

Appendix A



RF Test: General Information

Project No.:	2501T61805E-RF
EUT Number:	33M8-2
Operating Mode:	Transmitting
Test Conditions:	Temperature: <u>25</u> °C Relative Humidity: <u>55</u> % ATM Pressure: <u>101.4</u> kPa
Test Engineer:	<i>Nanli - Cai</i>
Test Date:	2025-6-20

20dB Emission Bandwidth

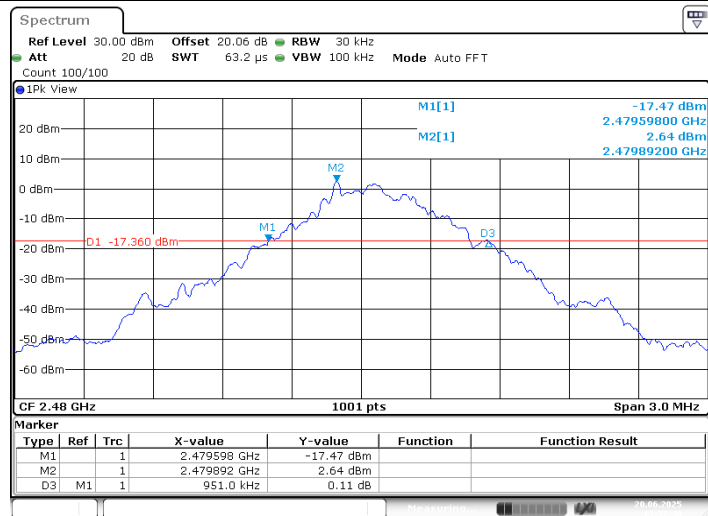
Test Result

Test Mode	Antenna	Channel	20dB EBW[MHz]	Limit[MHz]	Verdict
GFSK_ DH1	Ant1	2402	0.94	---	---
		2441	0.94	---	---
		2480	0.95	---	---
$\pi/4$ -DQPSK_ 2DH1	Ant1	2402	1.22	---	---
		2441	1.22	---	---
		2480	1.22	---	---
8DPSK_ 3DH1	Ant1	2402	1.22	---	---
		2441	1.22	---	---
		2480	1.22	---	---

Test Graphs

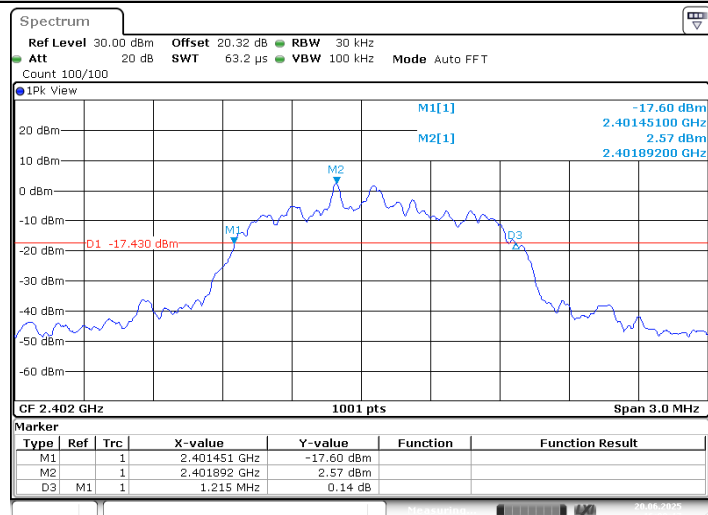


DH1_Ant1_2480



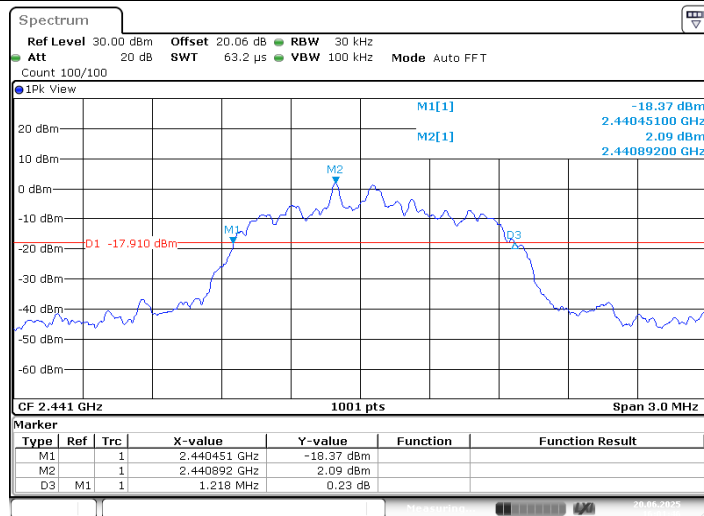
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 15:57:40

2DH1_Ant1_2402



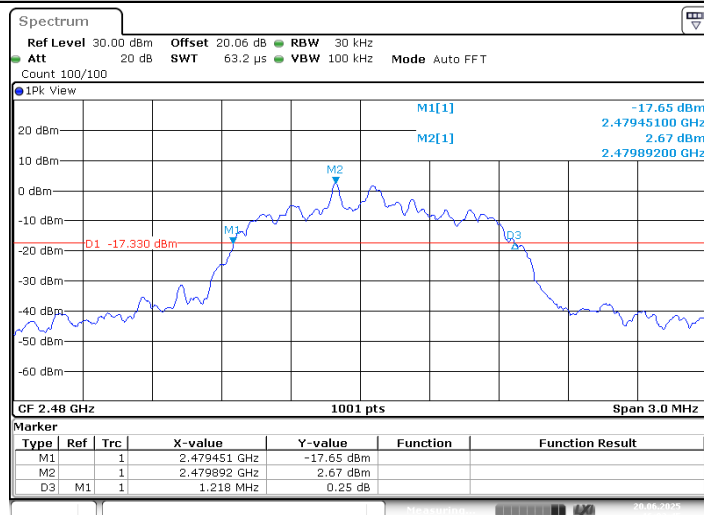
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:00:17

2DH1_Ant1_2441



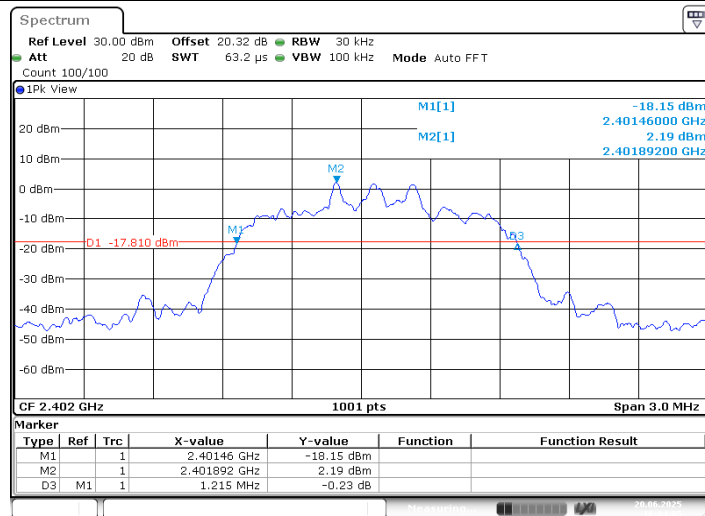
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
 Date: 20.JUN.2025 16:01:46

2DH1_Ant1_2480



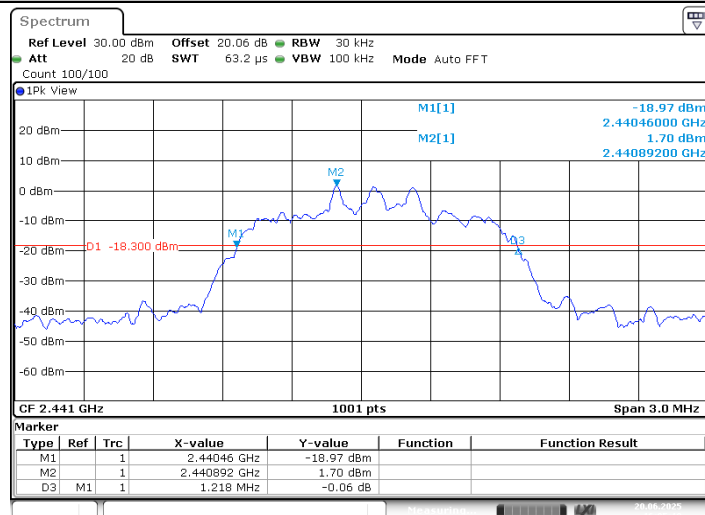
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
 Date: 20.JUN.2025 16:02:45

3DH1_Ant1_2402

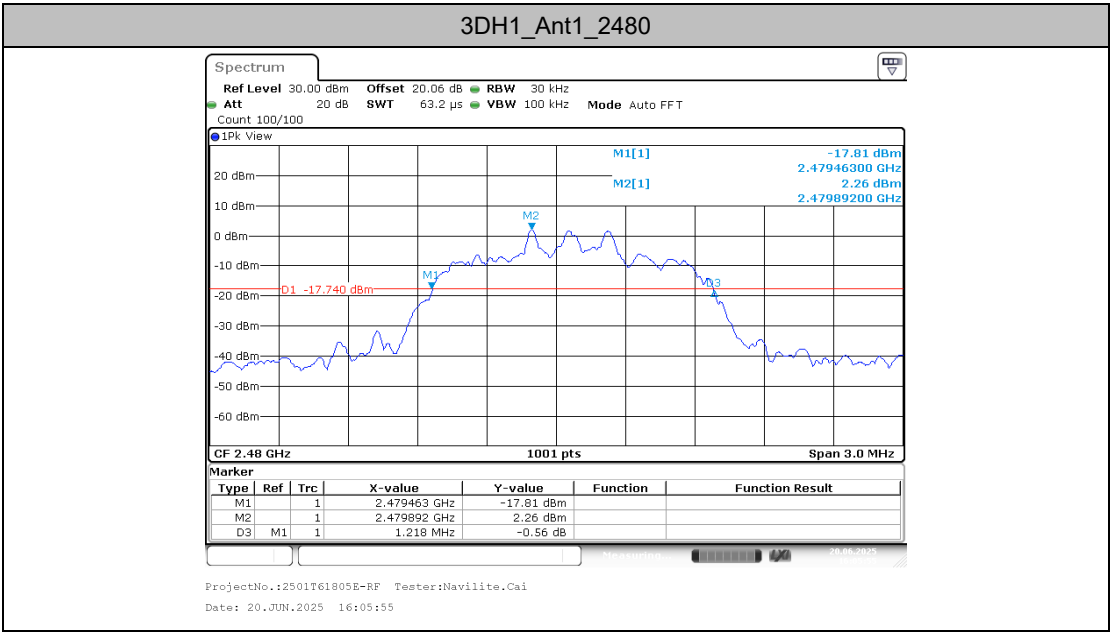


ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:04:05

3DH1_Ant1_2441



ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:05:10



Occupied Channel Bandwidth

Test Result

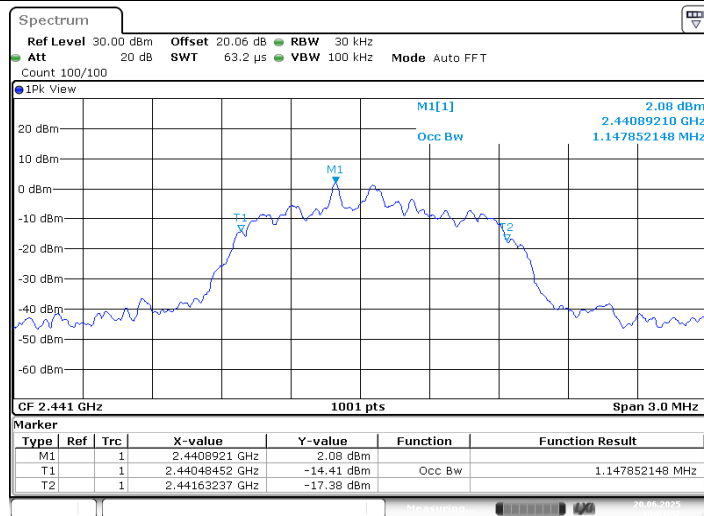
Test Mode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
GFSK_ DH1	Ant1	2402	0.896	---	---
		2441	0.896	---	---
		2480	0.902	---	---
$\pi/4$ -DQPSK _ 2DH1	Ant1	2402	1.142	---	---
		2441	1.148	---	---
		2480	1.148	---	---
8DPSK_ 3DH1	Ant1	2402	1.124	---	---
		2441	1.127	---	---
		2480	1.13	---	---

Test Graphs



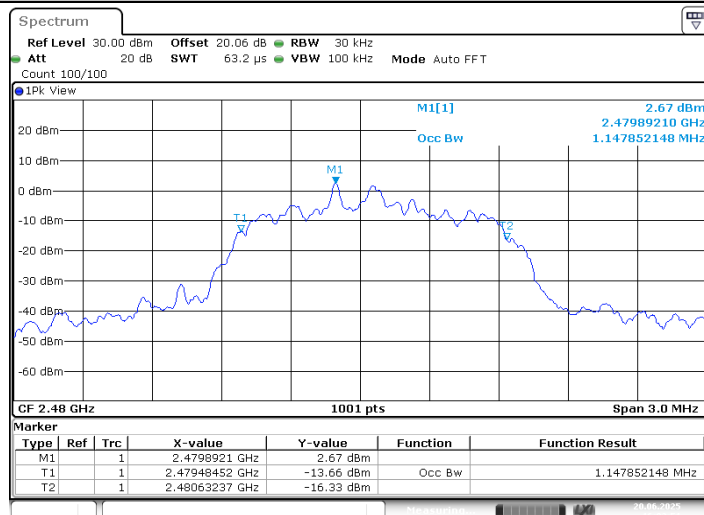


2DH1_Ant1_2441



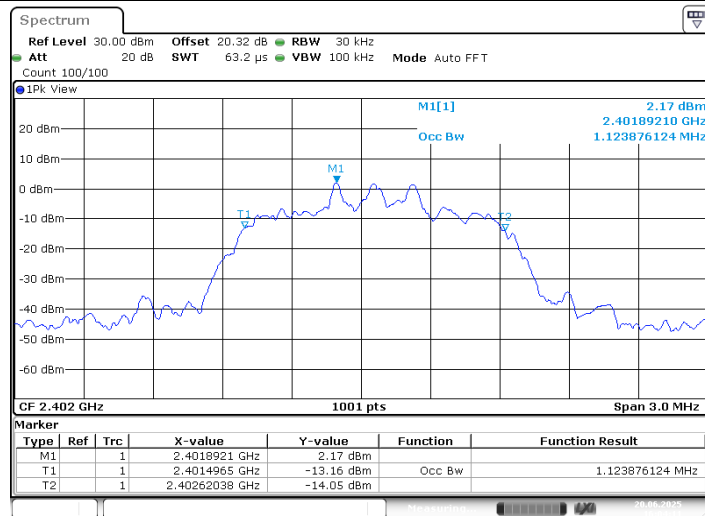
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:01:52

2DH1_Ant1_2480



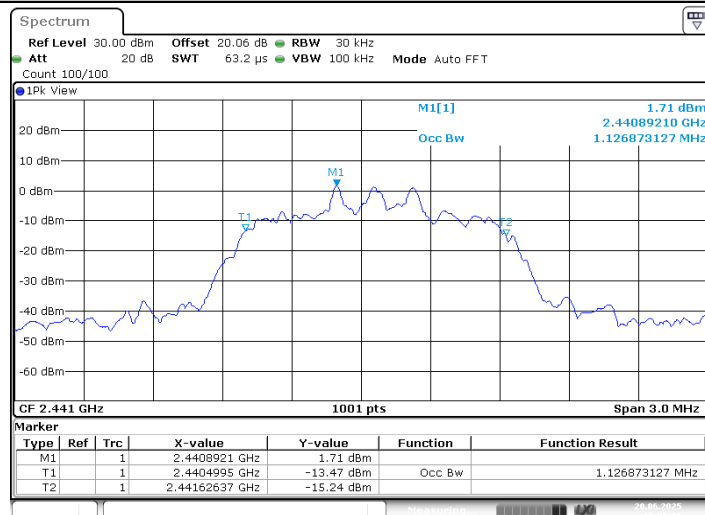
ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:02:51

3DH1_Ant1_2402

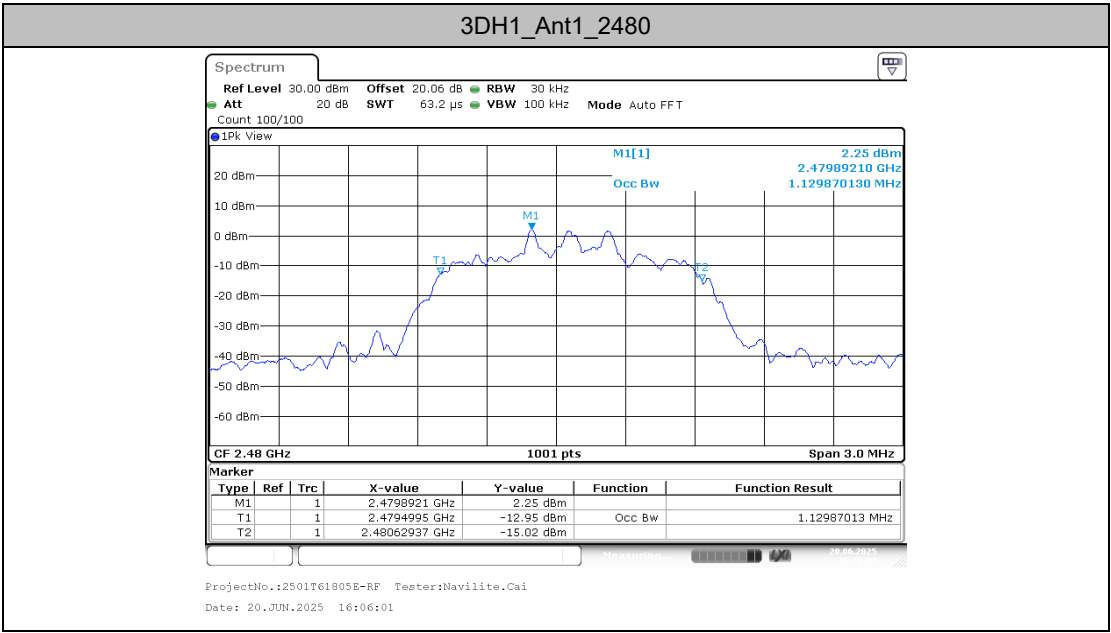


ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:04:11

3DH1_Ant1_2441



ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:05:16



Maximum conducted Peak output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
GFSK_ DH1	Ant1	2402	5.02	≤20.97	PASS
		2441	4.62	≤20.97	PASS
		2480	5.11	≤20.97	PASS
$\pi/4$ -DQPSK _ 2DH1	Ant1	2402	5.03	≤20.97	PASS
		2441	4.58	≤20.97	PASS
		2480	5.14	≤20.97	PASS
8DPSK_ 3DH1	Ant1	2402	5.03	≤20.97	PASS
		2441	4.63	≤20.97	PASS
		2480	5.13	≤20.97	PASS

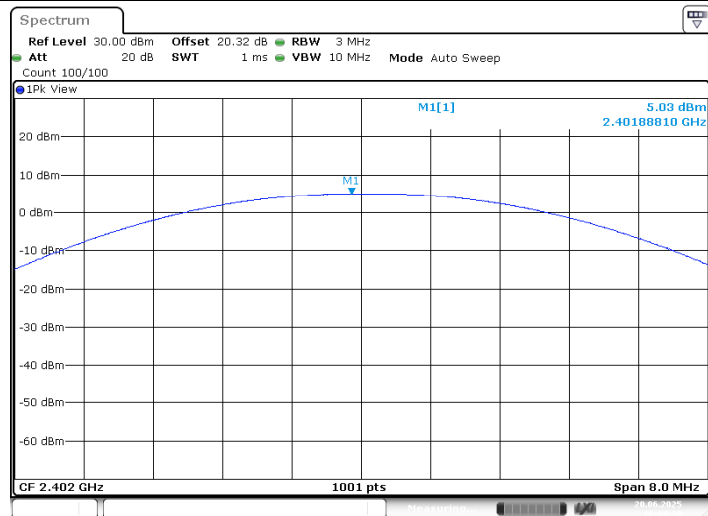
Test Graphs





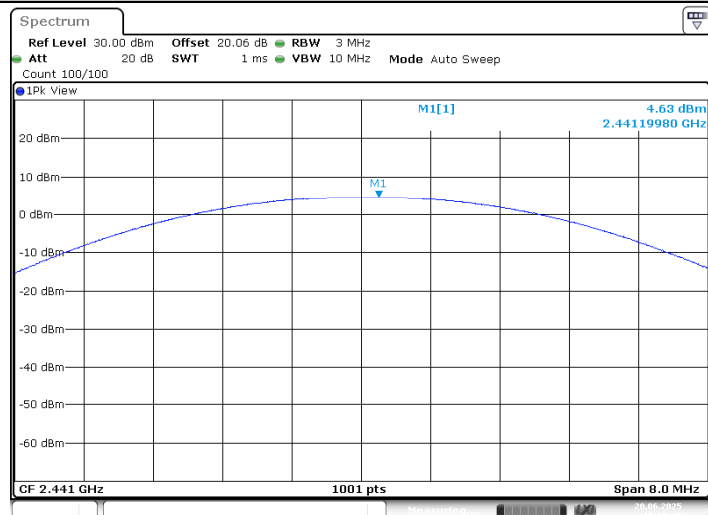


3DH1_Ant1_2402

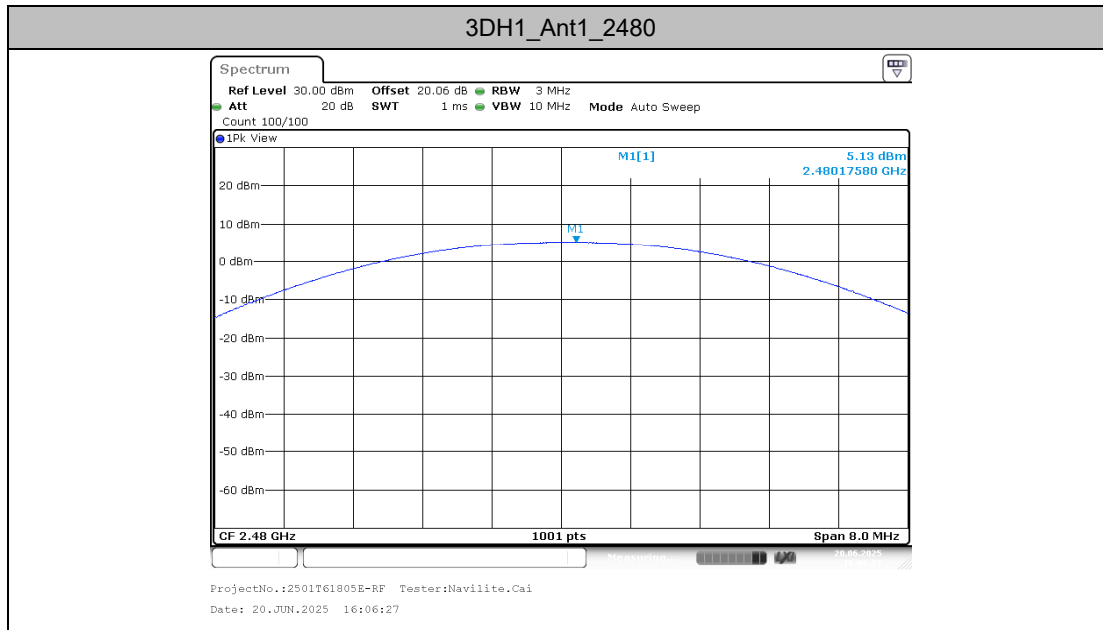


ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:04:38

3DH1_Ant1_2441



ProjectNo.:2501T61805E-RF Tester:Navilite.Cai
Date: 20.JUN.2025 16:05:26



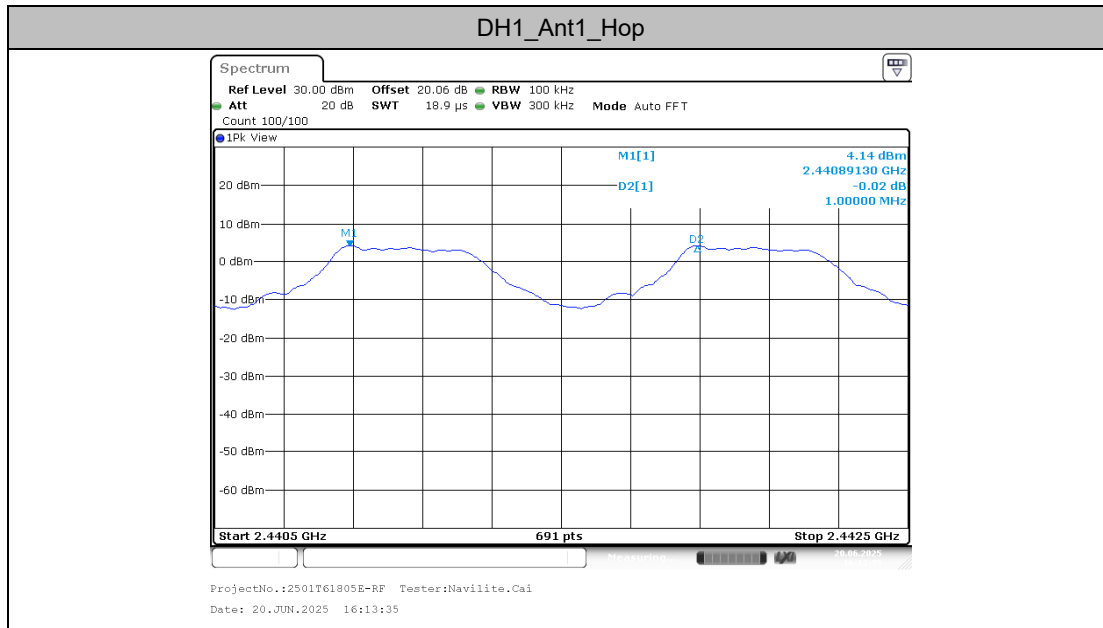
Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
GFSK_ DH1	Ant1	Hop	1.000	≥0.950	PASS

Note: Only the BDR (DH1 GFSK) mode result is reported since EDR 2DH1 ($\pi/4$ -DQPSK) and EDR 3DH1 (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth $\times 2/3$

Test Graphs



Time of occupancy

Test Result

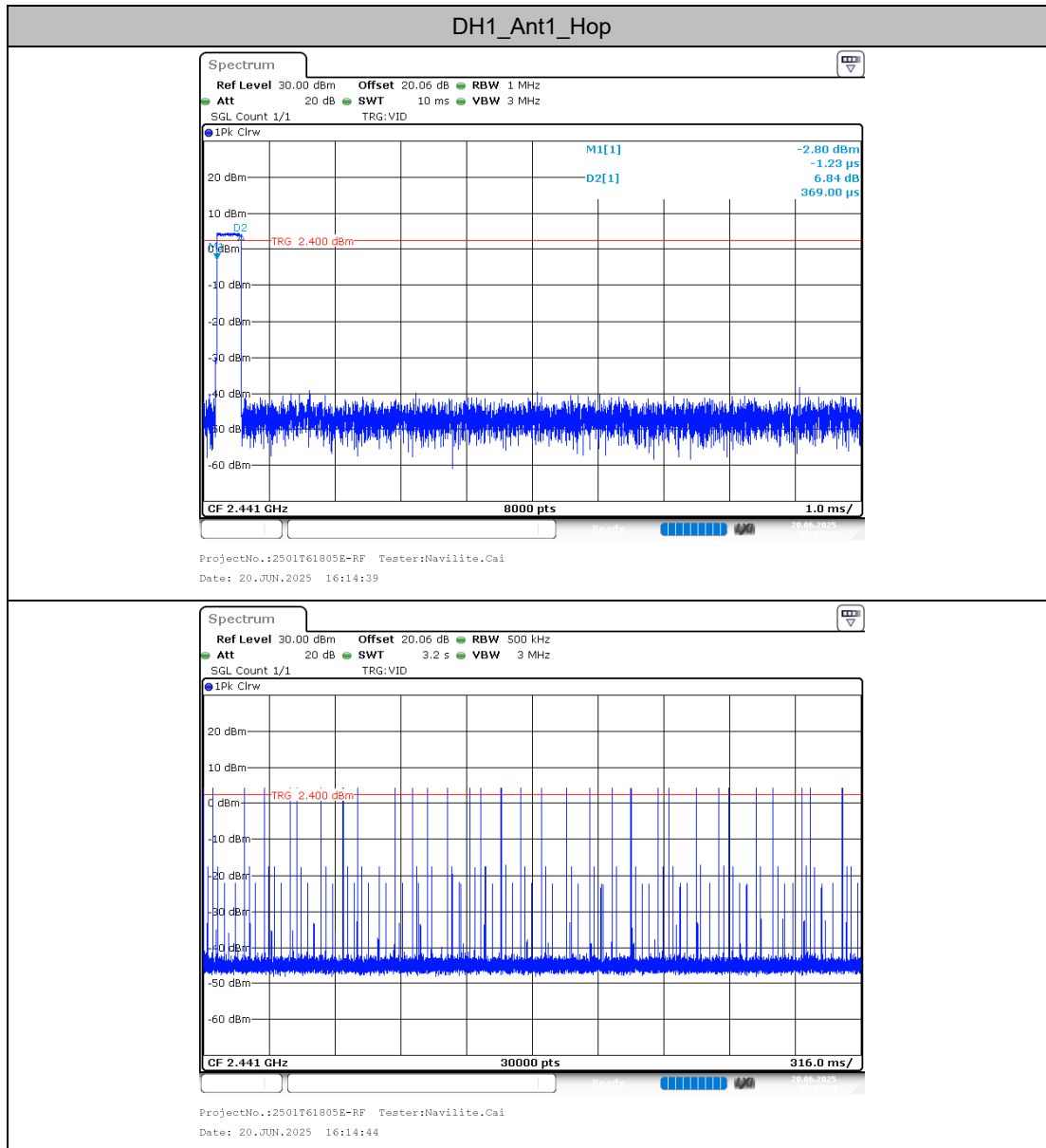
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
GFSK_ DH1	Ant1	Hop	0.369	320	0.118	≤0.4	PASS
GFSK_ DH3	Ant1	Hop	1.609	170	0.274	≤0.4	PASS
GFSK_ DH5	Ant1	Hop	2.850	110	0.314	≤0.4	PASS
$\pi/4$ -DQPSK _ 2DH1	Ant1	Hop	0.376	320	0.12	≤0.4	PASS
$\pi/4$ -DQPSK _ 2DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
$\pi/4$ -DQPSK _ 2DH5	Ant1	Hop	2.862	110	0.315	≤0.4	PASS
8DPSK_ 3DH1	Ant1	Hop	0.378	320	0.121	≤0.4	PASS
8DPSK_ 3DH3	Ant1	Hop	1.619	160	0.259	≤0.4	PASS
8DPSK_ 3DH5	Ant1	Hop	2.863	110	0.315	≤0.4	PASS

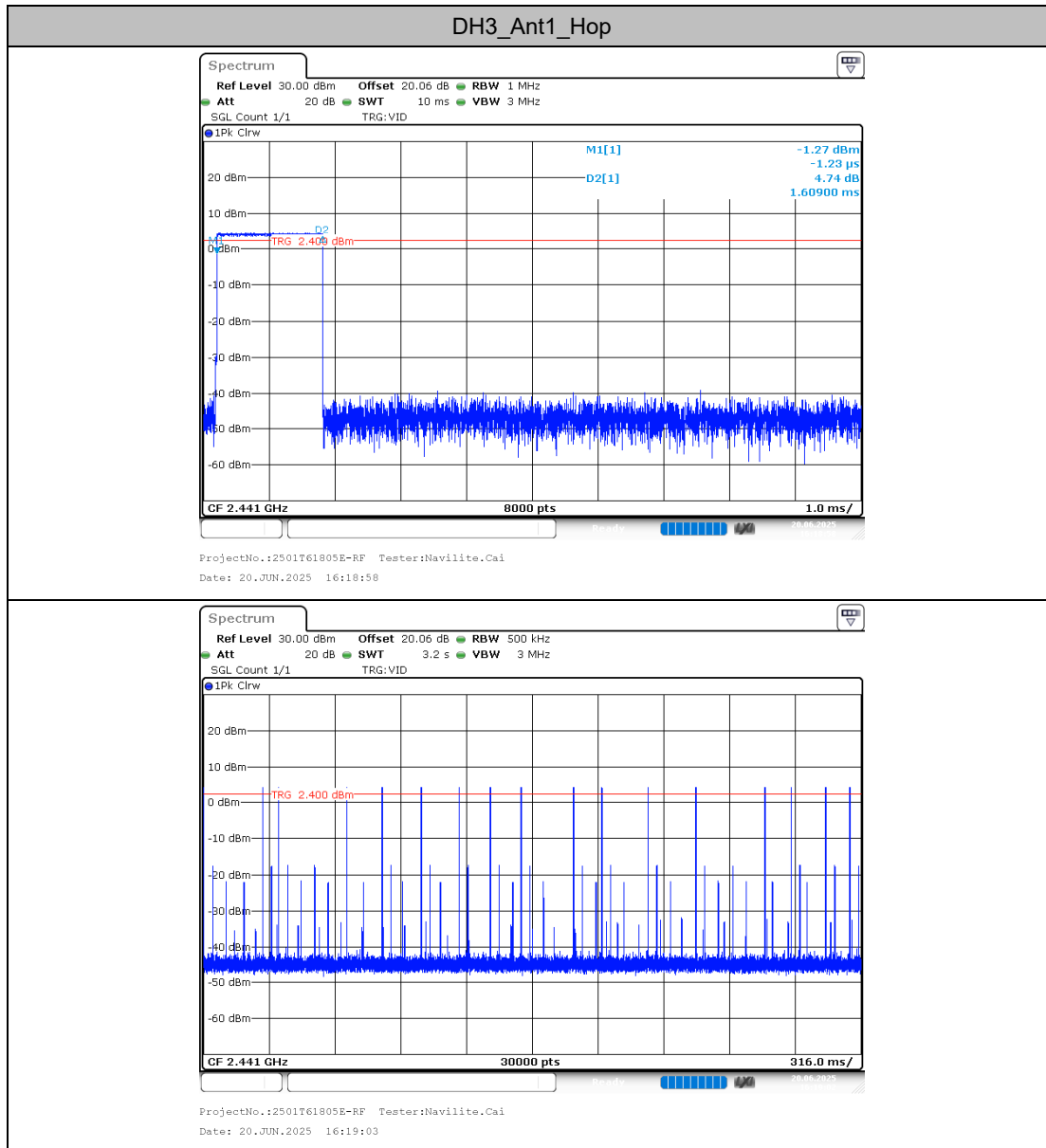
Note 1: A period time= $0.4 \times 79 = 31.6(S)$, Result=Burst Width*Total hops

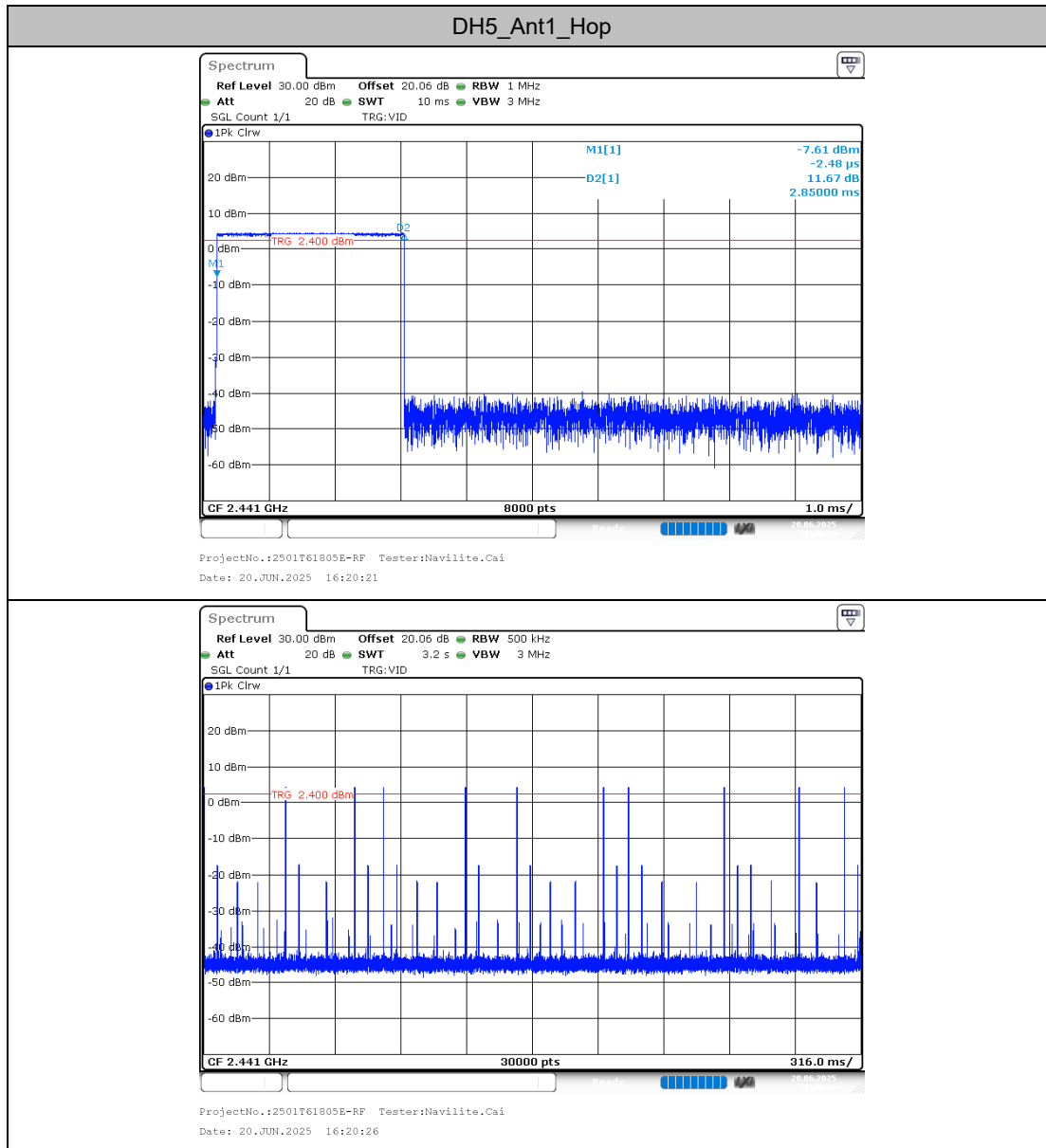
Note 2: Total hops=Hopping Number in $3.16s \times 10$

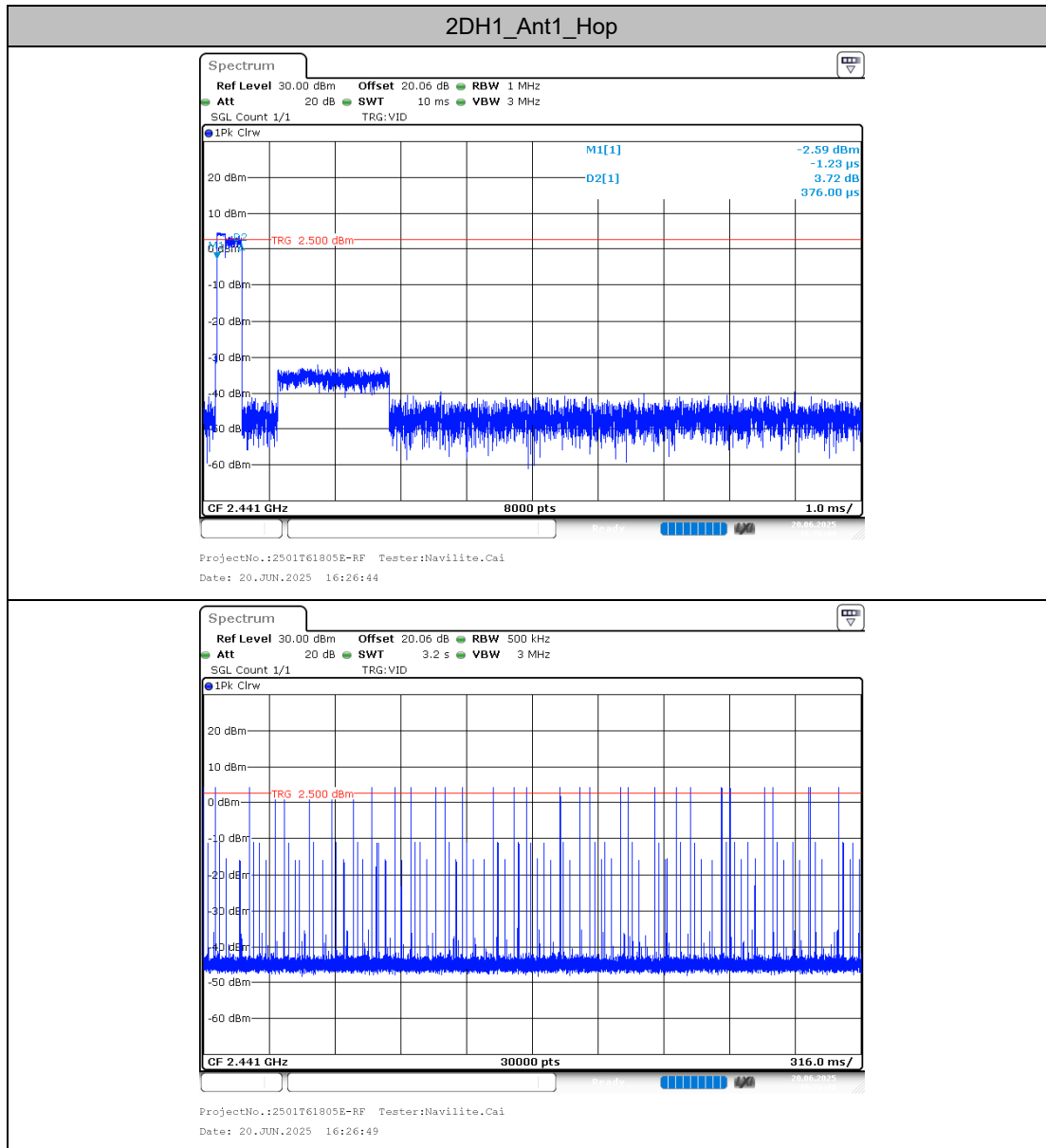
Note 3: Hopping Number in $3.16s$ =Total of highest signals in $3.16s$ (Second high signals were other channel)

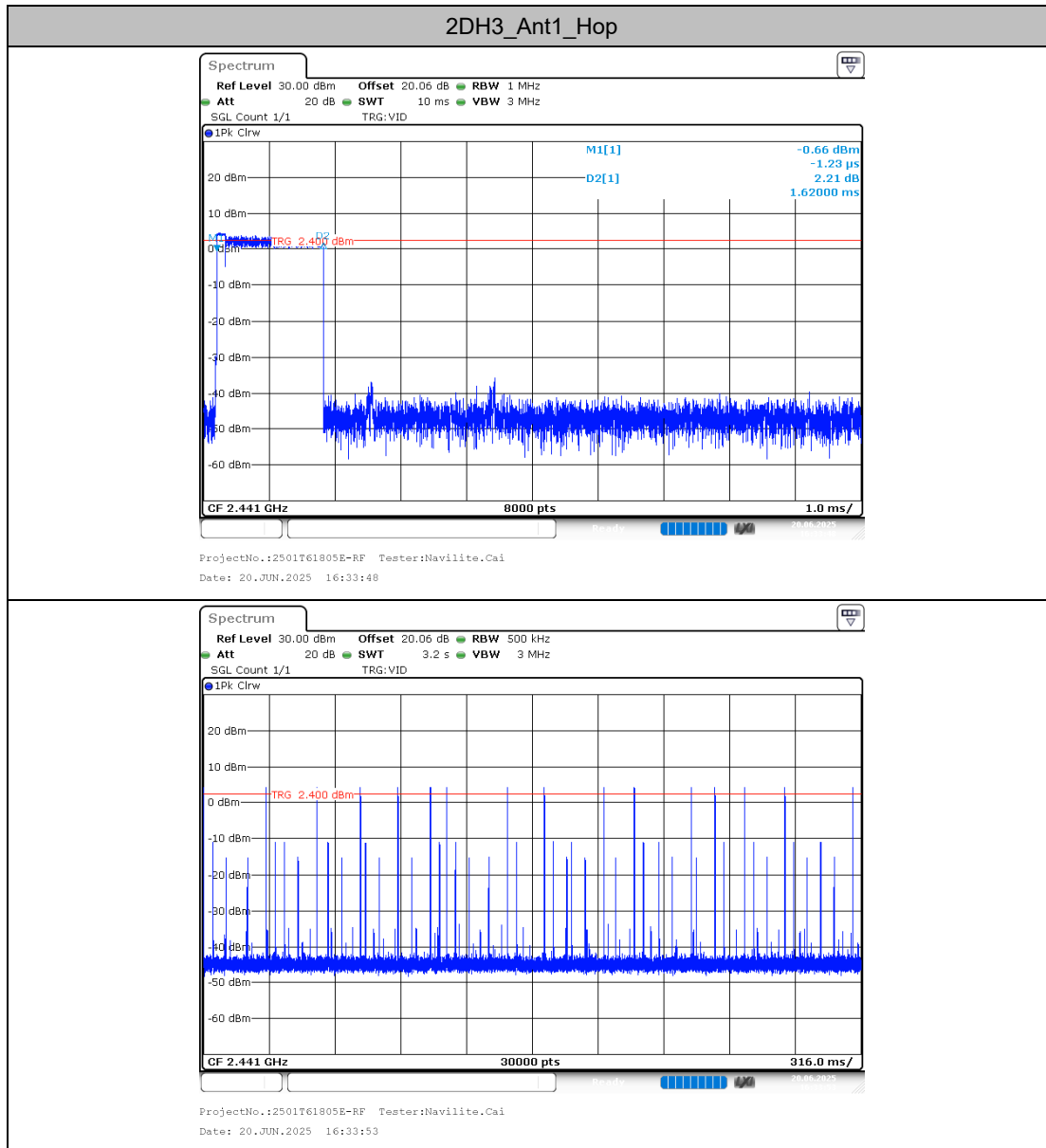
Test Graphs

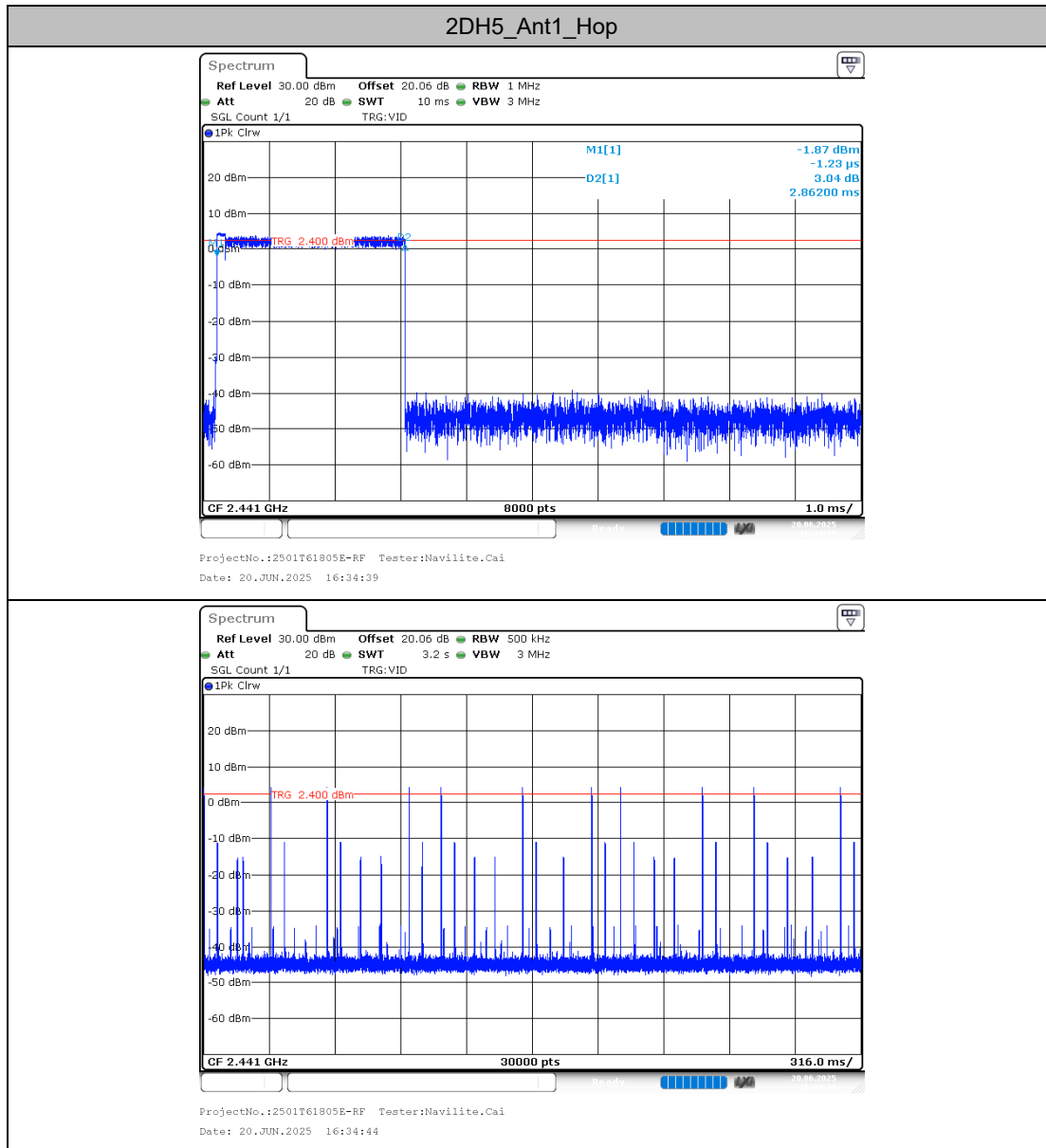


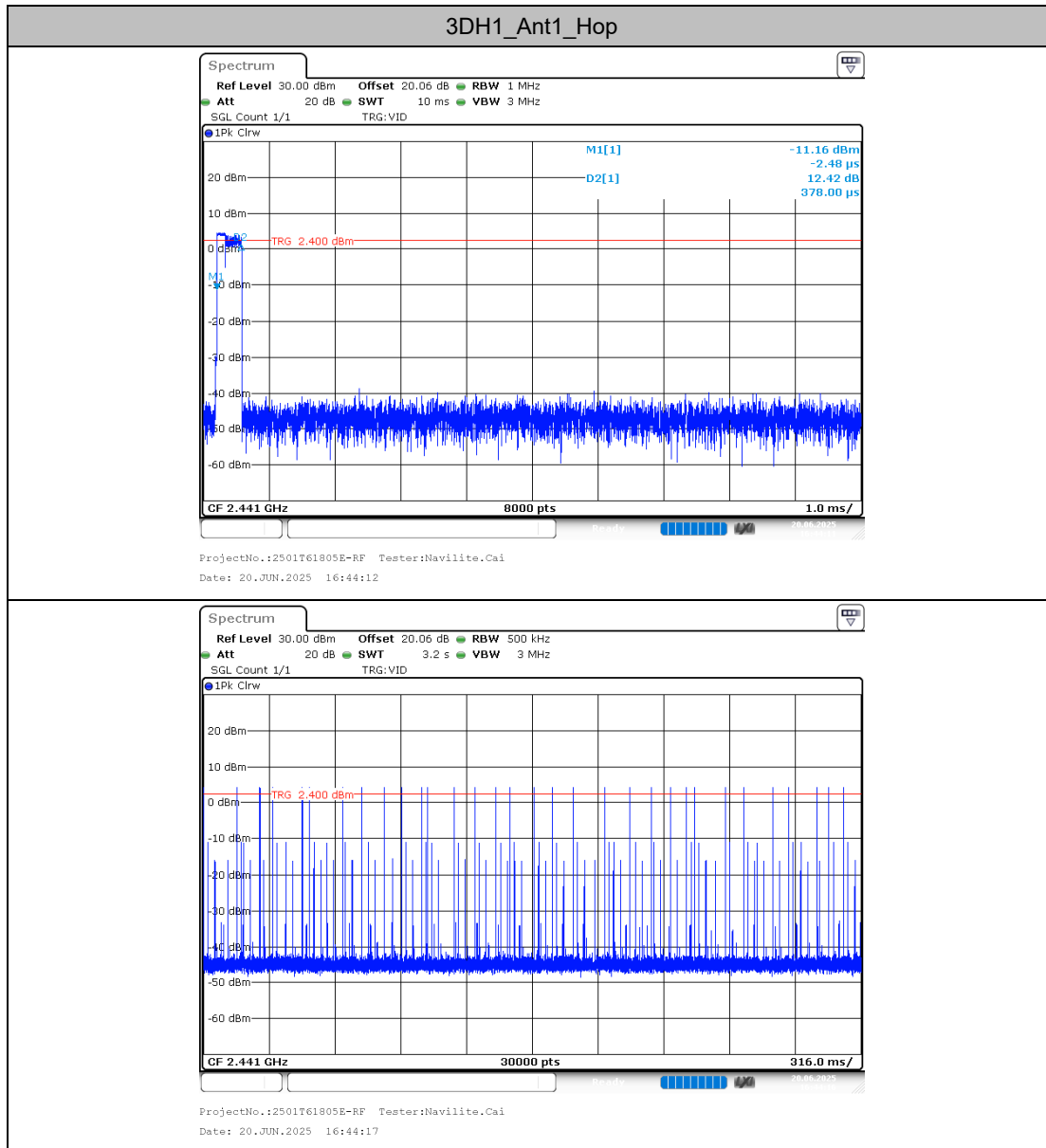


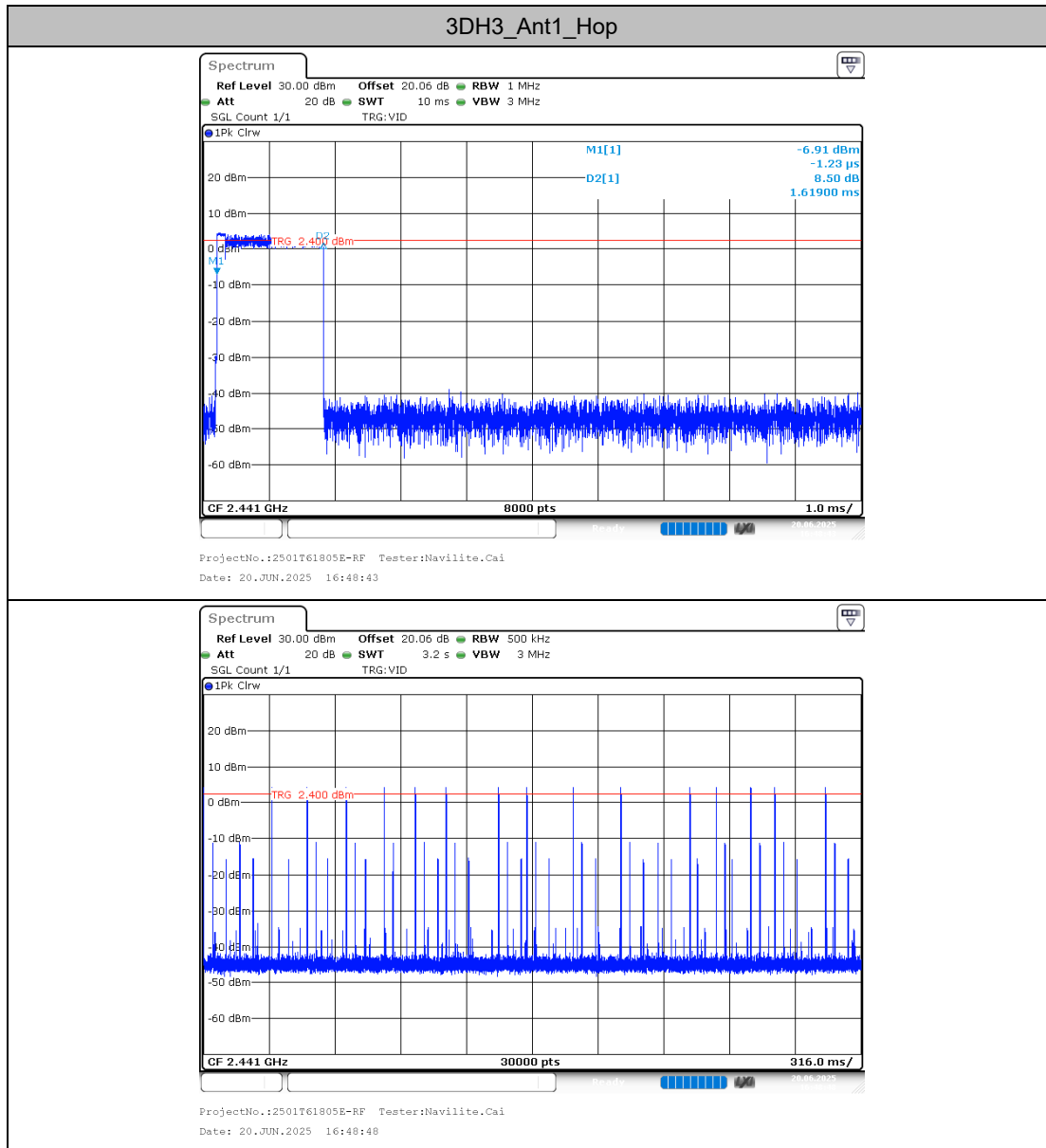


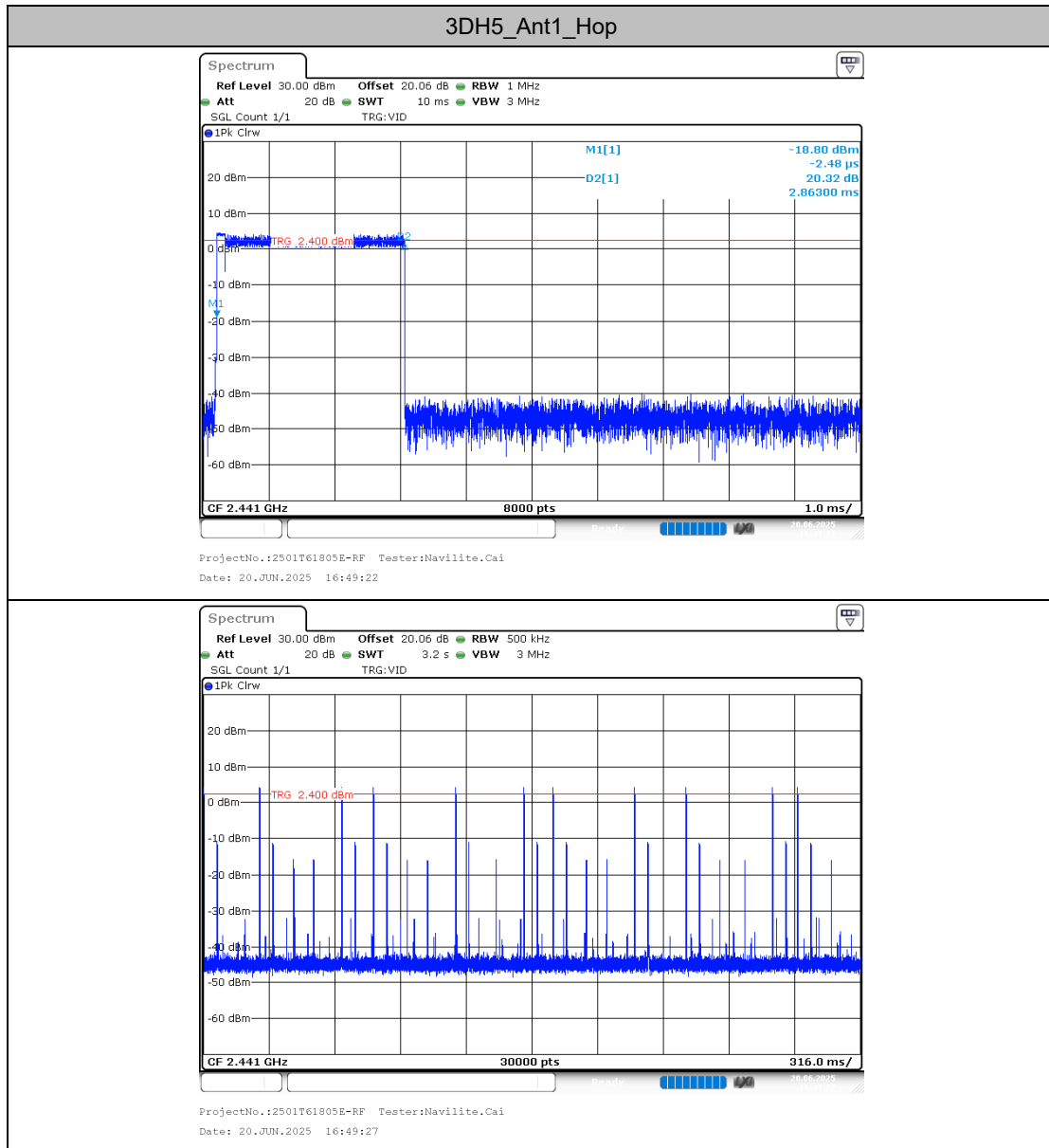










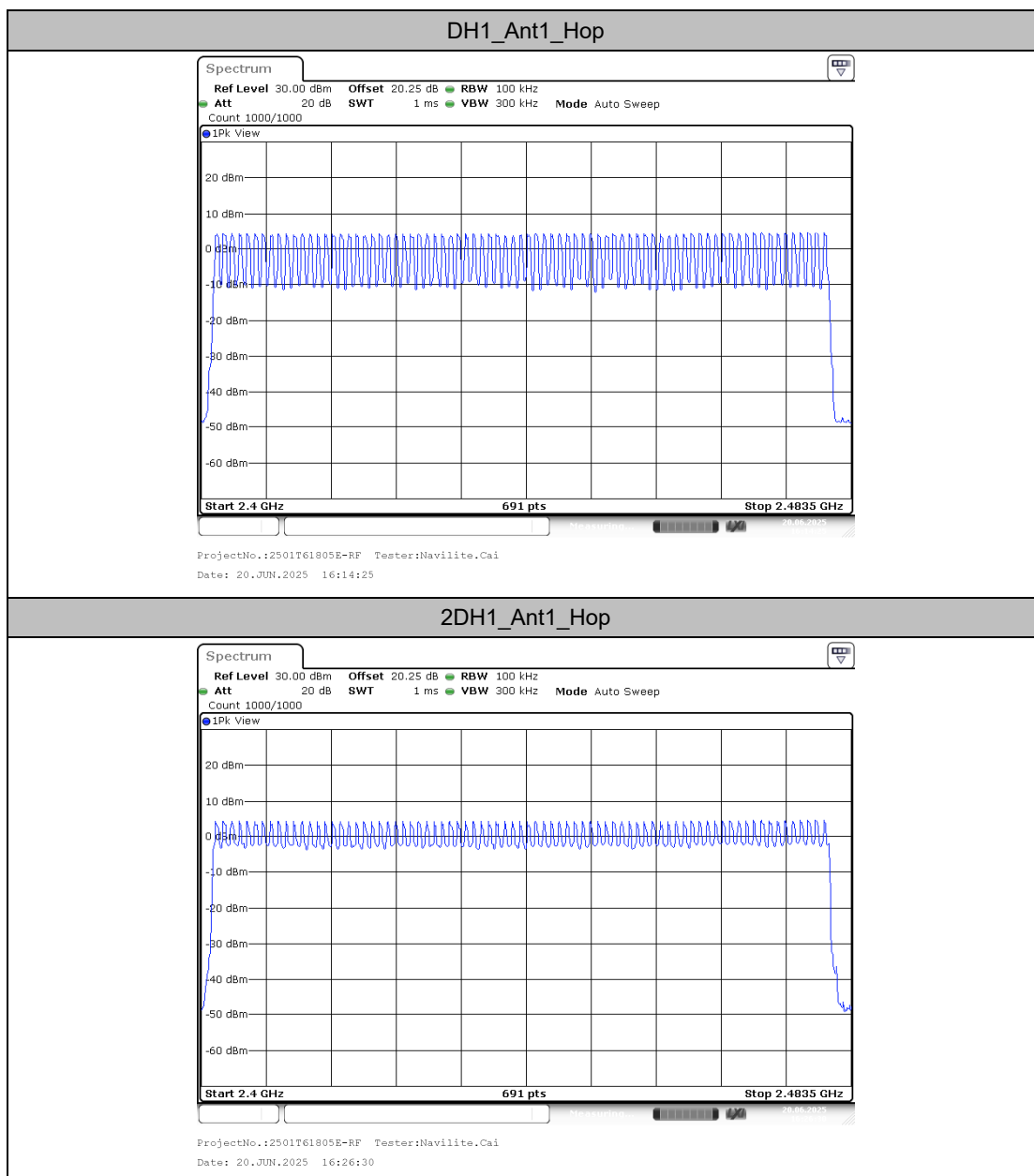


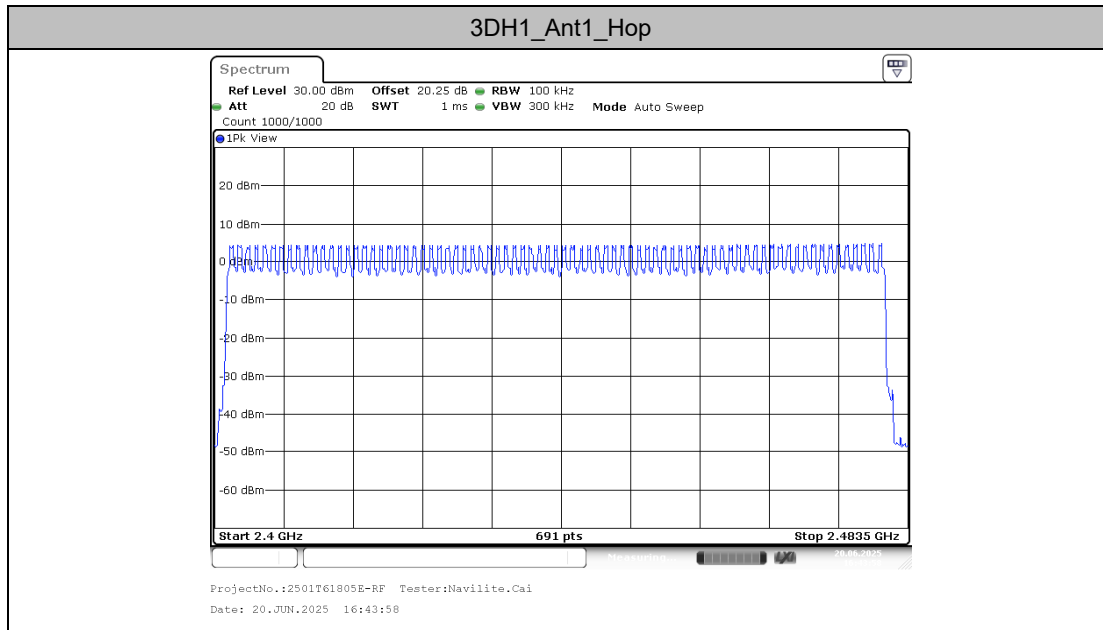
Number of hopping channels

Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
GFSK_ DH1	Ant1	Hop	79	≥15	PASS
$\pi/4$ -DQPSK_ 2DH1	Ant1	Hop	79	≥15	PASS
8DPSK_ 3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs





Band edge measurements

Test Graphs

