

Appendix Test Data

Report No.:	18220WC20136001	Test Sample No.:	1-2-2
Start Test Date:	2022.6.25	Finish Test Date:	2022.7.4
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3℃	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	0.882	2401.580	2402.462	---	PASS
		2441	0.882	2440.577	2441.459	---	PASS
		2480	0.885	2479.577	2480.462	---	PASS
2DH5	Ant1	2402	1.317	2401.373	2402.690	---	PASS
		2441	1.314	2440.376	2441.690	---	PASS
		2480	1.335	2479.370	2480.705	---	PASS
3DH5	Ant1	2402	1.287	2401.388	2402.675	---	PASS
		2441	1.269	2440.388	2441.657	---	PASS
		2480	1.311	2479.382	2480.693	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

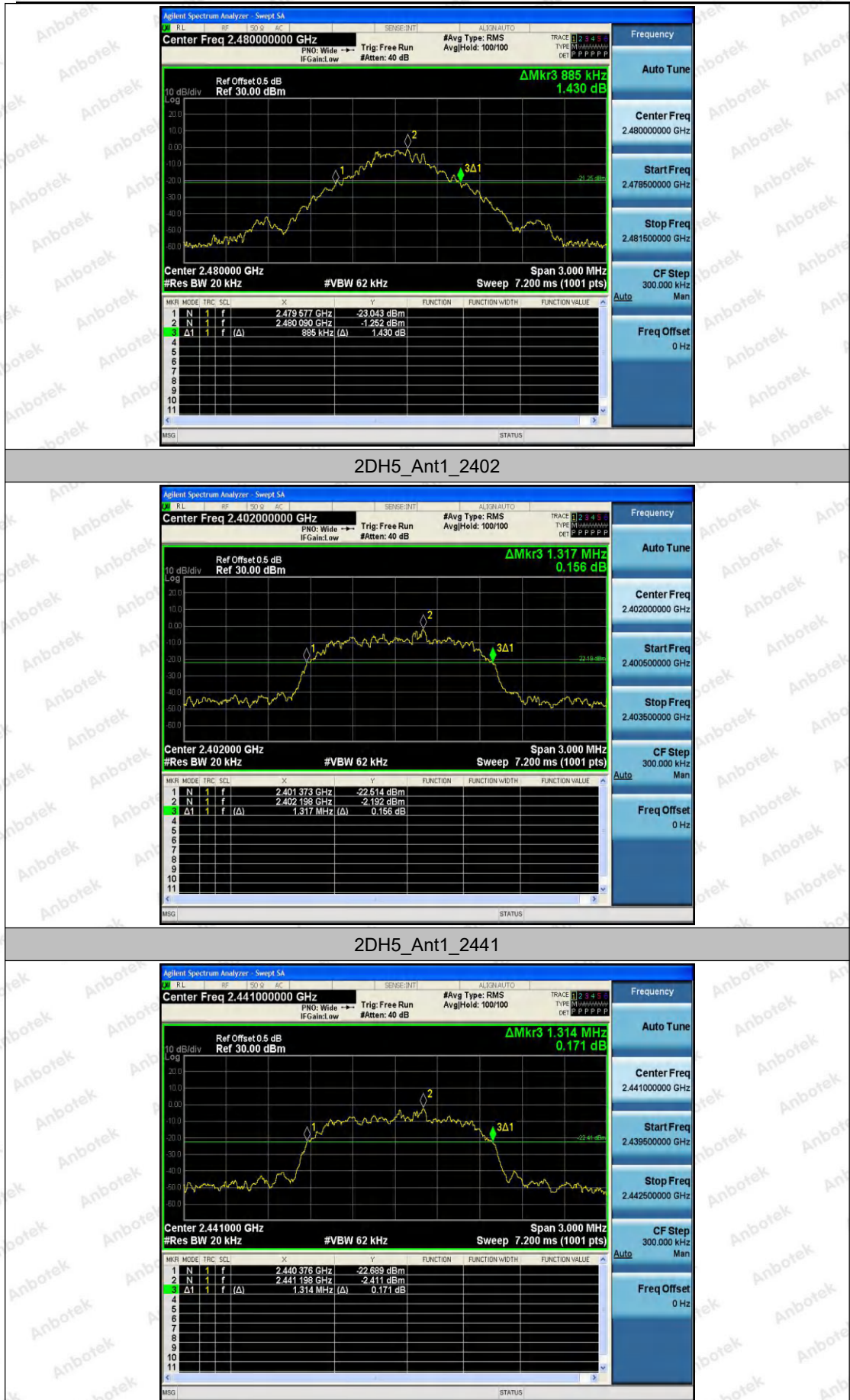
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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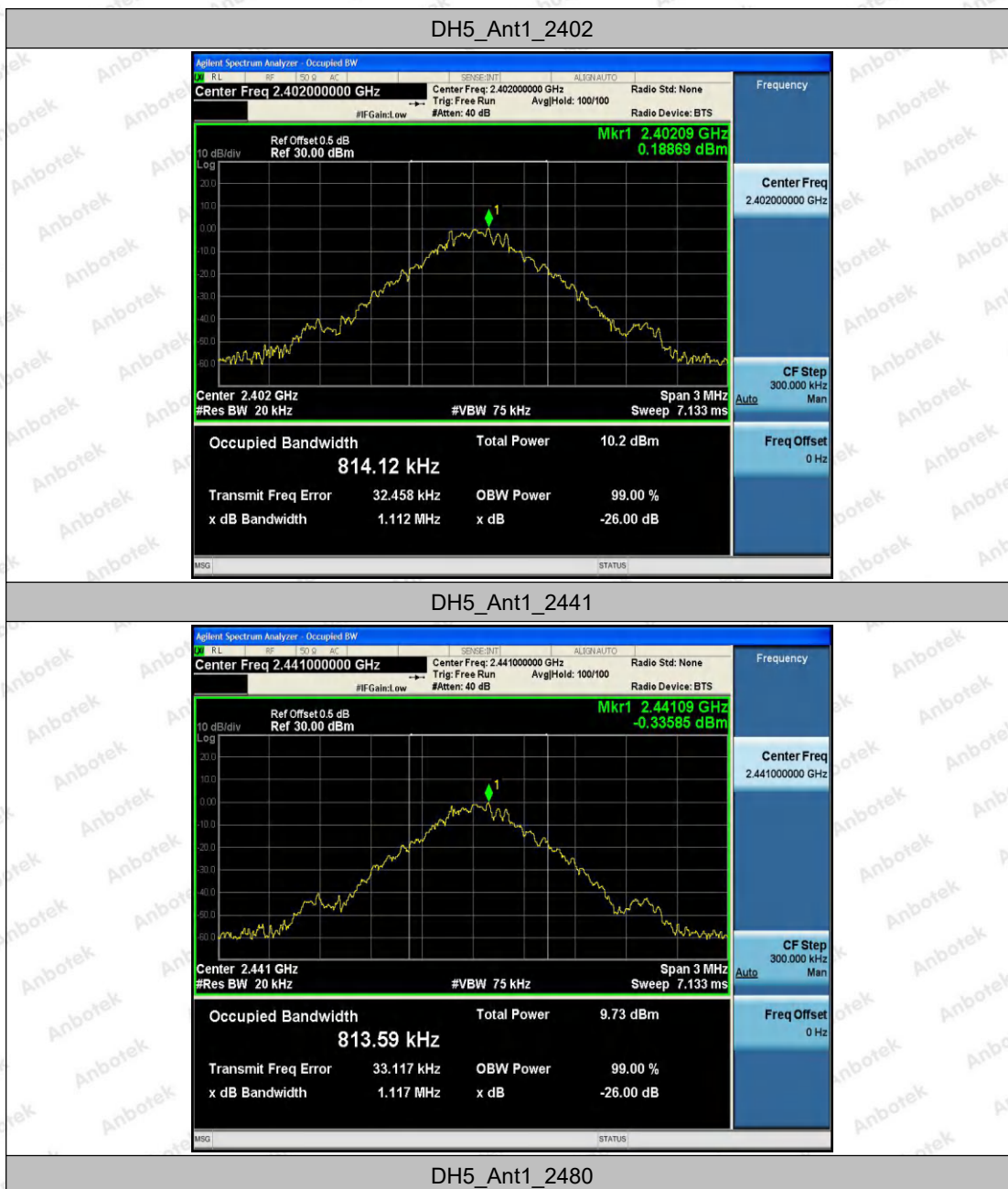
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.81412	2401.62 5	2402.440	---	PASS
		2441	0.81359	2440.62 6	2441.440	---	PASS
		2480	0.81331	2479.62 3	2480.436	---	PASS
2DH5	Ant1	2402	1.1686	2401.44 6	2402.615	---	PASS
		2441	1.1699	2440.44 8	2441.617	---	PASS
		2480	1.1704	2479.44 9	2480.619	---	PASS
3DH5	Ant1	2402	1.1785	2401.44 5	2402.623	---	PASS
		2441	1.1828	2440.44 1	2441.624	---	PASS
		2480	1.1789	2479.44 6	2480.625	---	PASS

Test Graphs

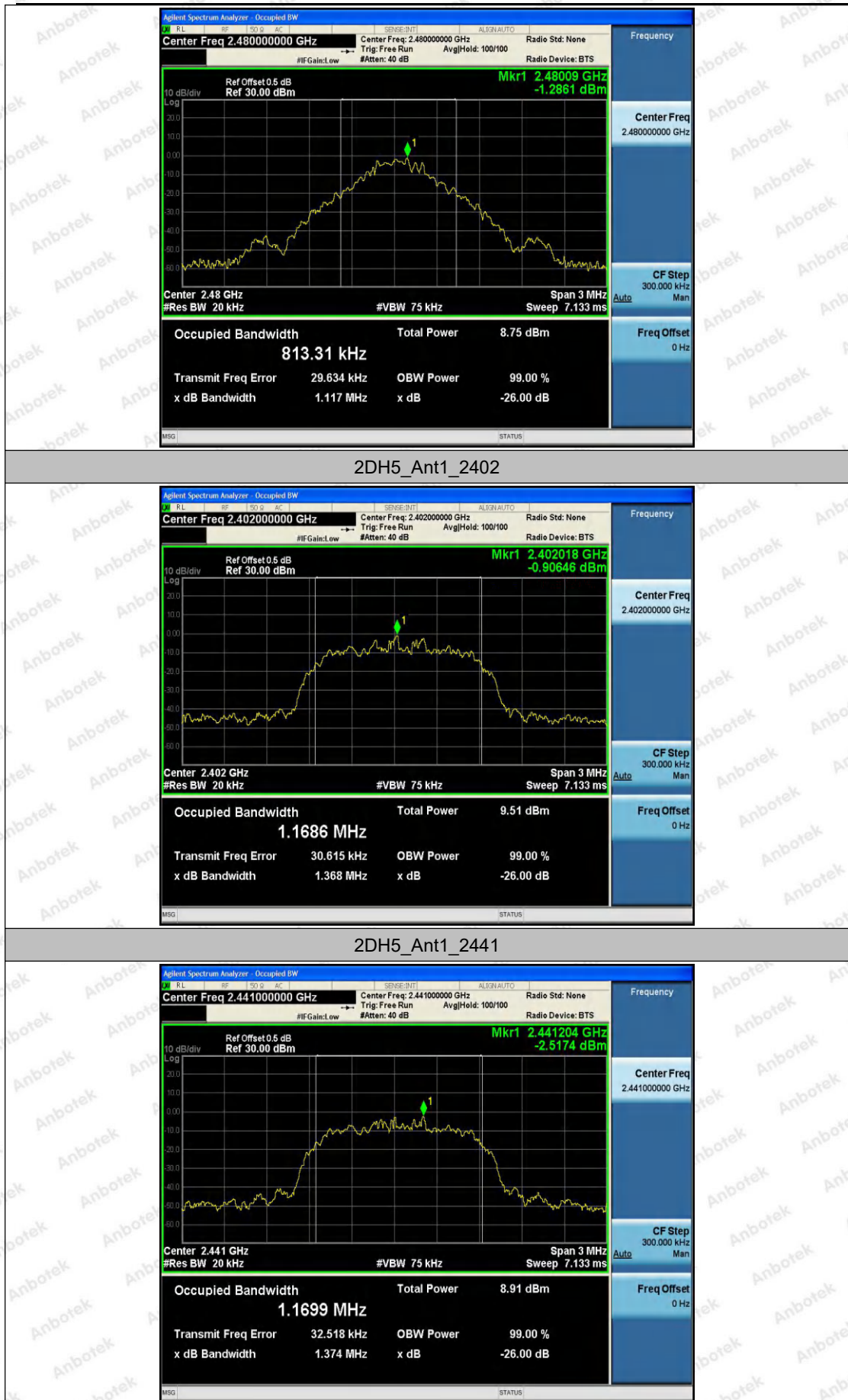


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2DH5_Ant1_2480



3DH5_Ant1_2402



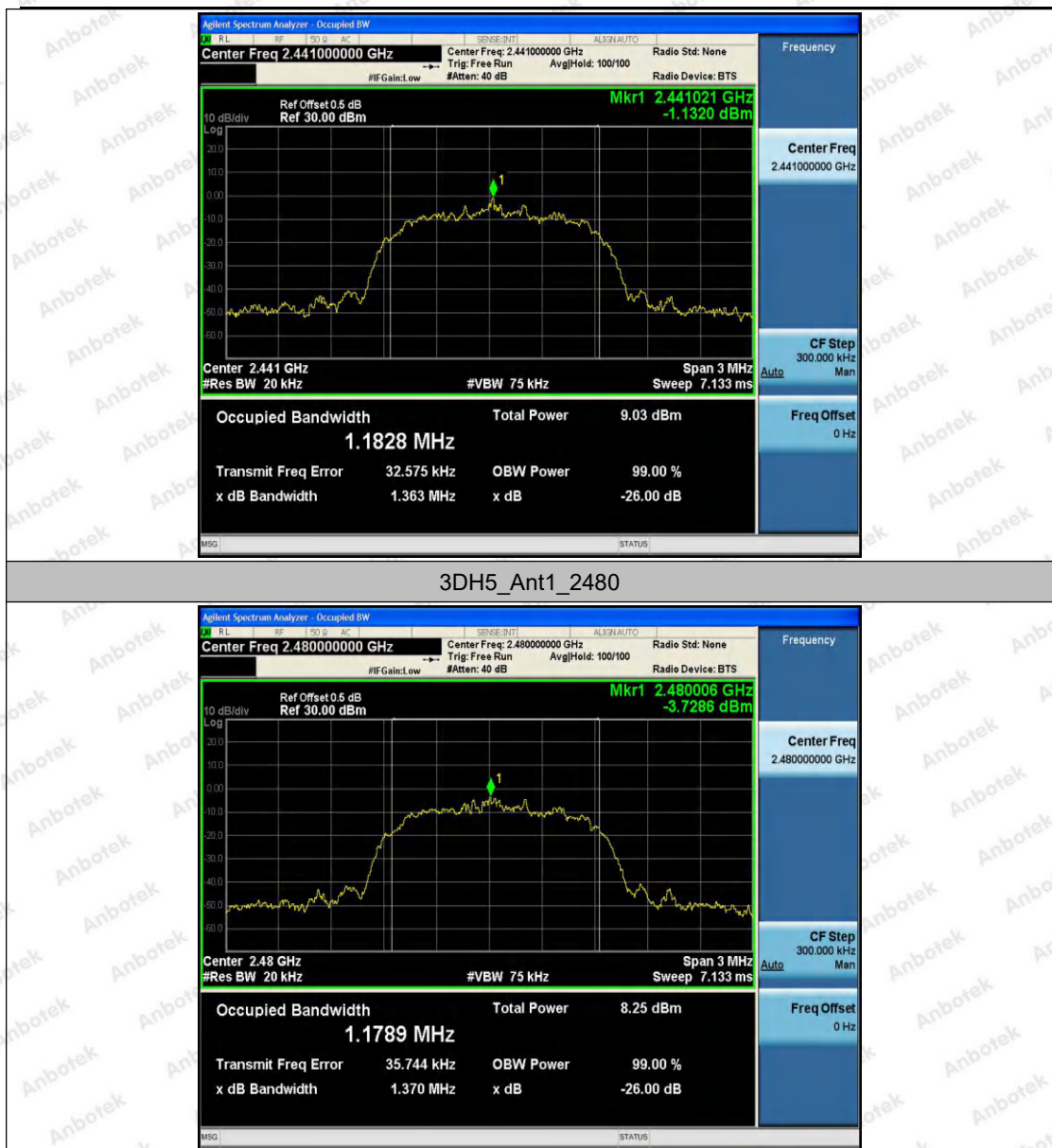
3DH5_Ant1_2441

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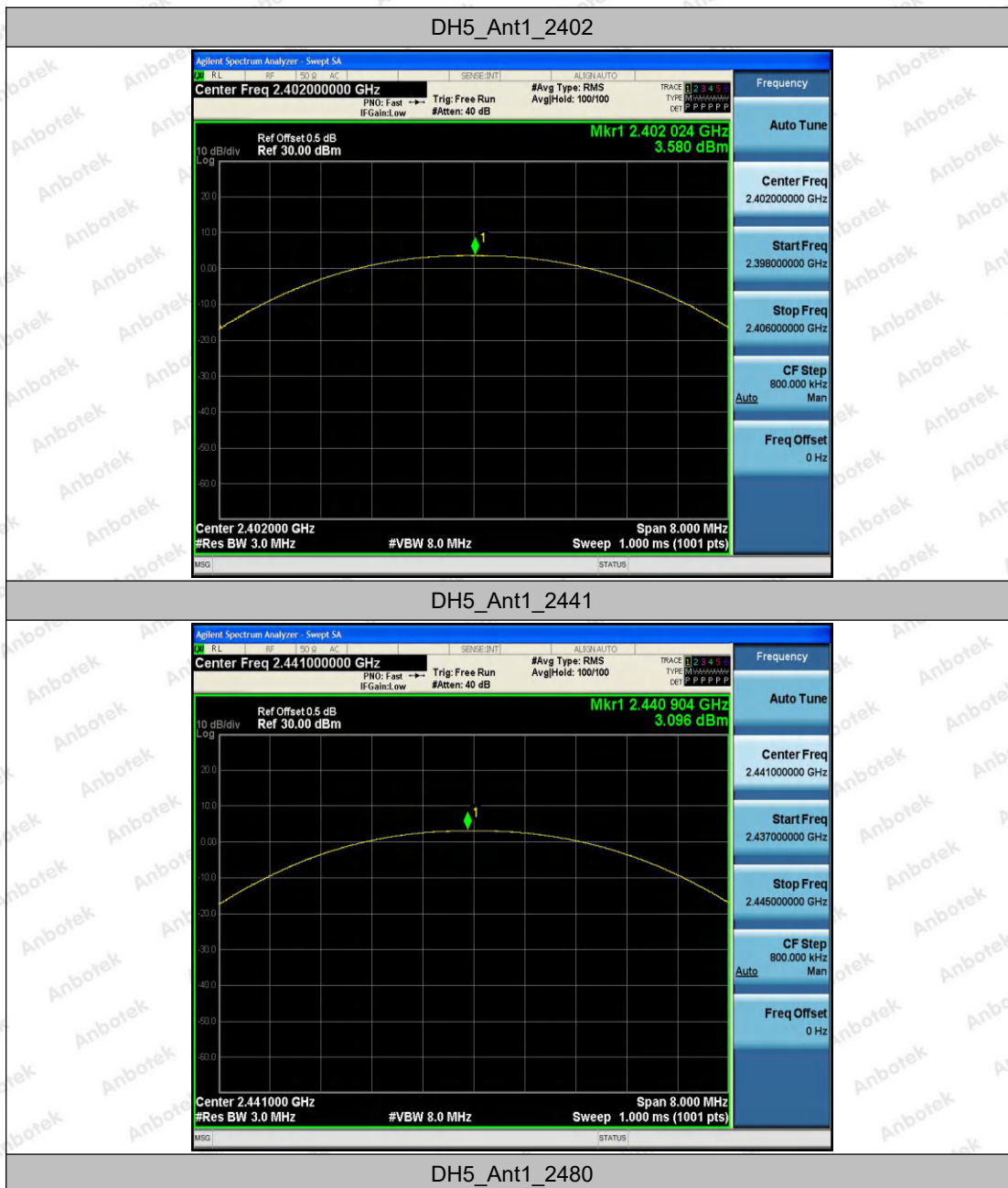
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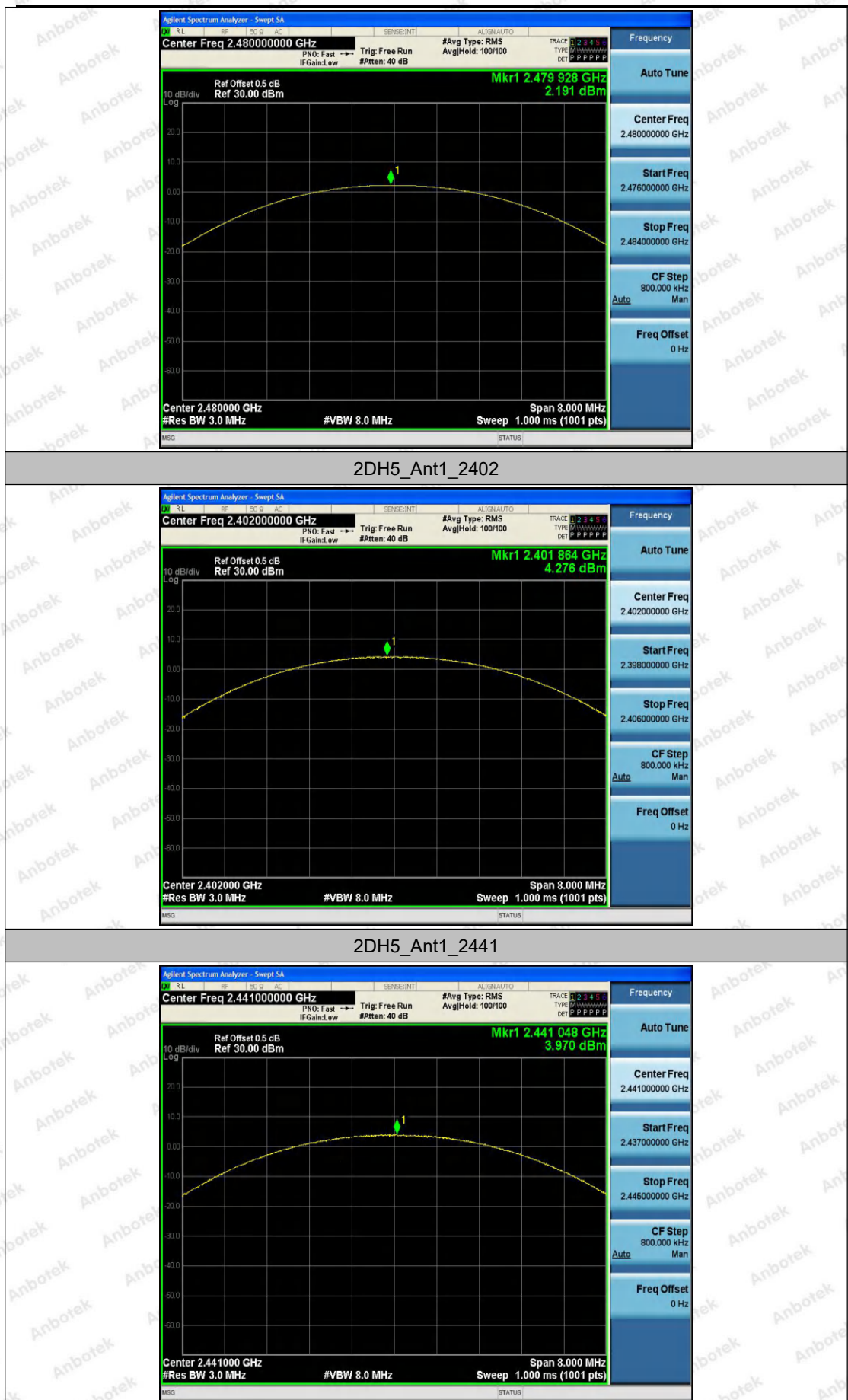
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.58	≤20.97	PASS
		2441	3.1	≤20.97	PASS
		2480	2.19	≤20.97	PASS
2DH5	Ant1	2402	4.28	≤20.97	PASS
		2441	3.97	≤20.97	PASS
		2480	2.93	≤20.97	PASS
3DH5	Ant1	2402	4.76	≤20.97	PASS
		2441	4.52	≤20.97	PASS
		2480	3.48	≤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	0.968	≥ 0.885	PASS
2DH5	Ant1	Hop	1.17	≥ 0.890	PASS
3DH5	Ant1	Hop	1.05	≥ 0.874	PASS

Test Graphs



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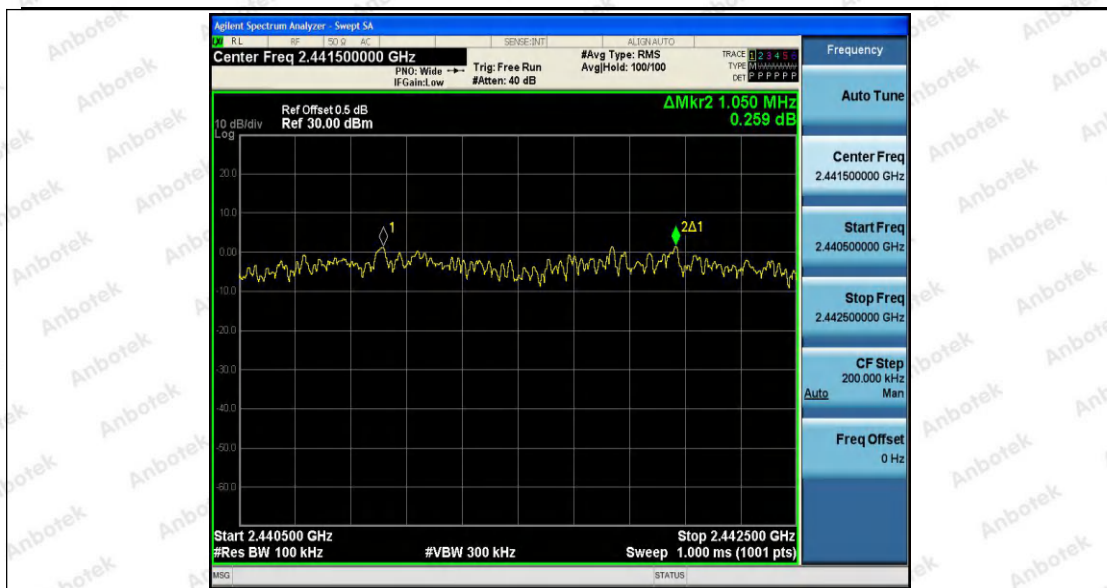
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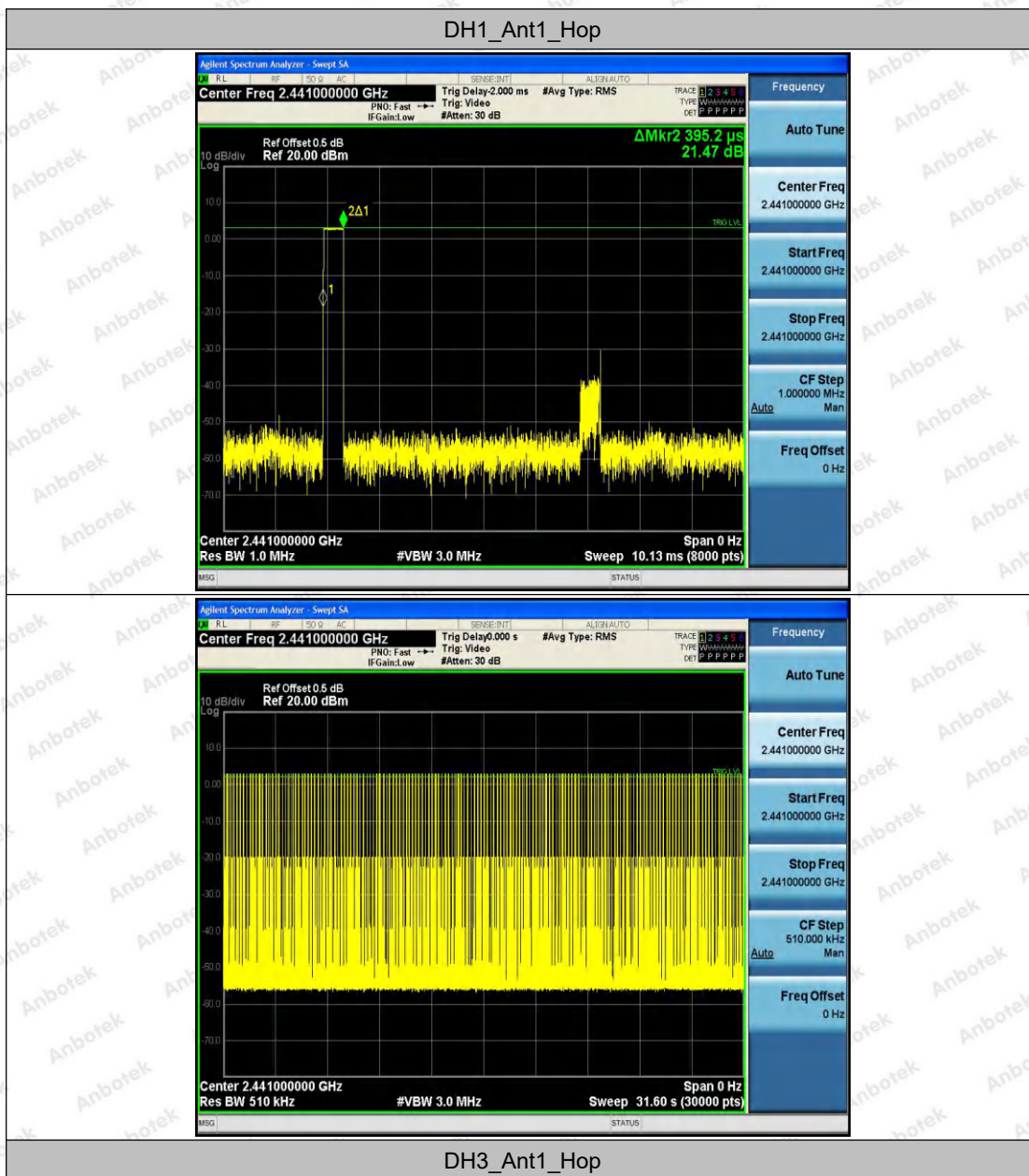
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	320	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.65	150	0.248	≤0.4	PASS
DH5	Ant1	Hop	2.90	115	0.333	≤0.4	PASS
2DH1	Ant1	Hop	0.41	320	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.66	170	0.282	≤0.4	PASS
2DH5	Ant1	Hop	2.91	108	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.41	319	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.66	166	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.91	113	0.329	≤0.4	PASS

Test Graphs



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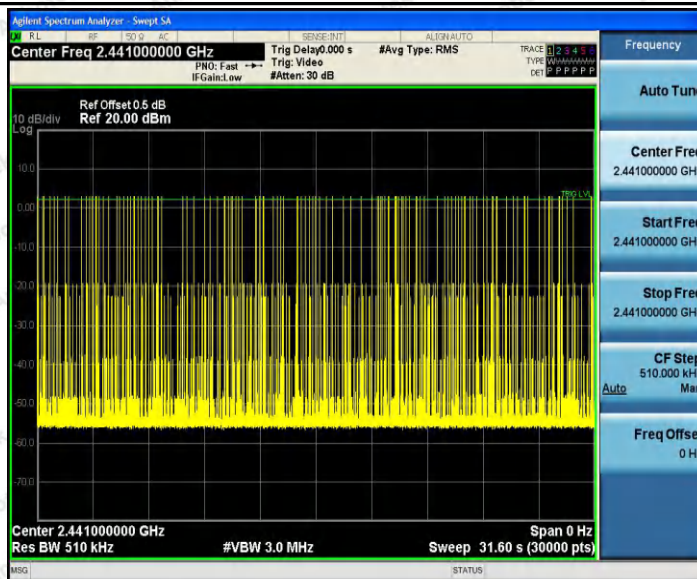
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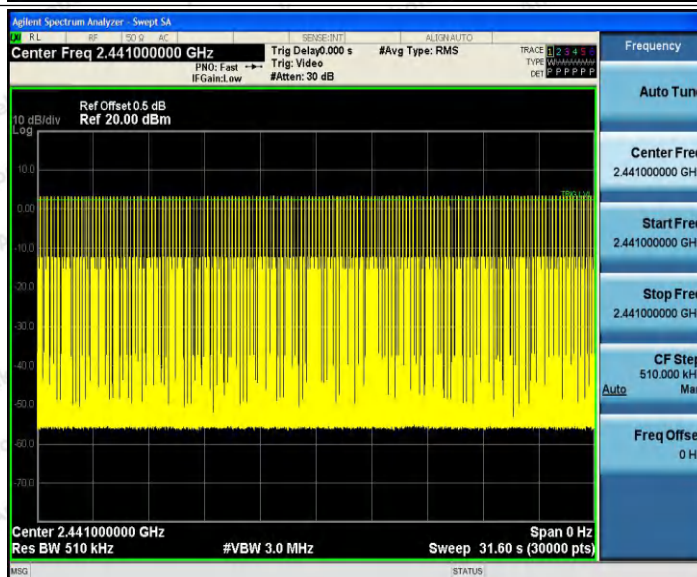
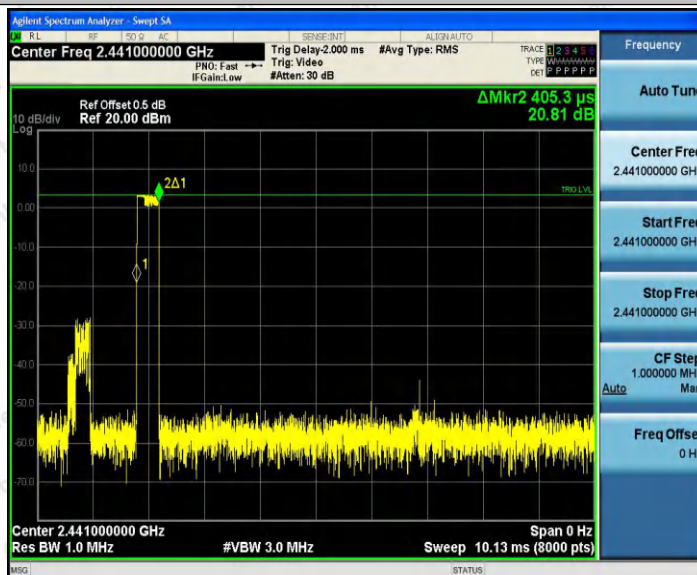
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DH5_Ant1_Hop



2DH1_Ant1_Hop



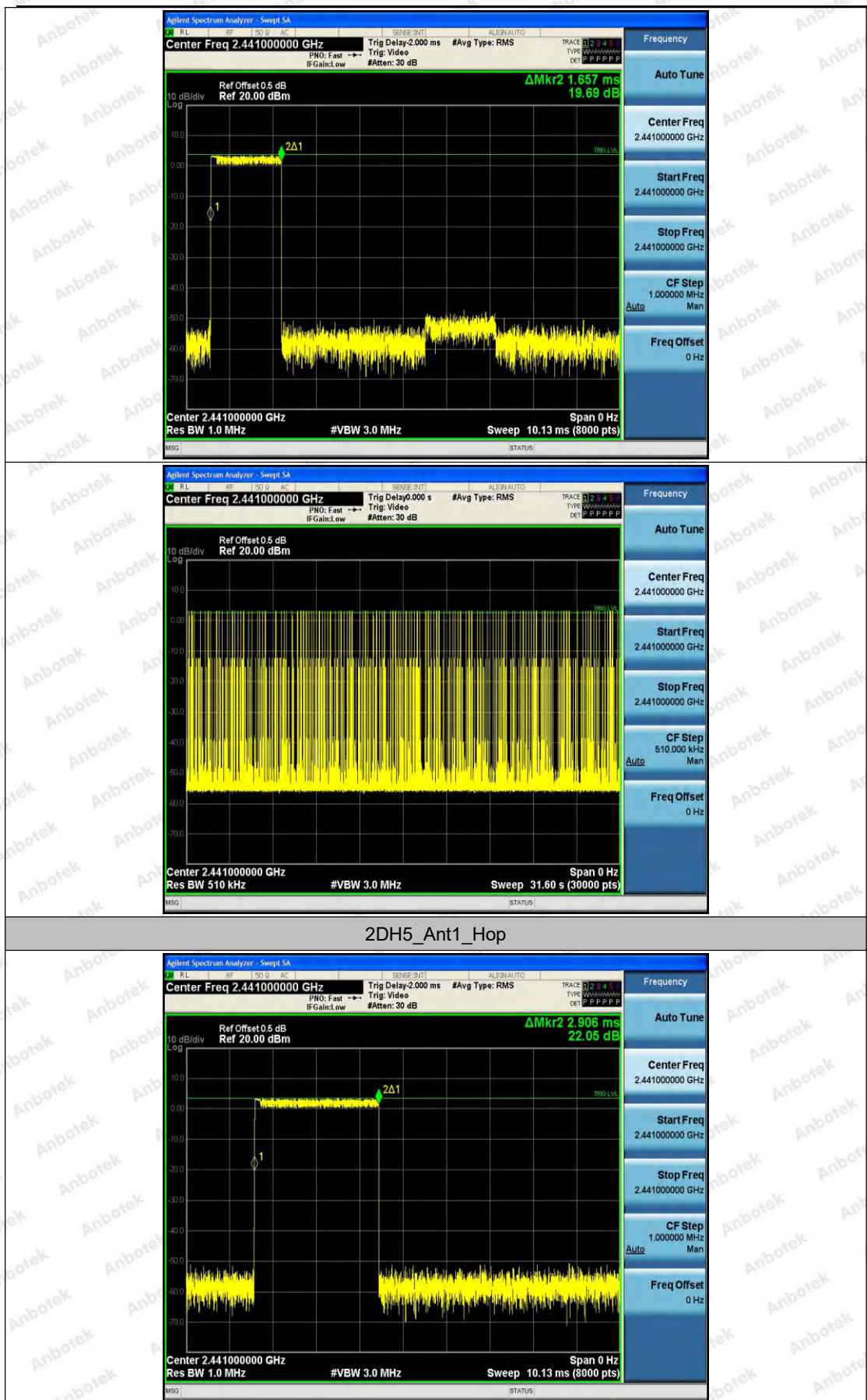
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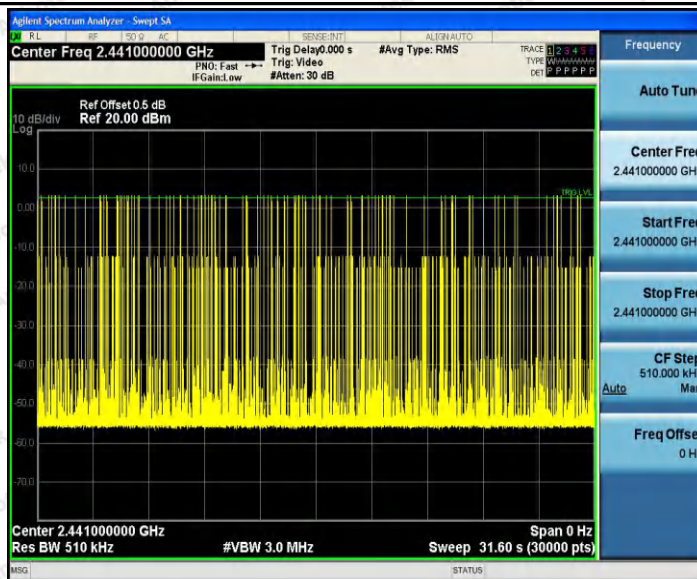
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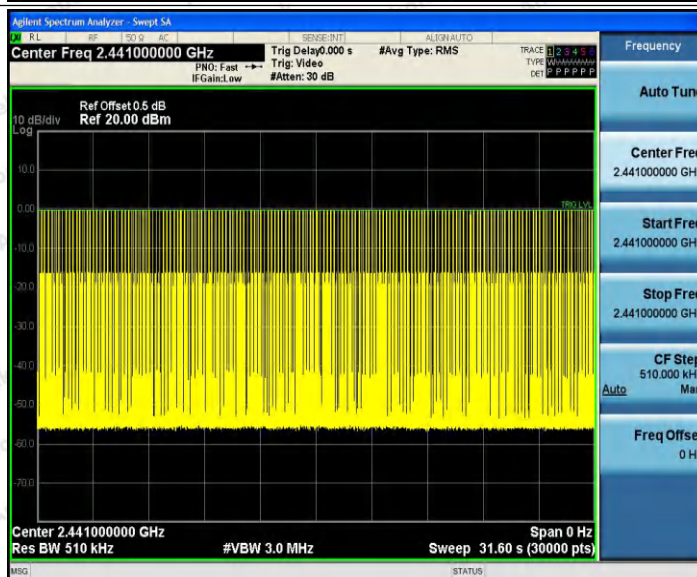
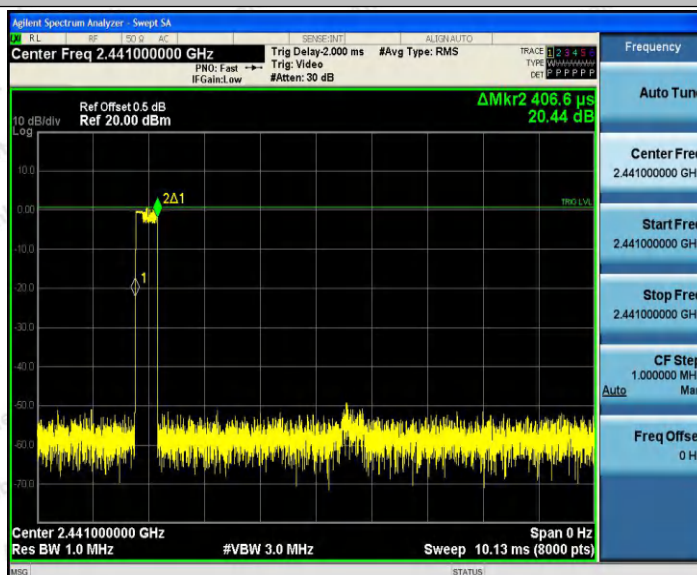
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3DH1_Ant1_Hop



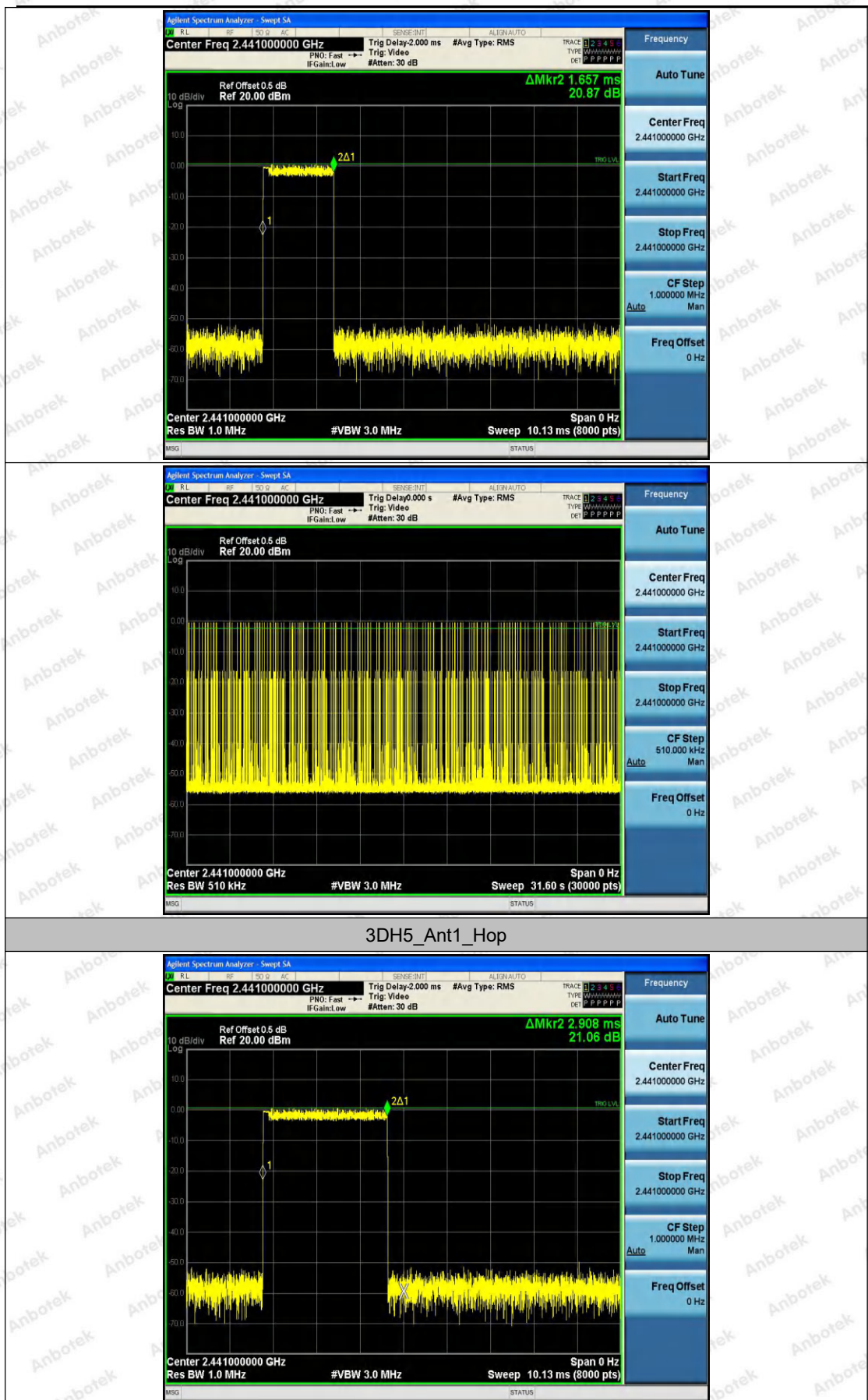
3DH3_Ant1_Hop

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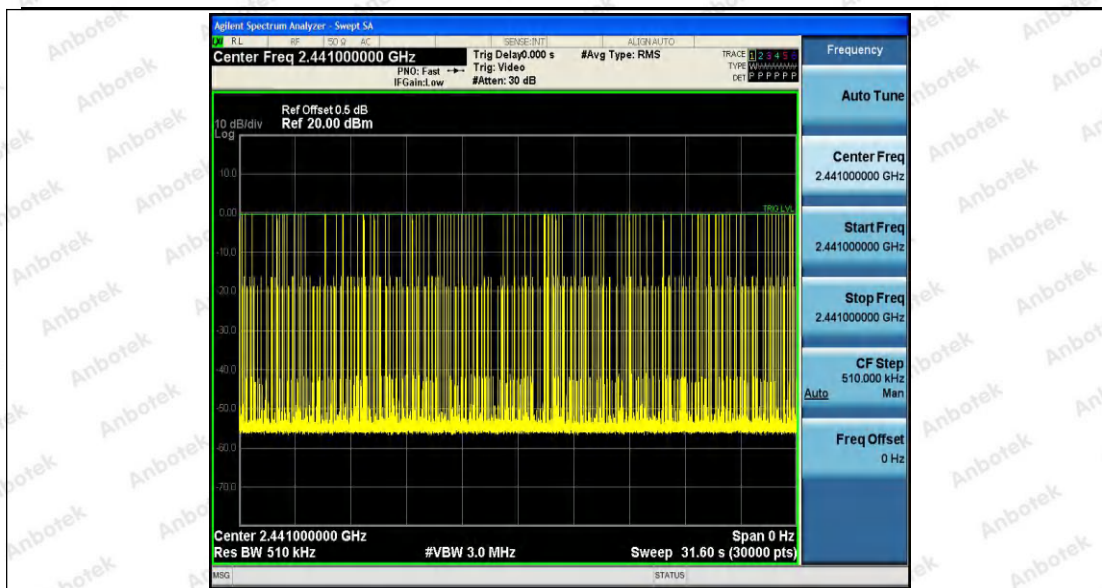


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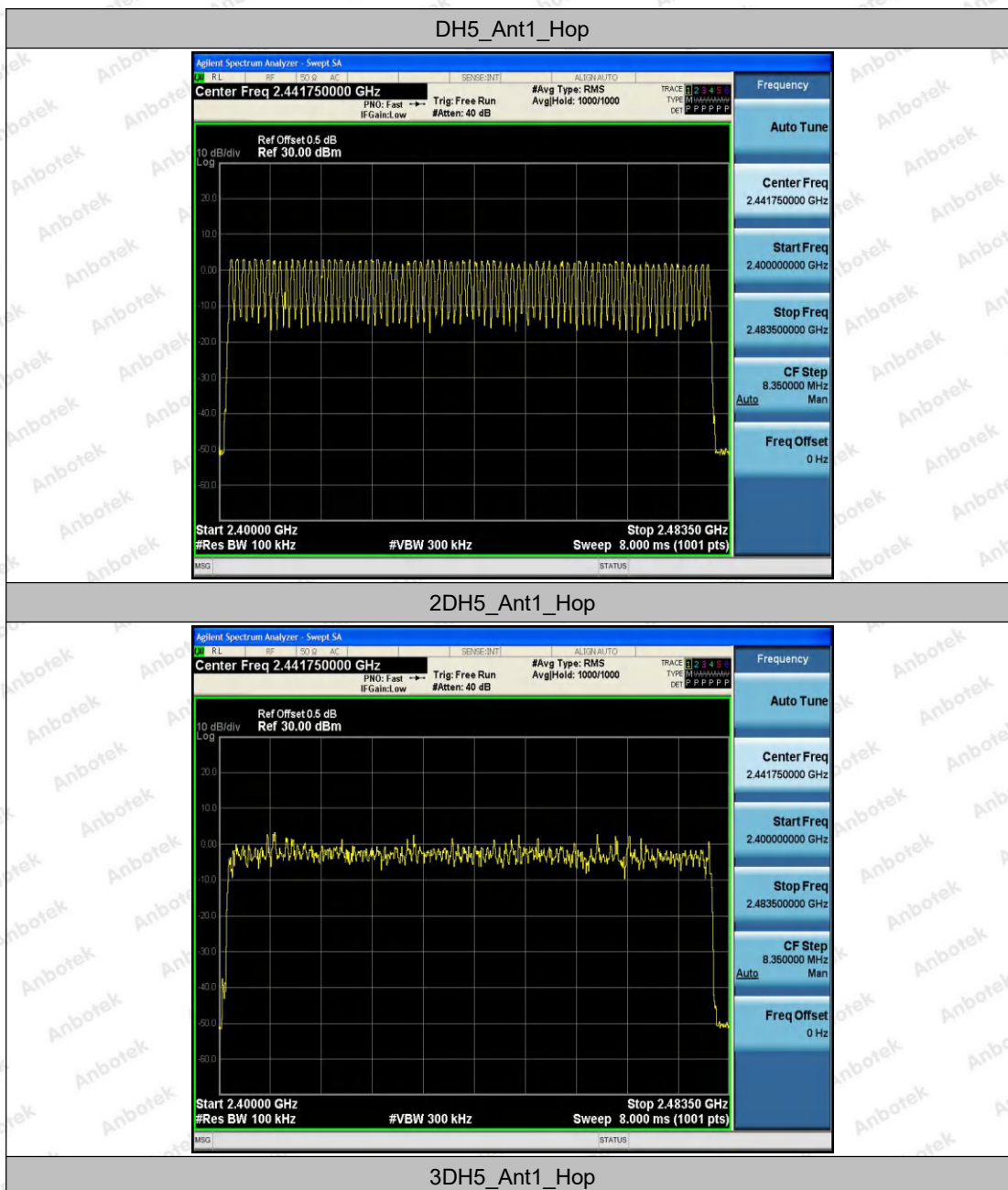
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Appendix F: Number of hopping channels

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

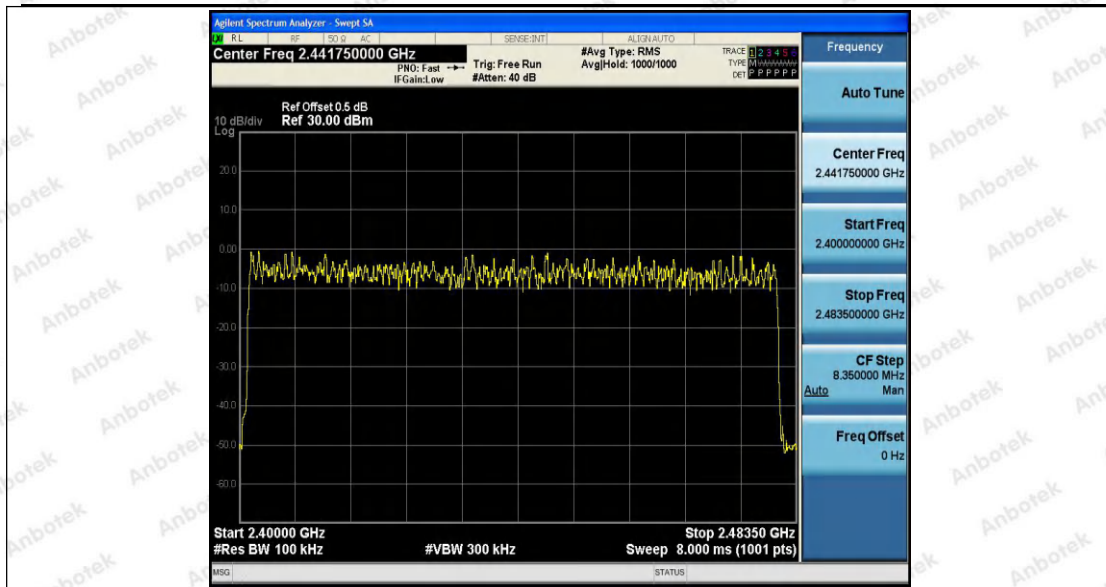


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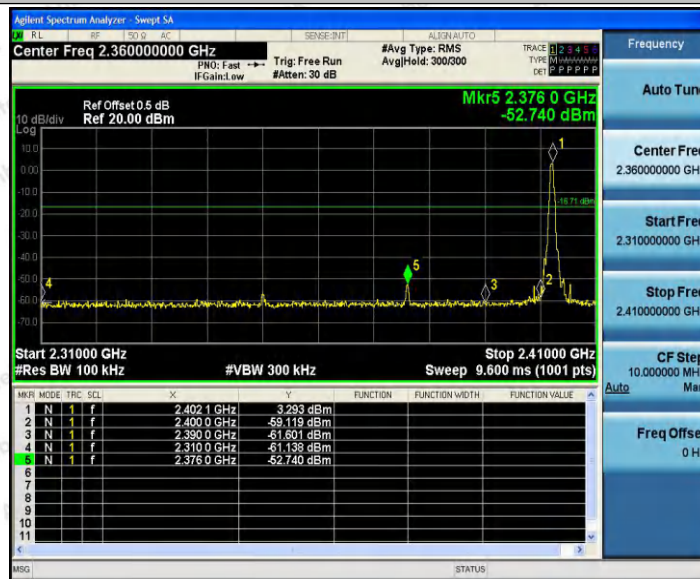
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.29	-52.74	≤-16.71	PASS
		High	2480	1.97	-58.84	≤-18.03	PASS
		Low	Hop	3.09	-53.43	≤-16.91	PASS
		High	Hop	1.77	-59.35	≤-18.23	PASS
2DH5	Ant1	Low	2402	2.94	-52.74	≤-17.06	PASS
		High	2480	2.04	-57.86	≤-17.96	PASS
		Low	Hop	3.31	-54.25	≤-16.69	PASS
		High	Hop	-1.65	-61.49	≤-21.65	PASS
3DH5	Ant1	Low	2402	3.40	-50.45	≤-16.6	PASS
		High	2480	1.59	-58.2	≤-18.41	PASS
		Low	Hop	-3.16	-59.21	≤-23.16	PASS
		High	Hop	-5.72	-61.03	≤-25.72	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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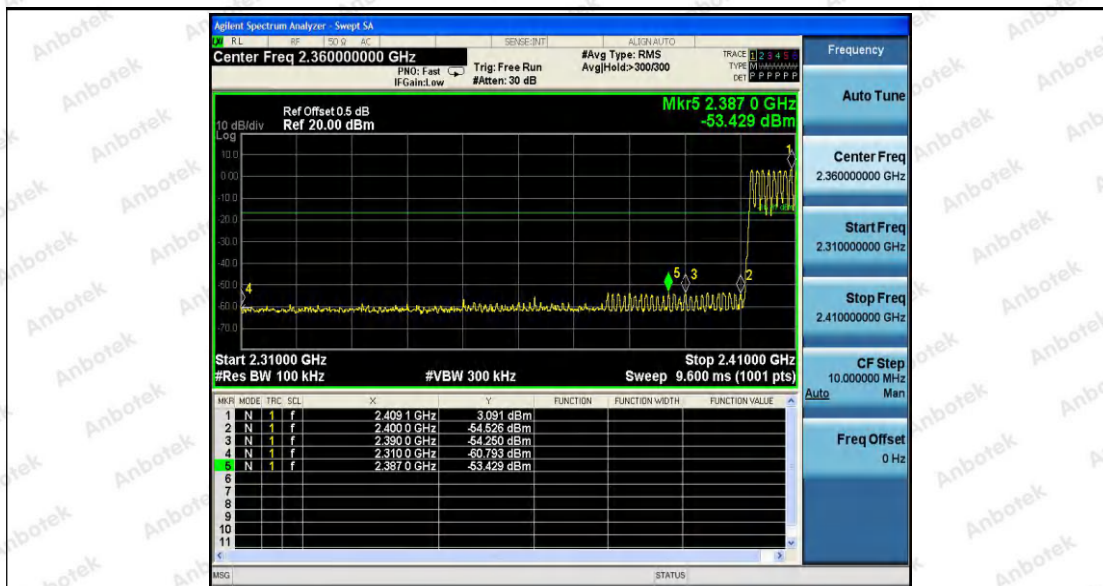
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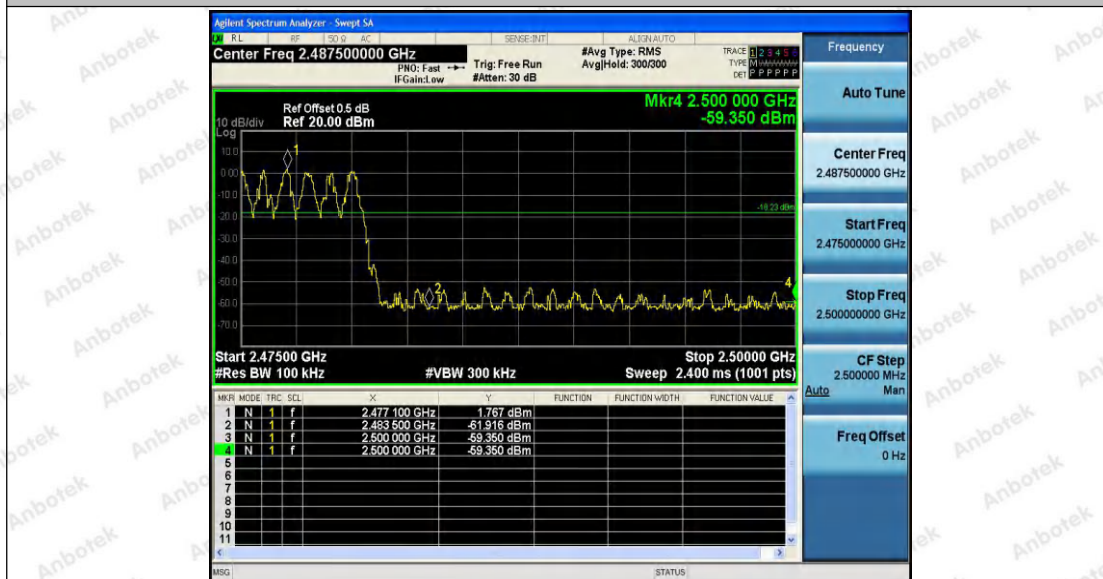
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



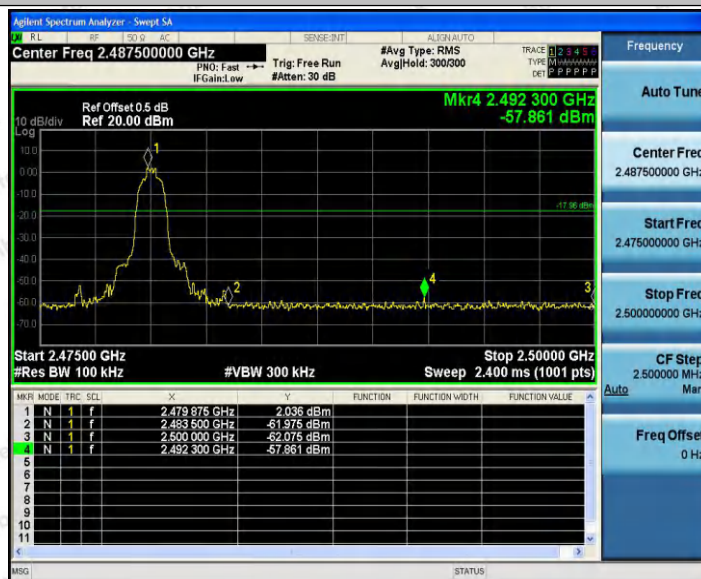
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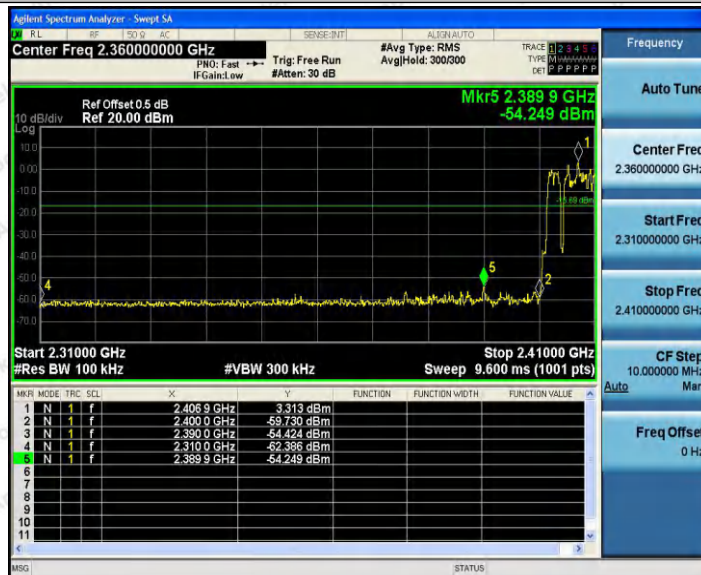
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



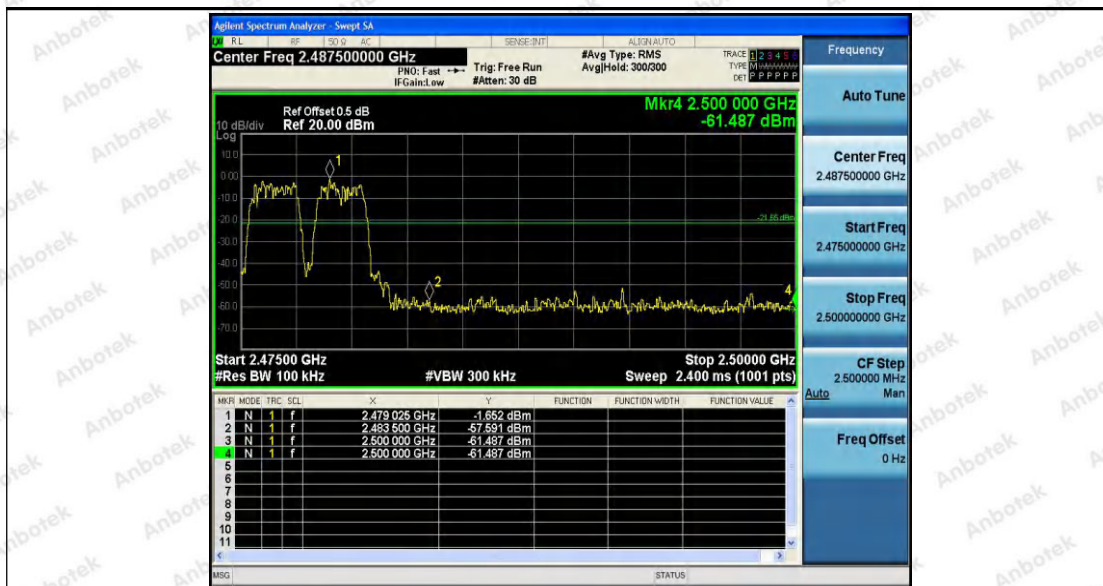
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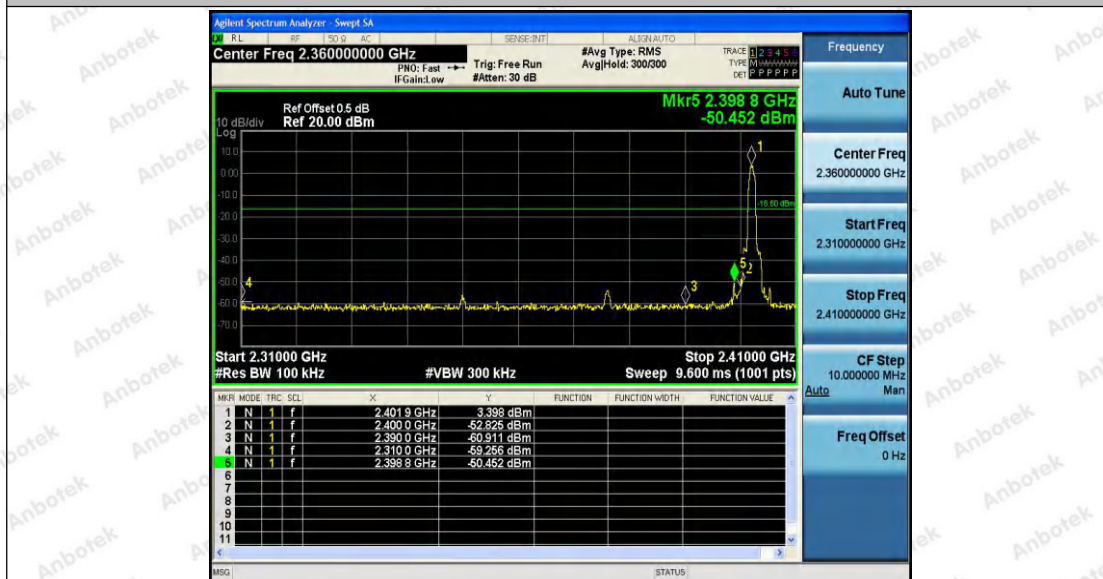
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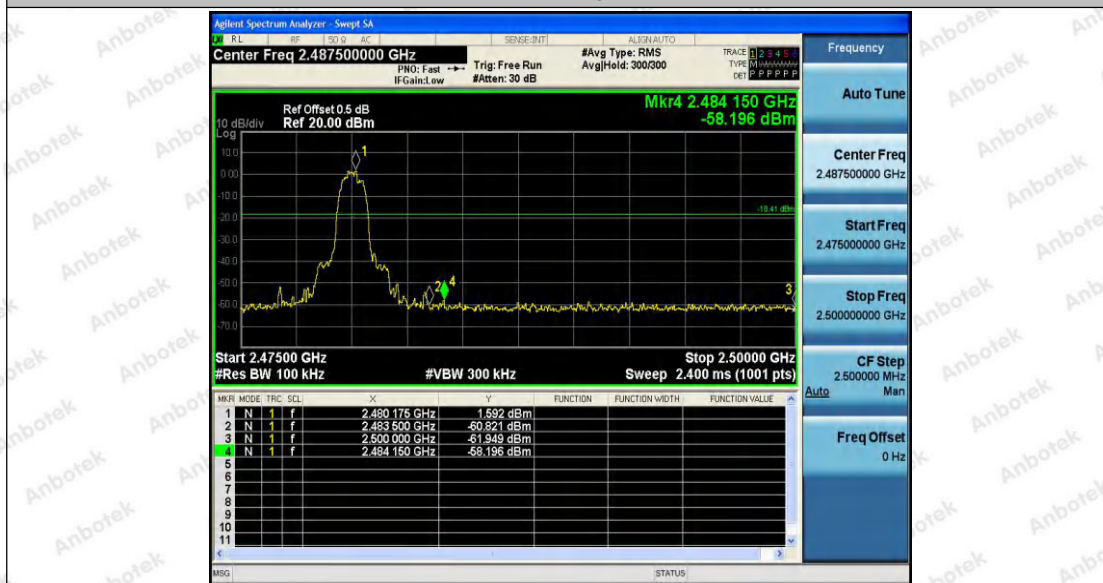
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

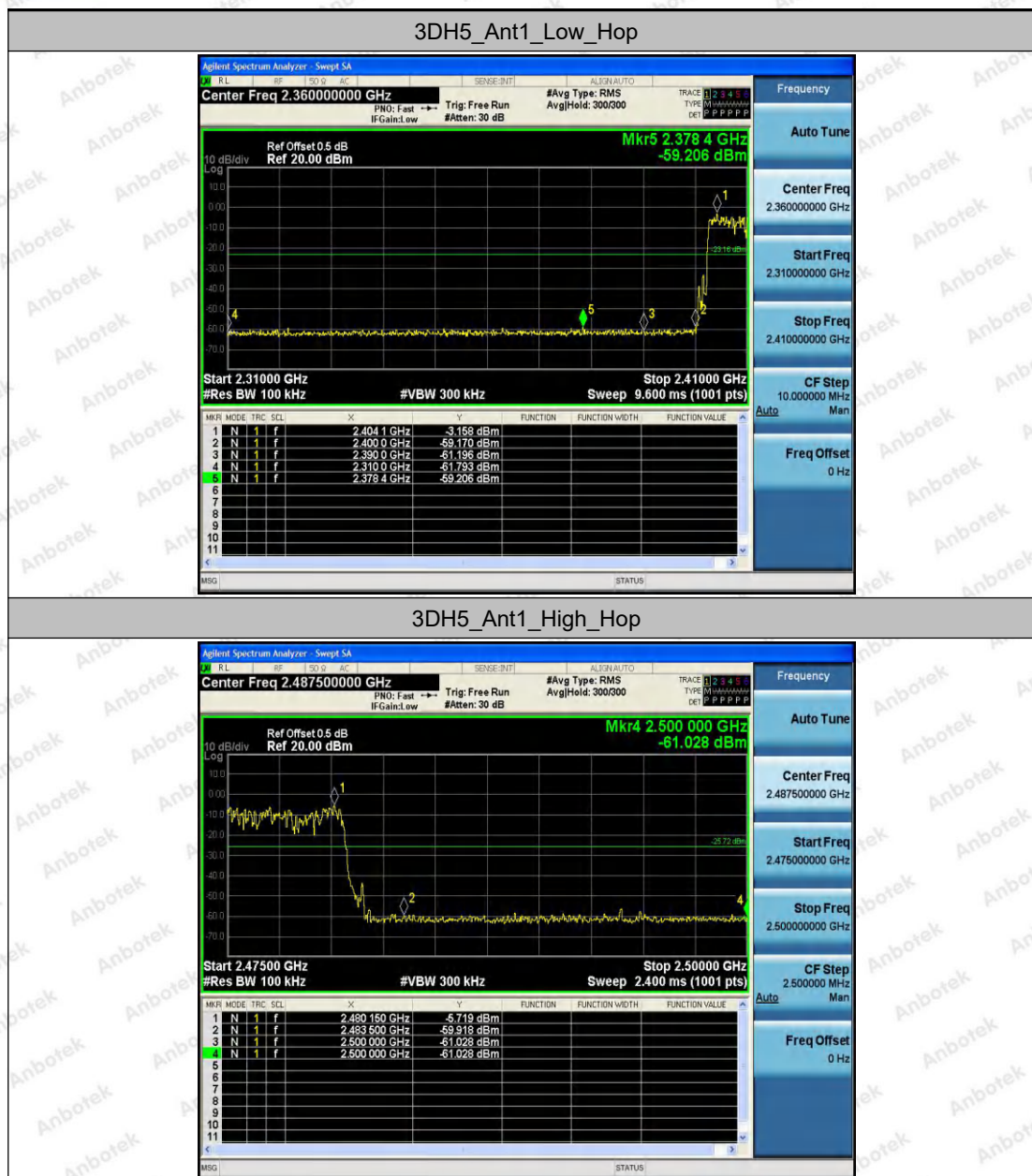


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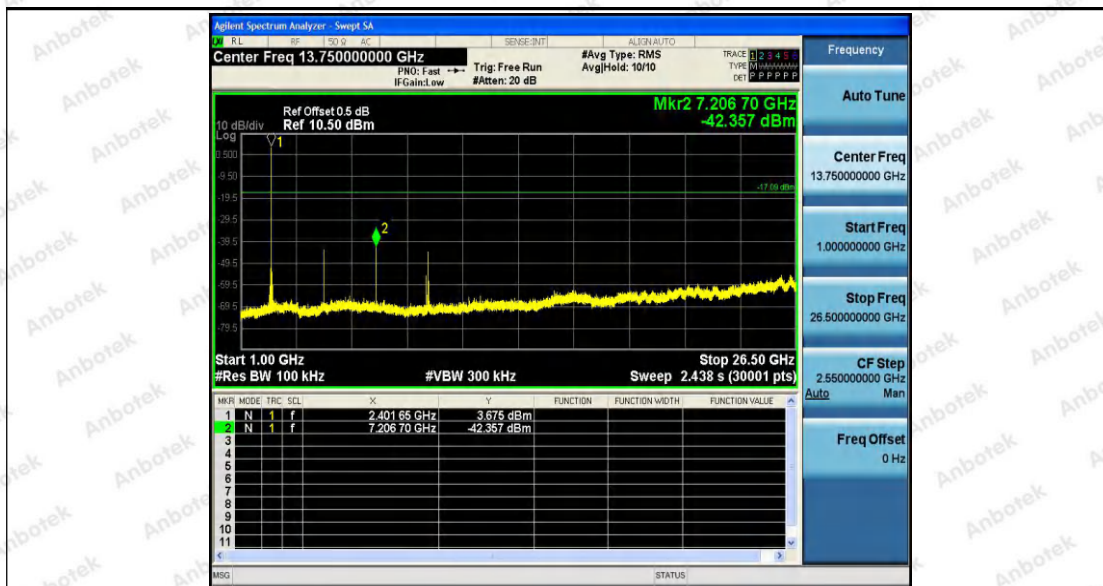
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Appendix H: Conducted Spurious Emission

Test Result

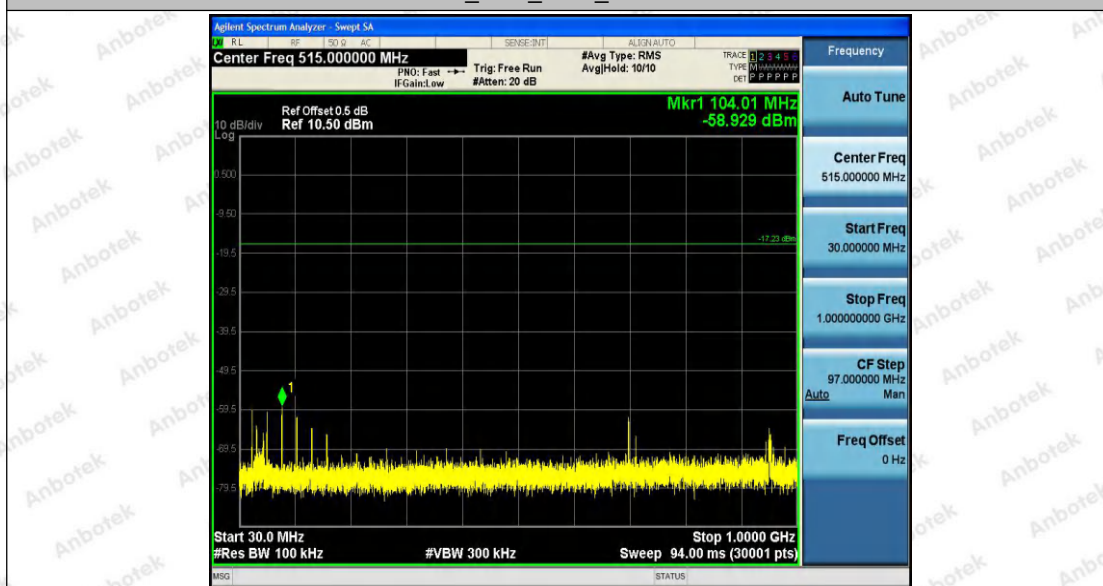
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-58.93	≤-17.09	PASS
			1000~26500	2.91	-42.36	≤-17.09	PASS
		2441	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-58.93	≤-17.23	PASS
			1000~26500	2.77	-44.21	≤-17.23	PASS
		2480	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-48.04	≤-18.54	PASS
			1000~26500	1.46	-45.99	≤-18.54	PASS
2DH5	Ant1	2402	Reference	2.89	2.89	---	PASS
			30~1000	2.89	-58.73	≤-17.11	PASS
			1000~26500	2.89	-44.43	≤-17.11	PASS
		2441	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-59.43	≤-17.05	PASS
			1000~26500	2.95	-44.13	≤-17.05	PASS
		2480	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-58.88	≤-18.05	PASS
			1000~26500	1.95	-46.41	≤-18.05	PASS
3DH5	Ant1	2402	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-59.2	≤-16.66	PASS
			1000~26500	3.34	-44.03	≤-16.66	PASS
		2441	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-54.11	≤-17.84	PASS
			1000~26500	2.16	-43.41	≤-17.84	PASS
		2480	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-59.21	≤-18.89	PASS
			1000~26500	1.11	-46.02	≤-18.89	PASS



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



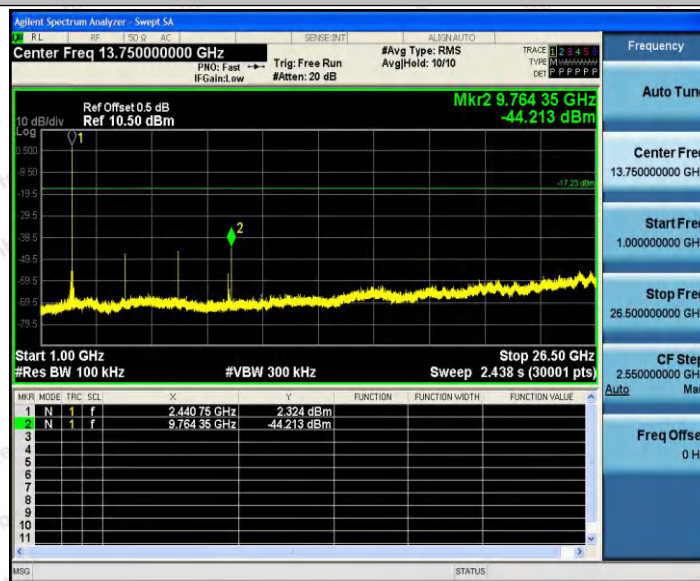
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



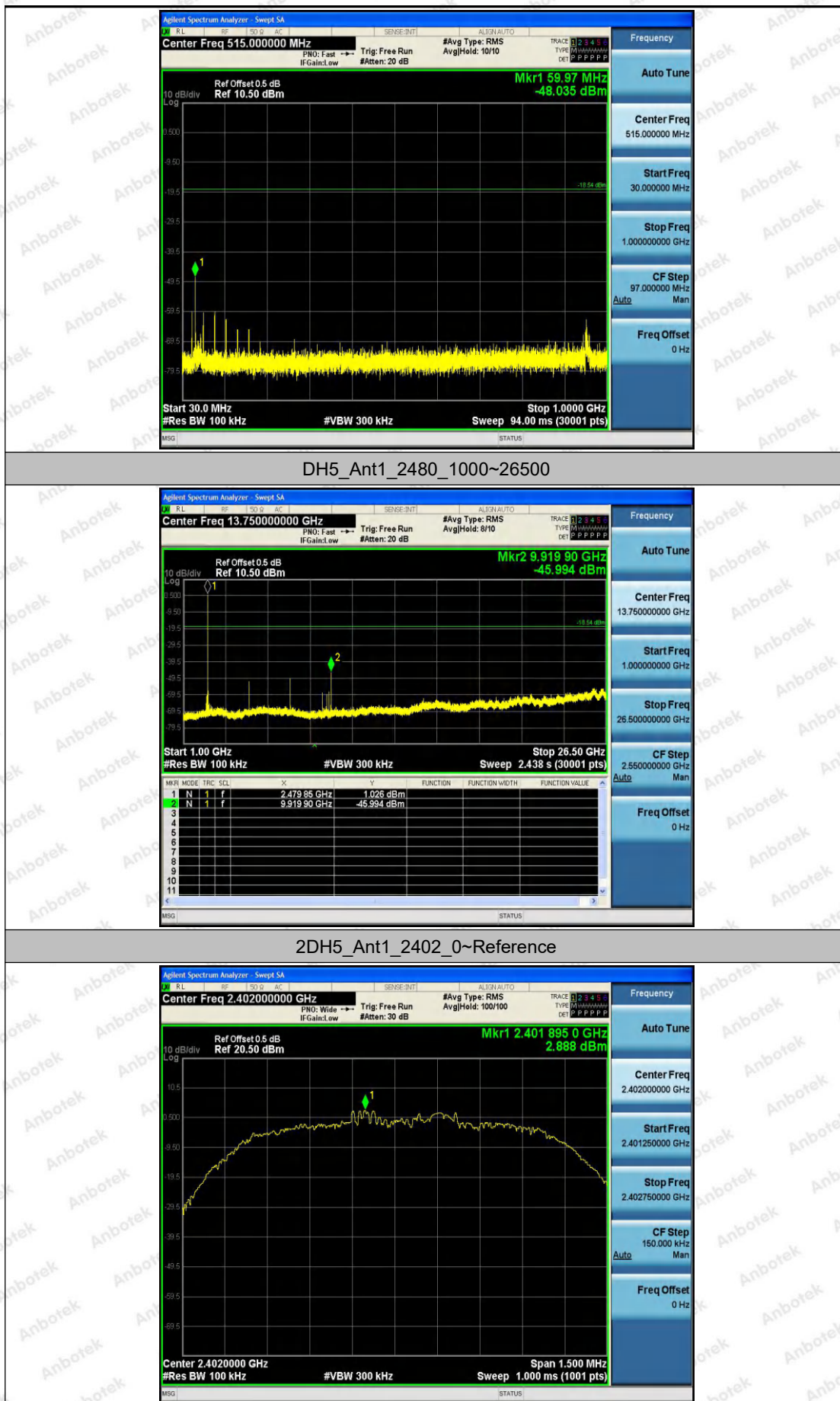
DH5_Ant1_2480_30~1000

Shenzhen Anbotech Compliance Laboratory Limited

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

Hotline
400-003-0500
www.anbotech.com

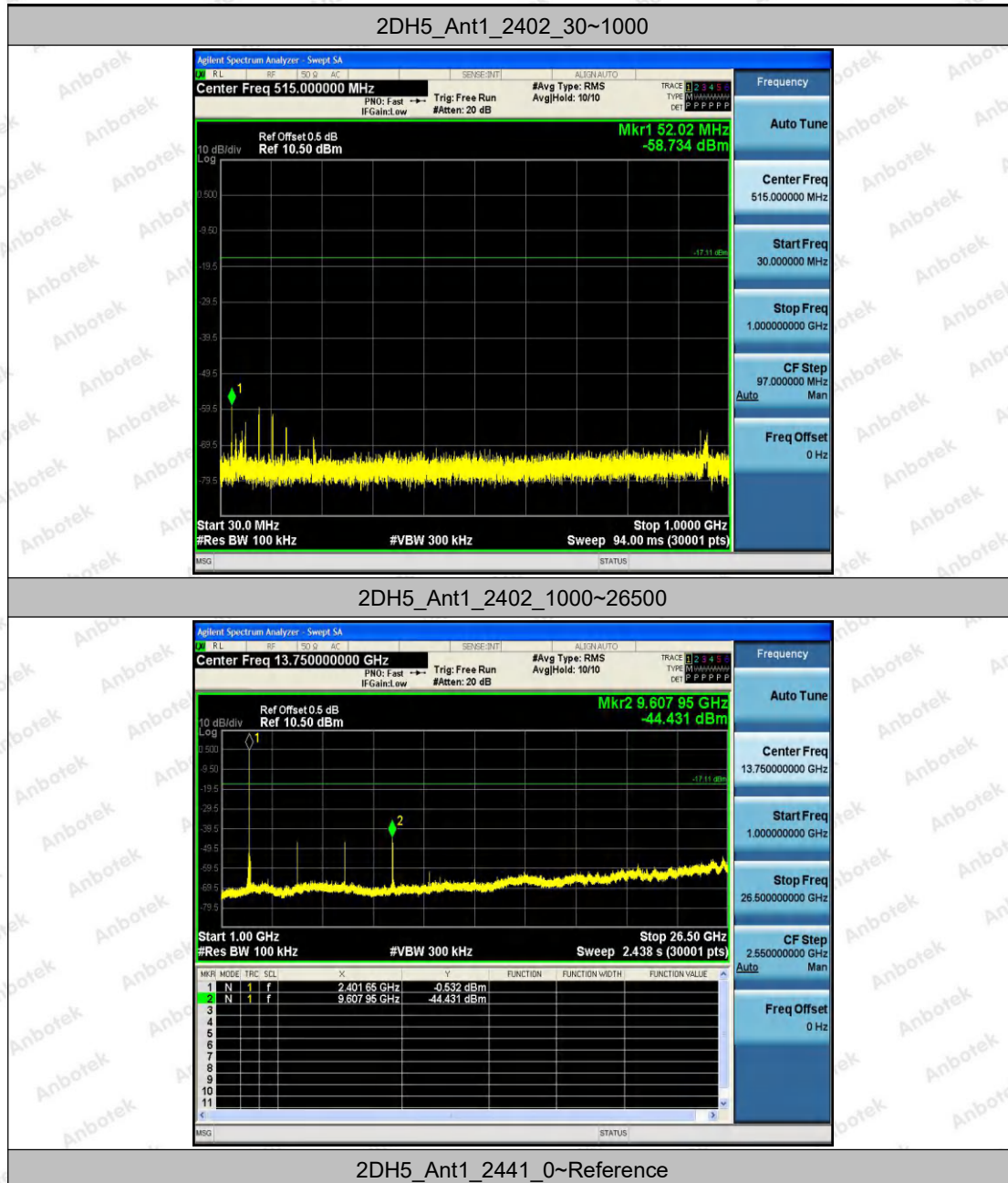


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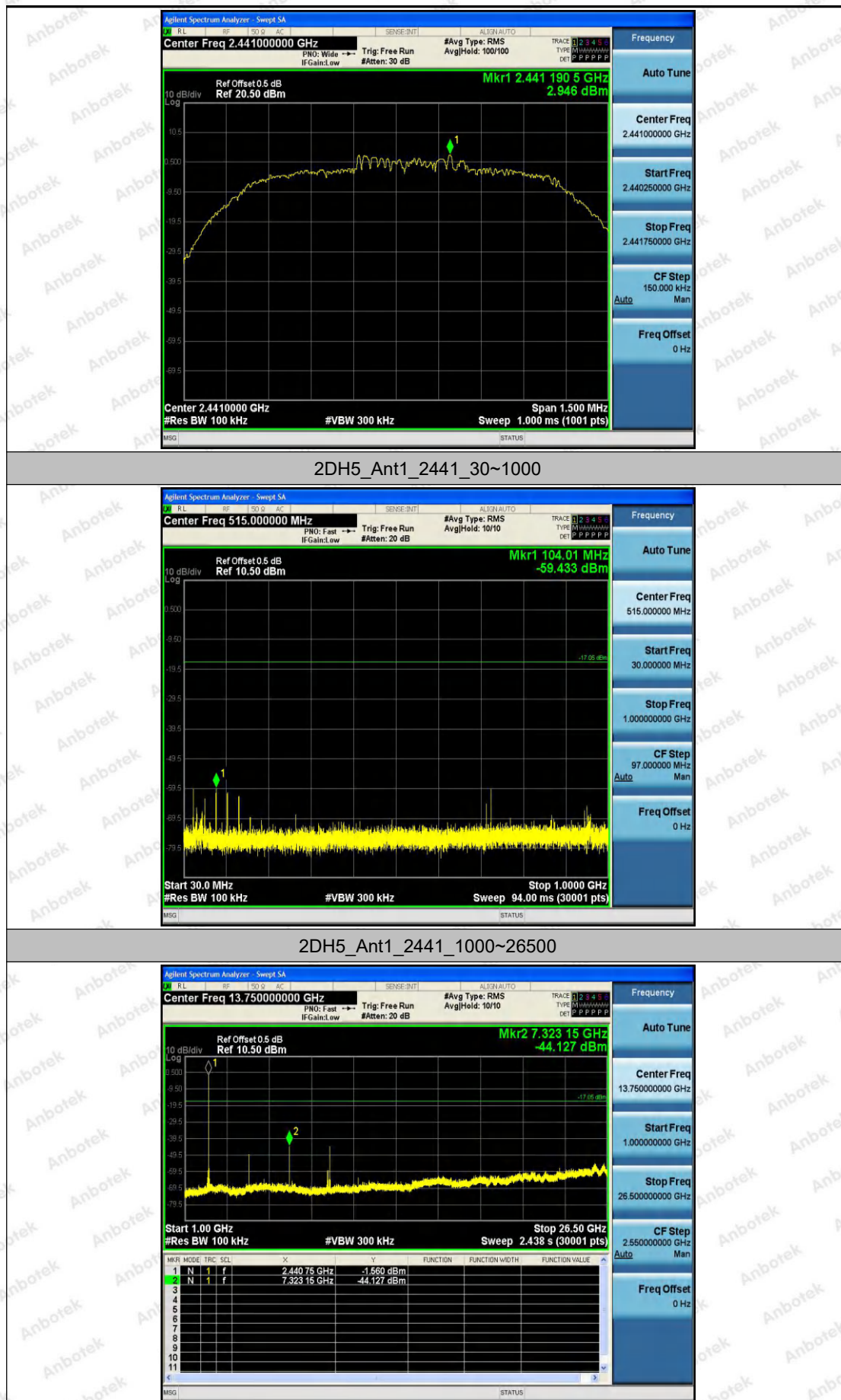


Shenzhen Anbotek Compliance Laboratory Limited

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

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

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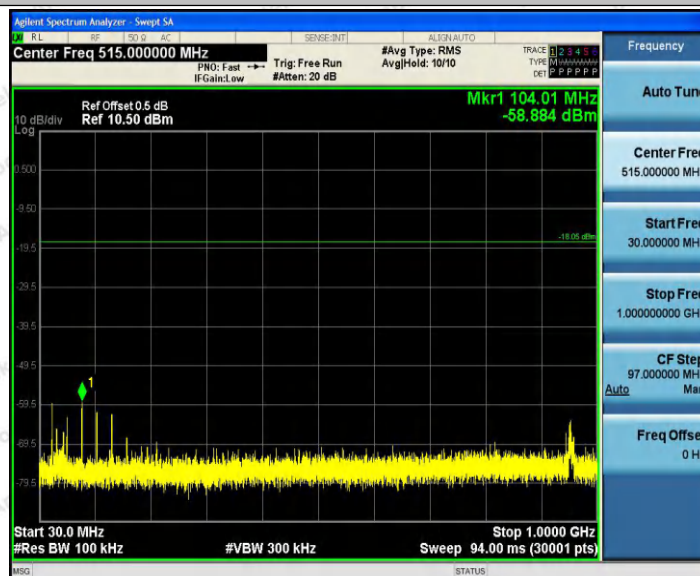
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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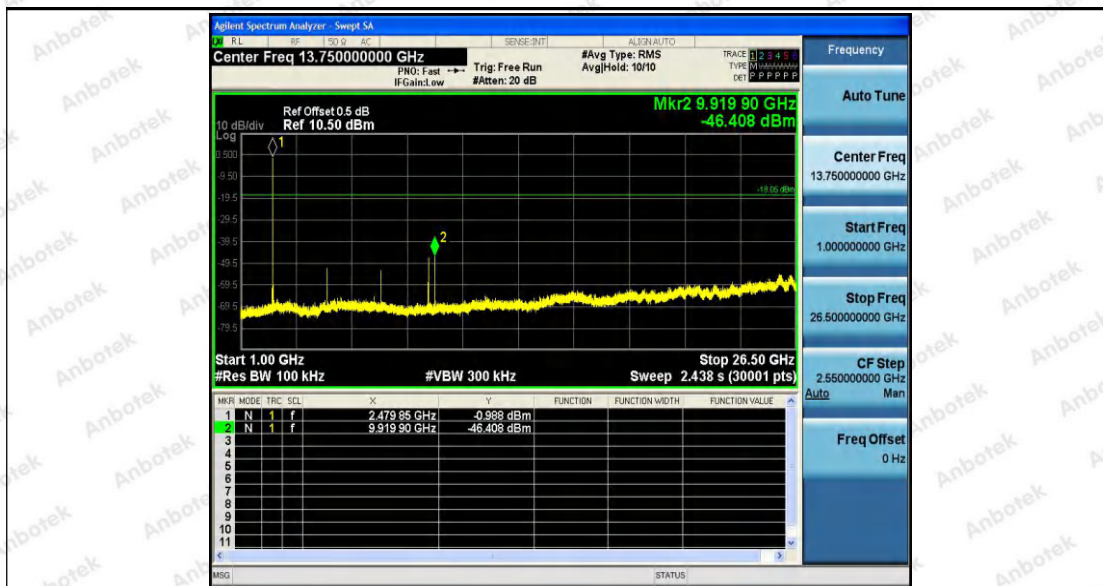
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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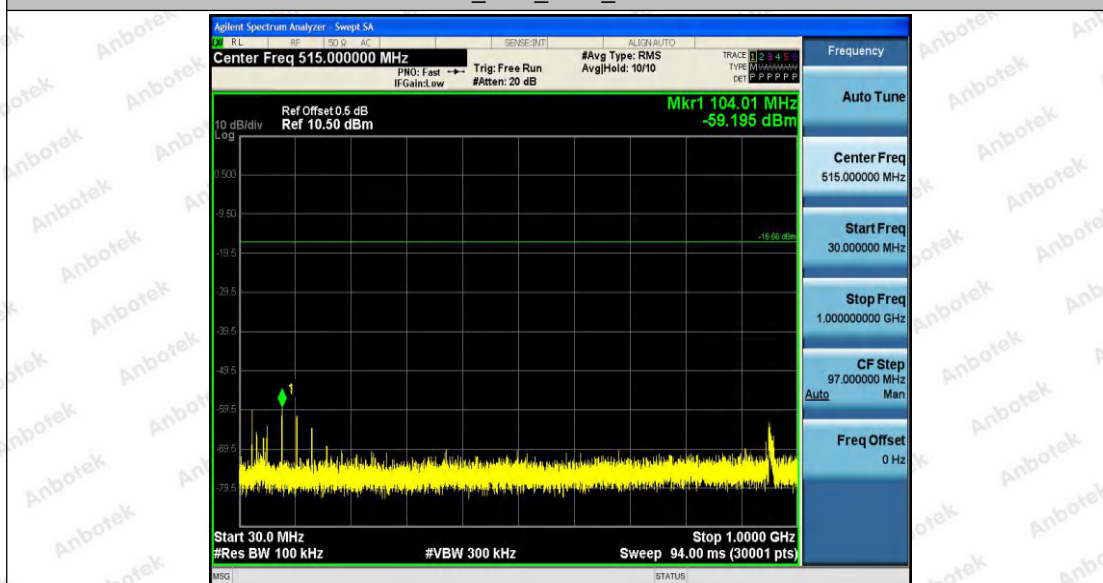
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



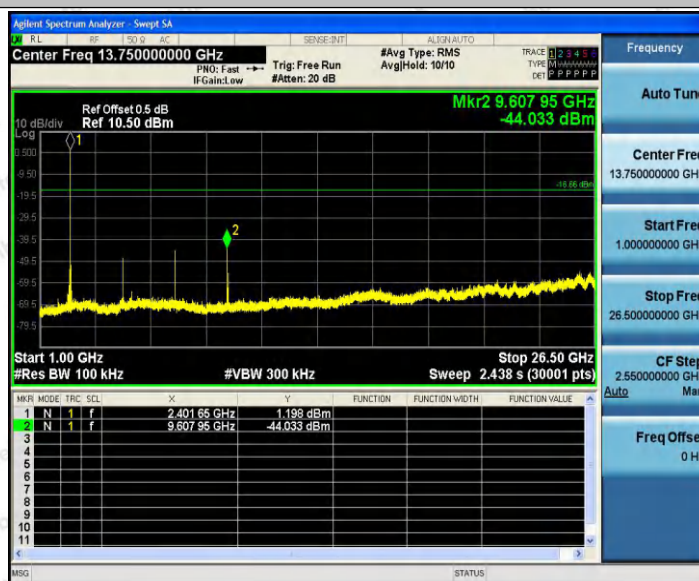
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



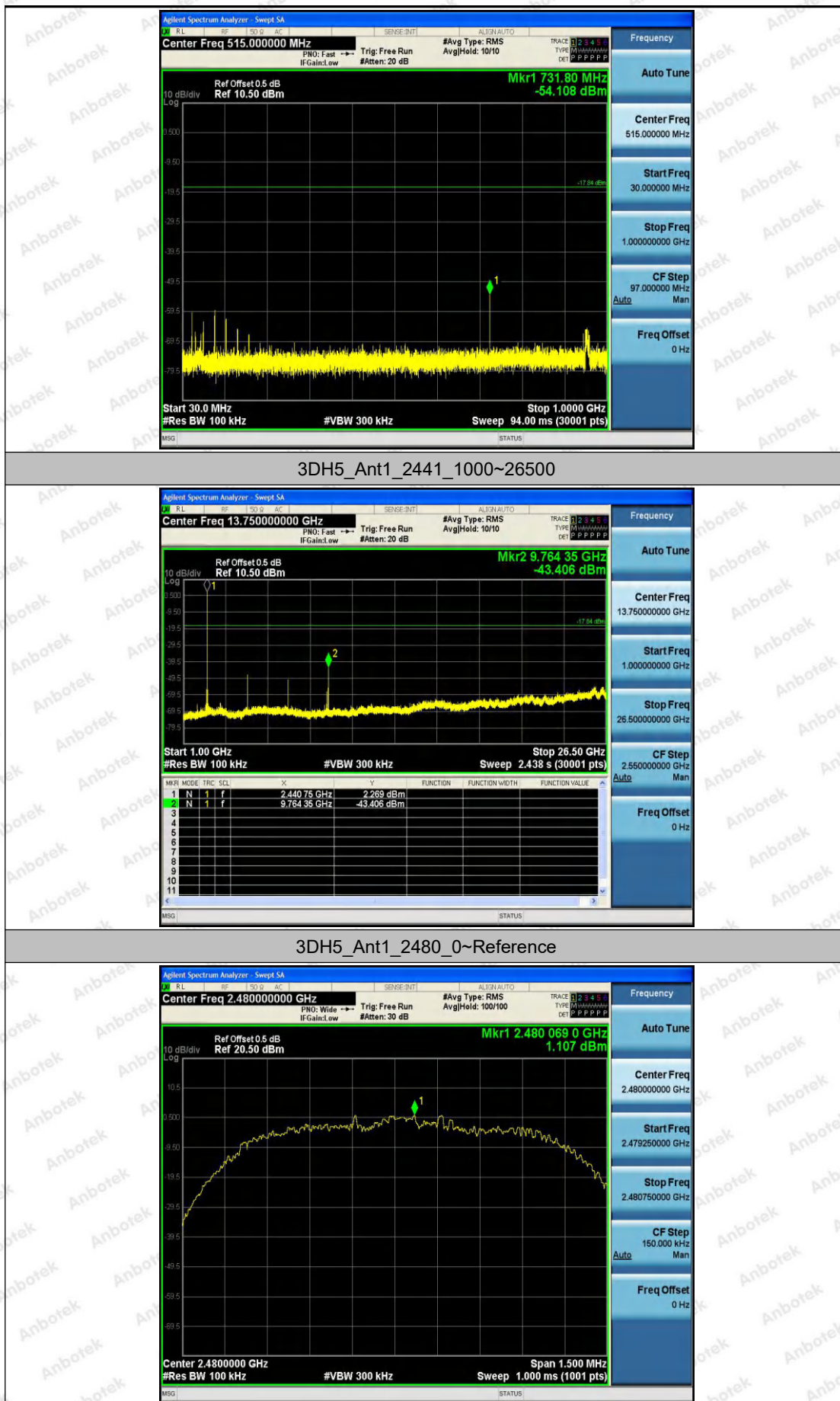
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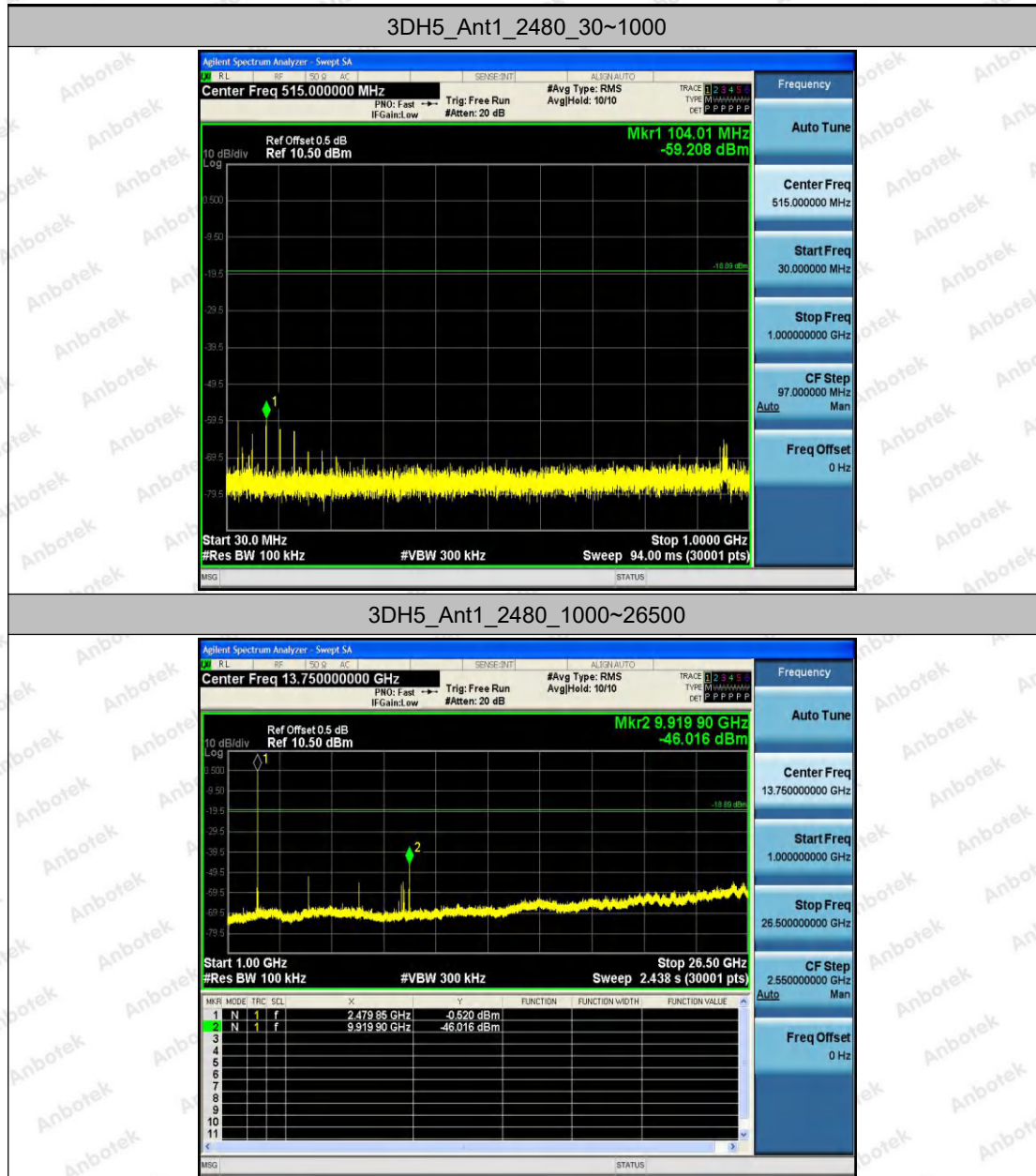


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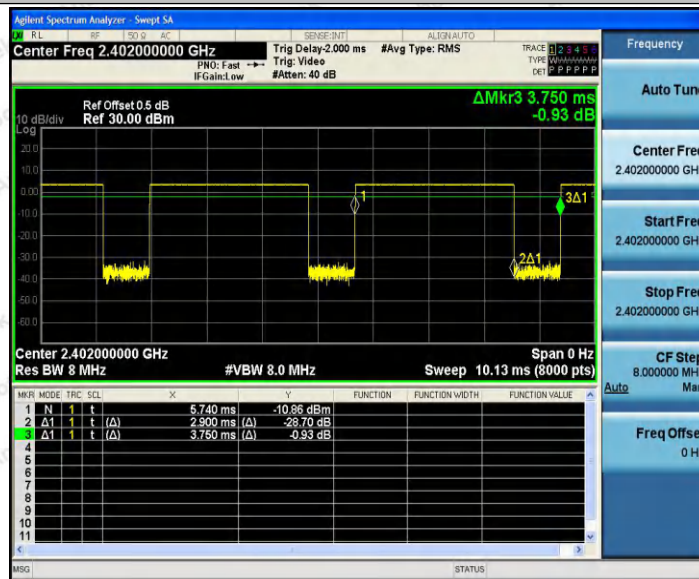
Appendix I: Duty Cycle

Test Result

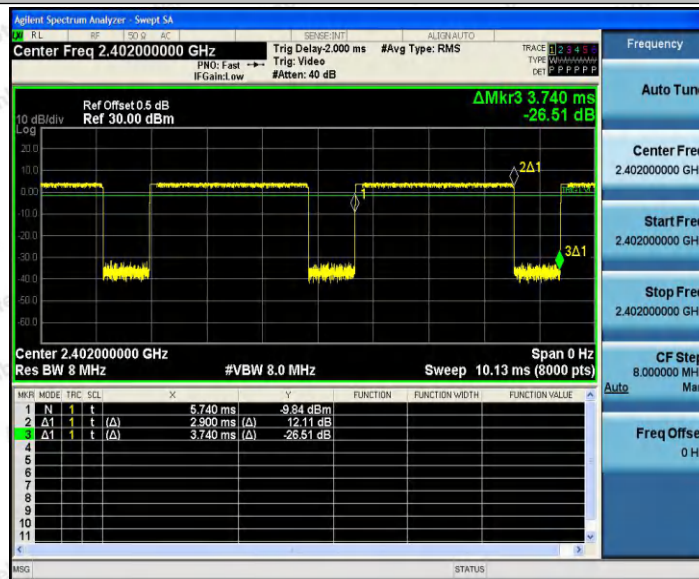
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.90	3.74	0.775 4	77.54	1.10	---	PASS
3DH5	Ant1	2402	2.91	3.75	0.776 0	77.60	1.10	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



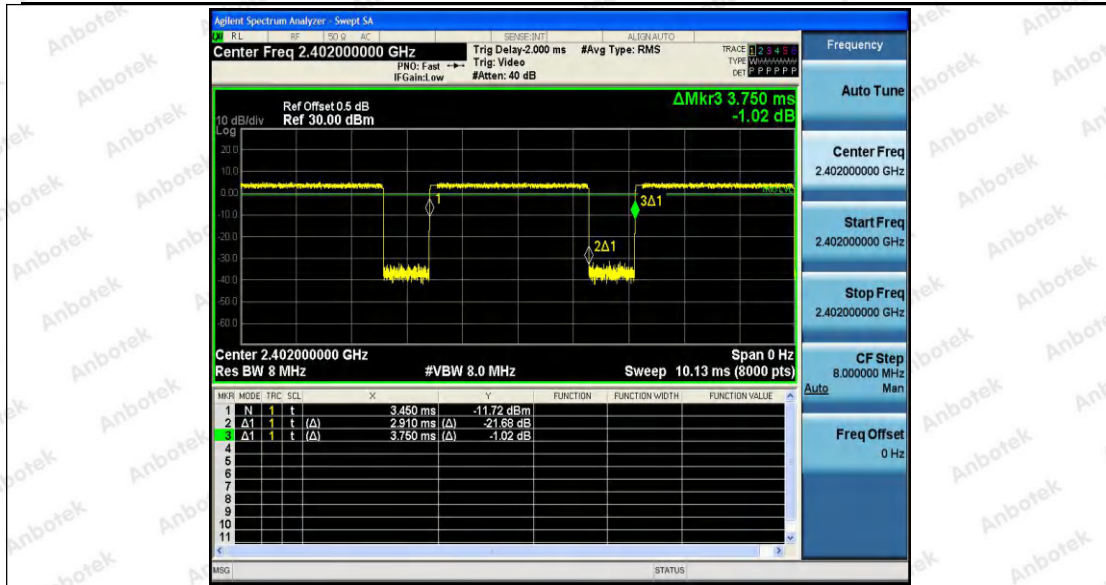
3DH5_Ant1_2402

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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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