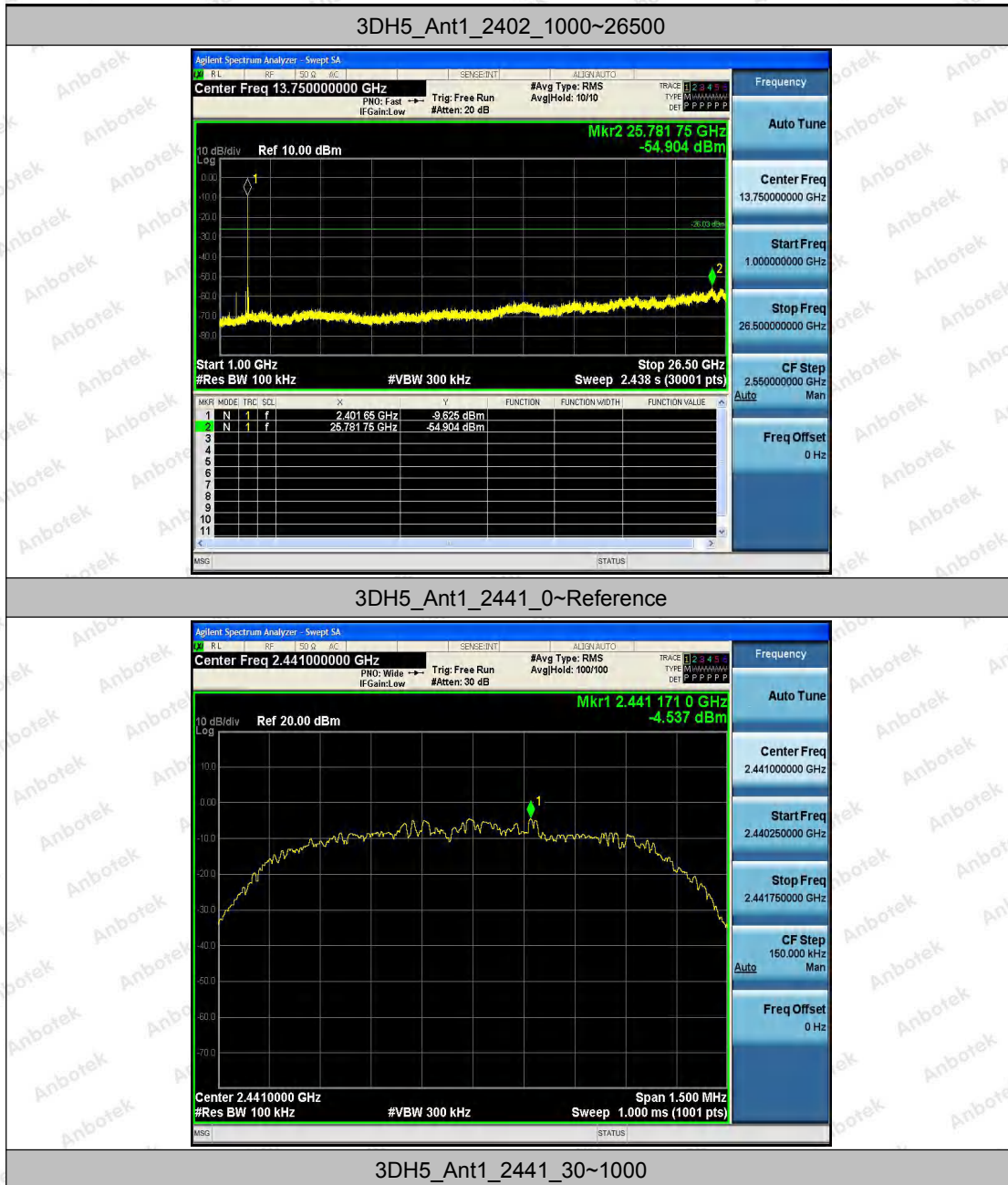


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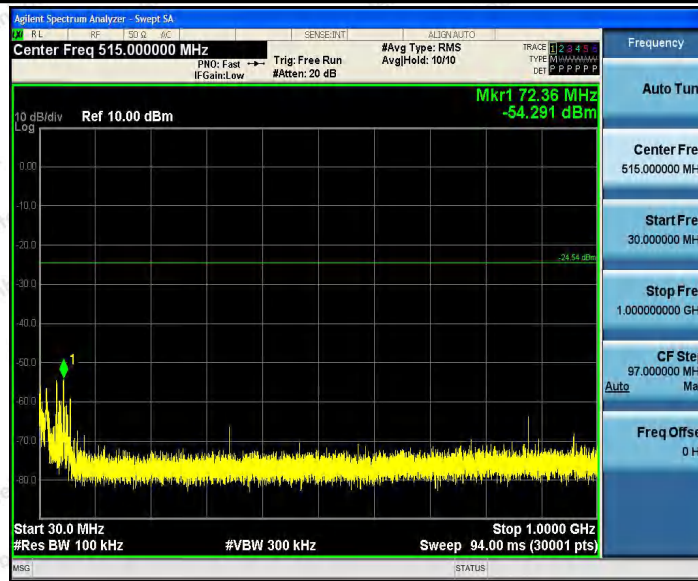


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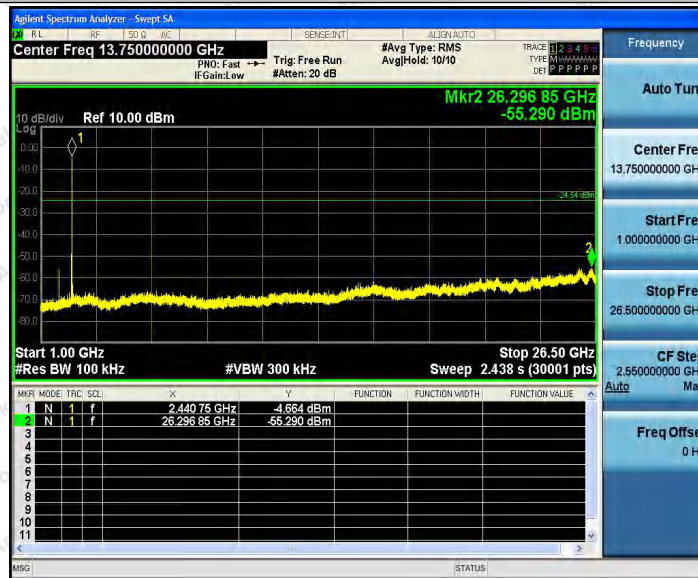
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

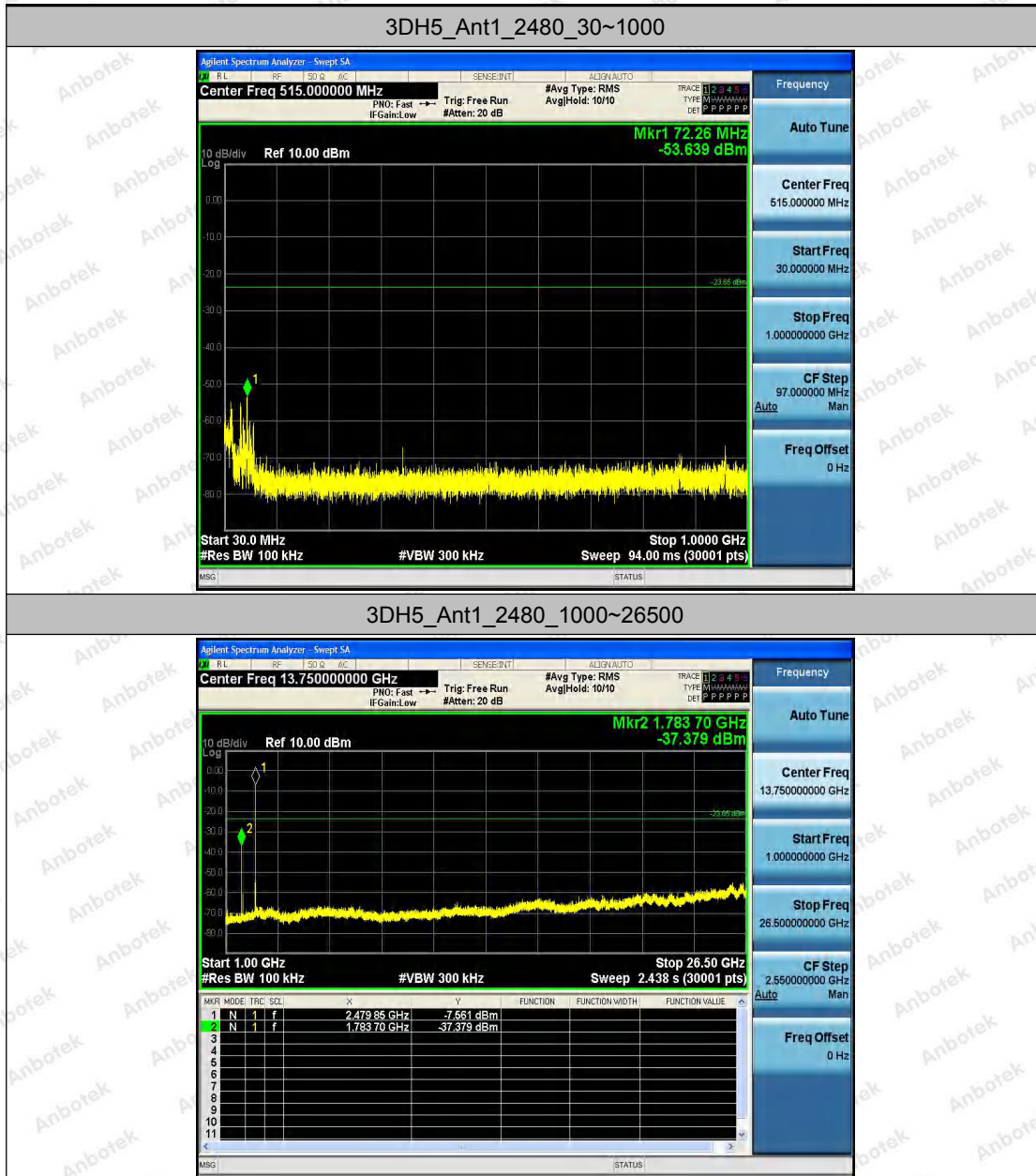


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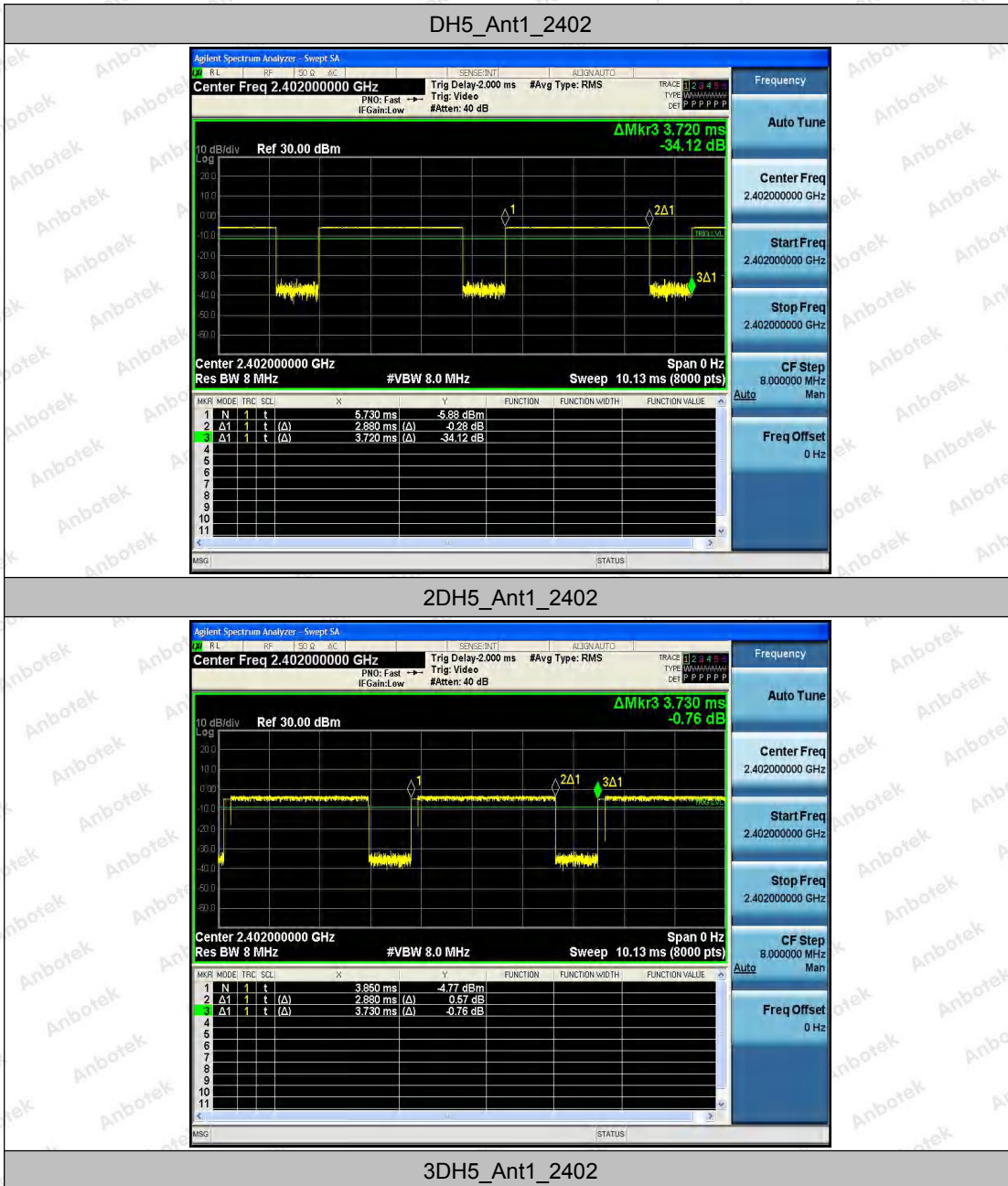
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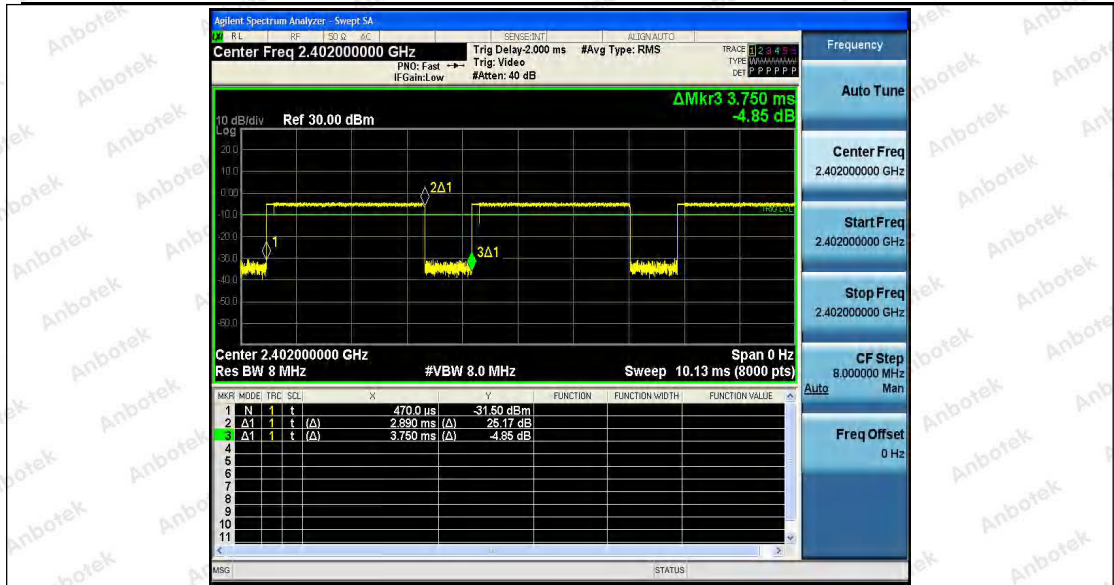
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.72	0.7742	77.42	1.11	---	PASS
2DH5	Ant1	2402	2.88	3.73	0.7721	77.21	1.12	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---