

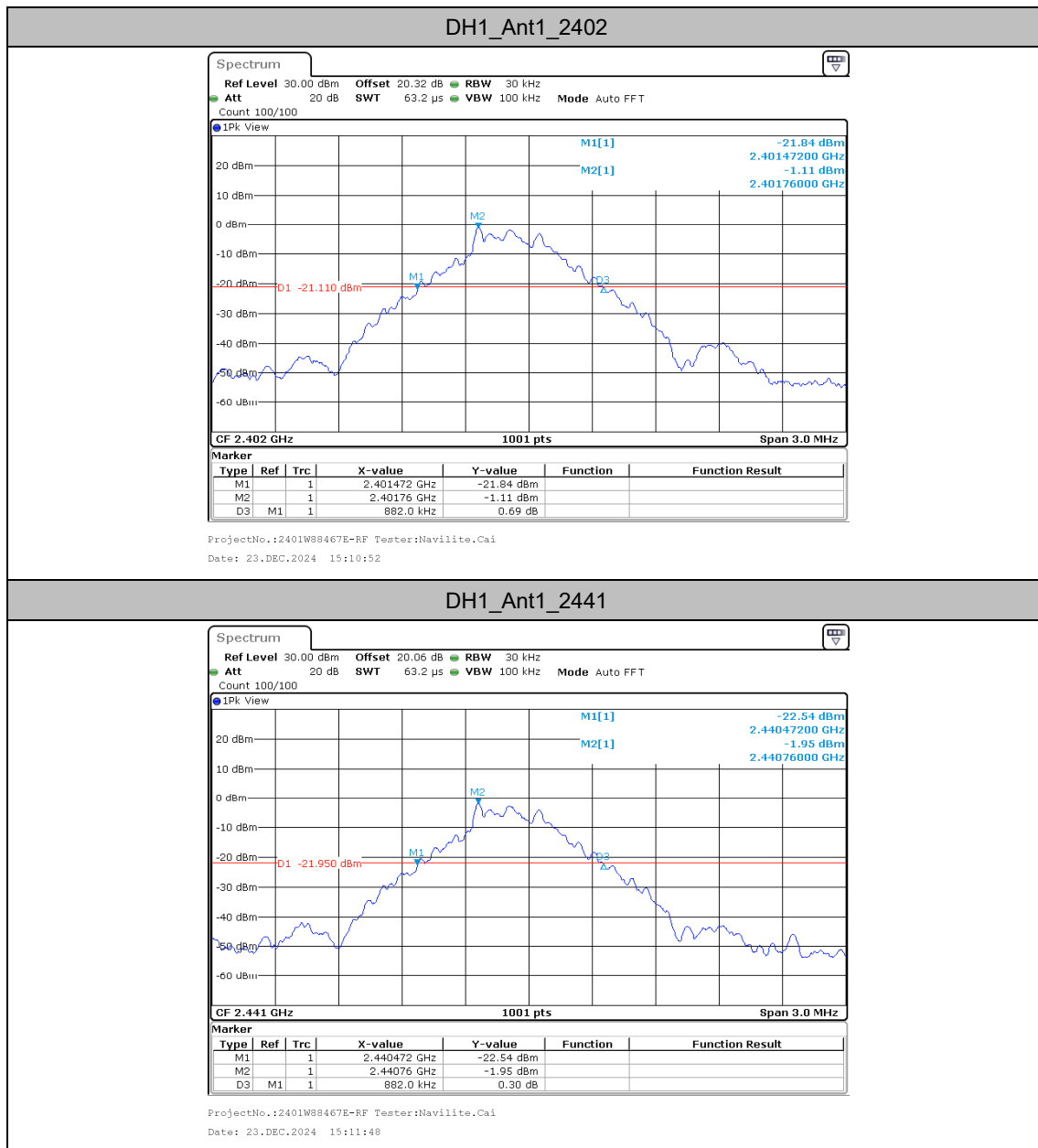
|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| Project No.:     | 2401W88467E-RF                                                                                    |
| 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

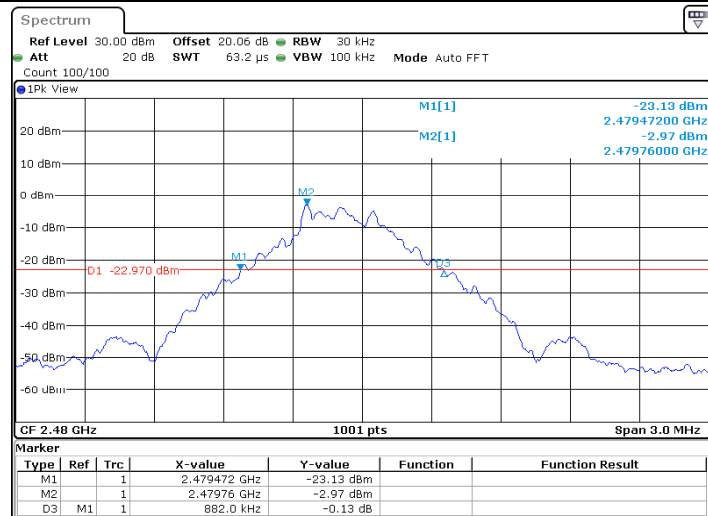
### Test Result

| 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

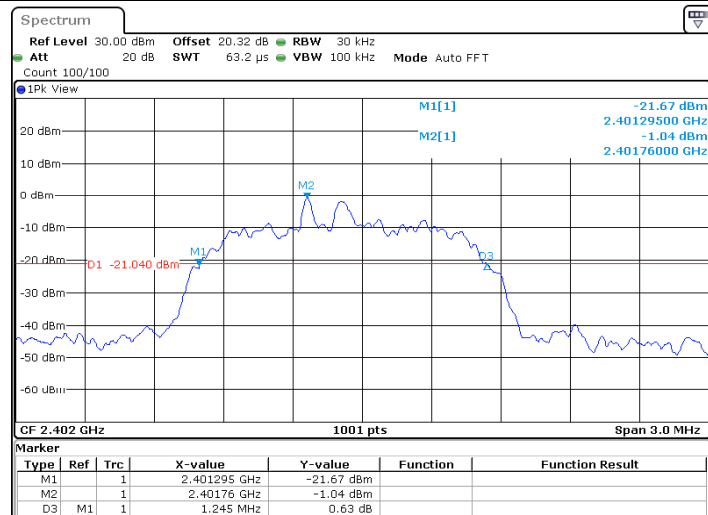


## DH1\_Ant1\_2480



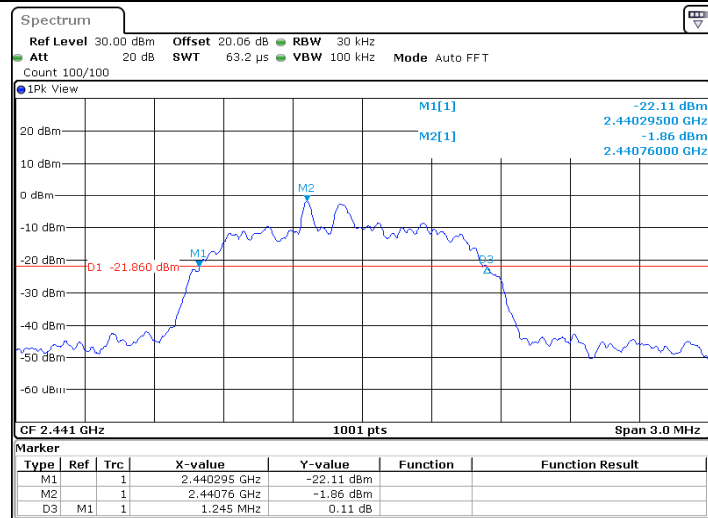
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:12:27

## 2DH1\_Ant1\_2402



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:13:03

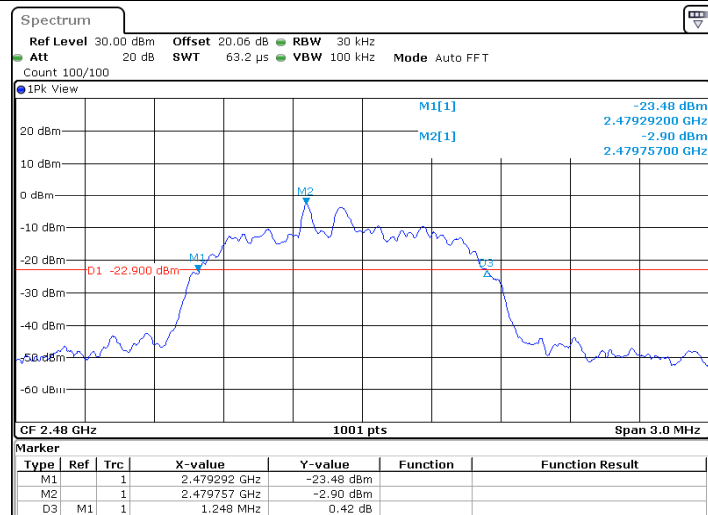
## 2DH1\_Ant1\_2441



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

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

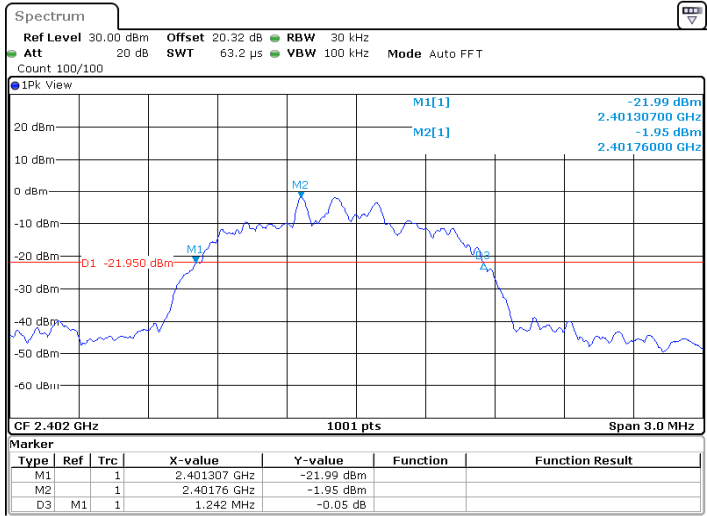
## 2DH1\_Ant1\_2480



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

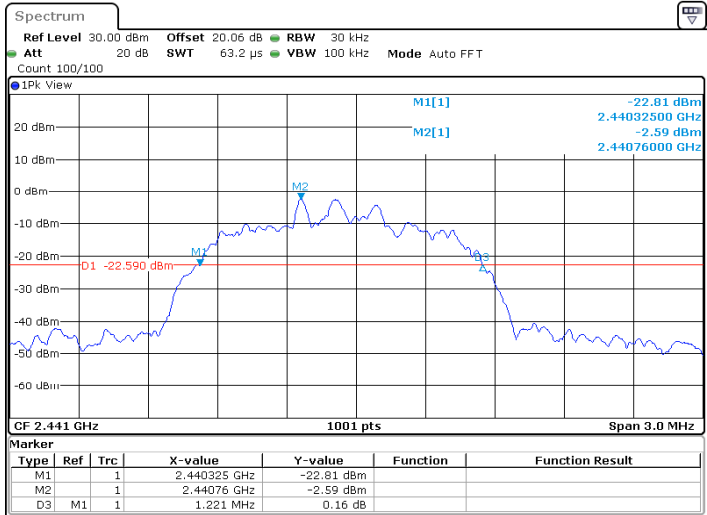
Date: 23.DEC.2024 15:14:06

3DH1\_Ant1\_2402

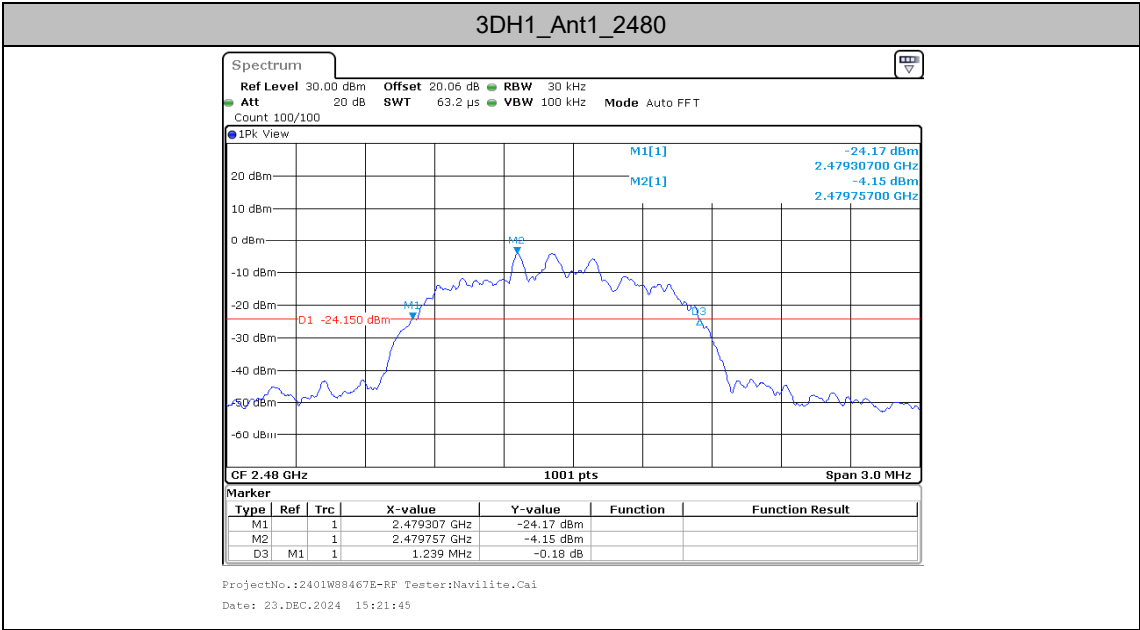


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:14:54

3DH1\_Ant1\_2441



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

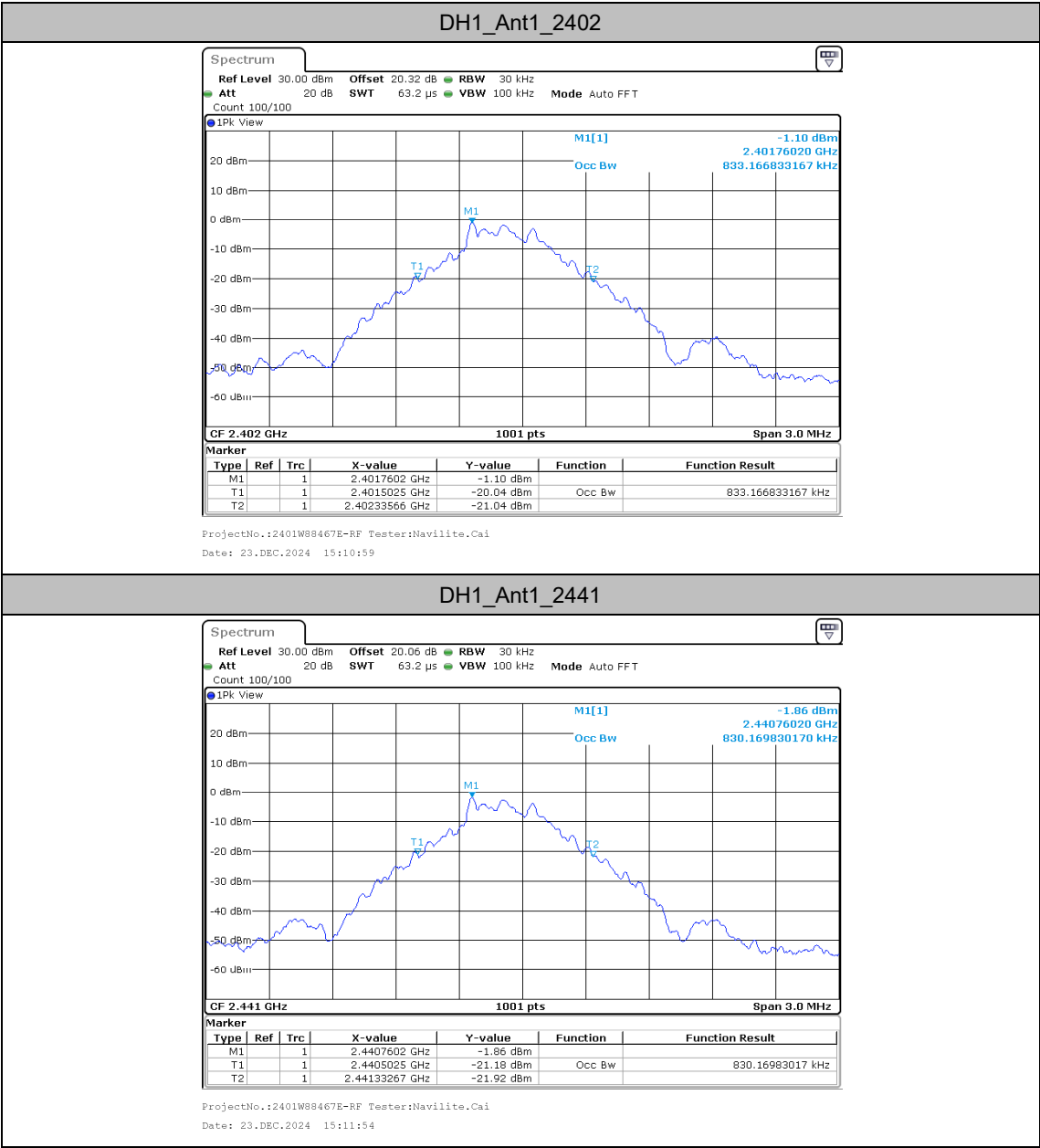


## Appendix B: Occupied Channel Bandwidth

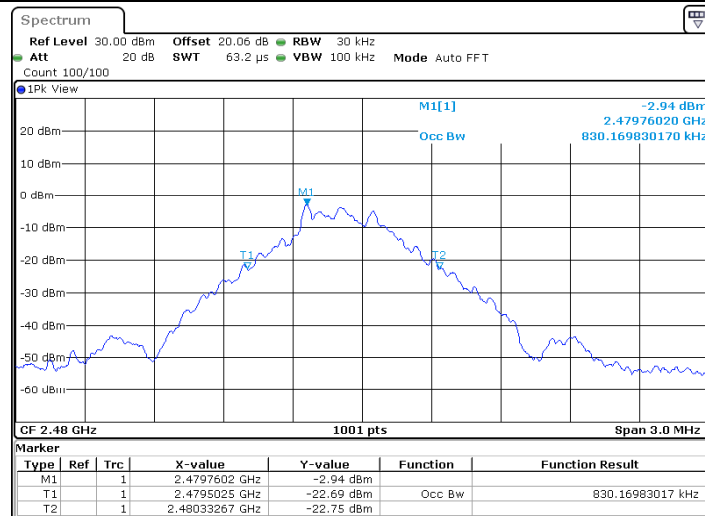
### Test Result

| 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



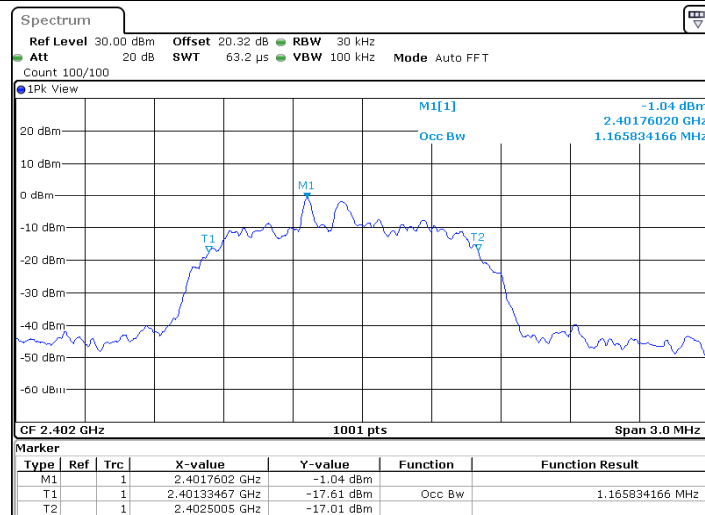
## DH1\_Ant1\_2480



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

Date: 23.DEC.2024 15:12:33

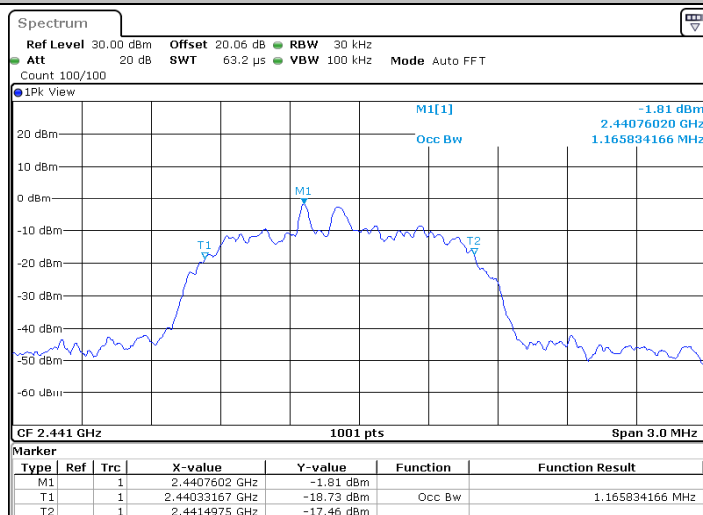
## 2DH1\_Ant1\_2402



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

Date: 23.DEC.2024 15:13:09

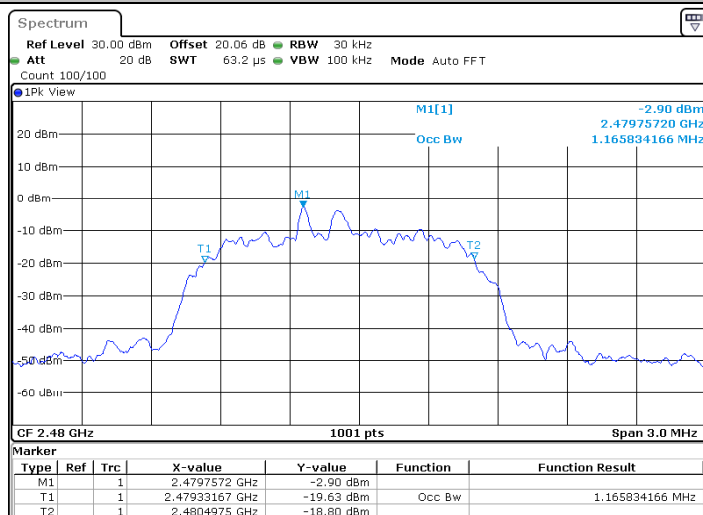
## 2DH1\_Ant1\_2441



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

Date: 23.DEC.2024 15:13:39

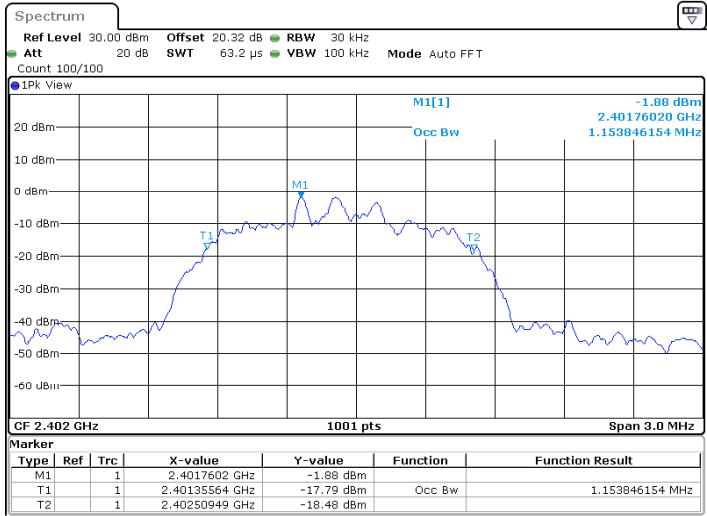
## 2DH1\_Ant1\_2480



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

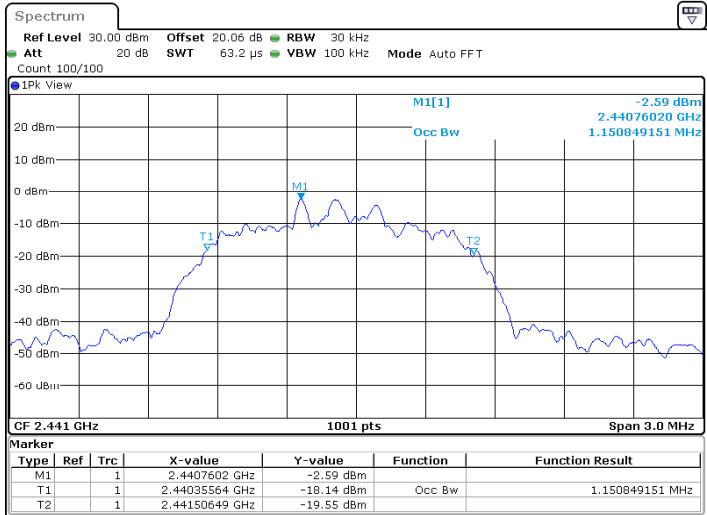
Date: 23.DEC.2024 15:14:12

3DH1\_Ant1\_2402

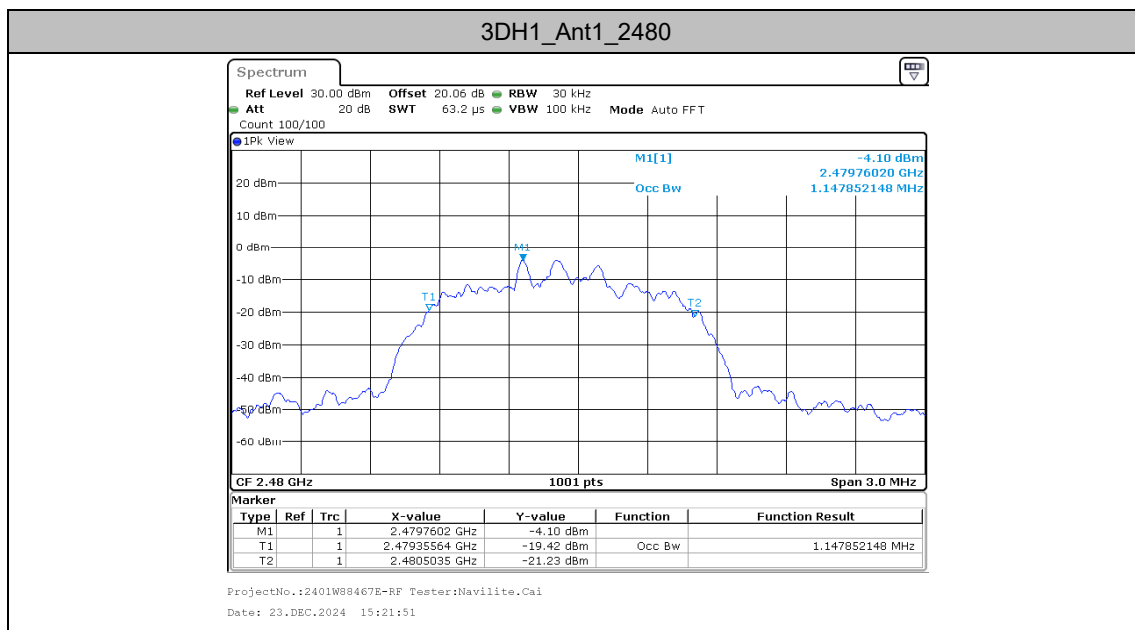


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:15:00

3DH1\_Ant1\_2441



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

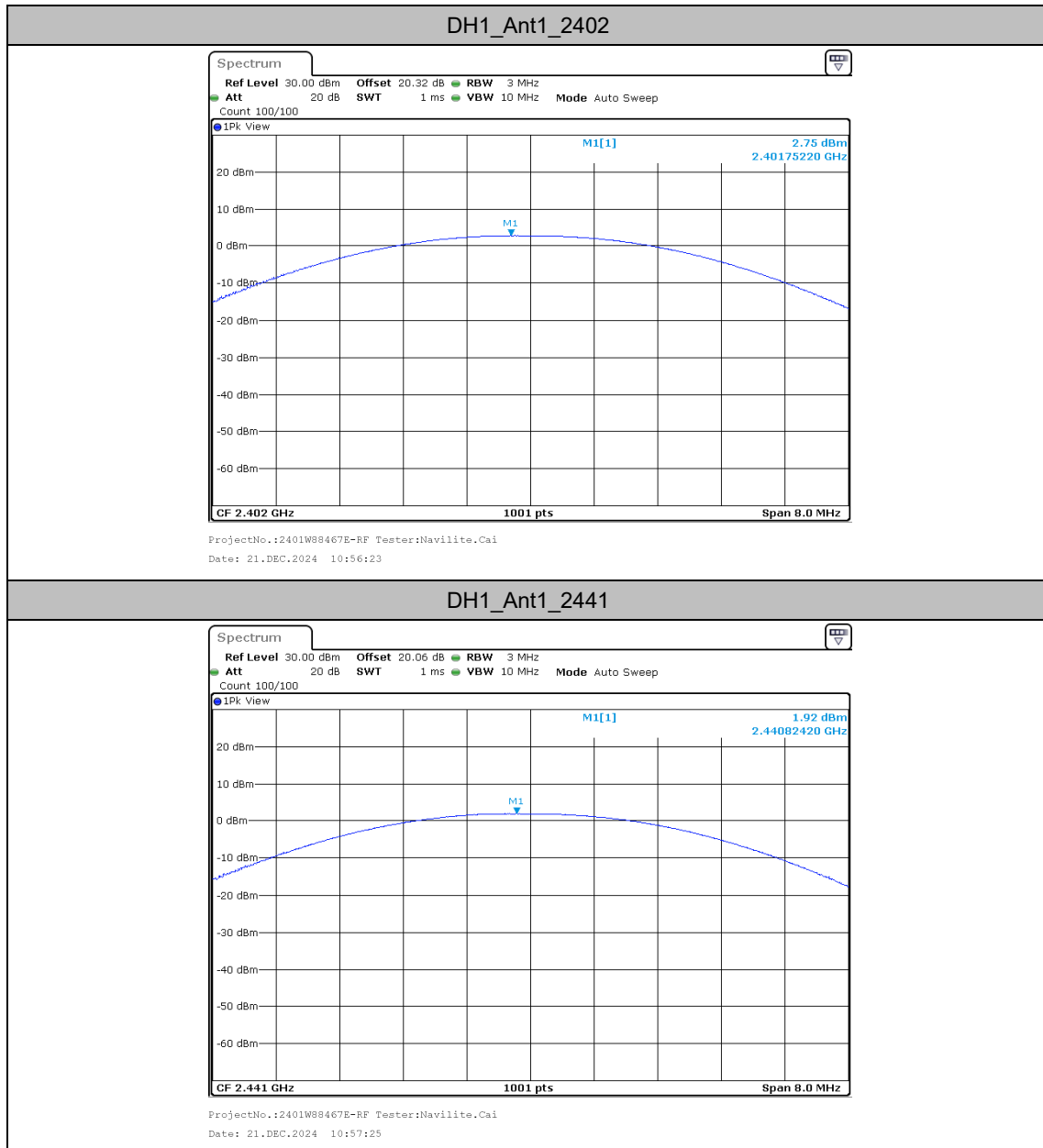


## Appendix C: Maximum Conducted Output Power

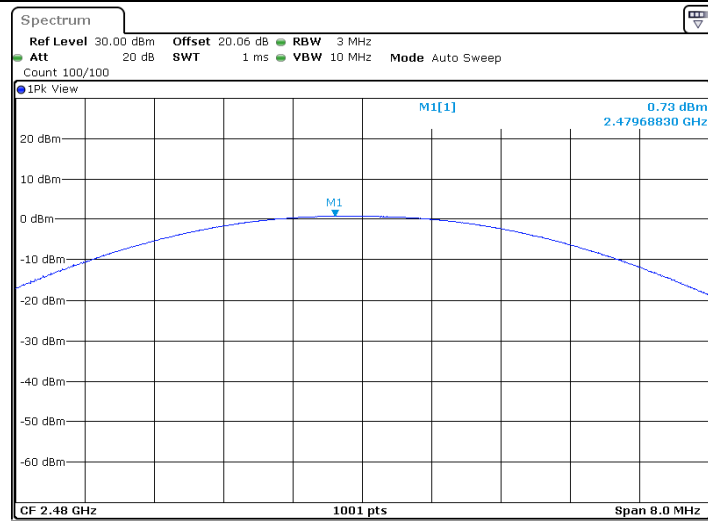
### Test Result

| 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

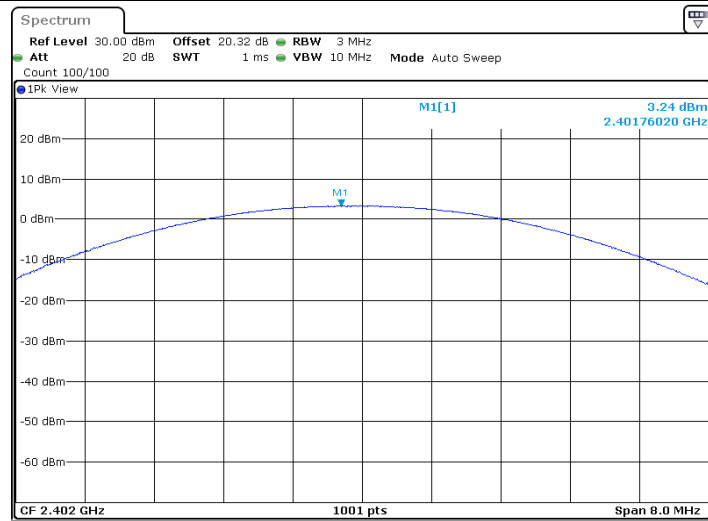


## DH1\_Ant1\_2480



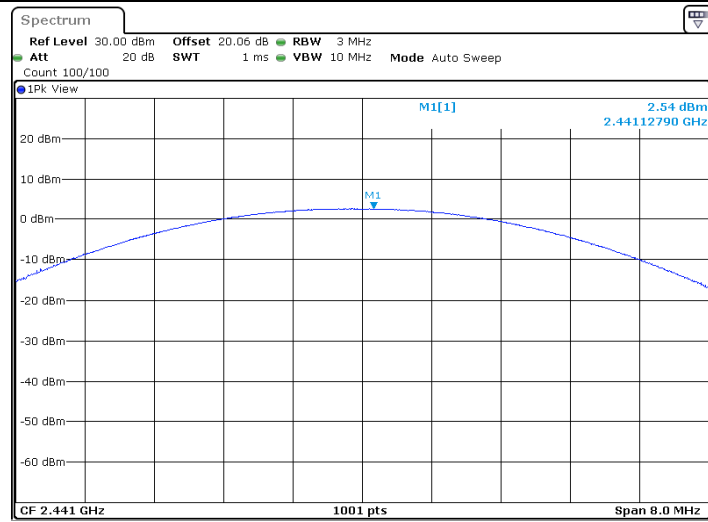
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 10:58:09

## 2DH1\_Ant1\_2402



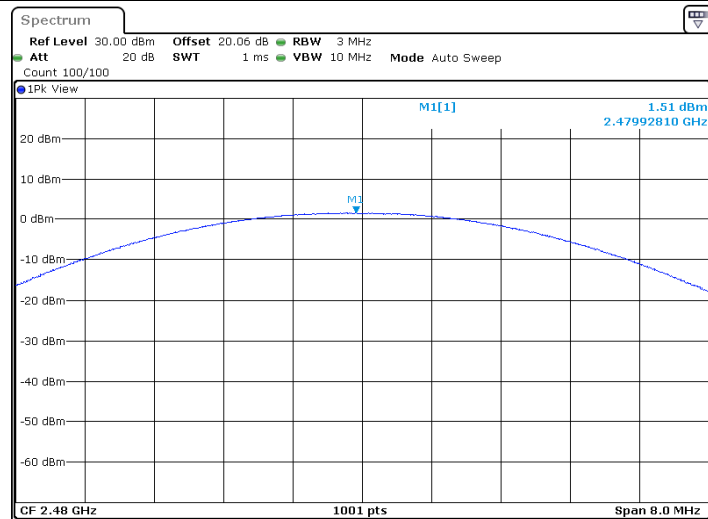
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 10:50:31

## 2DH1\_Ant1\_2441



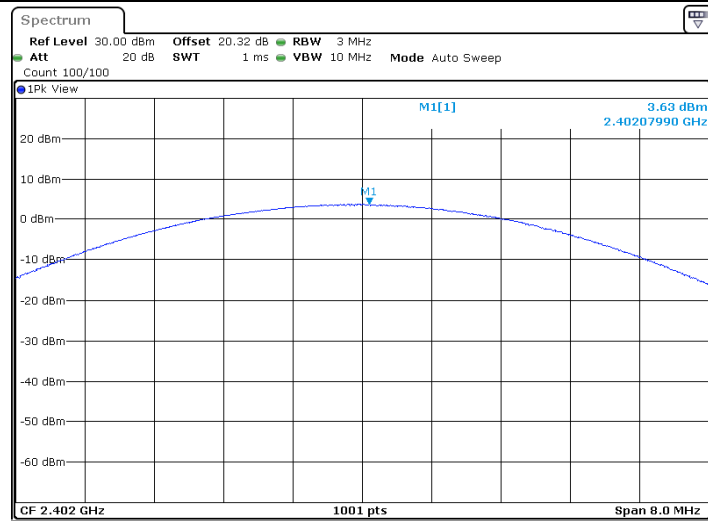
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 10:51:30

## 2DH1\_Ant1\_2480



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

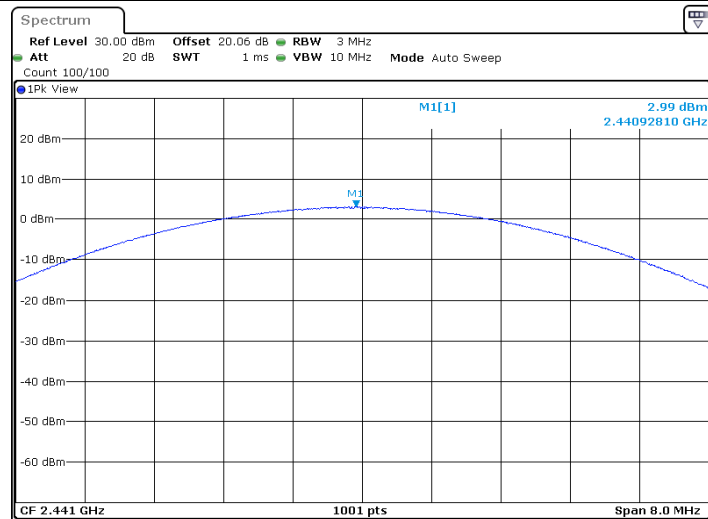
## 3DH1\_Ant1\_2402



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

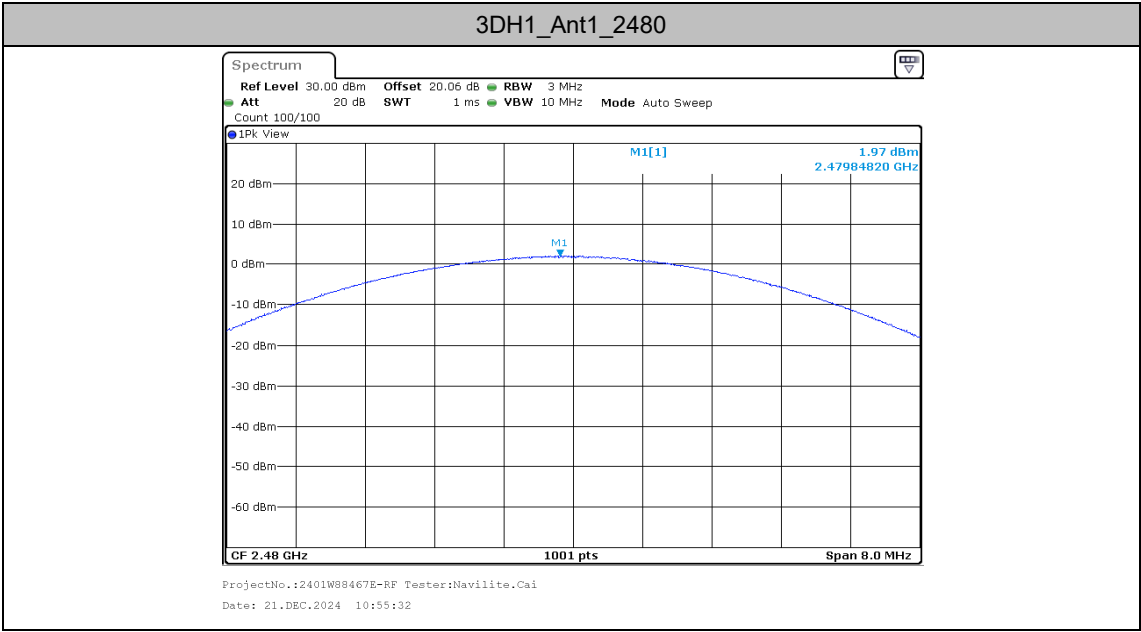
Date: 21.DEC.2024 10:53:20

## 3DH1\_Ant1\_2441



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

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



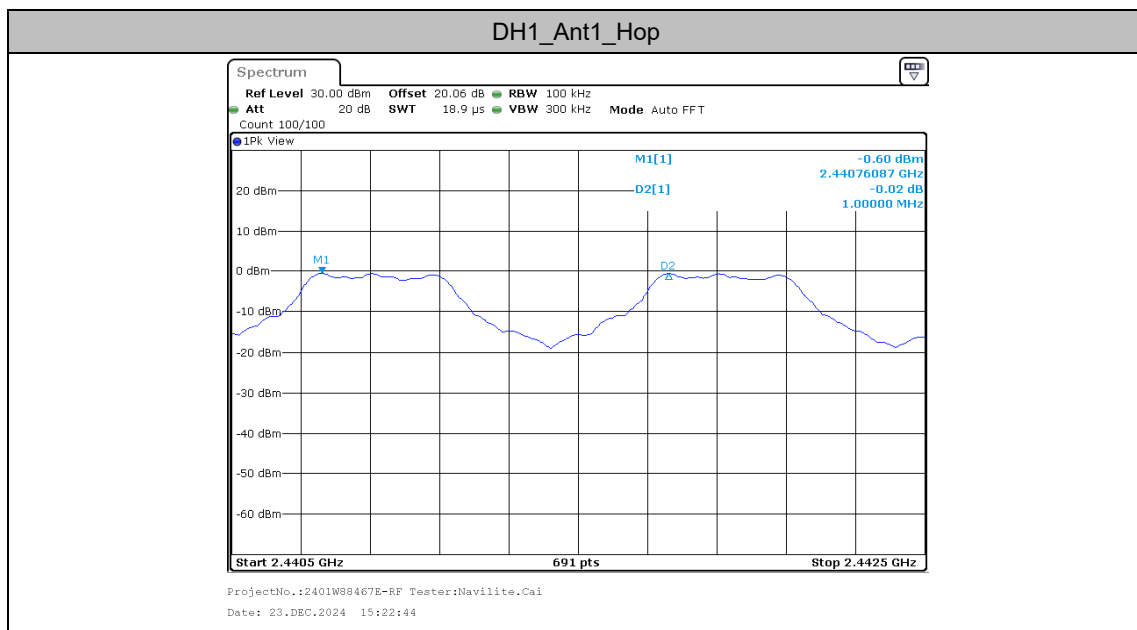
## Appendix D: Carrier Frequency Separation

### 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

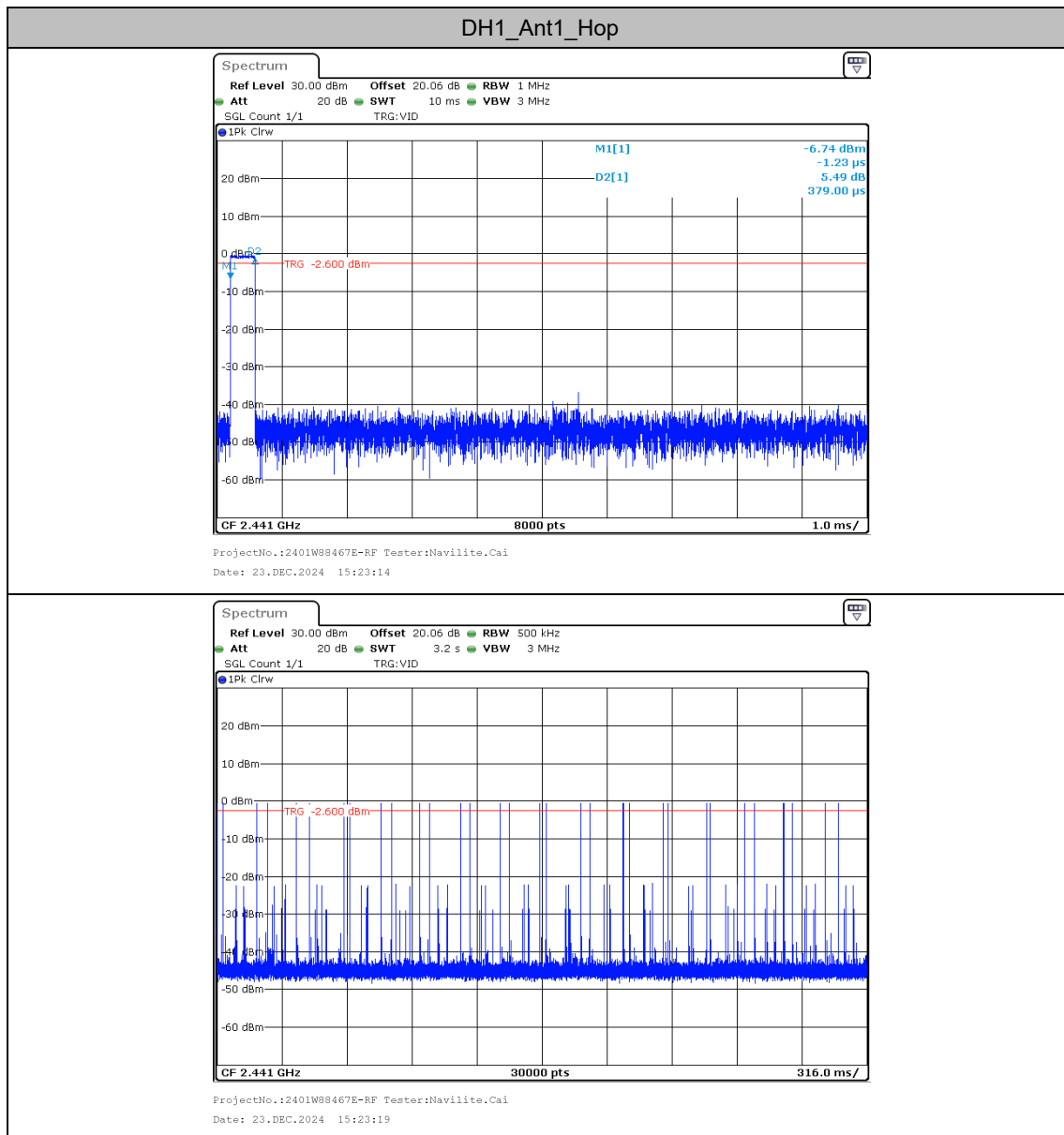


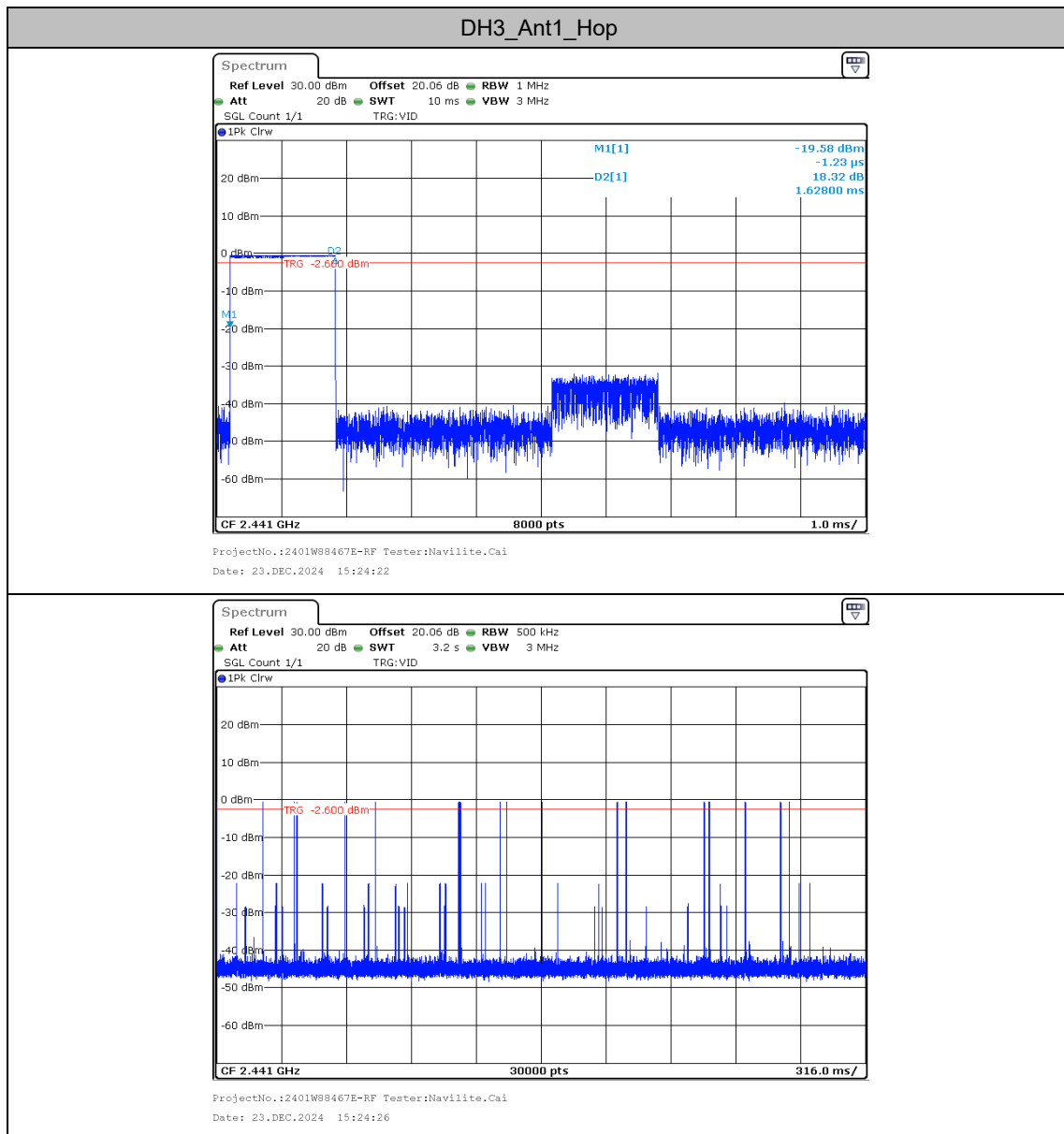
## Appendix E: Time Of Occupancy

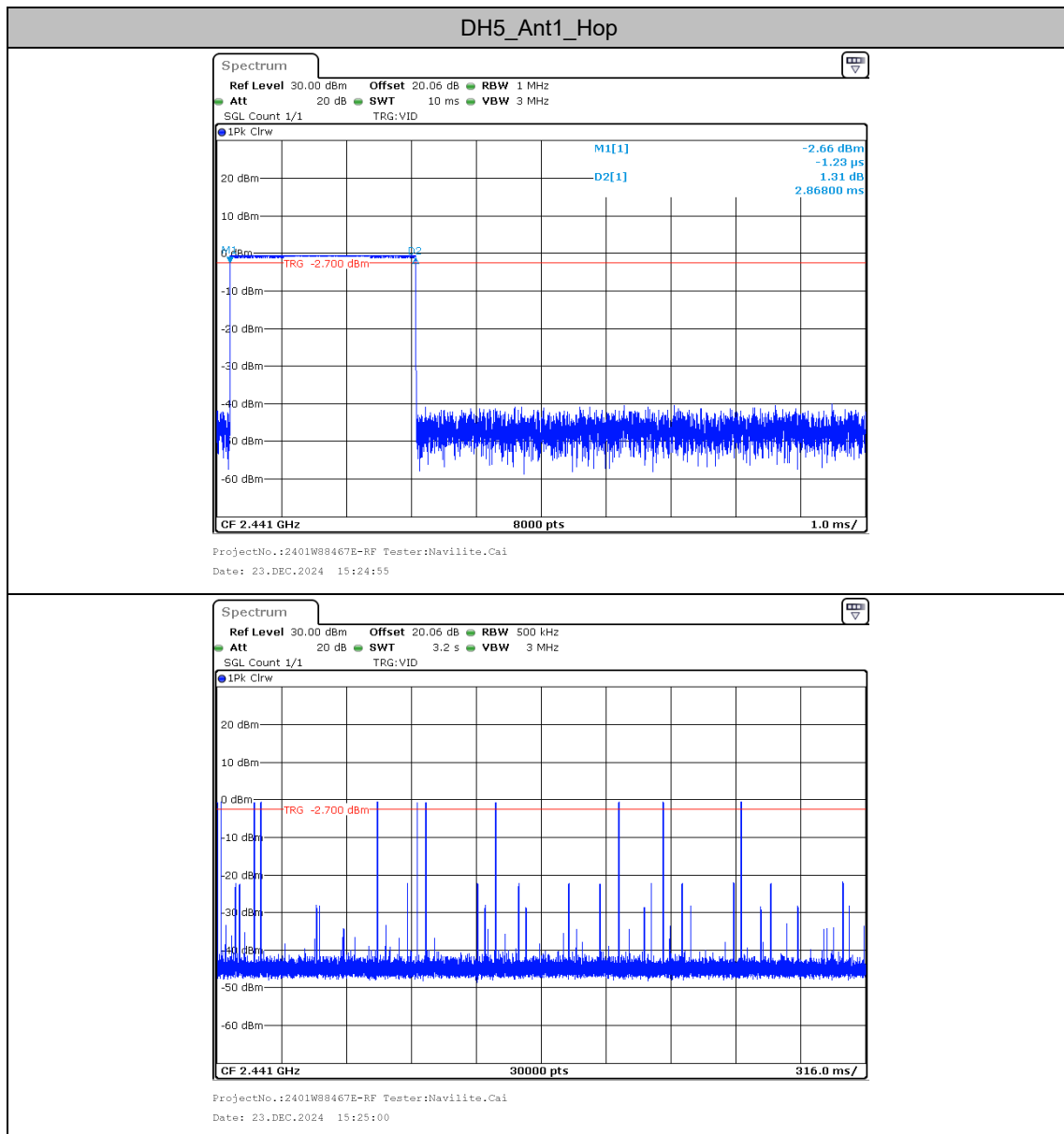
### Test Result

| 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*79=31.6(S), Result=Burst Width*Total Hops                                       |         |                |                 |                 |           |          |         |
| Note 2: Total Hhops=Hopping Number in 3.16s*10                                                            |         |                |                 |                 |           |          |         |
| Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel) |         |                |                 |                 |           |          |         |

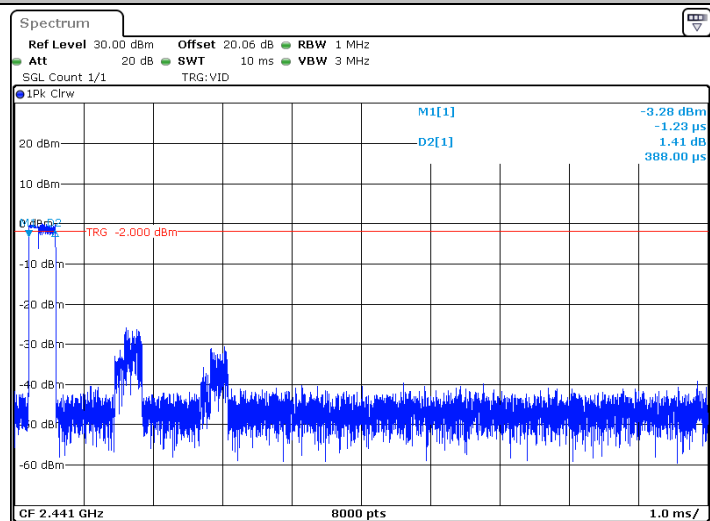
## Test Graphs



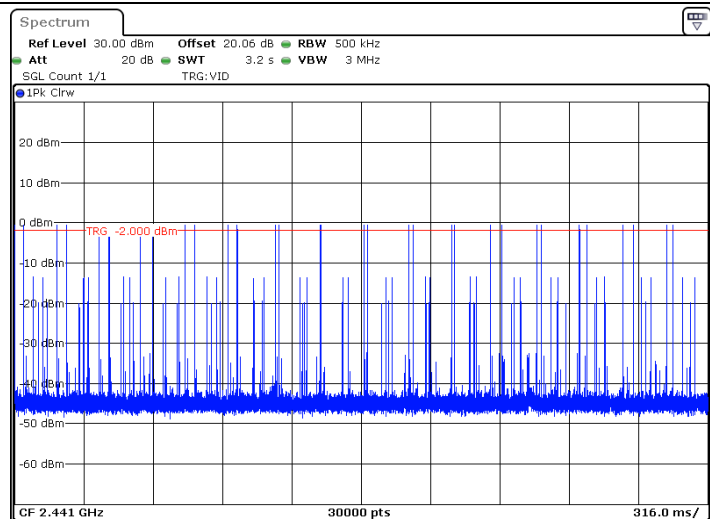




## 2DH1\_Ant1\_Hop

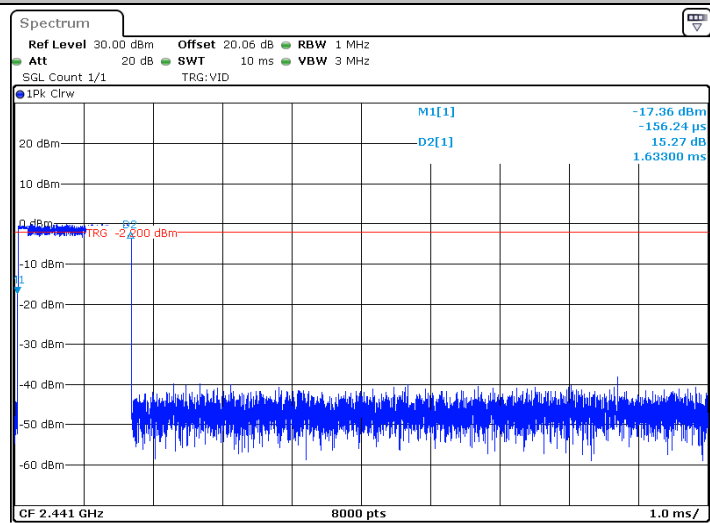


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:26:53

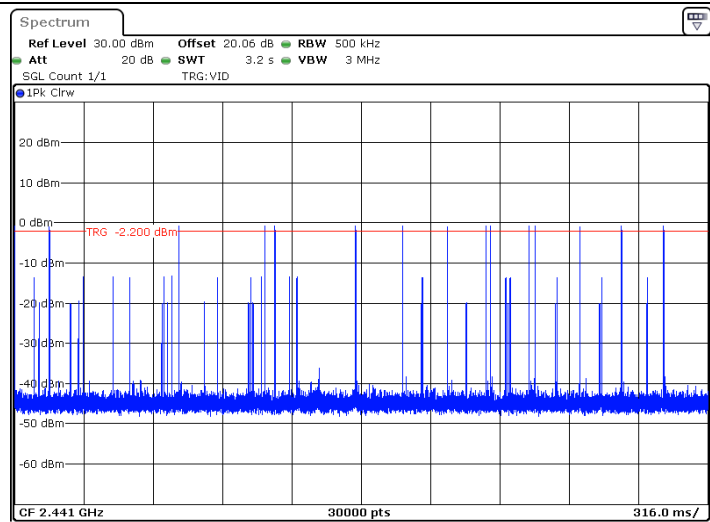


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:26:58

## 2DH3\_Ant1\_Hop

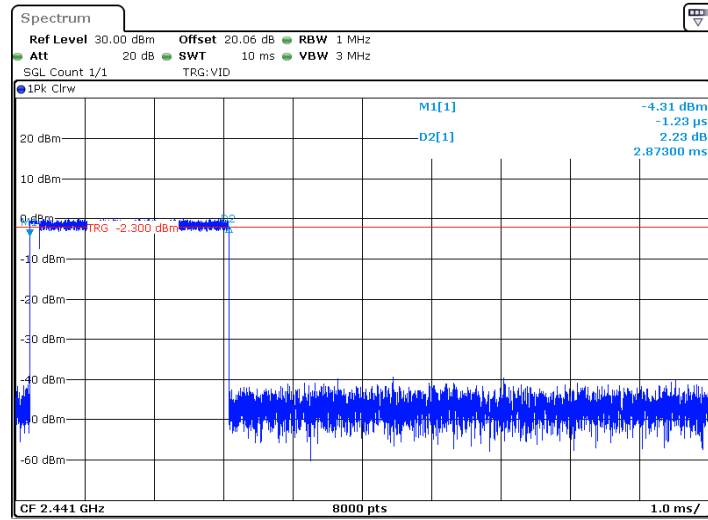


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:31:38



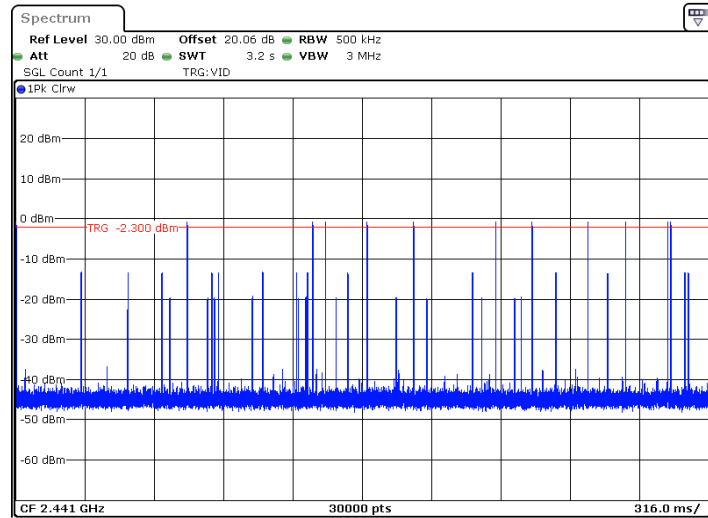
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:31:42

## 2DH5\_Ant1\_Hop



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

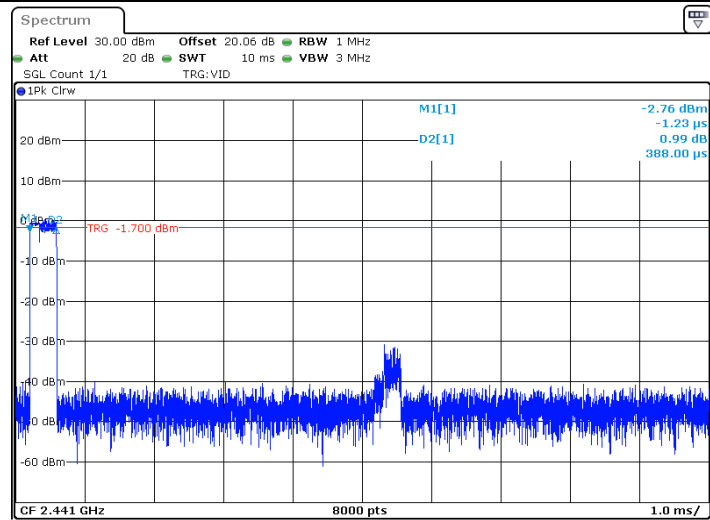
Date: 23.DEC.2024 15:29:17



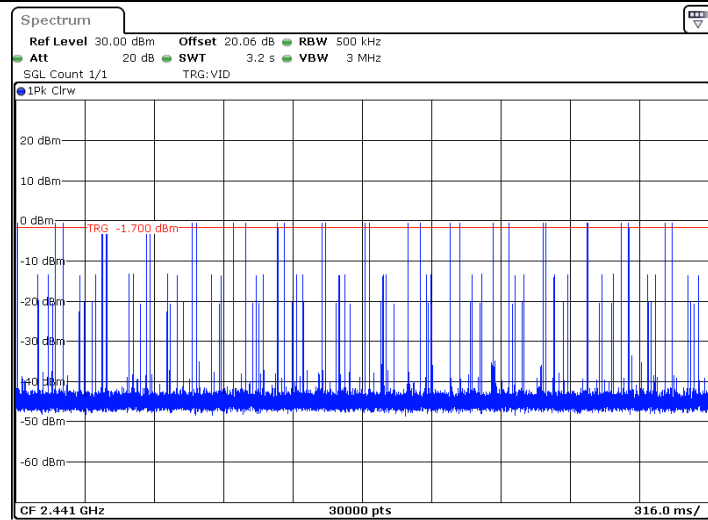
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai

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

## 3DH1\_Ant1\_Hop

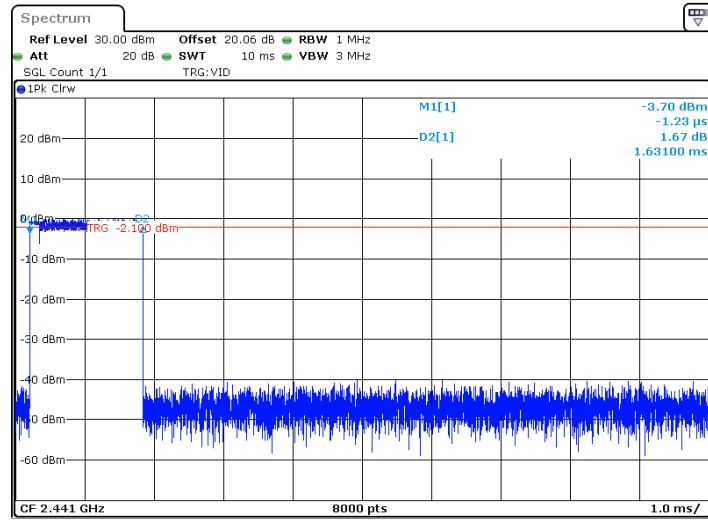


ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:33:00



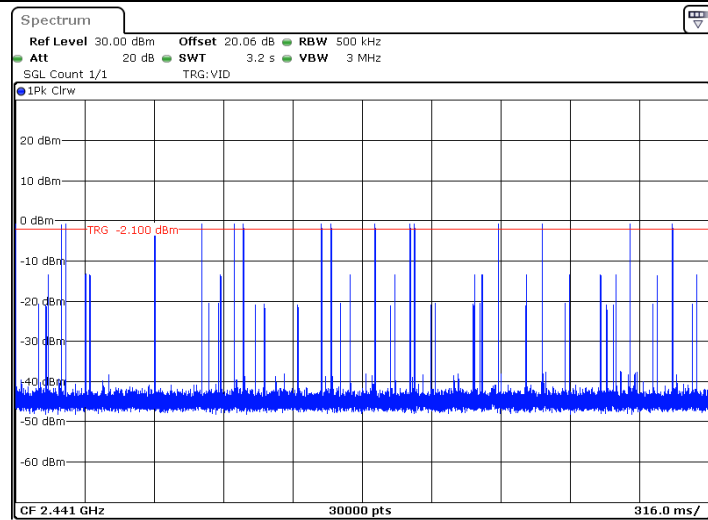
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 23.DEC.2024 15:33:05

## 3DH3\_Ant1\_Hop



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

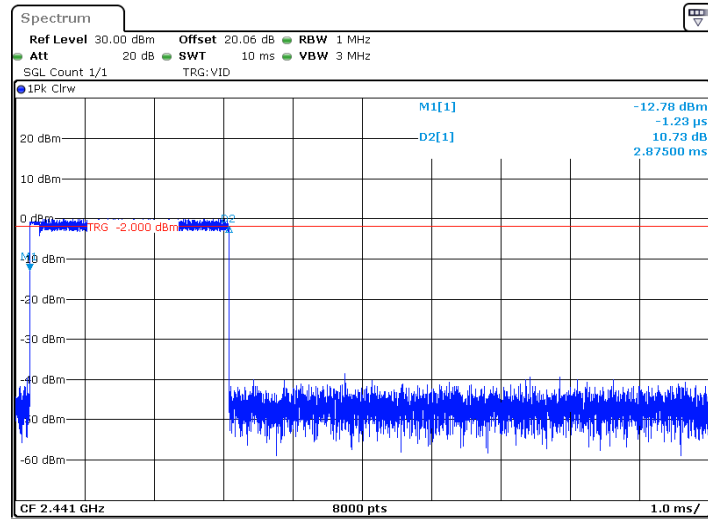
Date: 23.DEC.2024 15:34:13



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

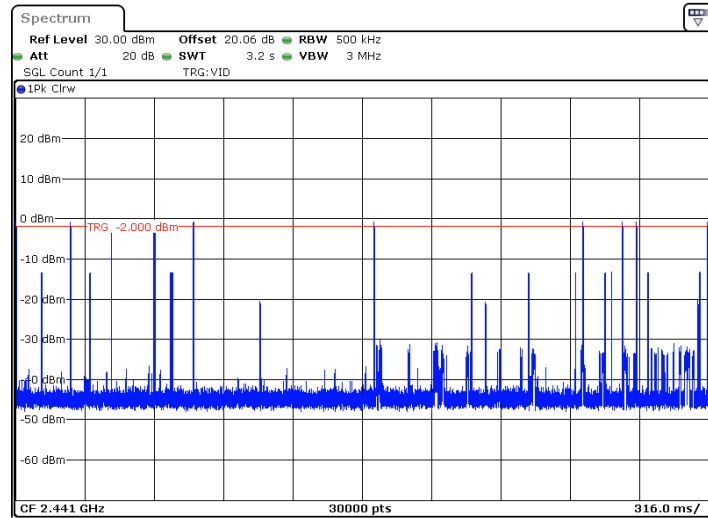
Date: 23.DEC.2024 15:34:18

## 3DH5\_Ant1\_Hop



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

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



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

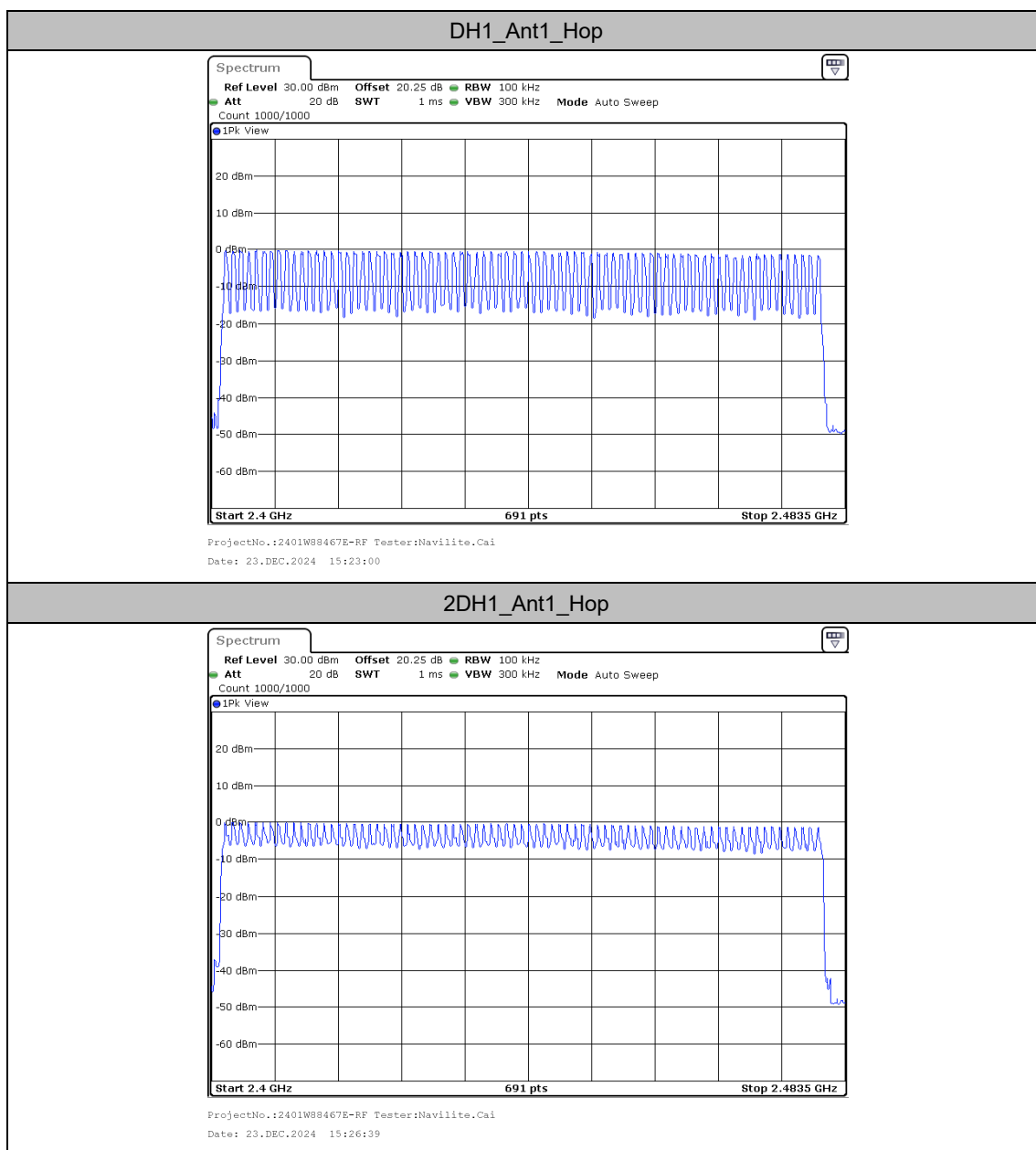
Date: 23.DEC.2024 15:35:43

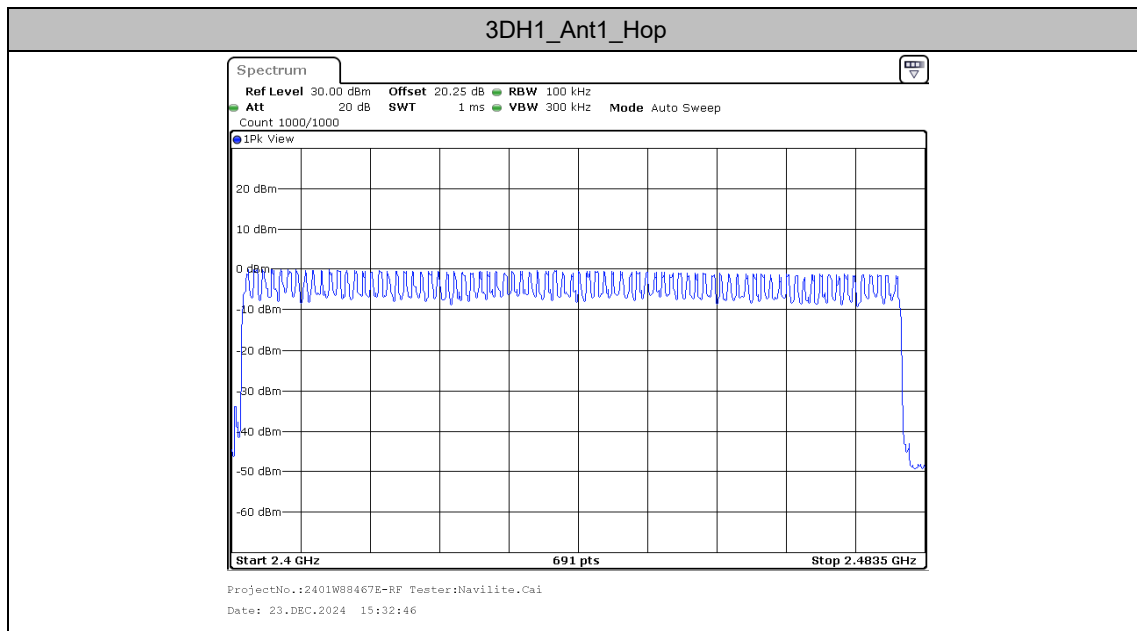
## Appendix F: Number Of Hopping Channels

### 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    |

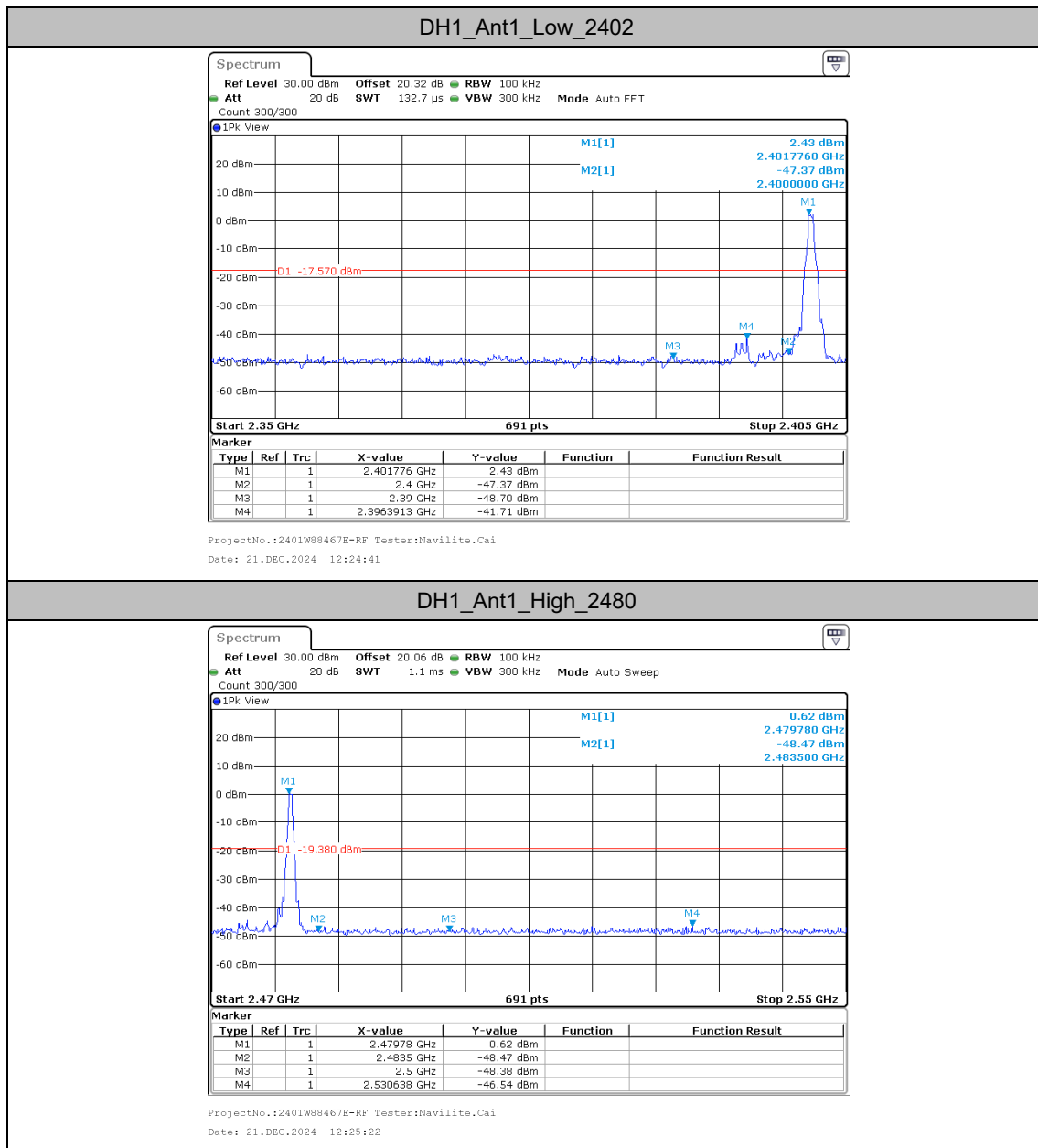
## Test Graphs

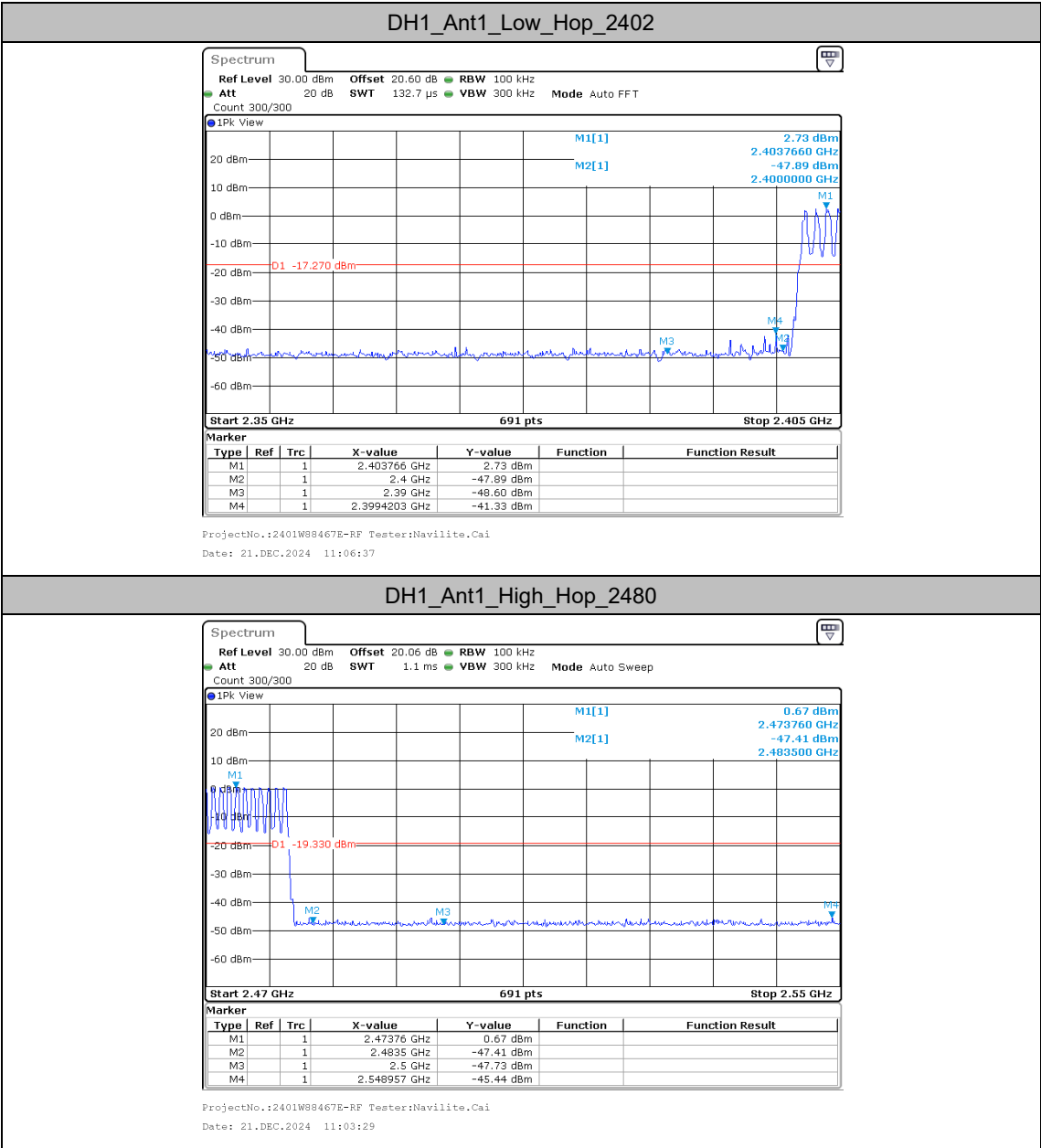




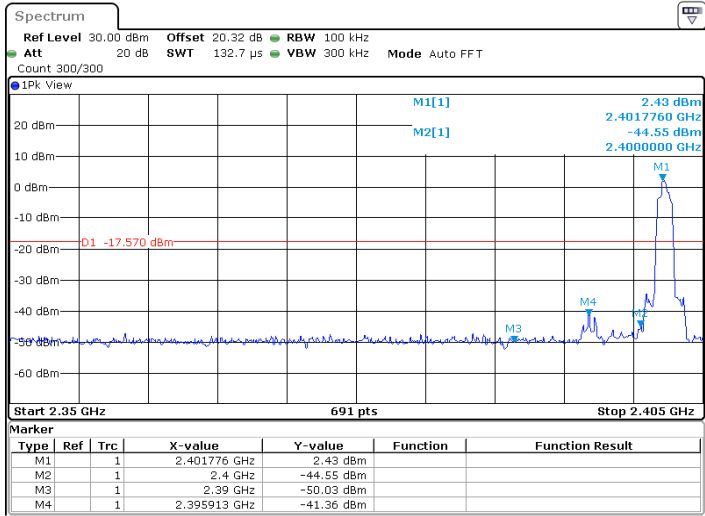
## Appendix G: Band Edge Measurements

### Test Graphs



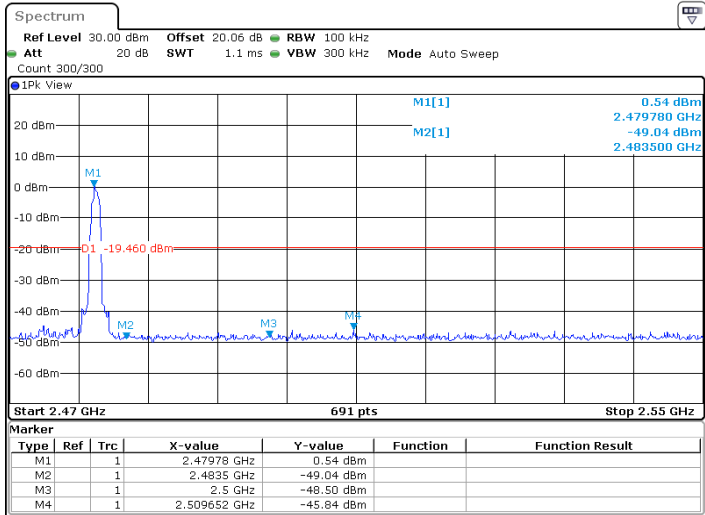


2DH1\_Ant1\_Low\_2402



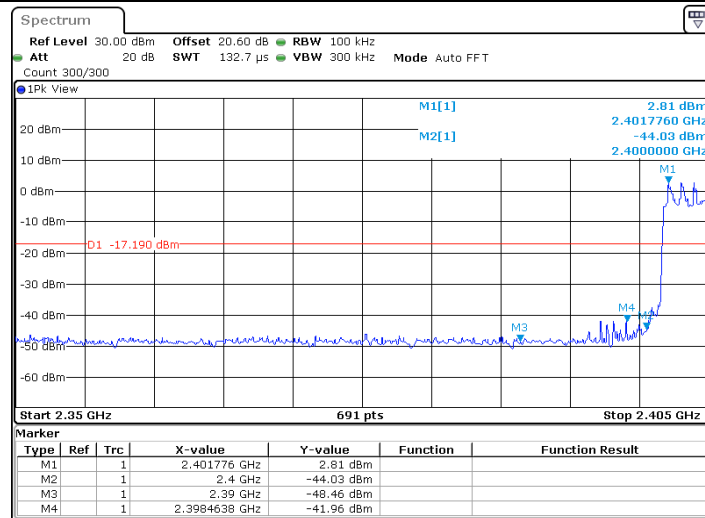
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 12:26:19

2DH1\_Ant1\_High\_2480



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

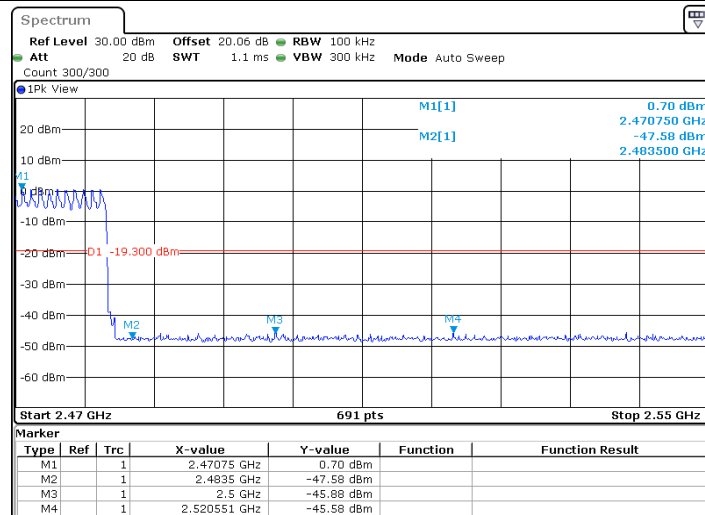
## 2DH1\_Ant1\_Low\_Hop\_2402



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

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

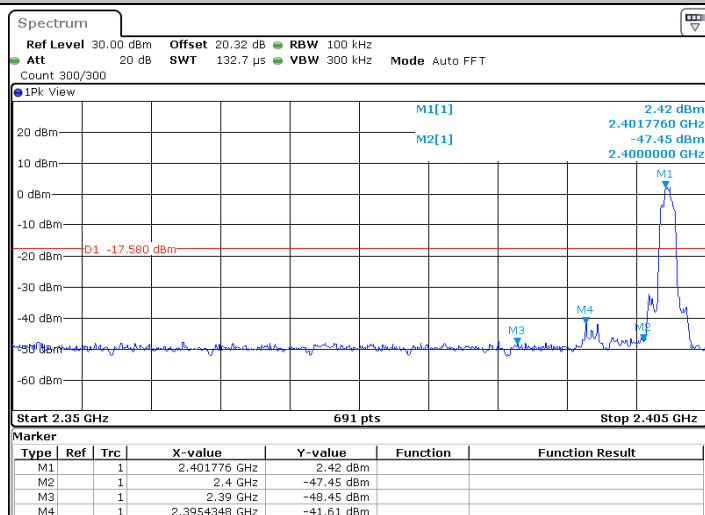
## 2DH1\_Ant1\_High\_Hop\_2480



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

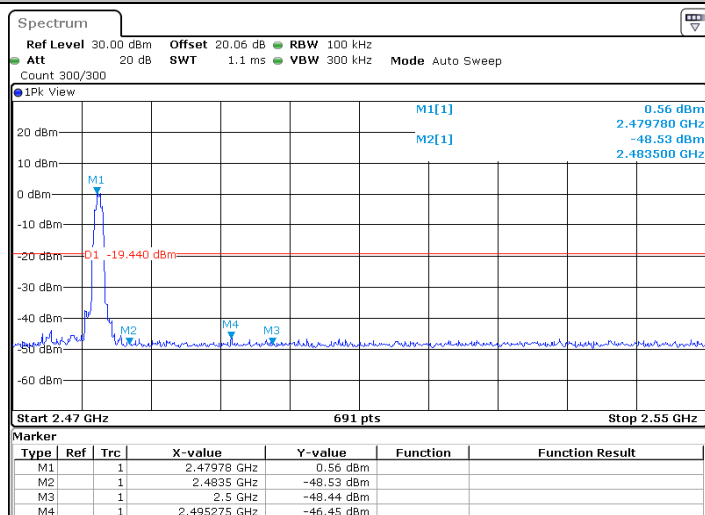
Date: 21.DEC.2024 11:08:56

## 3DH1\_Ant1\_Low\_2402



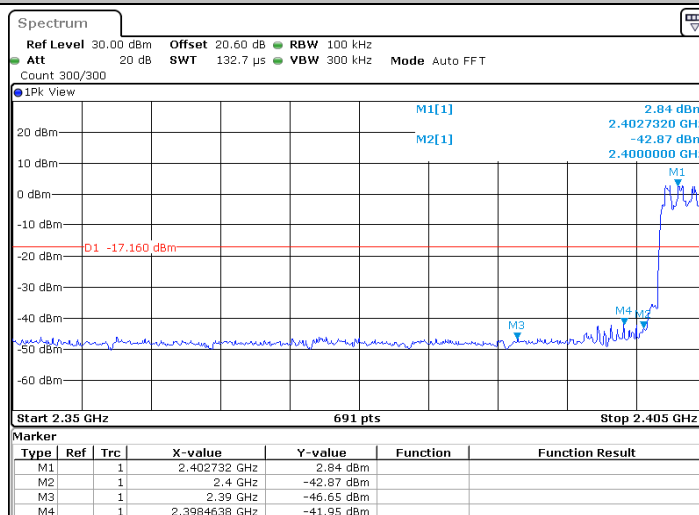
ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 12:28:15

## 3DH1\_Ant1\_High\_2480



ProjectNo.:2401W88467E-RF Tester:Navillite,Cai  
Date: 21.DEC.2024 12:28:54

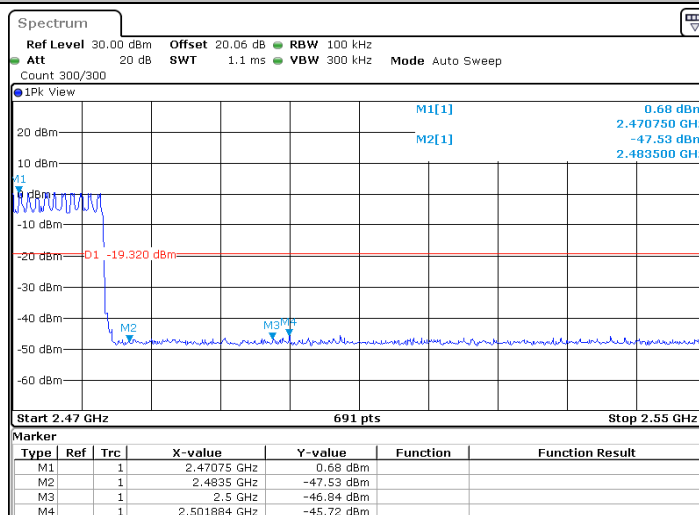
## 3DH1\_Ant1\_Low\_Hop\_2402



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 \*\*\*\*\*