

Appendix Test Data

Report No.:	18220WC20163401	Test Sample No.:	1-2-2
Start Test Date:	2022.7.21	Finish Test Date:	2022.7.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
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	0.987	2401.502	2402.489	---	PASS
		2441	1.005	2440.499	2441.504	---	PASS
		2480	1.020	2479.496	2480.516	---	PASS
2DH5	Ant1	2402	1.320	2401.346	2402.666	---	PASS
		2441	1.293	2440.370	2441.663	---	PASS
		2480	1.311	2479.352	2480.663	---	PASS
3DH5	Ant1	2402	1.344	2401.334	2402.678	---	PASS
		2441	1.329	2440.337	2441.666	---	PASS
		2480	1.287	2479.364	2480.651	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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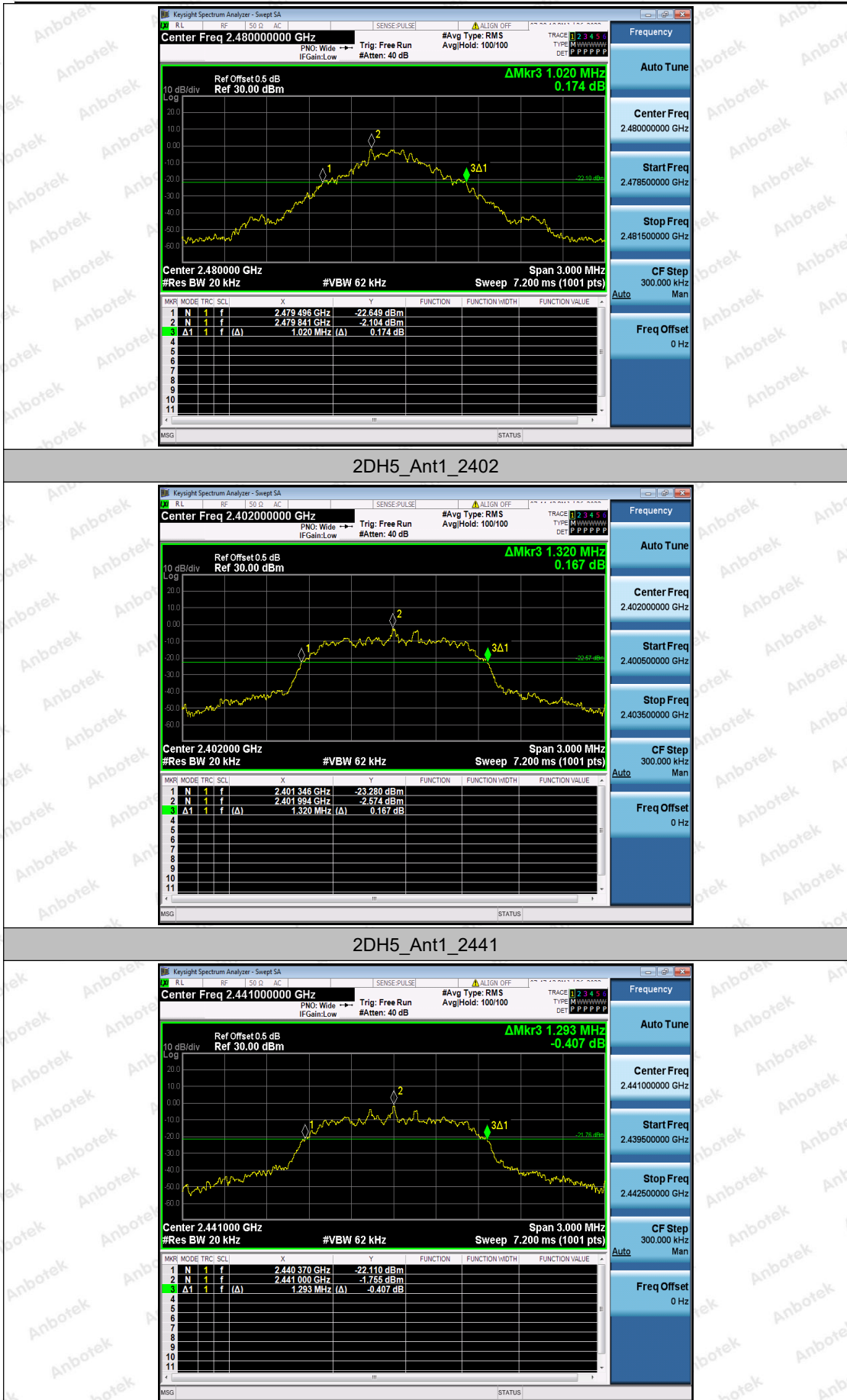
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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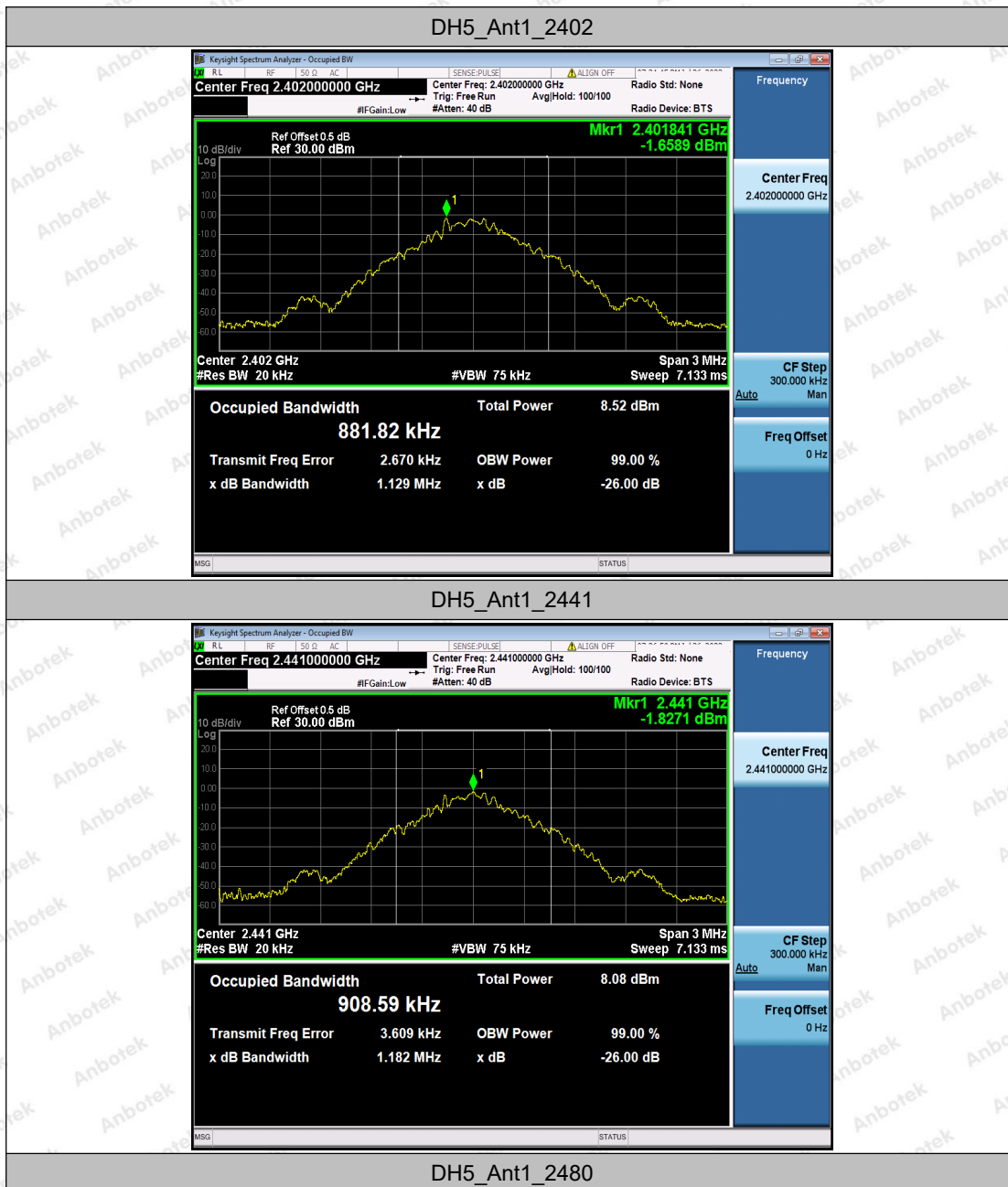
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88182	2401.56 2	2402.444	---	PASS
		2441	0.90859	2440.54 9	2441.458	---	PASS
		2480	0.91866	2479.54 8	2480.466	---	PASS
2DH5	Ant1	2402	1.1902	2401.41 3	2402.603	---	PASS
		2441	1.2156	2440.40 2	2441.618	---	PASS
		2480	1.2038	2479.40 8	2480.612	---	PASS
3DH5	Ant1	2402	1.2056	2401.39 5	2402.601	---	PASS
		2441	1.2103	2440.39 3	2441.603	---	PASS
		2480	1.2074	2479.39 7	2480.604	---	PASS

Test Graphs



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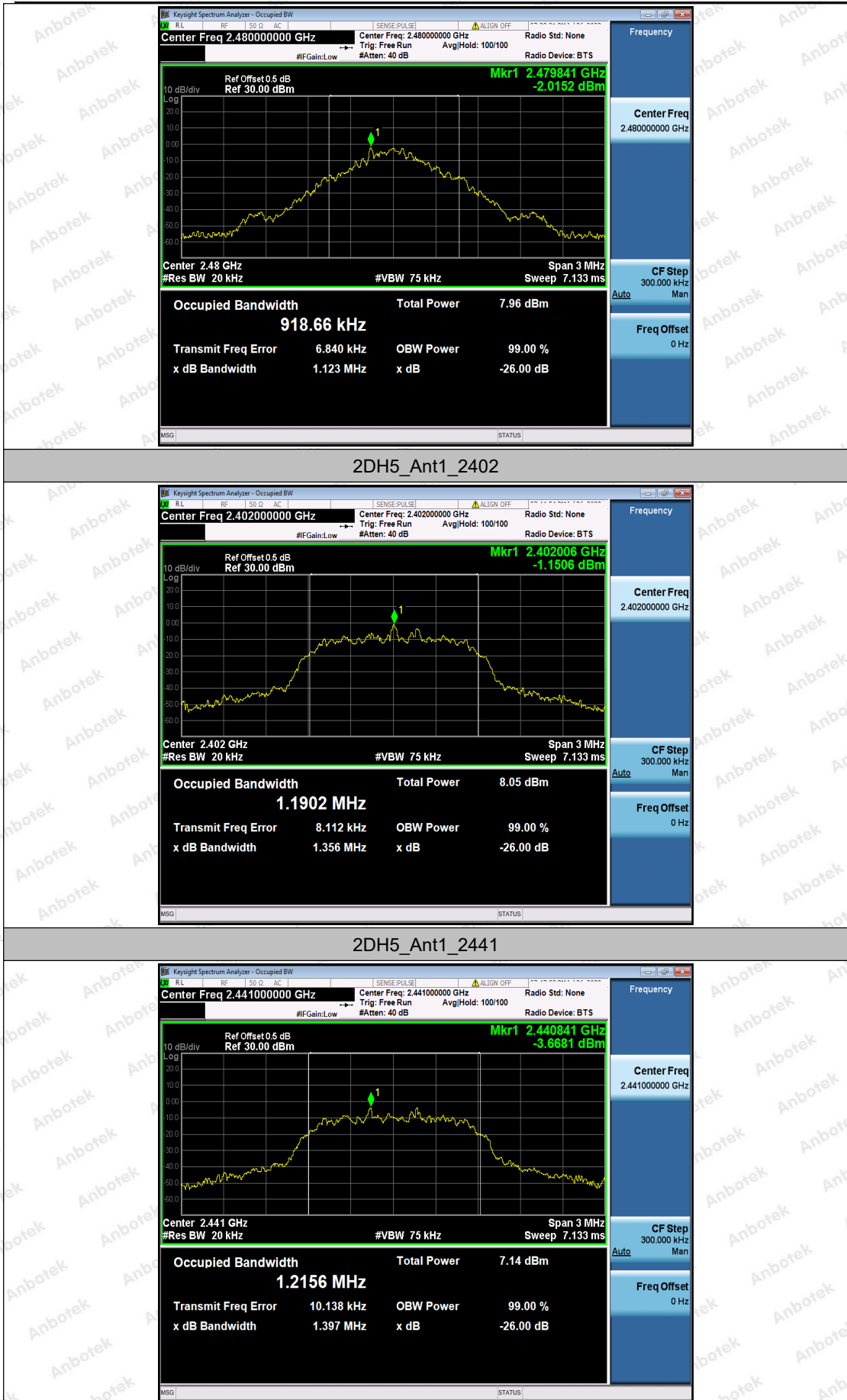
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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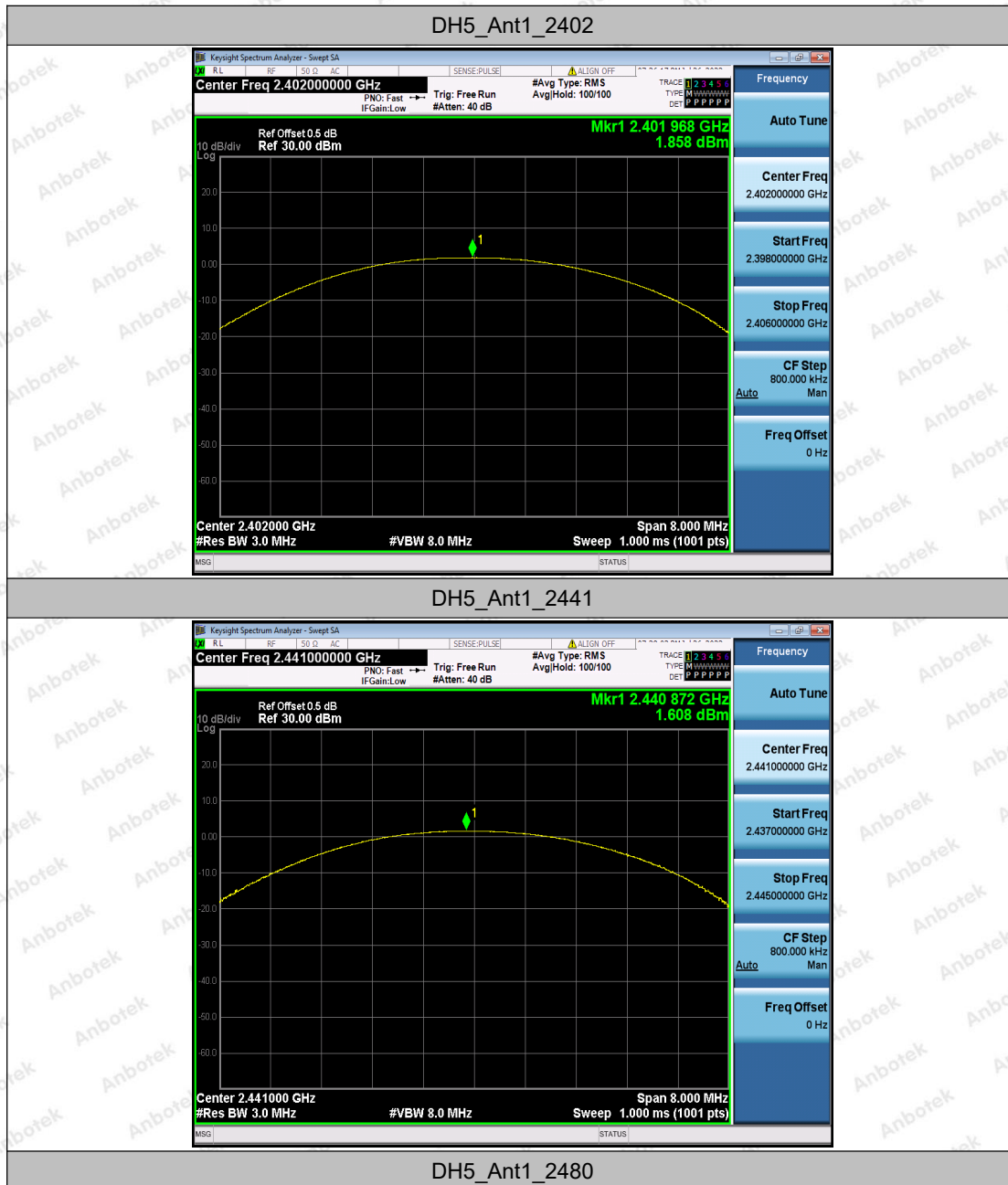
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.86	≤20.97	PASS
		2441	1.61	≤20.97	PASS
		2480	1.26	≤20.97	PASS
2DH5	Ant1	2402	2.69	≤20.97	PASS
		2441	2.43	≤20.97	PASS
		2480	2.08	≤20.97	PASS
3DH5	Ant1	2402	3.13	≤20.97	PASS
		2441	2.84	≤20.97	PASS
		2480	2.53	≤20.97	PASS

Test Graphs

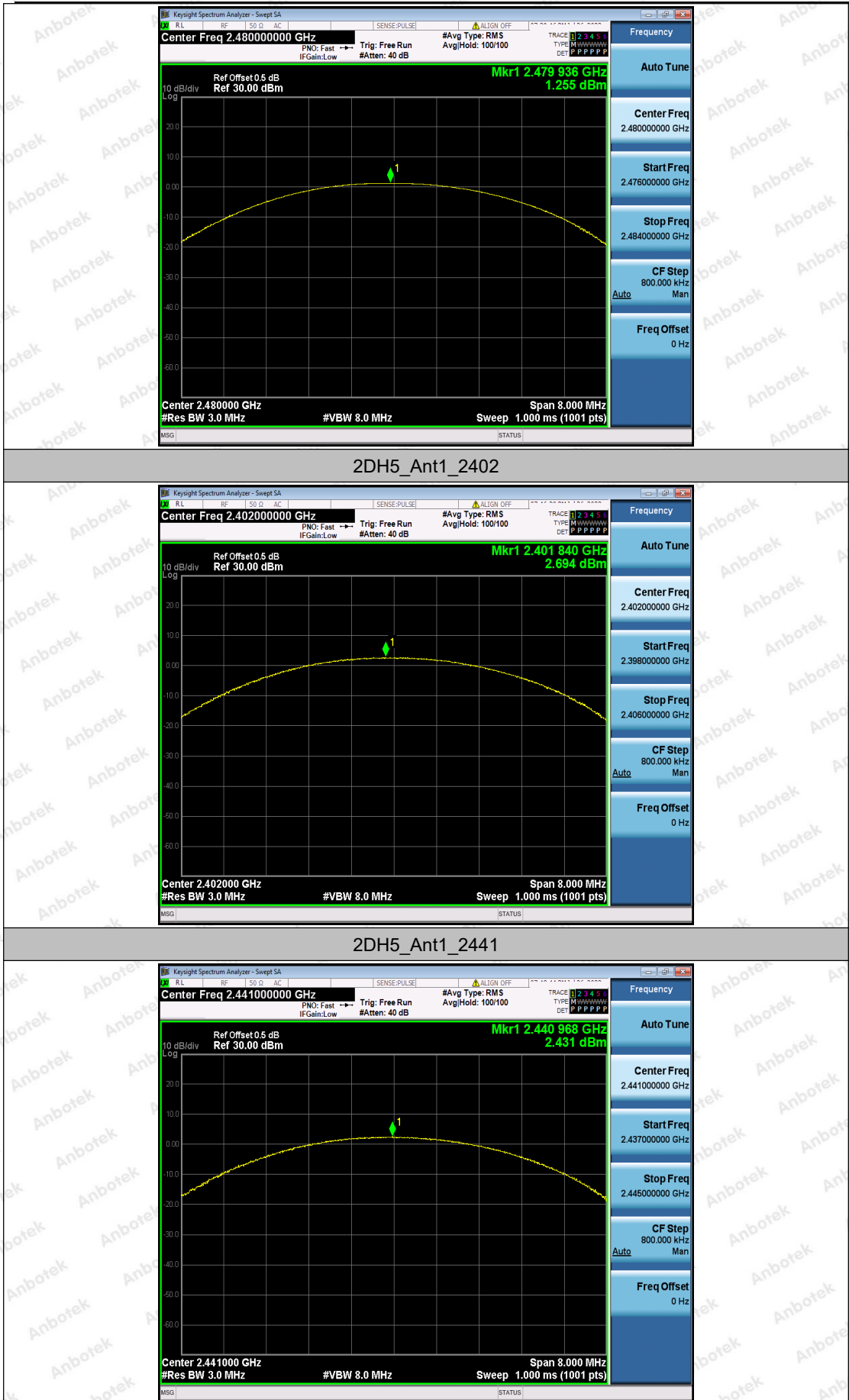


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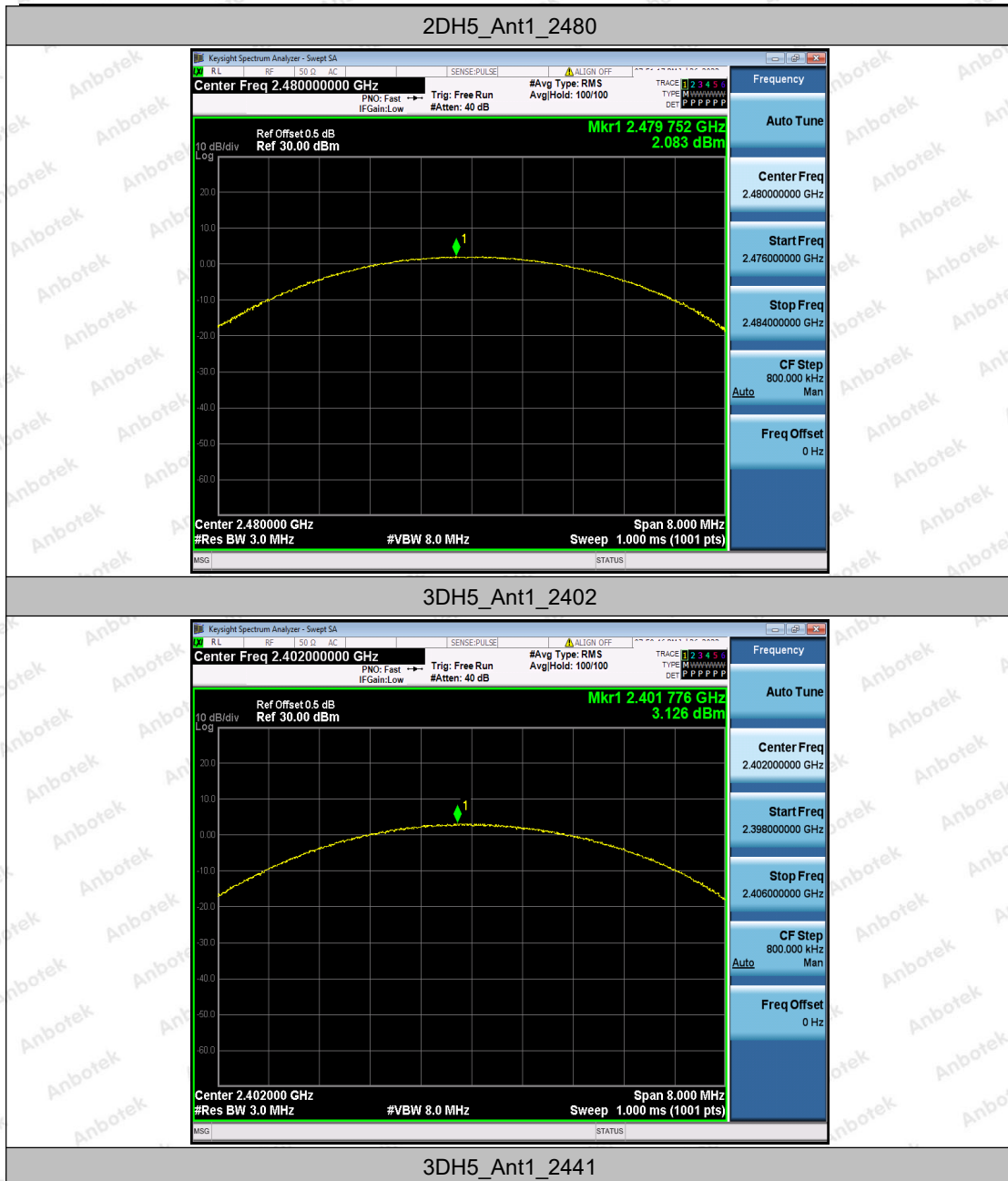


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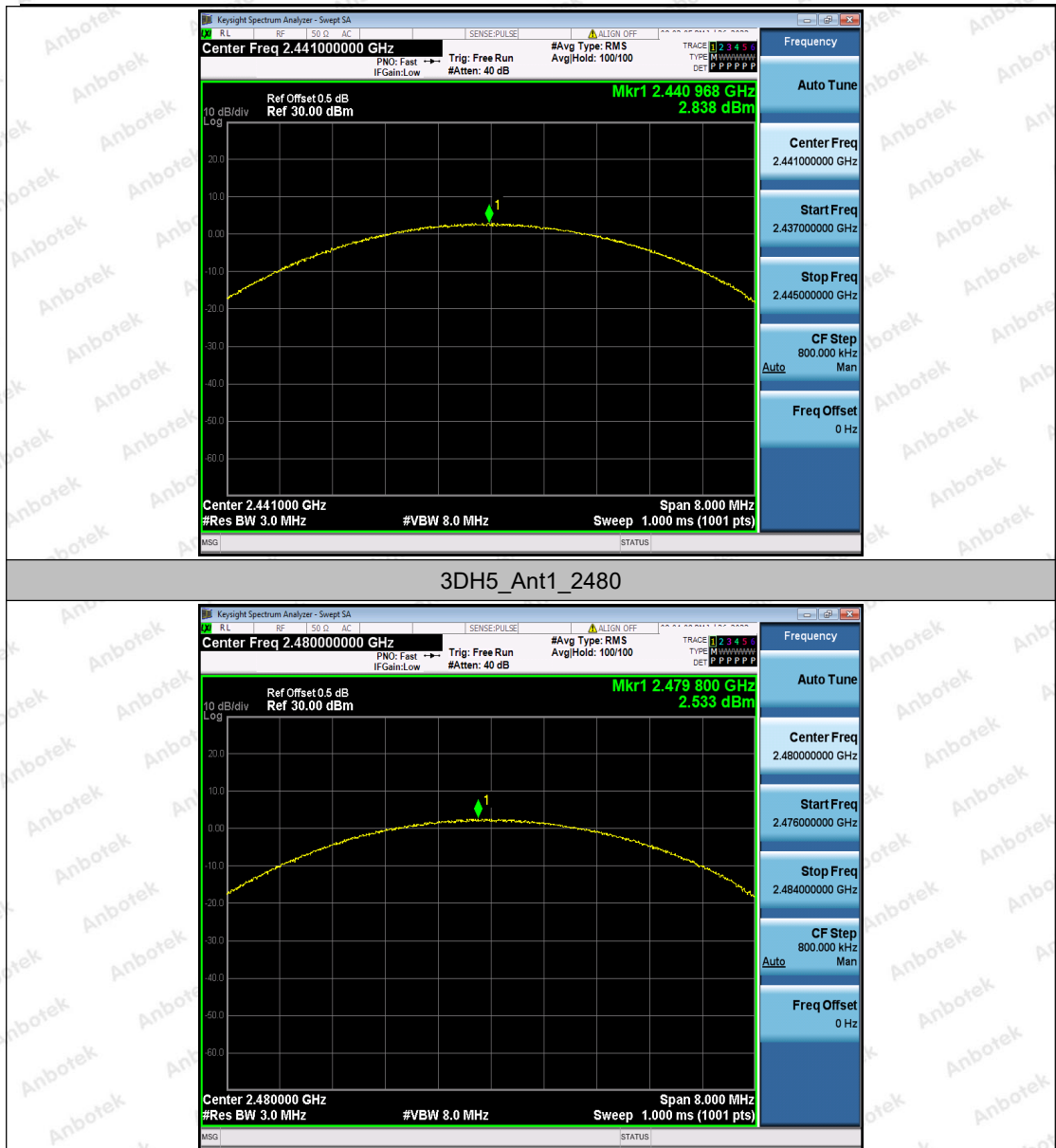


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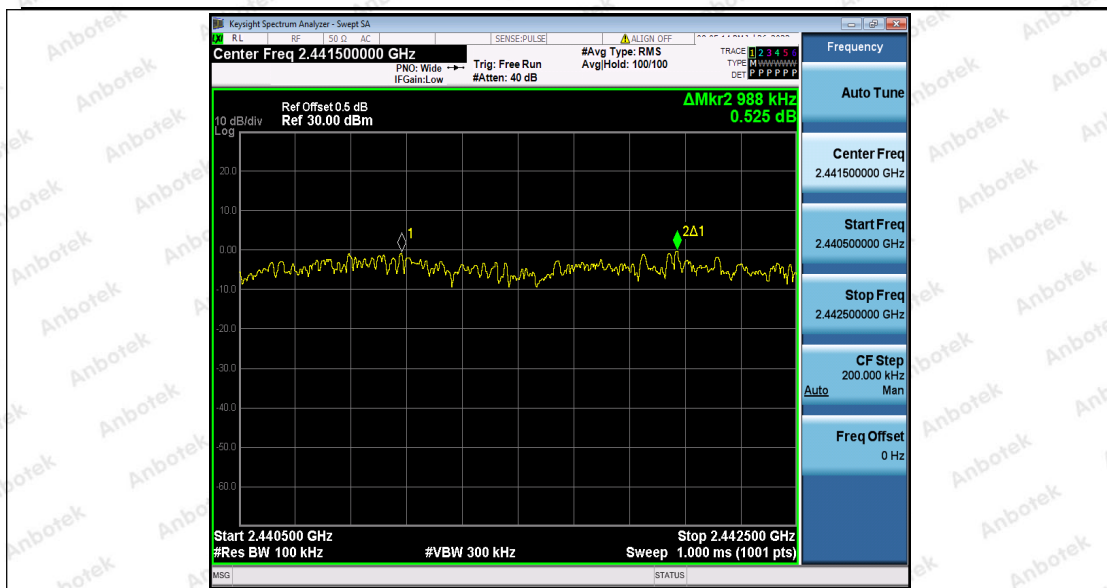
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.988	≥0.680	PASS
2DH5	Ant1	Hop	1.06	≥0.880	PASS
3DH5	Ant1	Hop	0.988	≥0.896	PASS

Test Graphs





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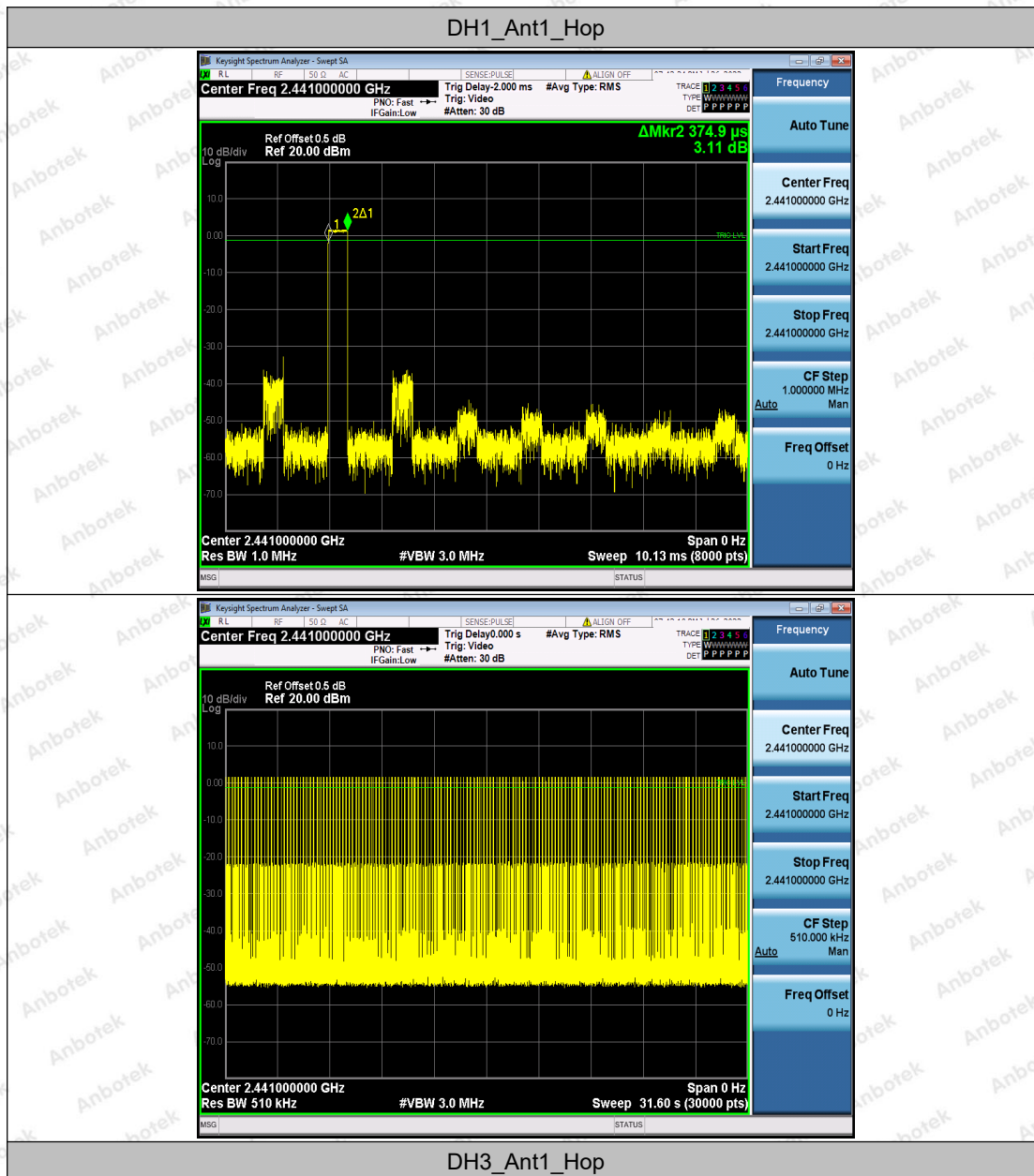
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	318	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	164	0.267	≤0.4	PASS
DH5	Ant1	Hop	2.88	122	0.351	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.64	151	0.247	≤0.4	PASS
2DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS
3DH1	Ant1	Hop	0.39	318	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.89	115	0.332	≤0.4	PASS

Test Graphs



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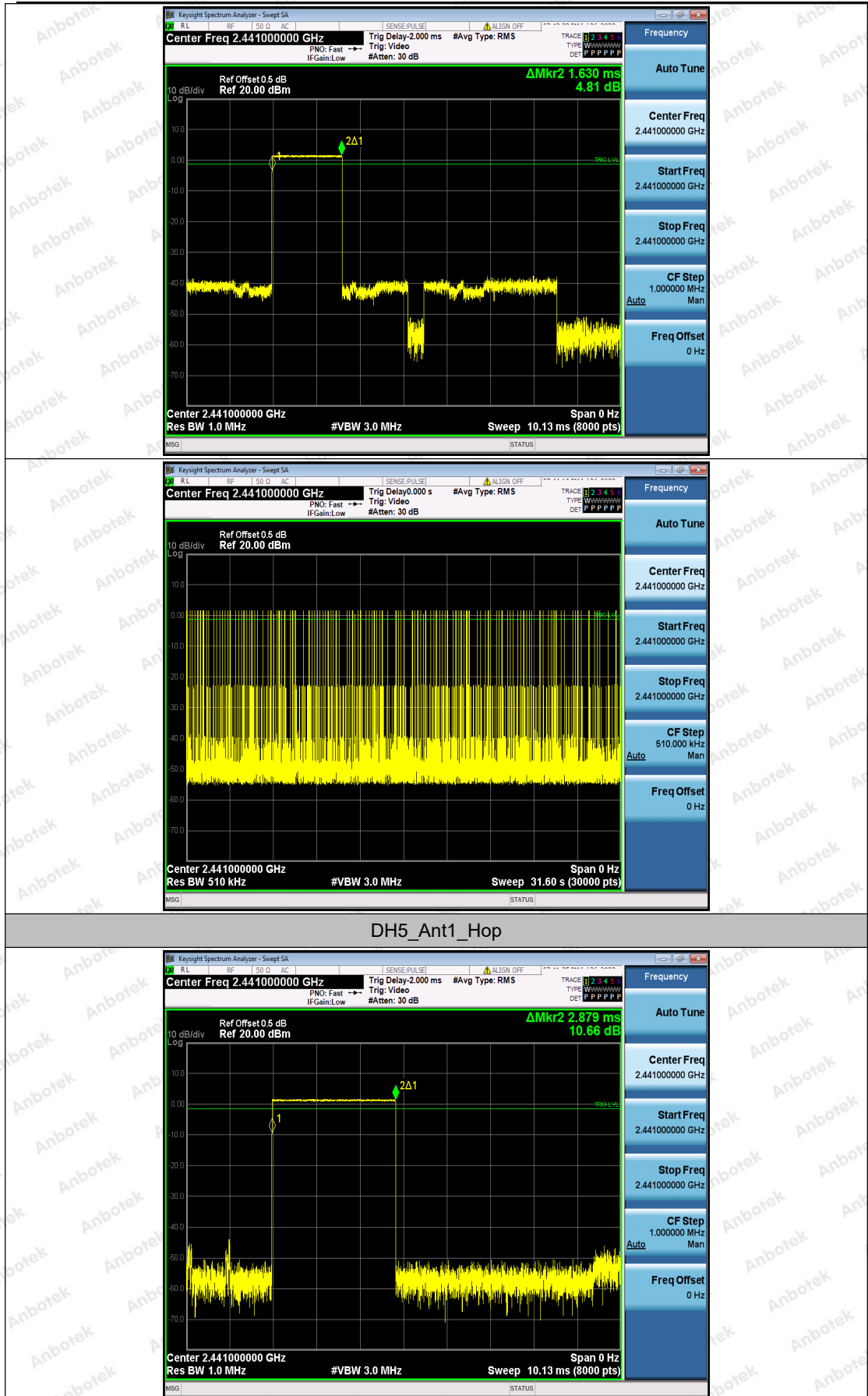
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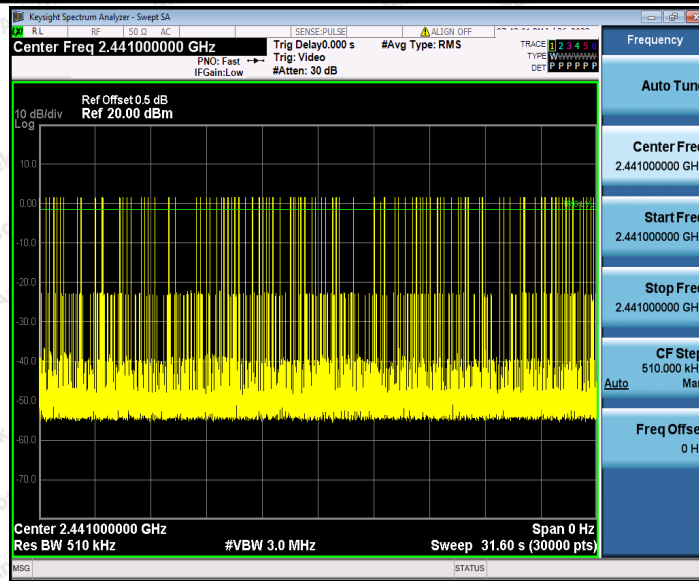


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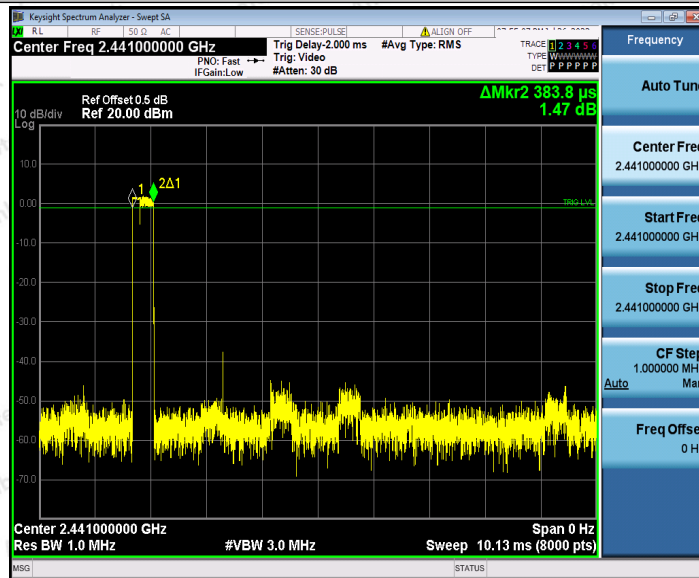
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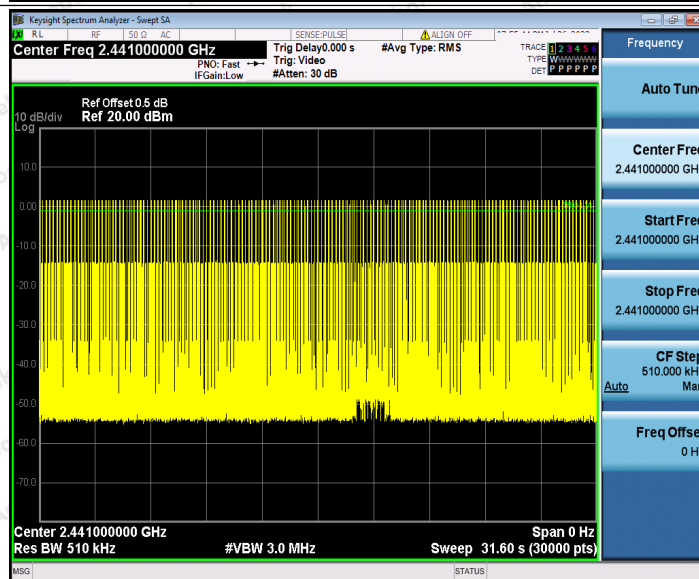
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

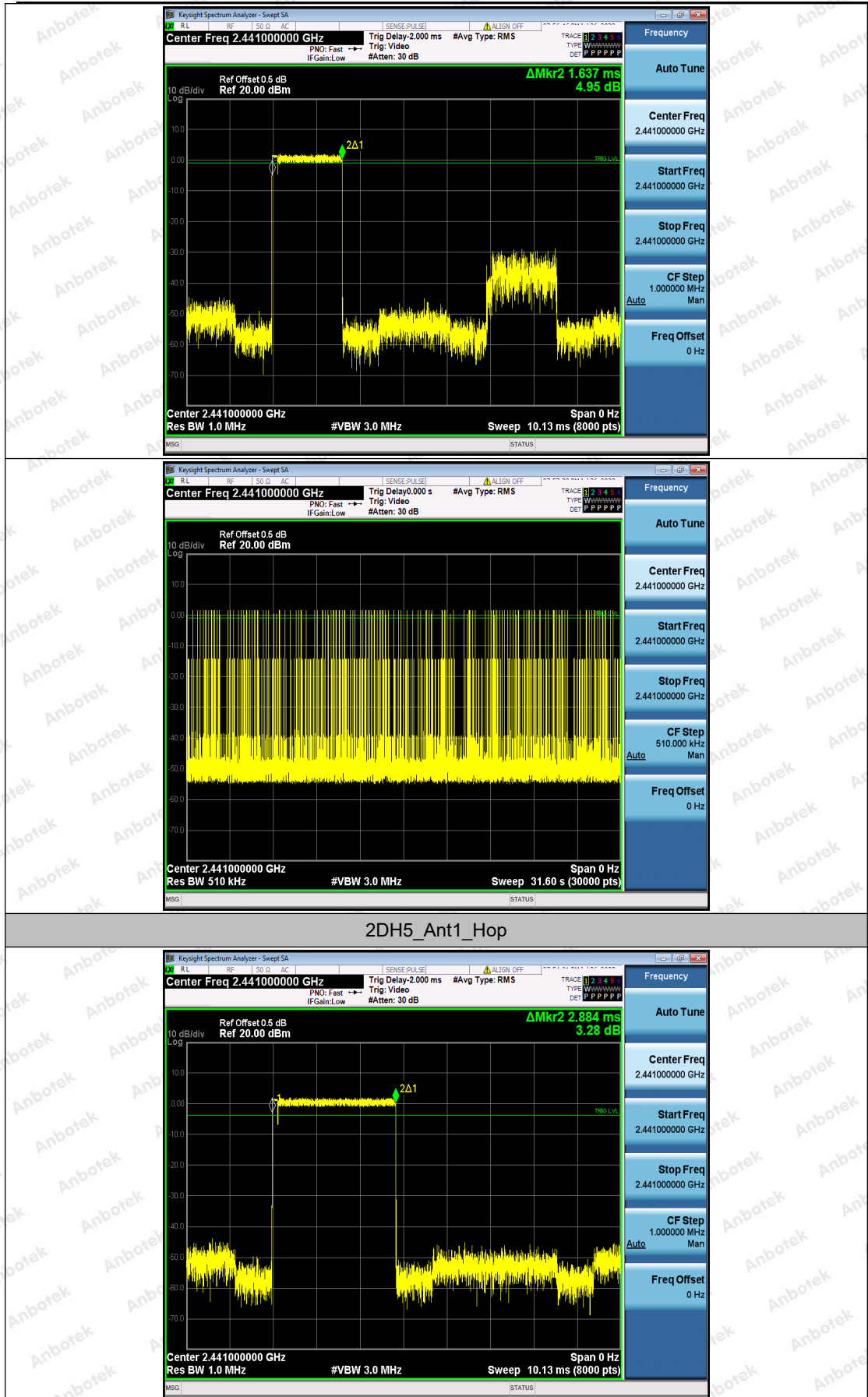


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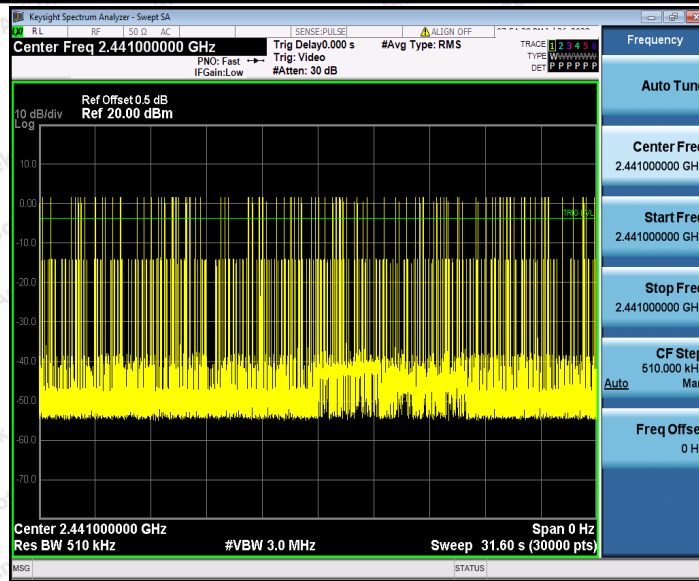


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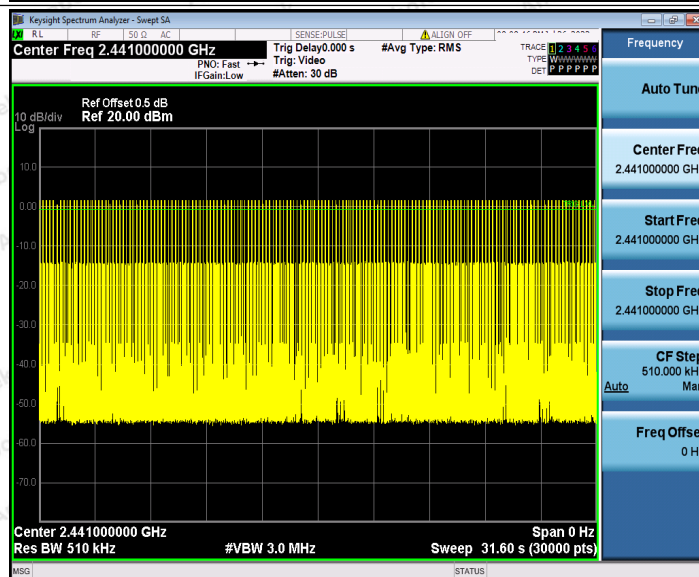
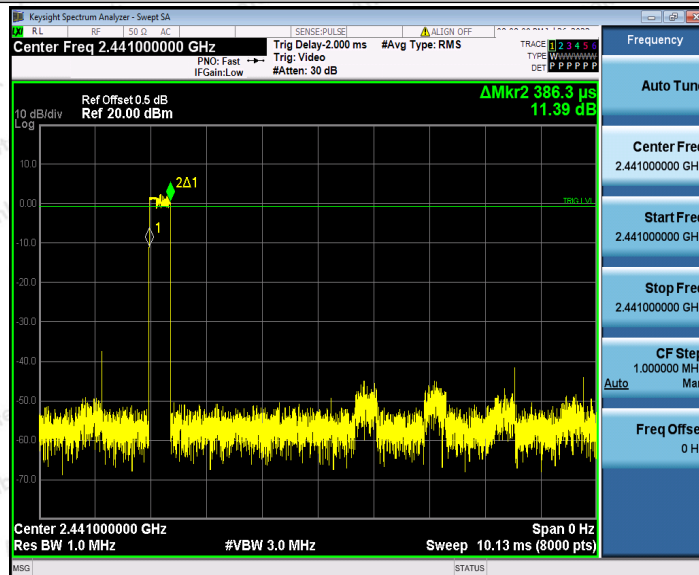
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3DH1_Ant1_Hop



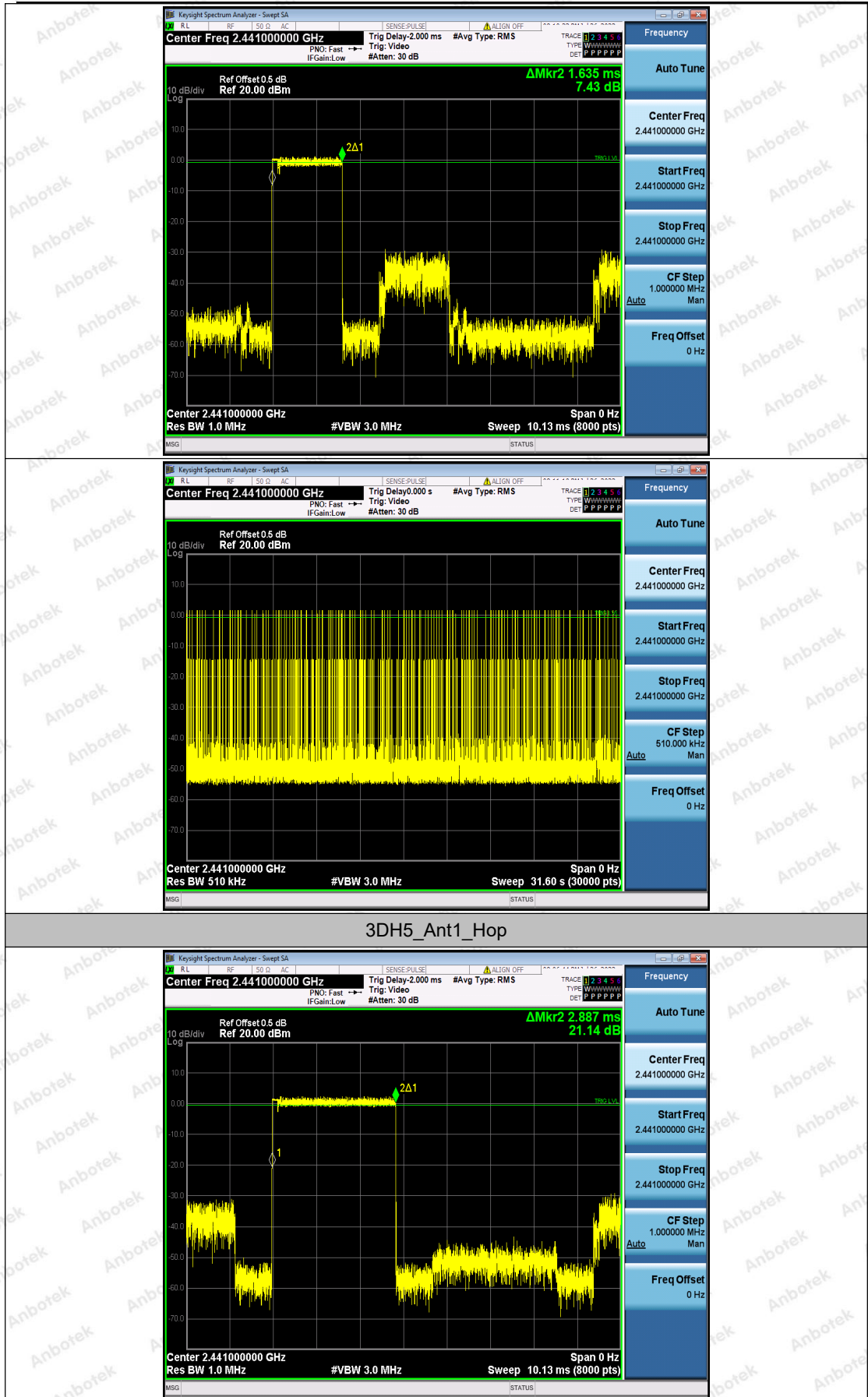
3DH3_Ant1_Hop

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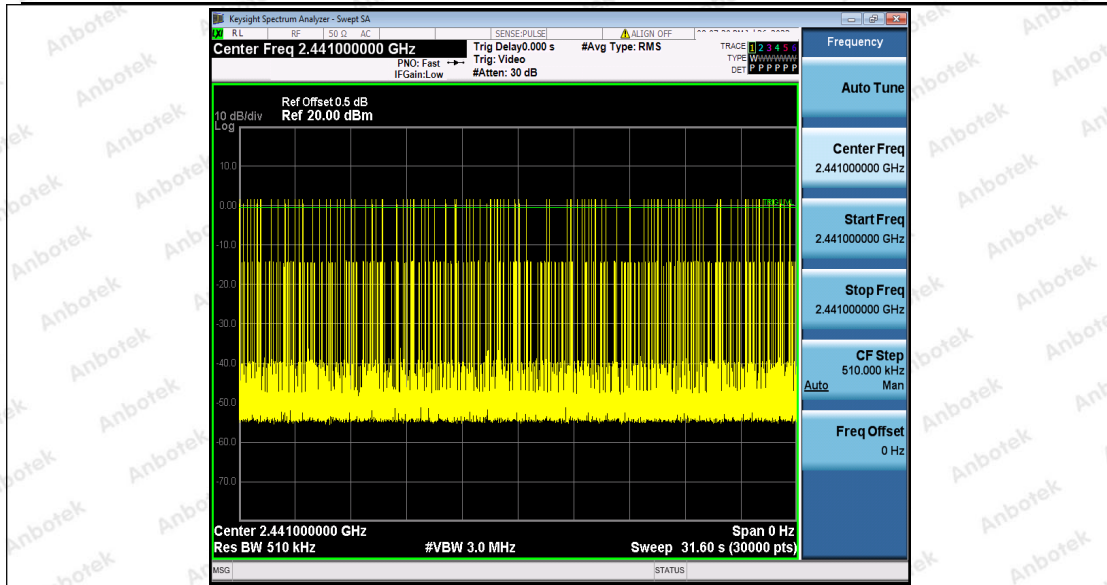
3DH5_Ant1_Hop

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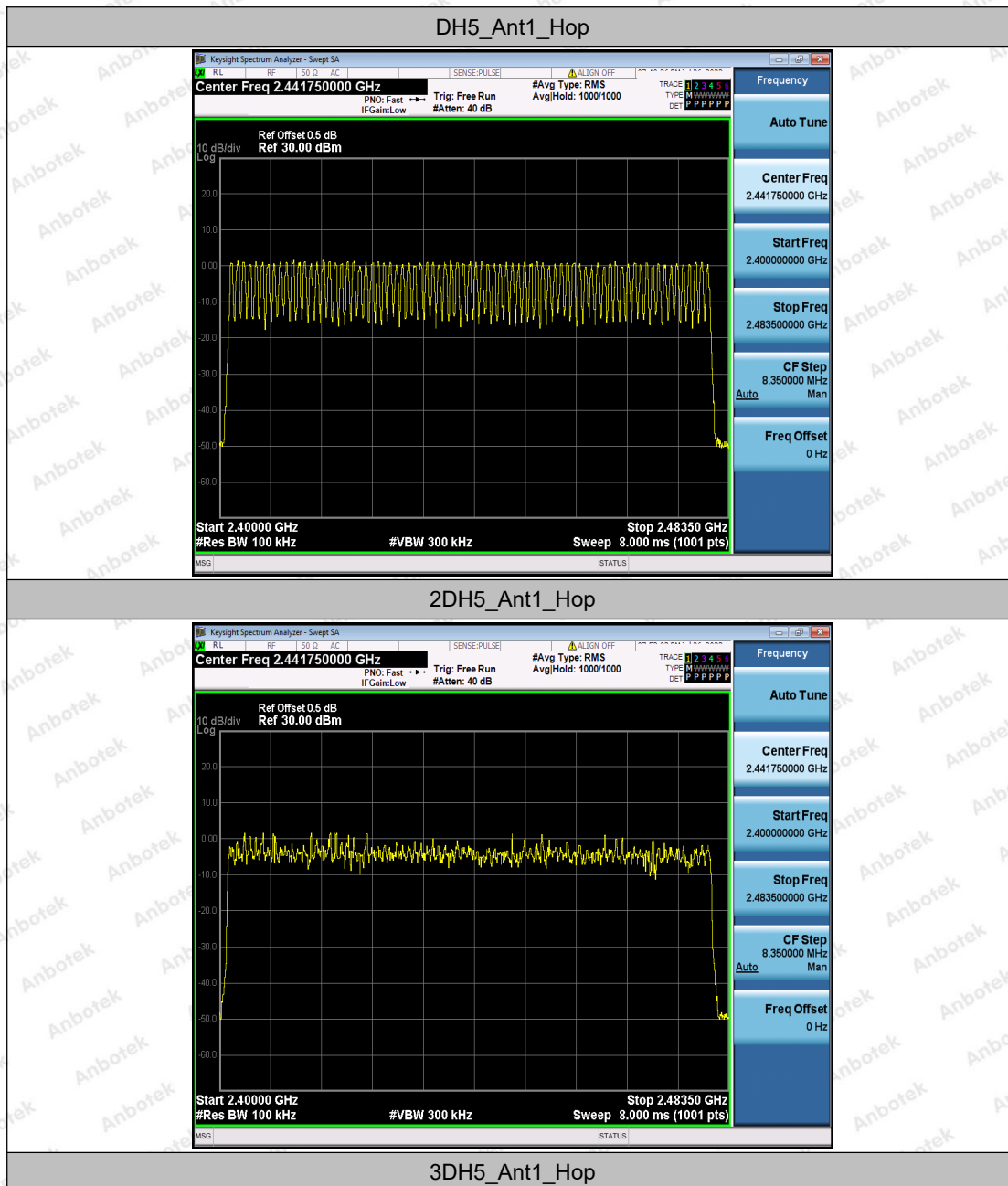
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Appendix F: Number of hopping channels

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

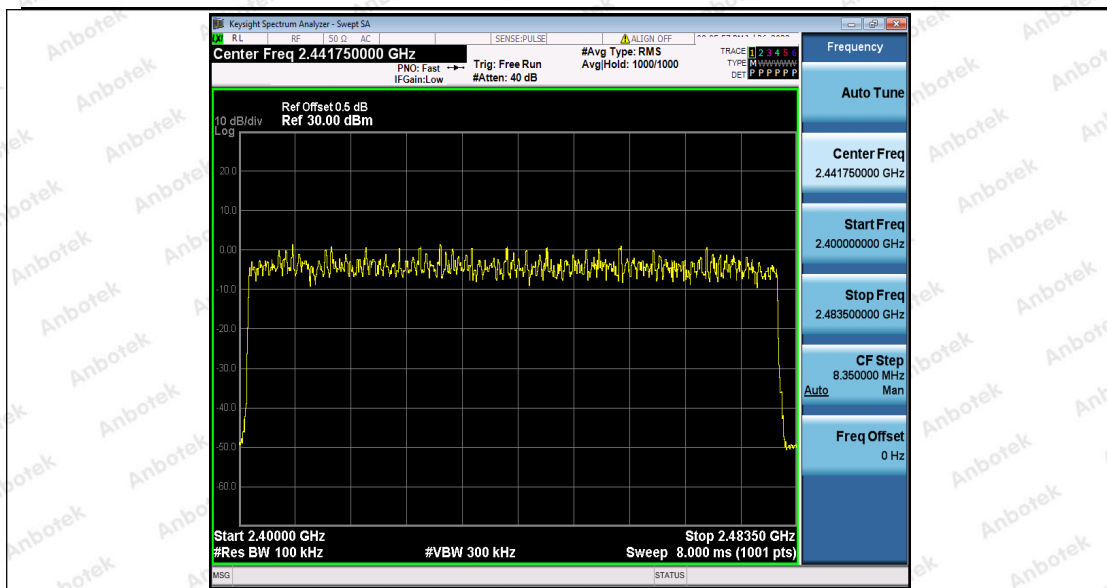


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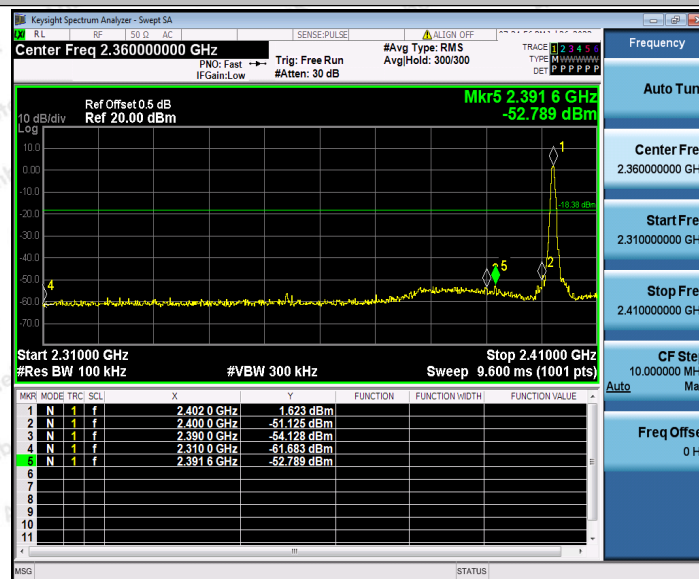
Appendix G: Band edge measurements

Test Result

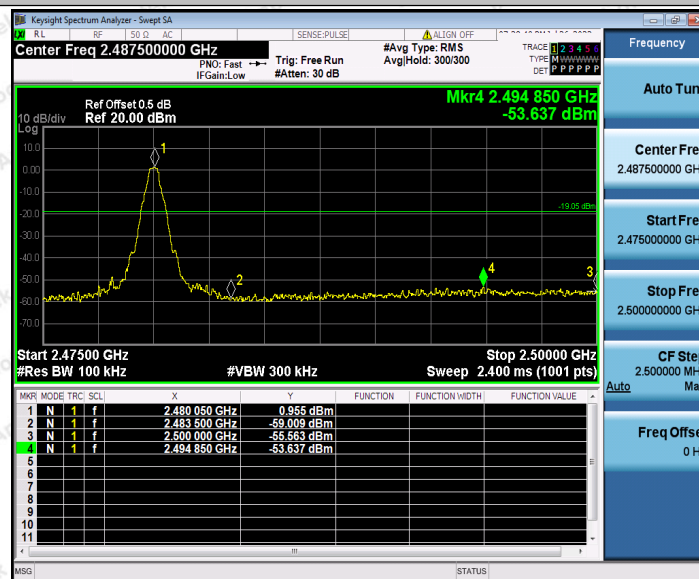
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.62	-52.79	≤-18.38	PASS
		High	2480	0.96	-53.64	≤-19.05	PASS
		Low	Hop	1.56	-49.94	≤-18.44	PASS
		High	Hop	0.71	-55.96	≤-19.29	PASS
2DH5	Ant1	Low	2402	1.52	-51.17	≤-18.49	PASS
		High	2480	0.26	-52.58	≤-19.74	PASS
		Low	Hop	1.35	-49.94	≤-18.65	PASS
		High	Hop	1.03	-59.03	≤-18.97	PASS
3DH5	Ant1	Low	2402	1.64	-52.77	≤-18.36	PASS
		High	2480	0.79	-53.19	≤-19.21	PASS
		Low	Hop	1.53	-52.6	≤-18.47	PASS
		High	Hop	-1.13	-56.42	≤-21.13	PASS

Test Graphs

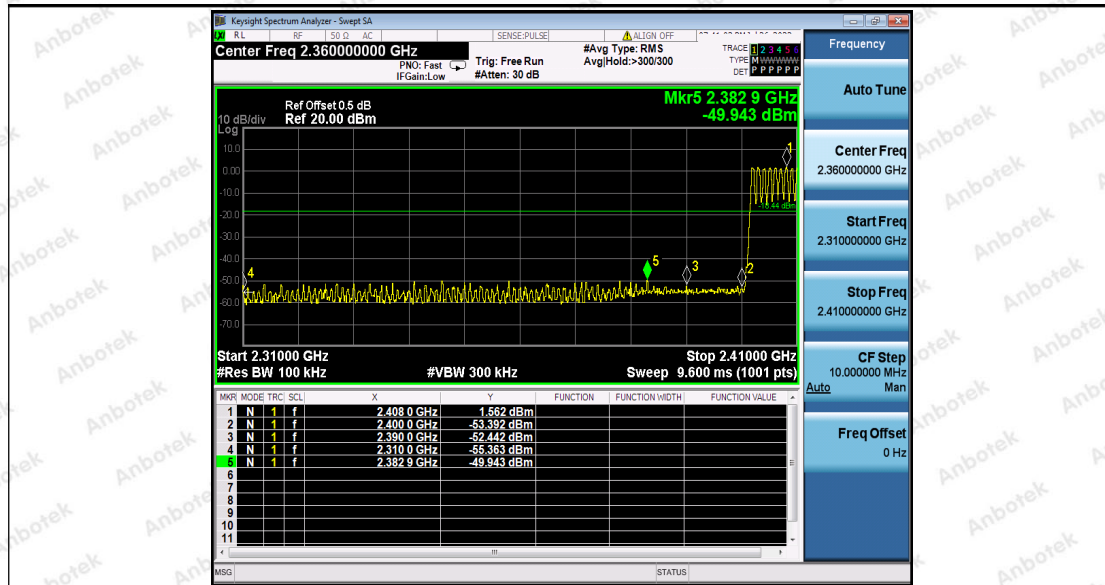
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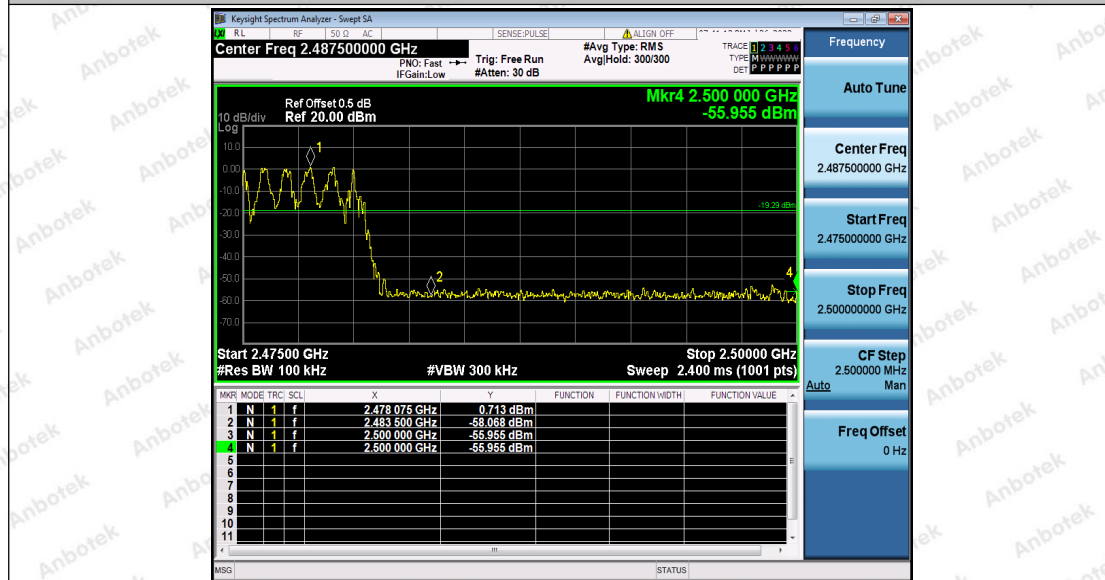
DH5_Ant1_High_2480



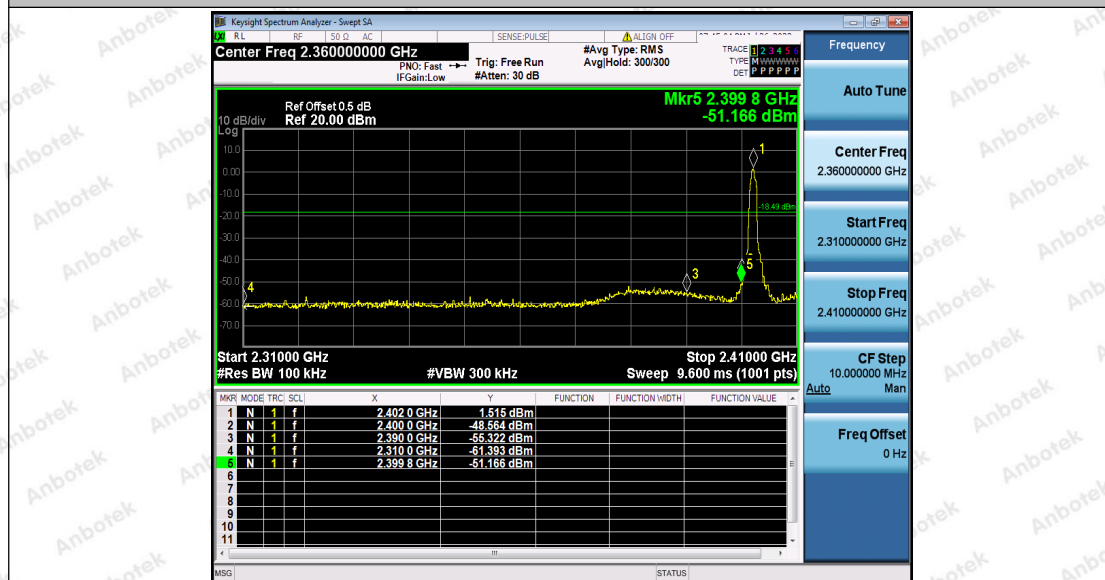
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



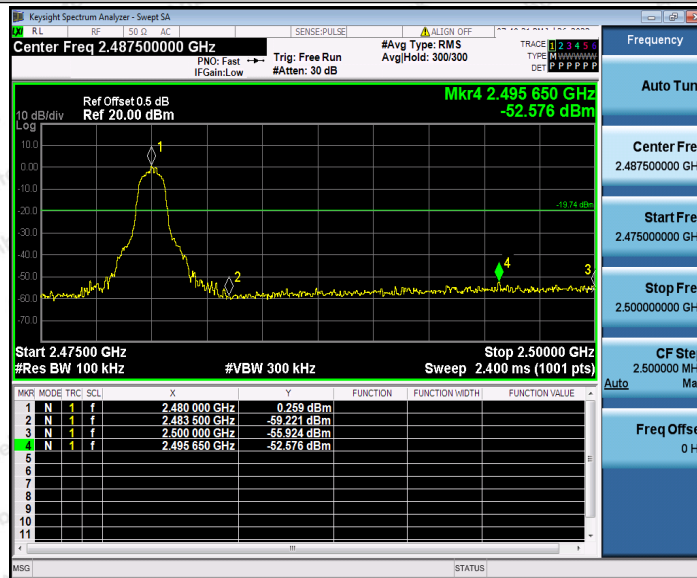
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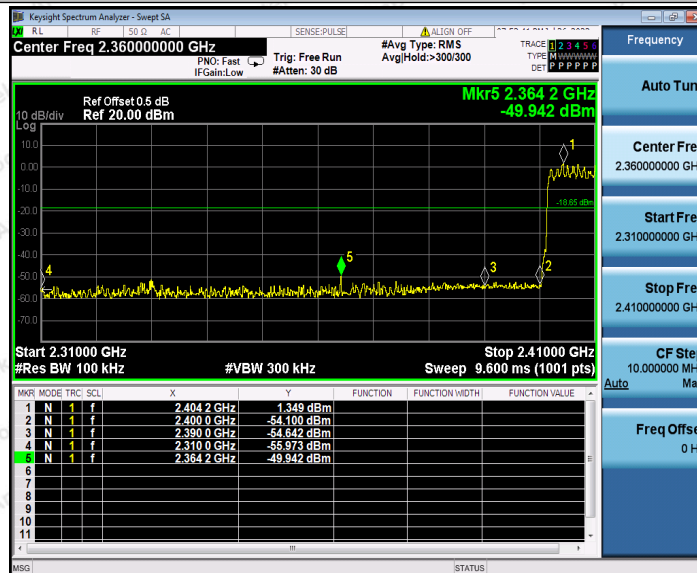
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



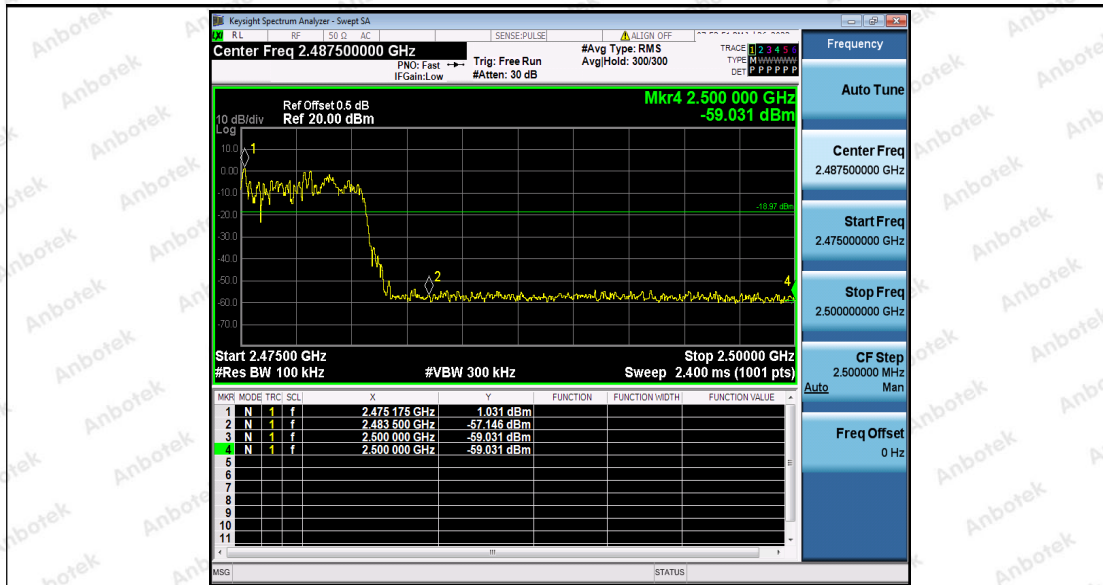
2DH5_Ant1_High_Hop

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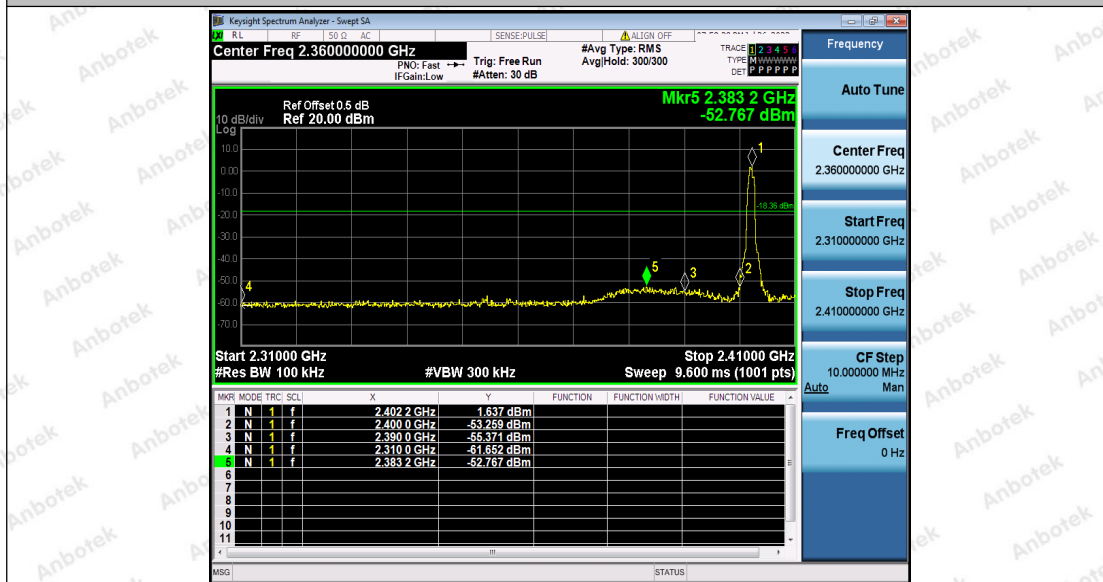
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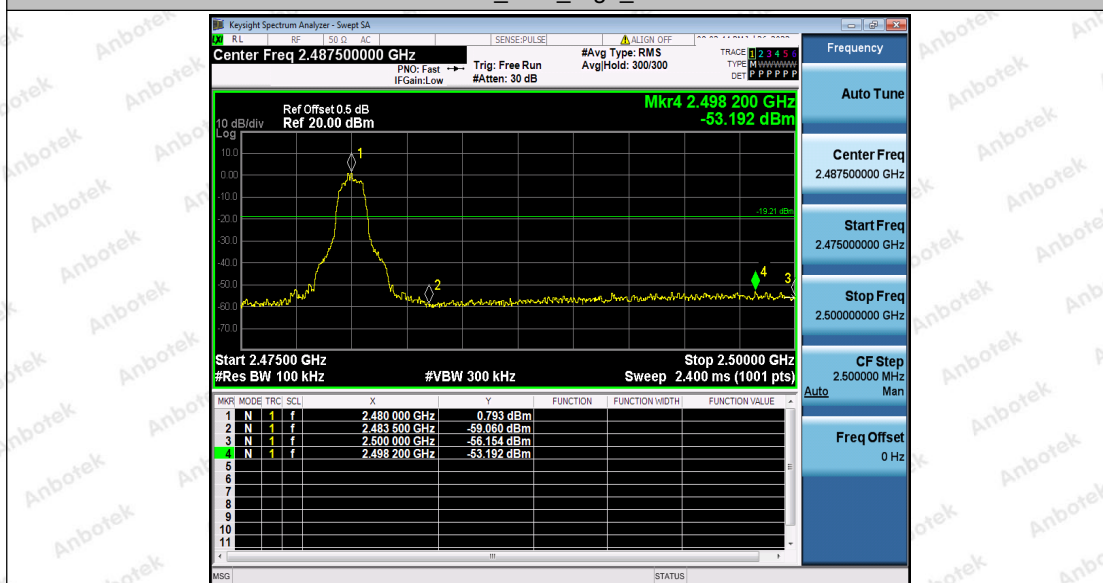
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

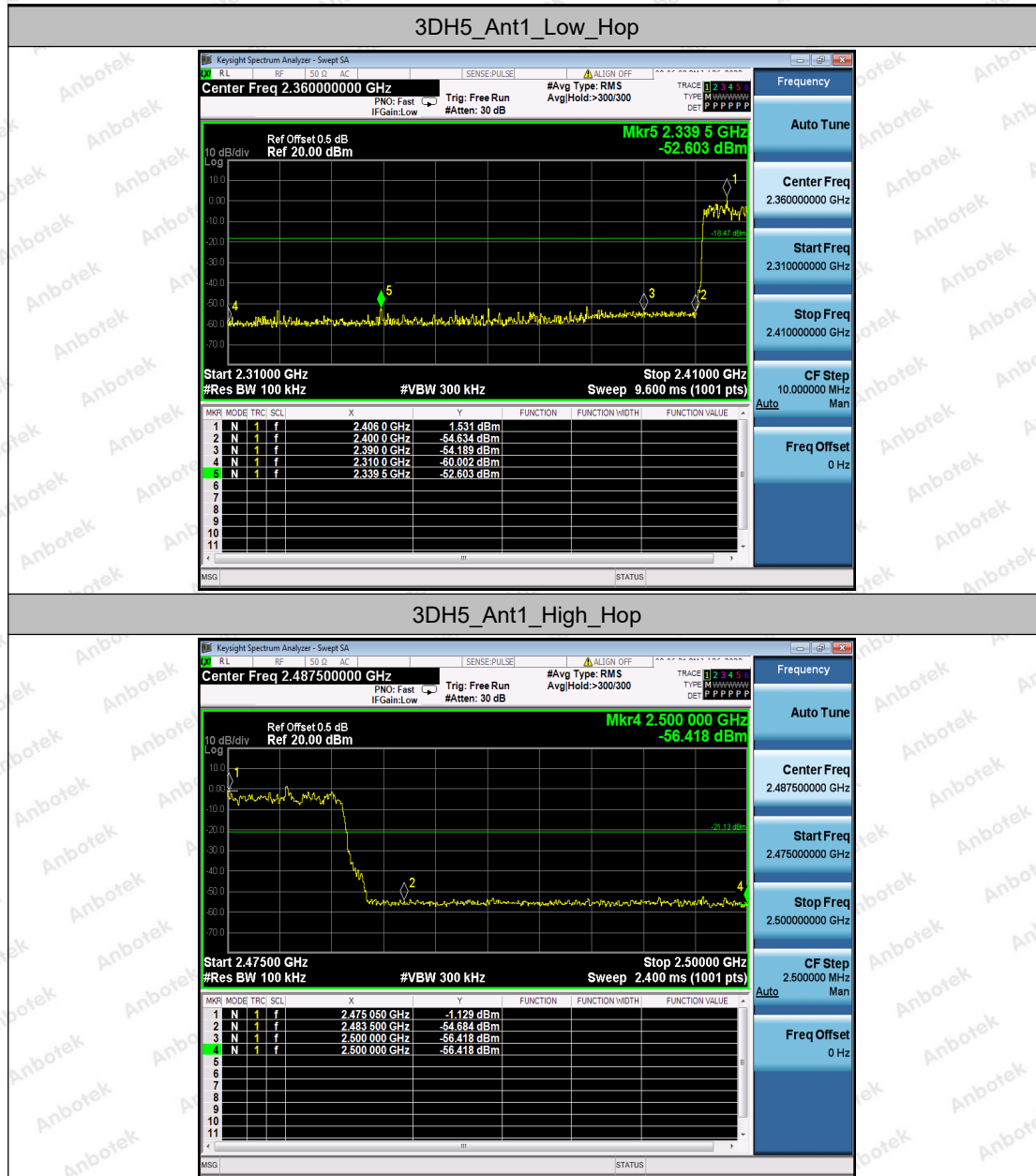


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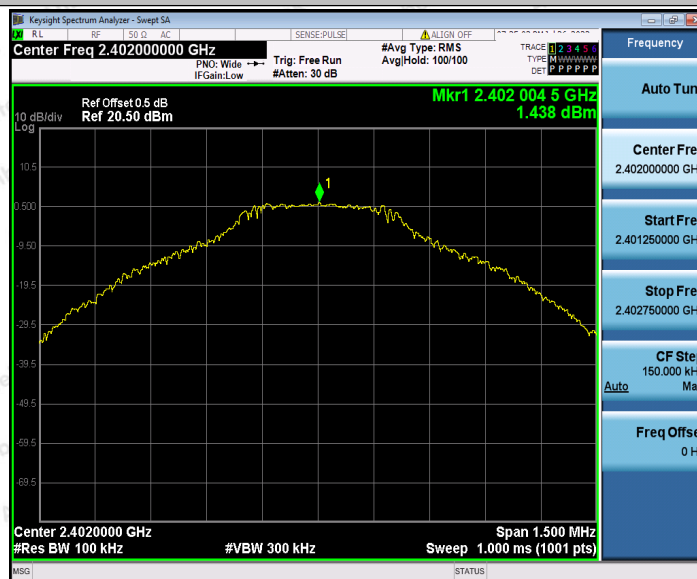
Appendix H: Conducted Spurious Emission

Test Result

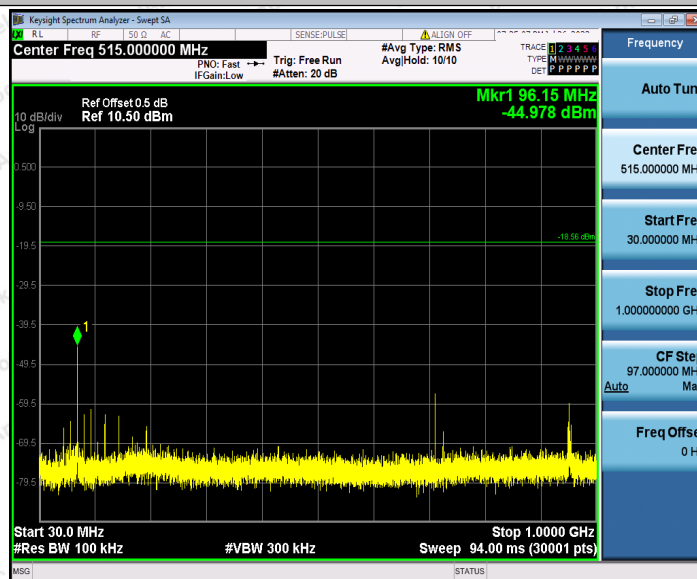
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-44.98	≤-18.56	PASS
			1000~26500	1.44	-41.68	≤-18.56	PASS
		2441	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-44.66	≤-18.79	PASS
			1000~26500	1.21	-44.47	≤-18.79	PASS
		2480	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-44.7	≤-19.15	PASS
			1000~26500	0.86	-44.51	≤-19.15	PASS
2DH5	Ant1	2402	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-45.17	≤-18.65	PASS
			1000~26500	1.35	-44.07	≤-18.65	PASS
		2441	Reference	1.00	1.00	---	PASS
			30~1000	1.00	-45.29	≤-19	PASS
			1000~26500	1.00	-46.39	≤-19	PASS
		2480	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-46.07	≤-19.19	PASS
			1000~26500	0.81	-47.3	≤-19.19	PASS
3DH5	Ant1	2402	Reference	1.11	1.11	---	PASS
			30~1000	1.11	-45.9	≤-18.89	PASS
			1000~26500	1.11	-45.02	≤-18.89	PASS
		2441	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-46.41	≤-19.74	PASS
			1000~26500	0.26	-46.81	≤-19.74	PASS
		2480	Reference	0.78	0.78	---	PASS
			30~1000	0.78	-45.9	≤-19.22	PASS
			1000~26500	0.78	-47.8	≤-19.22	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



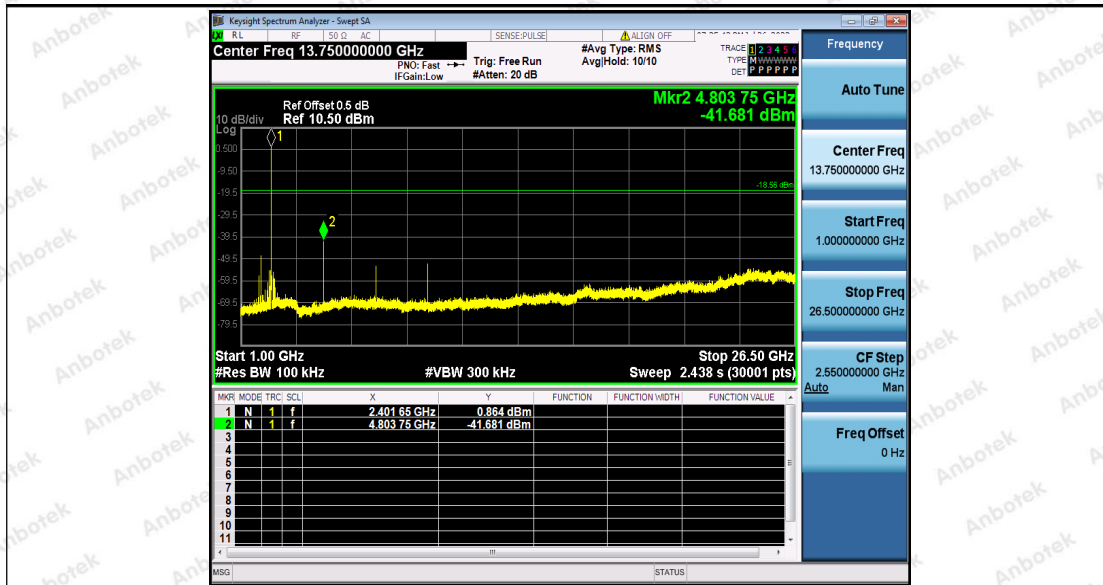
DH5_Ant1_2402_1000~26500

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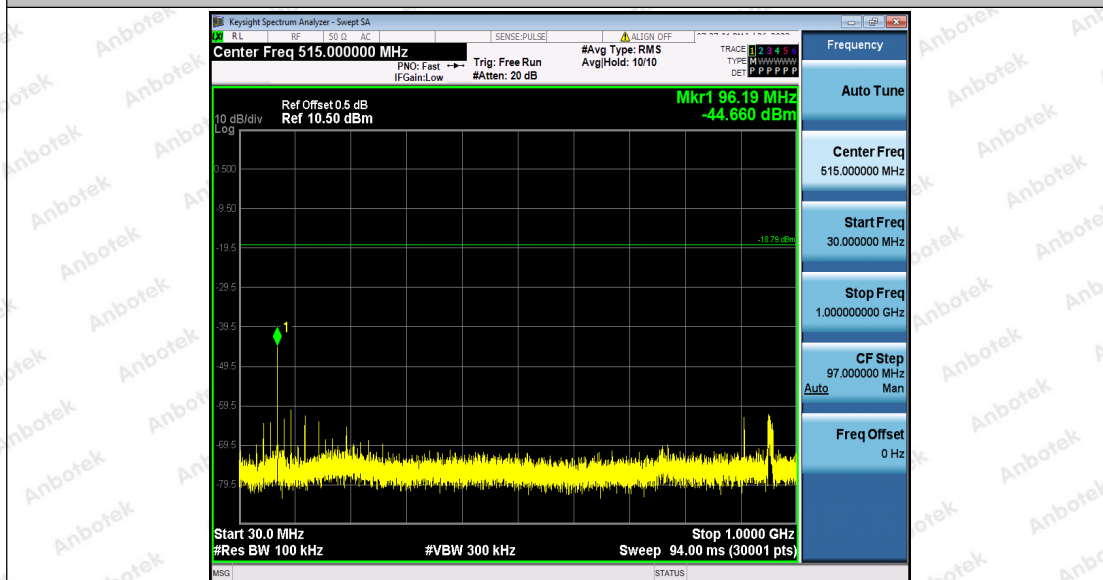
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



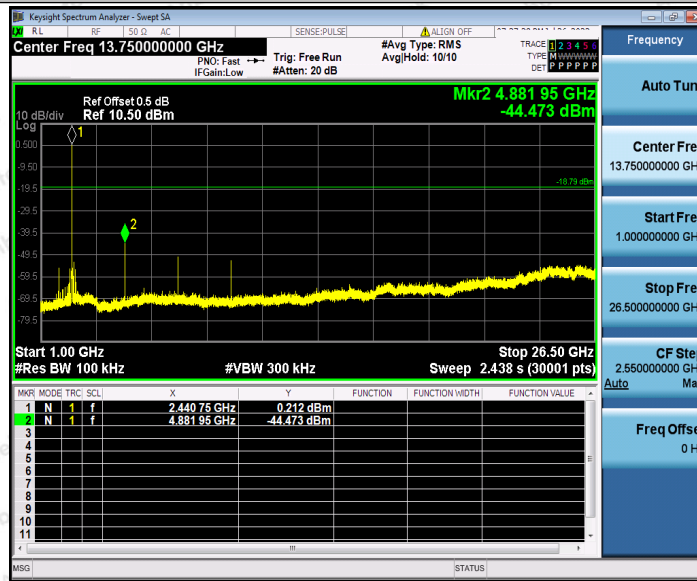
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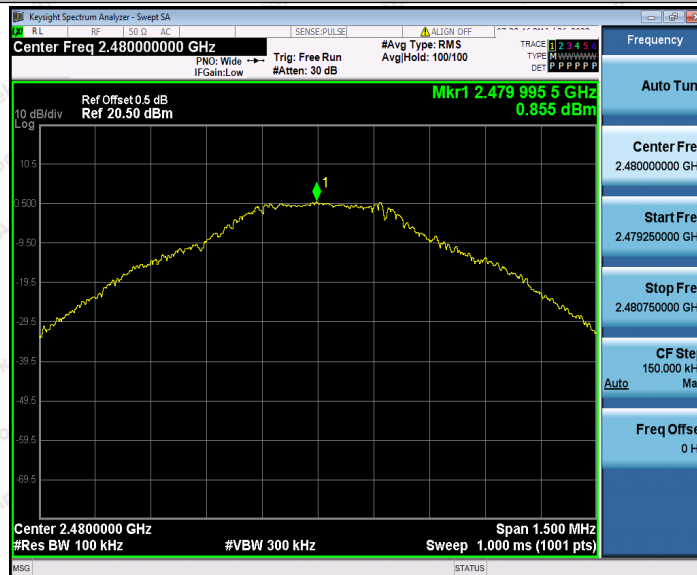
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



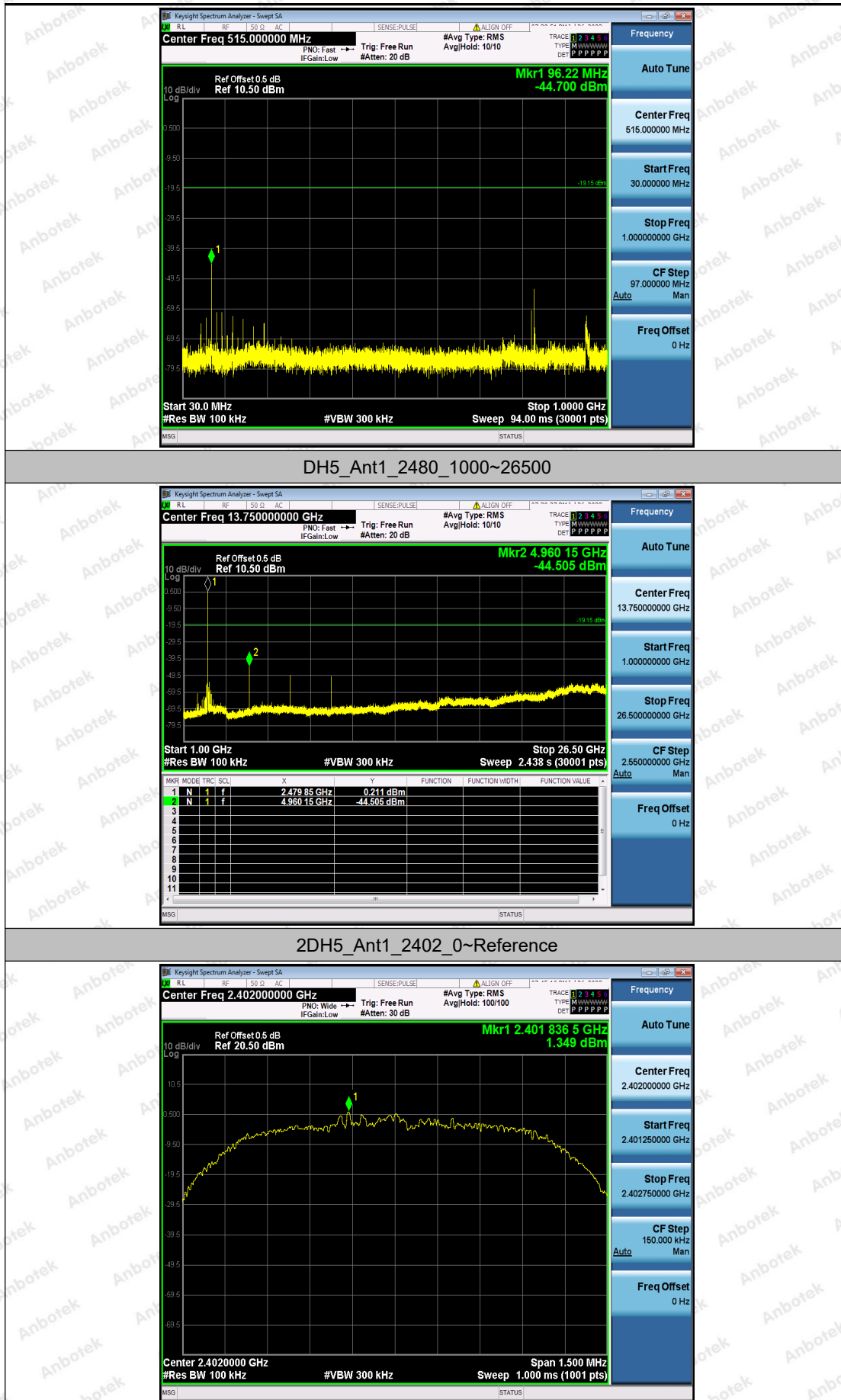
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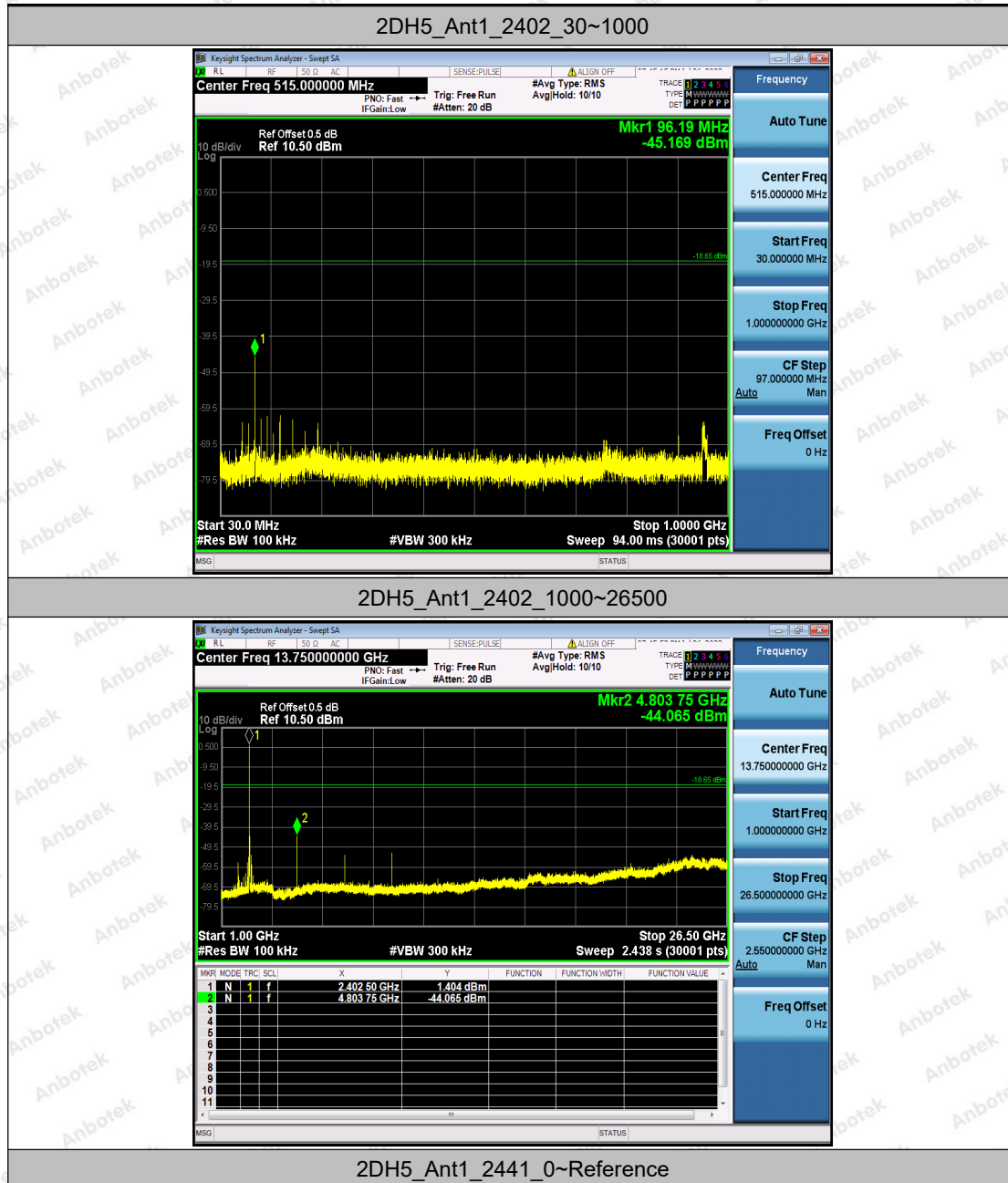


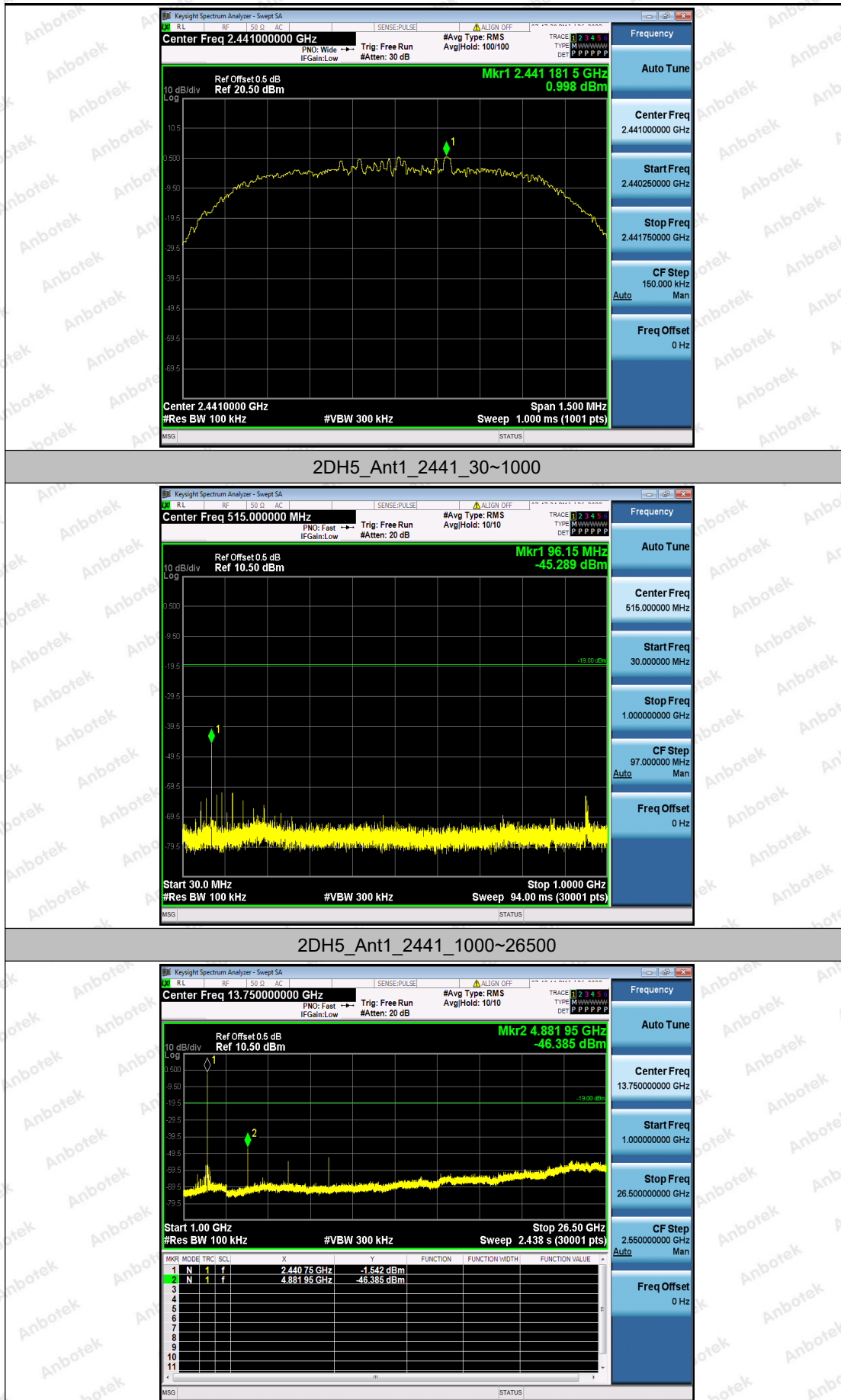
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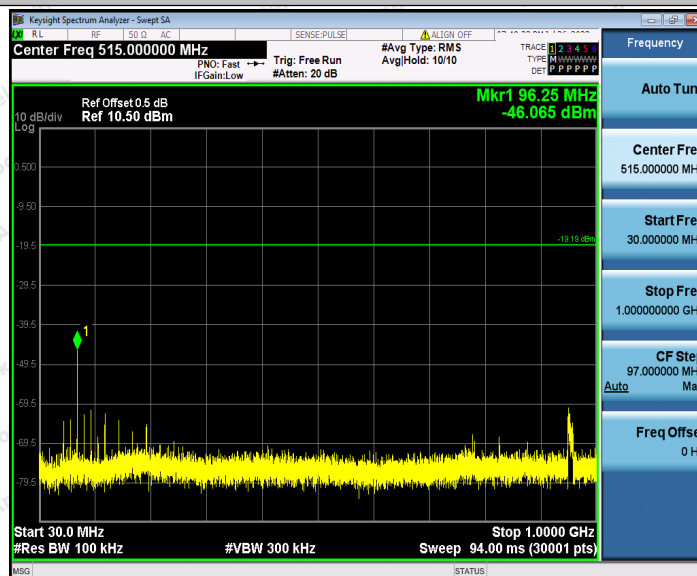
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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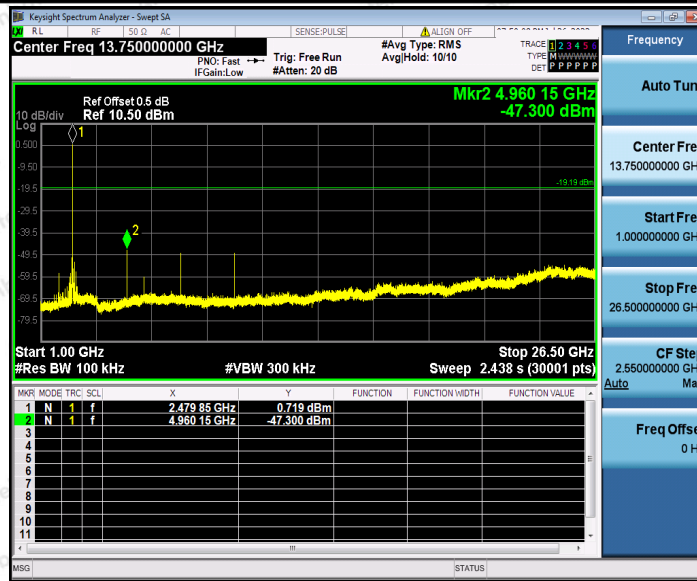
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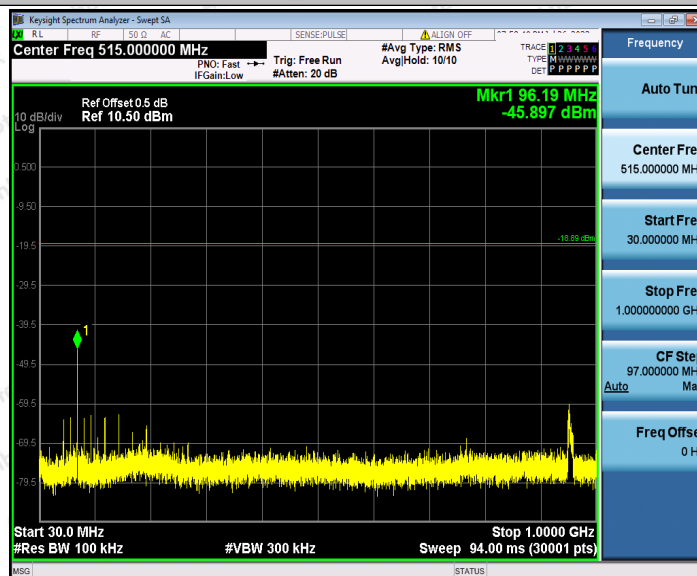
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



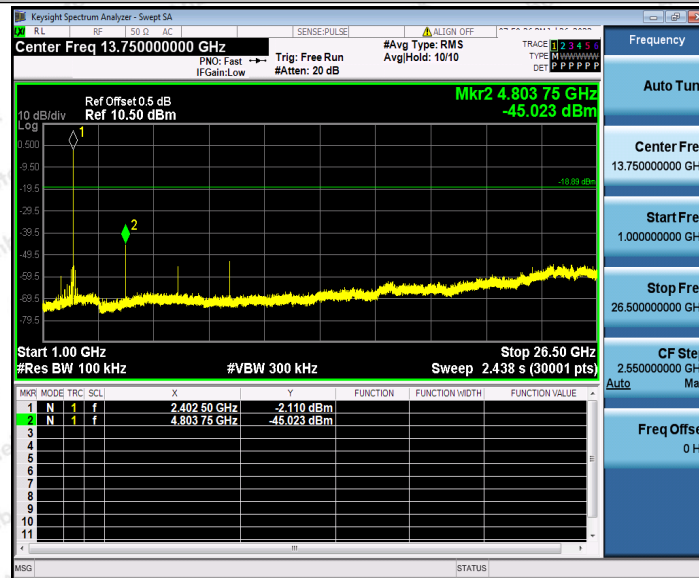
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



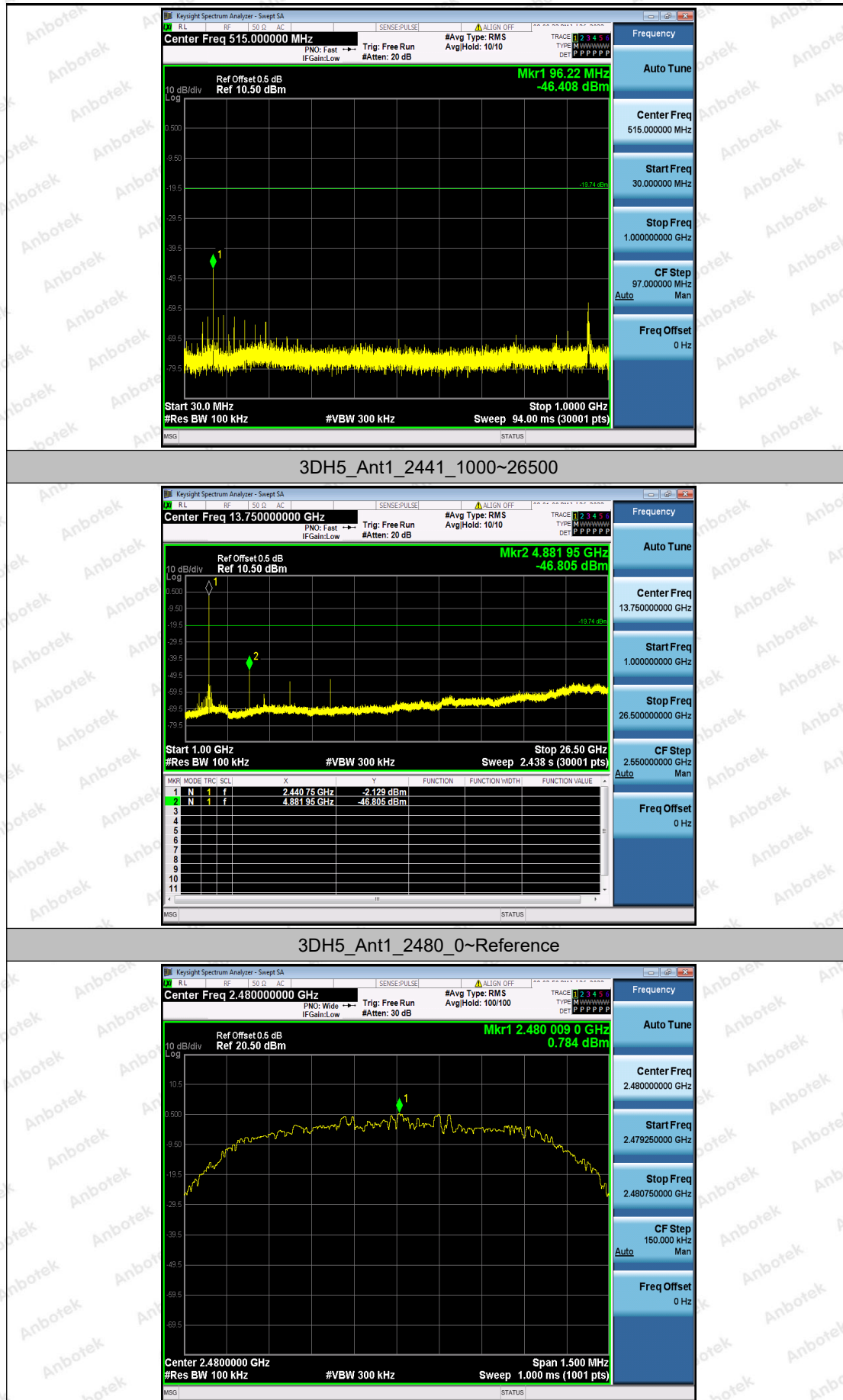
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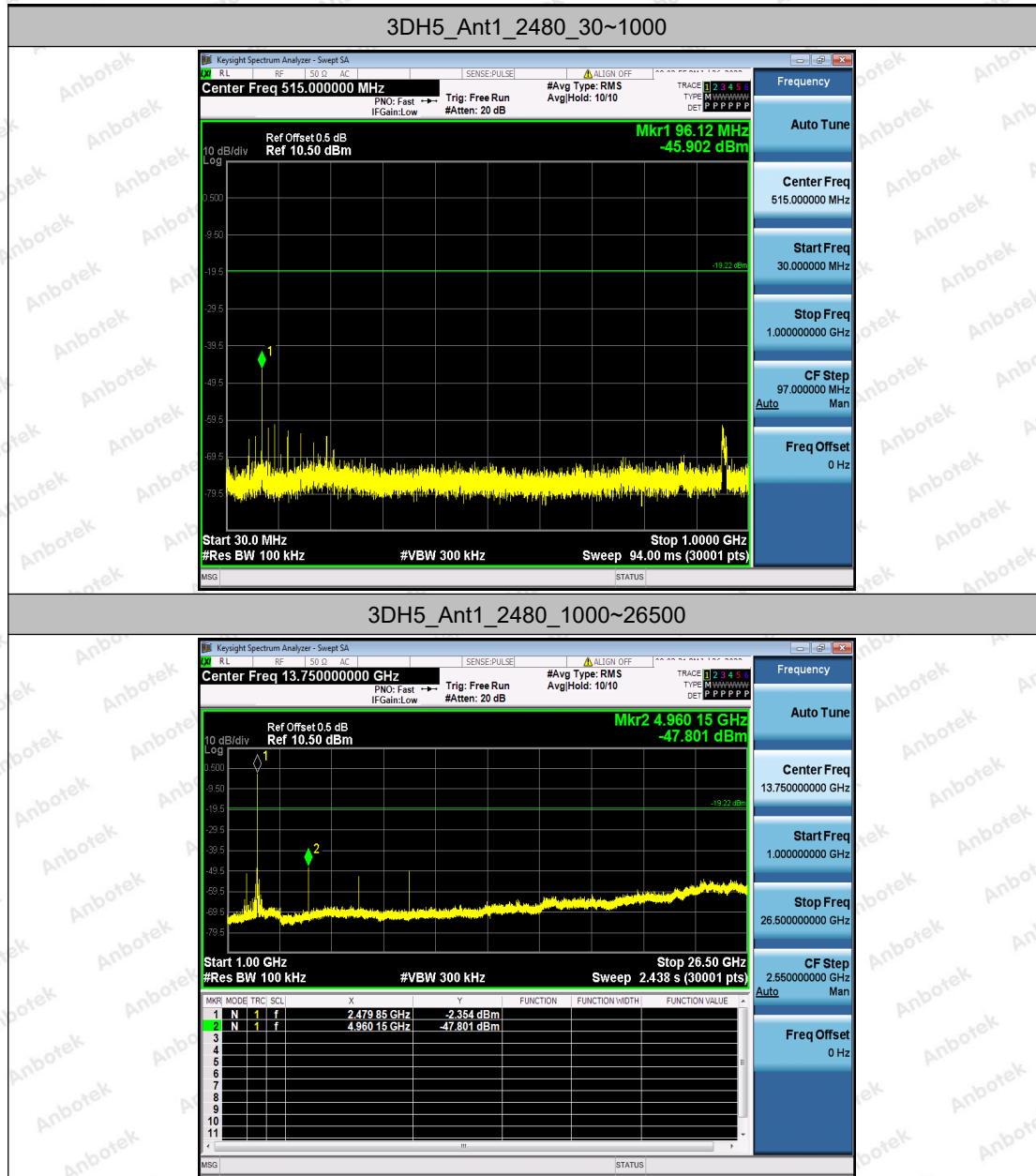
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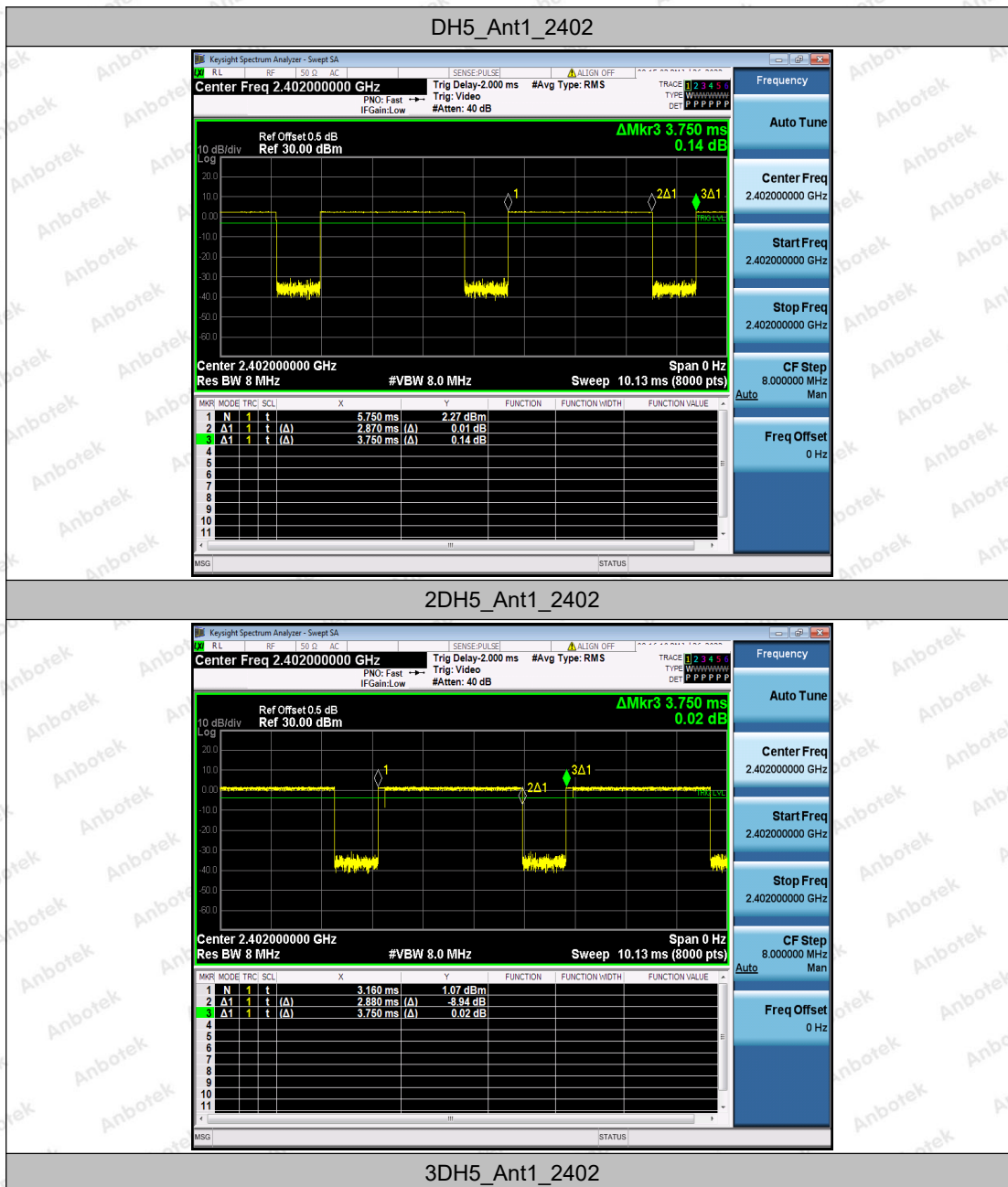
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Appendix I: Duty Cycle

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



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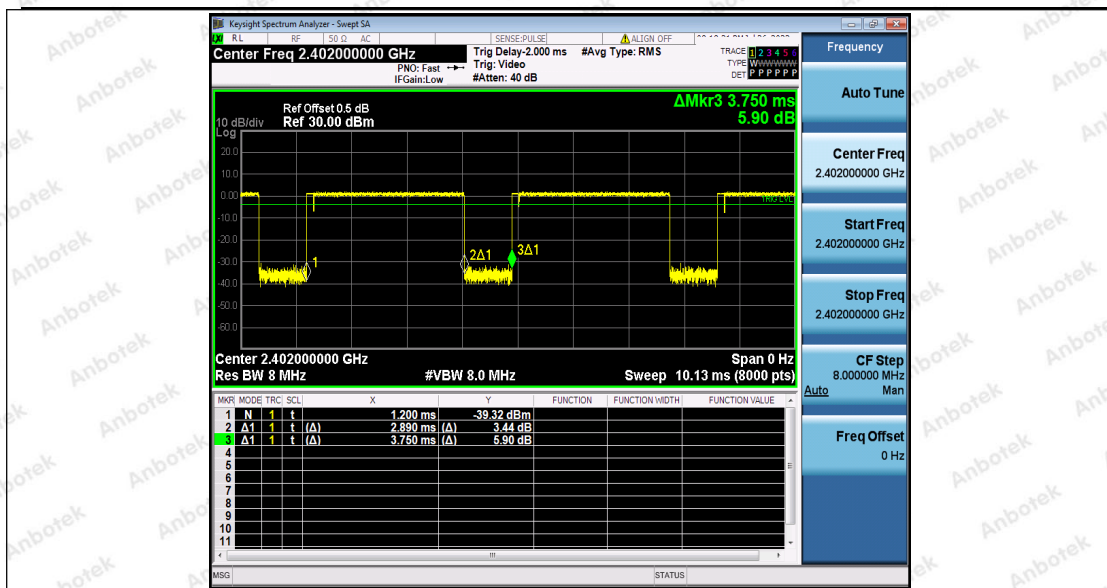
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