

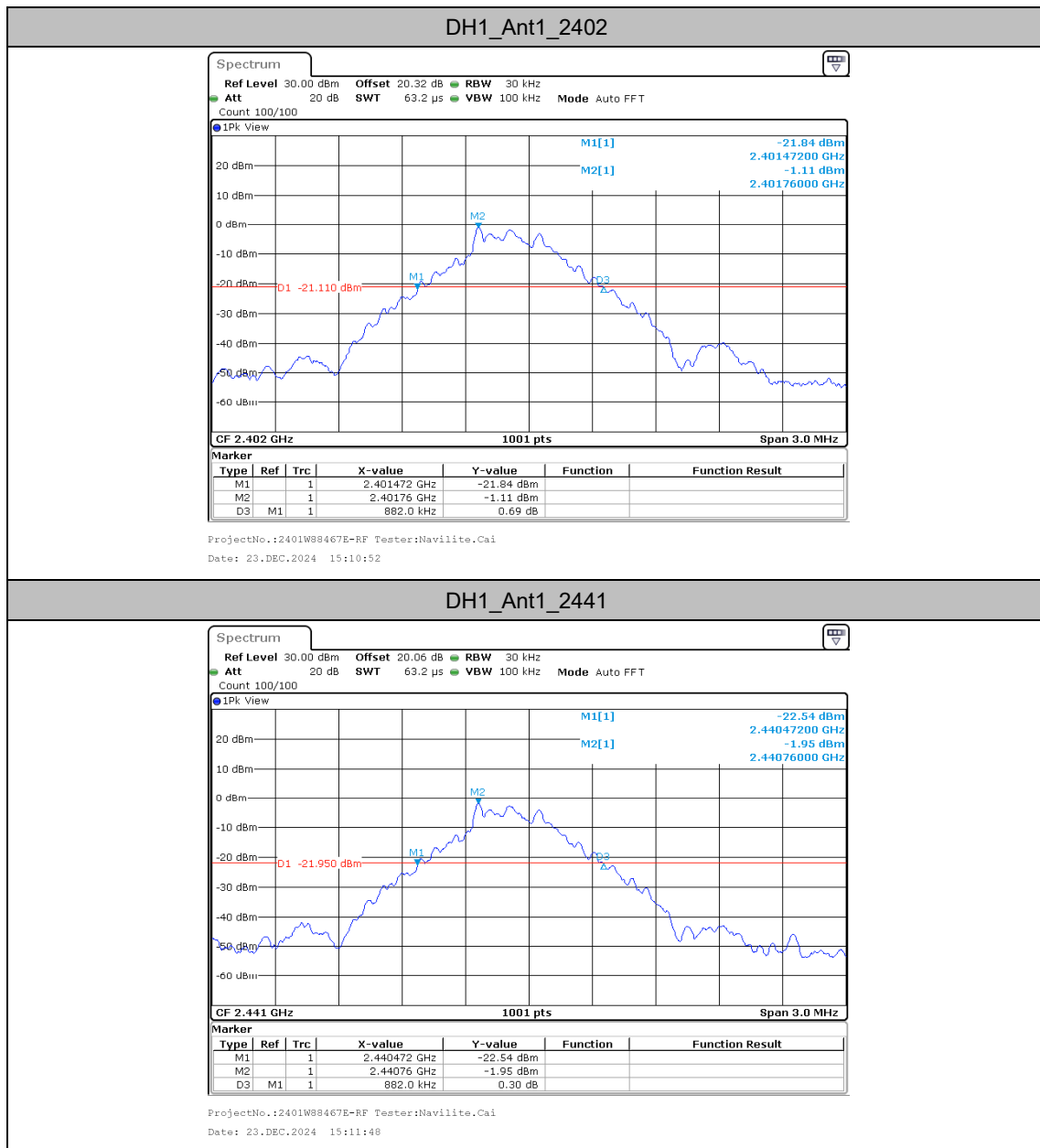
Project No.:	2401W88467E-RF
EUT Number:	2PC5-1
Operating Mode:	Transmitting
Teststandard	FCC Part 15.247/RSS-247
Test Conditions:	Temperature: <u>25-28</u> °C Relative Humidity: <u>55-57</u> % ATM Pressure: <u>101</u> kPa
Test Engineer:	<i>Navilife . Cai</i>
Test Date:	2024-12-21~2024-12-23

Appendix A: 20dB Emission Bandwidth

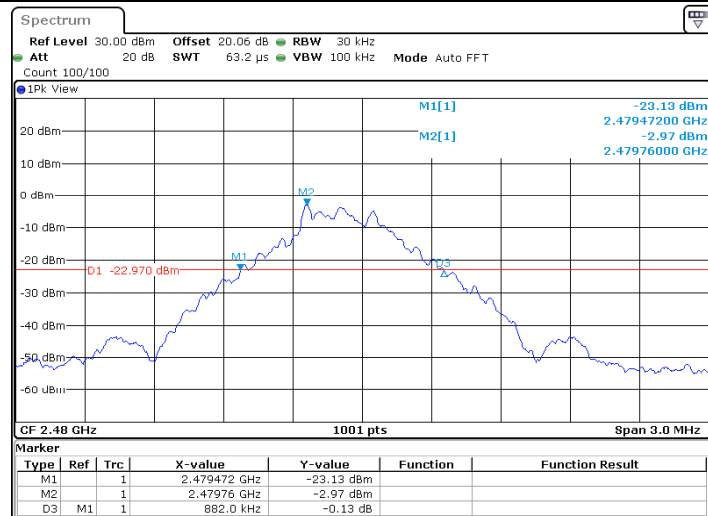
Test Result

Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.882	2401.472	2402.354	---	---
		2441	0.882	2440.472	2441.354	---	---
		2480	0.882	2479.472	2480.354	---	---
2DH1	Ant1	2402	1.245	2401.295	2402.54	---	---
		2441	1.245	2440.295	2441.54	---	---
		2480	1.248	2479.292	2480.54	---	---
3DH1	Ant1	2402	1.242	2401.307	2402.549	---	---
		2441	1.221	2440.325	2441.546	---	---
		2480	1.239	2479.307	2480.546	---	---

Test Graphs



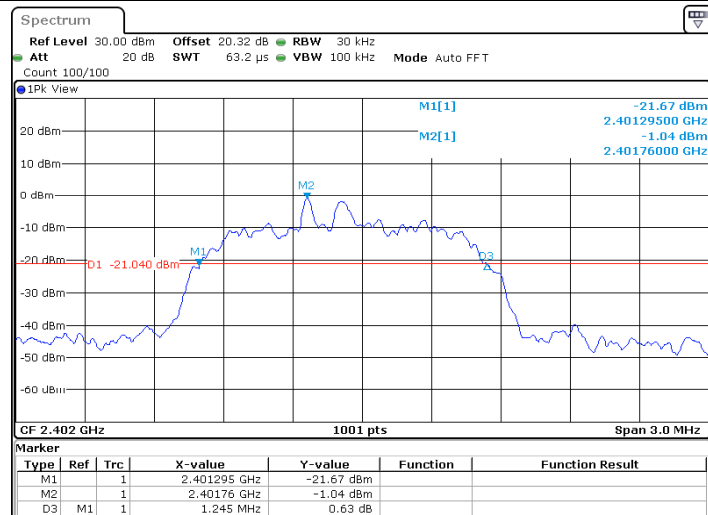
DH1_Ant1_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 23.DEC.2024 15:12:27

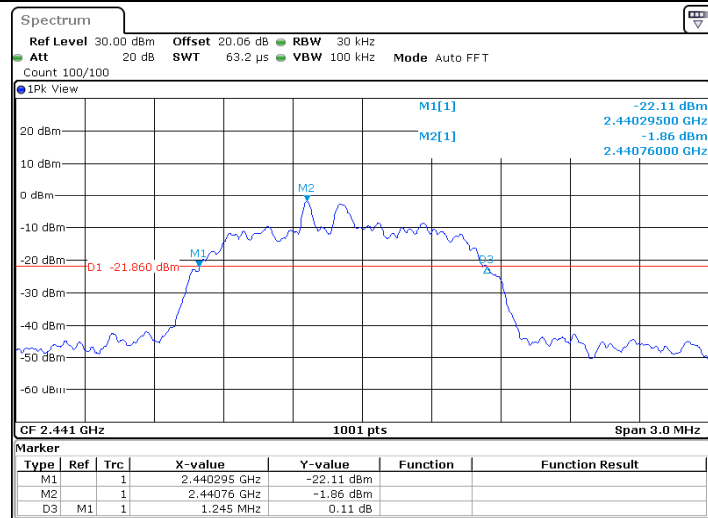
2DH1_Ant1_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 23.DEC.2024 15:13:03

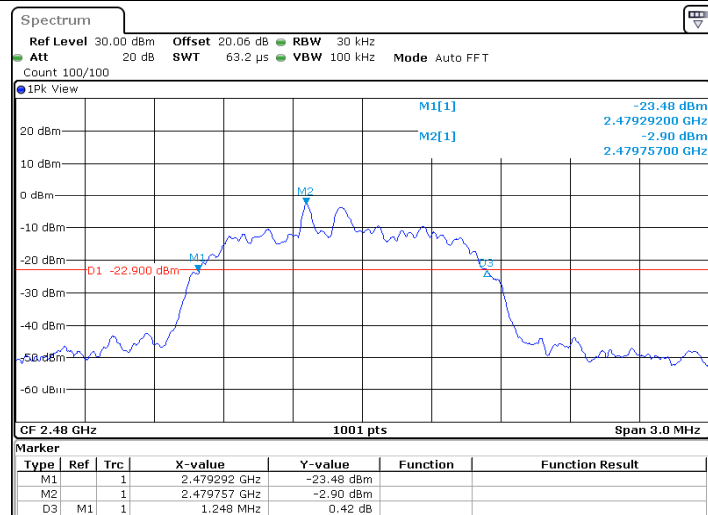
2DH1_Ant1_2441



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 23.DEC.2024 15:13:33

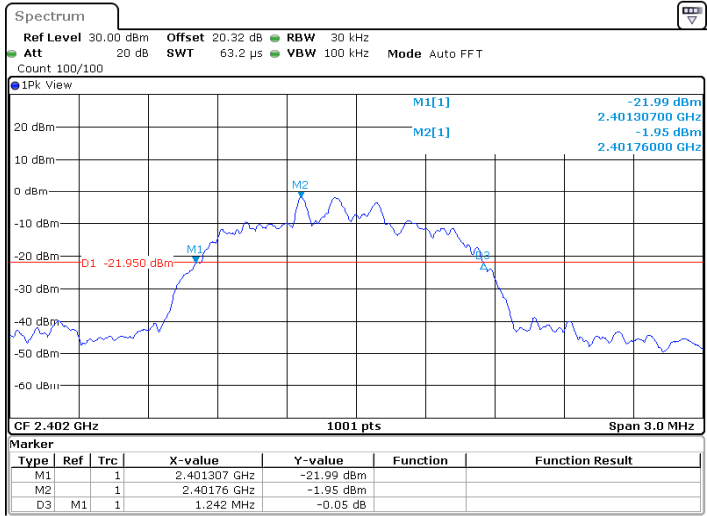
2DH1_Ant1_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

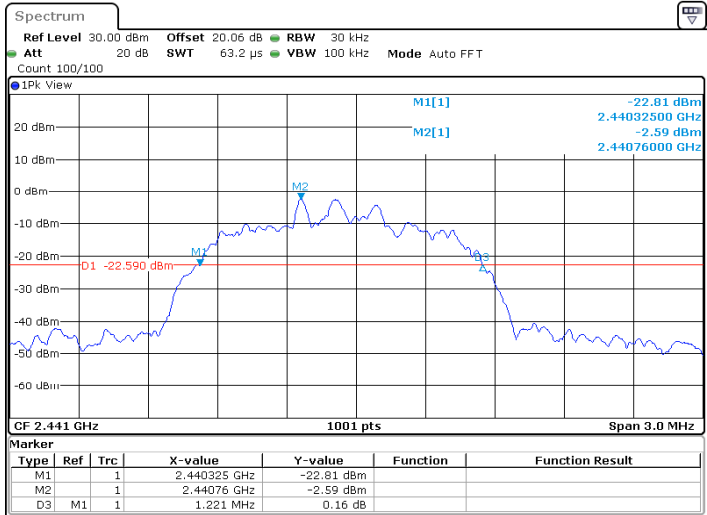
Date: 23.DEC.2024 15:14:06

3DH1_Ant1_2402

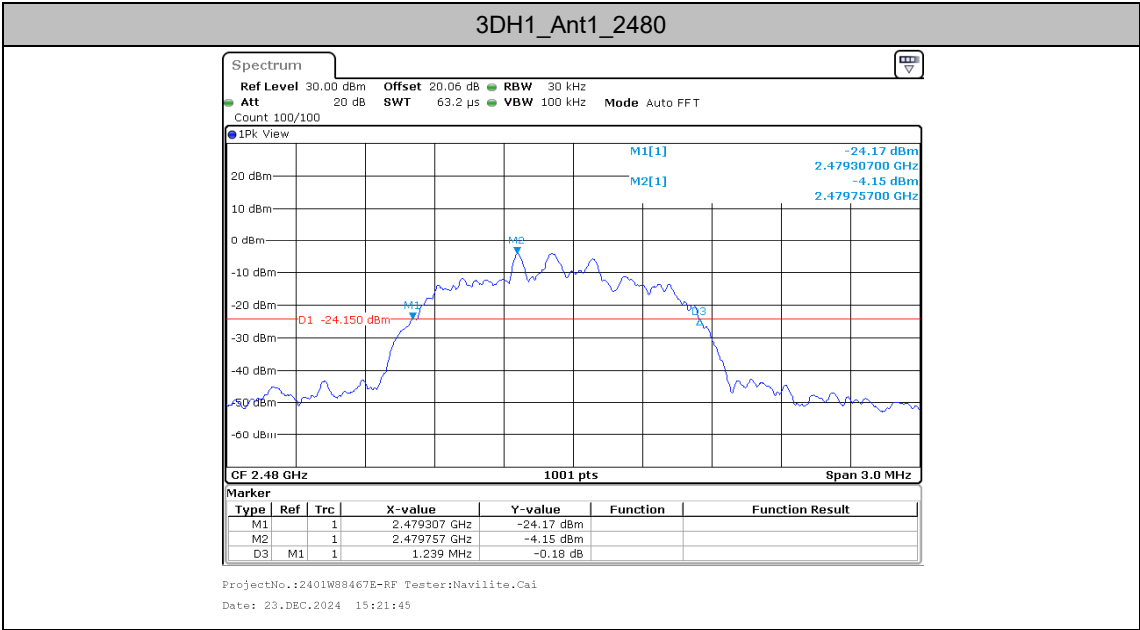


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:14:54

3DH1_Ant1_2441



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:15:32

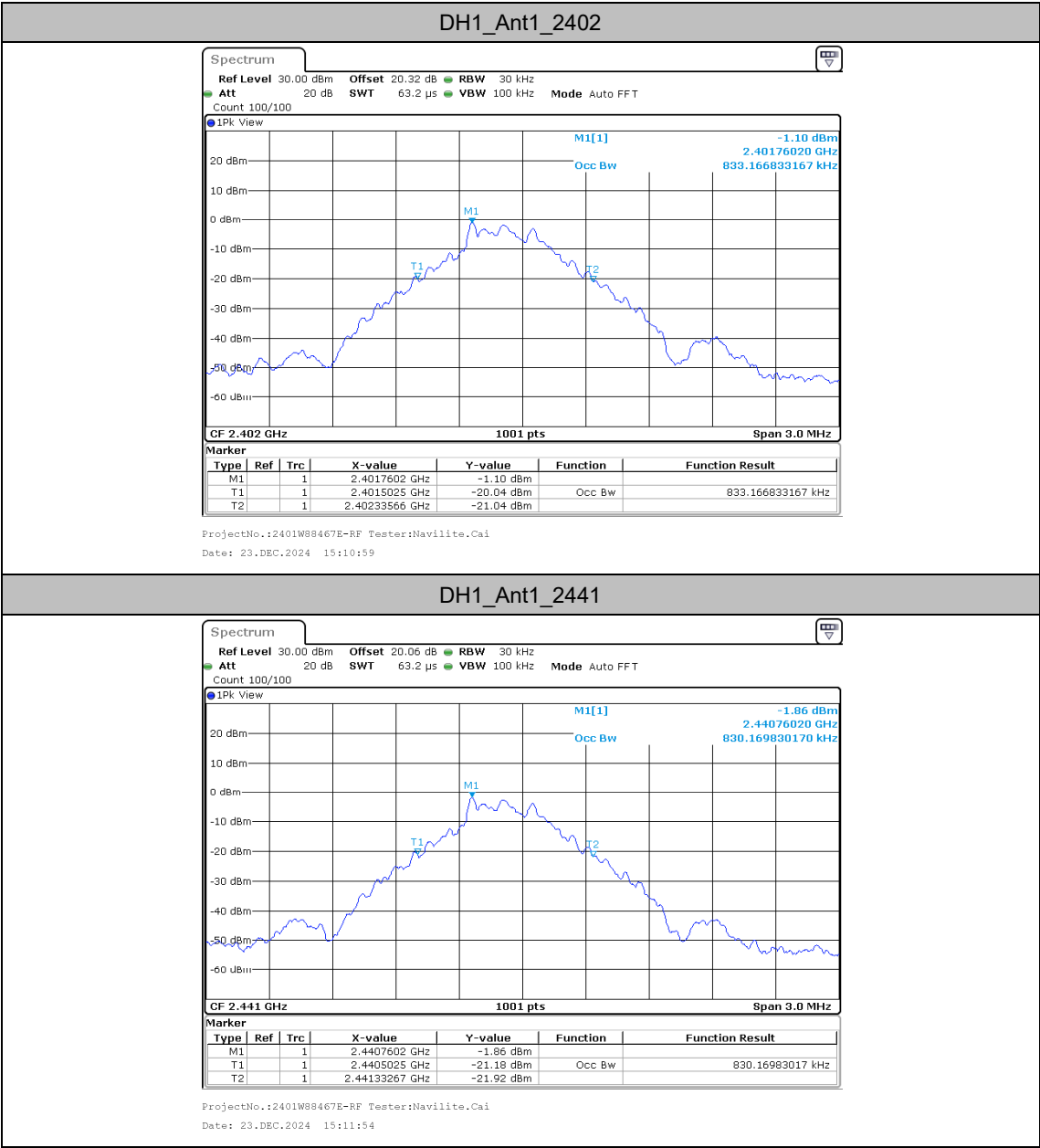


Appendix B: Occupied Channel Bandwidth

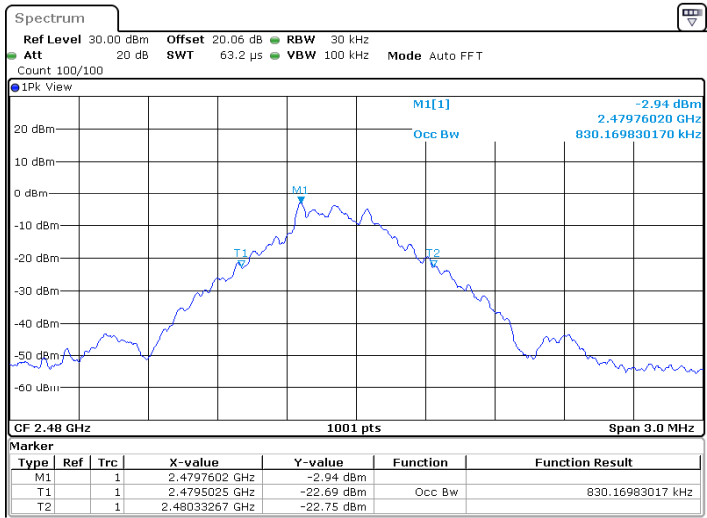
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.833	2401.5025	2402.3357	---	---
		2441	0.83	2440.5025	2441.3327	---	---
		2480	0.83	2479.5025	2480.3327	---	---
2DH1	Ant1	2402	1.166	2401.3347	2402.5005	---	---
		2441	1.166	2440.3317	2441.4975	---	---
		2480	1.166	2479.3317	2480.4975	---	---
3DH1	Ant1	2402	1.154	2401.3556	2402.5095	---	---
		2441	1.151	2440.3556	2441.5065	---	---
		2480	1.148	2479.3556	2480.5035	---	---

Test Graphs

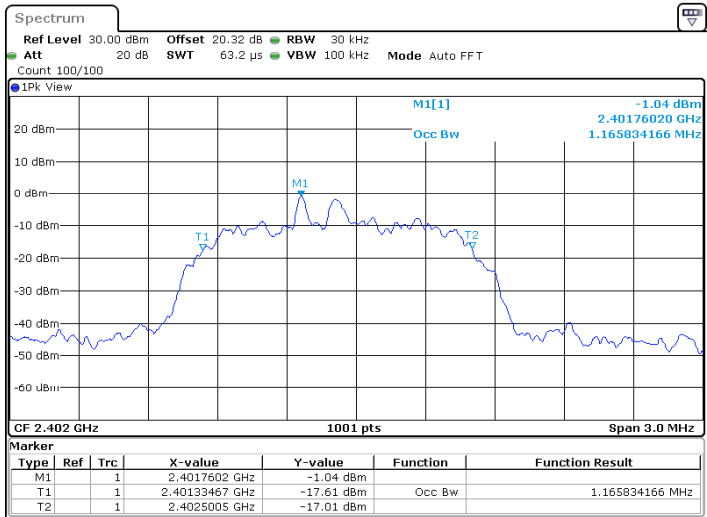


DH1_Ant1_2480



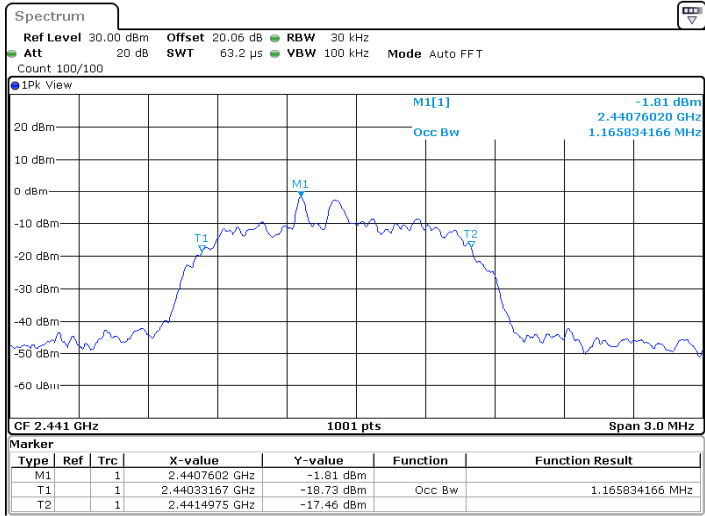
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:12:33

2DH1_Ant1_2402



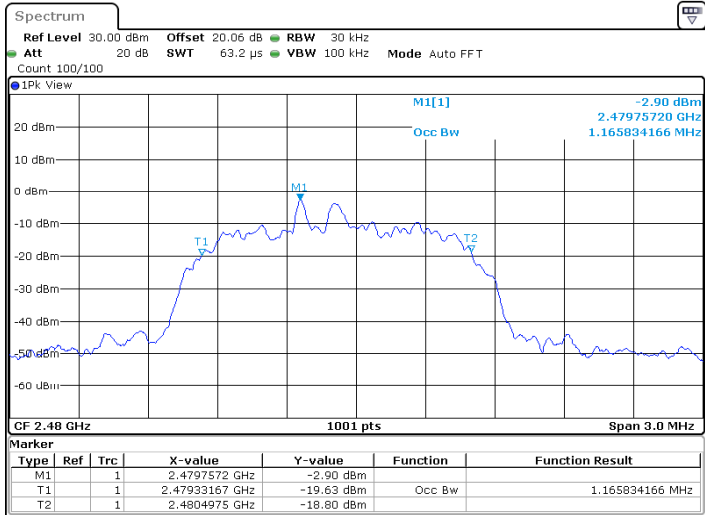
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:13:09

2DH1_Ant1_2441



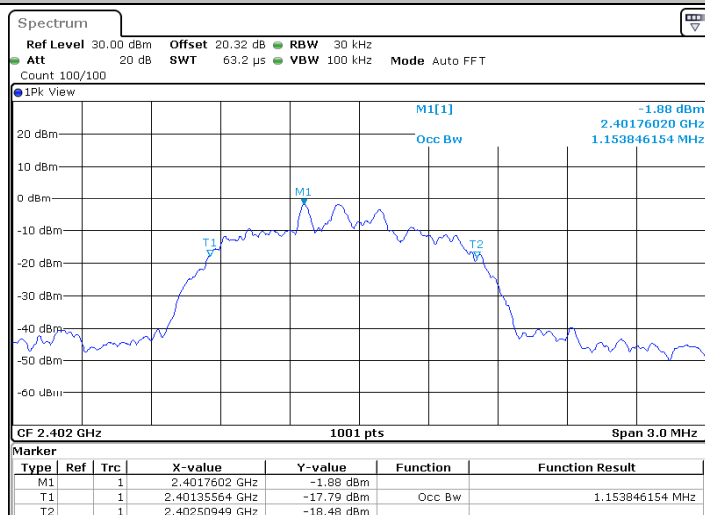
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:13:39

2DH1_Ant1_2480



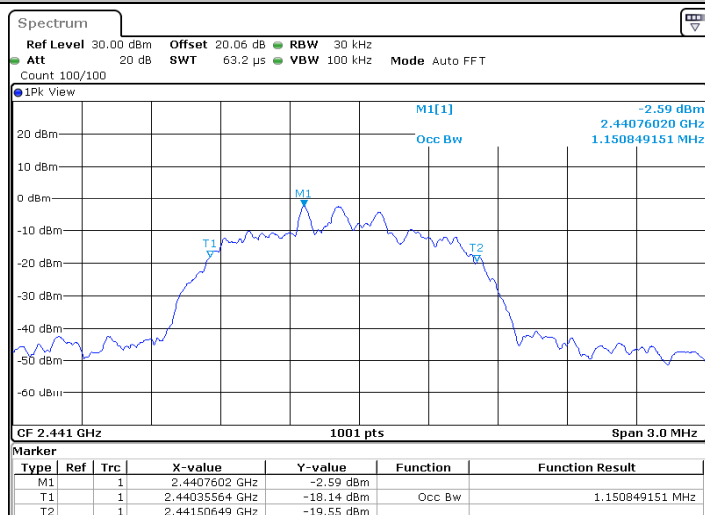
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:14:12

3DH1_Ant1_2402

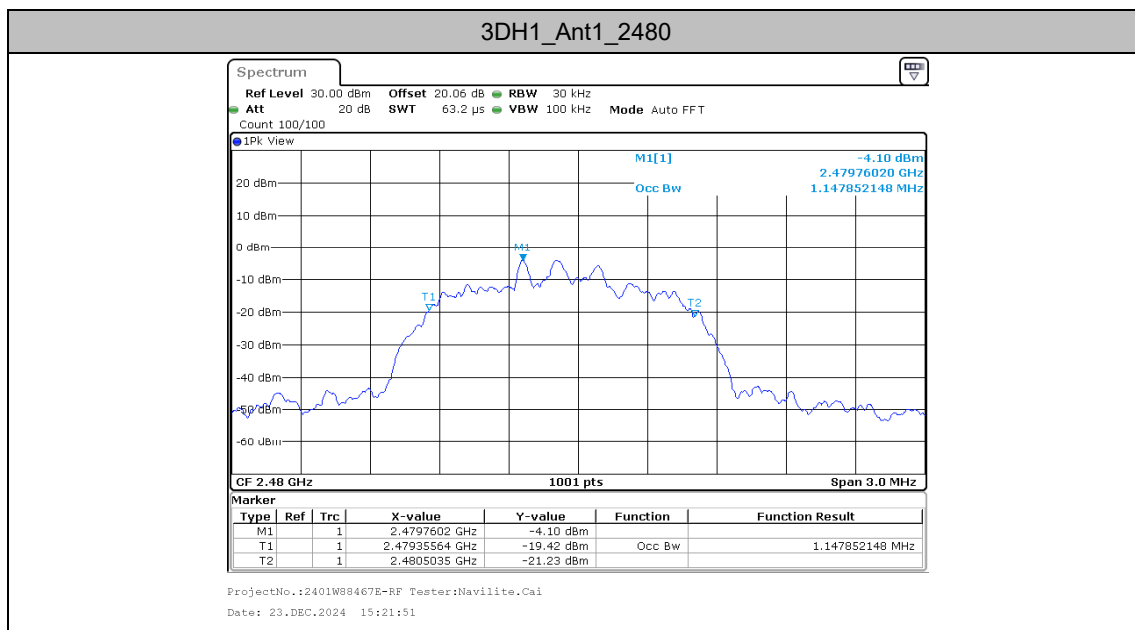


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:15:00

3DH1_Ant1_2441



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:15:38

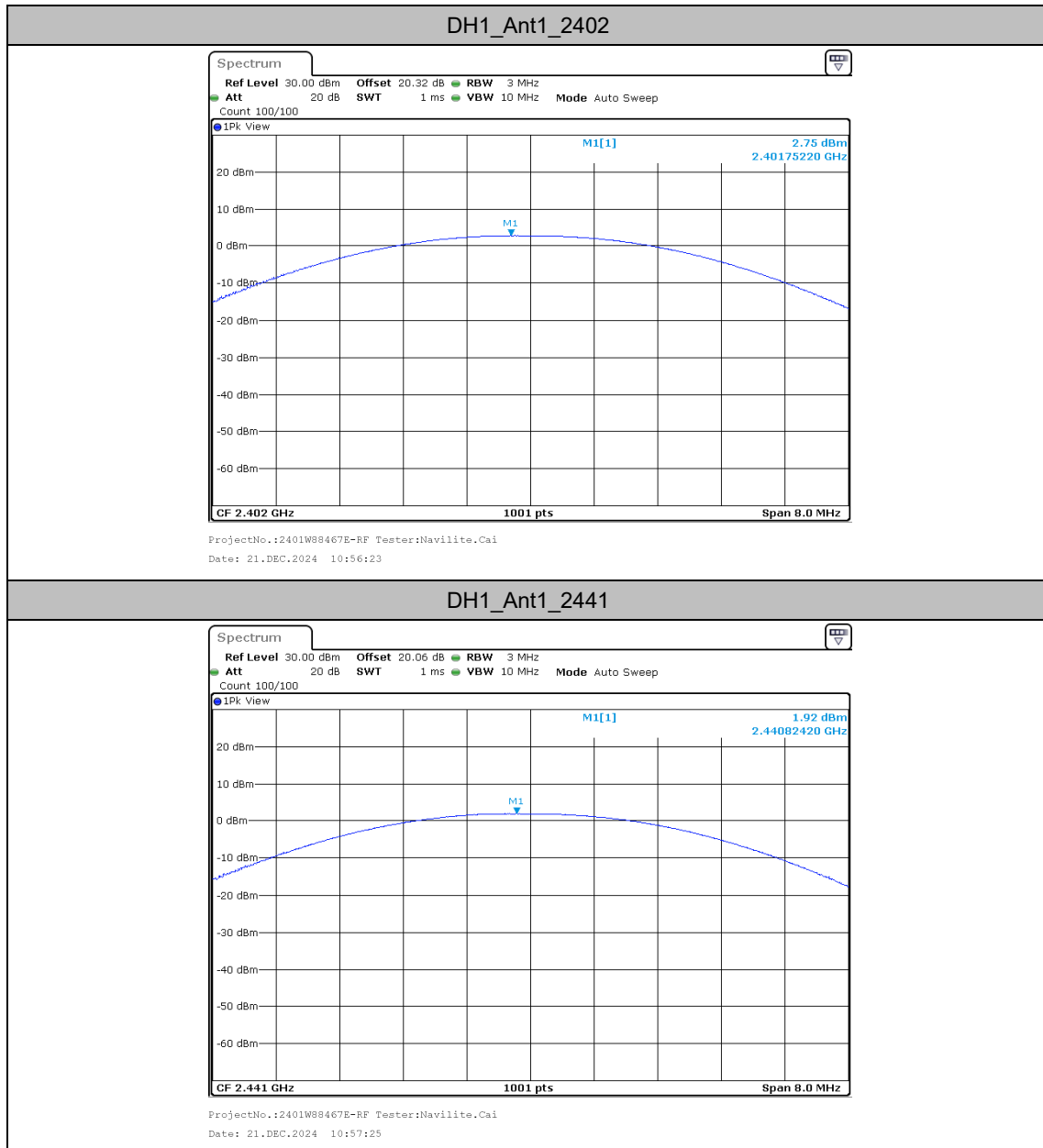


Appendix C: Maximum Conducted Output Power

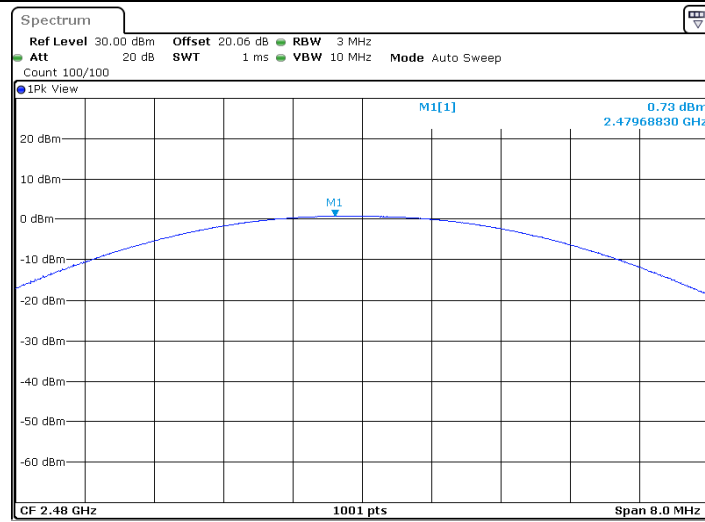
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	2.75	≤20.97	2.07	≤36	PASS
		2441	1.92	≤20.97	1.24	≤36	PASS
		2480	0.73	≤20.97	0.05	≤36	PASS
2DH1	Ant1	2402	3.24	≤20.97	2.56	≤36	PASS
		2441	2.54	≤20.97	1.86	≤36	PASS
		2480	1.51	≤20.97	0.83	≤36	PASS
3DH1	Ant1	2402	3.63	≤20.97	2.95	≤36	PASS
		2441	2.99	≤20.97	2.31	≤36	PASS
		2480	1.97	≤20.97	1.29	≤36	PASS

Test Graphs

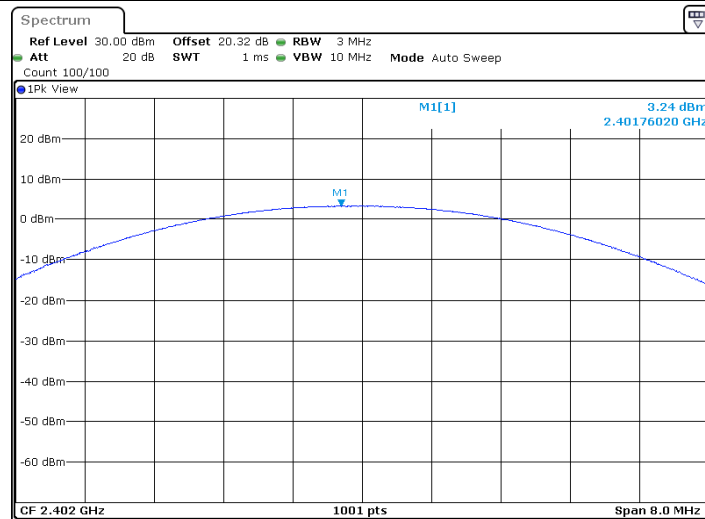


DH1_Ant1_2480



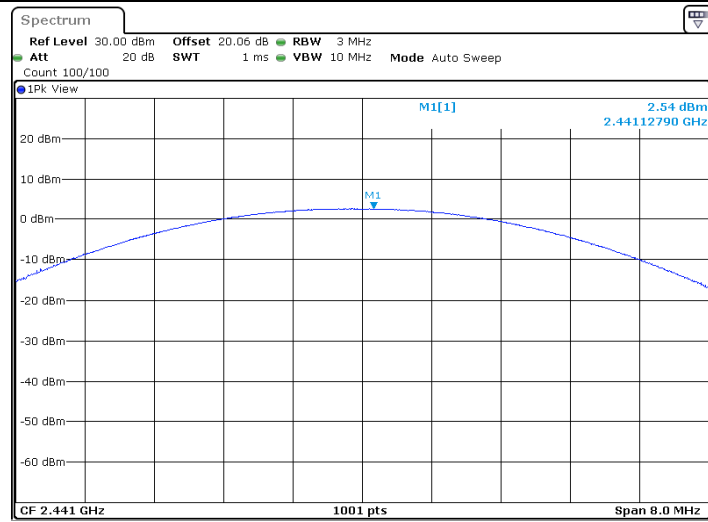
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 10:58:09

2DH1_Ant1_2402



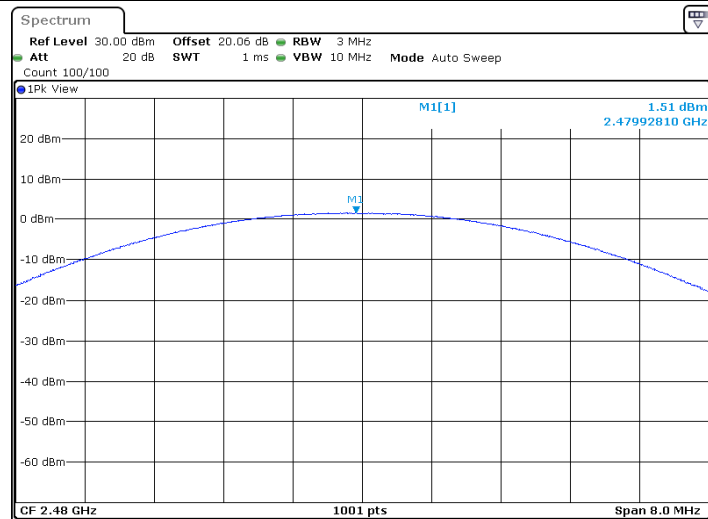
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 10:50:31

2DH1_Ant1_2441



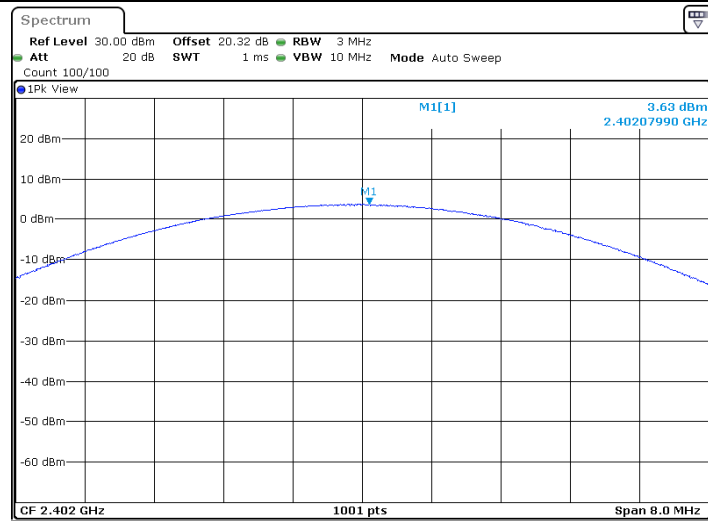
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 10:51:30

2DH1_Ant1_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 10:52:10

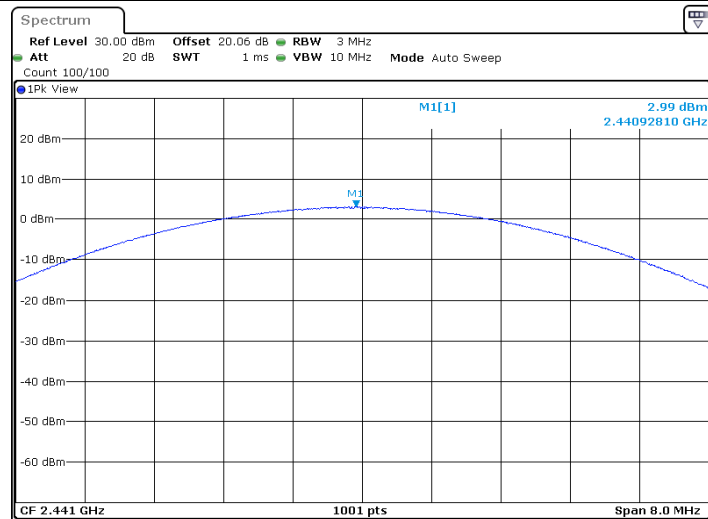
3DH1_Ant1_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

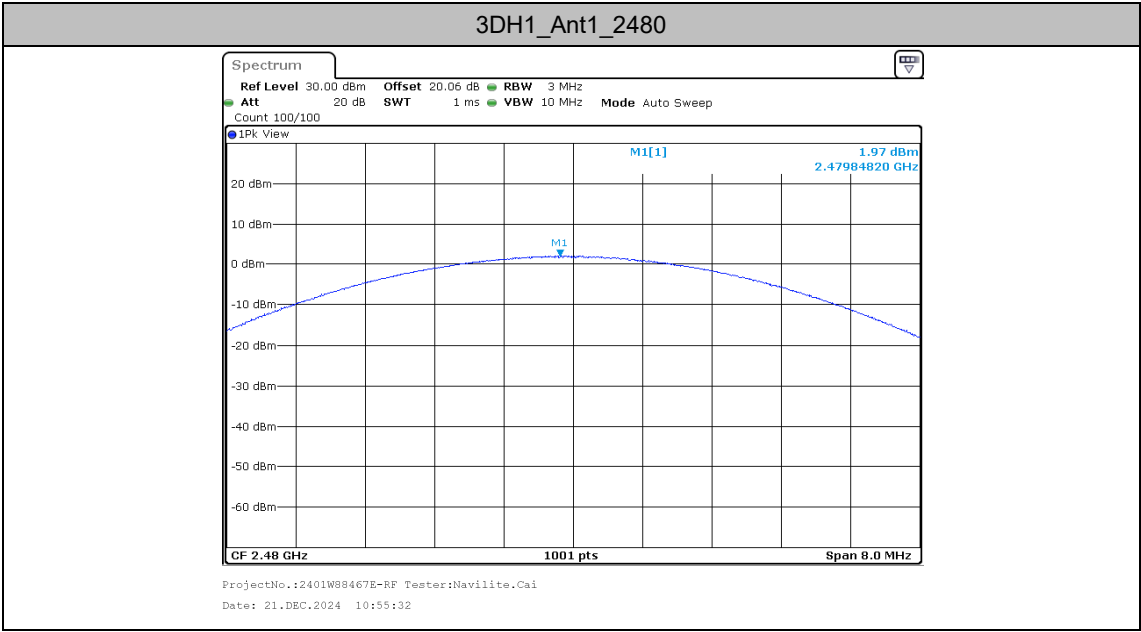
Date: 21.DEC.2024 10:53:20

3DH1_Ant1_2441



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 10:54:36



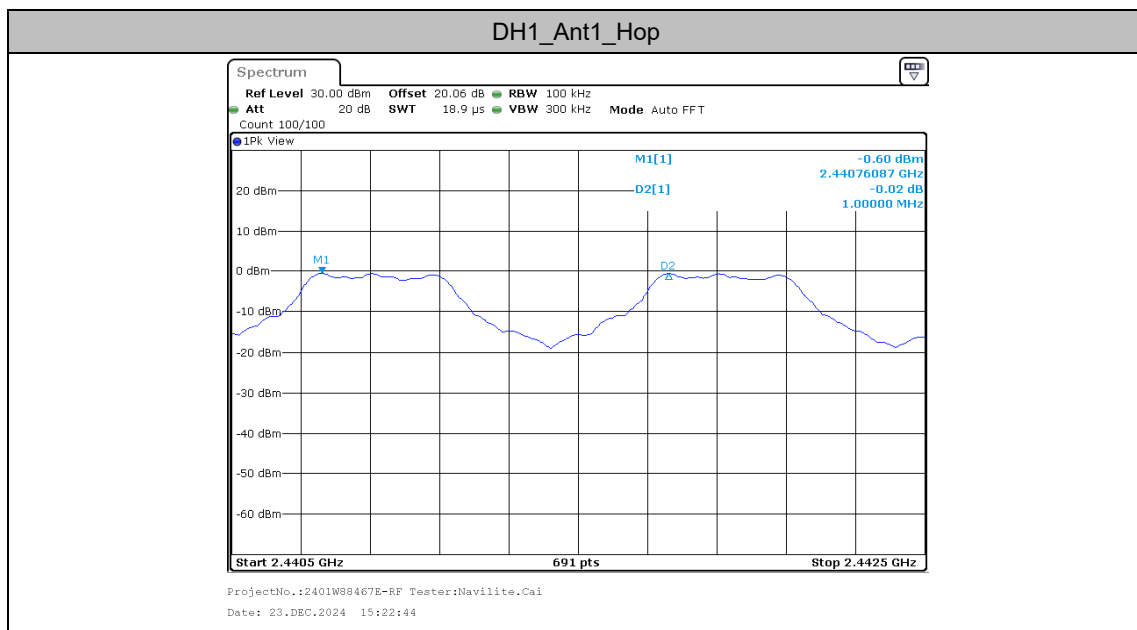
Appendix D: Carrier Frequency Separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1	≥0.832	PASS

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

Test Graphs



Appendix E: Time Of Occupancy

Test Result

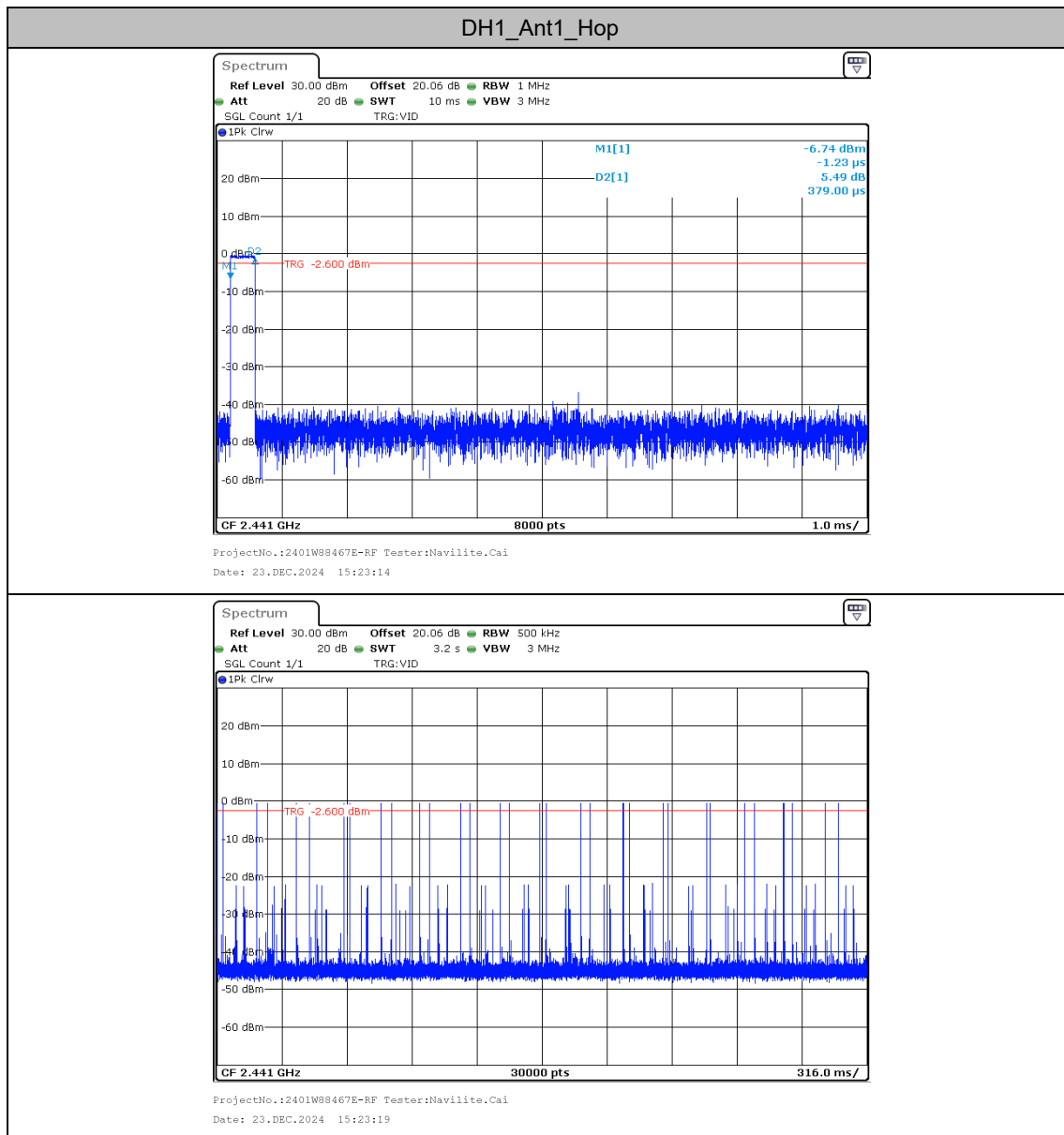
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.628	180	0.293	≤0.4	PASS
DH5	Ant1	Hop	2.868	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.633	150	0.245	≤0.4	PASS
2DH5	Ant1	Hop	2.873	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.875	110	0.316	≤0.4	PASS

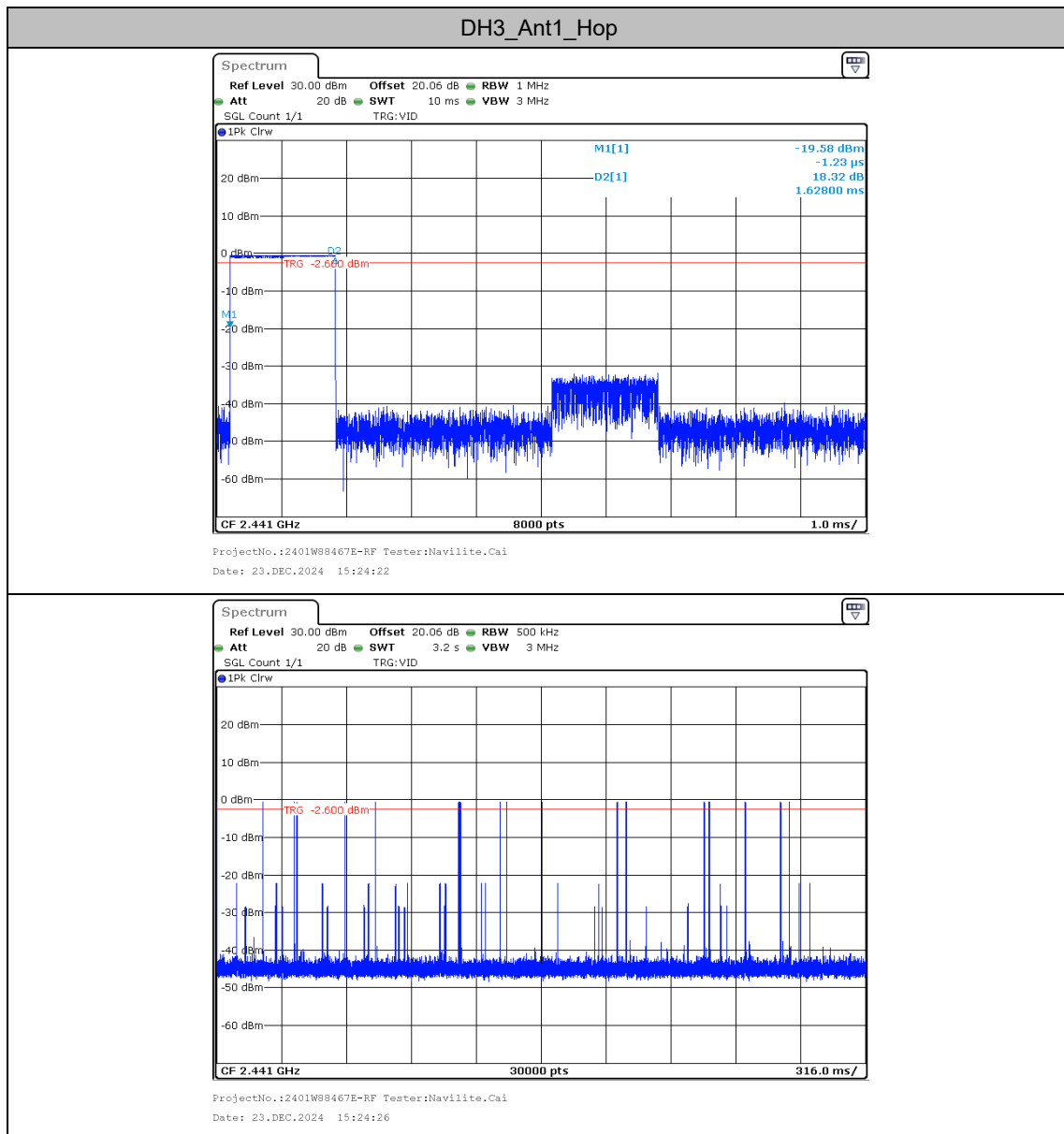
Note 1: A period time= $0.4 \times 79 = 31.6(S)$, Result=Burst Width*Total Hops

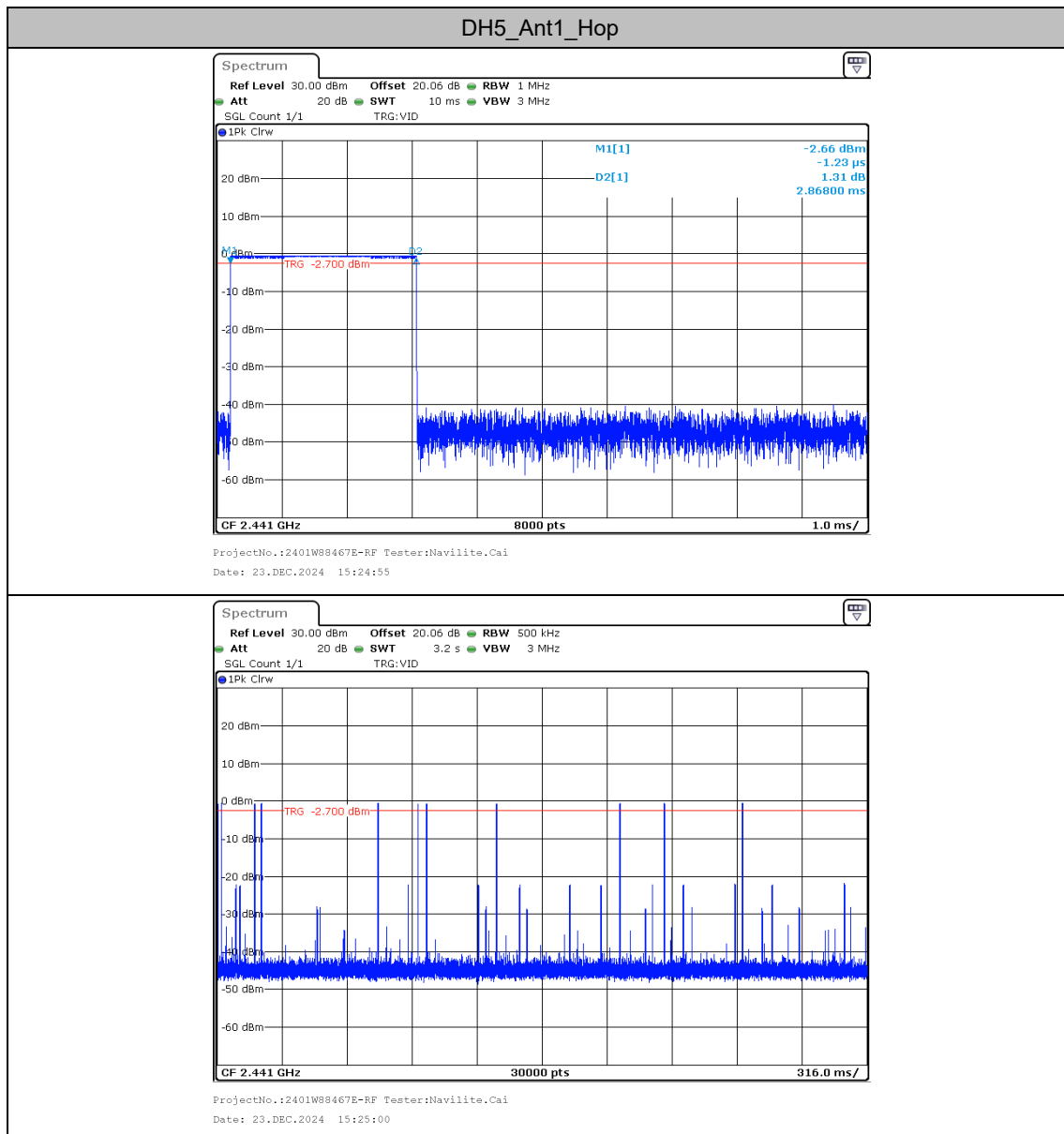
Note 2: Total Hhops=Hopping Number in $3.16s \times 10$

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

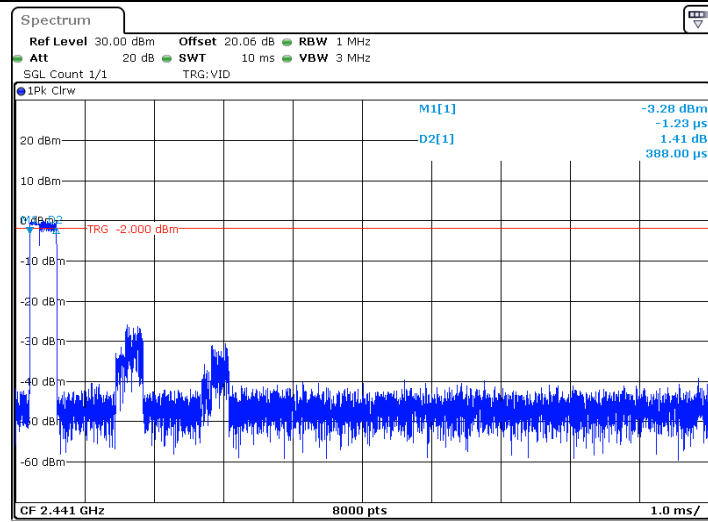
Test Graphs



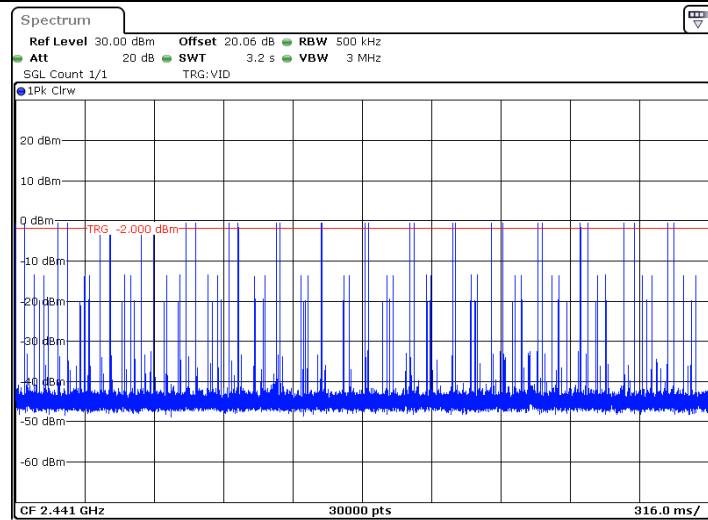




2DH1_Ant1_Hop

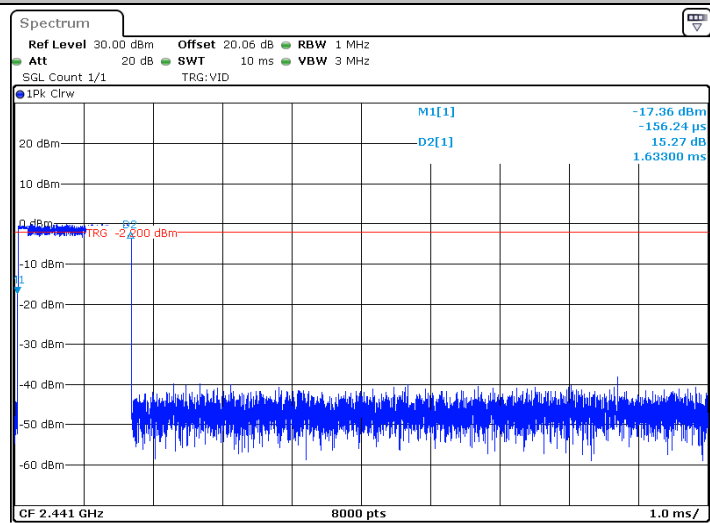


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:26:53

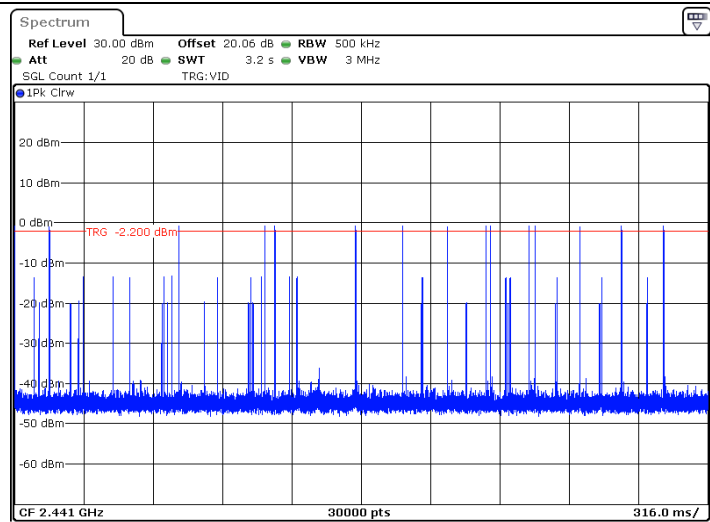


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:26:58

2DH3_Ant1_Hop

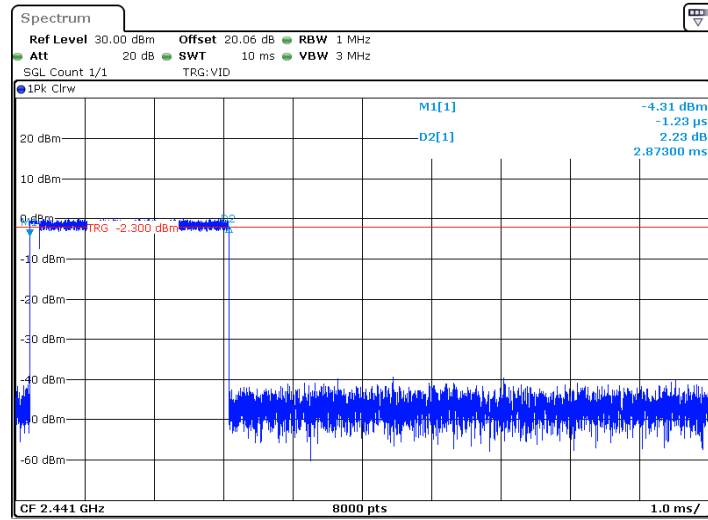


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:31:38



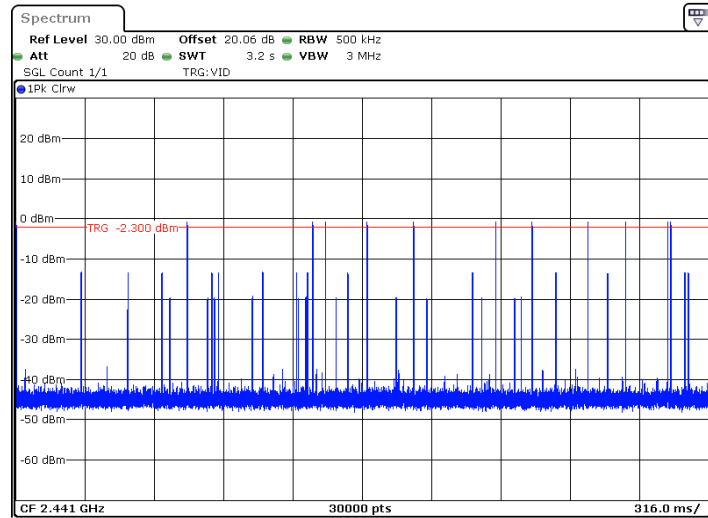
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:31:42

2DH5_Ant1_Hop



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

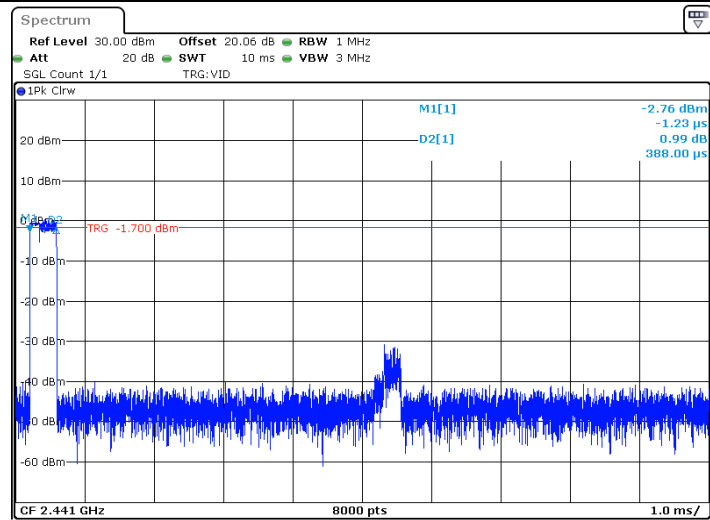
Date: 23.DEC.2024 15:29:17



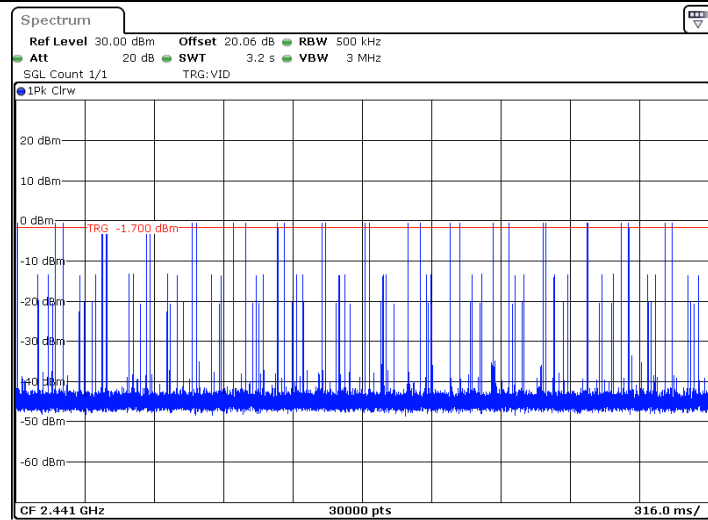
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 23.DEC.2024 15:29:22

3DH1_Ant1_Hop

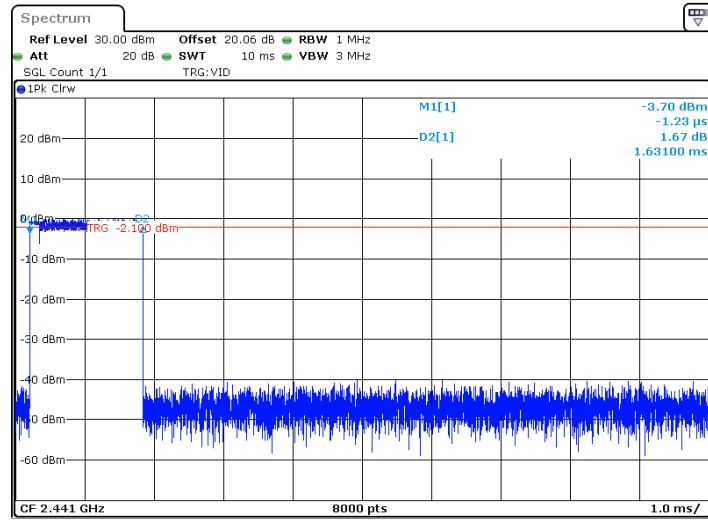


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:33:00



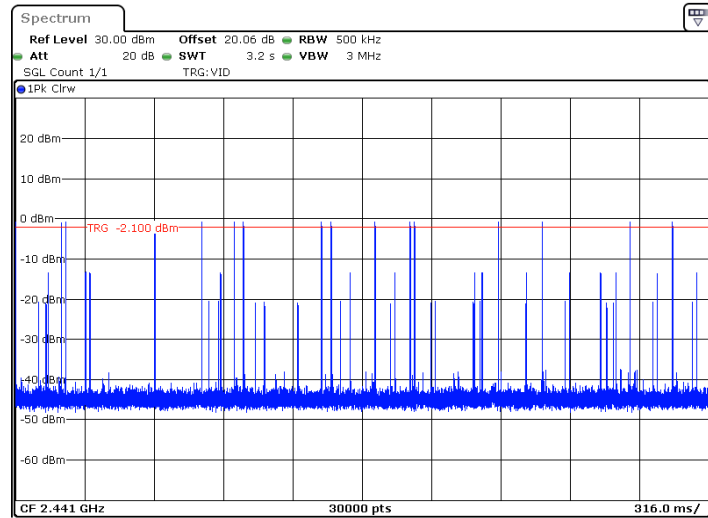
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 23.DEC.2024 15:33:05

3DH3_Ant1_Hop



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

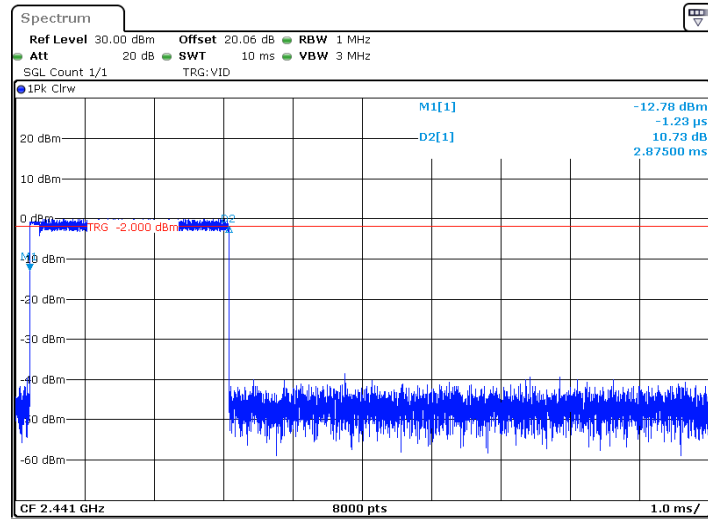
Date: 23.DEC.2024 15:34:13



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

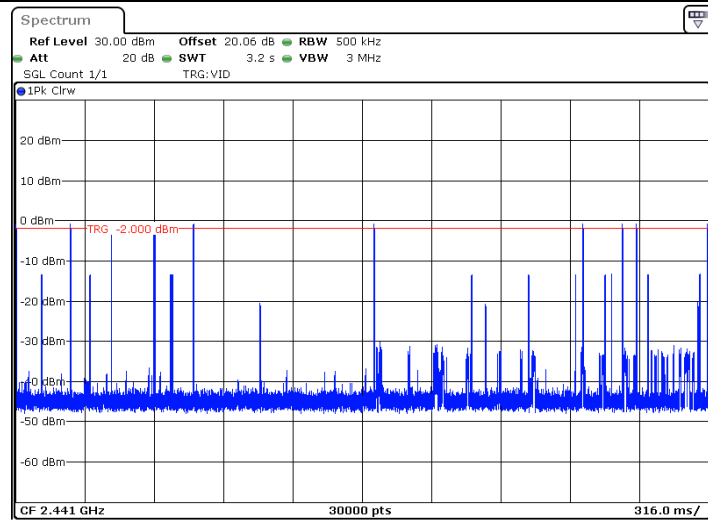
Date: 23.DEC.2024 15:34:18

3DH5_Ant1_Hop



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 23.DEC.2024 15:35:38



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

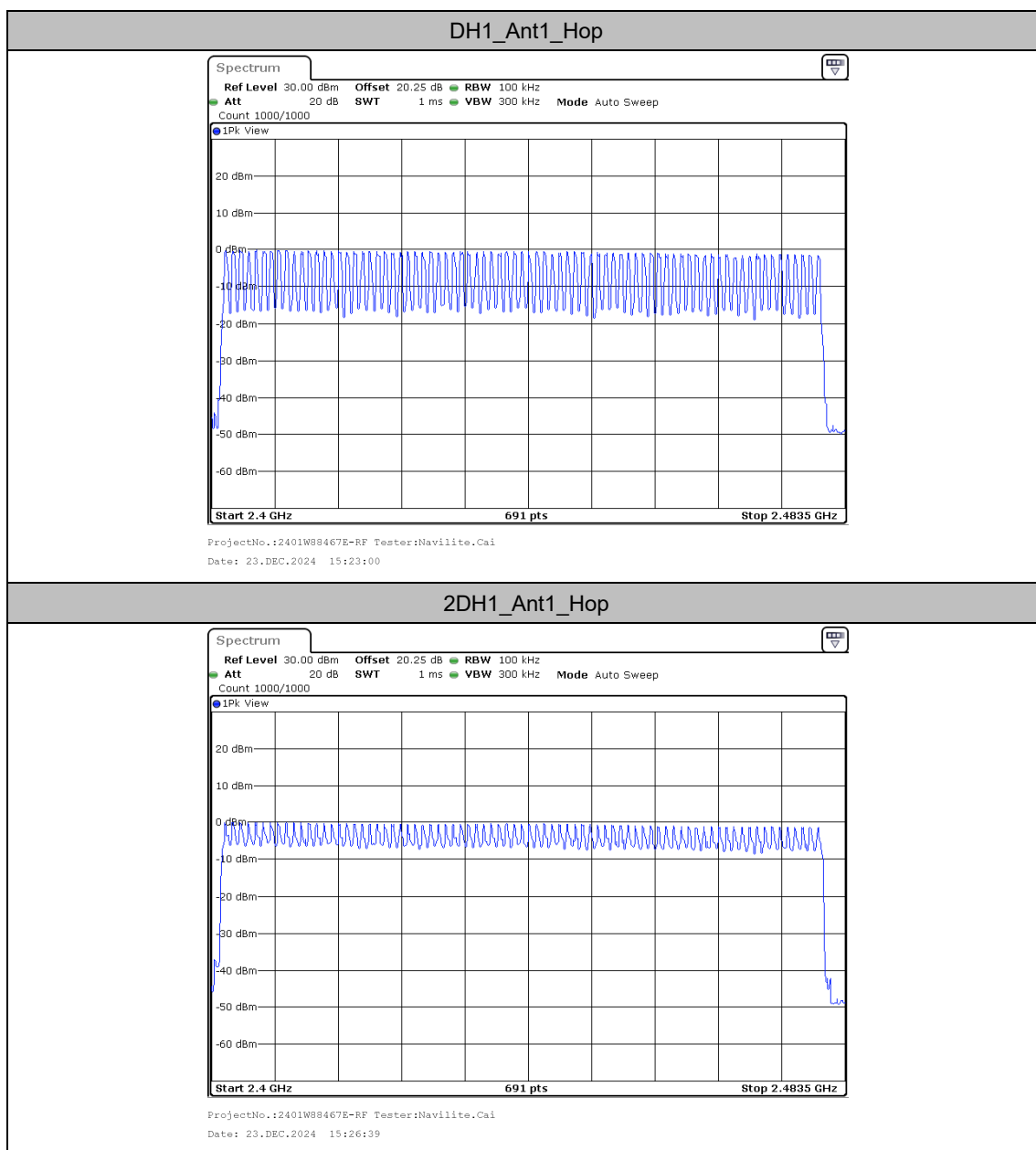
Date: 23.DEC.2024 15:35:43

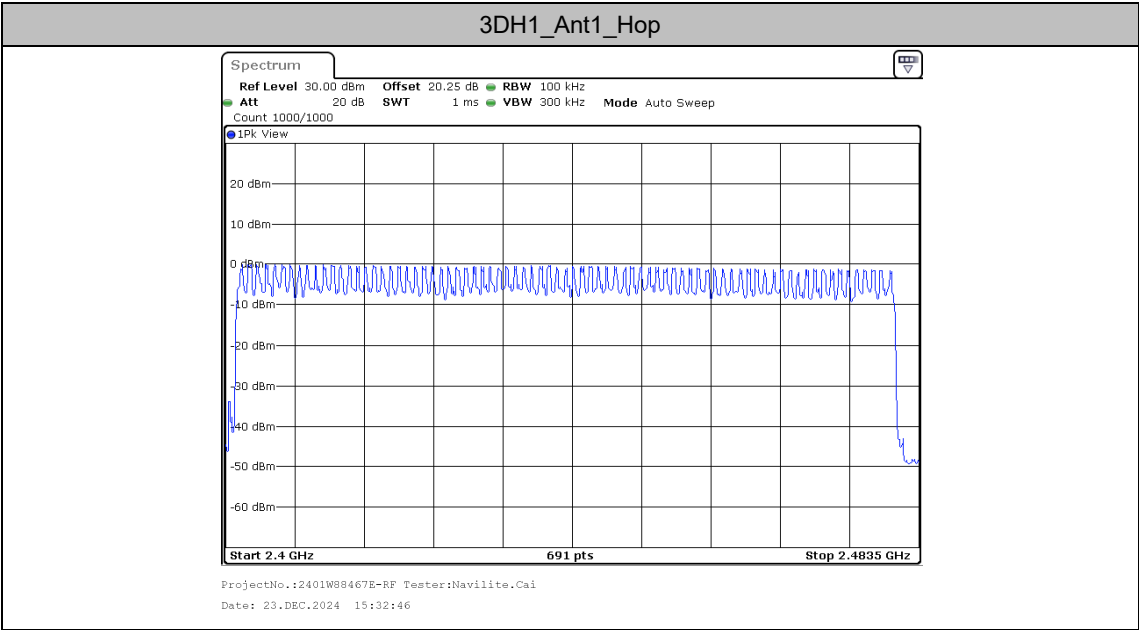
Appendix F: Number Of Hopping Channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

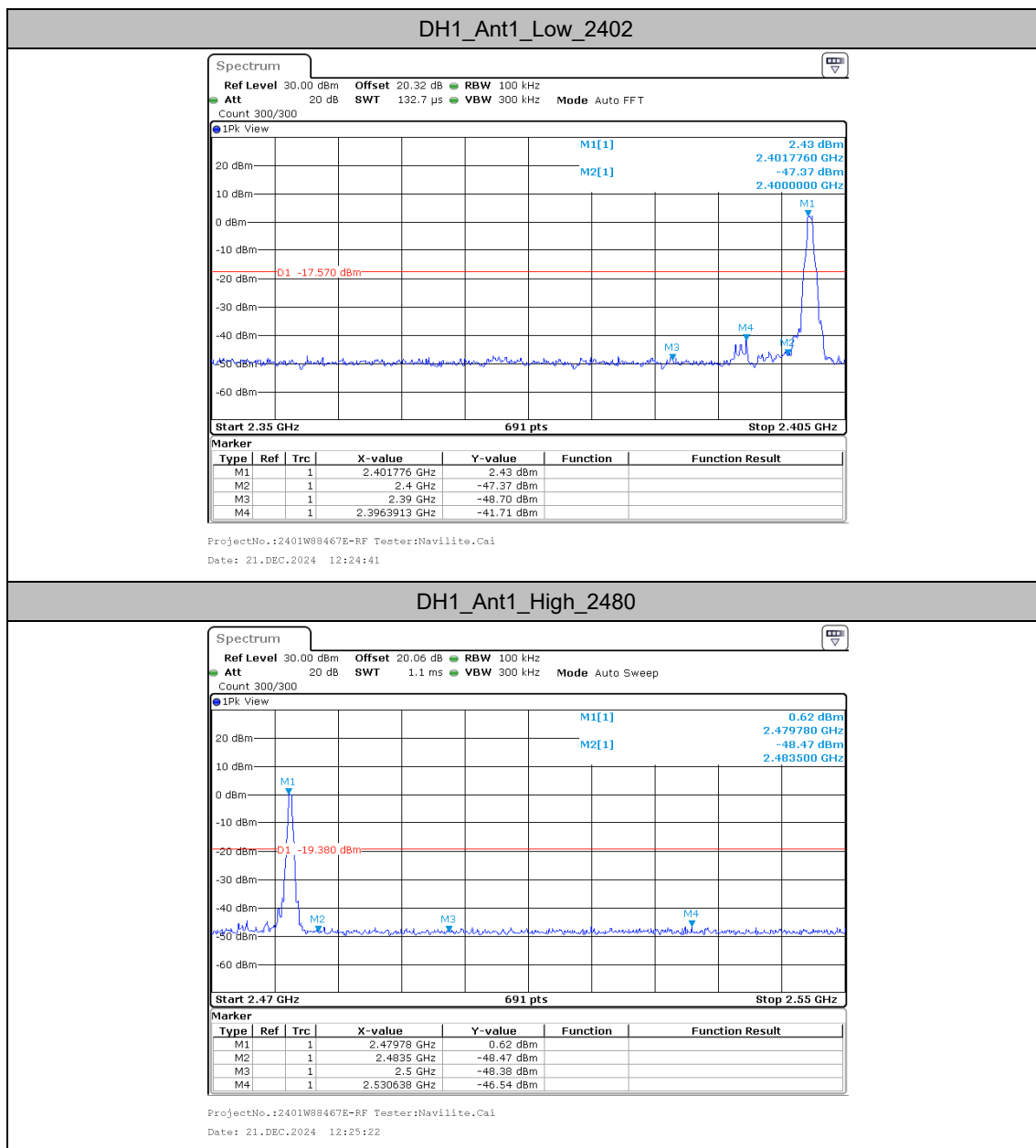
Test Graphs



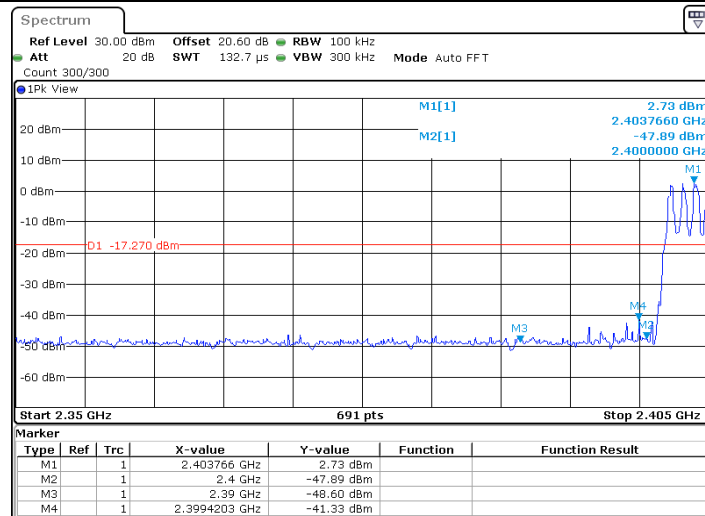


Appendix G: Band Edge Measurements

Test Graphs



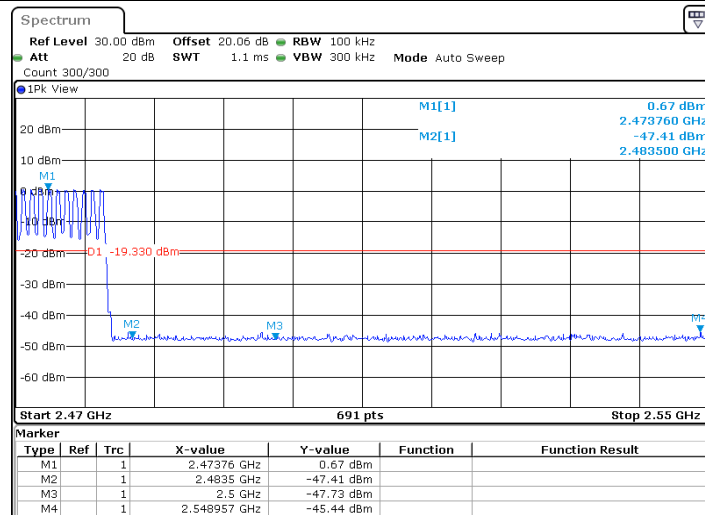
DH1_Ant1_Low_Hop_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 11:06:37

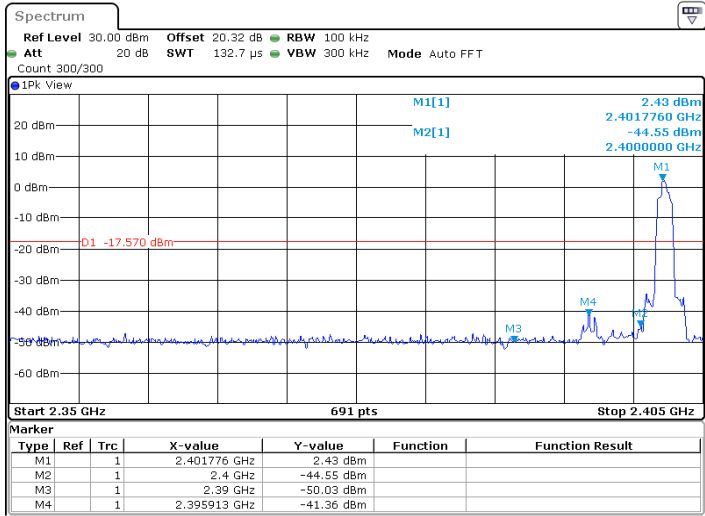
DH1_Ant1_High_Hop_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

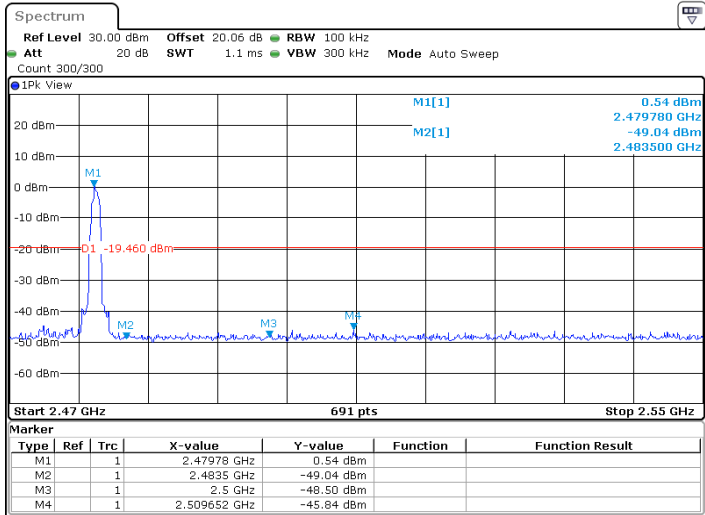
Date: 21.DEC.2024 11:03:29

2DH1_Ant1_Low_2402



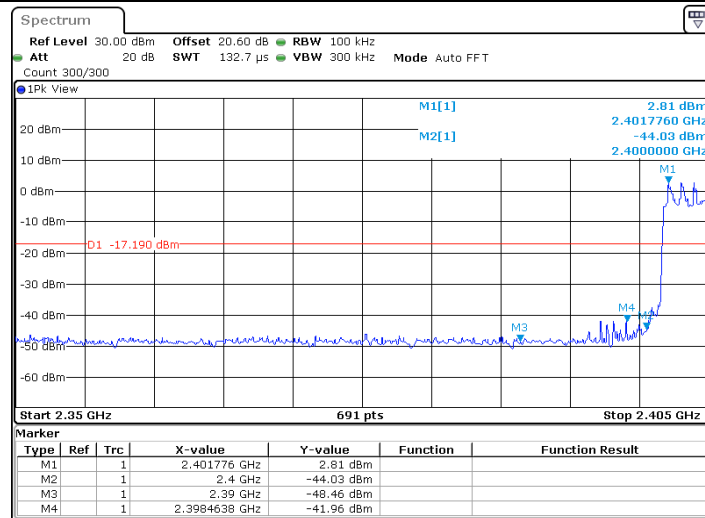
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 12:26:19

2DH1_Ant1_High_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai
Date: 21.DEC.2024 12:27:16

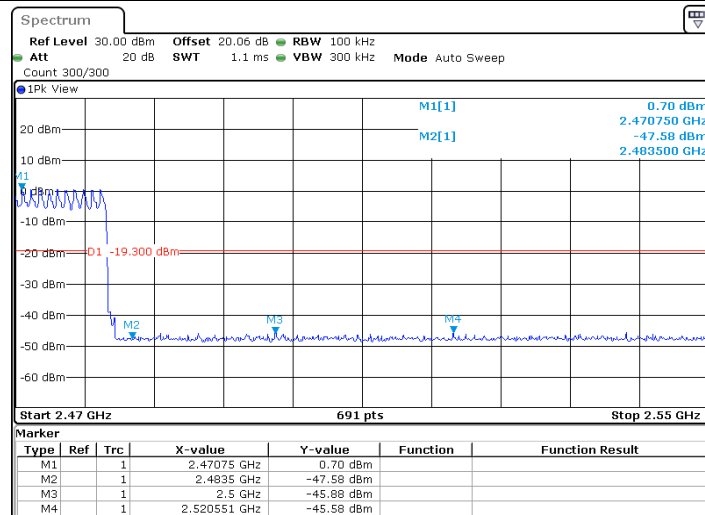
2DH1_Ant1_Low_Hop_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 11:08:08

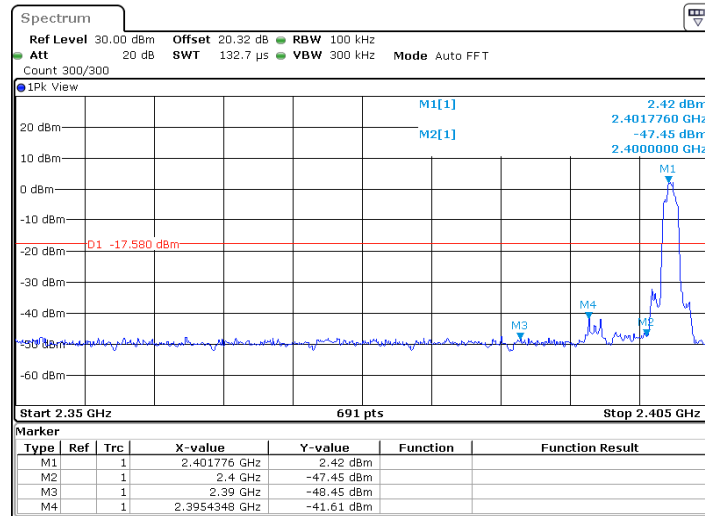
2DH1_Ant1_High_Hop_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 11:08:56

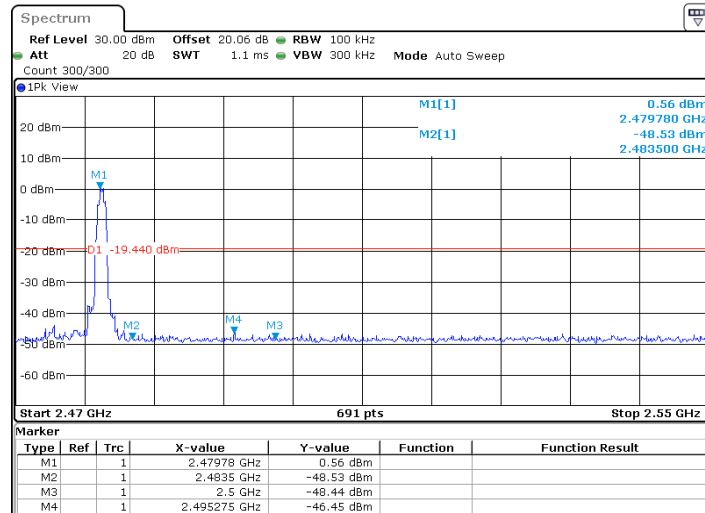
3DH1_Ant1_Low_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 12:28:15

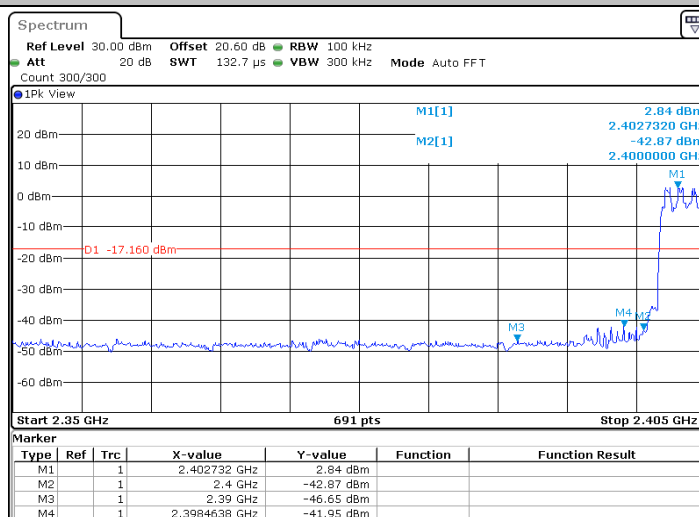
3DH1_Ant1_High_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 12:28:54

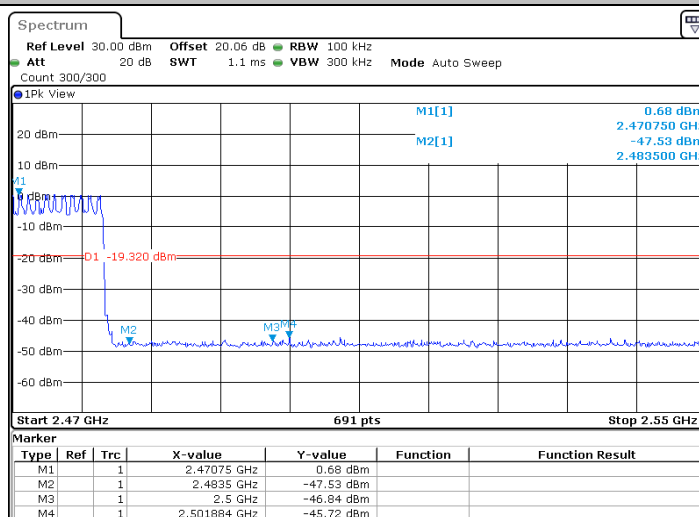
3DH1_Ant1_Low_Hop_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 11:11:21

3DH1_Ant1_High_Hop_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

Date: 21.DEC.2024 11:11:51

***** END OF REPORT *****