

Appendix Test Data

Report No.:	18220WC20085301	Test Sample No.:	1-2-2
Start Test Date:	2022.4.19	Finish Test Date:	2022.4.25
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°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	0.951	2401.538	2402.489	---	PASS
		2441	0.945	2440.541	2441.486	---	PASS
		2480	0.951	2479.538	2480.489	---	PASS
2DH5	Ant1	2402	1.320	2401.340	2402.660	---	PASS
		2441	1.323	2440.337	2441.660	---	PASS
		2480	1.347	2479.328	2480.675	---	PASS
3DH5	Ant1	2402	1.329	2401.331	2402.660	---	PASS
		2441	1.275	2440.352	2441.627	---	PASS
		2480	1.311	2479.346	2480.657	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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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	0.87960	2401.559	2402.439	---	PASS
		2441	0.88537	2440.558	2441.443	---	PASS
		2480	0.89292	2479.556	2480.448	---	PASS
2DH5	Ant1	2402	1.1947	2401.404	2402.598	---	PASS
		2441	1.1925	2440.404	2441.597	---	PASS
		2480	1.1875	2479.405	2480.592	---	PASS
3DH5	Ant1	2402	1.2148	2401.384	2402.599	---	PASS
		2441	1.2111	2440.387	2441.598	---	PASS
		2480	1.2059	2479.389	2480.595	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

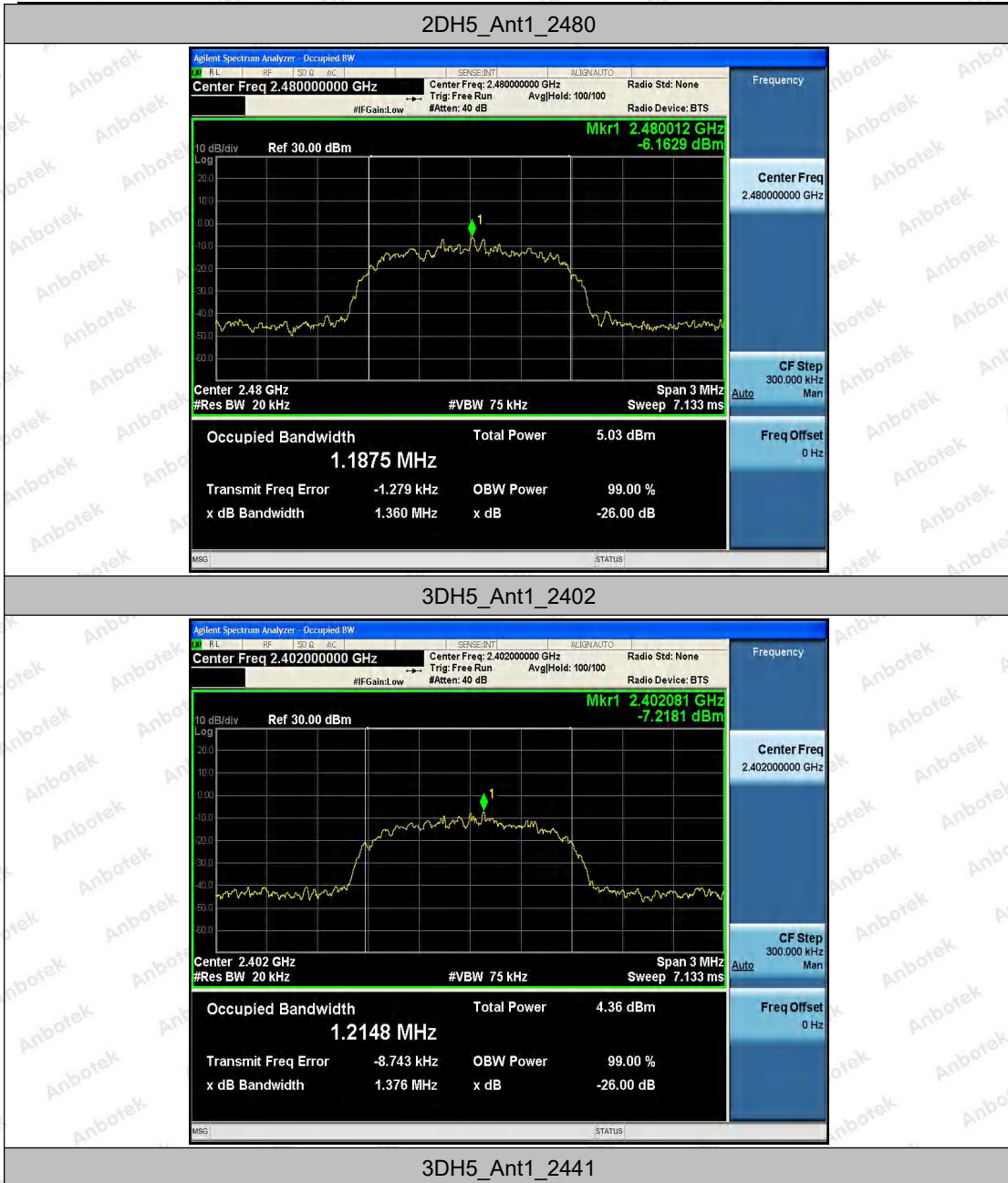


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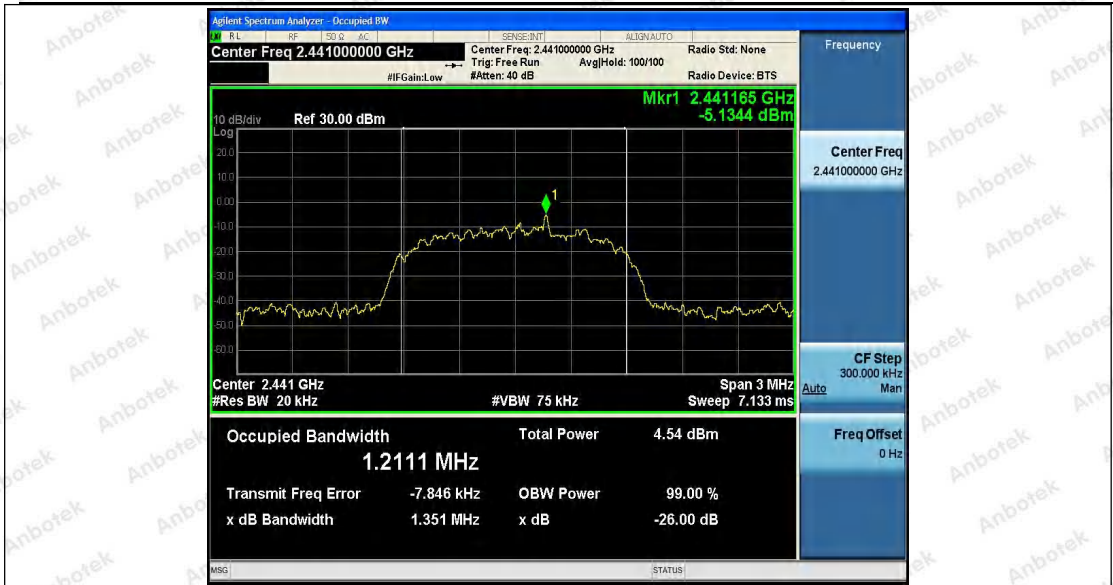


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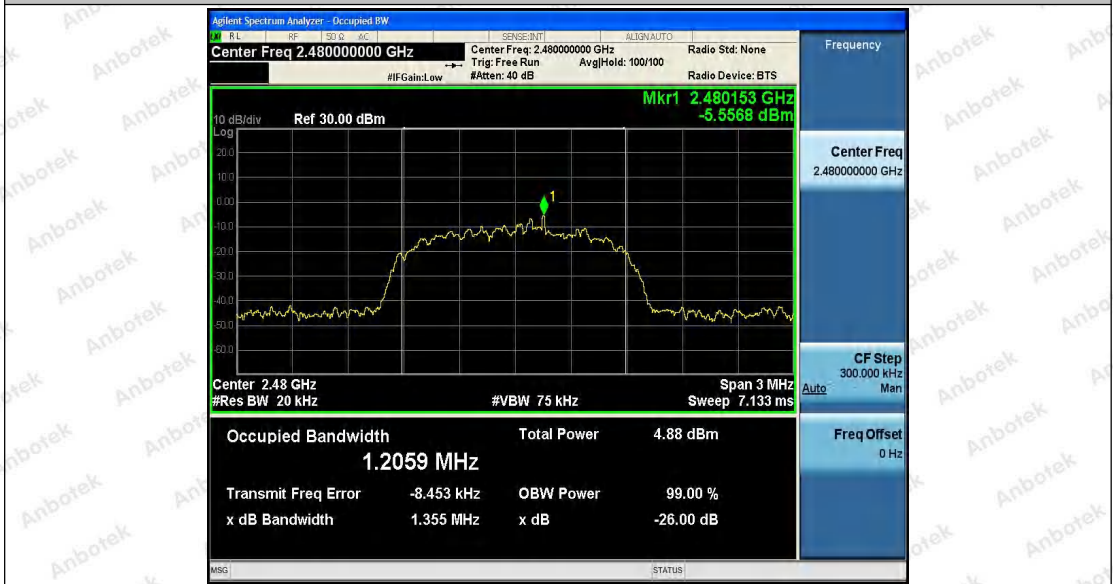
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3DH5_Ant1_2480



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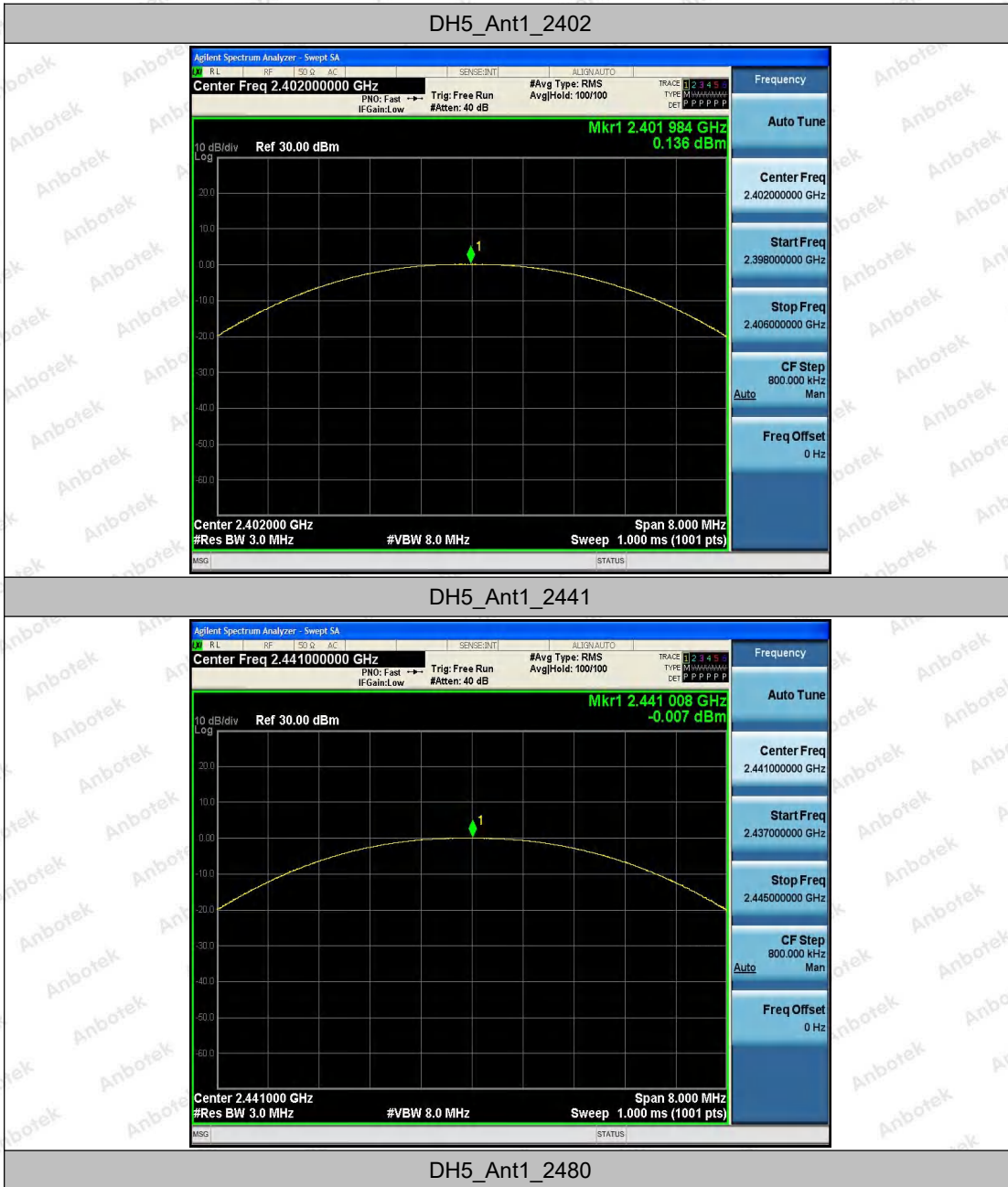
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.14	≤20.97	PASS
		2441	-0.01	≤20.97	PASS
		2480	0.5	≤20.97	PASS
2DH5	Ant1	2402	-0.47	≤20.97	PASS
		2441	-0.57	≤20.97	PASS
		2480	-0.19	≤20.97	PASS
3DH5	Ant1	2402	-0.43	≤20.97	PASS
		2441	-0.52	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

Test Graphs



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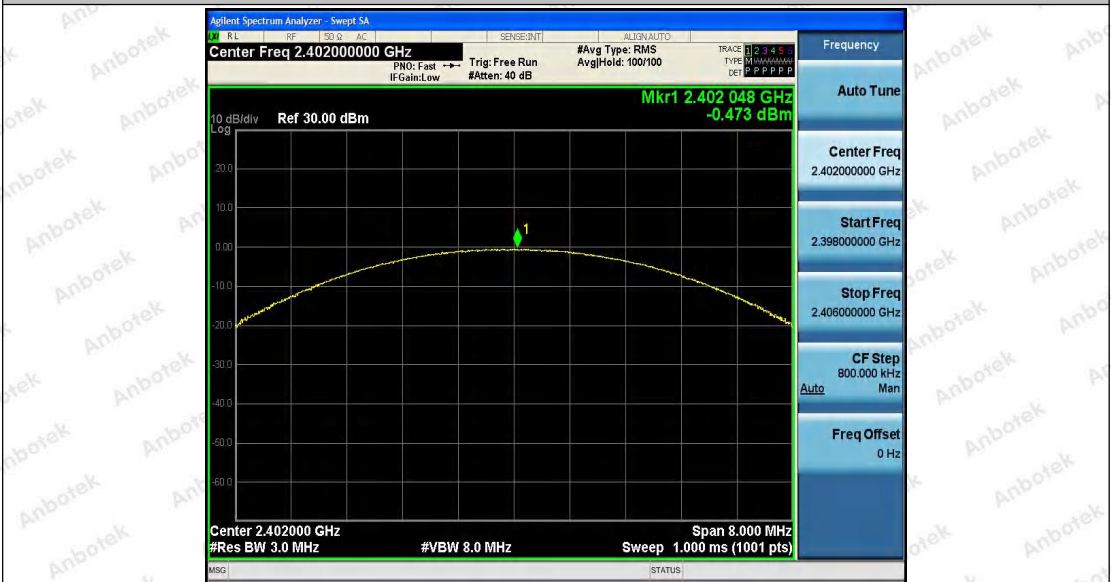
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2DH5_Ant1_2402



2DH5_Ant1_2441

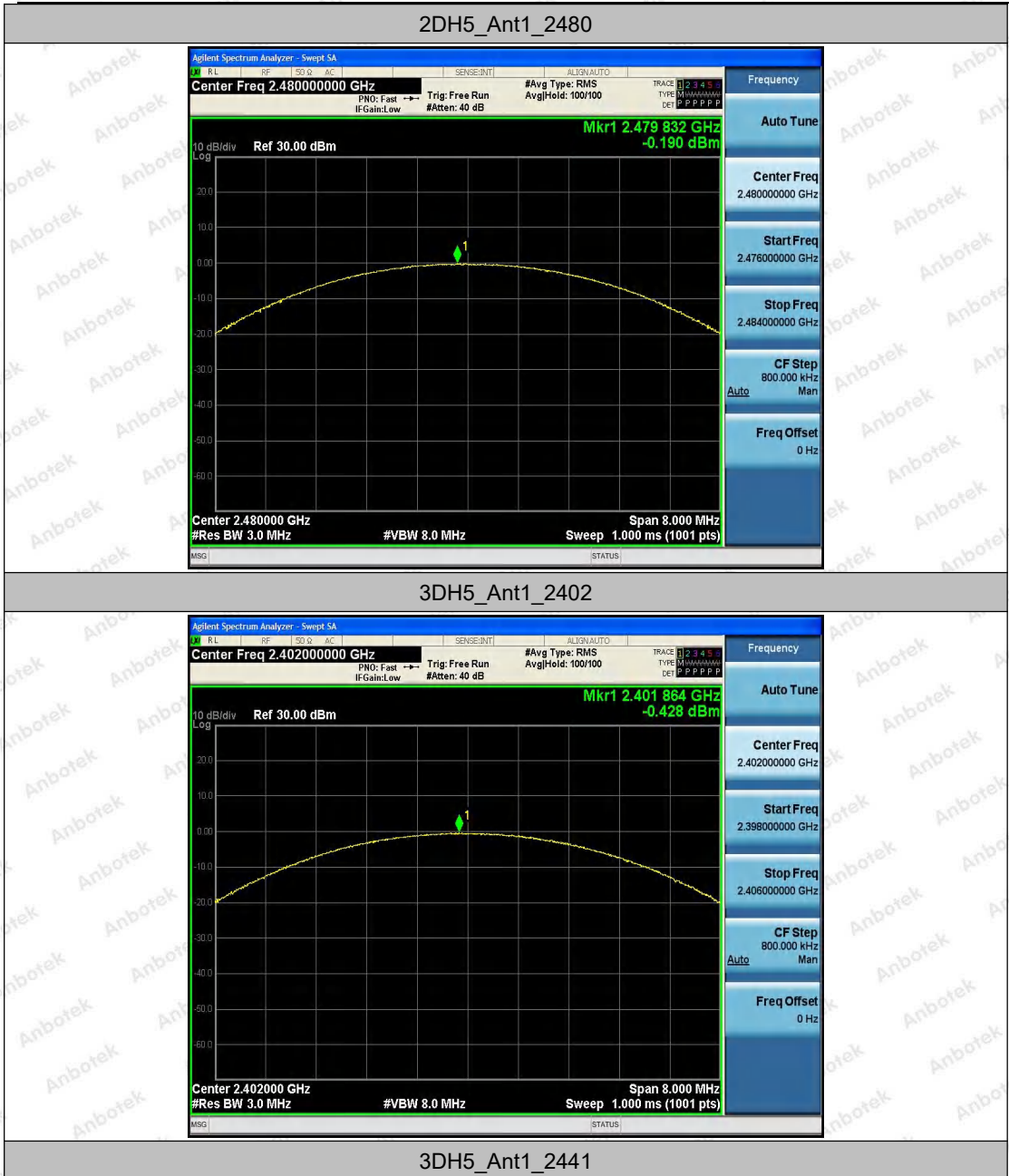


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.034	≥ 0.951	PASS
2DH5	Ant1	Hop	1.042	≥ 0.898	PASS
3DH5	Ant1	Hop	1.32	≥ 0.886	PASS

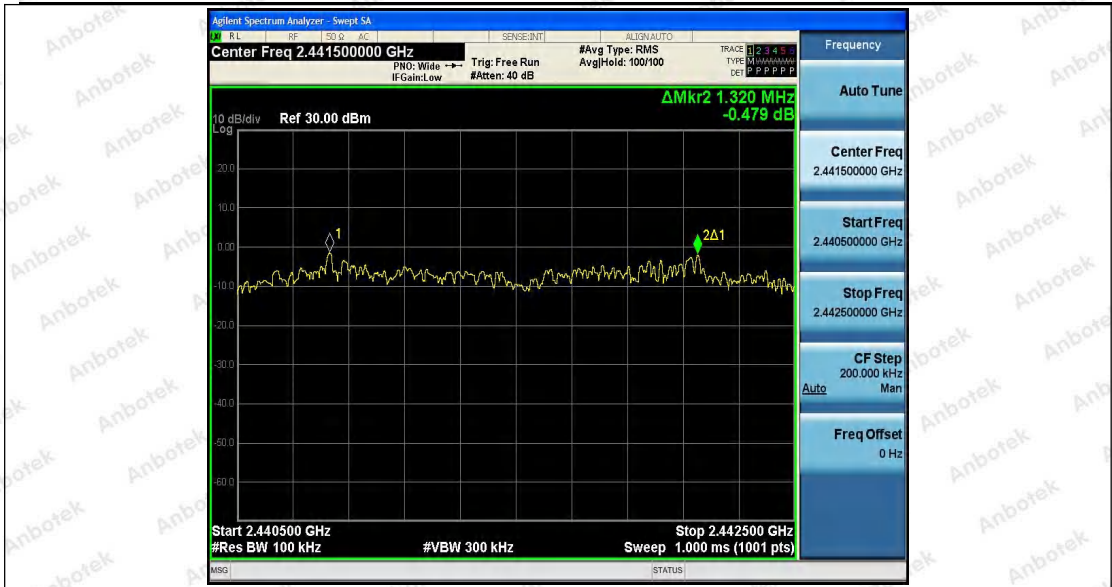
Test Graphs



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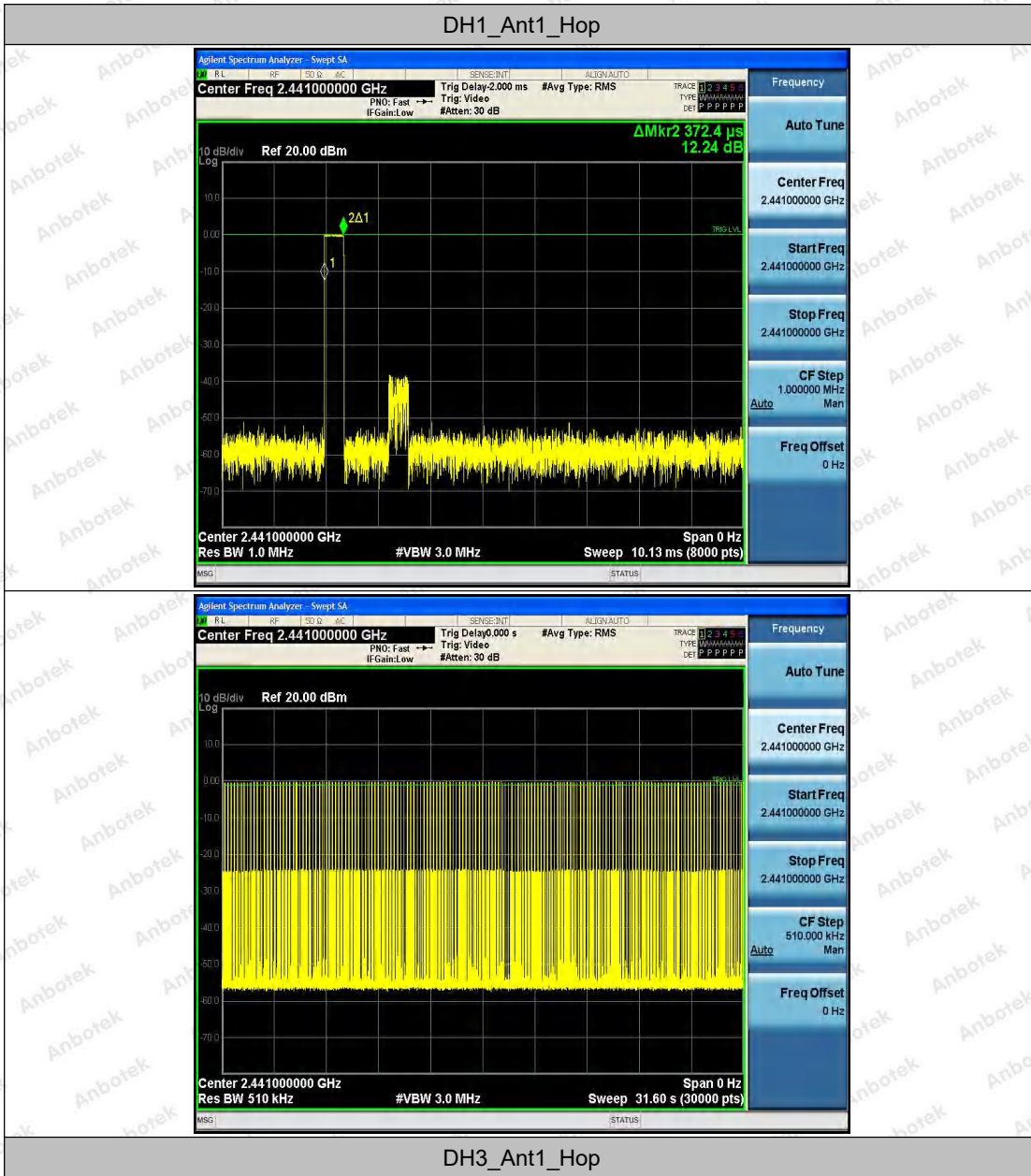
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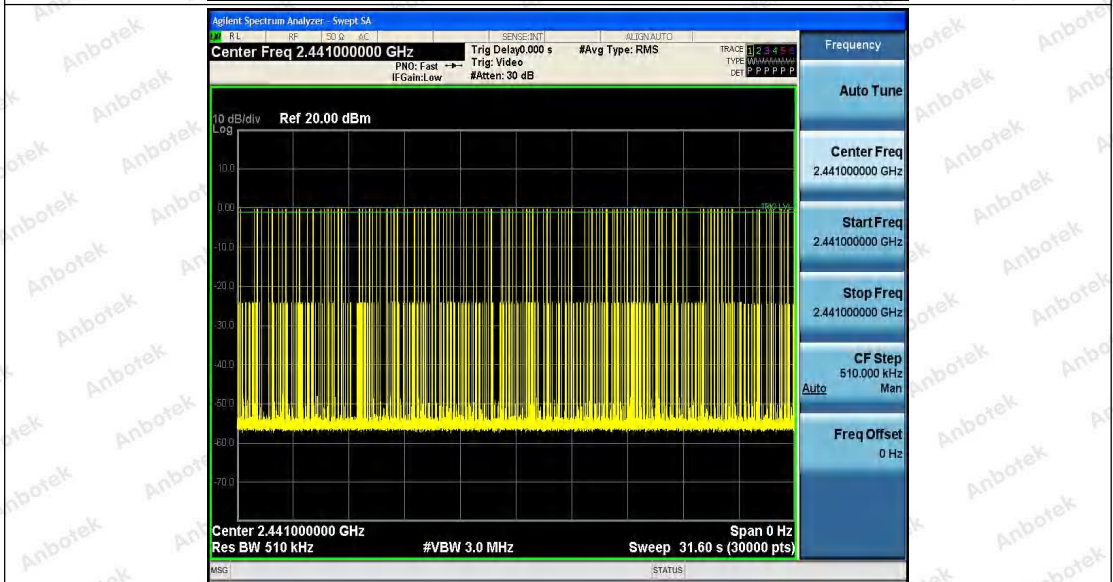
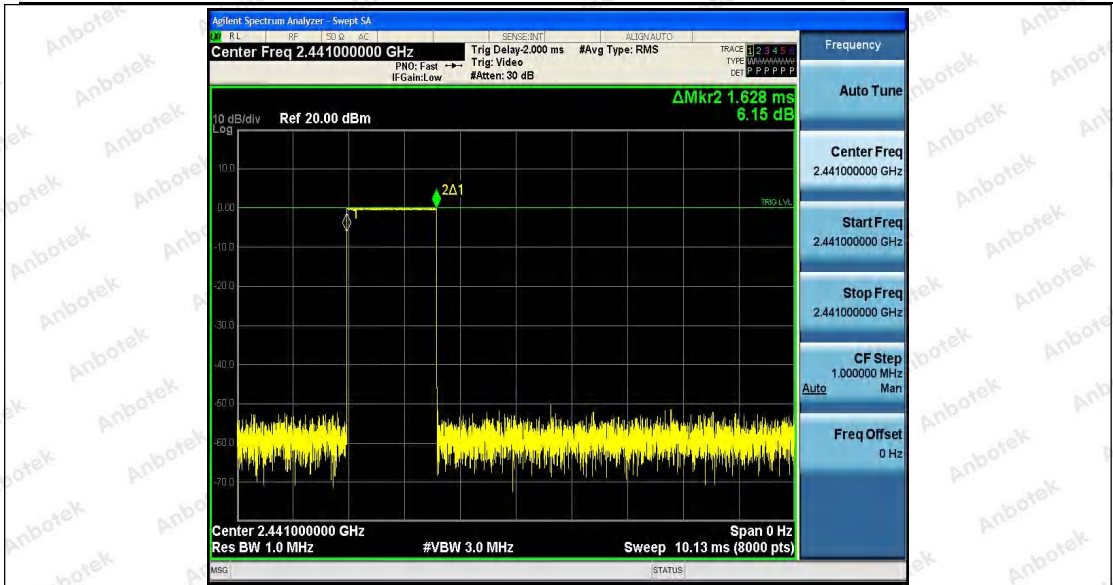
Appendix E: Time of occupancy

Test Result

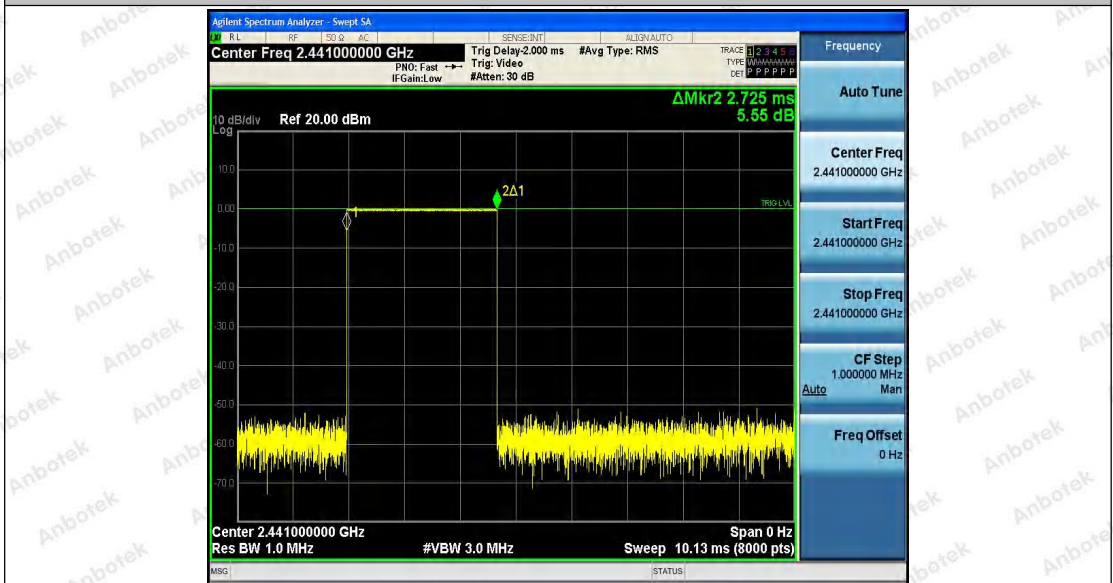
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.72	115	0.313	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

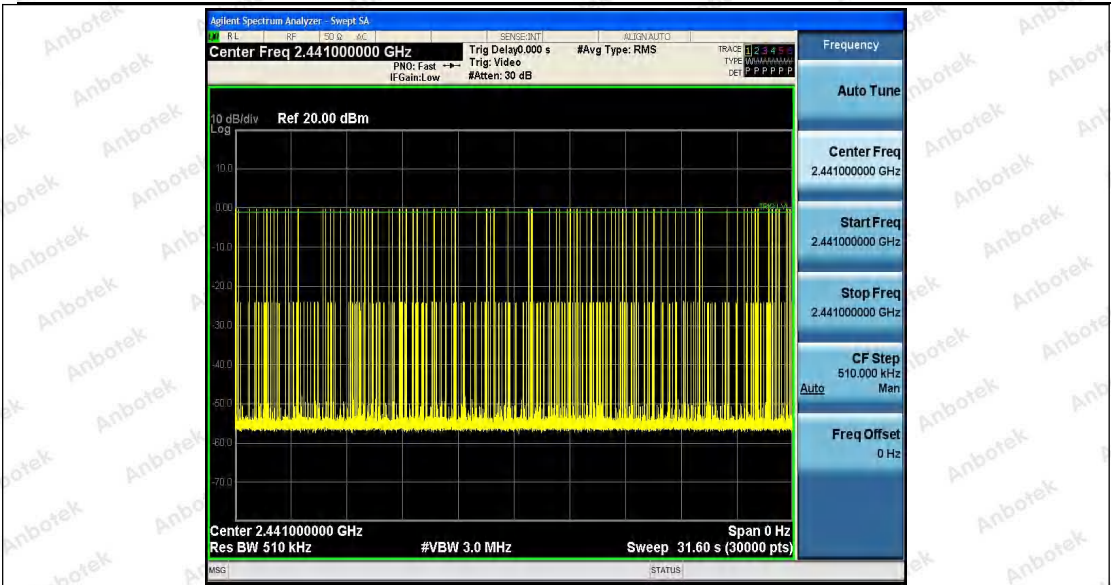


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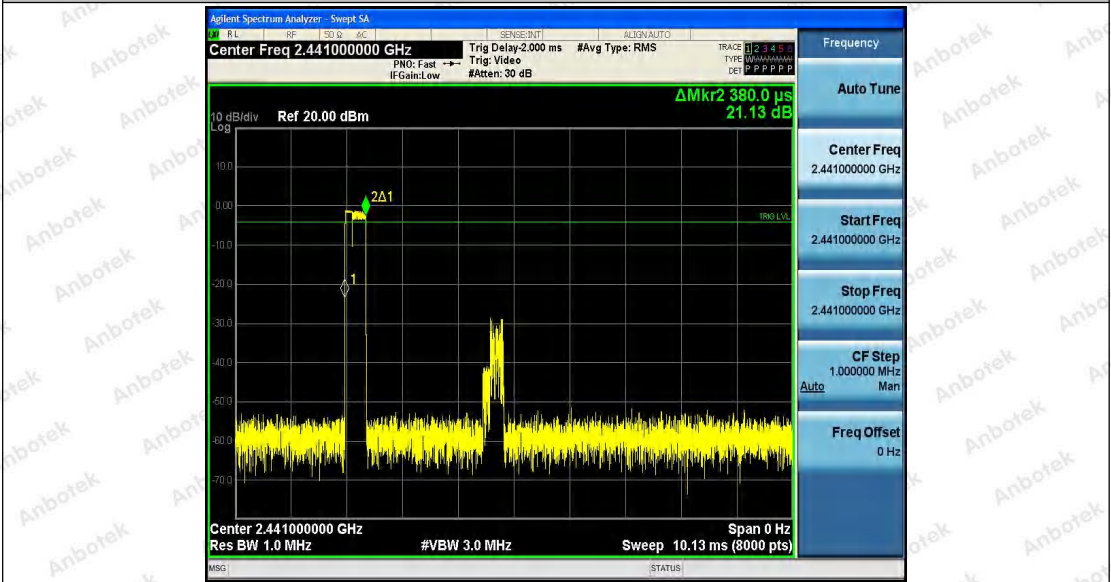
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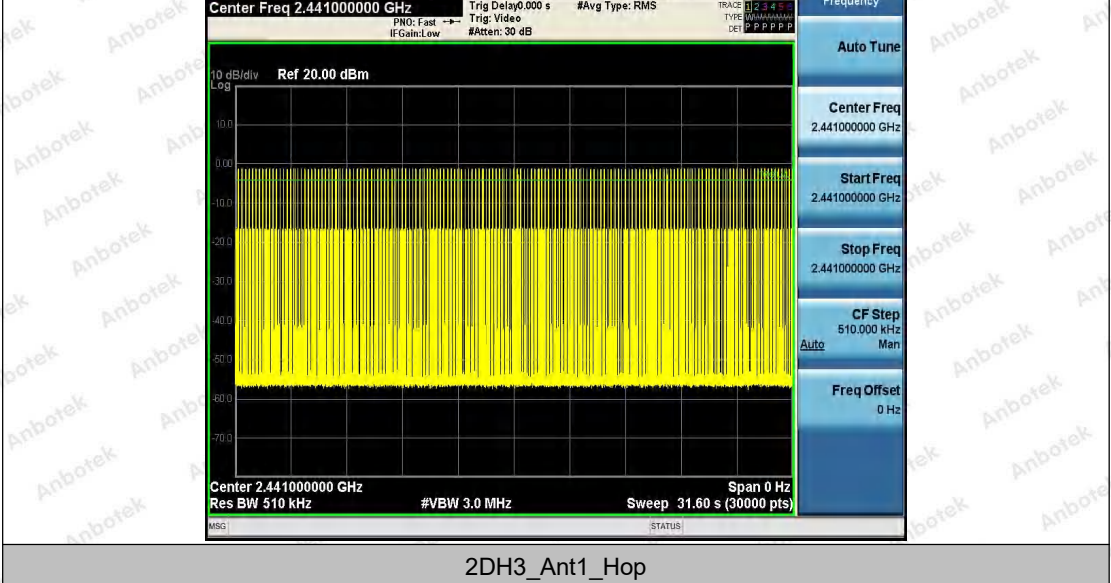
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2DH1_Ant1_Hop



2DH1_Ant1_Hop

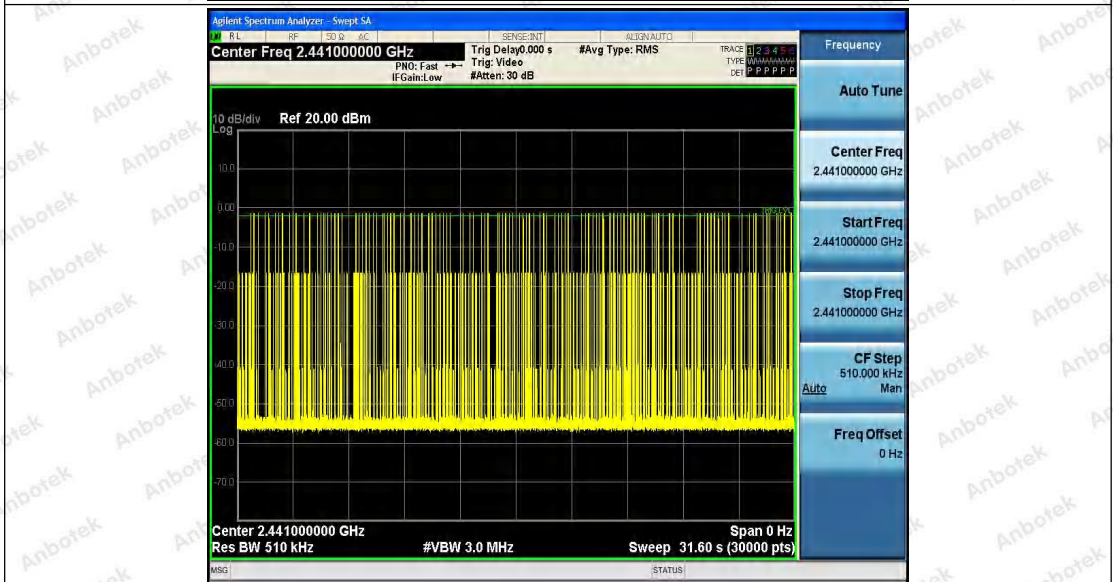
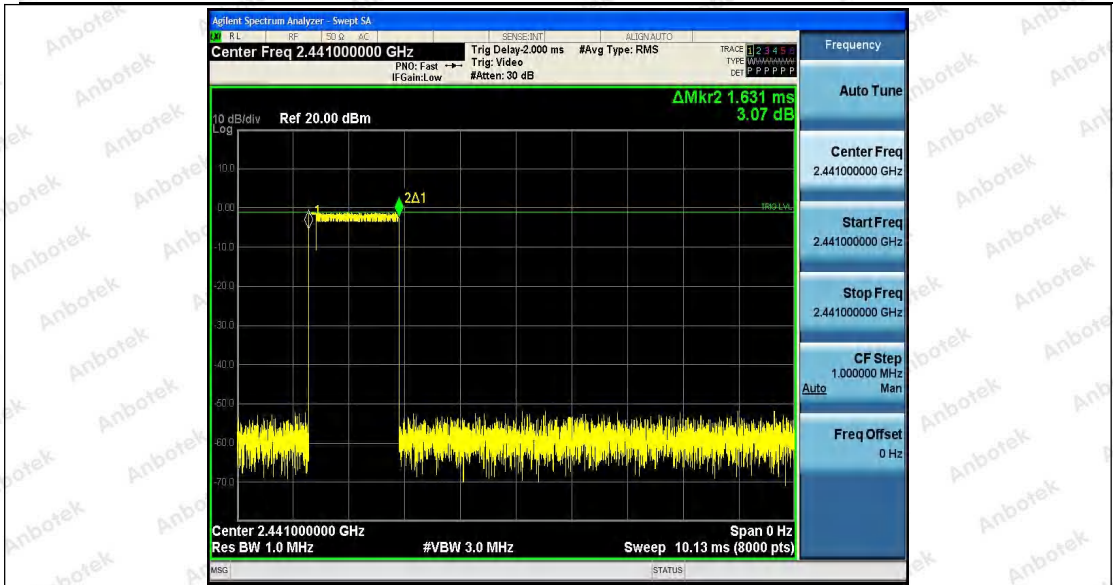


2DH3_Ant1_Hop

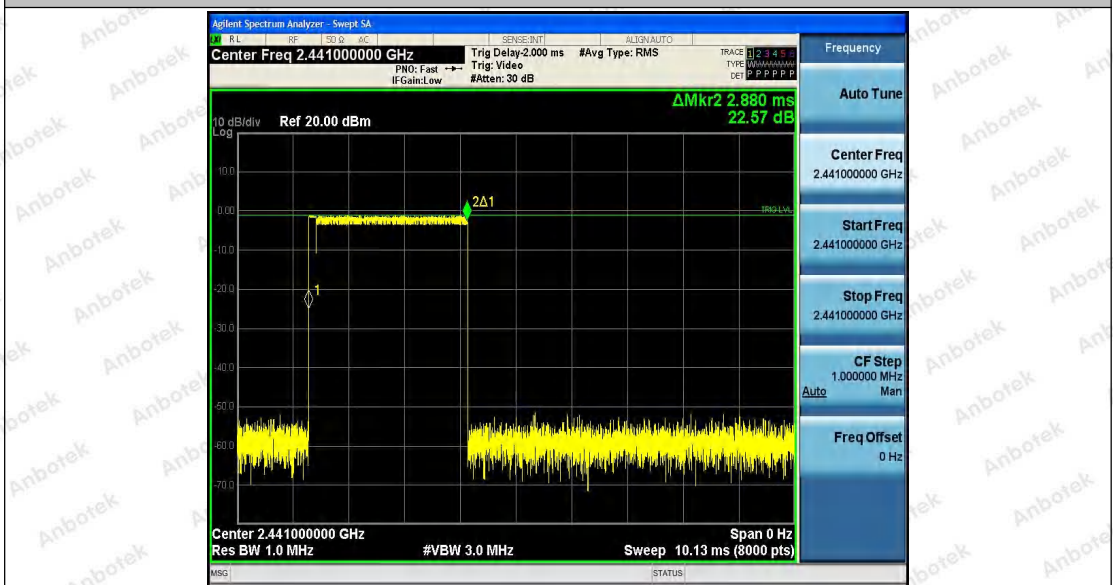
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2DH5_Ant1_Hop

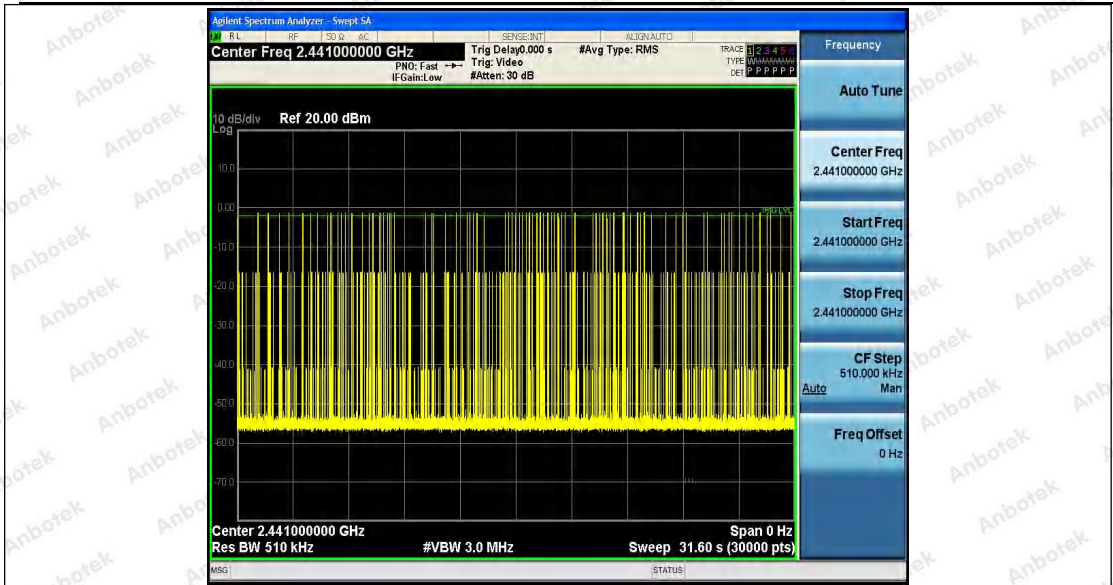


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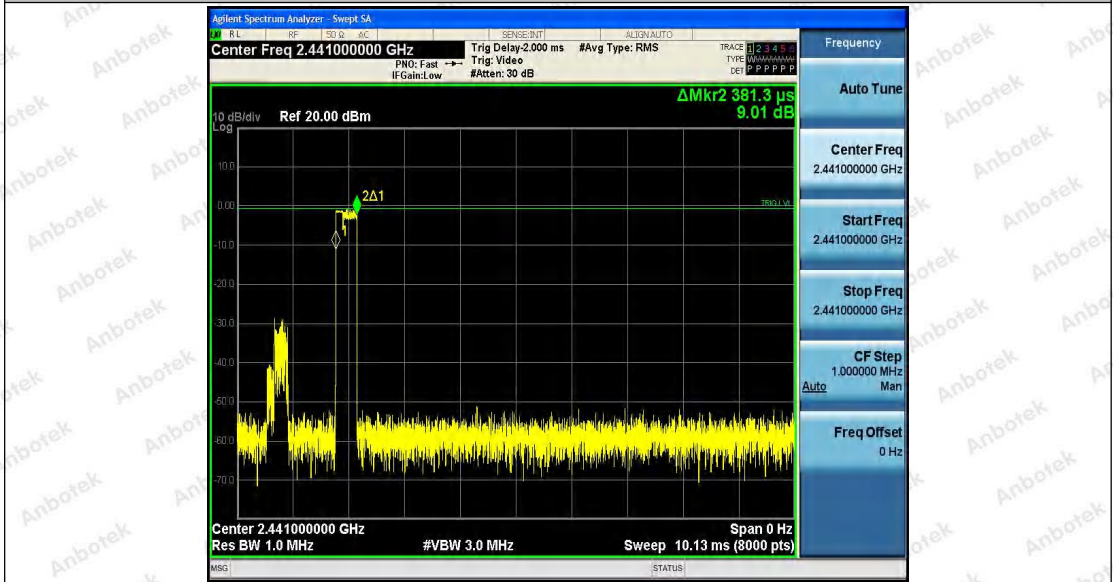
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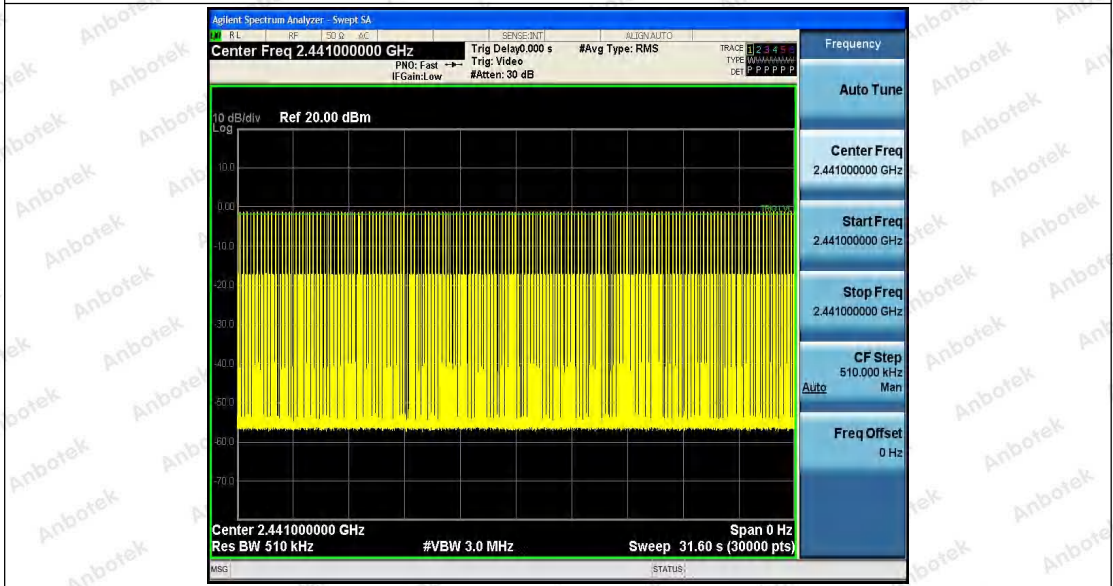
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3DH1_Ant1_Hop



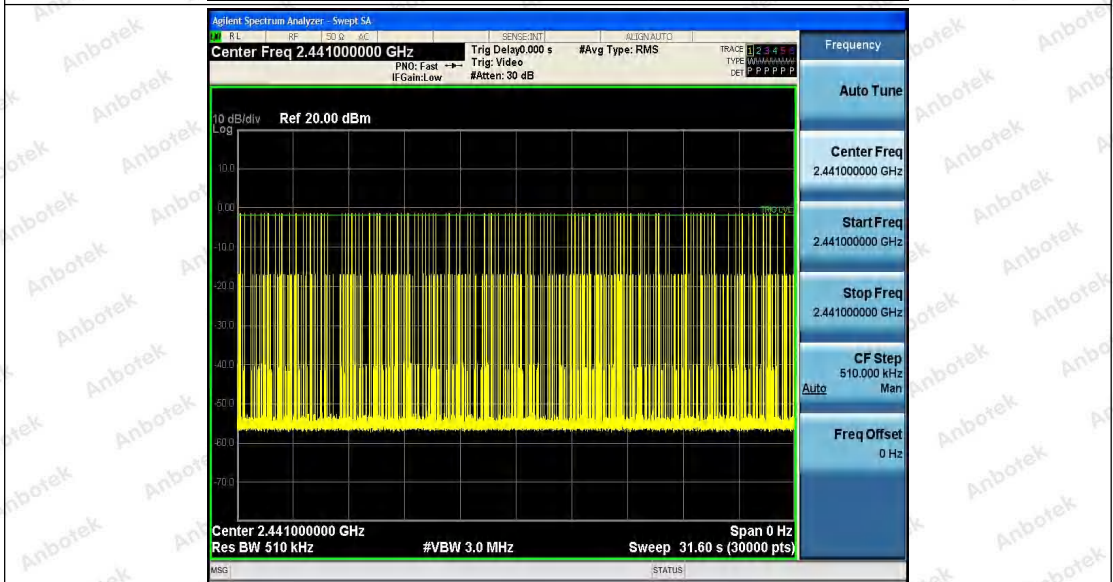
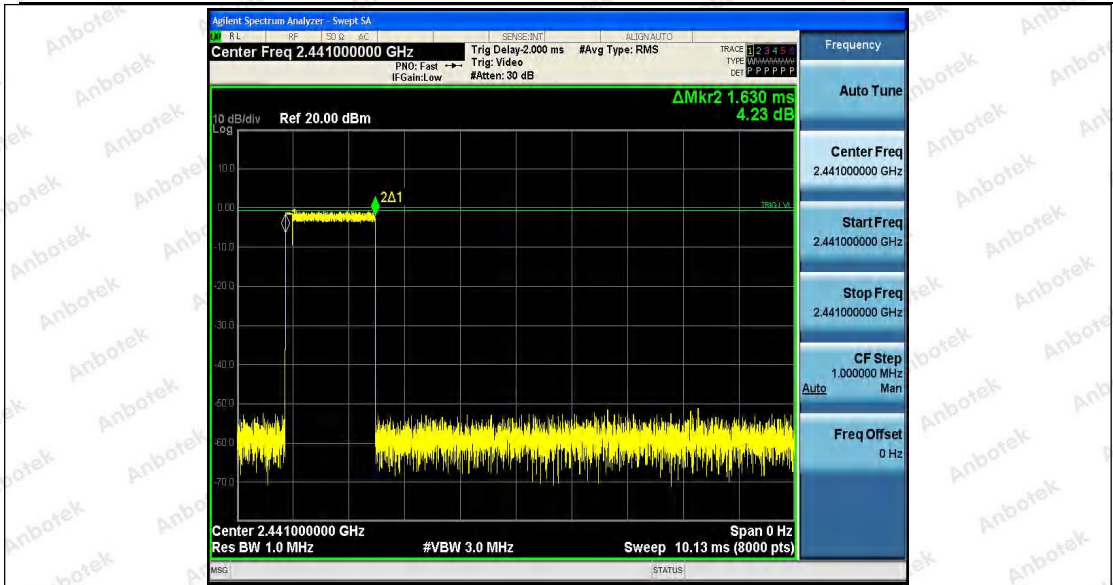
3DH3_Ant1_Hop



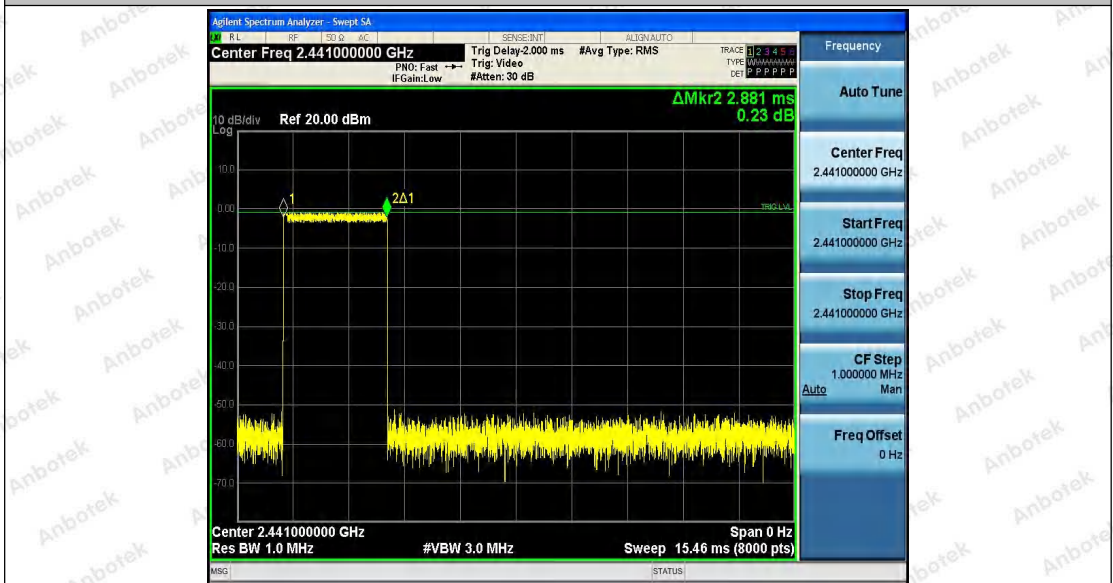
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3DH5_Ant1_Hop

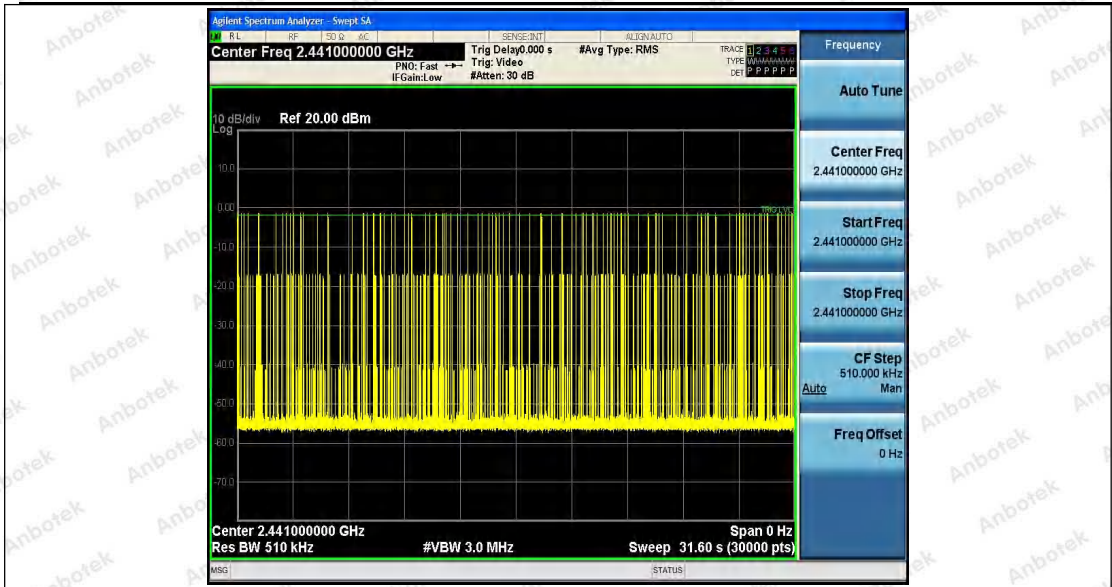


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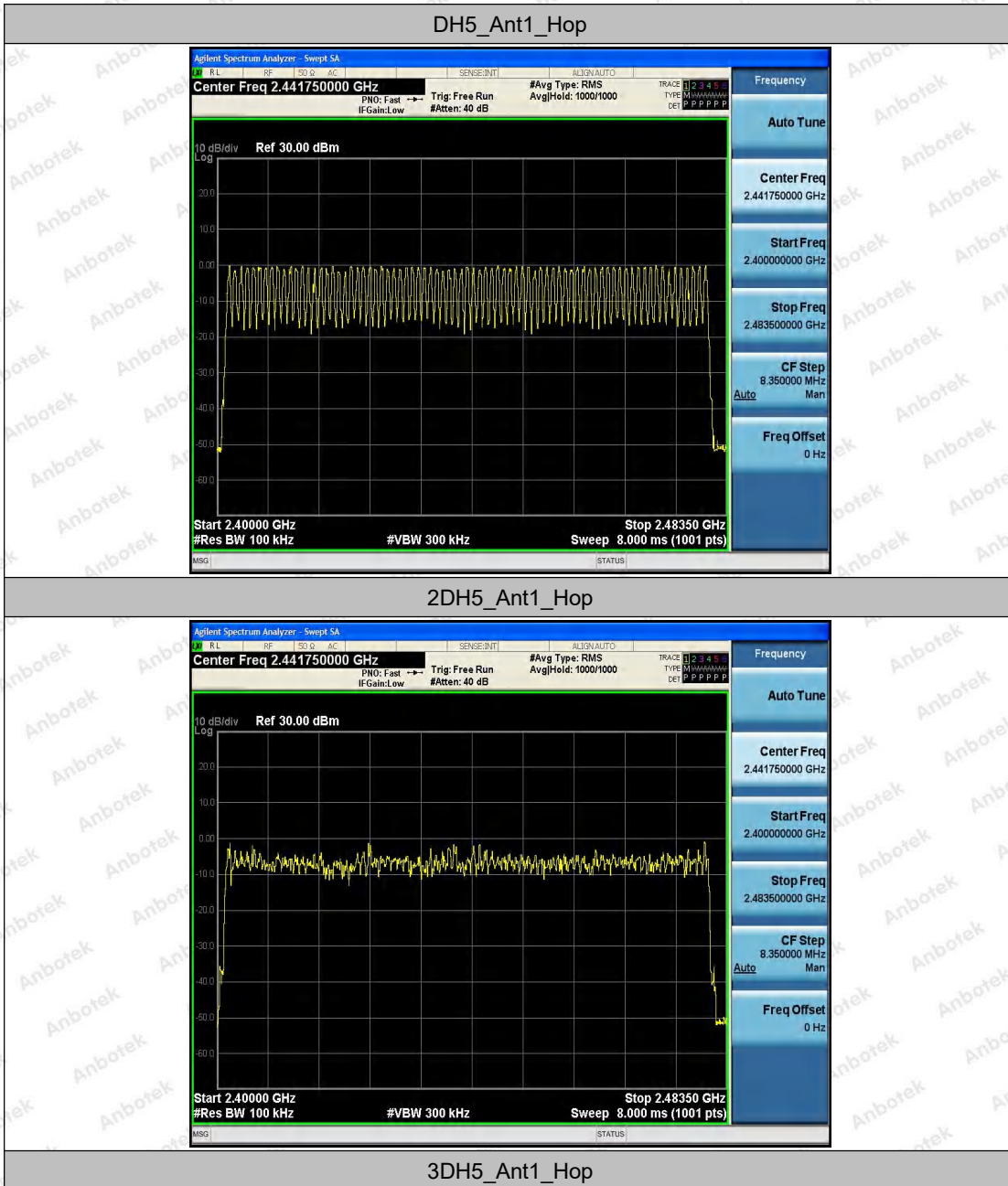
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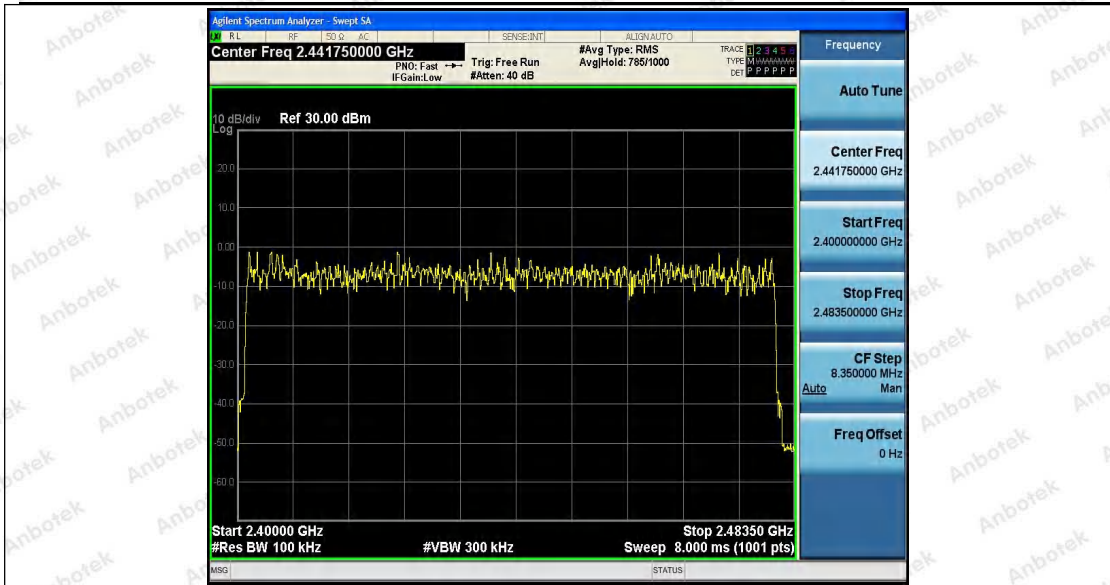
Appendix F: Number of hopping channels

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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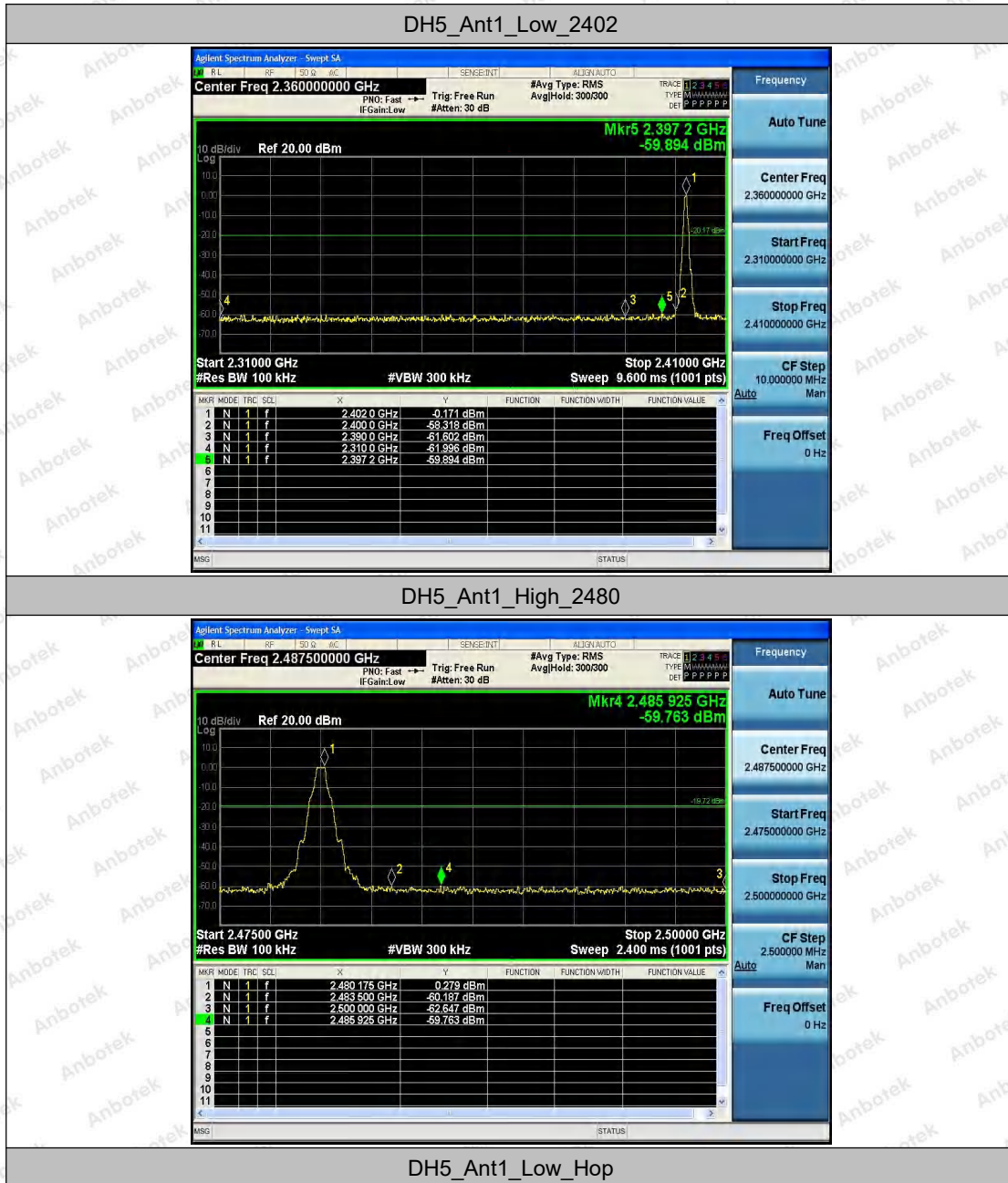
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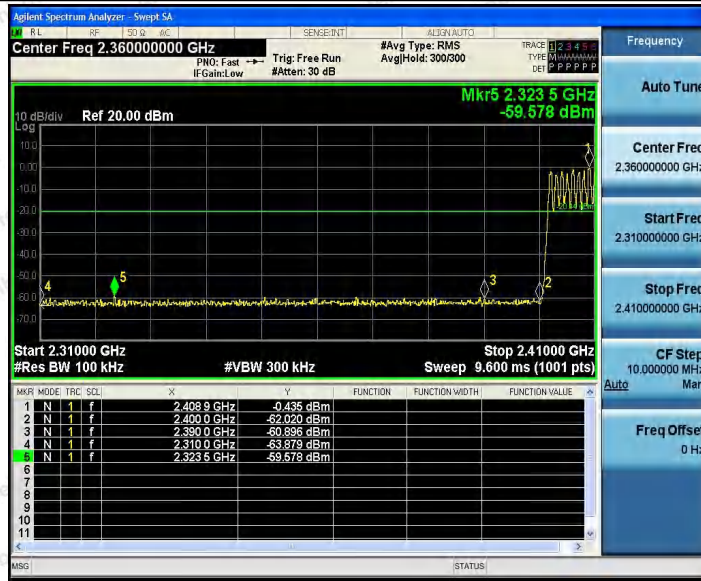
Appendix G: Band edge measurements

Test Result

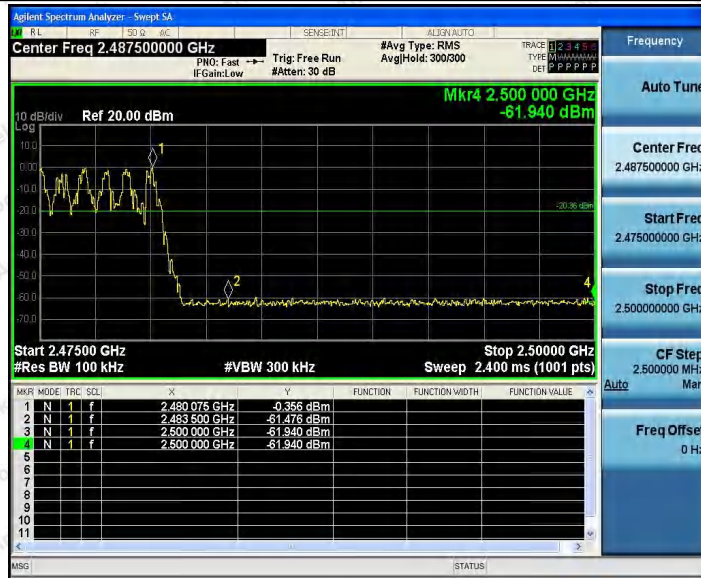
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.17	-59.89	≤-20.17	PASS
		High	2480	0.28	-59.76	≤-19.72	PASS
		Low	Hop	-0.44	-59.58	≤-20.44	PASS
		High	Hop	-0.36	-61.94	≤-20.36	PASS
2DH5	Ant1	Low	2402	-1.42	-56.69	≤-21.42	PASS
		High	2480	-0.93	-59.57	≤-20.93	PASS
		Low	Hop	-4.15	-59.85	≤-24.15	PASS
		High	Hop	-3.23	-62.29	≤-23.23	PASS
3DH5	Ant1	Low	2402	-1.67	-57.2	≤-21.67	PASS
		High	2480	-1.59	-58.56	≤-21.59	PASS
		Low	Hop	-4.56	-52.62	≤-24.56	PASS
		High	Hop	-2.99	-60.85	≤-22.99	PASS

Test Graphs

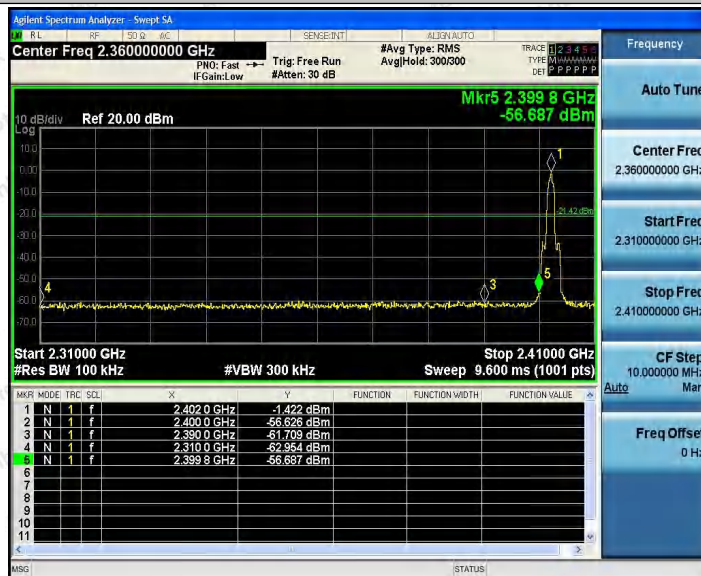




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



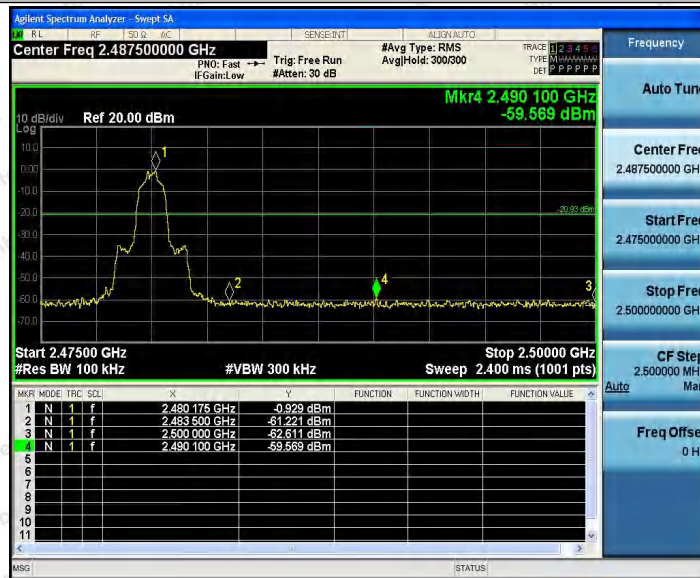
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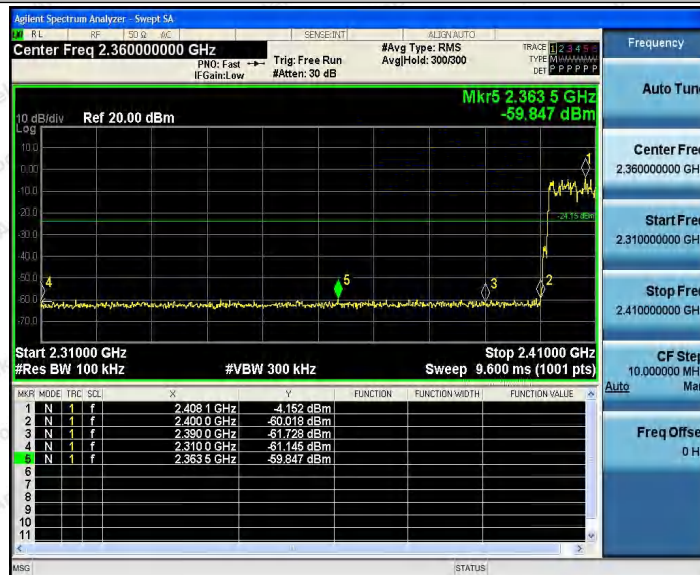
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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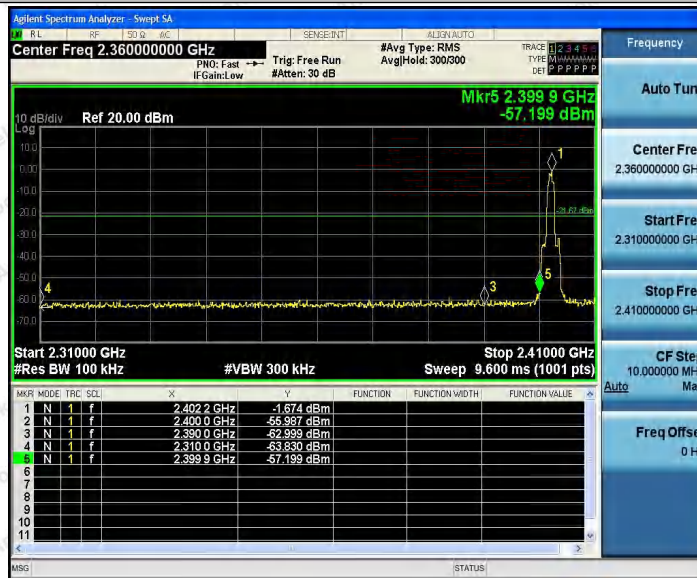
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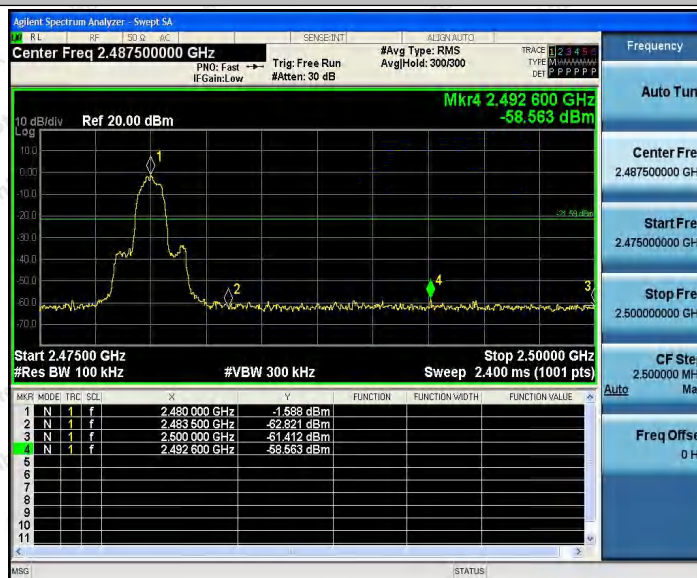
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

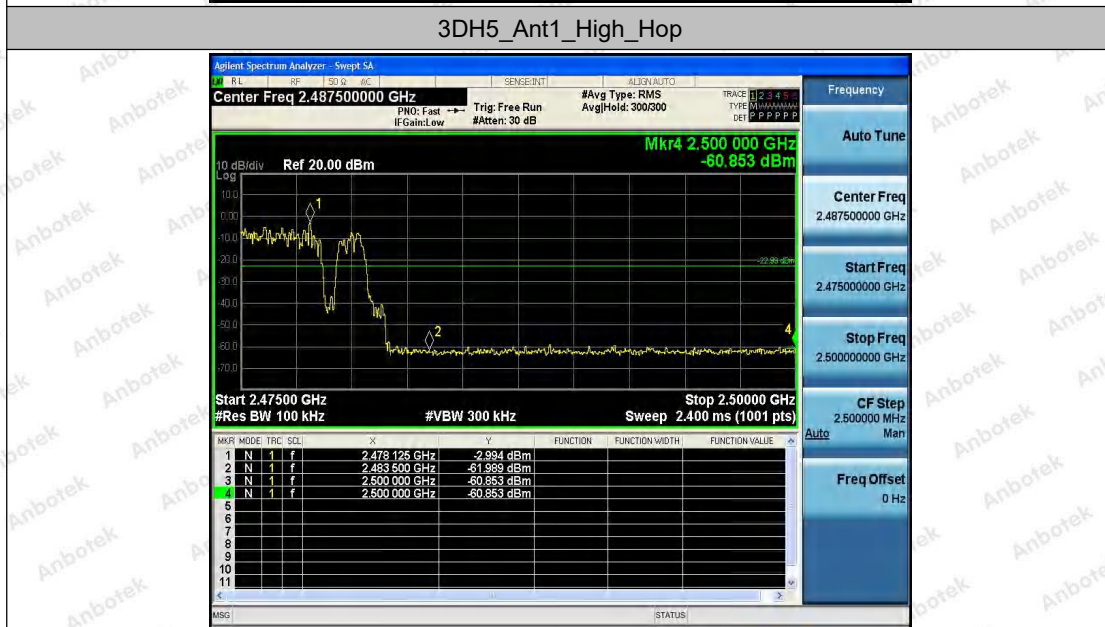
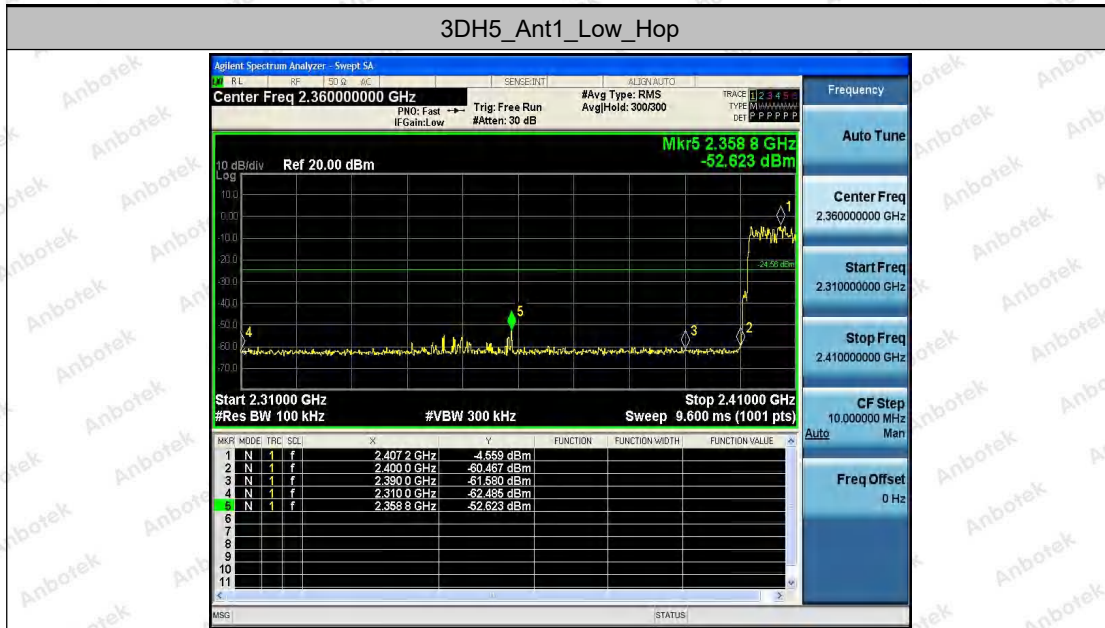


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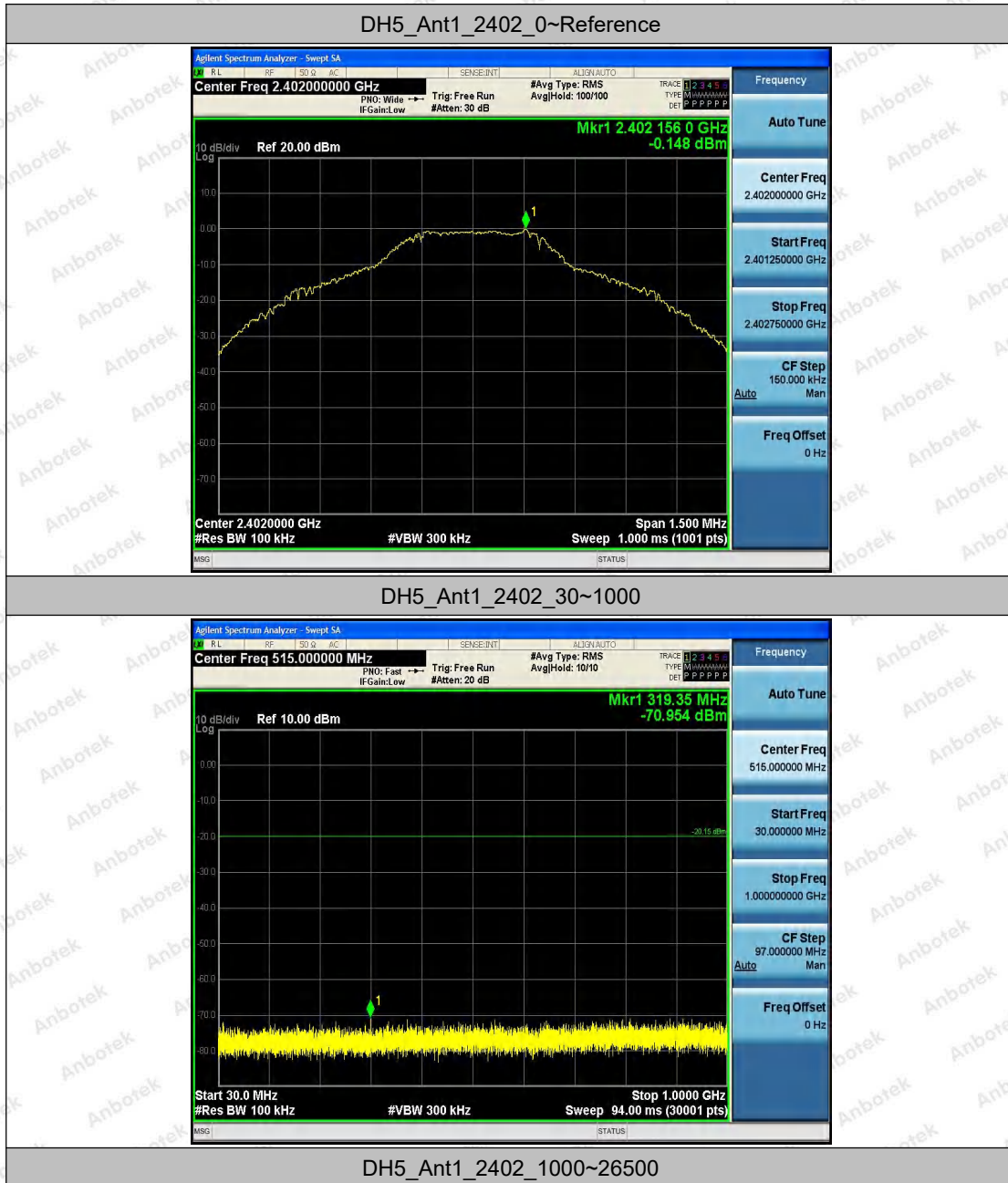
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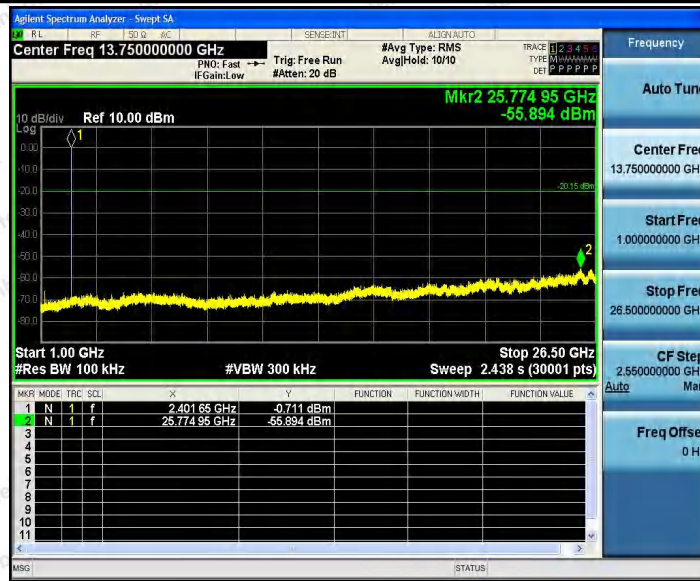
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-70.95	≤-20.15	PASS
			1000~26500	-0.15	-55.89	≤-20.15	PASS
		2441	Reference	-0.65	-0.65	---	PASS
			30~1000	-0.65	-70.6	≤-20.65	PASS
			1000~26500	-0.65	-55.29	≤-20.65	PASS
		2480	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-70.51	≤-19.73	PASS
			1000~26500	0.27	-55.48	≤-19.73	PASS
2DH5	Ant1	2402	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-70.26	≤-21.75	PASS
			1000~26500	-1.75	-55.57	≤-21.75	PASS
		2441	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-70.17	≤-21.6	PASS
			1000~26500	-1.60	-55.9	≤-21.6	PASS
		2480	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-70.35	≤-21.27	PASS
			1000~26500	-1.27	-54.9	≤-21.27	PASS
3DH5	Ant1	2402	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-70.7	≤-21.39	PASS
			1000~26500	-1.39	-55.84	≤-21.39	PASS
		2441	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-70.47	≤-21.36	PASS
			1000~26500	-1.36	-55.17	≤-21.36	PASS
		2480	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-70.55	≤-20.98	PASS
			1000~26500	-0.98	-55.29	≤-20.98	PASS

Test Graphs

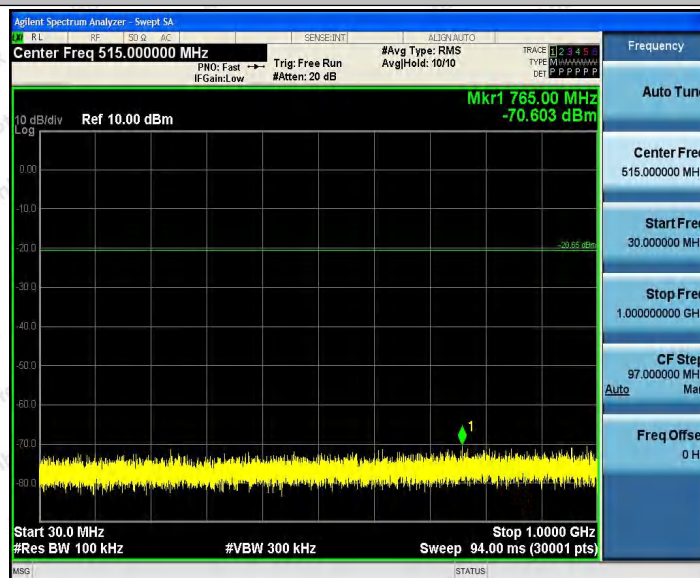




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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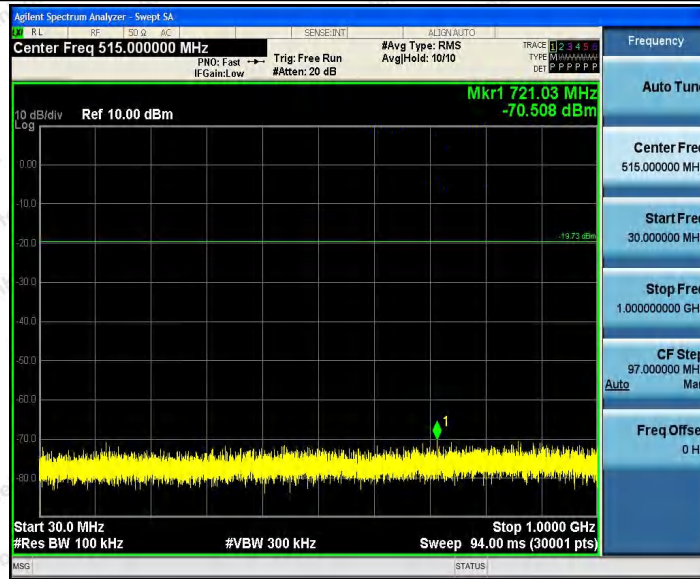
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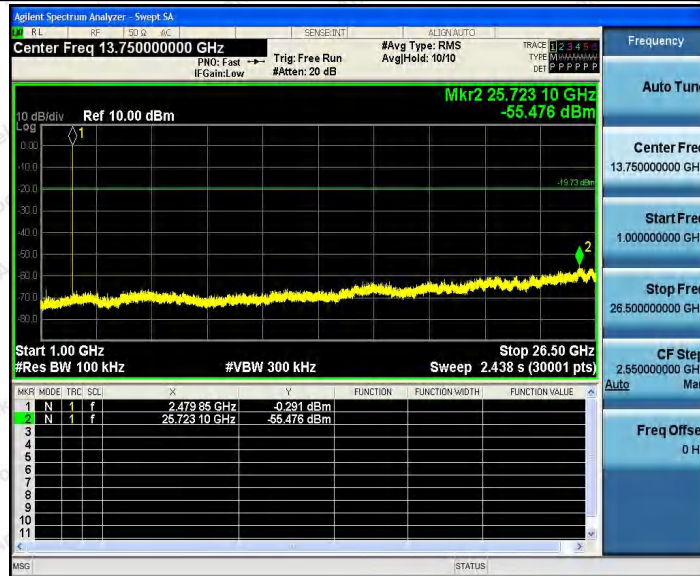
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

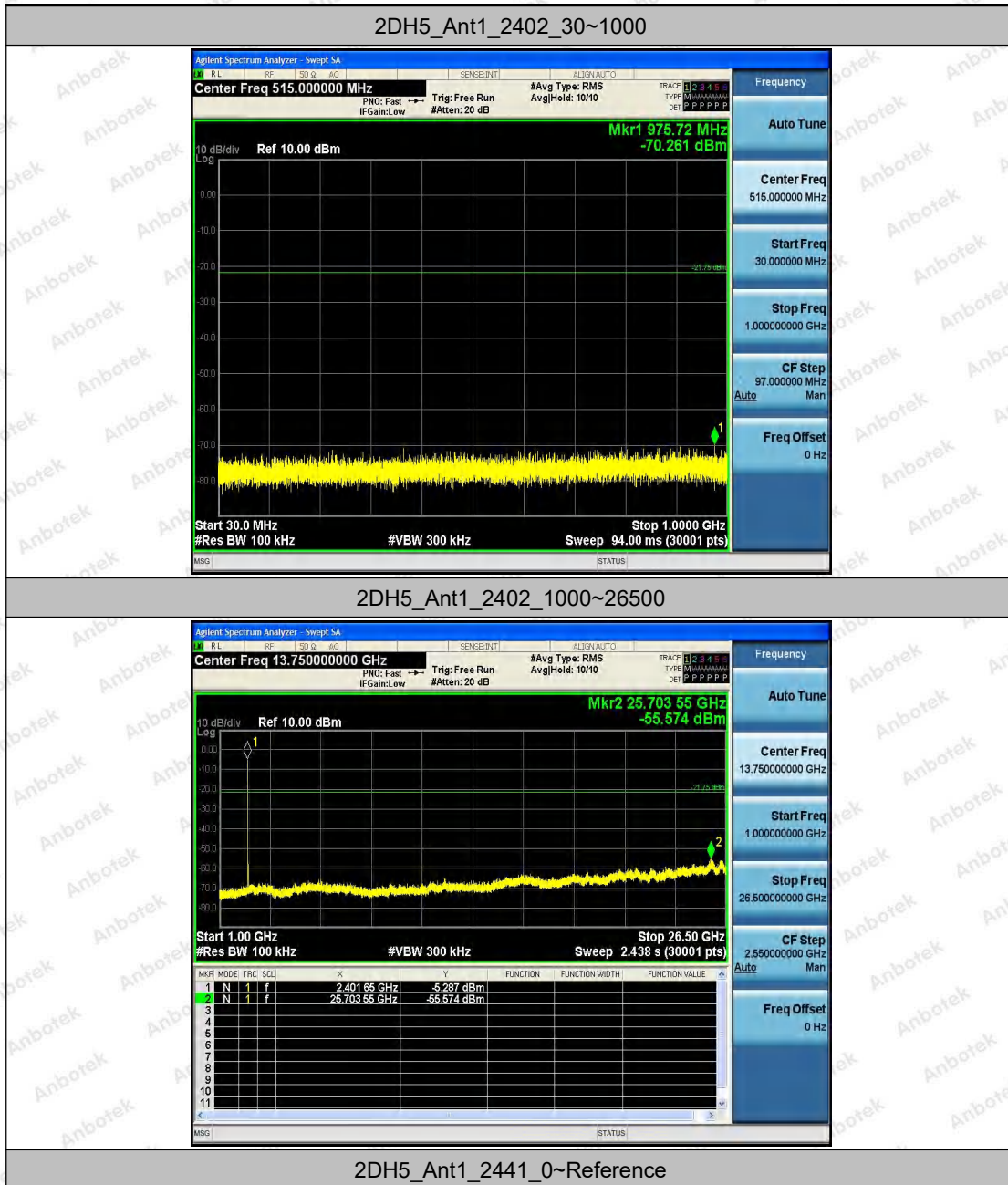


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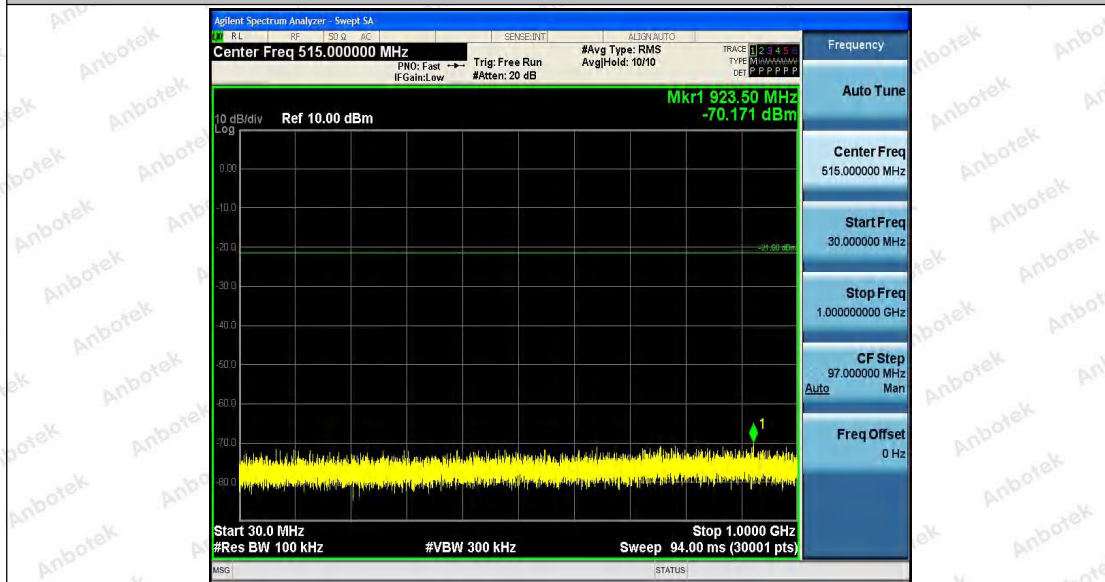
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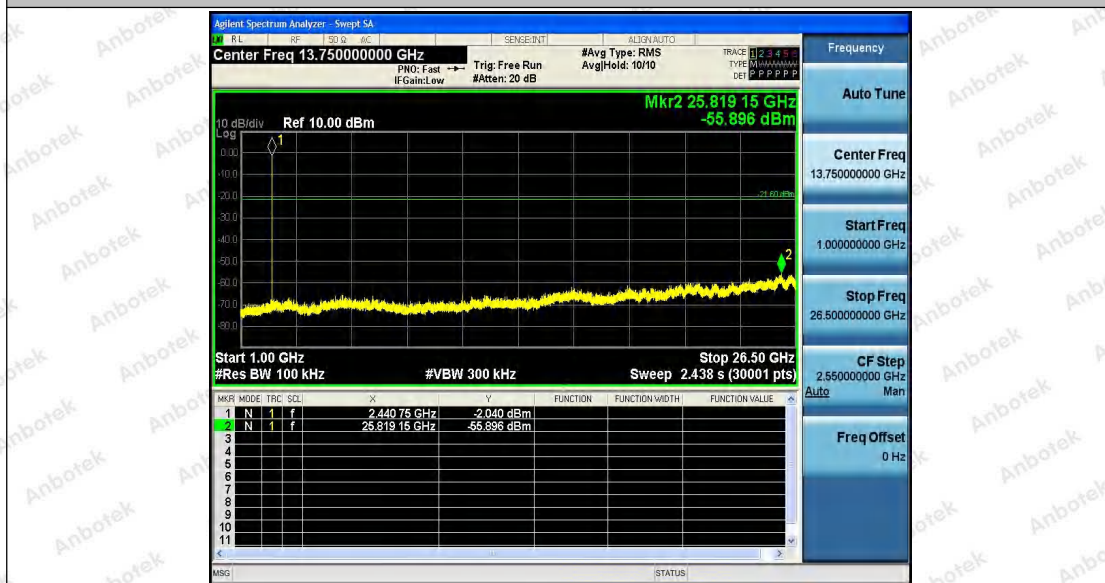
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

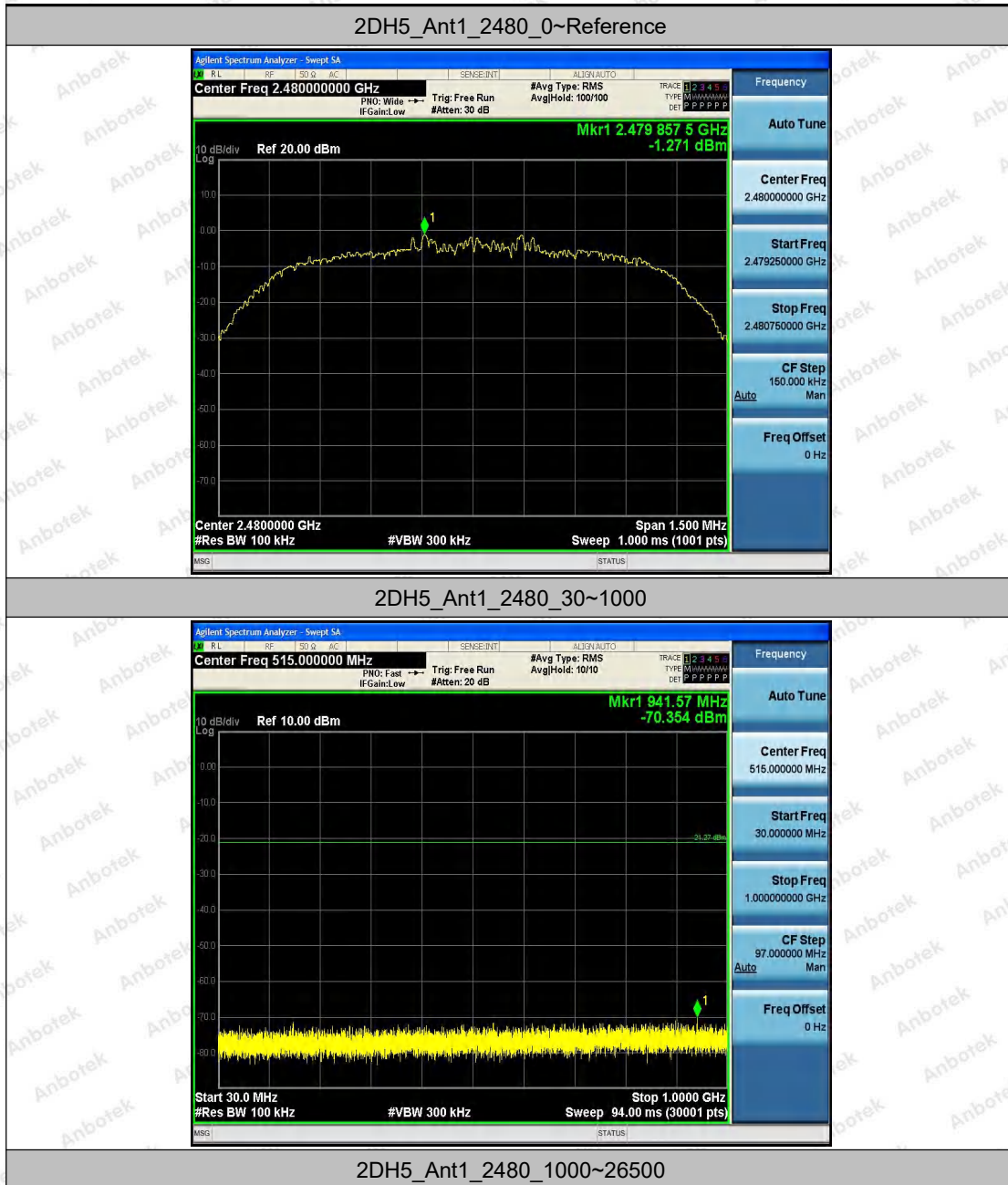


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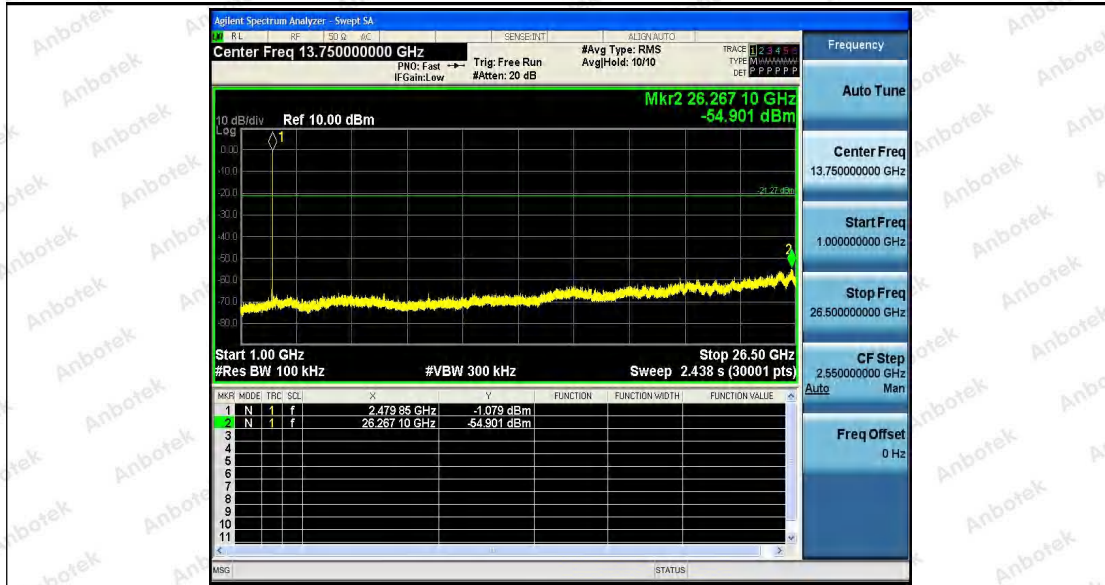


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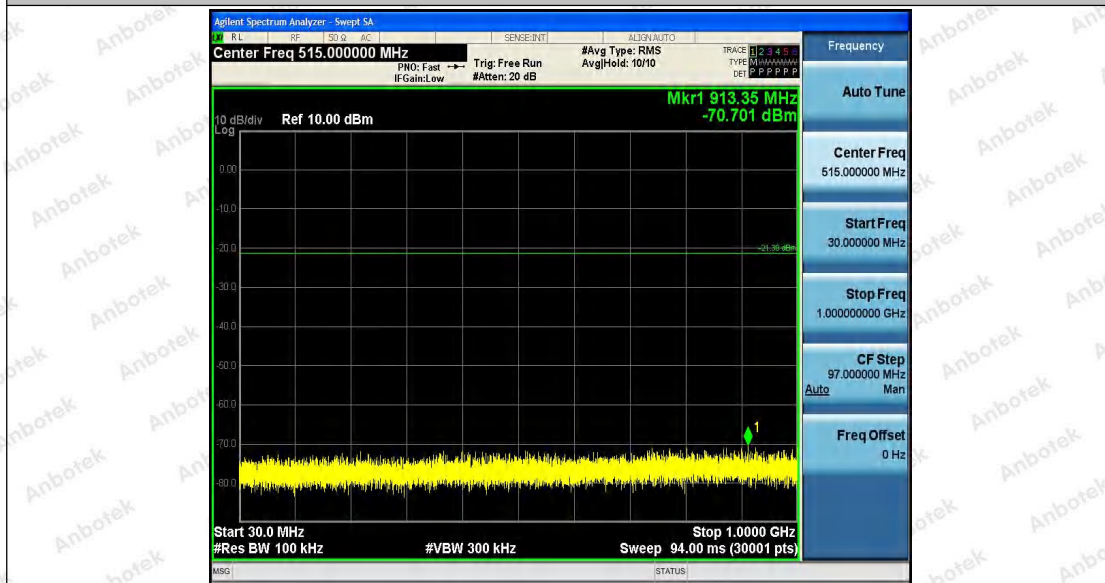
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

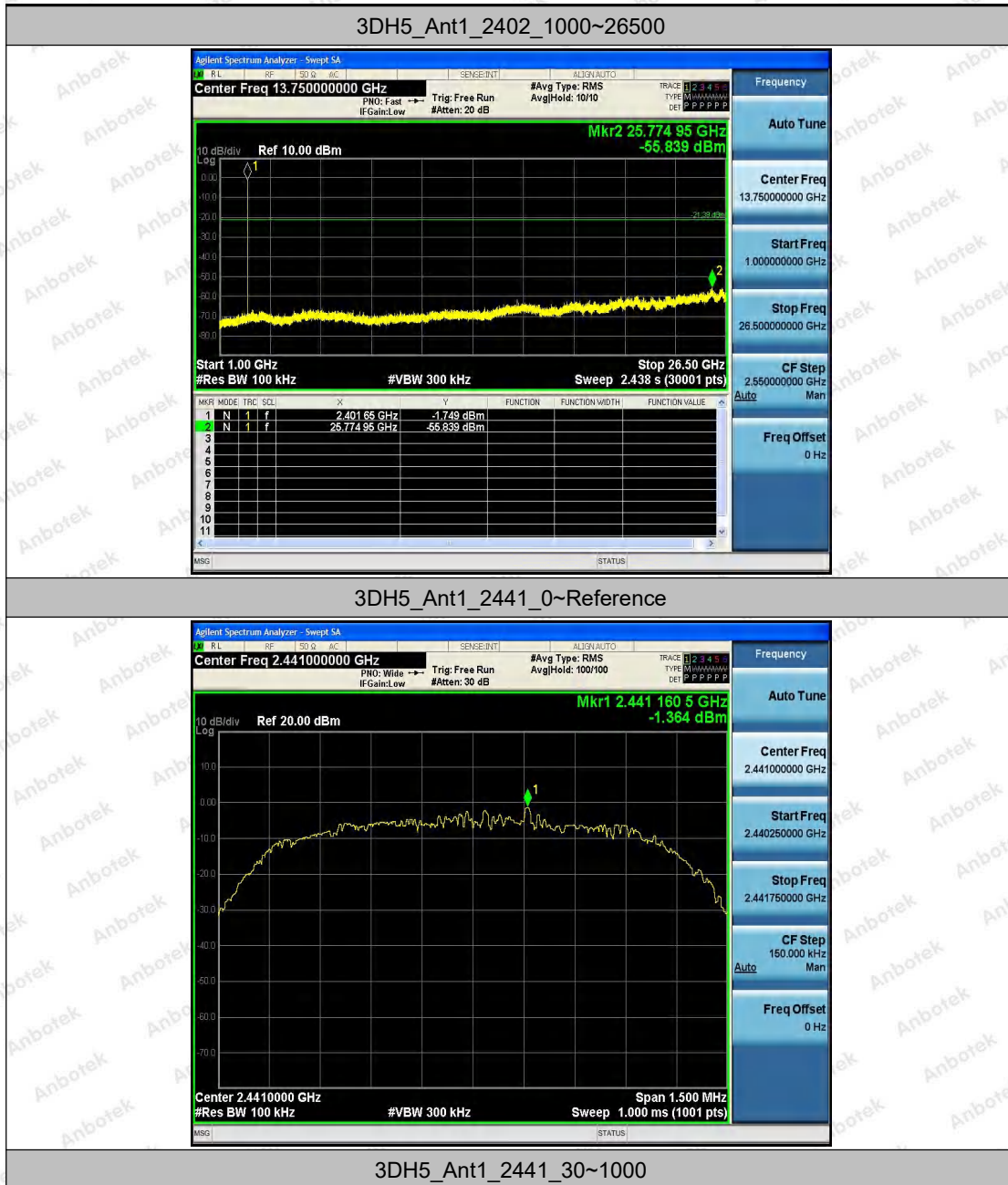


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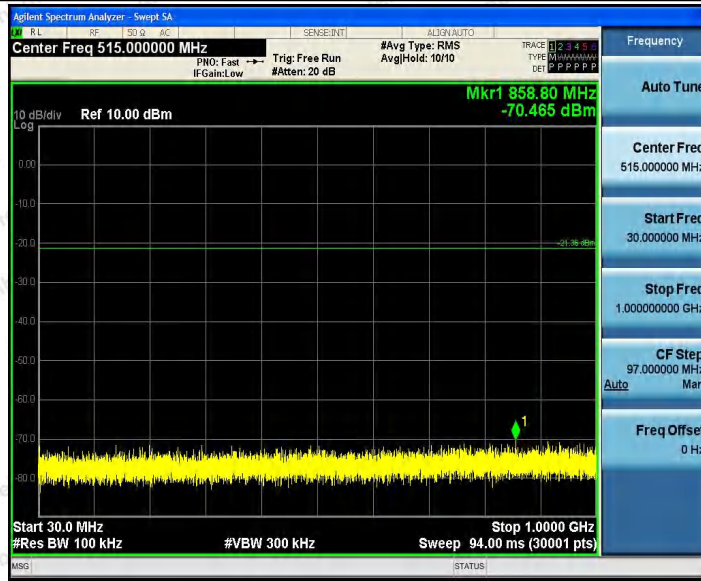


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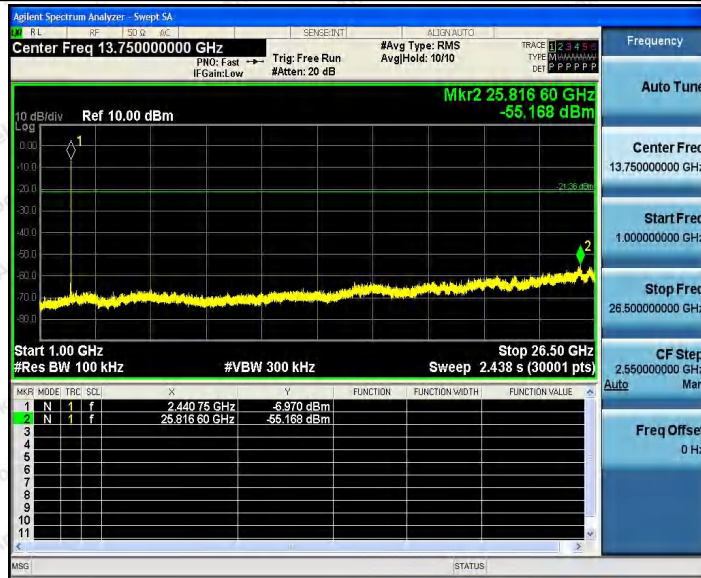
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

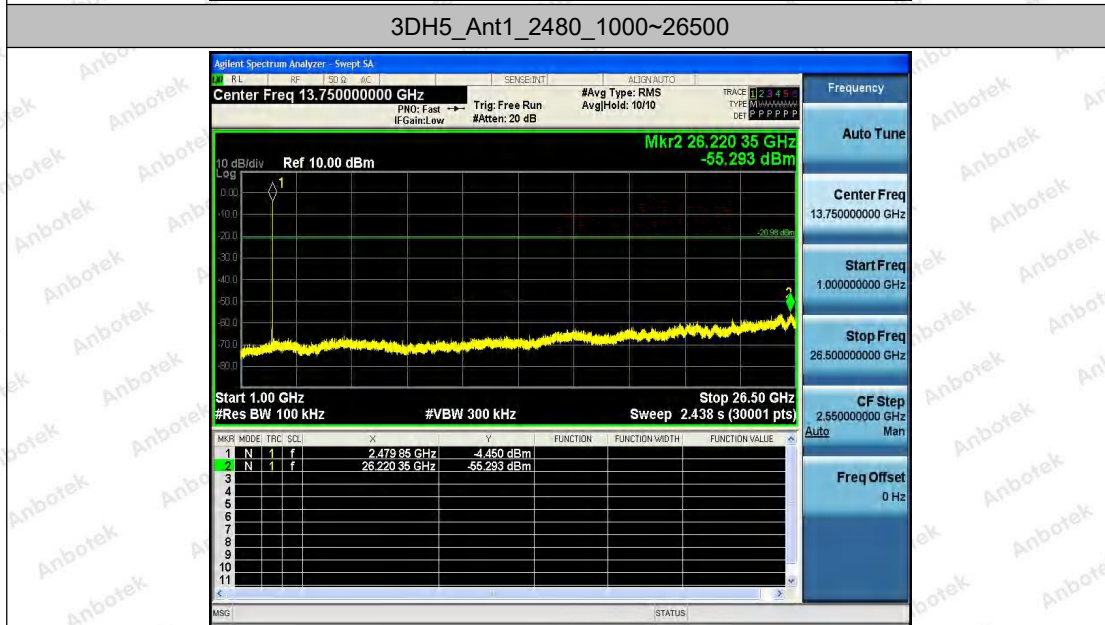
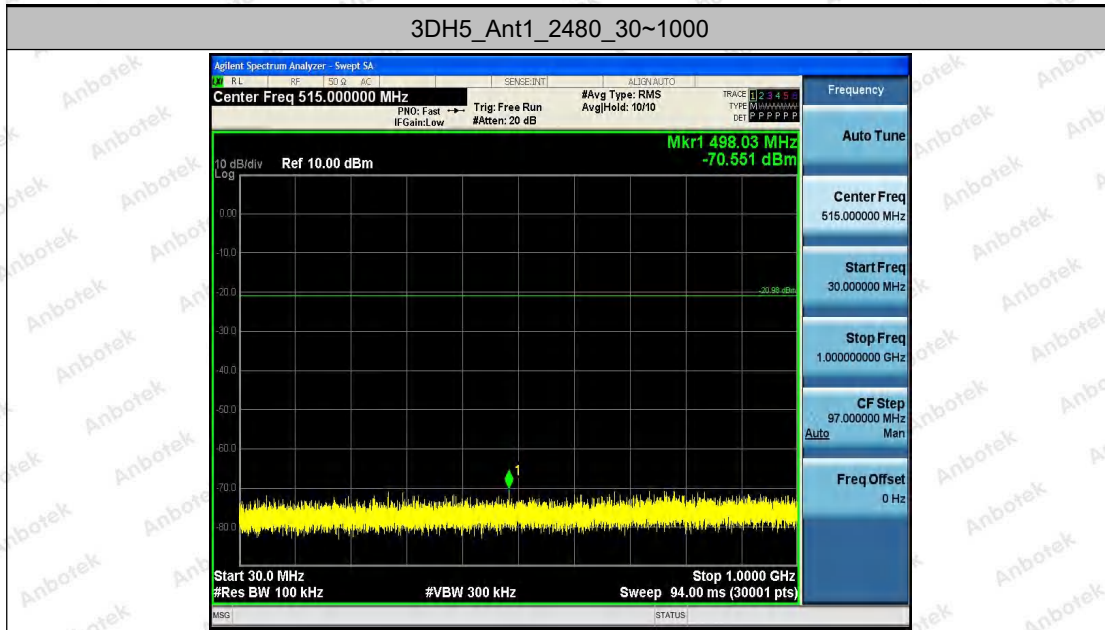


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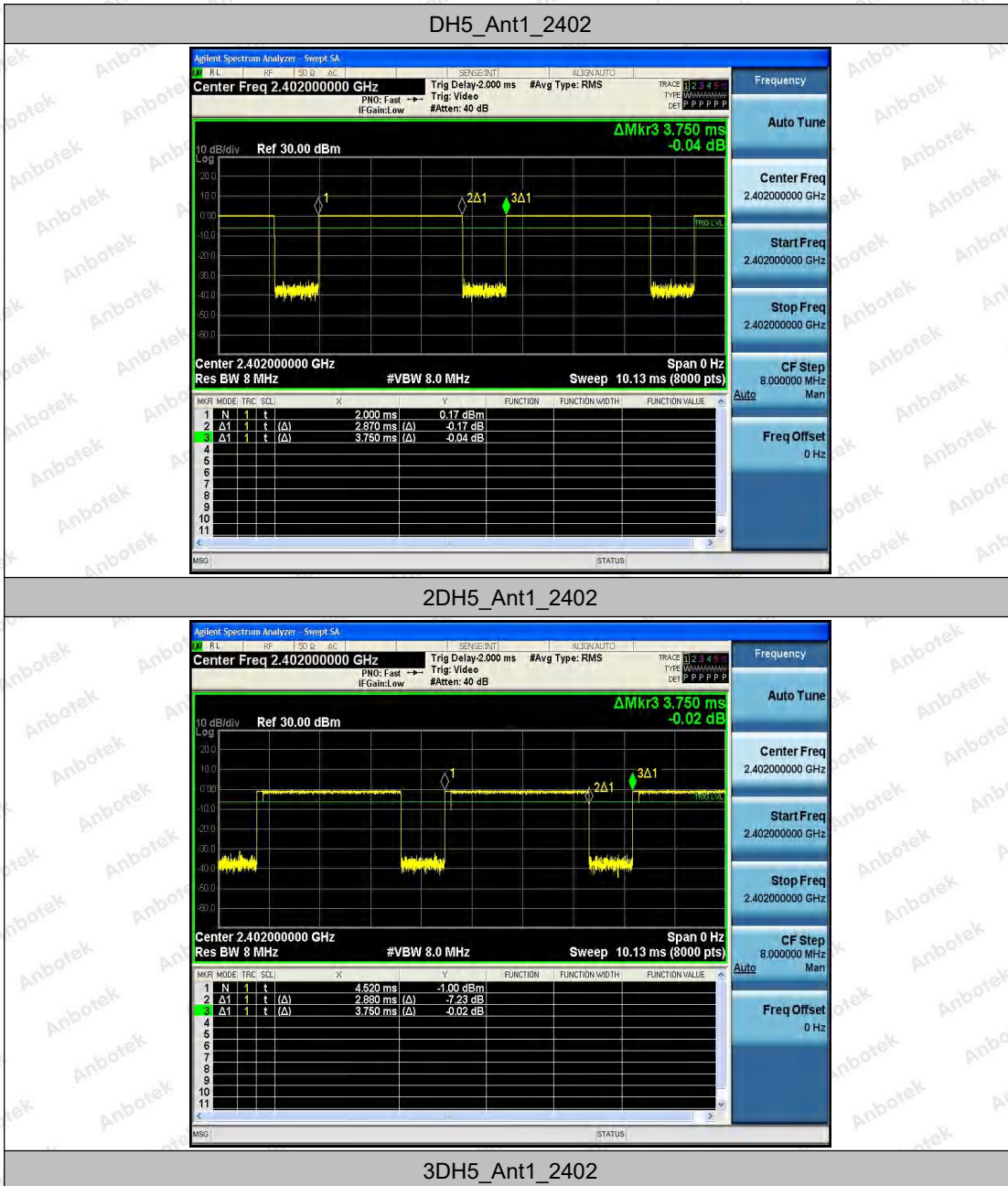
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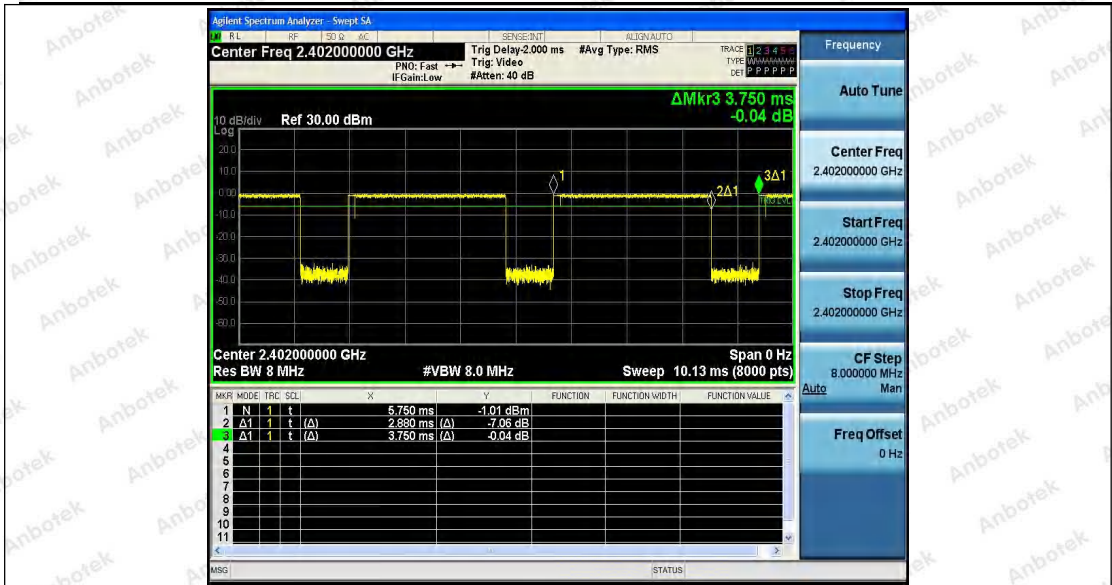
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---