## 13.2. Appendix A2: Occupied channel bandwidth

### 13.2.1. Test Result

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 16.615 | 5171.698 | 5188.313 | PASS |
| | Ant2 | 5180 | 16.525 | 5171.683 | 5188.208 | PASS |
| | Ant1 | 5200 | 16.563 | 5191.680 | 5208.243 | PASS |
| | Ant2 | 5200 | 16.533 | 5191.685 | 5208.218 | PASS |
| | Ant1 | 5240 | 16.722 | 5231.670 | 5248.392 | PASS |
| | Ant2 | 5240 | 16.535 | 5231.728 | 5248.263 | PASS |
| | Ant1 | 5260 | 16.725 | 5251.609 | 5268.334 | PASS |
| | Ant2 | 5260 | 16.603 | 5251.657 | 5268.260 | PASS |
| | Ant1 | 5280 | 16.685 | 5271.655 | 5288.340 | PASS |
| | Ant2 | 5280 | 16.785 | 5271.642 | 5288.427 | PASS |
| | Ant1 | 5320 | 16.718 | 5311.619 | 5328.337 | PASS |
| | Ant2 | 5320 | 16.536 | 5311.734 | 5328.270 | PASS |
| | Ant1 | 5500 | 16.564 | 5491.671 | 5508.235 | PASS |
| | Ant2 | 5500 | 16.773 | 5491.675 | 5508.448 | PASS |
| | Ant1 | 5580 | 16.605 | 5571.730 | 5588.335 | PASS |
| | Ant2 | 5580 | 16.536 | 5571.699 | 5588.235 | PASS |
| | Ant1 | 5700 | 16.635 | 5691.691 | 5708.326 | PASS |
| | Ant2 | 5700 | 16.584 | 5691.745 | 5708.329 | PASS |
| | Ant1 | 5720 | 16.619 | 5711.677 | 5728.296 | PASS |
| | Ant2 | 5720 | 16.550 | 5711.749 | 5728.299 | PASS |
| | Ant1 | 5720_UNII-2C | 13.323 | 5711.677 | 5725 | PASS |
| | Ant2 | 5720_UNII-2C | 13.251 | 5711.749 | 5725 | PASS |
| | Ant1 | 5720_UNII-3 | 3.296 | 5725 | 5728.296 | PASS |
| | Ant2 | 5720_UNII-3 | 3.299 | 5725 | 5728.299 | PASS |
| | Ant1 | 5745 | 16.511 | 5736.776 | 5753.287 | PASS |
| | Ant2 | 5745 | 16.685 | 5736.703 | 5753.388 | PASS |
| | Ant1 | 5785 | 16.577 | 5776.769 | 5793.346 | PASS |
| | Ant2 | 5785 | 16.632 | 5776.727 | 5793.359 | PASS |
| | Ant1 | 5825 | 16.576 | 5816.741 | 5833.317 | PASS |
| | Ant2 | 5825 | 16.634 | 5816.657 | 5833.291 | PASS |
| 11N20MIMO | Ant1 | 5180 | 17.642 | 5171.161 | 5188.803 | PASS |
| | Ant2 | 5180 | 17.723 | 5171.460 | 5189.183 | PASS |
| | Ant1 | 5200 | 17.663 | 5191.508 | 5209.171 | PASS |
| | Ant2 | 5200 | 17.673 | 5191.530 | 5209.203 | PASS |
| | Ant1 | 5240 | 17.678 | 5231.524 | 5249.202 | PASS |
| | Ant2 | 5240 | 17.717 | 5231.488 | 5249.205 | PASS |
| | Ant1 | 5260 | 17.704 | 5251.508 | 5269.212 | PASS |
| | Ant2 | 5260 | 17.672 | 5251.598 | 5269.270 | PASS |
| | Ant1 | 5280 | 17.657 | 5271.583 | 5289.240 | PASS |
| | Ant2 | 5280 | 17.766 | 5271.552 | 5289.318 | PASS |
| | Ant1 | 5320 | 17.720 | 5311.557 | 5329.277 | PASS |
| | Ant2 | 5320 | 17.706 | 5311.591 | 5329.297 | PASS |
| | Ant1 | 5500 | 17.616 | 5491.553 | 5509.169 | PASS |
| | Ant2 | 5500 | 17.732 | 5491.613 | 5509.345 | PASS |
| | Ant1 | 5580 | 17.702 | 5571.655 | 5589.357 | PASS |
| | Ant2 | 5580 | 17.672 | 5571.667 | 5589.339 | PASS |
| | Ant1 | 5700 | 17.632 | 5691.670 | 5709.302 | PASS |
| | Ant2 | 5700 | 17.670 | 5691.715 | 5709.385 | PASS |
| | Ant1 | 5720 | 17.824 | 5711.628 | 5729.452 | PASS |
| | Ant2 | 5720 | 17.739 | 5711.682 | 5729.421 | PASS |
| | Ant1 | 5720_UNII-2C | 13.372 | 5711.628 | 5725 | PASS |
| | Ant2 | 5720_UNII-2C | 13.318 | 5711.682 | 5725 | PASS |


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| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant1 | 5720_UNII-3 | 4.452 | 5725 | 5729.452 | PASS |
| | Ant2 | 5720_UNII-3 | 4.421 | 5725 | 5729.421 | PASS |
| | Ant1 | 5745 | 17.803 | 5736.576 | 5754.379 | PASS |
| | Ant2 | 5745 | 17.683 | 5736.716 | 5754.399 | PASS |
| | Ant1 | 5785 | 17.801 | 5776.598 | 5794.399 | PASS |
| | Ant2 | 5785 | 17.688 | 5776.752 | 5794.440 | PASS |
| | Ant1 | 5825 | 17.933 | 5816.410 | 5834.343 | PASS |
| | Ant2 | 5825 | 17.851 | 5816.444 | 5834.295 | PASS |
| 11N40MIMO | Ant1 | 5190 | 36.112 | 5171.919 | 5208.031 | PASS |
| | Ant2 | 5190 | 36.217 | 5172.084 | 5208.301 | PASS |
| | Ant1 | 5230 | 36.150 | 5212.092 | 5248.242 | PASS |
| | Ant2 | 5230 | 36.208 | 5212.182 | 5248.390 | PASS |
| | Ant1 | 5270 | 36.113 | 5252.160 | 5288.273 | PASS |
| | Ant2 | 5270 | 35.931 | 5252.286 | 5288.217 | PASS |
| | Ant1 | 5310 | 36.141 | 5292.100 | 5328.241 | PASS |
| | Ant2 | 5310 | 36.138 | 5292.127 | 5328.265 | PASS |
| | Ant1 | 5510 | 36.071 | 5492.138 | 5528.209 | PASS |
| | Ant2 | 5510 | 36.029 | 5492.007 | 5528.036 | PASS |
| | Ant1 | 5550 | 36.123 | 5532.079 | 5568.202 | PASS |
| | Ant2 | 5550 | 35.930 | 5532.217 | 5568.147 | PASS |
| | Ant1 | 5670 | 36.142 | 5652.076 | 5688.218 | PASS |
| | Ant2 | 5670 | 36.149 | 5652.157 | 5688.306 | PASS |
| | Ant1 | 5710 | 36.146 | 5692.164 | 5728.310 | PASS |
| | Ant2 | 5710 | 36.012 | 5692.267 | 5728.279 | PASS |
| | Ant1 | 5710_UNII-2C | 32.836 | 5692.164 | 5725 | PASS |
| | Ant2 | 5710_UNII-2C | 32.733 | 5692.267 | 5725 | PASS |
| | Ant1 | 5710_UNII-3 | 3.31 | 5725 | 5728.310 | PASS |
| | Ant2 | 5710_UNII-3 | 3.279 | 5725 | 5728.279 | PASS |
| | Ant1 | 5755 | 36.154 | 5737.193 | 5773.347 | PASS |
| | Ant2 | 5755 | 36.276 | 5737.048 | 5773.324 | PASS |
| | Ant1 | 5795 | 36.298 | 5777.102 | 5813.400 | PASS |
| | Ant2 | 5795 | 36.173 | 5777.207 | 5813.380 | PASS |
| 11AC20MIMO | Ant1 | 5180 | 17.592 | 5171.304 | 5188.896 | PASS |
| | Ant2 | 5180 | 17.666 | 5171.333 | 5188.999 | PASS |
| | Ant1 | 5200 | 17.666 | 5191.378 | 5209.044 | PASS |
| | Ant2 | 5200 | 17.681 | 5191.343 | 5209.024 | PASS |
| | Ant1 | 5240 | 17.658 | 5231.359 | 5249.017 | PASS |
| | Ant2 | 5240 | 17.624 | 5231.412 | 5249.036 | PASS |
| | Ant1 | 5260 | 17.655 | 5251.340 | 5268.995 | PASS |
| | Ant2 | 5260 | 17.715 | 5251.386 | 5269.101 | PASS |
| | Ant1 | 5280 | 17.665 | 5271.327 | 5288.992 | PASS |
| | Ant2 | 5280 | 17.681 | 5271.323 | 5289.004 | PASS |
| | Ant1 | 5320 | 17.575 | 5311.402 | 5328.977 | PASS |
| | Ant2 | 5320 | 17.581 | 5311.401 | 5328.982 | PASS |
| | Ant1 | 5500 | 17.612 | 5491.405 | 5509.017 | PASS |
| | Ant2 | 5500 | 17.581 | 5491.448 | 5509.029 | PASS |
| | Ant1 | 5580 | 17.739 | 5571.380 | 5589.119 | PASS |
| | Ant2 | 5580 | 17.748 | 5571.394 | 5589.142 | PASS |
| | Ant1 | 5700 | 17.689 | 5691.386 | 5709.075 | PASS |
| | Ant2 | 5700 | 17.671 | 5691.446 | 5709.117 | PASS |
| | Ant1 | 5720 | 17.674 | 5711.429 | 5729.103 | PASS |
| | Ant2 | 5720 | 17.689 | 5711.461 | 5729.150 | PASS |
| | Ant1 | 5720_UNII-2C | 13.571 | 5711.429 | 5725 | PASS |
| | Ant2 | 5720_UNII-2C | 13.539 | 5711.461 | 5725 | PASS |
| | Ant1 | 5720_UNII-3 | 4.103 | 5725 | 5729.103 | PASS |
| | Ant2 | 5720_UNII-3 | 4.15 | 5725 | 5729.150 | PASS |
| | Ant1 | 5745 | 17.700 | 5736.429 | 5754.129 | PASS |
| | Ant2 | 5745 | 17.660 | 5736.390 | 5754.050 | PASS |
| | Ant1 | 5785 | 17.835 | 5776.326 | 5794.161 | PASS |
| | Ant2 | 5785 | 17.687 | 5776.418 | 5794.105 | PASS |


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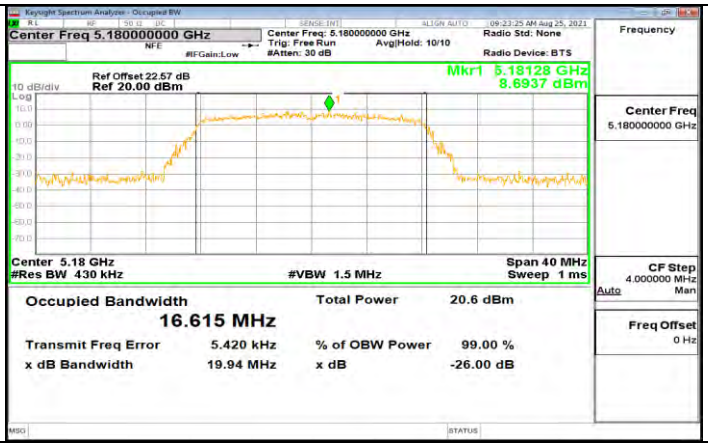
| | | | | | | |
|---|---|---|---|---|---|---|
| | Ant1 | 5825 | 17.796 | 5816.380 | 5834.176 | PASS |
| | Ant2 | 5825 | 17.685 | 5816.410 | 5834.095 | PASS |
| 11AC40MIMO | Ant1 | 5190 | 36.078 | 5172.044 | 5208.122 | PASS |
| | Ant2 | 5190 | 36.202 | 5172.046 | 5208.248 | PASS |
| | Ant1 | 5230 | 36.063 | 5212.199 | 5248.262 | PASS |
| | Ant2 | 5230 | 36.117 | 5212.202 | 5248.319 | PASS |
| | Ant1 | 5270 | 36.005 | 5252.180 | 5288.185 | PASS |
| | Ant2 | 5270 | 36.105 | 5252.242 | 5288.347 | PASS |
| | Ant1 | 5310 | 36.081 | 5292.202 | 5328.283 | PASS |
| | Ant2 | 5310 | 36.243 | 5292.160 | 5328.403 | PASS |
| | Ant1 | 5510 | 35.952 | 5492.319 | 5528.271 | PASS |
| | Ant2 | 5510 | 36.070 | 5492.245 | 5528.315 | PASS |
| | Ant1 | 5550 | 36.176 | 5532.230 | 5568.406 | PASS |
| | Ant2 | 5550 | 36.034 | 5532.302 | 5568.336 | PASS |
| | Ant1 | 5670 | 36.076 | 5652.225 | 5688.301 | PASS |
| | Ant2 | 5670 | 36.085 | 5652.208 | 5688.293 | PASS |
| | Ant1 | 5710 | 36.151 | 5692.255 | 5728.406 | PASS |
| | Ant2 | 5710 | 36.120 | 5692.277 | 5728.397 | PASS |
| | Ant1 | 5710_UNII-2C | 32.745 | 5692.255 | 5725 | PASS |
| | Ant2 | 5710_UNII-2C | 32.723 | 5692.277 | 5725 | PASS |
| | Ant1 | 5710_UNII-3 | 3.406 | 5725 | 5728.406 | PASS |
| | Ant2 | 5710_UNII-3 | 3.397 | 5725 | 5728.397 | PASS |
| | Ant1 | 5755 | 36.115 | 5737.258 | 5773.373 | PASS |
| | Ant2 | 5755 | 36.072 | 5737.273 | 5773.345 | PASS |
| | Ant1 | 5795 | 36.199 | 5776.982 | 5813.181 | PASS |
| | Ant2 | 5795 | 36.096 | 5777.007 | 5813.103 | PASS |
| 11AC80MIMO | Ant1 | 5210 | 75.495 | 5172.212 | 5247.707 | PASS |
| | Ant2 | 5210 | 75.636 | 5172.171 | 5247.807 | PASS |
| | Ant1 | 5290 | 75.377 | 5252.321 | 5327.698 | PASS |
| | Ant2 | 5290 | 75.651 | 5252.226 | 5327.877 | PASS |
| | Ant1 | 5530 | 75.250 | 5492.324 | 5567.574 | PASS |
| | Ant2 | 5530 | 75.619 | 5492.252 | 5567.871 | PASS |
| | Ant1 | 5610 | 75.835 | 5572.161 | 5647.996 | PASS |
| | Ant2 | 5610 | 75.459 | 5572.343 | 5647.802 | PASS |
| | Ant1 | 5690 | 75.787 | 5652.199 | 5727.986 | PASS |
| | Ant2 | 5690 | 75.646 | 5652.290 | 5727.936 | PASS |
| | Ant1 | 5690_UNII-2C | 72.801 | 5652.199 | 5725 | PASS |
| | Ant2 | 5690_UNII-2C | 72.71 | 5652.290 | 5725 | PASS |
| | Ant1 | 5690_UNII-3 | 2.986 | 5725 | 5727.986 | PASS |
| | Ant2 | 5690_UNII-3 | 2.936 | 5725 | 5727.936 | PASS |
| | Ant1 | 5775 | 75.543 | 5737.352 | 5812.895 | PASS |
| | Ant2 | 5775 | 75.564 | 5737.331 | 5812.895 | PASS |

### 13.2.2. Test Graphs





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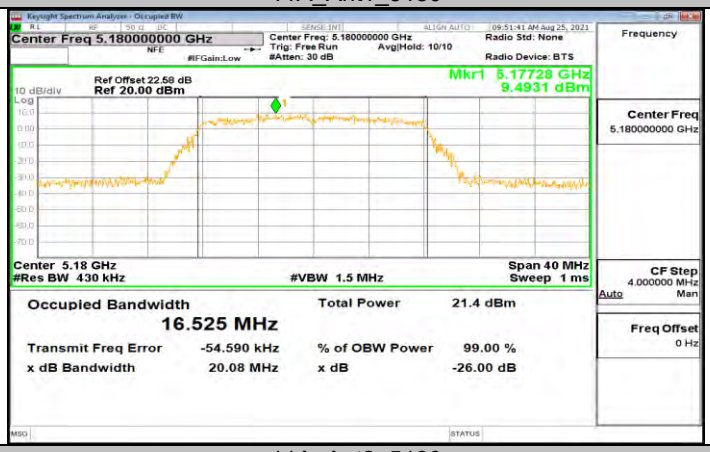
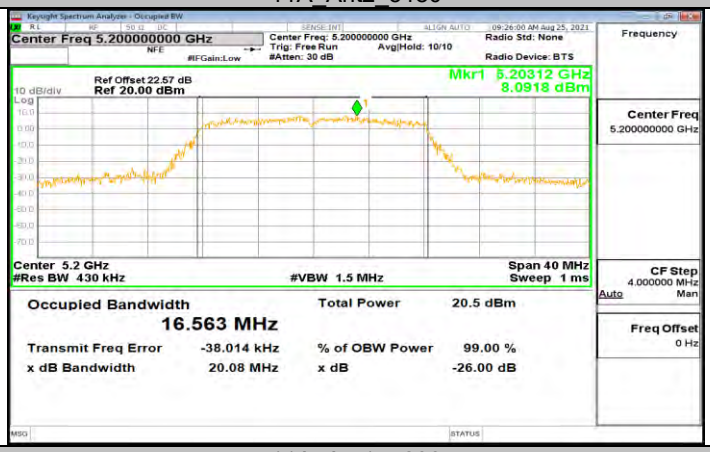
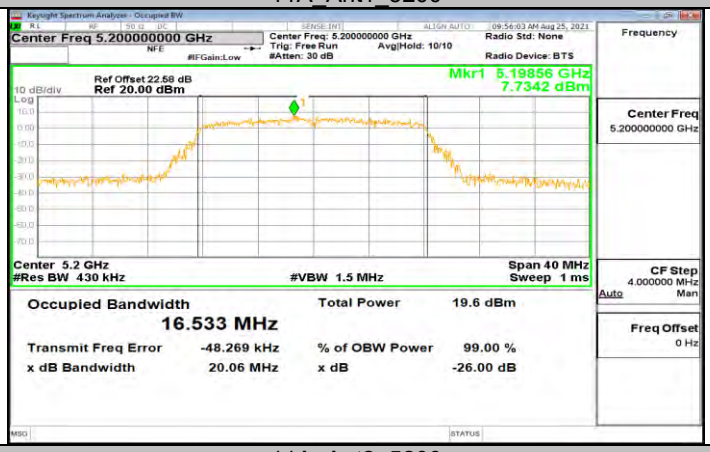
11A_Ant1_5180




11A_Ant2_5180




11A_Ant1_5200




11A_Ant2_5200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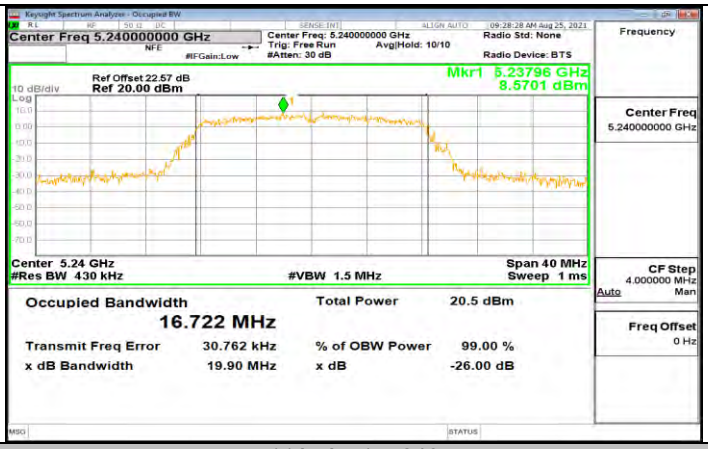
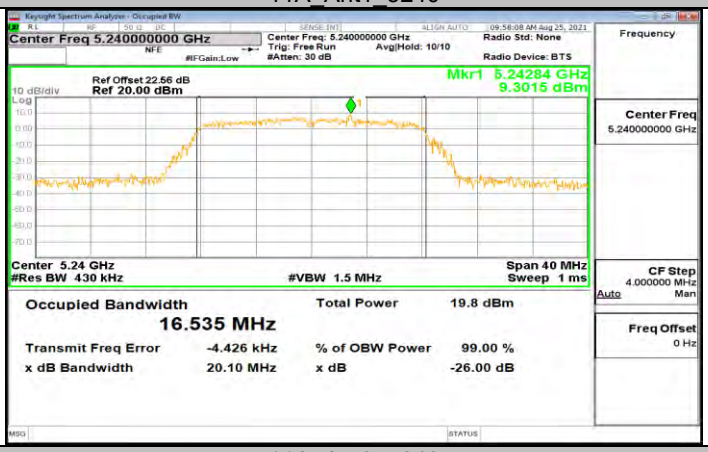
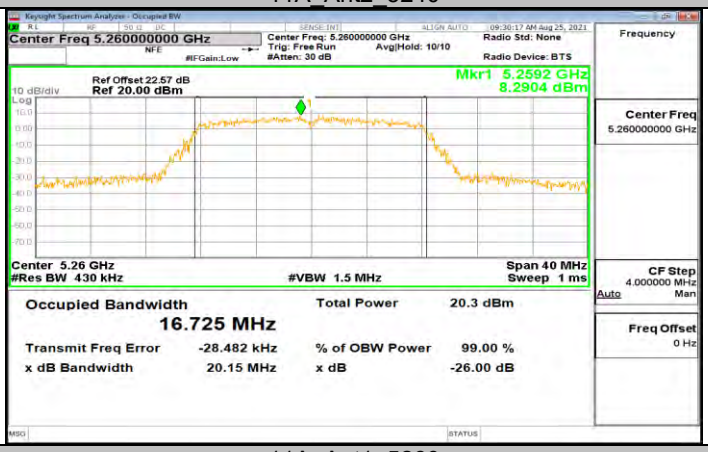



11A_Ant1_5240




11A_Ant2_5240




11A_Ant1_5260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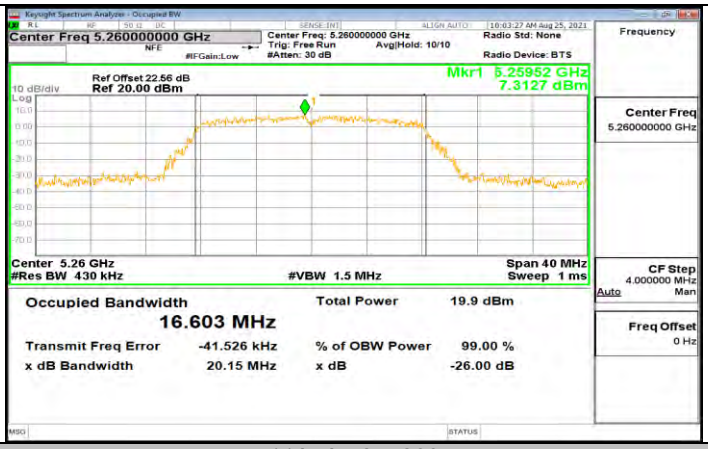
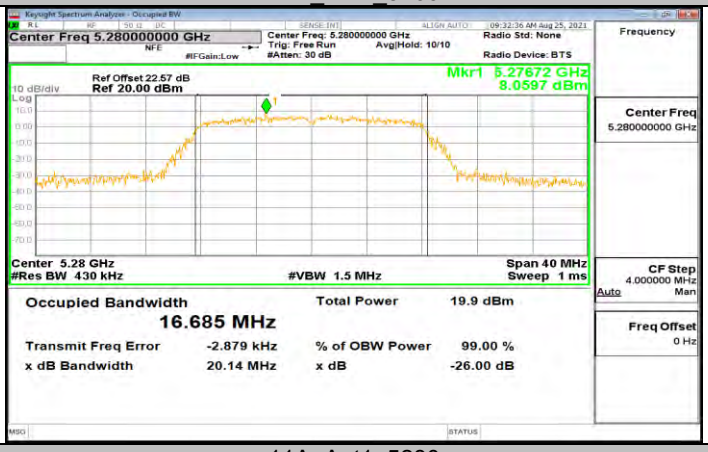
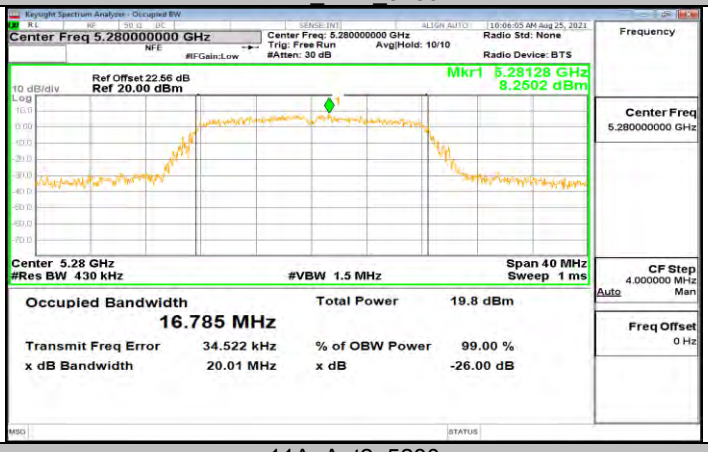



11A_Ant2_5260




11A_Ant1_5280




11A_Ant2_5280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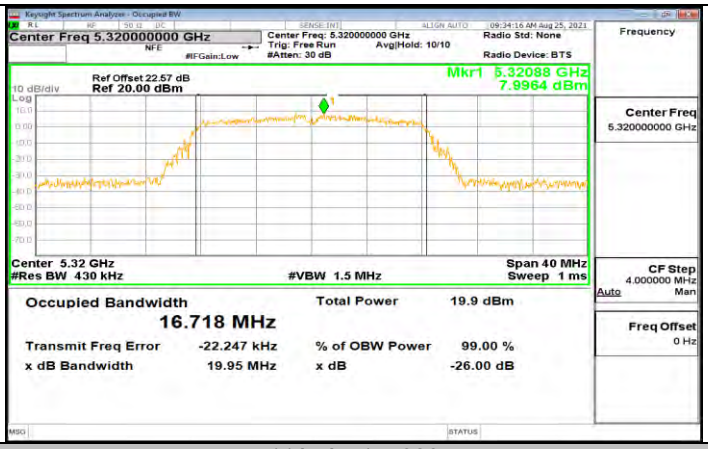
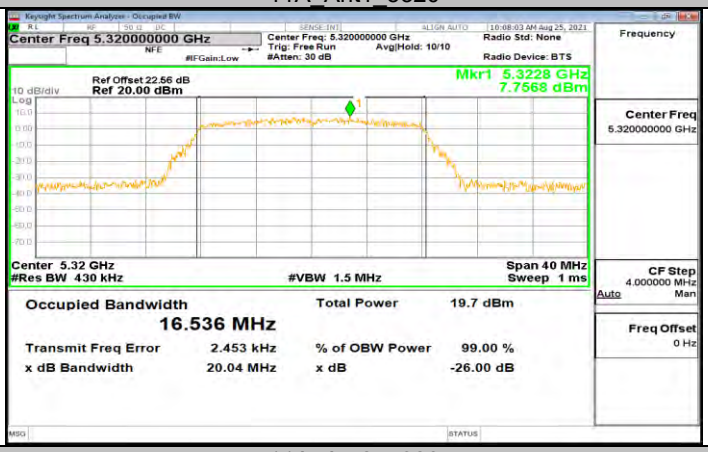
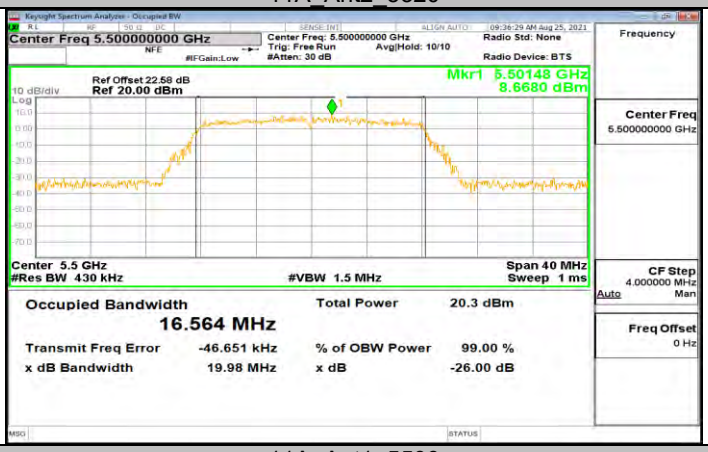



11A_Ant1_5320




11A_Ant2_5320




11A_Ant1_5500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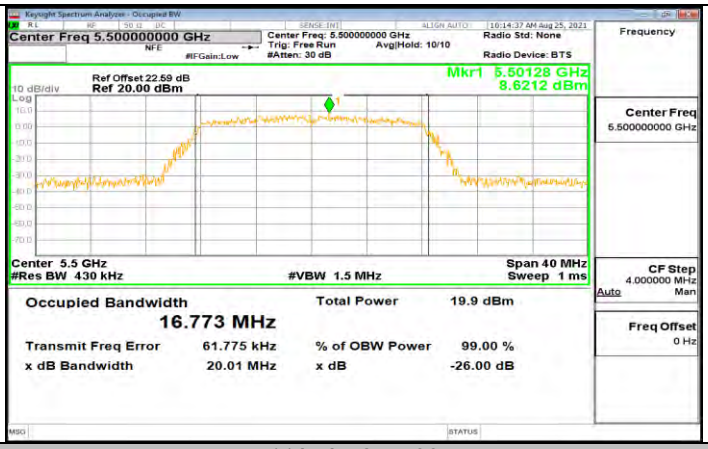
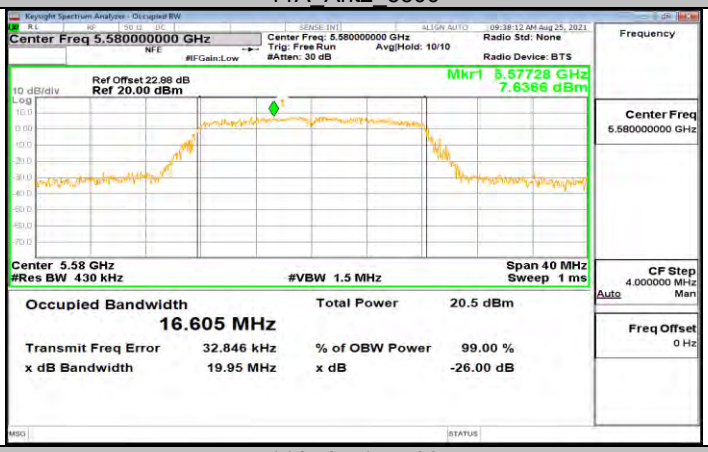
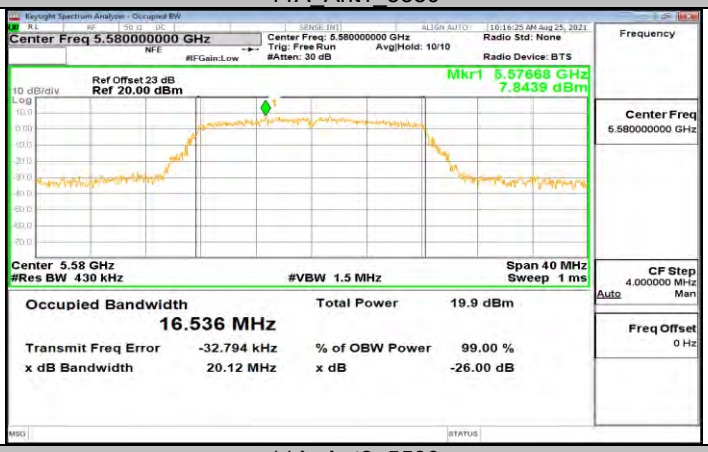



11A_Ant2_5500




11A_Ant1_5580




11A_Ant2_5580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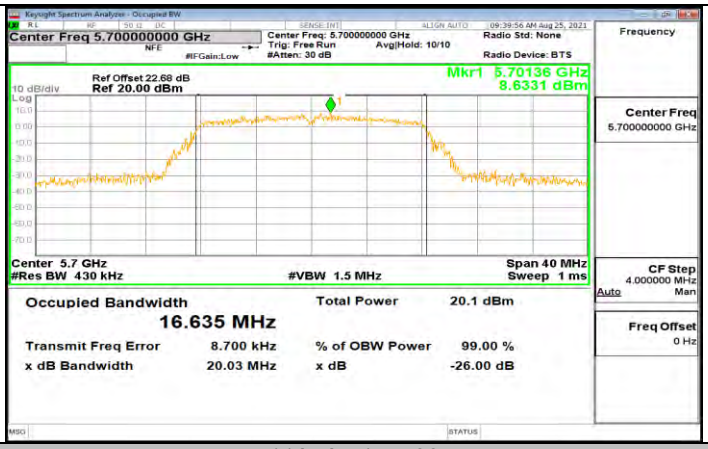
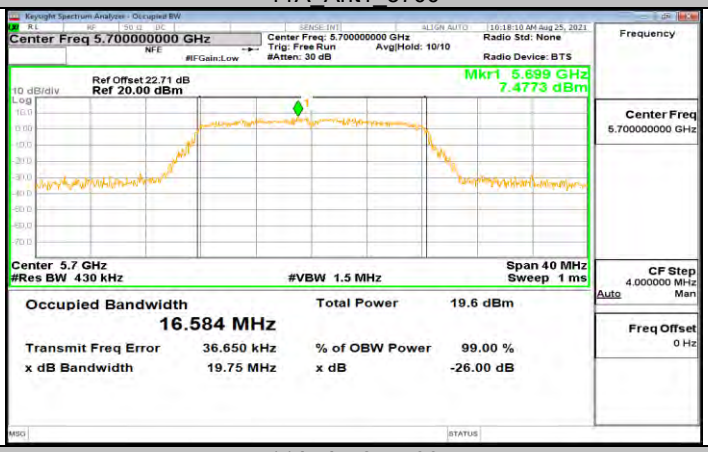
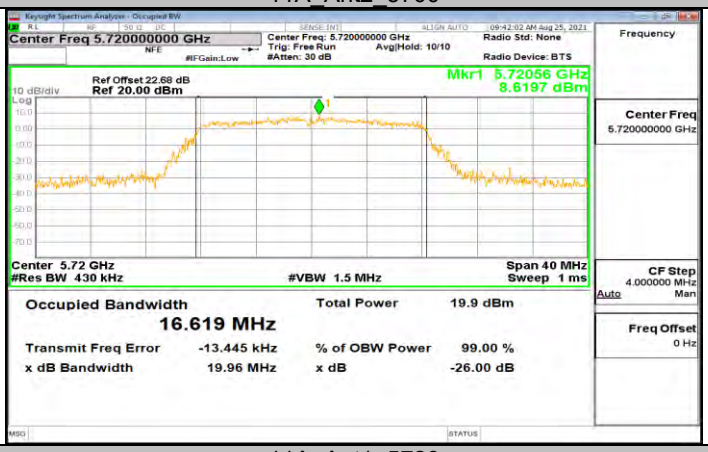



11A_Ant1_5700




11A_Ant2_5700




11A_Ant1_5720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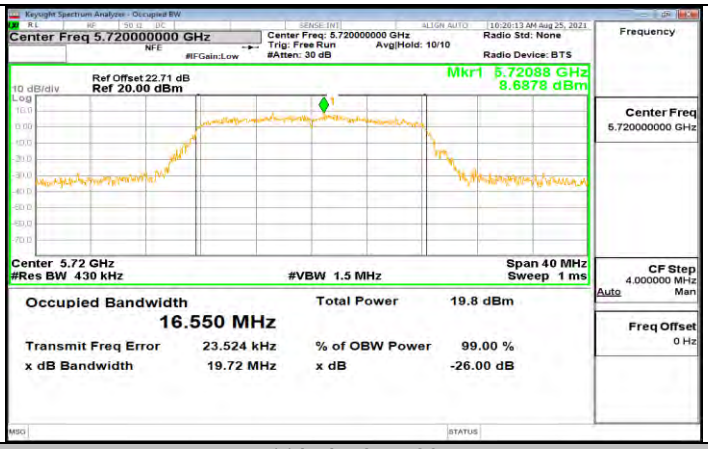
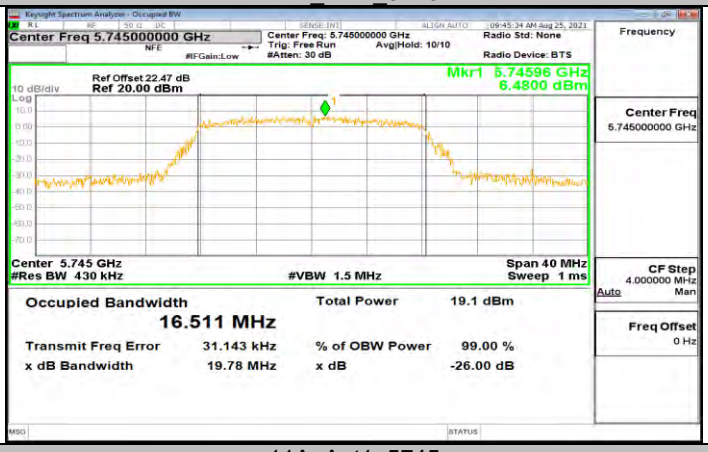
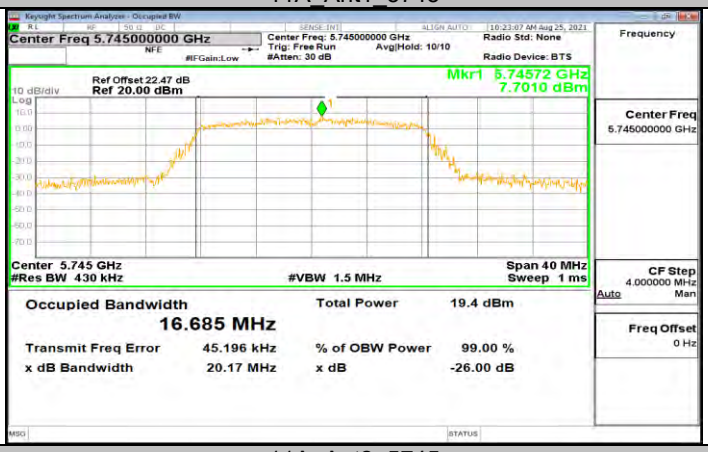



11A_Ant2_5720




11A_Ant1_5745




11A_Ant2_5745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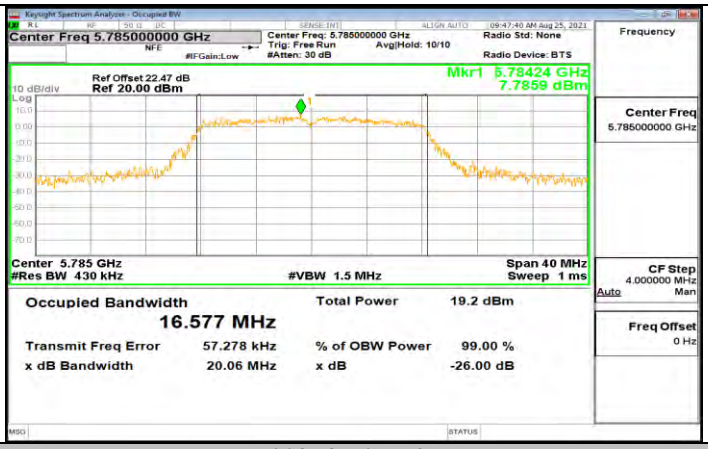
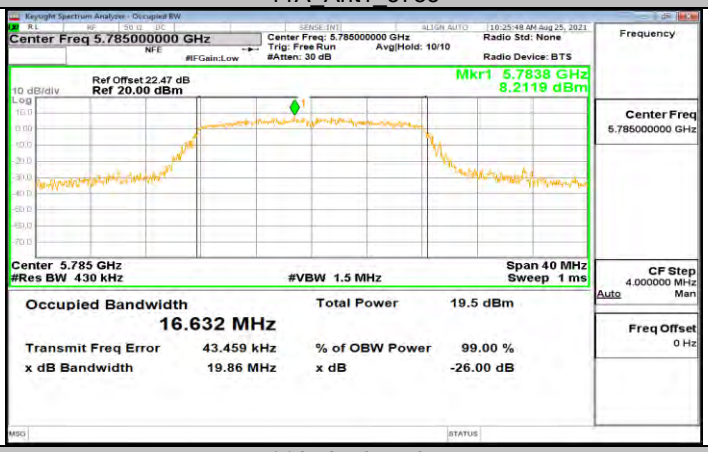



11A_Ant1_5785

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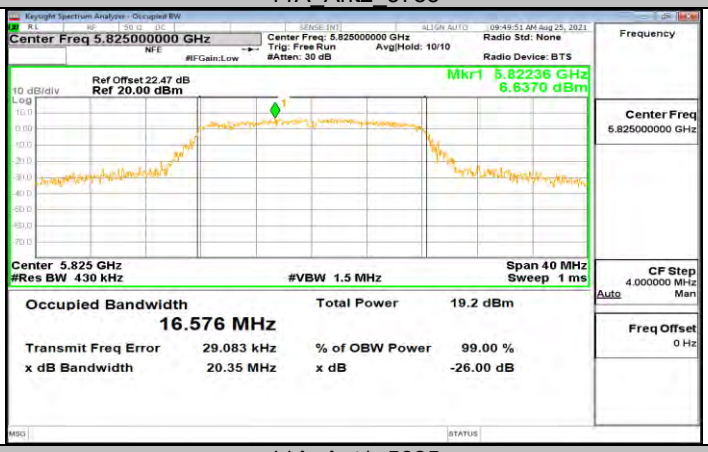


11A_Ant1_5825


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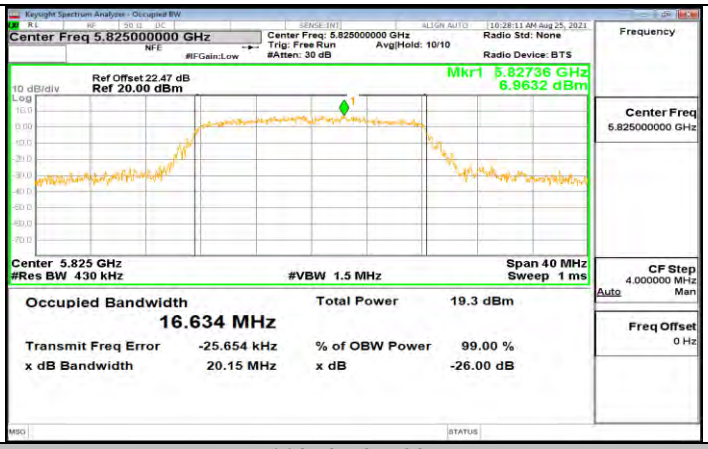


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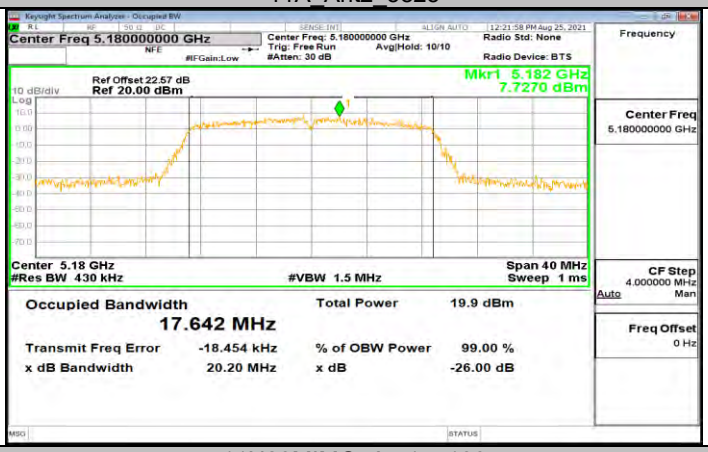


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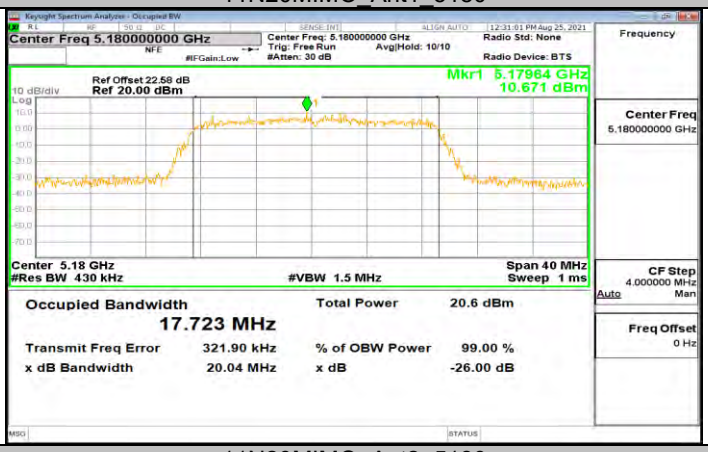


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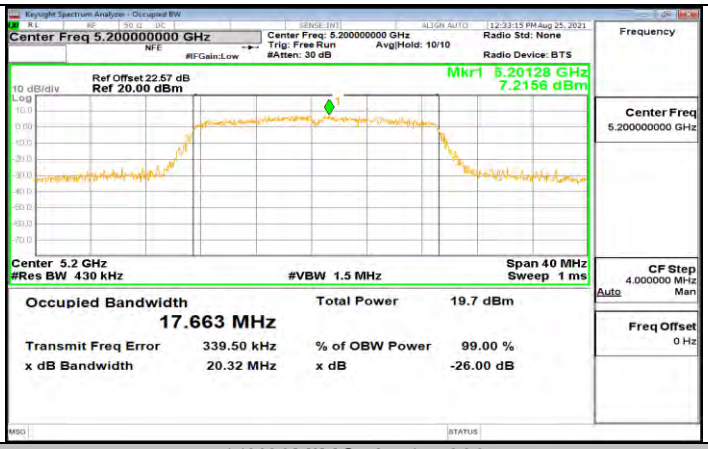


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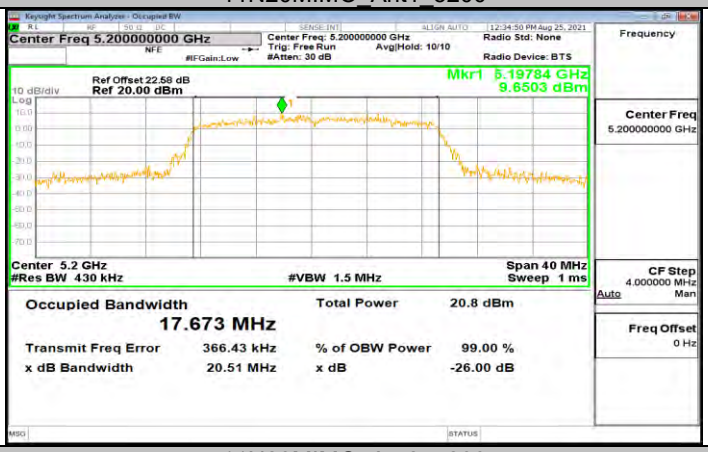


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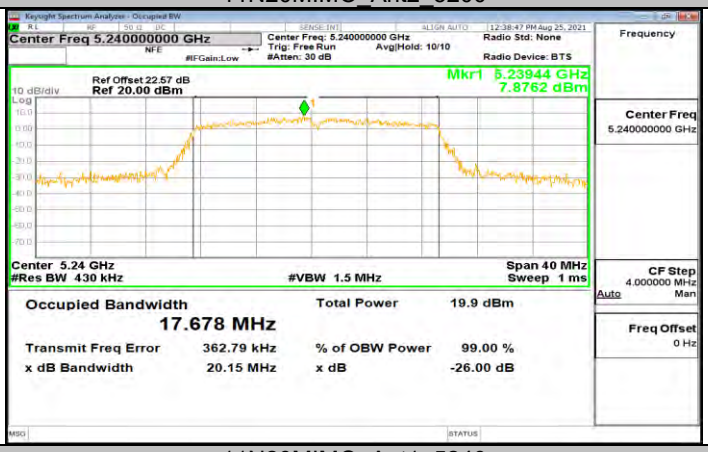


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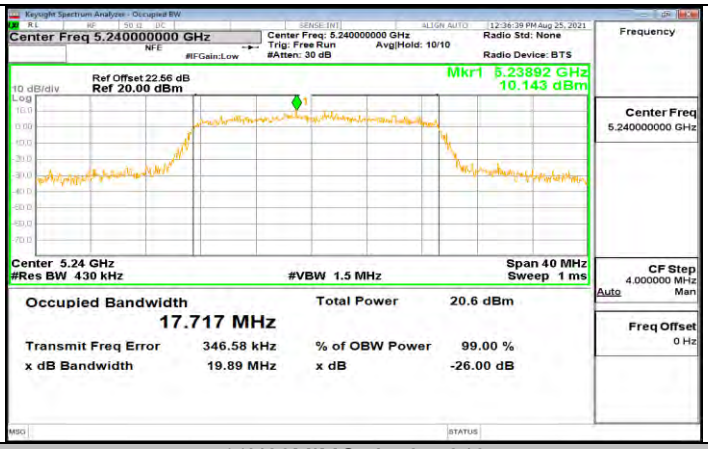


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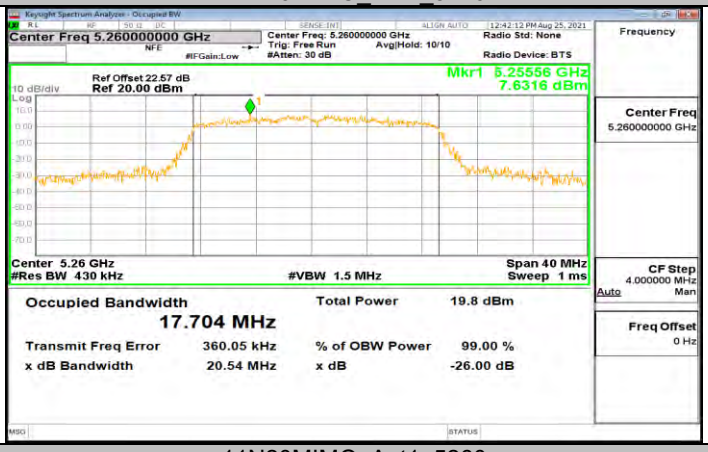


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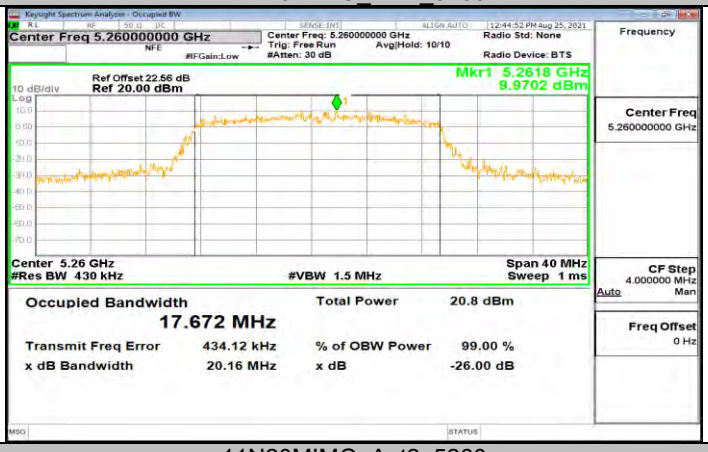


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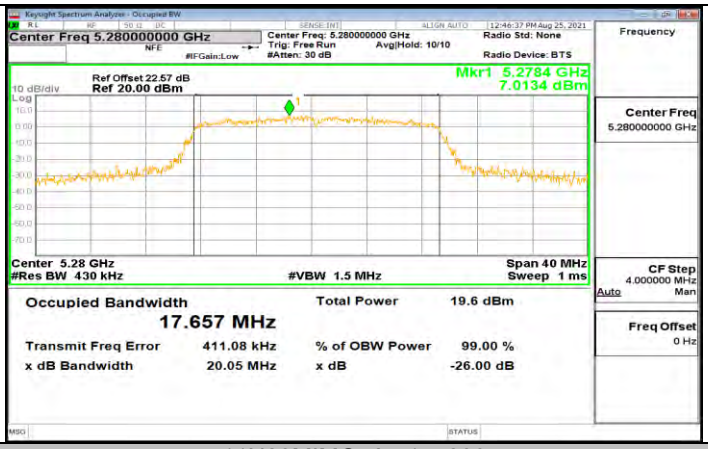


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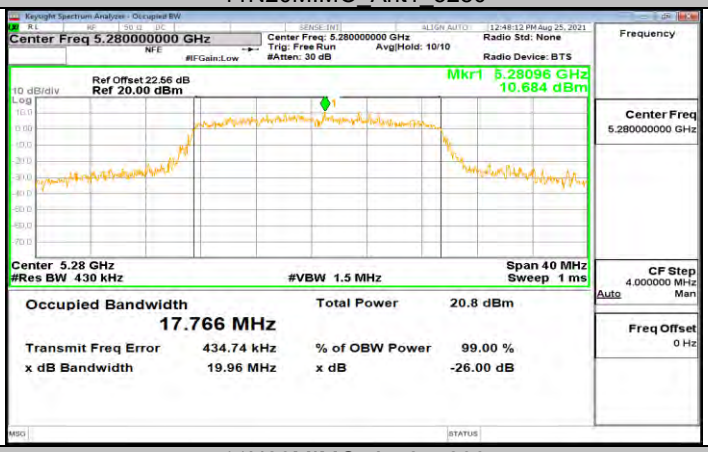


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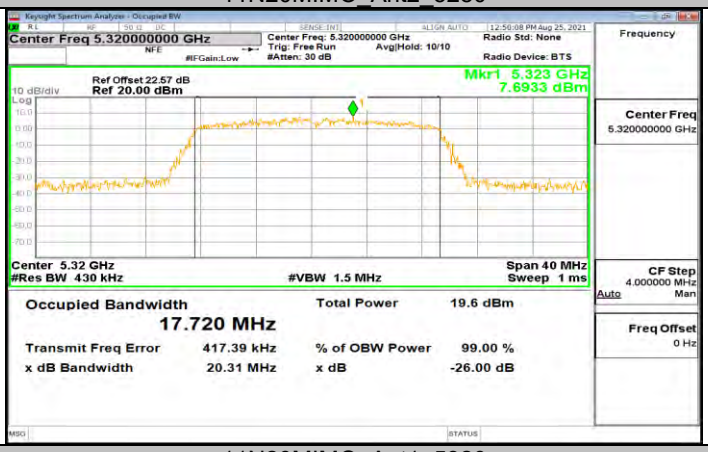


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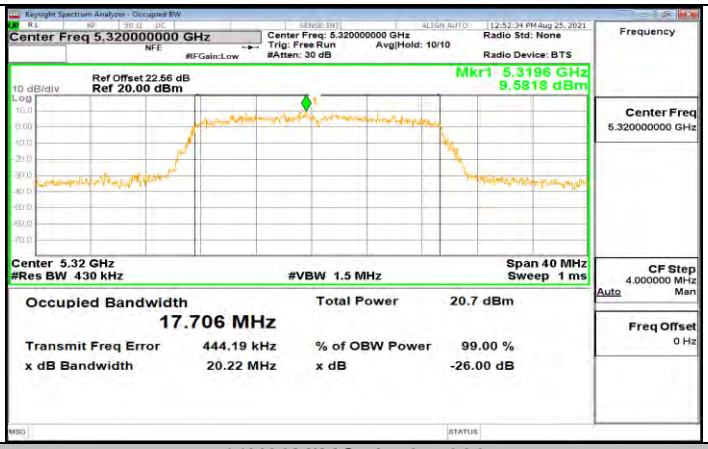


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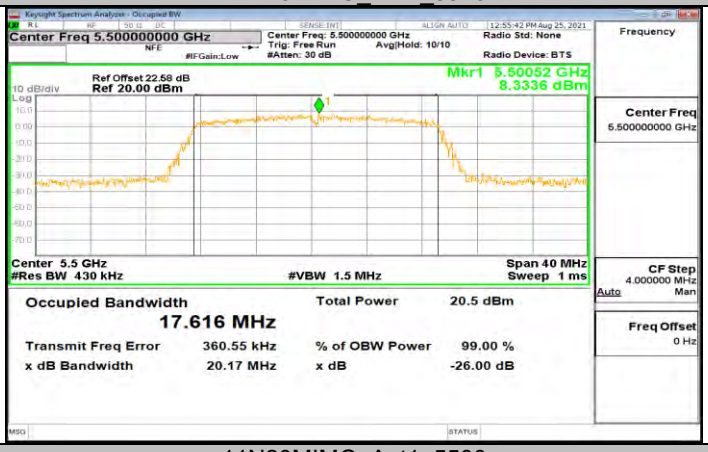


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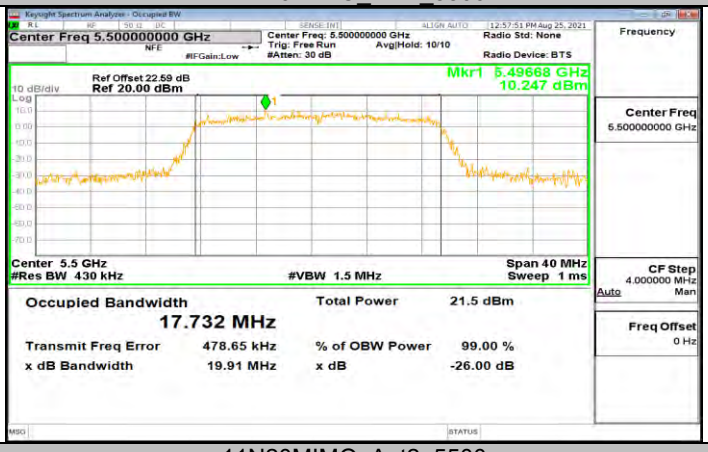


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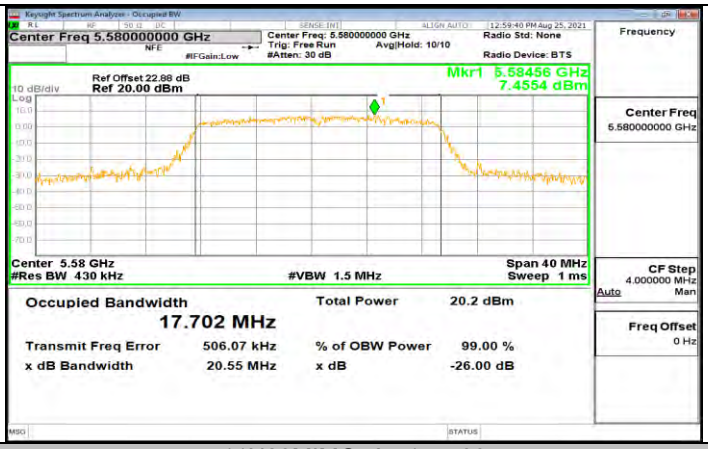


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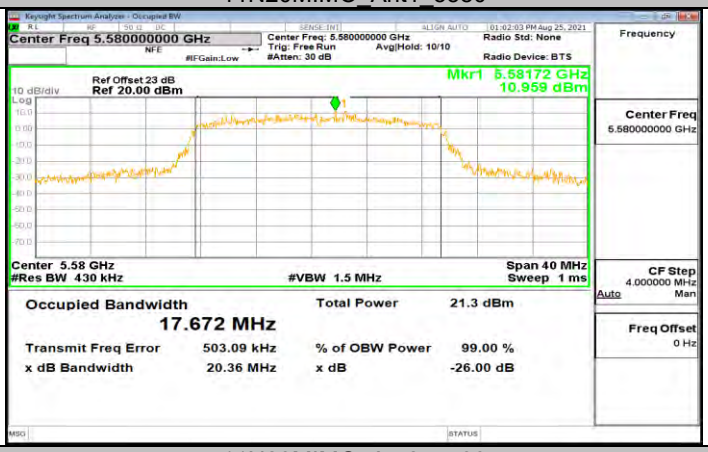


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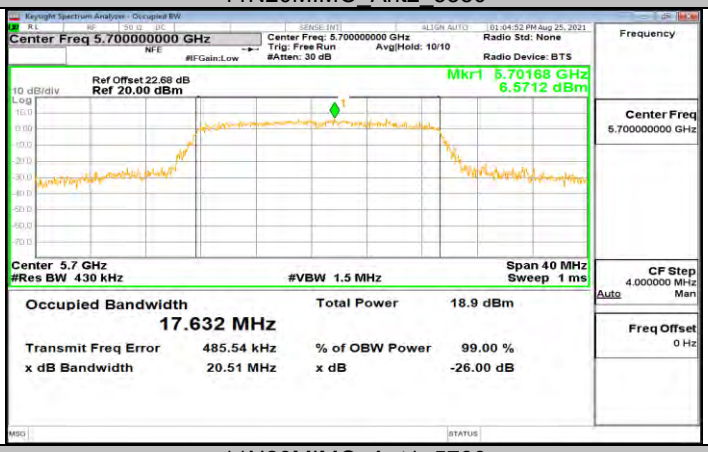


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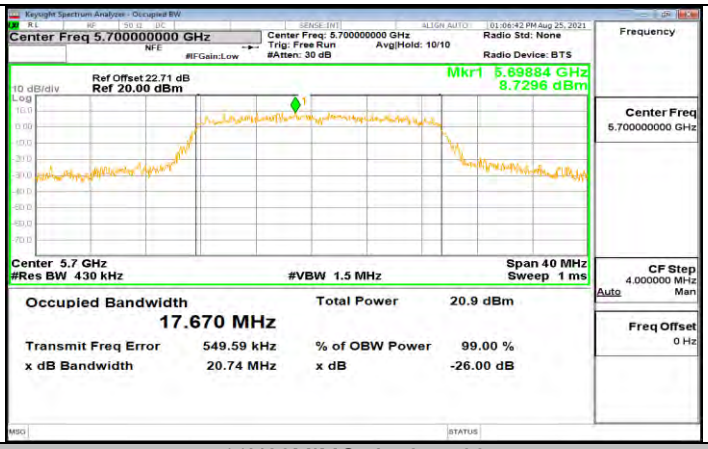


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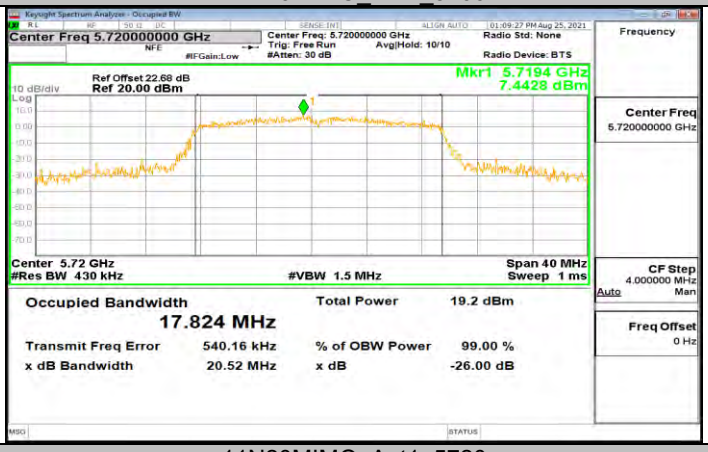


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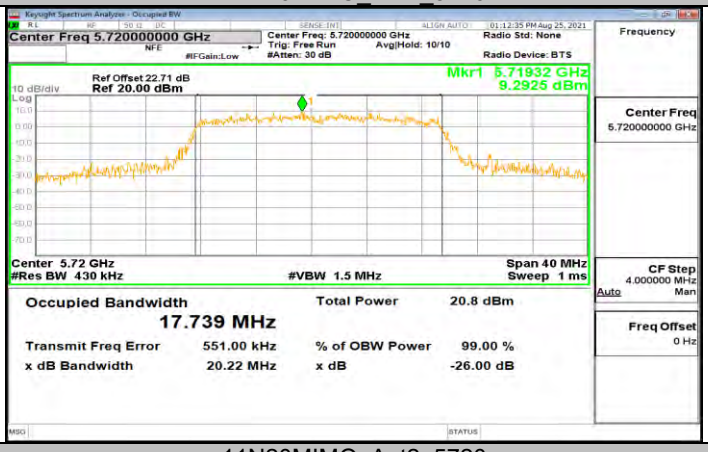


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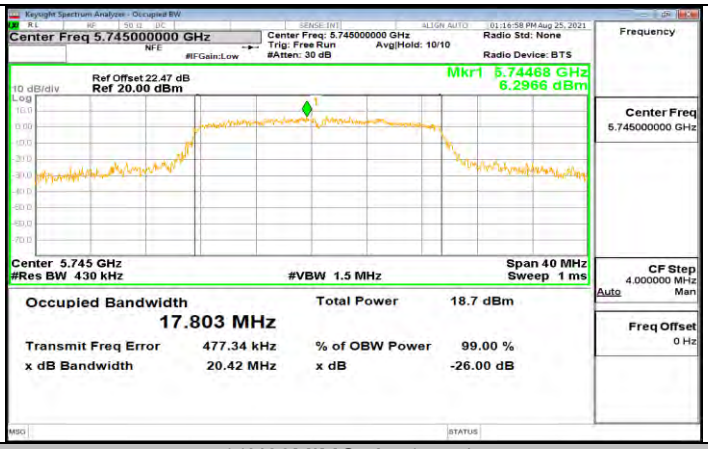


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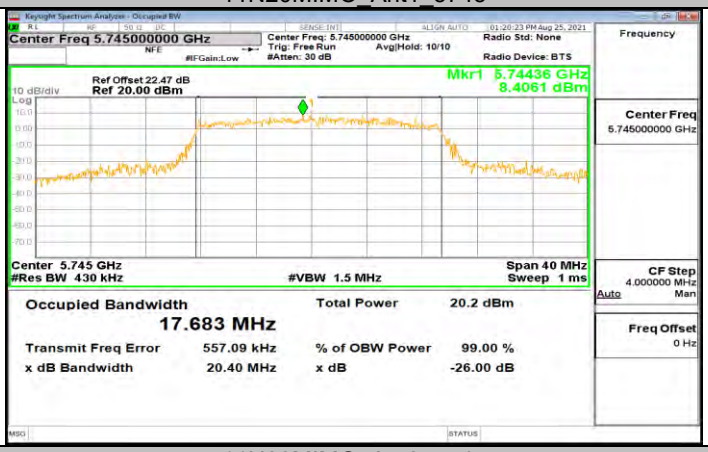


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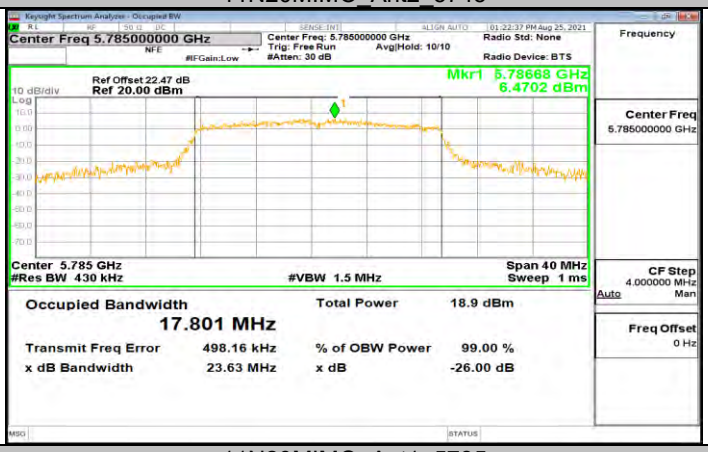


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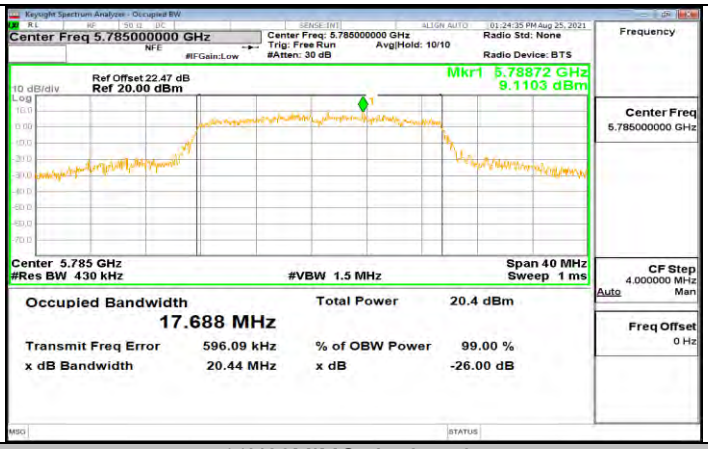


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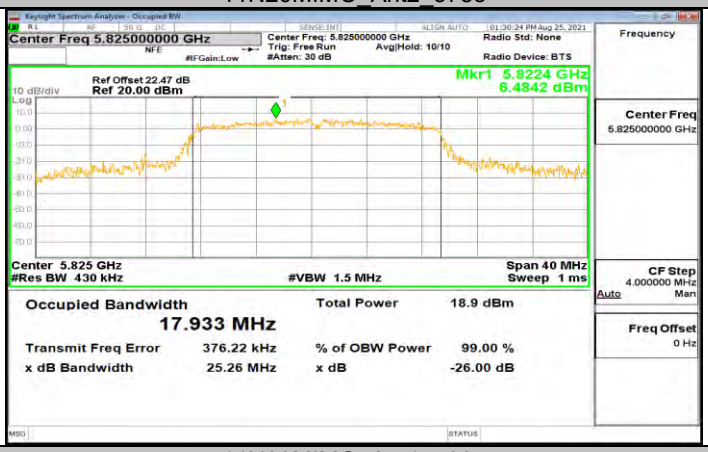


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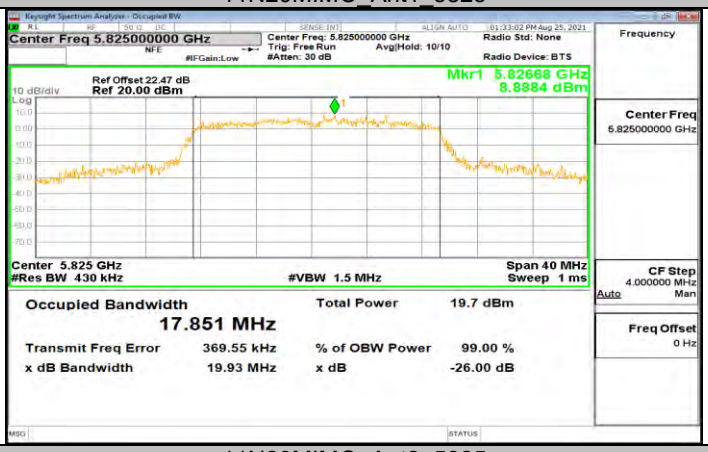


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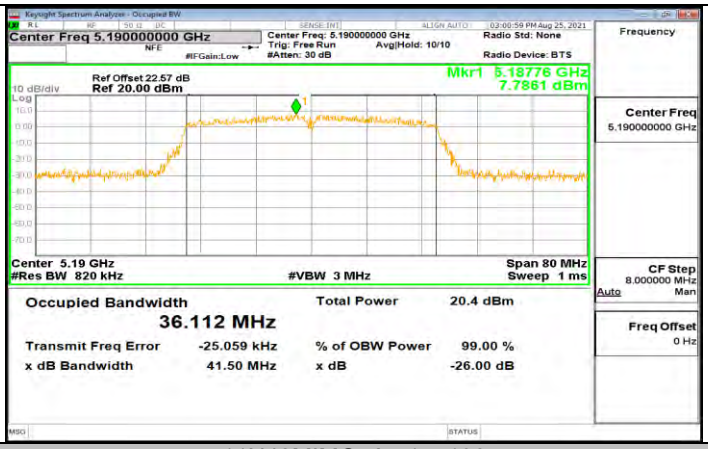


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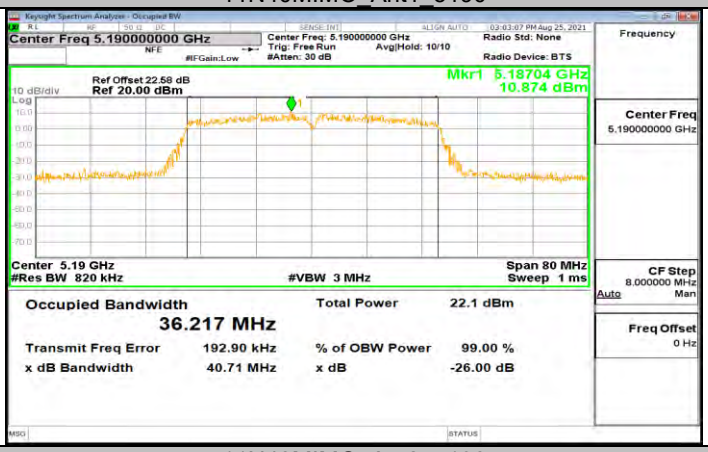


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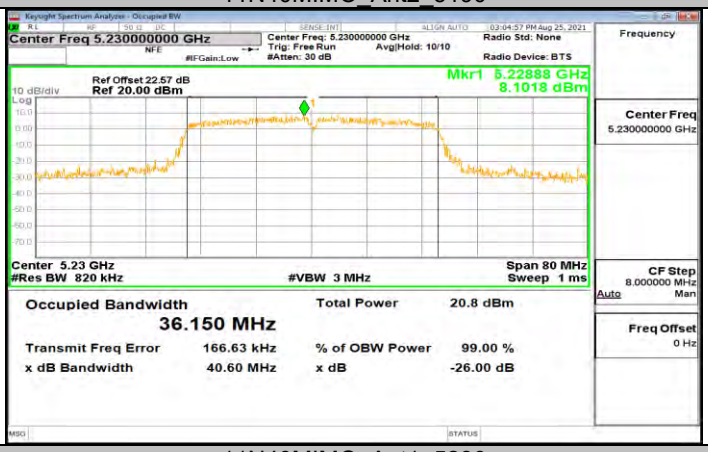


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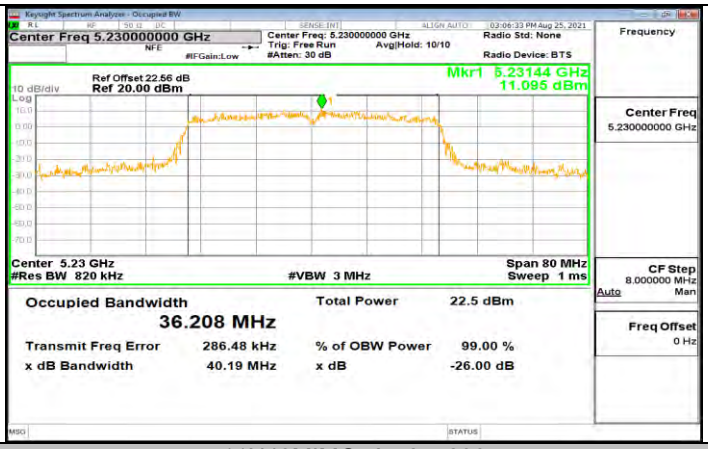


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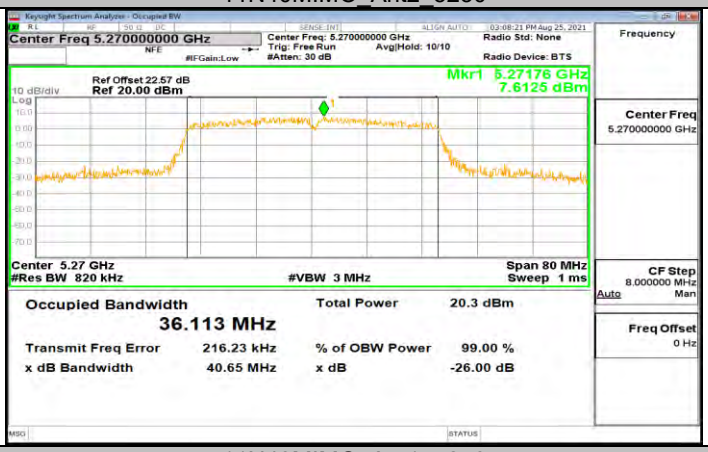


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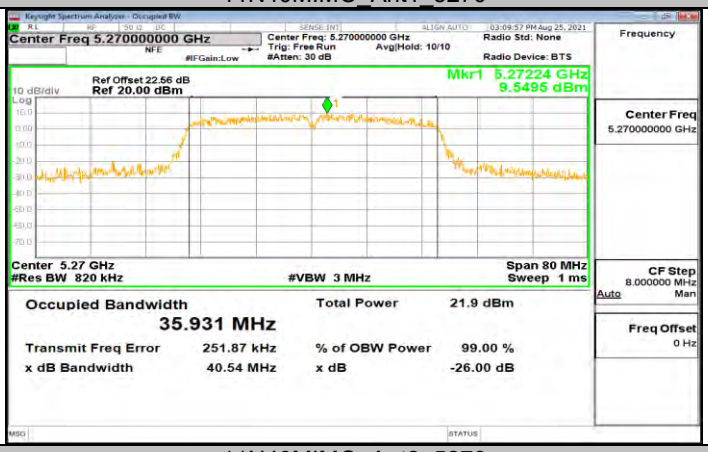


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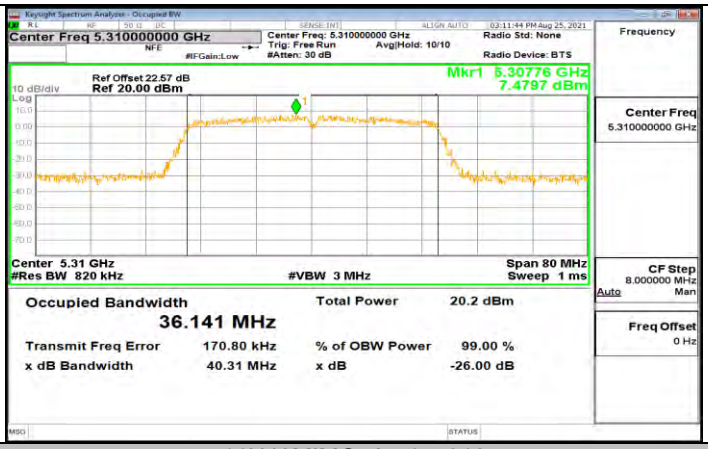


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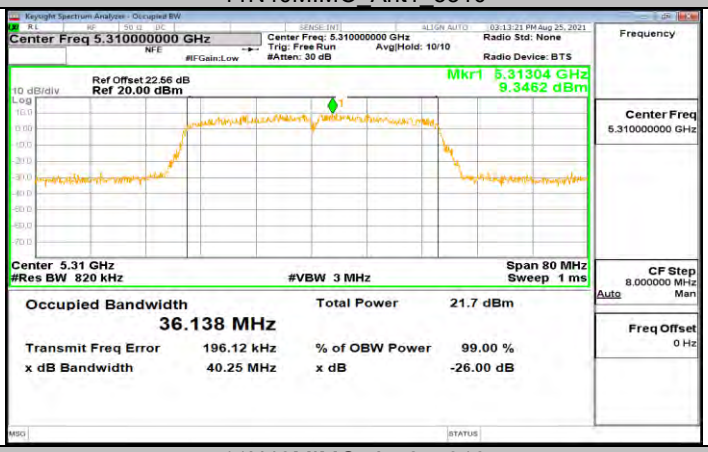


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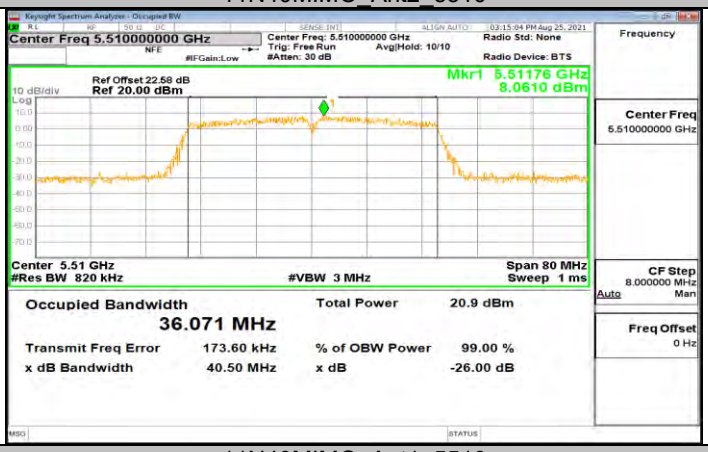


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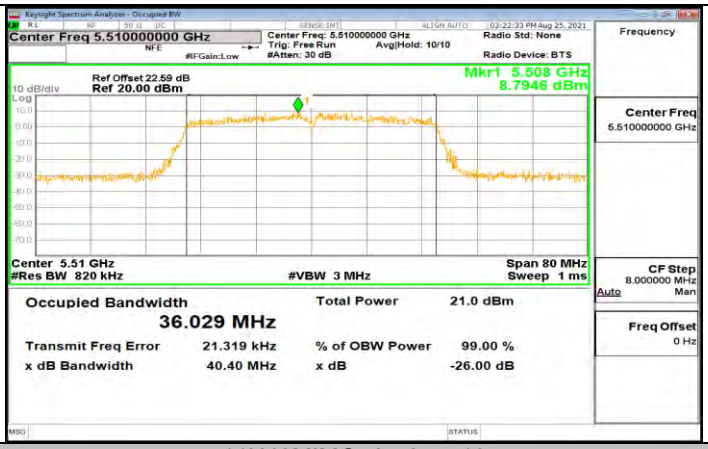


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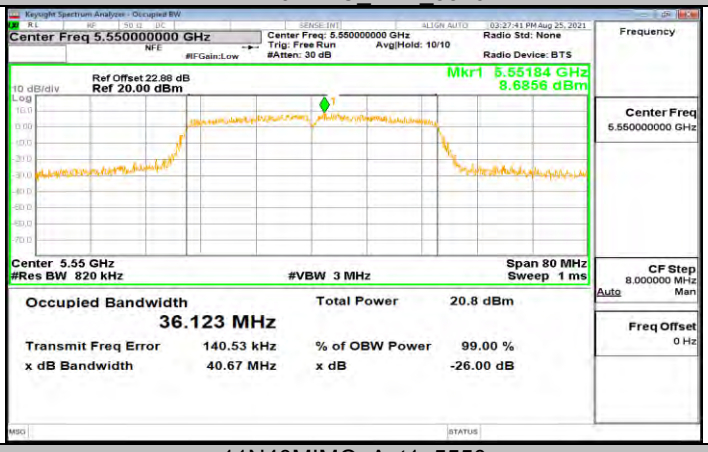


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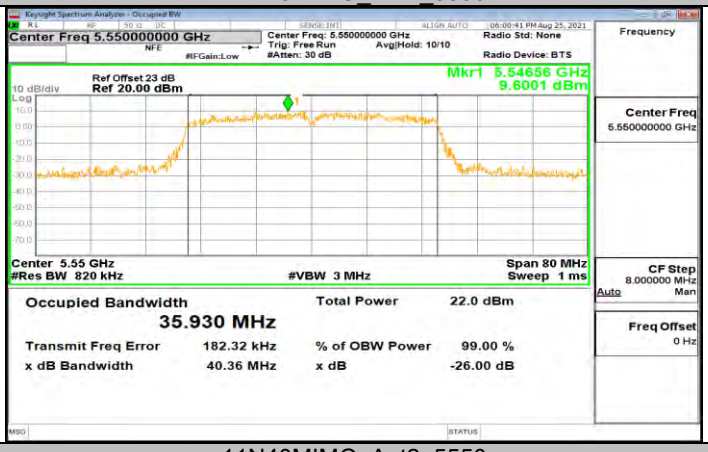


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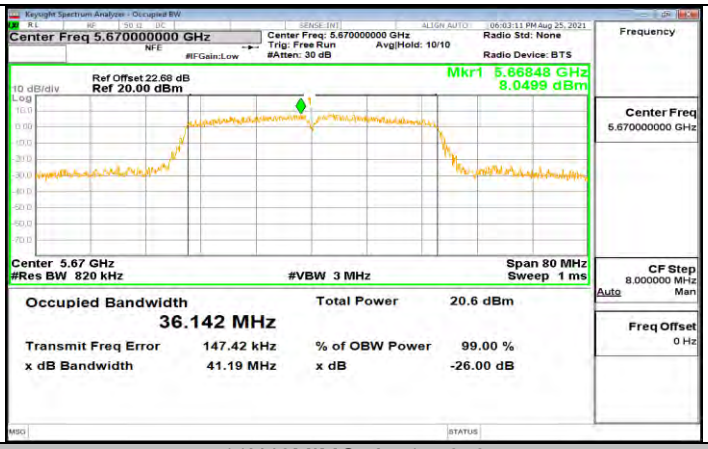


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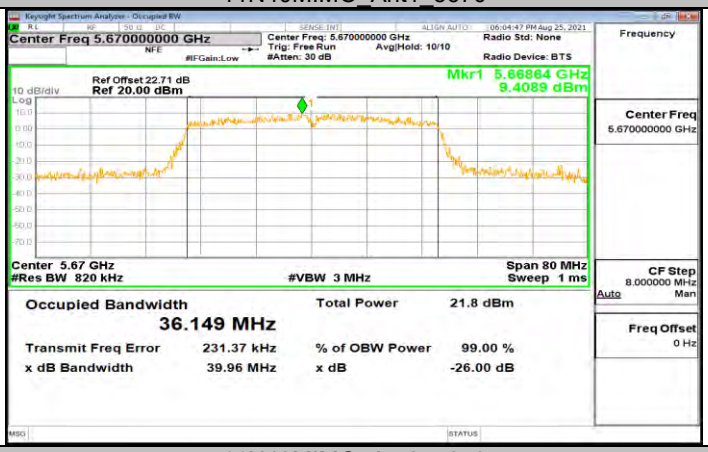


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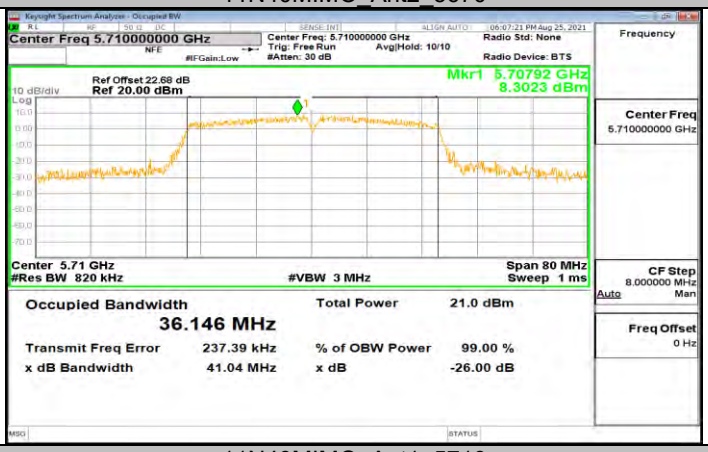


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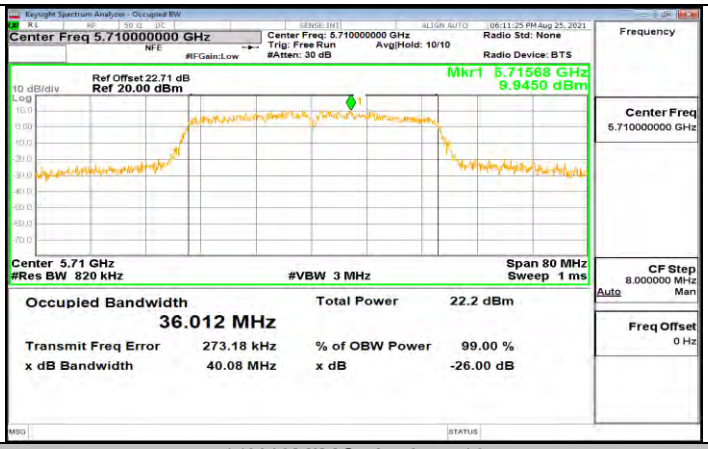


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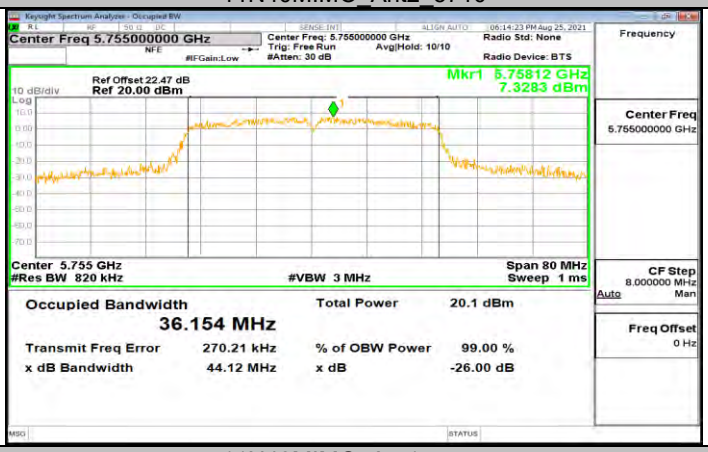


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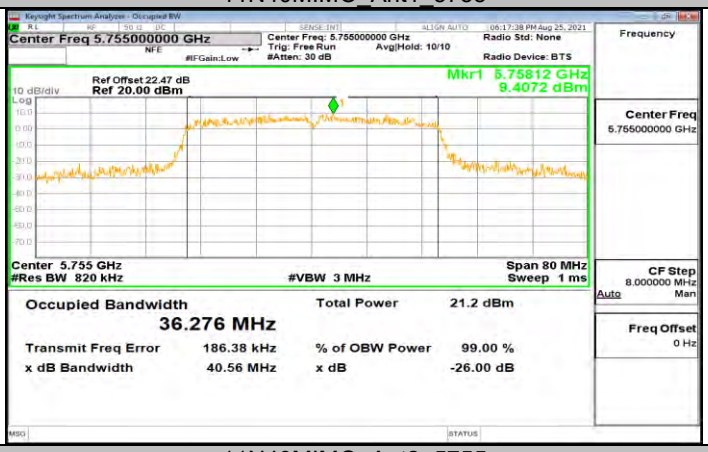


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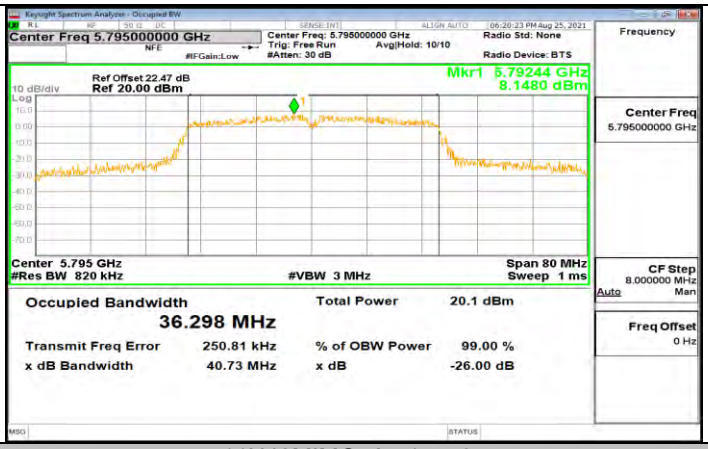


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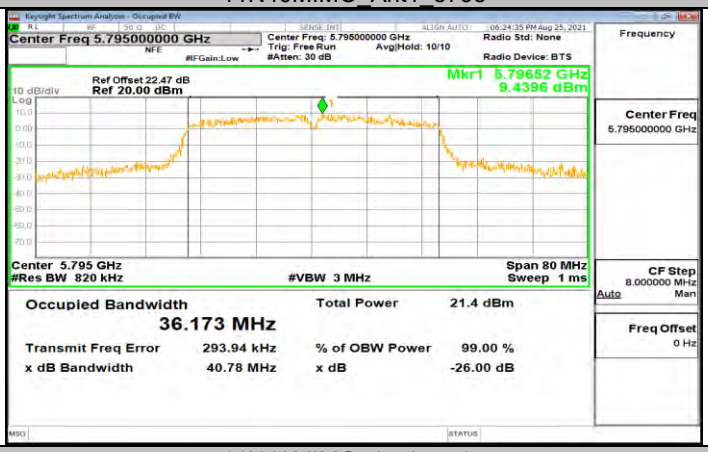


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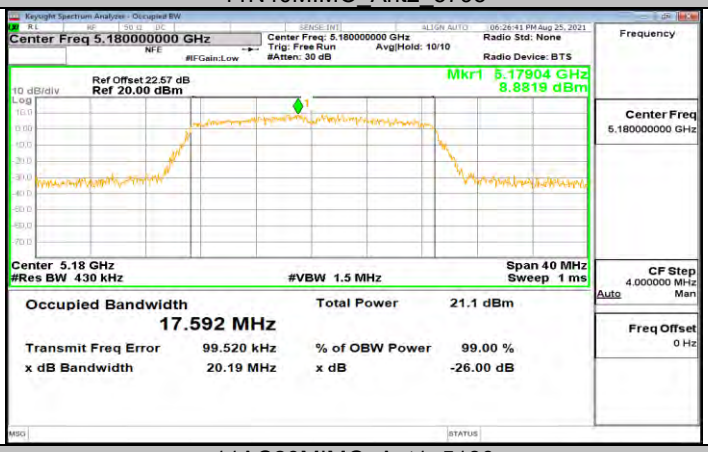


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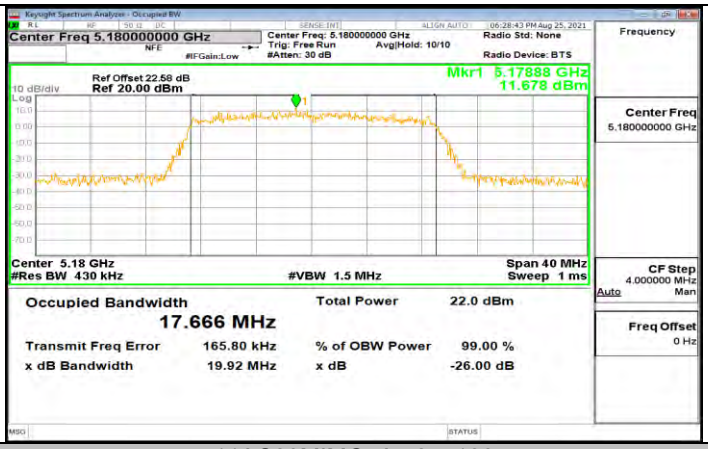


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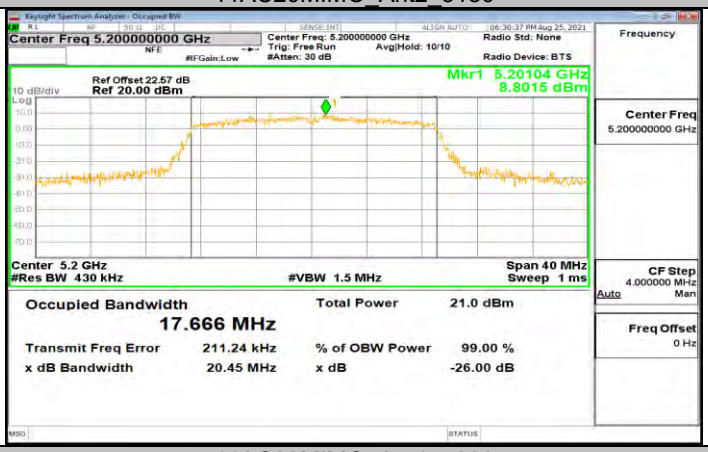


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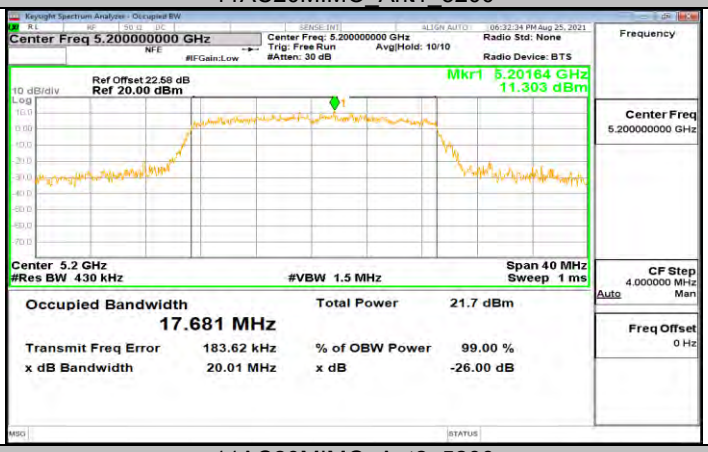


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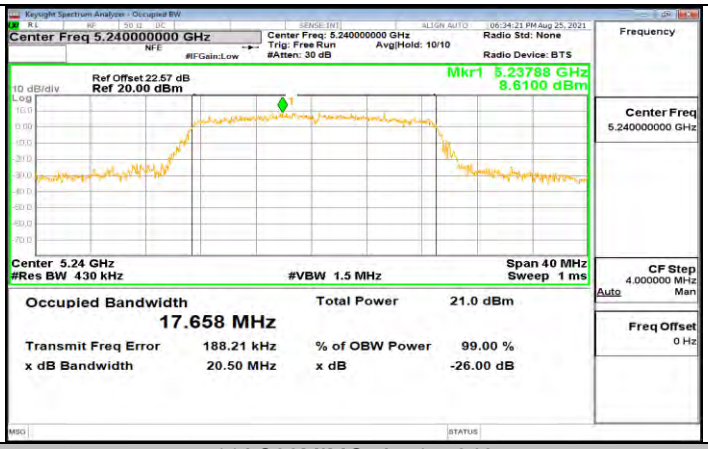


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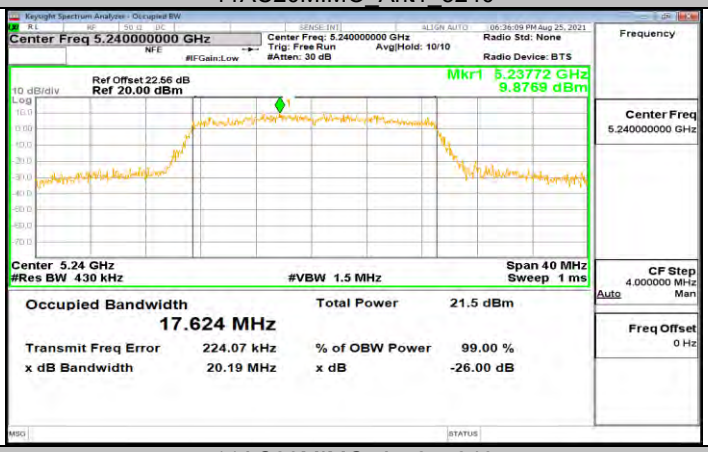


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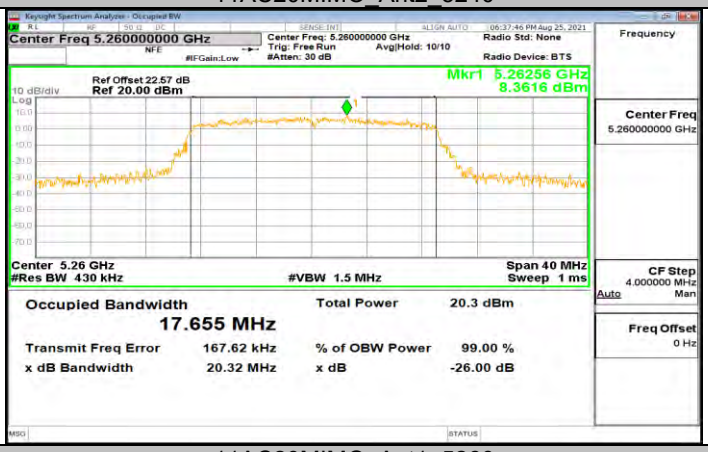


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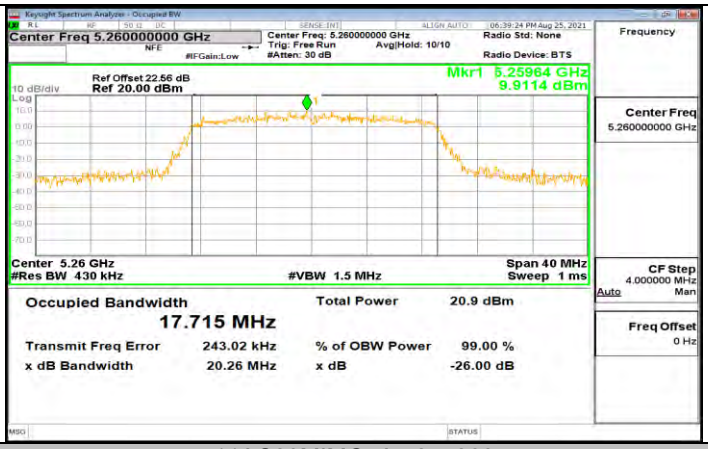


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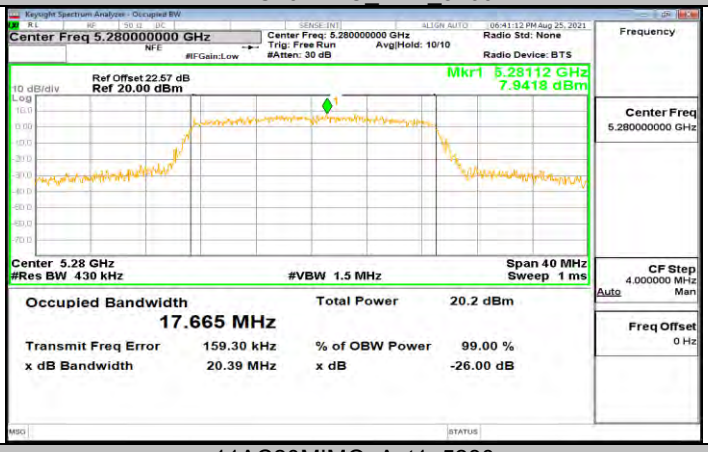


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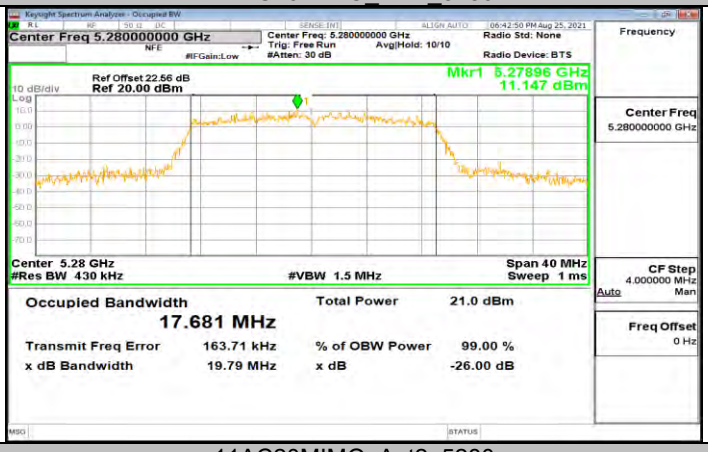


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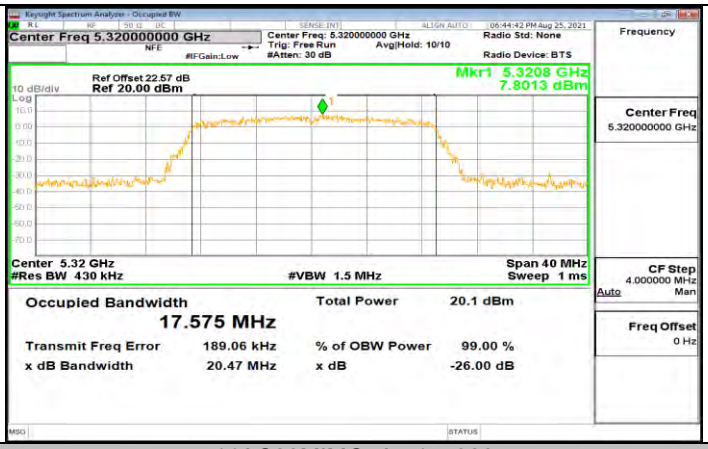


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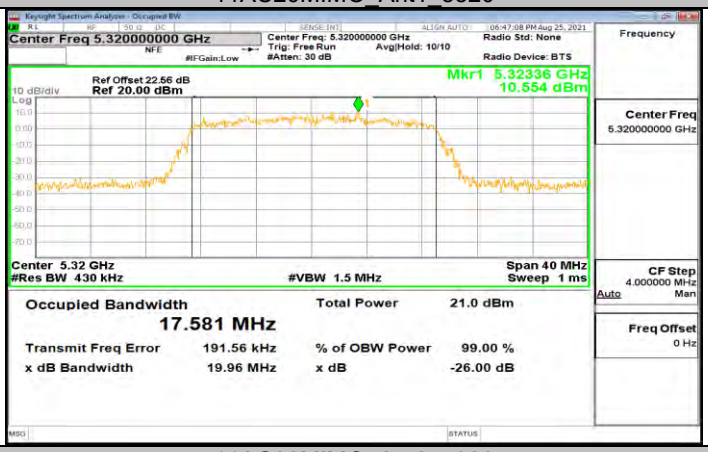


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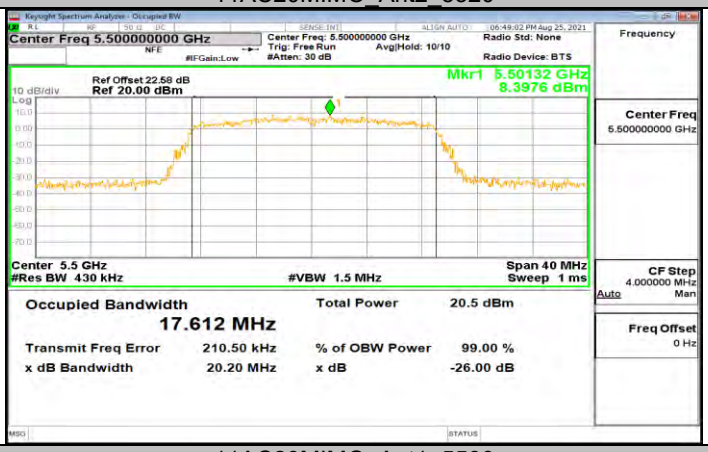


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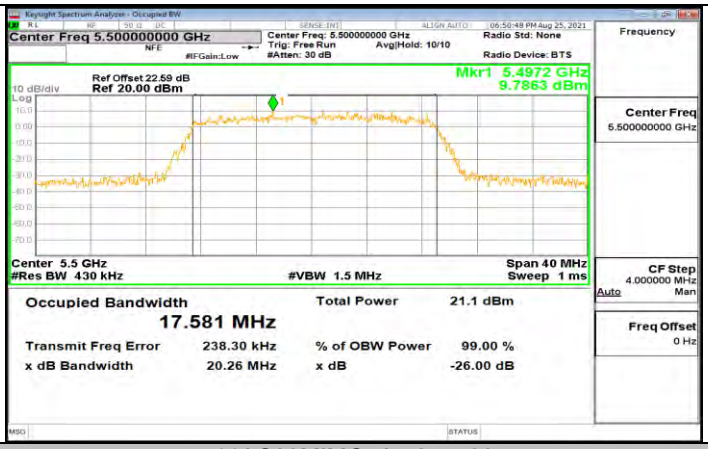


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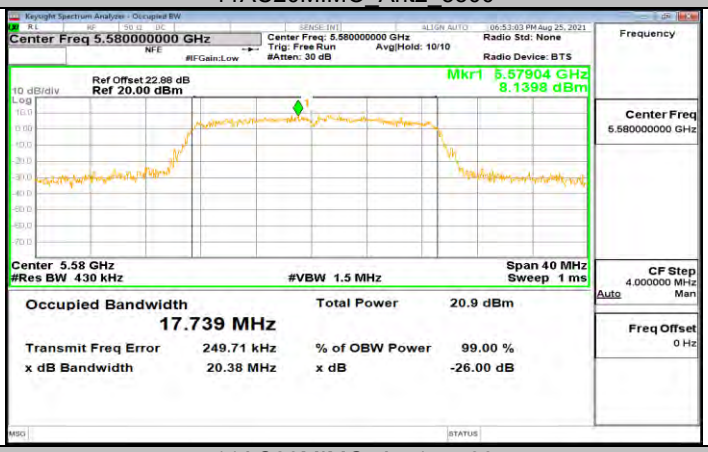


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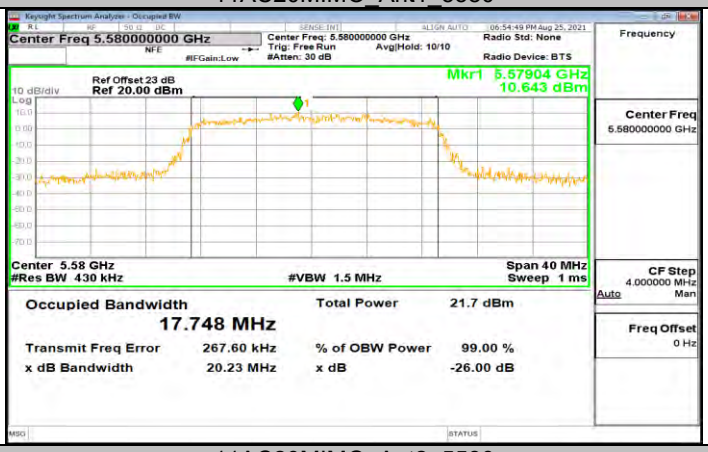


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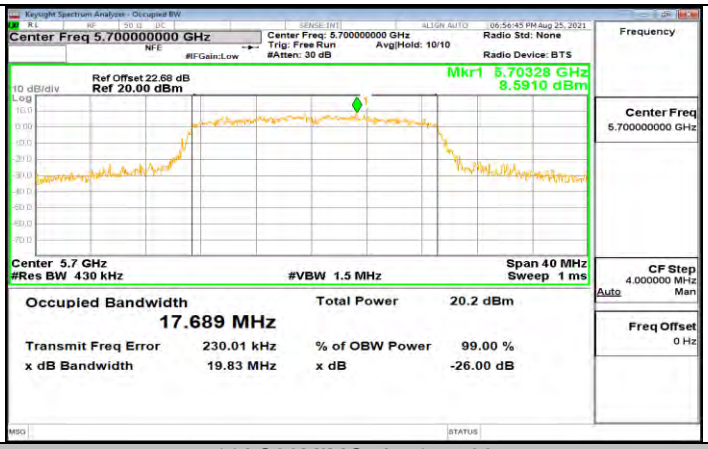


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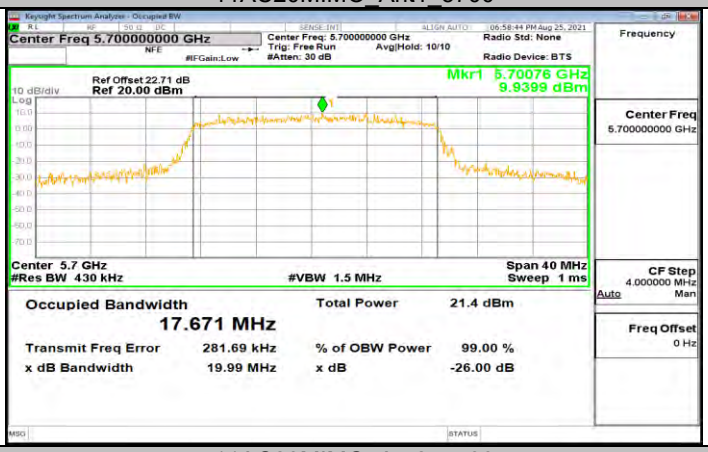


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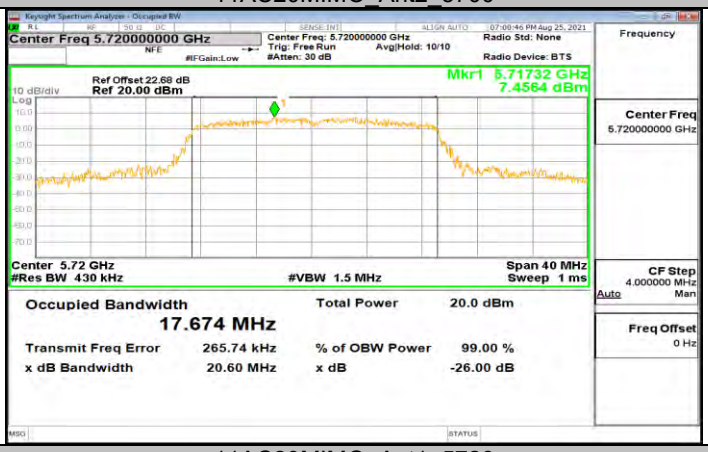


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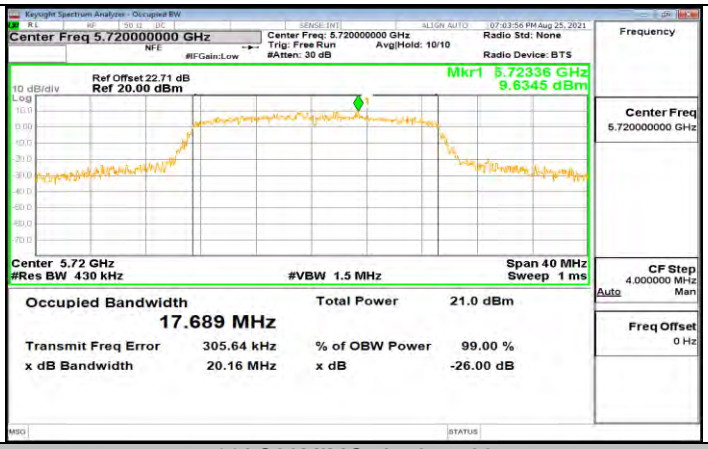


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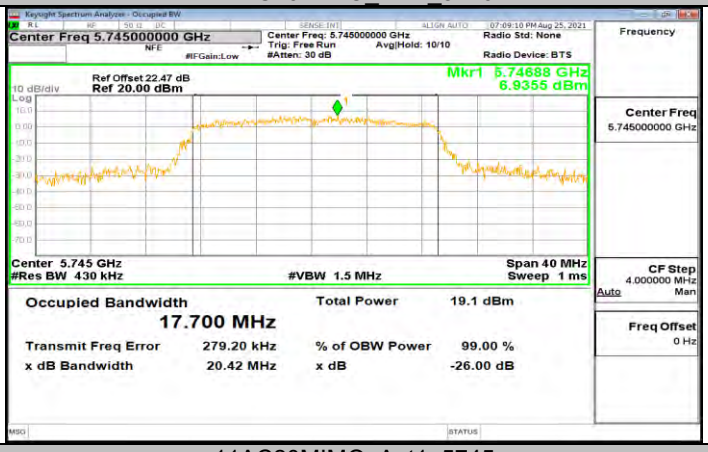


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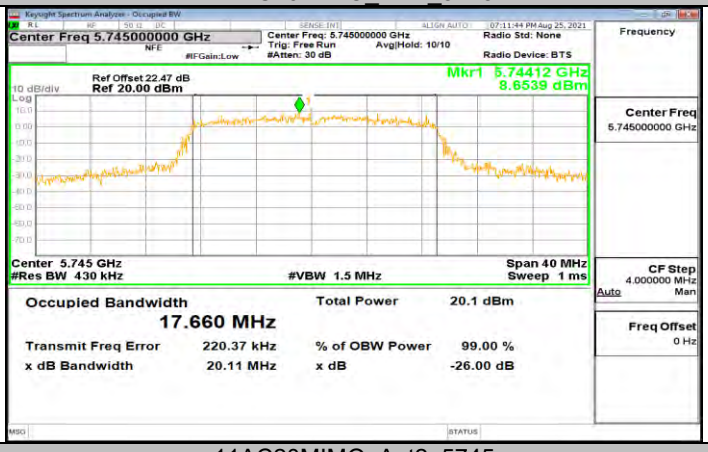


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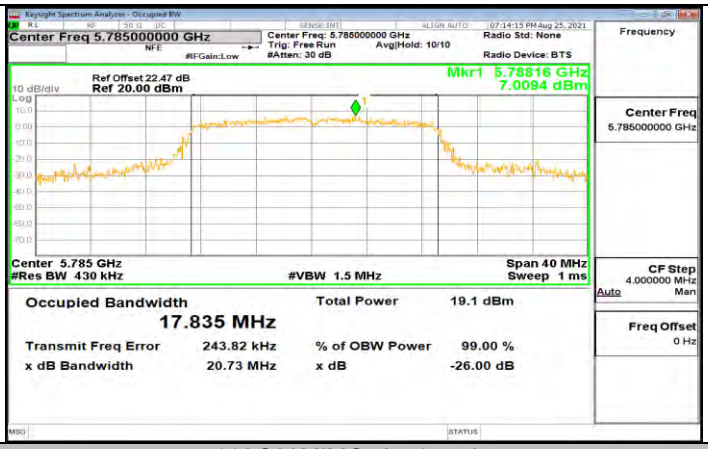


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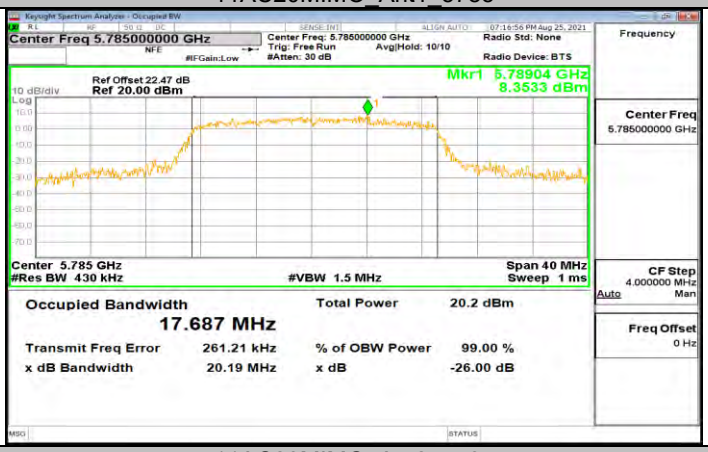


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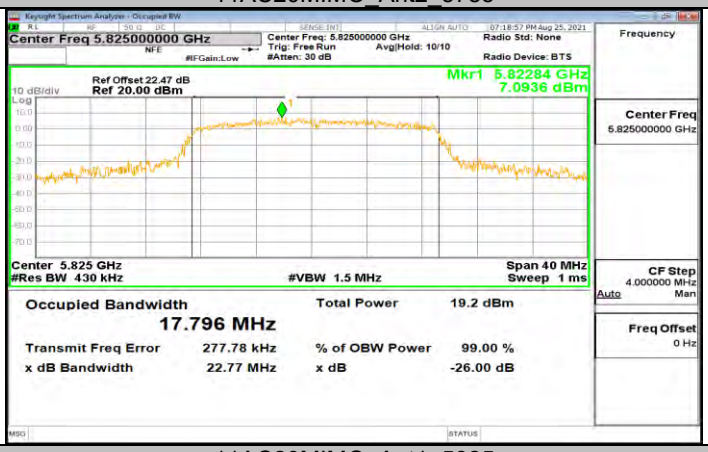


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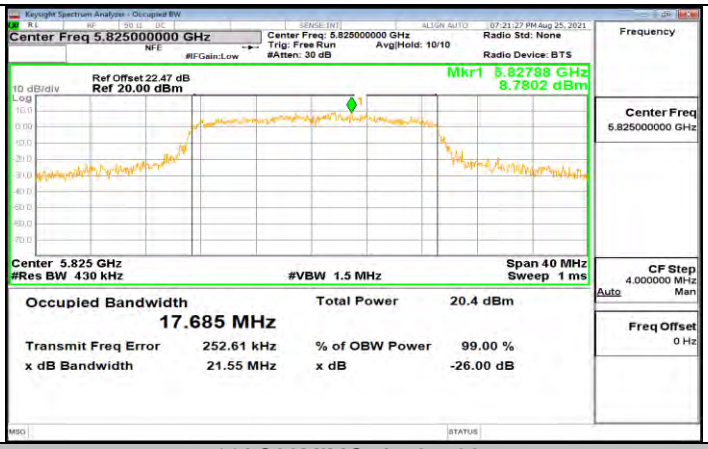


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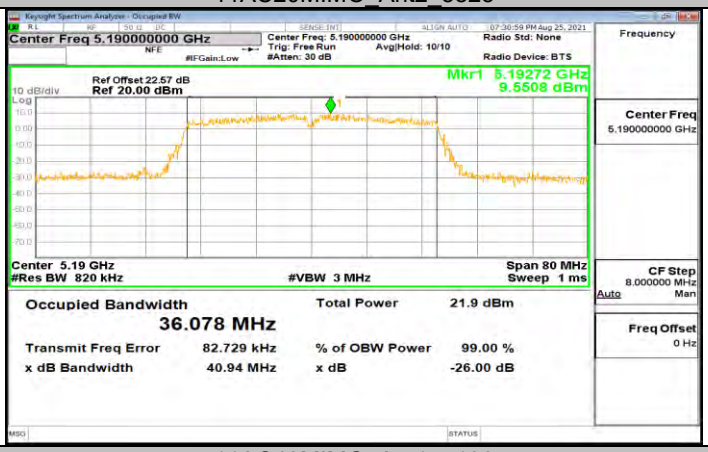


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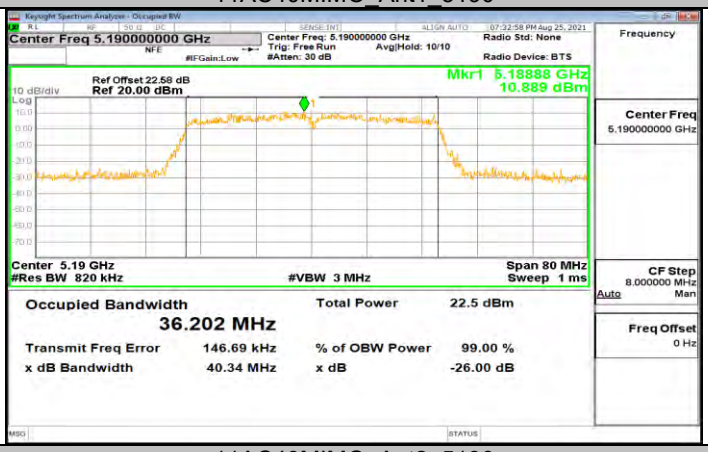


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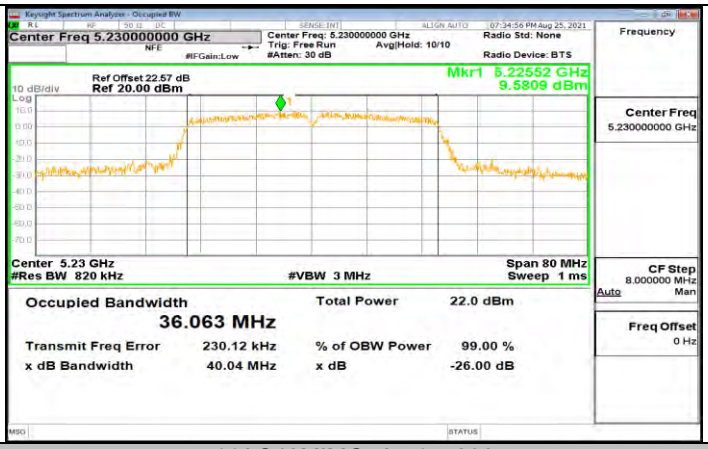


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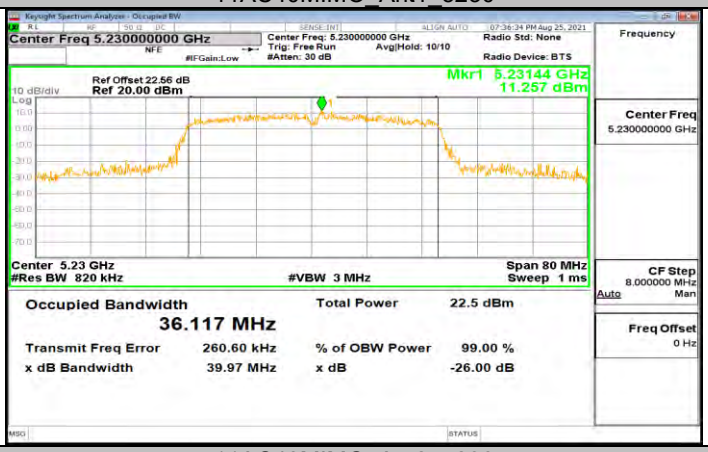


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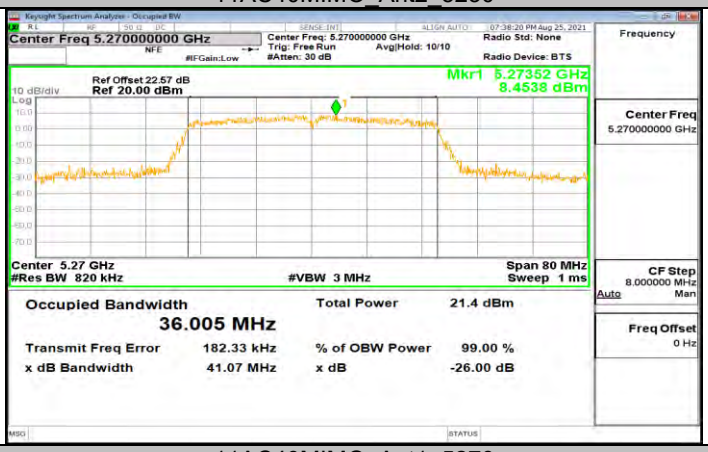


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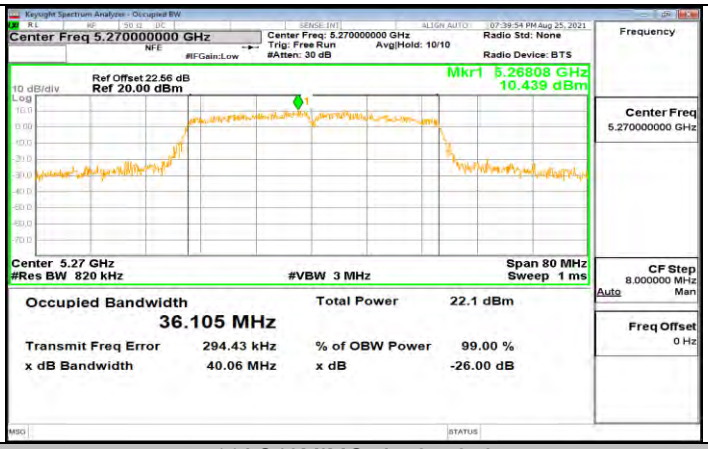


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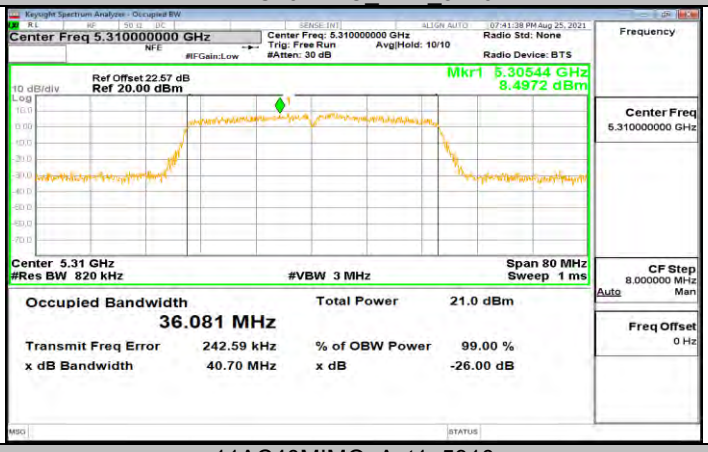


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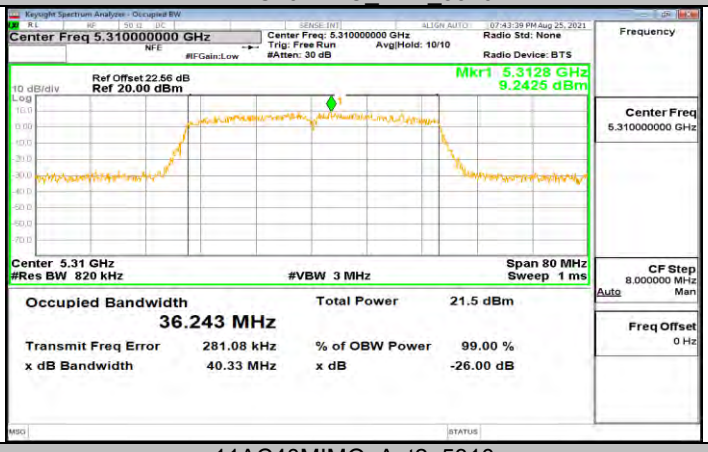


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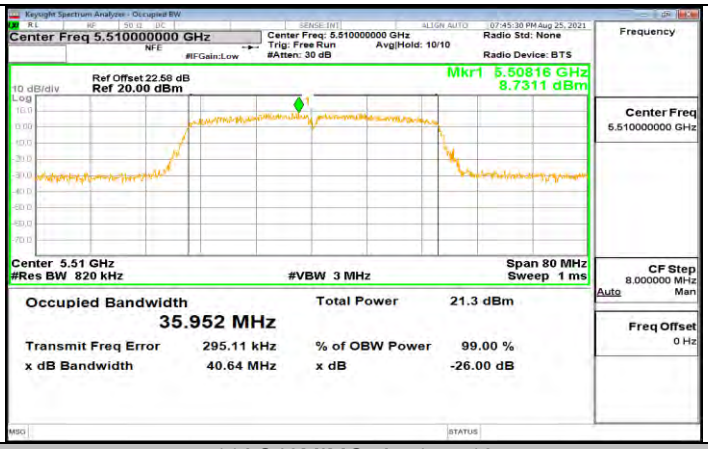


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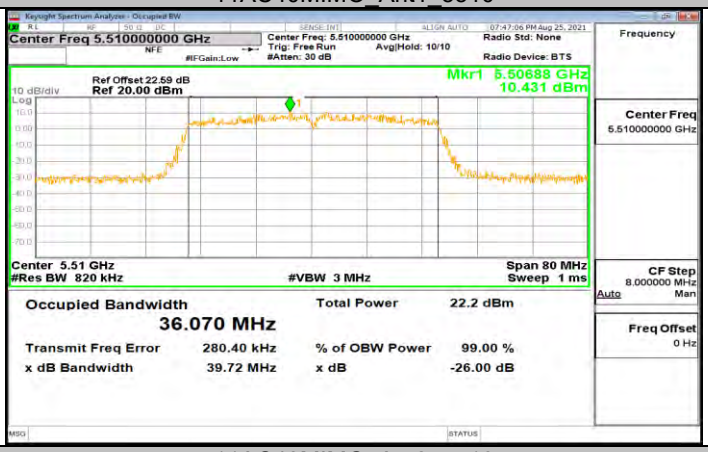


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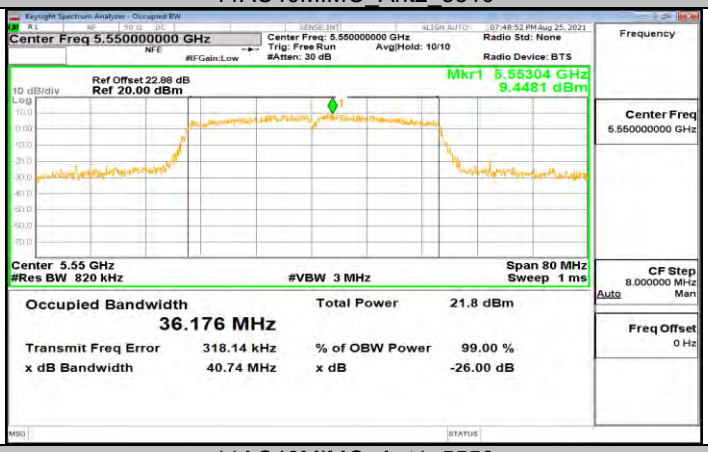


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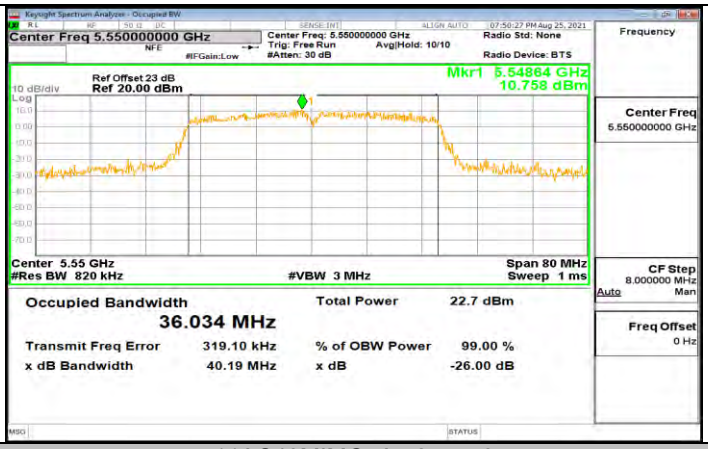


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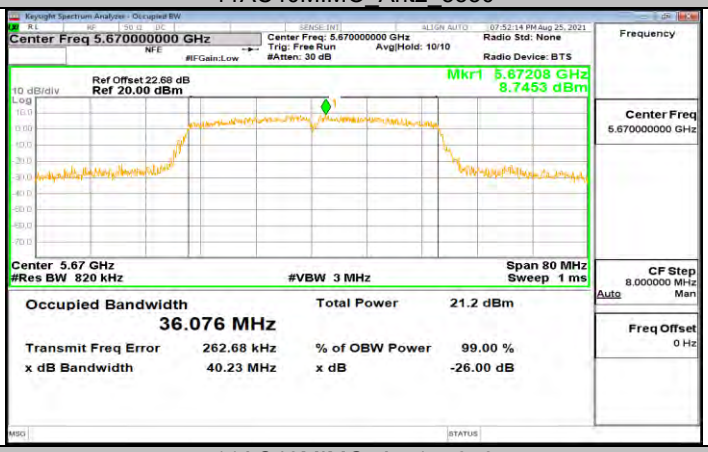


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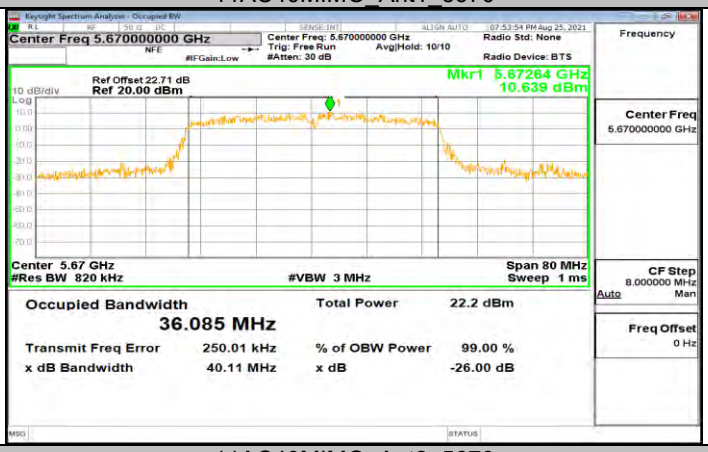


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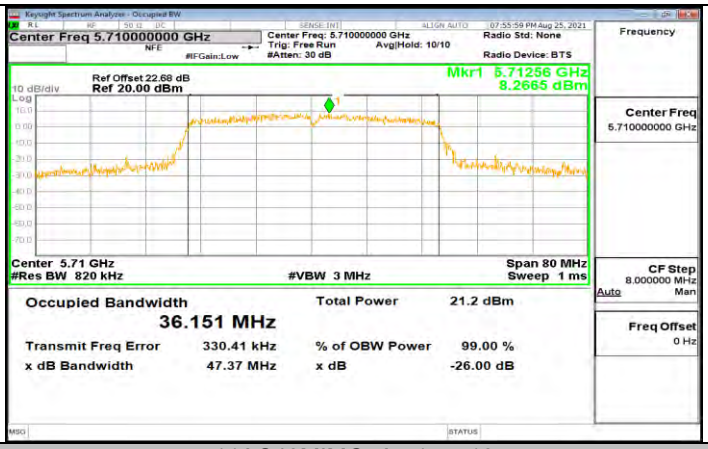


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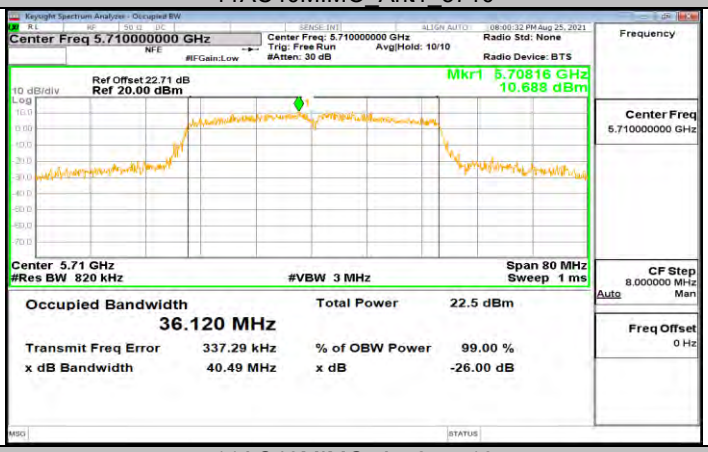


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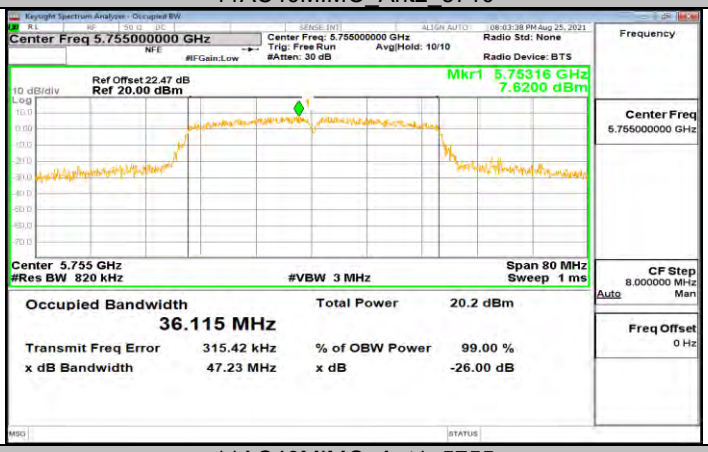


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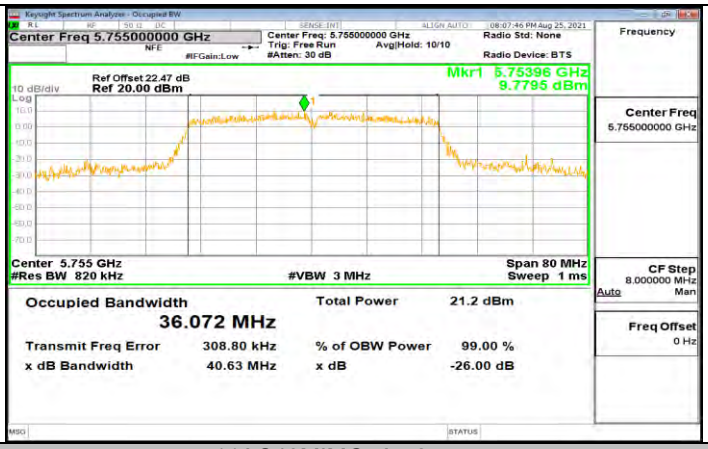


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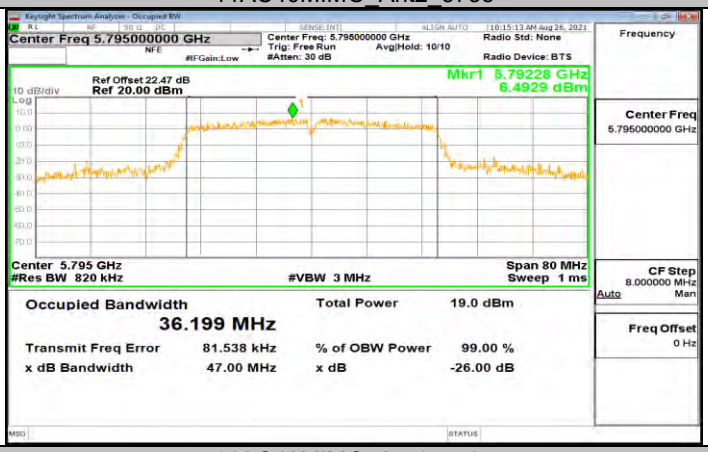


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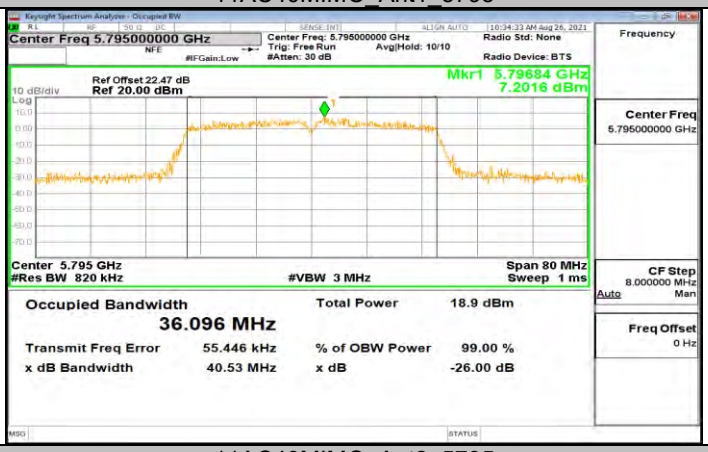


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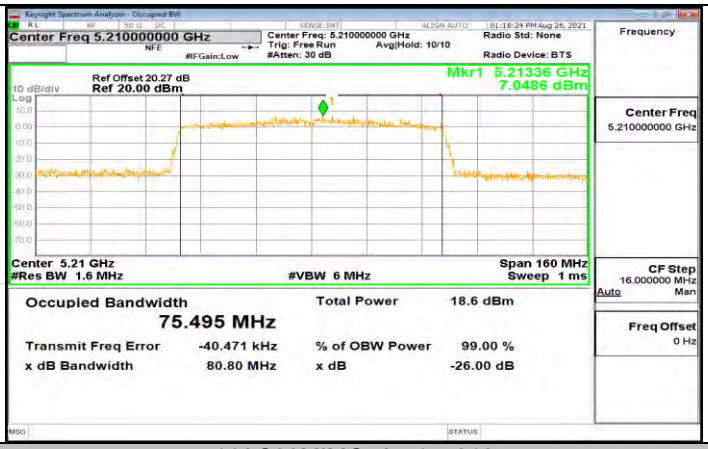
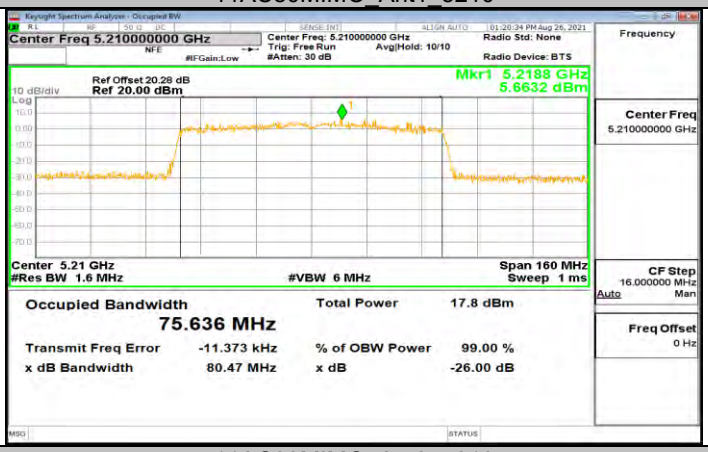
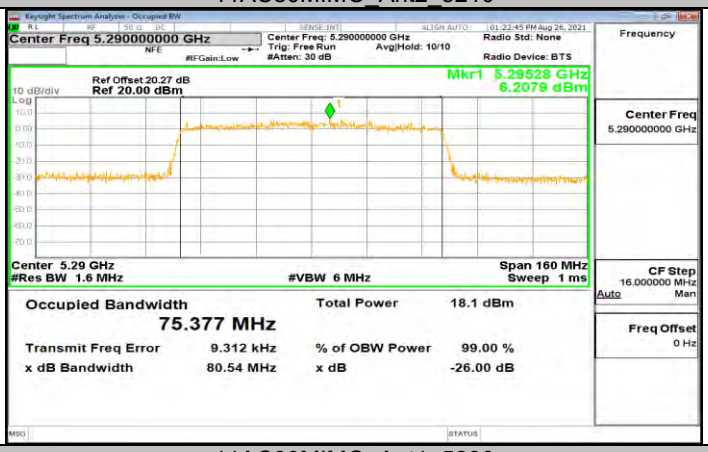



11AC80MIMO_Ant1_5210




11AC80MIMO_Ant2_5210




11AC80MIMO_Ant1_5290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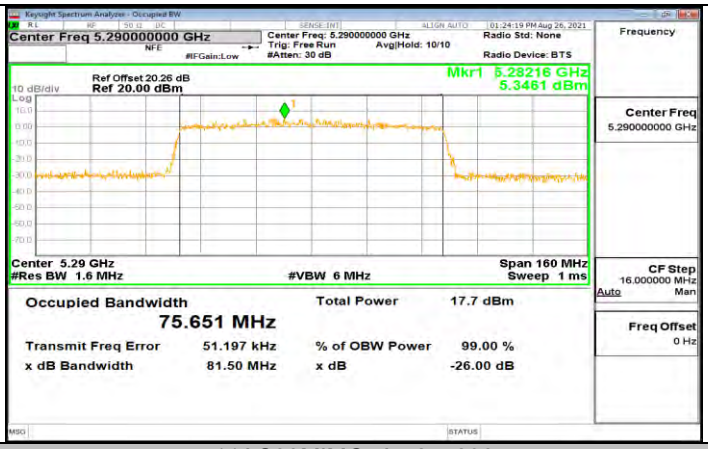
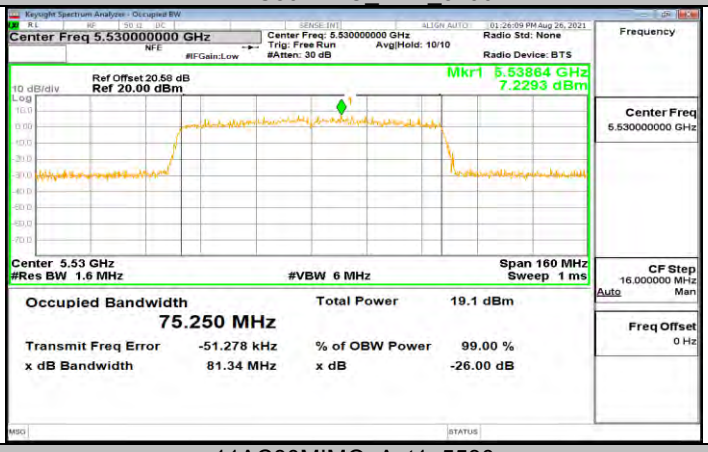
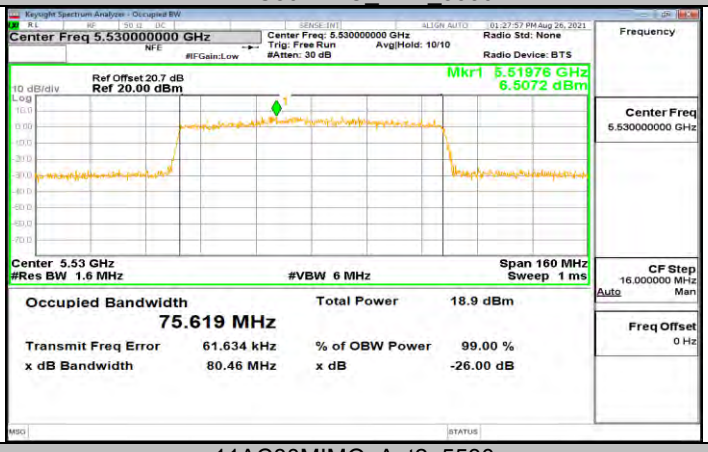



11AC80MIMO_Ant2_5290




11AC80MIMO_Ant1_5530




11AC80MIMO_Ant2_5530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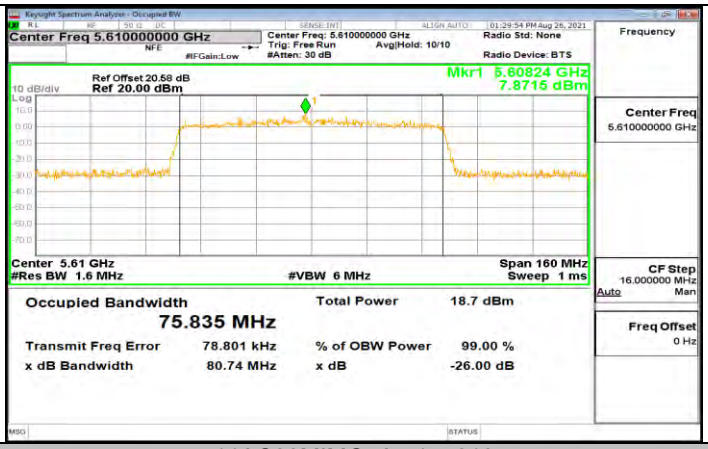
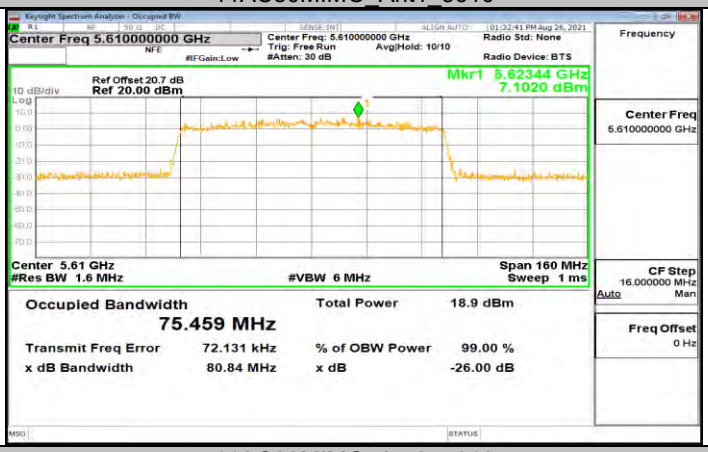
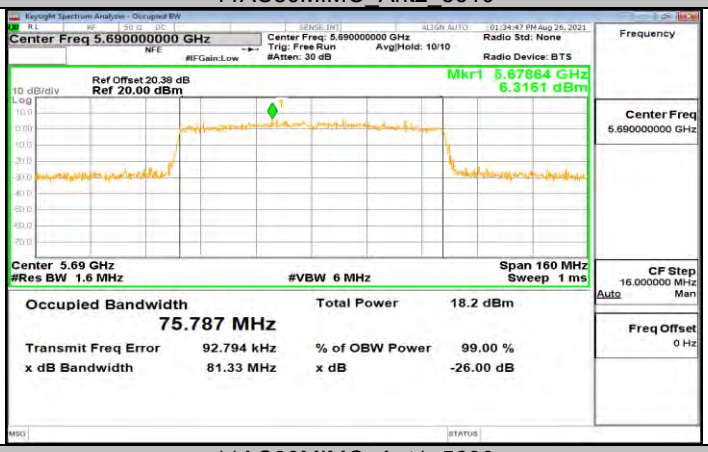



11AC80MIMO_Ant1_5610




11AC80MIMO_Ant2_5610




11AC80MIMO_Ant1_5690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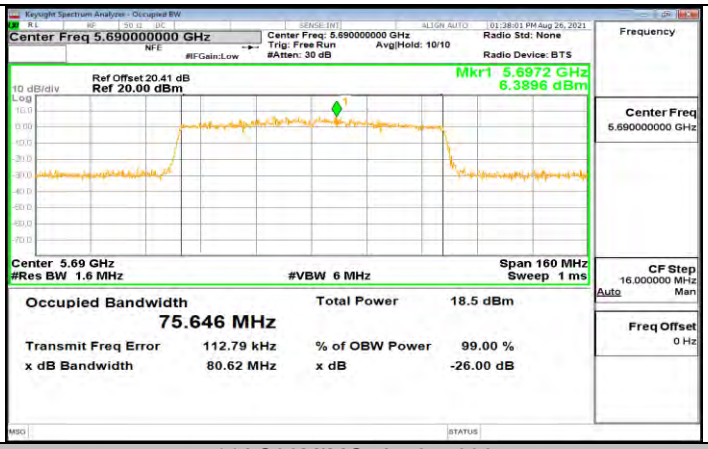
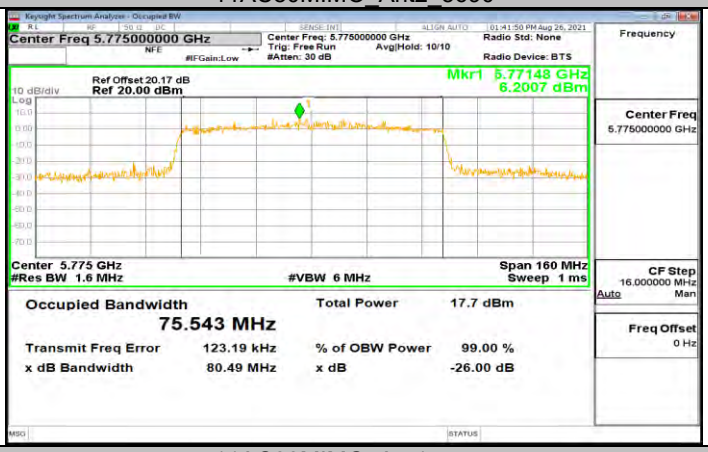
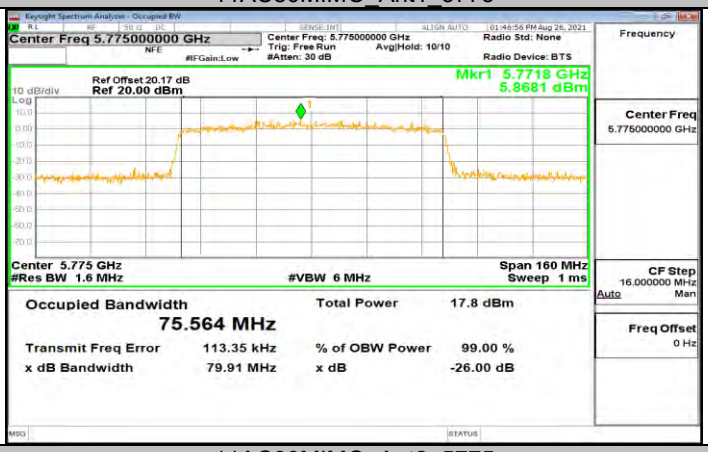



11AC80MIMO_Ant2_5690




11AC80MIMO_Ant1_5775




11AC80MIMO_Ant2_5775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## 13.3. Appendix A3: Min emission bandwidth

### 13.3.1. Test Result

| Test Mode | Antenna | Channel | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5720_UNII-3 | 3.2 | 5725 | 5728.200 | 0.5 | PASS |
| | Ant2 | 5720_UNII-3 | 3.24 | 5725 | 5728.240 | 0.5 | PASS |
| | Ant1 | 5745 | 16.400 | 5736.800 | 5753.200 | 0.5 | PASS |
| | Ant2 | 5745 | 16.120 | 5736.840 | 5752.960 | 0.5 | PASS |
| | Ant1 | 5785 | 16.160 | 5777.040 | 5793.200 | 0.5 | PASS |
| | Ant2 | 5785 | 16.440 | 5776.800 | 5793.240 | 0.5 | PASS |
| | Ant1 | 5825 | 15.960 | 5817.200 | 5833.160 | 0.5 | PASS |
| | Ant2 | 5825 | 16.360 | 5816.840 | 5833.200 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 5720_UNII-3 | 4.32 | 5725 | 5729.320 | 0.5 | PASS |
| | Ant2 | 5720_UNII-3 | 4.32 | 5725 | 5729.320 | 0.5 | PASS |
| | Ant1 | 5745 | 17.000 | 5737.320 | 5754.320 | 0.5 | PASS |
| | Ant2 | 5745 | 17.160 | 5736.600 | 5753.760 | 0.5 | PASS |
| | Ant1 | 5785 | 17.640 | 5776.600 | 5794.240 | 0.5 | PASS |
| | Ant2 | 5785 | 17.640 | 5776.680 | 5794.320 | 0.5 | PASS |
| | Ant1 | 5825 | 17.640 | 5816.560 | 5834.200 | 0.5 | PASS |
| | Ant2 | 5825 | 17.160 | 5816.760 | 5833.920 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 5710_UNII-3 | 2.76 | 5725 | 5727.760 | 0.5 | PASS |
| | Ant2 | 5710_UNII-3 | 2.84 | 5725 | 5727.840 | 0.5 | PASS |
| | Ant1 | 5755 | 35.440 | 5737.320 | 5772.760 | 0.5 | PASS |
| | Ant2 | 5755 | 35.840 | 5737.000 | 5772.840 | 0.5 | PASS |
| | Ant1 | 5795 | 36.480 | 5776.920 | 5813.400 | 0.5 | PASS |
| | Ant2 | 5795 | 36.160 | 5777.000 | 5813.160 | 0.5 | PASS |
| 11AC20MIMO | Ant1 | 5720_UNII-3 | 3.44 | 5725 | 5728.440 | 0.5 | PASS |
| | Ant2 | 5720_UNII-3 | 4.12 | 5725 | 5729.120 | 0.5 | PASS |
| | Ant1 | 5745 | 16.960 | 5736.840 | 5753.800 | 0.5 | PASS |
| | Ant2 | 5745 | 16.960 | 5736.480 | 5753.440 | 0.5 | PASS |
| | Ant1 | 5785 | 17.600 | 5776.400 | 5794.000 | 0.5 | PASS |
| | Ant2 | 5785 | 16.760 | 5776.720 | 5793.480 | 0.5 | PASS |
| | Ant1 | 5825 | 17.520 | 5816.560 | 5834.080 | 0.5 | PASS |
| | Ant2 | 5825 | 16.640 | 5817.440 | 5834.080 | 0.5 | PASS |
| 11AC40MIMO | Ant1 | 5710_UNII-3 | 2.84 | 5725 | 5727.840 | 0.5 | PASS |
| | Ant2 | 5710_UNII-3 | 2.92 | 5725 | 5727.920 | 0.5 | PASS |
| | Ant1 | 5755 | 35.120 | 5737.560 | 5772.680 | 0.5 | PASS |
| | Ant2 | 5755 | 35.840 | 5737.640 | 5773.480 | 0.5 | PASS |
| | Ant1 | 5795 | 35.280 | 5777.480 | 5812.760 | 0.5 | PASS |
| | Ant2 | 5795 | 35.280 | 5777.400 | 5812.680 | 0.5 | PASS |
| 11AC80MIMO | Ant1 | 5690_UNII-3 | 2.76 | 5725 | 5727.760 | 0.5 | PASS |
| | Ant2 | 5690_UNII-3 | 2.76 | 5725 | 5727.760 | 0.5 | PASS |
| | Ant1 | 5775 | 76.160 | 5737.240 | 5813.400 | 0.5 | PASS |
| | Ant2 | 5775 | 75.520 | 5737.400 | 5812.920 | 0.5 | PASS |


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### 13.3.2. Test Graphs

11A_Ant1_5720_UNII-3

11A_Ant2_5720_UNII-3

11A_Ant1_5745


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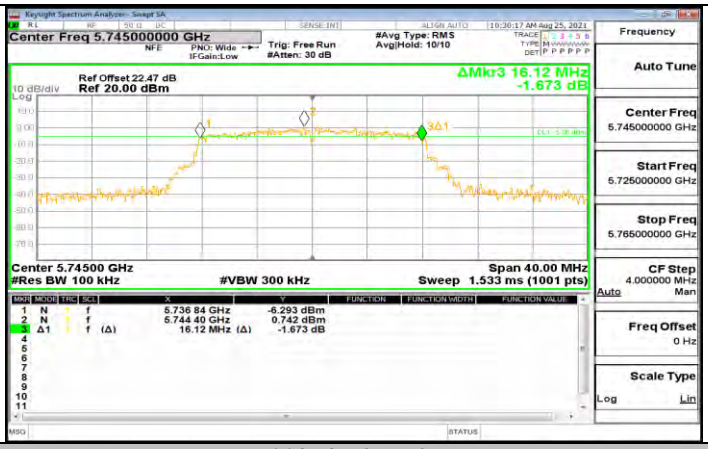


11A_Ant2_5745

11A_Ant1_5785

11A_Ant2_5785


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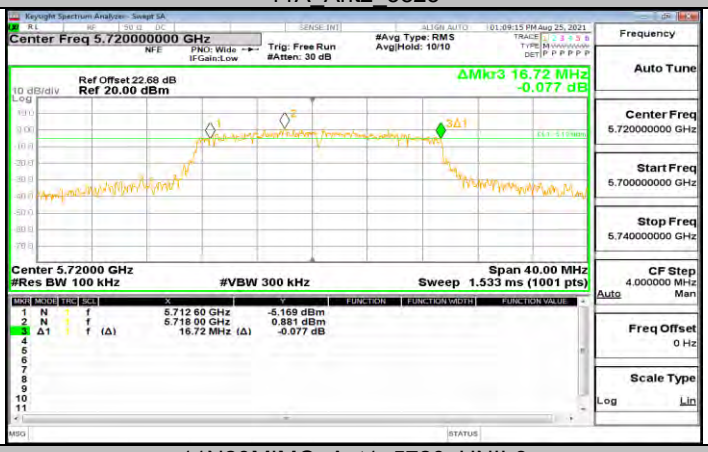
11A_Ant1_5825

11A_Ant2_5825




11N20MIMO_Ant1_5720_UNII-3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11N20MIMO_Ant2_5720_UNII-3

11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745


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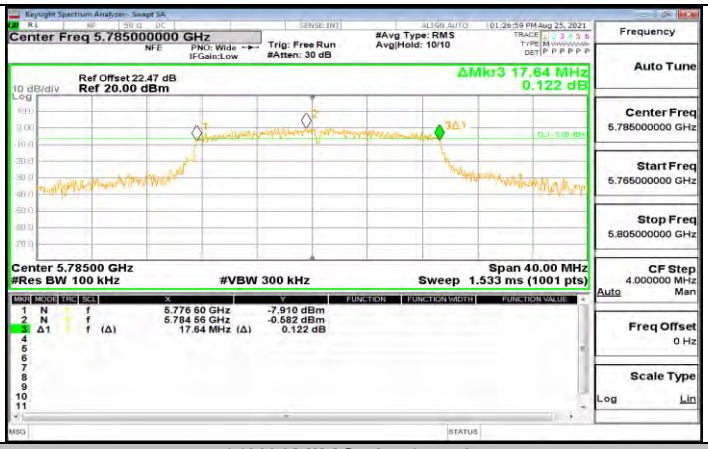


11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785

11N20MIMO_Ant1_5825


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11N20MIMO_Ant2_5825

11N40MIMO_Ant1_5710_UNII-3

11N40MIMO_Ant2_5710_UNII-3


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11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755

11N40MIMO_Ant1_5795


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11N40MIMO_Ant2_5795

11AC20MIMO_Ant1_5720_UNII-3

11AC20MIMO_Ant2_5720_UNII-3


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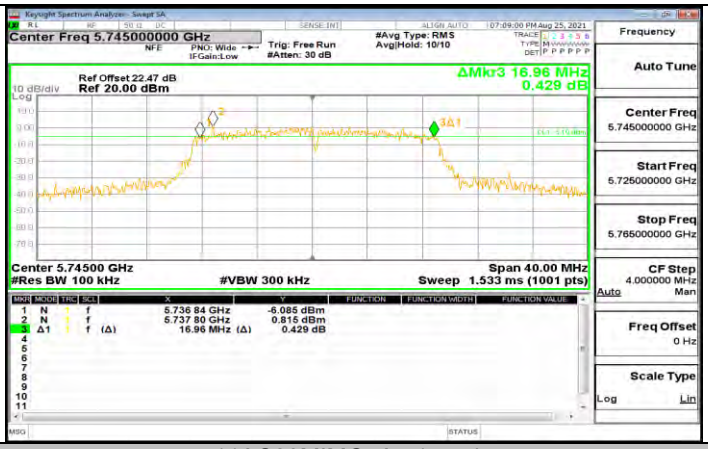
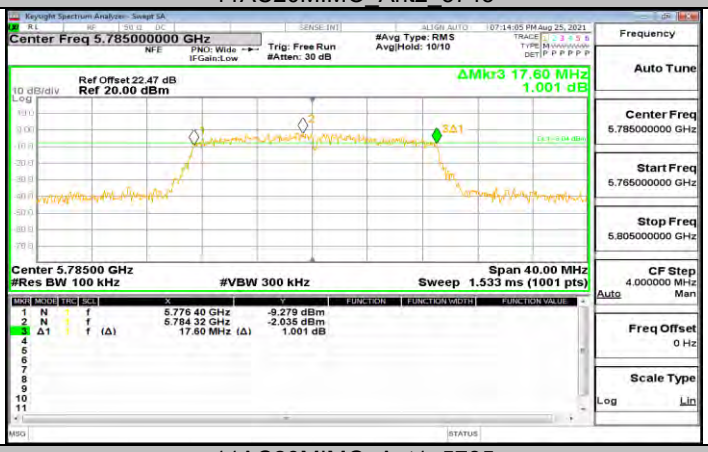



11AC20MIMO_Ant1_5745

11AC20MIMO_Ant2_5745




11AC20MIMO_Ant1_5785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11AC20MIMO_Ant2_5785

11AC20MIMO_Ant1_5825

11AC20MIMO_Ant2_5825


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11AC40MIMO_Ant1_5710_UNII-3

11AC40MIMO_Ant2_5710_UNII-3

11AC40MIMO_Ant1_5755


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11AC40MIMO_Ant2_5755

11AC40MIMO_Ant1_5795

11AC40MIMO_Ant2_5795


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