Appendix Test Data

Report No.:	1812C50357812501	Test Sample No.:	1-2-2
Start Test Date:	2025-08-13	Finish Test Date:	2025-08-14
Test Engineer:	Alex Reng	Auditor:	Justin Feng
Temperature:	26.7℃	Relative Humidity:	58%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.975	2401.493	2402.468	---	---
DH5	Ant1	2441	0.957	2440.496	2441.453	---	---
DH5	Ant1	2480	0.975	2479.493	2480.468	---	---
2DH5	Ant1	2402	1.293	2401.328	2402.621	---	---
2DH5	Ant1	2441	1.287	2440.331	2441.618	---	---
2DH5	Ant1	2480	1.308	2479.313	2480.621	---	---
3DH5	Ant1	2402	1.365	2401.280	2402.645	---	---
3DH5	Ant1	2441	1.332	2440.304	2441.636	---	---
3DH5	Ant1	2480	1.296	2479.319	2480.615	---	---

Test Graphs

DH5-Ant1-2402

DH5-Ant1-2441

DH5-Ant1-2480

2DH5-Ant1-2402

2DH5-Ant1-2441

2DH5-Ant1-2480

3DH5-Ant1-2402

3DH5-Ant1-2441

3DH5-Ant1-2480

Appendix B: 99% Occupied Bandwidth

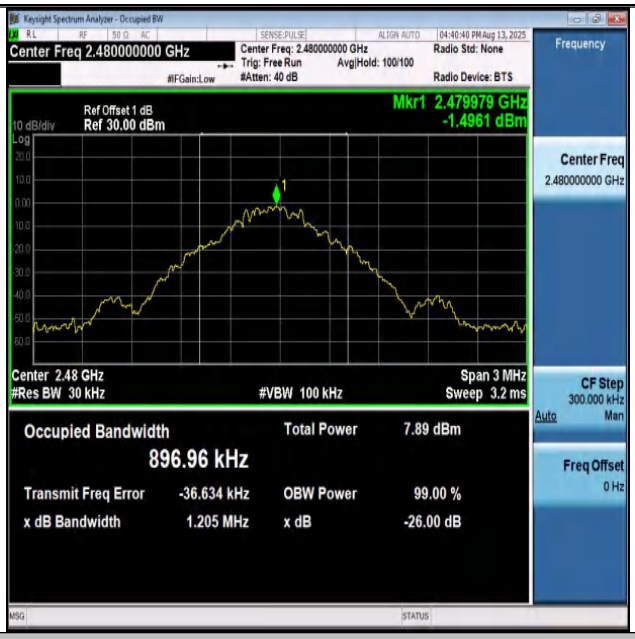
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87718	2401.5257	2402.4029	---	---
DH5	Ant1	2441	0.88050	2440.5242	2441.4047	---	---
DH5	Ant1	2480	0.89696	2479.5149	2480.4119	---	---
2DH5	Ant1	2402	1.1969	2401.3660	2402.5629	---	---
2DH5	Ant1	2441	1.1890	2440.3690	2441.5580	---	---
2DH5	Ant1	2480	1.1846	2479.3684	2480.5530	---	---
3DH5	Ant1	2402	1.1893	2401.3665	2402.5558	---	---
3DH5	Ant1	2441	1.1730	2440.3822	2441.5552	---	---
3DH5	Ant1	2480	1.2084	2479.3571	2480.5655	---	---

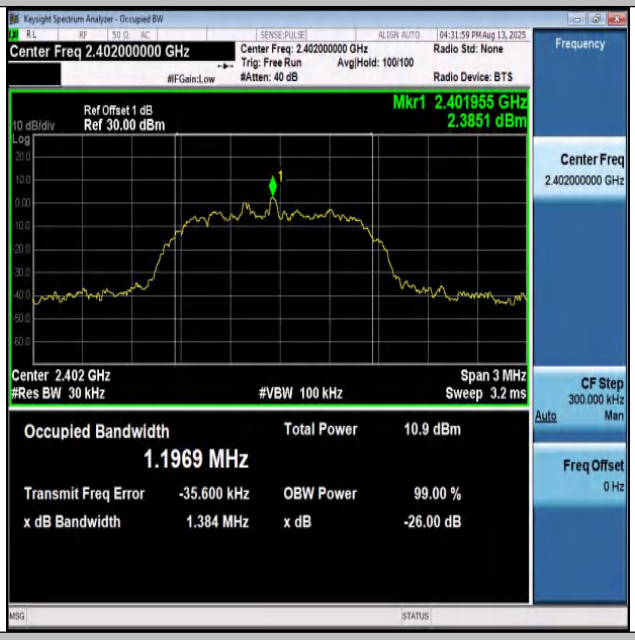
Test Graphs

DH5-Ant1-2402

DH5-Ant1-2441

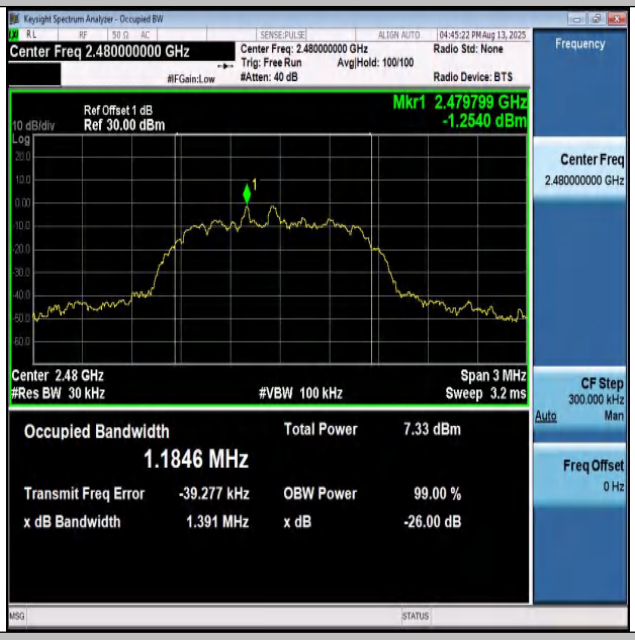


DH5-Ant1-2480

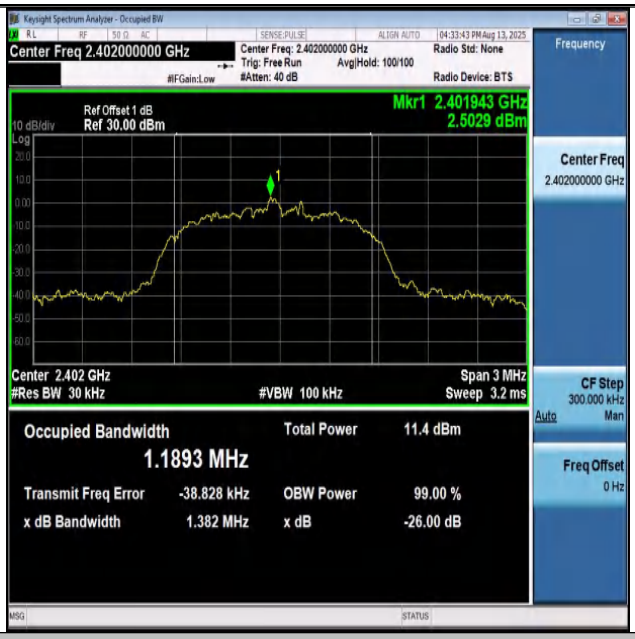


2DH5-Ant1-2402

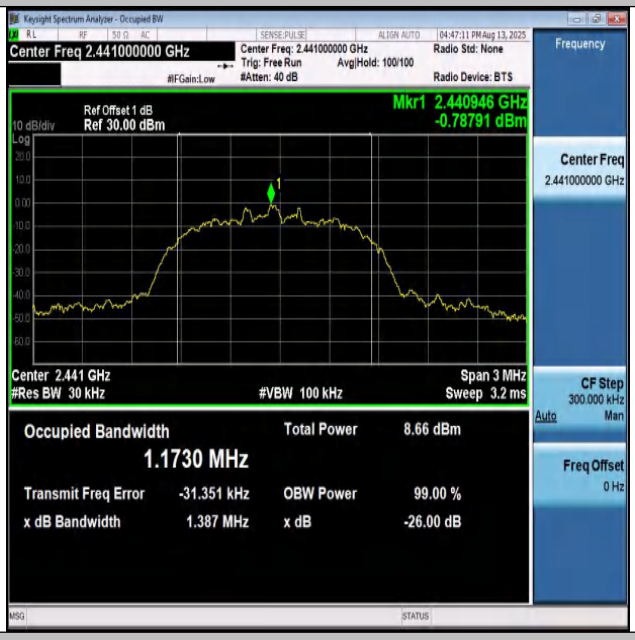
2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

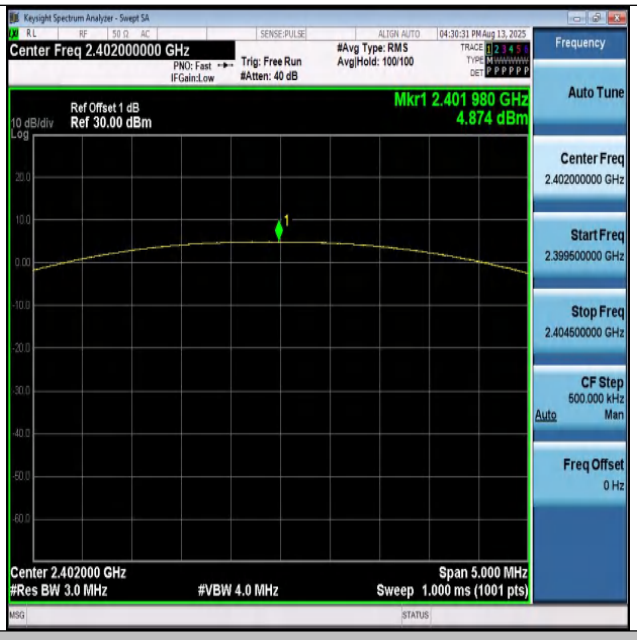
3DH5-Ant1-2480

Appendix C: Maximum Conducted Output Power

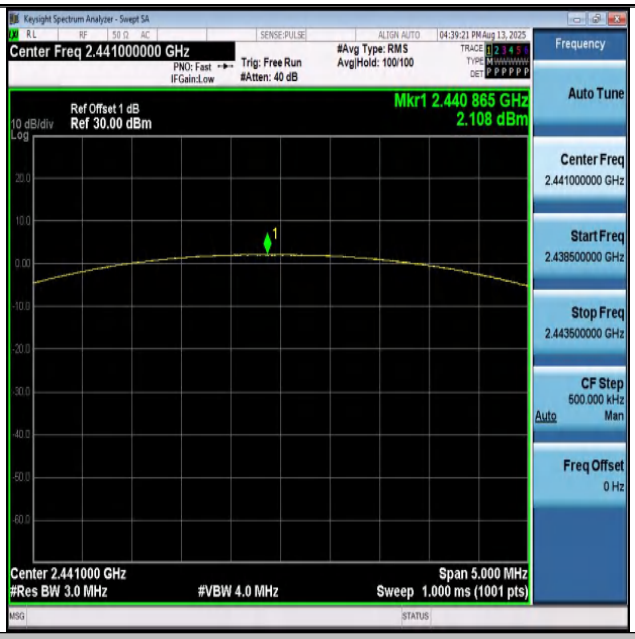
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.87	≤20.97	PASS
DH5	Ant1	2441	2.11	≤20.97	PASS
DH5	Ant1	2480	1.16	≤20.97	PASS
2DH5	Ant1	2402	5.53	≤20.97	PASS
2DH5	Ant1	2441	2.90	≤20.97	PASS
2DH5	Ant1	2480	2.05	≤20.97	PASS
3DH5	Ant1	2402	5.87	≤20.97	PASS
3DH5	Ant1	2441	1.59	≤20.97	PASS
3DH5	Ant1	2480	2.26	≤20.97	PASS

Test Graphs

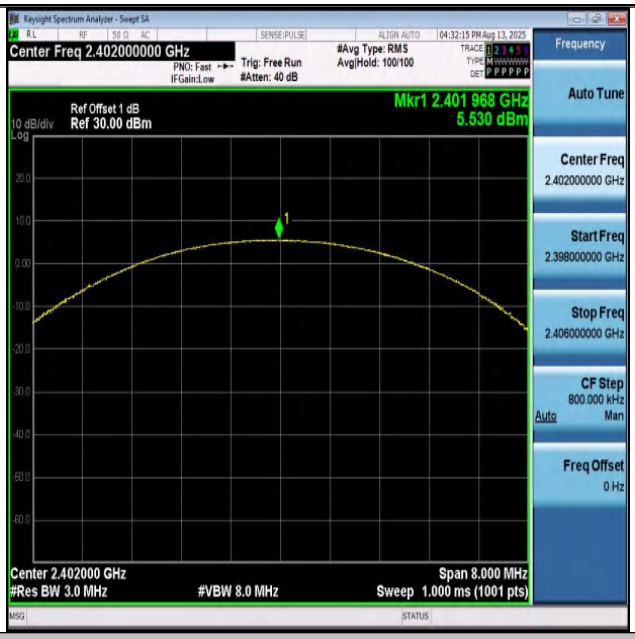


DH5-Ant1-2402-PASS

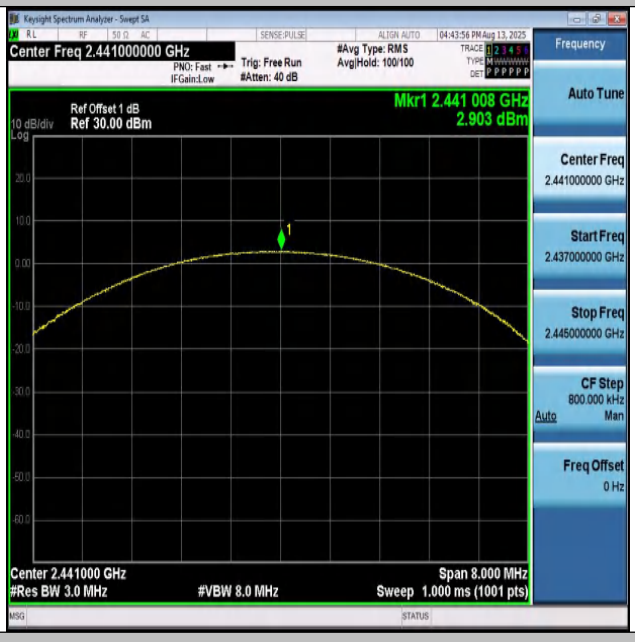


DH5-Ant1-2441-PASS

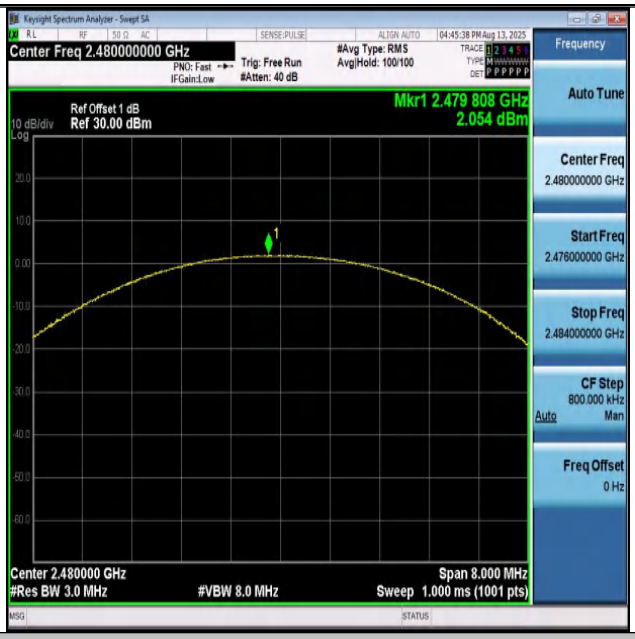
DH5-Ant1-2480-PASS



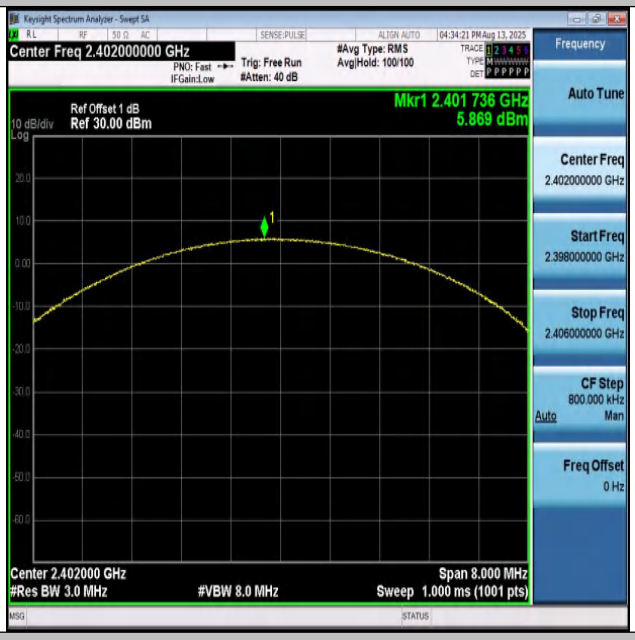
2DH5-Ant1-2402-PASS



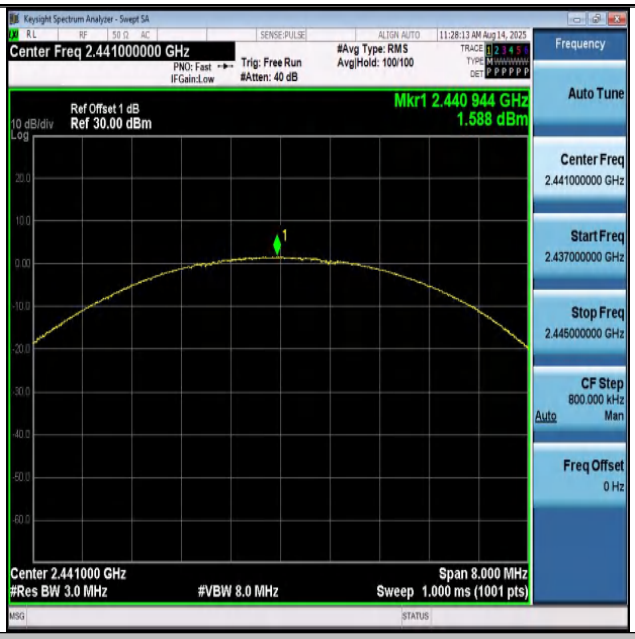
2DH5-Ant1-2441-PASS



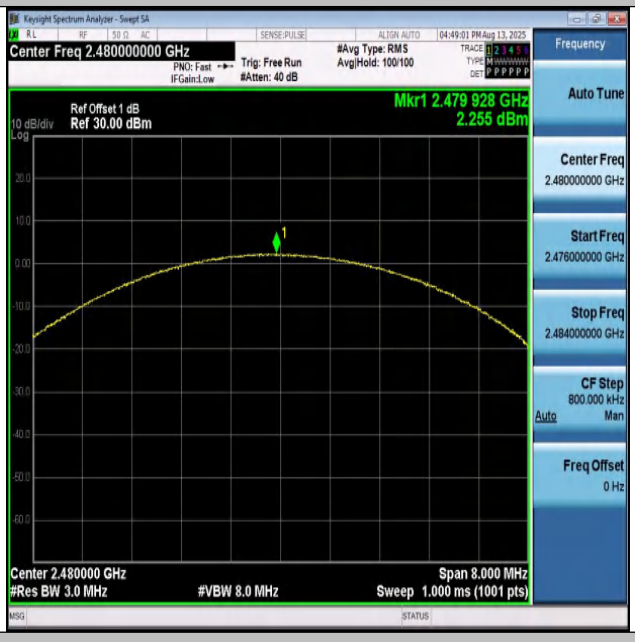
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.84	≥0.650	PASS
2DH5	Ant1	Hop	1.202	≥0.872	PASS
3DH5	Ant1	Hop	0.998	≥0.910	PASS

Test Graphs

DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS

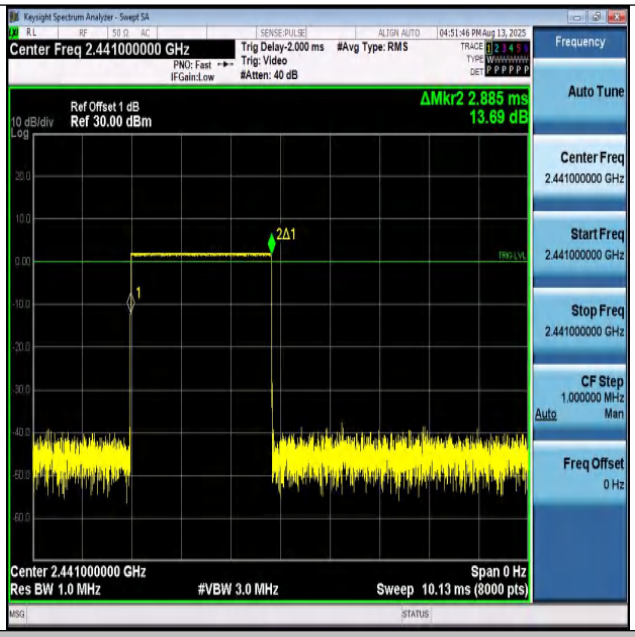
3DH5-Ant1-Hop-PASS

Appendix E: Dwell Time

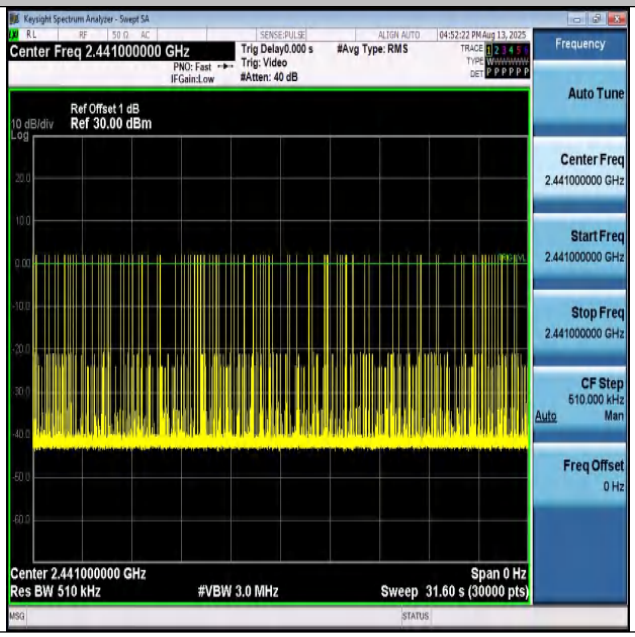
Test Result

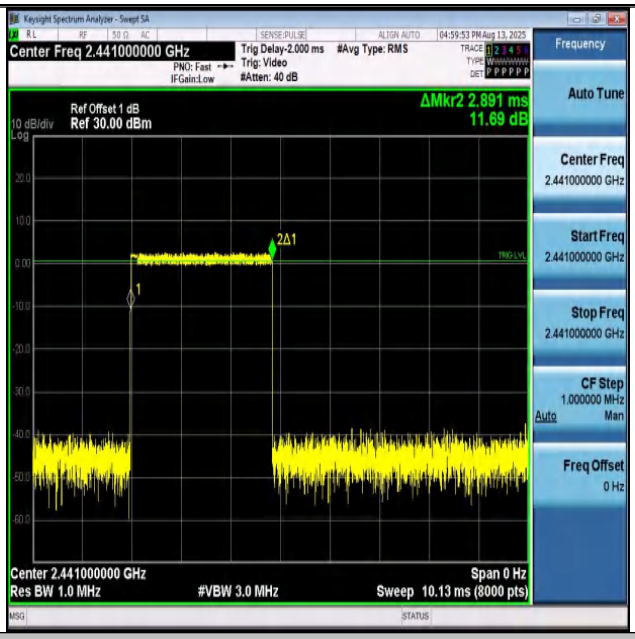
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	116	0.335	≤0.4	PASS
2DH5	Ant1	Hop	2.891	107	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.893	113	0.327	≤0.4	PASS

Test Graphs

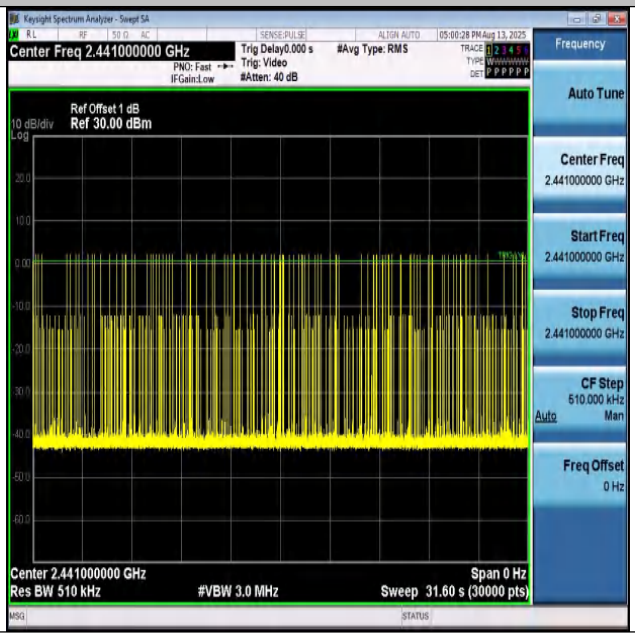


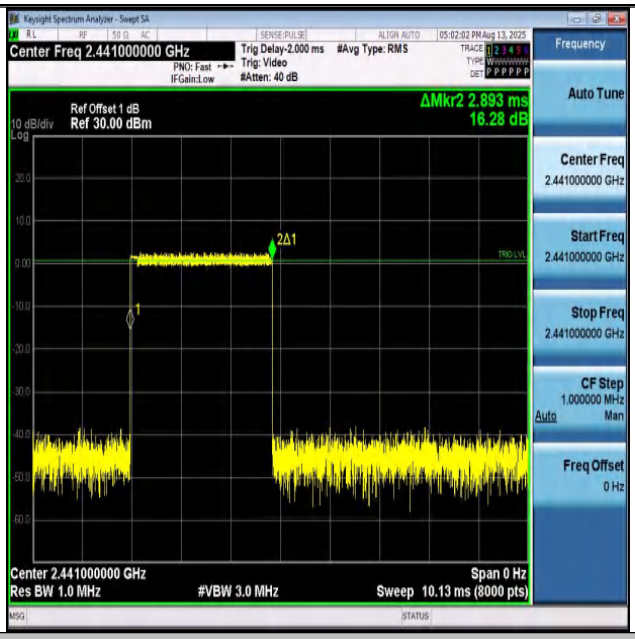
DH5-Ant1-Hop-PASS



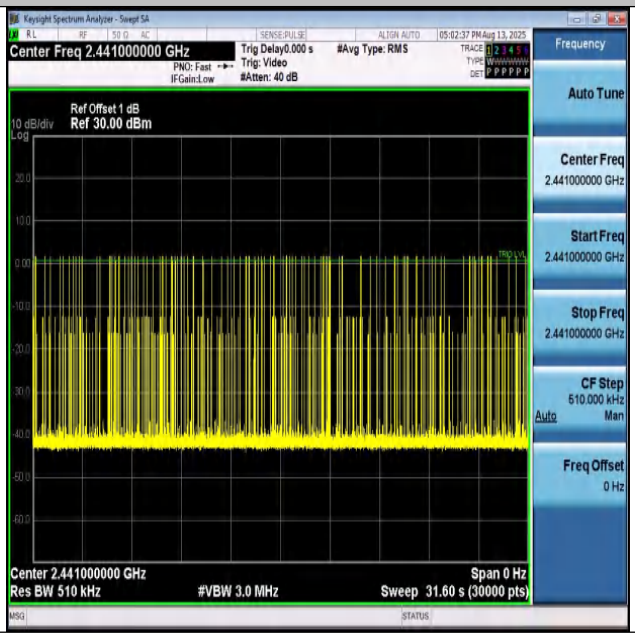


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

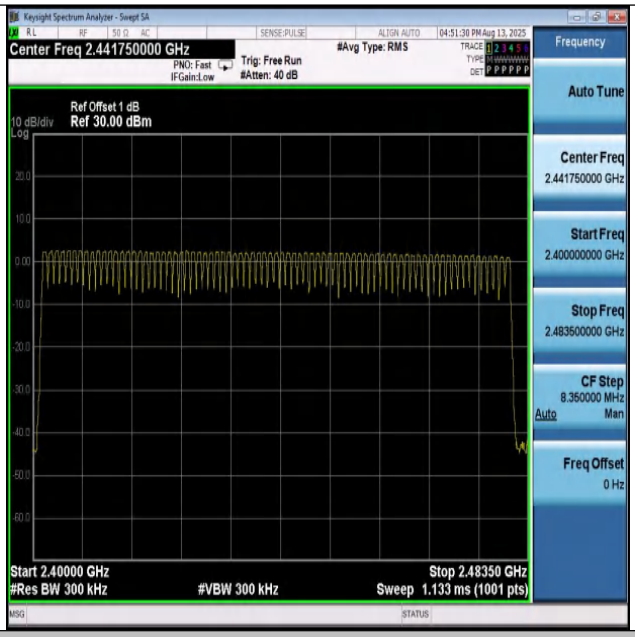


Appendix F: Number of Hopping Channel

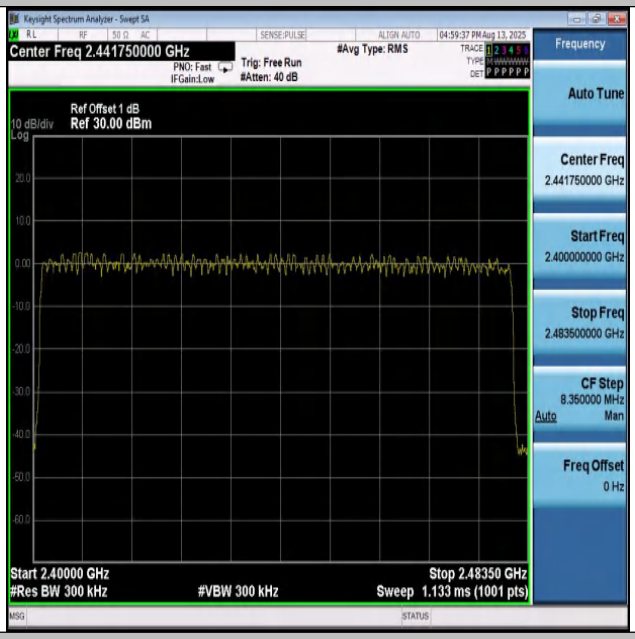
Test Result

Test Mode	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

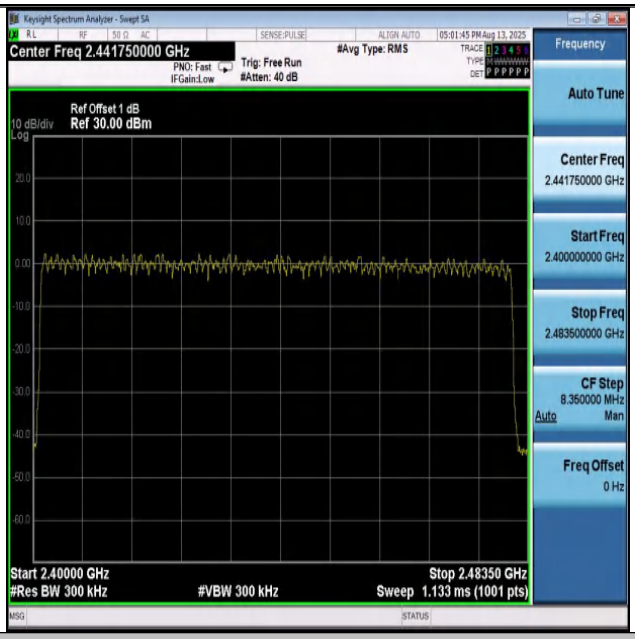
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

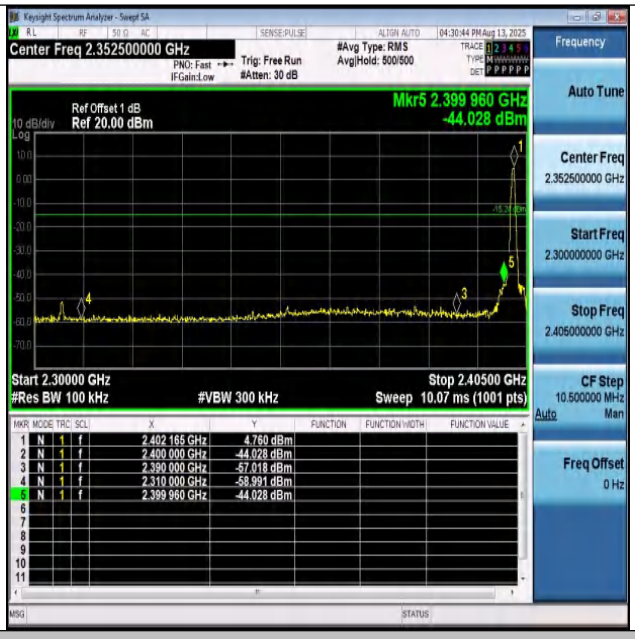
Appendix G: Conducted Band edge

Test Result

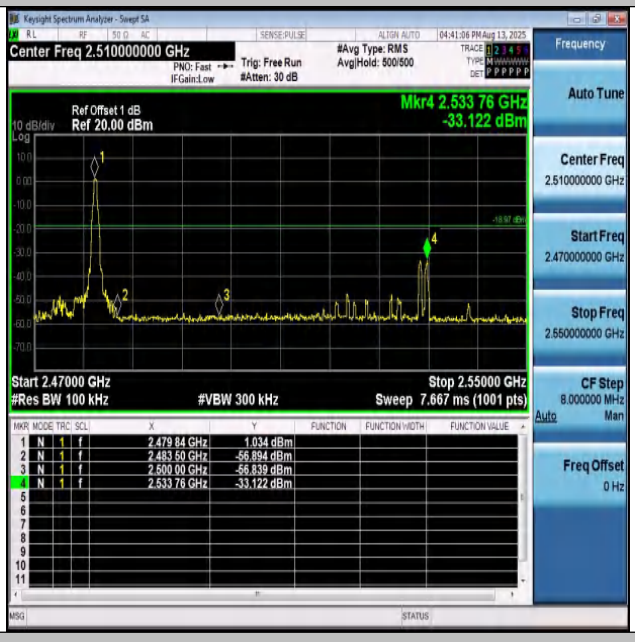
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.76	-44.03	≤-15.24	PASS
DH5	Ant1	High	2480	1.03	-33.12	≤-18.97	PASS
DH5	Ant1	Low	Hop_2402	2.10	-51.71	≤-17.9	PASS
DH5	Ant1	High	Hop_2480	1.00	-52.3	≤-19	PASS
2DH5	Ant1	Low	2402	4.69	-45.95	≤-15.31	PASS
2DH5	Ant1	High	2480	0.89	-54.85	≤-19.11	PASS
2DH5	Ant1	Low	Hop_2402	2.29	-54.78	≤-17.71	PASS
2DH5	Ant1	High	Hop_2480	1.02	-54.33	≤-18.98	PASS
3DH5	Ant1	Low	2402	4.71	-47.64	≤-15.29	PASS
3DH5	Ant1	High	2480	0.93	-55.02	≤-19.07	PASS
3DH5	Ant1	Low	Hop_2402	1.95	-53.85	≤-18.05	PASS
3DH5	Ant1	High	Hop_2480	-0.98	-54.84	≤-20.98	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

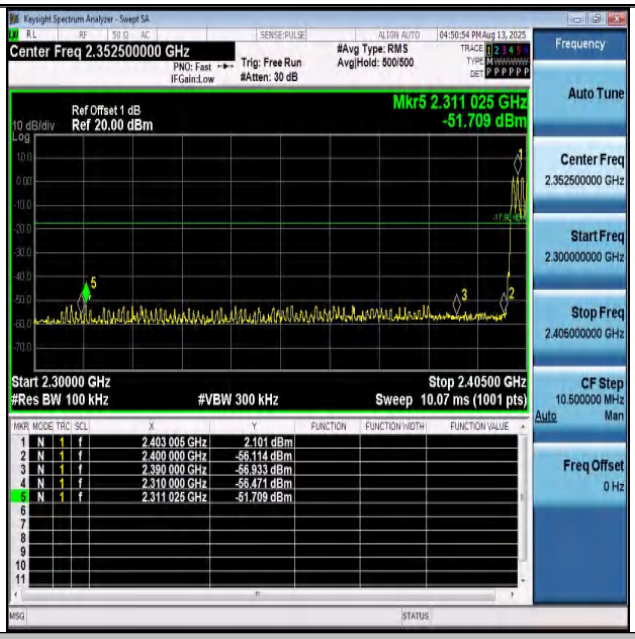
Test Graphs



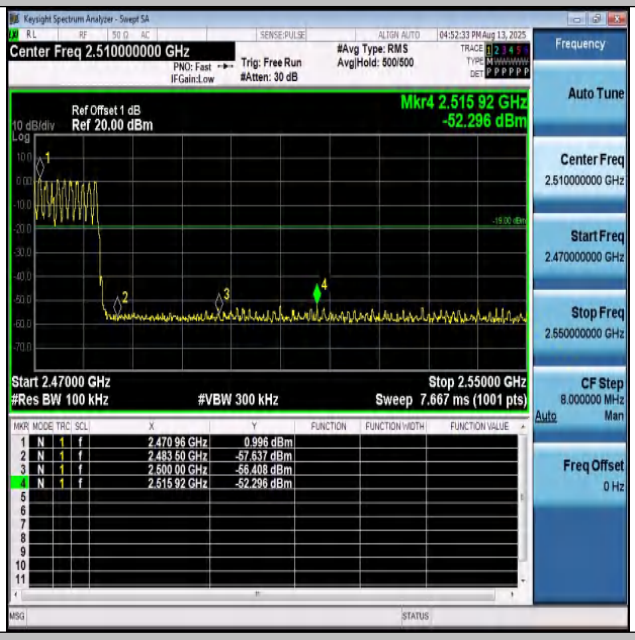
DH5-Ant1-2402-PASS



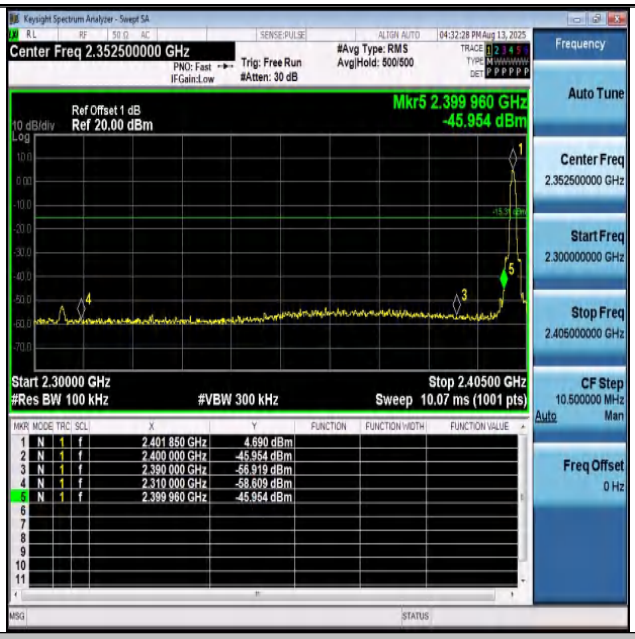
DH5-Ant1-2480-PASS



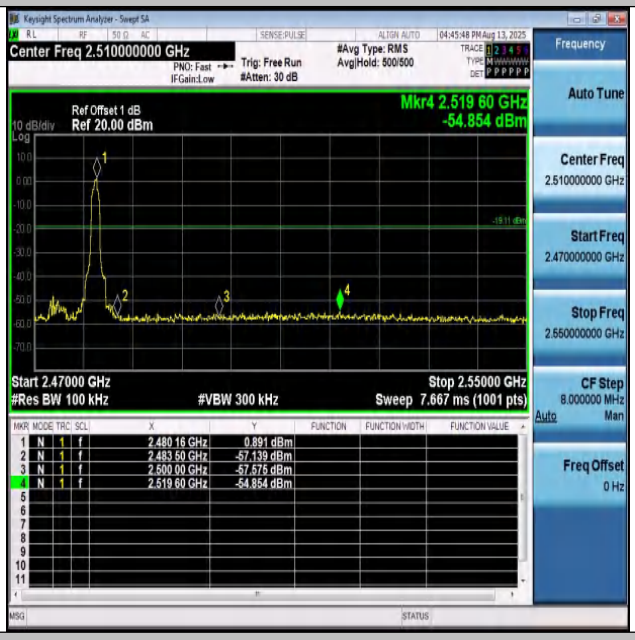
DH5-Ant1-Hop_2402-PASS



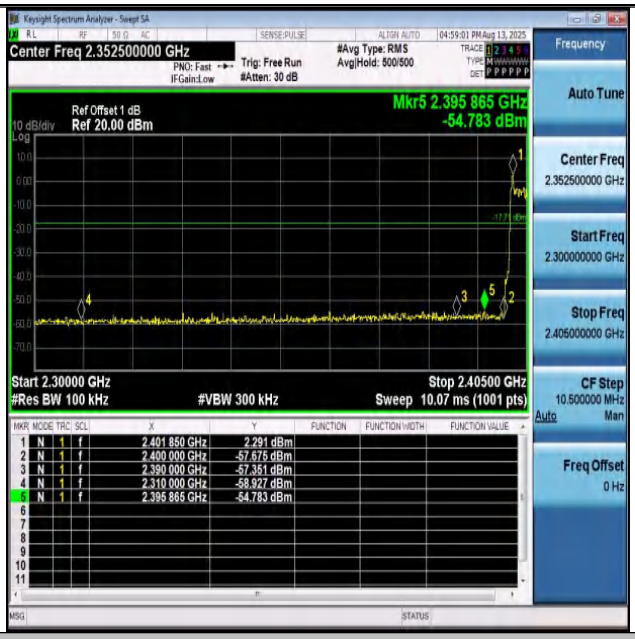
DH5-Ant1-Hop_2480-PASS



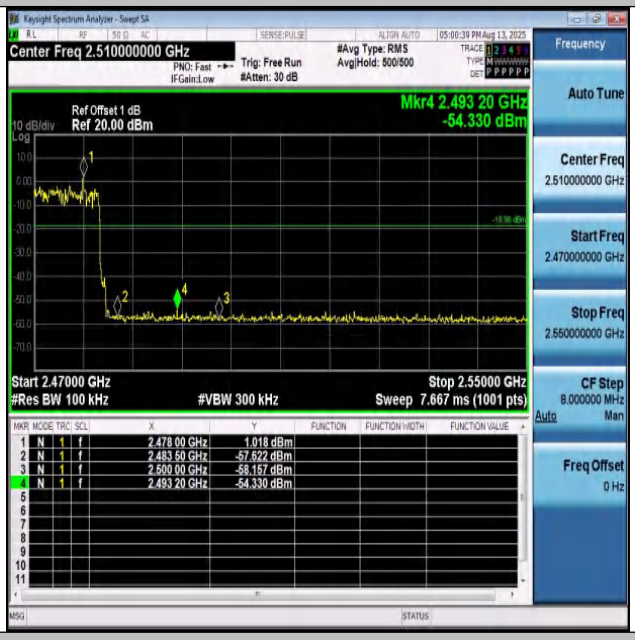
2DH5-Ant1-2402-PASS



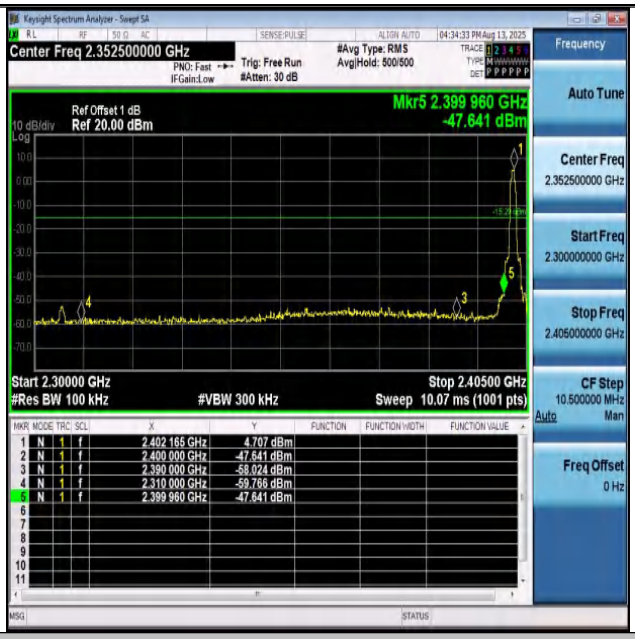
2DH5-Ant1-2480-PASS



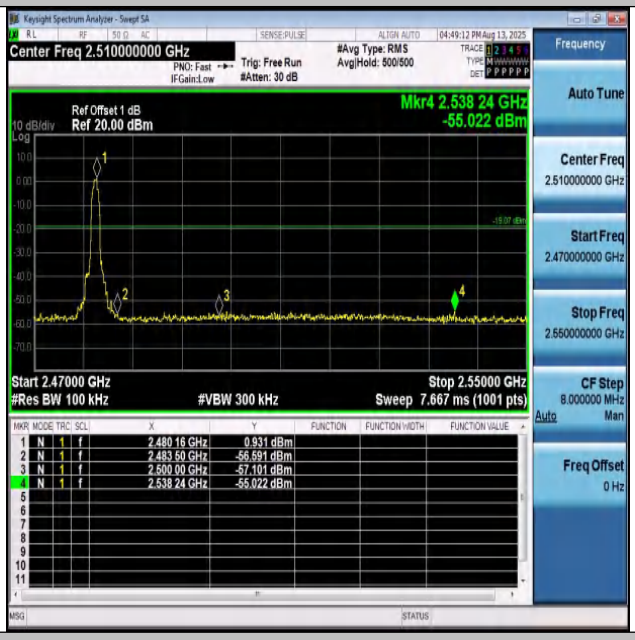
2DH5-Ant1-Hop_2402-PASS



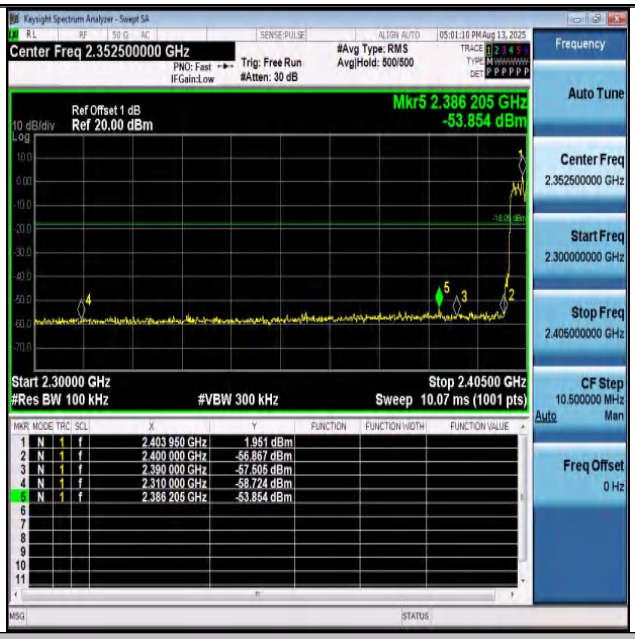
2DH5-Ant1-Hop_2480-PASS



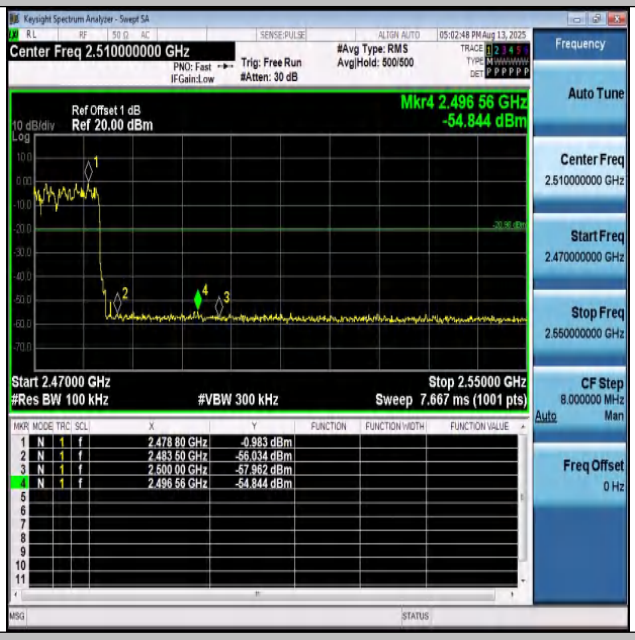
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

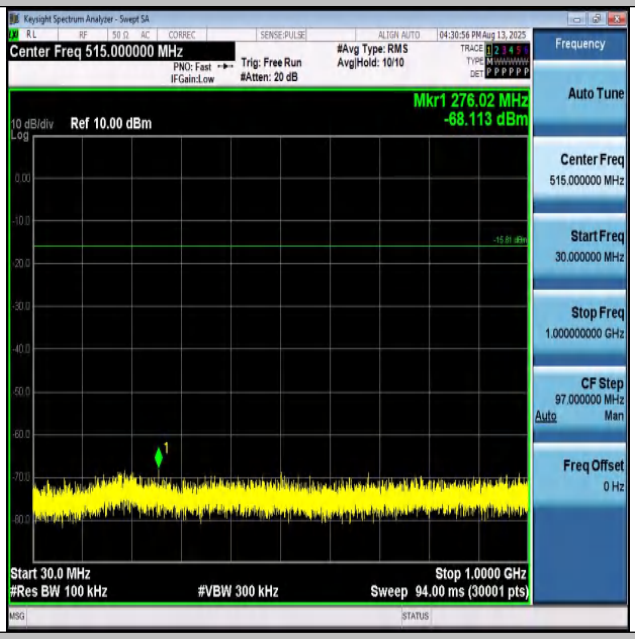
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	4.19	4.19	---	PASS
DH5	Ant1	2402	30~1000	4.19	-68.11	≤-15.81	PASS
DH5	Ant1	2402	1000~26500	4.19	-40.07	≤-15.81	PASS
DH5	Ant1	2441	0~Reference	1.26	1.26	---	PASS
DH5	Ant1	2441	30~1000	1.26	-68.41	≤-18.74	PASS
DH5	Ant1	2441	1000~26500	1.26	-42.02	≤-18.74	PASS
DH5	Ant1	2480	0~Reference	0.46	0.46	---	PASS
DH5	Ant1	2480	30~1000	0.46	-66.56	≤-19.54	PASS
DH5	Ant1	2480	1000~26500	0.46	-40.48	≤-19.54	PASS
2DH5	Ant1	2402	0~Reference	3.18	3.18	---	PASS
2DH5	Ant1	2402	30~1000	3.18	-68.42	≤-16.82	PASS
2DH5	Ant1	2402	1000~26500	3.18	-40.44	≤-16.82	PASS
2DH5	Ant1	2441	0~Reference	1.59	1.59	---	PASS
2DH5	Ant1	2441	30~1000	1.59	-67.62	≤-18.41	PASS
2DH5	Ant1	2441	1000~26500	1.59	-41.89	≤-18.41	PASS
2DH5	Ant1	2480	0~Reference	0.42	0.42	---	PASS
2DH5	Ant1	2480	30~1000	0.42	-67.91	≤-19.58	PASS
2DH5	Ant1	2480	1000~26500	0.42	-40.04	≤-19.58	PASS
3DH5	Ant1	2402	0~Reference	1.52	1.52	---	PASS
3DH5	Ant1	2402	30~1000	1.52	-68.04	≤-18.48	PASS
3DH5	Ant1	2402	1000~26500	1.52	-37.72	≤-18.48	PASS
3DH5	Ant1	2441	0~Reference	-1.07	-1.07	---	PASS
3DH5	Ant1	2441	30~1000	-1.07	-68.48	≤-21.07	PASS
3DH5	Ant1	2441	1000~26500	-1.07	-42.24	≤-21.07	PASS
3DH5	Ant1	2480	0~Reference	-0.13	-0.13	---	PASS
3DH5	Ant1	2480	30~1000	-0.13	-68.2	≤-20.13	PASS
3DH5	Ant1	2480	1000~26500	-0.13	-39.97	≤-20.13	PASS

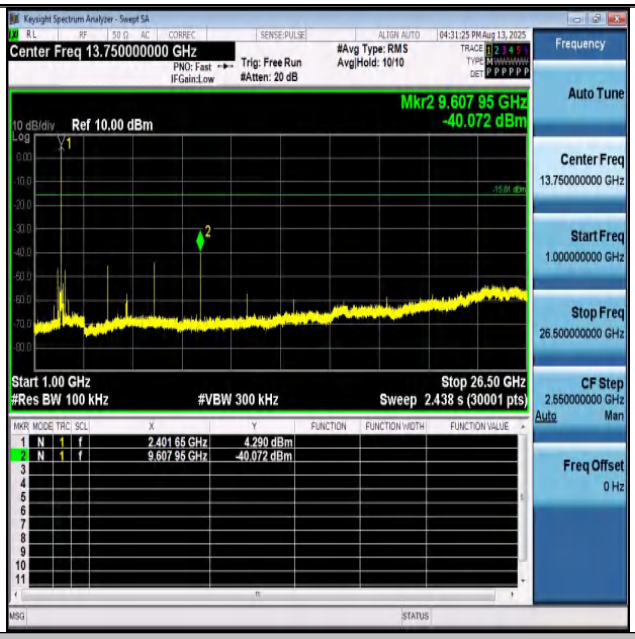
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

DH5-Ant1-2402-0~Reference-PASS

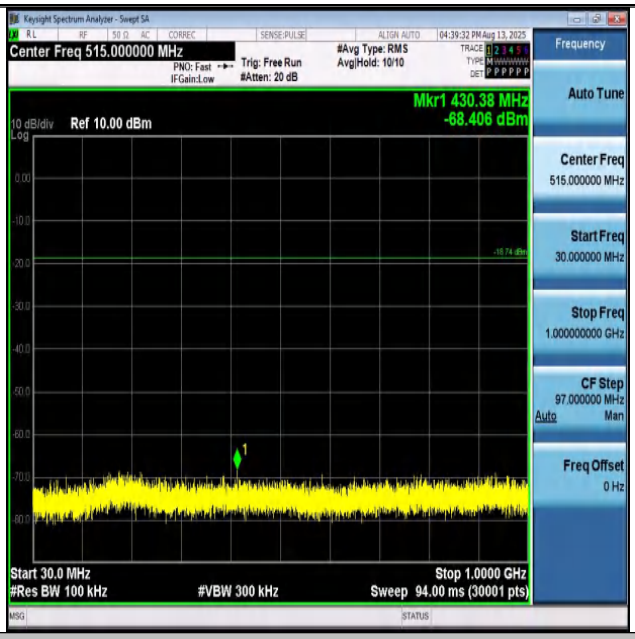


DH5-Ant1-2402-30~1000-PASS



DH5-Ant1-2402-1000~26500-PASS

DH5-Ant1-2441-0~Reference-PASS



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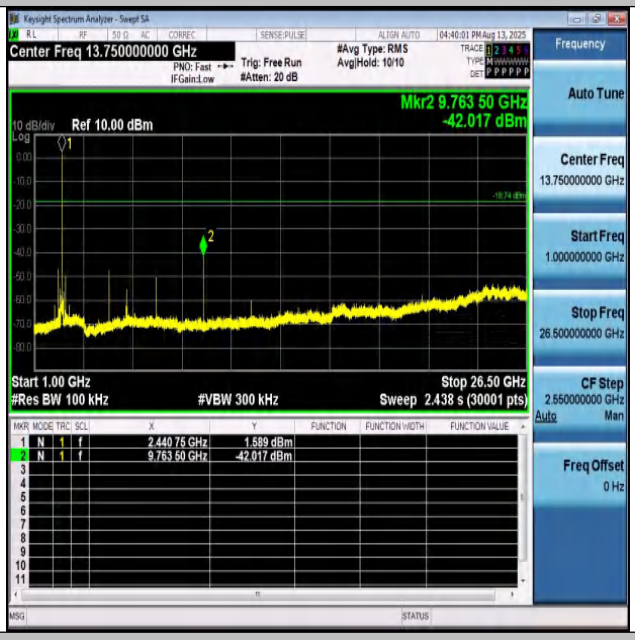
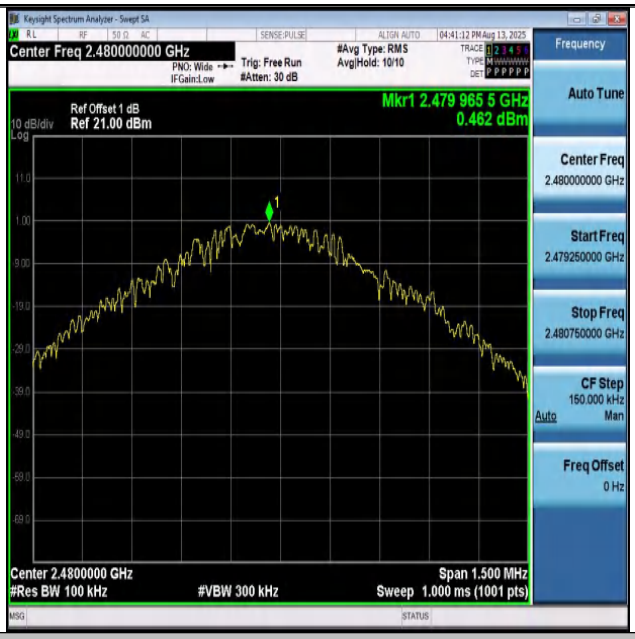


DH5-Ant1-2441-1000~26500-PASS



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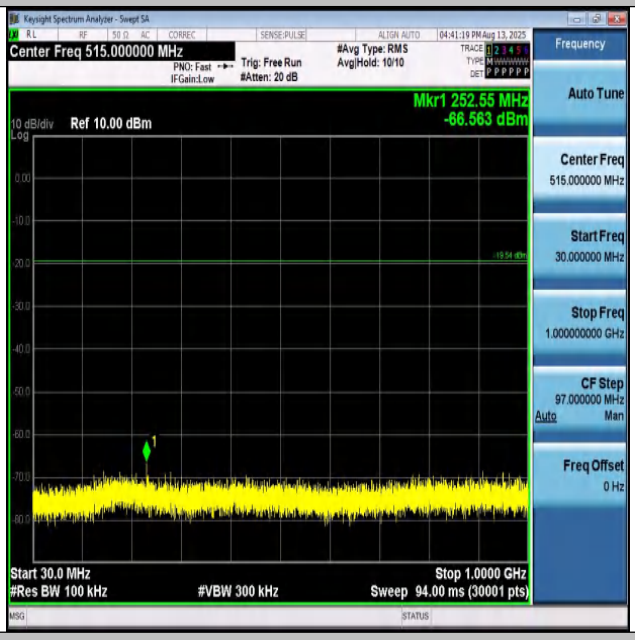

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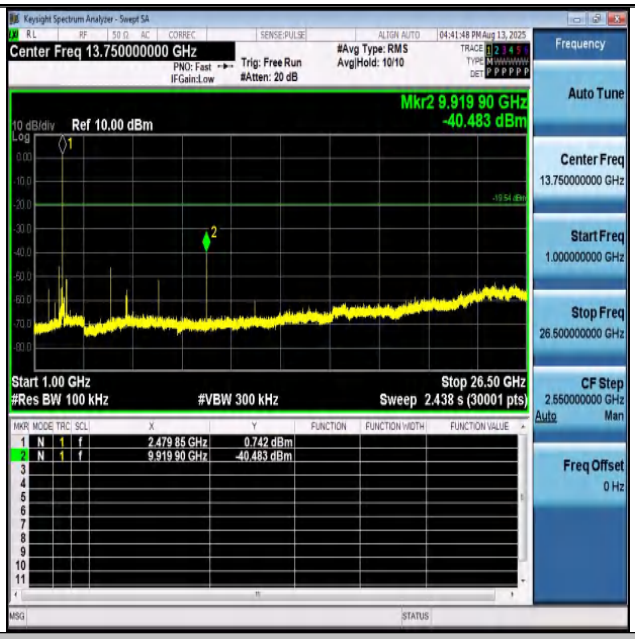
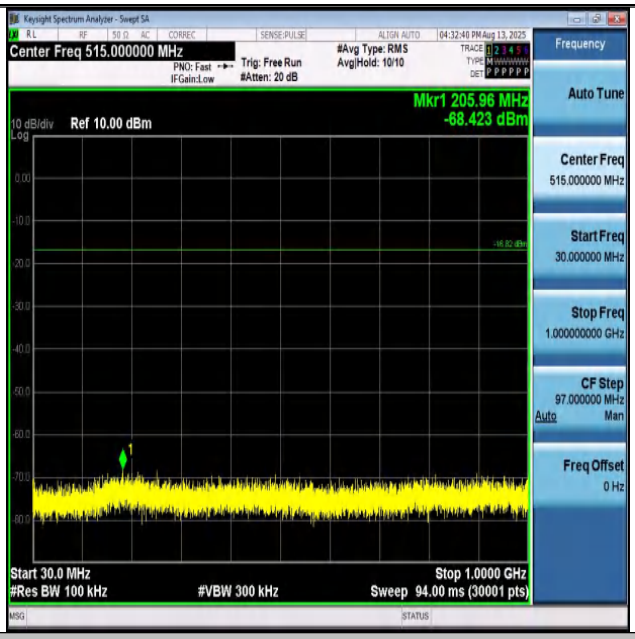


DH5-Ant1-2480-1000~26500-PASS

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



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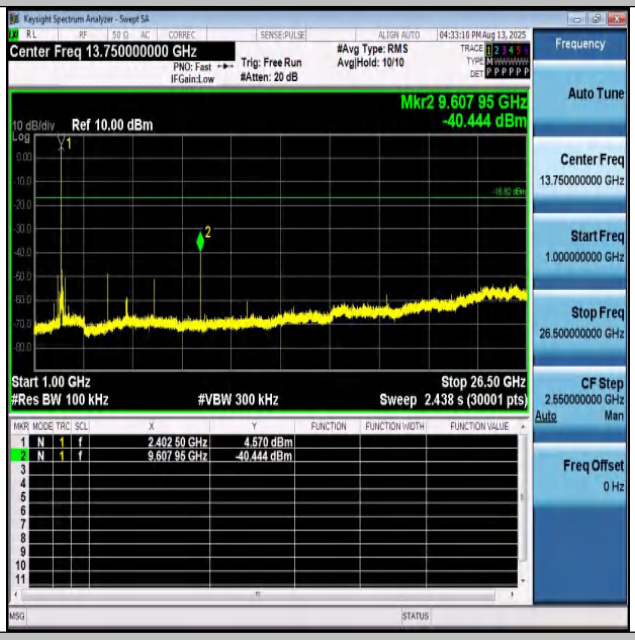

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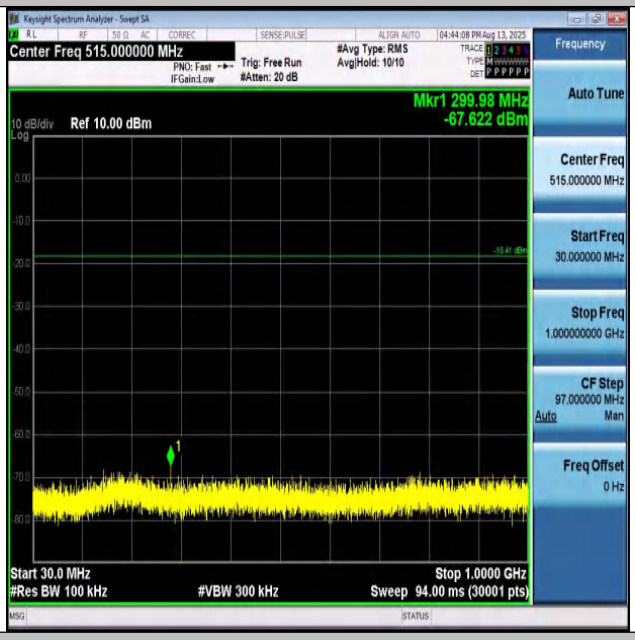
2DH5-Ant1-2441-0~Reference-PASS



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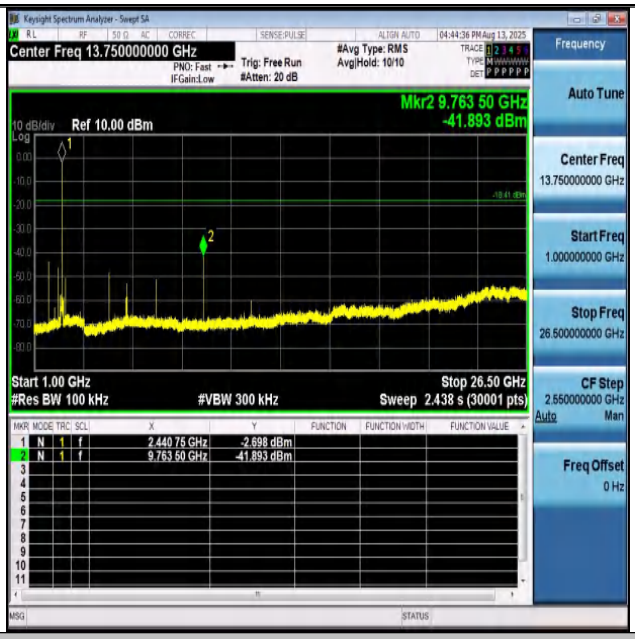
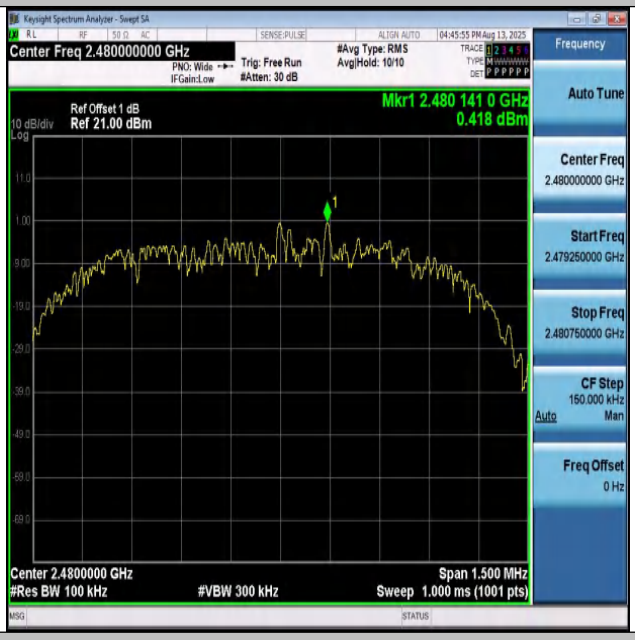
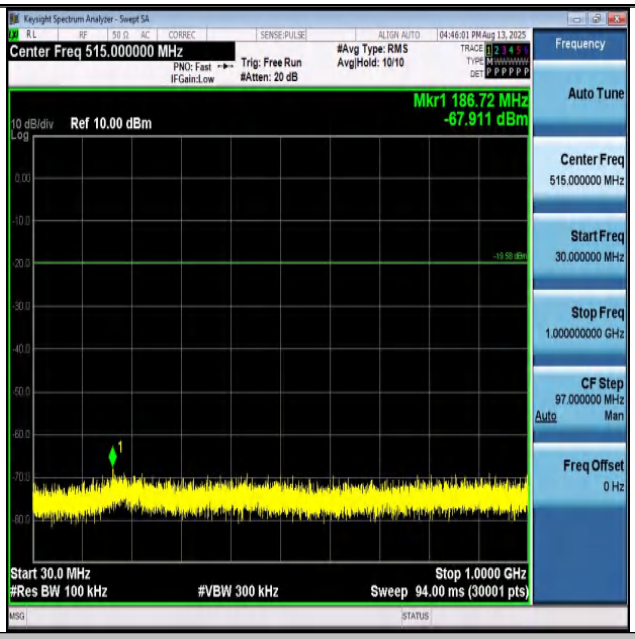


2DH5-Ant1-2441-1000~26500-PASS



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



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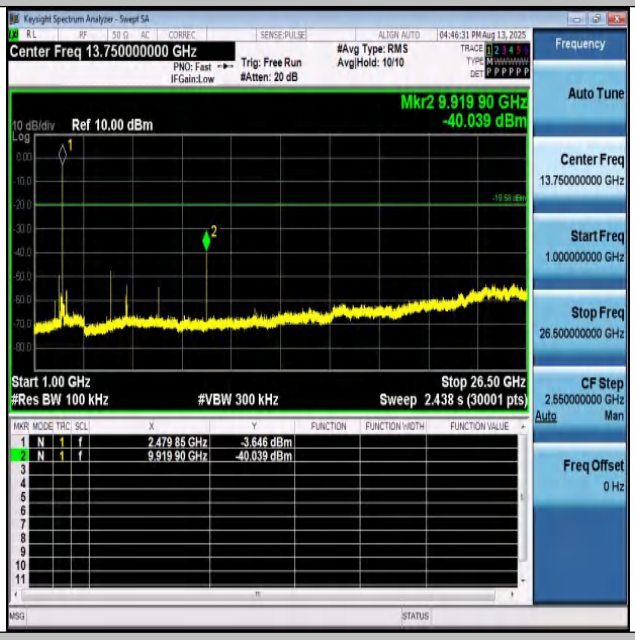
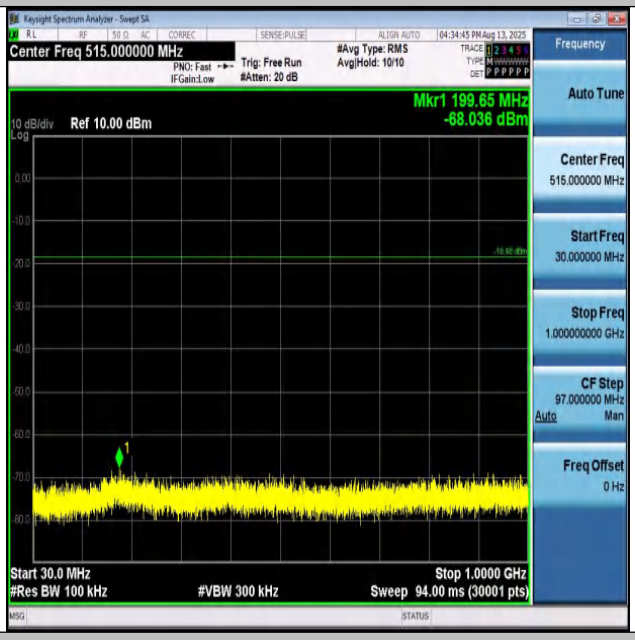
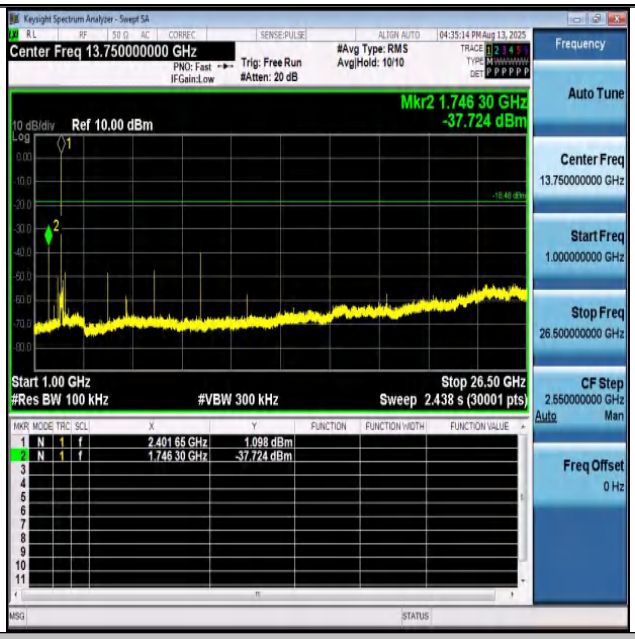


2DH5-Ant1-2480-1000~26500-PASS

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



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



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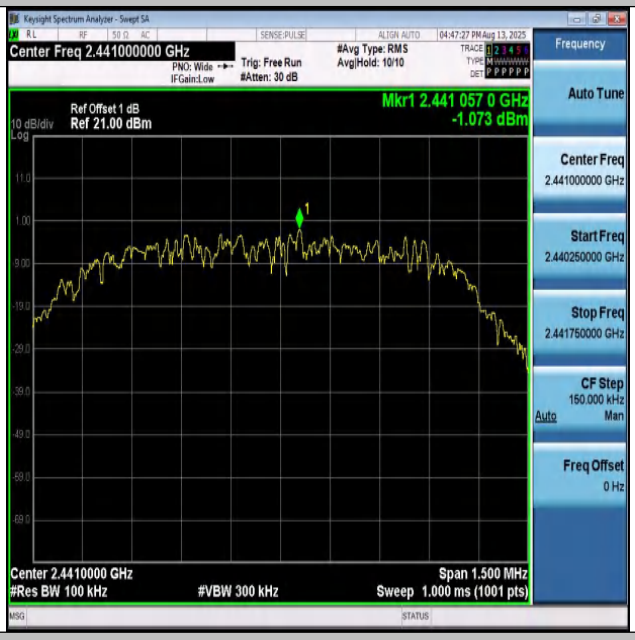
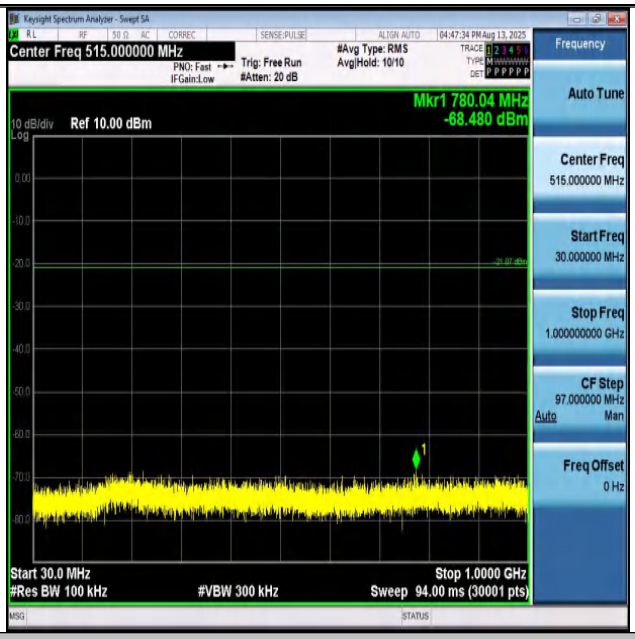


3DH5-Ant1-2441-0~Reference-PASS



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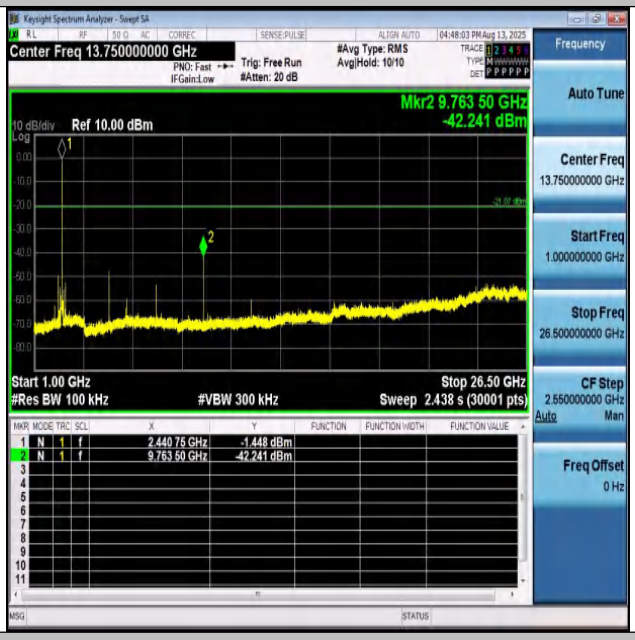

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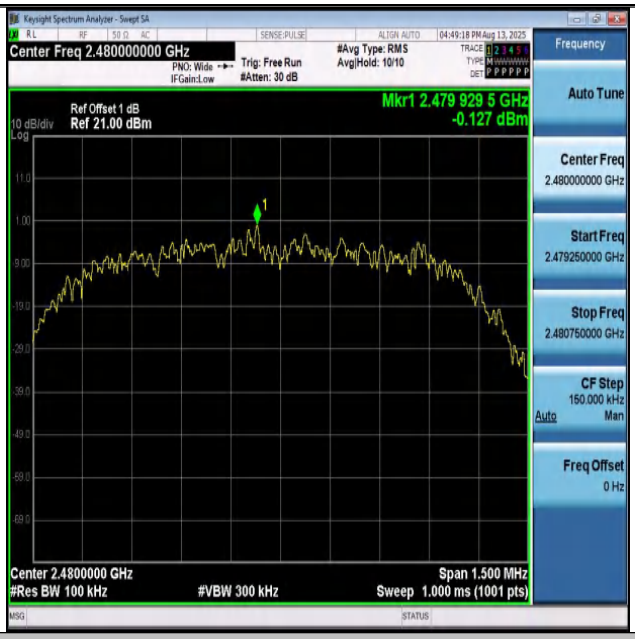
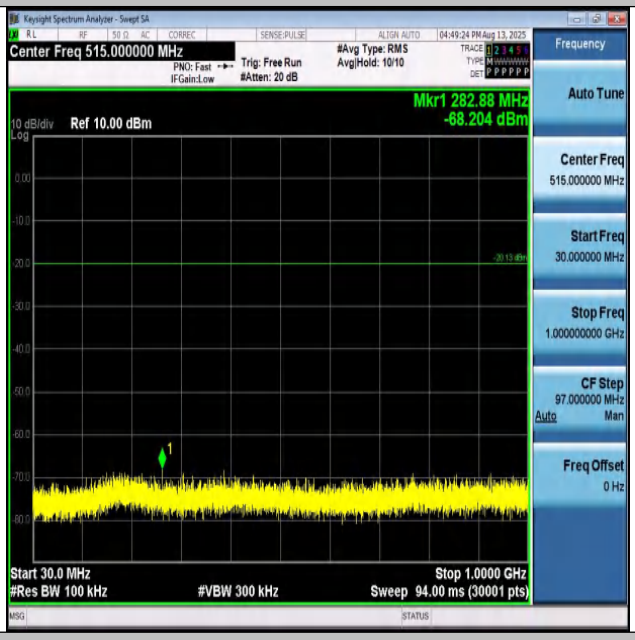
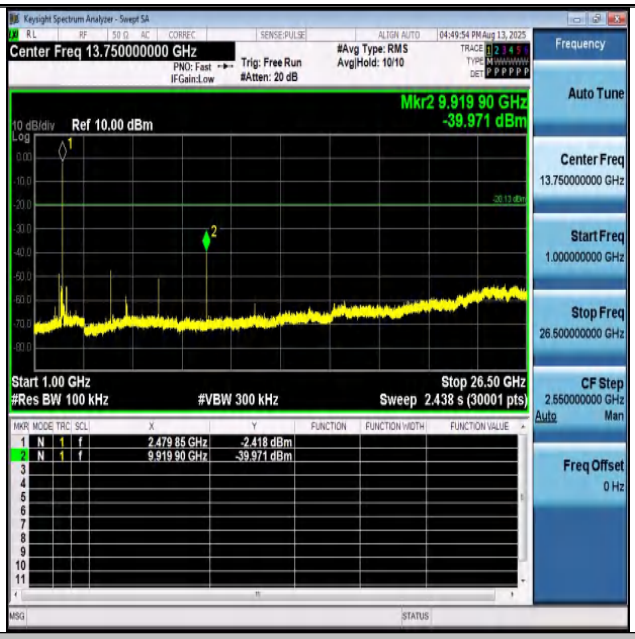


3DH5-Ant1-2480-0~Reference-PASS



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



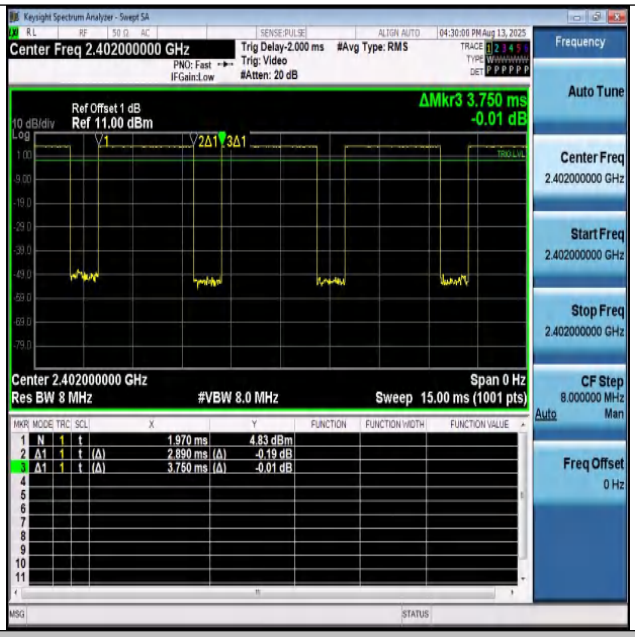
3DH5-Ant1-2480-1000~26500-PASS

Appendix I: Duty Cycle

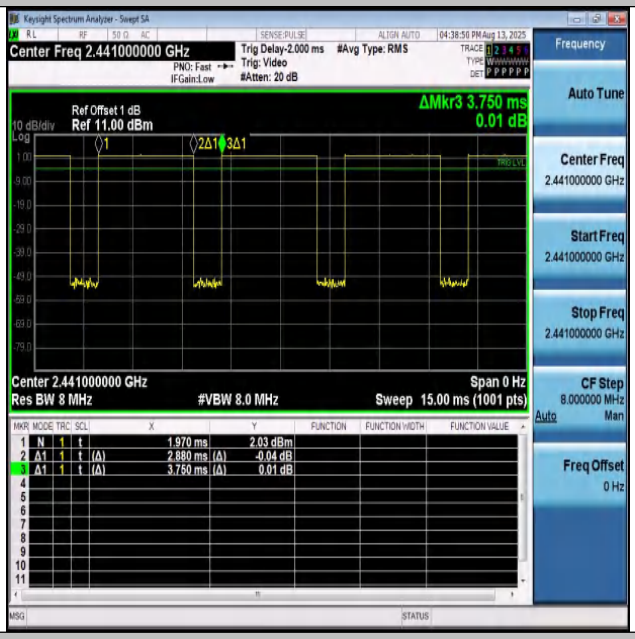
Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

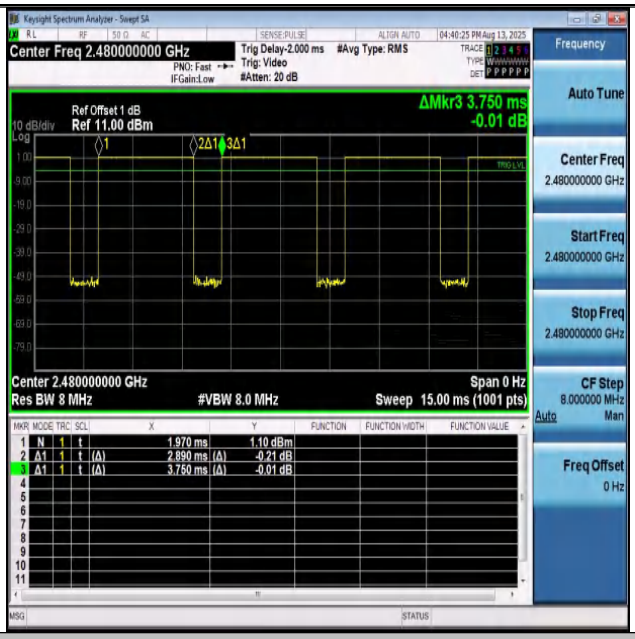
Test Graphs



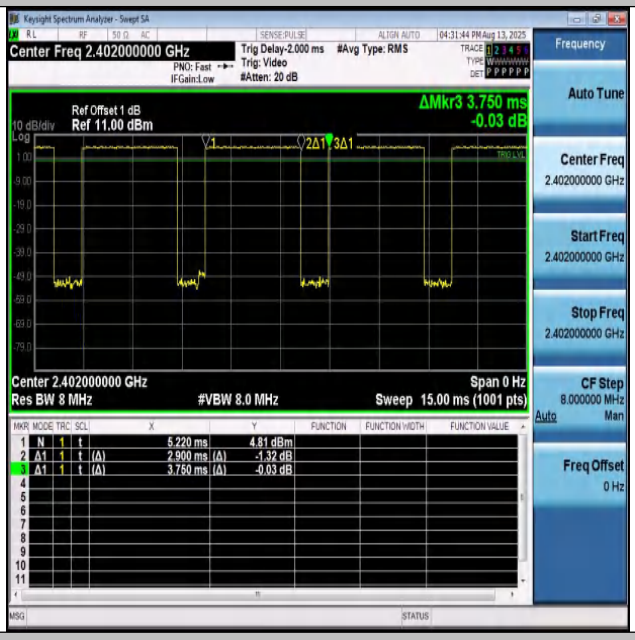
NTNV-DH5-Ant1-2402



NTNV-DH5-Ant1-2441



NTNV-DH5-Ant1-2480



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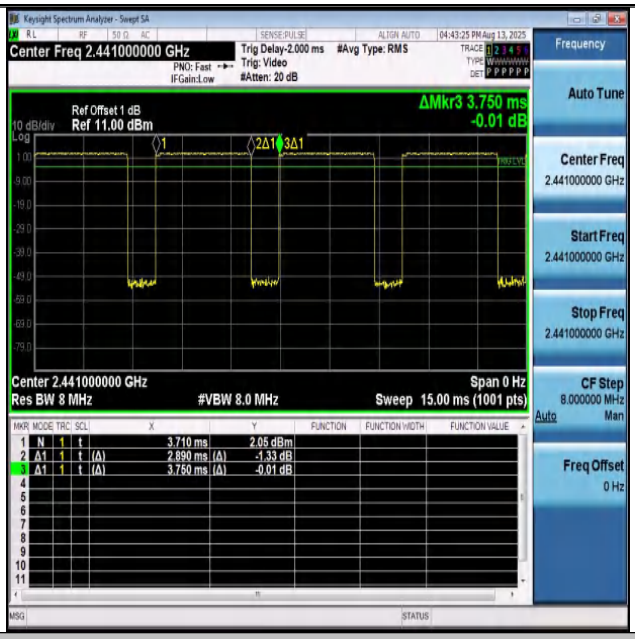
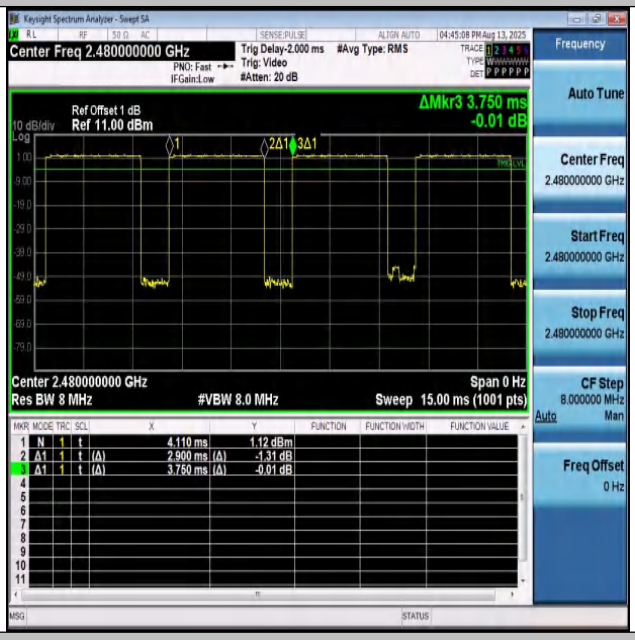


NTNV-2DH5-Ant1-2441



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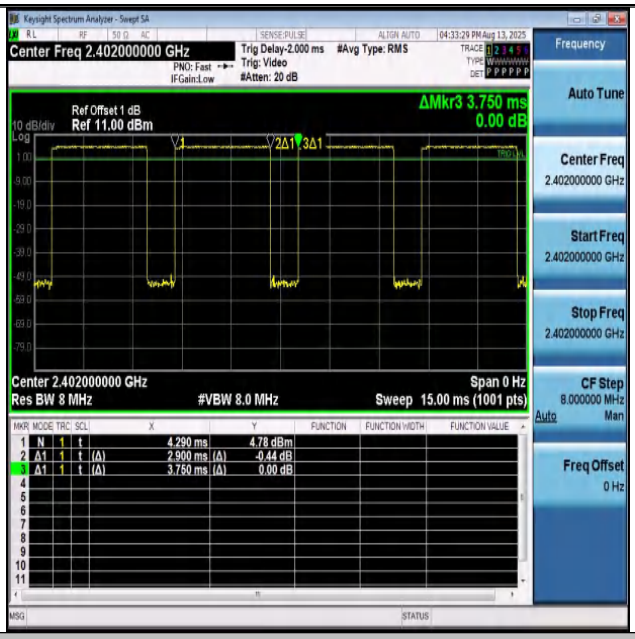
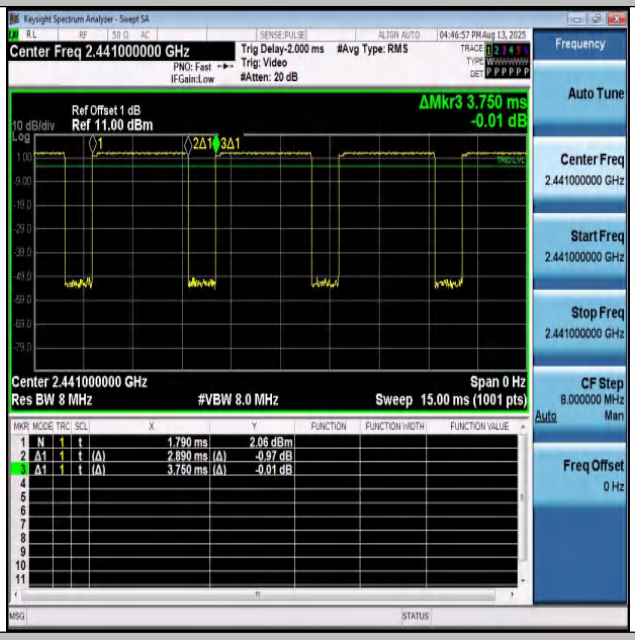
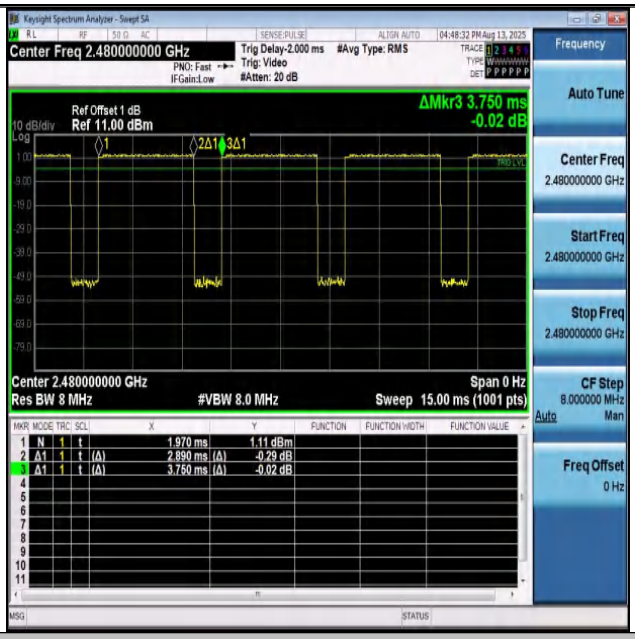


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---End---