

Appendix Test Data

Report No.:	18220WC30191001	Test Sample No.:	1-2-2
Start Test Date:	2023.09.05	Finish Test Date:	2023.09.05
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	102 kPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	1.038	2401.460	2402.498
		2441	1.035	2440.469	2441.504
		2480	0.975	2479.526	2480.501
2DH5	Ant1	2402	1.320	2401.340	2402.660
		2441	1.368	2440.319	2441.687
		2480	1.332	2479.331	2480.663



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441



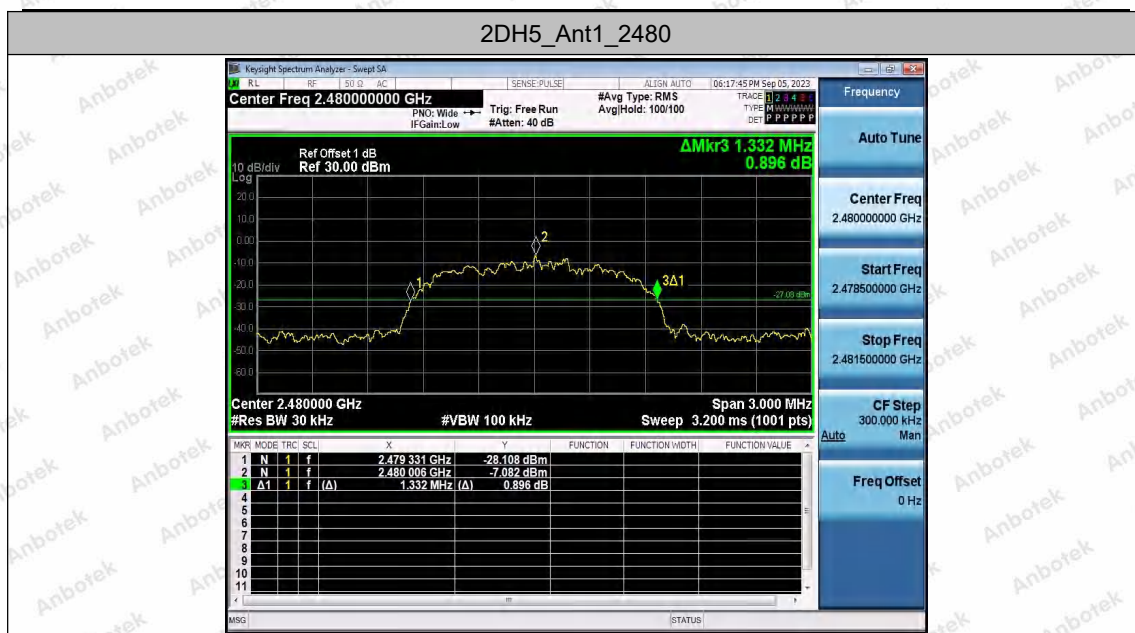
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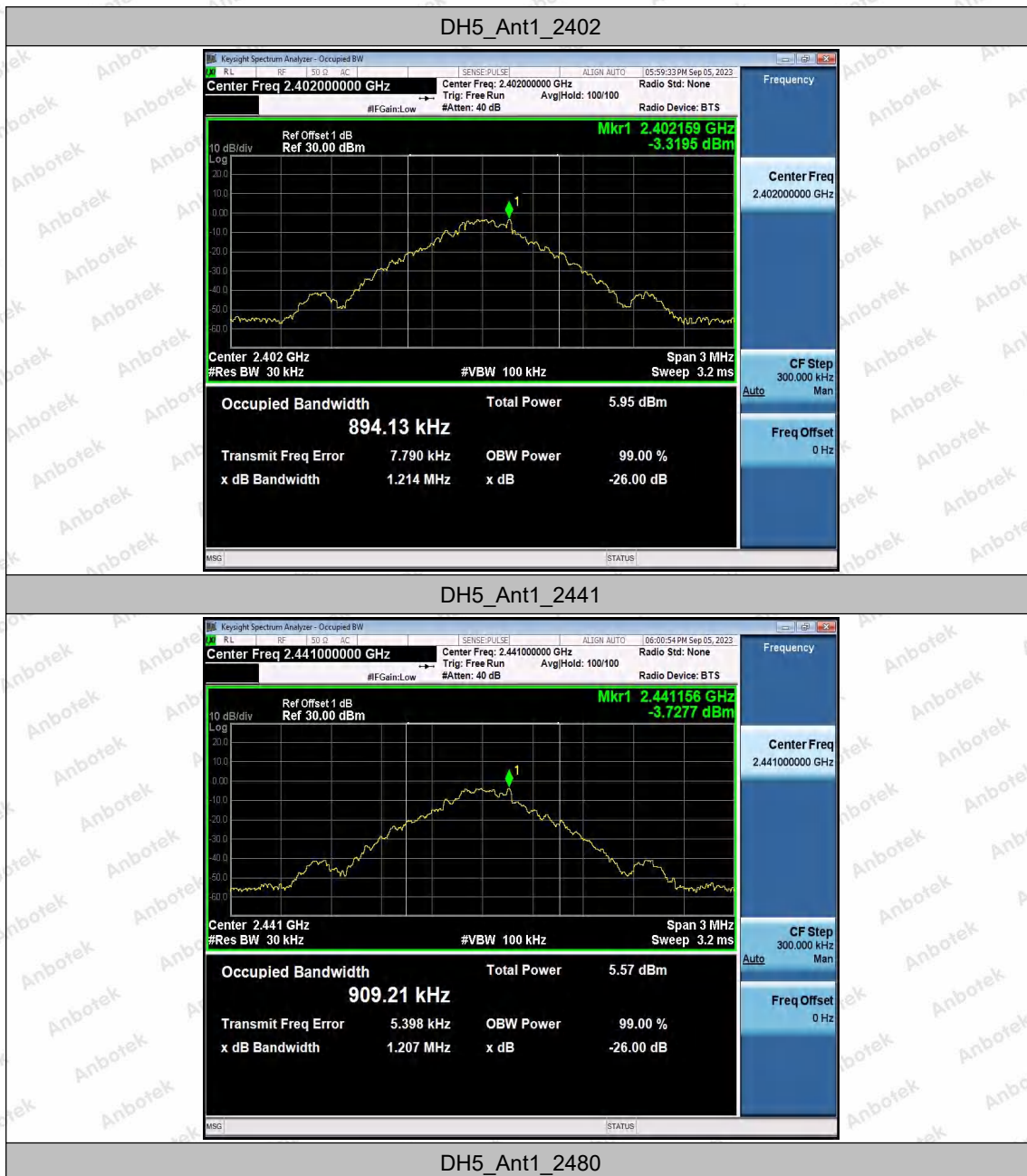
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.89413	2401.5607	2402.4549
		2441	0.90921	2440.5508	2441.4600
		2480	0.90352	2479.5531	2480.4566
2DH5	Ant1	2402	1.1886	2401.4090	2402.5976
		2441	1.1994	2440.4017	2441.6011
		2480	1.1944	2479.4016	2480.5960



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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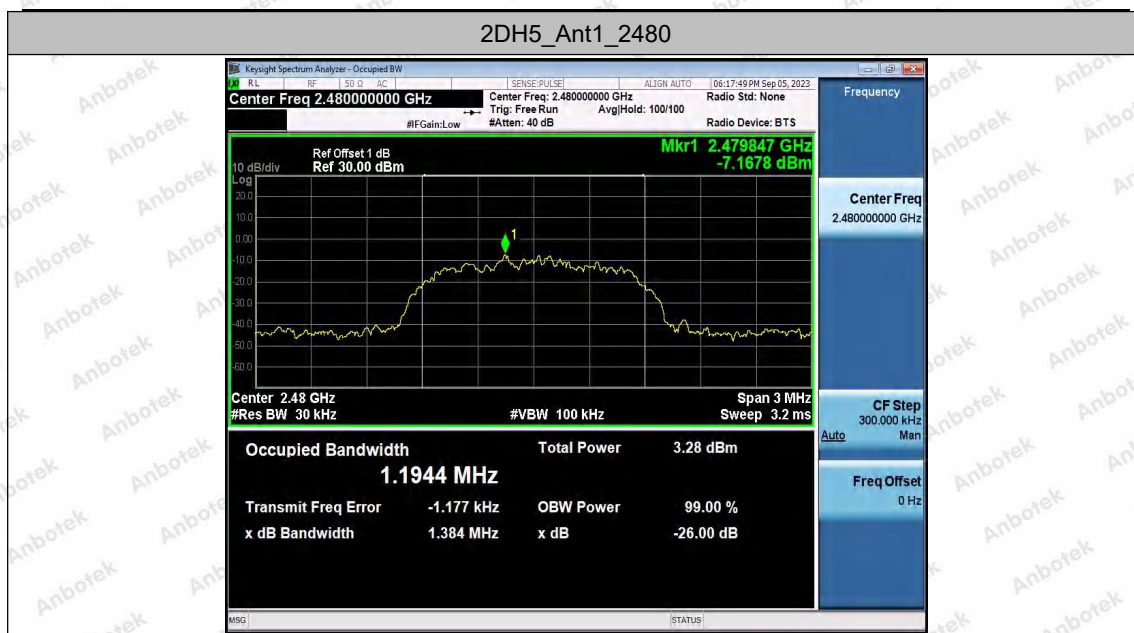


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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-0.98	≤20.97	PASS
		2480	-1.56	≤20.97	PASS
2DH5	Ant1	2402	-1.16	≤20.97	PASS
		2441	-1.78	≤20.97	PASS
		2480	-2.06	≤20.97	PASS



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

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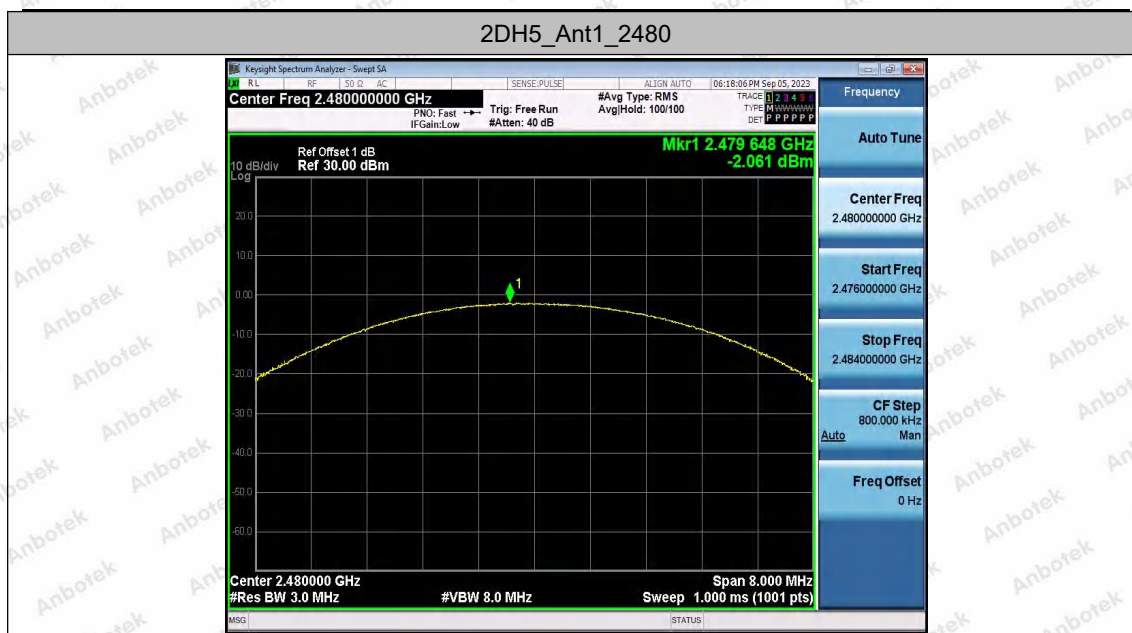


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.018	≥0.692	PASS
2DH5	Ant1	Hop	1.042	≥0.912	PASS

Test Graphs



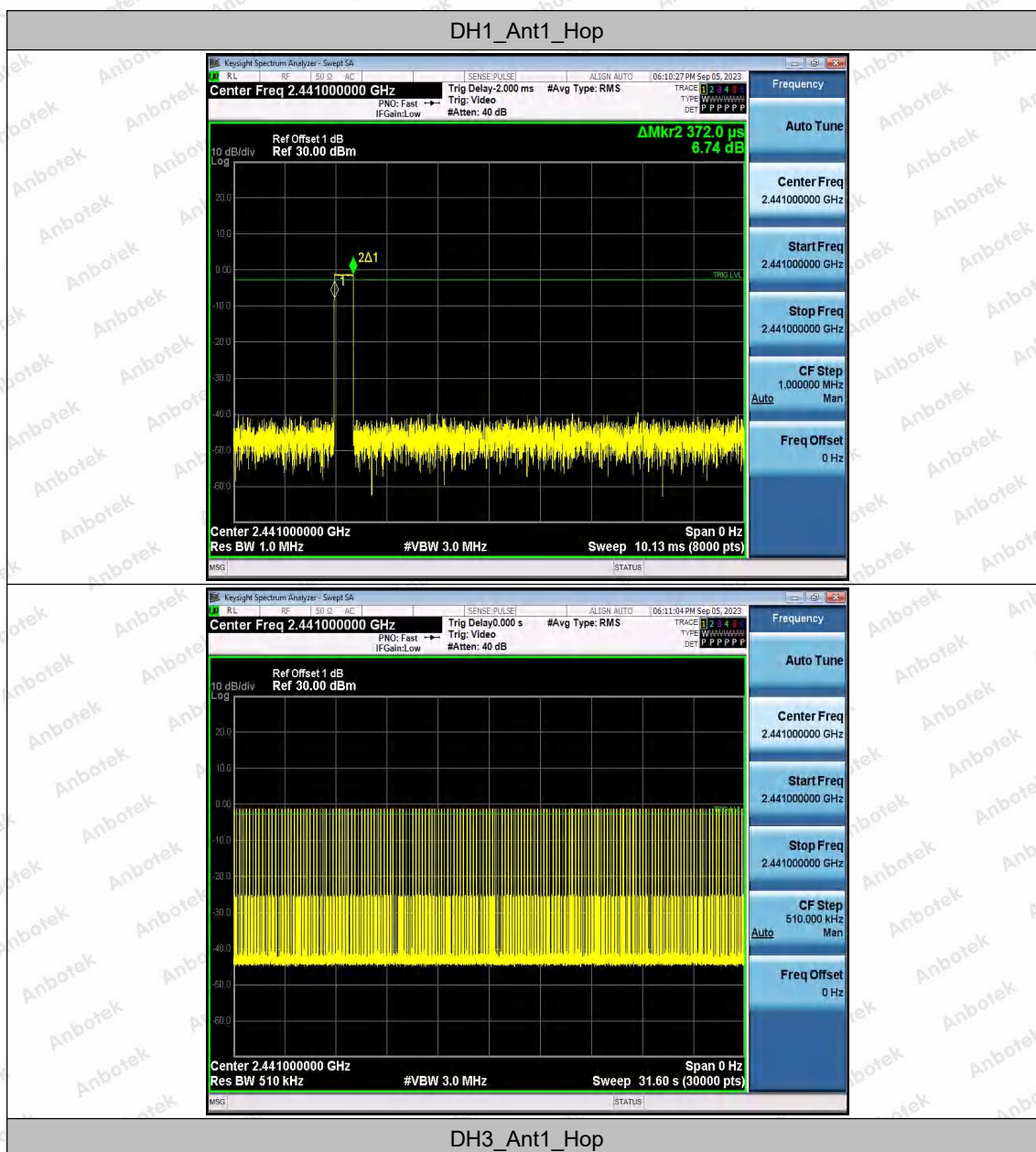
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.372	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.628	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.877	115	0.331	≤0.4	PASS
2DH1	Ant1	Hop	0.380	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.631	159	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.879	109	0.314	≤0.4	PASS



Test Graphs



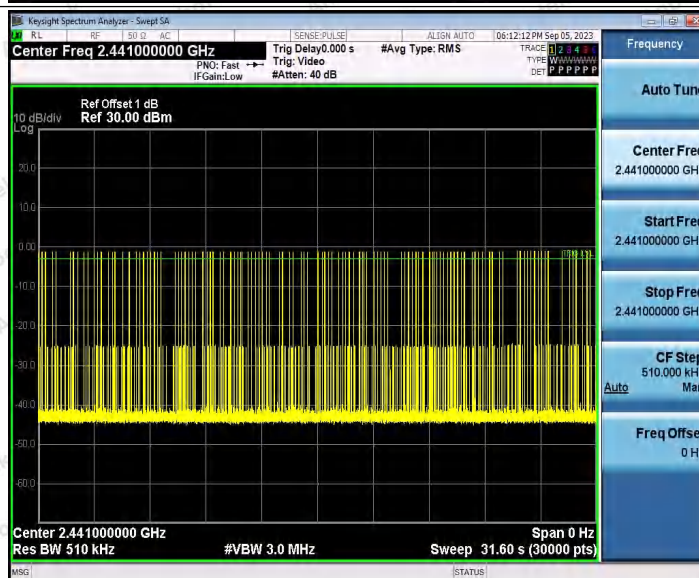
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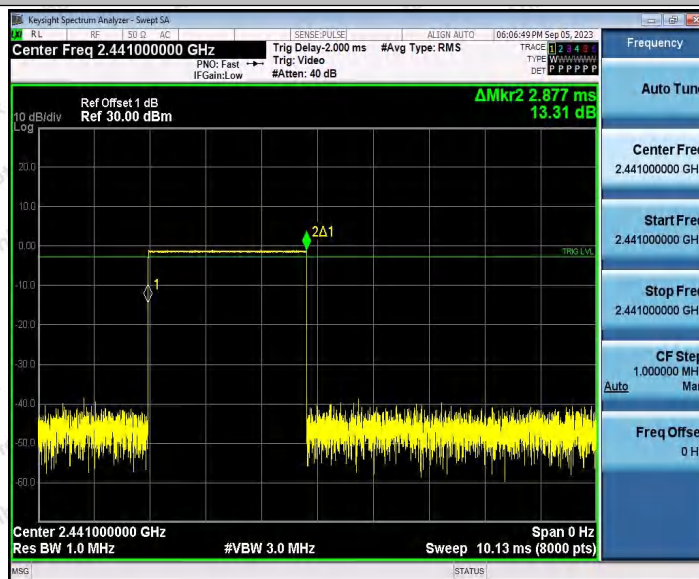


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DH5_Ant1_Hop



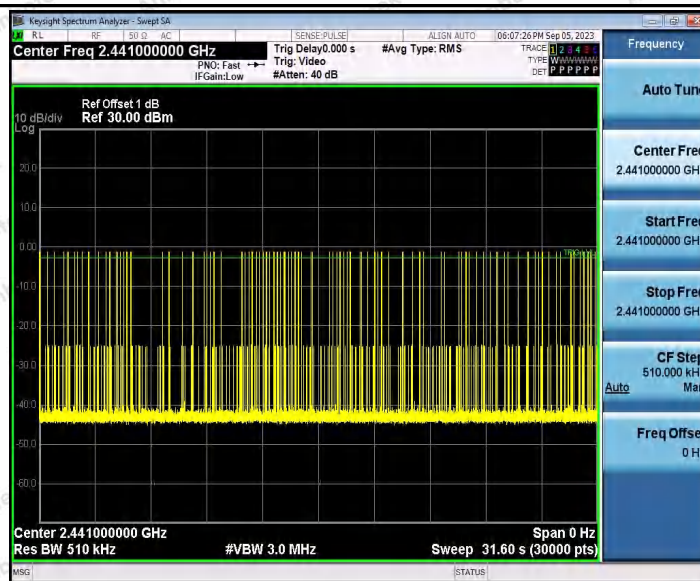
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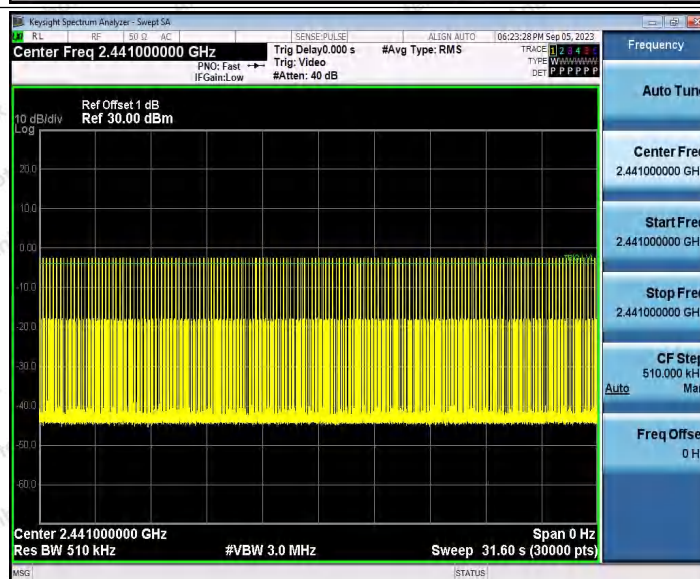
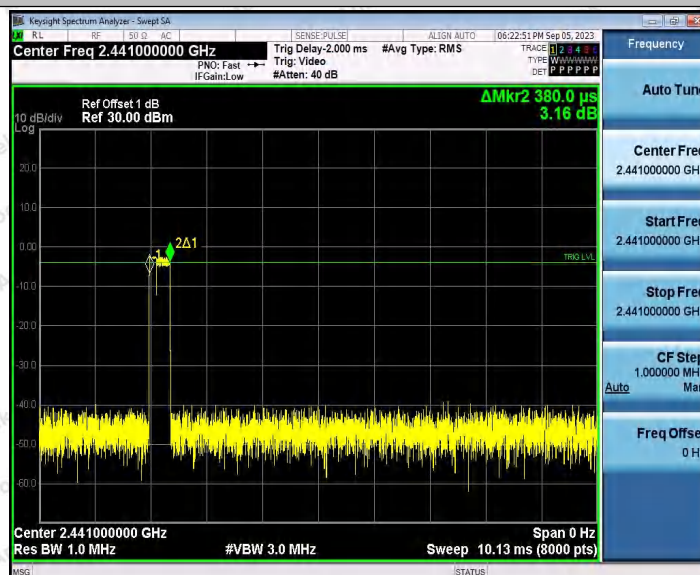


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

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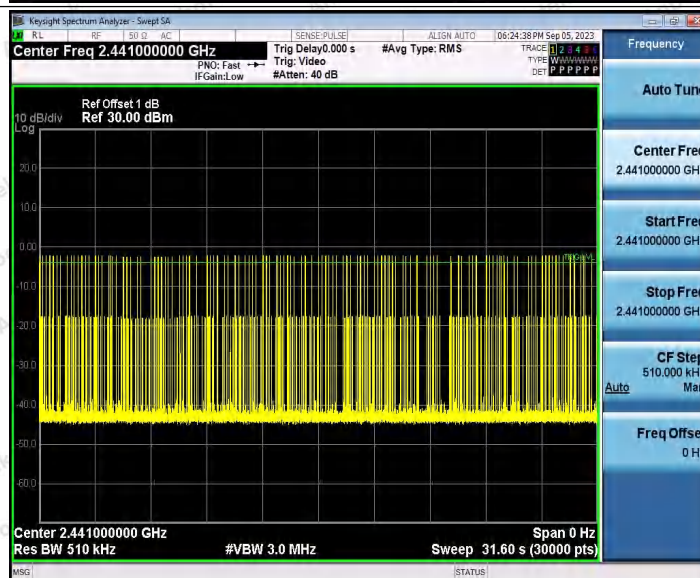
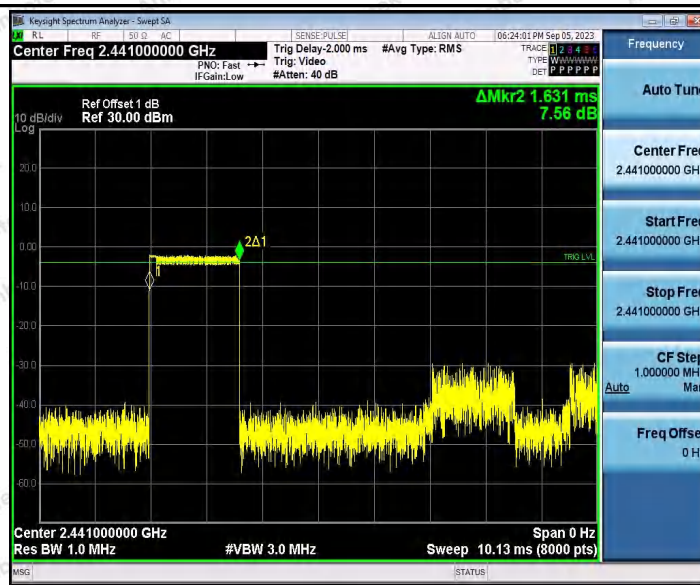


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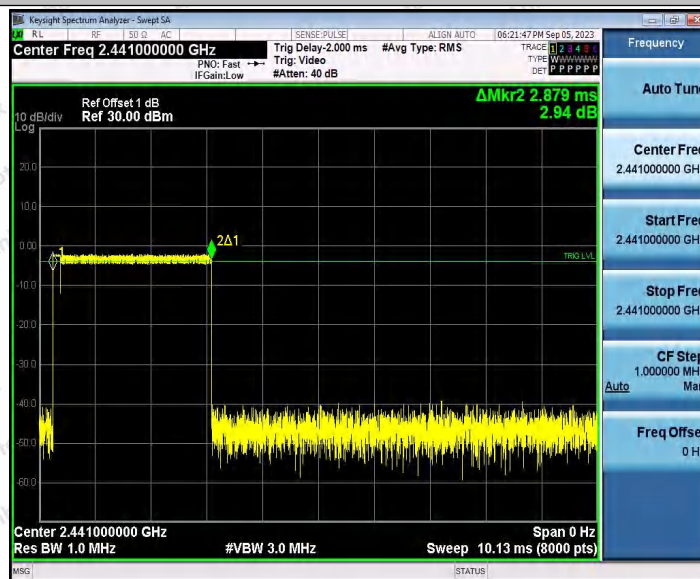
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2DH5_Ant1_Hop



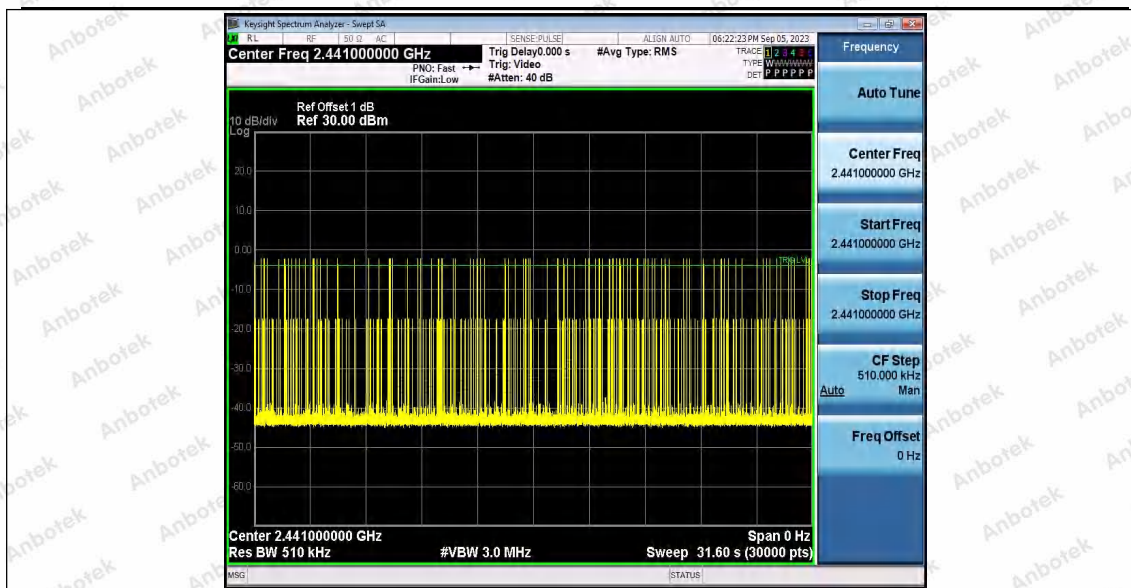
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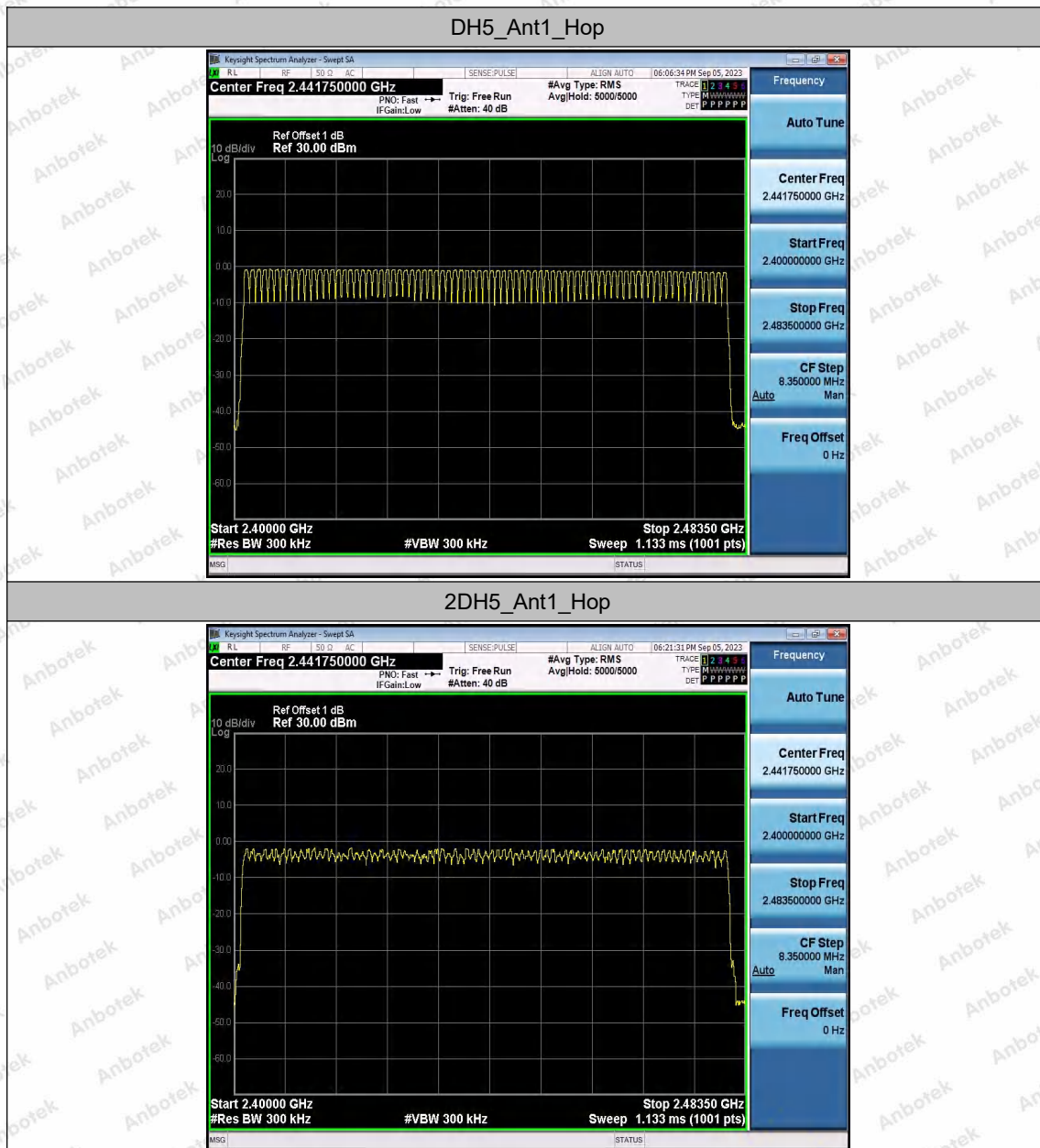


Appendix F: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



Appendix G: Band edge measurements

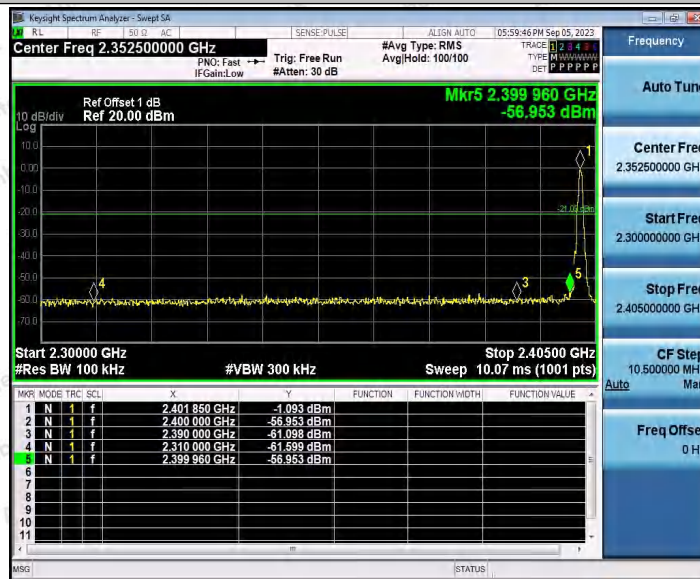
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.09	-56.95	≤-21.09	PASS
		High	2480	-1.90	-57.66	≤-21.90	PASS
		Low	Hop_2402	-1.55	-57.29	≤-21.55	PASS
		High	Hop_2480	-1.92	-56.39	≤-21.92	PASS
2DH5	Ant1	Low	2402	-4.07	-56.55	≤-24.07	PASS
		High	2480	-5.90	-56.72	≤-25.90	PASS
		Low	Hop_2402	-2.21	-57.14	≤-22.21	PASS
		High	Hop_2480	-2.70	-57.17	≤-22.70	PASS

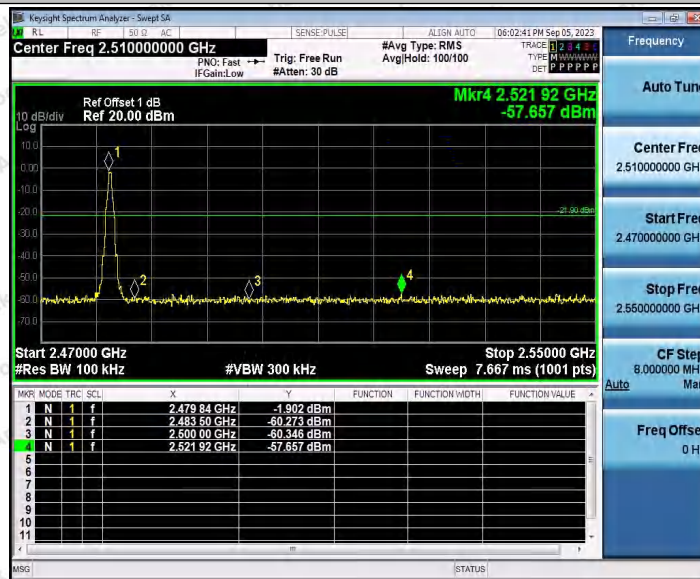


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

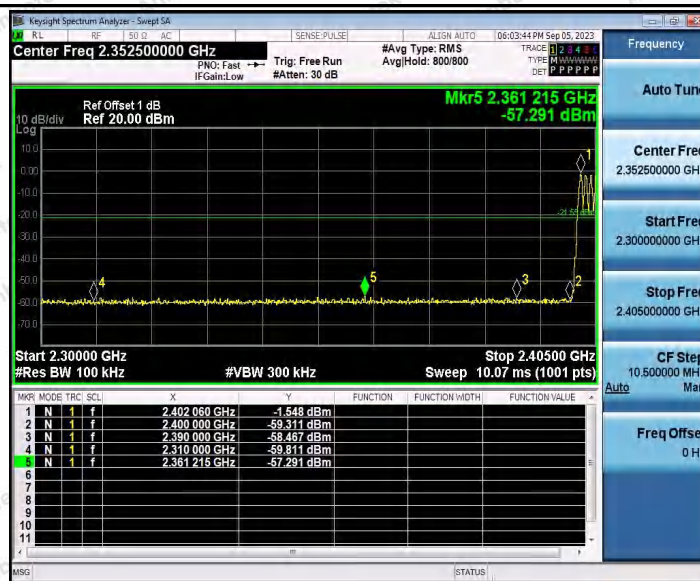
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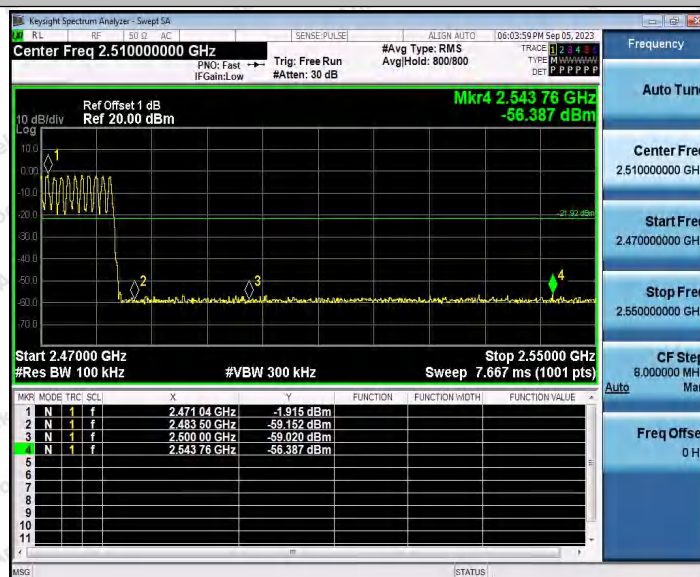


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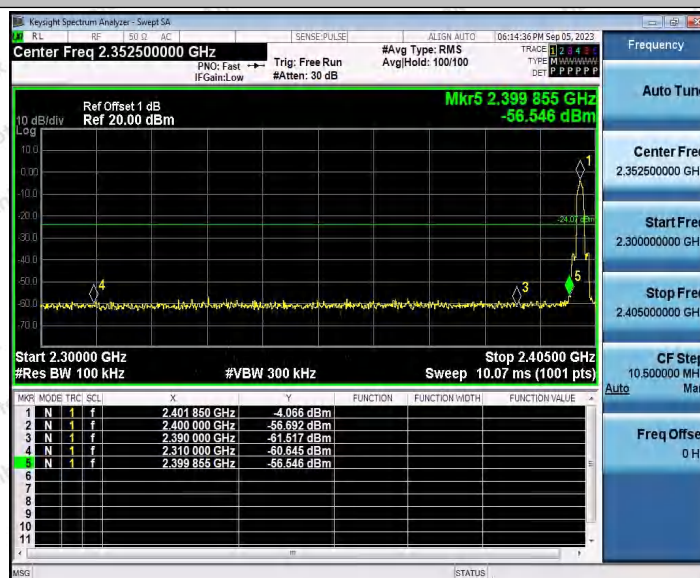




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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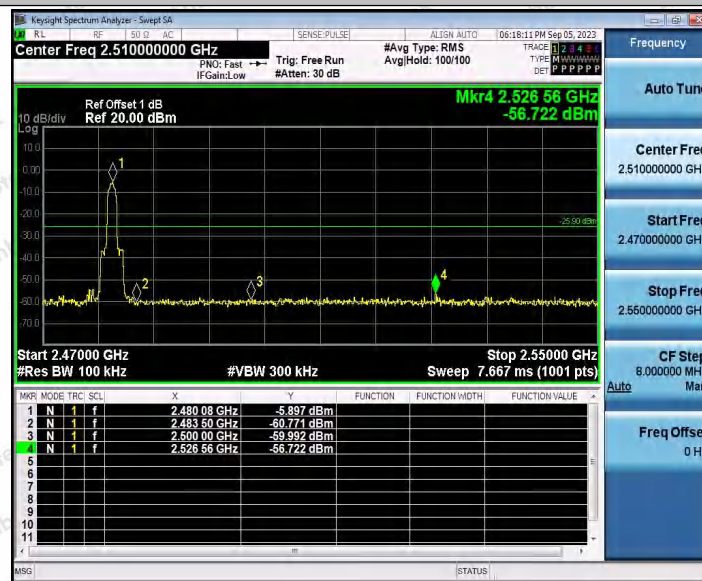
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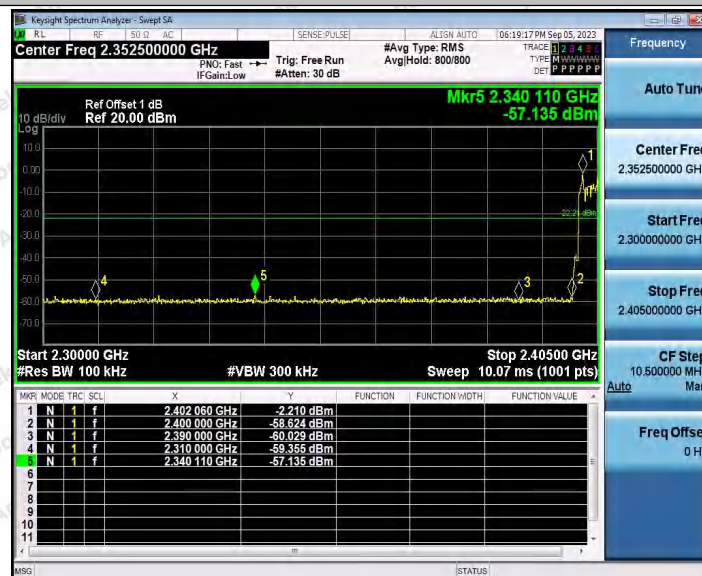
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

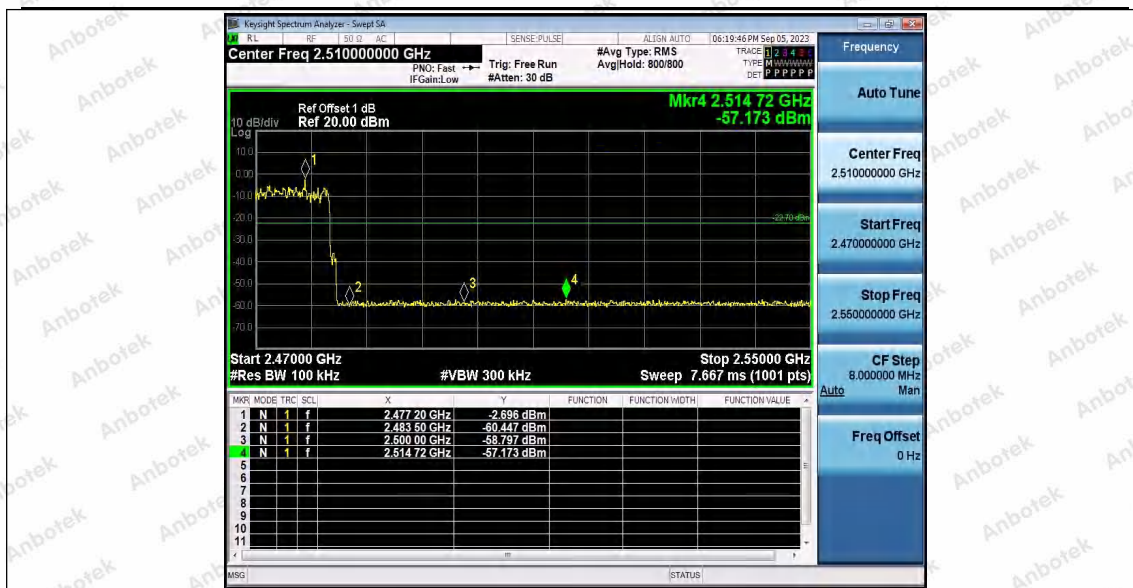
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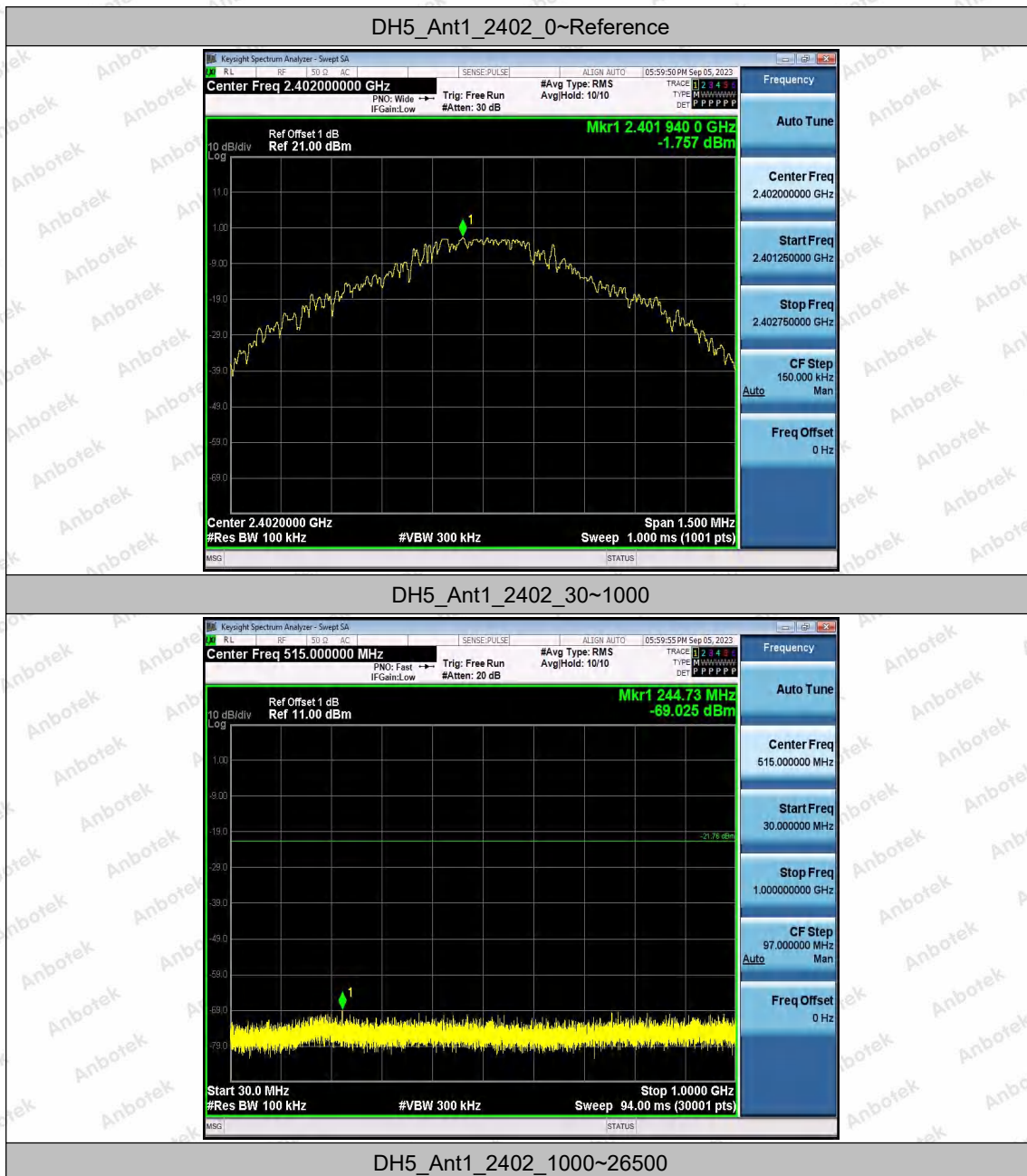
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.76	-1.76	---	PASS
			30~1000	-1.76	-69.03	≤-21.76	PASS
			1000~26500	-1.76	-52.84	≤-21.76	PASS
		2441	Reference	-1.96	-1.96	---	PASS
			30~1000	-1.96	-69.41	≤-21.96	PASS
			1000~26500	-1.96	-54.09	≤-21.96	PASS
		2480	Reference	-2.41	-2.41	---	PASS
			30~1000	-2.41	-66.92	≤-22.41	PASS
			1000~26500	-2.41	-53.49	≤-22.41	PASS
2DH5	Ant1	2402	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-69.46	≤-23.19	PASS
			1000~26500	-3.19	-53.74	≤-23.19	PASS
		2441	Reference	-5.44	-5.44	---	PASS
			30~1000	-5.44	-69.31	≤-25.44	PASS
			1000~26500	-5.44	-52.72	≤-25.44	PASS
		2480	Reference	-4.20	-4.20	---	PASS
			30~1000	-4.20	-69.14	≤-24.2	PASS
			1000~26500	-4.20	-53.38	≤-24.2	PASS



Test Graphs



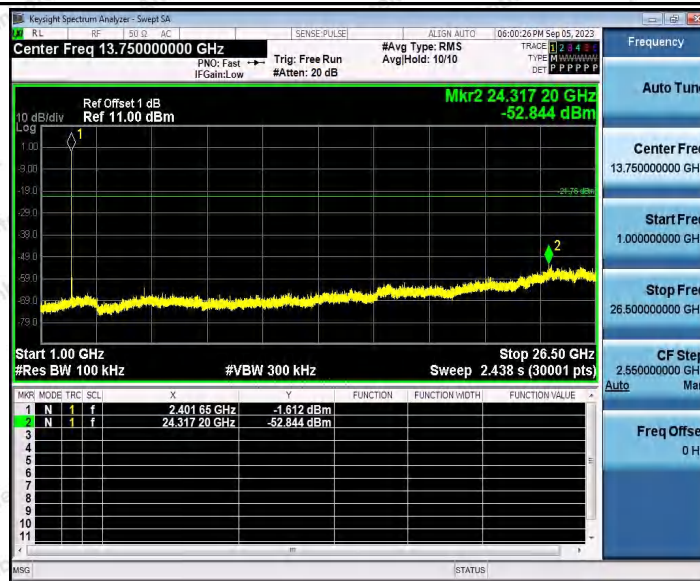
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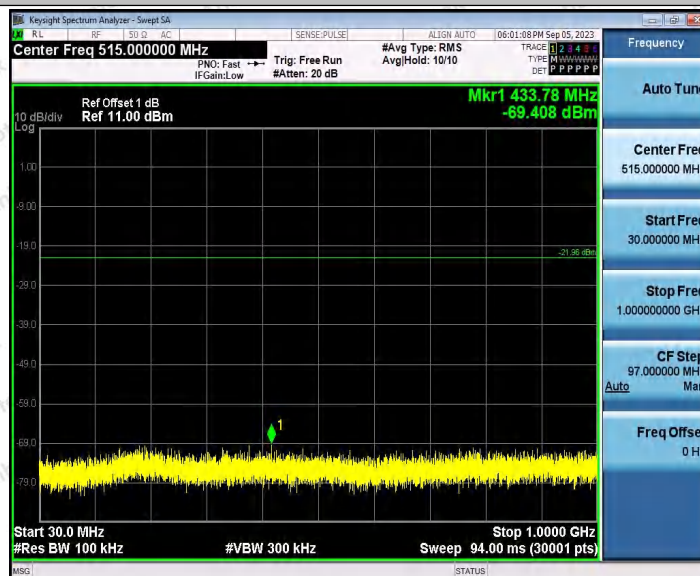




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



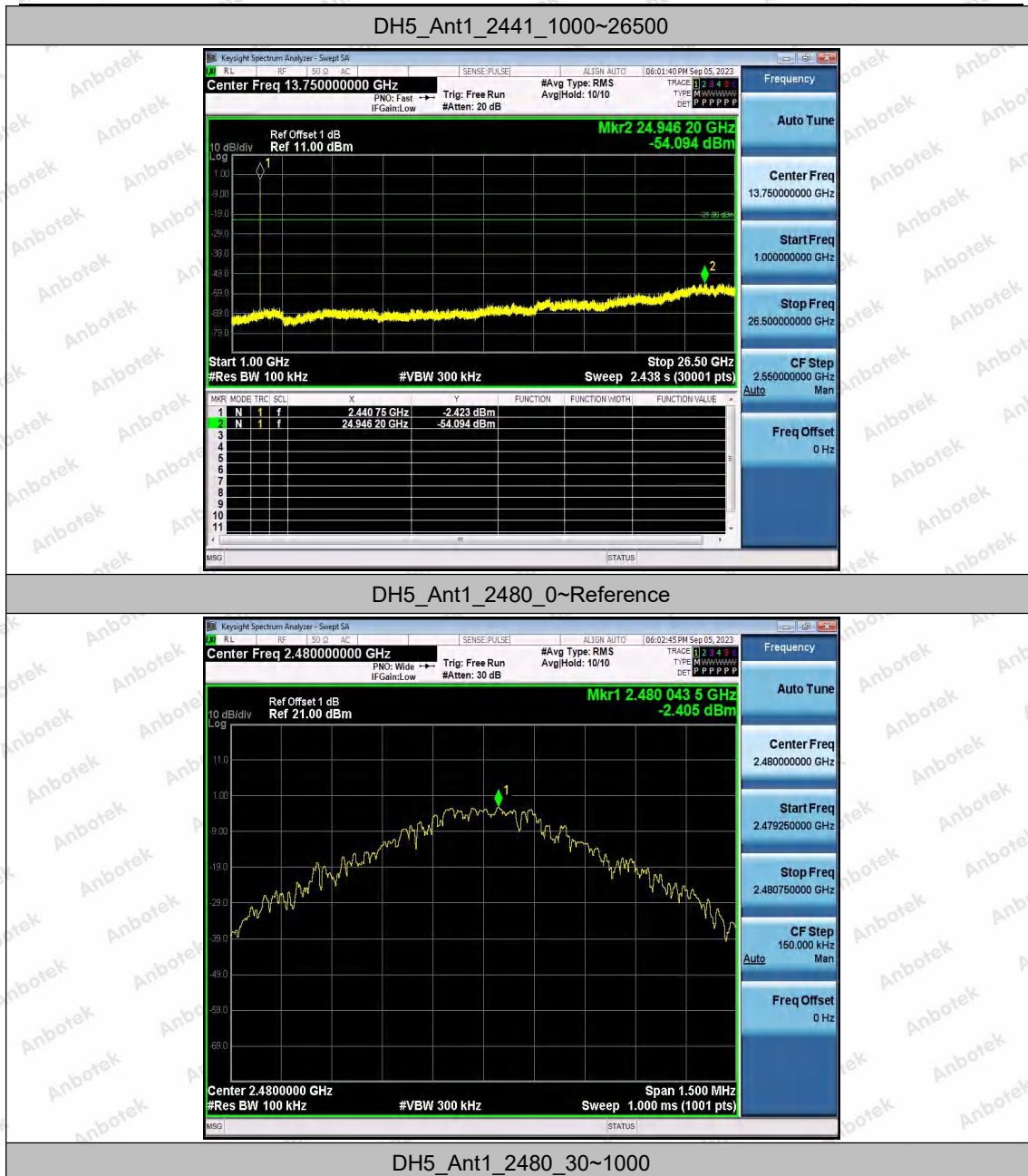
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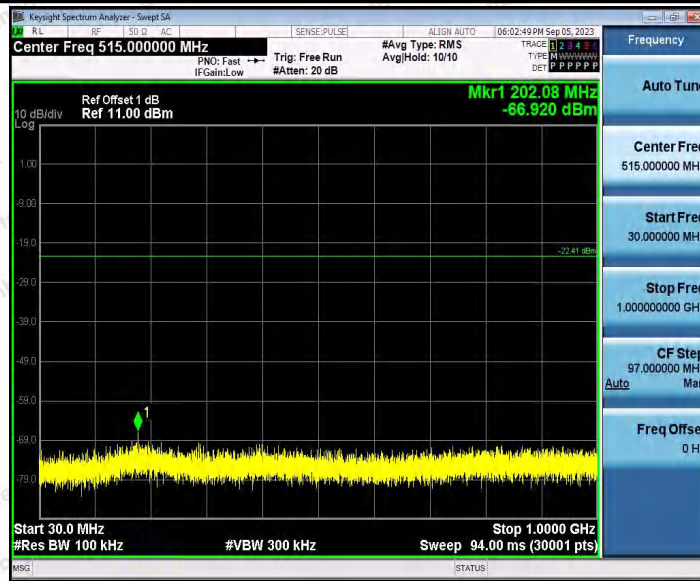
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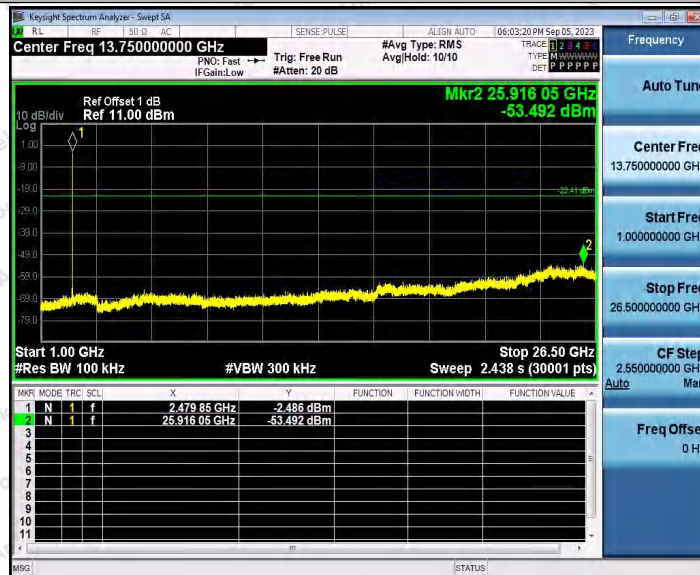


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



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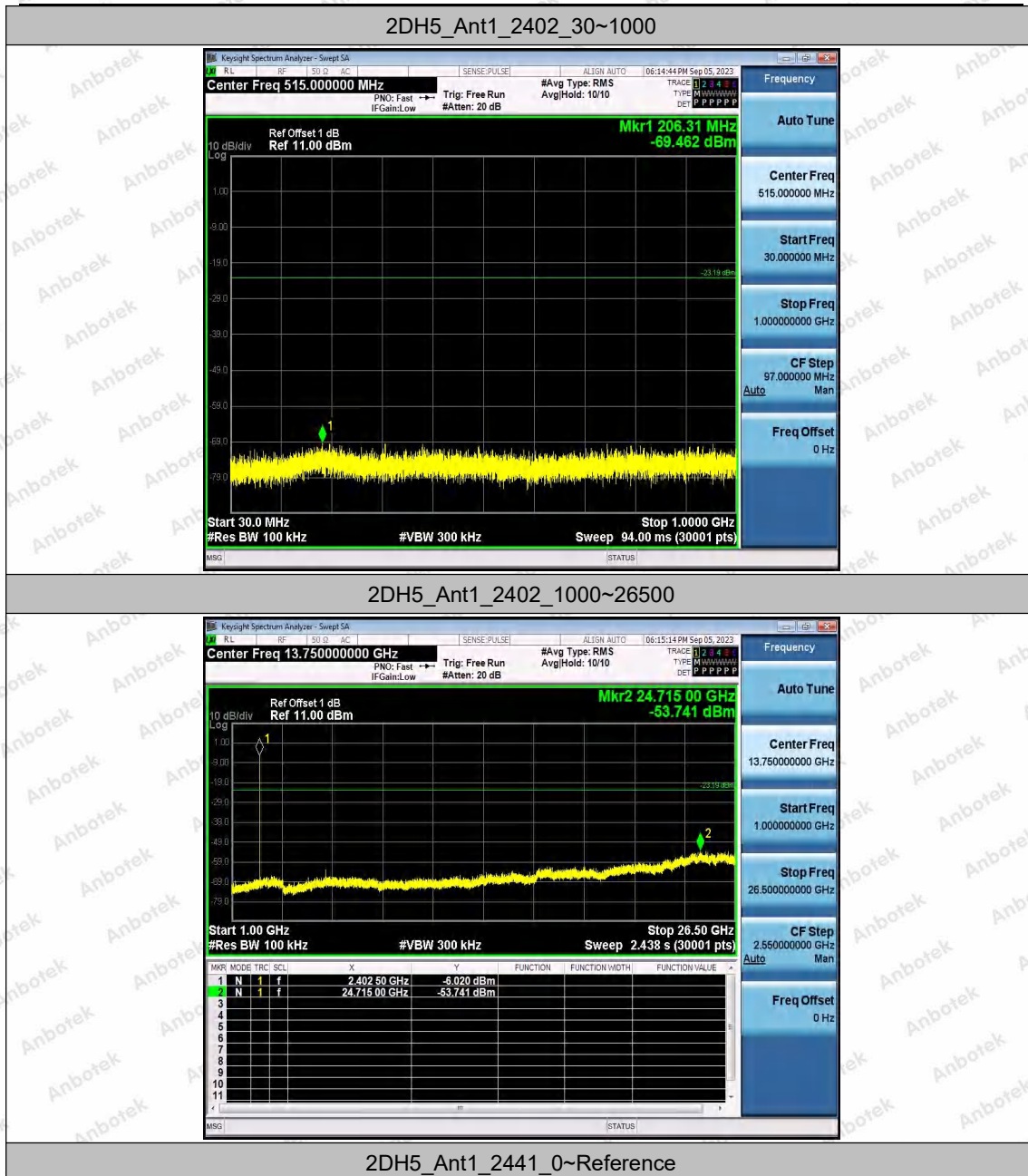


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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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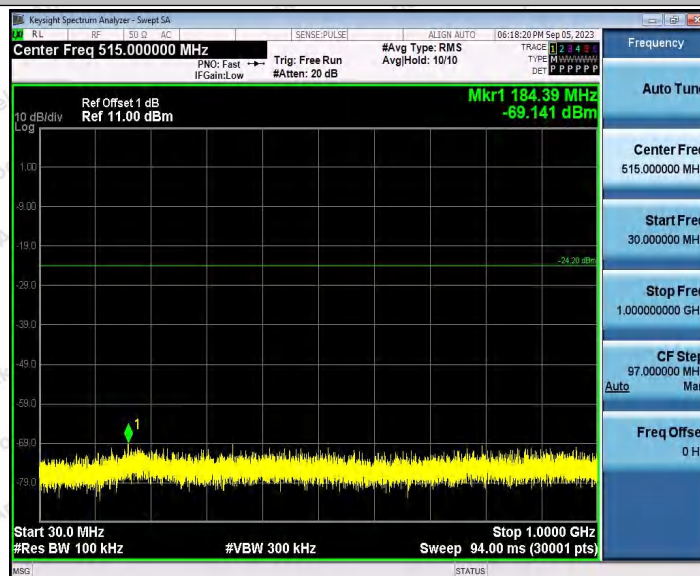
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

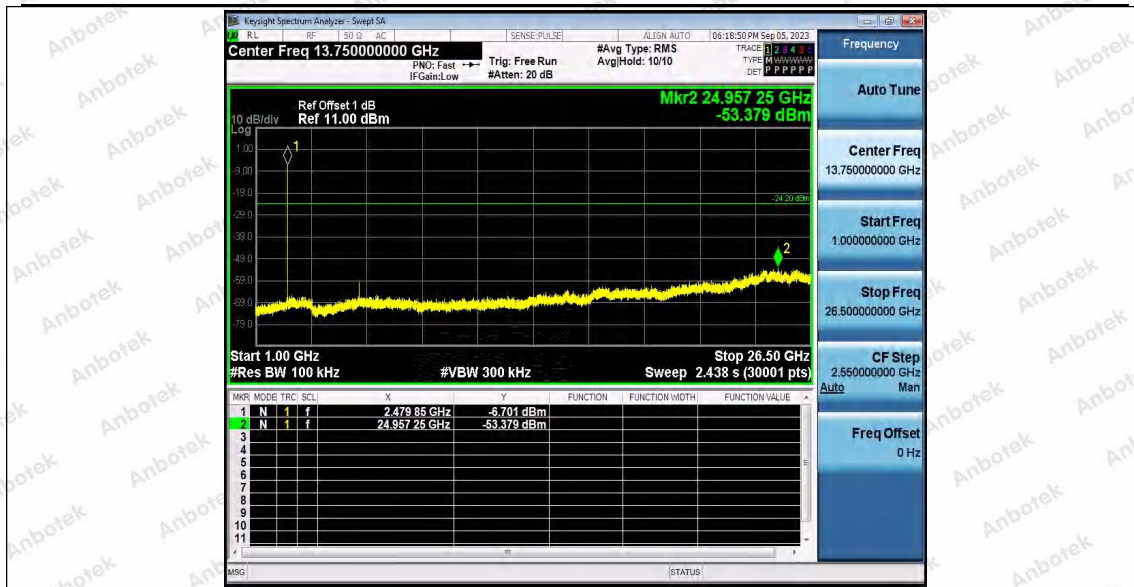
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Appendix I: Duty Cycle

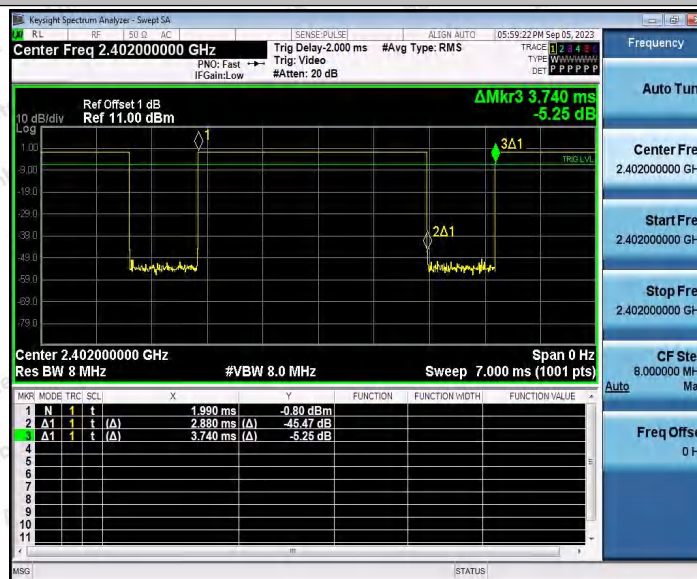
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
		2441	2.88	3.75	76.80	1.15
		2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.88	3.74	77.01	1.13
		2480	2.88	3.74	77.01	1.13



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

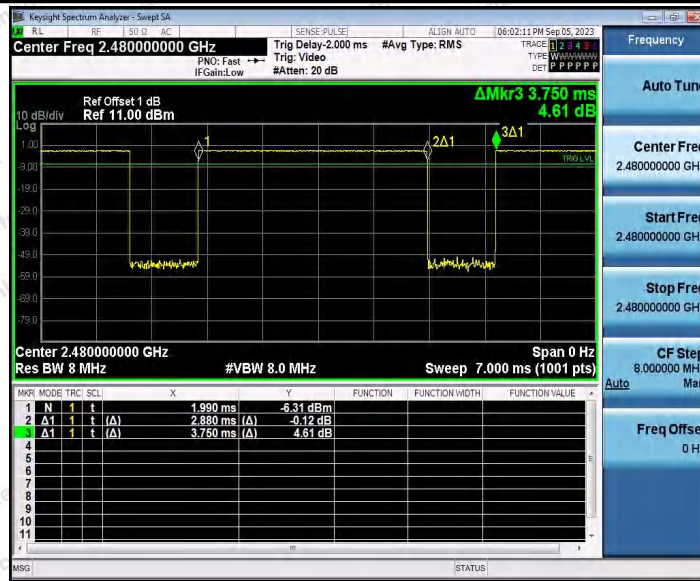
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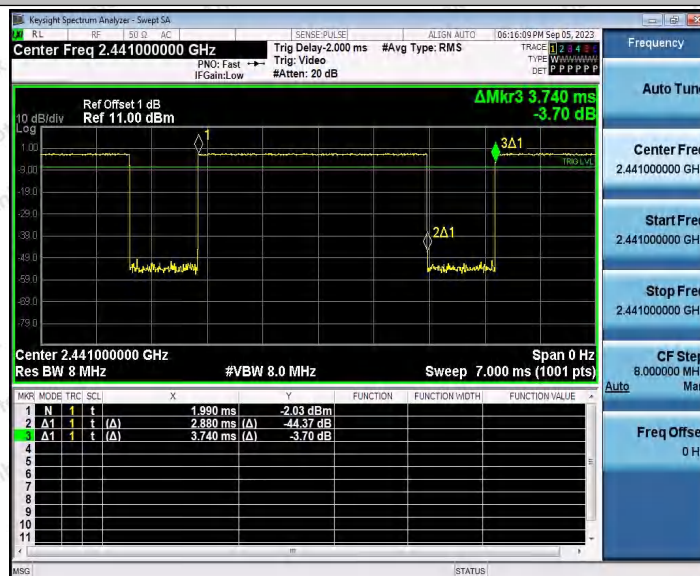




2DH5_Ant1_2402



2DH5_Ant1_2441



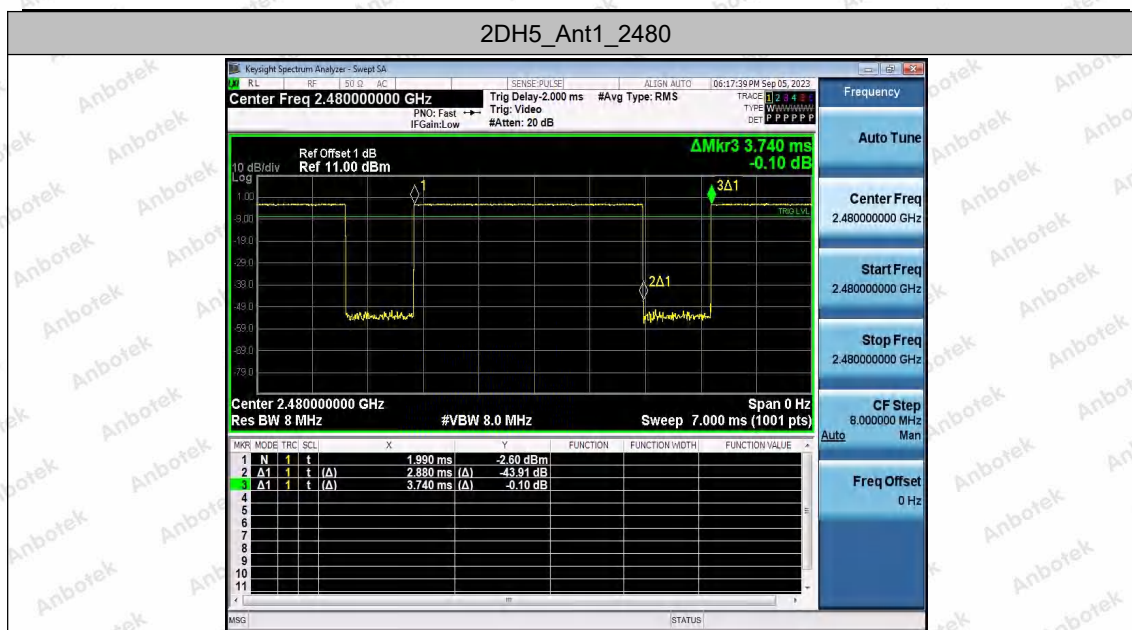
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