

Appendix Test Data

Report No.:	18220WC20081001	Test Sample No.:	1-2-2
Start Test Date:	2022.4.18	Finish Test Date:	2022.4.22
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	0.939	2401.538	2402.477	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.335	2440.334	2441.669	---	PASS
		2480	1.320	2479.337	2480.657	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.272	2440.352	2441.624	---	PASS
		2480	1.269	2479.352	2480.621	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



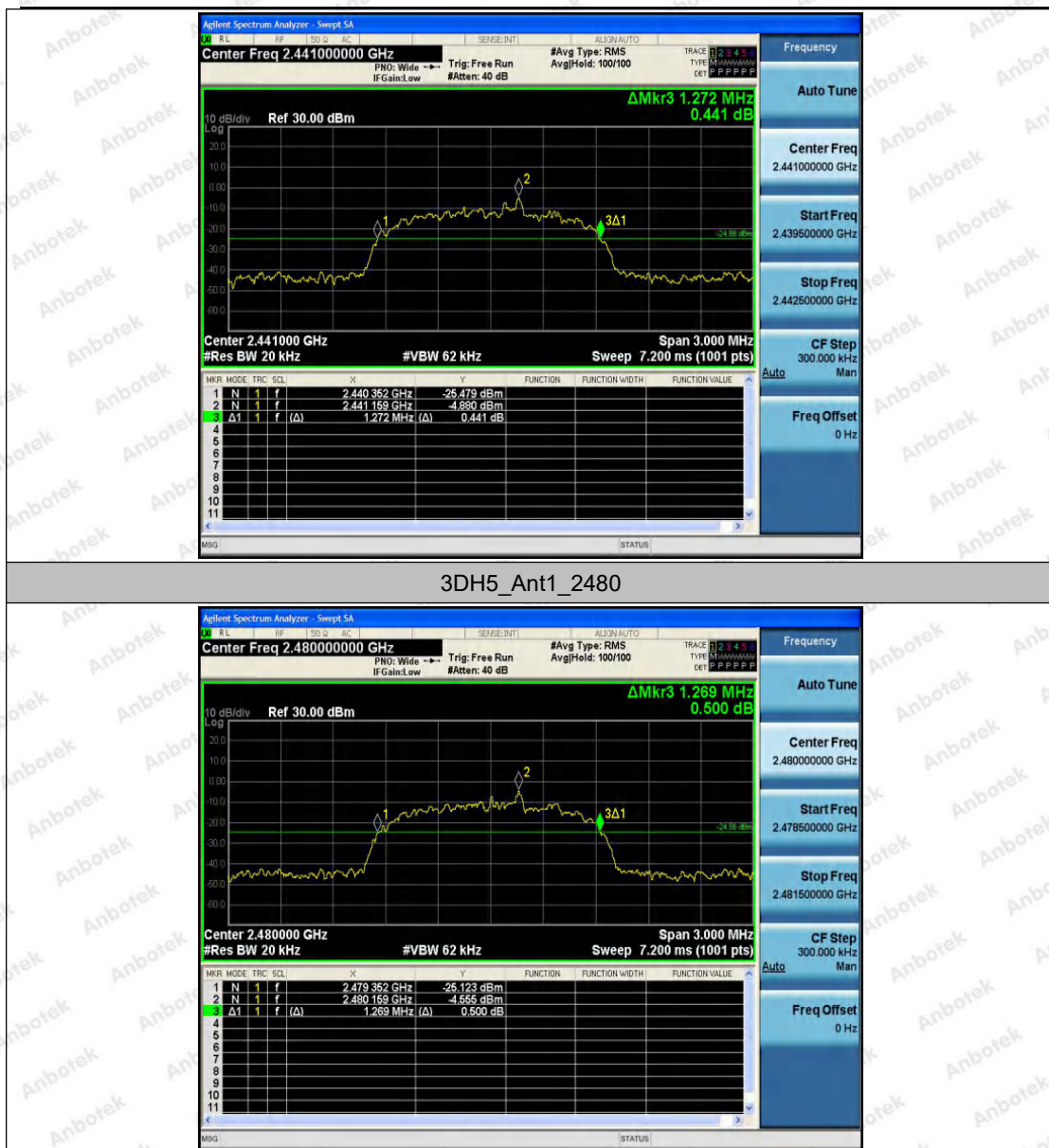
3DH5_Ant1_2441

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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	0.88356	2401.55 9	2402.443	---	PASS
		2441	0.87935	2440.56 0	2441.439	---	PASS
		2480	0.89215	2479.55 6	2480.448	---	PASS
2DH5	Ant1	2402	1.2057	2401.39 8	2402.604	---	PASS
		2441	1.1861	2440.40 7	2441.593	---	PASS
		2480	1.1886	2479.40 6	2480.595	---	PASS
3DH5	Ant1	2402	1.2144	2401.38 5	2402.599	---	PASS
		2441	1.2109	2440.38 7	2441.598	---	PASS
		2480	1.2025	2479.39 4	2480.597	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



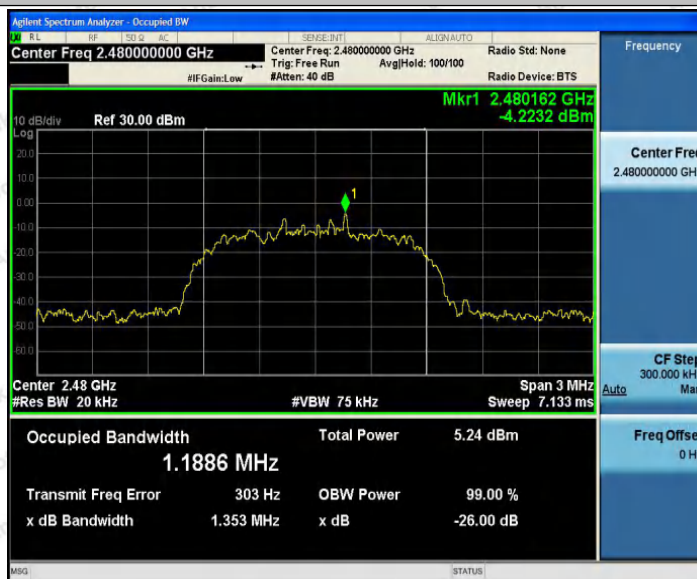
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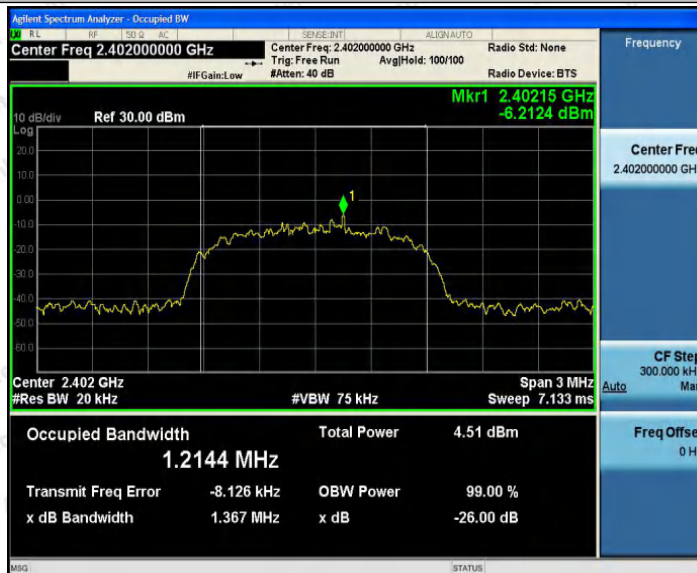
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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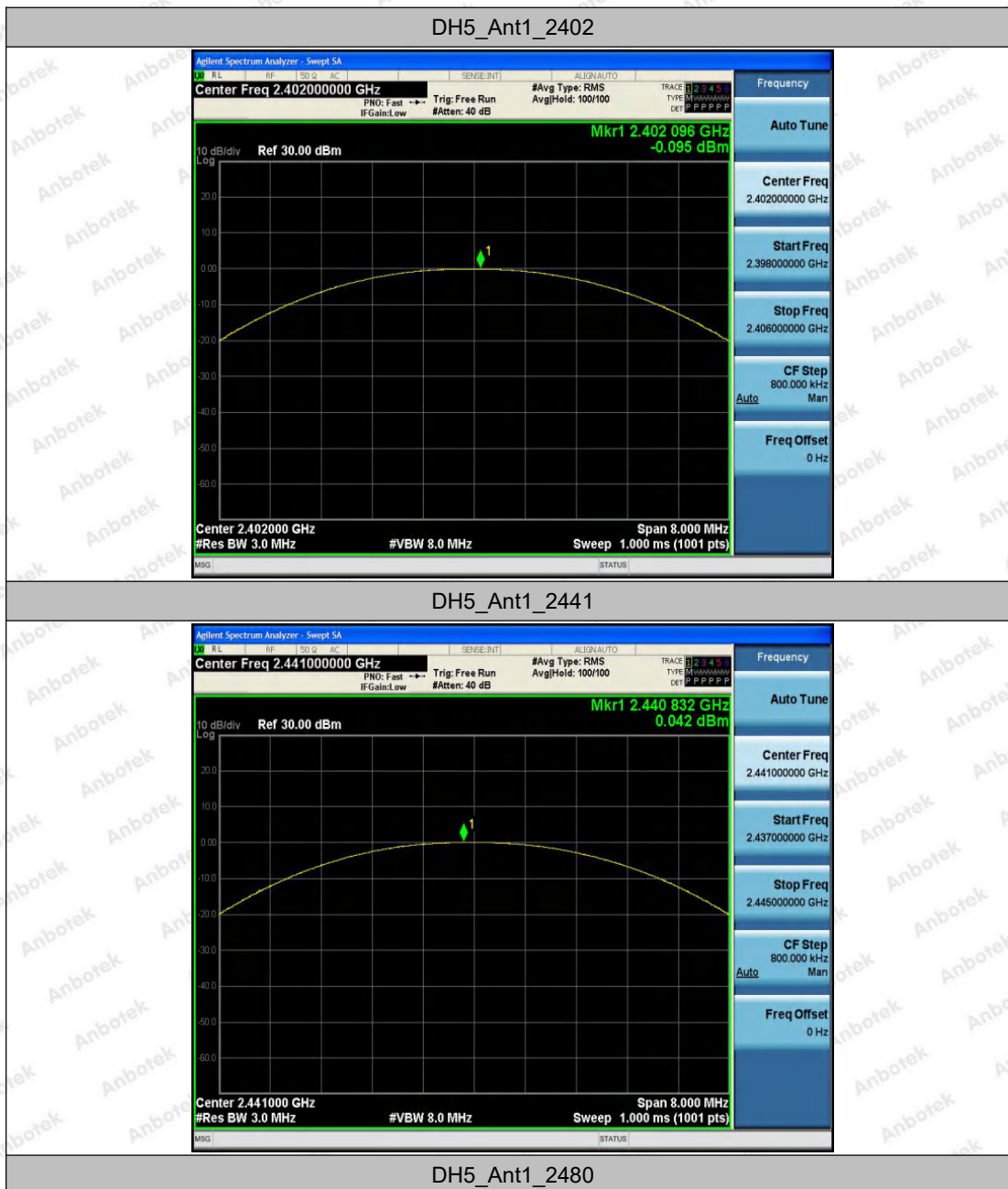
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.1	≤20.97	PASS
		2441	0.04	≤20.97	PASS
		2480	0.57	≤20.97	PASS
2DH5	Ant1	2402	-0.45	≤20.97	PASS
		2441	-0.65	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
3DH5	Ant1	2402	-0.36	≤20.97	PASS
		2441	-0.53	≤20.97	PASS
		2480	0	≤20.97	PASS

Test Graphs

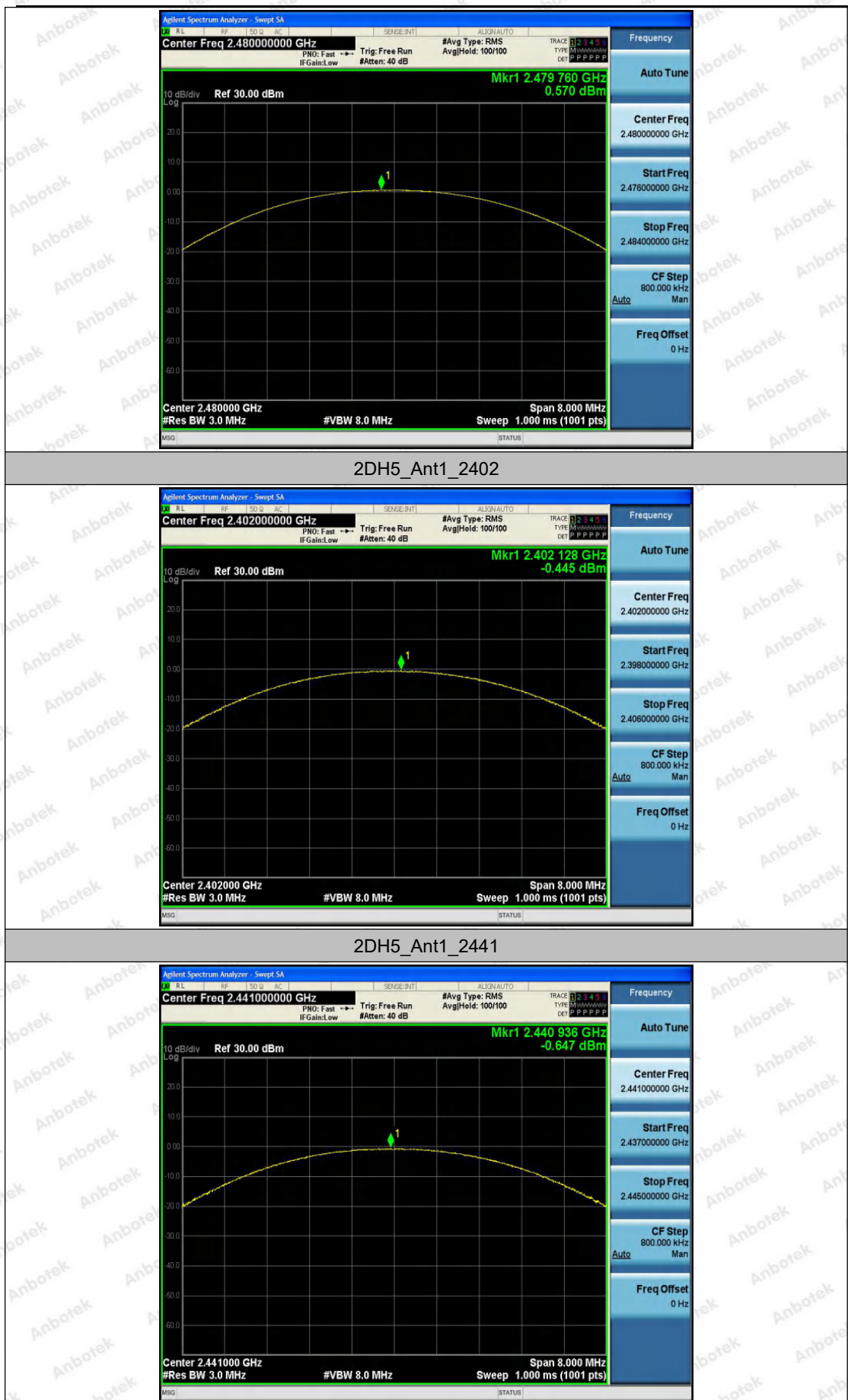


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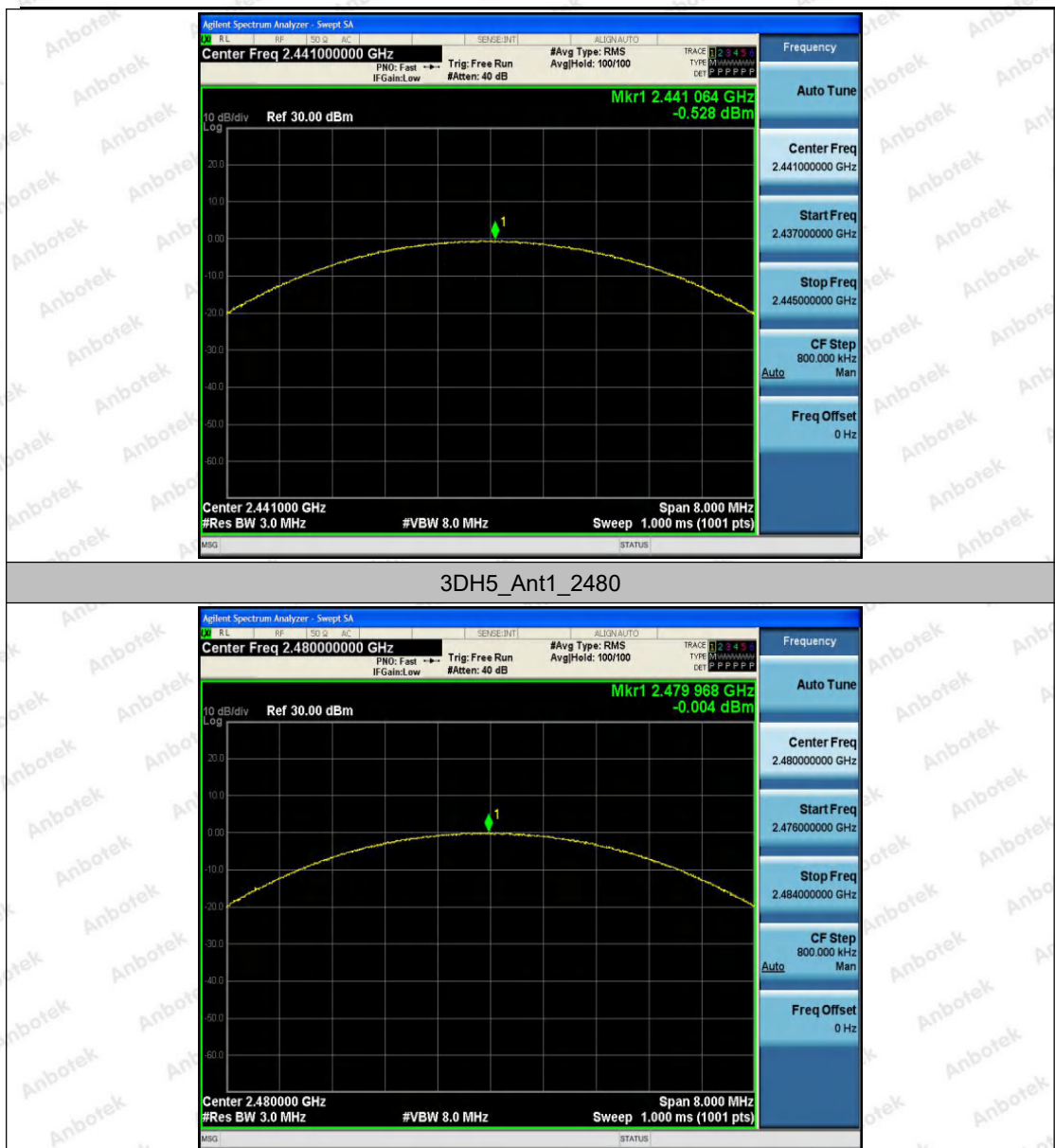
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.945	PASS
2DH5	Ant1	Hop	1.02	≥ 0.890	PASS
3DH5	Ant1	Hop	0.966	≥ 0.848	PASS

Test Graphs



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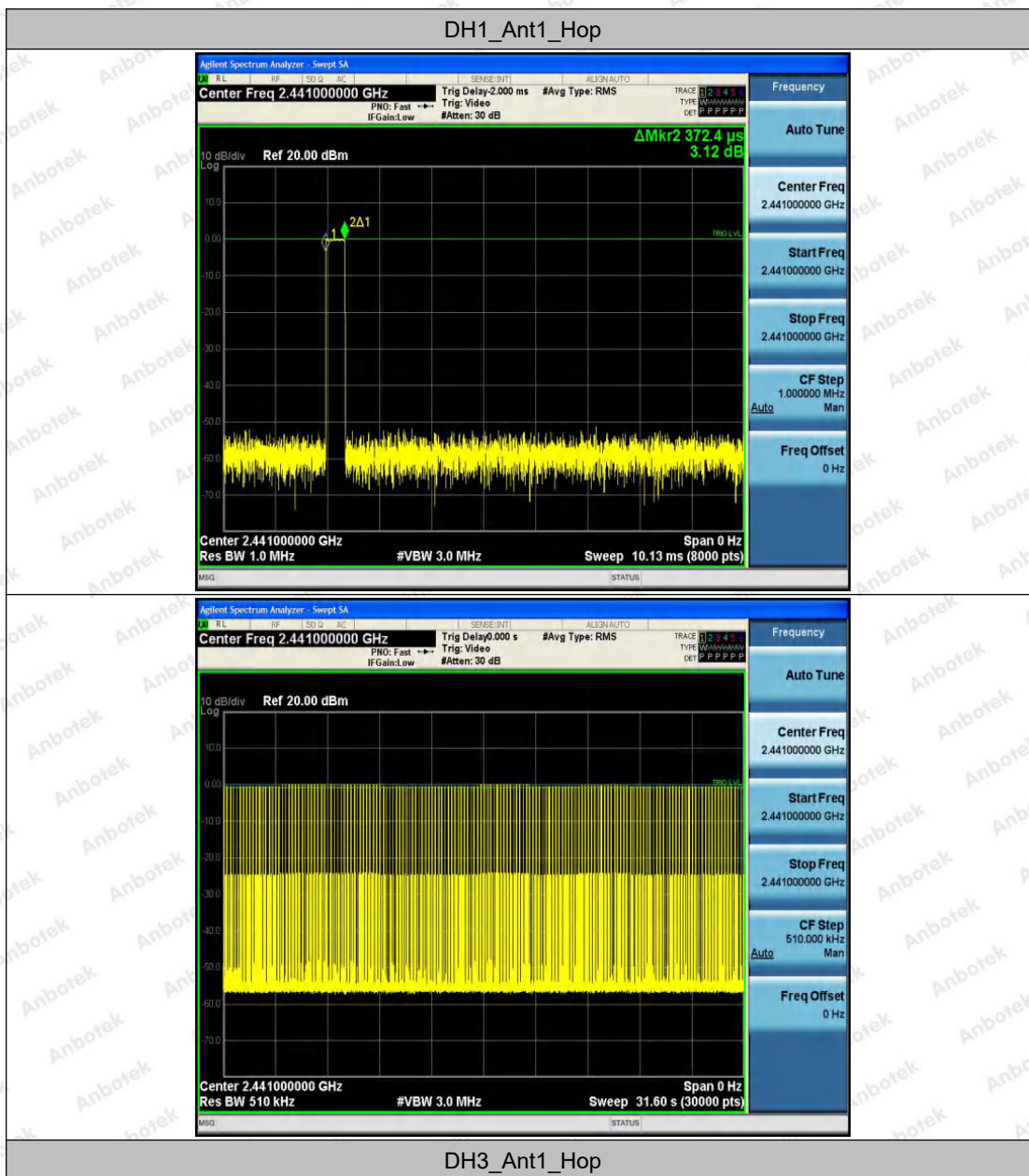
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.299	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	103	0.297	≤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	108	0.311	≤0.4	PASS

Test Graphs



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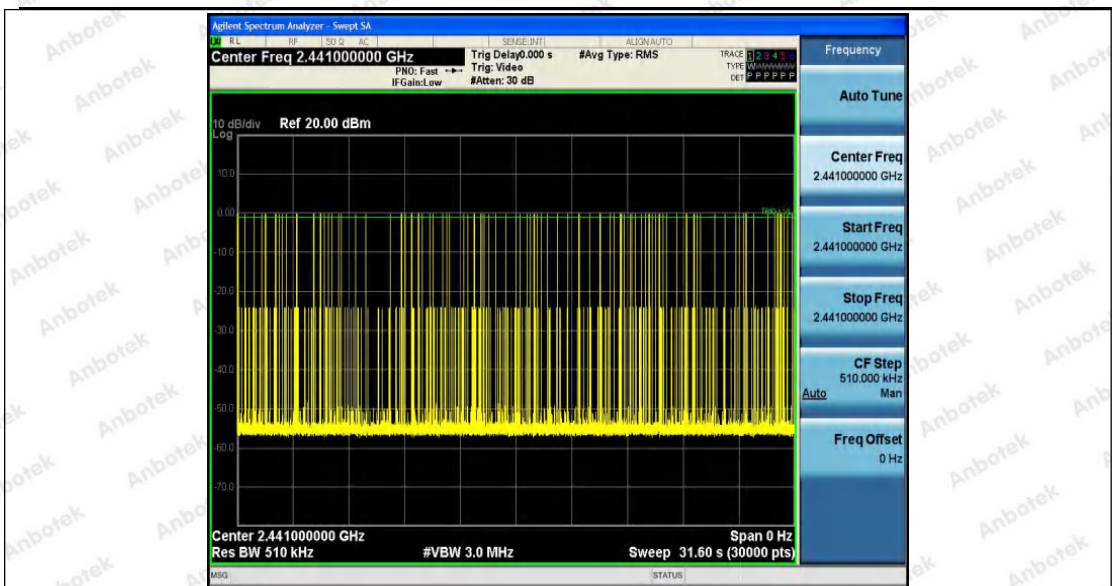


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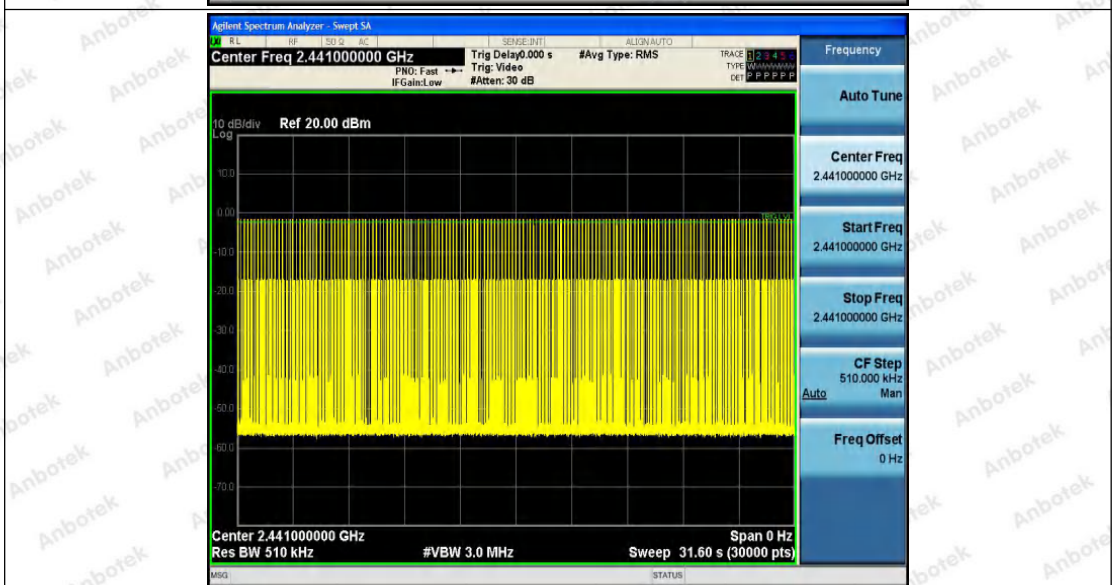
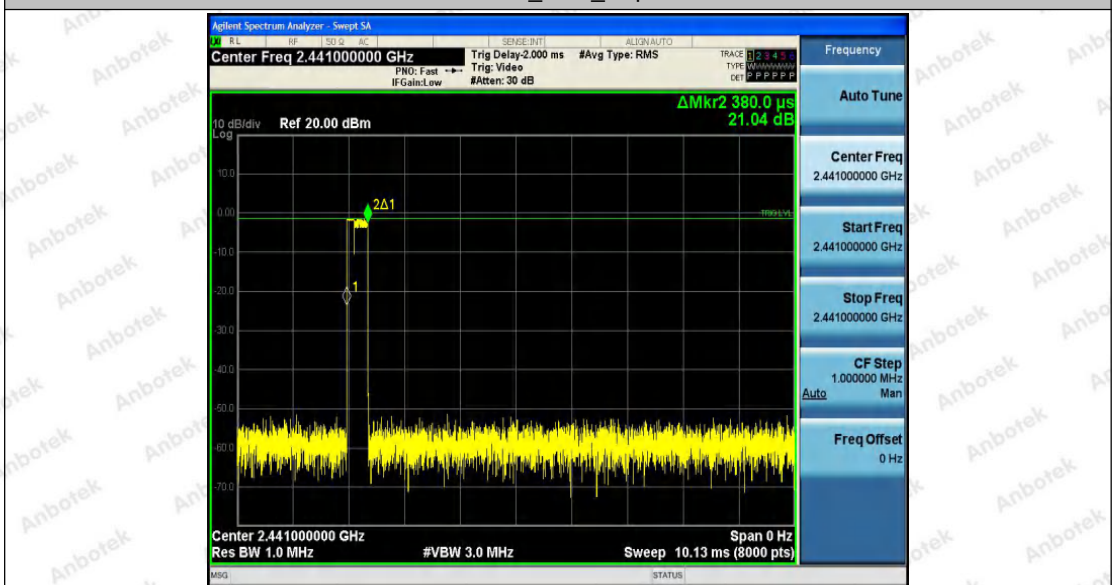
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2DH1_Ant1_Hop



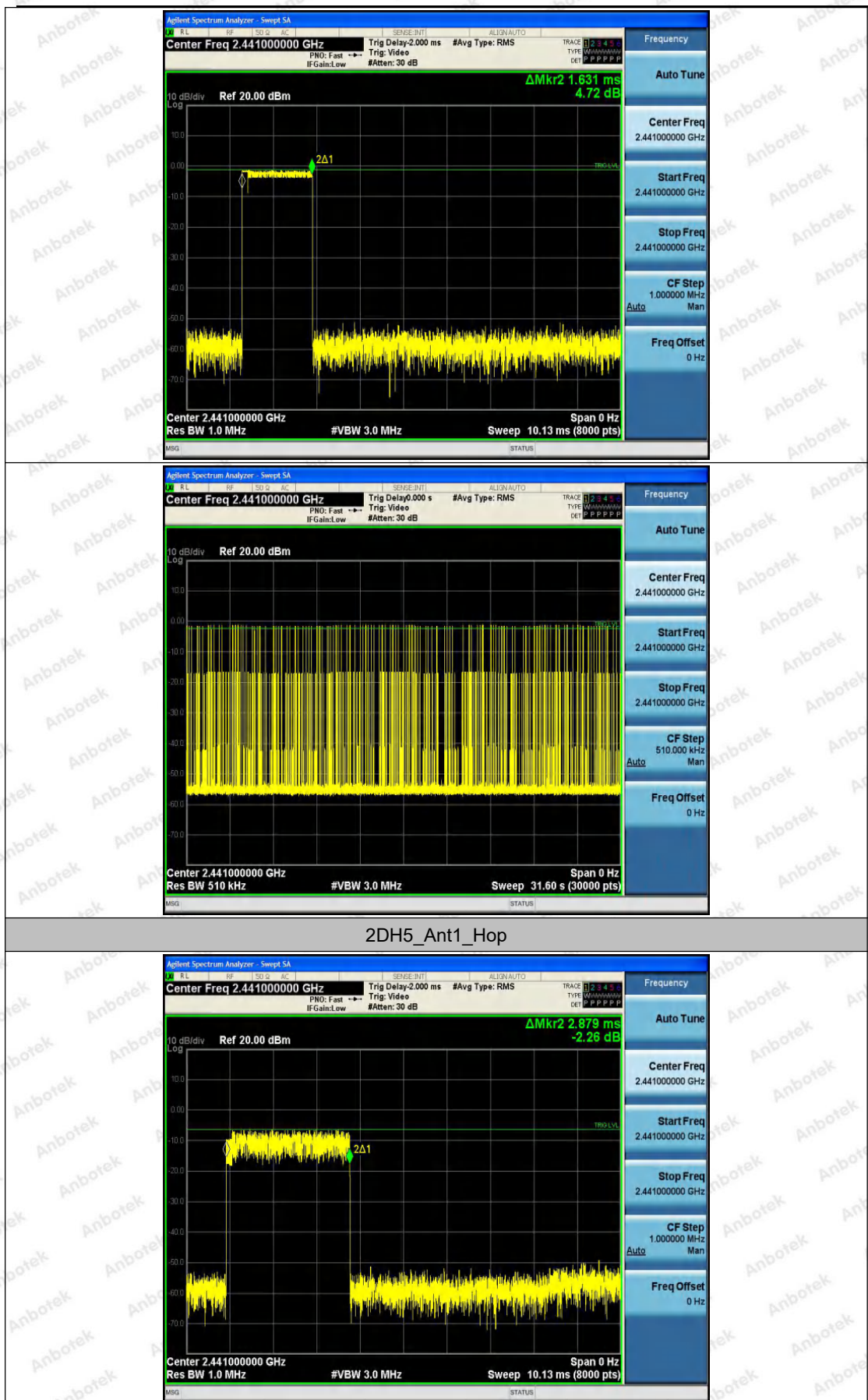
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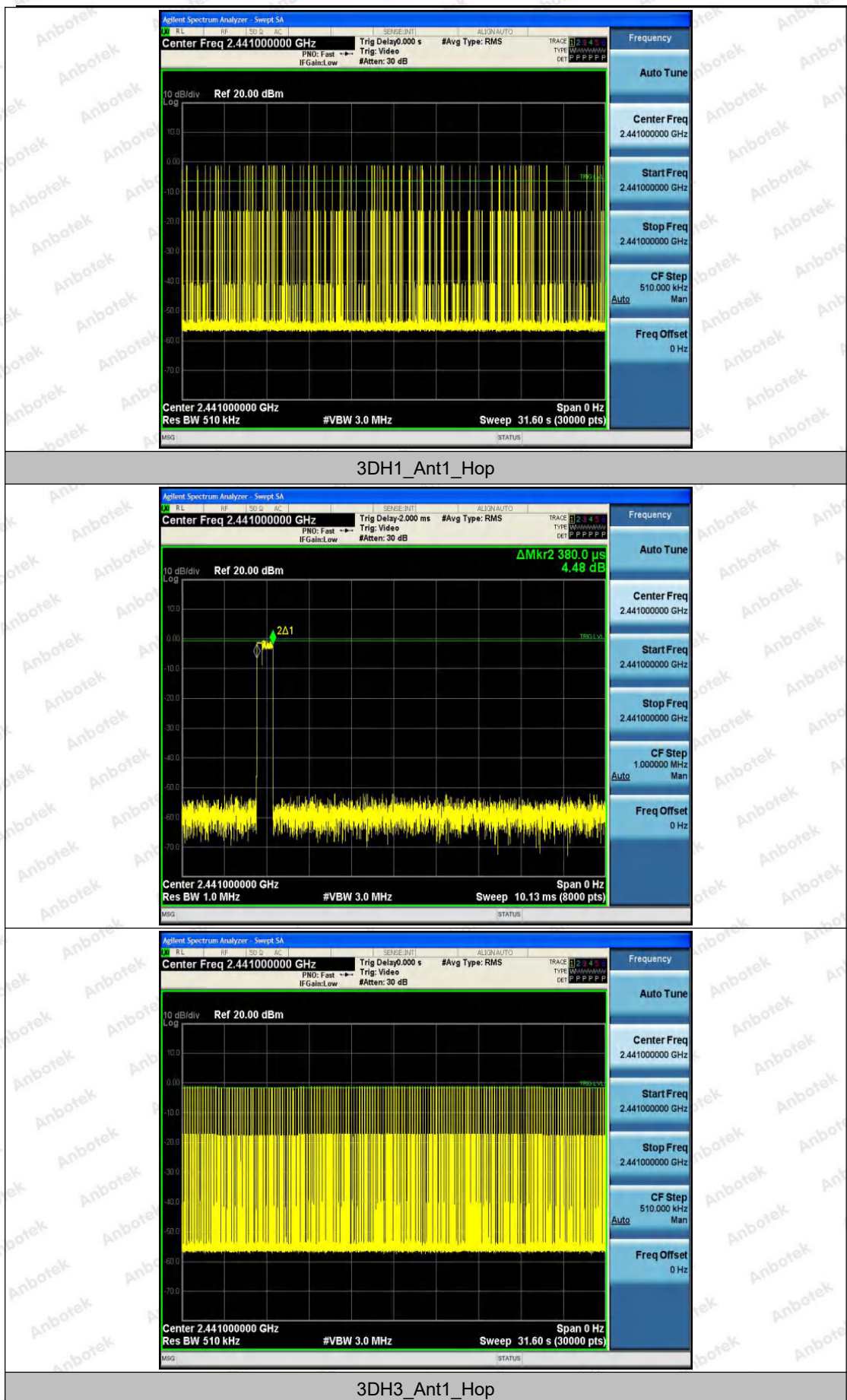


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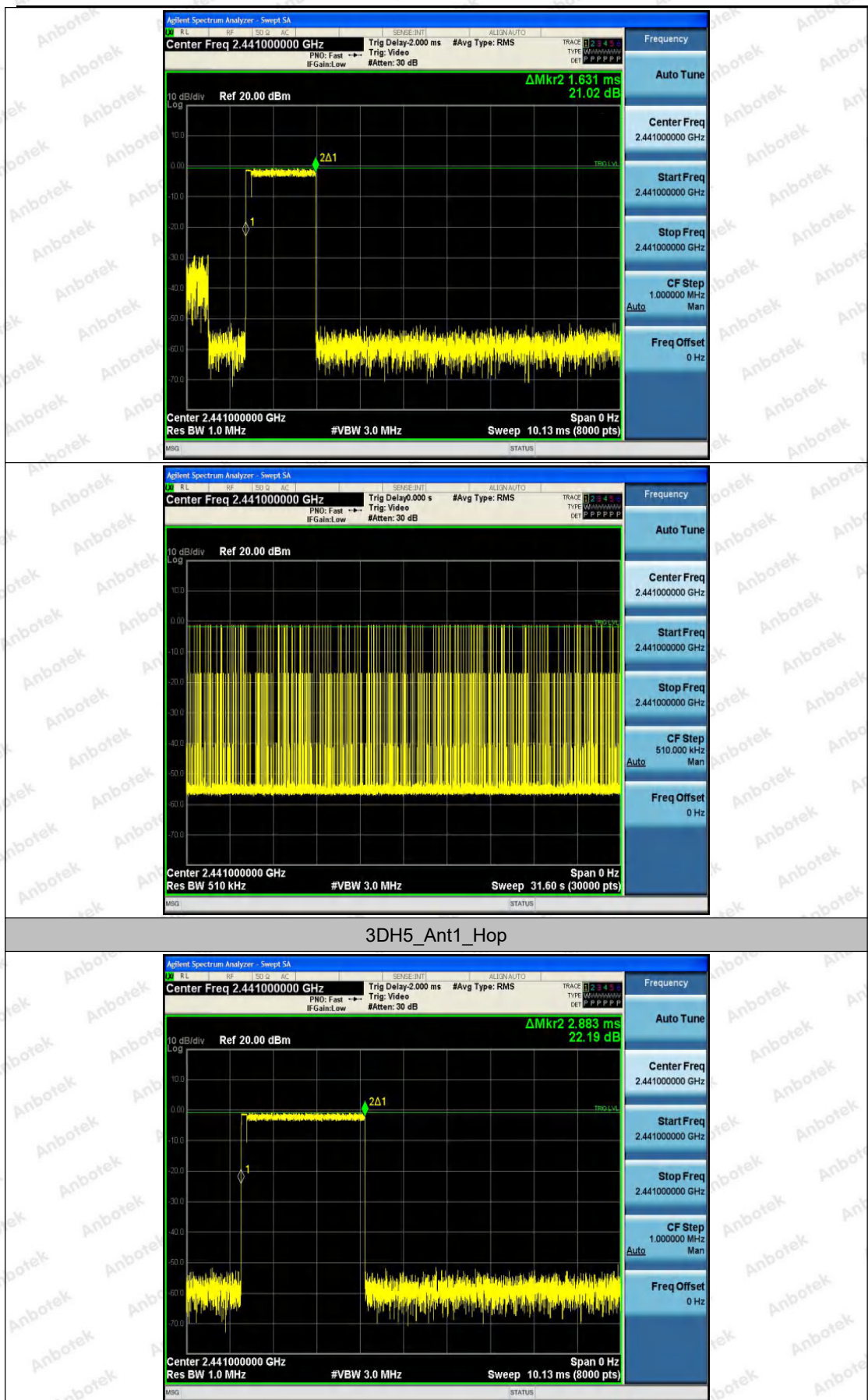
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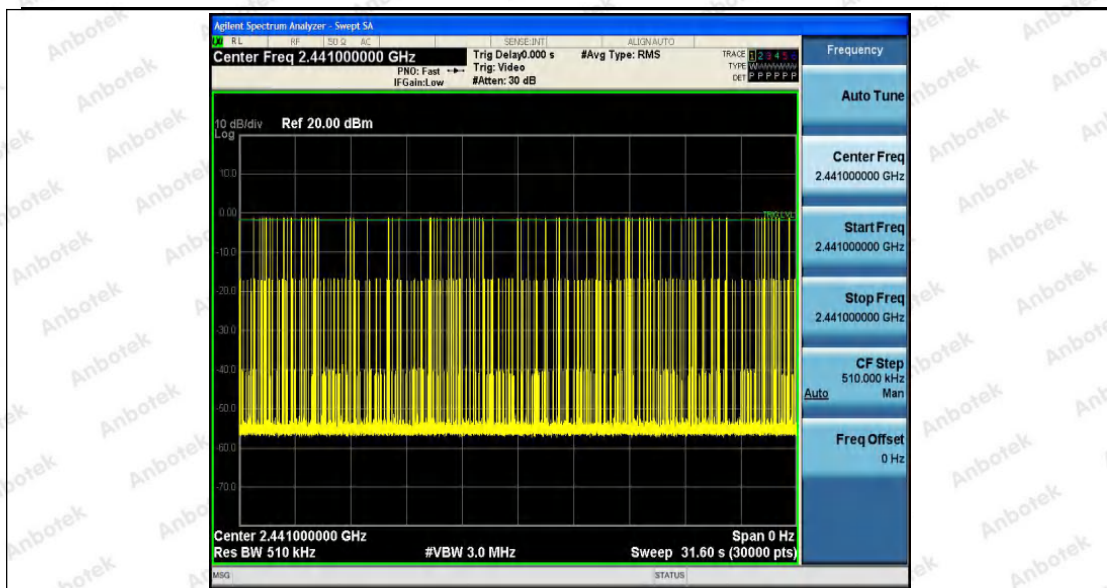


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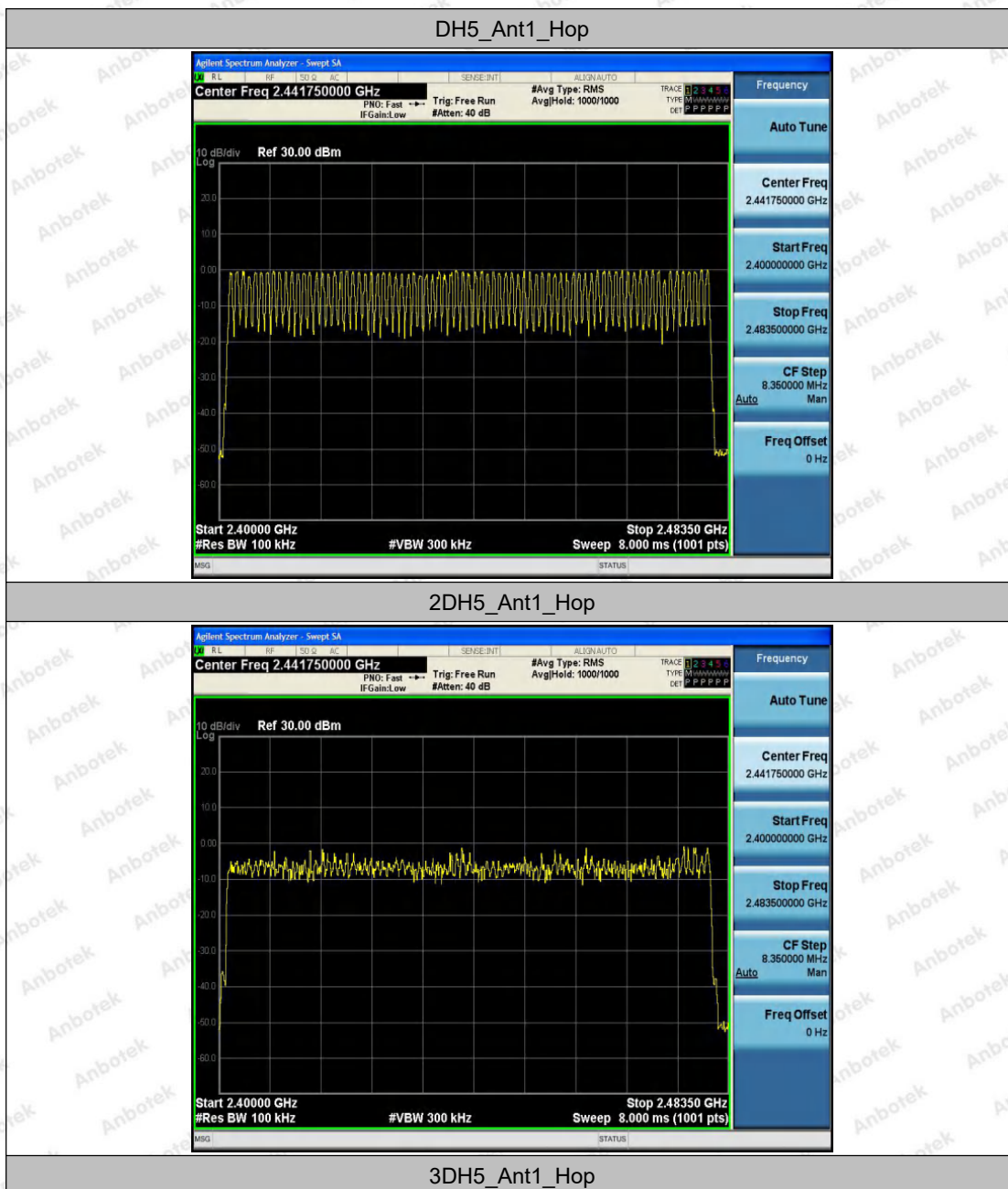
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Appendix F: Number of hopping channels

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

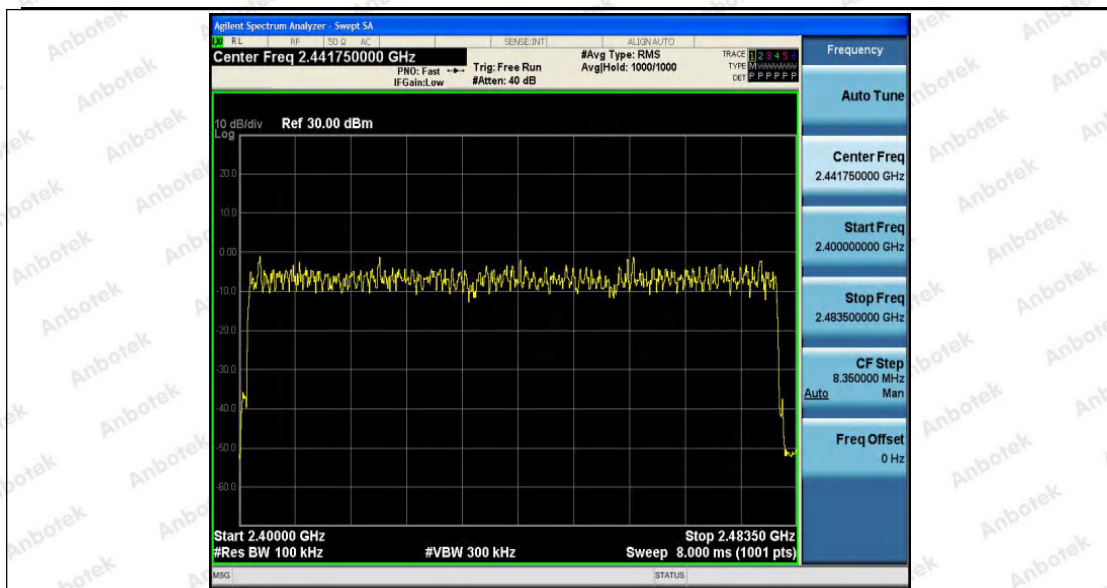


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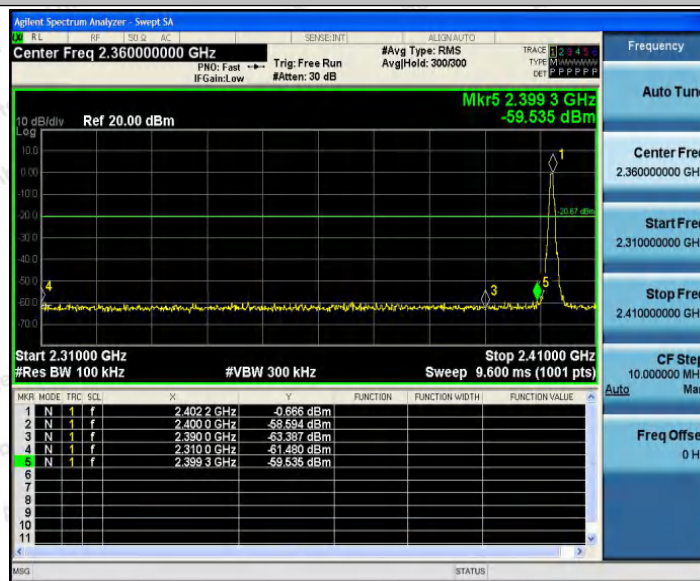
Appendix G: Band edge measurements

Test Result

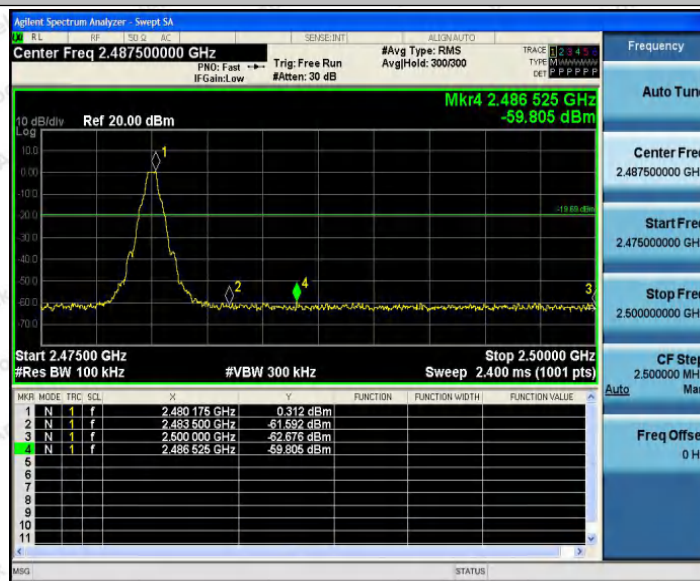
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.67	-59.54	≤-20.67	PASS
		High	2480	0.31	-59.81	≤-19.69	PASS
		Low	Hop	-0.43	-60.07	≤-20.43	PASS
		High	Hop	-0.11	-62.53	≤-20.11	PASS
2DH5	Ant1	Low	2402	-1.26	-57.01	≤-21.26	PASS
		High	2480	-1.23	-58.76	≤-21.23	PASS
		Low	Hop	-3.50	-60.11	≤-23.5	PASS
		High	Hop	-1.95	-62.7	≤-21.95	PASS
3DH5	Ant1	Low	2402	-1.77	-56.85	≤-21.77	PASS
		High	2480	-0.98	-59.24	≤-20.98	PASS
		Low	Hop	-1.99	-59.85	≤-21.99	PASS
		High	Hop	-4.65	-61.84	≤-24.65	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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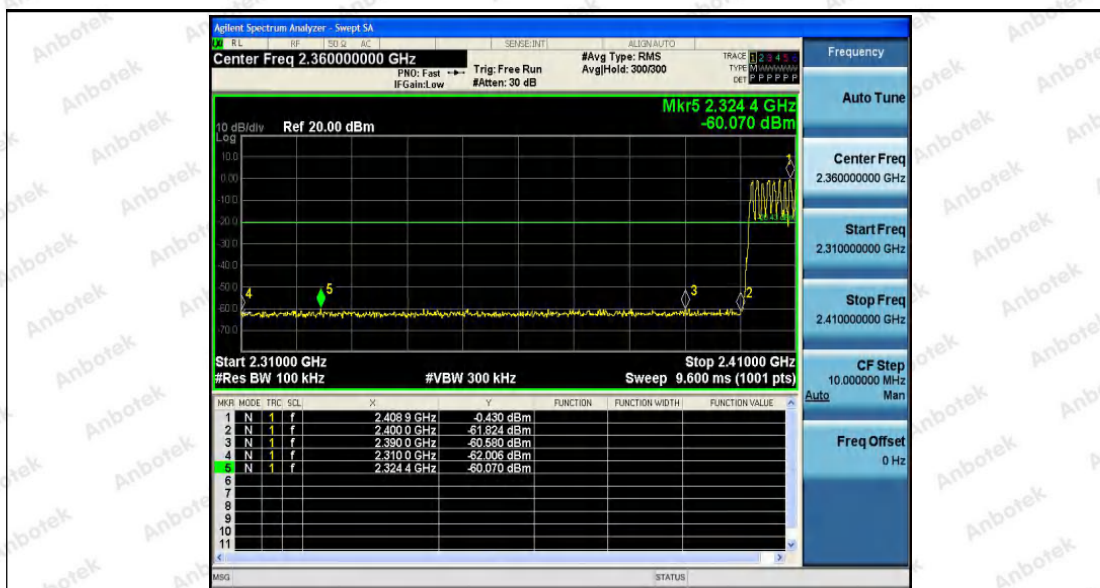
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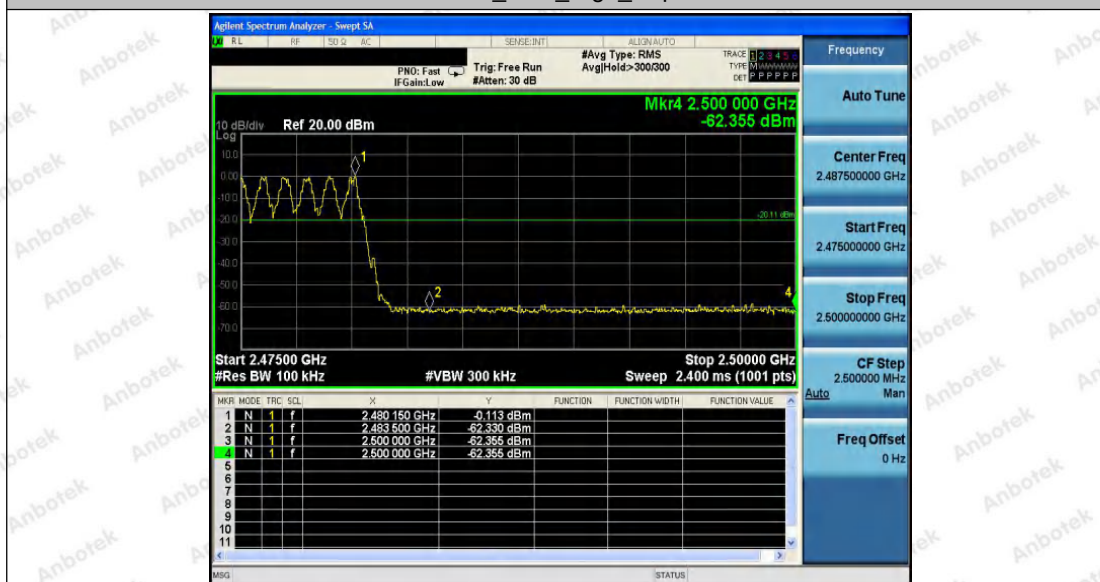
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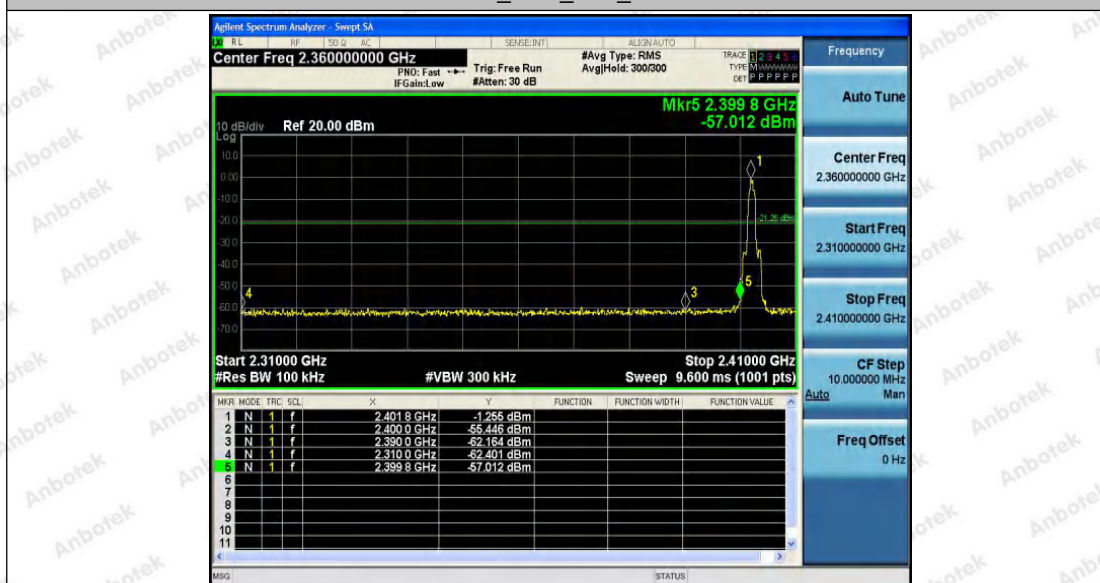
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



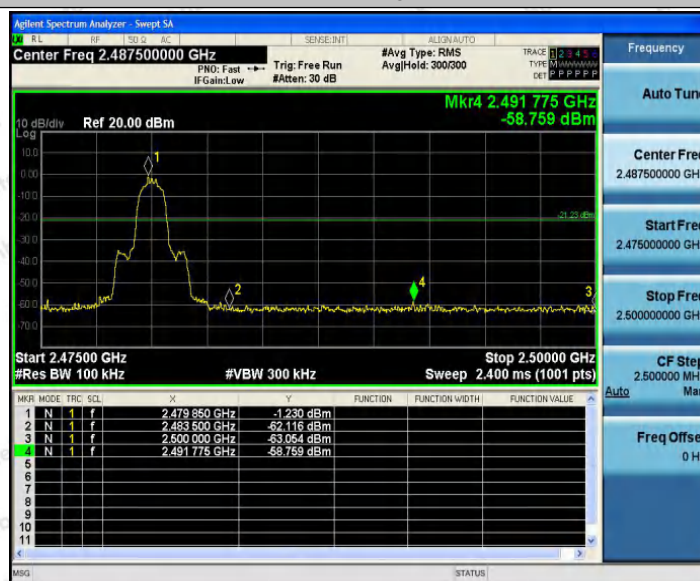
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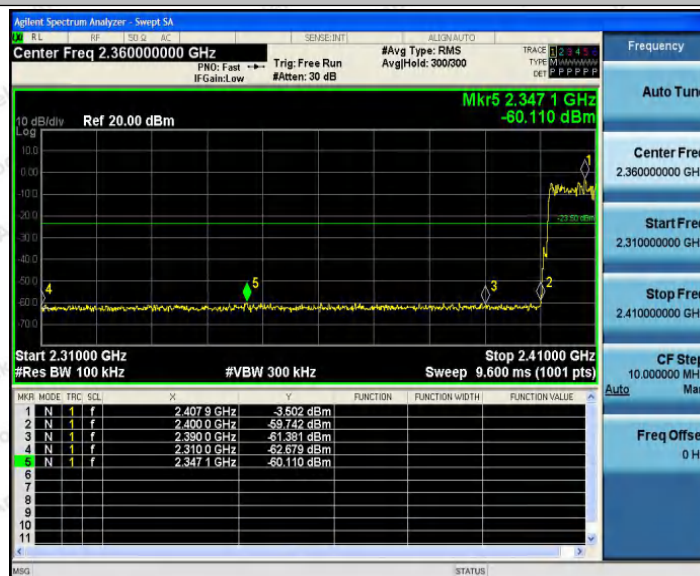
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



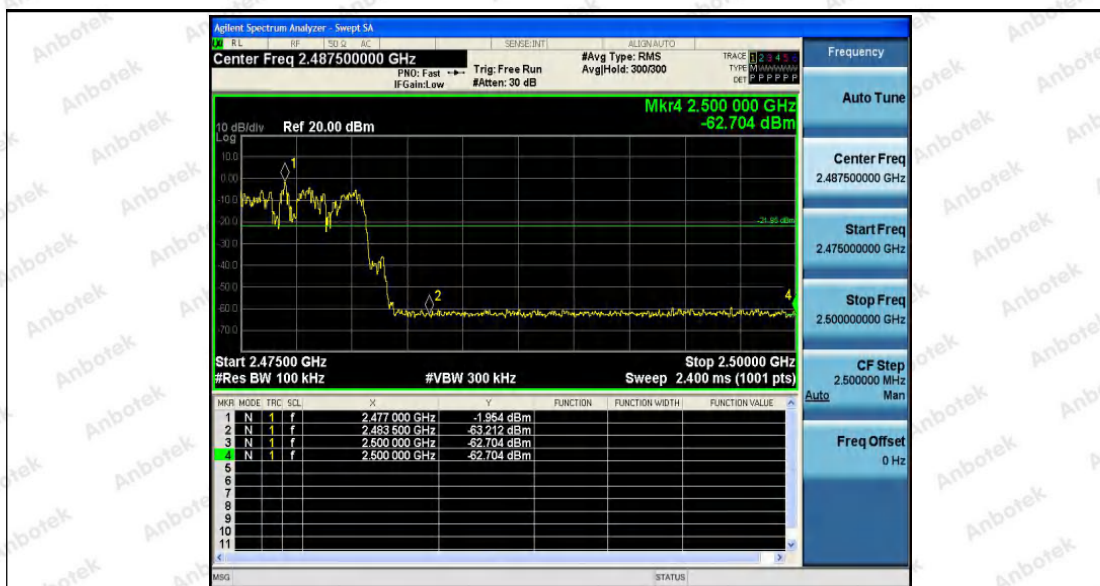
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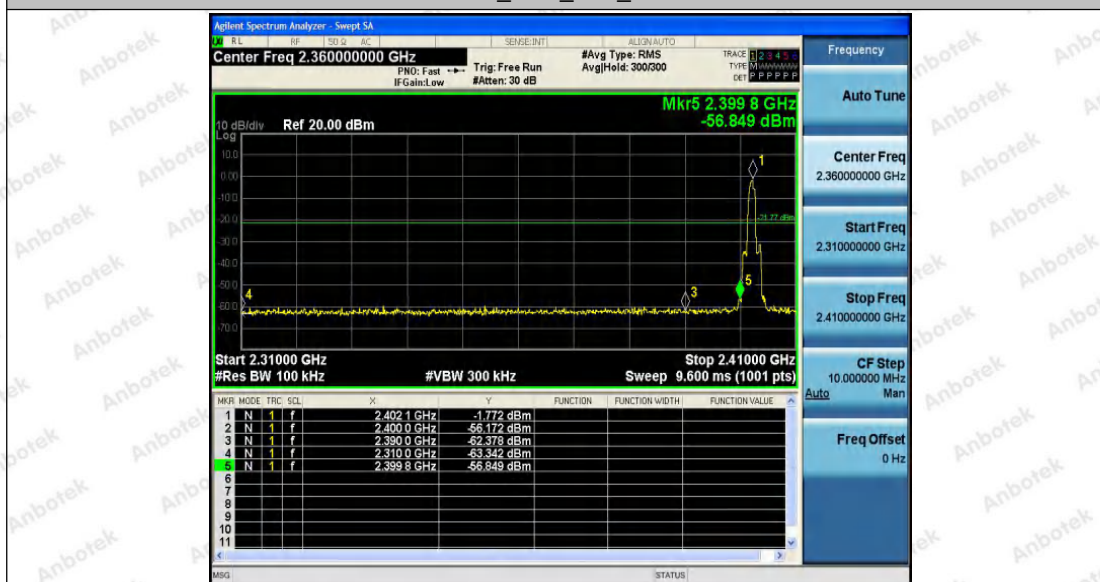
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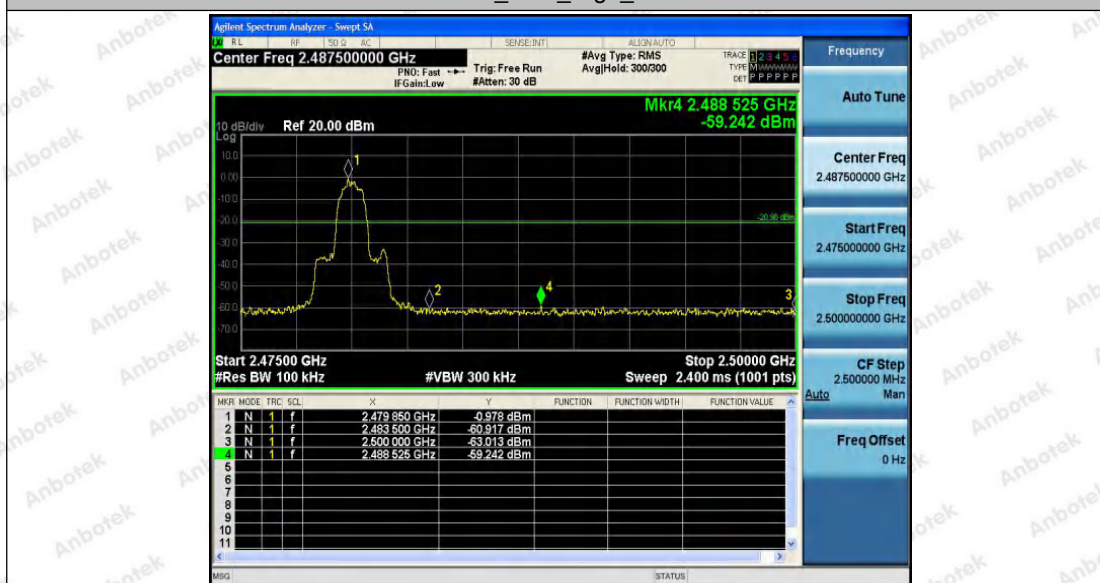
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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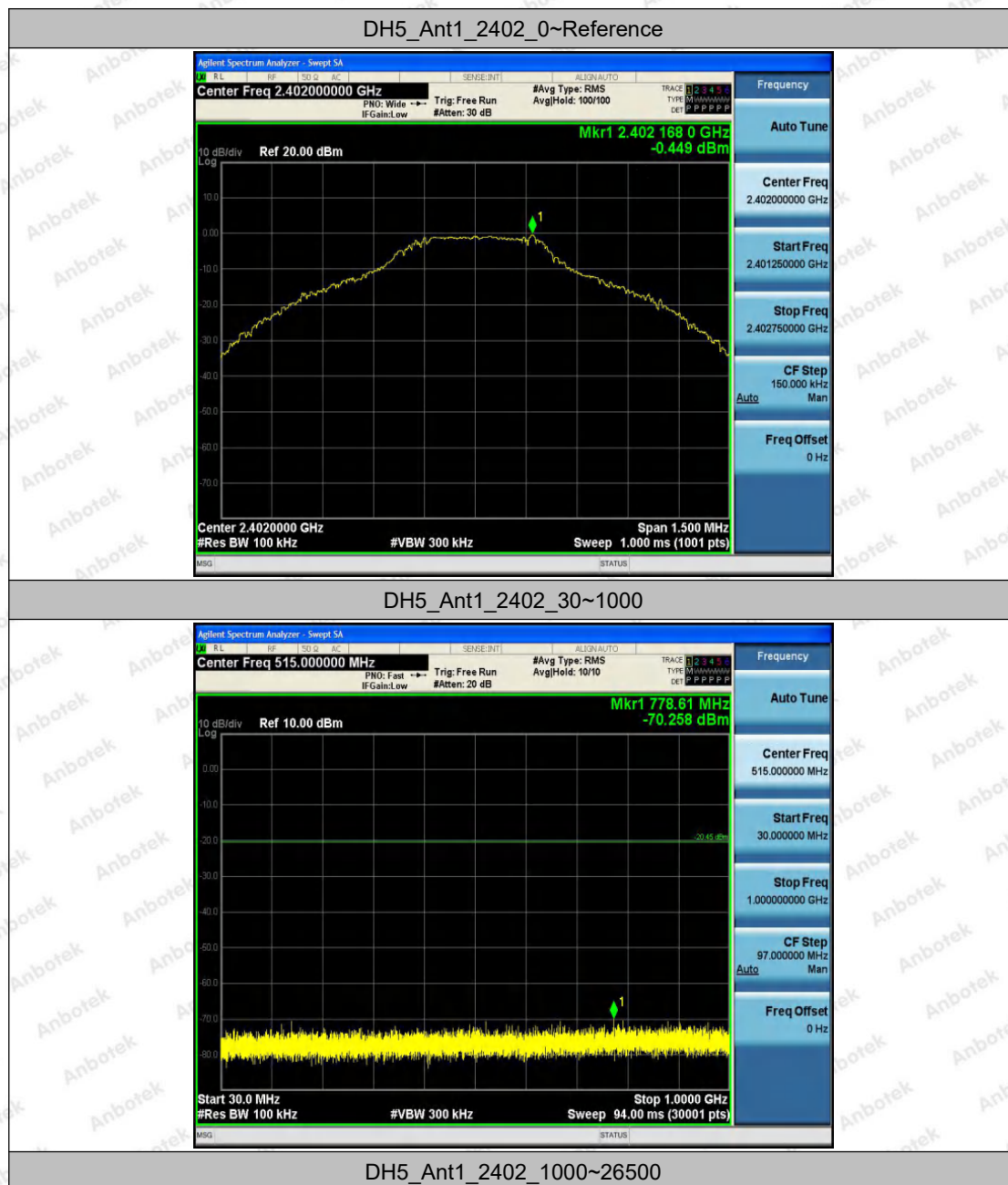
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-70.26	≤-20.45	PASS
			1000~26500	-0.45	-55.38	≤-20.45	PASS
		2441	Reference	-0.36	-0.36	---	PASS
			30~1000	-0.36	-70.39	≤-20.36	PASS
			1000~26500	-0.36	-55.52	≤-20.36	PASS
		2480	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-70.64	≤-20.2	PASS
			1000~26500	-0.20	-55.47	≤-20.2	PASS
2DH5	Ant1	2402	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-70.33	≤-21.68	PASS
			1000~26500	-1.68	-55.67	≤-21.68	PASS
		2441	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-69.93	≤-21.85	PASS
			1000~26500	-1.85	-55.44	≤-21.85	PASS
		2480	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-70.74	≤-21.32	PASS
			1000~26500	-1.32	-54.91	≤-21.32	PASS
3DH5	Ant1	2402	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-70.46	≤-21.27	PASS
			1000~26500	-1.27	-55.91	≤-21.27	PASS
		2441	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-70.3	≤-21.39	PASS
			1000~26500	-1.39	-54.74	≤-21.39	PASS
		2480	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-70.79	≤-21.12	PASS
			1000~26500	-1.12	-54.56	≤-21.12	PASS

Test Graphs

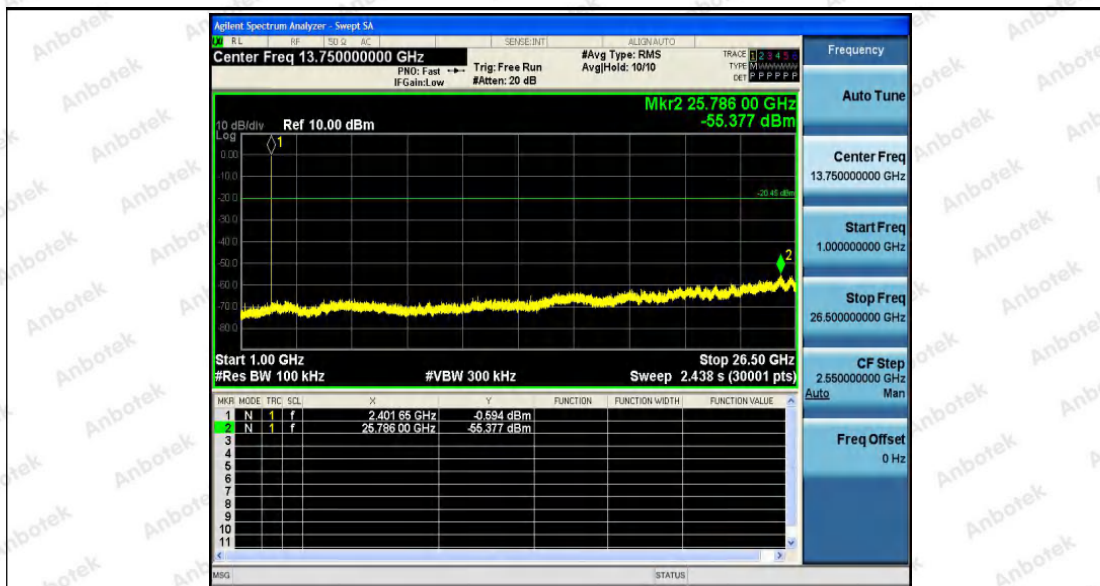


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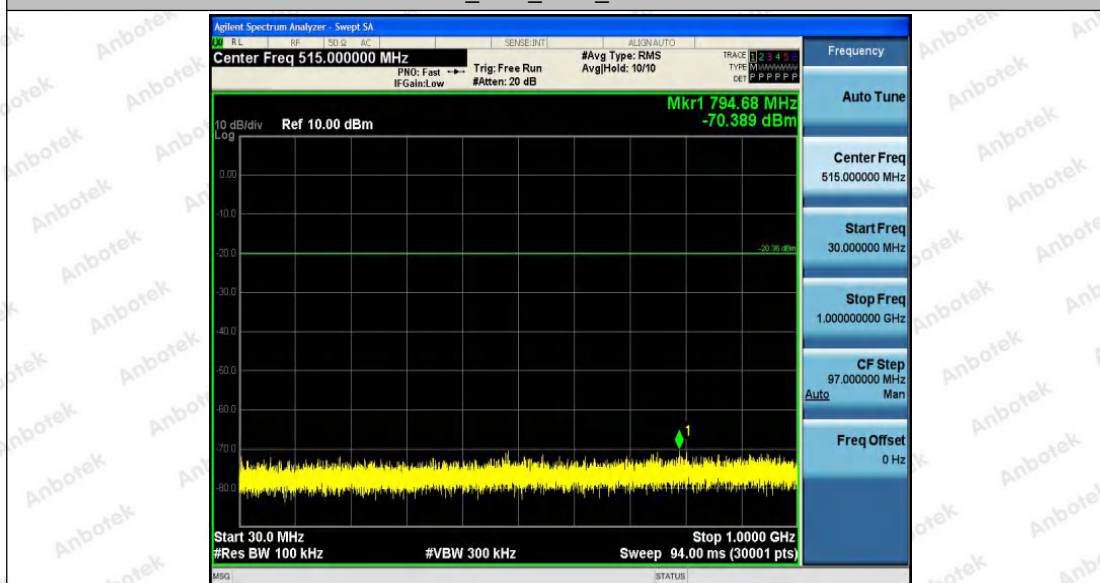
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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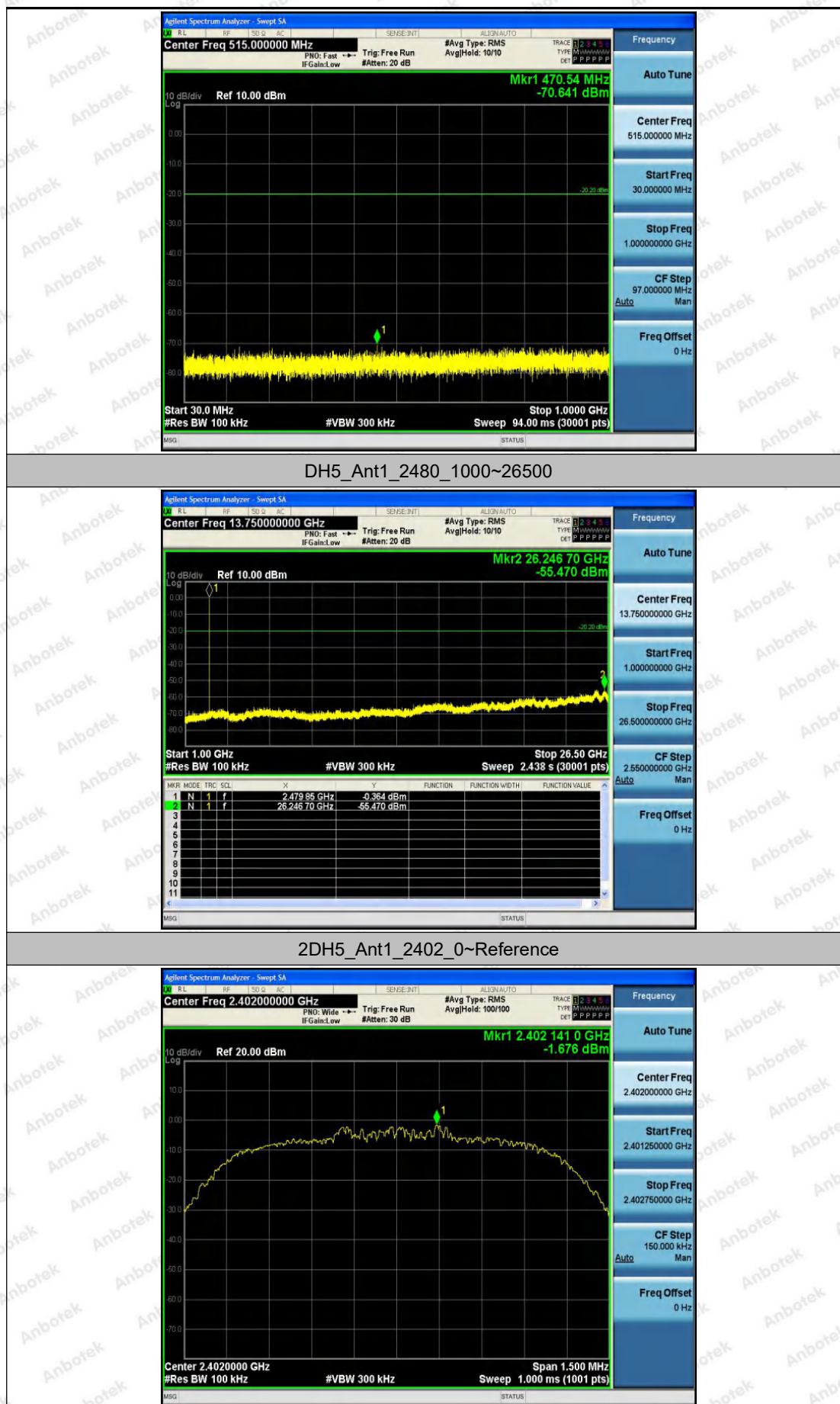
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DH5 Ant1 2480 0~Reference



DH5	Ant1	2480	30~1000
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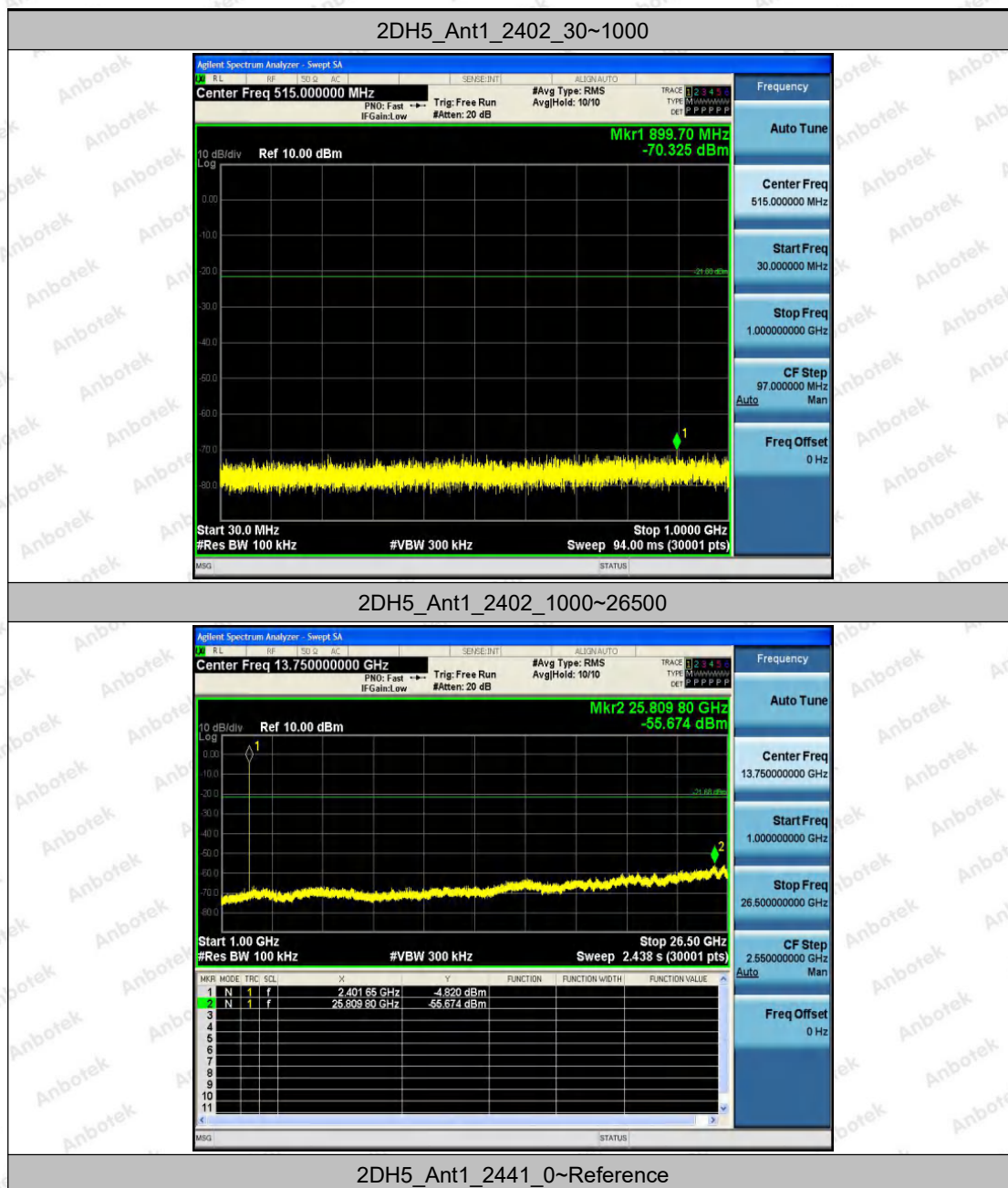


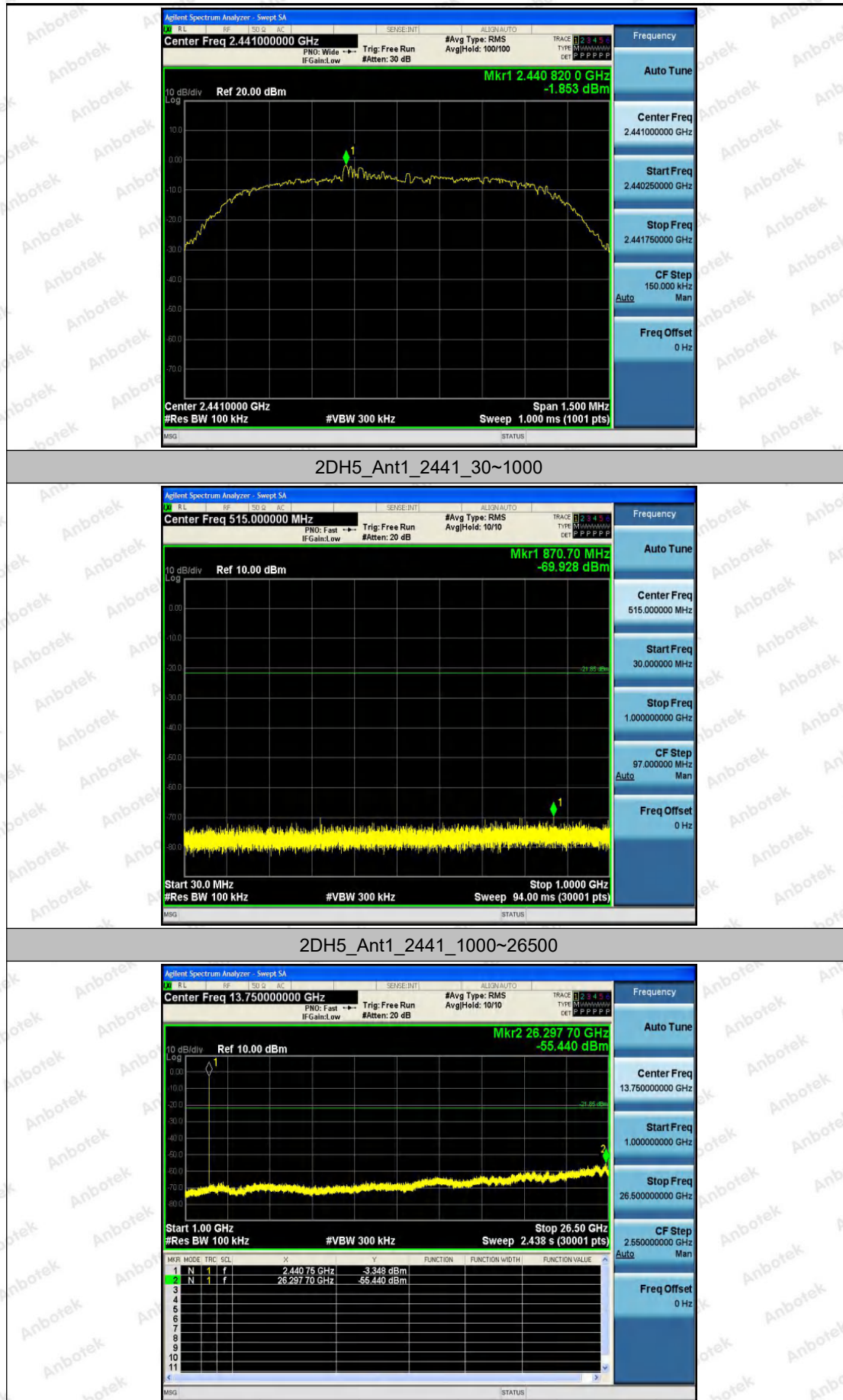
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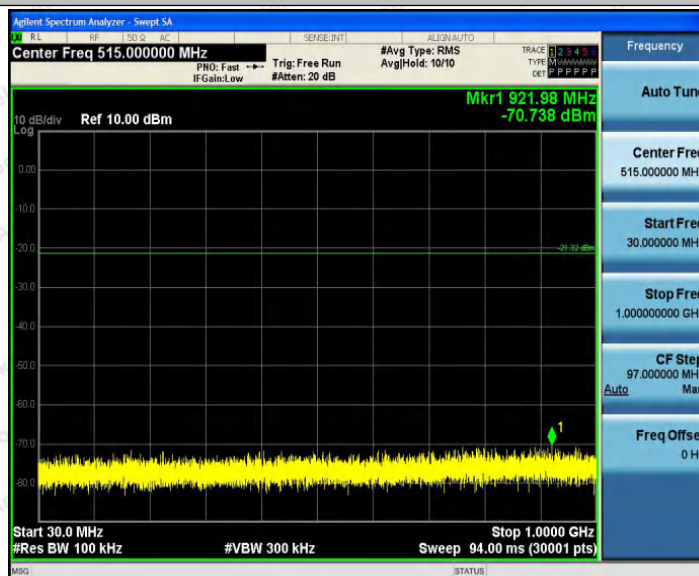
400-003-0500

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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



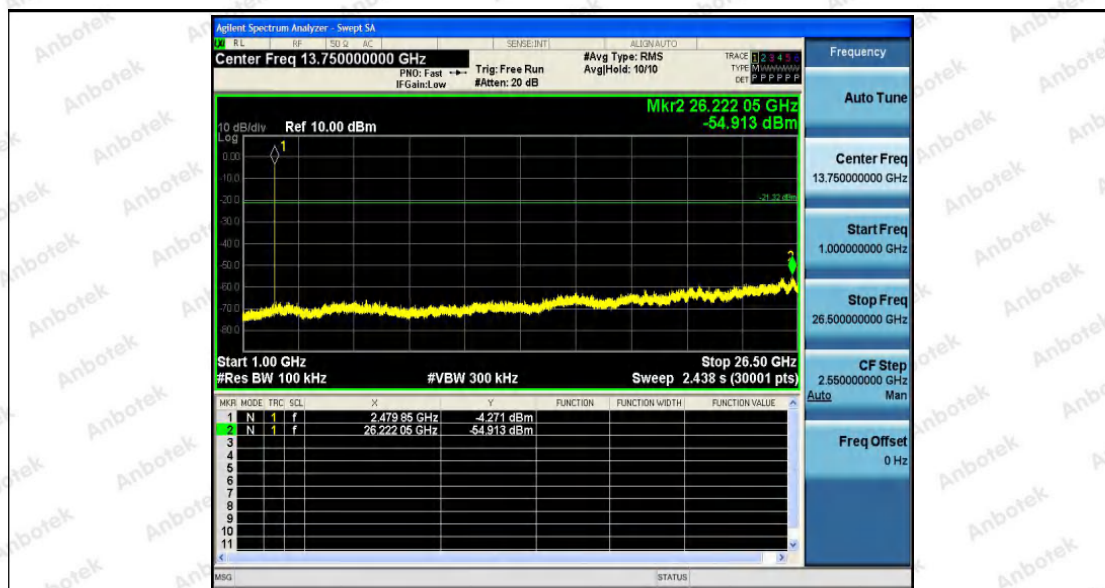
2DH5_Ant1_2480_1000~26500

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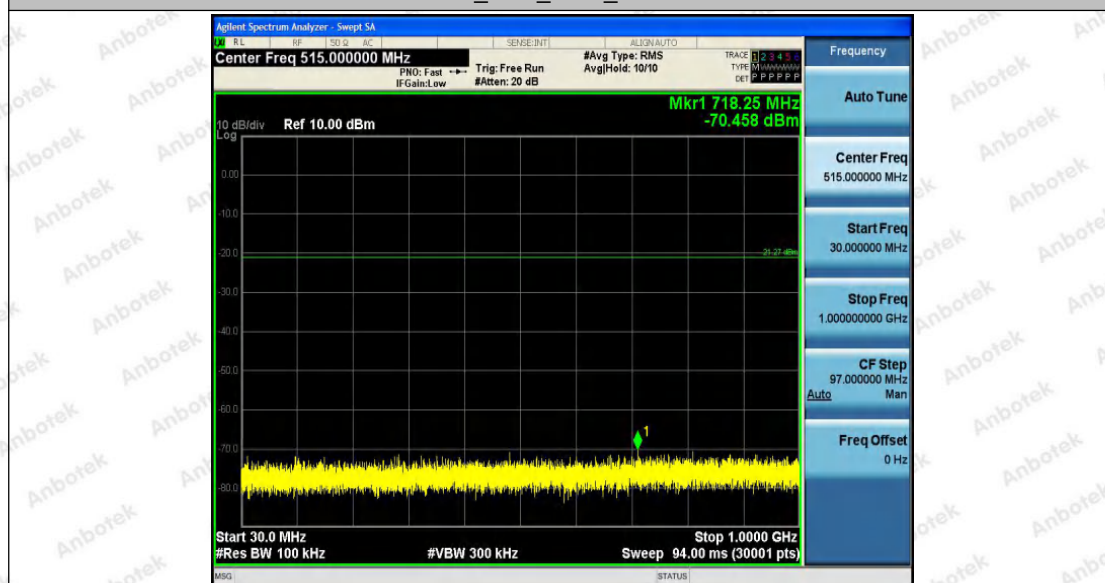
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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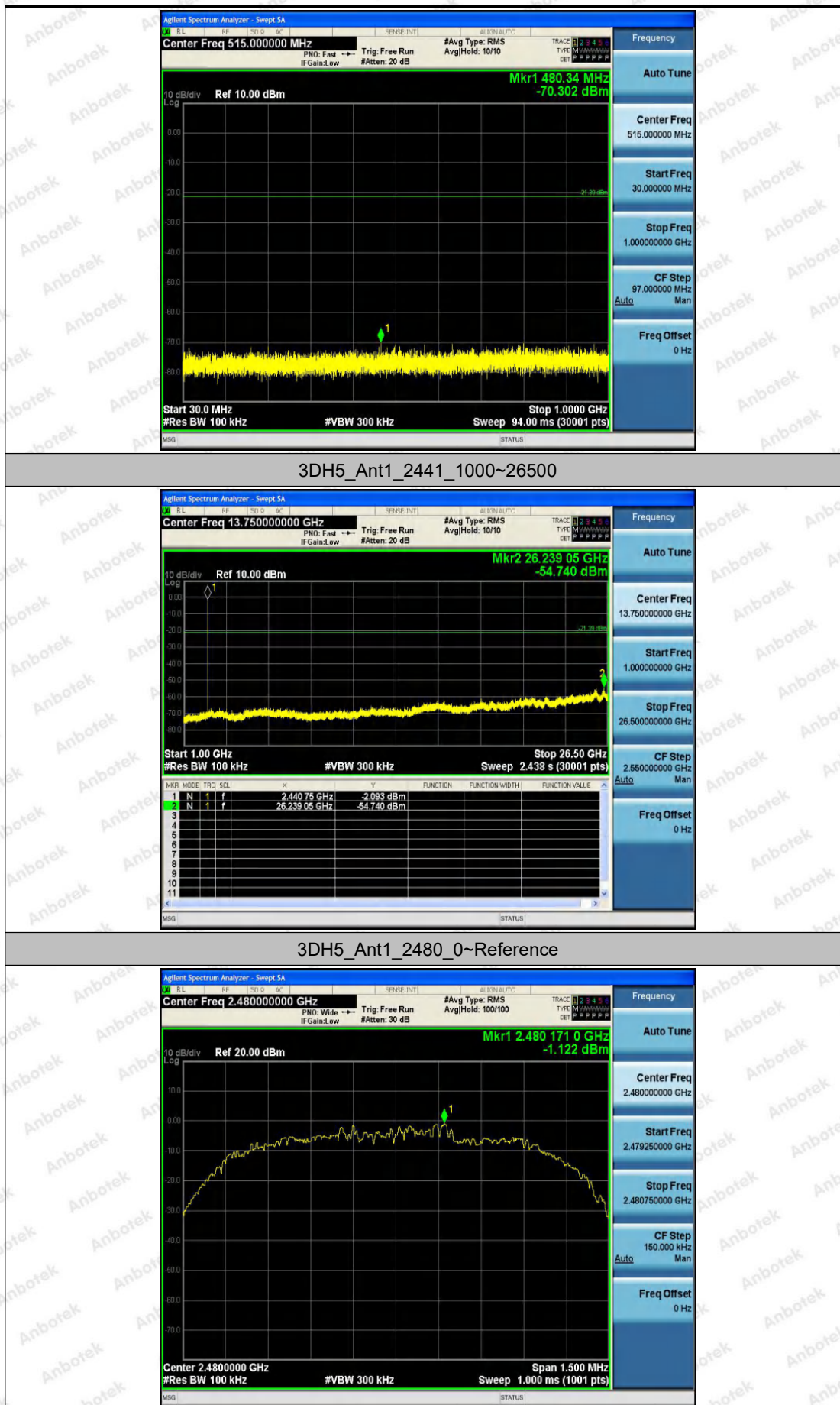
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

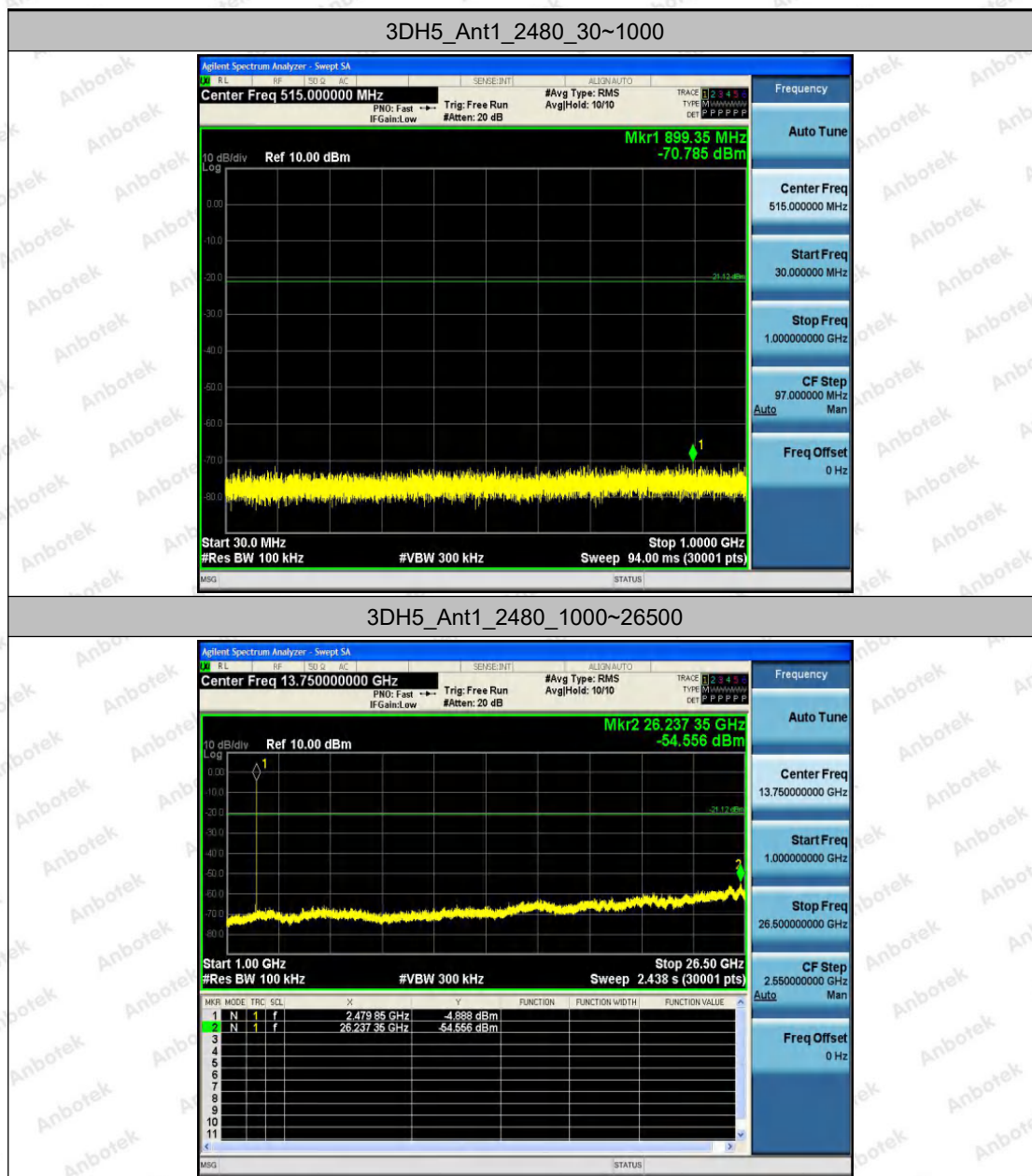


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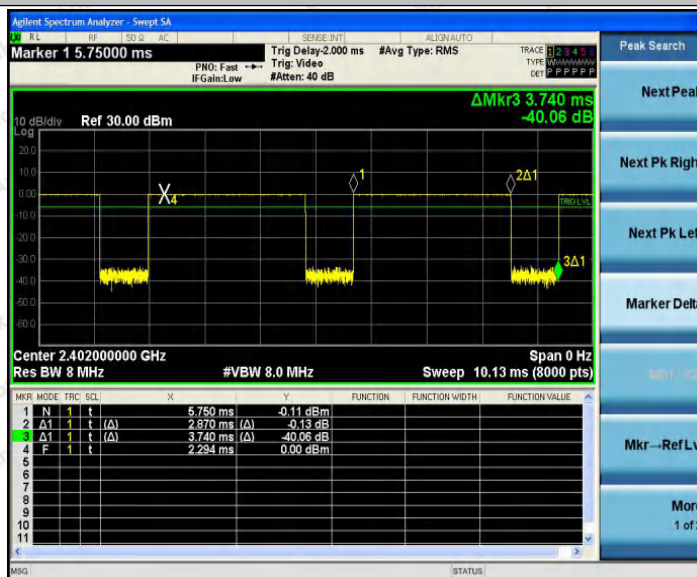
Appendix I: Duty Cycle

Test Result

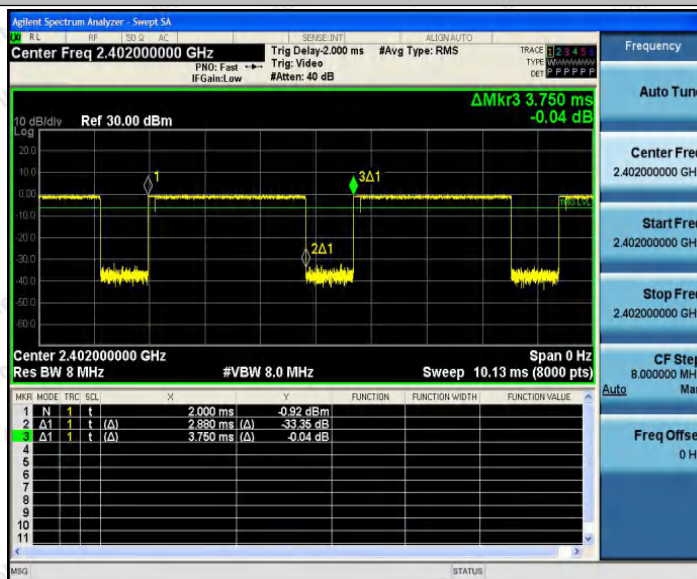
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

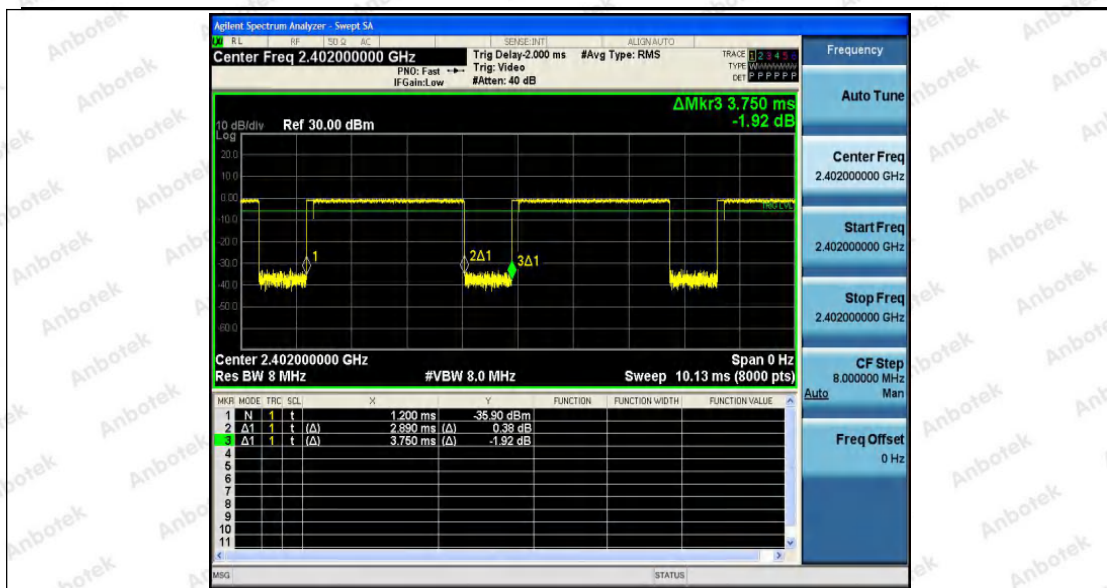
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---