

Appendix Test Data

Report No.:	18220WC20063101	Test Sample No.:	1-2-2
Start Test Date:	2022.3.29	Finish Test Date:	2022.4.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.7°C	Relative Humidity:	52 %
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	2401.541	2402.489	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.326	2401.337	2402.663	---	PASS
		2441	1.314	2440.340	2441.654	---	PASS
		2480	1.266	2479.367	2480.633	---	PASS
3DH5	Ant1	2402	1.299	2401.349	2402.648	---	PASS
		2441	1.266	2440.358	2441.624	---	PASS
		2480	1.332	2479.331	2480.663	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_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	0.89016	2401.559	2402.449	---	PASS
		2441	0.89840	2440.555	2441.453	---	PASS
		2480	0.89089	2479.557	2480.448	---	PASS
2DH5	Ant1	2402	1.1982	2401.403	2402.601	---	PASS
		2441	1.1924	2440.405	2441.597	---	PASS
		2480	1.1909	2479.405	2480.596	---	PASS
3DH5	Ant1	2402	1.2113	2401.387	2402.598	---	PASS
		2441	1.2006	2440.396	2441.597	---	PASS
		2480	1.2083	2479.389	2480.597	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

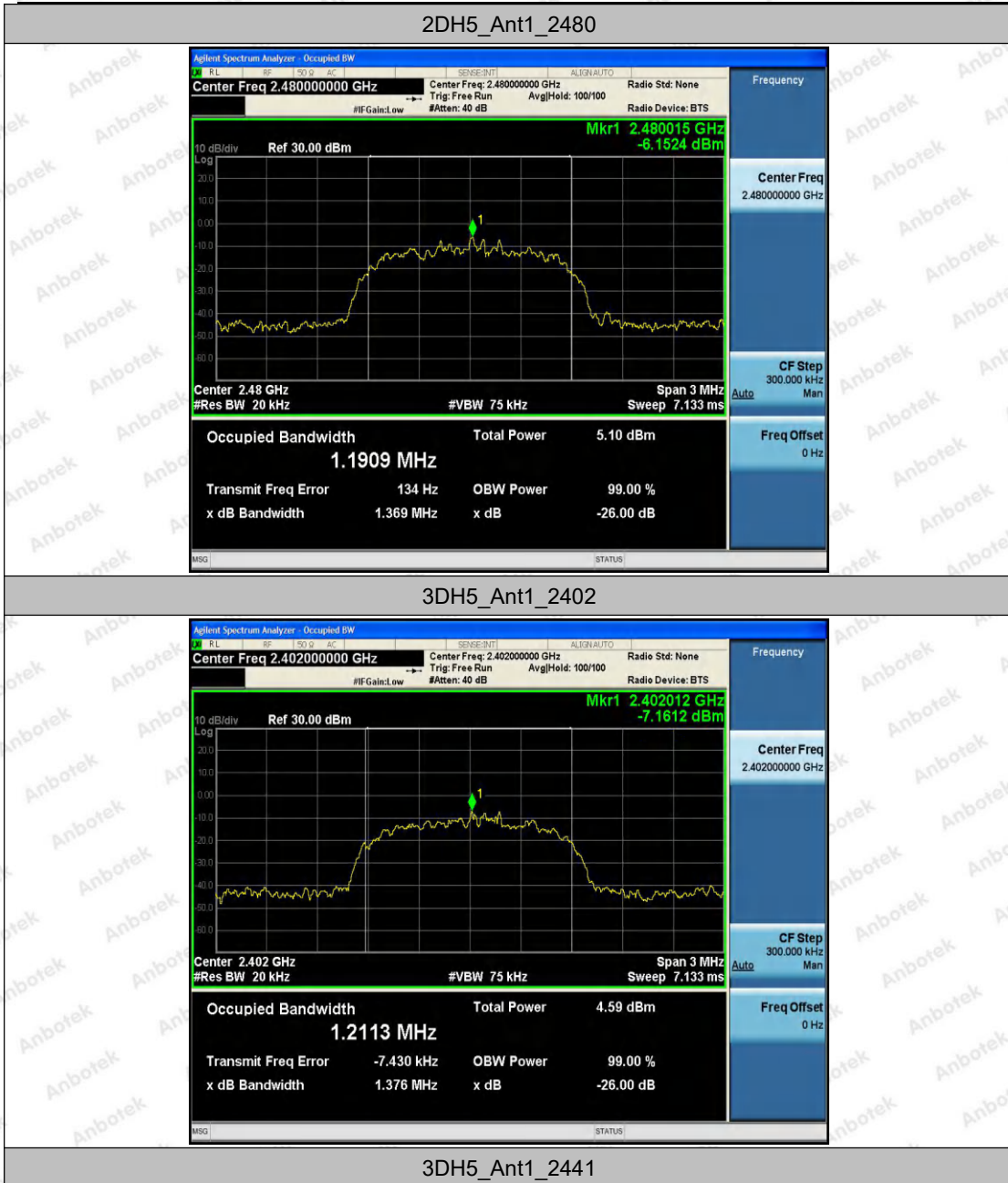


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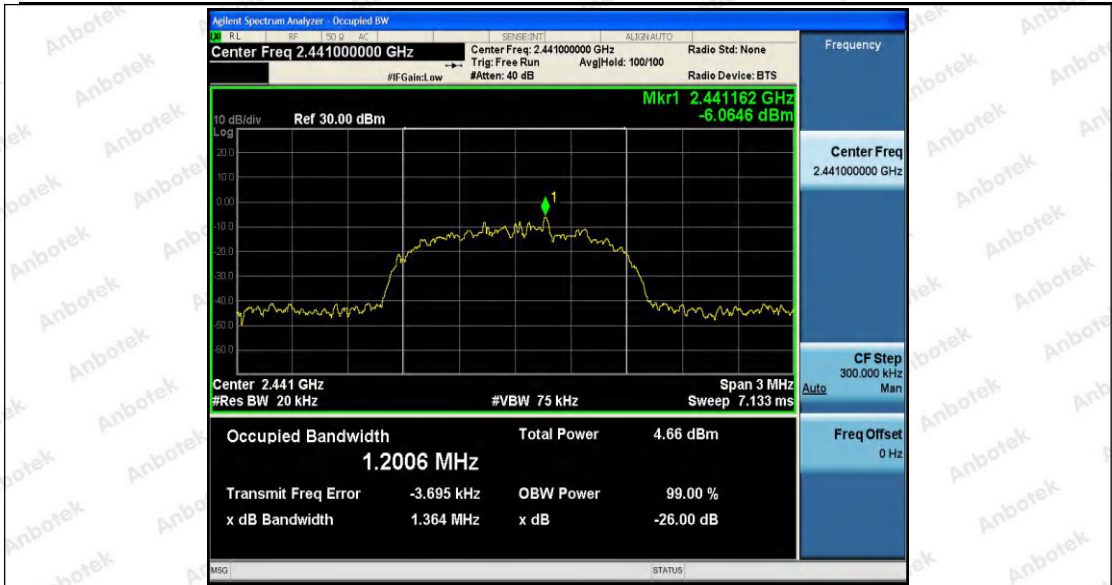
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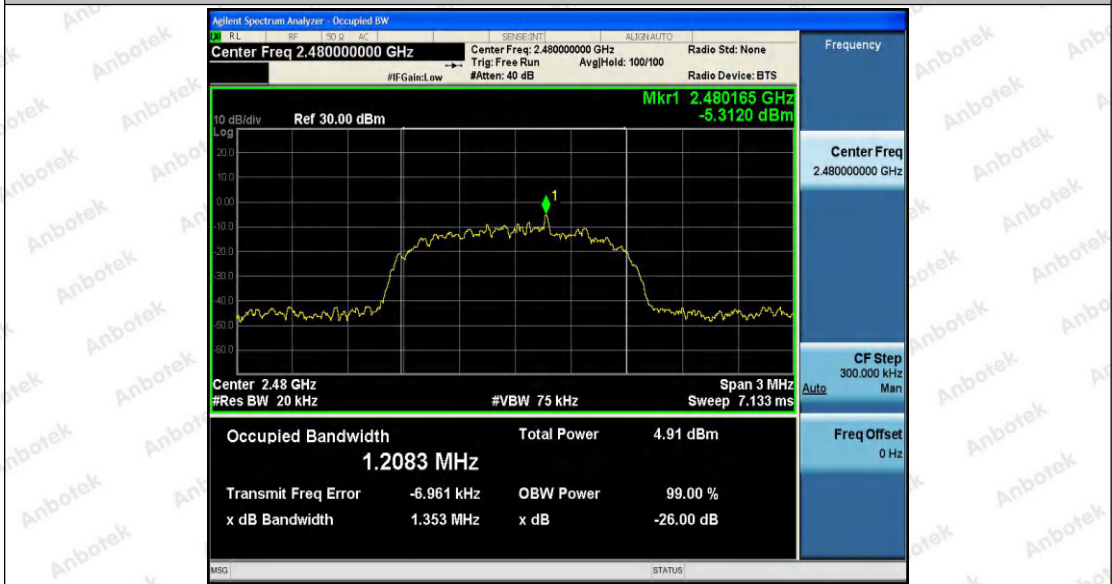
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3DH5_Ant1_2480



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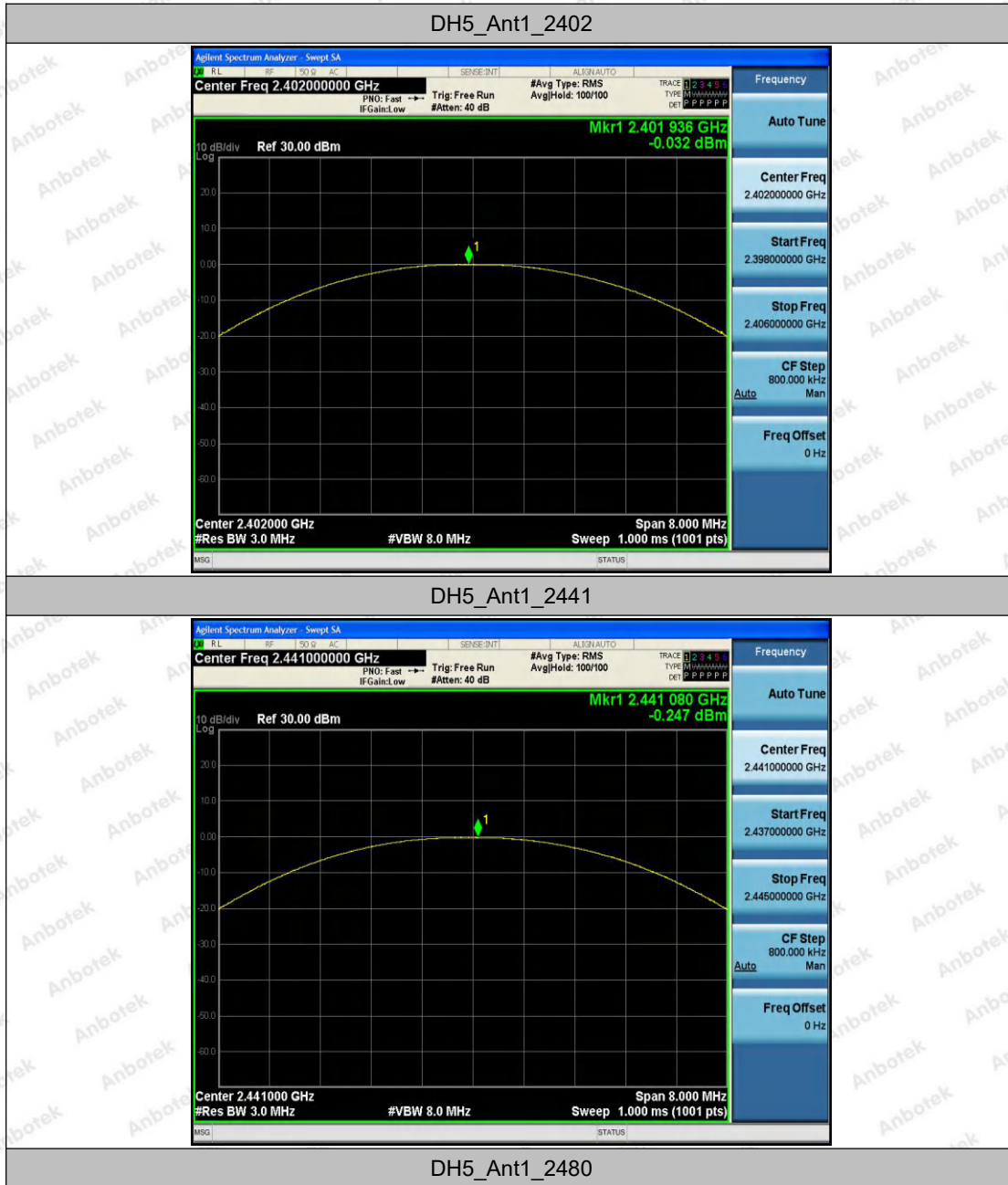
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.03	≤20.97	PASS
		2441	-0.25	≤20.97	PASS
		2480	0.34	≤20.97	PASS
2DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.66	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
3DH5	Ant1	2402	-0.37	≤20.97	PASS
		2441	-0.53	≤20.97	PASS
		2480	0.03	≤20.97	PASS

Test Graphs



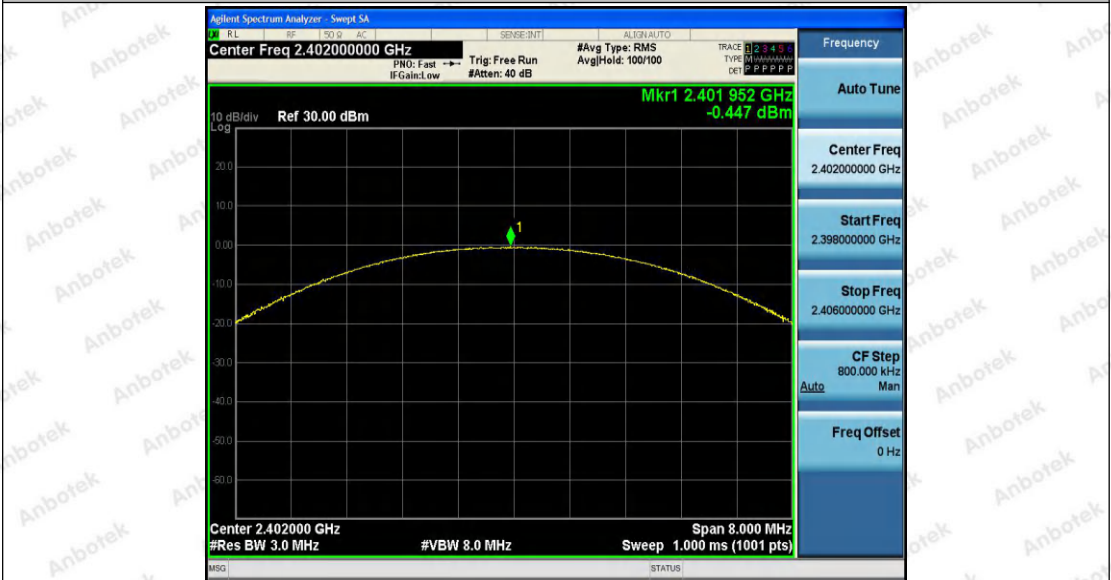
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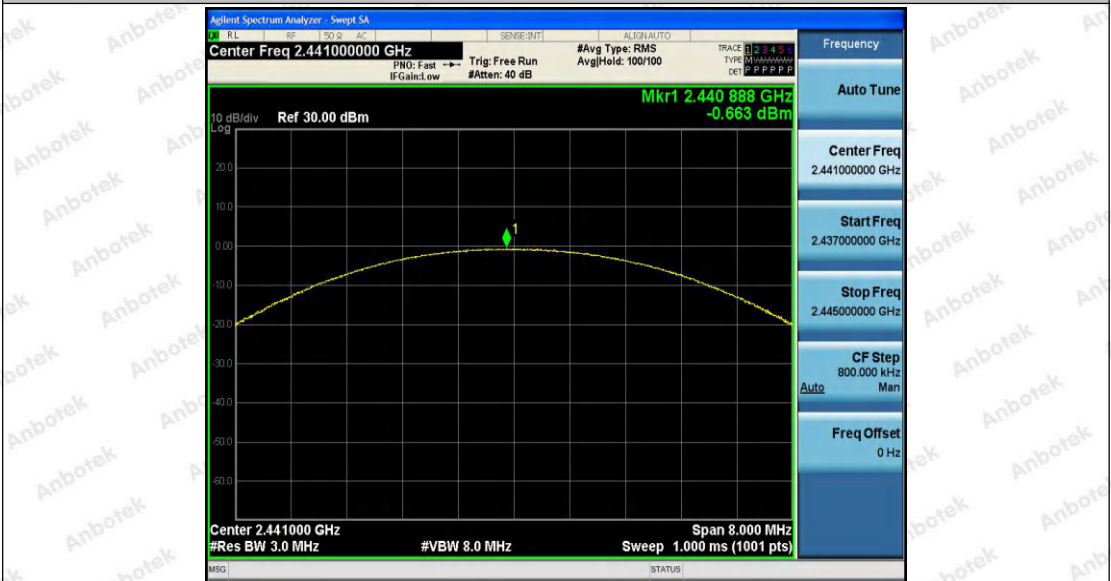
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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.962	≥0.948	PASS
2DH5	Ant1	Hop	1.322	≥0.884	PASS
3DH5	Ant1	Hop	0.978	≥0.888	PASS

Test Graphs

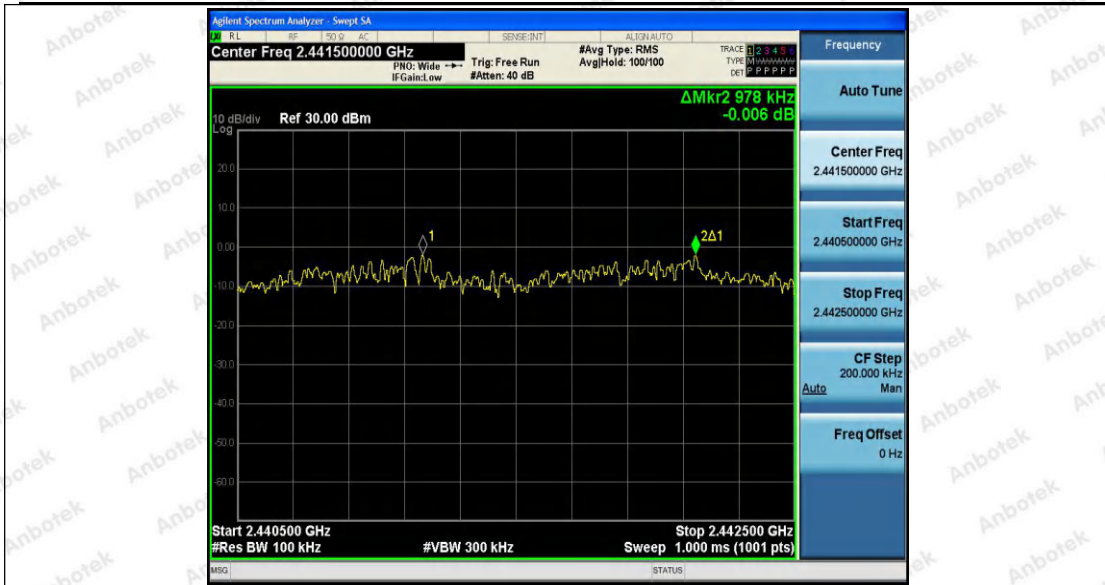


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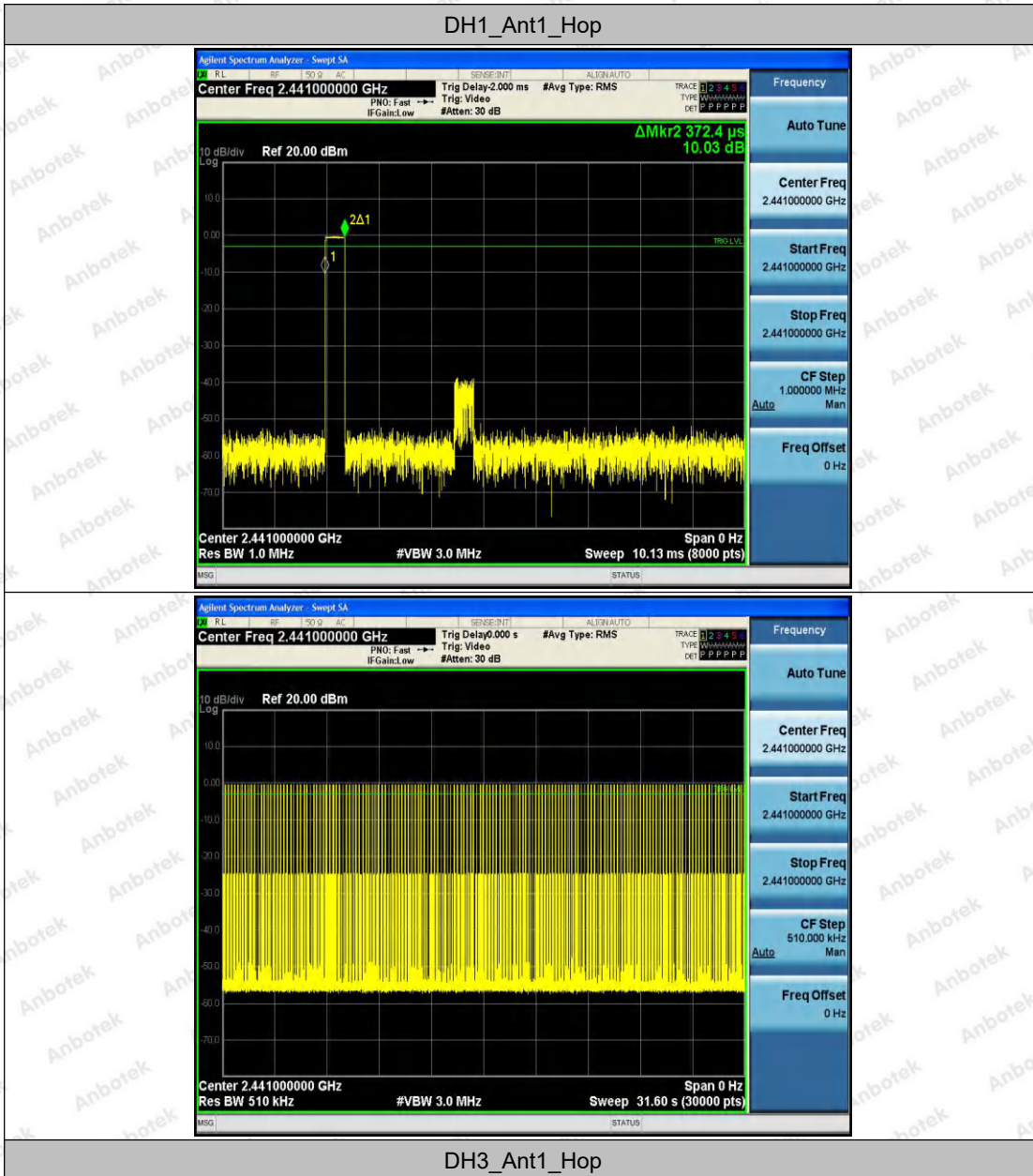
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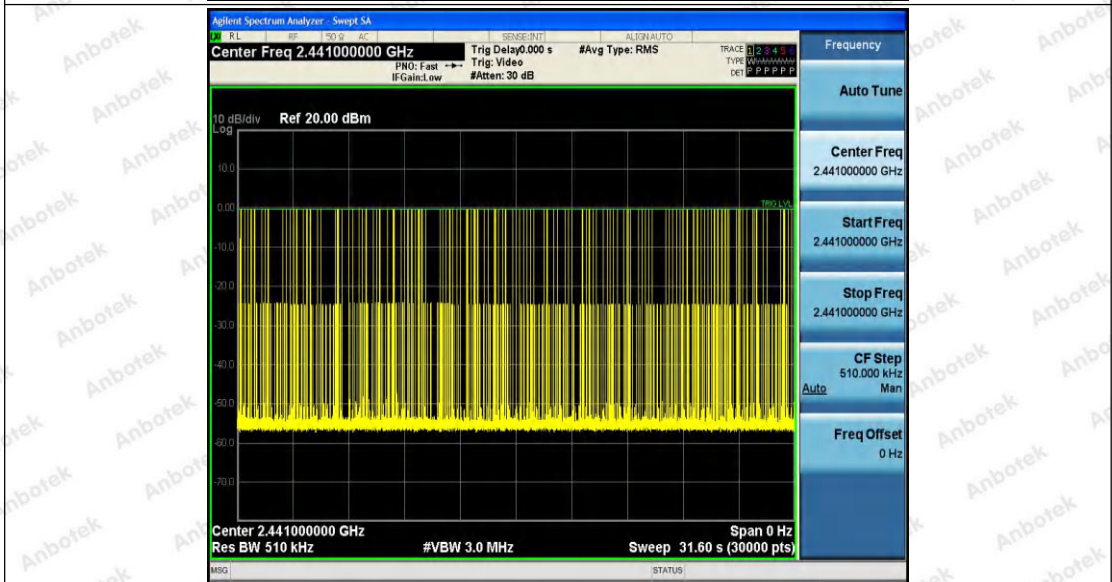
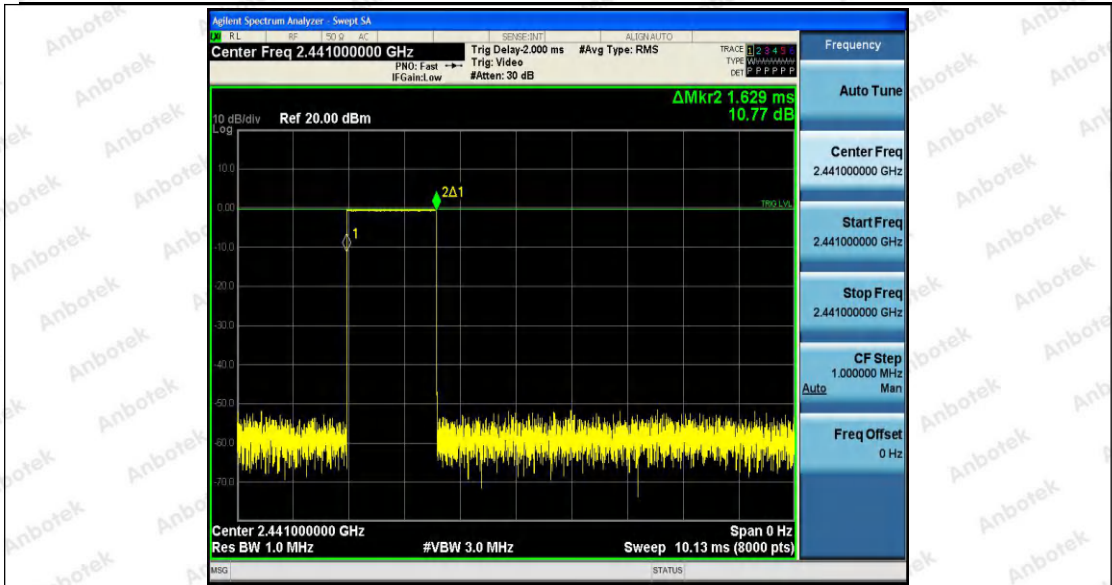
Appendix E: Time of occupancy

Test Result

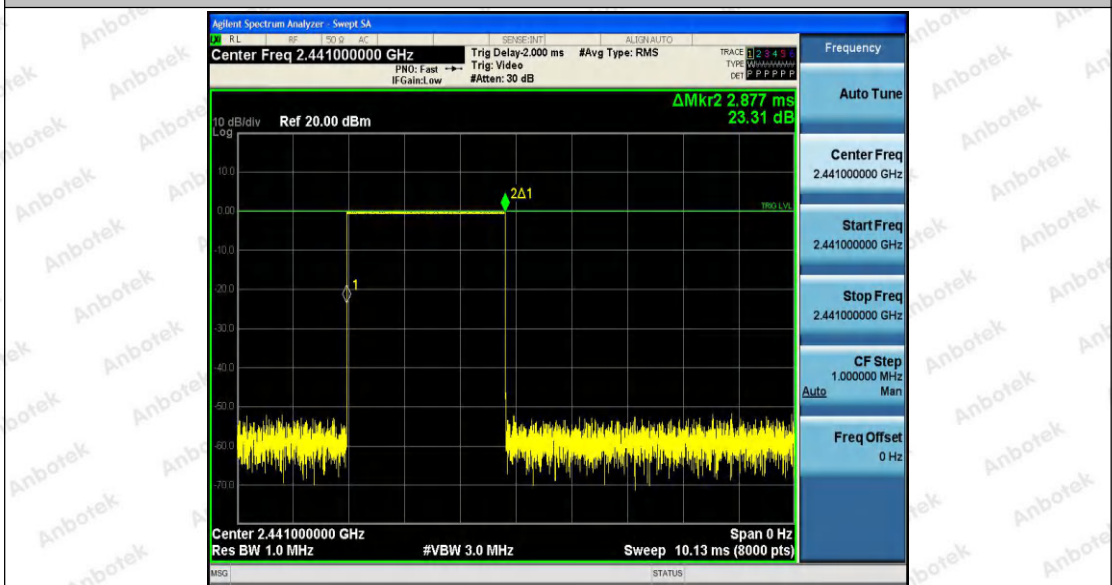
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	102	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

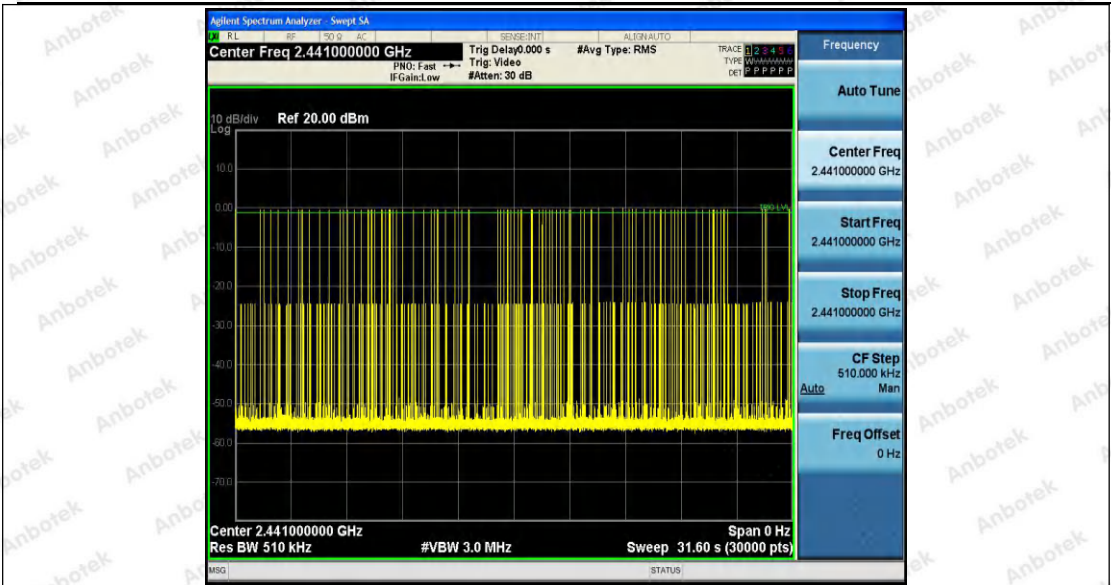


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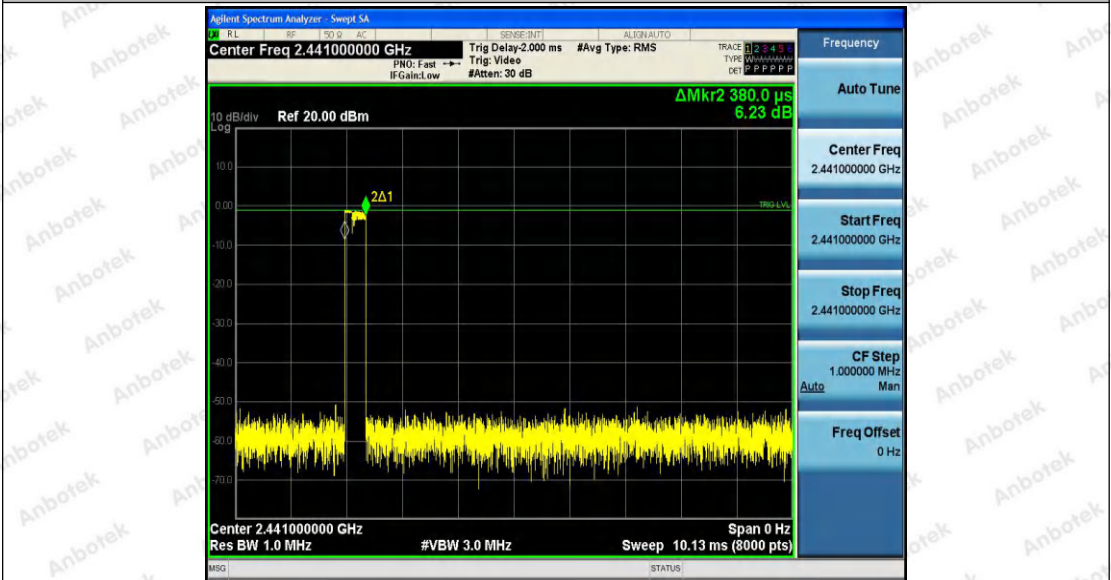
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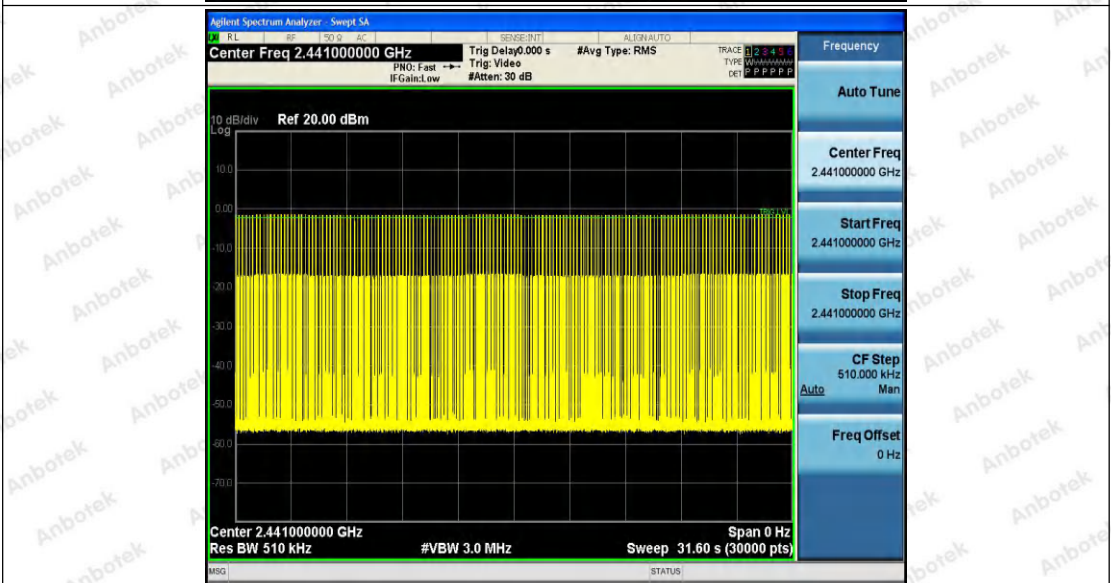
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

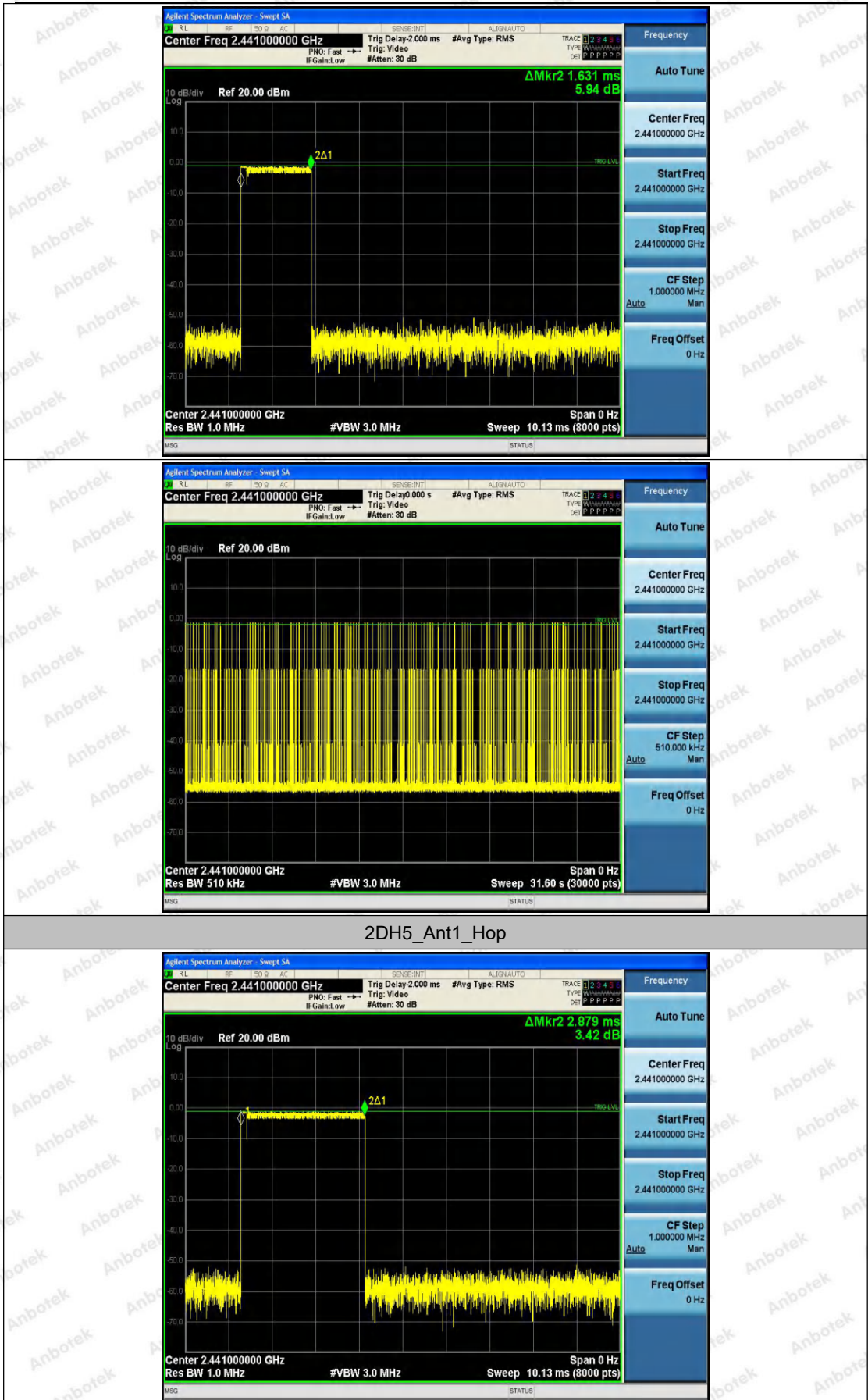


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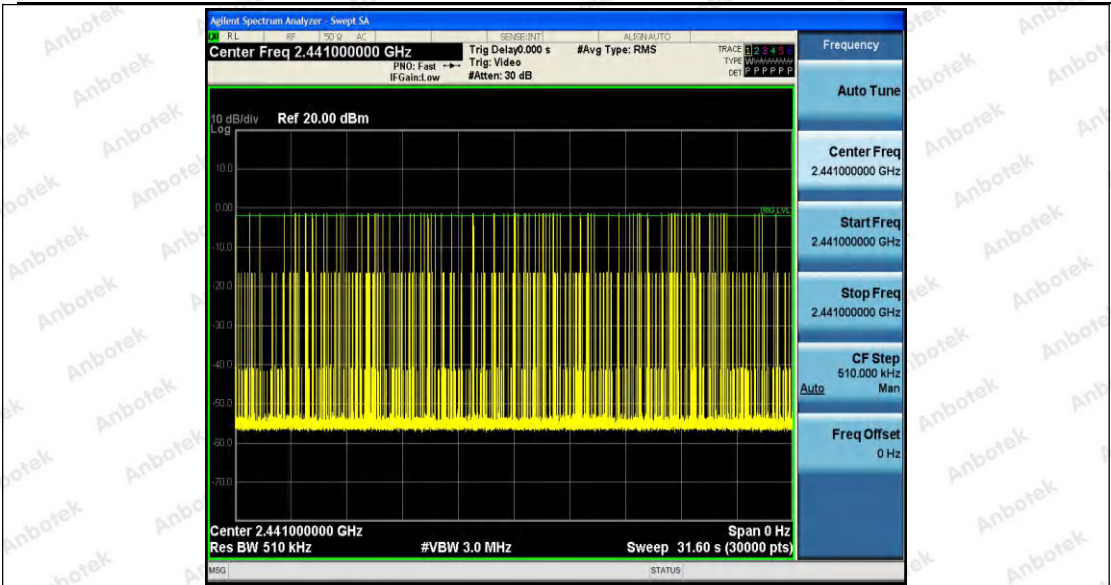
2DH5_Ant1_Hop

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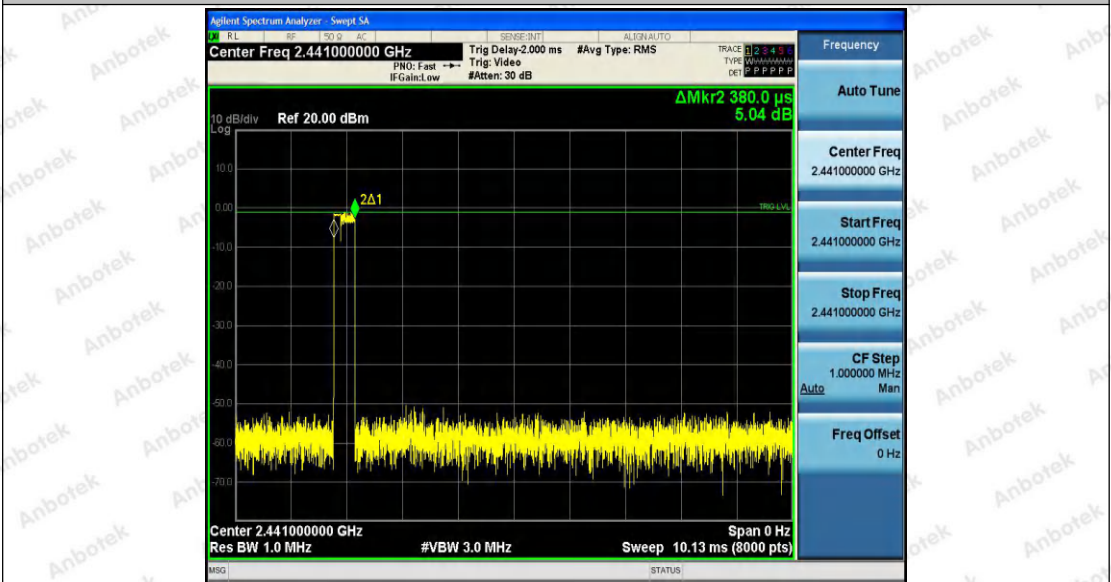
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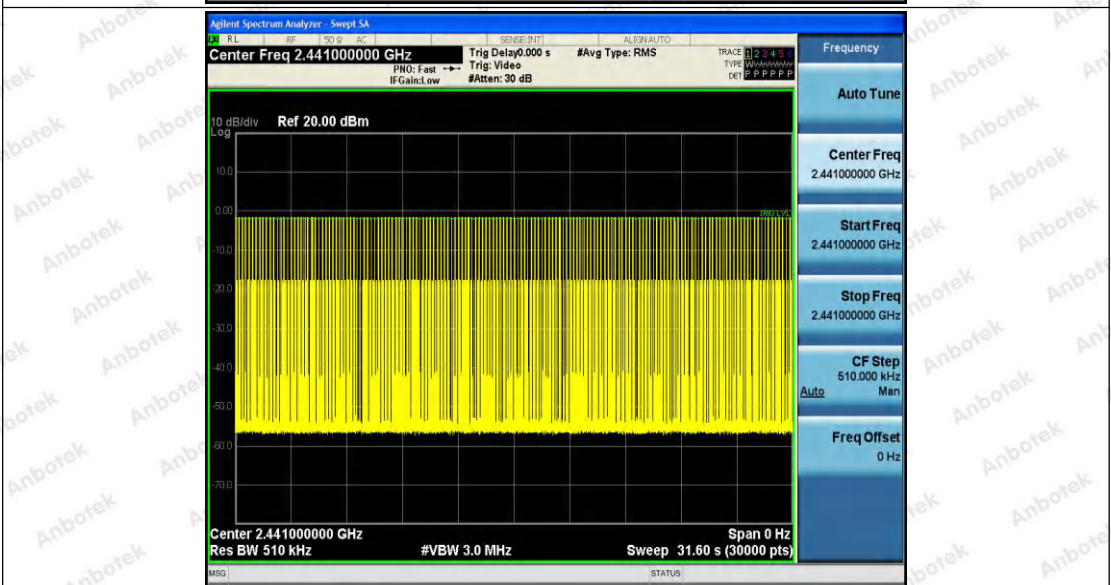
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

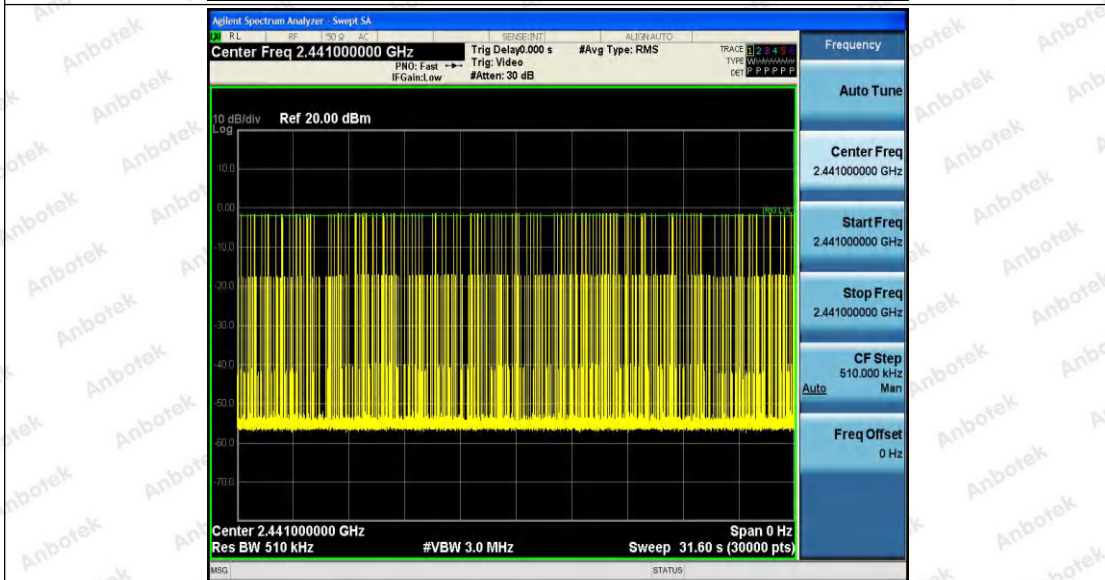
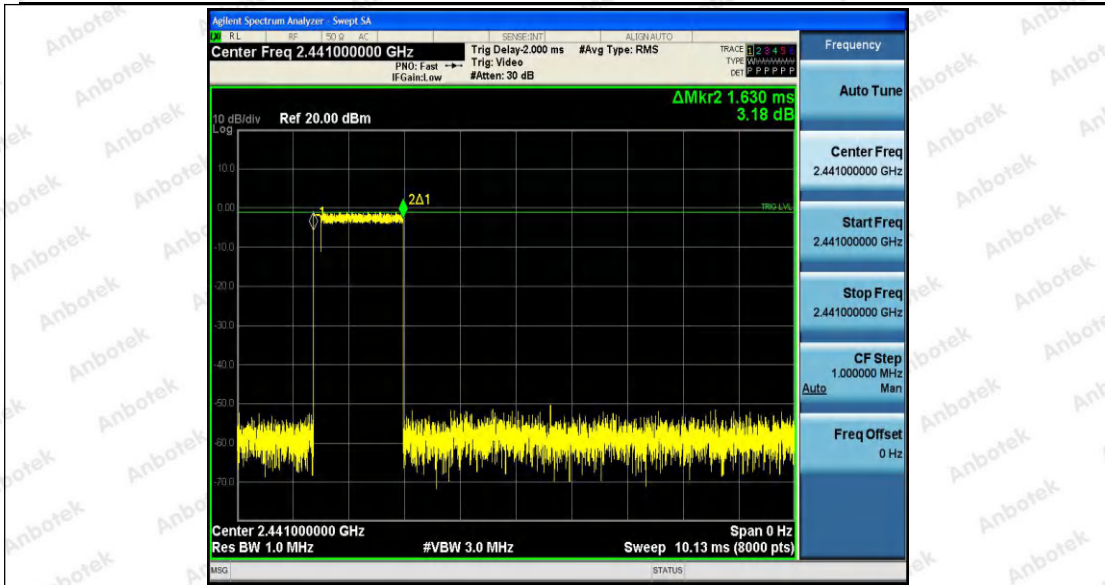


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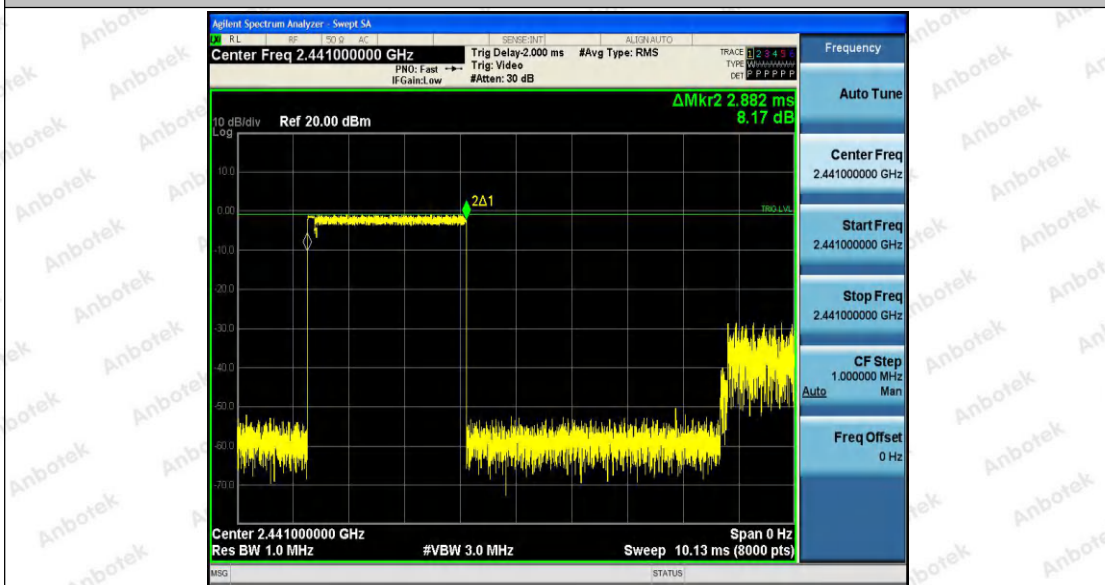
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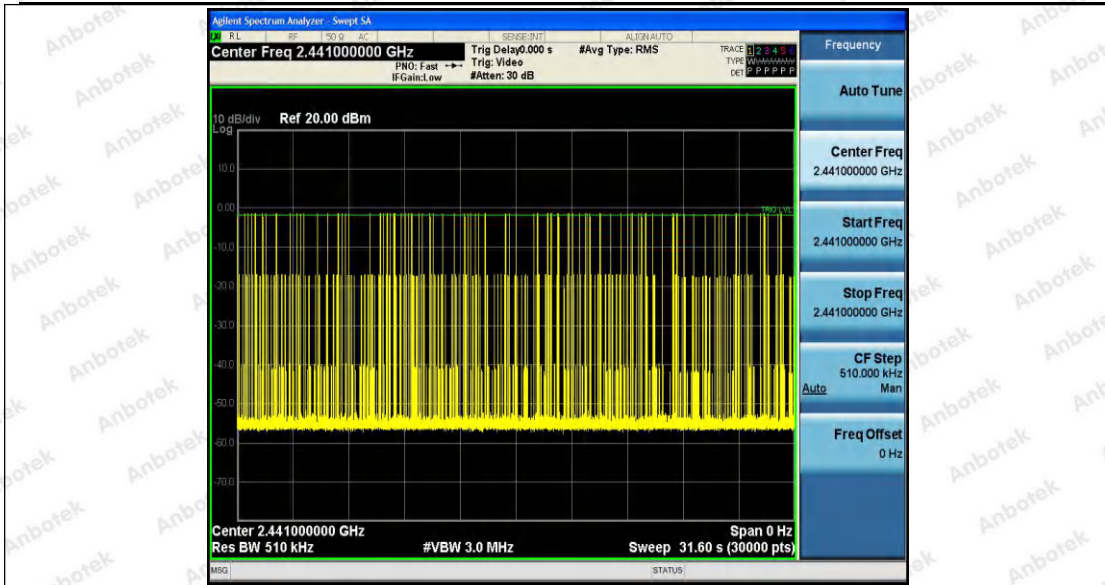
3DH5_Ant1_Hop



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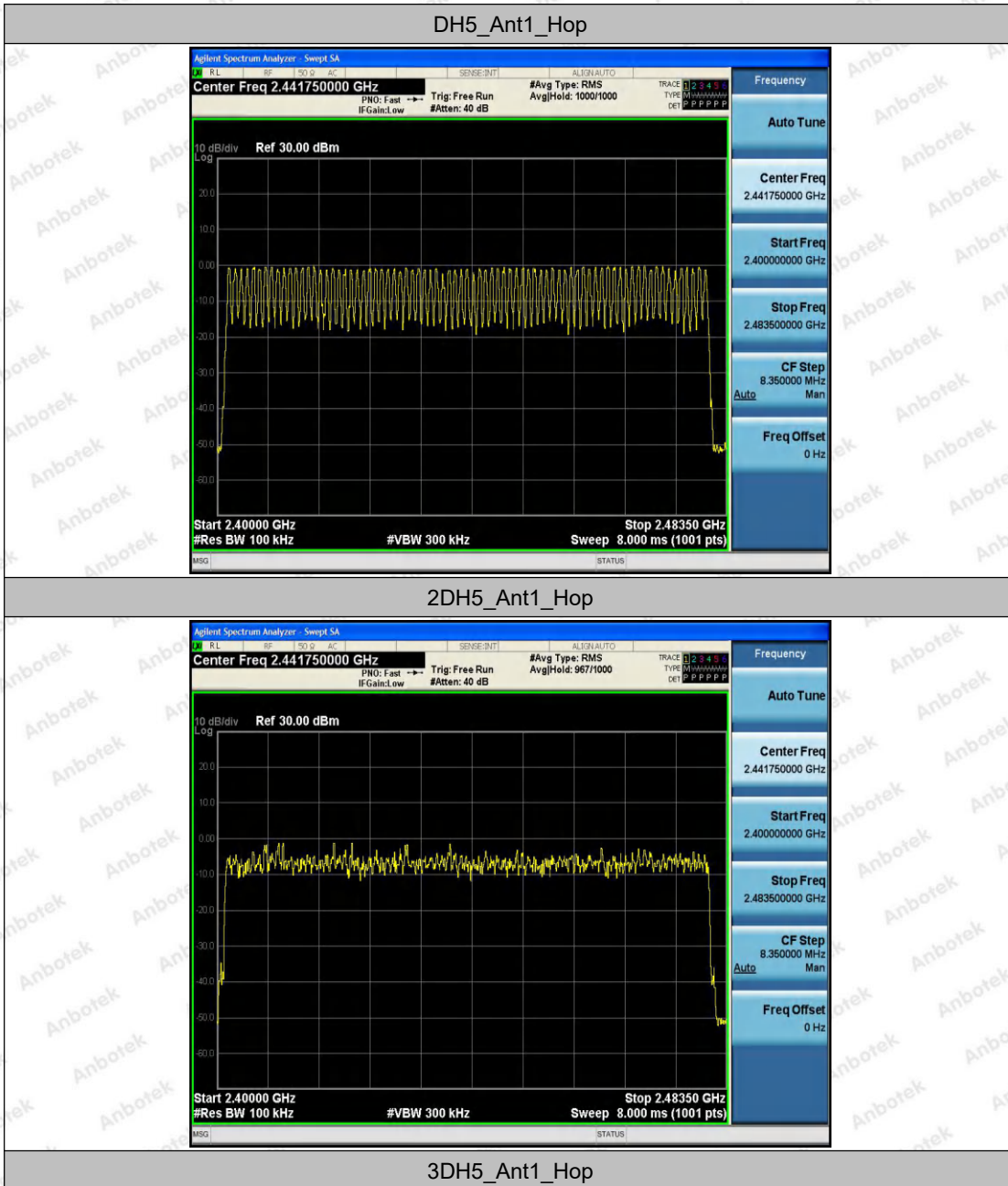
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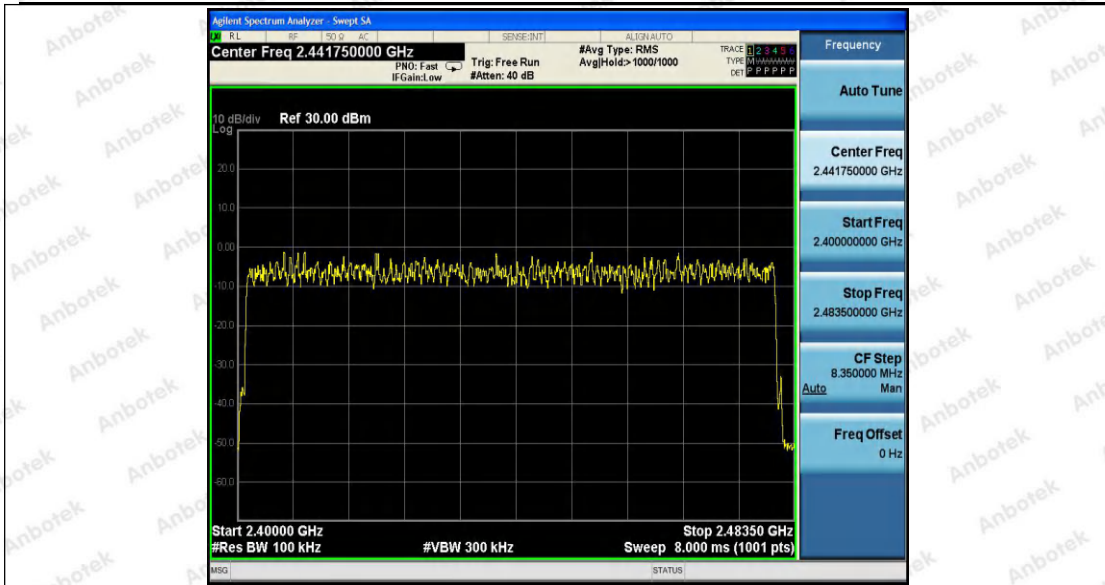
Appendix F: Number of hopping channels

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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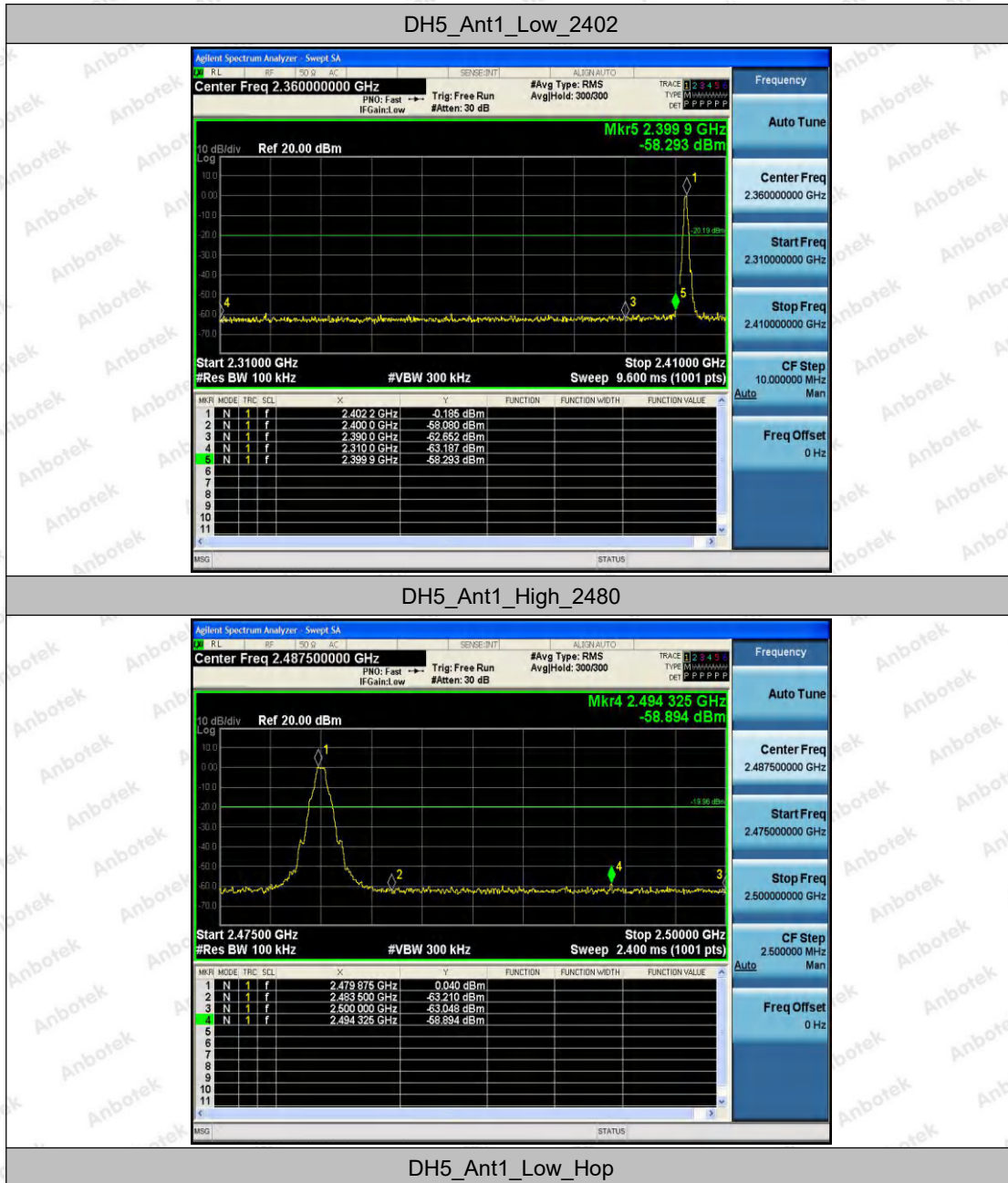
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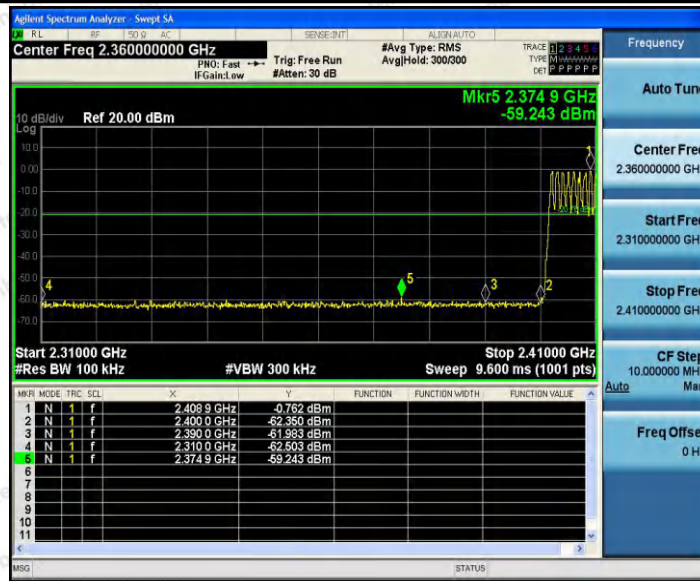
Appendix G: Band edge measurements

Test Result

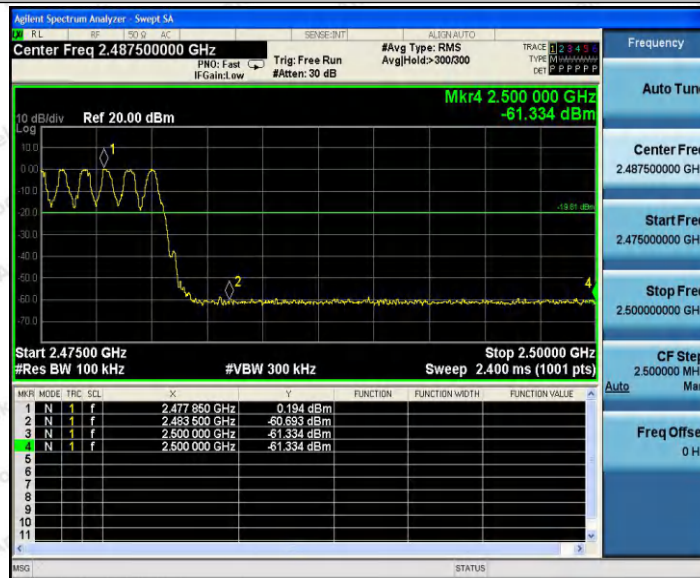
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.19	-58.29	≤-20.19	PASS
		High	2480	0.04	-58.89	≤-19.96	PASS
		Low	Hop	-0.76	-59.24	≤-20.76	PASS
		High	Hop	0.19	-61.33	≤-19.81	PASS
2DH5	Ant1	Low	2402	-1.62	-56.18	≤-21.62	PASS
		High	2480	-1.28	-59.4	≤-21.28	PASS
		Low	Hop	-3.77	-59.72	≤-23.77	PASS
		High	Hop	-3.02	-62.57	≤-23.02	PASS
3DH5	Ant1	Low	2402	-1.82	-57.3	≤-21.82	PASS
		High	2480	-1.04	-59.38	≤-21.04	PASS
		Low	Hop	-3.23	-59.88	≤-23.23	PASS
		High	Hop	-3.39	-62.95	≤-23.39	PASS

Test Graphs

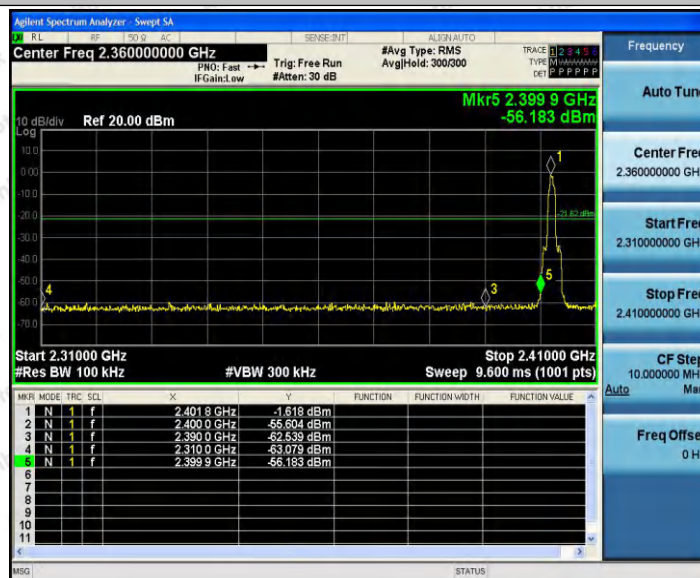




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

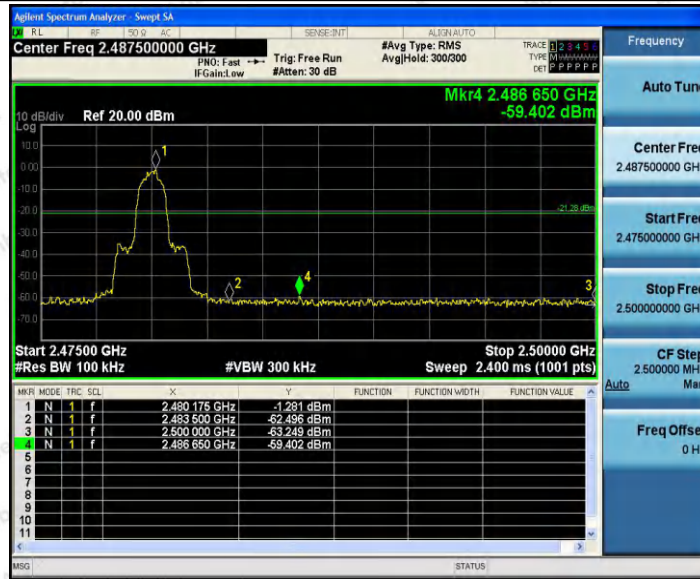


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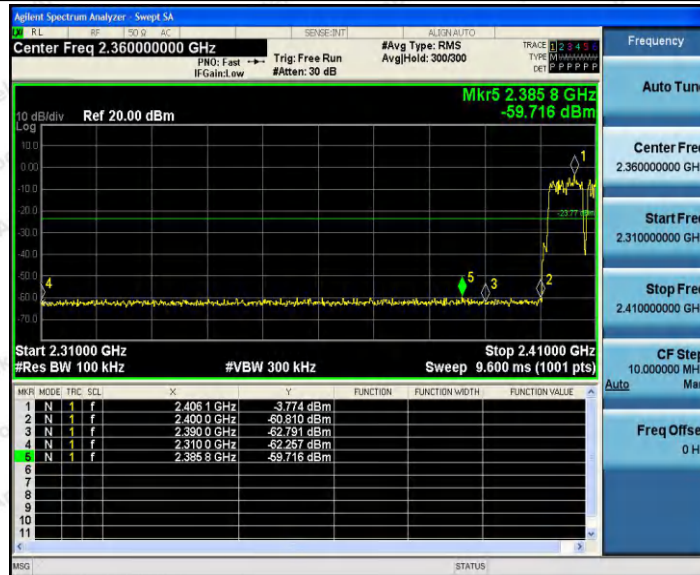
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop

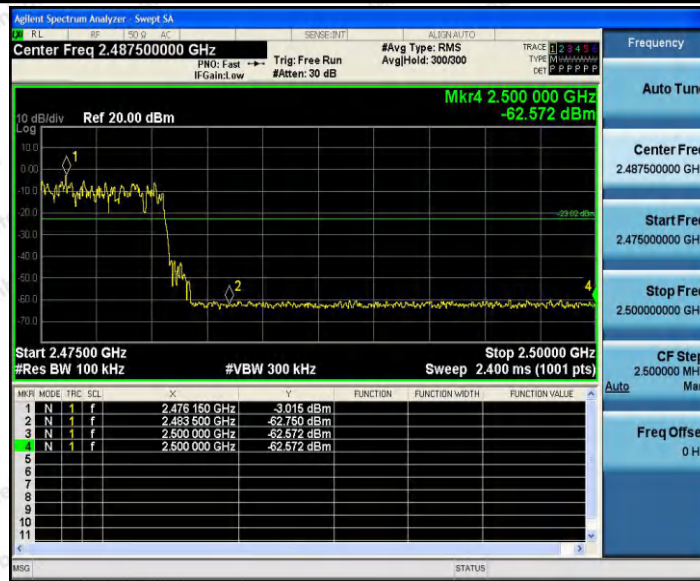


2DH5_Ant1_High_Hop

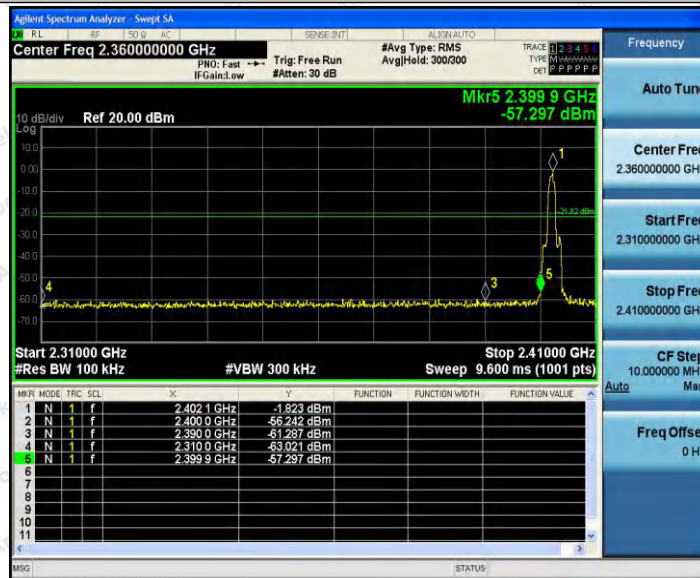
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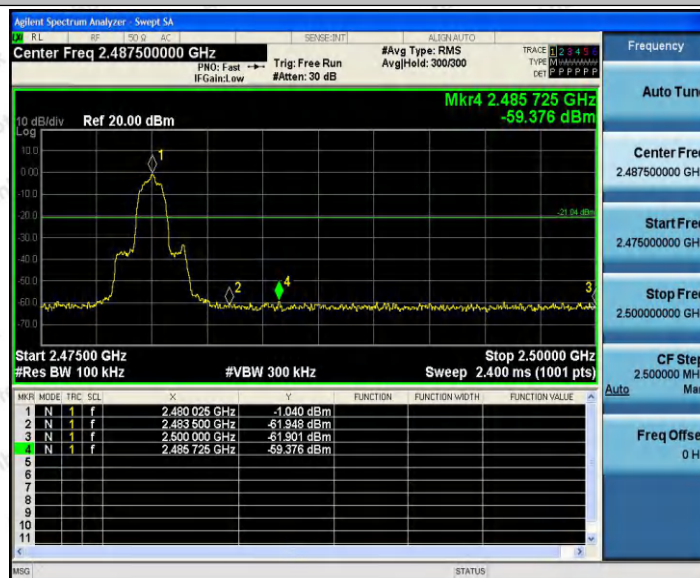
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



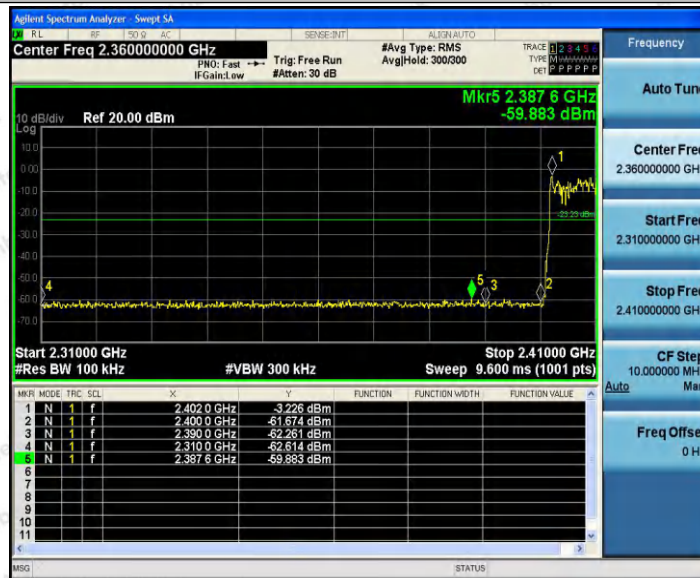
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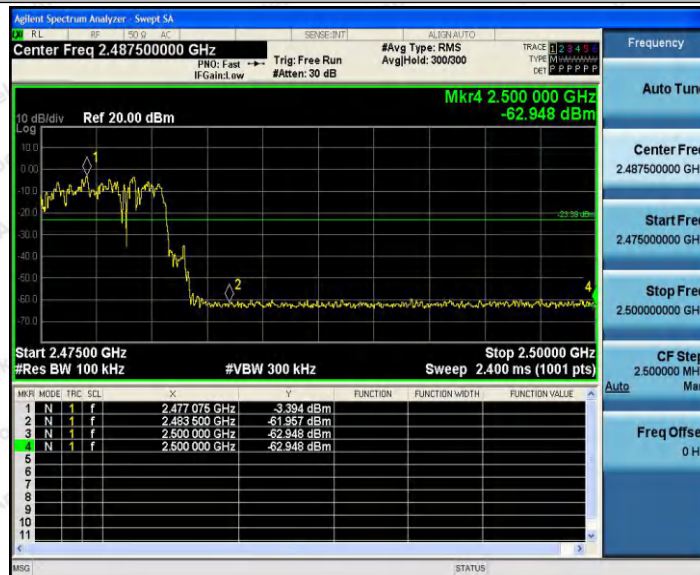
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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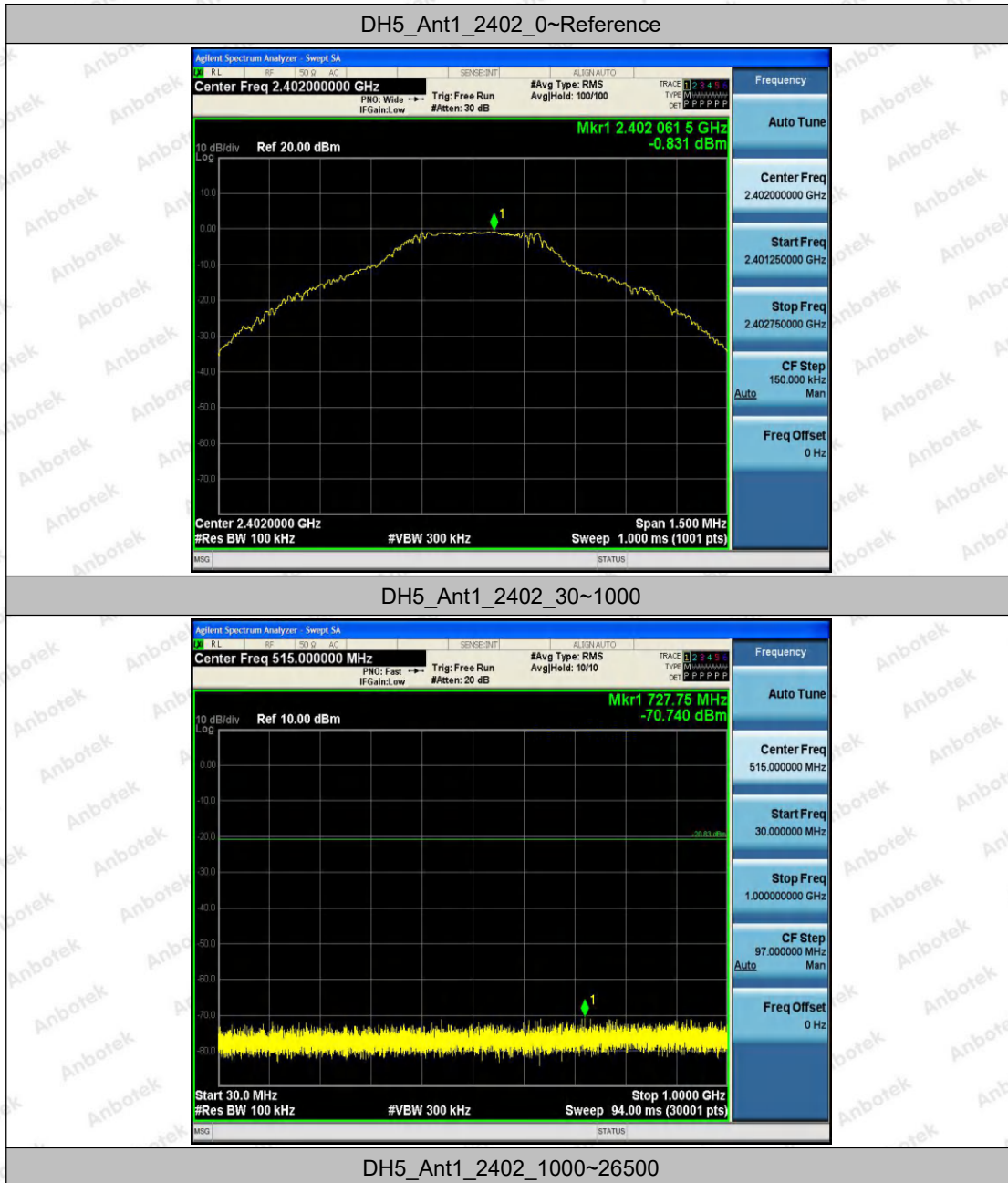
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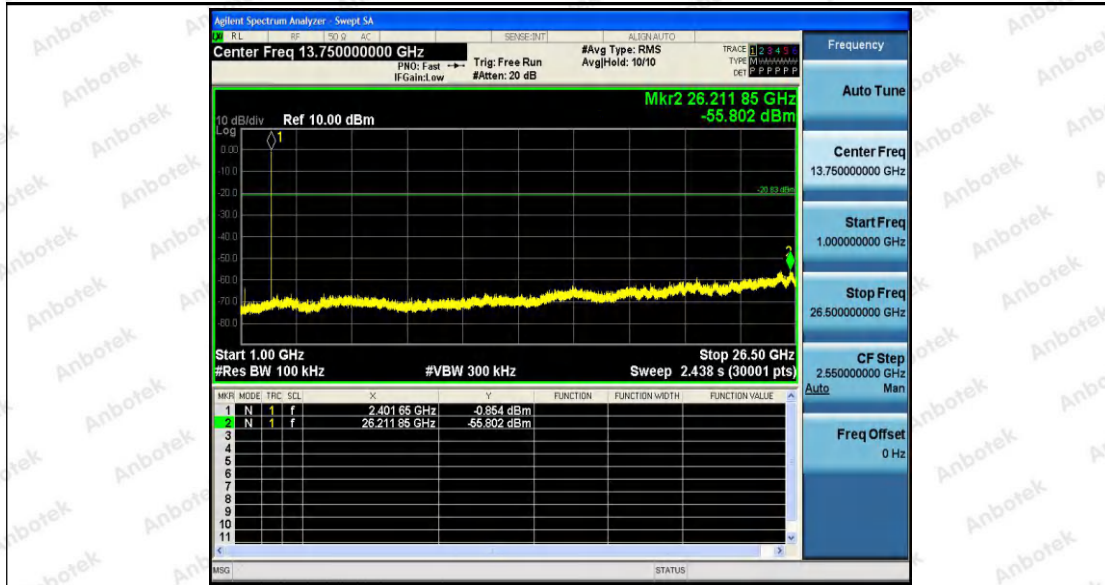
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-70.74	≤-20.83	PASS
			1000~26500	-0.83	-55.8	≤-20.83	PASS
		2441	Reference	-0.57	-0.57	---	PASS
			30~1000	-0.57	-70.69	≤-20.57	PASS
			1000~26500	-0.57	-56.2	≤-20.57	PASS
		2480	Reference	-0.30	-0.30	---	PASS
			30~1000	-0.30	-70.65	≤-20.3	PASS
			1000~26500	-0.30	-55.34	≤-20.3	PASS
2DH5	Ant1	2402	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.58	≤-21.71	PASS
			1000~26500	-1.71	-55.52	≤-21.71	PASS
		2441	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-70.52	≤-22.15	PASS
			1000~26500	-2.15	-55.28	≤-22.15	PASS
		2480	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-70.38	≤-21.43	PASS
			1000~26500	-1.43	-56.21	≤-21.43	PASS
3DH5	Ant1	2402	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-70.82	≤-21.84	PASS
			1000~26500	-1.84	-55.41	≤-21.84	PASS
		2441	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-70.67	≤-22.19	PASS
			1000~26500	-2.19	-55.6	≤-22.19	PASS
		2480	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-69.81	≤-21.15	PASS
			1000~26500	-1.15	-54.48	≤-21.15	PASS

Test Graphs

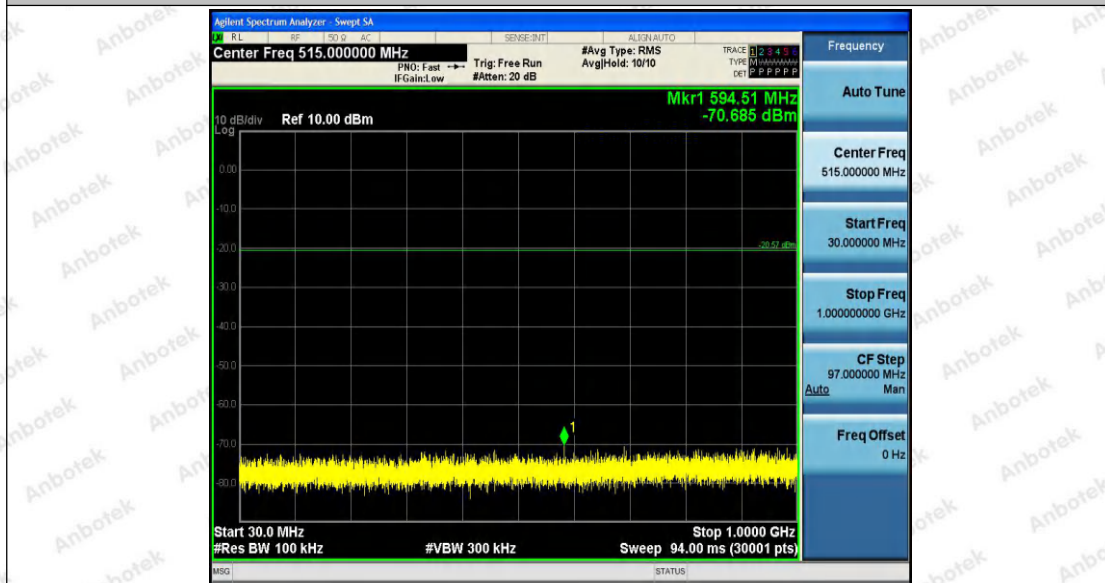




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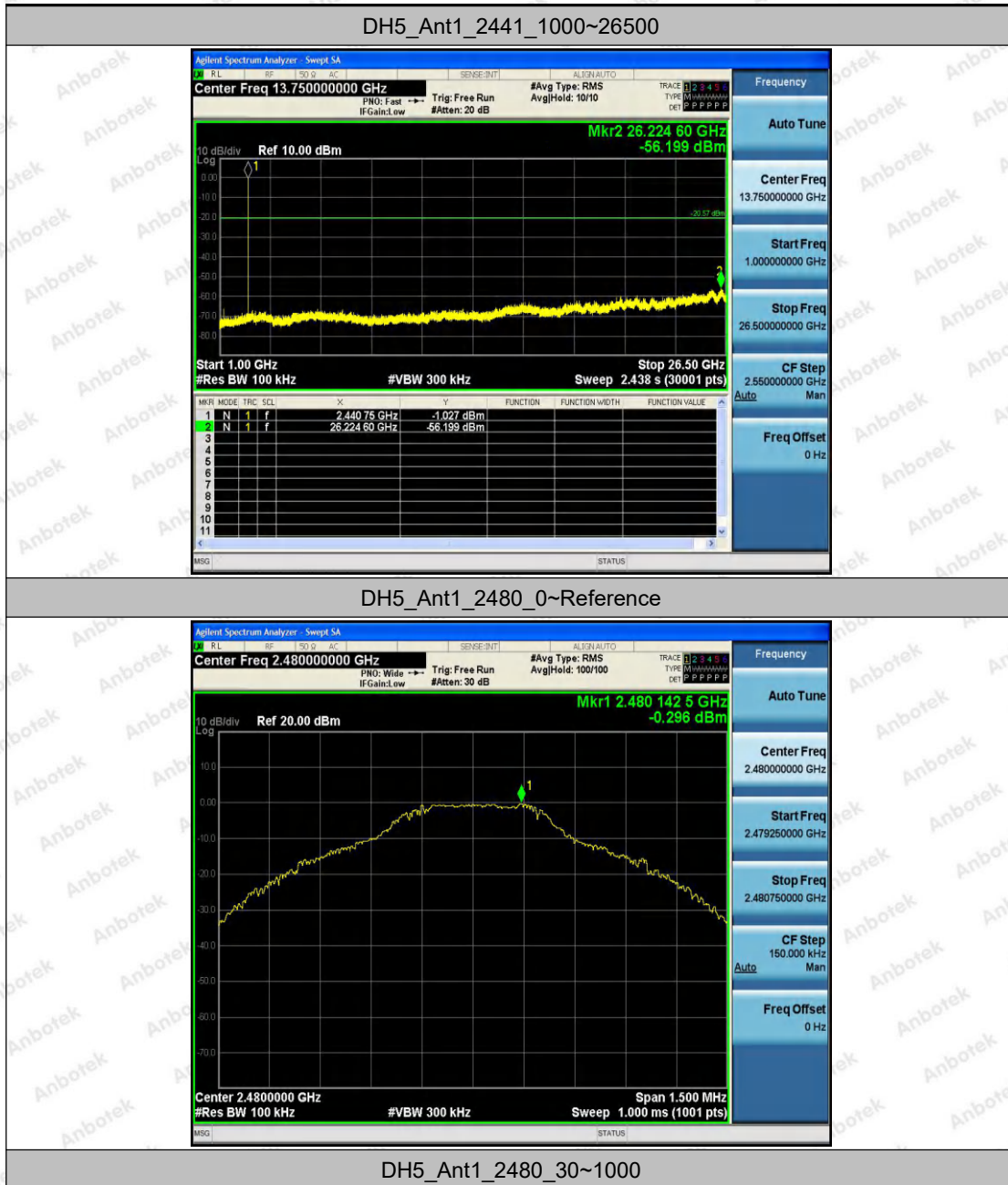
DH5_Ant1_2441_30~1000



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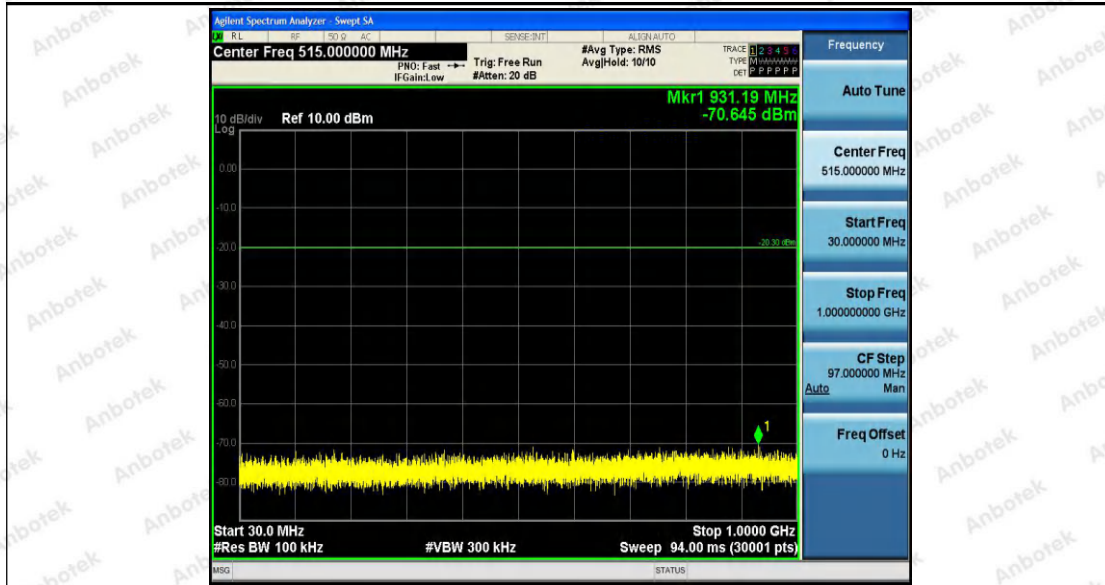


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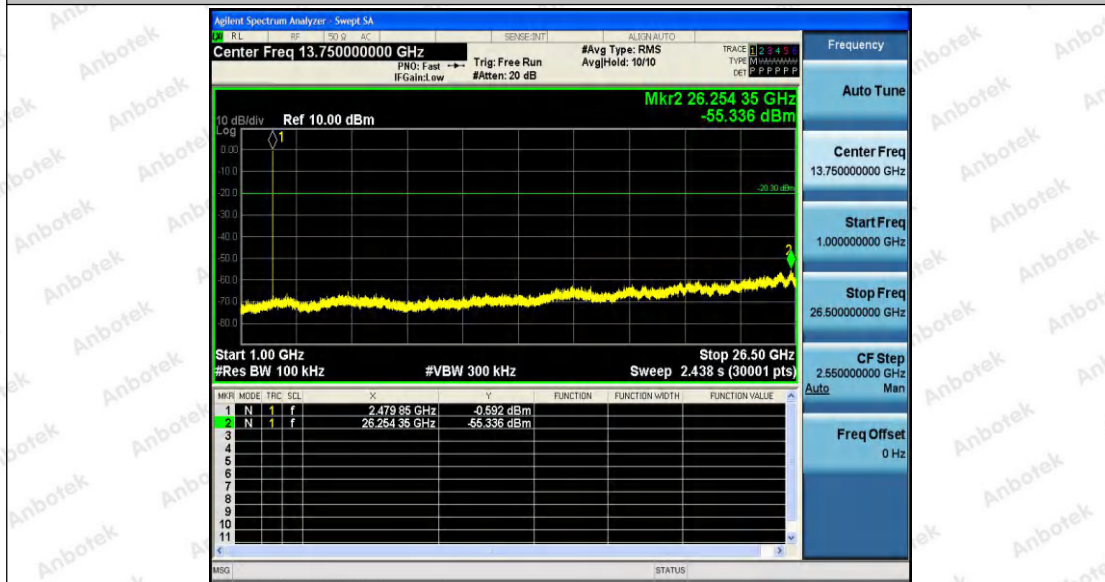
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DH5_Ant1_2480_1000~26500



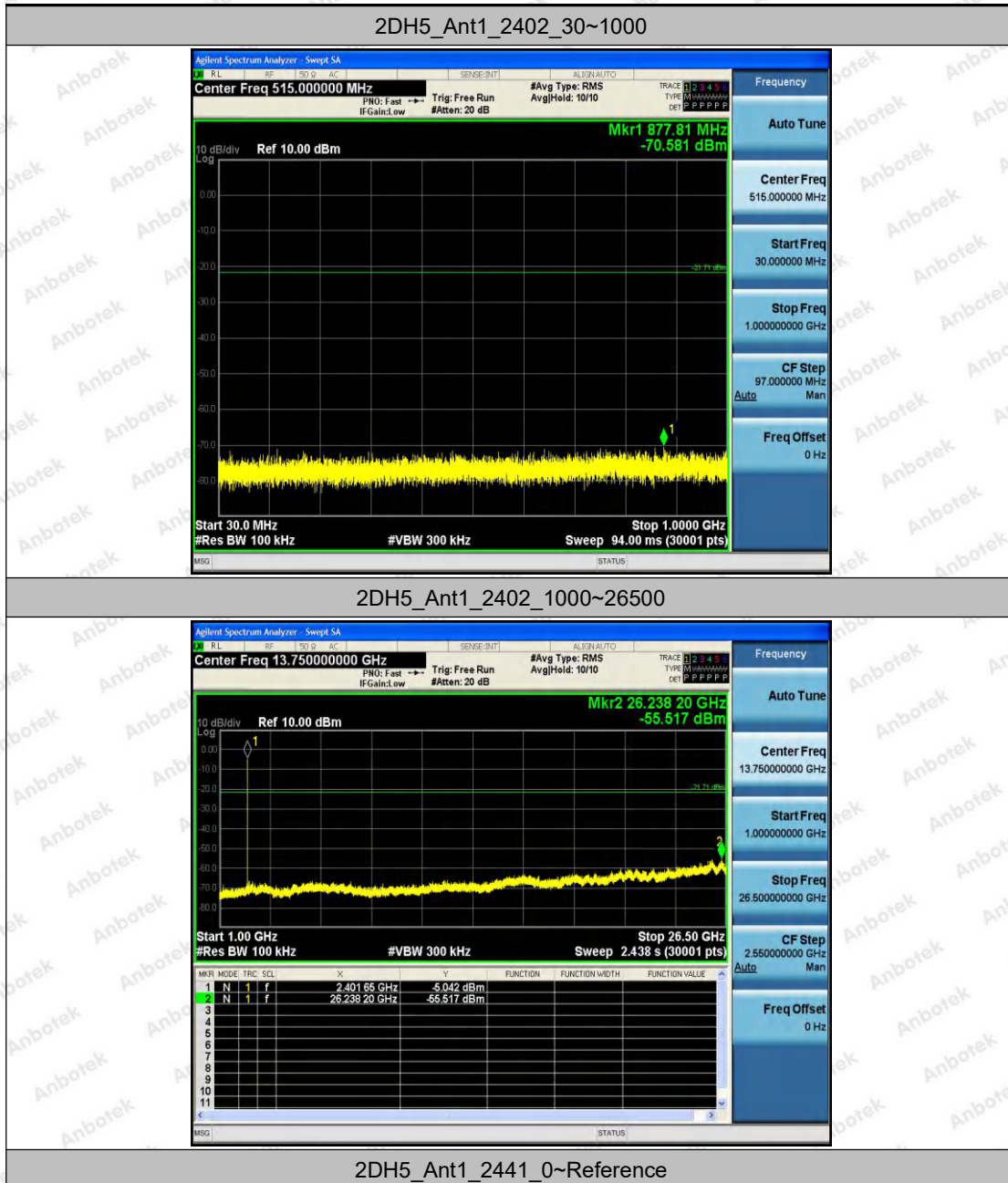
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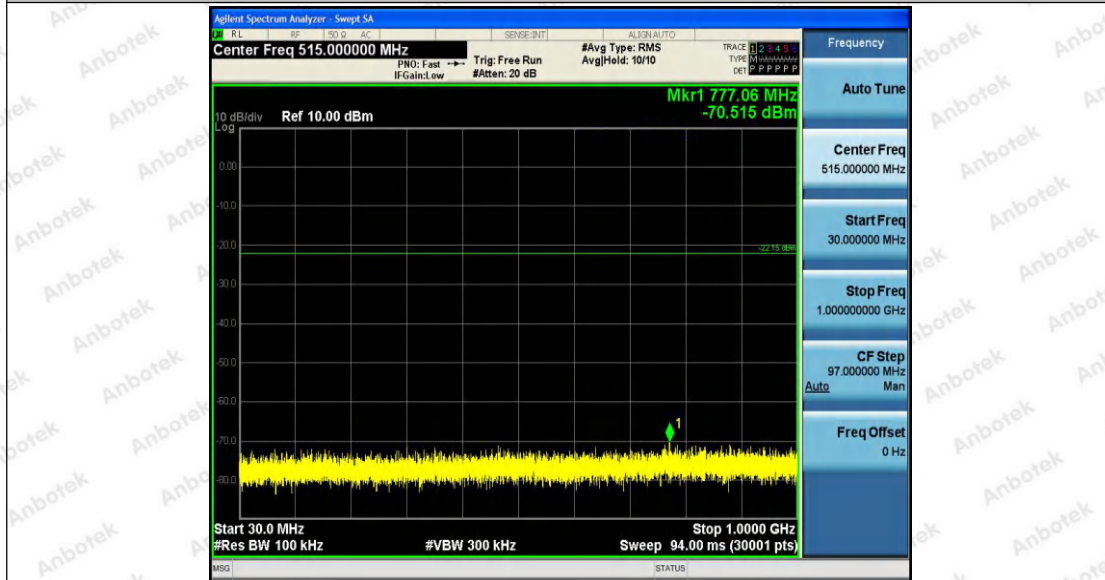
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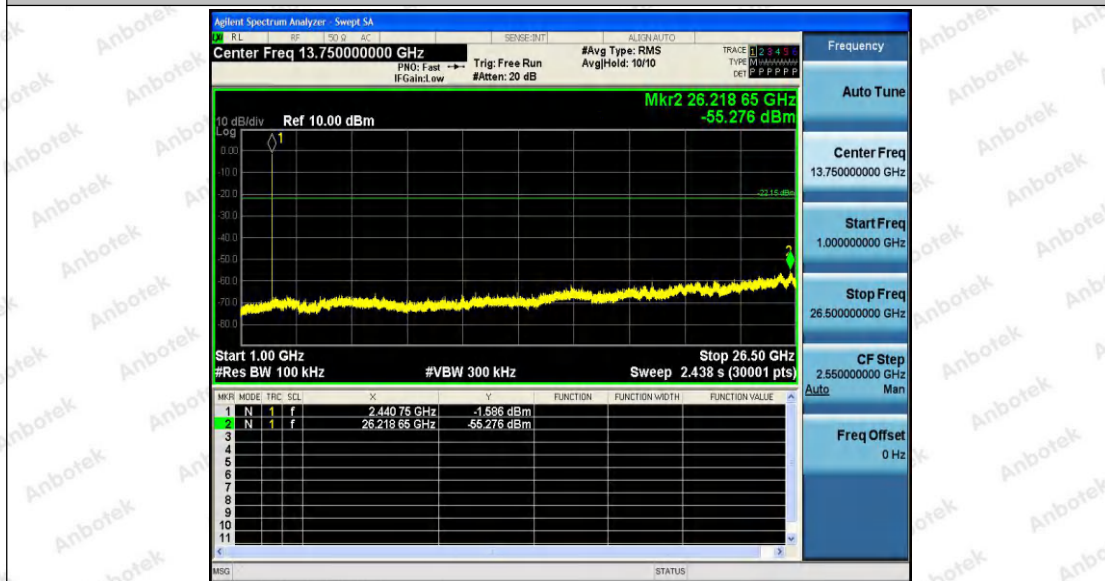
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2DH5_Ant1_2441_30~1000



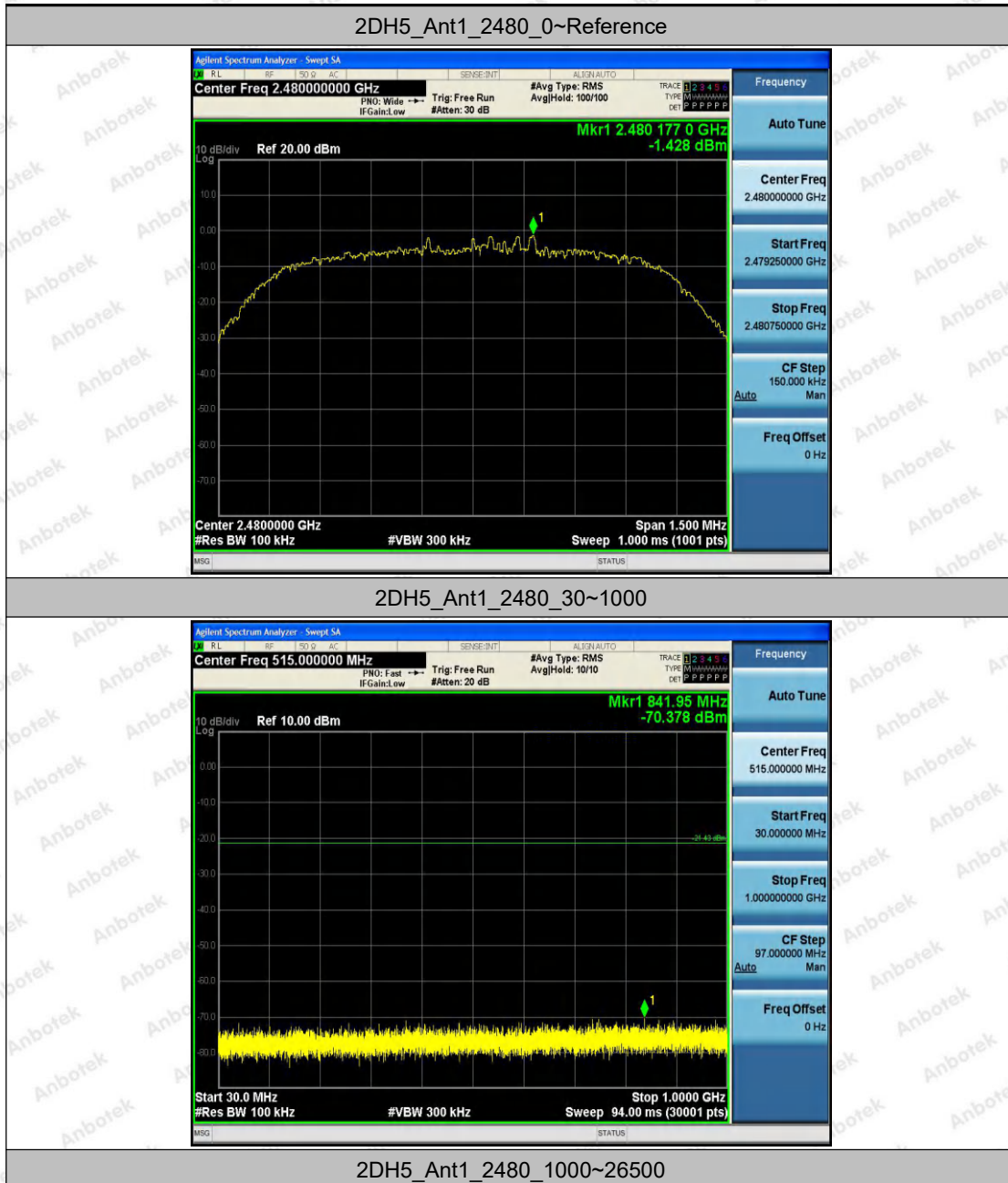
2DH5_Ant1_2441_1000~26500



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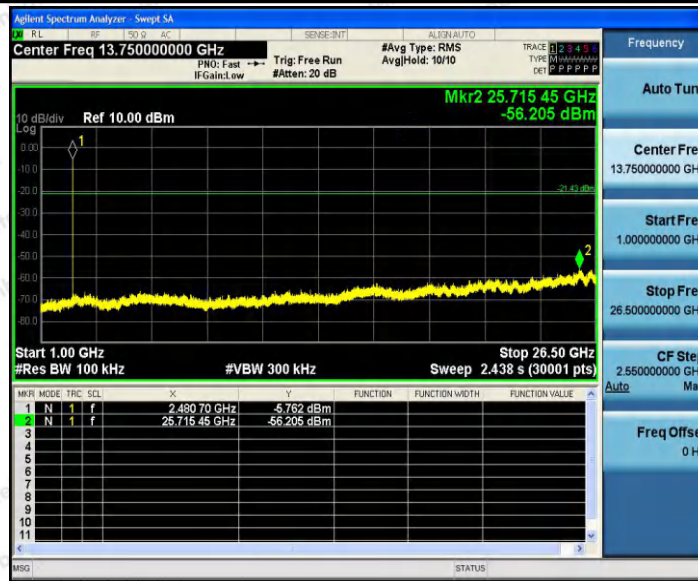
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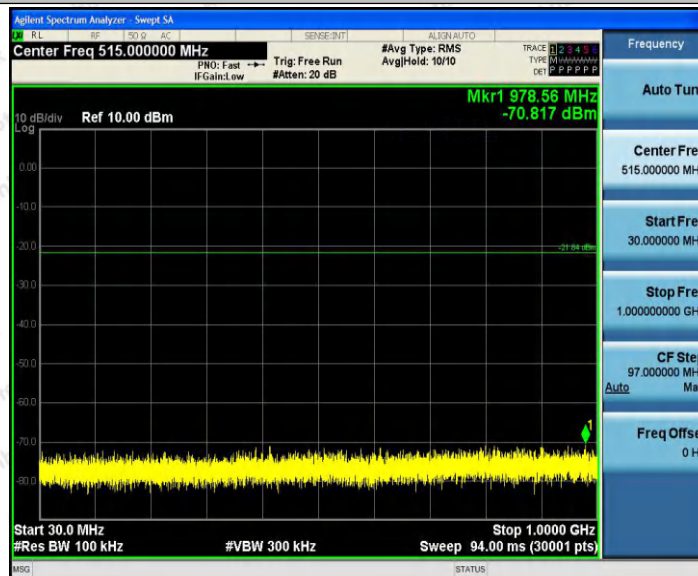
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

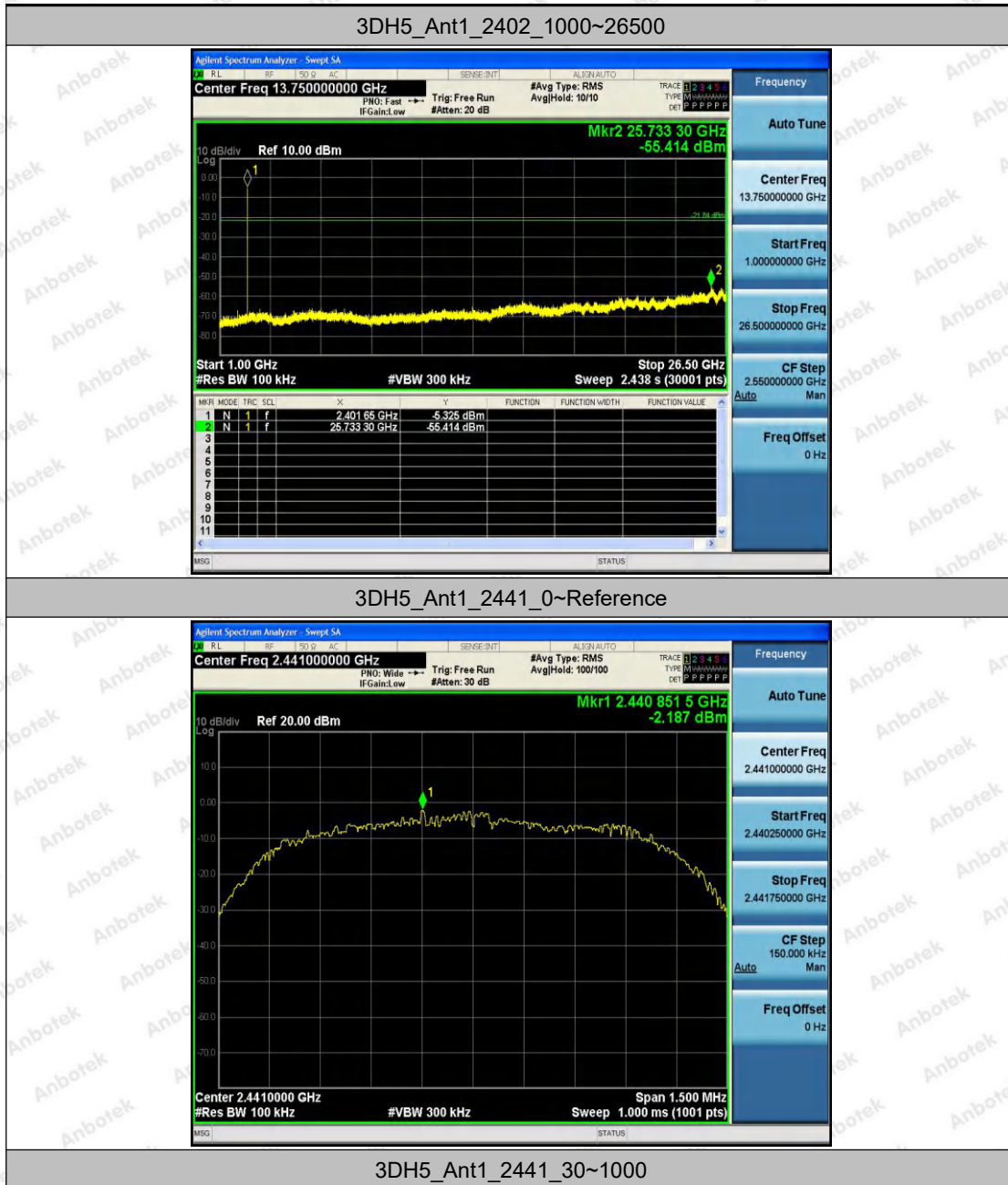


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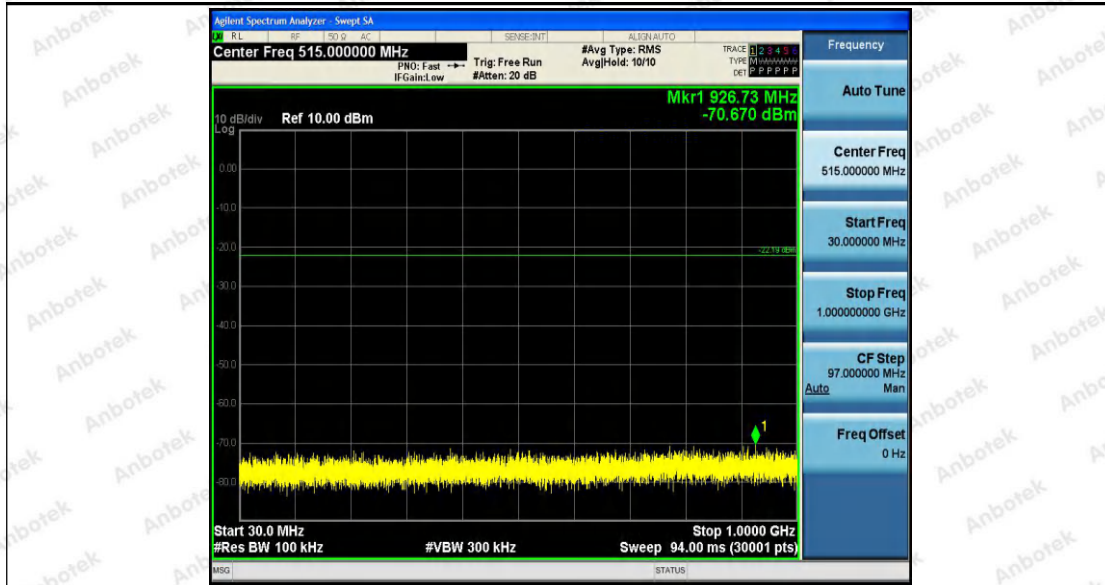
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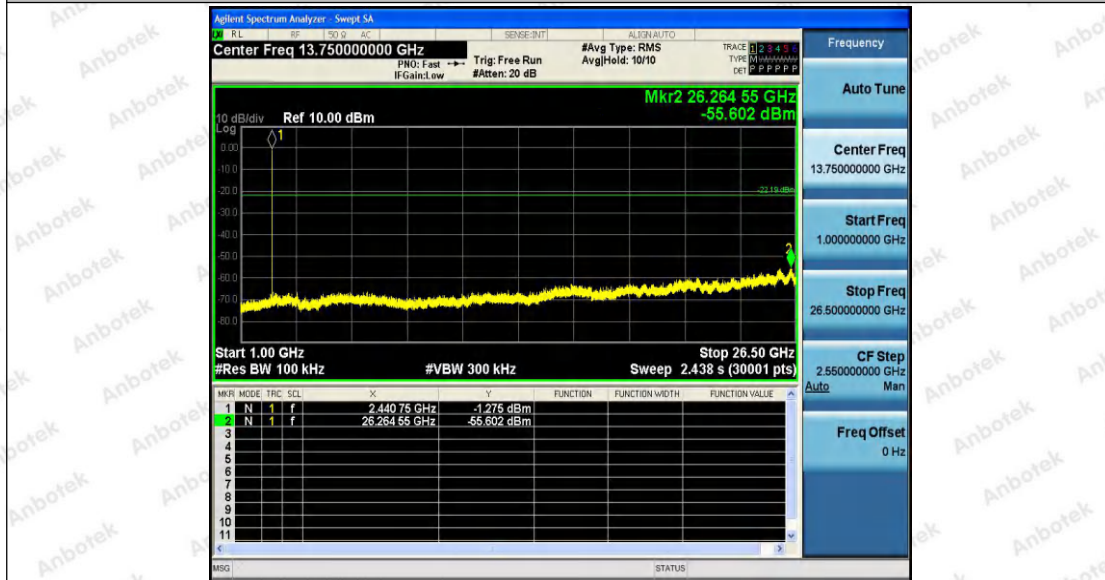
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

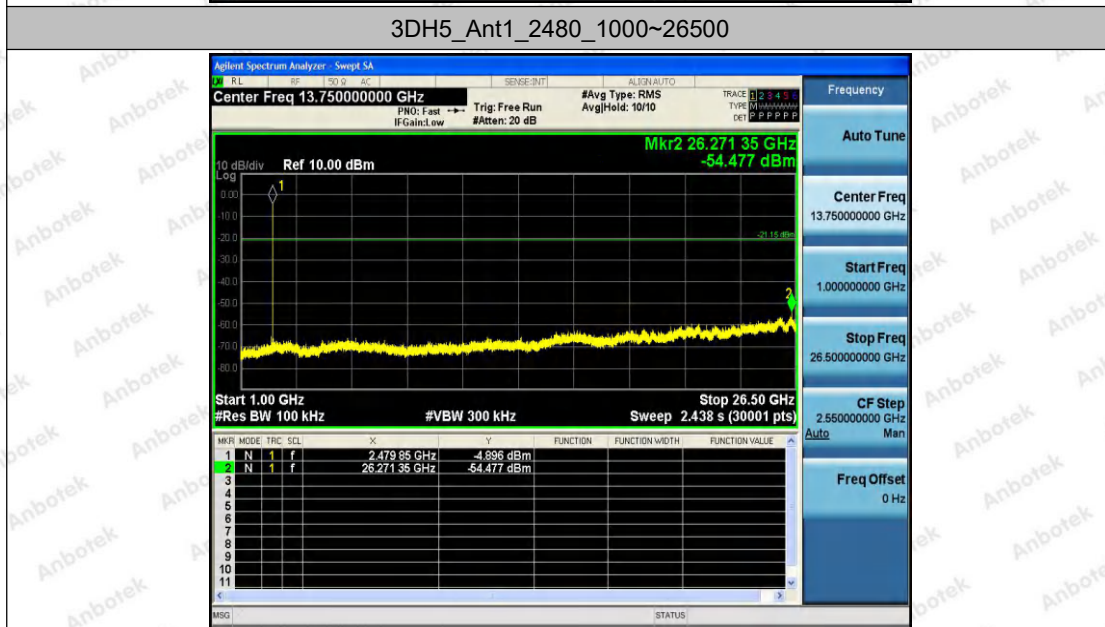
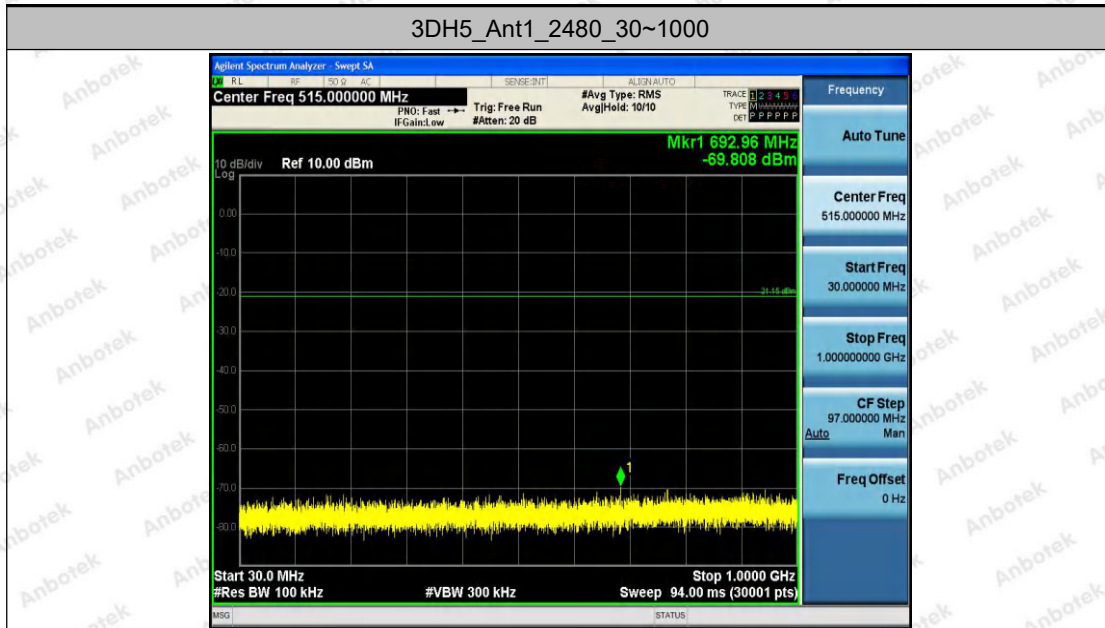


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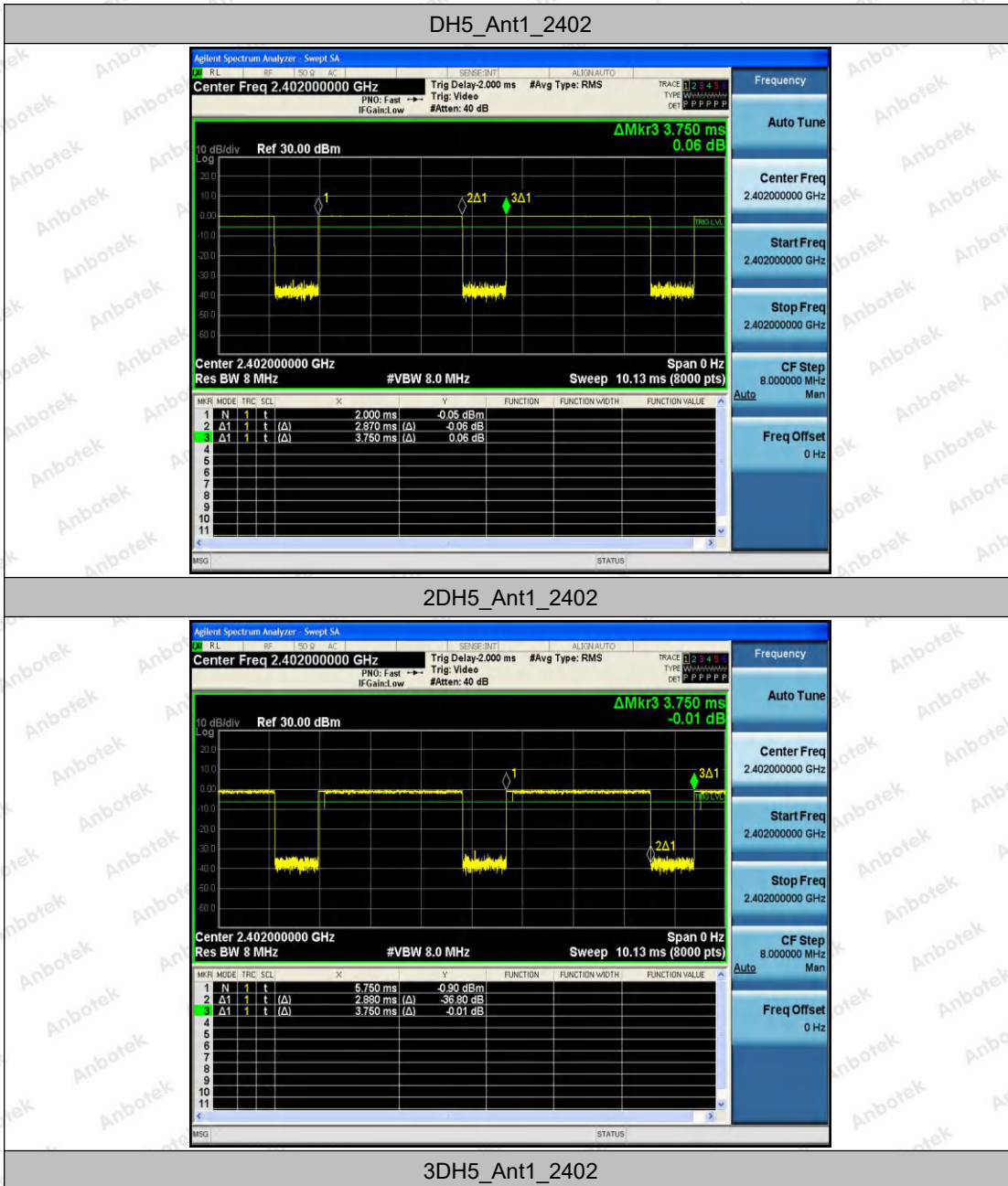
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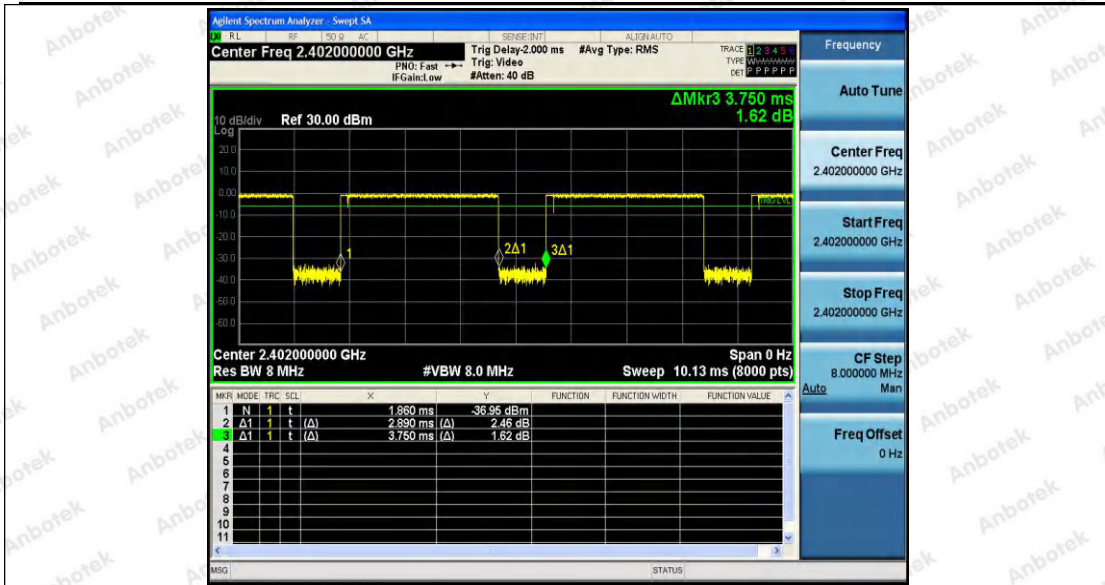
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---