

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: S1 PORTABLE BT SOUNDBAR

Trade Mark: SUPERSONIC

Test Model: S1

FCC ID: 2AA4B-S1-SC-1423SB

Environmental Conditions

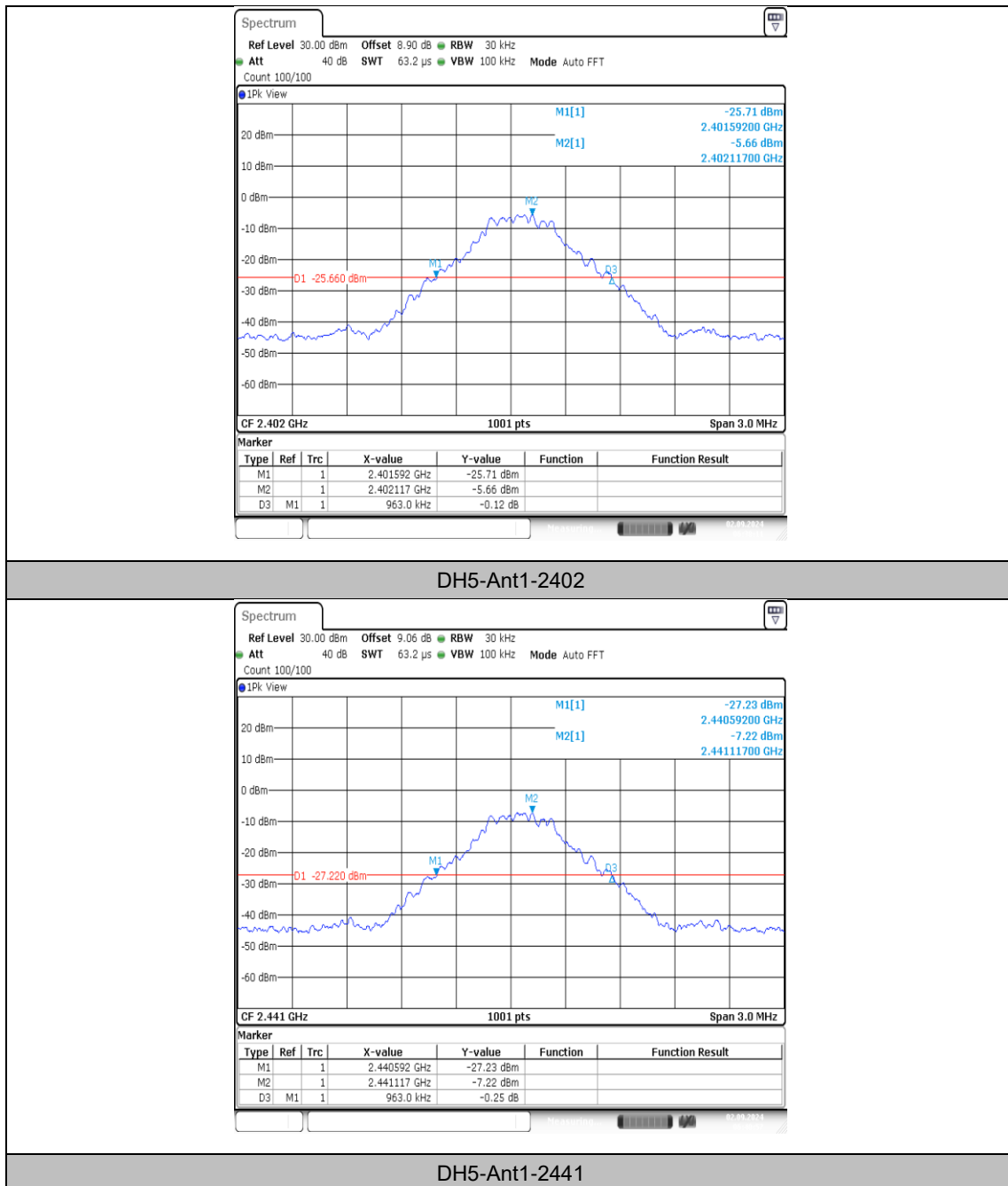
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

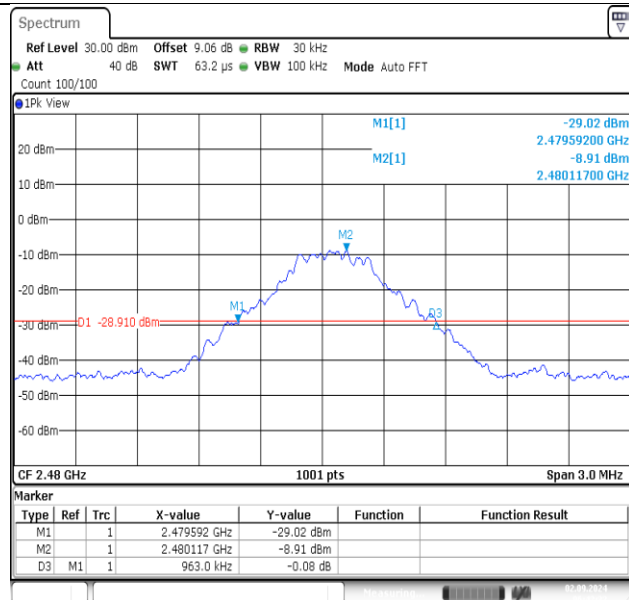
Appendix A: 20dB Emission Bandwidth

Test Result

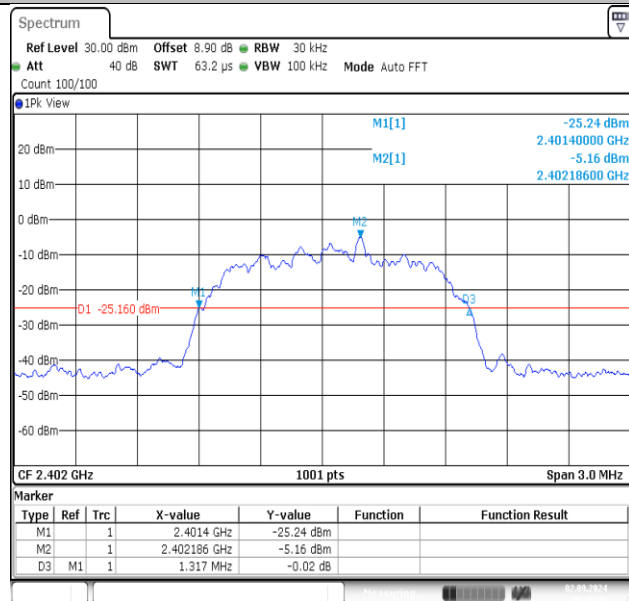
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	2401.59	2402.56	---	---
DH5	Ant1	2441	0.96	2440.59	2441.56	---	---
DH5	Ant1	2480	0.96	2479.59	2480.56	---	---
2DH5	Ant1	2402	1.32	2401.40	2402.72	---	---
2DH5	Ant1	2441	1.32	2440.40	2441.72	---	---
2DH5	Ant1	2480	1.33	2479.40	2480.72	---	---
3DH5	Ant1	2402	1.30	2401.41	2402.71	---	---
3DH5	Ant1	2441	1.30	2440.41	2441.71	---	---
3DH5	Ant1	2480	1.30	2479.41	2480.71	---	---

Test Graphs

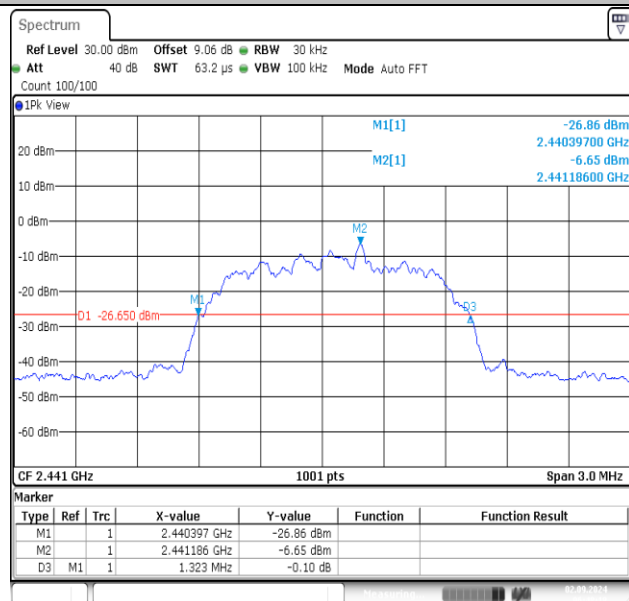




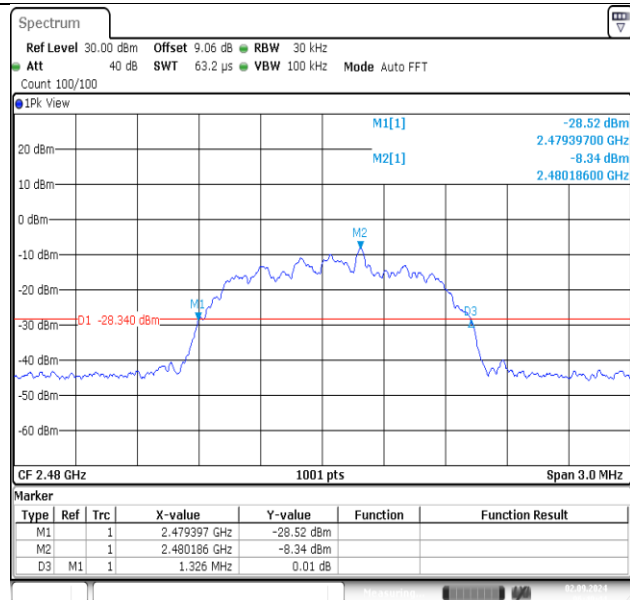
DH5-Ant1-2480



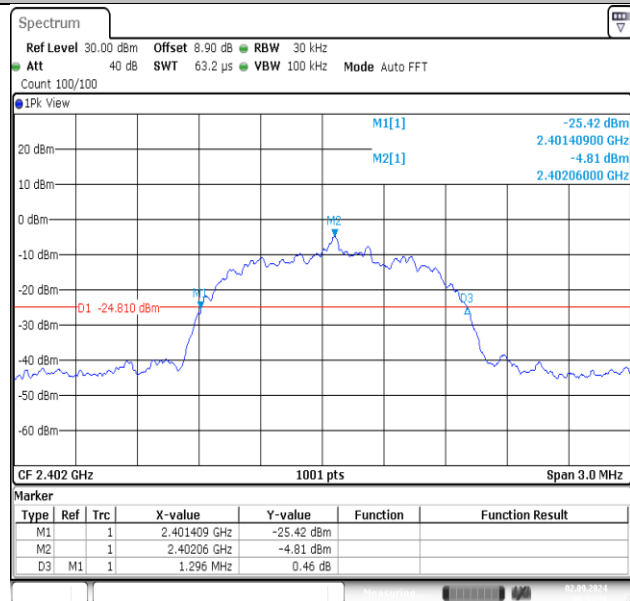
2DH5-Ant1-2402



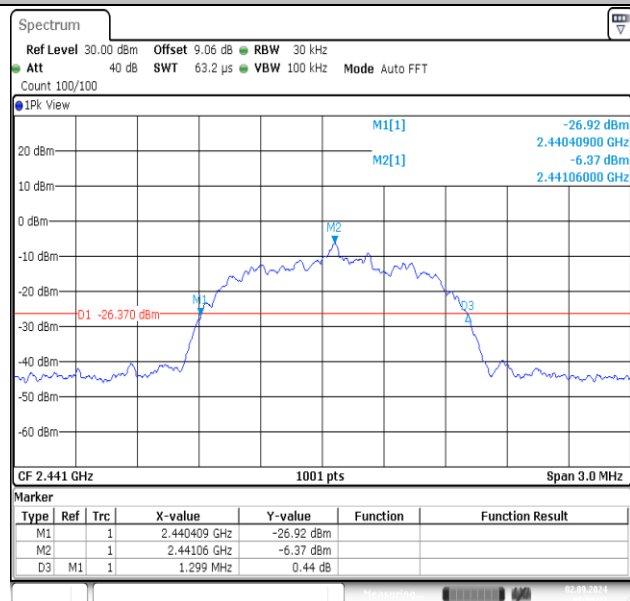
2DH5-Ant1-2441



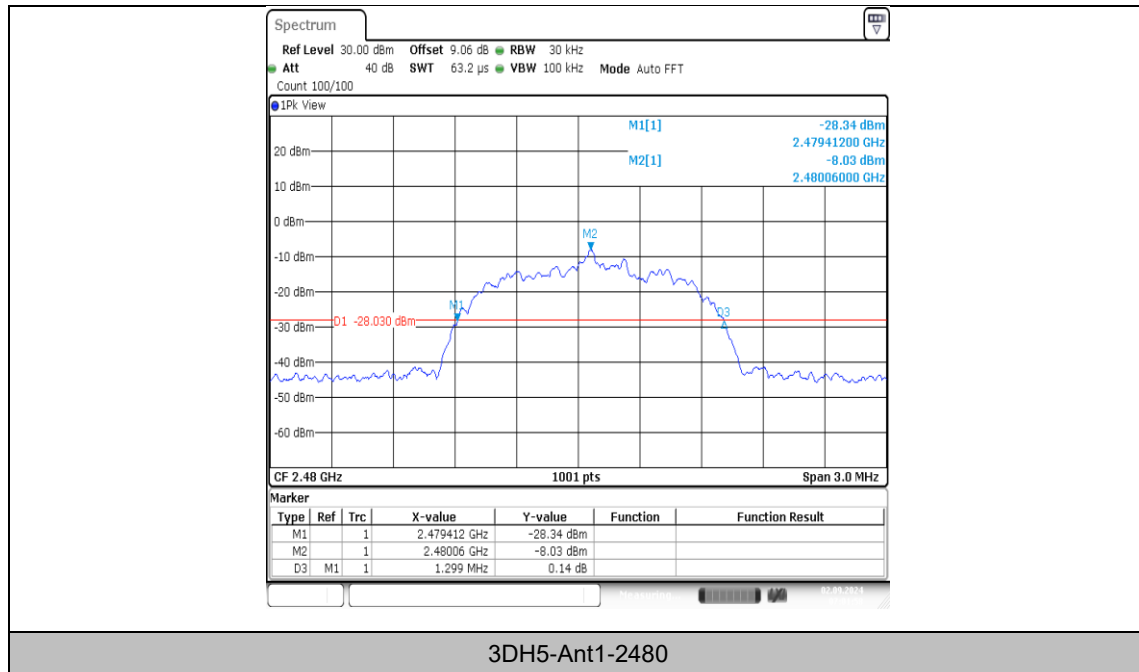
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

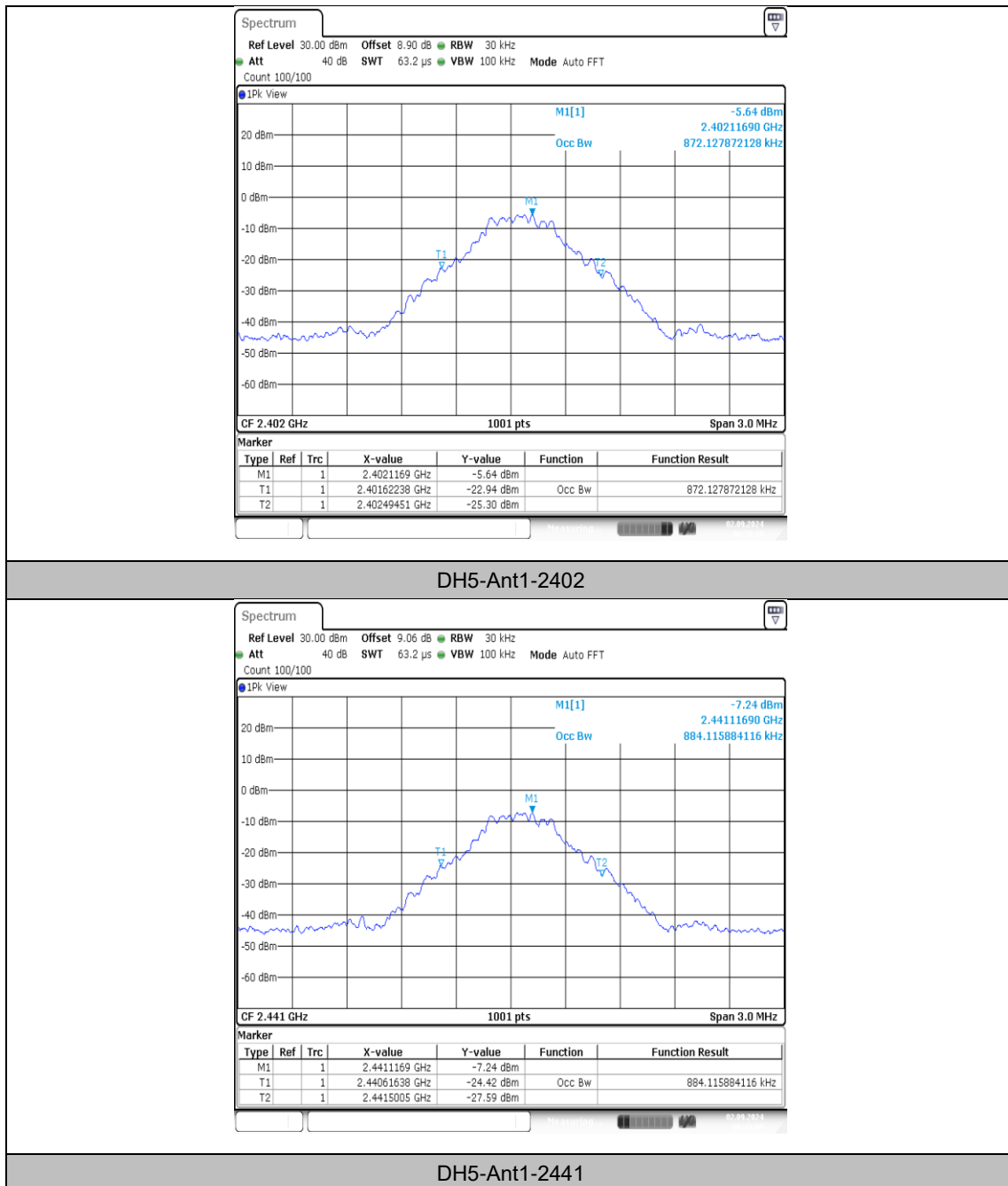


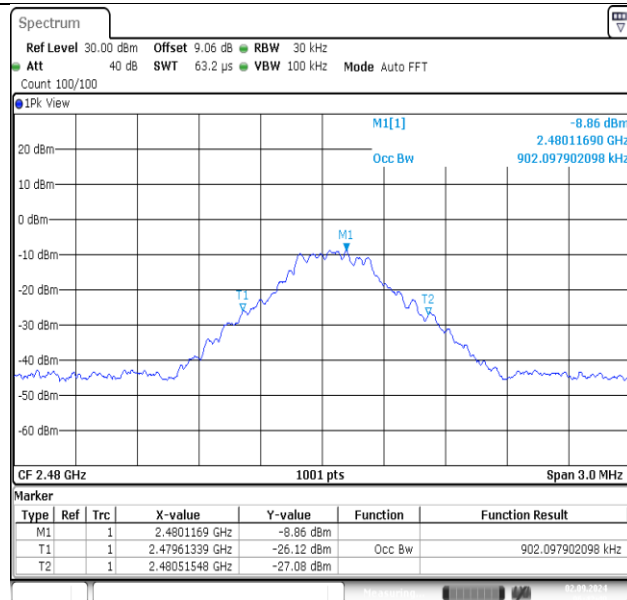
Appendix B: Occupied Channel Bandwidth

Test Result

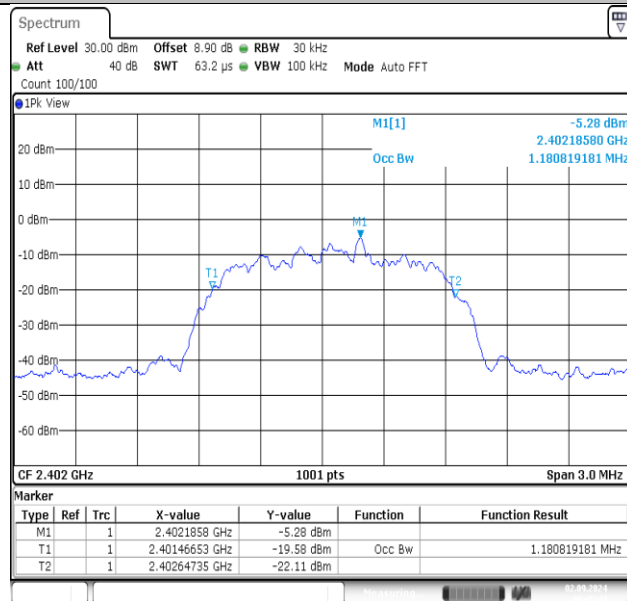
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.872	2401.6224	2402.4945	---	---
DH5	Ant1	2441	0.884	2440.6164	2441.5005	---	---
DH5	Ant1	2480	0.902	2479.6134	2480.5155	---	---
2DH5	Ant1	2402	1.181	2401.4665	2402.6474	---	---
2DH5	Ant1	2441	1.184	2440.4665	2441.6503	---	---
2DH5	Ant1	2480	1.193	2479.4635	2480.6563	---	---
3DH5	Ant1	2402	1.187	2401.4635	2402.6503	---	---
3DH5	Ant1	2441	1.19	2440.4635	2441.6533	---	---
3DH5	Ant1	2480	1.199	2479.4575	2480.6563	---	---

Test Graphs

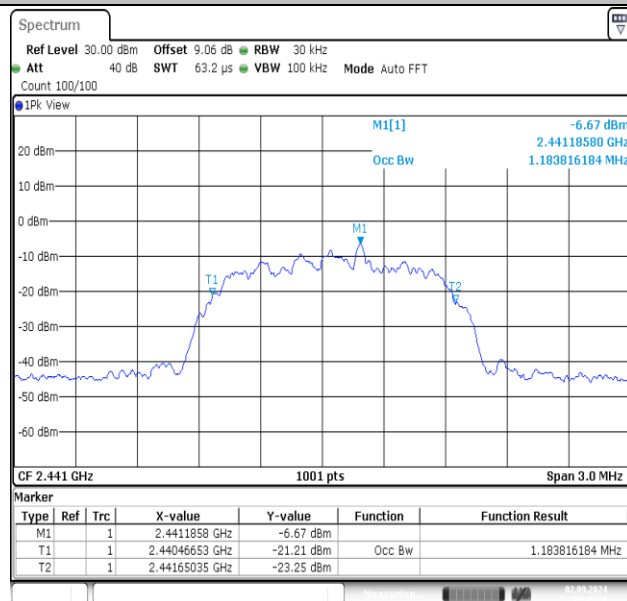




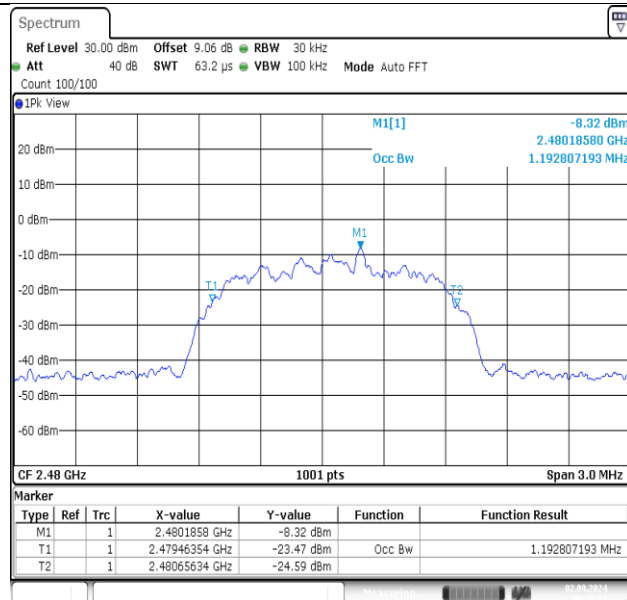
DH5-Ant1-2480



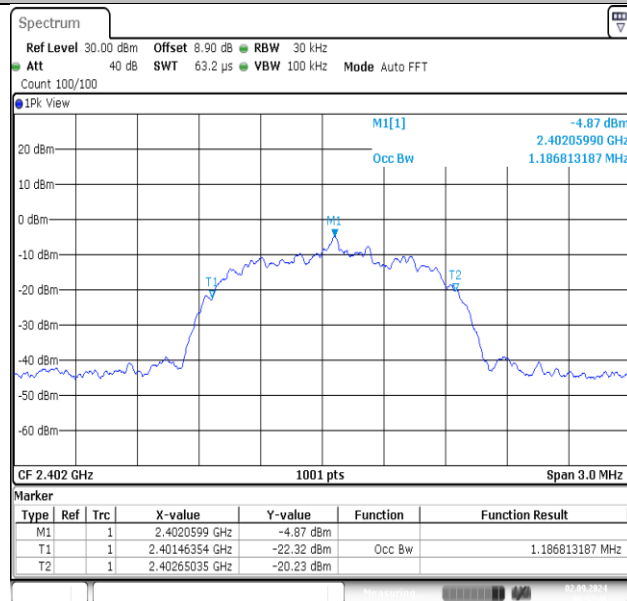
2DH5-Ant1-2402



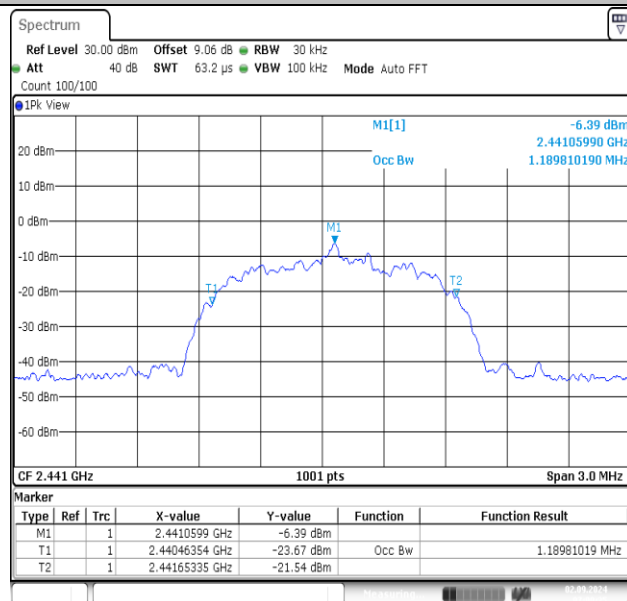
2DH5-Ant1-2441



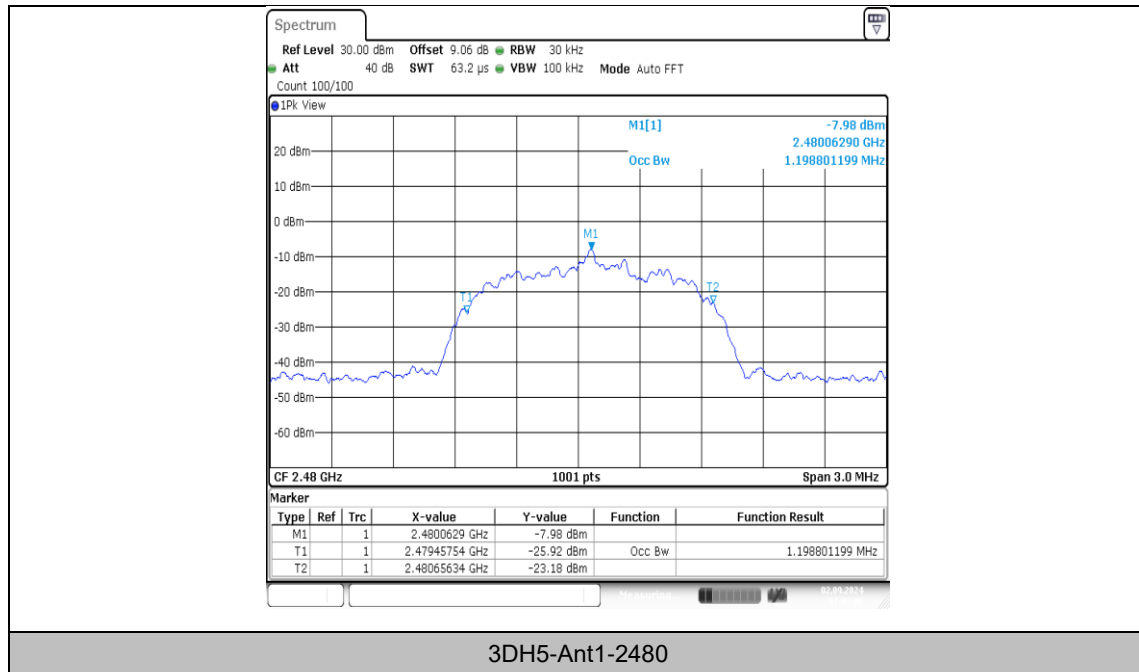
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

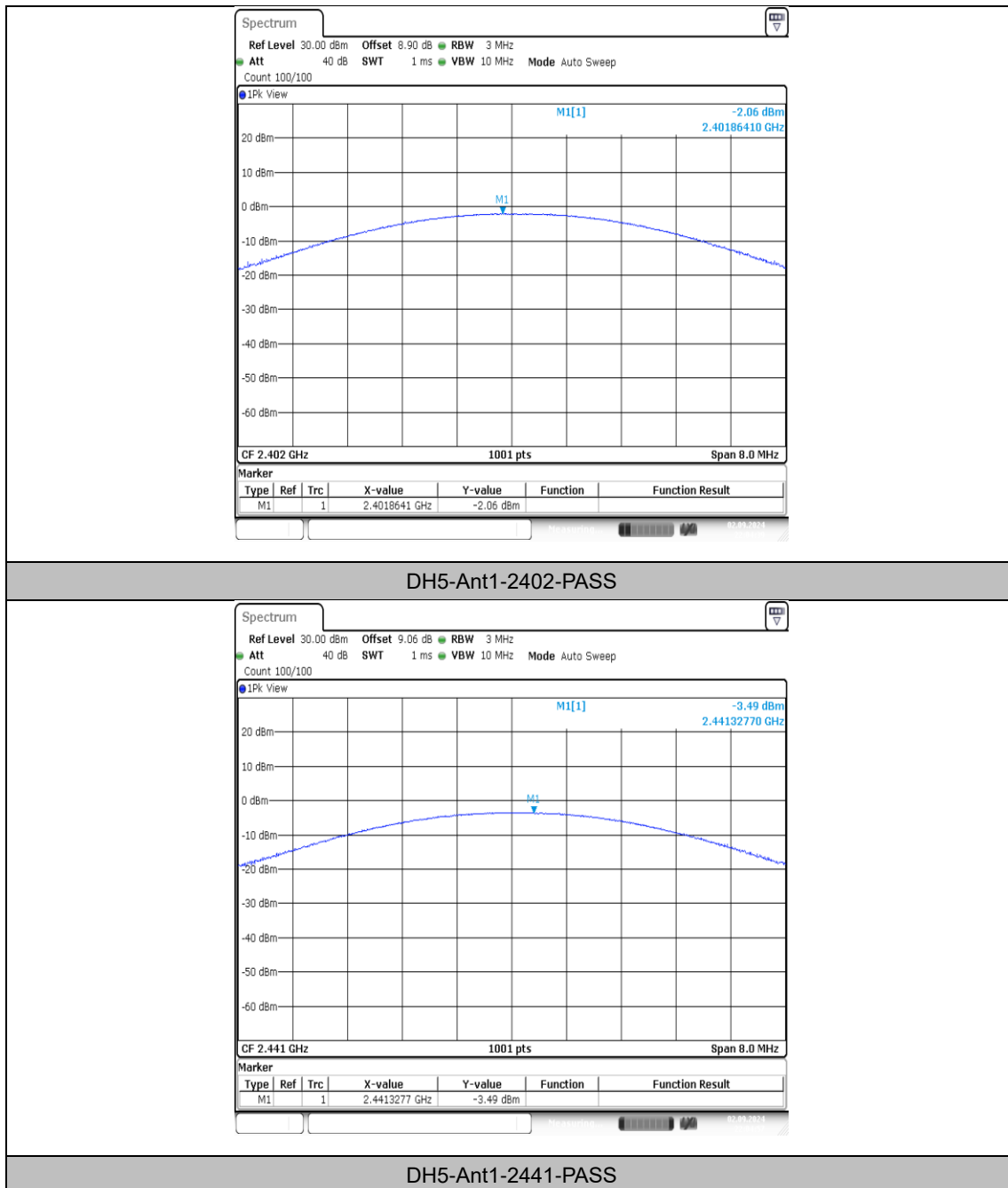


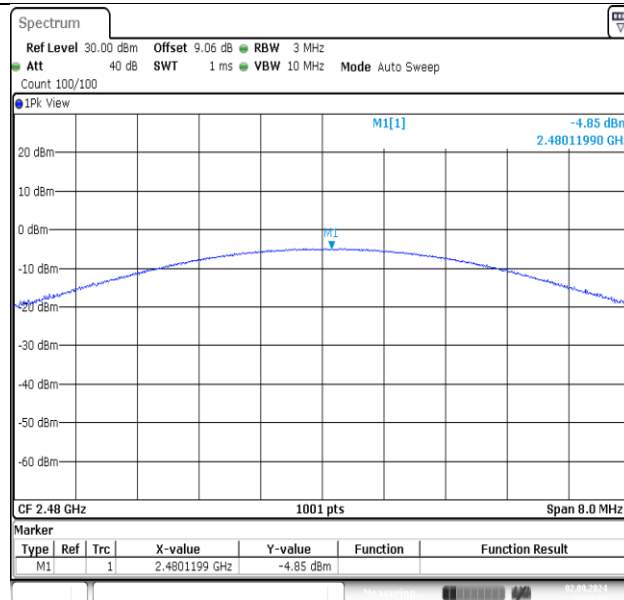
Appendix C: Maximum peak conducted output power

Test Result

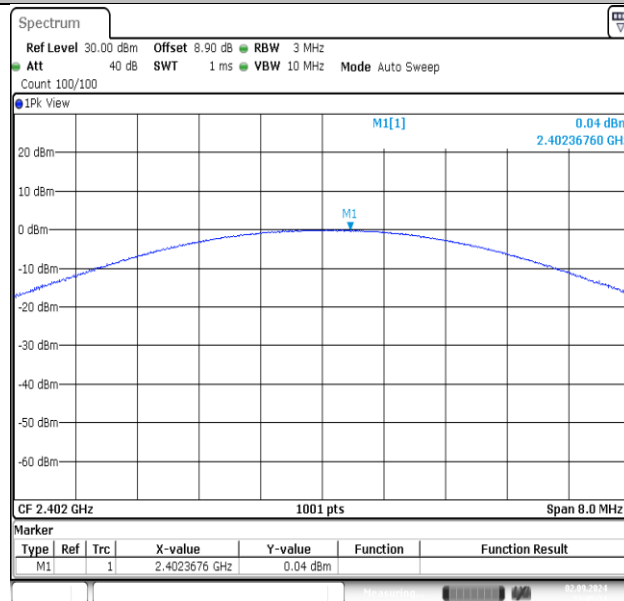
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.06	≤30	PASS
DH5	Ant1	2441	-3.49	≤30	PASS
DH5	Ant1	2480	-4.85	≤30	PASS
2DH5	Ant1	2402	0.04	≤20.97	PASS
2DH5	Ant1	2441	-1.50	≤20.97	PASS
2DH5	Ant1	2480	-3.03	≤20.97	PASS
3DH5	Ant1	2402	0.46	≤20.97	PASS
3DH5	Ant1	2441	-0.99	≤20.97	PASS
3DH5	Ant1	2480	-2.62	≤20.97	PASS

Test Graphs

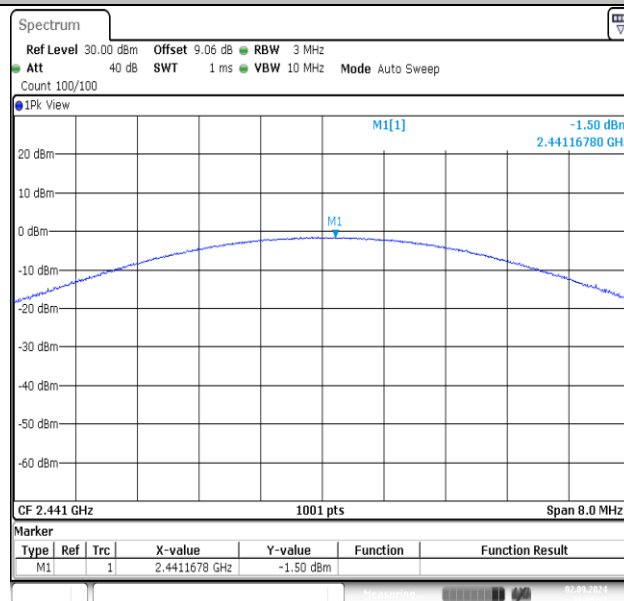




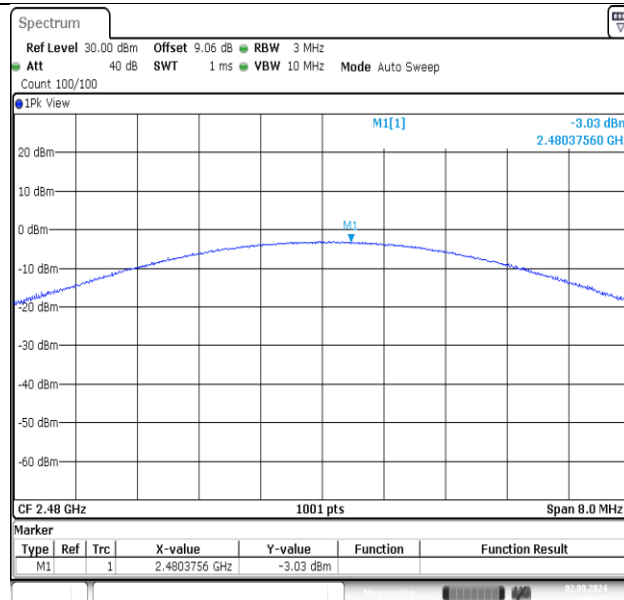
DH5-Ant1-2480-PASS



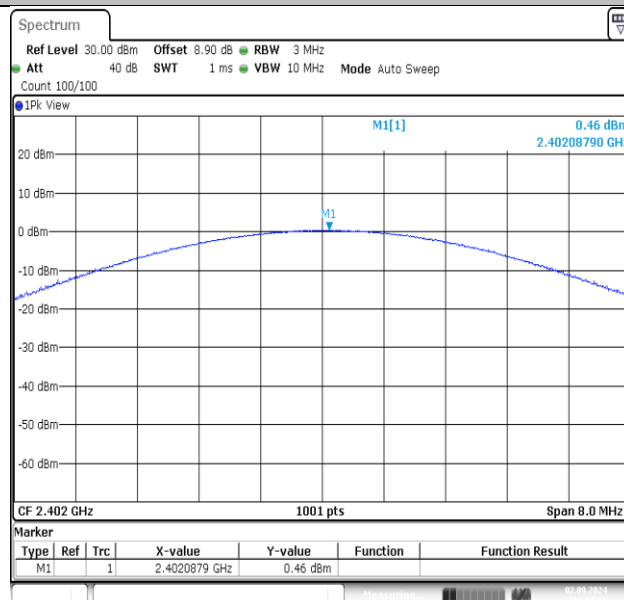
2DH5-Ant1-2402-PASS



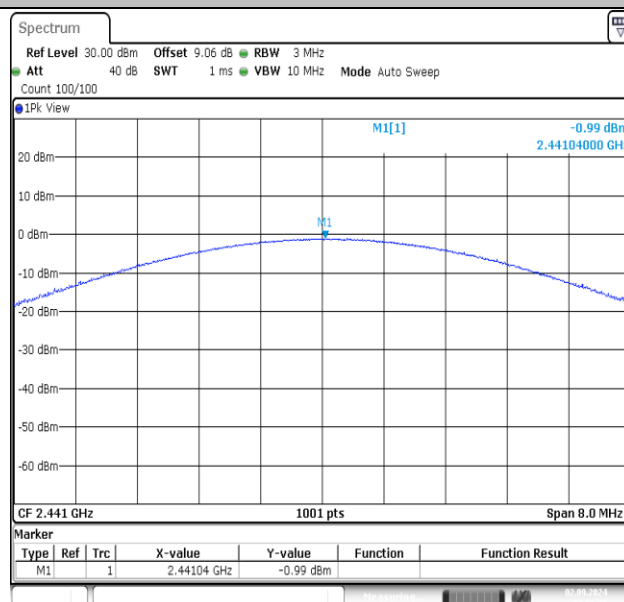
2DH5-Ant1-2441-PASS



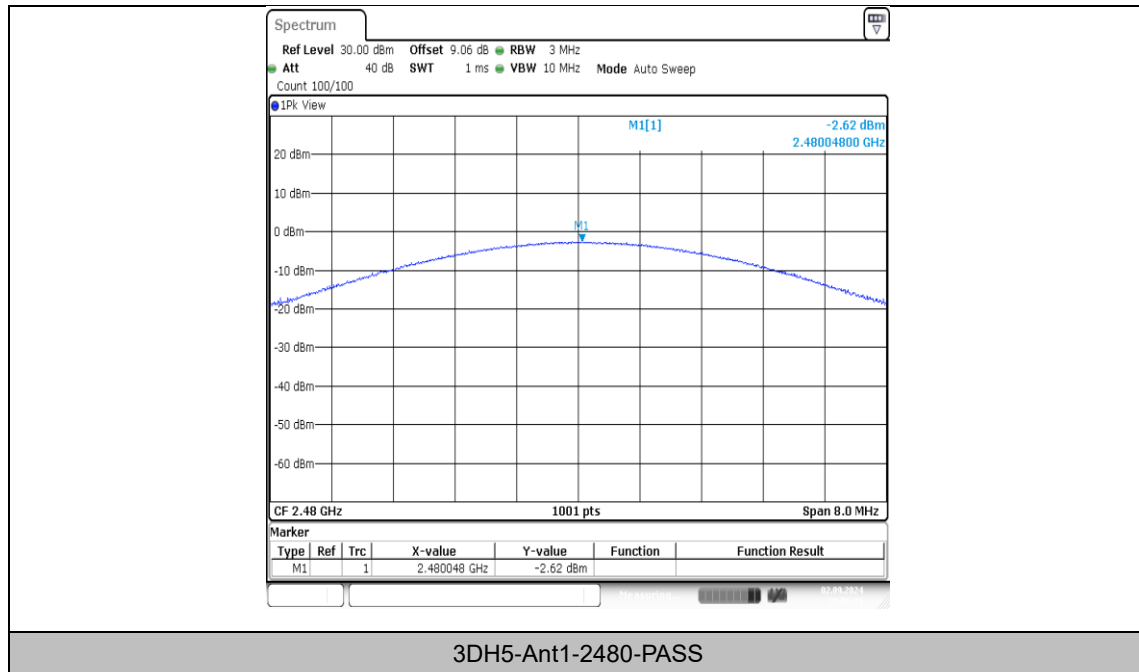
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS

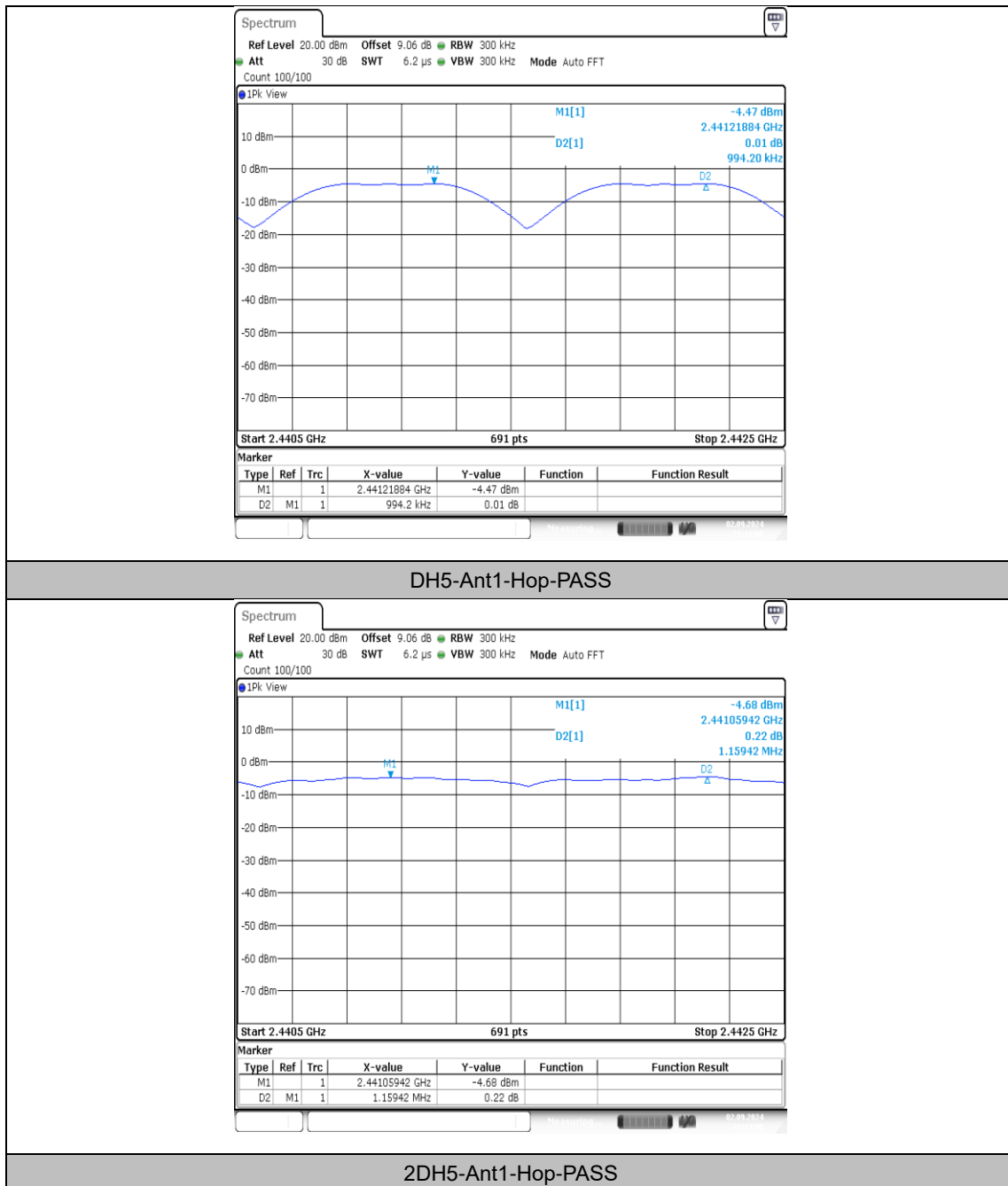


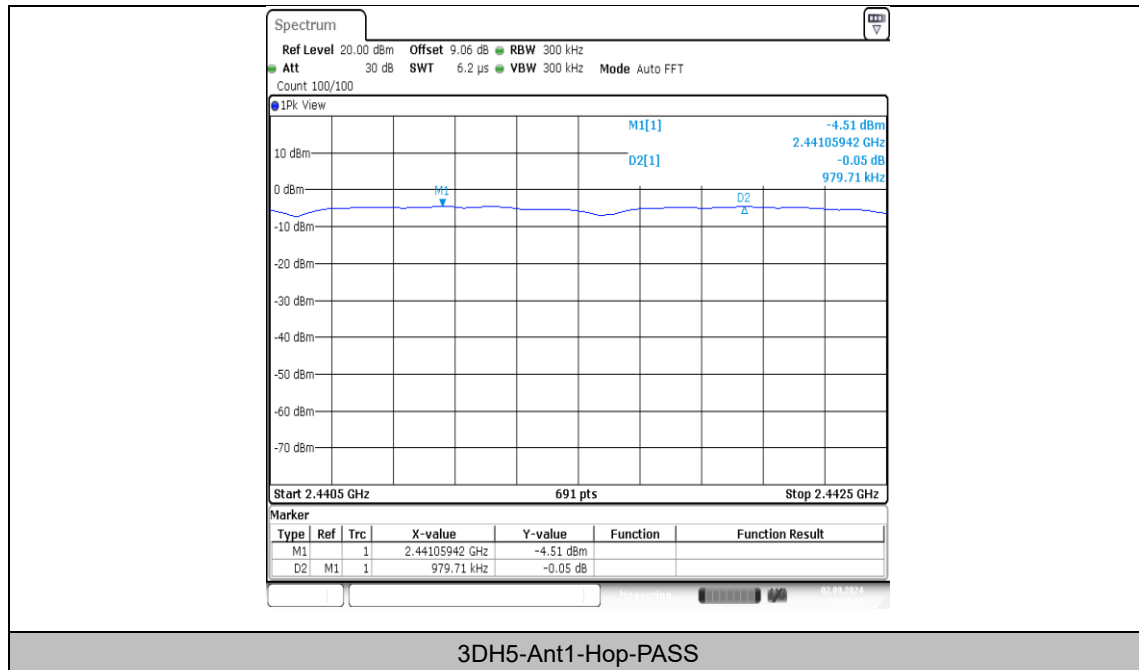
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.960	PASS
2DH5	Ant1	Hop	1.159	≥ 0.887	PASS
3DH5	Ant1	Hop	0.98	≥ 0.867	PASS

Test Graphs



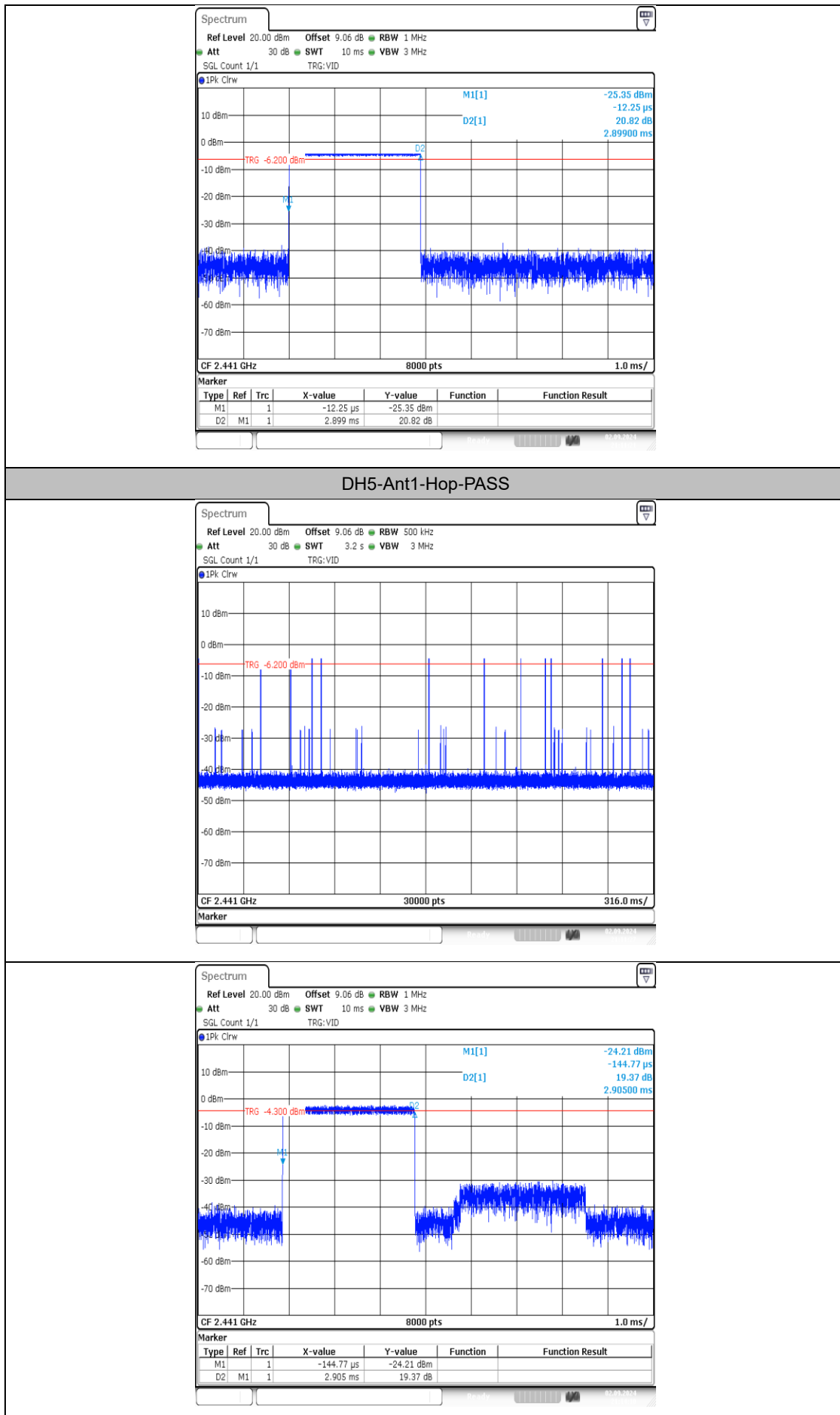


Appendix E: Time of occupancy

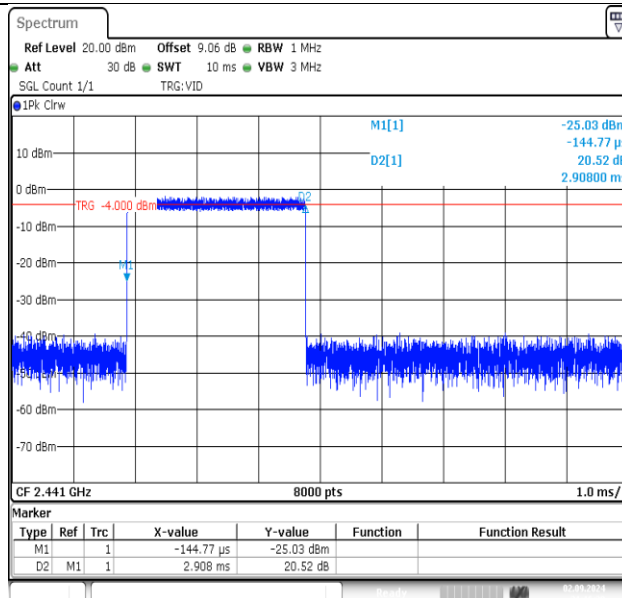
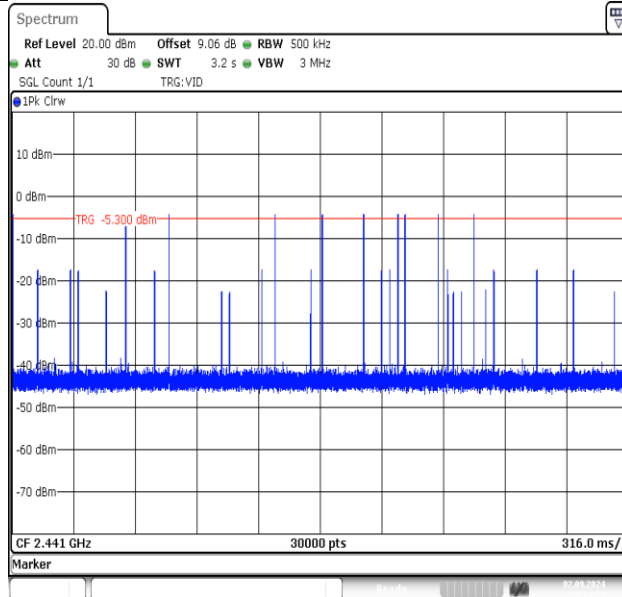
Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.899	130	0.377	≤0.4	PASS
2DH5	Ant1	Hop	2.905	100	0.291	≤0.4	PASS
3DH5	Ant1	Hop	2.908	120	0.349	≤0.4	PASS

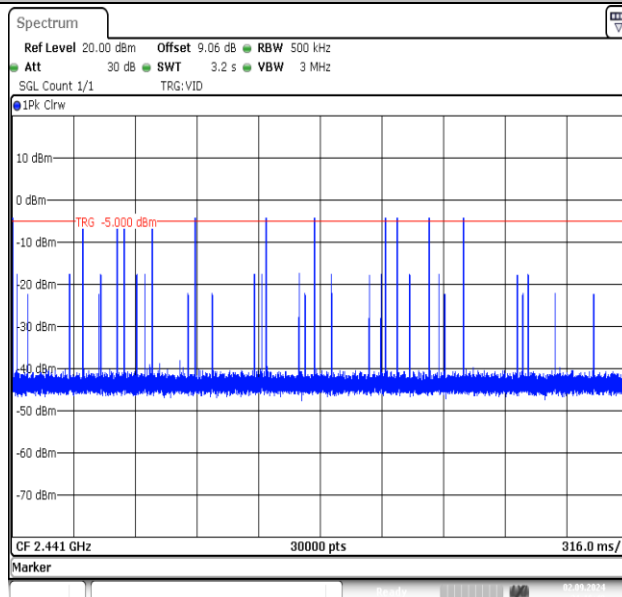
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

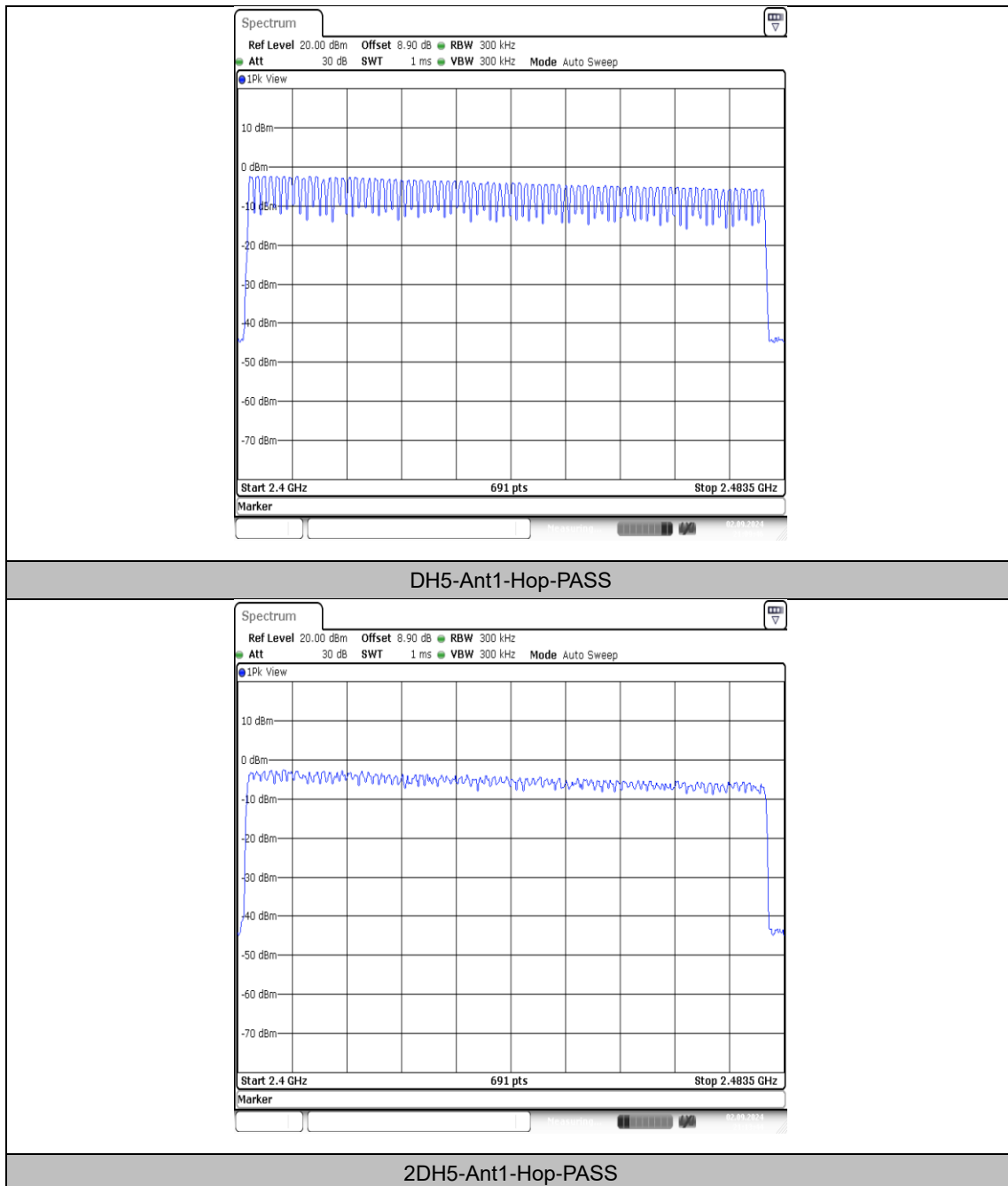


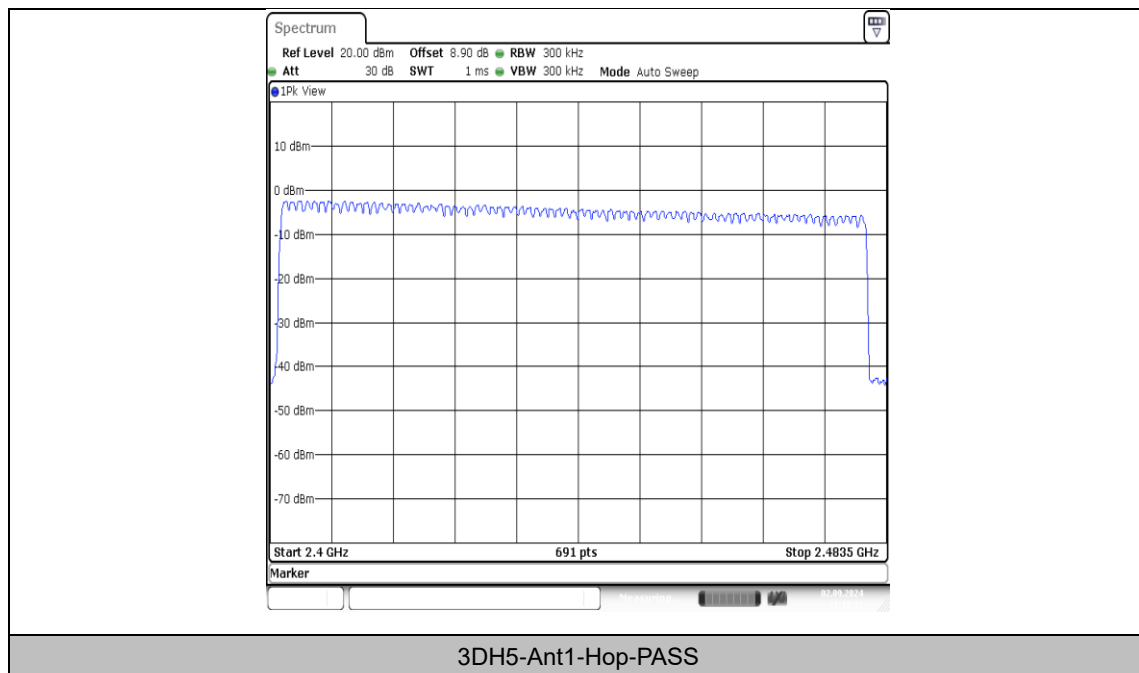
Appendix F: Number of hopping channels

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



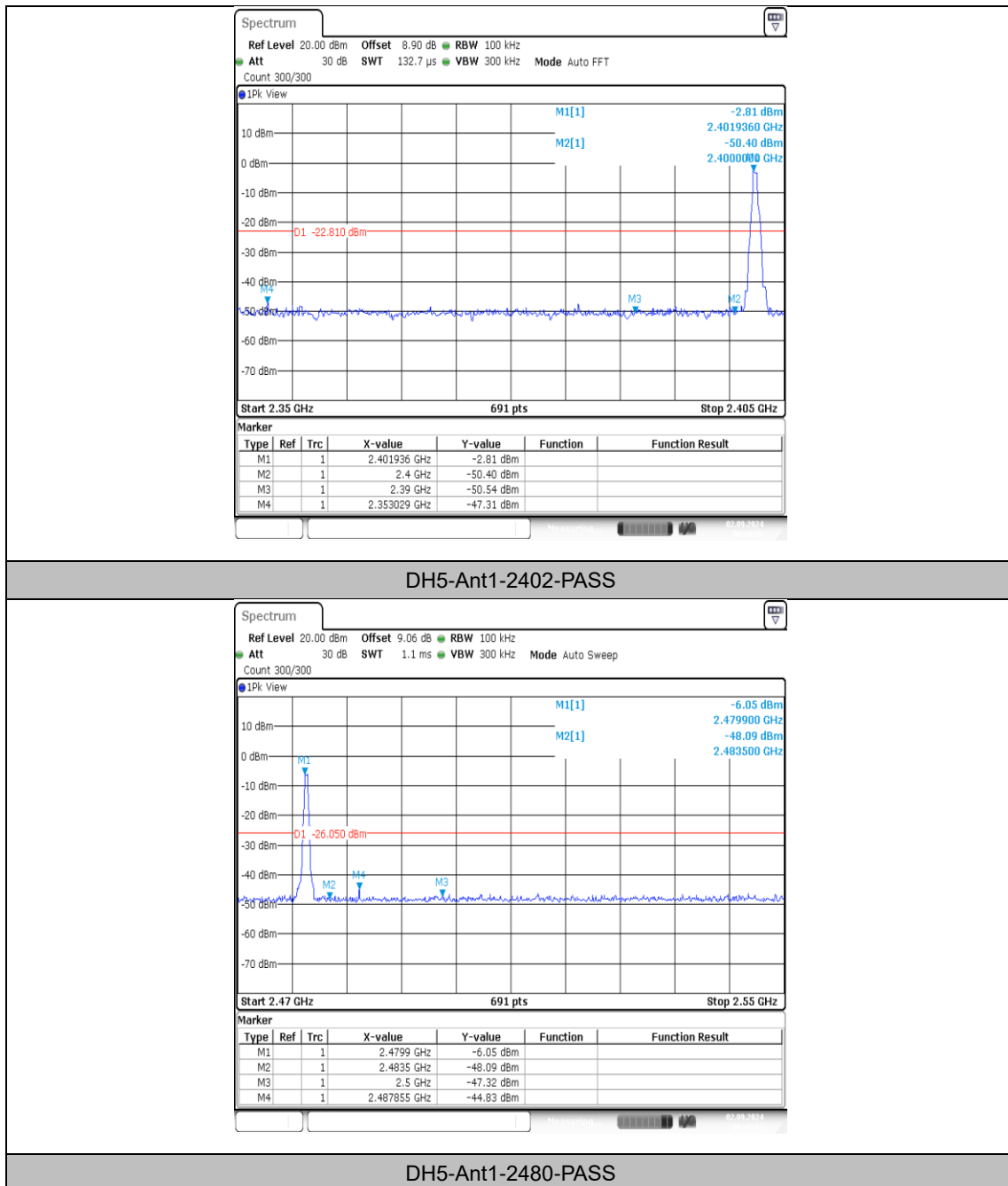


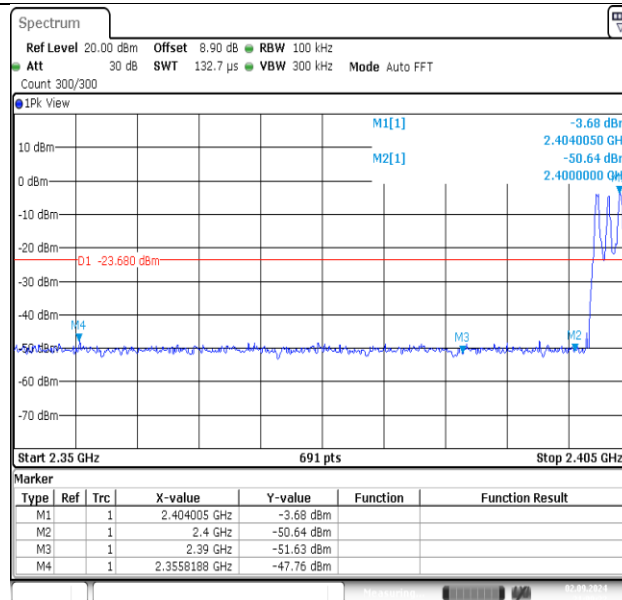
Appendix G: Band edge measurements

Test Result

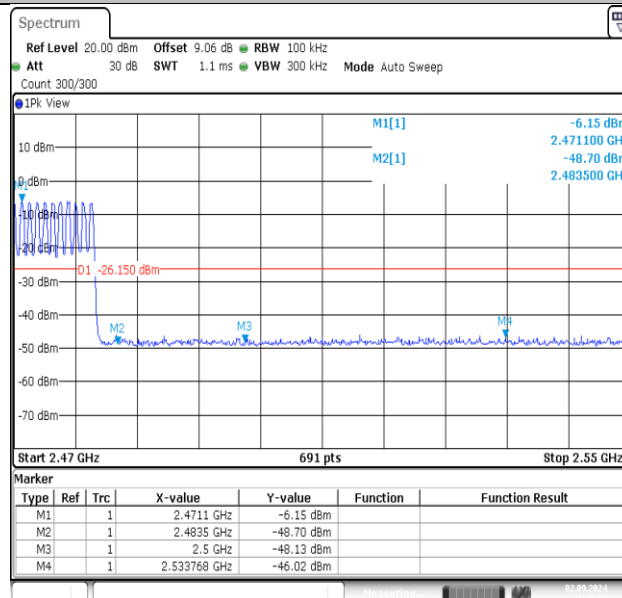
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.81	-47.31	≤-22.81	PASS
DH5	Ant1	High	2480	-6.05	-44.83	≤-26.05	PASS
DH5	Ant1	Low	Hop_2402	-3.68	-47.76	≤-23.68	PASS
DH5	Ant1	High	Hop_2480	-6.15	-46.02	≤-26.15	PASS
2DH5	Ant1	Low	2402	-3.00	-47.78	≤-23	PASS
2DH5	Ant1	High	2480	-6.23	-45.76	≤-26.23	PASS
2DH5	Ant1	Low	Hop_2402	-7.57	-47.62	≤-27.57	PASS
2DH5	Ant1	High	Hop_2480	-6.04	-46.1	≤-26.04	PASS
3DH5	Ant1	Low	2402	-2.87	-48.05	≤-22.87	PASS
3DH5	Ant1	High	2480	-6.14	-46.2	≤-26.14	PASS
3DH5	Ant1	Low	Hop_2402	-5.10	-47.92	≤-25.1	PASS
3DH5	Ant1	High	Hop_2480	-6.07	-40.65	≤-26.07	PASS

Test Graphs

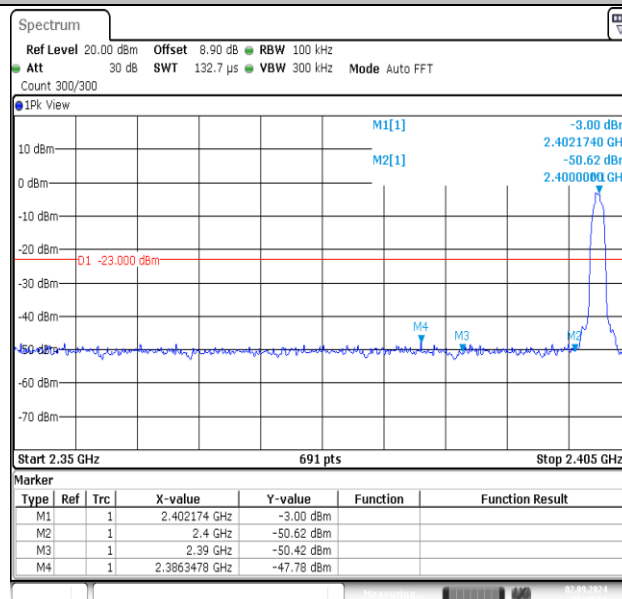




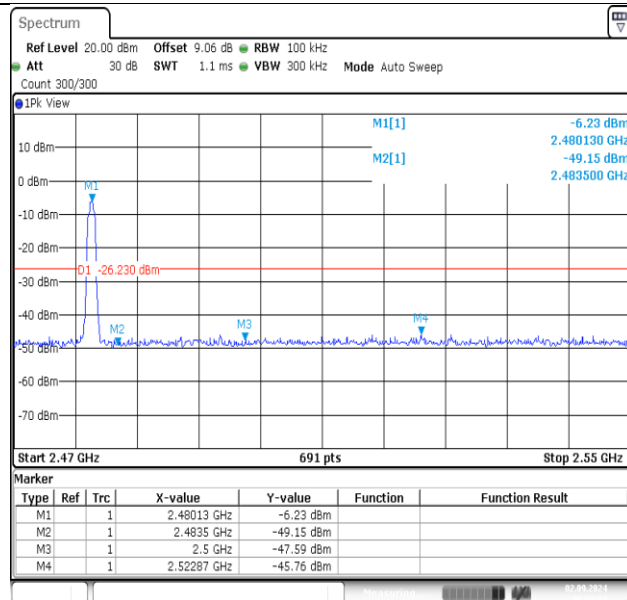
DH5-Ant1-Hop_2402-PASS



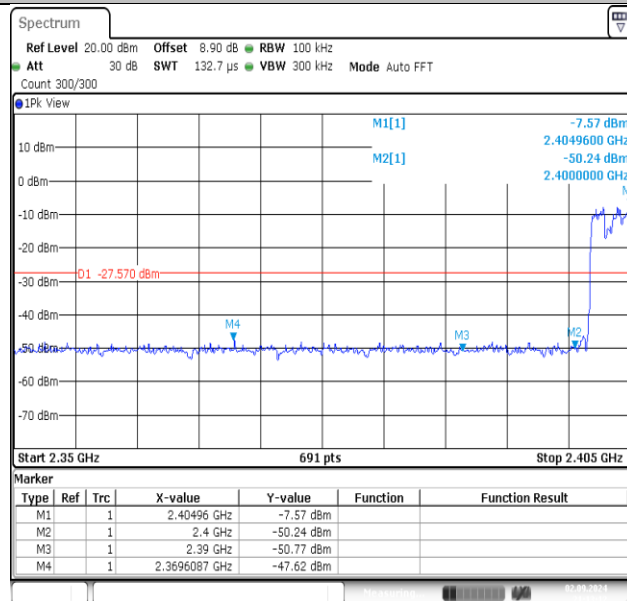
DH5-Ant1-Hop_2480-PASS



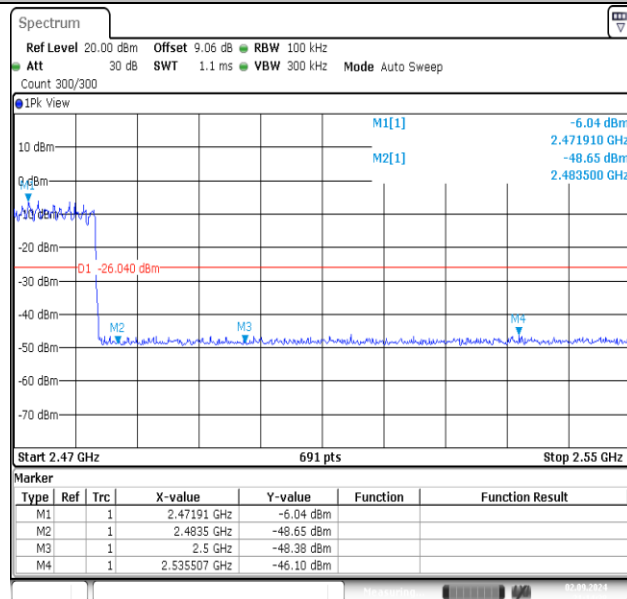
2DH5-Ant1-2402-PASS



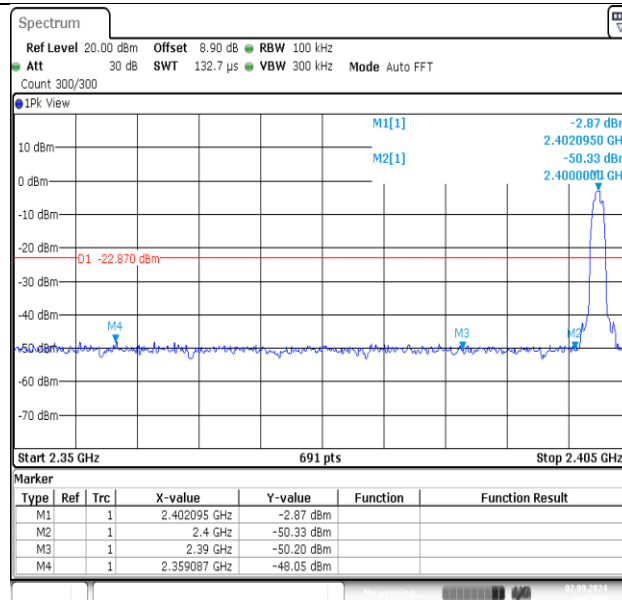
2DH5-Ant1-2480-PASS



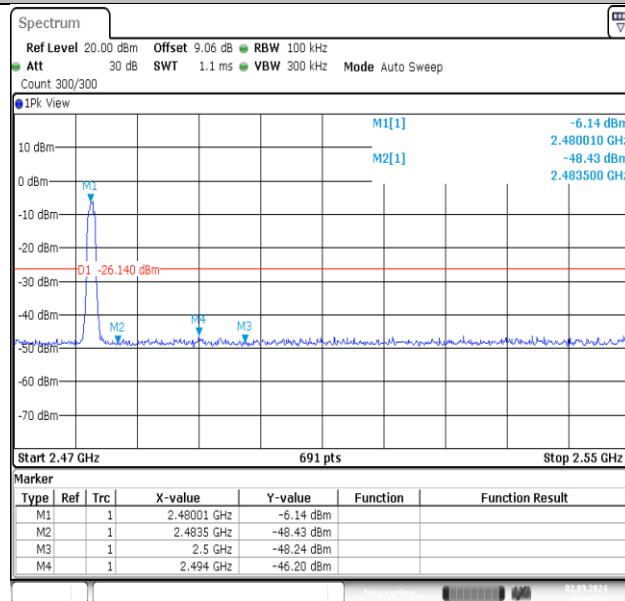
2DH5-Ant1-Hop_2402-PASS



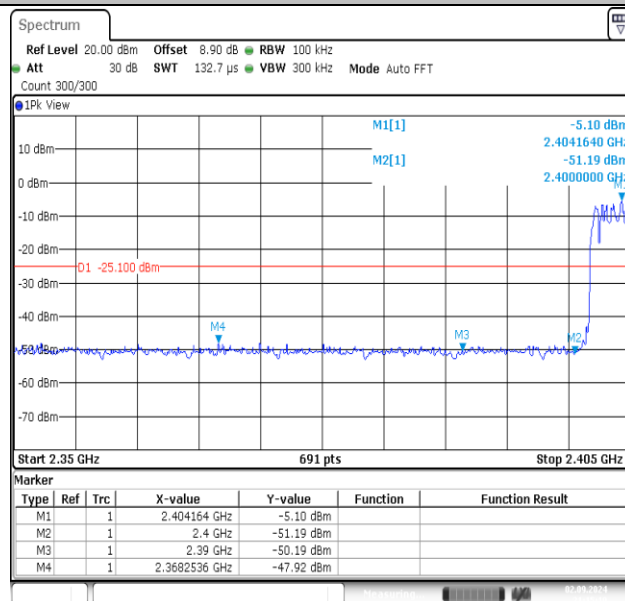
2DH5-Ant1-Hop_2480-PASS



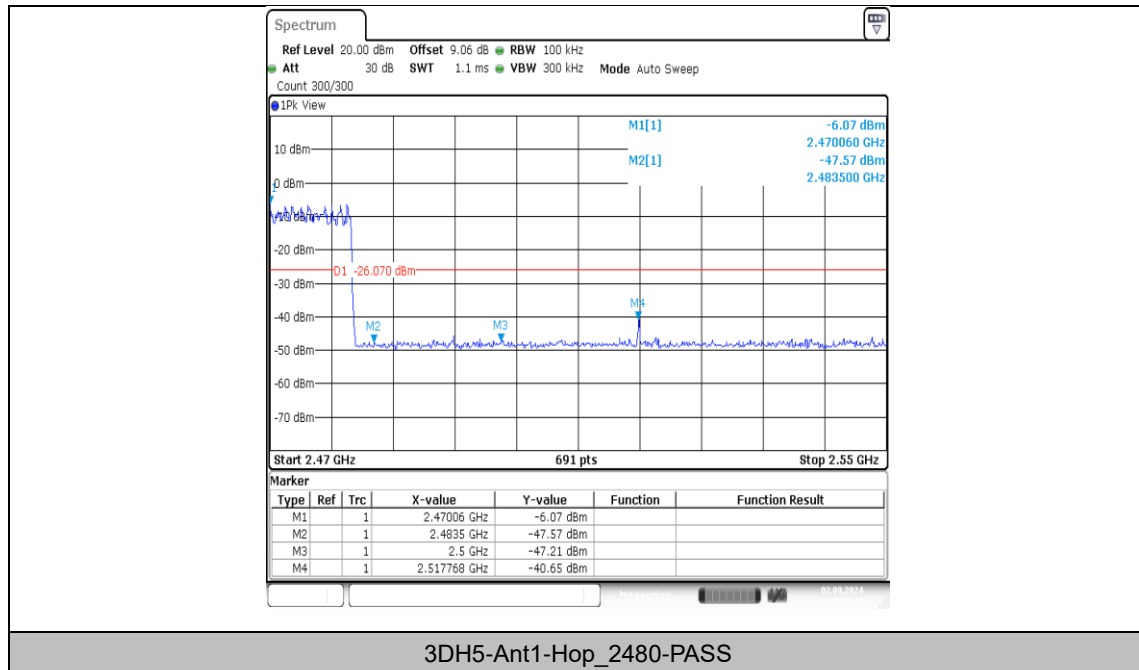
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS

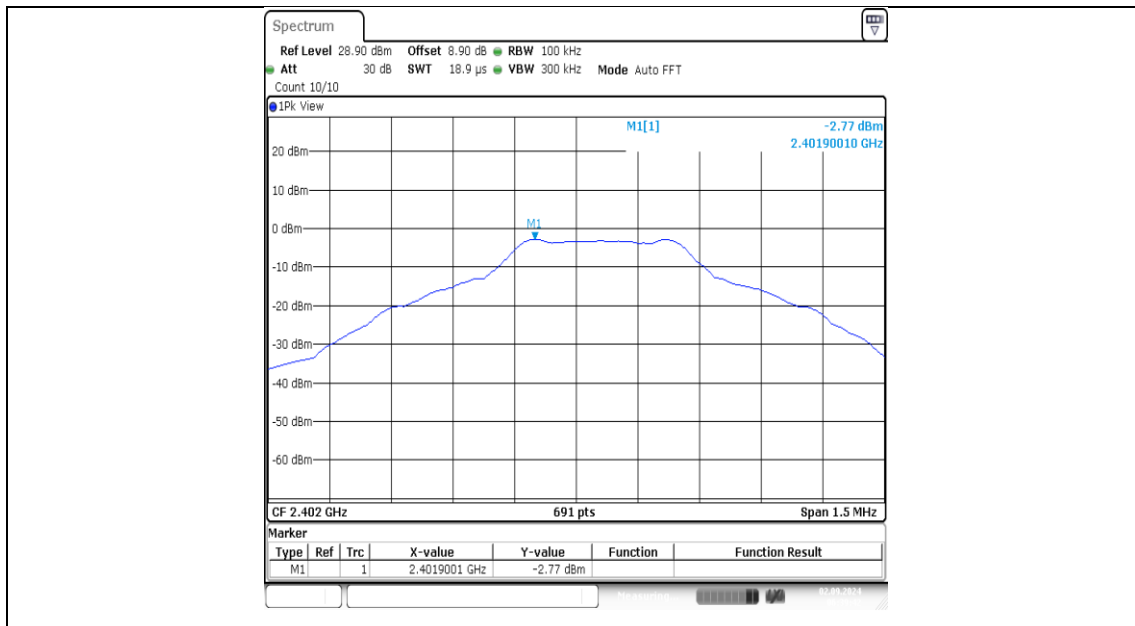


Appendix H: Conducted Spurious Emission

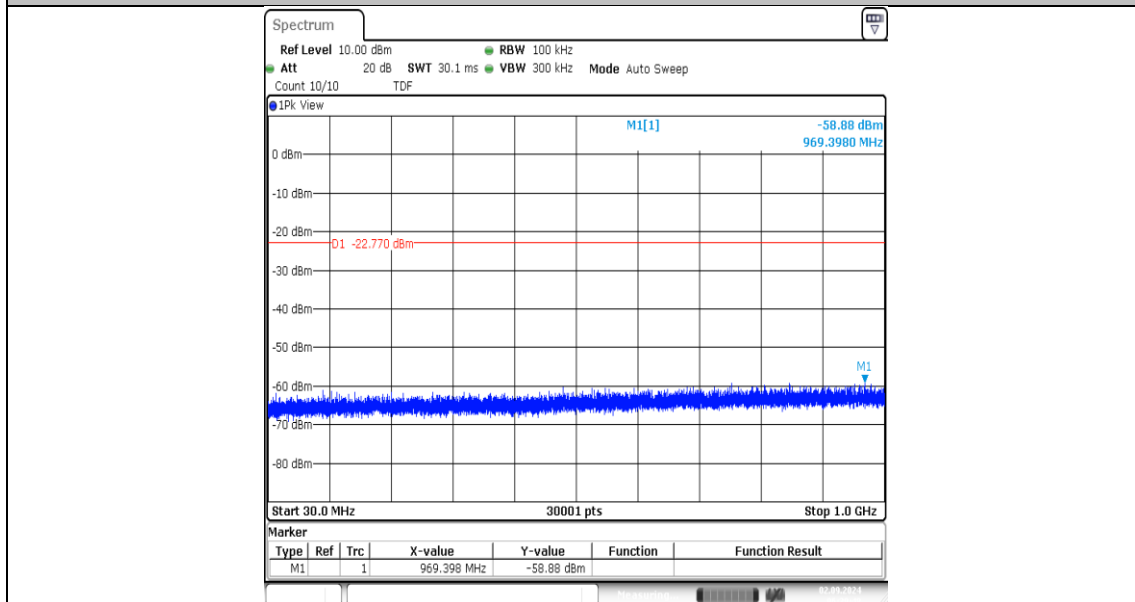
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.77	-2.77	---	PASS
DH5	Ant1	2402	30~1000	-2.77	-58.88	≤-22.77	PASS
DH5	Ant1	2402	1000~26500	-2.77	-49.54	≤-22.77	PASS
DH5	Ant1	2441	0~Reference	-4.33	-4.33	---	PASS
DH5	Ant1	2441	30~1000	-4.33	-58.7	≤-24.33	PASS
DH5	Ant1	2441	1000~26500	-4.33	-51.21	≤-24.33	PASS
DH5	Ant1	2480	0~Reference	-6.03	-6.03	---	PASS
DH5	Ant1	2480	30~1000	-6.03	-58.96	≤-26.03	PASS
DH5	Ant1	2480	1000~26500	-6.03	-49.61	≤-26.03	PASS
2DH5	Ant1	2402	0~Reference	-2.92	-2.92	---	PASS
2DH5	Ant1	2402	30~1000	-2.92	-58.99	≤-22.92	PASS
2DH5	Ant1	2402	1000~26500	-2.92	-50.18	≤-22.92	PASS
2DH5	Ant1	2441	0~Reference	-4.44	-4.44	---	PASS
2DH5	Ant1	2441	30~1000	-4.44	-59.19	≤-24.44	PASS
2DH5	Ant1	2441	1000~26500	-4.44	-49.76	≤-24.44	PASS
2DH5	Ant1	2480	0~Reference	-6.14	-6.14	---	PASS
2DH5	Ant1	2480	30~1000	-6.14	-58.1	≤-26.14	PASS
2DH5	Ant1	2480	1000~26500	-6.14	-49.97	≤-26.14	PASS
3DH5	Ant1	2402	0~Reference	-2.86	-2.86	---	PASS
3DH5	Ant1	2402	30~1000	-2.86	-58.66	≤-22.86	PASS
3DH5	Ant1	2402	1000~26500	-2.86	-49.76	≤-22.86	PASS
3DH5	Ant1	2441	0~Reference	-4.40	-4.40	---	PASS
3DH5	Ant1	2441	30~1000	-4.40	-59.15	≤-24.4	PASS
3DH5	Ant1	2441	1000~26500	-4.40	-50.66	≤-24.4	PASS
3DH5	Ant1	2480	0~Reference	-6.08	-6.08	---	PASS
3DH5	Ant1	2480	30~1000	-6.08	-59.14	≤-26.08	PASS
3DH5	Ant1	2480	1000~26500	-6.08	-48.02	≤-26.08	PASS

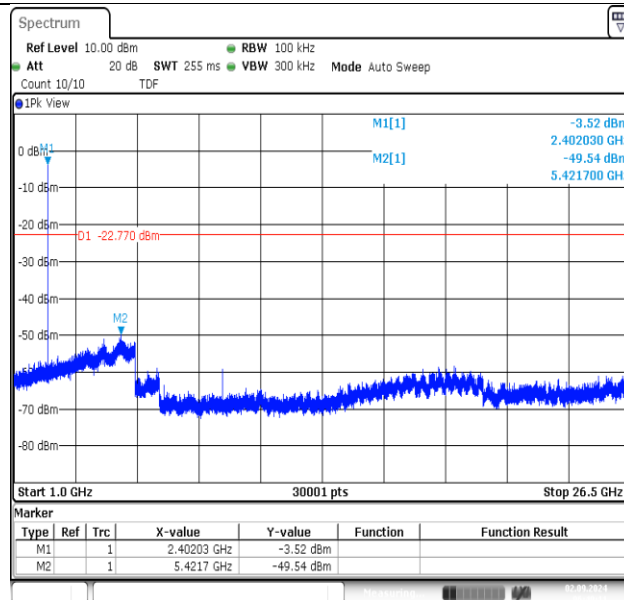
Test Graphs



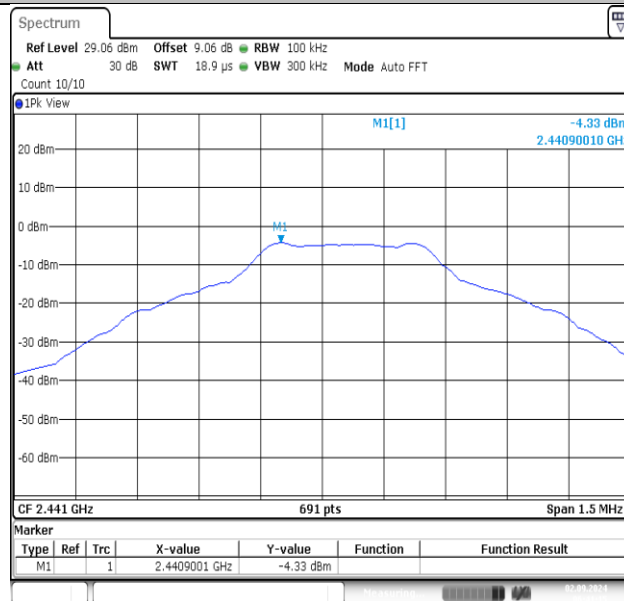
DH5-Ant1-2402-0~Reference-PASS



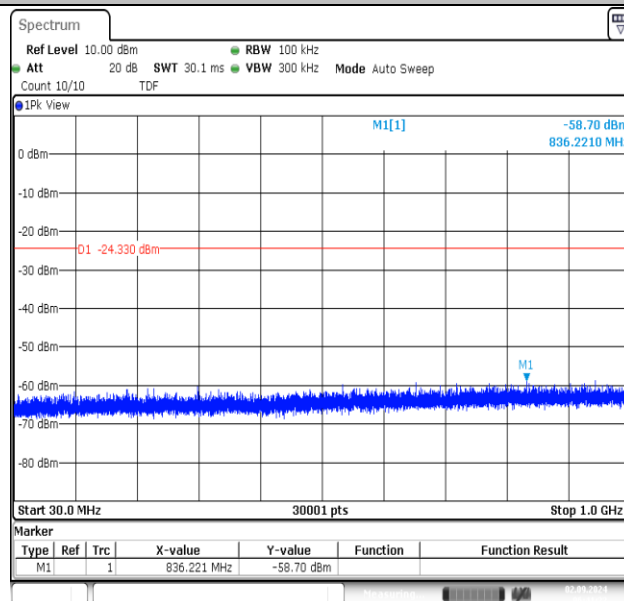
DH5-Ant1-2402-30~1000-PASS



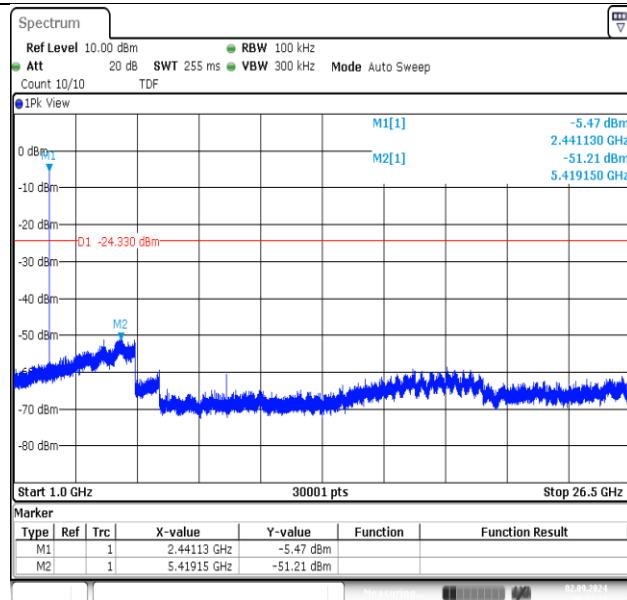
DH5-Ant1-2402-1000~26500-PASS



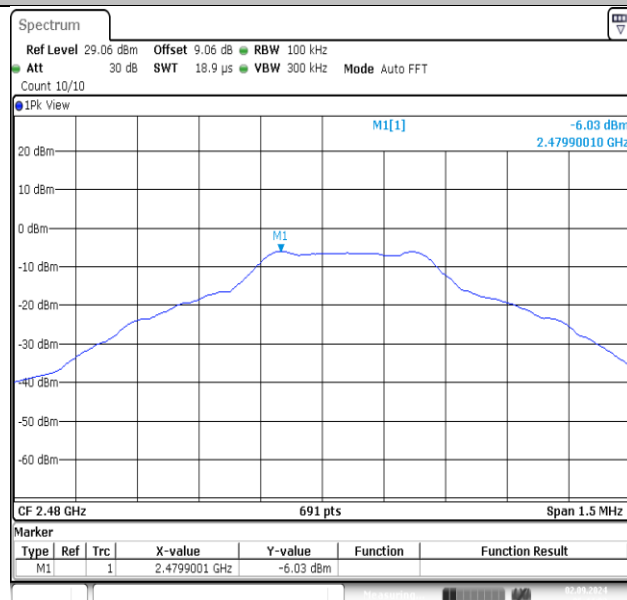
DH5-Ant1-2441-0~Reference-PASS



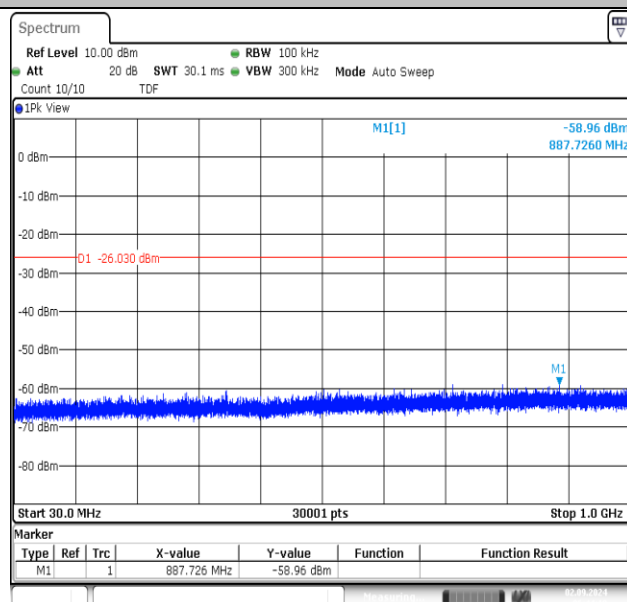
DH5-Ant1-2441-30~1000-PASS



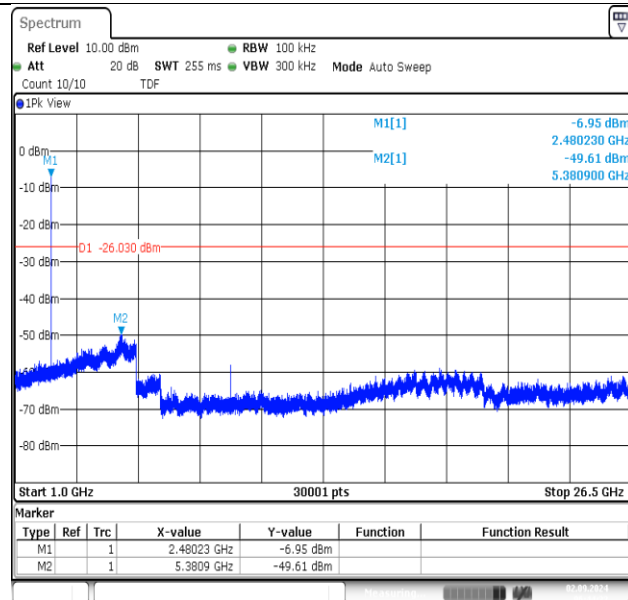
DH5-Ant1-2441-1000~26500-PASS



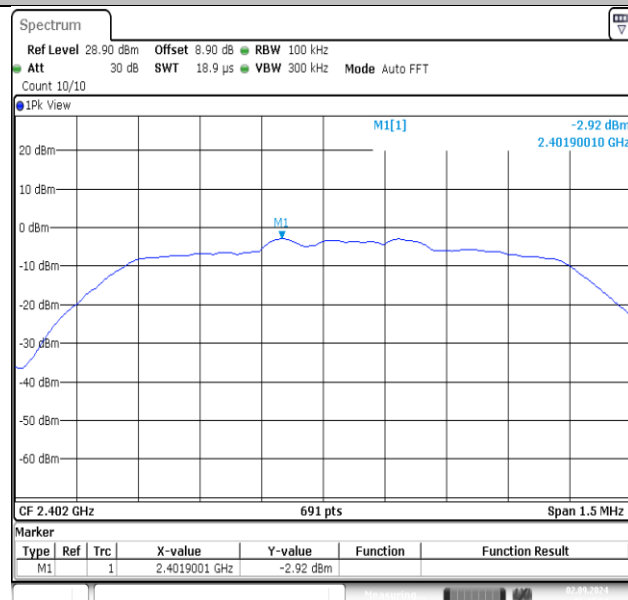
DH5-Ant1-2480-0~Reference-PASS



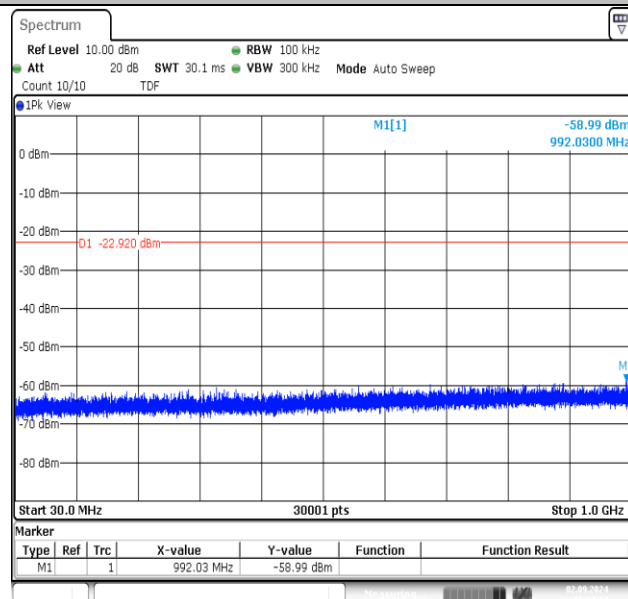
DH5-Ant1-2480-30~1000-PASS



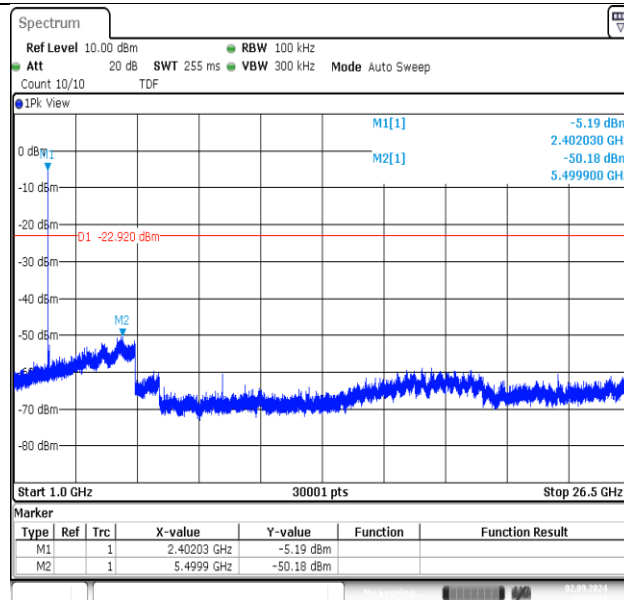
DH5-Ant1-2480-1000~26500-PASS



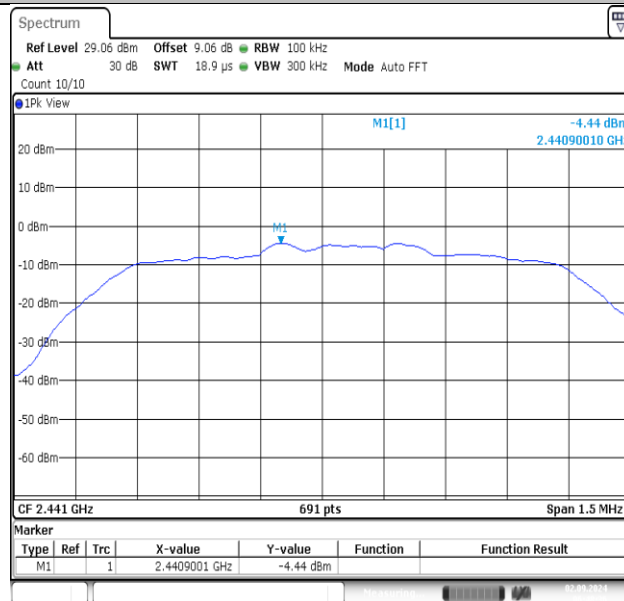
2DH5-Ant1-2402-0~Reference-PASS



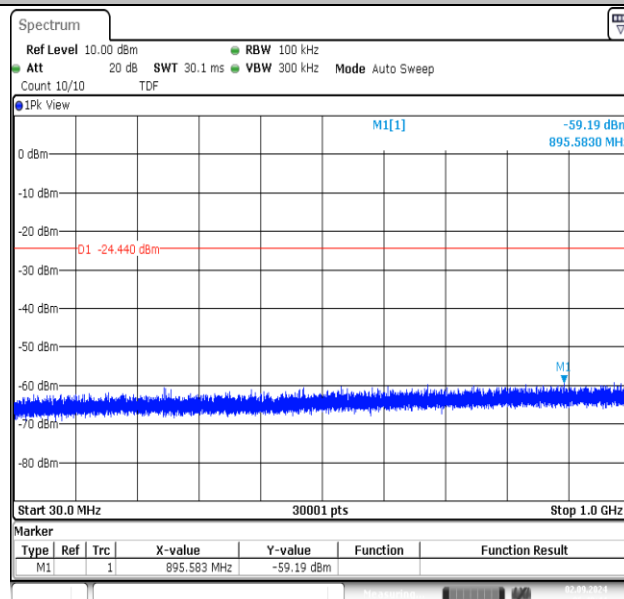
2DH5-Ant1-2402-30~1000-PASS



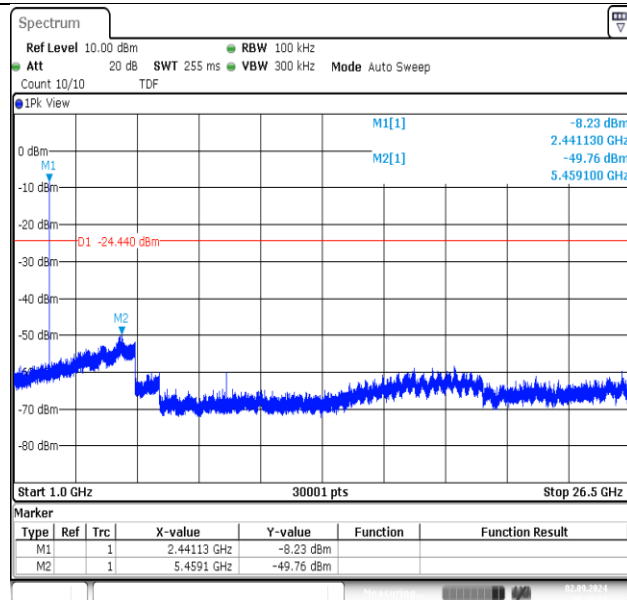
2DH5-Ant1-2402-1000~26500-PASS



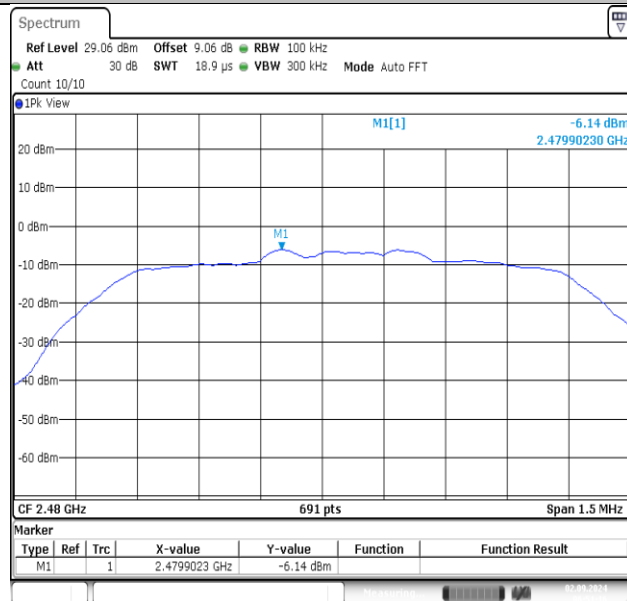
2DH5-Ant1-2441-0~Reference-PASS



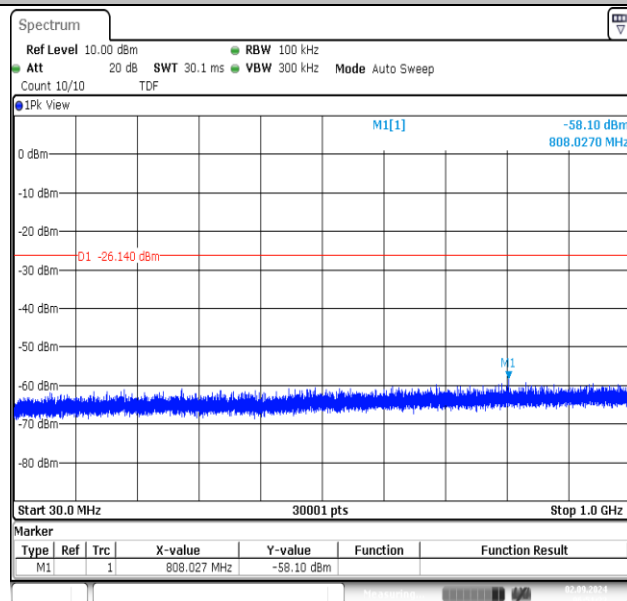
2DH5-Ant1-2441-30~1000-PASS



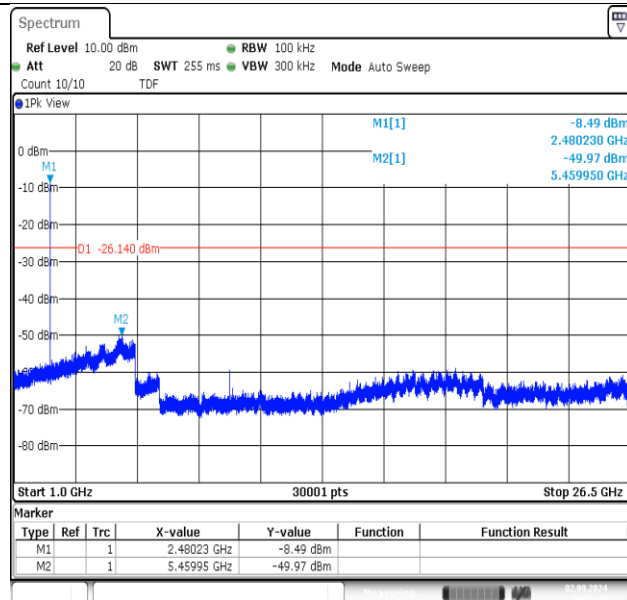
2DH5-Ant1-2441-1000~26500-PASS



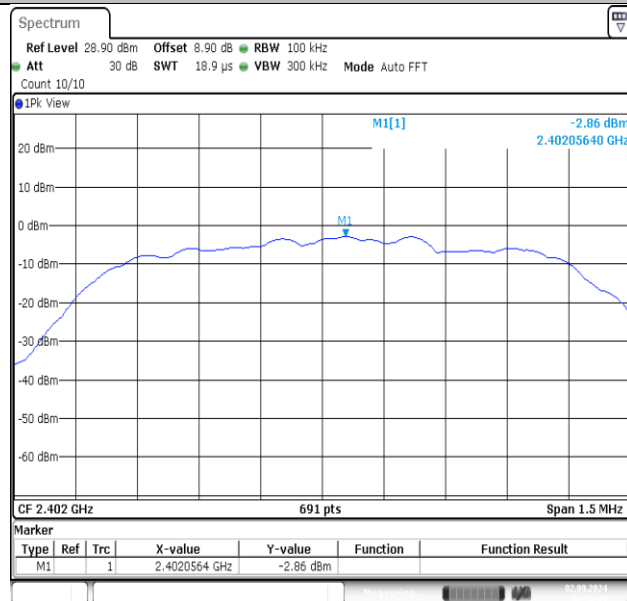
2DH5-Ant1-2480-0~Reference-PASS



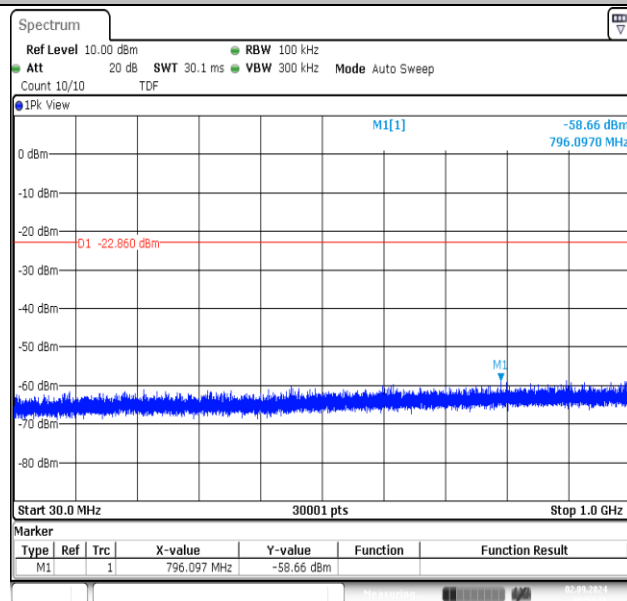
2DH5-Ant1-2480-30~1000-PASS



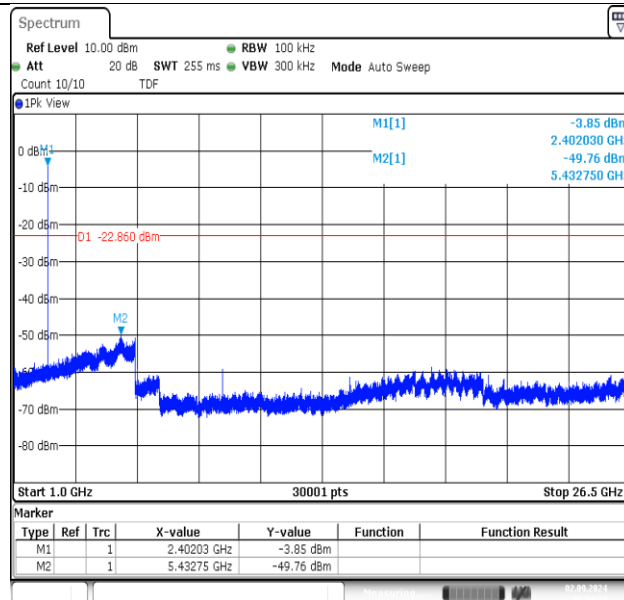
2DH5-Ant1-2480-1000~26500-PASS



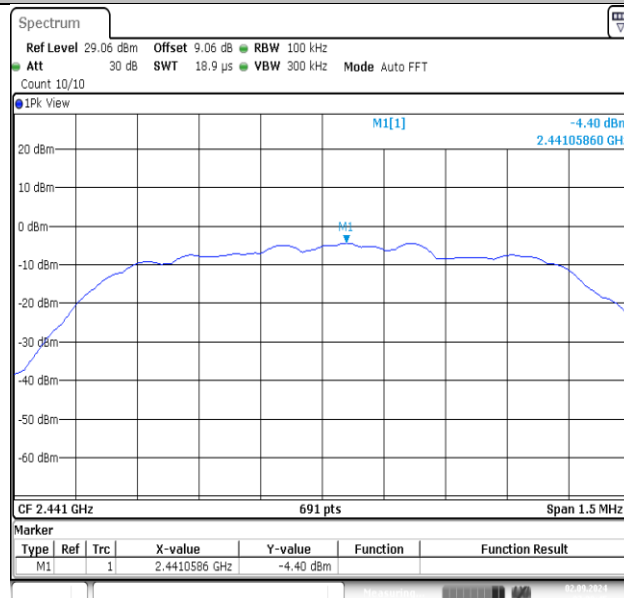
3DH5-Ant1-2402-0~Reference-PASS



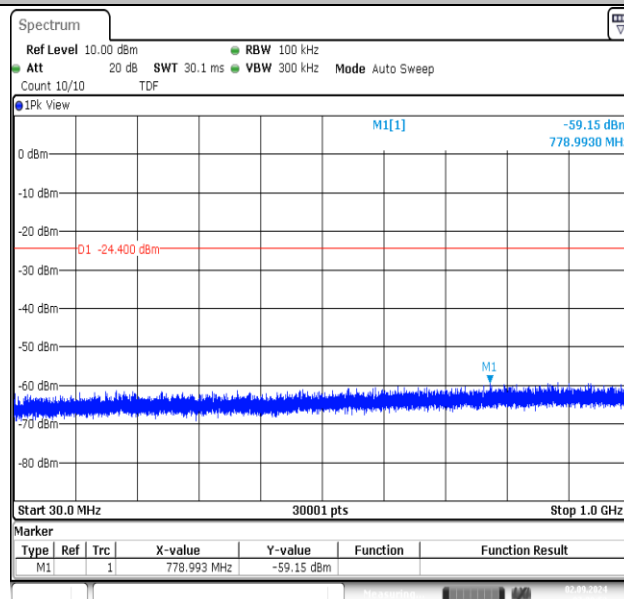
3DH5-Ant1-2402-30~1000-PASS



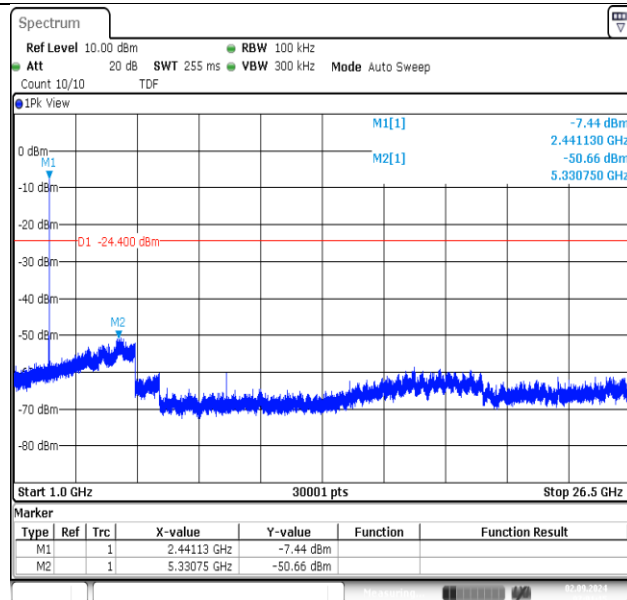
3DH5-Ant1-2402-1000~26500-PASS



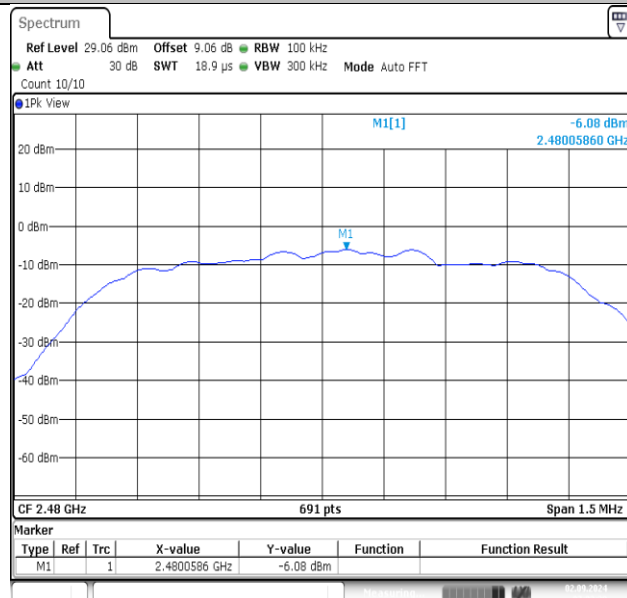
3DH5-Ant1-2441-0~Reference-PASS



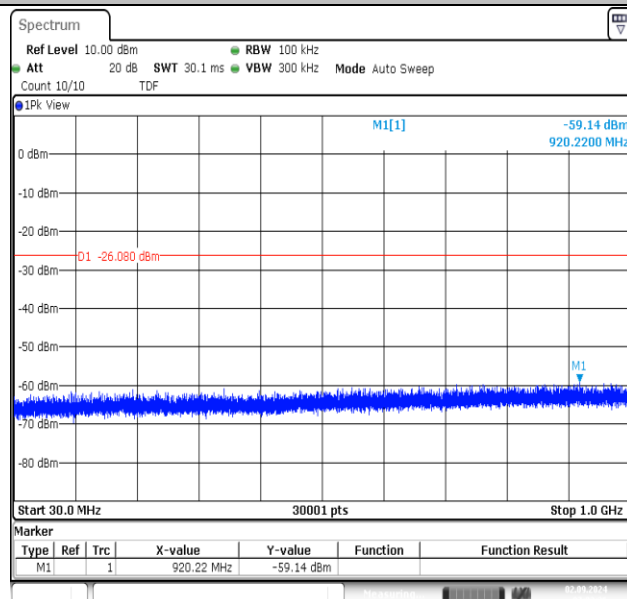
3DH5-Ant1-2441-30~1000-PASS



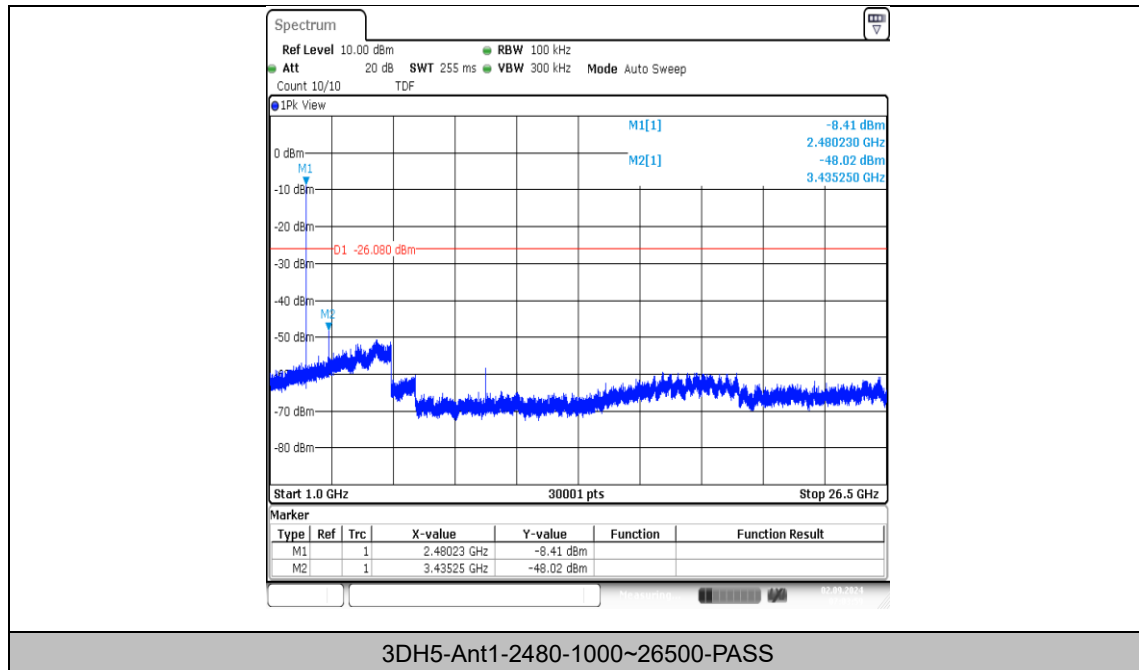
3DH5-Ant1-2441-1000~26500-PASS



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



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

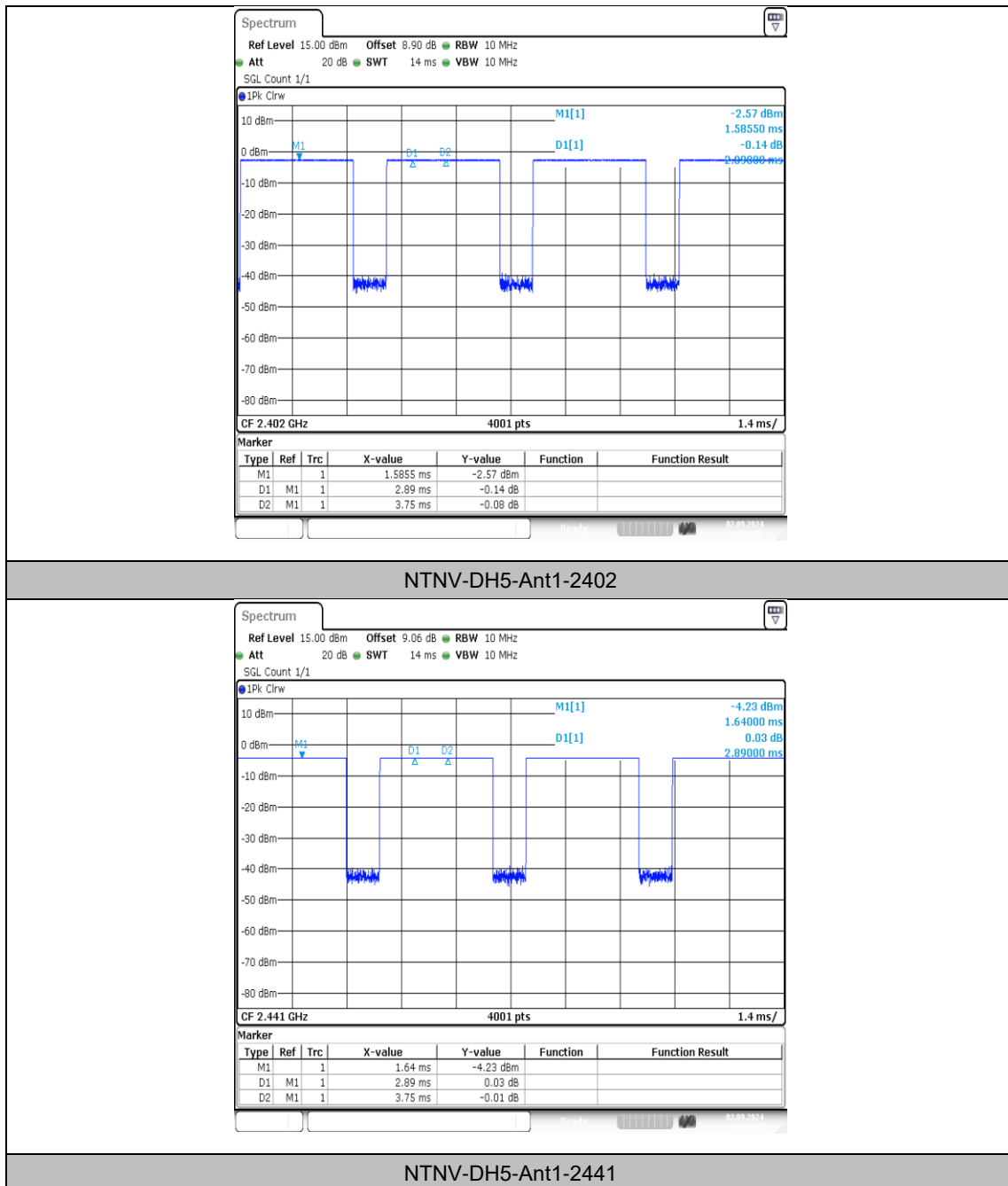


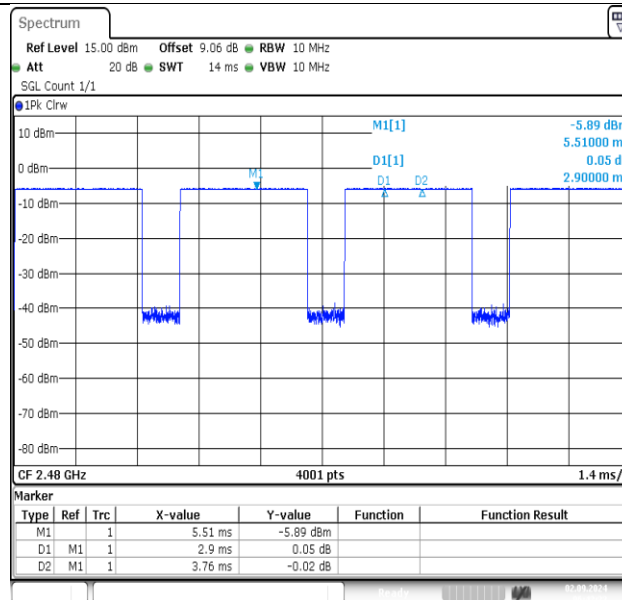
Appendix I: Duty Cycle

Test Result

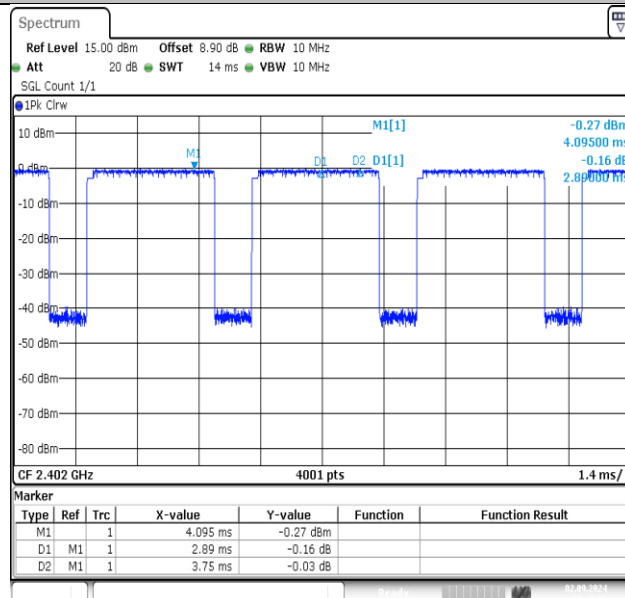
TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.90	3.76	77.13	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs

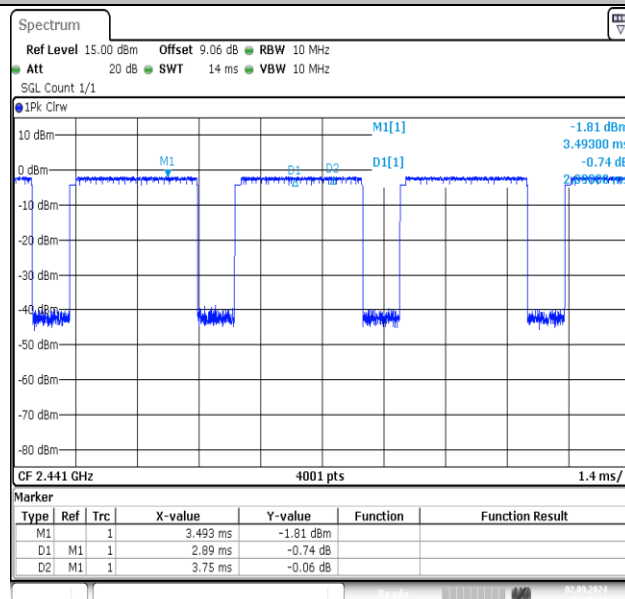




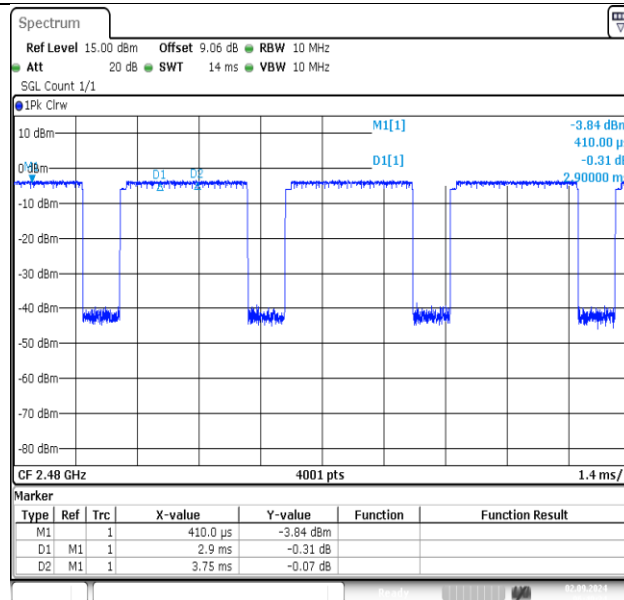
NTNV-DH5-Ant1-2480



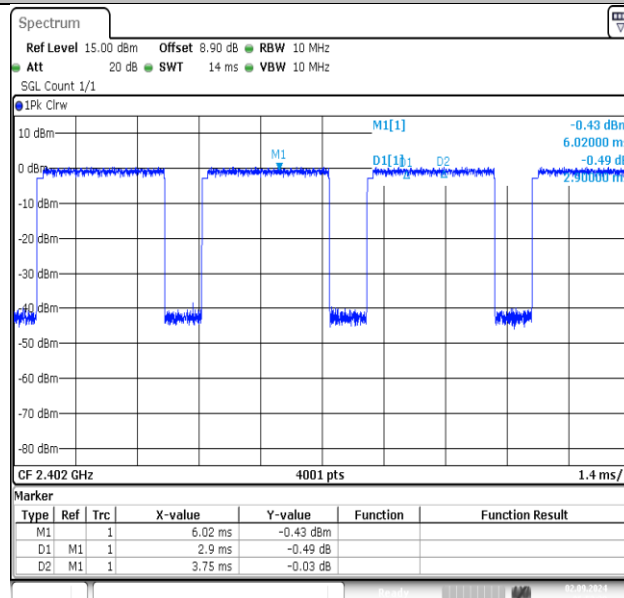
NTNV-2DH5-Ant1-2402



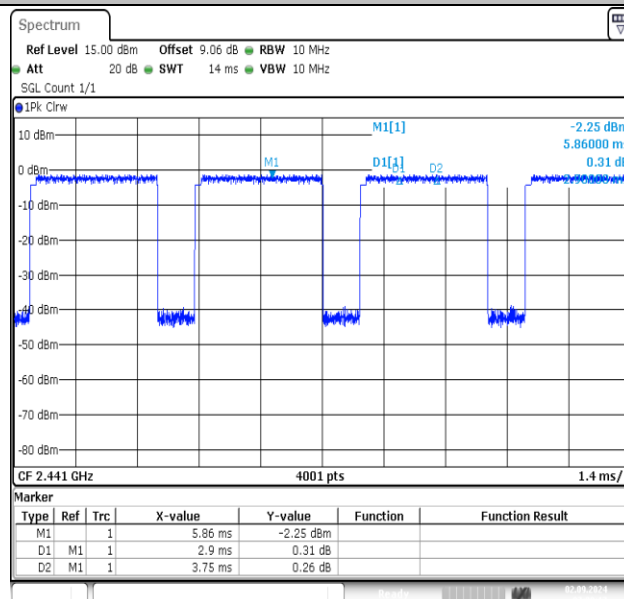
NTNV-2DH5-Ant1-2441



NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

