

Appendix Test Data

Report No.:	18220WC20079401	Test Sample No.:	1-2-2
Start Test Date:	2022.4.15	Finish Test Date:	2022.5.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
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	0.942	2401.538	2402.480	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.942	2479.538	2480.480	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.332	2440.334	2441.666	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.308	2401.343	2402.651	---	PASS
		2441	1.317	2440.343	2441.660	---	PASS
		2480	1.275	2479.352	2480.627	---	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	0.88918	2401.553	2402.442	---	PASS
		2441	0.89774	2440.555	2441.452	---	PASS
		2480	0.90630	2479.549	2480.455	---	PASS
2DH5	Ant1	2402	1.1971	2401.403	2402.600	---	PASS
		2441	1.2059	2440.396	2441.602	---	PASS
		2480	1.1979	2479.401	2480.599	---	PASS
3DH5	Ant1	2402	1.2043	2401.391	2402.596	---	PASS
		2441	1.2104	2440.388	2441.598	---	PASS
		2480	1.2081	2479.389	2480.597	---	PASS

Test Graphs



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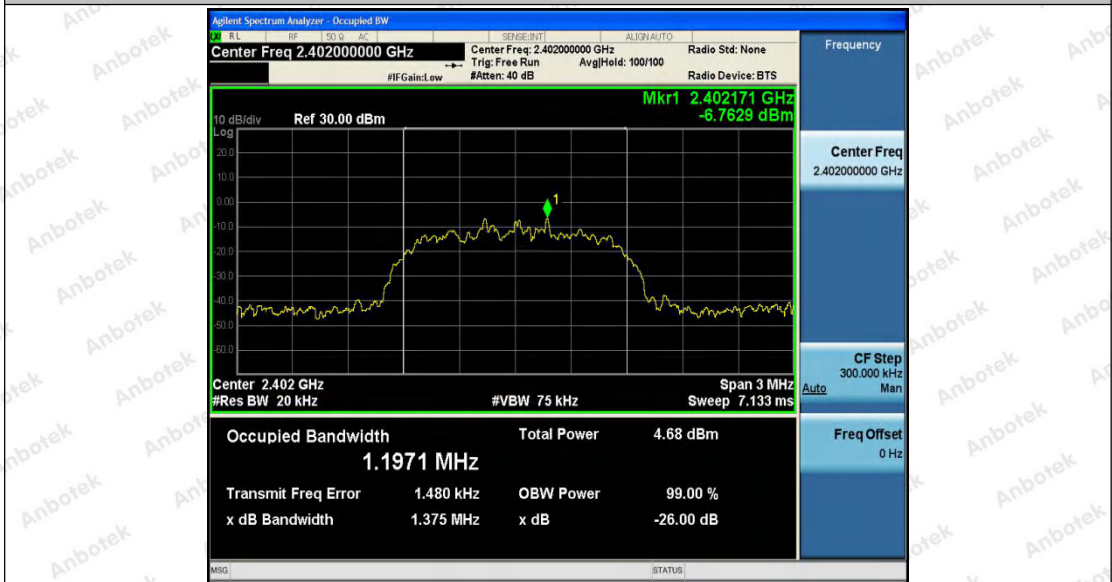
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

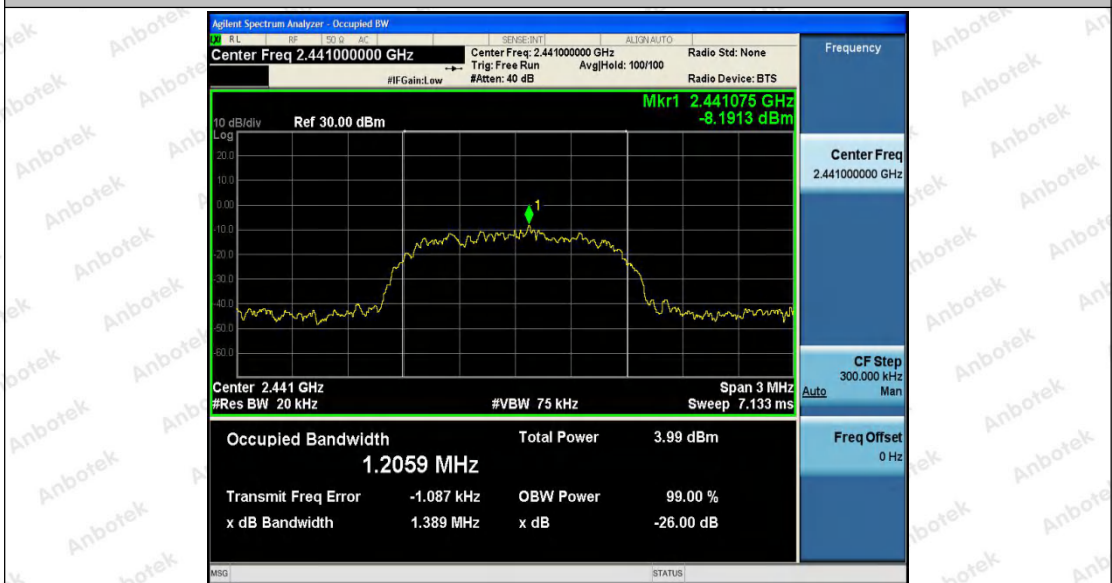
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2DH5_Ant1_2402



2DH5_Ant1_2441

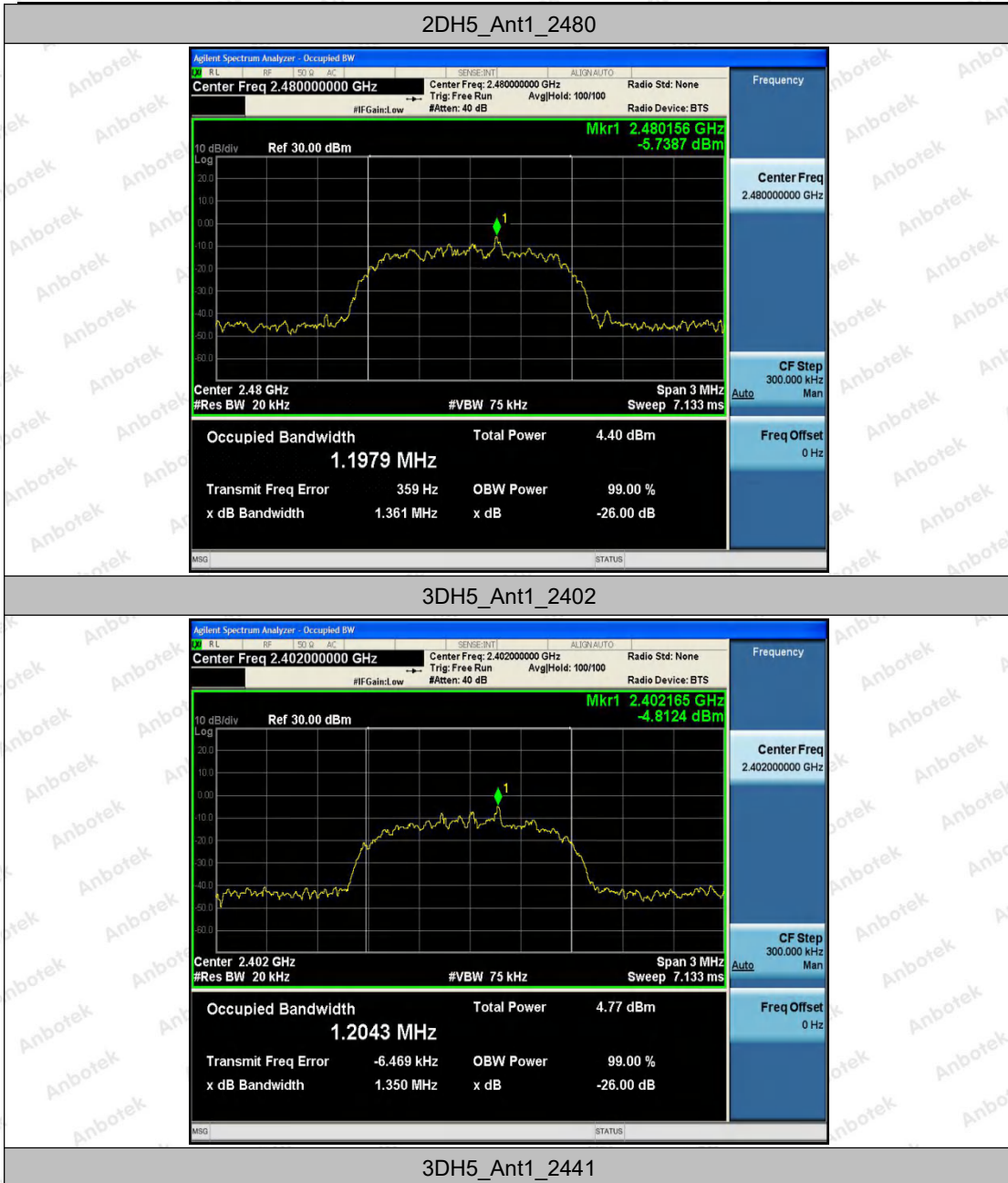


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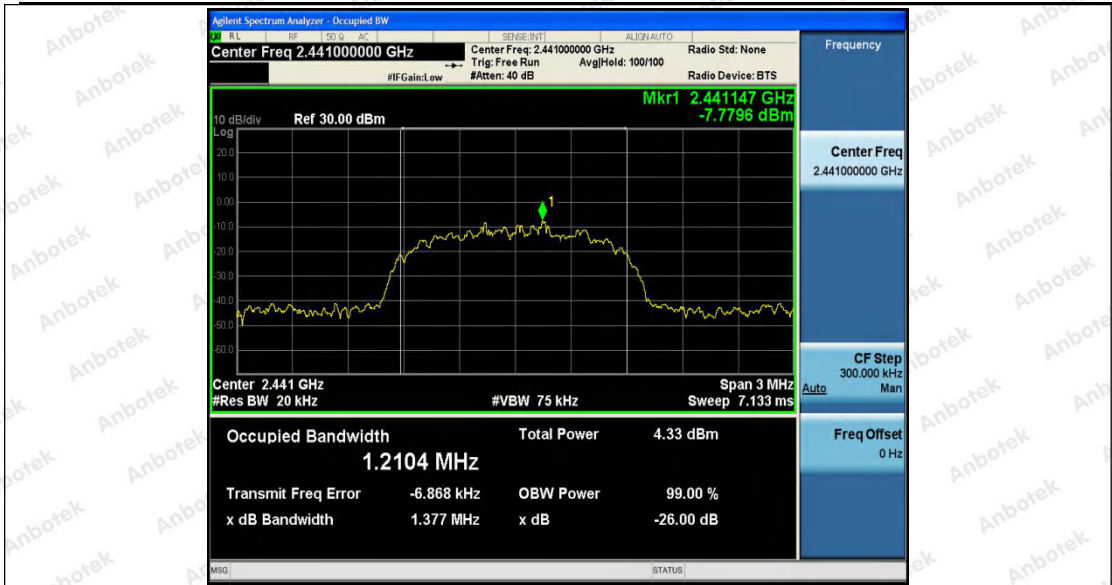


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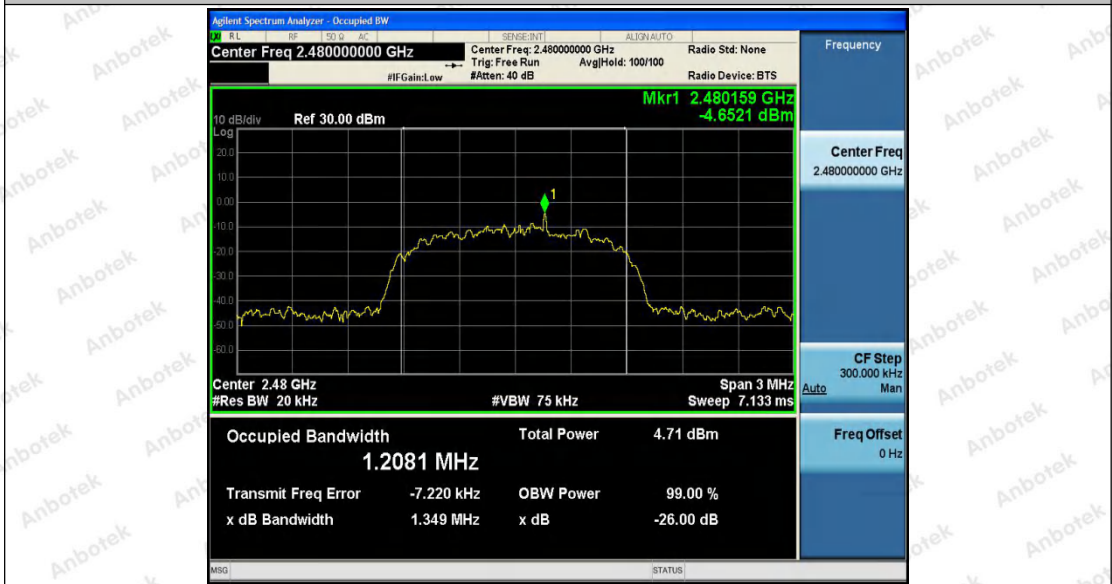
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3DH5_Ant1_2480

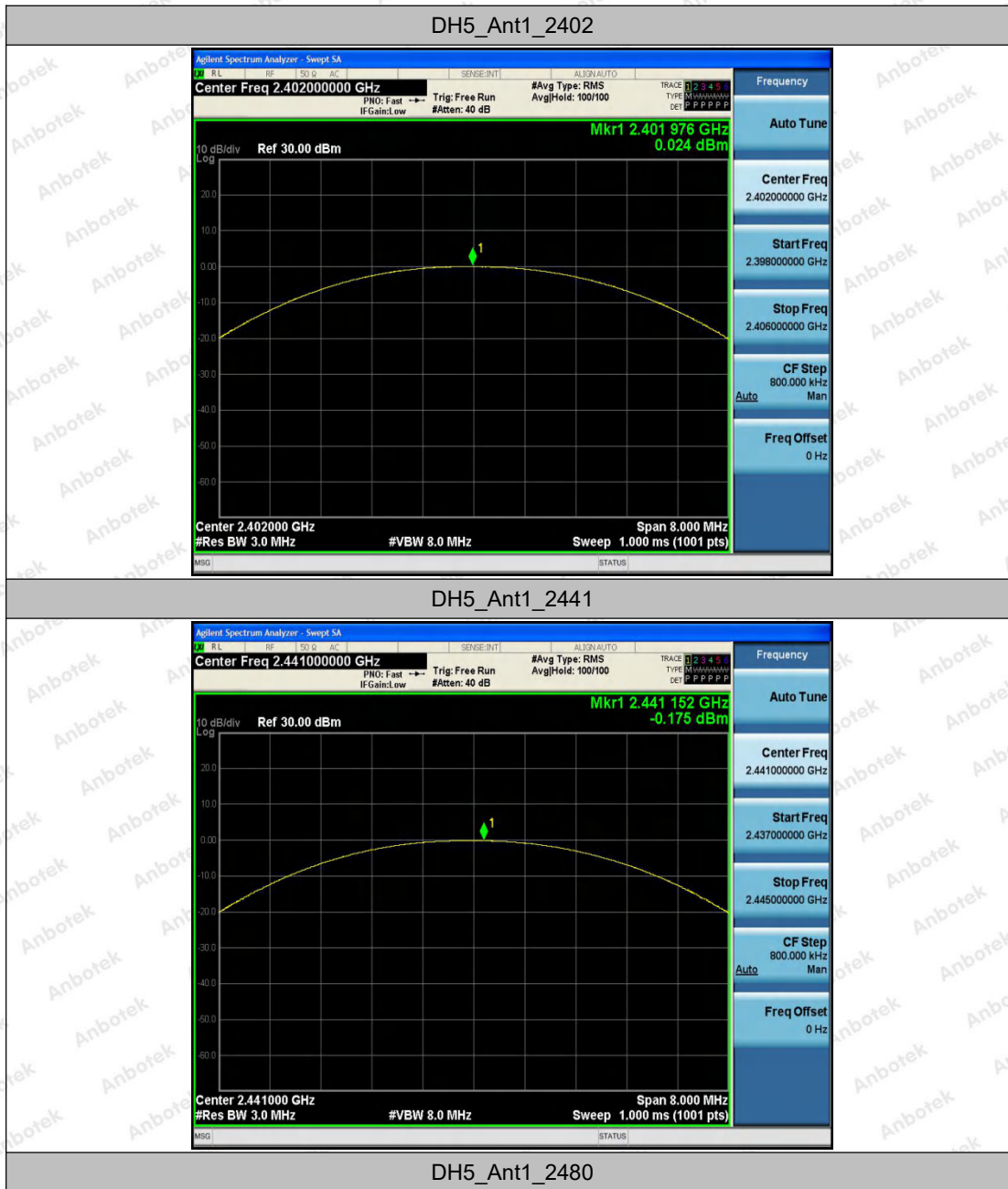


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.02	≤20.97	PASS
		2441	-0.18	≤20.97	PASS
		2480	0.41	≤20.97	PASS
2DH5	Ant1	2402	-0.57	≤20.97	PASS
		2441	-0.8	≤20.97	PASS
		2480	-0.48	≤20.97	PASS
3DH5	Ant1	2402	-0.48	≤20.97	PASS
		2441	-0.72	≤20.97	PASS
		2480	-0.25	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



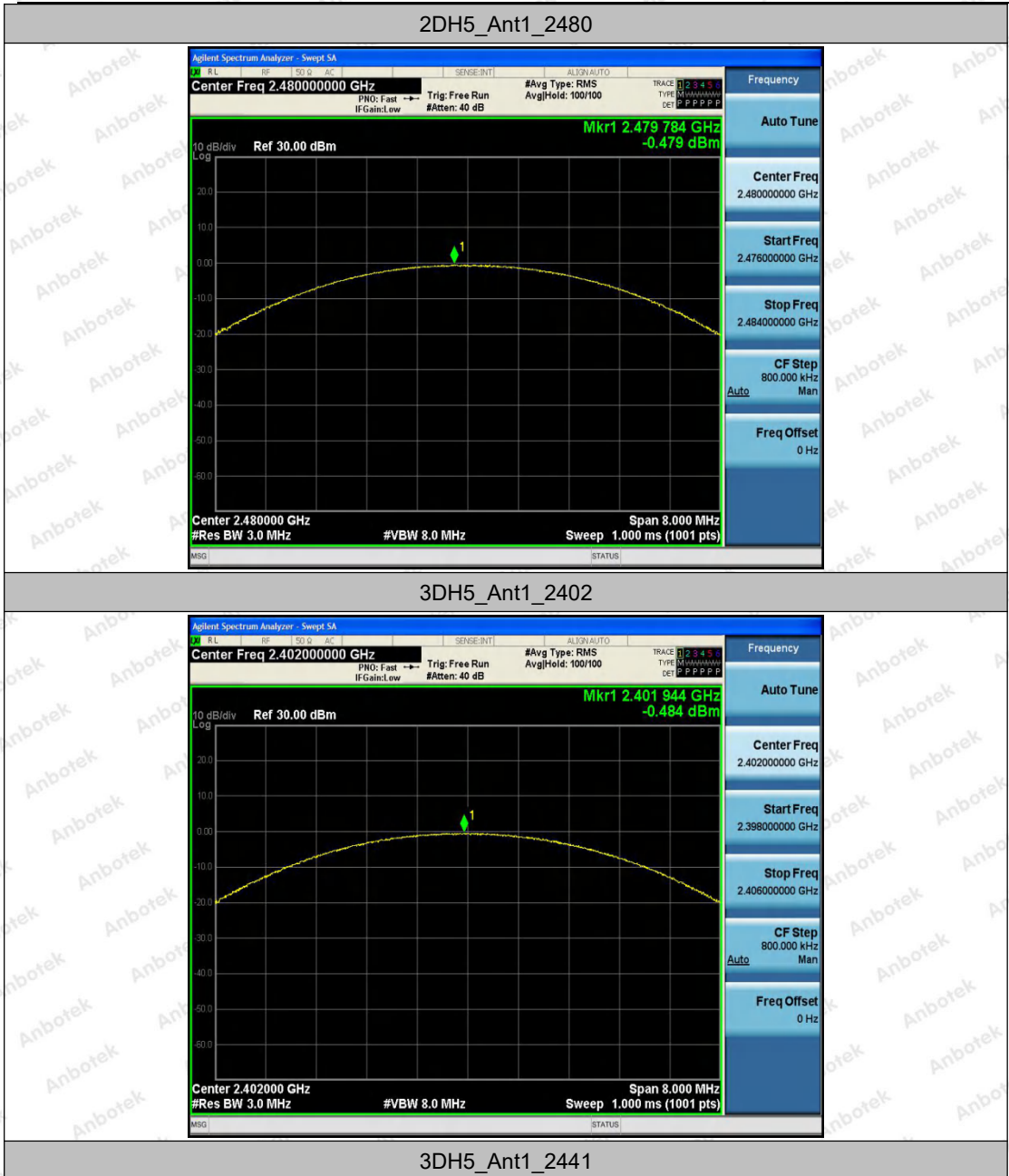
2DH5_Ant1_2441



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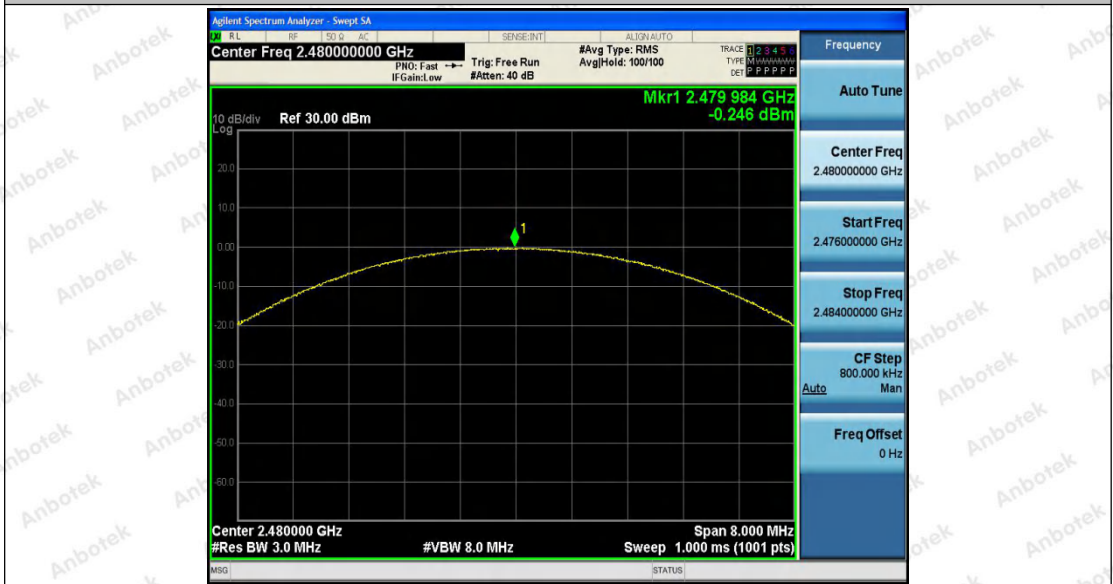
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.99	≥0.948	PASS
2DH5	Ant1	Hop	1.172	≥0.888	PASS
3DH5	Ant1	Hop	0.958	≥0.878	PASS

Test Graphs

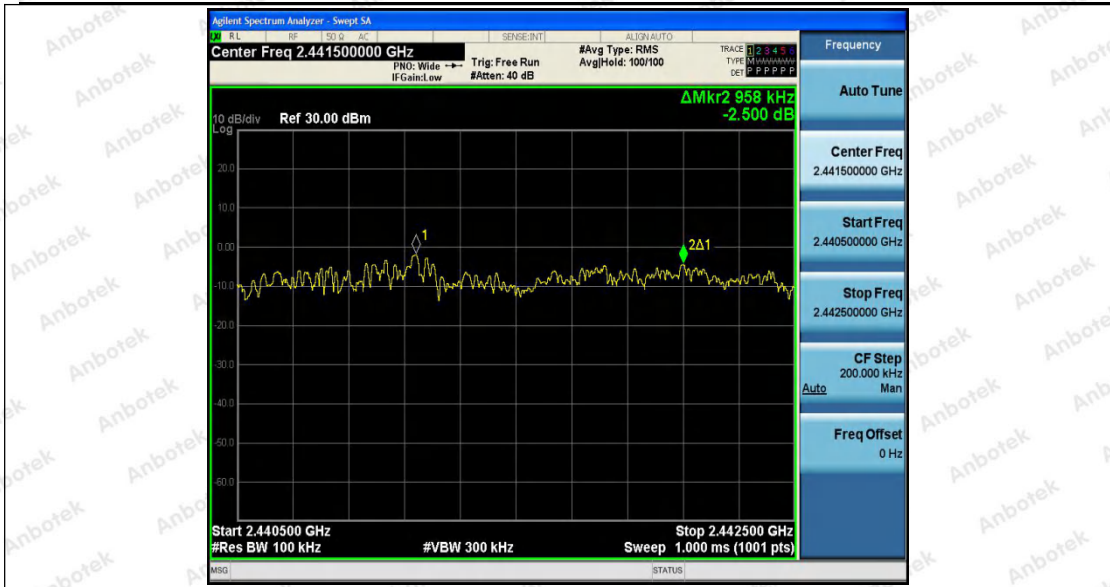


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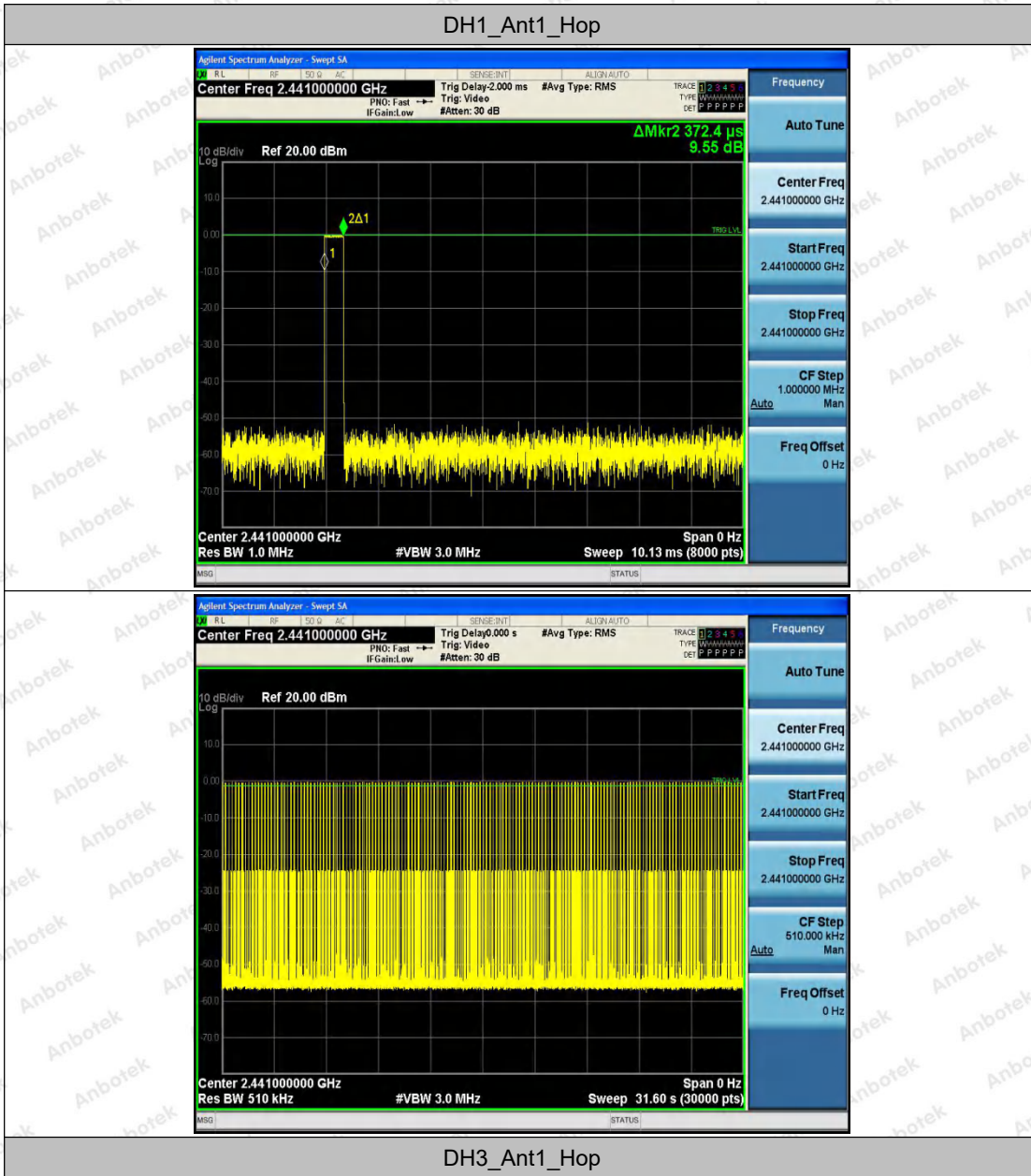
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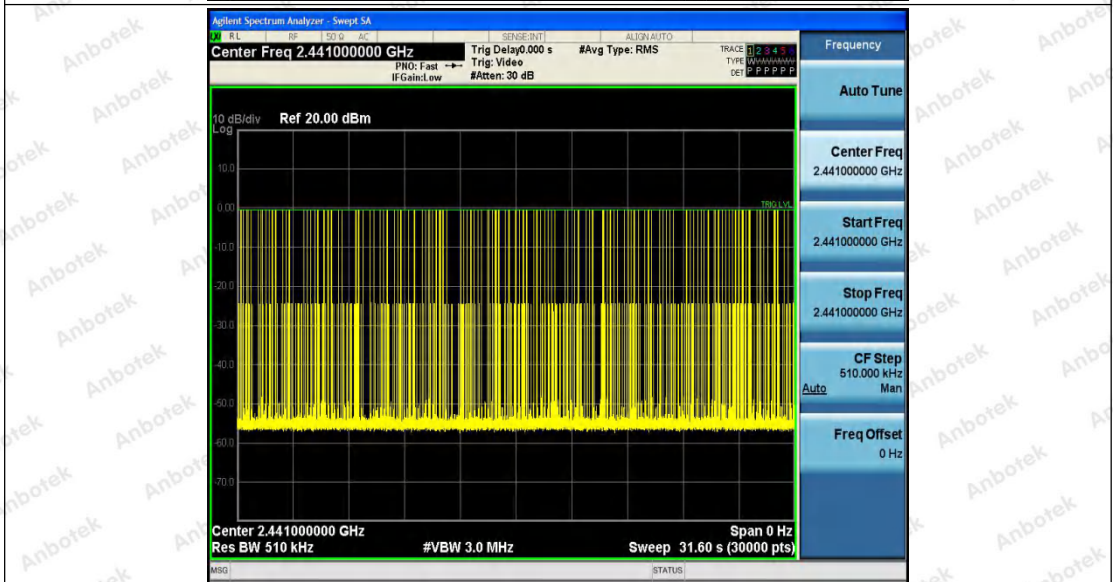
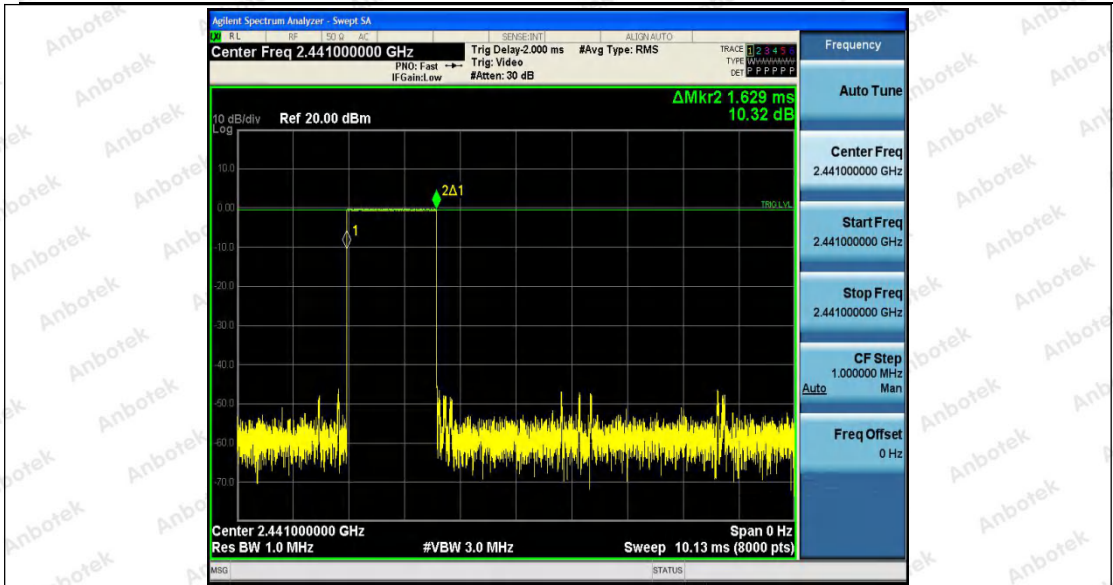
Appendix E: Time of occupancy

Test Result

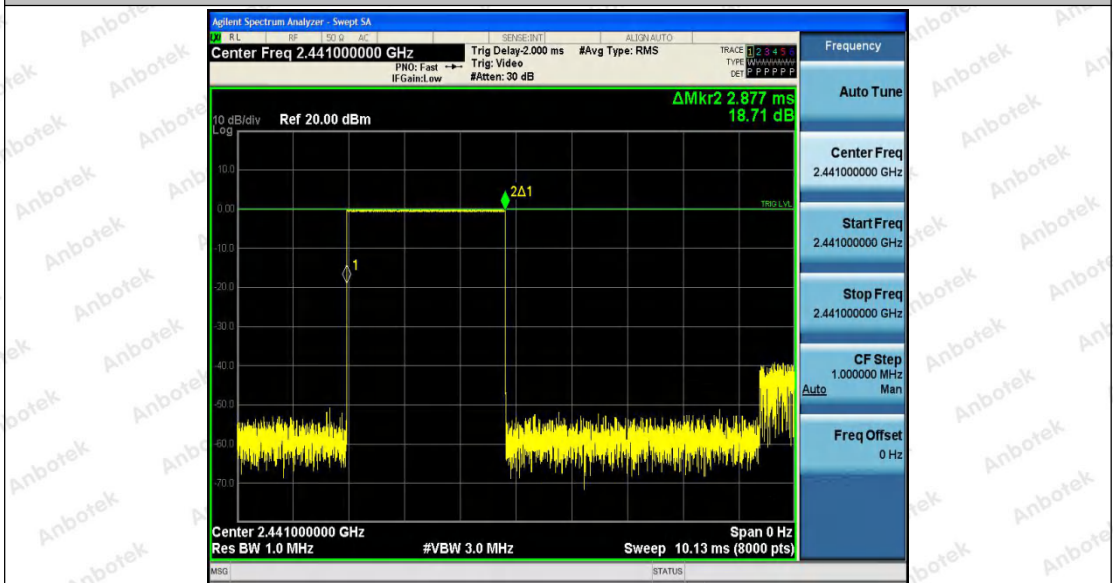
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	97	0.279	≤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	103	0.297	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

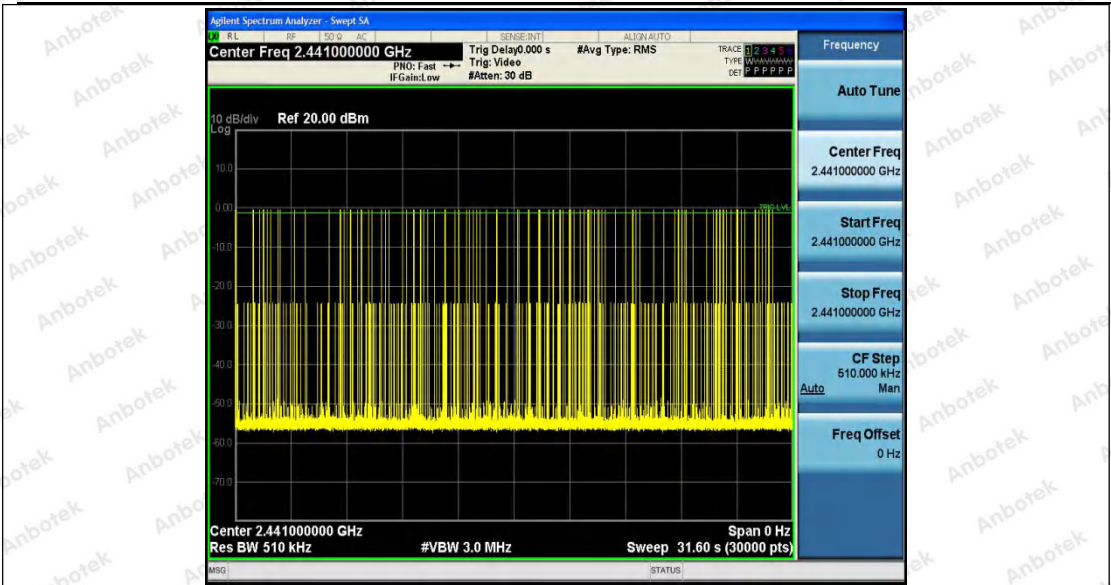


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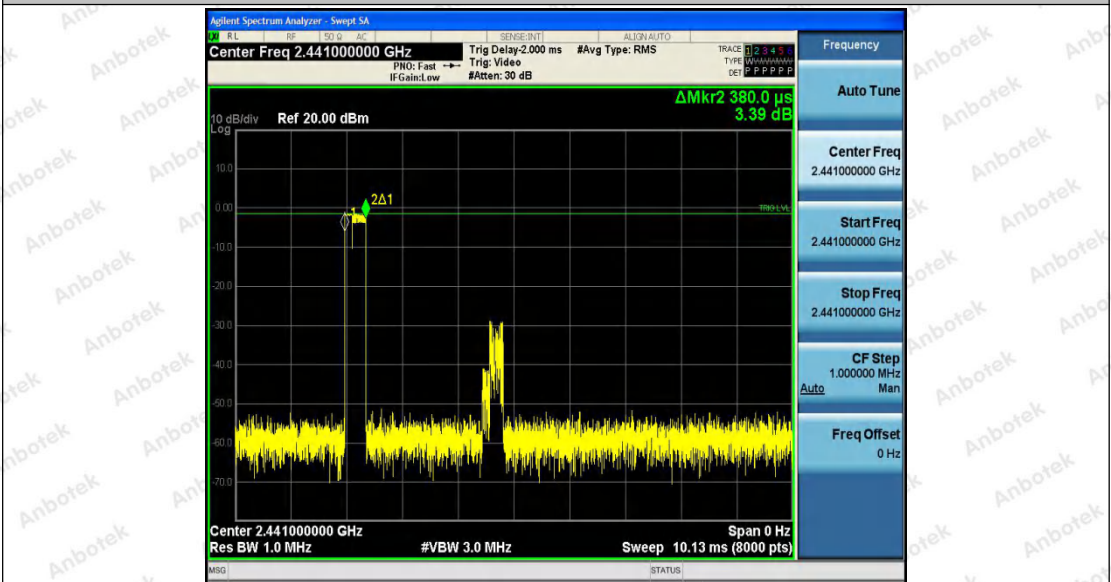
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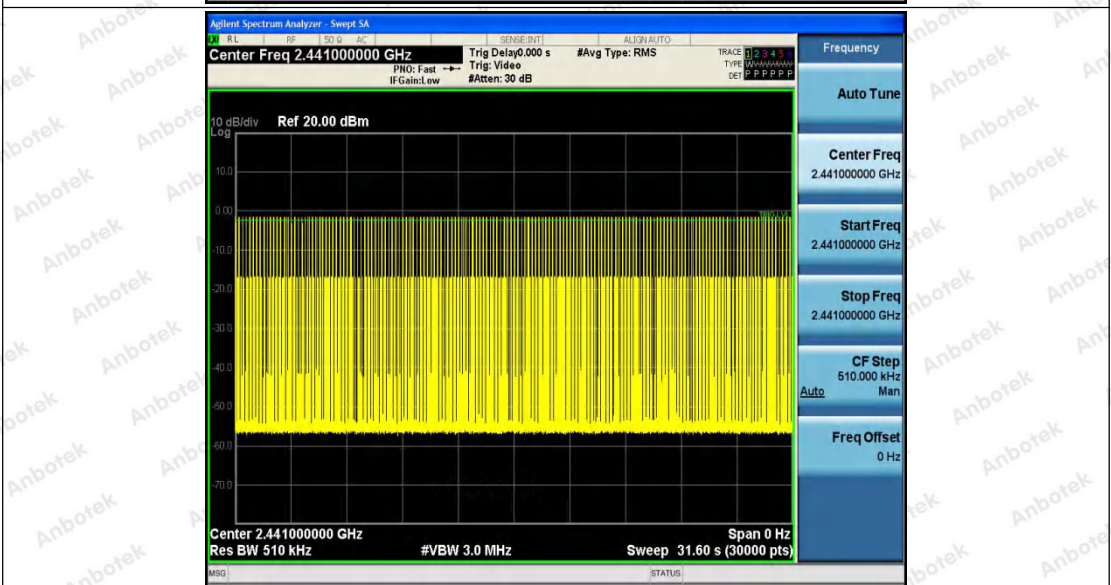
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2DH1_Ant1_Hop



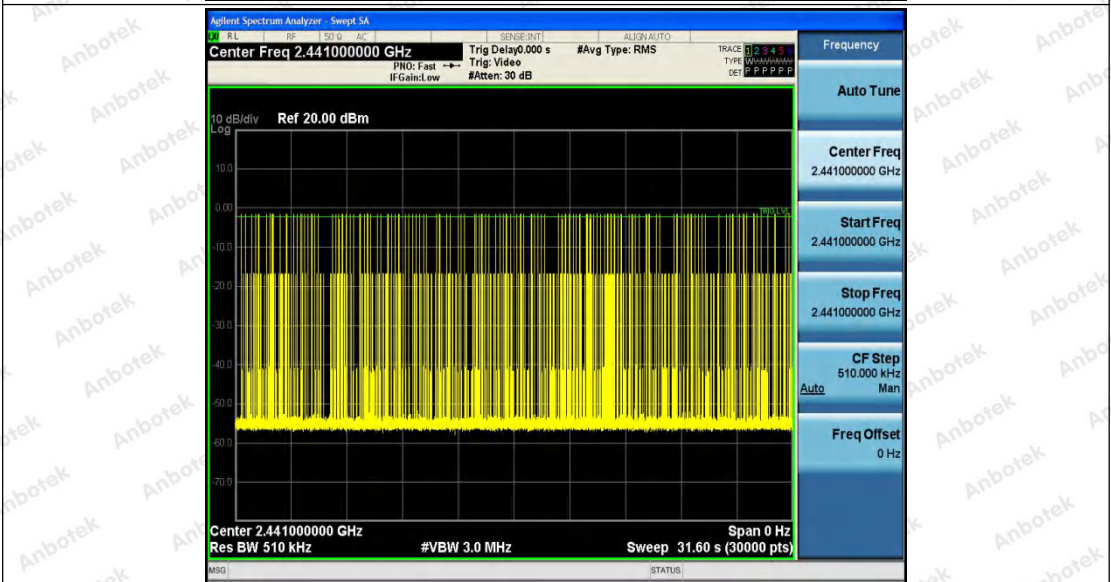
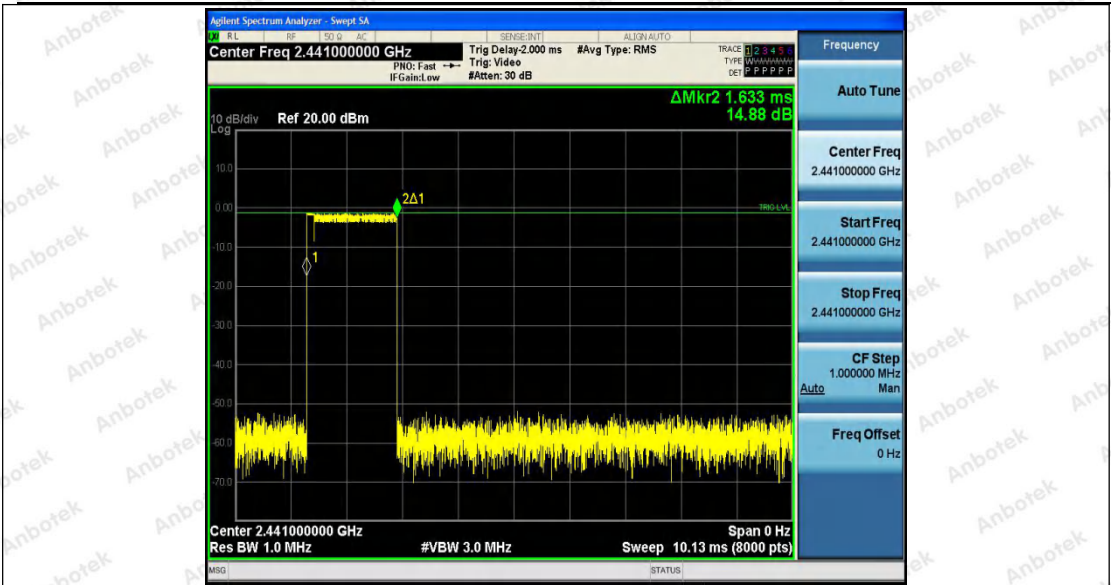
2DH3_Ant1_Hop



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2DH5_Ant1_Hop

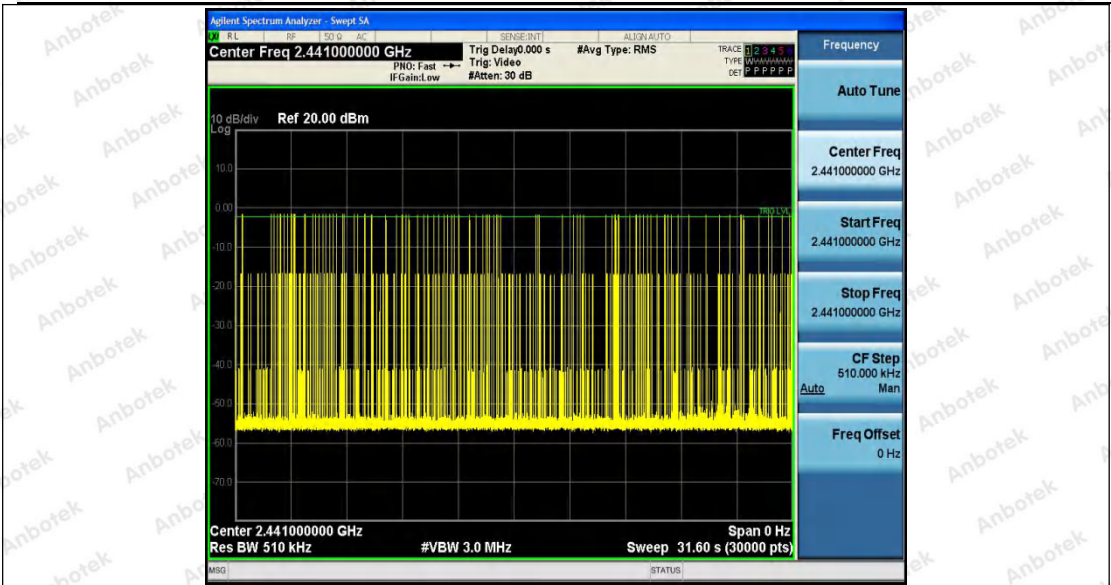


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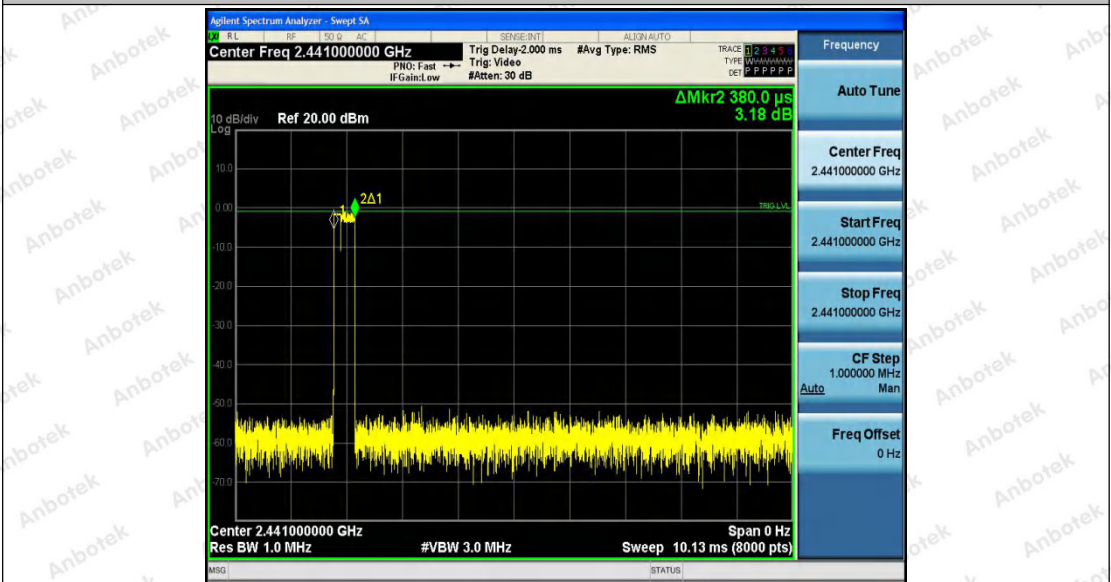
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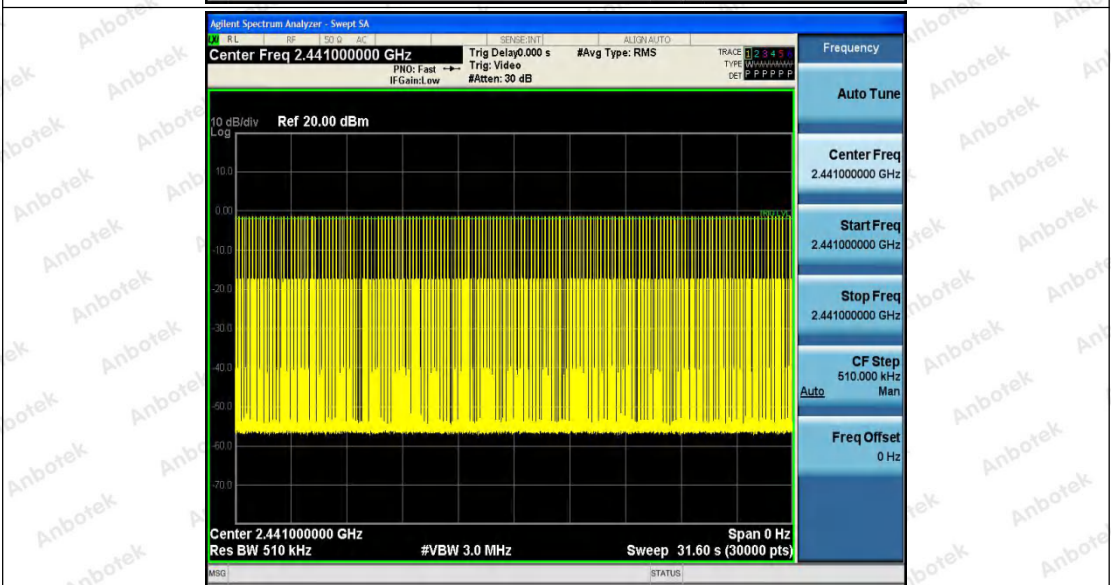
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



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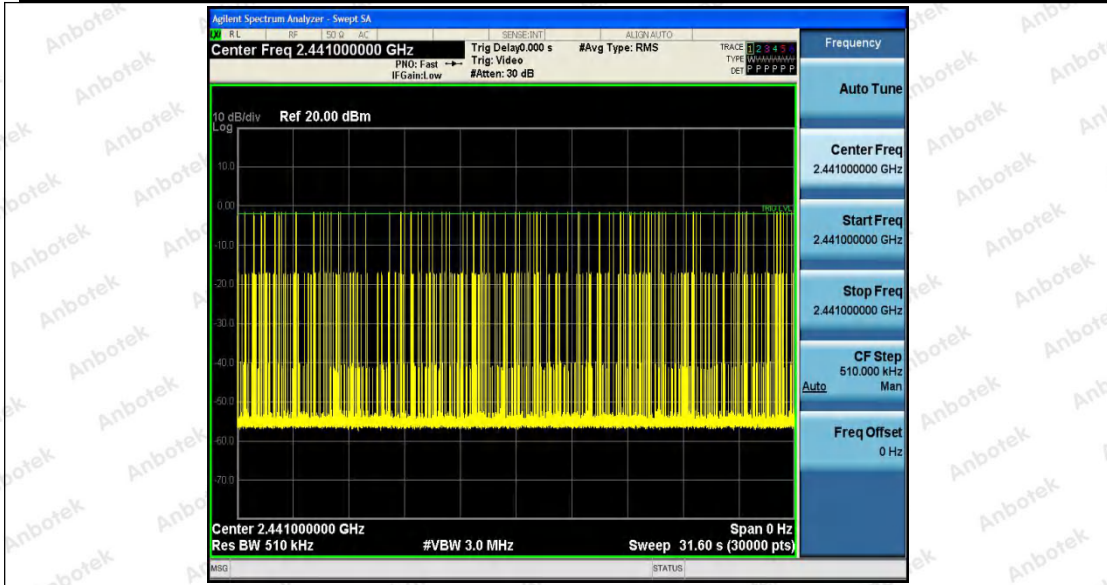


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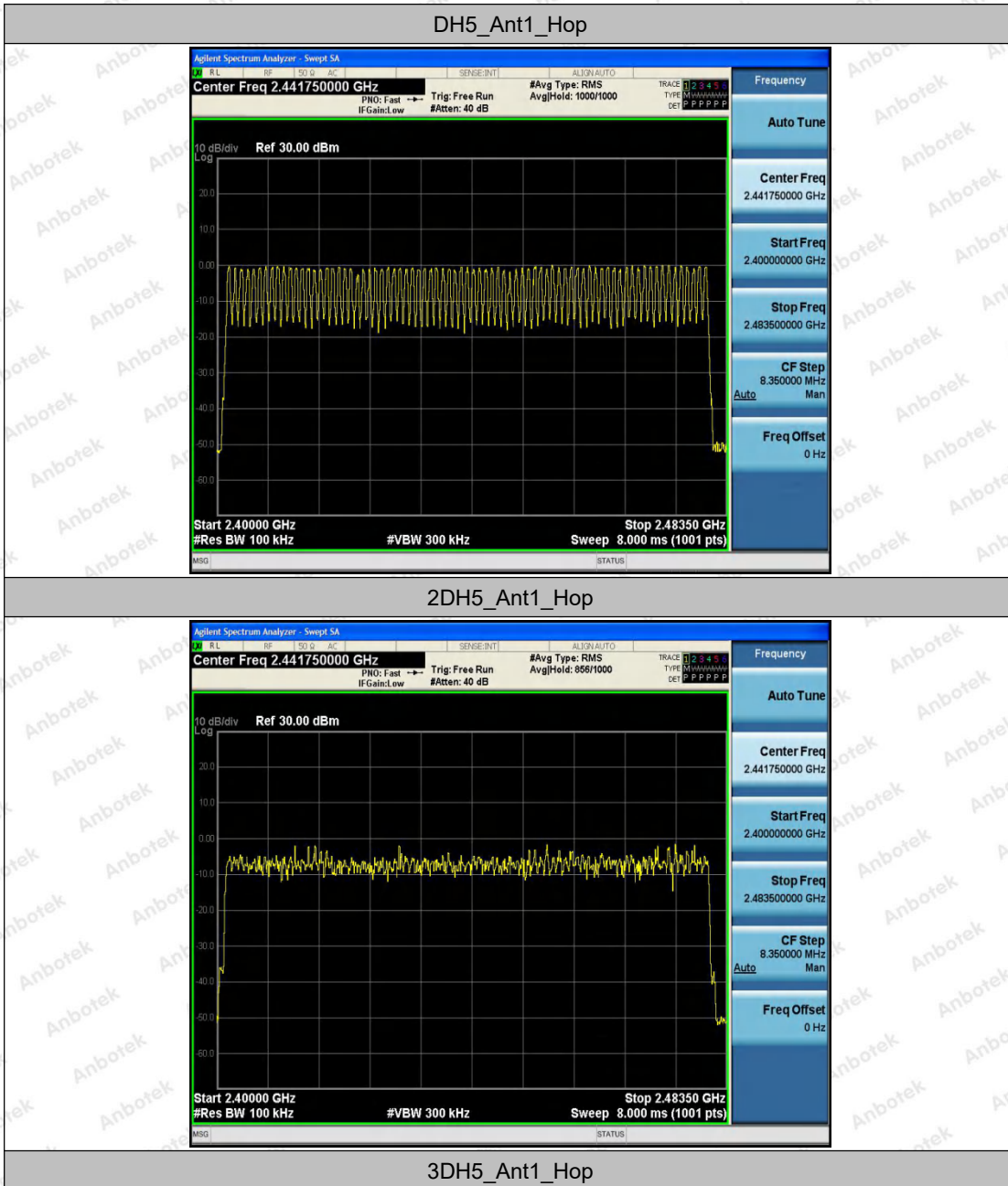
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Appendix F: Number of hopping channels

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

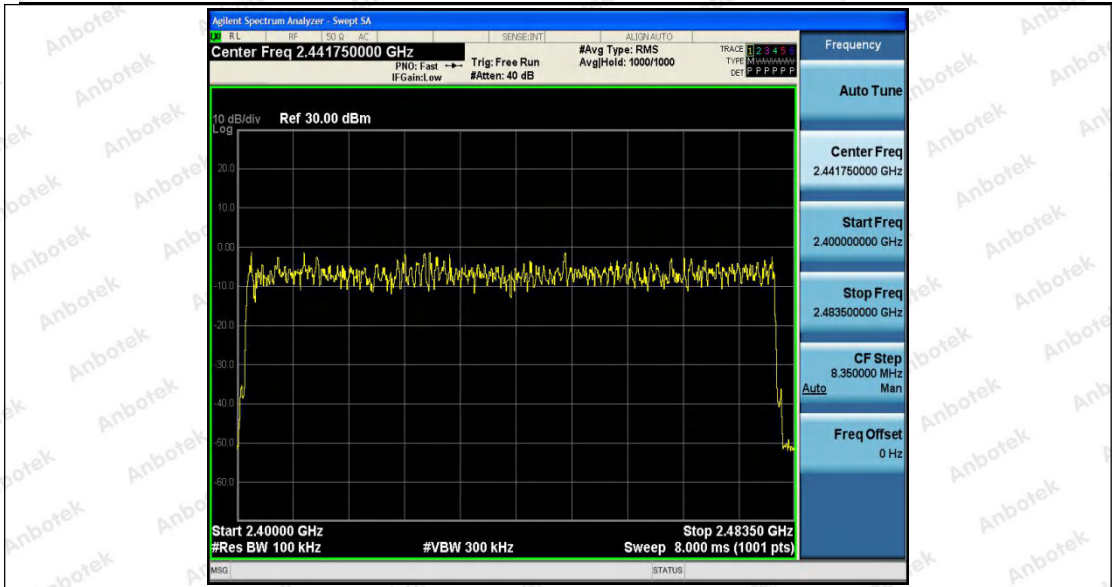
Test Graphs



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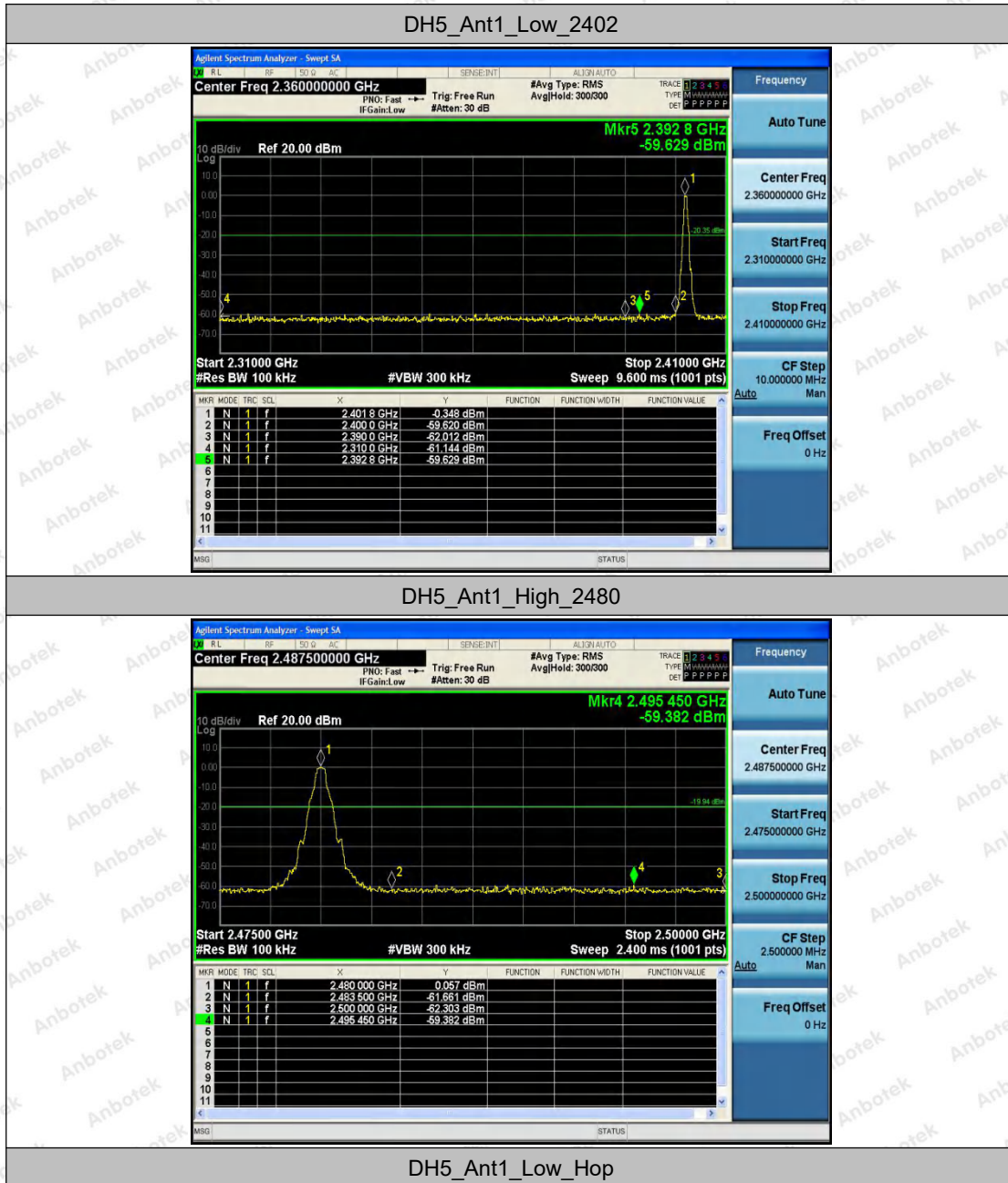
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Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.35	-59.63	≤-20.35	PASS
		High	2480	0.06	-59.38	≤-19.94	PASS
		Low	Hop	-0.37	-59.82	≤-20.37	PASS
		High	Hop	-0.29	-63.8	≤-20.29	PASS
2DH5	Ant1	Low	2402	-1.57	-56.06	≤-21.57	PASS
		High	2480	-1.73	-59.01	≤-21.73	PASS
		Low	Hop	-1.45	-59.42	≤-21.45	PASS
		High	Hop	-3.11	-62	≤-23.11	PASS
3DH5	Ant1	Low	2402	-1.46	-56.81	≤-21.46	PASS
		High	2480	-1.46	-58.8	≤-21.46	PASS
		Low	Hop	-1.92	-59.54	≤-21.92	PASS
		High	Hop	-4.80	-61.08	≤-24.8	PASS

Test Graphs


DH5_Ant1_High_2480

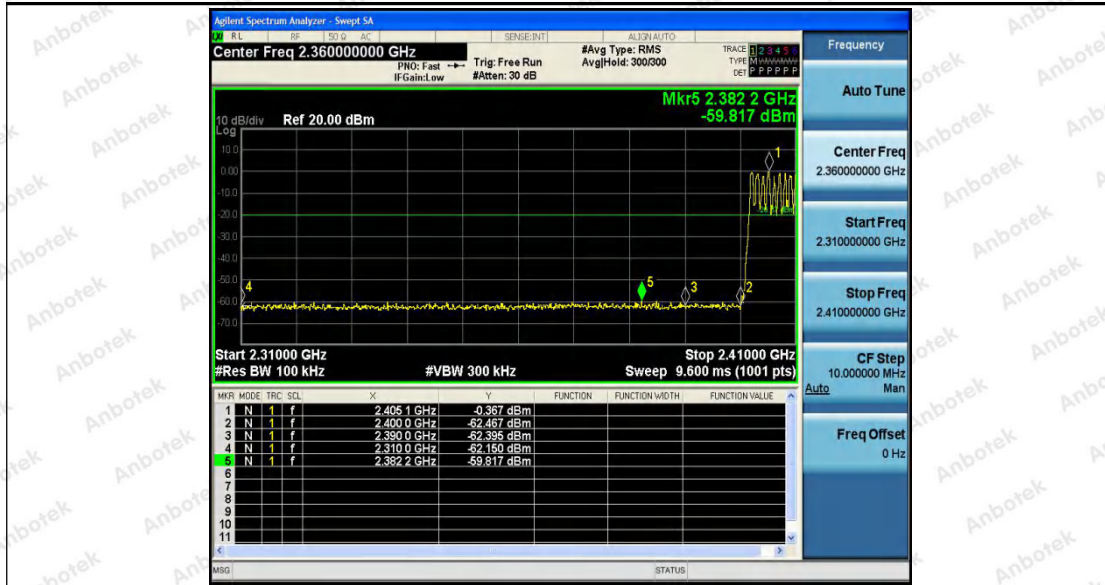
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 Stop Freq 2.50000000 GHz
 CF Step 2.500000 MHz
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DH5_Ant1_Low_Hop

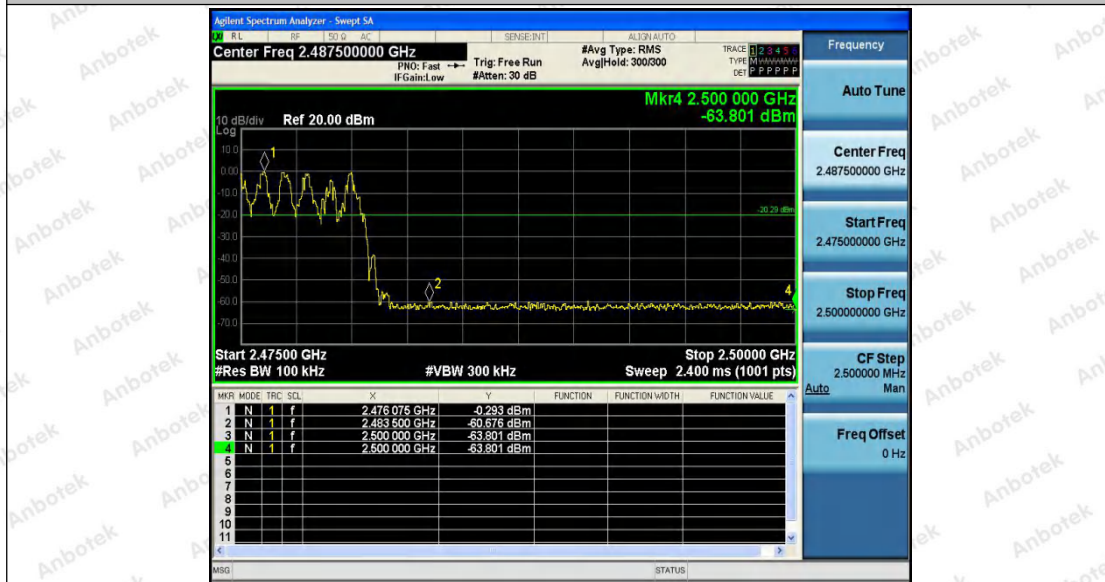
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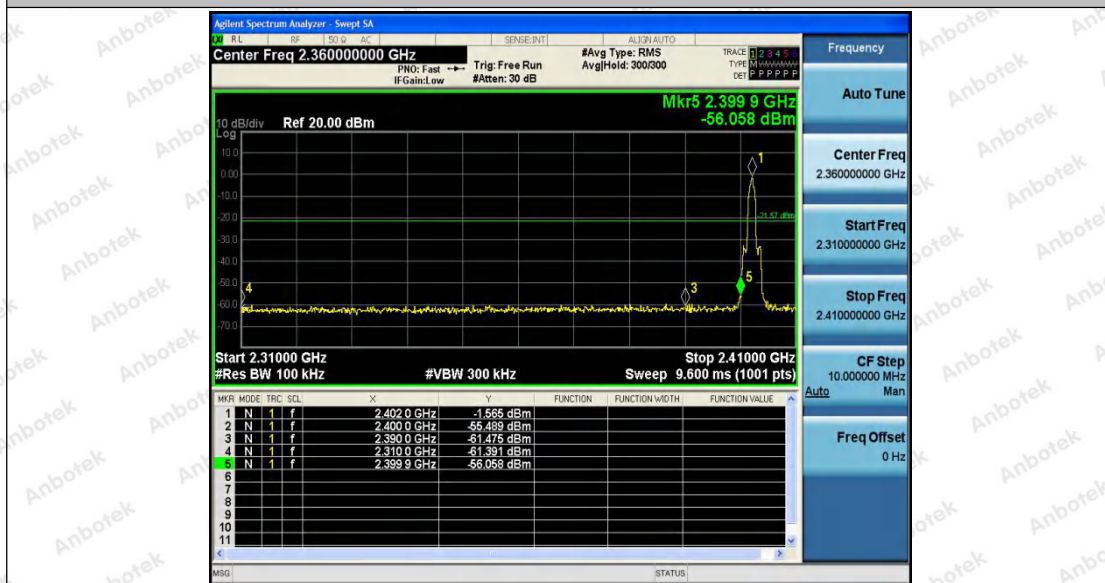
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

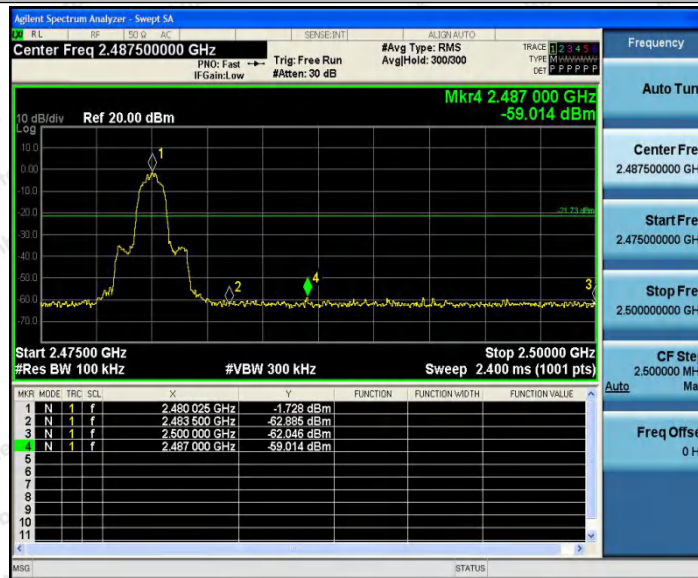


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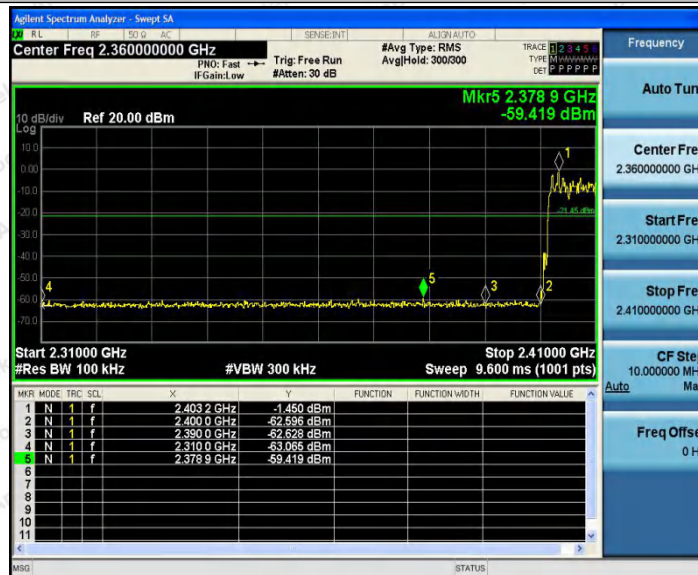
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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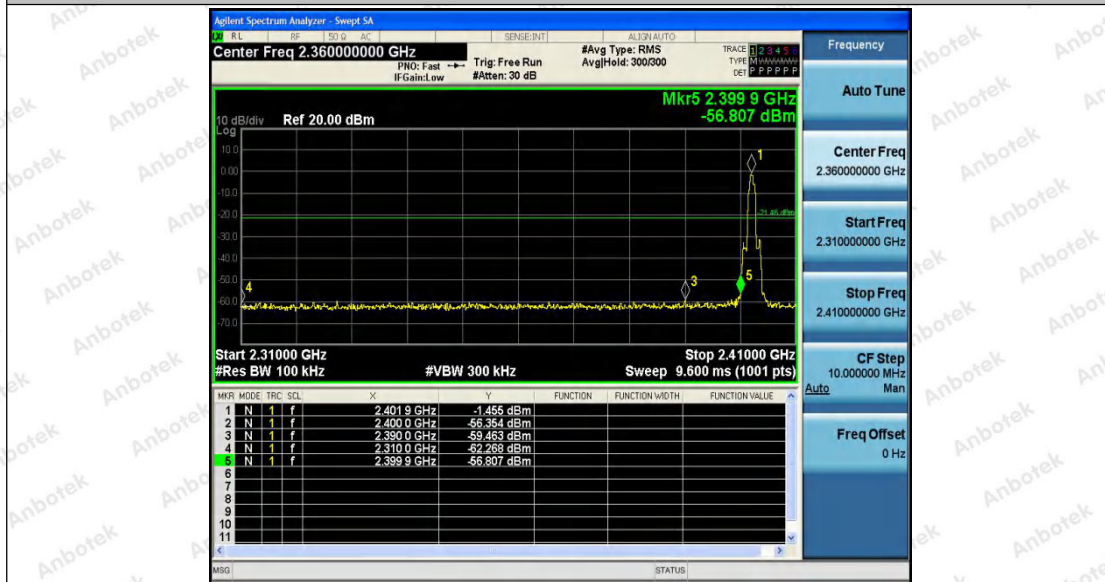
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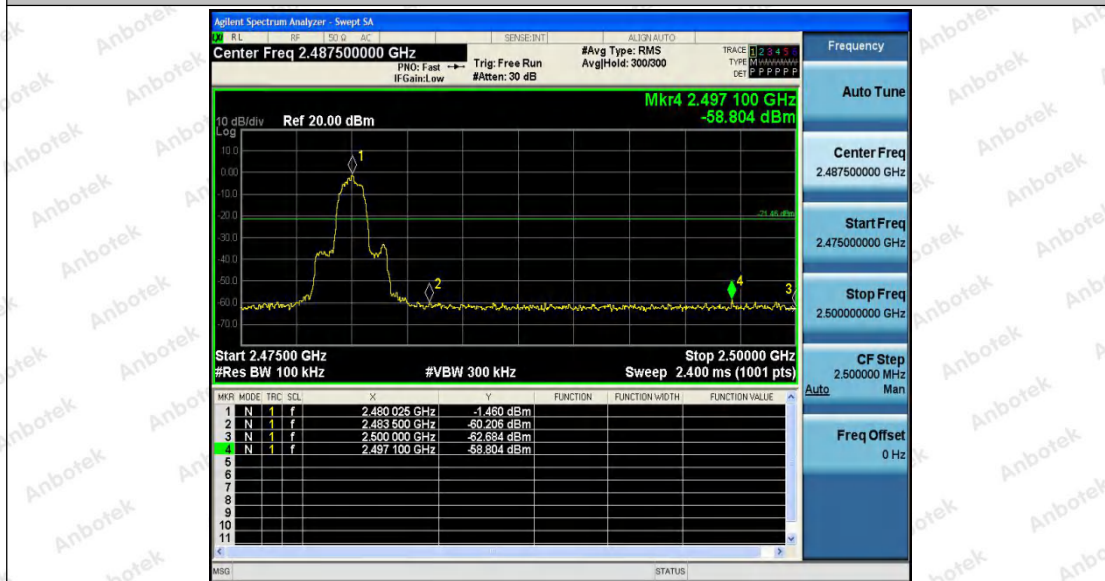
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3DH5_Ant1_Low_2402



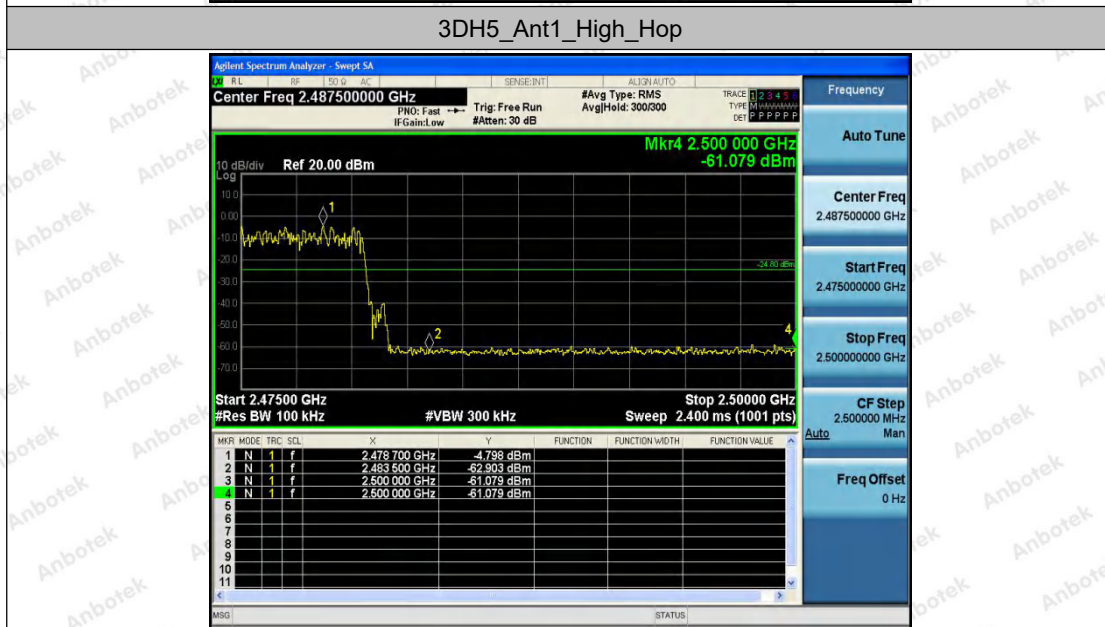
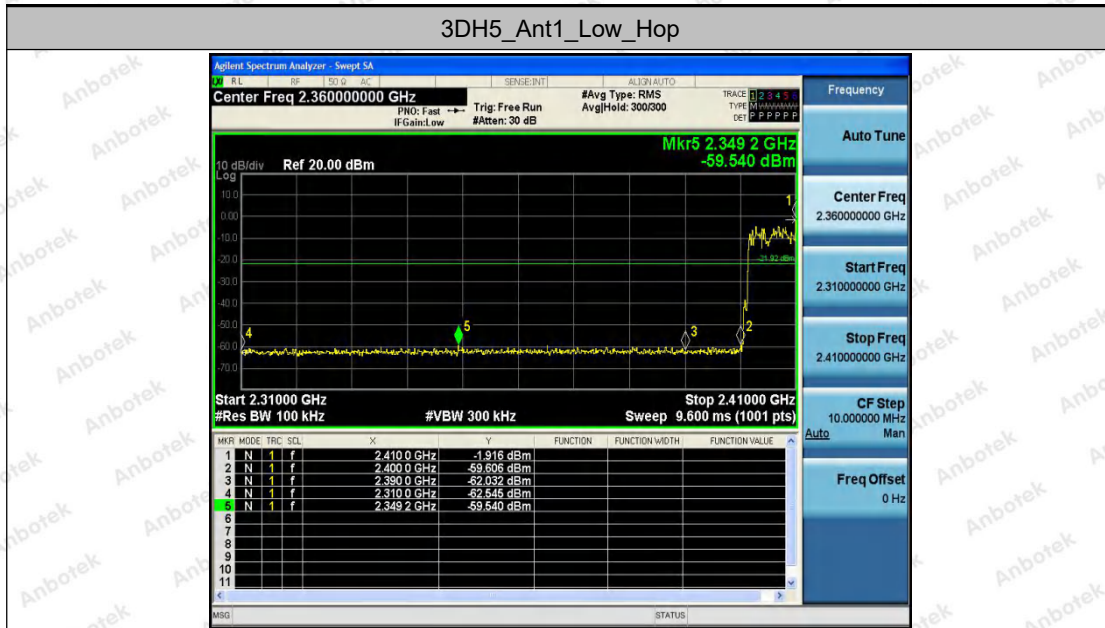
3DH5_Ant1_High_2480



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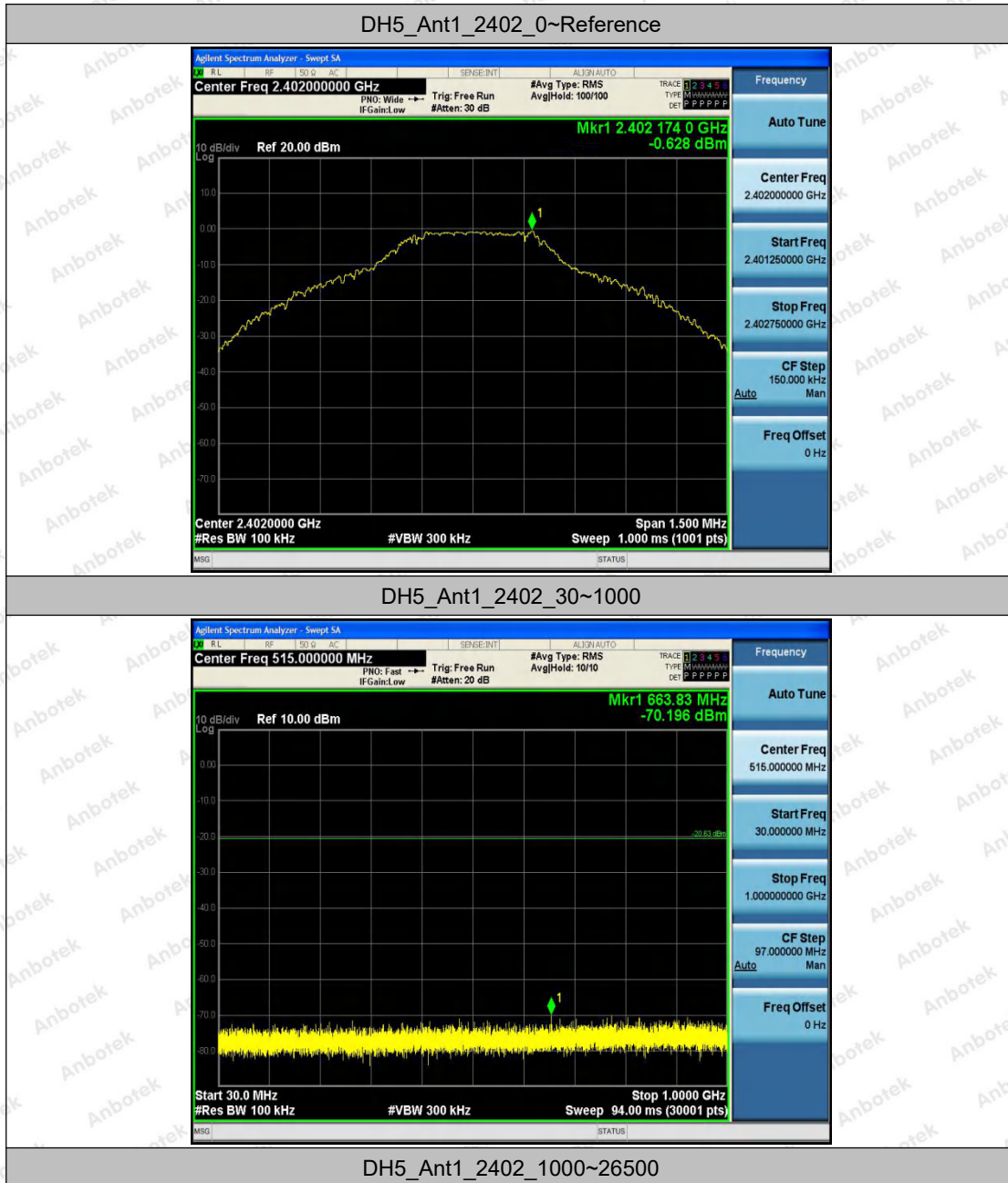
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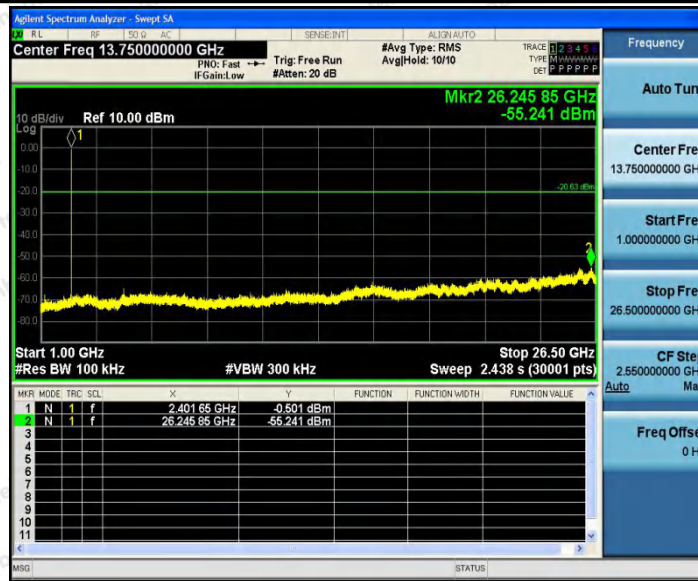
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-70.2	≤-20.63	PASS
			1000~26500	-0.63	-55.24	≤-20.63	PASS
		2441	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-70.69	≤-20.75	PASS
			1000~26500	-0.75	-56.02	≤-20.75	PASS
		2480	Reference	0.00	0.00	---	PASS
			30~1000	0.00	-69.46	≤-20	PASS
			1000~26500	0.00	-55.08	≤-20	PASS
2DH5	Ant1	2402	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-68.3	≤-21.46	PASS
			1000~26500	-1.46	-56.39	≤-21.46	PASS
		2441	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-70.08	≤-21.76	PASS
			1000~26500	-1.76	-55.13	≤-21.76	PASS
		2480	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-70.27	≤-21.59	PASS
			1000~26500	-1.59	-55.43	≤-21.59	PASS
3DH5	Ant1	2402	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-70.42	≤-21.87	PASS
			1000~26500	-1.87	-55.37	≤-21.87	PASS
		2441	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-66.91	≤-22.14	PASS
			1000~26500	-2.14	-55.1	≤-22.14	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-70.74	≤-21.22	PASS
			1000~26500	-1.22	-55.18	≤-21.22	PASS

Test Graphs

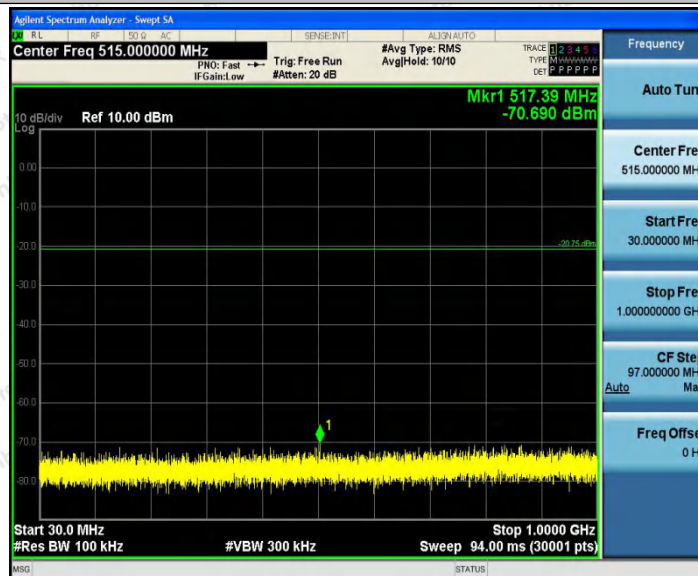




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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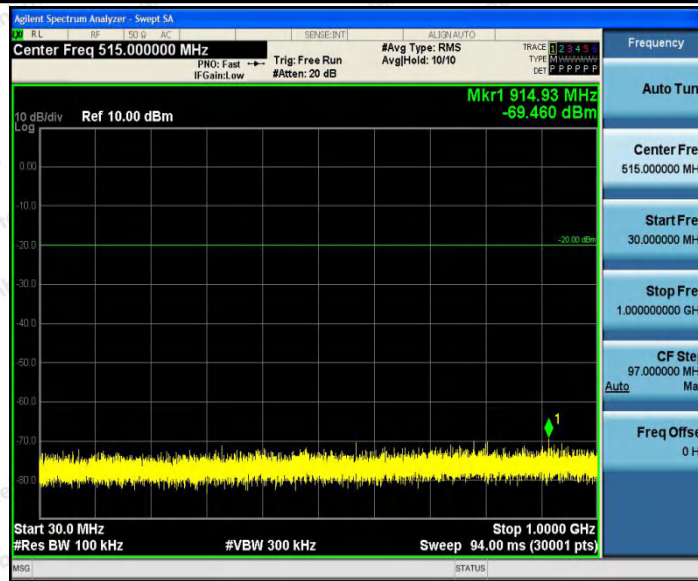
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

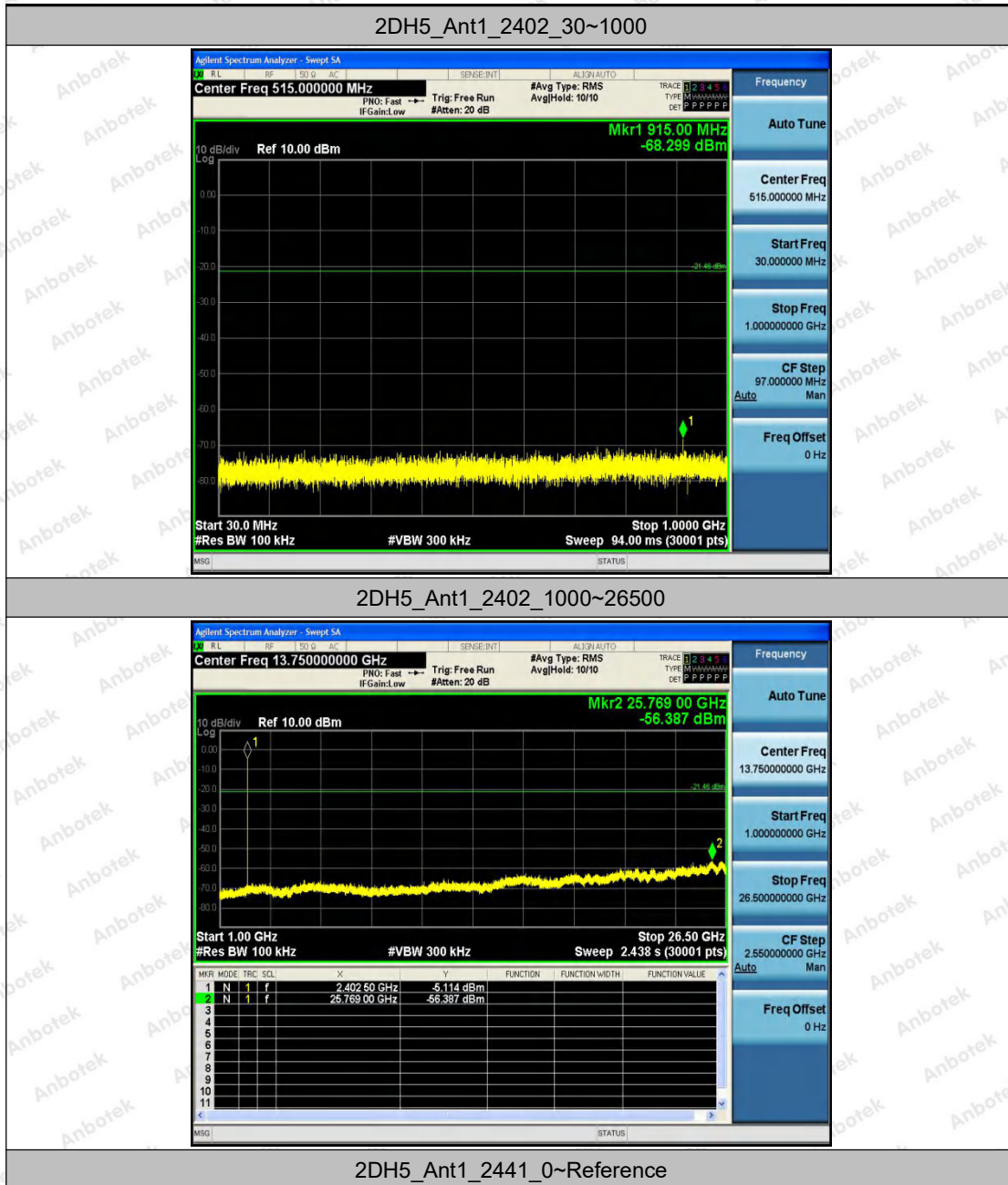


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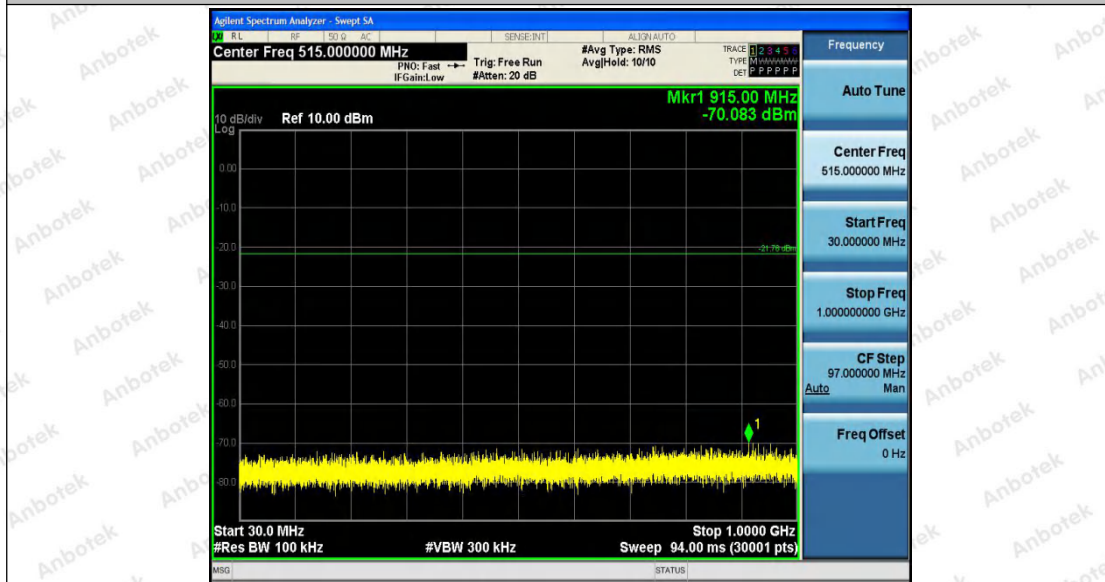
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

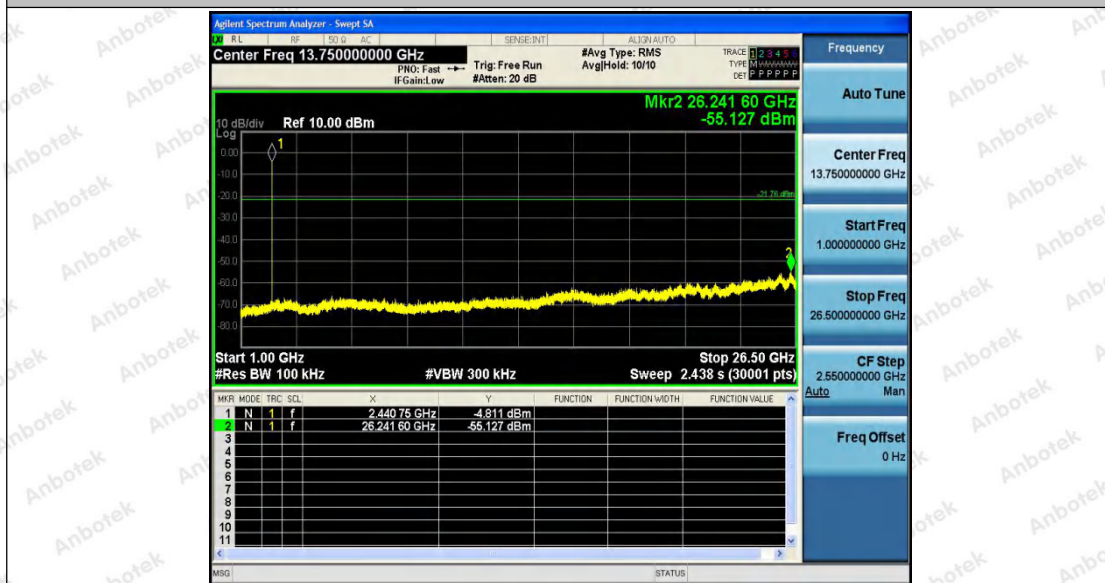
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

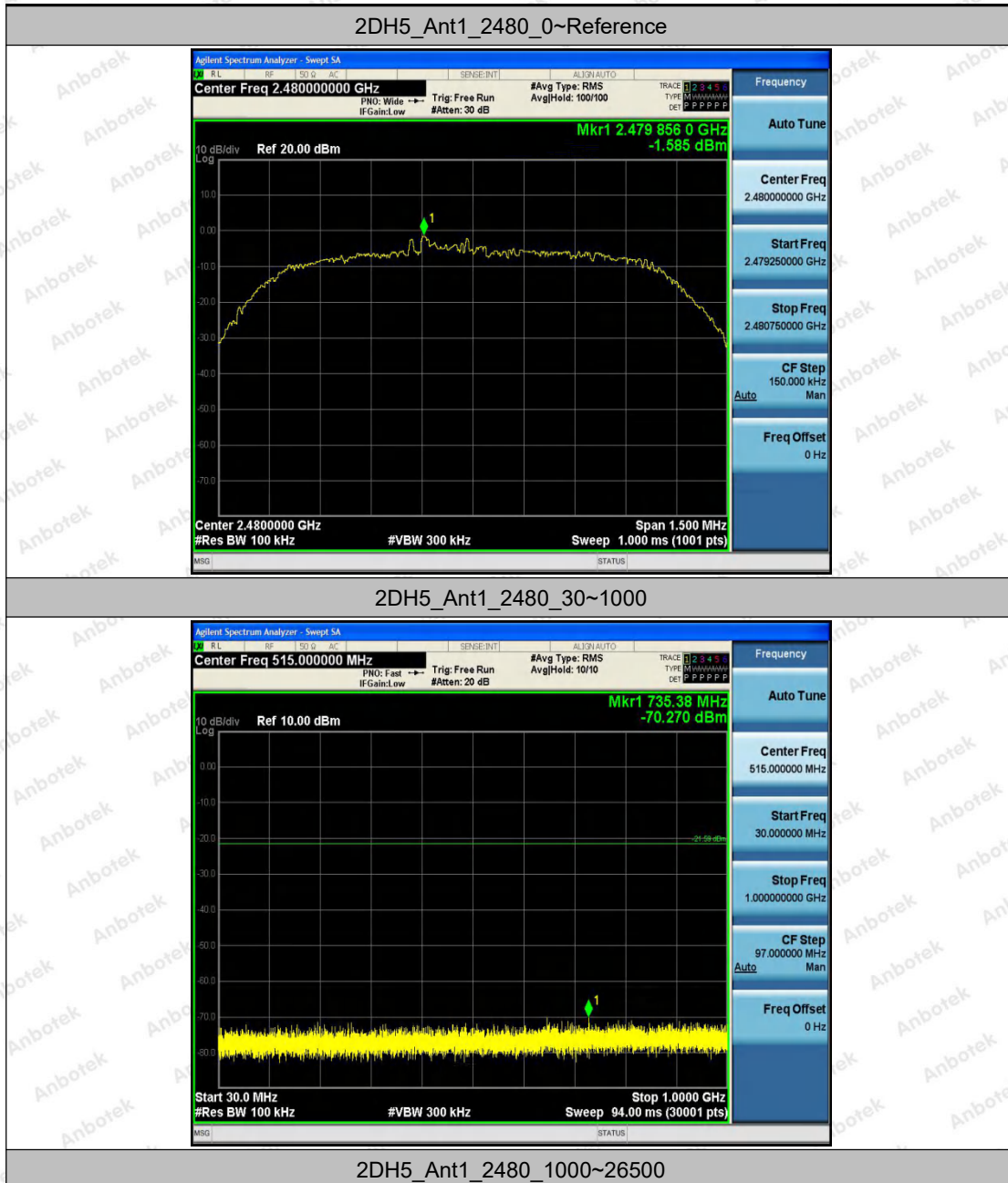


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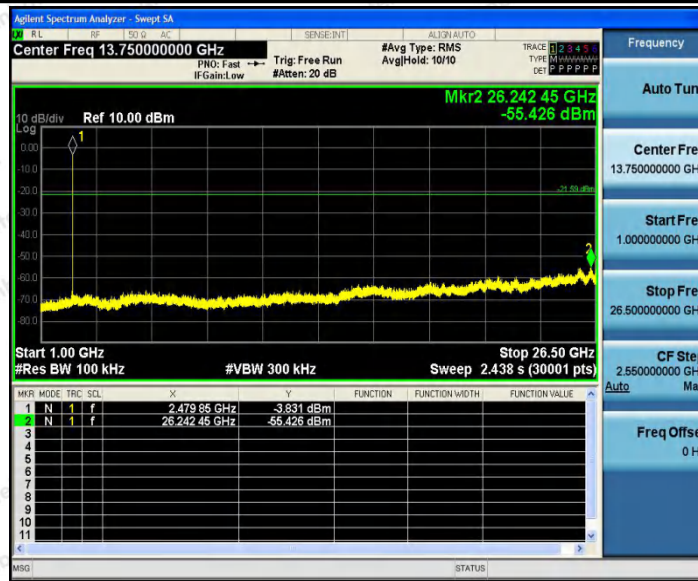
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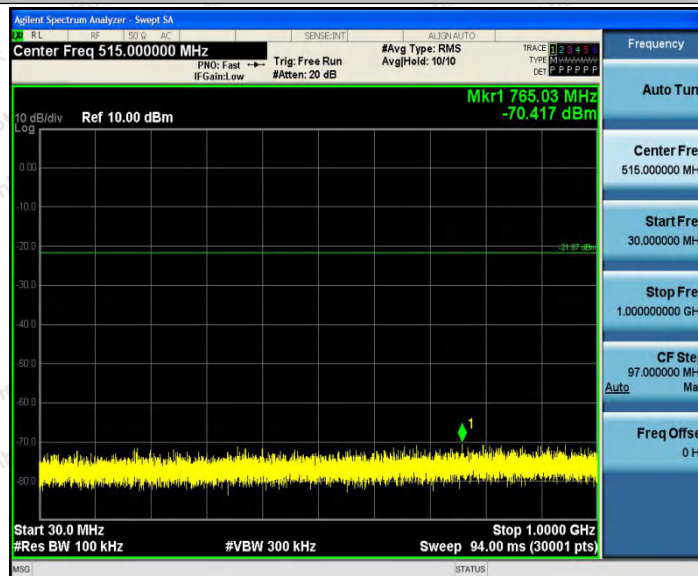
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3DH5_Ant1_2402_0~Reference



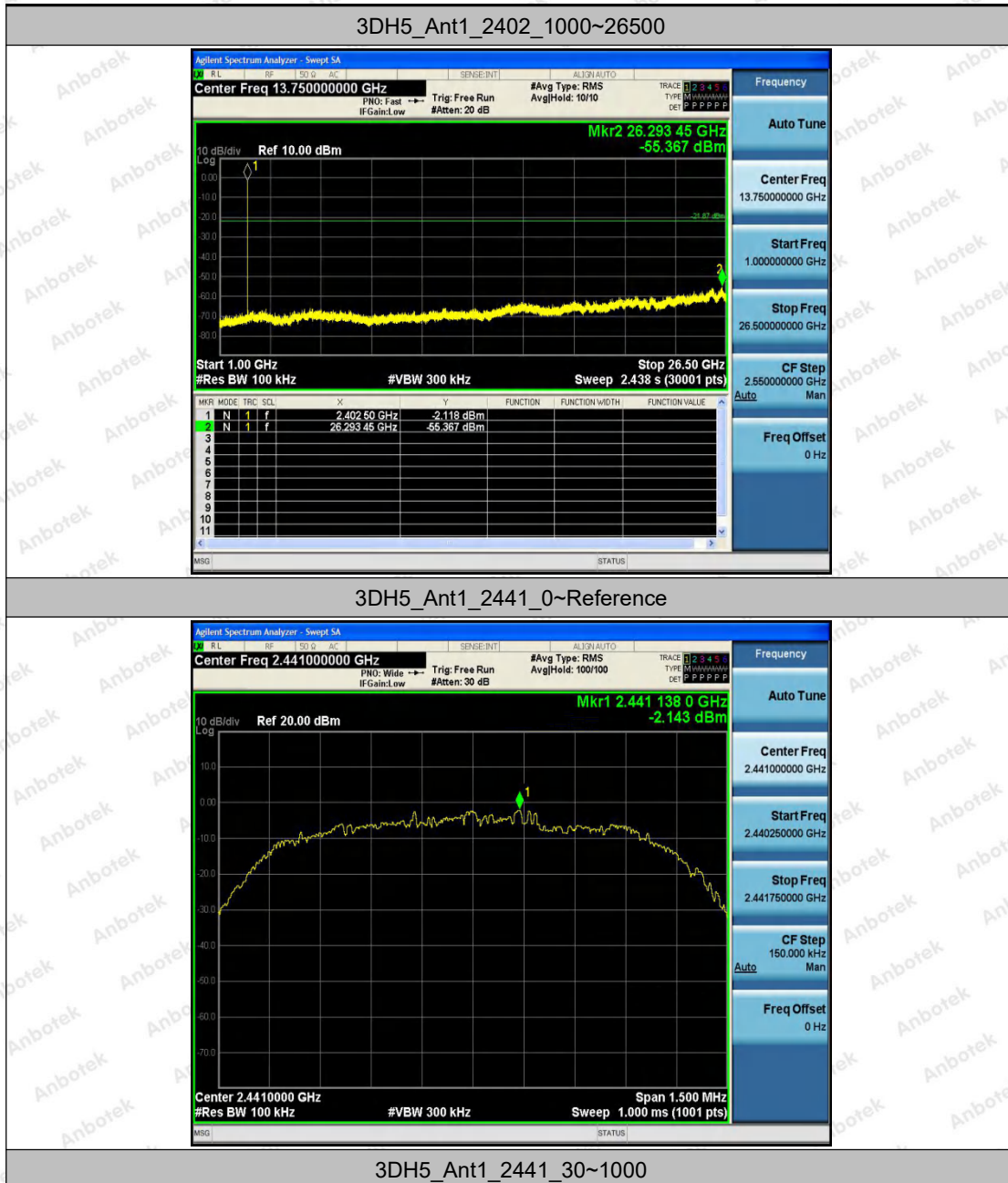
3DH5_Ant1_2402_30~1000



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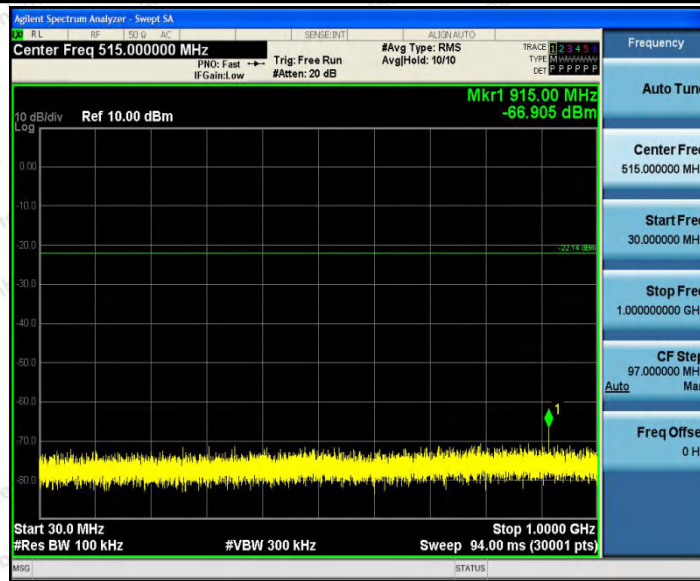
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

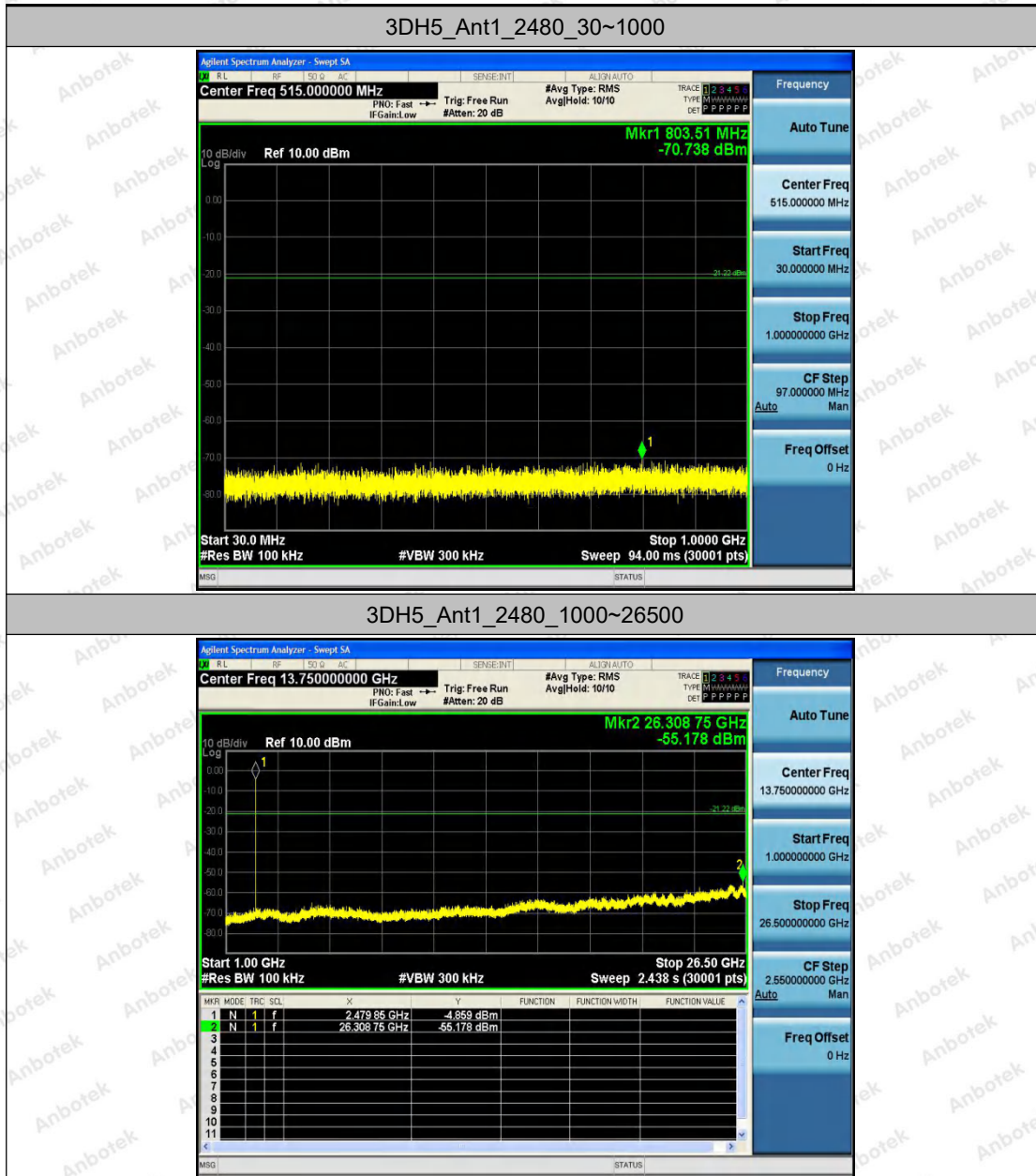


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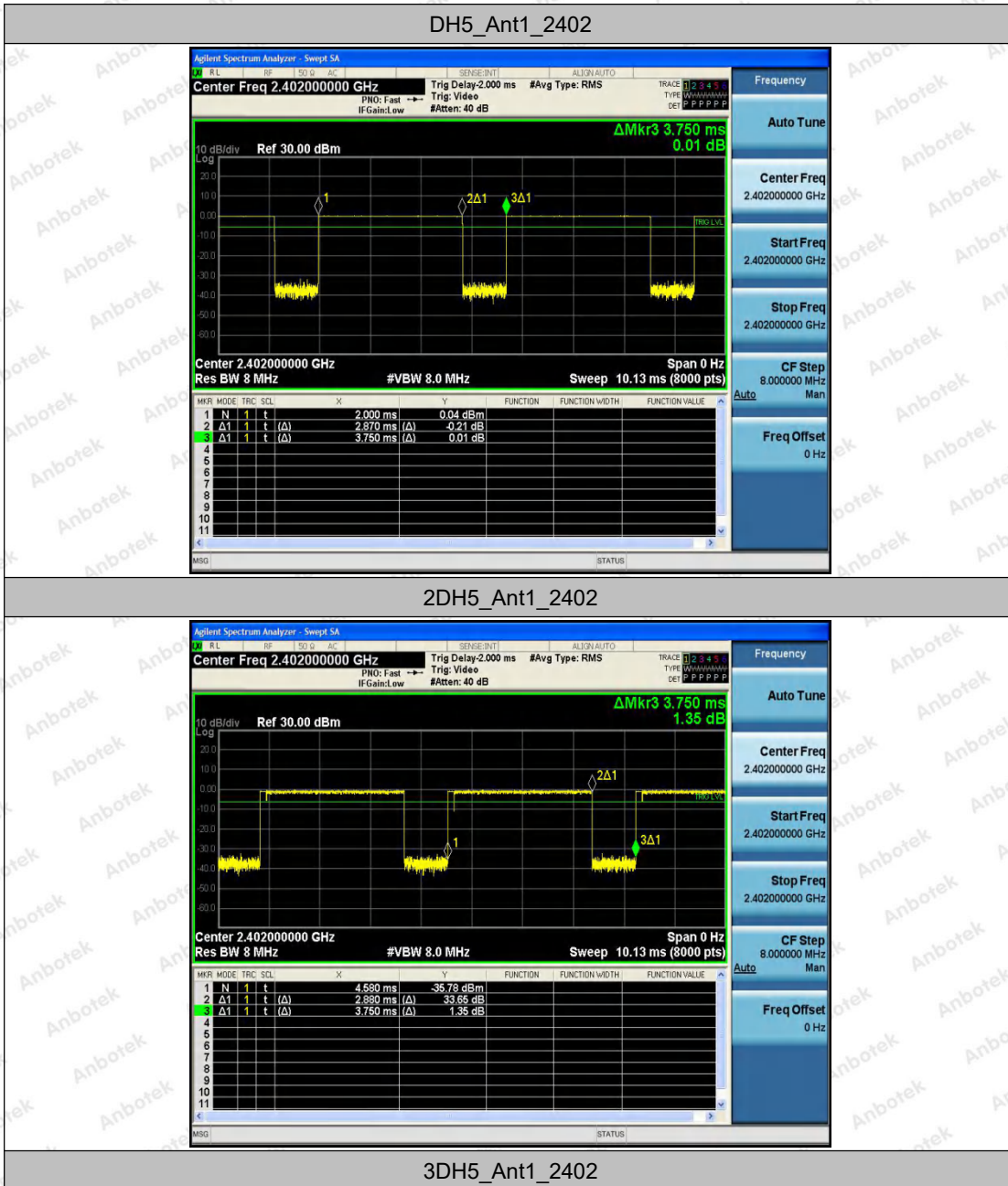
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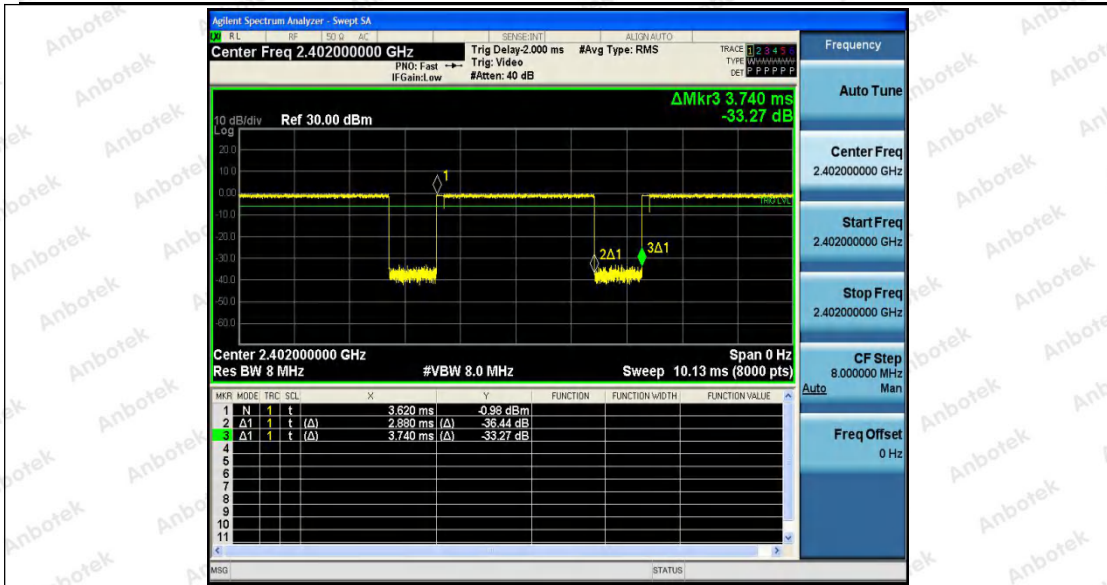
Appendix I: Duty Cycle

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	2.88	3.74	0.770 1	77.01	1.13	---	PASS

Test Graphs





---End---