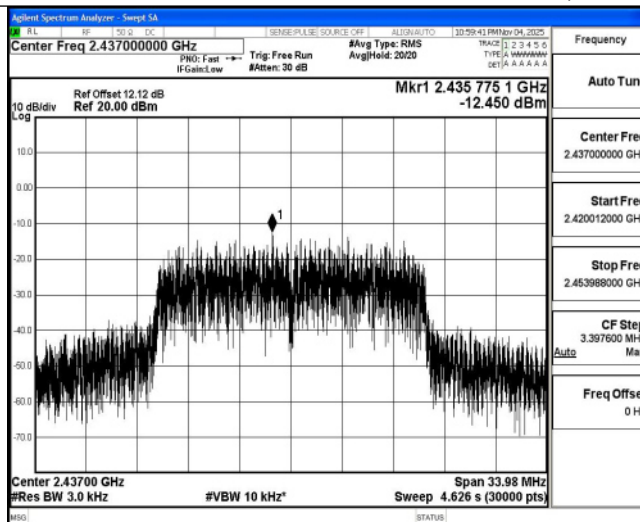
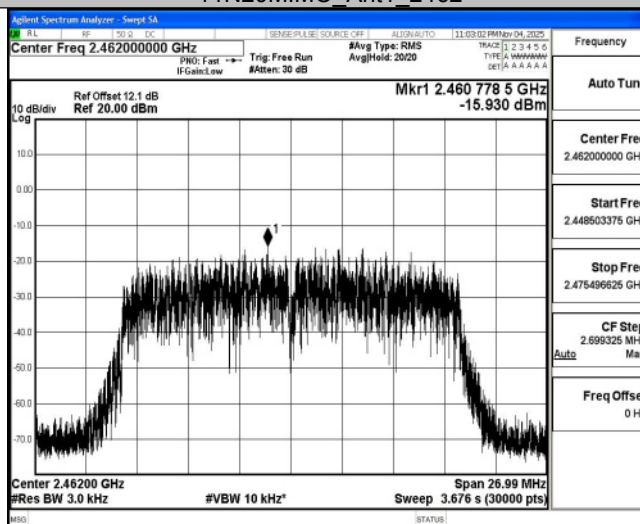
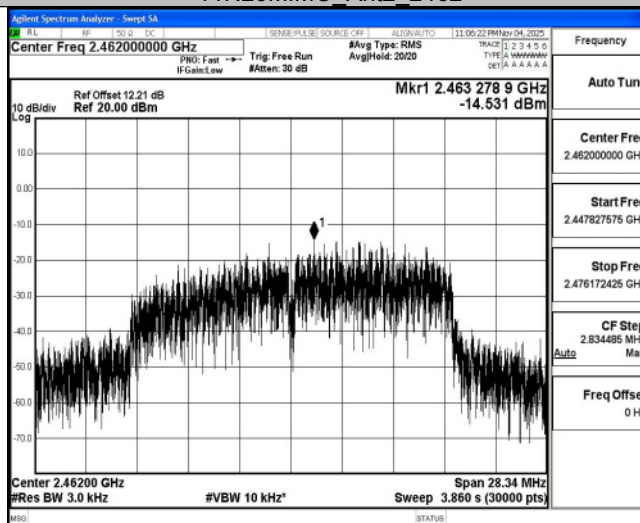




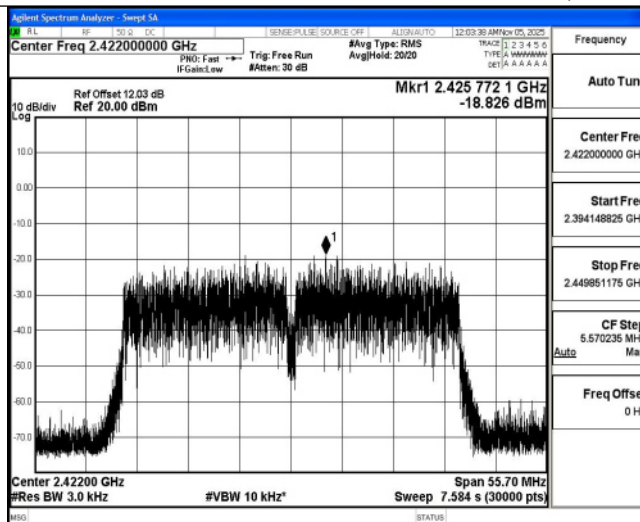
11N20MIMO Ant1 2462



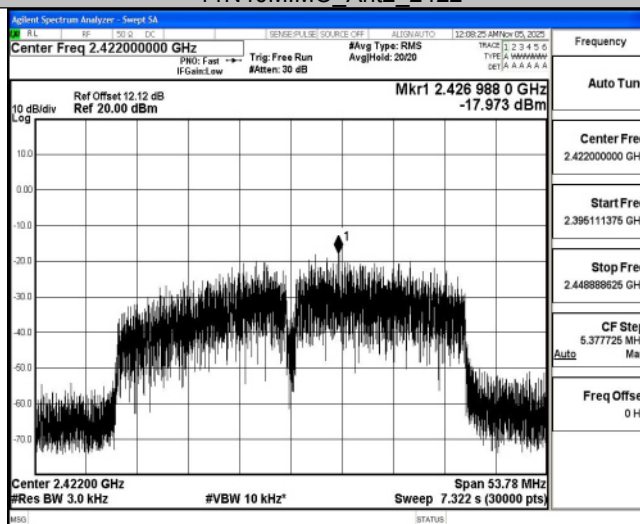
11N20MIMO Ant2 2462



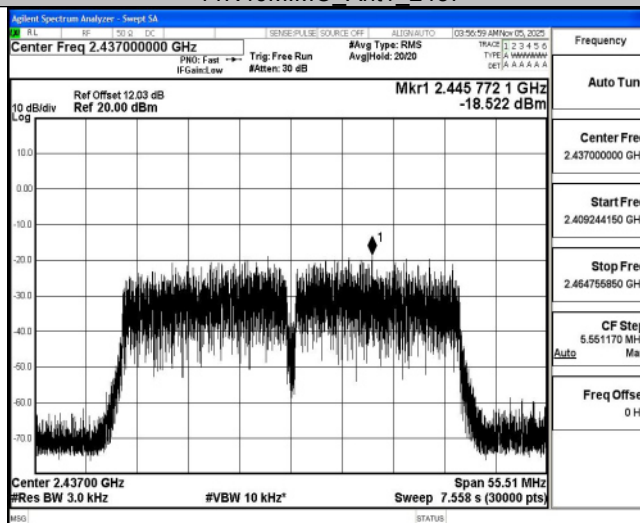
11N40MIMO Ant1 2422



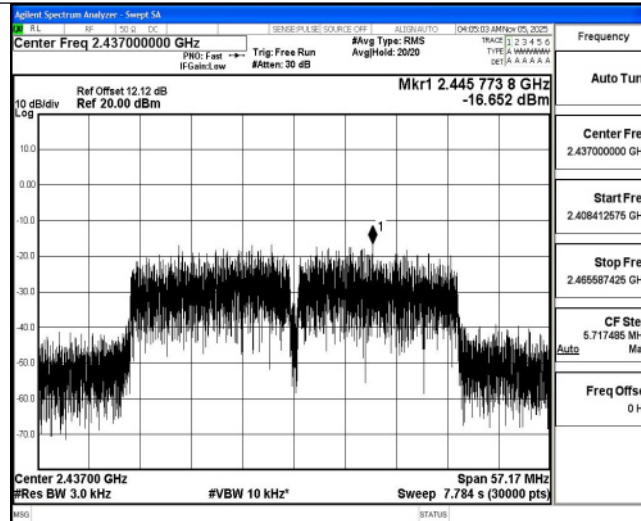
11N40MIMO Ant2\_2422



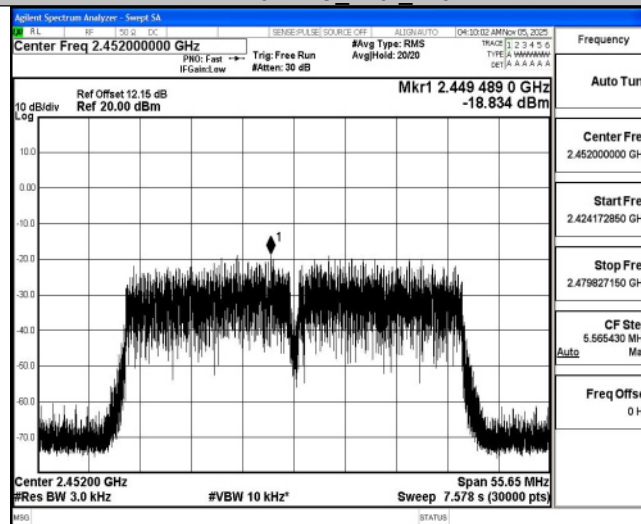
11N40MIMO Ant1\_2437



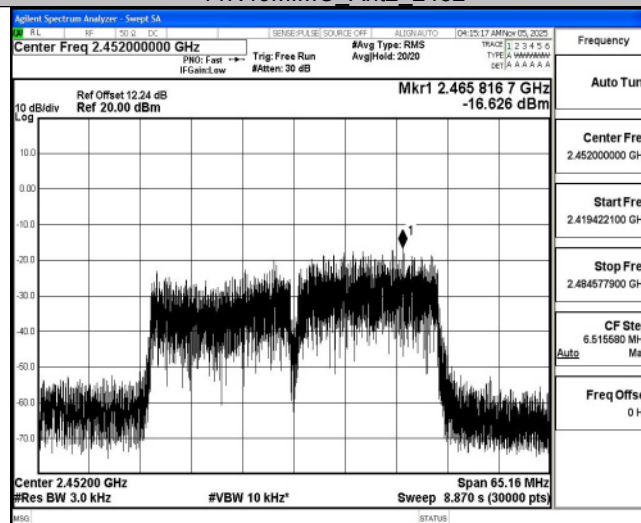
11N40MIMO Ant2\_2437



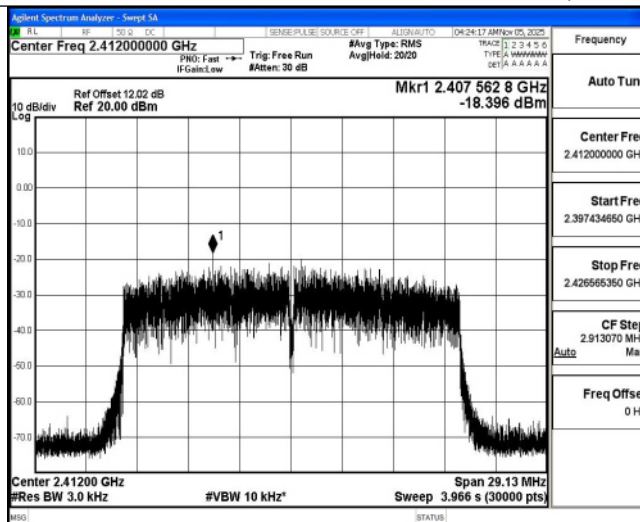
11N40MIMO\_Ant1\_2452



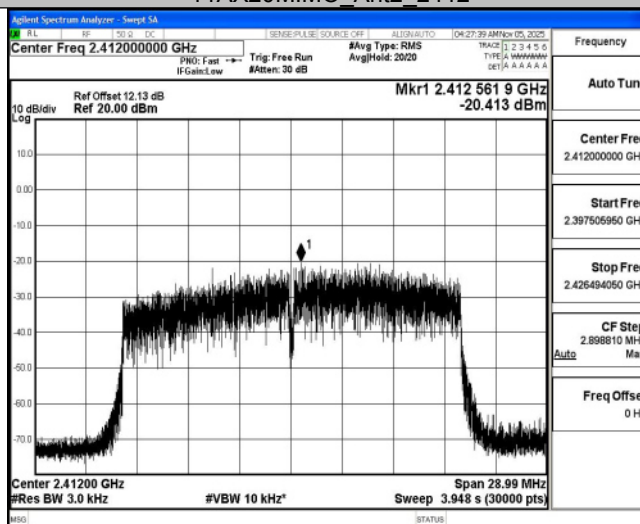
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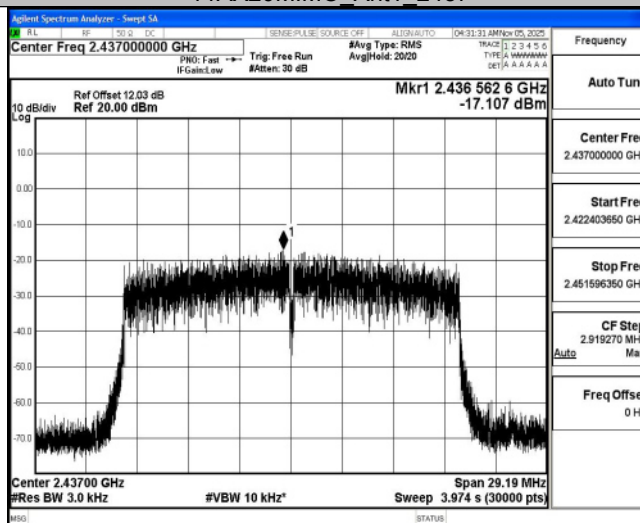
11AX20MIMO\_Ant1\_2412



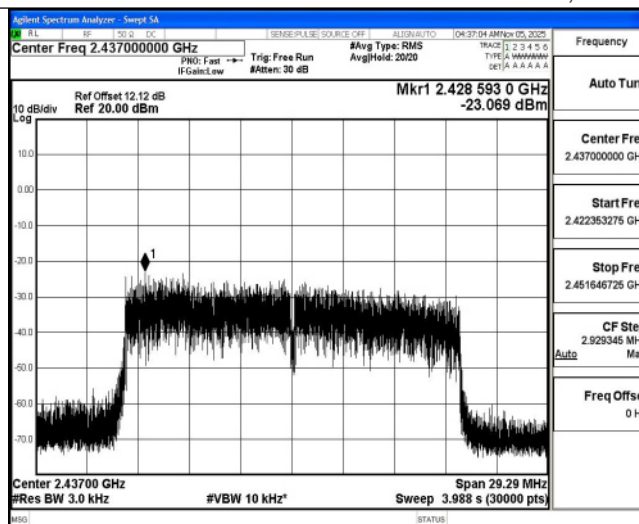
11AX20MIMO\_Ant2\_2412



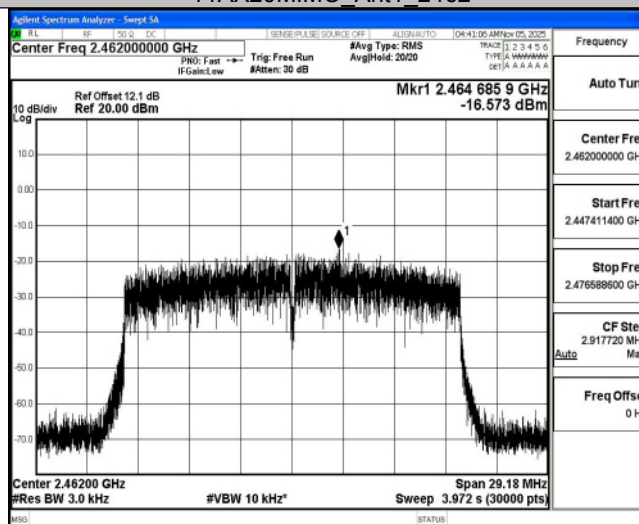
11AX20MIMO\_Ant1\_2437



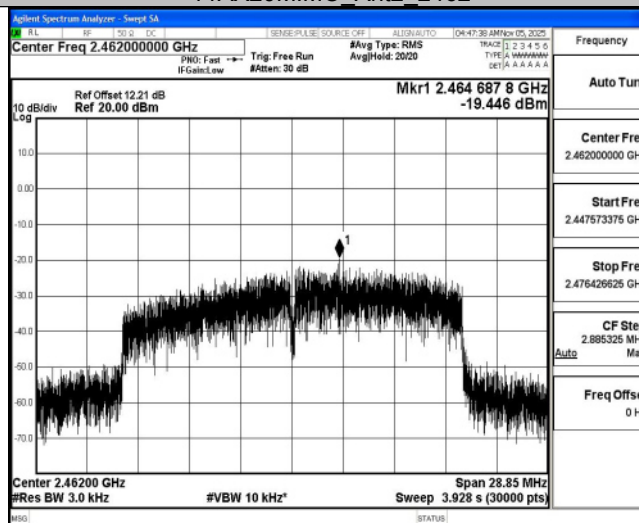
11AX20MIMO\_Ant2\_2437



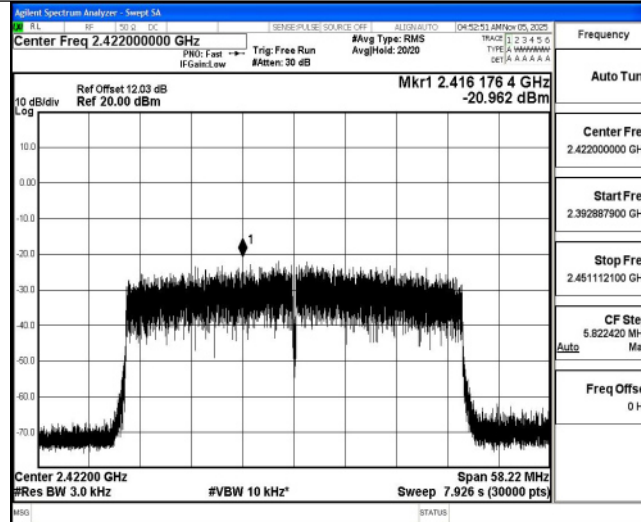
11AX20MIMO\_Ant1\_2462



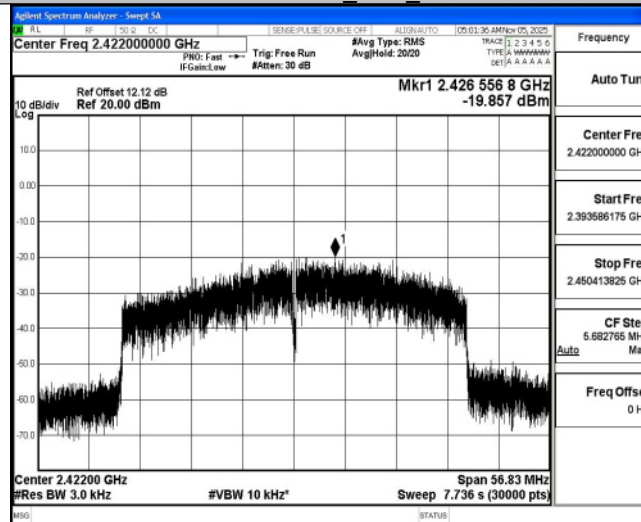
11AX20MIMO\_Ant2\_2462



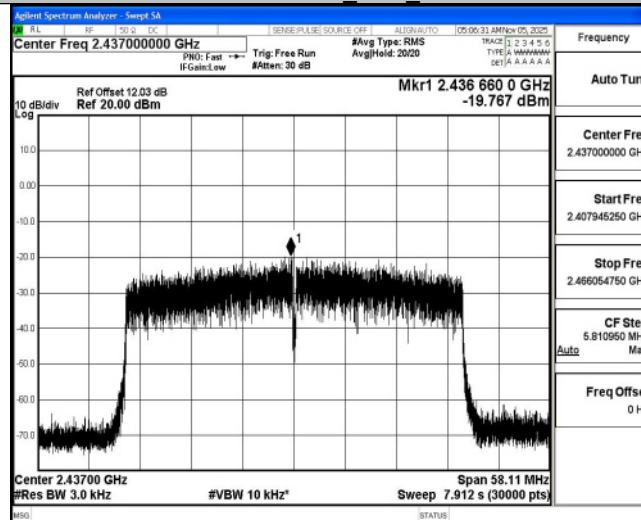
11AX40MIMO\_Ant1\_2422



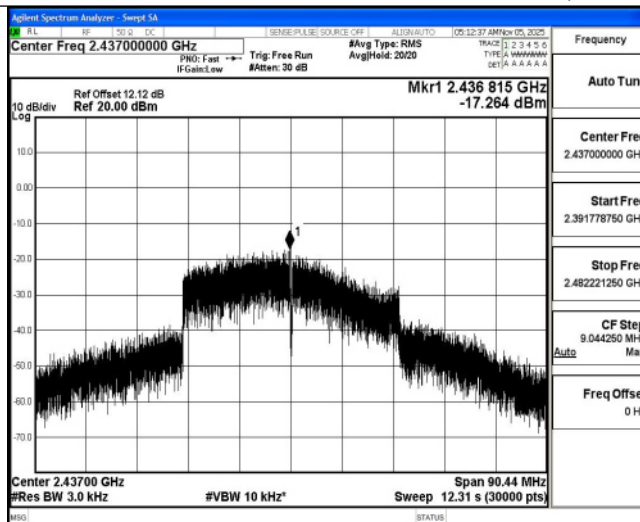
11AX40MIMO\_Ant2\_2422



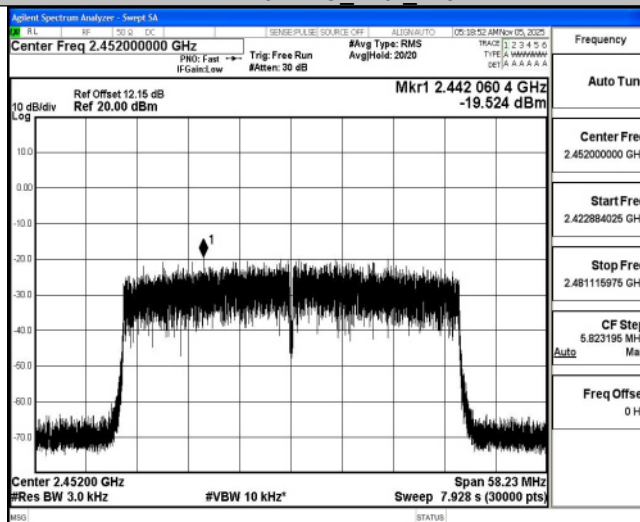
11AX40MIMO\_Ant1\_2437



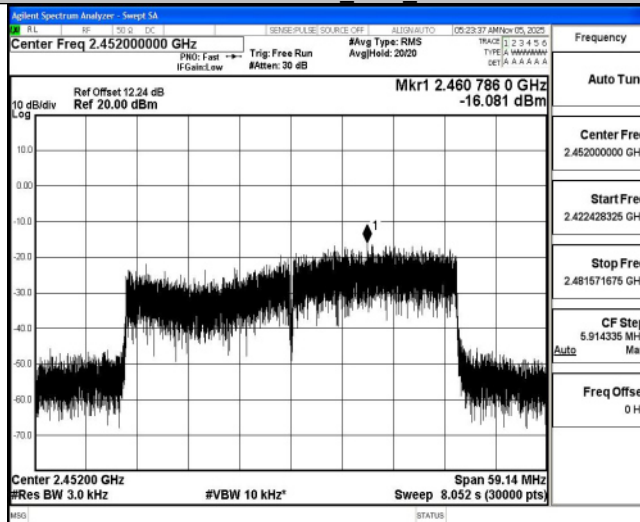
11AX40MIMO\_Ant2\_2437



11AX40MIMO\_Ant1\_2452



11AX40MIMO\_Ant2\_2452





## Appendix E: Band edge measurements

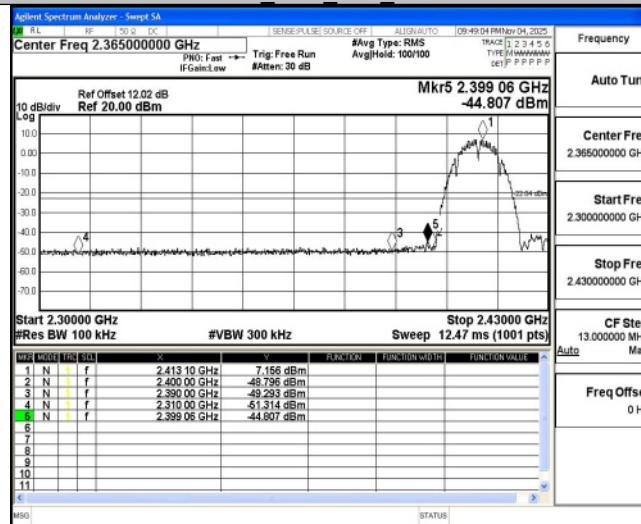
### Test Result

| TestMode   | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|------------|---------|--------|----------------|---------------|-------------|---------------|---------|
| 11B        | Ant1    | Low    | 2412           | 7.16          | -44.81      | $\leq -22.84$ | PASS    |
|            | Ant2    | Low    | 2412           | 6.37          | -37.54      | $\leq -23.63$ | PASS    |
|            | Ant1    | High   | 2462           | 7.16          | -46.92      | $\leq -22.85$ | PASS    |
|            | Ant2    | High   | 2462           | 9.04          | -44.66      | $\leq -20.97$ | PASS    |
| 11G        | Ant1    | Low    | 2412           | 5.34          | -40.98      | $\leq -24.66$ | PASS    |
|            | Ant2    | Low    | 2412           | 4.38          | -41.52      | $\leq -25.62$ | PASS    |
|            | Ant1    | High   | 2462           | 5.86          | -46.89      | $\leq -24.14$ | PASS    |
|            | Ant2    | High   | 2462           | 7.82          | -38         | $\leq -22.18$ | PASS    |
| 11N20MIMO  | Ant1    | Low    | 2412           | 4.97          | -39.87      | $\leq -25.03$ | PASS    |
|            | Ant2    | Low    | 2412           | 5.16          | -32.12      | $\leq -24.84$ | PASS    |
|            | Ant1    | High   | 2462           | 5.08          | -44.37      | $\leq -24.92$ | PASS    |
|            | Ant2    | High   | 2462           | 6.40          | -30.63      | $\leq -23.6$  | PASS    |
| 11N40MIMO  | Ant1    | Low    | 2422           | 1.39          | -40.59      | $\leq -28.61$ | PASS    |
|            | Ant2    | Low    | 2422           | 2.66          | -31.41      | $\leq -27.34$ | PASS    |
|            | Ant1    | High   | 2452           | 2.37          | -39.77      | $\leq -27.63$ | PASS    |
|            | Ant2    | High   | 2452           | 3.92          | -29.65      | $\leq -26.08$ | PASS    |
| 11AX20MIMO | Ant1    | Low    | 2412           | 0.51          | -39.55      | $\leq -29.49$ | PASS    |
|            | Ant2    | Low    | 2412           | -0.23         | -46.36      | $\leq -30.23$ | PASS    |
|            | Ant1    | High   | 2462           | 2.54          | -46.37      | $\leq -27.46$ | PASS    |
|            | Ant2    | High   | 2462           | 2.12          | -46.98      | $\leq -27.88$ | PASS    |
| 11AX40MIMO | Ant1    | Low    | 2422           | 0.03          | -42.27      | $\leq -29.97$ | PASS    |
|            | Ant2    | Low    | 2422           | 1.13          | -31.55      | $\leq -28.87$ | PASS    |
|            | Ant1    | High   | 2452           | 0.65          | -40.68      | $\leq -29.35$ | PASS    |
|            | Ant2    | High   | 2452           | -0.09         | -46.87      | $\leq -30.09$ | PASS    |

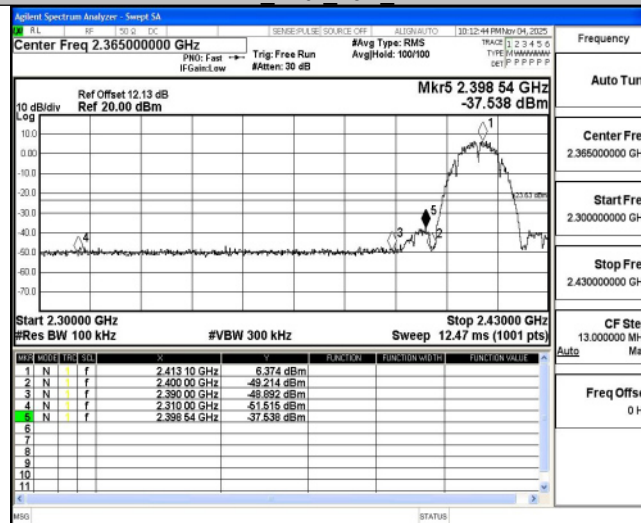


## Test Graphs

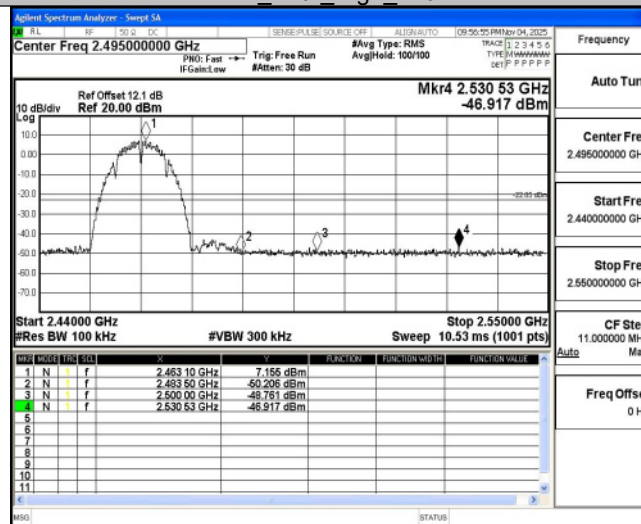
11B\_Ant1\_Low\_2412



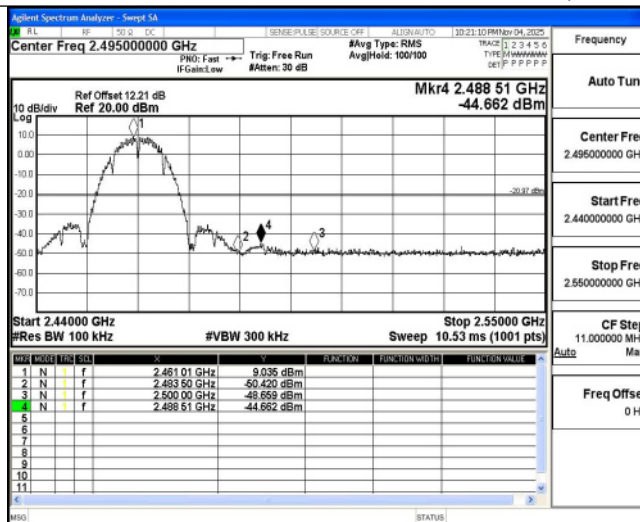
11B\_Ant2\_Low\_2412



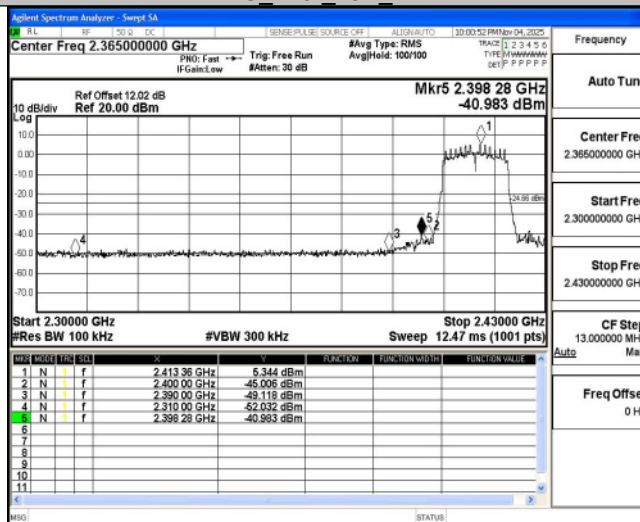
11B\_Ant1\_High\_2462



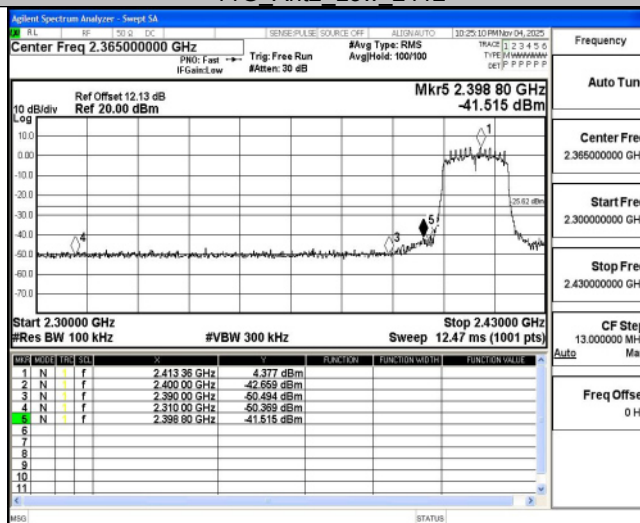
11B\_Ant2\_High\_2462



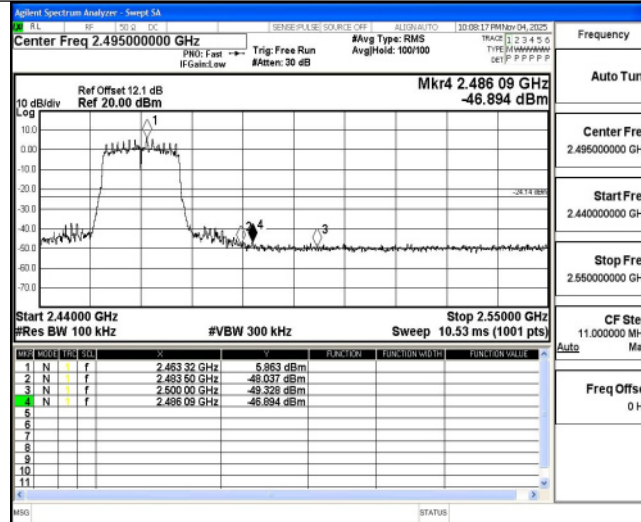
11G\_Ant1\_Low\_2412



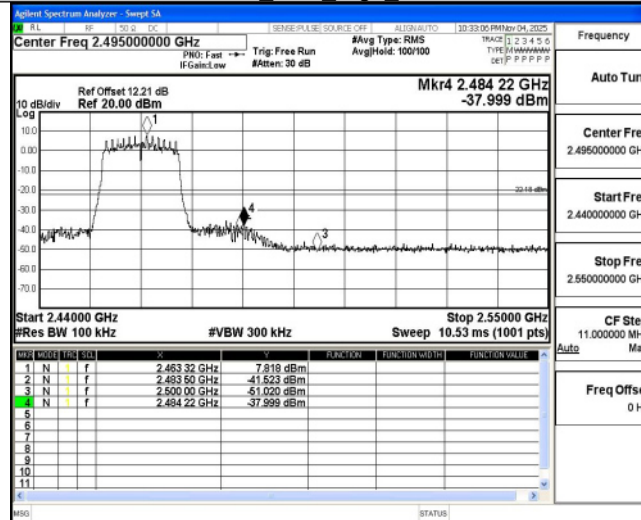
11G\_Ant2\_Low\_2412



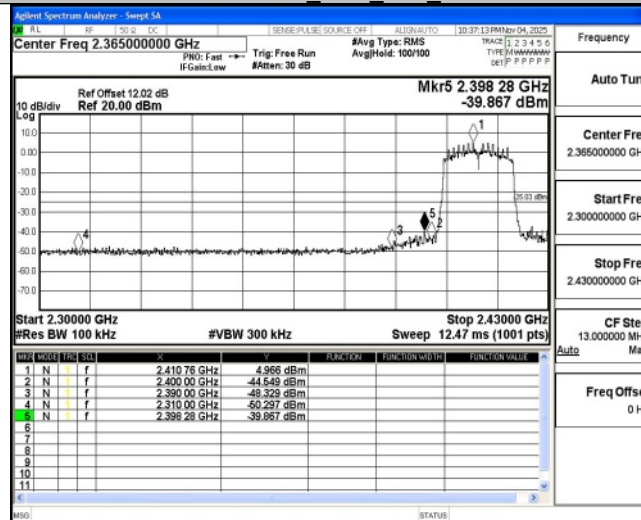
11G\_Ant1\_High\_2462



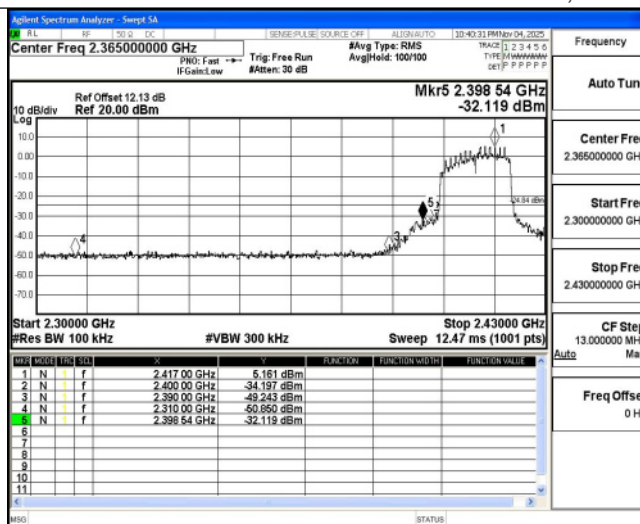
11G\_Ant2\_High\_2462



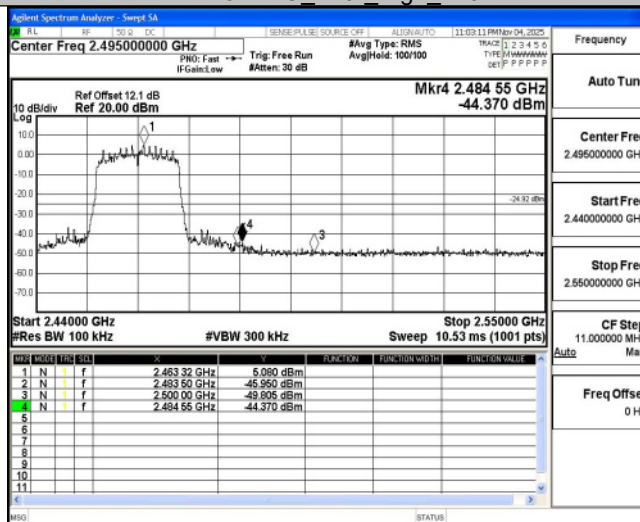
11N20MIMO\_Ant1\_Low\_2412



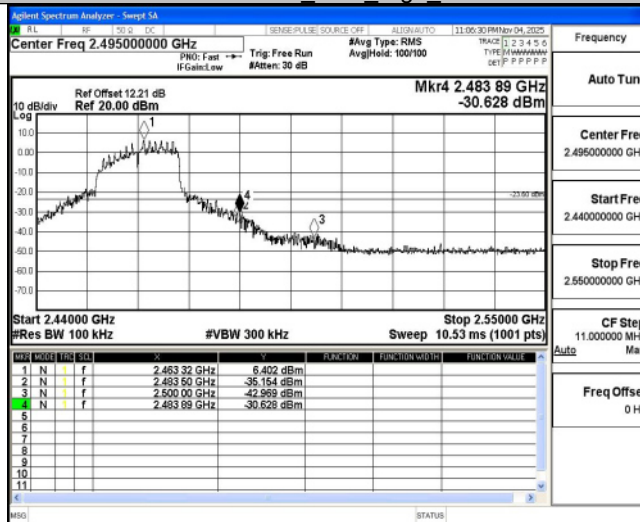
11N20MIMO\_Ant2\_Low\_2412



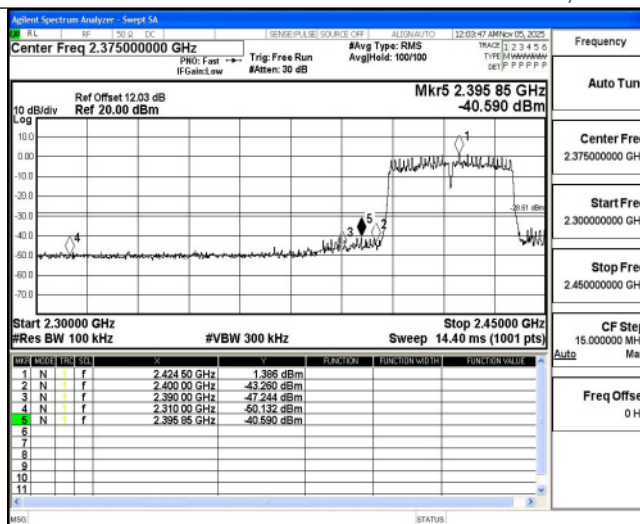
11N20MIMO Ant1 High 2462



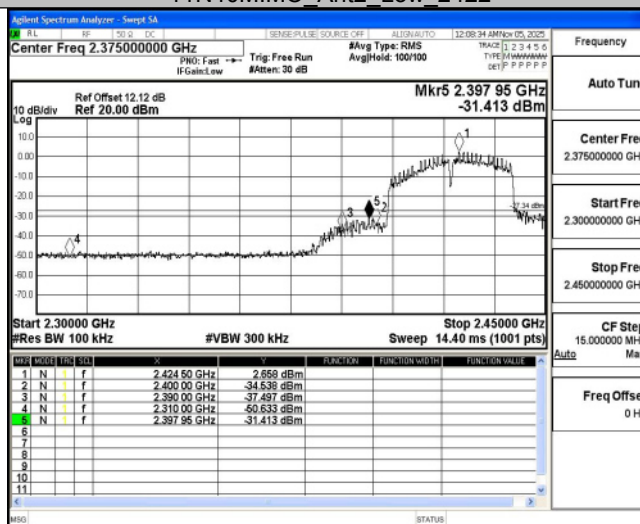
11N20MIMO Ant2 High 2462



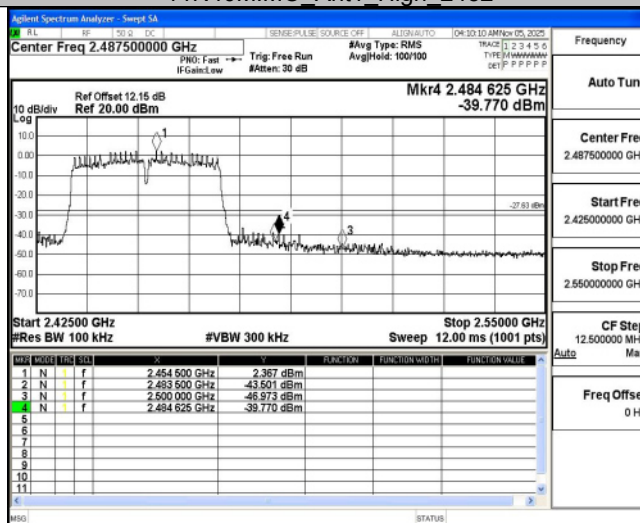
11N40MIMO Ant1 Low 2422



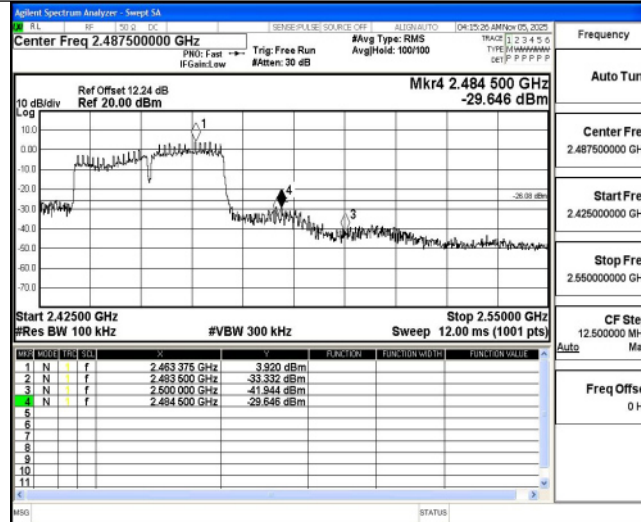
11N40MIMO\_Ant2\_Low\_2422



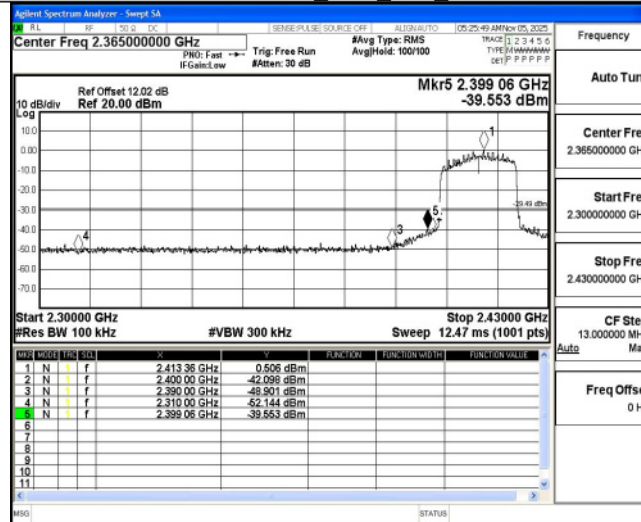
11N40MIMO\_Ant1\_High\_2452



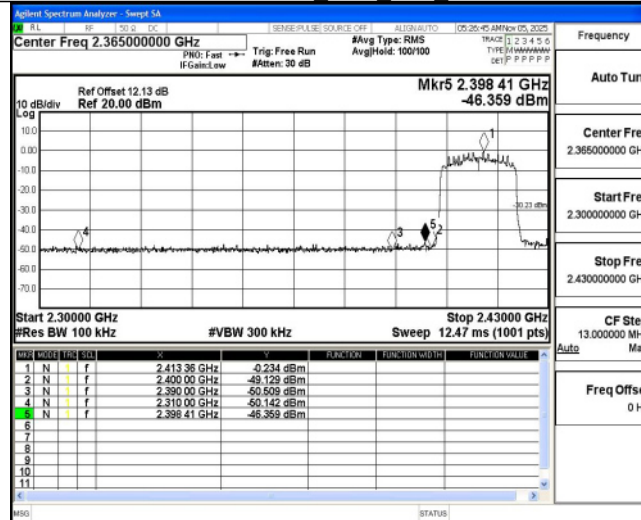
11N40MIMO\_Ant2\_High\_2452



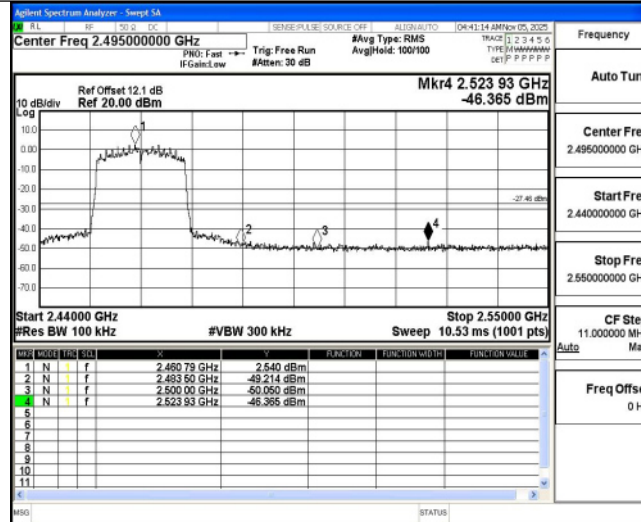
11AX20MIMO\_Ant1\_Low\_2412



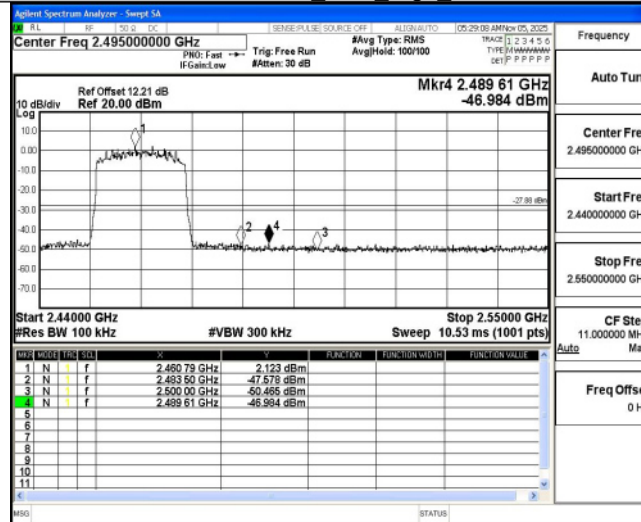
11AX20MIMO\_Ant2\_Low\_2412



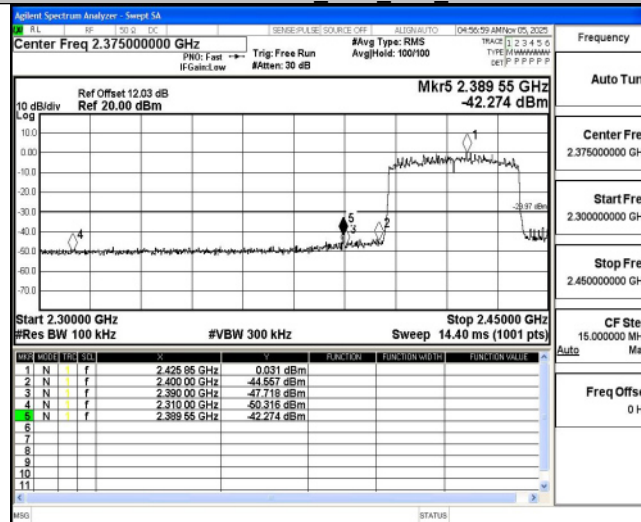
11AX20MIMO\_Ant1\_High\_2462



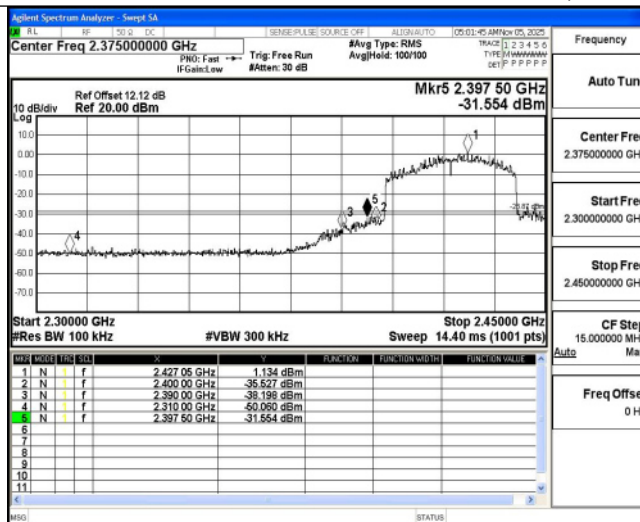
11AX20MIMO\_Ant2\_High\_2462



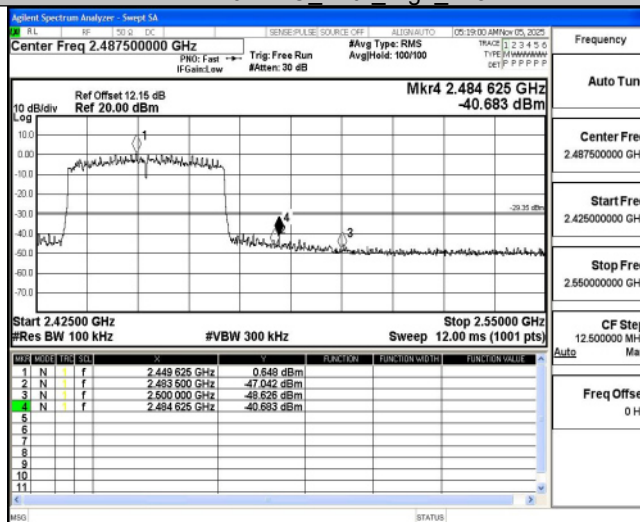
11AX40MIMO\_Ant1\_Low\_2422



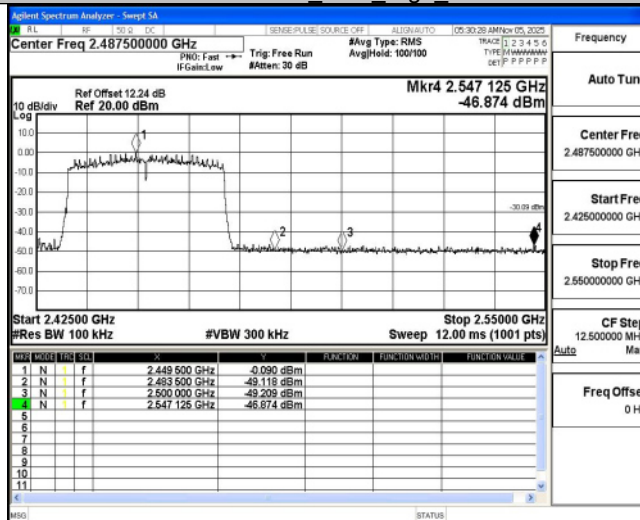
11AX40MIMO\_Ant2\_Low\_2422



## 11AX40MIMO\_Ant1\_High\_2452



## 11AX40MIMO\_Ant2\_High\_2452





## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 6.30           | 6.30         | ---         | PASS    |
|           |         |                | 30~1000         | 6.30           | -58.62       | ≤-23.7      | PASS    |
|           |         |                | 1000~26500      | 6.30           | -47.25       | ≤-23.7      | PASS    |
|           | Ant2    | 2412           | Reference       | 6.01           | 6.01         | ---         | PASS    |
|           |         |                | 30~1000         | 6.01           | -58.94       | ≤-23.99     | PASS    |
|           |         |                | 1000~26500      | 6.01           | -45.51       | ≤-23.99     | PASS    |
|           | Ant1    | 2437           | Reference       | 6.80           | 6.80         | ---         | PASS    |
|           |         |                | 30~1000         | 6.80           | -59.37       | ≤-23.2      | PASS    |
|           |         |                | 1000~26500      | 6.80           | -45.31       | ≤-23.2      | PASS    |
|           | Ant2    | 2437           | Reference       | 9.36           | 9.36         | ---         | PASS    |
|           |         |                | 30~1000         | 9.36           | -58.69       | ≤-20.64     | PASS    |
|           |         |                | 1000~26500      | 9.36           | -42.08       | ≤-20.64     | PASS    |
|           | Ant1    | 2462           | Reference       | 6.79           | 6.79         | ---         | PASS    |
|           |         |                | 30~1000         | 6.79           | -59.26       | ≤-23.21     | PASS    |
|           |         |                | 1000~26500      | 6.79           | -44.56       | ≤-23.21     | PASS    |
|           | Ant2    | 2462           | Reference       | 8.40           | 8.40         | ---         | PASS    |
|           |         |                | 30~1000         | 8.40           | -58.32       | ≤-21.6      | PASS    |
|           |         |                | 1000~26500      | 8.40           | -42.4        | ≤-21.6      | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 4.95           | 4.95         | ---         | PASS    |
|           |         |                | 30~1000         | 4.95           | -59.66       | ≤-25.05     | PASS    |
|           |         |                | 1000~26500      | 4.95           | -48.41       | ≤-25.05     | PASS    |
|           | Ant2    | 2412           | Reference       | 3.75           | 3.75         | ---         | PASS    |
|           |         |                | 30~1000         | 3.75           | -59.58       | ≤-26.25     | PASS    |
|           |         |                | 1000~26500      | 3.75           | -48.13       | ≤-26.25     | PASS    |
|           | Ant1    | 2437           | Reference       | 5.00           | 5.00         | ---         | PASS    |
|           |         |                | 30~1000         | 5.00           | -59.81       | ≤-25        | PASS    |
|           |         |                | 1000~26500      | 5.00           | -49.26       | ≤-25        | PASS    |
|           | Ant2    | 2437           | Reference       | 6.60           | 6.60         | ---         | PASS    |
|           |         |                | 30~1000         | 6.60           | -59.18       | ≤-23.4      | PASS    |
|           |         |                | 1000~26500      | 6.60           | -47.85       | ≤-23.4      | PASS    |
|           | Ant1    | 2462           | Reference       | 4.56           | 4.56         | ---         | PASS    |
|           |         |                | 30~1000         | 4.56           | -59.1        | ≤-25.44     | PASS    |
|           |         |                | 1000~26500      | 4.56           | -49.55       | ≤-25.44     | PASS    |
|           | Ant2    | 2462           | Reference       | 6.40           | 6.40         | ---         | PASS    |
|           |         |                | 30~1000         | 6.40           | -59.19       | ≤-23.6      | PASS    |
|           |         |                | 1000~26500      | 6.40           | -49          | ≤-23.6      | PASS    |
| 11N20MIMO | Ant1    | 2412           | Reference       | 4.87           | 4.87         | ---         | PASS    |
|           |         |                | 30~1000         | 4.87           | -59.37       | ≤-25.13     | PASS    |
|           |         |                | 1000~26500      | 4.87           | -48.85       | ≤-25.13     | PASS    |
|           | Ant2    | 2412           | Reference       | 5.19           | 5.19         | ---         | PASS    |
|           |         |                | 30~1000         | 5.19           | -58.77       | ≤-24.81     | PASS    |
|           |         |                | 1000~26500      | 5.19           | -48.37       | ≤-24.81     | PASS    |
|           | Ant1    | 2437           | Reference       | 4.85           | 4.85         | ---         | PASS    |
|           |         |                | 30~1000         | 4.85           | -58.1        | ≤-25.15     | PASS    |
|           |         |                | 1000~26500      | 4.85           | -49.37       | ≤-25.15     | PASS    |
|           | Ant2    | 2437           | Reference       | 4.51           | 4.51         | ---         | PASS    |
|           |         |                | 30~1000         | 4.51           | -57.6        | ≤-25.49     | PASS    |
|           |         |                | 1000~26500      | 4.51           | -48.29       | ≤-25.49     | PASS    |
|           | Ant1    | 2462           | Reference       | 5.38           | 5.38         | ---         | PASS    |
|           |         |                | 30~1000         | 5.38           | -57.56       | ≤-24.62     | PASS    |
|           |         |                | 1000~26500      | 5.38           | -49.06       | ≤-24.62     | PASS    |
|           | Ant2    | 2462           | Reference       | 6.08           | 6.08         | ---         | PASS    |
|           |         |                | 30~1000         | 6.08           | -57.83       | ≤-23.92     | PASS    |
|           |         |                | 1000~26500      | 6.08           | -48.98       | ≤-23.92     | PASS    |
| 11N40MIMO | Ant1    | 2422           | Reference       | 0.05           | 0.05         | ---         | PASS    |
|           |         |                | 30~1000         | 0.05           | -59.51       | ≤-29.95     | PASS    |
|           |         |                | 1000~26500      | 0.05           | -47.21       | ≤-29.95     | PASS    |
|           | Ant2    | 2422           | Reference       | 2.57           | 2.57         | ---         | PASS    |
|           |         |                | 30~1000         | 2.57           | -57.11       | ≤-27.43     | PASS    |
|           |         |                | 1000~26500      | 2.57           | -48.85       | ≤-27.43     | PASS    |

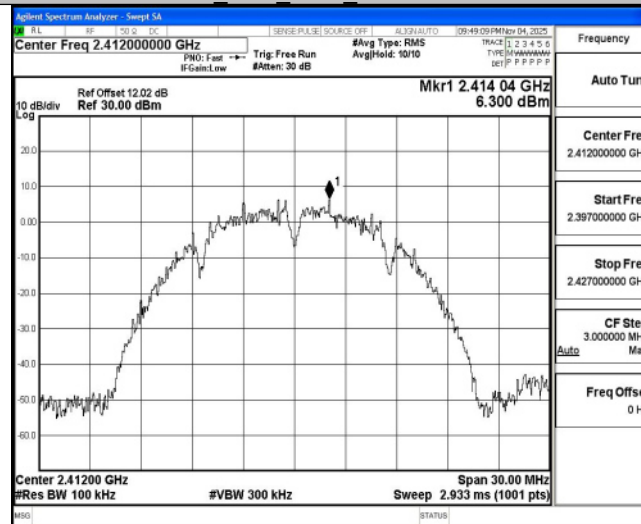


|            |      |      |            |       |        |               |      |
|------------|------|------|------------|-------|--------|---------------|------|
|            | Ant1 | 2437 | Reference  | 1.44  | 1.44   | ---           | PASS |
|            |      |      | 30~1000    | 1.44  | -57.72 | $\leq -28.56$ | PASS |
|            |      |      | 1000~26500 | 1.44  | -47.91 | $\leq -28.56$ | PASS |
|            | Ant2 | 2437 | Reference  | 4.24  | 4.24   | ---           | PASS |
|            |      |      | 30~1000    | 4.24  | -57.89 | $\leq -25.76$ | PASS |
|            |      |      | 1000~26500 | 4.24  | -48.81 | $\leq -25.76$ | PASS |
|            | Ant1 | 2452 | Reference  | 2.33  | 2.33   | ---           | PASS |
|            |      |      | 30~1000    | 2.33  | -56.22 | $\leq -27.67$ | PASS |
|            |      |      | 1000~26500 | 2.33  | -49.14 | $\leq -27.67$ | PASS |
|            | Ant2 | 2452 | Reference  | 3.37  | 3.37   | ---           | PASS |
|            |      |      | 30~1000    | 3.37  | -57.84 | $\leq -26.63$ | PASS |
|            |      |      | 1000~26500 | 3.37  | -48.12 | $\leq -26.63$ | PASS |
| 11AX20MIMO | Ant1 | 2412 | Reference  | 0.07  | 0.07   | ---           | PASS |
|            |      |      | 30~1000    | 0.07  | -57.15 | $\leq -29.93$ | PASS |
|            |      |      | 1000~26500 | 0.07  | -48.42 | $\leq -29.93$ | PASS |
|            | Ant2 | 2412 | Reference  | -1.42 | -1.42  | ---           | PASS |
|            |      |      | 30~1000    | -1.42 | -58.57 | $\leq -31.42$ | PASS |
|            |      |      | 1000~26500 | -1.42 | -48.82 | $\leq -31.42$ | PASS |
|            | Ant1 | 2437 | Reference  | 1.59  | 1.59   | ---           | PASS |
|            |      |      | 30~1000    | 1.59  | -56.05 | $\leq -28.41$ | PASS |
|            |      |      | 1000~26500 | 1.59  | -48.72 | $\leq -28.41$ | PASS |
|            | Ant2 | 2437 | Reference  | 1.86  | 1.86   | ---           | PASS |
|            |      |      | 30~1000    | 1.86  | -57.62 | $\leq -28.14$ | PASS |
|            |      |      | 1000~26500 | 1.86  | -48.74 | $\leq -28.14$ | PASS |
|            | Ant1 | 2462 | Reference  | 1.28  | 1.28   | ---           | PASS |
|            |      |      | 30~1000    | 1.28  | -57.79 | $\leq -28.72$ | PASS |
|            |      |      | 1000~26500 | 1.28  | -48.48 | $\leq -28.72$ | PASS |
| 11AX40MIMO | Ant2 | 2462 | Reference  | 2.61  | 2.61   | ---           | PASS |
|            |      |      | 30~1000    | 2.61  | -58.93 | $\leq -27.39$ | PASS |
|            |      |      | 1000~26500 | 2.61  | -49.36 | $\leq -27.39$ | PASS |
|            | Ant1 | 2422 | Reference  | -1.23 | -1.23  | ---           | PASS |
|            |      |      | 30~1000    | -1.23 | -57.37 | $\leq -31.23$ | PASS |
|            |      |      | 1000~26500 | -1.23 | -49.41 | $\leq -31.23$ | PASS |
|            | Ant2 | 2422 | Reference  | 0.25  | 0.25   | ---           | PASS |
|            |      |      | 30~1000    | 0.25  | -57.98 | $\leq -29.75$ | PASS |
|            |      |      | 1000~26500 | 0.25  | -48.72 | $\leq -29.75$ | PASS |
|            | Ant1 | 2437 | Reference  | 0.64  | 0.64   | ---           | PASS |
|            |      |      | 30~1000    | 0.64  | -57.47 | $\leq -29.36$ | PASS |
|            |      |      | 1000~26500 | 0.64  | -49.25 | $\leq -29.36$ | PASS |
|            | Ant2 | 2437 | Reference  | 3.73  | 3.73   | ---           | PASS |
|            |      |      | 30~1000    | 3.73  | -58.1  | $\leq -26.27$ | PASS |
|            |      |      | 1000~26500 | 3.73  | -49.55 | $\leq -26.27$ | PASS |
|            | Ant1 | 2452 | Reference  | -0.11 | -0.11  | ---           | PASS |
|            |      |      | 30~1000    | -0.11 | -57.09 | $\leq -30.11$ | PASS |
|            |      |      | 1000~26500 | -0.11 | -48.68 | $\leq -30.11$ | PASS |
|            | Ant2 | 2452 | Reference  | 3.61  | 3.61   | ---           | PASS |
|            |      |      | 30~1000    | 3.61  | -58.91 | $\leq -26.39$ | PASS |
|            |      |      | 1000~26500 | 3.61  | -49.09 | $\leq -26.39$ | PASS |

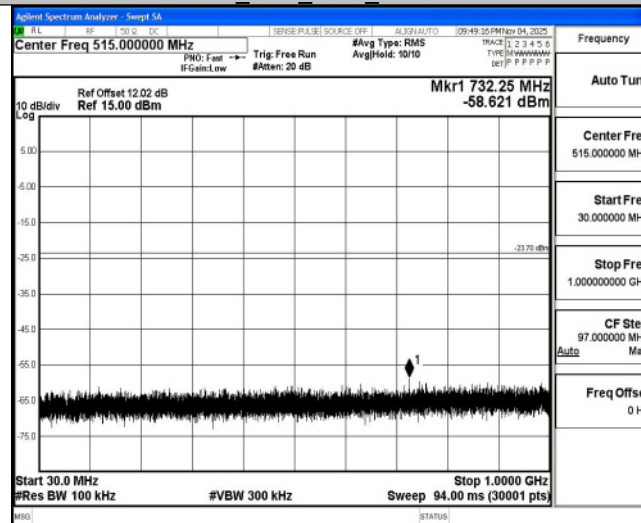


## Test Graphs

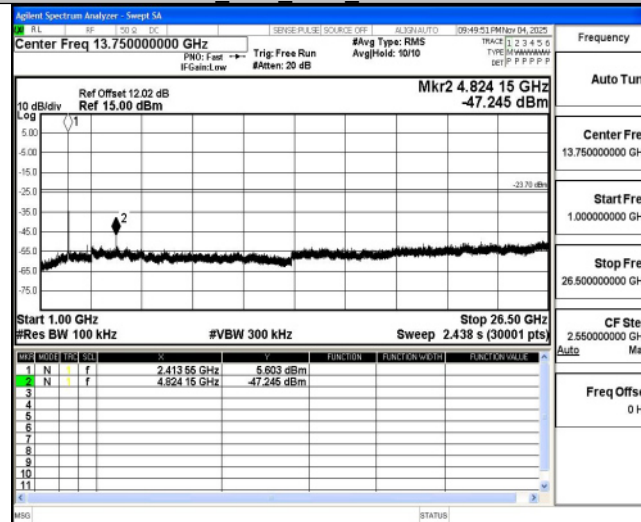
11B\_Ant1\_2412\_0~Reference



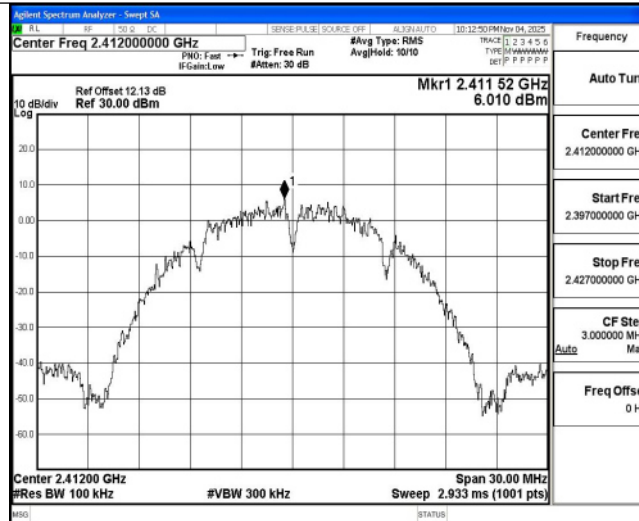
11B\_Ant1\_2412\_30~1000



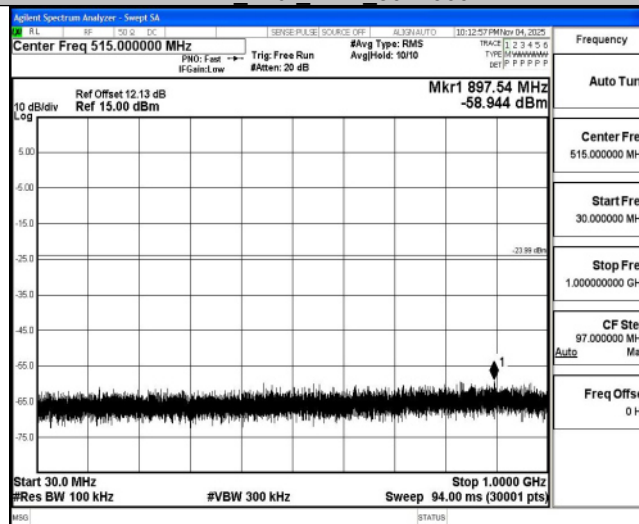
11B\_Ant1\_2412\_1000~26500



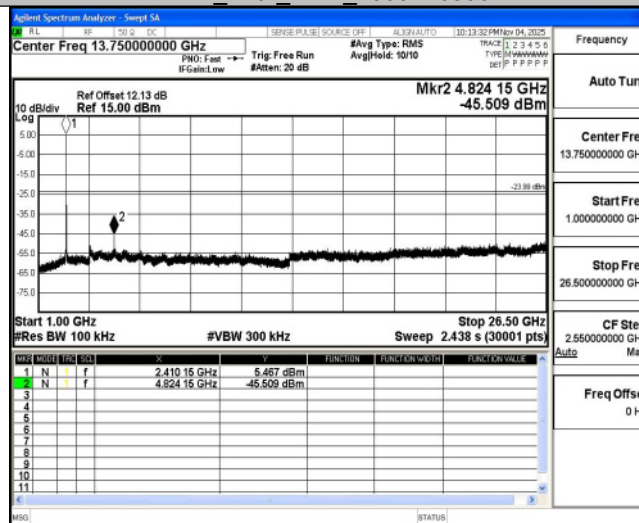
11B\_Ant2\_2412\_0~Reference



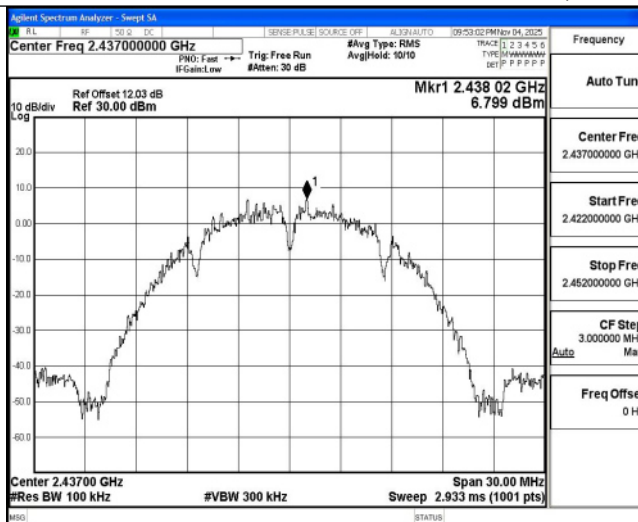
11B\_Ant2\_2412\_30~1000



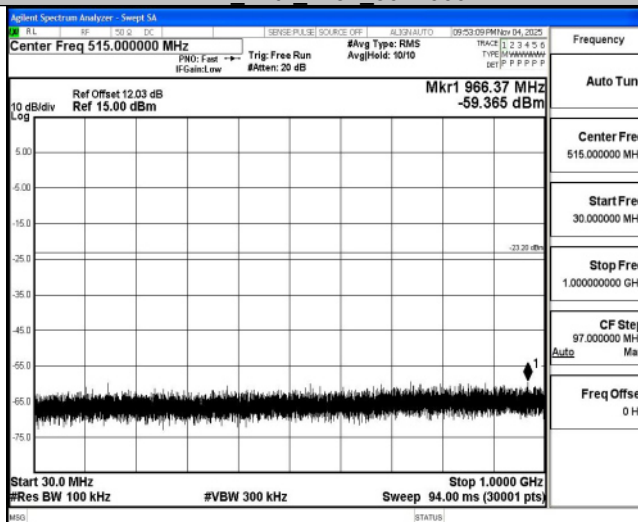
11B\_Ant2\_2412\_1000~26500



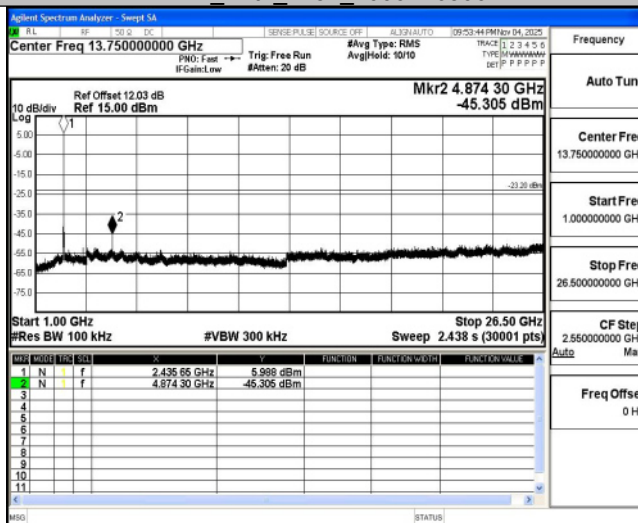
11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



11B\_Ant1\_2437\_1000~26500



11B\_Ant2\_2437\_0~Reference