

Appendix Test Data

Report No.:	18220WC20045001	Test Sample No.:	1-2-2
Start Test Date:	2022.3.9	Finish Test Date:	2022.3.11
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	55.7 %
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	0.945	2440.541	2441.486	---	PASS
		2480	0.939	2479.541	2480.480	---	PASS
2DH5	Ant1	2402	1.320	2401.340	2402.660	---	PASS
		2441	1.266	2440.367	2441.633	---	PASS
		2480	1.266	2479.370	2480.636	---	PASS
3DH5	Ant1	2402	1.311	2401.346	2402.657	---	PASS
		2441	1.275	2440.355	2441.630	---	PASS
		2480	1.305	2479.346	2480.651	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

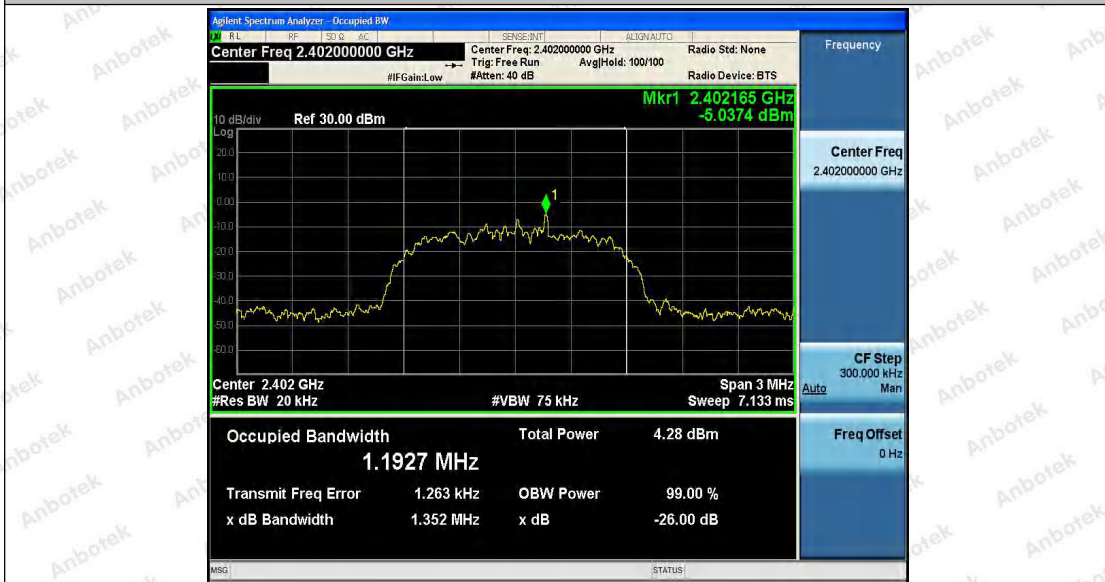
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89273	2401.556	2402.448	---	PASS
		2441	0.90416	2440.550	2441.455	---	PASS
		2480	0.89438	2479.556	2480.450	---	PASS
2DH5	Ant1	2402	1.1927	2401.405	2402.598	---	PASS
		2441	1.1973	2440.403	2441.601	---	PASS
		2480	1.1964	2479.403	2480.600	---	PASS
3DH5	Ant1	2402	1.2024	2401.396	2402.599	---	PASS
		2441	1.2091	2440.389	2441.598	---	PASS
		2480	1.2061	2479.391	2480.597	---	PASS

Test Graphs

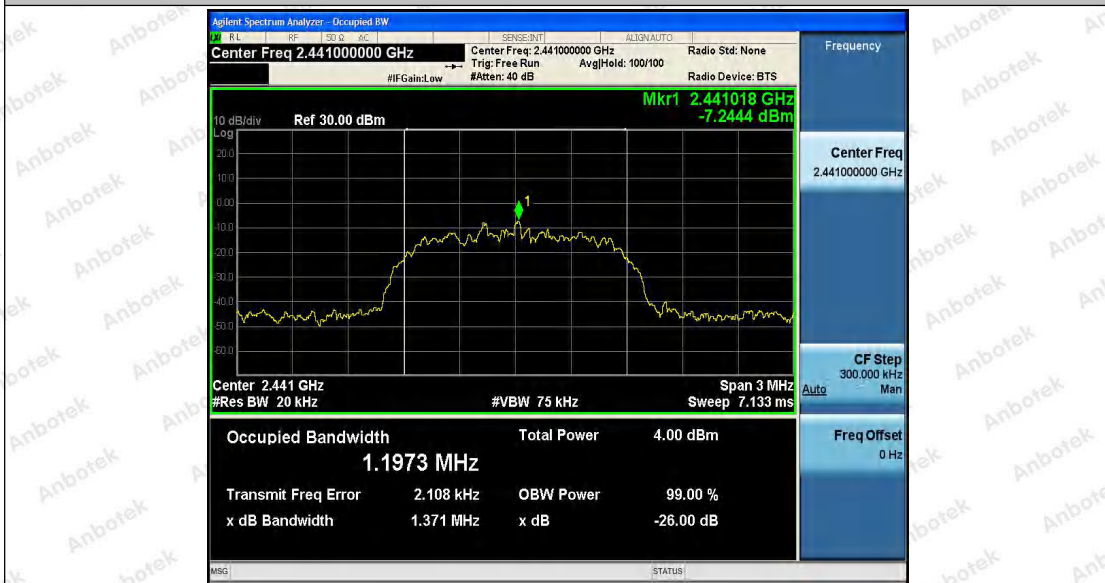




2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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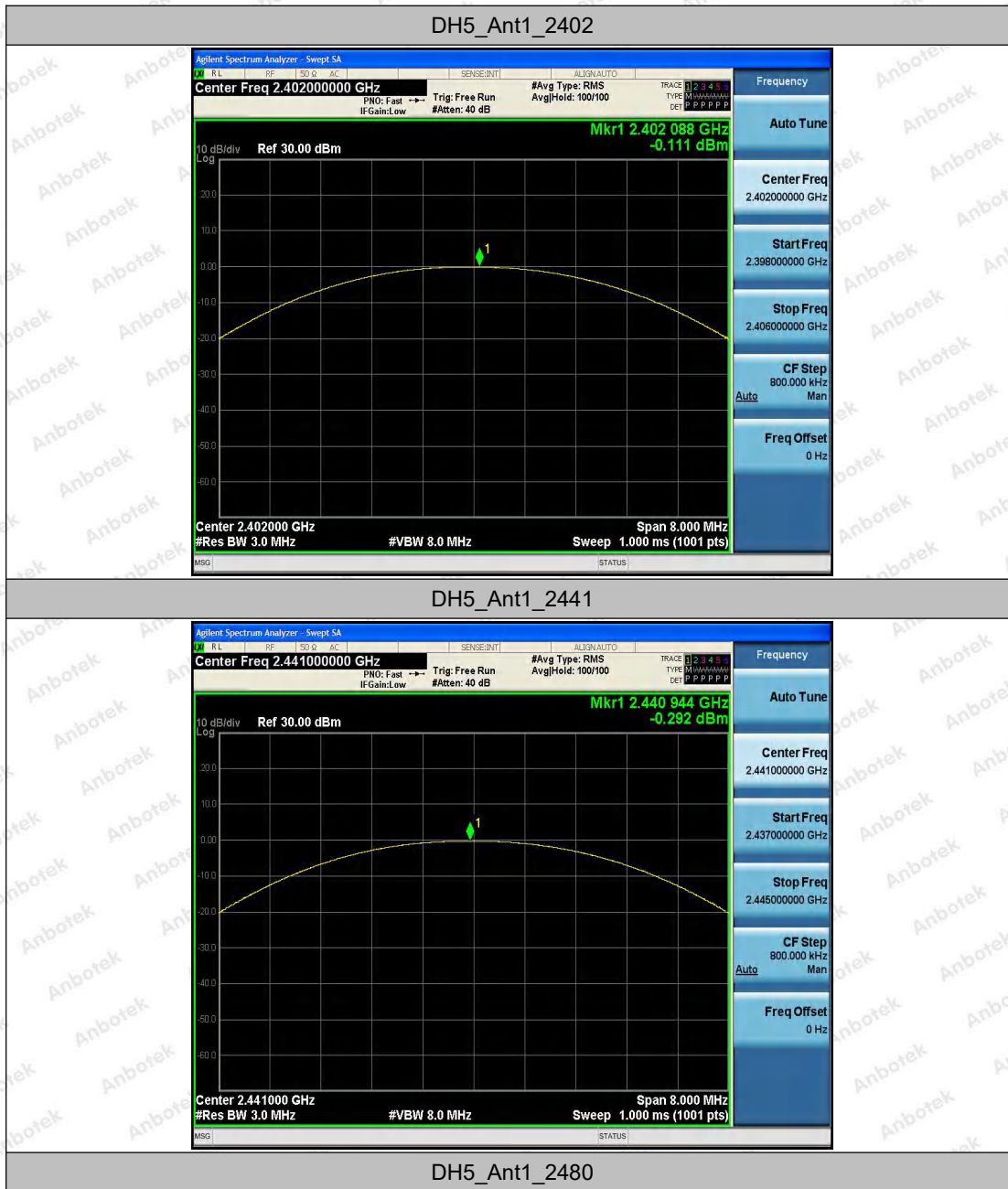
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.11	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	0.72	≤20.97	PASS
2DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.81	≤20.97	PASS
		2480	-0.01	≤20.97	PASS
3DH5	Ant1	2402	-0.63	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	0.04	≤20.97	PASS

Test Graphs



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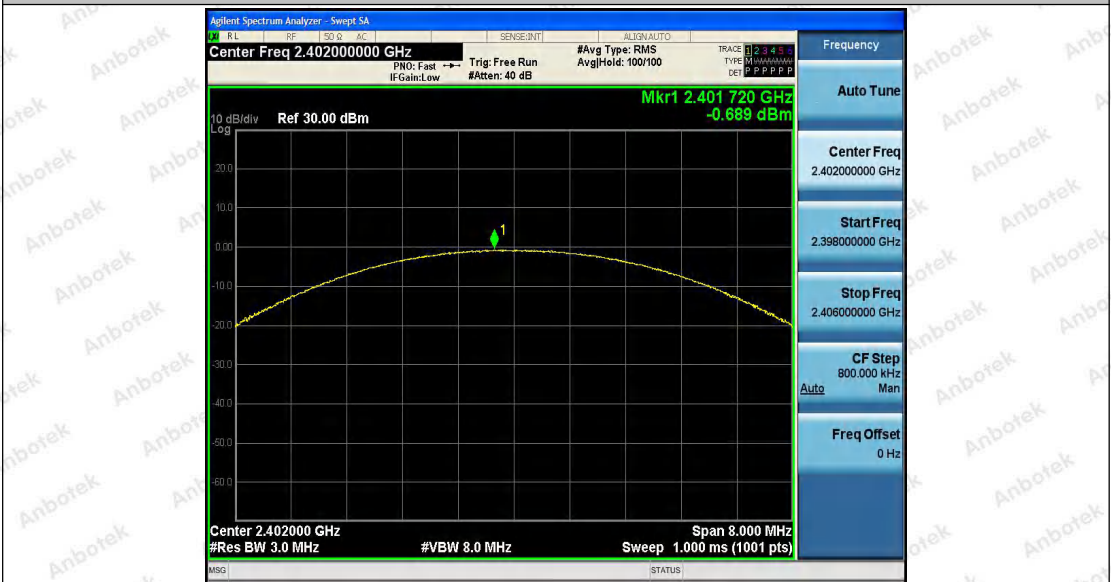
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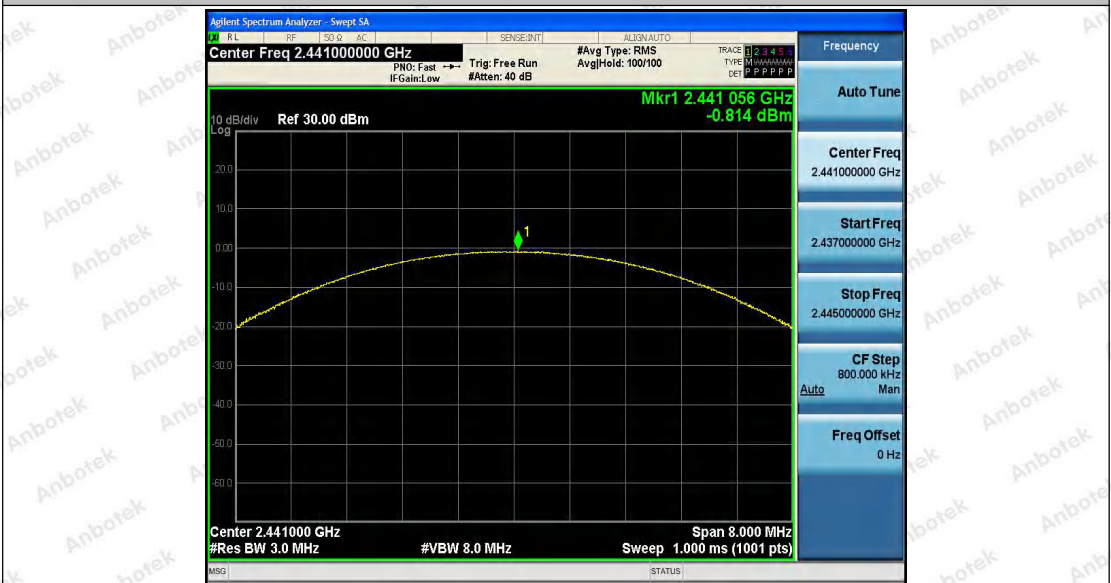
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2DH5_Ant1_2402



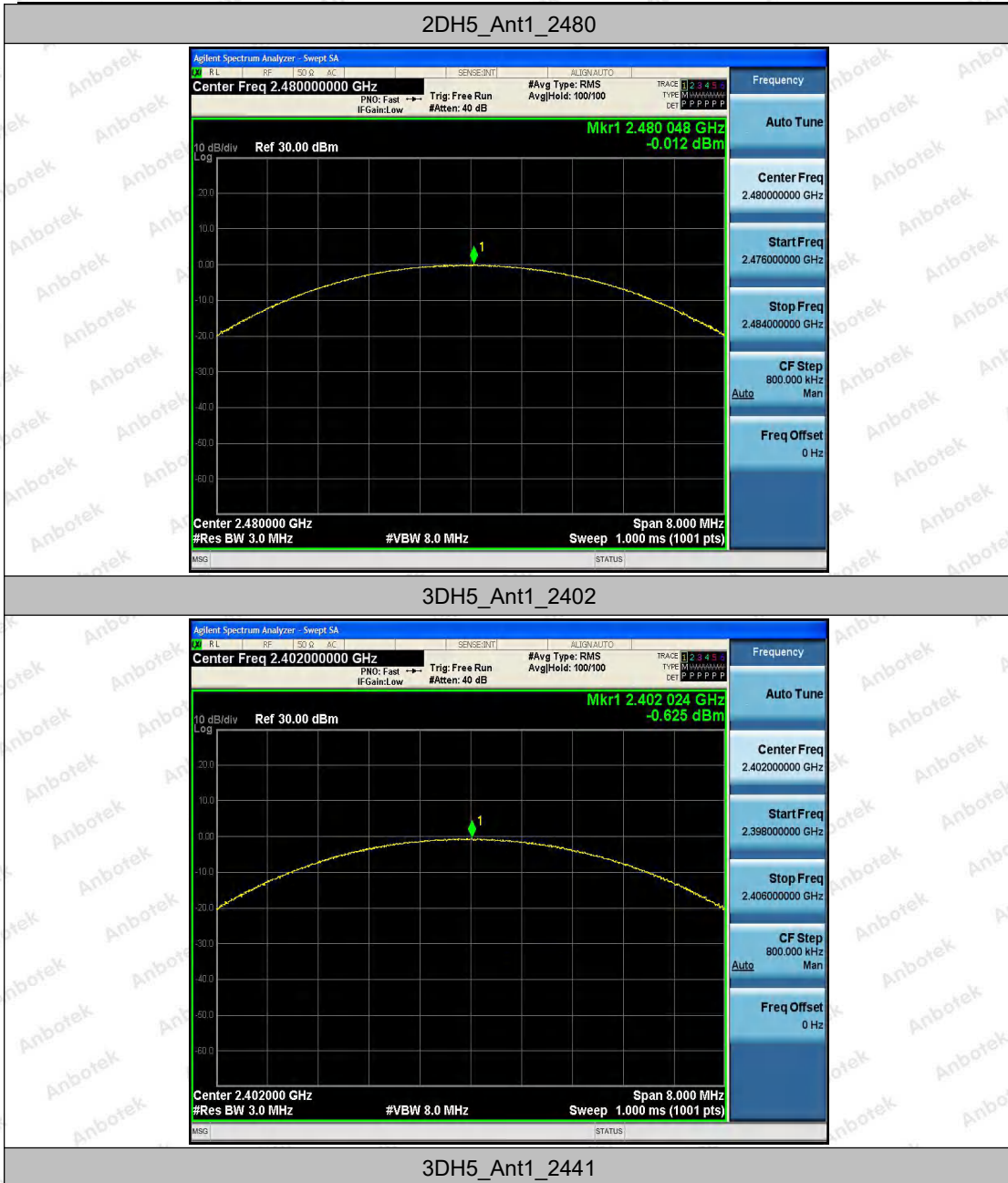
2DH5_Ant1_2441



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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	1.214	≥0.945	PASS
2DH5	Ant1	Hop	0.912	≥0.880	PASS
3DH5	Ant1	Hop	0.896	≥0.874	PASS

Test Graphs



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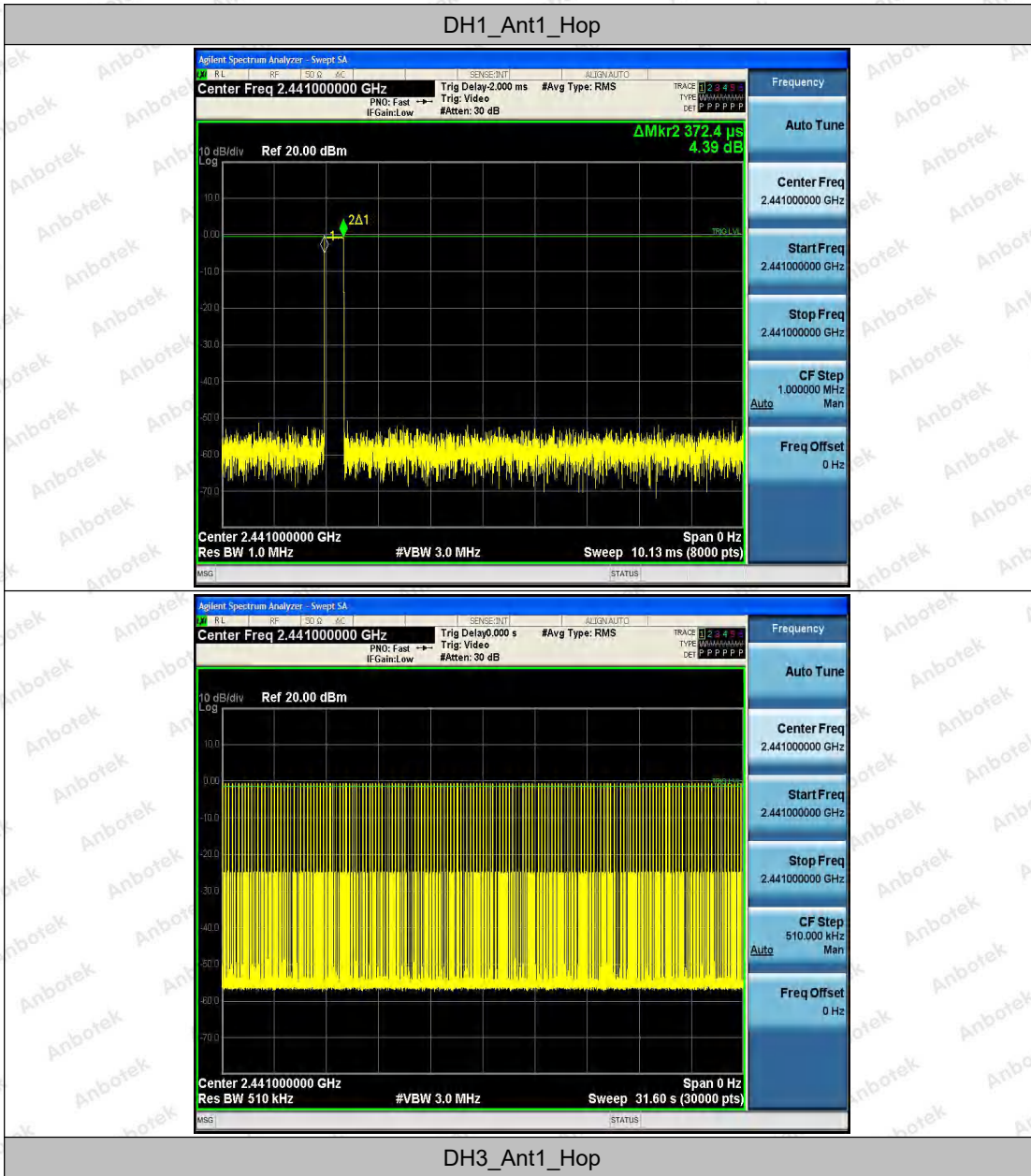
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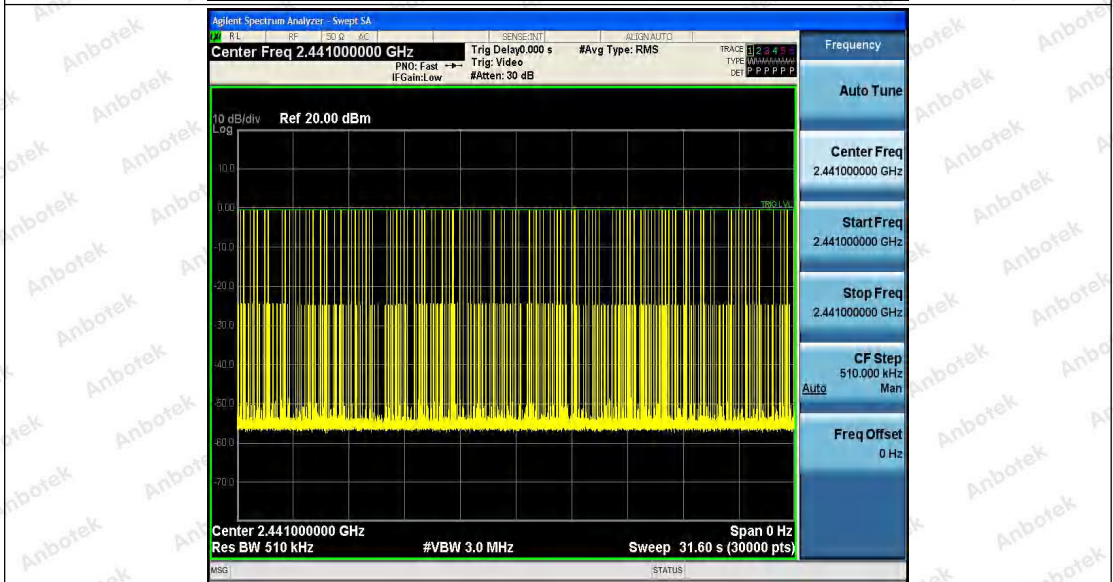
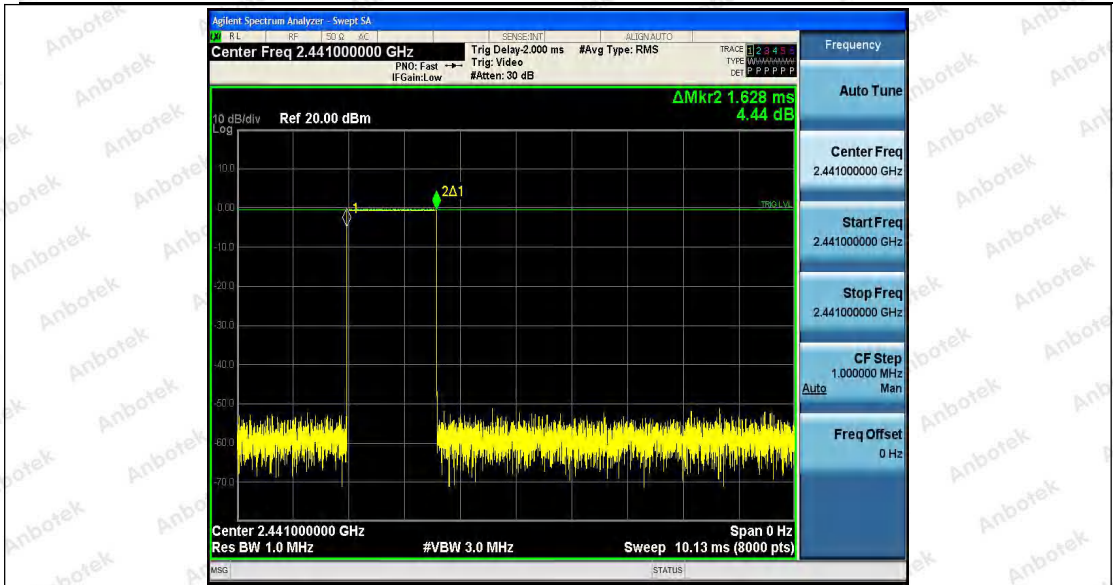
Appendix E: Time of occupancy

Test Result

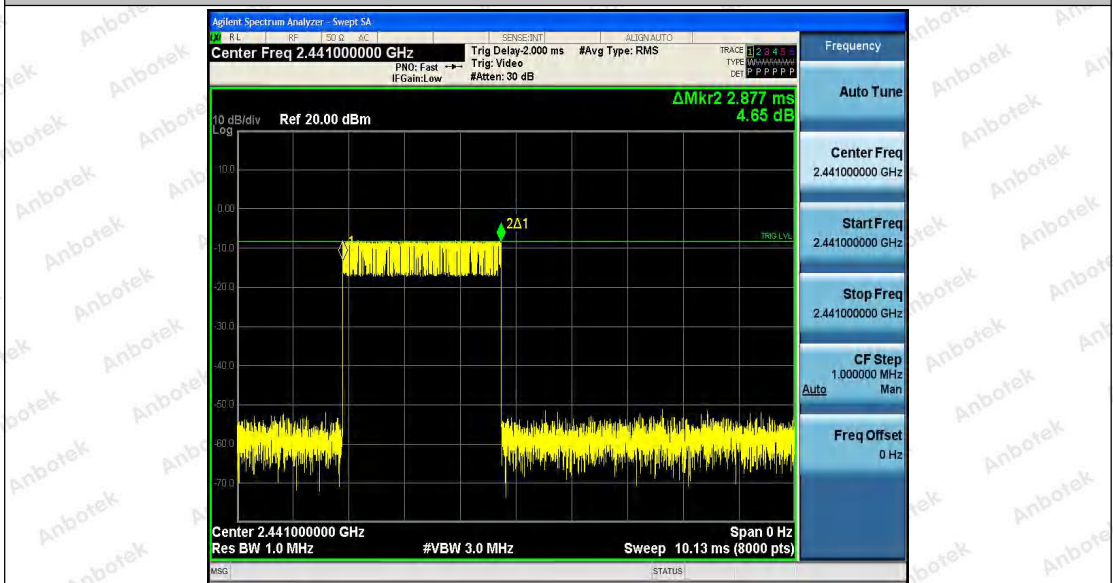
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

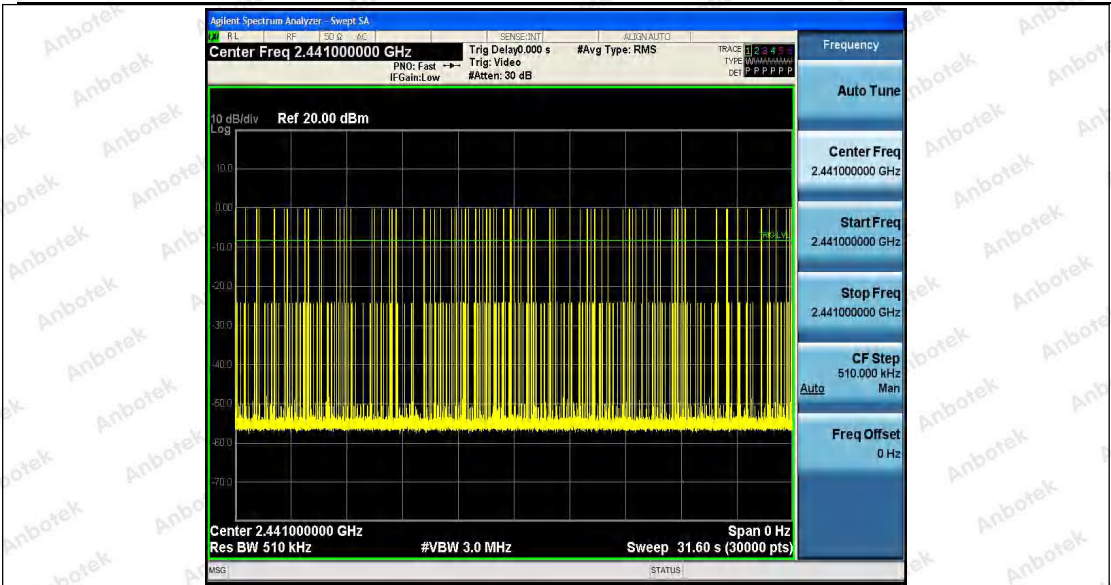


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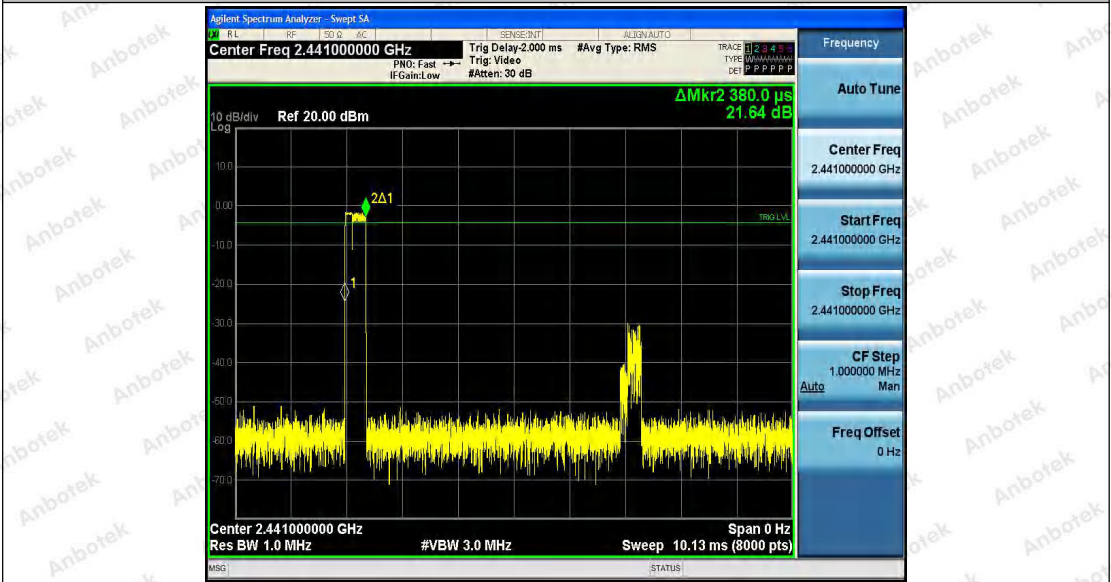
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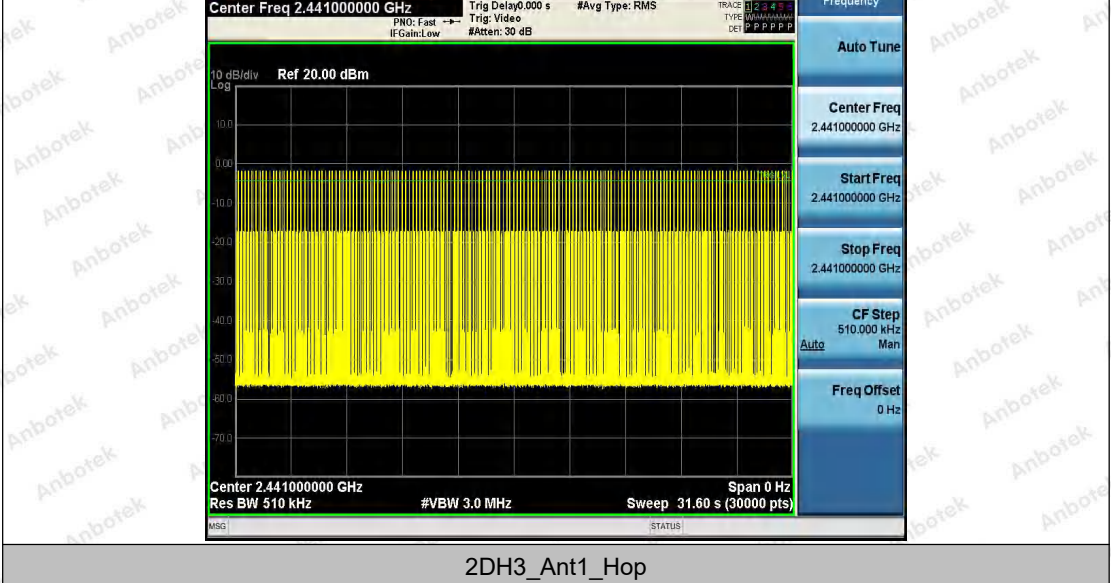
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2DH1_Ant1_Hop



2DH1_Ant1_Hop

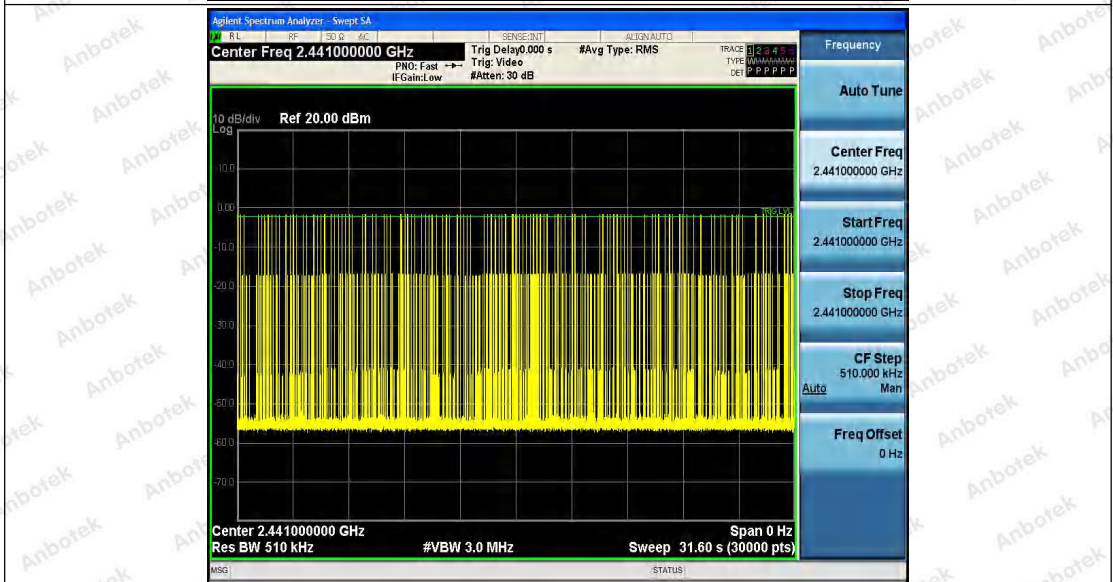
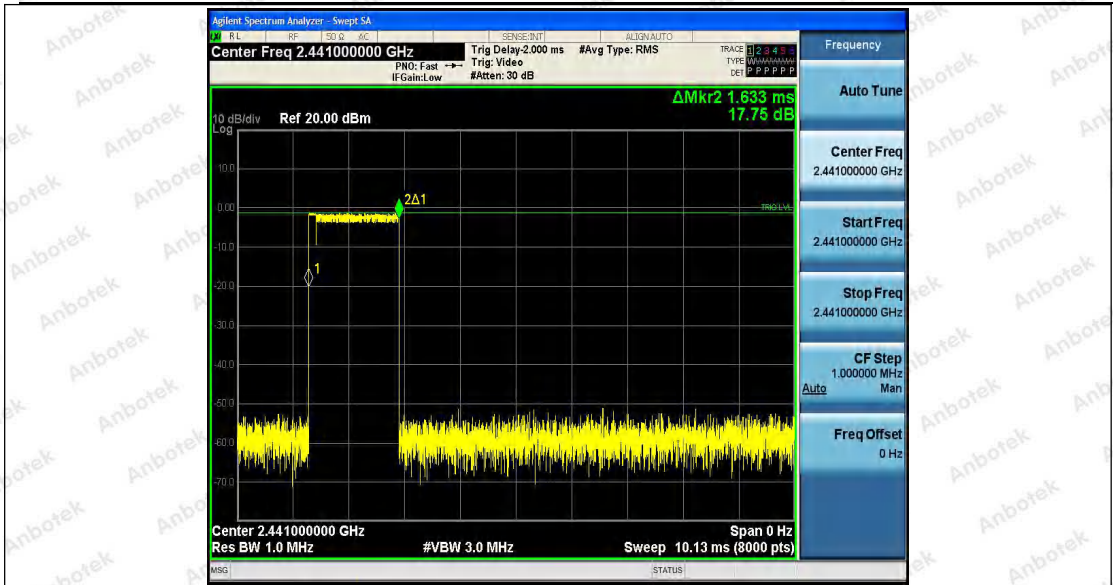


2DH3_Ant1_Hop

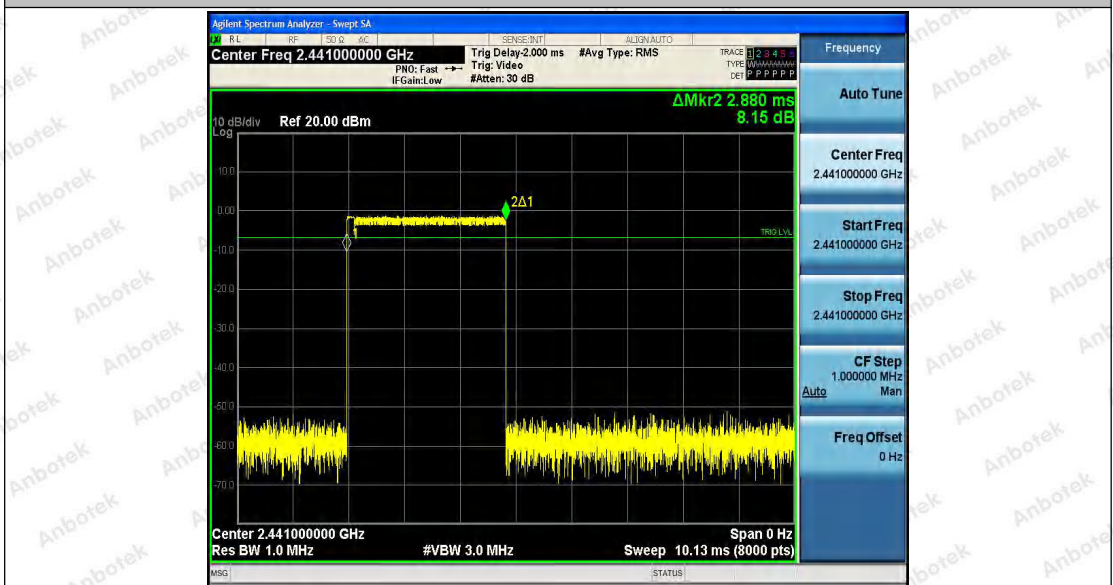
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2DH5_Ant1_Hop

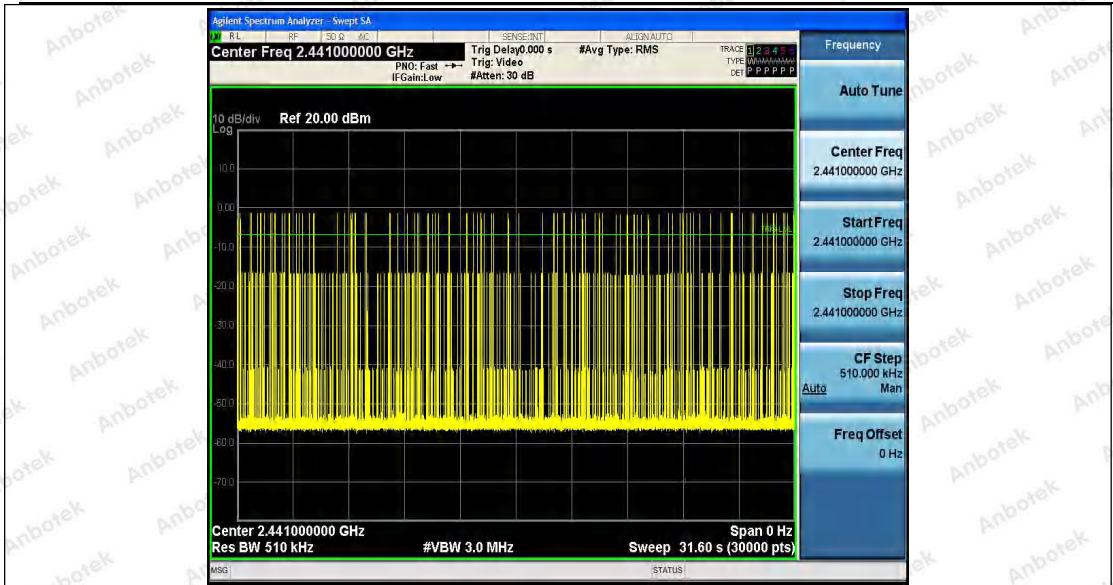


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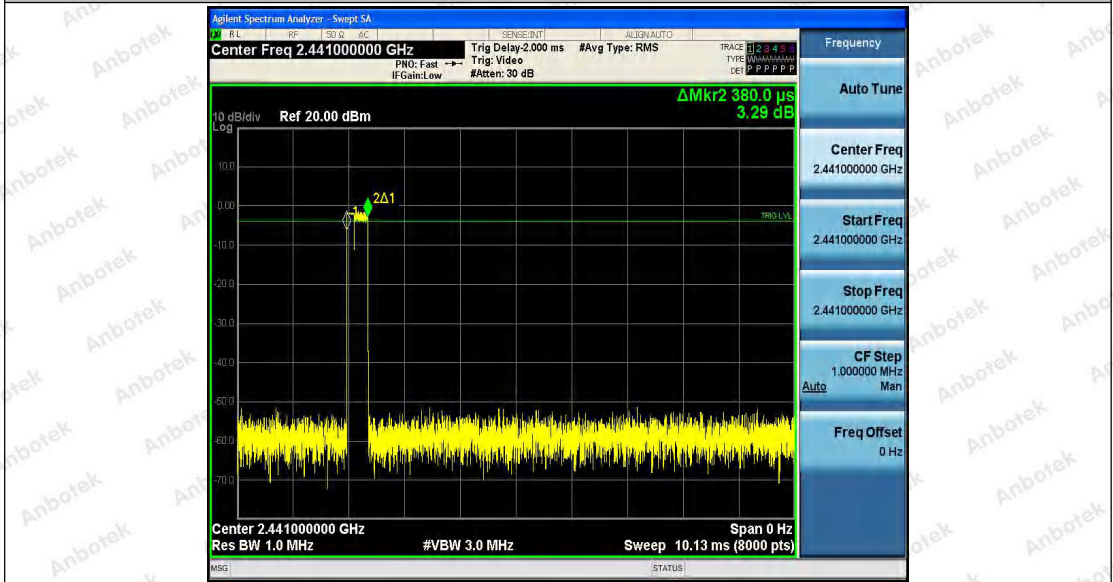
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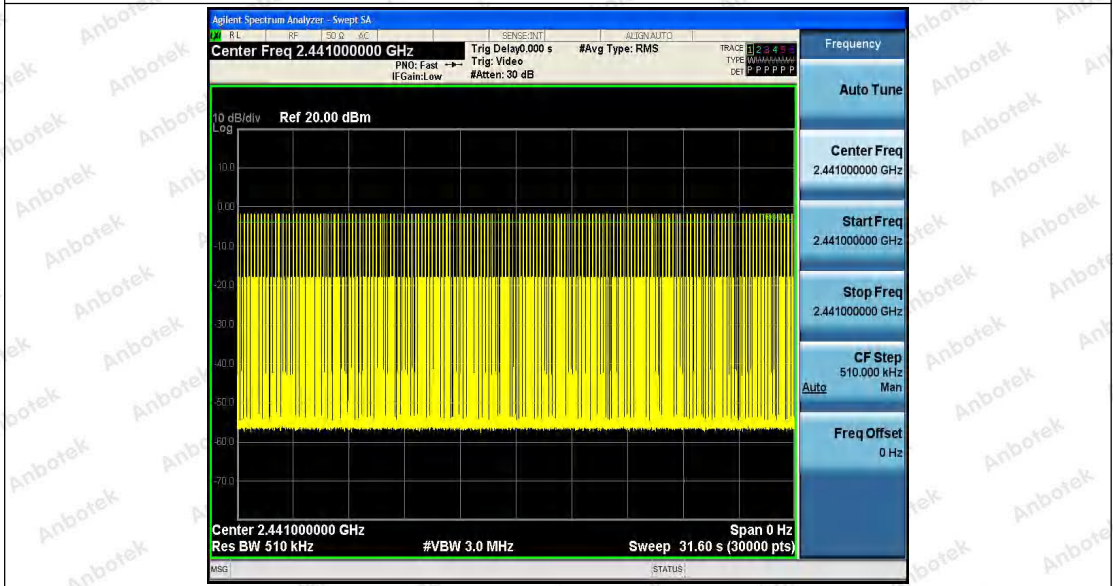
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

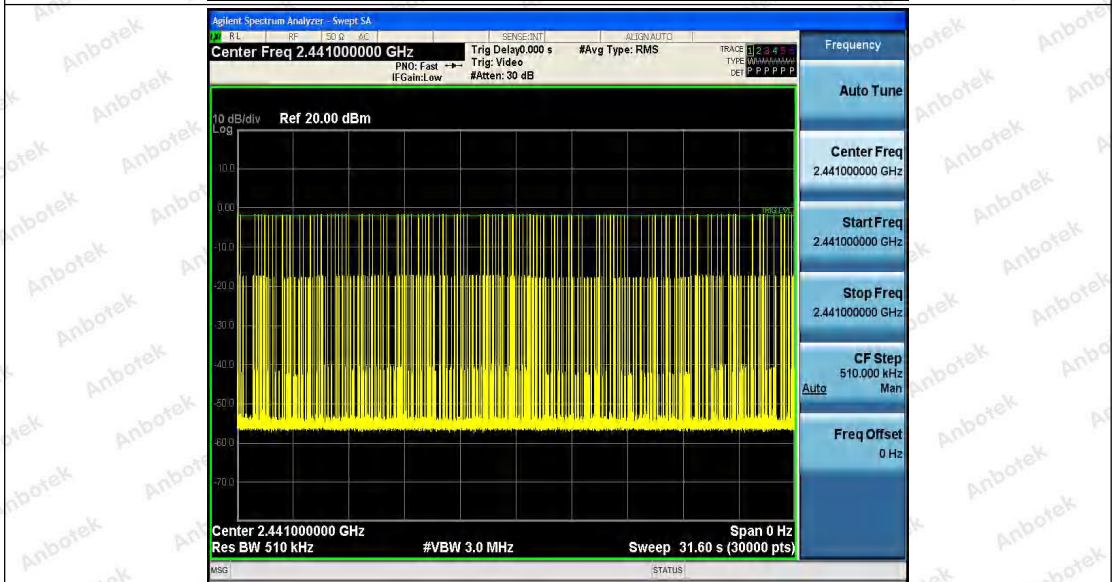
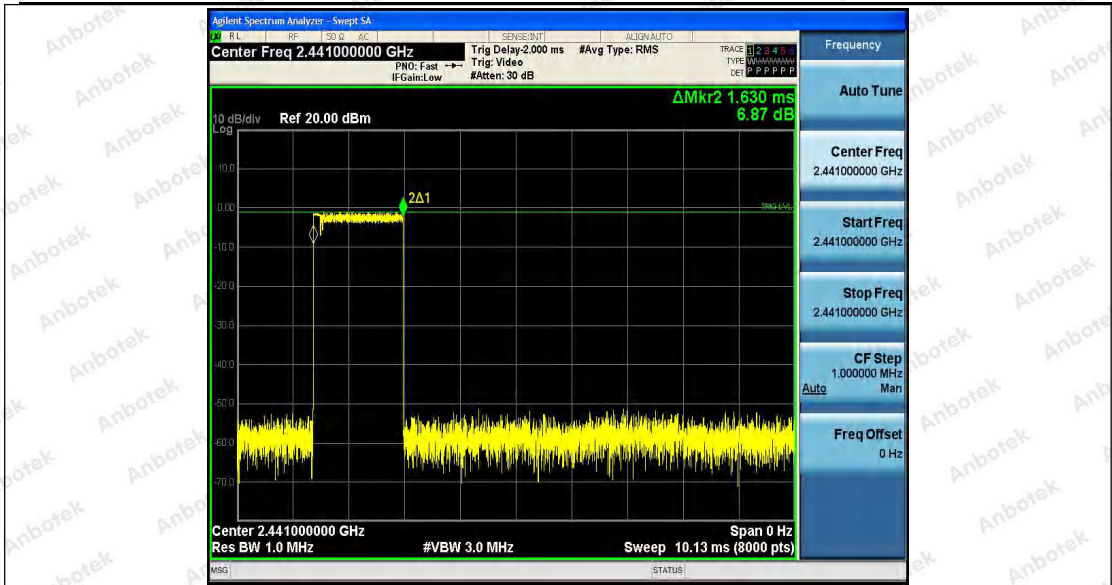


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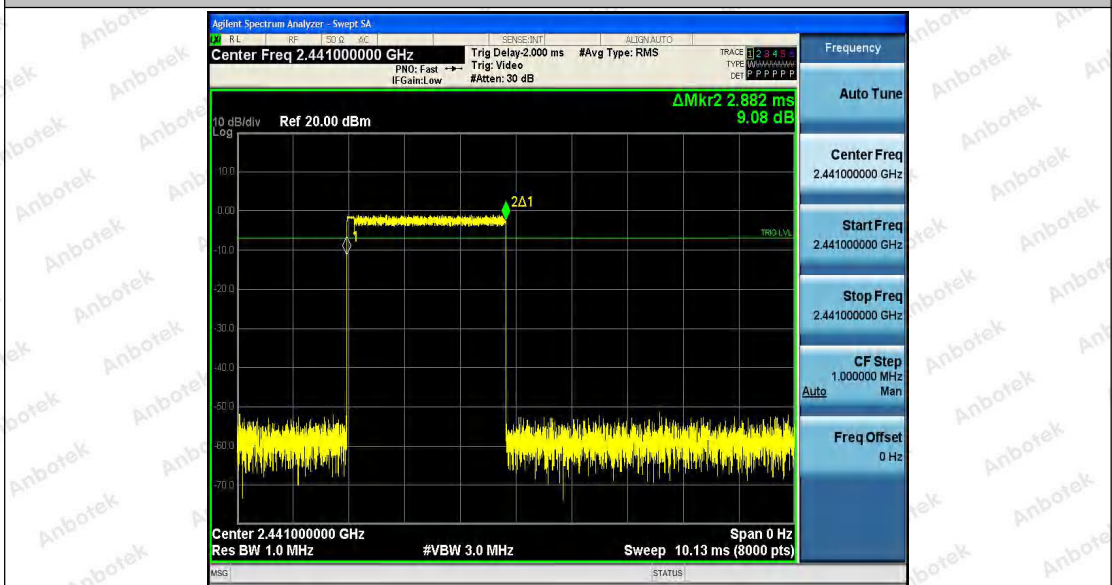
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3DH5_Ant1_Hop

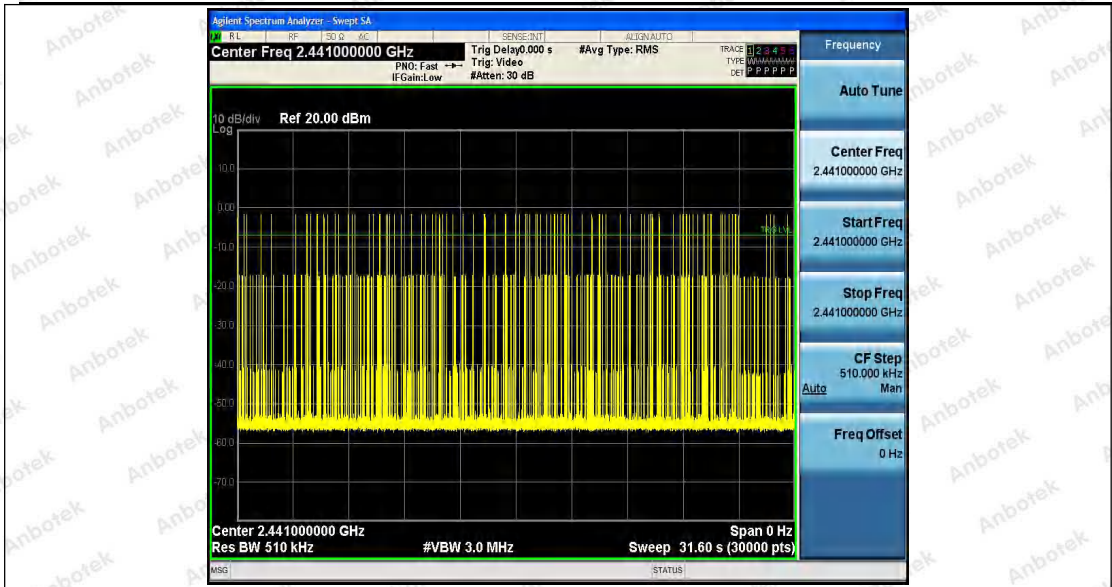


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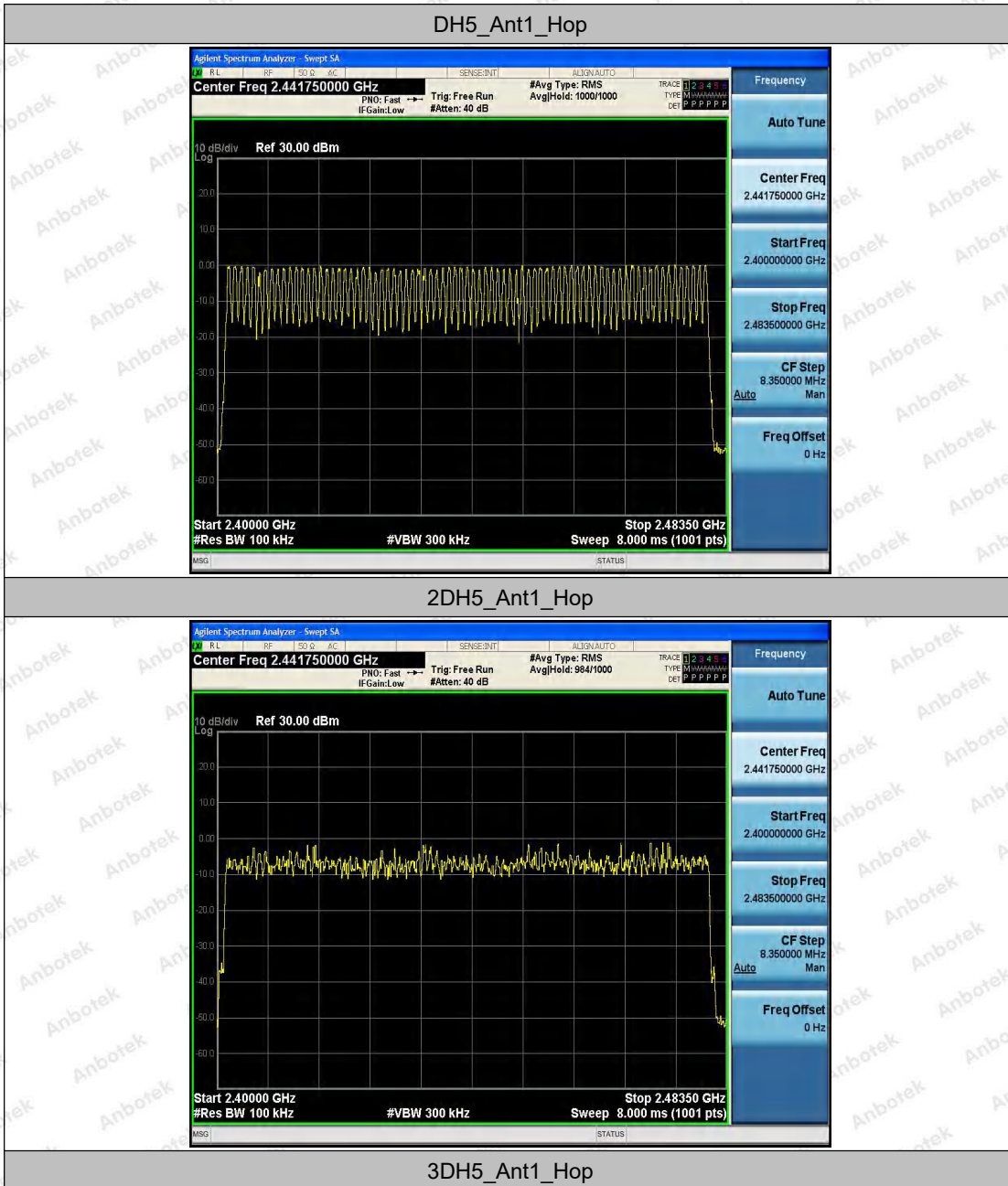
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Appendix F: Number of hopping channels

Test Result

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

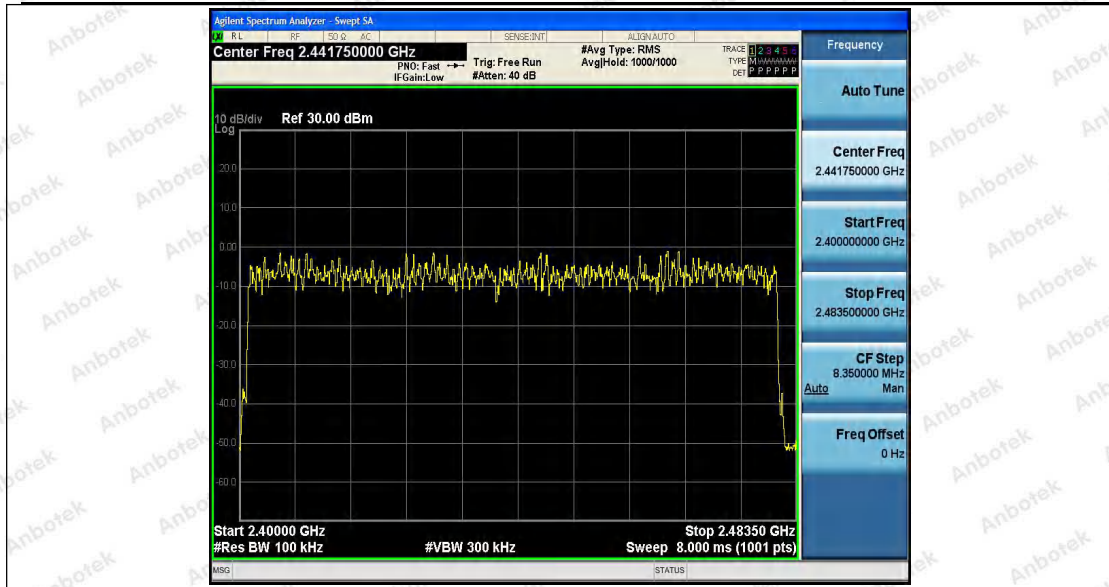


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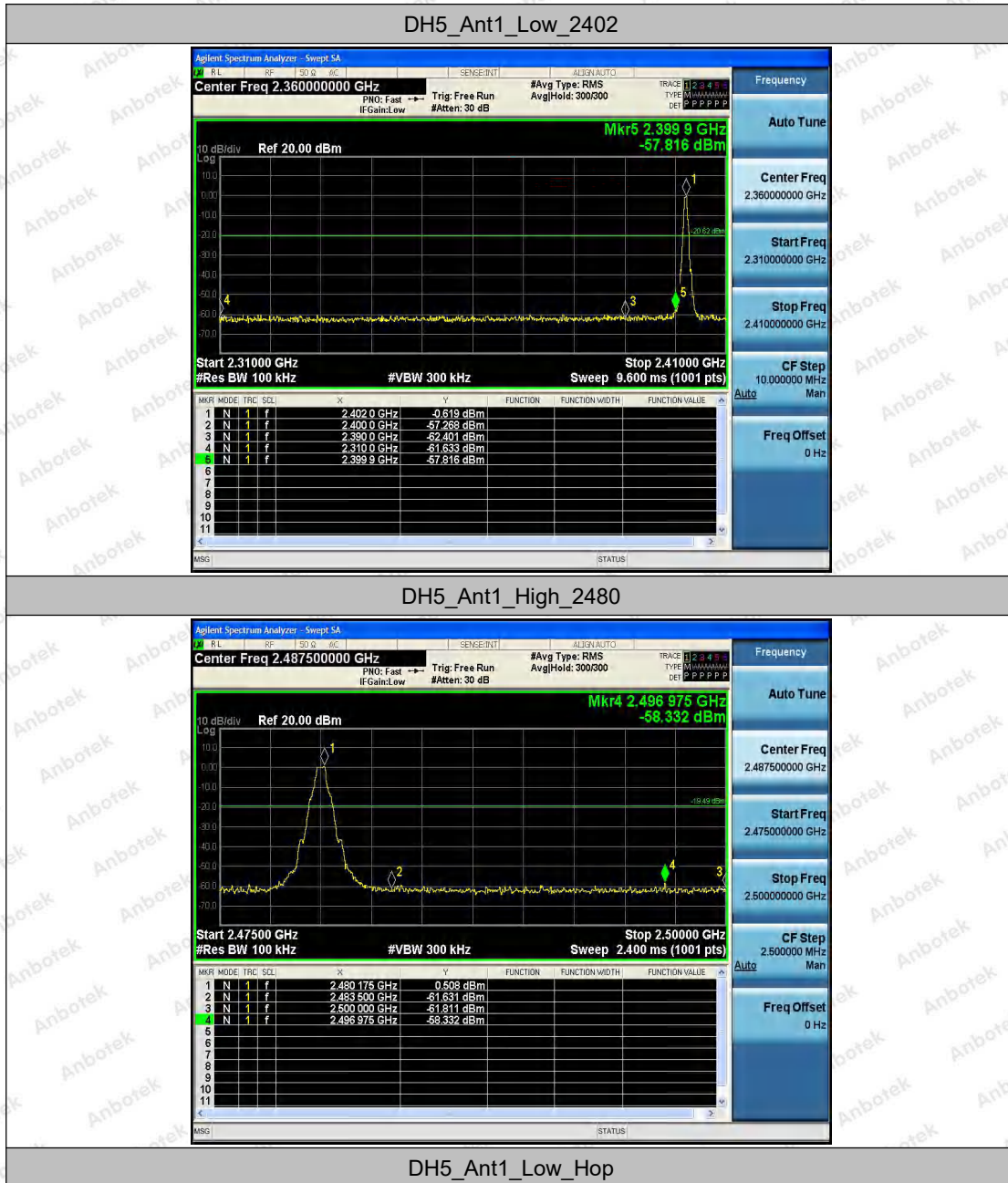
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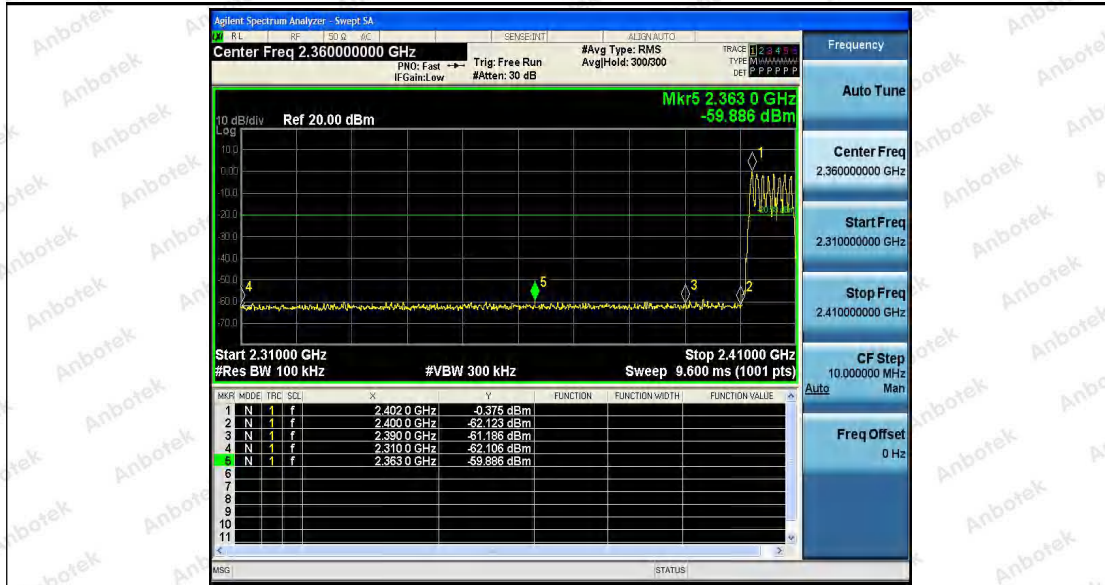
Appendix G: Band edge measurements

Test Result

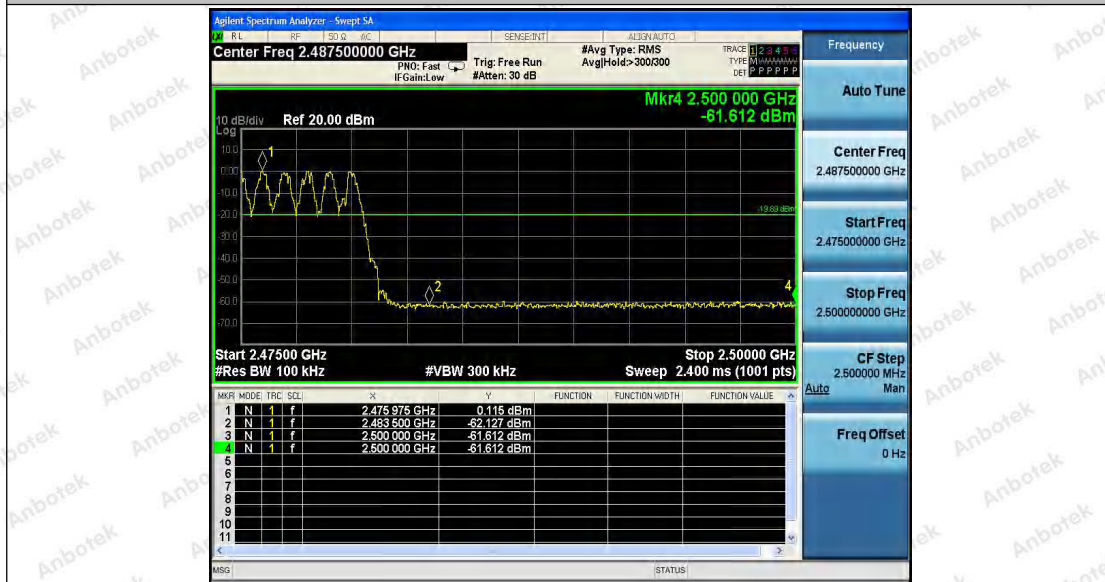
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.62	-57.82	≤-20.62	PASS
		High	2480	0.51	-58.33	≤-19.49	PASS
		Low	Hop	-0.38	-59.89	≤-20.38	PASS
		High	Hop	0.12	-61.61	≤-19.89	PASS
2DH5	Ant1	Low	2402	-1.90	-56.61	≤-21.9	PASS
		High	2480	-0.83	-59.78	≤-20.83	PASS
		Low	Hop	-1.91	-59.26	≤-21.91	PASS
		High	Hop	-2.56	-61.66	≤-22.56	PASS
3DH5	Ant1	Low	2402	-1.41	-56.95	≤-21.41	PASS
		High	2480	-1.51	-59.19	≤-21.51	PASS
		Low	Hop	-4.21	-59.61	≤-24.21	PASS
		High	Hop	-4.46	-61.98	≤-24.46	PASS

Test Graphs

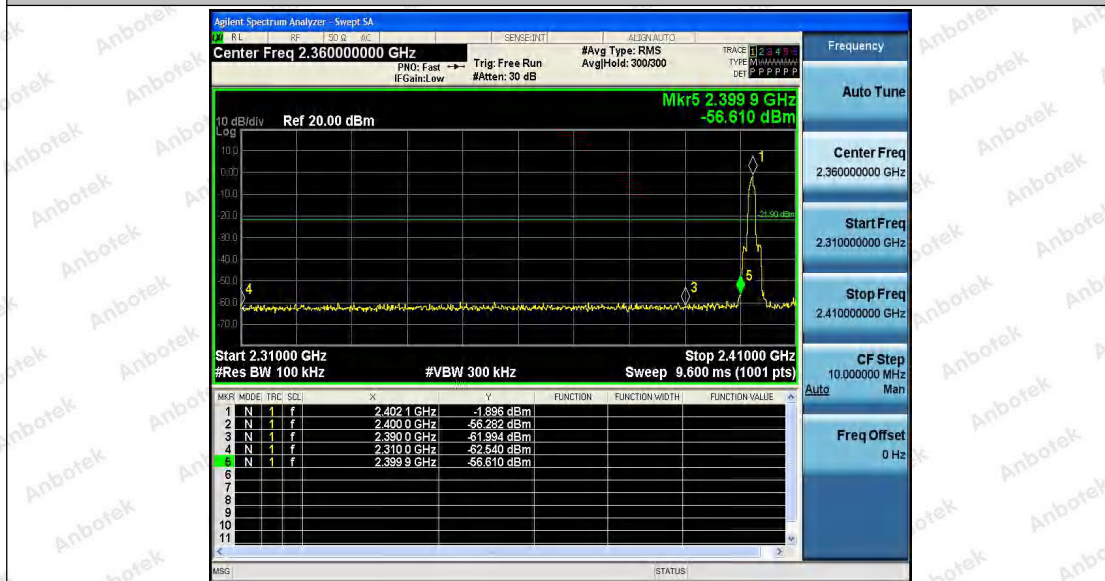




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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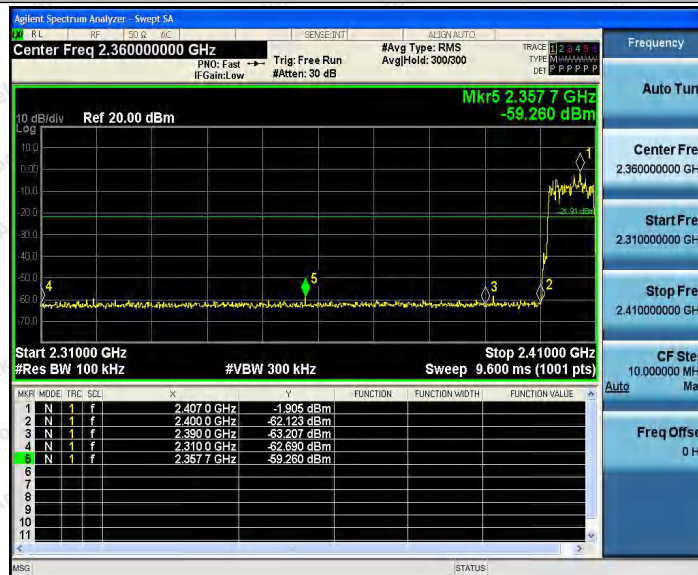
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



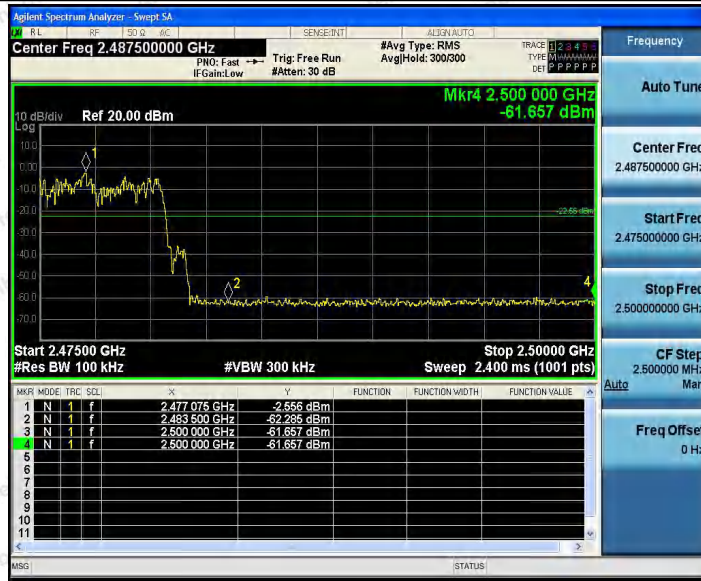
2DH5_Ant1_High_Hop

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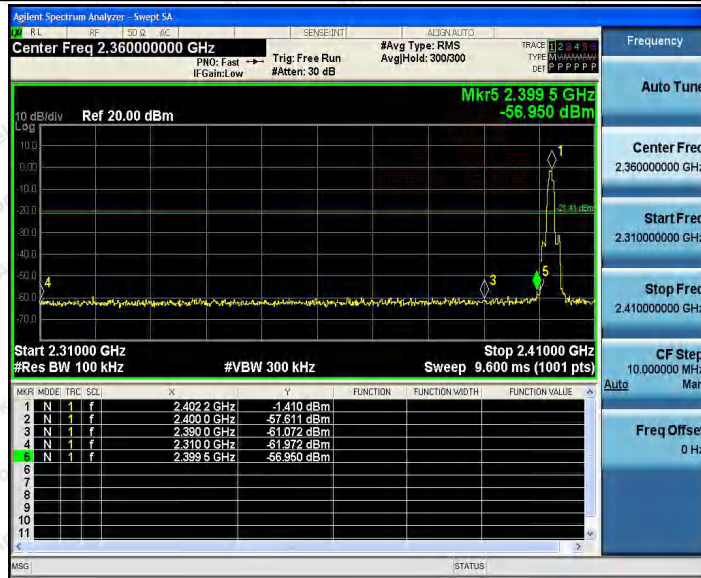
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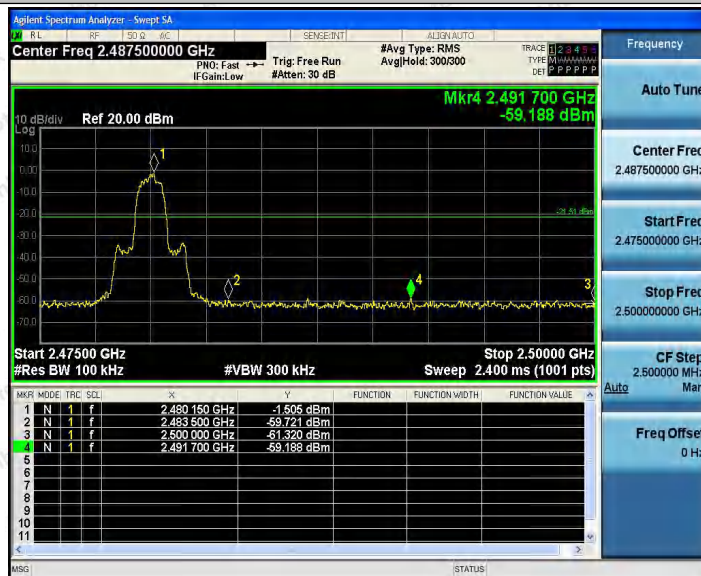
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3DH5_Ant1_Low_2402



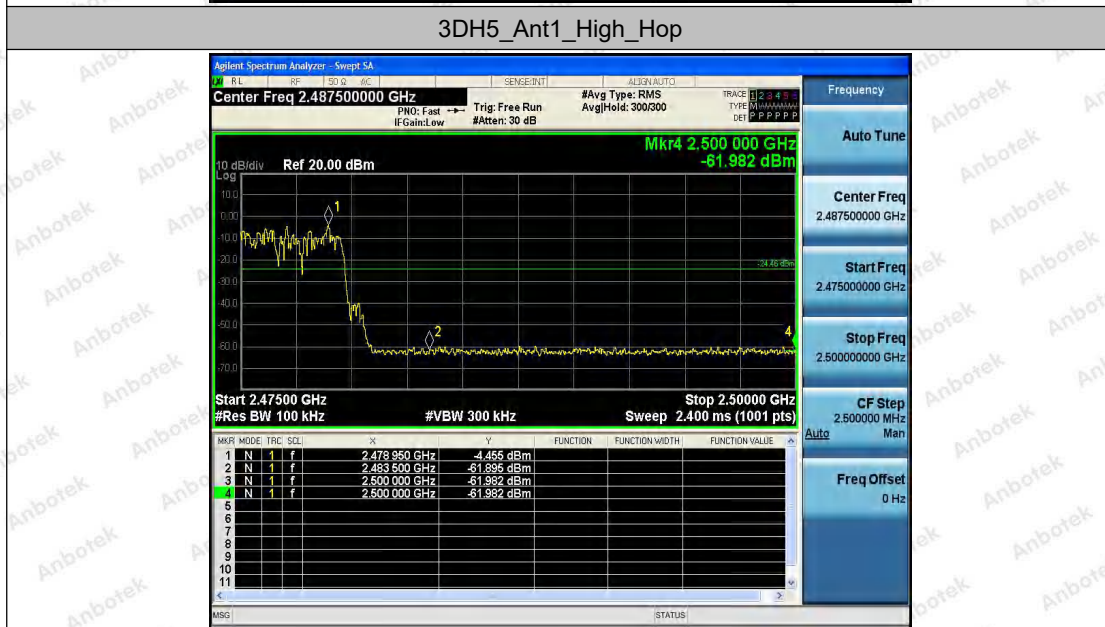
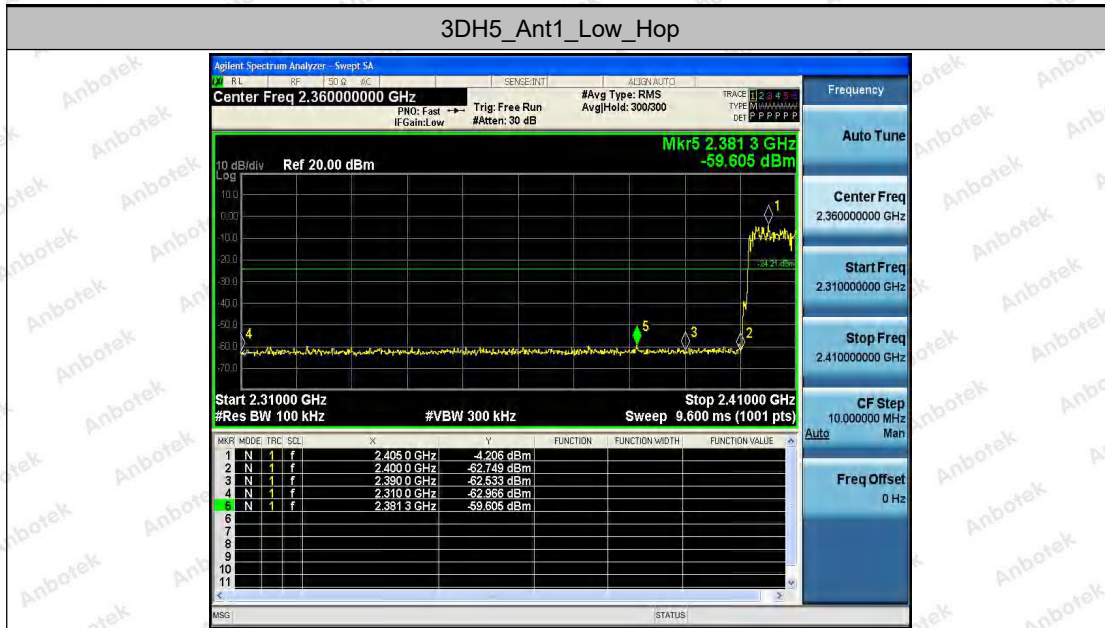
3DH5_Ant1_High_2480



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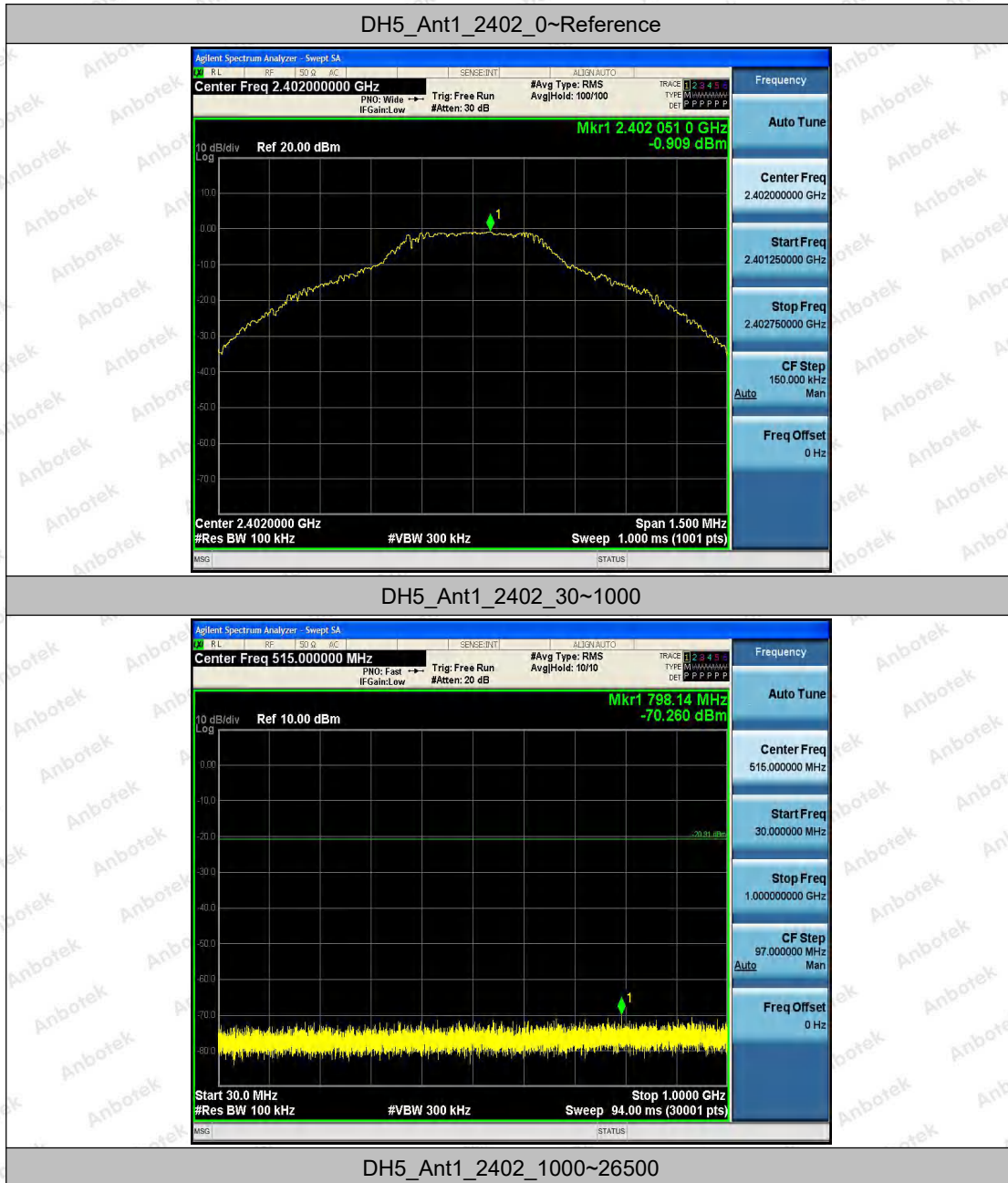
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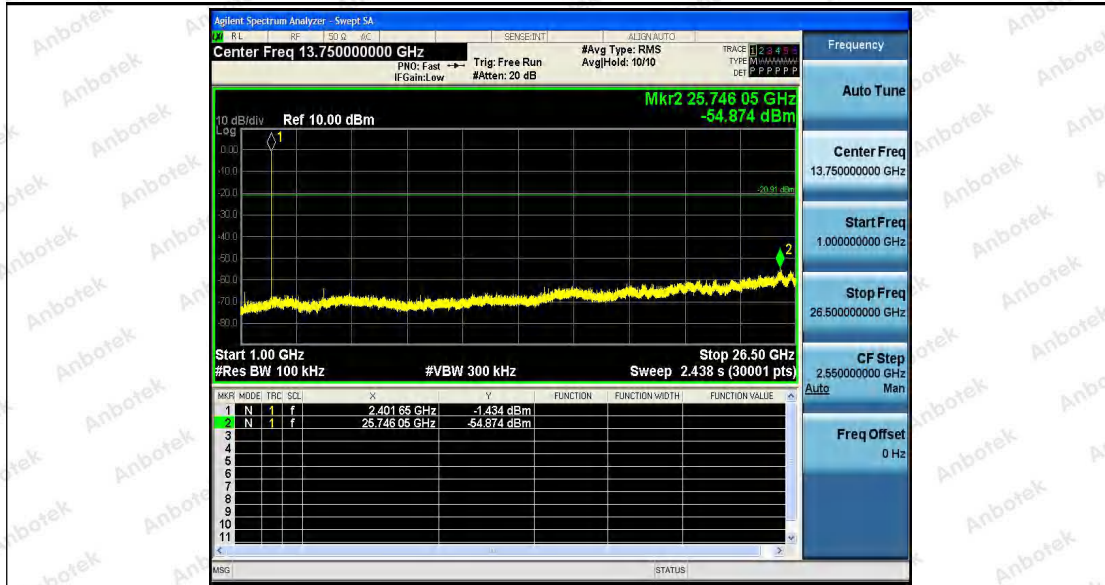
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-70.26	≤-20.91	PASS
			1000~26500	-0.91	-54.87	≤-20.91	PASS
		2441	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-70.38	≤-20.38	PASS
			1000~26500	-0.38	-55.04	≤-20.38	PASS
		2480	Reference	0.44	0.44	---	PASS
			30~1000	0.44	-70.53	≤-19.56	PASS
			1000~26500	0.44	-54.95	≤-19.56	PASS
2DH5	Ant1	2402	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-70.59	≤-22.59	PASS
			1000~26500	-2.59	-55.43	≤-22.59	PASS
		2441	Reference	-2.19	-2.19	---	PASS
			30~1000	-2.19	-70.82	≤-22.19	PASS
			1000~26500	-2.19	-54.97	≤-22.19	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-69.73	≤-21.16	PASS
			1000~26500	-1.16	-55.79	≤-21.16	PASS
3DH5	Ant1	2402	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-70.56	≤-21.96	PASS
			1000~26500	-1.96	-55.27	≤-21.96	PASS
		2441	Reference	-2.03	-2.03	---	PASS
			30~1000	-2.03	-69.52	≤-22.03	PASS
			1000~26500	-2.03	-55.38	≤-22.03	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.82	≤-20.96	PASS
			1000~26500	-0.96	-54.55	≤-20.96	PASS

Test Graphs

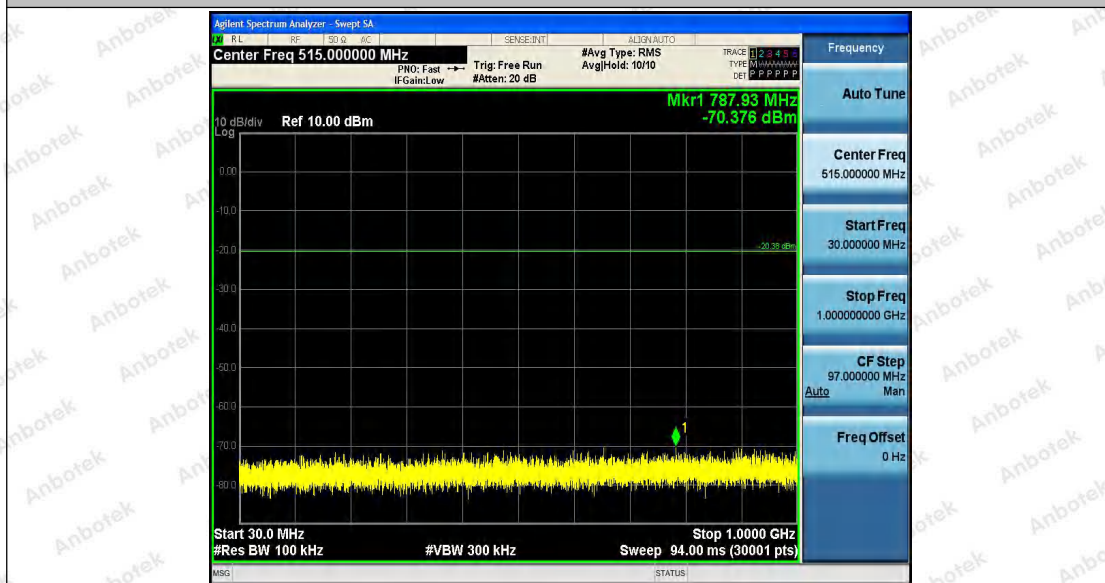




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

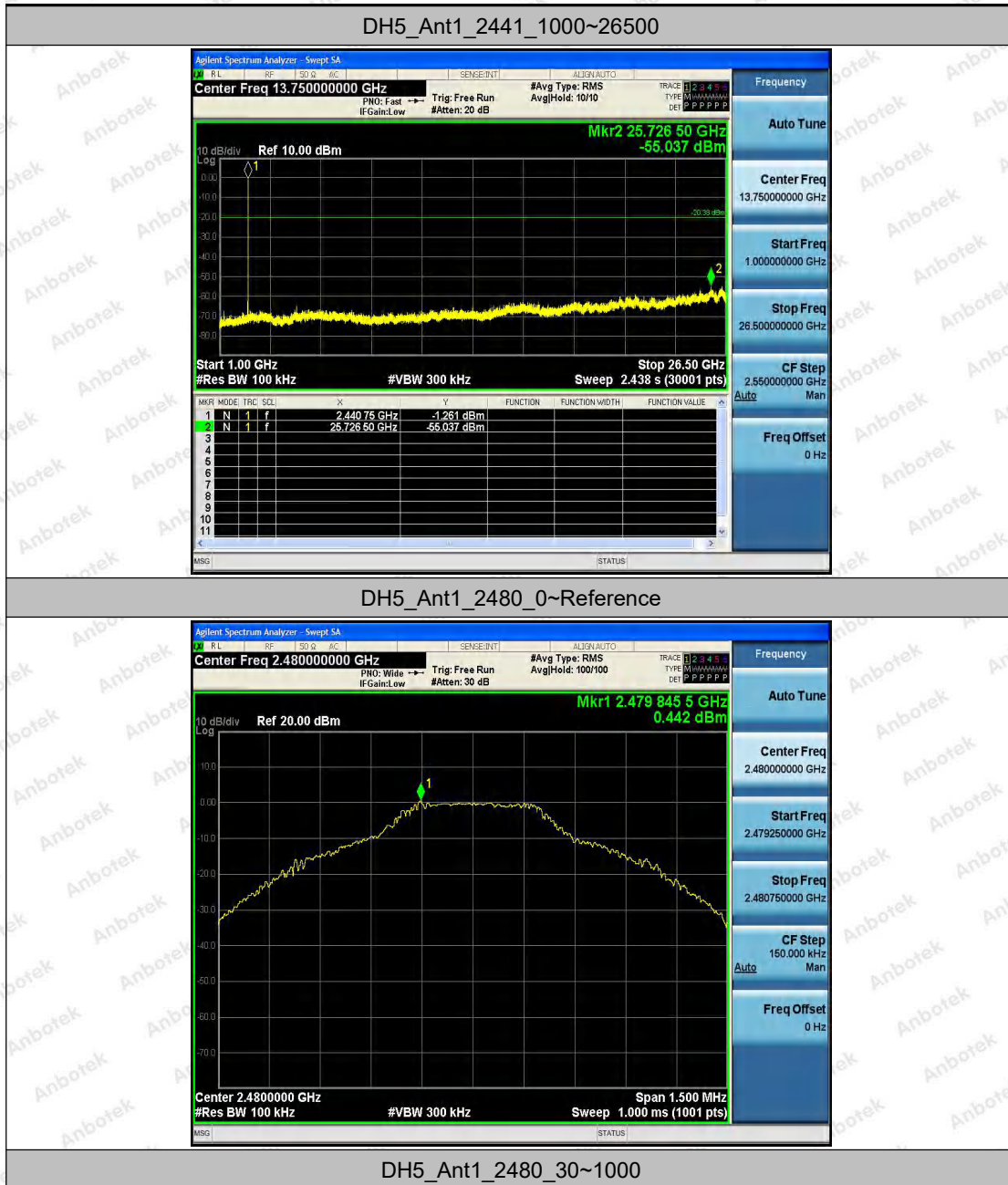


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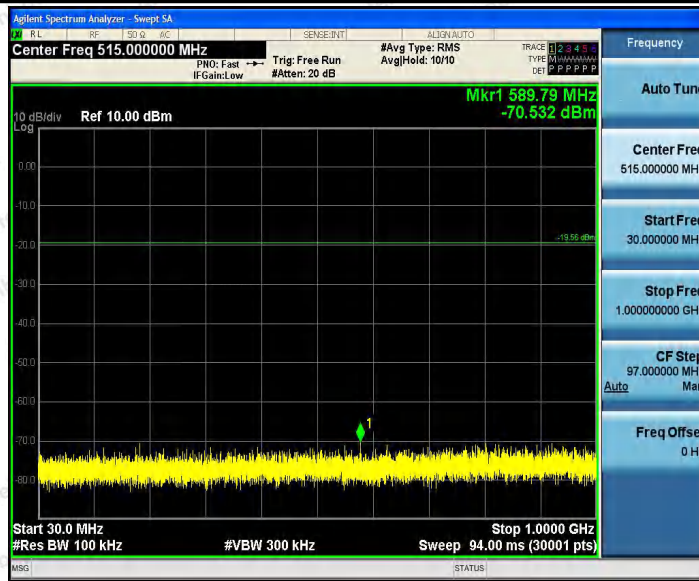


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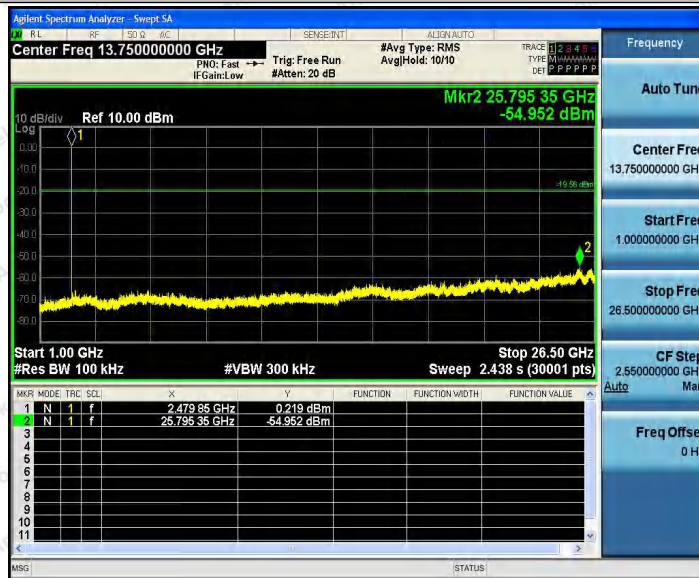
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

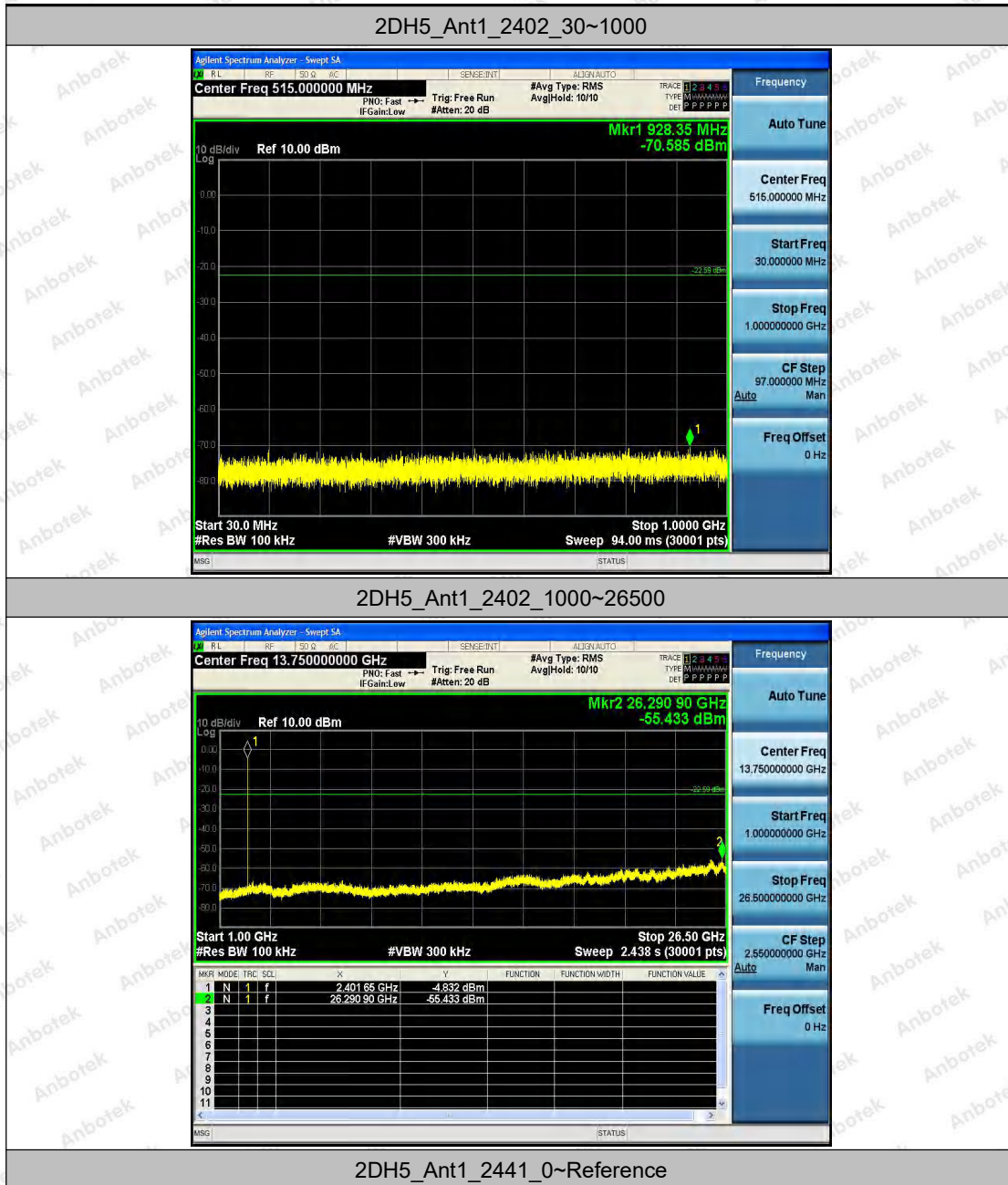


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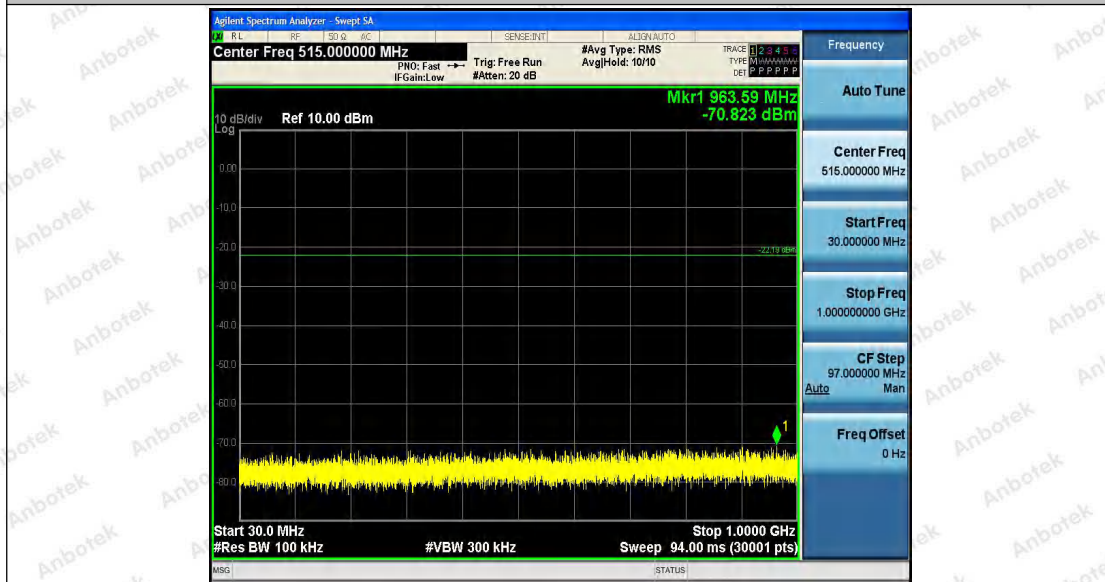
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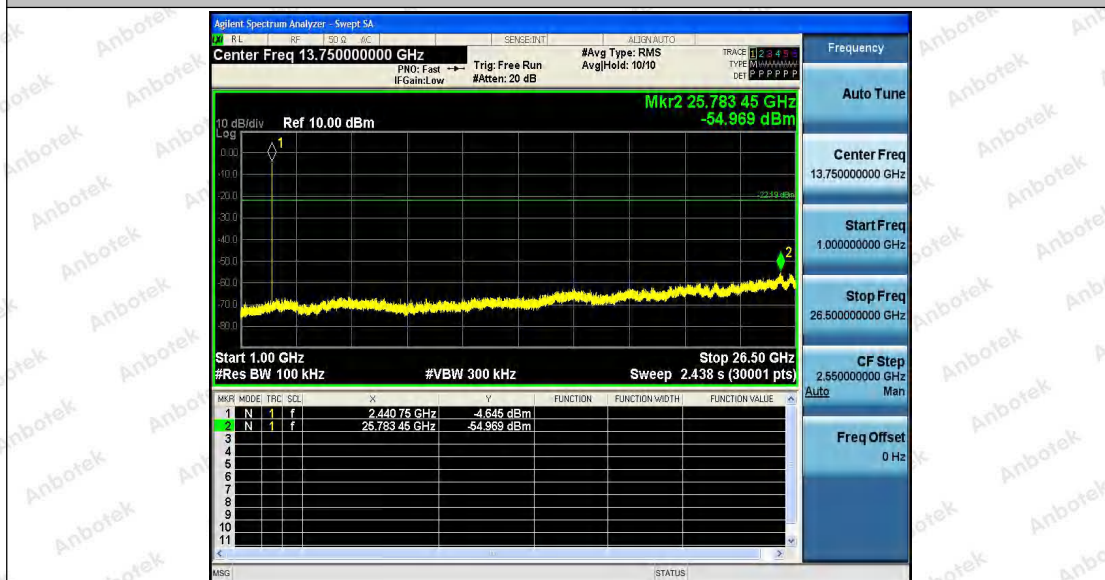
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

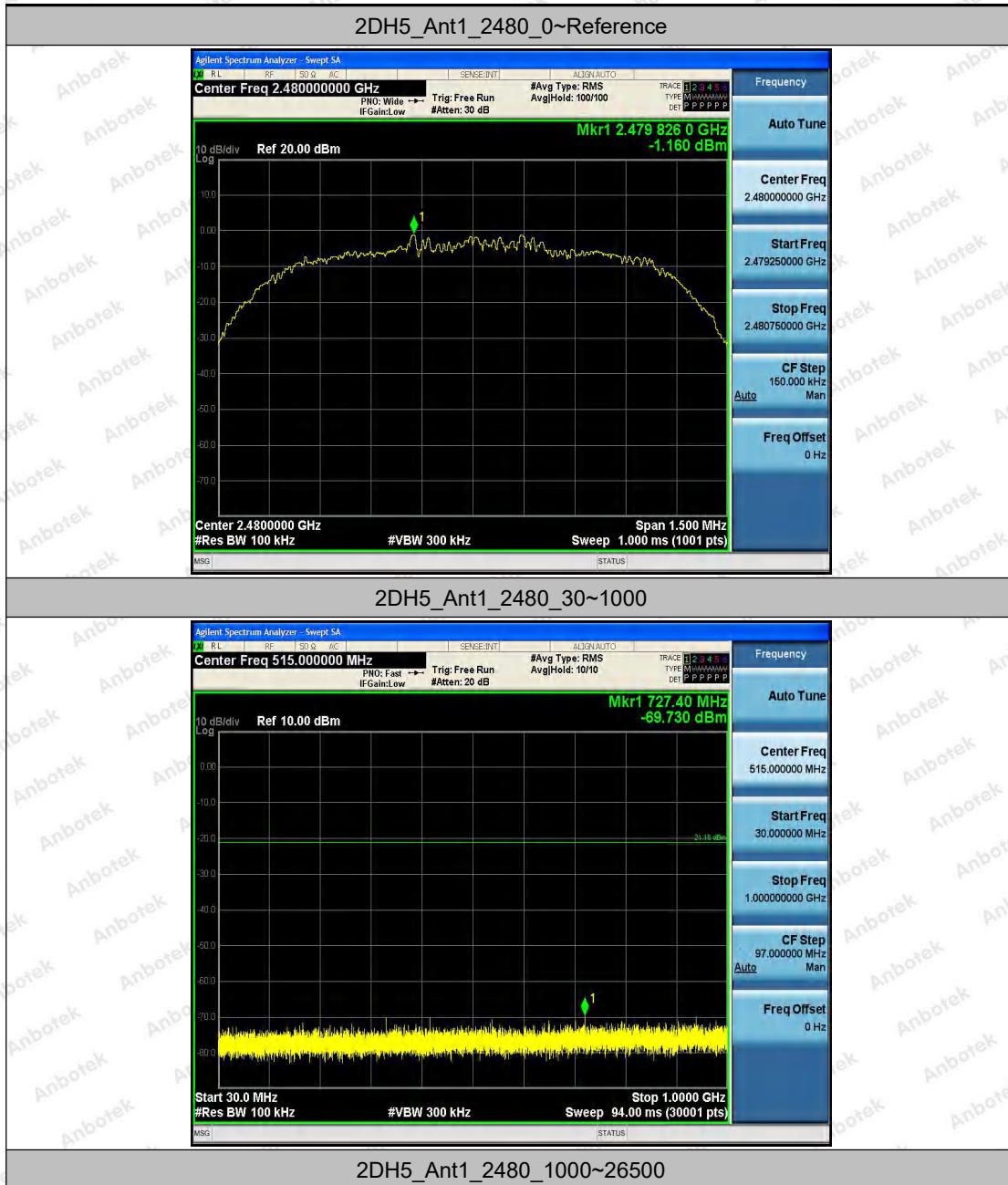


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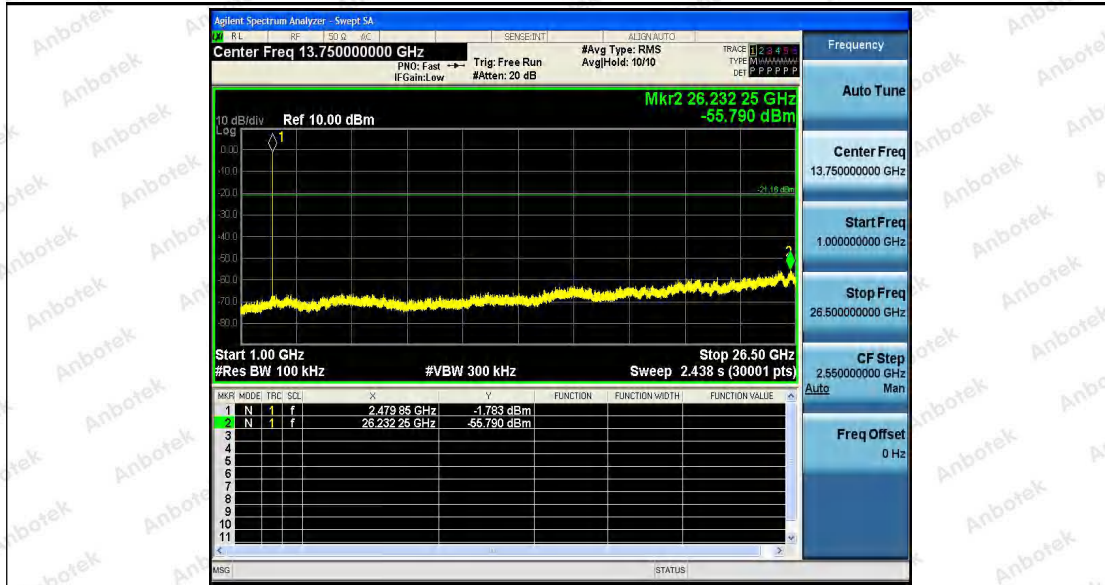


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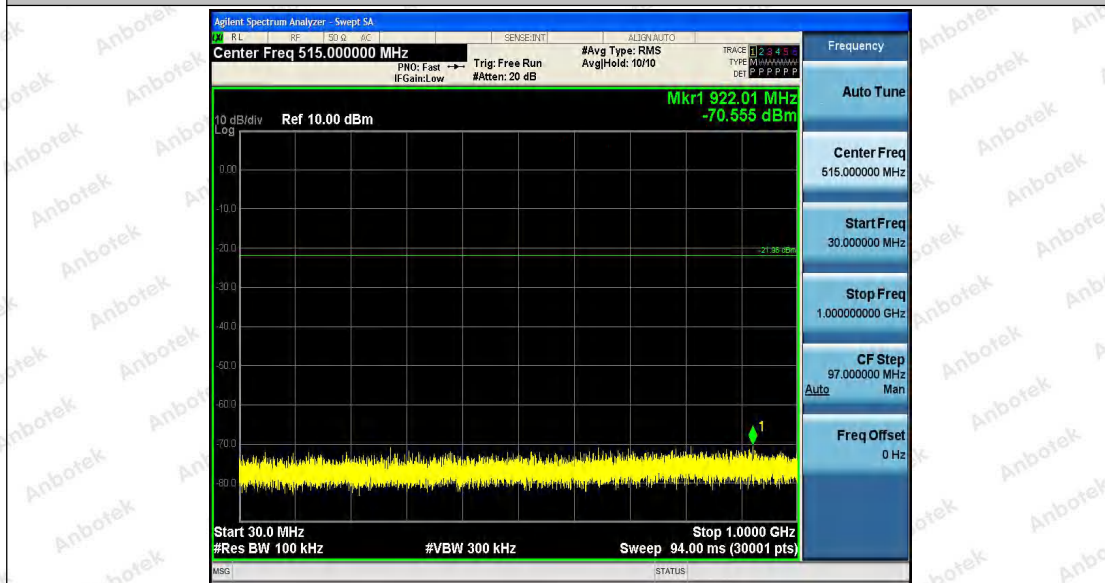
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

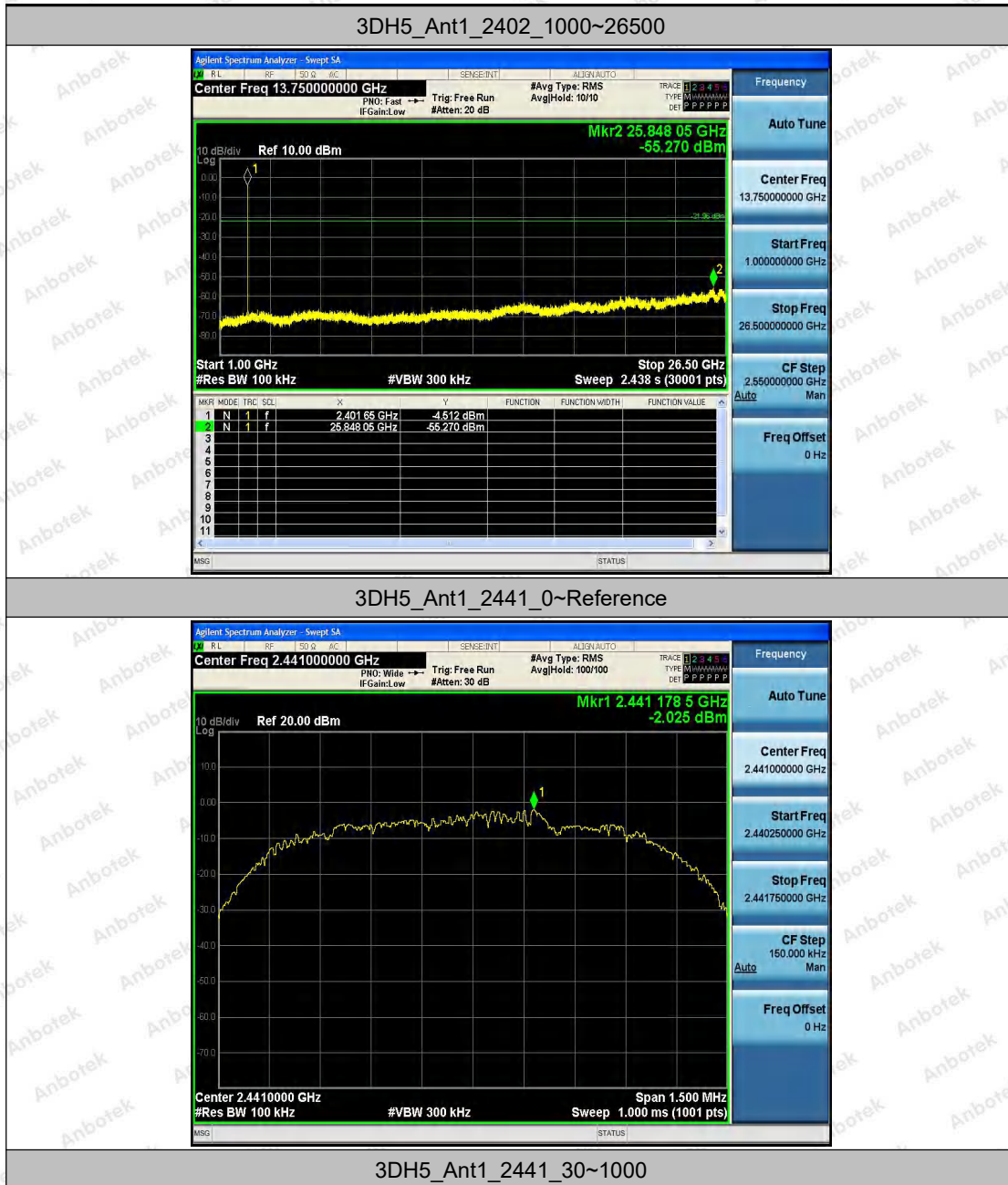


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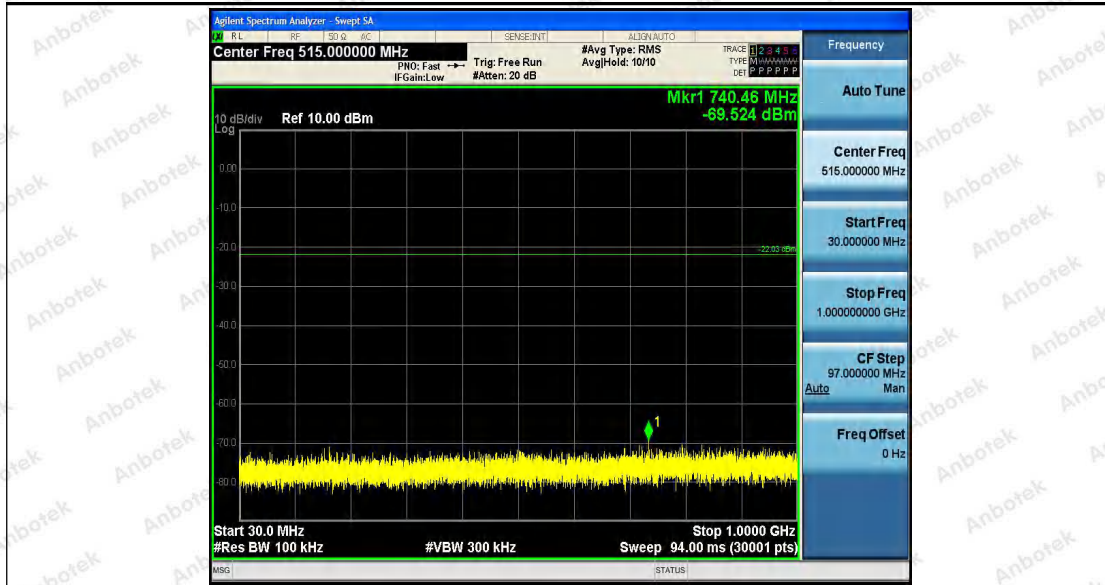


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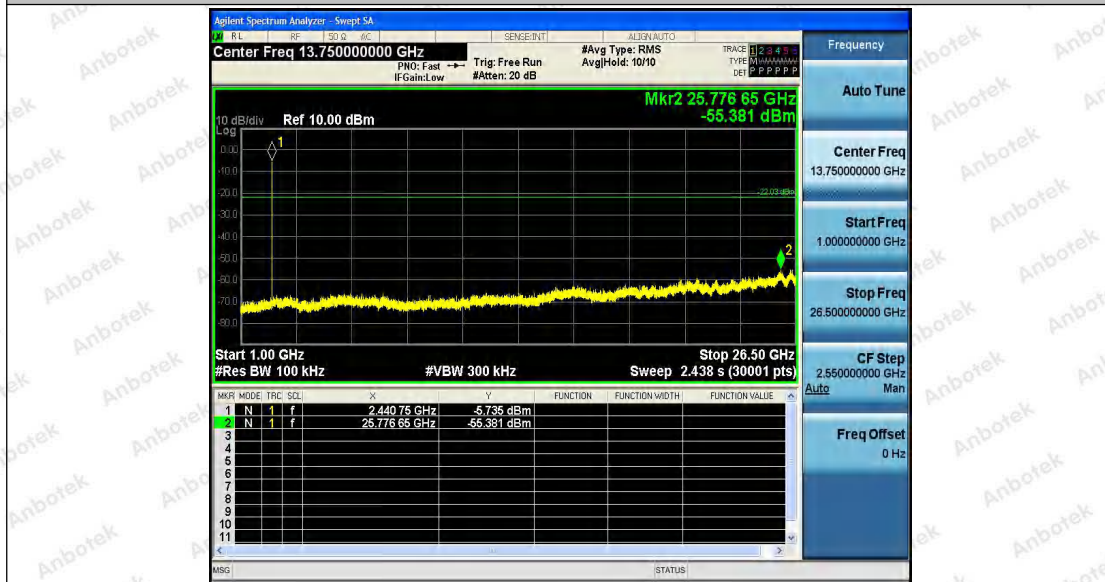
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

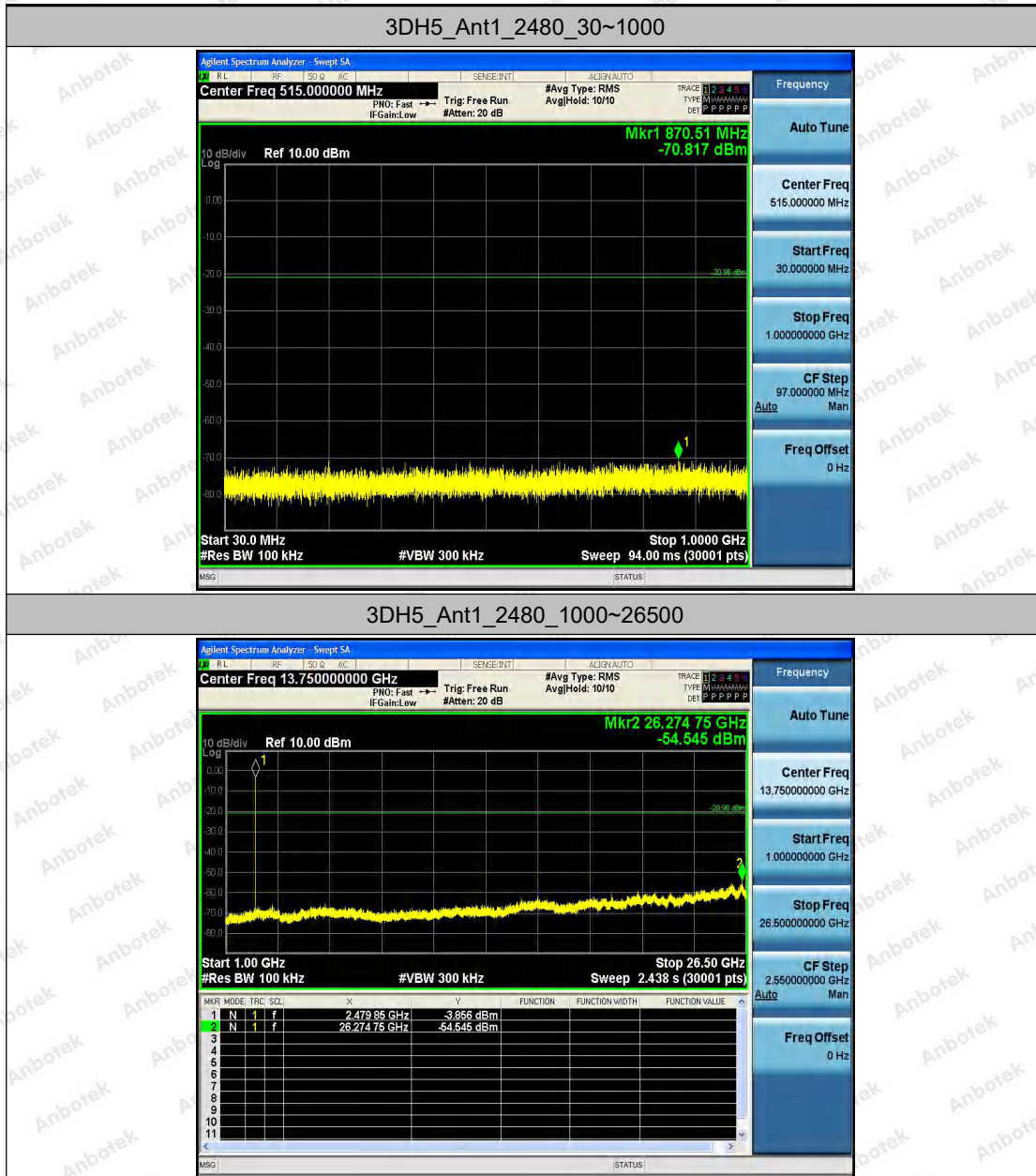


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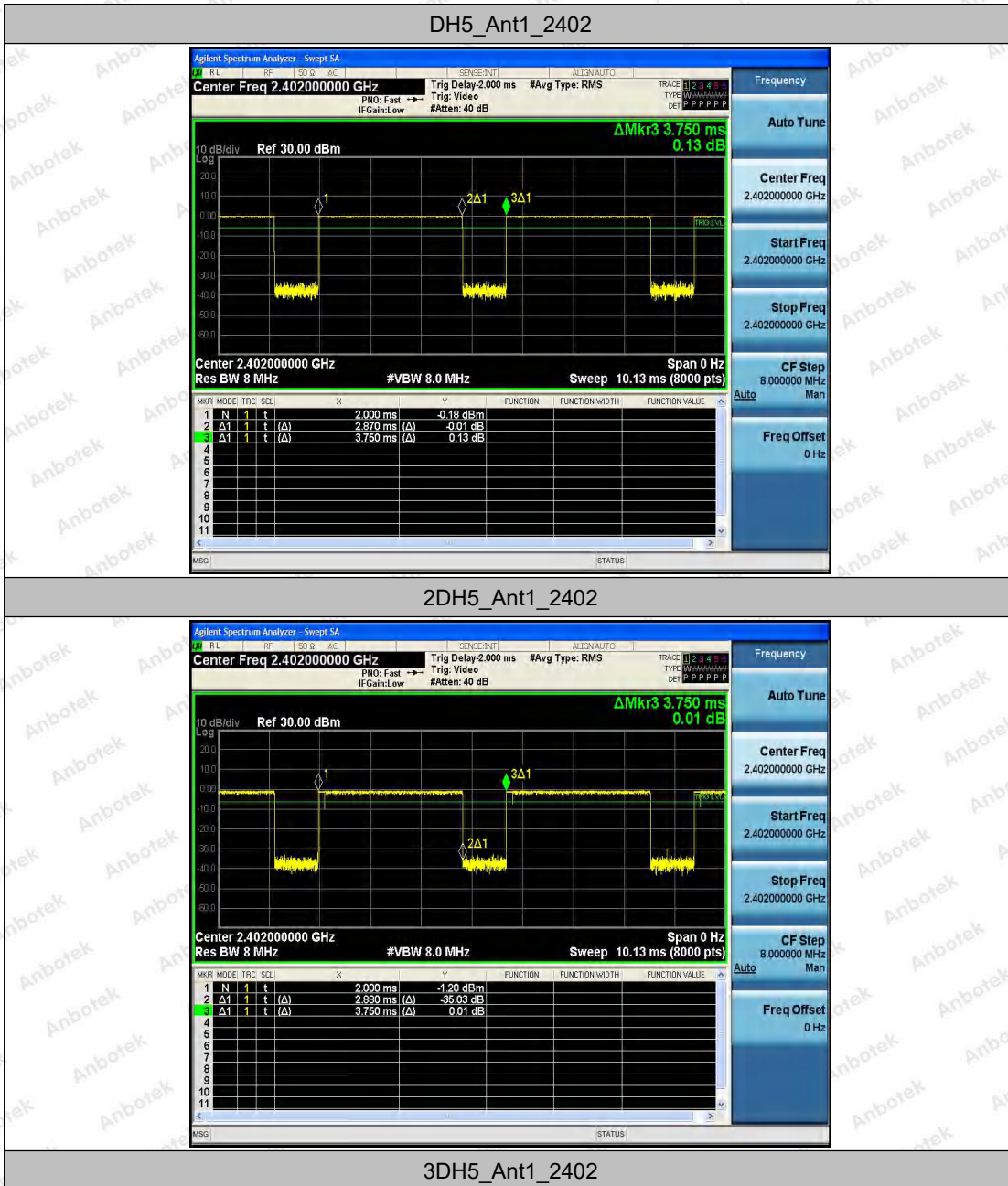
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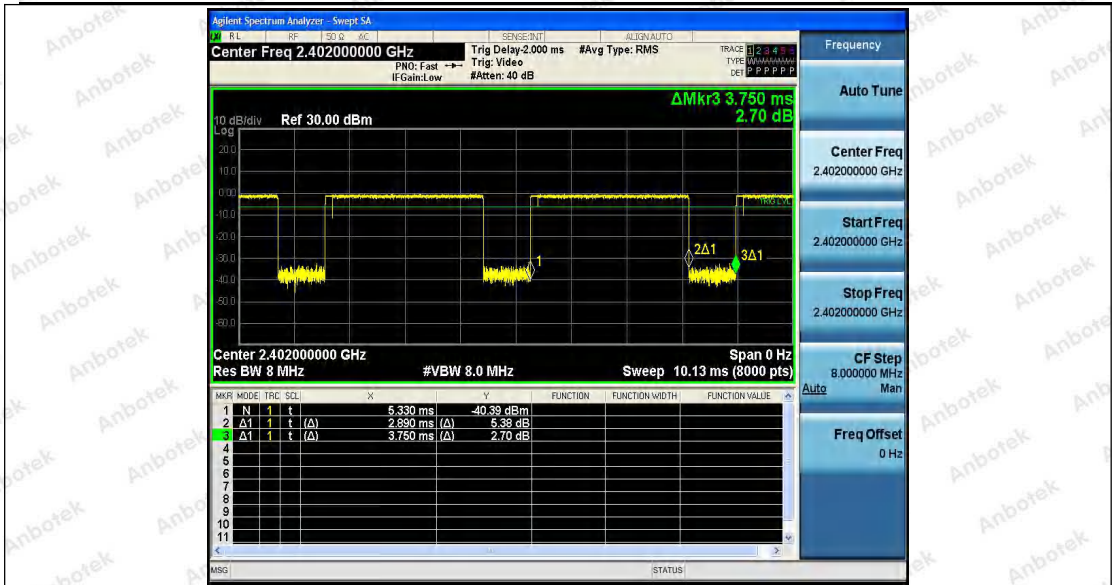
Appendix I: Duty Cycle

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	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---