

Appendix Test Data

Report No.:	18220WC20113501	Test Sample No.:	1-2-2
Start Test Date:	2022.5.26	Finish Test Date:	2022.5.31
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	2401.541	2402.486	---	PASS
		2441	0.939	2440.538	2441.477	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.263	2440.364	2441.627	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.272	2401.349	2402.621	---	PASS
		2441	1.275	2440.349	2441.624	---	PASS
		2480	1.302	2479.346	2480.648	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2441

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3DH5_Ant1_2480



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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	0.88296	2401.561	2402.444	---	PASS
		2441	0.89821	2440.552	2441.451	---	PASS
		2480	0.89867	2479.554	2480.452	---	PASS
2DH5	Ant1	2402	1.1911	2401.403	2402.594	---	PASS
		2441	1.1966	2440.400	2441.597	---	PASS
		2480	1.1987	2479.398	2480.596	---	PASS
3DH5	Ant1	2402	1.2144	2401.382	2402.596	---	PASS
		2441	1.2089	2440.385	2441.594	---	PASS
		2480	1.2034	2479.389	2480.592	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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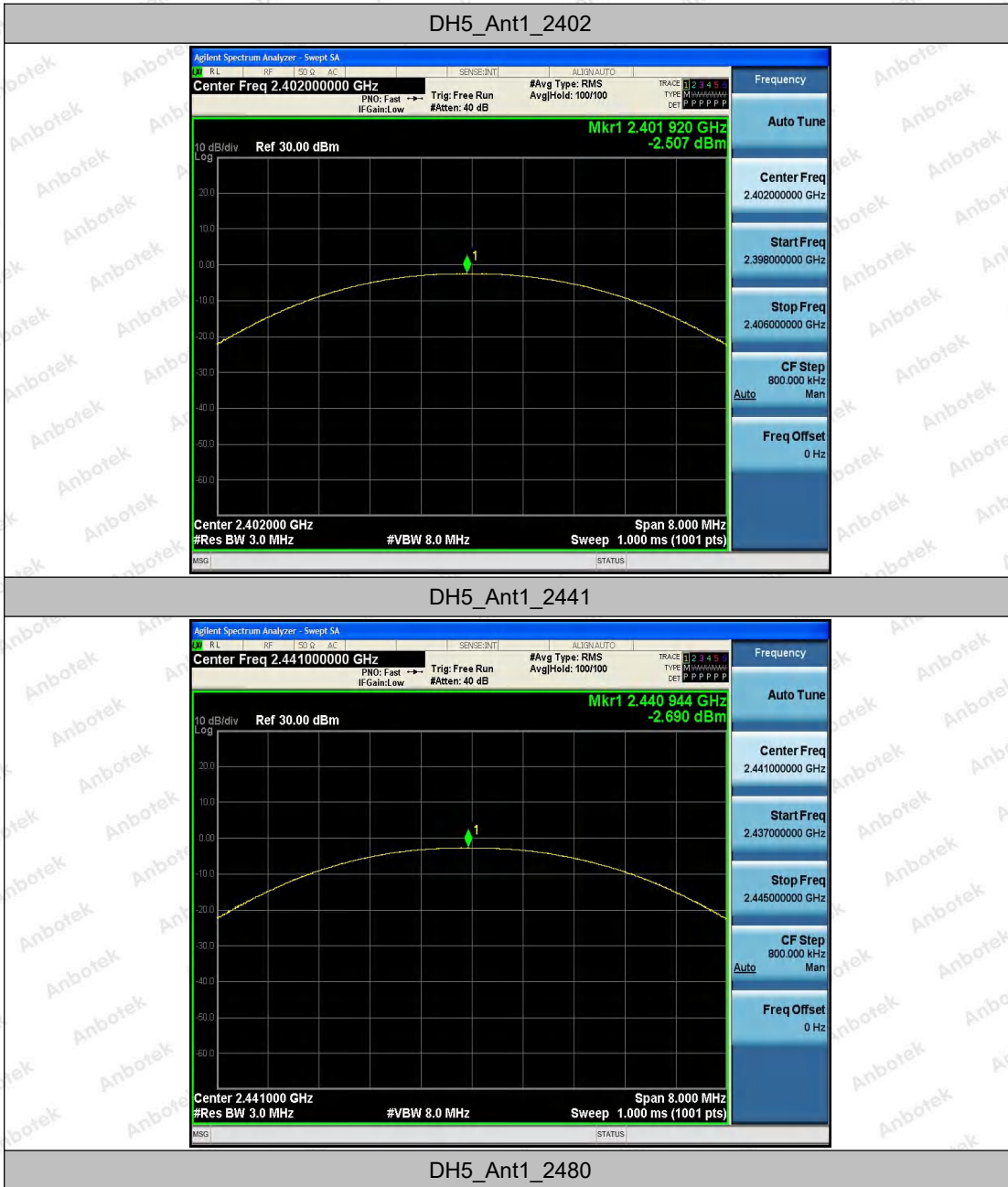
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.51	≤20.97	PASS
		2441	-2.69	≤20.97	PASS
		2480	-2.3	≤20.97	PASS
2DH5	Ant1	2402	-3.23	≤20.97	PASS
		2441	-3.45	≤20.97	PASS
		2480	-3.1	≤20.97	PASS
3DH5	Ant1	2402	-3.12	≤20.97	PASS
		2441	-3.27	≤20.97	PASS
		2480	-2.91	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

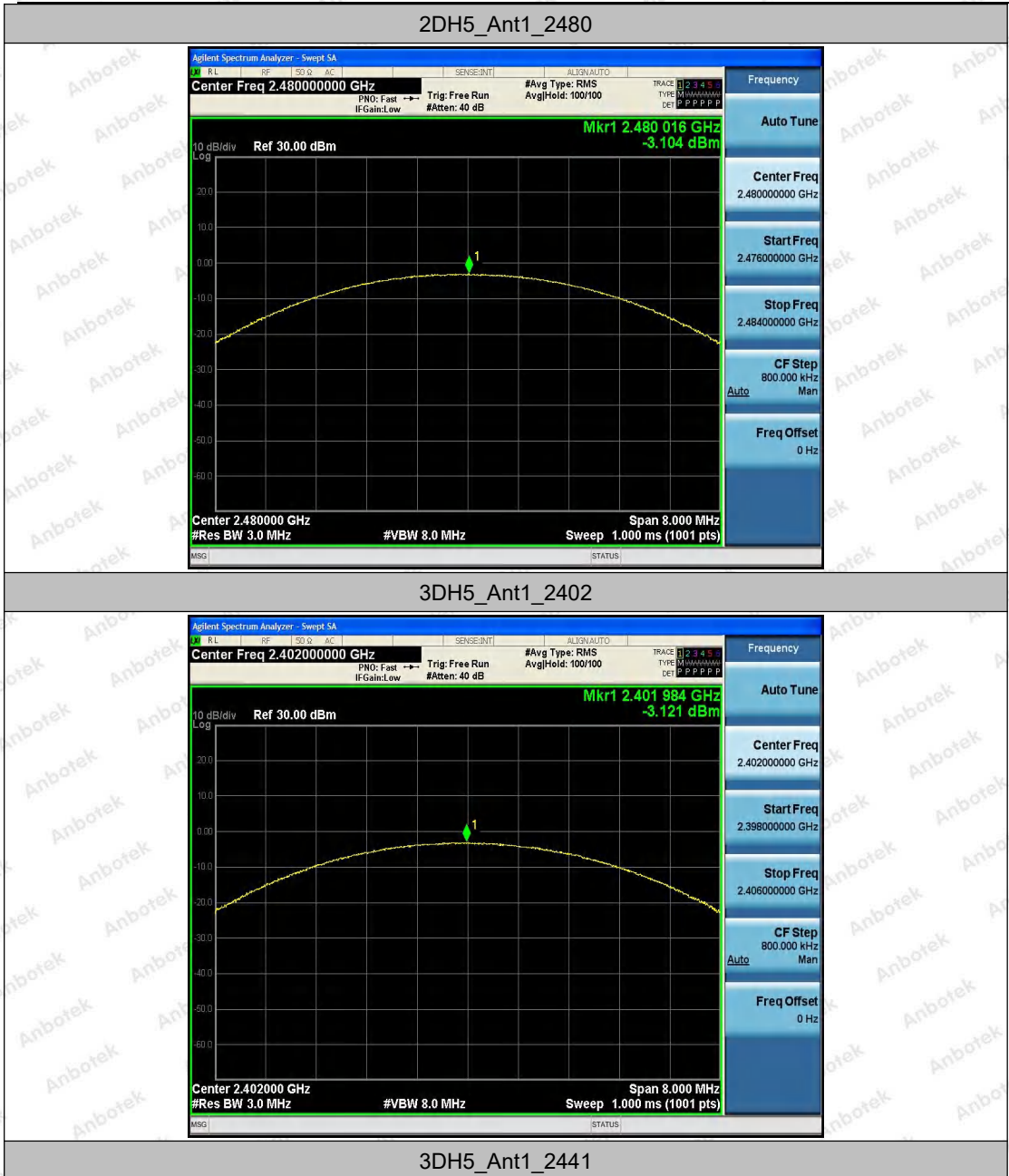


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3DH5_Ant1_2480



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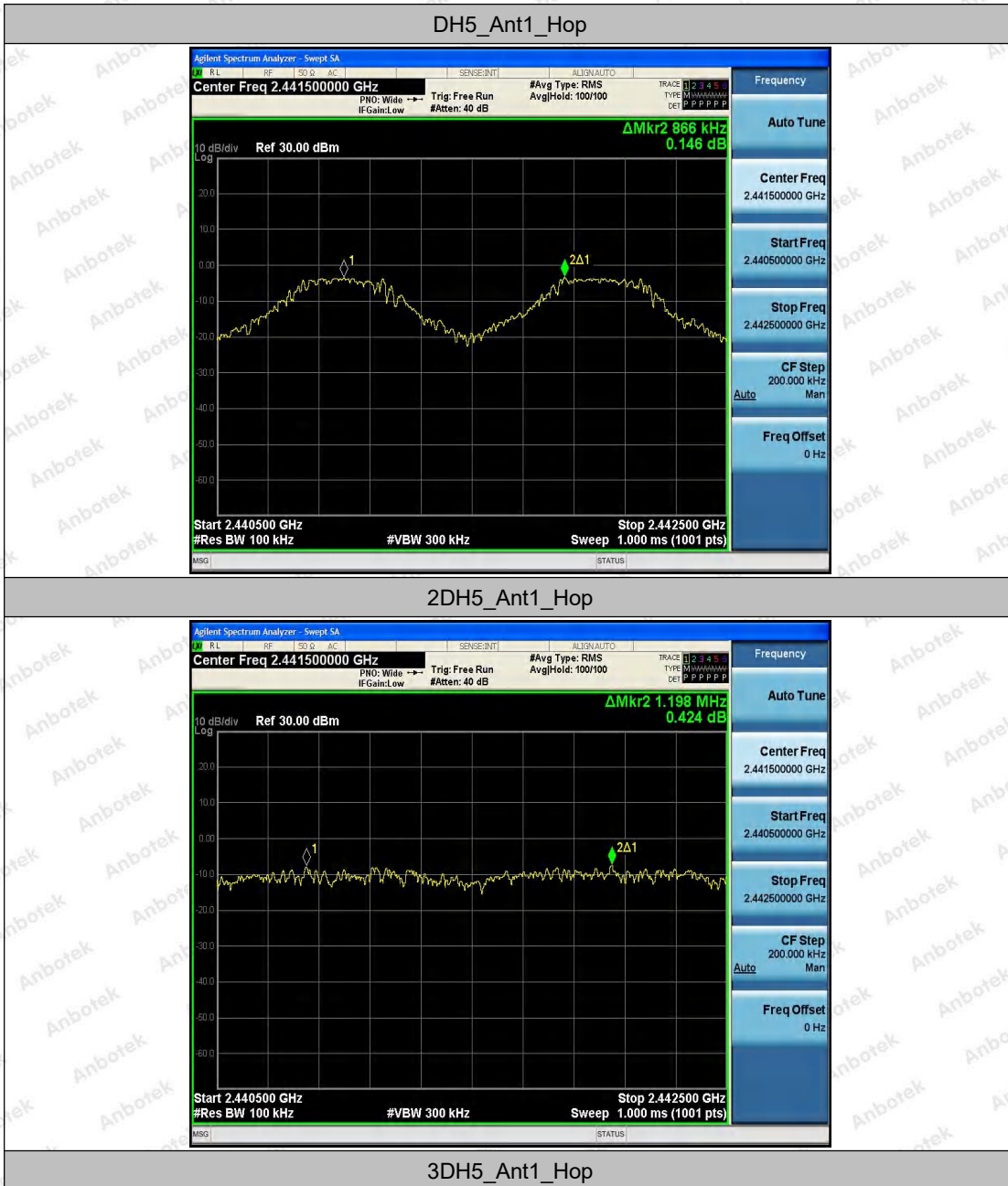
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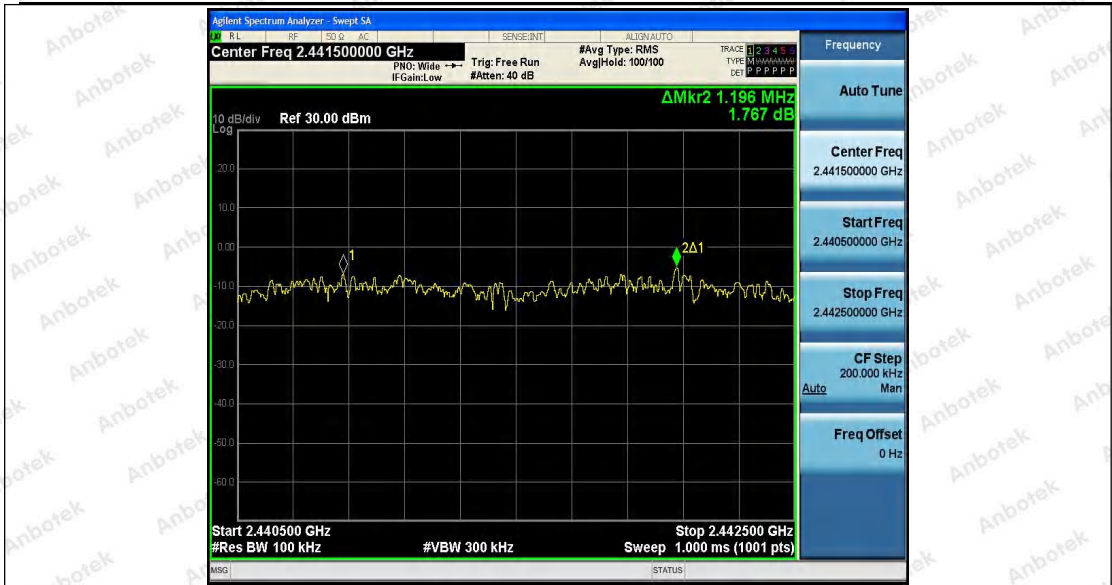
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.866	≥ 0.630	PASS
2DH5	Ant1	Hop	1.198	≥ 0.882	PASS
3DH5	Ant1	Hop	1.196	≥ 0.868	PASS

Test Graphs





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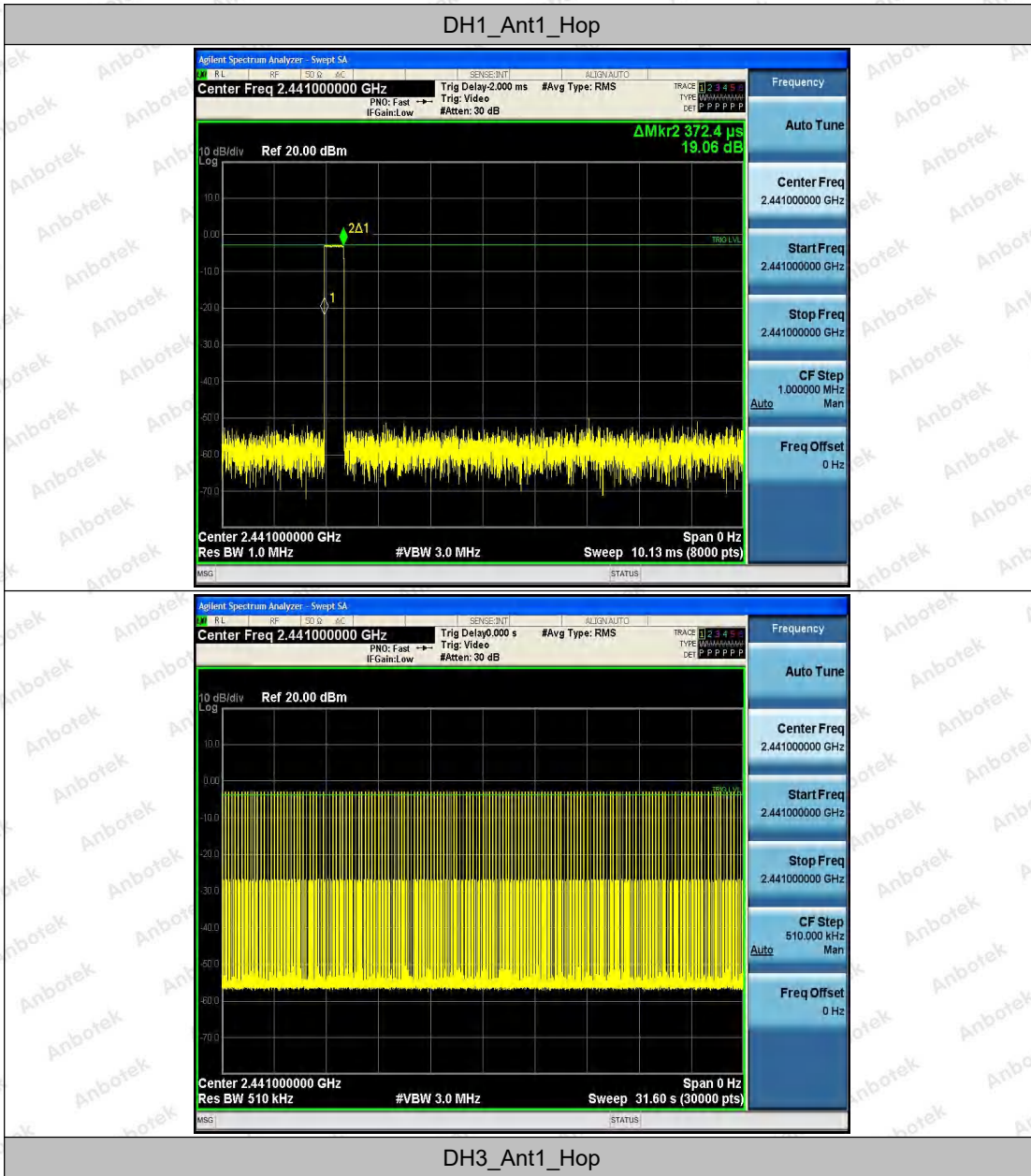
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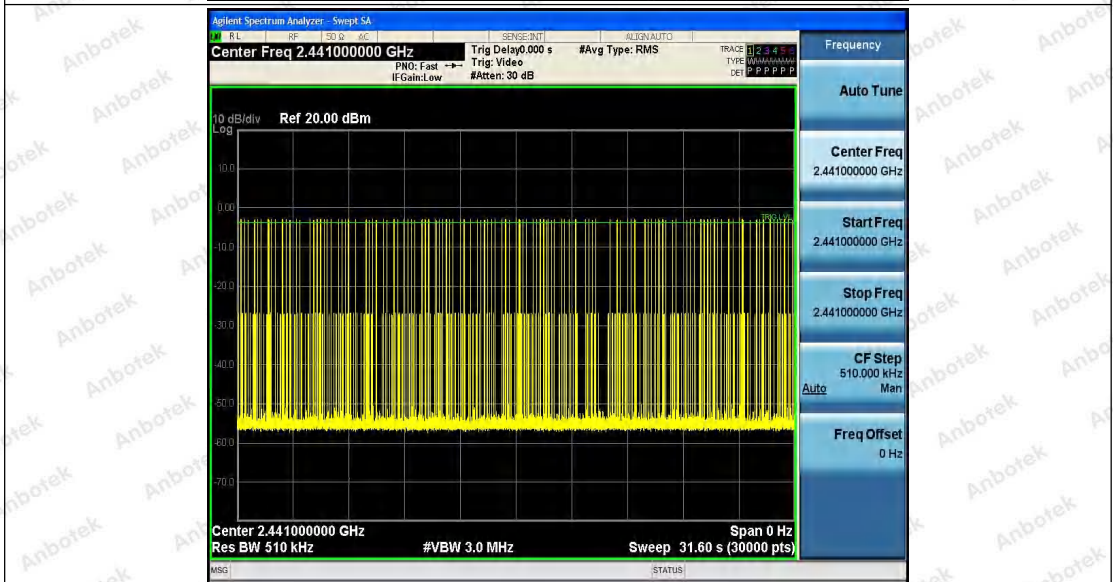
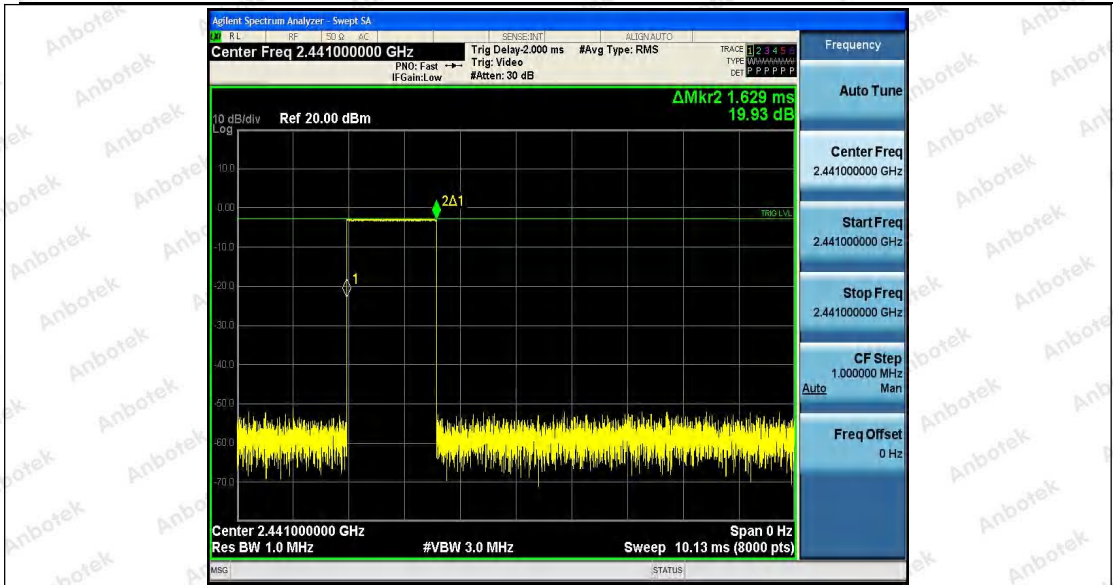
Appendix E: Time of occupancy

Test Result

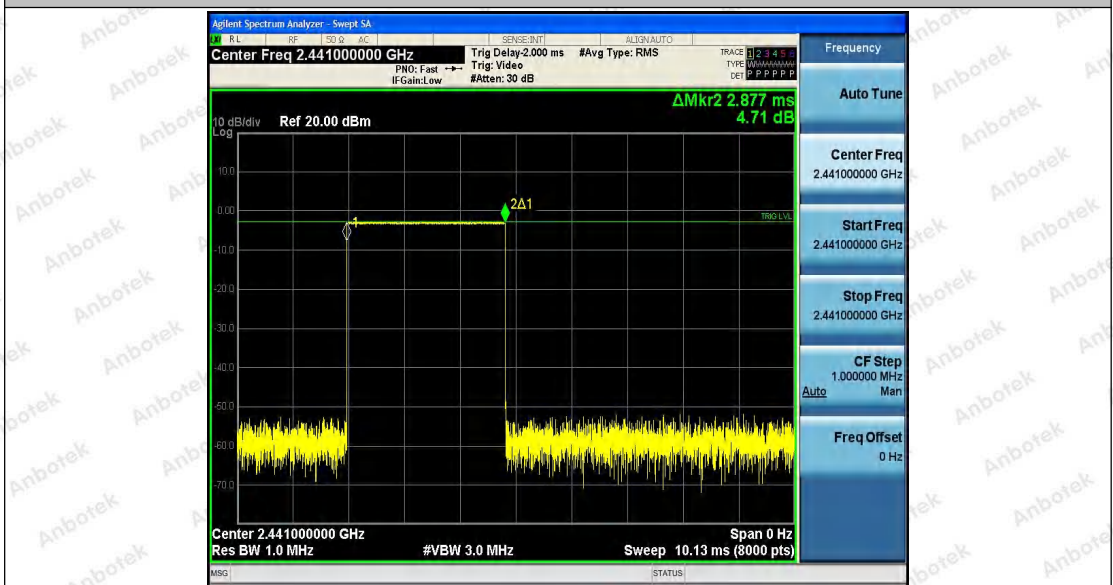
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	102	0.293	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤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	102	0.294	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

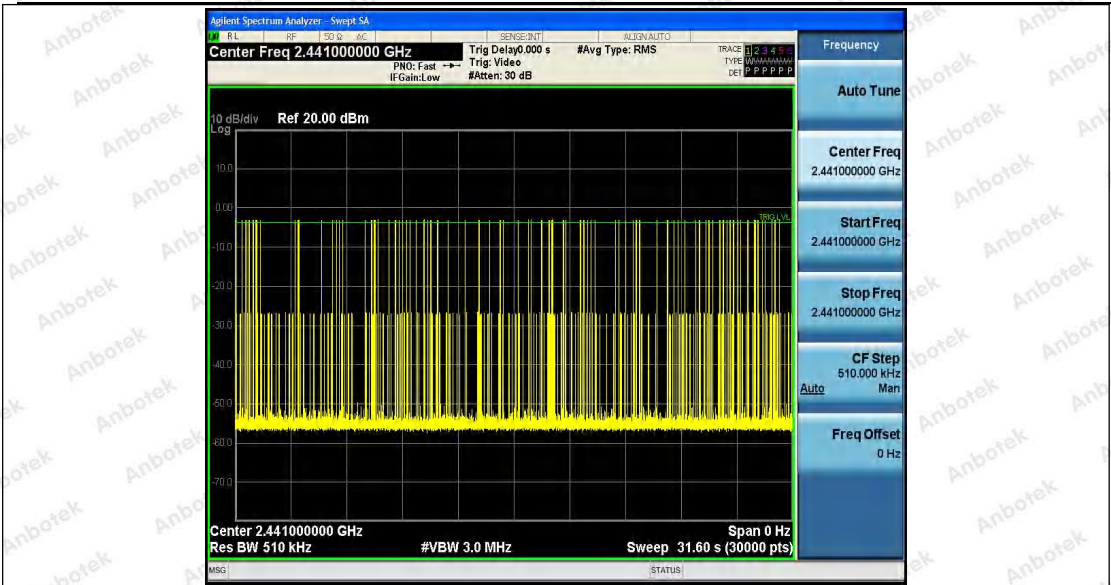


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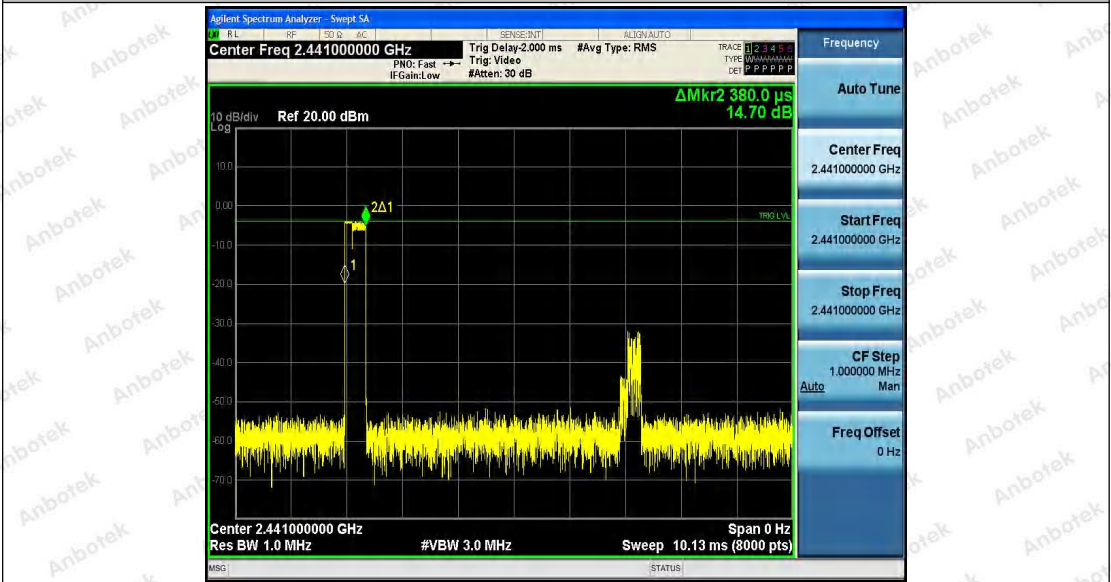
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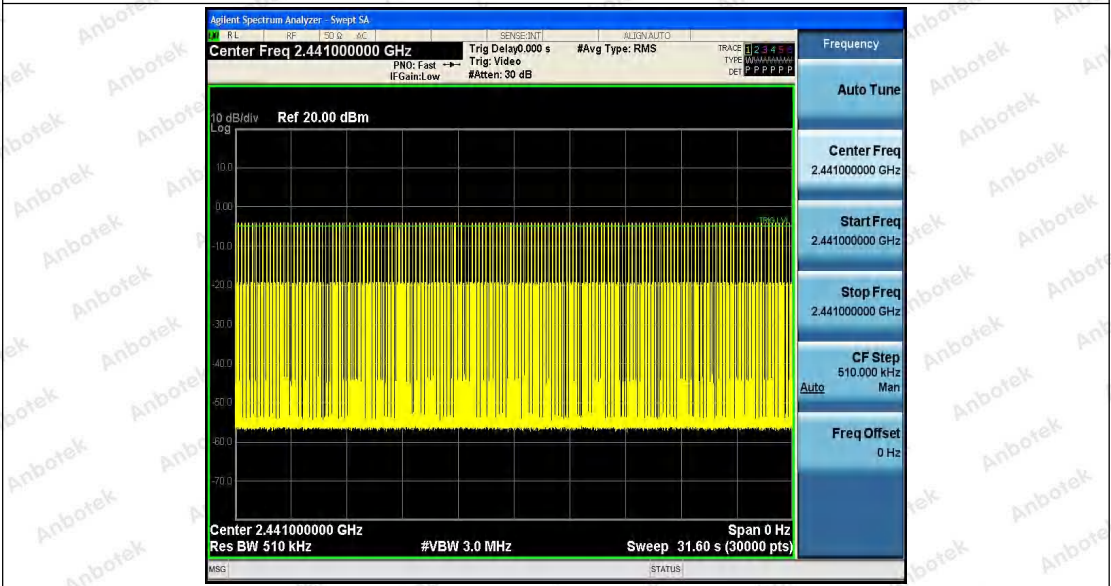
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2DH1_Ant1_Hop



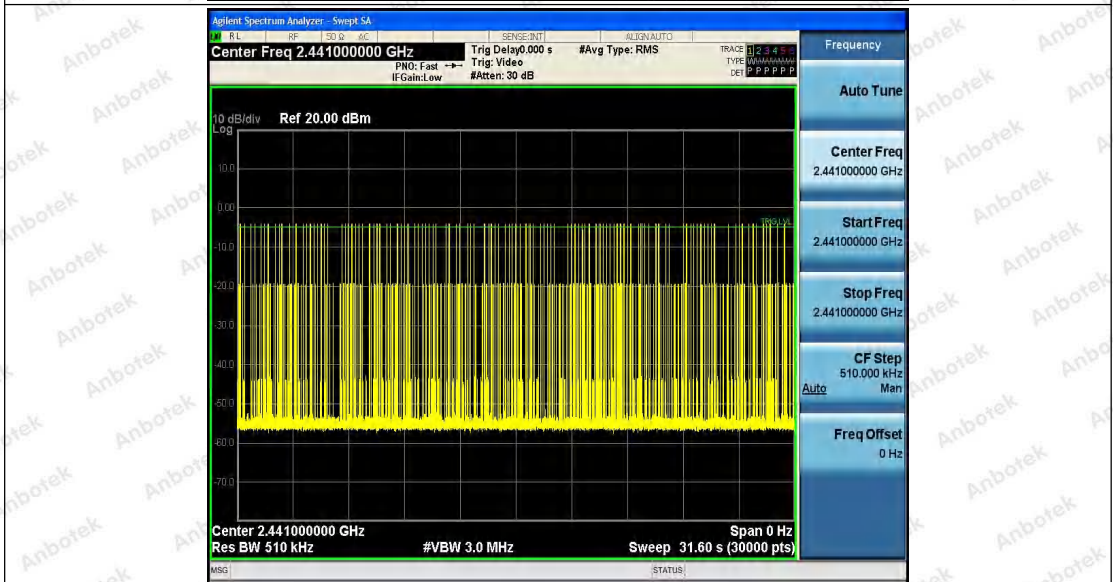
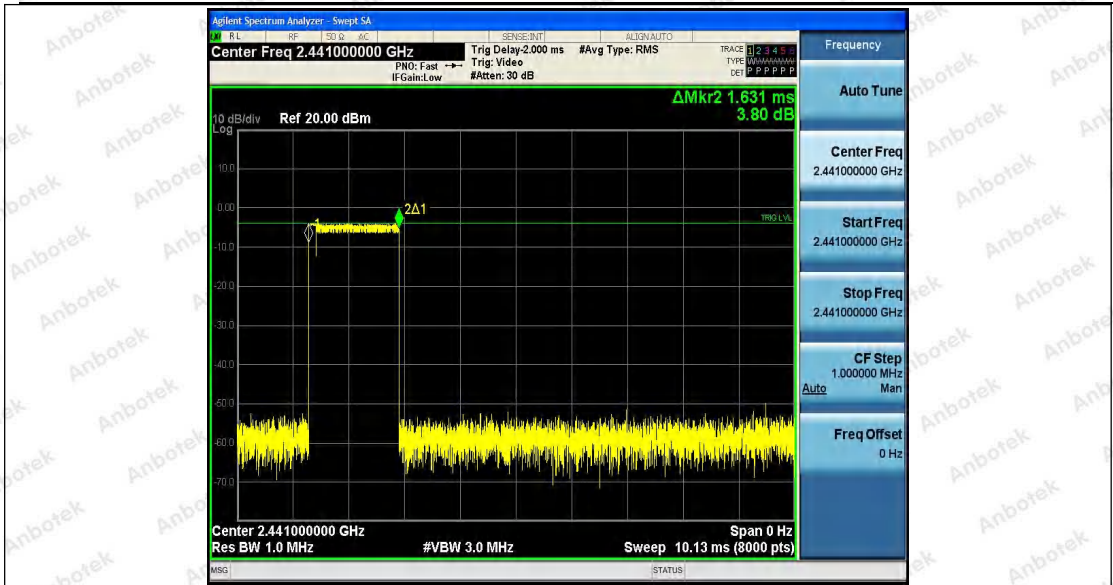
2DH3_Ant1_Hop



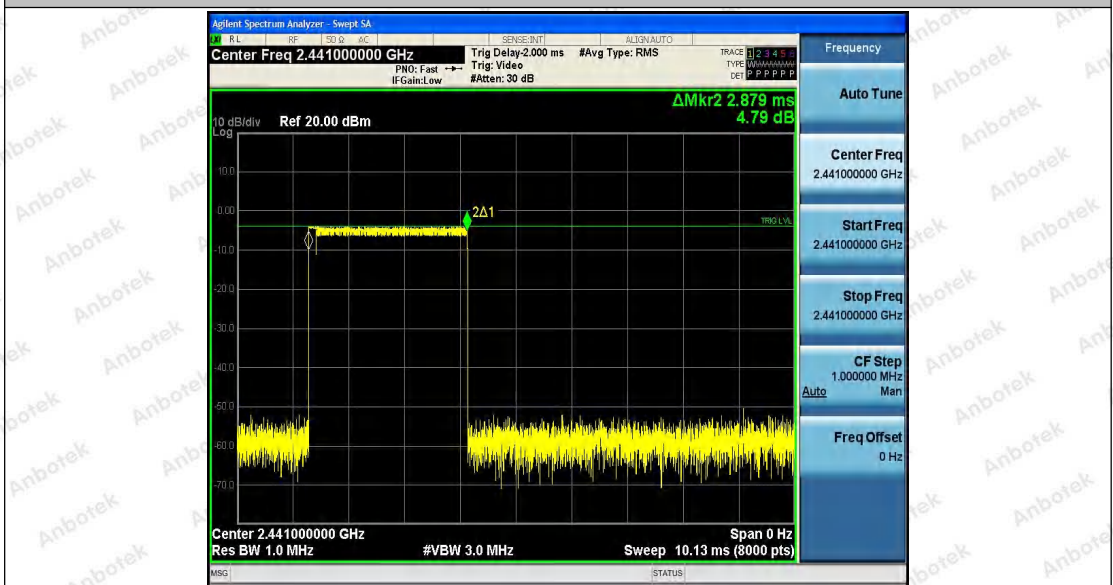
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2DH5_Ant1_Hop

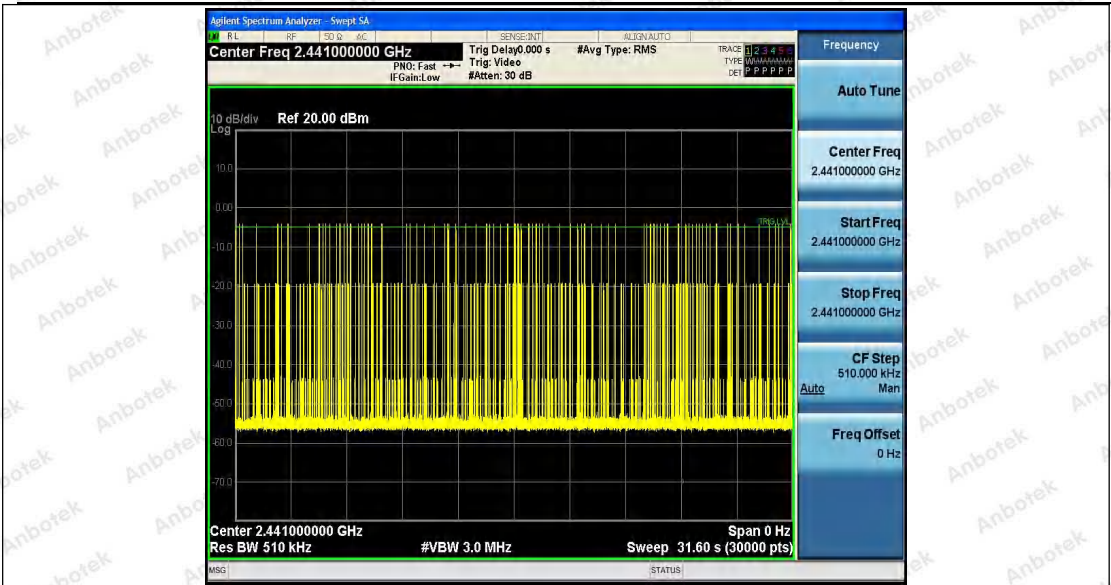


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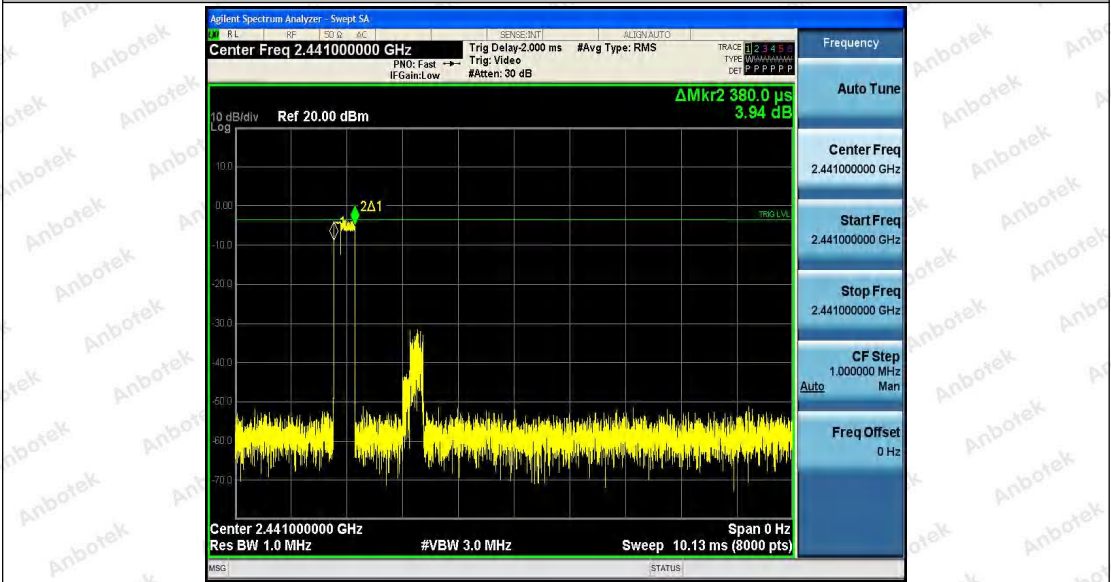
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

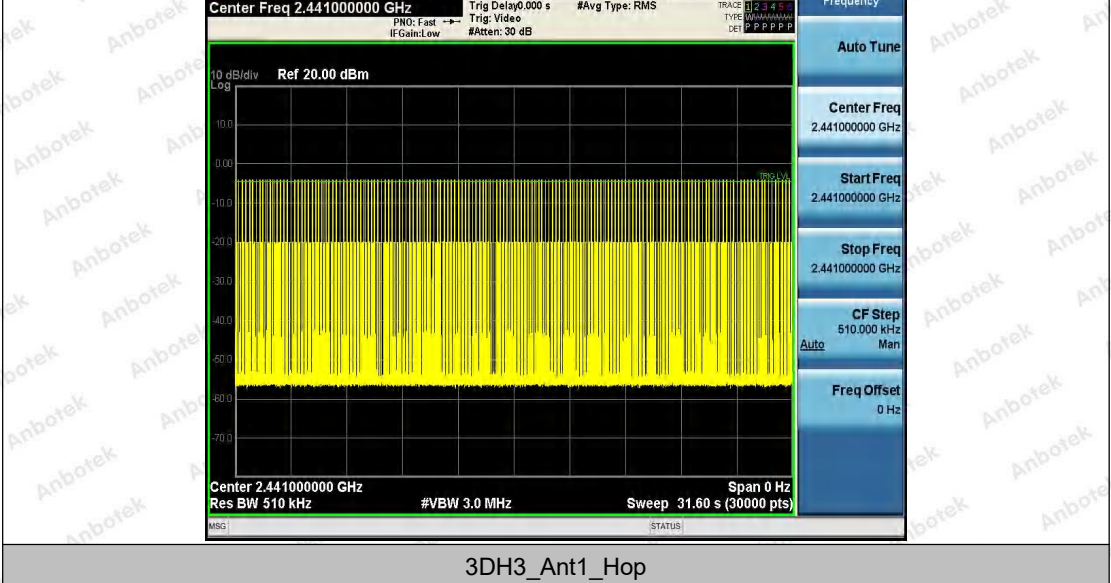
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3DH1_Ant1_Hop



3DH1_Ant1_Hop

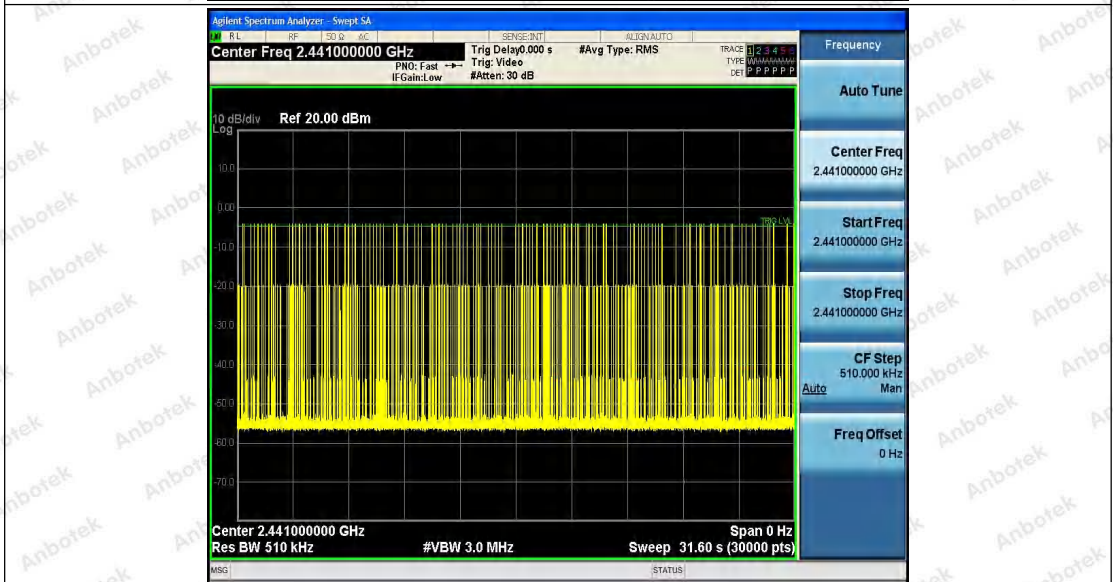
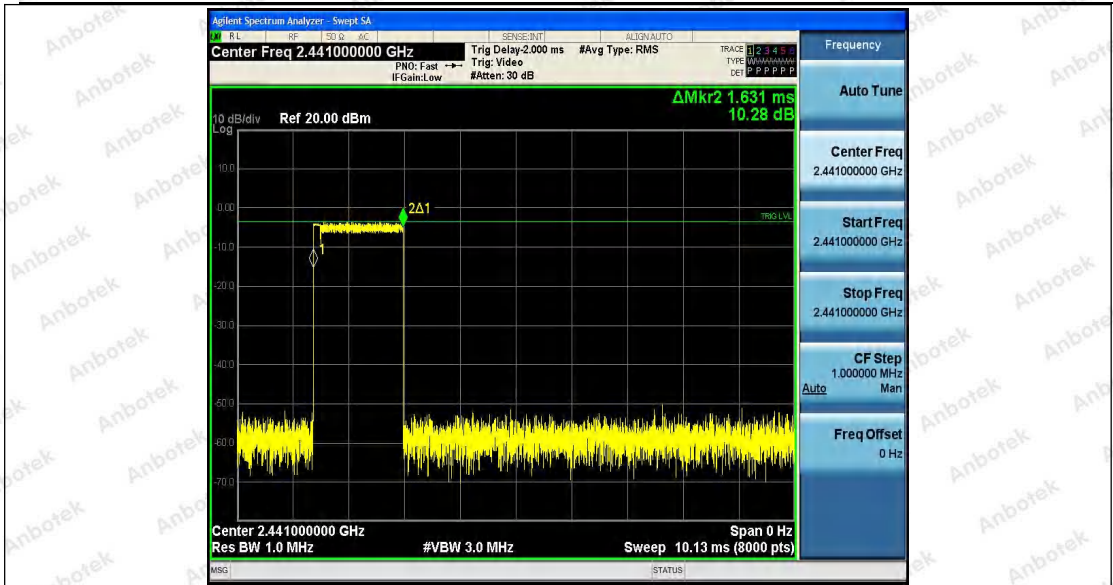


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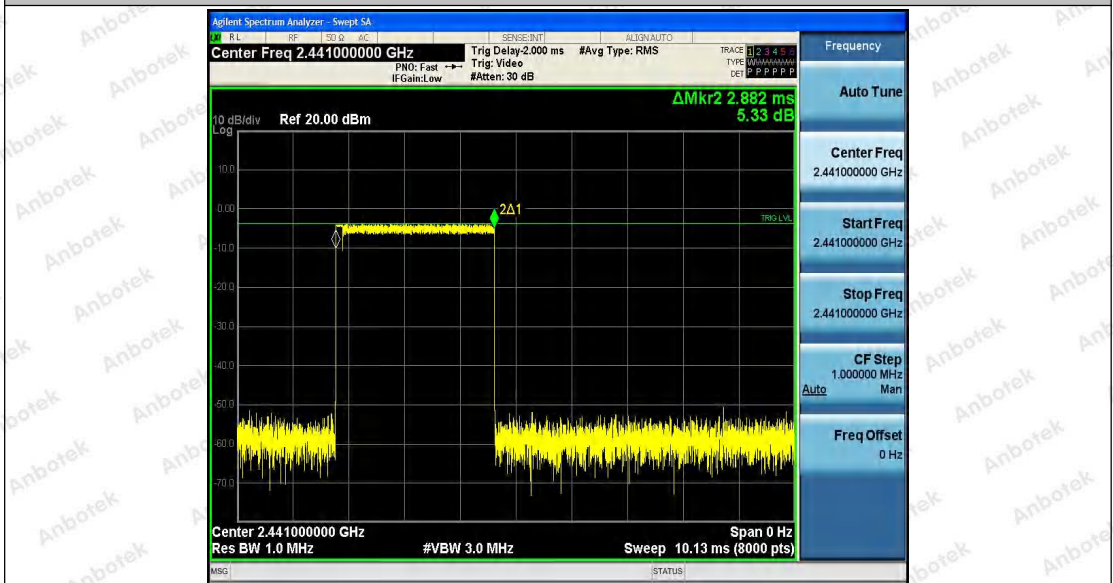
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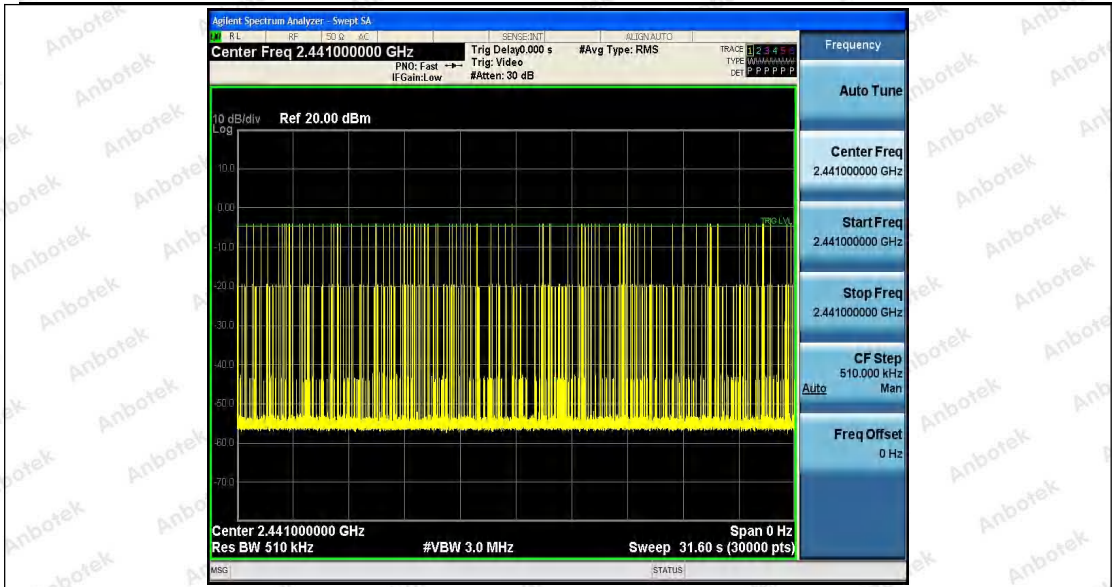
3DH5_Ant1_Hop



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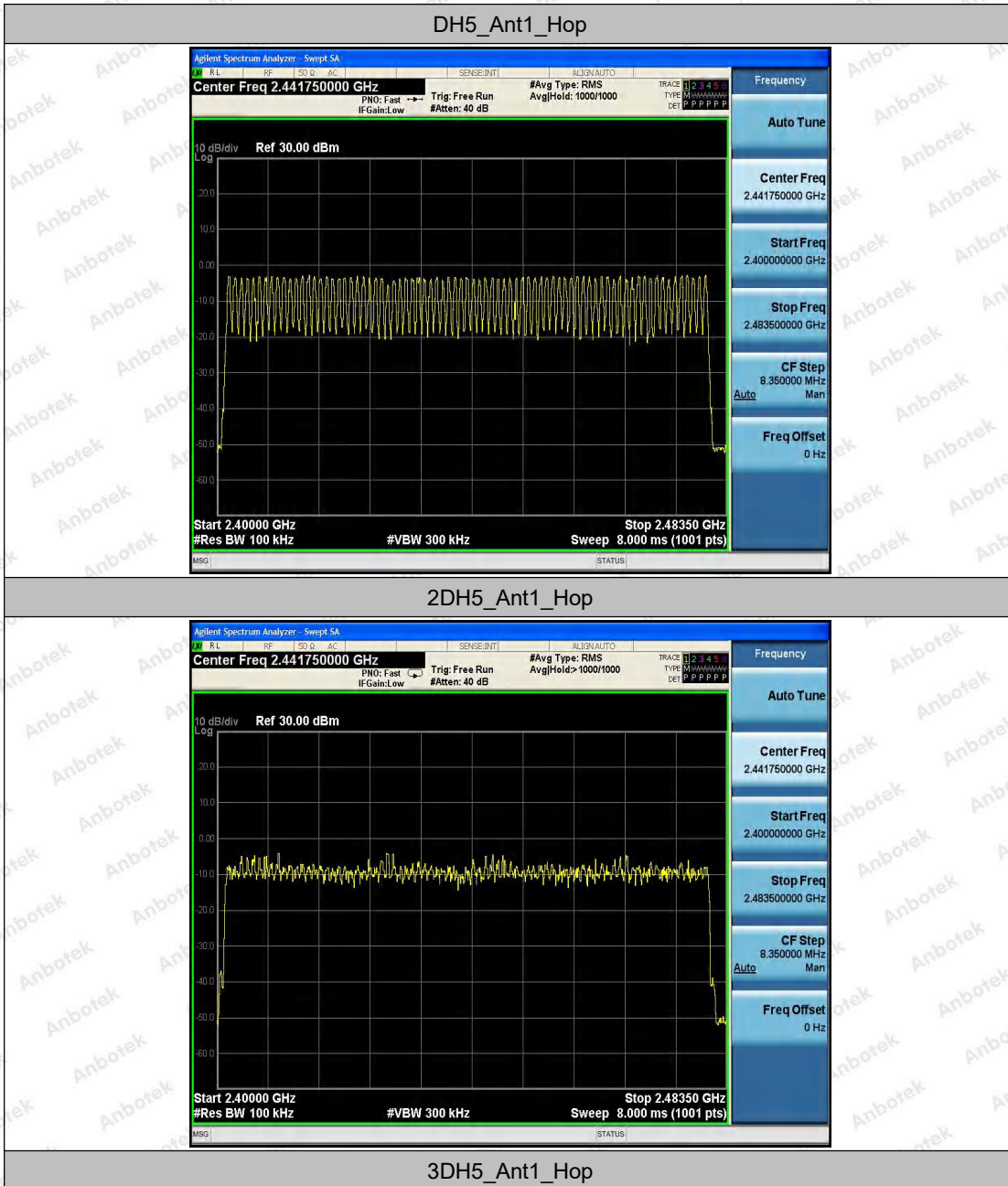
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Appendix F: Number of hopping channels

Test Result

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

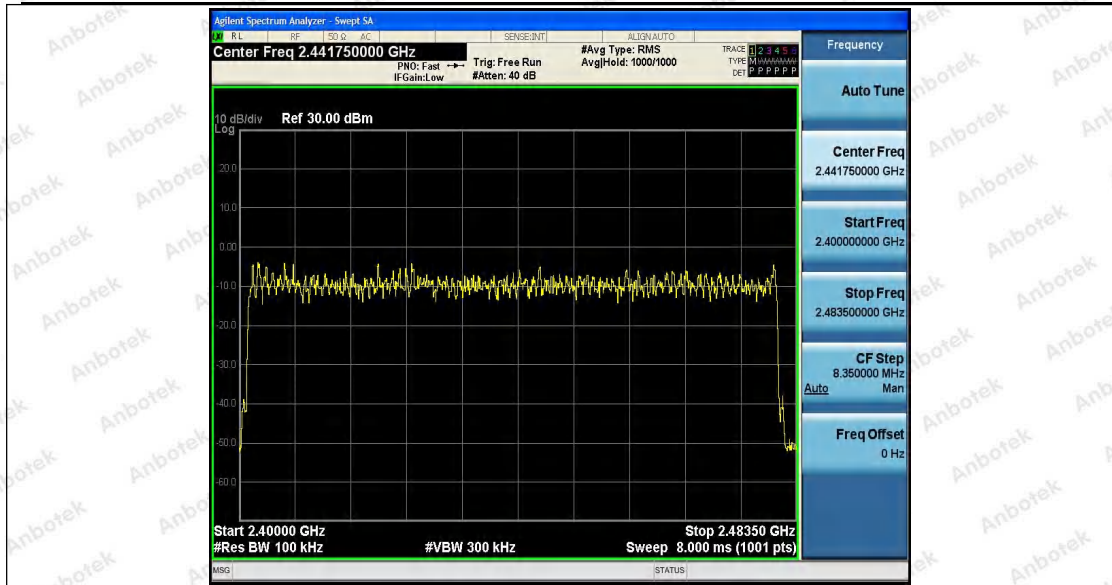


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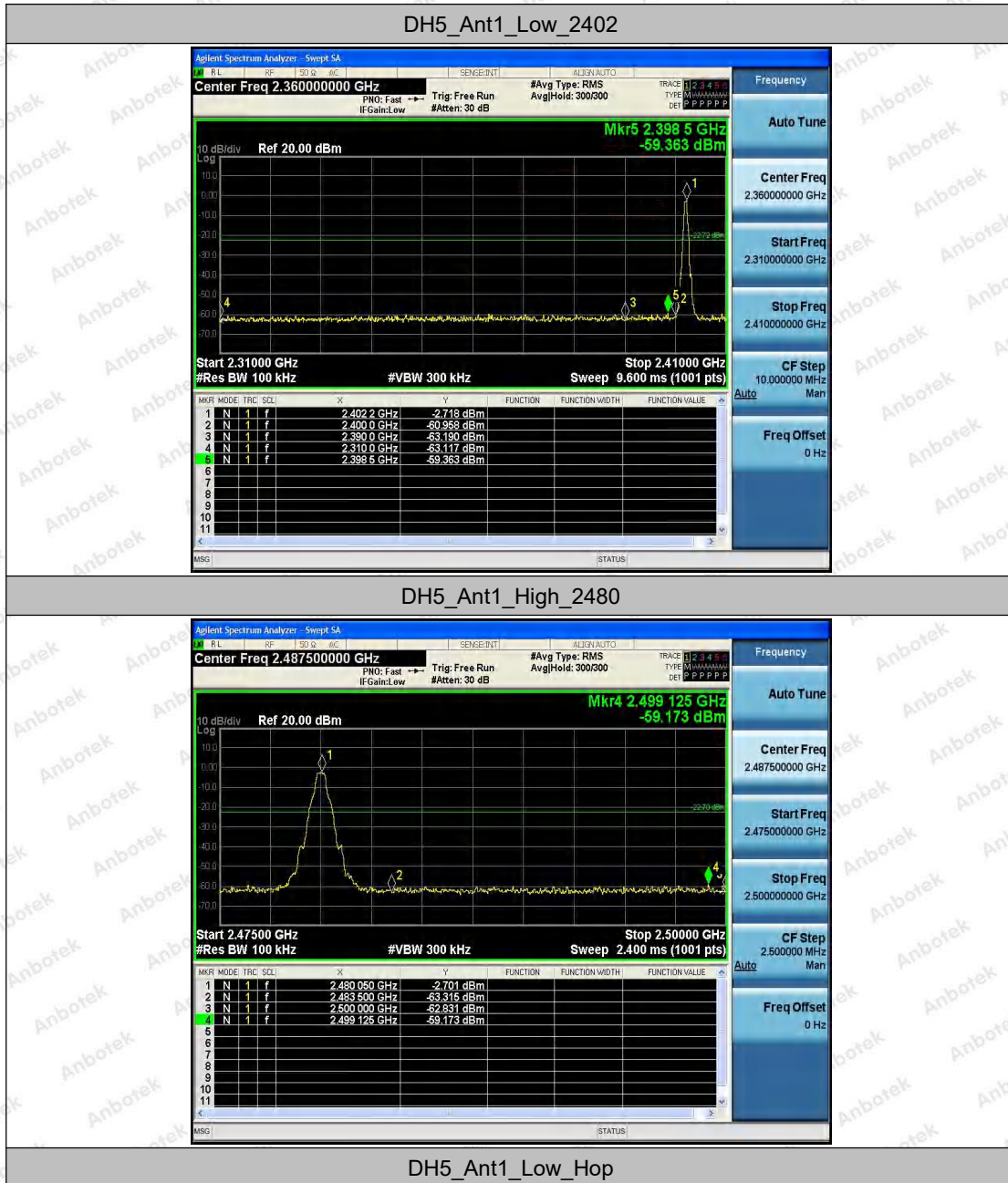
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.72	-59.36	≤-22.72	PASS
		High	2480	-2.70	-59.17	≤-22.7	PASS
		Low	Hop	-3.54	-60	≤-23.54	PASS
		High	Hop	-3.21	-63.21	≤-23.21	PASS
2DH5	Ant1	Low	2402	-4.35	-58.62	≤-24.35	PASS
		High	2480	-3.84	-59.54	≤-23.84	PASS
		Low	Hop	-4.20	-59.2	≤-24.2	PASS
		High	Hop	-7.14	-62.93	≤-27.14	PASS
3DH5	Ant1	Low	2402	-4.78	-59.48	≤-24.78	PASS
		High	2480	-3.87	-59.43	≤-23.87	PASS
		Low	Hop	-4.36	-59.75	≤-24.36	PASS
		High	Hop	-4.15	-62.08	≤-24.15	PASS

Test Graphs

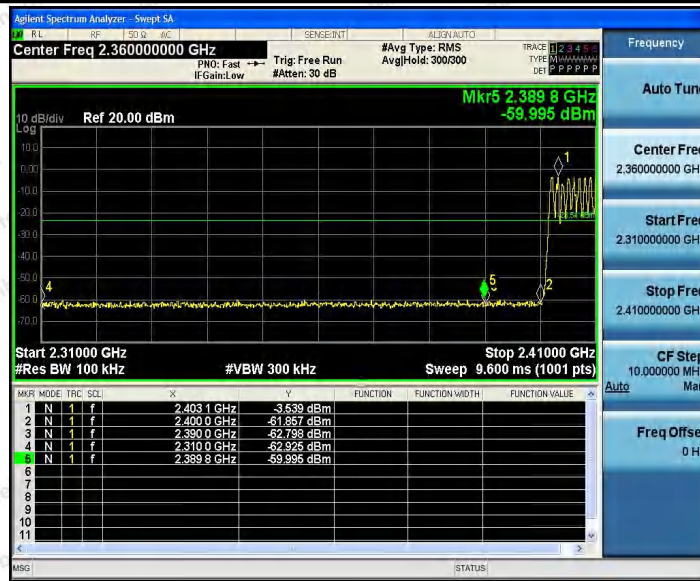


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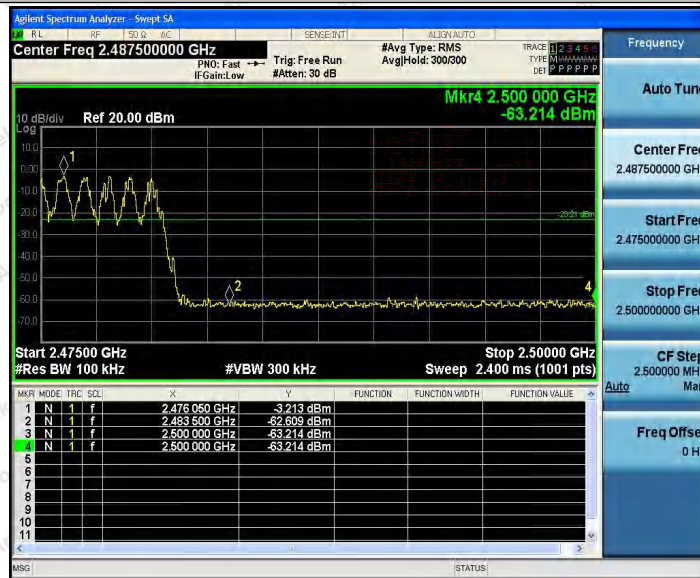
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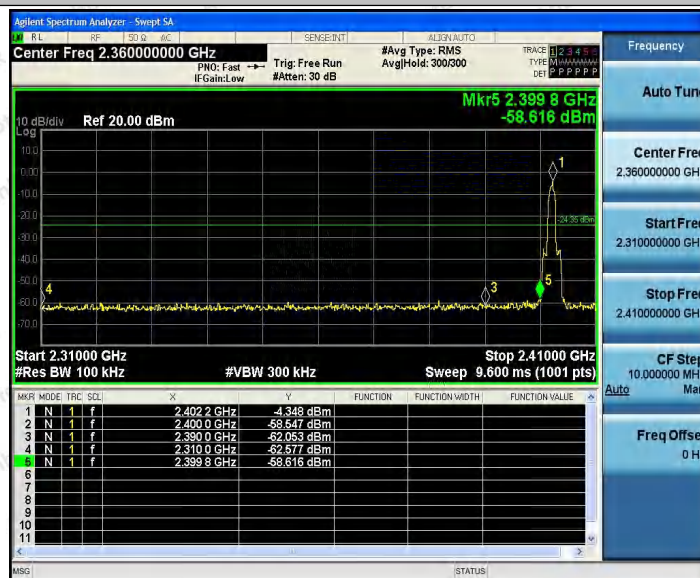
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

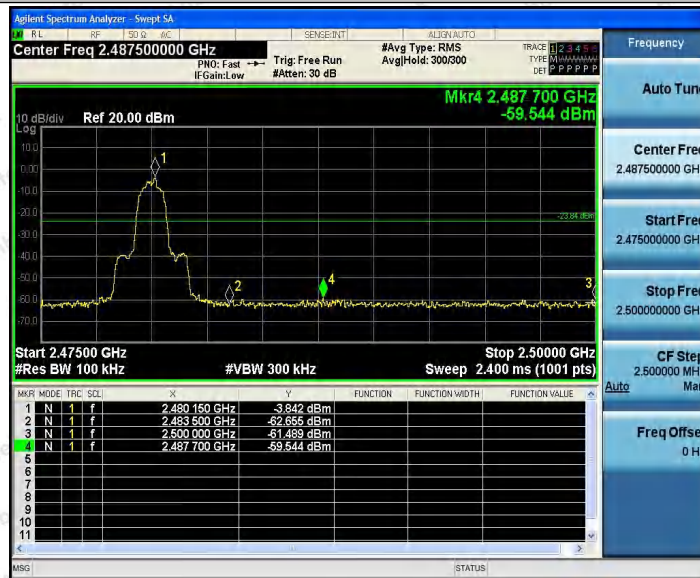


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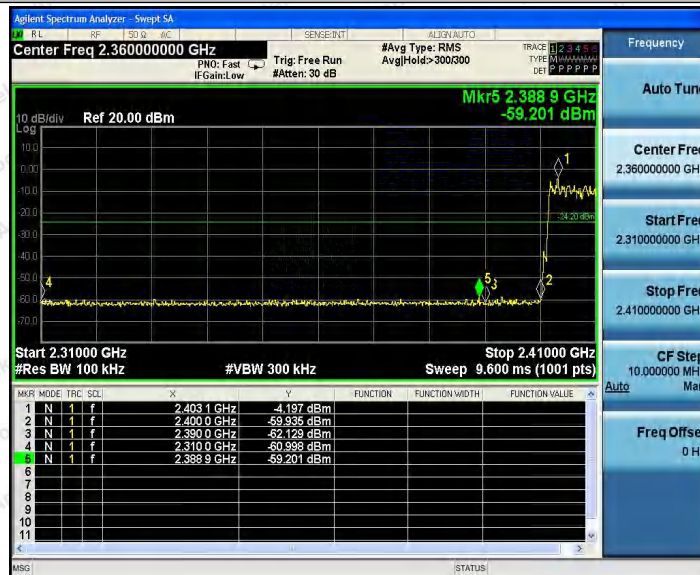
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



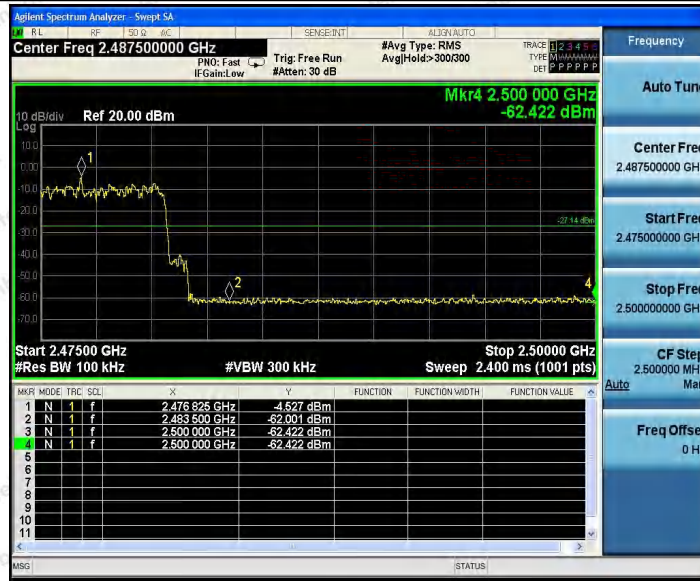
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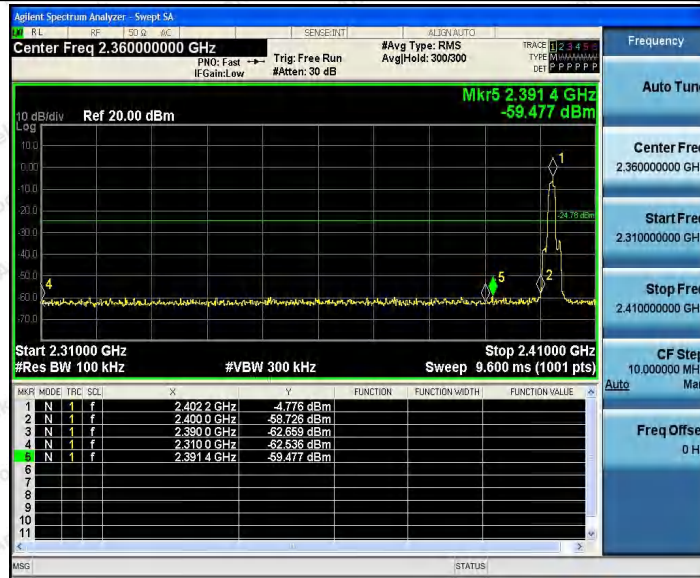
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

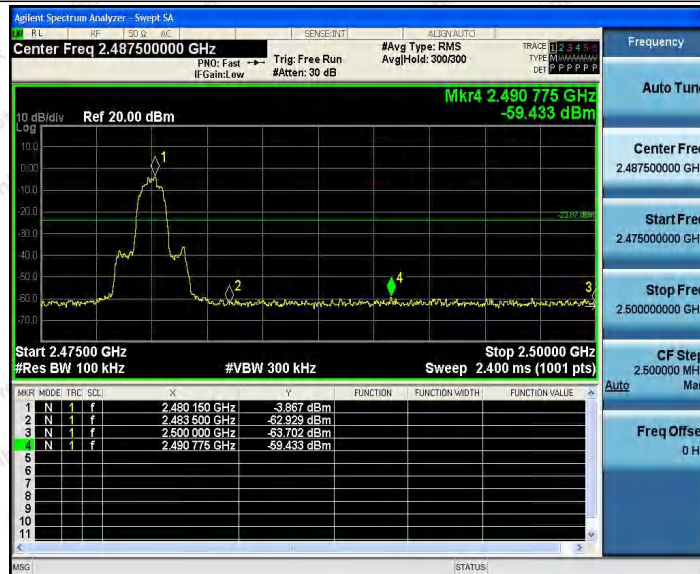
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3DH5_Ant1_Low_2402



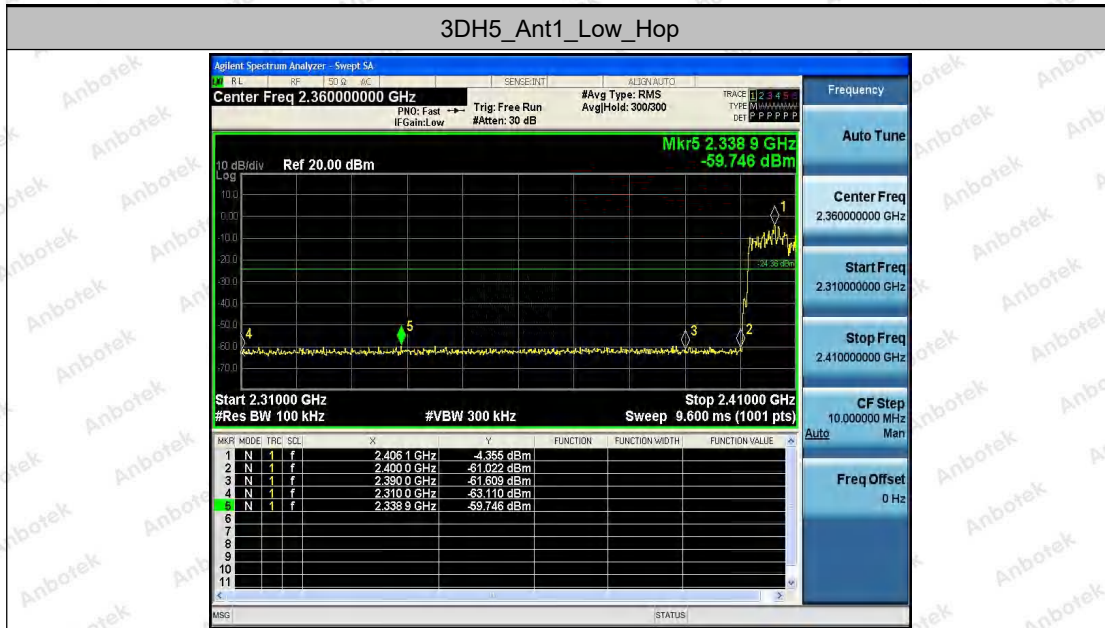
3DH5_Ant1_High_2480



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

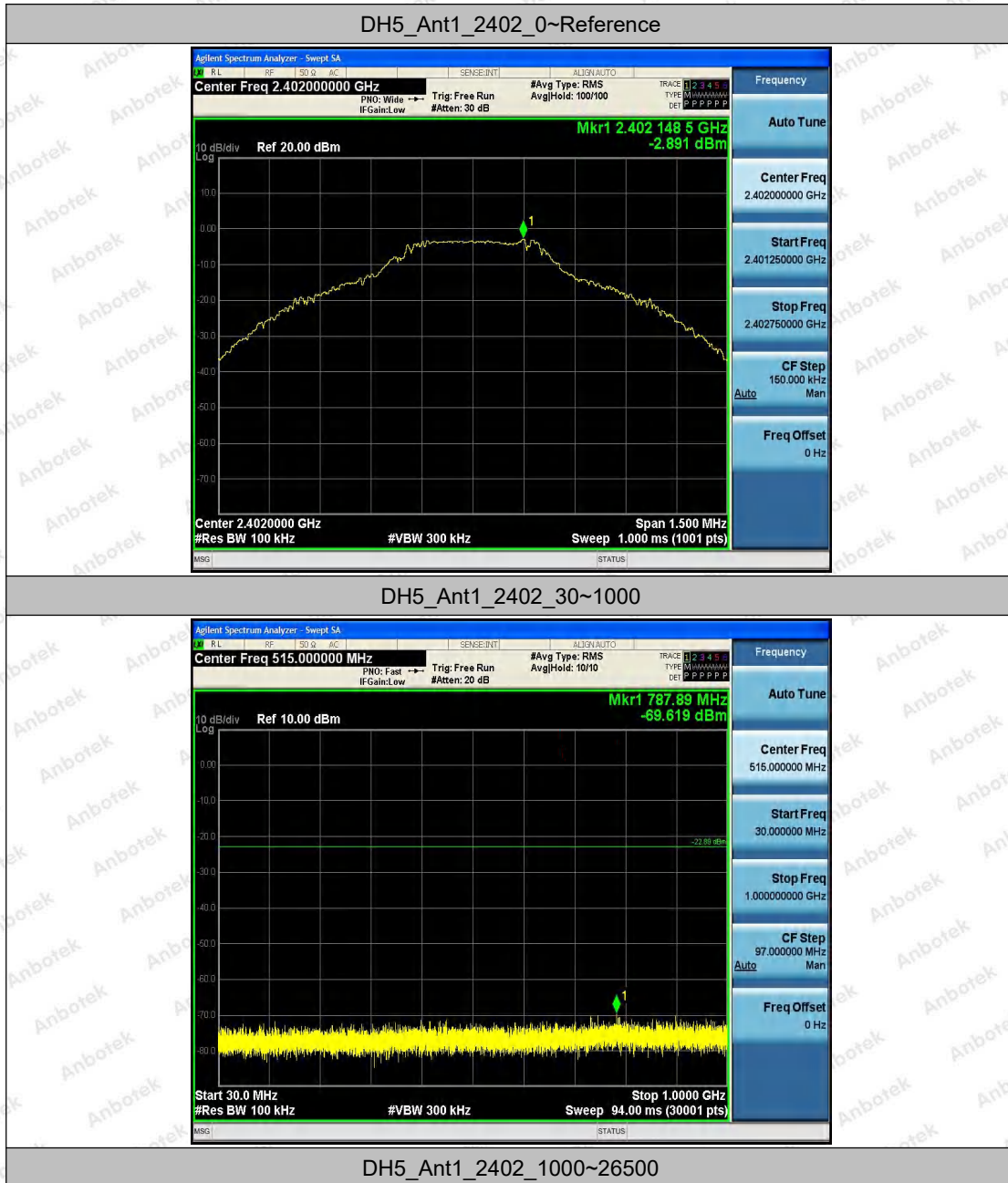
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.89	-2.89	---	PASS
			30~1000	-2.89	-69.62	≤-22.89	PASS
			1000~26500	-2.89	-55.18	≤-22.89	PASS
		2441	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-70.28	≤-23.04	PASS
			1000~26500	-3.04	-55.08	≤-23.04	PASS
		2480	Reference	-2.99	-2.99	---	PASS
			30~1000	-2.99	-70.32	≤-22.99	PASS
			1000~26500	-2.99	-54.99	≤-22.99	PASS
2DH5	Ant1	2402	Reference	-4.15	-4.15	---	PASS
			30~1000	-4.15	-70.57	≤-24.15	PASS
			1000~26500	-4.15	-54.87	≤-24.15	PASS
		2441	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-70.57	≤-24.24	PASS
			1000~26500	-4.24	-55.75	≤-24.24	PASS
		2480	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-70.63	≤-24.64	PASS
			1000~26500	-4.64	-54.68	≤-24.64	PASS
3DH5	Ant1	2402	Reference	-4.25	-4.25	---	PASS
			30~1000	-4.25	-70.21	≤-24.25	PASS
			1000~26500	-4.25	-54.57	≤-24.25	PASS
		2441	Reference	-4.82	-4.82	---	PASS
			30~1000	-4.82	-70.43	≤-24.82	PASS
			1000~26500	-4.82	-55.44	≤-24.82	PASS
		2480	Reference	-4.79	-4.79	---	PASS
			30~1000	-4.79	-70.18	≤-24.79	PASS
			1000~26500	-4.79	-55.66	≤-24.79	PASS

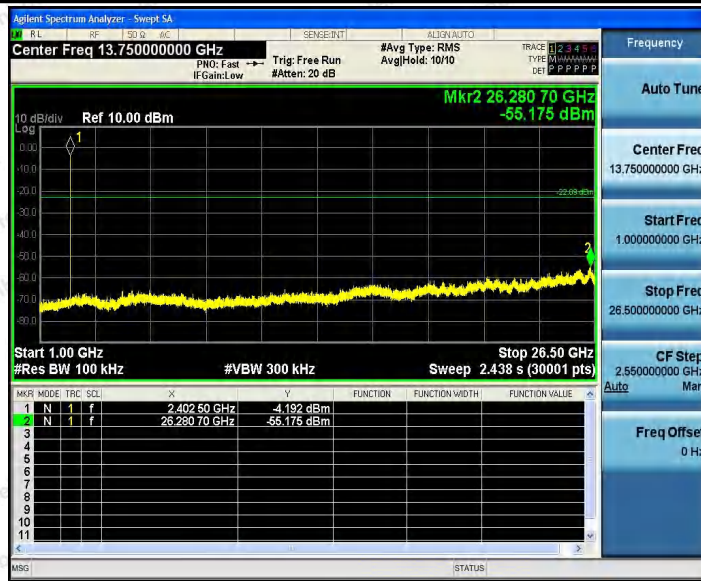
Test Graphs



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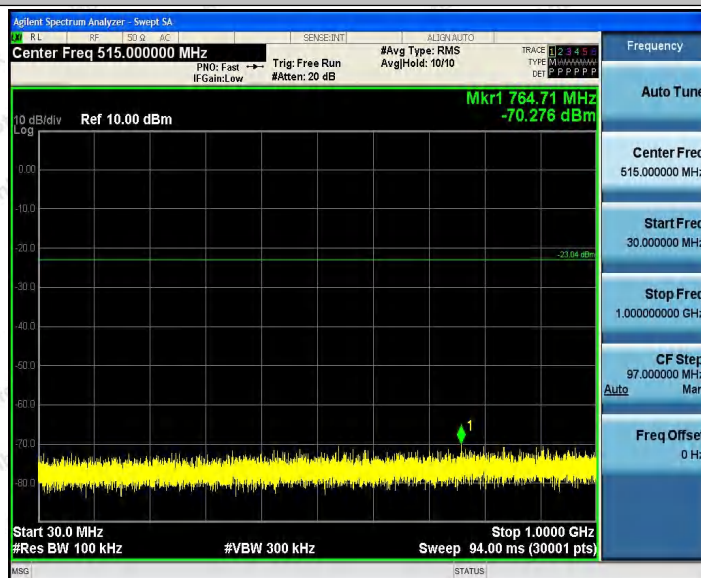
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DH5_Ant1_2441_0~Reference



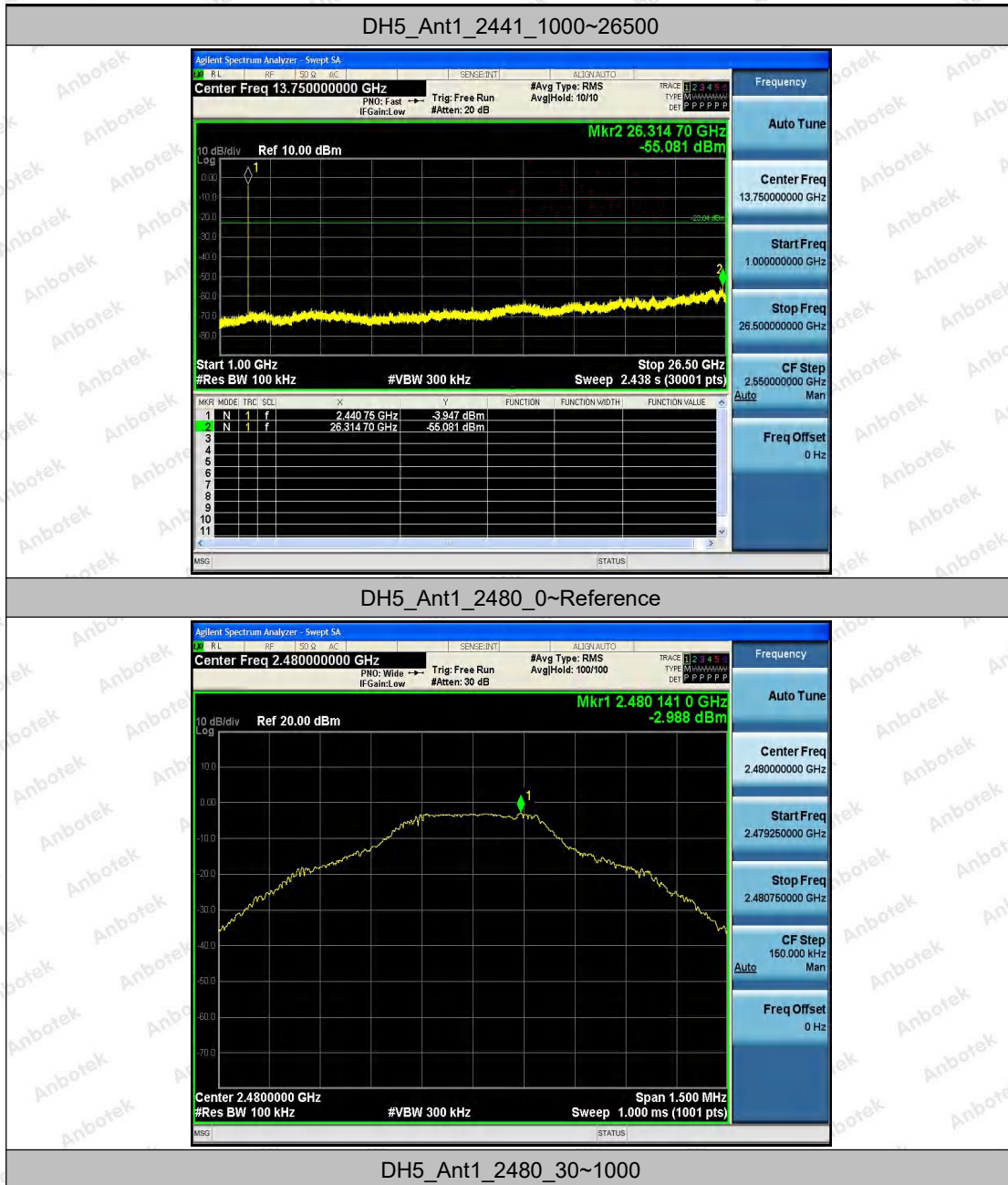
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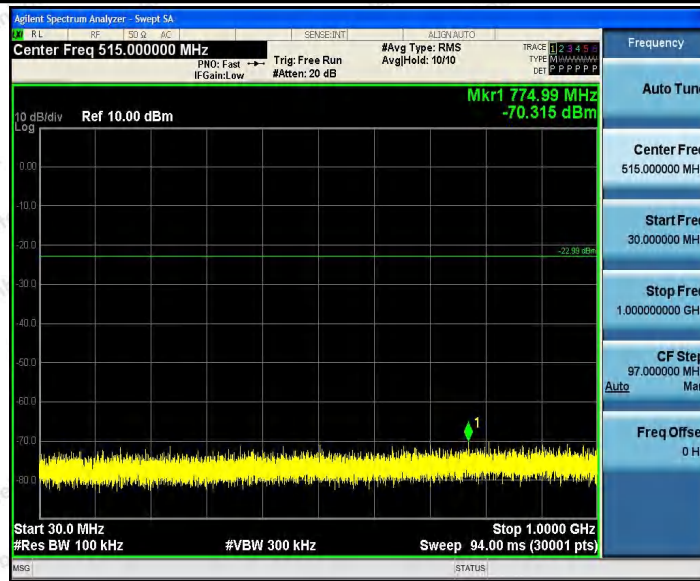


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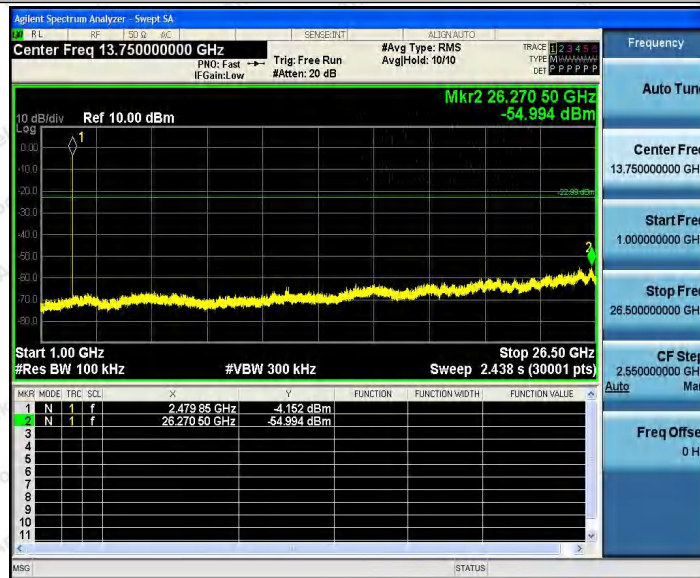
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DH5_Ant1_2480_1000~26500



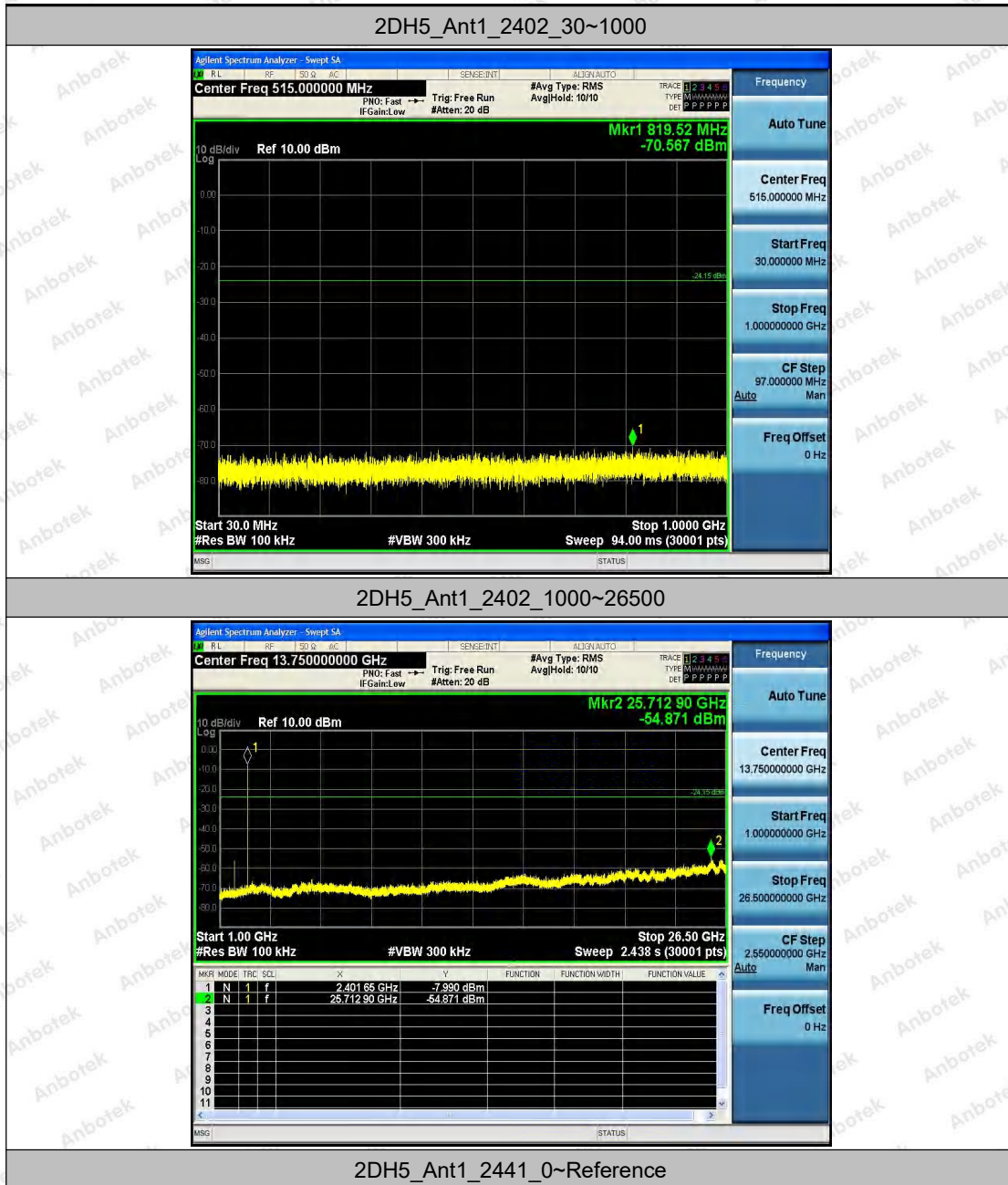
2DH5_Ant1_2402_0~Reference



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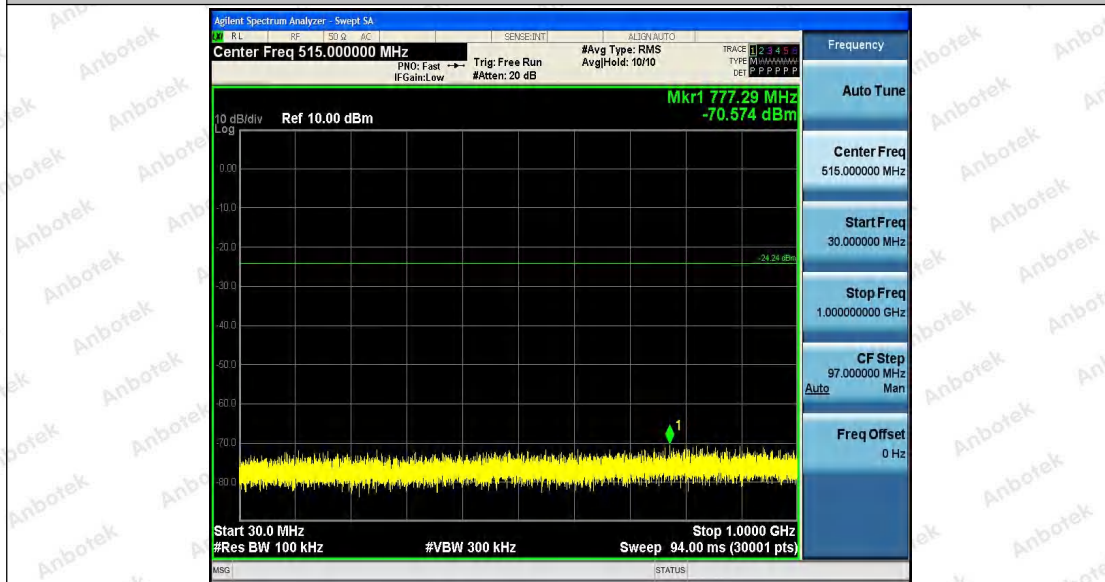
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

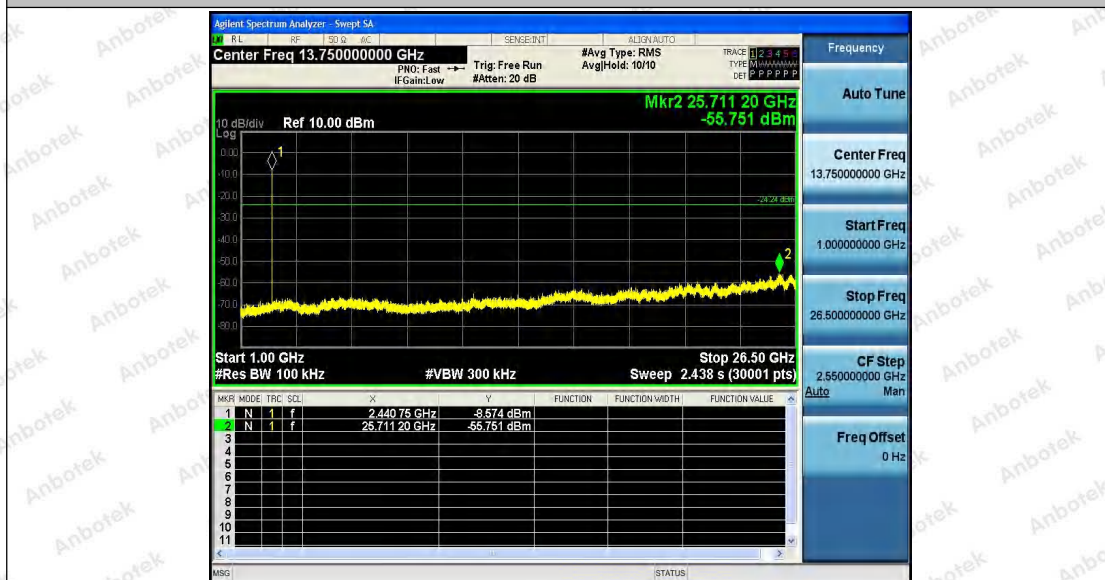
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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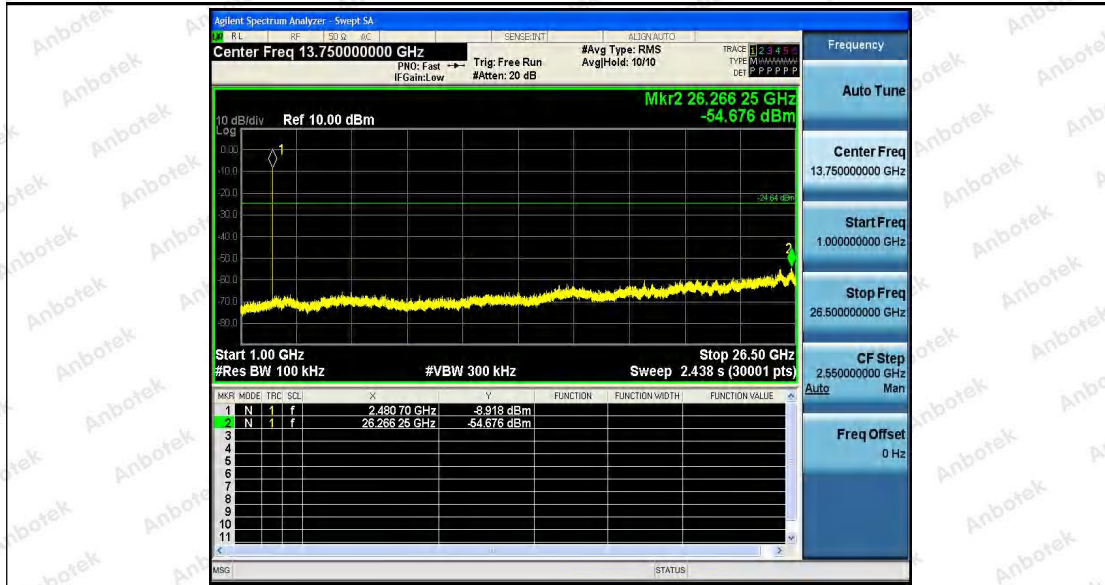
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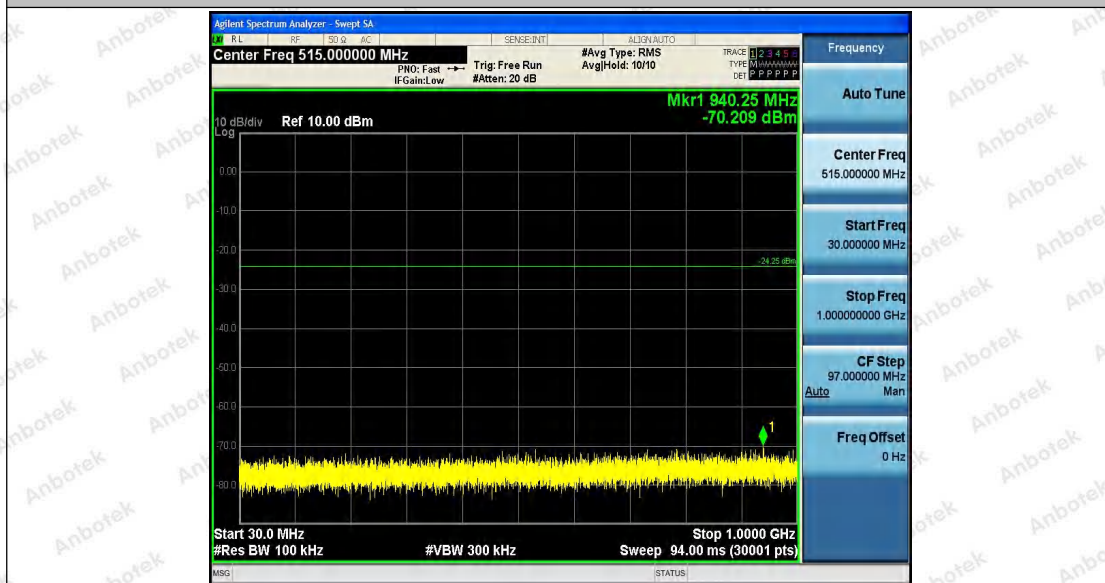
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

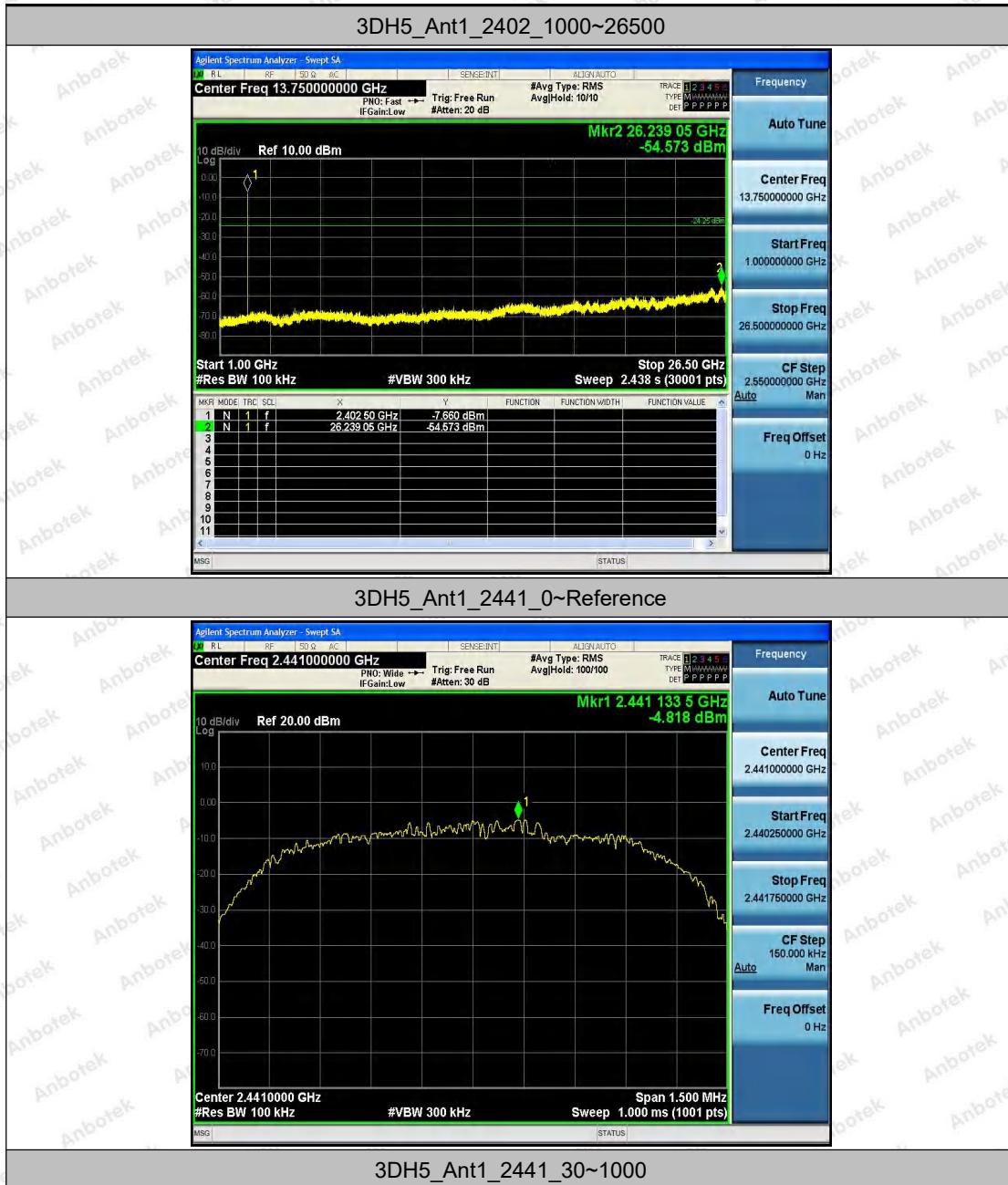


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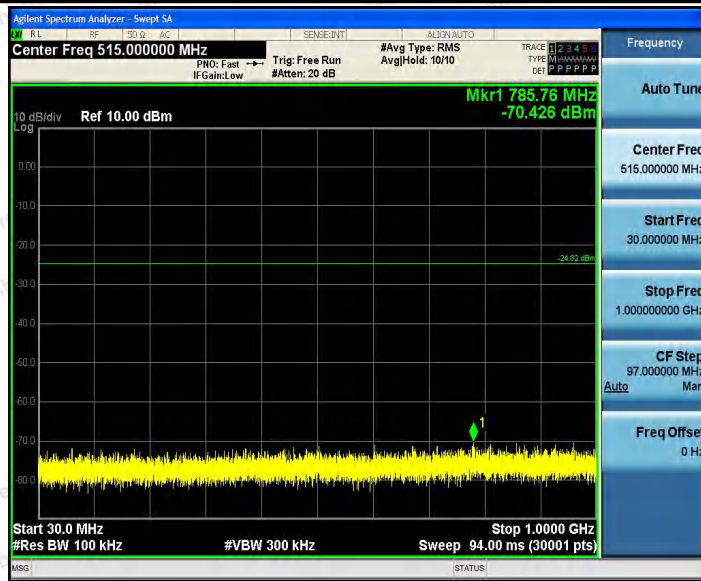


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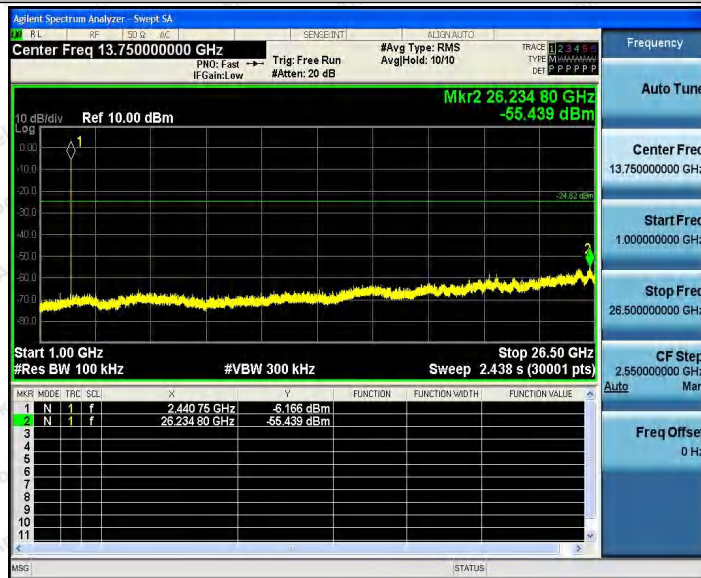
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

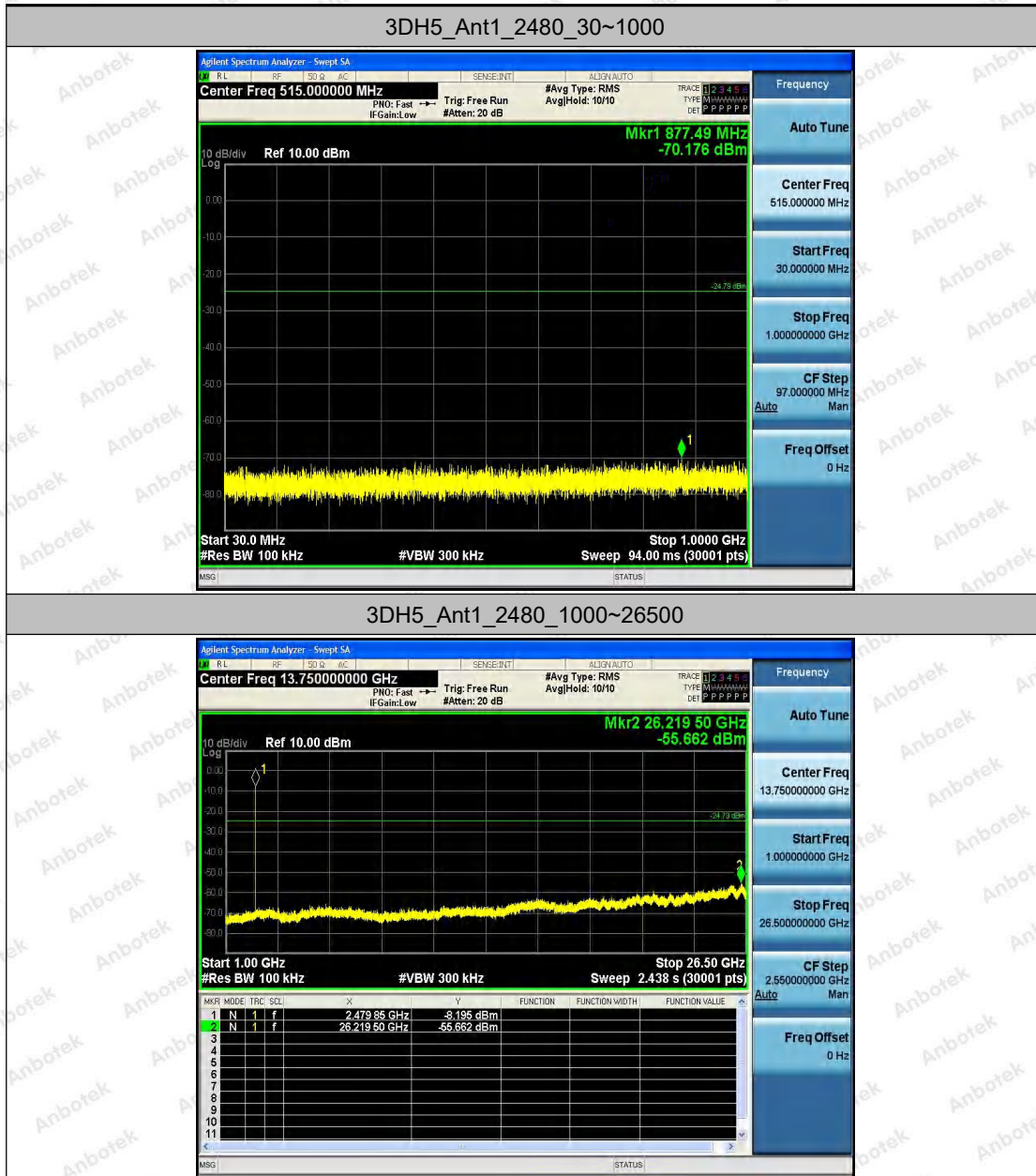


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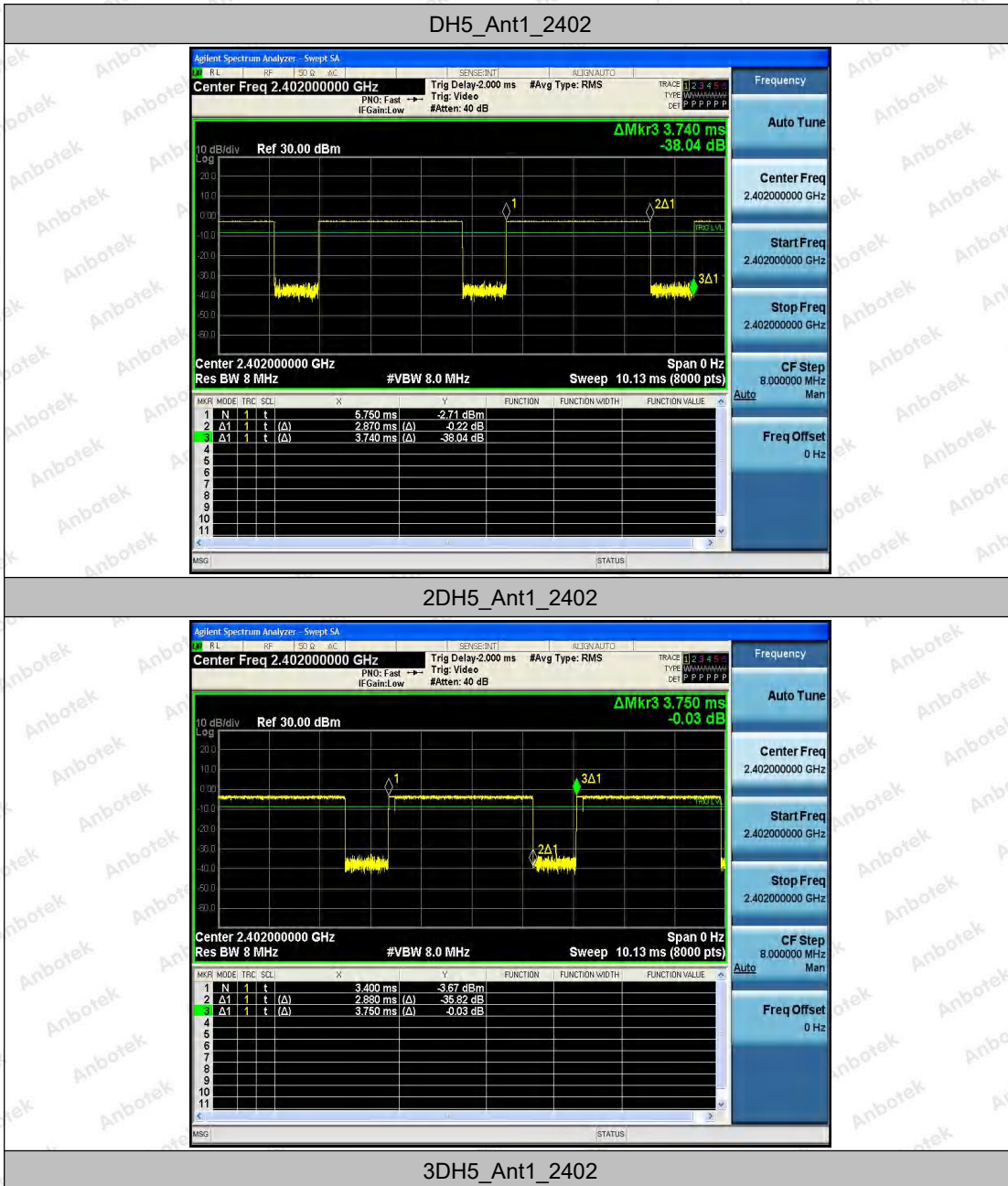
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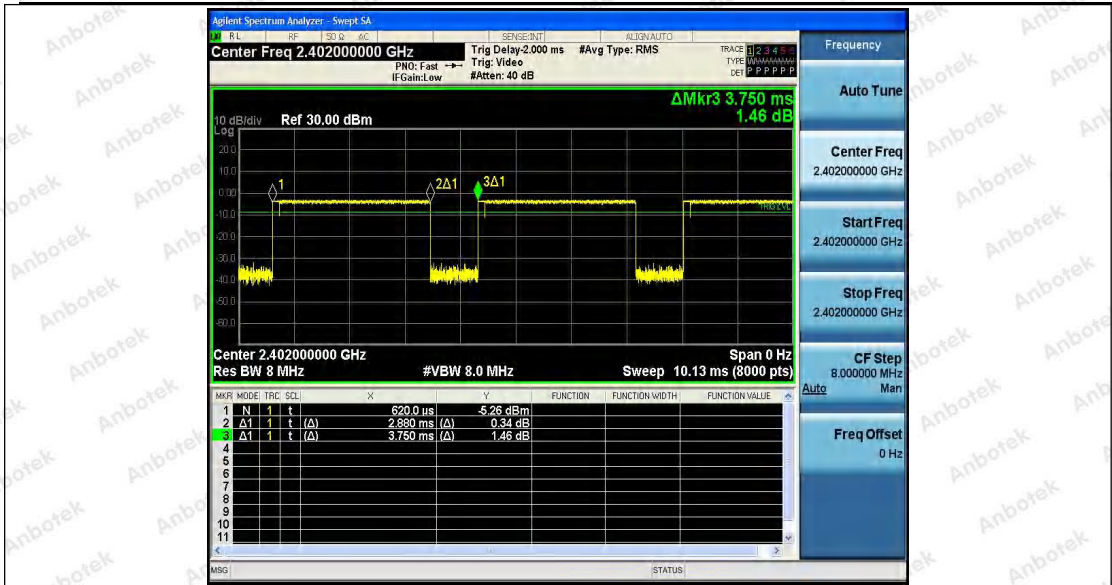
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	x Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.7674	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---