

Appendix Test Data

Report No.:	18220WC10285801	Test Sample No.:	1-2-2
Start Test Date:	2021.12.28	Finish Test Date:	2022.1.4
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	56 %
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	2401.532	2402.474	---	PASS
		2441	0.945	2440.532	2441.477	---	PASS
		2480	0.948	2479.532	2480.480	---	PASS
2DH5	Ant1	2402	1.347	2401.325	2402.672	---	PASS
		2441	1.311	2440.337	2441.648	---	PASS
		2480	1.269	2479.358	2480.627	---	PASS
3DH5	Ant1	2402	1.341	2401.319	2402.660	---	PASS
		2441	1.293	2440.343	2441.636	---	PASS
		2480	1.272	2479.346	2480.618	---	PASS

Test Graphs





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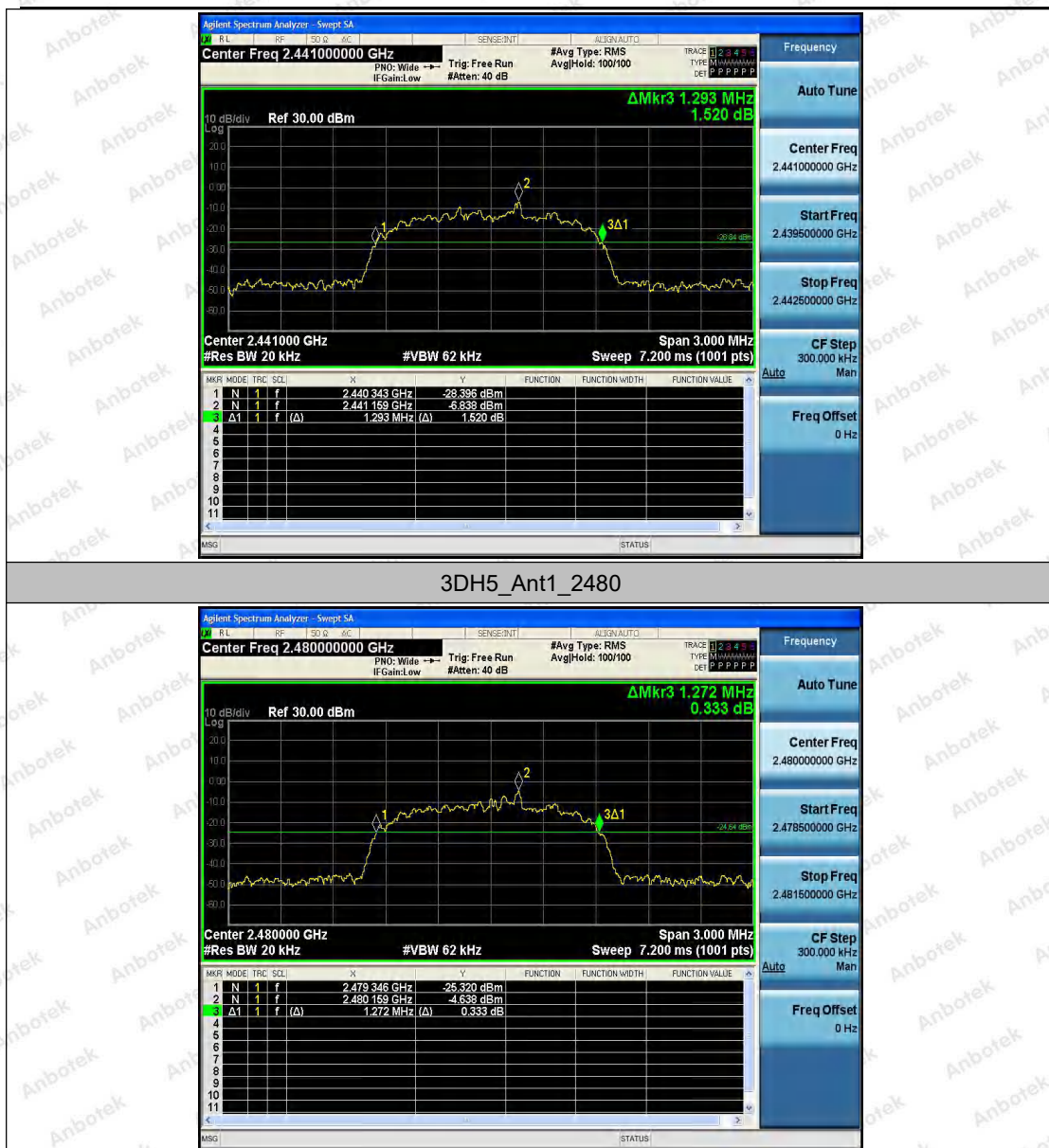
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90451	2401.545	2402.450	---	PASS
		2441	0.89583	2440.547	2441.443	---	PASS
		2480	0.89501	2479.545	2480.440	---	PASS
2DH5	Ant1	2402	1.2002	2401.394	2402.594	---	PASS
		2441	1.1912	2440.398	2441.590	---	PASS
		2480	1.1887	2479.399	2480.588	---	PASS
3DH5	Ant1	2402	1.2059	2401.385	2402.590	---	PASS
		2441	1.1997	2440.387	2441.587	---	PASS
		2480	1.1982	2479.389	2480.587	---	PASS

Test Graphs

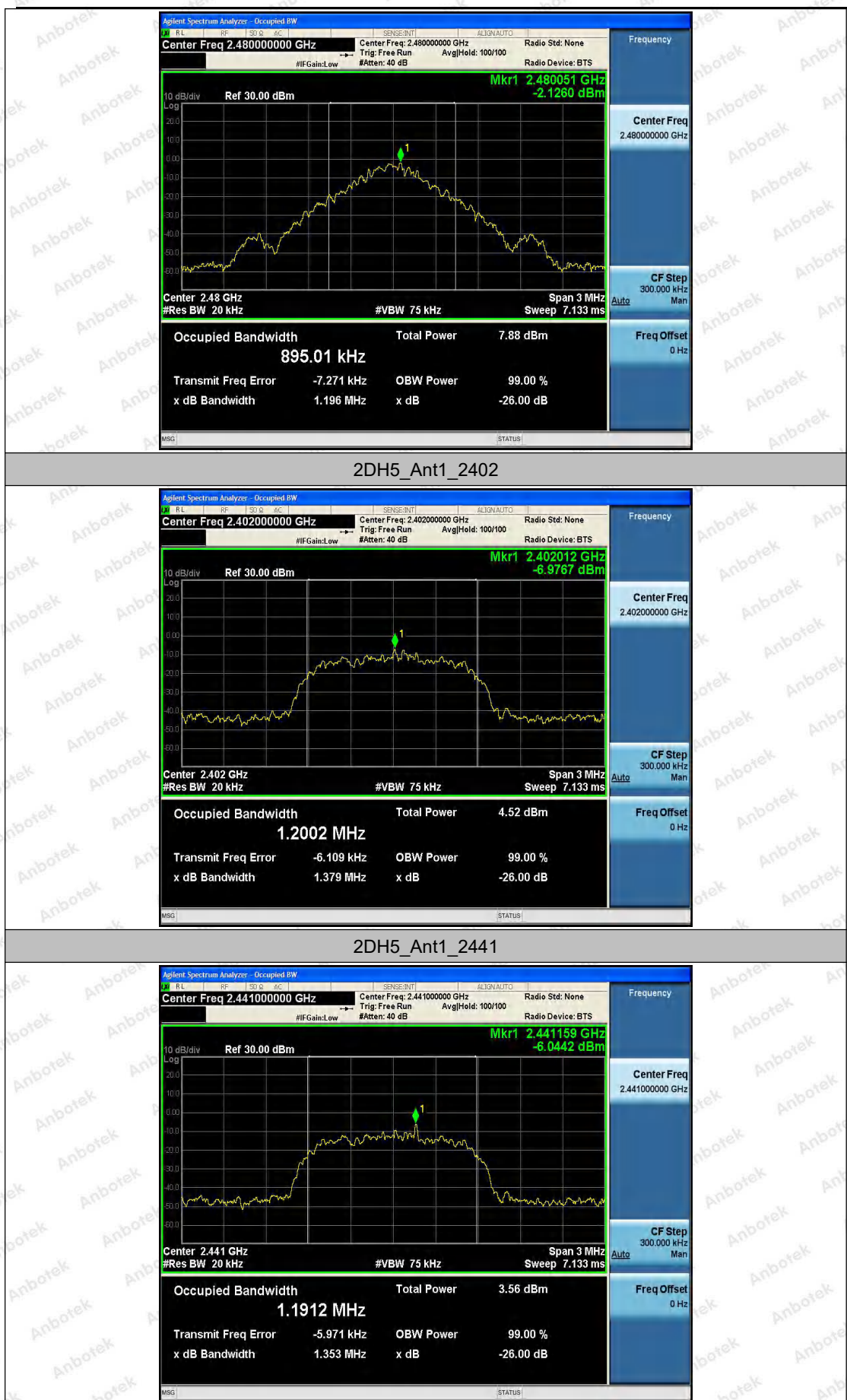


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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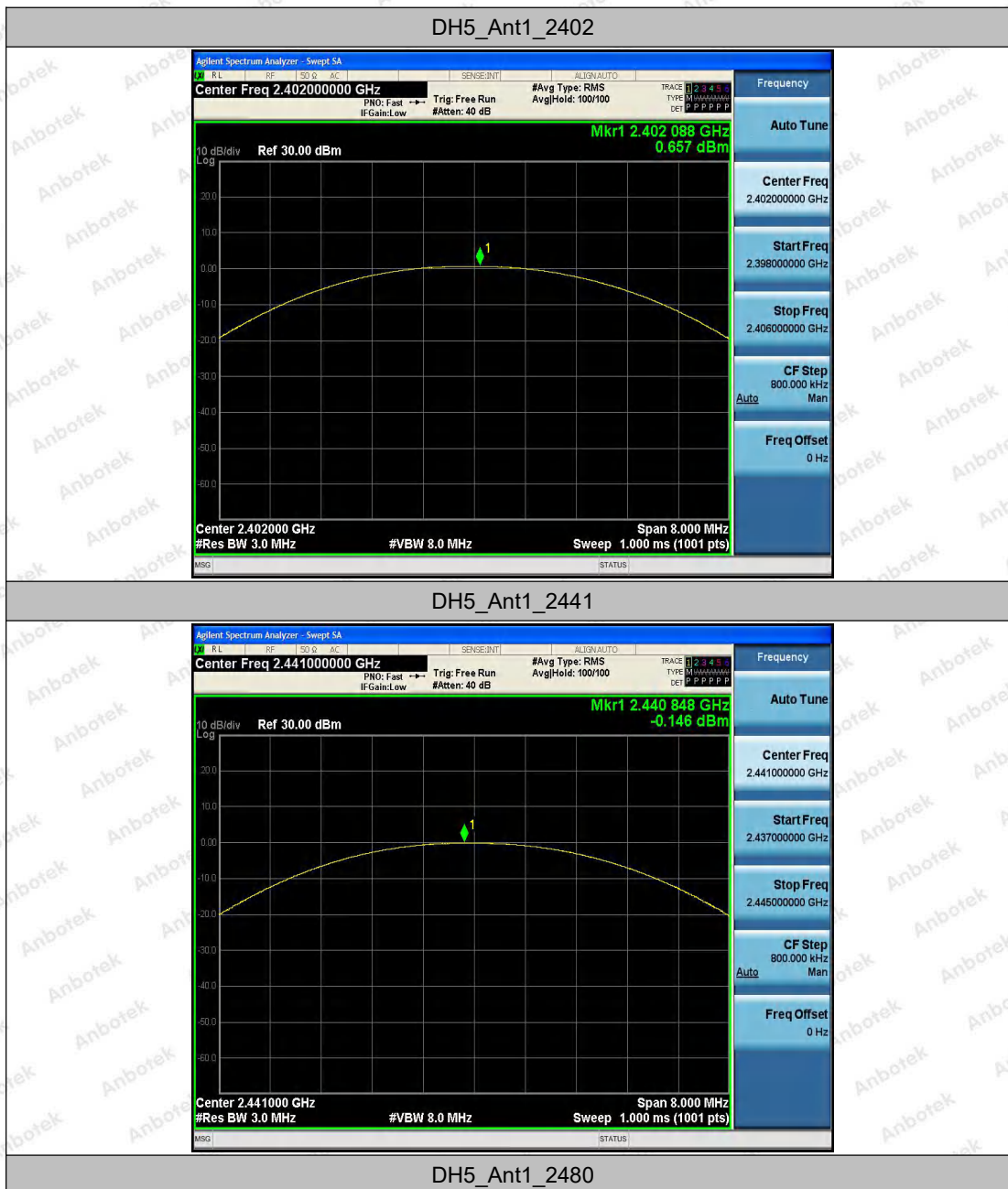
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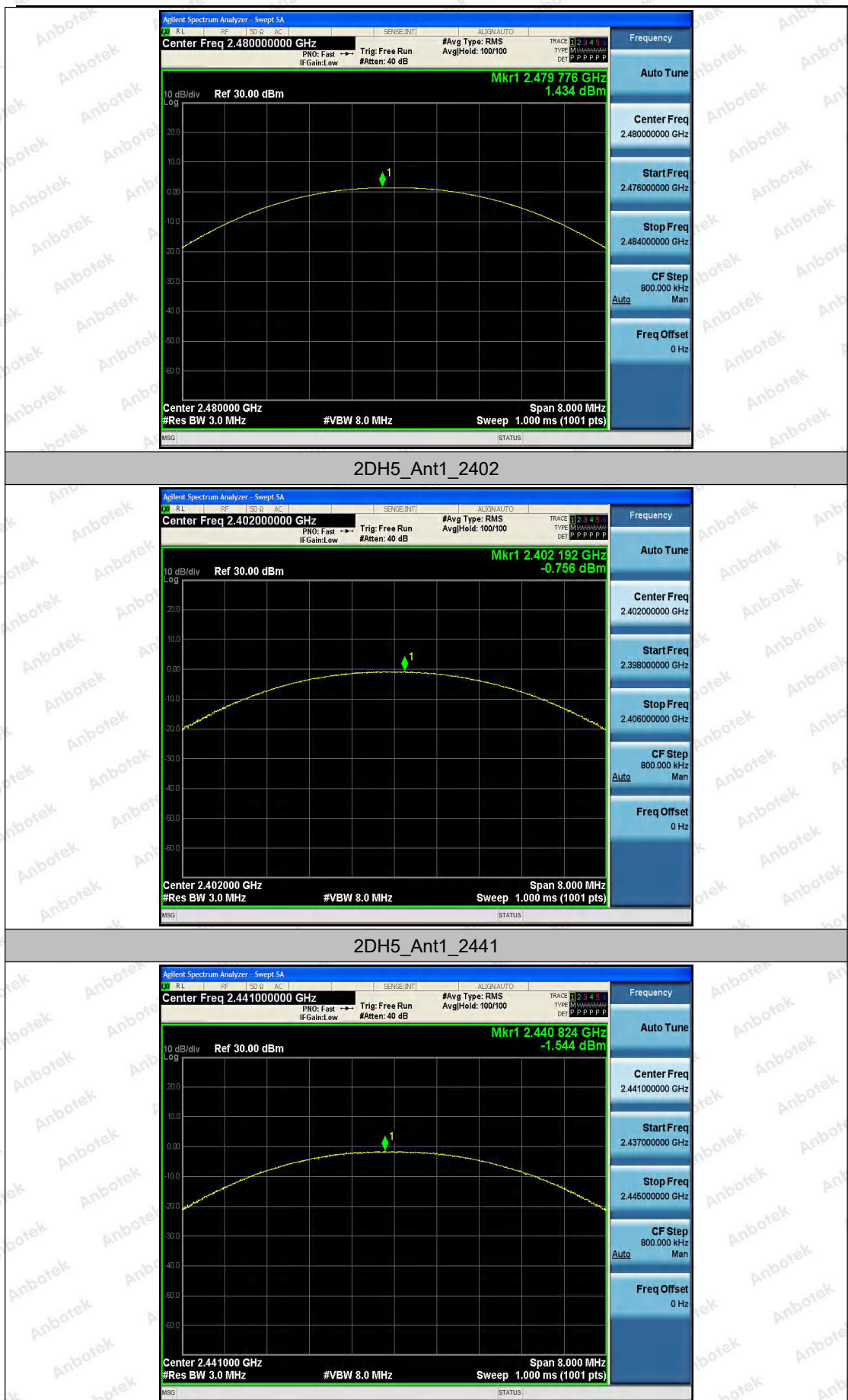
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.66	≤20.97	PASS
		2441	-0.15	≤20.97	PASS
		2480	1.43	≤20.97	PASS
2DH5	Ant1	2402	-0.76	≤20.97	PASS
		2441	-1.54	≤20.97	PASS
		2480	-0.14	≤20.97	PASS
3DH5	Ant1	2402	-0.54	≤20.97	PASS
		2441	-1.39	≤20.97	PASS
		2480	0.07	≤20.97	PASS

Test Graphs



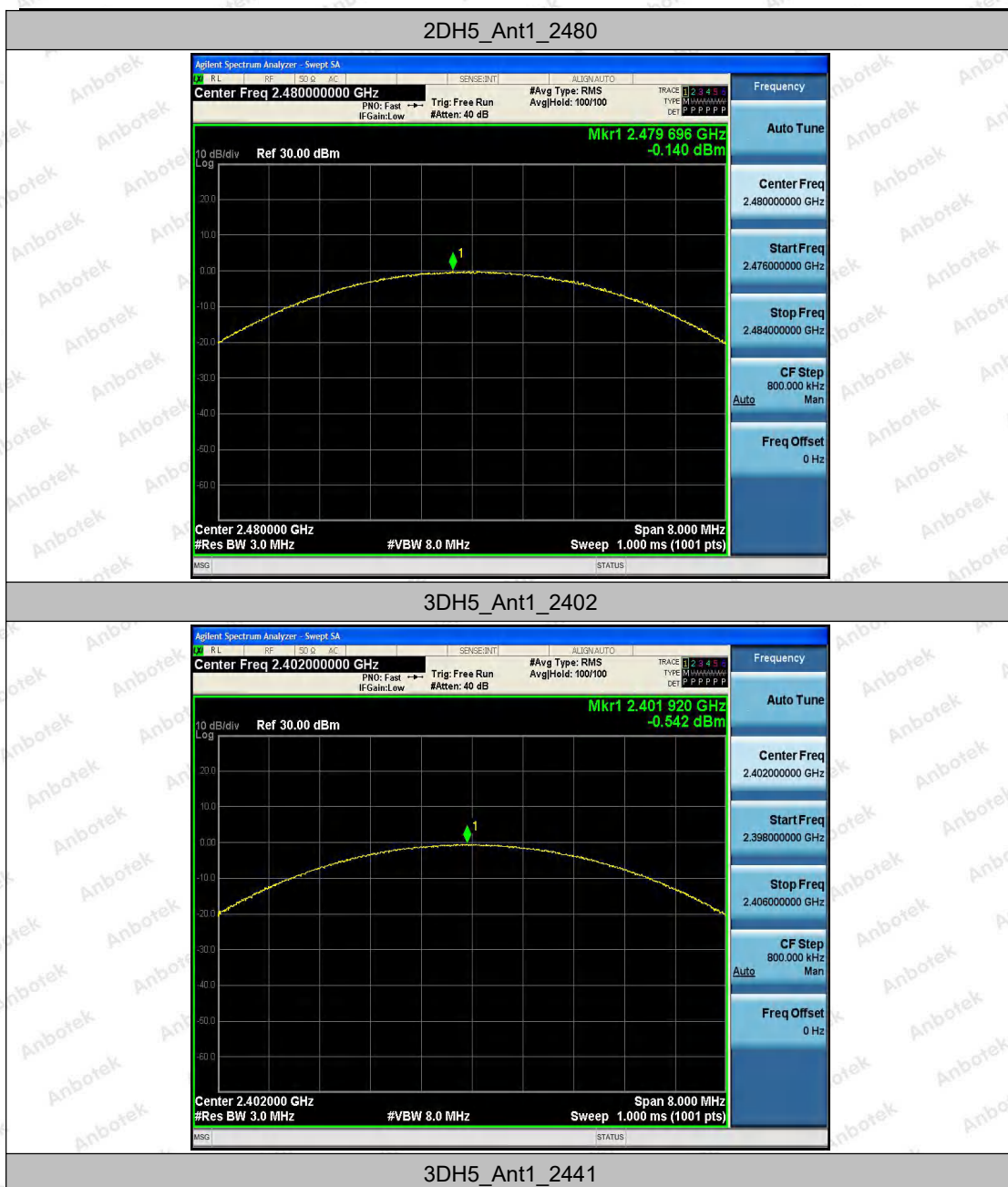


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.948	PASS
2DH5	Ant1	Hop	1.212	≥ 0.898	PASS
3DH5	Ant1	Hop	1.254	≥ 0.894	PASS

Test Graphs

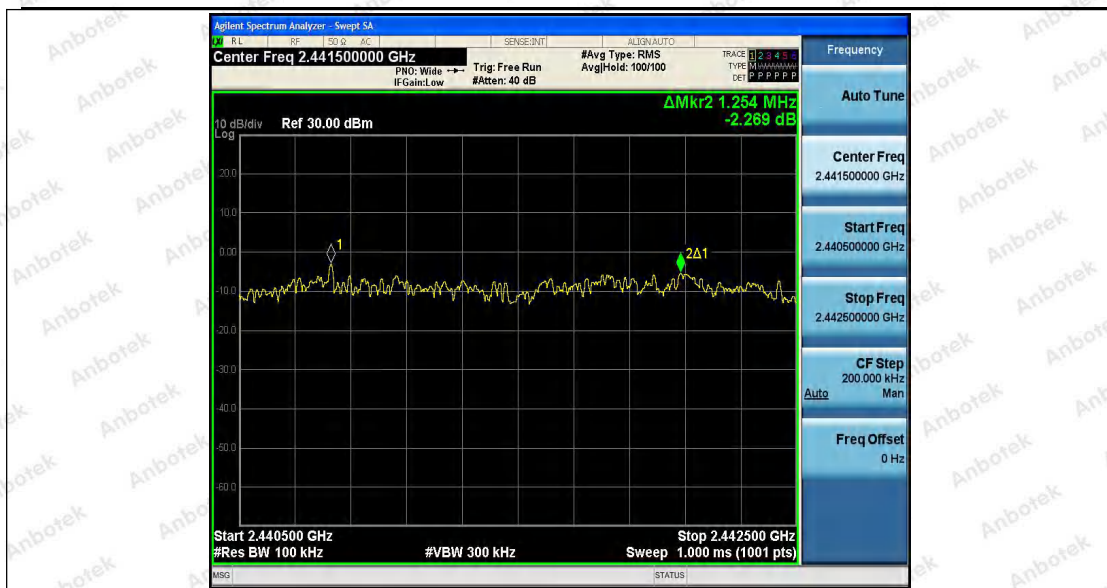


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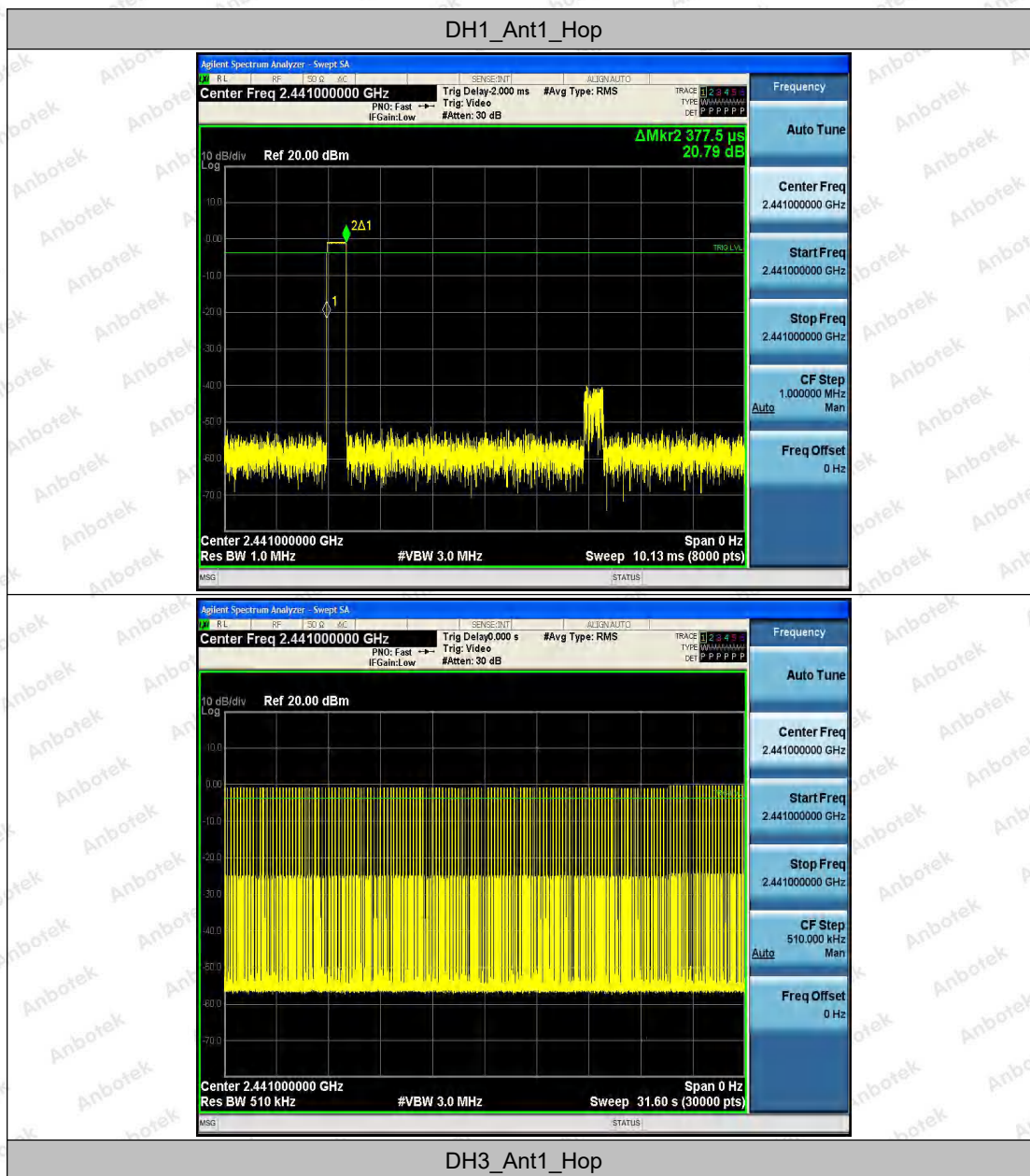
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	105	0.303	≤0.4	PASS

Test Graphs



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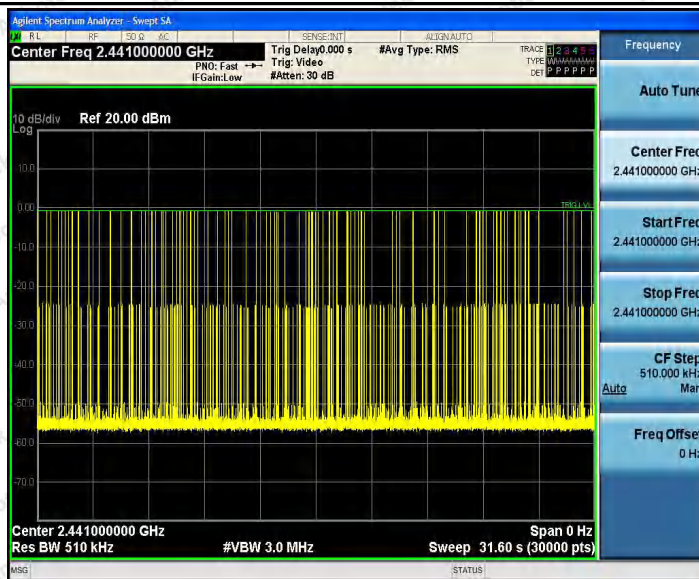
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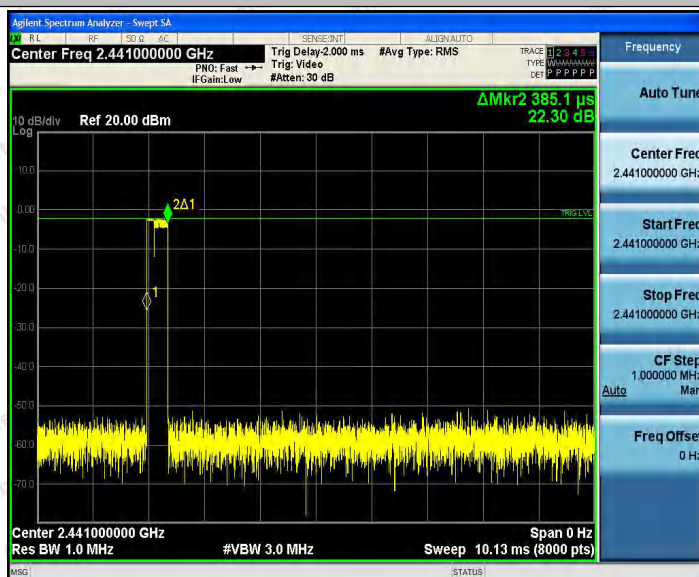
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DH5_Ant1_Hop



2DH1_Ant1_Hop



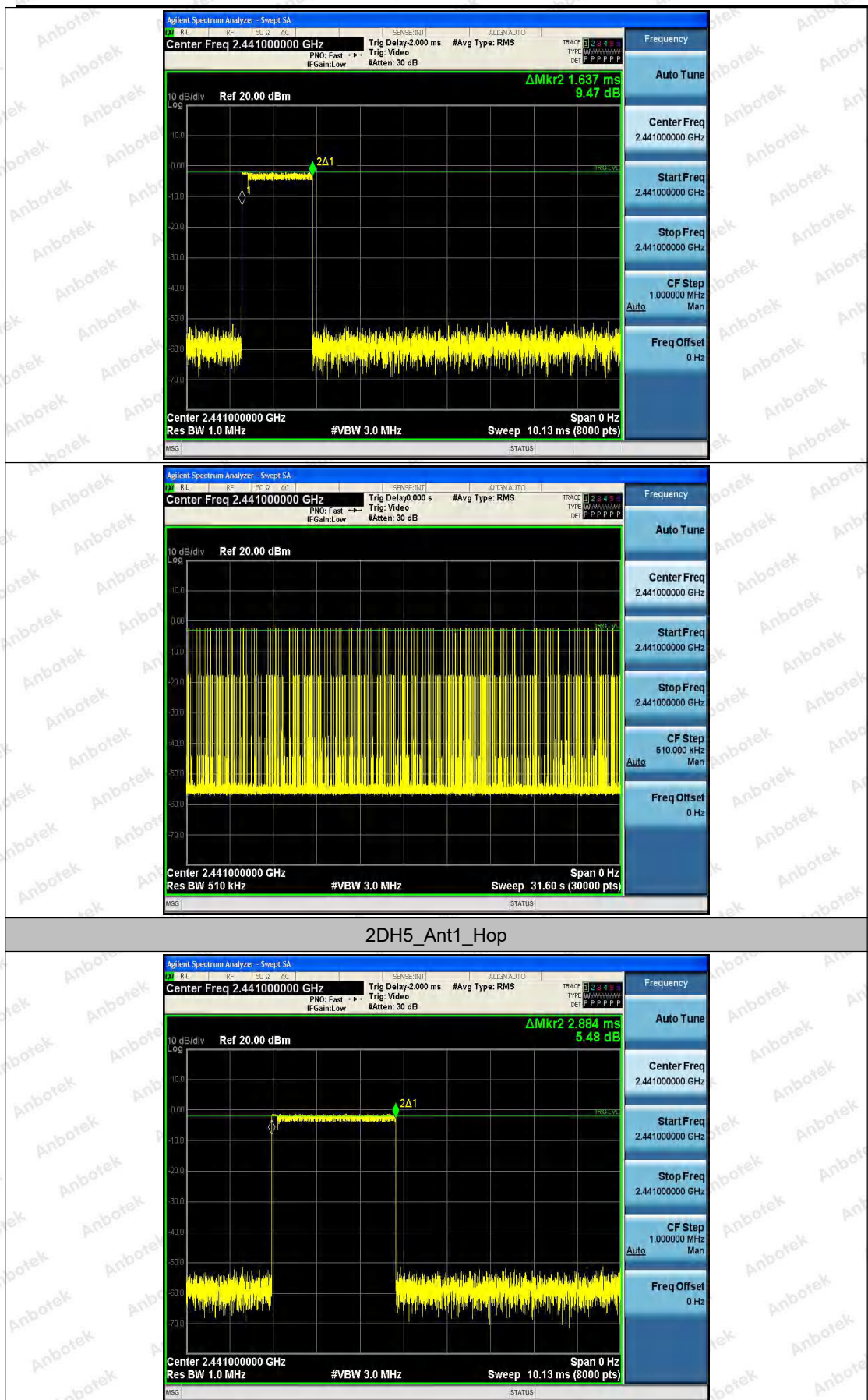
2DH3_Ant1_Hop

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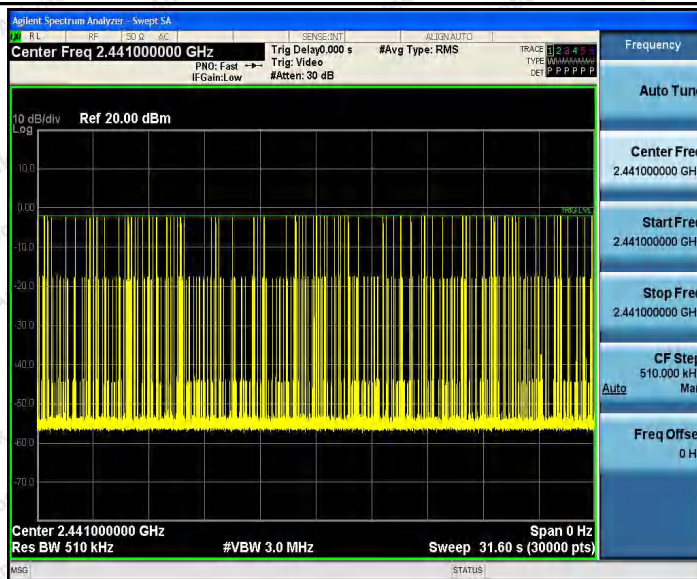
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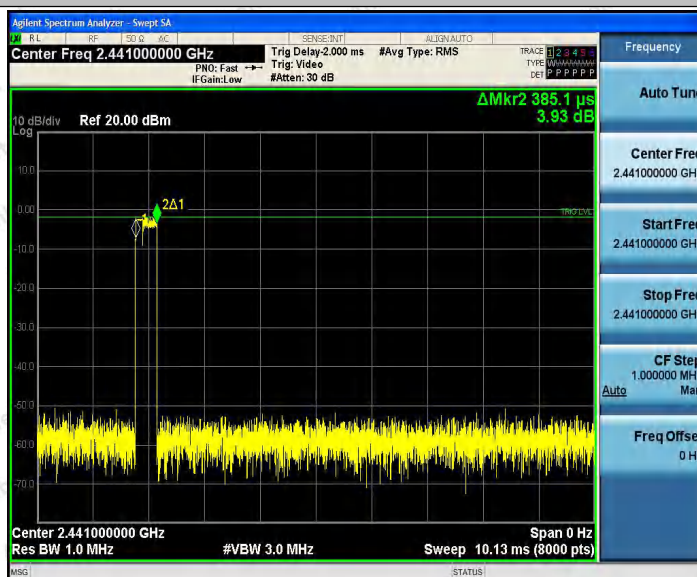
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



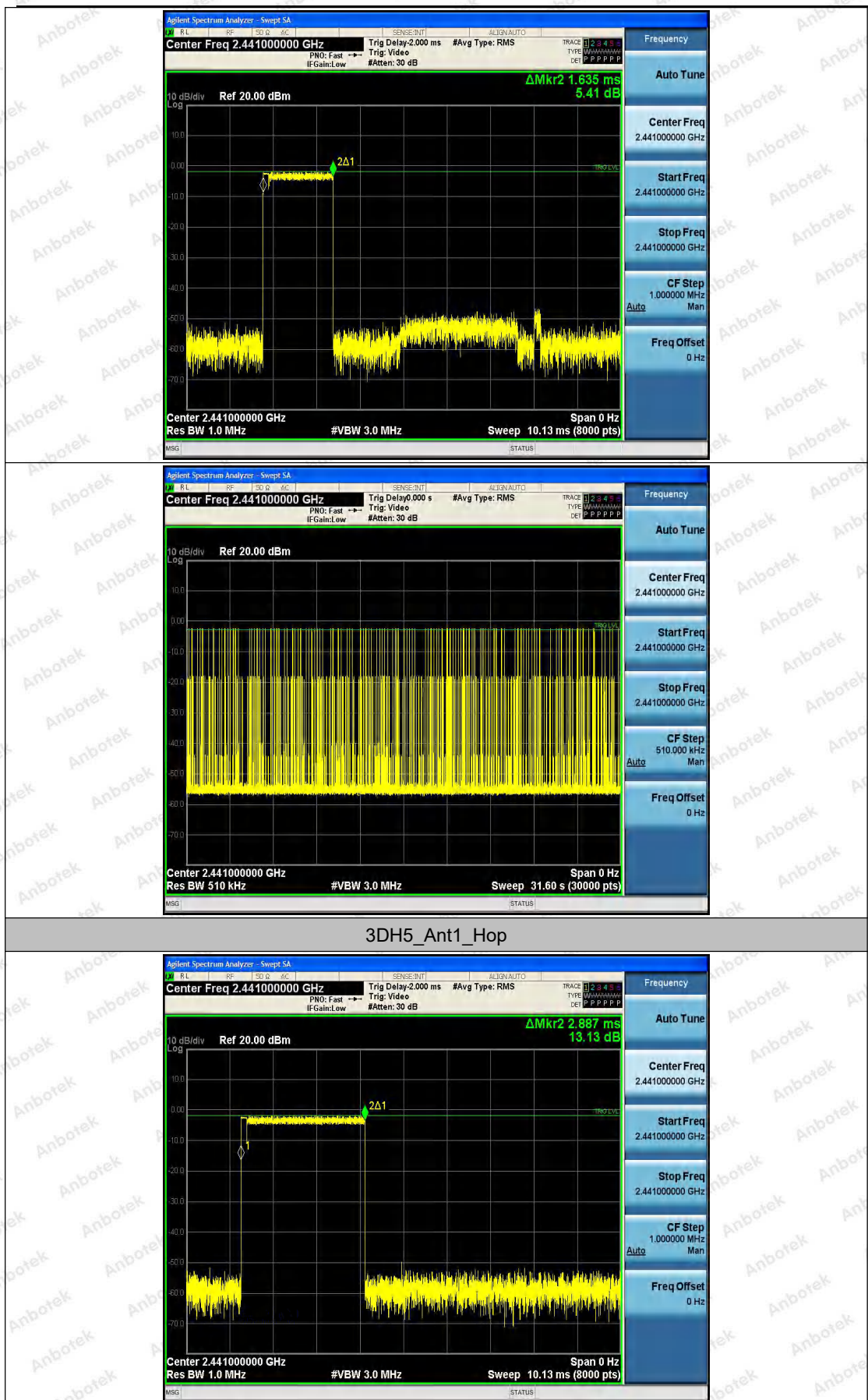
3DH3_Ant1_Hop

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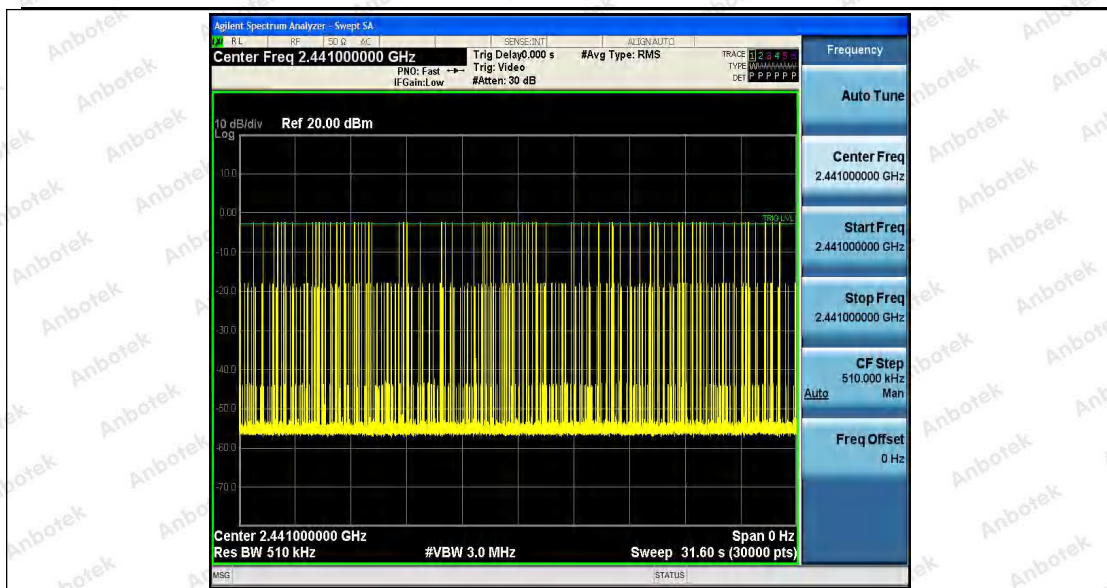
3DH5_Ant1_Hop

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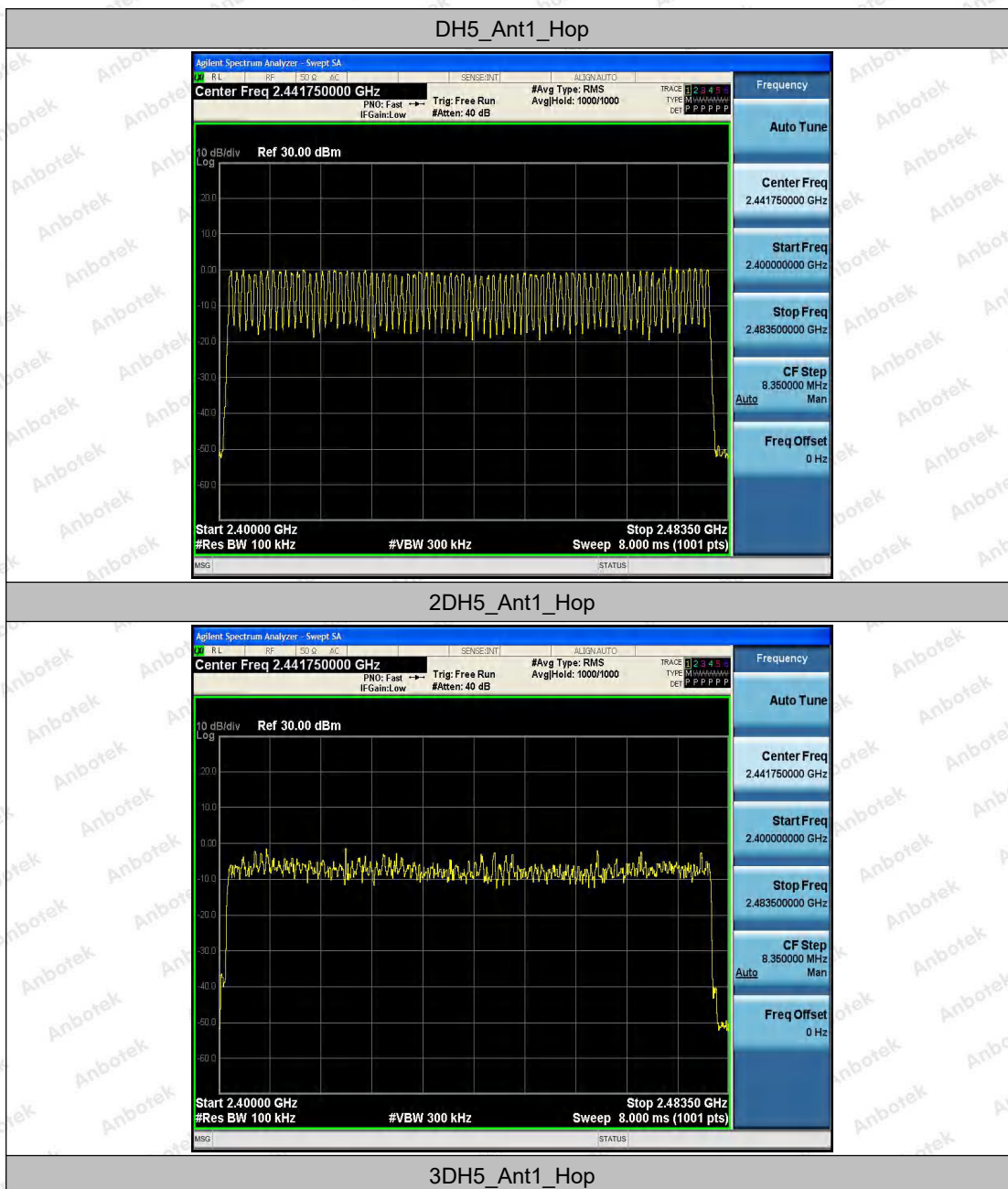
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Appendix F: Number of hopping channels

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

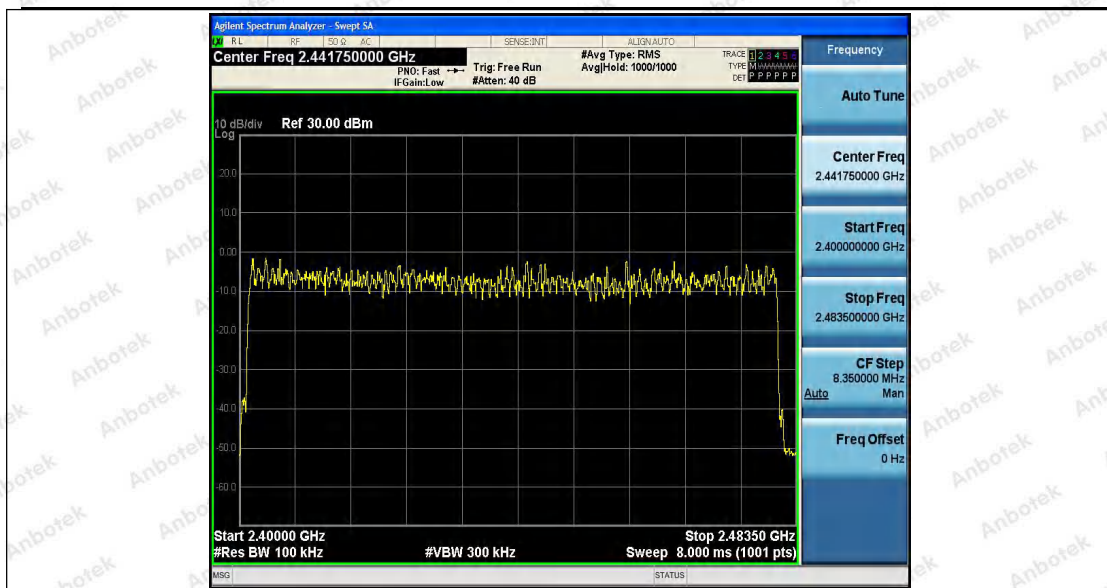


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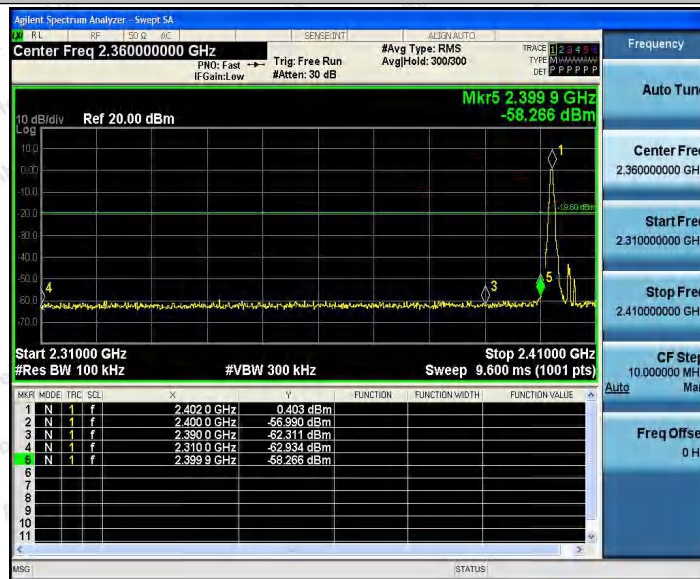
Appendix G: Band edge measurements

Test Result

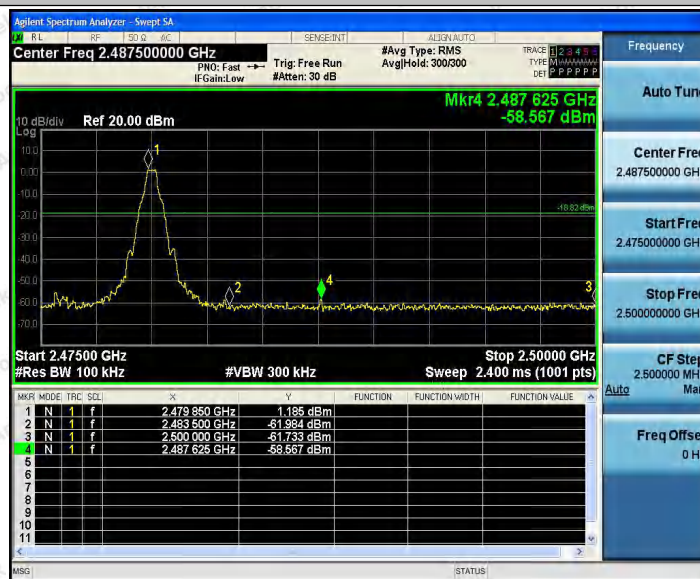
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.40	-58.27	≤-19.6	PASS
		High	2480	1.19	-58.57	≤-18.82	PASS
		Low	Hop	-0.58	-46.68	≤-20.58	PASS
		High	Hop	0.18	-62.59	≤-19.82	PASS
2DH5	Ant1	Low	2402	-1.77	-58.42	≤-21.77	PASS
		High	2480	-1.46	-59.62	≤-21.46	PASS
		Low	Hop	-3.20	-58.27	≤-23.2	PASS
		High	Hop	-1.66	-64.03	≤-21.66	PASS
3DH5	Ant1	Low	2402	-2.26	-57.08	≤-22.26	PASS
		High	2480	-1.06	-59.38	≤-21.06	PASS
		Low	Hop	-4.35	-60.07	≤-24.35	PASS
		High	Hop	-3.71	-61.86	≤-23.71	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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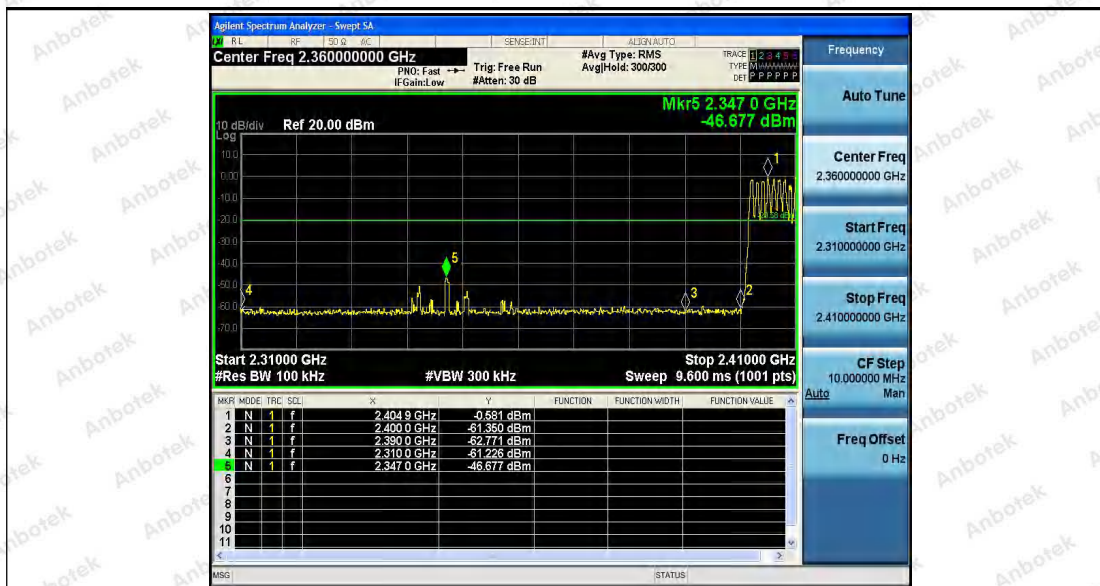
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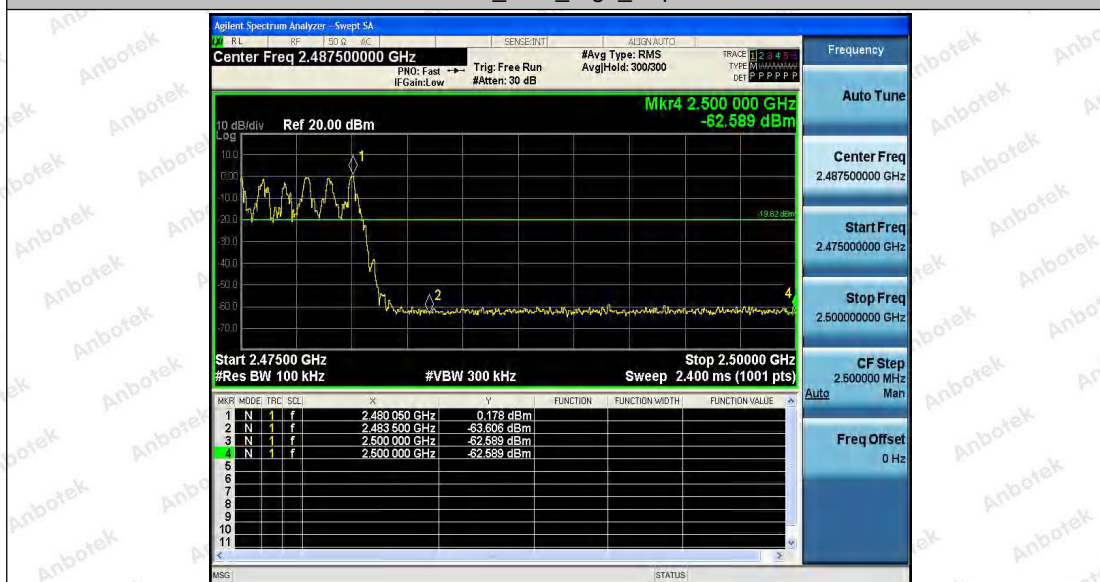
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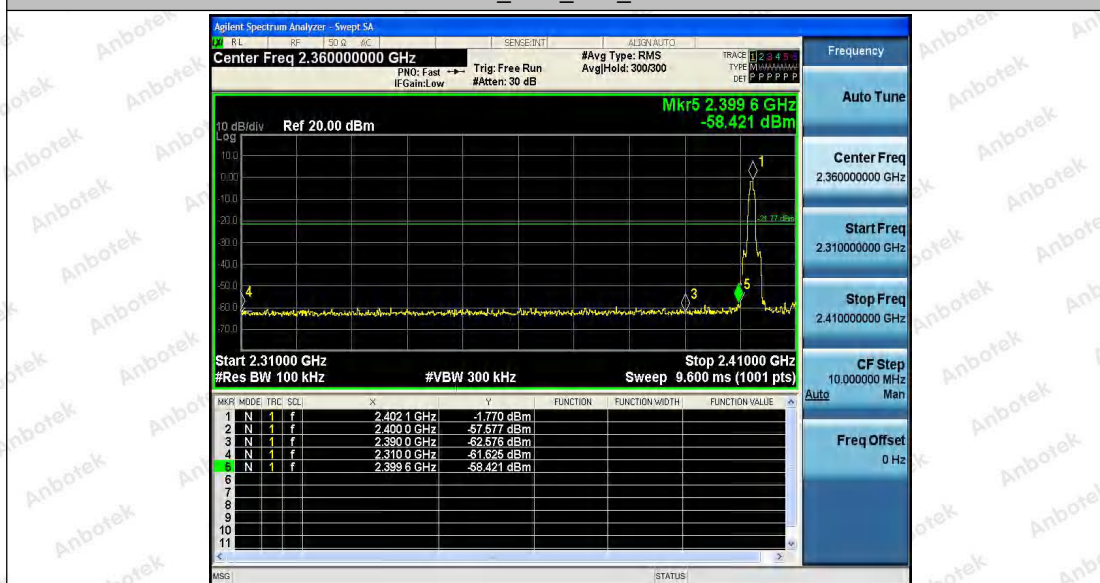
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



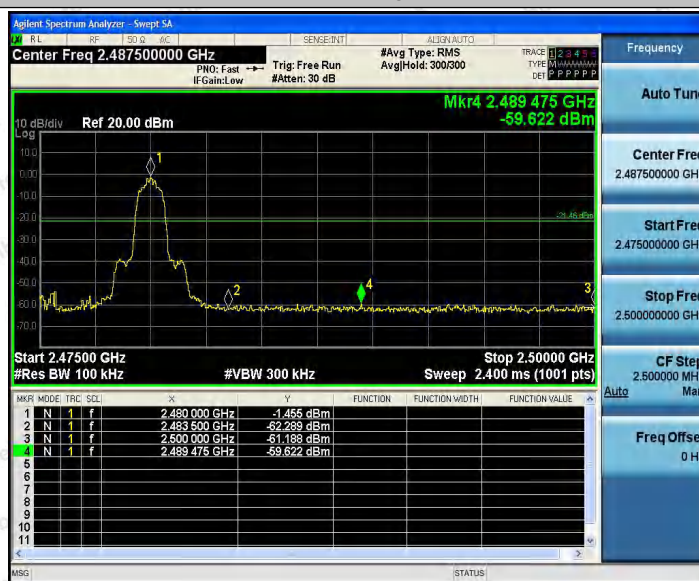
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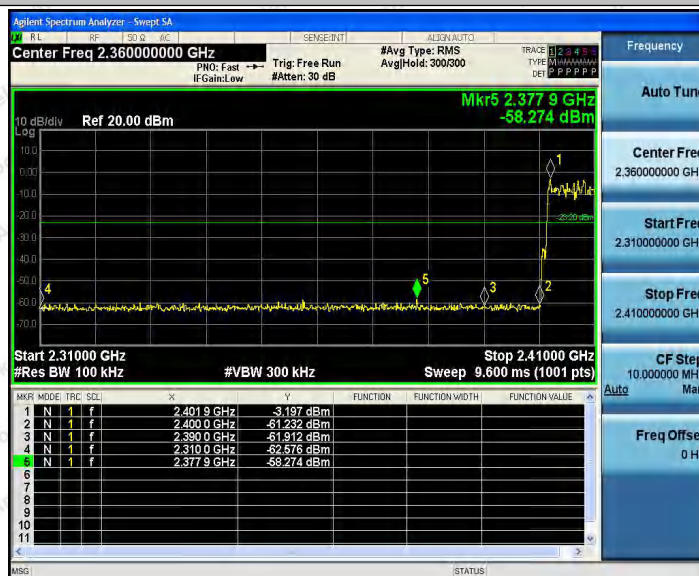
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



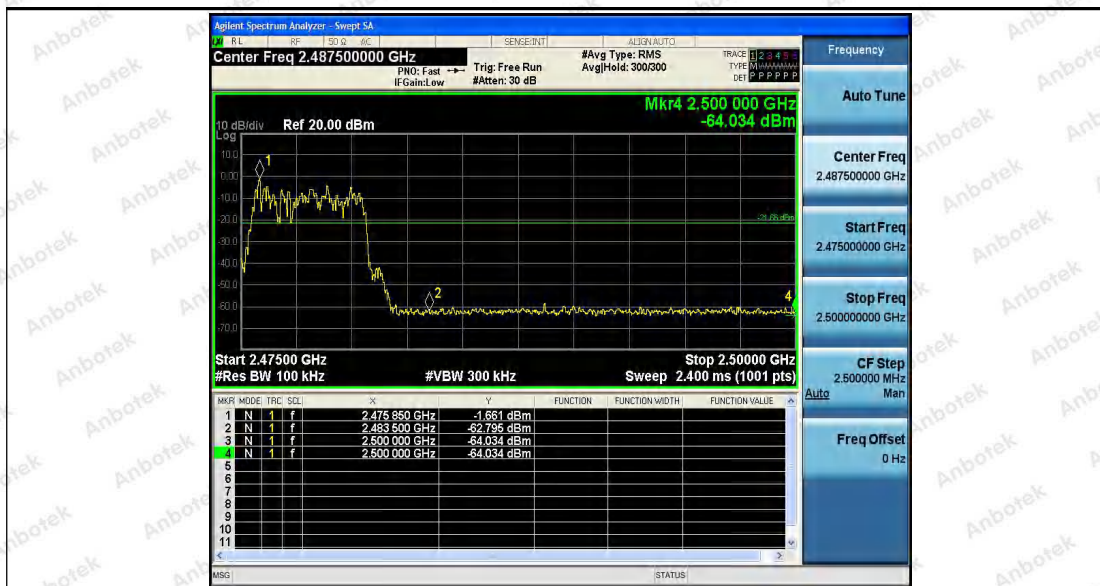
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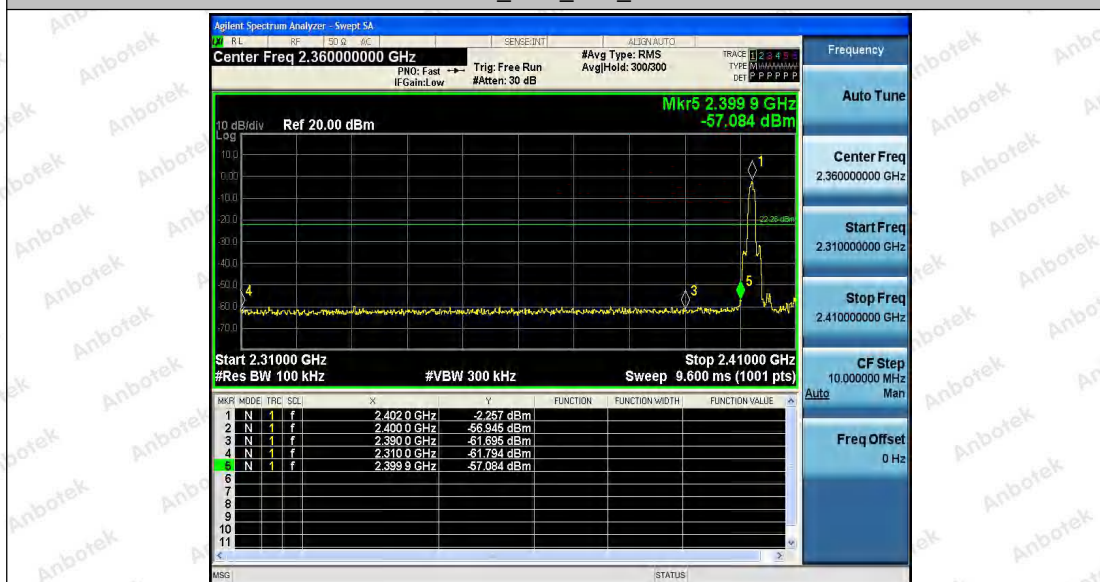
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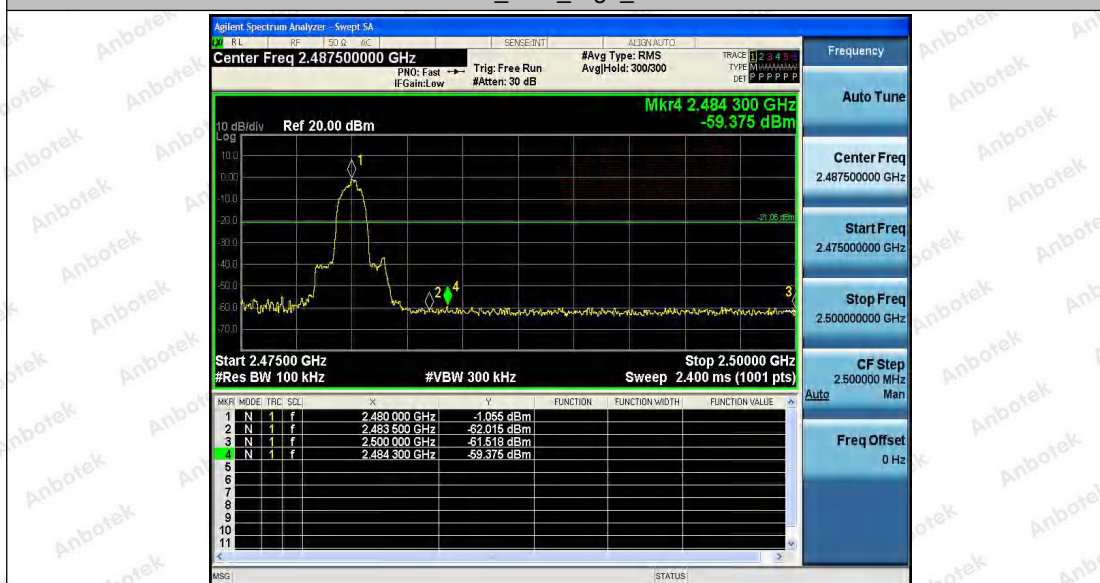
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

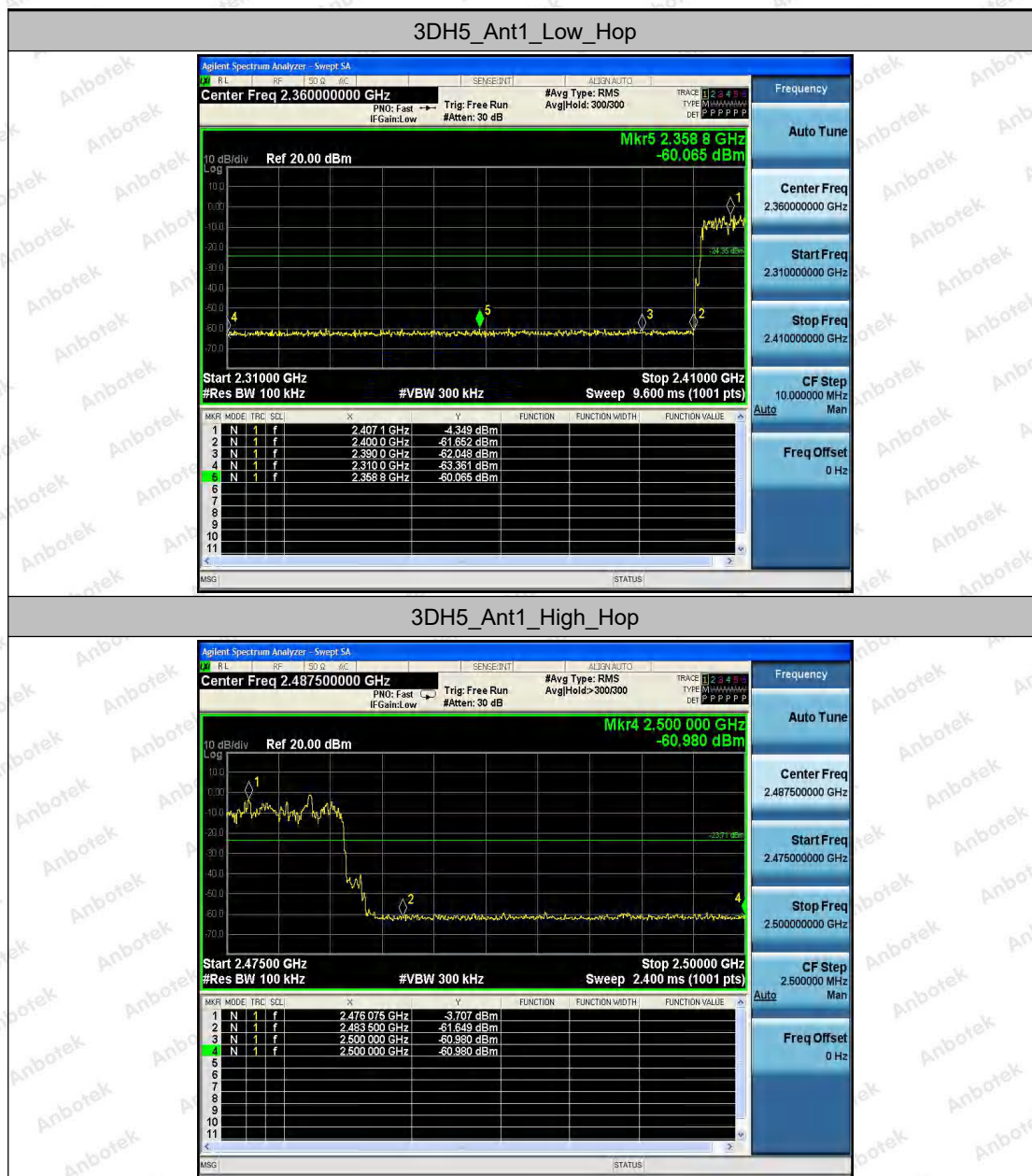


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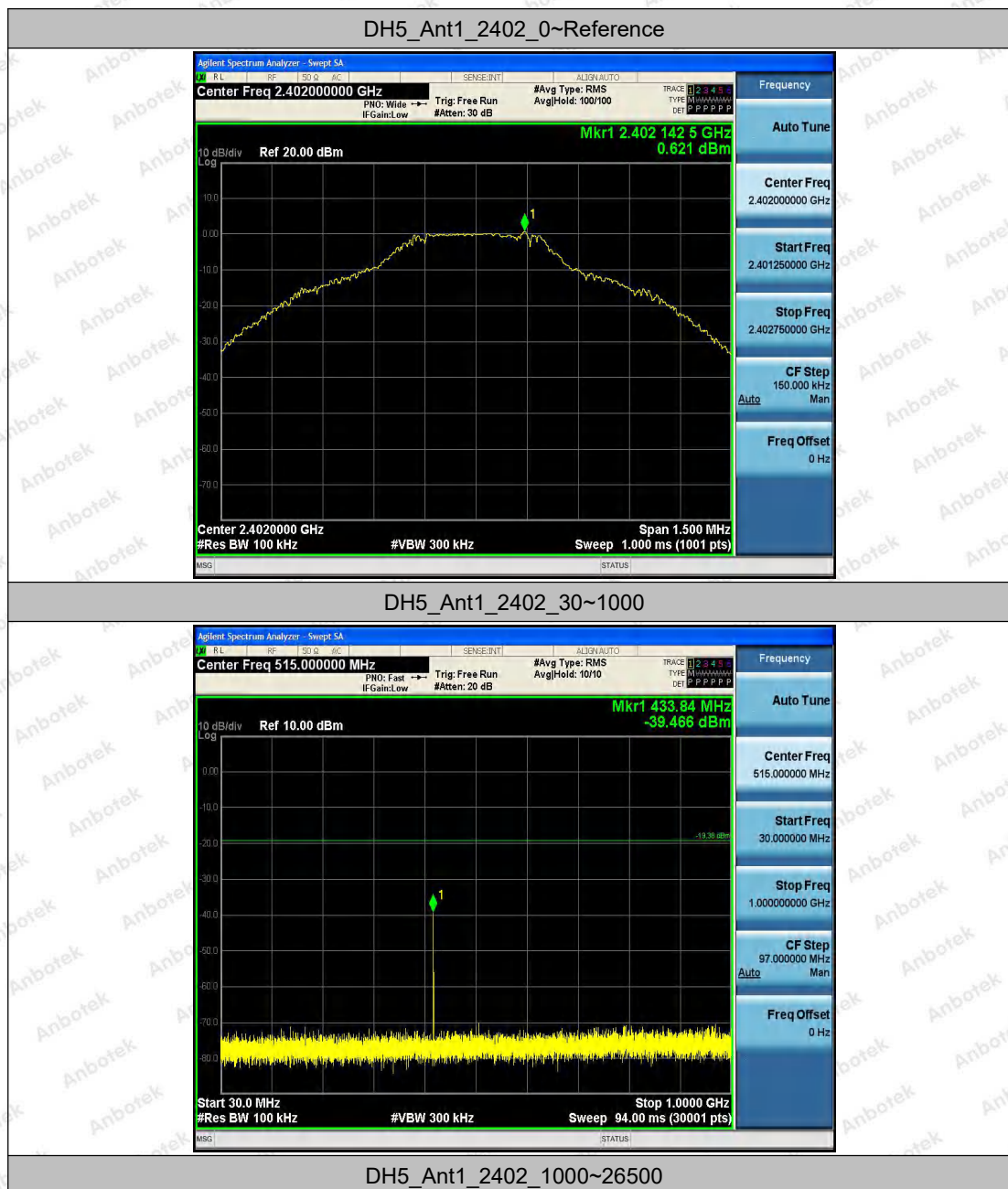
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-39.47	≤-19.38	PASS
			1000~26500	0.62	-40.67	≤-19.38	PASS
		2441	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-59.55	≤-20.77	PASS
			1000~26500	-0.77	-45.36	≤-20.77	PASS
		2480	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-69.94	≤-19.35	PASS
			1000~26500	0.65	-49.92	≤-19.35	PASS
2DH5	Ant1	2402	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-69.81	≤-21.93	PASS
			1000~26500	-1.93	-47.96	≤-21.93	PASS
		2441	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-69.49	≤-22.67	PASS
			1000~26500	-2.67	-50.65	≤-22.67	PASS
		2480	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-70.19	≤-22.33	PASS
			1000~26500	-2.33	-52.47	≤-22.33	PASS
3DH5	Ant1	2402	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-70.3	≤-21.51	PASS
			1000~26500	-1.51	-50.96	≤-21.51	PASS
		2441	Reference	-3.13	-3.13	---	PASS
			30~1000	-3.13	-70.73	≤-23.13	PASS
			1000~26500	-3.13	-51.67	≤-23.13	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-69.99	≤-21.16	PASS
			1000~26500	-1.16	-55.47	≤-21.16	PASS

Test Graphs



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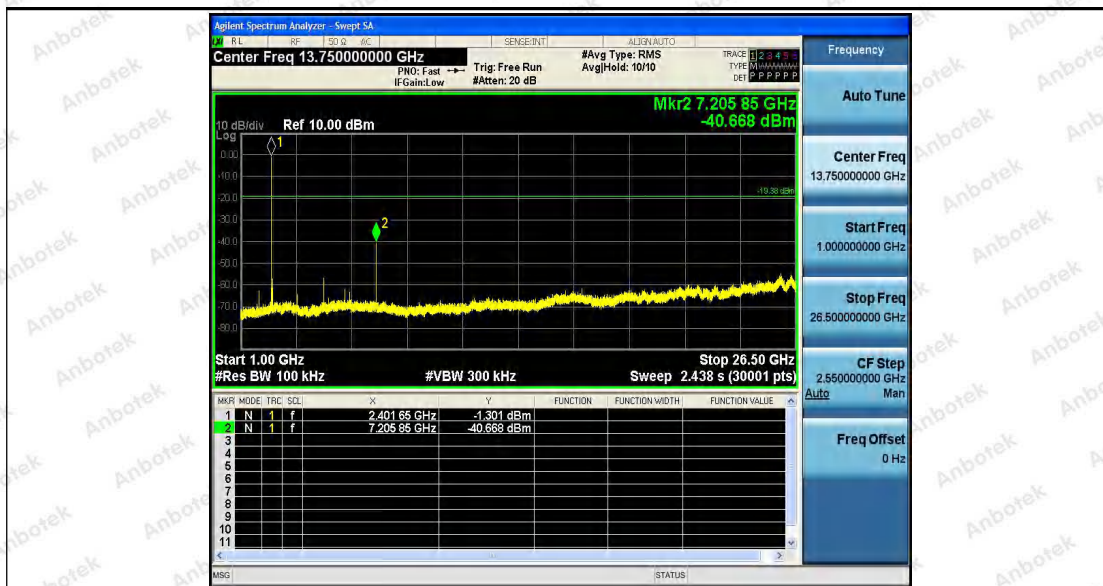
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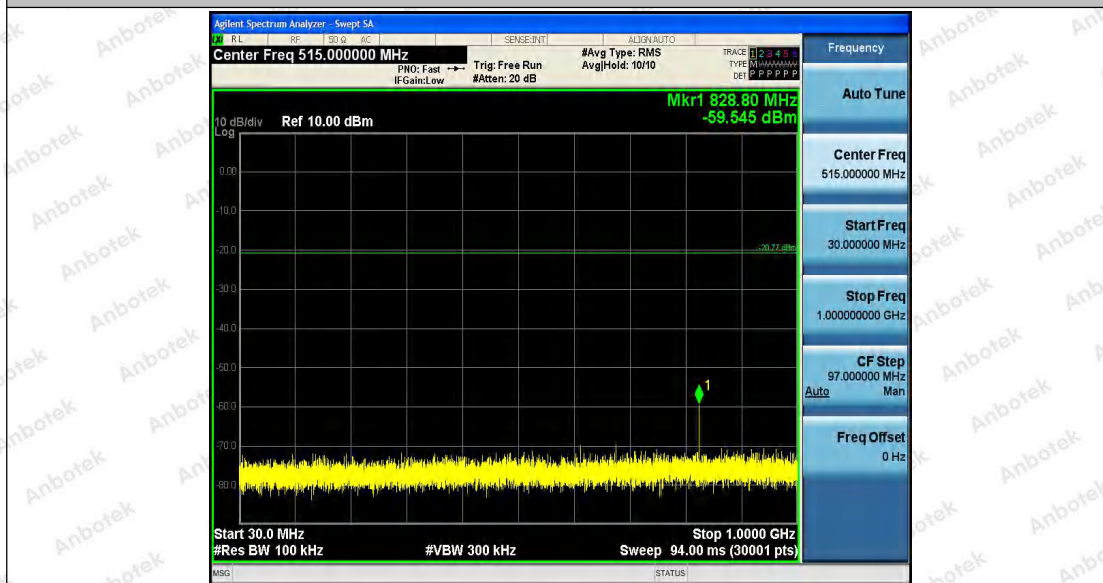
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



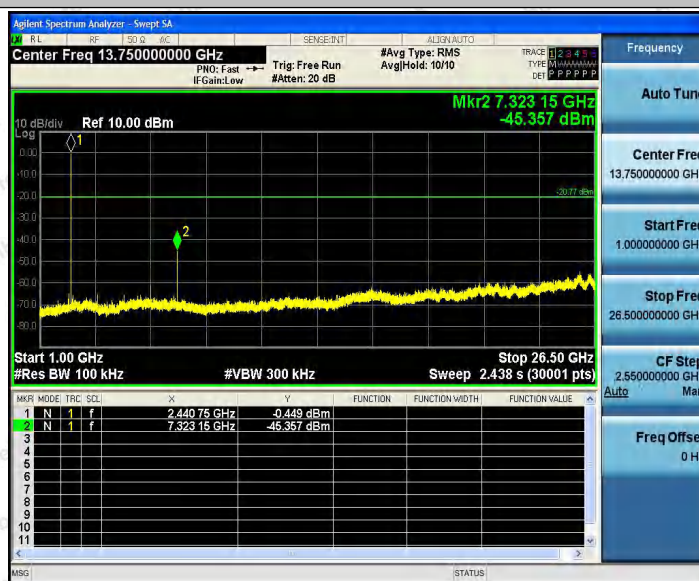
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



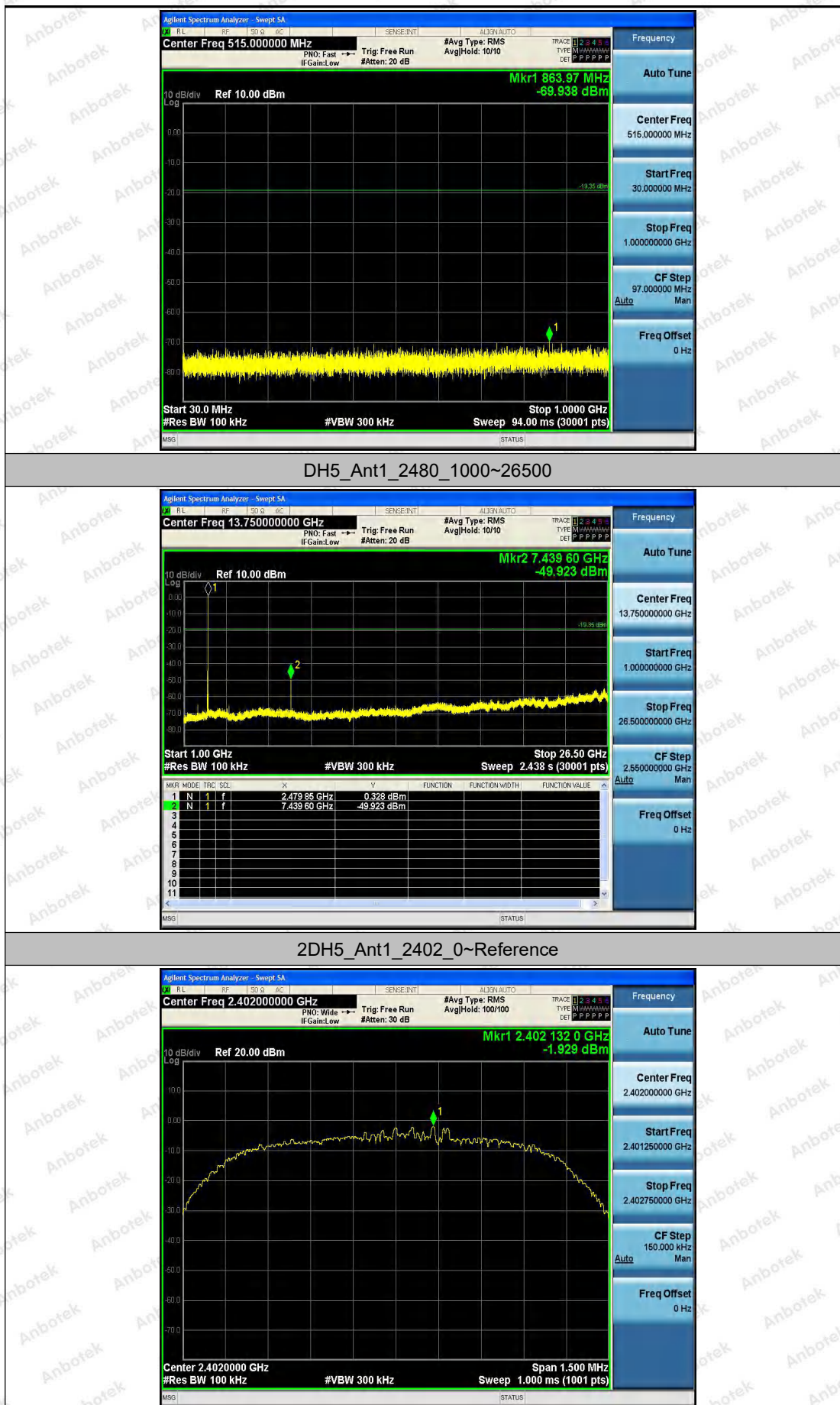
DH5_Ant1_2480_30~1000

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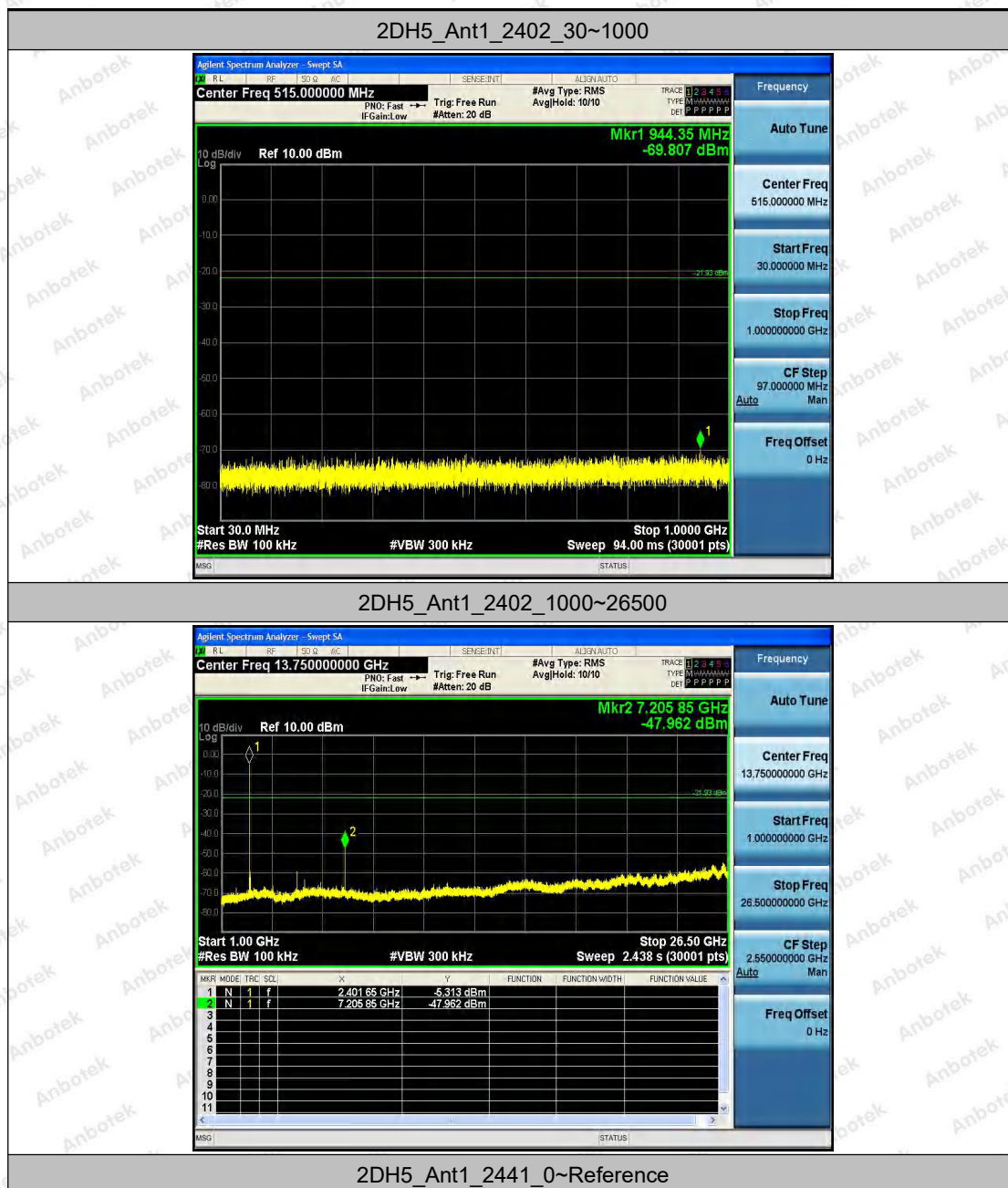


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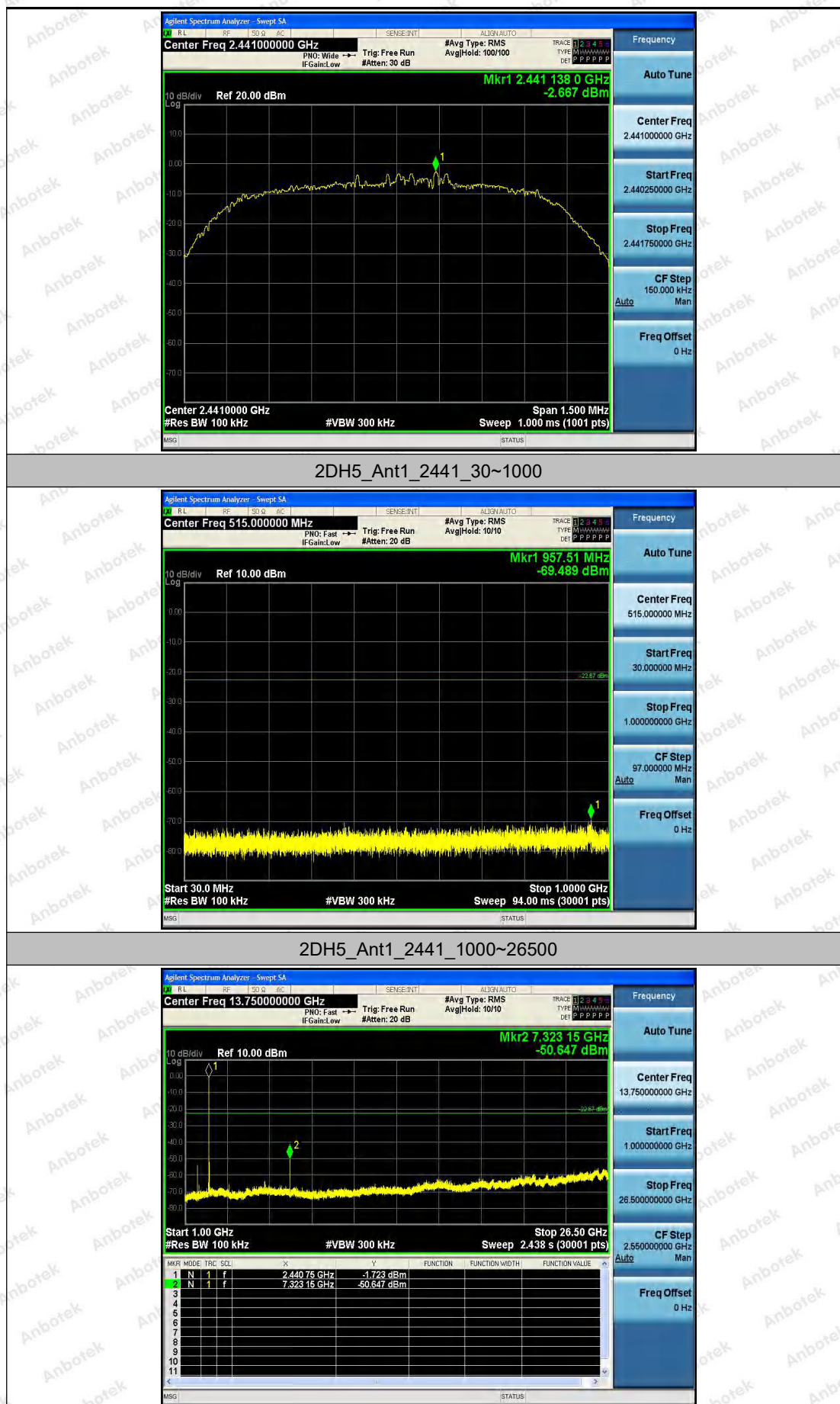


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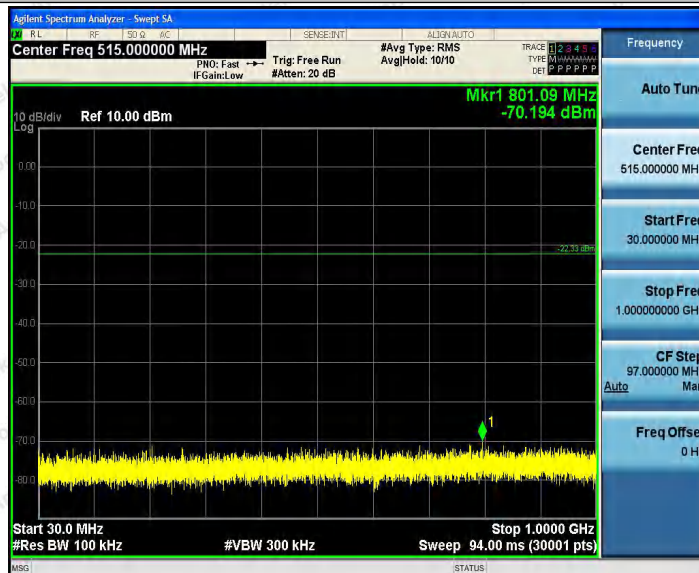
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



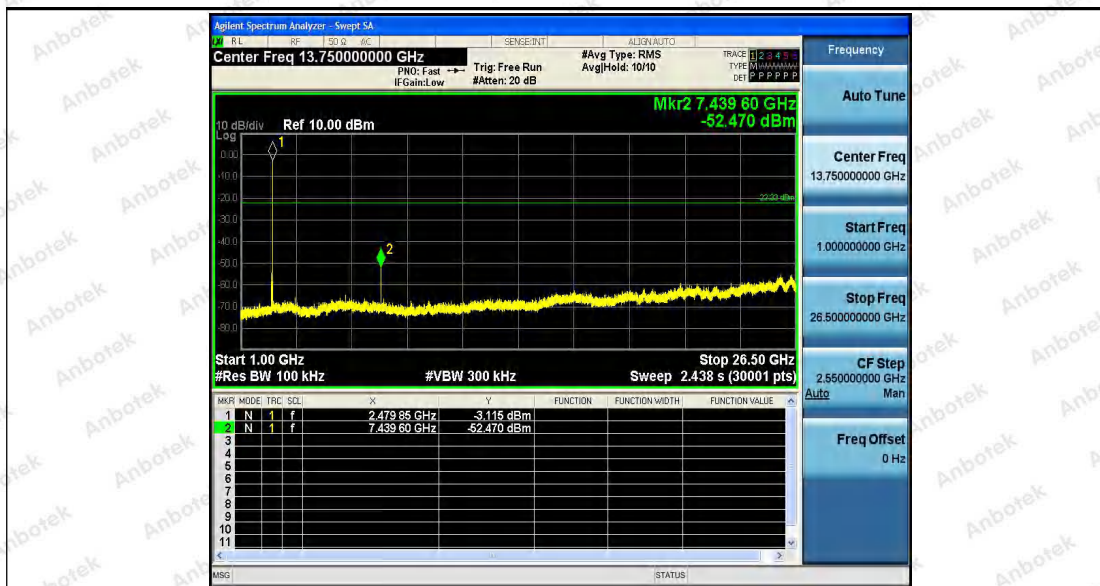
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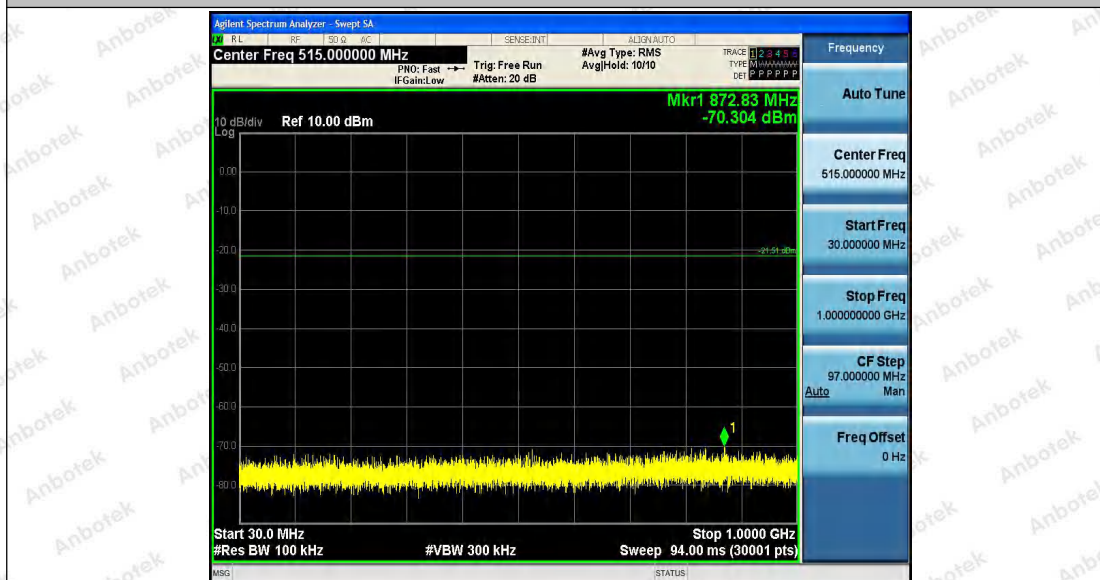
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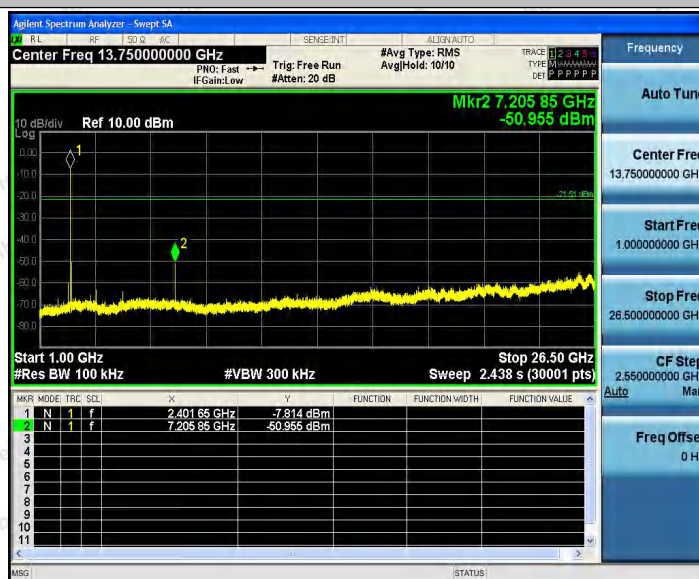
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3DH5_Ant1_2402_1000~26500



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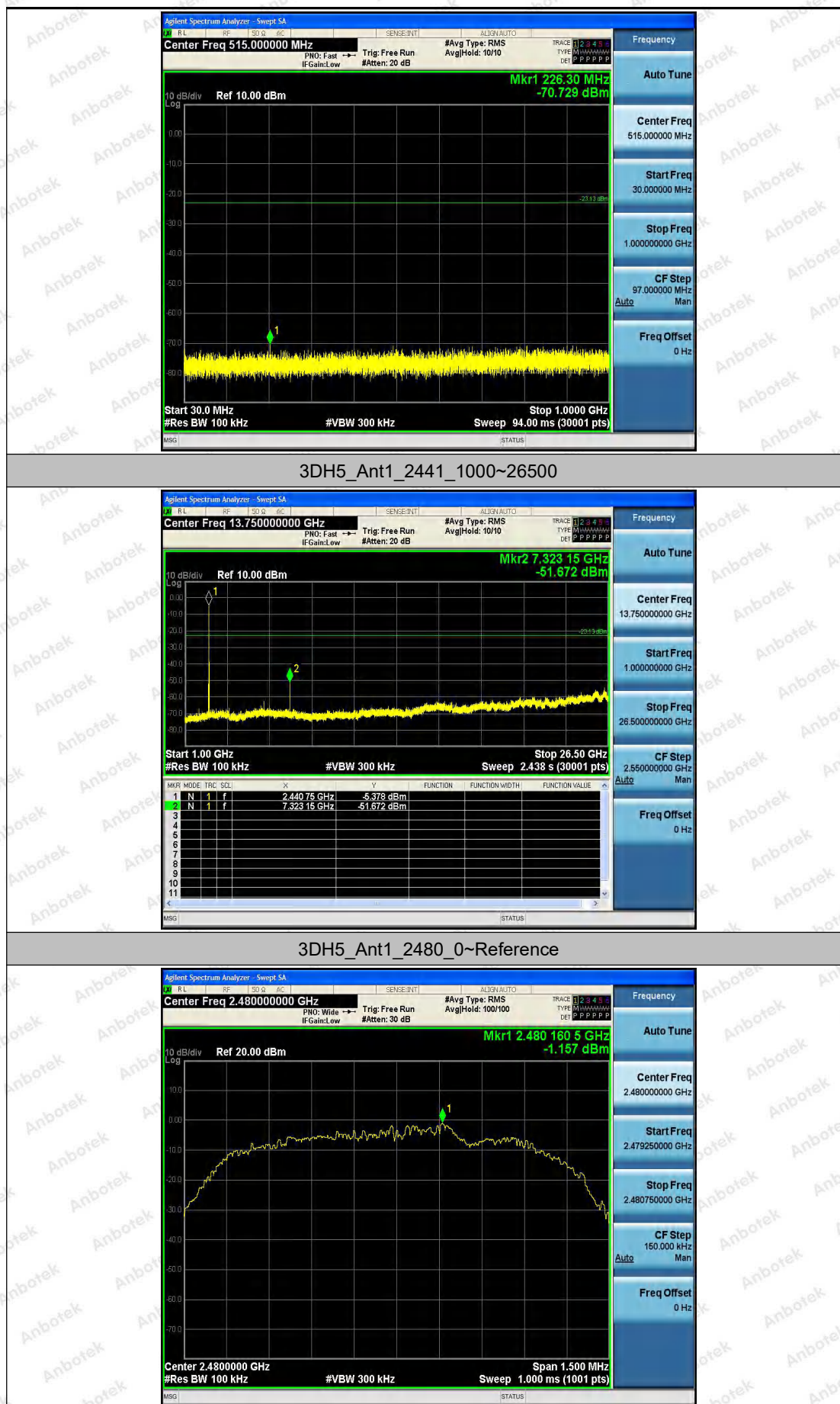
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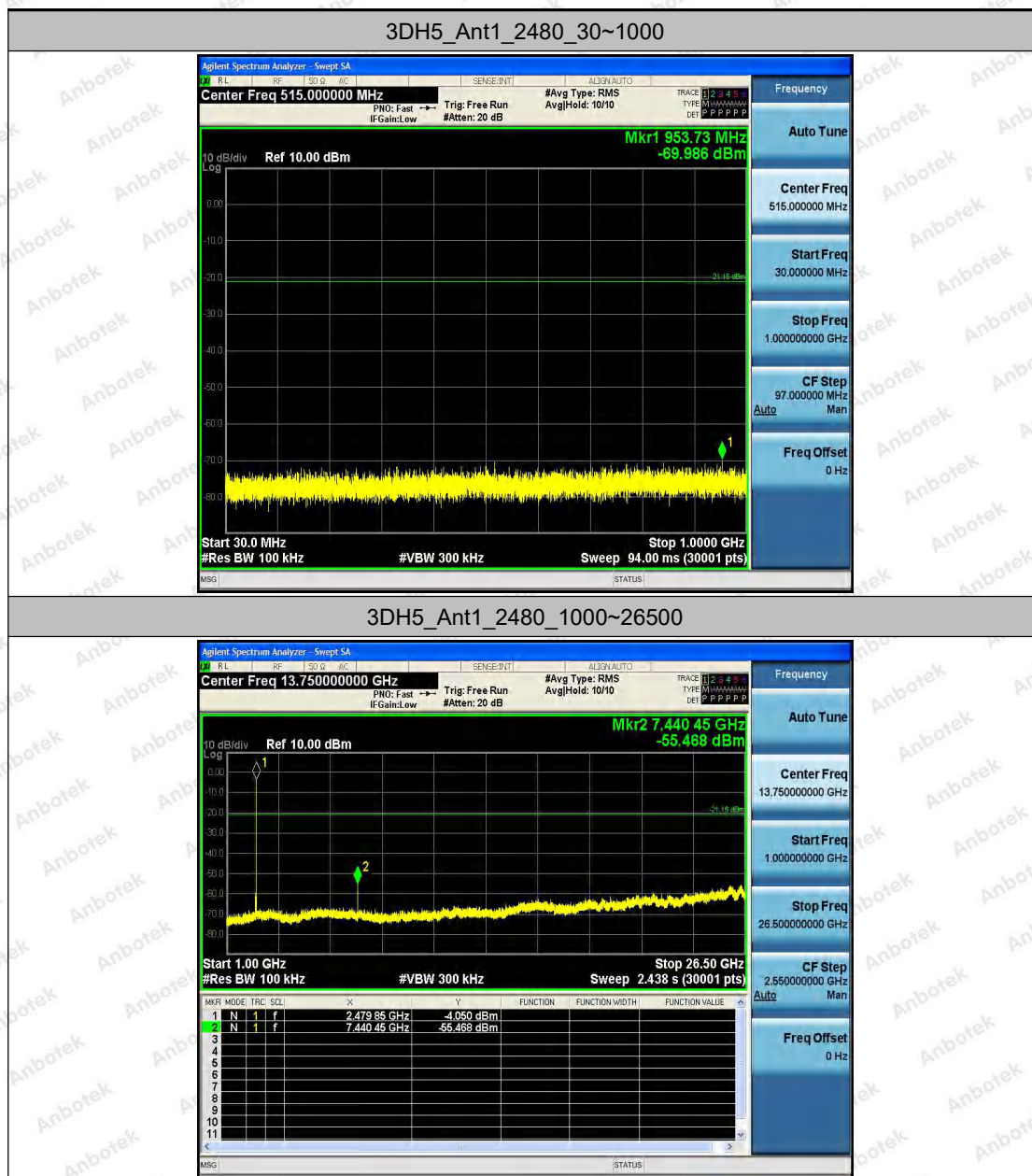


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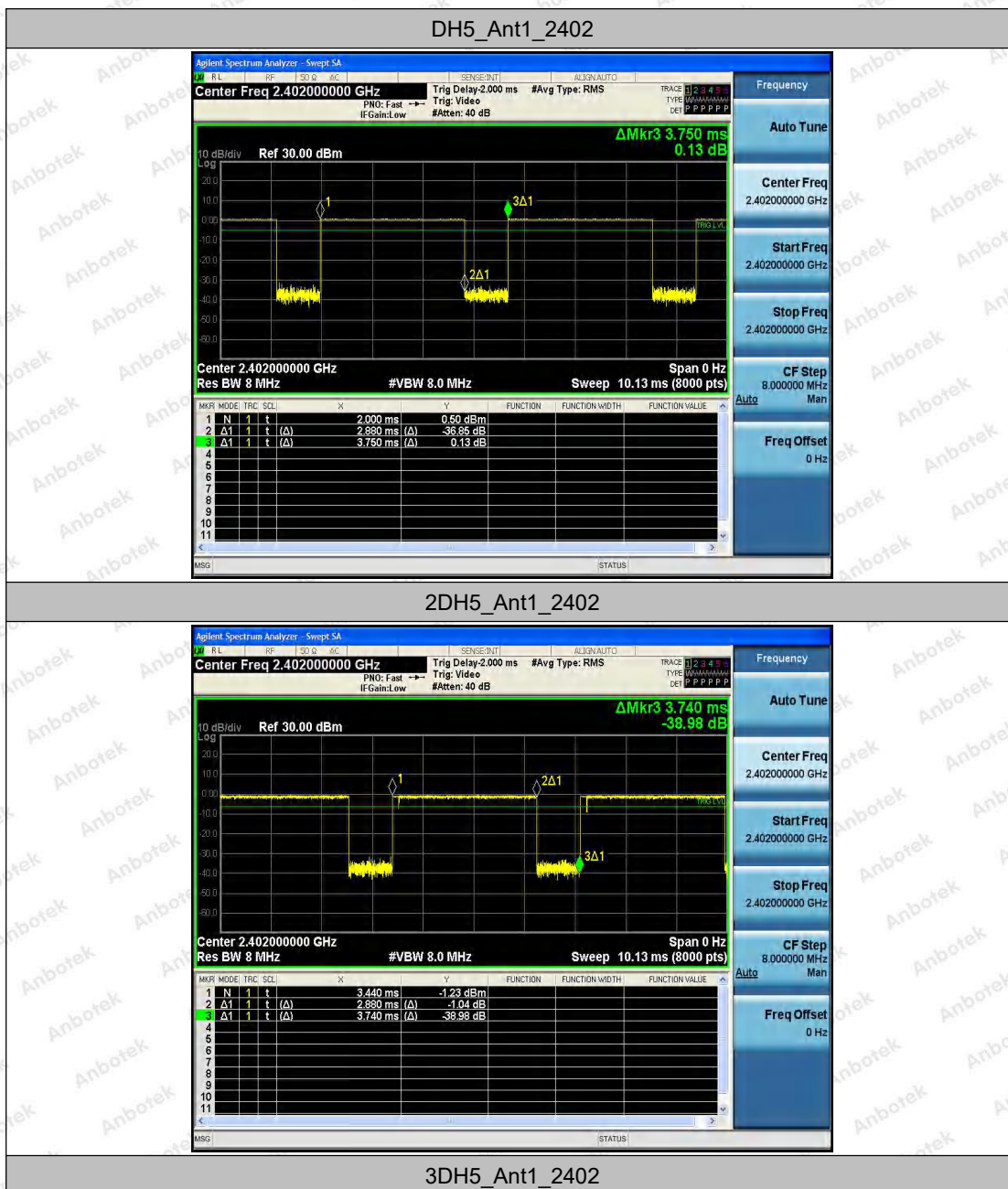
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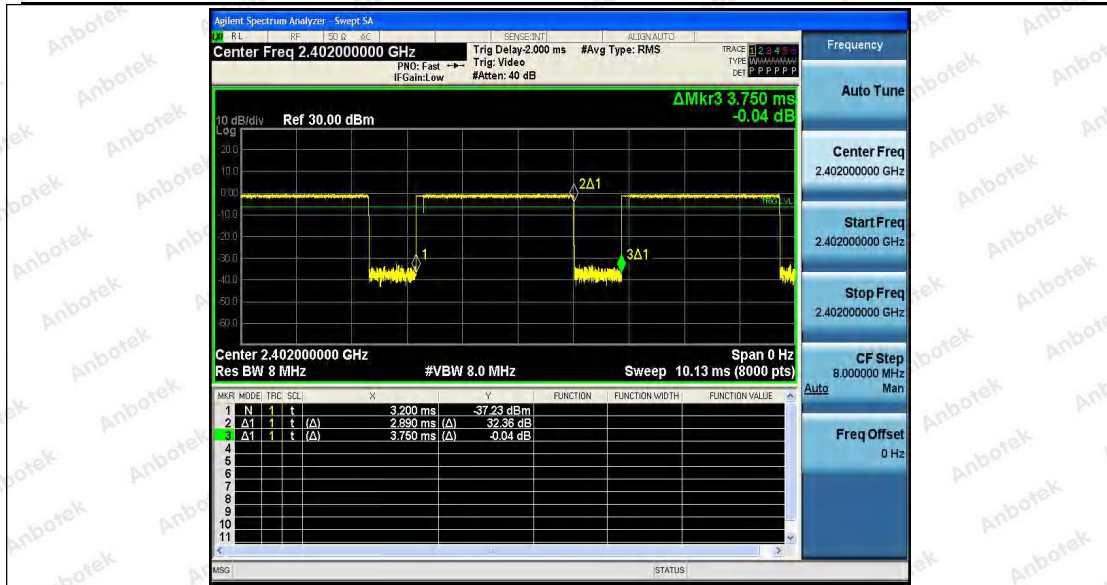
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.74	0.7701	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---