

Appendix Test Data

Report No.:	18220WC20055601	Test Sample No.:	1-2-2
Start Test Date:	2022.3.24	Finish Test Date:	2022.3.25
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	0.951	2401.535	2402.486	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.951	2479.535	2480.486	---	PASS
2DH5	Ant1	2402	1.269	2401.364	2402.633	---	PASS
		2441	1.272	2440.364	2441.636	---	PASS
		2480	1.347	2479.328	2480.675	---	PASS
3DH5	Ant1	2402	1.272	2401.349	2402.621	---	PASS
		2441	1.314	2440.343	2441.657	---	PASS
		2480	1.293	2479.349	2480.642	---	PASS

Test Graphs





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

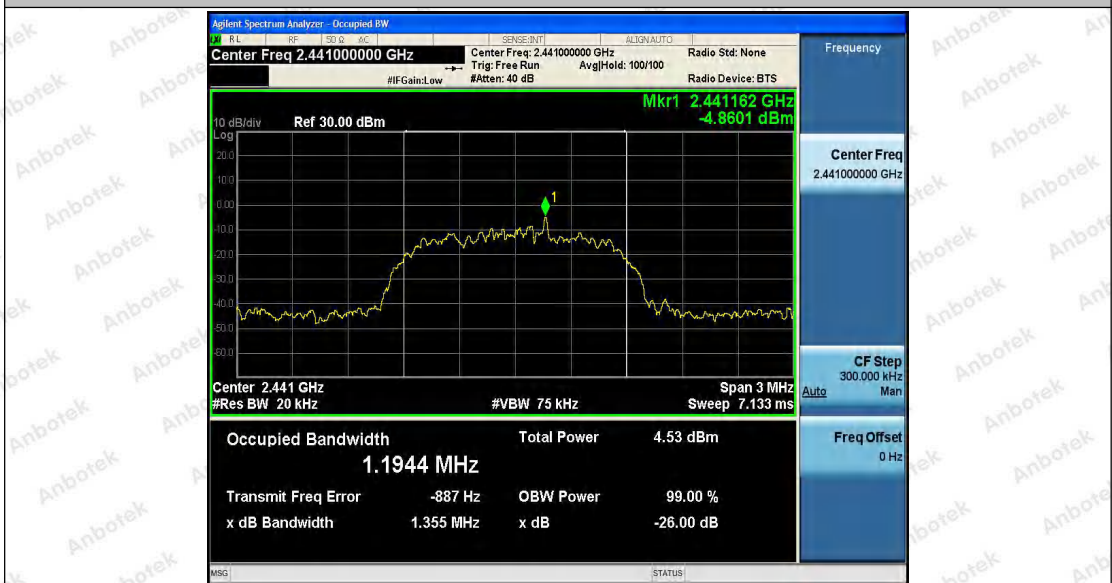
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88756	2401.555	2402.442	---	PASS
		2441	0.88990	2440.554	2441.444	---	PASS
		2480	0.89585	2479.551	2480.447	---	PASS
2DH5	Ant1	2402	1.2071	2401.395	2402.602	---	PASS
		2441	1.1944	2440.402	2441.596	---	PASS
		2480	1.1852	2479.407	2480.592	---	PASS
3DH5	Ant1	2402	1.2138	2401.383	2402.597	---	PASS
		2441	1.2123	2440.384	2441.596	---	PASS
		2480	1.2053	2479.388	2480.593	---	PASS



2DH5_Ant1_2402



2DH5_Ant1_2441

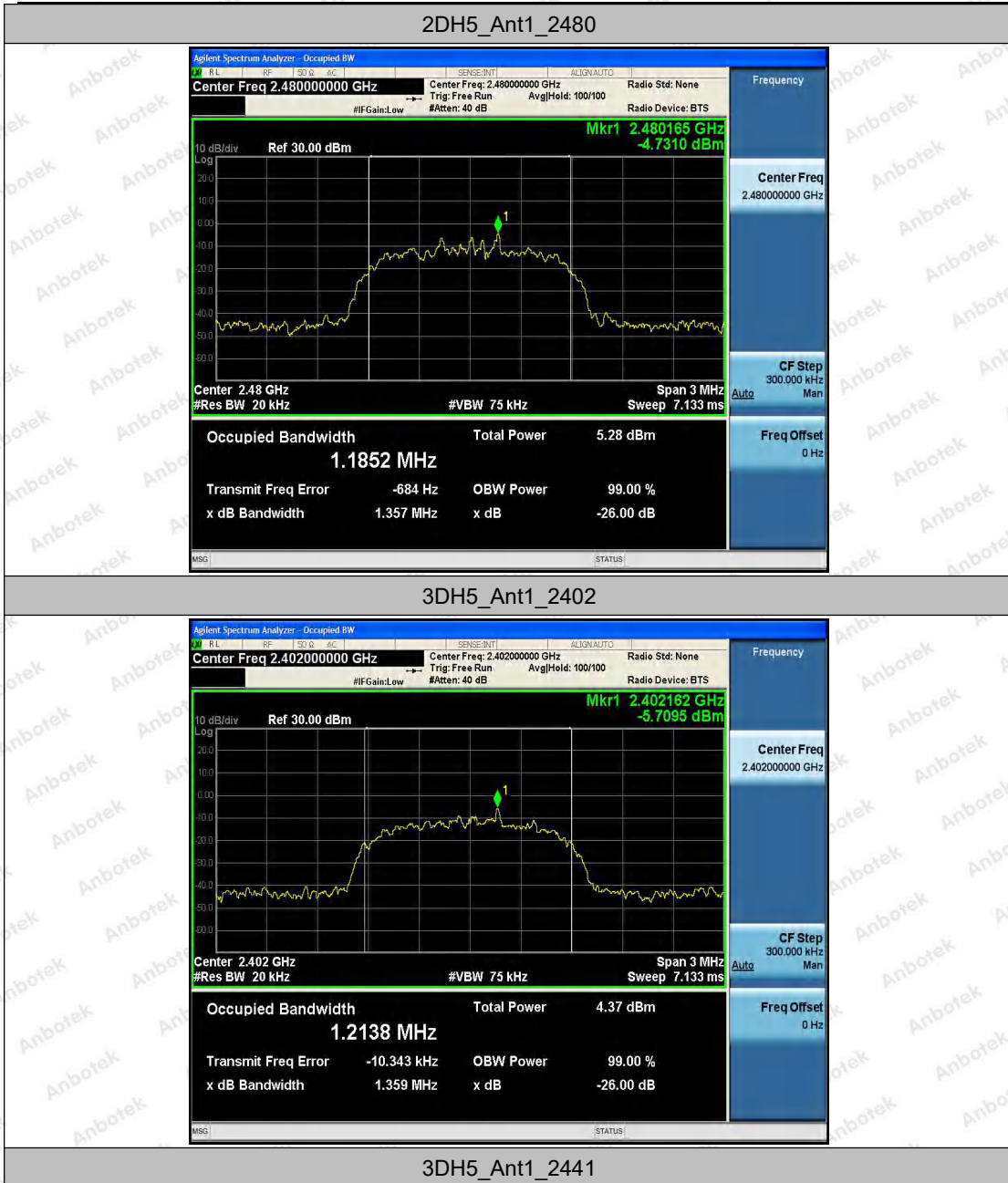


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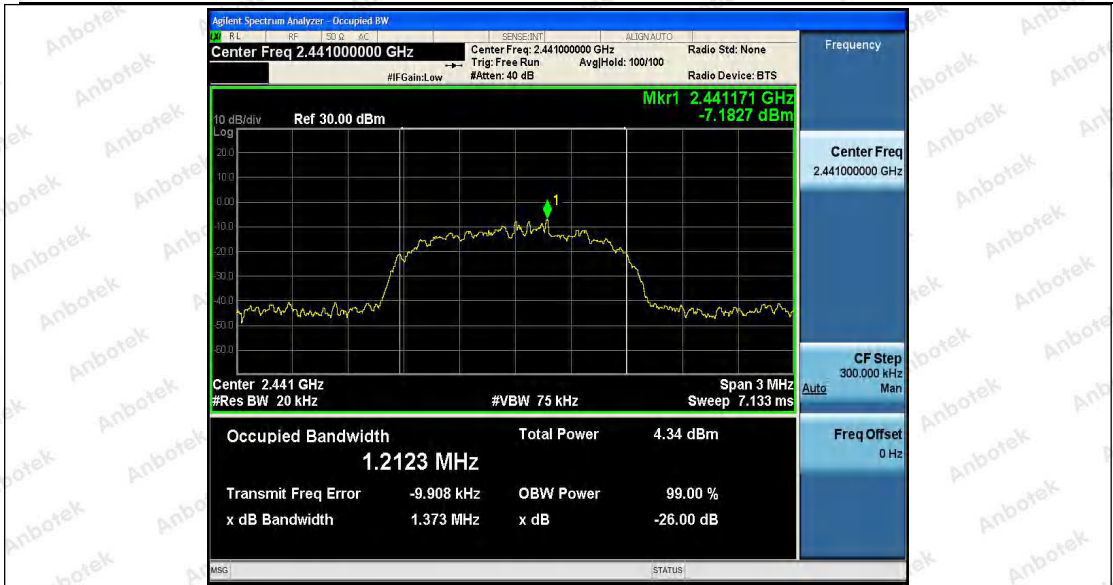


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3DH5_Ant1_2480



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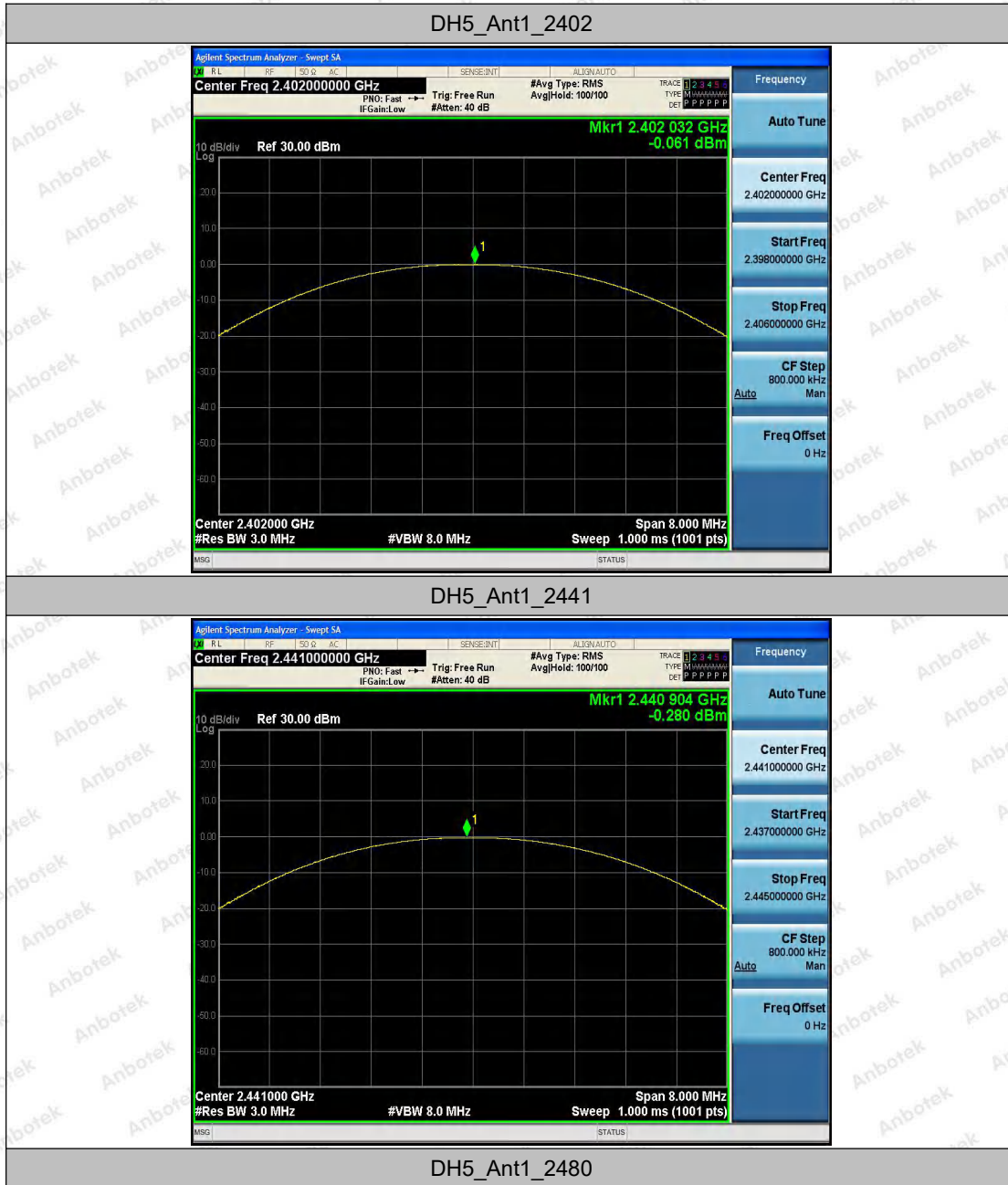
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.06	≤20.97	PASS
		2441	-0.28	≤20.97	PASS
		2480	0.52	≤20.97	PASS
2DH5	Ant1	2402	-0.6	≤20.97	PASS
		2441	-0.85	≤20.97	PASS
		2480	-0.13	≤20.97	PASS
3DH5	Ant1	2402	-0.51	≤20.97	PASS
		2441	-0.69	≤20.97	PASS
		2480	-0.11	≤20.97	PASS

Test Graphs



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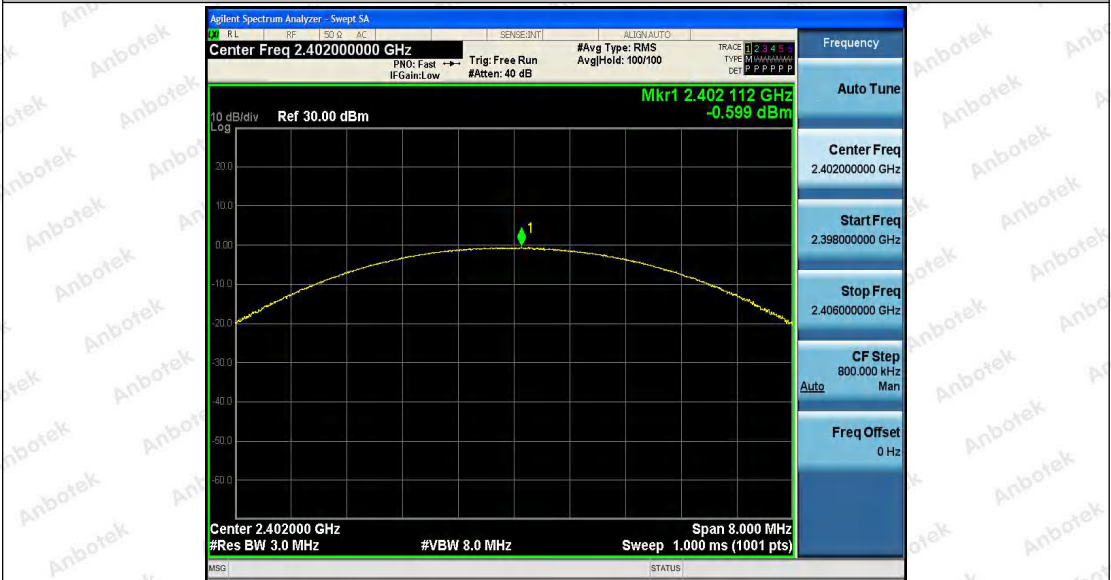
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2DH5_Ant1_2402



2DH5_Ant1_2441



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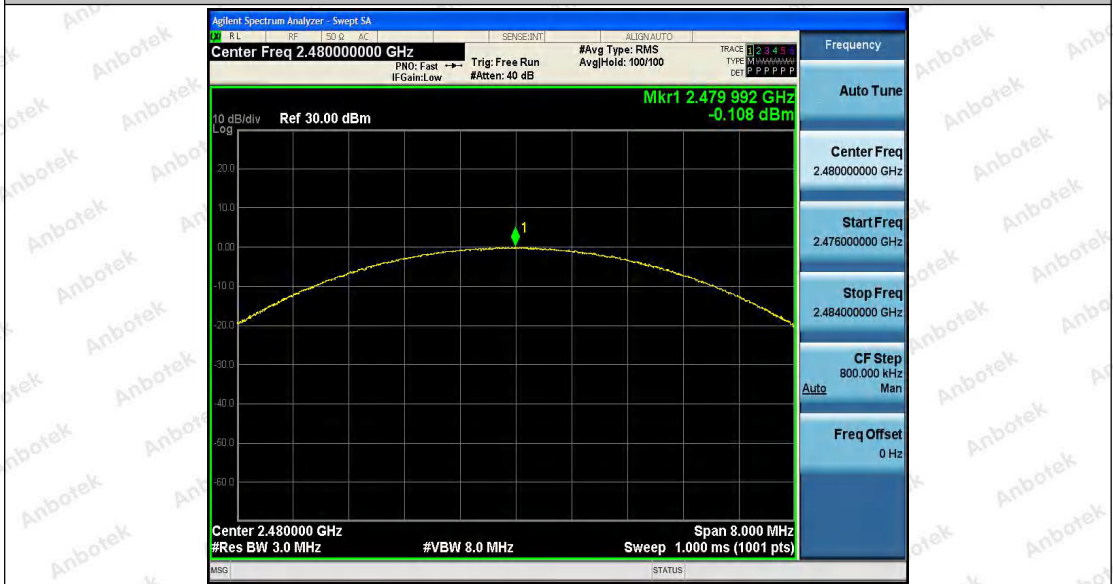
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.951	PASS
2DH5	Ant1	Hop	1.002	≥ 0.898	PASS
3DH5	Ant1	Hop	1.006	≥ 0.876	PASS

Test Graphs





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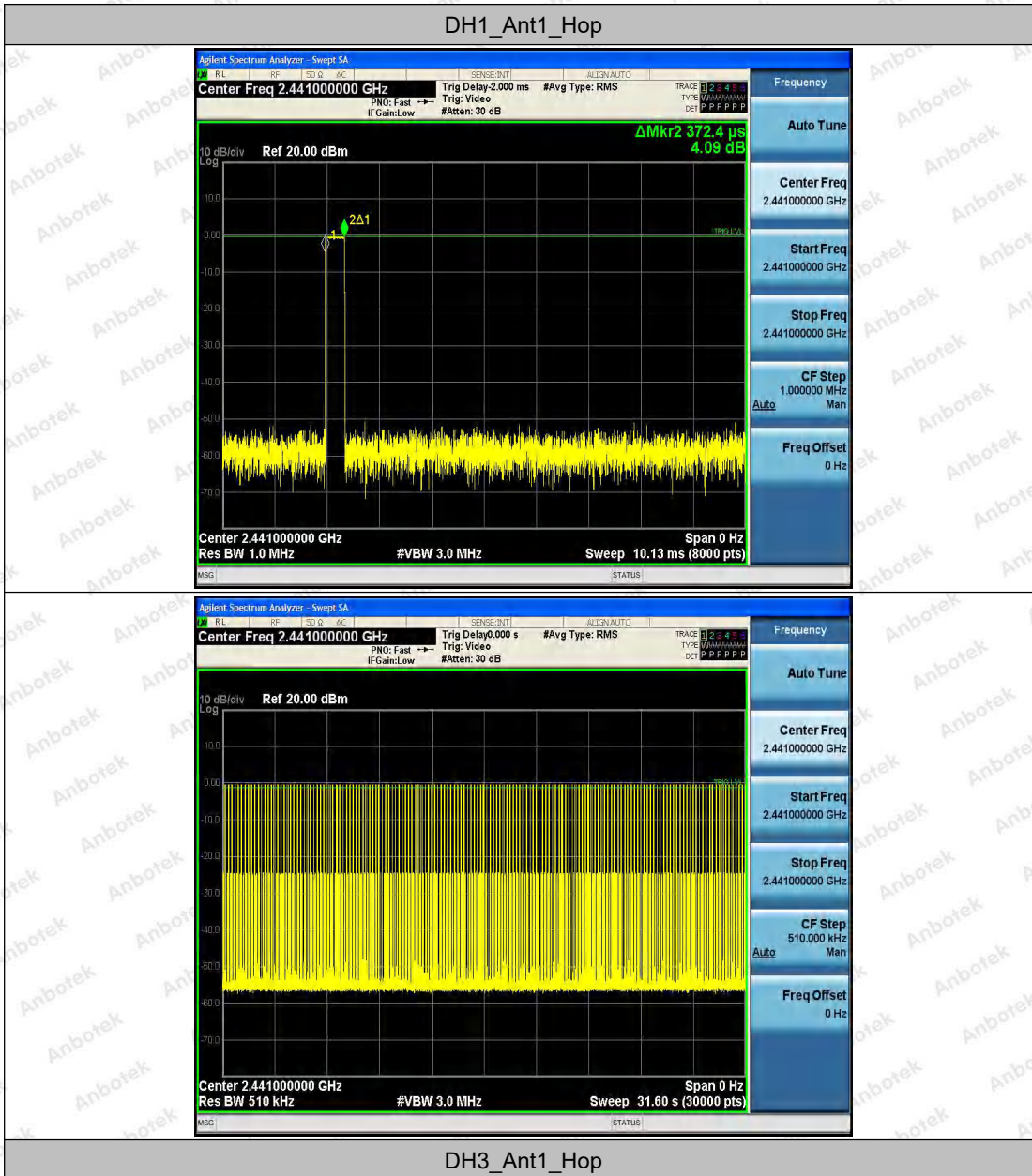
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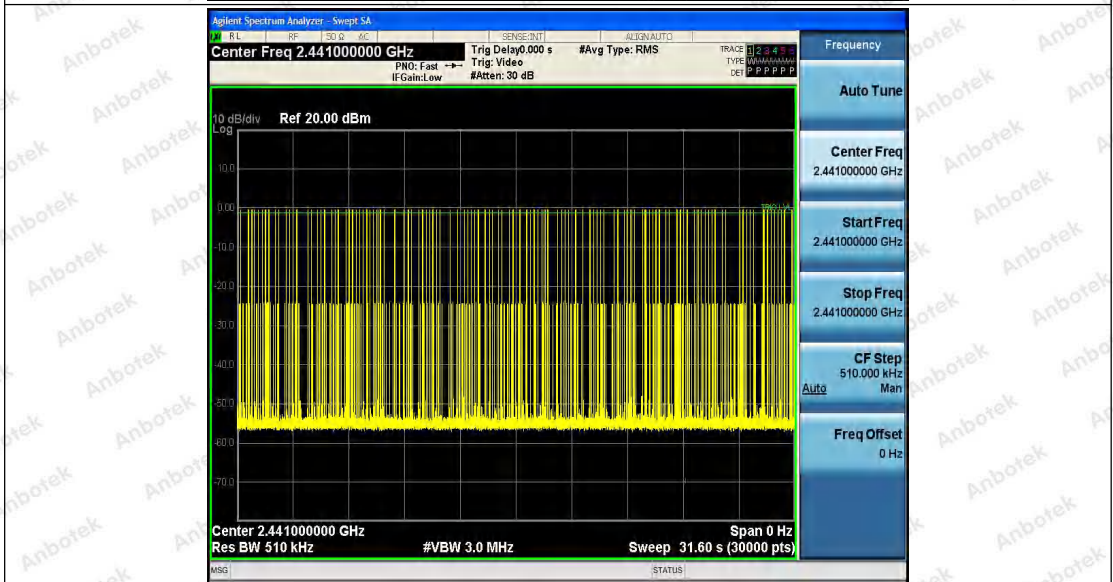
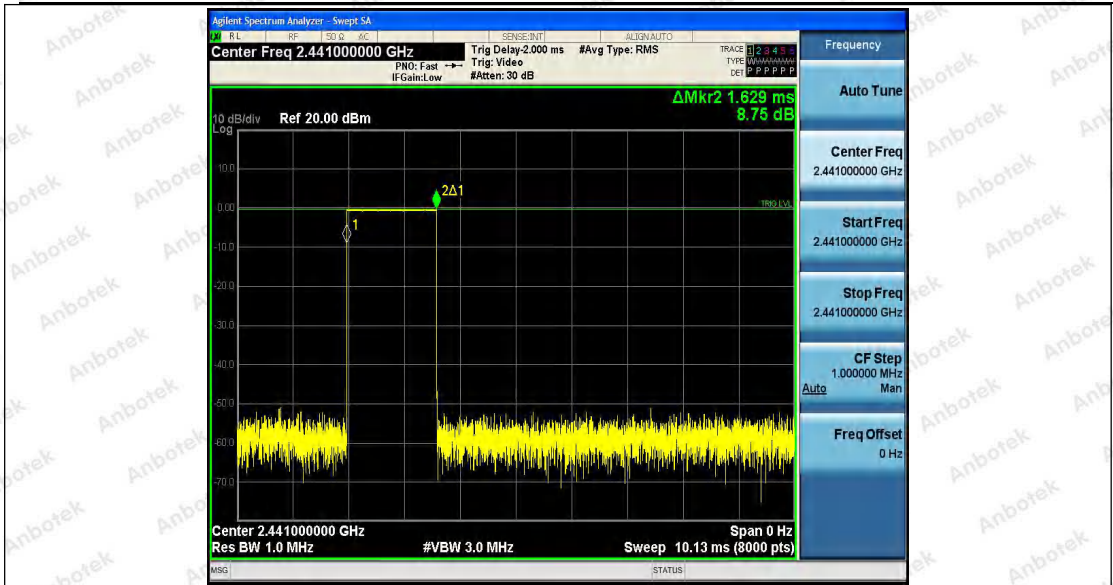
Appendix E: Time of occupancy

Test Result

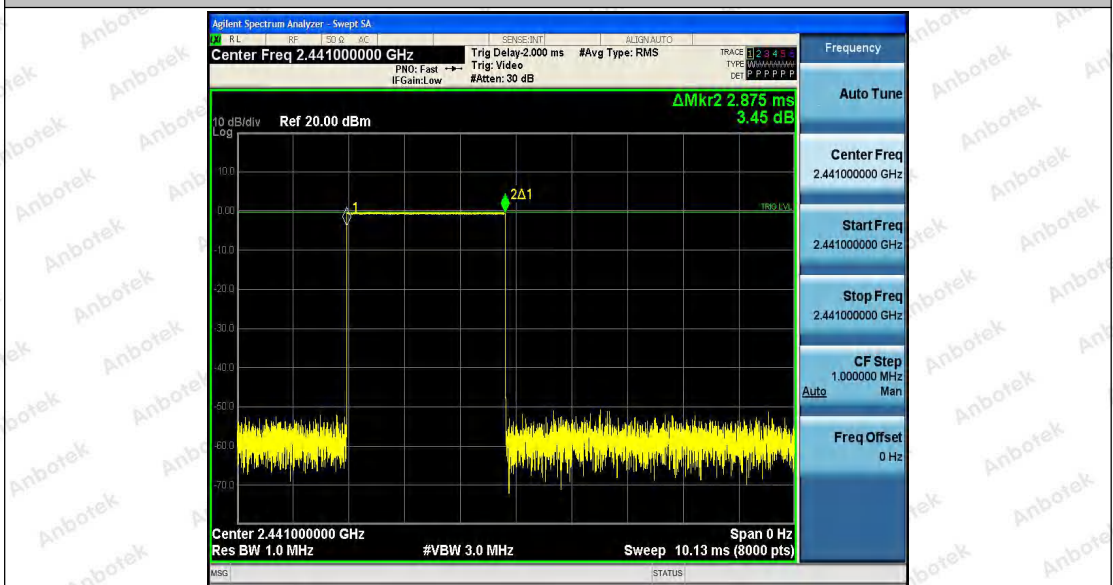
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	155	0.252	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	103	0.297	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

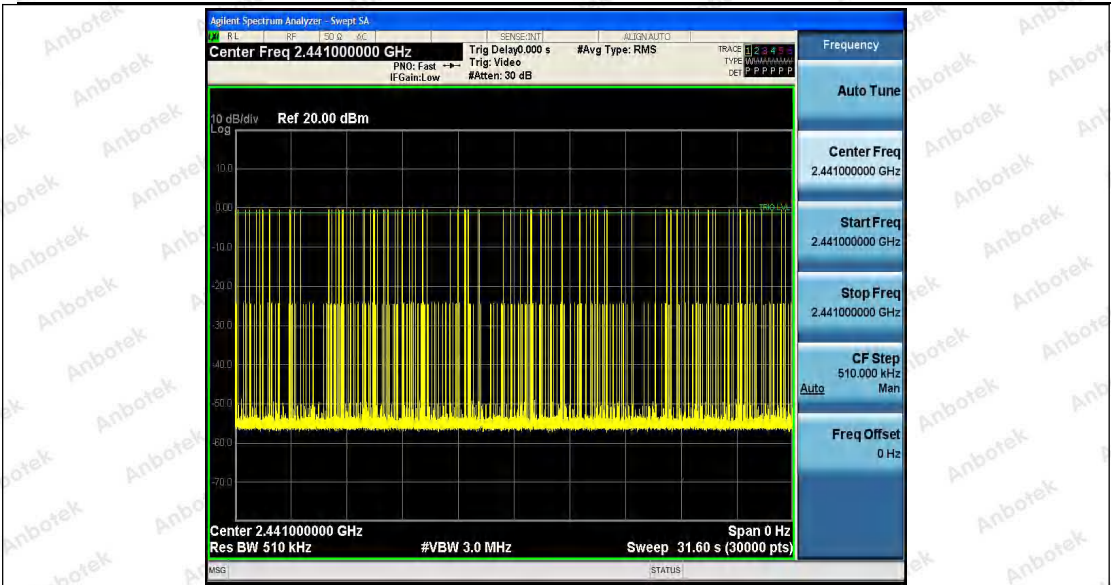


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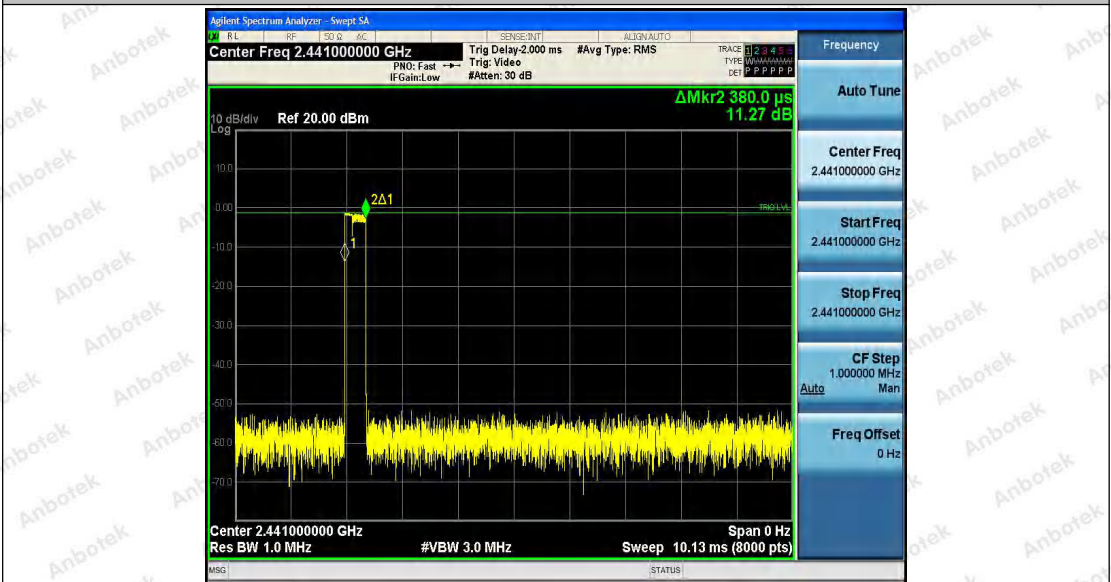
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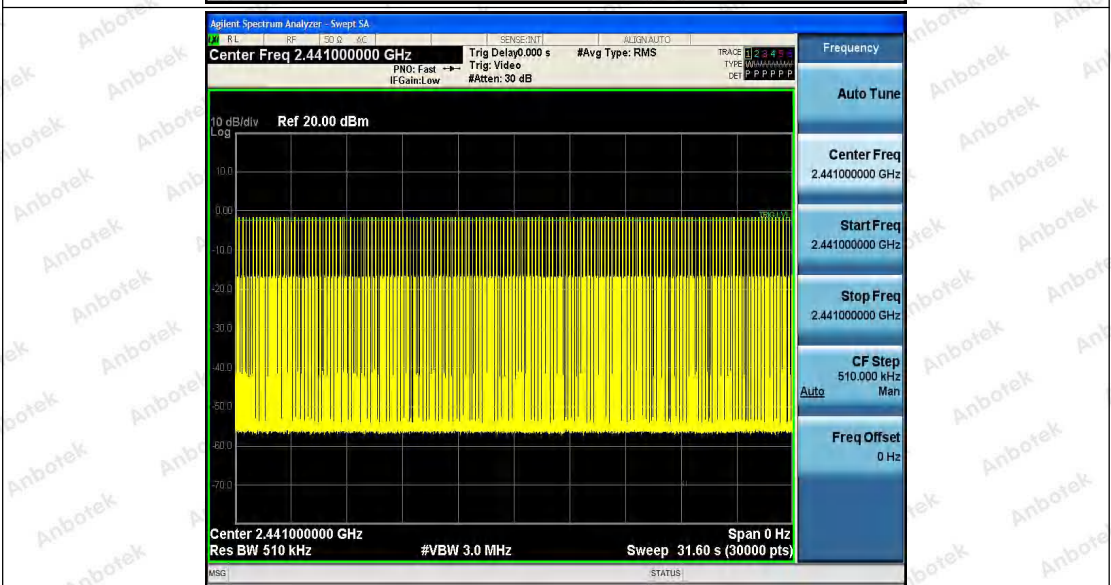
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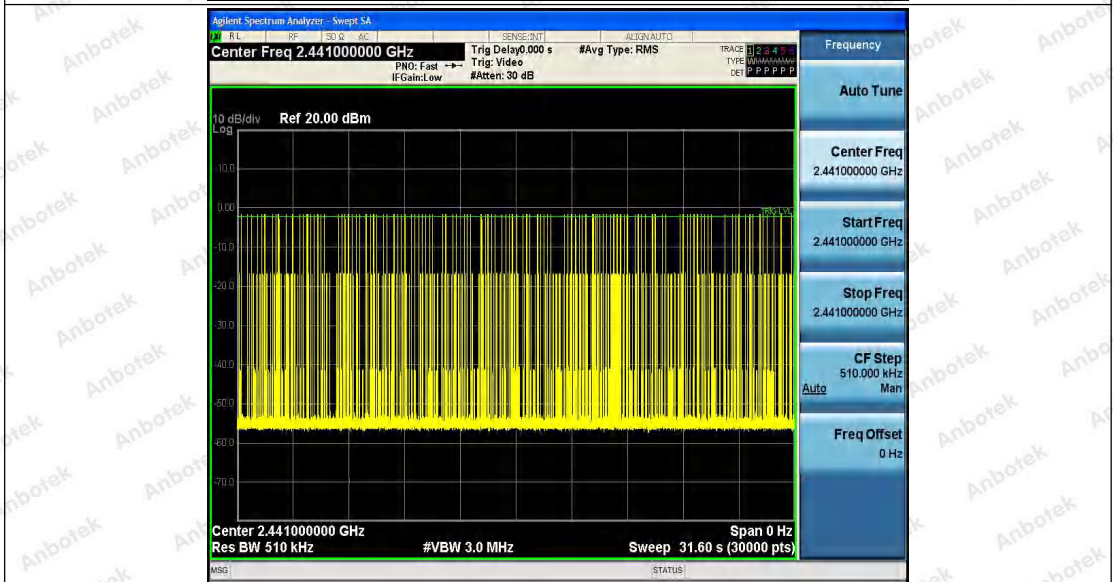
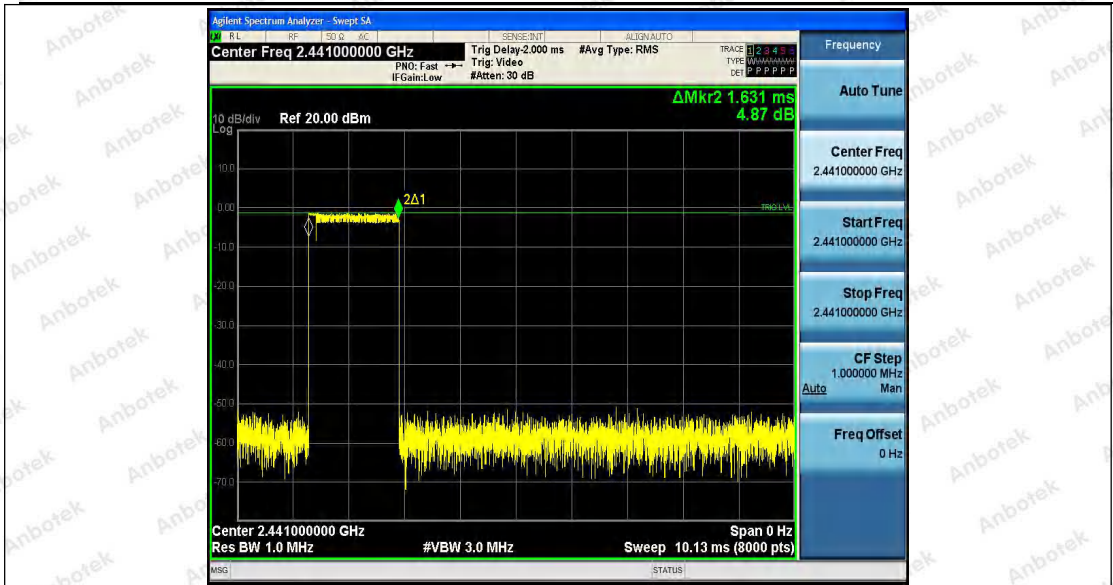


2DH1_Ant1_Hop

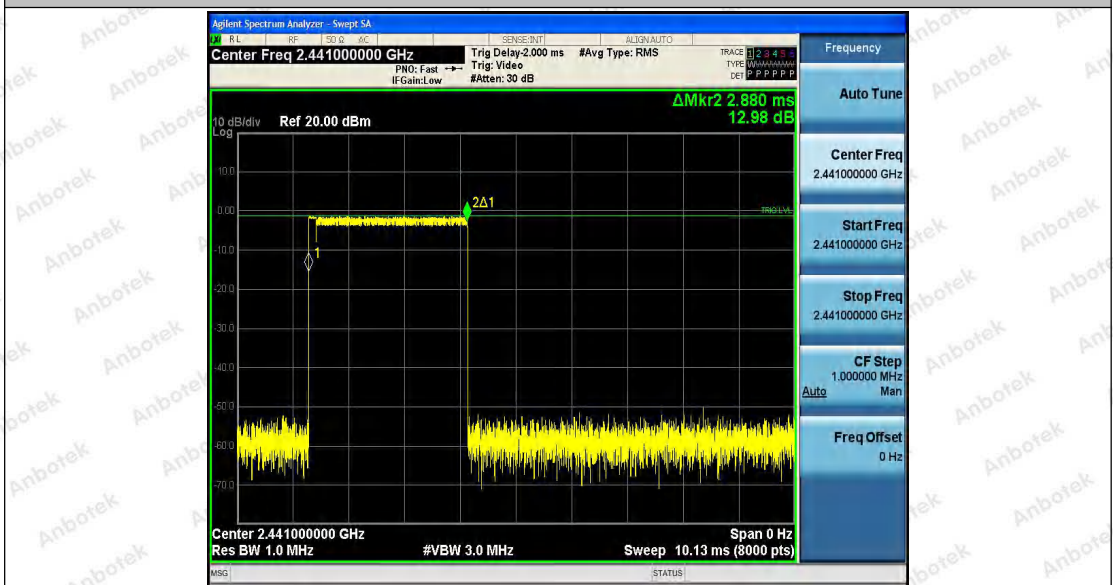


2DH3_Ant1_Hop





2DH5_Ant1_Hop

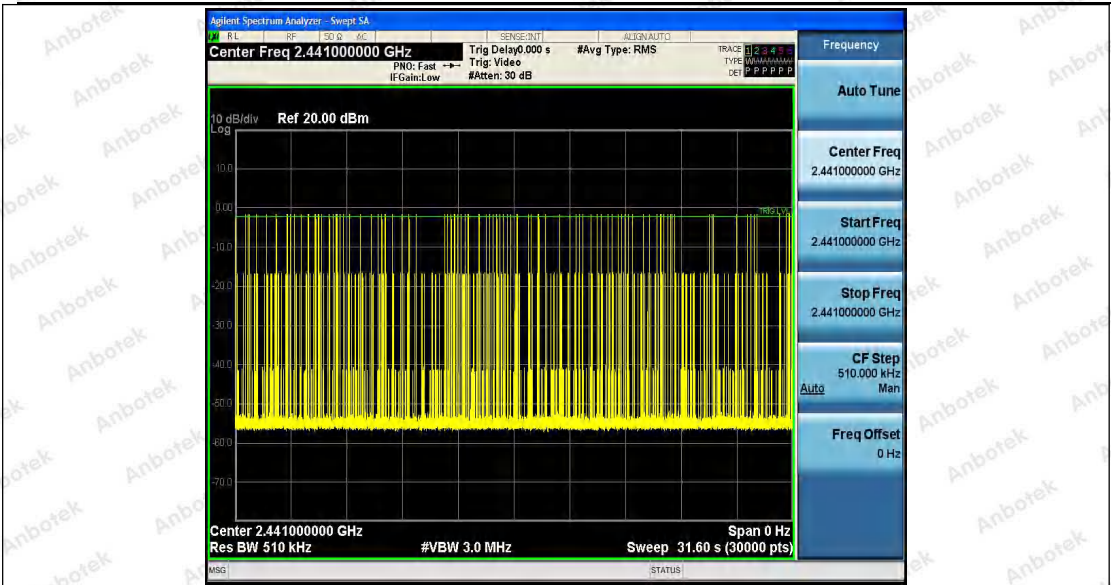


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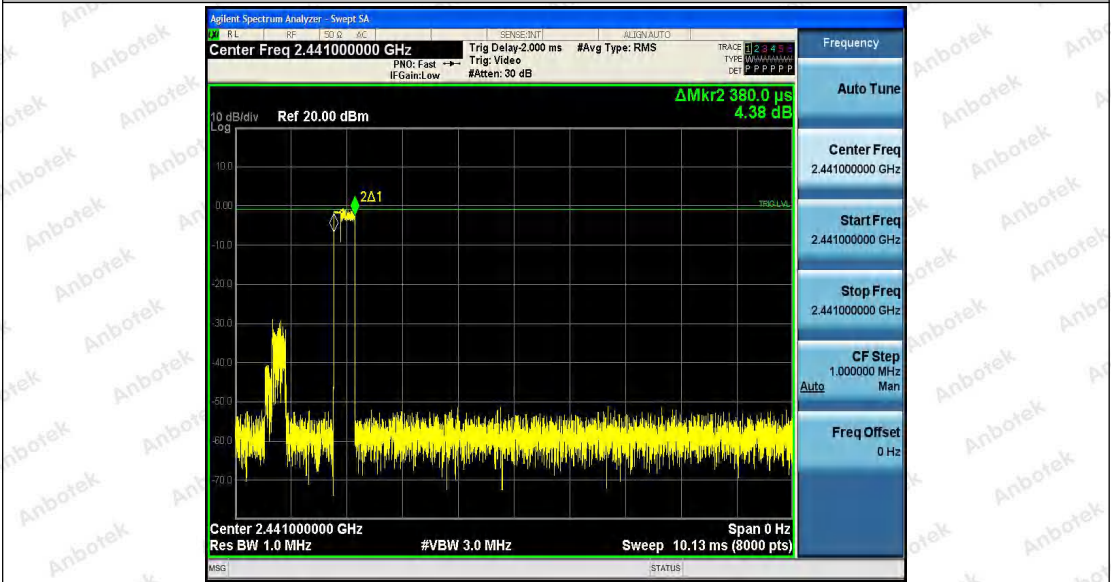
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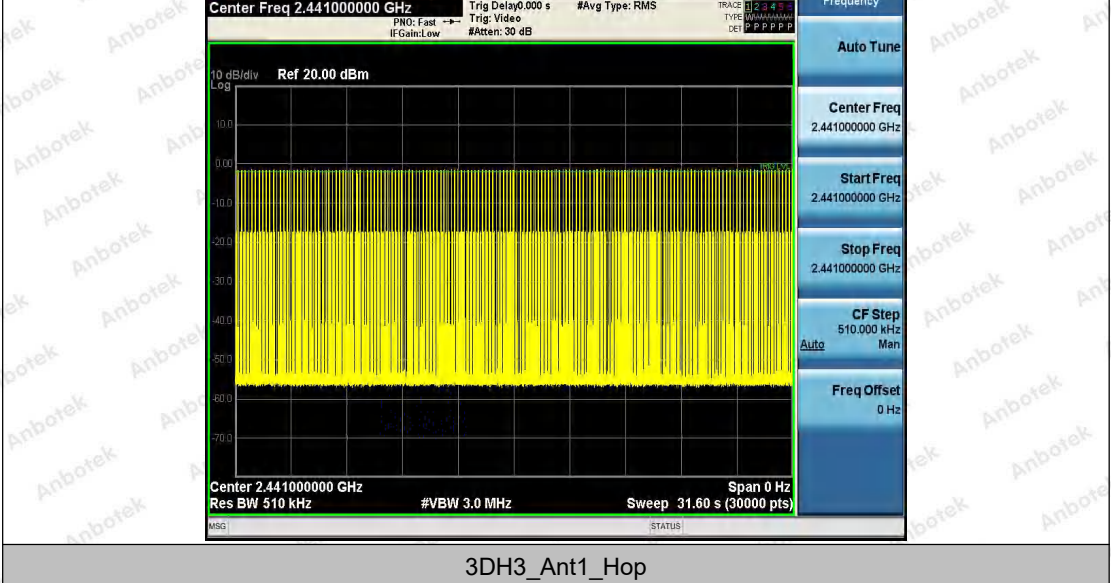
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3DH1_Ant1_Hop



3DH1_Ant1_Hop

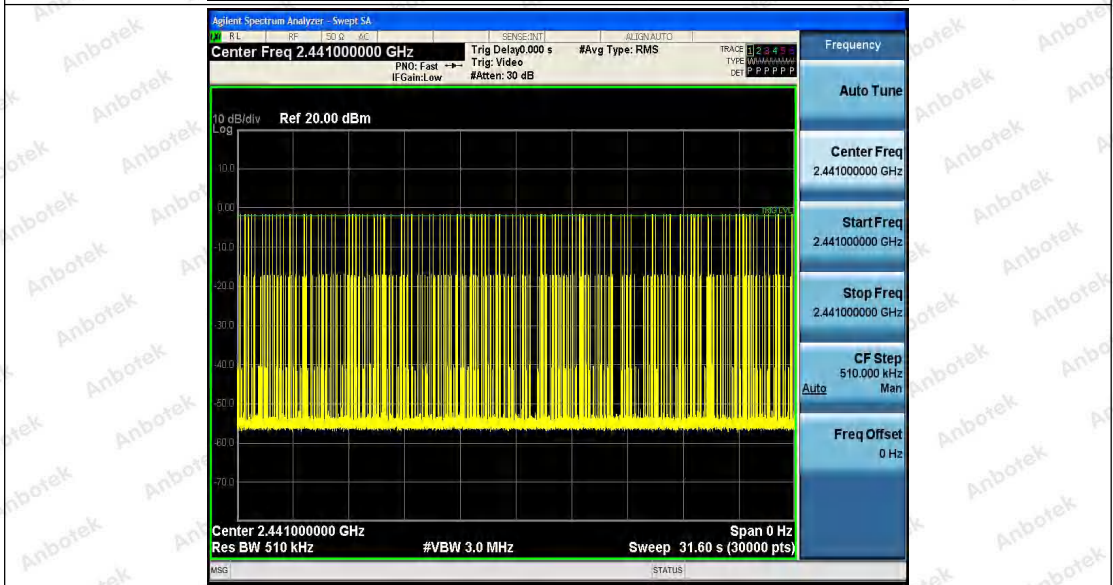
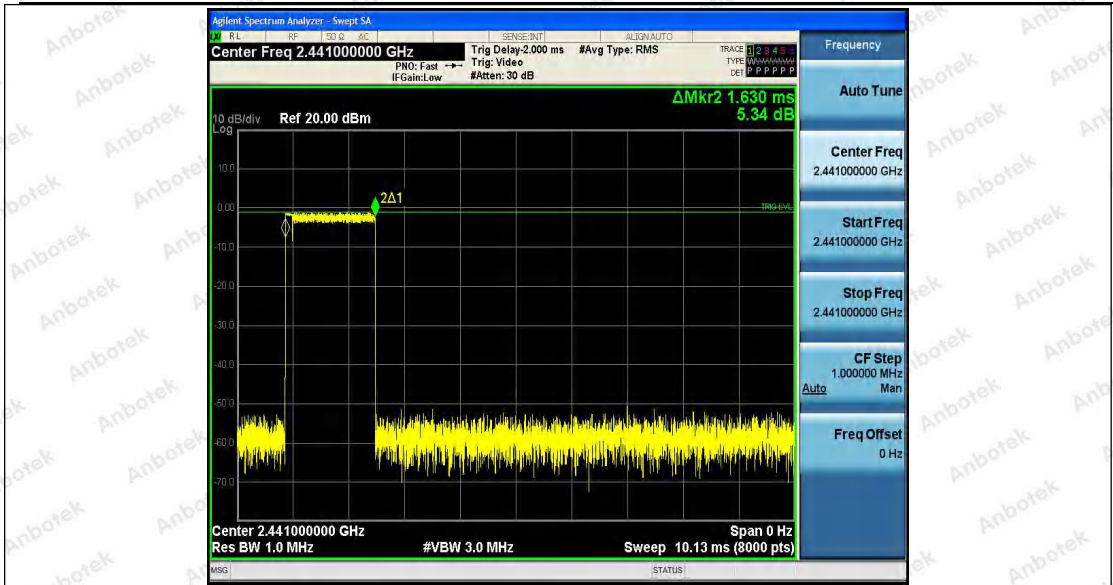


3DH3_Ant1_Hop

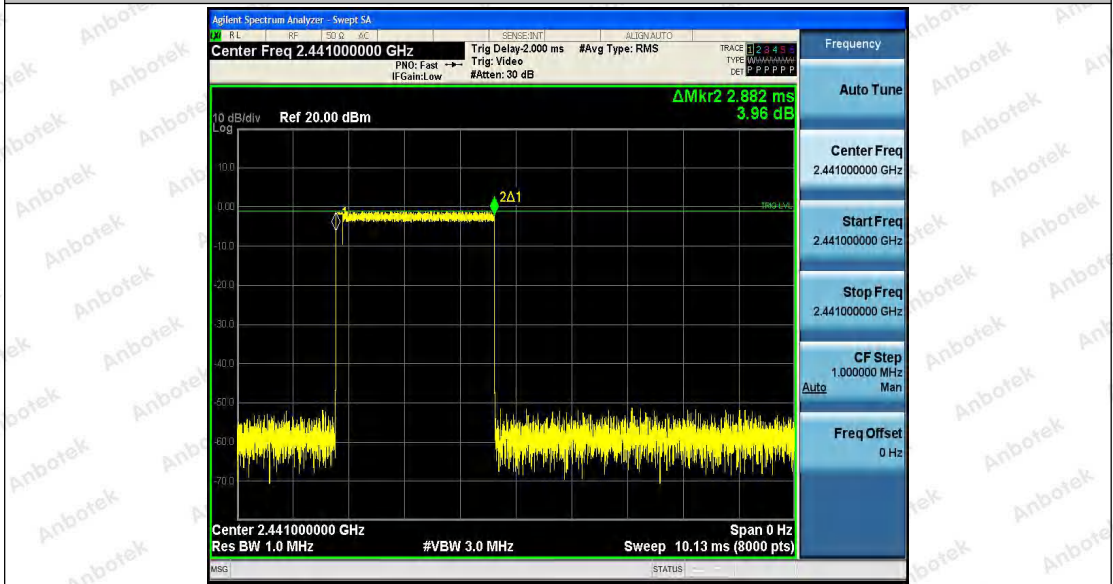
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3DH5_Ant1_Hop

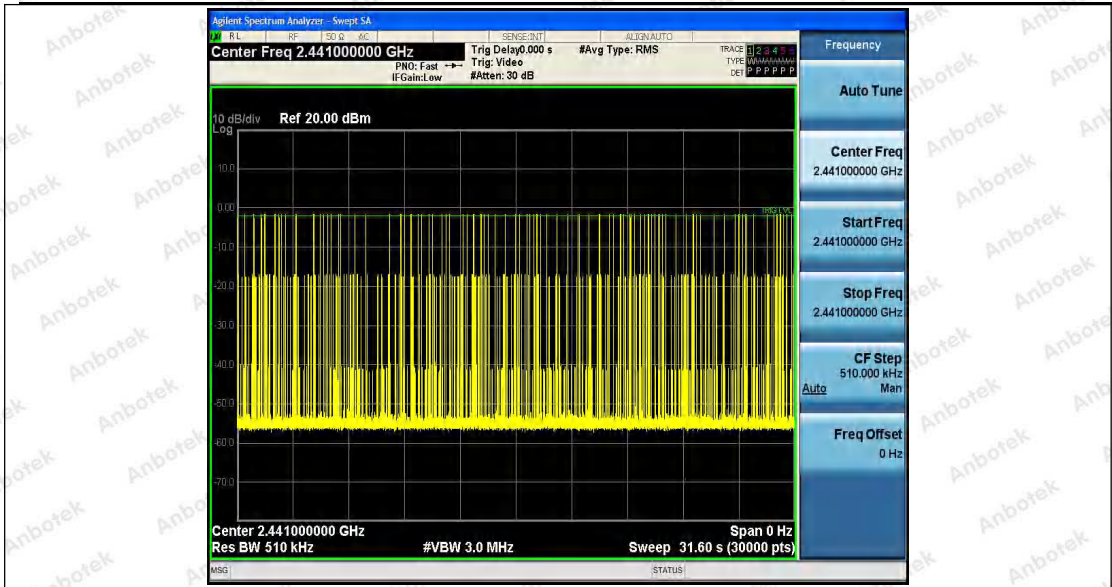


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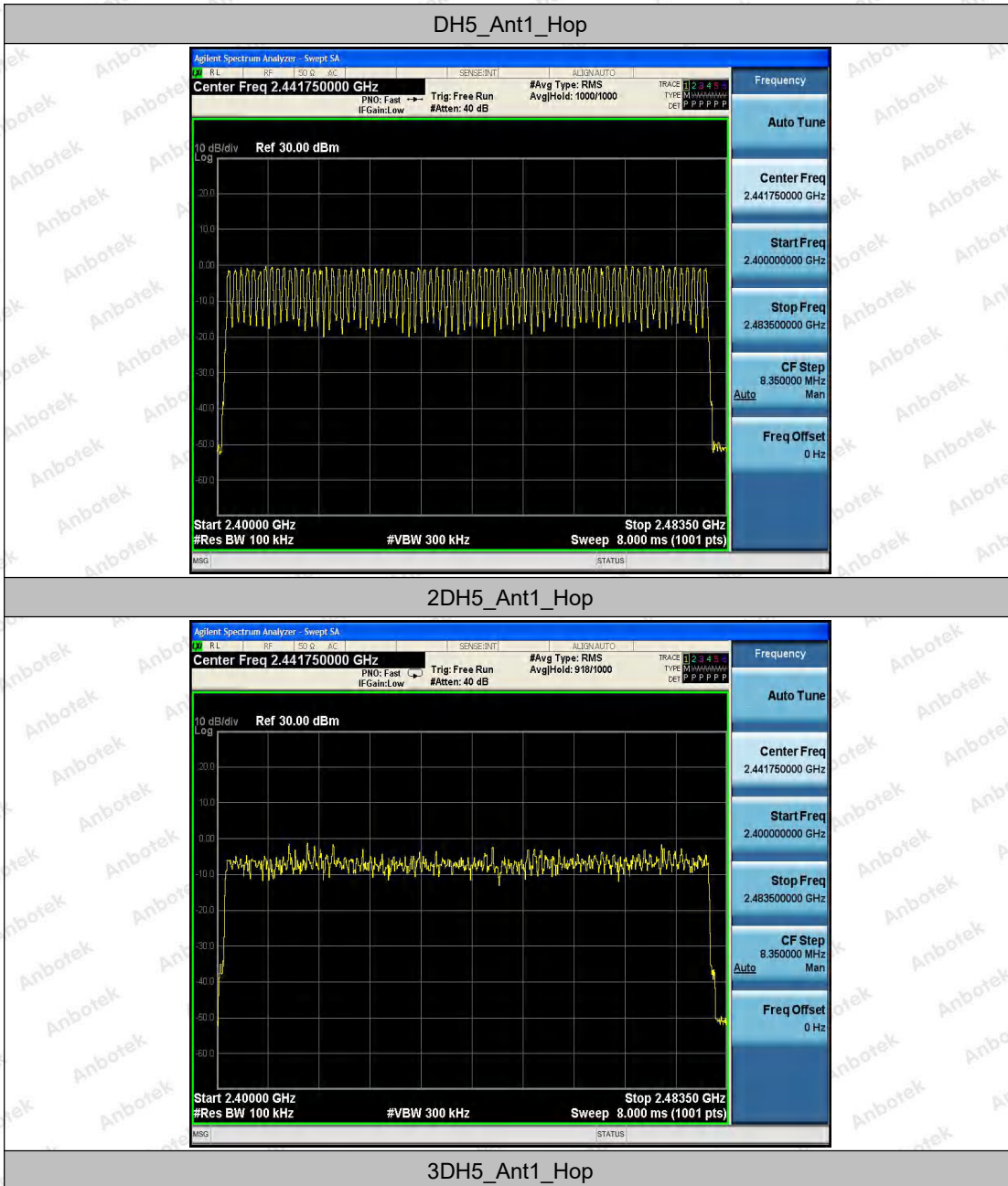
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Appendix F: Number of hopping channels

Test Result

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

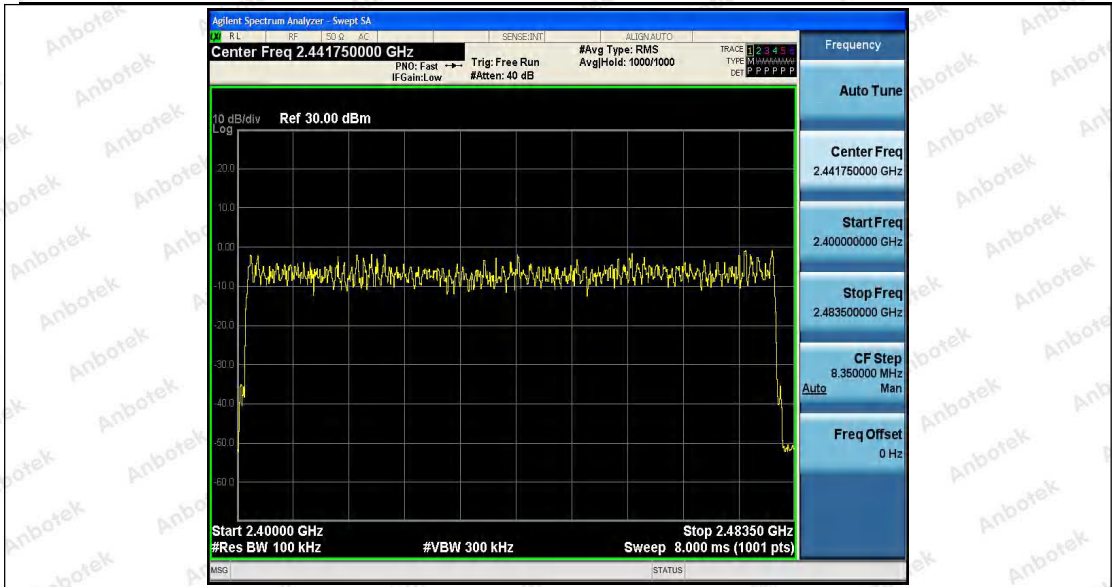


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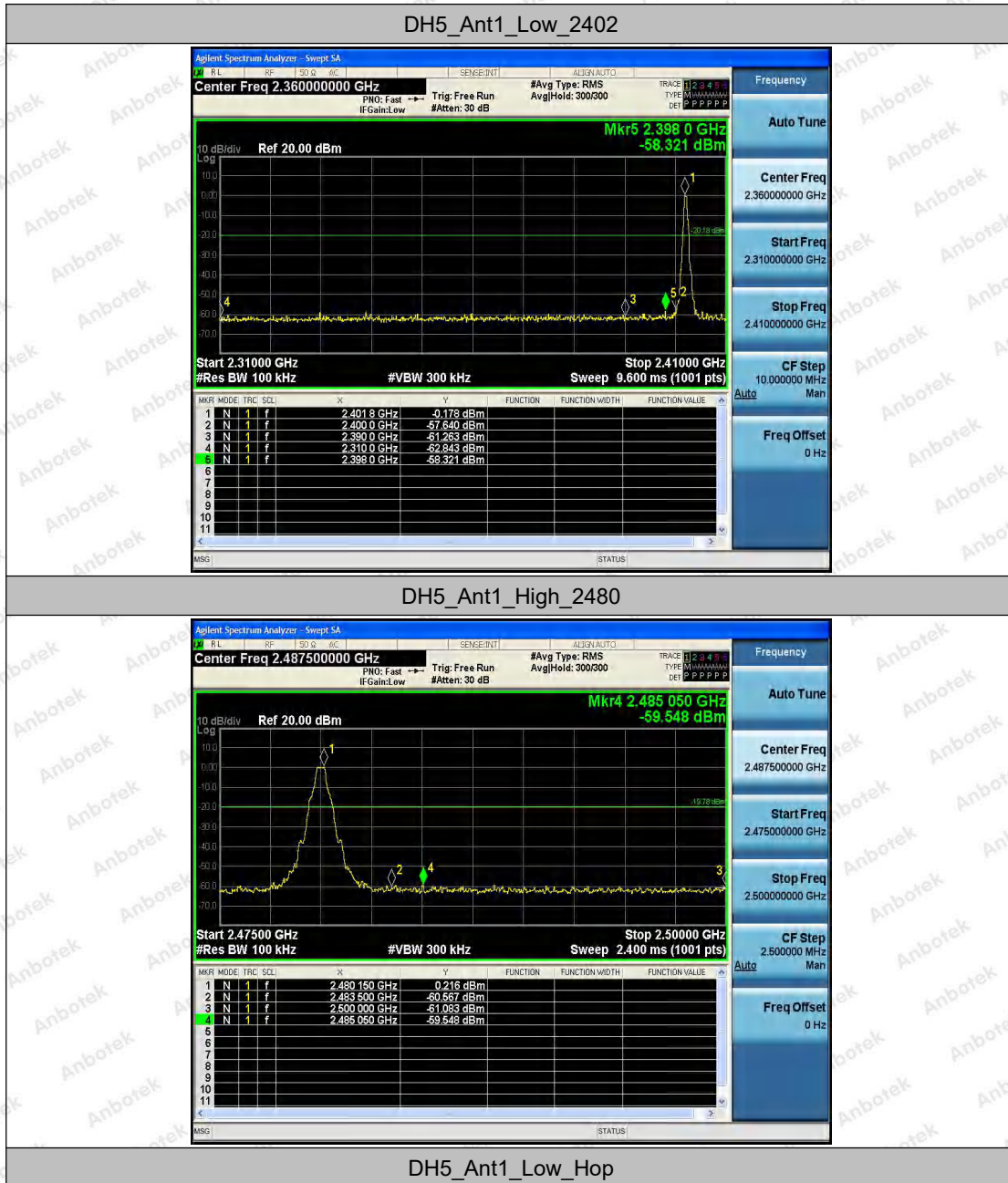
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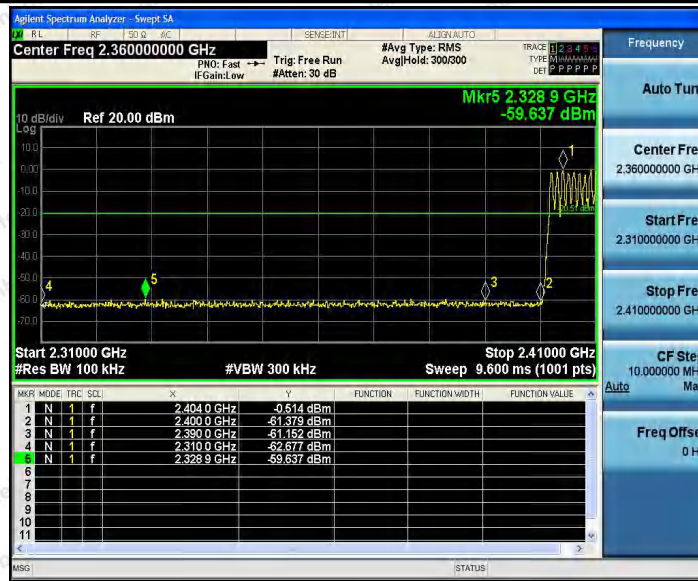
Appendix G: Band edge measurements

Test Result

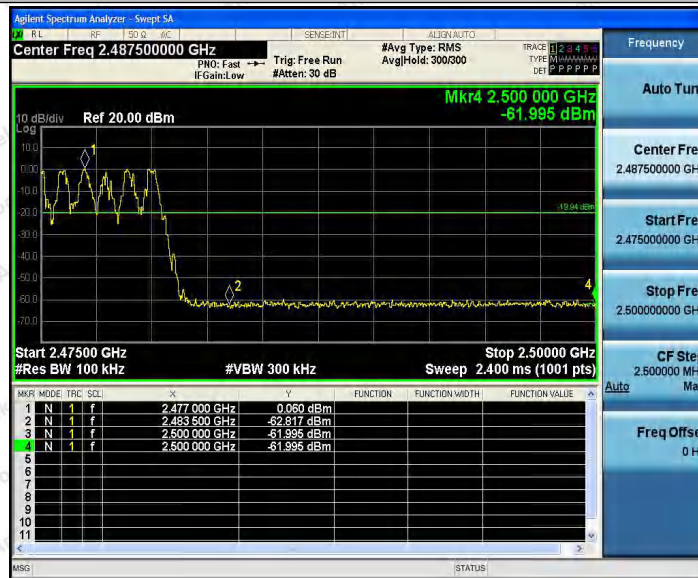
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.18	-58.32	≤-20.18	PASS
		High	2480	0.22	-59.55	≤-19.78	PASS
		Low	Hop	-0.51	-59.64	≤-20.51	PASS
		High	Hop	0.06	-62	≤-19.94	PASS
2DH5	Ant1	Low	2402	-1.33	-55.9	≤-21.33	PASS
		High	2480	-0.85	-59.36	≤-20.85	PASS
		Low	Hop	-4.16	-59.02	≤-24.16	PASS
		High	Hop	-1.96	-61.08	≤-21.96	PASS
3DH5	Ant1	Low	2402	-1.73	-56.82	≤-21.73	PASS
		High	2480	-1.01	-59.73	≤-21.01	PASS
		Low	Hop	-1.67	-59.51	≤-21.67	PASS
		High	Hop	-4.38	-61.69	≤-24.38	PASS

Test Graphs

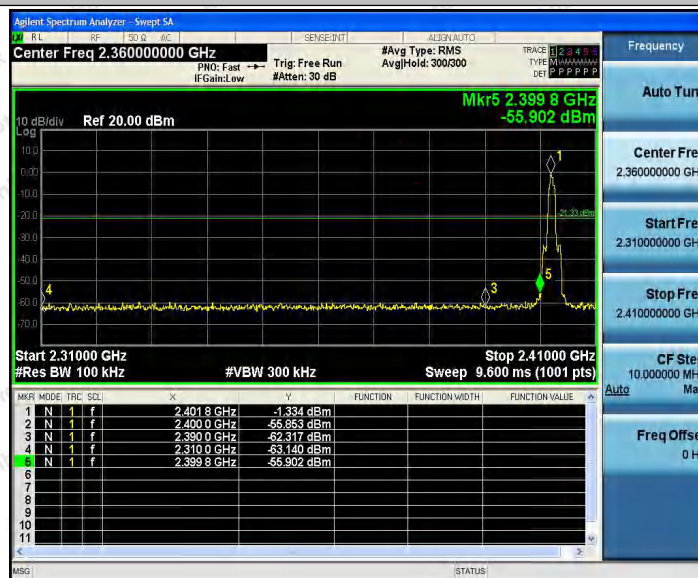




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

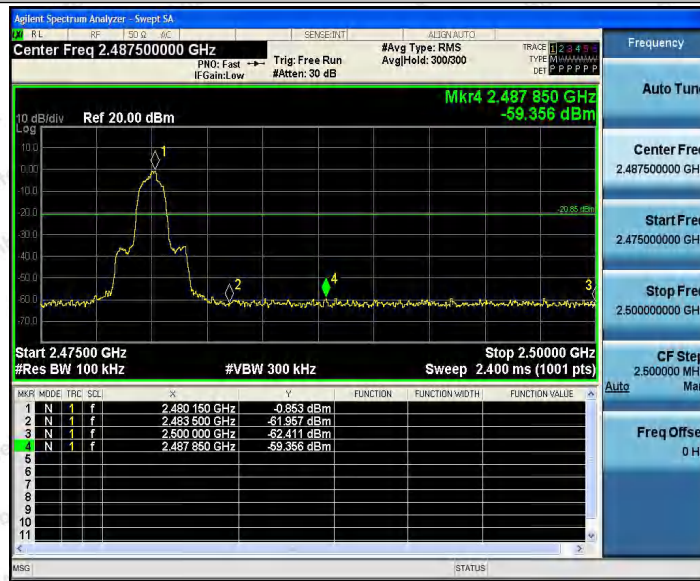


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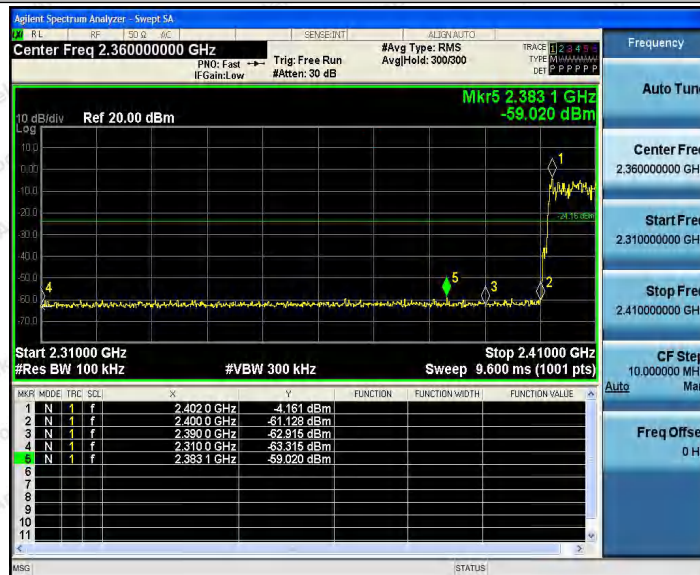
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



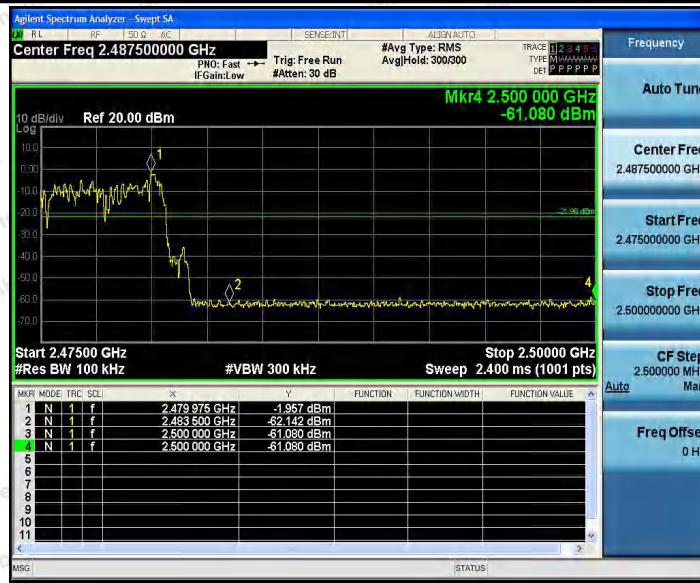
2DH5_Ant1_High_Hop

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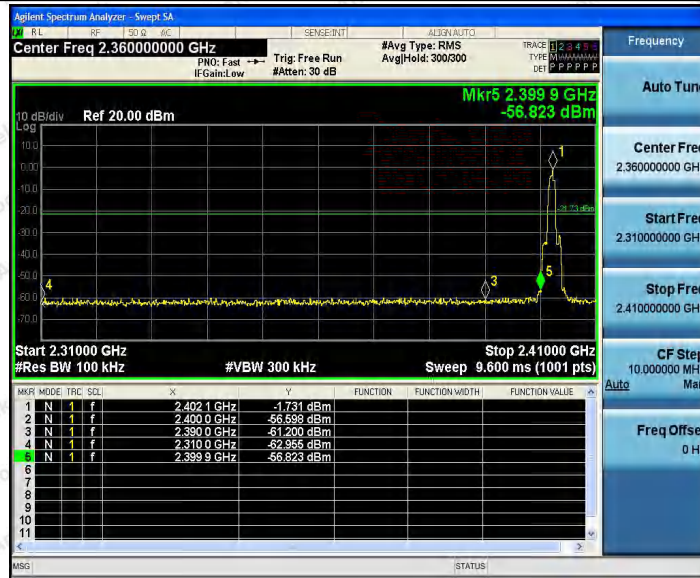
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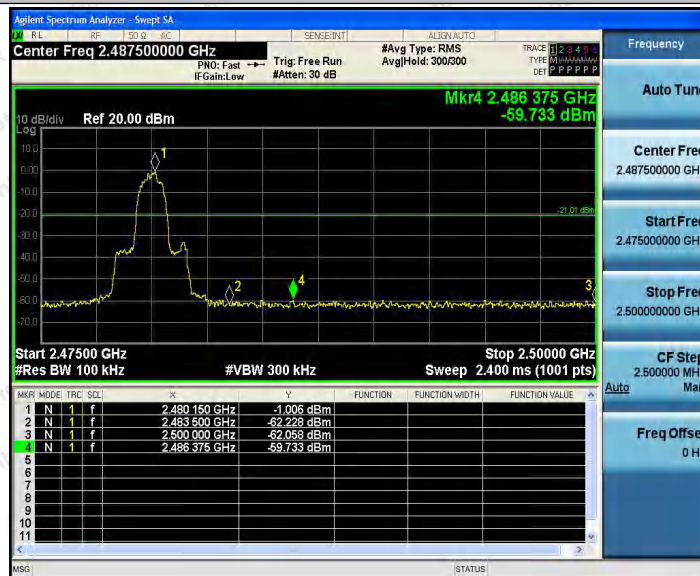
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.64	-0.64	---	PASS
			30~1000	-0.64	-70.64	≤-20.64	PASS
			1000~26500	-0.64	-55.02	≤-20.64	PASS
		2441	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-70.38	≤-20.7	PASS
			1000~26500	-0.70	-55.03	≤-20.7	PASS
		2480	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-70.6	≤-19.93	PASS
			1000~26500	0.07	-55.74	≤-19.93	PASS
2DH5	Ant1	2402	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-70.26	≤-21.41	PASS
			1000~26500	-1.41	-54.98	≤-21.41	PASS
		2441	Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-69.36	≤-21.82	PASS
			1000~26500	-1.82	-55.28	≤-21.82	PASS
		2480	Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-70.15	≤-21.05	PASS
			1000~26500	-1.05	-55.07	≤-21.05	PASS
3DH5	Ant1	2402	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-70.54	≤-21.54	PASS
			1000~26500	-1.54	-54.78	≤-21.54	PASS
		2441	Reference	-1.55	-1.55	---	PASS
			30~1000	-1.55	-70.24	≤-21.55	PASS
			1000~26500	-1.55	-55.2	≤-21.55	PASS
		2480	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-69.6	≤-21.06	PASS
			1000~26500	-1.06	-55.39	≤-21.06	PASS

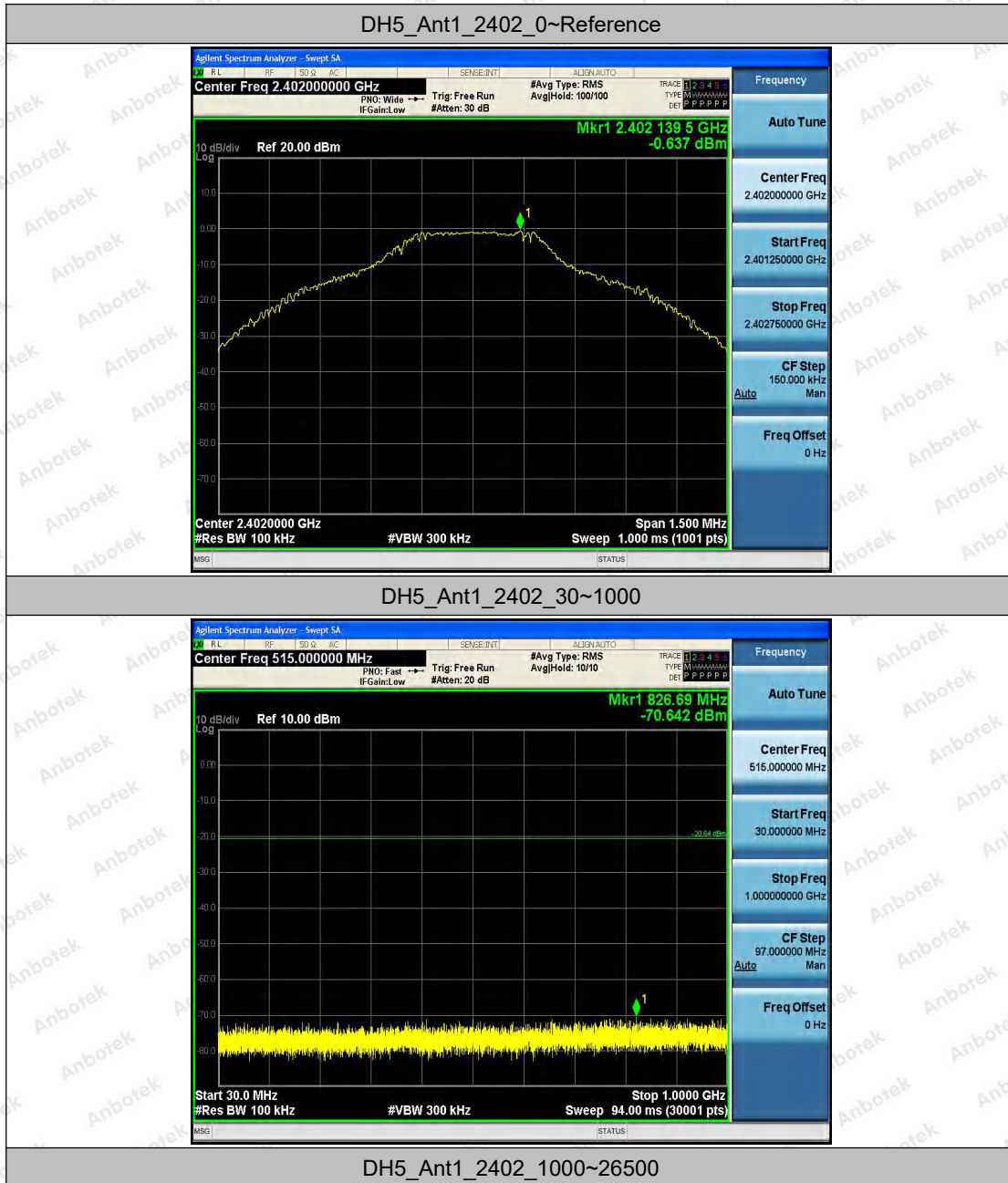
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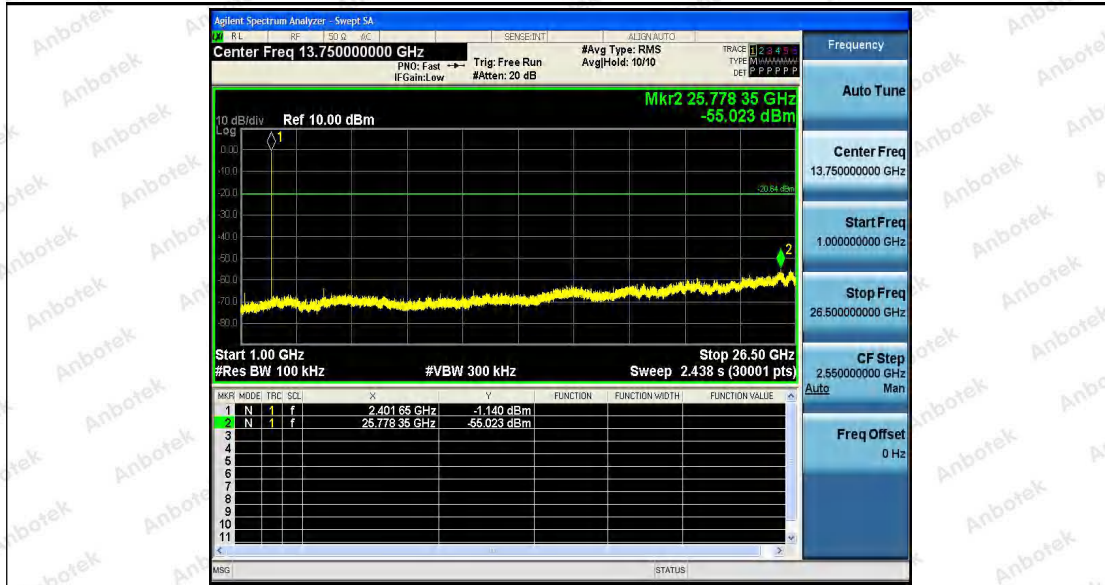
Test Graphs



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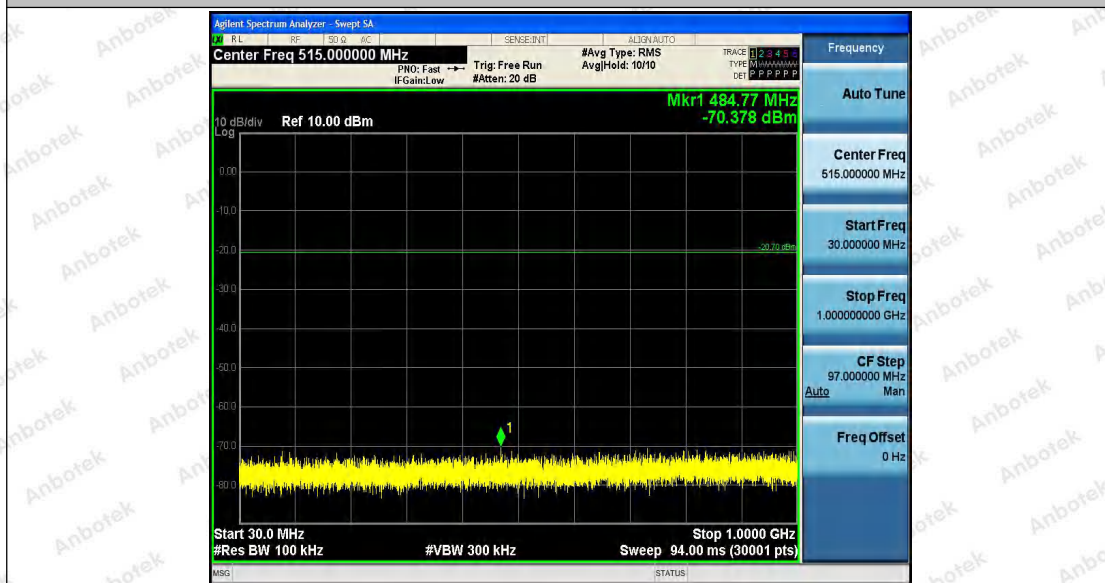
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

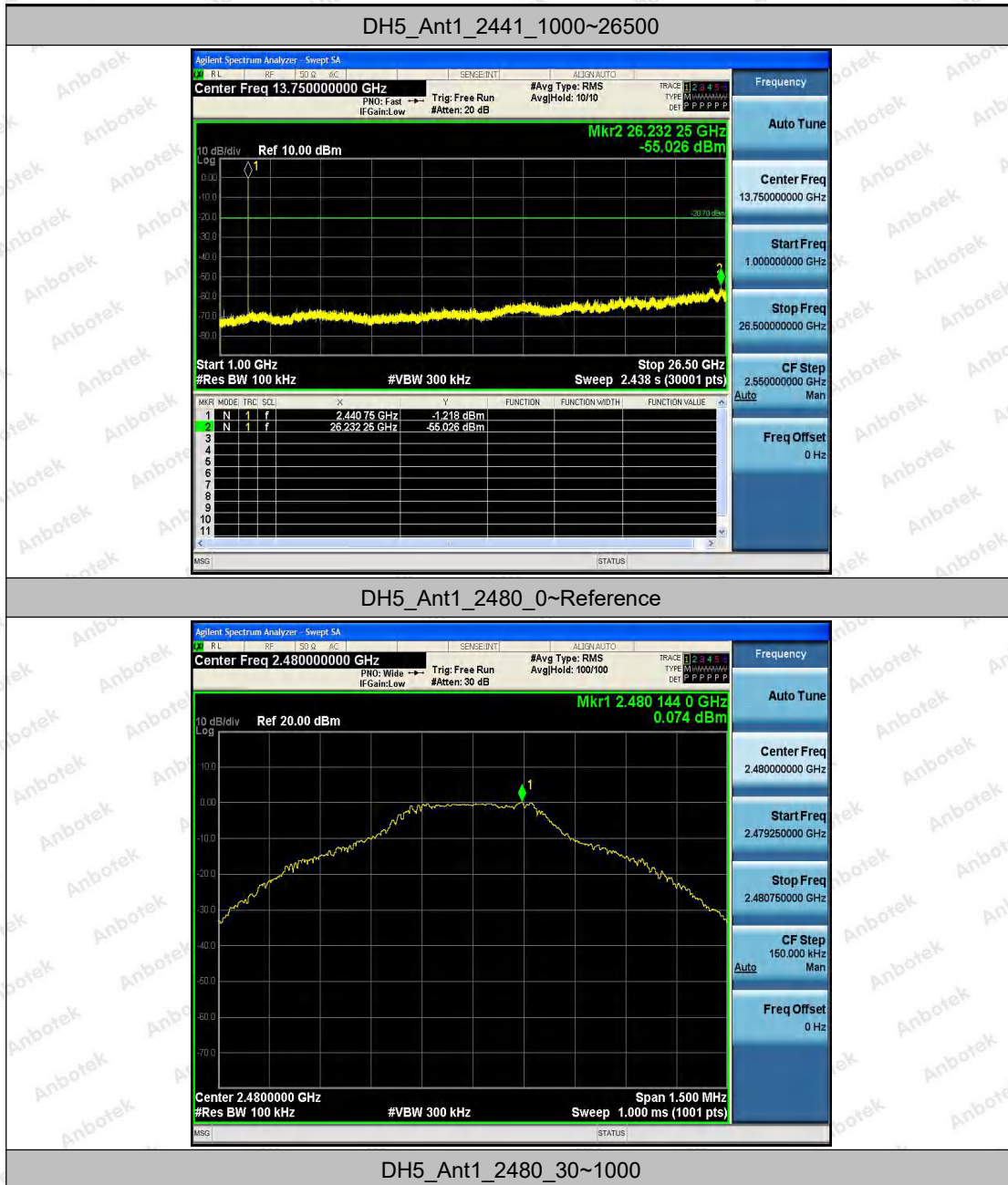


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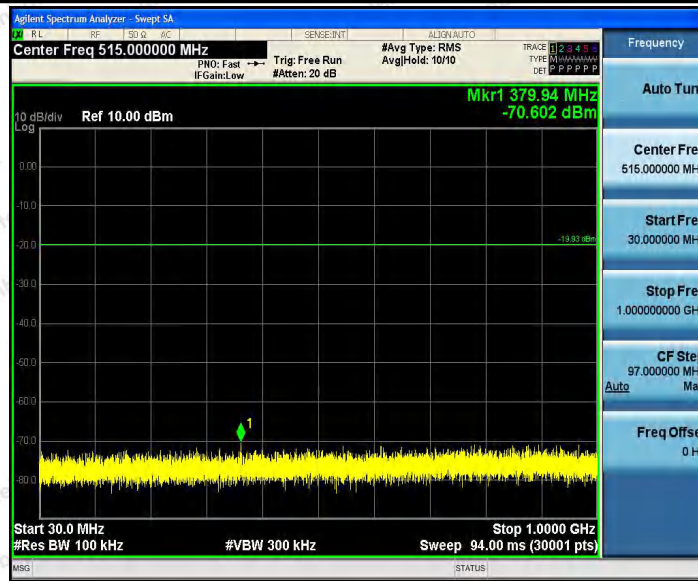


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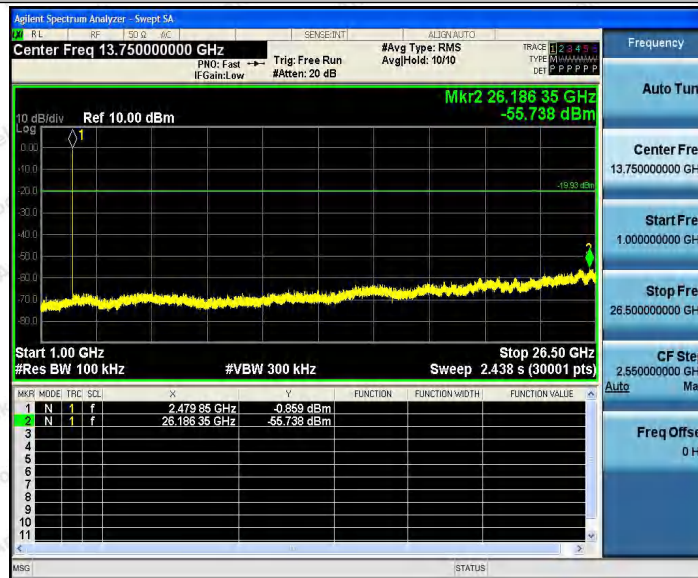
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

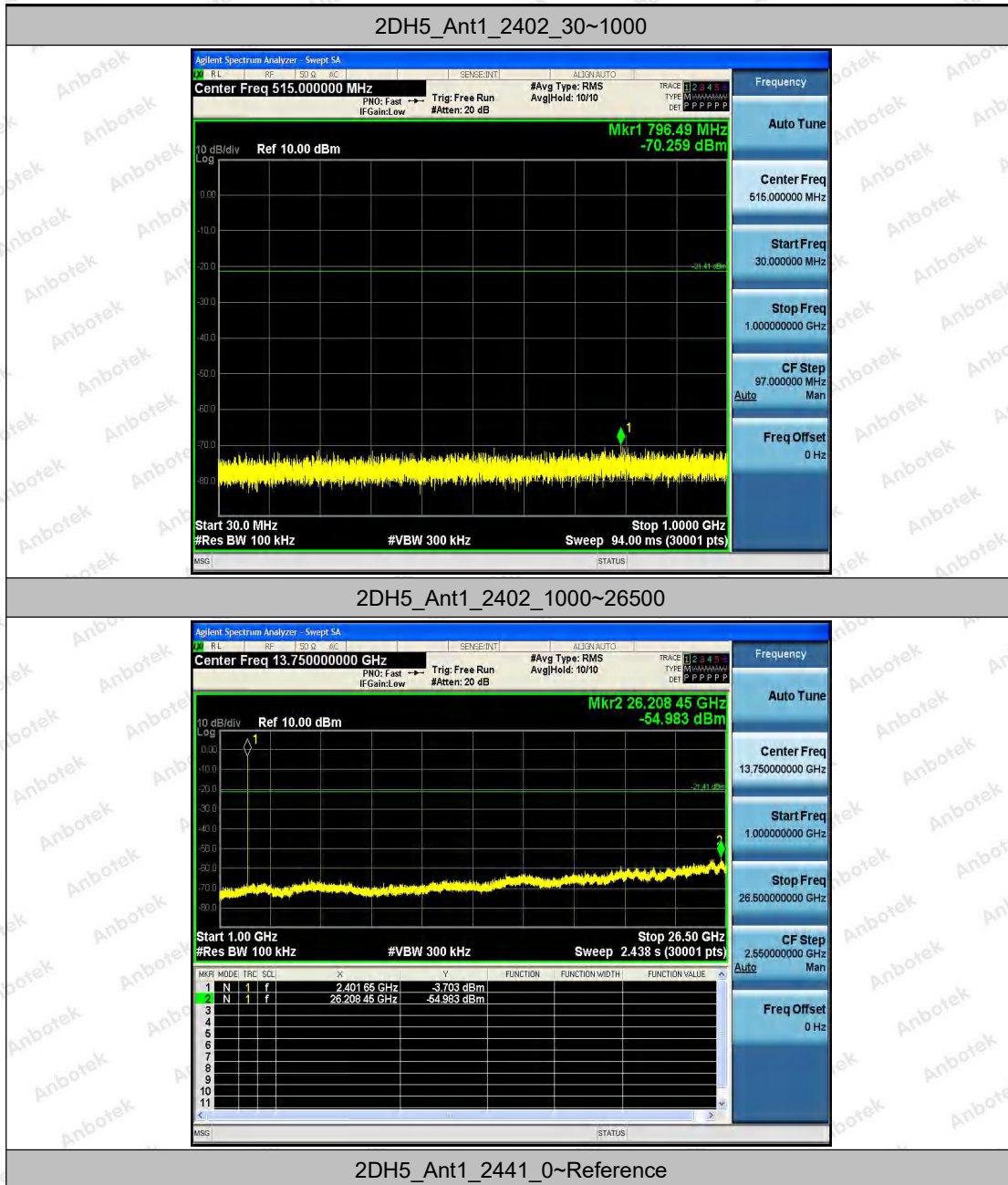


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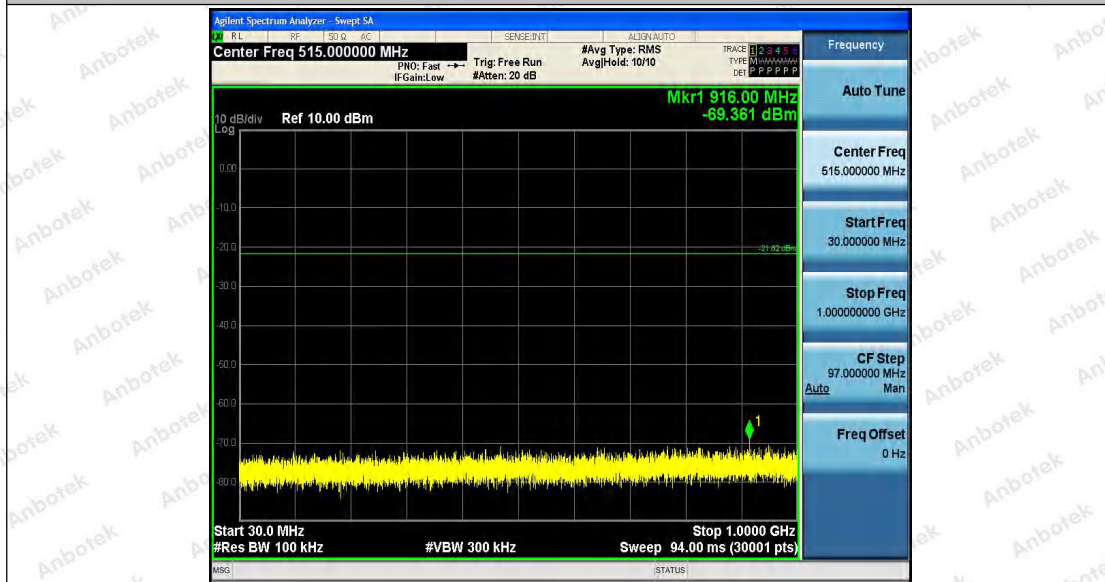
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

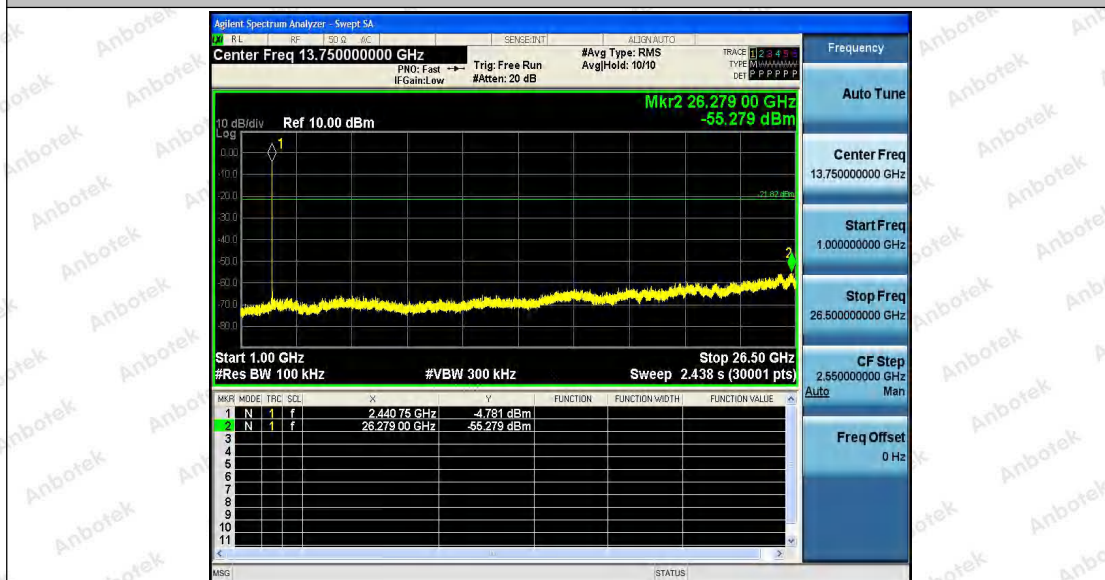
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

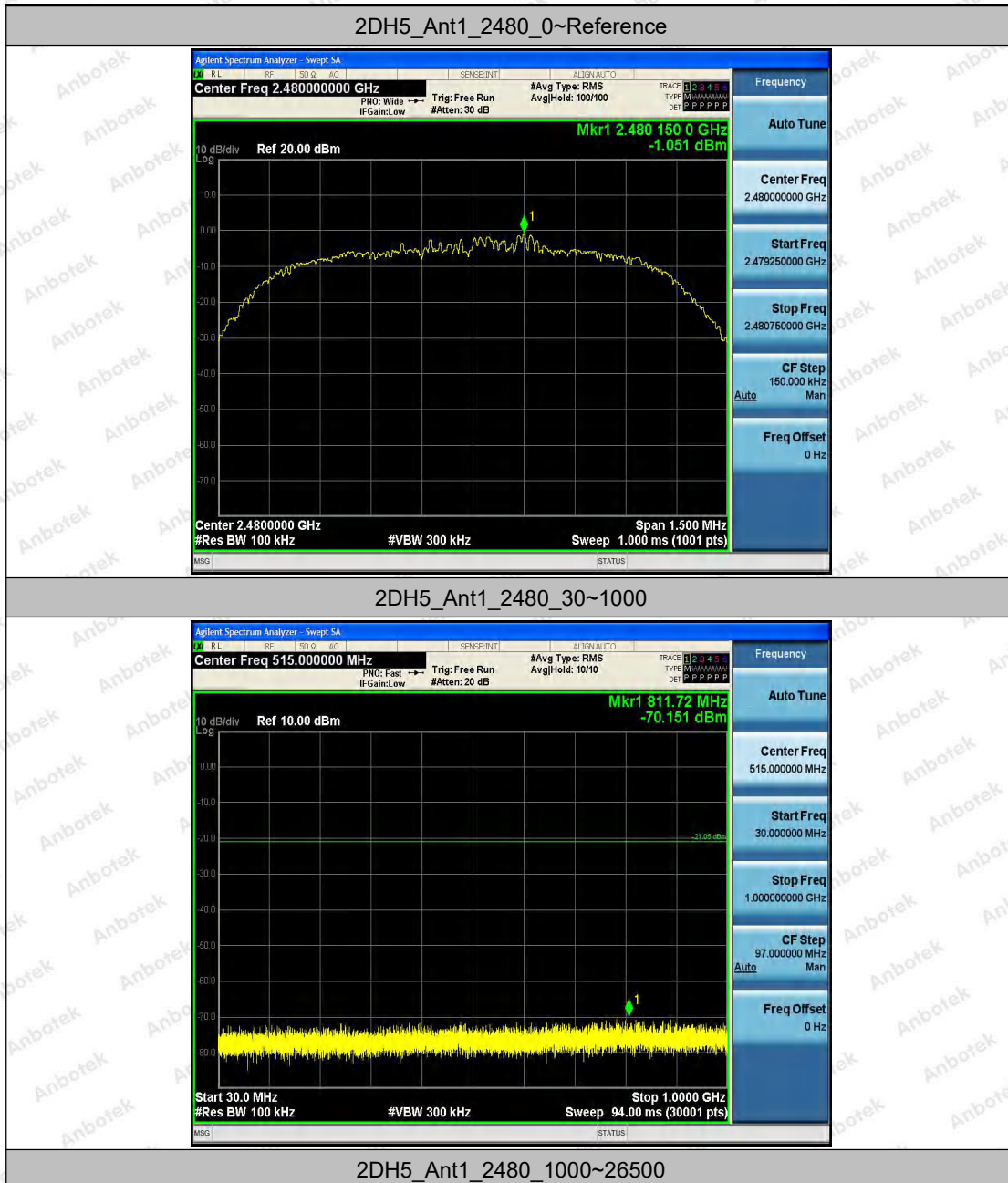


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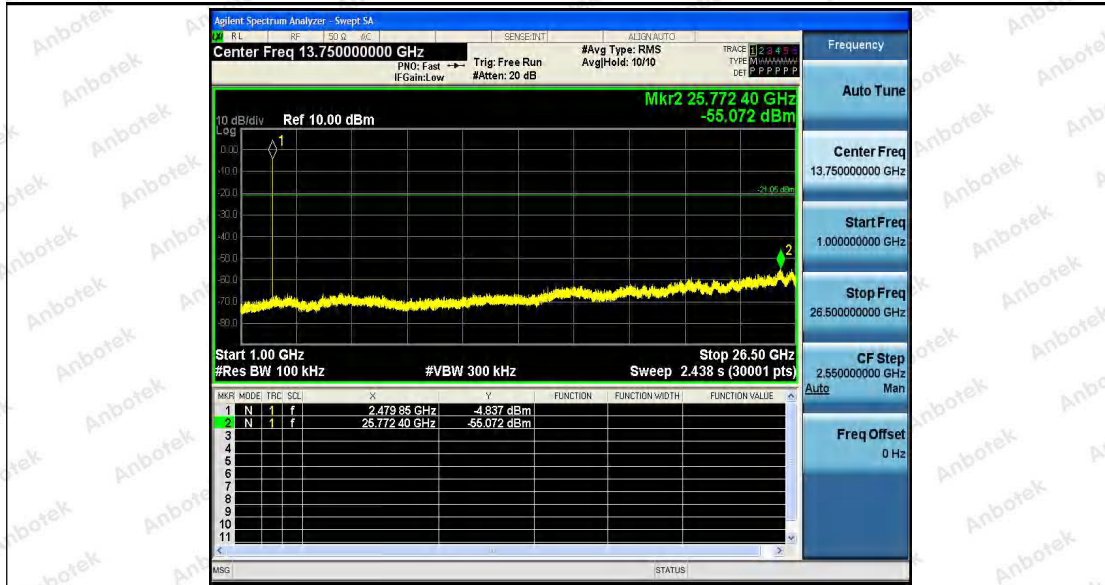


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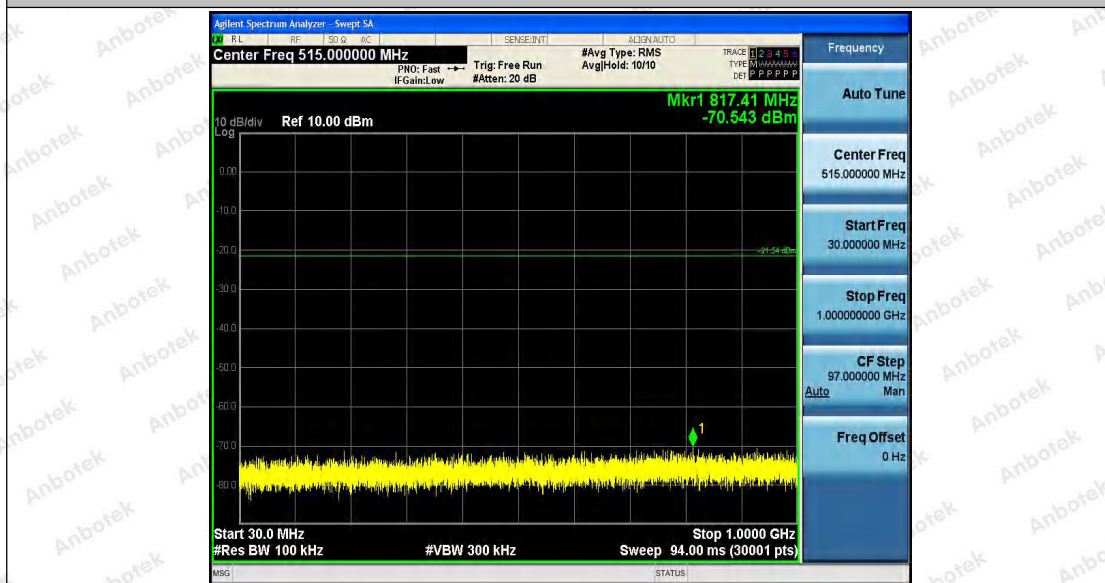
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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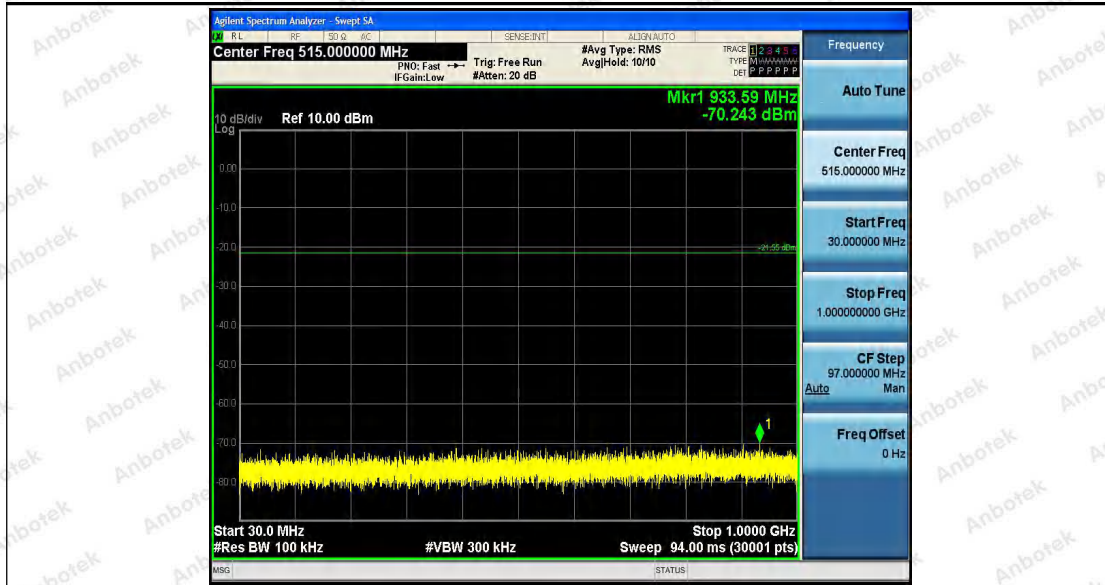


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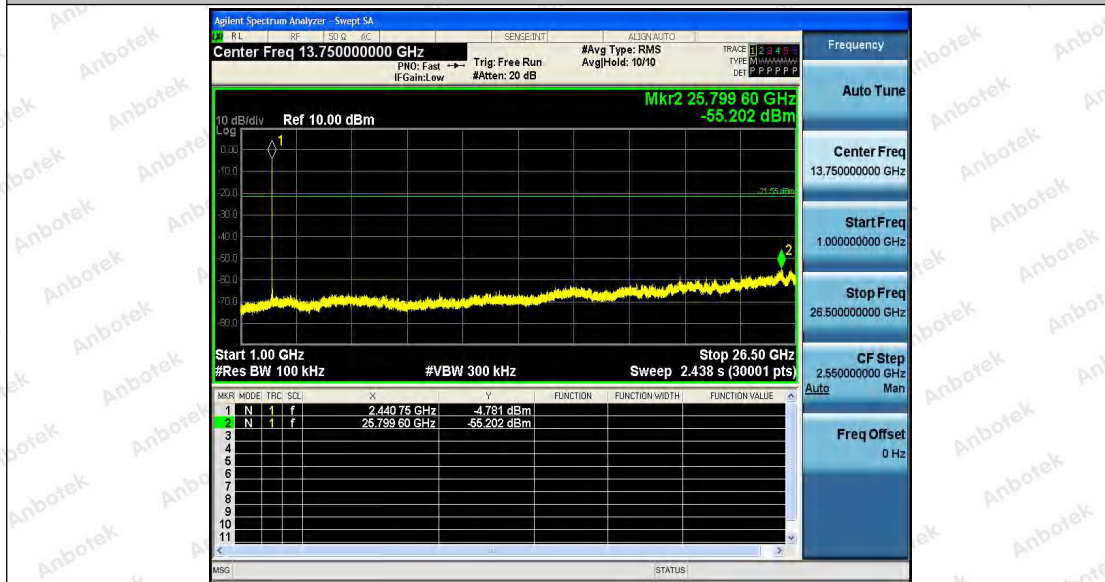
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

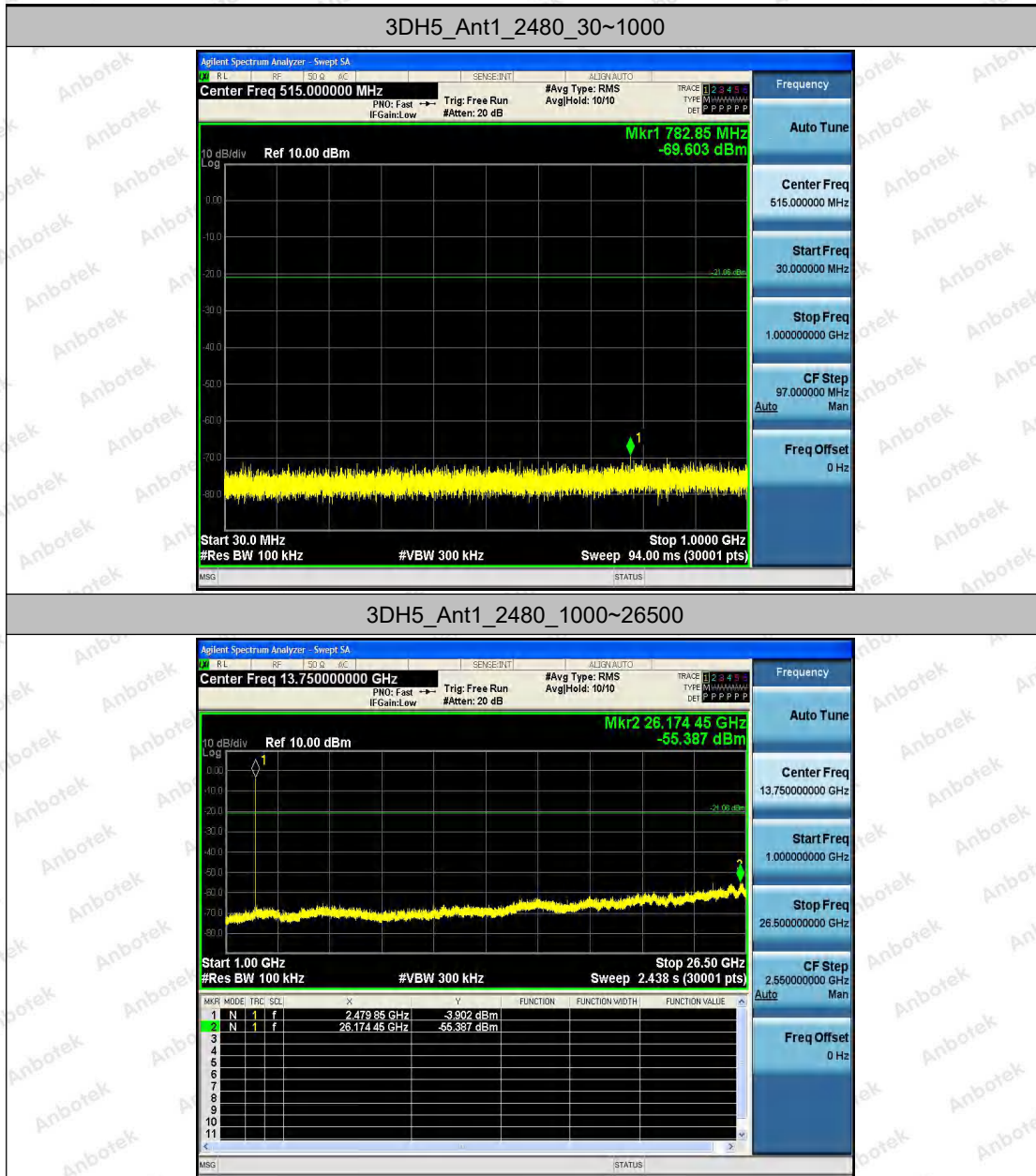


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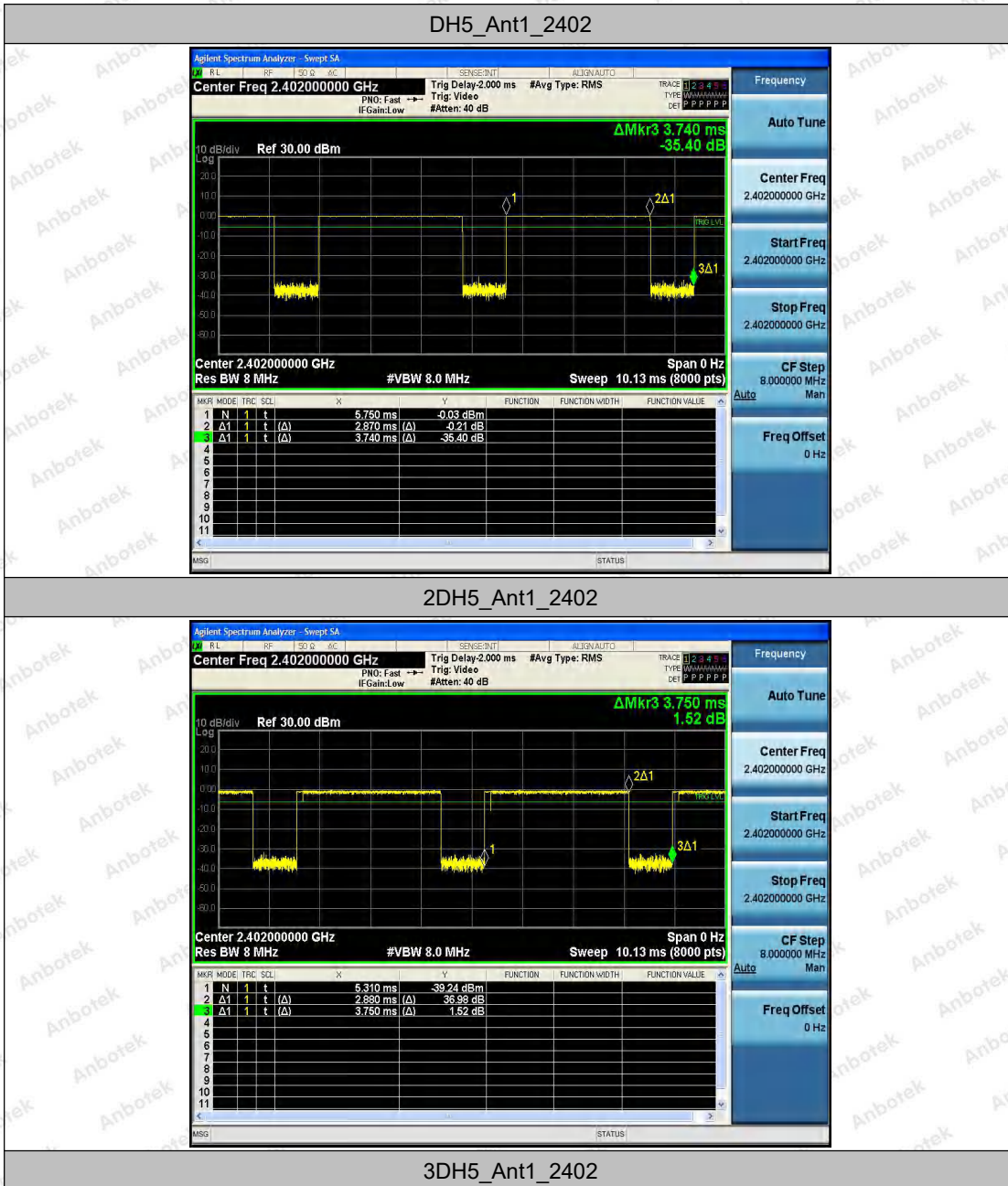
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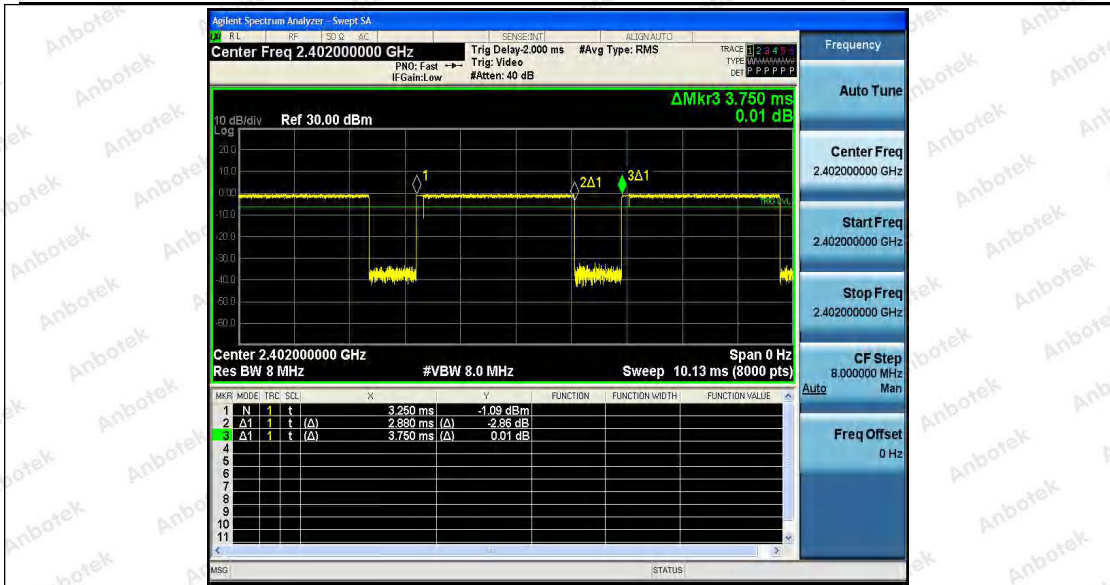
Appendix I: Duty Cycle

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---