

Appendix Test Data

Report No.:	18220WC20062201	Test Sample No.:	1-2-2
Start Test Date:	2022.3.28	Finish Test Date:	2022.4.12
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.3 %
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	0.945	2401.556	2402.501	---	PASS
		2441	0.942	2440.556	2441.498	---	PASS
		2480	0.939	2479.556	2480.495	---	PASS
2DH5	Ant1	2402	1.332	2401.352	2402.684	---	PASS
		2441	1.329	2440.352	2441.681	---	PASS
		2480	1.344	2479.349	2480.693	---	PASS
3DH5	Ant1	2402	1.302	2401.370	2402.672	---	PASS
		2441	1.335	2440.349	2441.684	---	PASS
		2480	1.350	2479.343	2480.693	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



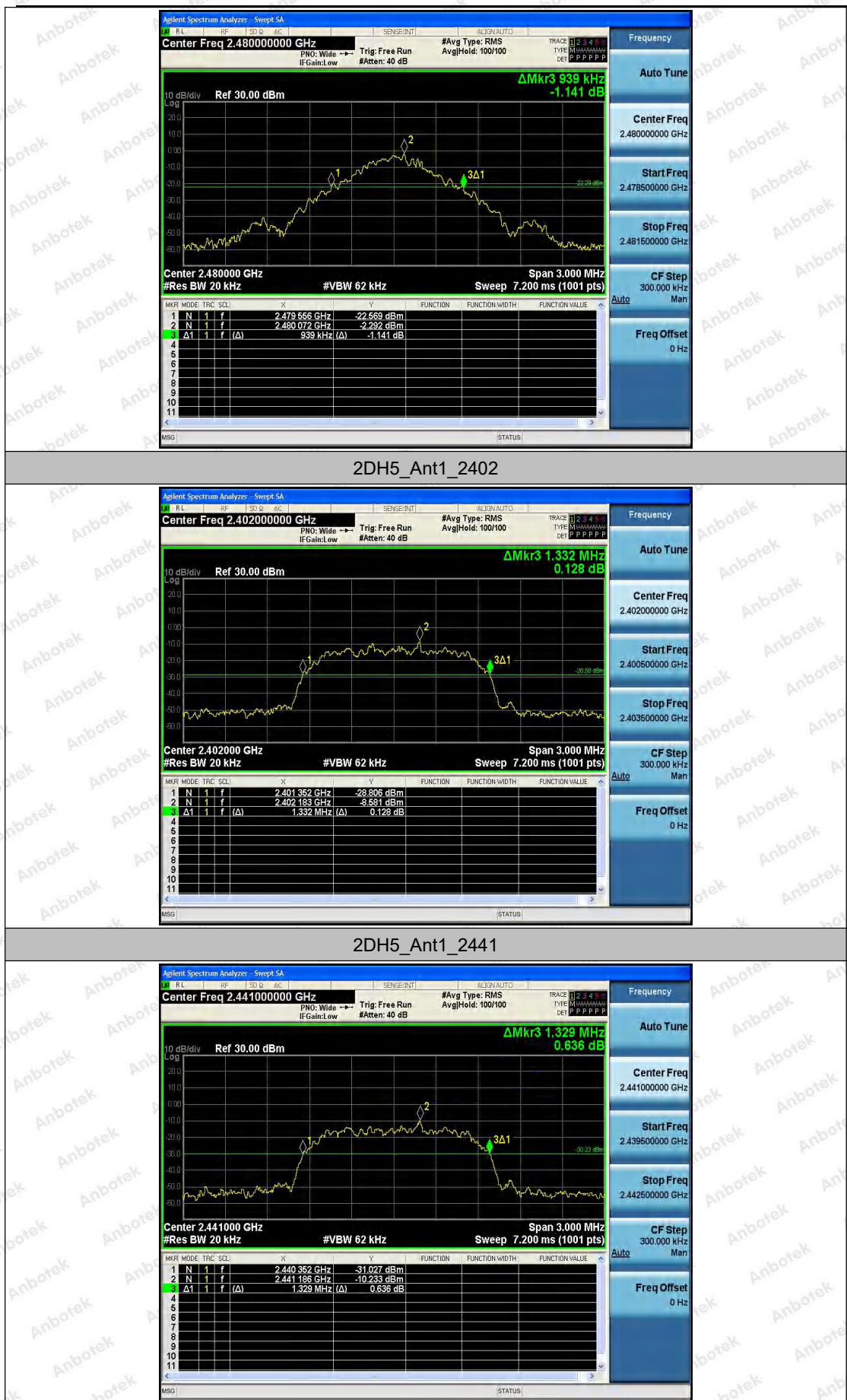
DH5_Ant1_2480

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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86715	2401.579	2402.446	---	PASS
		2441	0.87897	2440.575	2441.454	---	PASS
		2480	0.85626	2479.585	2480.442	---	PASS
2DH5	Ant1	2402	1.1940	2401.421	2402.615	---	PASS
		2441	1.1927	2440.423	2441.615	---	PASS
		2480	1.1928	2479.423	2480.616	---	PASS
3DH5	Ant1	2402	1.2058	2401.408	2402.614	---	PASS
		2441	1.1890	2440.422	2441.611	---	PASS
		2480	1.1993	2479.413	2480.613	---	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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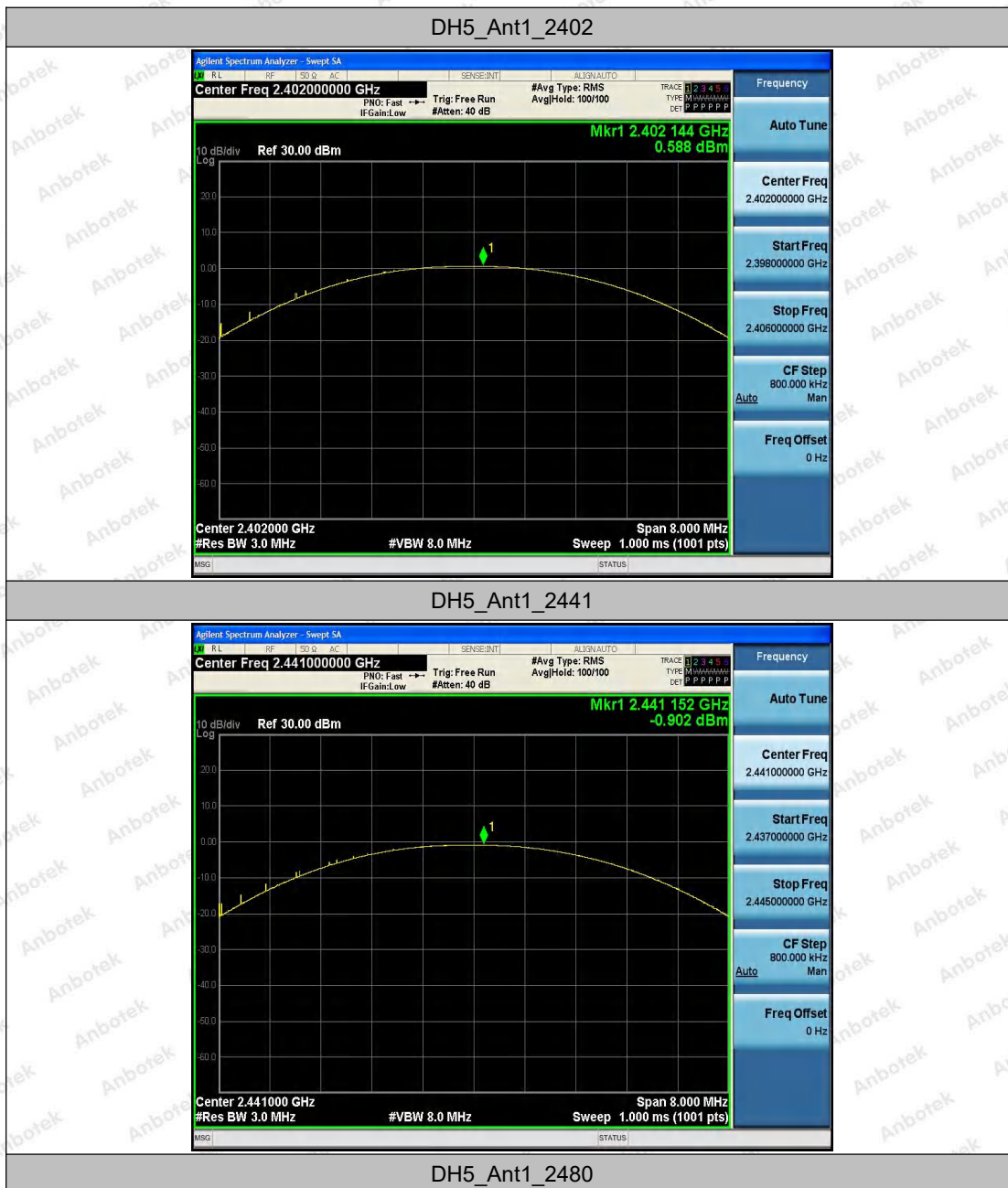
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.59	≤20.97	PASS
		2441	-0.9	≤20.97	PASS
		2480	1.1	≤20.97	PASS
2DH5	Ant1	2402	-1.35	≤20.97	PASS
		2441	-2.91	≤20.97	PASS
		2480	-1.13	≤20.97	PASS
3DH5	Ant1	2402	-0.65	≤20.97	PASS
		2441	-2.23	≤20.97	PASS
		2480	-0.56	≤20.97	PASS

Test Graphs

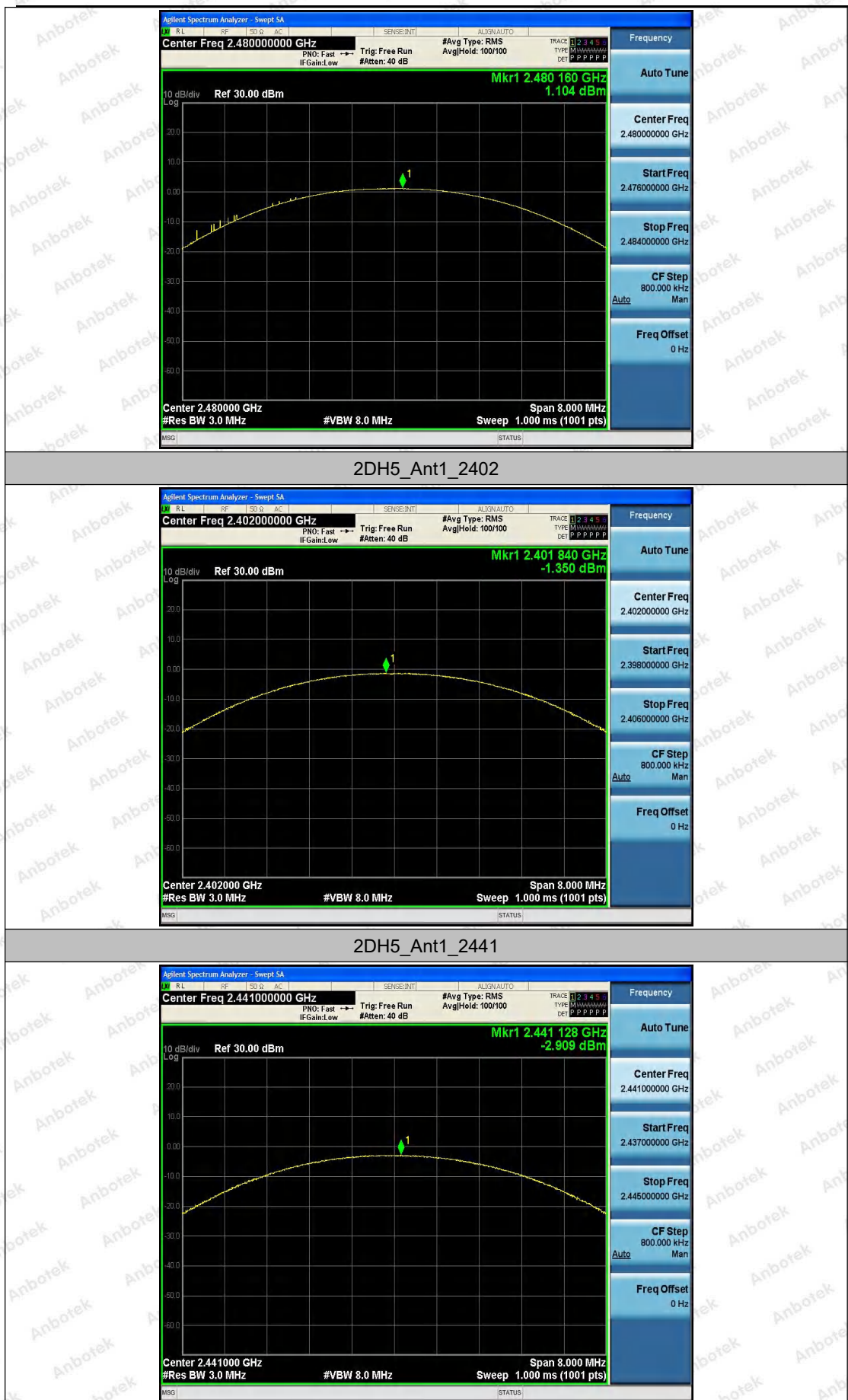


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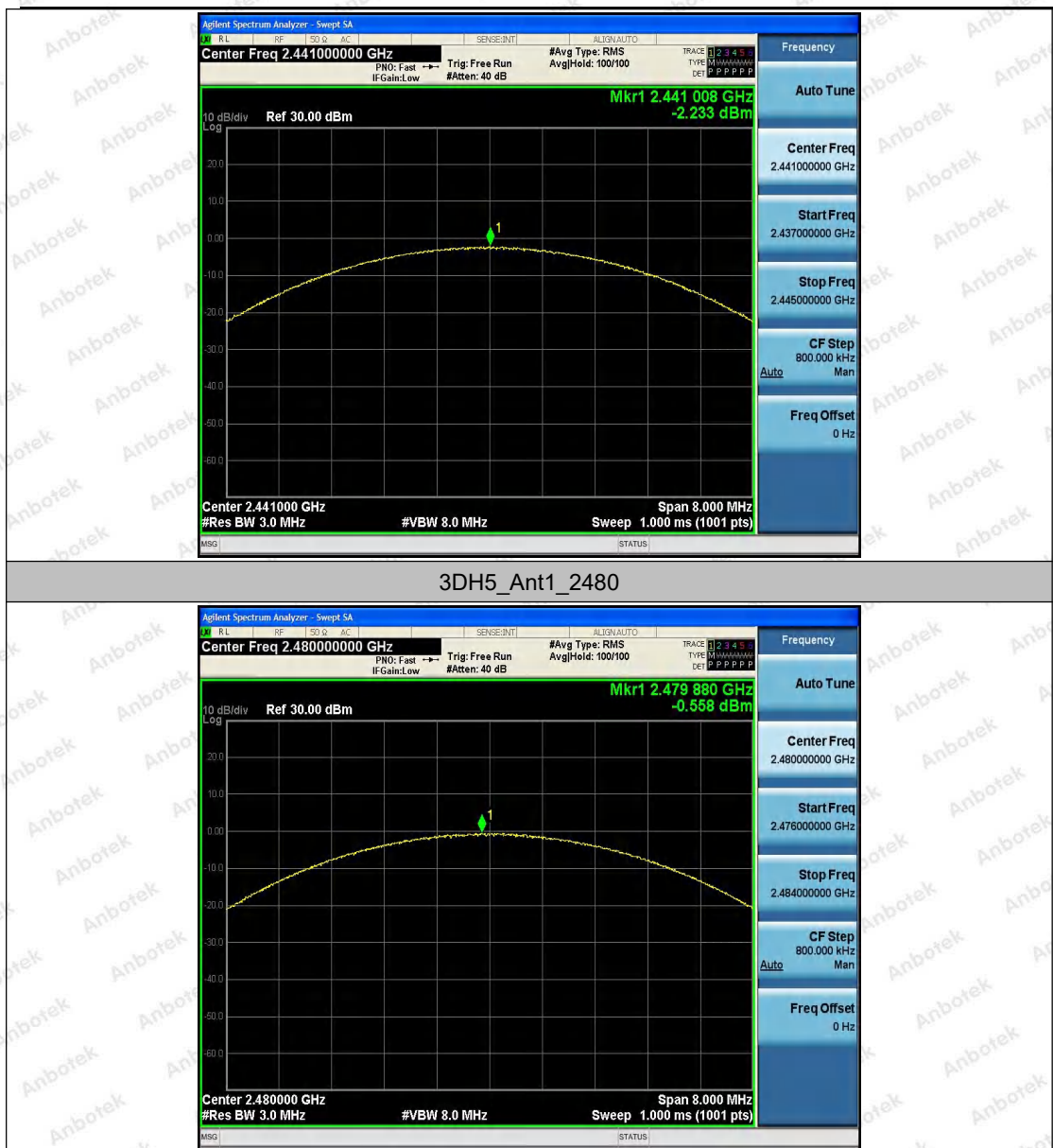
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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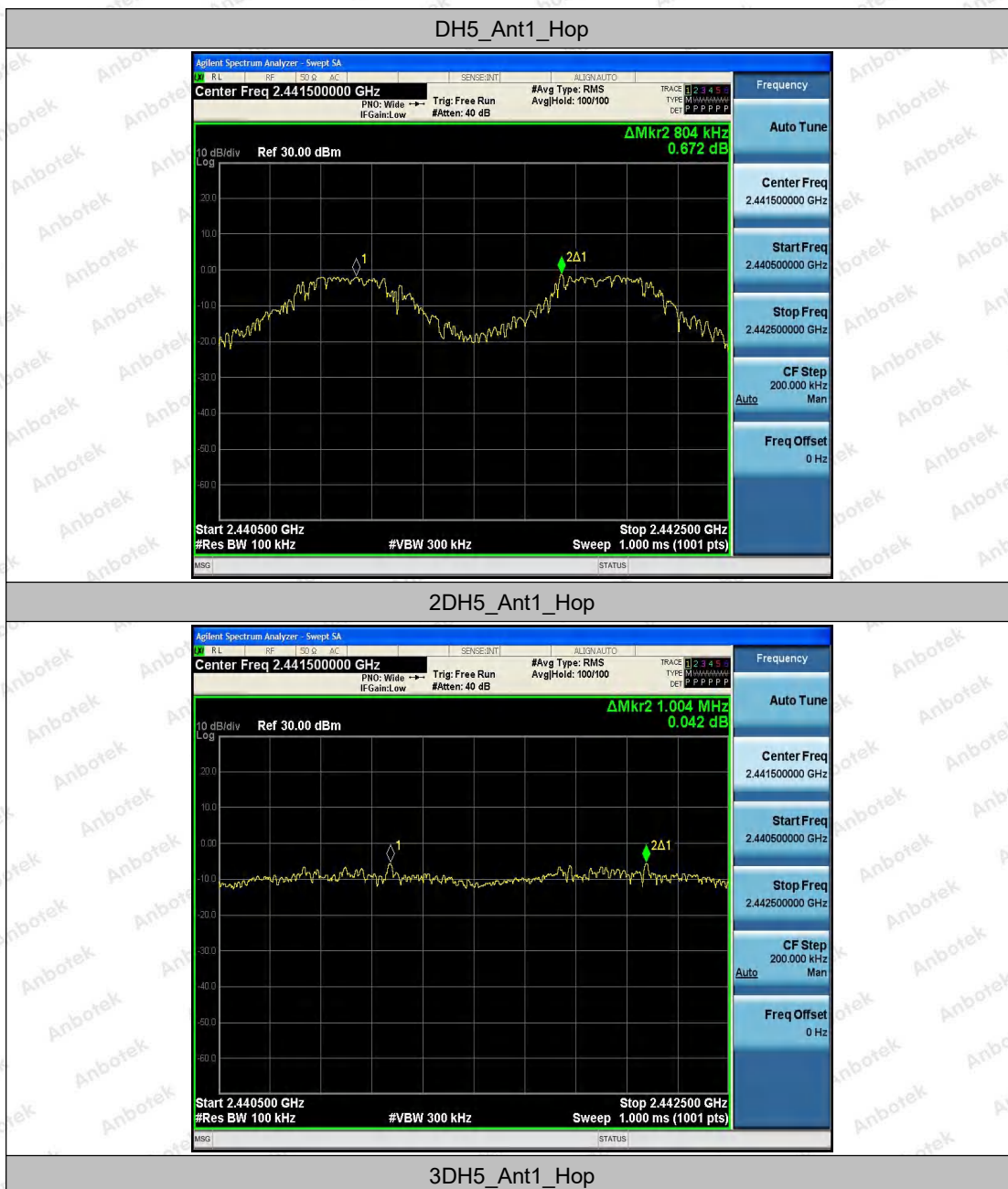
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.804	≥ 0.630	PASS
2DH5	Ant1	Hop	1.004	≥ 0.896	PASS
3DH5	Ant1	Hop	1.026	≥ 0.900	PASS

Test Graphs



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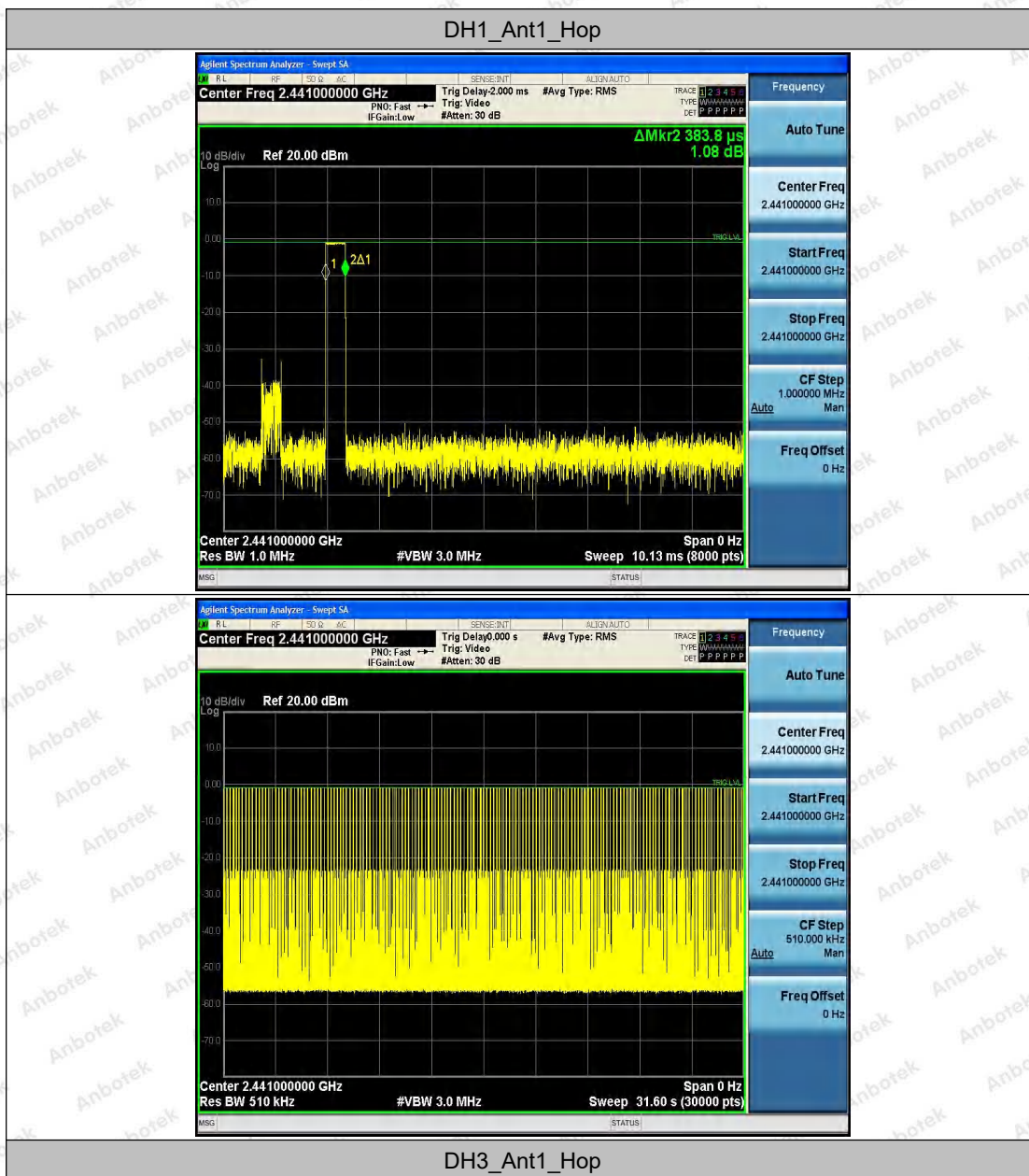
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Appendix E: Time of occupancy

Test Result

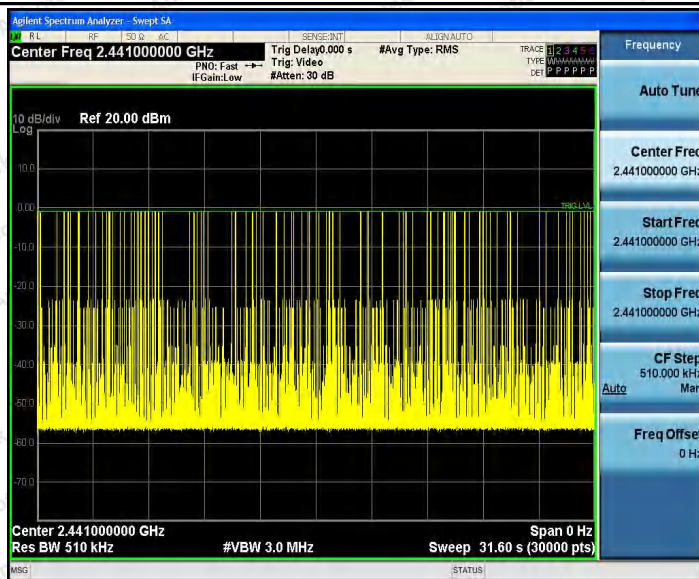
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.64	153	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.89	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.39	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.64	152	0.249	≤0.4	PASS
2DH5	Ant1	Hop	2.89	95	0.274	≤0.4	PASS
3DH1	Ant1	Hop	0.39	319	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.64	165	0.27	≤0.4	PASS
3DH5	Ant1	Hop	2.89	111	0.321	≤0.4	PASS

Test Graphs

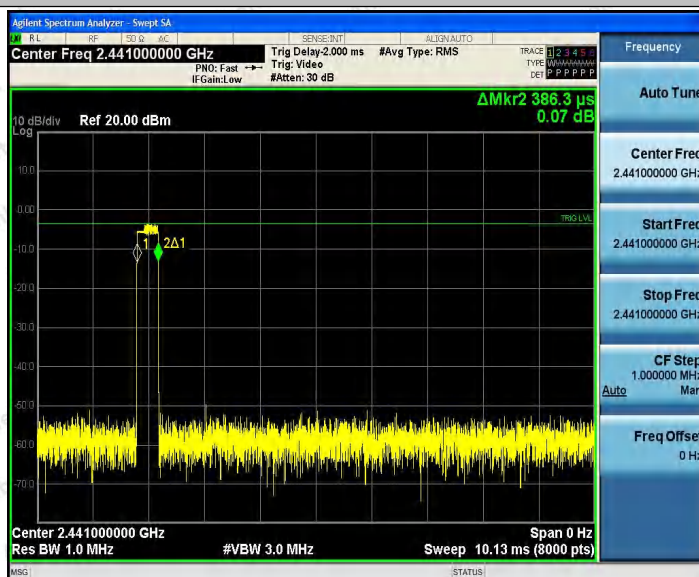




DH5_Ant1_Hop



2DH1_Ant1_Hop



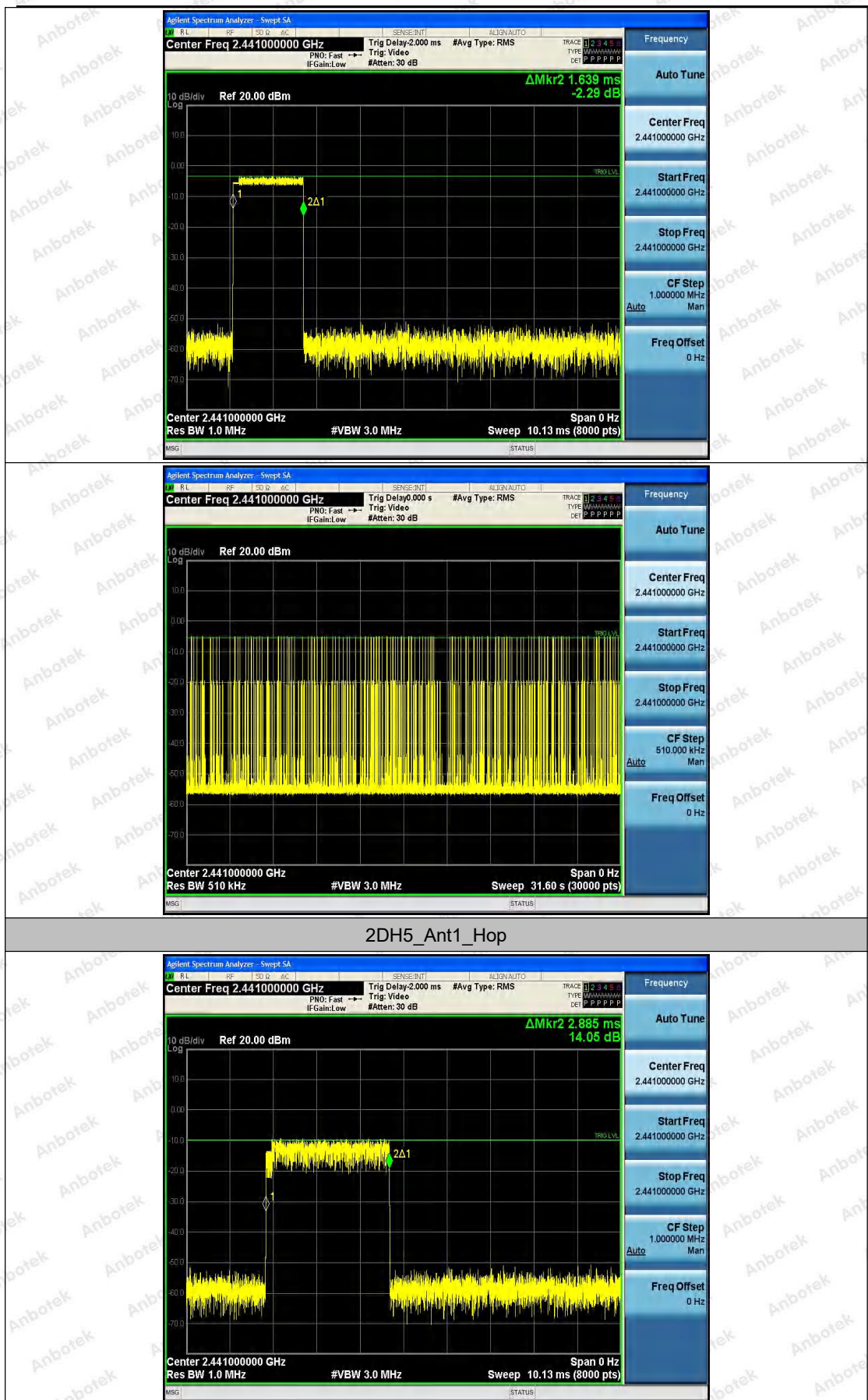
2DH3_Ant1_Hop

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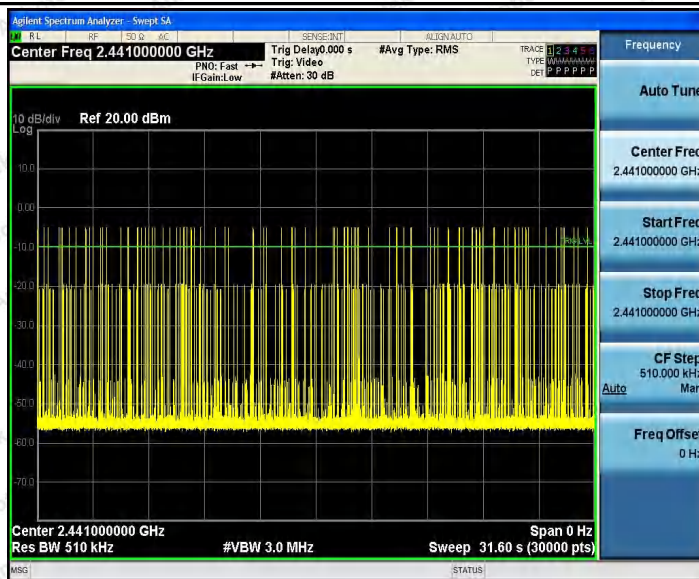


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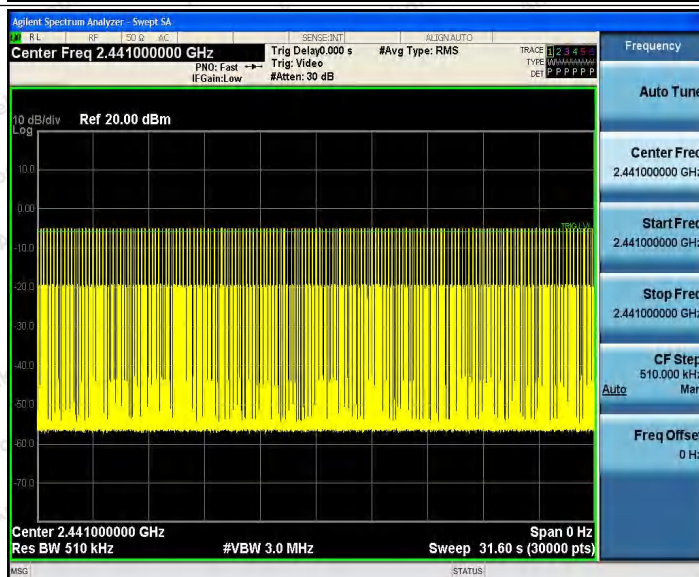
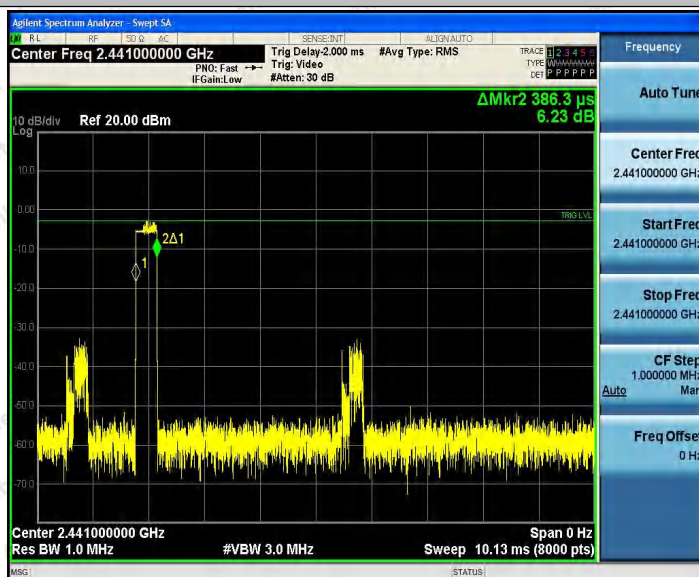
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3DH1_Ant1_Hop



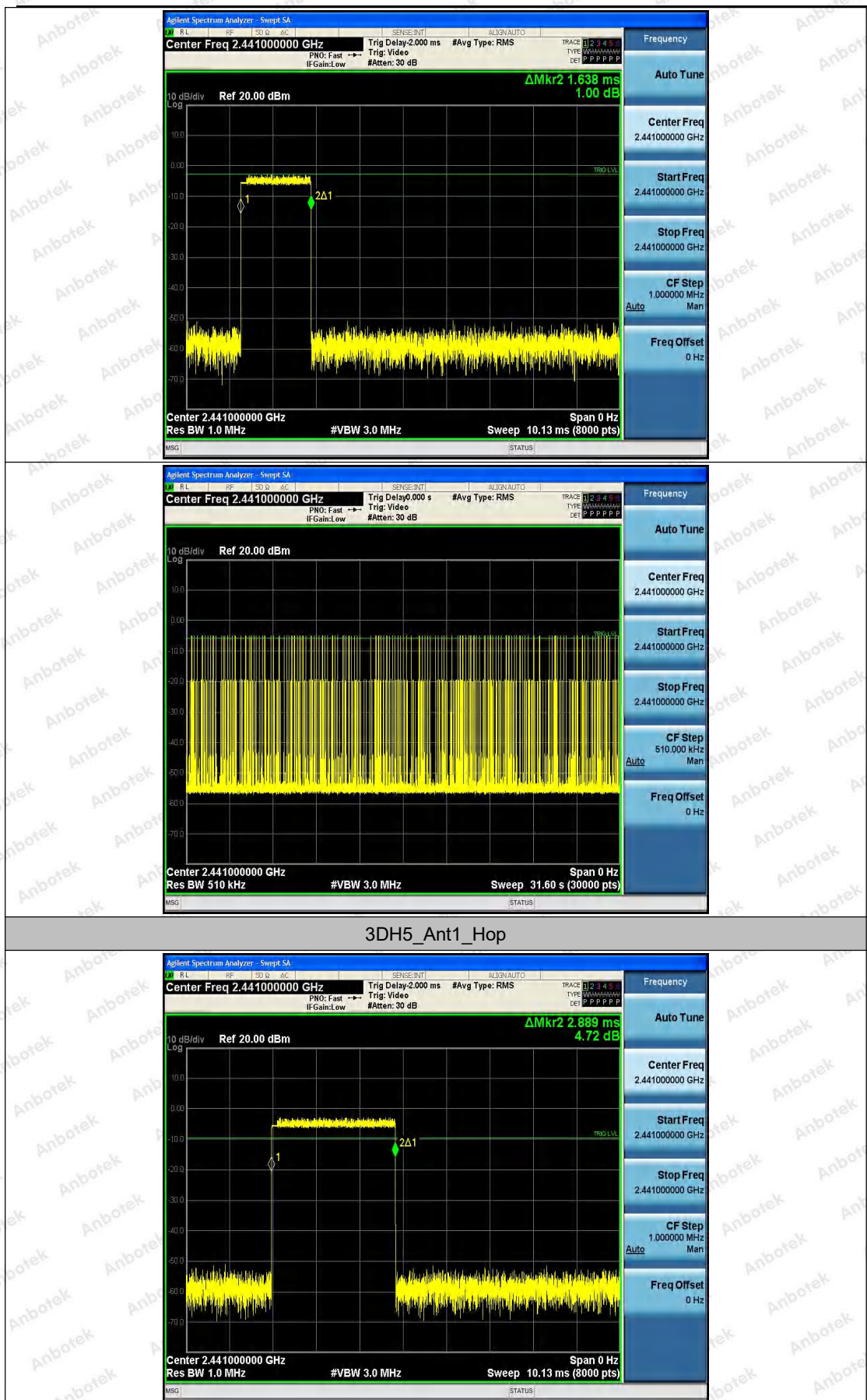
3DH3_Ant1_Hop

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3DH5_Ant1_Hop

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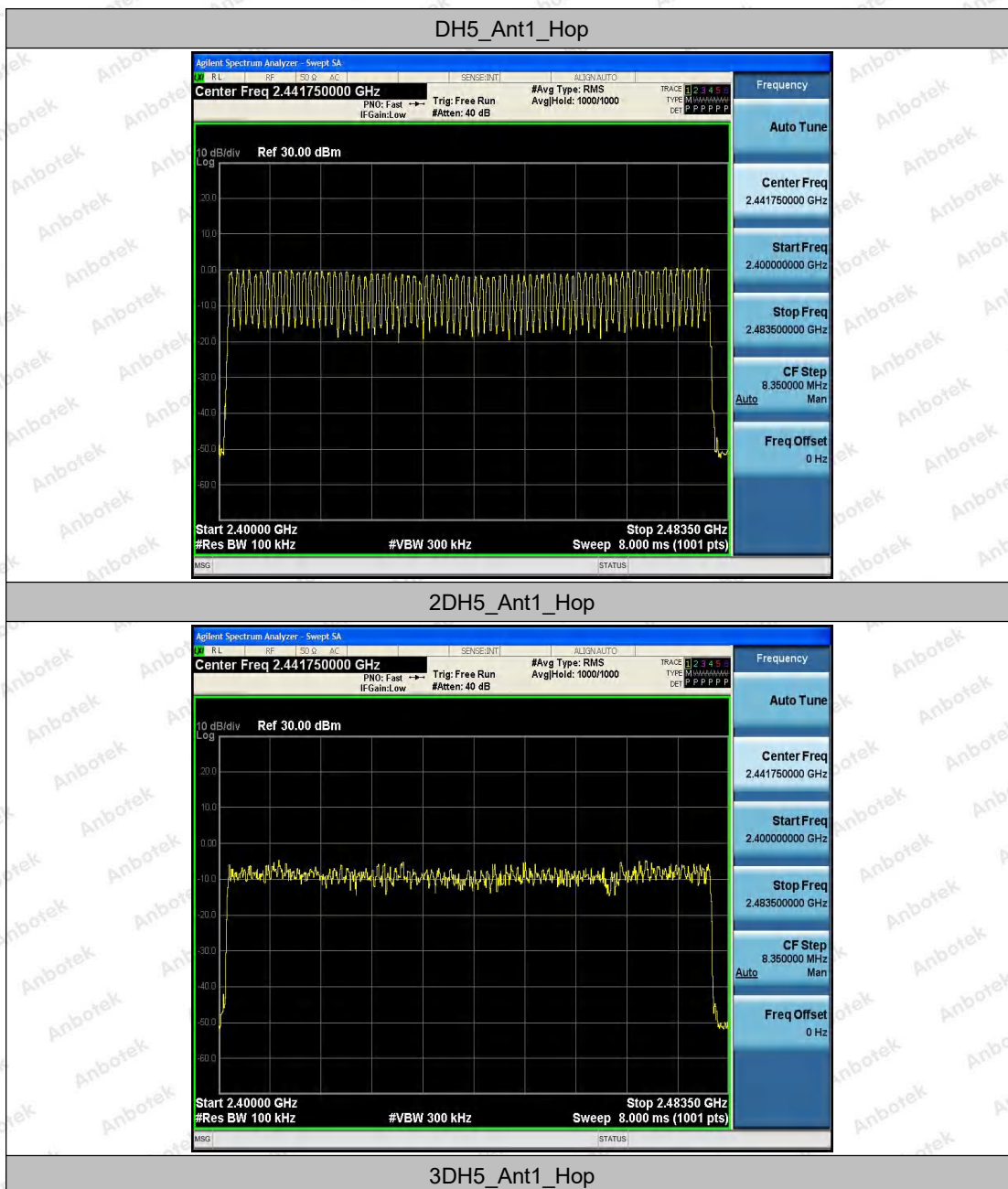
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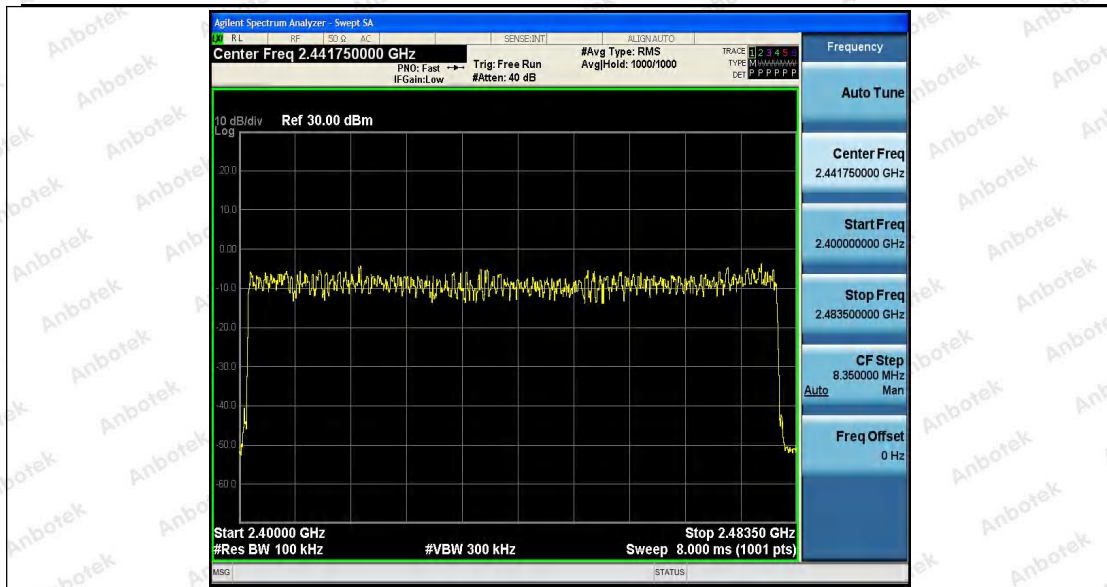
Appendix F: Number of hopping channels

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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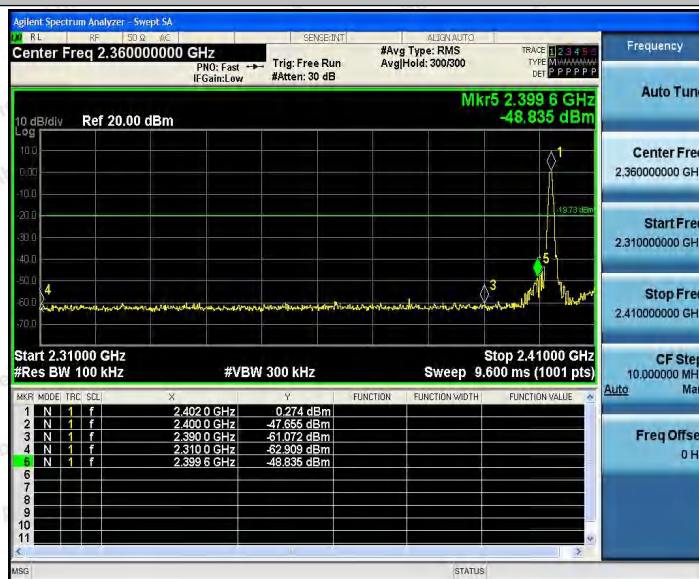
Appendix G: Band edge measurements

Test Result

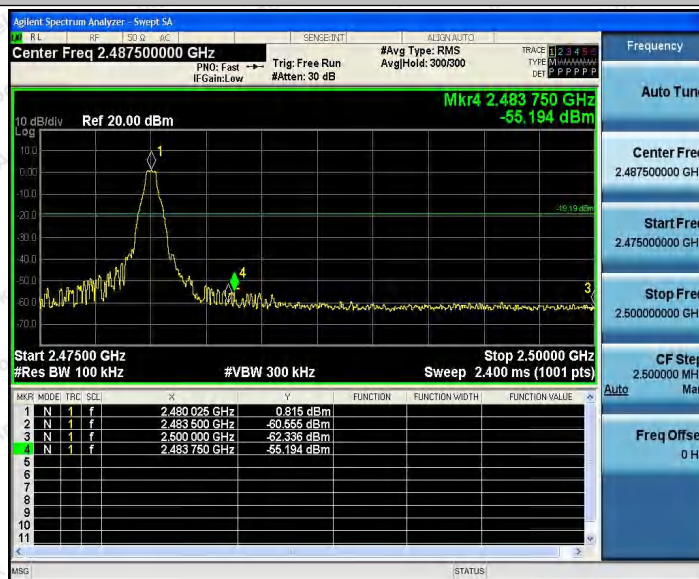
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.27	-48.84	≤ -19.73	PASS
		High	2480	0.82	-55.19	≤ -19.19	PASS
		Low	Hop	0.37	-59.21	≤ -19.63	PASS
		High	Hop	0.61	-62.67	≤ -19.39	PASS
2DH5	Ant1	Low	2402	-4.46	-53.98	≤ -24.46	PASS
		High	2480	-4.39	-59.03	≤ -24.39	PASS
		Low	Hop	-3.86	-59.05	≤ -23.86	PASS
		High	Hop	-5.82	-61.43	≤ -25.82	PASS
3DH5	Ant1	Low	2402	-5.17	-53.2	≤ -25.17	PASS
		High	2480	-4.54	-59.12	≤ -24.54	PASS
		Low	Hop	-5.66	-59.71	≤ -25.66	PASS
		High	Hop	-5.85	-62.29	≤ -25.85	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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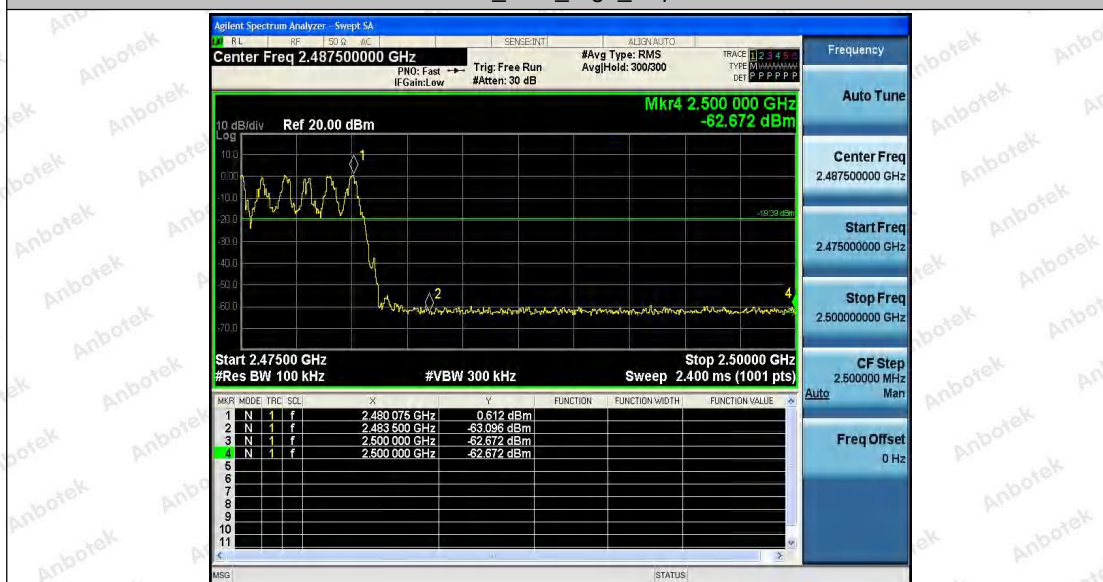
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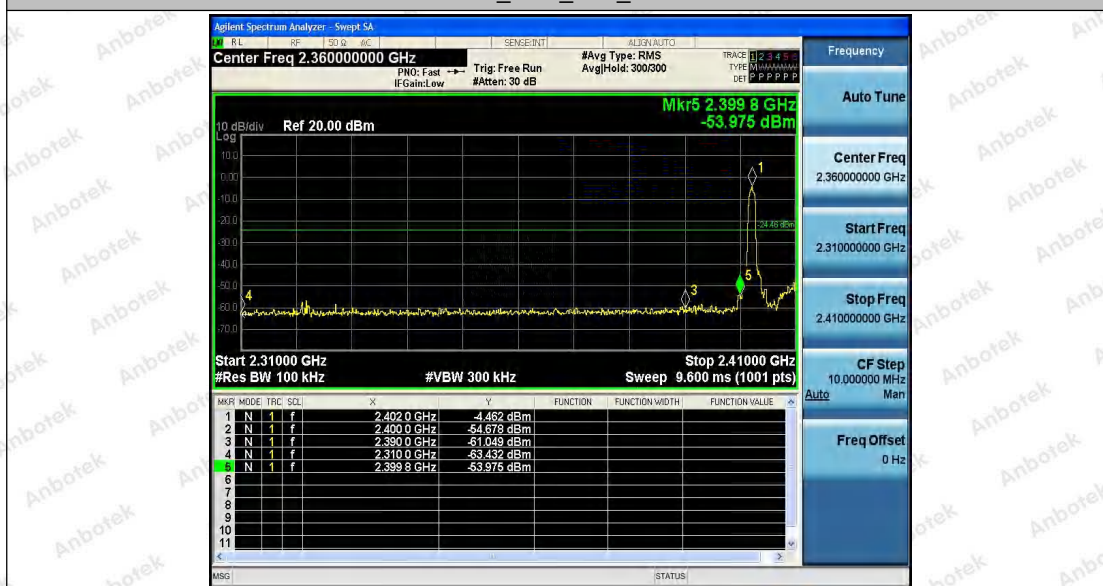
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



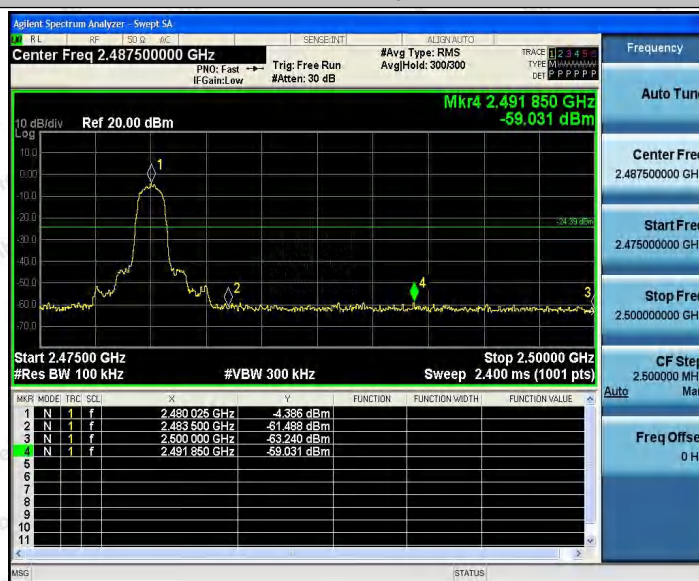
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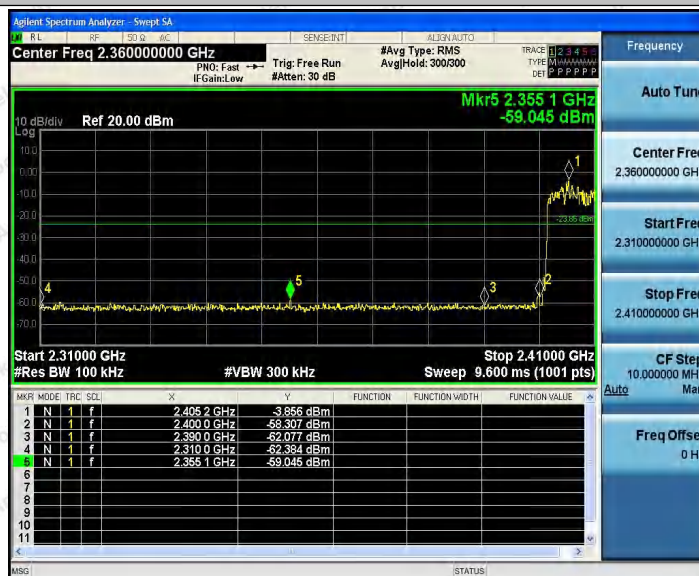
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



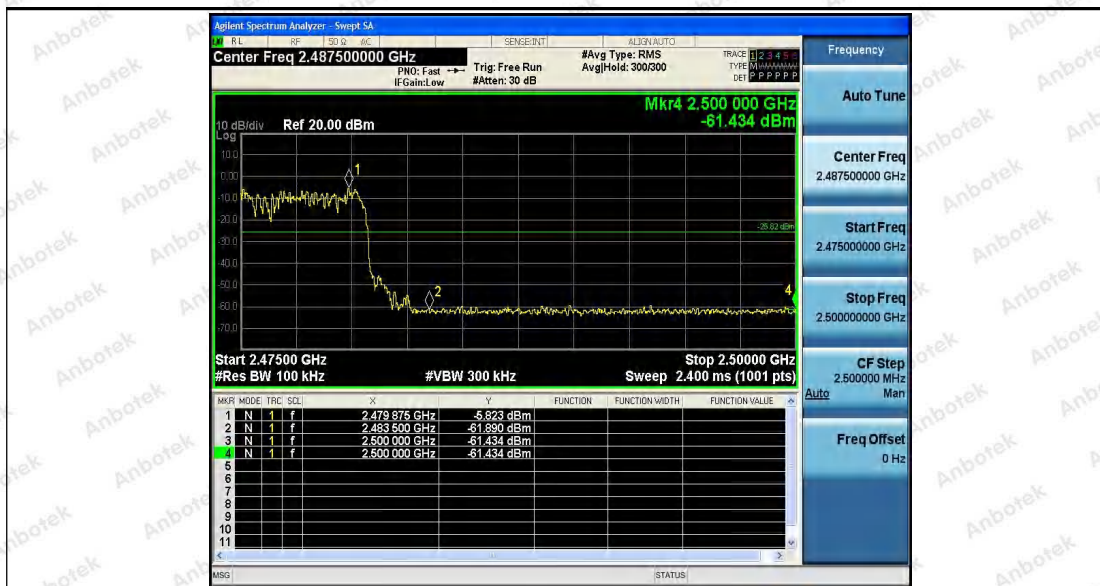
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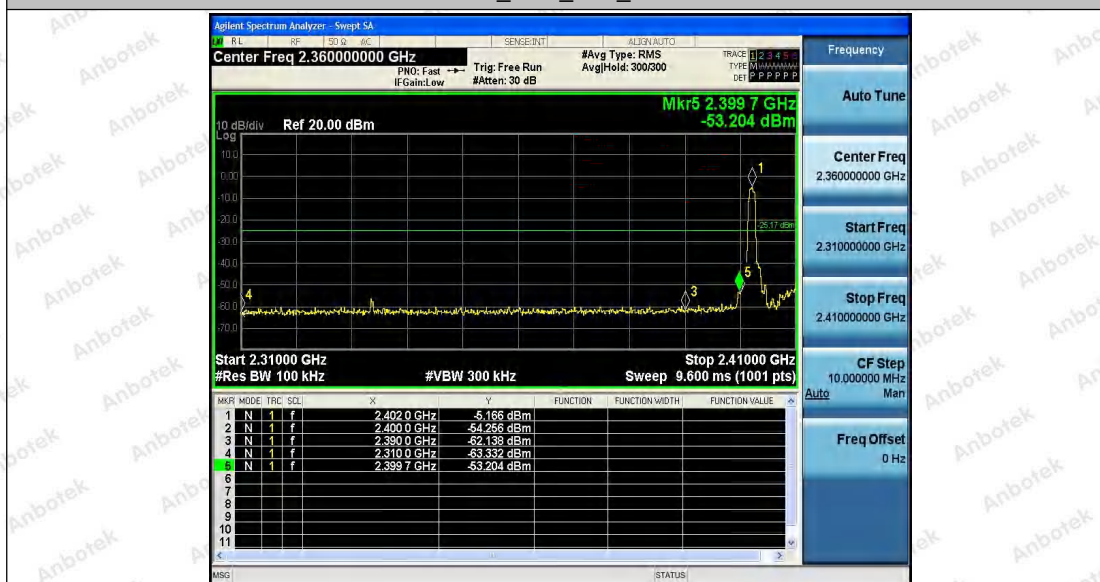
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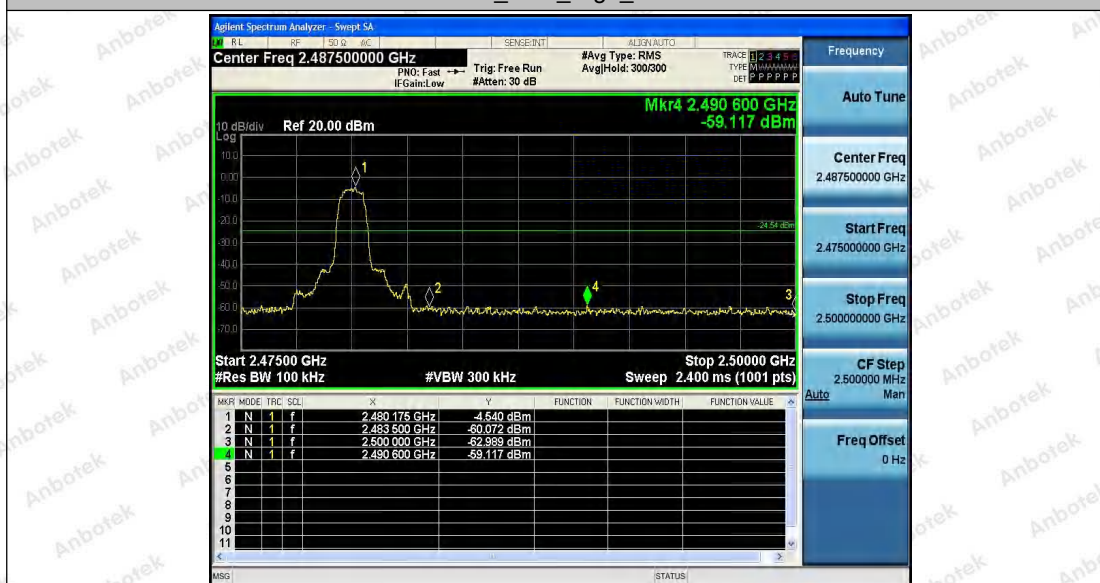
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

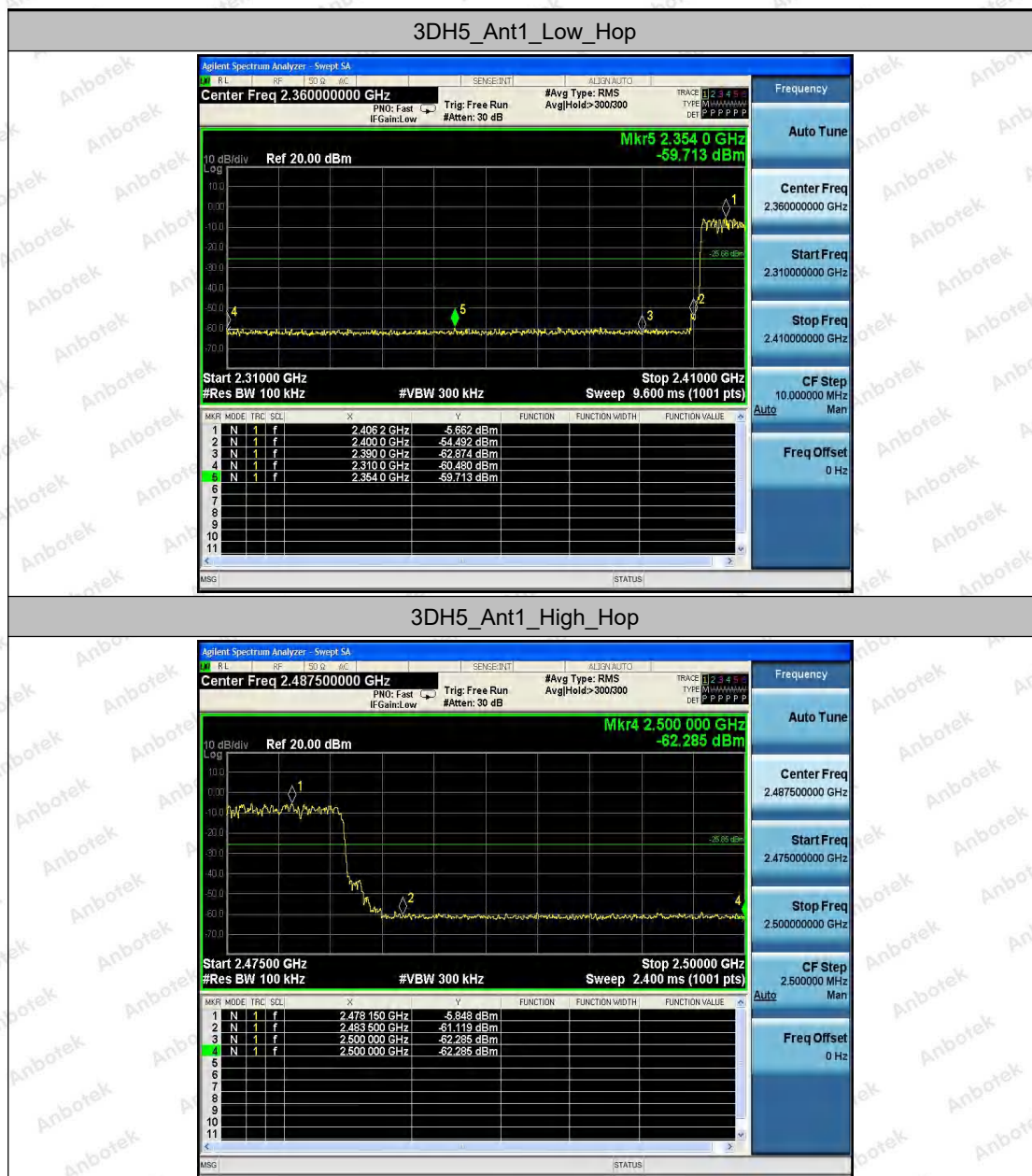


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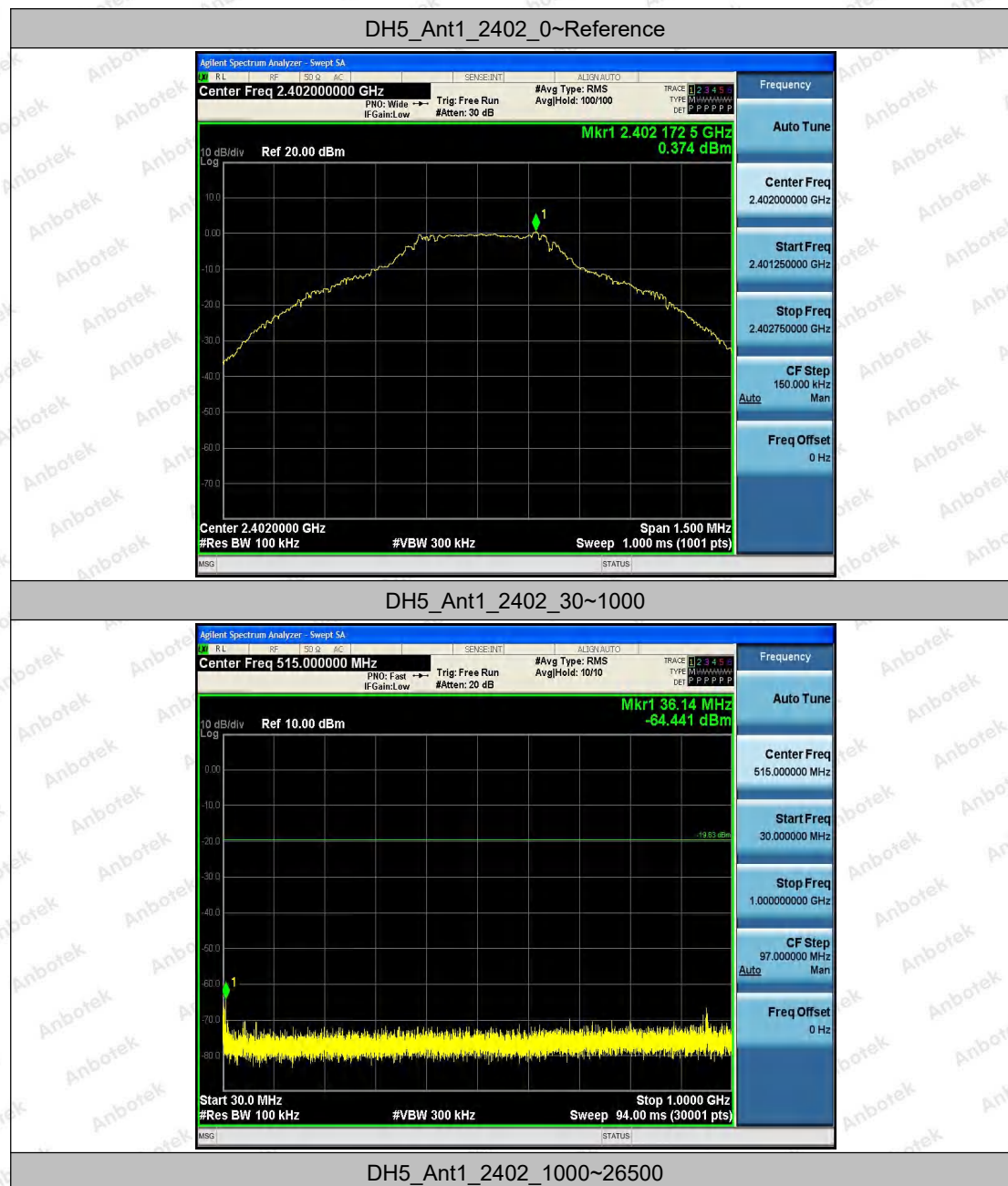
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.37	0.37	---	PASS
			30~1000	0.37	-64.44	≤-19.63	PASS
			1000~26500	0.37	-42.87	≤-19.63	PASS
		2441	Reference	-1.63	-1.63	---	PASS
			30~1000	-1.63	-55.04	≤-21.63	PASS
			1000~26500	-1.63	-43.05	≤-21.63	PASS
		2480	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-63.74	≤-19.26	PASS
			1000~26500	0.74	-43.26	≤-19.26	PASS
2DH5	Ant1	2402	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-63.96	≤-24.34	PASS
			1000~26500	-4.34	-45.83	≤-24.34	PASS
		2441	Reference	-6.01	-6.01	---	PASS
			30~1000	-6.01	-65.02	≤-26.01	PASS
			1000~26500	-6.01	-41.67	≤-26.01	PASS
		2480	Reference	-4.38	-4.38	---	PASS
			30~1000	-4.38	-66.09	≤-24.38	PASS
			1000~26500	-4.38	-43.49	≤-24.38	PASS
3DH5	Ant1	2402	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-64.9	≤-24.26	PASS
			1000~26500	-4.26	-45.07	≤-24.26	PASS
		2441	Reference	-5.90	-5.90	---	PASS
			30~1000	-5.90	-58.75	≤-25.9	PASS
			1000~26500	-5.90	-43.01	≤-25.9	PASS
		2480	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-57.85	≤-24.24	PASS
			1000~26500	-4.24	-42.3	≤-24.24	PASS

Test Graphs

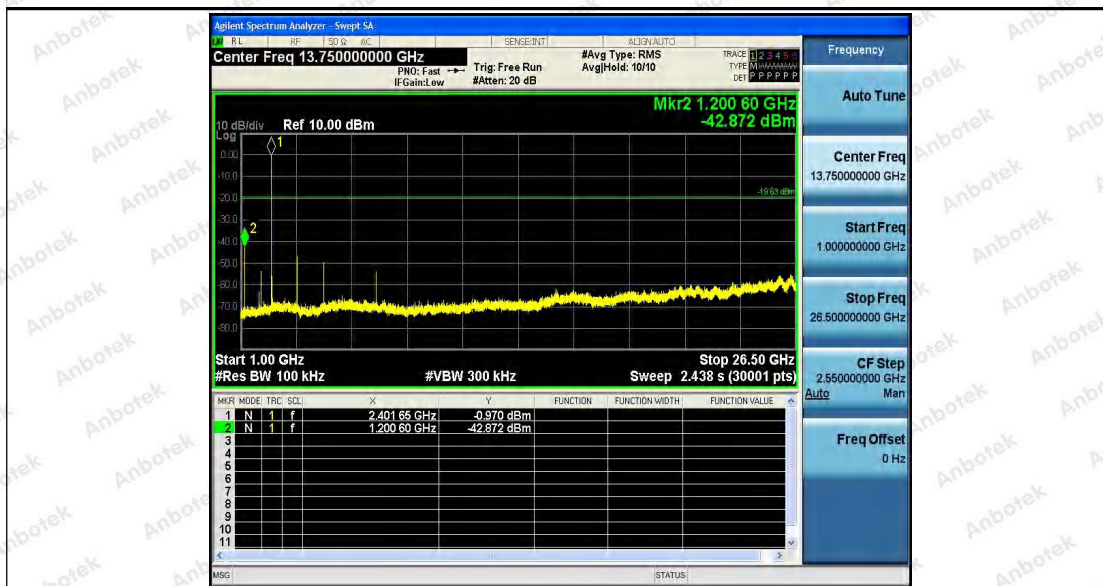


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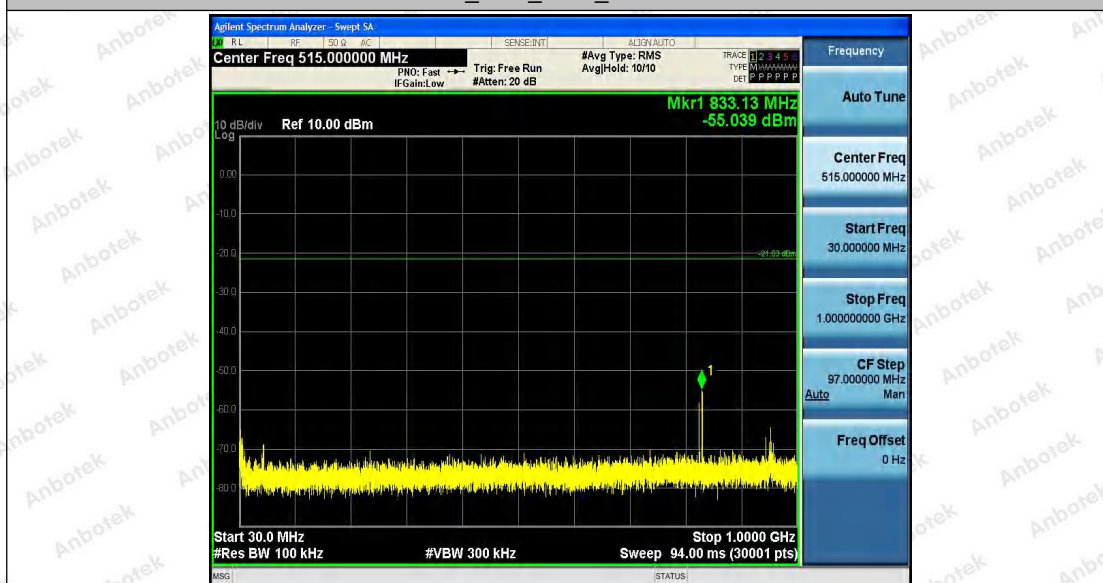
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



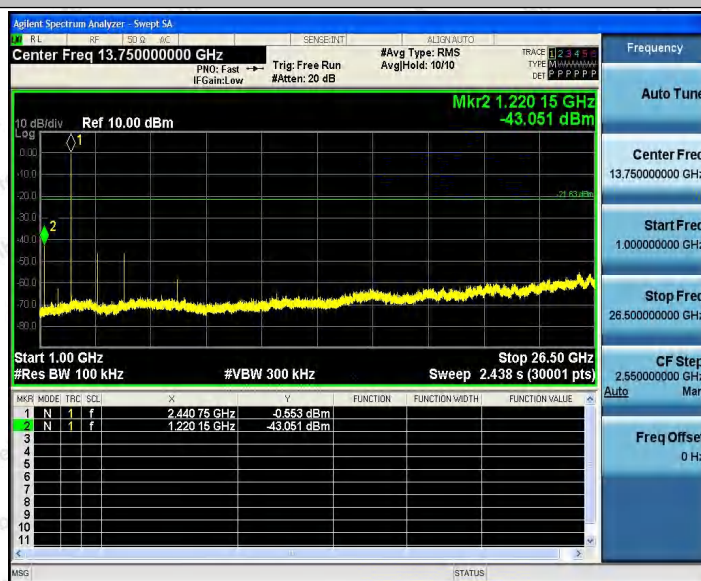
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



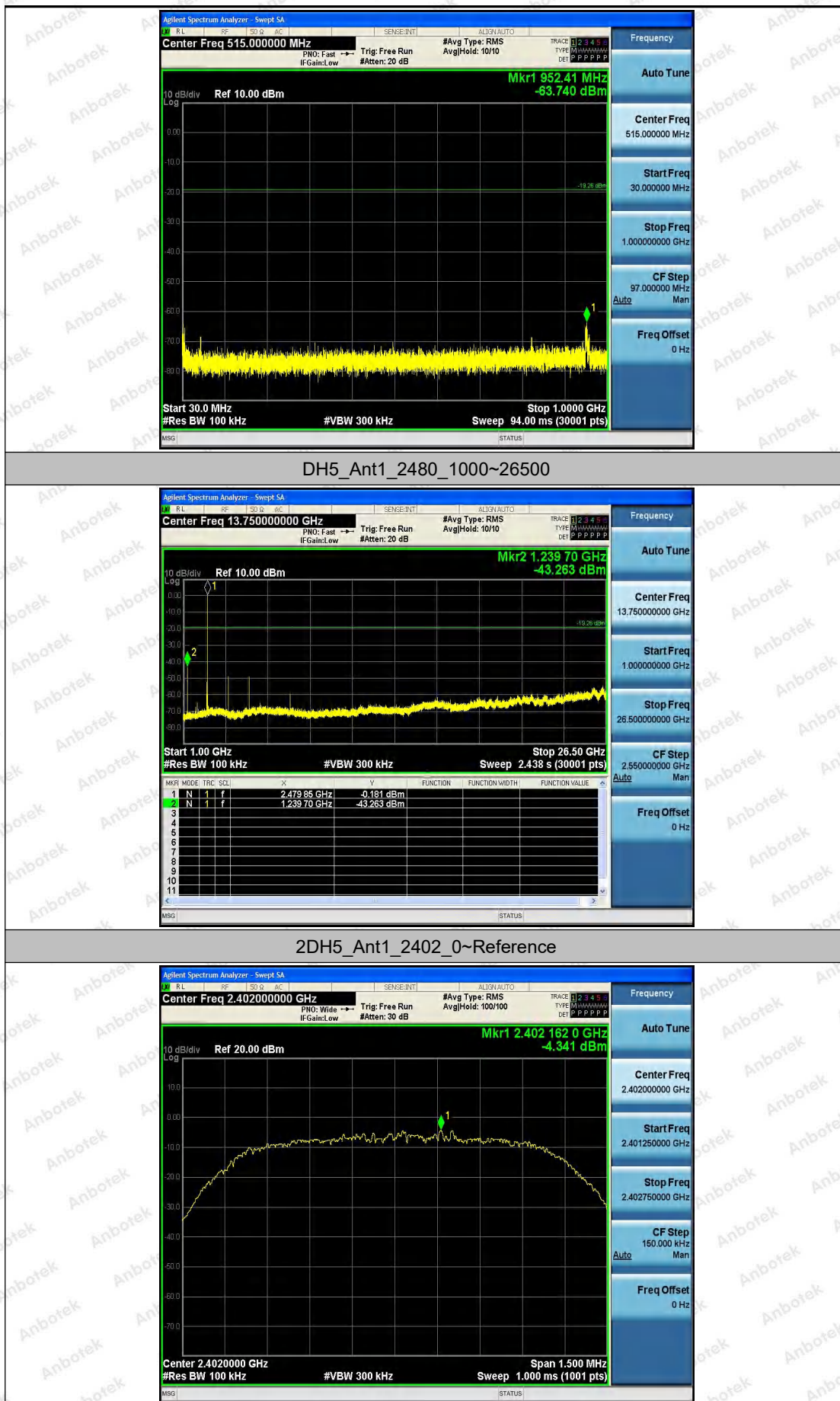
DH5_Ant1_2480_30~1000

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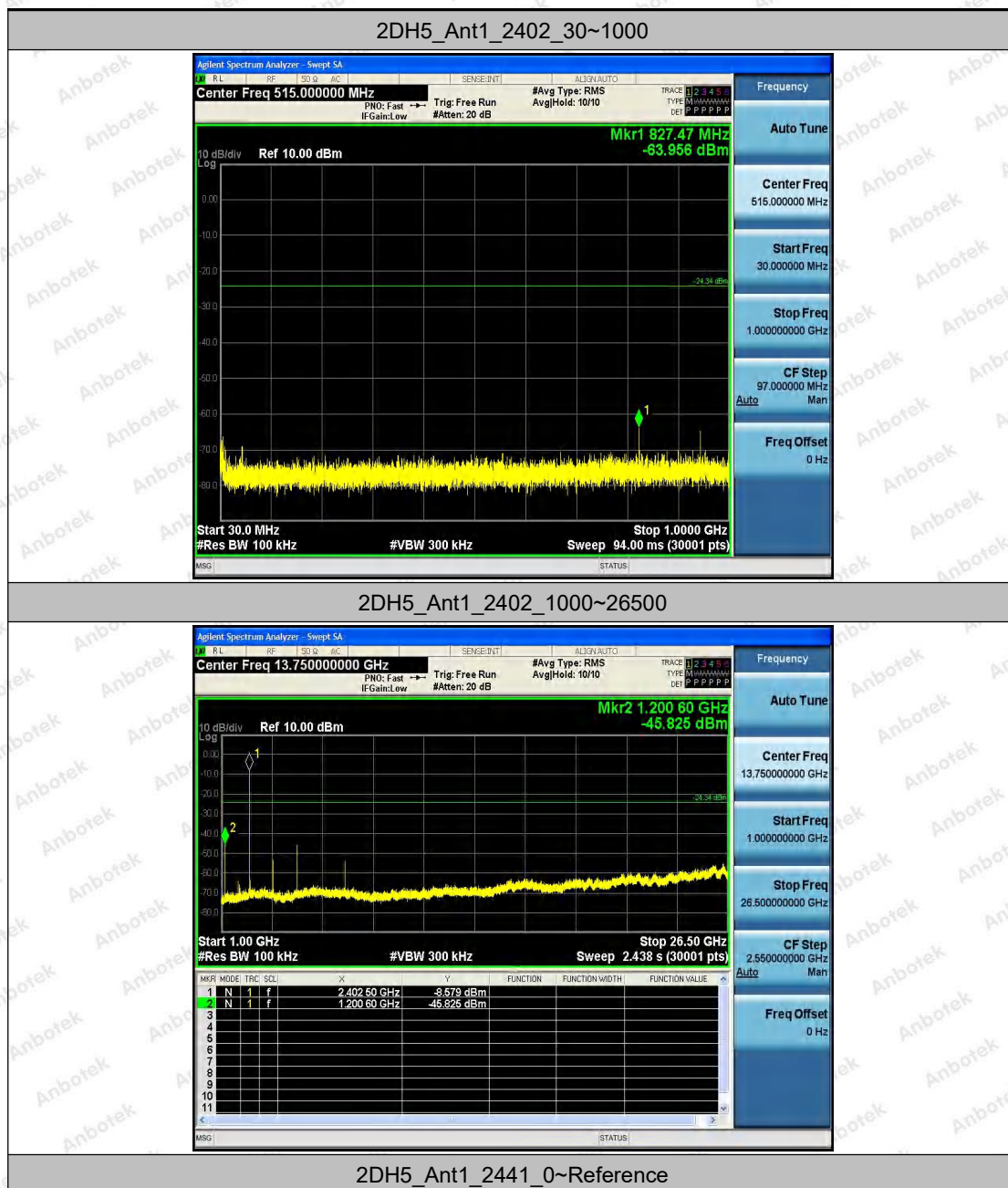


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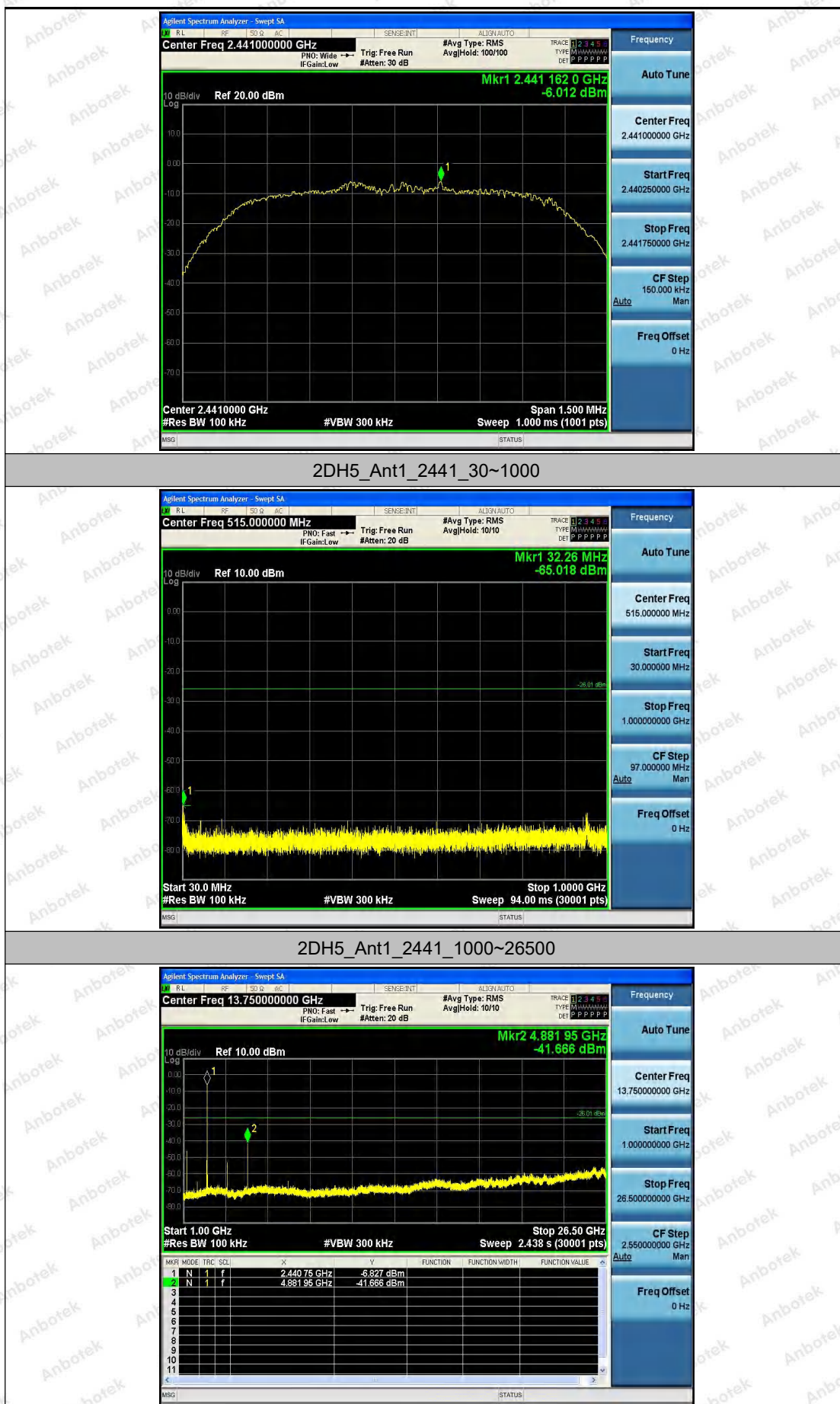


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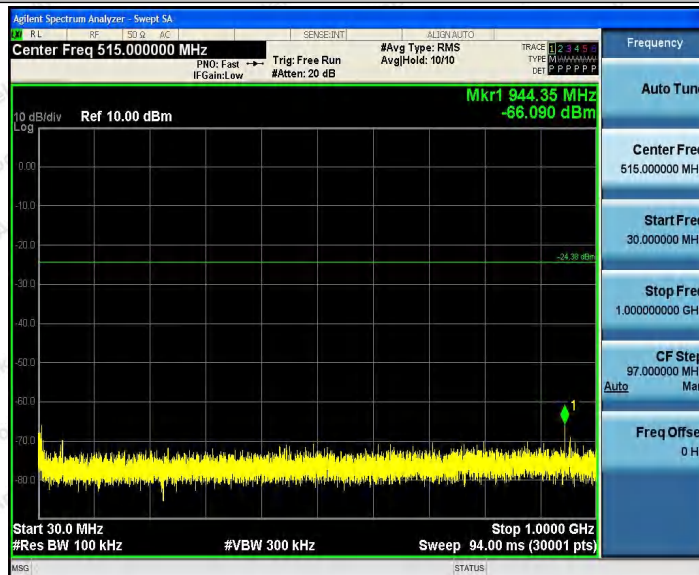
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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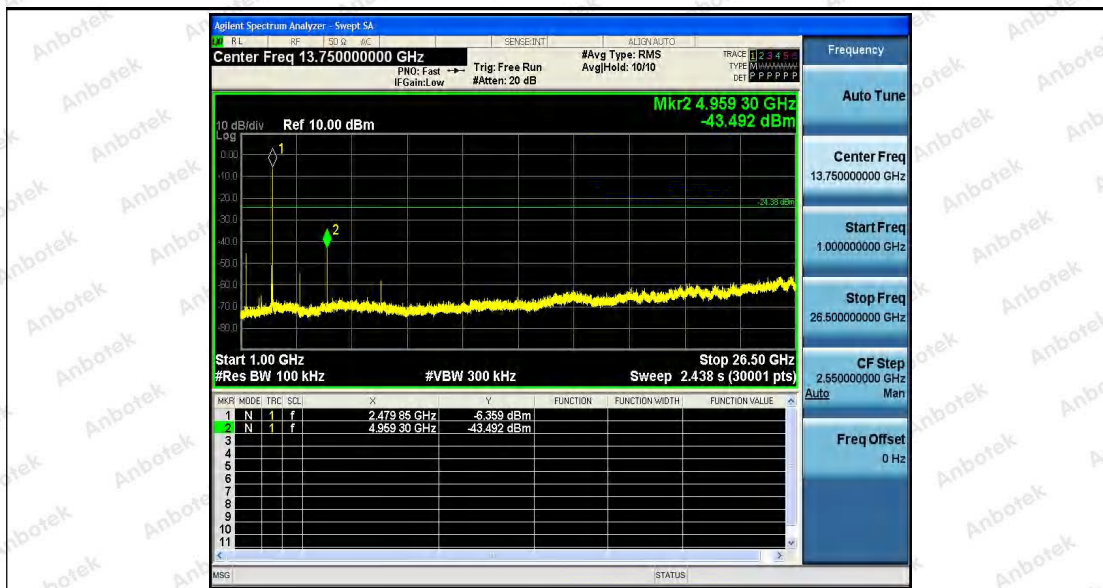
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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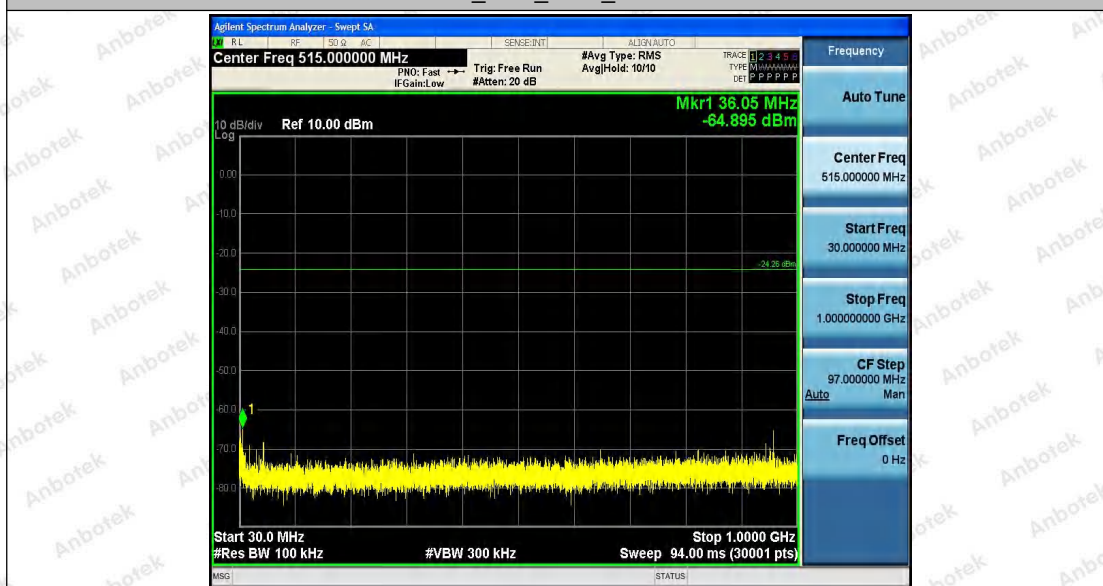
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



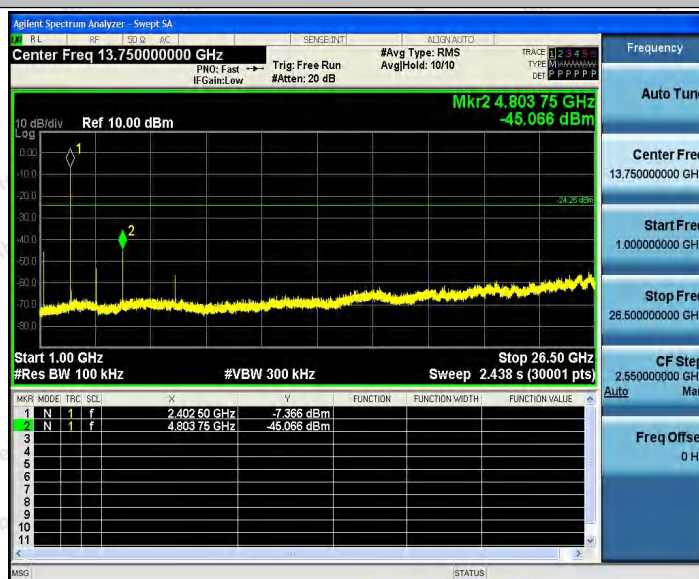
Shenzhen Anbotech Compliance Laboratory Limited

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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



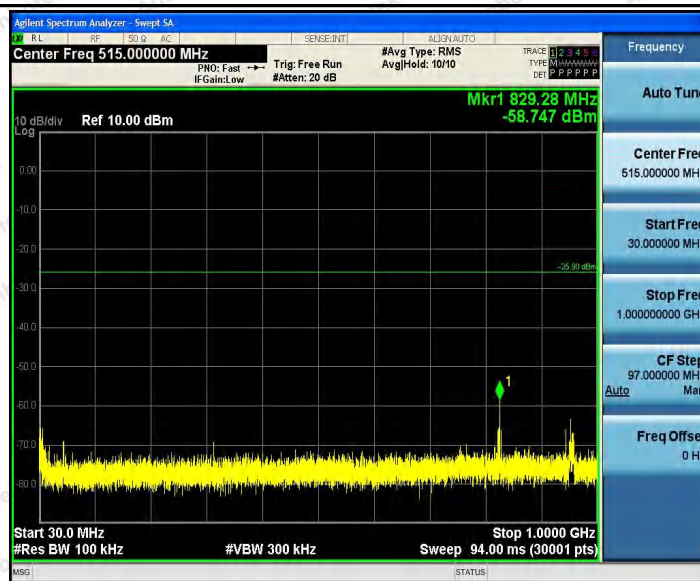
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Shenzhen Anbotek Compliance Laboratory Limited

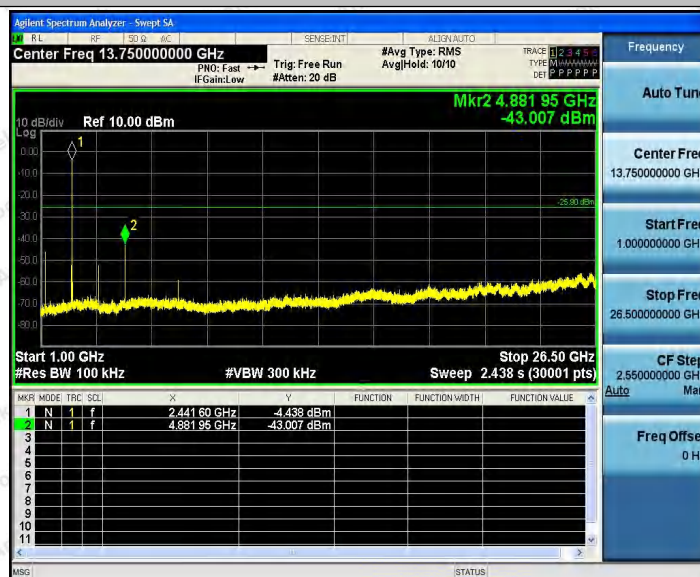
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5 Ant1 2441 1000~26500



3DH5 Ant1 2480 0~Reference



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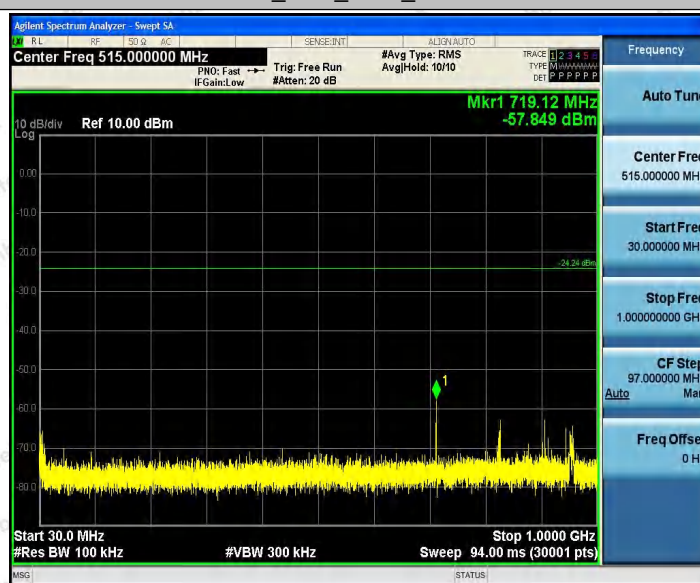
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



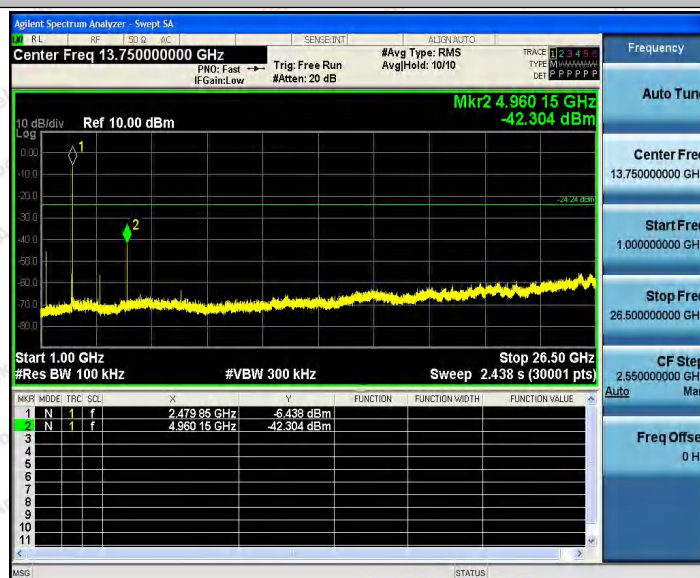
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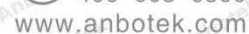
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3DH5 Ant1 2480 1000~26500



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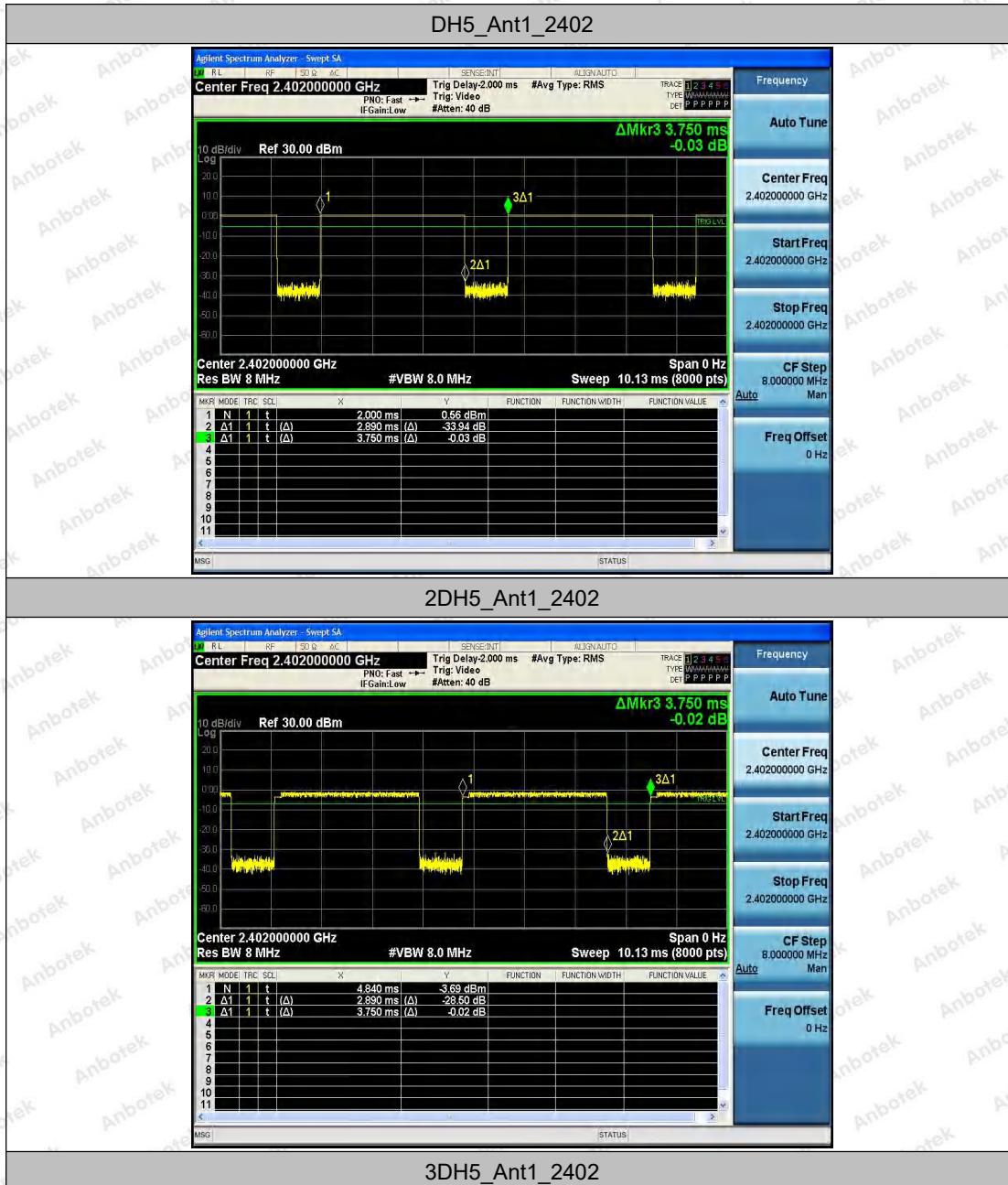


Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs



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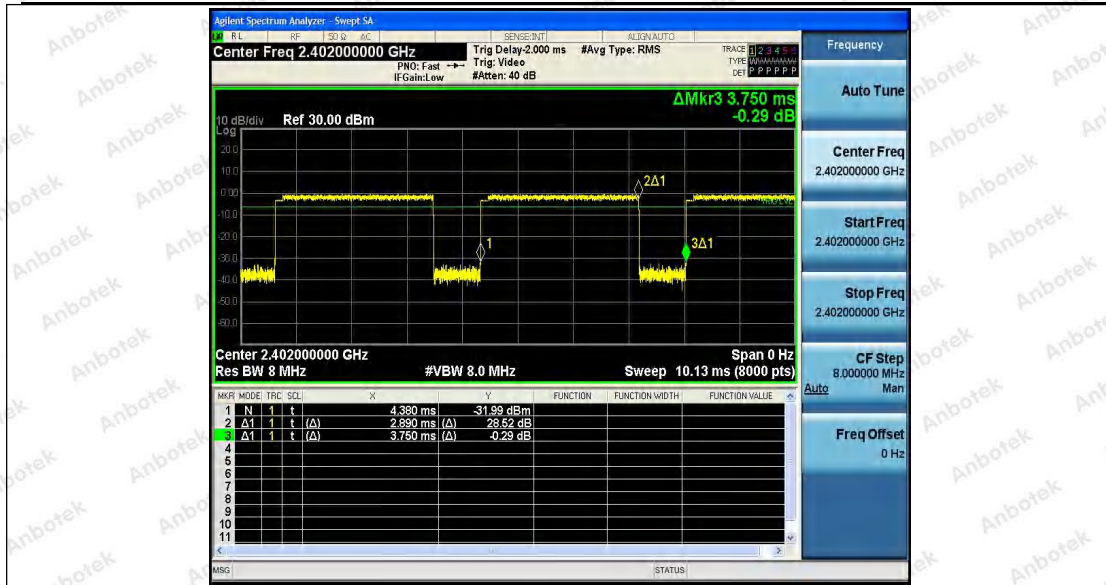
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