

Appendix Test Data

Report No.:	18220WC20116801	Test Sample No.:	1-2-2
Start Test Date:	2022.6.1	Finish Test Date:	2022.6.8
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.7℃	Relative Humidity:	52.8 %
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	2401.541	2402.483	---	PASS
		2441	0.942	2440.538	2441.480	---	PASS
		2480	0.939	2479.547	2480.486	---	PASS
2DH5	Ant1	2402	1.260	2401.370	2402.630	---	PASS
		2441	1.260	2440.373	2441.633	---	PASS
		2480	1.272	2479.364	2480.636	---	PASS
3DH5	Ant1	2402	1.296	2401.343	2402.639	---	PASS
		2441	1.275	2440.352	2441.627	---	PASS
		2480	1.305	2479.346	2480.651	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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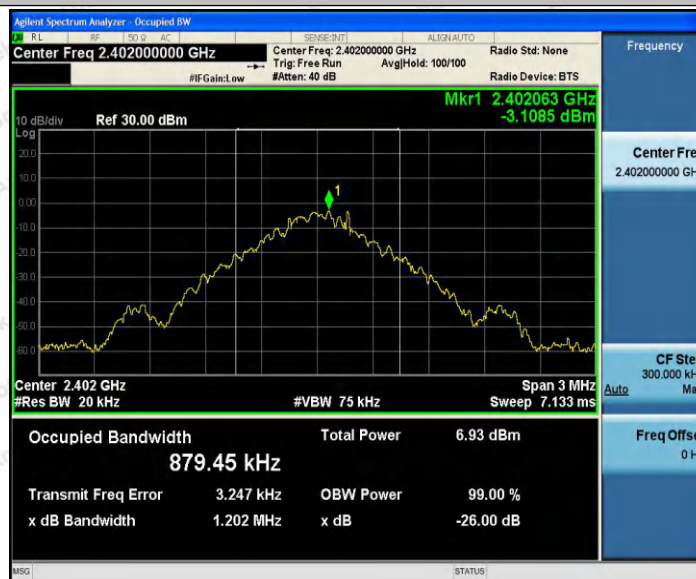
Appendix B: Occupied Channel Bandwidth

Test Result

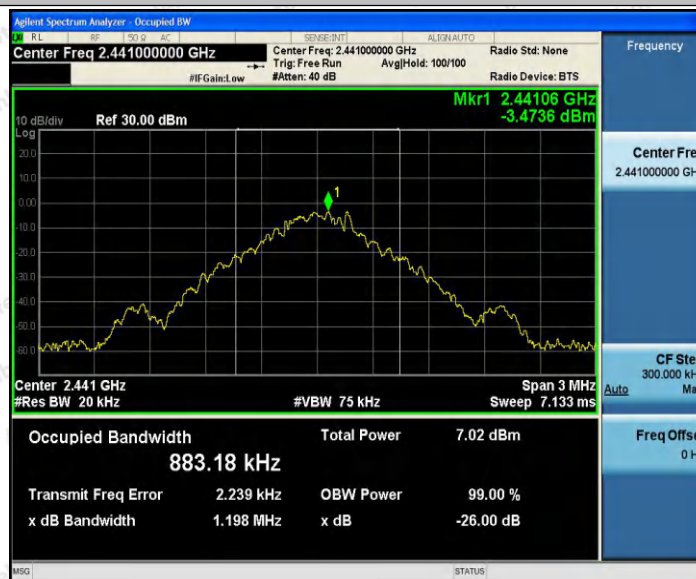
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87945	2401.56 4	2402.443	---	PASS
		2441	0.88318	2440.56 1	2441.444	---	PASS
		2480	0.88707	2479.55 8	2480.445	---	PASS
2DH5	Ant1	2402	1.2001	2401.40 1	2402.601	---	PASS
		2441	1.1892	2440.40 5	2441.595	---	PASS
		2480	1.1955	2479.40 1	2480.597	---	PASS
3DH5	Ant1	2402	1.2123	2401.38 6	2402.598	---	PASS
		2441	1.2089	2440.38 7	2441.596	---	PASS
		2480	1.2059	2479.38 9	2480.595	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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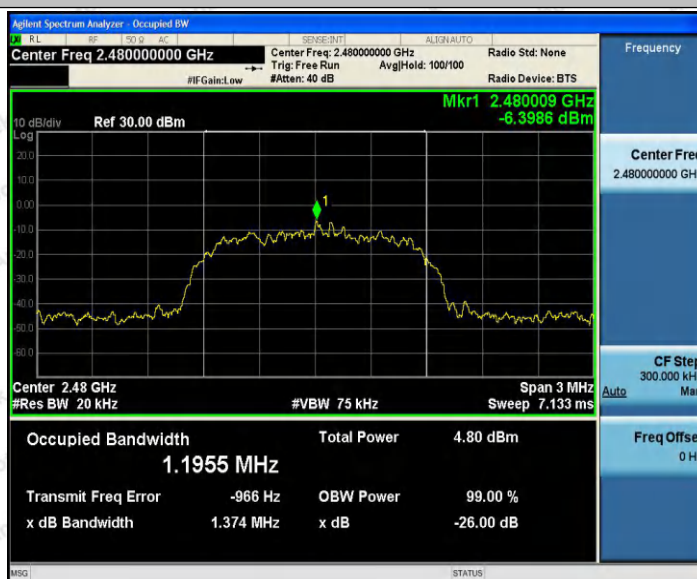
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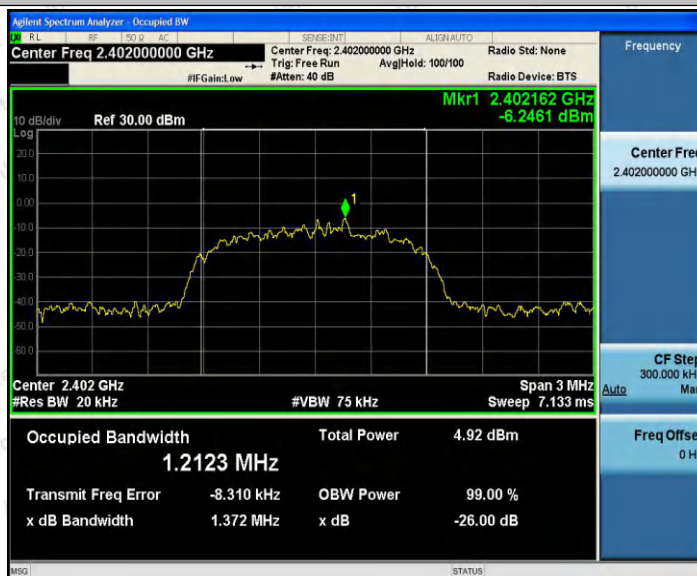
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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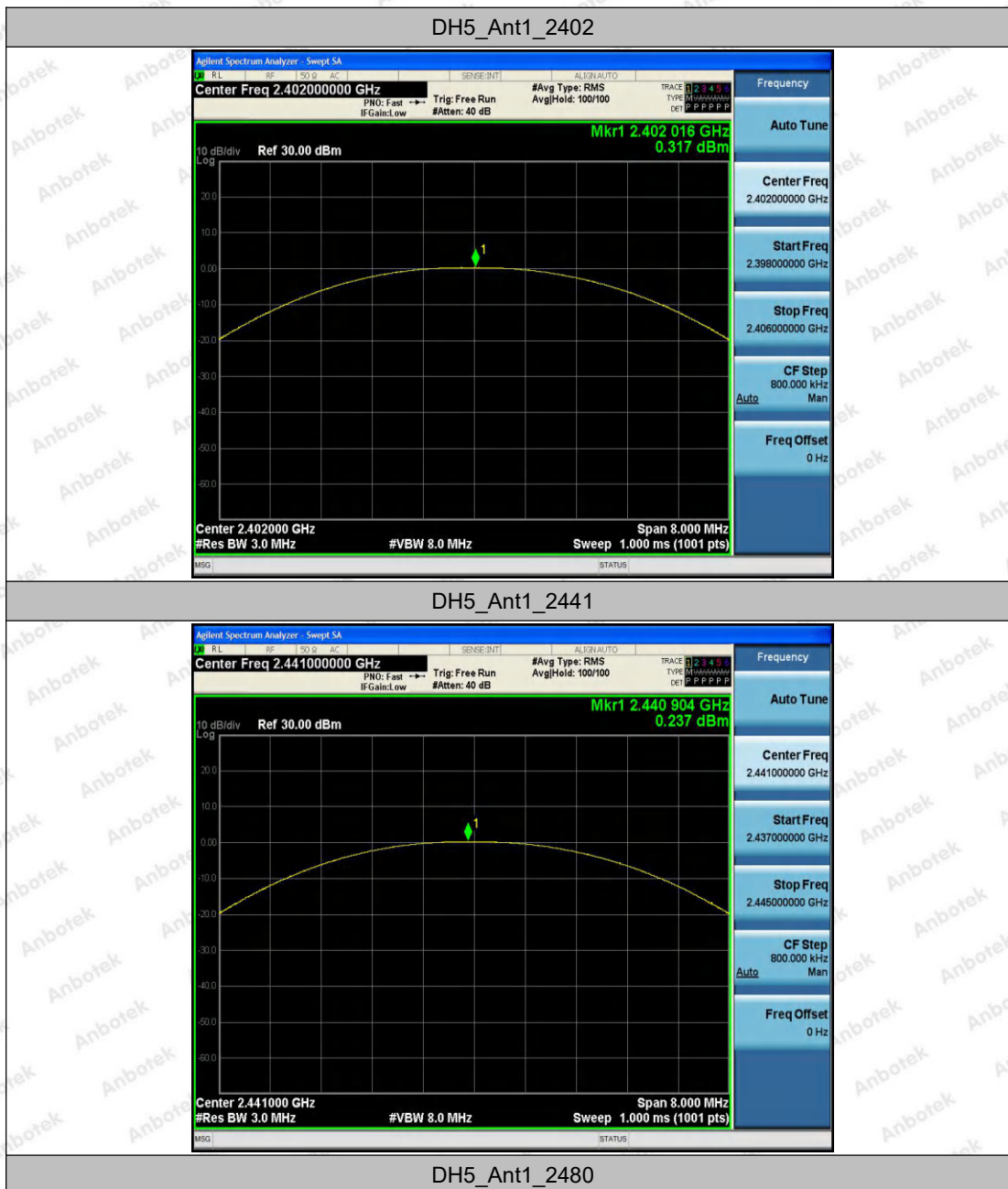
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.32	≤20.97	PASS
		2441	0.24	≤20.97	PASS
		2480	0.27	≤20.97	PASS
2DH5	Ant1	2402	-0.1	≤20.97	PASS
		2441	-0.19	≤20.97	PASS
		2480	-0.13	≤20.97	PASS
3DH5	Ant1	2402	-0.06	≤20.97	PASS
		2441	-0.19	≤20.97	PASS
		2480	-0.1	≤20.97	PASS

Test Graphs

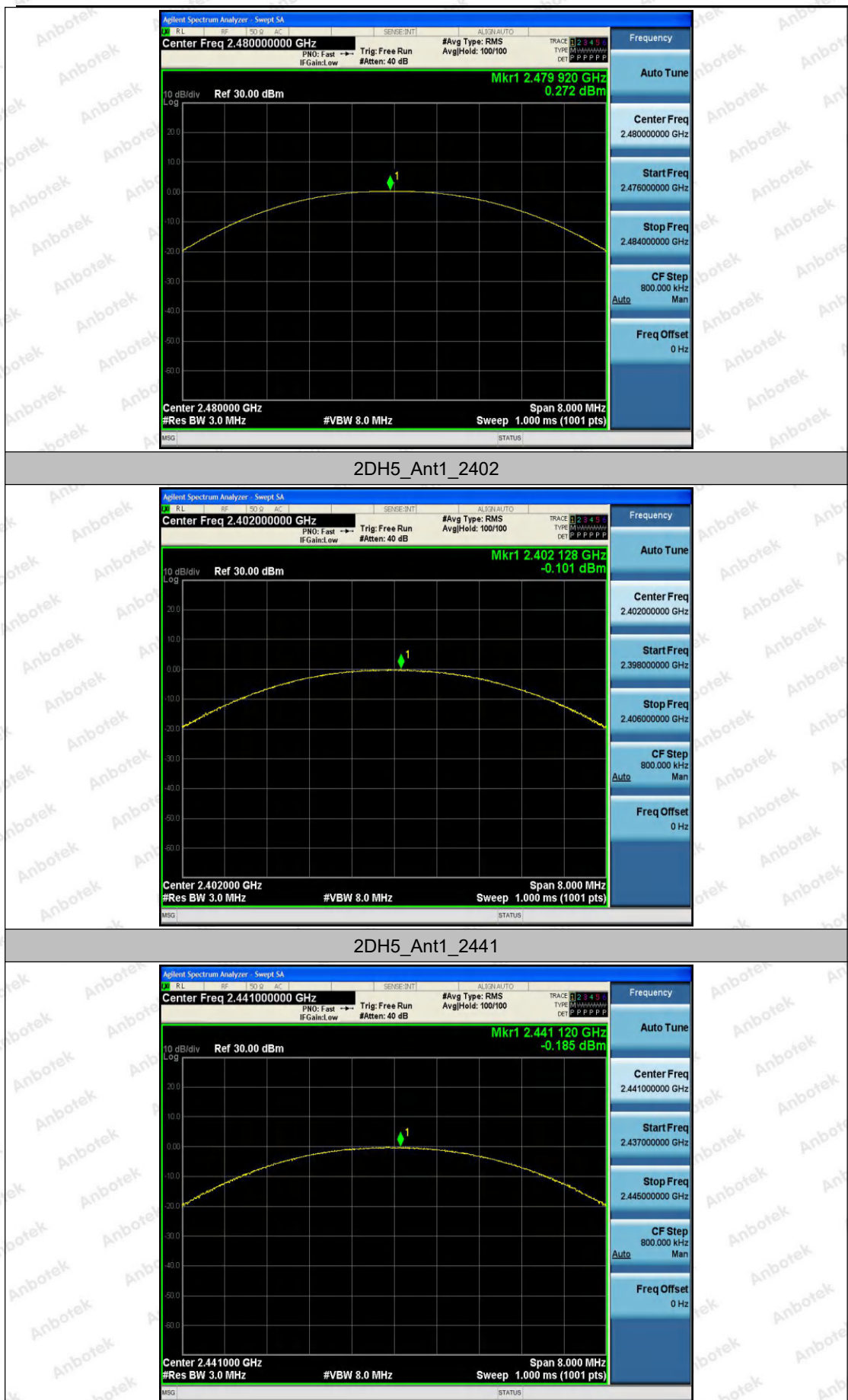


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2DH5_Ant1_2480



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	0.972	≥ 0.942	PASS
2DH5	Ant1	Hop	1.018	≥ 0.848	PASS
3DH5	Ant1	Hop	1.022	≥ 0.870	PASS

Test Graphs





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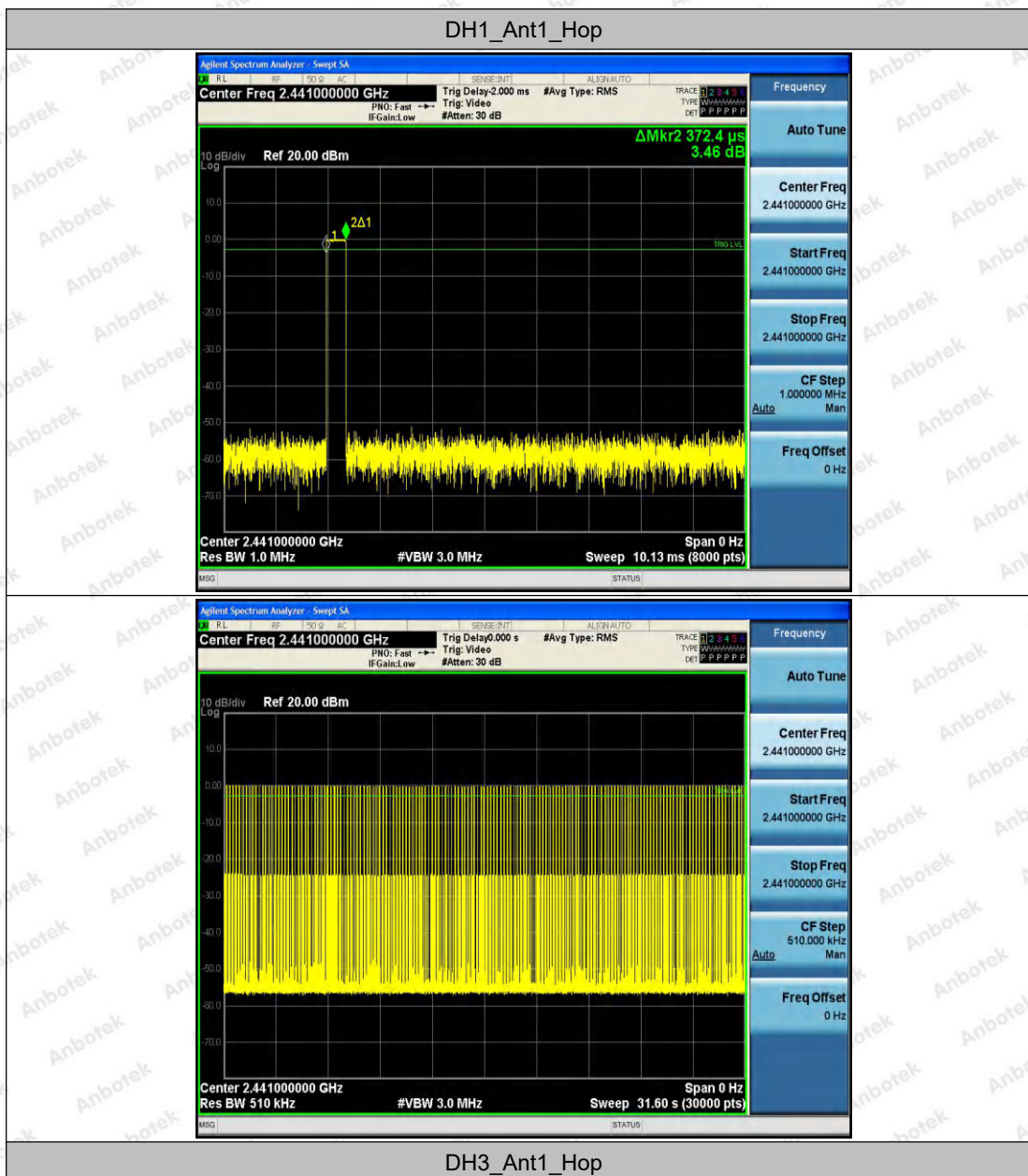
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Appendix E: Time of occupancy

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	95	0.273	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS

Test Graphs



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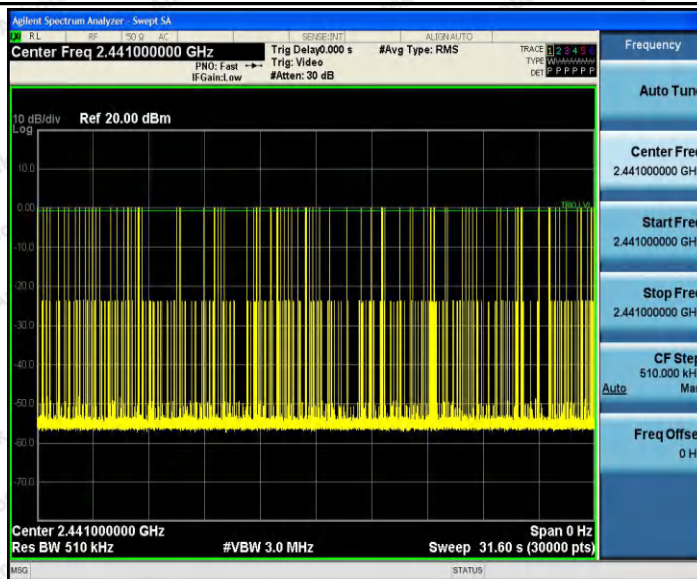
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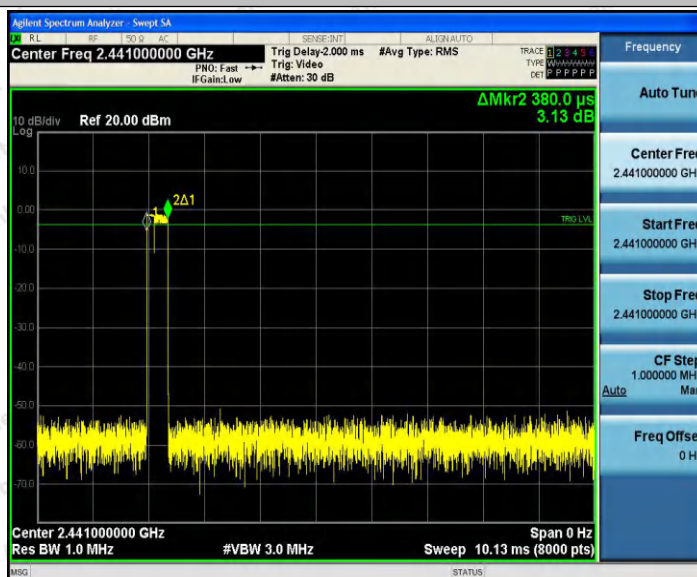
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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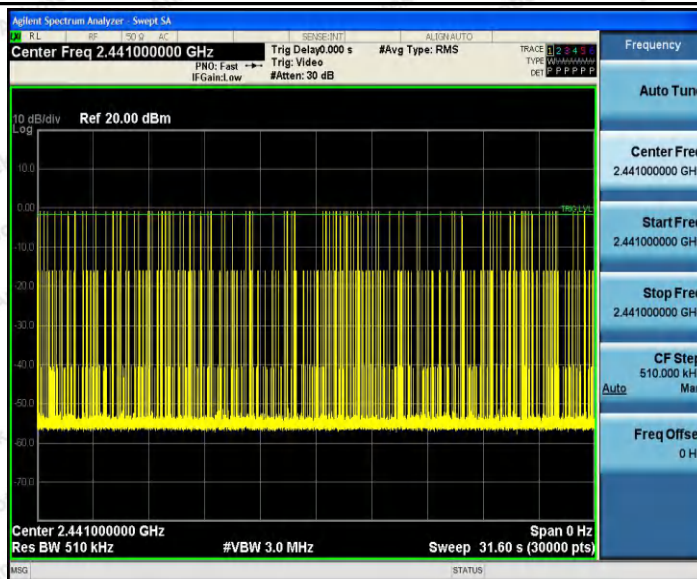


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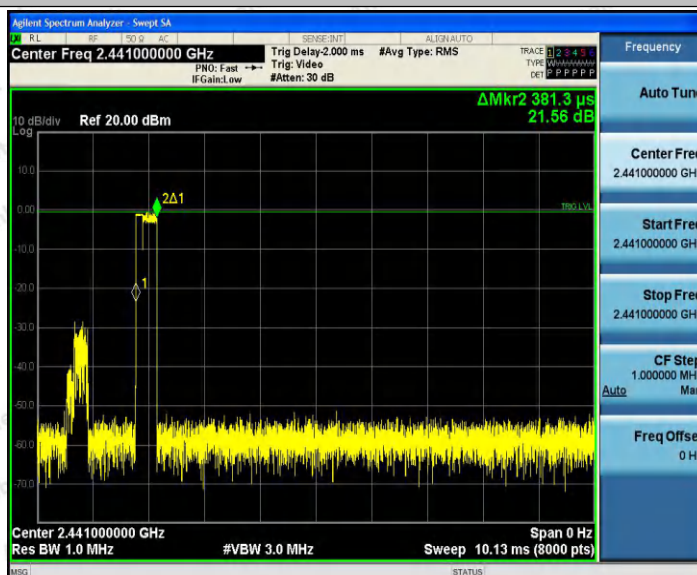
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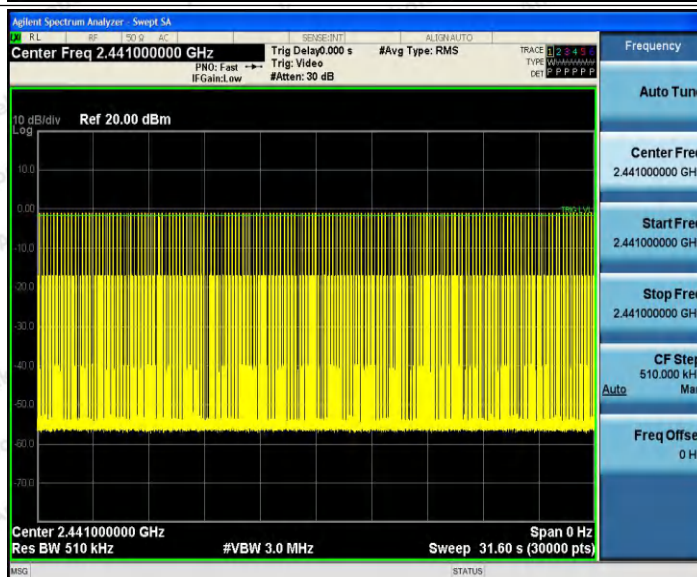
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

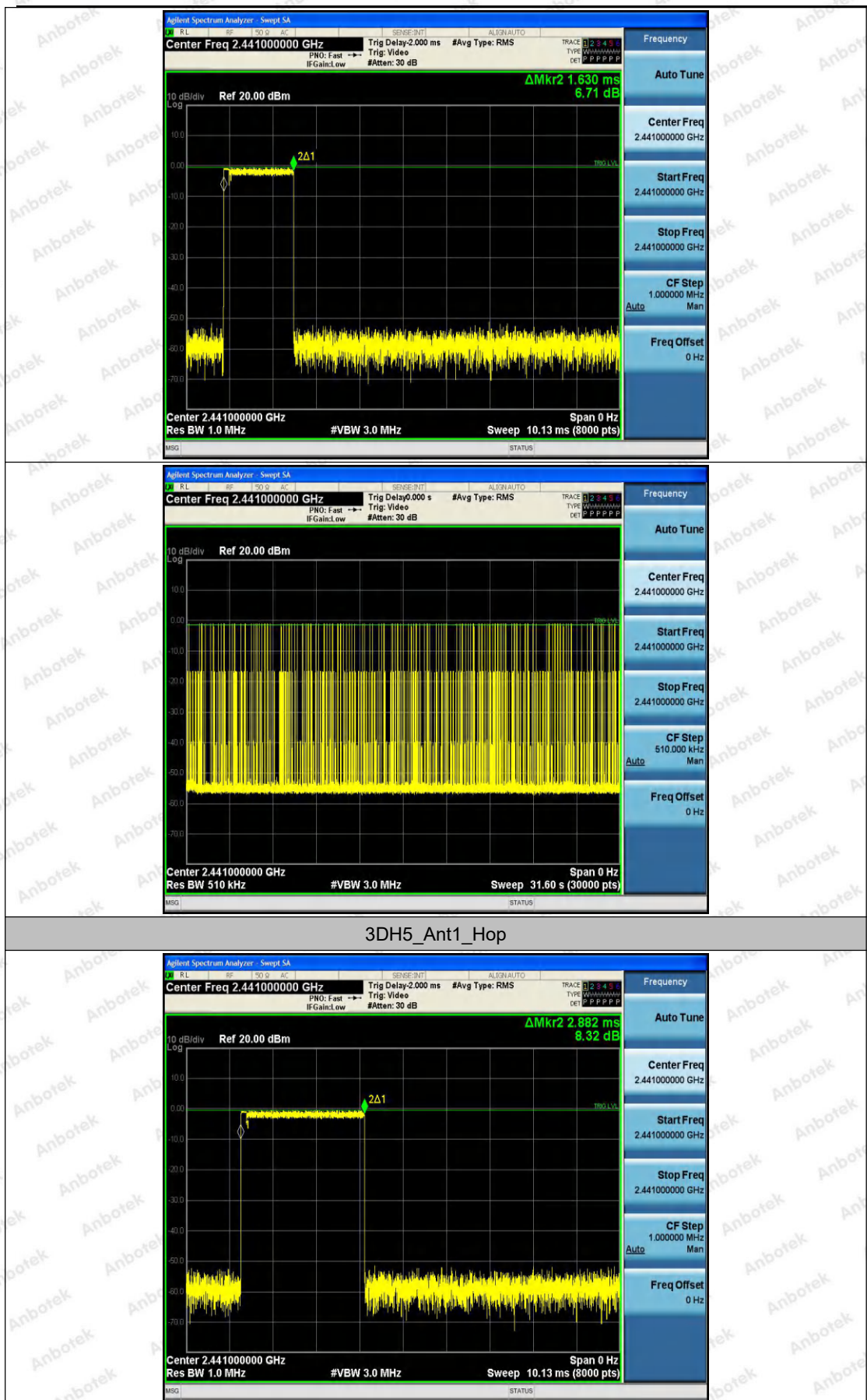


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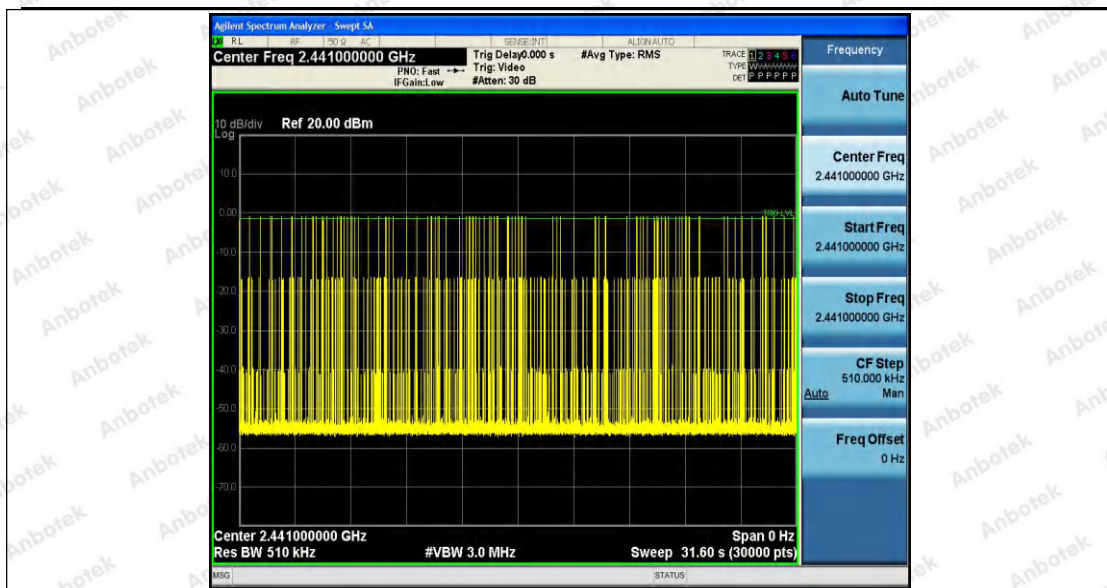
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3DH5_Ant1_Hop



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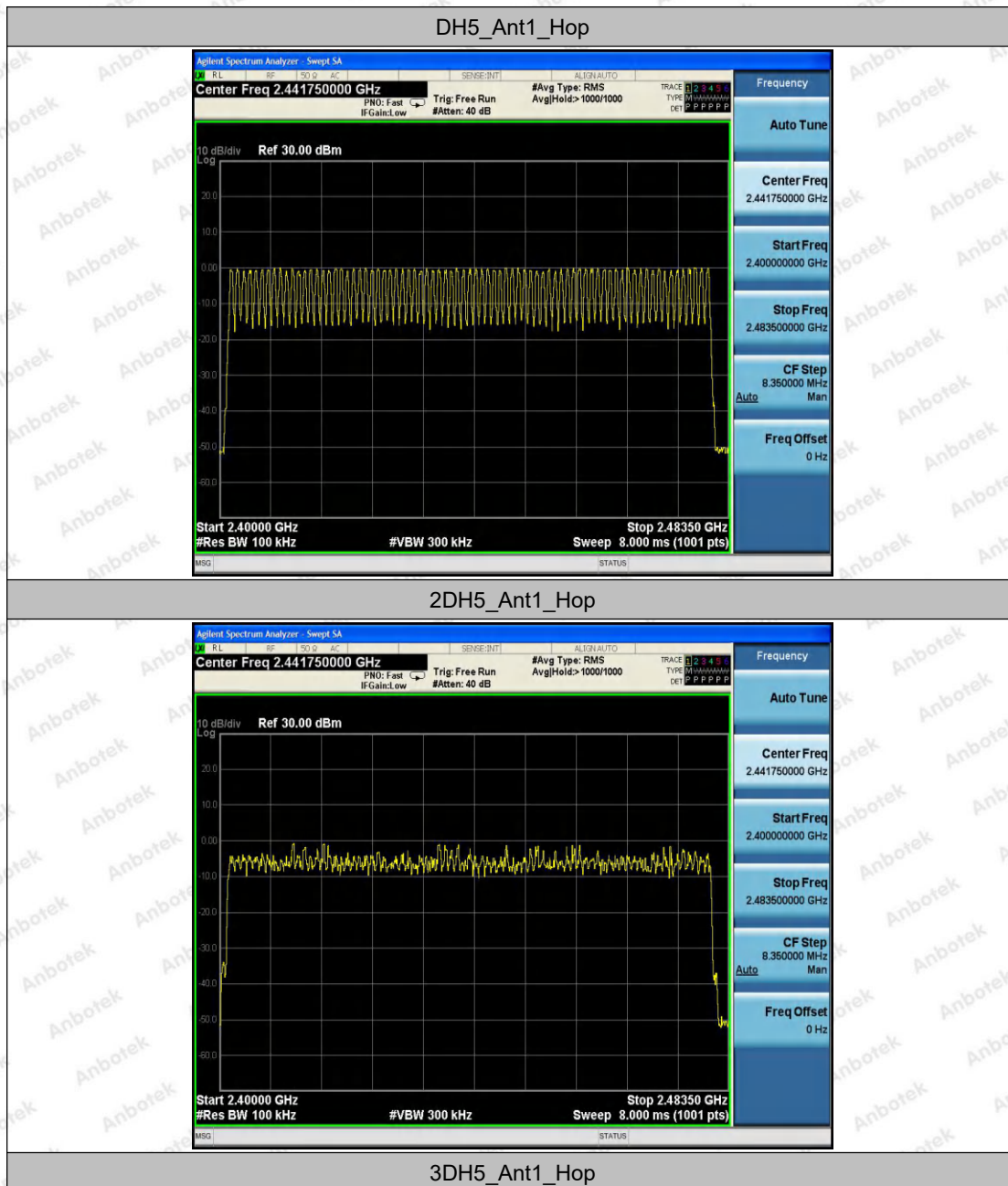
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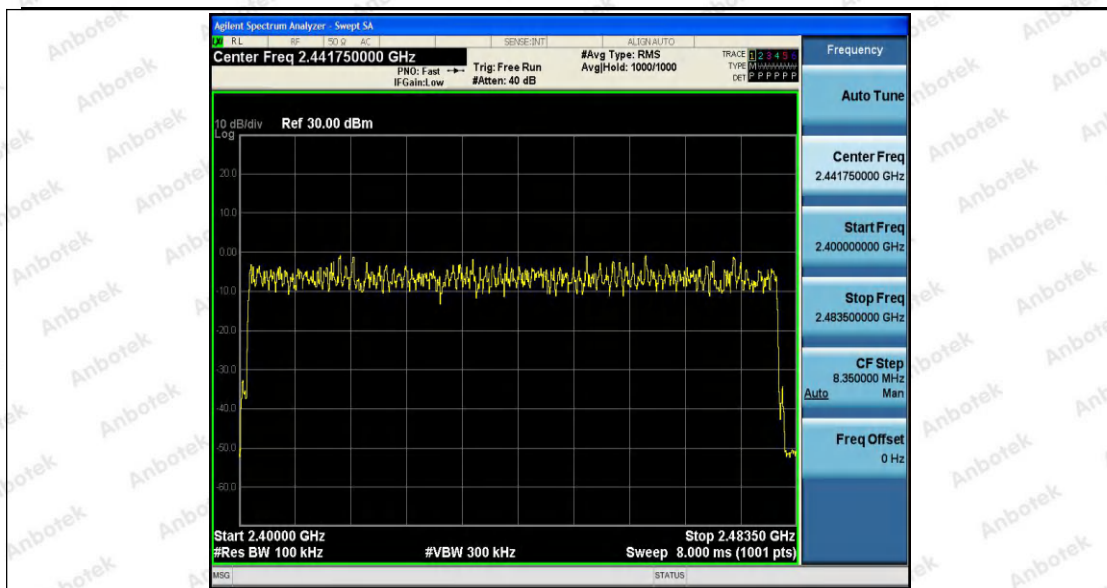
Appendix F: Number of hopping channels

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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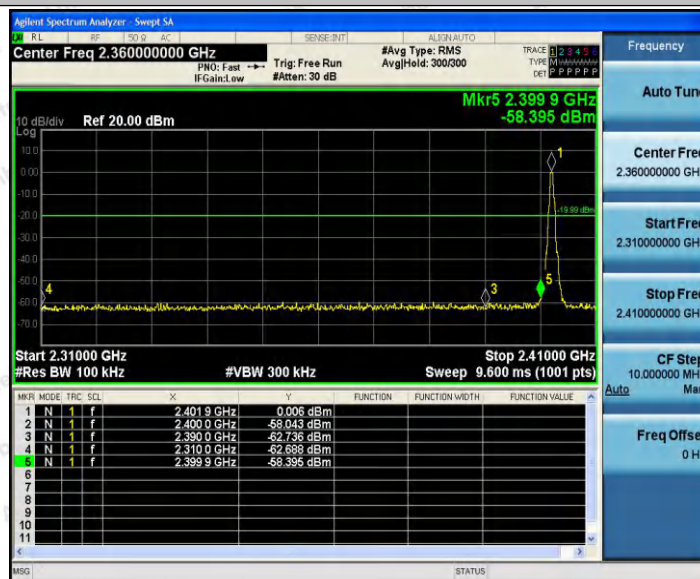
Appendix G: Band edge measurements

Test Result

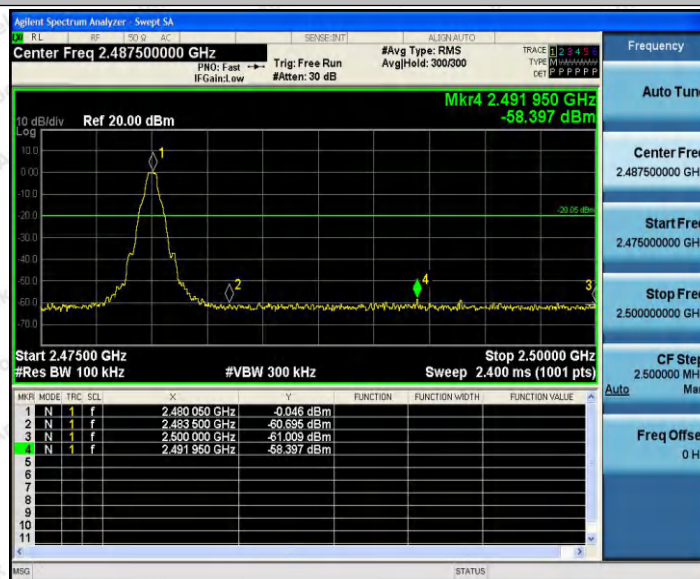
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.01	-58.4	≤-19.99	PASS
		High	2480	-0.05	-58.4	≤-20.05	PASS
		Low	Hop	-0.32	-60.07	≤-20.32	PASS
		High	Hop	-0.41	-61.35	≤-20.41	PASS
2DH5	Ant1	Low	2402	-0.83	-56.4	≤-20.83	PASS
		High	2480	-1.45	-59.71	≤-21.45	PASS
		Low	Hop	-4.20	-59.77	≤-24.2	PASS
		High	Hop	-4.52	-62.8	≤-24.52	PASS
3DH5	Ant1	Low	2402	-1.26	-57.18	≤-21.26	PASS
		High	2480	-1.19	-59.43	≤-21.19	PASS
		Low	Hop	-2.13	-59.62	≤-22.13	PASS
		High	Hop	-3.63	-60.96	≤-23.63	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



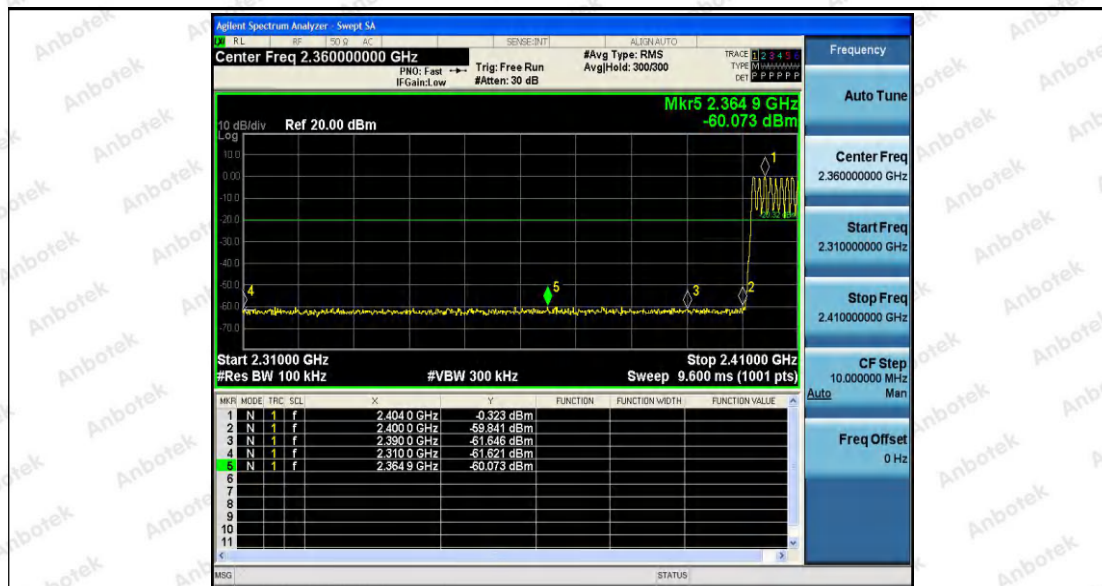
DH5_Ant1_Low_Hop

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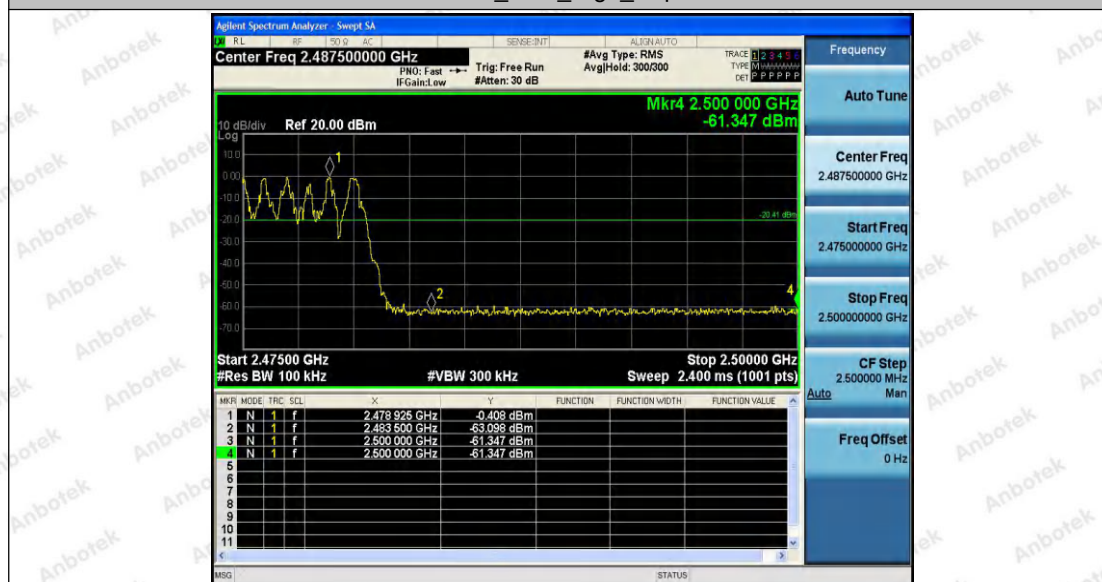
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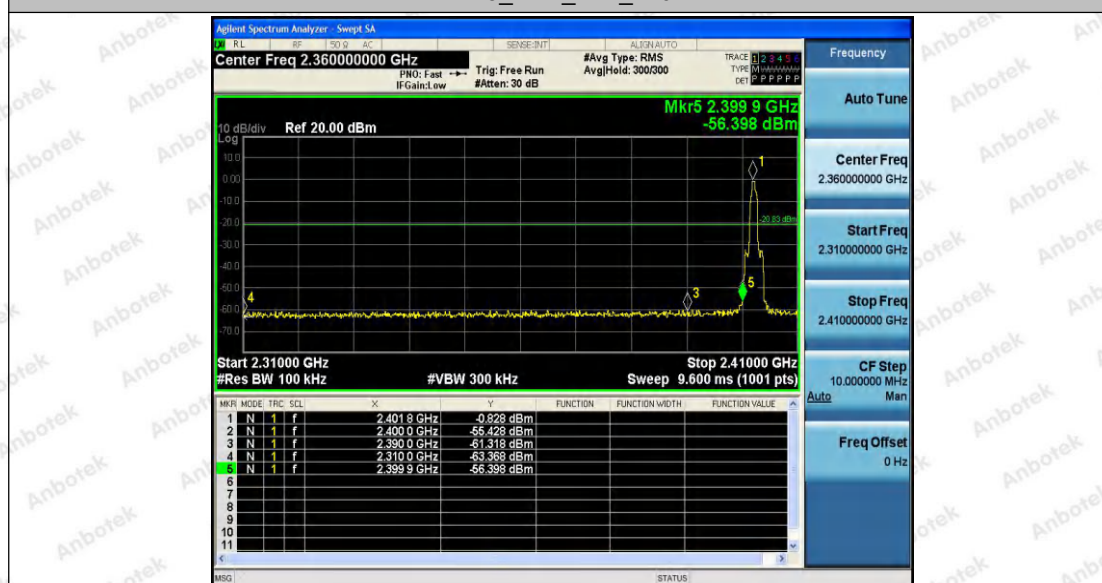
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



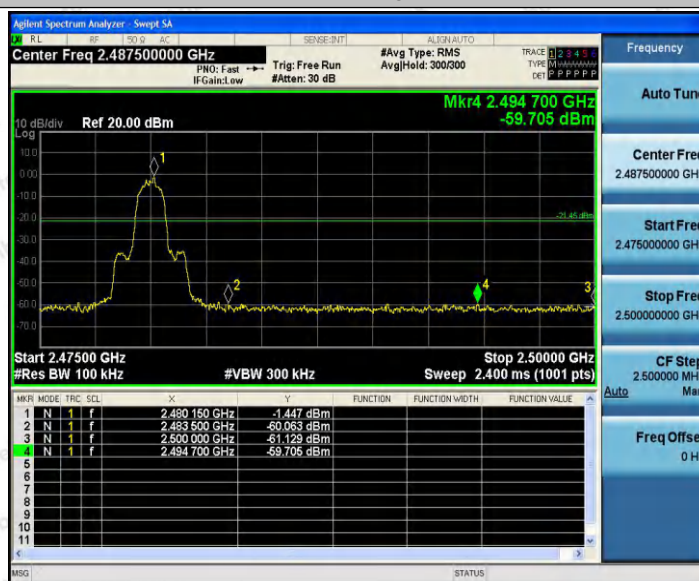
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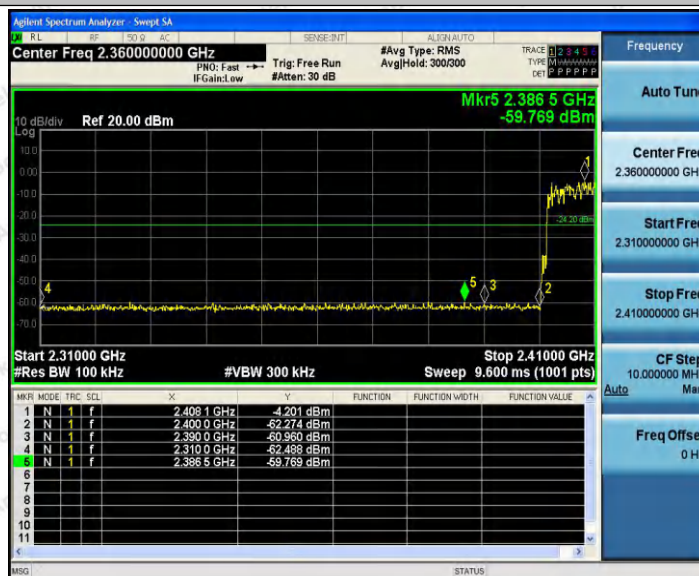
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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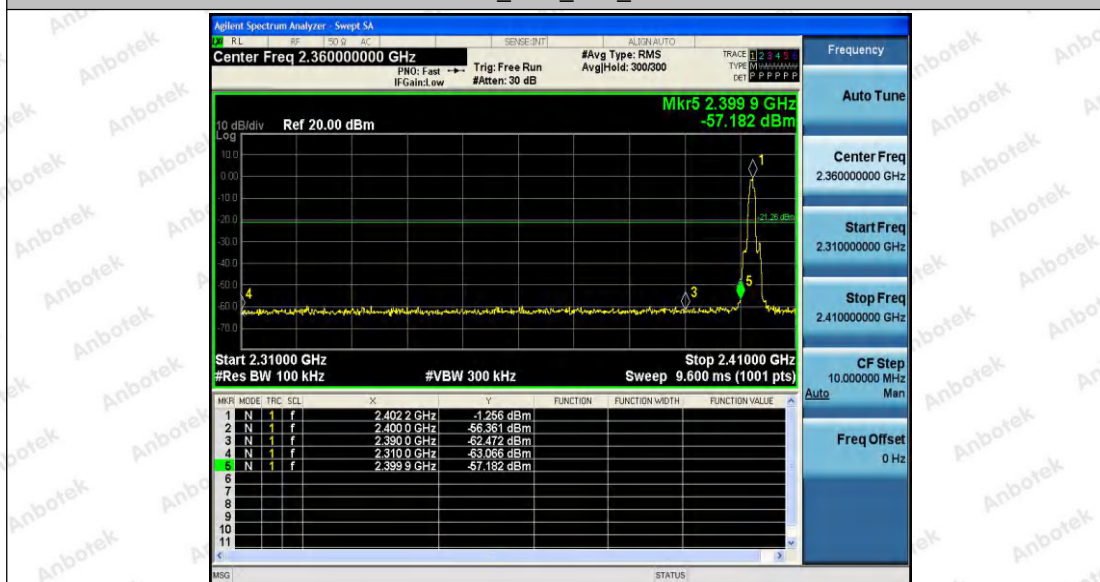
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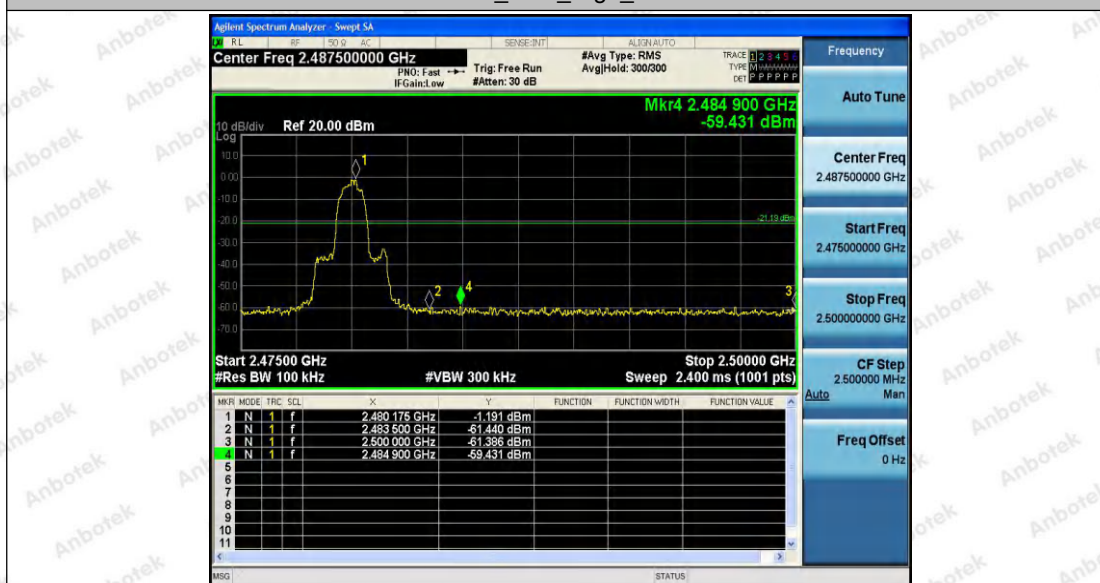
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

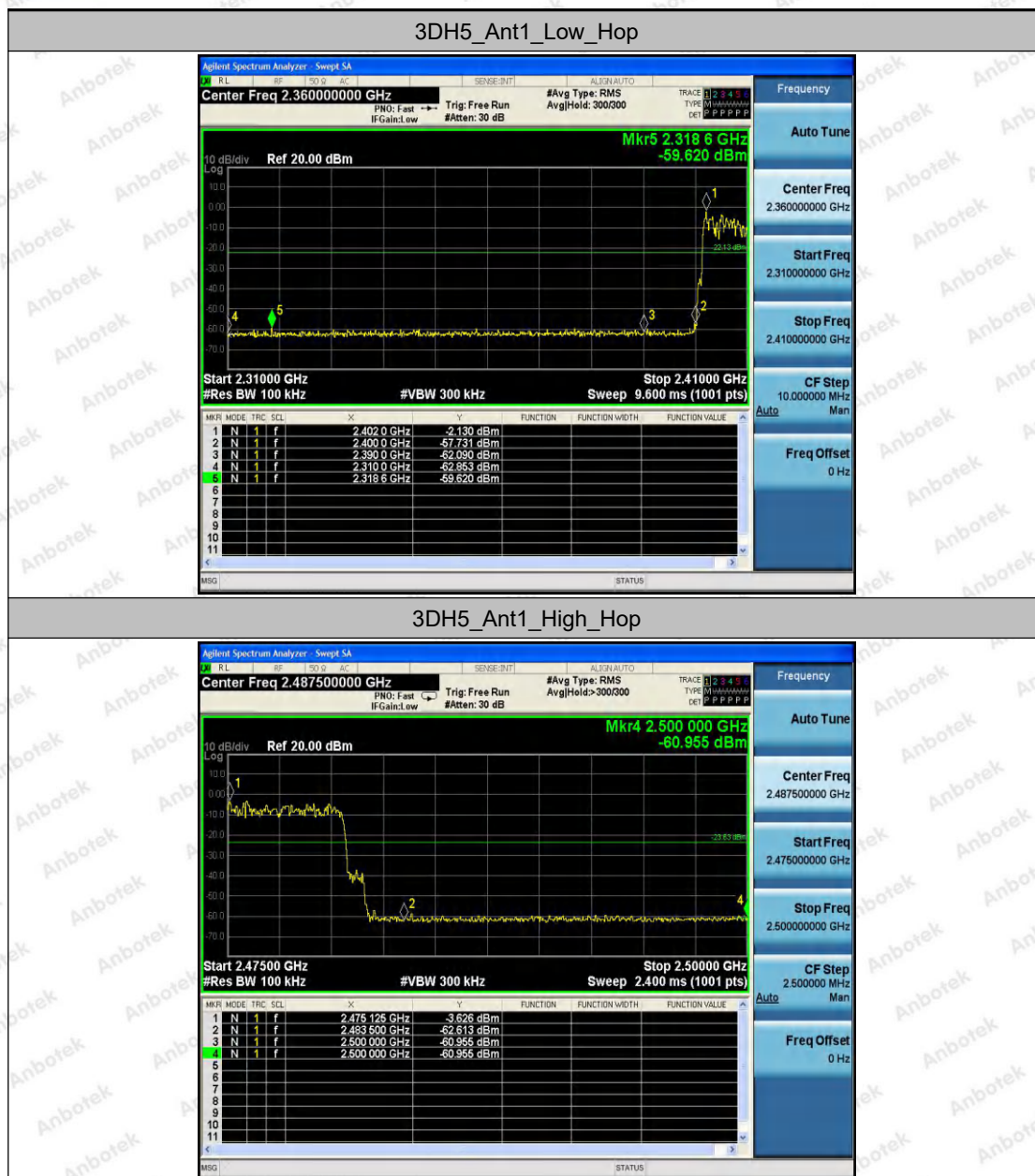


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Appendix H: Conducted Spurious Emission

Test Result

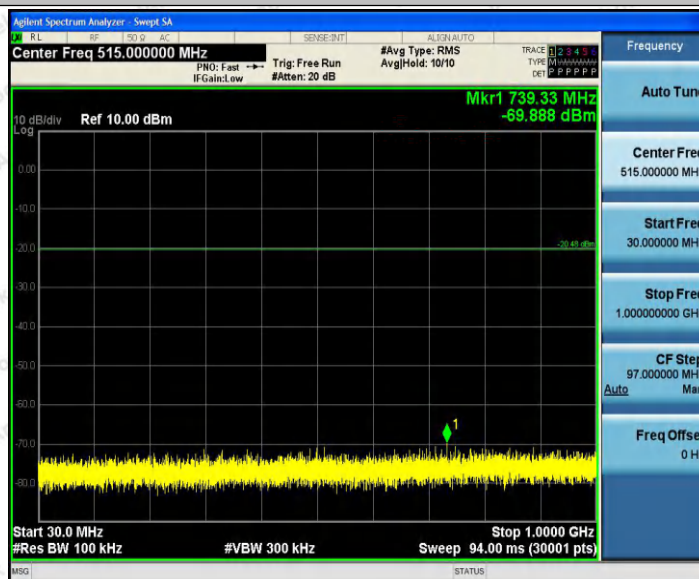
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-69.89	≤-20.48	PASS
			1000~26500	-0.48	-55.3	≤-20.48	PASS
		2441	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-69.88	≤-19.99	PASS
			1000~26500	0.01	-55.29	≤-19.99	PASS
		2480	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-70.92	≤-20.49	PASS
			1000~26500	-0.49	-55.23	≤-20.49	PASS
2DH5	Ant1	2402	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-70.53	≤-21.09	PASS
			1000~26500	-1.09	-55.58	≤-21.09	PASS
		2441	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-70.18	≤-21.11	PASS
			1000~26500	-1.11	-54.81	≤-21.11	PASS
		2480	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-69.43	≤-21.07	PASS
			1000~26500	-1.07	-54.59	≤-21.07	PASS
3DH5	Ant1	2402	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-70.36	≤-21.02	PASS
			1000~26500	-1.02	-55.55	≤-21.02	PASS
		2441	Reference	-1.01	-1.01	---	PASS
			30~1000	-1.01	-70.85	≤-21.01	PASS
			1000~26500	-1.01	-55.25	≤-21.01	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.33	≤-20.96	PASS
			1000~26500	-0.96	-55.19	≤-20.96	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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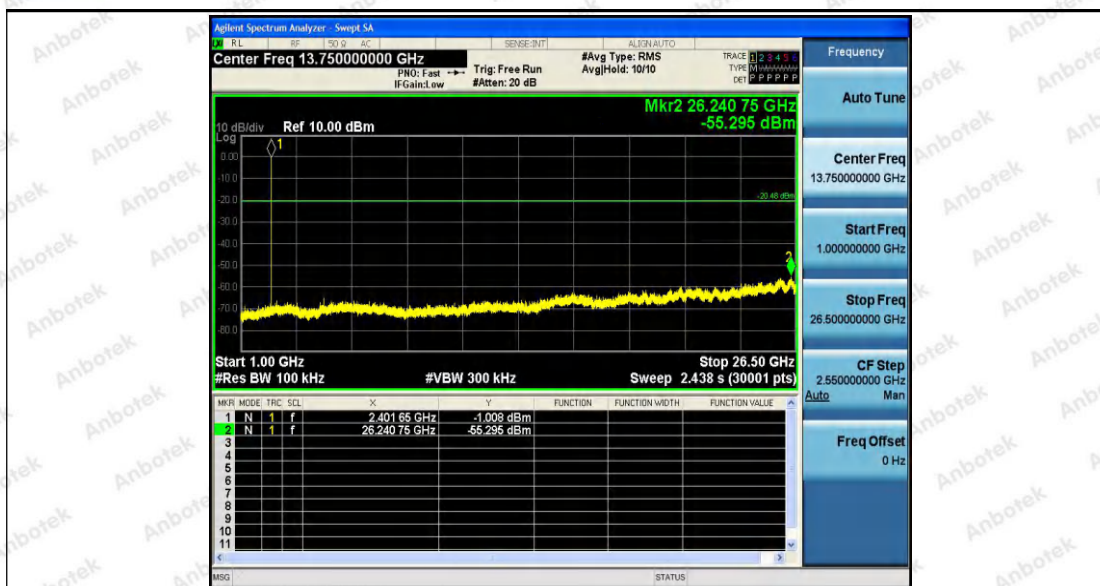
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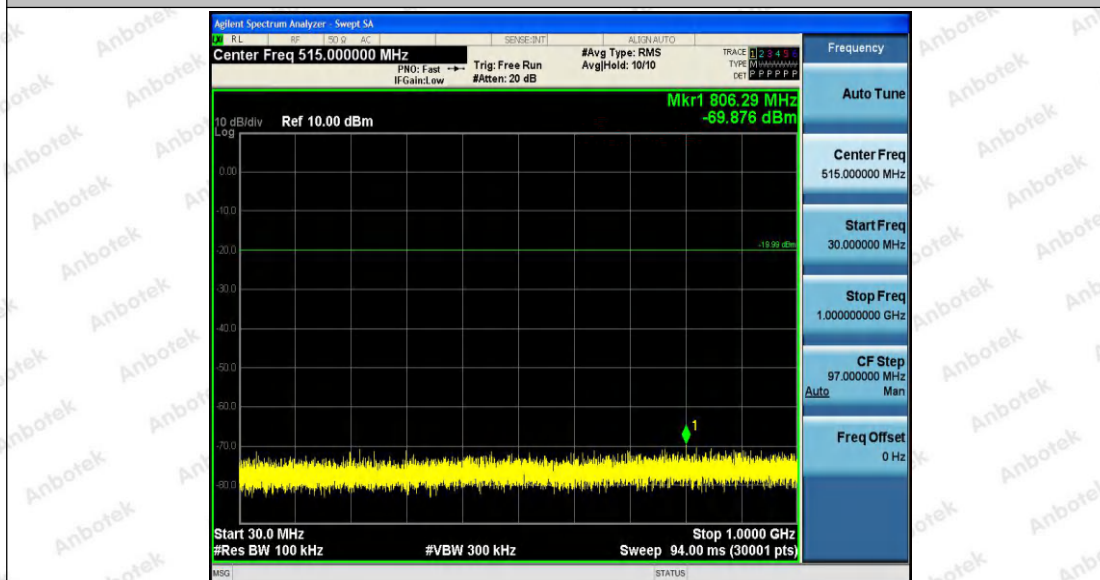
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



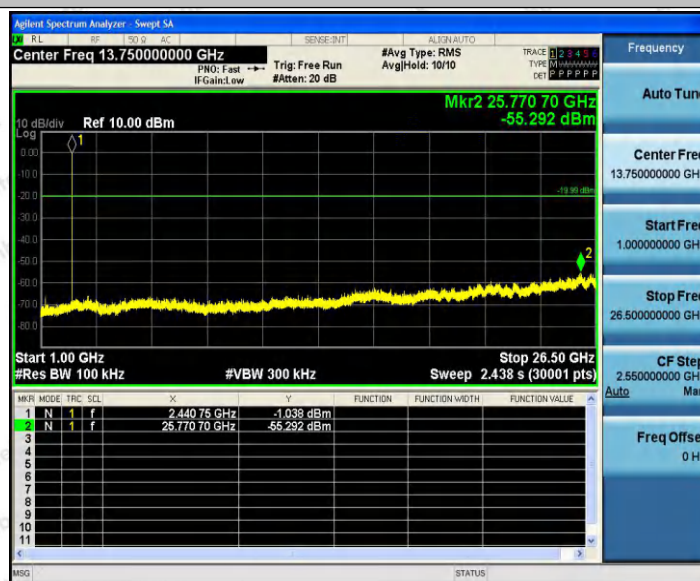
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



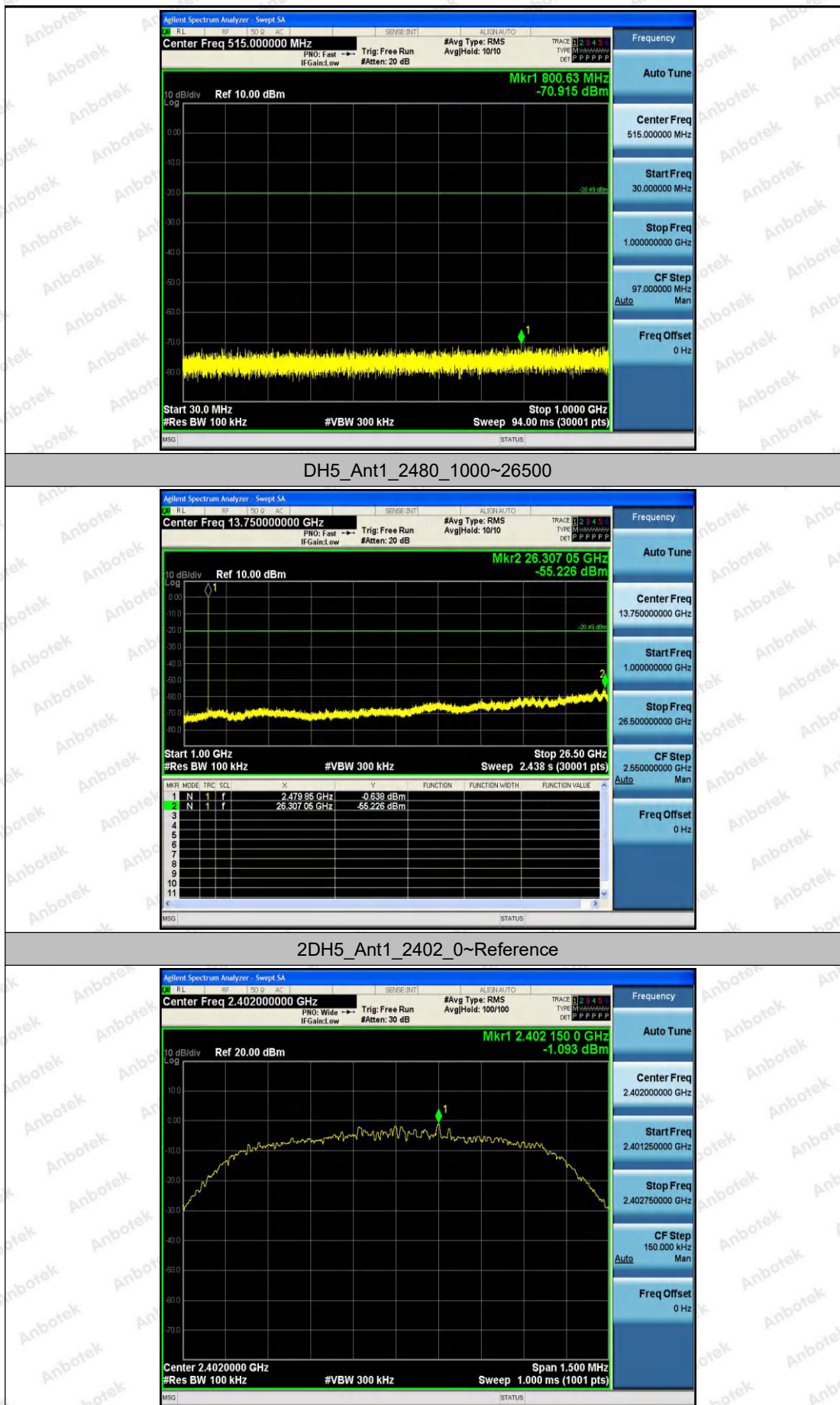
DH5_Ant1_2480_30~1000

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400-003-0500
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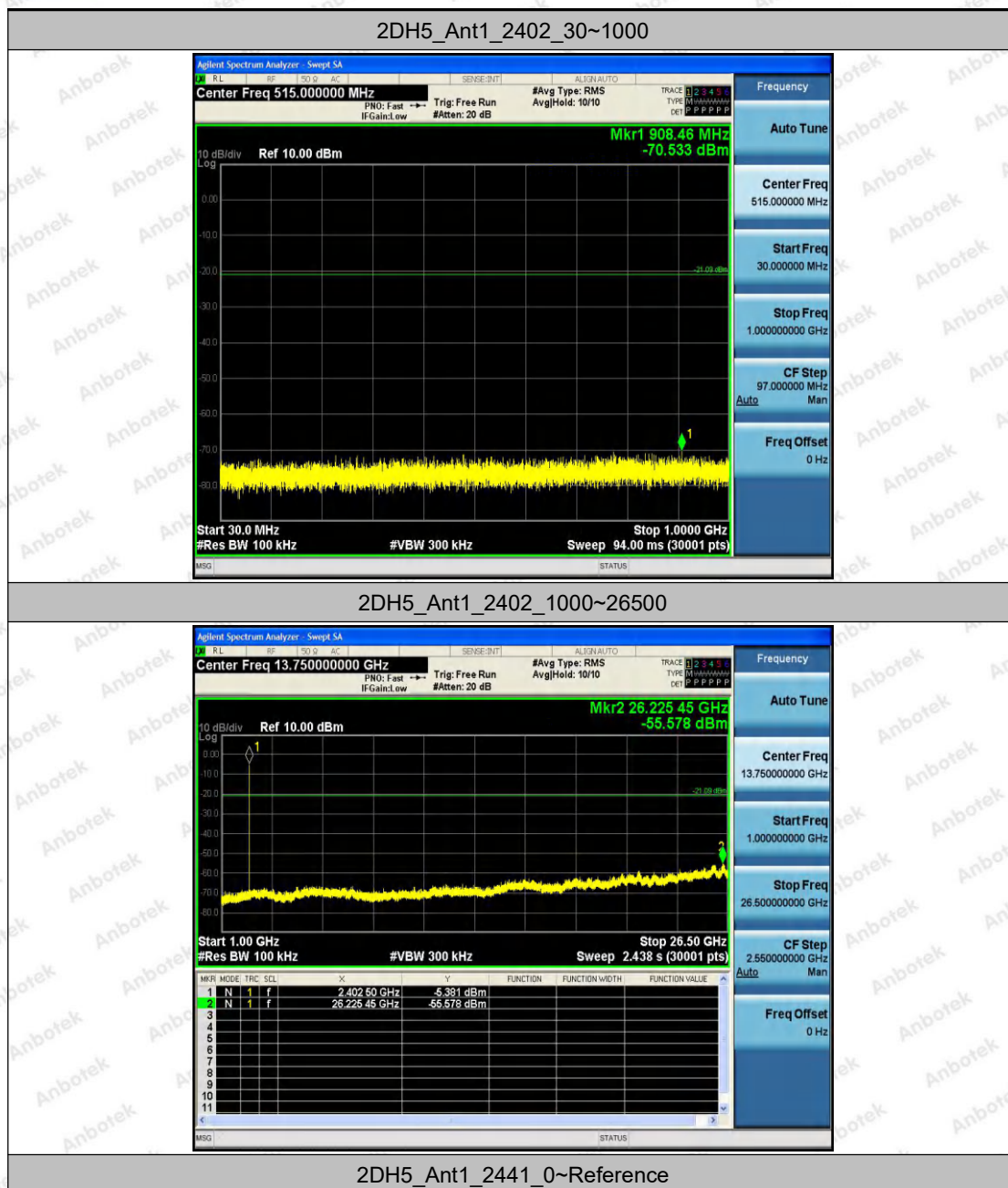


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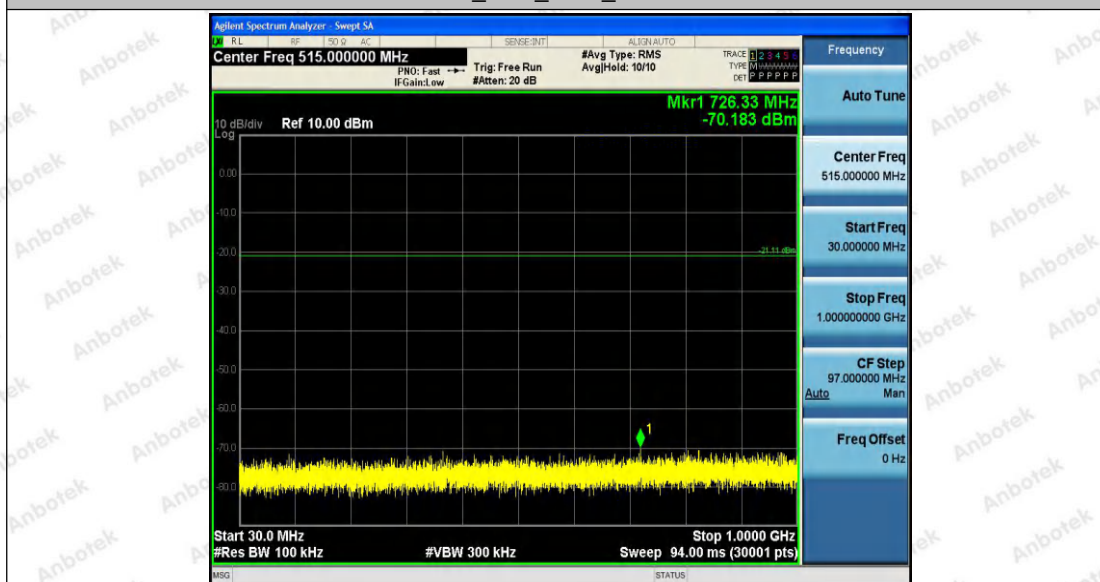
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

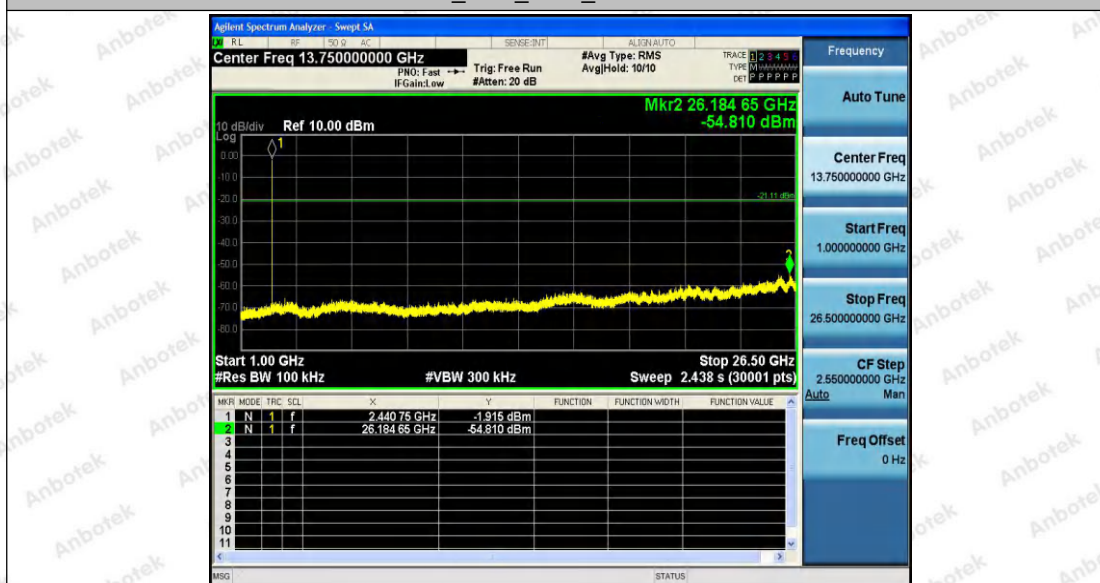
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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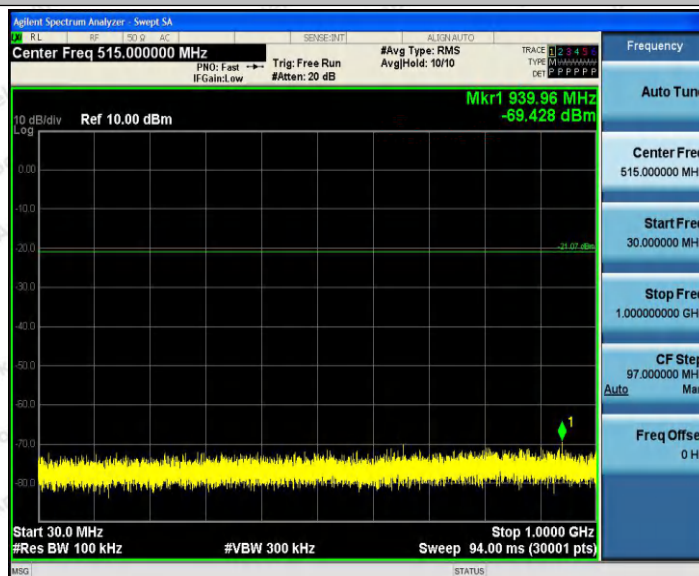
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

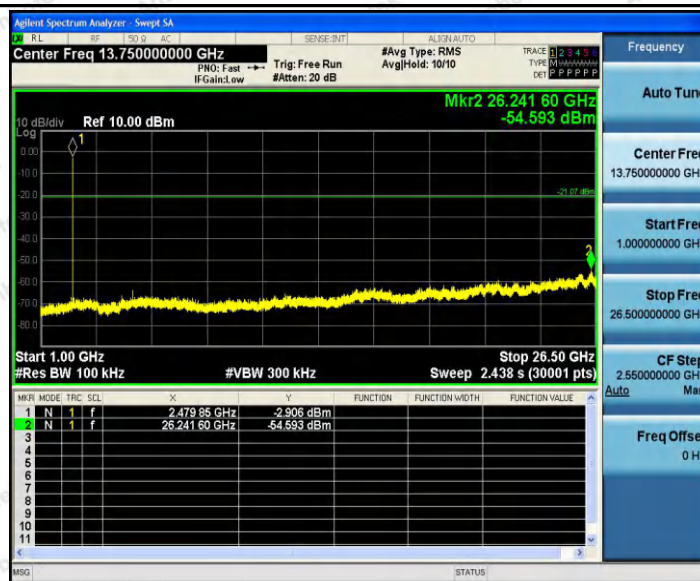
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2DH5 Ant1 2480 30~1000



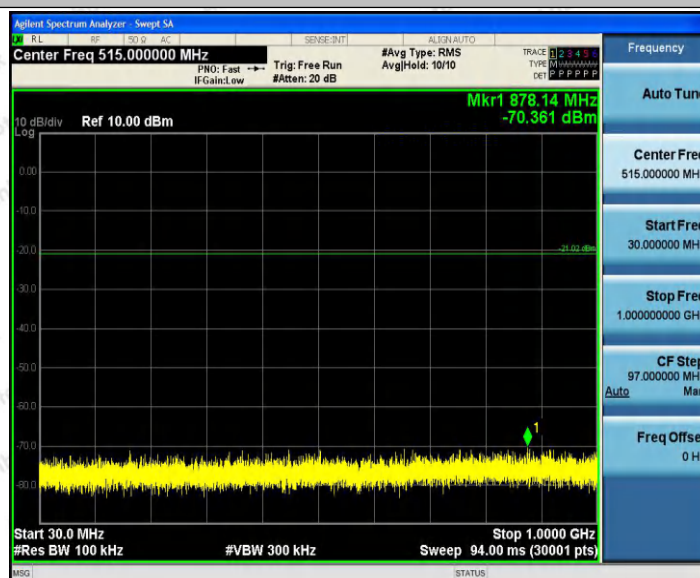
2DH5 Ant1 2480 1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



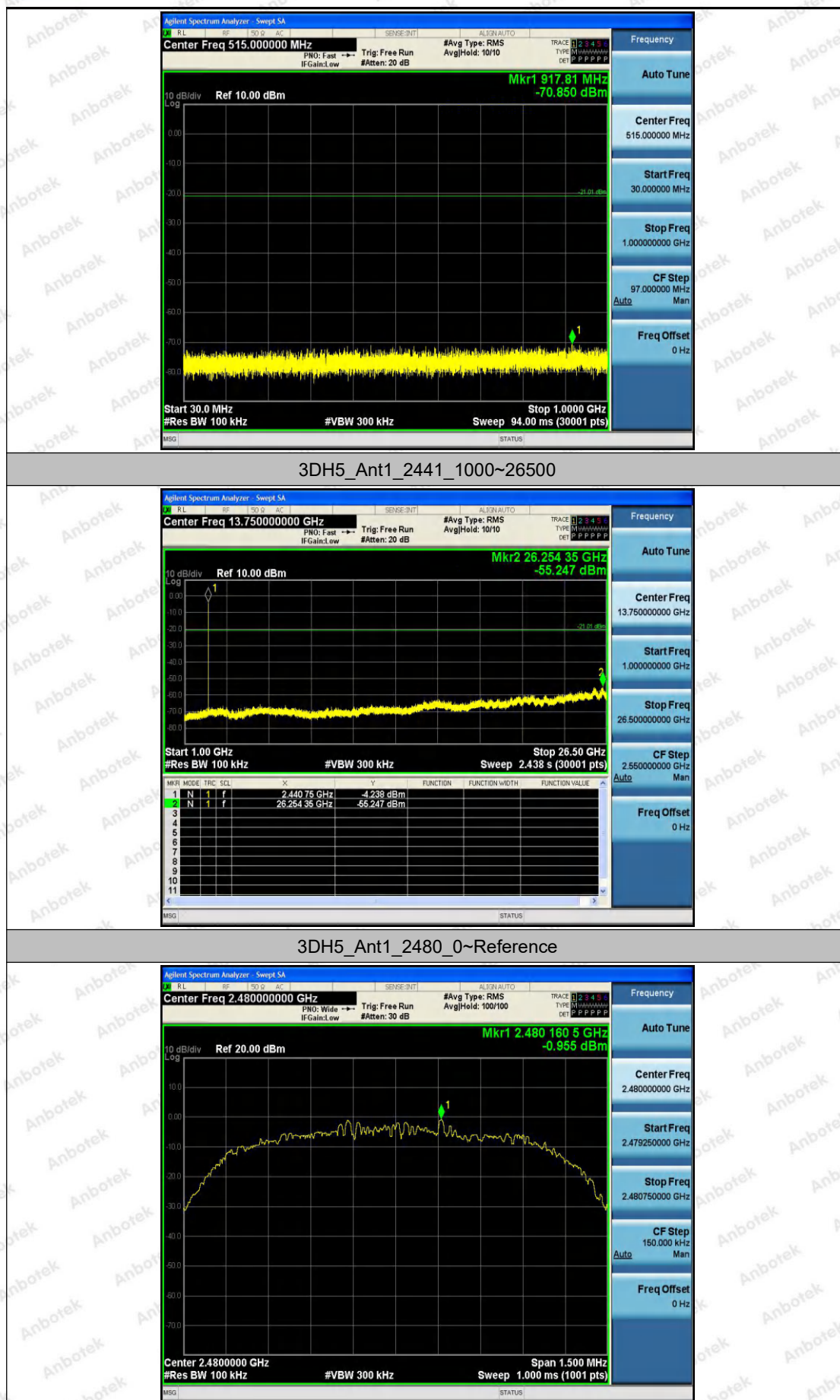
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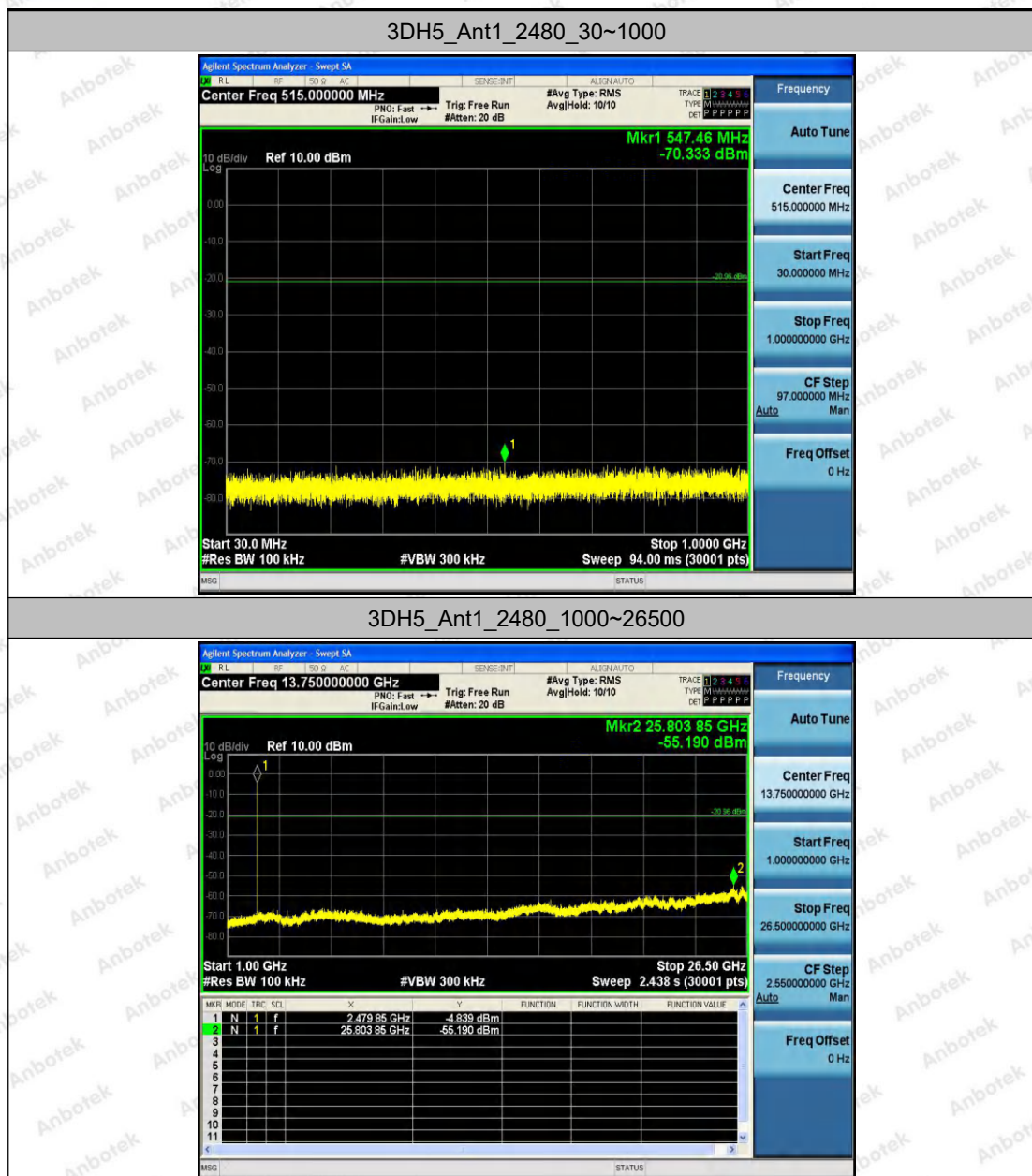


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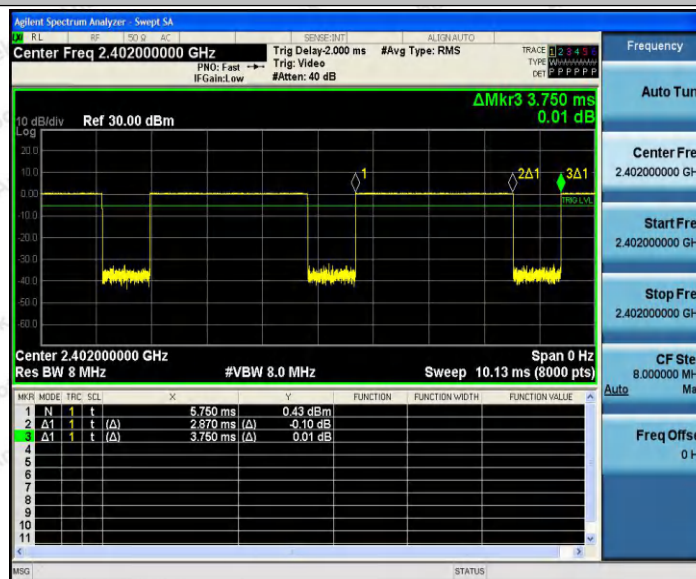
Appendix I: Duty Cycle

Test Result

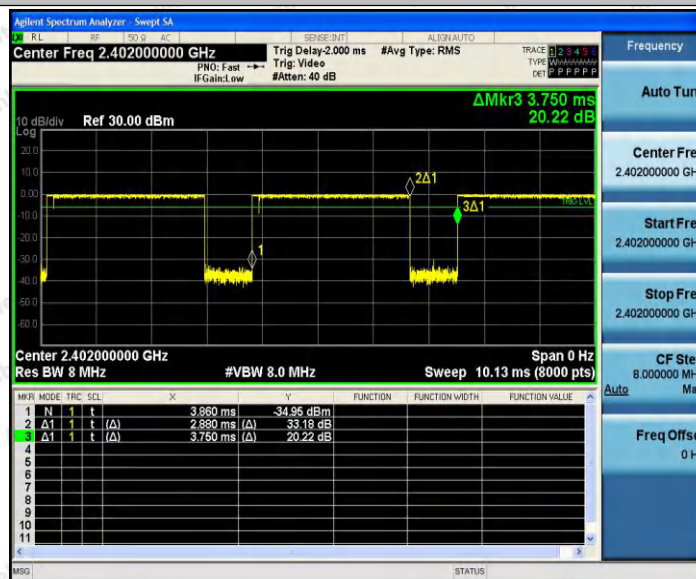
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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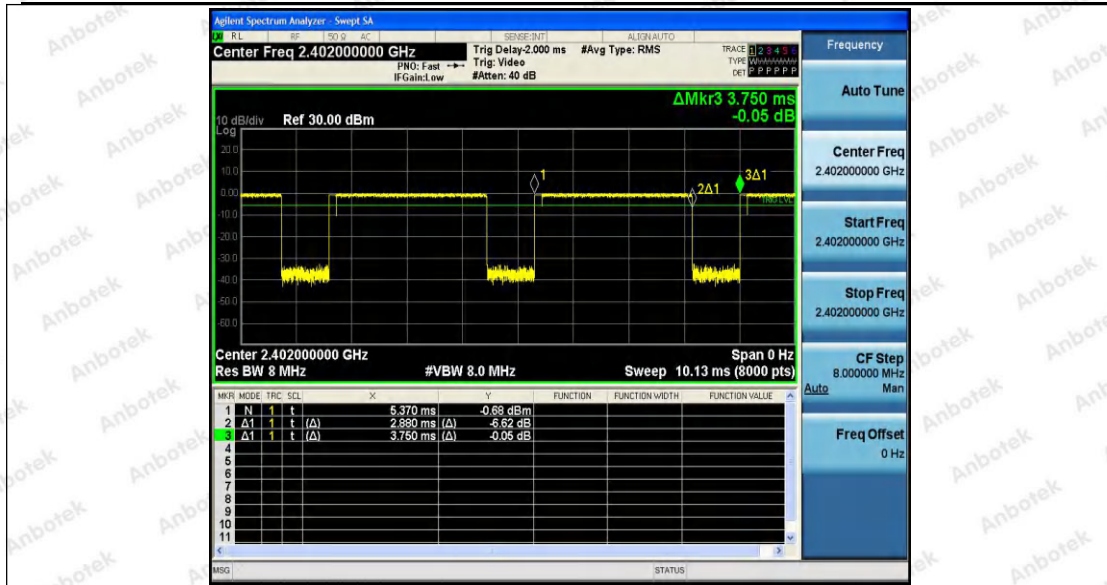
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