

FCC Appendix RF Test Data for BT

FCC ID : 2AOMX-PBX-2015

Company : QFX Inc.

EUT : Speaker

Model Number : PBX-2015

Report No. : CTA26060300101

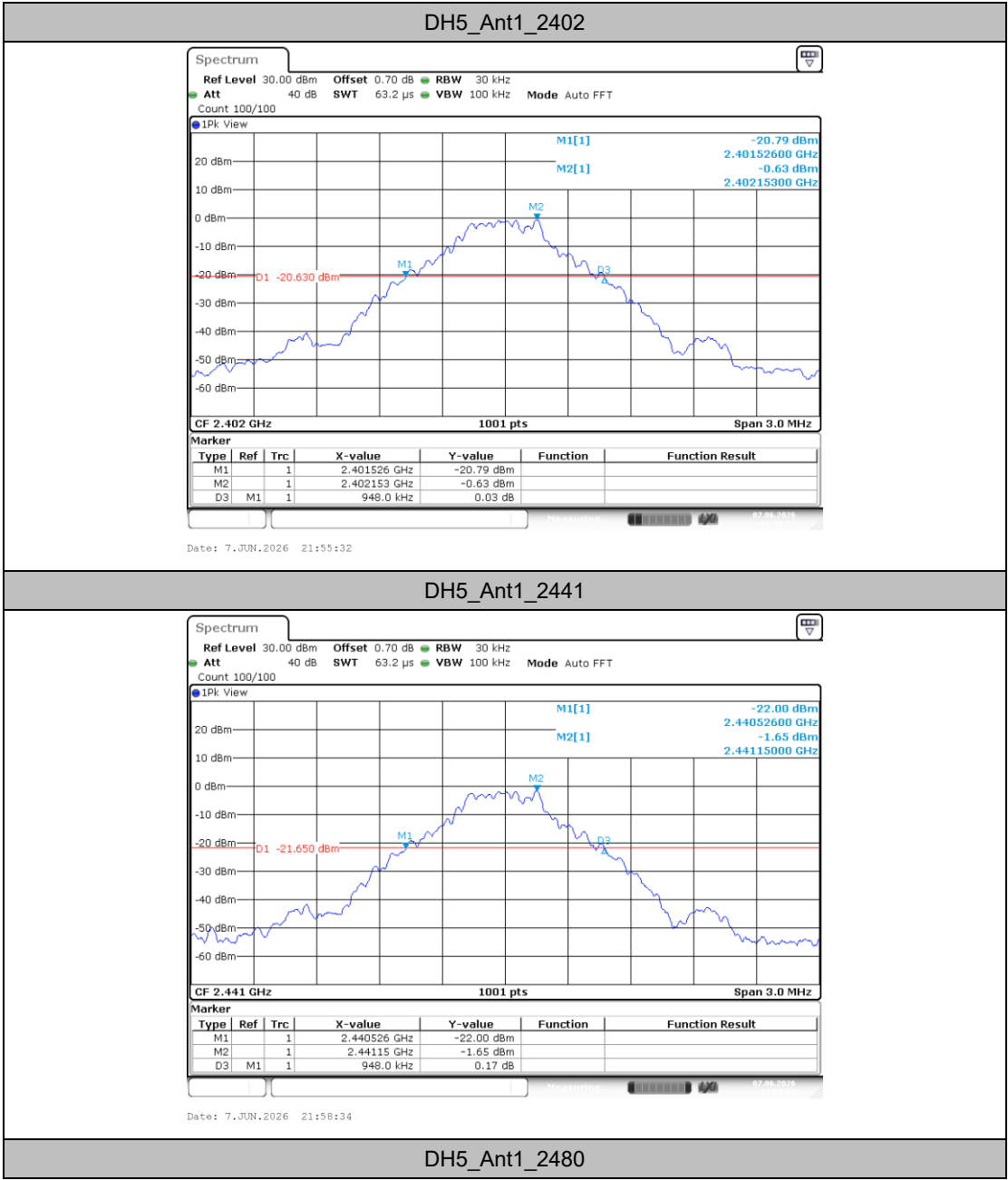
Reviewed By : Eric Wang

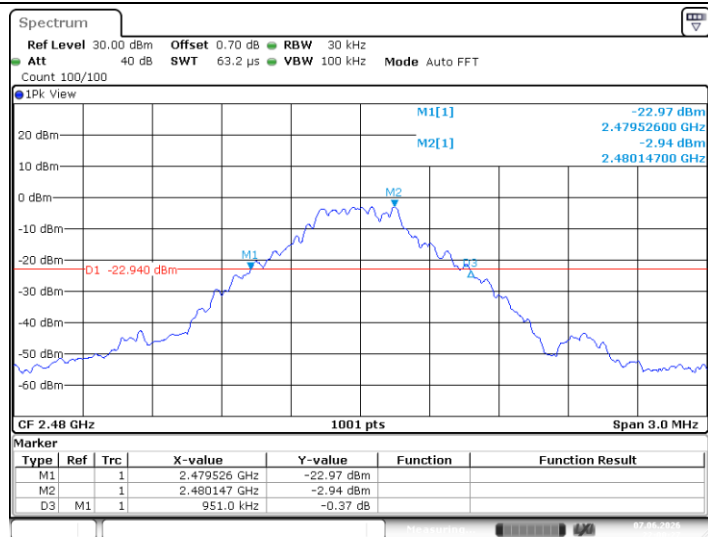
Appendix A: 20dB Emission Bandwidth

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	2441.47	---	---
		2480	0.95	2479.53	2480.48	---	---
2DH5	Ant1	2402	1.32	2401.33	2402.66	---	---
		2441	1.32	2440.33	2441.65	---	---
		2480	1.32	2479.33	2480.65	---	---
3DH5	Ant1	2402	1.29	2401.35	2402.64	---	---
		2441	1.29	2440.35	2441.64	---	---
		2480	1.29	2479.35	2480.64	---	---

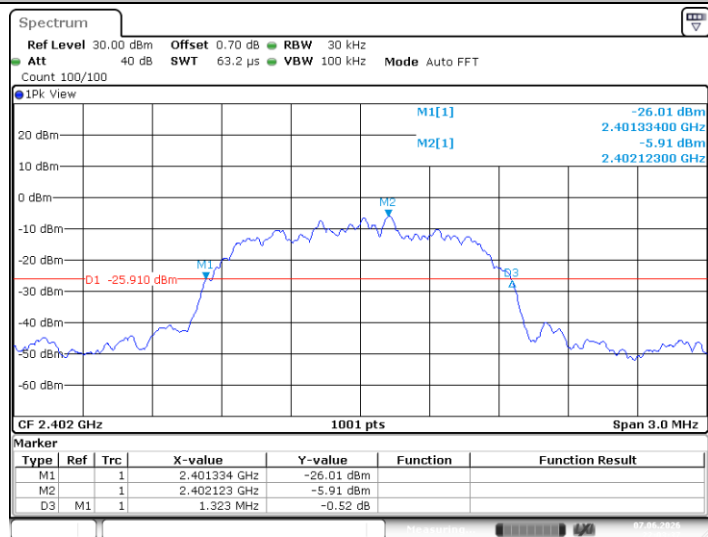
Test Graphs





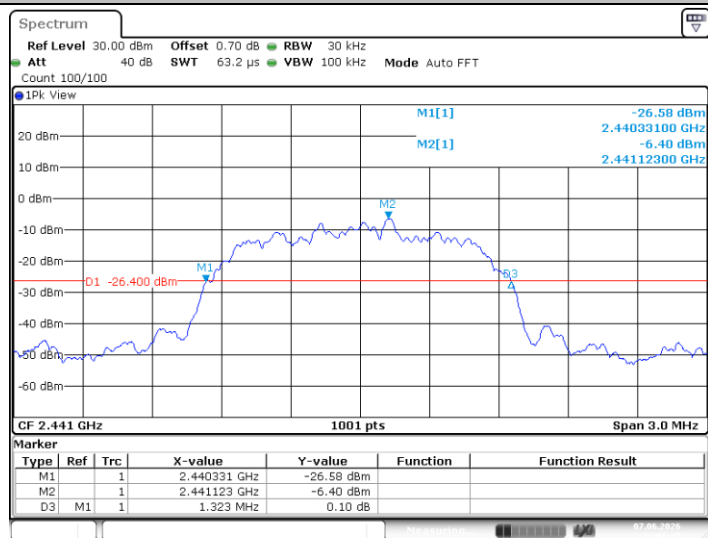
Date: 7.JUN.2026 22:00:28

2DH5_Ant1_2402



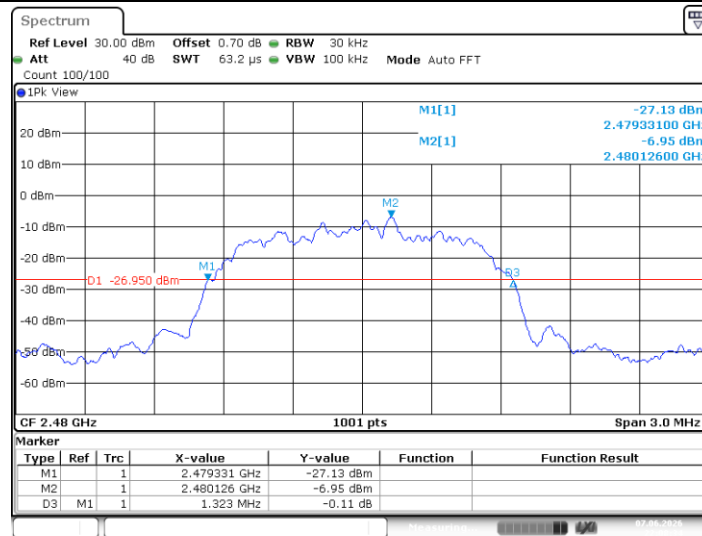
Date: 7.JUN.2026 22:03:37

2DH5_Ant1_2441



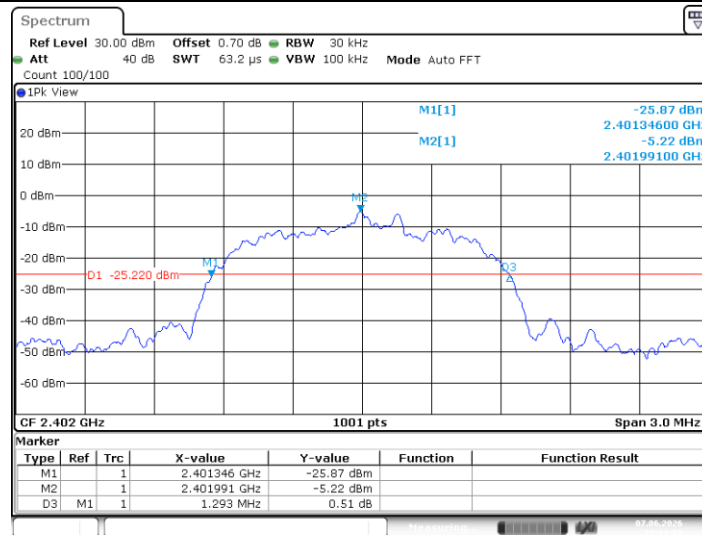
Date: 7.JUN.2026 22:06:38

2DH5_Ant1_2480



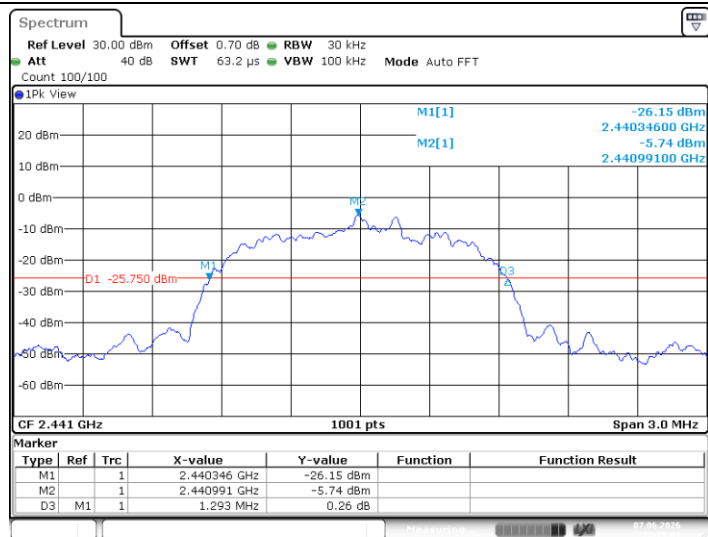
Date: 7.JUN.2026 22:08:35

3DH5_Ant1_2402



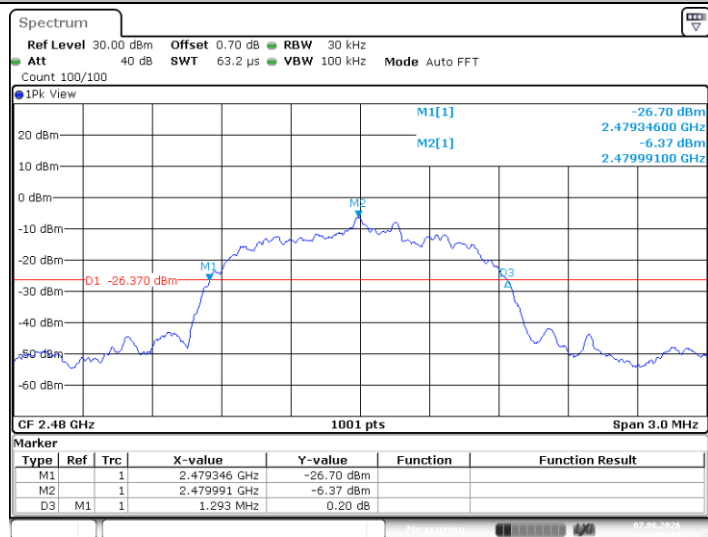
Date: 7.JUN.2026 22:11:59

3DH5_Ant1_2441



Date: 7.JUN.2026 22:15:01

3DH5_Ant1_2480



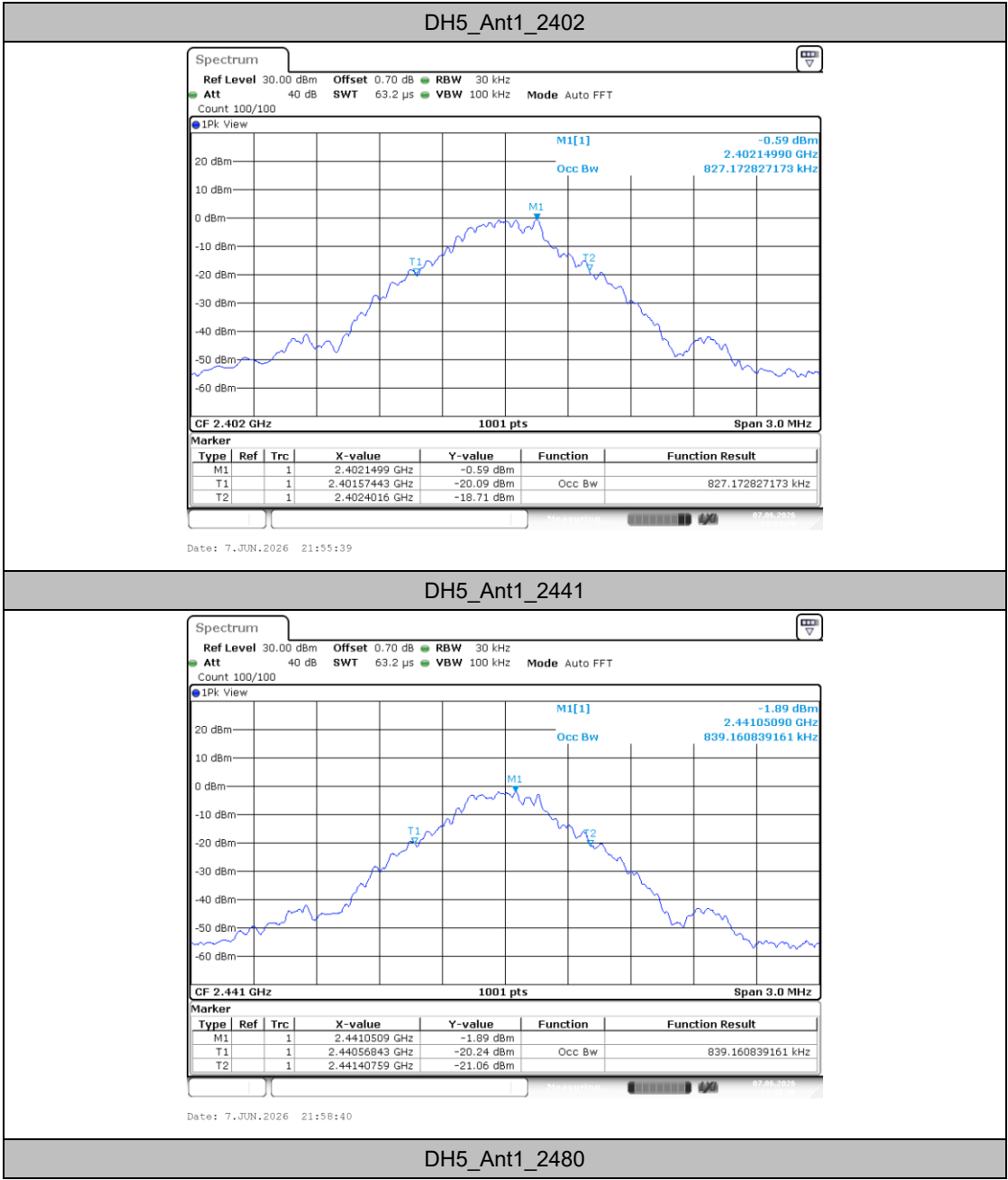
Date: 7.JUN.2026 22:16:54

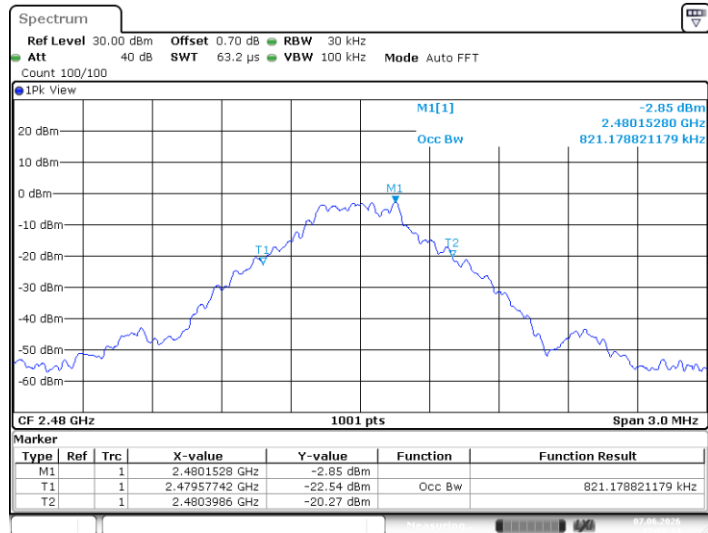
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82717	2401.5744	2402.4016	---	---
		2441	0.83916	2440.5684	2441.4076	---	---
		2480	0.82118	2479.5774	2480.3986	---	---
2DH5	Ant1	2402	1.1838	2401.4006	2402.5844	---	---
		2441	1.1748	2440.4036	2441.5784	---	---
		2480	1.1688	2479.4066	2480.5754	---	---
3DH5	Ant1	2402	1.1688	2401.4096	2402.5784	---	---
		2441	1.1688	2440.4096	2441.5784	---	---
		2480	1.1718	2479.4066	2480.5784	---	---

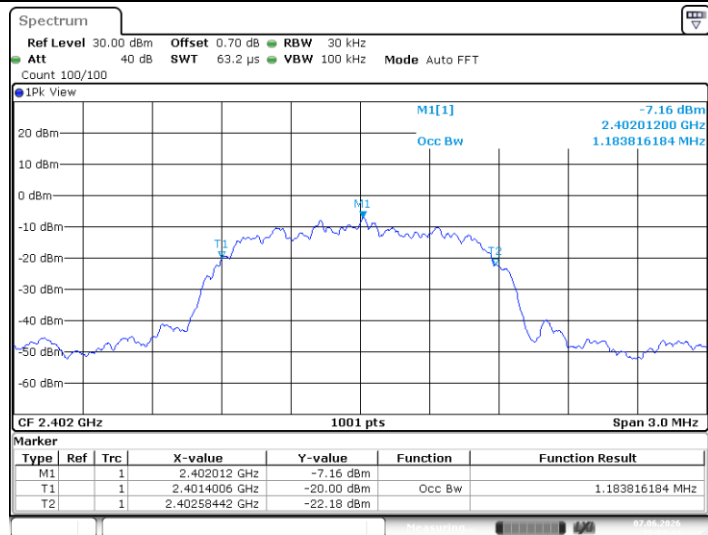
Test Graphs





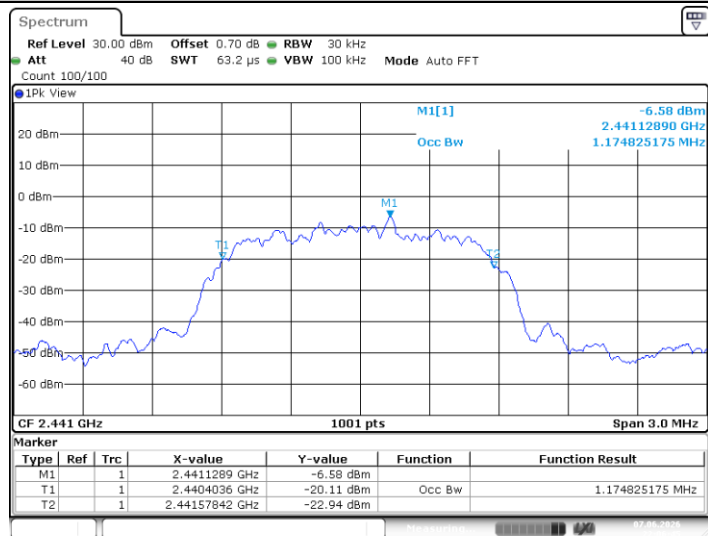
Date: 7.JUN.2026 22:00:35

2DH5_Ant1_2402



Date: 7.JUN.2026 22:03:44

2DH5_Ant1_2441



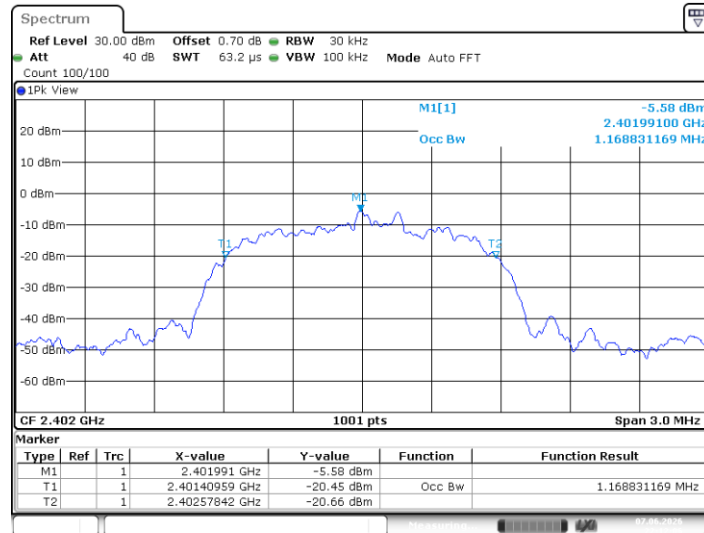
Date: 7.JUN.2026 22:06:45

2DH5_Ant1_2480



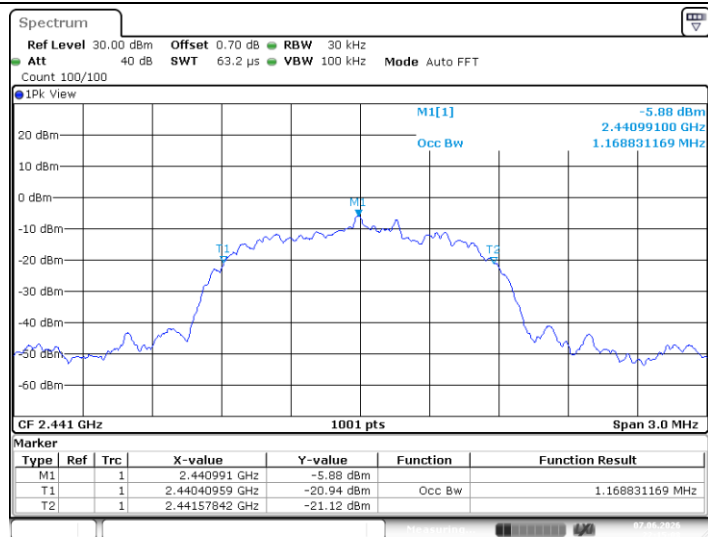
Date: 7.JUN.2026 22:08:41

3DH5_Ant1_2402



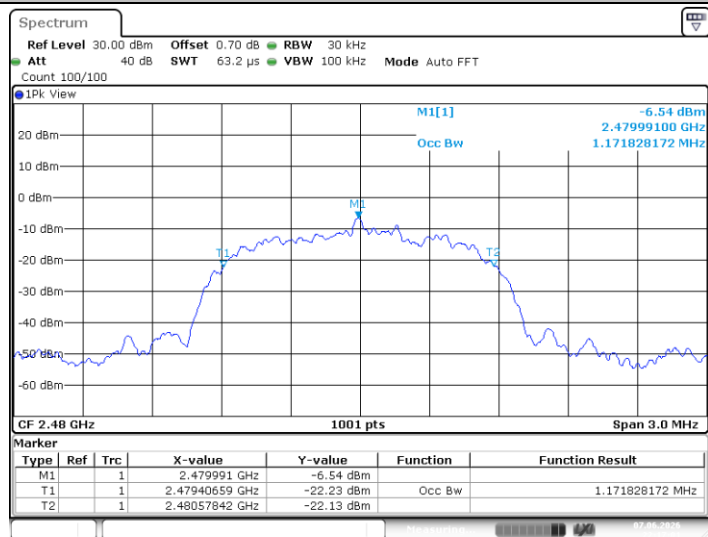
Date: 7.JUN.2026 22:12:06

3DH5_Ant1_2441



Date: 7.JUN.2026 22:15:08

3DH5_Ant1_2480



Date: 7.JUN.2026 22:17:01

Appendix C: Maximum conducted output power

Test Result Peak

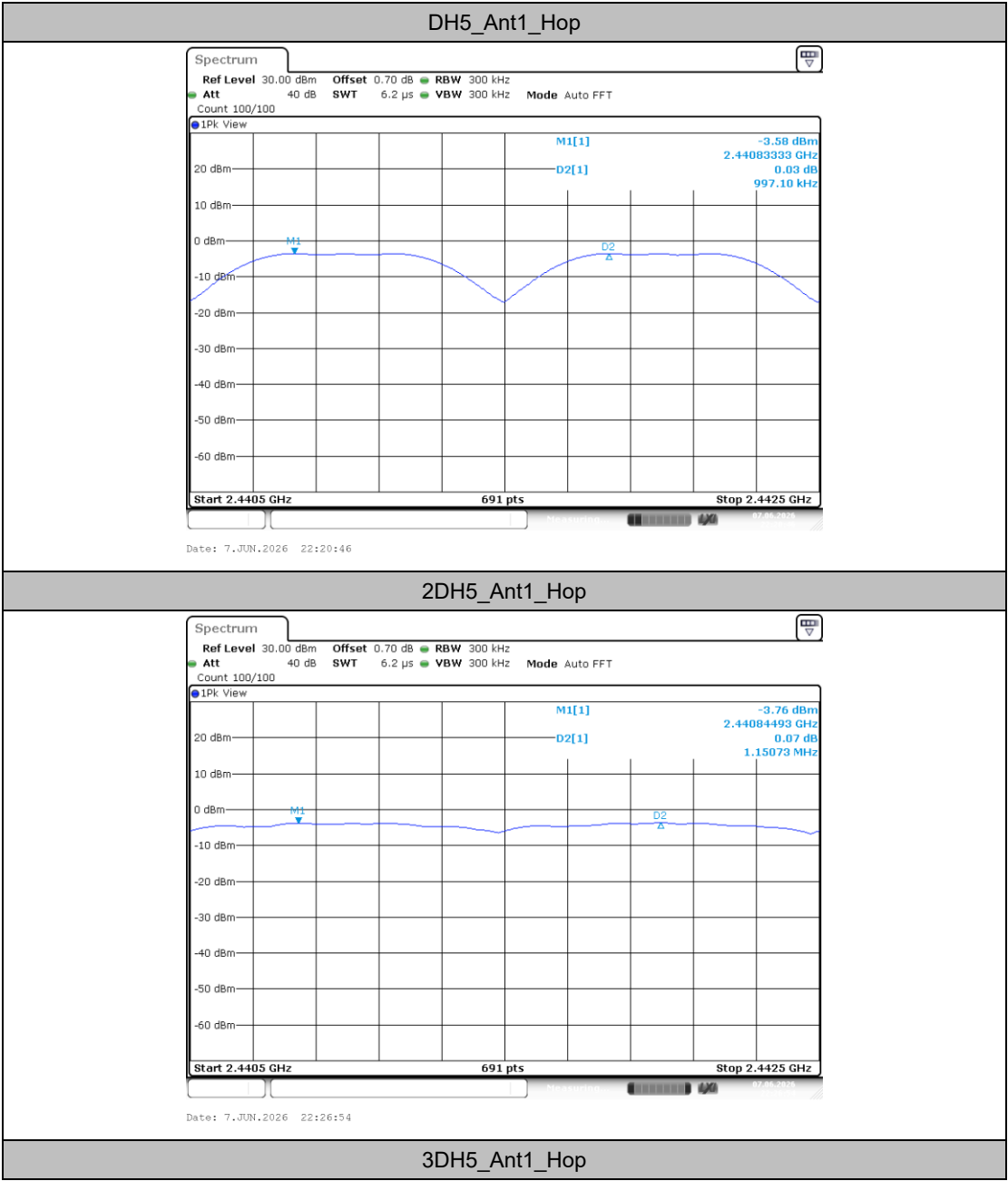
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.19	≤20.97	PASS
		2441	1.18	≤20.97	PASS
		2480	0.08	≤20.97	PASS
2DH5	Ant1	2402	-0.49	≤20.97	PASS
		2441	-0.91	≤20.97	PASS
		2480	-1.83	≤20.97	PASS
3DH5	Ant1	2402	0.19	≤20.97	PASS
		2441	-0.82	≤20.97	PASS
		2480	-1.43	≤20.97	PASS

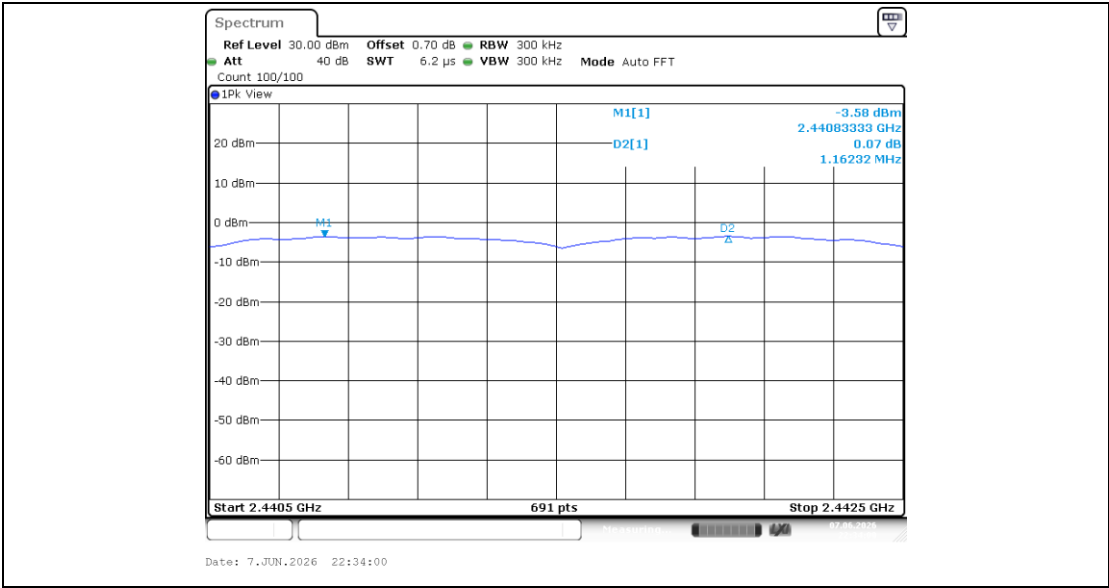
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.997	≥ 0.950	PASS
2DH5	Ant1	Hop	1.151	≥ 0.880	PASS
3DH5	Ant1	Hop	1.162	≥ 0.860	PASS

Test Graphs



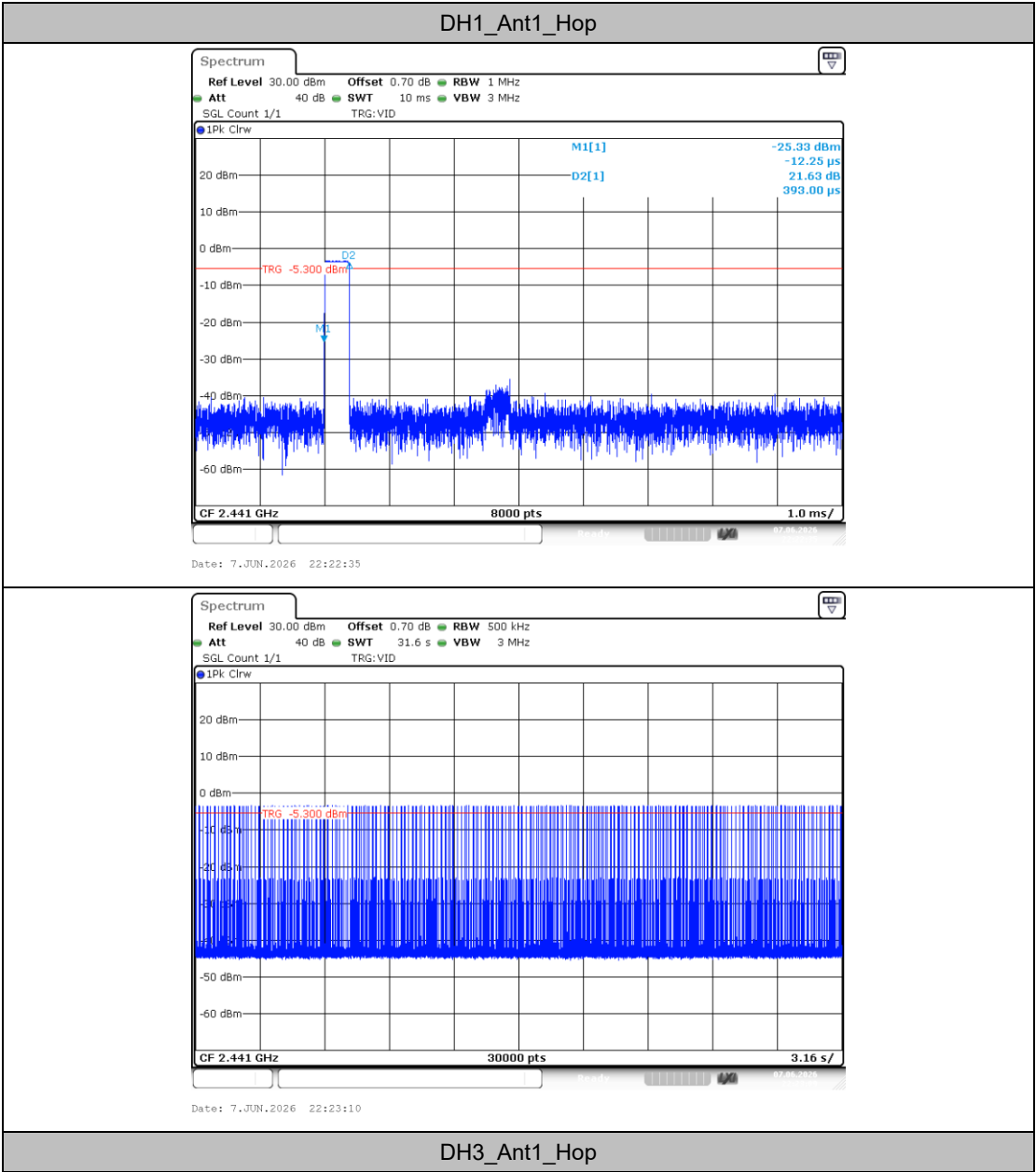


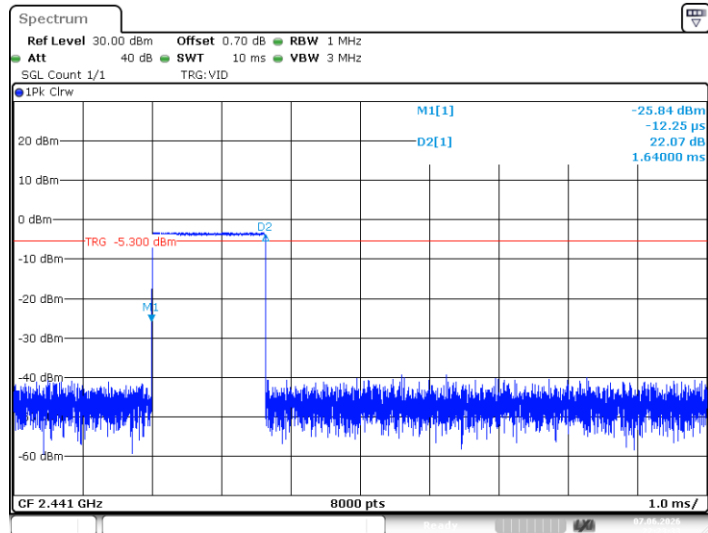
Appendix E: Time of occupancy

Test Result

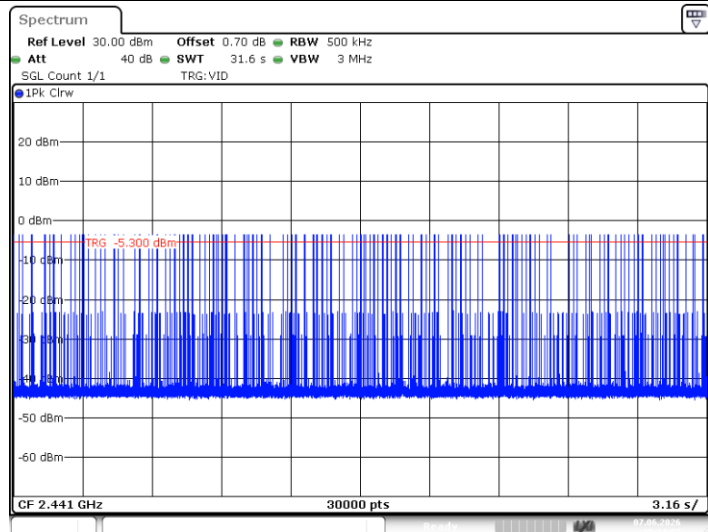
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.393	321	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.640	171	0.28	≤0.4	PASS
DH5	Ant1	Hop	2.882	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.403	319	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.646	145	0.239	≤0.4	PASS
2DH5	Ant1	Hop	2.885	100	0.289	≤0.4	PASS
3DH1	Ant1	Hop	0.404	321	0.13	≤0.4	PASS
3DH3	Ant1	Hop	1.646	175	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.889	119	0.344	≤0.4	PASS

Test Graphs



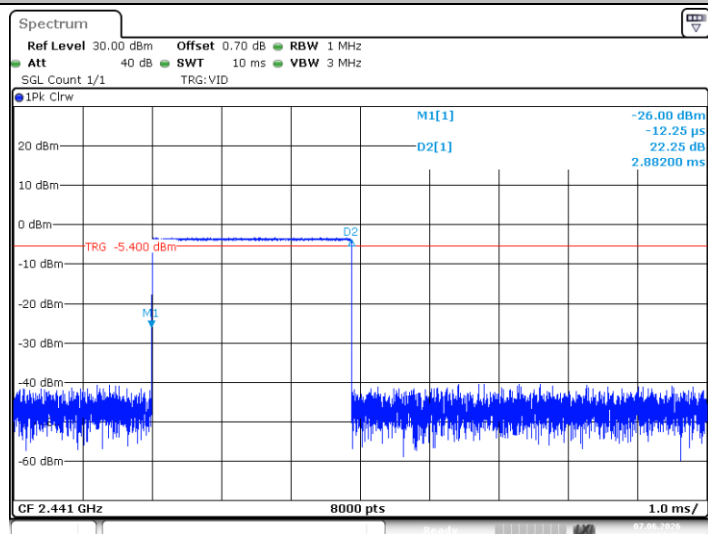


Date: 7.JUN.2026 22:23:33

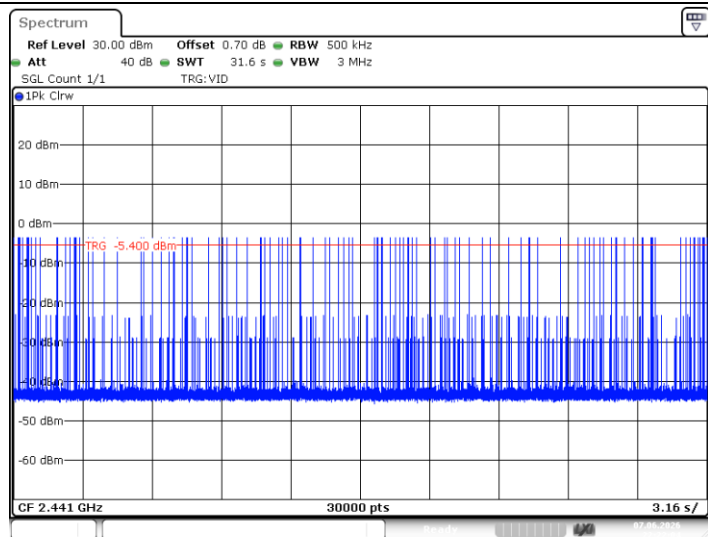


Date: 7.JUN.2026 22:24:07

DH5_Ant1_Hop

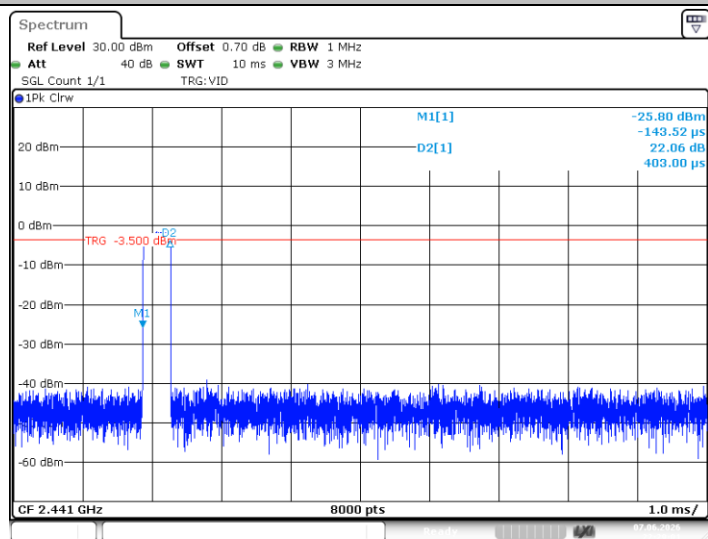


Date: 7.JUN.2026 22:21:30

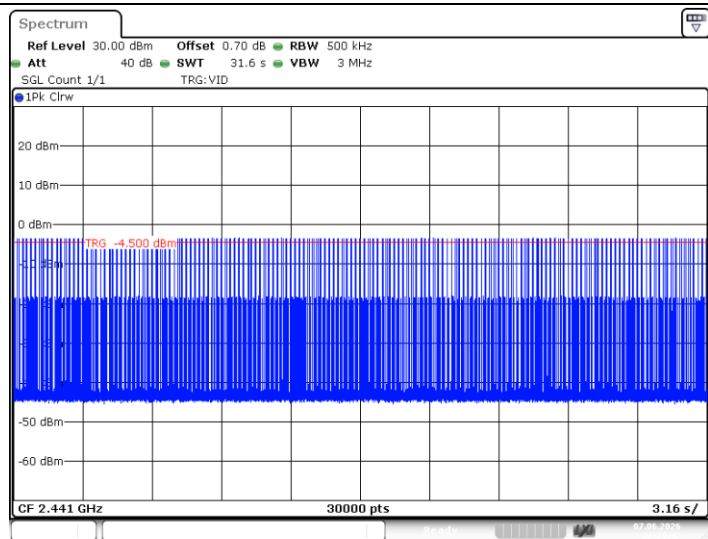


Date: 7.JUN.2026 22:22:05

2DH1_Ant1_Hop

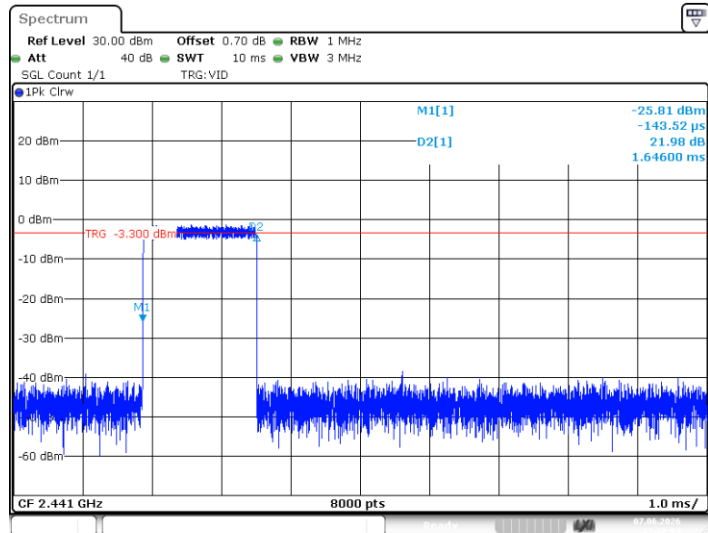


Date: 7.JUN.2026 22:29:01

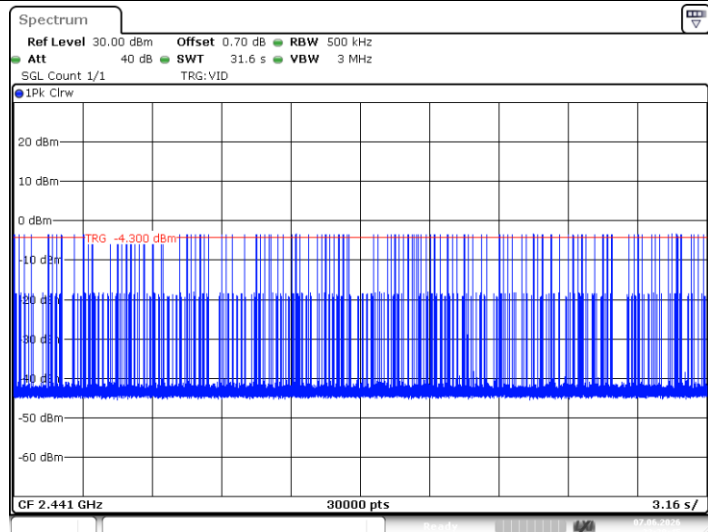


Date: 7.JUN.2026 22:29:42

2DH3_Ant1_Hop

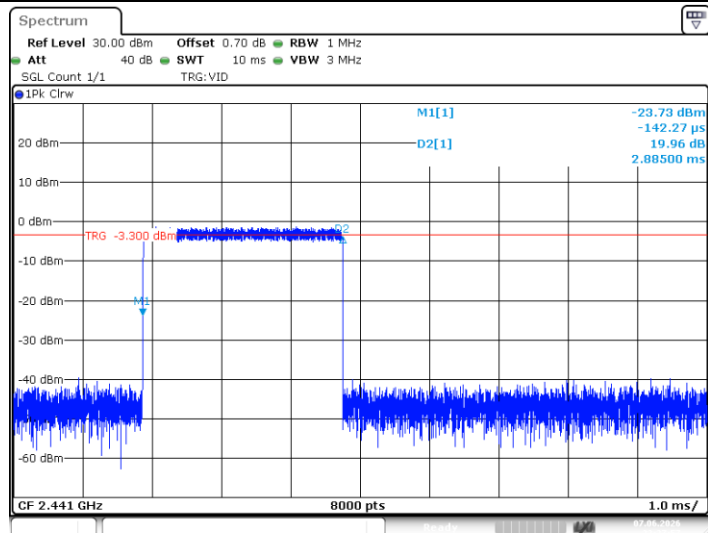


Date: 7.JUN.2026 22:30:04

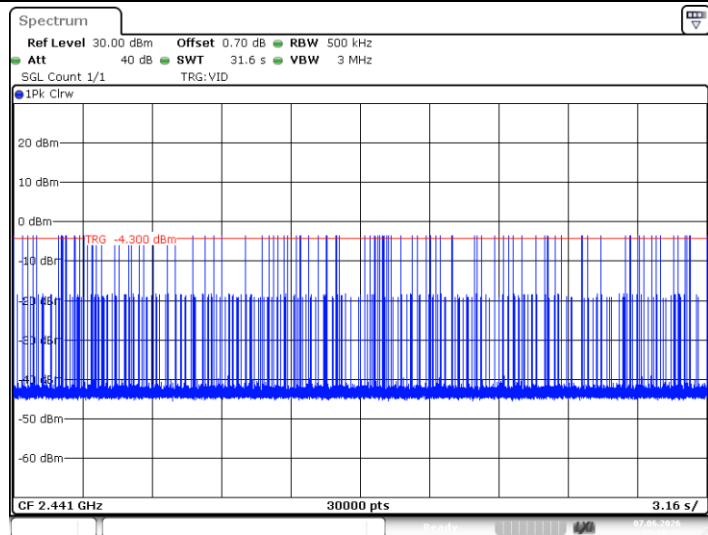


Date: 7.JUN.2026 22:30:45

2DH5_Ant1_Hop

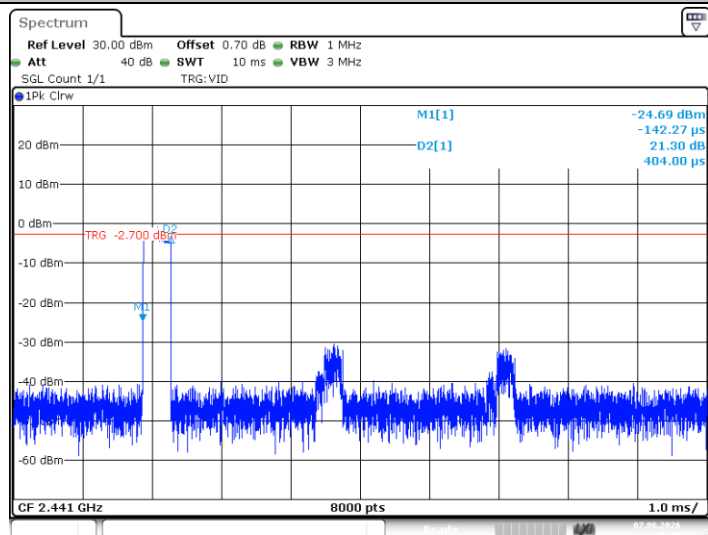


Date: 7.JUN.2026 22:27:57

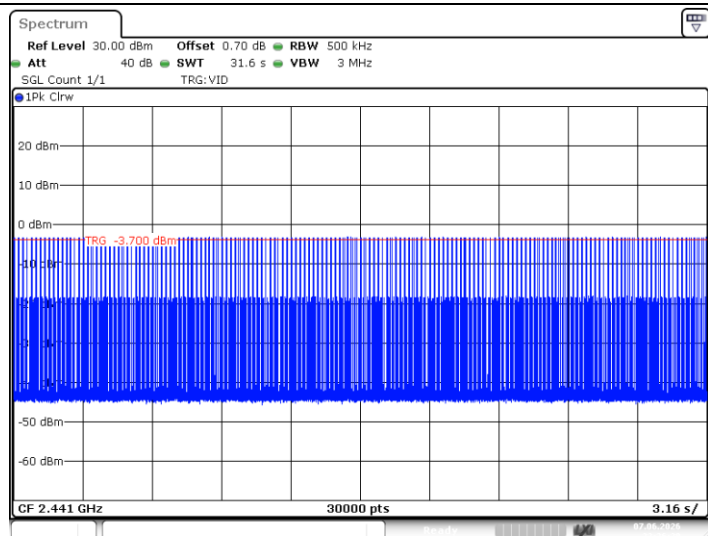


Date: 7.JUN.2026 22:28:38

3DH1_Ant1_Hop

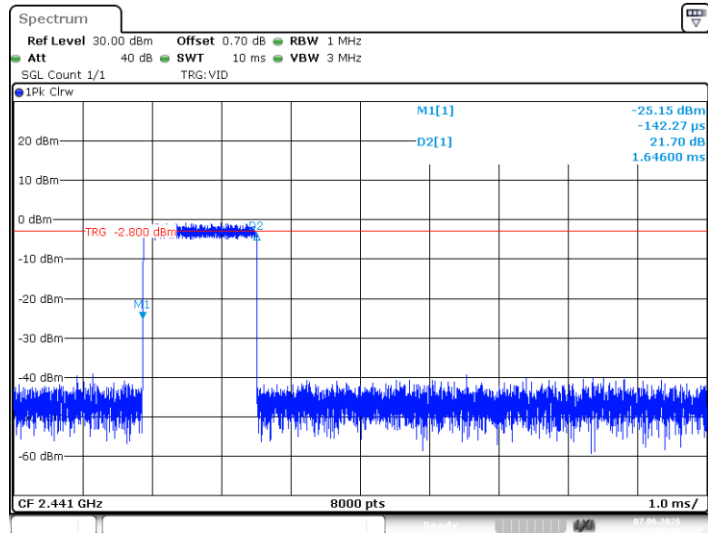


Date: 7.JUN.2026 22:35:49

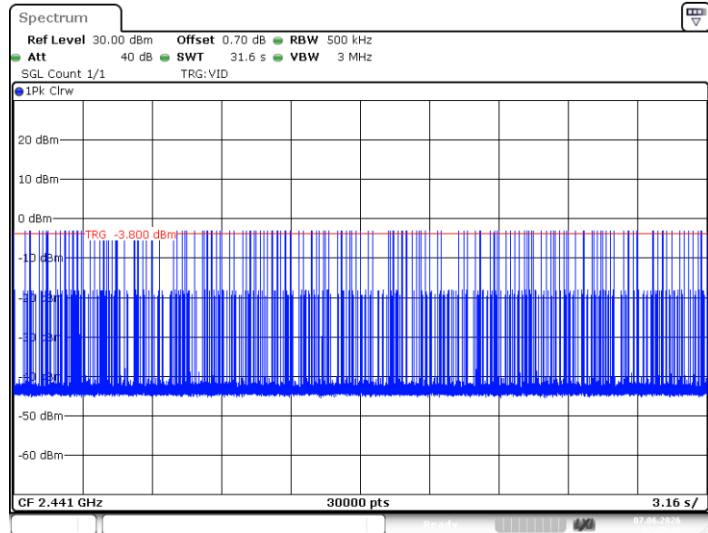


Date: 7.JUN.2026 22:36:29

3DH3_Ant1_Hop

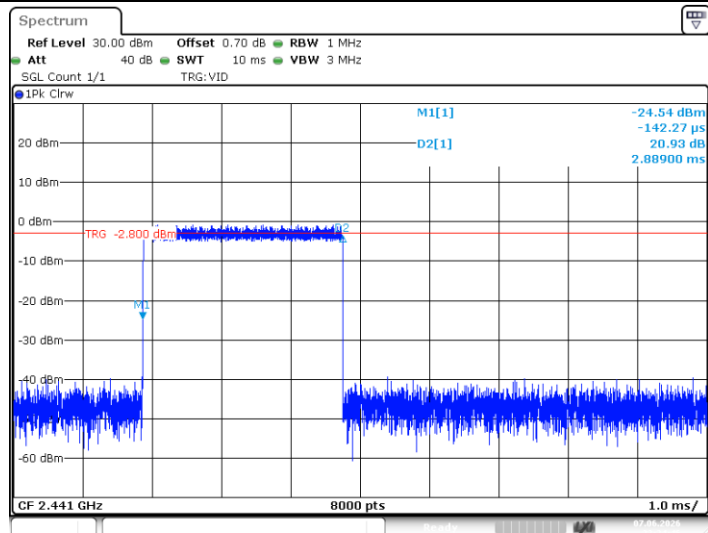


Date: 7.JUN.2026 22:36:51

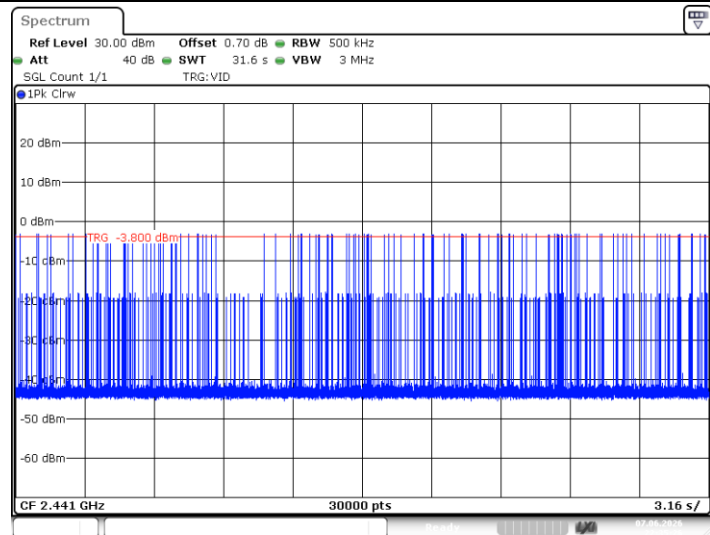


Date: 7.JUN.2026 22:37:32

3DH5_Ant1_Hop



Date: 7.JUN.2026 22:34:46



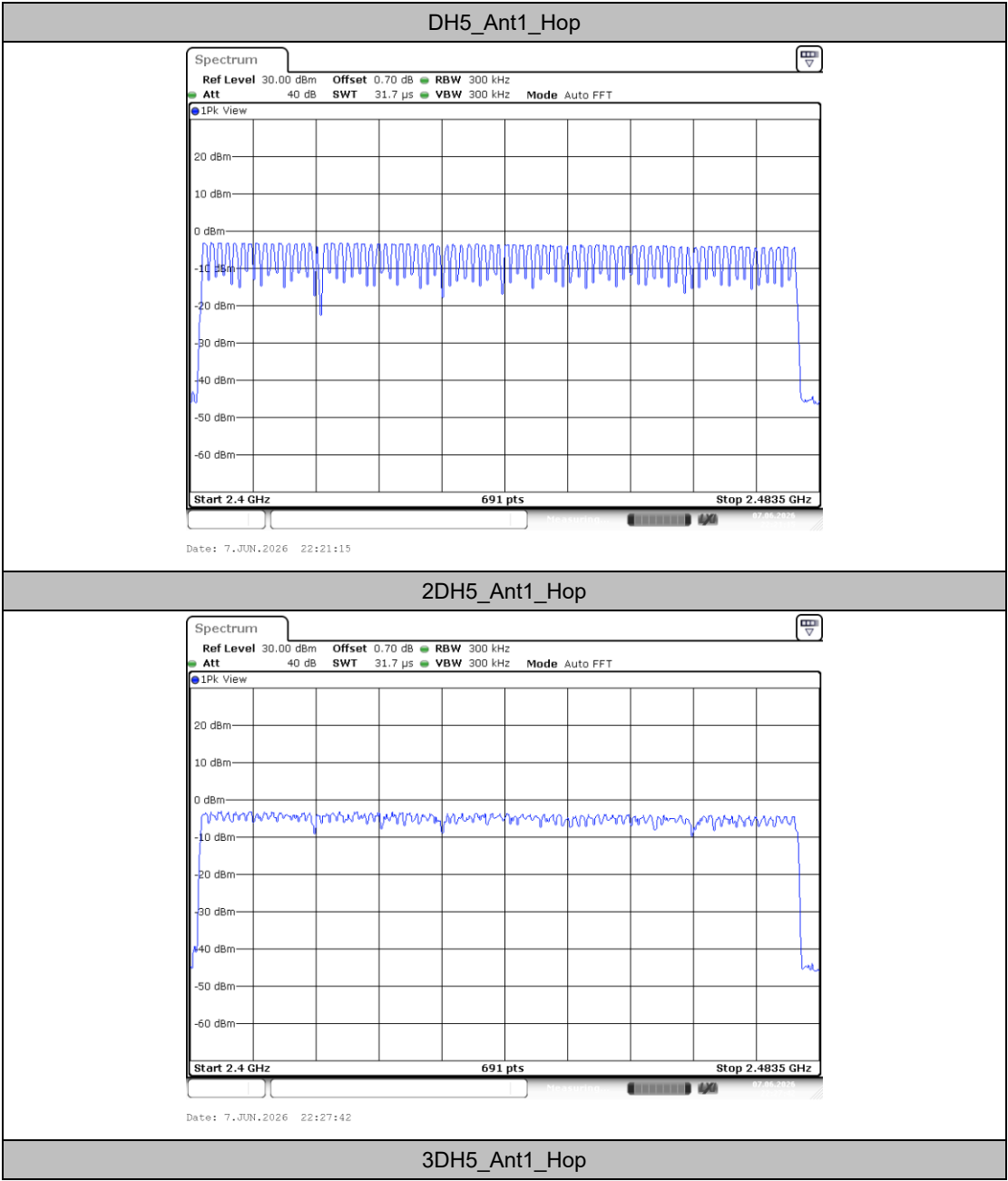
Date: 7.JUN.2026 22:35:27

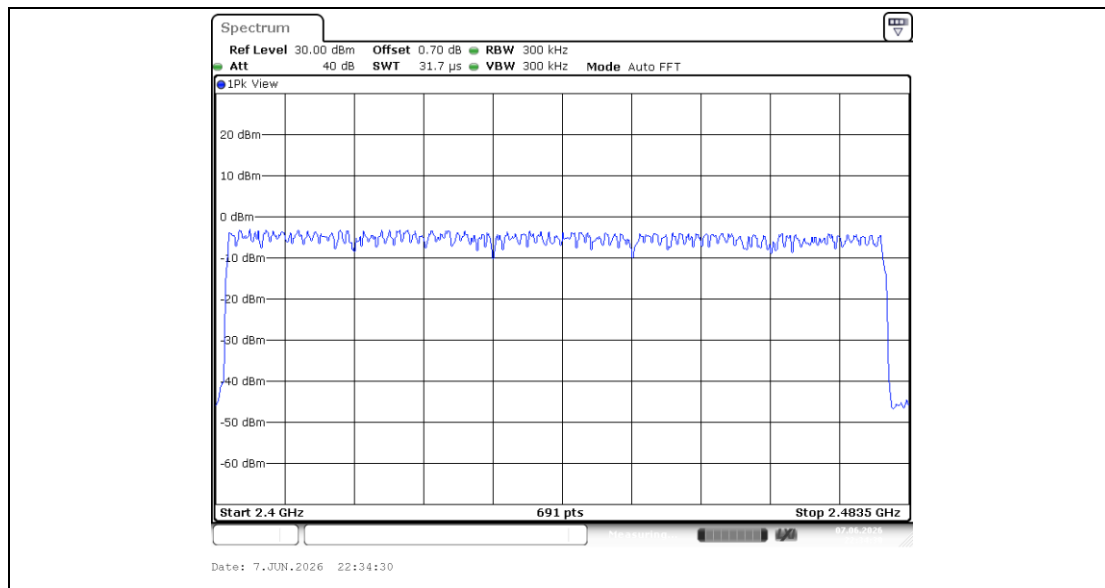
Appendix F: Number of hopping channels

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



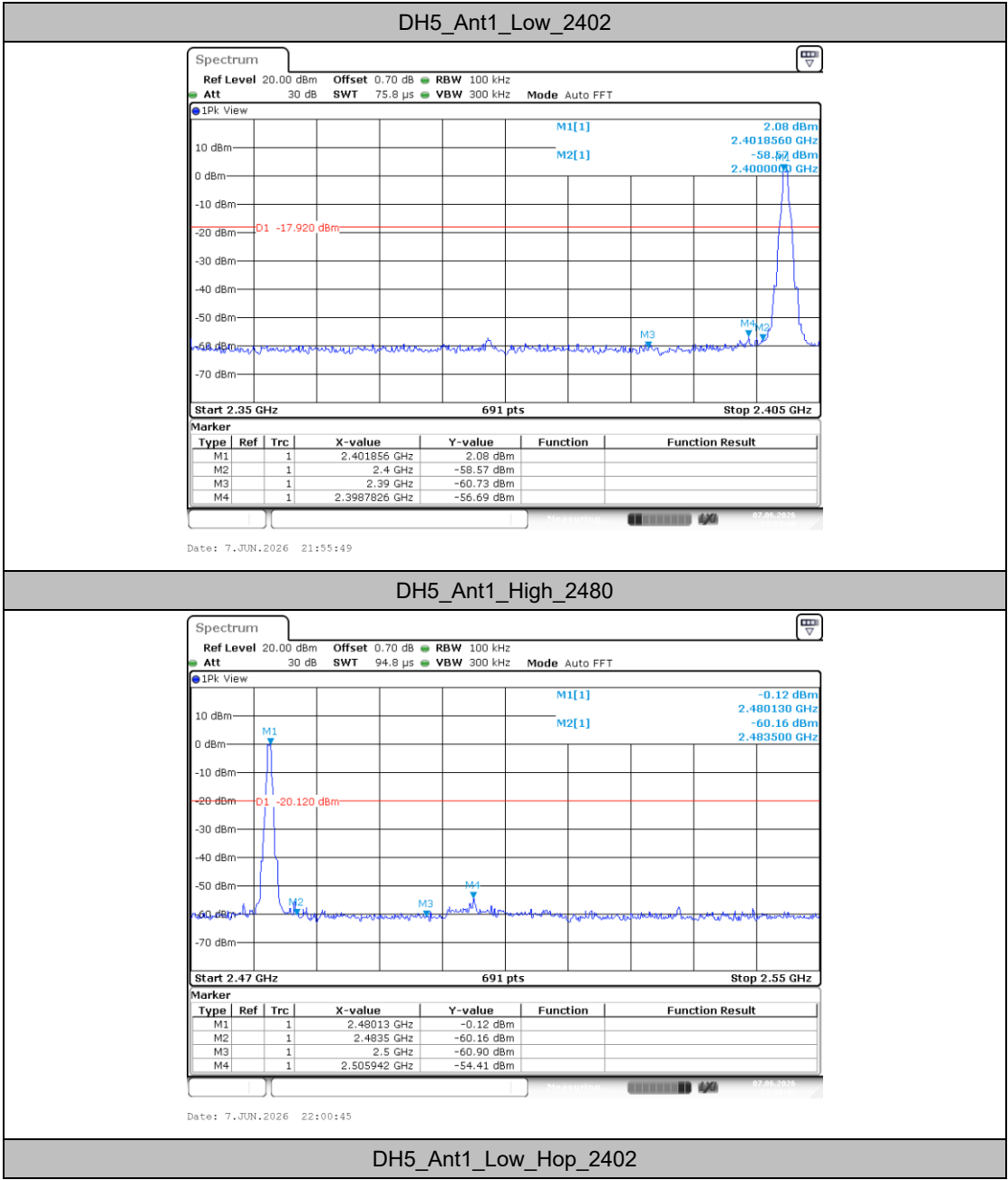


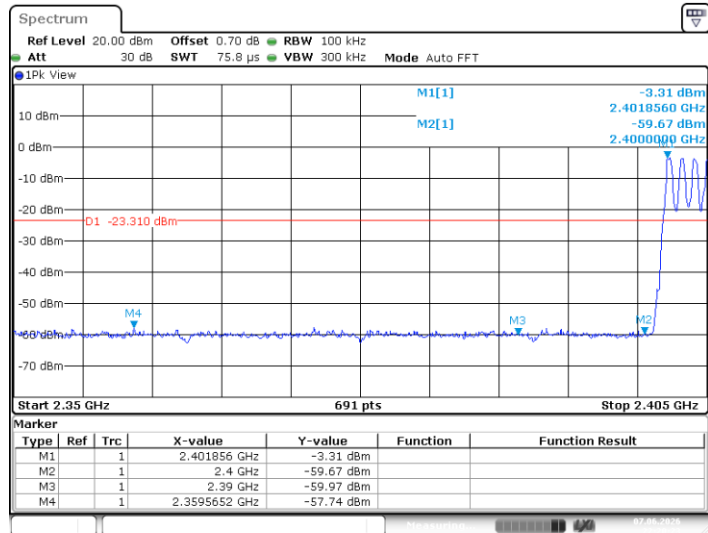
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.08	-56.69	≤-17.92	PASS
		High	2480	-0.12	-54.41	≤-20.12	PASS
		Low	Hop_2402	-3.31	-57.74	≤-23.31	PASS
		High	Hop_2480	-4.69	-55.4	≤-24.69	PASS
2DH5	Ant1	Low	2402	-4.21	-58.19	≤-24.21	PASS
		High	2480	-5.66	-57.21	≤-25.66	PASS
		Low	Hop_2402	-3.99	-56.49	≤-23.99	PASS
		High	Hop_2480	-4.54	-56.9	≤-24.54	PASS
3DH5	Ant1	Low	2402	-3.14	-54.64	≤-23.14	PASS
		High	2480	-4.36	-57.06	≤-24.36	PASS
		Low	Hop_2402	-3.90	-57.95	≤-23.9	PASS
		High	Hop_2480	-5.02	-56.43	≤-25.02	PASS

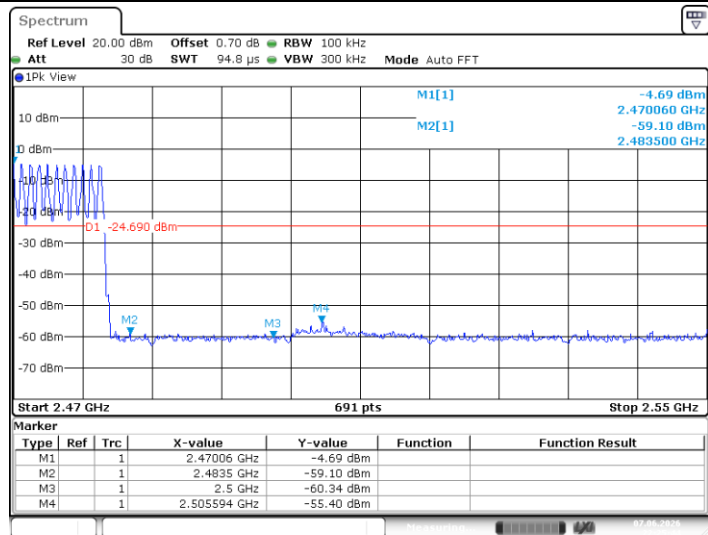
Test Graphs





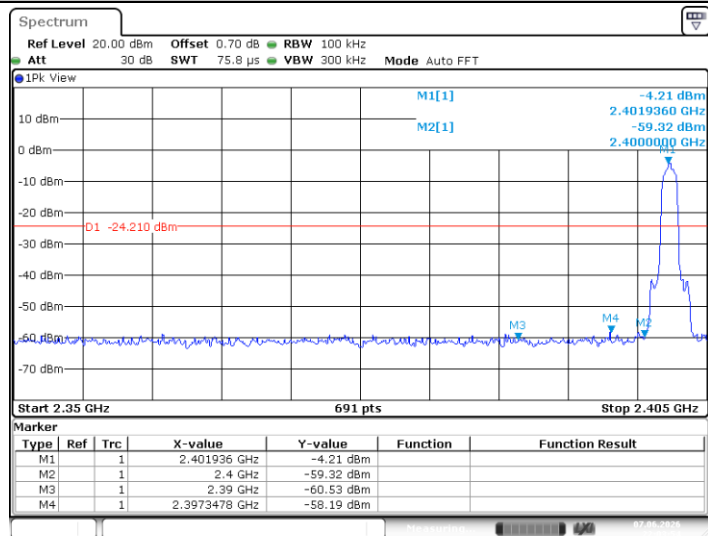
Date: 7.JUN.2026 22:20:23

DH5_Ant1_High_Hop_2480



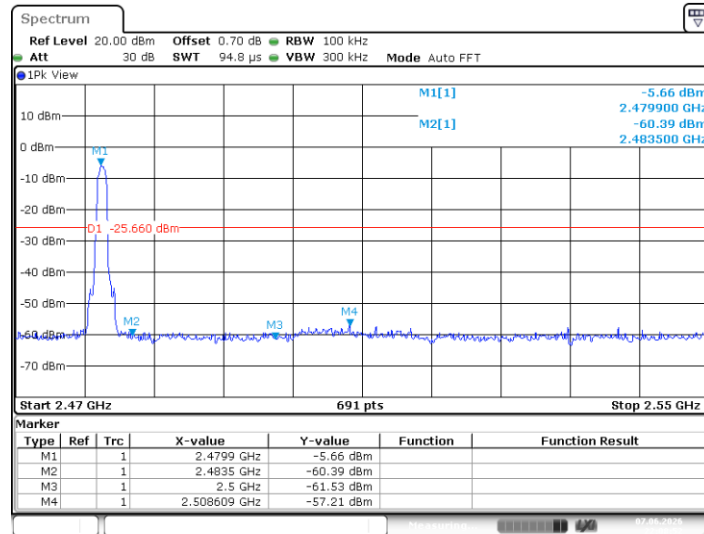
Date: 7.JUN.2026 22:25:43

2DH5_Ant1_Low_2402



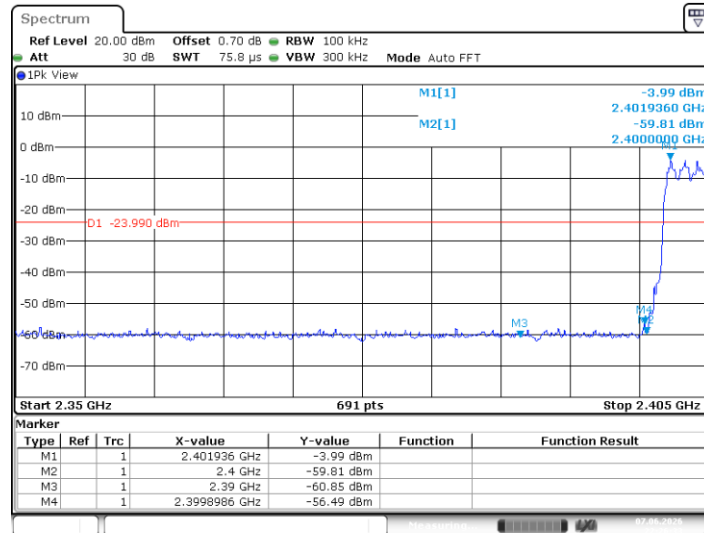
Date: 7.JUN.2026 22:03:54

2DH5_Ant1_High_2480



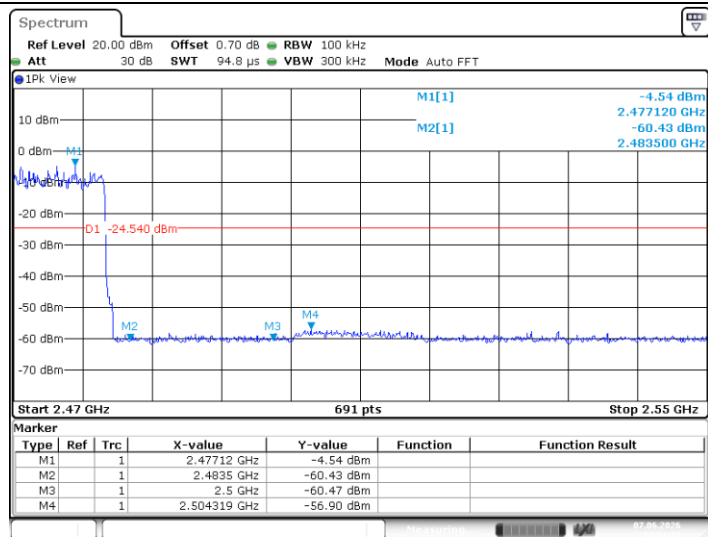
Date: 7.JUN.2026 22:08:51

2DH5_Ant1_Low_Hop_2402



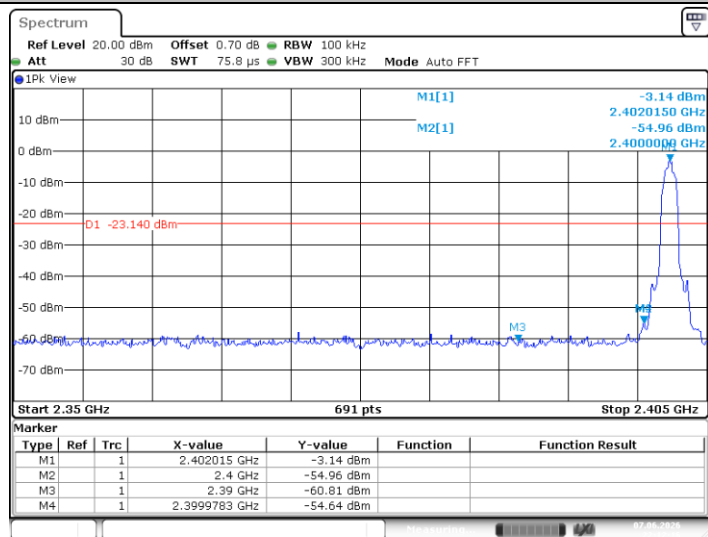
Date: 7.JUN.2026 22:26:33

2DH5_Ant1_High_Hop_2480



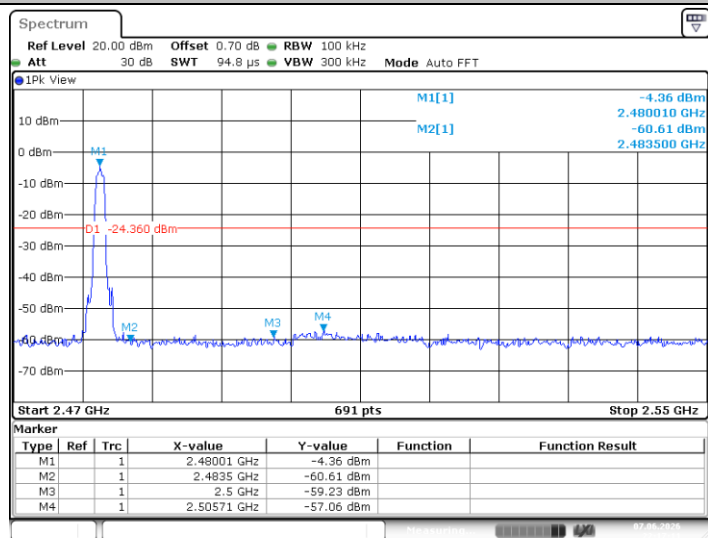
Date: 7.JUN.2026 22:31:23

3DH5_Ant1_Low_2402



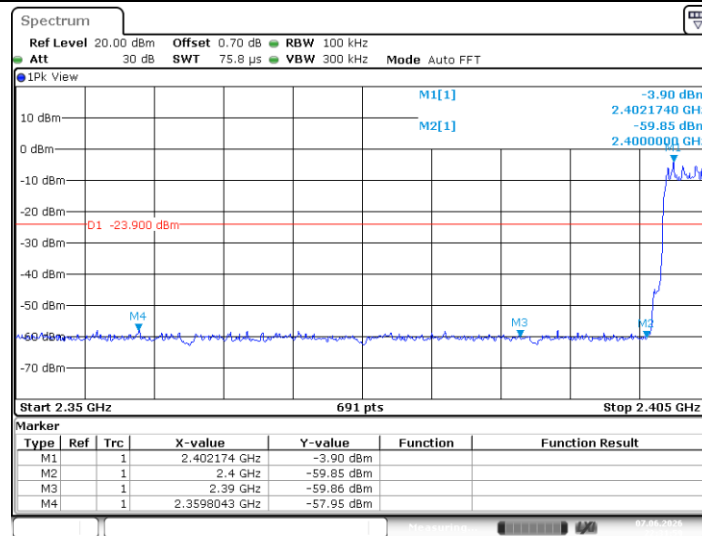
Date: 7.JUN.2026 22:12:16

3DH5_Ant1_High_2480



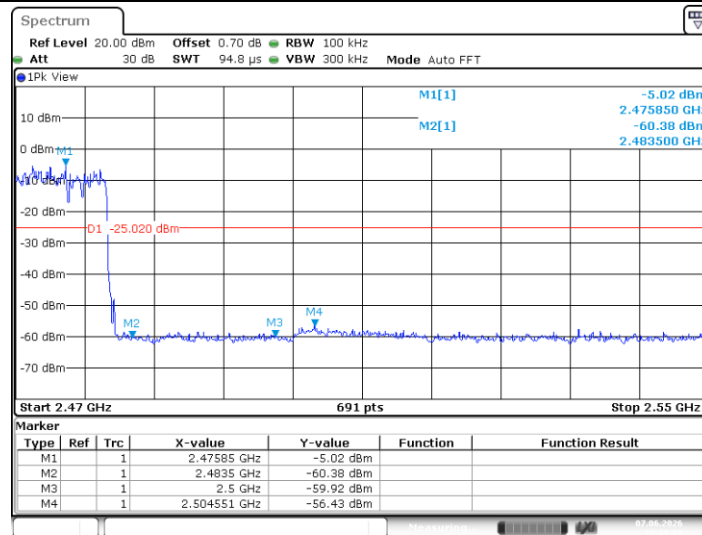
Date: 7.JUN.2026 22:17:11

3DH5_Ant1_Low_Hop_2402



Date: 7.JUN.2026 22:31:59

3DH5_Ant1_High_Hop_2480



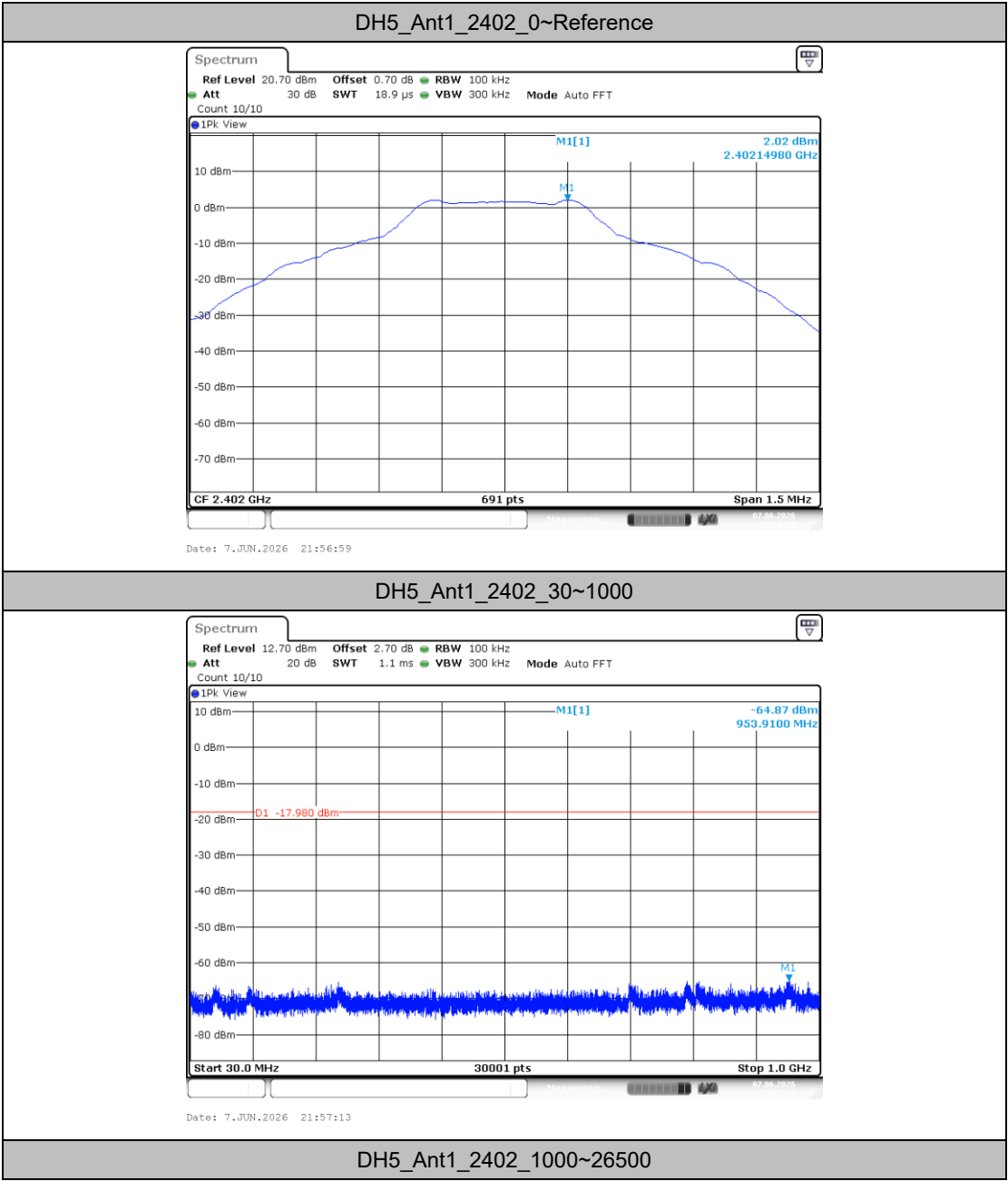
Date: 7.JUN.2026 22:38:08

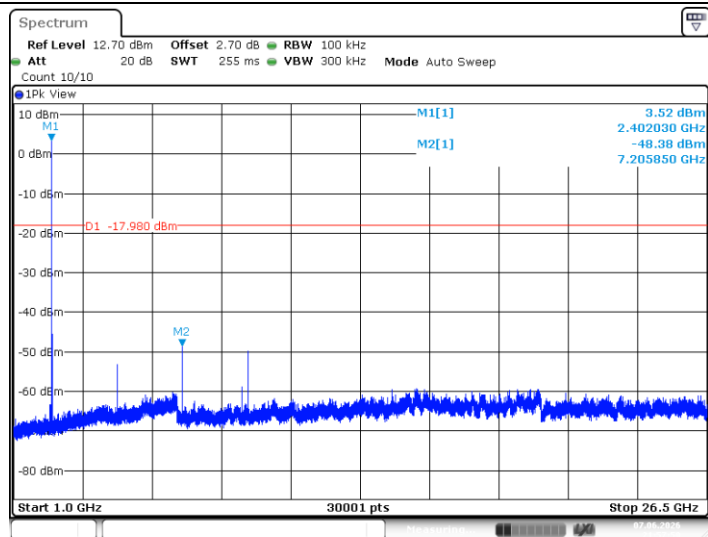
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-64.87	≤-17.98	PASS
			1000~26500	2.02	-48.38	≤-17.98	PASS
		2441	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-64.35	≤-19.03	PASS
			1000~26500	0.97	-51.35	≤-19.03	PASS
		2480	Reference	-0.15	-0.15	---	PASS
			30~1000	-0.15	-64.47	≤-20.15	PASS
			1000~26500	-0.15	-50.41	≤-20.15	PASS
2DH5	Ant1	2402	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-63.73	≤-23.38	PASS
			1000~26500	-3.38	-50.91	≤-23.38	PASS
		2441	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-64.49	≤-23.81	PASS
			1000~26500	-3.81	-50.53	≤-23.81	PASS
		2480	Reference	-4.51	-4.51	---	PASS
			30~1000	-4.51	-64.03	≤-24.51	PASS
			1000~26500	-4.51	-51.38	≤-24.51	PASS
3DH5	Ant1	2402	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-64.53	≤-23.19	PASS
			1000~26500	-3.19	-48.64	≤-23.19	PASS
		2441	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-63.03	≤-23.65	PASS
			1000~26500	-3.65	-50.33	≤-23.65	PASS
		2480	Reference	-4.36	-4.36	---	PASS
			30~1000	-4.36	-64.16	≤-24.36	PASS
			1000~26500	-4.36	-51.57	≤-24.36	PASS

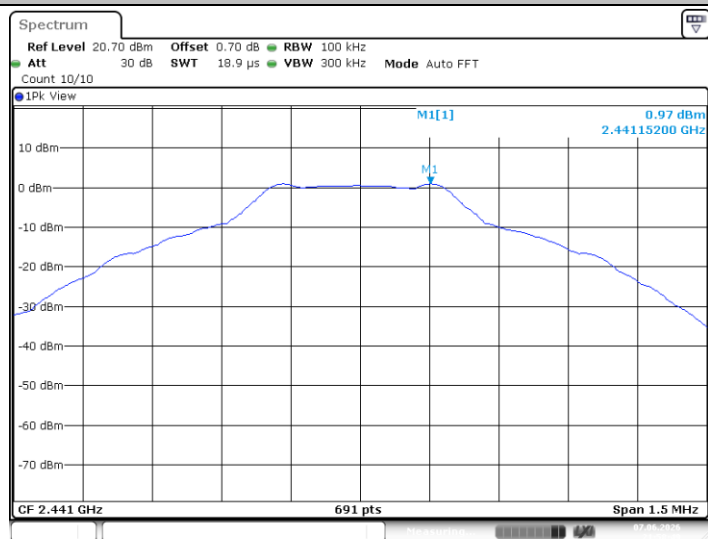
Test Graphs





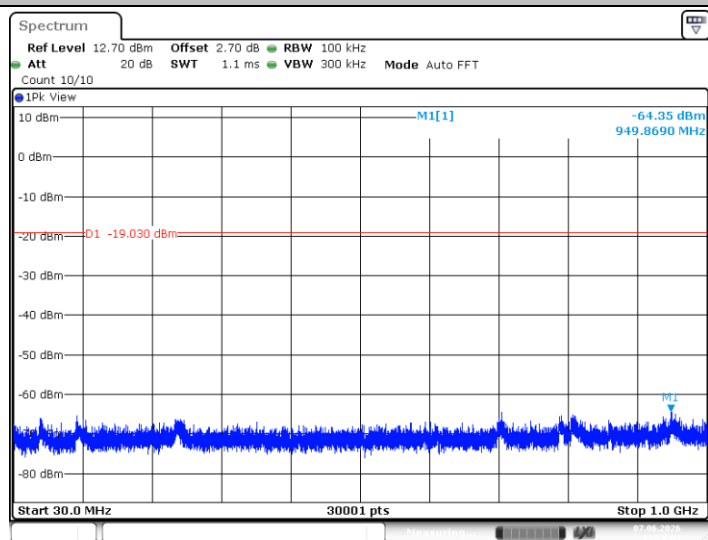
Date: 7.JUN.2026 21:57:51

DH5_Ant1_2441_0~Reference



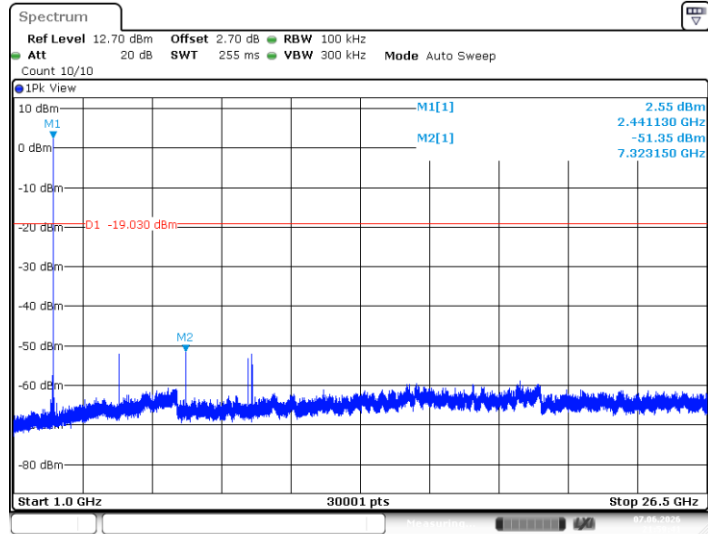
Date: 7.JUN.2026 21:58:49

DH5_Ant1_2441_30~1000



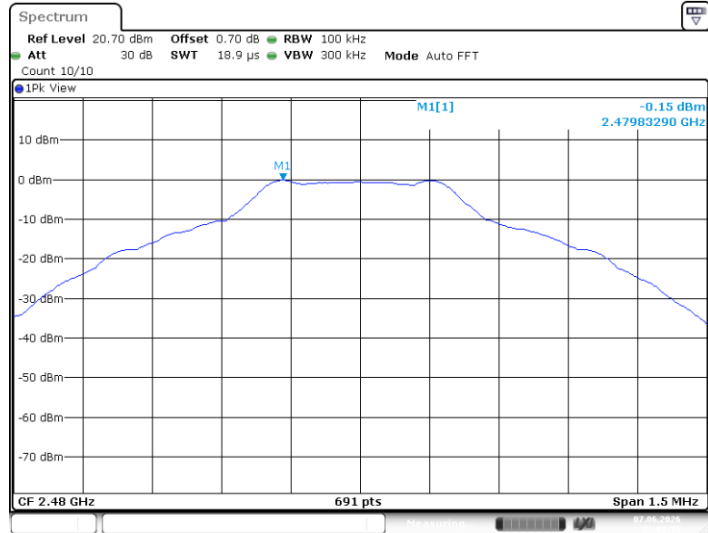
Date: 7.JUN.2026 21:59:03

DH5_Ant1_2441_1000~26500



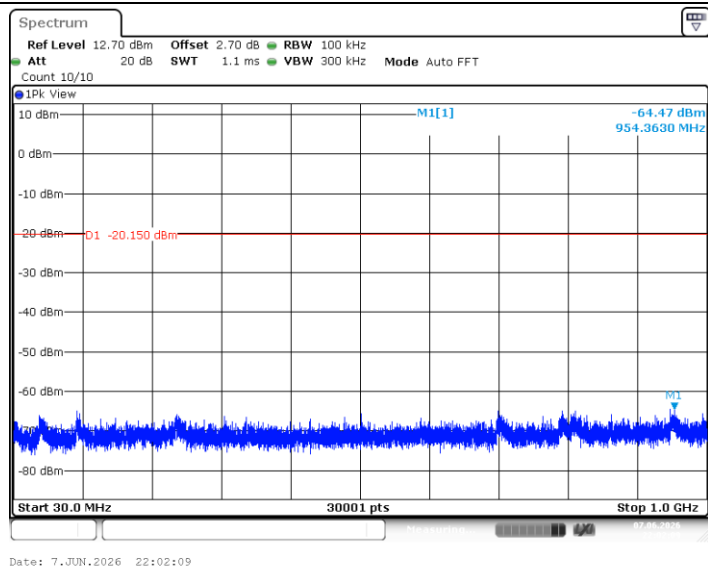
Date: 7.JUN.2026 21:59:41

DH5_Ant1_2480_0~Reference

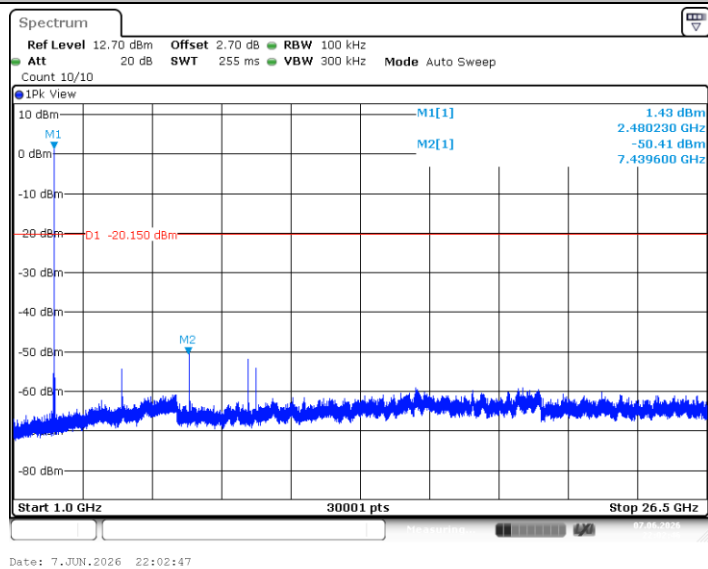


Date: 7.JUN.2026 22:01:55

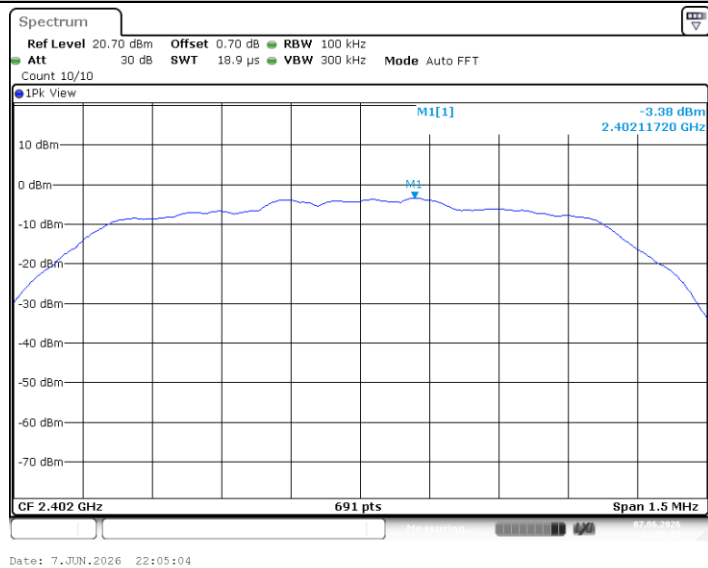
DH5_Ant1_2480_30~1000

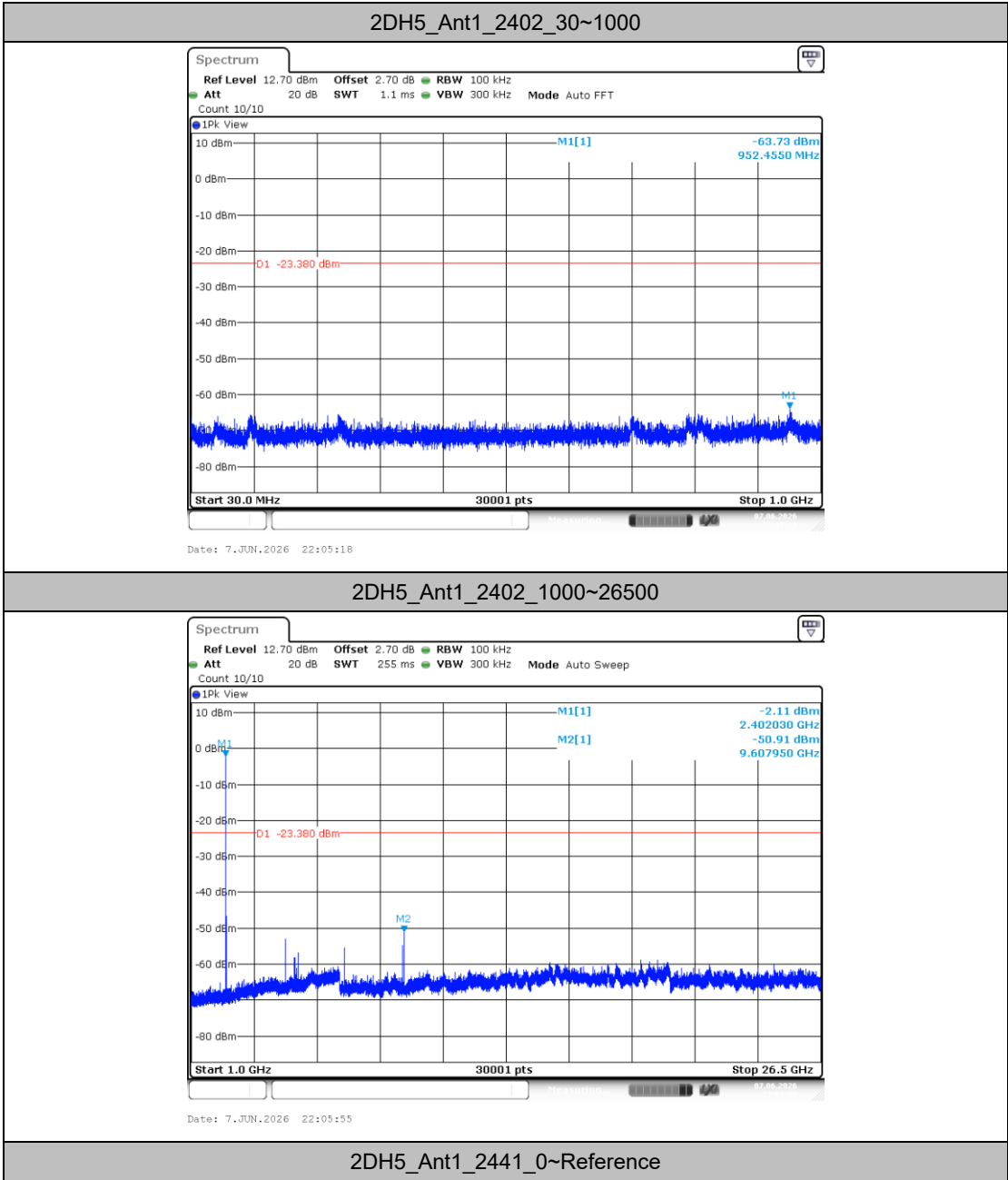


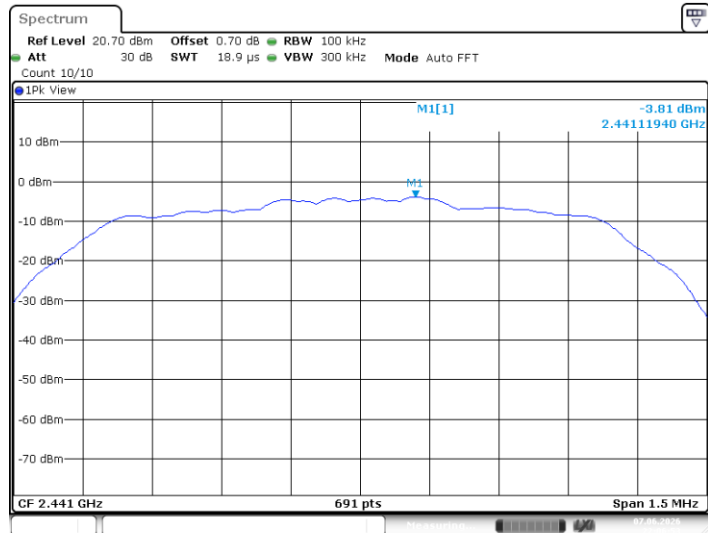
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

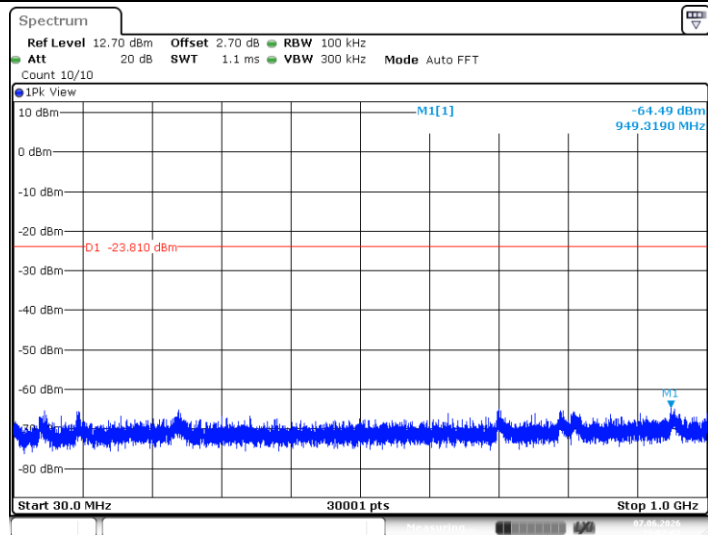






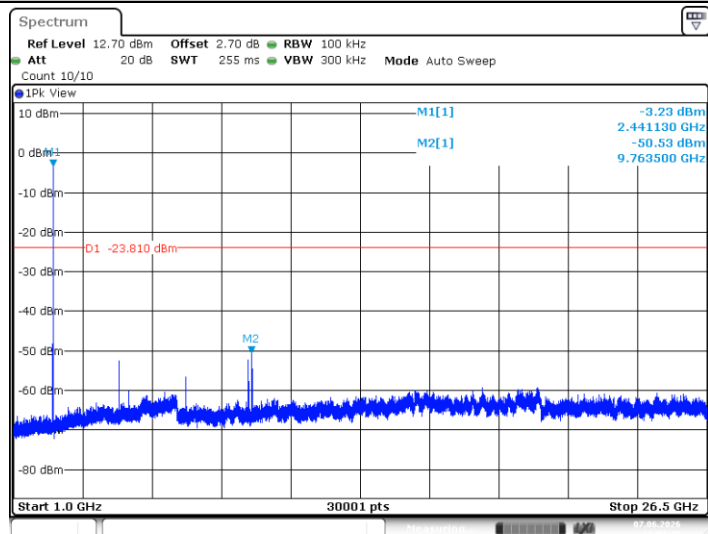
Date: 7.JUN.2026 22:06:53

2DH5_Ant1_2441_30~1000



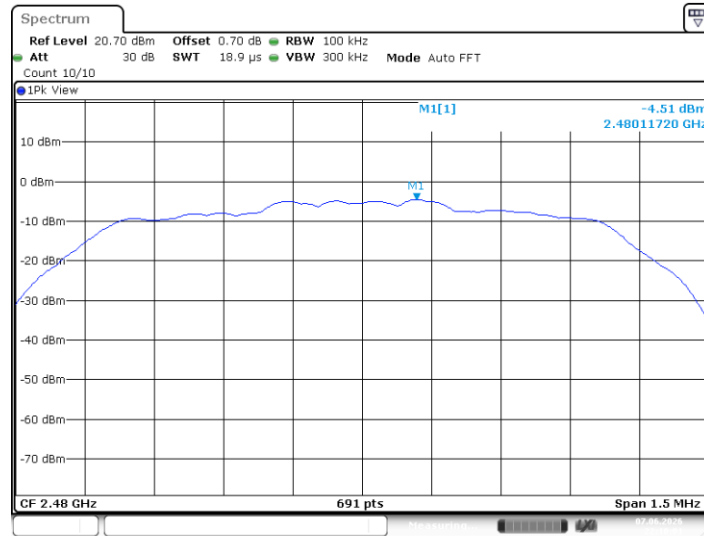
Date: 7.JUN.2026 22:07:07

2DH5_Ant1_2441_1000~26500



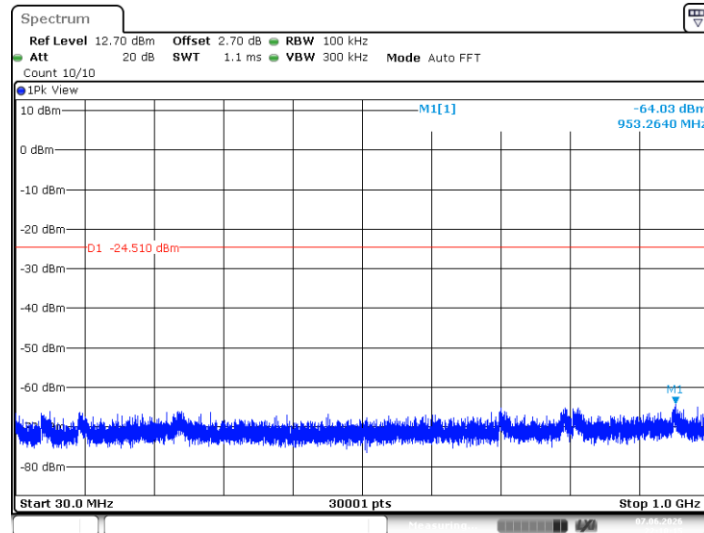
Date: 7.JUN.2026 22:07:45

2DH5_Ant1_2480_0~Reference



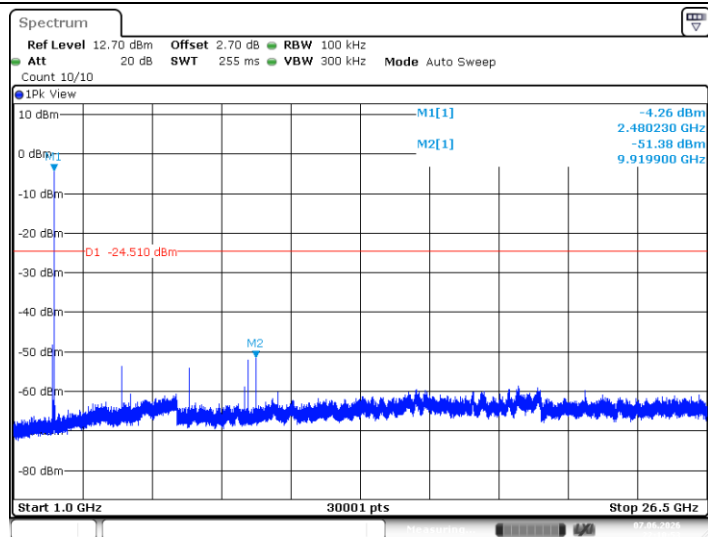
Date: 7.JUN.2026 22:10:01

2DH5_Ant1_2480_30~1000



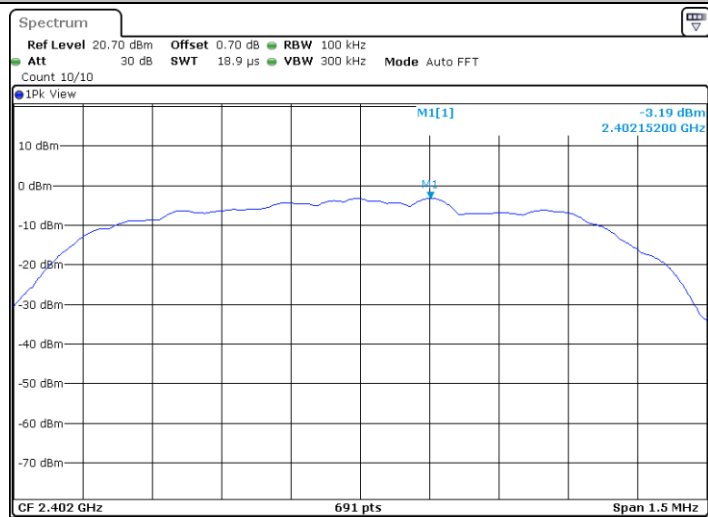
Date: 7.JUN.2026 22:10:15

2DH5_Ant1_2480_1000~26500



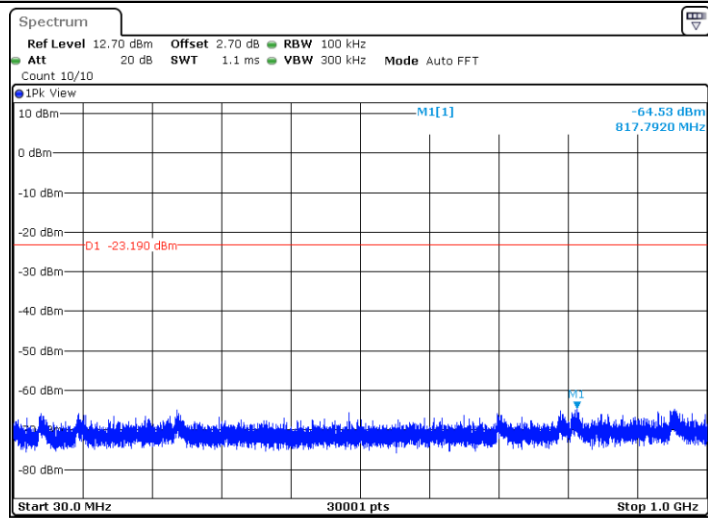
Date: 7.JUN.2026 22:10:53

3DH5_Ant1_2402_0~Reference



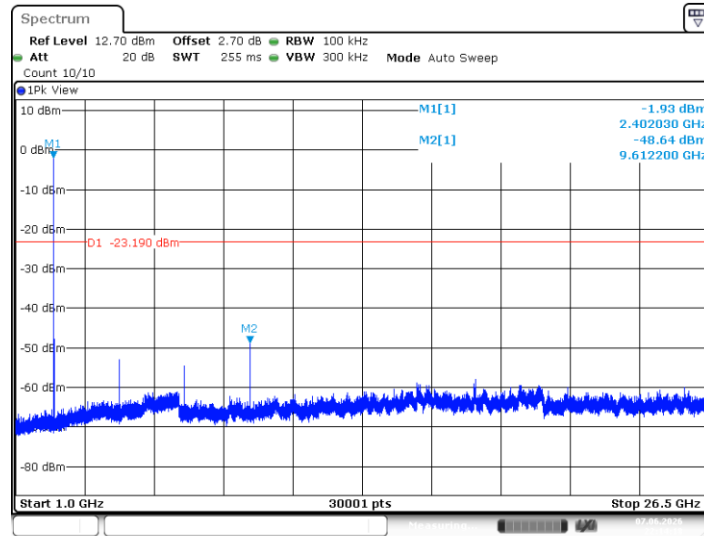
Date: 7.JUN.2026 22:13:27

3DH5_Ant1_2402_30~1000



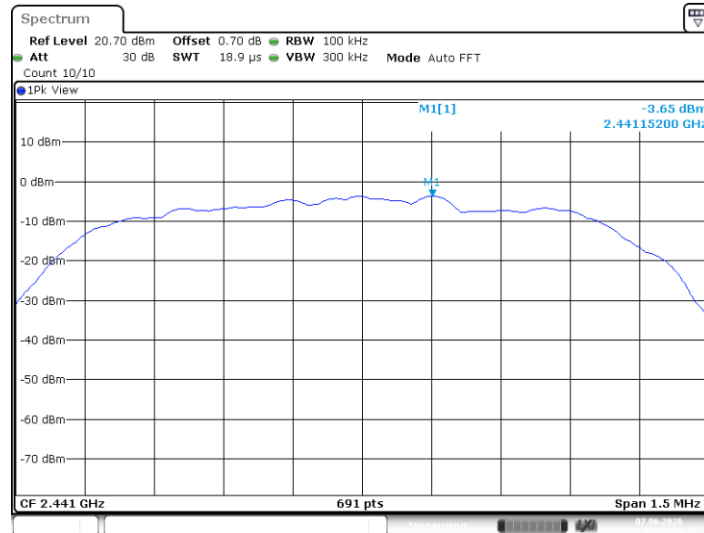
Date: 7.JUN.2026 22:13:41

3DH5_Ant1_2402_1000~26500



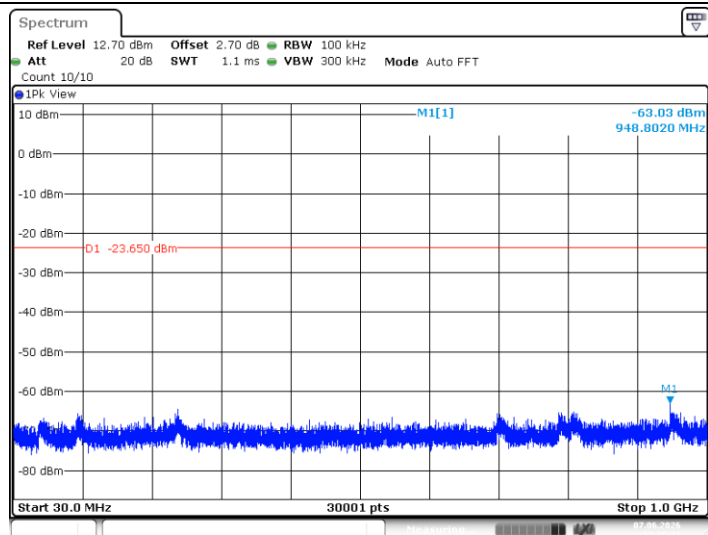
Date: 7.JUN.2026 22:14:19

3DH5_Ant1_2441_0~Reference



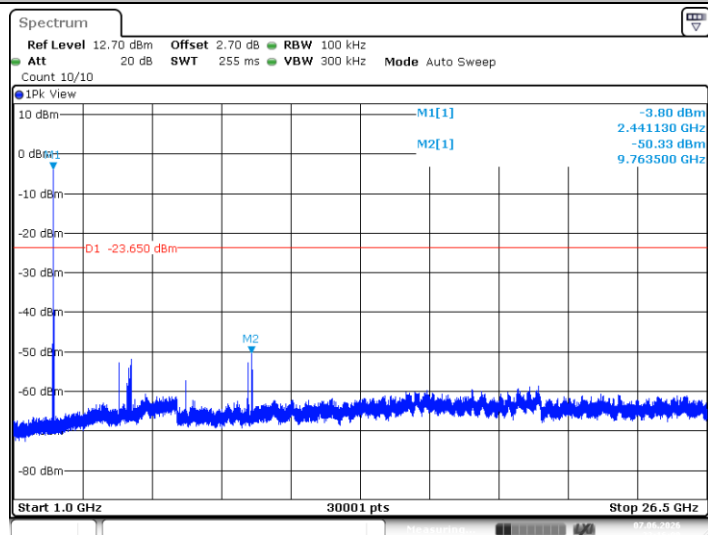
Date: 7.JUN.2026 22:15:17

3DH5_Ant1_2441_30~1000



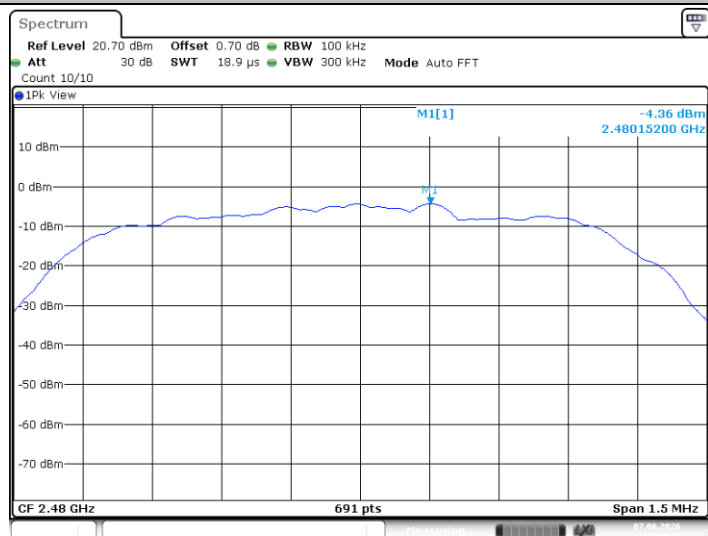
Date: 7.JUN.2026 22:15:31

3DH5_Ant1_2441_1000~26500



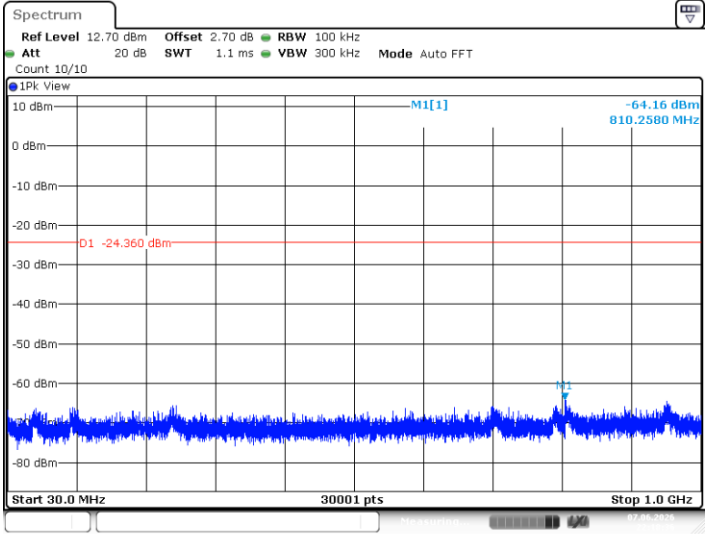
Date: 7.JUN.2026 22:16:09

3DH5_Ant1_2480_0~Reference



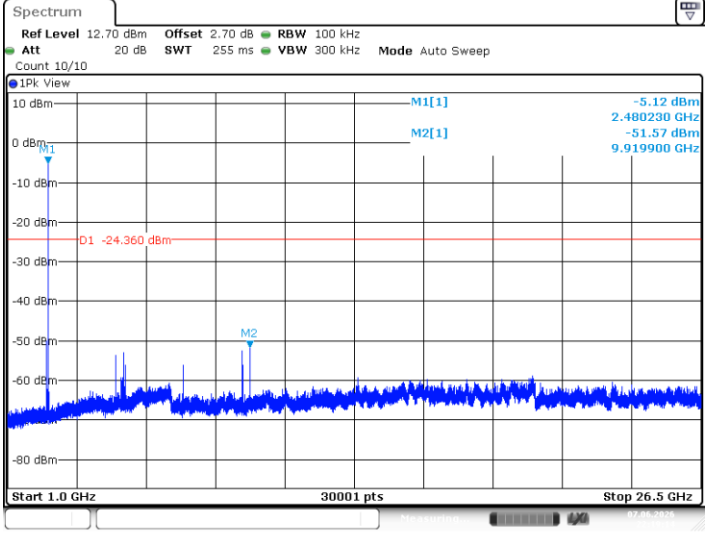
Date: 7.JUN.2026 22:18:22

3DH5_Ant1_2480_30~1000



Date: 7.JUN.2026 22:18:36

3DH5_Ant1_2480_1000~26500



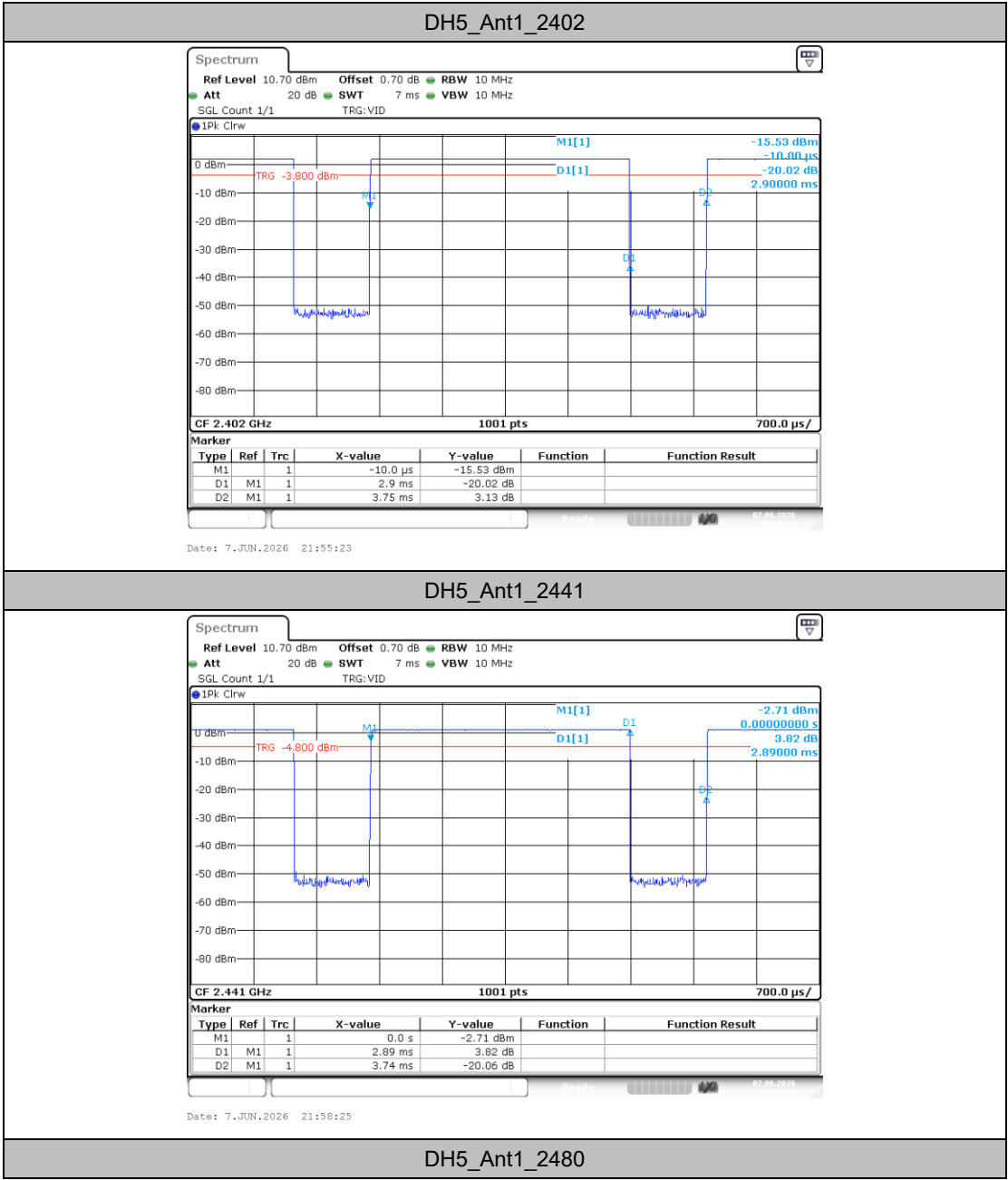
Date: 7.JUN.2026 22:19:14

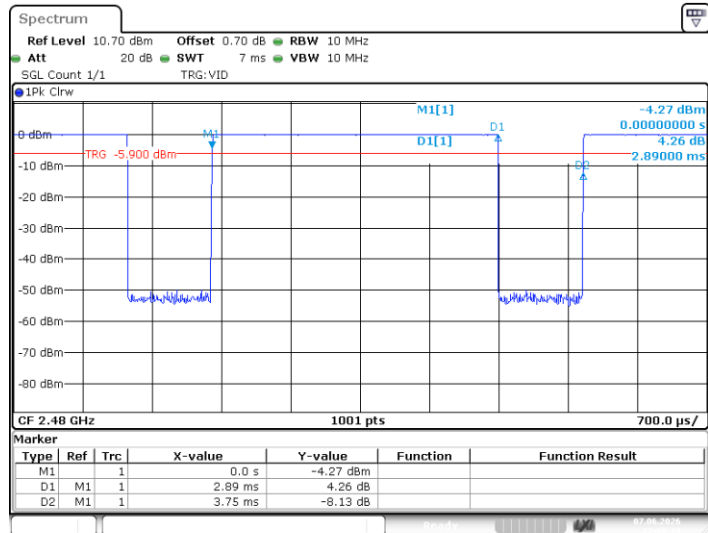
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	77.33	1.12	---	---
		2441	2.89	3.74	77.27	1.12	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.90	3.75	77.33	1.12	---	---
		2480	2.90	3.74	77.54	1.10	---	---
3DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.90	3.75	77.33	1.12	---	---
		2480	2.91	3.75	77.60	1.10	---	---

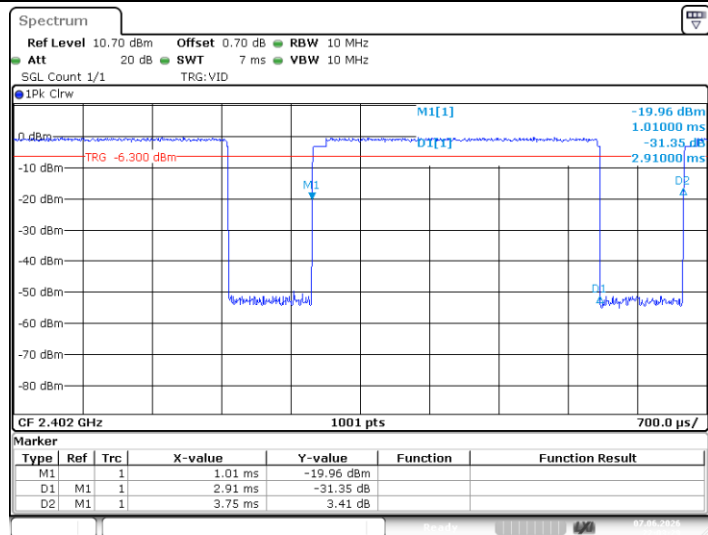
Test Graphs





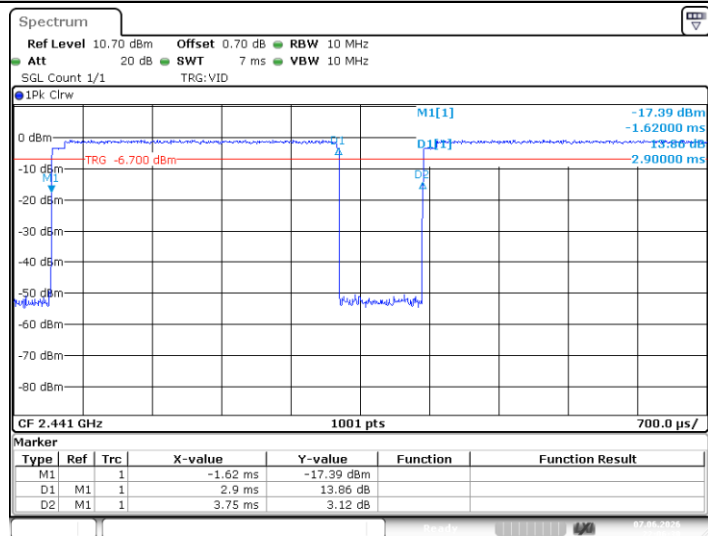
Date: 7.JUN.2026 22:00:19

2DH5_Ant1_2402



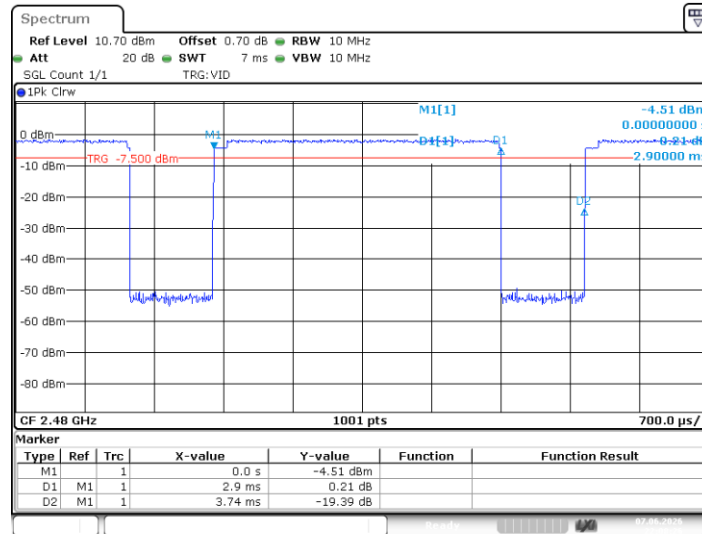
Date: 7.JUN.2026 22:03:29

2DH5_Ant1_2441



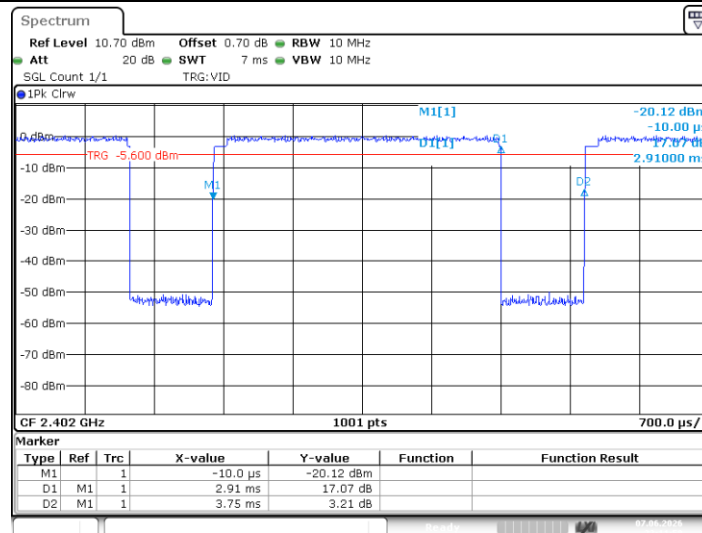
Date: 7.JUN.2026 22:06:29

2DH5_Ant1_2480



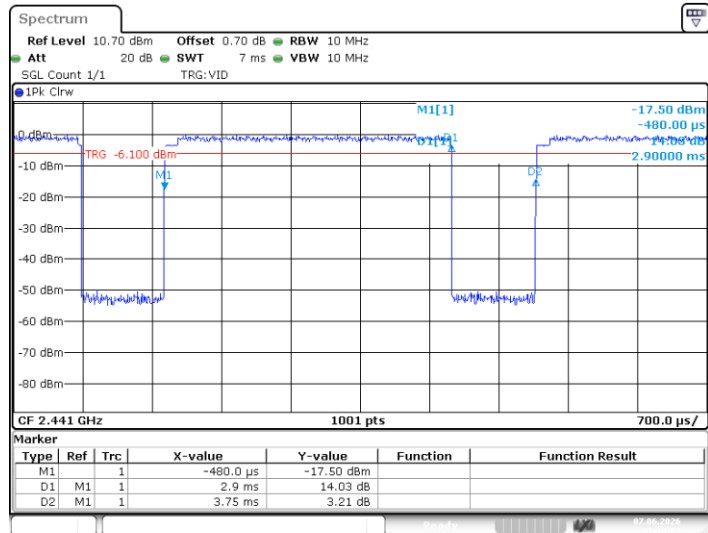
Date: 7.JUN.2026 22:08:26

3DH5_Ant1_2402



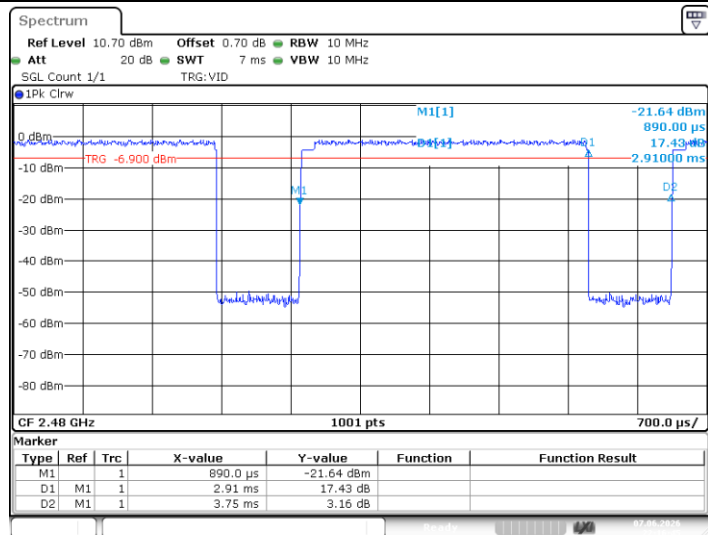
Date: 7.JUN.2026 22:11:50

3DH5_Ant1_2441



Date: 7.JUN.2026 22:14:52

3DH5_Ant1_2480



Date: 7.JUN.2026 22:16:45

Appendix J: Emissions in Restricted Bands

Test Result

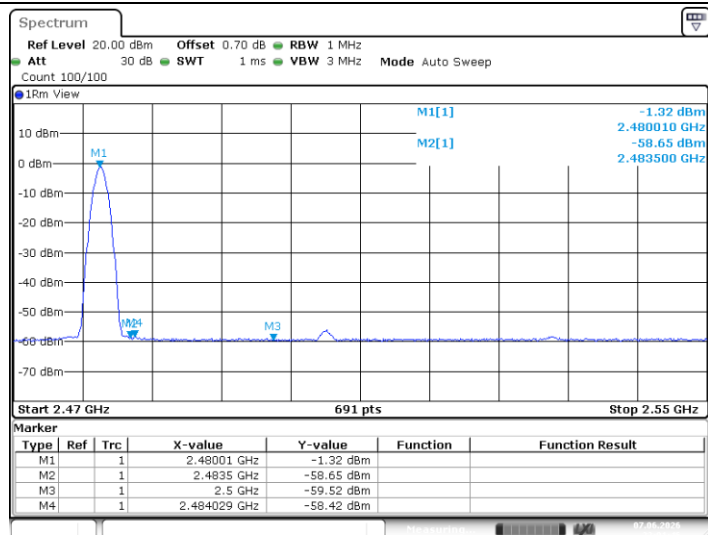
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.54	2.00	1.12	38.78	≤54	PASS
				AV	2340.326	-57.64	2.00	1.12	40.68	≤54	PASS
				AV	2390.000	-59.62	2.00	1.12	38.70	≤54	PASS
				Peak	2310.000	-48.72	2.00	0.00	48.48	≤74	PASS
				Peak	2341.391	-45.75	2.00	0.00	51.45	≤74	PASS
				Peak	2390.000	-48.53	2.00	0.00	48.67	≤74	PASS
		High	2480	AV	2483.500	-58.65	2.00	1.13	39.68	≤54	PASS
				AV	2484.029	-58.42	2.00	1.13	39.91	≤54	PASS
				AV	2500.000	-59.52	2.00	1.13	38.81	≤54	PASS
				Peak	2483.500	-46.74	2.00	0.00	50.46	≤74	PASS
				Peak	2483.565	-45.79	2.00	0.00	51.41	≤74	PASS
				Peak	2500.000	-49.2	2.00	0.00	48.00	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.61	2.00	1.10	38.69	≤54	PASS
				AV	2340.022	-57.66	2.00	1.10	40.64	≤54	PASS
				AV	2390.000	-59.72	2.00	1.10	38.58	≤54	PASS
				Peak	2310.000	-48.78	2.00	0.00	48.42	≤74	PASS
				Peak	2342.609	-46.14	2.00	0.00	51.06	≤74	PASS
				Peak	2390.000	-48.73	2.00	0.00	48.47	≤74	PASS
		High	2480	AV	2483.500	-59.21	2.00	1.10	39.09	≤54	PASS
				AV	2484.957	-58.89	2.00	1.10	39.41	≤54	PASS
				AV	2500.000	-59.29	2.00	1.10	39.01	≤54	PASS
				Peak	2483.500	-47.17	2.00	0.00	50.03	≤74	PASS
				Peak	2483.681	-46.94	2.00	0.00	50.26	≤74	PASS
				Peak	2500.000	-47.66	2.00	0.00	49.54	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.64	2.00	1.10	38.66	≤54	PASS
				AV	2340.022	-57.64	2.00	1.10	40.66	≤54	PASS
				AV	2390.000	-59.7	2.00	1.10	38.60	≤54	PASS
				Peak	2310.000	-48.02	2.00	0.00	49.18	≤74	PASS
				Peak	2342.609	-46.18	2.00	0.00	51.02	≤74	PASS
				Peak	2390.000	-49.16	2.00	0.00	48.04	≤74	PASS
		High	2480	AV	2483.500	-59.38	2.00	1.10	38.92	≤54	PASS
				AV	2483.797	-58.88	2.00	1.10	39.42	≤54	PASS
				AV	2500.000	-59.61	2.00	1.10	38.69	≤54	PASS
				Peak	2483.500	-45.6	2.00	0.00	51.60	≤74	PASS
				Peak	2483.913	-47	2.00	0.00	50.20	≤74	PASS
				Peak	2500.000	-48.78	2.00	0.00	48.42	≤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.

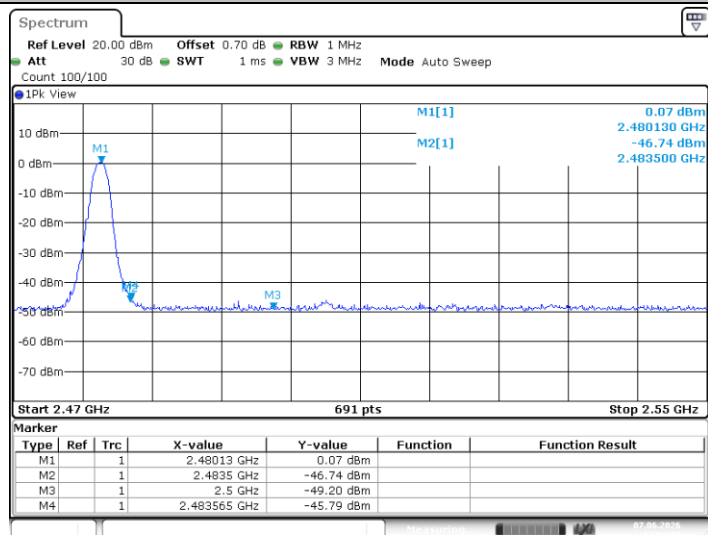
Test Graphs





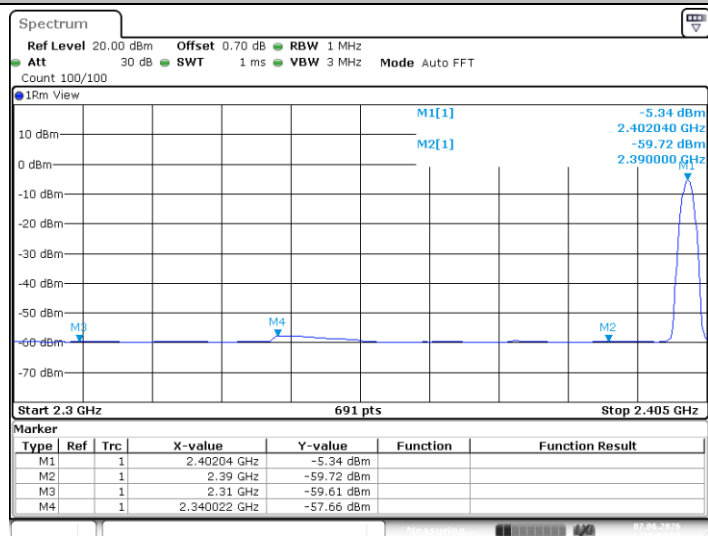
Date: 7.JUN.2026 22:01:46

DH5_Ant1_High_2480_Peak



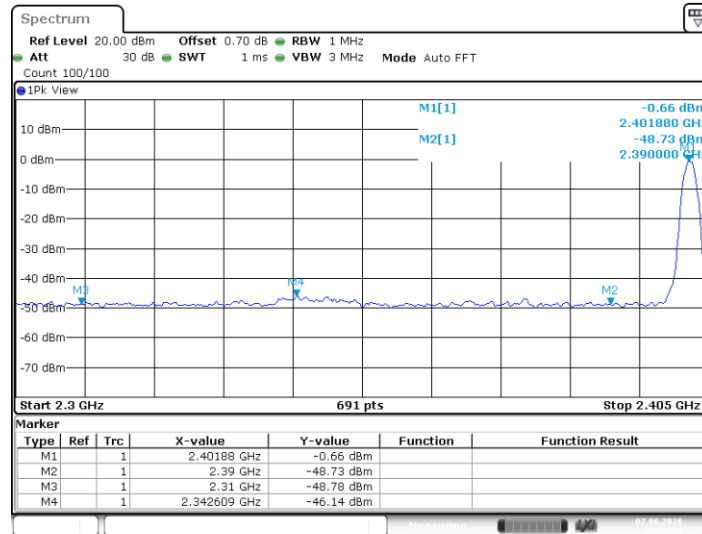
Date: 7.JUN.2026 22:01:30

2DH5_Ant1_Low_2402_AV



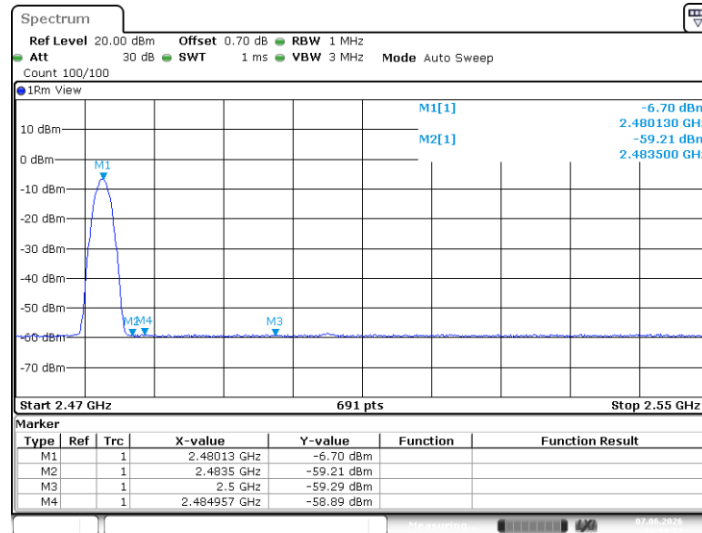
Date: 7.JUN.2026 22:04:54

2DH5_Ant1_Low_2402_Peak



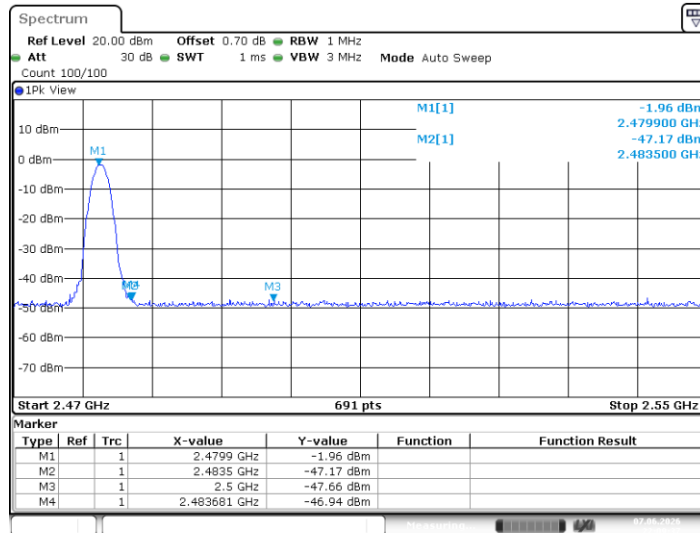
Date: 7.JUN.2026 22:04:39

2DH5_Ant1_High_2480_AV



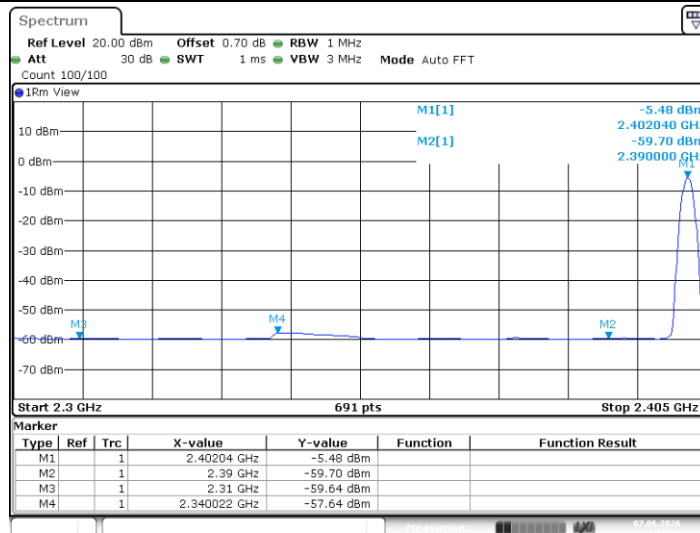
Date: 7.JUN.2026 22:09:52

2DH5_Ant1_High_2480_Peak



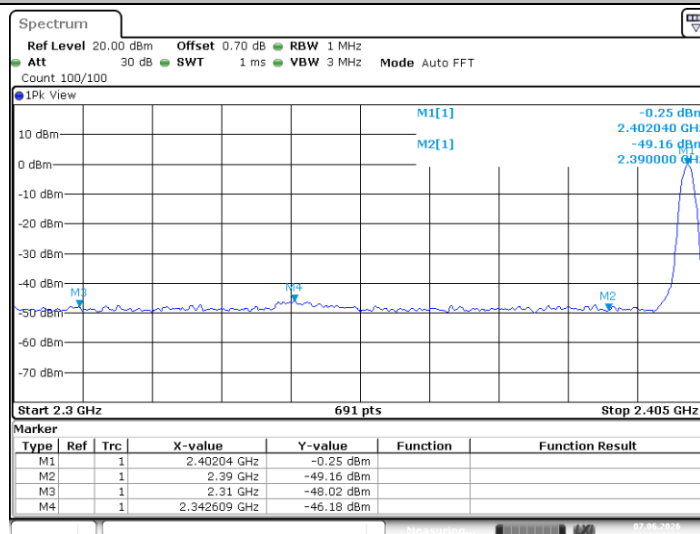
Date: 7.JUN.2026 22:09:37

3DH5_Ant1_Low_2402_AV



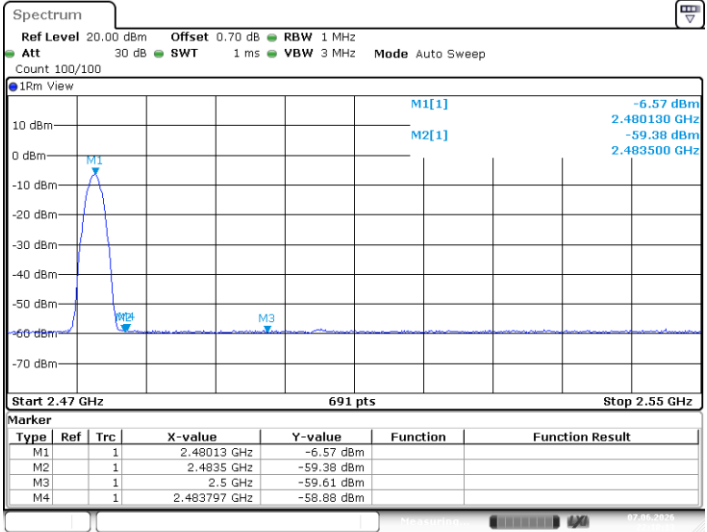
Date: 7.JUN.2026 22:13:17

3DH5_Ant1_Low_2402_Peak



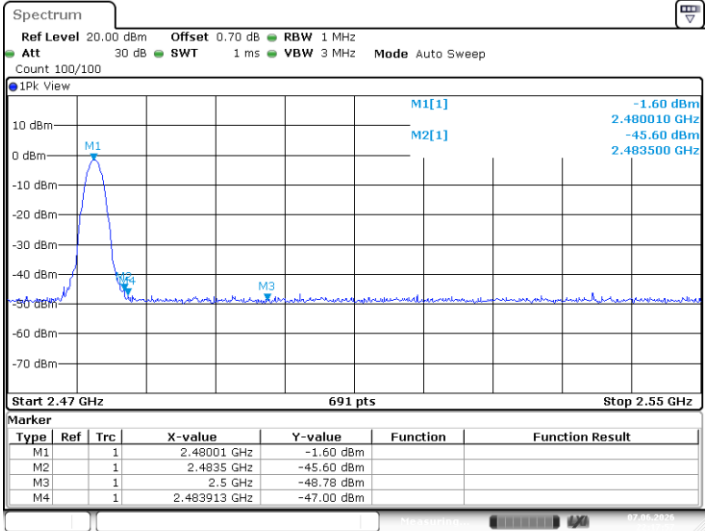
Date: 7.JUN.2026 22:13:02

3DH5_Ant1_High_2480_AV



Date: 7.JUN.2026 22:18:12

3DH5_Ant1_High_2480_Peak



Date: 7.JUN.2026 22:17:57