

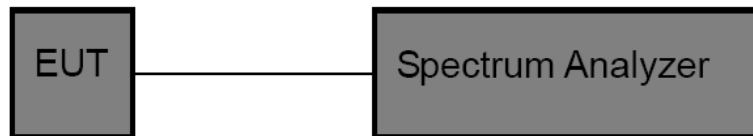
### 3.5. DTS Bandwidth

#### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

| Test Item     | Limit                             | Frequency Range (MHz) |
|---------------|-----------------------------------|-----------------------|
| DTS Bandwidth | $\geq 500$ kHz<br>(6dB bandwidth) | 2400~2483.5           |

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
  2. DTS Spectrum Setting:
    - (1) Set RBW = 100 kHz.
    - (2) Set the video bandwidth (VBW)  $\geq 3$  RBW.
    - (3) Detector = Peak.
    - (4) Trace mode = Max hold.
    - (5) Sweep = Auto couple.
- OCB Spectrum Setting:
- (1) Set RBW = 1% ~ 5% occupied bandwidth.
  - (2) Set the video bandwidth (VBW)  $\geq 3$  RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

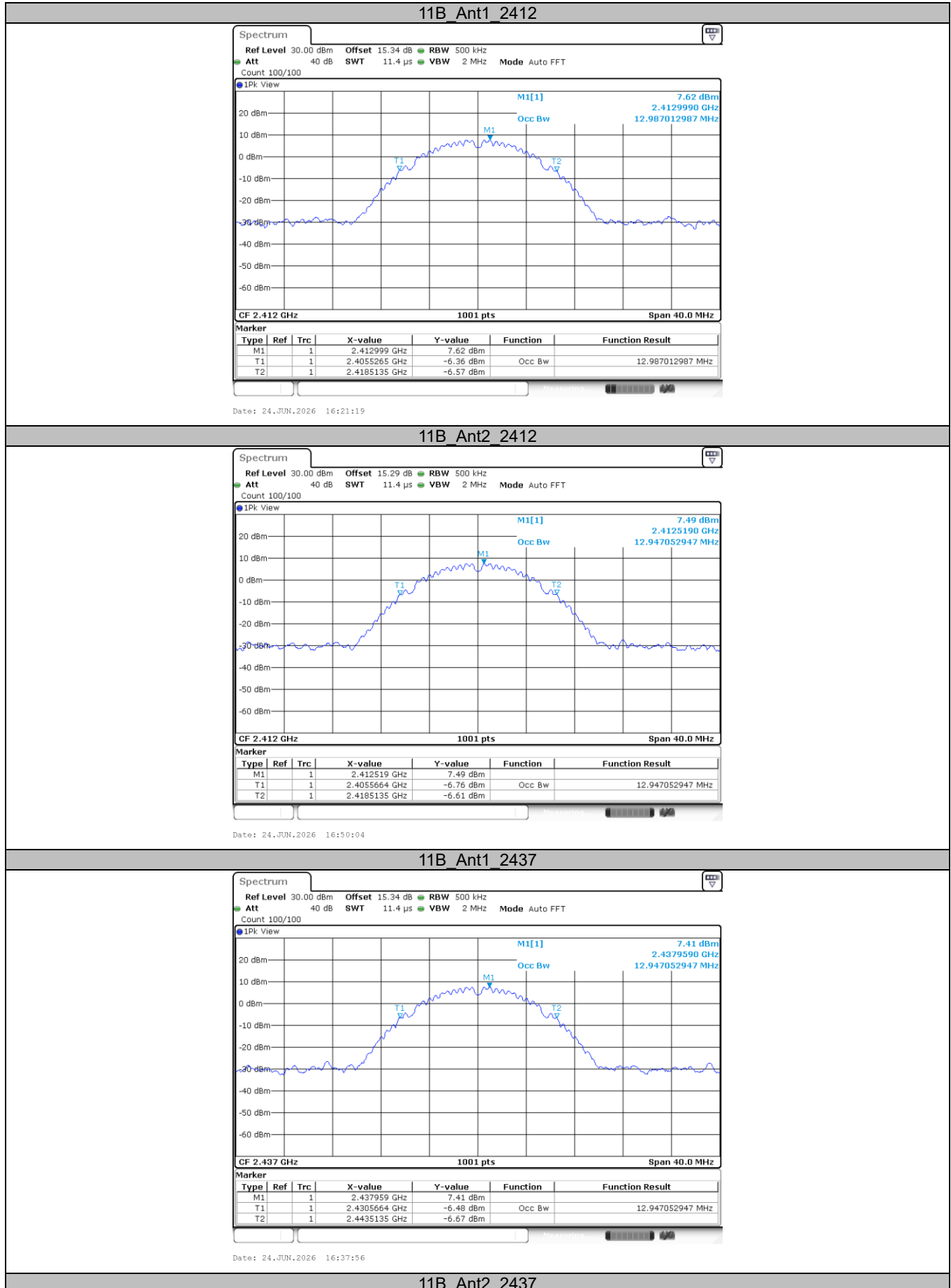
NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

#### Test Mode

Please refer to the clause 2.4.

**Test Result**

| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|--------------|---------|---------|------------|---------|
| 11B        | Ant1    | 2412           | 12.987    | 8.04         | 2408.00 | 2416.04 | 0.5        | PASS    |
|            | Ant2    | 2412           | 12.947    | 8.04         | 2408.00 | 2416.04 | 0.5        | PASS    |
|            | Ant1    | 2437           | 12.947    | 8.04         | 2433.00 | 2441.04 | 0.5        | PASS    |
|            | Ant2    | 2437           | 12.947    | 8.04         | 2433.00 | 2441.04 | 0.5        | PASS    |
|            | Ant1    | 2462           | 12.987    | 8.04         | 2458.00 | 2466.04 | 0.5        | PASS    |
|            | Ant2    | 2462           | 12.827    | 8.04         | 2458.00 | 2466.04 | 0.5        | PASS    |
| 11G        | Ant1    | 2412           | 16.743    | 16.32        | 2403.88 | 2420.20 | 0.5        | PASS    |
|            | Ant2    | 2412           | 16.983    | 15.12        | 2404.48 | 2419.60 | 0.5        | PASS    |
|            | Ant1    | 2437           | 17.023    | 16.32        | 2428.88 | 2445.20 | 0.5        | PASS    |
|            | Ant2    | 2437           | 16.943    | 15.08        | 2429.48 | 2444.56 | 0.5        | PASS    |
|            | Ant1    | 2462           | 17.223    | 13.84        | 2455.72 | 2469.56 | 0.5        | PASS    |
|            | Ant2    | 2462           | 16.863    | 15.08        | 2454.48 | 2469.56 | 0.5        | PASS    |
| 11N20MIMO  | Ant1    | 2412           | 17.822    | 15.08        | 2404.48 | 2419.56 | 0.5        | PASS    |
|            | Ant2    | 2412           | 17.862    | 17.56        | 2403.24 | 2420.80 | 0.5        | PASS    |
|            | Ant1    | 2437           | 17.742    | 17.60        | 2428.20 | 2445.80 | 0.5        | PASS    |
|            | Ant2    | 2437           | 17.662    | 13.84        | 2430.72 | 2444.56 | 0.5        | PASS    |
|            | Ant1    | 2462           | 17.862    | 13.80        | 2455.68 | 2469.48 | 0.5        | PASS    |
|            | Ant2    | 2462           | 17.822    | 15.68        | 2454.48 | 2470.16 | 0.5        | PASS    |
| 11N40MIMO  | Ant1    | 2422           | 36.204    | 35.04        | 2404.48 | 2439.52 | 0.5        | PASS    |
|            | Ant2    | 2422           | 36.923    | 30.08        | 2409.52 | 2439.60 | 0.5        | PASS    |
|            | Ant1    | 2437           | 36.683    | 35.12        | 2419.48 | 2454.60 | 0.5        | PASS    |
|            | Ant2    | 2437           | 36.444    | 31.28        | 2419.48 | 2450.76 | 0.5        | PASS    |
|            | Ant1    | 2452           | 36.364    | 32.64        | 2436.96 | 2469.60 | 0.5        | PASS    |
|            | Ant2    | 2452           | 36.444    | 36.08        | 2433.84 | 2469.92 | 0.5        | PASS    |
| 11AX20MIMO | Ant1    | 2412           | 18.981    | 16.68        | 2403.76 | 2420.44 | 0.5        | PASS    |
|            | Ant2    | 2412           | 18.861    | 18.92        | 2402.56 | 2421.48 | 0.5        | PASS    |
|            | Ant1    | 2437           | 19.061    | 17.44        | 2428.60 | 2446.04 | 0.5        | PASS    |
|            | Ant2    | 2437           | 19.261    | 16.52        | 2429.00 | 2445.52 | 0.5        | PASS    |
|            | Ant1    | 2462           | 19.221    | 18.48        | 2452.72 | 2471.20 | 0.5        | PASS    |
|            | Ant2    | 2462           | 19.101    | 16.52        | 2453.76 | 2470.28 | 0.5        | PASS    |
| 11AX40MIMO | Ant1    | 2422           | 37.962    | 35.60        | 2403.68 | 2439.28 | 0.5        | PASS    |
|            | Ant2    | 2422           | 38.042    | 35.12        | 2404.48 | 2439.60 | 0.5        | PASS    |
|            | Ant1    | 2437           | 37.802    | 36.32        | 2419.48 | 2455.80 | 0.5        | PASS    |
|            | Ant2    | 2437           | 37.882    | 35.12        | 2419.48 | 2454.60 | 0.5        | PASS    |
|            | Ant1    | 2452           | 38.122    | 35.12        | 2434.40 | 2469.52 | 0.5        | PASS    |
|            | Ant2    | 2452           | 38.282    | 37.36        | 2433.20 | 2470.56 | 0.5        | PASS    |

**99% Bandwidth:**

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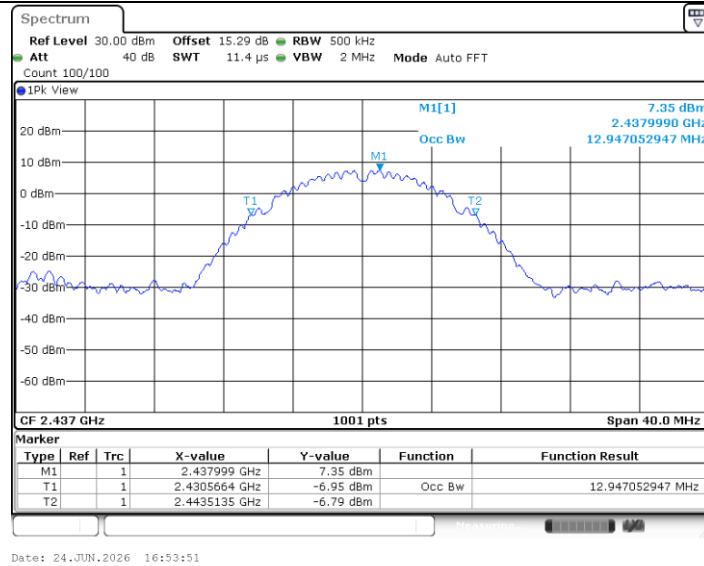
Tel.: (86)755-27521059

Fax: (86)755-27521011

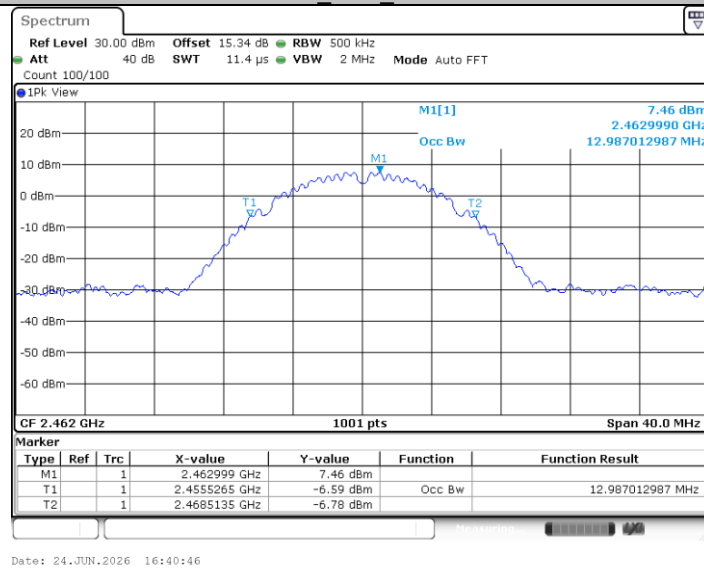
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TRF No:CTC-TR-057\_A5

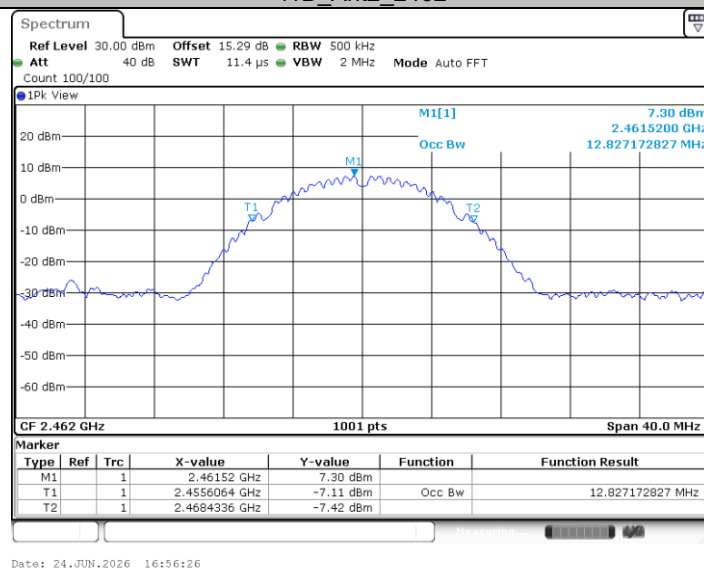
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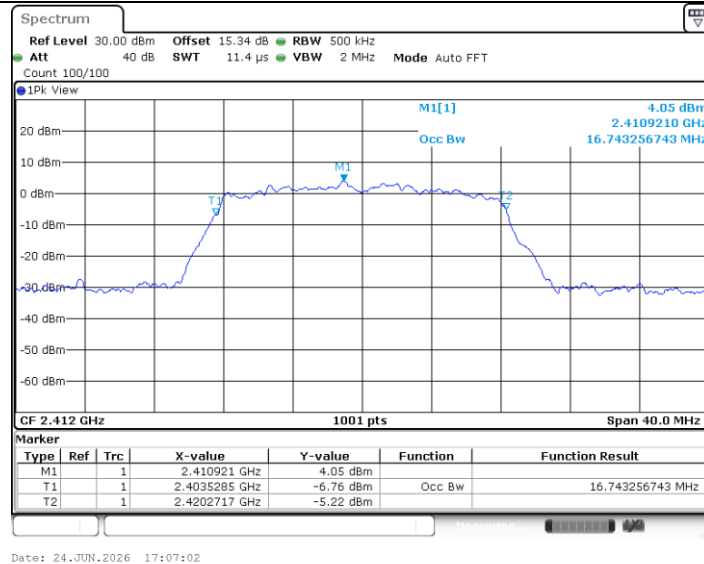
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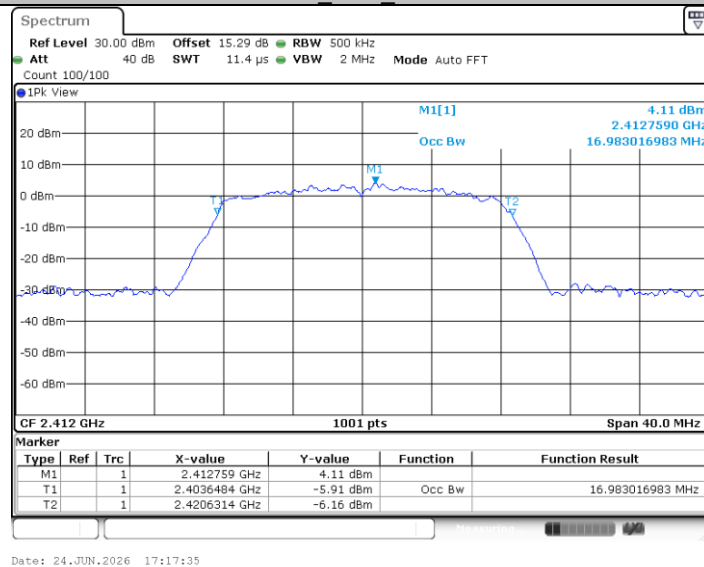
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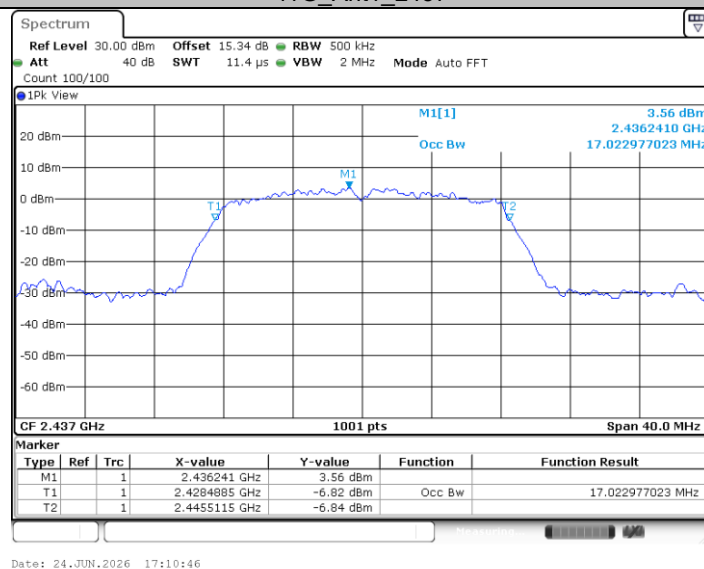
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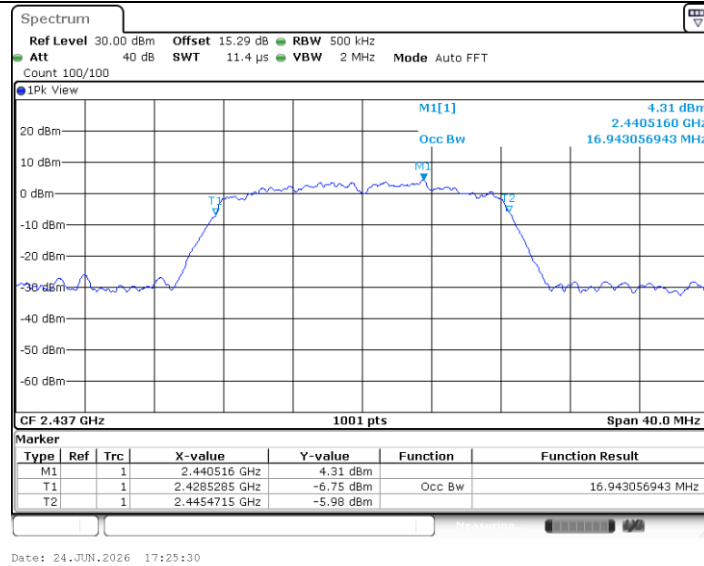
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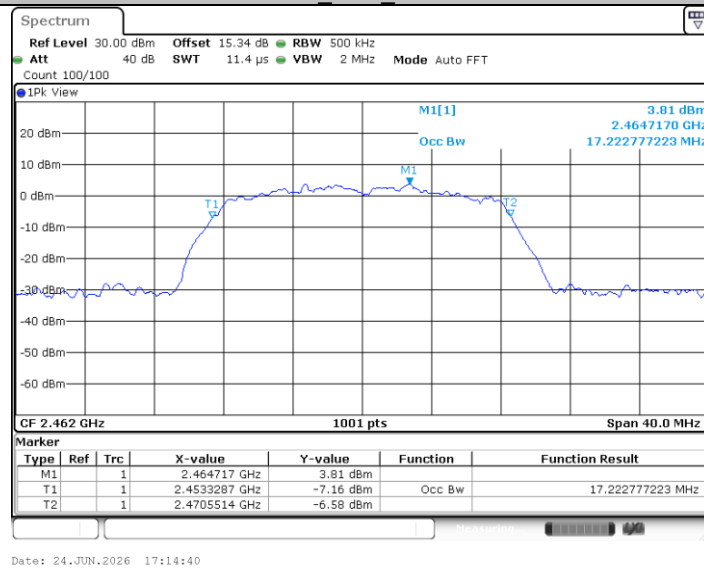
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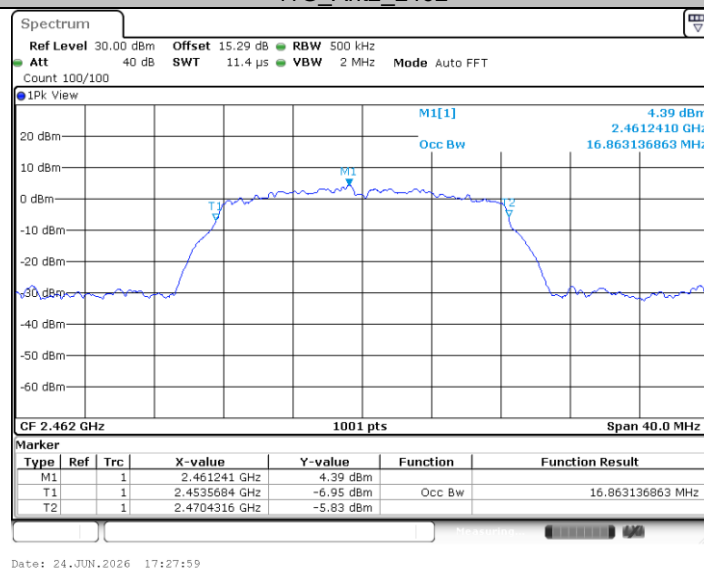
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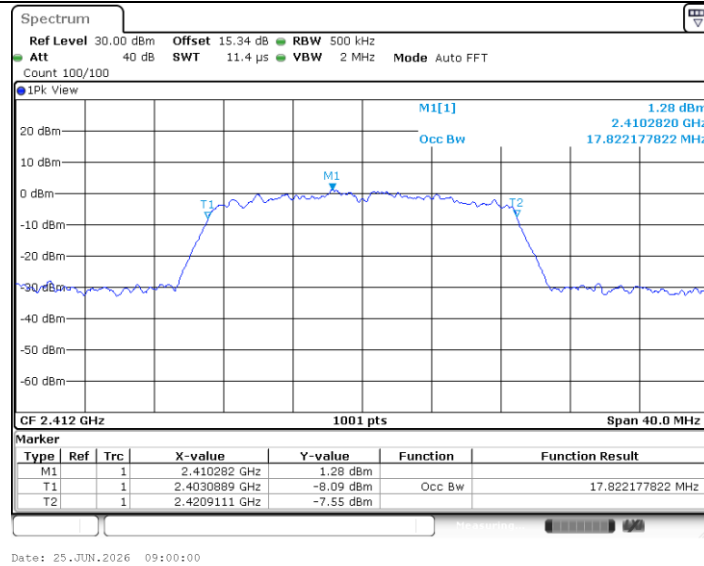
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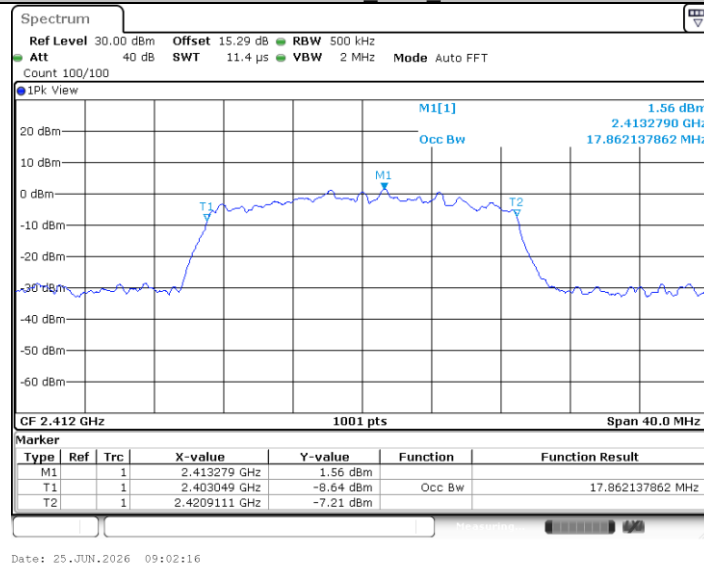
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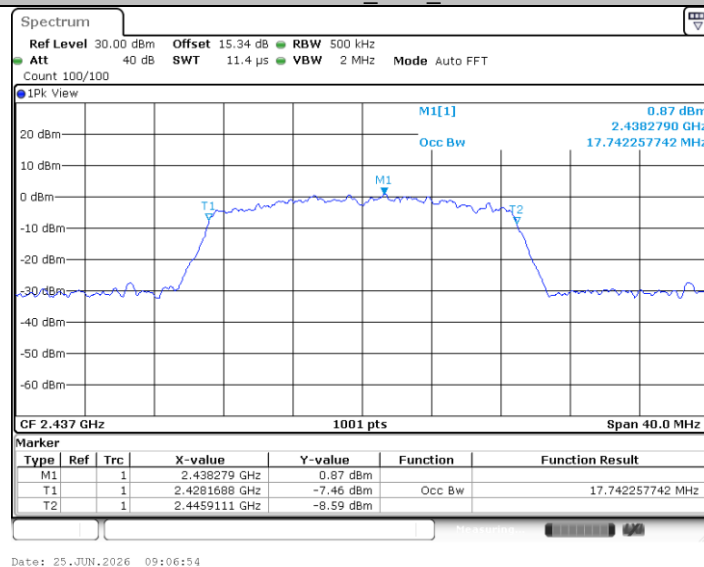
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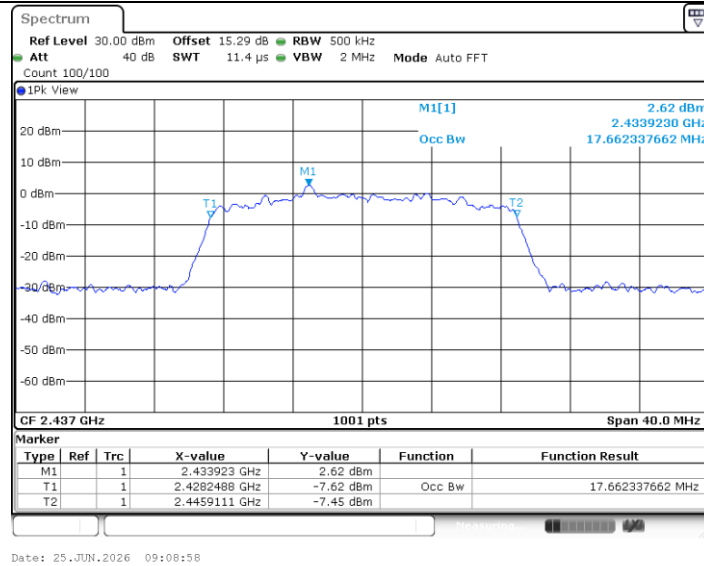
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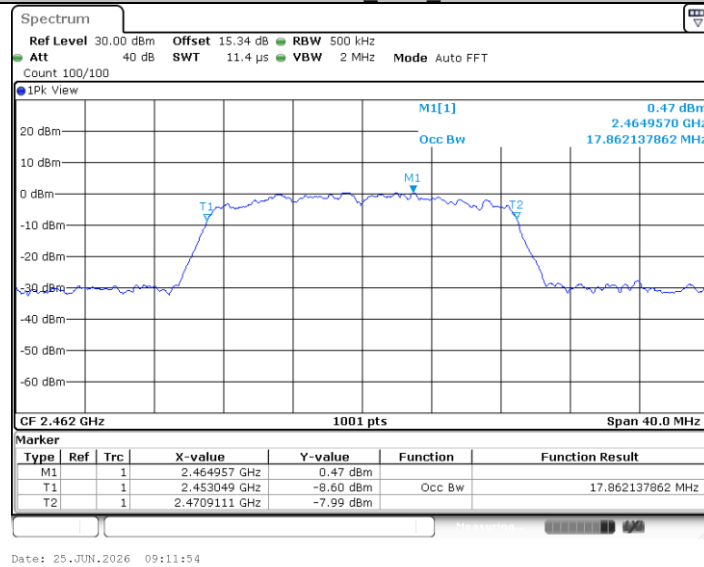
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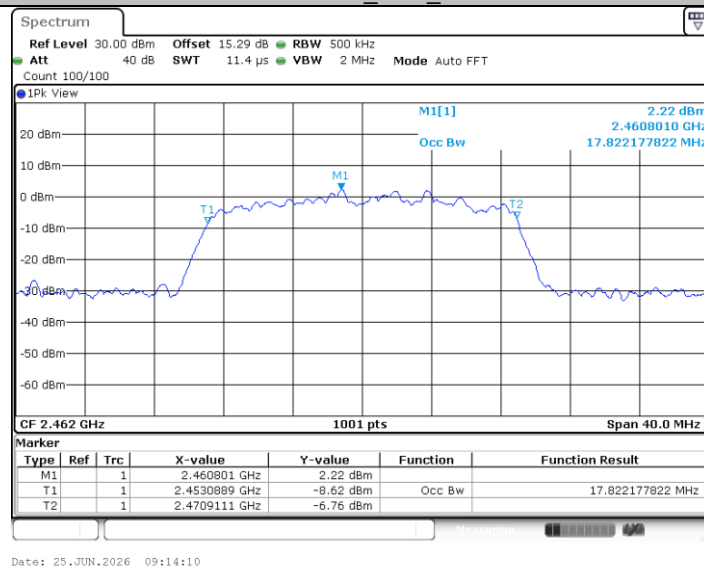
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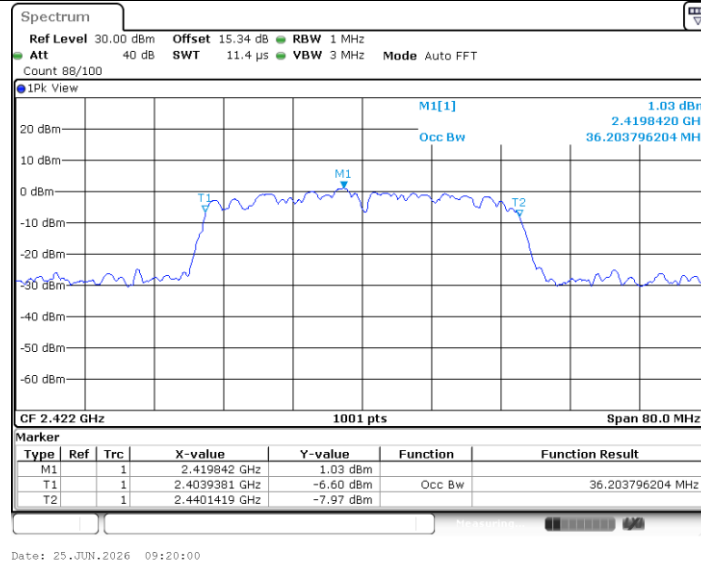
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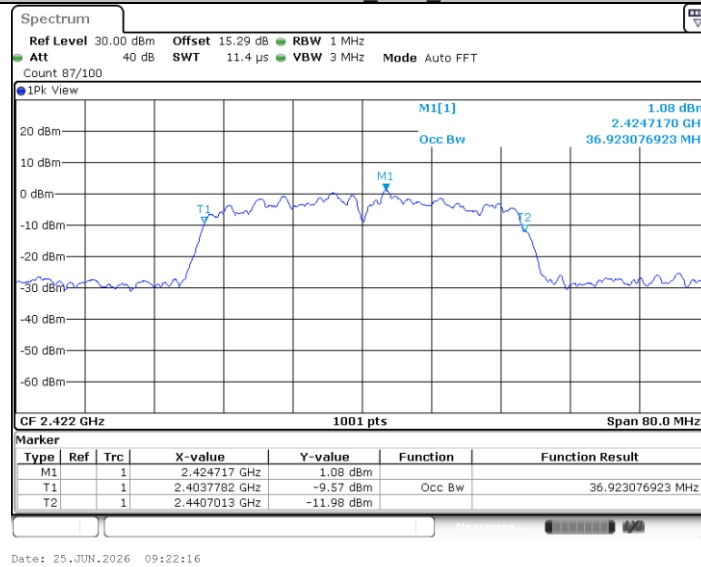
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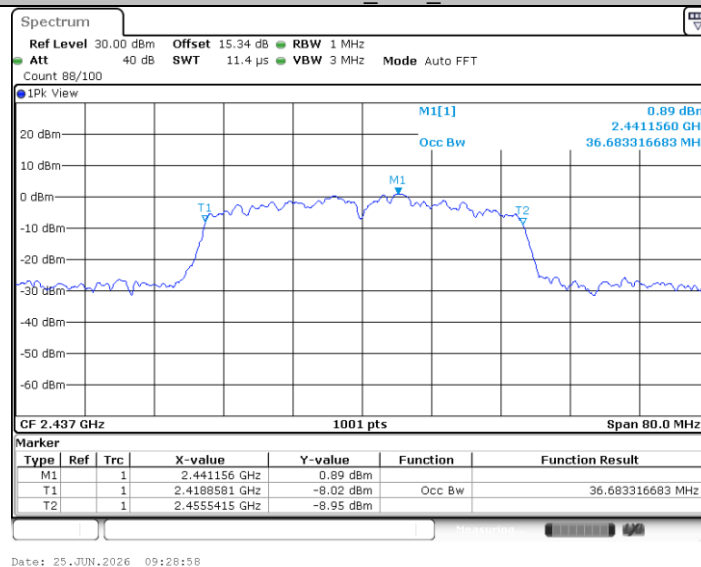
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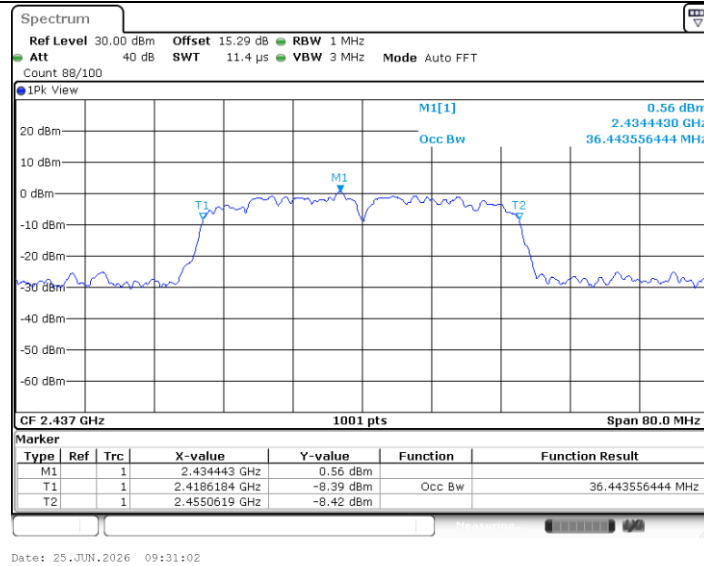
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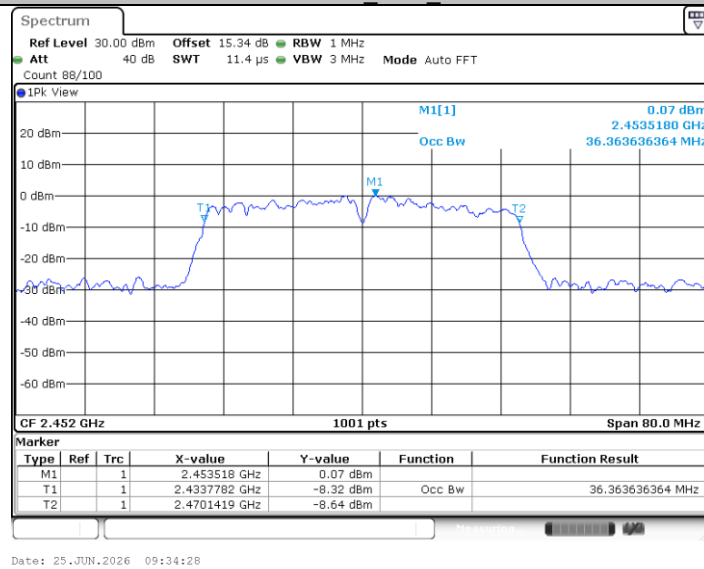
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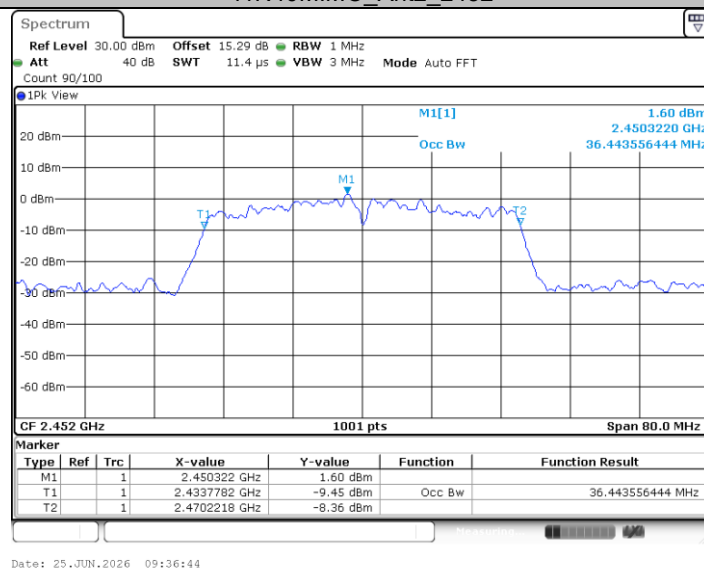
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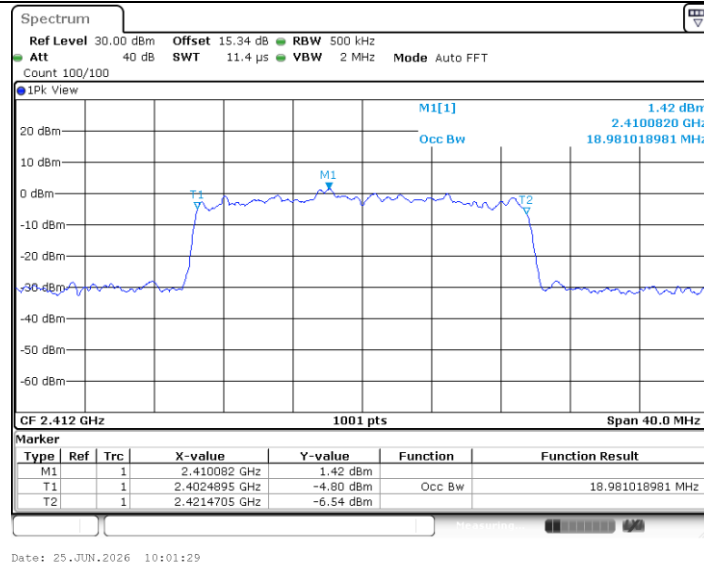
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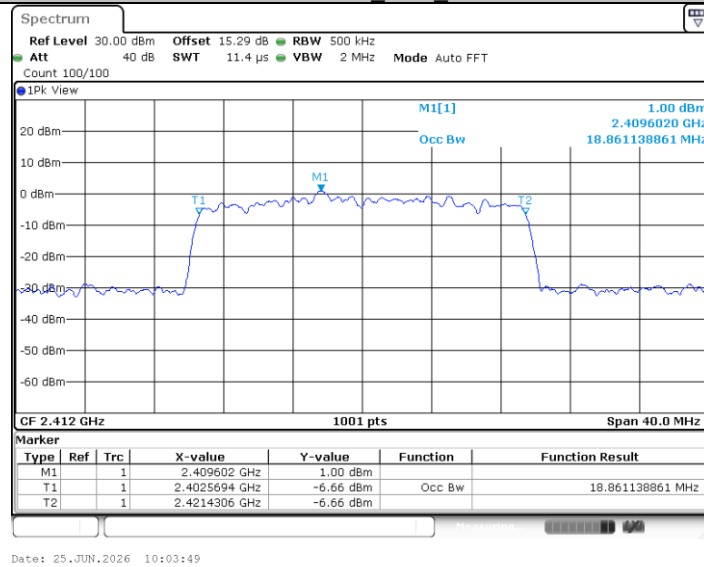
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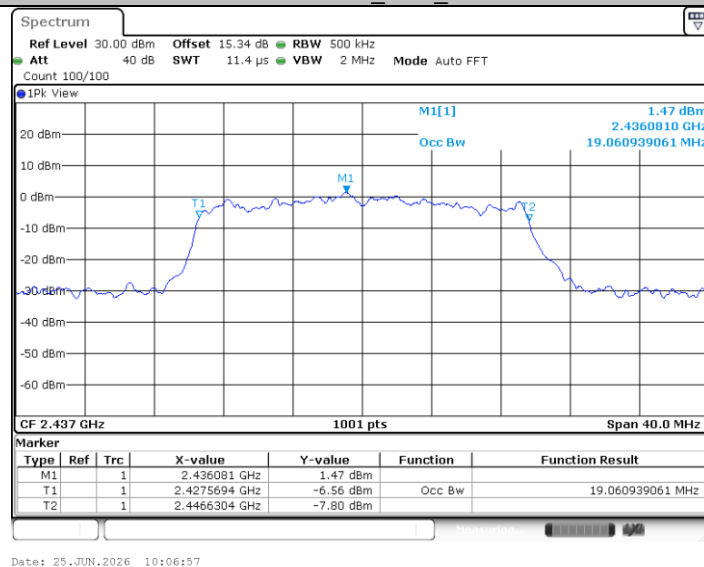
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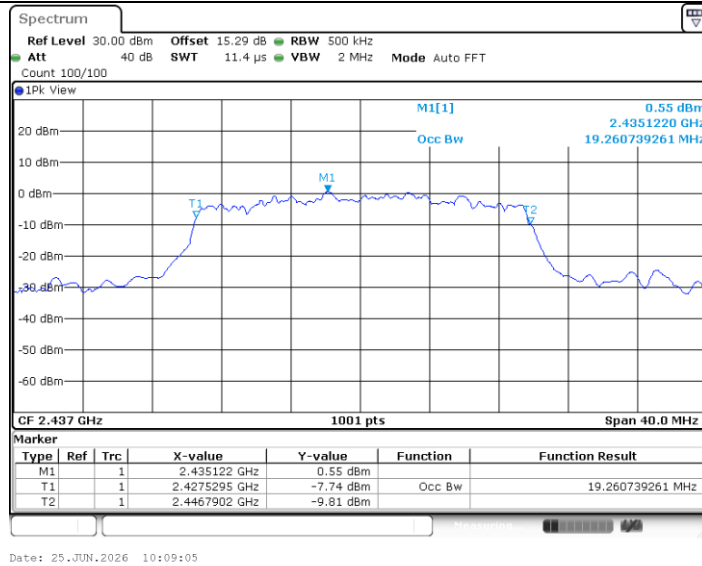
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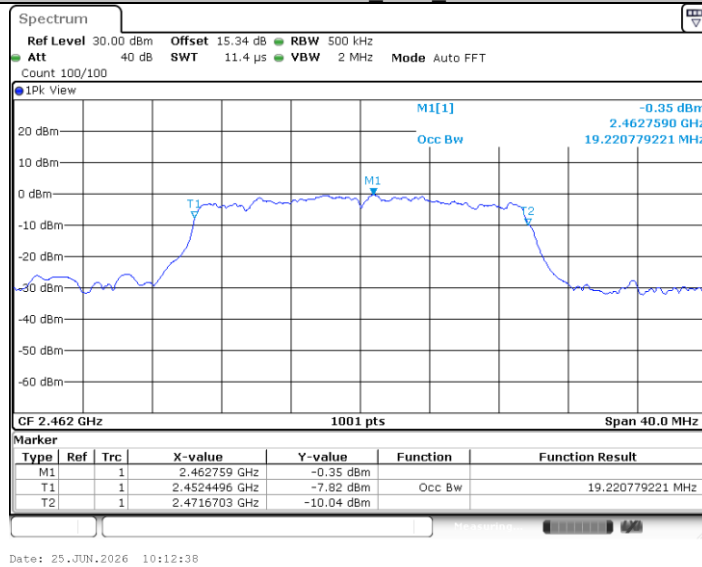
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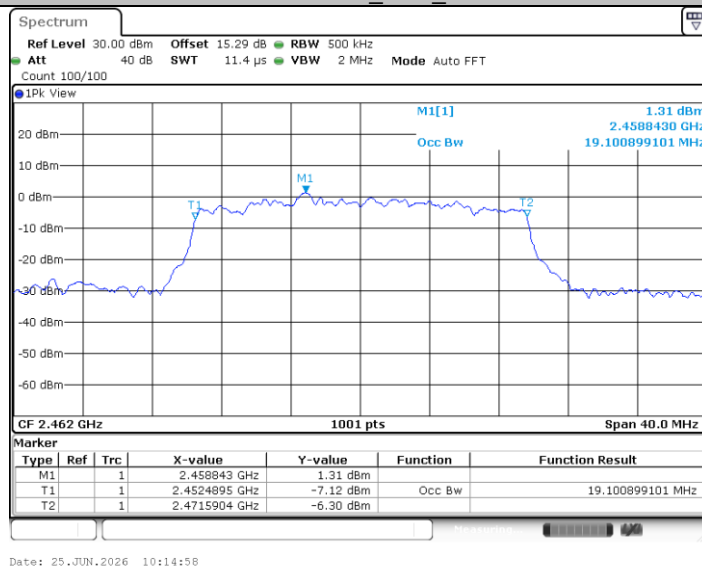
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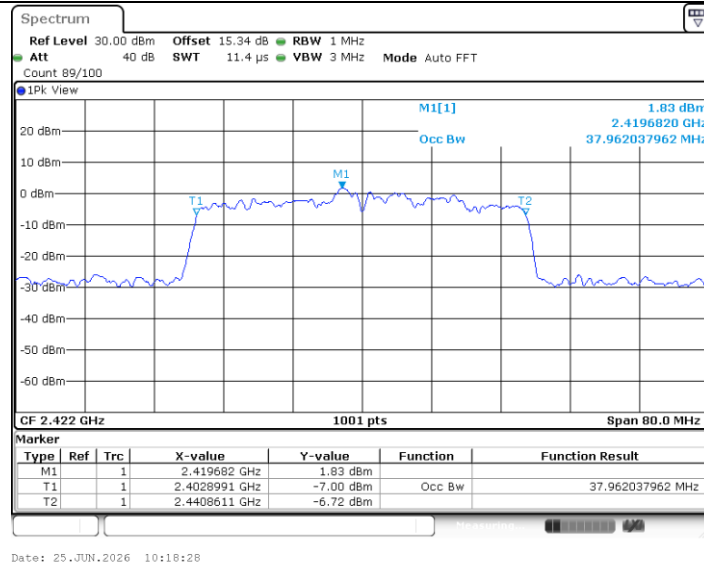
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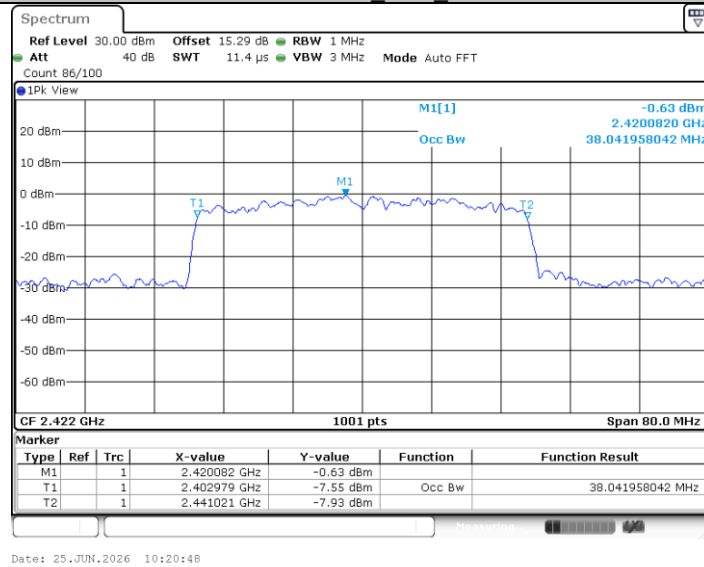
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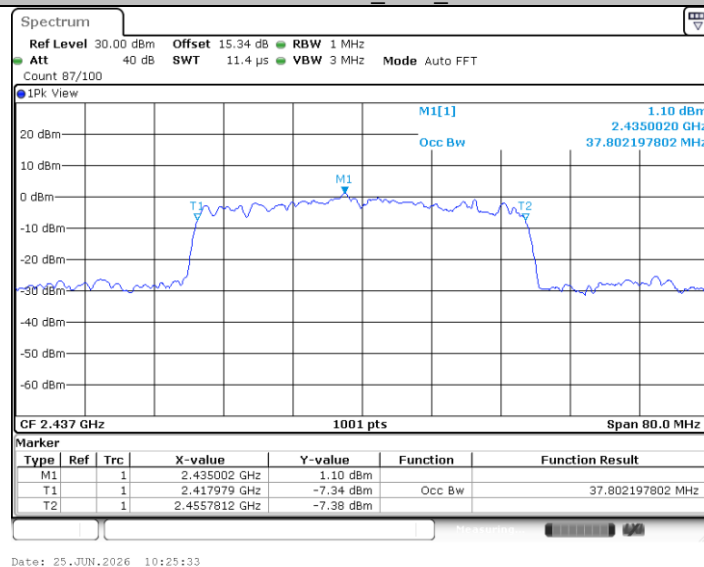
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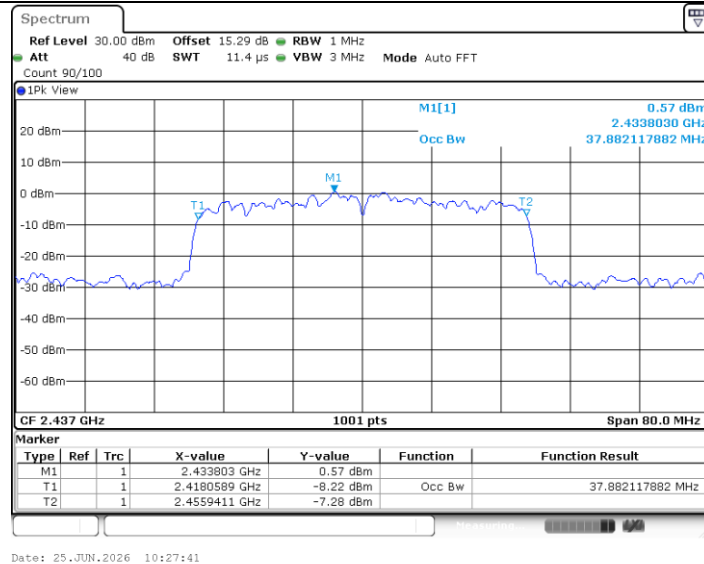
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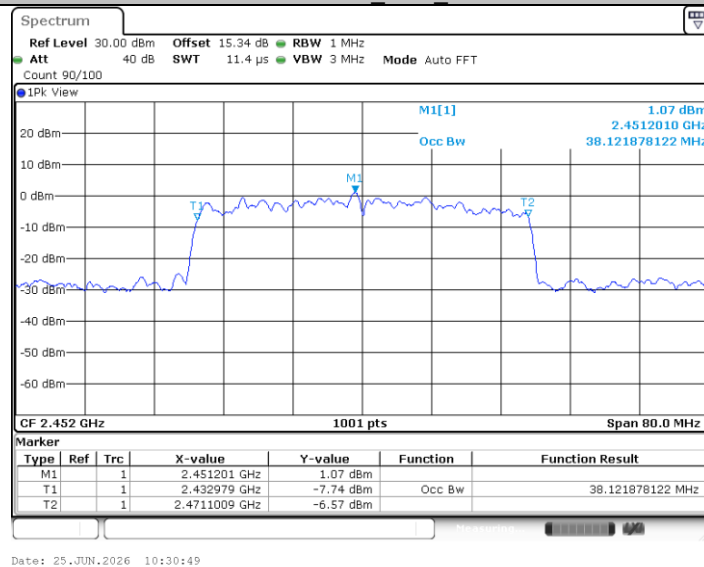
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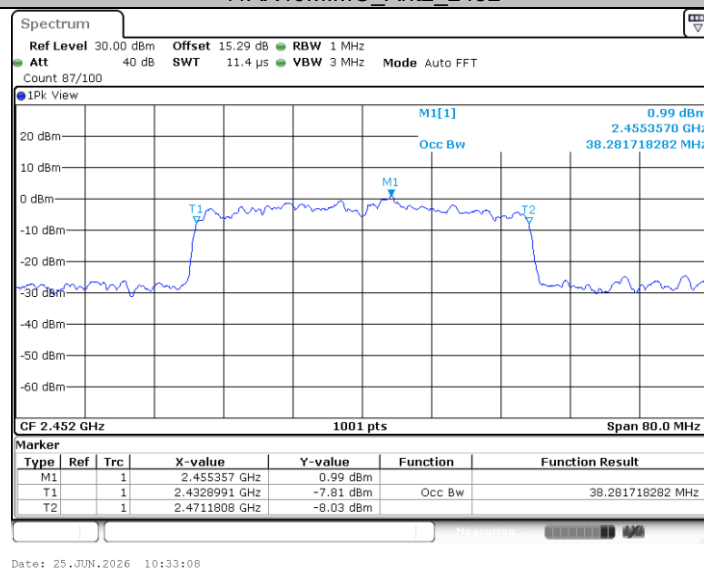
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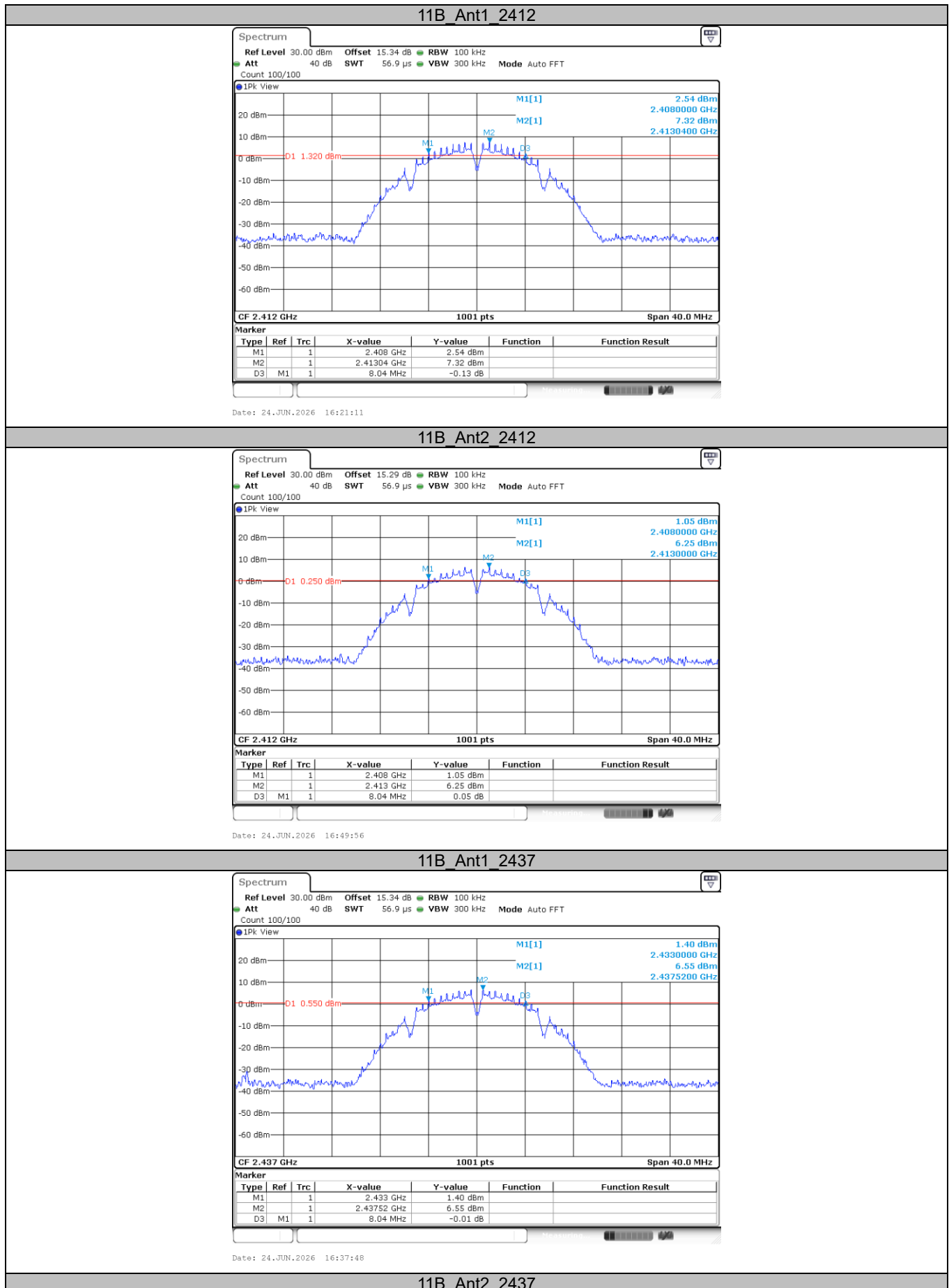


## 11AX40MIMO\_Ant1\_2452



## 11AX40MIMO\_Ant2\_2452



**DTS Bandwidth:**

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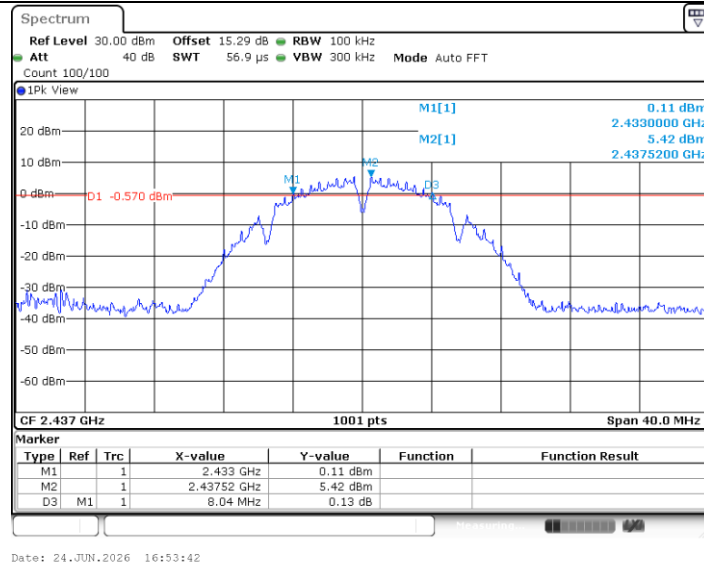
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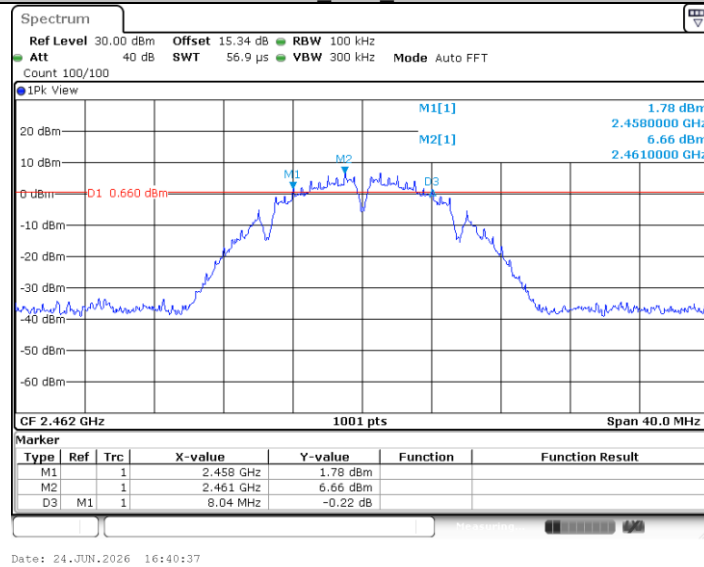
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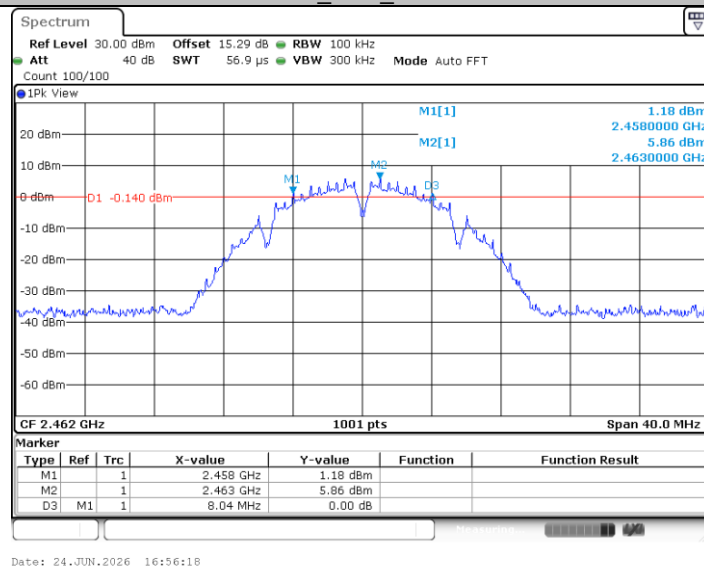
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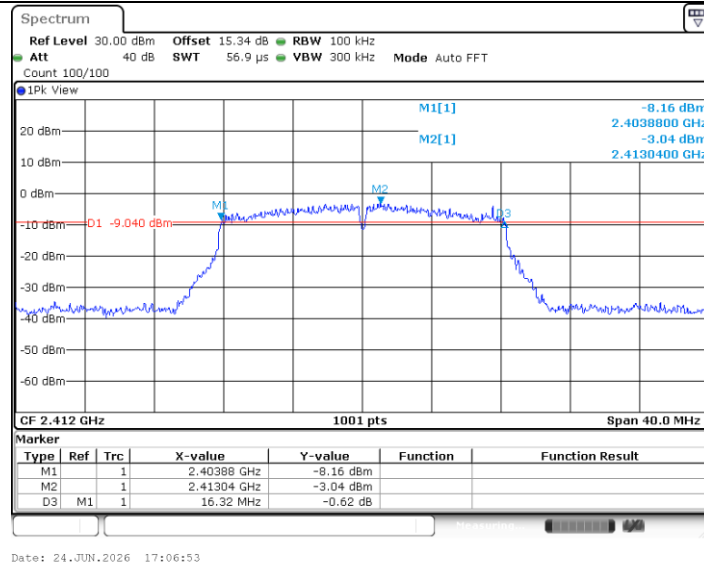
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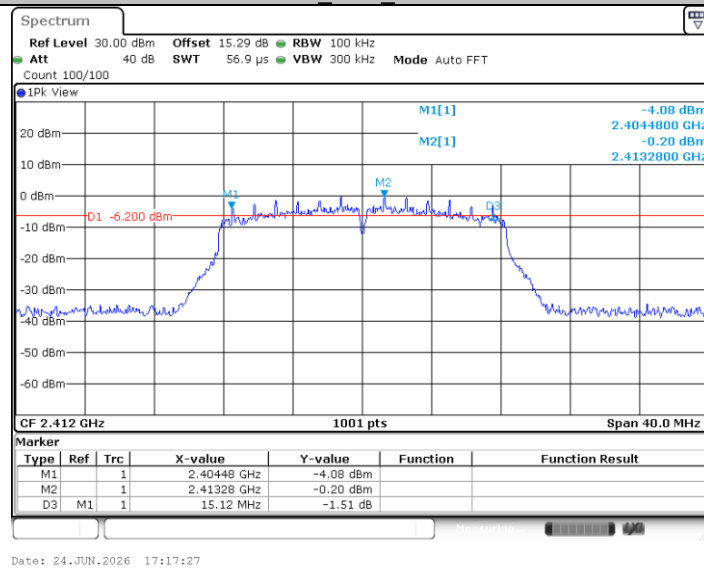
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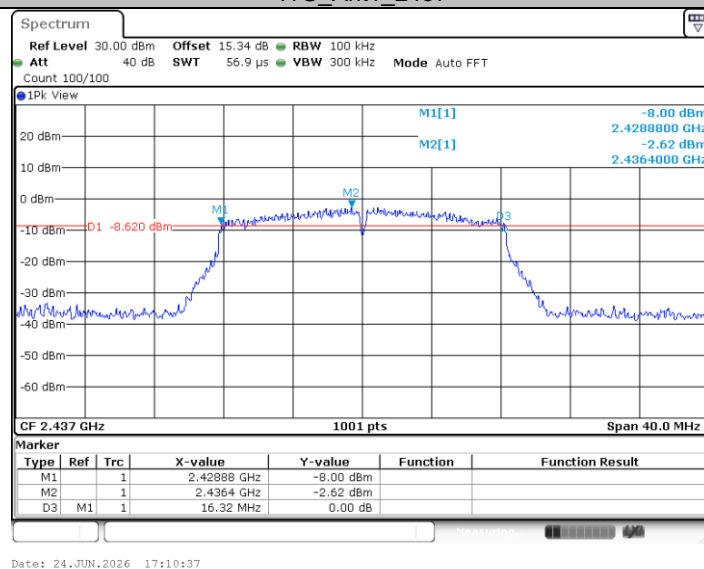
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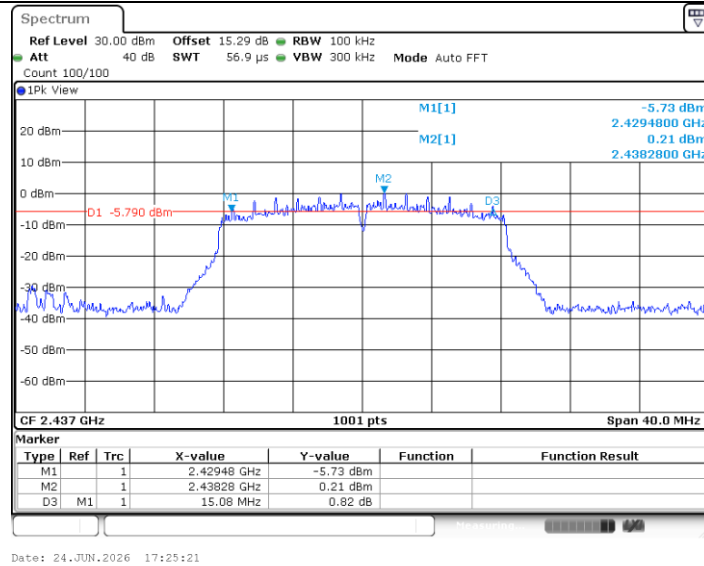
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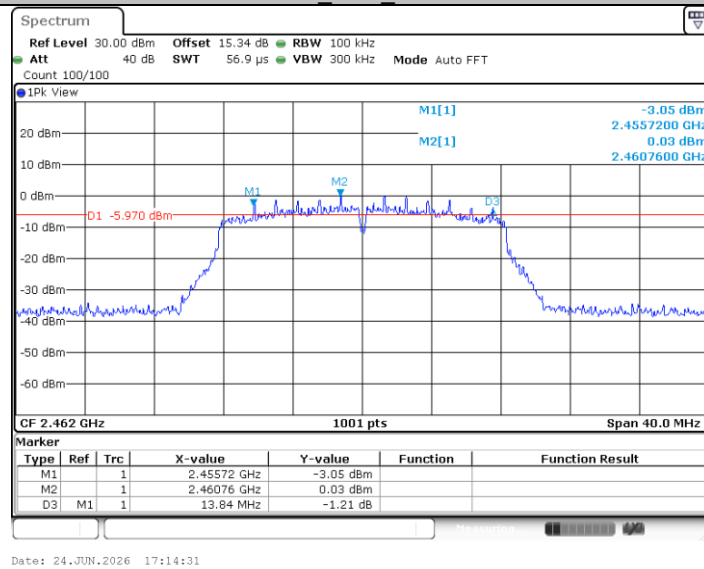
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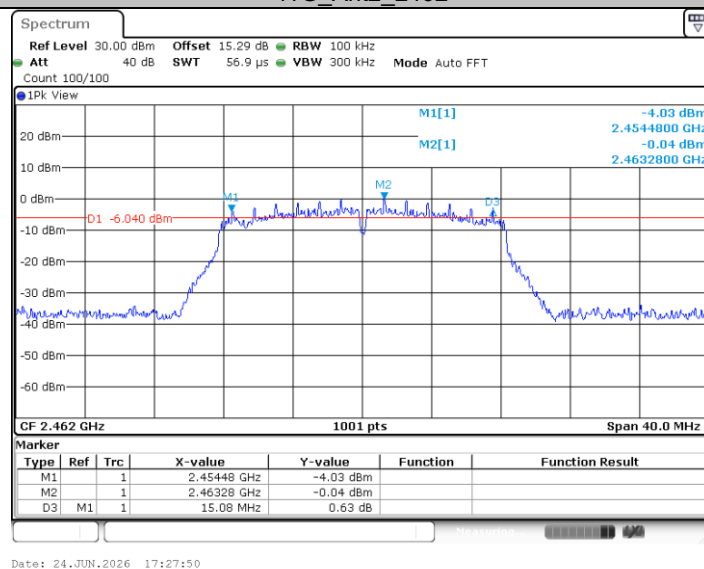
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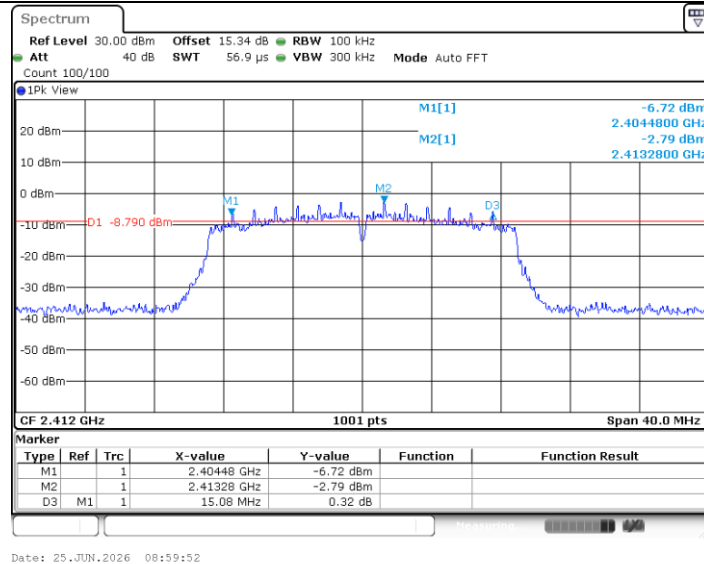
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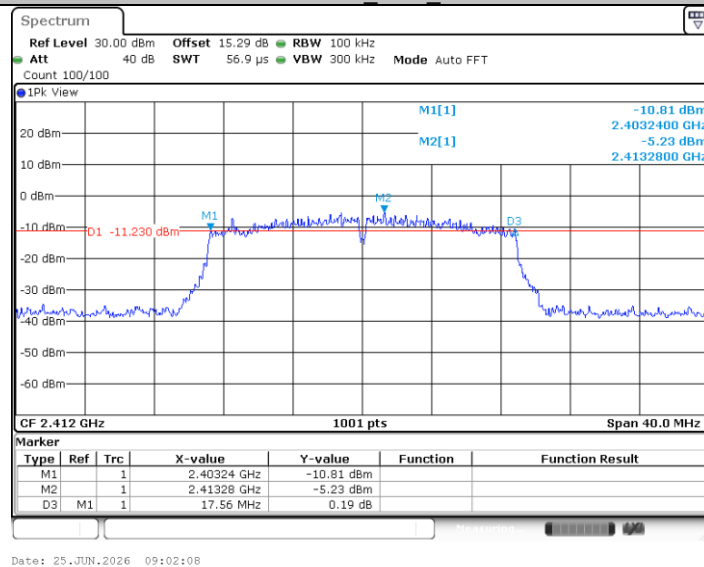
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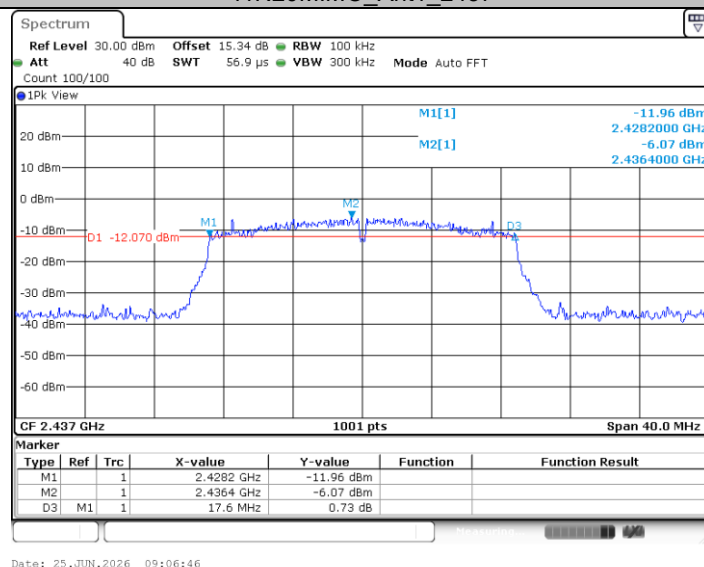
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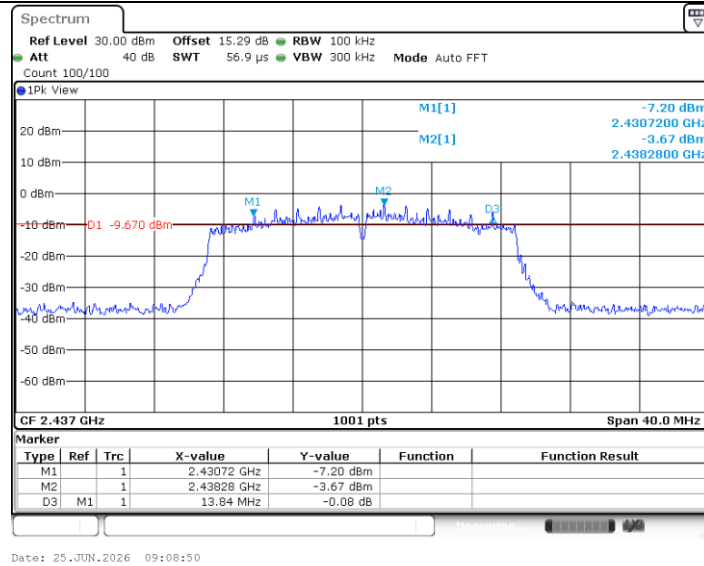
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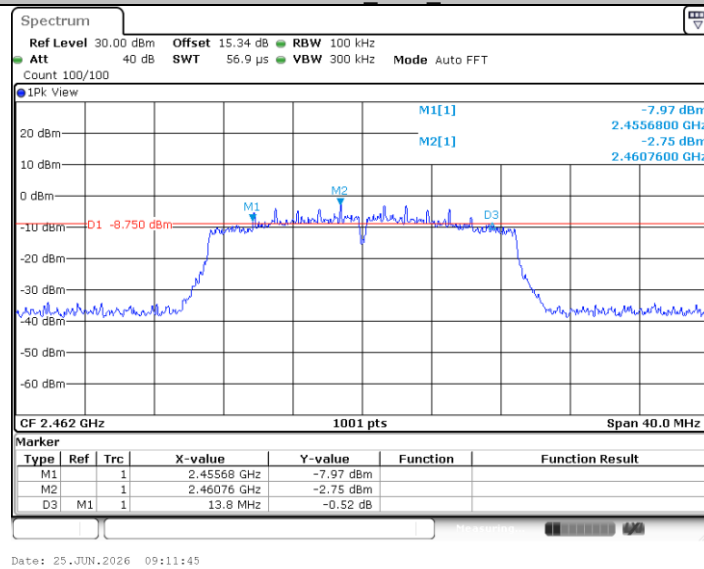
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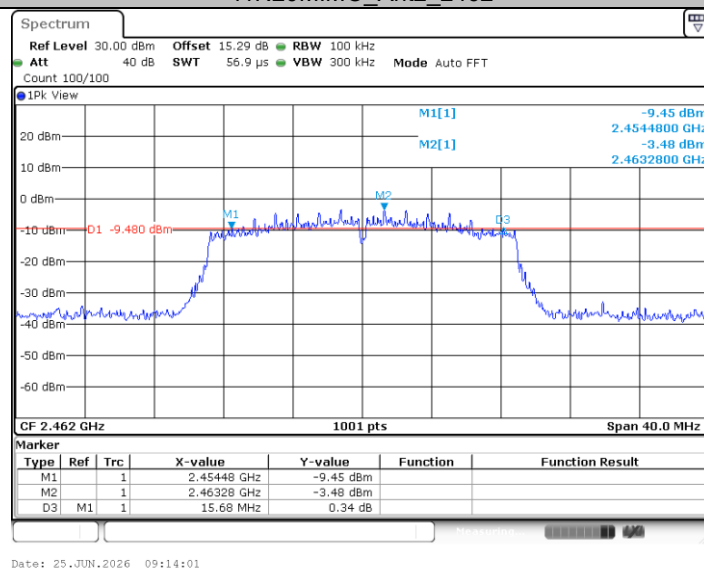
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## 11N20MIMO\_Ant1\_2462



## 11N20MIMO\_Ant2\_2462



## 11N40MIMO\_Ant1\_2422

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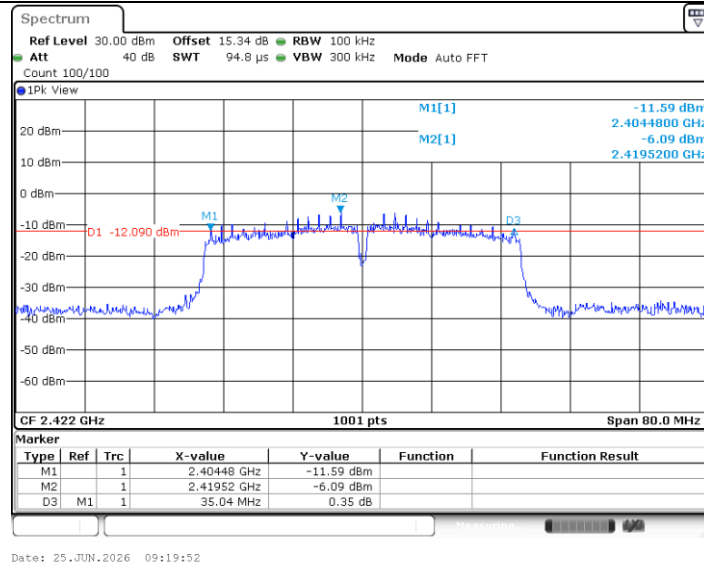
Tel.: (86)755-27521059

Fax: (86)755-27521011

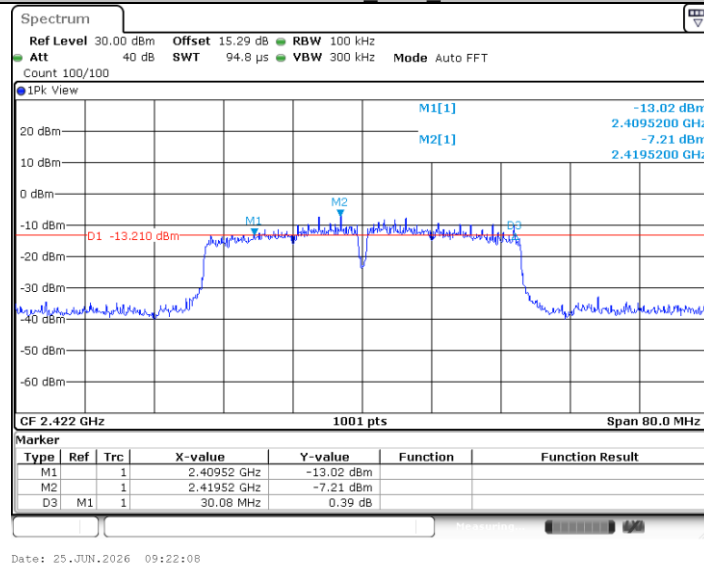
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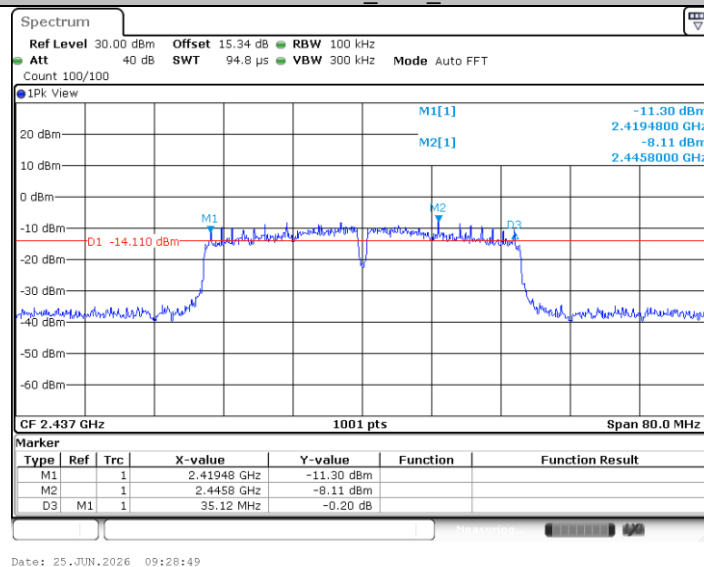
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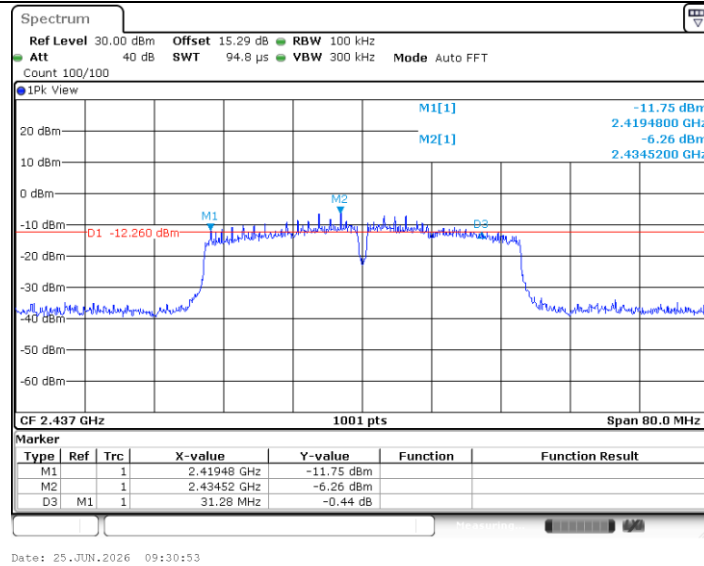
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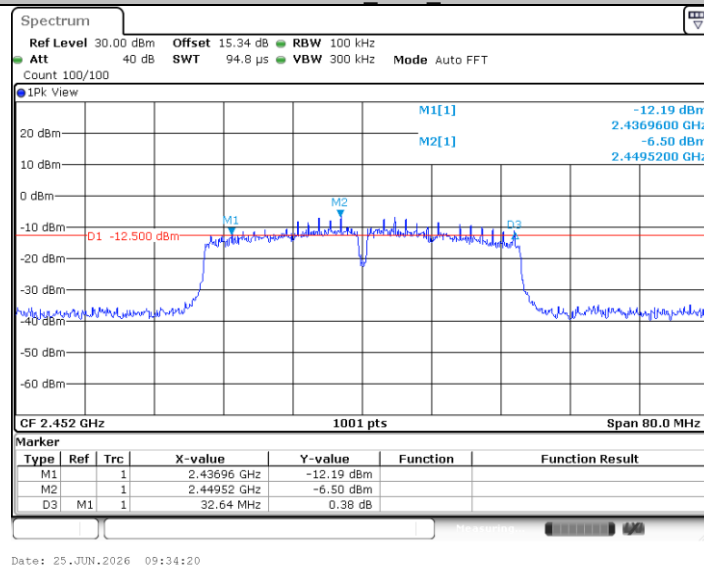
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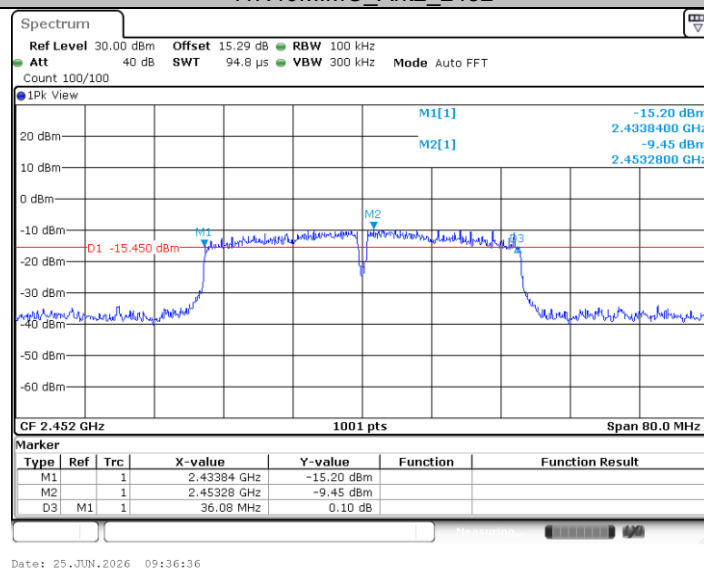
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## 11N40MIMO\_Ant1\_2452



## 11N40MIMO\_Ant2\_2452



## 11AX20MIMO\_Ant1\_2412

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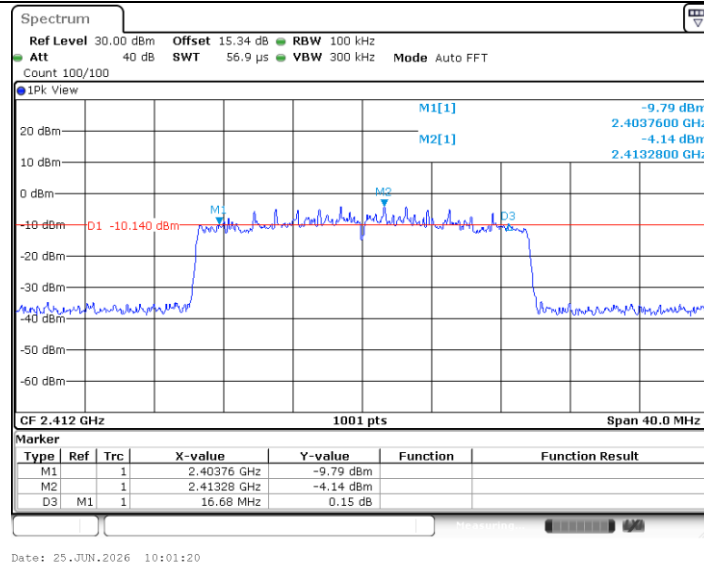
Tel.: (86)755-27521059

Fax: (86)755-27521011

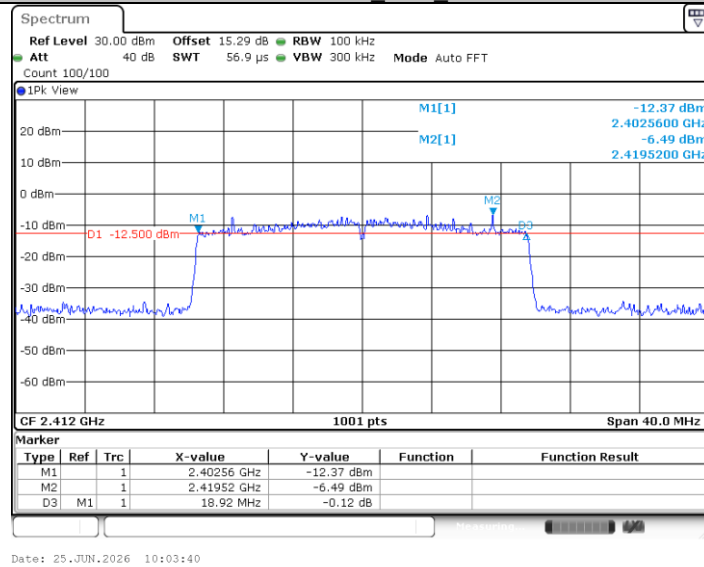
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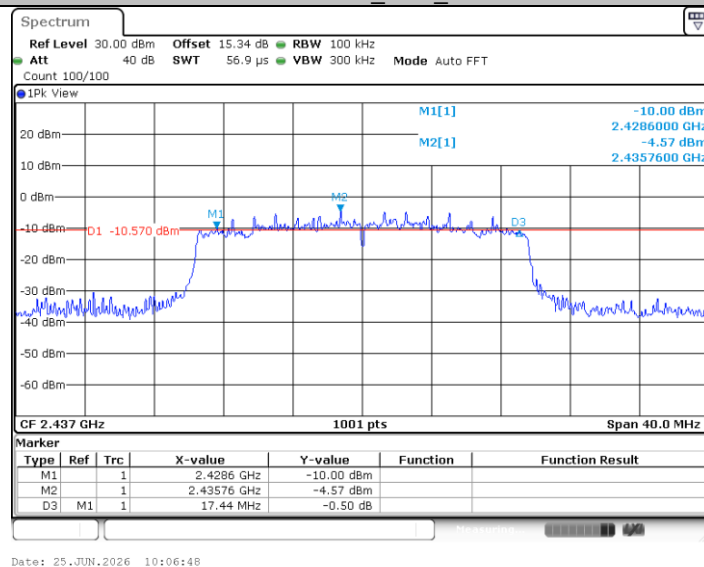
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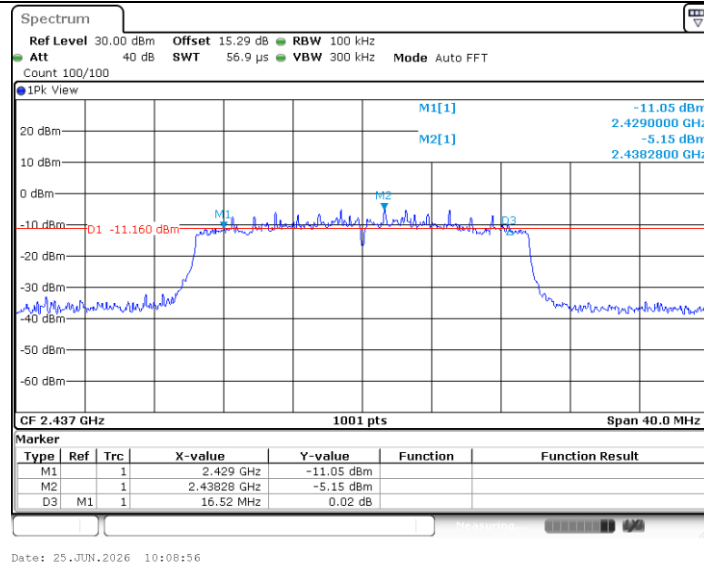
## 11AX20MIMO\_Ant2\_2412



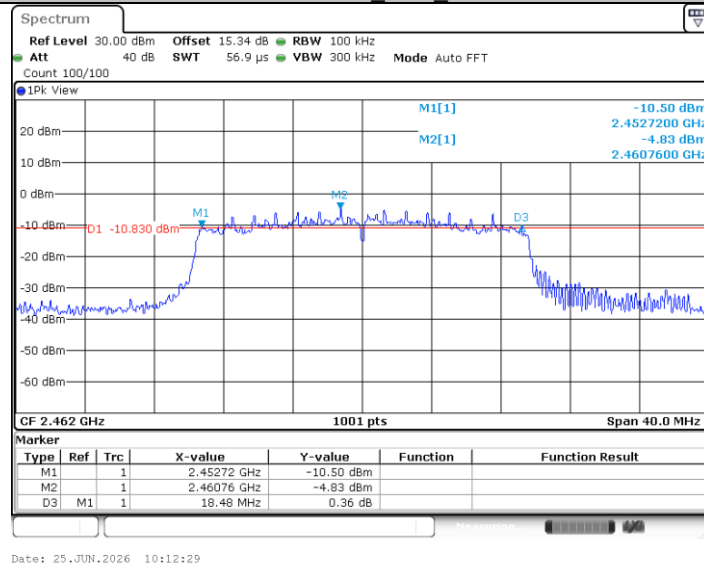
## 11AX20MIMO\_Ant1\_2437



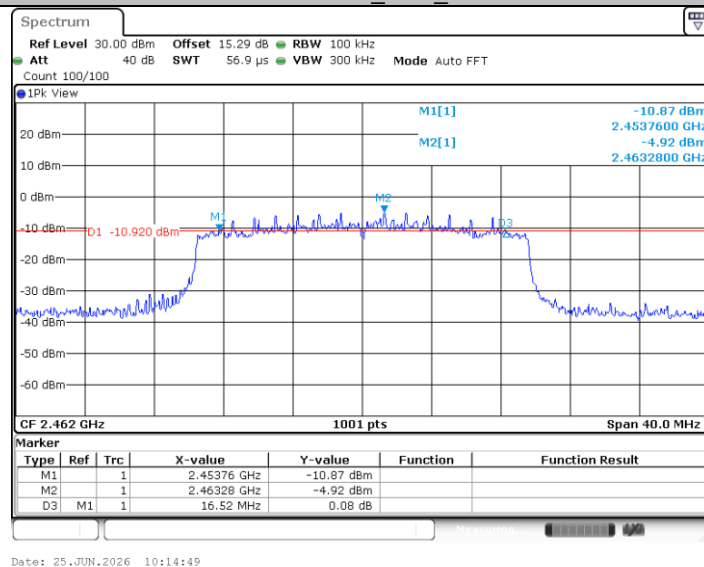
## 11AX20MIMO\_Ant2\_2437



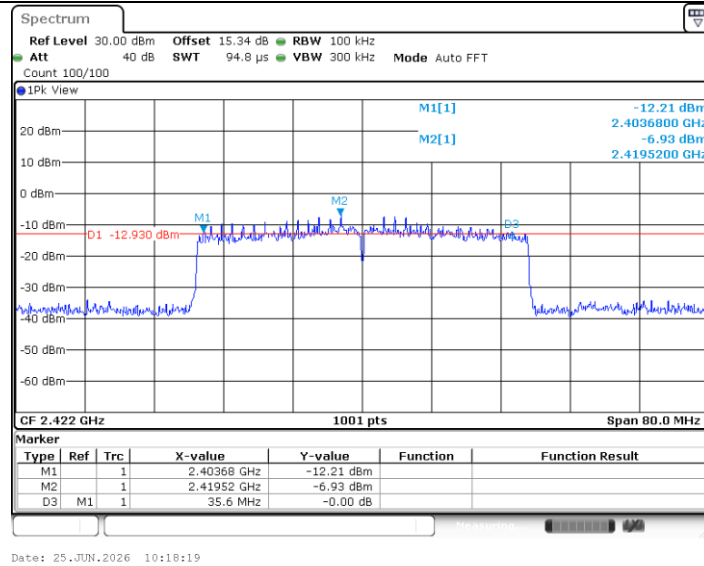
## 11AX20MIMO\_Ant1\_2462



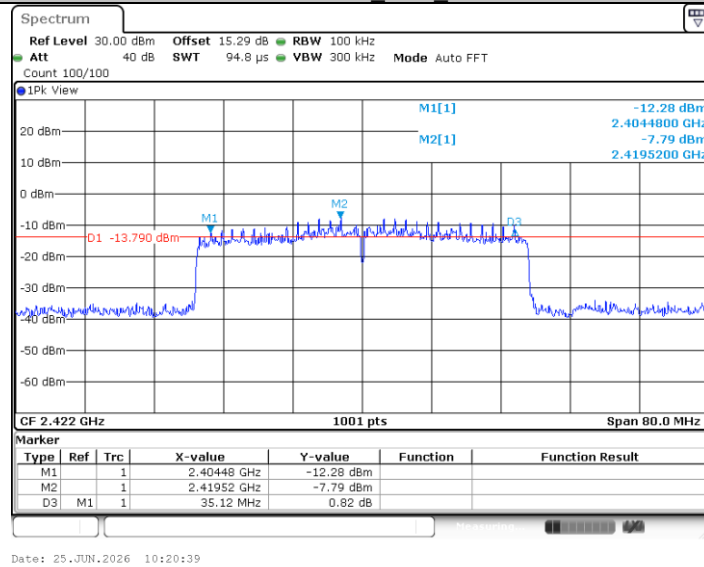
## 11AX20MIMO\_Ant2\_2462



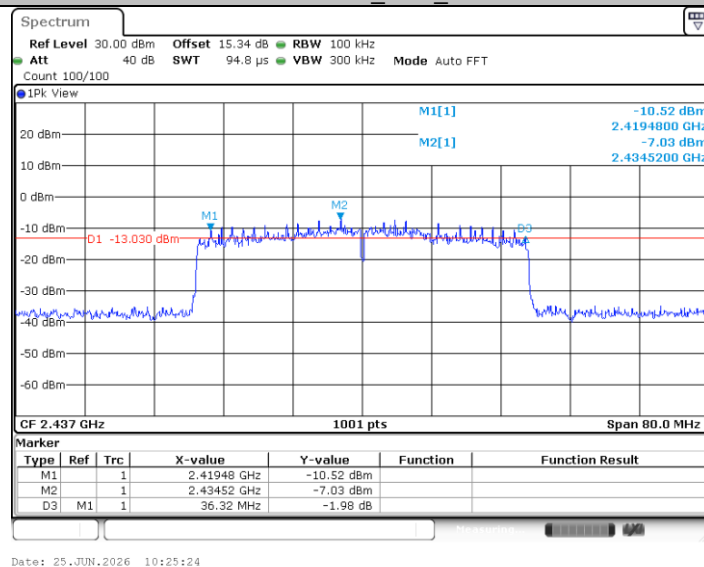
## 11AX40MIMO\_Ant1\_2422



## 11AX40MIMO\_Ant2\_2422



## 11AX40MIMO\_Ant1\_2437



## 11AX40MIMO\_Ant2\_2437

CTC Laboratories, Inc.

Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Langqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

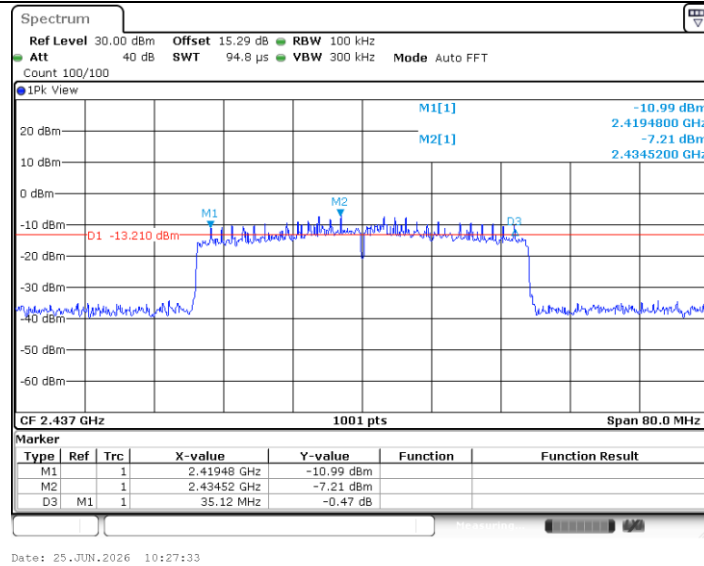
Tel.: (86)755-27521059

Fax: (86)755-27521011

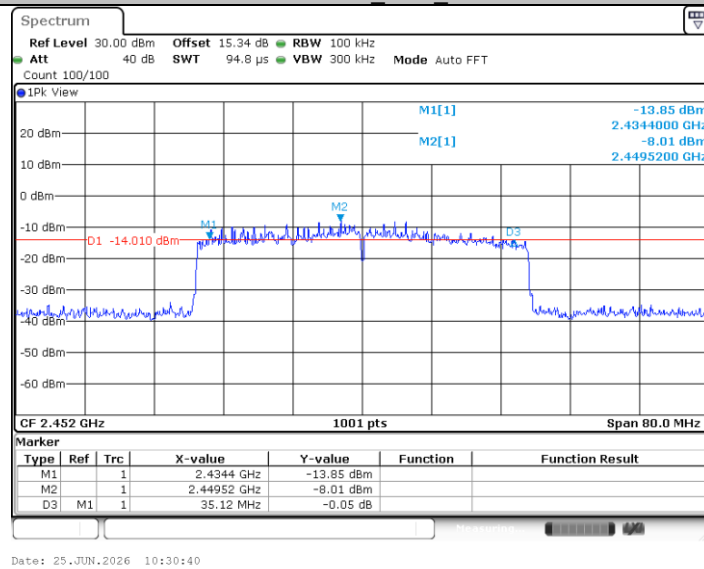
Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057\_A5

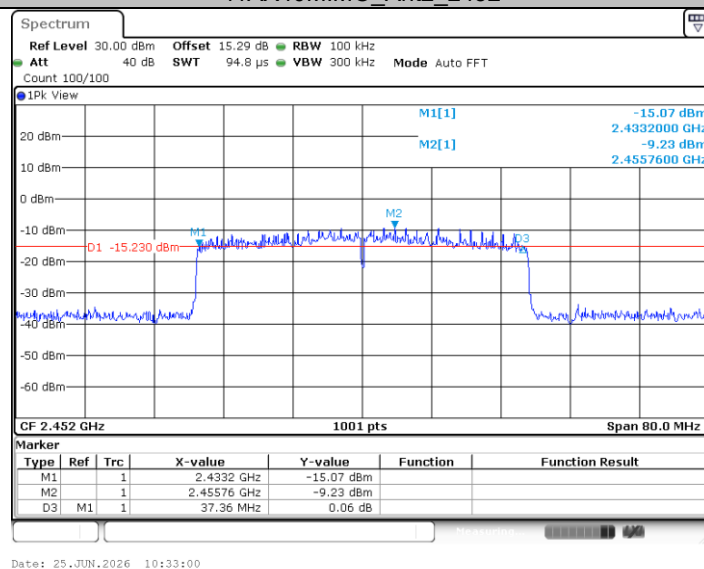
Master TRF:Dated 2026-06-01



## 11AX40MIMO\_Ant1\_2452



## 11AX40MIMO\_Ant2\_2452



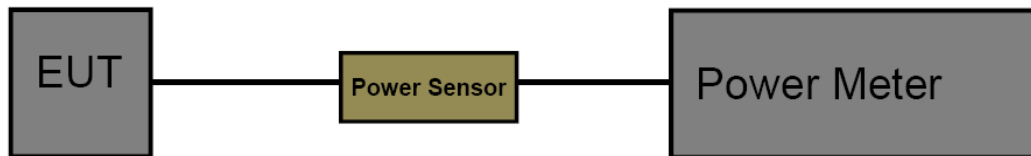
### 3.6. Peak Output Power

#### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

| Section                         | Test Item                      | Limit           | Frequency Range (MHz) |
|---------------------------------|--------------------------------|-----------------|-----------------------|
| FCC CFR 47<br>Part15.247 (b)(3) | Maximum Conducted Output Power | 1 Watt or 30dBm | 2400~2483.5           |

#### Test Configuration



#### Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

#### Test Mode

Please refer to the clause 2.4.

**Test Result**

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|--------------|-------------|---------|
| 11B        | Ant1    | 2412           | <b>17.85</b> | ≤29.3       | PASS    |
|            | Ant2    | 2412           | 17.65        | ≤29.3       | PASS    |
|            | Ant1    | 2437           | 17.67        | ≤29.3       | PASS    |
|            | Ant2    | 2437           | 17.40        | ≤29.3       | PASS    |
|            | Ant1    | 2462           | 17.66        | ≤29.3       | PASS    |
|            | Ant2    | 2462           | 17.08        | ≤29.3       | PASS    |
| 11G        | Ant1    | 2412           | 17.23        | ≤29.3       | PASS    |
|            | Ant2    | 2412           | 17.30        | ≤29.3       | PASS    |
|            | Ant1    | 2437           | 17.50        | ≤29.3       | PASS    |
|            | Ant2    | 2437           | 17.56        | ≤29.3       | PASS    |
|            | Ant1    | 2462           | 17.11        | ≤29.3       | PASS    |
|            | Ant2    | 2462           | 17.58        | ≤29.3       | PASS    |
| 11N20MIMO  | Ant1    | 2412           | 14.85        | /           | PASS    |
|            | Ant2    | 2412           | 14.60        | /           | PASS    |
|            | total   | 2412           | 17.74        | ≤26.29      | PASS    |
|            | Ant1    | 2437           | 15.01        | /           | PASS    |
|            | Ant2    | 2437           | 14.35        | /           | PASS    |
|            | total   | 2437           | 17.70        | ≤26.29      | PASS    |
|            | Ant1    | 2462           | 14.46        | /           | PASS    |
|            | Ant2    | 2462           | 14.72        | /           | PASS    |
| 11N40MIMO  | total   | 2462           | 17.60        | ≤26.29      | PASS    |
|            | Ant1    | 2422           | 14.41        | /           | PASS    |
|            | Ant2    | 2422           | 13.60        | /           | PASS    |
|            | total   | 2422           | 17.03        | ≤26.29      | PASS    |
|            | Ant1    | 2437           | 14.51        | /           | PASS    |
|            | Ant2    | 2437           | 14.11        | /           | PASS    |
|            | total   | 2437           | 17.32        | ≤26.29      | PASS    |
|            | Ant1    | 2452           | 13.70        | /           | PASS    |
| 11AX20MIMO | Ant2    | 2452           | 14.26        | /           | PASS    |
|            | total   | 2452           | 17.00        | ≤26.29      | PASS    |
|            | Ant1    | 2412           | 14.61        | /           | PASS    |
|            | Ant2    | 2412           | 14.28        | /           | PASS    |
|            | total   | 2412           | 17.46        | ≤26.29      | PASS    |
|            | Ant1    | 2437           | 14.56        | /           | PASS    |
|            | Ant2    | 2437           | 14.15        | /           | PASS    |
|            | total   | 2437           | 17.37        | ≤26.29      | PASS    |
| 11AX40MIMO | Ant1    | 2462           | 14.77        | /           | PASS    |
|            | Ant2    | 2462           | 14.20        | /           | PASS    |
|            | total   | 2462           | 17.50        | ≤26.29      | PASS    |
|            | Ant1    | 2422           | 14.47        | /           | PASS    |
|            | Ant2    | 2422           | 14.01        | /           | PASS    |
|            | total   | 2422           | 17.26        | ≤26.29      | PASS    |
|            | Ant1    | 2437           | 14.66        | /           | PASS    |
|            | Ant2    | 2437           | 14.40        | /           | PASS    |
| 11AX40MIMO | total   | 2437           | 17.54        | ≤26.29      | PASS    |
|            | Ant1    | 2452           | 13.88        | /           | PASS    |
|            | Ant2    | 2452           | 14.17        | /           | PASS    |
|            | total   | 2452           | 17.04        | ≤26.29      | PASS    |

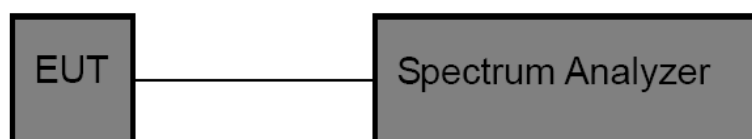
### 3.7. Power Spectral Density

#### Limit

#### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

| Test Item              | Limit                | Frequency Range (MHz) |
|------------------------|----------------------|-----------------------|
| Power Spectral Density | 8 dBm (in any 3 kHz) | 2400~2483.5           |

#### Test Configuration



#### Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:  
Set analyzer center frequency to DTS channel center frequency.  
Set the span to 1.5 times the DTS bandwidth.  
Set the RBW to: 3 kHz.  
Set the VBW to: 10 kHz.  
Detector: peak.  
Sweep time: auto.  
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

#### Test Mode

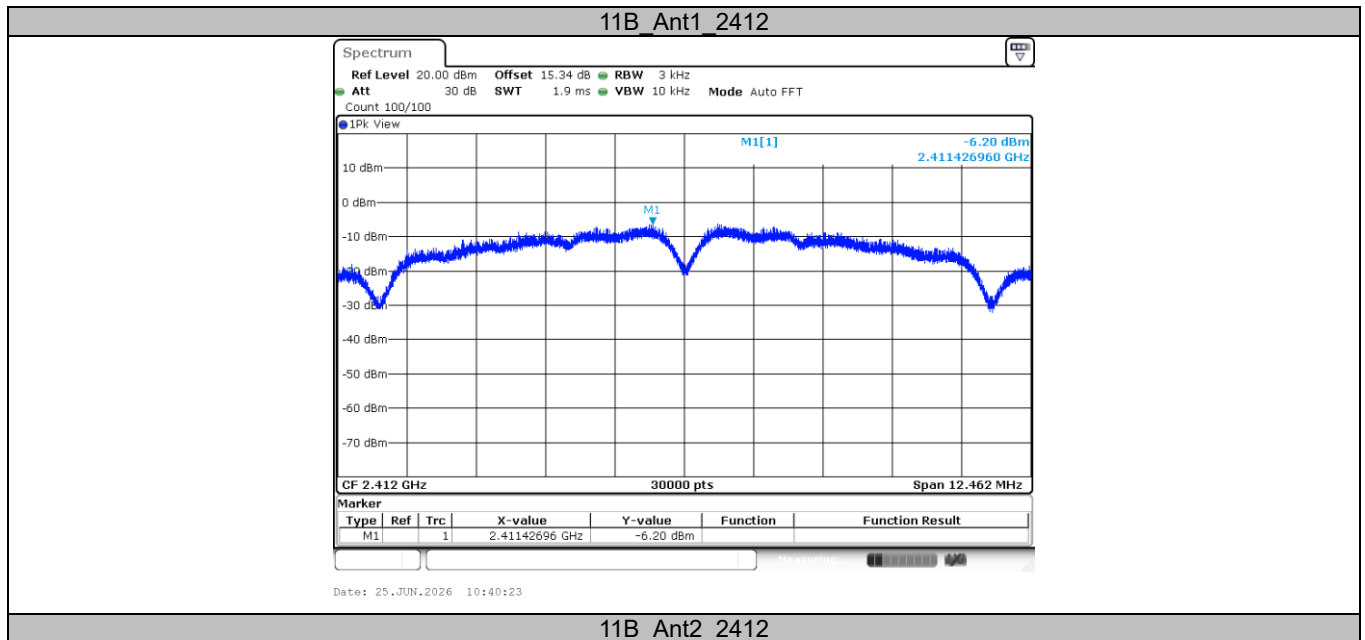
Please refer to the clause 2.4.

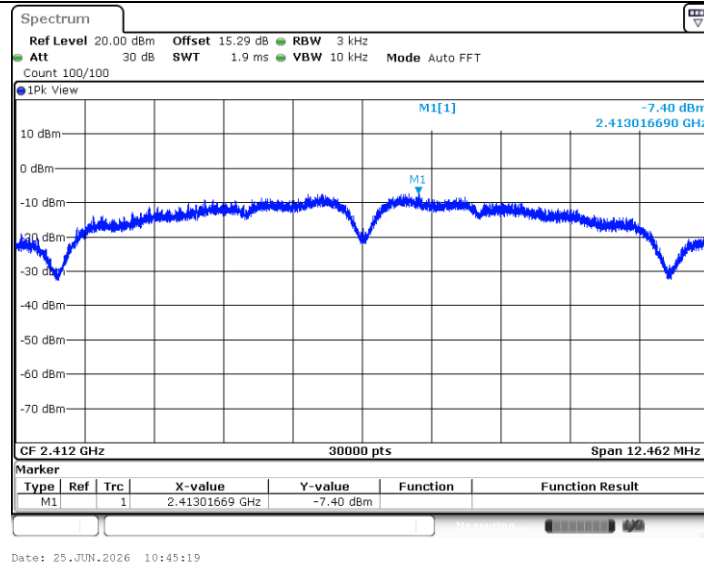
#### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -6.20                | ≤7.30           | PASS    |
|           | Ant2    | 2412           | -7.40                | ≤7.30           | PASS    |
|           | Ant1    | 2437           | -5.99                | ≤7.30           | PASS    |
|           | Ant2    | 2437           | -7.10                | ≤7.30           | PASS    |
|           | Ant1    | 2462           | -5.61                | ≤7.30           | PASS    |
|           | Ant2    | 2462           | -6.86                | ≤7.30           | PASS    |
| 11G       | Ant1    | 2412           | -13.37               | ≤7.30           | PASS    |
|           | Ant2    | 2412           | -13.46               | ≤7.30           | PASS    |
|           | Ant1    | 2437           | -13.10               | ≤7.30           | PASS    |
|           | Ant2    | 2437           | -13.35               | ≤7.30           | PASS    |
|           | Ant1    | 2462           | -13.62               | ≤7.30           | PASS    |
|           | Ant2    | 2462           | -13.17               | ≤7.30           | PASS    |
| 11N20MIMO | Ant1    | 2412           | -15.46               | /               | PASS    |
|           | Ant2    | 2412           | -16.82               | /               | PASS    |
|           | total   | 2412           | -13.08               | ≤4.29           | PASS    |

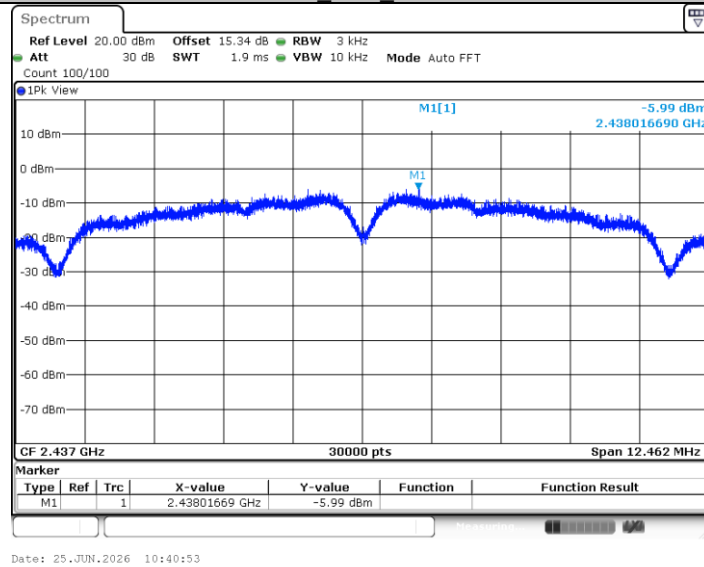
|            |       |      |        |       |      |
|------------|-------|------|--------|-------|------|
|            | Ant1  | 2437 | -16.50 | /     | PASS |
|            | Ant2  | 2437 | -16.90 | /     | PASS |
|            | total | 2437 | -13.69 | ≤4.29 | PASS |
|            | Ant1  | 2462 | -15.81 | /     | PASS |
|            | Ant2  | 2462 | -16.42 | /     | PASS |
|            | total | 2462 | -13.09 | ≤4.29 | PASS |
| 11N40MIMO  | Ant1  | 2422 | -18.84 | /     | PASS |
|            | Ant2  | 2422 | -19.58 | /     | PASS |
|            | total | 2422 | -16.18 | ≤4.29 | PASS |
|            | Ant1  | 2437 | -18.56 | /     | PASS |
|            | Ant2  | 2437 | -19.34 | /     | PASS |
|            | total | 2437 | -15.92 | ≤4.29 | PASS |
|            | Ant1  | 2452 | -20.04 | /     | PASS |
|            | Ant2  | 2452 | -20.06 | /     | PASS |
|            | total | 2452 | -17.04 | ≤4.29 | PASS |
| 11AX20MIMO | Ant1  | 2412 | -18.32 | /     | PASS |
|            | Ant2  | 2412 | -18.63 | /     | PASS |
|            | total | 2412 | -15.46 | ≤4.29 | PASS |
|            | Ant1  | 2437 | -18.34 | /     | PASS |
|            | Ant2  | 2437 | -18.15 | /     | PASS |
|            | total | 2437 | -15.23 | ≤4.29 | PASS |
|            | Ant1  | 2462 | -18.36 | /     | PASS |
|            | Ant2  | 2462 | -18.61 | /     | PASS |
|            | total | 2462 | -15.47 | ≤4.29 | PASS |
| 11AX40MIMO | Ant1  | 2422 | -21.68 | /     | PASS |
|            | Ant2  | 2422 | -21.26 | /     | PASS |
|            | total | 2422 | -18.45 | ≤4.29 | PASS |
|            | Ant1  | 2437 | -20.53 | /     | PASS |
|            | Ant2  | 2437 | -21.64 | /     | PASS |
|            | total | 2437 | -18.04 | ≤4.29 | PASS |
|            | Ant1  | 2452 | -22.08 | /     | PASS |
|            | Ant2  | 2452 | -21.81 | /     | PASS |
|            | total | 2452 | -18.93 | ≤4.29 | PASS |

## Test Graphs:

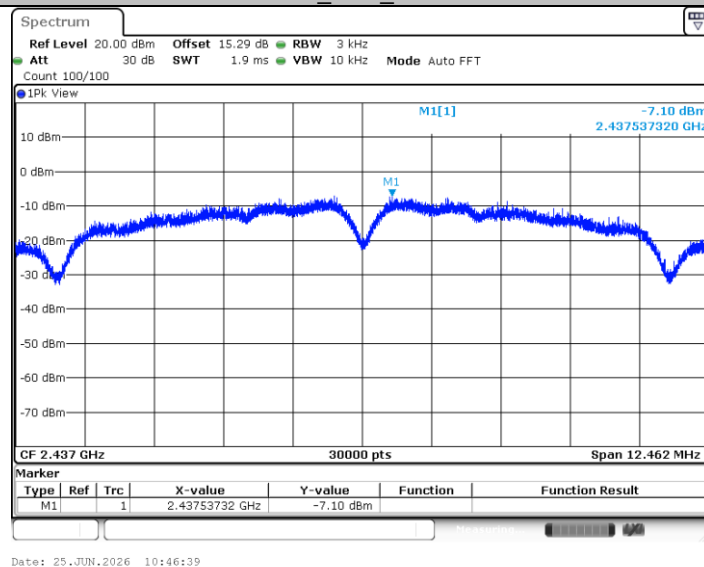




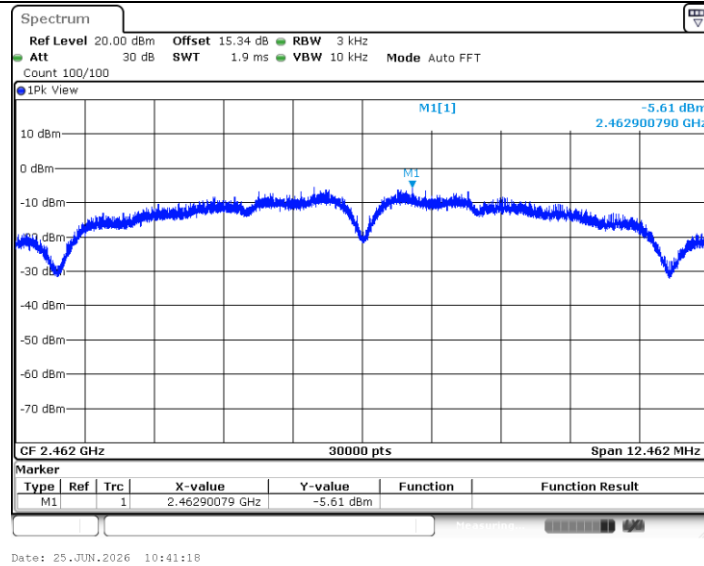
11B\_Ant1\_2437



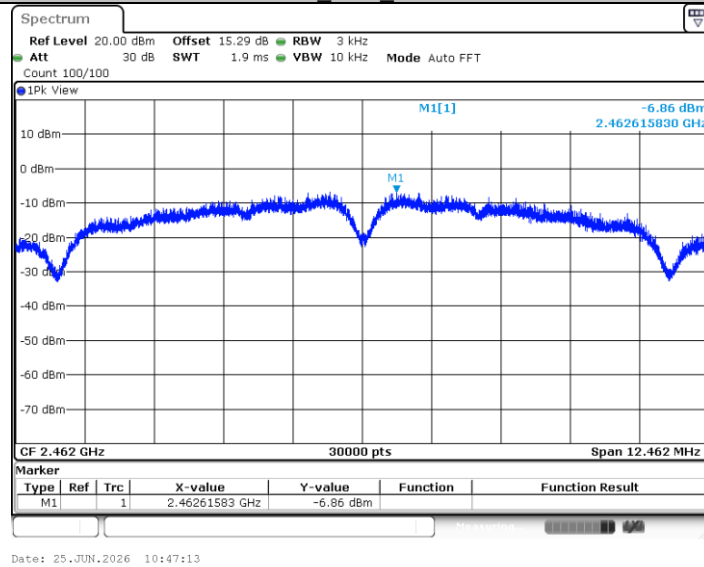
11B\_Ant2\_2437



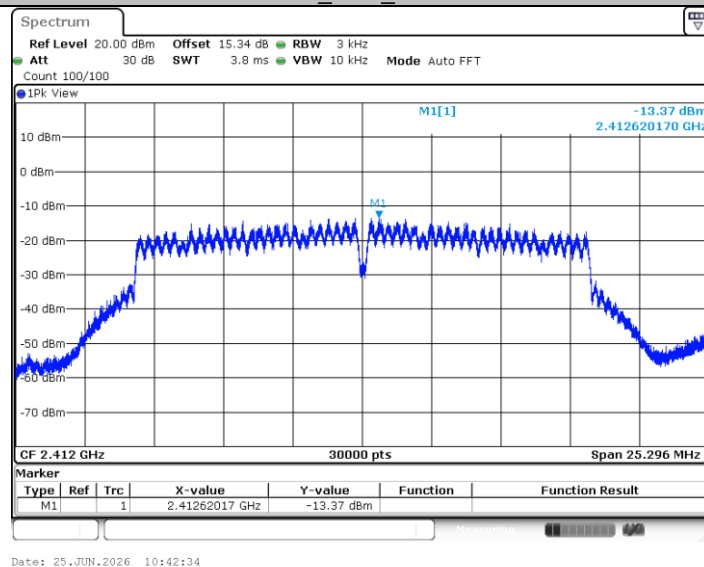
11B\_Ant1\_2462



11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412