

FCC Appendix RF Test Data for BT

FCC ID : 2ART9-ELLIQNU310

Company : Intuition Robotics

EUT : ElliQ - K

Model Number : ElliQ NU310

Report No. : CTA26060201502

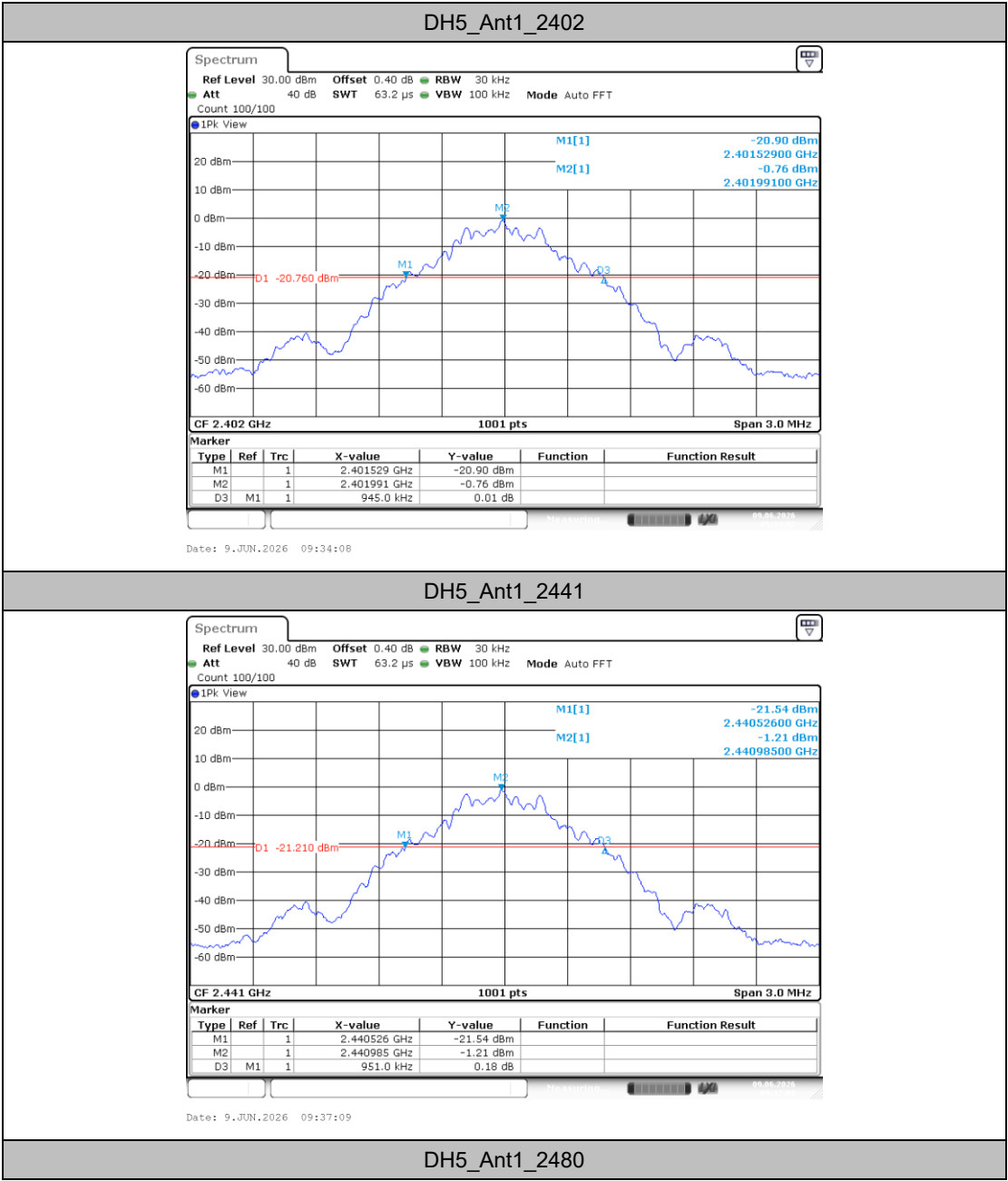
Reviewed By : Eric Wang

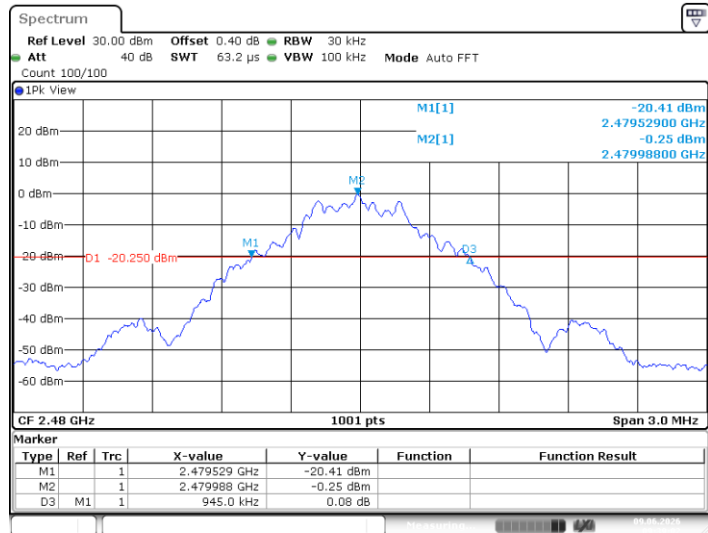
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.53	2402.47	---	---
		2441	0.95	2440.53	2441.48	---	---
		2480	0.95	2479.53	2480.47	---	---
2DH5	Ant1	2402	1.18	2401.39	2402.57	---	---
		2441	1.18	2440.39	2441.57	---	---
		2480	1.18	2479.39	2480.57	---	---
3DH5	Ant1	2402	1.20	2401.40	2402.60	---	---
		2441	1.19	2440.41	2441.60	---	---
		2480	1.19	2479.41	2480.60	---	---

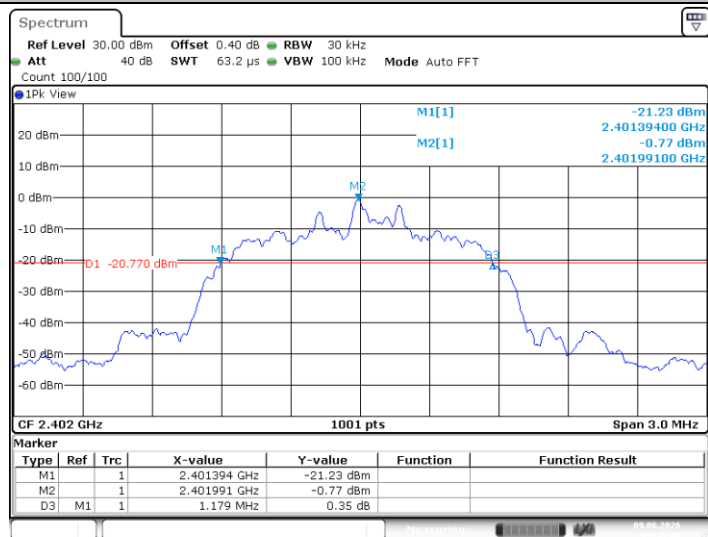
Test Graphs





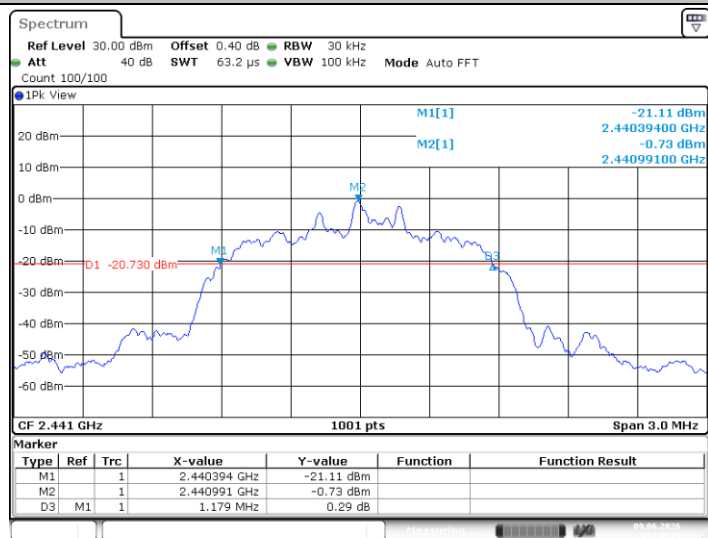
Date: 9.JUN.2026 09:39:02

2DH5_Ant1_2402



Date: 9.JUN.2026 09:45:46

2DH5_Ant1_2441



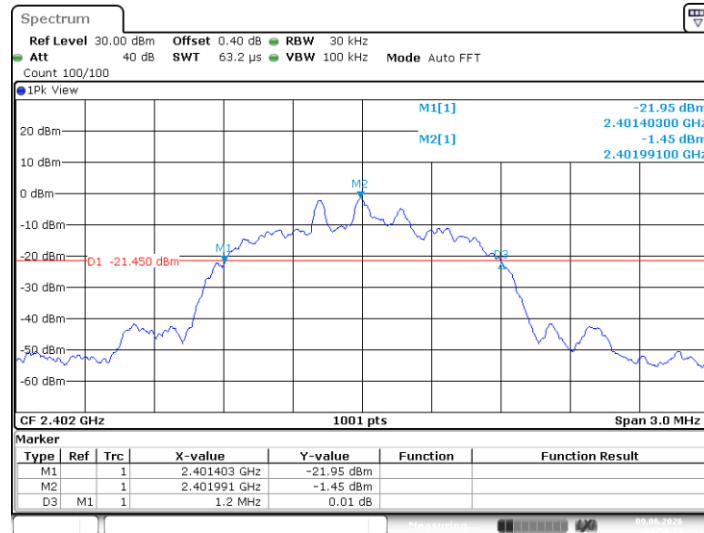
Date: 9.JUN.2026 09:48:26

2DH5_Ant1_2480



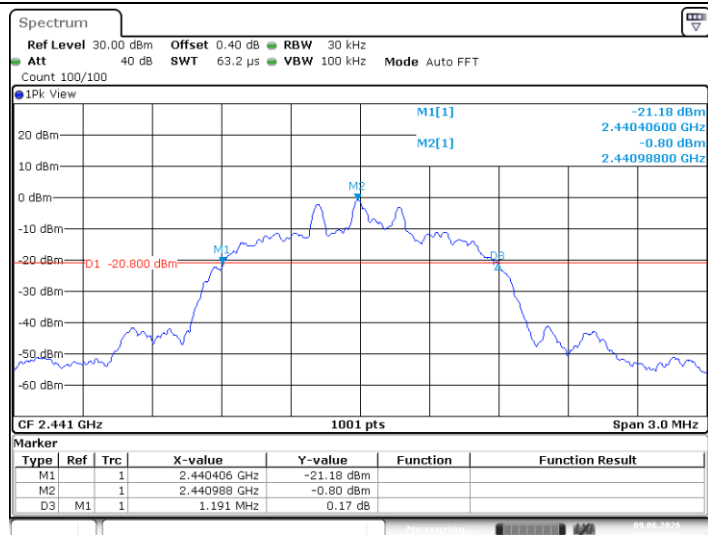
Date: 9.JUN.2026 09:50:21

3DH5_Ant1_2402



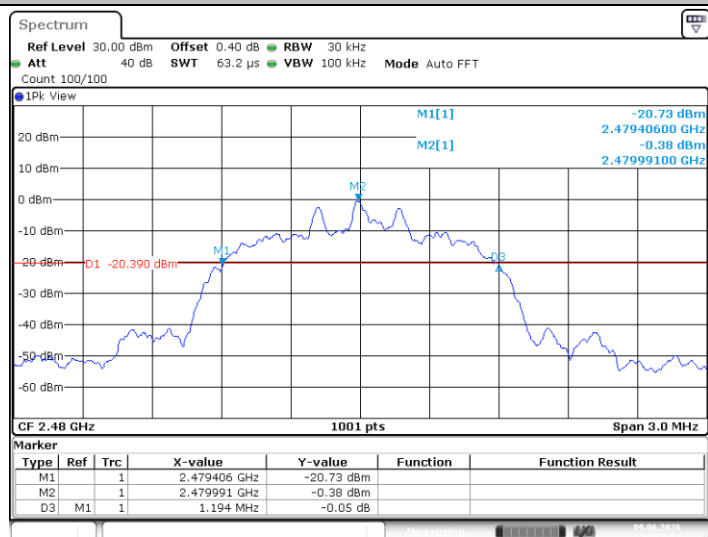
Date: 9.JUN.2026 09:53:22

3DH5_Ant1_2441



Date: 9.JUN.2026 09:56:26

3DH5_Ant1_2480



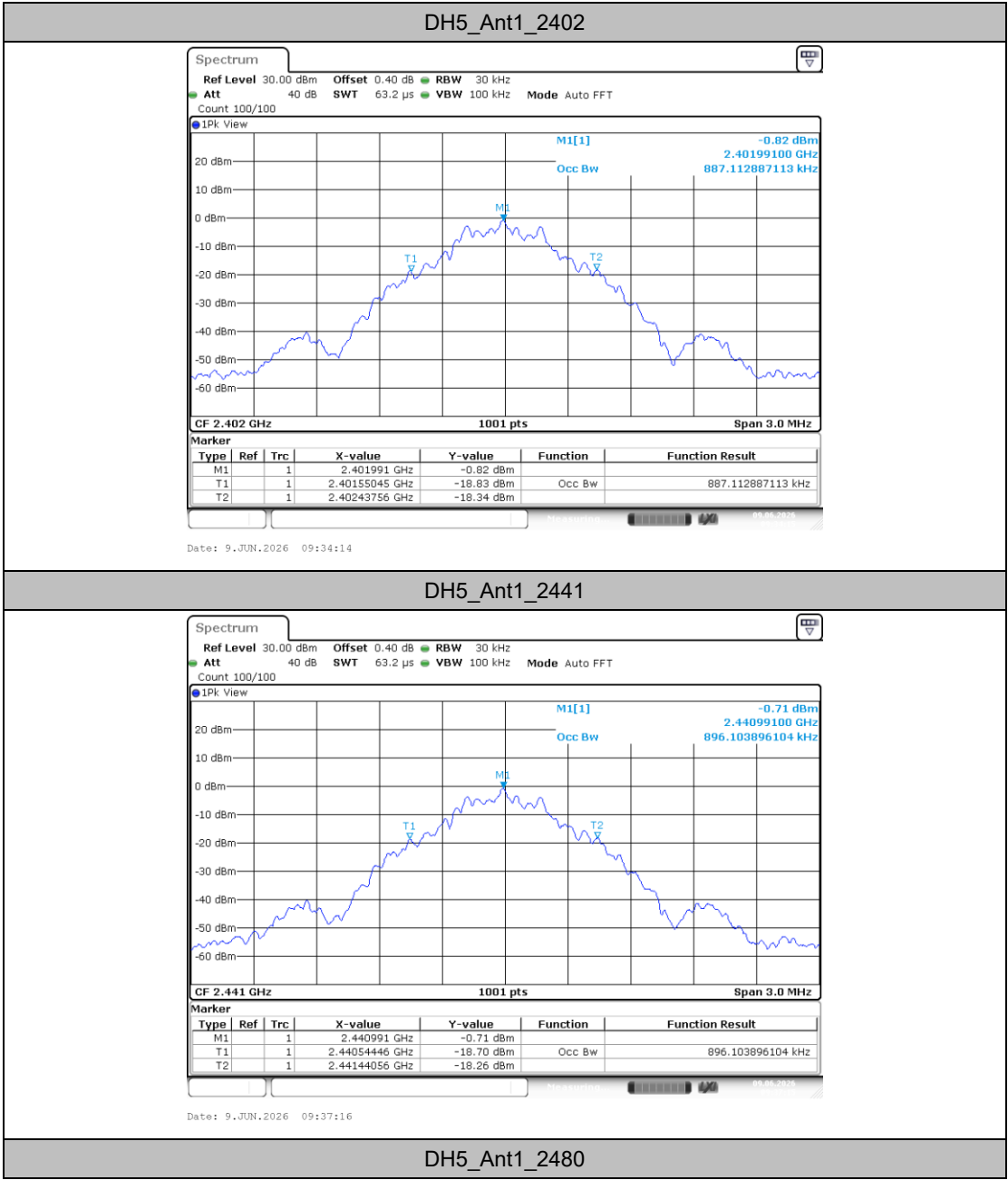
Date: 9.JUN.2026 09:58:14

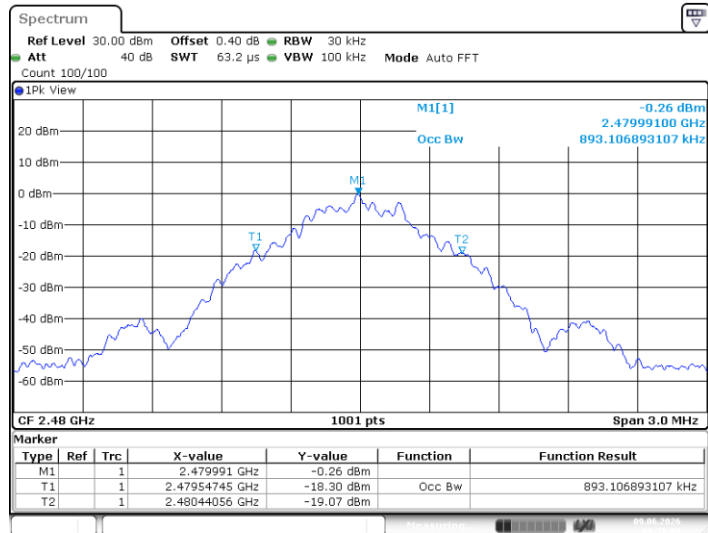
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88711	2401.5504	2402.4376	---	---
		2441	0.89610	2440.5445	2441.4406	---	---
		2480	0.89311	2479.5475	2480.4406	---	---
2DH5	Ant1	2402	1.1329	2401.4246	2402.5574	---	---
		2441	1.1329	2440.4246	2441.5574	---	---
		2480	1.1269	2479.4276	2480.5544	---	---
3DH5	Ant1	2402	1.1239	2401.4306	2402.5544	---	---
		2441	1.1329	2440.4276	2441.5604	---	---
		2480	1.1269	2479.4306	2480.5574	---	---

Test Graphs





Date: 9.JUN.2026 09:39:09

2DH5_Ant1_2402



Date: 9.JUN.2026 09:45:53

2DH5_Ant1_2441



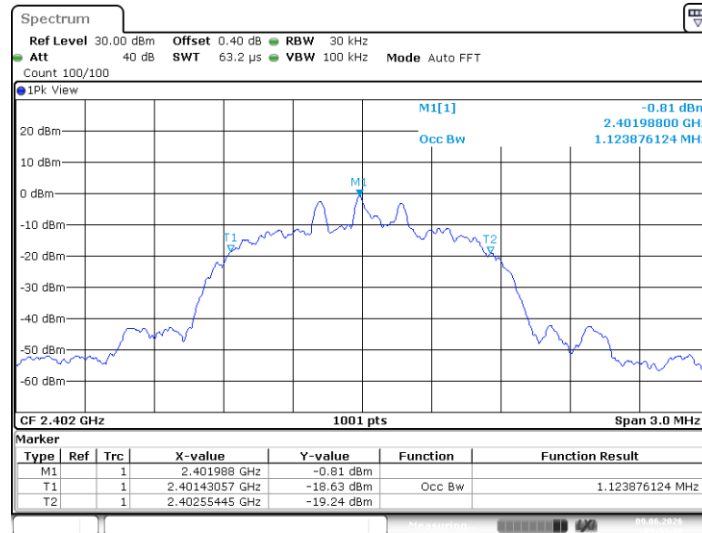
Date: 9.JUN.2026 09:48:32

2DH5_Ant1_2480



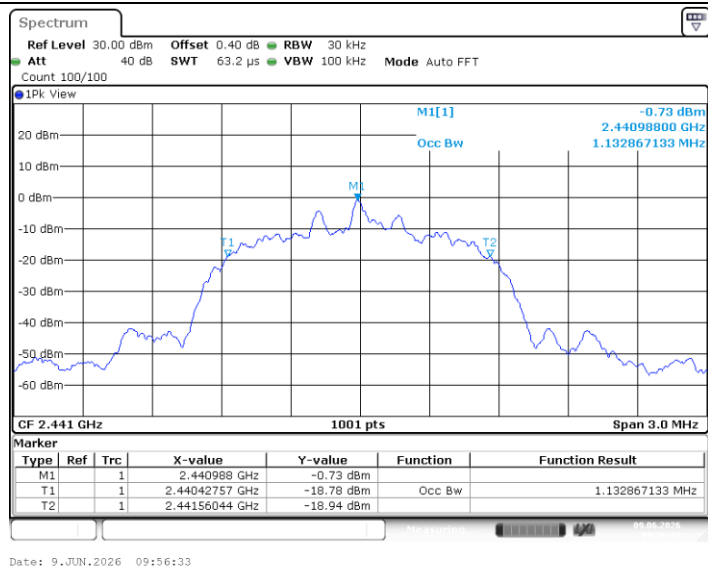
Date: 9.JUN.2026 09:50:28

3DH5_Ant1_2402

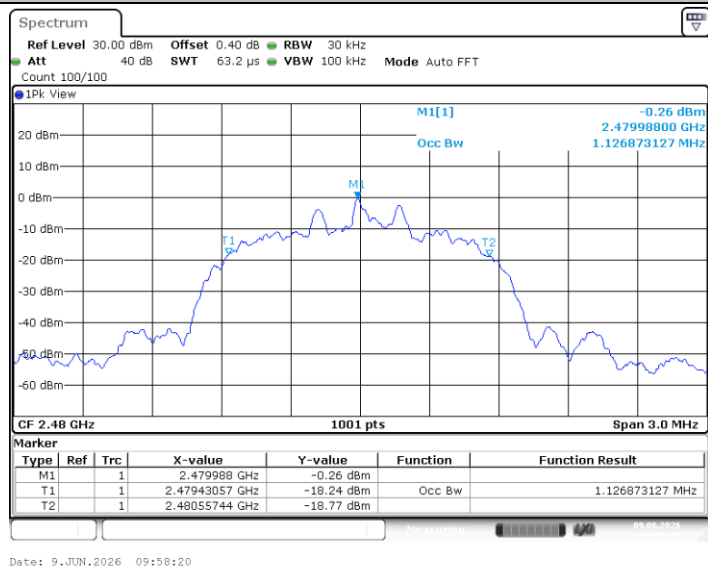


Date: 9.JUN.2026 09:53:30

3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

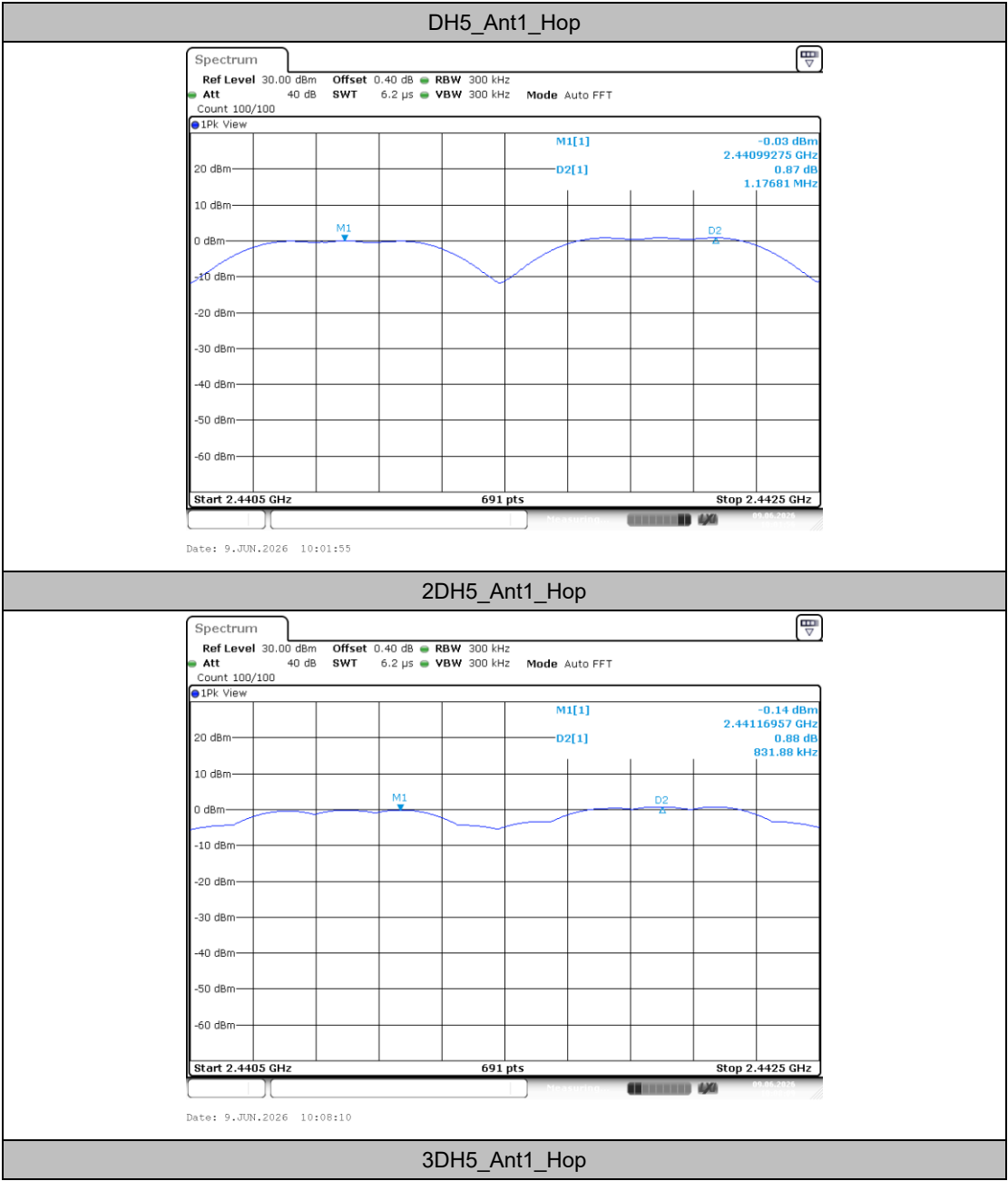
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.17	≤20.97	PASS
		2441	0.27	≤20.97	PASS
		2480	0.73	≤20.97	PASS
2DH5	Ant1	2402	0.04	≤20.97	PASS
		2441	-0.01	≤20.97	PASS
		2480	0.65	≤20.97	PASS
3DH5	Ant1	2402	-0.16	≤20.97	PASS
		2441	0.04	≤20.97	PASS
		2480	0.44	≤20.97	PASS

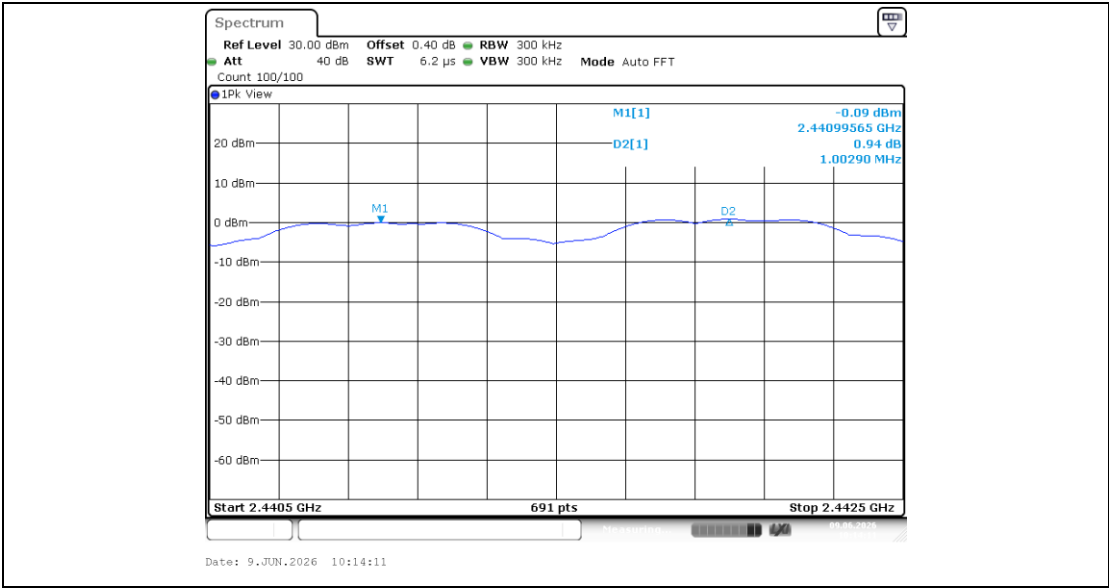
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.177	≥ 0.950	PASS
2DH5	Ant1	Hop	0.832	≥ 0.787	PASS
3DH5	Ant1	Hop	1.003	≥ 0.800	PASS

Test Graphs



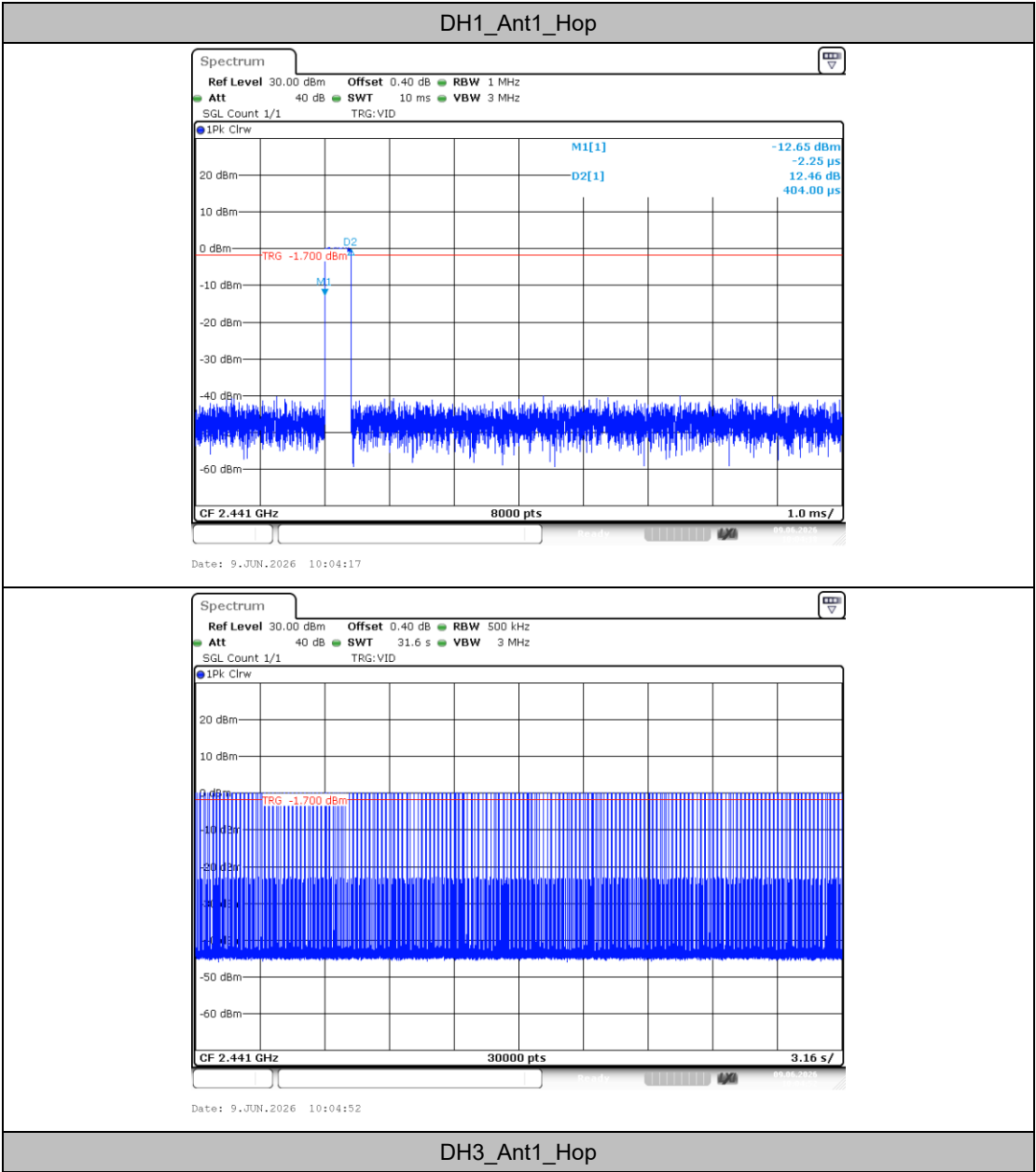


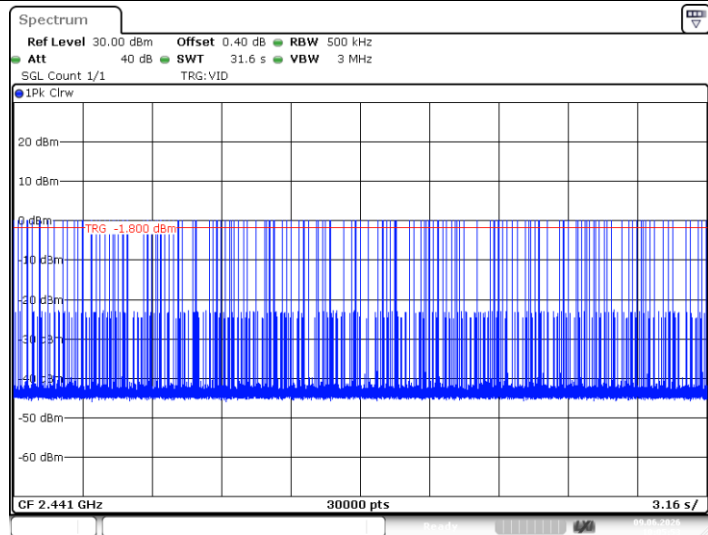
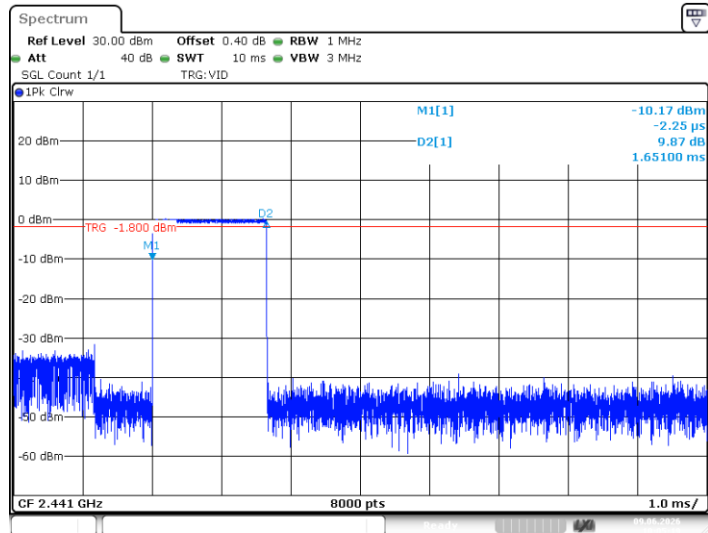
Appendix E: Time of occupancy

Test Result

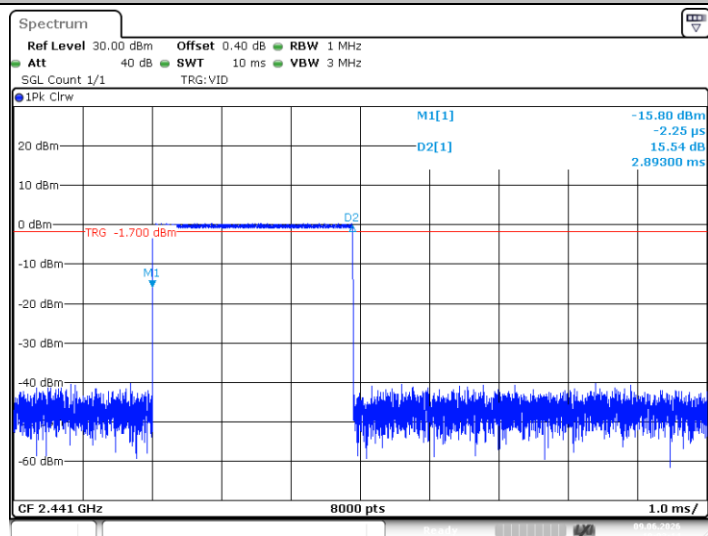
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.404	317	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.651	157	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.893	113	0.327	≤0.4	PASS
2DH1	Ant1	Hop	0.414	313	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.658	158	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.899	104	0.301	≤0.4	PASS
3DH1	Ant1	Hop	0.414	317	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.656	164	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.899	120	0.348	≤0.4	PASS

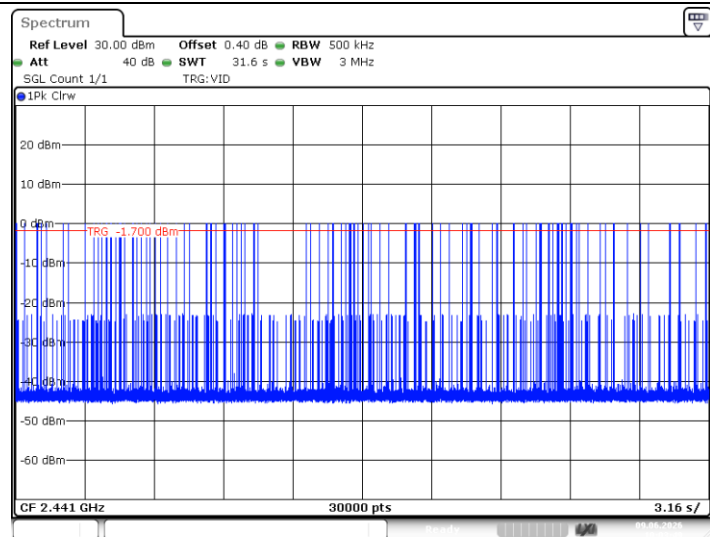
Test Graphs





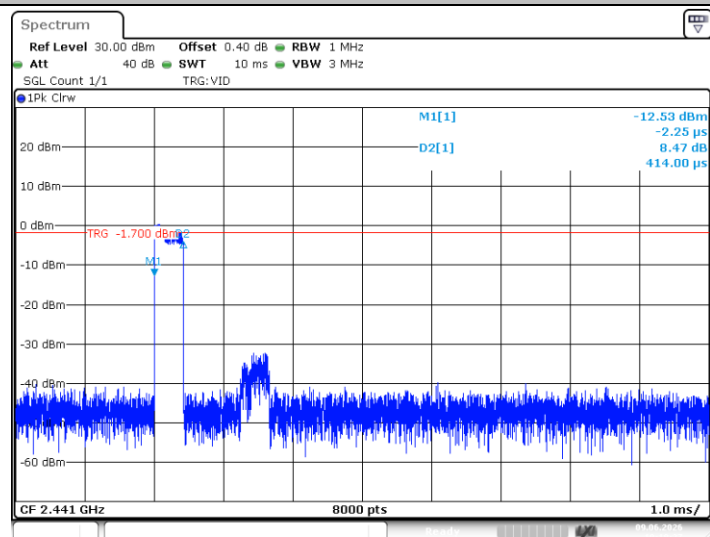
DH5_Ant1_Hop



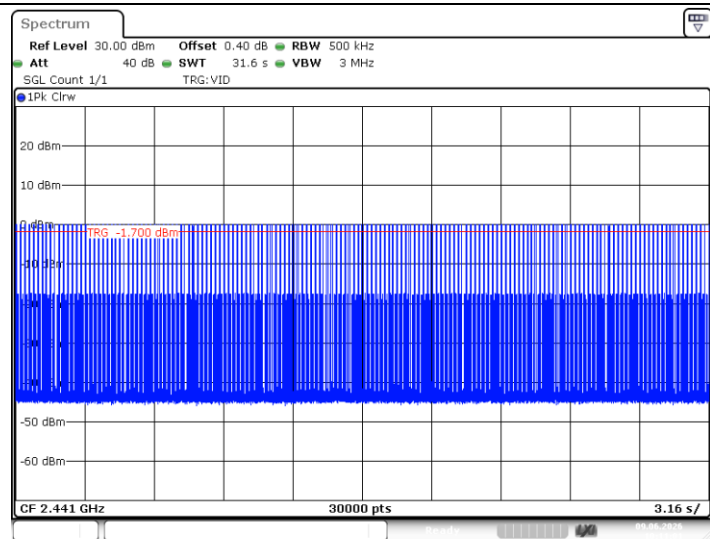


Date: 9.JUN.2026 10:03:48

2DH1_Ant1_Hop

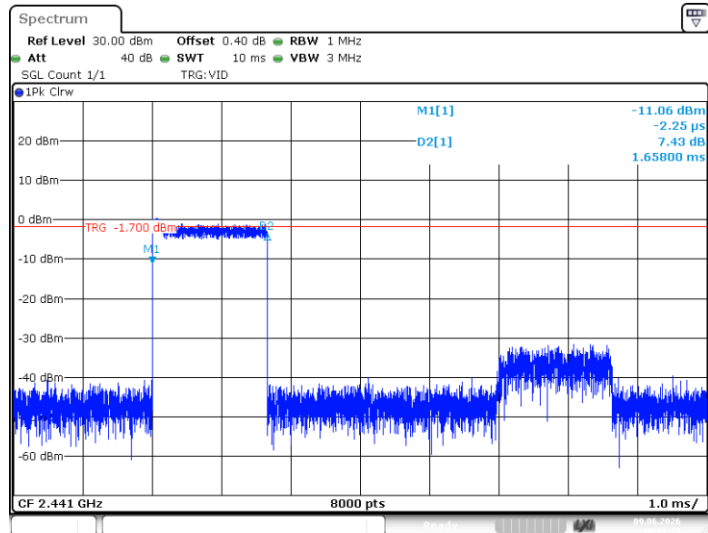


Date: 9.JUN.2026 10:10:27

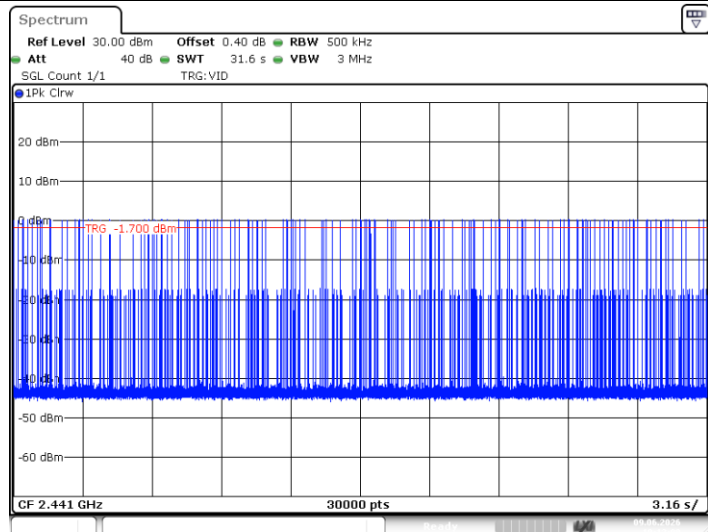


Date: 9.JUN.2026 10:11:01

2DH3_Ant1_Hop

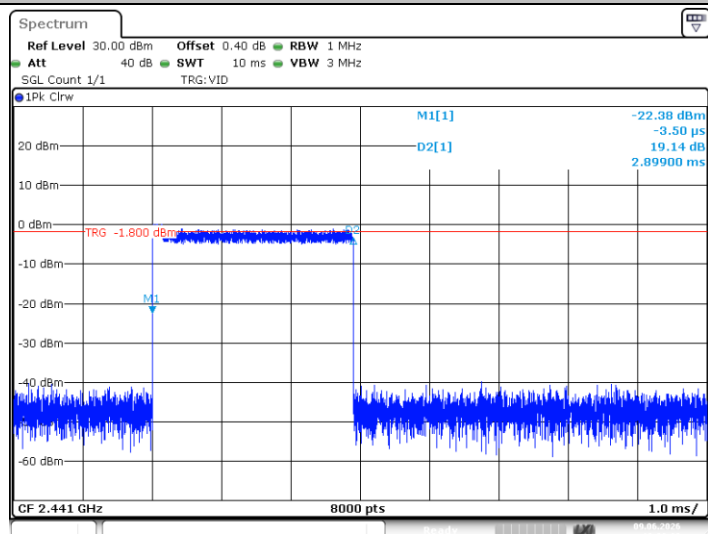


Date: 9.JUN.2026 10:11:25

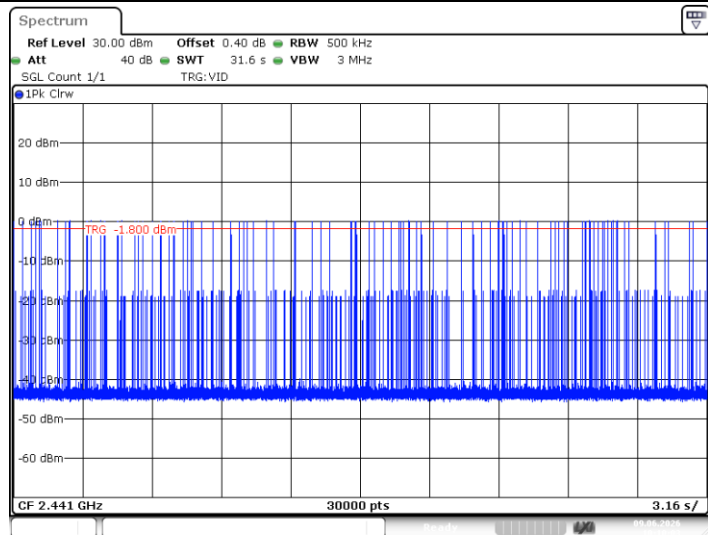


Date: 9.JUN.2026 10:12:00

2DH5_Ant1_Hop

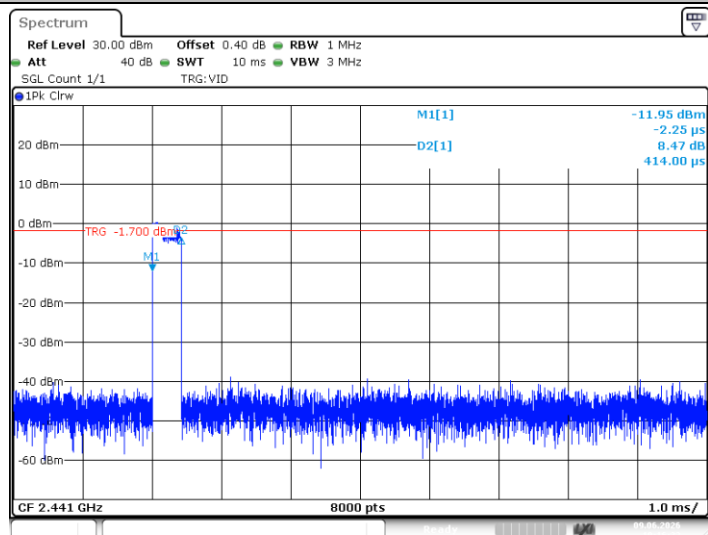


Date: 9.JUN.2026 10:09:29

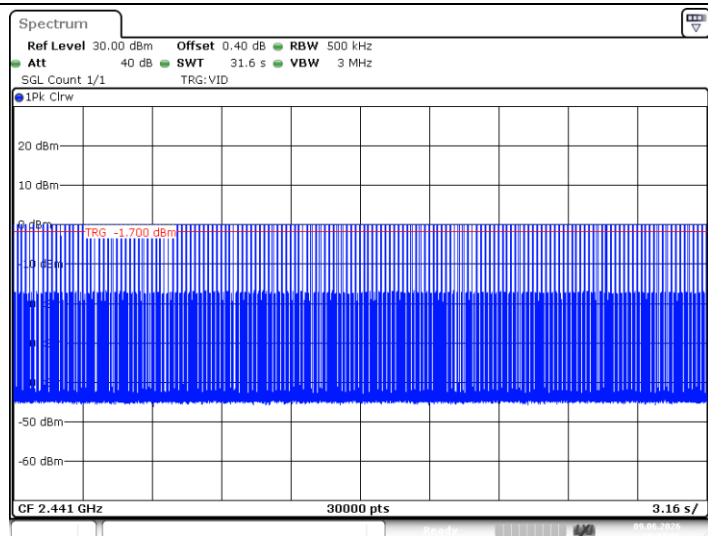


Date: 9.JUN.2026 10:10:03

3DH1_Ant1_Hop

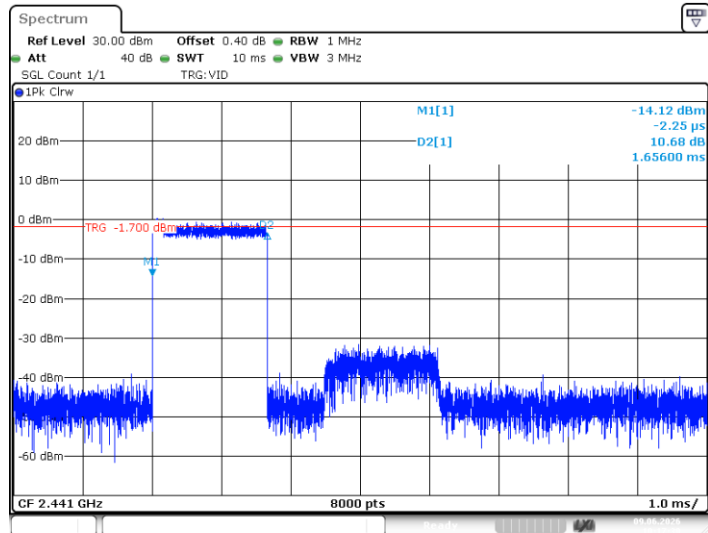


Date: 9.JUN.2026 10:16:31

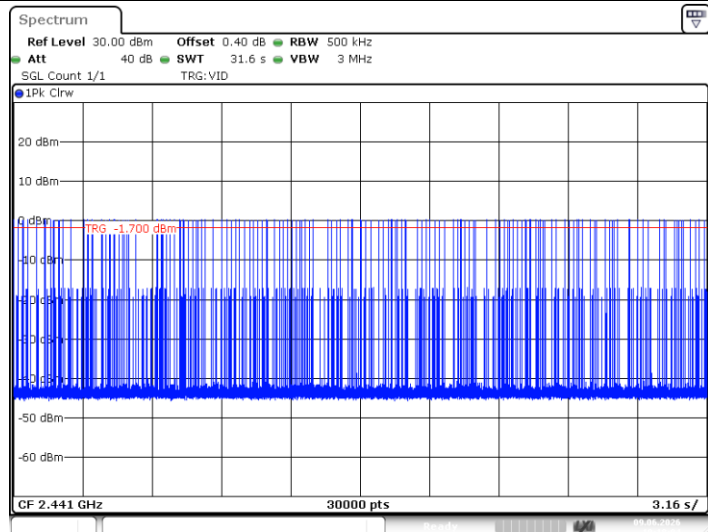


Date: 9.JUN.2026 10:17:06

3DH3_Ant1_Hop

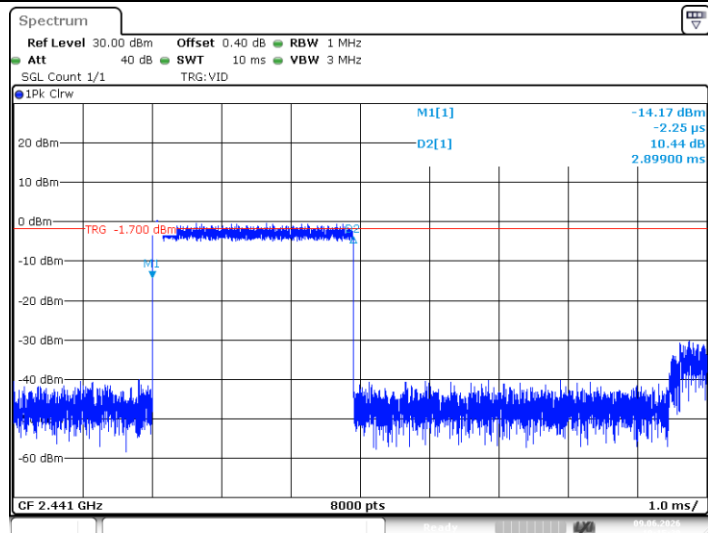


Date: 9.JUN.2026 10:17:29

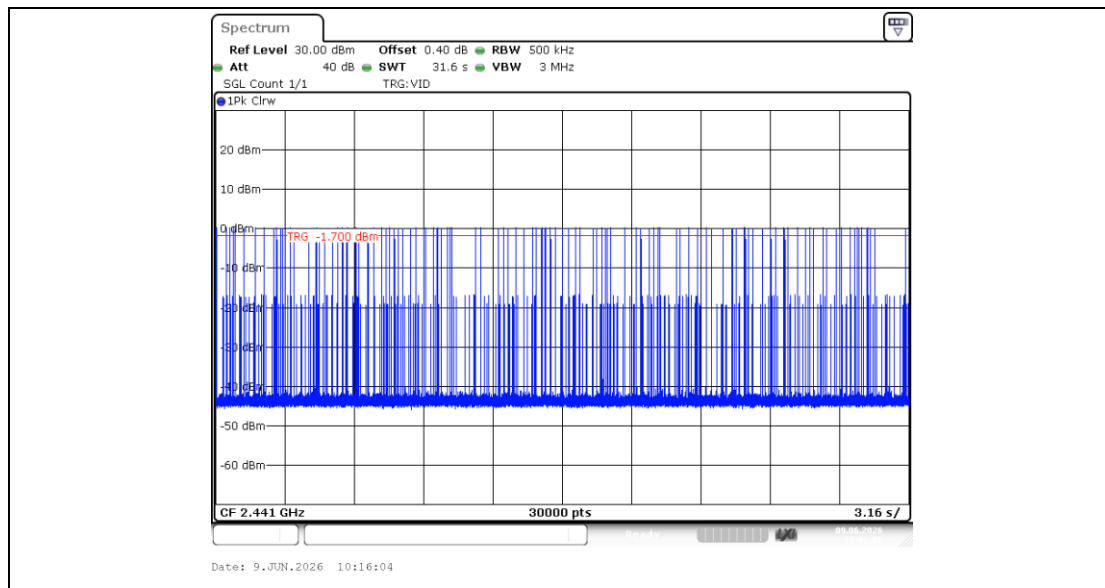


Date: 9.JUN.2026 10:18:04

3DH5_Ant1_Hop



Date: 9.JUN.2026 10:15:30

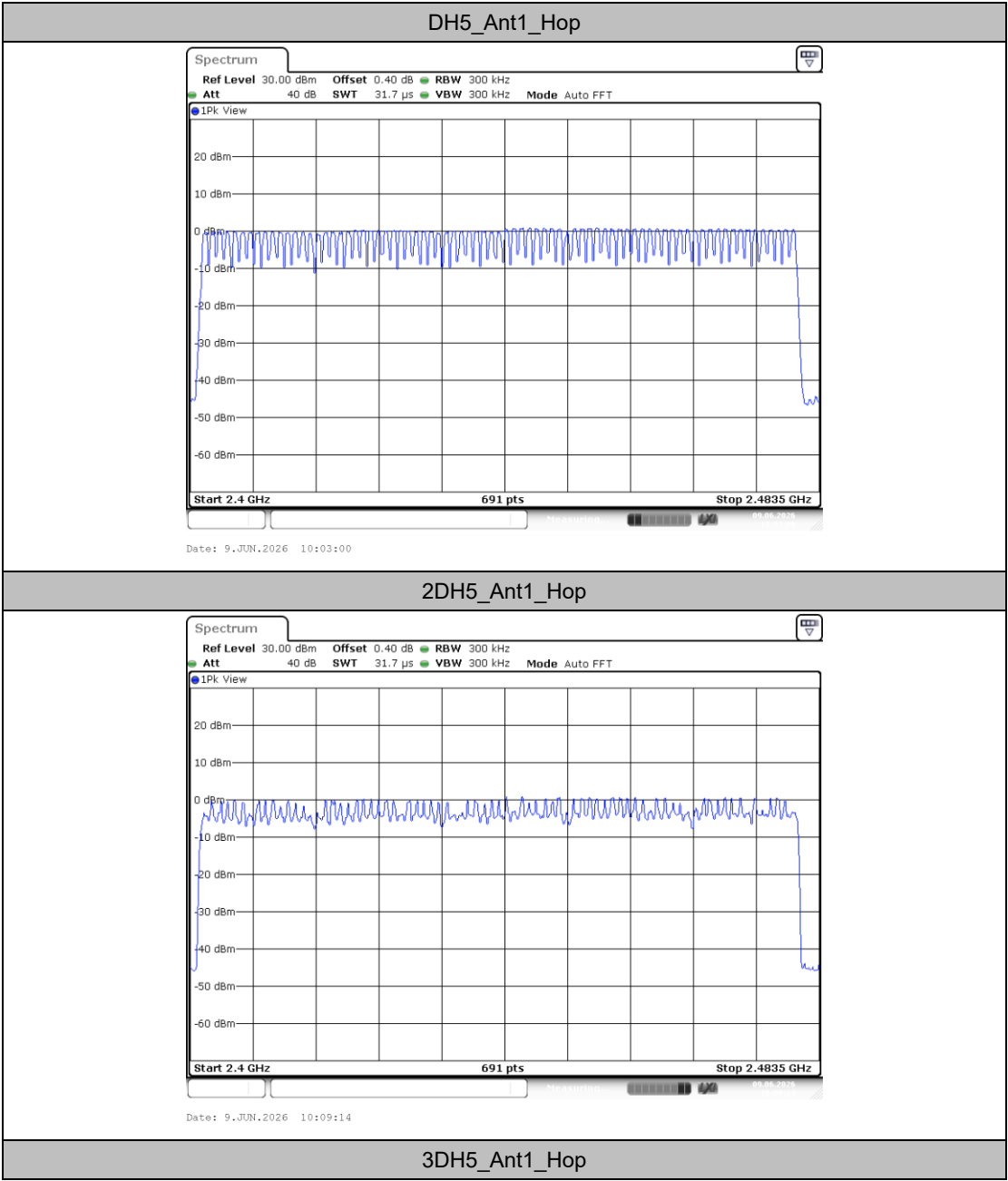


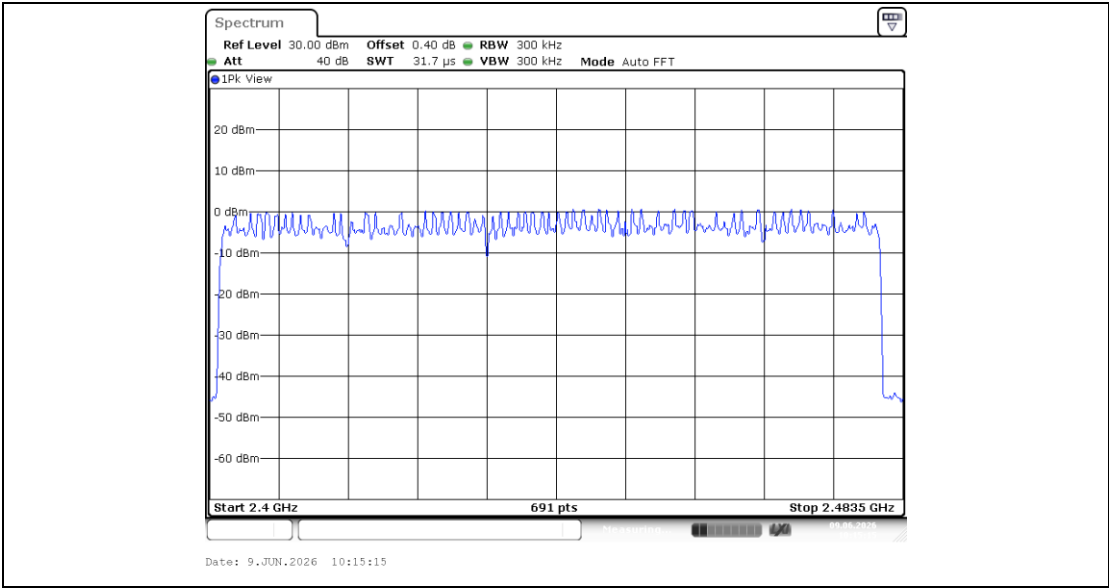
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(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



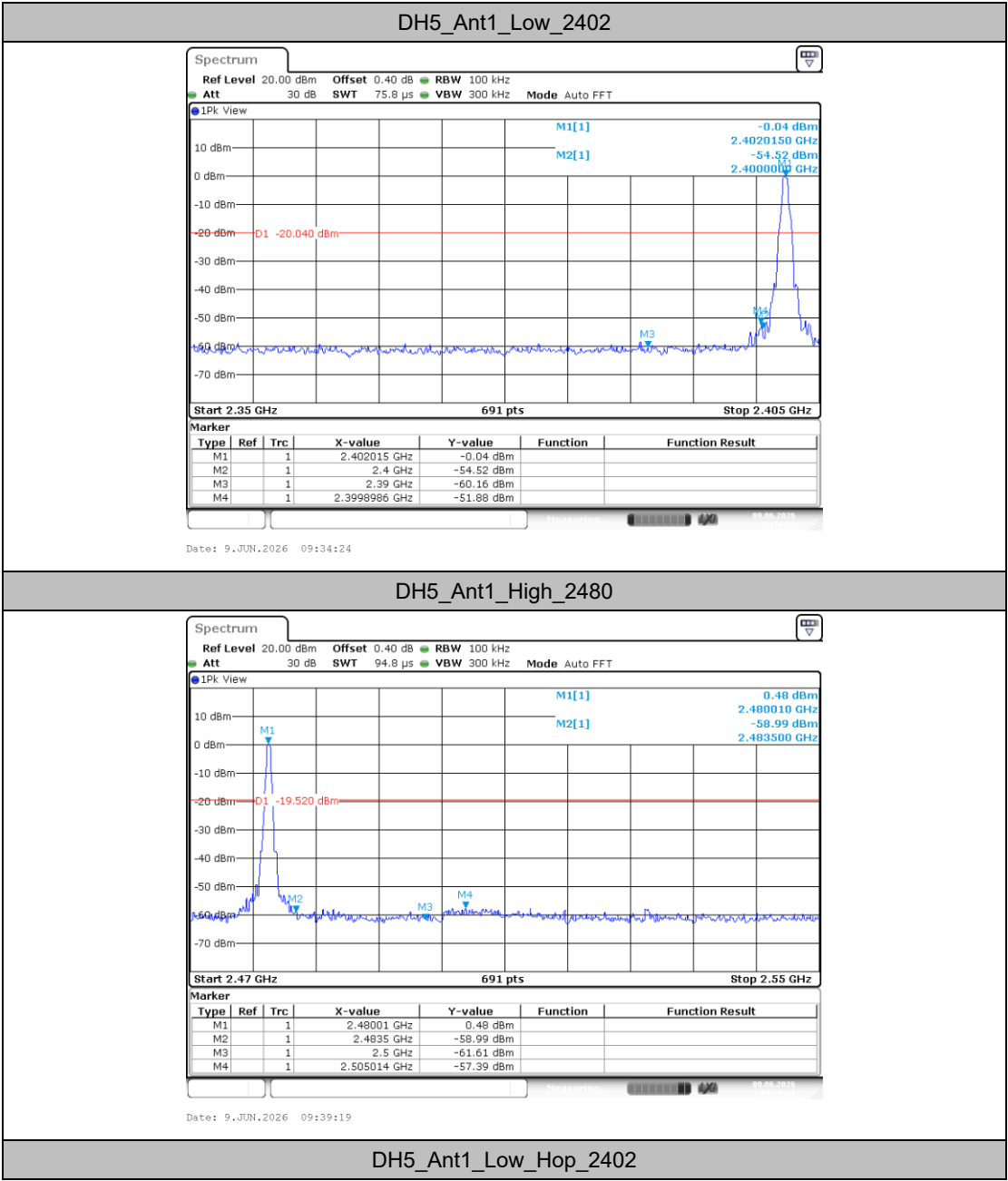


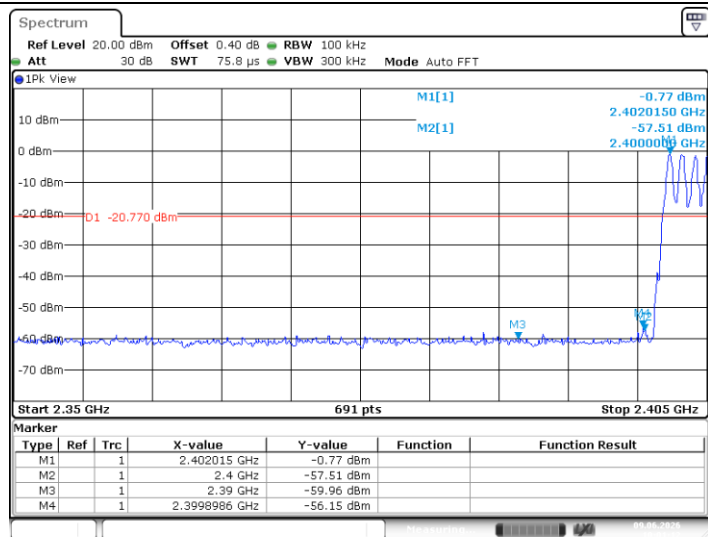
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.04	-51.88	≤-20.04	PASS
		High	2480	0.48	-57.39	≤-19.52	PASS
		Low	Hop_2402	-0.77	-56.15	≤-20.77	PASS
		High	Hop_2480	-0.19	-56.87	≤-20.19	PASS
2DH5	Ant1	Low	2402	-0.07	-54.85	≤-20.07	PASS
		High	2480	0.48	-57.41	≤-19.52	PASS
		Low	Hop_2402	-3.60	-58.42	≤-23.6	PASS
		High	Hop_2480	-2.74	-56.85	≤-22.74	PASS
3DH5	Ant1	Low	2402	-0.10	-54.89	≤-20.1	PASS
		High	2480	0.46	-56.91	≤-19.54	PASS
		Low	Hop_2402	-3.79	-58.74	≤-23.79	PASS
		High	Hop_2480	0.36	-56.23	≤-19.64	PASS

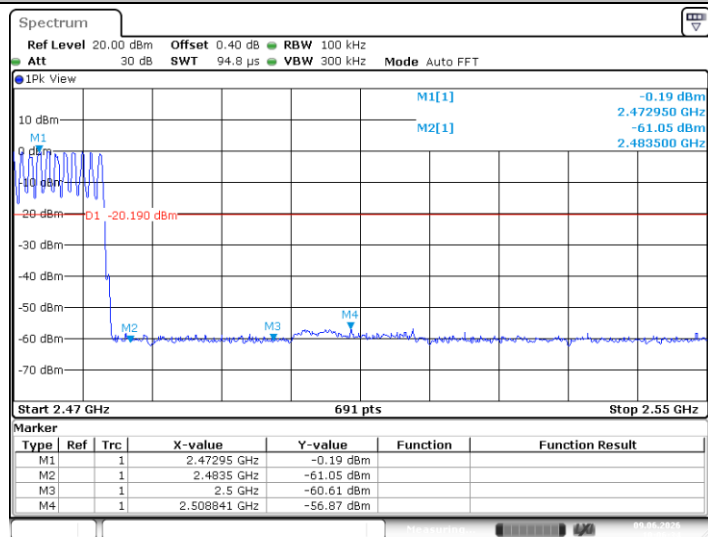
Test Graphs





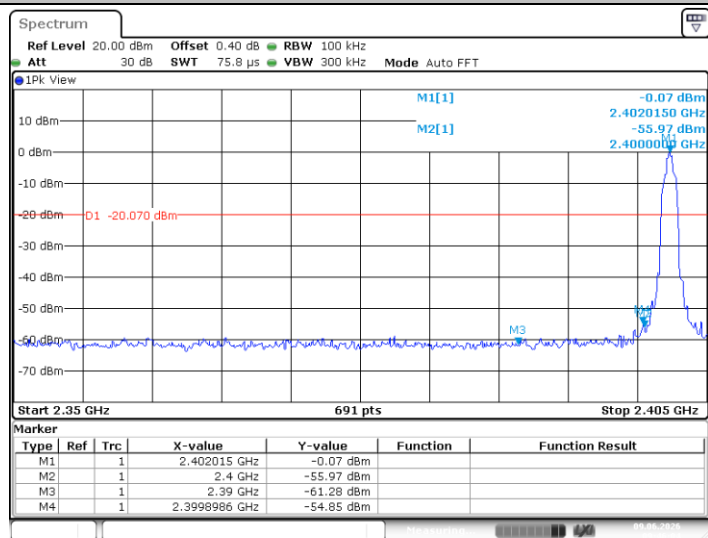
Date: 9.JUN.2026 10:01:11

DH5_Ant1_High_Hop_2480



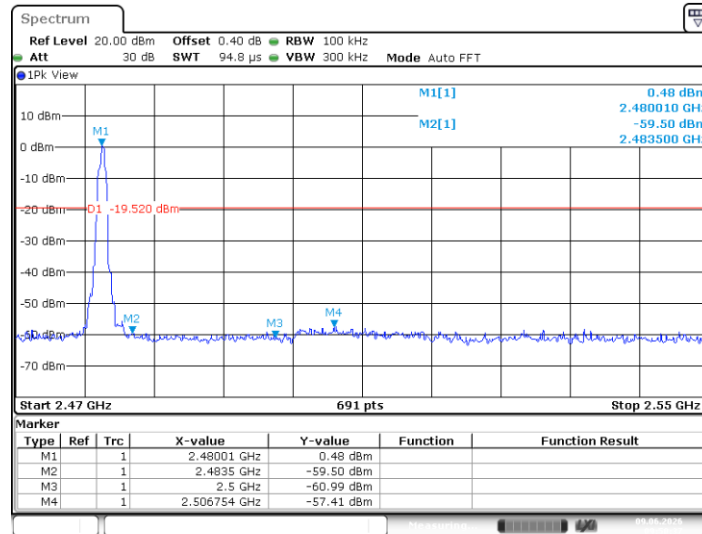
Date: 9.JUN.2026 10:06:34

2DH5_Ant1_Low_2402



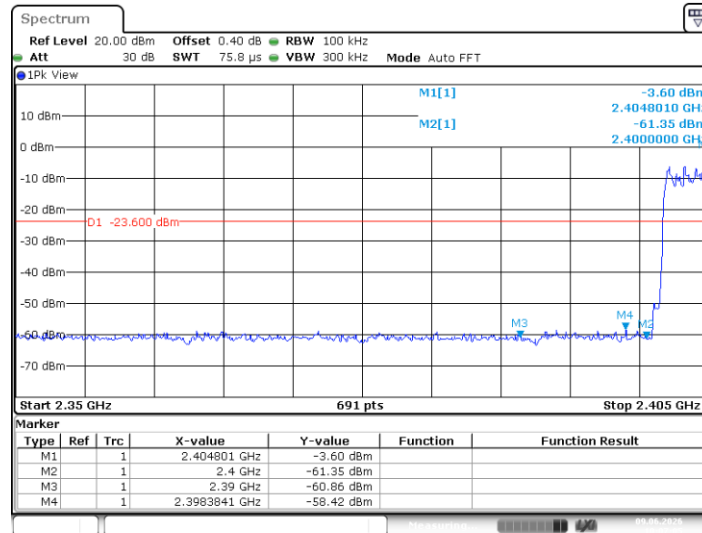
Date: 9.JUN.2026 09:46:03

2DH5_Ant1_High_2480



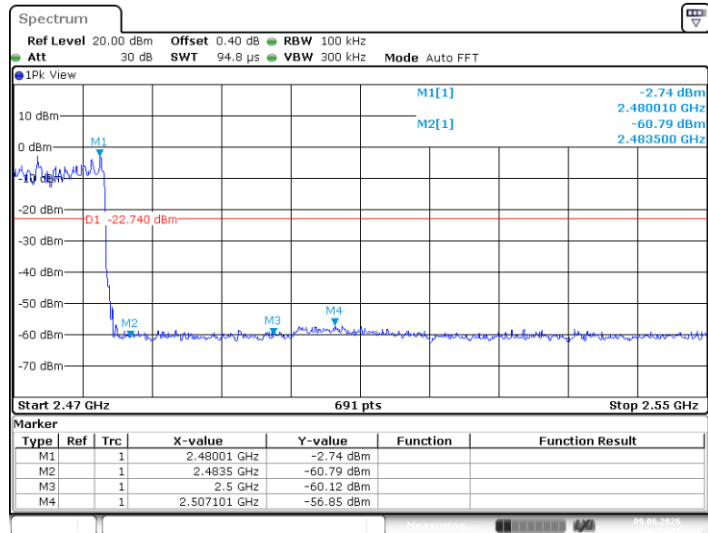
Date: 9.JUN.2026 09:50:38

2DH5_Ant1_Low_Hop_2402



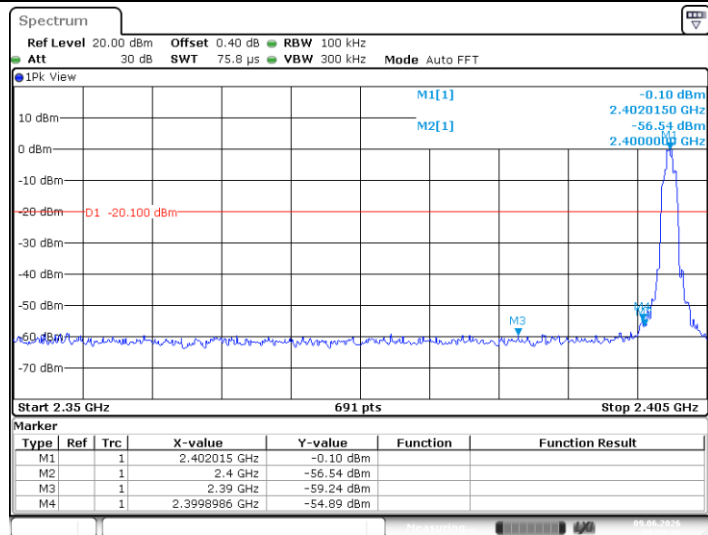
Date: 9.JUN.2026 10:07:05

2DH5_Ant1_High_Hop_2480



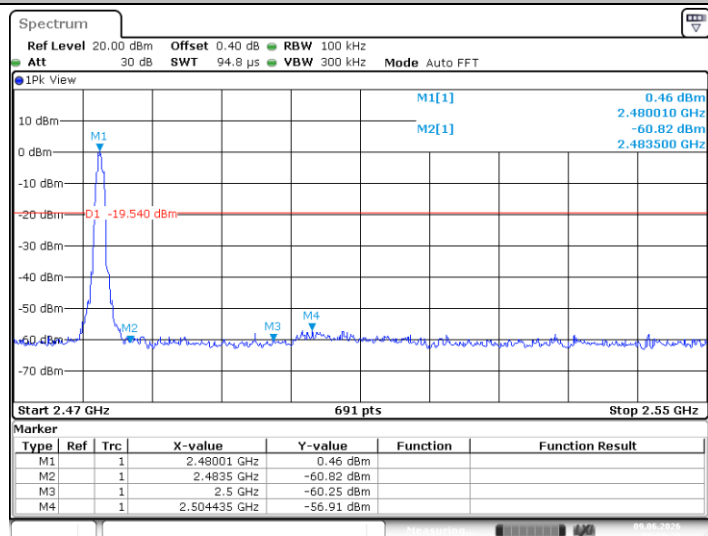
Date: 9.JUN.2026 10:12:30

3DH5_Ant1_Low_2402



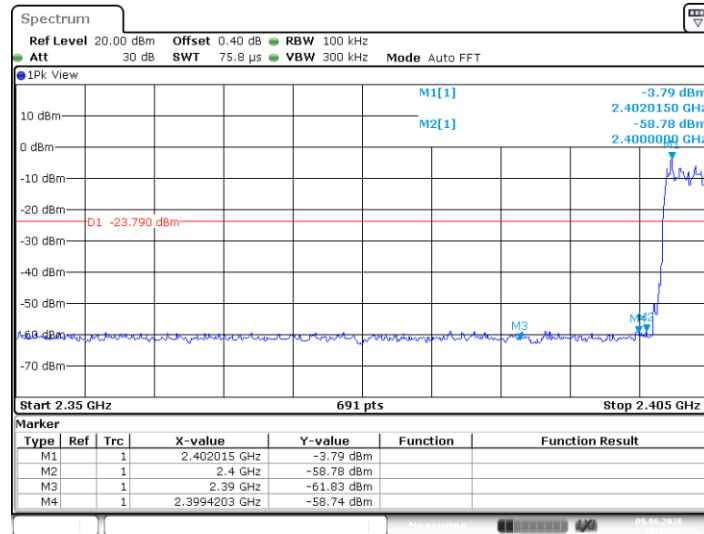
Date: 9.JUN.2026 09:53:40

3DH5_Ant1_High_2480



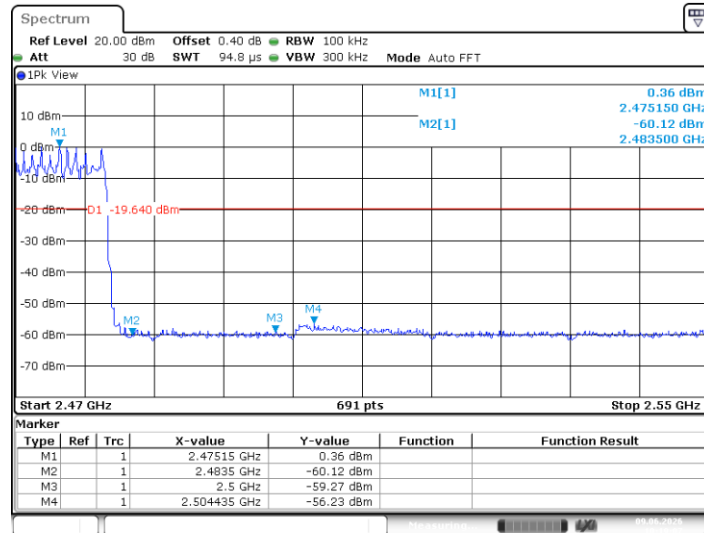
Date: 9.JUN.2026 09:58:30

3DH5_Ant1_Low_Hop_2402



Date: 9.JUN.2026 10:13:07

3DH5_Ant1_High_Hop_2480



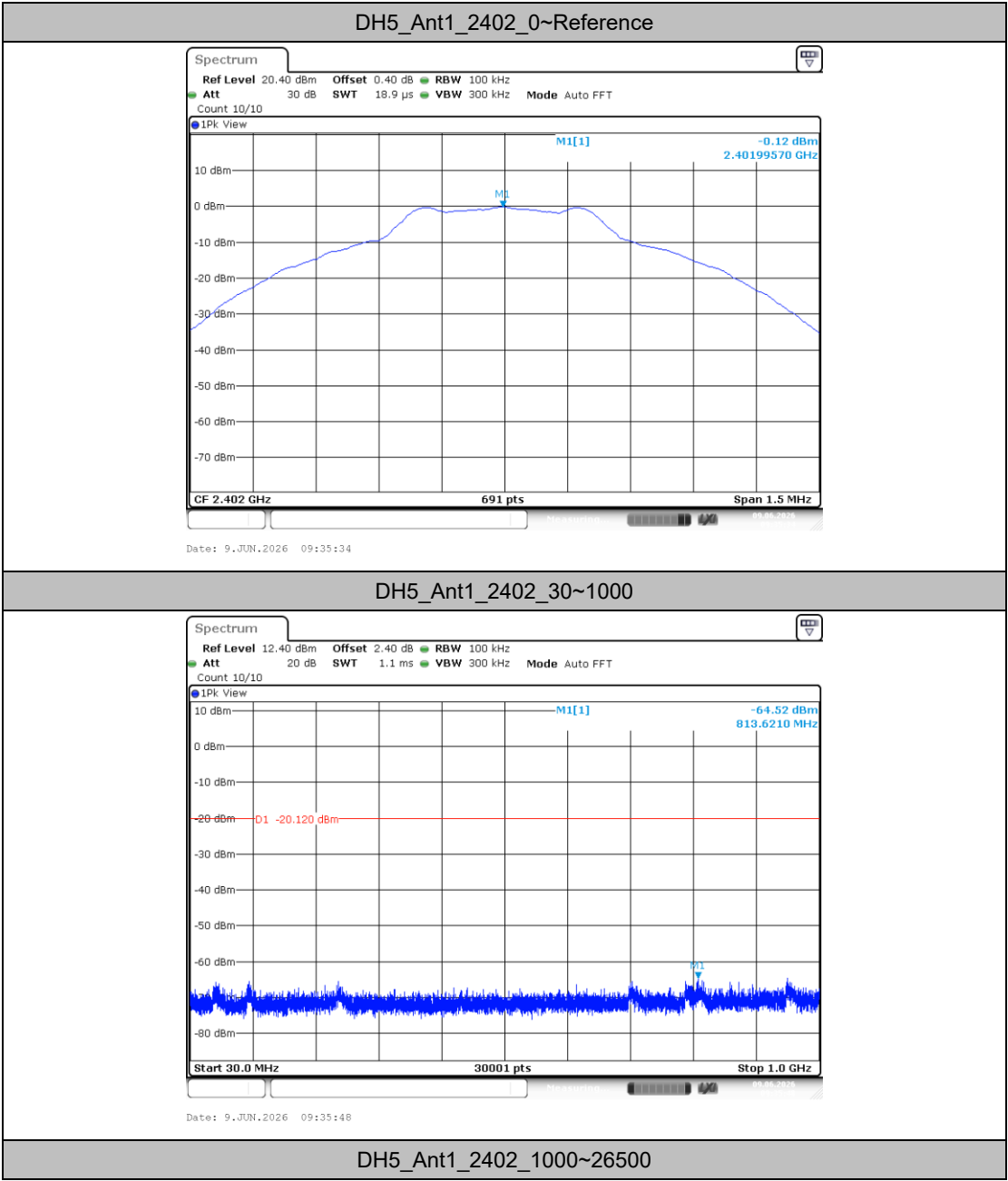
Date: 9.JUN.2026 10:19:07

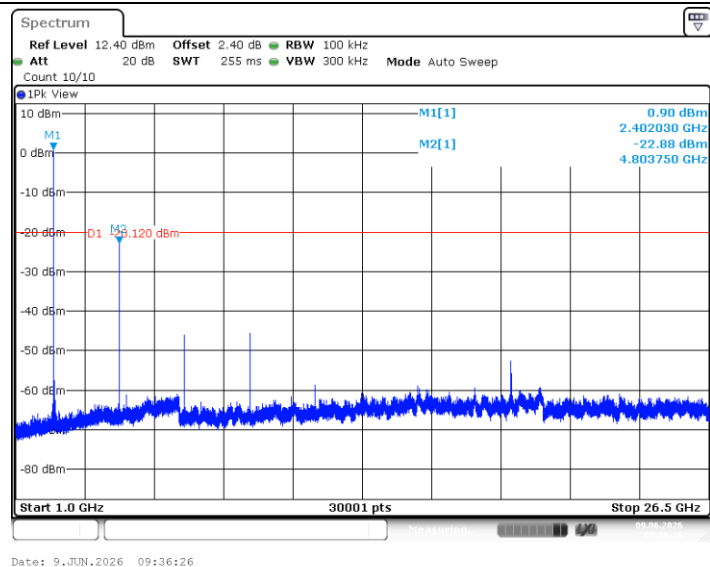
Appendix H: Conducted Spurious Emission

Test Result

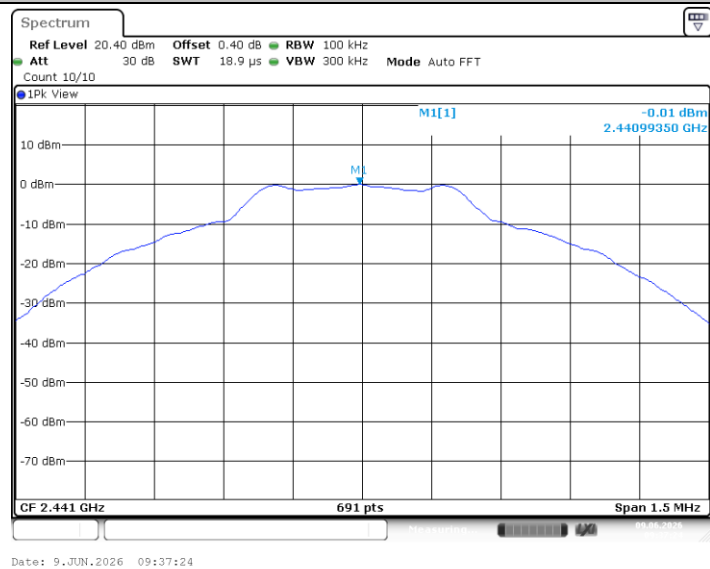
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-64.52	≤-20.12	PASS
			1000~26500	-0.12	-22.88	≤-20.12	PASS
		2441	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-64.79	≤-20.01	PASS
			1000~26500	-0.01	-22.59	≤-20.01	PASS
		2480	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-64.57	≤-19.57	PASS
			1000~26500	0.43	-26.26	≤-19.57	PASS
2DH5	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-3.20	-63.68	≤-23.2	PASS
			1000~26500	-3.20	-36.92	≤-23.2	PASS
		2441	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-64.27	≤-20.04	PASS
			1000~26500	-0.04	-23.05	≤-20.04	PASS
		2480	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-64.65	≤-19.59	PASS
			1000~26500	0.41	-23.54	≤-19.59	PASS
3DH5	Ant1	2402	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-63.3	≤-20.15	PASS
			1000~26500	-0.15	-31.2	≤-20.15	PASS
		2441	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-63.39	≤-20.05	PASS
			1000~26500	-0.05	-31.66	≤-20.05	PASS
		2480	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-64.5	≤-19.59	PASS
			1000~26500	0.41	-31.25	≤-19.59	PASS

Test Graphs

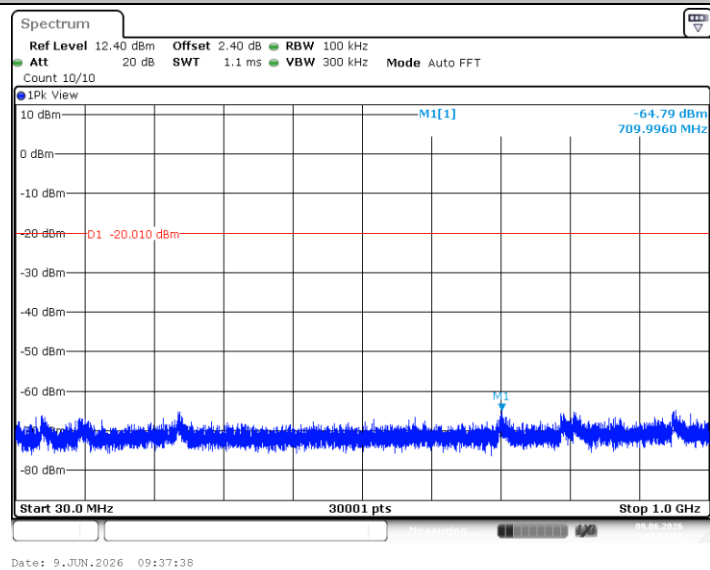




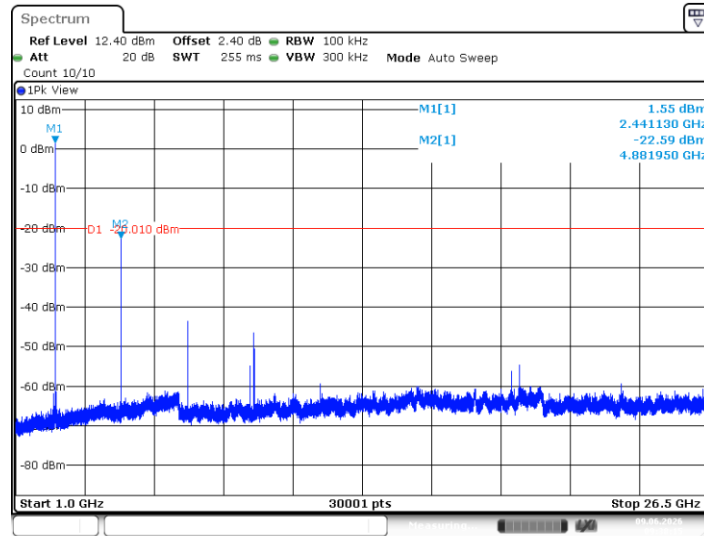
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

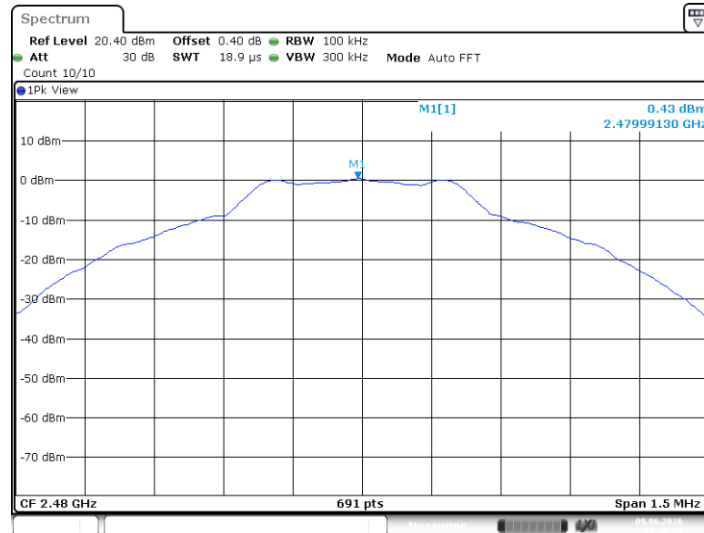


DH5_Ant1_2441_1000~26500



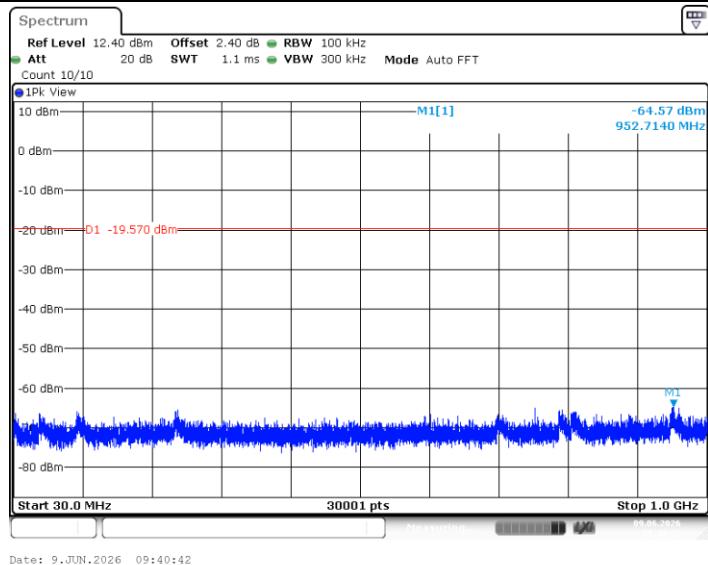
Date: 9.JUN.2026 09:38:16

DH5_Ant1_2480_0~Reference

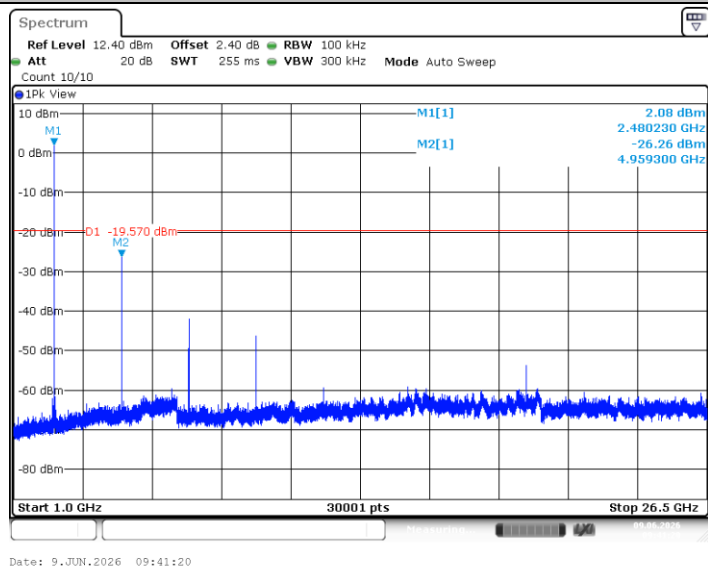


Date: 9.JUN.2026 09:40:28

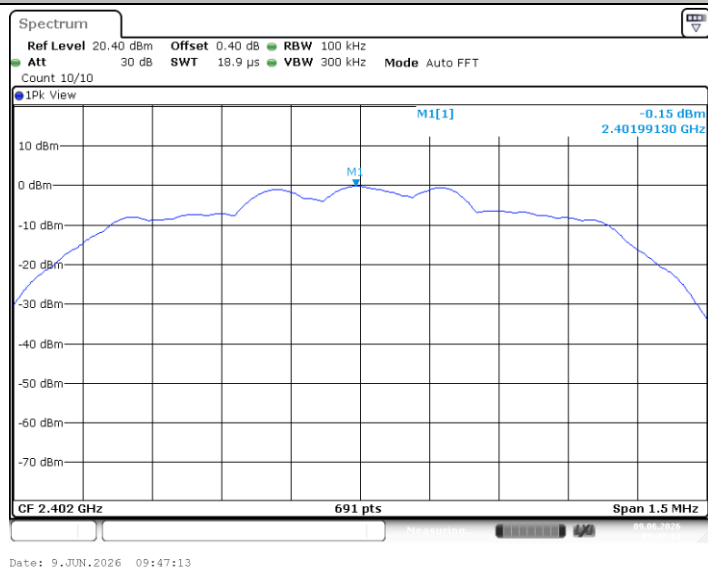
DH5_Ant1_2480_30~1000

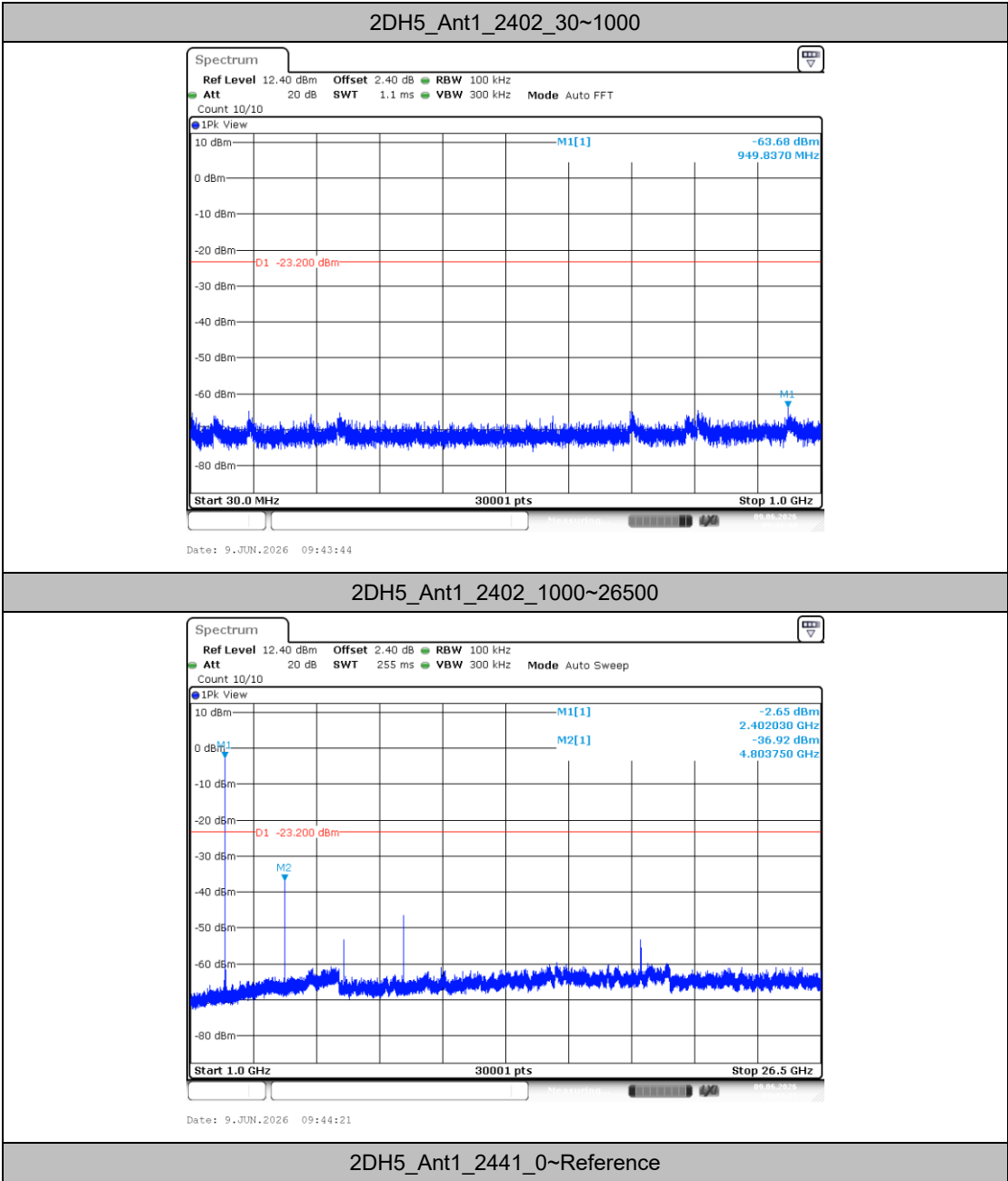


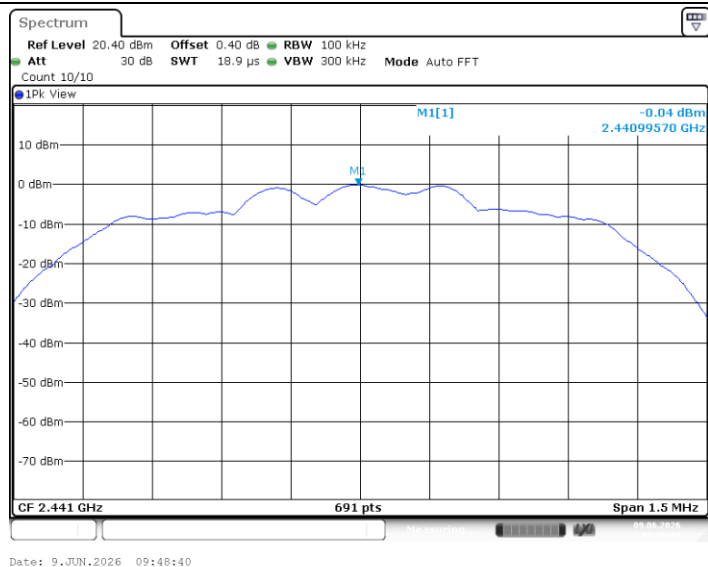
DH5_Ant1_2480_1000~26500



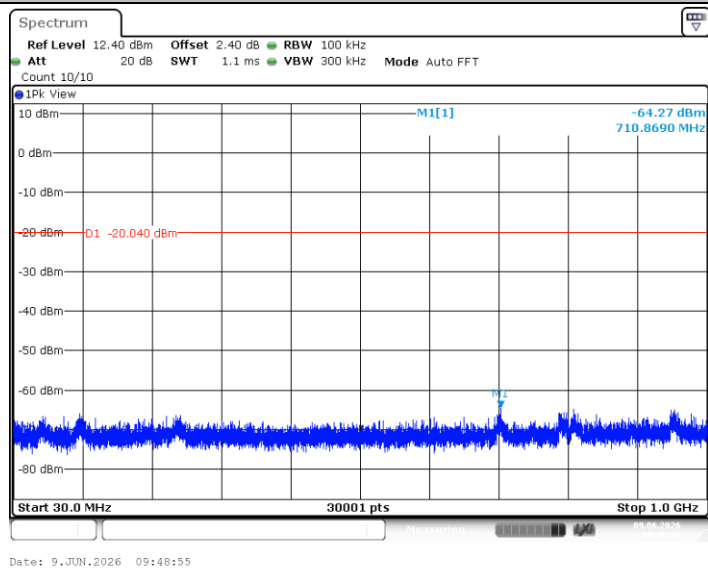
2DH5_Ant1_2402_0~Reference



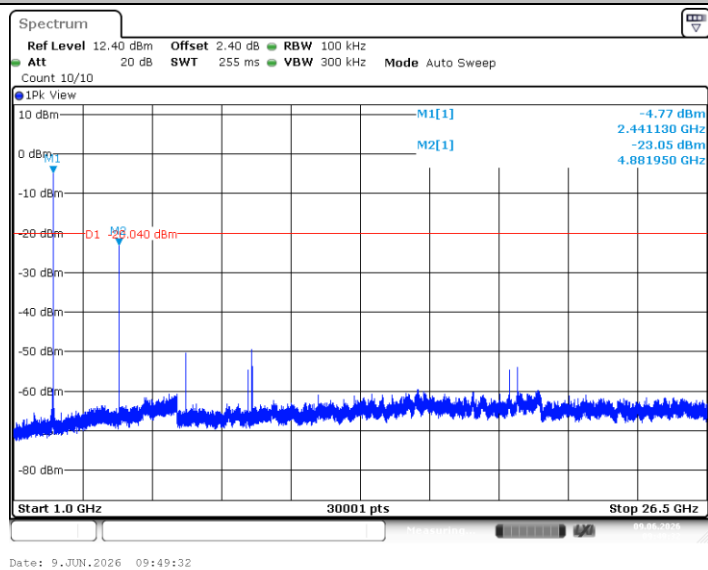




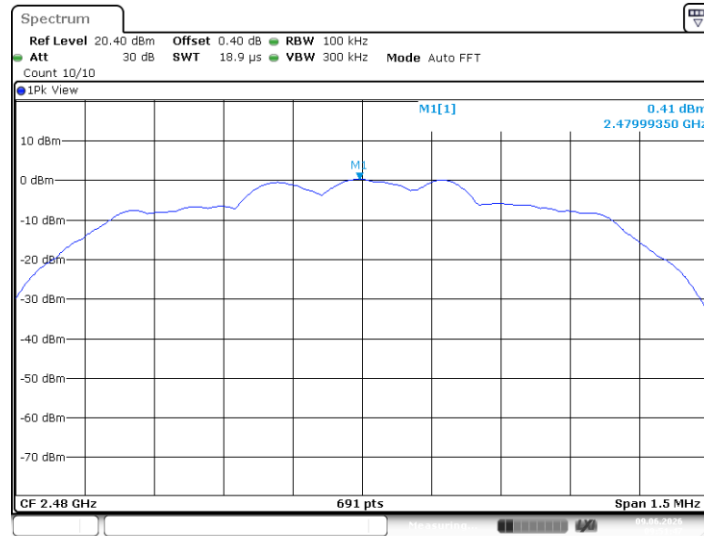
2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

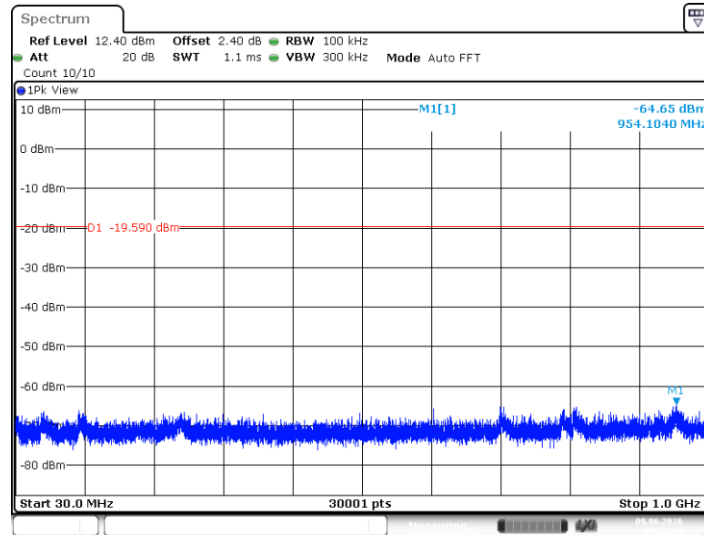


2DH5_Ant1_2480_0~Reference



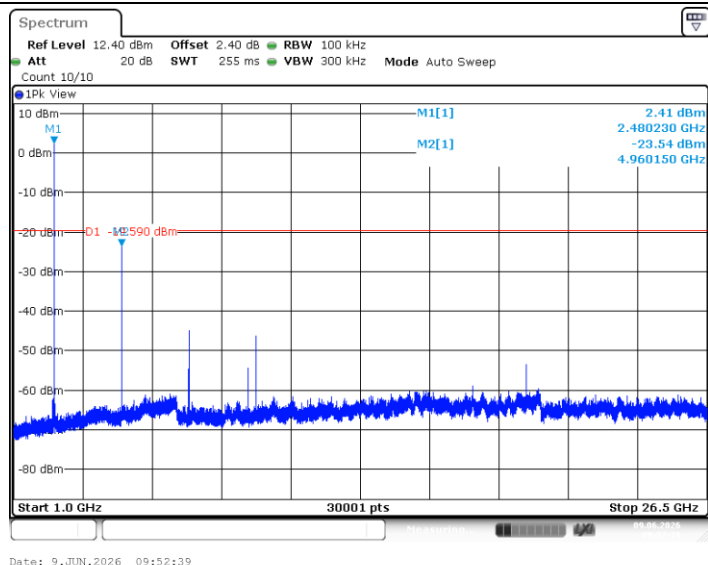
Date: 9.JUN.2026 09:51:47

2DH5_Ant1_2480_30~1000

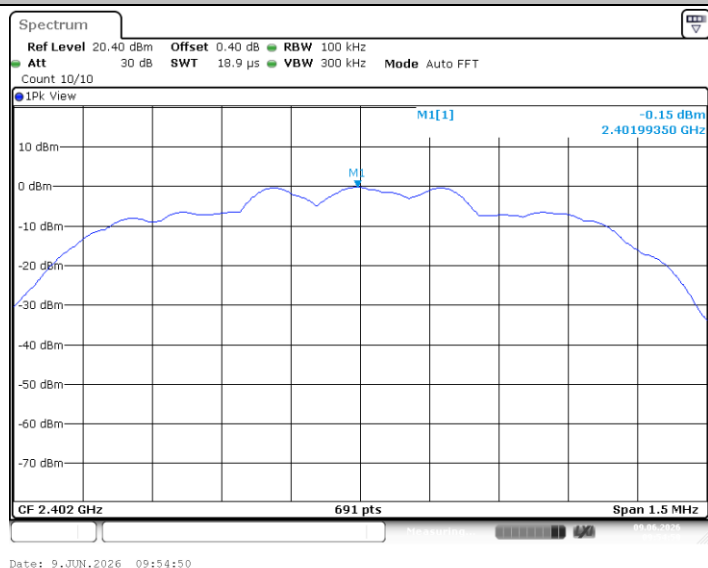


Date: 9.JUN.2026 09:52:01

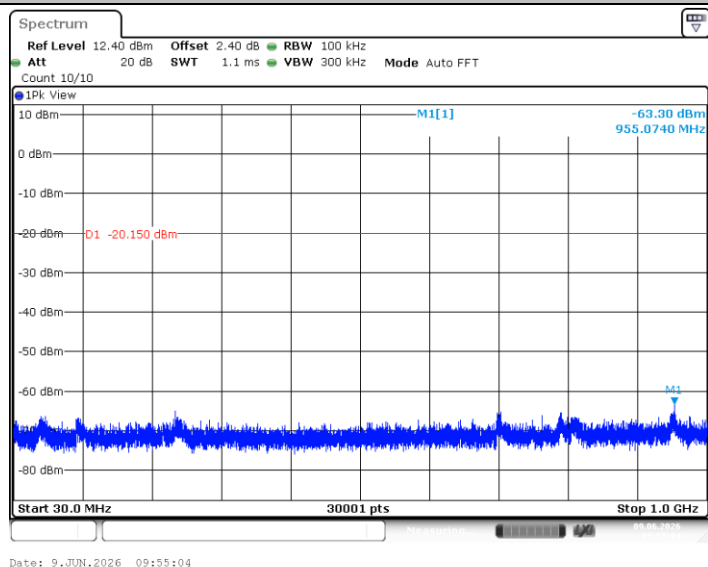
2DH5_Ant1_2480_1000~26500



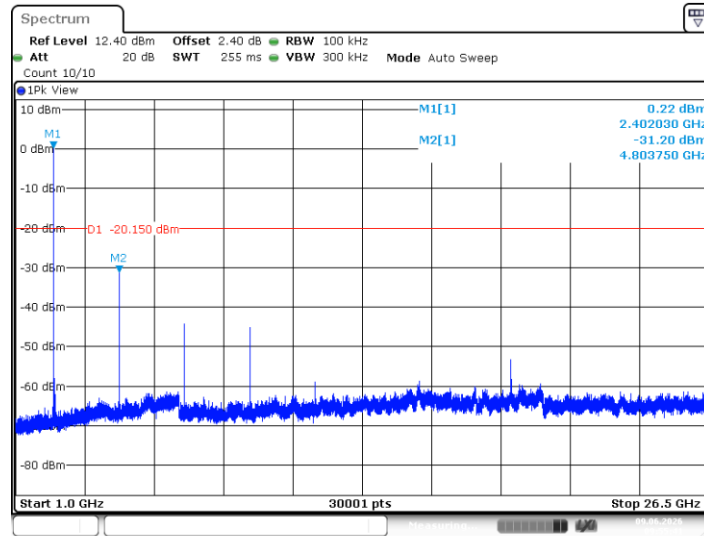
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

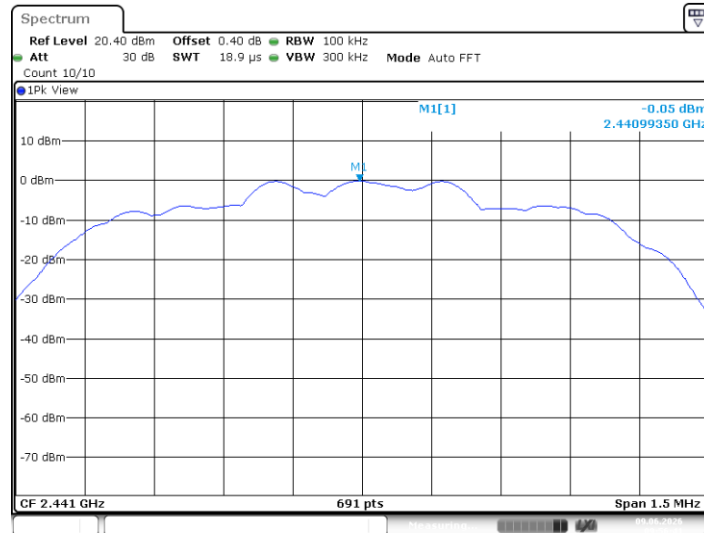


3DH5_Ant1_2402_1000~26500



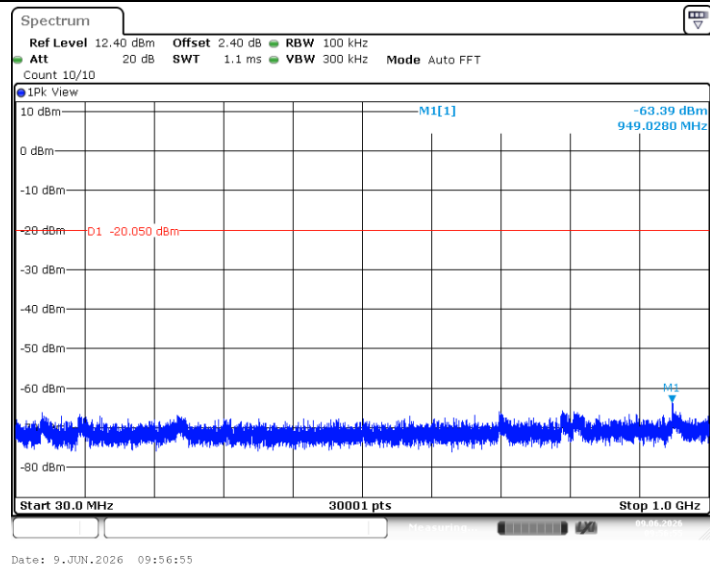
Date: 9.JUN.2026 09:55:41

3DH5_Ant1_2441_0~Reference

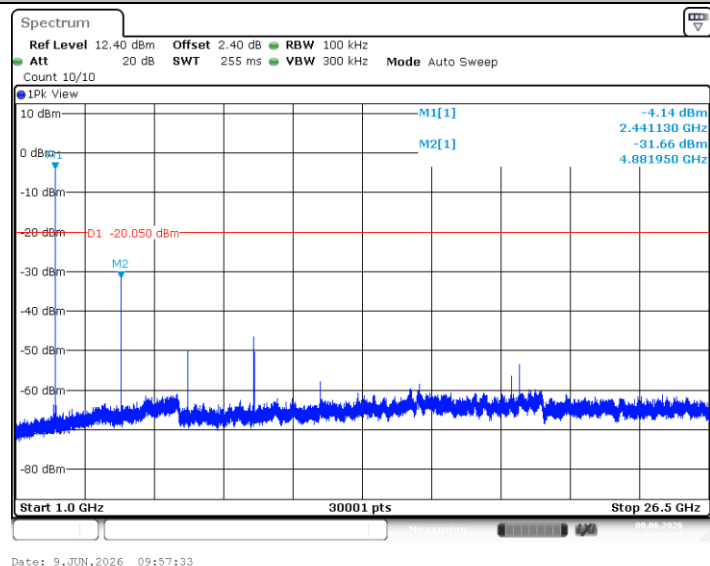


Date: 9.JUN.2026 09:56:41

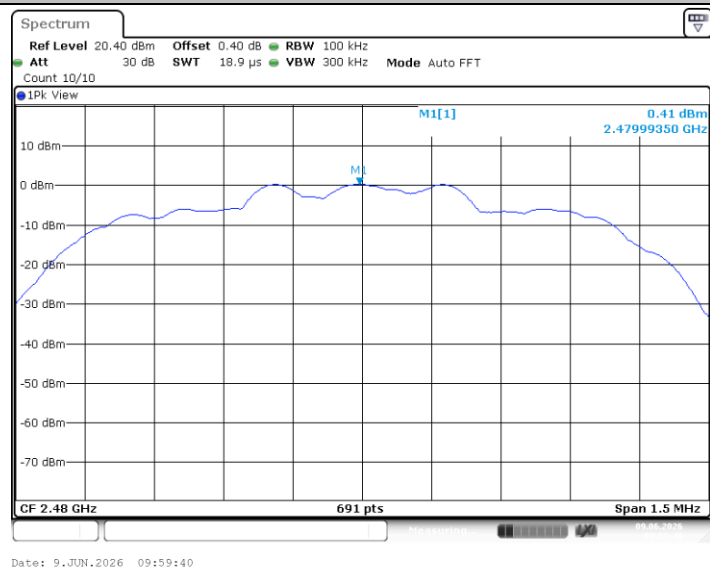
3DH5_Ant1_2441_30~1000



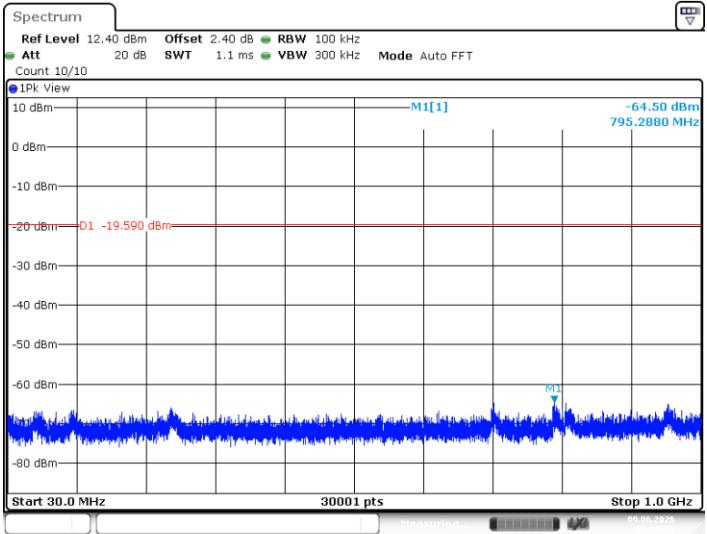
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

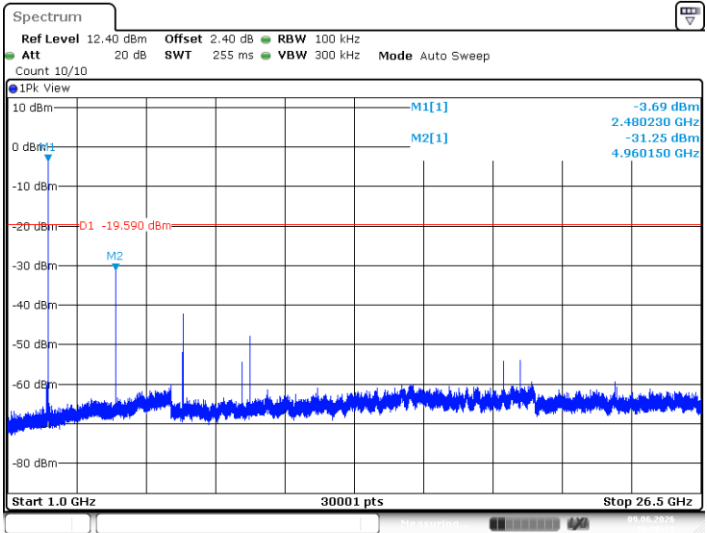


3DH5_Ant1_2480_30~1000



Date: 9.JUN.2026 09:59:54

3DH5_Ant1_2480_1000~26500



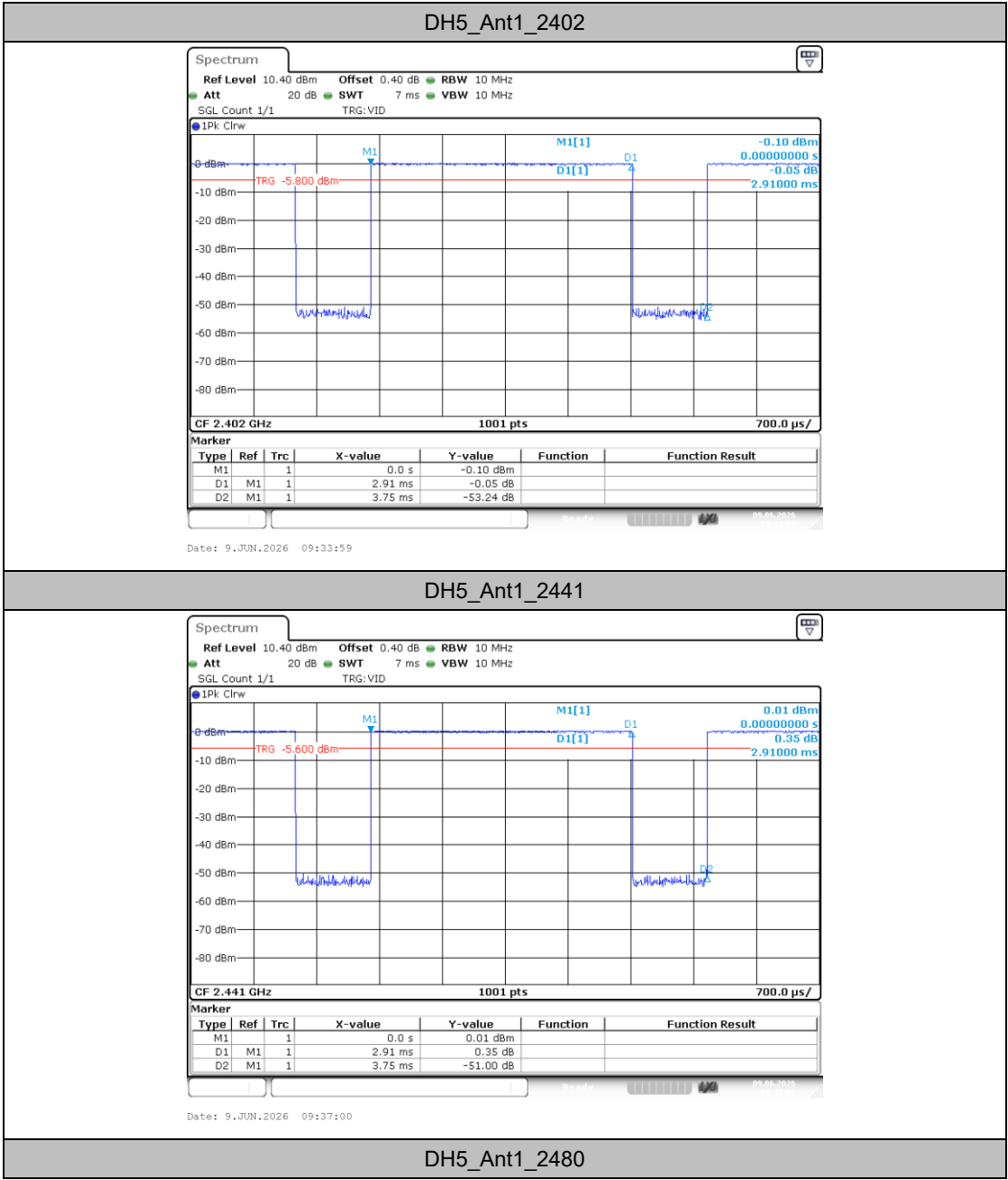
Date: 9.JUN.2026 10:00:31

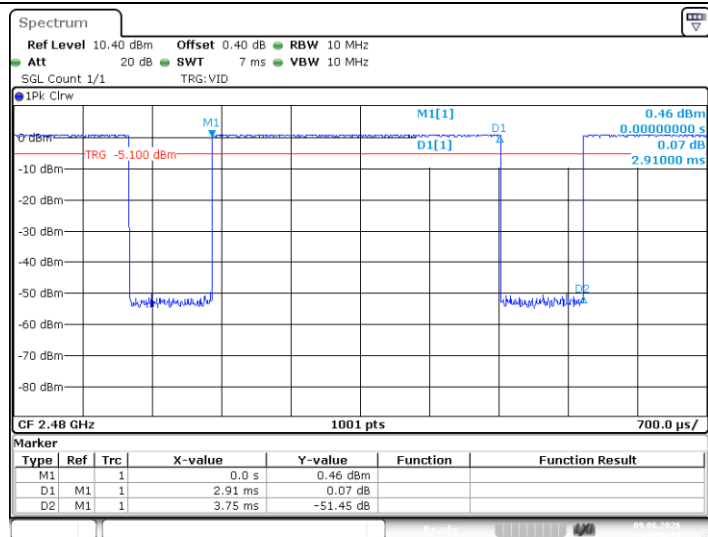
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.76	77.66	1.10	---	---
3DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.92	3.75	77.87	1.09	---	---

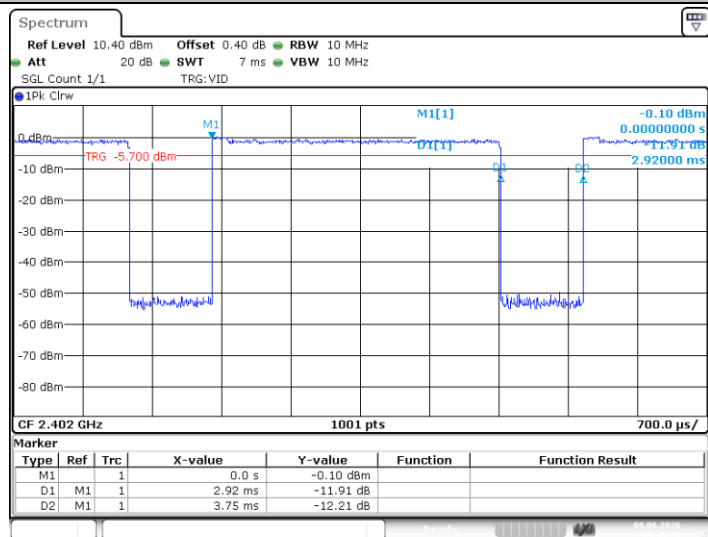
Test Graphs





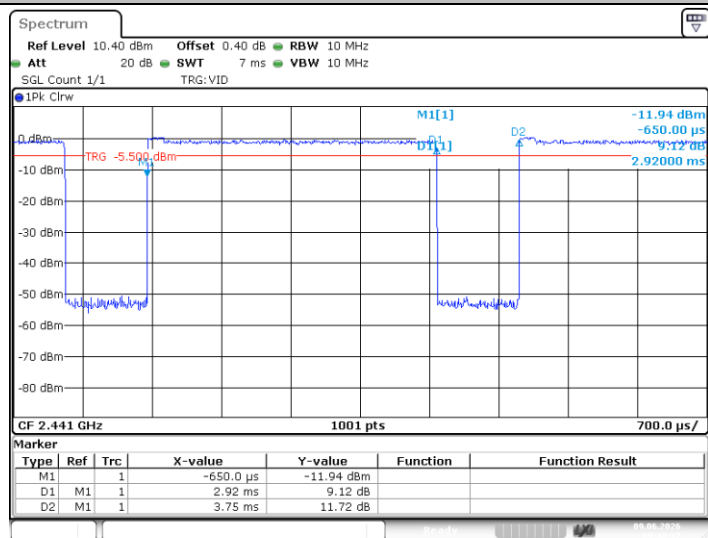
Date: 9.JUN.2026 09:38:53

2DH5_Ant1_2402



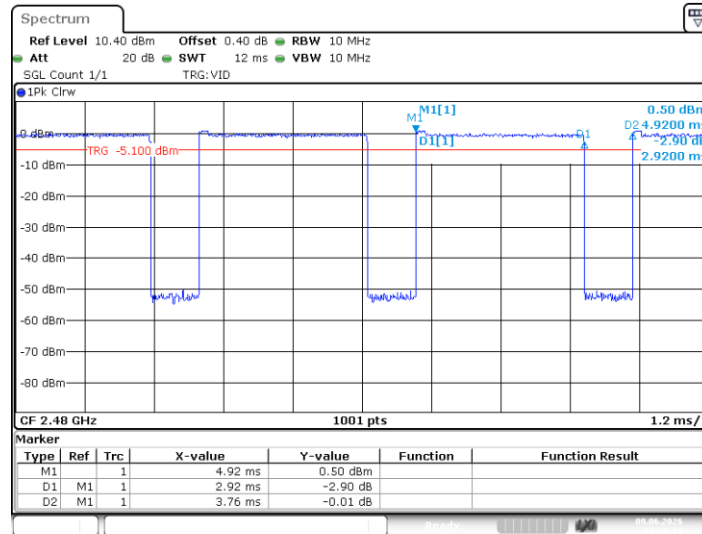
Date: 9.JUN.2026 09:45:37

2DH5_Ant1_2441



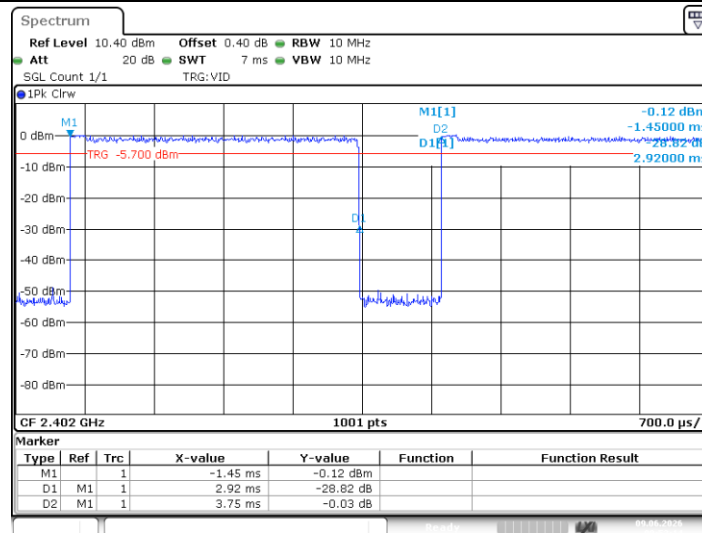
Date: 9.JUN.2026 09:48:17

2DH5_Ant1_2480



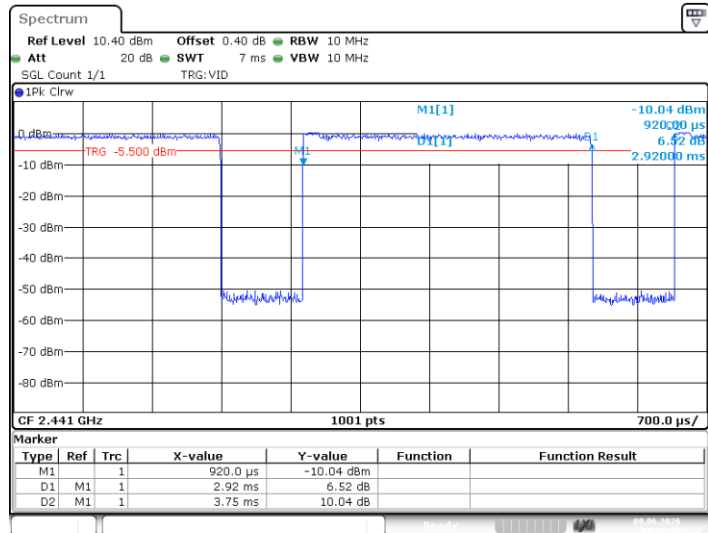
Date: 9.JUN.2026 09:50:12

3DH5_Ant1_2402



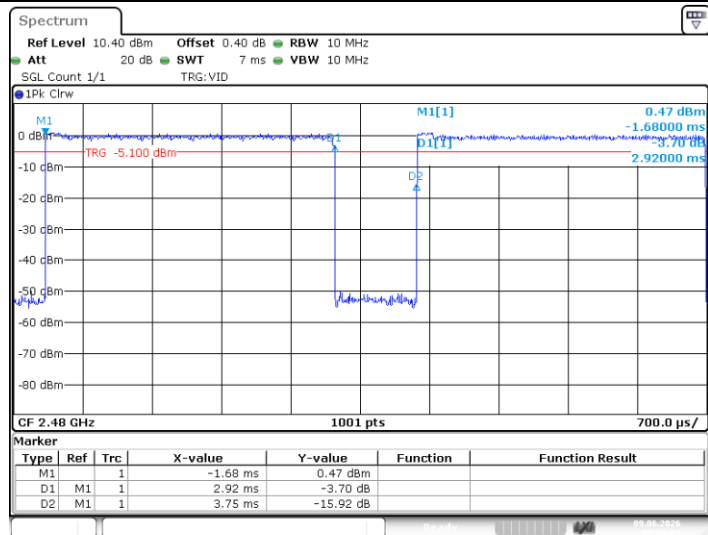
Date: 9.JUN.2026 09:53:14

3DH5_Ant1_2441



Date: 9.JUN.2026 09:56:17

3DH5_Ant1_2480



Date: 9.JUN.2026 09:58:05

Appendix J: Emissions in Restricted Bands

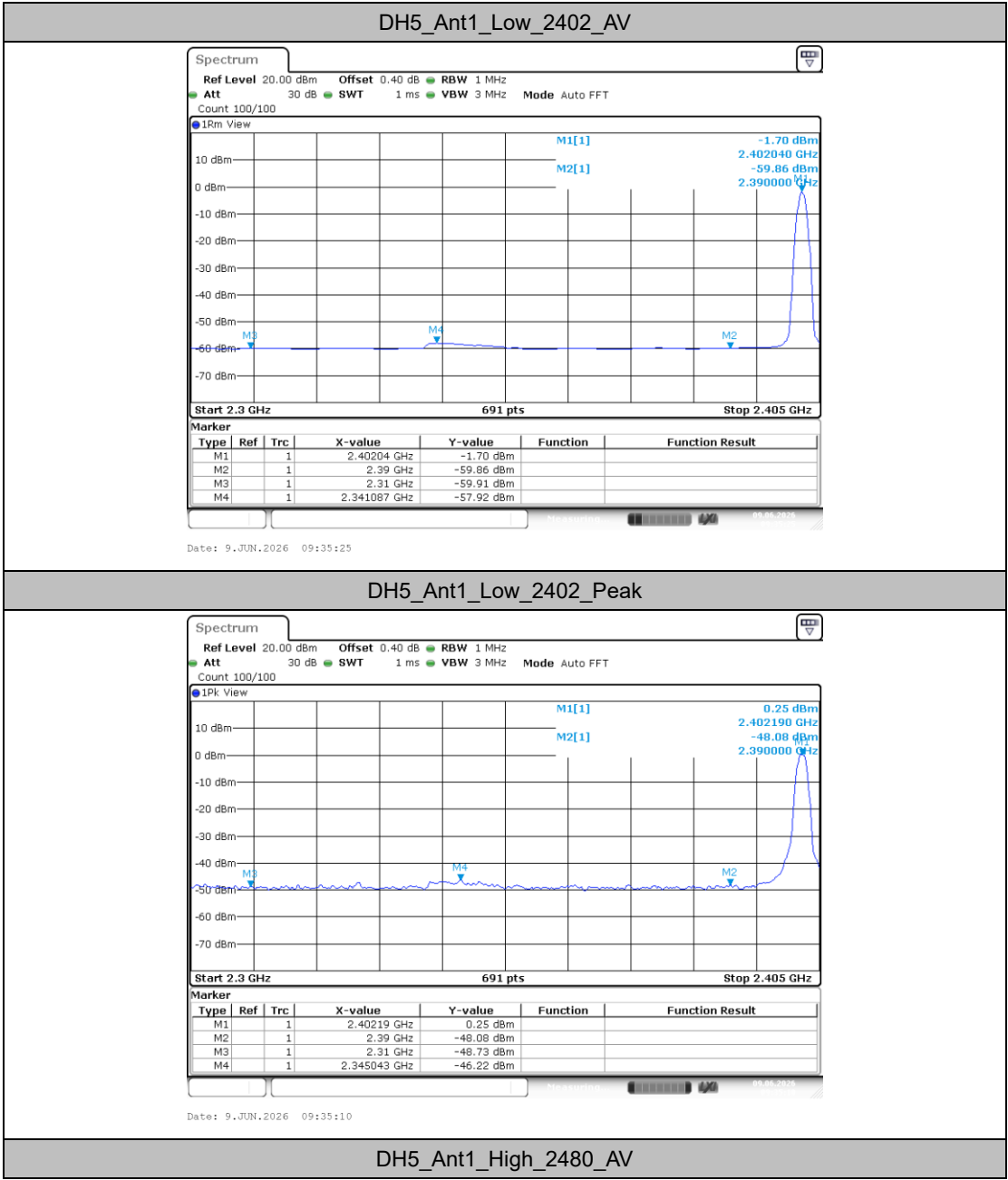
Test Result

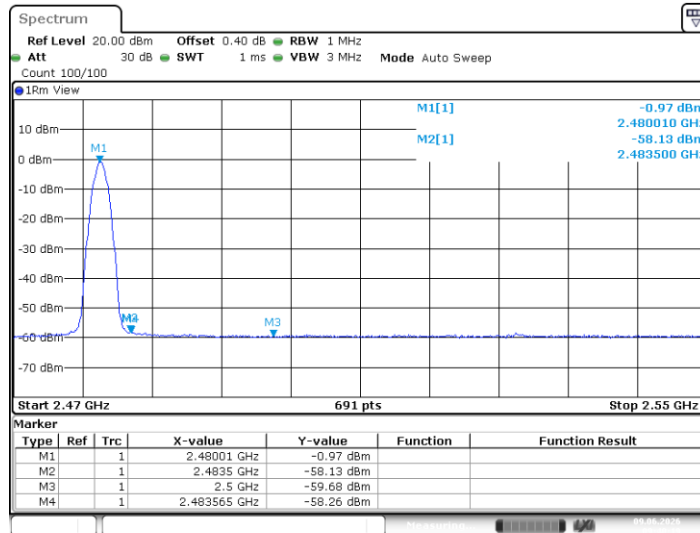
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.91	2.7	1.10	39.09	≤54	PASS
				AV	2341.087	-57.92	2.7	1.10	41.08	≤54	PASS
				AV	2390.000	-59.86	2.7	1.10	39.14	≤54	PASS
				Peak	2310.000	-48.73	2.7	0.00	49.17	≤74	PASS
				Peak	2345.043	-46.22	2.7	0.00	51.68	≤74	PASS
				Peak	2390.000	-48.08	2.7	0.00	49.82	≤74	PASS
		High	2480	AV	2483.500	-58.13	2.7	1.10	40.87	≤54	PASS
				AV	2483.565	-58.26	2.7	1.10	40.74	≤54	PASS
				AV	2500.000	-59.68	2.7	1.10	39.32	≤54	PASS
				Peak	2483.500	-43.3	2.7	0.00	54.6	≤74	PASS
				Peak	2483.681	-43.21	2.7	0.00	54.69	≤74	PASS
				Peak	2500.000	-48.47	2.7	0.00	49.43	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.91	2.7	1.09	39.08	≤54	PASS
				AV	2340.935	-57.98	2.7	1.09	41.01	≤54	PASS
				AV	2390.000	-59.8	2.7	1.09	39.19	≤54	PASS
				Peak	2310.000	-49.44	2.7	0.00	48.46	≤74	PASS
				Peak	2346.413	-46.72	2.7	0.00	51.18	≤74	PASS
				Peak	2390.000	-49.18	2.7	0.00	48.72	≤74	PASS
		High	2480	AV	2483.500	-58.69	2.7	1.10	40.31	≤54	PASS
				AV	2483.797	-58.7	2.7	1.10	40.3	≤54	PASS
				AV	2500.000	-59.76	2.7	1.10	39.24	≤54	PASS
				Peak	2483.500	-45.6	2.7	0.00	52.3	≤74	PASS
				Peak	2483.913	-45.29	2.7	0.00	52.61	≤74	PASS
				Peak	2500.000	-49.64	2.7	0.00	48.26	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.95	2.7	1.09	39.04	≤54	PASS
				AV	2340.022	-57.96	2.7	1.09	41.03	≤54	PASS
				AV	2390.000	-59.85	2.7	1.09	39.14	≤54	PASS
				Peak	2310.000	-49.24	2.7	0.00	48.66	≤74	PASS
				Peak	2341.543	-46.35	2.7	0.00	51.55	≤74	PASS
				Peak	2390.000	-49.28	2.7	0.00	48.62	≤74	PASS
		High	2480	AV	2483.500	-58.71	2.7	1.09	40.28	≤54	PASS
				AV	2483.565	-58.74	2.7	1.09	40.25	≤54	PASS
				AV	2500.000	-59.74	2.7	1.09	39.25	≤54	PASS
				Peak	2483.500	-46.08	2.7	0.00	51.82	≤74	PASS
				Peak	2483.681	-45.23	2.7	0.00	52.67	≤74	PASS
				Peak	2500.000	-49.16	2.7	0.00	48.74	≤74	PASS

Note:

1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

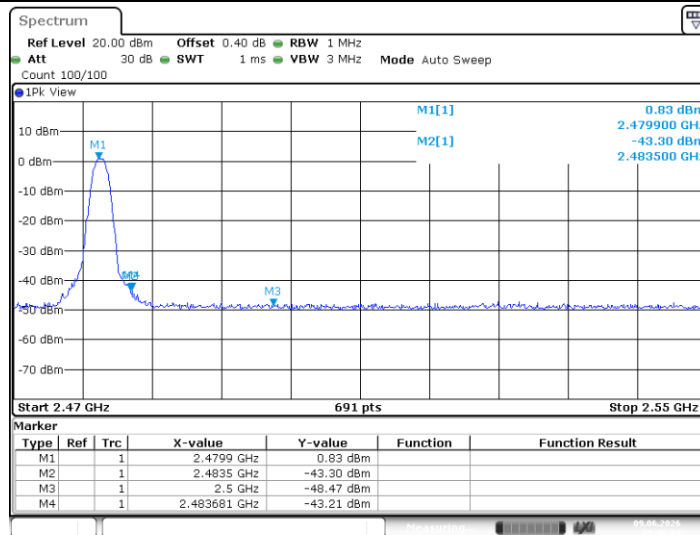
Test Graphs





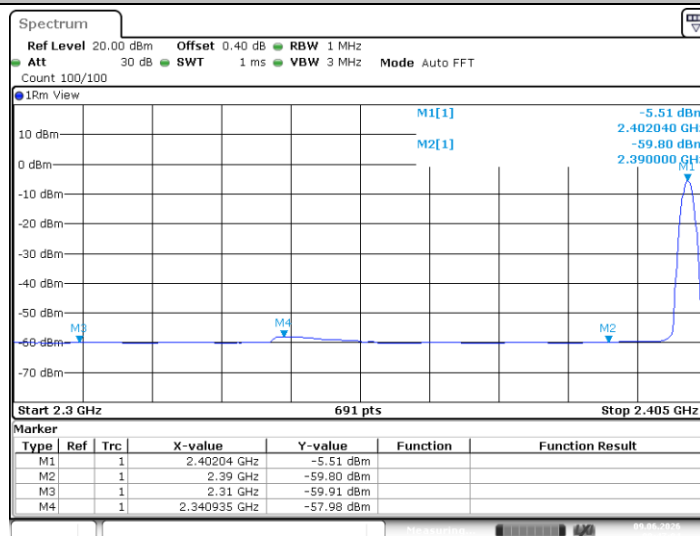
Date: 9.JUN.2026 09:40:19

DH5_Ant1_High_2480_Peak



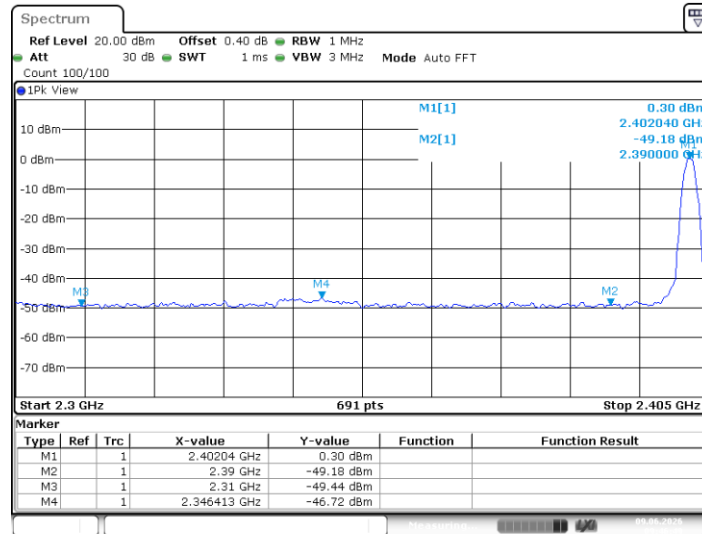
Date: 9.JUN.2026 09:40:04

2DH5_Ant1_Low_2402_AV



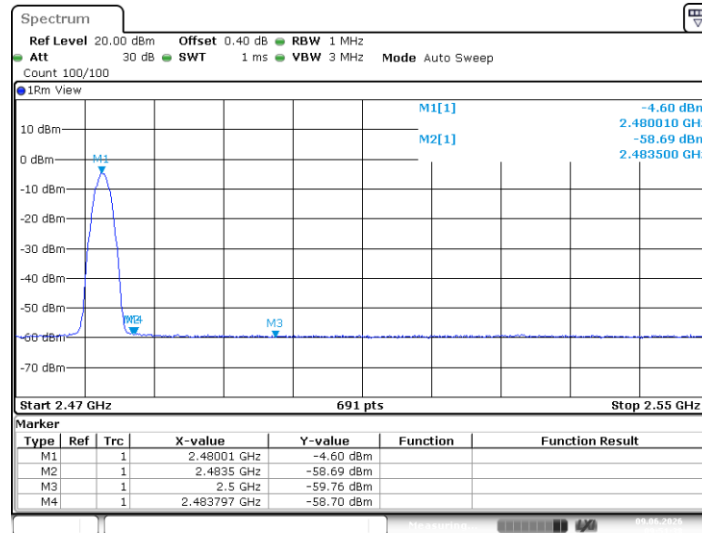
Date: 9.JUN.2026 09:47:04

2DH5_Ant1_Low_2402_Peak



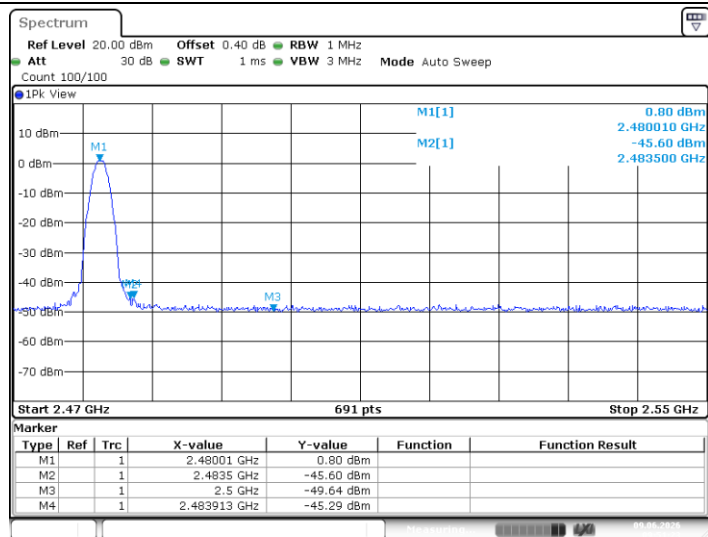
Date: 9.JUN.2026 09:46:49

2DH5_Ant1_High_2480_AV



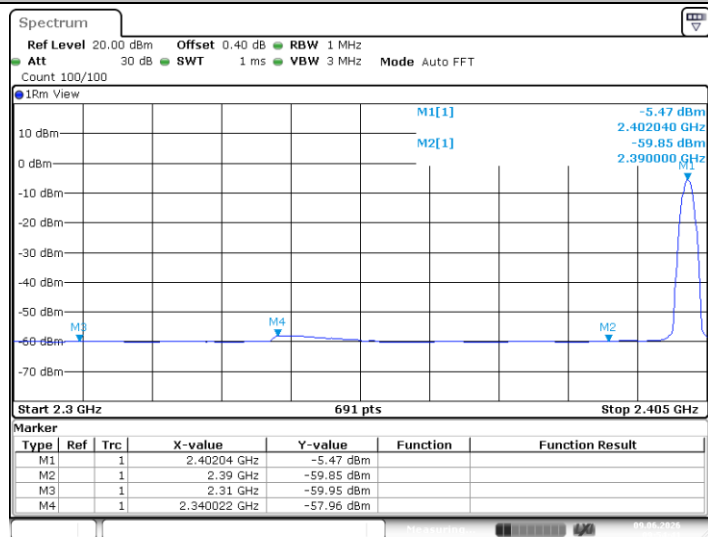
Date: 9.JUN.2026 09:51:38

2DH5_Ant1_High_2480_Peak



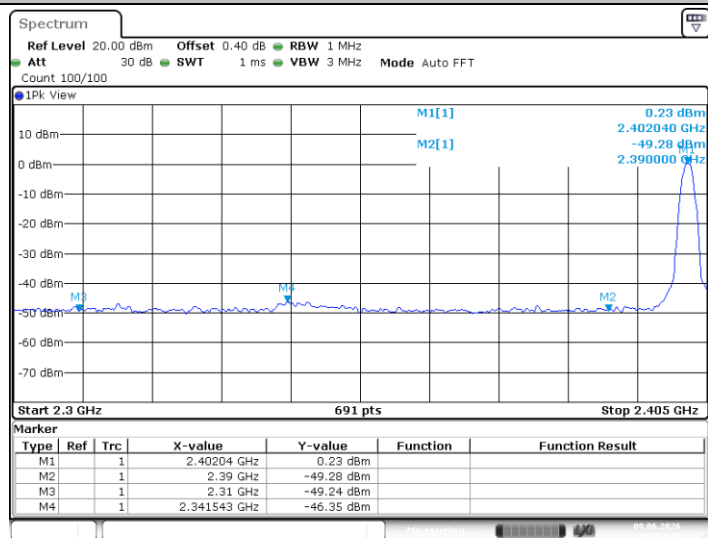
Date: 9.JUN.2026 09:51:23

3DH5_Ant1_Low_2402_AV



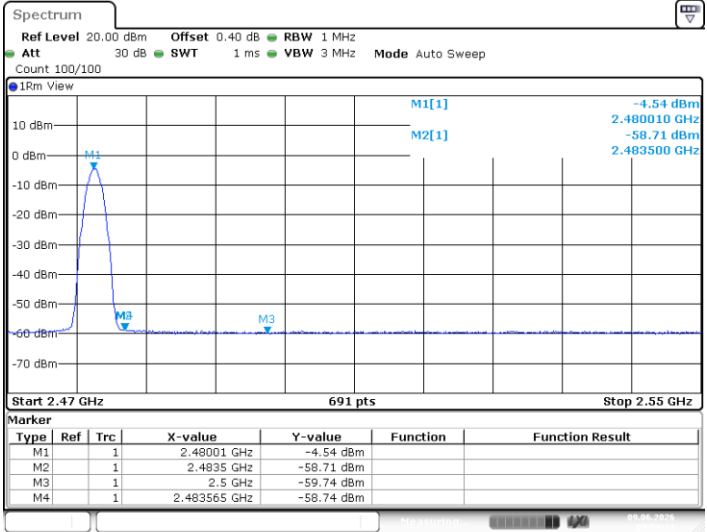
Date: 9.JUN.2026 09:54:40

3DH5_Ant1_Low_2402_Peak



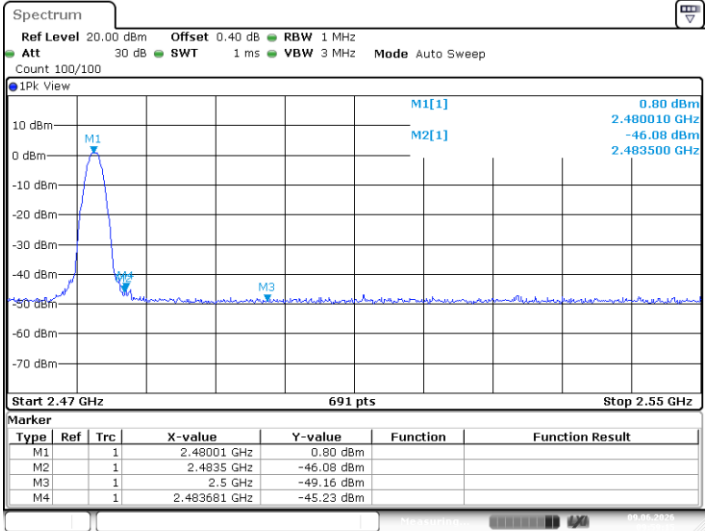
Date: 9.JUN.2026 09:54:25

3DH5_Ant1_High_2480_AV



Date: 9.JUN.2026 09:59:30

3DH5_Ant1_High_2480_Peak



Date: 9.JUN.2026 09:59:15