

Appendix Test Data

Report No.:	18220WC20197701	Test Sample No.:	1-2-2
Start Test Date:	2022.8.24	Finish Test Date:	2022.9.9
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3C°	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	1.035	2401.472	2402.507
		2441	0.957	2440.535	2441.492
		2480	0.972	2479.517	2480.489
2DH5	Ant1	2402	1.326	2401.334	2402.660
		2441	1.317	2440.340	2441.657
		2480	1.293	2479.361	2480.654



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



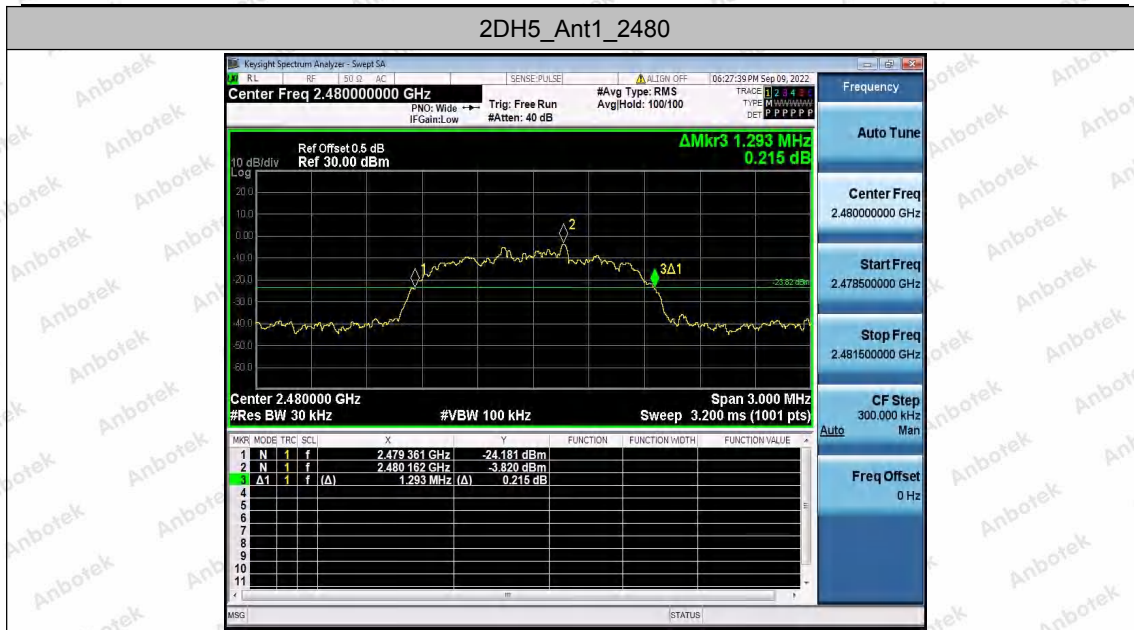
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.89938	2401.5597	2402.4591
		2441	0.88908	2440.5559	2441.4450
		2480	0.89811	2479.5516	2480.4497
2DH5	Ant1	2402	1.1833	2401.4078	2402.5911
		2441	1.1939	2440.4024	2441.5963
		2480	1.1944	2479.4025	2480.5969



Test Graphs



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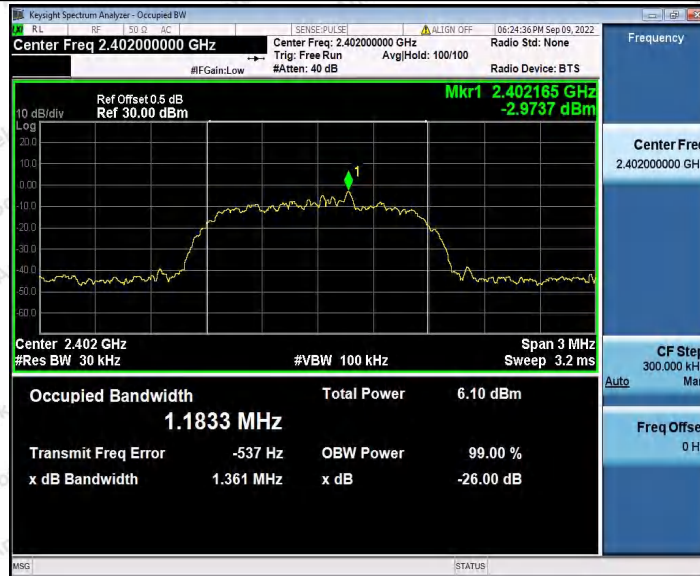


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2DH5_Ant1_2402



2DH5_Ant1_2441



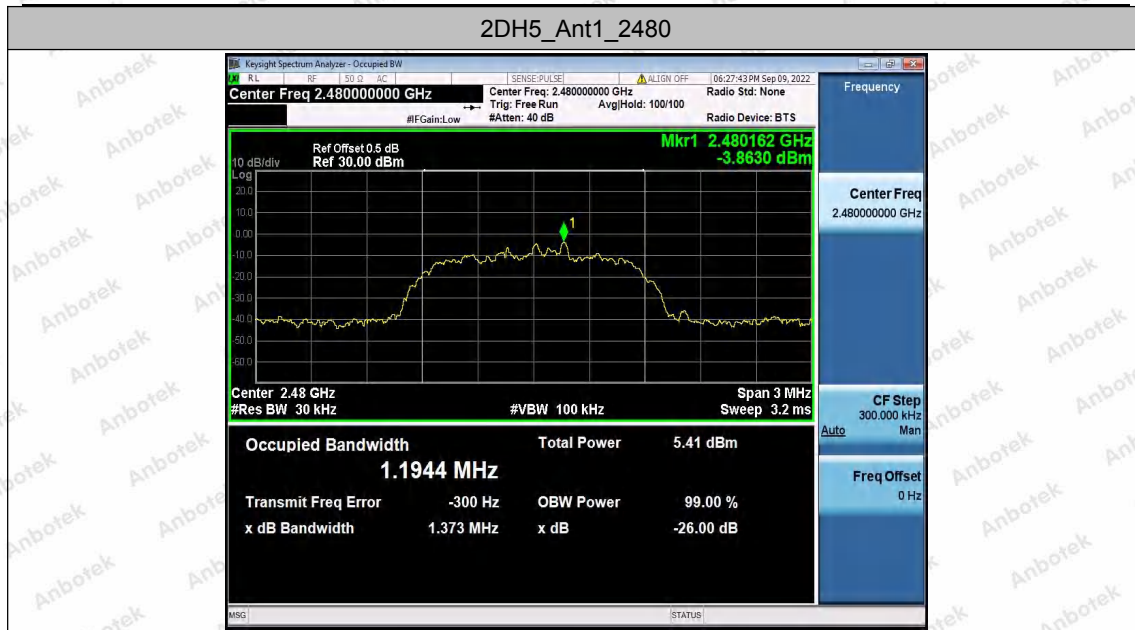
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.45	≤20.97	PASS
		2441	1.4	≤20.97	PASS
		2480	0.39	≤20.97	PASS
2DH5	Ant1	2402	0.9	≤20.97	PASS
		2441	0.92	≤20.97	PASS
		2480	-0.33	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.336	≥0.69	PASS
2DH5	Ant1	Hop	1	≥0.884	PASS

Test Graphs



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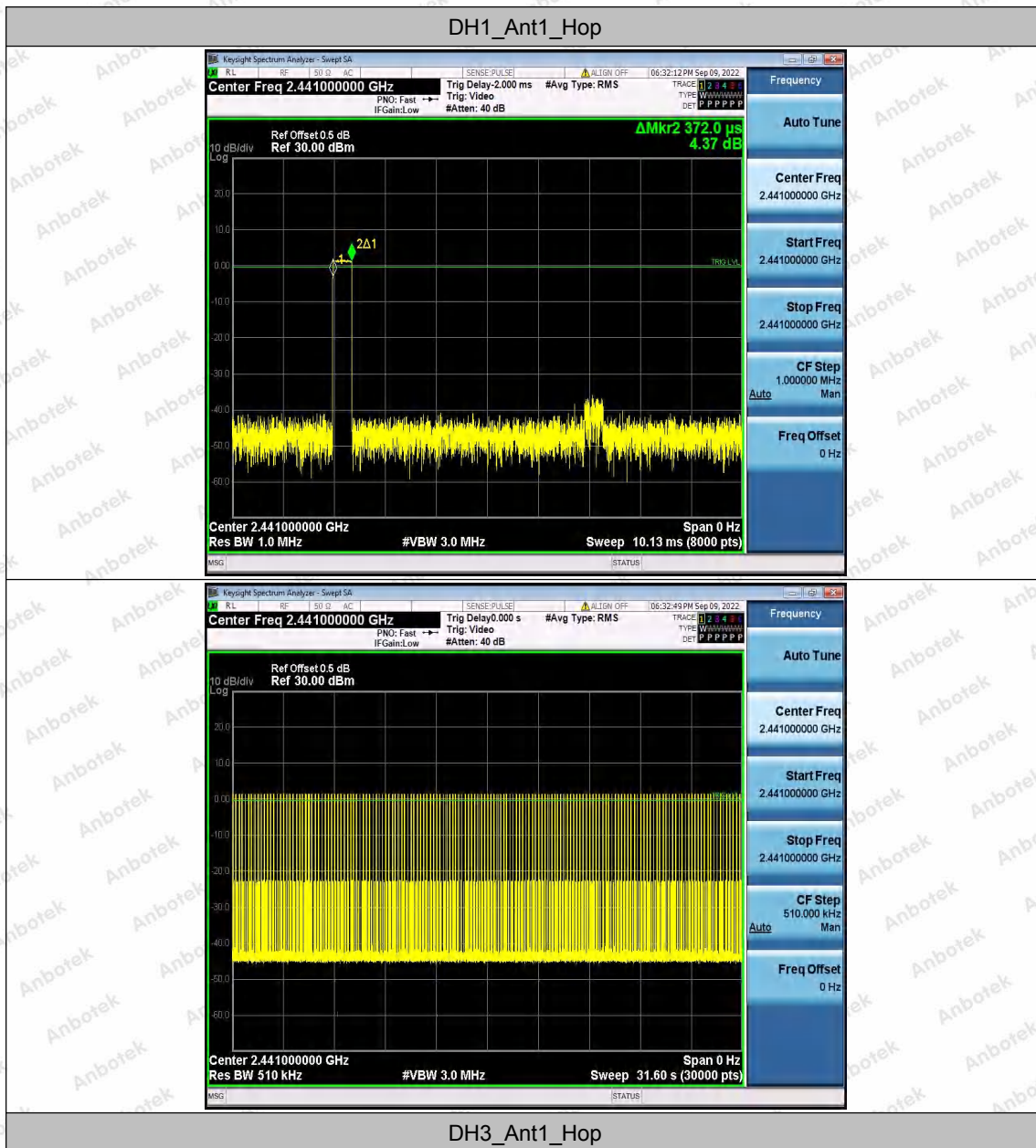
Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.372	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.629	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.877	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.380	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.631	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.879	97	0.279	≤0.4	PASS



Test Graphs



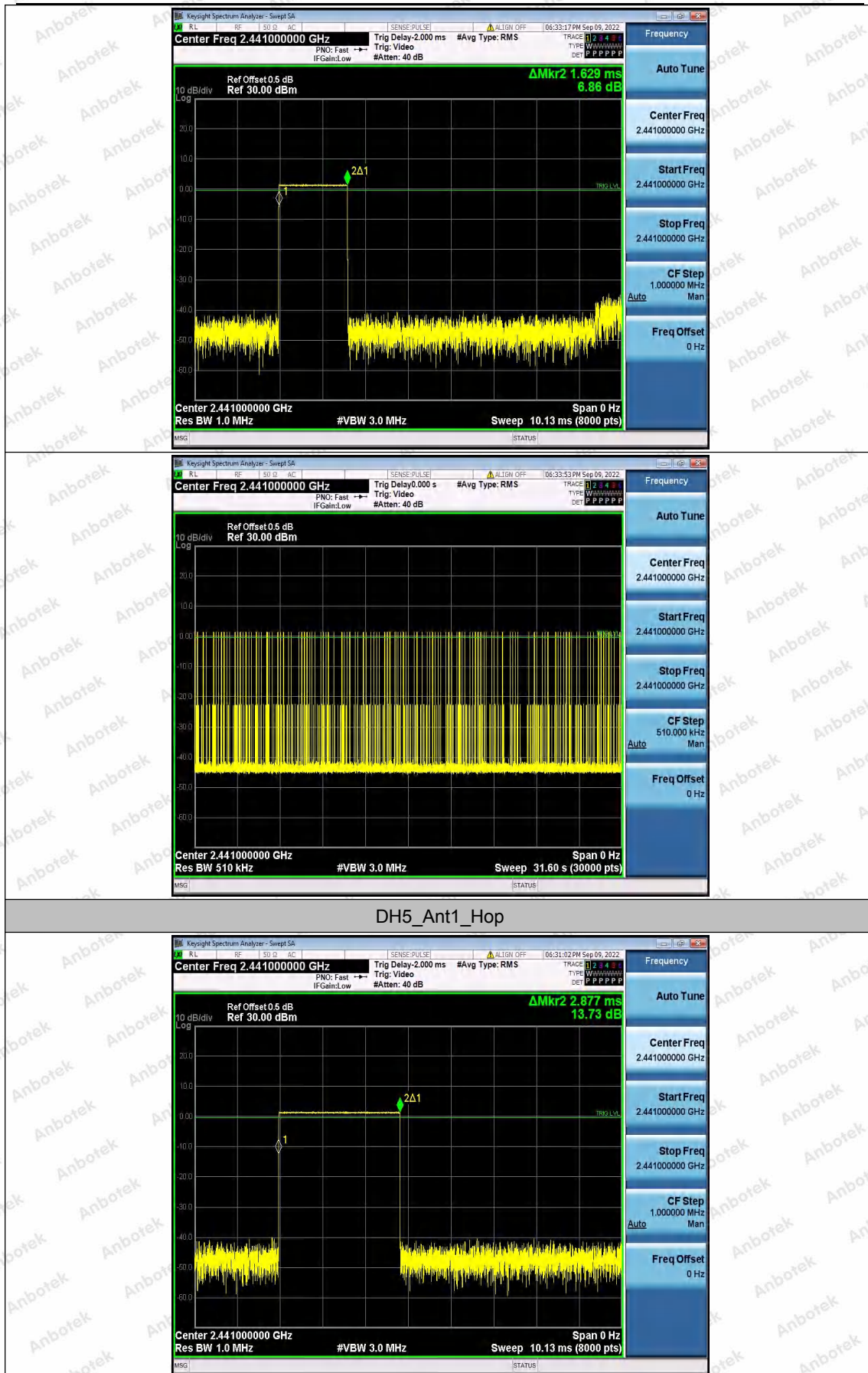
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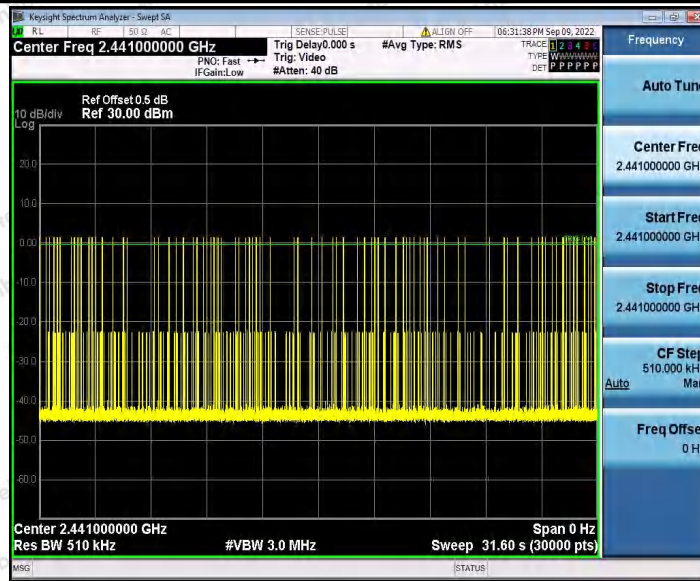


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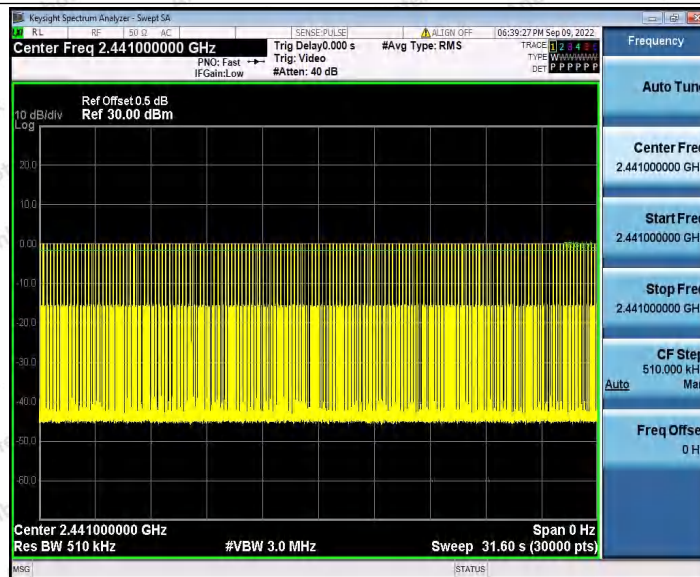
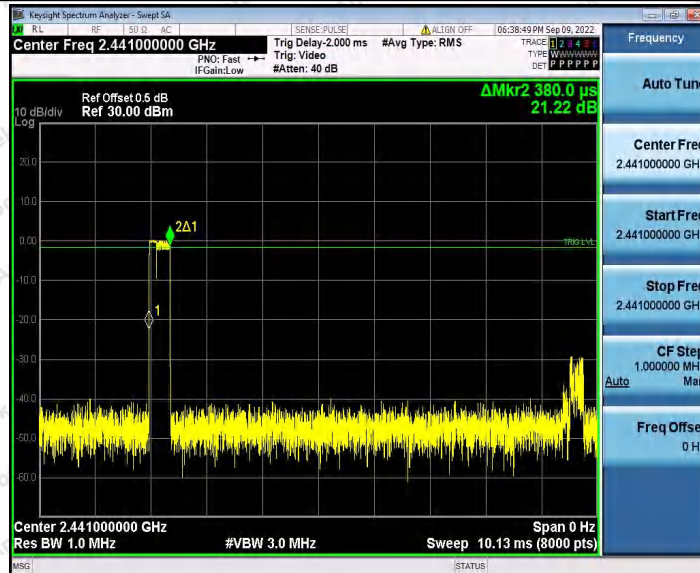
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

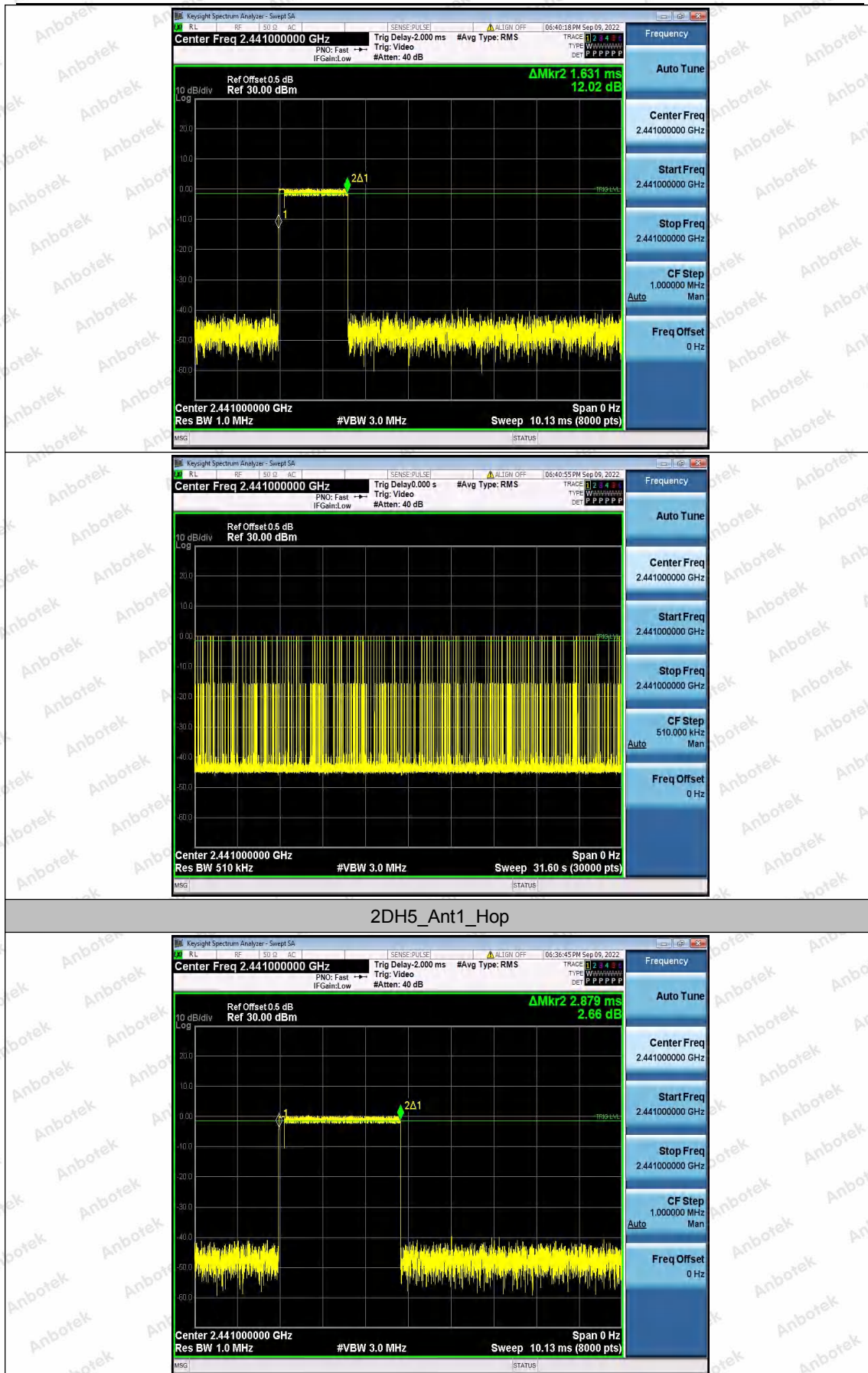
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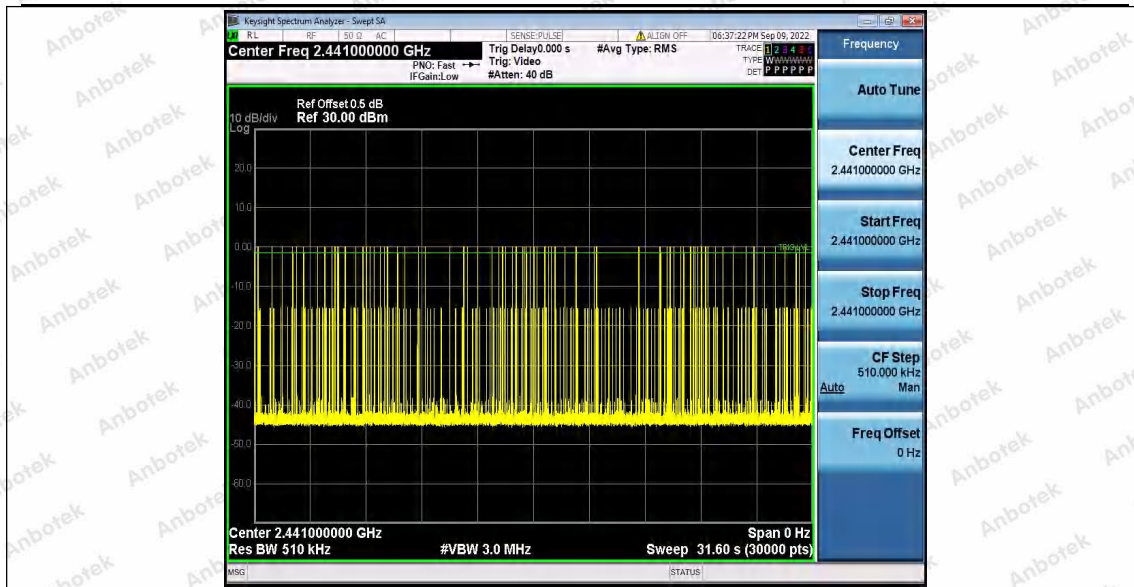


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Appendix F: Number of hopping channels

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



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Appendix G: Band edge measurements

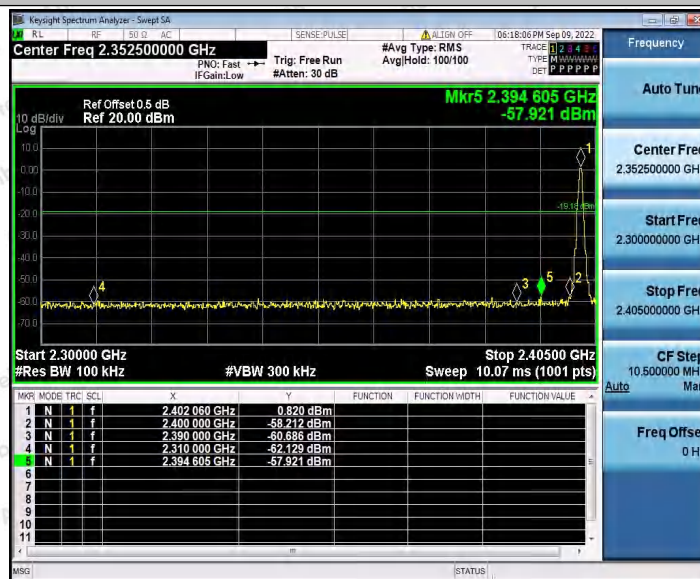
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.82	-57.92	≤-19.18	PASS
		High	2480	-0.01	-57.2	≤-20.01	PASS
		Low	Hop_2402	0.89	-57.47	≤-19.12	PASS
		High	Hop_2480	0.05	-57.86	≤-19.95	PASS
2DH5	Ant1	Low	2402	-0.64	-55.75	≤-20.64	PASS
		High	2480	-2.16	-57.91	≤-22.16	PASS
		Low	Hop_2402	-2.56	-58.23	≤-22.56	PASS
		High	Hop_2480	-2.68	-57.69	≤-22.68	PASS

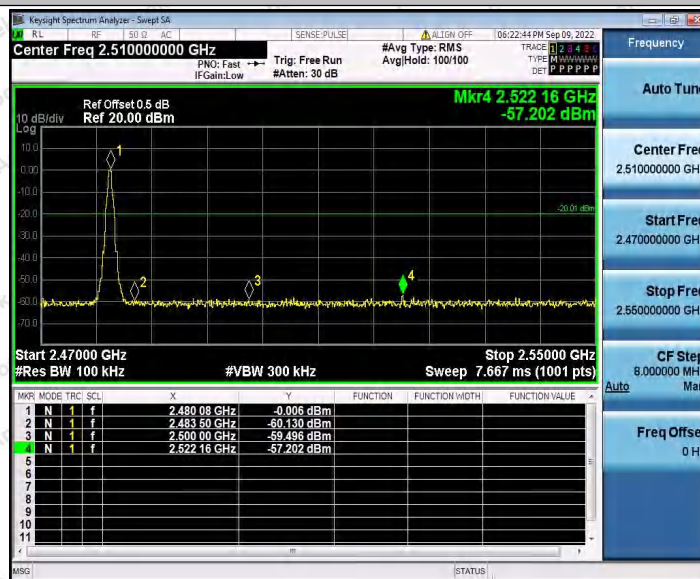


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

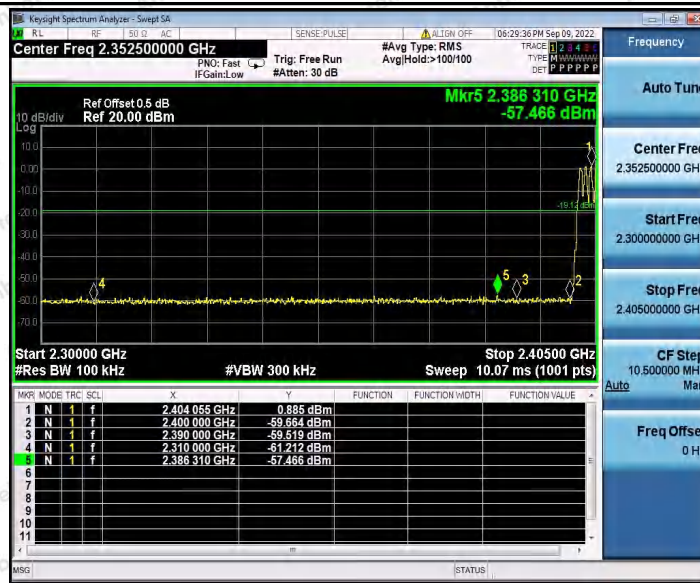
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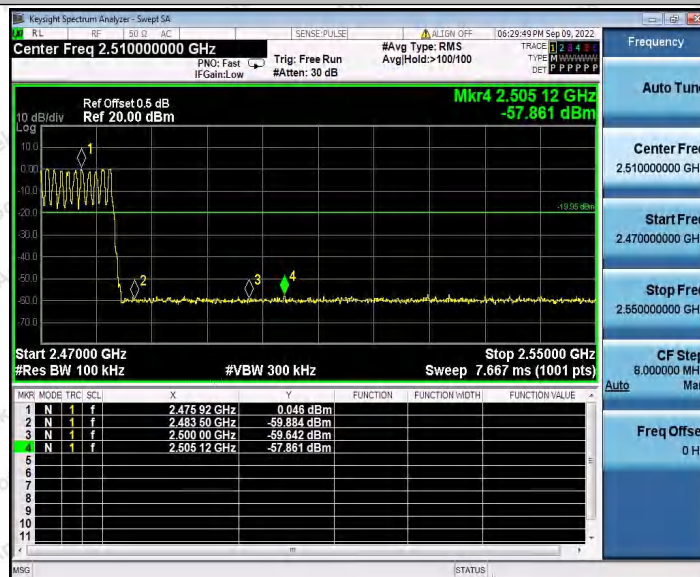


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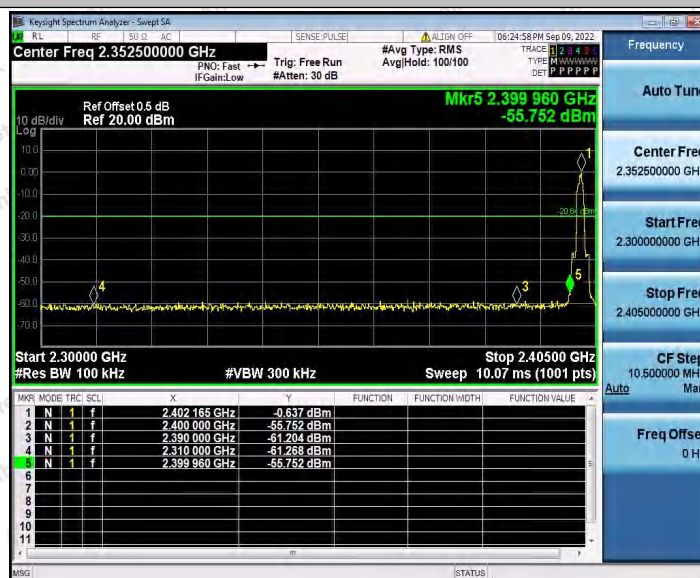




DH5_Ant1_High_Hop_2480



2DH5_Ant1_High_Hop_2480



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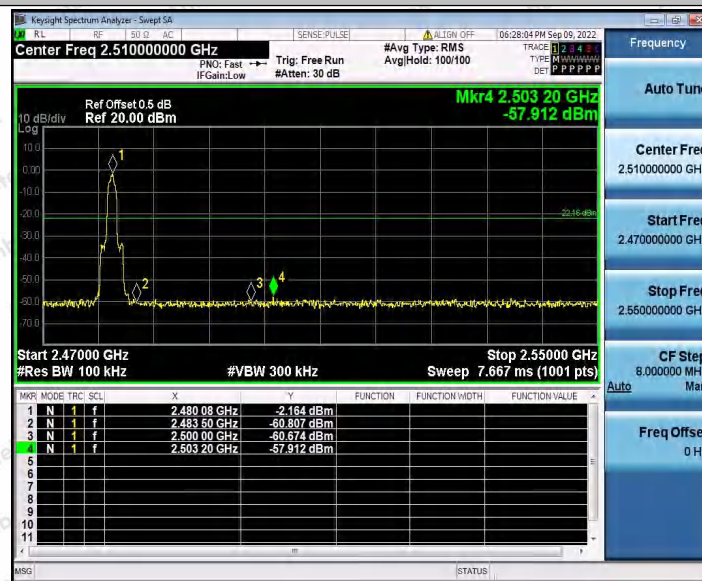
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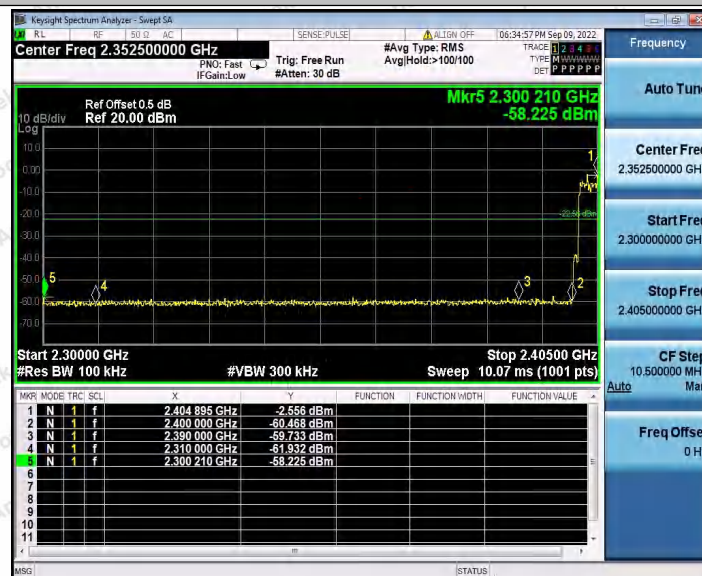
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

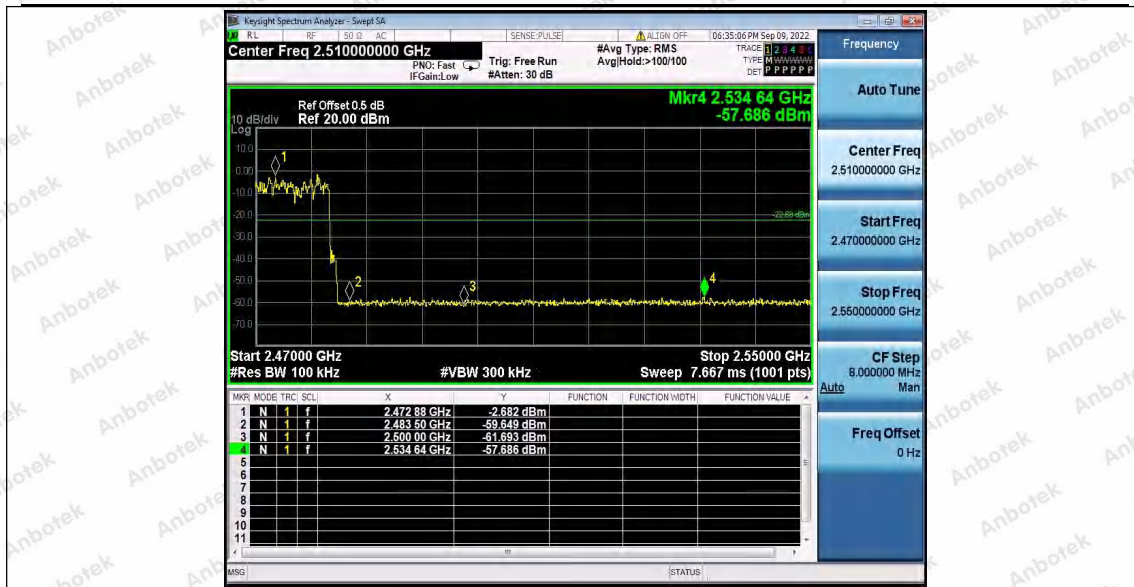
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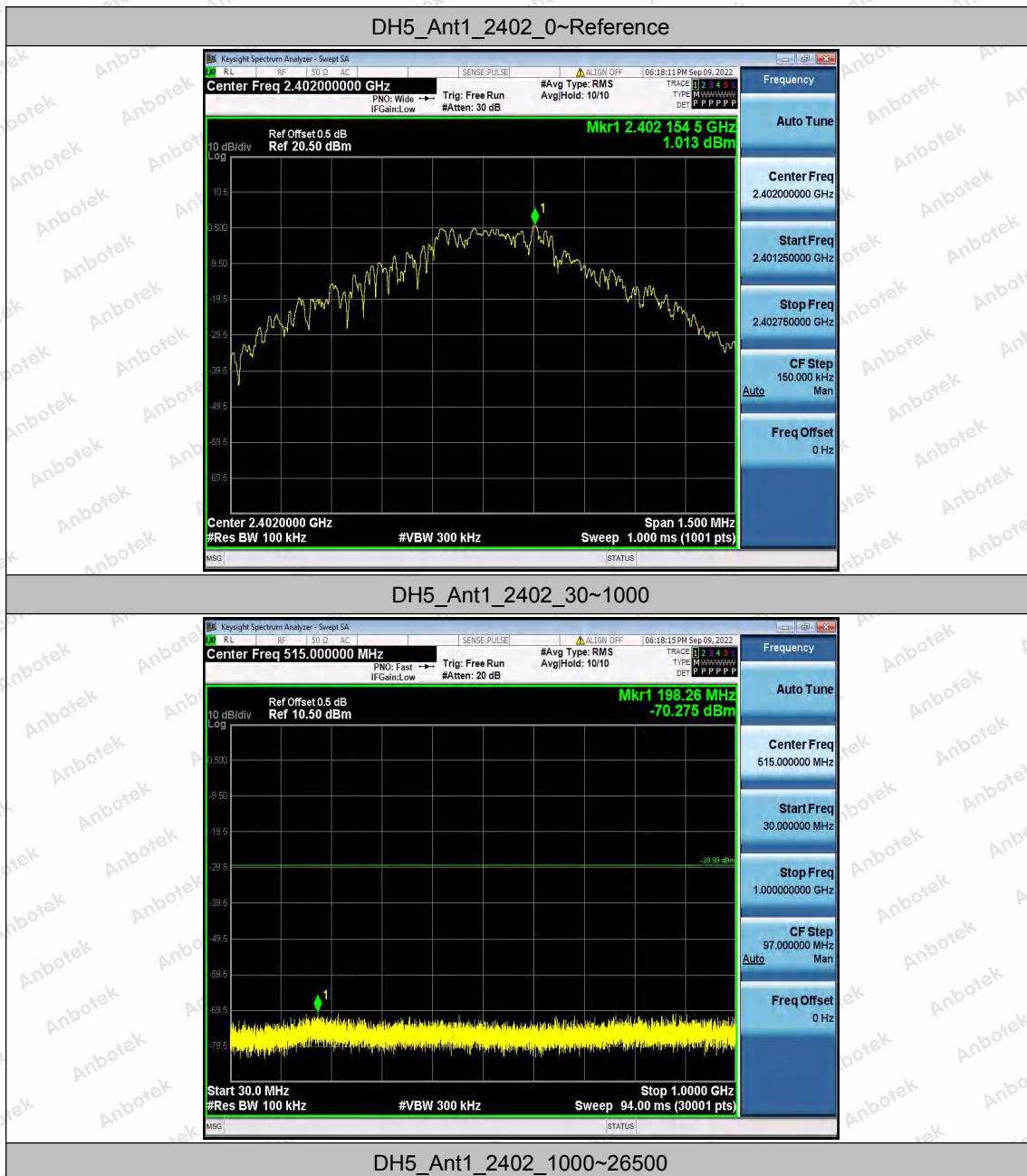
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-70.28	≤-28.99	PASS
			1000~26500	1.01	-54.11	≤-28.99	PASS
		2441	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-70.28	≤-29.74	PASS
			1000~26500	0.26	-54.43	≤-29.74	PASS
		2480	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-69.69	≤-30.69	PASS
			1000~26500	-0.69	-54.36	≤-30.69	PASS
2DH5	Ant1	2402	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-69.79	≤-33.3	PASS
			1000~26500	-3.30	-53.11	≤-33.3	PASS
		2441	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-70.22	≤-33.4	PASS
			1000~26500	-3.40	-53.18	≤-33.4	PASS
		2480	Reference	-5.23	-5.23	---	PASS
			30~1000	-5.23	-70.05	≤-35.23	PASS
			1000~26500	-5.23	-53.86	≤-35.23	PASS



Test Graphs



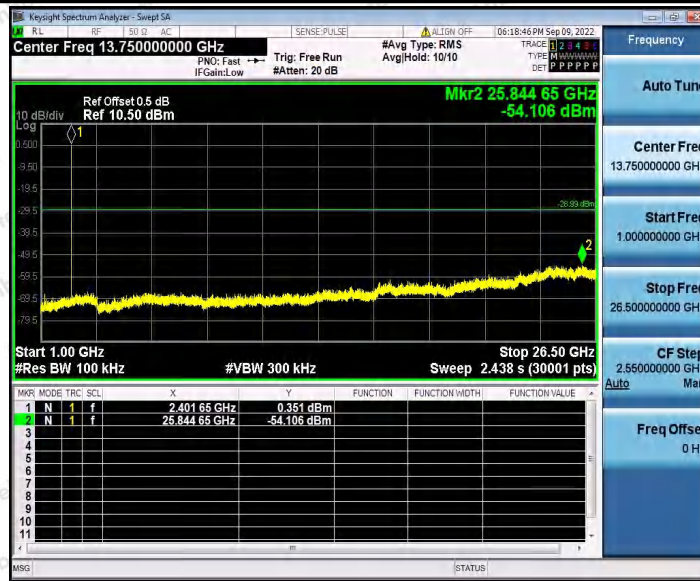
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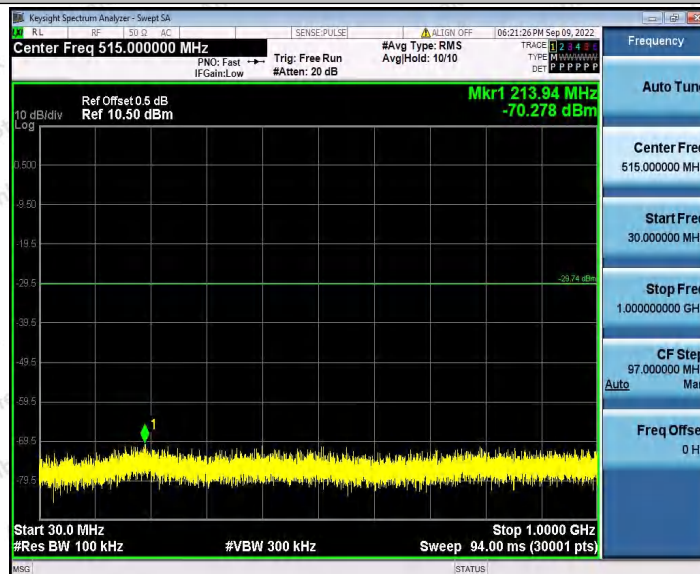




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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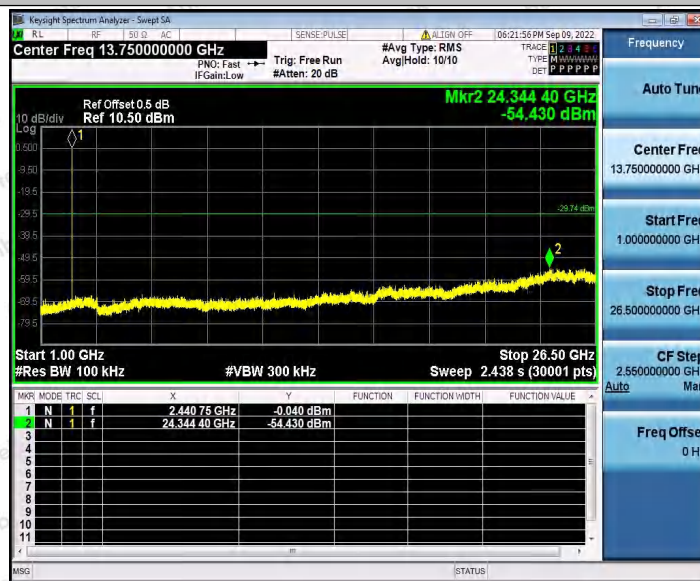
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

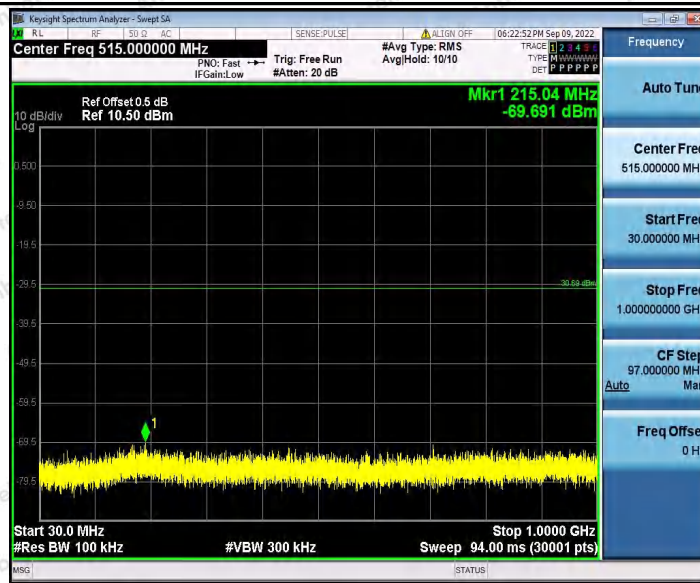
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



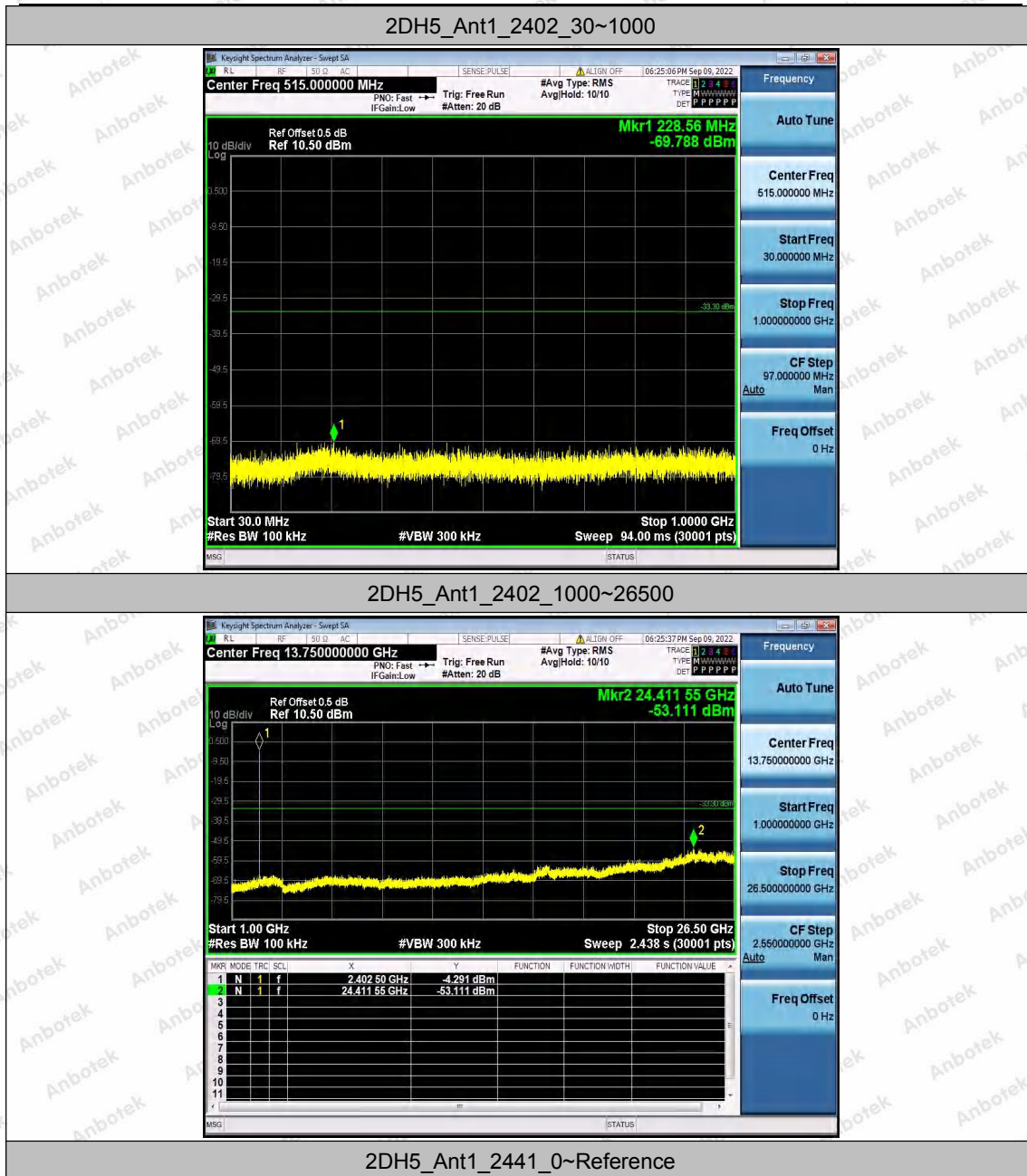
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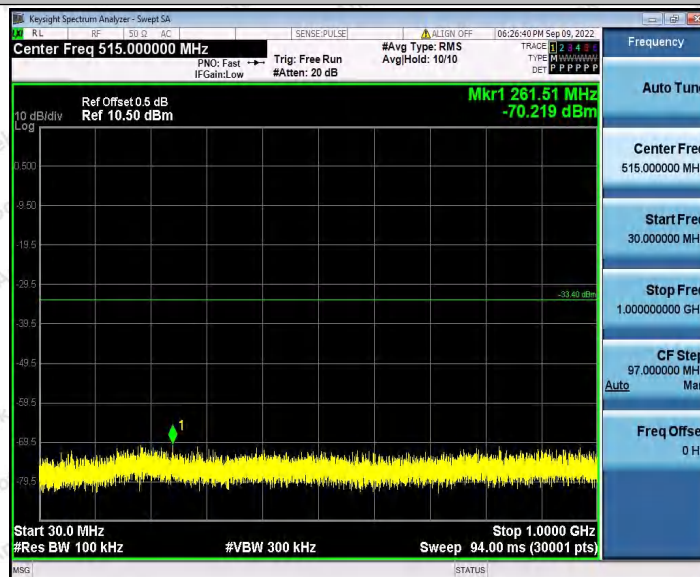


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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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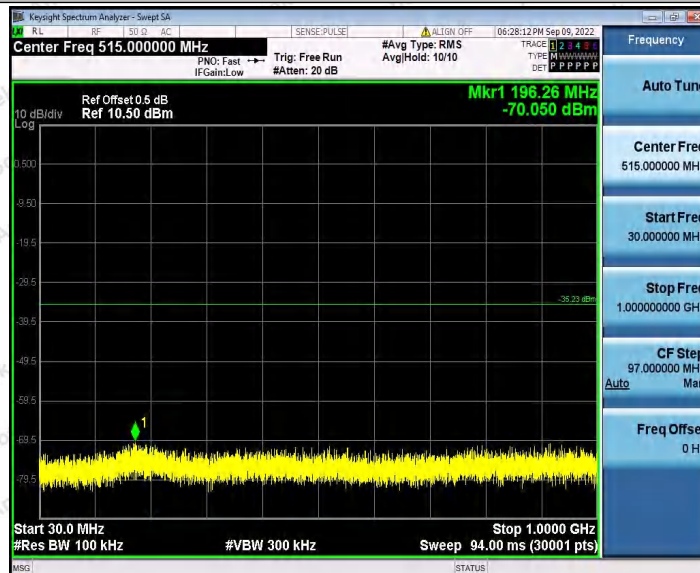
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

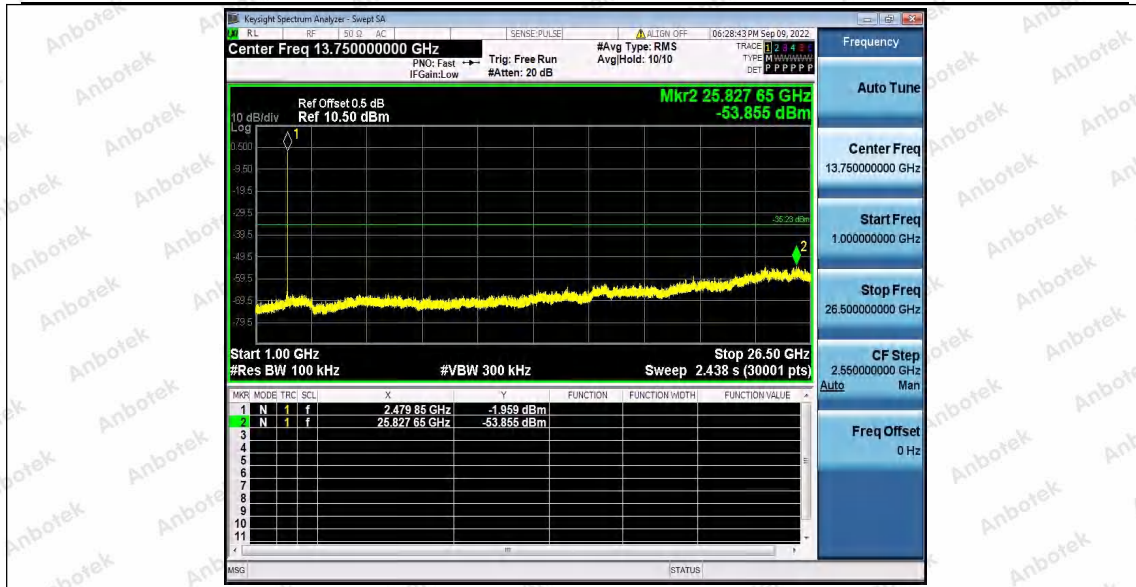
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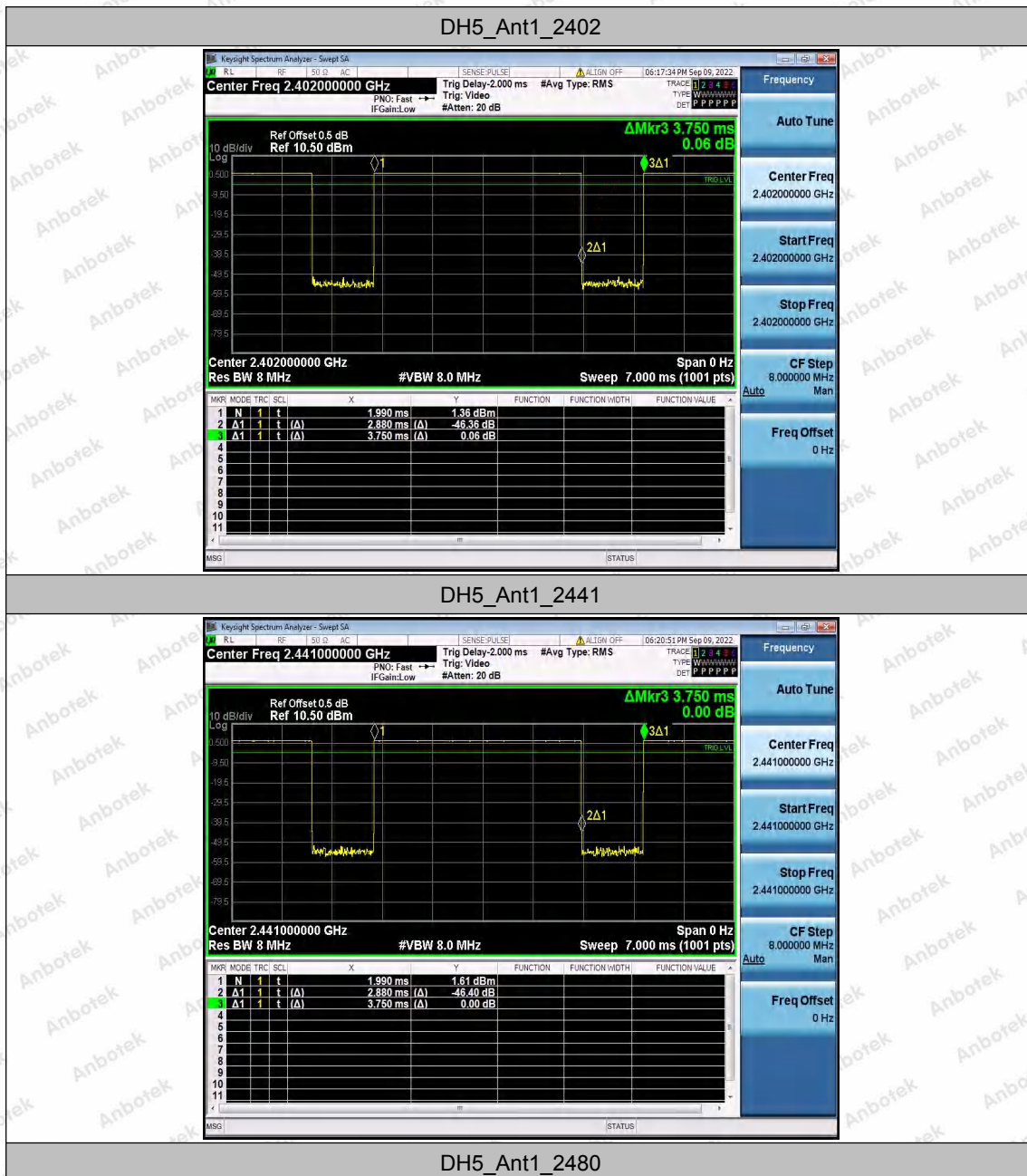
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.88	3.75	76.80	1.15
		2480	2.88	3.74	77.01	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.76	76.86	1.14
		2480	2.87	3.74	76.74	1.15



Test Graphs



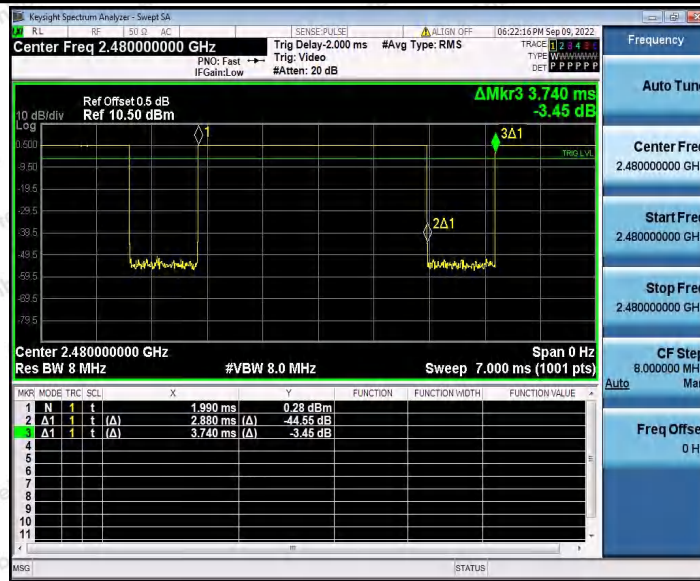
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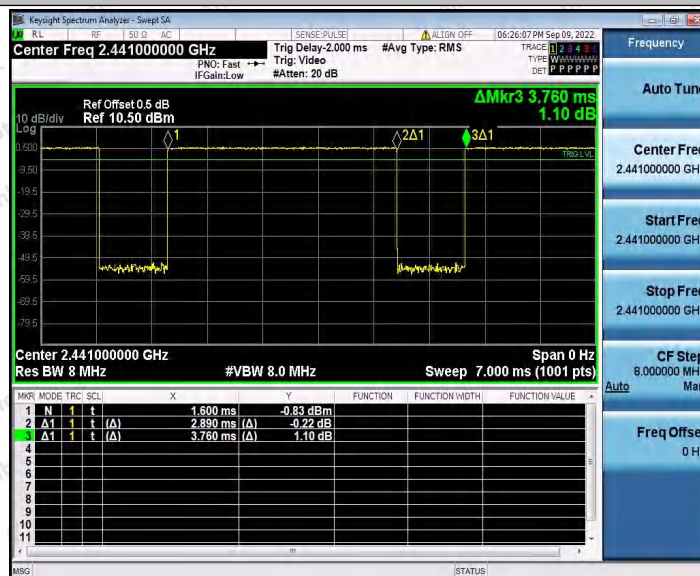




2DH5_Ant1_2402



2DH5_Ant1_2441



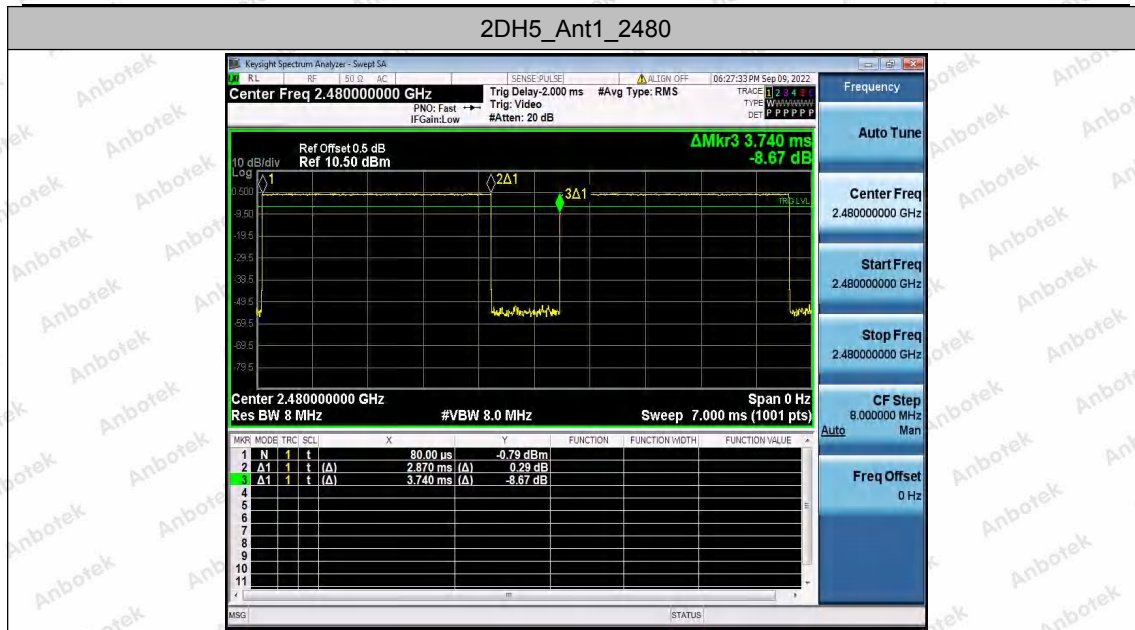
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