

Appendix Test Data

Report No.:	18220WC40081701	Test Sample No.:	1-2-2
Start Test Date:	2024.04.28	Finish Test Date:	2024.04.29
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.5℃	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.990	2401.493	2402.483	---	---
DH5	Ant1	2441	1.038	2440.481	2441.519	---	---
DH5	Ant1	2480	0.960	2479.508	2480.468	---	---
2DH5	Ant1	2402	1.320	2401.358	2402.678	---	---
2DH5	Ant1	2441	1.299	2440.367	2441.666	---	---
2DH5	Ant1	2480	1.293	2479.373	2480.666	---	---
3DH5	Ant1	2402	1.302	2401.349	2402.651	---	---
3DH5	Ant1	2441	1.302	2440.346	2441.648	---	---
3DH5	Ant1	2480	1.308	2479.337	2480.645	---	---



Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

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2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

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3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

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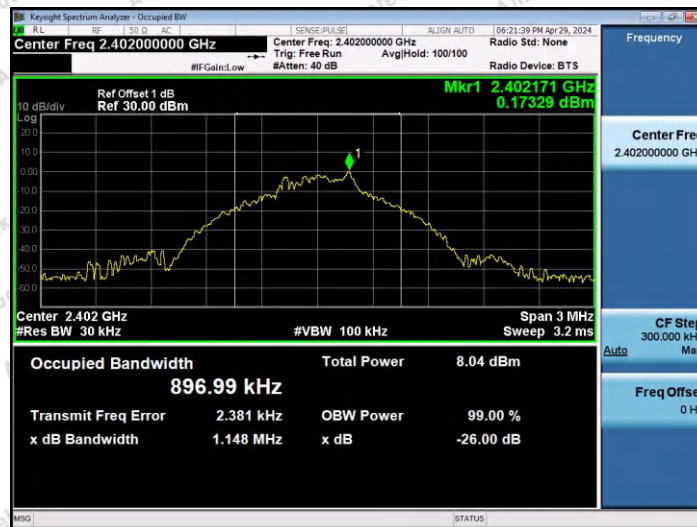
Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89699	2401.5539	2402.4509	---	---
DH5	Ant1	2441	0.89286	2440.5517	2441.4445	---	---
DH5	Ant1	2480	0.91402	2479.5347	2480.4487	---	---
2DH5	Ant1	2402	1.1933	2401.4235	2402.6168	---	---
2DH5	Ant1	2441	1.1881	2440.4182	2441.6063	---	---
2DH5	Ant1	2480	1.1923	2479.4116	2480.6039	---	---
3DH5	Ant1	2402	1.2114	2401.4061	2402.6175	---	---
3DH5	Ant1	2441	1.1945	2440.4195	2441.6140	---	---
3DH5	Ant1	2480	1.1852	2479.4158	2480.6010	---	---



Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480

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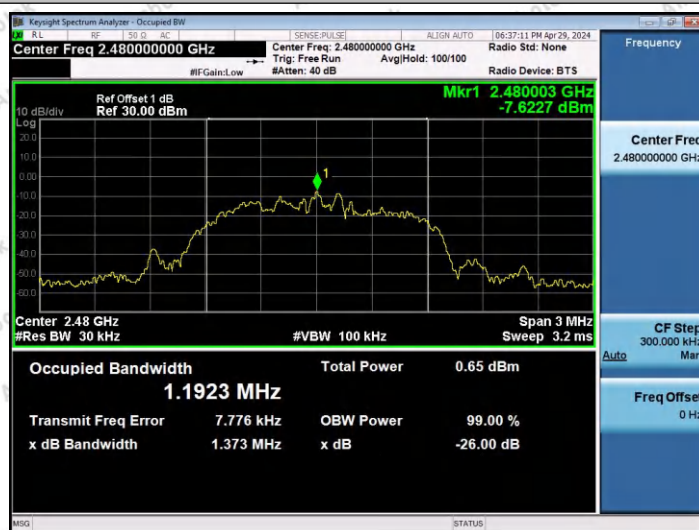




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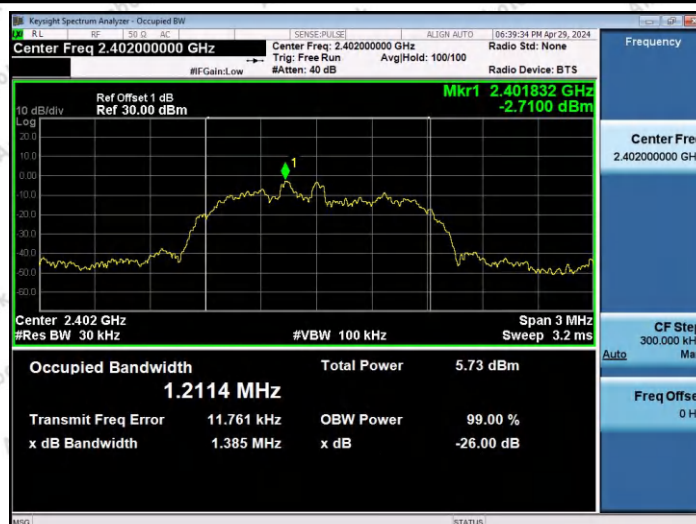


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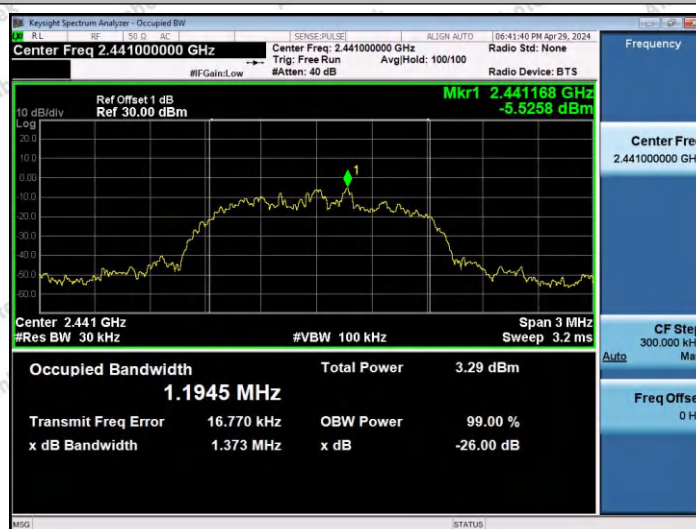


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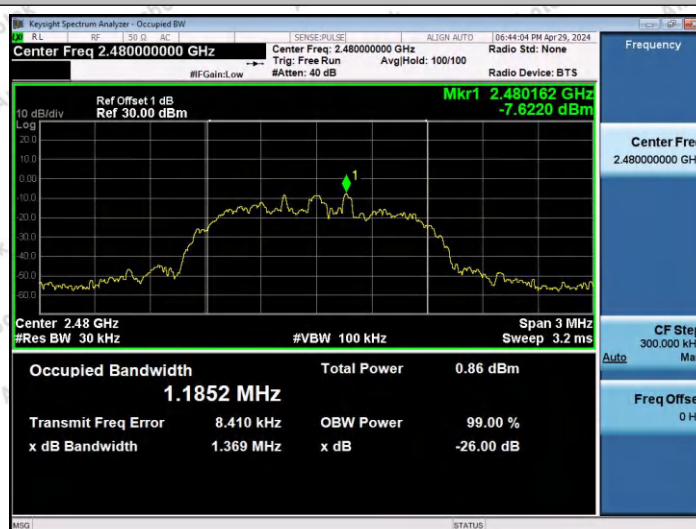




3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

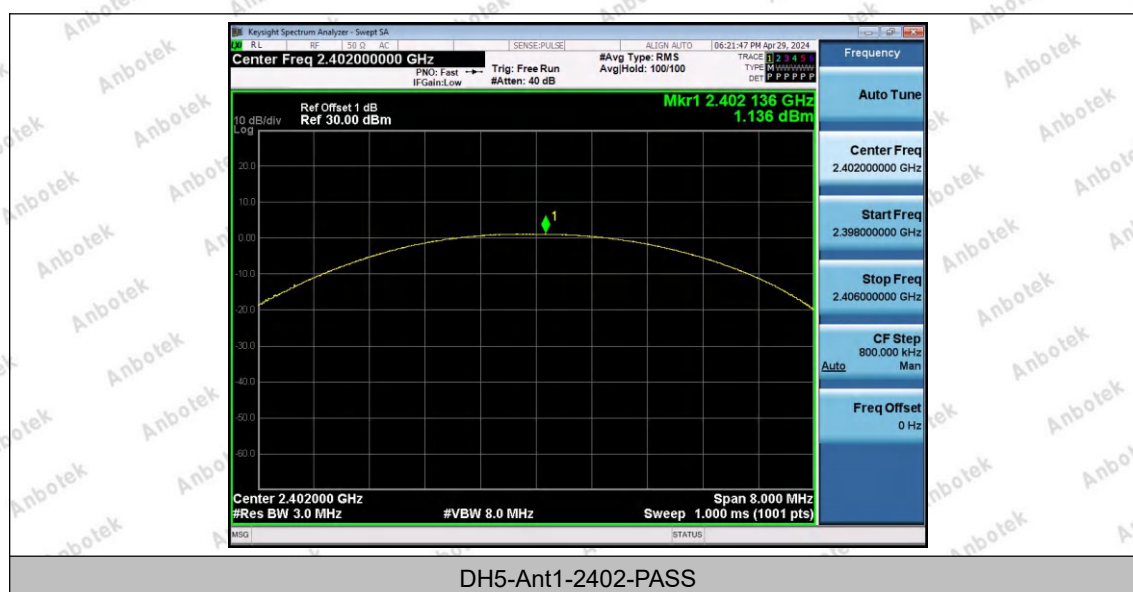


Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.14	≤20.97	PASS
DH5	Ant1	2441	-1.96	≤20.97	PASS
DH5	Ant1	2480	-4.52	≤20.97	PASS
2DH5	Ant1	2402	1.06	≤20.97	PASS
2DH5	Ant1	2441	-2.00	≤20.97	PASS
2DH5	Ant1	2480	-4.58	≤20.97	PASS
3DH5	Ant1	2402	1.12	≤20.97	PASS
3DH5	Ant1	2441	-1.87	≤20.97	PASS
3DH5	Ant1	2480	-4.55	≤20.97	PASS

Test Graphs





DH5-Ant1-2441-PASS



DH5-Ant1-2480-PASS



2DH5-Ant1-2402-PASS





2DH5-Ant1-2441-PASS



2DH5-Ant1-2480-PASS

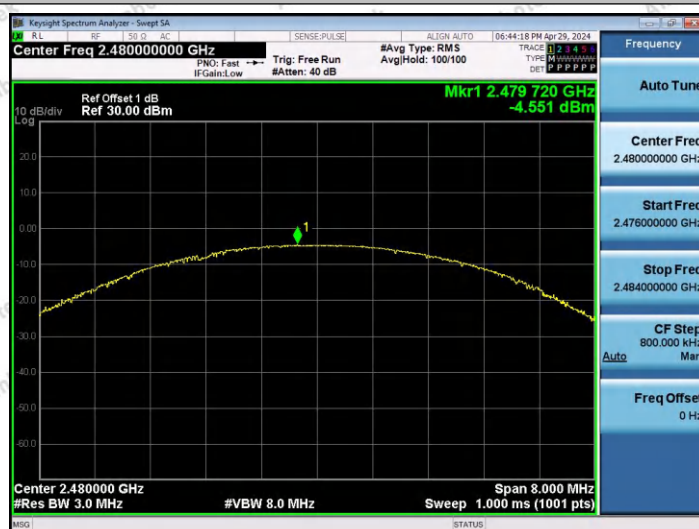


3DH5-Ant1-2402-PASS





3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.692	PASS
2DH5	Ant1	Hop	1.006	≥ 0.880	PASS
3DH5	Ant1	Hop	1.018	≥ 0.872	PASS

Test Graphs





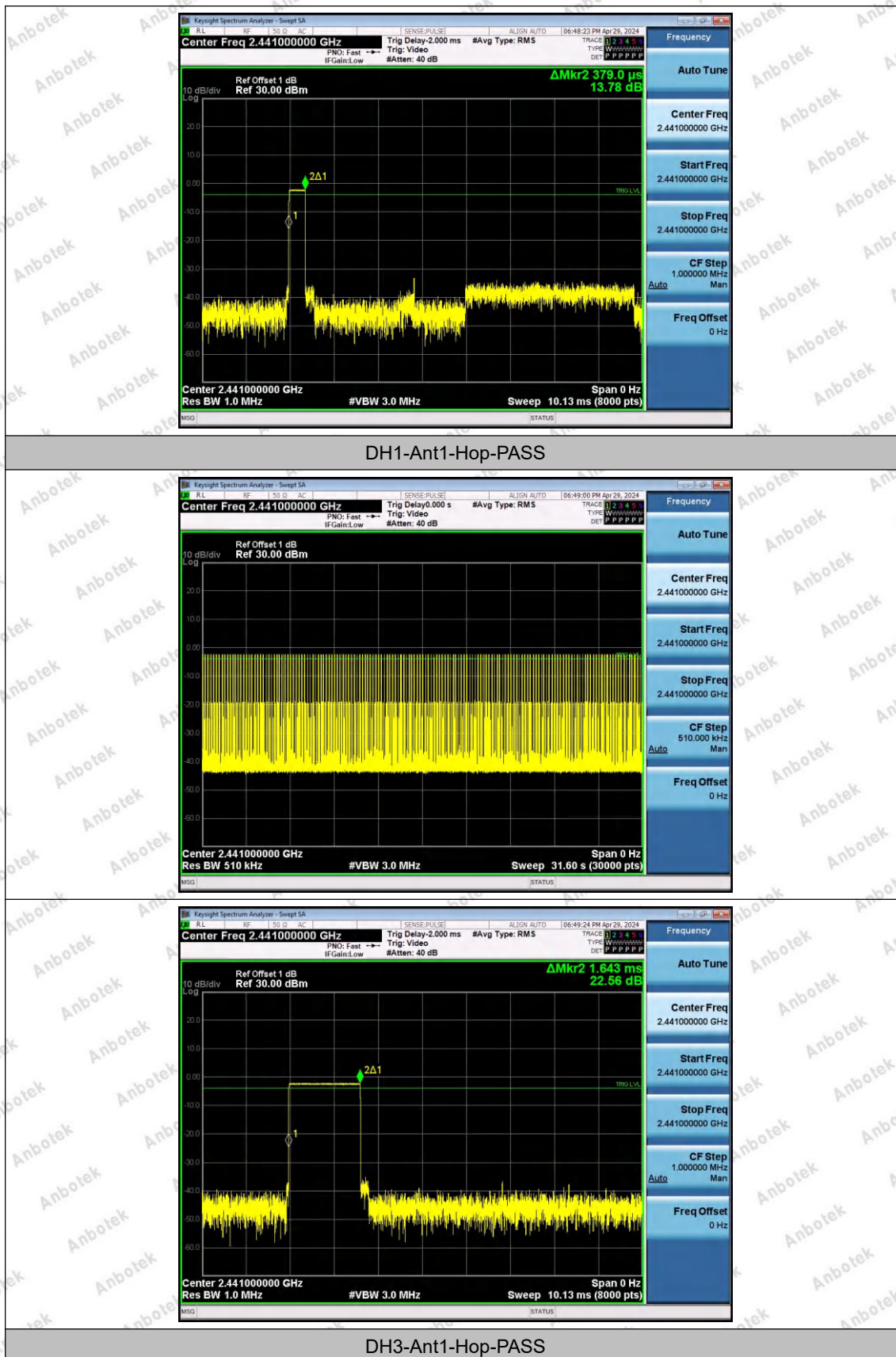
Appendix E: Dwell Time

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	312	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.643	174	0.286	≤0.4	PASS
DH5	Ant1	Hop	2.891	104	0.301	≤0.4	PASS
2DH1	Ant1	Hop	0.385	311	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.638	172	0.282	≤0.4	PASS
2DH5	Ant1	Hop	2.885	104	0.3	≤0.4	PASS
3DH1	Ant1	Hop	0.386	311	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.635	172	0.281	≤0.4	PASS
3DH5	Ant1	Hop	2.887	91	0.263	≤0.4	PASS



Test Graphs



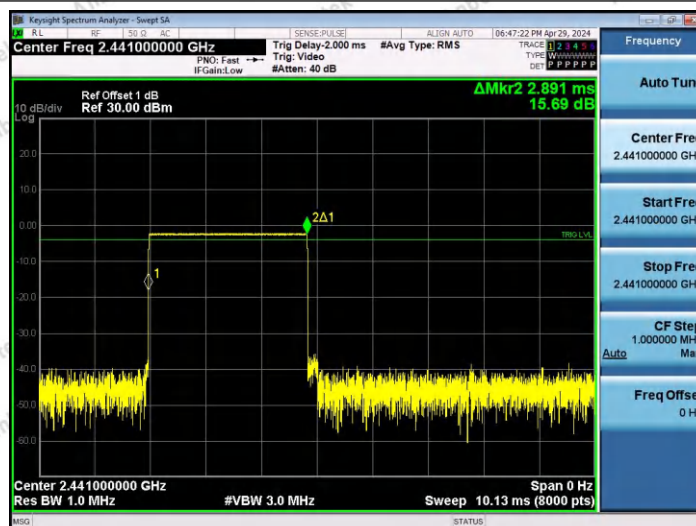
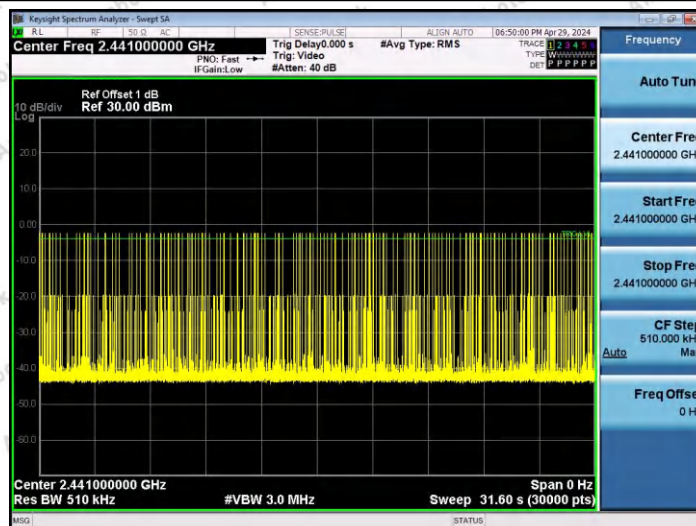
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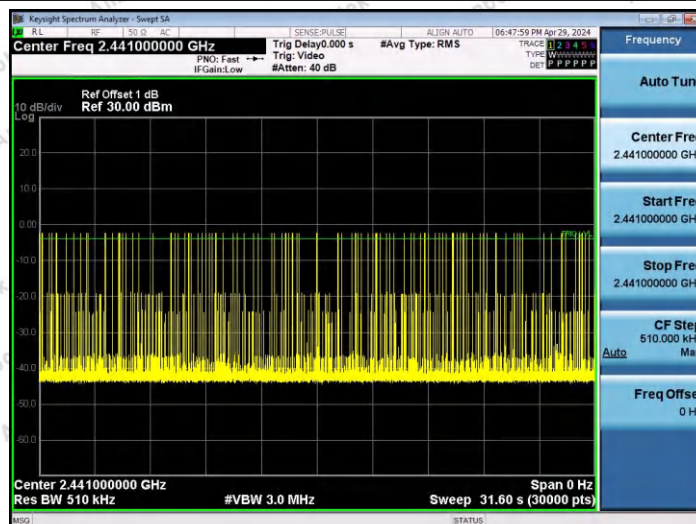


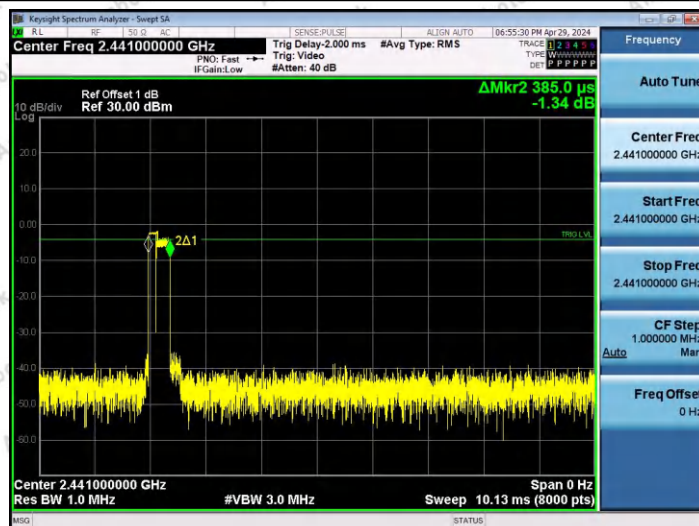
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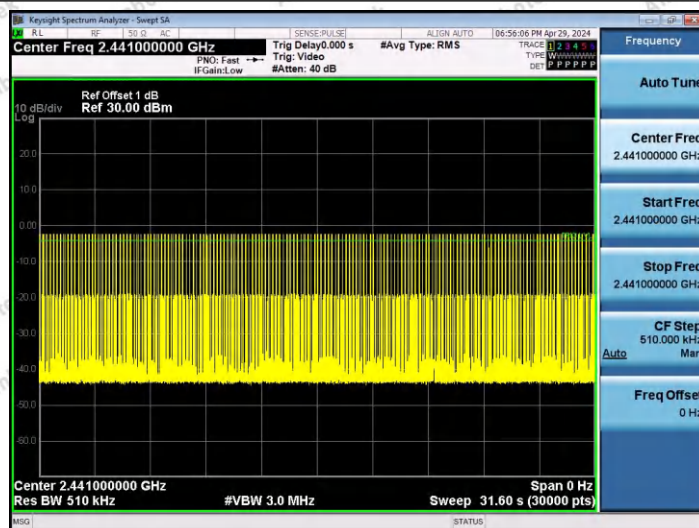


DH5-Ant1-Hop-PASS



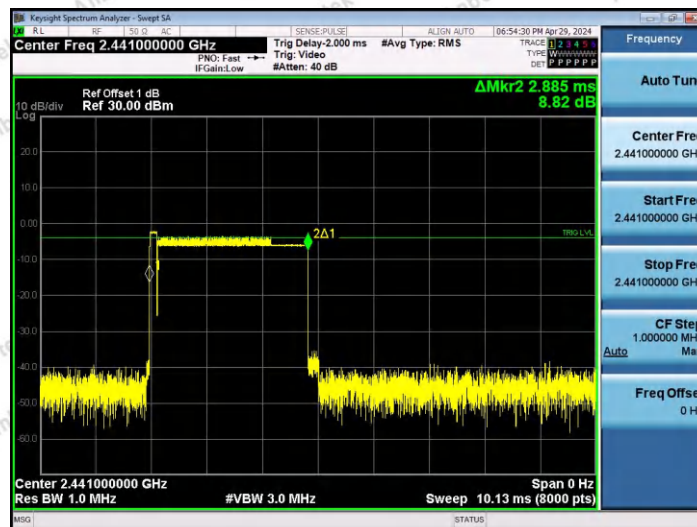
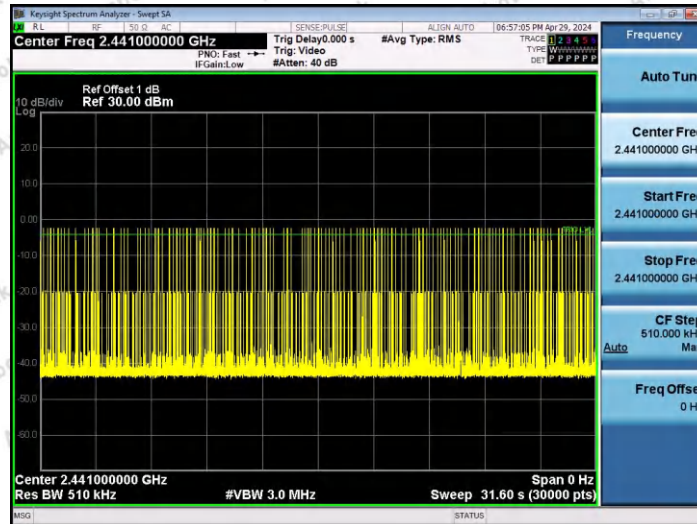


2DH1-Ant1-Hop-PASS

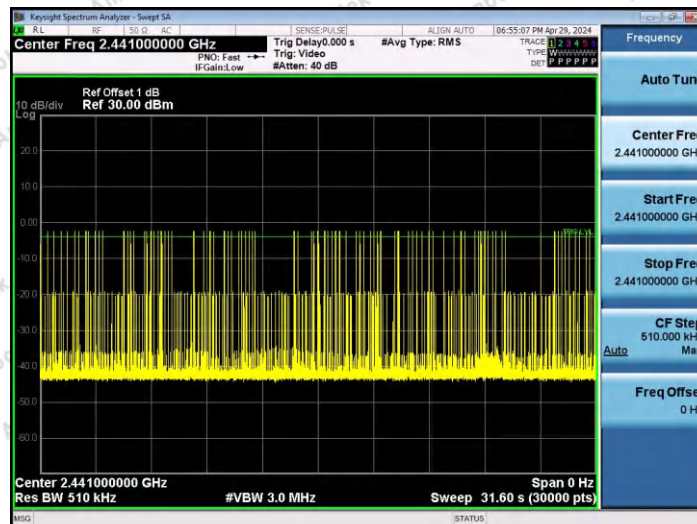


2DH3-Ant1-Hop-PASS





2DH5-Ant1-Hop-PASS



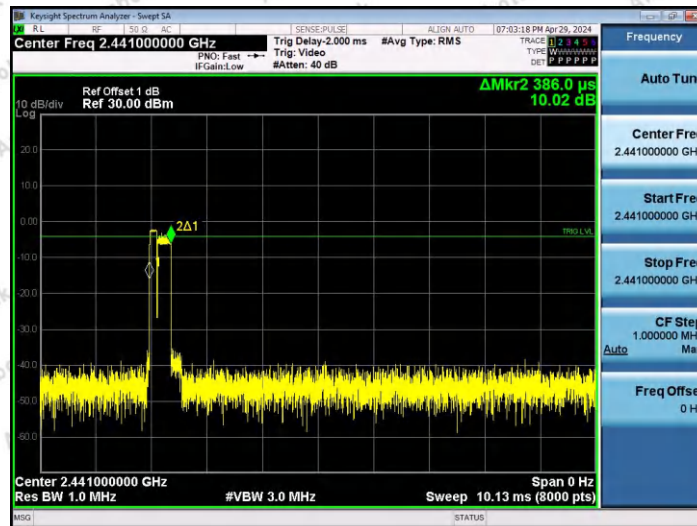
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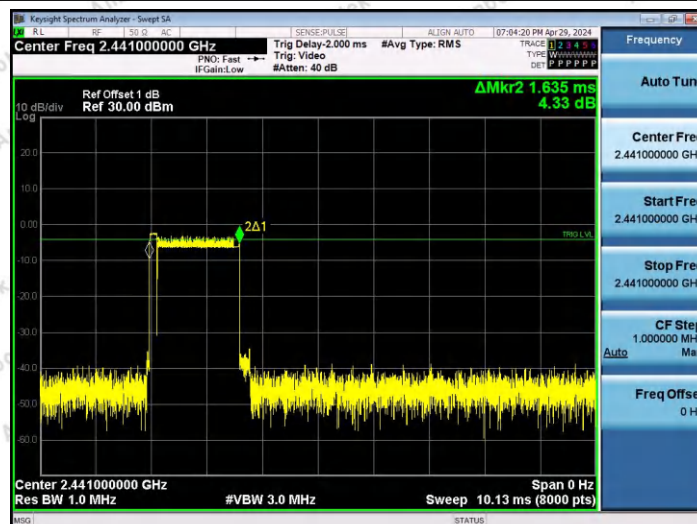
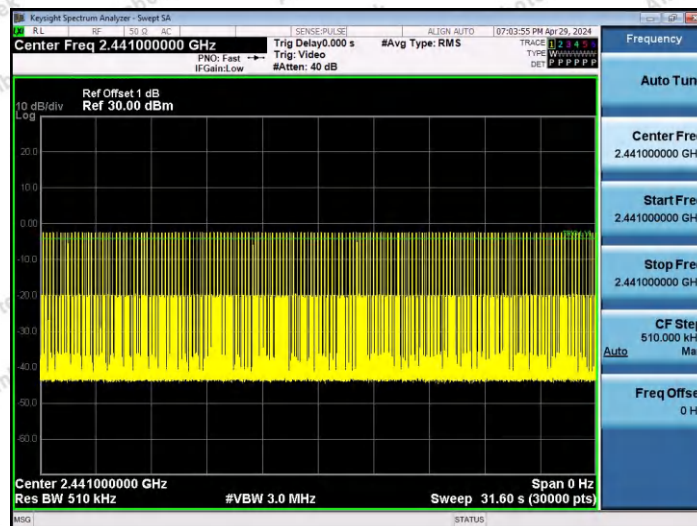


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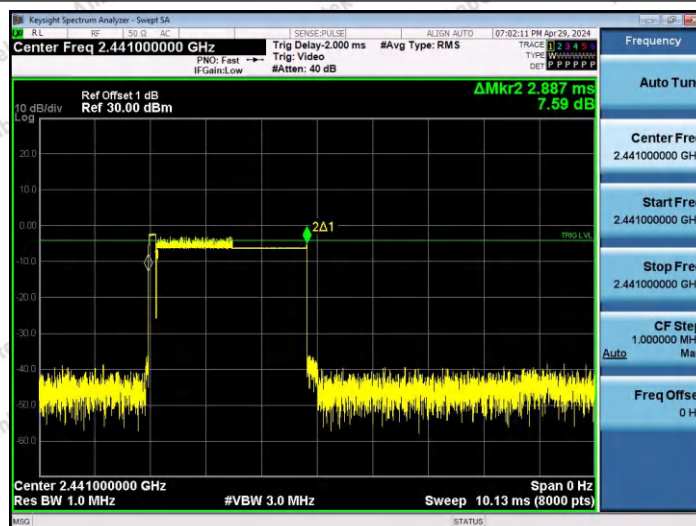
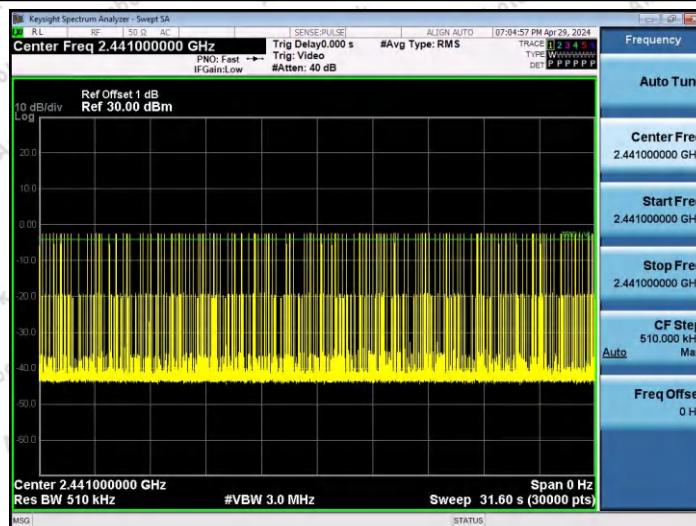


3DH1-Ant1-Hop-PASS

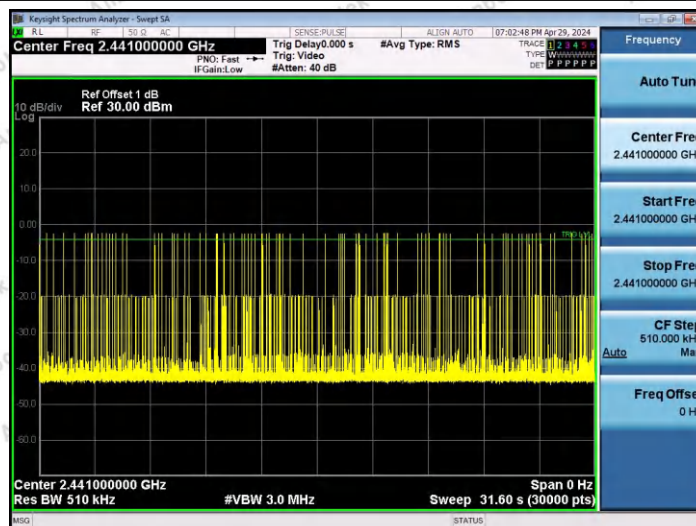


3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

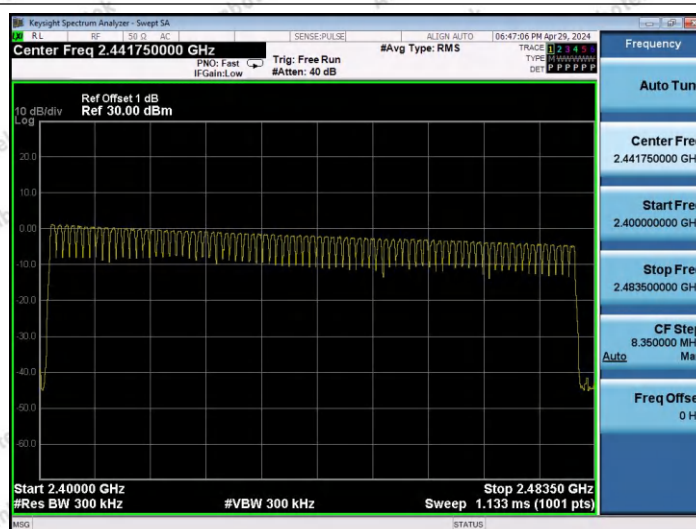


Appendix F: Number of Hopping Channel

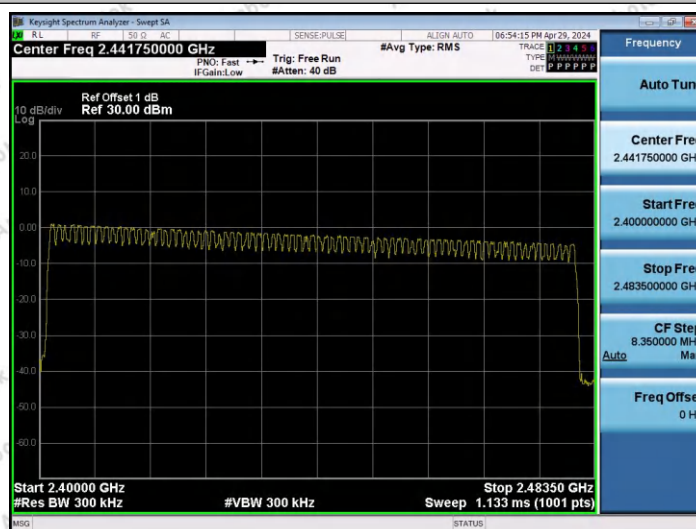
Test Result

TestMode	Antenna	Frequency[MHz]	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

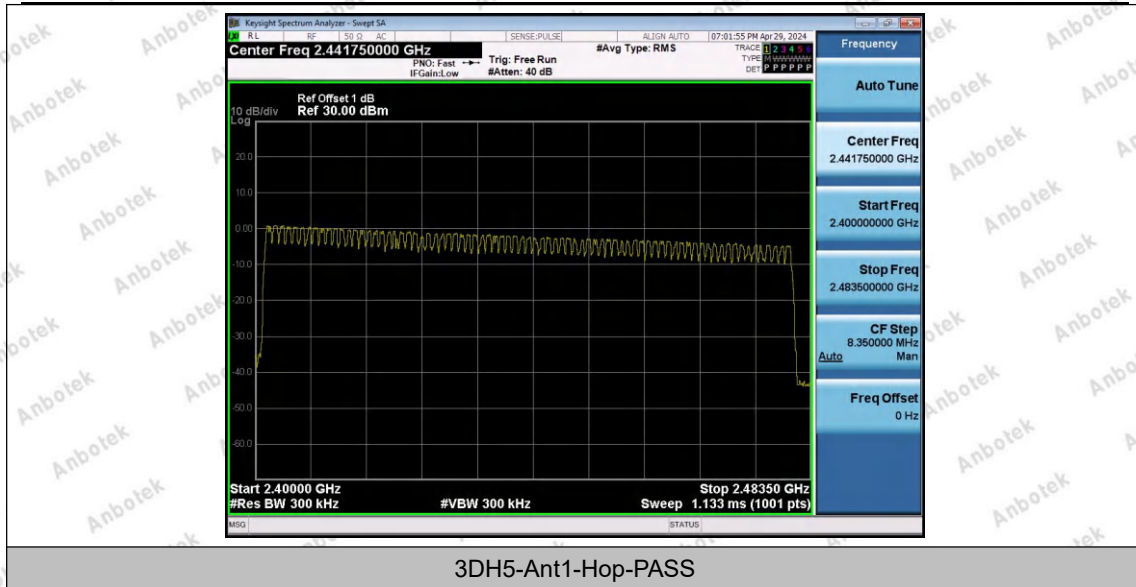


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



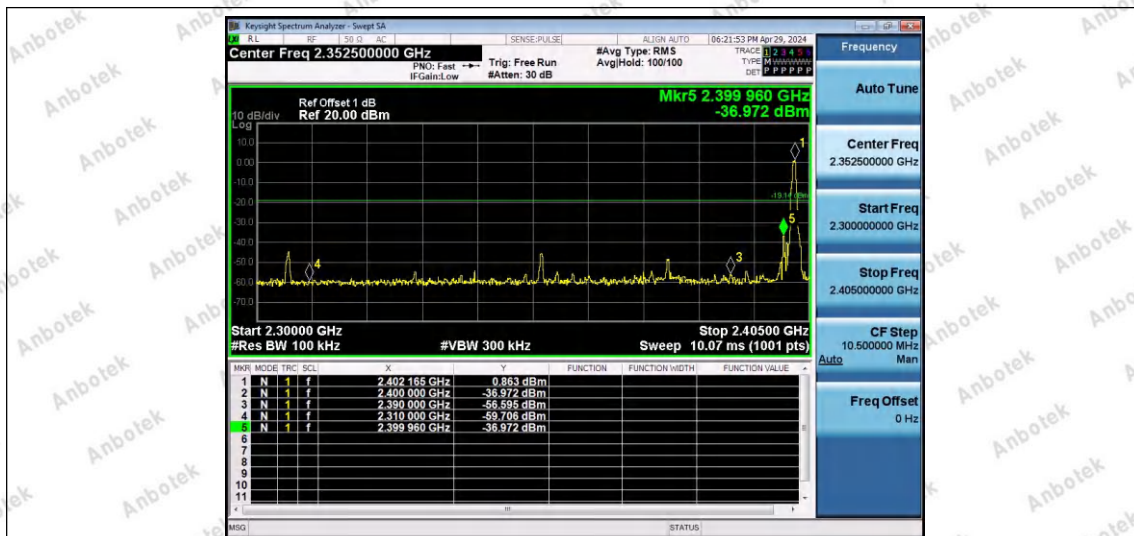
Appendix G: Conducted Band edge

Test Result

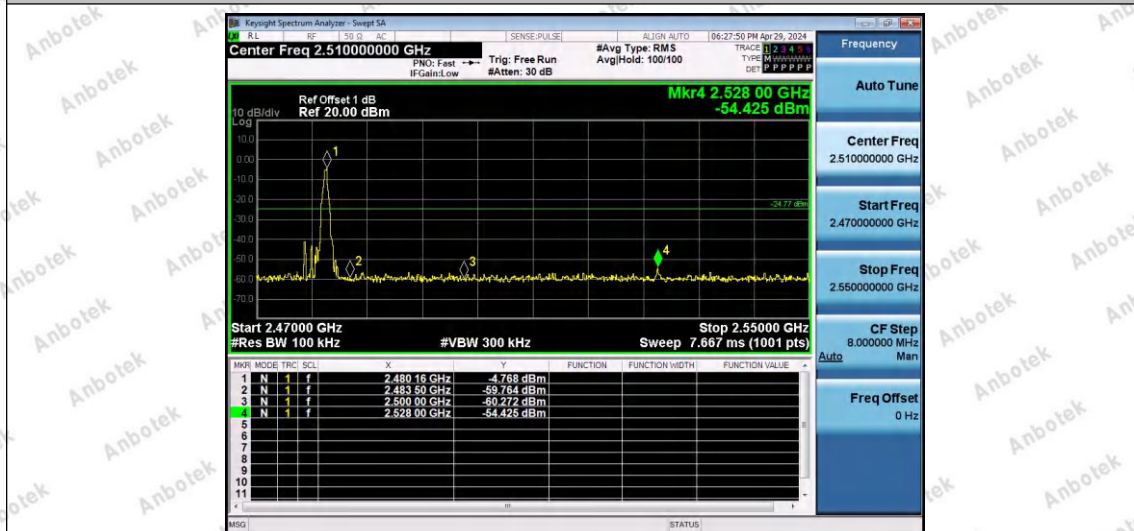
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.86	-36.97	≤-19.14	PASS
DH5	Ant1	High	2480	-4.77	-54.43	≤-24.77	PASS
DH5	Ant1	Low	Hop_2402	0.53	-38.17	≤-19.47	PASS
DH5	Ant1	High	Hop_2480	-4.28	-49.26	≤-24.28	PASS
2DH5	Ant1	Low	2402	0.17	-37.72	≤-19.83	PASS
2DH5	Ant1	High	2480	-5.56	-56.76	≤-25.56	PASS
2DH5	Ant1	Low	Hop_2402	-3.29	-37.22	≤-23.29	PASS
2DH5	Ant1	High	Hop_2480	-6.33	-51.38	≤-26.33	PASS
3DH5	Ant1	Low	2402	0.84	-37.48	≤-19.17	PASS
3DH5	Ant1	High	2480	-5.27	-56.58	≤-25.27	PASS
3DH5	Ant1	Low	Hop_2402	-0.64	-39.97	≤-20.64	PASS
3DH5	Ant1	High	Hop_2480	-4.66	-51.49	≤-24.66	PASS



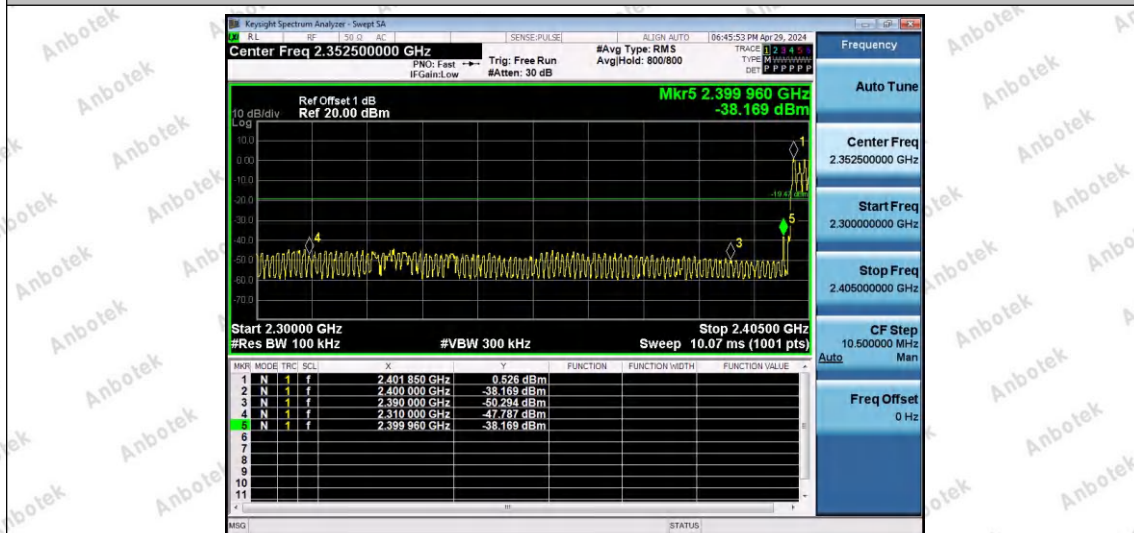
Test Graphs



DH5-Ant1-2402-PASS



DH5-Ant1-2480-PASS



DH5-Ant1-Hop_2402-PASS

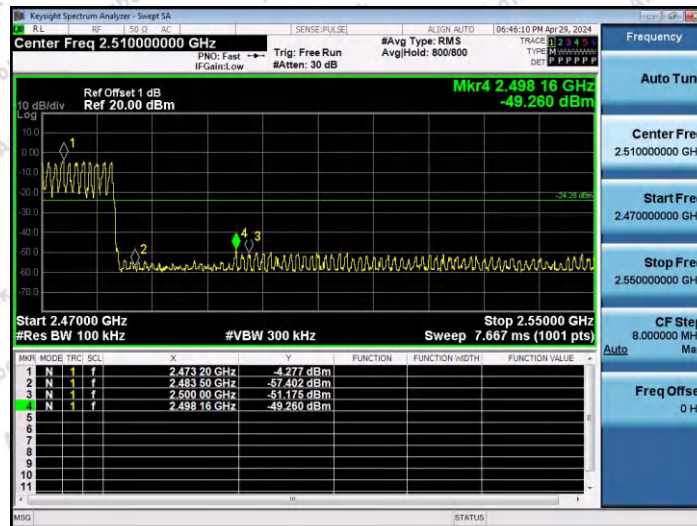
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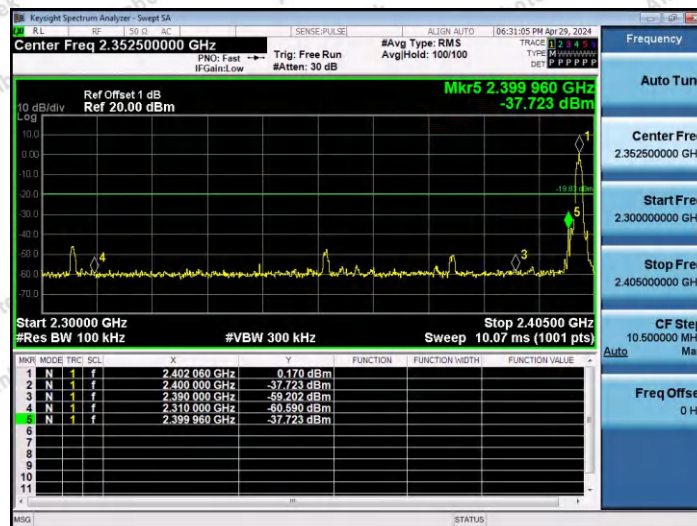


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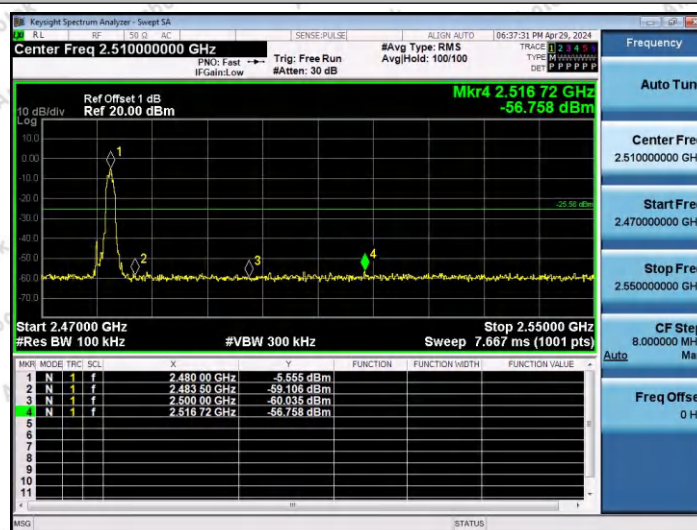




DH5-Ant1-Hop_2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS

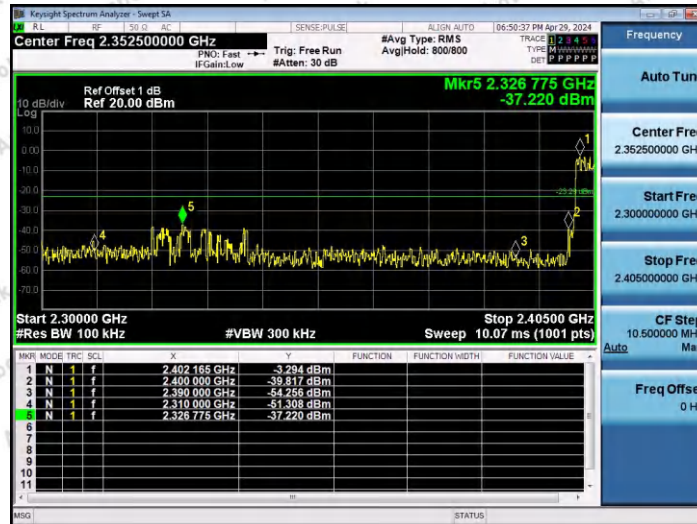
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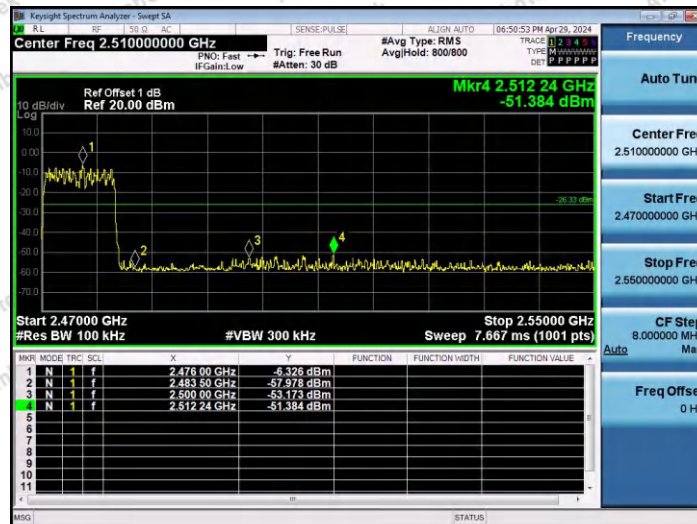


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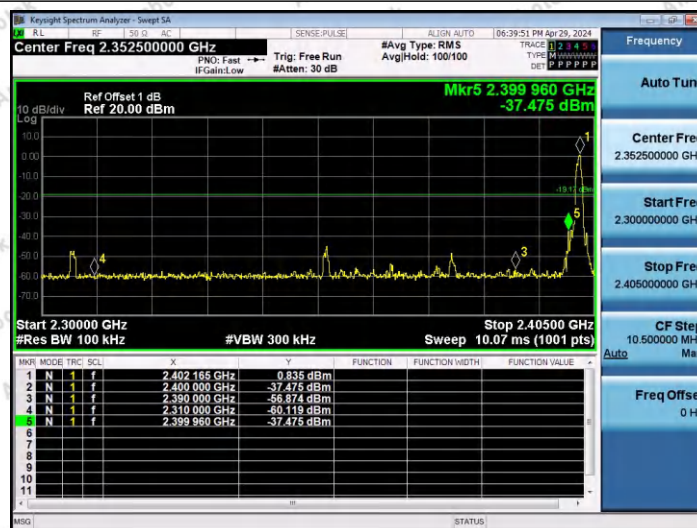




2DH5-Ant1-Hop_2402-PASS

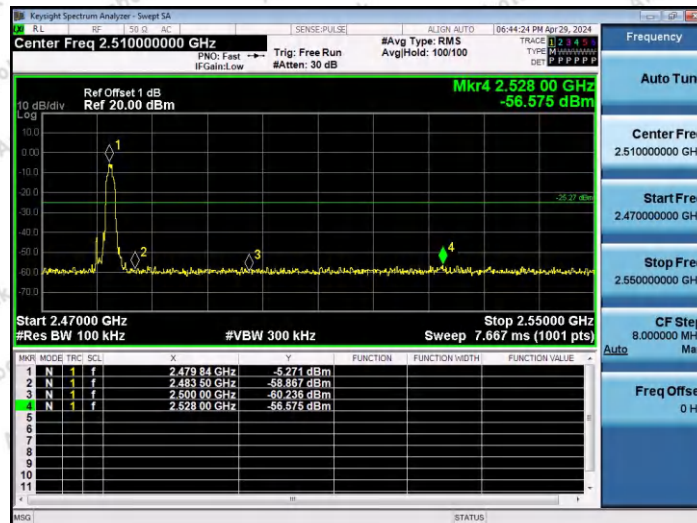


2DH5-Ant1-Hop_2480-PASS

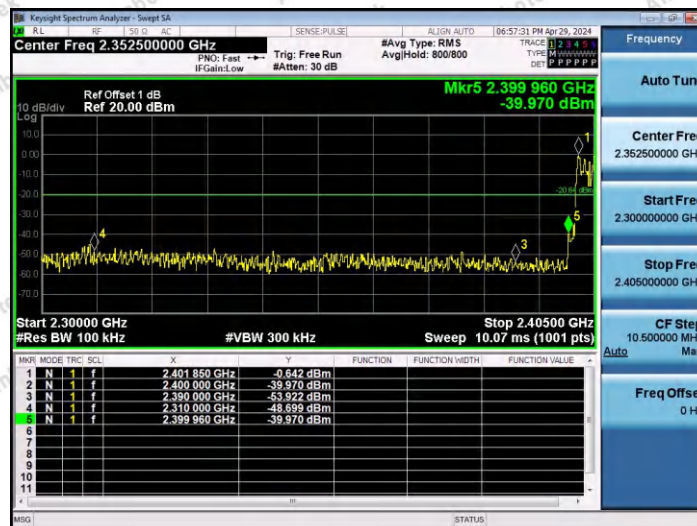


3DH5-Ant1-2402-PASS

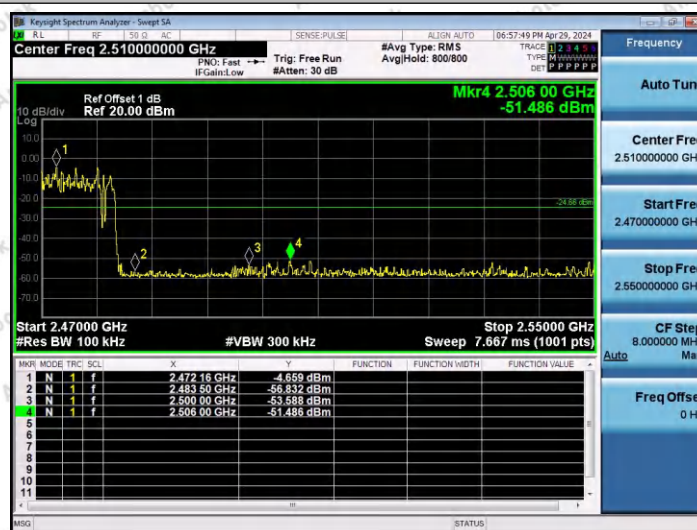




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

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Appendix H: Conducted Spurious Emission

Test Result

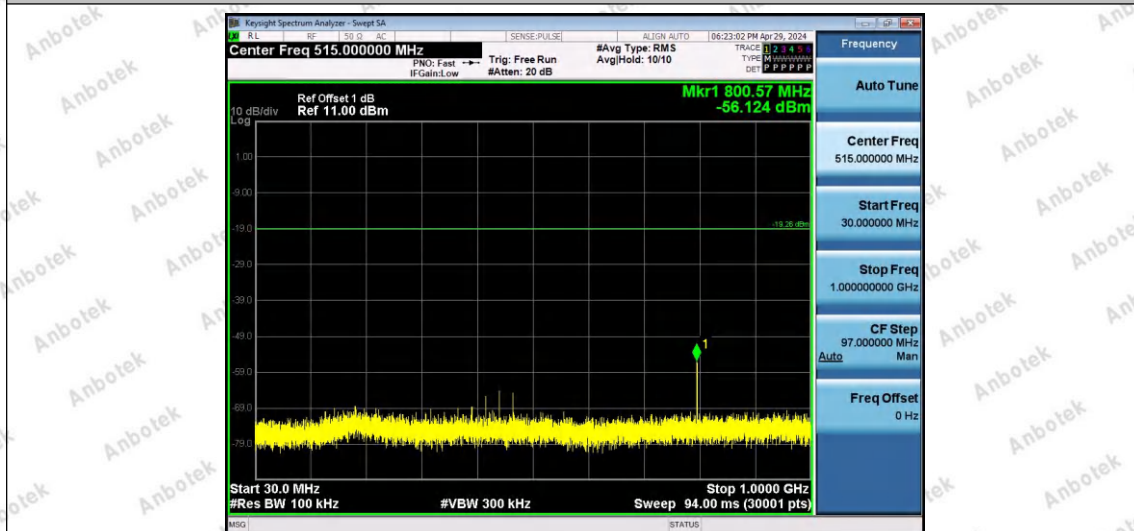
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DH5	Ant1	2402	0~Reference	0.74	0.74	---	PASS
DH5	Ant1	2402	30~1000	0.74	-56.12	≤-19.26	PASS
DH5	Ant1	2402	1000~26500	0.74	-33.4	≤-19.26	PASS
DH5	Ant1	2441	0~Reference	-2.30	-2.30	---	PASS
DH5	Ant1	2441	30~1000	-2.30	-57.49	≤-22.3	PASS
DH5	Ant1	2441	1000~26500	-2.30	-35.94	≤-22.3	PASS
DH5	Ant1	2480	0~Reference	-4.84	-4.84	---	PASS
DH5	Ant1	2480	30~1000	-4.84	-59.08	≤-24.84	PASS
DH5	Ant1	2480	1000~26500	-4.84	-39.82	≤-24.84	PASS
2DH5	Ant1	2402	0~Reference	0.77	0.77	---	PASS
2DH5	Ant1	2402	30~1000	0.77	-58.09	≤-19.23	PASS
2DH5	Ant1	2402	1000~26500	0.77	-34.73	≤-19.23	PASS
2DH5	Ant1	2441	0~Reference	-2.26	-2.26	---	PASS
2DH5	Ant1	2441	30~1000	-2.26	-57.92	≤-22.26	PASS
2DH5	Ant1	2441	1000~26500	-2.26	-41.38	≤-22.26	PASS
2DH5	Ant1	2480	0~Reference	-4.85	-4.85	---	PASS
2DH5	Ant1	2480	30~1000	-4.85	-59.63	≤-24.85	PASS
2DH5	Ant1	2480	1000~26500	-4.85	-44.26	≤-24.85	PASS
3DH5	Ant1	2402	0~Reference	0.85	0.85	---	PASS
3DH5	Ant1	2402	30~1000	0.85	-59	≤-19.15	PASS
3DH5	Ant1	2402	1000~26500	0.85	-36.5	≤-19.15	PASS
3DH5	Ant1	2441	0~Reference	-2.25	-2.25	---	PASS
3DH5	Ant1	2441	30~1000	-2.25	-59.86	≤-22.25	PASS
3DH5	Ant1	2441	1000~26500	-2.25	-40.96	≤-22.25	PASS
3DH5	Ant1	2480	0~Reference	-4.82	-4.82	---	PASS
3DH5	Ant1	2480	30~1000	-4.82	-61.59	≤-24.82	PASS
3DH5	Ant1	2480	1000~26500	-4.82	-42.24	≤-24.82	PASS



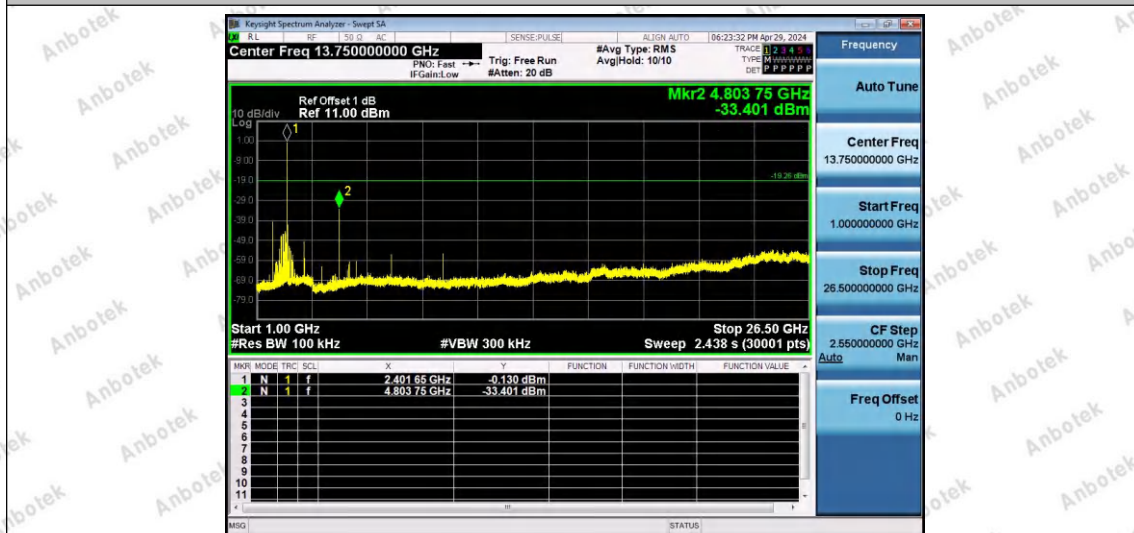
Test Graphs



DH5-Ant1-2402-0~Reference-PASS



DH5-Ant1-2402-30~1000-PASS



DH5-Ant1-2402-1000~26500-PASS

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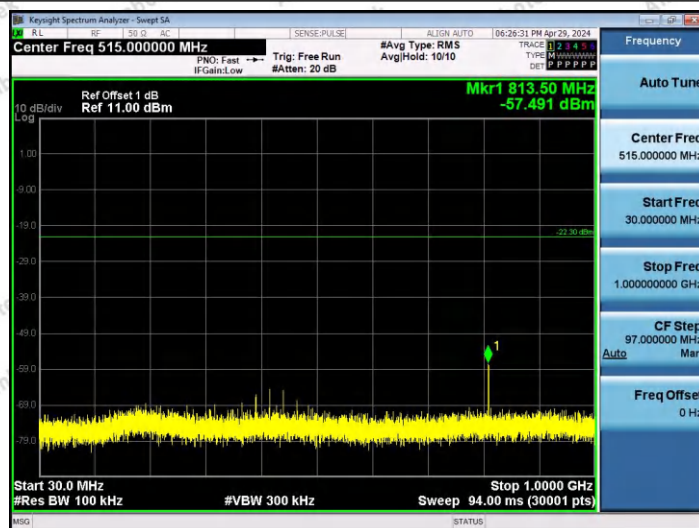


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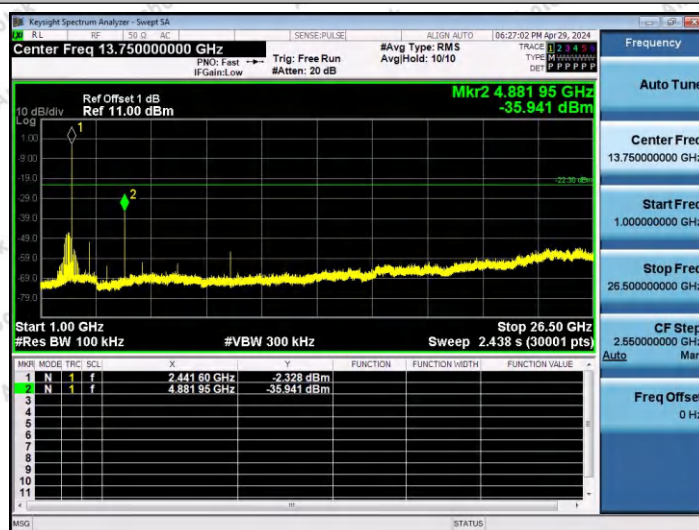




DH5-Ant1-2441-0~Reference-PASS



DH5-Ant1-2441-30~1000-PASS

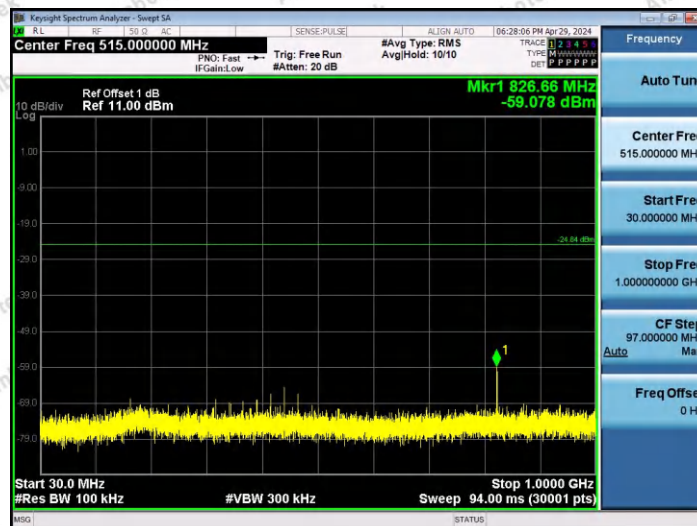


DH5-Ant1-2441-1000~26500-PASS

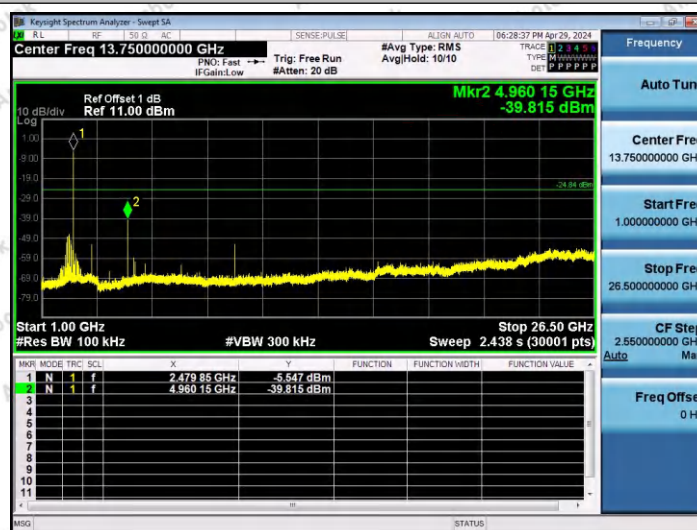




DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS



DH5-Ant1-2480-1000~26500-PASS

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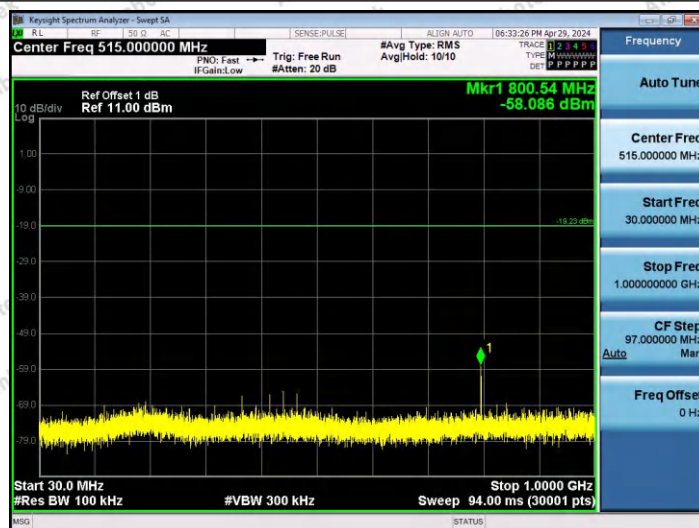


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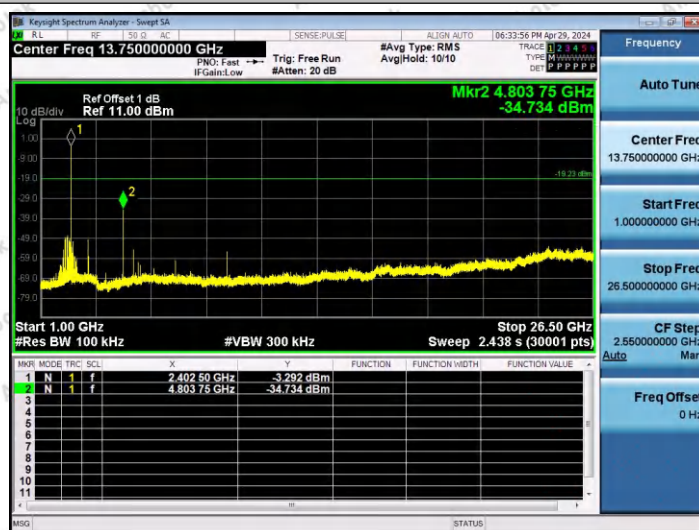




2DH5-Ant1-2402-0~Reference-PASS



2DH5-Ant1-2402-30~1000-PASS

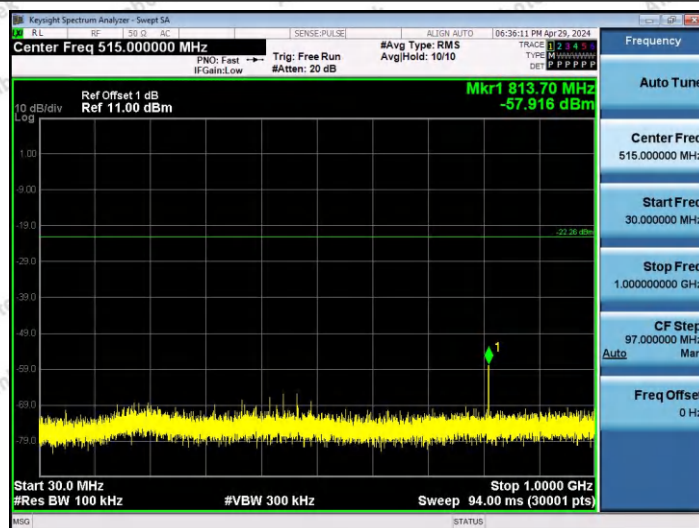


2DH5-Ant1-2402-1000~26500-PASS

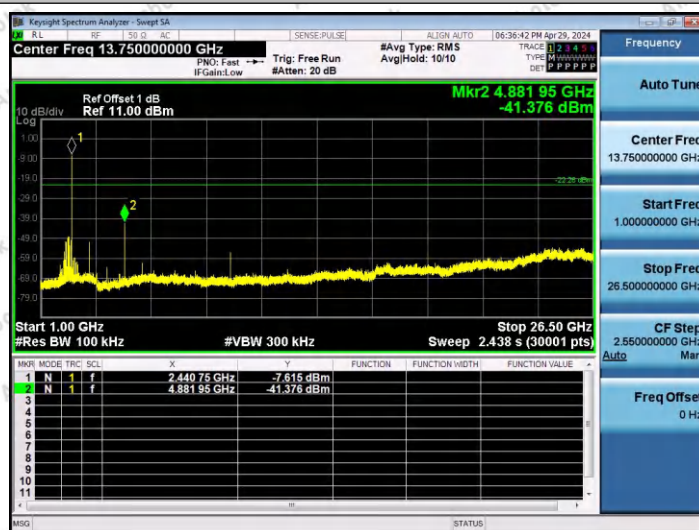




2DH5-Ant1-2441-0~Reference-PASS



2DH5-Ant1-2441-30~1000-PASS

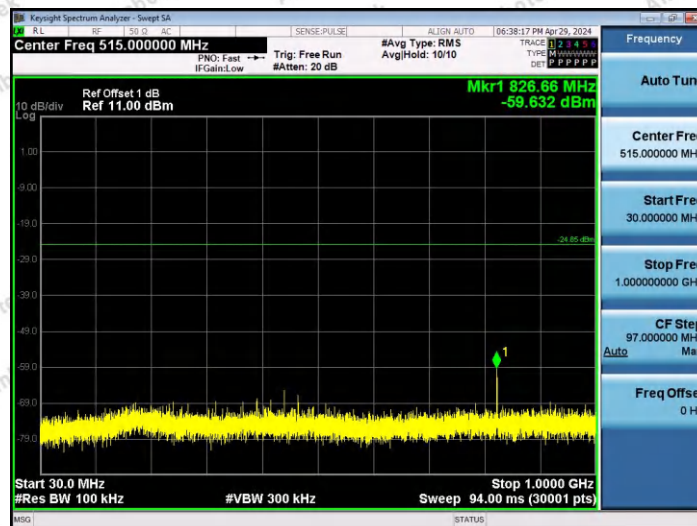


2DH5-Ant1-2441-1000~26500-PASS

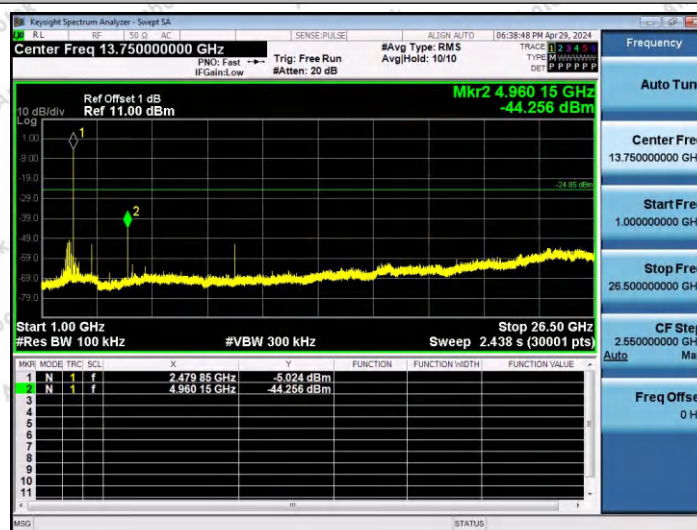




2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS



2DH5-Ant1-2480-1000~26500-PASS

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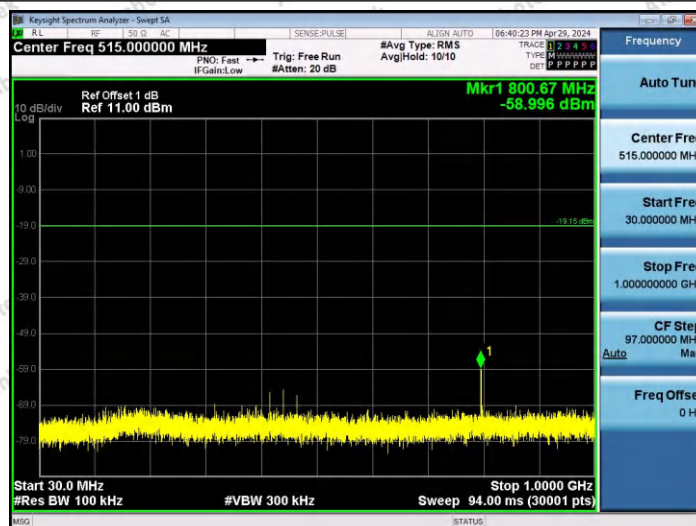


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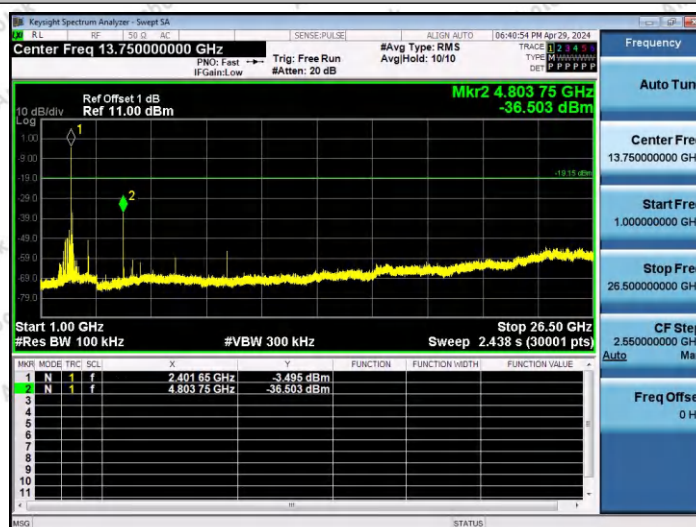




3DH5-Ant1-2402-0~Reference-PASS



3DH5-Ant1-2402-30~1000-PASS

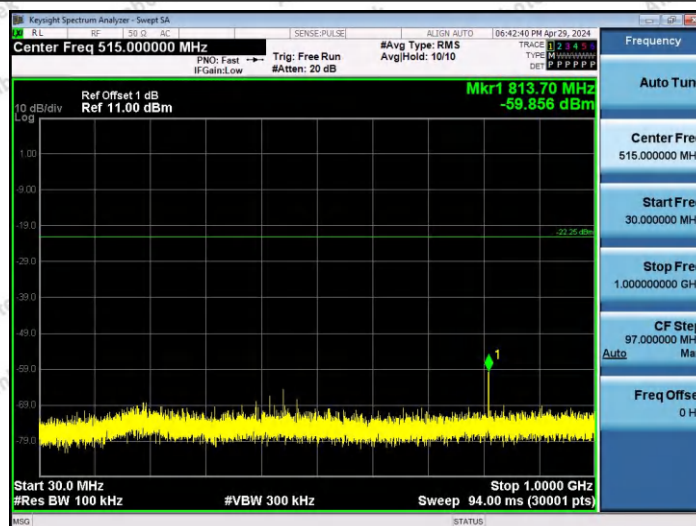


3DH5-Ant1-2402-1000~26500-PASS

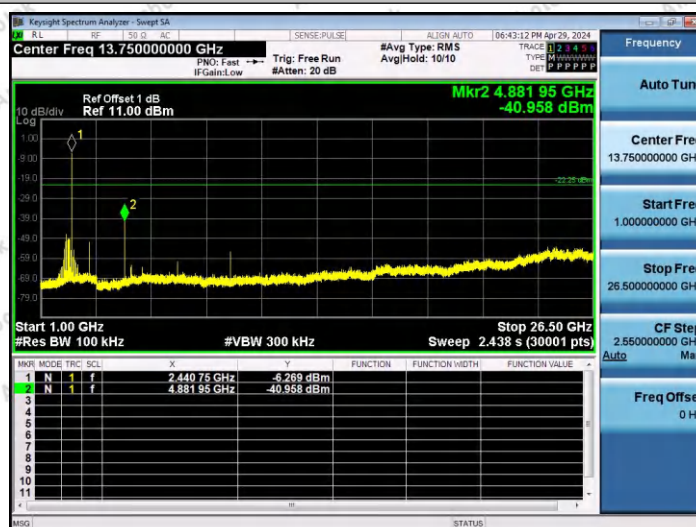




3DH5-Ant1-2441-0~Reference-PASS



3DH5-Ant1-2441-30~1000-PASS

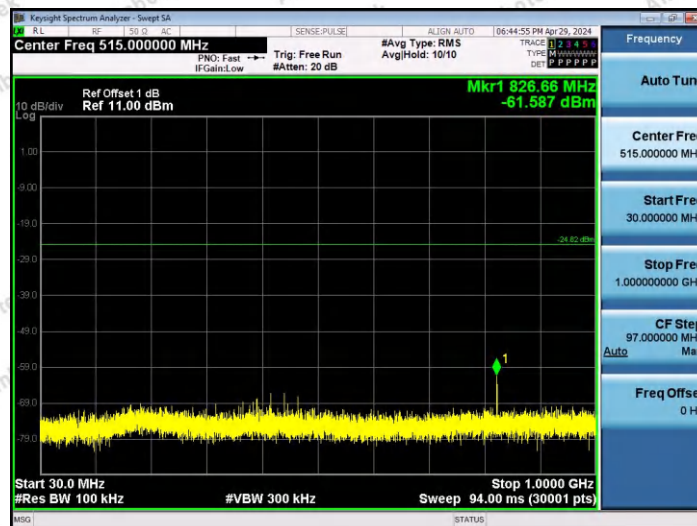


3DH5-Ant1-2441-1000~26500-PASS

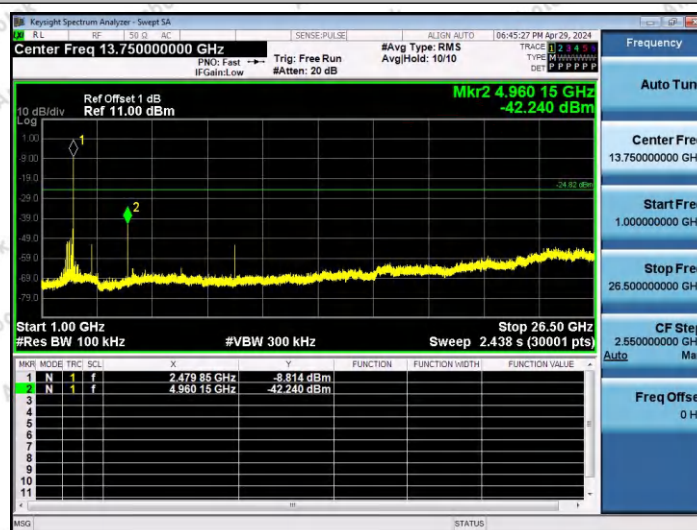




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS

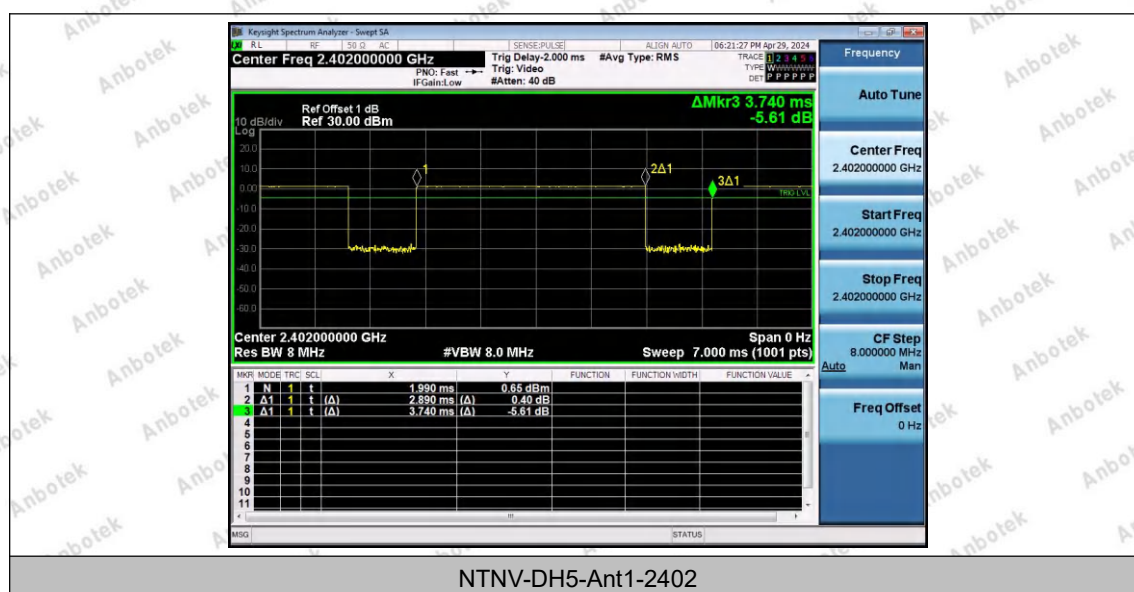


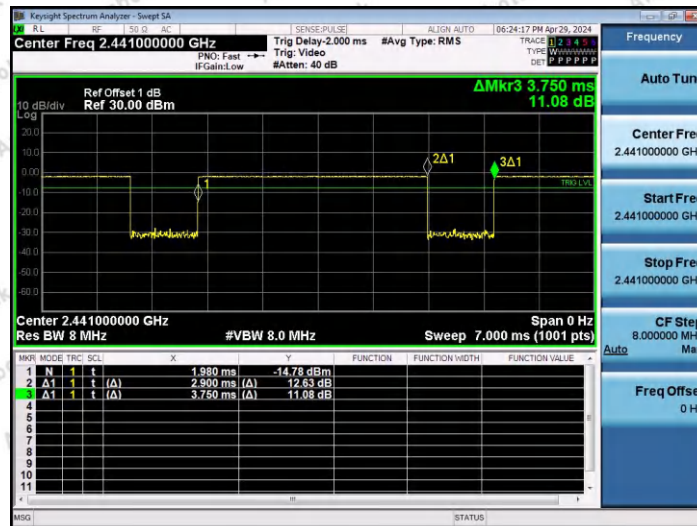
Appendix I: Duty Cycle

Test Result

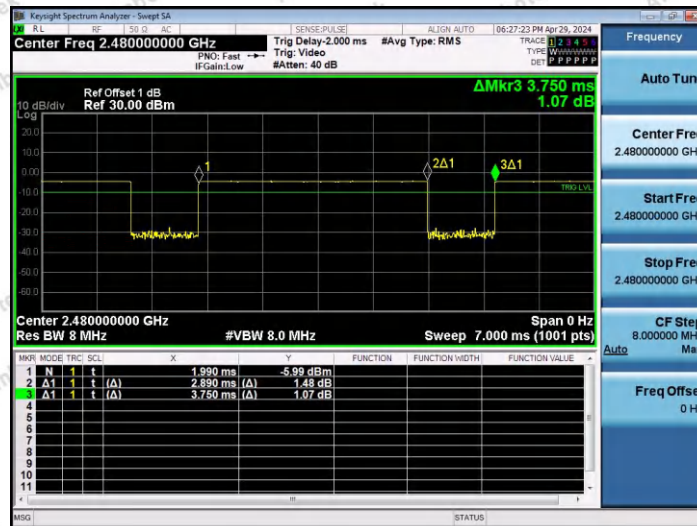
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.74	77.27	1.12
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.74	77.01	1.13
2DH5	Ant1	2480	2.89	3.76	76.86	1.14
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.88	3.74	77.01	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

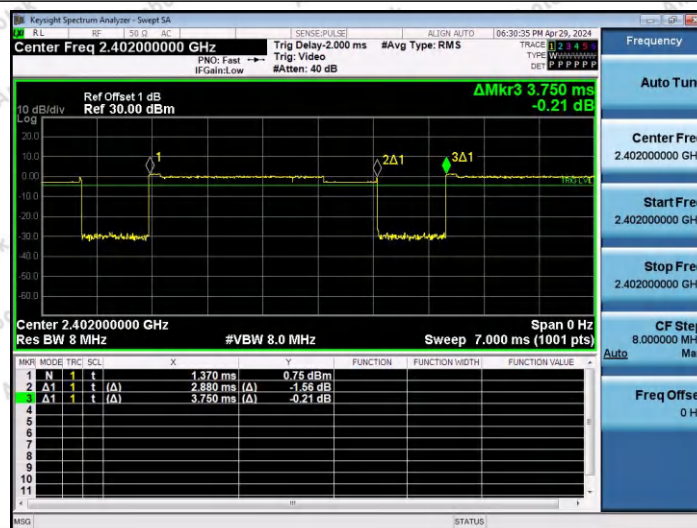




NTNV-DH5-Ant1-2441

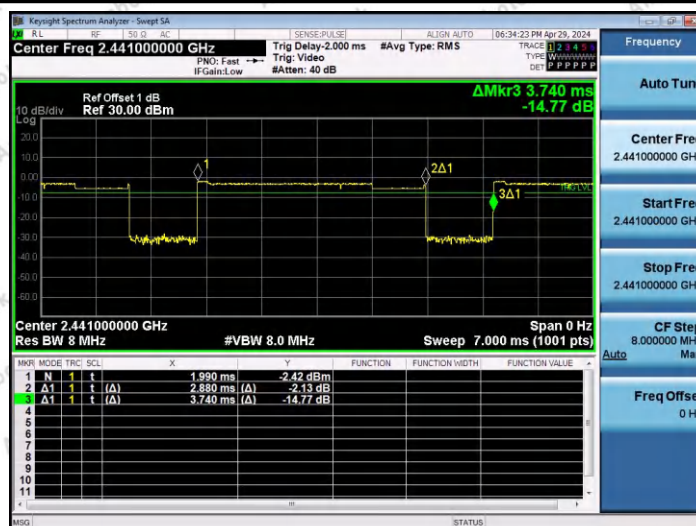


NTNV-DH5-Ant1-2480



NTNV-2DH5-Ant1-2402

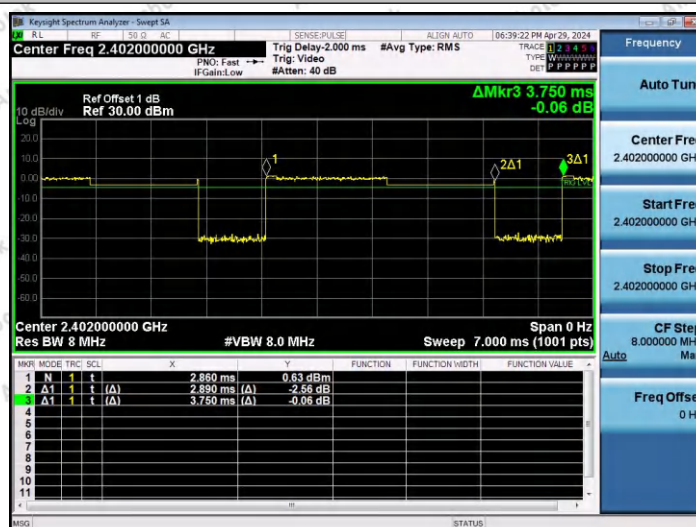




NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402

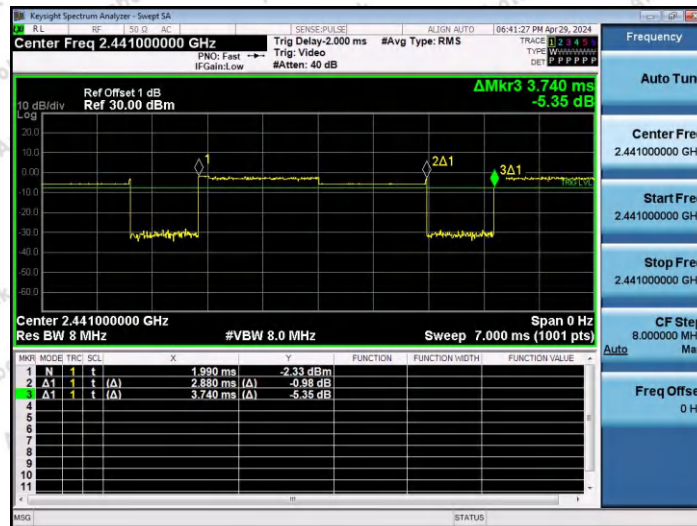
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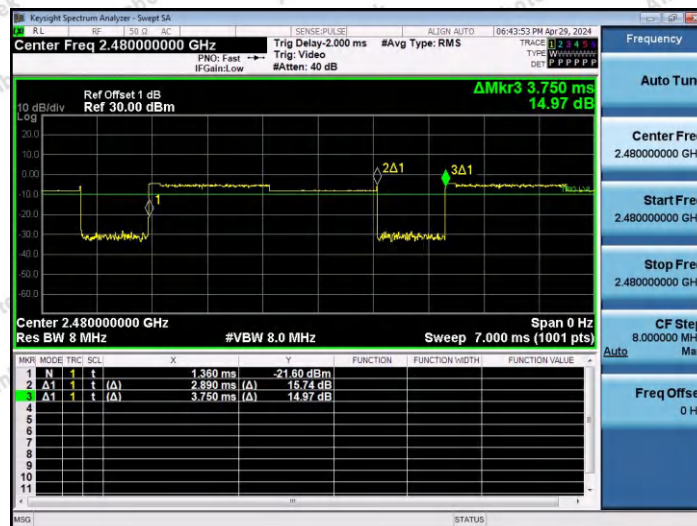


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NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---End---

