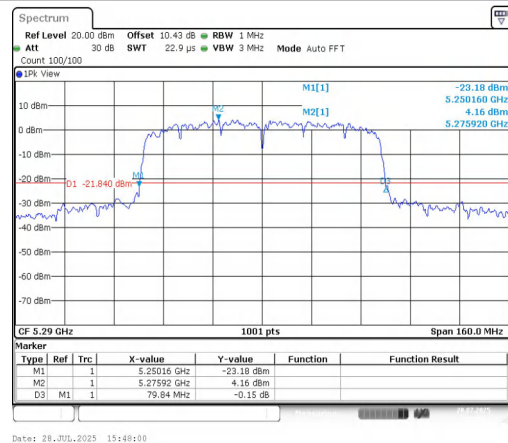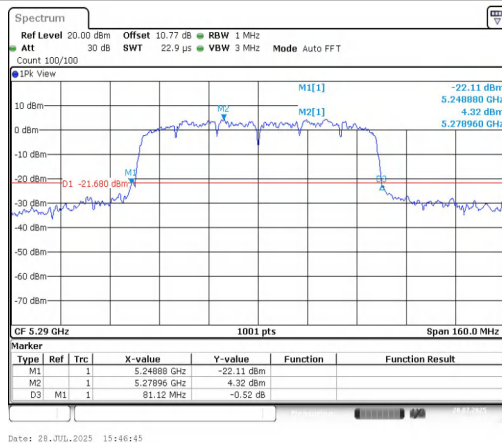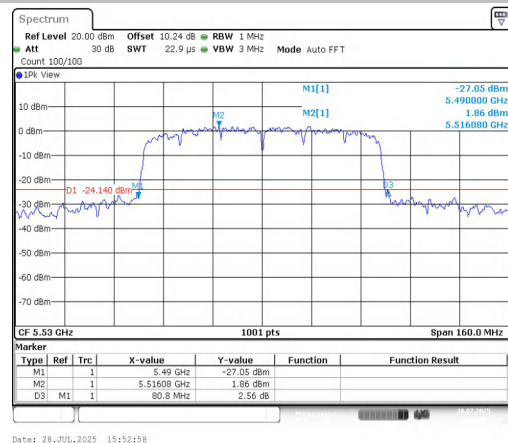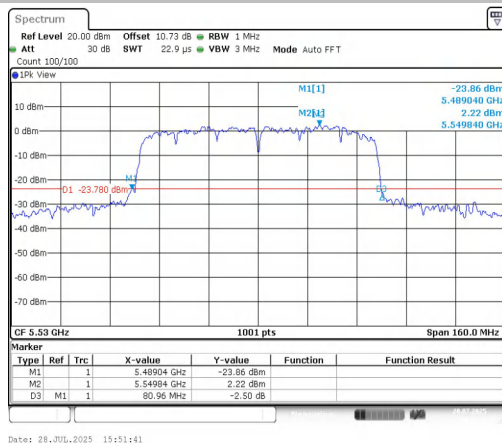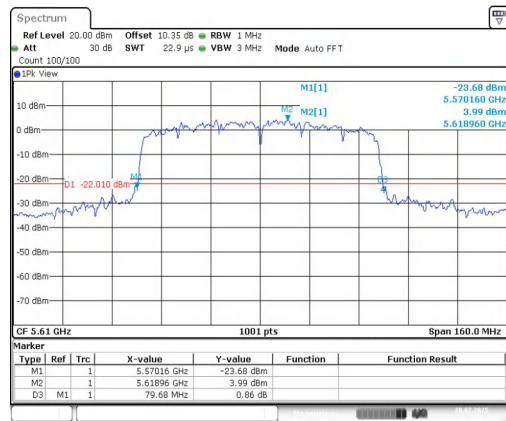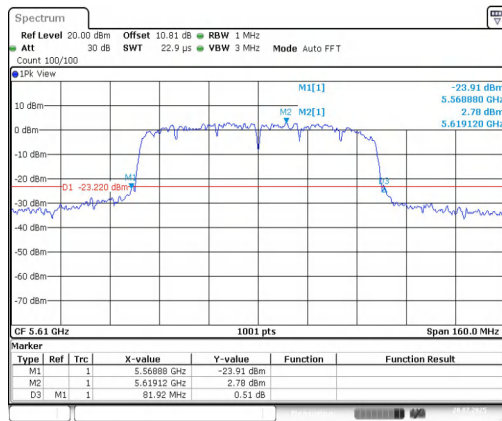11AC80MIMO-Ant1-5210



11AC80MIMO-Ant2-5210



11AC80MIMO-Ant1-5290
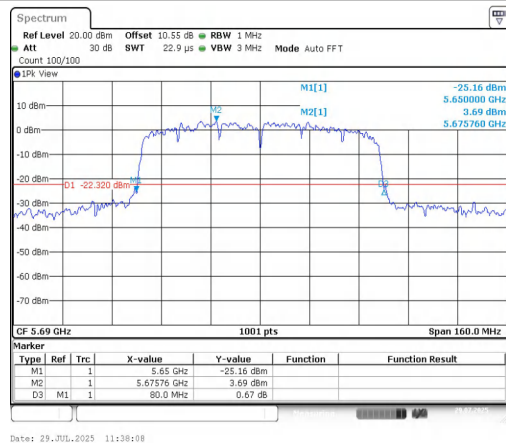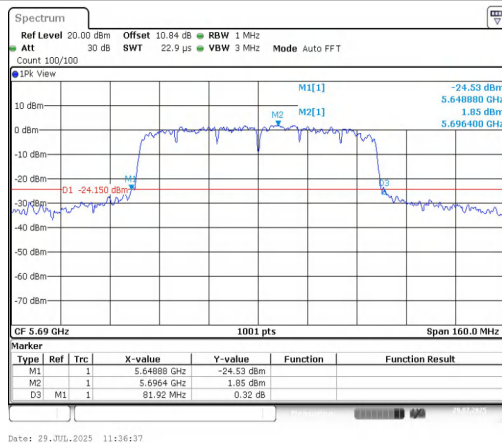


11AC80MIMO-Ant2-5290



11AC80MIMO-Ant1-5530



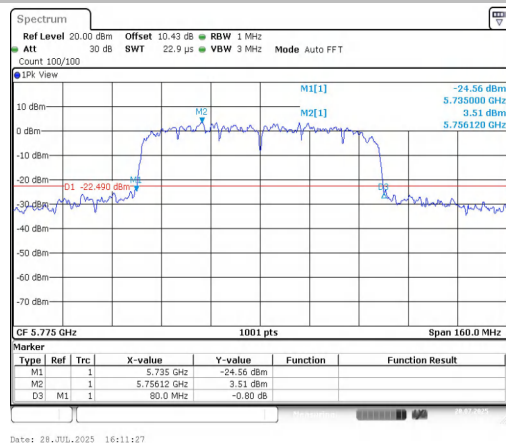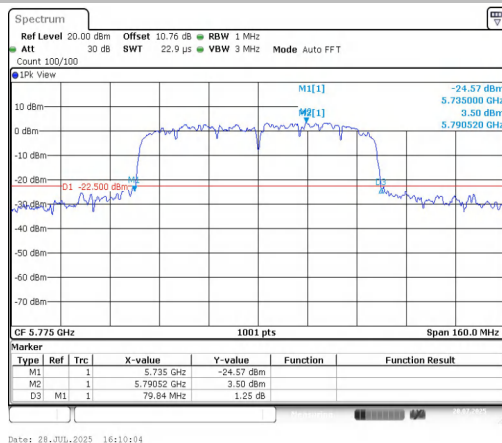11AC80MIMO-Ant2-5530

11AC80MIMO-Ant1-5610



11AC80MIMO-Ant2-5610



11AC80MIMO-Ant1-5690



11AC80MIMO-Ant2-5690



11AC80MIMO-Ant1-5775



11AC80MIMO-Ant2-5775

## Appendix A2: Occupied channel bandwidth

### Test Result

| Test Mode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A-CDD | Ant1 | 5180 | 16.543 | 5171.7283 | 5188.2717 | --- | --- |
| 11A-CDD | Ant2 | 5180 | 16.503 | 5171.7682 | 5188.2717 | --- | --- |
| 11A-CDD | Ant1 | 5200 | 16.623 | 5191.6084 | 5208.2318 | --- | --- |
| 11A-CDD | Ant2 | 5200 | 16.663 | 5191.6484 | 5208.3117 | --- | --- |
| 11A-CDD | Ant1 | 5240 | 16.583 | 5231.6484 | 5248.2318 | --- | --- |
| 11A-CDD | Ant2 | 5240 | 16.503 | 5231.7283 | 5248.2318 | --- | --- |
| 11A-CDD | Ant1 | 5260 | 16.663 | 5251.6883 | 5268.3516 | --- | --- |
| 11A-CDD | Ant2 | 5260 | 16.583 | 5251.6883 | 5268.2717 | --- | --- |
| 11A-CDD | Ant1 | 5280 | 16.583 | 5271.6883 | 5288.2717 | --- | --- |
| 11A-CDD | Ant2 | 5280 | 16.583 | 5271.6883 | 5288.2717 | --- | --- |
| 11A-CDD | Ant1 | 5320 | 16.703 | 5311.6484 | 5328.3516 | --- | --- |
| 11A-CDD | Ant2 | 5320 | 16.543 | 5311.6883 | 5328.2318 | --- | --- |
| 11A-CDD | Ant1 | 5500 | 16.543 | 5491.7283 | 5508.2717 | --- | --- |
| 11A-CDD | Ant2 | 5500 | 16.583 | 5491.6883 | 5508.2717 | --- | --- |
| 11A-CDD | Ant1 | 5580 | 16.703 | 5571.6084 | 5588.3117 | --- | --- |
| 11A-CDD | Ant2 | 5580 | 16.623 | 5571.6883 | 5588.3117 | --- | --- |
| 11A-CDD | Ant1 | 5700 | 16.663 | 5691.6484 | 5708.3117 | --- | --- |
| 11A-CDD | Ant2 | 5700 | 16.543 | 5691.6883 | 5708.2318 | --- | --- |
| 11A-CDD | Ant1 | 5720 | 16.703 | 5711.6084 | 5728.3117 | --- | --- |
| 11A-CDD | Ant2 | 5720 | 16.623 | 5711.6484 | 5728.2717 | --- | --- |
| 11A-CDD | Ant1 | 5720_UNII-2C | 13.392 | 5711.6084 | 5725 | --- | --- |
| 11A-CDD | Ant2 | 5720_UNII-2C | 13.352 | 5711.6484 | 5725 | --- | --- |
| 11A-CDD | Ant1 | 5720_UNII-3 | 3.312 | 5725 | 5728.3117 | --- | --- |
| 11A-CDD | Ant2 | 5720_UNII-3 | 3.272 | 5725 | 5728.2717 | --- | --- |
| 11A-CDD | Ant1 | 5745 | 16.583 | 5736.7283 | 5753.3117 | --- | --- |
| 11A-CDD | Ant2 | 5745 | 16.543 | 5736.7283 | 5753.2717 | --- | --- |
| 11A-CDD | Ant1 | 5785 | 16.703 | 5776.6484 | 5793.3516 | --- | --- |
| 11A-CDD | Ant2 | 5785 | 16.623 | 5776.6484 | 5793.2717 | --- | --- |
| 11A-CDD | Ant1 | 5825 | 16.623 | 5816.6883 | 5833.3117 | --- | --- |
| 11A-CDD | Ant2 | 5825 | 16.583 | 5816.7283 | 5833.3117 | --- | --- |
| 11AC20MIMO | Ant1 | 5180 | 17.702 | 5171.1289 | 5188.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5180 | 17.662 | 5171.1688 | 5188.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5200 | 17.742 | 5191.0889 | 5208.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5200 | 17.742 | 5191.1289 | 5208.8711 | --- | --- |
| 11AC20MIMO | Ant1 | 5240 | 17.702 | 5231.0889 | 5248.7912 | --- | --- |
| 11AC20MIMO | Ant2 | 5240 | 17.742 | 5231.1289 | 5248.8711 | --- | --- |
| 11AC20MIMO | Ant1 | 5260 | 17.702 | 5251.1289 | 5268.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5260 | 17.822 | 5251.0889 | 5268.9111 | --- | --- |

| 11AC20MIMO | Ant1 | 5280 | 17.662 | 5271.1289 | 5288.7912 | --- | --- |
| 11AC20MIMO | Ant2 | 5280 | 17.742 | 5271.1289 | 5288.8711 | --- | --- |
| 11AC20MIMO | Ant1 | 5320 | 17.742 | 5311.0889 | 5328.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5320 | 17.702 | 5311.1289 | 5328.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5500 | 17.662 | 5491.1688 | 5508.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5500 | 17.662 | 5491.2088 | 5508.8711 | --- | --- |
| 11AC20MIMO | Ant1 | 5580 | 17.742 | 5571.0889 | 5588.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5580 | 17.742 | 5571.1289 | 5588.8711 | --- | --- |
| 11AC20MIMO | Ant1 | 5700 | 17.742 | 5691.0889 | 5708.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5700 | 17.702 | 5691.1289 | 5708.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5720 | 17.742 | 5711.0889 | 5728.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5720 | 17.742 | 5711.0889 | 5728.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5720_UNII-2C | 13.911 | 5711.0889 | 5725 | --- | --- |
| 11AC20MIMO | Ant2 | 5720_UNII-2C | 13.911 | 5711.0889 | 5725 | --- | --- |
| 11AC20MIMO | Ant1 | 5720_UNII-3 | 3.831 | 5725 | 5728.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5720_UNII-3 | 3.831 | 5725 | 5728.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5745 | 17.702 | 5736.1289 | 5753.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5745 | 17.662 | 5736.1688 | 5753.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5785 | 17.702 | 5776.1289 | 5793.8312 | --- | --- |
| 11AC20MIMO | Ant2 | 5785 | 17.702 | 5776.1289 | 5793.8312 | --- | --- |
| 11AC20MIMO | Ant1 | 5825 | 17.782 | 5816.0889 | 5833.8711 | --- | --- |
| 11AC20MIMO | Ant2 | 5825 | 17.702 | 5816.1289 | 5833.8312 | --- | --- |
| 11AC40MIMO | Ant1 | 5190 | 36.124 | 5171.8581 | 5207.9820 | --- | --- |
| 11AC40MIMO | Ant2 | 5190 | 36.044 | 5171.9381 | 5207.9820 | --- | --- |
| 11AC40MIMO | Ant1 | 5230 | 36.124 | 5211.9381 | 5248.0619 | --- | --- |
| 11AC40MIMO | Ant2 | 5230 | 36.044 | 5211.9381 | 5247.9820 | --- | --- |
| 11AC40MIMO | Ant1 | 5270 | 36.204 | 5251.8581 | 5288.0619 | --- | --- |
| 11AC40MIMO | Ant2 | 5270 | 36.284 | 5251.7782 | 5288.0619 | --- | --- |
| 11AC40MIMO | Ant1 | 5310 | 36.523 | 5291.6983 | 5328.2218 | --- | --- |
| 11AC40MIMO | Ant2 | 5310 | 36.124 | 5291.9381 | 5328.0619 | --- | --- |
| 11AC40MIMO | Ant1 | 5510 | 36.124 | 5491.9381 | 5528.0619 | --- | --- |
| 11AC40MIMO | Ant2 | 5510 | 36.044 | 5491.9381 | 5527.9820 | --- | --- |
| 11AC40MIMO | Ant1 | 5550 | 36.204 | 5531.8581 | 5568.0619 | --- | --- |
| 11AC40MIMO | Ant2 | 5550 | 36.124 | 5531.9381 | 5568.0619 | --- | --- |
| 11AC40MIMO | Ant1 | 5670 | 36.204 | 5651.8581 | 5688.0619 | --- | --- |
| 11AC40MIMO | Ant2 | 5670 | 36.124 | 5651.8581 | 5687.9820 | --- | --- |
| 11AC40MIMO | Ant1 | 5710 | 36.204 | 5691.7782 | 5727.9820 | --- | --- |
| 11AC40MIMO | Ant2 | 5710 | 36.124 | 5691.7782 | 5727.9021 | --- | --- |
| 11AC40MIMO | Ant1 | 5710_UNII-2C | 33.222 | 5691.7782 | 5725 | --- | --- |
| 11AC40MIMO | Ant2 | 5710_UNII-2C | 33.222 | 5691.7782 | 5725 | --- | --- |
| 11AC40MIMO | Ant1 | 5710_UNII-3 | 2.982 | 5725 | 5727.9820 | --- | --- |
| 11AC40MIMO | Ant2 | 5710_UNII-3 | 2.902 | 5725 | 5727.9021 | --- | --- |

| 11AC40MIMO | Ant1 | 5755 | 36.444 | 5736.6184 | 5773.0619 | --- | --- |
|---|---|---|---|---|---|---|---|
| 11AC40MIMO | Ant2 | 5755 | 36.204 | 5736.7782 | 5772.9820 | --- | --- |
| 11AC40MIMO | Ant1 | 5795 | 36.124 | 5776.8581 | 5812.9820 | --- | --- |
| 11AC40MIMO | Ant2 | 5795 | 36.124 | 5776.8581 | 5812.9820 | --- | --- |
| 11AC80MIMO | Ant1 | 5210 | 74.645 | 5172.7572 | 5247.4026 | --- | --- |
| 11AC80MIMO | Ant2 | 5210 | 74.805 | 5172.7572 | 5247.5624 | --- | --- |
| 11AC80MIMO | Ant1 | 5290 | 74.805 | 5252.5974 | 5327.4026 | --- | --- |
| 11AC80MIMO | Ant2 | 5290 | 74.326 | 5252.9171 | 5327.2428 | --- | --- |
| 11AC80MIMO | Ant1 | 5530 | 74.965 | 5492.5974 | 5567.5624 | --- | --- |
| 11AC80MIMO | Ant2 | 5530 | 74.645 | 5492.5974 | 5567.2428 | --- | --- |
| 11AC80MIMO | Ant1 | 5610 | 74.805 | 5572.5974 | 5647.4026 | --- | --- |
| 11AC80MIMO | Ant2 | 5610 | 74.645 | 5572.5974 | 5647.2428 | --- | --- |
| 11AC80MIMO | Ant1 | 5690 | 75.285 | 5652.2777 | 5727.5624 | --- | --- |
| 11AC80MIMO | Ant2 | 5690 | 74.805 | 5652.5974 | 5727.4026 | --- | --- |
| 11AC80MIMO | Ant1 | 5690_UNII-2C | 72.722 | 5652.2777 | 5725 | --- | --- |
| 11AC80MIMO | Ant2 | 5690_UNII-2C | 72.403 | 5652.5974 | 5725 | --- | --- |
| 11AC80MIMO | Ant1 | 5690_UNII-3 | 2.562 | 5725 | 5727.5624 | --- | --- |
| 11AC80MIMO | Ant2 | 5690_UNII-3 | 2.403 | 5725 | 5727.4026 | --- | --- |
| 11AC80MIMO | Ant1 | 5775 | 74.805 | 5737.4376 | 5812.2428 | --- | --- |
| 11AC80MIMO | Ant2 | 5775 | 74.805 | 5737.2777 | 5812.0829 | --- | --- |

## Test Graphs
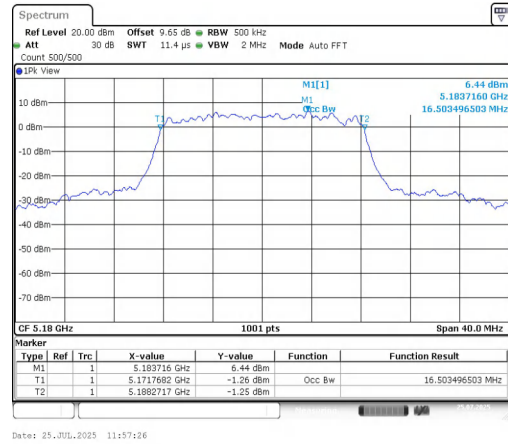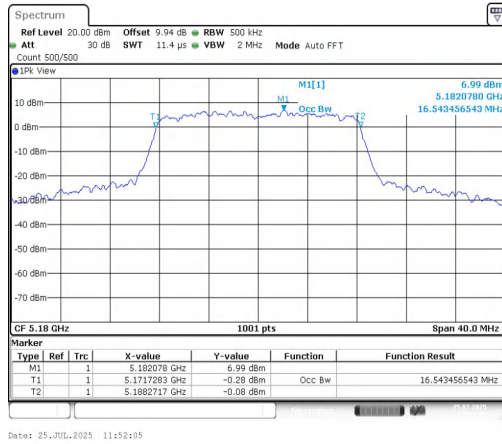


11A-CDD-Ant1-5180



11A-CDD-Ant2-5180
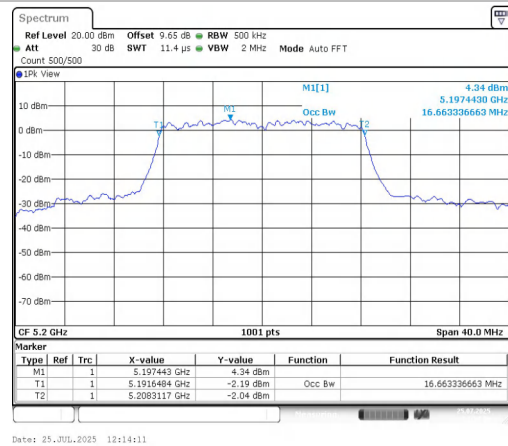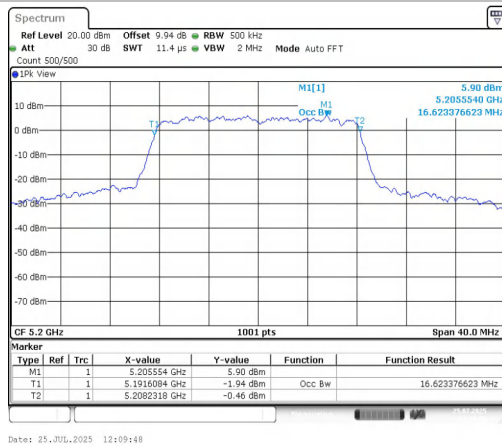


11A-CDD-Ant1-5200



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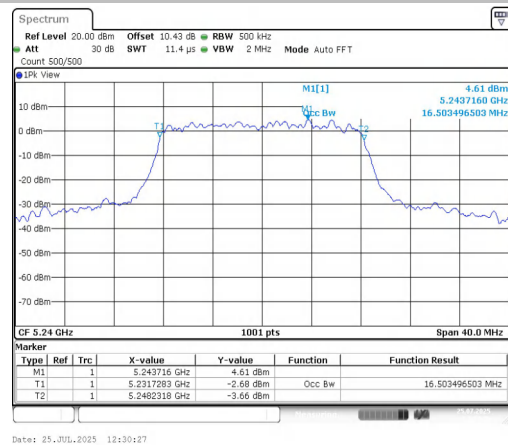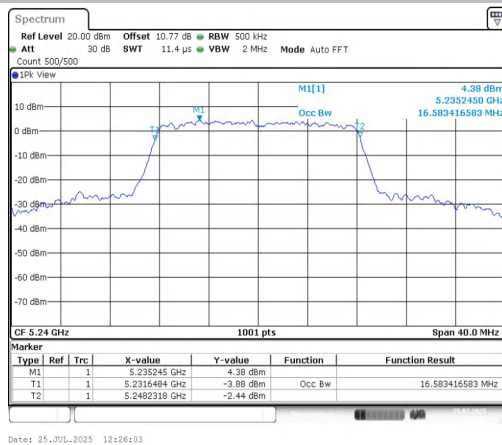


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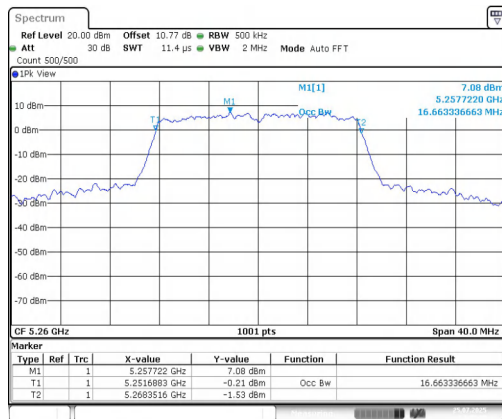
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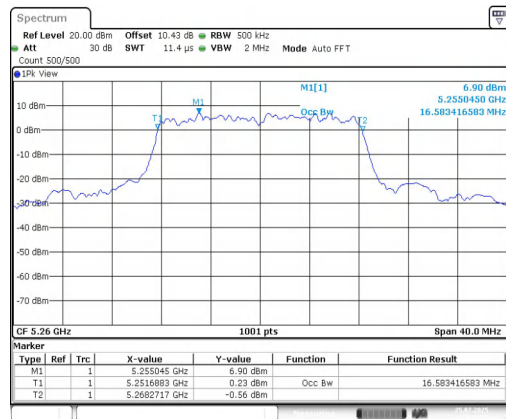


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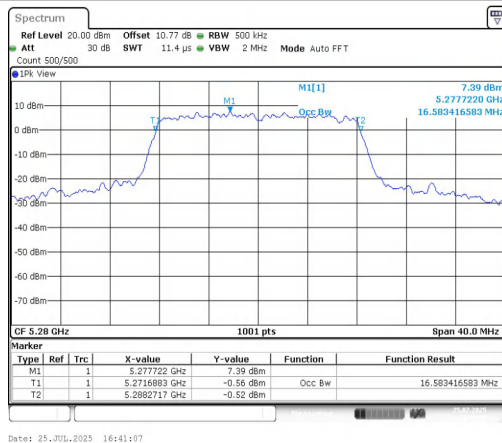


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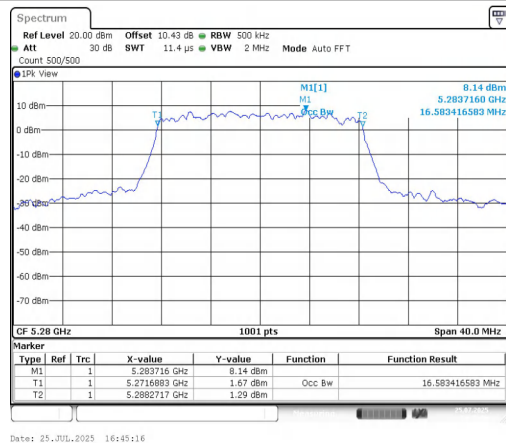


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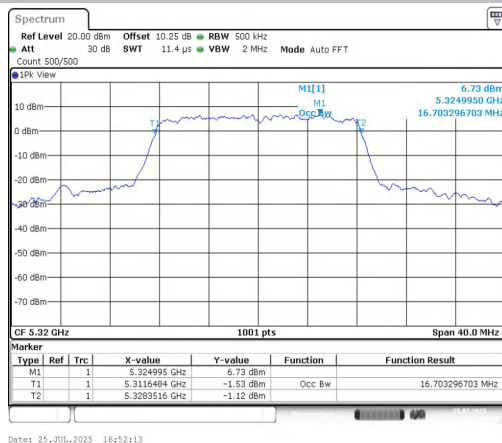


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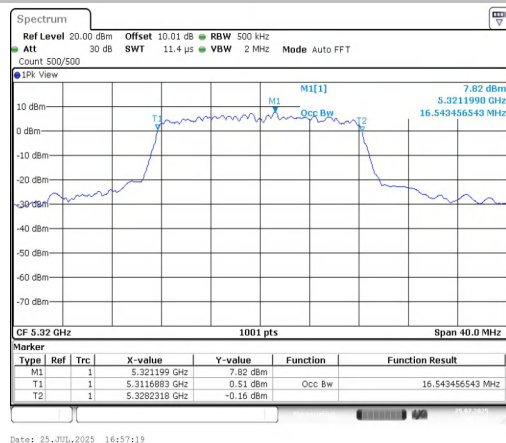


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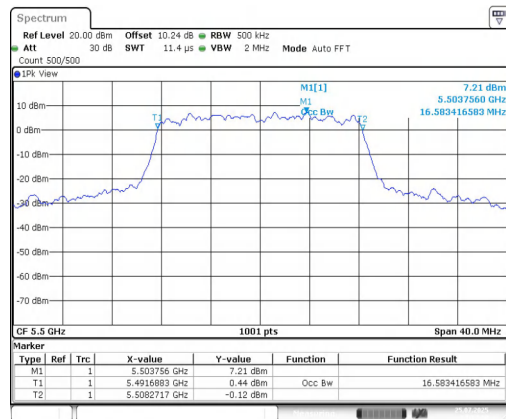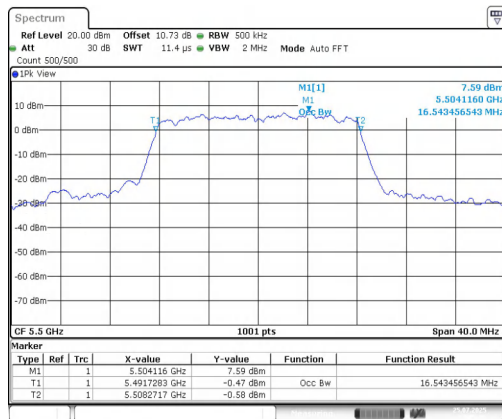
11A-CDD-Ant1-5500



11A-CDD-Ant2-5500
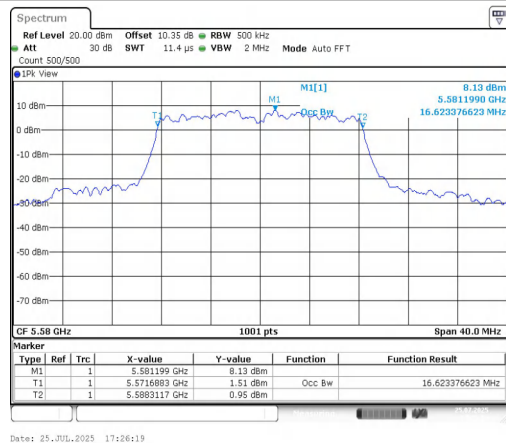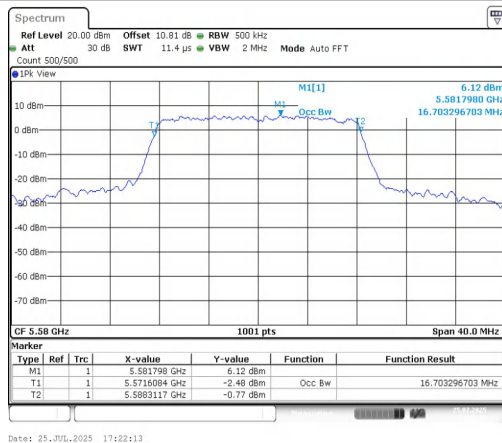


11A-CDD-Ant1-5580



11A-CDD-Ant2-5580
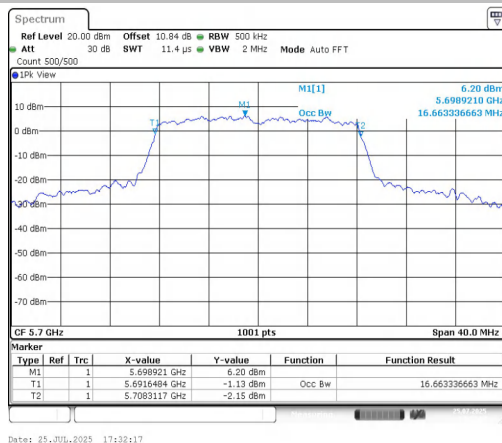


11A-CDD-Ant1-5700



11A-CDD-Ant2-5700
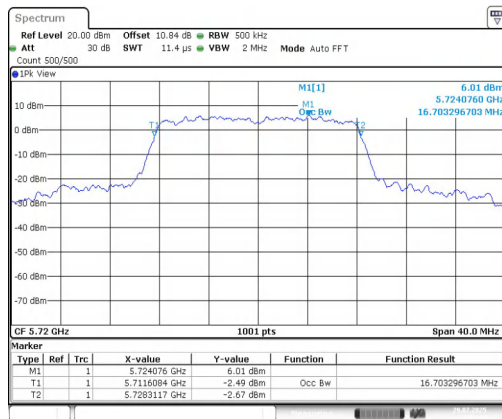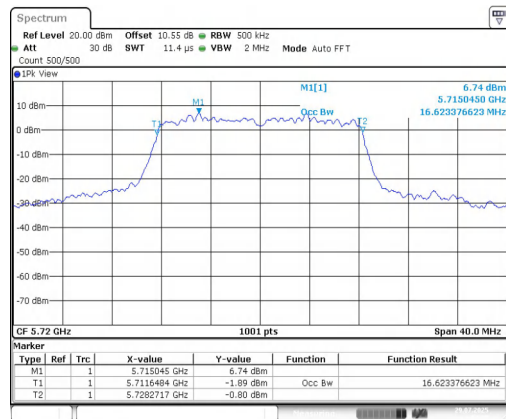
| 11A-CDD-Ant1-5720 | 11A-CDD-Ant2-5720 |
|---|---|



| 11A-CDD-Ant1-5745 | 11A-CDD-Ant2-5745 |
|---|---|



| 11A-CDD-Ant1-5785 | 11A-CDD-Ant2-5785 |
|---|---|
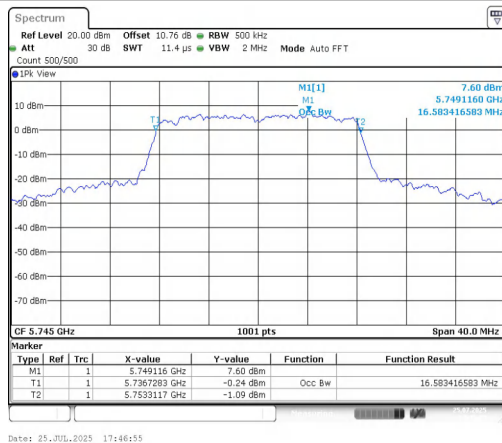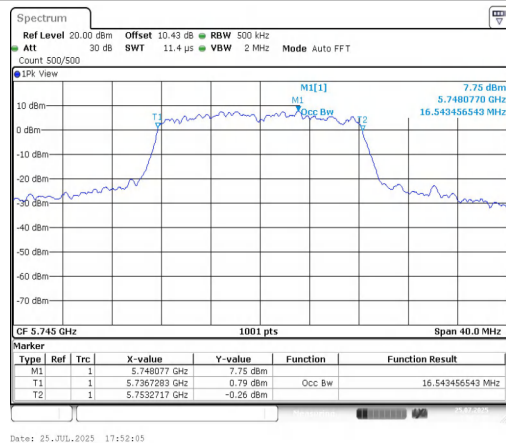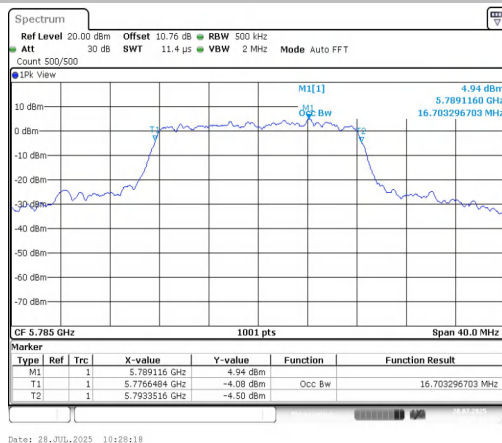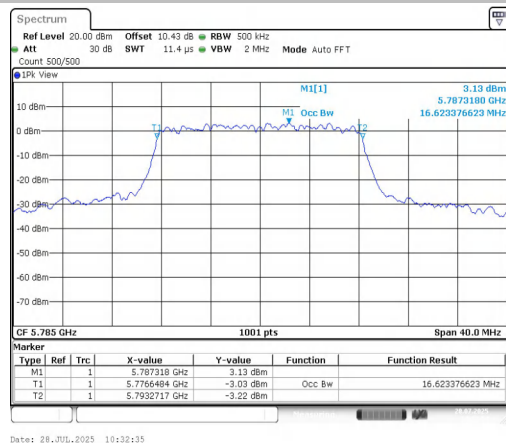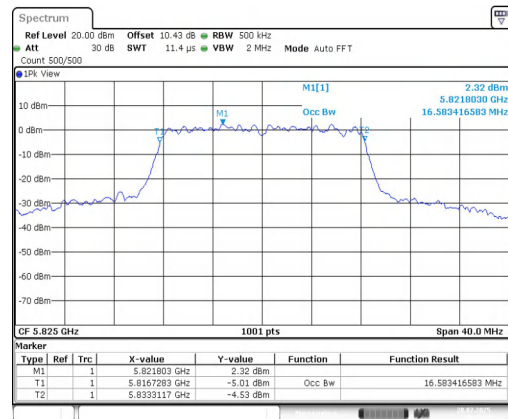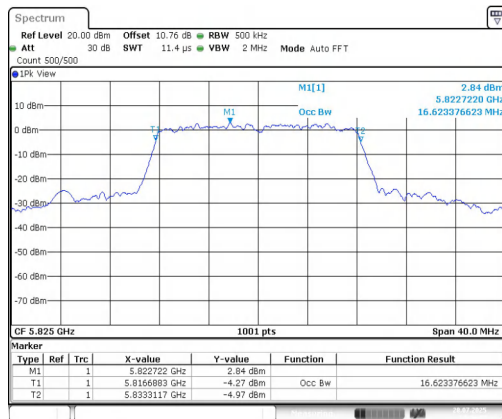
11A-CDD-Ant1-5825



11A-CDD-Ant2-5825
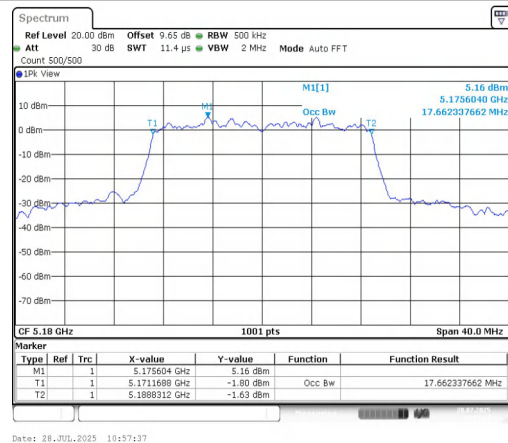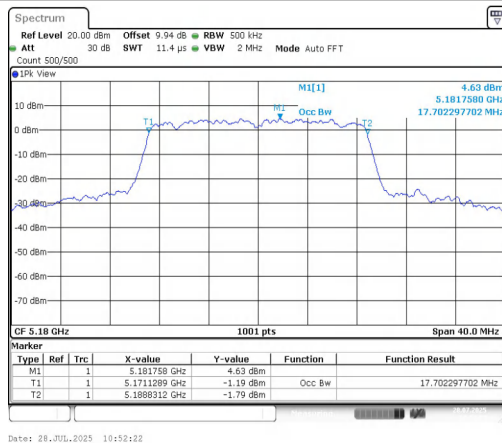


11AC20MIMO-Ant1-5180



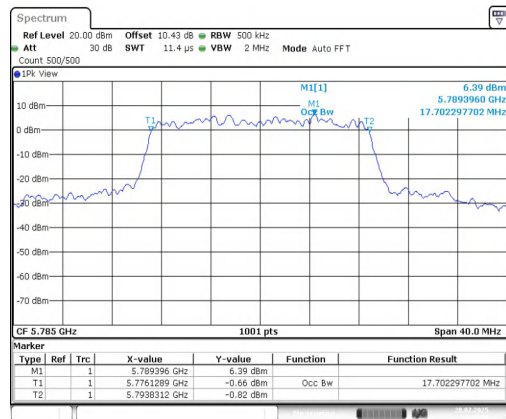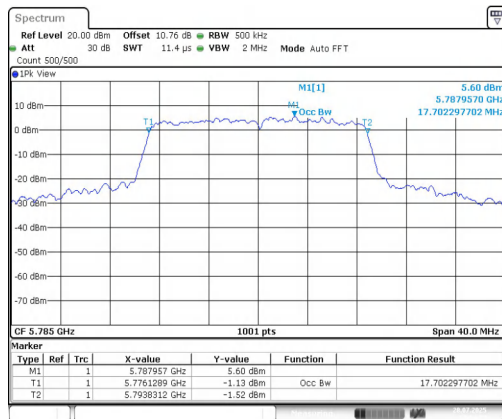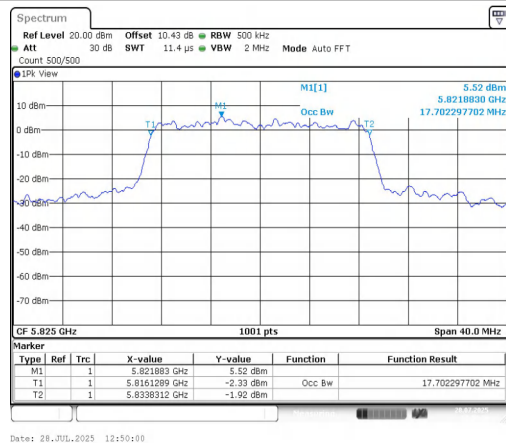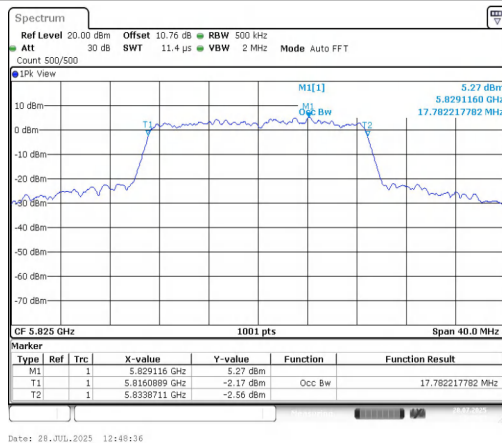11AC20MIMO-Ant2-5180
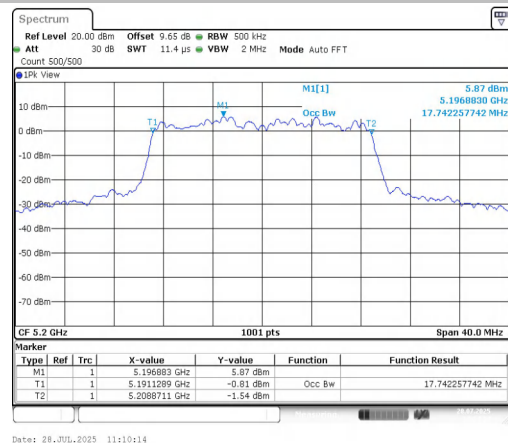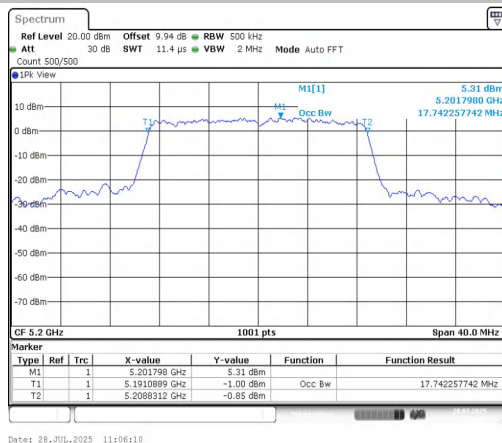


11AC20MIMO-Ant1-5200



11AC20MIMO-Ant2-5200
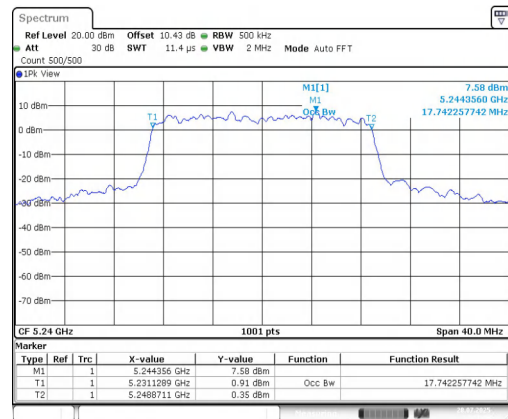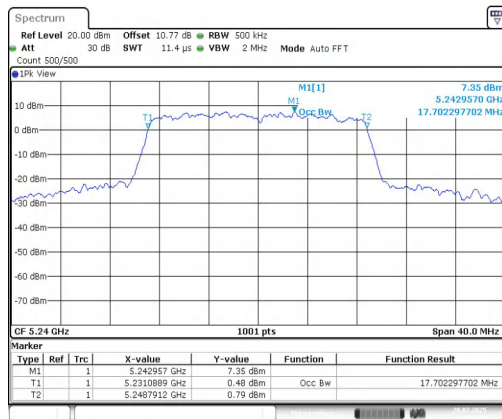
11AC20MIMO-Ant1-5240



11AC20MIMO-Ant2-5240
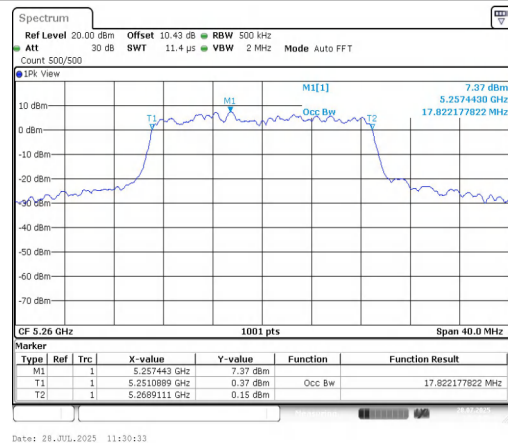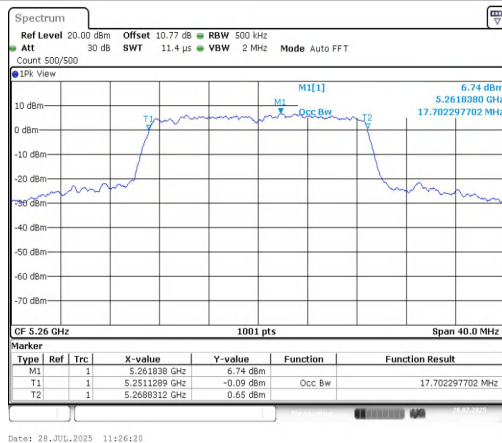


11AC20MIMO-Ant1-5260



11AC20MIMO-Ant2-5260
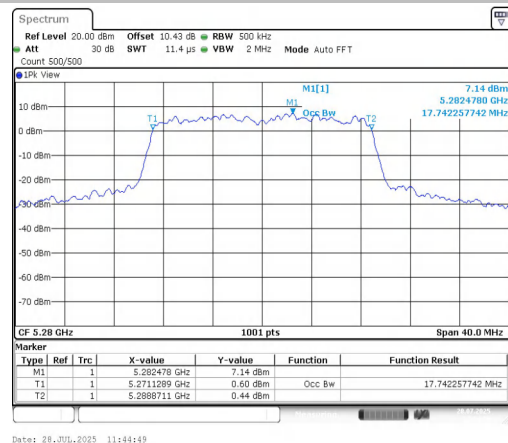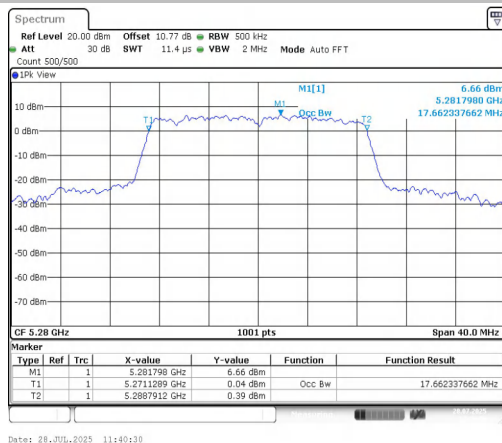


11AC20MIMO-Ant1-5280



11AC20MIMO-Ant2-5280
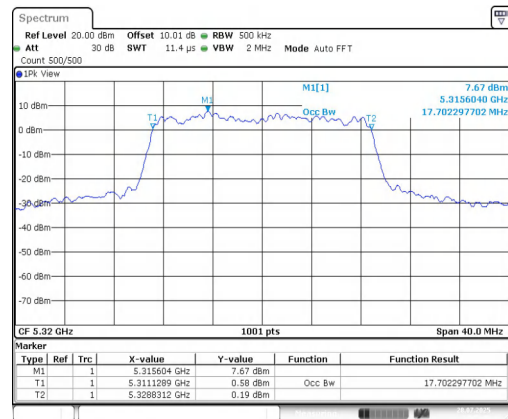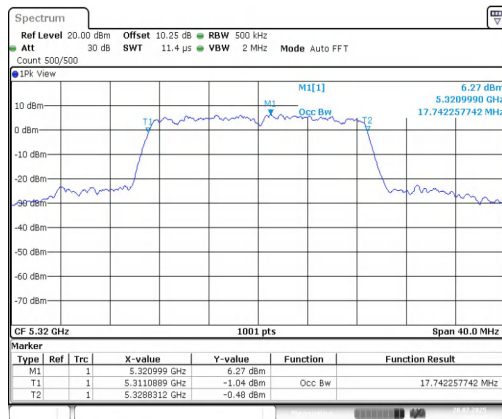
11AC20MIMO-Ant1-5320



11AC20MIMO-Ant2-5320
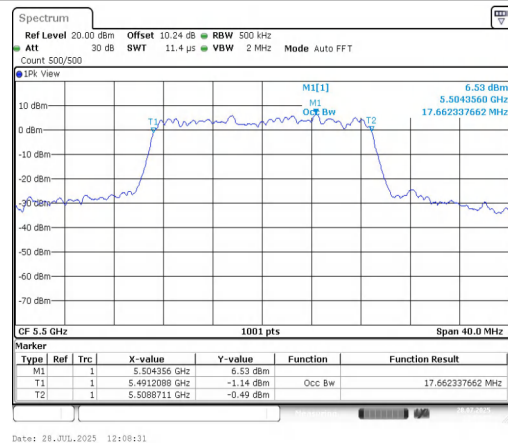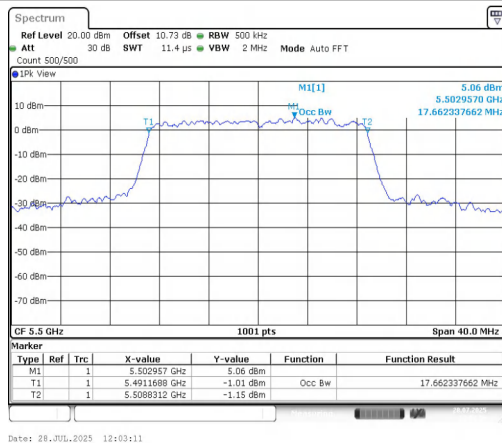


11AC20MIMO-Ant1-5500



11AC20MIMO-Ant2-5500
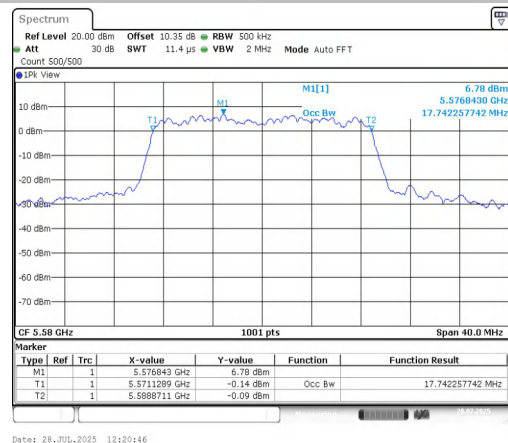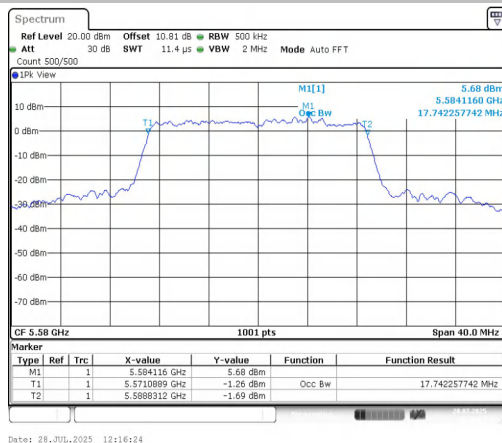


11AC20MIMO-Ant1-5580



11AC20MIMO-Ant2-5580
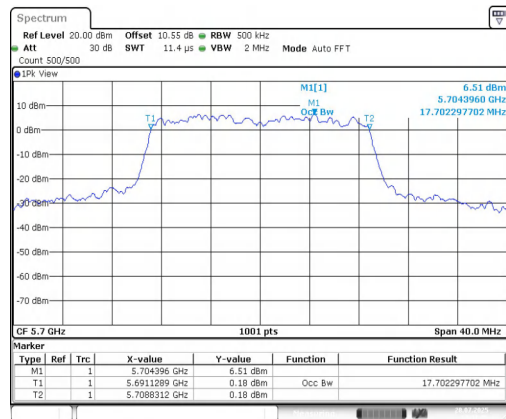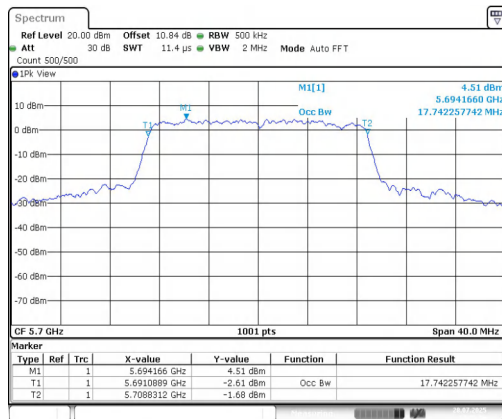
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11AC20MIMO-Ant2-5700
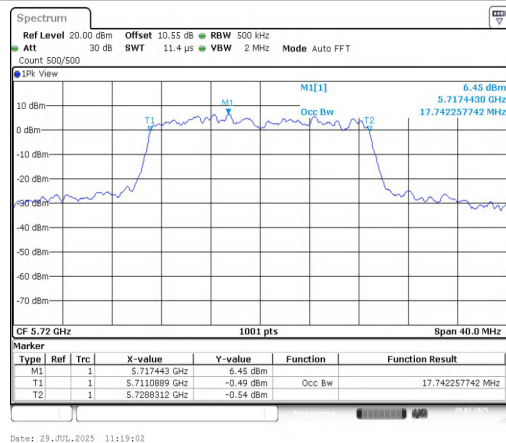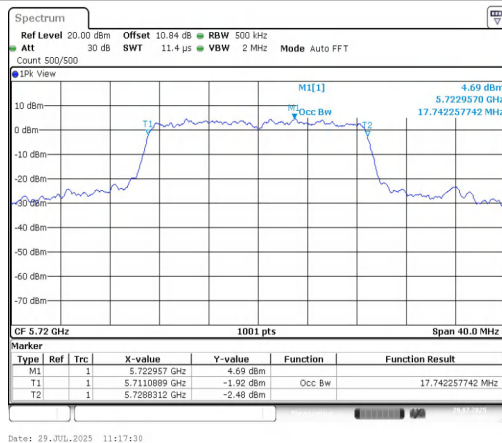


11AC20MIMO-Ant1-5720



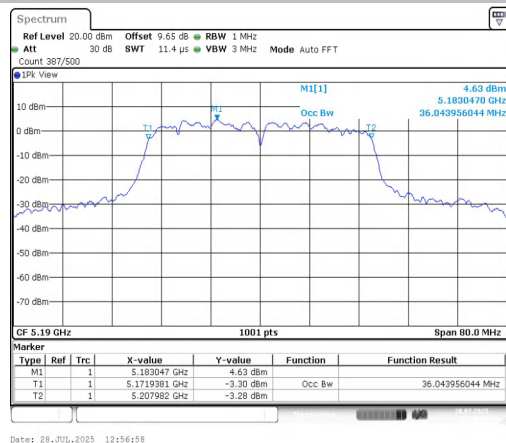11AC20MIMO-Ant2-5720
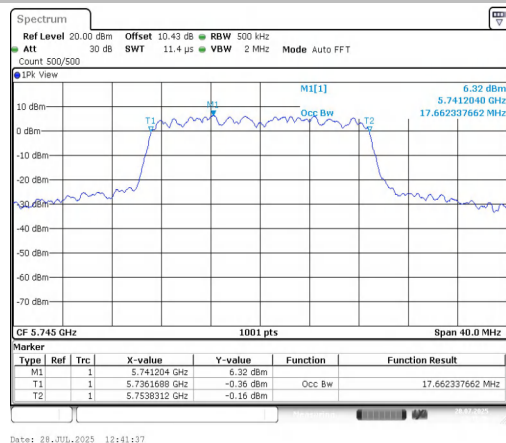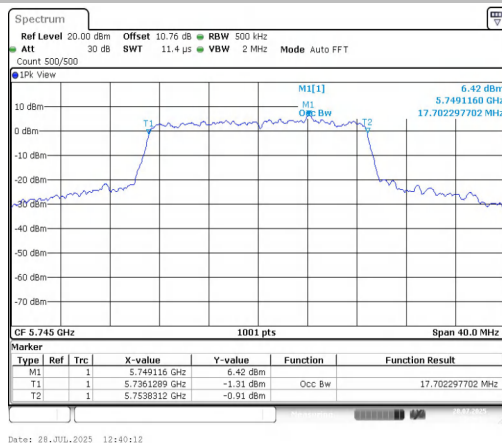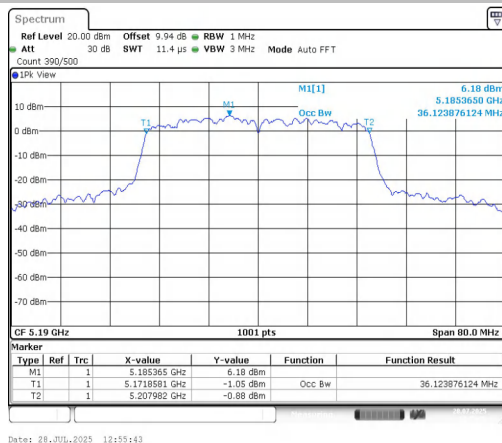


11AC20MIMO-Ant1-5745



11AC20MIMO-Ant2-5745
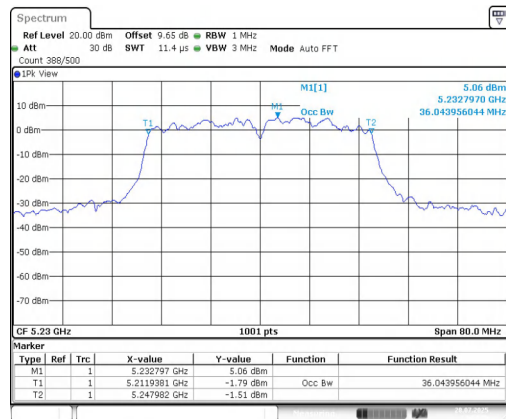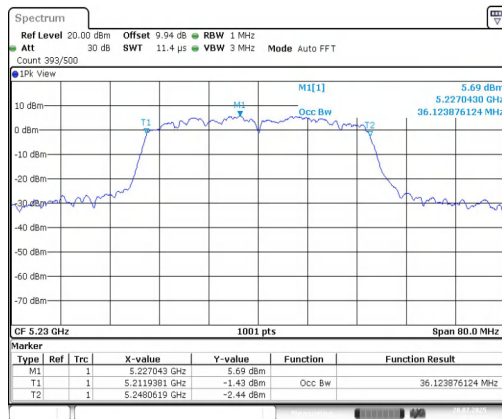
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11AC20MIMO-Ant2-5785



11AC20MIMO-Ant1-5825
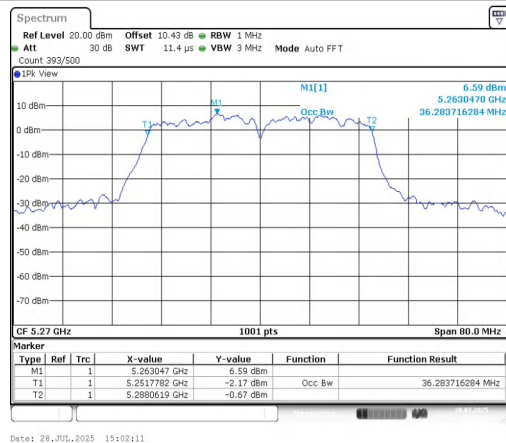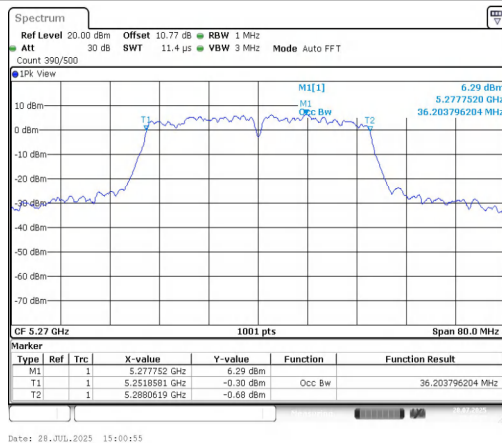


11AC20MIMO-Ant2-5825



11AC40MIMO-Ant1-5190
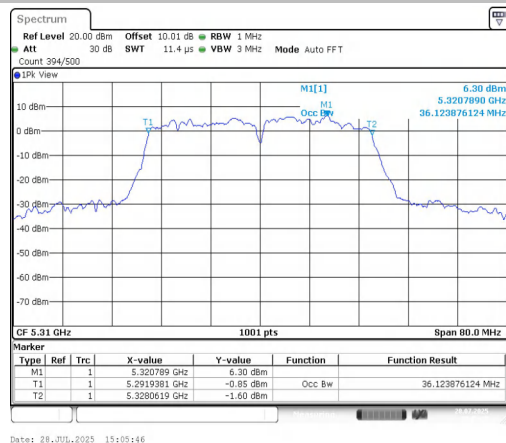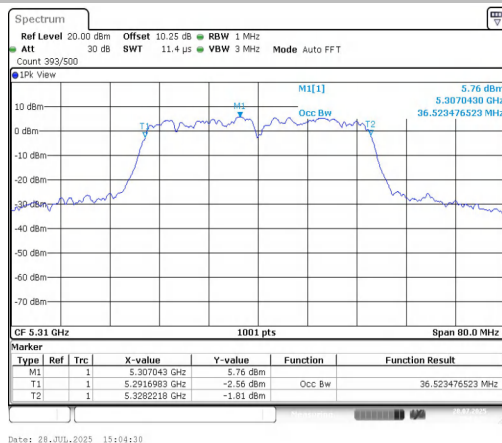


11AC40MIMO-Ant2-5190

11AC40MIMO-Ant1-5230



11AC40MIMO-Ant2-5230



11AC40MIMO-Ant1-5270



11AC40MIMO-Ant2-5270



11AC40MIMO-Ant1-5310



11AC40MIMO-Ant2-5310