

Appendix Test Data

Report No.:	182519C400102101	Test Sample No.:	1-2-2
Start Test Date:	2024.7.10	Finish Test Date:	2024.11.19
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.5°C	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	0.846	2401.559	2402.405	---	---
DH5	Ant1	2441	0.843	2440.562	2441.405	---	---
DH5	Ant1	2480	0.819	2479.589	2480.408	---	---
2DH5	Ant1	2402	1.293	2401.355	2402.648	---	---
2DH5	Ant1	2441	1.278	2440.361	2441.639	---	---
2DH5	Ant1	2480	1.278	2479.361	2480.639	---	---
3DH5	Ant1	2402	1.275	2401.352	2402.627	---	---
3DH5	Ant1	2441	1.260	2440.352	2441.612	---	---
3DH5	Ant1	2480	1.305	2479.340	2480.645	---	---



Test Graphs

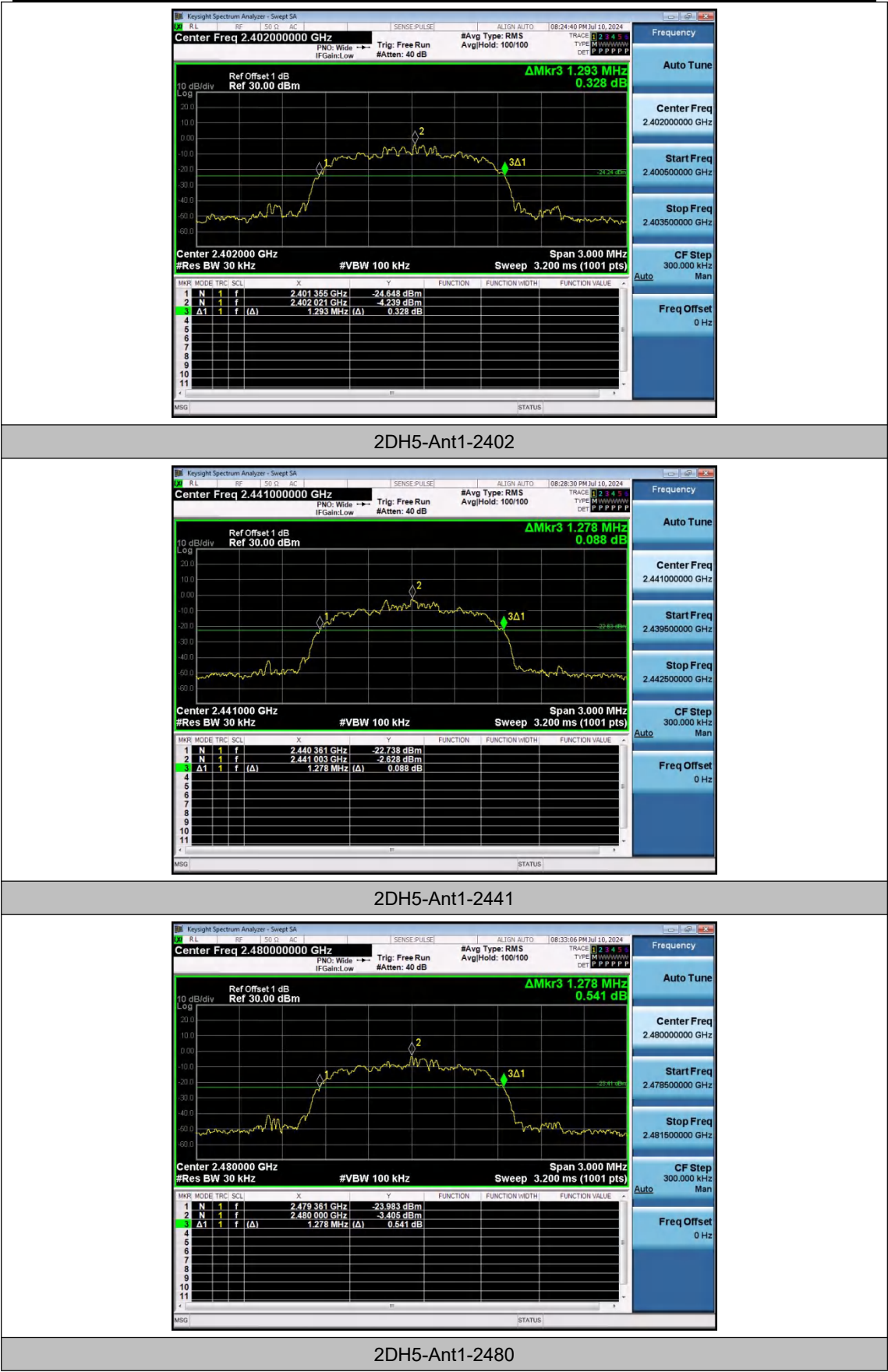


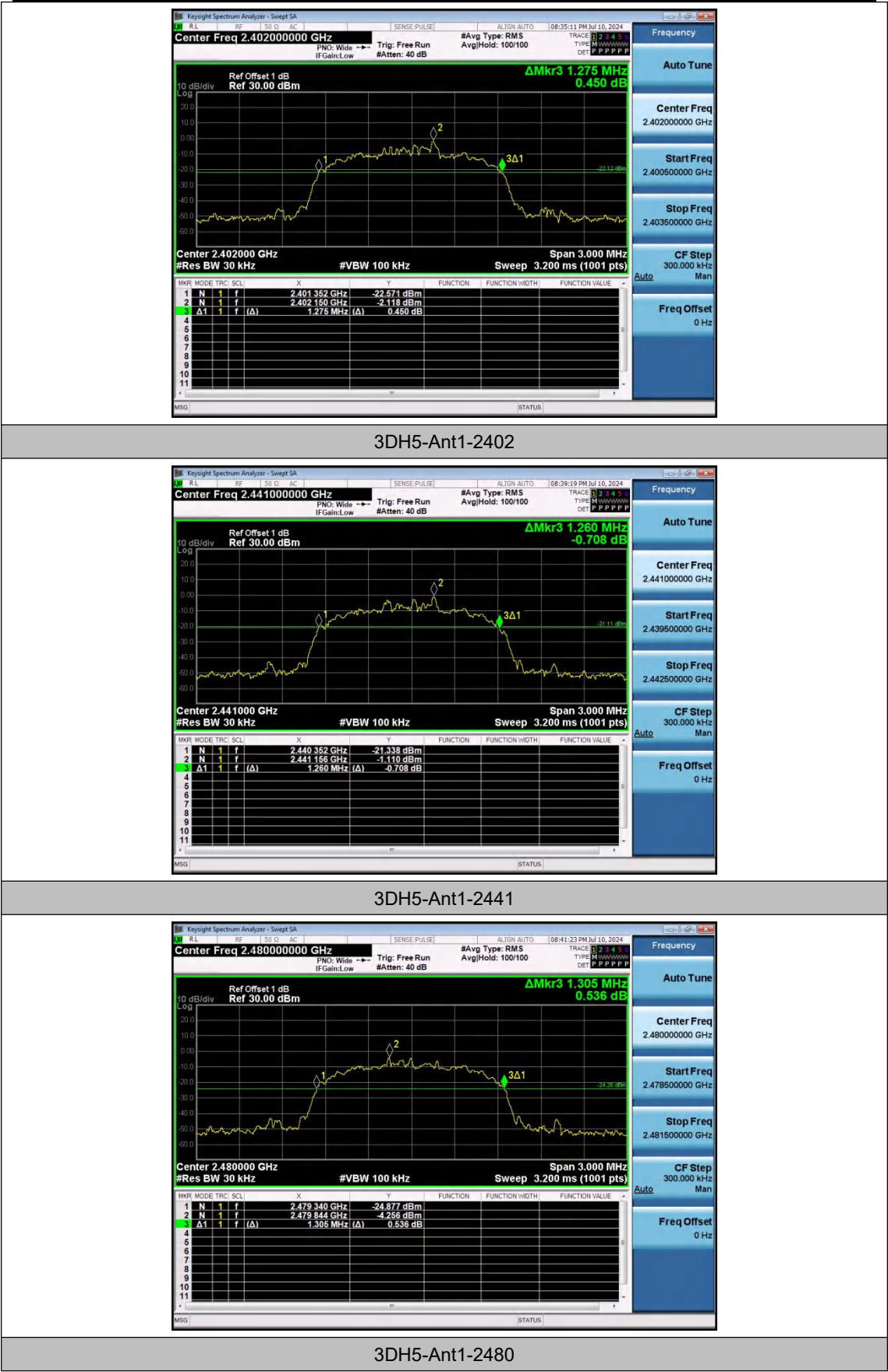
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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.75574	2401.6185	2402.3743	---	---
DH5	Ant1	2441	0.75873	2440.6185	2441.3772	---	---
DH5	Ant1	2480	0.75278	2479.6185	2480.3713	---	---
2DH5	Ant1	2402	1.1650	2401.4098	2402.5748	---	---
2DH5	Ant1	2441	1.1571	2440.4118	2441.5689	---	---
2DH5	Ant1	2480	1.1701	2479.4043	2480.5744	---	---
3DH5	Ant1	2402	1.1667	2401.4133	2402.5800	---	---
3DH5	Ant1	2441	1.1810	2440.4035	2441.5845	---	---
3DH5	Ant1	2480	1.1696	2479.4105	2480.5801	---	---

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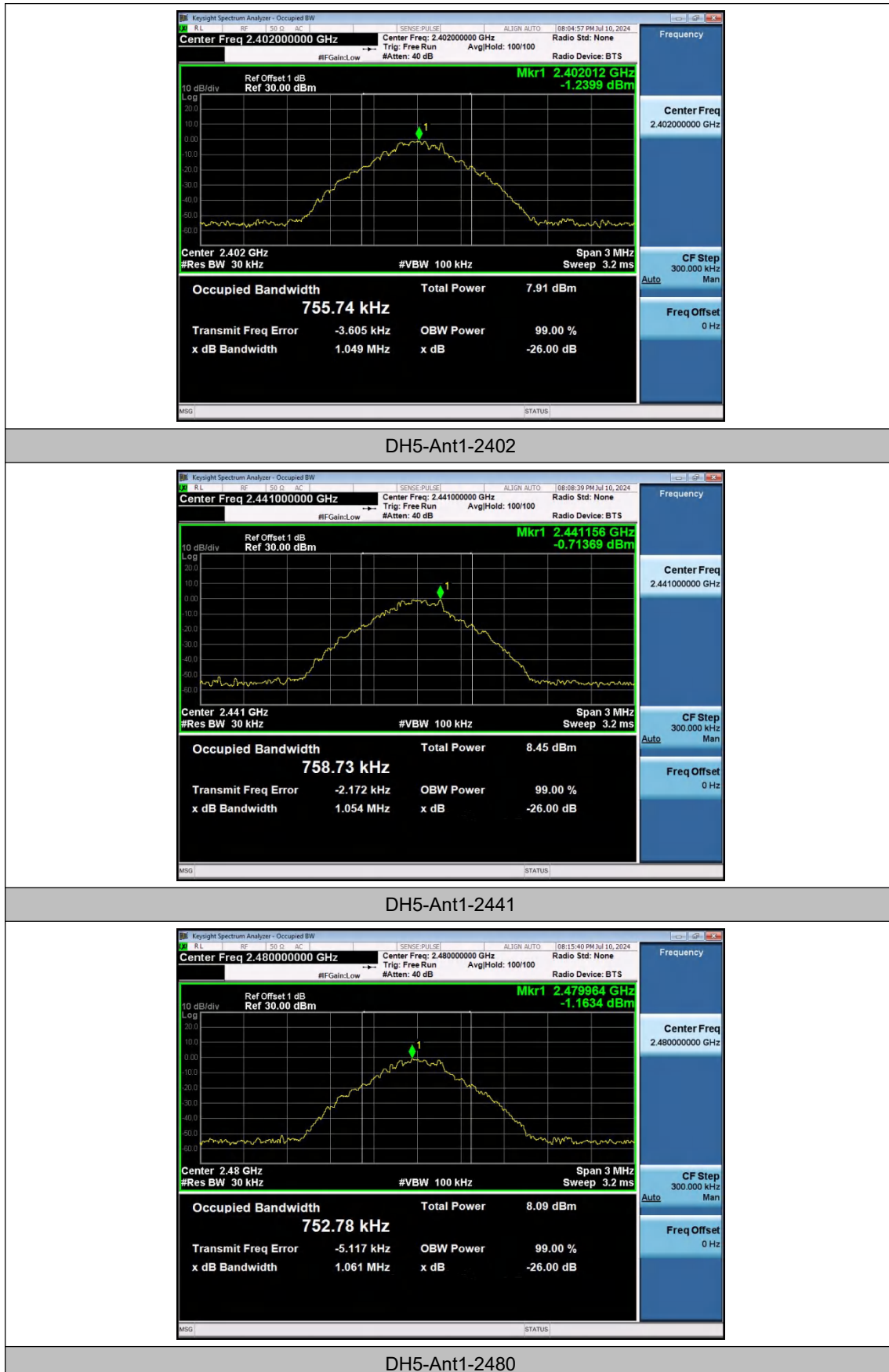
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Test Graphs

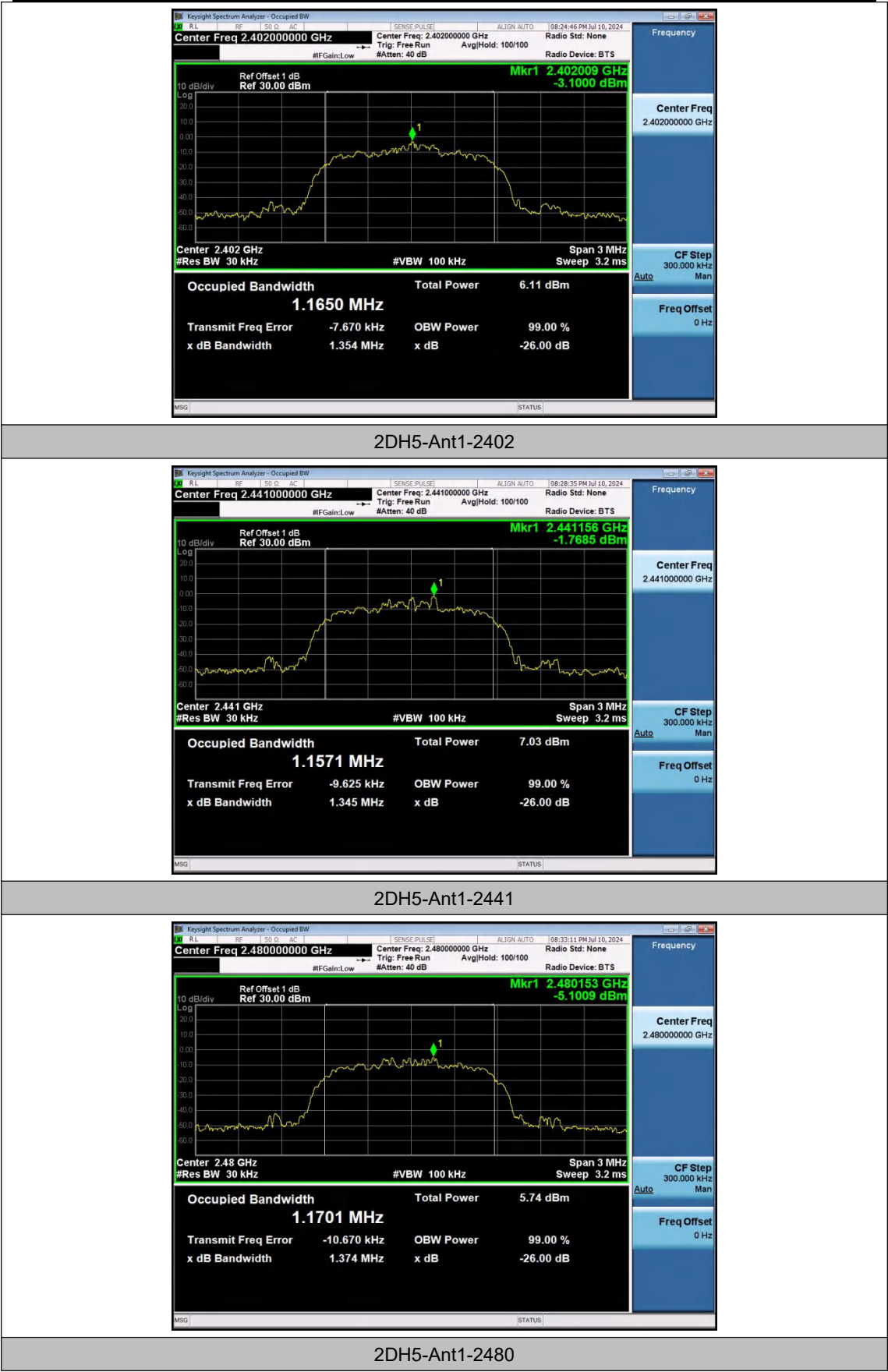


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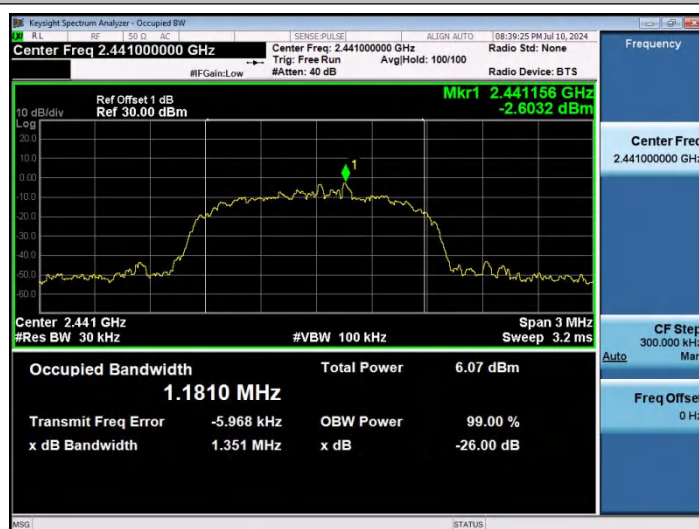
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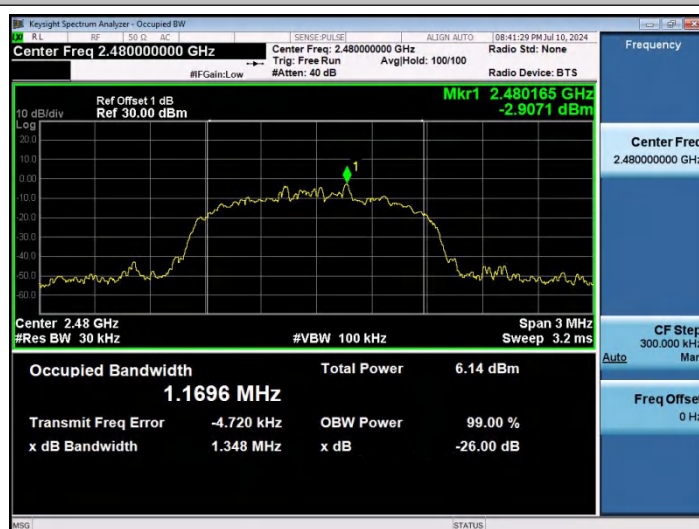




3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

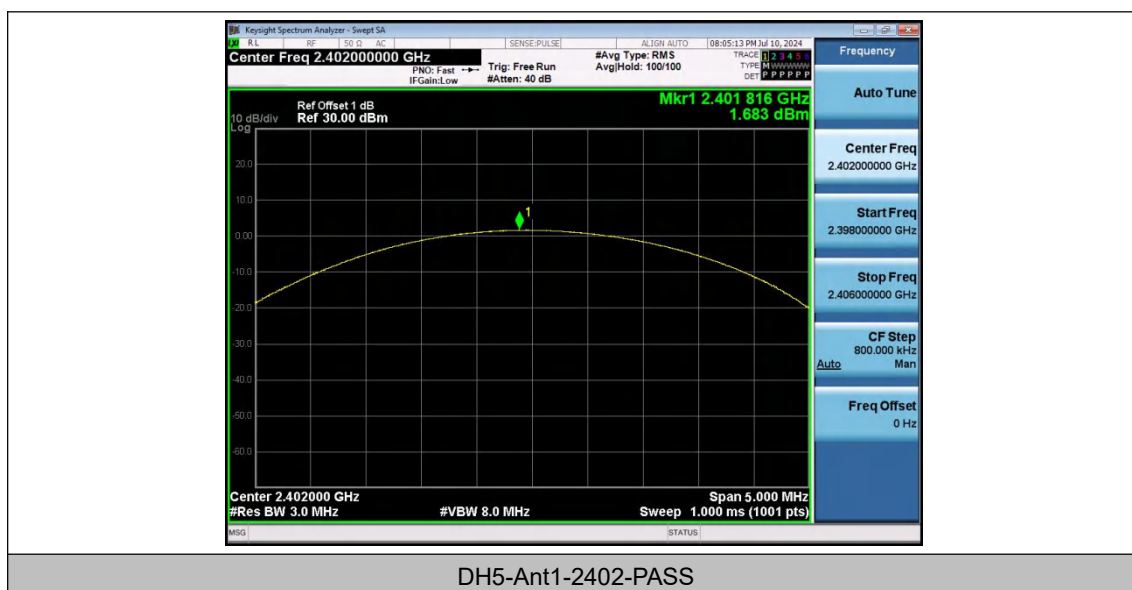


Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.68	≤20.97	PASS
DH5	Ant1	2441	2.25	≤20.97	PASS
DH5	Ant1	2480	1.78	≤20.97	PASS
2DH5	Ant1	2402	1.03	≤20.97	PASS
2DH5	Ant1	2441	1.51	≤20.97	PASS
2DH5	Ant1	2480	1.10	≤20.97	PASS
3DH5	Ant1	2402	0.92	≤20.97	PASS
3DH5	Ant1	2441	1.46	≤20.97	PASS
3DH5	Ant1	2480	1.00	≤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

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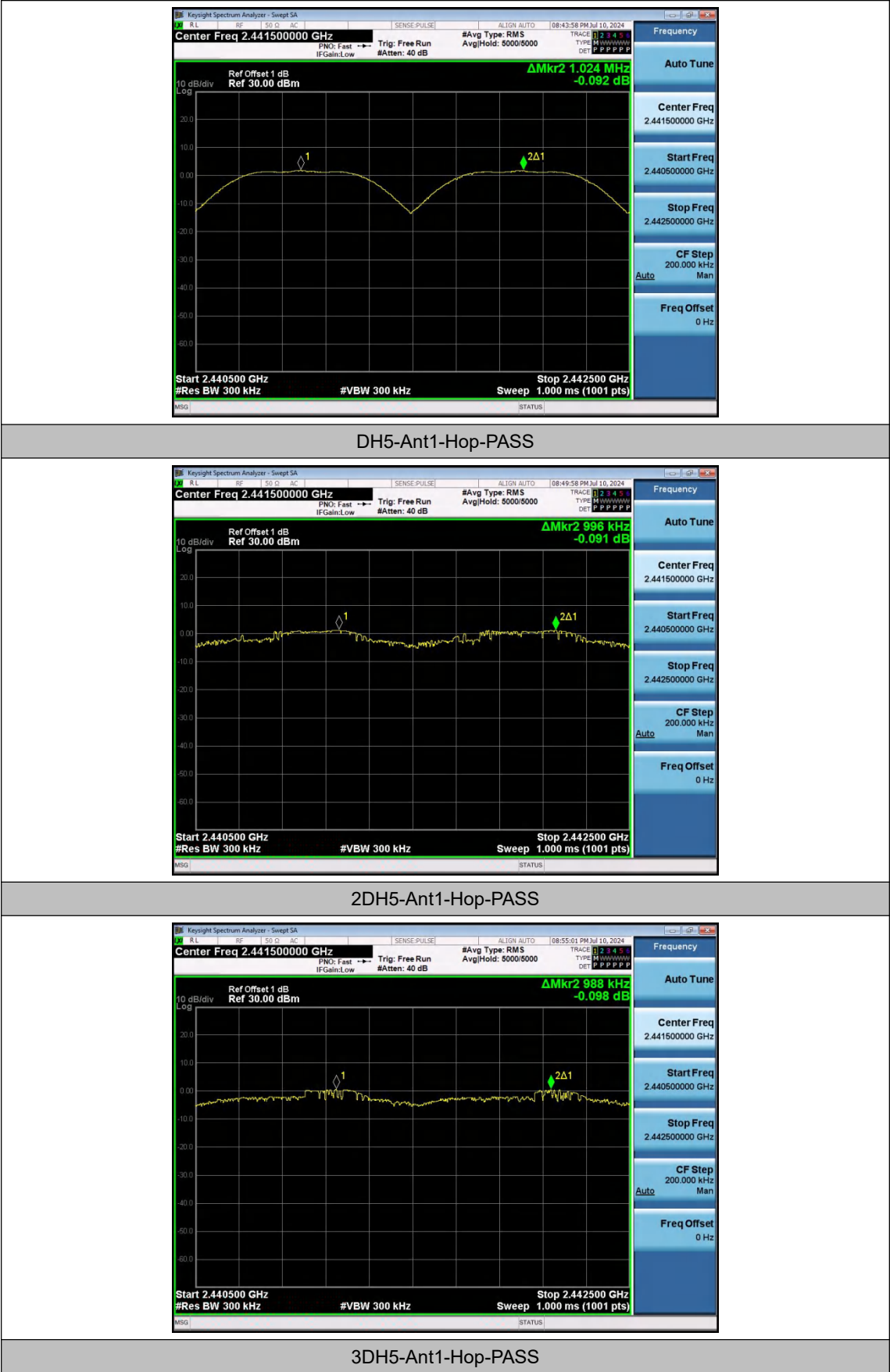
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥0.564	PASS
2DH5	Ant1	Hop	0.996	≥0.862	PASS
3DH5	Ant1	Hop	0.988	≥0.870	PASS



Test Graphs



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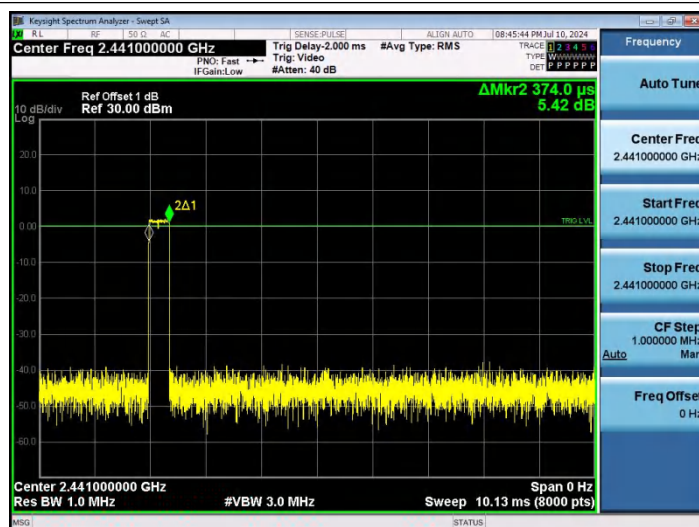
Appendix E: Dwell Time

Test Result

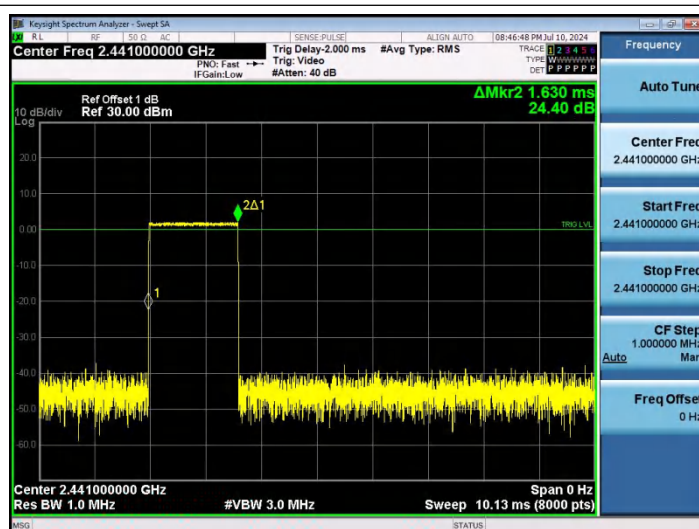
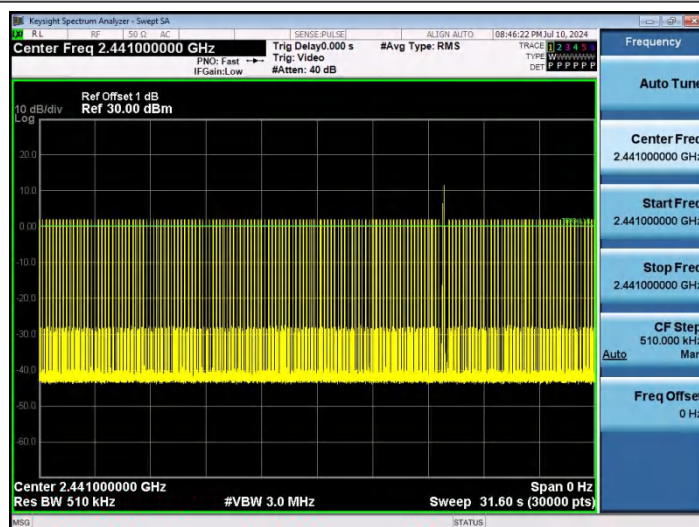
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.630	158	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.878	115	0.331	≤0.4	PASS
2DH1	Ant1	Hop	0.381	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.633	155	0.253	≤0.4	PASS
2DH5	Ant1	Hop	2.882	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.383	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.633	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.883	101	0.291	≤0.4	PASS



Test Graphs

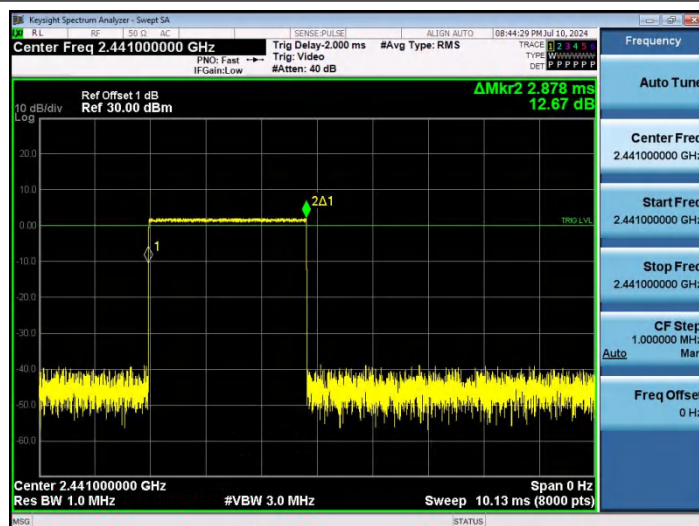
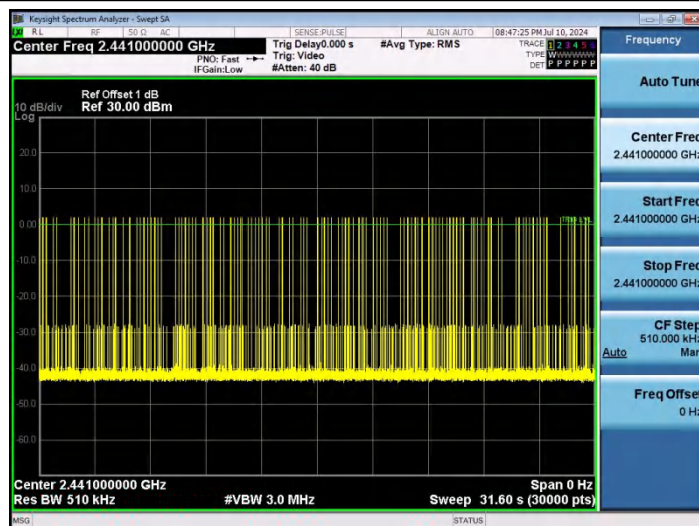


DH1-Ant1-Hop-PASS

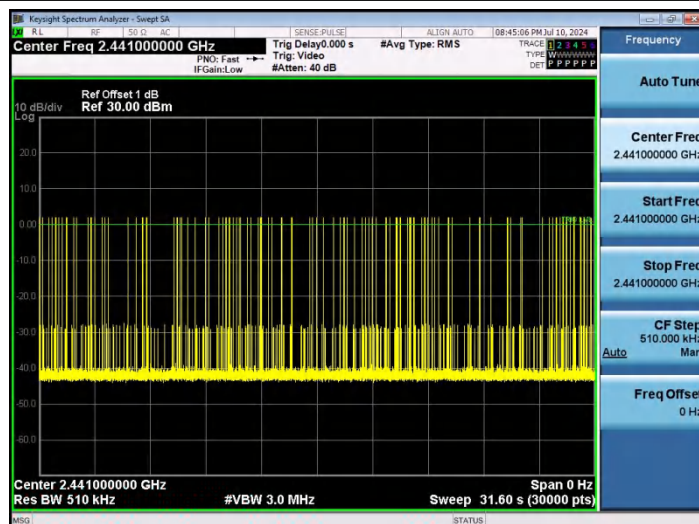


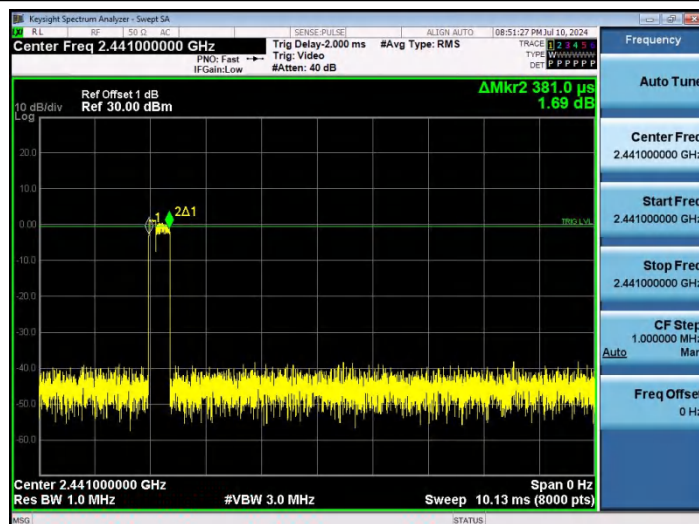
DH3-Ant1-Hop-PASS



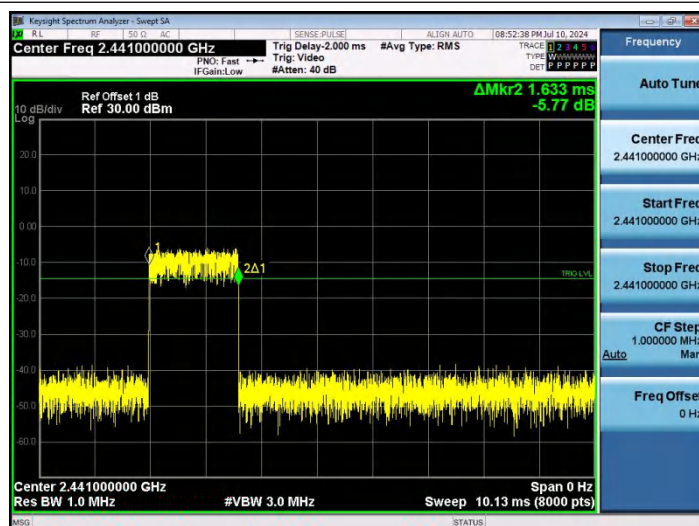
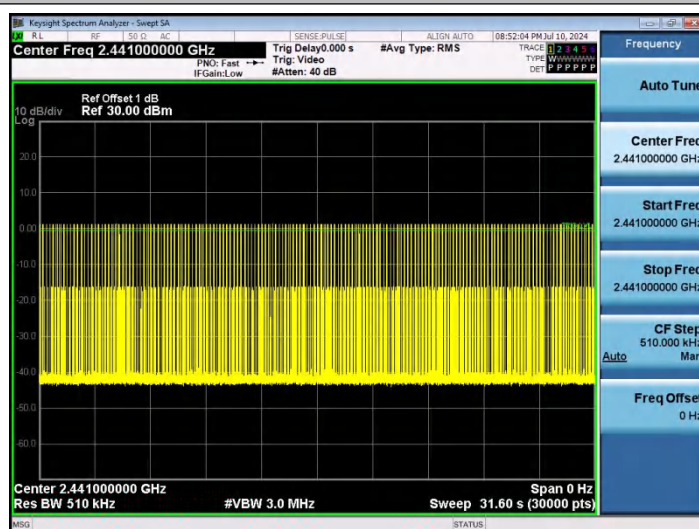


DH5-Ant1-Hop-PASS



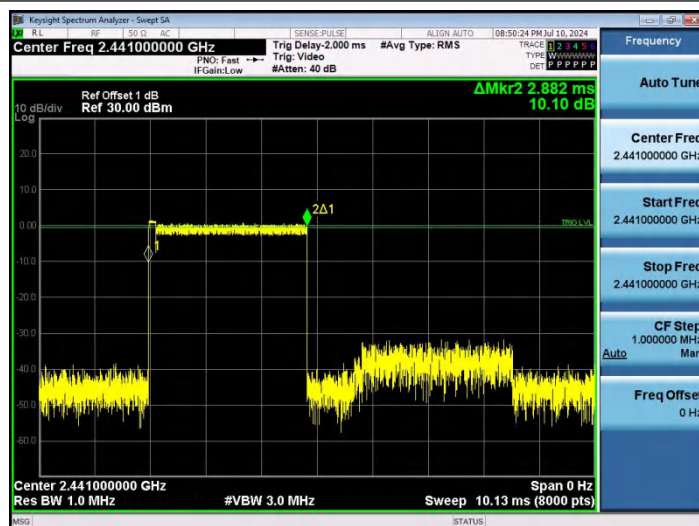
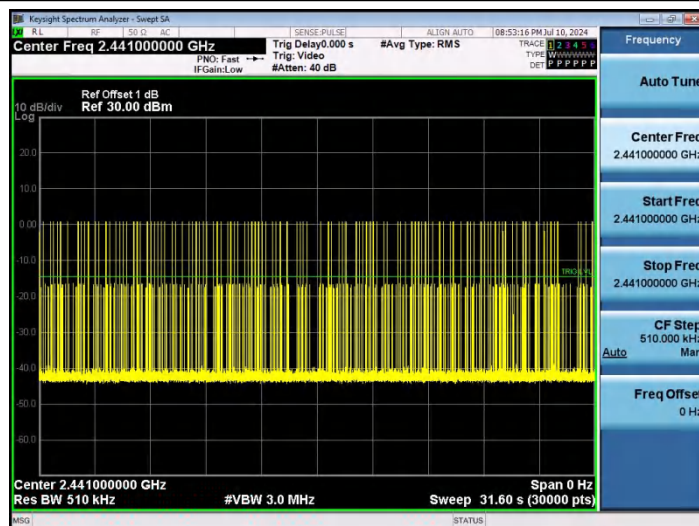


2DH1-Ant1-Hop-PASS

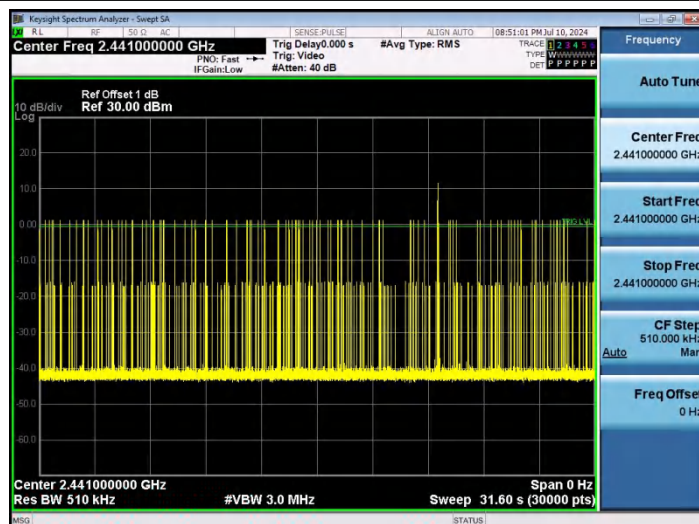


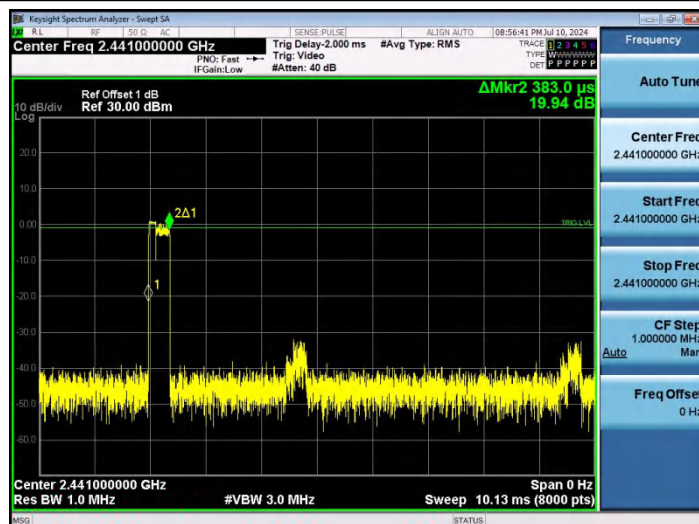
2DH3-Ant1-Hop-PASS



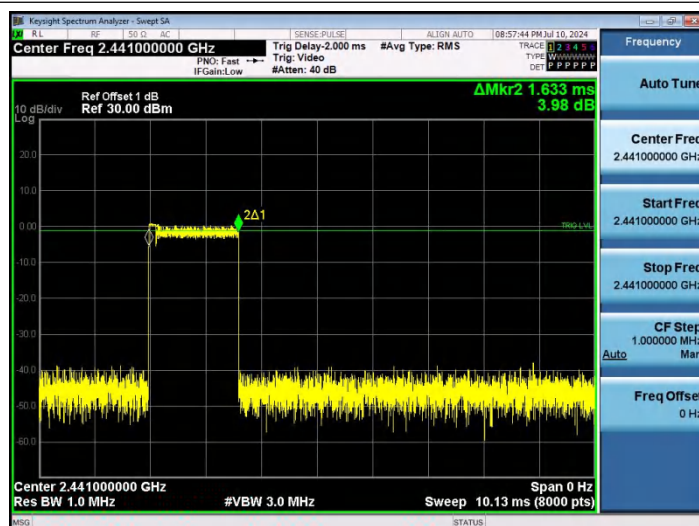
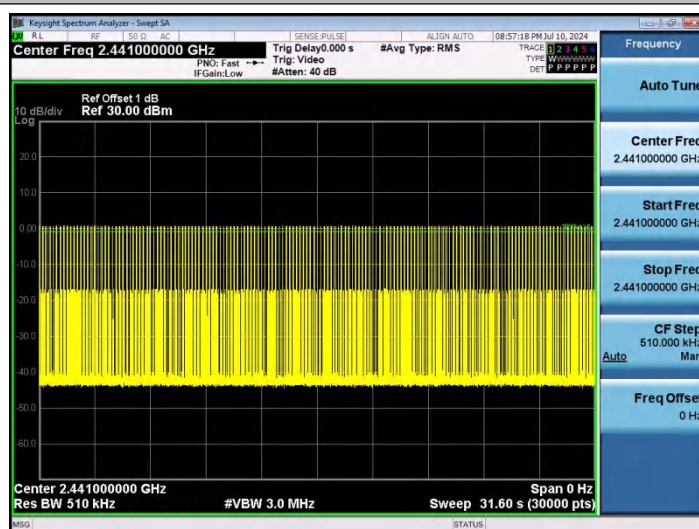


2DH5-Ant1-Hop-PASS



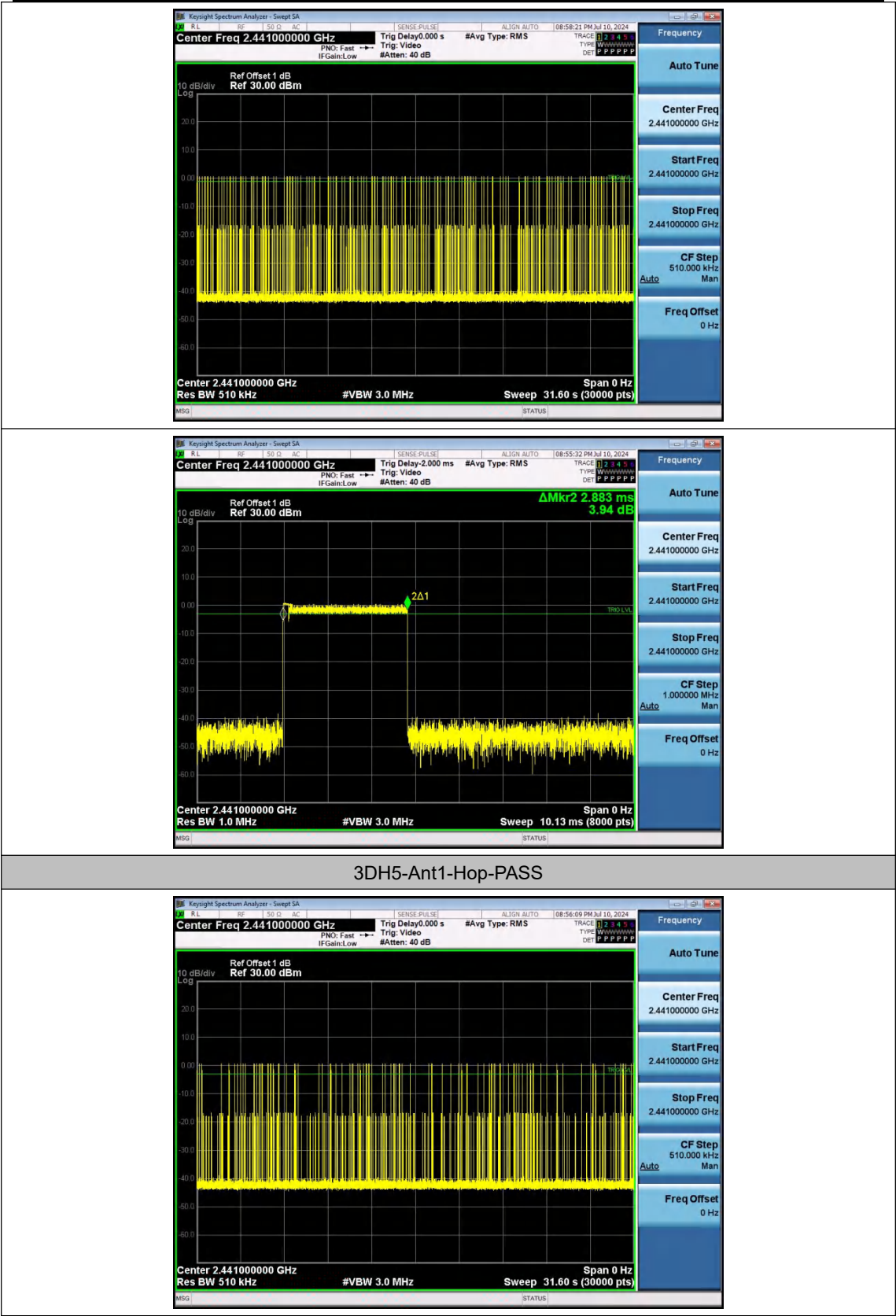


3DH1-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS





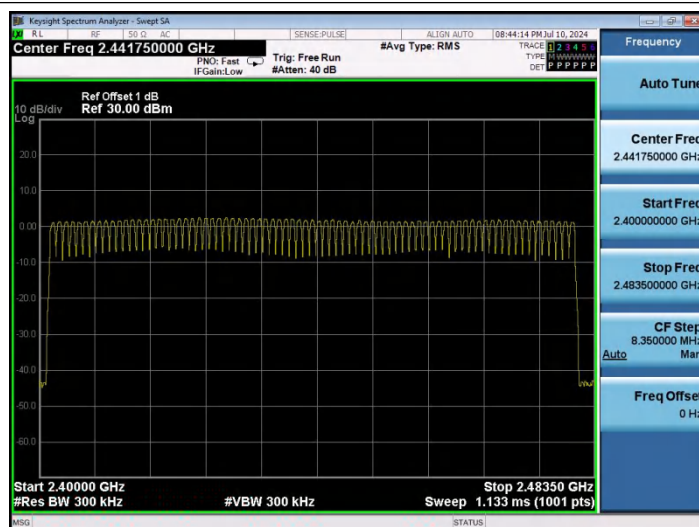
Appendix F: Number of Hopping Channel

Test Result

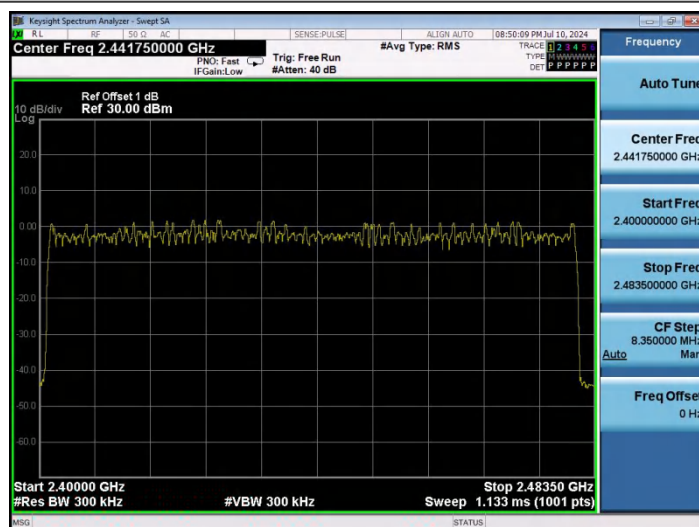
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



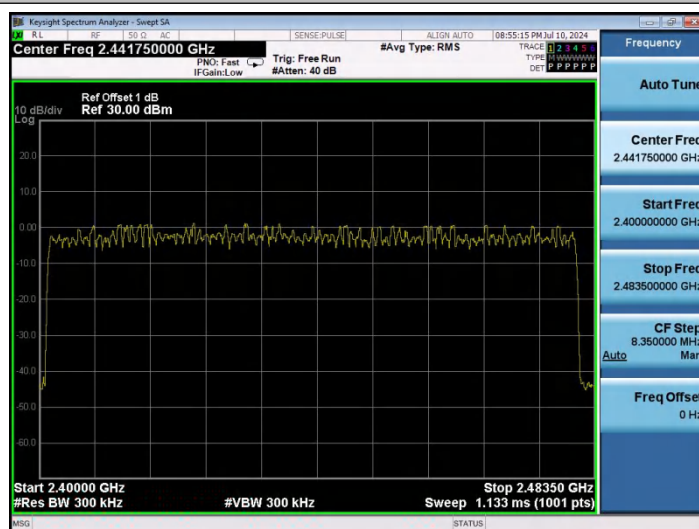
Test Graphs



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	0.99	-56.23	≤-19.01	PASS
DH5	Ant1	High	2480	1.05	-55.74	≤-18.95	PASS
DH5	Ant1	Low	Hop_2402	0.80	-56.45	≤-19.2	PASS
DH5	Ant1	High	Hop_2480	1.44	-55.13	≤-18.56	PASS
2DH5	Ant1	Low	2402	-1.71	-56.8	≤-21.71	PASS
2DH5	Ant1	High	2480	0.77	-56.9	≤-19.23	PASS
2DH5	Ant1	Low	Hop_2402	0.18	-56.43	≤-19.82	PASS
2DH5	Ant1	High	Hop_2480	0.55	-55.77	≤-19.45	PASS
3DH5	Ant1	Low	2402	-2.09	-56.04	≤-22.09	PASS
3DH5	Ant1	High	2480	-3.45	-56.08	≤-23.45	PASS
3DH5	Ant1	Low	Hop_2402	0.20	-55.76	≤-19.8	PASS
3DH5	Ant1	High	Hop_2480	-0.20	-55.77	≤-20.2	PASS

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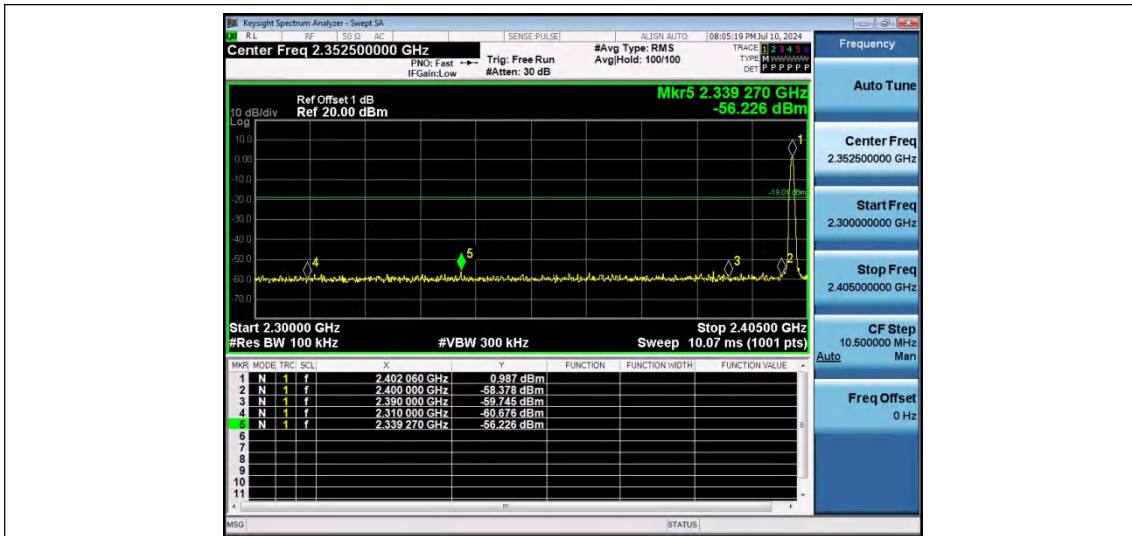
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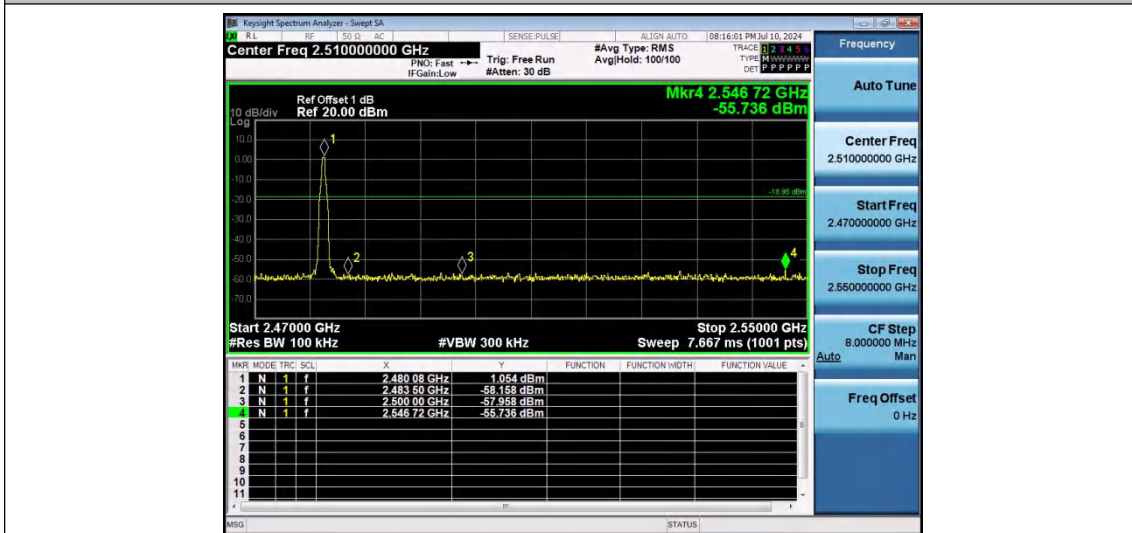
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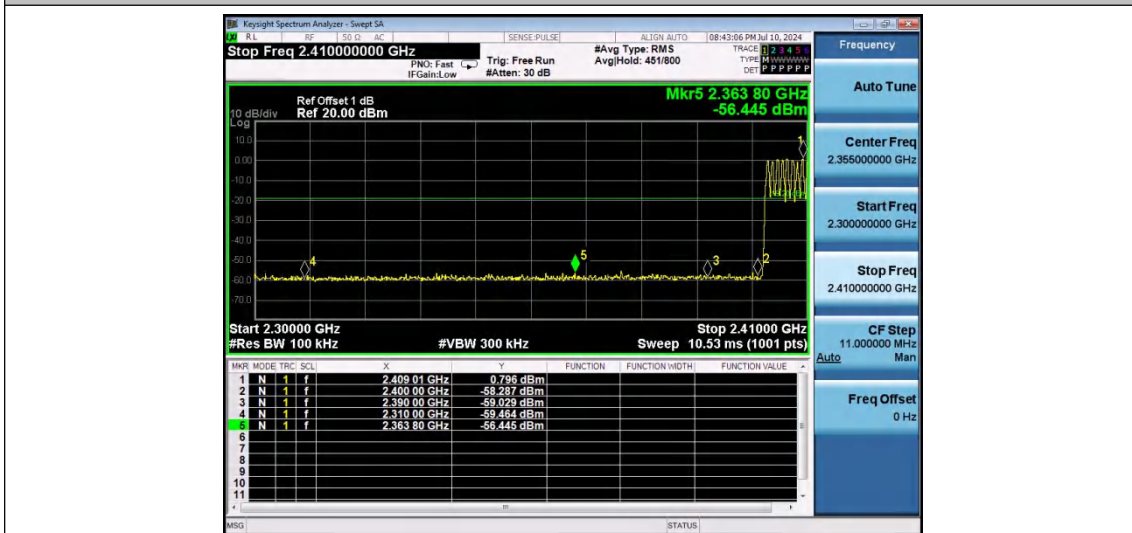
Test Graphs



DH5-Ant1-2402-PASS



DH5-Ant1-2480-PASS



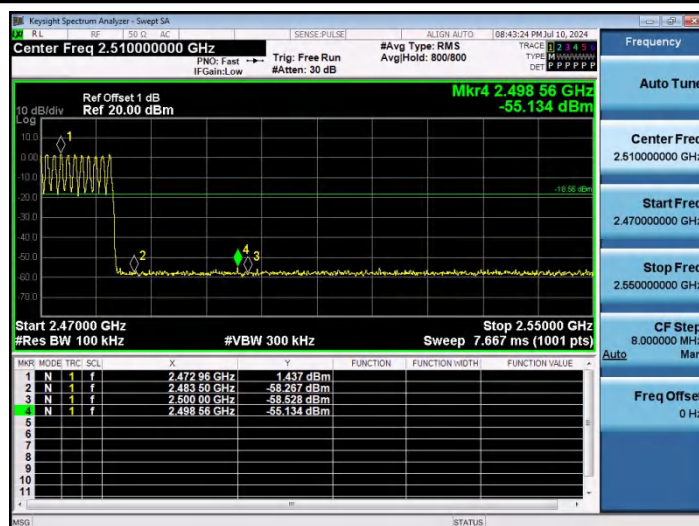
DH5-Ant1-Hop_2402-PASS

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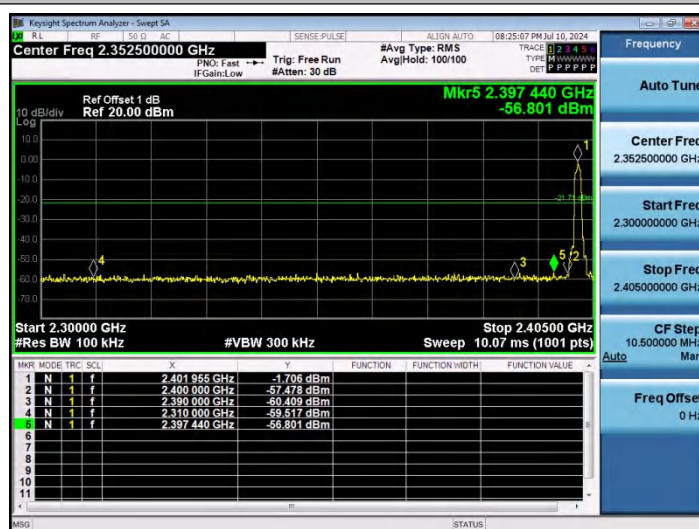
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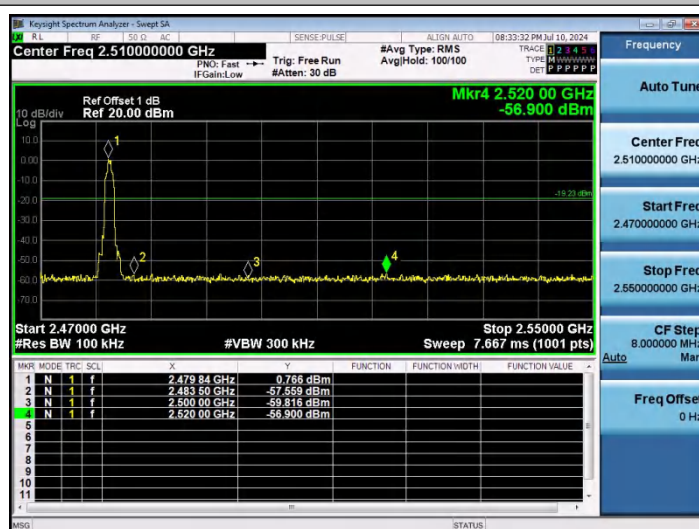




DH5-Ant1-Hop 2480-PASS

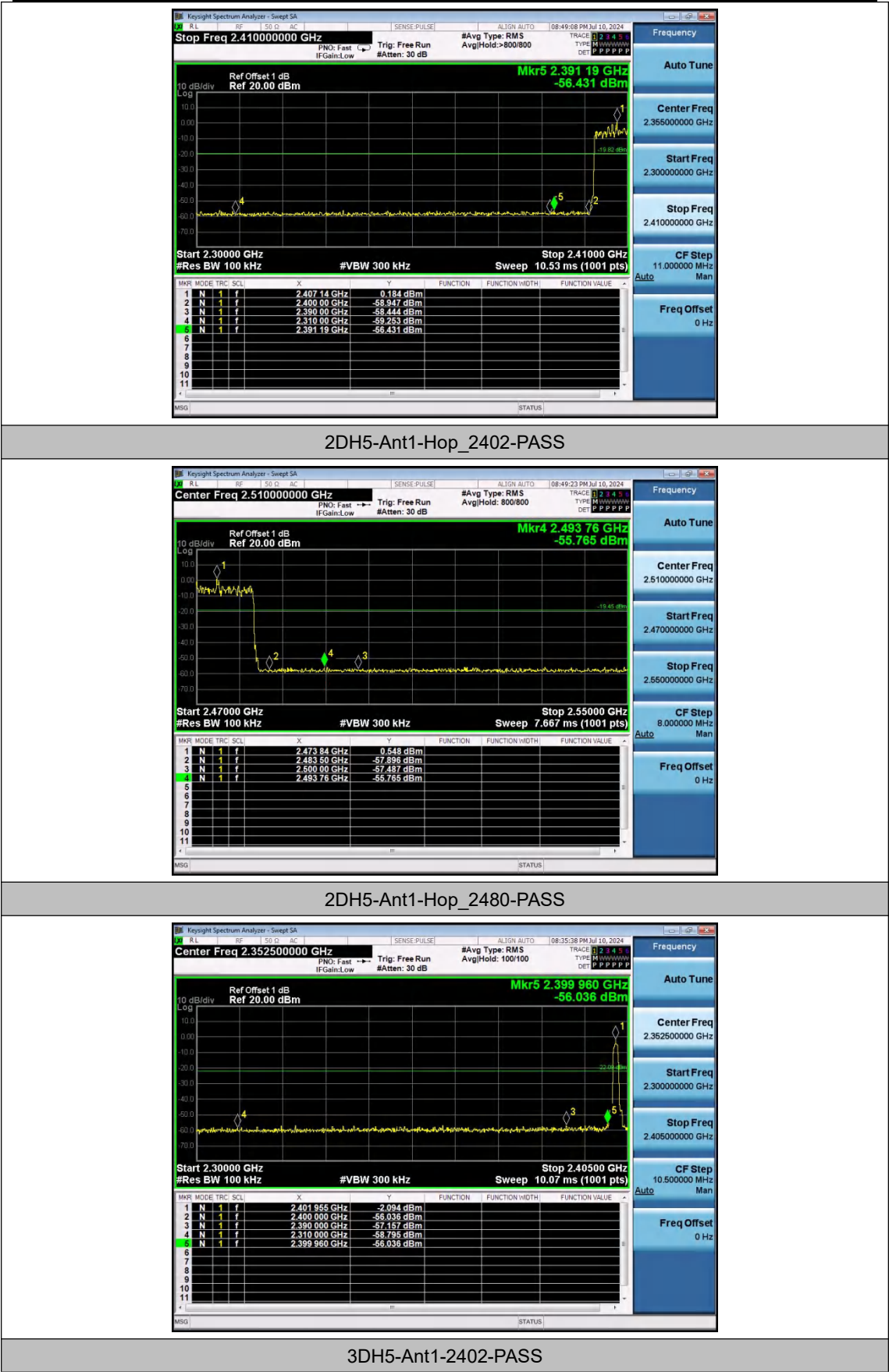


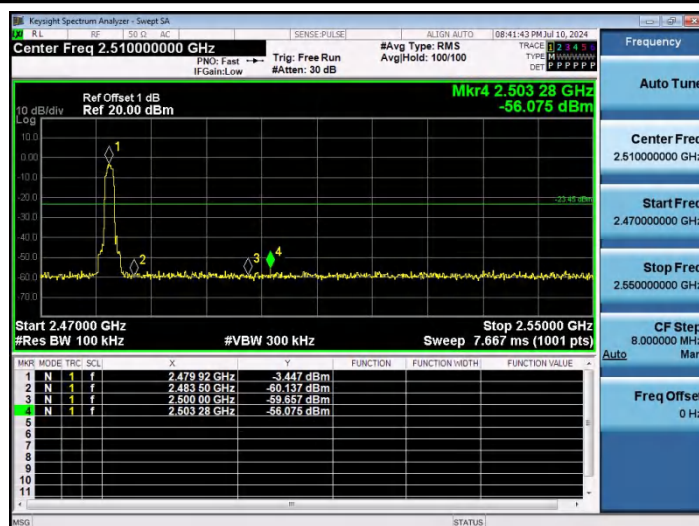
2DH5-Ant1-2402-PASS



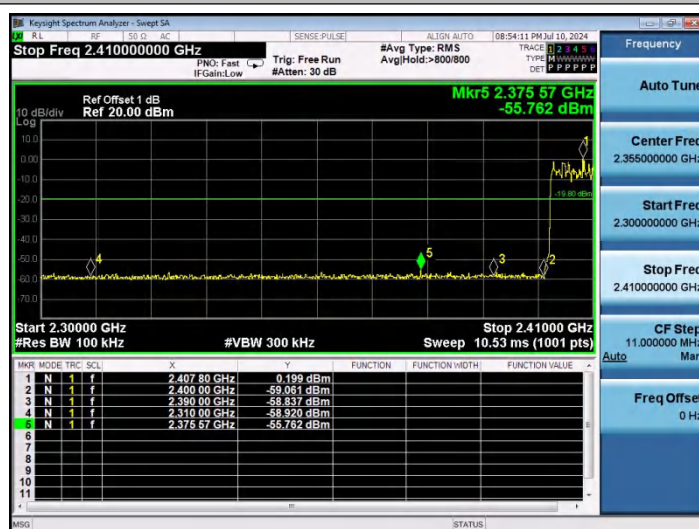
2DH5-Ant1-2480-PASS



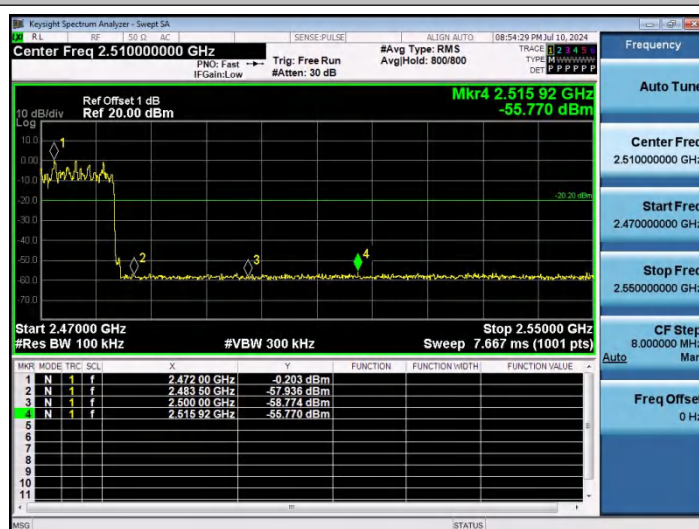




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop 2402-PASS



3DH5-Ant1-Hop 2480-PASS



Appendix H: Conducted Spurious Emission

Test Result

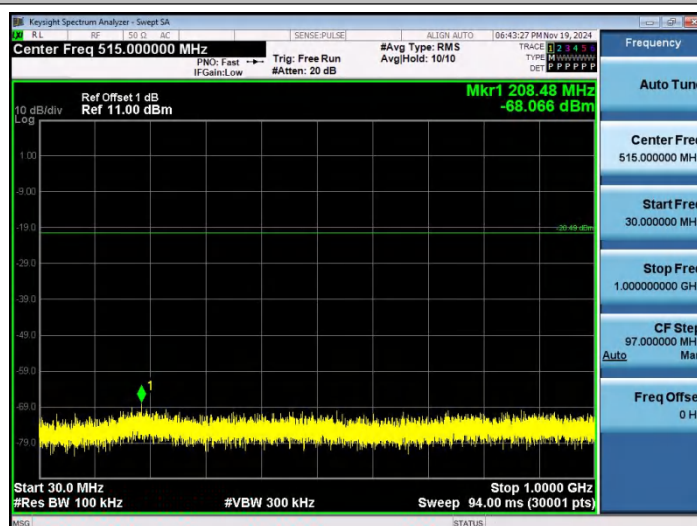
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.49	-0.49	---	PASS
DH5	Ant1	2402	30~1000	-0.49	-68.07	≤-20.49	PASS
DH5	Ant1	2402	1000~26500	-0.49	-53.43	≤-20.49	PASS
DH5	Ant1	2441	0~Reference	1.44	1.44	---	PASS
DH5	Ant1	2441	30~1000	1.44	-68.56	≤-18.56	PASS
DH5	Ant1	2441	1000~26500	1.44	-53.04	≤-18.56	PASS
DH5	Ant1	2480	0~Reference	-0.80	-0.80	---	PASS
DH5	Ant1	2480	30~1000	-0.80	-68.91	≤-20.8	PASS
DH5	Ant1	2480	1000~26500	-0.80	-53.57	≤-20.8	PASS
2DH5	Ant1	2402	0~Reference	-5.12	-5.12	---	PASS
2DH5	Ant1	2402	30~1000	-5.12	-69.24	≤-25.12	PASS
2DH5	Ant1	2402	1000~26500	-5.12	-53.55	≤-25.12	PASS
2DH5	Ant1	2441	0~Reference	-4.25	-4.25	---	PASS
2DH5	Ant1	2441	30~1000	-4.25	-69.09	≤-24.25	PASS
2DH5	Ant1	2441	1000~26500	-4.25	-53.55	≤-24.25	PASS
2DH5	Ant1	2480	0~Reference	-5.52	-5.52	---	PASS
2DH5	Ant1	2480	30~1000	-5.52	-68.62	≤-25.52	PASS
2DH5	Ant1	2480	1000~26500	-5.52	-53.68	≤-25.52	PASS
3DH5	Ant1	2402	0~Reference	-4.56	-4.56	---	PASS
3DH5	Ant1	2402	30~1000	-4.56	-69.16	≤-24.56	PASS
3DH5	Ant1	2402	1000~26500	-4.56	-53.31	≤-24.56	PASS
3DH5	Ant1	2441	0~Reference	-3.89	-3.89	---	PASS
3DH5	Ant1	2441	30~1000	-3.89	-69.07	≤-23.89	PASS
3DH5	Ant1	2441	1000~26500	-3.89	-53.52	≤-23.89	PASS
3DH5	Ant1	2480	0~Reference	-5.60	-5.60	---	PASS
3DH5	Ant1	2480	30~1000	-5.60	-69.09	≤-25.6	PASS
3DH5	Ant1	2480	1000~26500	-5.60	-53.41	≤-25.6	PASS



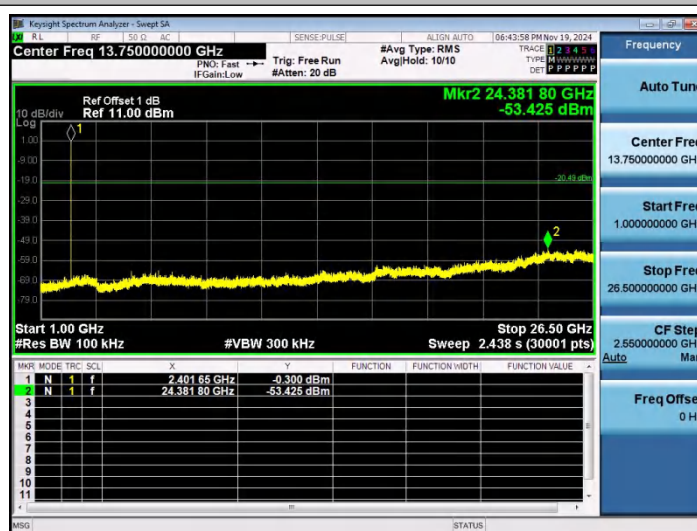
Test Graphs



DH5-Ant1-2402-0~Reference-PASS



DH5-Ant1-2402-30~1000-PASS

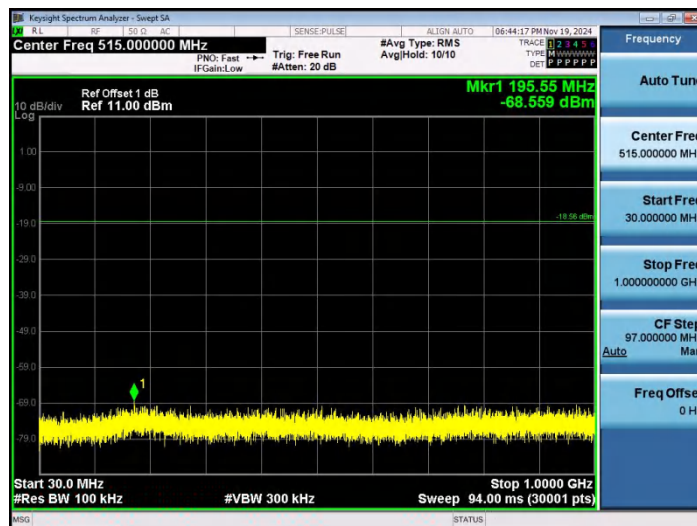


DH5-Ant1-2402-1000~26500-PASS

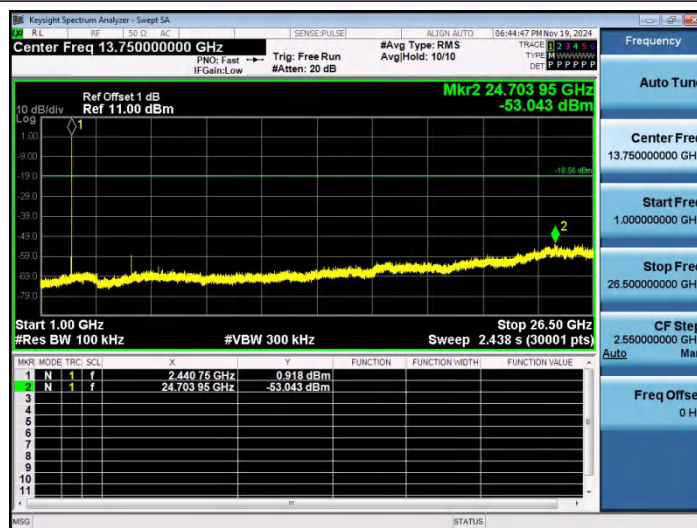




DH5-Ant1-2441-0~Reference-PASS



DH5-Ant1-2441-30~1000-PASS

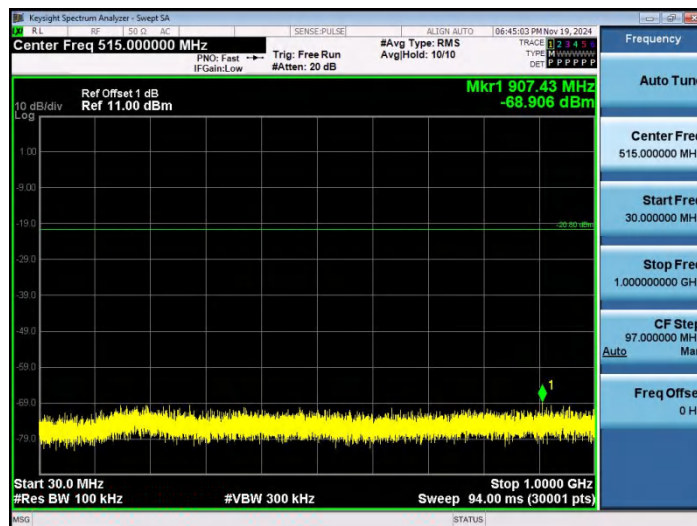


DH5-Ant1-2441-1000~26500-PASS

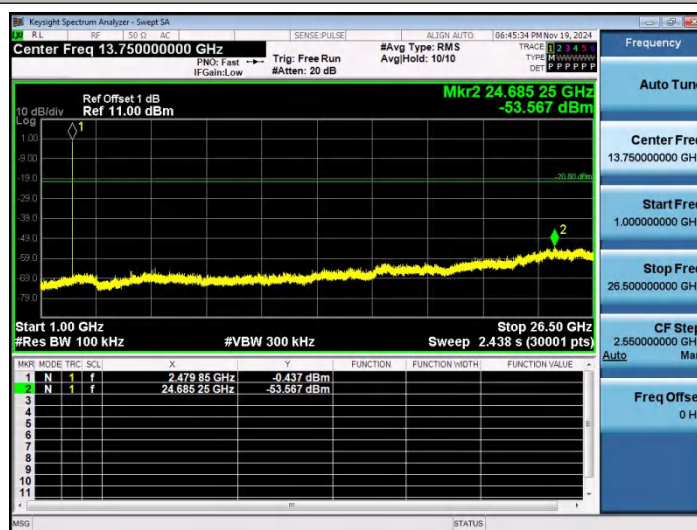




DH5-Ant1-2480-0~Reference-PASS



DH5-Ant1-2480-30~1000-PASS

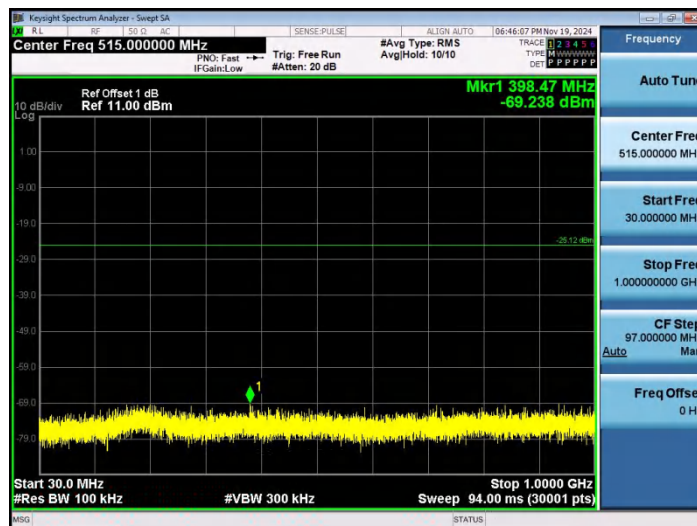


DH5-Ant1-2480-1000~26500-PASS

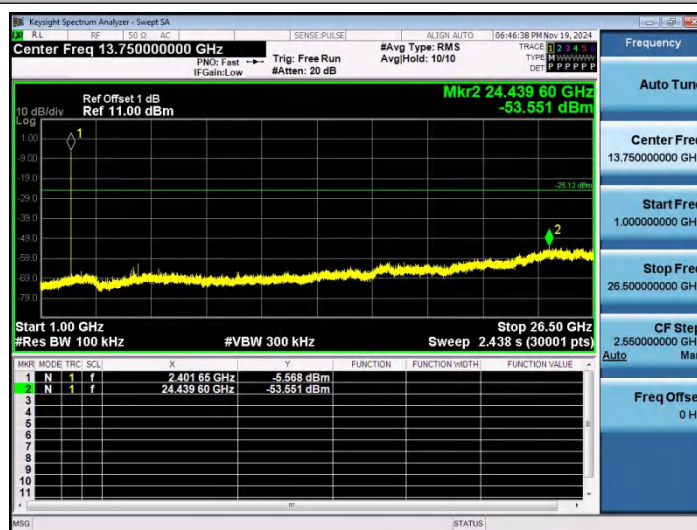




2DH5-Ant1-2402-0~Reference-PASS



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

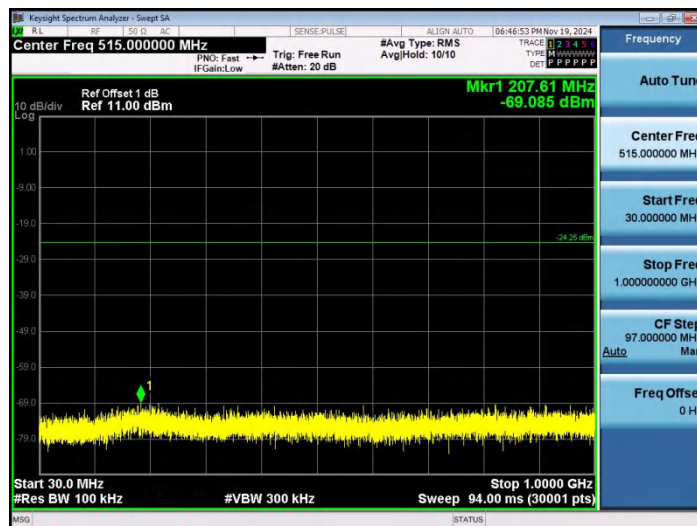


2DH5-Ant1-2402-1000~26500-PASS

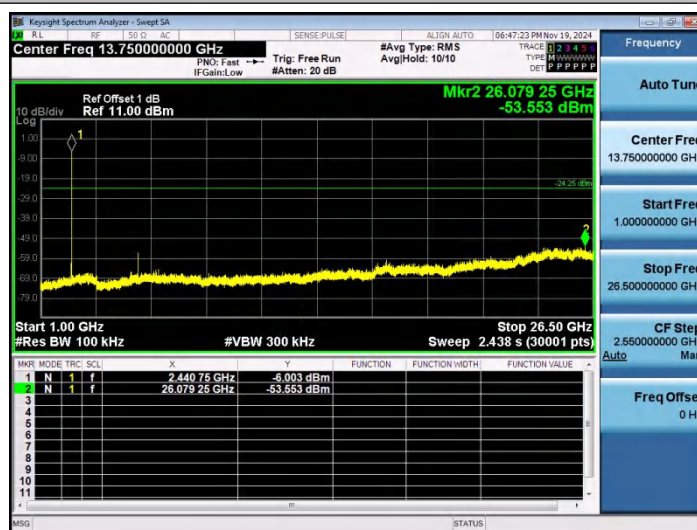




2DH5-Ant1-2441-0~Reference-PASS



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

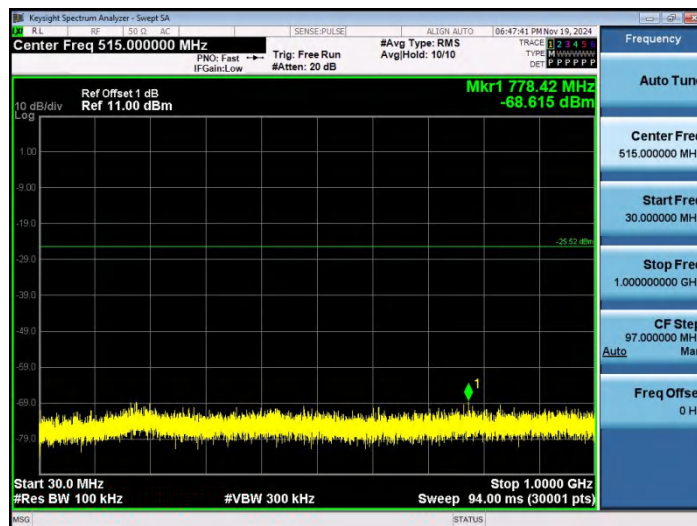


2DH5-Ant1-2441-1000~26500-PASS

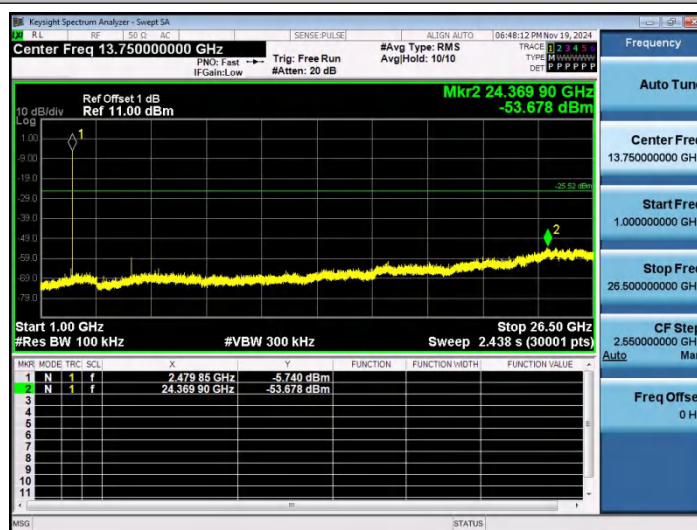




2DH5-Ant1-2480-0~Reference-PASS

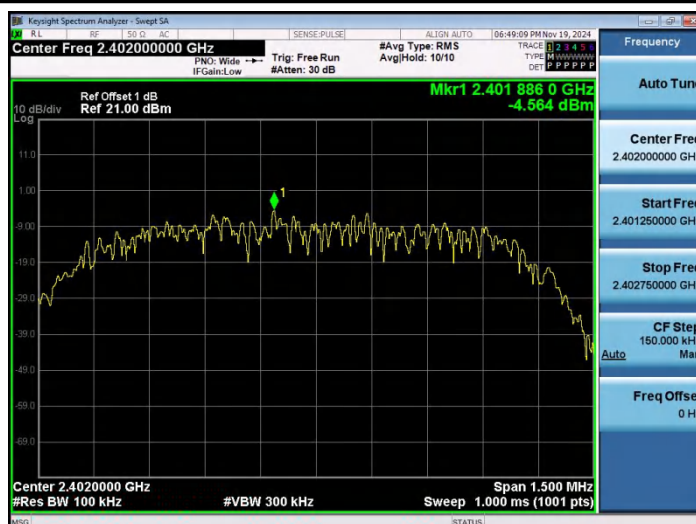


2DH5-Ant1-2480-30~1000-PASS

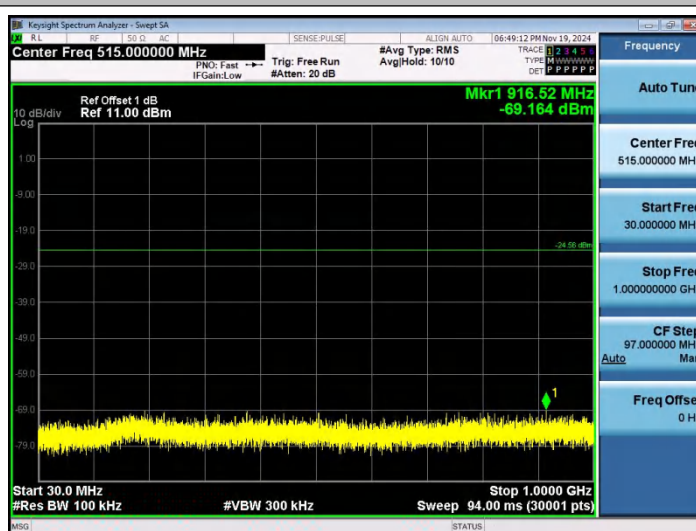


2DH5-Ant1-2480-1000~26500-PASS

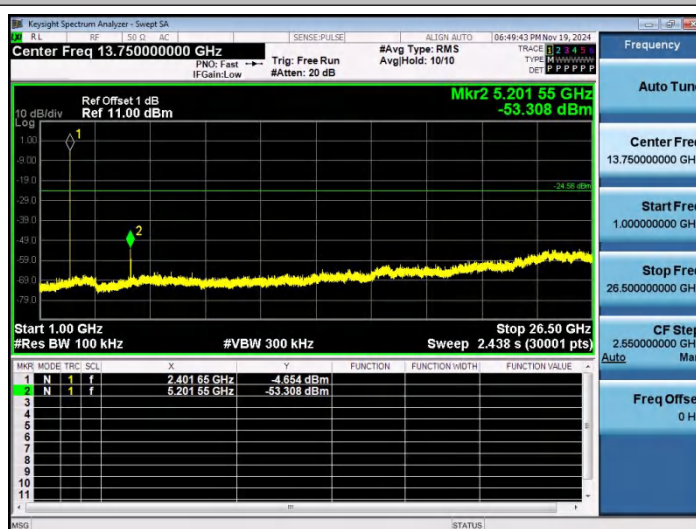




3DH5-Ant1-2402-0~Reference-PASS

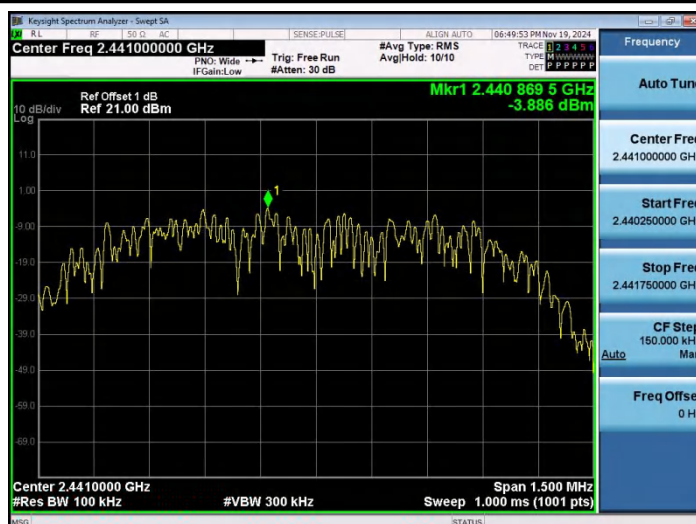


3DH5-Ant1-2402-30~1000-PASS

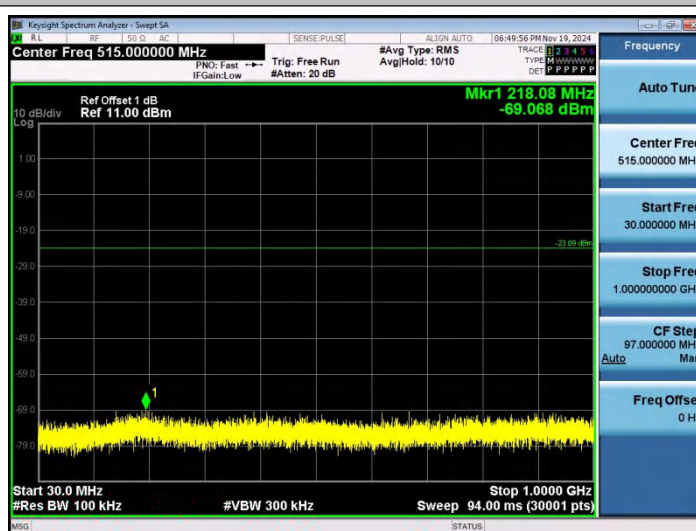


3DH5-Ant1-2402-1000~26500-PASS

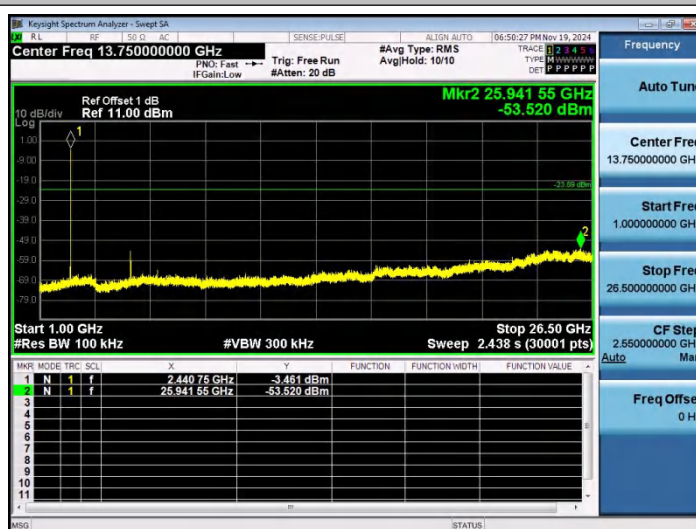




3DH5-Ant1-2441-0~Reference-PASS

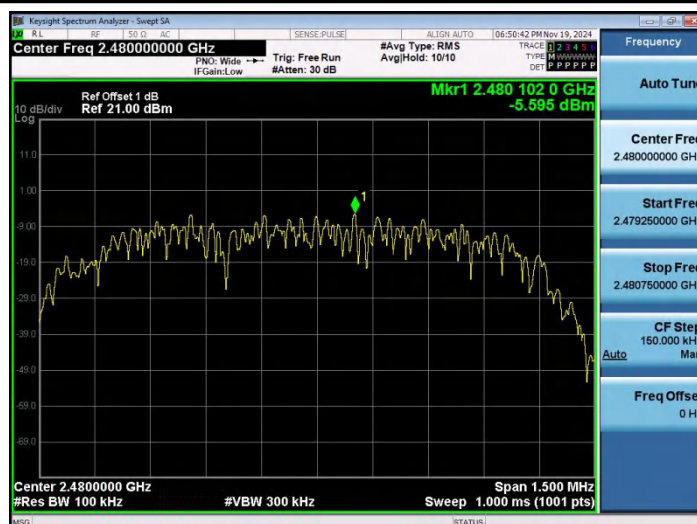


3DH5-Ant1-2441-30~1000-PASS

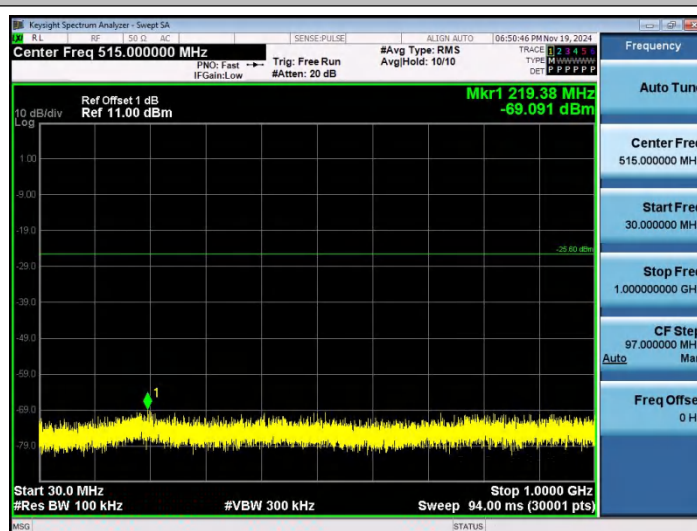


3DH5-Ant1-2441-1000~26500-PASS

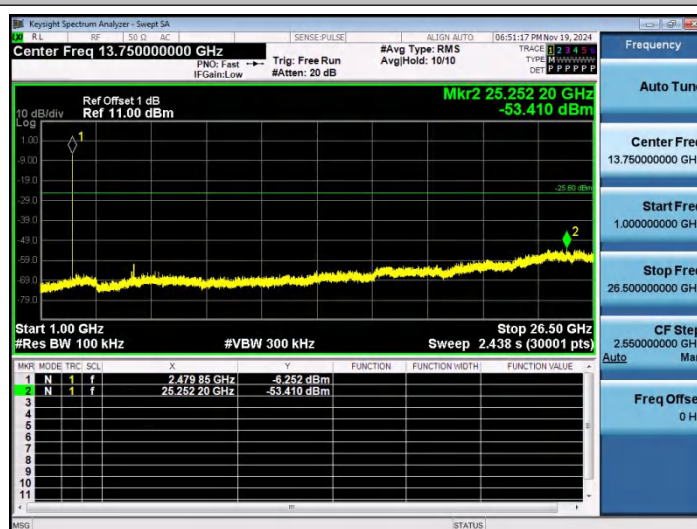




3DH5-Ant1-2480-0~Reference-PASS



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



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



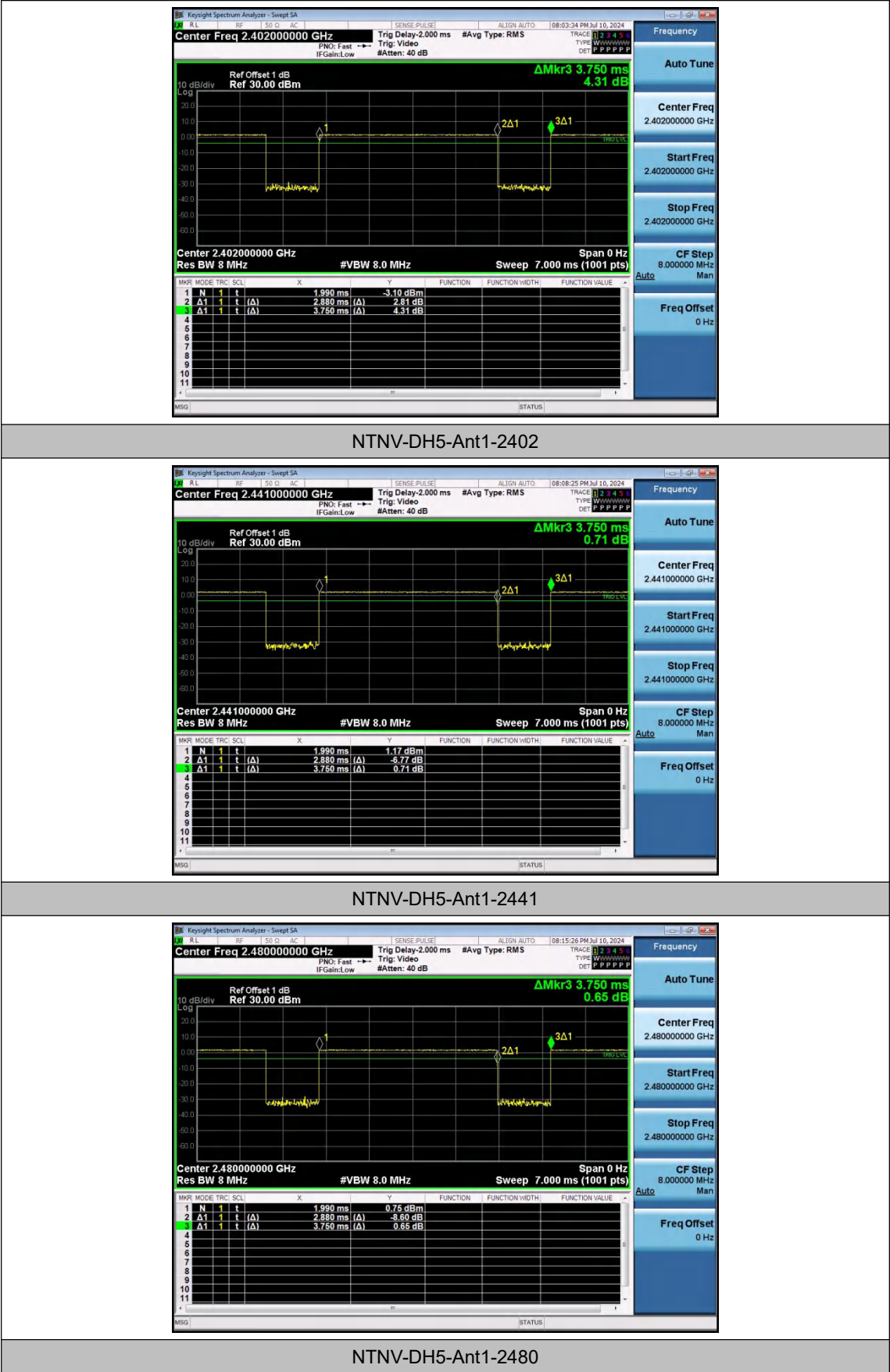
Appendix I: Duty Cycle

Test Result

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



Test Graphs

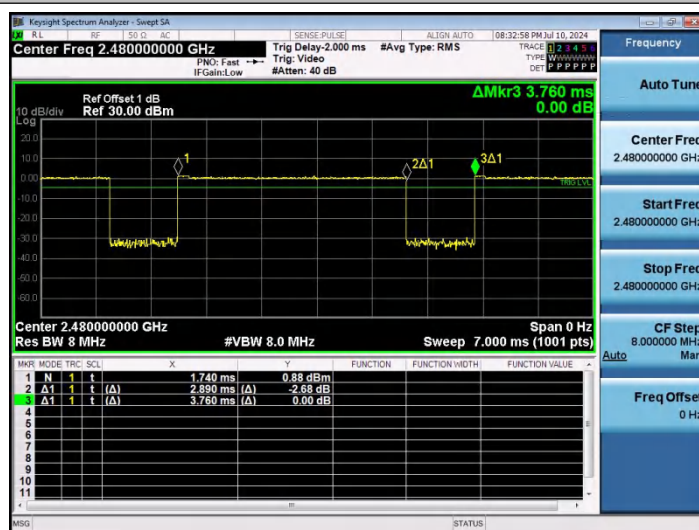




NTNV-2DH5-Ant1-2402

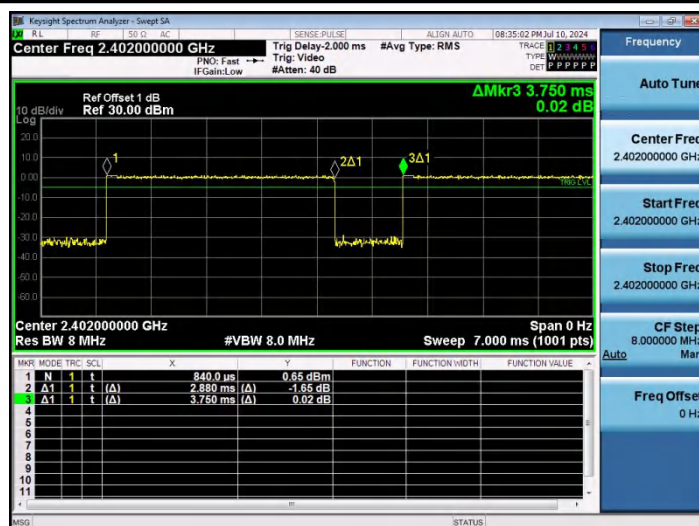


NTNV-2DH5-Ant1-2441

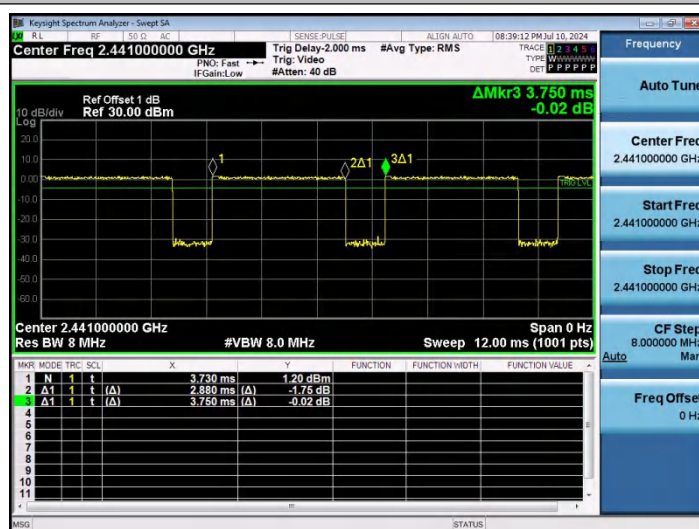


NTNV-2DH5-Ant1-2480

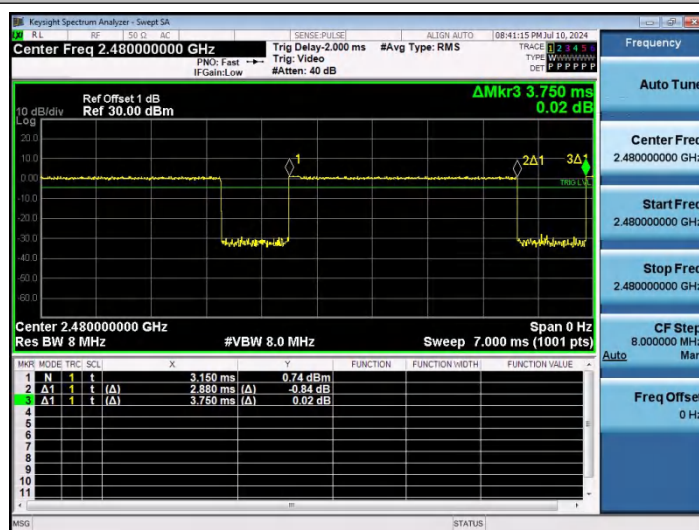




NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---End---

