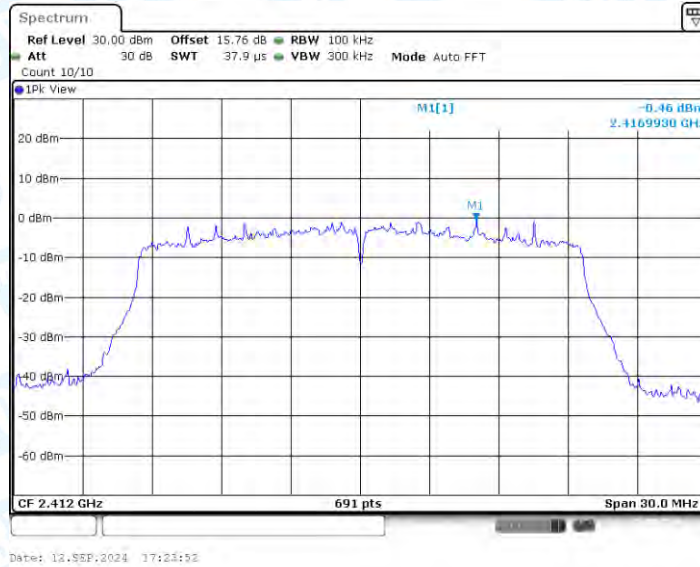
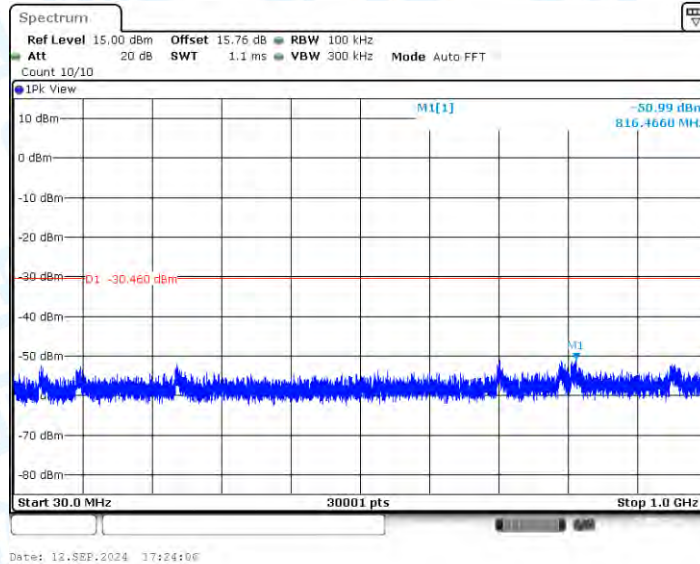
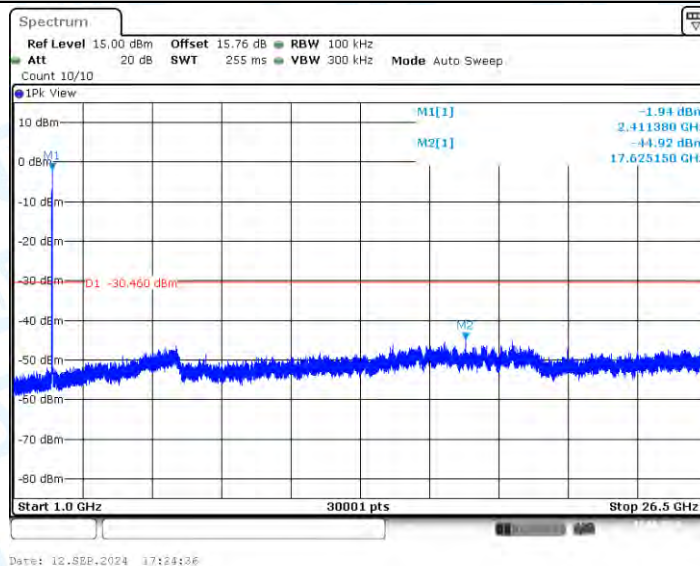




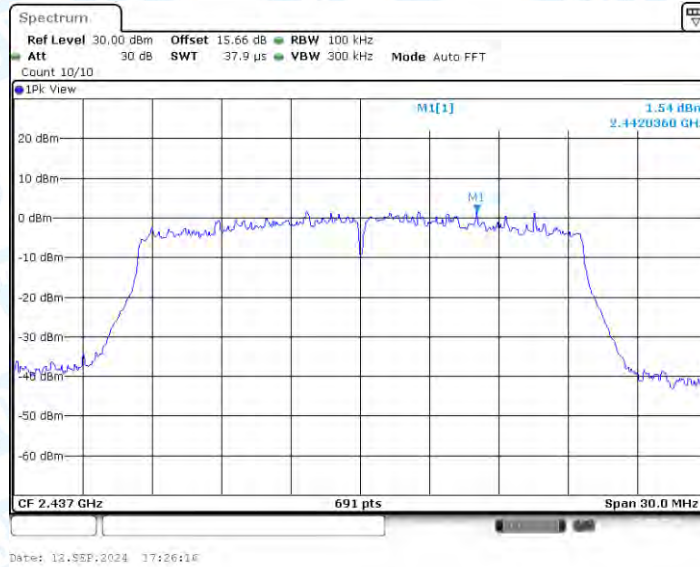
11AX20MIMO\_Ant2\_2412\_30~1000



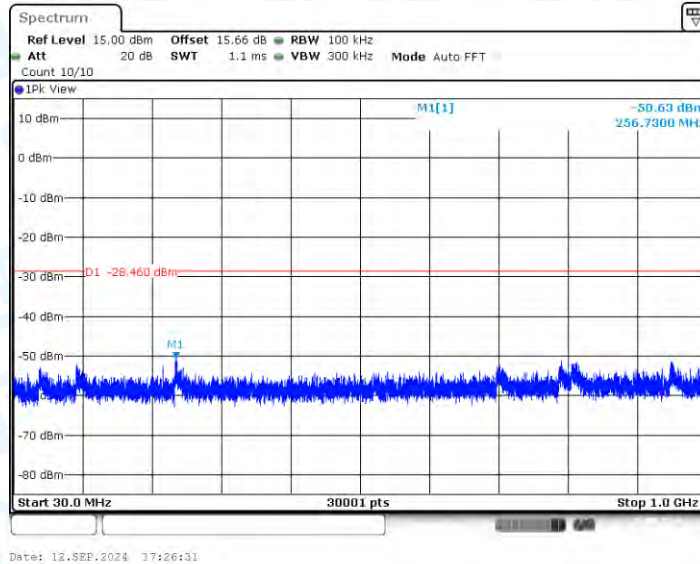
11AX20MIMO\_Ant2\_2412\_1000~26500



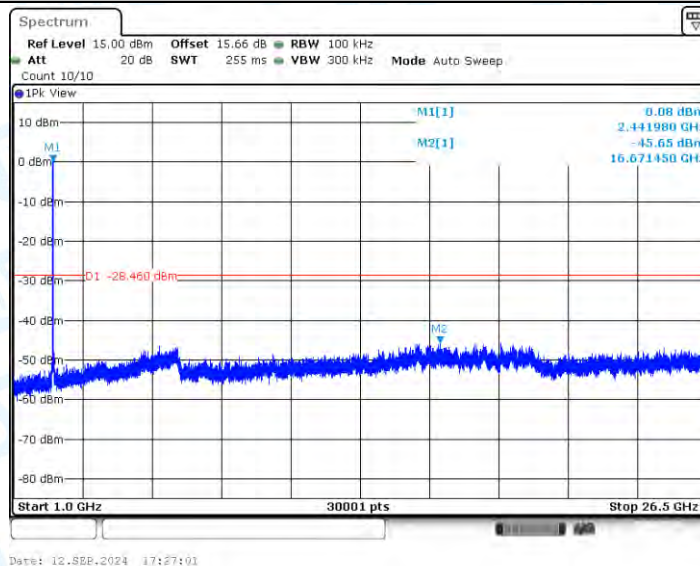
11AX20MIMO\_Ant1\_2437\_0~Reference



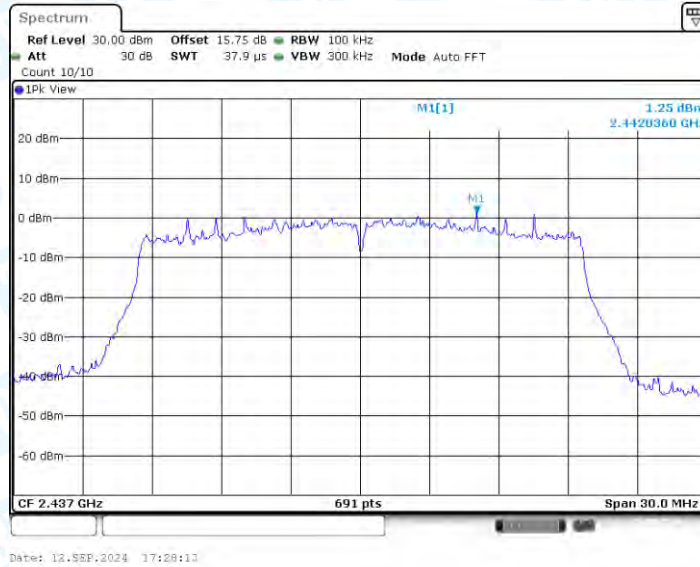
11AX20MIMO\_Ant1\_2437\_30~1000



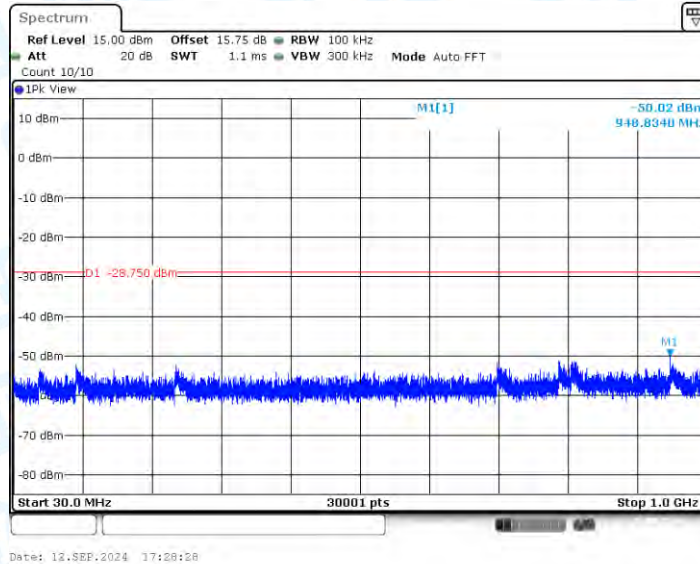
11AX20MIMO\_Ant1\_2437\_1000~26500



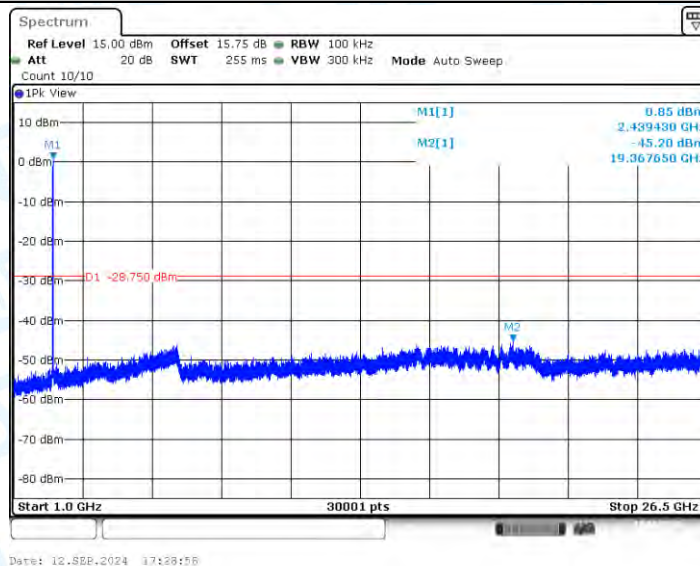
11AX20MIMO\_Ant2\_2437\_0~Reference



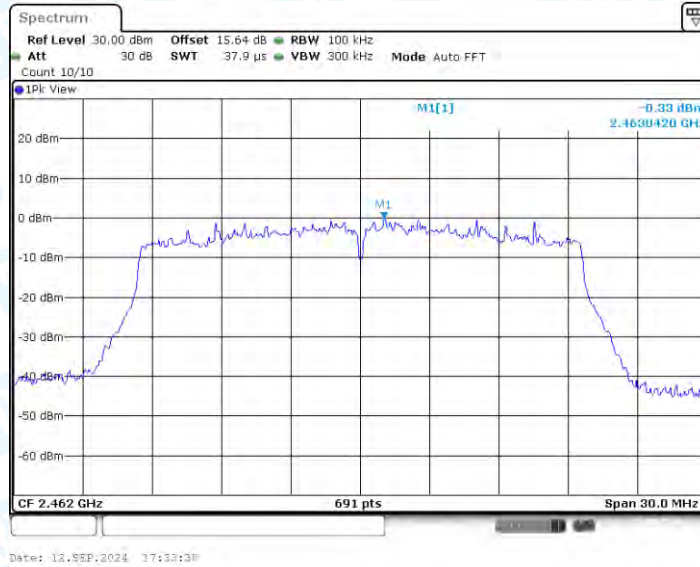
11AX20MIMO\_Ant2\_2437\_30~1000



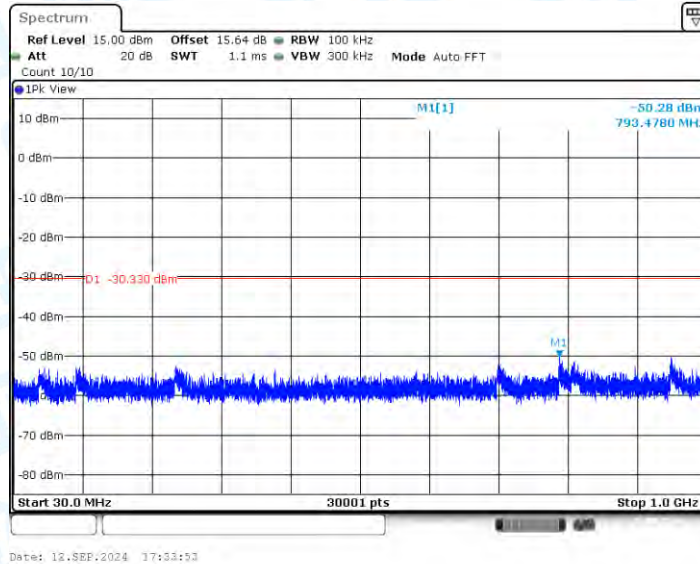
11AX20MIMO\_Ant2\_2437\_1000~26500



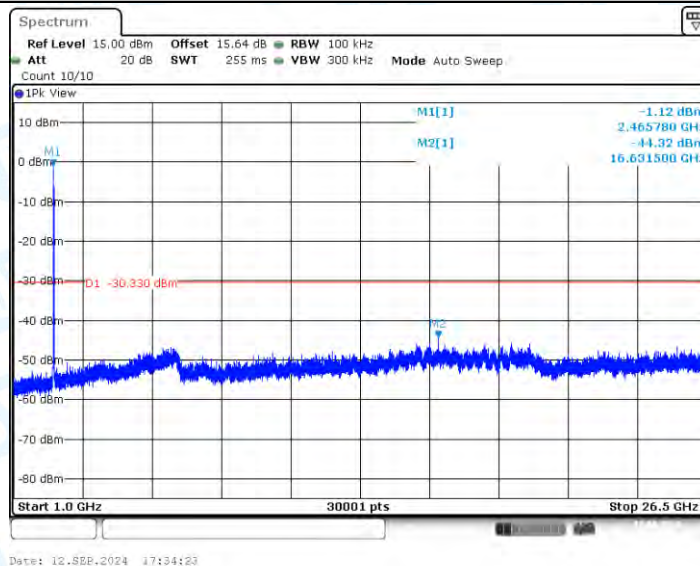
11AX20MIMO\_Ant1\_2462\_0~Reference



11AX20MIMO\_Ant1\_2462\_30~1000



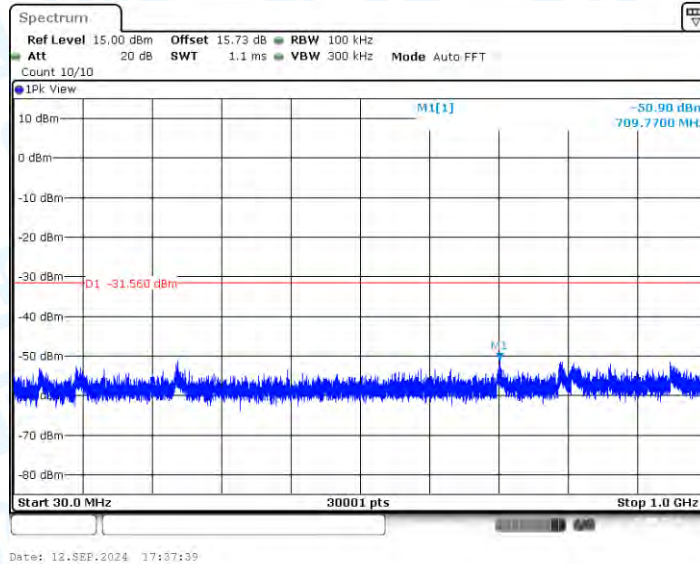
11AX20MIMO\_Ant1\_2462\_1000~26500



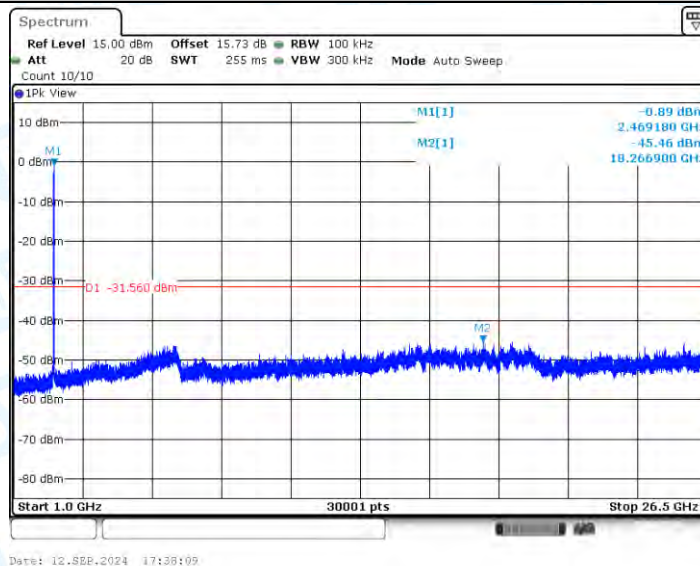
11AX20MIMO\_Ant2\_2462\_0~Reference



11AX20MIMO\_Ant2\_2462\_30~1000



11AX20MIMO\_Ant2\_2462\_1000~26500



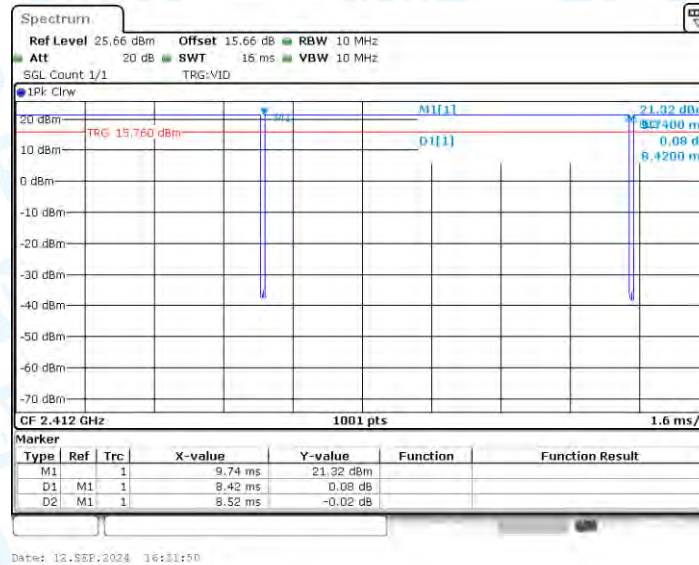
## 7. Duty Cycle

### 7.1. Test Result

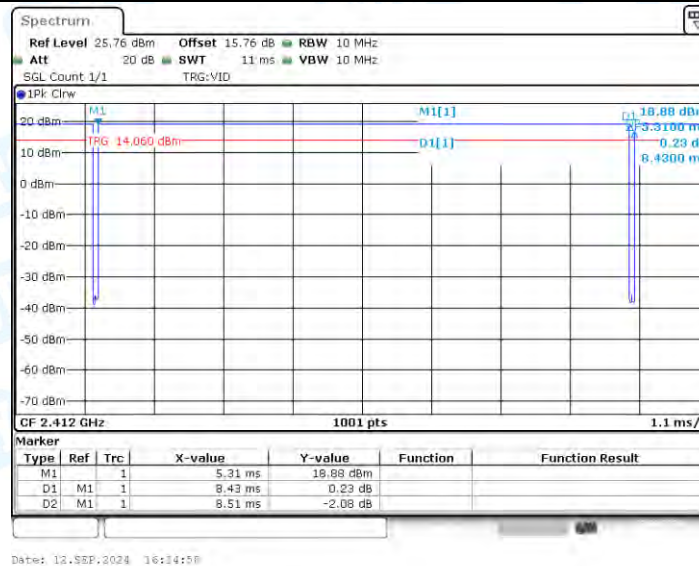
| TestMode   | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|------------|---------|---------|----------------------------|--------------------------|----------------|-------|---------|
| 11B-CDD    | Ant1    | 2412    | 8.42                       | 8.52                     | 98.83          | ---   | ---     |
|            | Ant2    | 2412    | 8.43                       | 8.51                     | 99.06          | ---   | ---     |
|            | Ant1    | 2437    | 8.42                       | 8.51                     | 98.94          | ---   | ---     |
|            | Ant2    | 2437    | 8.43                       | 8.53                     | 98.83          | ---   | ---     |
|            | Ant1    | 2462    | 8.42                       | 8.51                     | 98.94          | ---   | ---     |
|            | Ant2    | 2462    | 8.44                       | 8.52                     | 99.06          | ---   | ---     |
| 11G-CDD    | Ant1    | 2412    | 1.39                       | 1.49                     | 93.29          | ---   | ---     |
|            | Ant2    | 2412    | 1.40                       | 1.50                     | 93.33          | ---   | ---     |
|            | Ant1    | 2437    | 1.39                       | 1.49                     | 93.29          | ---   | ---     |
|            | Ant2    | 2437    | 1.40                       | 1.50                     | 93.33          | ---   | ---     |
|            | Ant1    | 2462    | 1.39                       | 1.49                     | 93.29          | ---   | ---     |
|            | Ant2    | 2462    | 1.39                       | 1.49                     | 93.29          | ---   | ---     |
| 11N20MIMO  | Ant1    | 2412    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
|            | Ant2    | 2412    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
|            | Ant1    | 2437    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
|            | Ant2    | 2437    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
|            | Ant1    | 2462    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
|            | Ant2    | 2462    | 1.31                       | 1.41                     | 92.91          | ---   | ---     |
| 11AX20MIMO | Ant1    | 2412    | 1.02                       | 1.12                     | 91.07          | ---   | ---     |
|            | Ant2    | 2412    | 1.02                       | 1.12                     | 91.07          | ---   | ---     |
|            | Ant1    | 2437    | 1.02                       | 1.12                     | 91.07          | ---   | ---     |
|            | Ant2    | 2437    | 1.02                       | 1.13                     | 90.27          | ---   | ---     |
|            | Ant1    | 2462    | 1.02                       | 1.12                     | 91.07          | ---   | ---     |
|            | Ant2    | 2462    | 1.02                       | 1.12                     | 91.07          | ---   | ---     |

## 7.2.Test Graphs

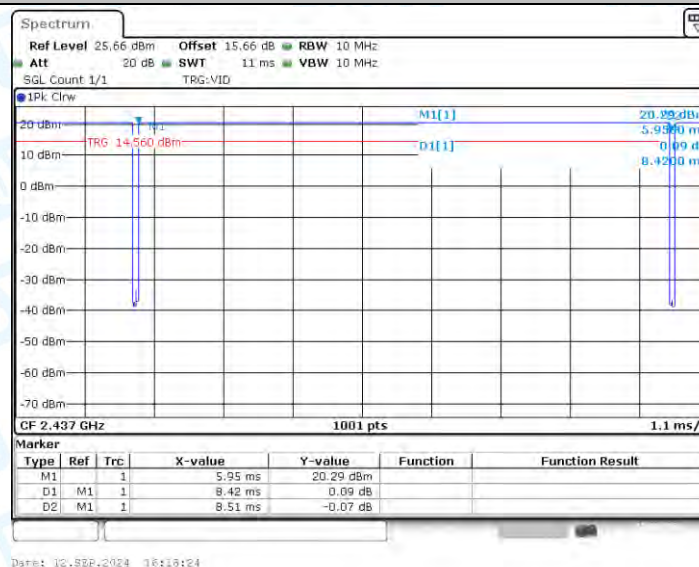
11B-CDD\_Ant1\_2412



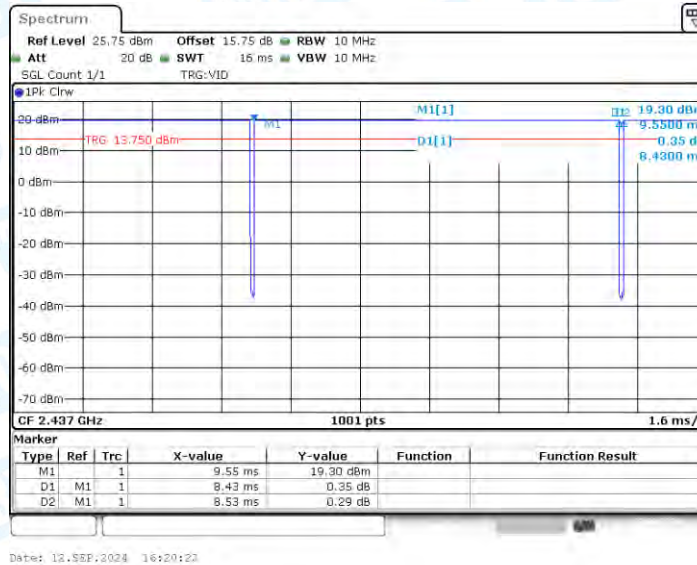
11B-CDD\_Ant2\_2412



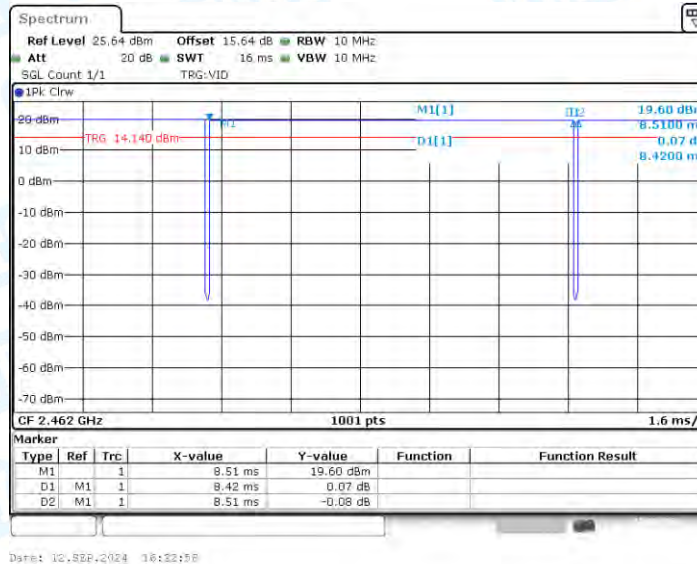
11B-CDD\_Ant1\_2437



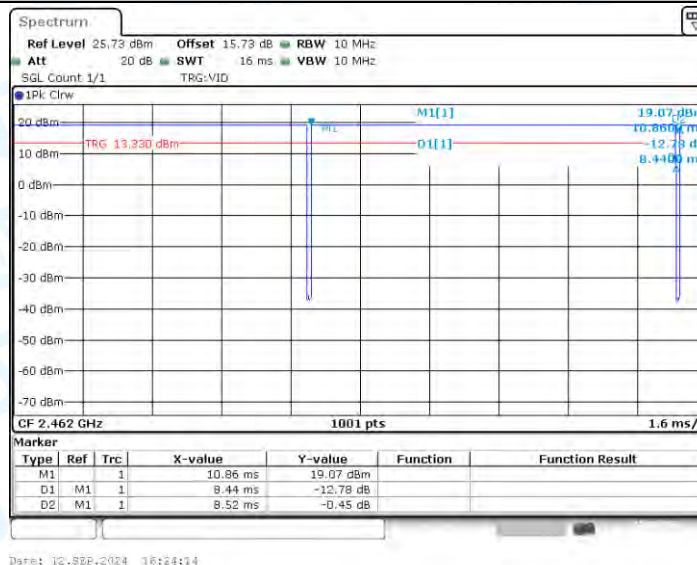
### 11B-CDD\_Ant2\_2437



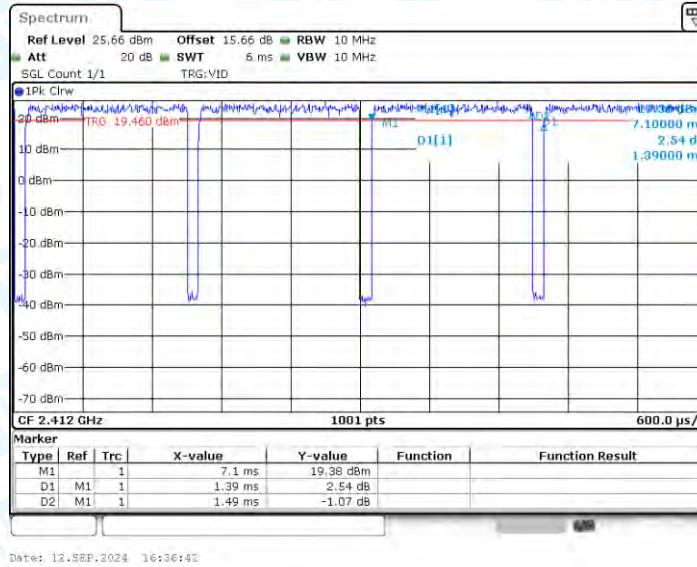
### 11B-CDD\_Ant1\_2462



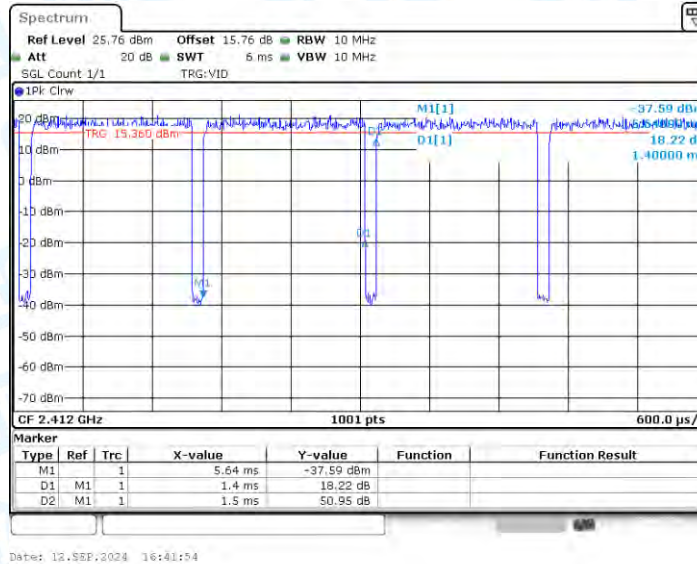
### 11B-CDD\_Ant2\_2462



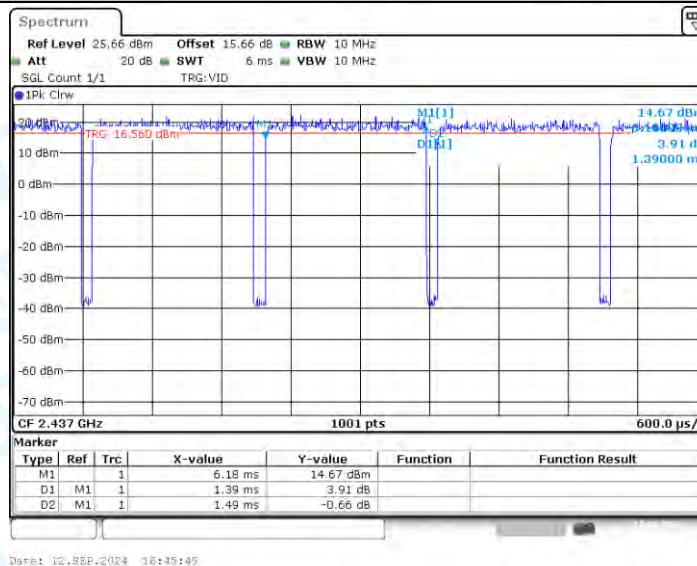
### 11G-CDD\_Ant1\_2412



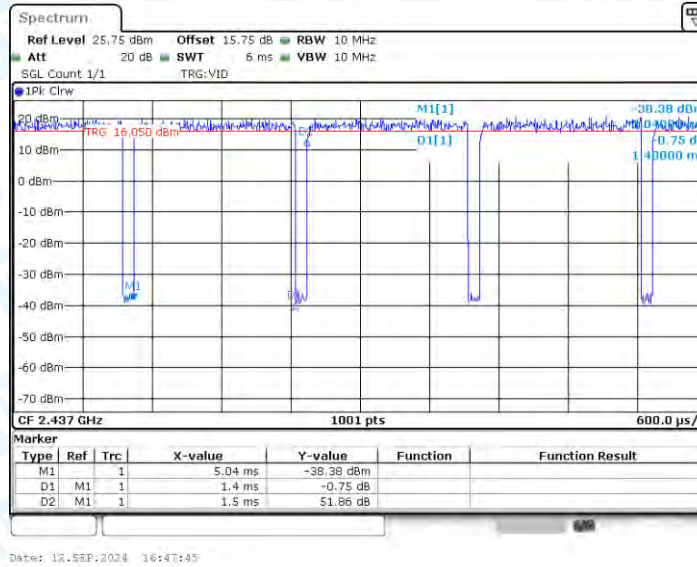
11G-CDD\_Ant2\_2412



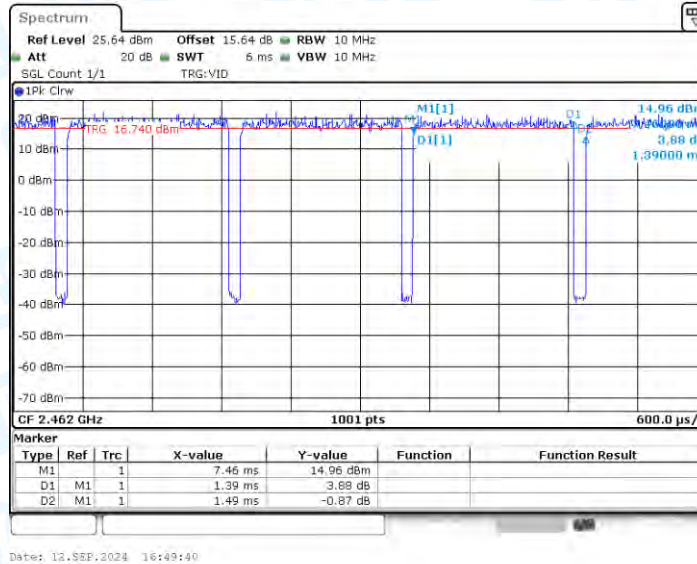
11G-CDD\_Ant1\_2437



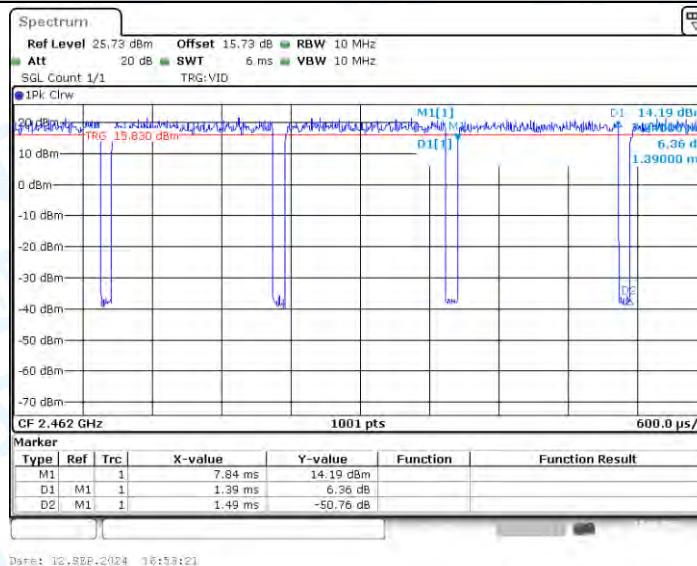
11G-CDD\_Ant2\_2437



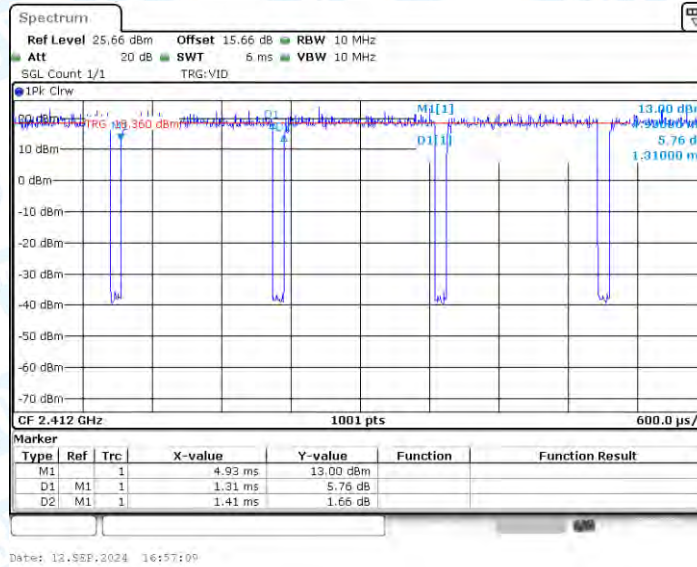
11G-CDD\_Ant1\_2462



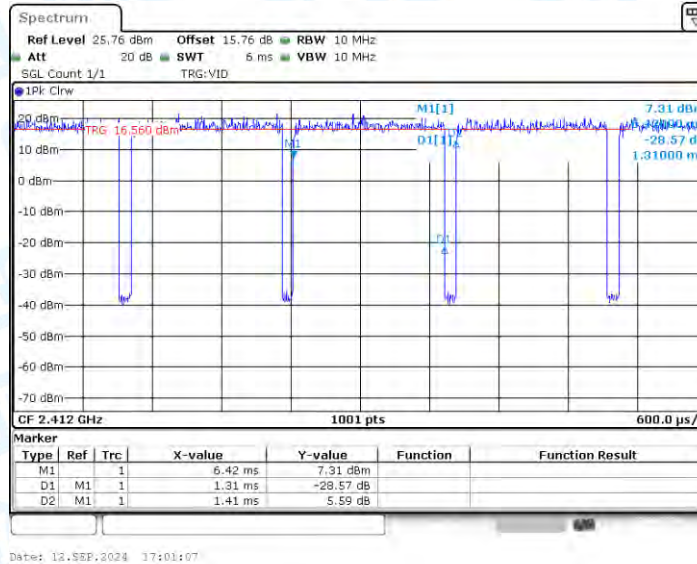
11G-CDD\_Ant2\_2462



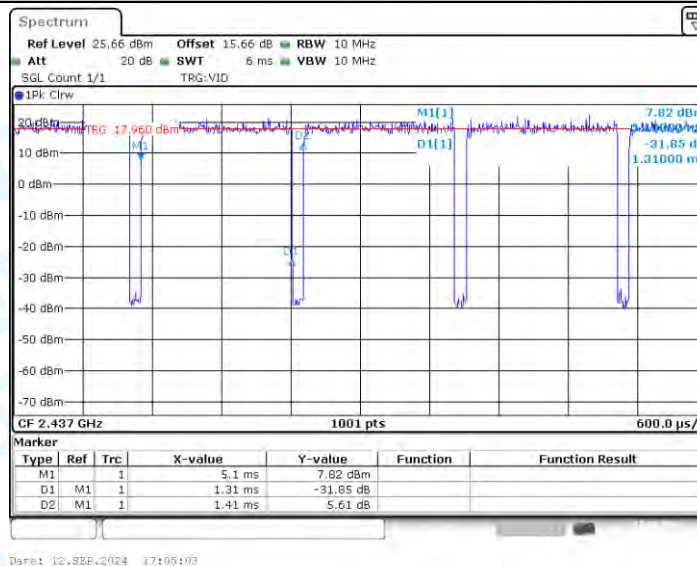
11N20MIMO\_Ant1\_2412



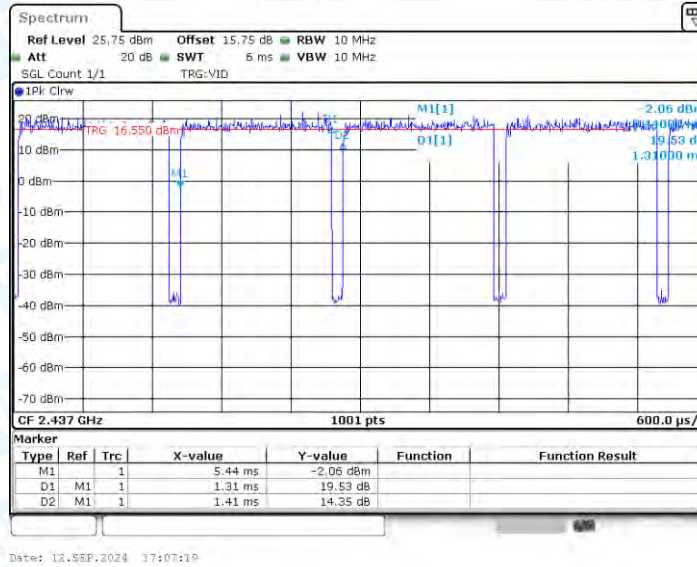
11N20MIMO\_Ant2\_2412



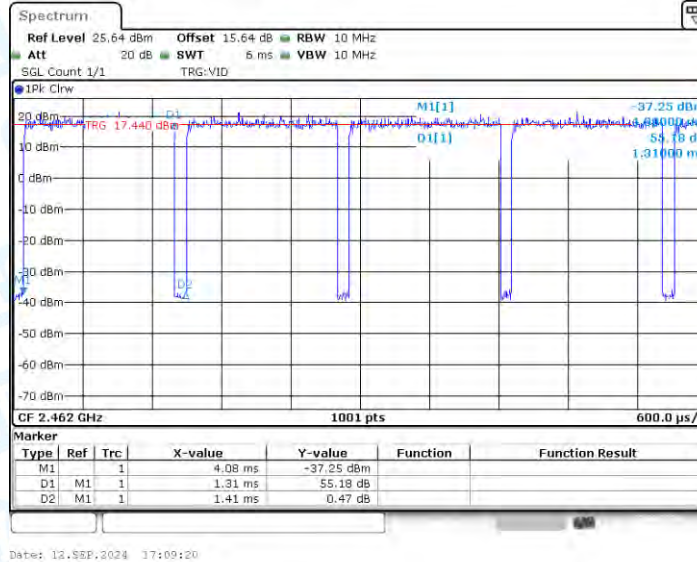
11N20MIMO\_Ant1\_2437



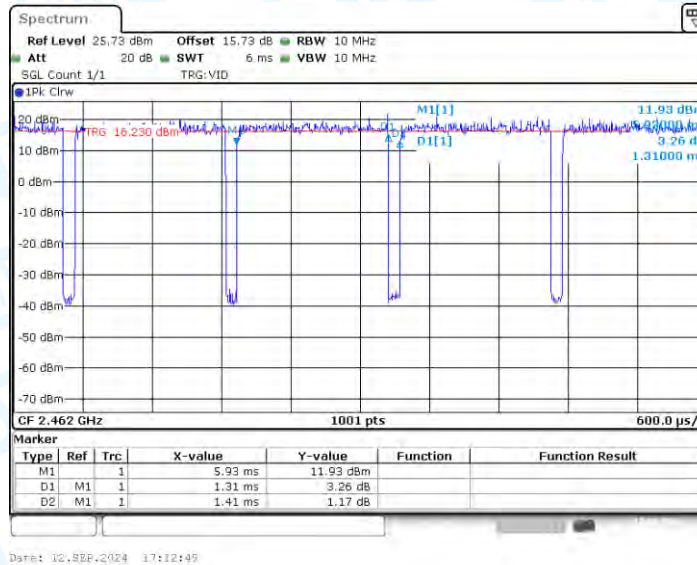
11N20MIMO\_Ant2\_2437



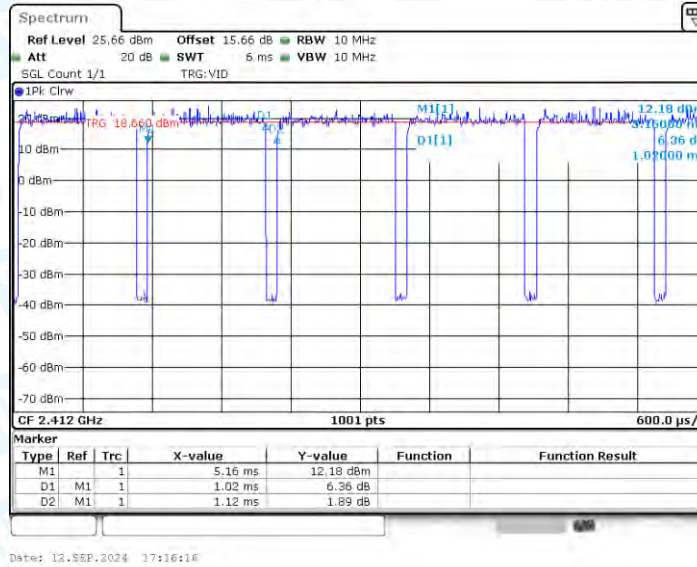
11N20MIMO\_Ant1\_2462



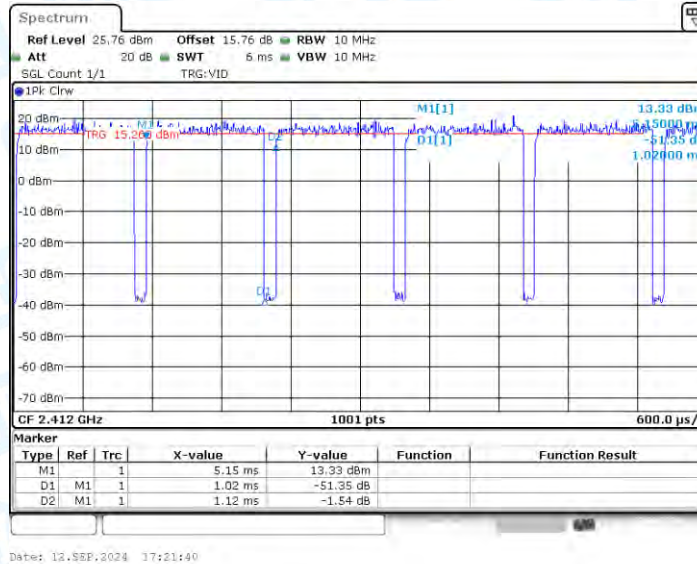
11N20MIMO\_Ant2\_2462



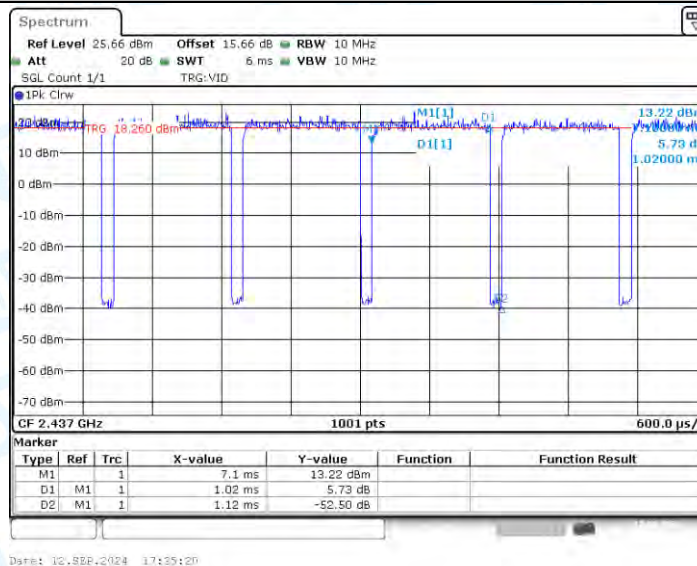
11AX20MIMO\_Ant1\_2412



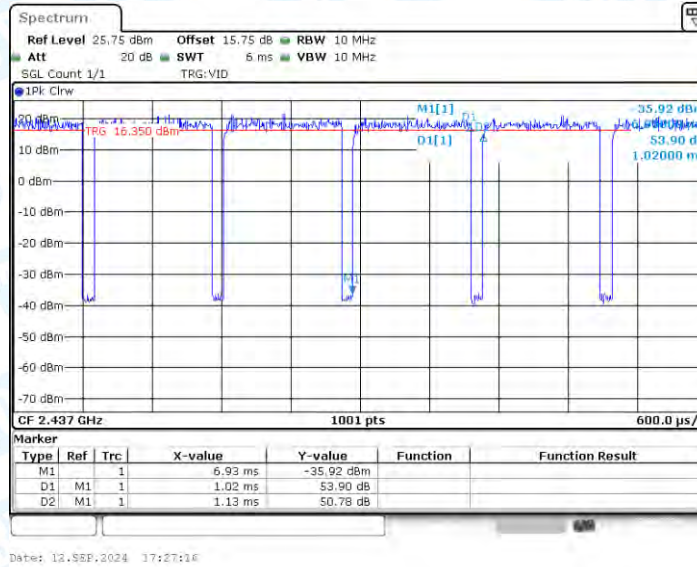
11AX20MIMO\_Ant2\_2412



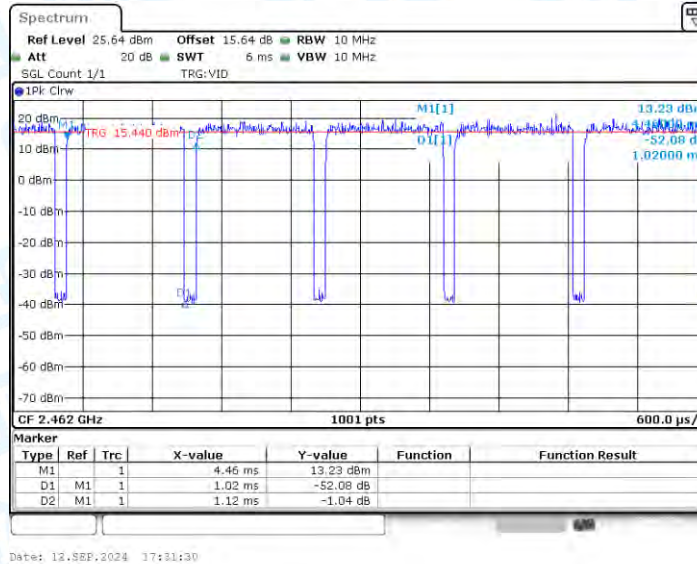
11AX20MIMO\_Ant1\_2437



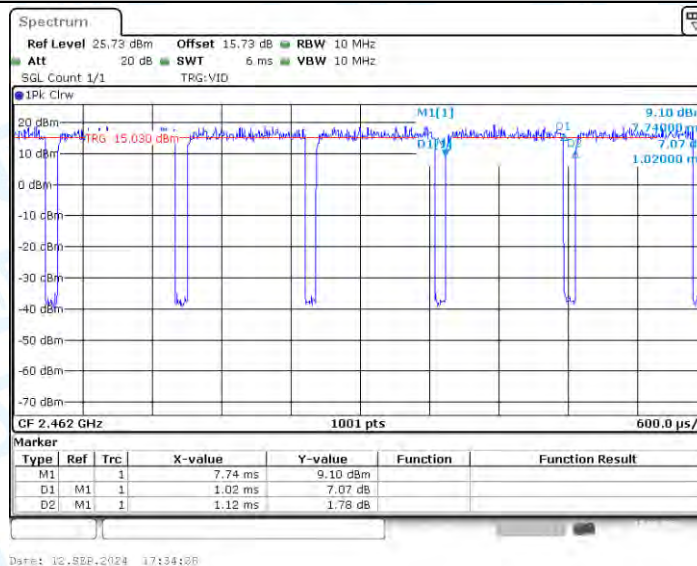
11AX20MIMO\_Ant2\_2437



11AX20MIMO\_Ant1\_2462



11AX20MIMO\_Ant2\_2462



## 8. Emissions in Restricted Bands

### 8.1. Test Result

| TestMode | Antenna | ChName | Channel | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|----------|---------|--------|---------|----------|------------|--------------|-------------|---------|
| 11B-CDD  | Ant1    | Low    | 2412    | AV       | 2310.000   | -52.04       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2389.493   | -46.41       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2390.000   | -47.09       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2310.000   | -44.45       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2389.493   | -36.8        | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2390.000   | -37.45       | ≤-21.20     | PASS    |
|          | Ant2    | Low    | 2412    | AV       | 2310.000   | -52.1        | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2387.420   | -48.61       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2390.000   | -50.21       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2310.000   | -42.88       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2388.174   | -39.81       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2390.000   | -40.47       | ≤-21.20     | PASS    |
|          | total   | Low    | 2412    | AV       | 2310.000   | -49.06       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2387.420   | -44.36       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2390.000   | -45.37       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2310.000   | -40.58       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2388.174   | -35.04       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2390.000   | -35.69       | ≤-21.20     | PASS    |
|          | Ant1    | High   | 2462    | AV       | 2483.500   | -49.01       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2491.493   | -48.85       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2500.000   | -49.94       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2483.500   | -40.17       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2491.652   | -39.41       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2500.000   | -41          | ≤-21.20     | PASS    |
|          | Ant2    | High   | 2462    | AV       | 2483.500   | -49.24       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2488.145   | -48.99       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2500.000   | -50.3        | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2483.500   | -40.9        | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2498.029   | -39.49       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2500.000   | -42.32       | ≤-21.20     | PASS    |
|          | total   | High   | 2462    | AV       | 2483.500   | -46.11       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2488.145   | -45.91       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2500.000   | -47.11       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2483.500   | -37.51       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2498.029   | -36.44       | ≤-21.20     | PASS    |
|          |         |        |         | Peak     | 2500.000   | -38.60       | ≤-21.20     | PASS    |
| 11G-CDD  | Ant1    | Low    | 2412    | AV       | 2310.000   | -52.77       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2389.304   | -45.06       | ≤-41.20     | PASS    |
|          |         |        |         | AV       | 2390.000   | -45.23       | ≤-41.20     | PASS    |
|          |         |        |         | Peak     | 2310.000   | -43.64       | ≤-21.20     | PASS    |

|               |       |      |      |      |          |        |         |      |
|---------------|-------|------|------|------|----------|--------|---------|------|
| 11N20MIM<br>O |       |      |      | Peak | 2382.145 | -28.25 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2390.000 | -28.73 | ≤-21.20 | PASS |
|               | Ant2  | Low  | 2412 | AV   | 2310.000 | -52.14 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2389.304 | -47.57 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2390.000 | -47.57 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2310.000 | -43.58 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2389.116 | -38.43 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2390.000 | -38    | ≤-21.20 | PASS |
|               | total | Low  | 2412 | AV   | 2310.000 | -49.43 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2389.304 | -43.13 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2390.000 | -43.23 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2310.000 | -40.60 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2389.116 | -27.85 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2390.000 | -28.24 | ≤-21.20 | PASS |
|               | Ant1  | High | 2462 | AV   | 2483.500 | -43.57 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2484.159 | -43    | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2500.000 | -48.86 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2483.500 | -24.59 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2483.522 | -24.59 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2500.000 | -32.33 | ≤-21.20 | PASS |
|               | Ant2  | High | 2462 | AV   | 2483.500 | -47.31 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2483.522 | -47.31 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2500.000 | -49.94 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2483.500 | -37.42 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2484.159 | -35.75 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2500.000 | -39.89 | ≤-21.20 | PASS |
|               | total | High | 2462 | AV   | 2483.500 | -42.04 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2483.522 | -41.63 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2500.000 | -46.36 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2483.500 | -24.37 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2484.159 | -24.27 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2500.000 | -31.63 | ≤-21.20 | PASS |
| 11N20MIM<br>O | Ant1  | Low  | 2412 | AV   | 2310.000 | -52.82 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2389.870 | -45.58 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2390.000 | -45.51 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2310.000 | -42.73 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2384.783 | -26.24 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2390.000 | -26.39 | ≤-21.20 | PASS |
|               | Ant2  | Low  | 2412 | AV   | 2310.000 | -52.07 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2389.870 | -46.42 | ≤-41.20 | PASS |
|               |       |      |      | AV   | 2390.000 | -46.35 | ≤-41.20 | PASS |
|               |       |      |      | Peak | 2310.000 | -43.55 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2389.493 | -32.27 | ≤-21.20 | PASS |
|               |       |      |      | Peak | 2390.000 | -32.66 | ≤-21.20 | PASS |
|               | total | Low  | 2412 | AV   | 2310.000 | -49.42 | ≤-41.20 | PASS |

|                |       |      |      |      |          |        |         |      |
|----------------|-------|------|------|------|----------|--------|---------|------|
| 11AX20MI<br>MO |       |      |      | AV   | 2389.870 | -42.97 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2390.000 | -42.90 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2310.000 | -40.11 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2389.493 | -25.27 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2390.000 | -25.47 | ≤-21.20 | PASS |
|                | Ant1  | High | 2462 | AV   | 2483.500 | -47.6  | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2483.522 | -47.6  | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2500.000 | -50.47 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2483.500 | -33.83 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2483.522 | -33.83 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2500.000 | -41.54 | ≤-21.20 | PASS |
|                | Ant2  | High | 2462 | AV   | 2483.500 | -48.06 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2484.159 | -47.99 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2500.000 | -50.75 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2483.500 | -35.92 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2484.159 | -35.58 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2500.000 | -40.31 | ≤-21.20 | PASS |
|                | total | High | 2462 | AV   | 2483.500 | -44.81 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2484.159 | -44.78 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2500.000 | -47.60 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2483.500 | -31.74 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2484.159 | -31.61 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2500.000 | -37.87 | ≤-21.20 | PASS |
| 11AX20MI<br>MO | Ant1  | Low  | 2412 | AV   | 2310.000 | -52.59 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2389.870 | -45.91 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2390.000 | -45.63 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2310.000 | -42.6  | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2389.870 | -30.54 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2390.000 | -30.56 | ≤-21.20 | PASS |
|                | Ant2  | Low  | 2412 | AV   | 2310.000 | -52.06 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2389.870 | -47.49 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2390.000 | -47.38 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2310.000 | -43.6  | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2389.870 | -36.48 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2390.000 | -36.97 | ≤-21.20 | PASS |
|                | total | Low  | 2412 | AV   | 2310.000 | -49.31 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2389.870 | -43.62 | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2390.000 | -43.41 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2310.000 | -40.06 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2389.870 | -29.55 | ≤-21.20 | PASS |
|                |       |      |      | Peak | 2390.000 | -29.67 | ≤-21.20 | PASS |
|                | Ant1  | High | 2462 | AV   | 2483.500 | -48.4  | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2483.522 | -48.4  | ≤-41.20 | PASS |
|                |       |      |      | AV   | 2500.000 | -50.81 | ≤-41.20 | PASS |
|                |       |      |      | Peak | 2483.500 | -38.41 | ≤-21.20 | PASS |

|  |       |      |      |      |          |        |         |      |
|--|-------|------|------|------|----------|--------|---------|------|
|  |       |      |      | Peak | 2483.681 | -38.31 | ≤-21.20 | PASS |
|  |       |      |      | Peak | 2500.000 | -42.93 | ≤-21.20 | PASS |
|  | Ant2  | High | 2462 | AV   | 2483.500 | -48.55 | ≤-41.20 | PASS |
|  |       |      |      | AV   | 2483.522 | -48.55 | ≤-41.20 | PASS |
|  |       |      |      | AV   | 2500.000 | -50.97 | ≤-41.20 | PASS |
|  |       |      |      | Peak | 2483.500 | -39.83 | ≤-21.20 | PASS |
|  |       |      |      | Peak | 2485.116 | -38.43 | ≤-21.20 | PASS |
|  |       |      |      | Peak | 2500.000 | -42.45 | ≤-21.20 | PASS |
|  | total | High | 2462 | AV   | 2483.500 | -45.46 | ≤-41.20 | PASS |
|  |       |      |      | AV   | 2483.522 | -45.46 | ≤-41.20 | PASS |
|  |       |      |      | AV   | 2500.000 | -47.88 | ≤-41.20 | PASS |
|  |       |      |      | Peak | 2483.500 | -36.05 | ≤-21.20 | PASS |
|  |       |      |      | Peak | 2485.116 | -35.36 | ≤-21.20 | PASS |
|  |       |      |      | Peak | 2500.000 | -39.67 | ≤-21.20 | PASS |

Note:

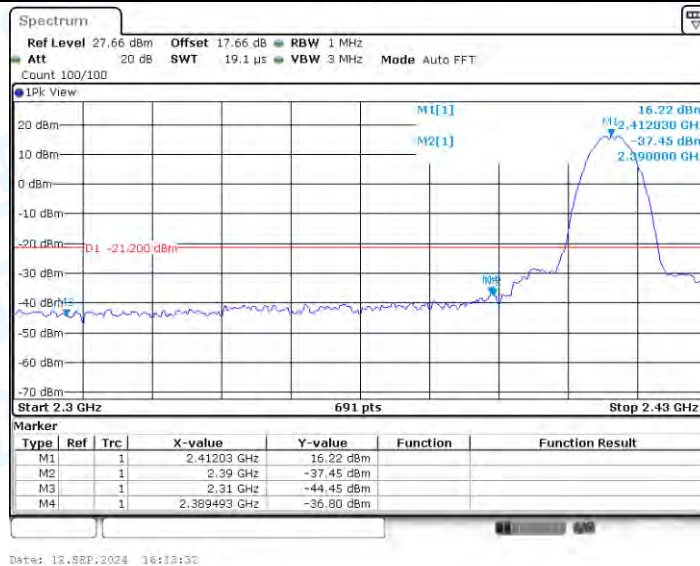
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## 8.2.Test Graphs

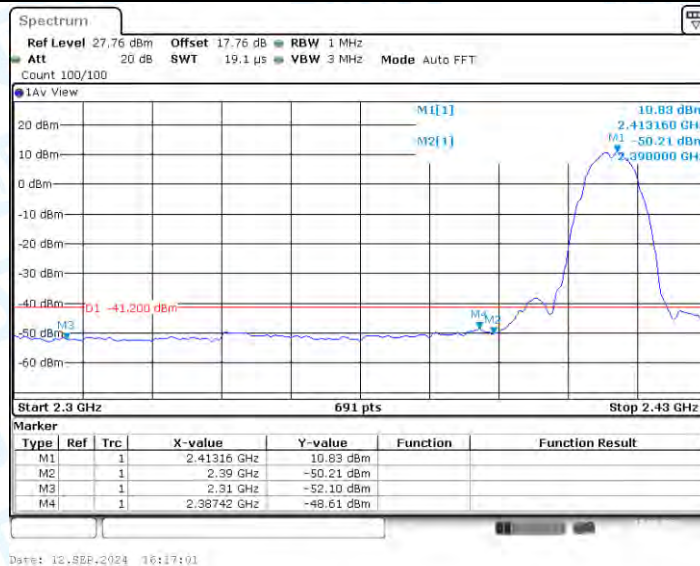
11B-CDD\_Ant1\_Low\_2412\_AV



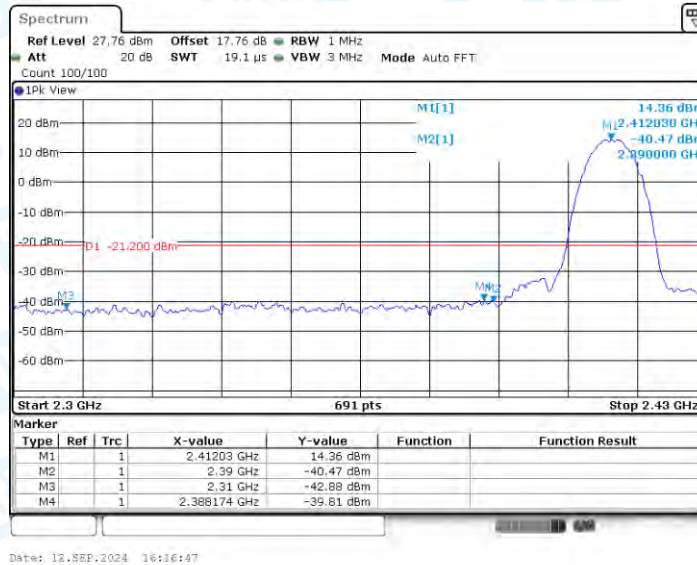
11B-CDD\_Ant1\_Low\_2412\_Peak



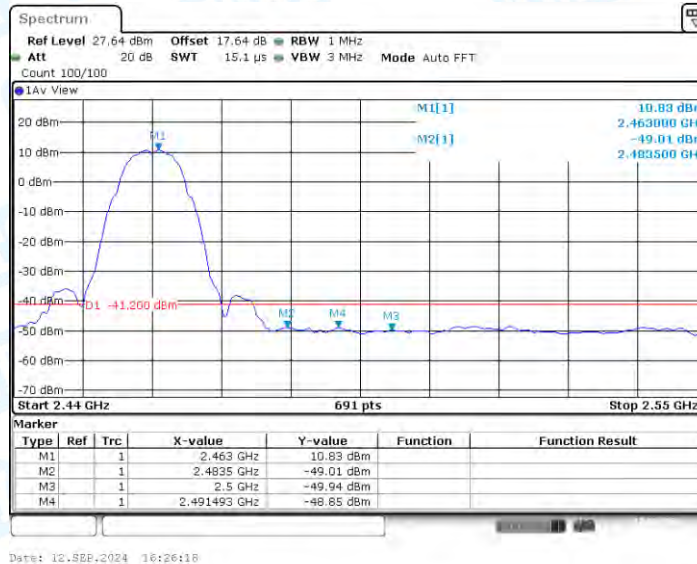
11B-CDD\_Ant2\_Low\_2412\_AV



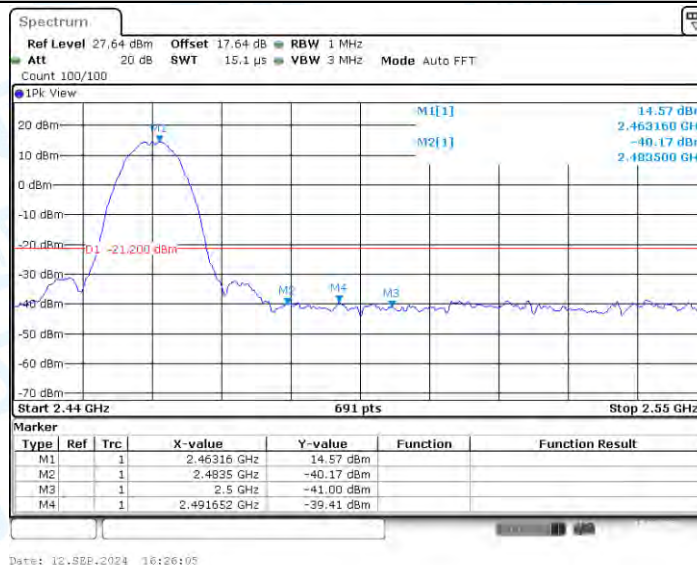
### 11B-CDD\_Ant2\_Low\_2412\_Peak



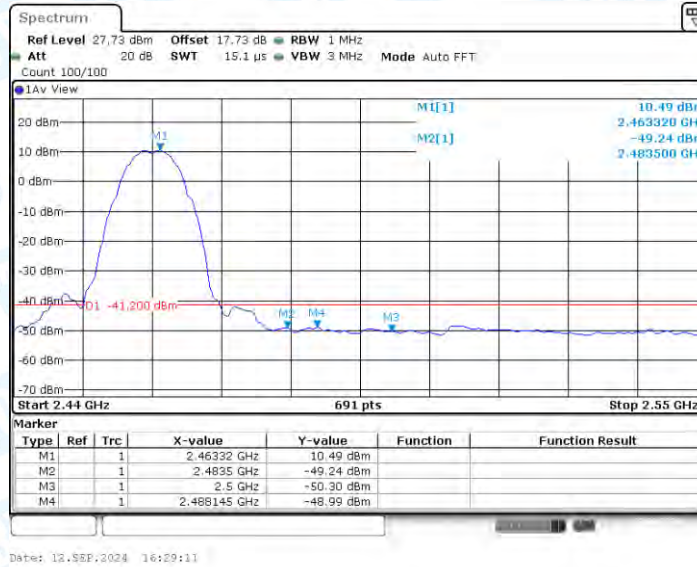
### 11B-CDD\_Ant1\_High\_2462\_AV



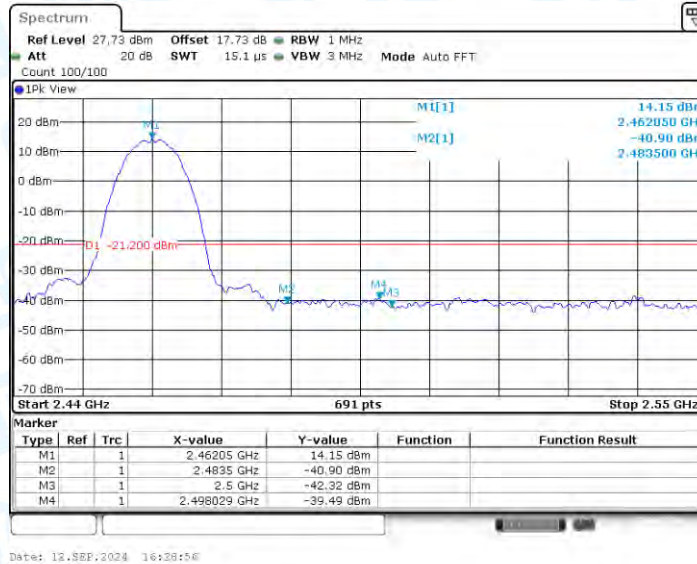
### 11B-CDD\_Ant1\_High\_2462\_Peak



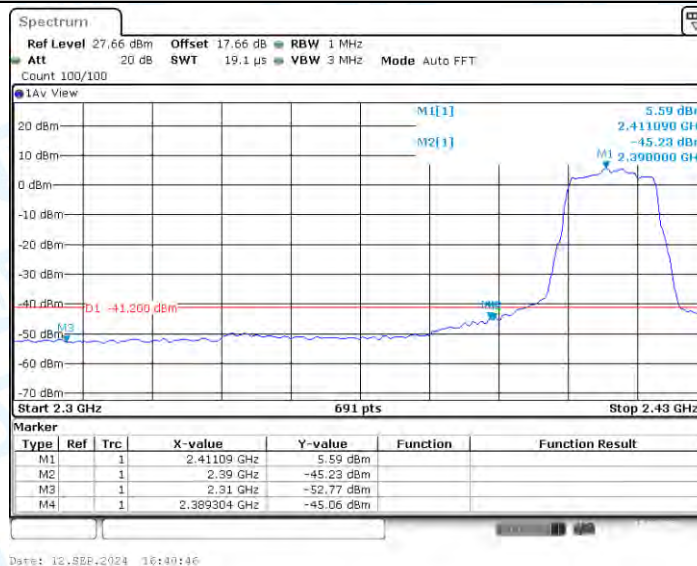
### 11B-CDD\_Ant2\_High\_2462\_AV



11B-CDD\_Ant2\_High\_2462\_Peak



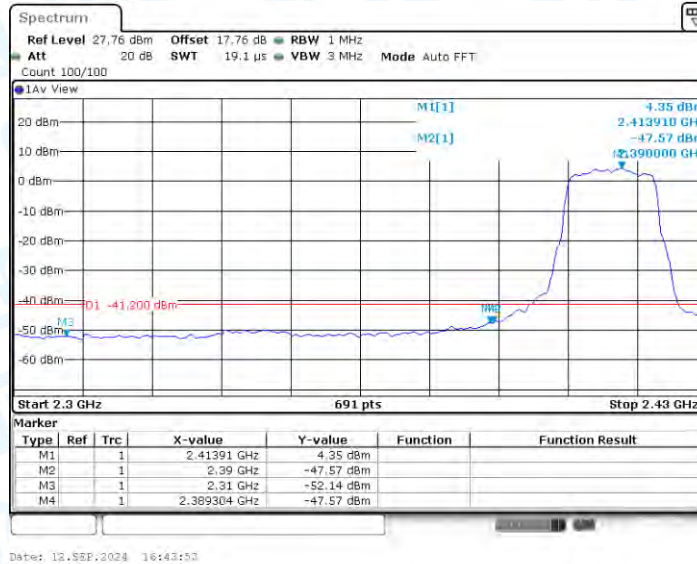
11G-CDD\_Ant1\_Low\_2412\_AV



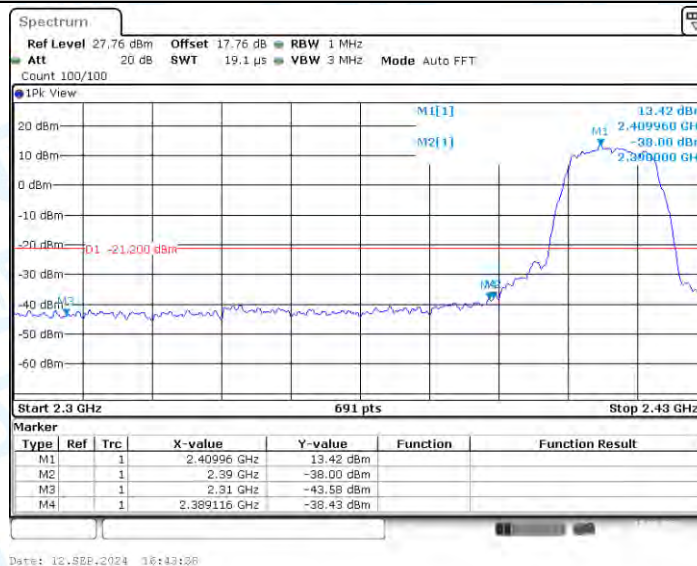
11G-CDD\_Ant1\_Low\_2412\_Peak



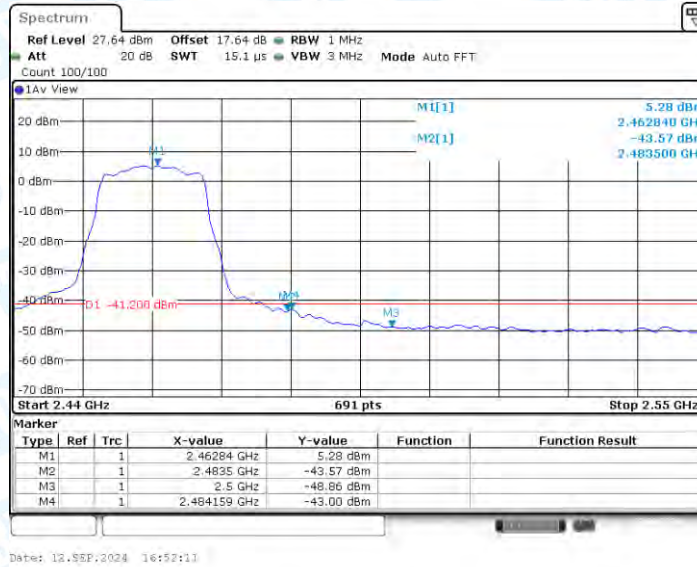
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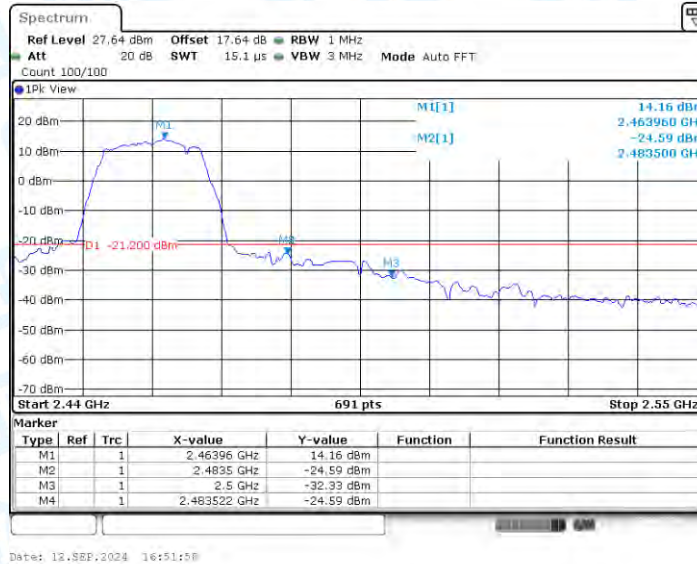
11G-CDD\_Ant2\_Low\_2412\_Peak



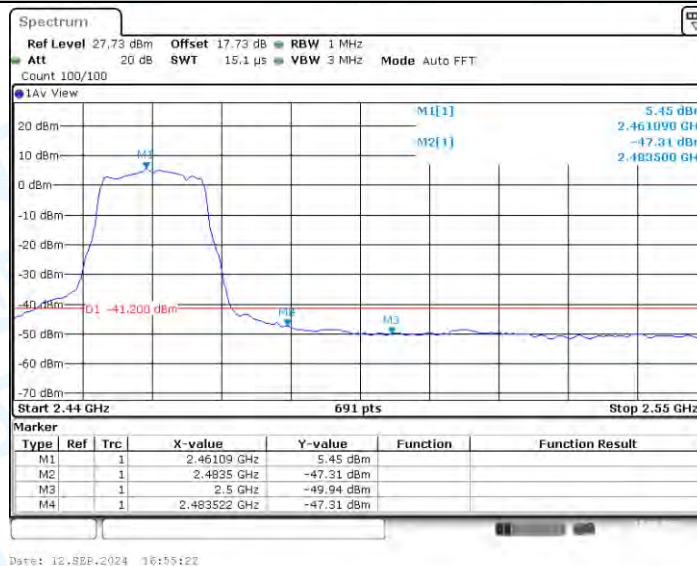
11G-CDD\_Ant1\_High\_2462\_AV



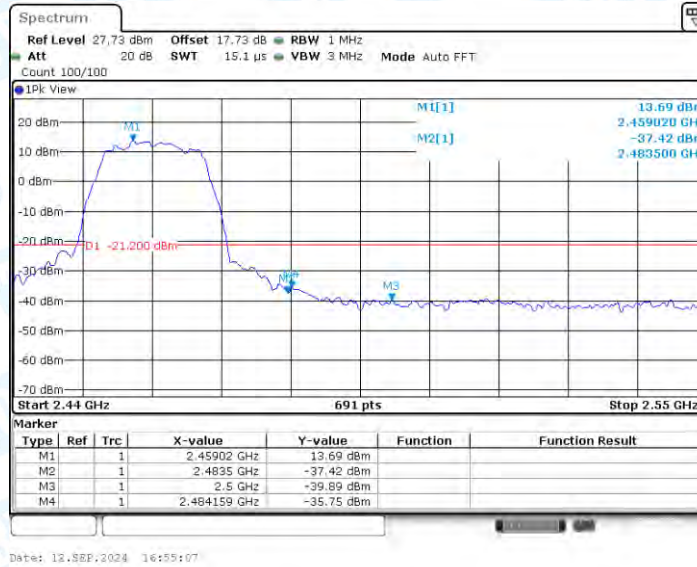
11G-CDD\_Ant1\_High\_2462\_Peak



11G-CDD\_Ant2\_High\_2462\_AV



11G-CDD\_Ant2\_High\_2462\_Peak



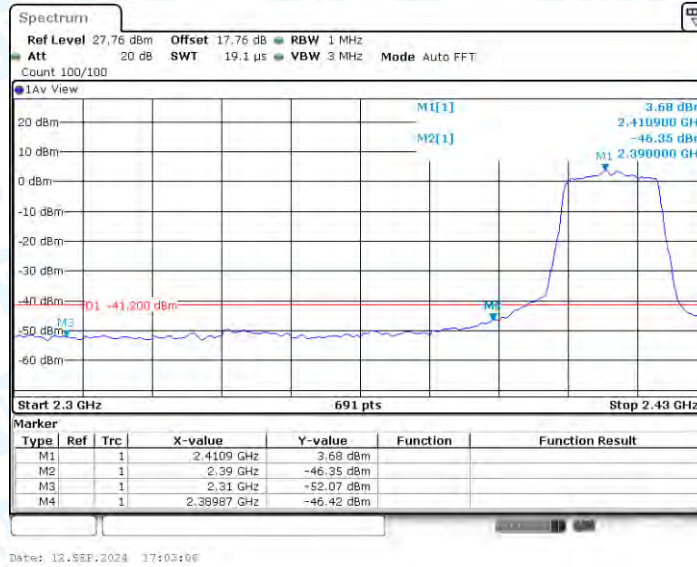
11N20MIMO\_Ant1\_Low\_2412\_AV



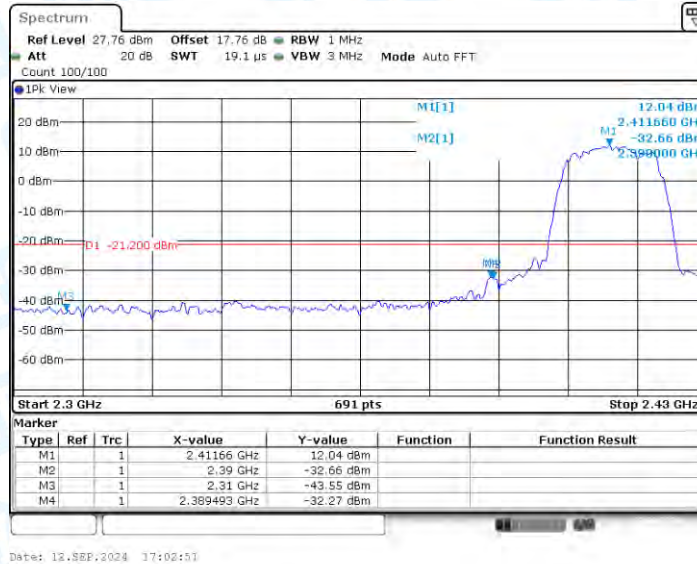
11N20MIMO\_Ant1\_Low\_2412\_Peak



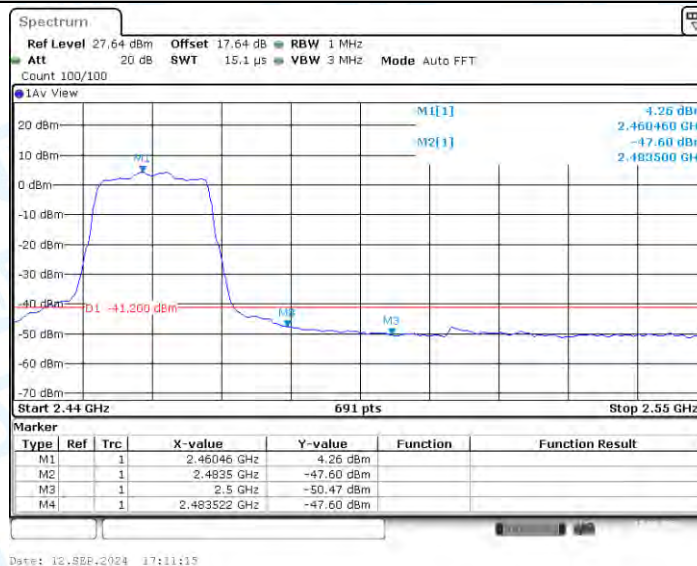
11N20MIMO\_Ant2\_Low\_2412\_AV



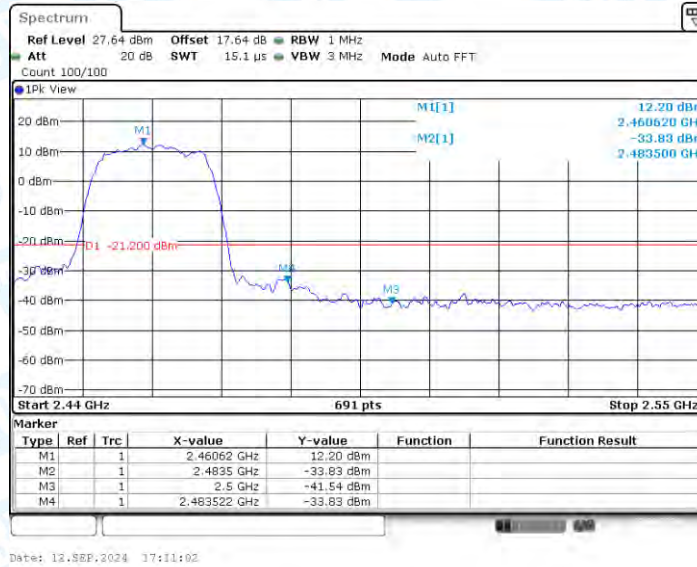
11N20MIMO\_Ant2\_Low\_2412\_Peak



11N20MIMO\_Ant1\_High\_2462\_AV



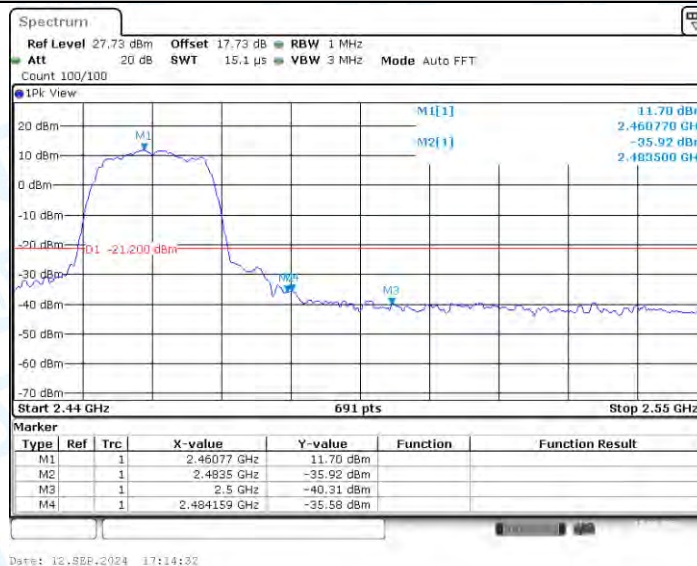
11N20MIMO\_Ant1\_High\_2462\_Peak



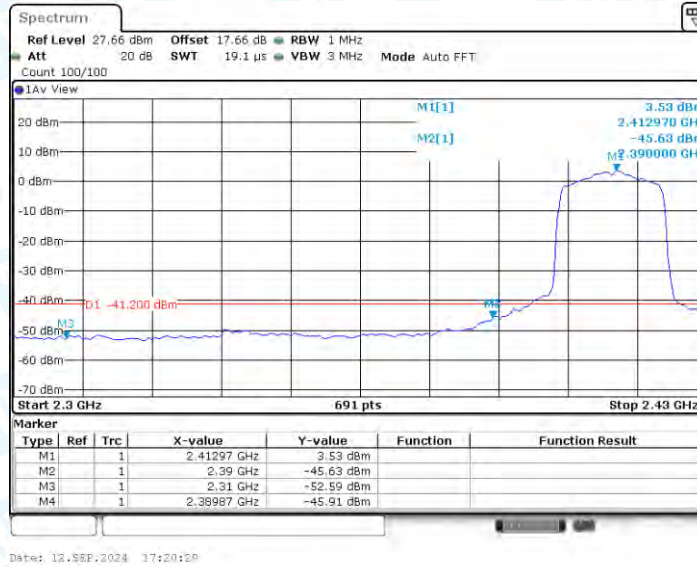
11N20MIMO\_Ant2\_High\_2462\_AV



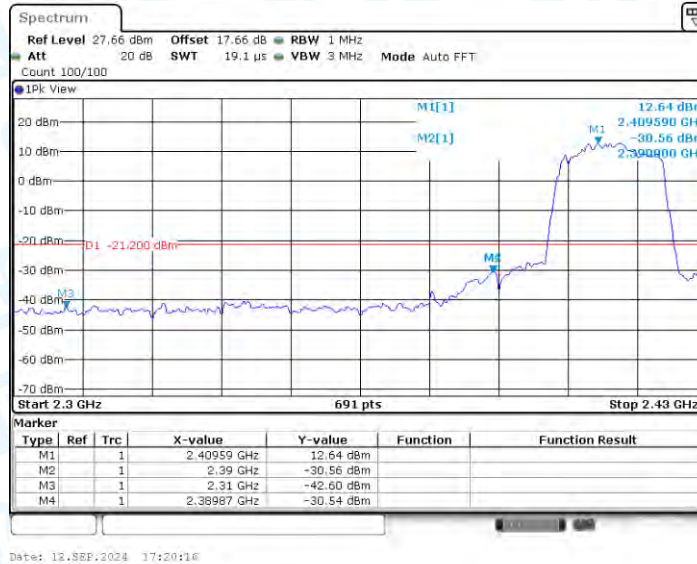
11N20MIMO\_Ant2\_High\_2462\_Peak



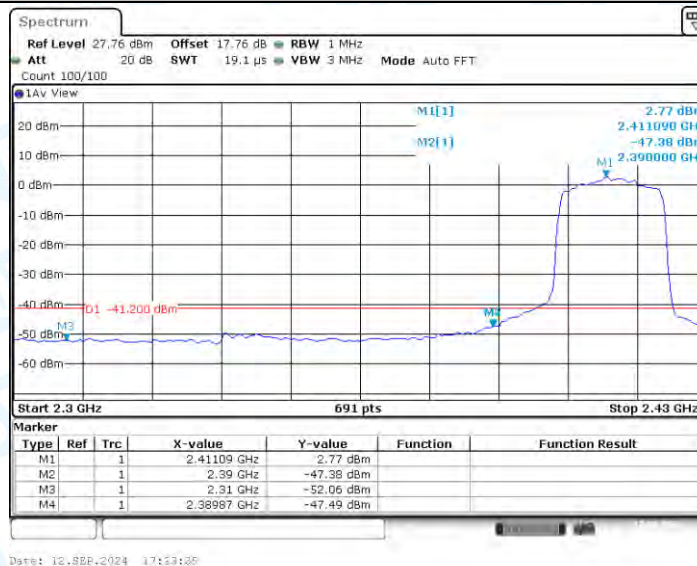
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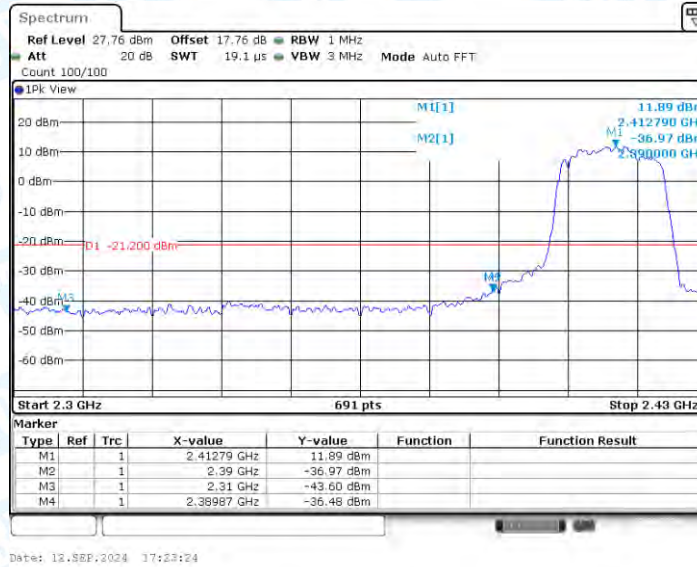
11AX20MIMO\_Ant1\_Low\_2412\_Peak



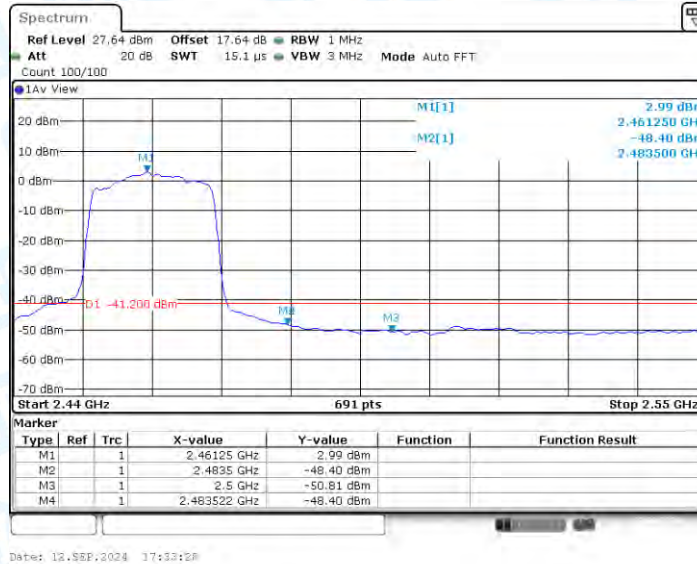
11AX20MIMO\_Ant2\_Low\_2412\_AV



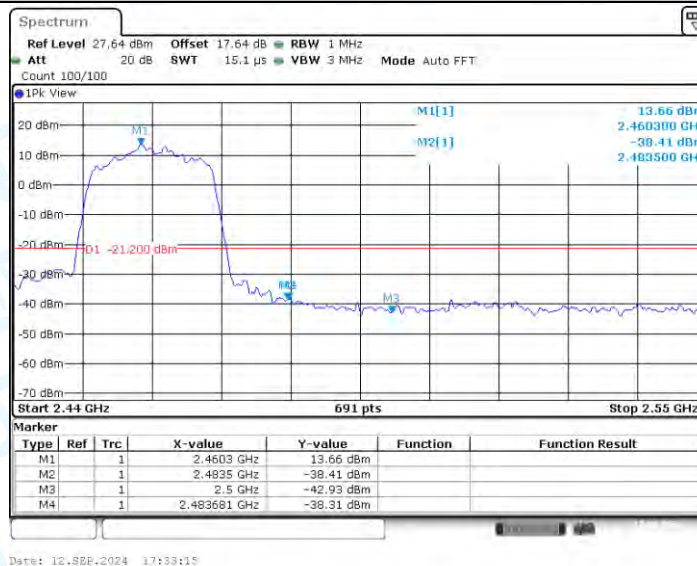
11AX20MIMO\_Ant2\_Low\_2412\_Peak



11AX20MIMO\_Ant1\_High\_2462\_AV



11AX20MIMO\_Ant1\_High\_2462\_Peak



11AX20MIMO\_Ant2\_High\_2462\_AV



-----End of the report-----