

Appendix Test Data

Report No.:	18220WC20040901	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	55.4 %
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	0.945	2401.538	2402.483	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.954	2479.538	2480.492	---	PASS
2DH5	Ant1	2402	1.326	2401.337	2402.663	---	PASS
		2441	1.266	2440.364	2441.630	---	PASS
		2480	1.335	2479.334	2480.669	---	PASS
3DH5	Ant1	2402	1.269	2401.355	2402.624	---	PASS
		2441	1.269	2440.355	2441.624	---	PASS
		2480	1.269	2479.352	2480.621	---	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	0.89078	2401.554	2402.444	---	PASS
		2441	0.90536	2440.551	2441.456	---	PASS
		2480	0.89124	2479.556	2480.447	---	PASS
2DH5	Ant1	2402	1.1990	2401.403	2402.602	---	PASS
		2441	1.1903	2440.404	2441.594	---	PASS
		2480	1.1993	2479.401	2480.600	---	PASS
3DH5	Ant1	2402	1.2059	2401.390	2402.596	---	PASS
		2441	1.2112	2440.387	2441.598	---	PASS
		2480	1.2100	2479.388	2480.598	---	PASS

Test Graphs



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2DH5_Ant1_2402



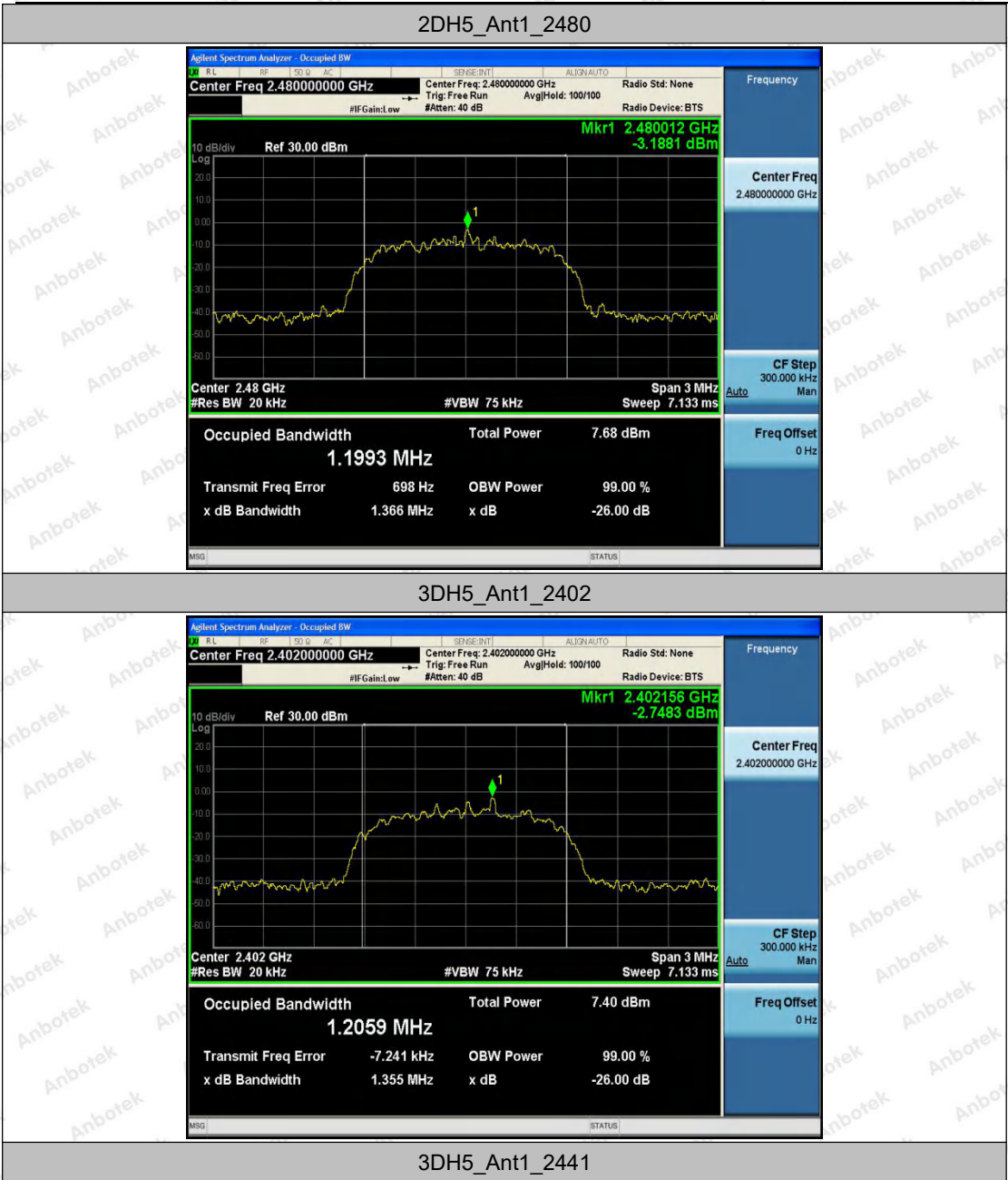
2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.17	≤20.97	PASS
		2441	2.44	≤20.97	PASS
		2480	3.42	≤20.97	PASS
2DH5	Ant1	2402	2.46	≤20.97	PASS
		2441	1.83	≤20.97	PASS
		2480	2.73	≤20.97	PASS
3DH5	Ant1	2402	2.28	≤20.97	PASS
		2441	1.92	≤20.97	PASS
		2480	2.81	≤20.97	PASS

Test Graphs



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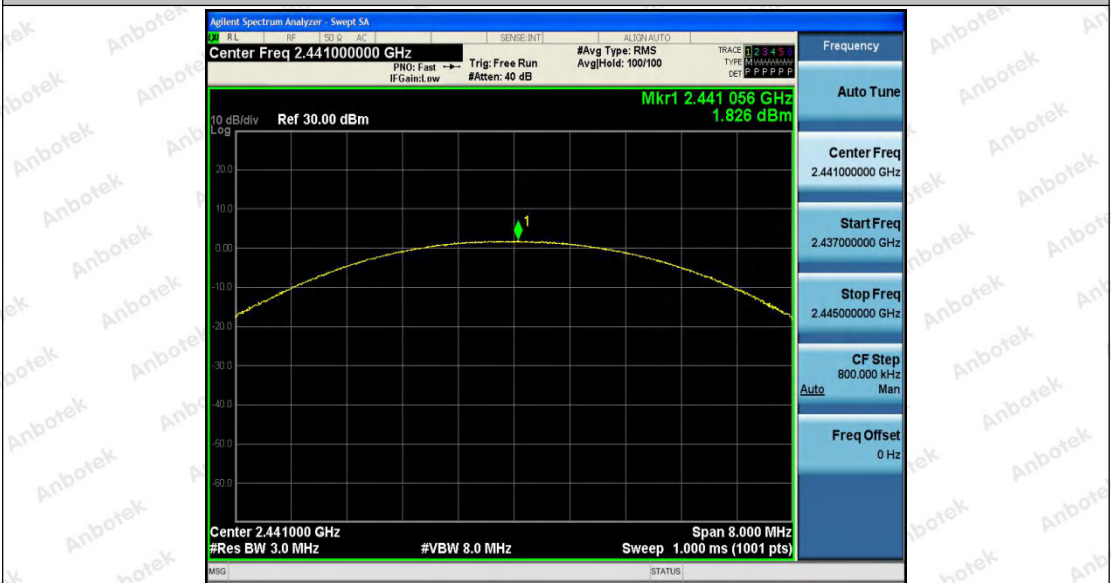
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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.852	≥0.636	PASS
2DH5	Ant1	Hop	1.222	≥0.890	PASS
3DH5	Ant1	Hop	0.886	≥0.846	PASS

Test Graphs



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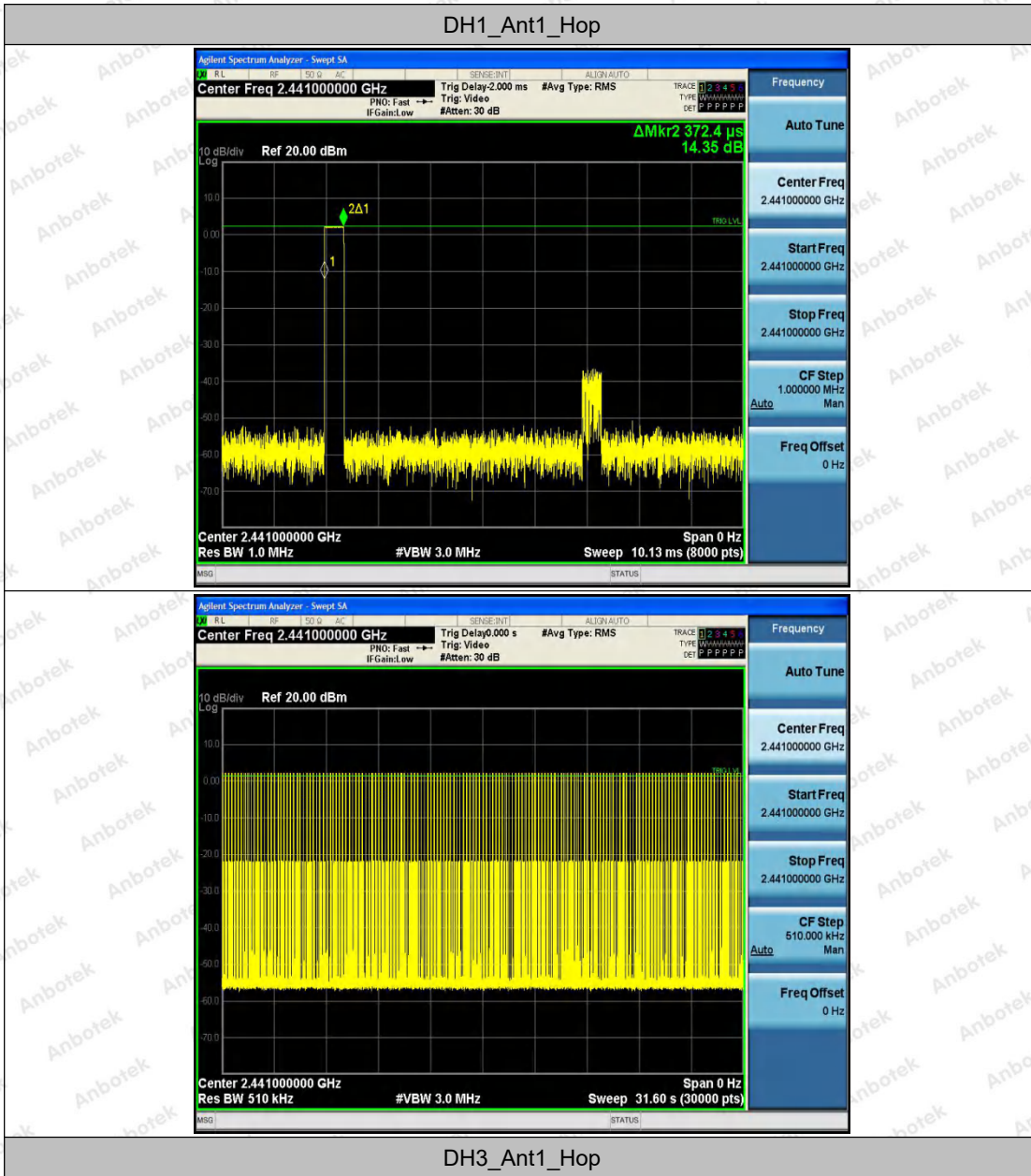
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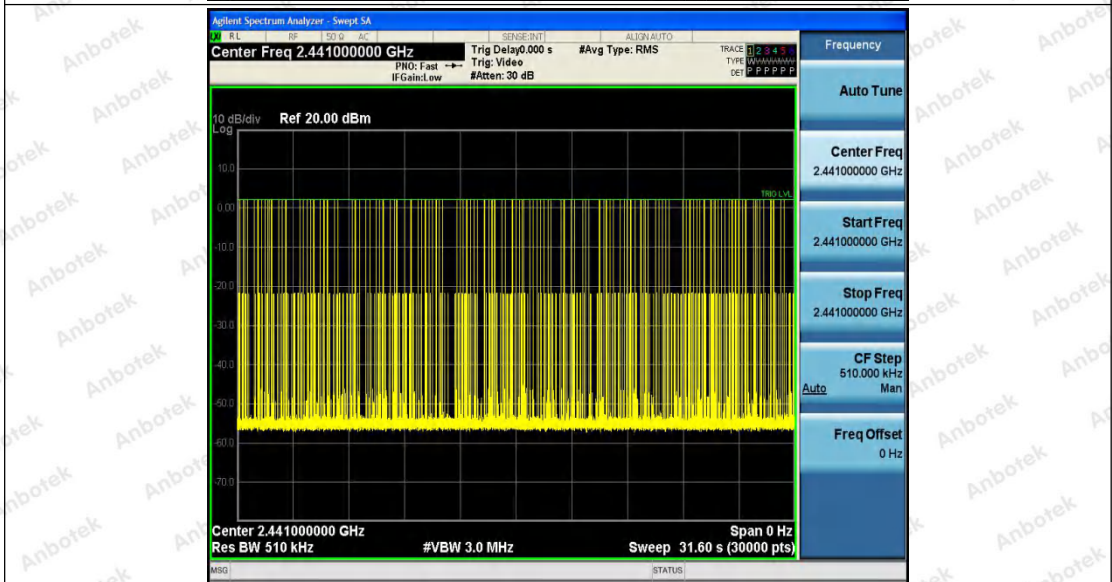
Appendix E: Time of occupancy

Test Result

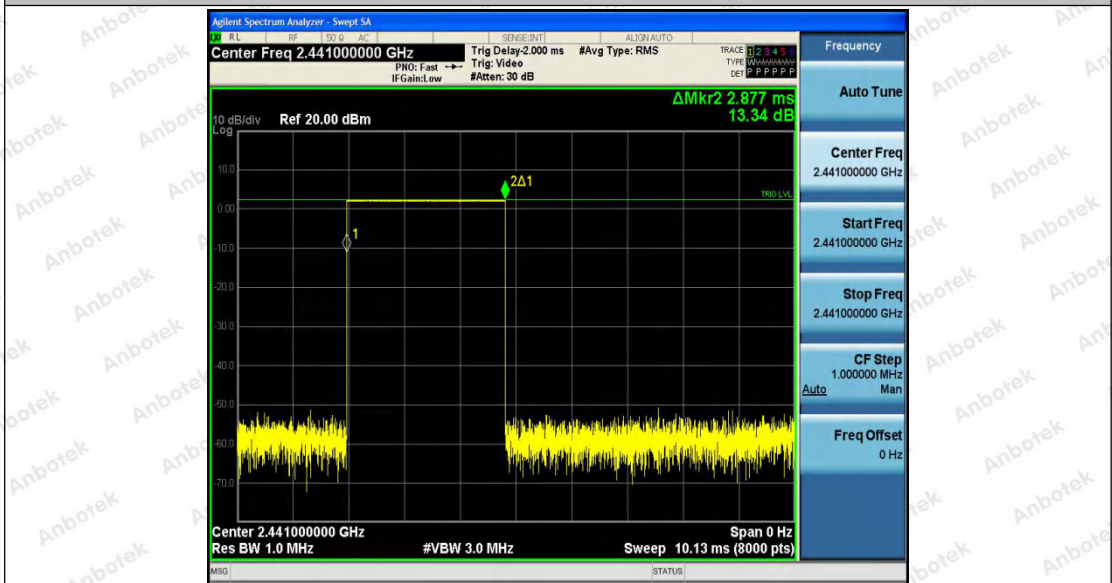
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

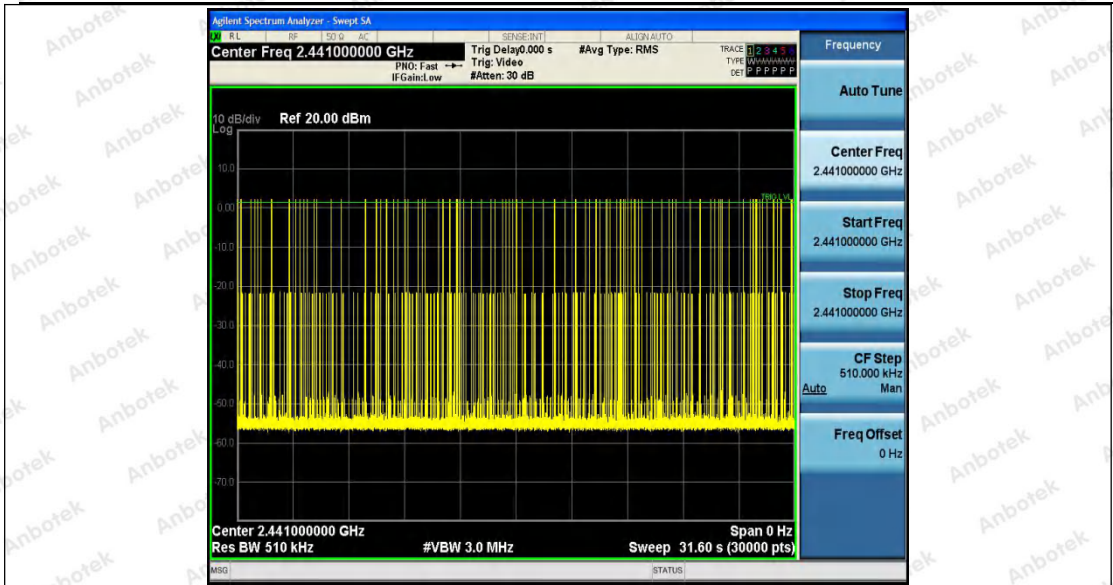


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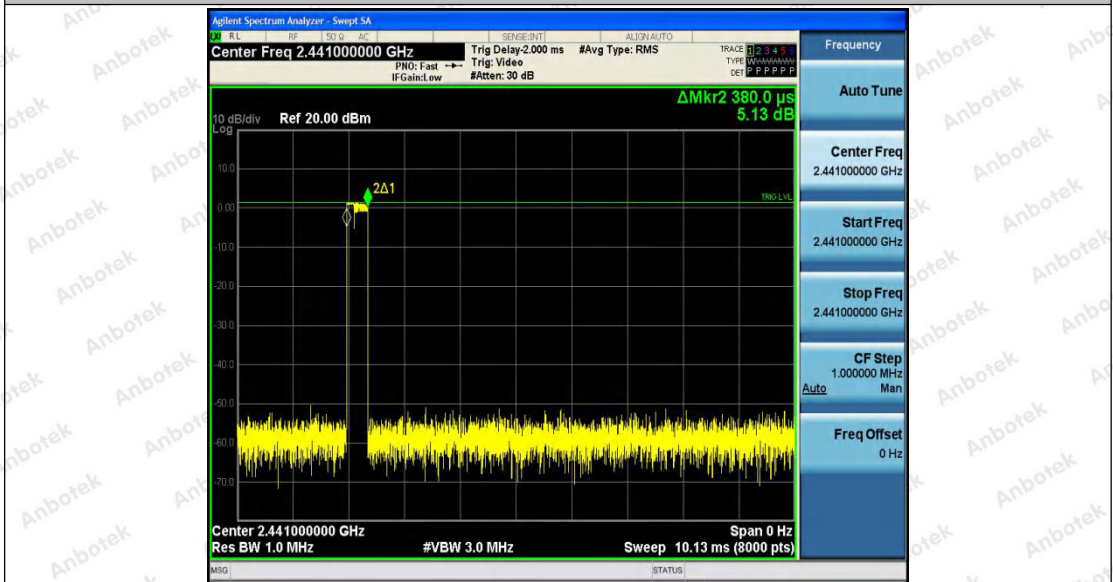
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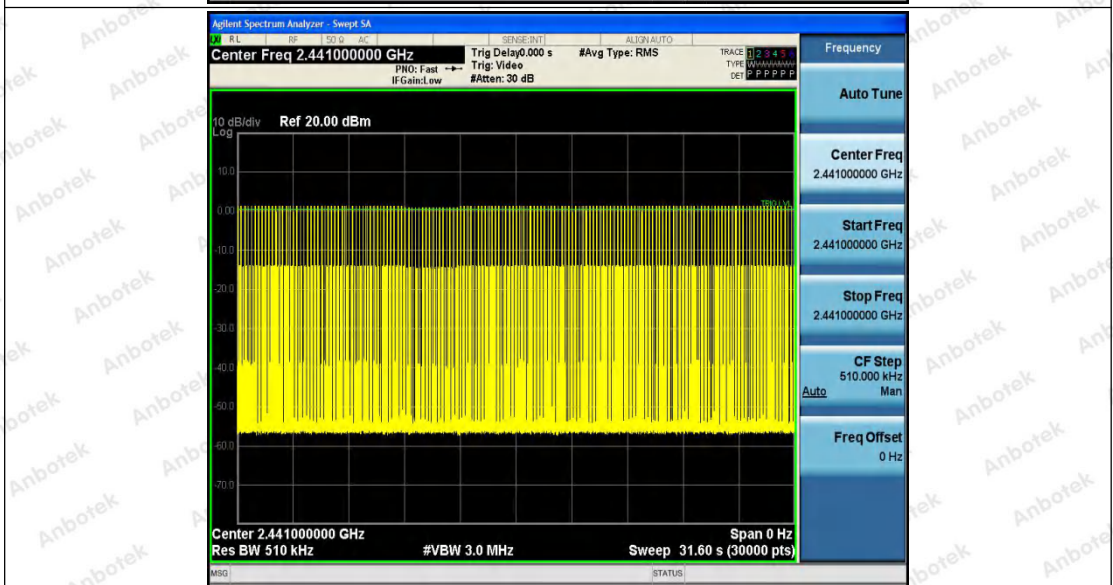
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



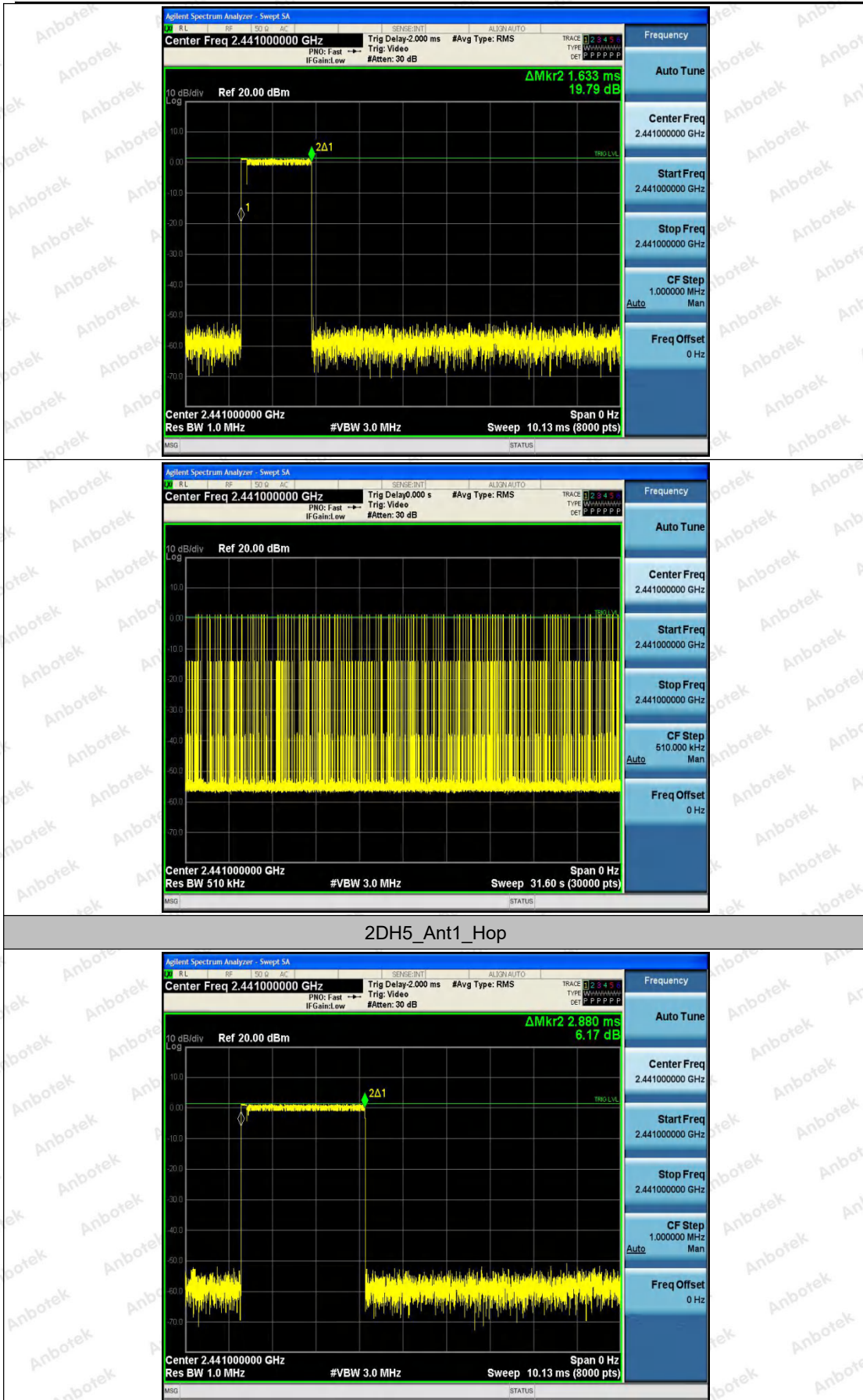
2DH3_Ant1_Hop

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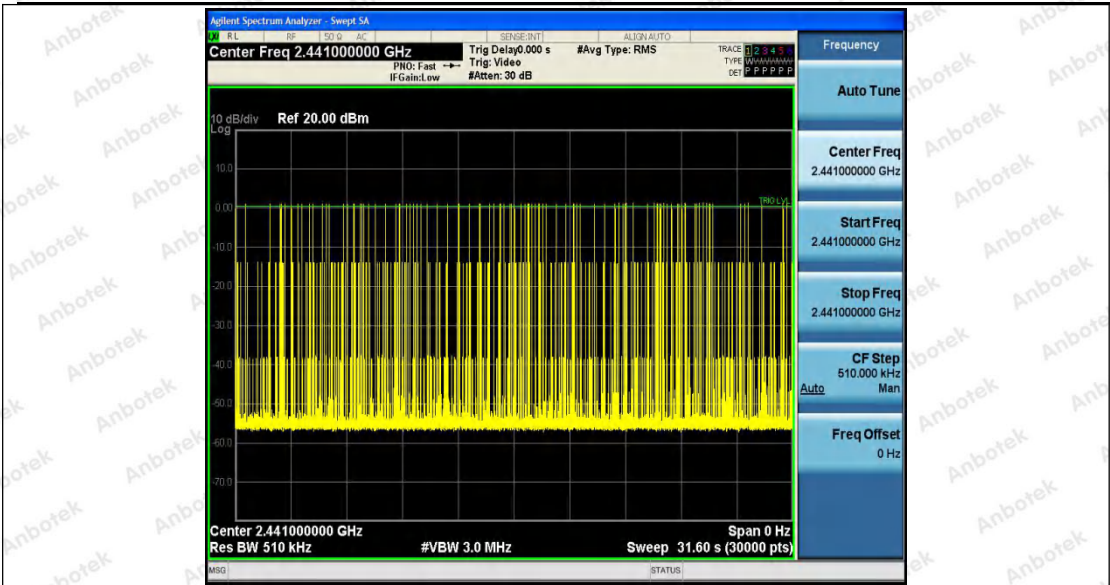


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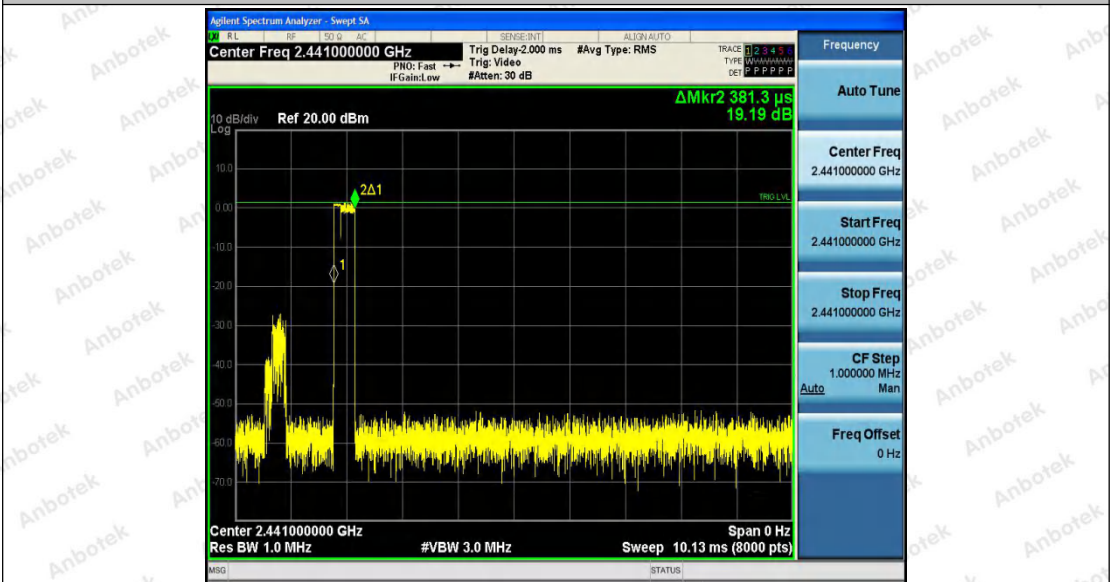
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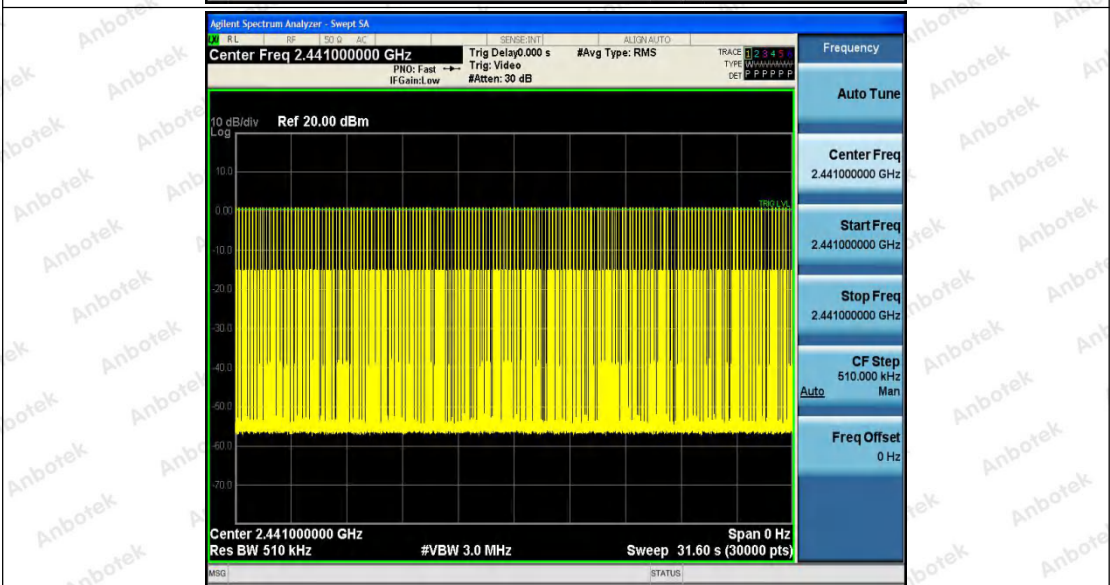
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



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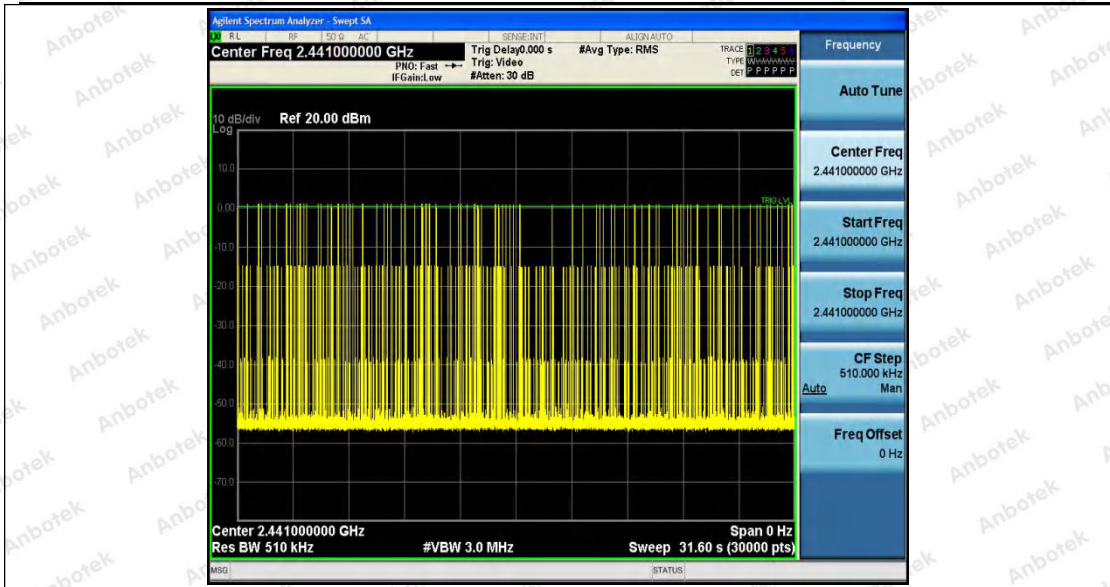
3DH5_Ant1_Hop

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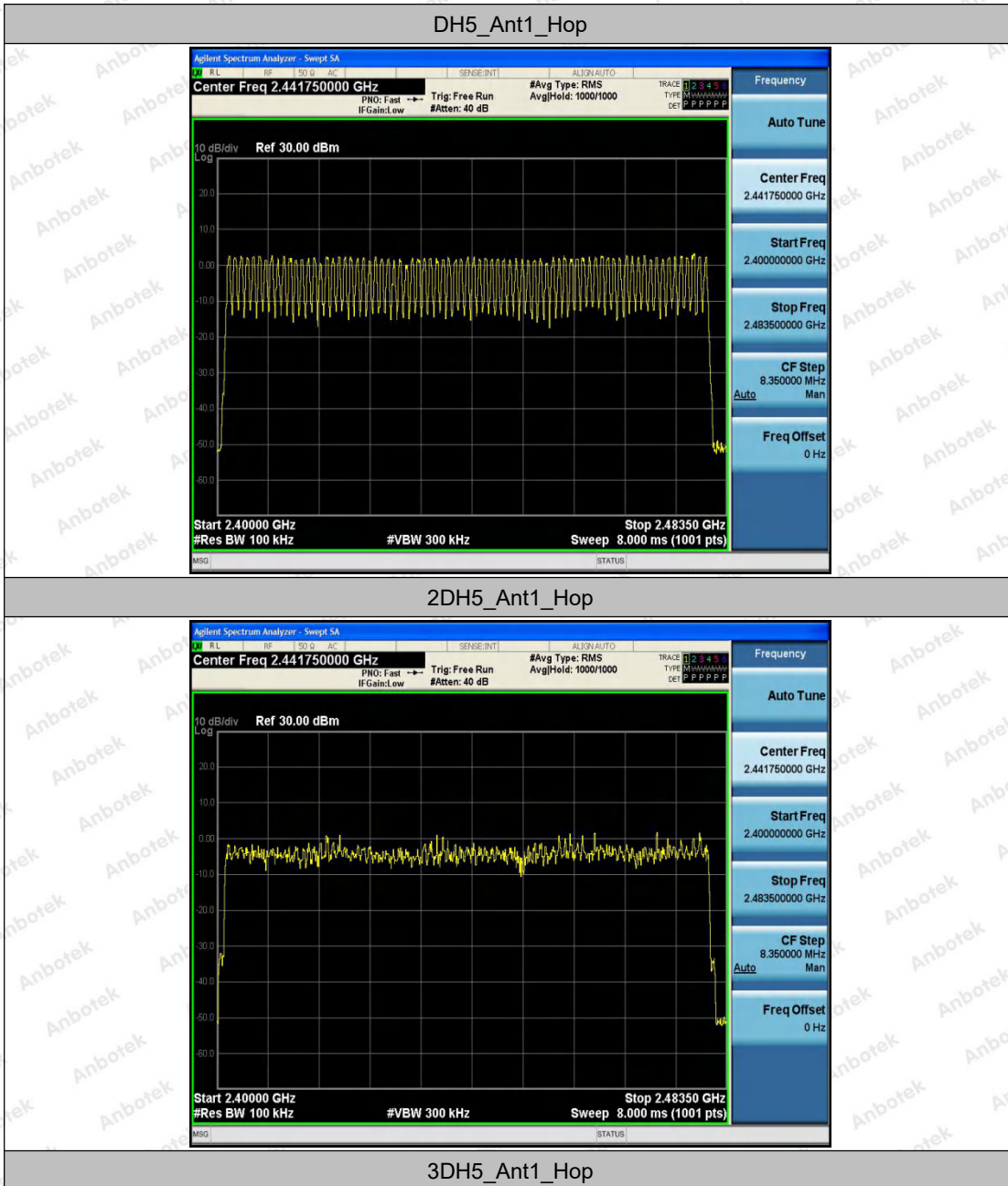
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Appendix F: Number of hopping channels

Test Result

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

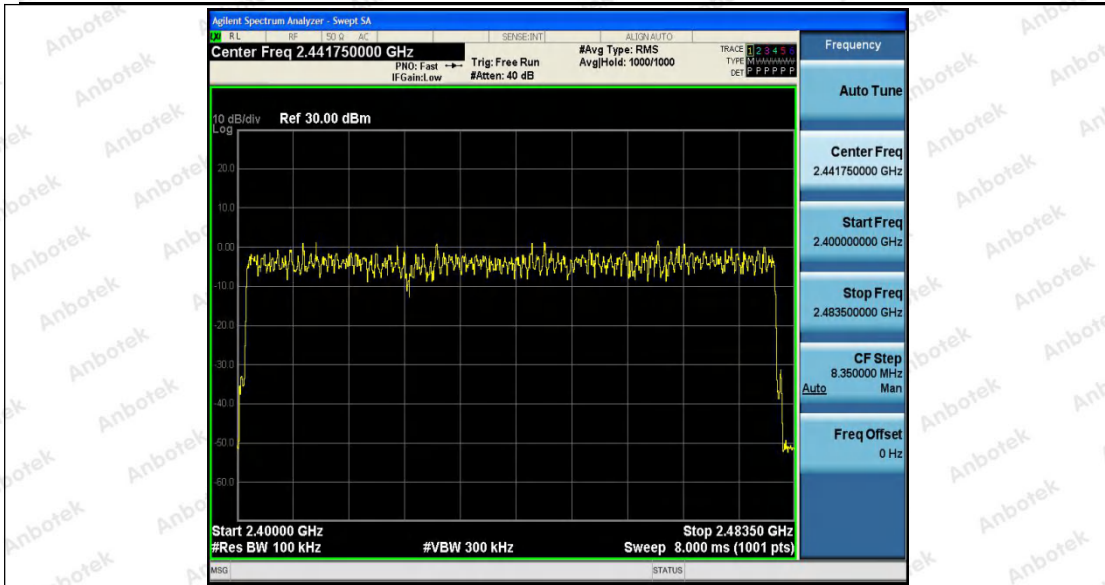
Test Graphs



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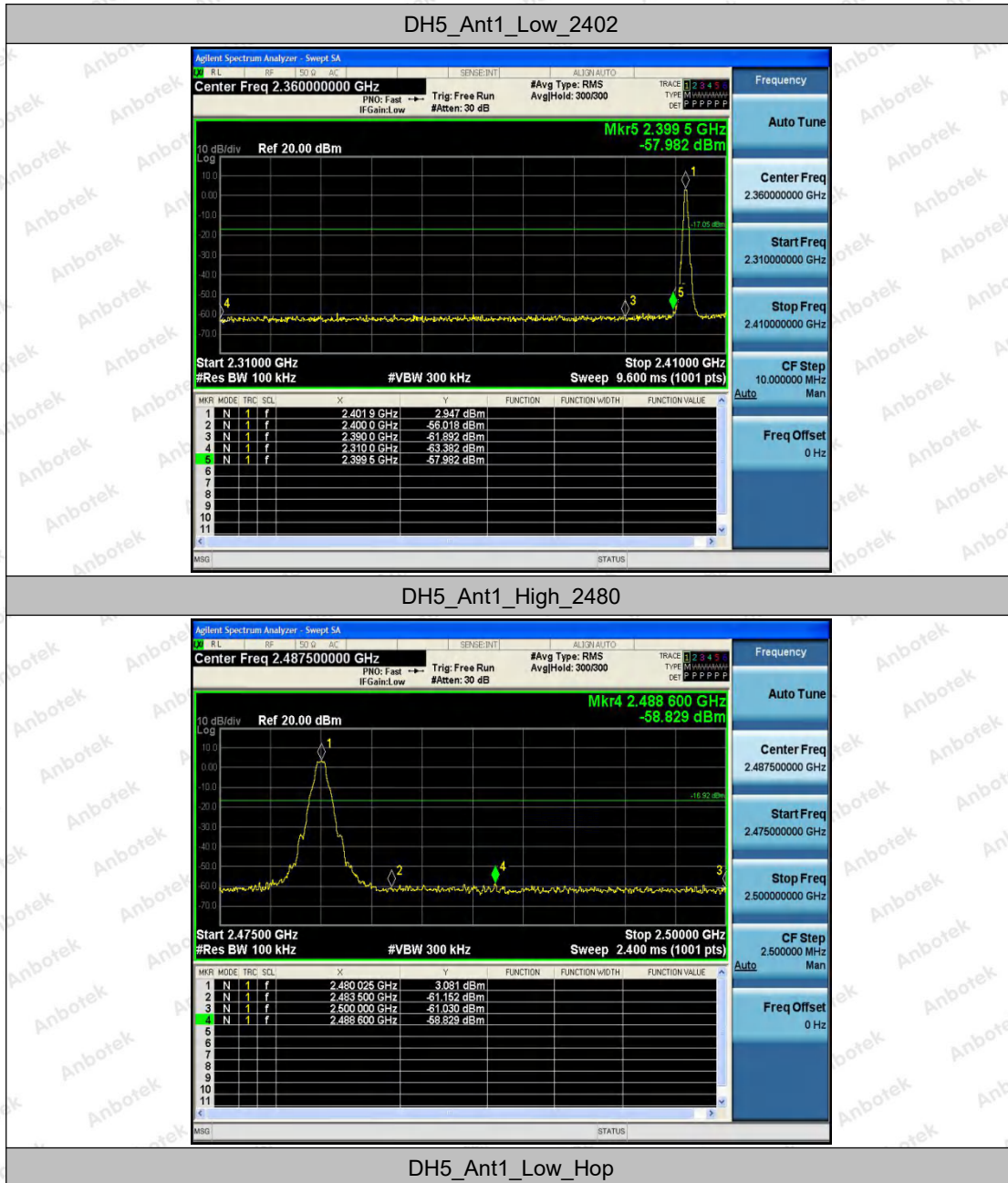
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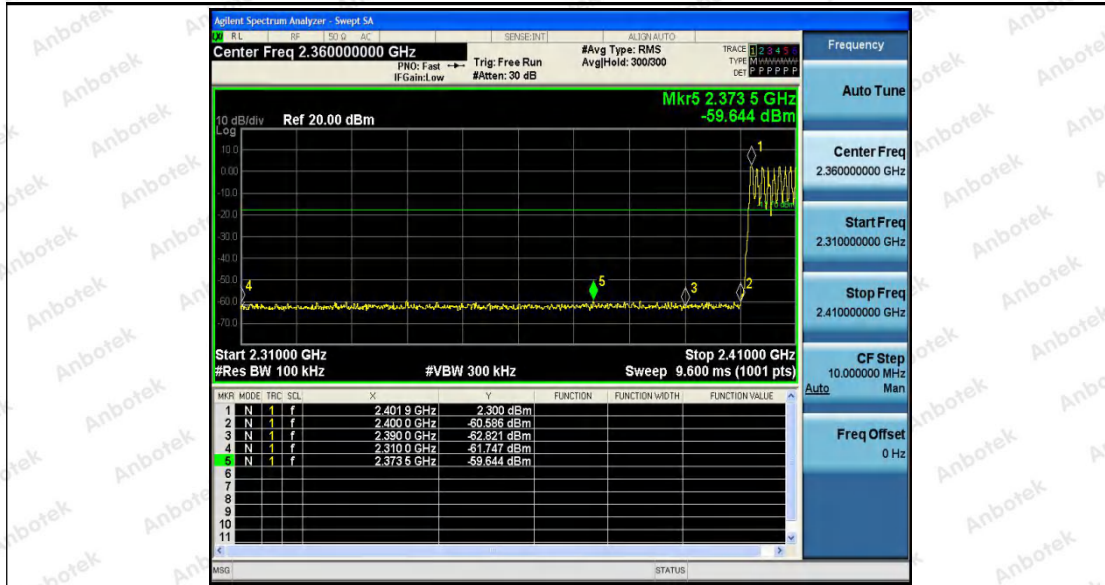
Appendix G: Band edge measurements

Test Result

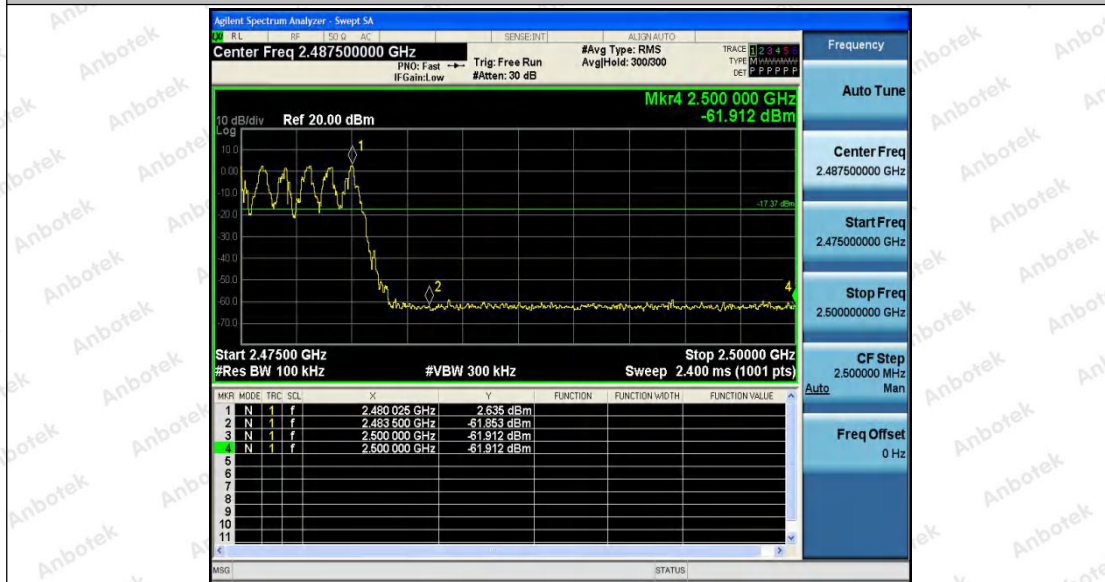
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.95	-57.98	≤-17.05	PASS
		High	2480	3.08	-58.83	≤-16.92	PASS
		Low	Hop	2.30	-59.64	≤-17.7	PASS
		High	Hop	2.64	-61.91	≤-17.37	PASS
2DH5	Ant1	Low	2402	-0.36	-54.36	≤-20.36	PASS
		High	2480	1.86	-58.96	≤-18.14	PASS
		Low	Hop	0.95	-60.08	≤-19.05	PASS
		High	Hop	0.70	-61.82	≤-19.3	PASS
3DH5	Ant1	Low	2402	-0.37	-53.76	≤-20.37	PASS
		High	2480	2.05	-59.2	≤-17.96	PASS
		Low	Hop	-1.47	-60.15	≤-21.47	PASS
		High	Hop	1.70	-62.34	≤-18.3	PASS

Test Graphs

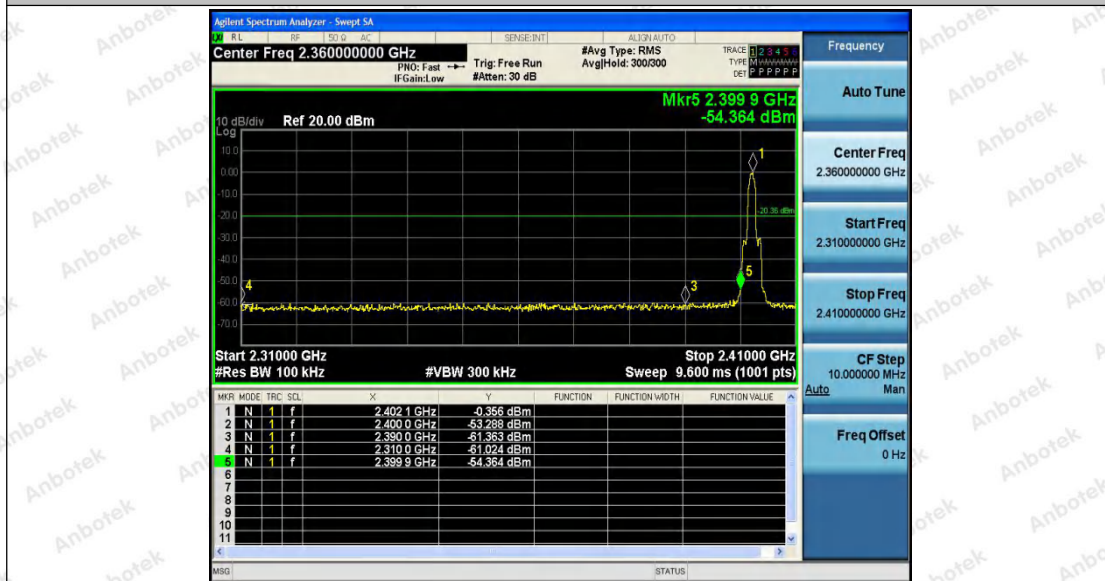




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

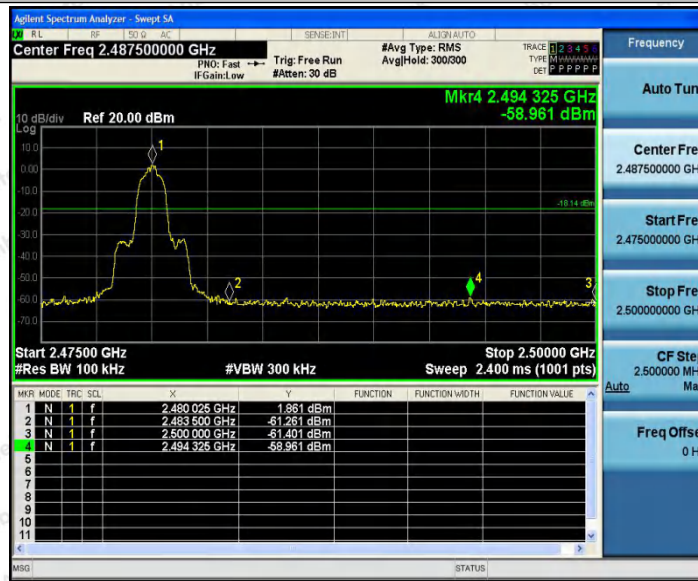


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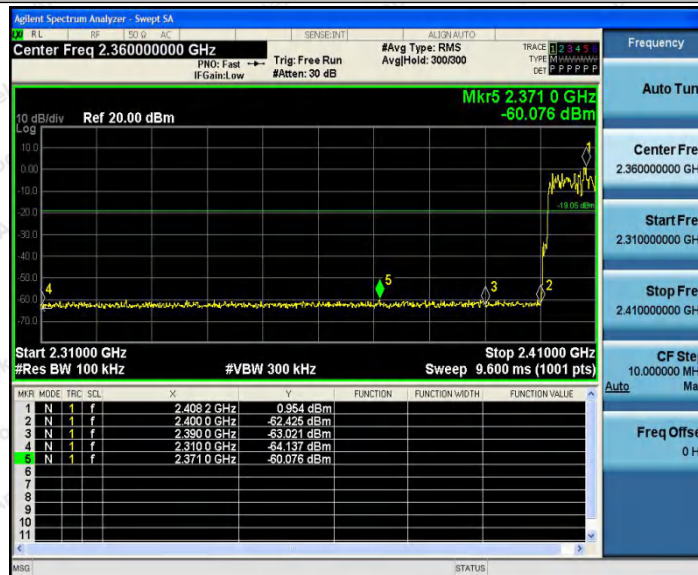
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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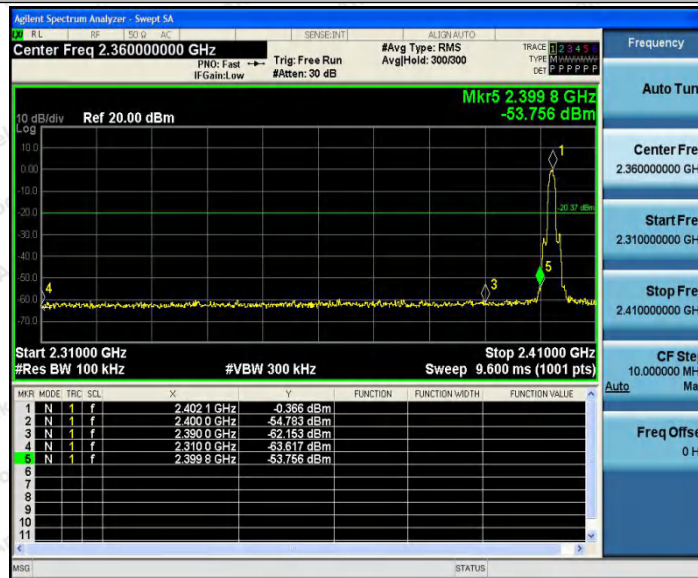
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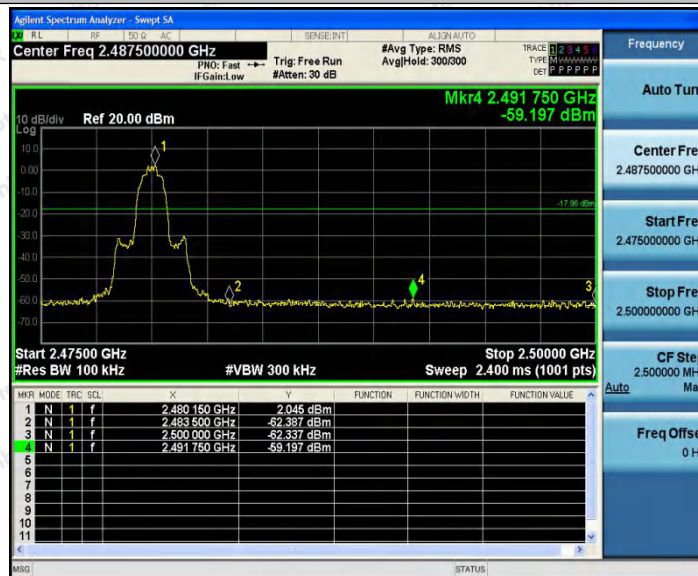
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

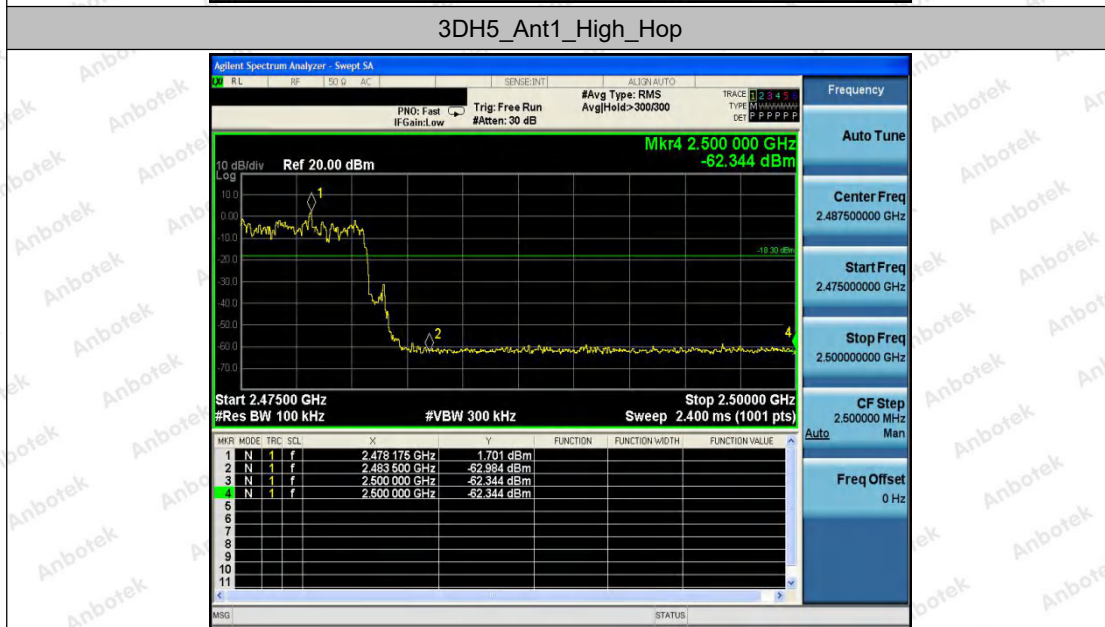
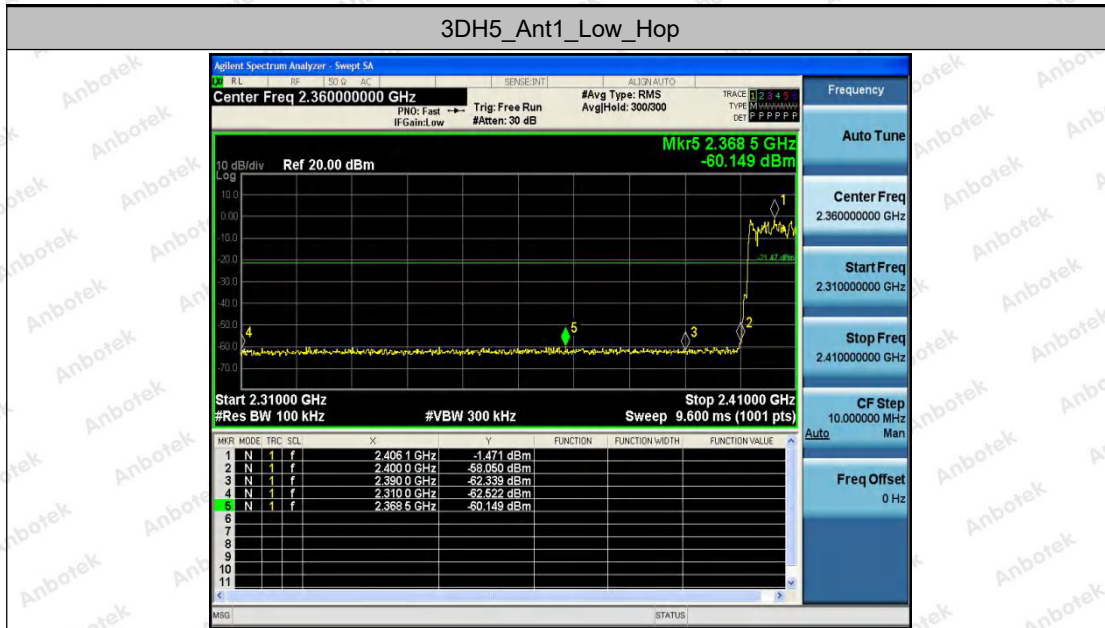


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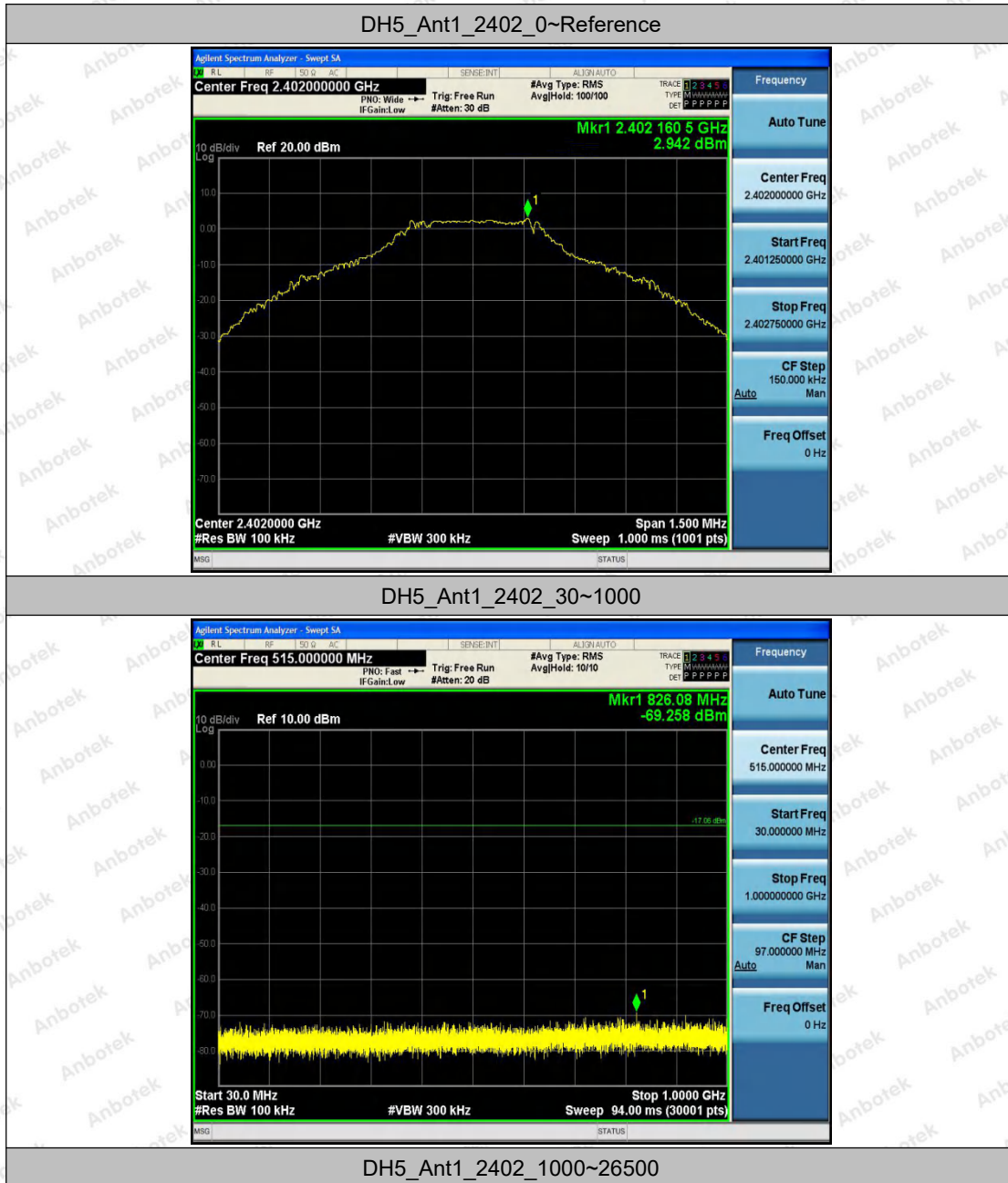
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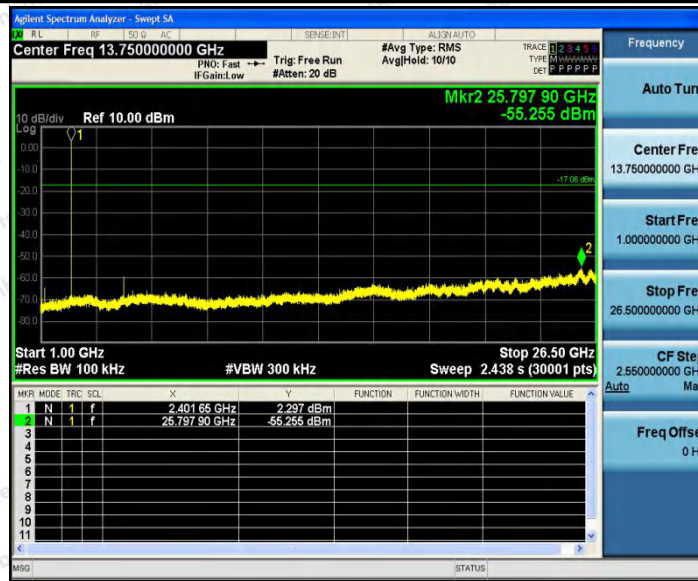
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-69.26	≤-17.06	PASS
			1000~26500	2.94	-55.26	≤-17.06	PASS
		2441	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-70.31	≤-18.26	PASS
			1000~26500	1.74	-55.22	≤-18.26	PASS
		2480	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-70.05	≤-17.33	PASS
			1000~26500	2.67	-55.14	≤-17.33	PASS
2DH5	Ant1	2402	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-70.13	≤-18.82	PASS
			1000~26500	1.18	-55.58	≤-18.82	PASS
		2441	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-70.31	≤-19.15	PASS
			1000~26500	0.85	-55.07	≤-19.15	PASS
		2480	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-70.88	≤-18.11	PASS
			1000~26500	1.89	-55.93	≤-18.11	PASS
3DH5	Ant1	2402	Reference	0.48	0.48	---	PASS
			30~1000	0.48	-58.74	≤-19.52	PASS
			1000~26500	0.48	-55.65	≤-19.52	PASS
		2441	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-70.52	≤-19.37	PASS
			1000~26500	0.63	-55.1	≤-19.37	PASS
		2480	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-70.05	≤-18.36	PASS
			1000~26500	1.64	-54.43	≤-18.36	PASS

Test Graphs

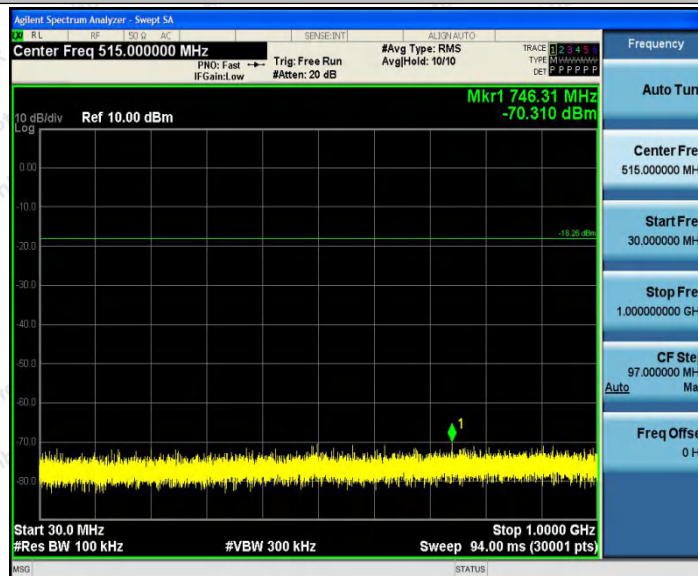




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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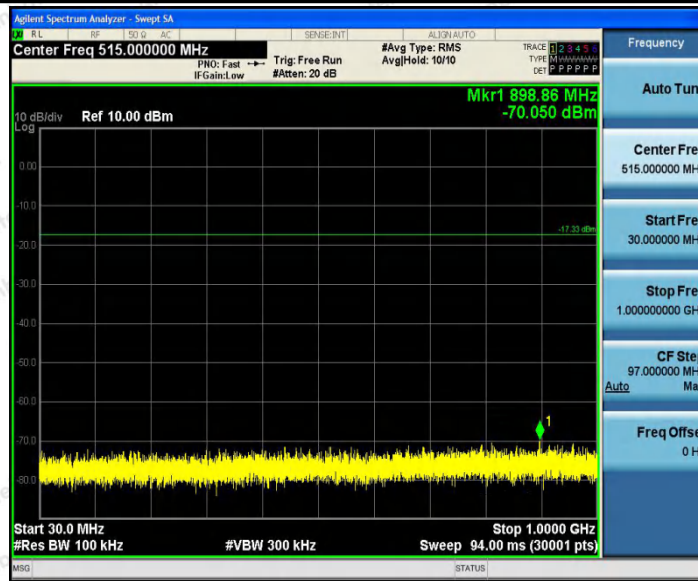


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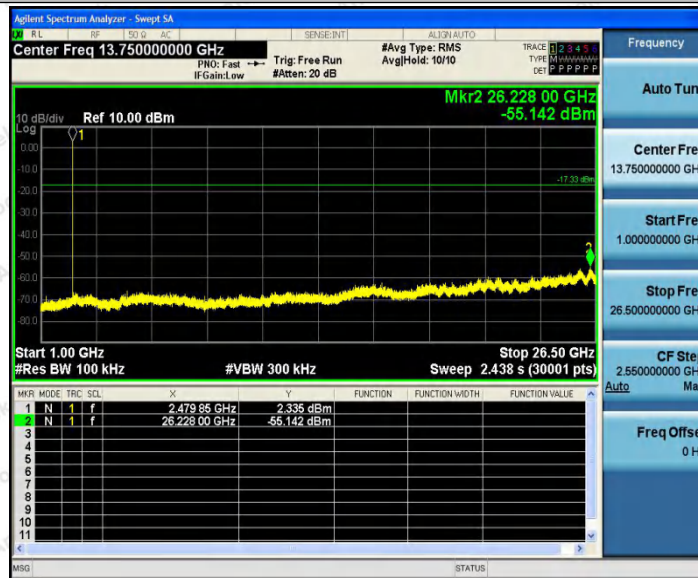
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

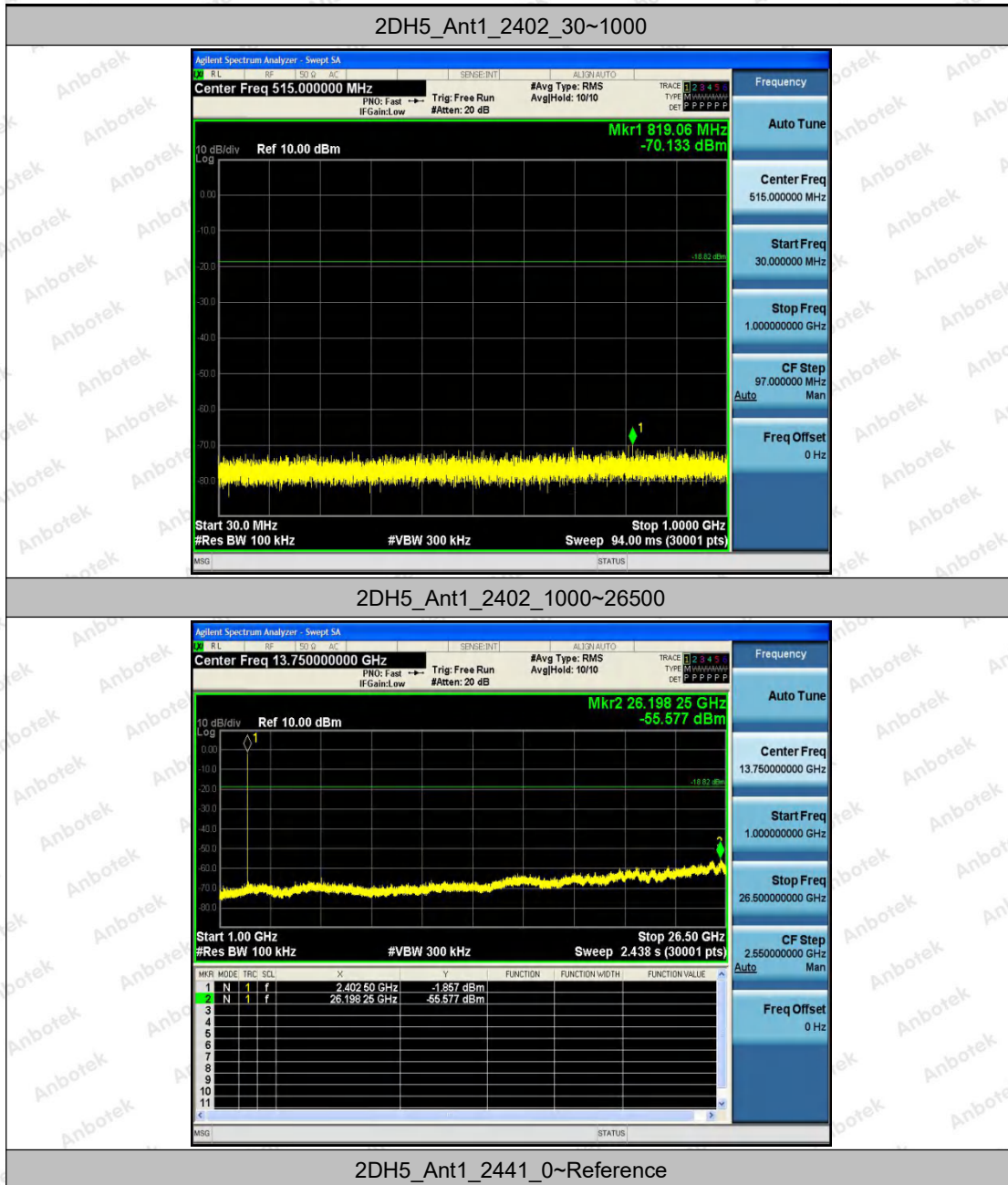


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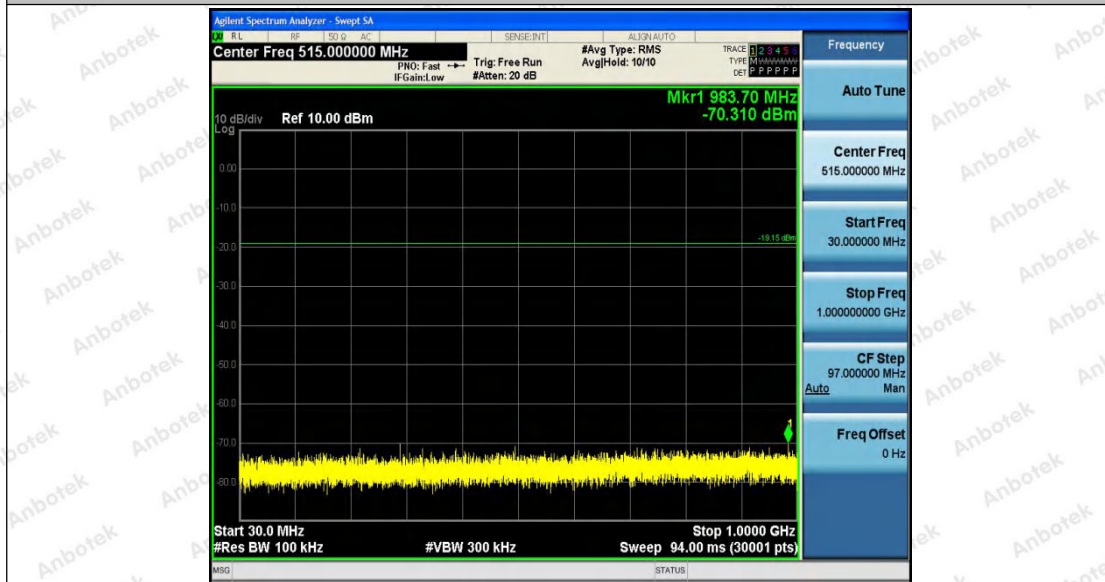
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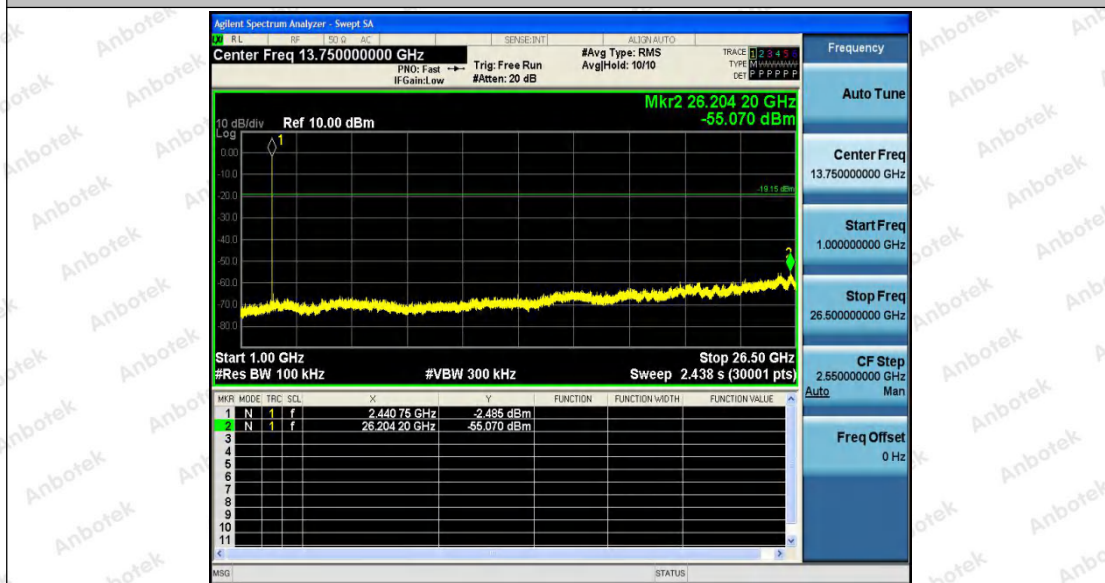
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

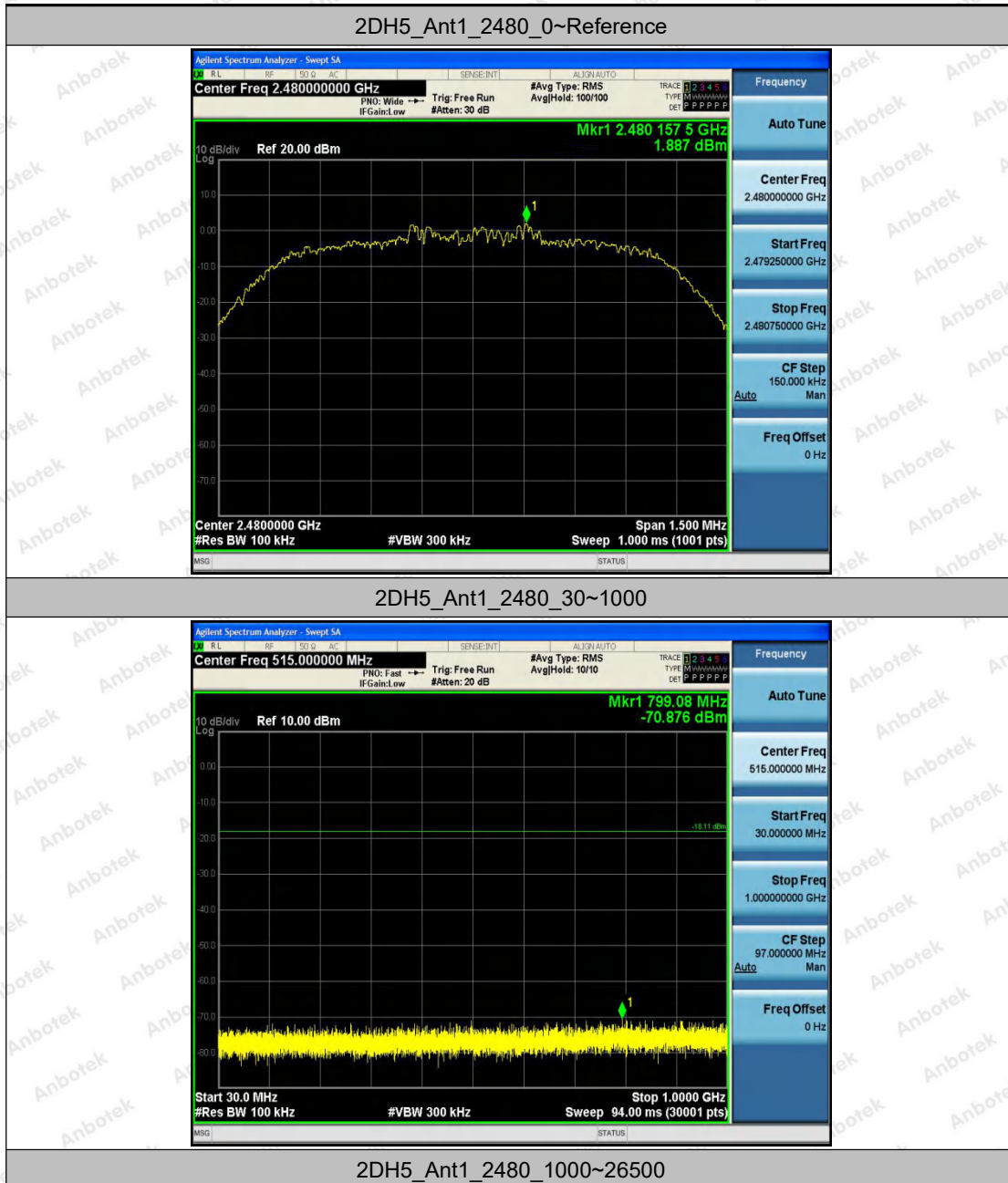


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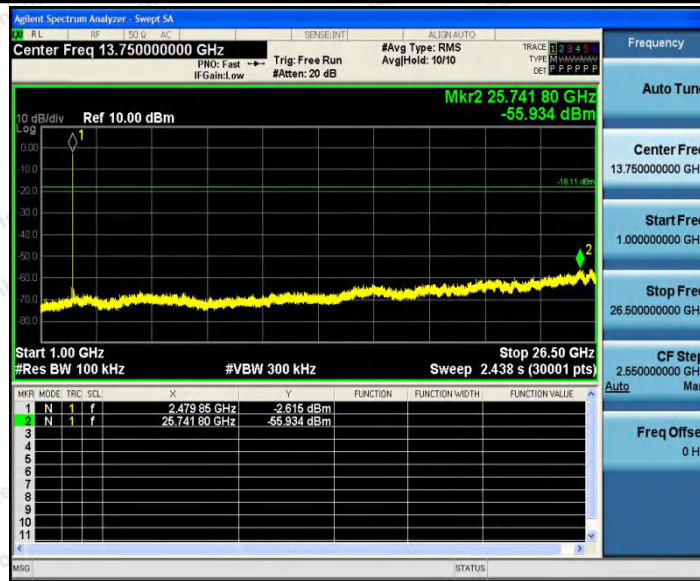


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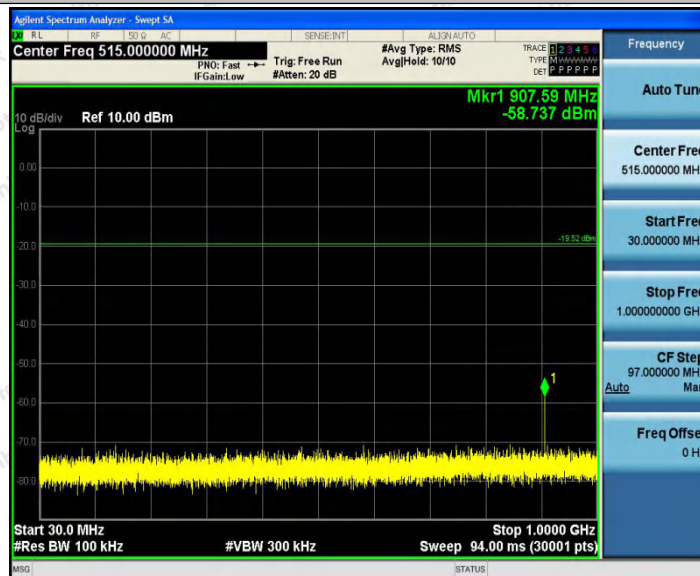
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3DH5_Ant1_2402_0~Reference



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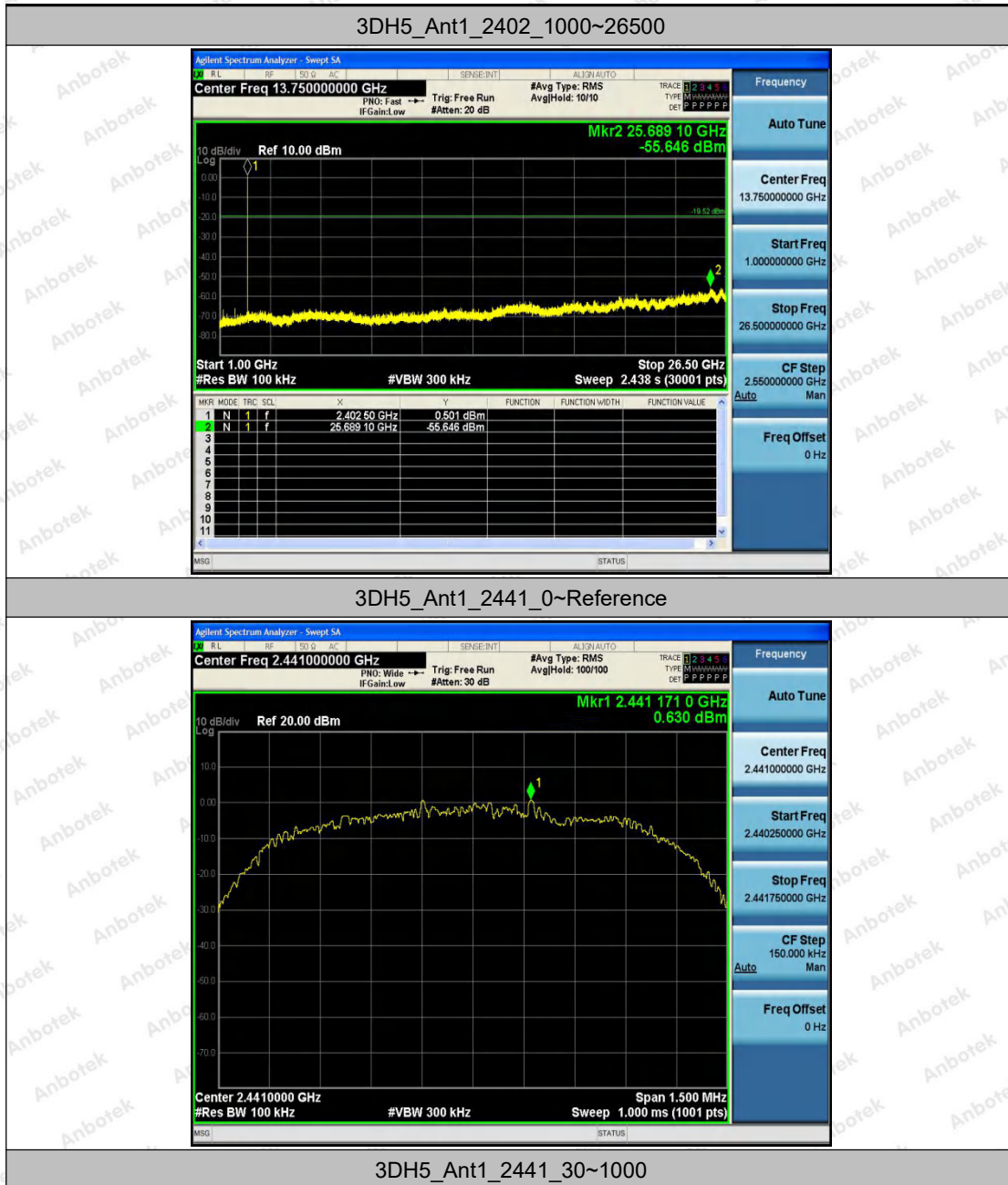


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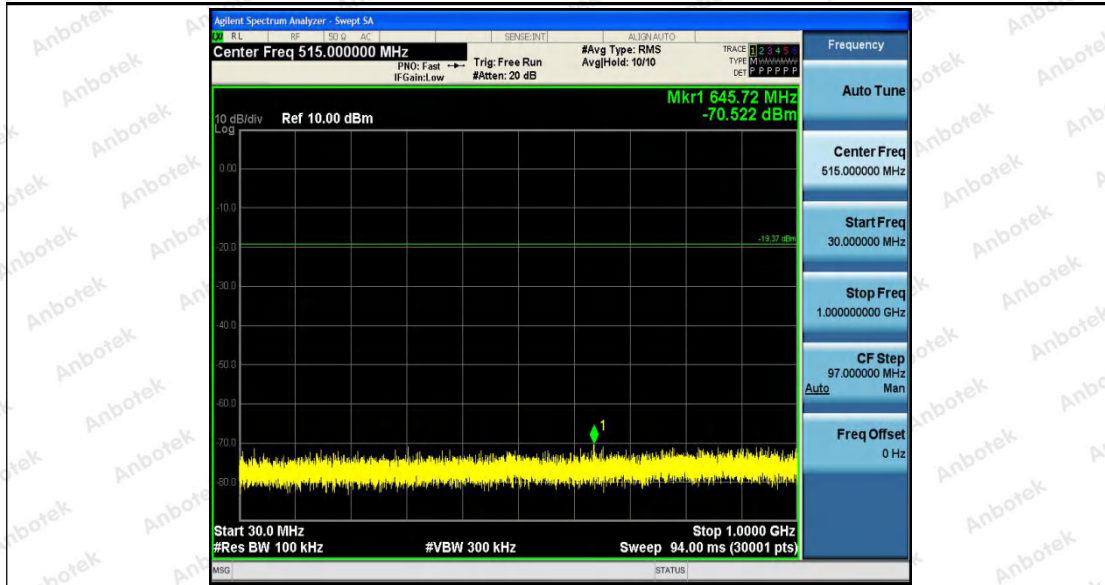
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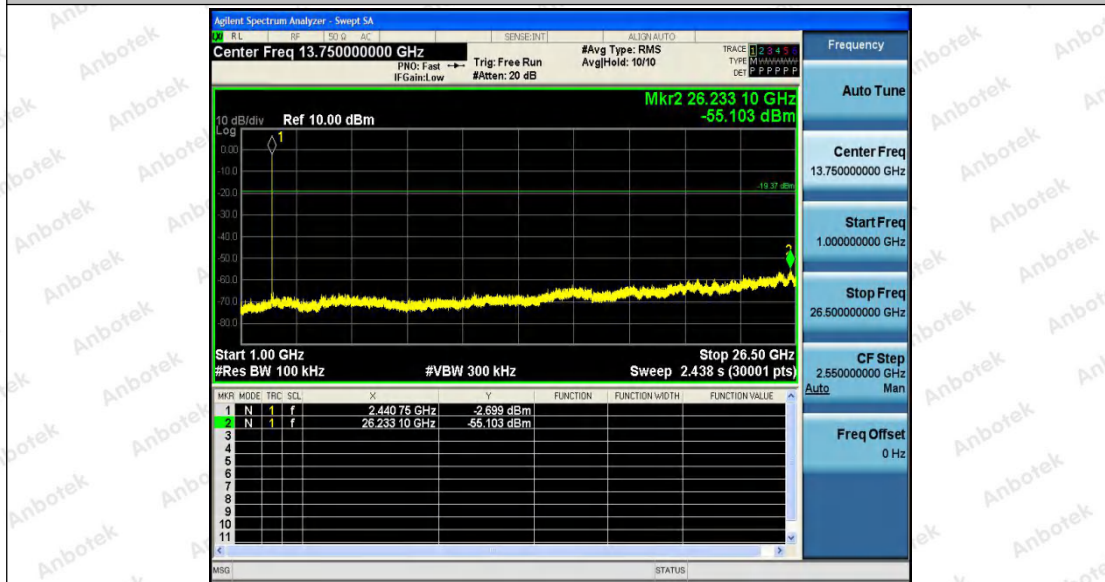
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3DH5_Ant1_2441_1000~26500



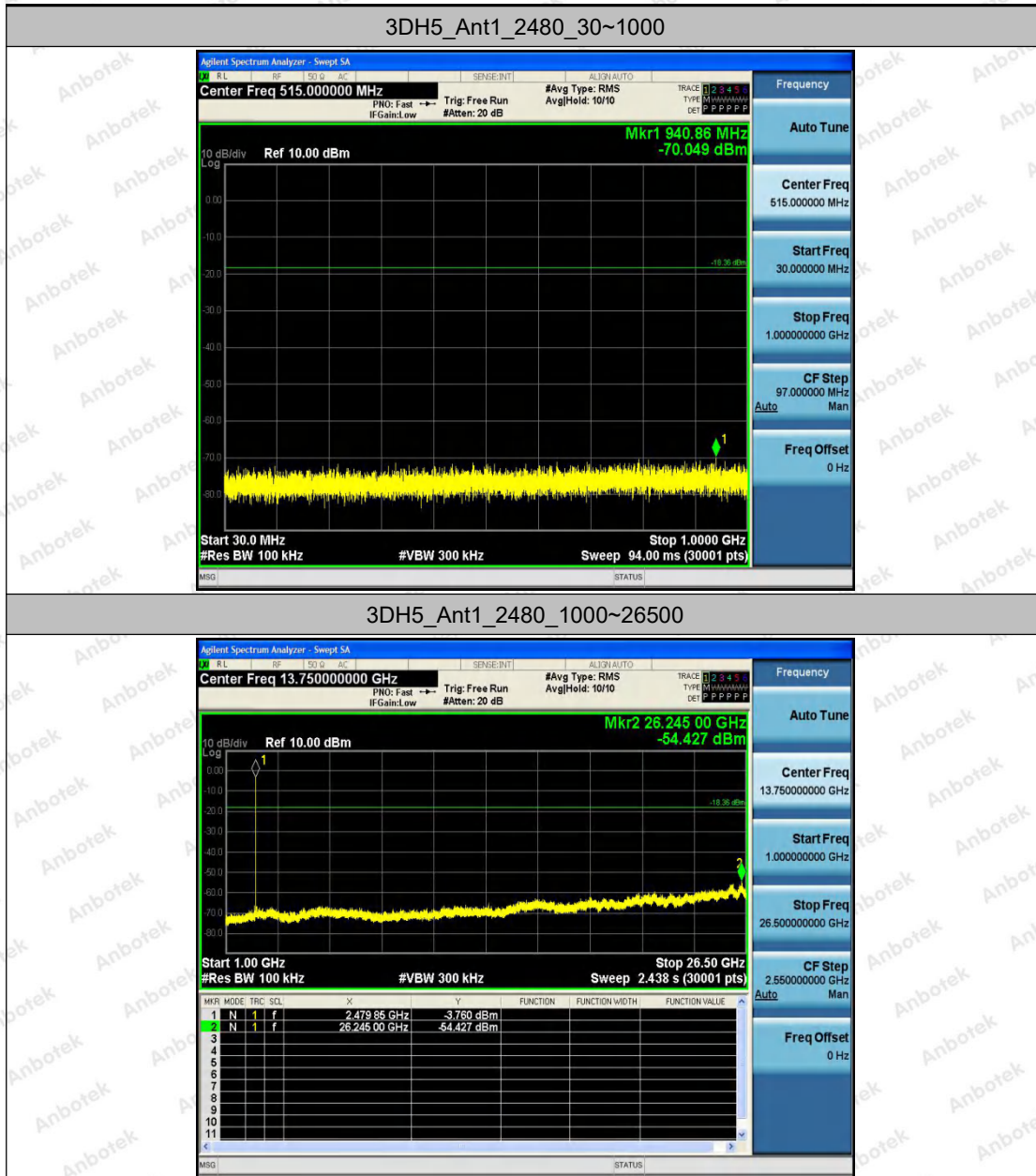
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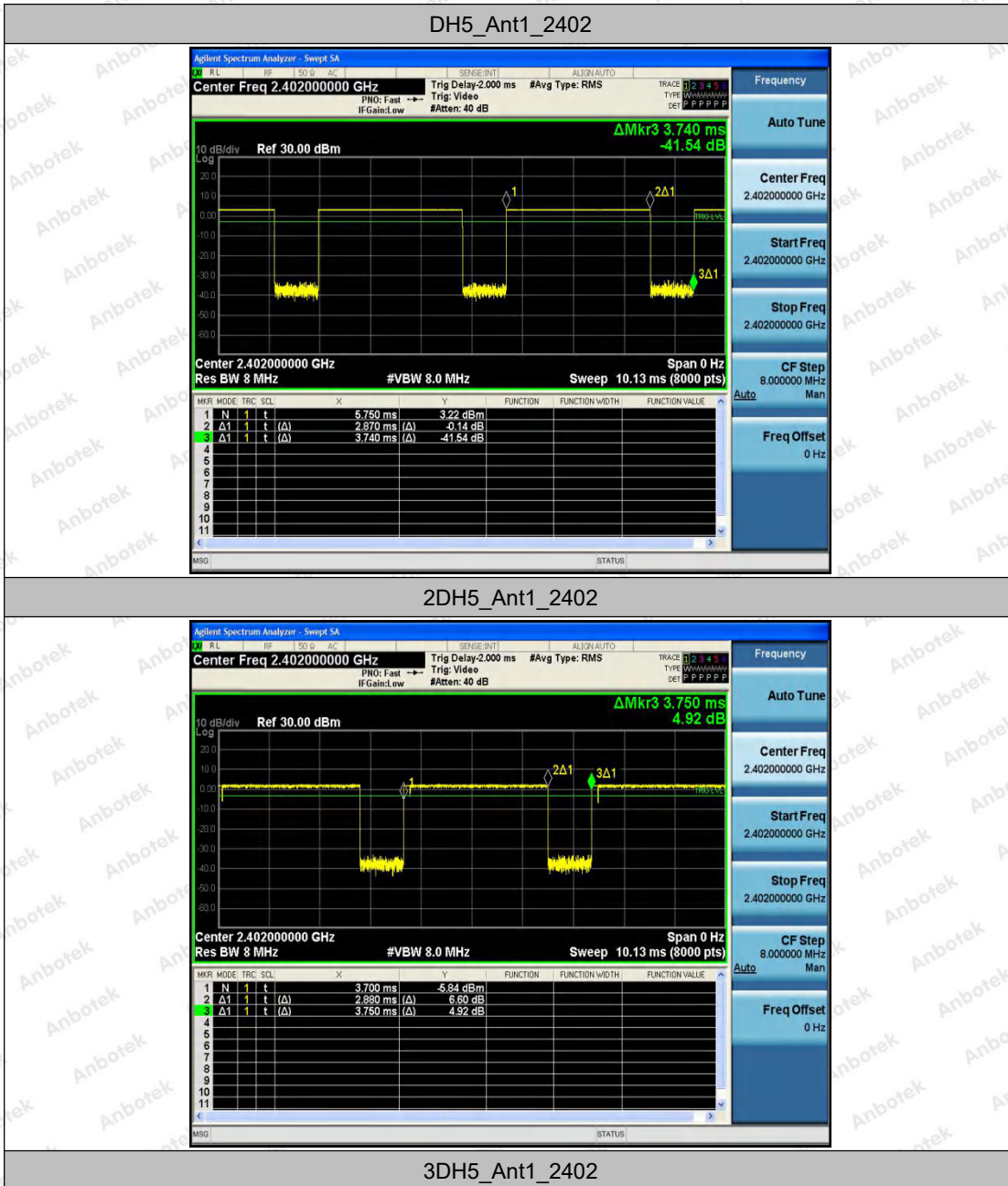
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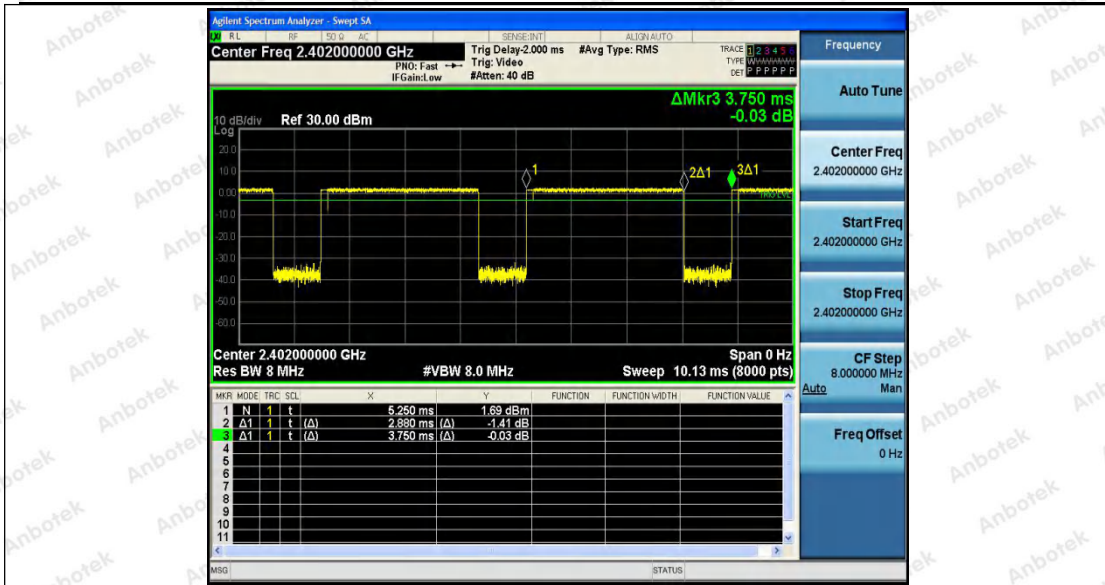
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	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	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---