

FCC Appendix RF Test Data for BT

FCC ID : 2BXYT-A1-B5

Company : Shenzhen Beeblaser Technology Co., Ltd.

EUT : laser show projector

Model Number : A1-B5

Report No. : CTA26060502802

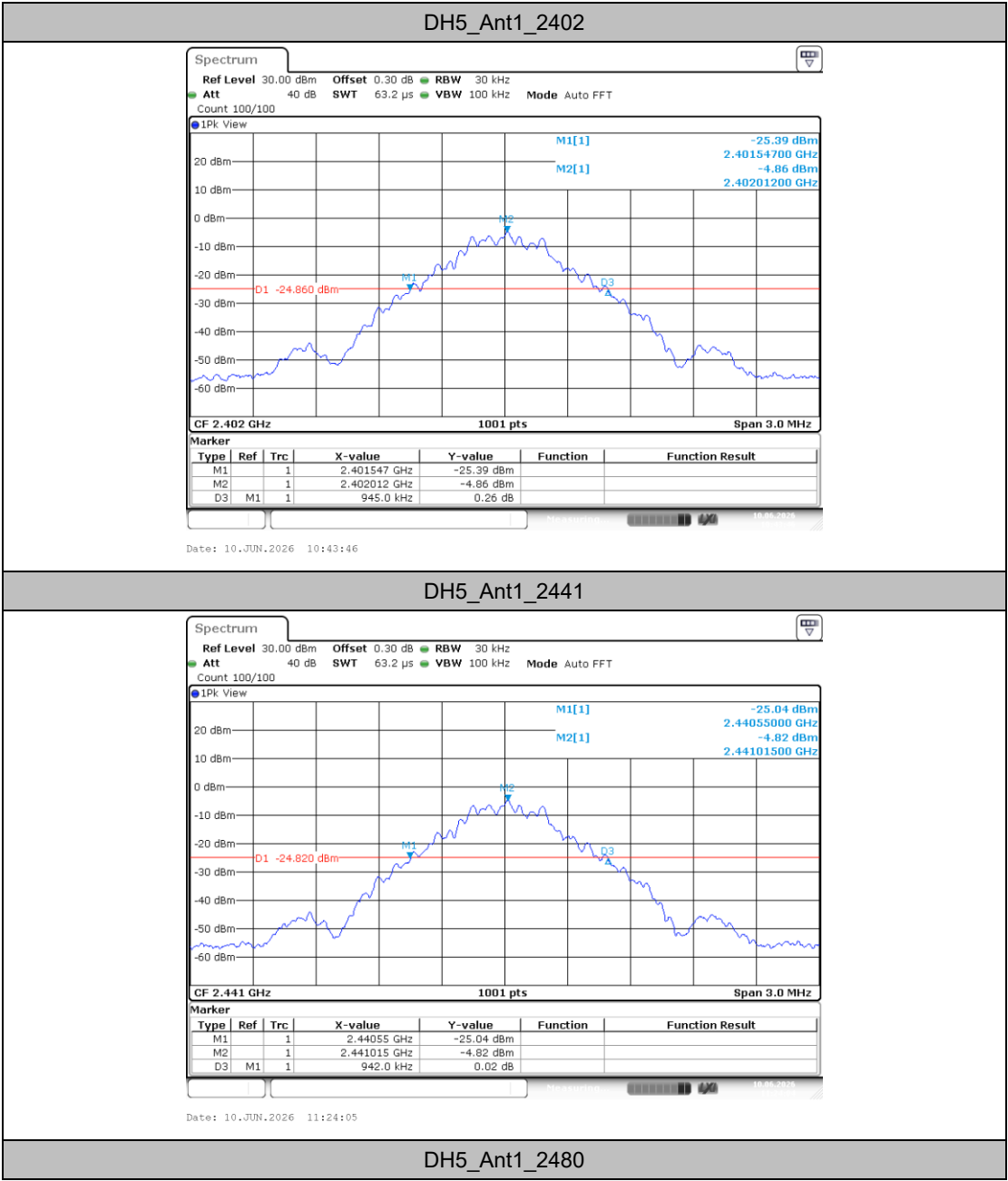
Reviewed By : Eric Wang

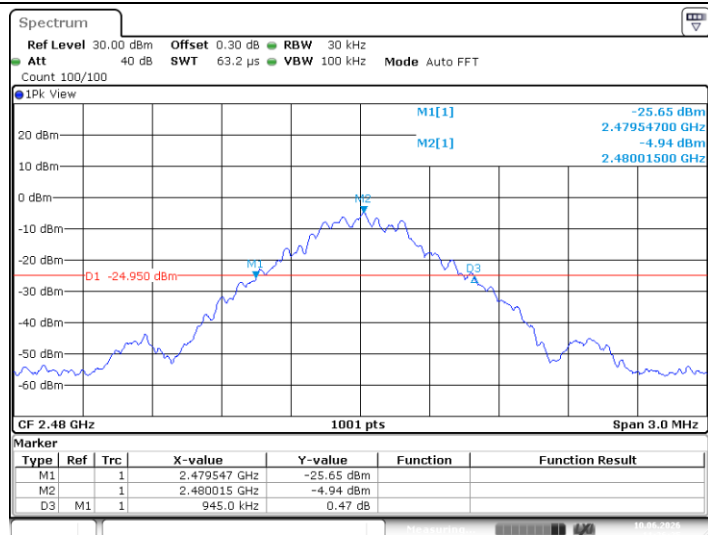
Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.55	2402.49	---	---
		2441	0.94	2440.55	2441.49	---	---
		2480	0.95	2479.55	2480.49	---	---
2DH5	Ant1	2402	1.29	2401.38	2402.67	---	---
		2441	1.32	2440.35	2441.67	---	---
		2480	1.29	2479.38	2480.67	---	---
3DH5	Ant1	2402	1.31	2401.36	2402.67	---	---
		2441	1.29	2440.36	2441.66	---	---
		2480	1.29	2479.37	2480.65	---	---

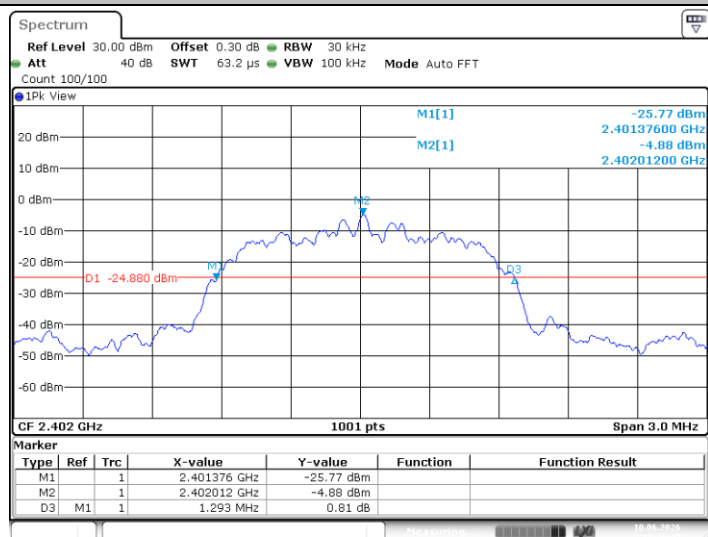
Test Graphs





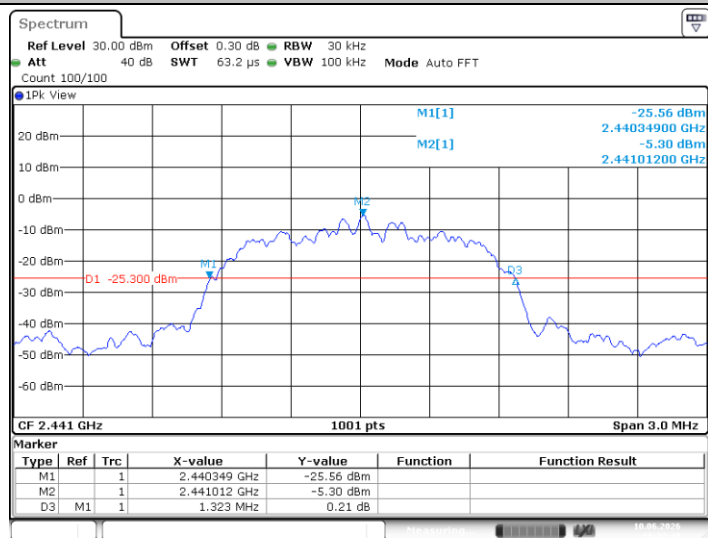
Date: 10.JUN.2026 11:26:25

2DH5_Ant1_2402



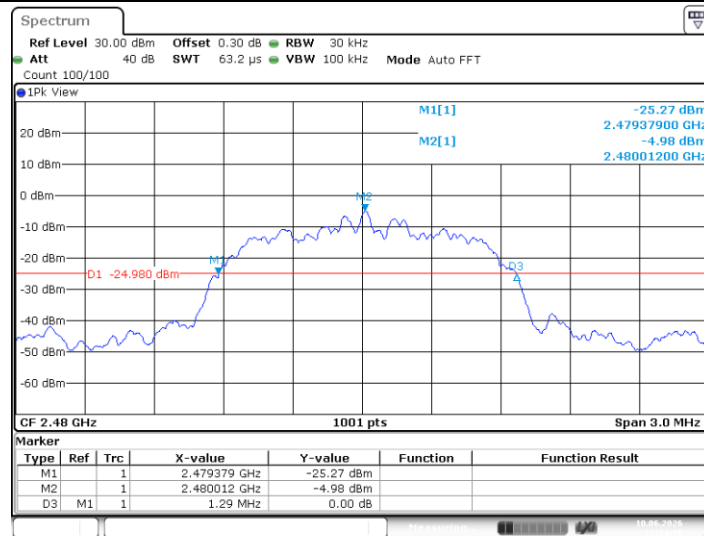
Date: 10.JUN.2026 11:29:42

2DH5_Ant1_2441

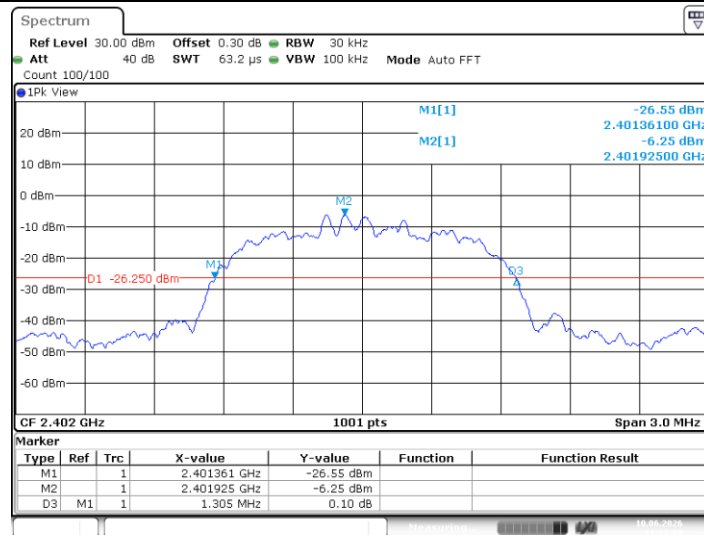


Date: 10.JUN.2026 11:32:48

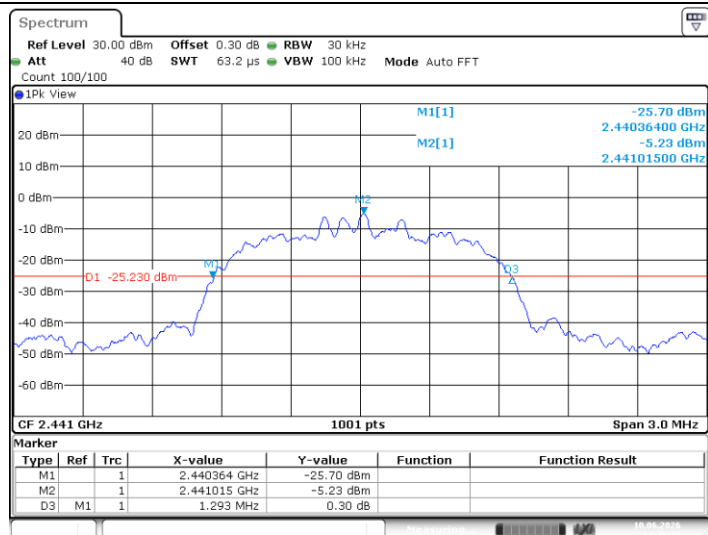
2DH5_Ant1_2480



3DH5_Ant1_2402

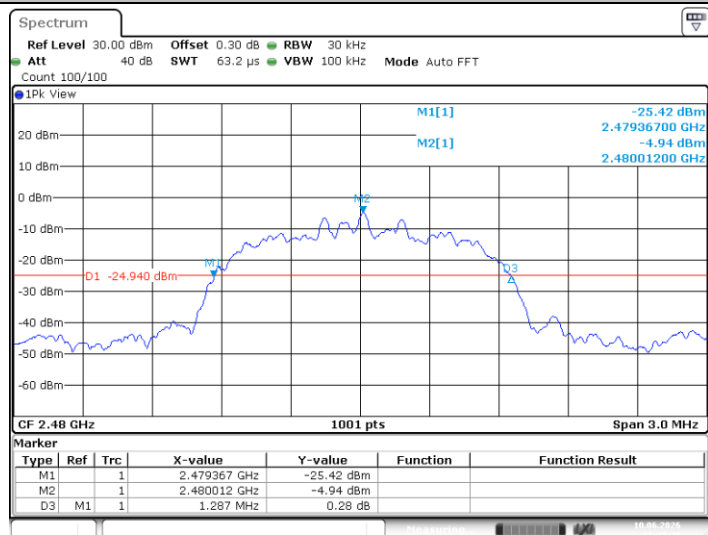


3DH5_Ant1_2441



Date: 10.JUN.2026 11:41:13

3DH5_Ant1_2480



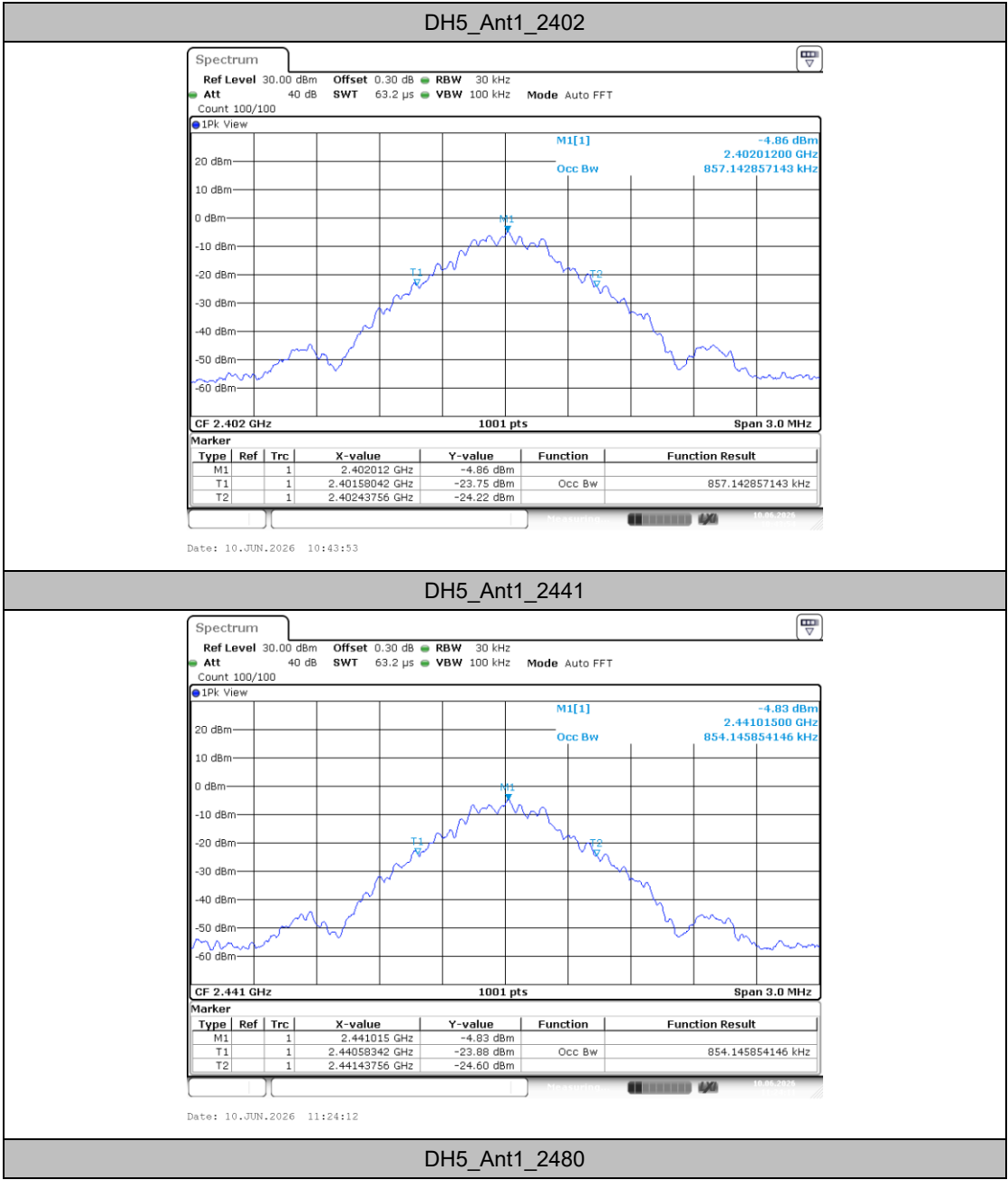
Date: 10.JUN.2026 11:43:21

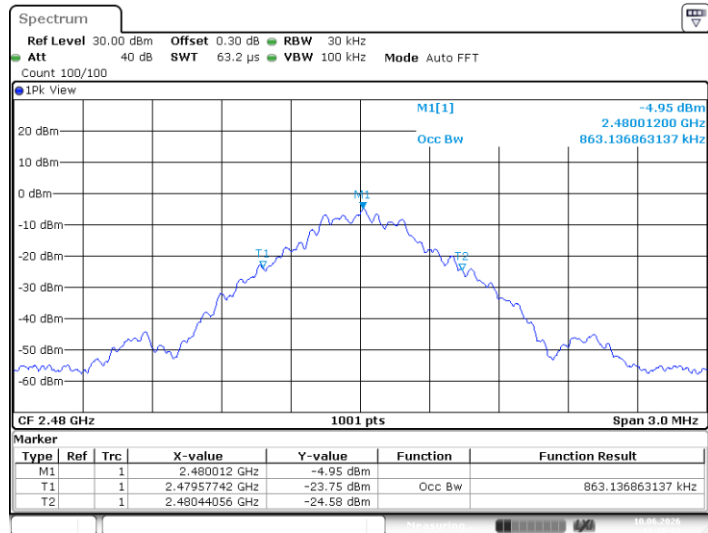
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85714	2401.5804	2402.4376	---	---
		2441	0.85415	2440.5834	2441.4376	---	---
		2480	0.86314	2479.5774	2480.4406	---	---
2DH5	Ant1	2402	1.1778	2401.4216	2402.5994	---	---
		2441	1.1748	2440.4216	2441.5964	---	---
		2480	1.1808	2479.4216	2480.6024	---	---
3DH5	Ant1	2402	1.1718	2401.4276	2402.5994	---	---
		2441	1.1688	2440.4276	2441.5964	---	---
		2480	1.1748	2479.4246	2480.5994	---	---

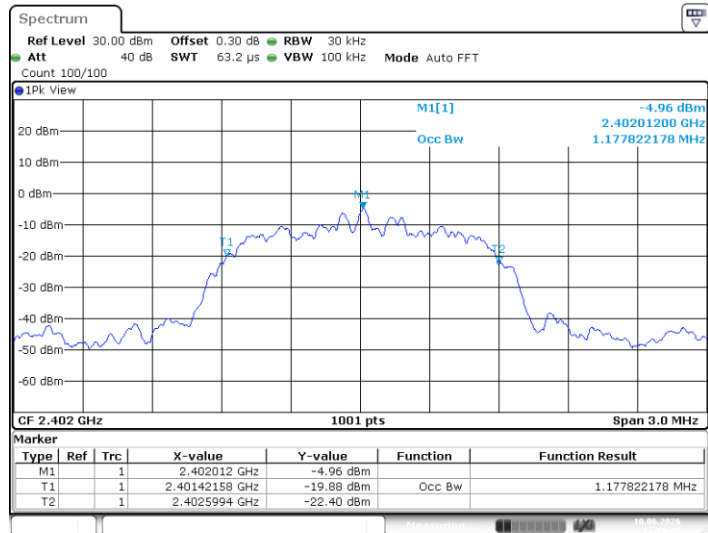
Test Graphs





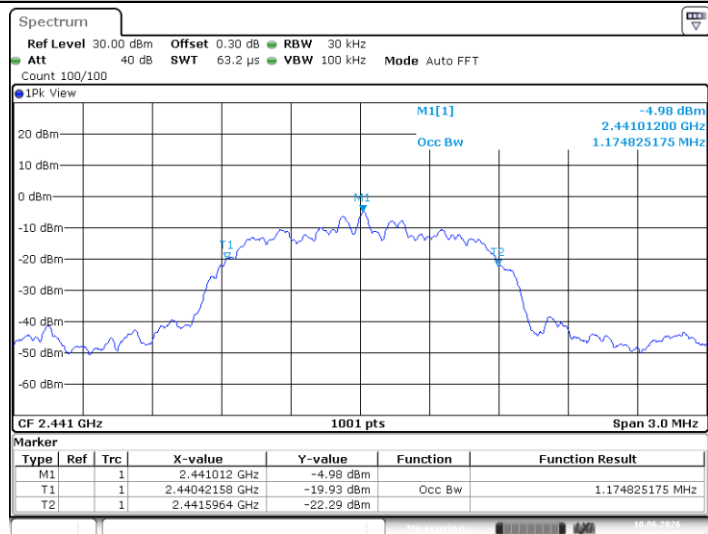
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2DH5_Ant1_2402



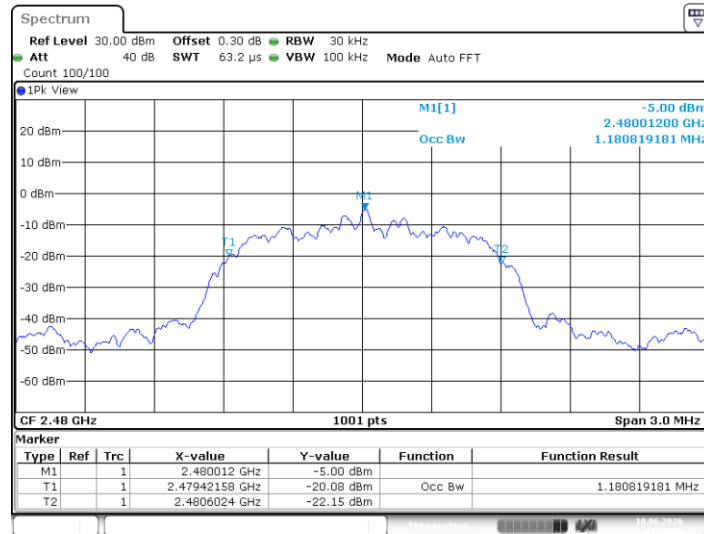
Date: 10.JUN.2026 11:29:48

2DH5_Ant1_2441

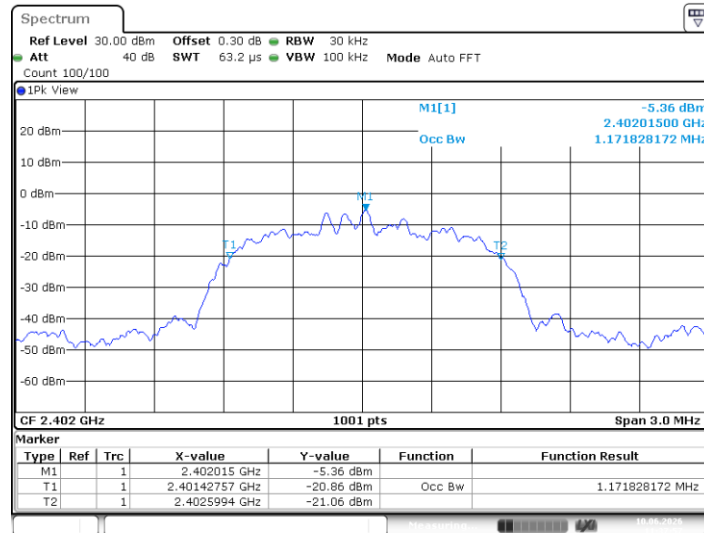


Date: 10.JUN.2026 11:32:55

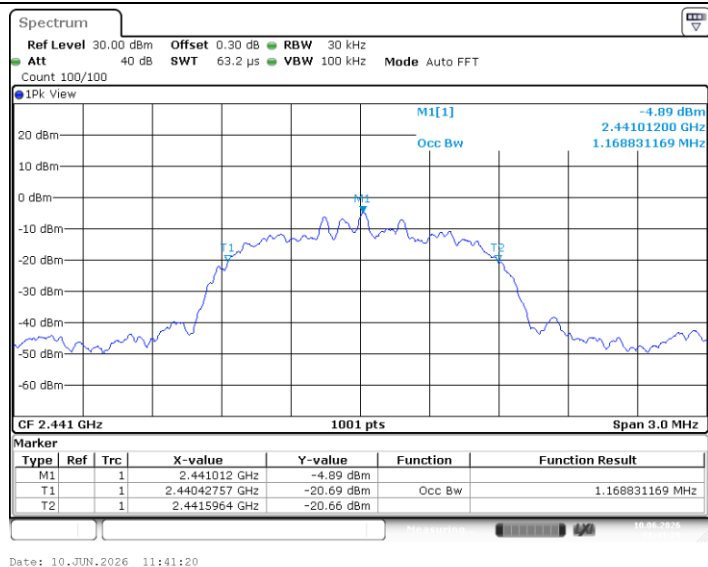
2DH5_Ant1_2480



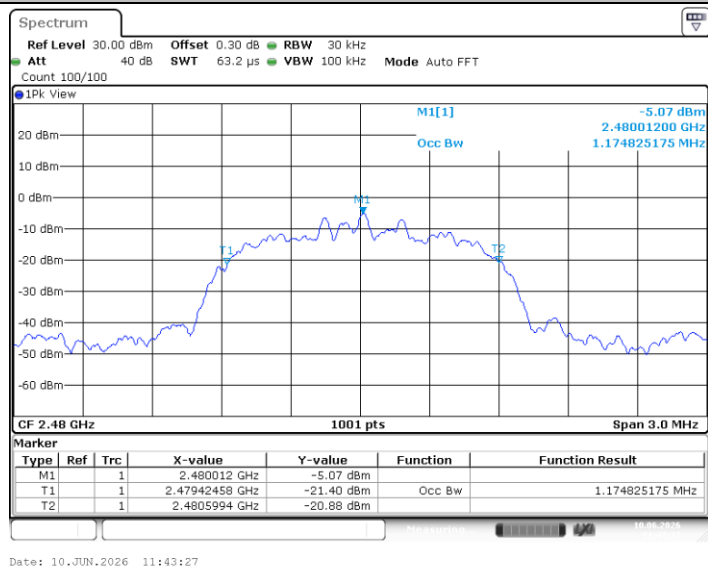
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

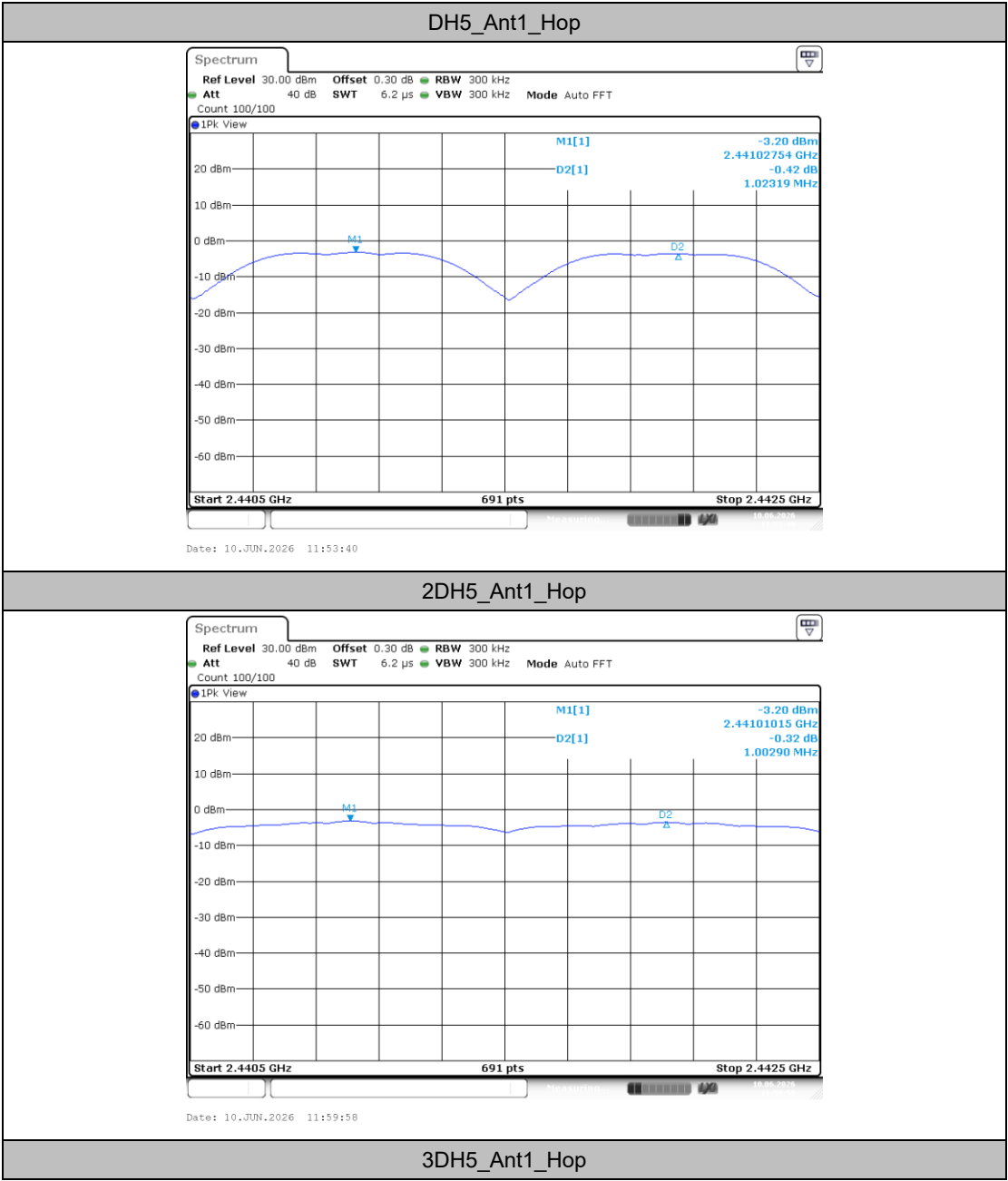
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.00	≤20.97	PASS
		2441	-3.06	≤20.97	PASS
		2480	-3.10	≤20.97	PASS
2DH5	Ant1	2402	-0.72	≤20.97	PASS
		2441	-0.66	≤20.97	PASS
		2480	-1.09	≤20.97	PASS
3DH5	Ant1	2402	-0.31	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	-0.65	≤20.97	PASS

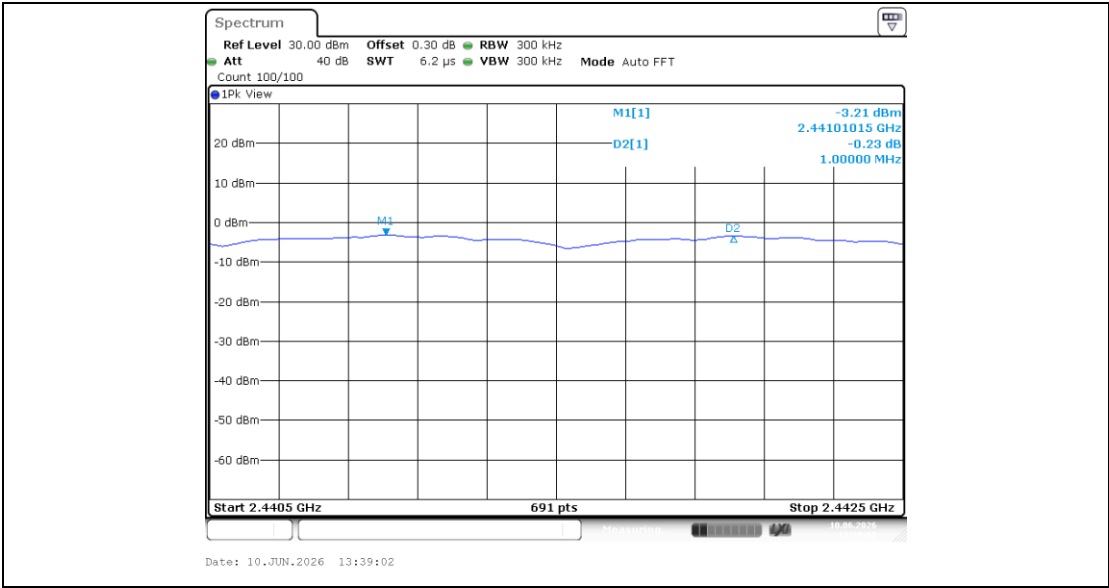
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.023	≥ 0.950	PASS
2DH5	Ant1	Hop	1.003	≥ 0.880	PASS
3DH5	Ant1	Hop	1.0	≥ 0.873	PASS

Test Graphs



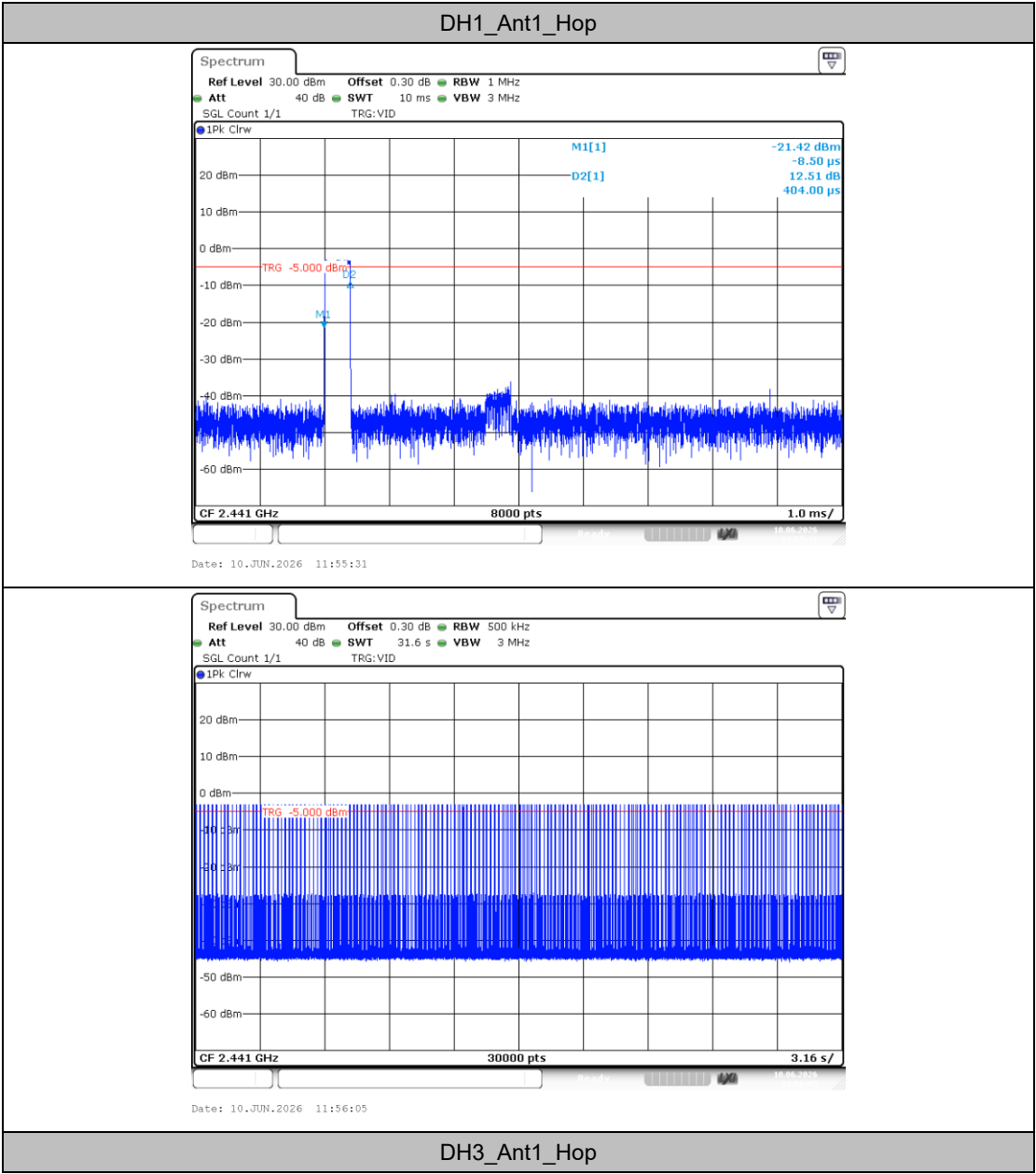


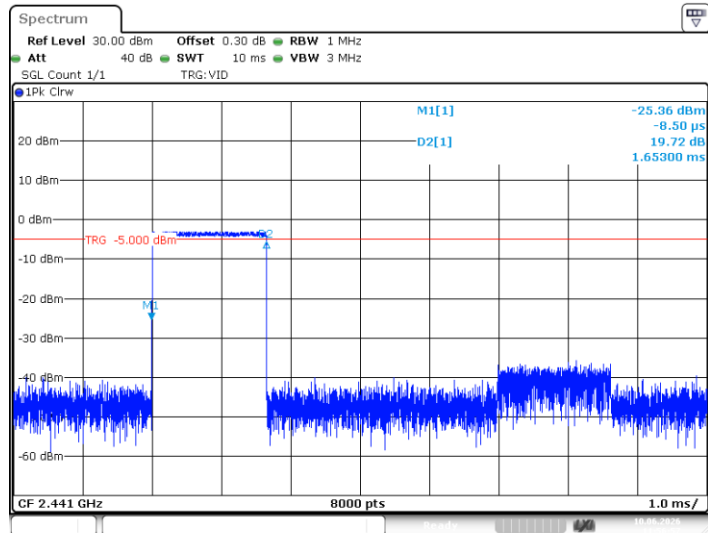
Appendix E: Time of occupancy

Test Result

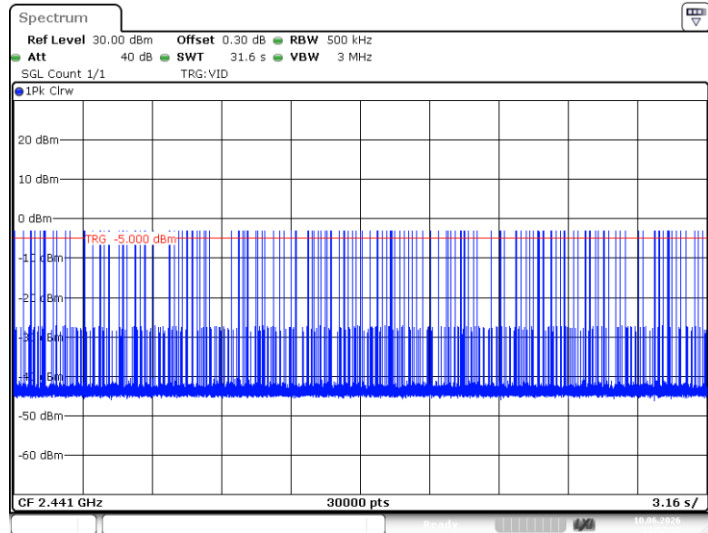
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.404	318	0.128	≤0.4	PASS
DH3	Ant1	Hop	1.653	159	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.893	110	0.318	≤0.4	PASS
2DH1	Ant1	Hop	0.413	315	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.658	181	0.3	≤0.4	PASS
2DH5	Ant1	Hop	2.898	111	0.322	≤0.4	PASS
3DH1	Ant1	Hop	0.413	319	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.654	161	0.266	≤0.4	PASS
3DH5	Ant1	Hop	2.899	100	0.29	≤0.4	PASS

Test Graphs



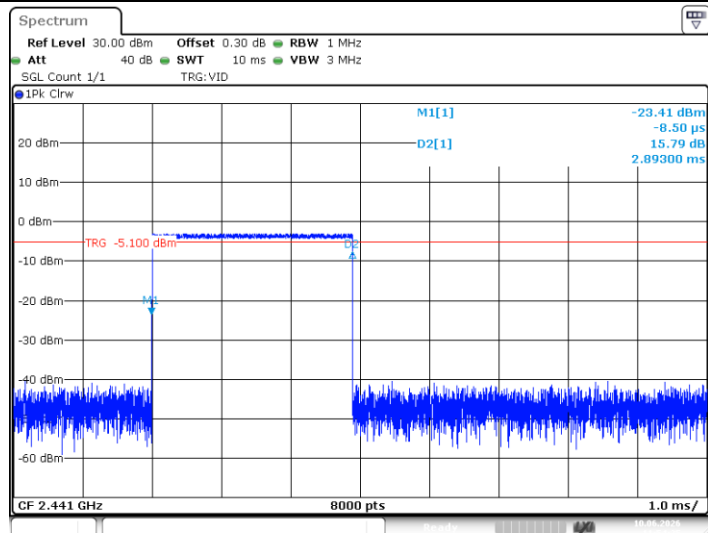


Date: 10.JUN.2026 11:56:57

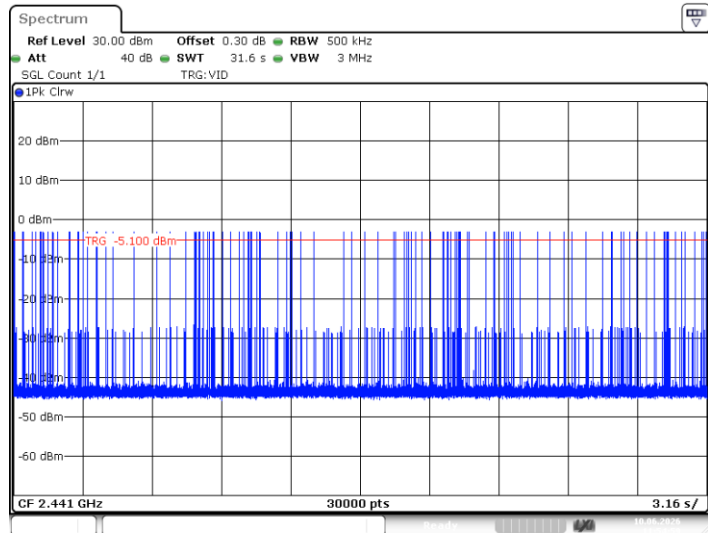


Date: 10.JUN.2026 11:57:31

DH5_Ant1_Hop

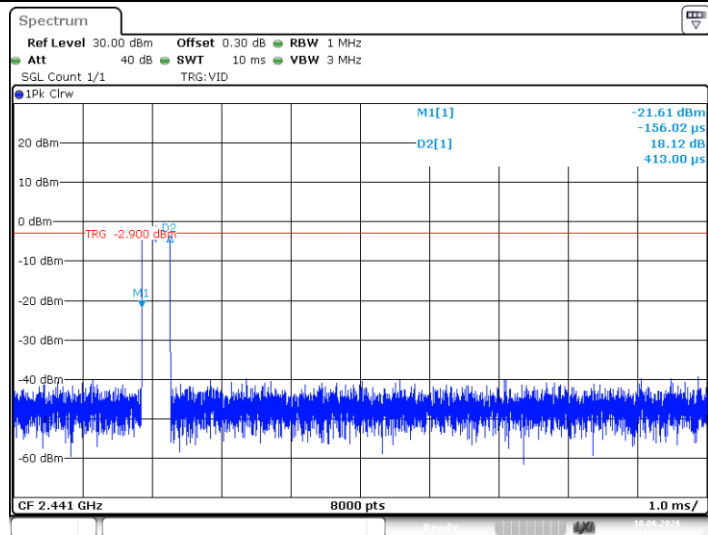


Date: 10.JUN.2026 11:54:25

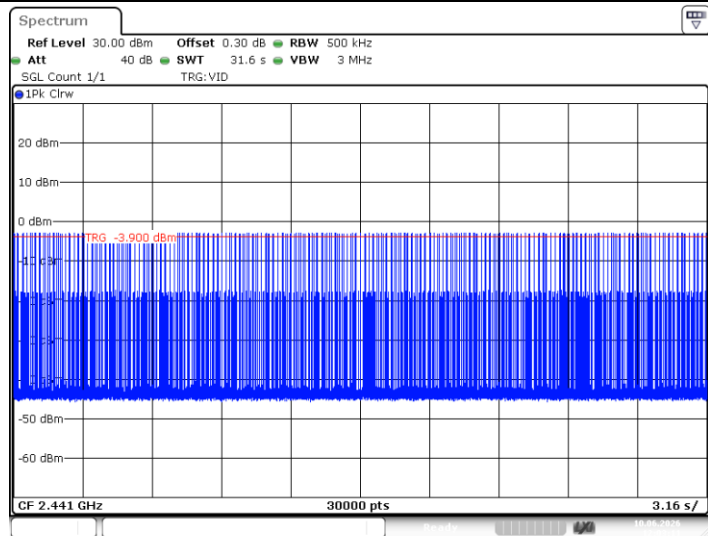


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2DH1_Ant1_Hop

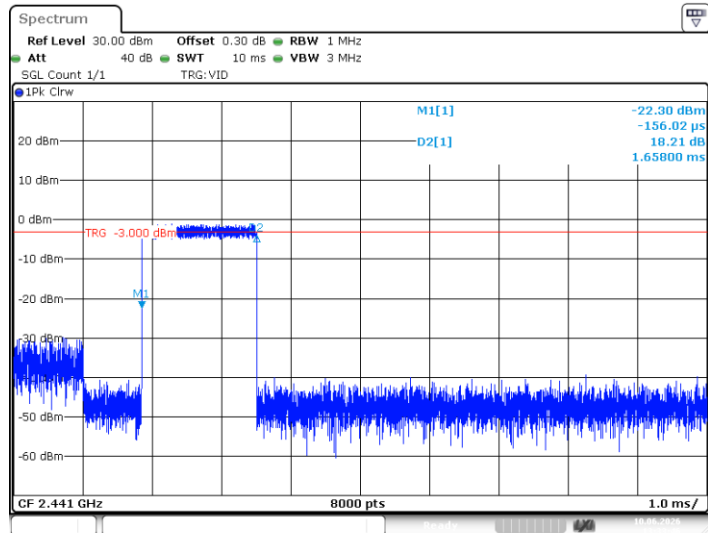


Date: 10.JUN.2026 12:02:31

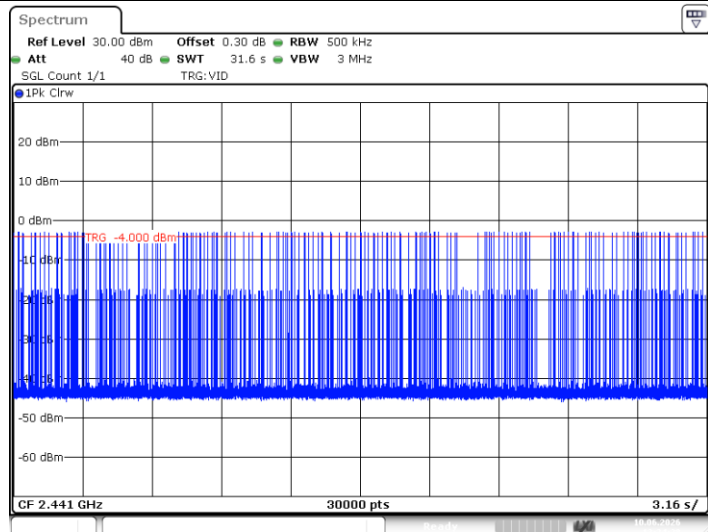


Date: 10.JUN.2026 12:03:11

2DH3_Ant1_Hop

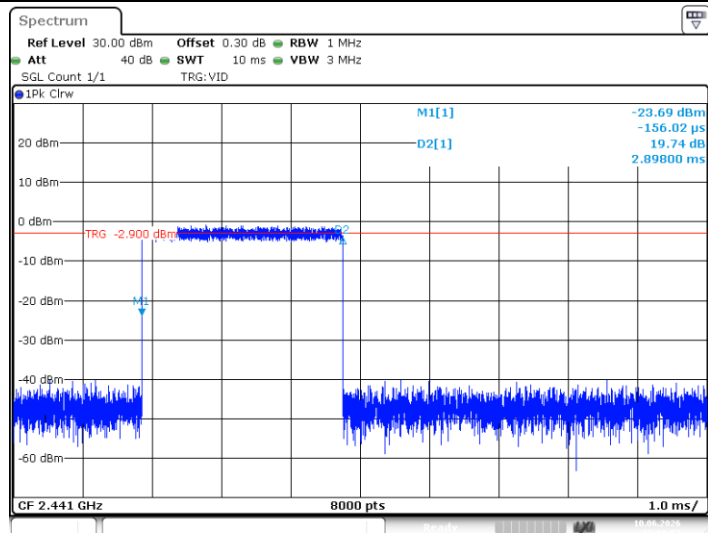


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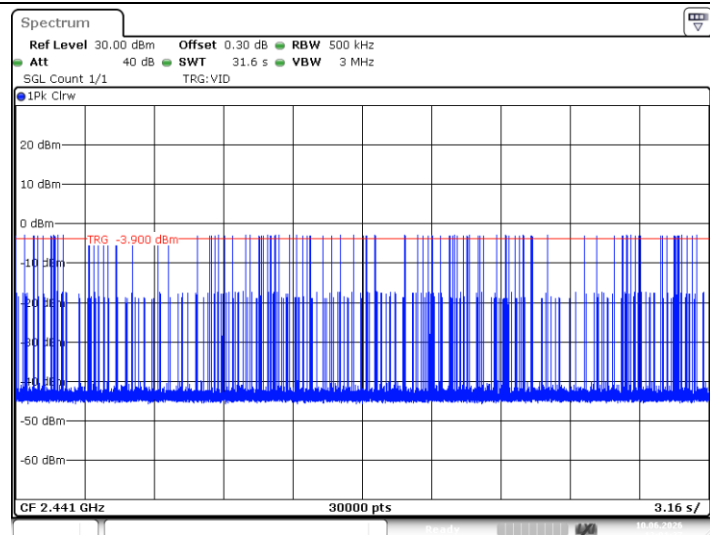


Date: 10.JUN.2026 13:34:27

2DH5_Ant1_Hop

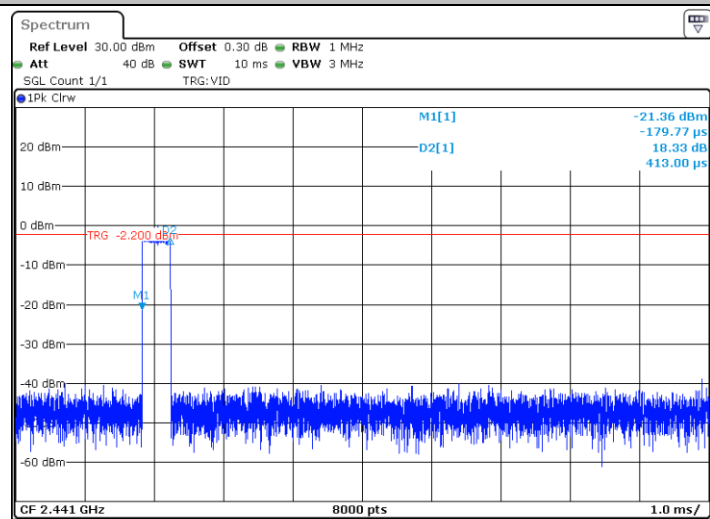


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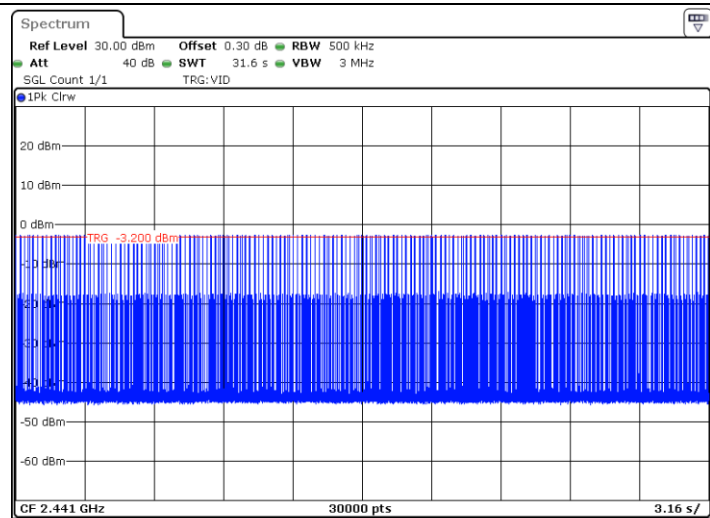


Date: 10.JUN.2026 12:01:37

3DH1_Ant1_Hop

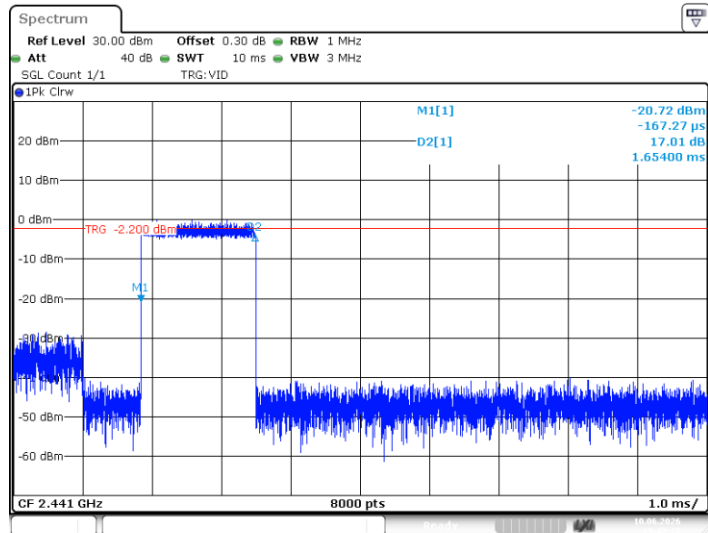


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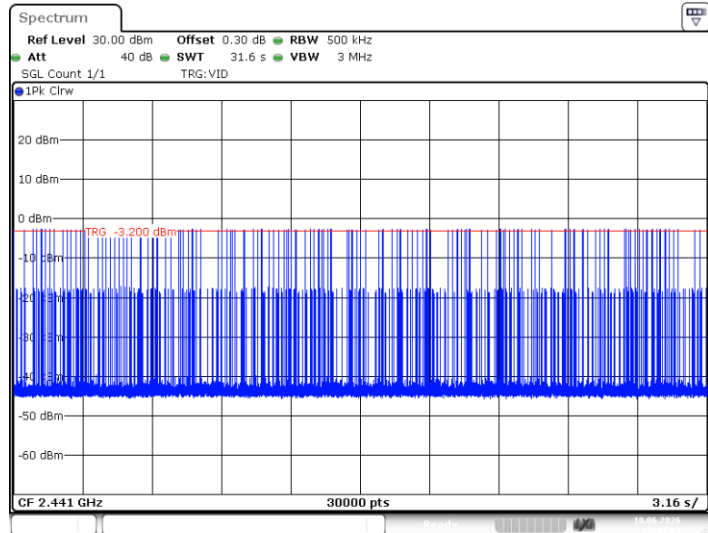


Date: 10.JUN.2026 13:41:43

3DH3_Ant1_Hop

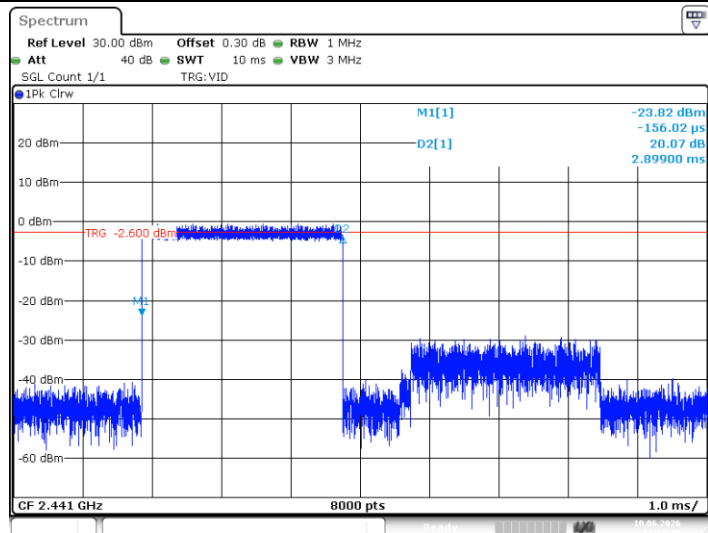


Date: 10.JUN.2026 13:42:29

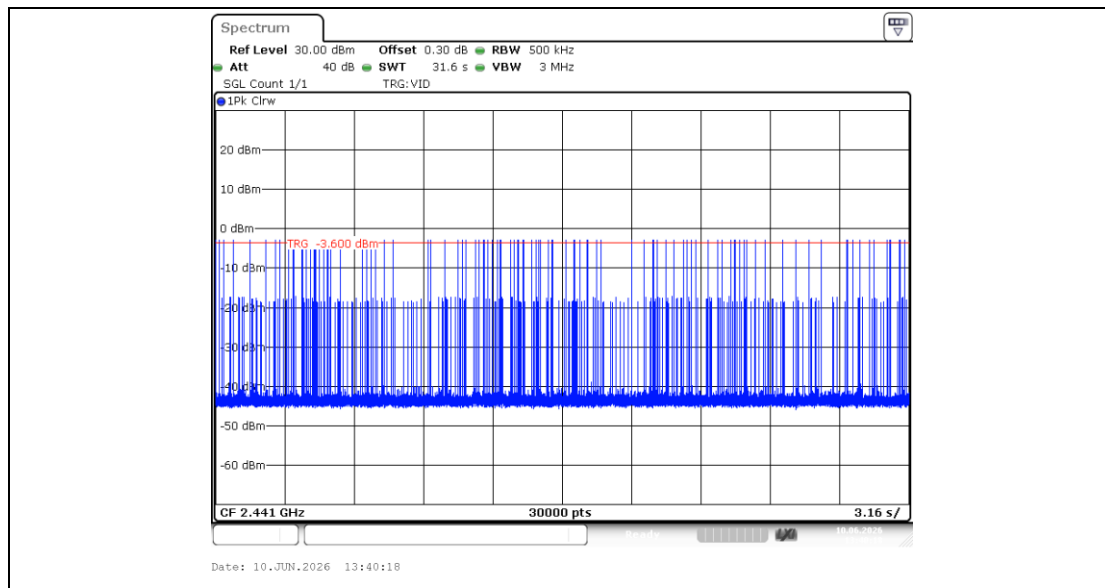


Date: 10.JUN.2026 13:43:09

3DH5_Ant1_Hop



Date: 10.JUN.2026 13:39:38

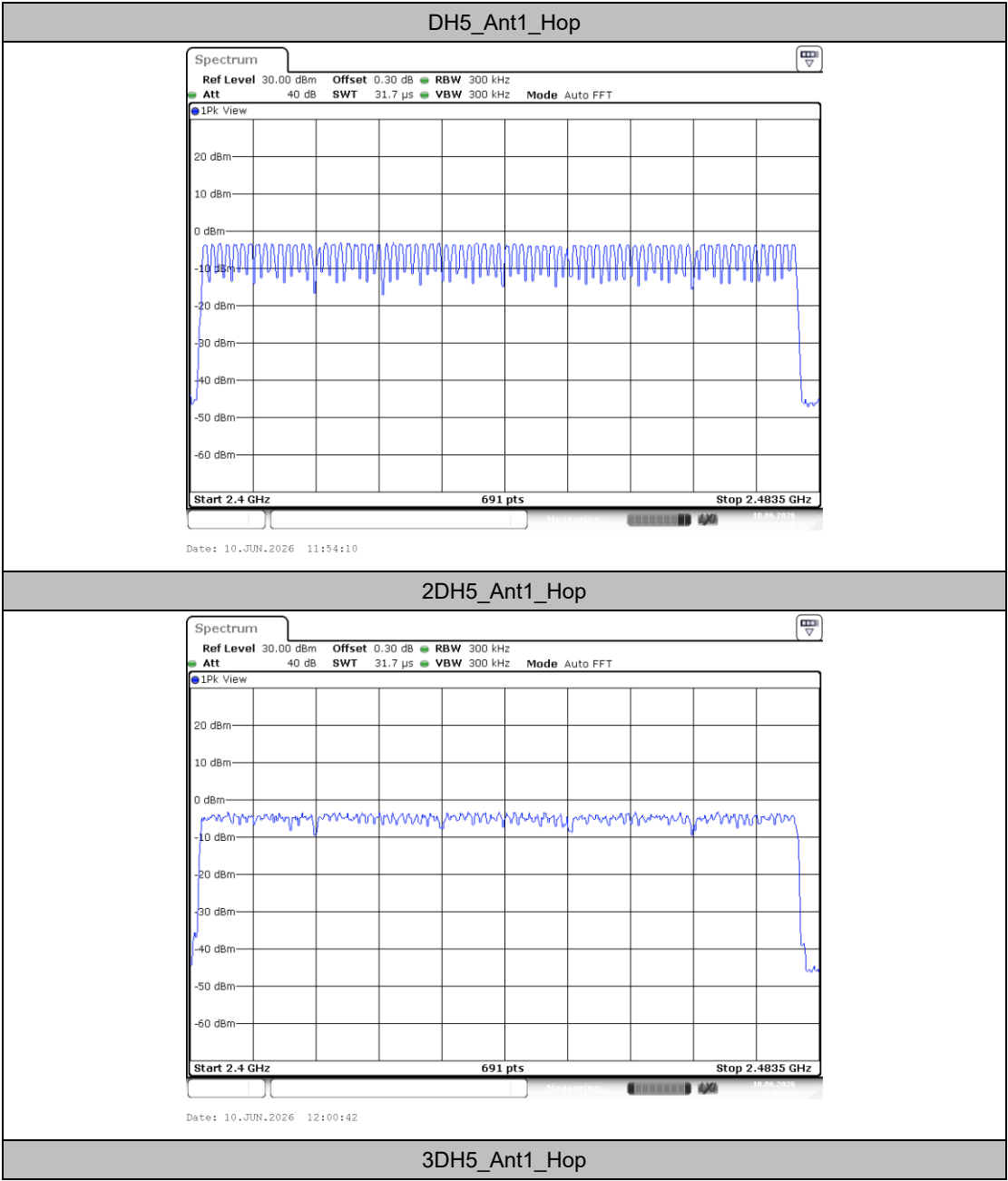


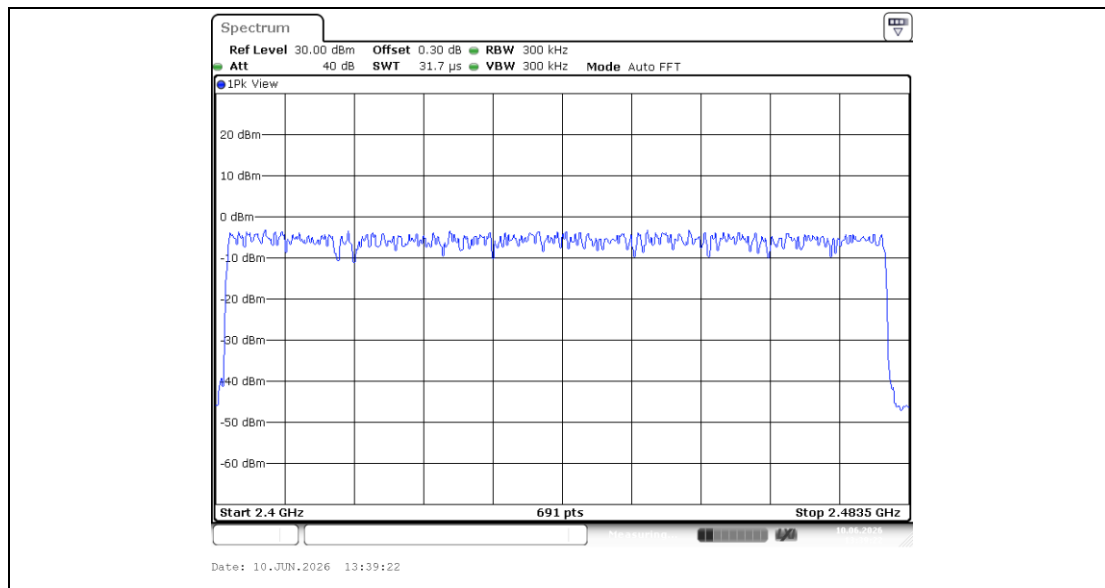
Appendix F: Number of hopping channels

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



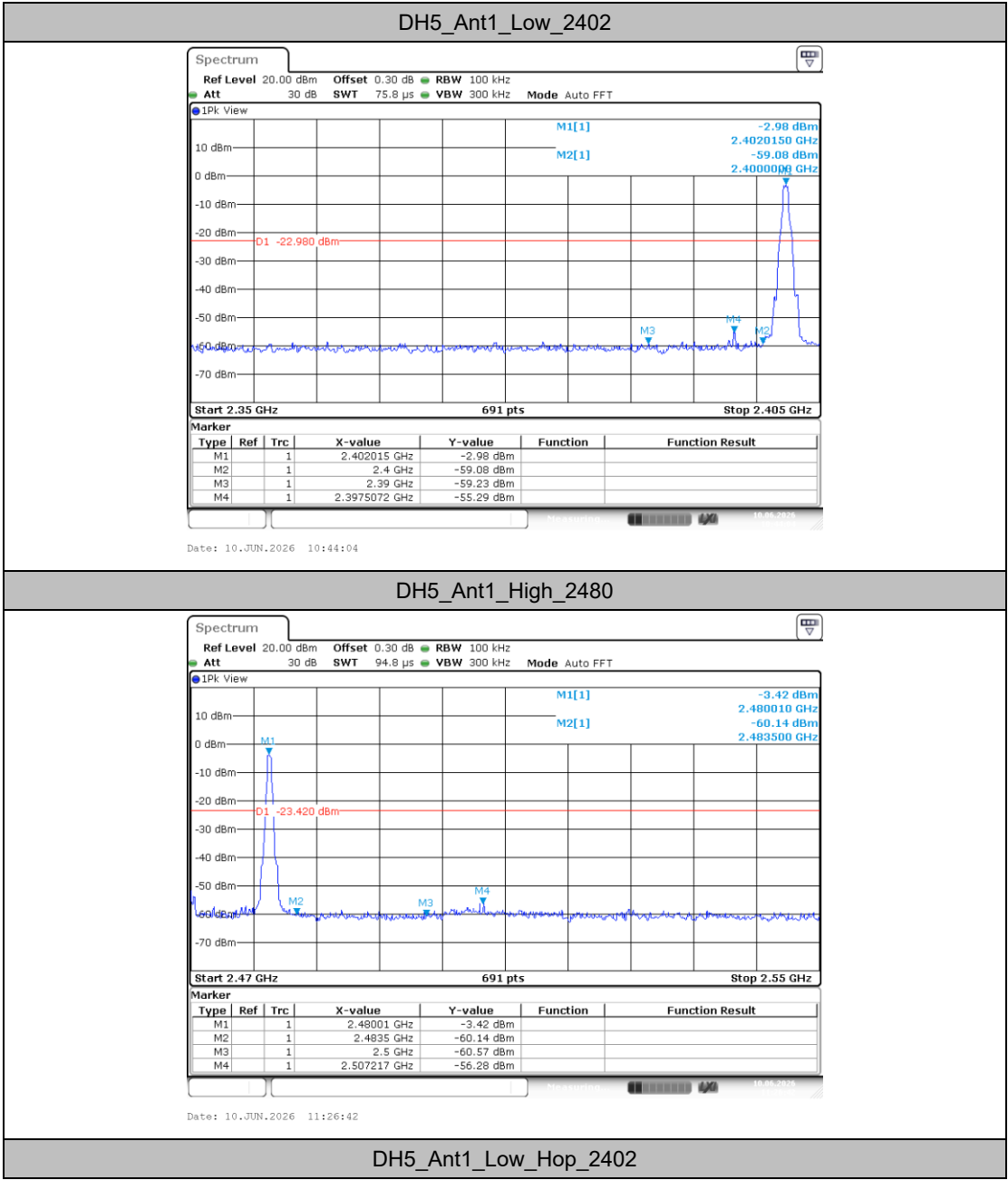


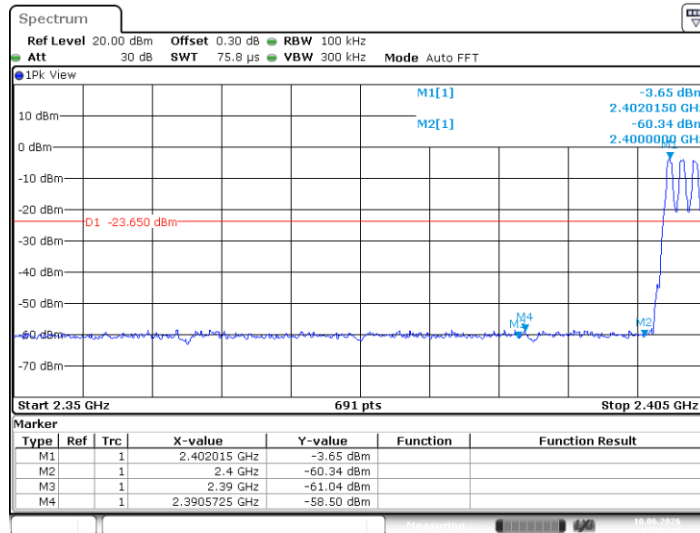
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.98	-55.29	≤-22.98	PASS
		High	2480	-3.42	-56.28	≤-23.42	PASS
		Low	Hop_2402	-3.65	-58.5	≤-23.65	PASS
		High	Hop_2480	-3.84	-56.91	≤-23.84	PASS
2DH5	Ant1	Low	2402	-3.91	-58.15	≤-23.91	PASS
		High	2480	-4.11	-56.62	≤-24.11	PASS
		Low	Hop_2402	-3.21	-58.03	≤-23.21	PASS
		High	Hop_2480	-4.12	-48.81	≤-24.12	PASS
3DH5	Ant1	Low	2402	-3.03	-55.8	≤-23.03	PASS
		High	2480	-3.36	-57.37	≤-23.36	PASS
		Low	Hop_2402	-5.59	-58.51	≤-25.59	PASS
		High	Hop_2480	-3.27	-47.82	≤-23.27	PASS

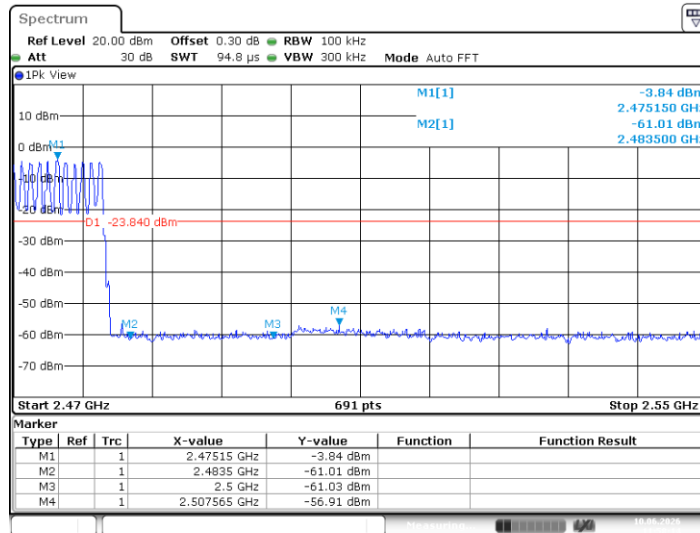
Test Graphs





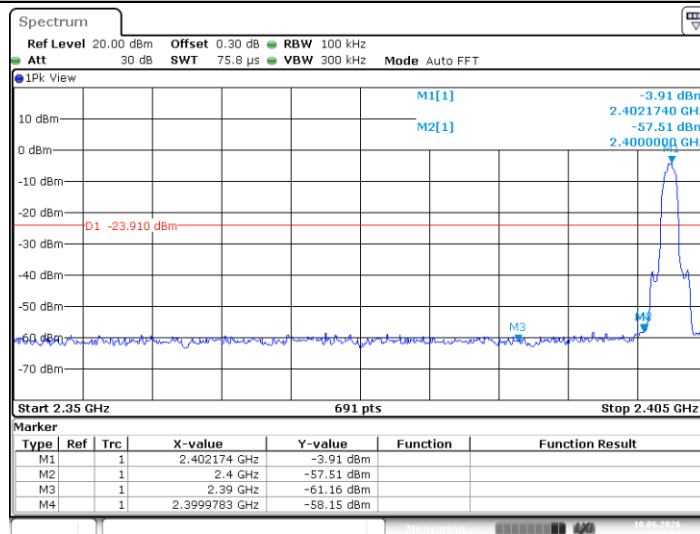
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DH5_Ant1_High_Hop_2480



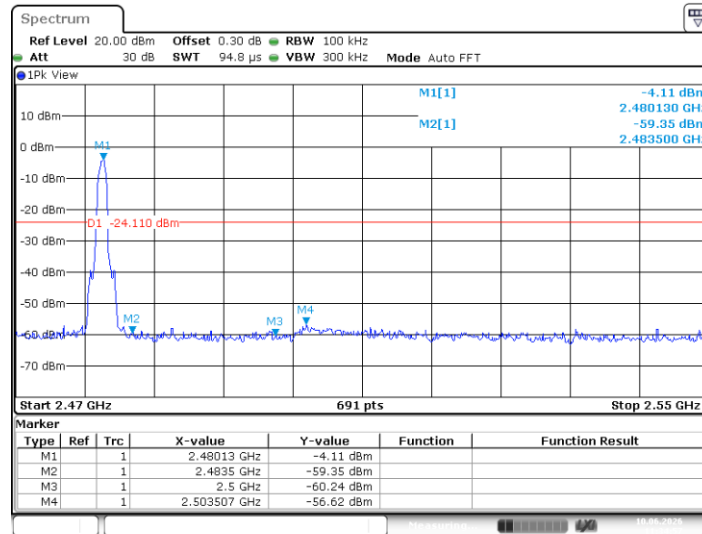
Date: 10.JUN.2026 11:58:15

2DH5_Ant1_Low_2402



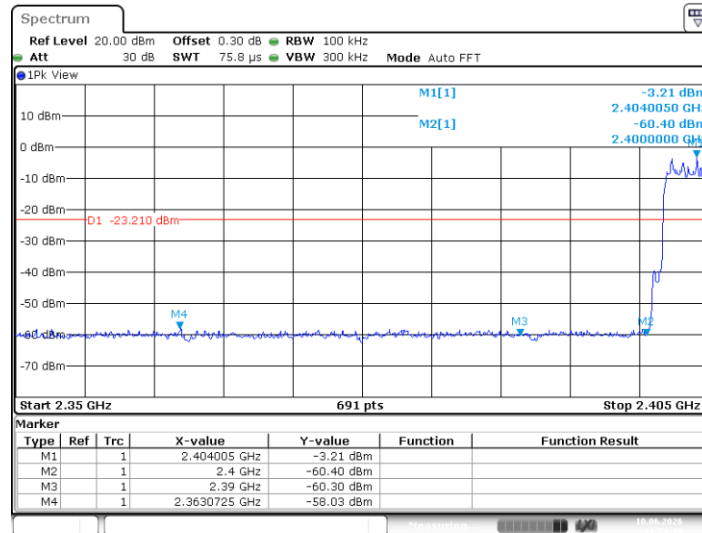
Date: 10.JUN.2026 11:29:58

2DH5_Ant1_High_2480



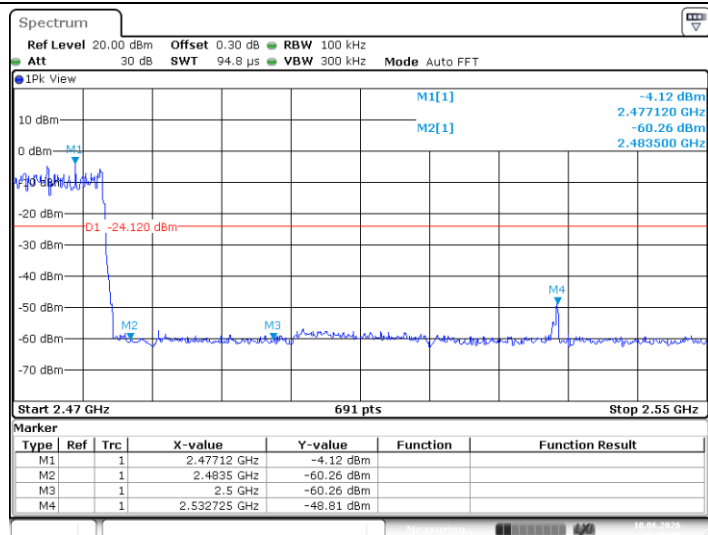
Date: 10.JUN.2026 11:34:56

2DH5_Ant1_Low_Hop_2402



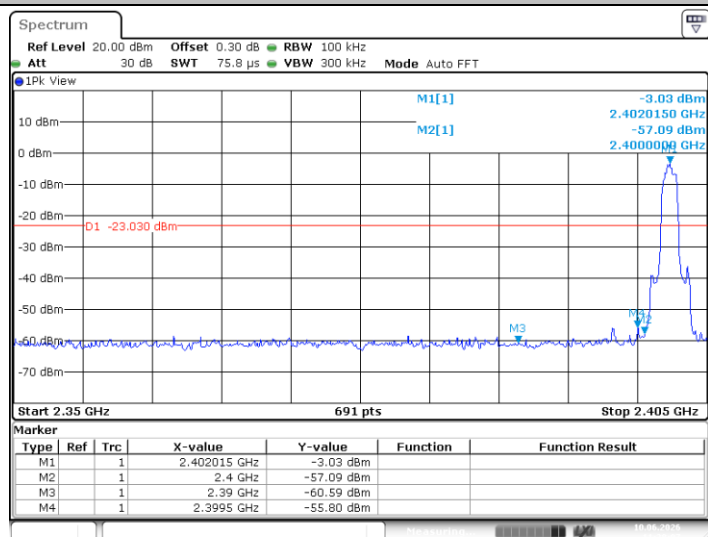
Date: 10.JUN.2026 11:59:19

2DH5_Ant1_High_Hop_2480



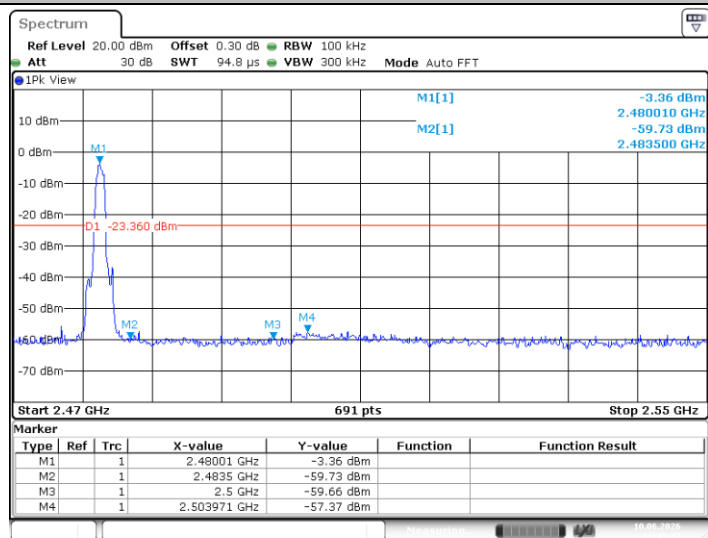
Date: 10.JUN.2026 13:38:05

3DH5_Ant1_Low_2402



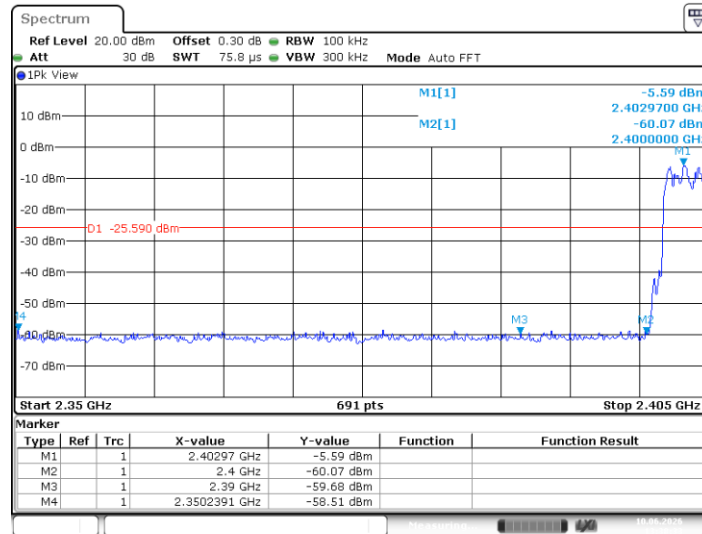
Date: 10.JUN.2026 11:38:07

3DH5_Ant1_High_2480



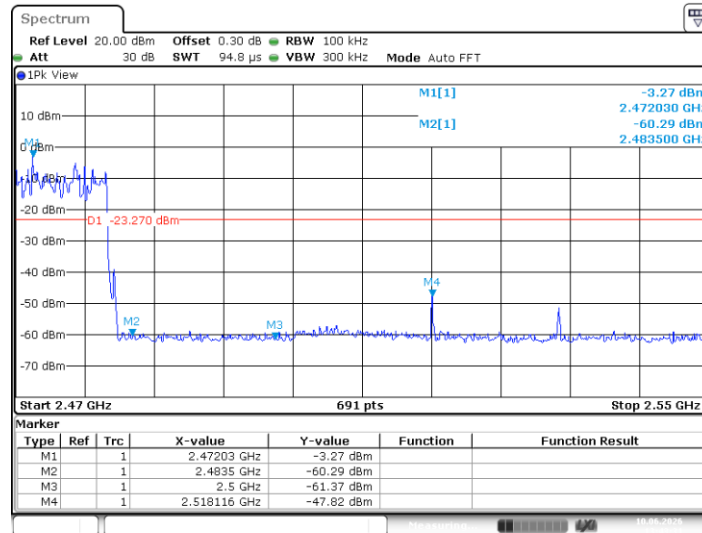
Date: 10.JUN.2026 11:43:37

3DH5_Ant1_Low_Hop_2402



Date: 10.JUN.2026 13:38:33

3DH5_Ant1_High_Hop_2480



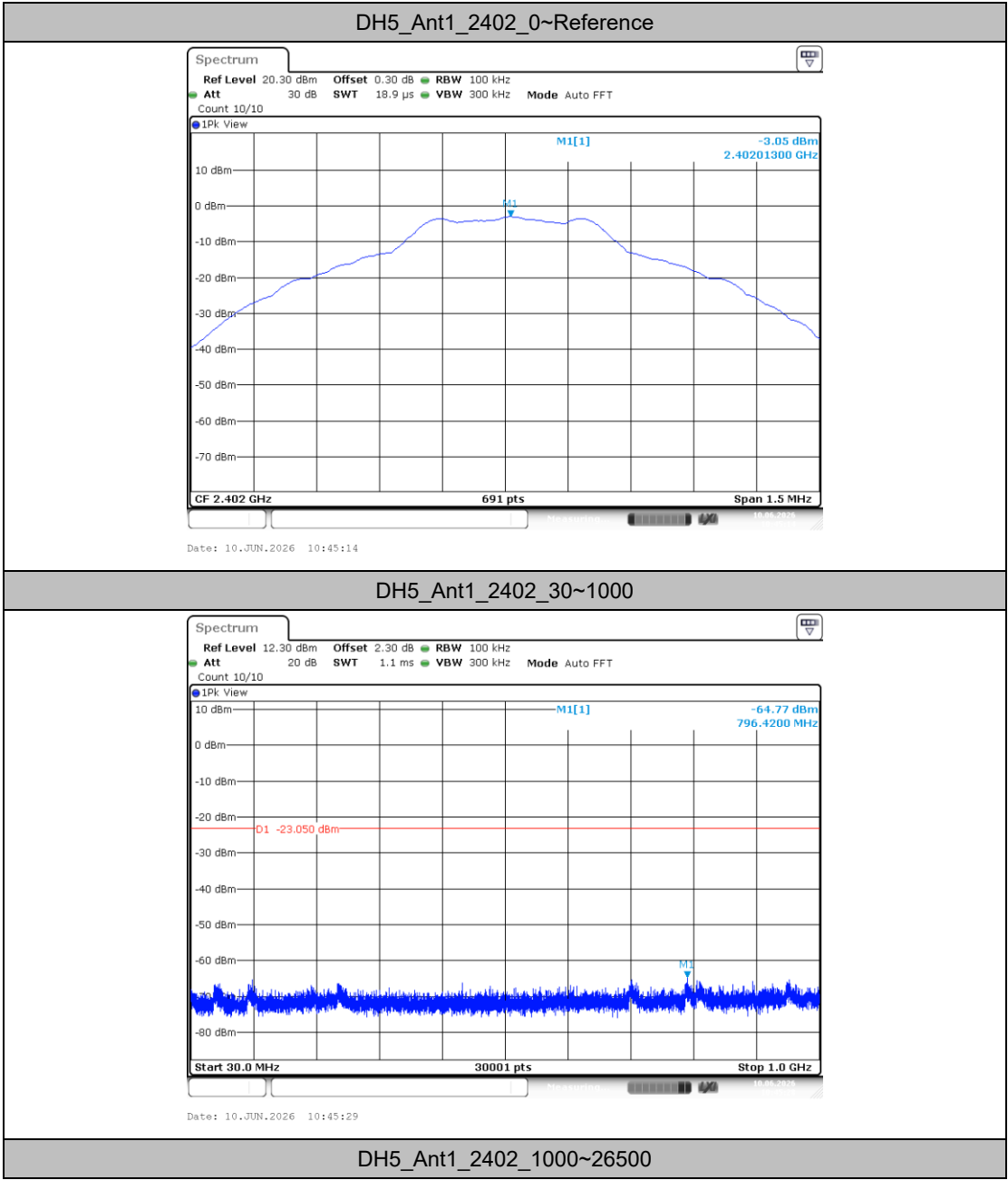
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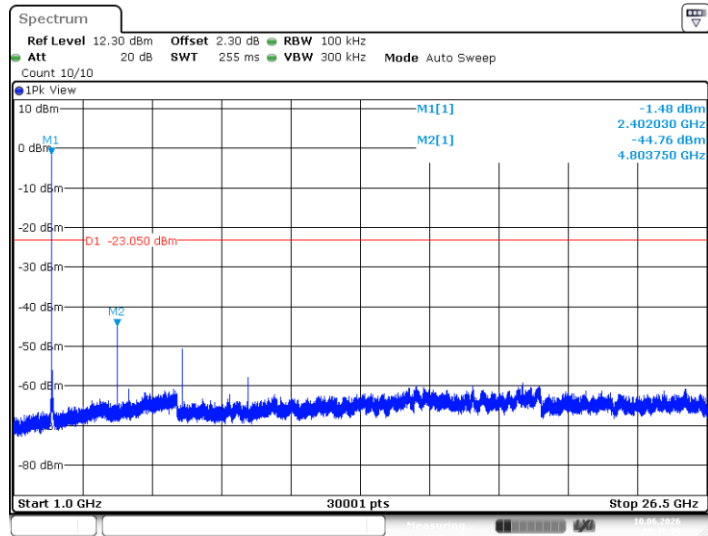
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.05	-3.05	---	PASS
			30~1000	-3.05	-64.77	≤-23.05	PASS
			1000~26500	-3.05	-44.76	≤-23.05	PASS
		2441	Reference	-3.16	-3.16	---	PASS
			30~1000	-3.16	-65.06	≤-23.16	PASS
			1000~26500	-3.16	-44.71	≤-23.16	PASS
		2480	Reference	-3.37	-3.37	---	PASS
			30~1000	-3.37	-63.95	≤-23.37	PASS
			1000~26500	-3.37	-45.41	≤-23.37	PASS
2DH5	Ant1	2402	Reference	-3.08	-3.08	---	PASS
			30~1000	-3.08	-64.46	≤-23.08	PASS
			1000~26500	-3.08	-46.48	≤-23.08	PASS
		2441	Reference	-3.20	-3.20	---	PASS
			30~1000	-3.20	-64.28	≤-23.2	PASS
			1000~26500	-3.20	-44.67	≤-23.2	PASS
		2480	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-64.74	≤-23.39	PASS
			1000~26500	-3.39	-46.25	≤-23.39	PASS
3DH5	Ant1	2402	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-65.9	≤-23.11	PASS
			1000~26500	-3.11	-42.95	≤-23.11	PASS
		2441	Reference	-3.19	-3.19	---	PASS
			30~1000	-3.19	-64.94	≤-23.19	PASS
			1000~26500	-3.19	-45.48	≤-23.19	PASS
		2480	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-63.73	≤-23.39	PASS
			1000~26500	-3.39	-45.66	≤-23.39	PASS

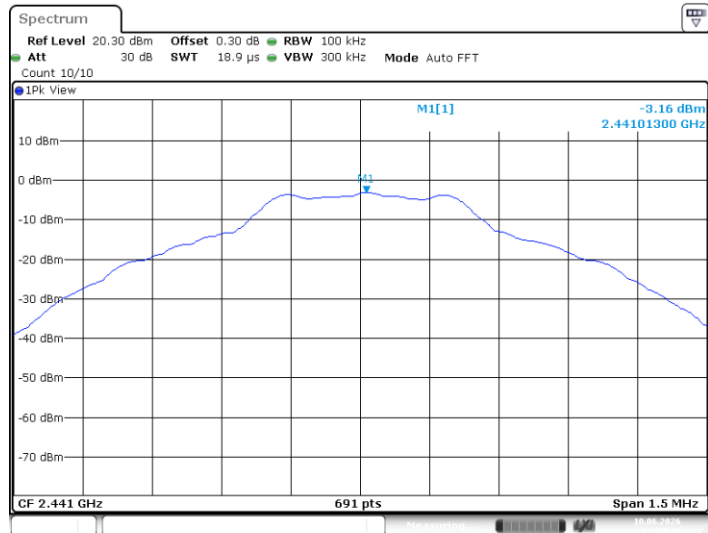
Test Graphs





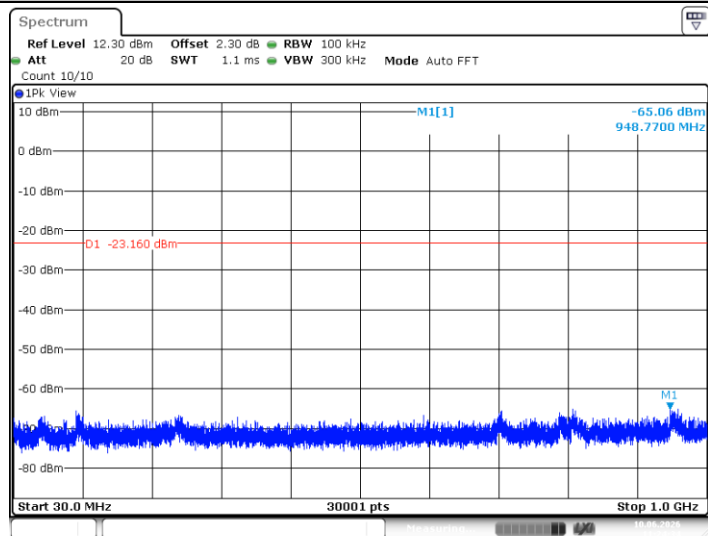
Date: 10.JUN.2026 10:46:06

DH5_Ant1_2441_0~Reference



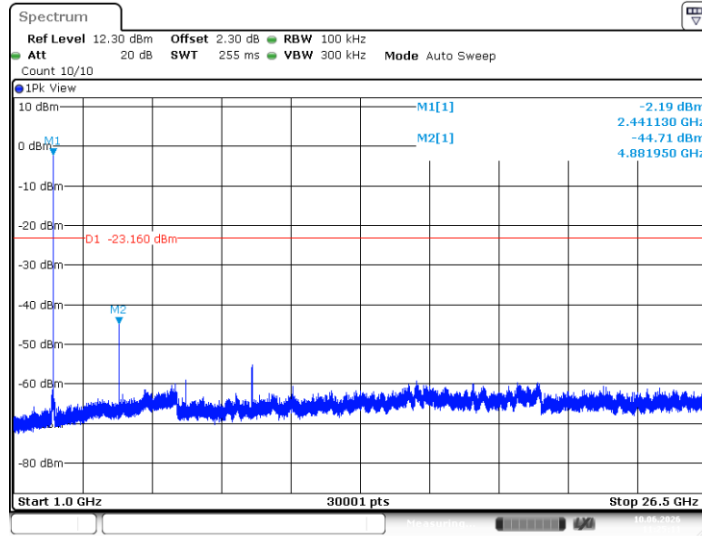
Date: 10.JUN.2026 11:24:20

DH5_Ant1_2441_30~1000



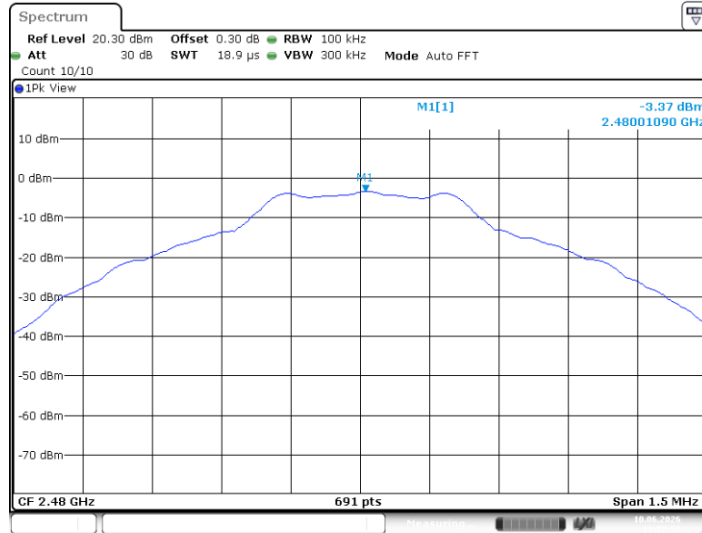
Date: 10.JUN.2026 11:24:34

DH5_Ant1_2441_1000~26500



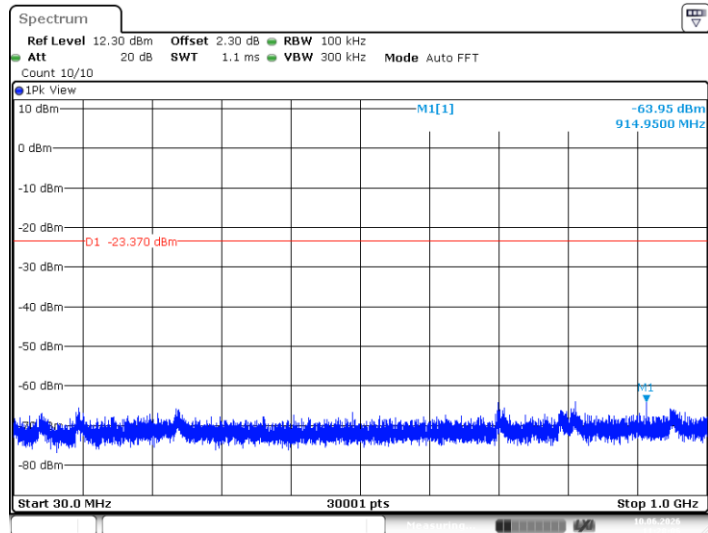
Date: 10.JUN.2026 11:25:12

DH5_Ant1_2480_0~Reference



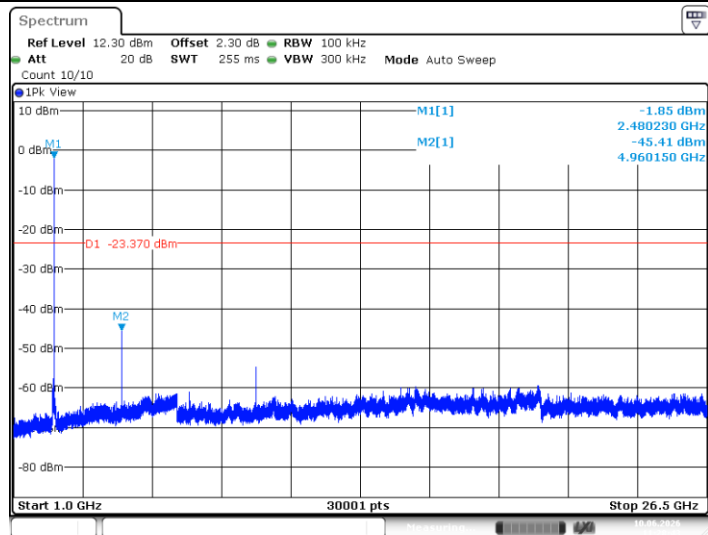
Date: 10.JUN.2026 11:27:52

DH5_Ant1_2480_30~1000



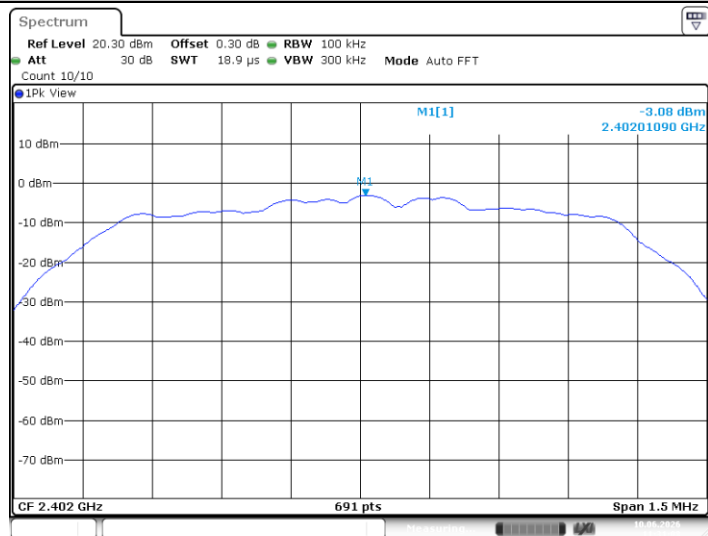
Date: 10.JUN.2026 11:28:06

DH5_Ant1_2480_1000~26500



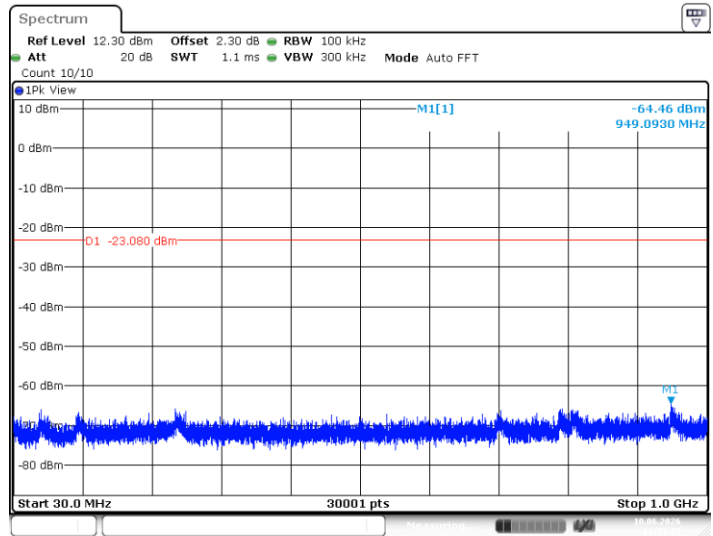
Date: 10.JUN.2026 11:28:44

2DH5_Ant1_2402_0~Reference



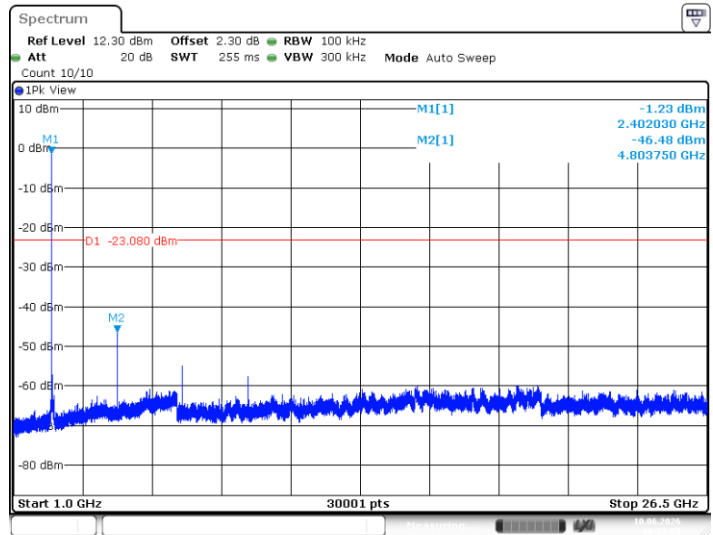
Date: 10.JUN.2026 11:31:08

2DH5_Ant1_2402_30~1000



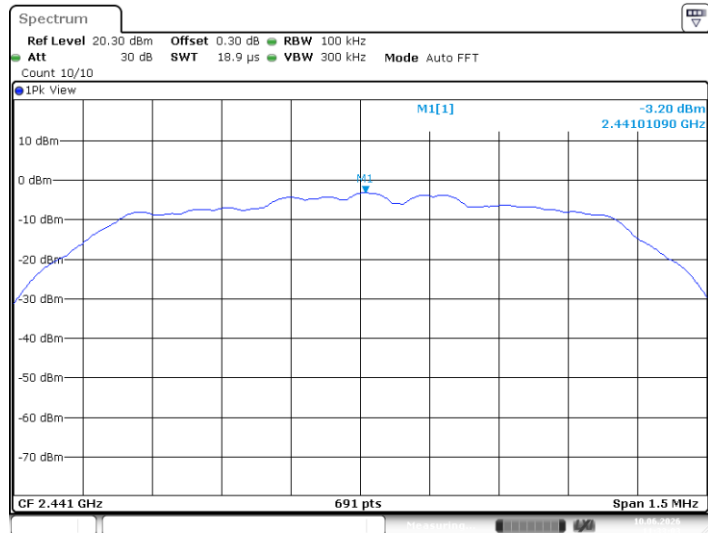
Date: 10.JUN.2026 11:31:22

2DH5_Ant1_2402_1000~26500



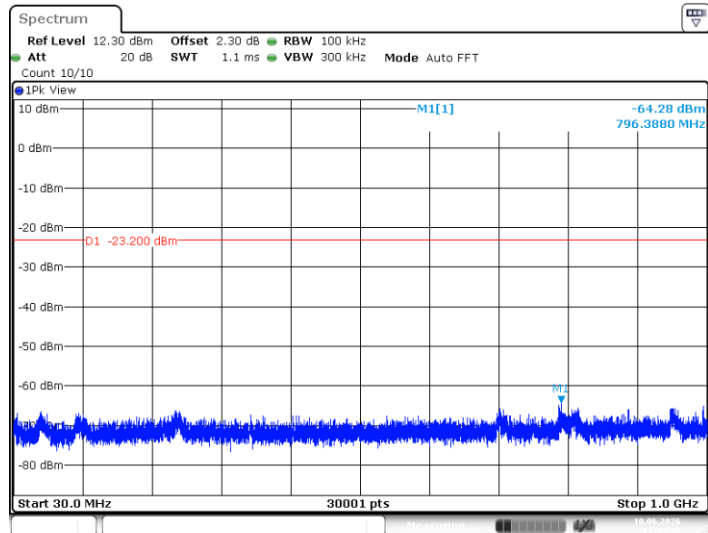
Date: 10.JUN.2026 11:32:00

2DH5_Ant1_2441_0~Reference



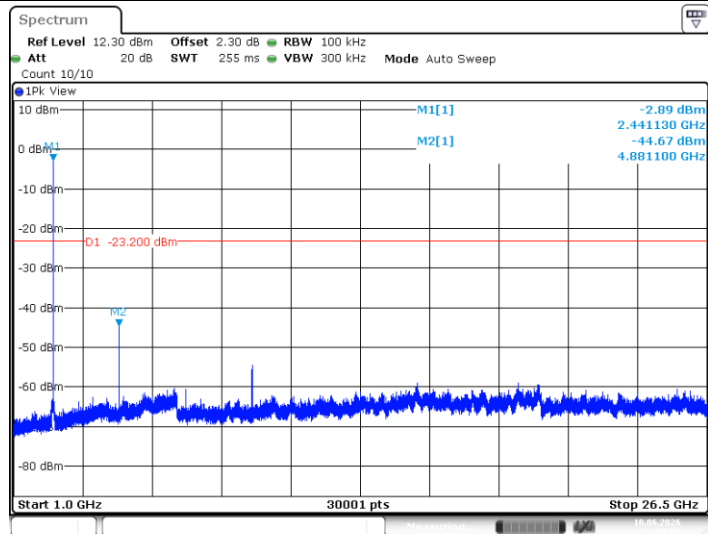
Date: 10.JUN.2026 11:33:03

2DH5_Ant1_2441_30~1000



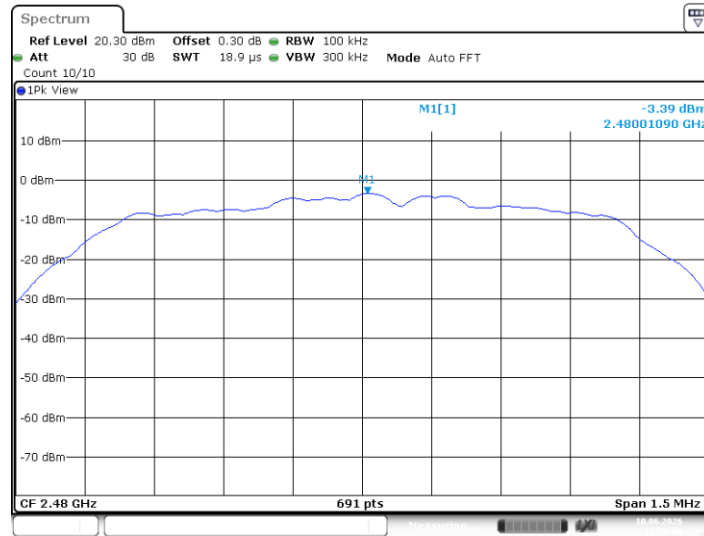
Date: 10.JUN.2026 11:33:18

2DH5_Ant1_2441_1000~26500



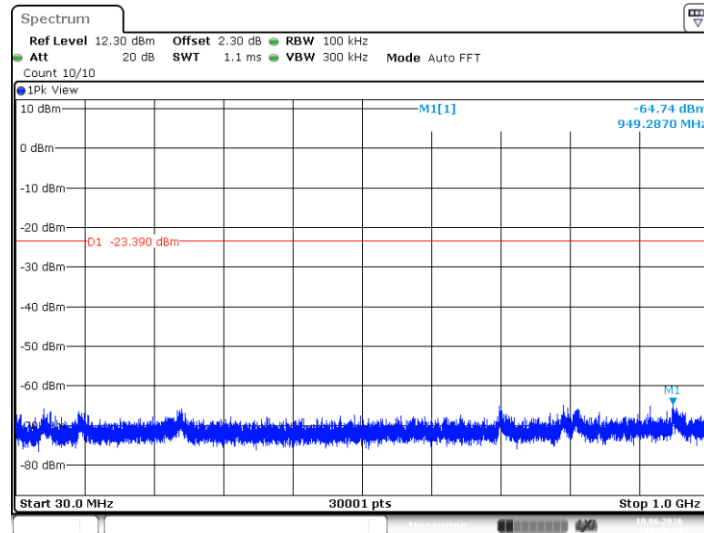
Date: 10.JUN.2026 11:33:55

2DH5_Ant1_2480_0~Reference



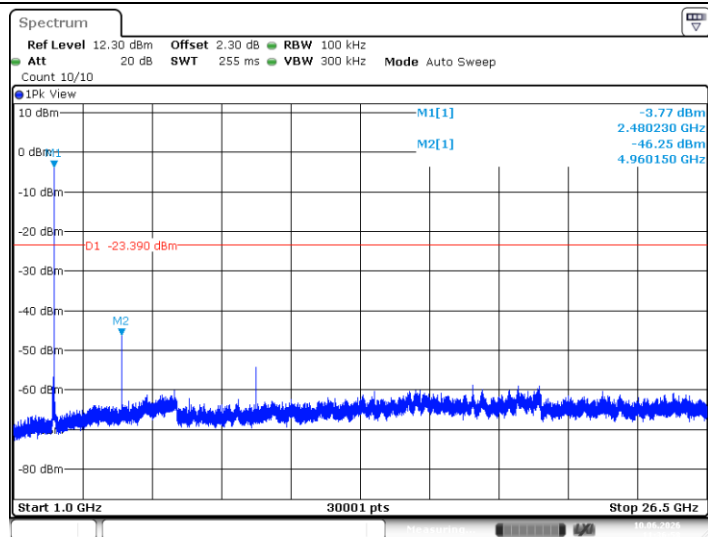
Date: 10.JUN.2026 11:36:06

2DH5_Ant1_2480_30~1000



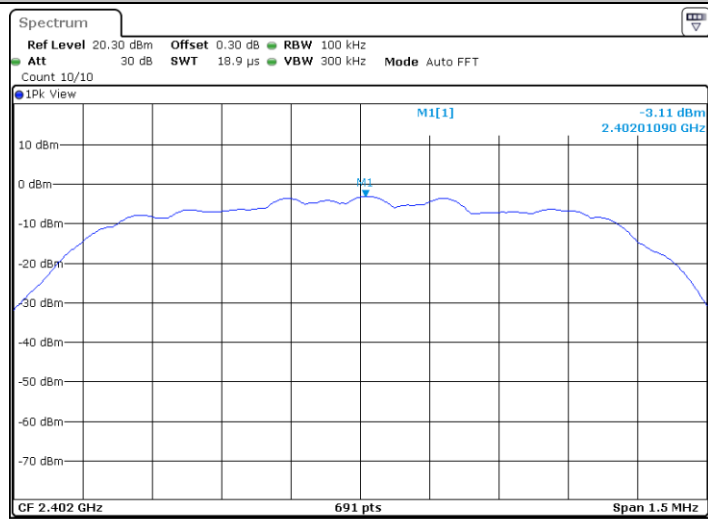
Date: 10.JUN.2026 11:36:20

2DH5_Ant1_2480_1000~26500



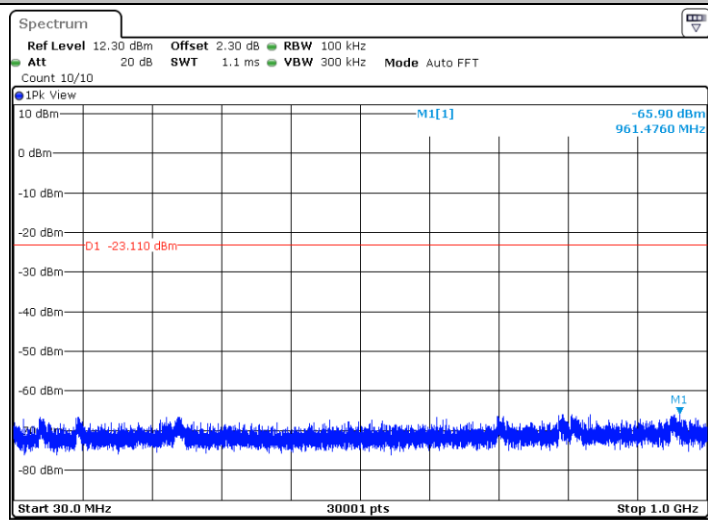
Date: 10.JUN.2026 11:36:58

3DH5_Ant1_2402_0~Reference



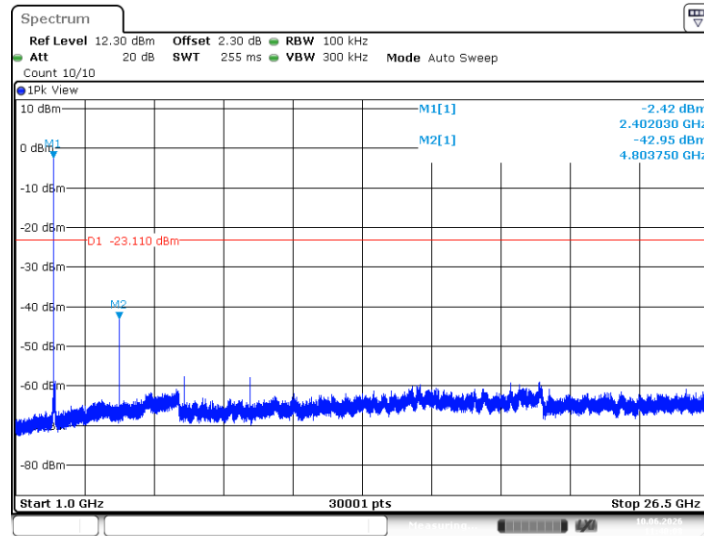
Date: 10.JUN.2026 11:39:16

3DH5_Ant1_2402_30~1000



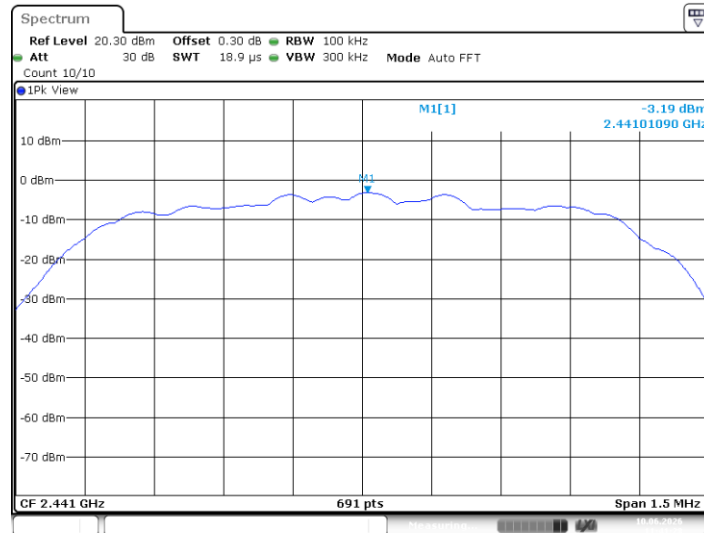
Date: 10.JUN.2026 11:39:31

3DH5_Ant1_2402_1000~26500



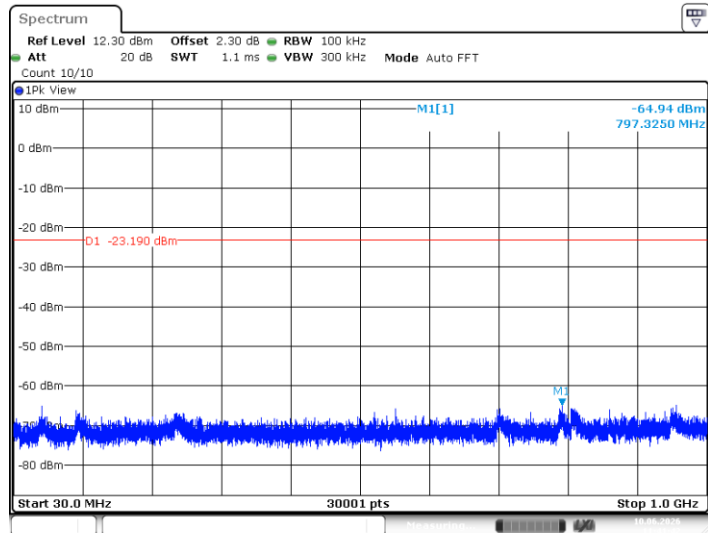
Date: 10.JUN.2026 11:40:08

3DH5_Ant1_2441_0~Reference



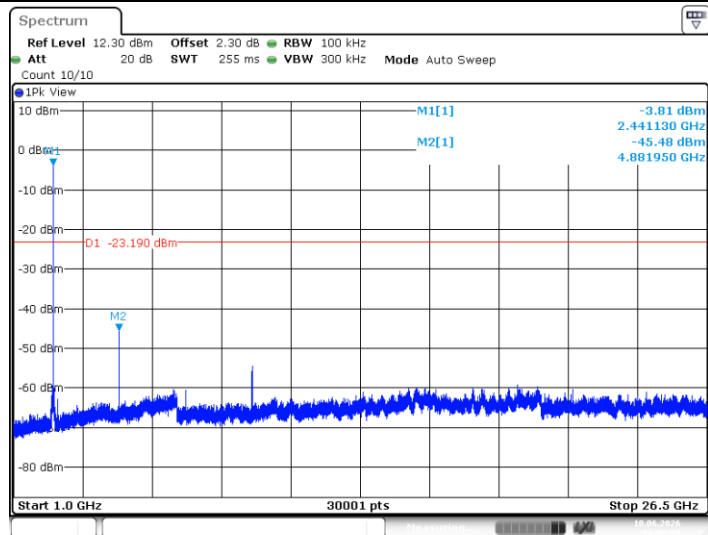
Date: 10.JUN.2026 11:41:28

3DH5_Ant1_2441_30~1000



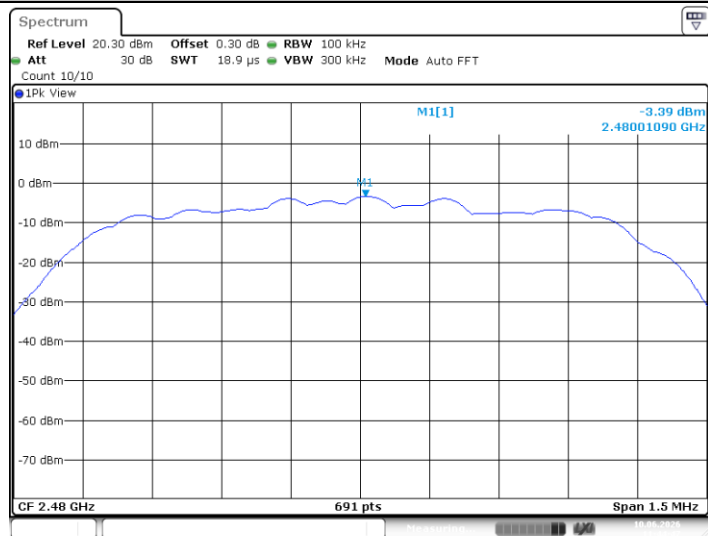
Date: 10.JUN.2026 11:41:43

3DH5_Ant1_2441_1000~26500

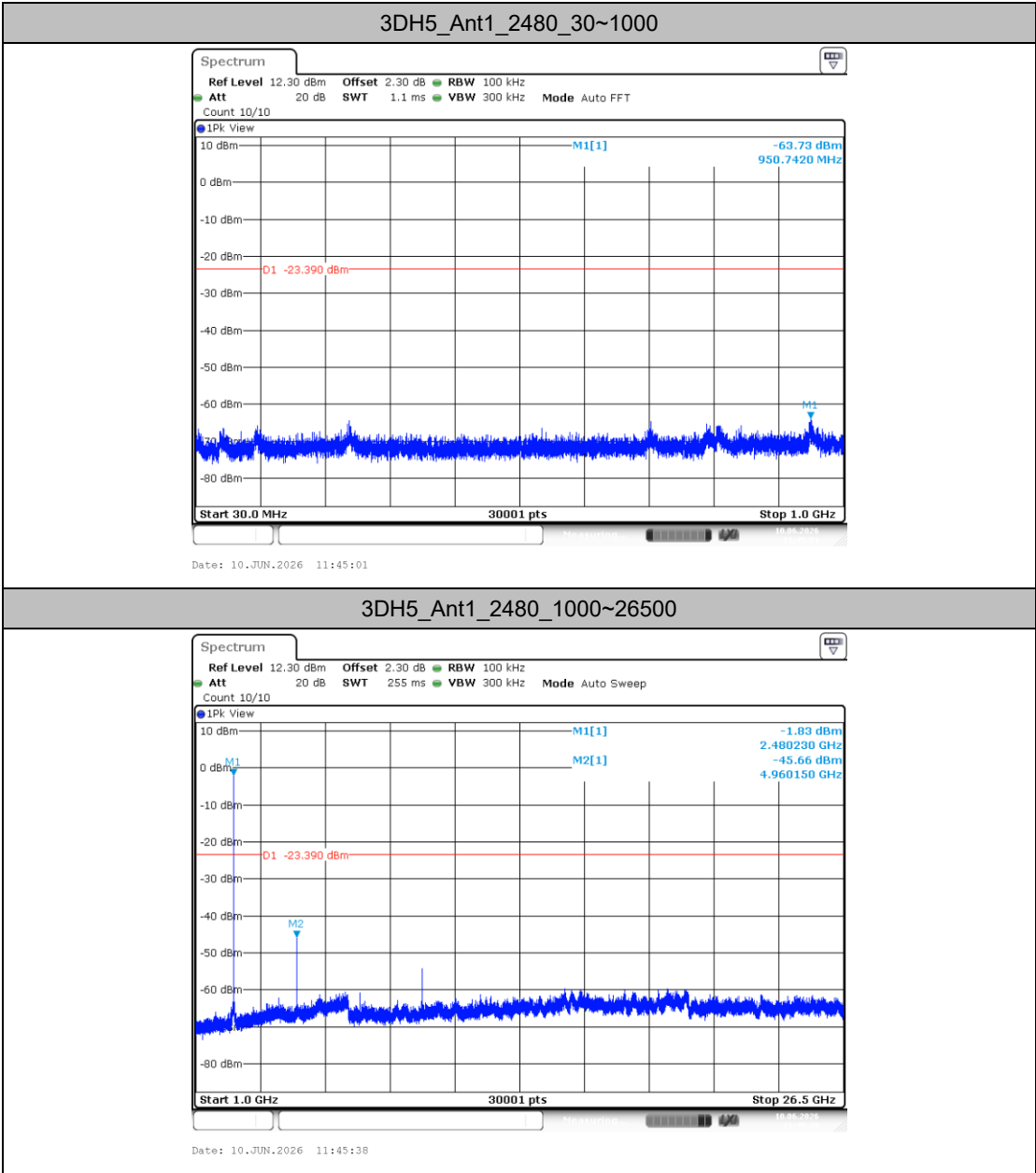


Date: 10.JUN.2026 11:42:20

3DH5_Ant1_2480_0~Reference



Date: 10.JUN.2026 11:44:47

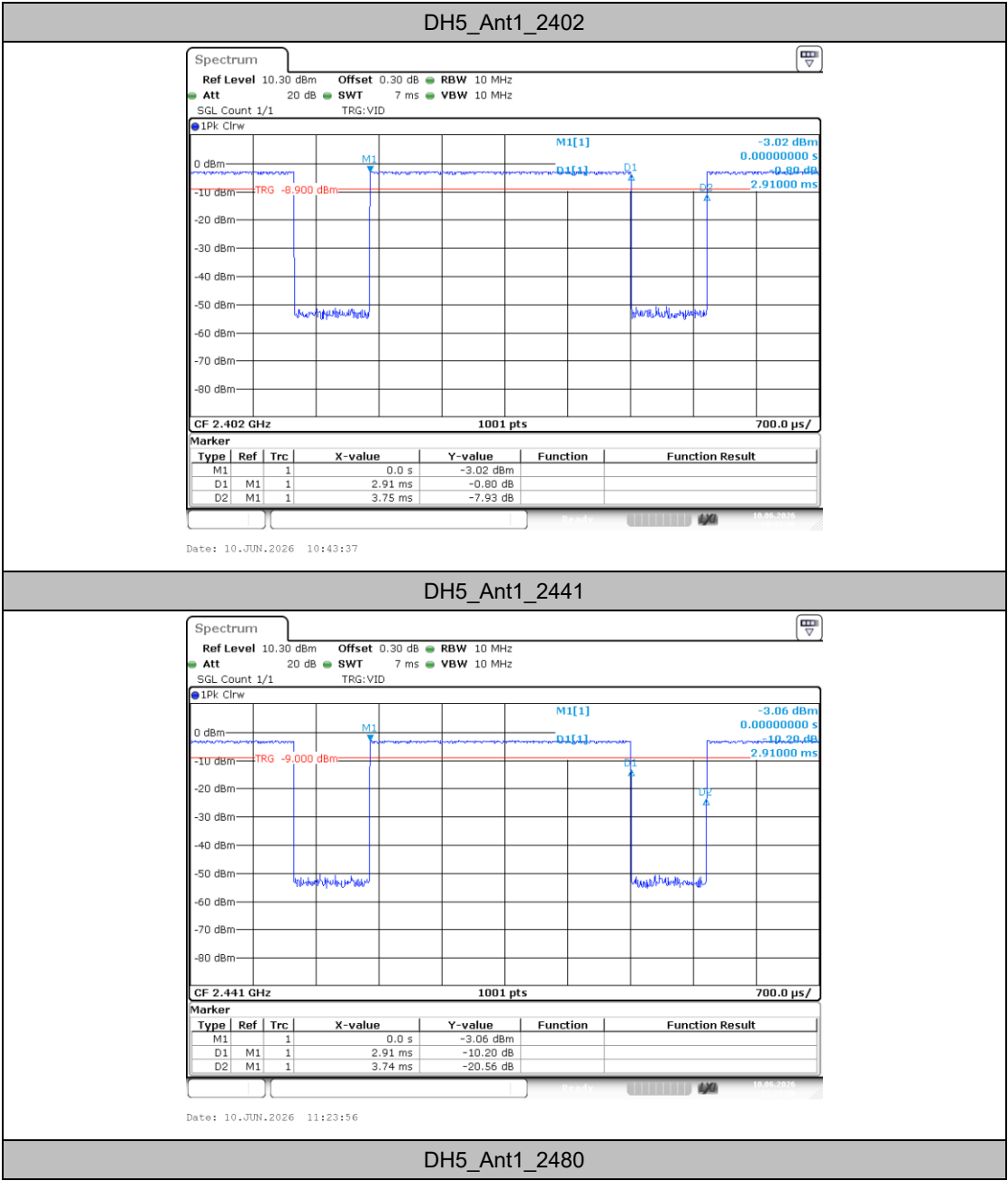


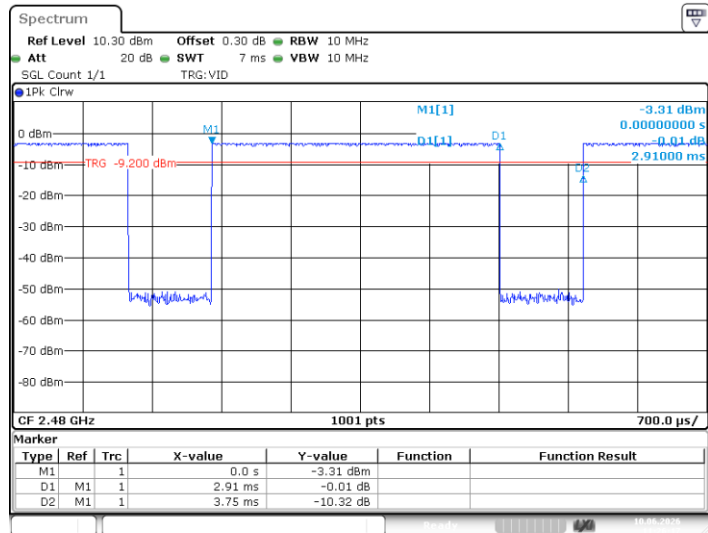
Appendix I: Duty Cycle

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	3.74	77.81	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.91	3.74	77.81	1.09	---	---
		2441	2.92	3.76	77.66	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---
3DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.92	3.75	77.87	1.09	---	---

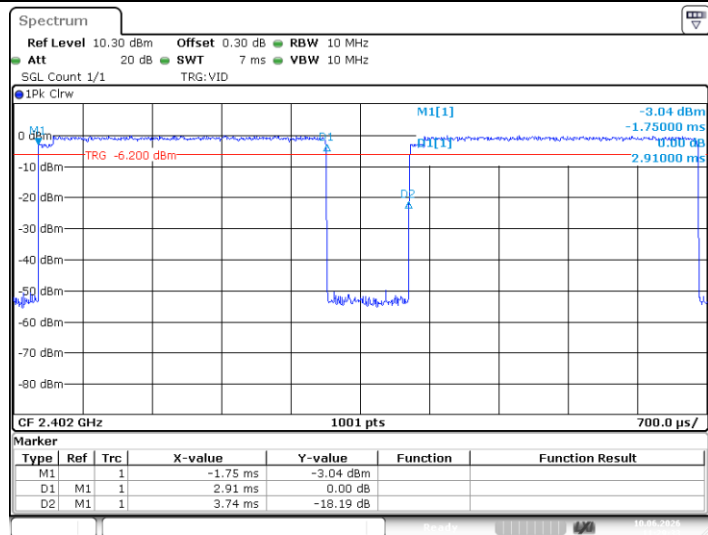
Test Graphs





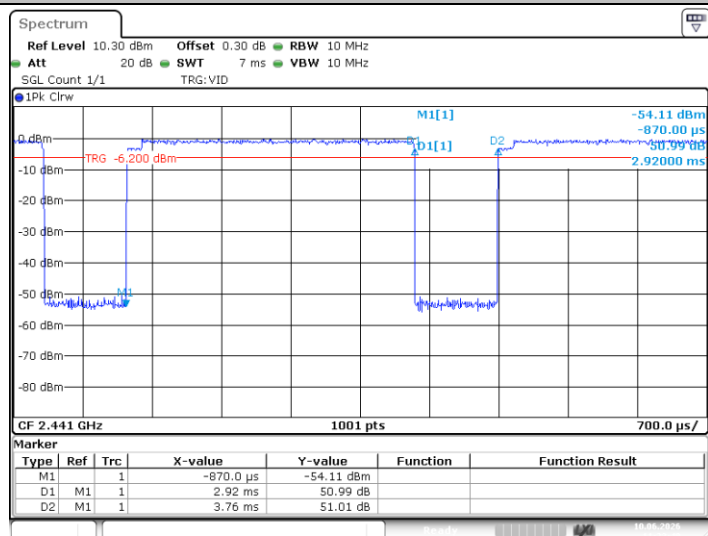
Date: 10.JUN.2026 11:26:16

2DH5_Ant1_2402



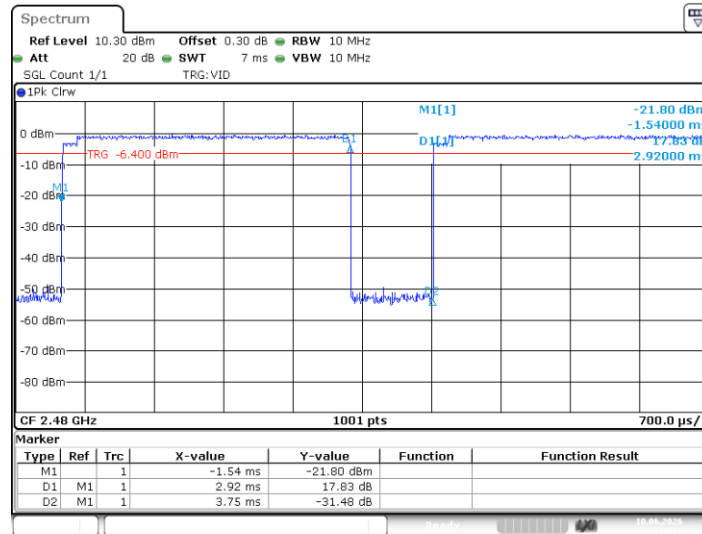
Date: 10.JUN.2026 11:29:33

2DH5_Ant1_2441



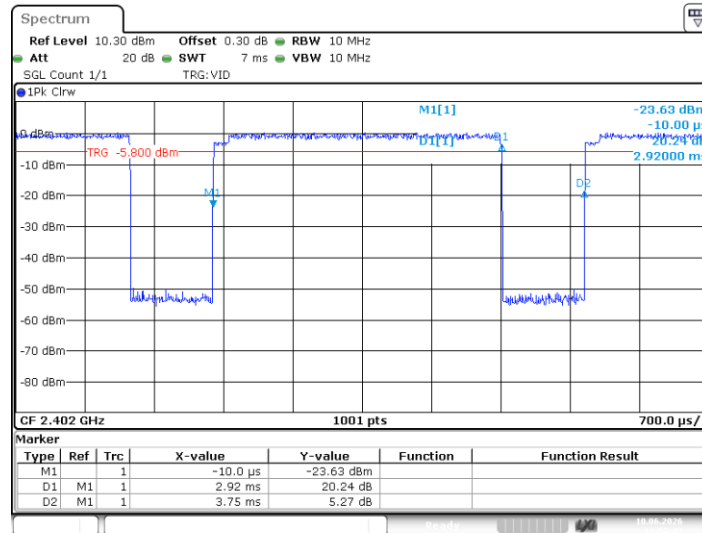
Date: 10.JUN.2026 11:32:40

2DH5_Ant1_2480



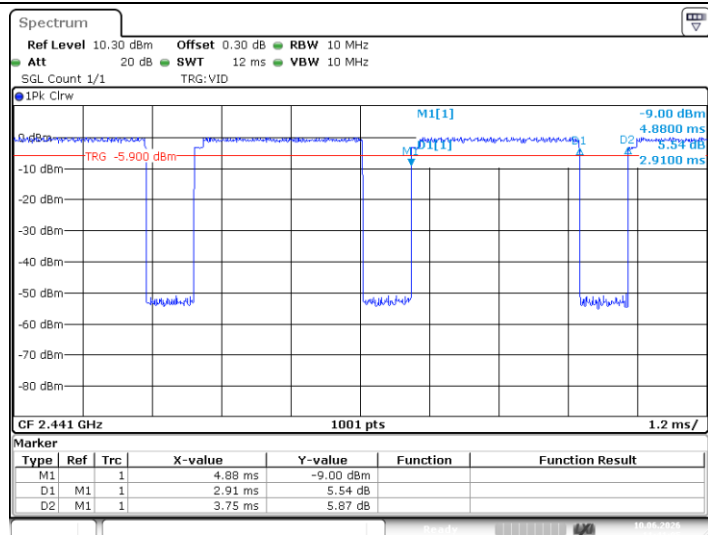
Date: 10.JUN.2026 11:34:31

3DH5_Ant1_2402



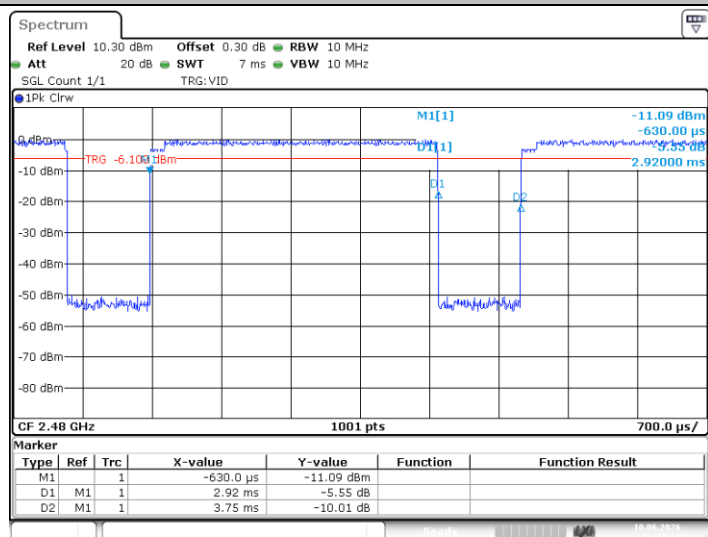
Date: 10.JUN.2026 11:37:42

3DH5_Ant1_2441



Date: 10.JUN.2026 11:41:04

3DH5_Ant1_2480



Date: 10.JUN.2026 11:43:12

Appendix J: Emissions in Restricted Bands

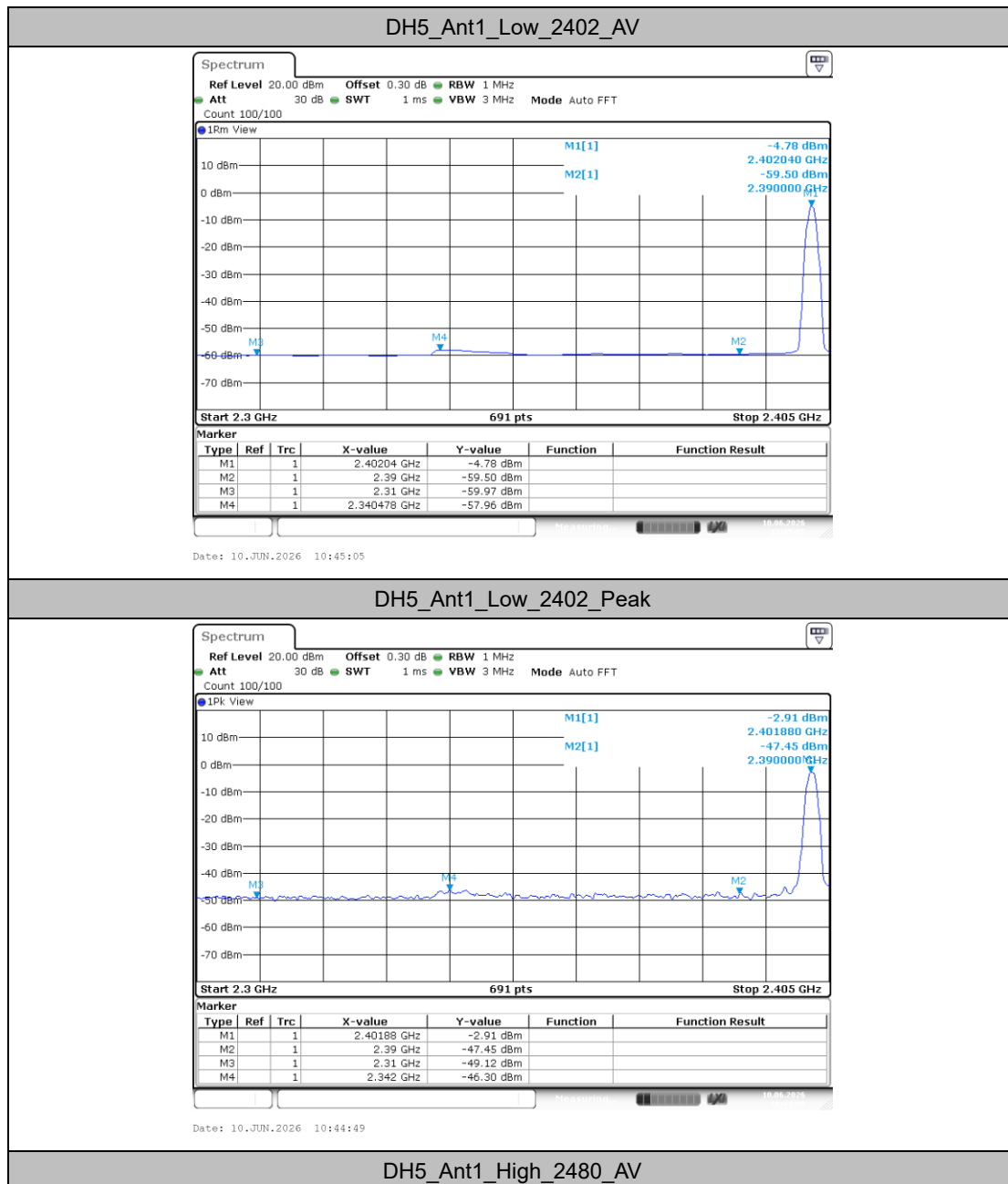
Test Result

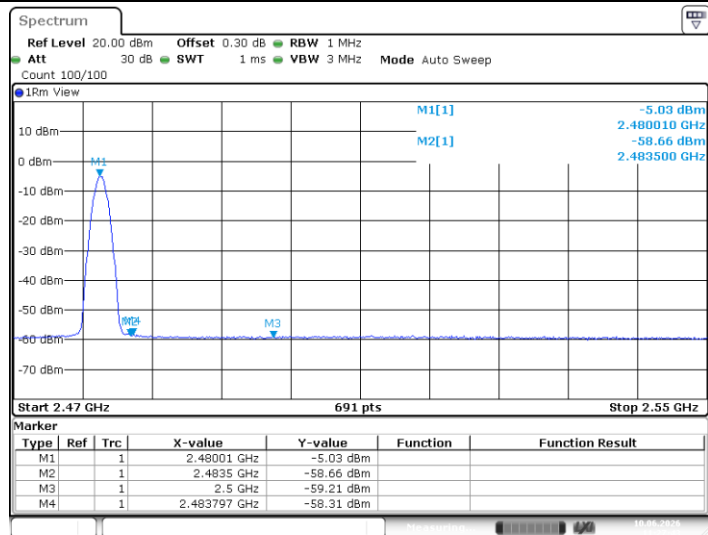
TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.97	2.00	1.10	38.33	≤54	PASS
				AV	2340.478	-57.96	2.00	1.10	40.34	≤54	PASS
				AV	2390.000	-59.5	2.00	1.10	38.80	≤54	PASS
				Peak	2310.000	-49.12	2.00	0.00	48.08	≤74	PASS
				Peak	2342.000	-46.3	2.00	0.00	50.90	≤74	PASS
				Peak	2390.000	-47.45	2.00	0.00	49.75	≤74	PASS
		High	2480	AV	2483.500	-58.66	2.00	1.10	39.64	≤54	PASS
				AV	2483.797	-58.31	2.00	1.10	39.99	≤54	PASS
				AV	2500.000	-59.21	2.00	1.10	39.09	≤54	PASS
				Peak	2483.500	-47.23	2.00	0.00	49.97	≤74	PASS
				Peak	2484.261	-45.05	2.00	0.00	52.15	≤74	PASS
				Peak	2500.000	-46.99	2.00	0.00	50.21	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.9	2.00	1.09	38.39	≤54	PASS
				AV	2342.000	-57.9	2.00	1.09	40.39	≤54	PASS
				AV	2390.000	-59.49	2.00	1.09	38.80	≤54	PASS
				Peak	2310.000	-48.5	2.00	0.00	48.70	≤74	PASS
				Peak	2342.761	-46.16	2.00	0.00	51.04	≤74	PASS
				Peak	2390.000	-48.42	2.00	0.00	48.78	≤74	PASS
		High	2480	AV	2483.500	-58.56	2.00	1.09	39.73	≤54	PASS
				AV	2483.565	-58.45	2.00	1.09	39.84	≤54	PASS
				AV	2500.000	-59.27	2.00	1.09	39.02	≤54	PASS
				Peak	2483.500	-46.83	2.00	0.00	50.37	≤74	PASS
				Peak	2484.377	-45.12	2.00	0.00	52.08	≤74	PASS
				Peak	2500.000	-48.83	2.00	0.00	48.37	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.86	2.00	1.09	38.43	≤54	PASS
				AV	2341.239	-57.96	2.00	1.09	40.33	≤54	PASS
				AV	2390.000	-59.45	2.00	1.09	38.84	≤54	PASS
				Peak	2310.000	-48.2	2.00	0.00	49.00	≤74	PASS
				Peak	2340.478	-46.49	2.00	0.00	50.71	≤74	PASS
				Peak	2390.000	-47.94	2.00	0.00	49.26	≤74	PASS
		High	2480	AV	2483.500	-58.65	2.00	1.09	39.64	≤54	PASS
				AV	2484.609	-58.45	2.00	1.09	39.84	≤54	PASS
				AV	2500.000	-58.97	2.00	1.09	39.32	≤54	PASS
				Peak	2483.500	-47.74	2.00	0.00	49.46	≤74	PASS
				Peak	2484.725	-44.66	2.00	0.00	52.54	≤74	PASS
				Peak	2500.000	-48.22	2.00	0.00	48.98	≤74	PASS

Note:

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.

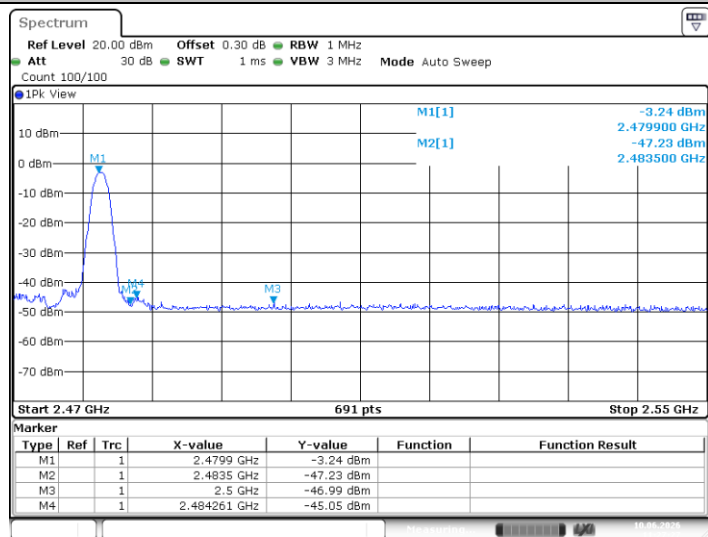
Test Graphs





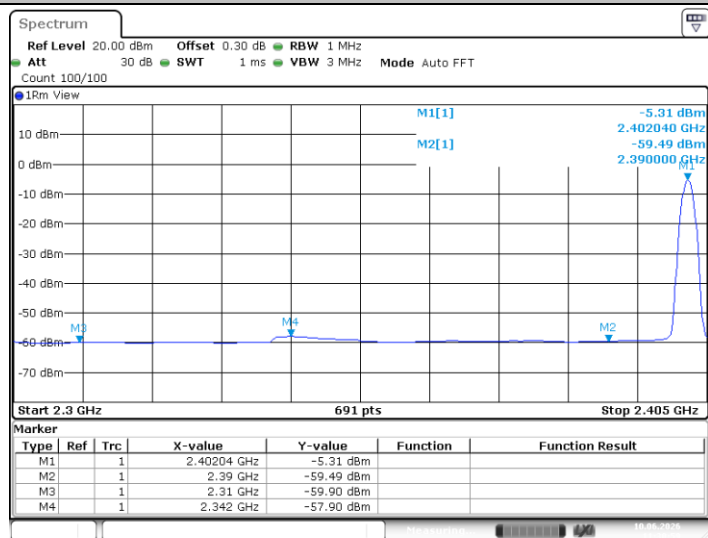
Date: 10.JUN.2026 11:27:43

DH5_Ant1_High_2480_Peak



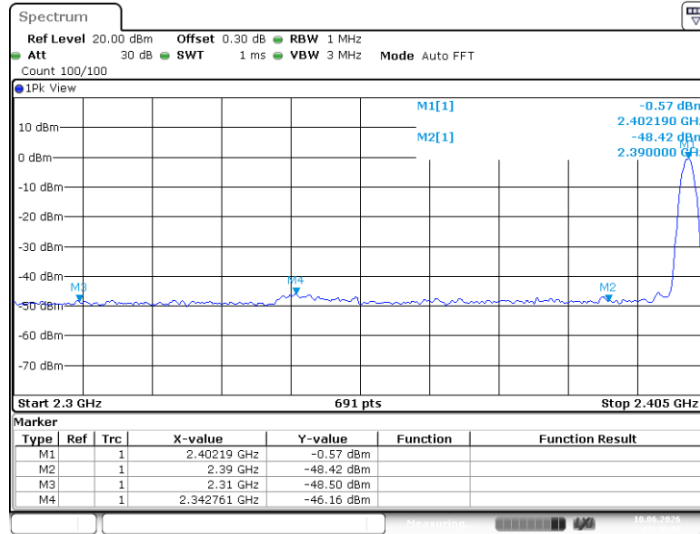
Date: 10.JUN.2026 11:27:27

2DH5_Ant1_Low_2402_AV

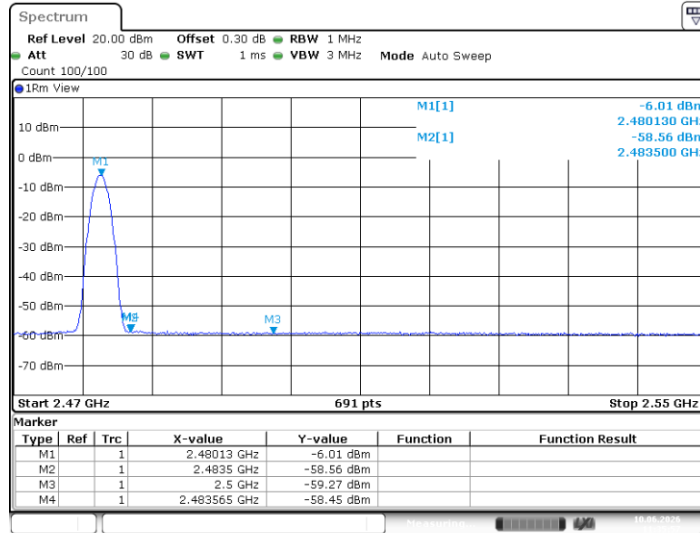


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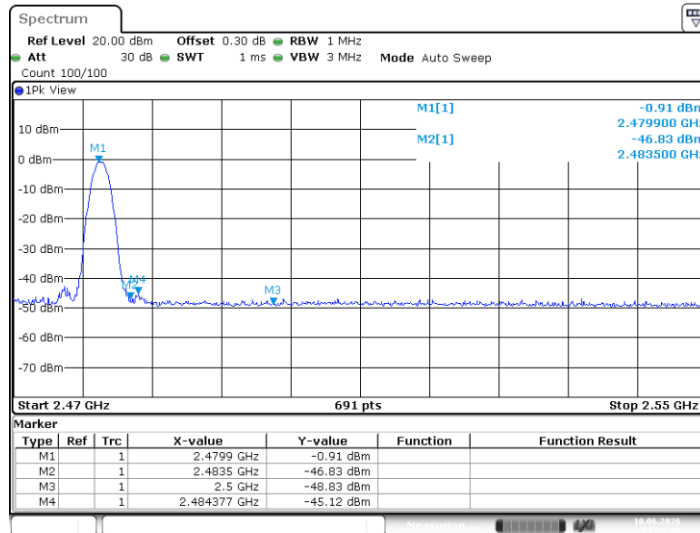
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

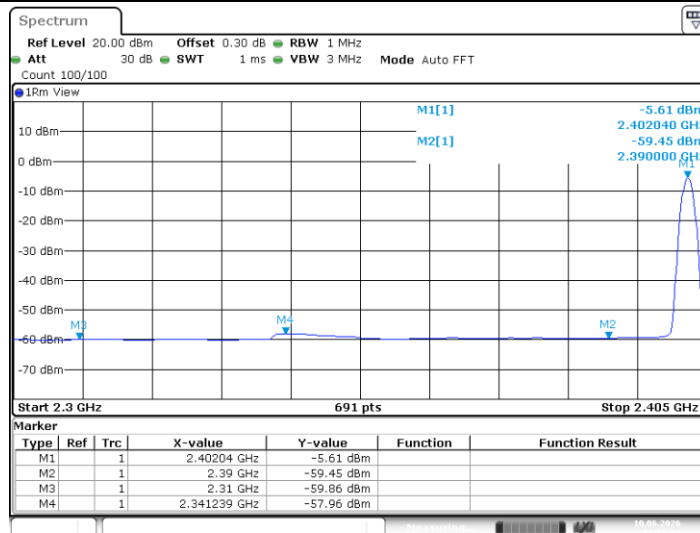


2DH5_Ant1_High_2480_Peak



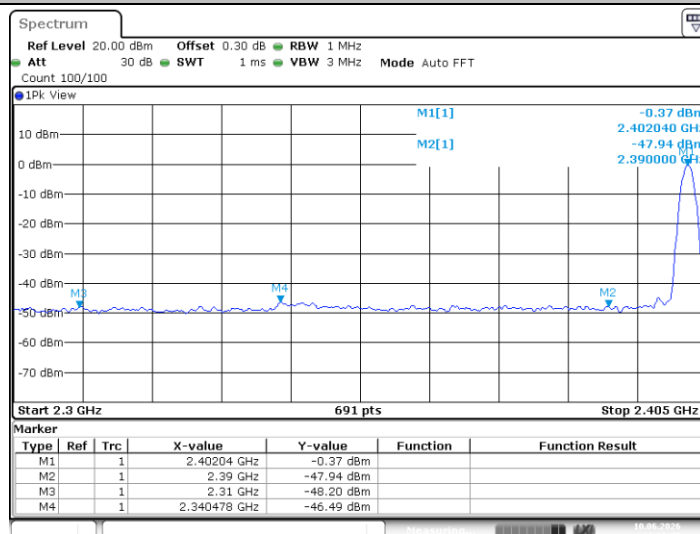
Date: 10.JUN.2026 11:35:42

3DH5_Ant1_Low_2402_AV



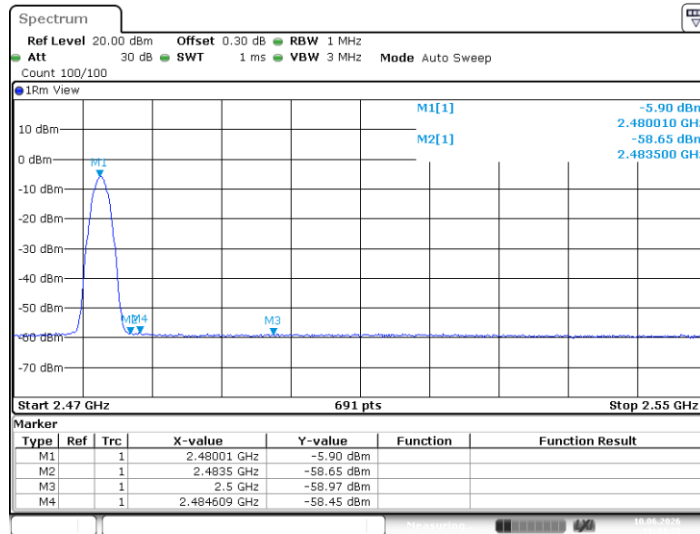
Date: 10.JUN.2026 11:39:07

3DH5_Ant1_Low_2402_Peak



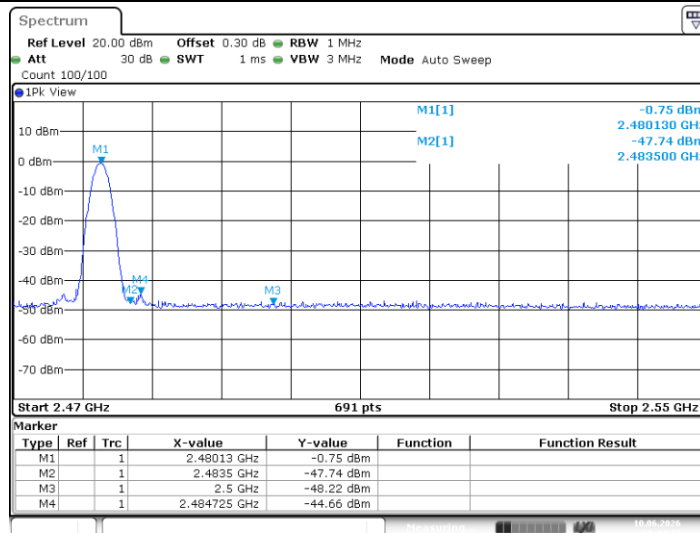
Date: 10.JUN.2026 11:38:52

3DH5_Ant1_High_2480_AV



Date: 10.JUN.2026 11:44:37

3DH5_Ant1_High_2480_Peak



Date: 10.JUN.2026 11:44:22