

Appendix Test Data

Report No.:	18220WC20048701	Test Sample No.:	1-2-2
Start Test Date:	2022.3.17	Finish Test Date:	2022.3.22
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

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.535	2402.483	---	PASS
		2441	0.939	2440.535	2441.474	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.323	2401.340	2402.663	---	PASS
		2441	1.266	2440.370	2441.636	---	PASS
		2480	1.272	2479.364	2480.636	---	PASS
3DH5	Ant1	2402	1.329	2401.334	2402.663	---	PASS
		2441	1.305	2440.346	2441.651	---	PASS
		2480	1.299	2479.349	2480.648	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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

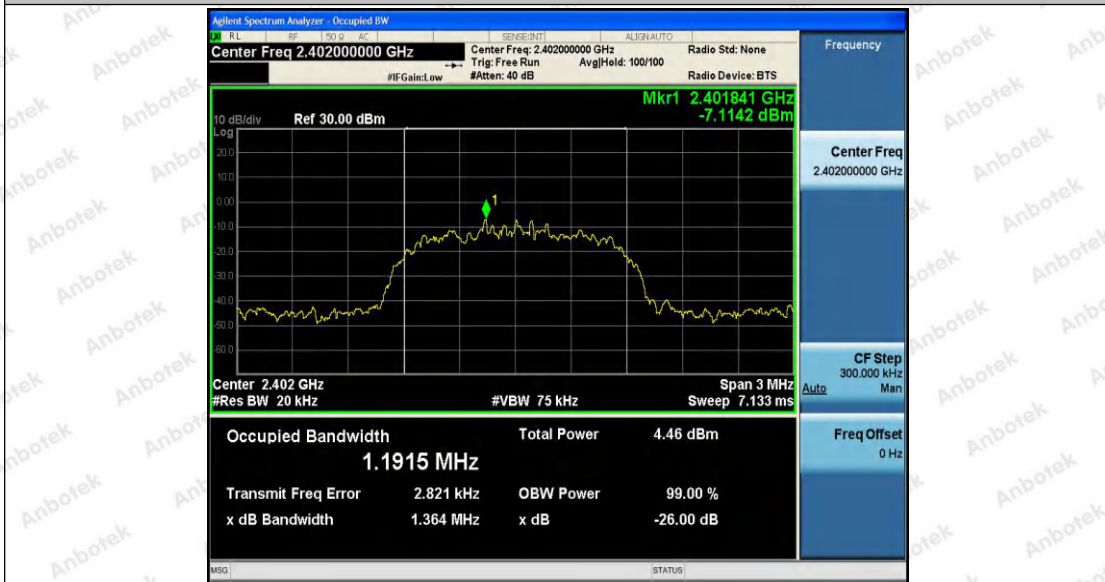
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89385	2401.55 4	2402.448	---	PASS
		2441	0.89144	2440.55 2	2441.444	---	PASS
		2480	0.89149	2479.55 2	2480.443	---	PASS
2DH5	Ant1	2402	1.1915	2401.40 7	2402.599	---	PASS
		2441	1.1949	2440.40 5	2441.600	---	PASS
		2480	1.1923	2479.40 5	2480.597	---	PASS
3DH5	Ant1	2402	1.2041	2401.39 1	2402.595	---	PASS
		2441	1.2130	2440.38 6	2441.599	---	PASS
		2480	1.1992	2479.39 5	2480.595	---	PASS

Test Graphs

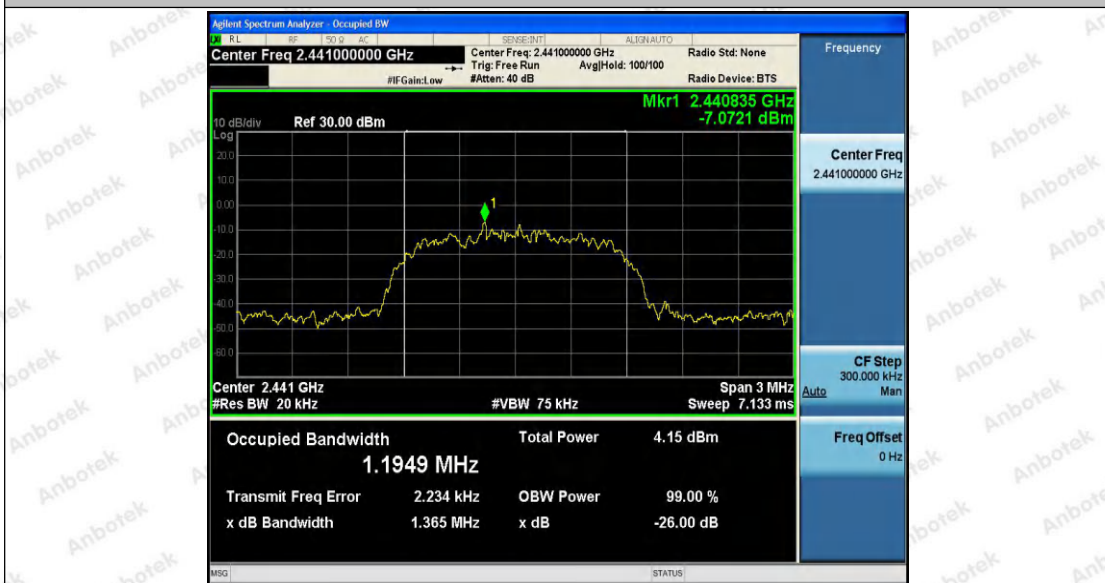




2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.06	≤20.97	PASS
		2441	-0.2	≤20.97	PASS
		2480	0.47	≤20.97	PASS
2DH5	Ant1	2402	-0.8	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-0.43	≤20.97	PASS
3DH5	Ant1	2402	-0.42	≤20.97	PASS
		2441	-0.64	≤20.97	PASS
		2480	-0.02	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

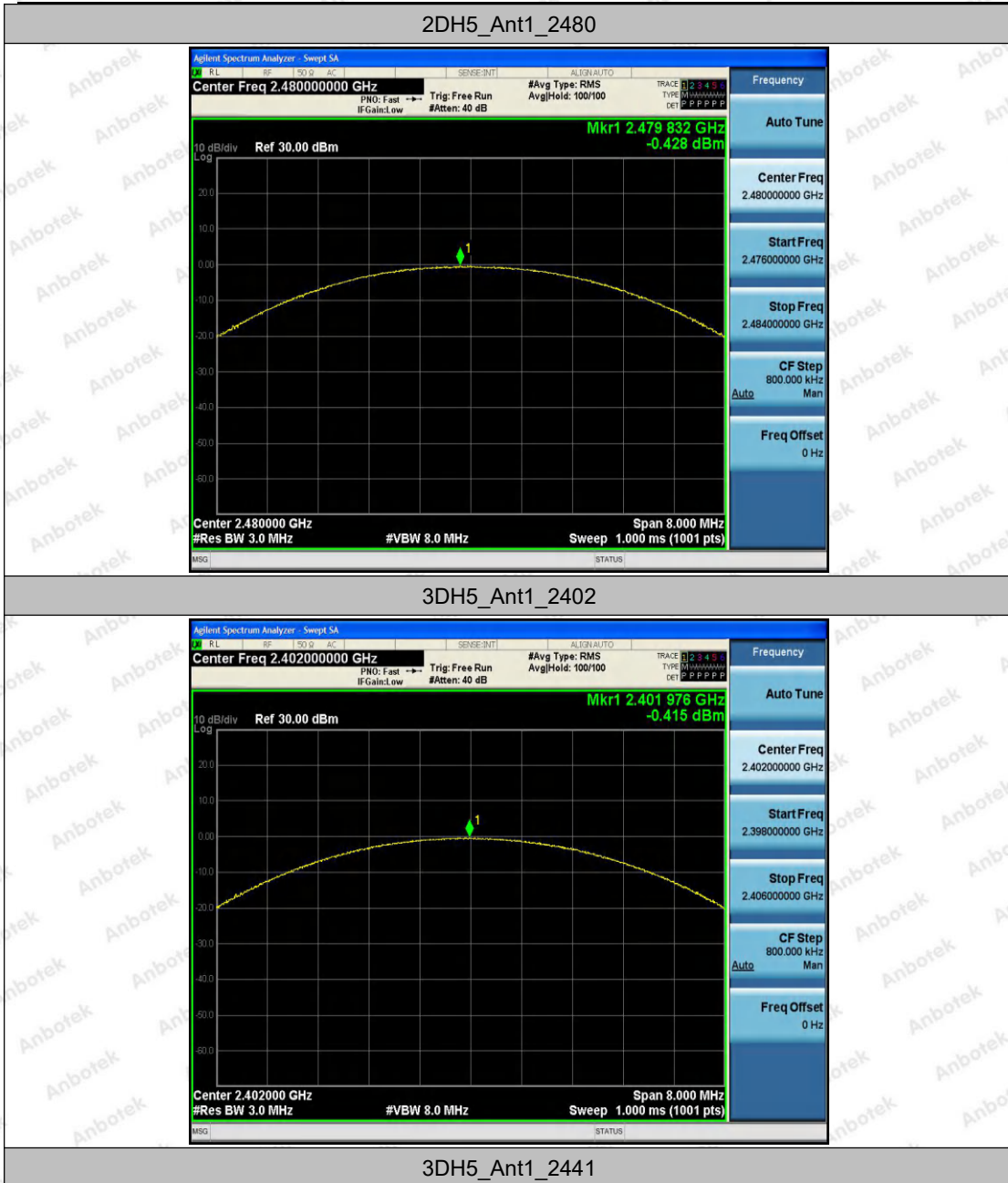


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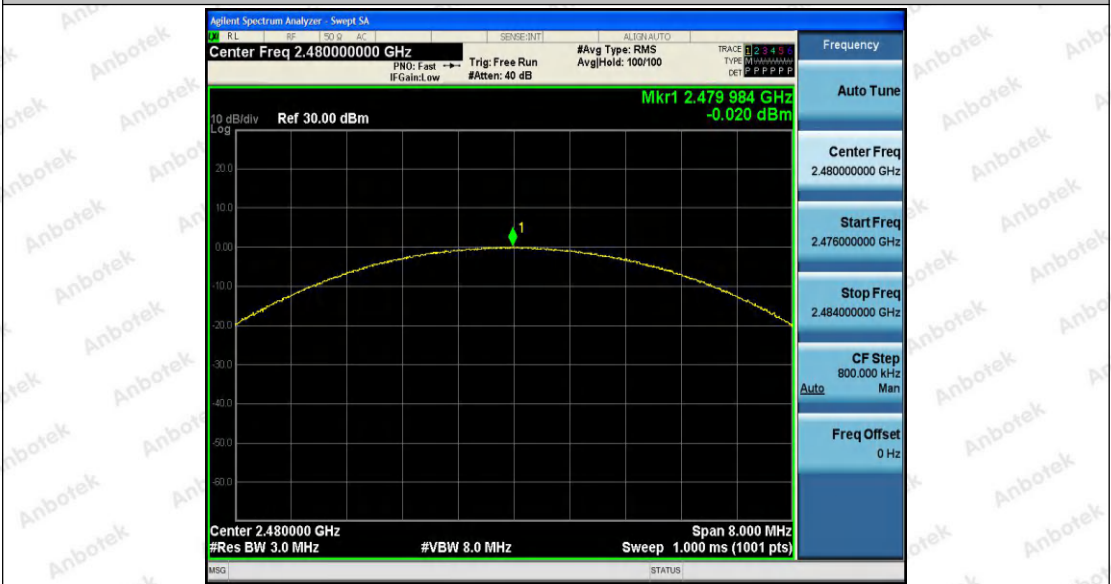
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.178	≥0.948	PASS
2DH5	Ant1	Hop	0.888	≥0.882	PASS
3DH5	Ant1	Hop	0.998	≥0.886	PASS

Test Graphs





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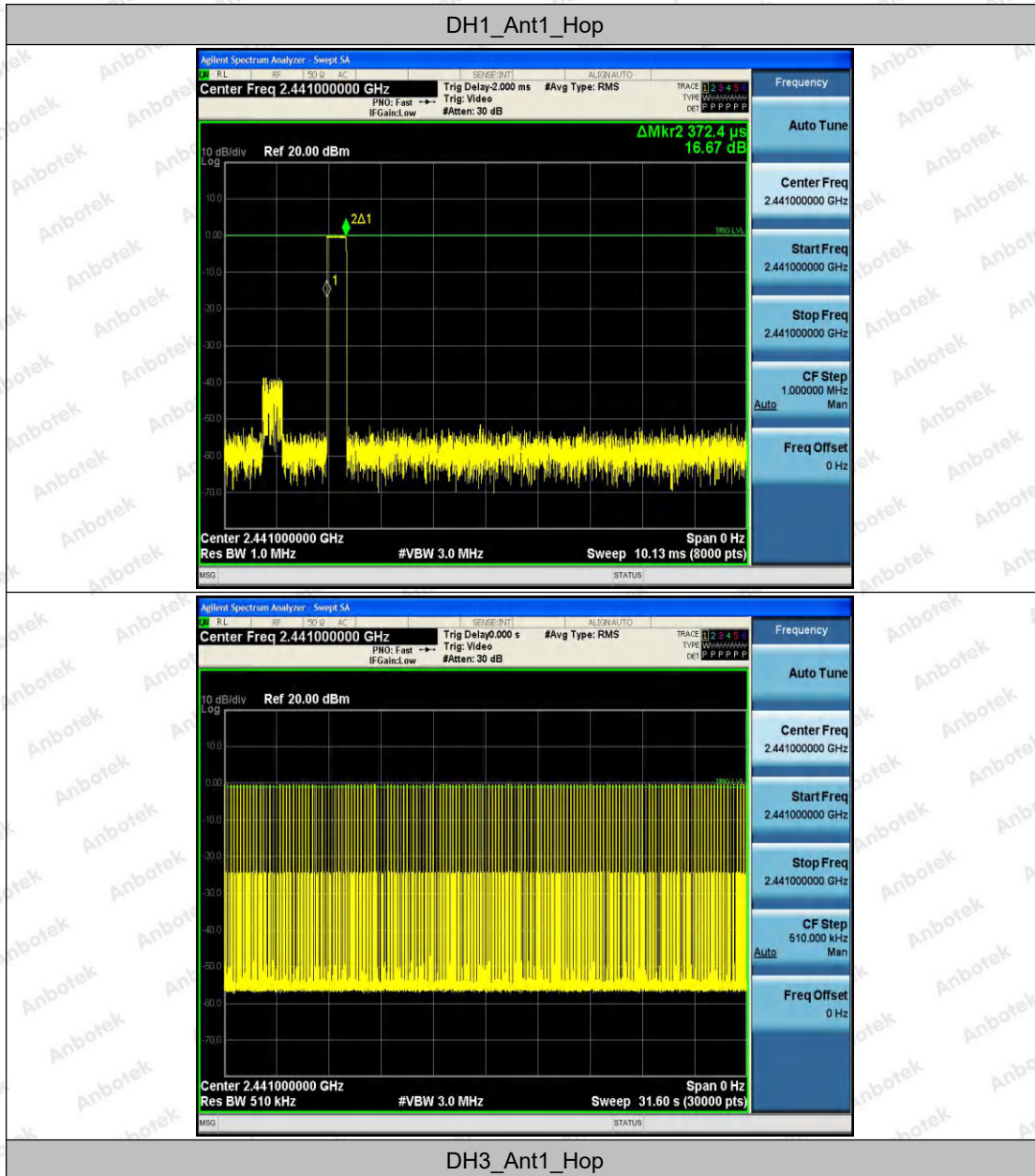
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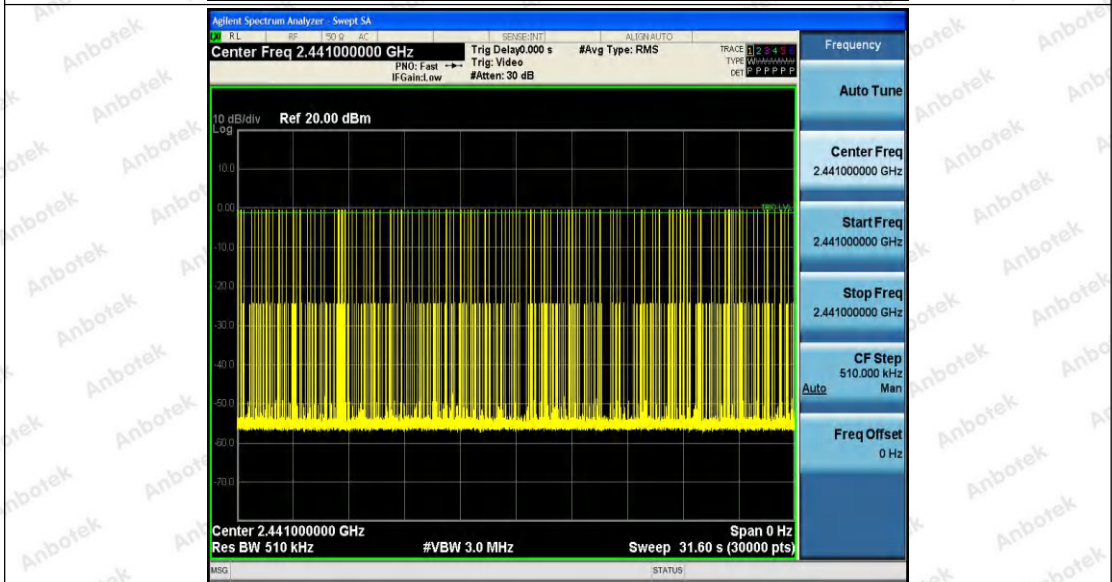
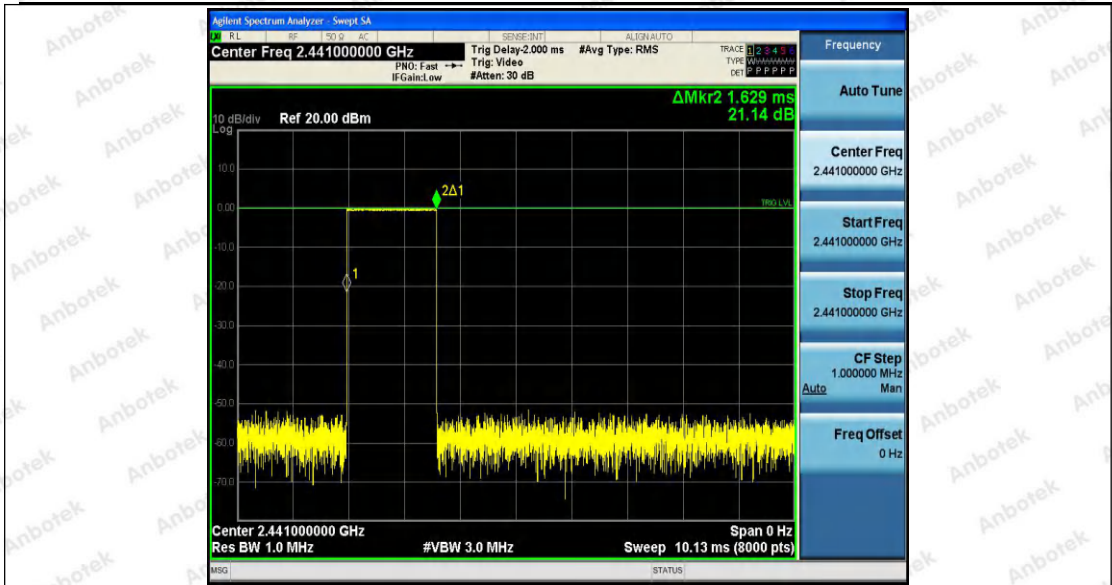
Appendix E: Time of occupancy

Test Result

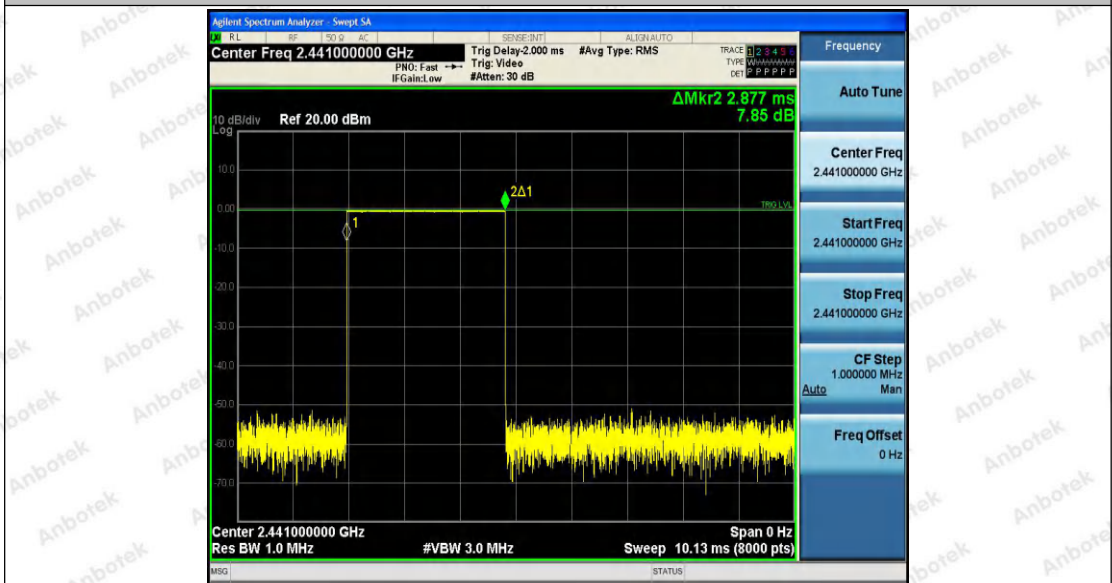
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤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	108	0.311	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

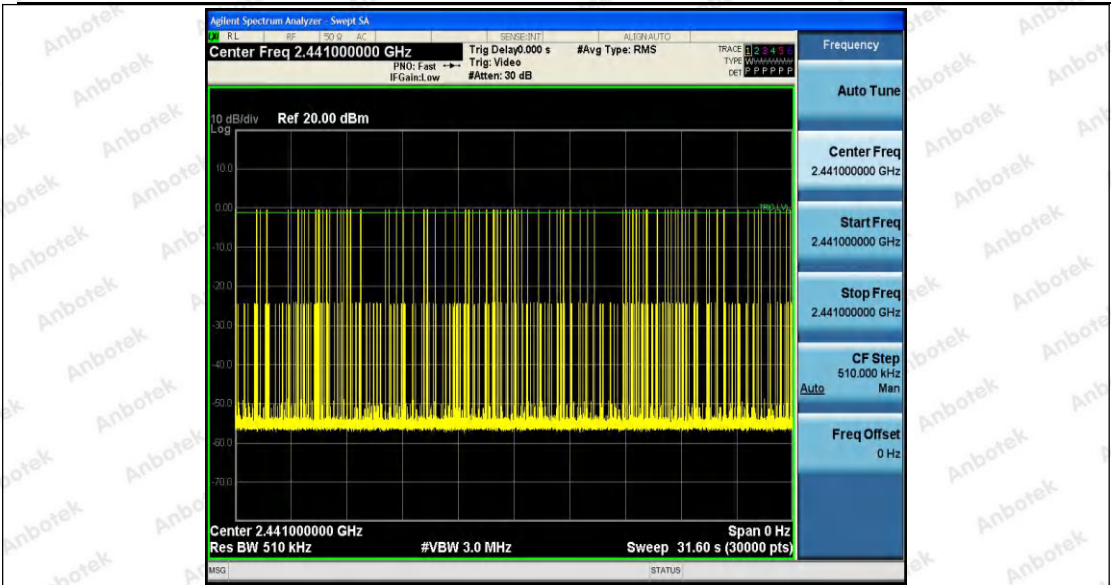


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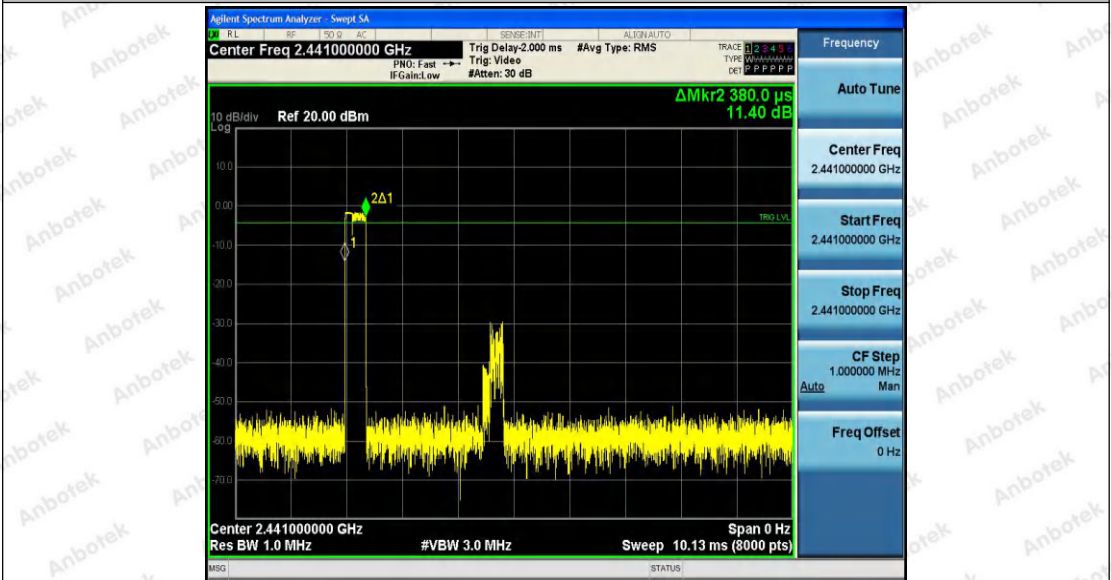
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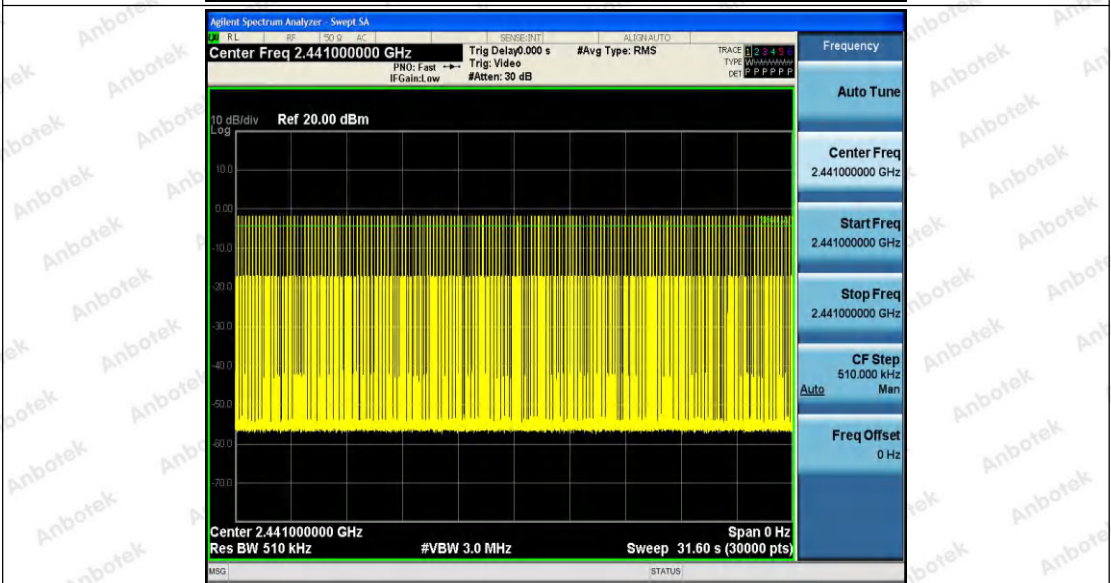
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2DH1_Ant1_Hop



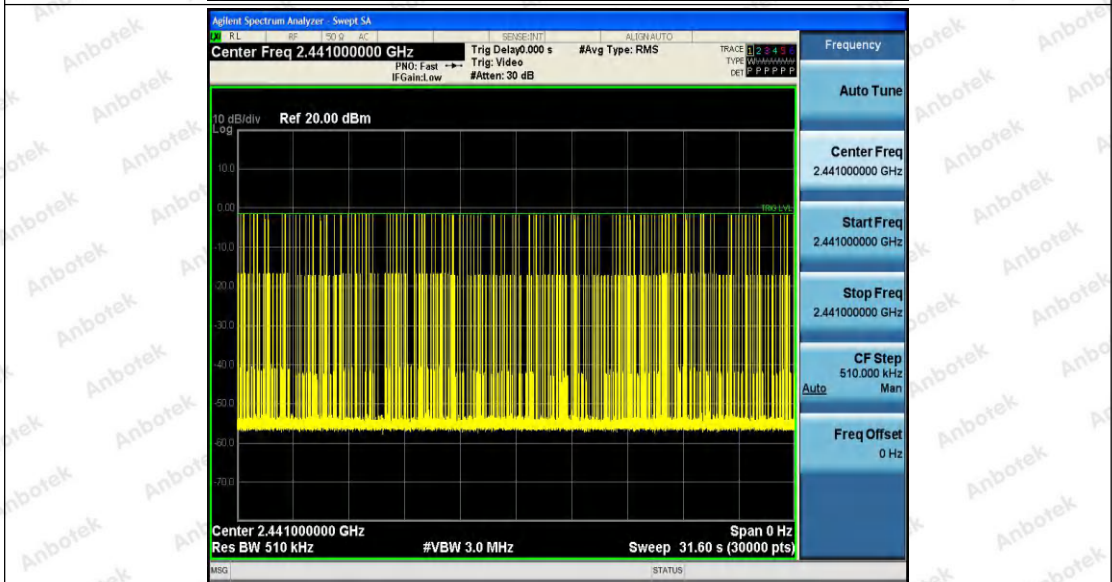
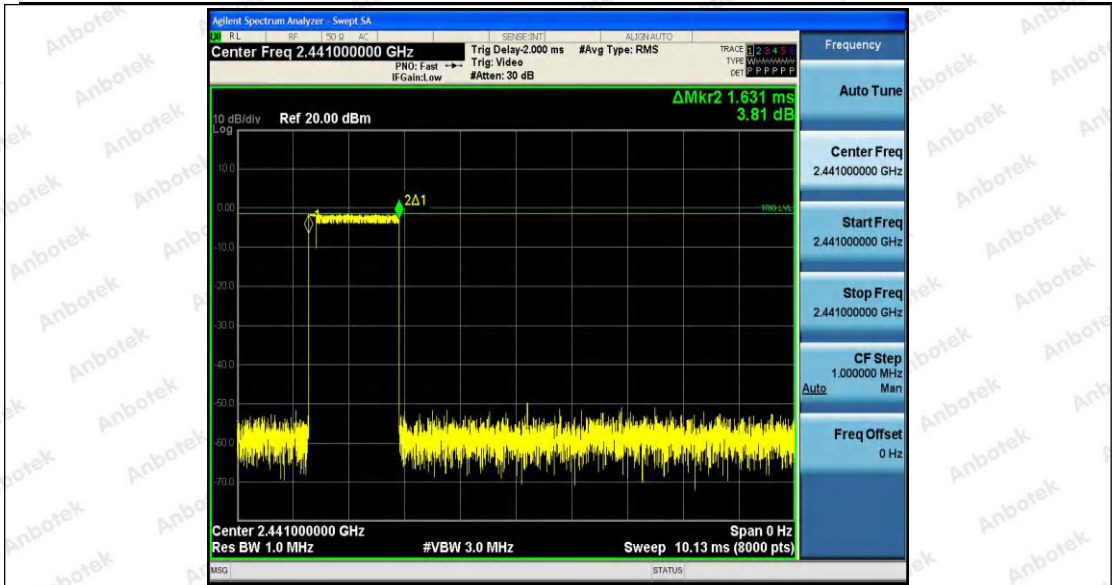
2DH3_Ant1_Hop



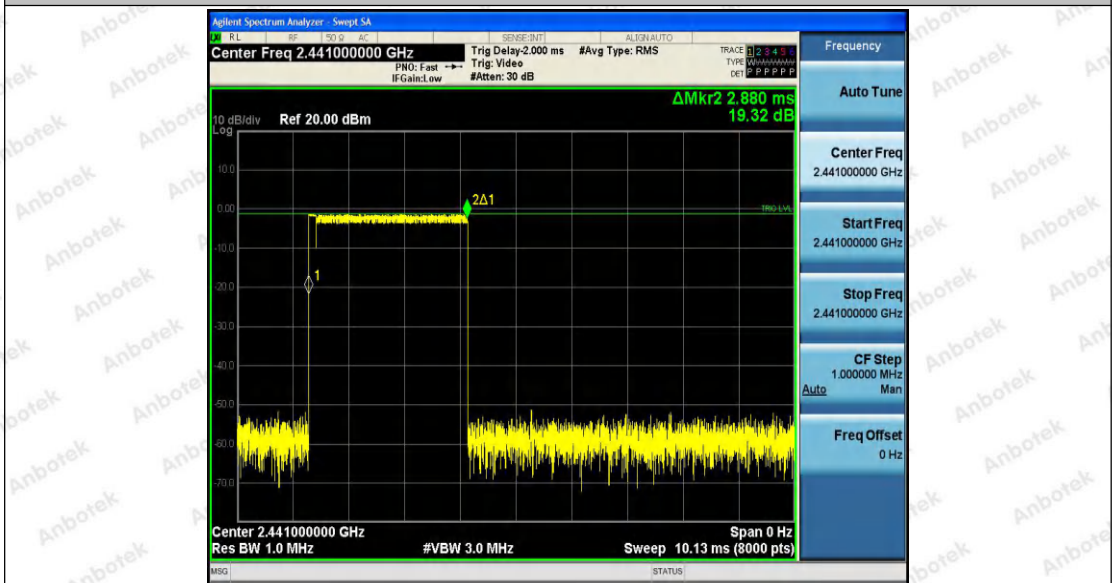
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2DH5_Ant1_Hop

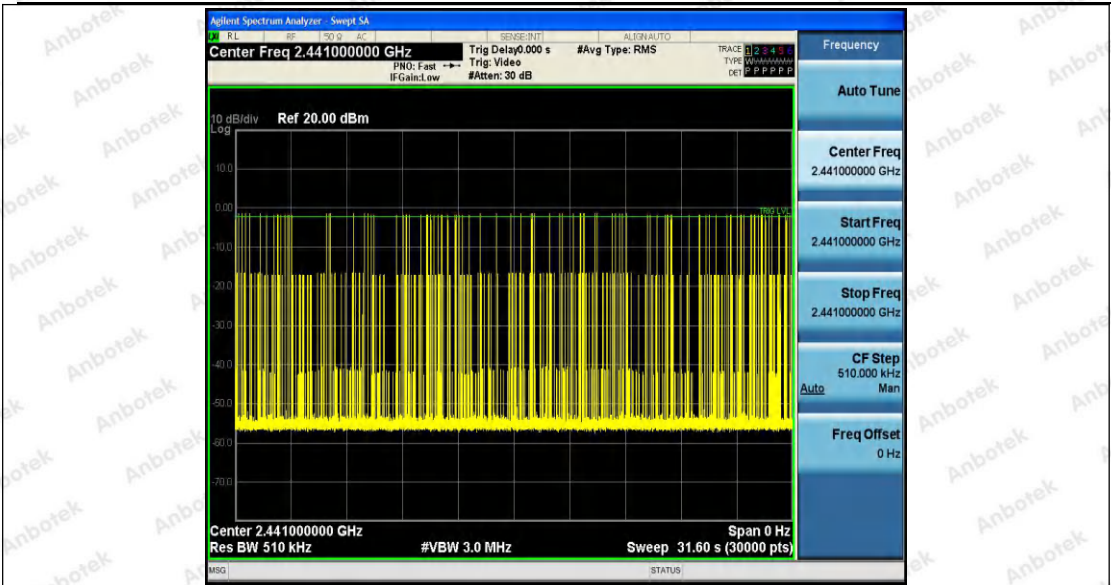


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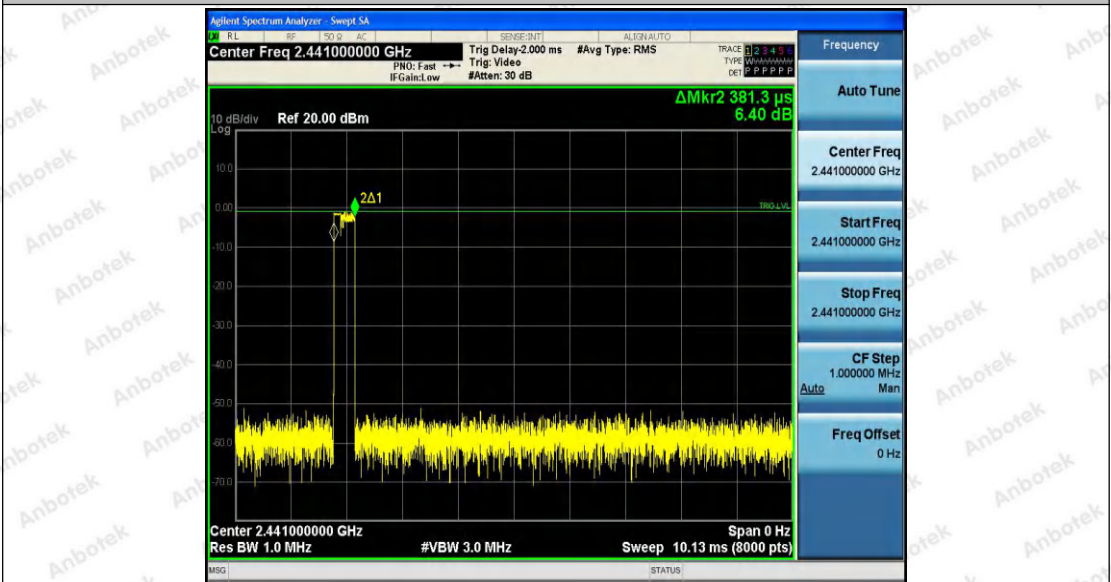
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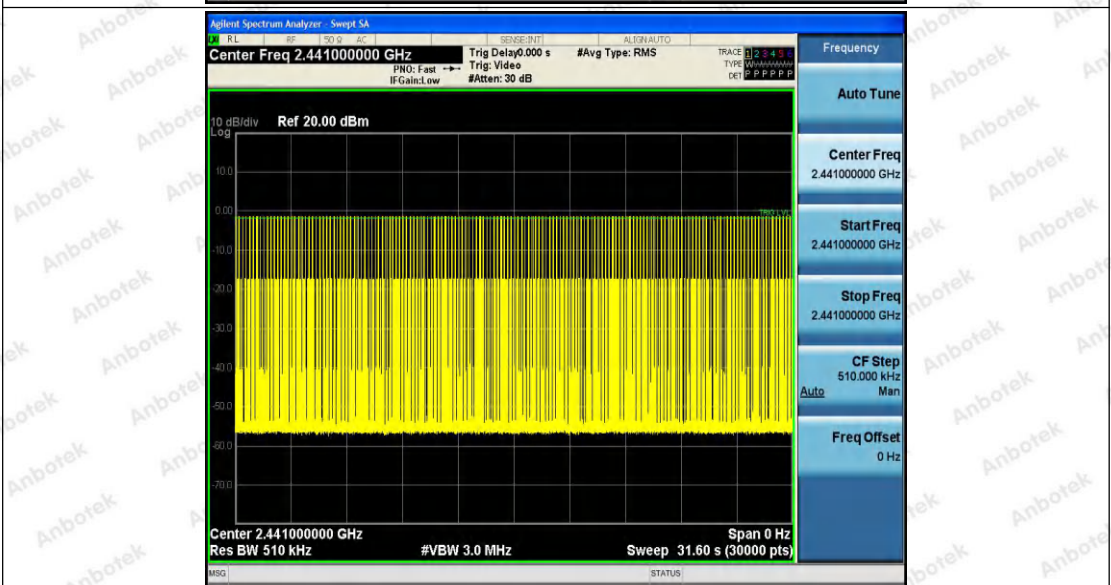
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



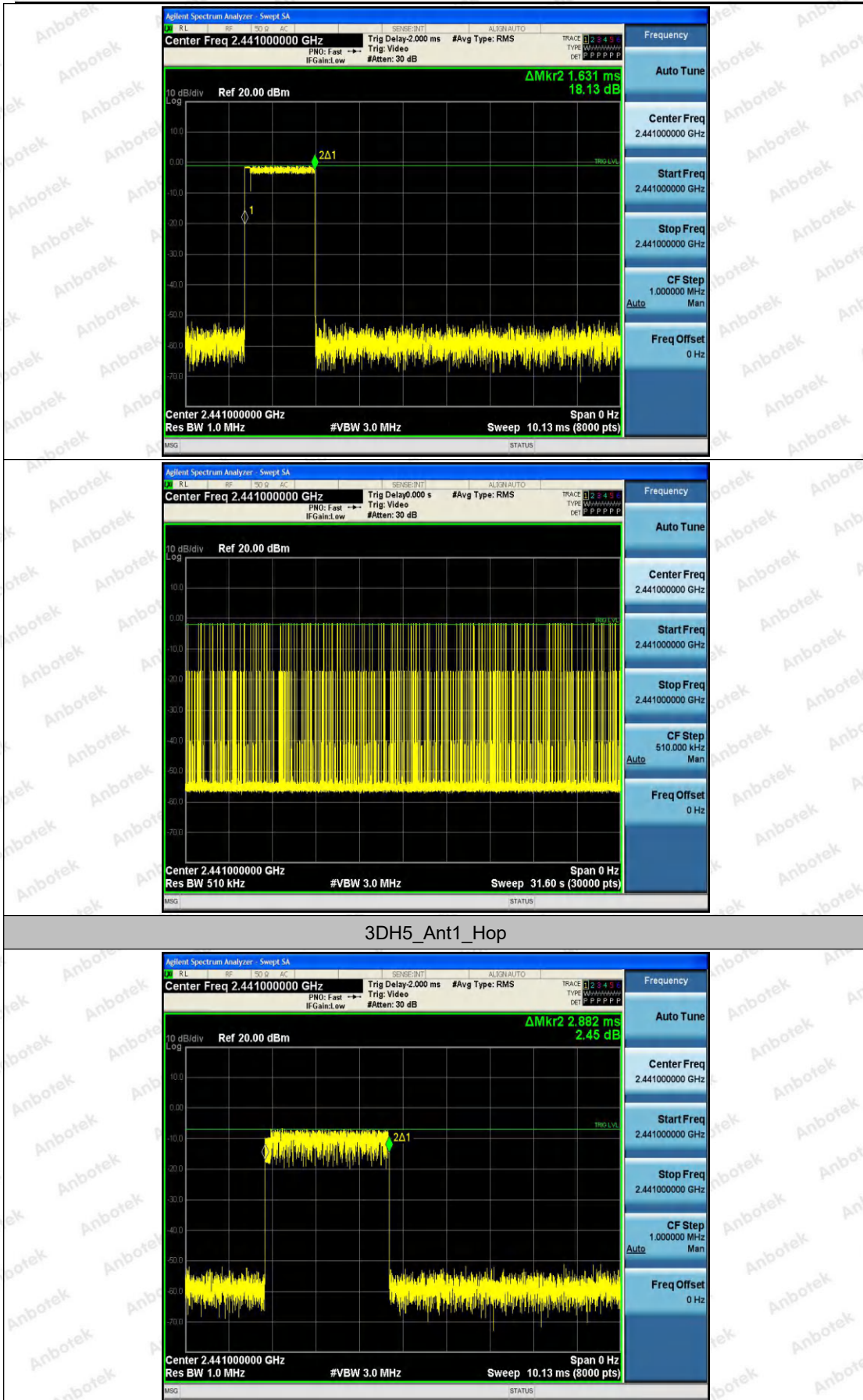
3DH3_Ant1_Hop

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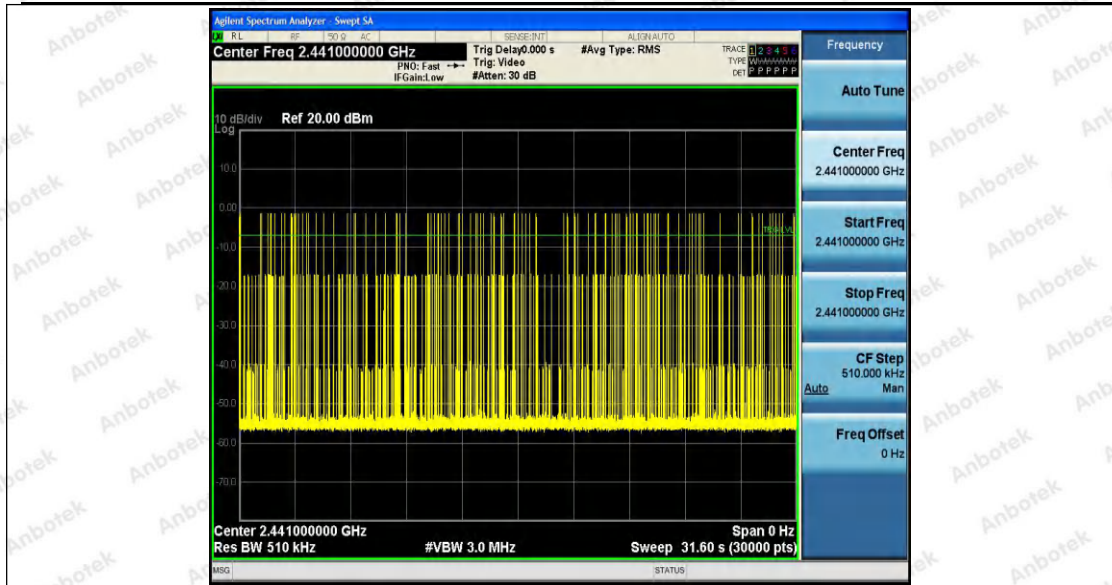
3DH5_Ant1_Hop

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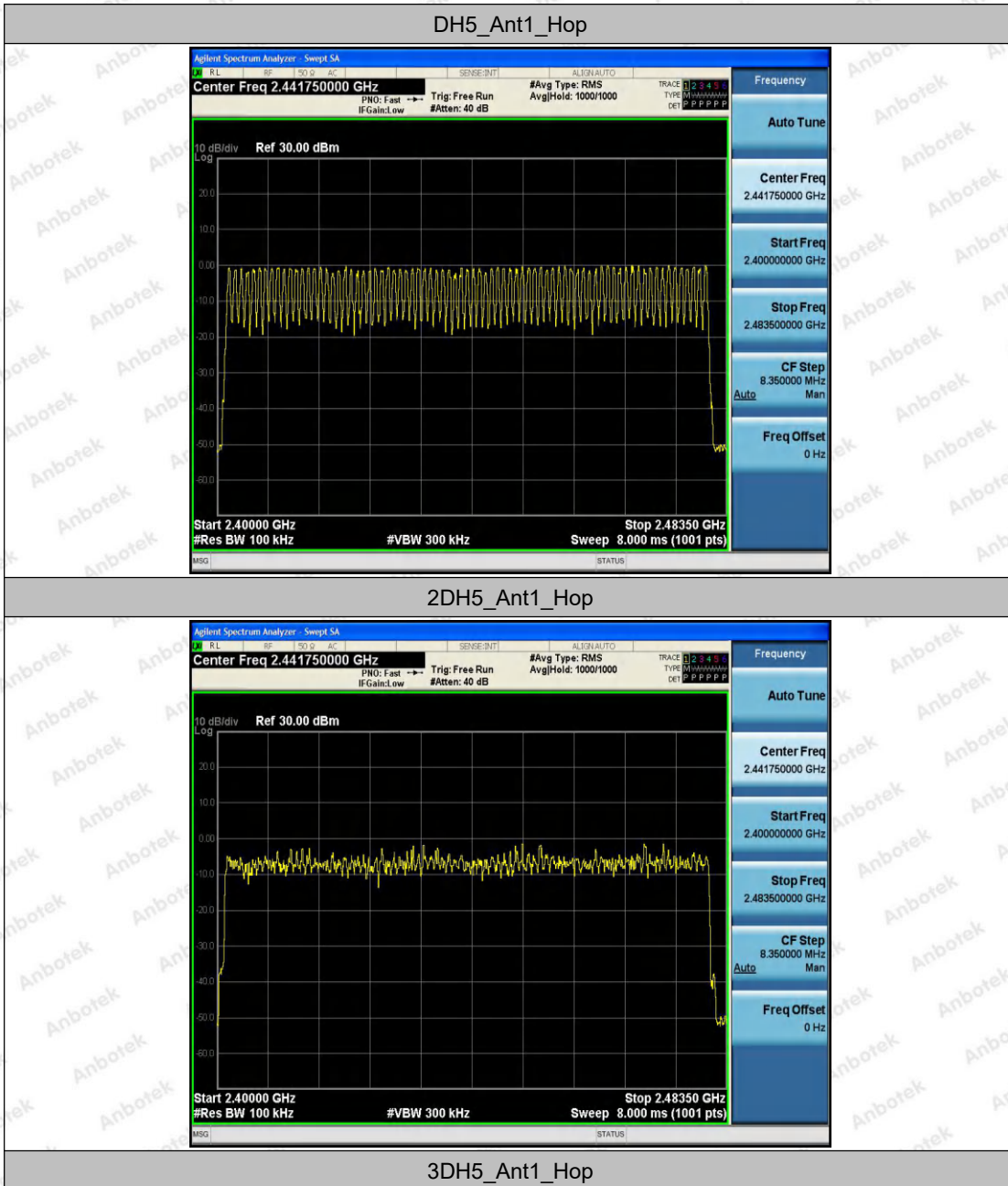
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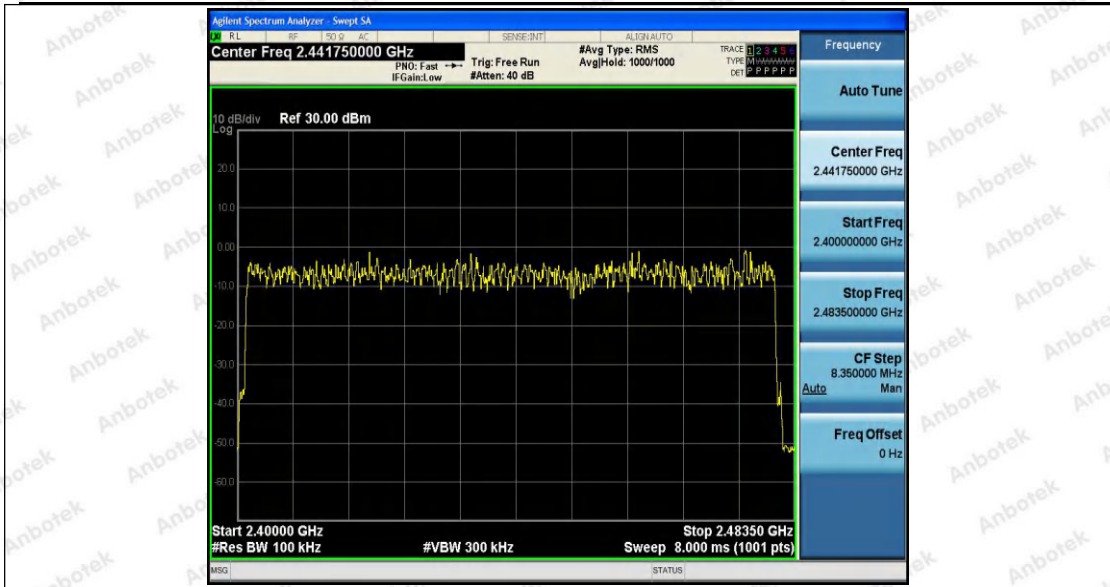
Appendix F: Number of hopping channels

Test Result

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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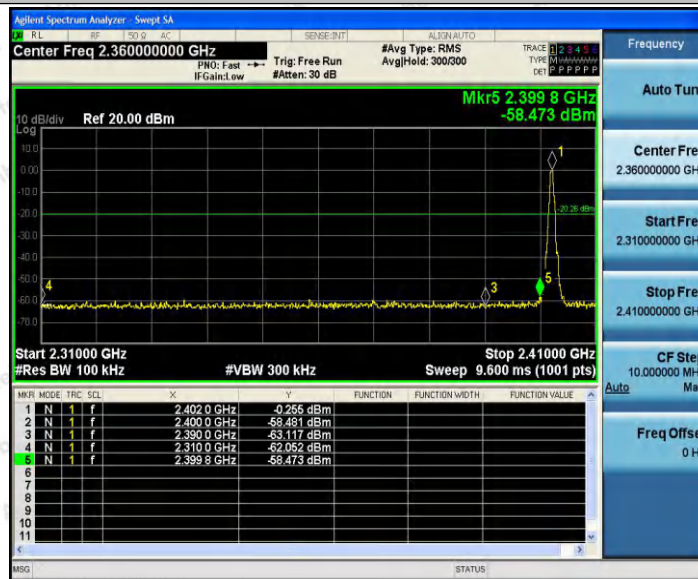
Appendix G: Band edge measurements

Test Result

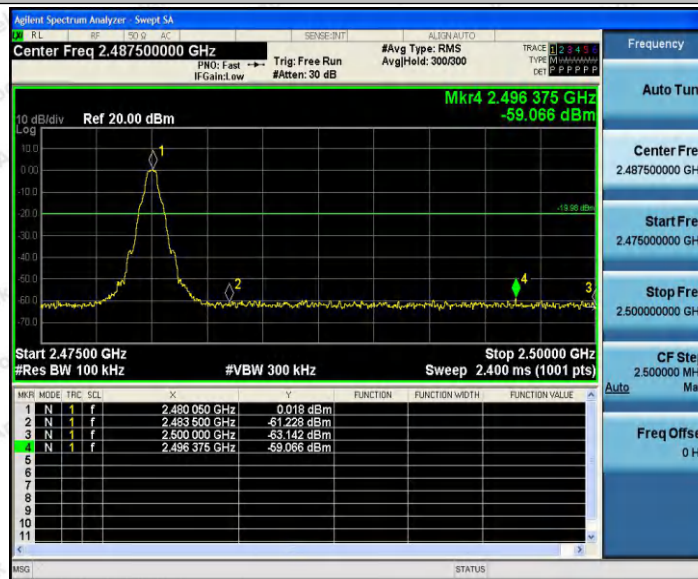
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.26	-58.47	≤-20.26	PASS
		High	2480	0.02	-59.07	≤-19.98	PASS
		Low	Hop	-0.67	-58.35	≤-20.67	PASS
		High	Hop	-0.02	-62.32	≤-20.02	PASS
2DH5	Ant1	Low	2402	-1.65	-57.38	≤-21.65	PASS
		High	2480	-1.15	-59.59	≤-21.15	PASS
		Low	Hop	-2.12	-59.82	≤-22.12	PASS
		High	Hop	-1.59	-62.01	≤-21.59	PASS
3DH5	Ant1	Low	2402	-1.71	-56.94	≤-21.71	PASS
		High	2480	-2.08	-59.56	≤-22.08	PASS
		Low	Hop	-4.67	-59.9	≤-24.67	PASS
		High	Hop	-4.38	-62.36	≤-24.38	PASS

Test Graphs

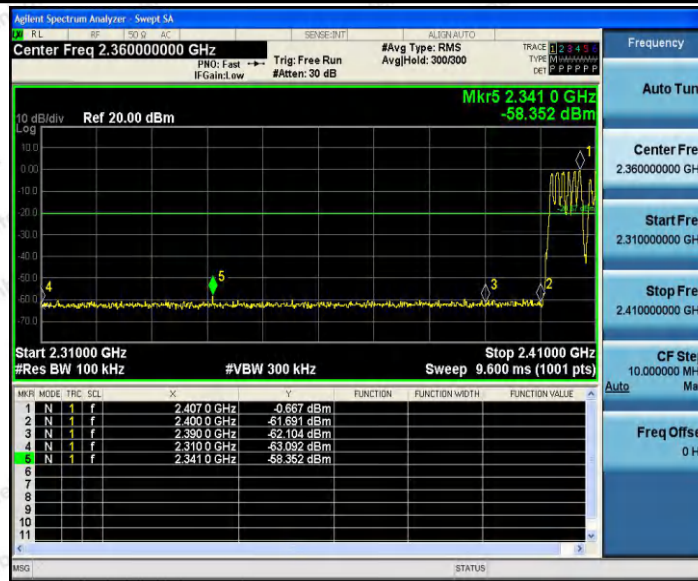
DH5_Ant1_Low_2402



DH5_Ant1_High_2480



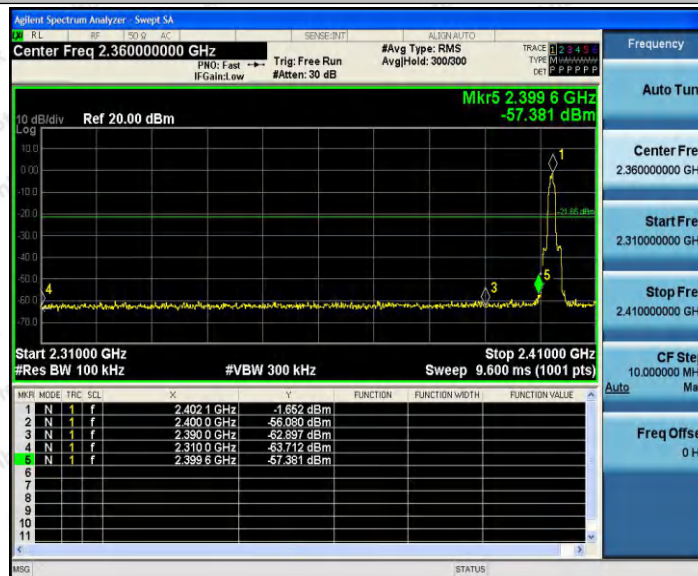
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

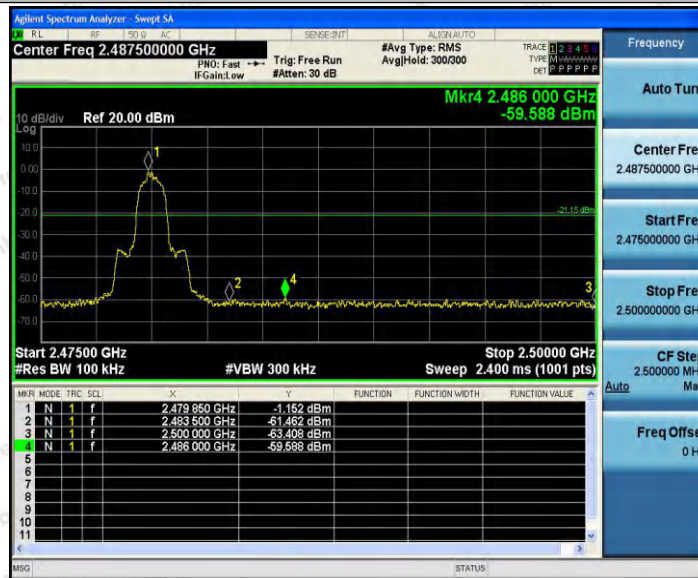


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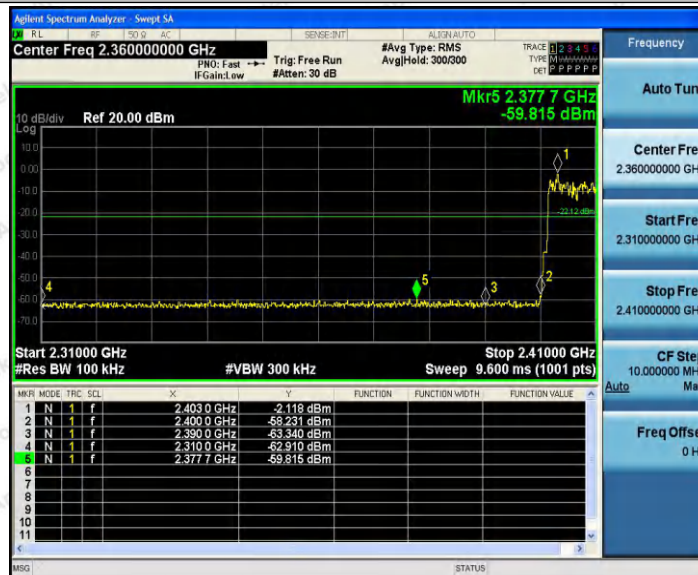
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



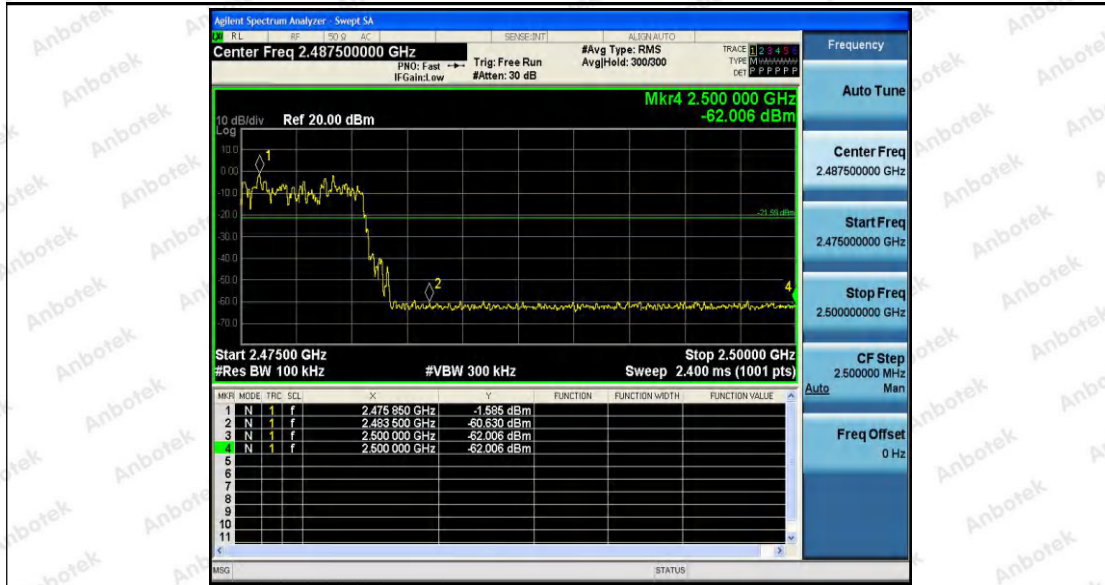
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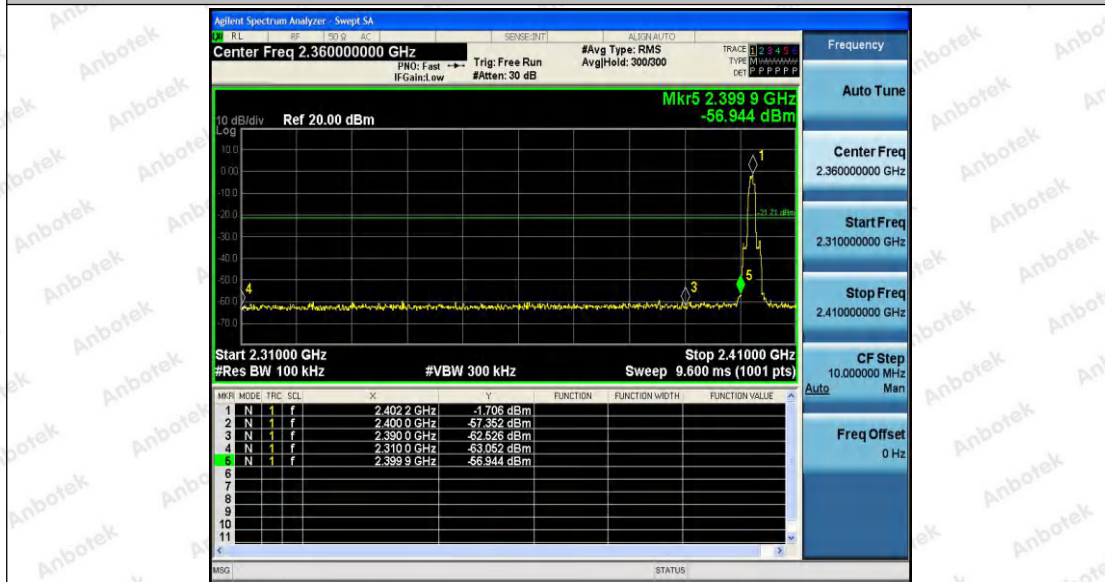
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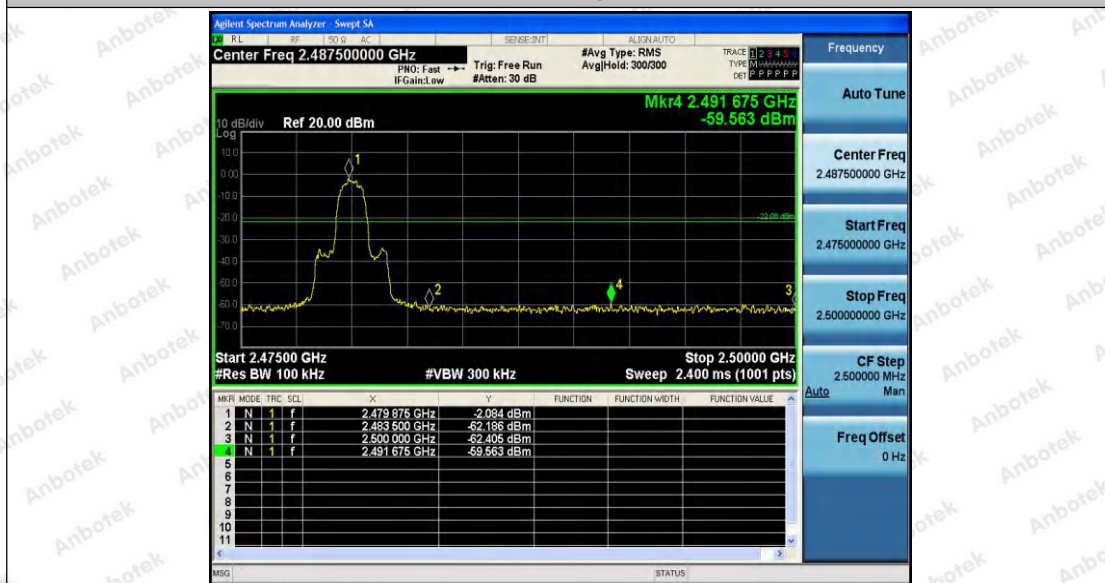
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



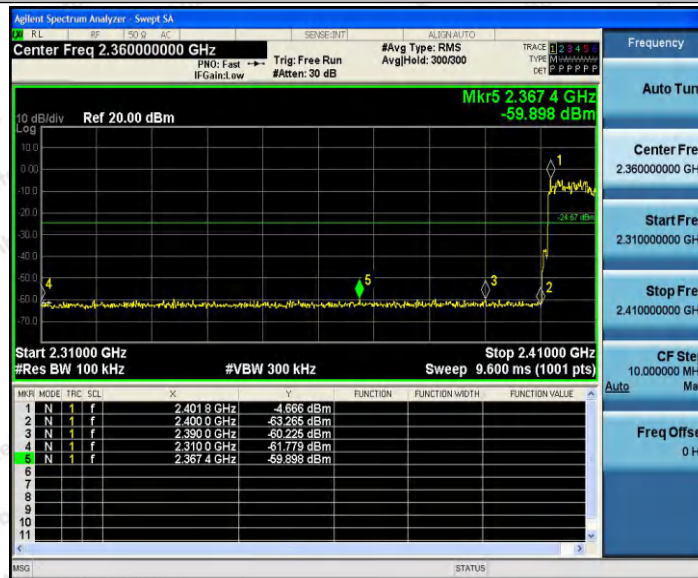
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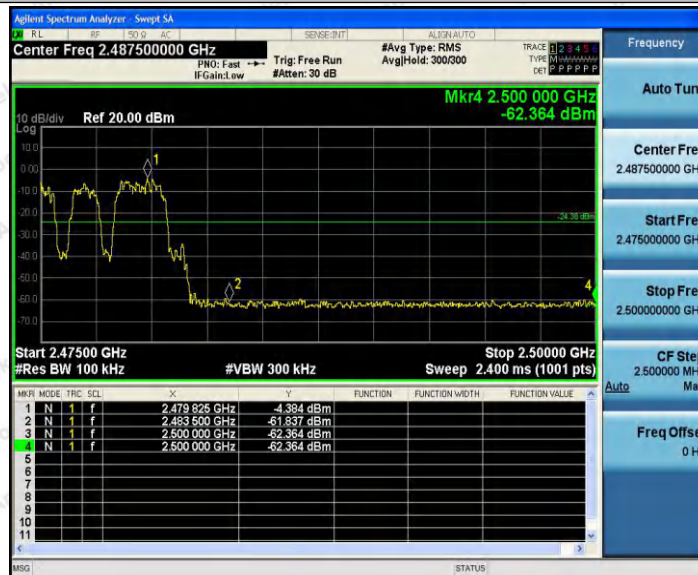
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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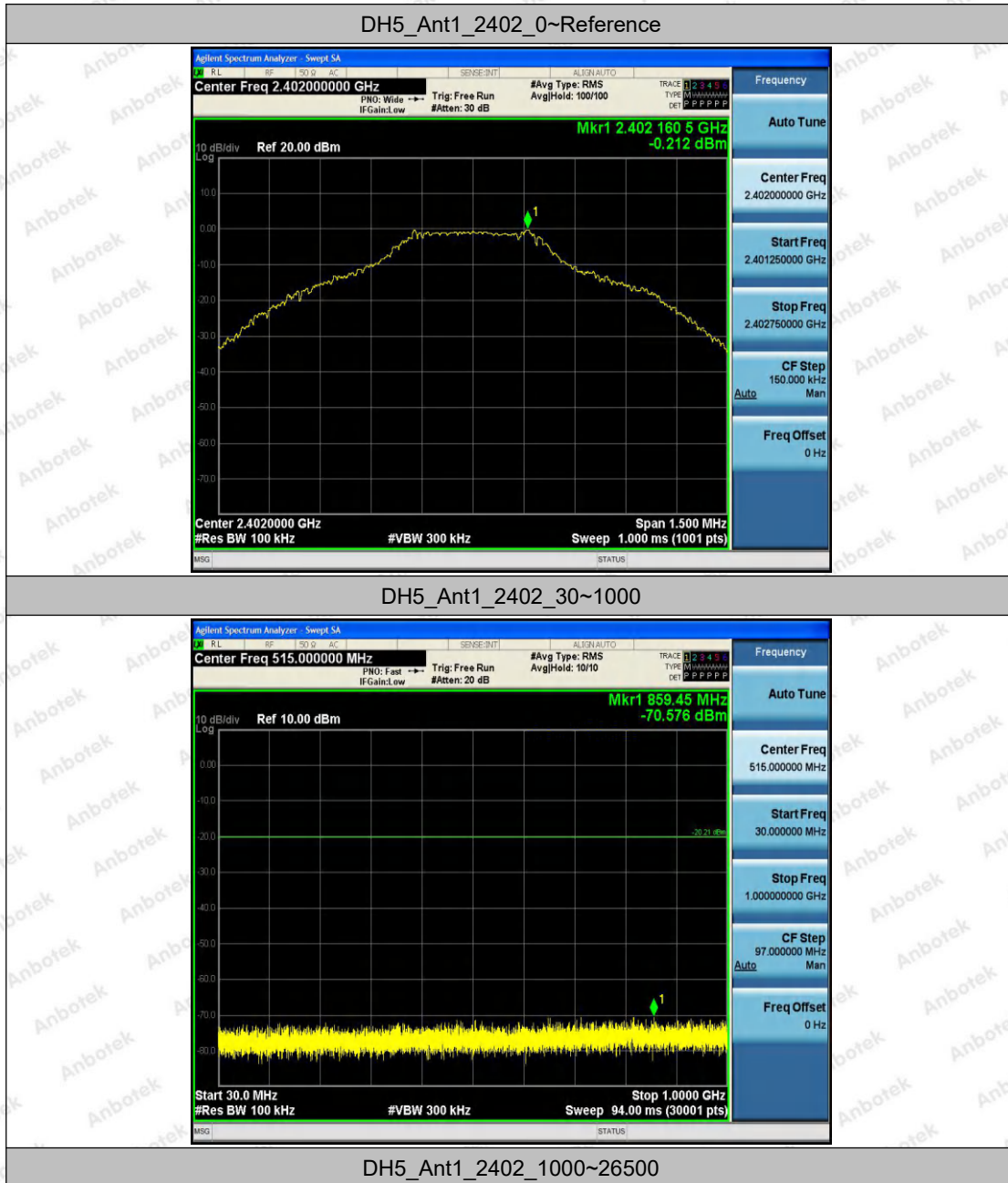
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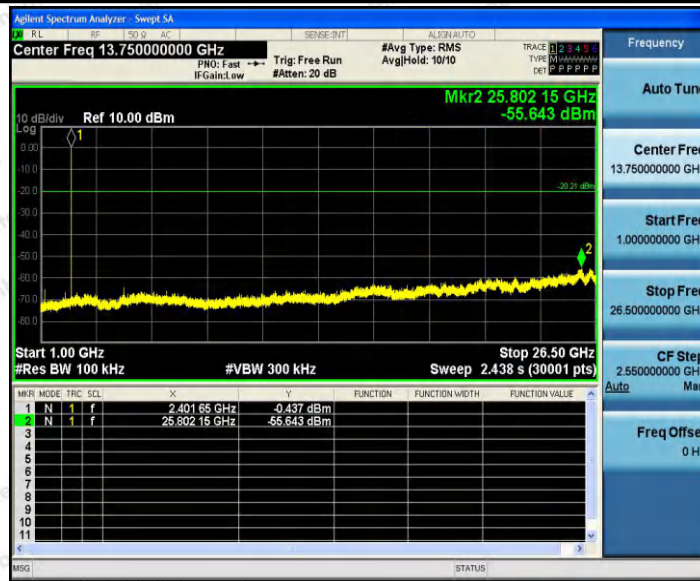
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-70.58	≤-20.21	PASS
			1000~26500	-0.21	-55.64	≤-20.21	PASS
		2441	Reference	-0.87	-0.87	---	PASS
			30~1000	-0.87	-70.59	≤-20.87	PASS
			1000~26500	-0.87	-55.69	≤-20.87	PASS
		2480	Reference	0.08	0.08	---	PASS
			30~1000	0.08	-69.72	≤-19.92	PASS
			1000~26500	0.08	-55.01	≤-19.92	PASS
2DH5	Ant1	2402	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-70.29	≤-22.27	PASS
			1000~26500	-2.27	-55.71	≤-22.27	PASS
		2441	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-69.76	≤-21.76	PASS
			1000~26500	-1.76	-55.29	≤-21.76	PASS
		2480	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-70.38	≤-21.92	PASS
			1000~26500	-1.92	-55.81	≤-21.92	PASS
3DH5	Ant1	2402	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-70.37	≤-21.55	PASS
			1000~26500	-1.55	-55.38	≤-21.55	PASS
		2441	Reference	-2.21	-2.21	---	PASS
			30~1000	-2.21	-70.71	≤-22.21	PASS
			1000~26500	-2.21	-54.4	≤-22.21	PASS
		2480	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-70.82	≤-21	PASS
			1000~26500	-1.00	-54.72	≤-21	PASS

Test Graphs

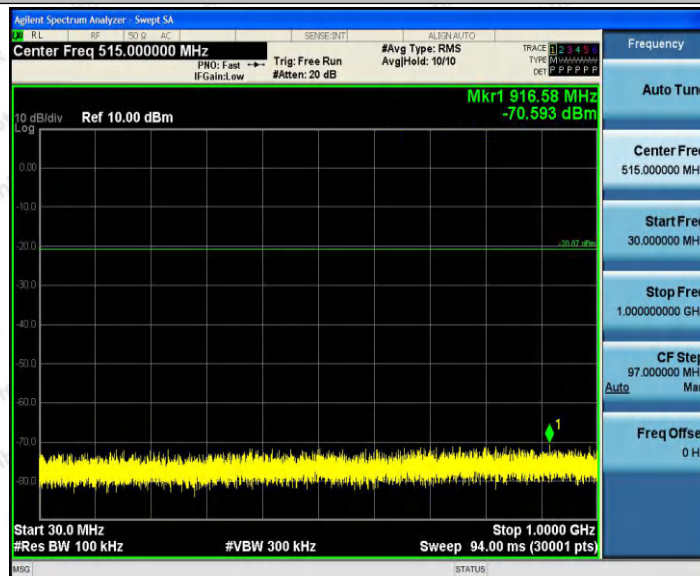




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

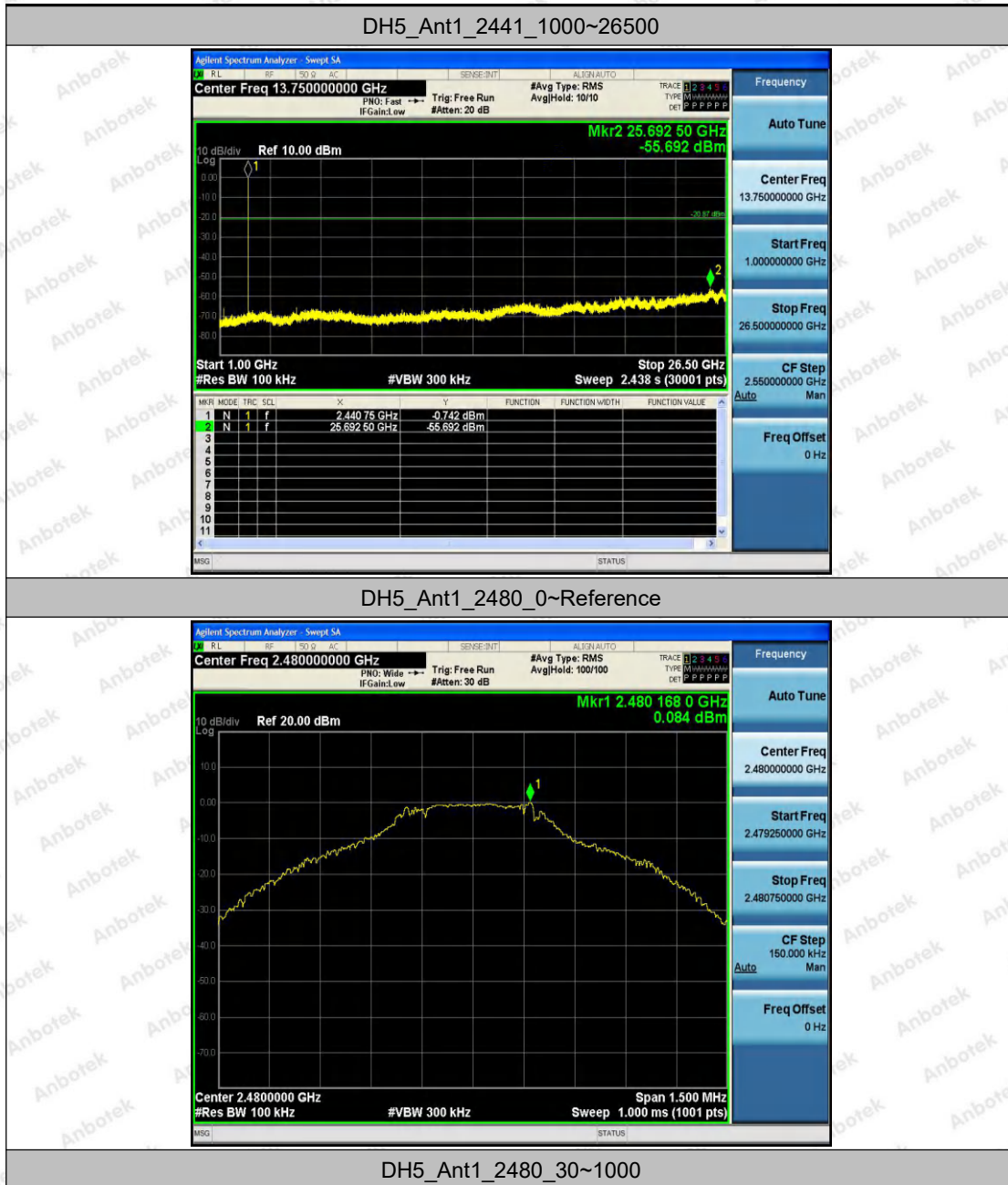


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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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Hotline
400-003-0500
www.anbotek.com

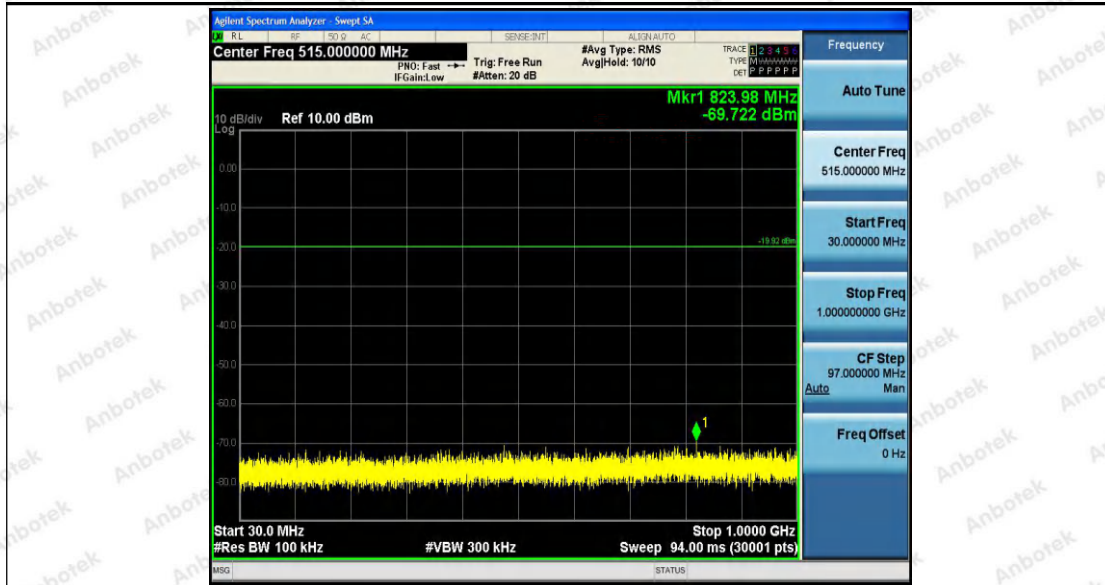


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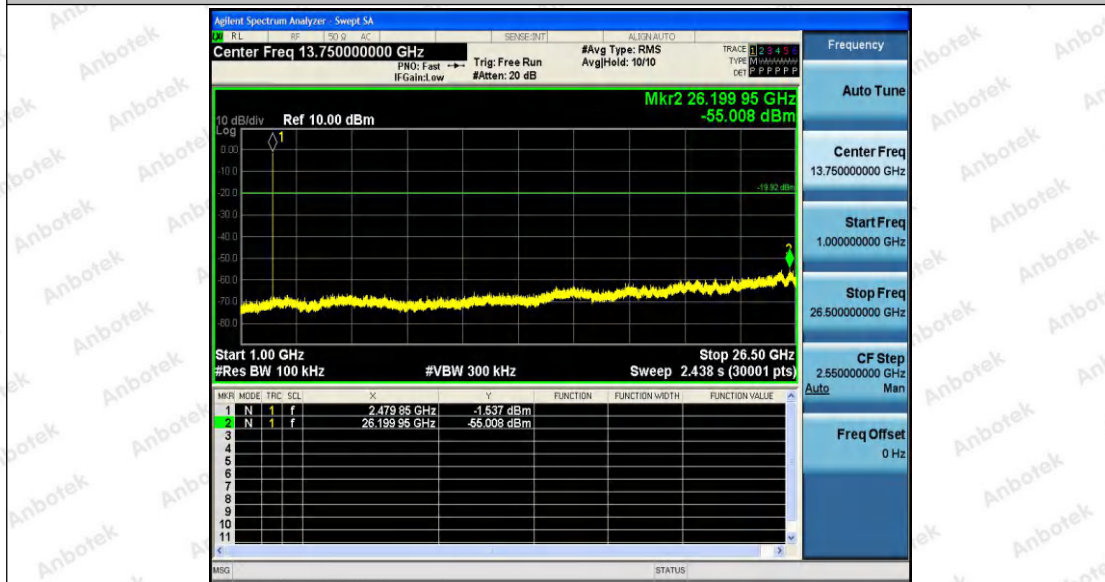
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

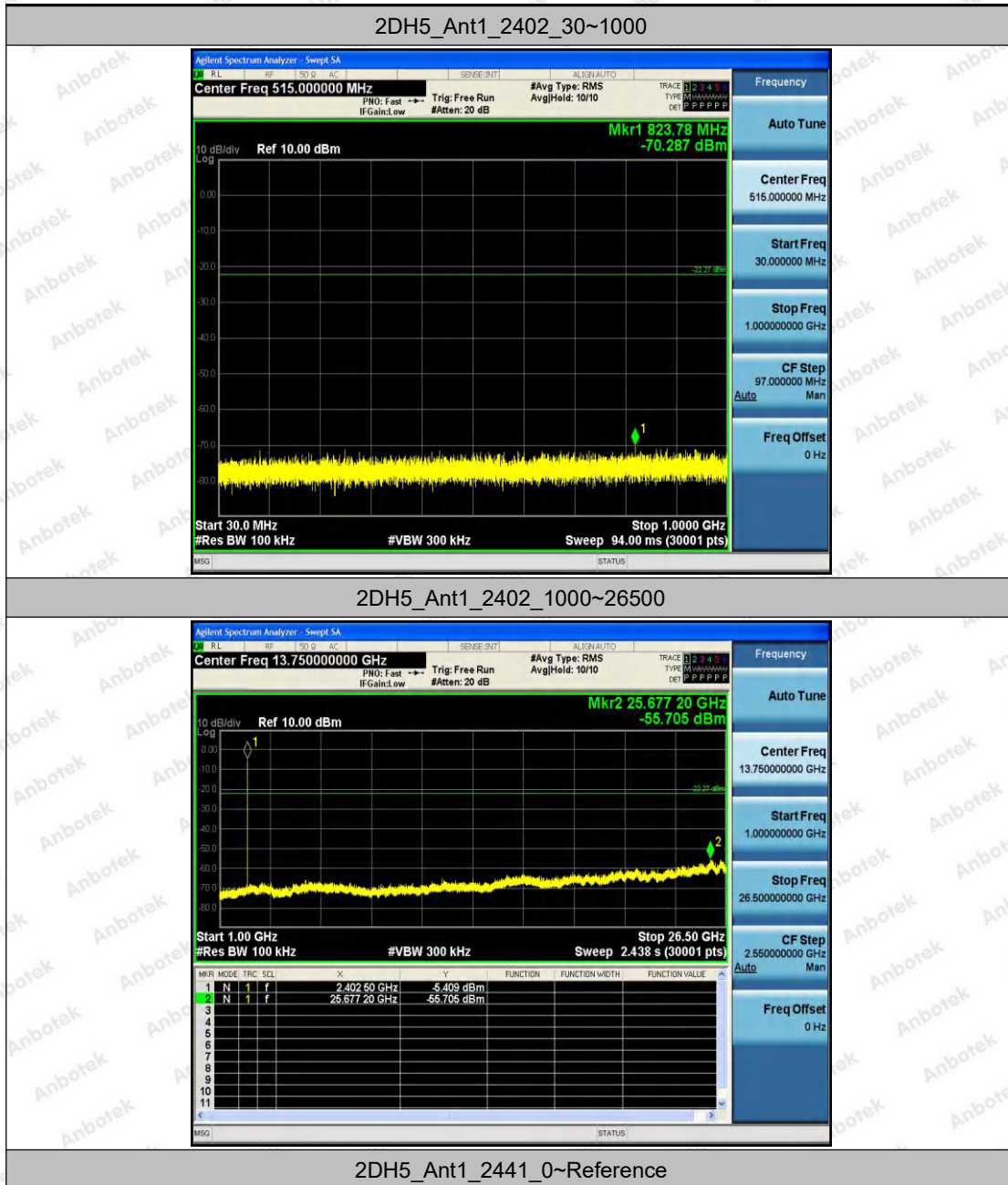


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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
400-003-0500
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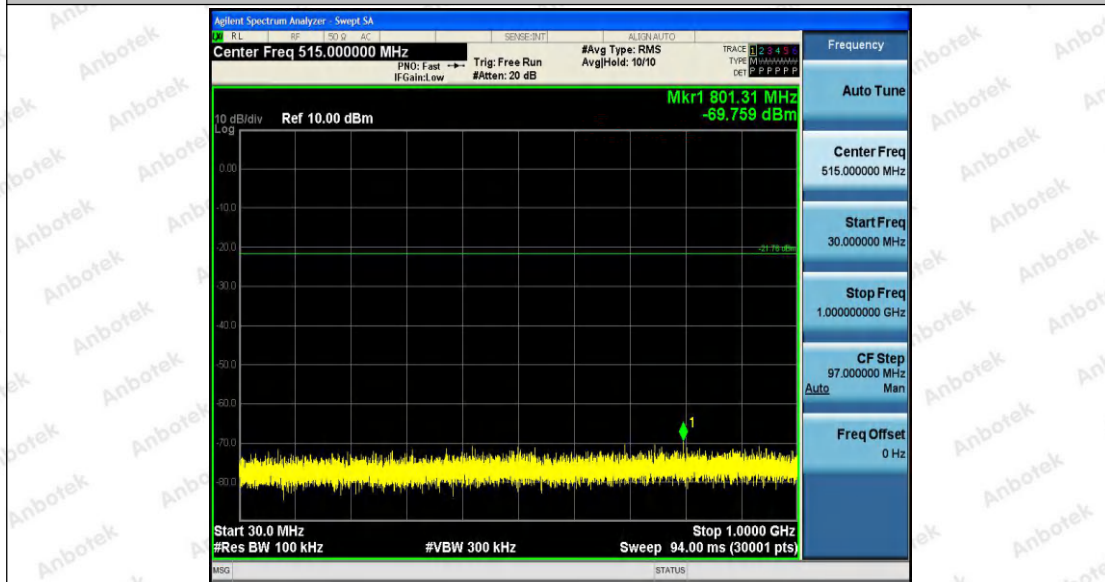
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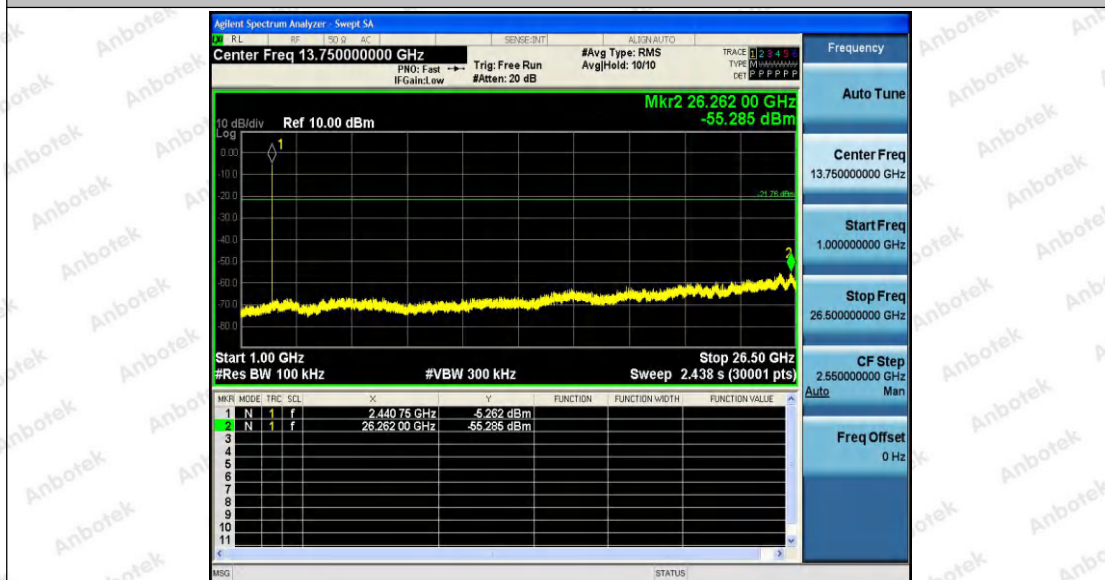
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

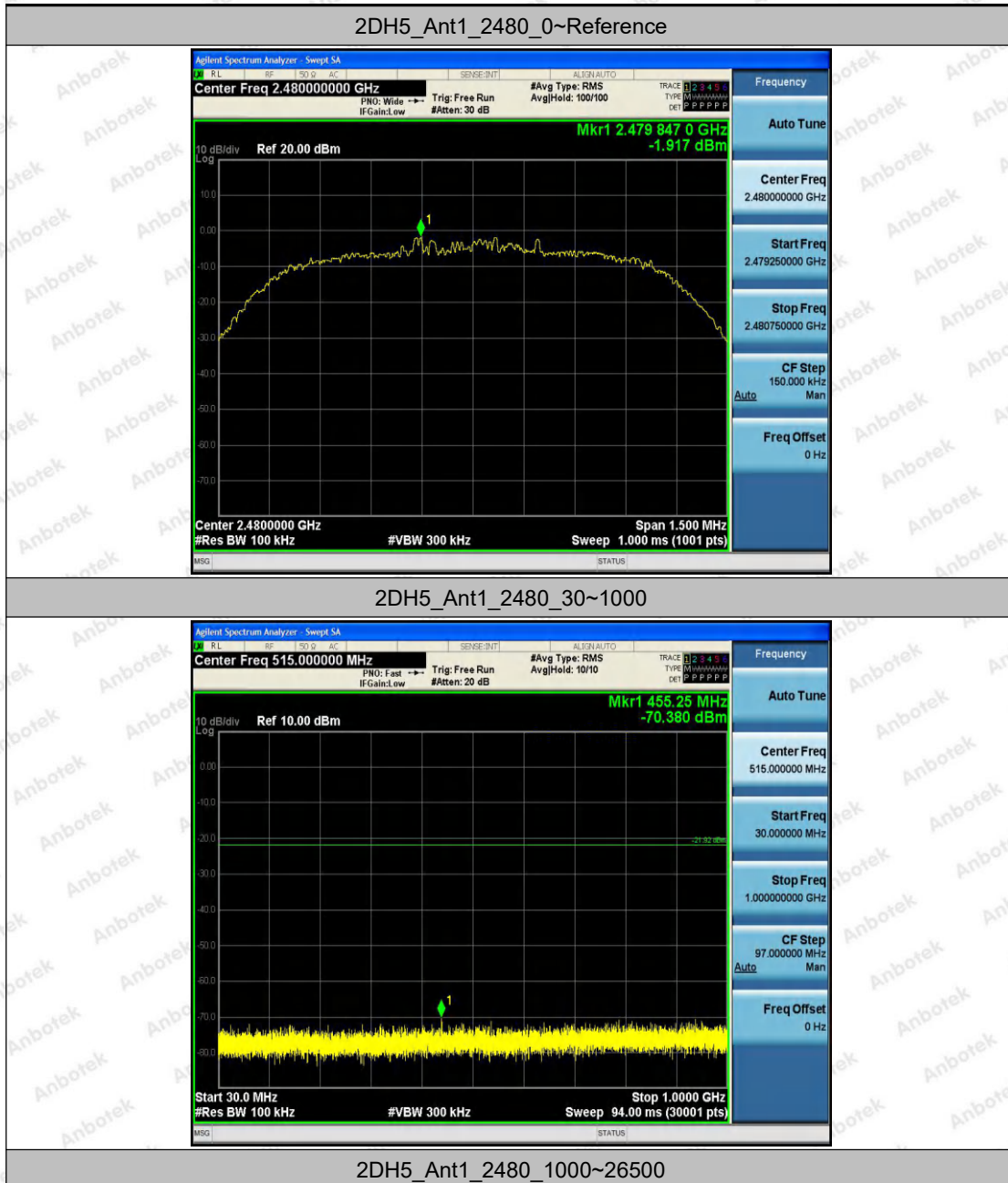


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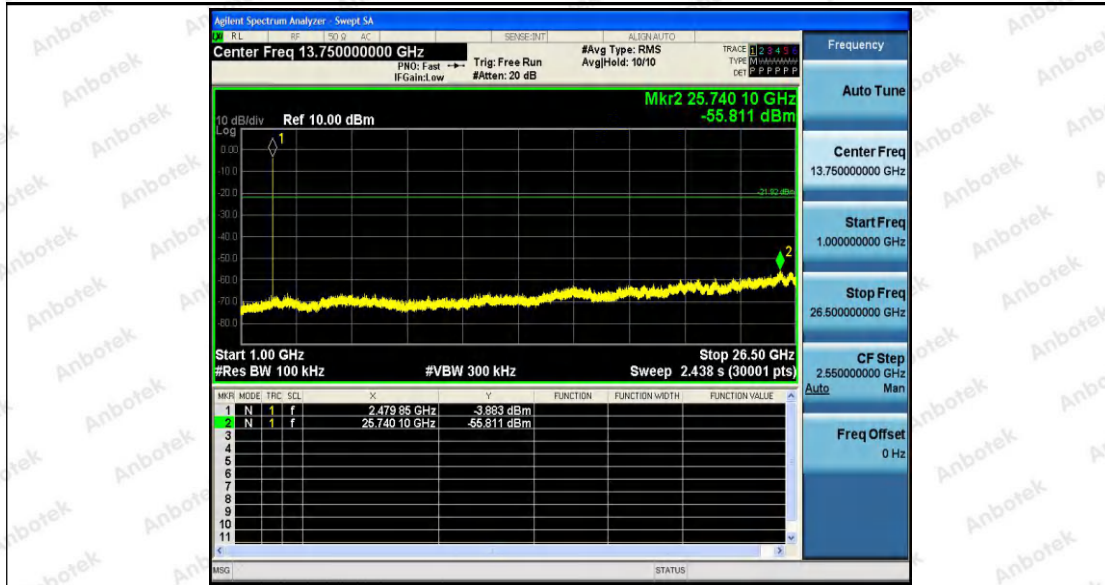


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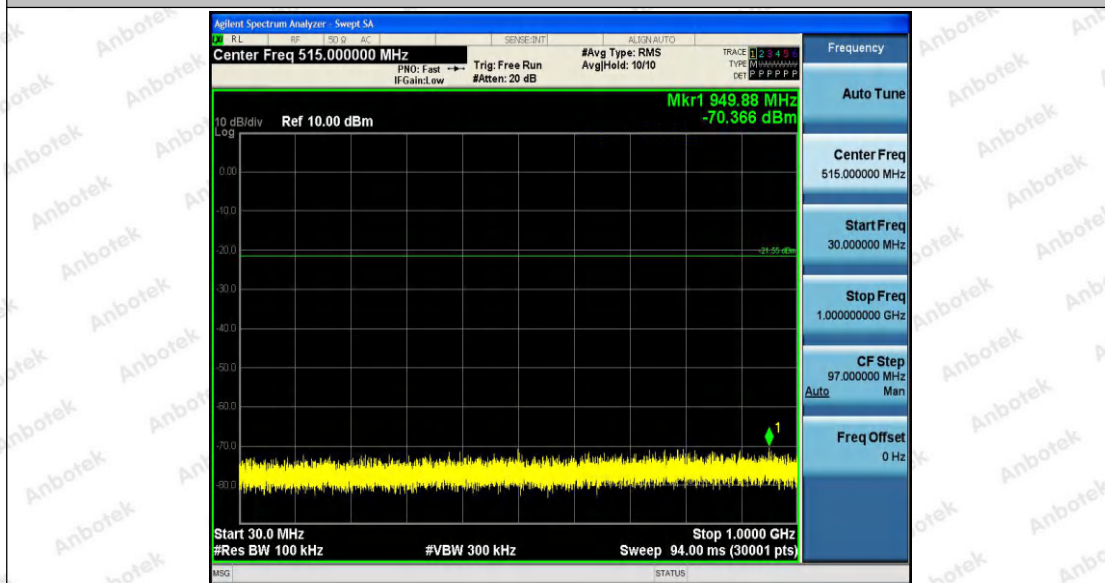
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

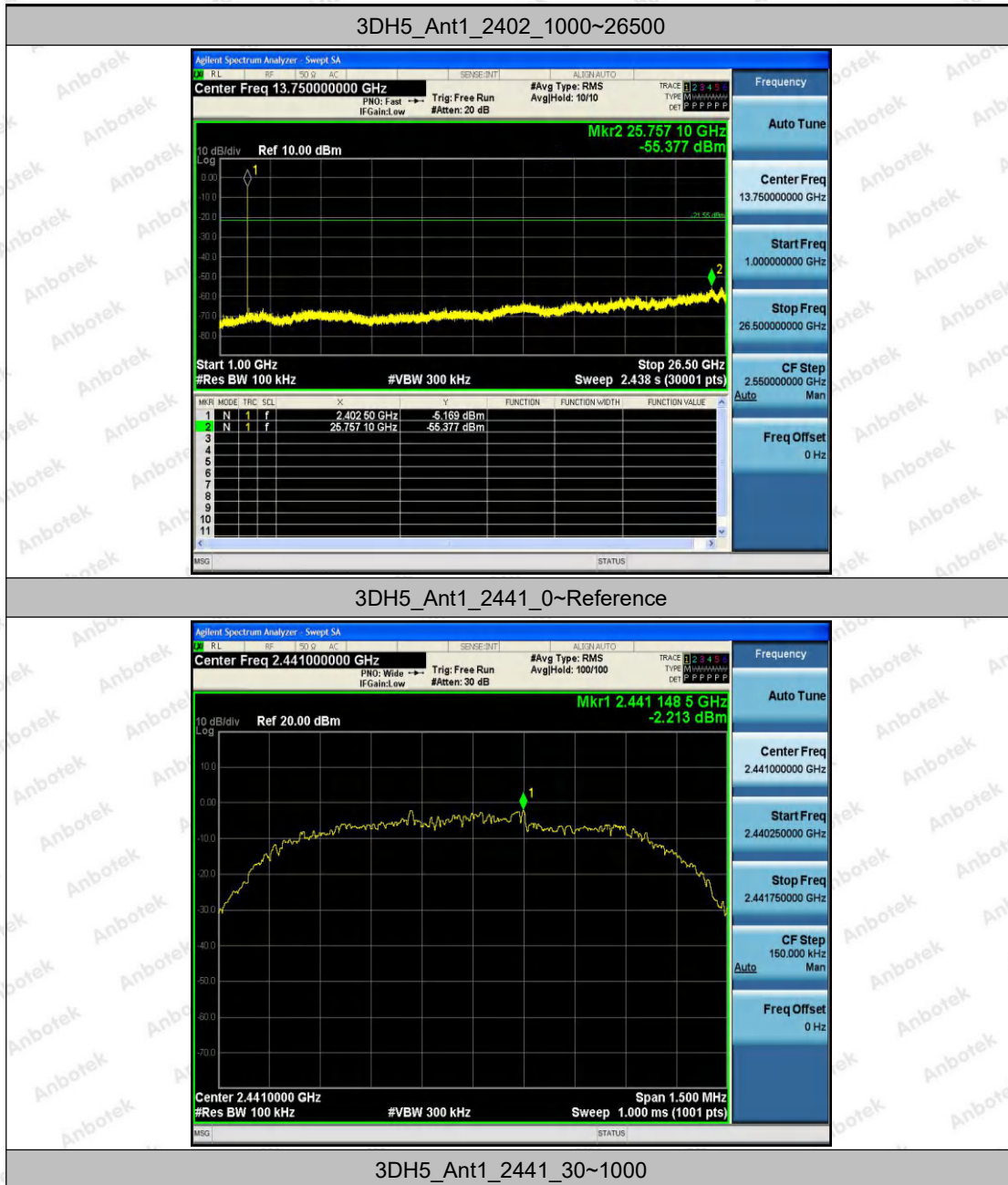


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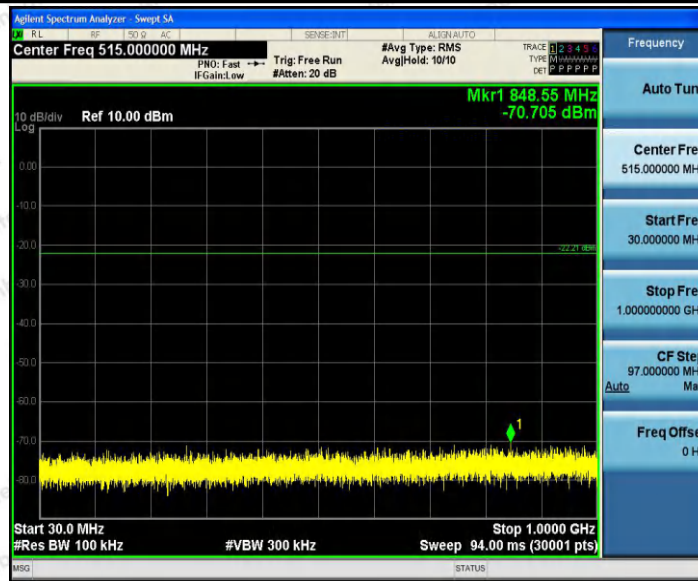
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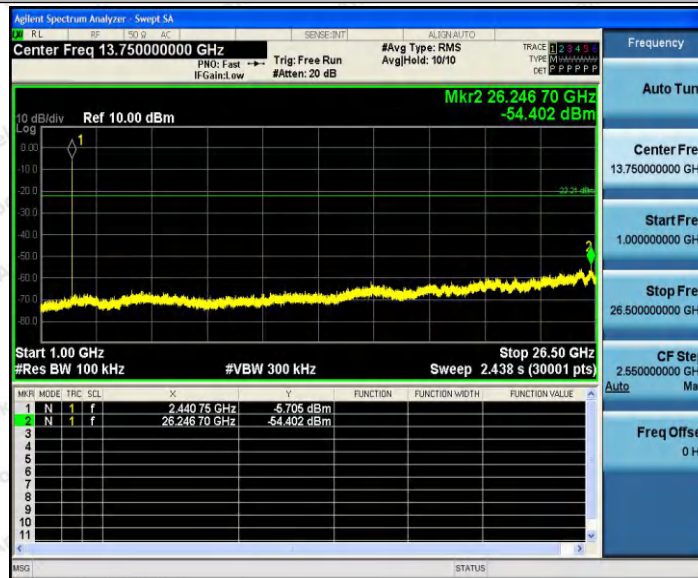
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

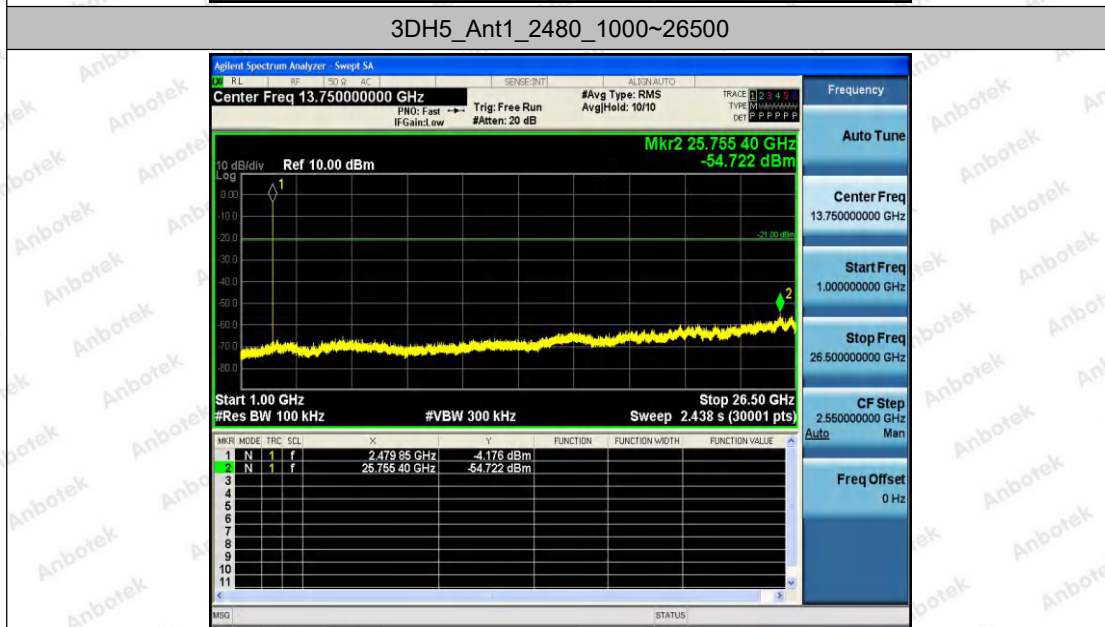
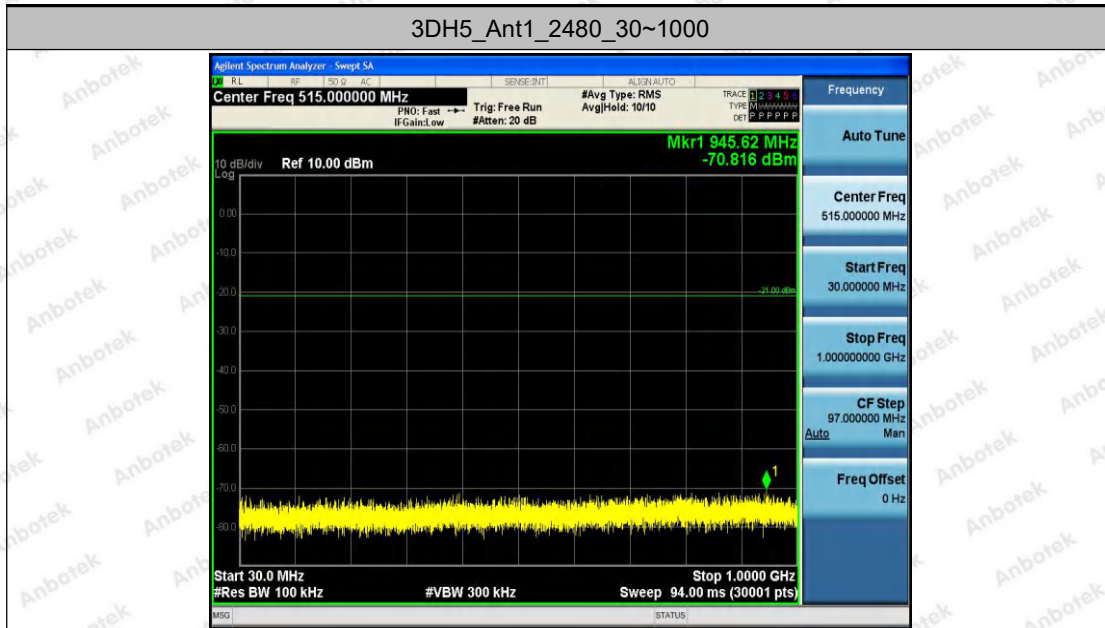


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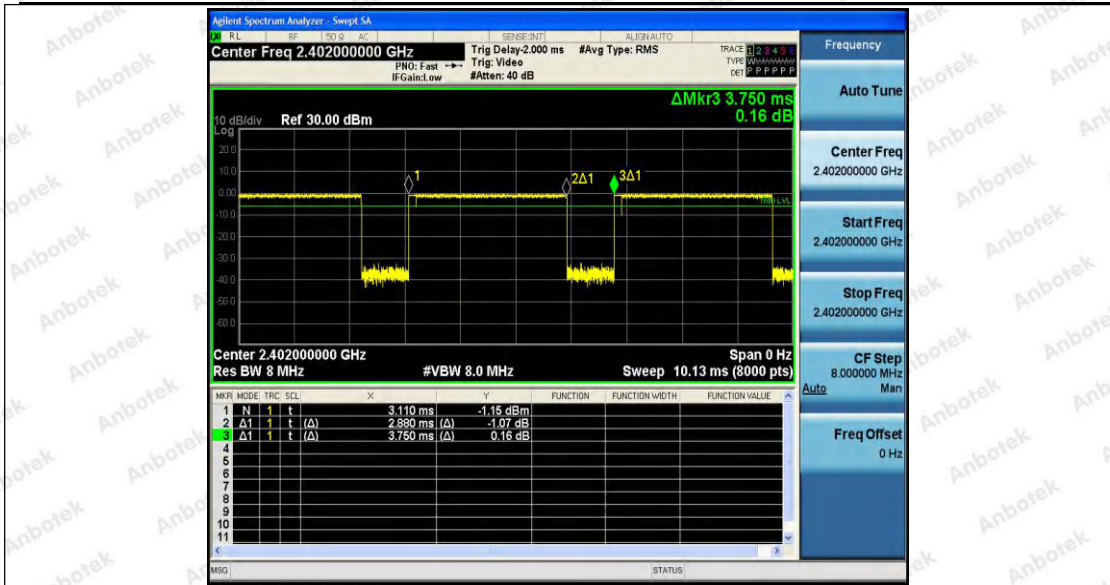
Appendix I: Duty Cycle

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





---End---