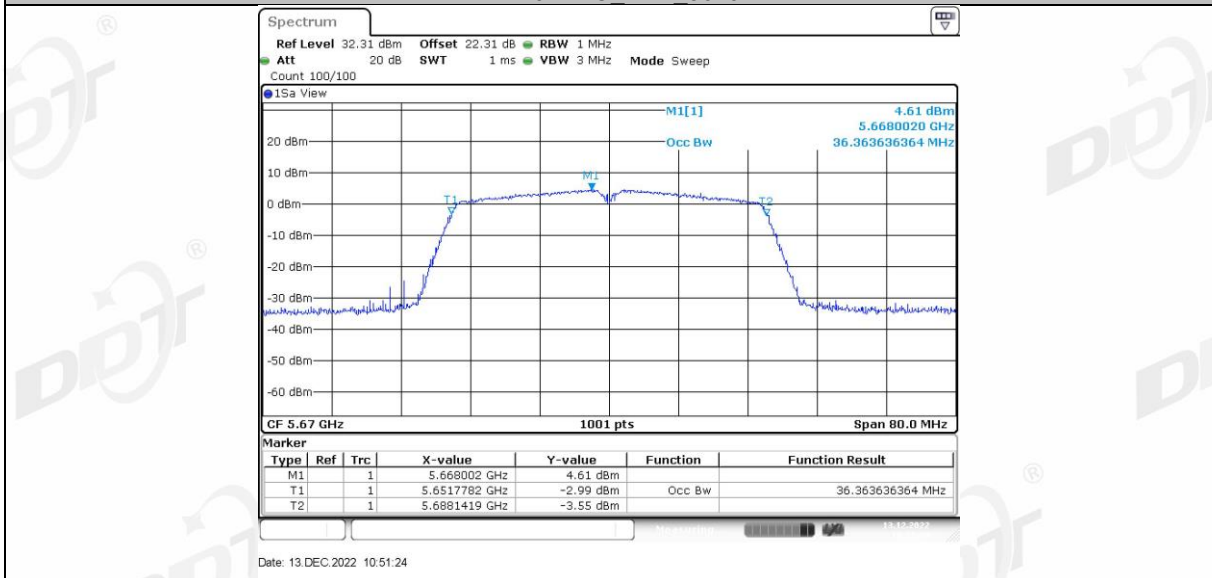
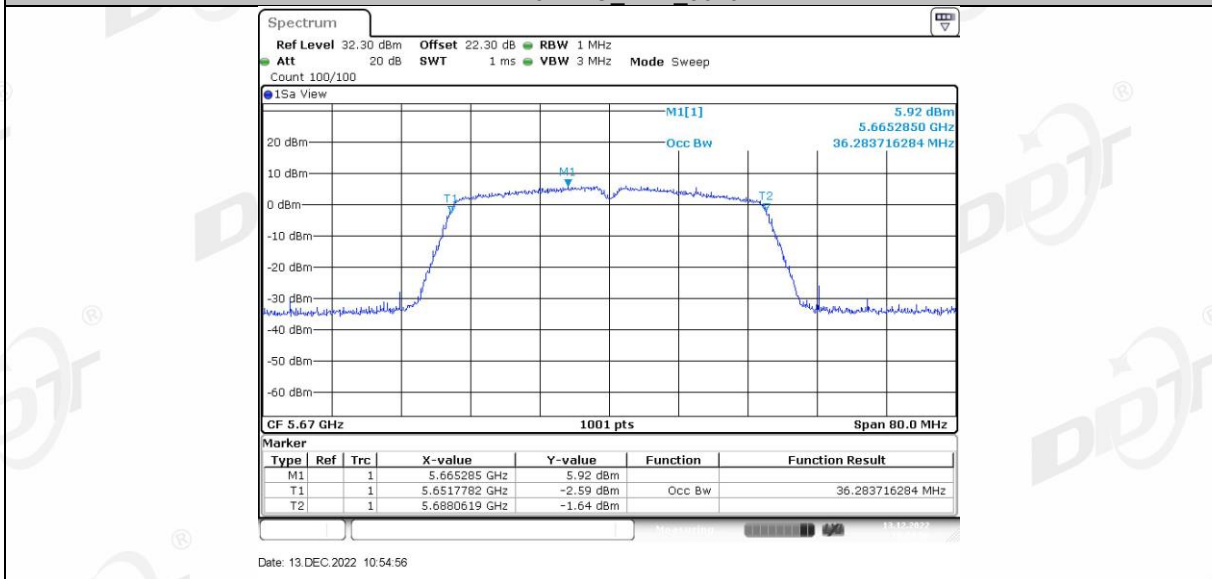


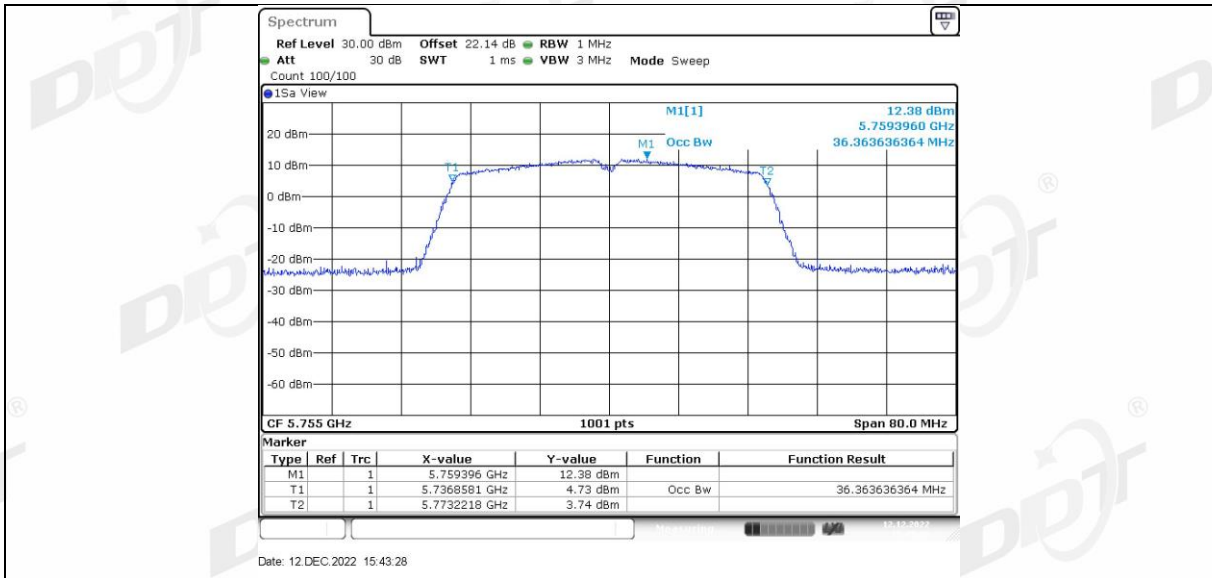
11N40MIMO Ant1 5670



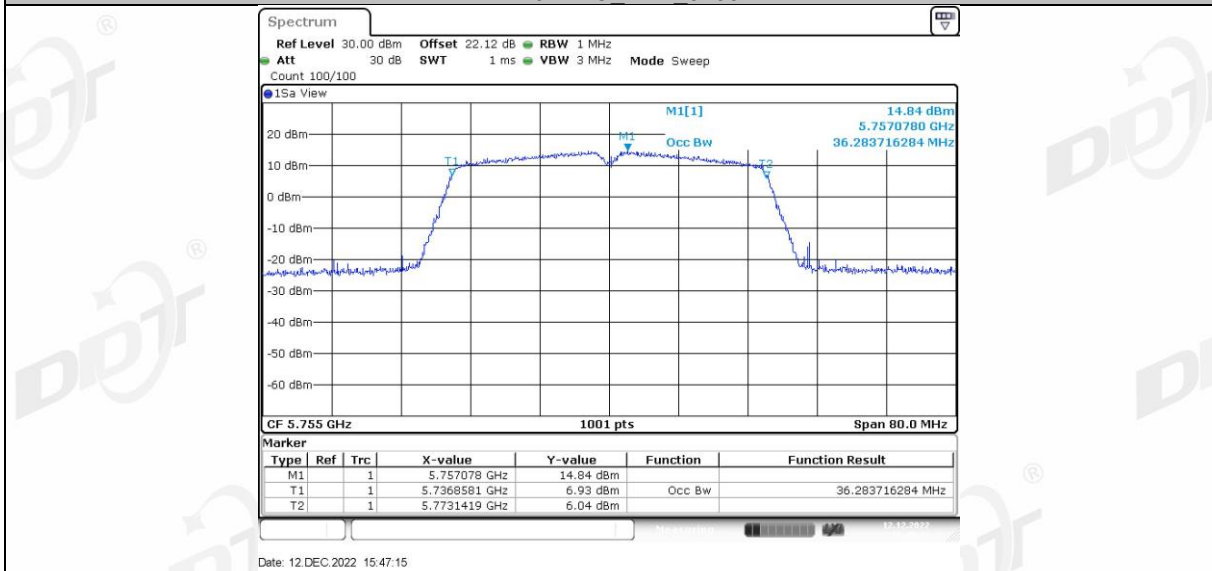
11N40MIMO Ant2 5670



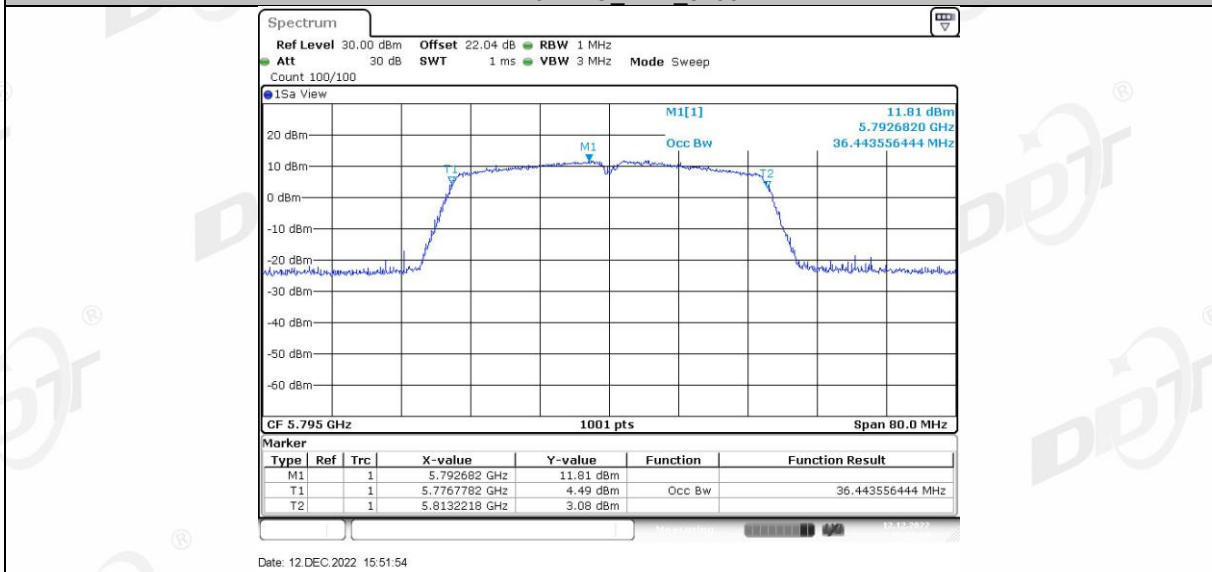
11N40MIMO Ant1 5755



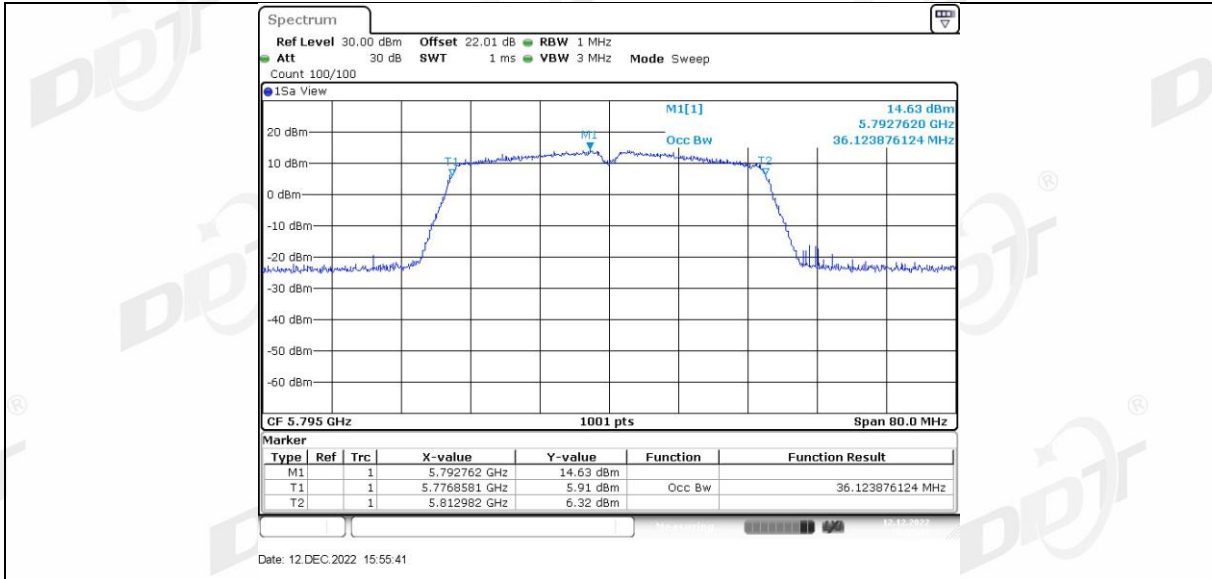
11N40MIMO Ant2 5755



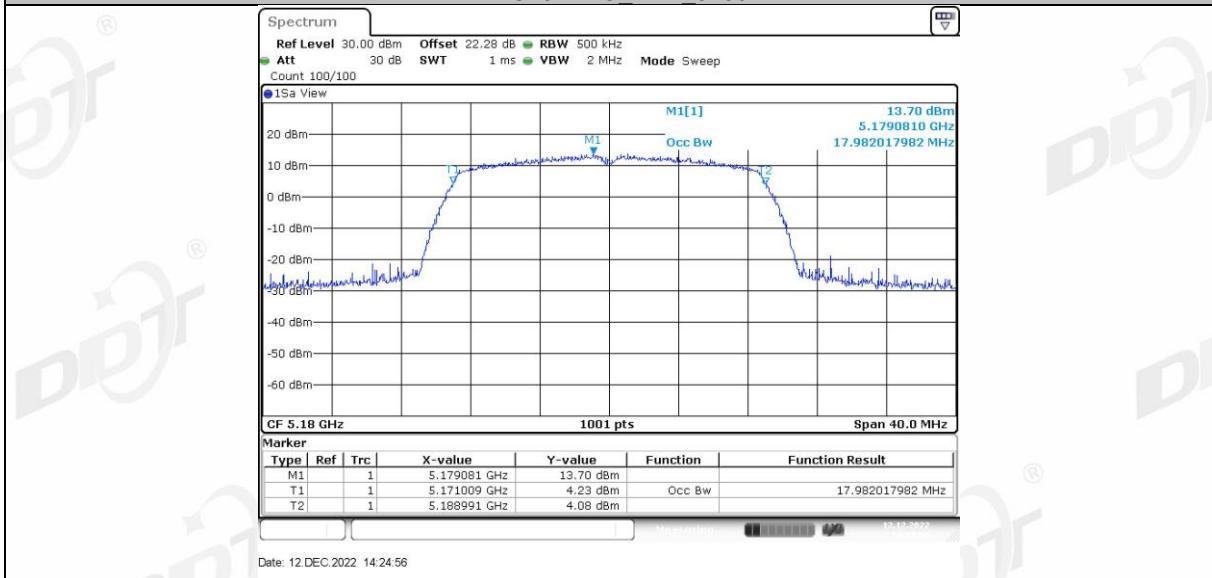
11N40MIMO Ant1 5795



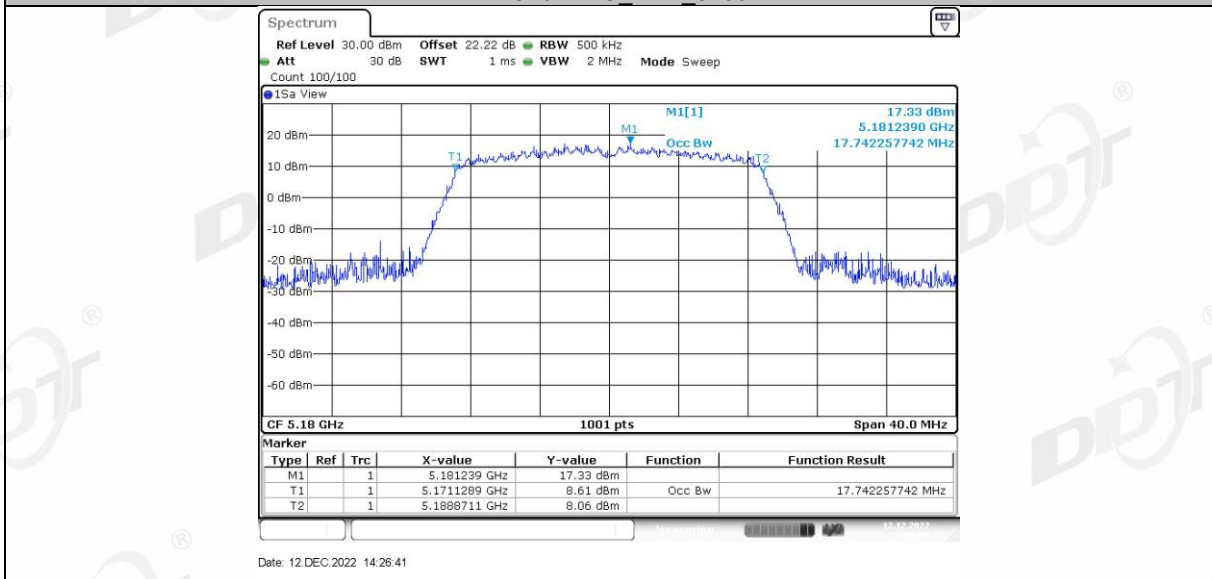
11N40MIMO Ant2 5795



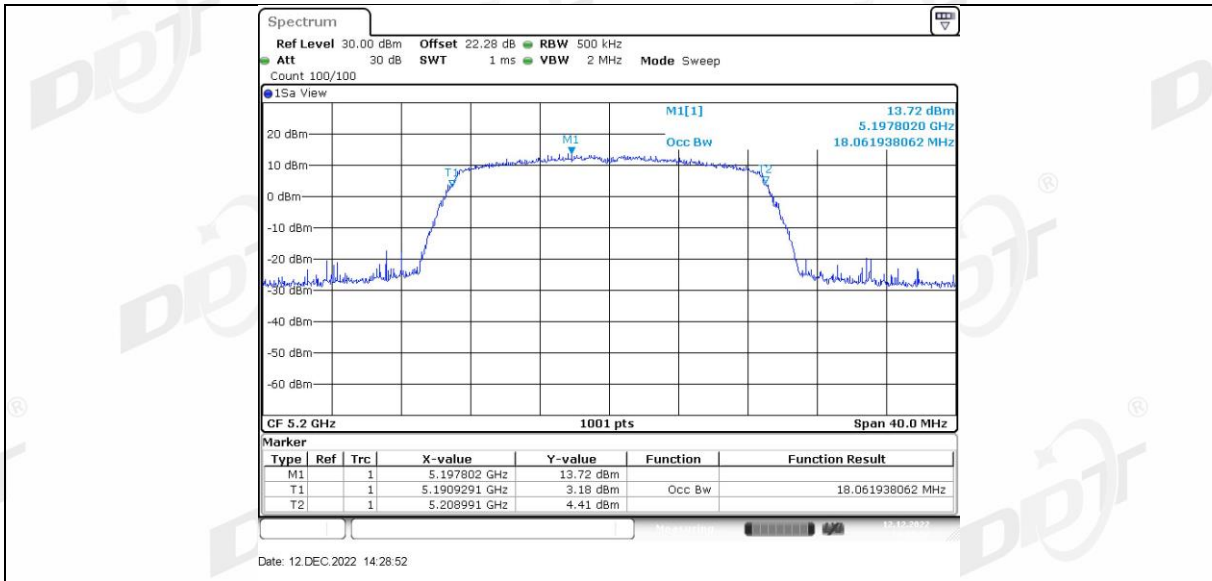
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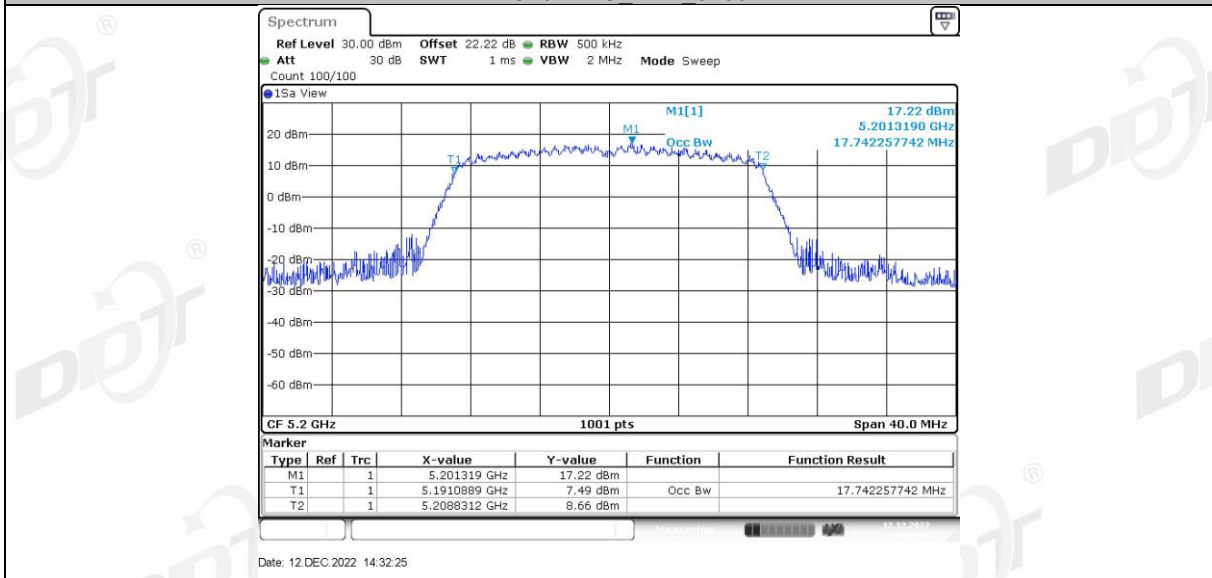
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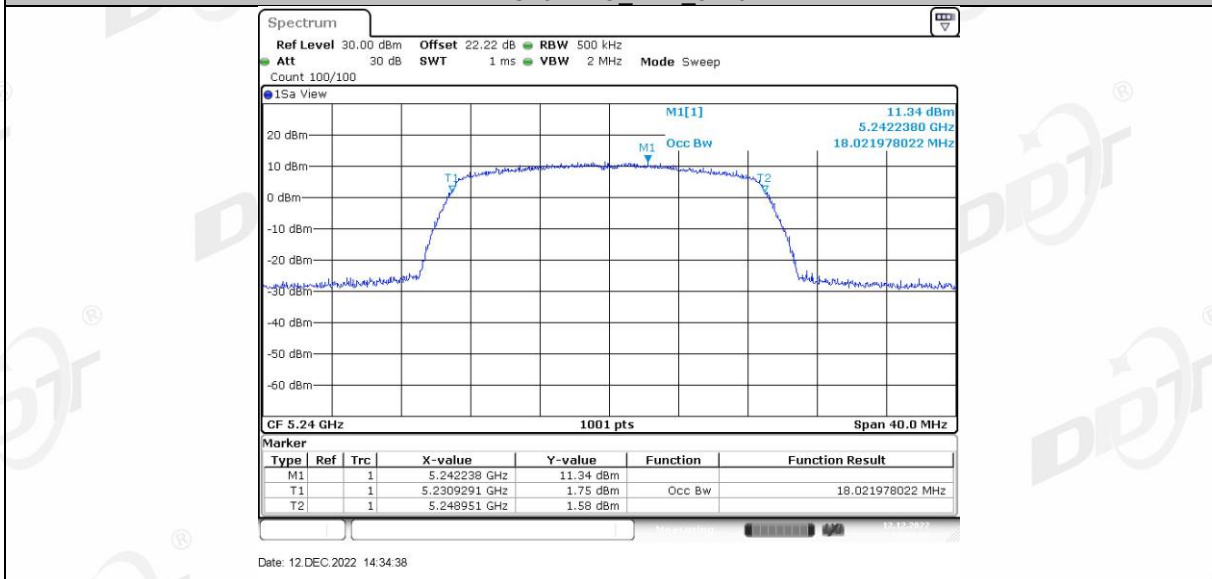
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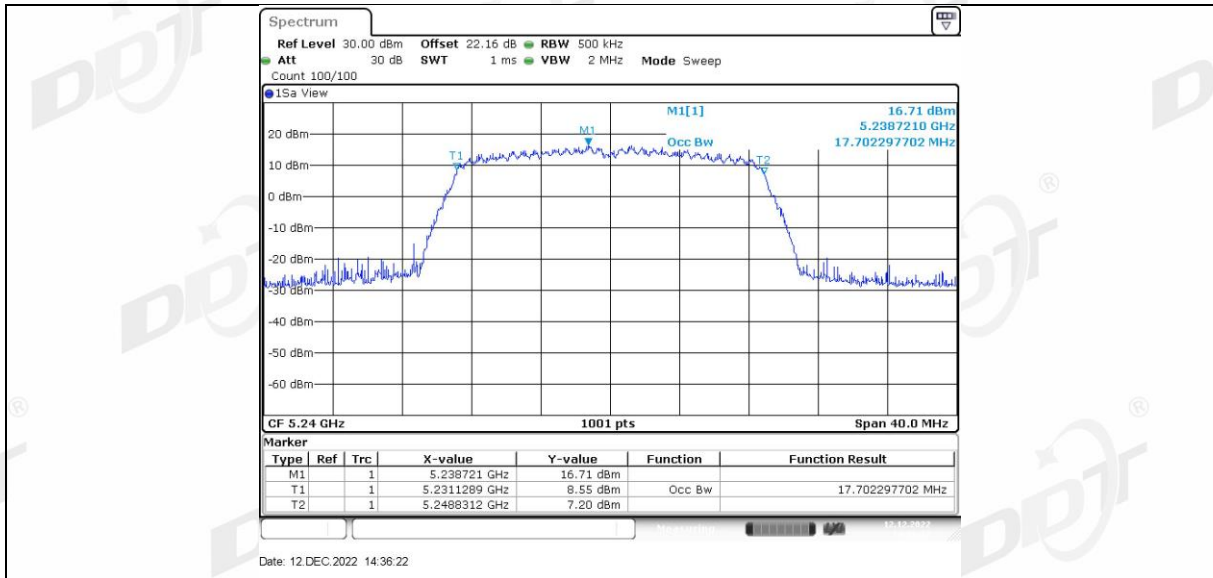
11AC20MIMO Ant2_5200



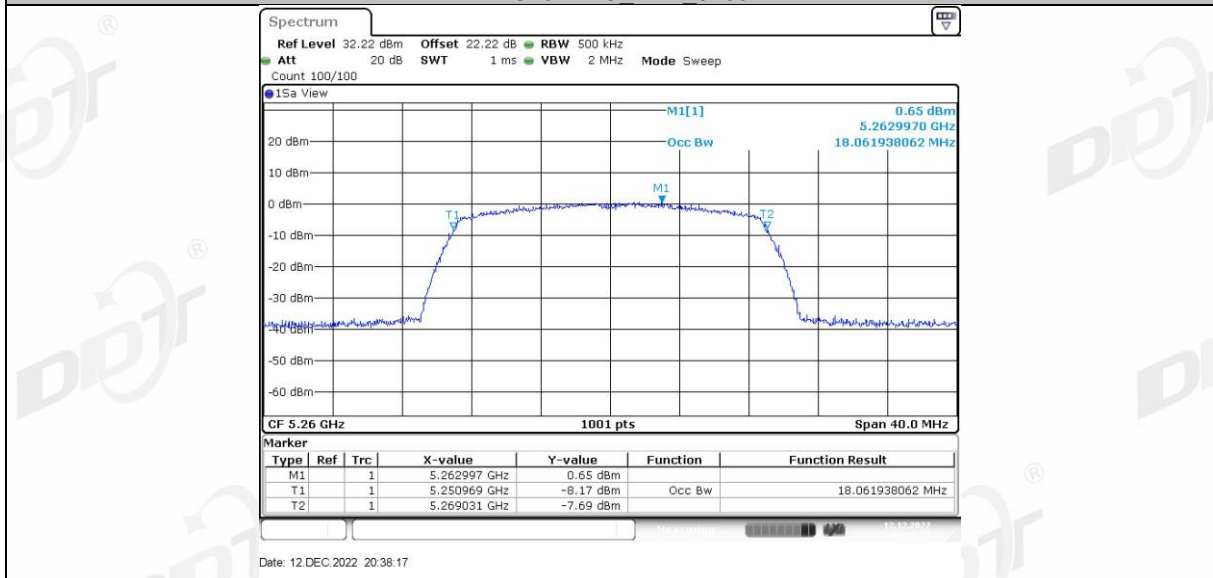
11AC20MIMO Ant1_5240



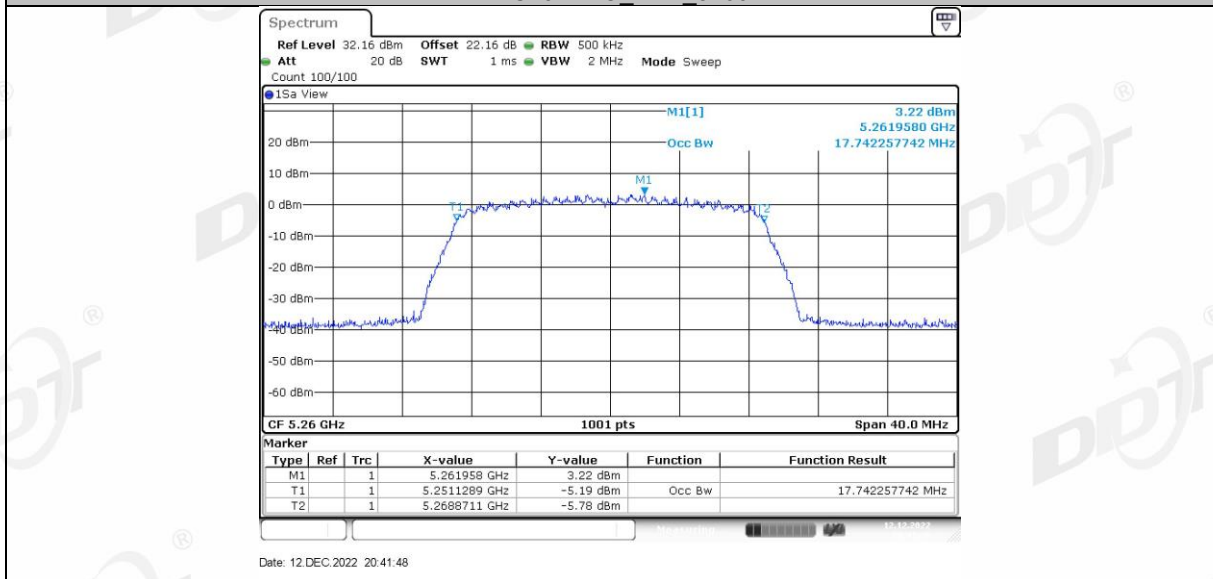
11AC20MIMO Ant2_5240



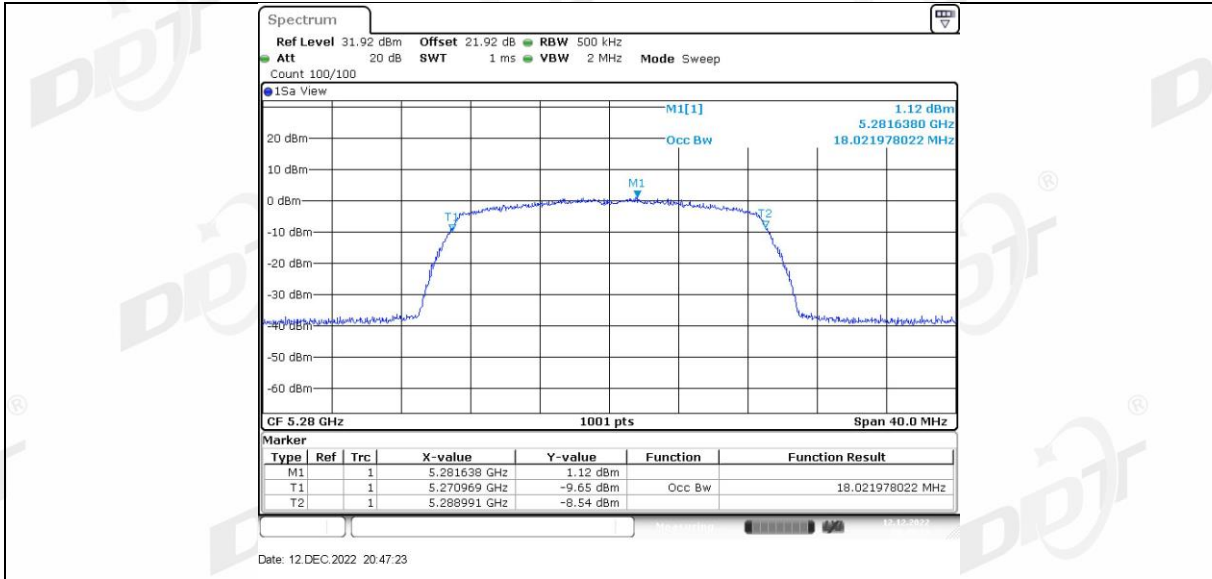
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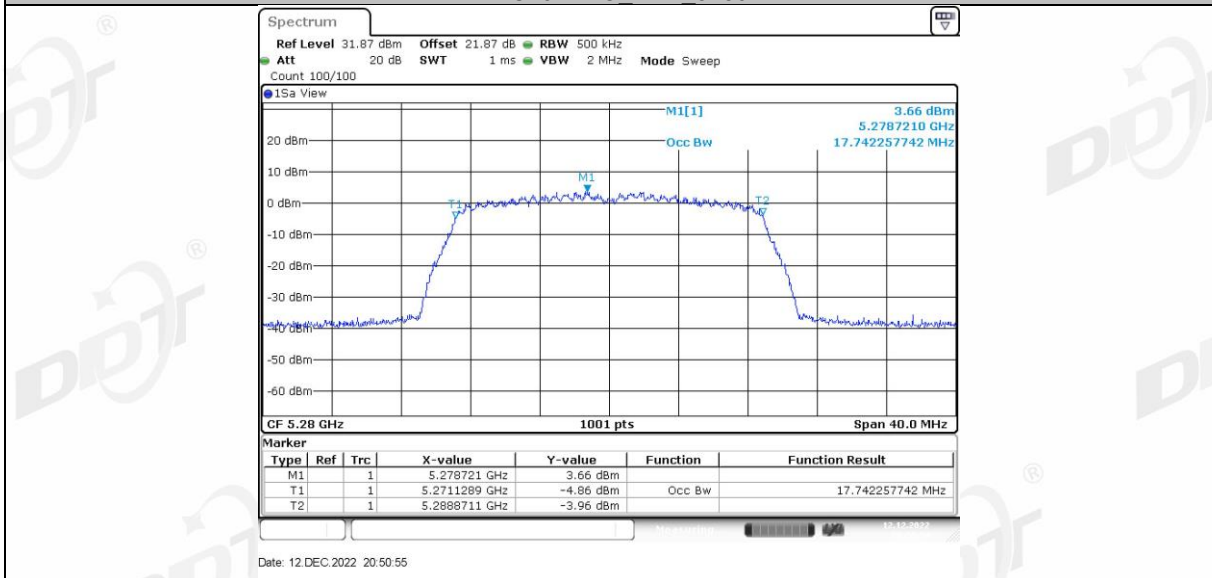
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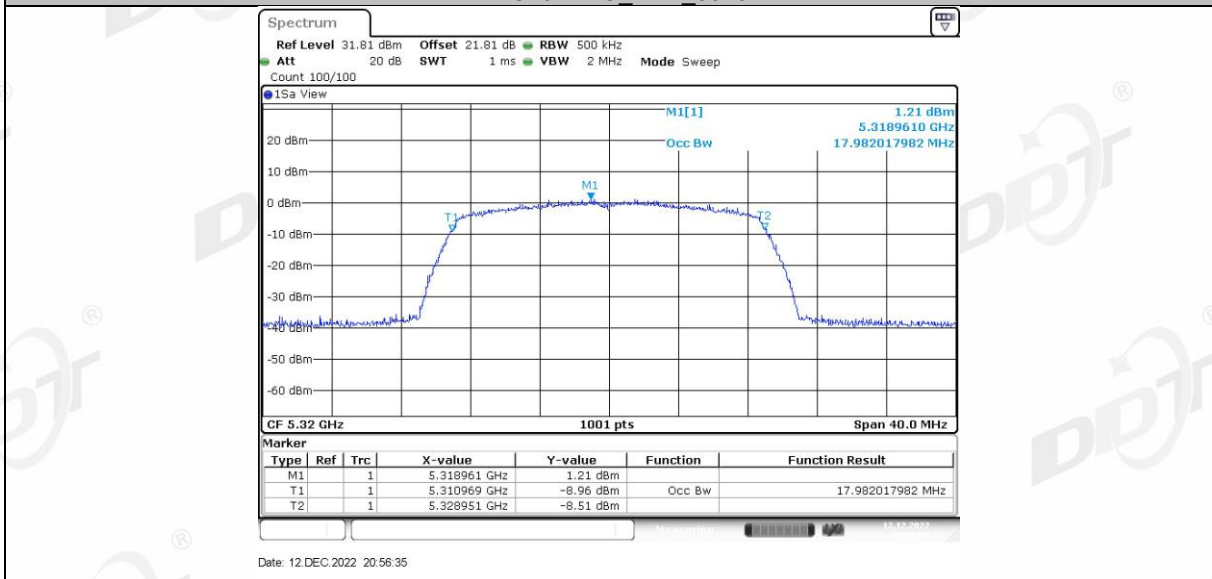
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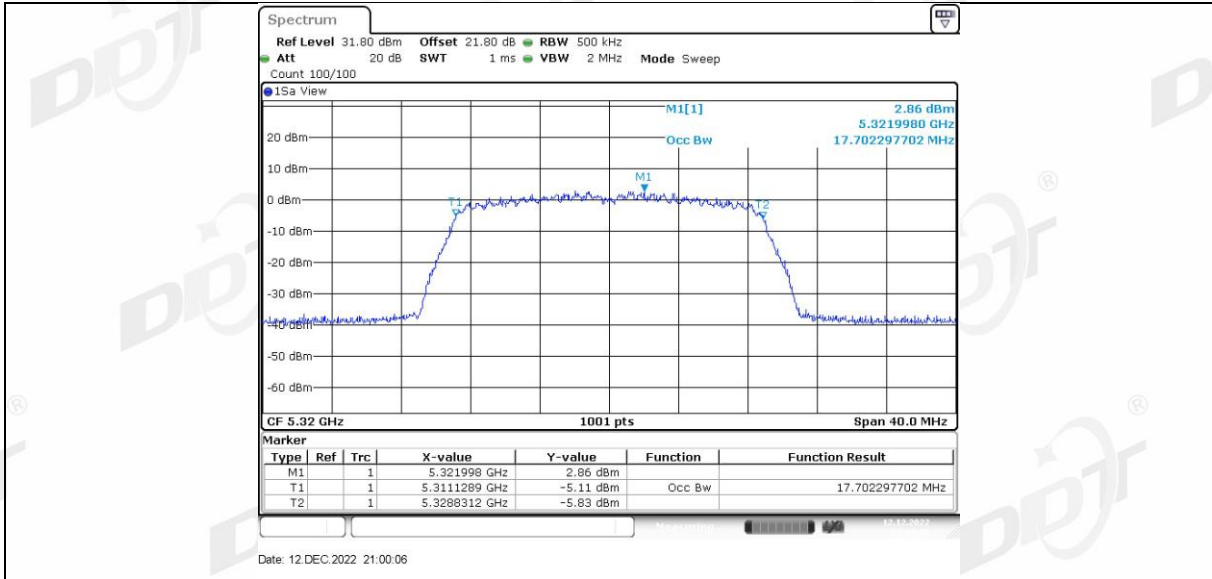
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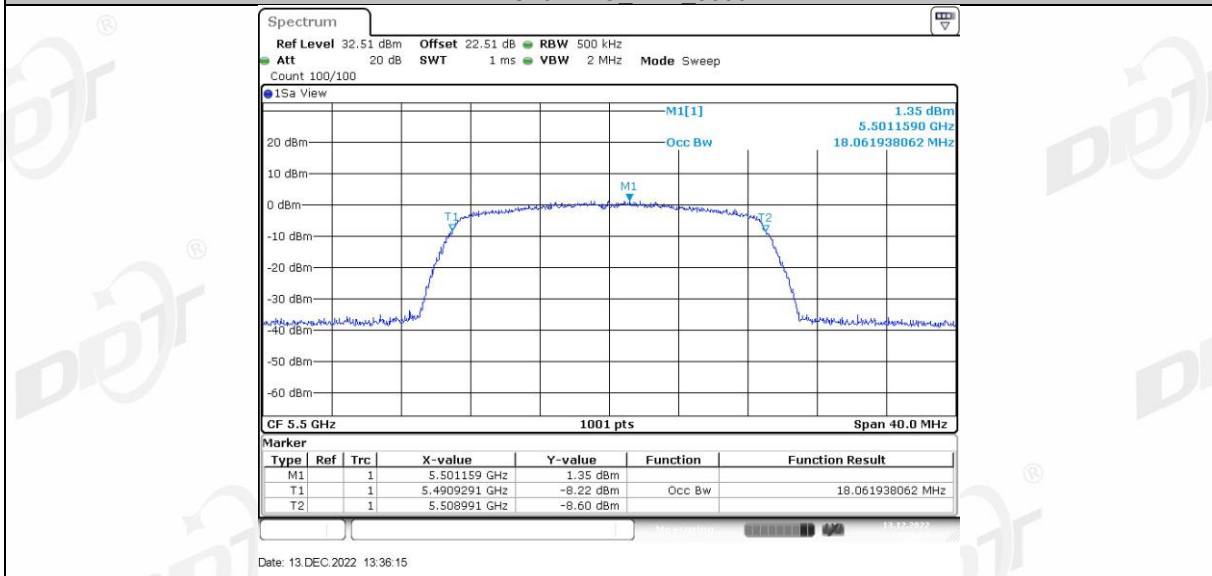
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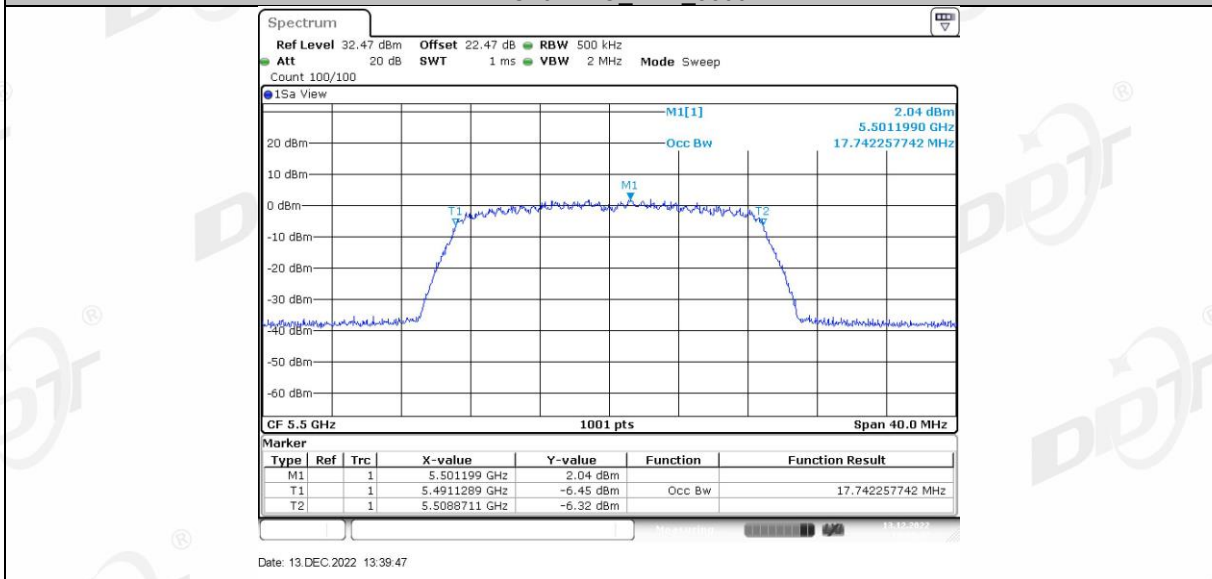
11AC20MIMO Ant2_5320



11AC20MIMO Ant1 5500



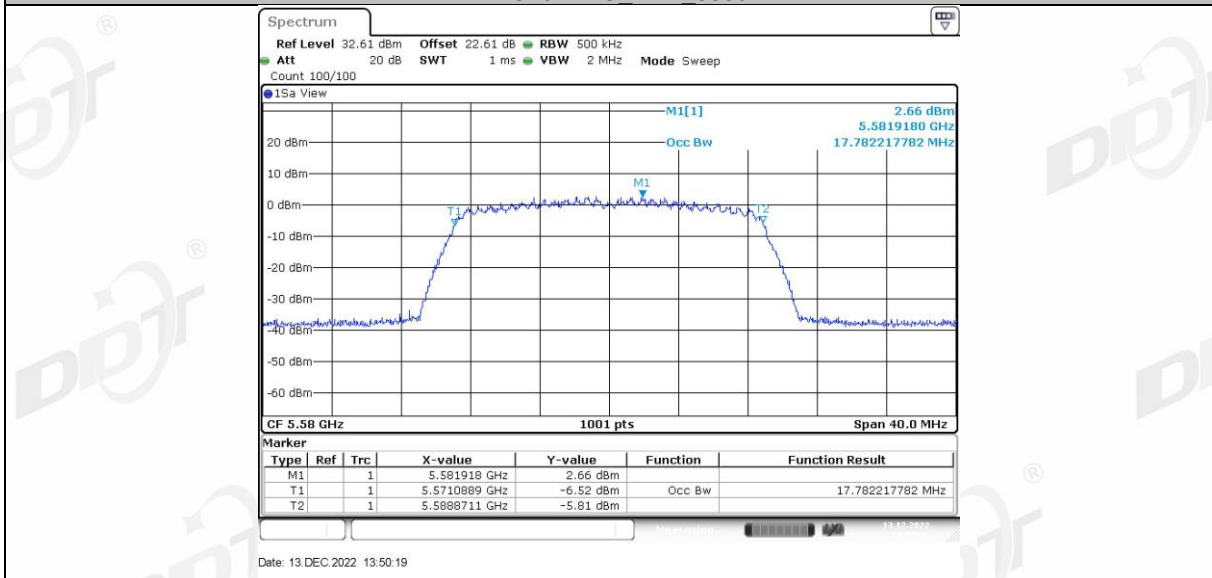
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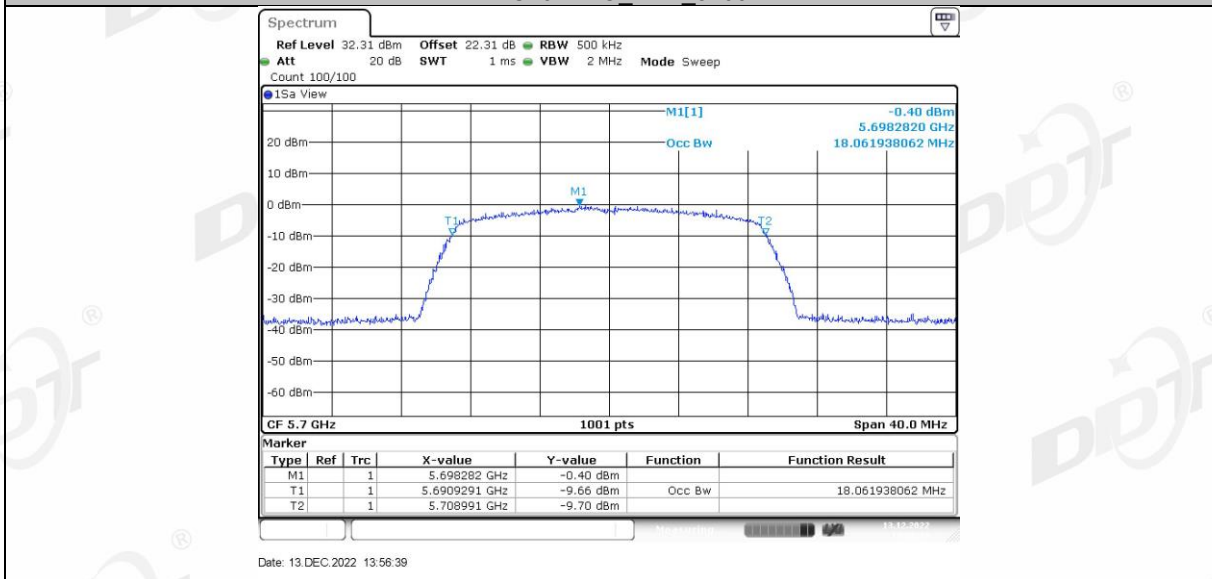
11AC20MIMO Ant1 5580



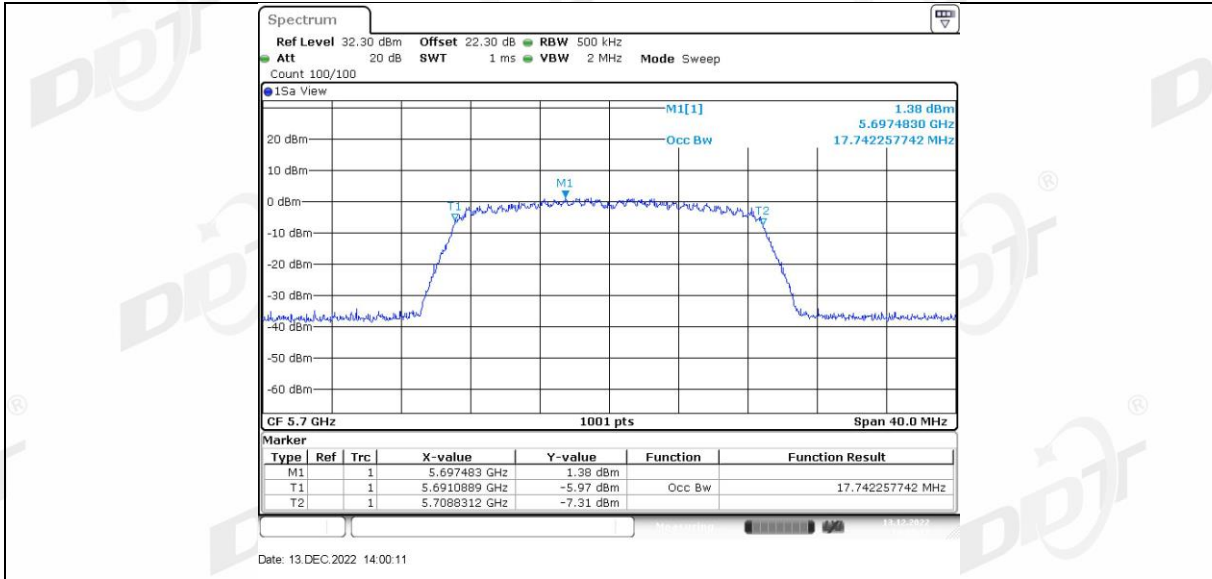
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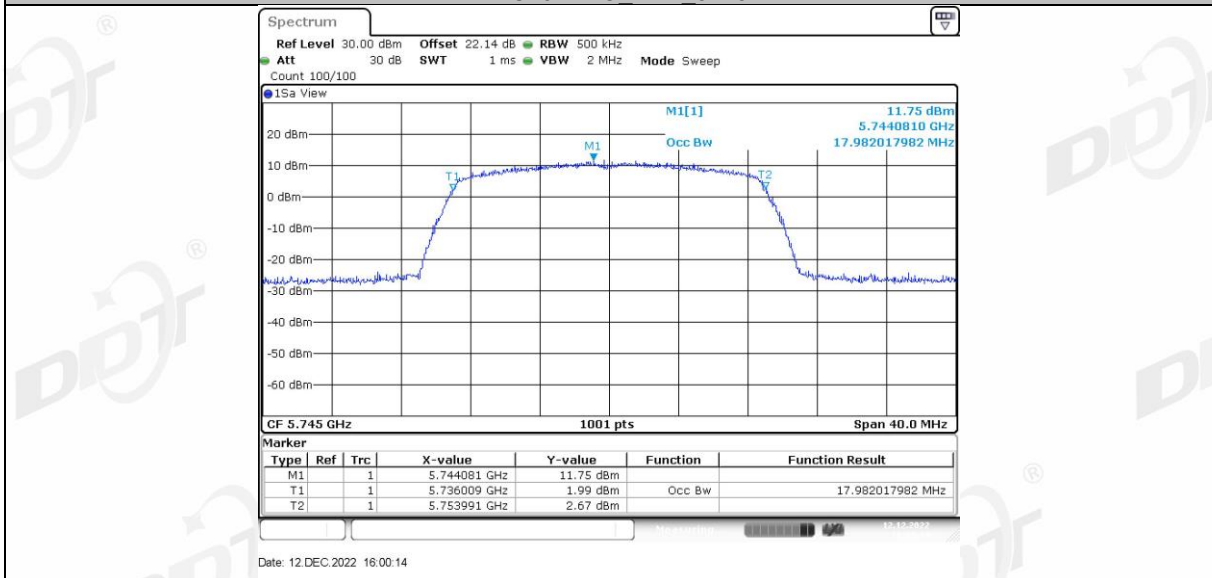
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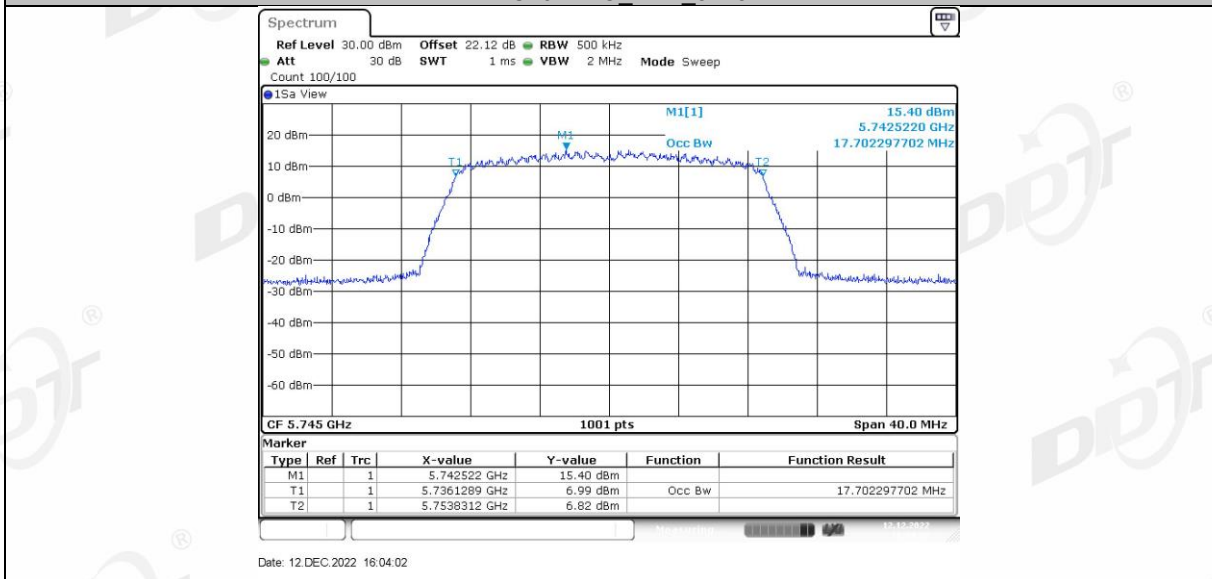
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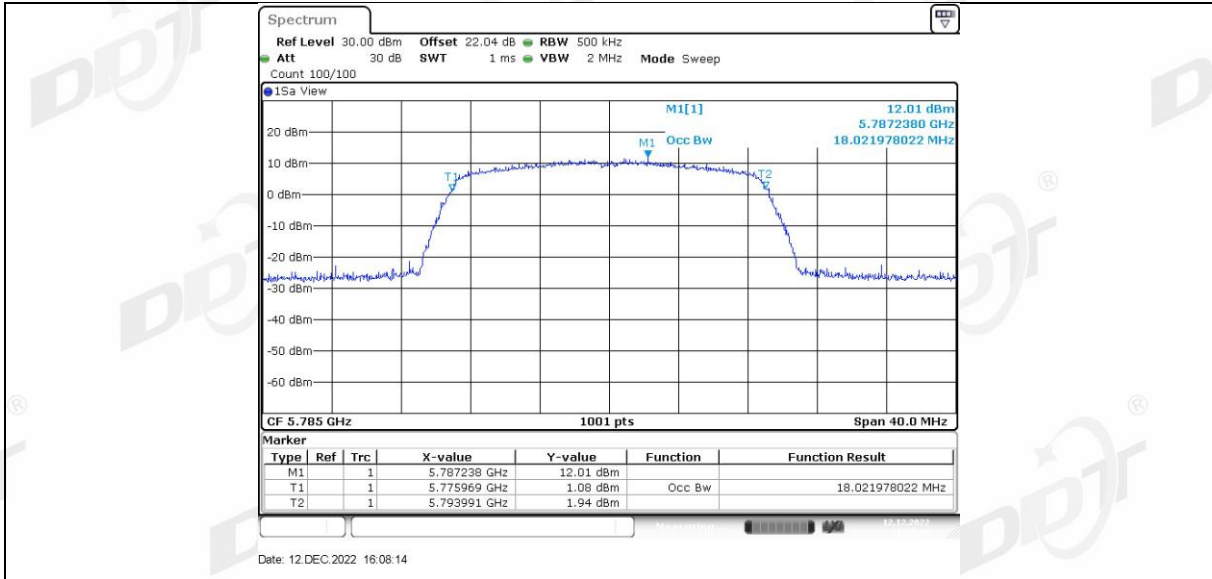
11AC20MIMO Ant1 5745



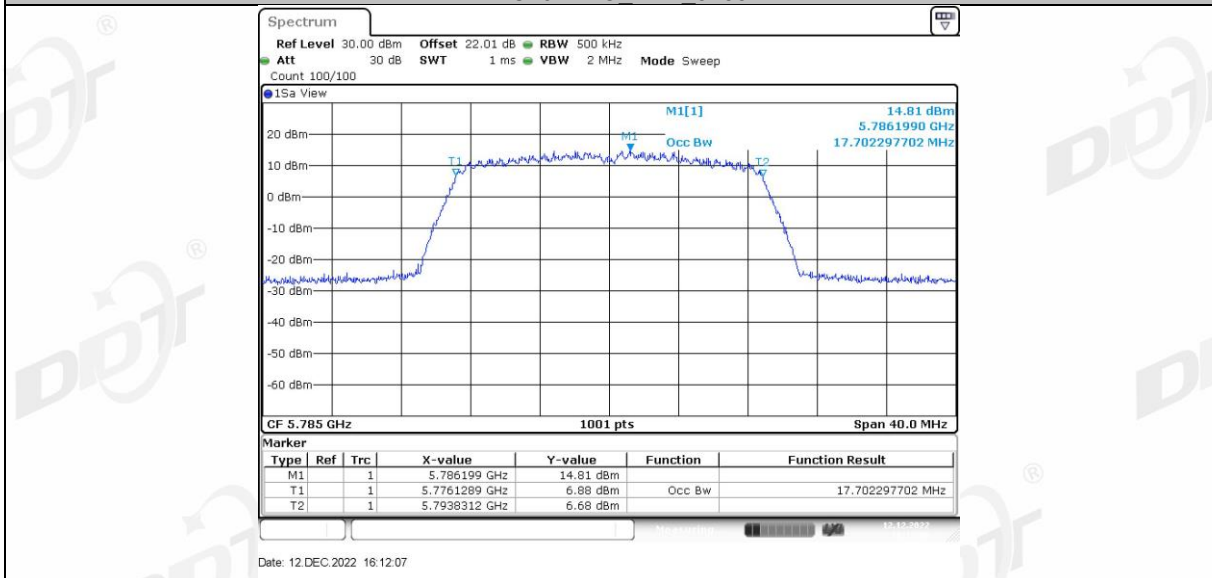
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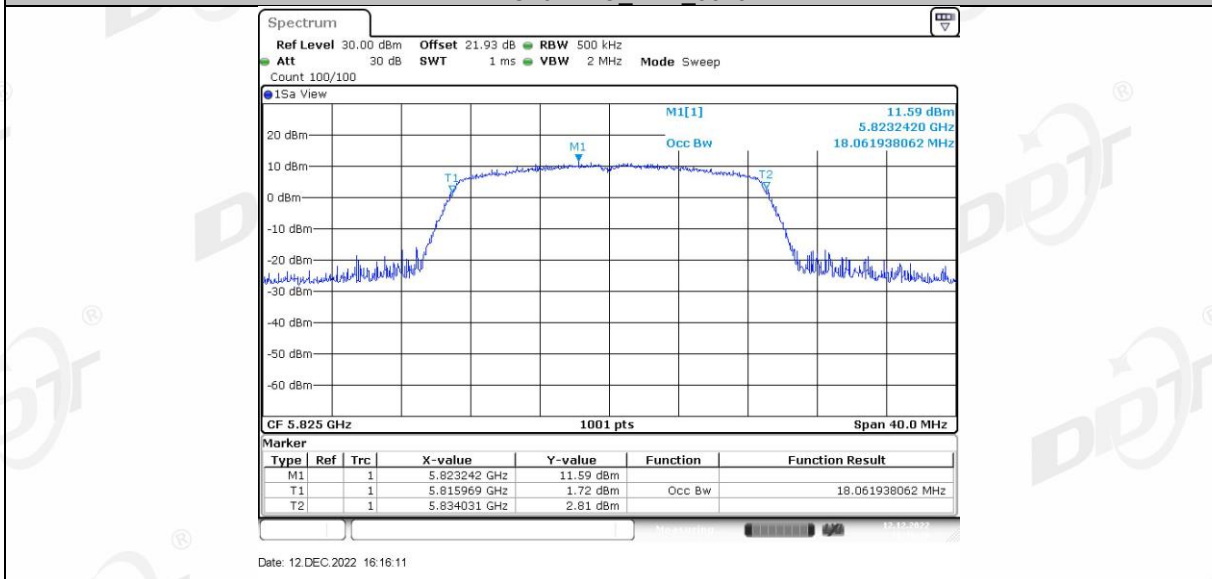
11AC20MIMO Ant1 5785



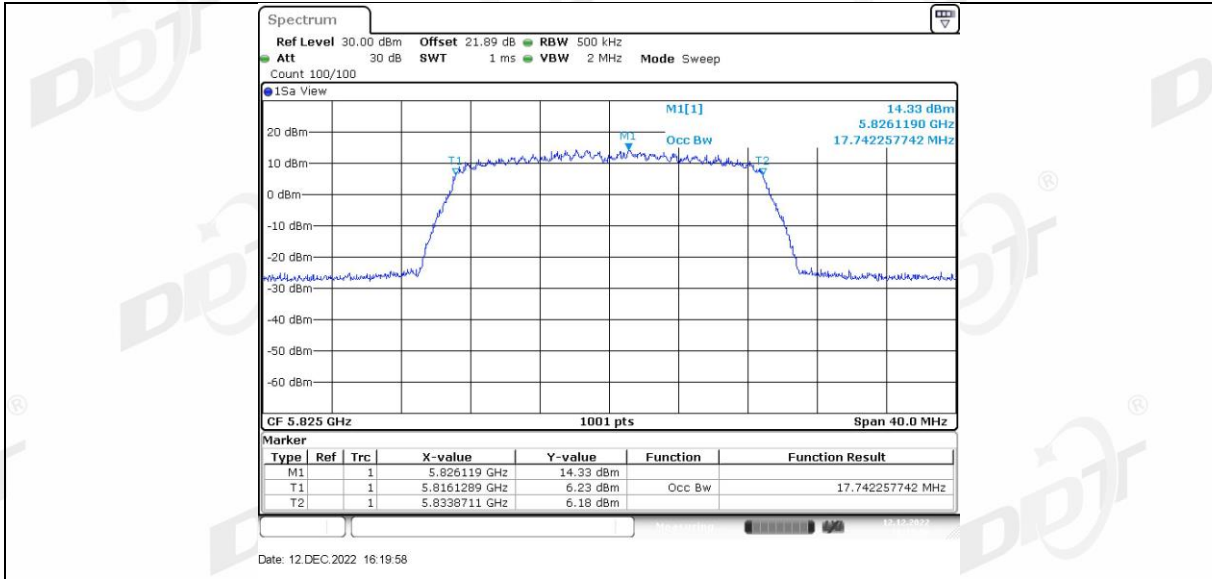
11AC20MIMO_Ant2_5785



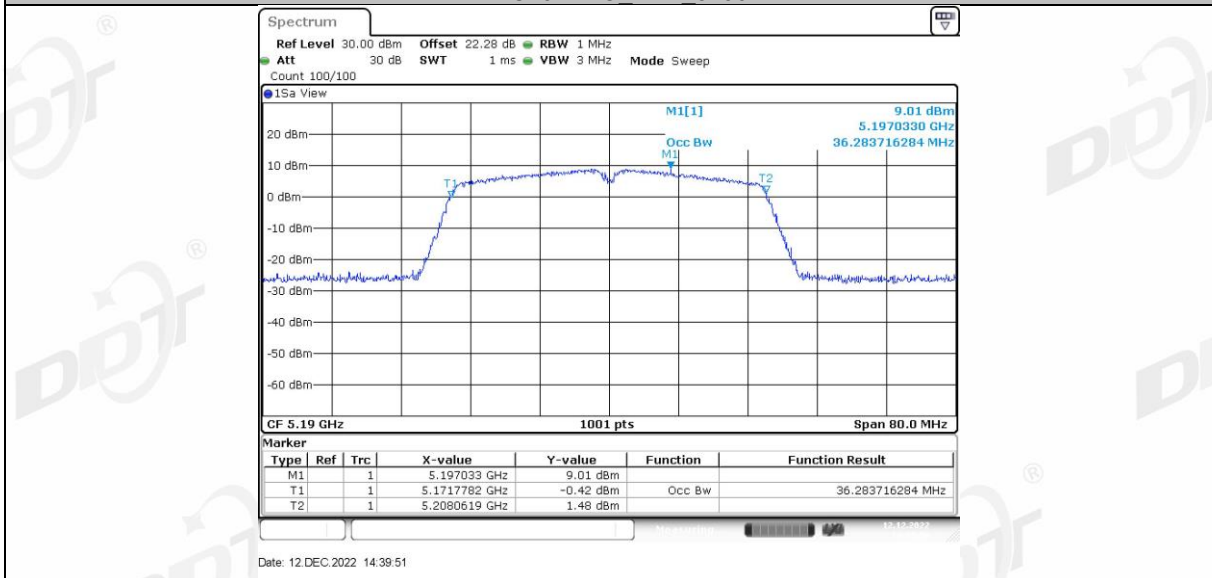
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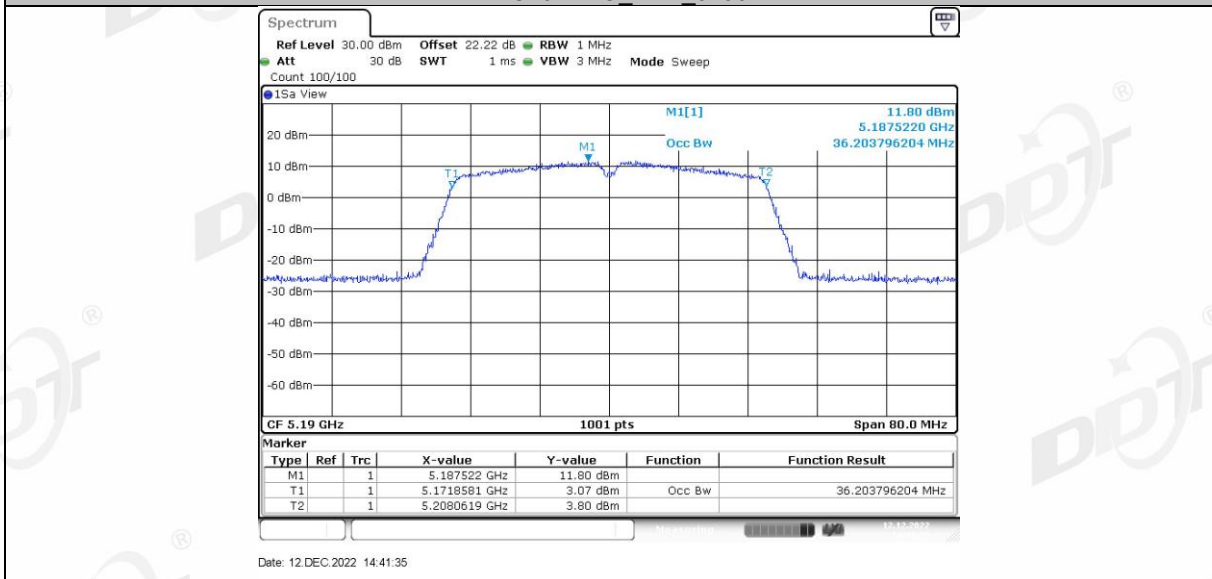
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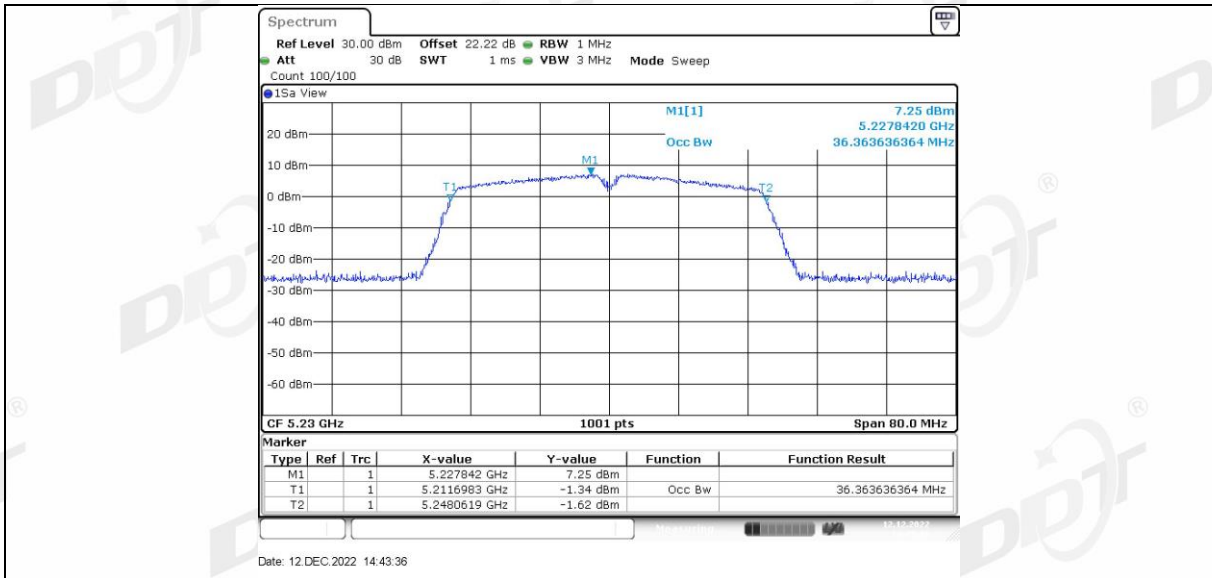
11AC40MIMO Ant1_5190



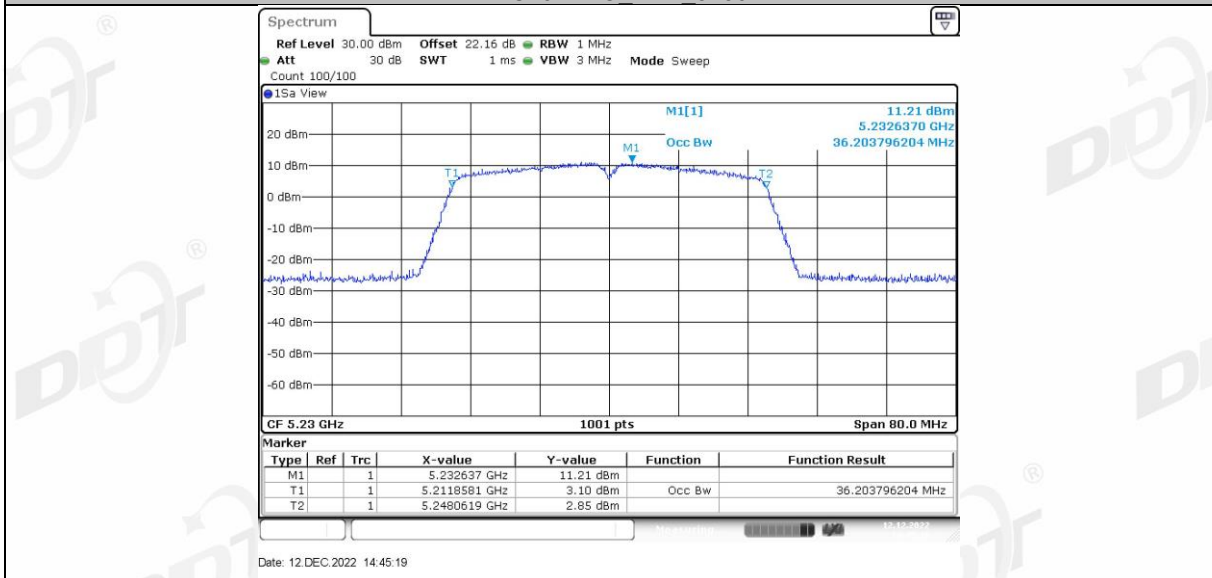
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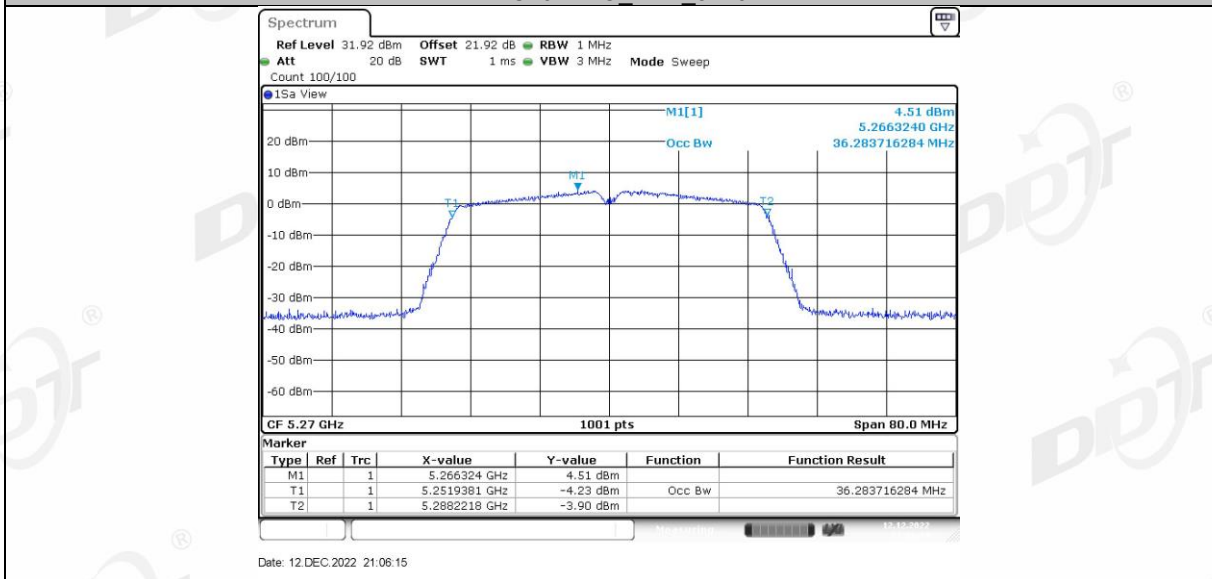
11AC40MIMO Ant1_5230



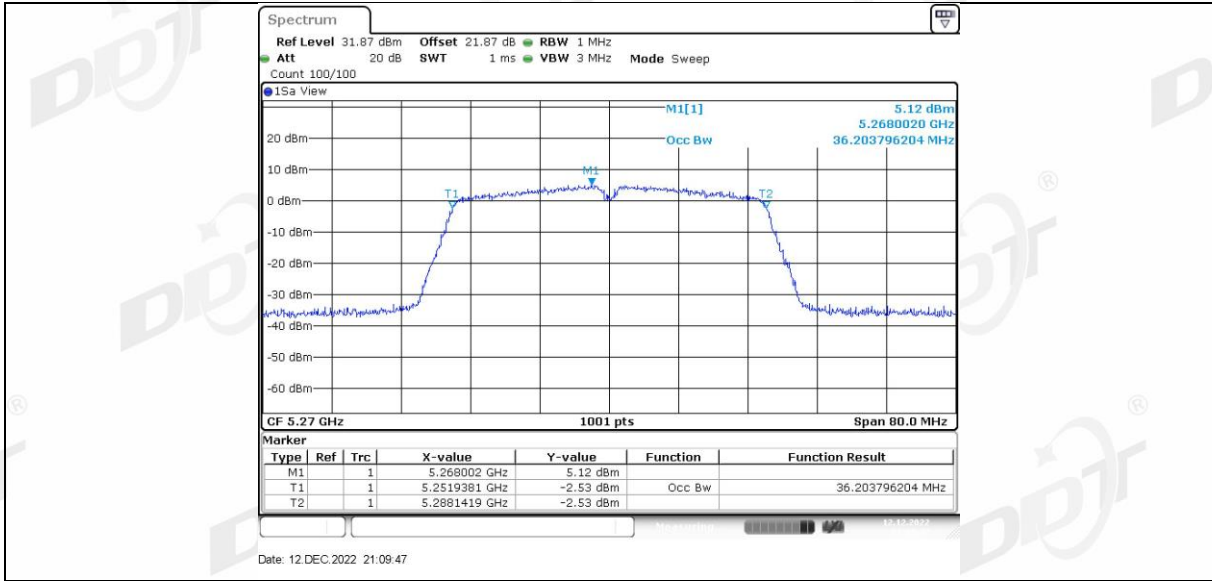
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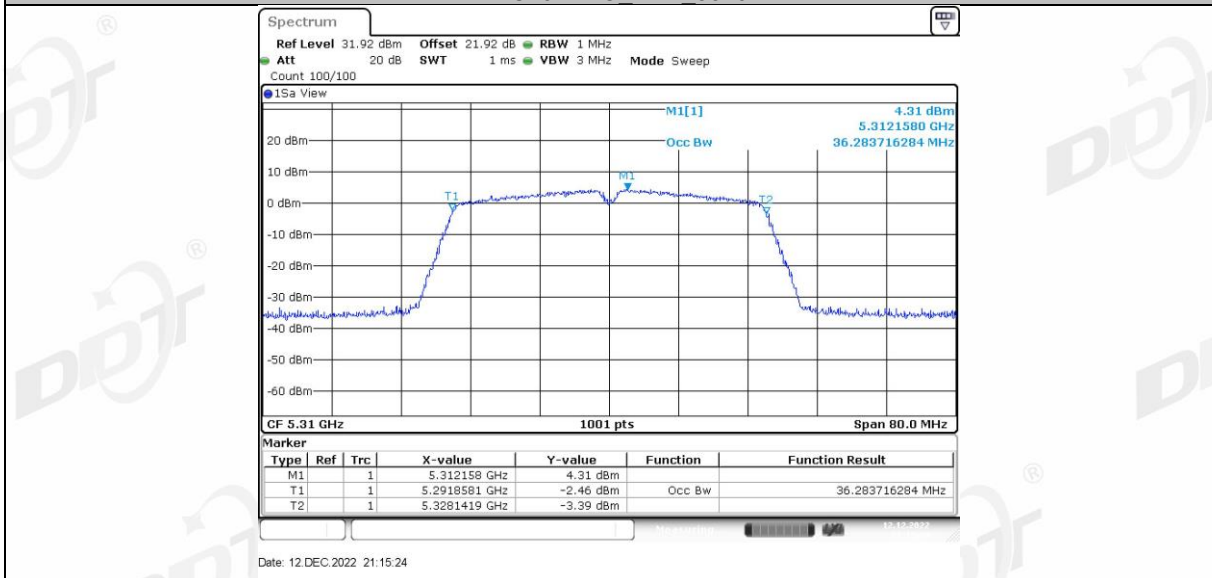
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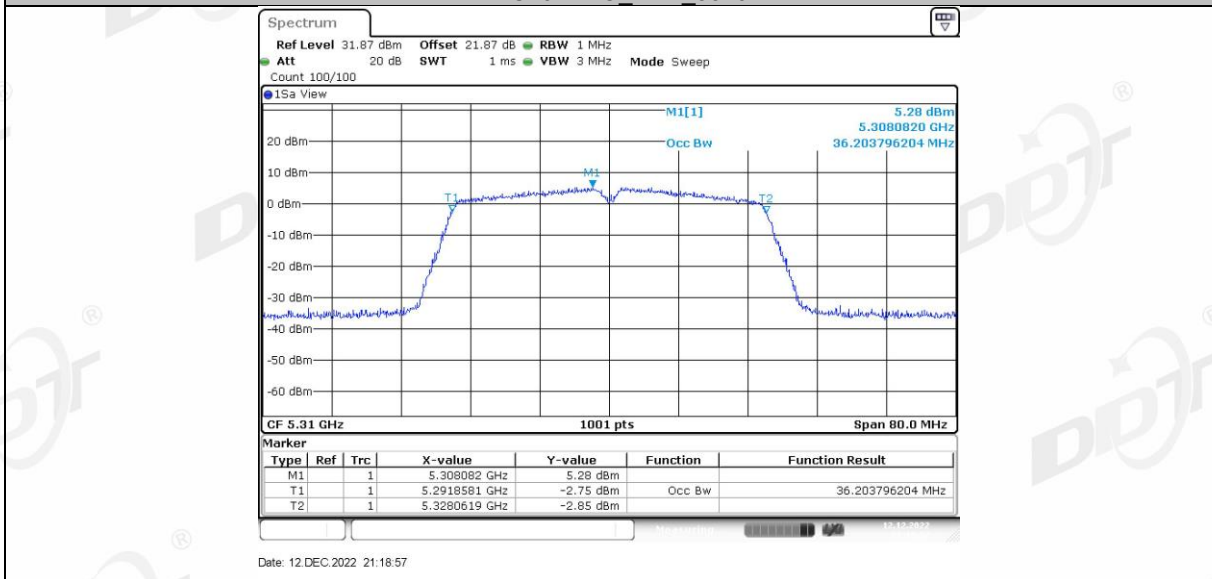
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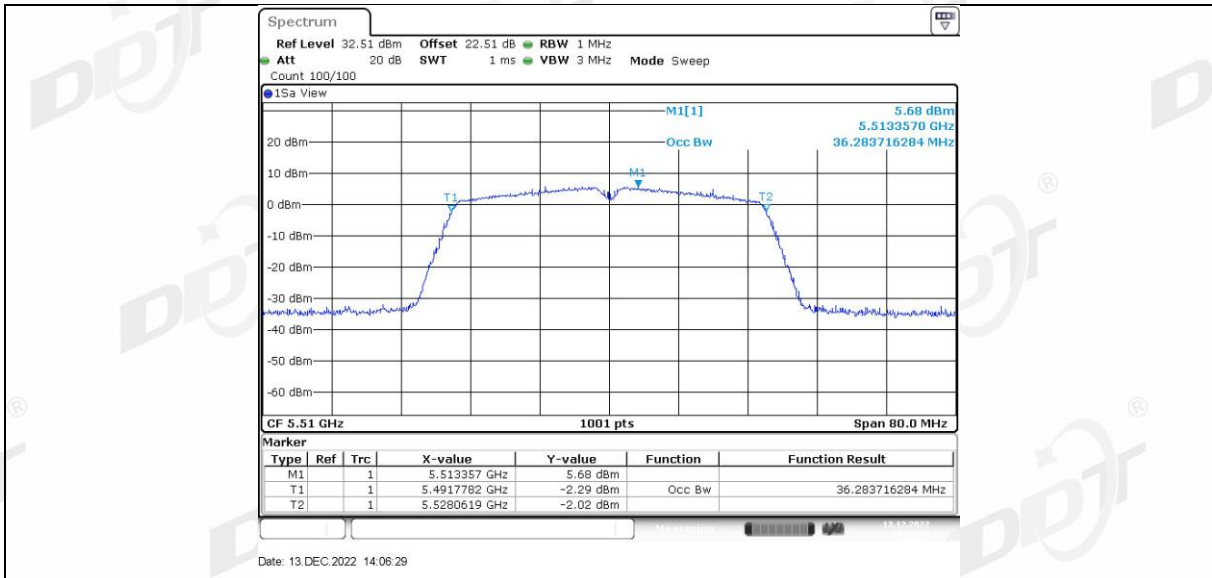
11AC40MIMO Ant1 5310



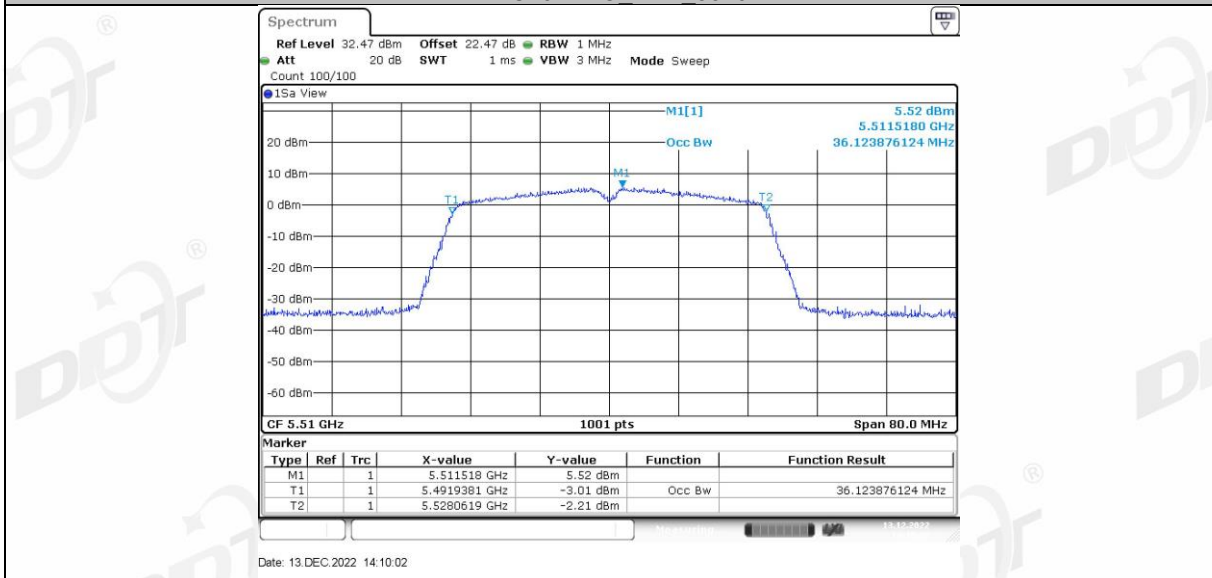
11AC40MIMO Ant2 5310



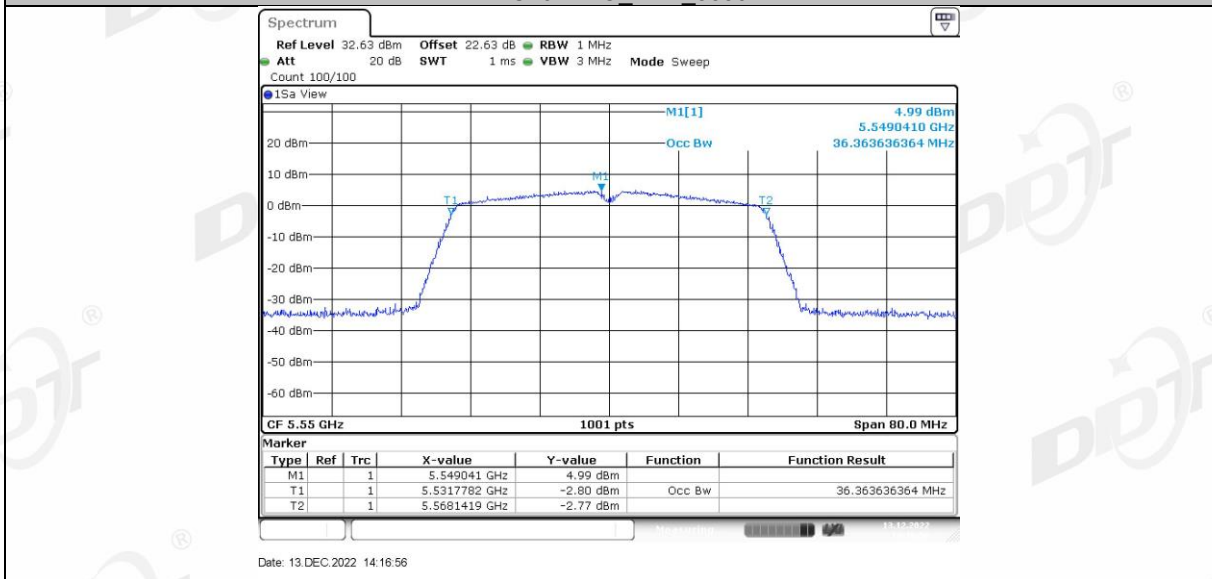
11AC40MIMO Ant1 5510



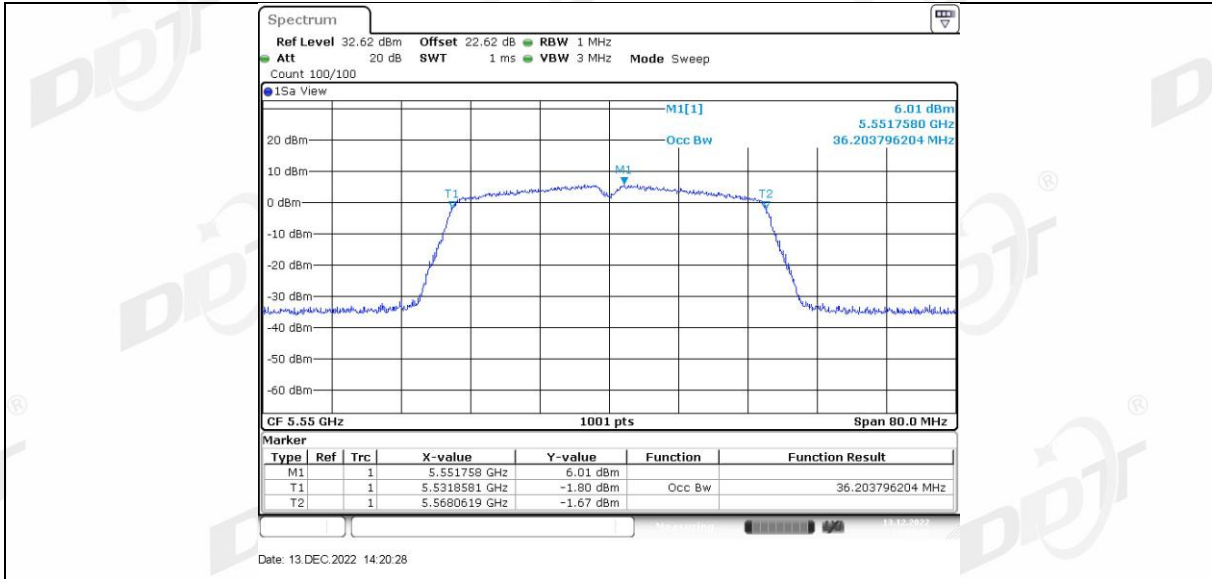
11AC40MIMO Ant2_5510



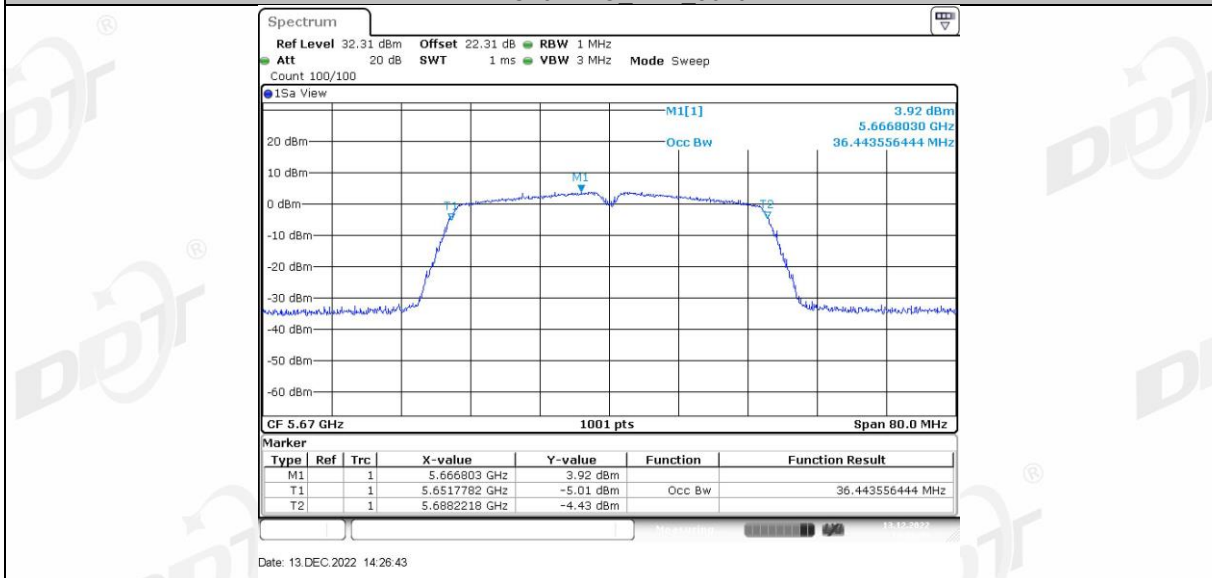
11AC40MIMO Ant1_5550



11AC40MIMO Ant2_5550



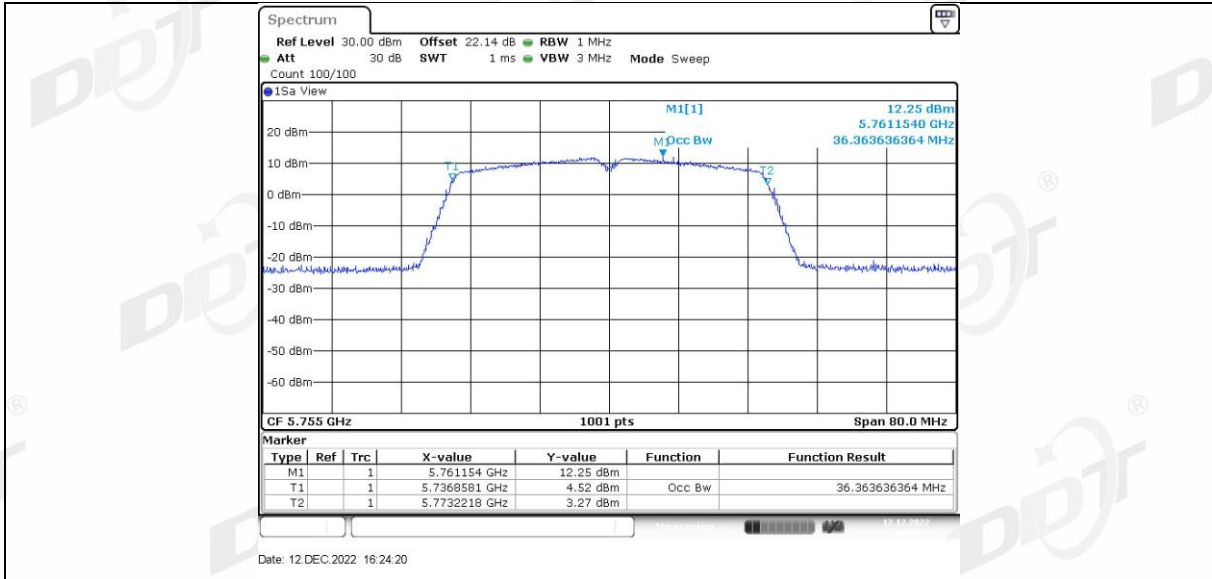
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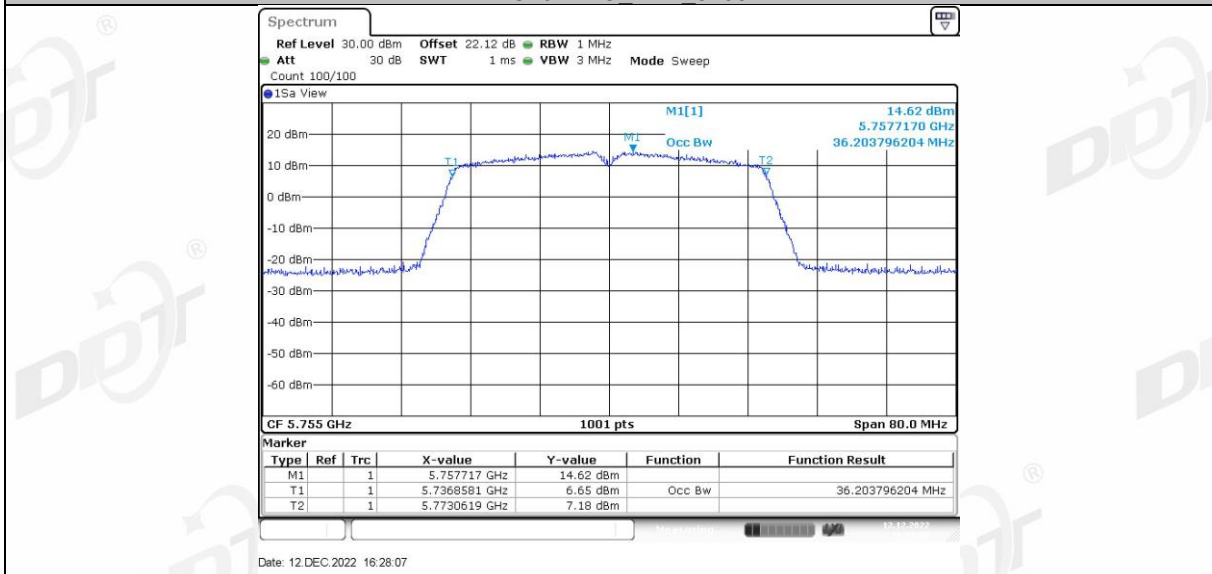
11AC40MIMO Ant2_5670



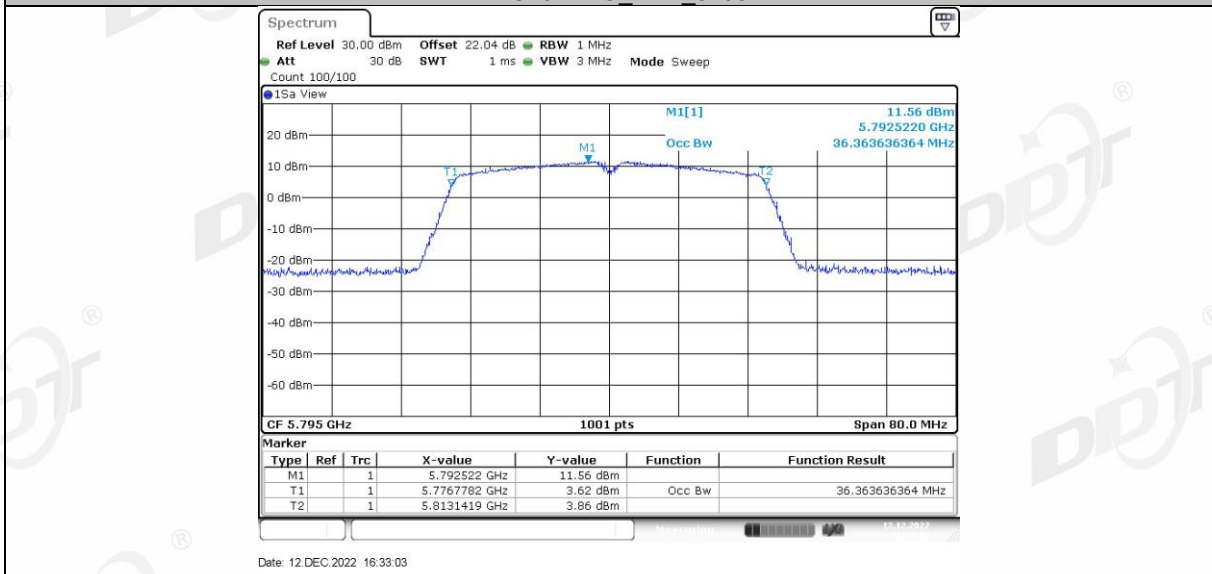
11AC40MIMO Ant1_5755



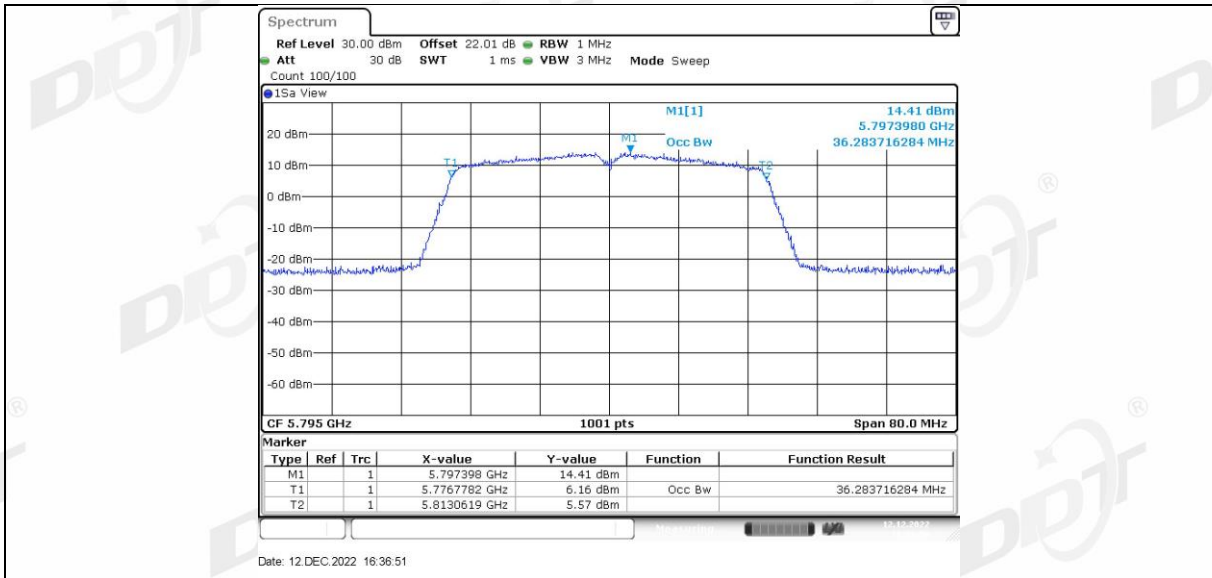
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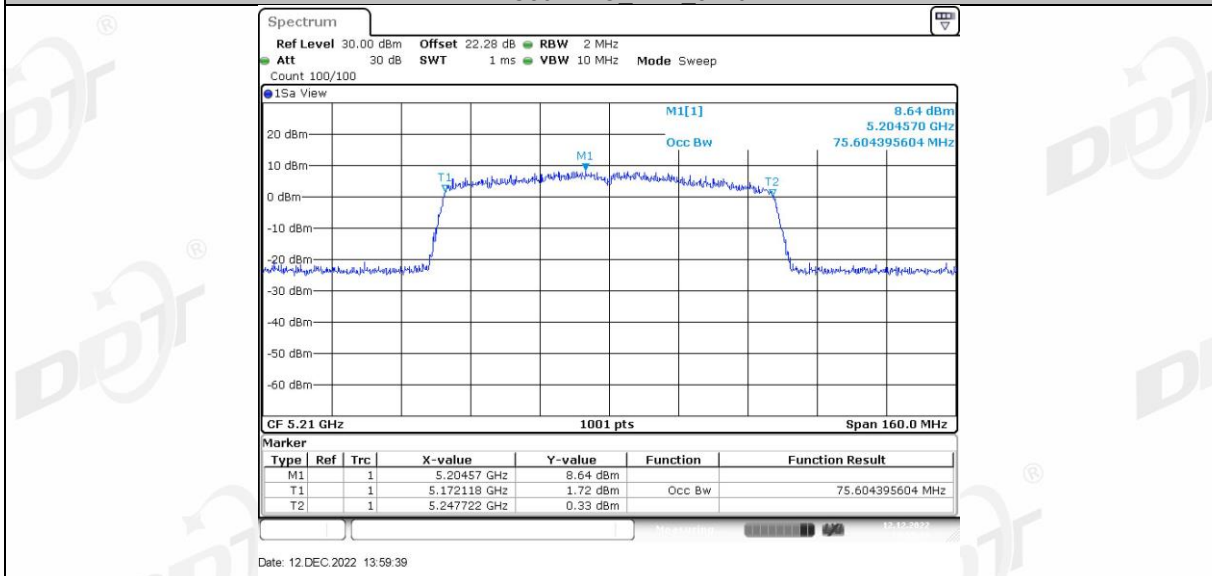
11AC40MIMO Ant1_5795



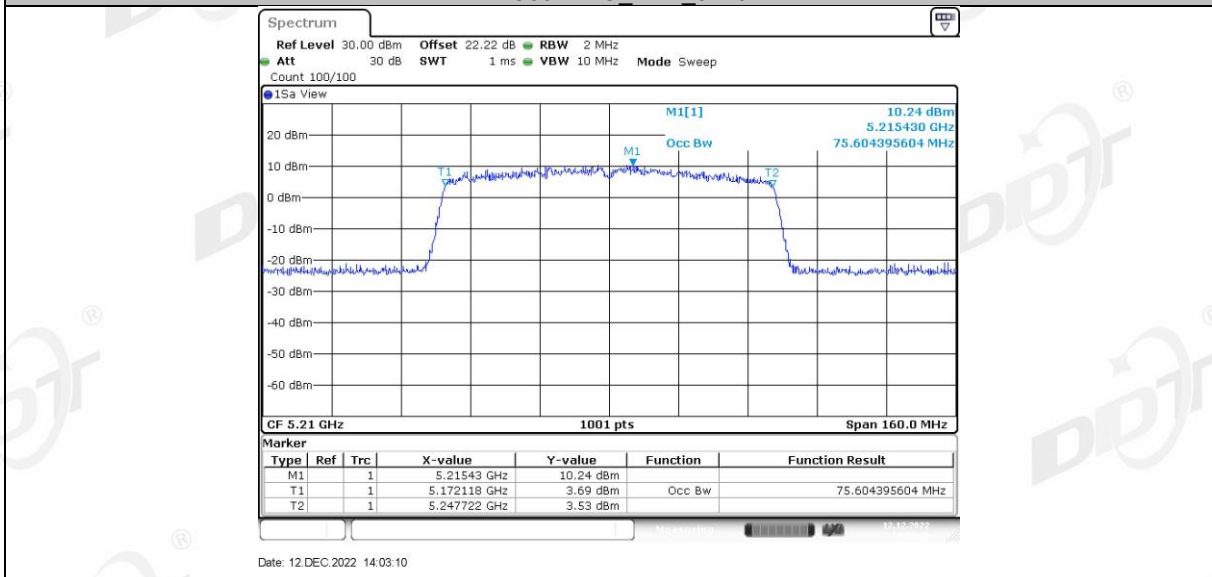
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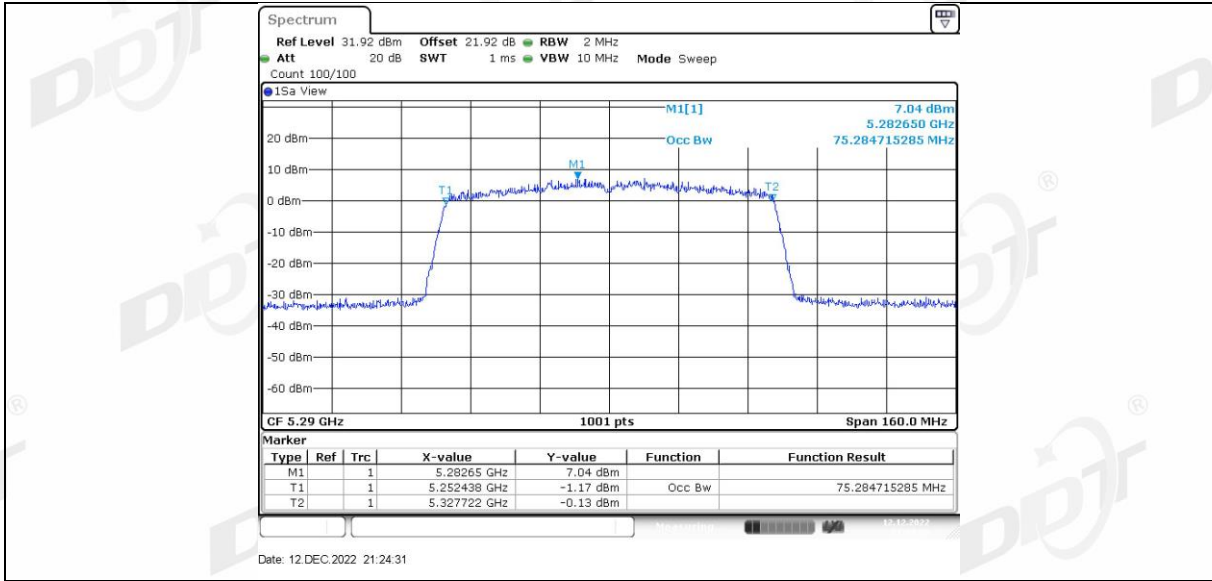
11AC80MIMO Ant1 5210



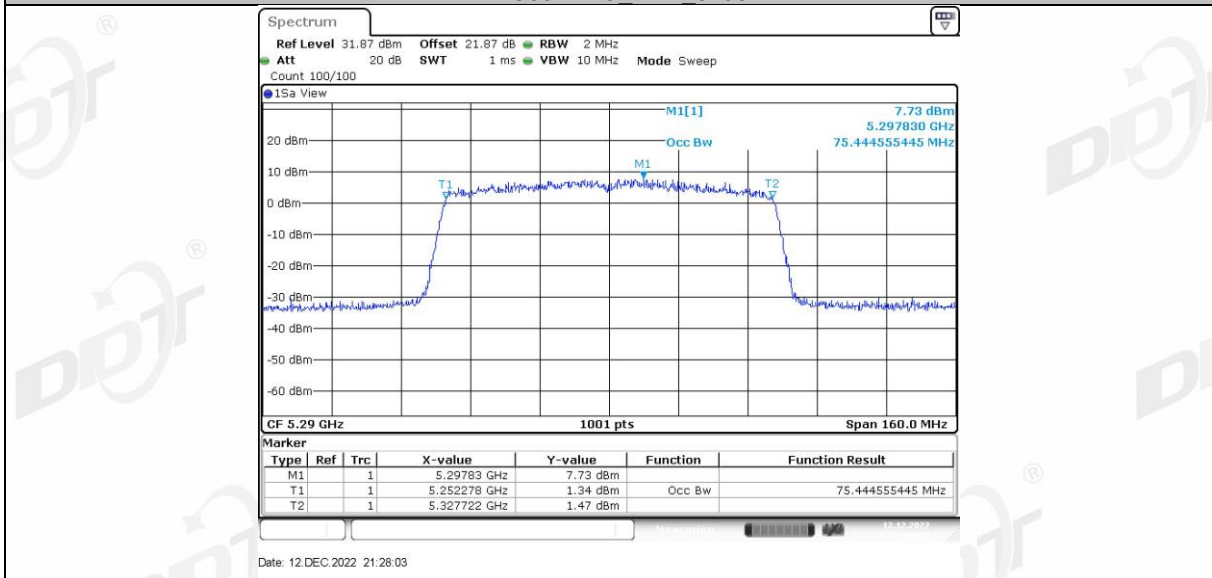
11AC80MIMO Ant2 5210



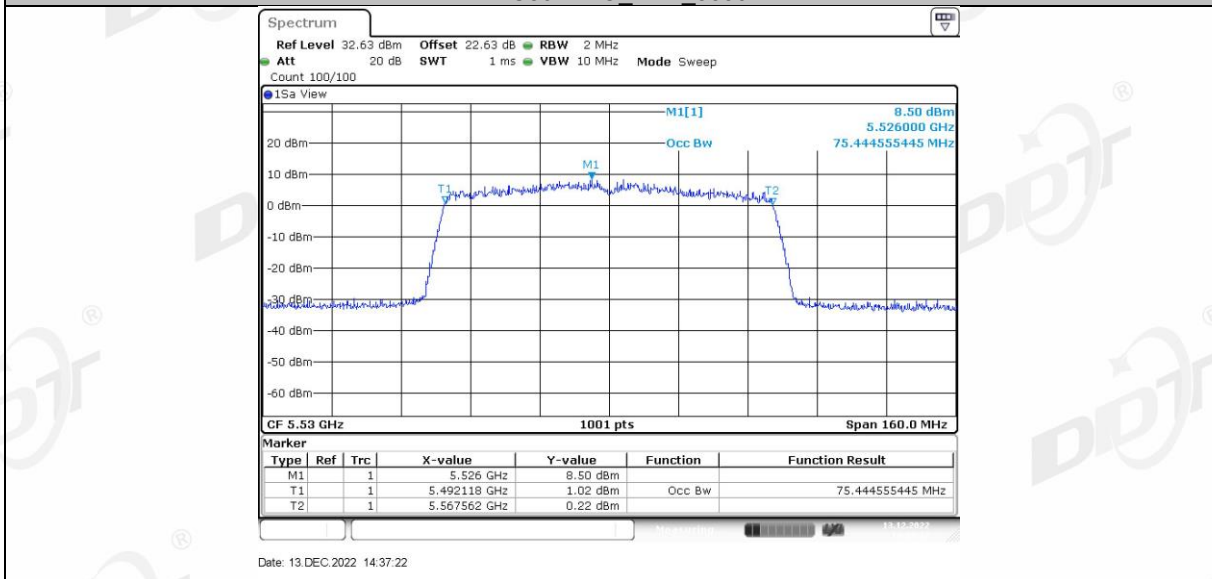
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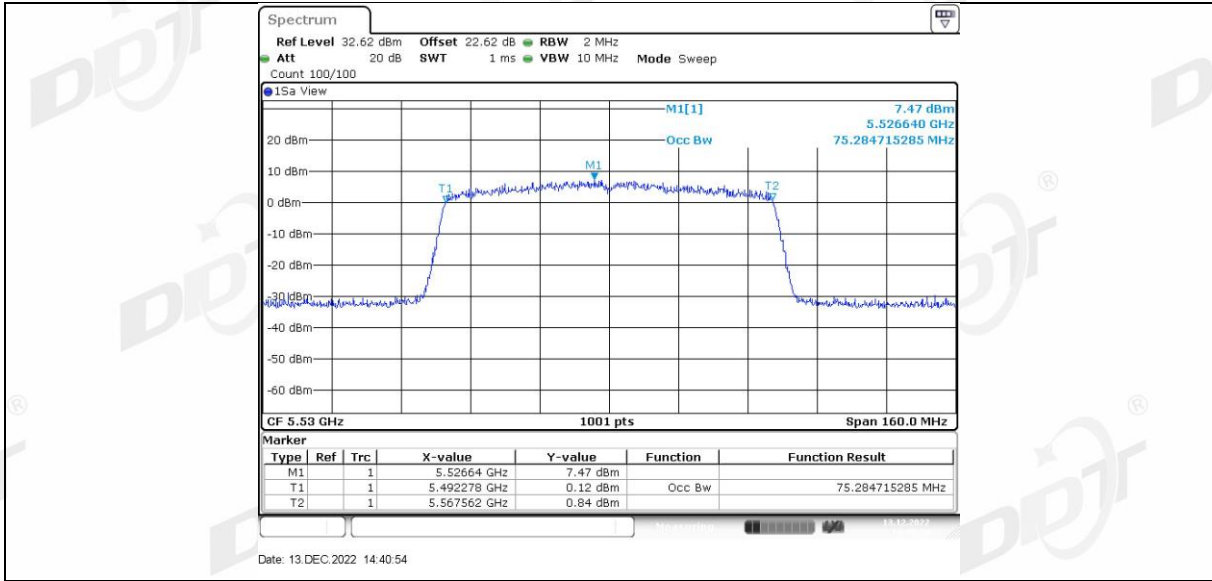
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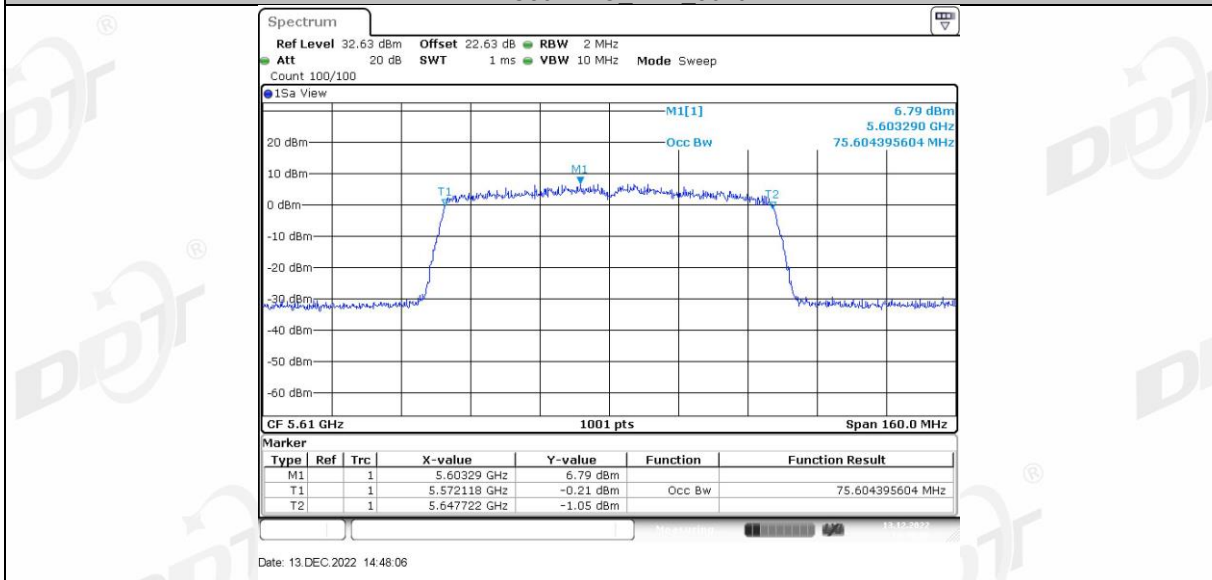
11AC80MIMO Ant1_5530



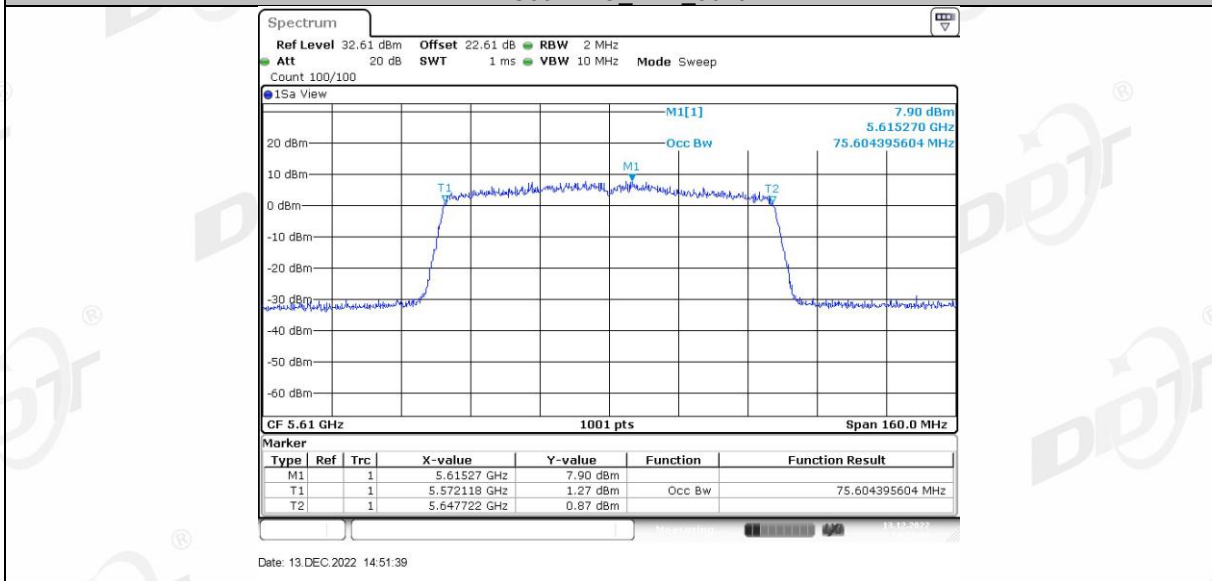
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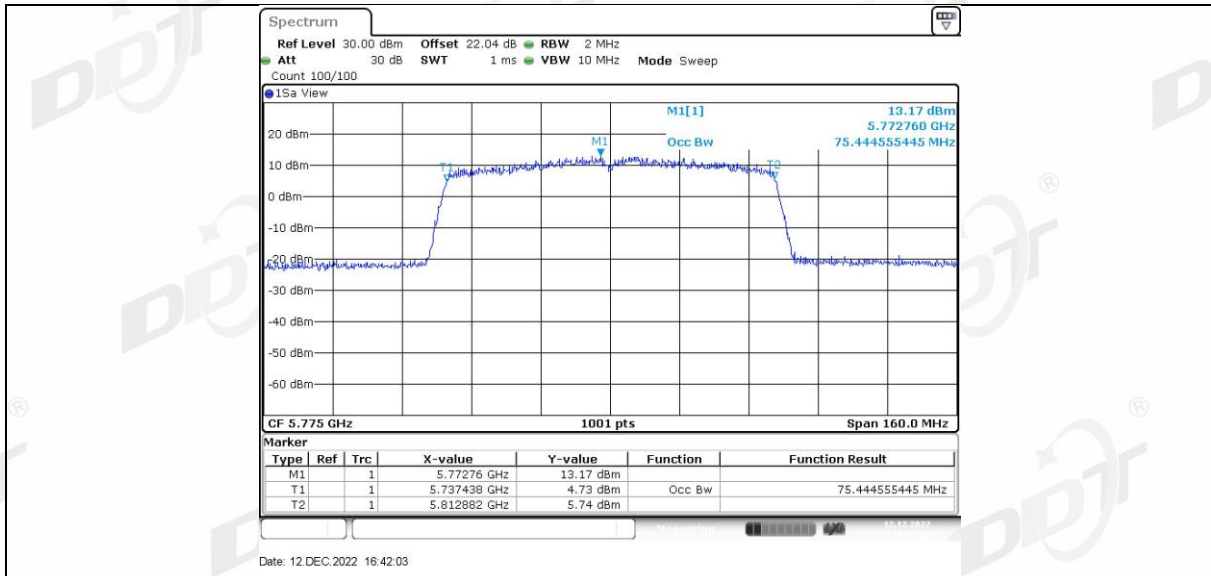
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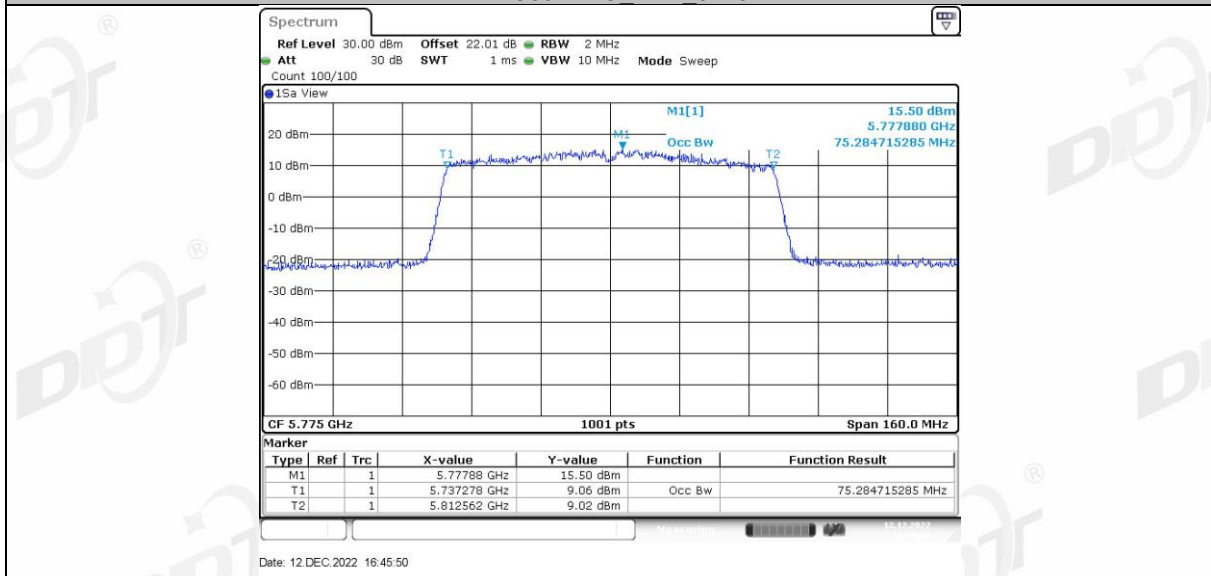
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11AC80MIMO Ant1_5775

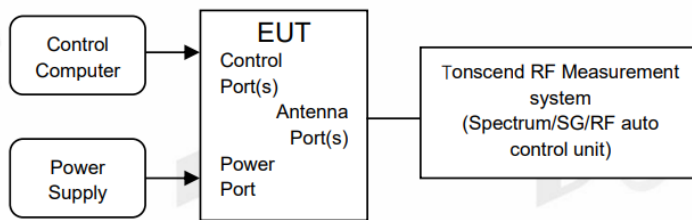


11AC80MIMO Ant2 5775



7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Max Hold.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

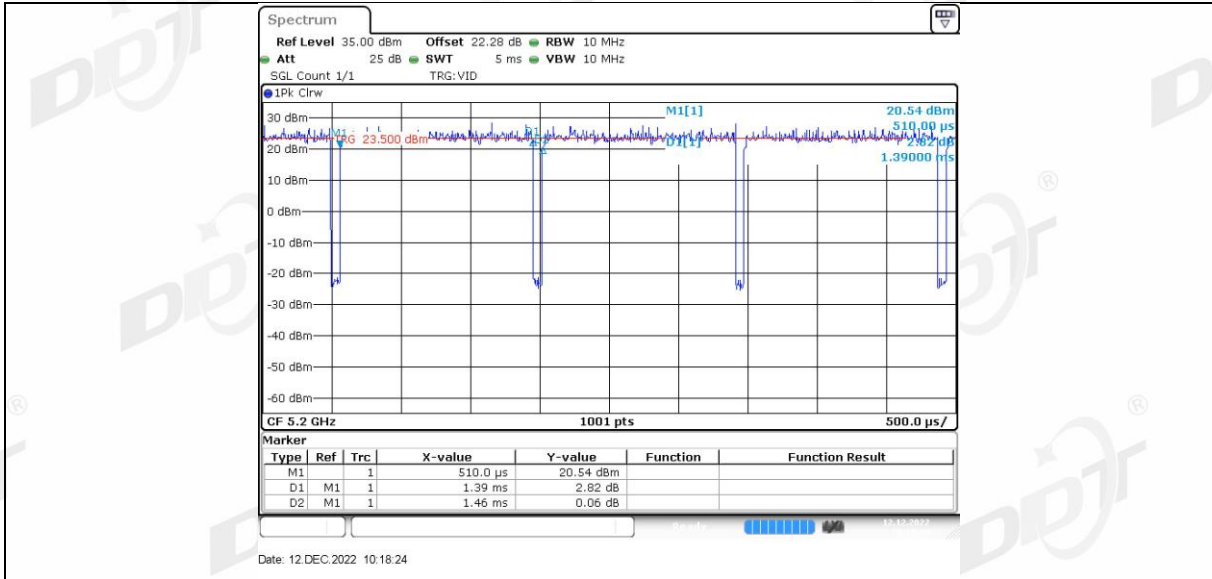
7.4. Test result

| Test Mode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A-CDD | Ant1 | 5180 | 1.39 | 1.45 | 95.86 |
| | Ant2 | 5180 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5200 | 1.39 | 1.46 | 95.21 |
| | Ant2 | 5200 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5240 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5240 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5260 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5260 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5280 | 1.39 | 1.46 | 95.21 |
| | Ant2 | 5280 | 1.39 | 1.46 | 95.21 |
| | Ant1 | 5320 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5320 | 1.39 | 1.45 | 95.86 |
| | Ant1 | 5500 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5500 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5580 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5580 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5700 | 1.40 | 1.46 | 95.89 |
| | Ant2 | 5700 | 1.40 | 1.46 | 95.89 |
| | Ant1 | 5745 | 1.39 | 1.45 | 95.86 |
| | Ant2 | 5745 | 1.40 | 1.46 | 95.89 |
| Ant1 | 5785 | 1.39 | 1.46 | 95.21 | |
| Ant2 | 5785 | 1.40 | 1.46 | 95.89 | |
| Ant1 | 5825 | 1.39 | 1.46 | 95.21 | |
| Ant2 | 5825 | 1.40 | 1.46 | 95.89 | |
| 11N20MIMO | Ant1 | 5180 | 0.68 | 0.74 | 91.89 |
| | Ant2 | 5180 | 0.67 | 0.74 | 90.54 |
| | Ant1 | 5200 | 0.67 | 0.74 | 90.54 |
| | Ant2 | 5200 | 0.68 | 0.74 | 91.89 |
| | Ant1 | 5240 | 0.68 | 0.74 | 91.89 |
| | Ant2 | 5240 | 0.67 | 0.74 | 90.54 |
| | Ant1 | 5260 | 0.67 | 0.73 | 91.78 |
| | Ant2 | 5260 | 0.67 | 0.74 | 90.54 |
| | Ant1 | 5280 | 0.67 | 0.74 | 90.54 |
| | Ant2 | 5280 | 0.68 | 0.74 | 91.89 |
| | Ant1 | 5320 | 0.68 | 0.74 | 91.89 |
| | Ant2 | 5320 | 0.68 | 0.74 | 91.89 |
| | Ant1 | 5500 | 0.68 | 0.74 | 91.89 |
| | Ant2 | 5500 | 0.67 | 0.74 | 90.54 |
| | Ant1 | 5580 | 0.67 | 0.74 | 90.54 |
| | Ant2 | 5580 | 0.67 | 0.74 | 90.54 |
| | Ant1 | 5700 | 0.67 | 0.74 | 90.54 |
| | Ant2 | 5700 | 0.68 | 0.74 | 91.89 |
| | Ant1 | 5745 | 0.67 | 0.74 | 90.54 |
| | Ant2 | 5745 | 0.67 | 0.74 | 90.54 |
| Ant1 | 5785 | 0.68 | 0.74 | 91.89 | |
| Ant2 | 5785 | 0.67 | 0.74 | 90.54 | |
| Ant1 | 5825 | 0.68 | 0.74 | 91.89 | |
| Ant2 | 5825 | 0.67 | 0.74 | 90.54 | |
| 11N40MIMO | Ant1 | 5190 | 0.34 | 0.40 | 85.00 |
| | Ant2 | 5190 | 0.35 | 0.41 | 85.37 |
| | Ant1 | 5230 | 0.34 | 0.40 | 85.00 |
| | Ant2 | 5230 | 0.35 | 0.41 | 85.37 |
| | Ant1 | 5270 | 0.35 | 0.41 | 85.37 |
| | Ant2 | 5270 | 0.35 | 0.41 | 85.37 |
| | Ant1 | 5310 | 0.35 | 0.41 | 85.37 |
| | Ant2 | 5310 | 0.34 | 0.40 | 85.00 |
| | Ant1 | 5510 | 0.35 | 0.41 | 85.37 |
| | Ant2 | 5510 | 0.35 | 0.41 | 85.37 |
| Ant1 | 5550 | 0.35 | 0.41 | 85.37 | |
| Ant2 | 5550 | 0.35 | 0.41 | 85.37 | |

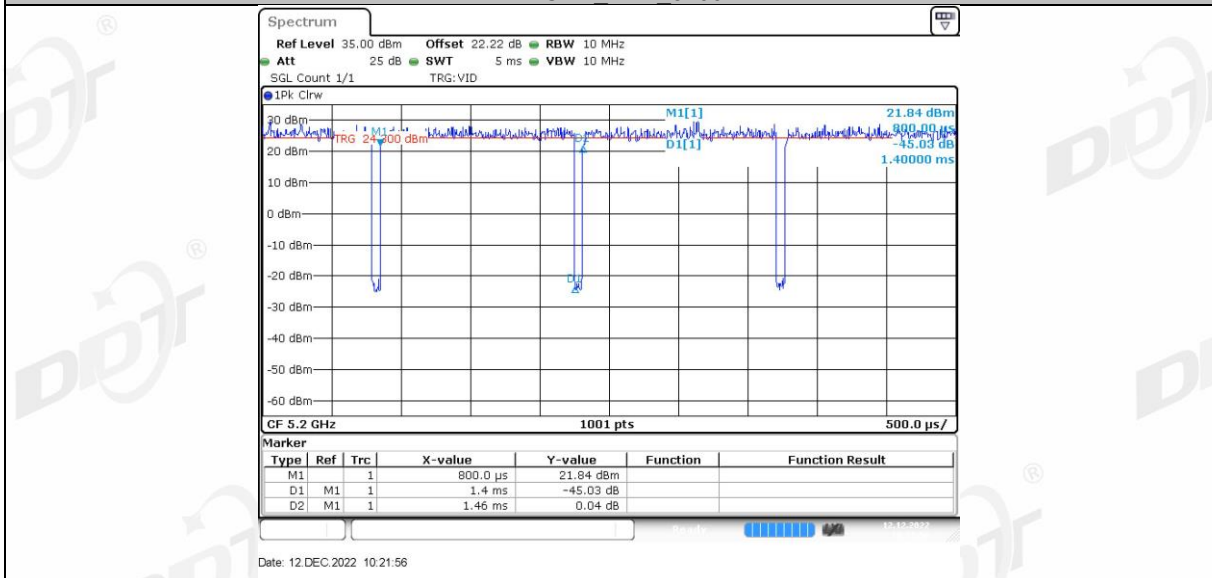
| | | | | | |
|------------|------|------|------|------|-------|
| | Ant1 | 5670 | 0.35 | 0.41 | 85.37 |
| | Ant2 | 5670 | 0.35 | 0.41 | 85.37 |
| | Ant1 | 5755 | 0.34 | 0.41 | 82.93 |
| | Ant2 | 5755 | 0.34 | 0.41 | 82.93 |
| | Ant1 | 5795 | 0.34 | 0.41 | 82.93 |
| | Ant2 | 5795 | 0.34 | 0.40 | 85.00 |
| 11AC20MIMO | Ant1 | 5180 | 1.31 | 1.38 | 94.93 |
| | Ant2 | 5180 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5200 | 1.31 | 1.38 | 94.93 |
| | Ant2 | 5200 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5240 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5240 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5260 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5260 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5280 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5280 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5320 | 1.31 | 1.38 | 94.93 |
| | Ant2 | 5320 | 1.31 | 1.37 | 95.62 |
| | Ant1 | 5500 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5500 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5580 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5580 | 1.31 | 1.38 | 94.93 |
| | Ant1 | 5700 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5700 | 1.31 | 1.38 | 94.93 |
| | Ant1 | 5745 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5745 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5785 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5785 | 1.32 | 1.38 | 95.65 |
| | Ant1 | 5825 | 1.32 | 1.38 | 95.65 |
| | Ant2 | 5825 | 1.31 | 1.38 | 94.93 |
| 11AC40MIMO | Ant1 | 5190 | 0.66 | 0.72 | 91.67 |
| | Ant2 | 5190 | 0.65 | 0.71 | 91.55 |
| | Ant1 | 5230 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5230 | 0.66 | 0.72 | 91.67 |
| | Ant1 | 5270 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5270 | 0.65 | 0.72 | 90.28 |
| | Ant1 | 5310 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5310 | 0.65 | 0.72 | 90.28 |
| | Ant1 | 5510 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5510 | 0.65 | 0.71 | 91.55 |
| | Ant1 | 5550 | 0.66 | 0.72 | 91.67 |
| | Ant2 | 5550 | 0.66 | 0.72 | 91.67 |
| | Ant1 | 5670 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5670 | 0.65 | 0.71 | 91.55 |
| | Ant1 | 5755 | 0.65 | 0.71 | 91.55 |
| | Ant2 | 5755 | 0.65 | 0.71 | 91.55 |
| | Ant1 | 5795 | 0.66 | 0.72 | 91.67 |
| | Ant2 | 5795 | 0.66 | 0.72 | 91.67 |
| 11AC80MIMO | Ant1 | 5210 | 0.32 | 0.38 | 84.21 |
| | Ant2 | 5210 | 0.32 | 0.38 | 84.21 |
| | Ant1 | 5290 | 0.32 | 0.38 | 84.21 |
| | Ant2 | 5290 | 0.32 | 0.38 | 84.21 |
| | Ant1 | 5530 | 0.32 | 0.38 | 84.21 |
| | Ant2 | 5530 | 0.32 | 0.38 | 84.21 |
| | Ant1 | 5610 | 0.33 | 0.39 | 84.62 |
| | Ant2 | 5610 | 0.32 | 0.38 | 84.21 |
| | Ant1 | 5775 | 0.33 | 0.39 | 84.62 |
| | Ant2 | 5775 | 0.32 | 0.38 | 84.21 |

7.5. Test graphs

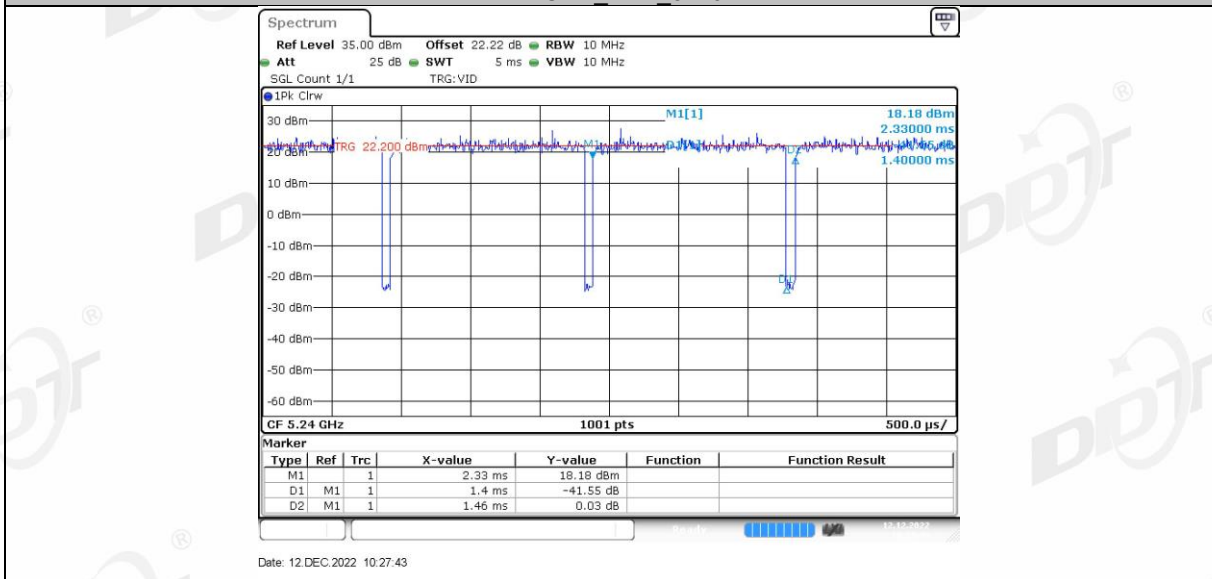




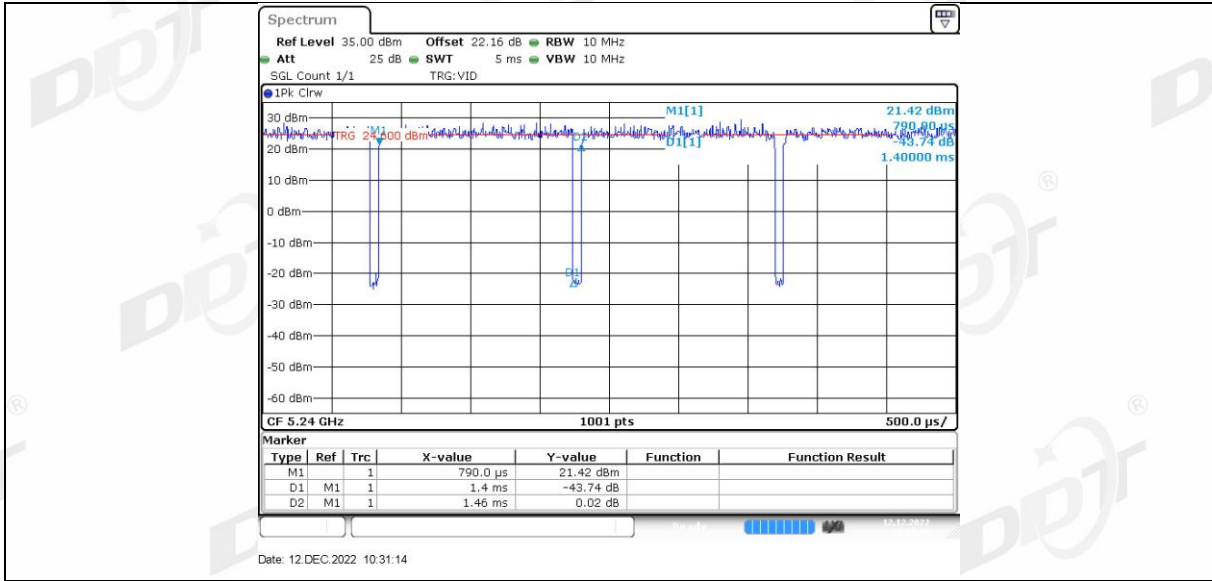
11A-CDD Ant2 5200



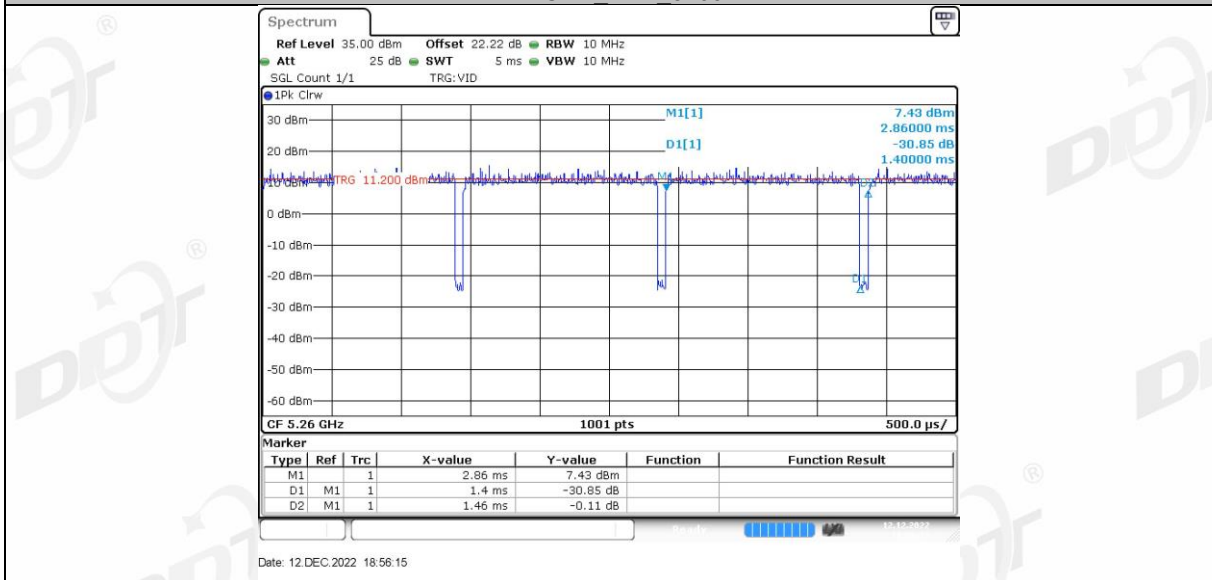
11A-CDD Ant1 5240



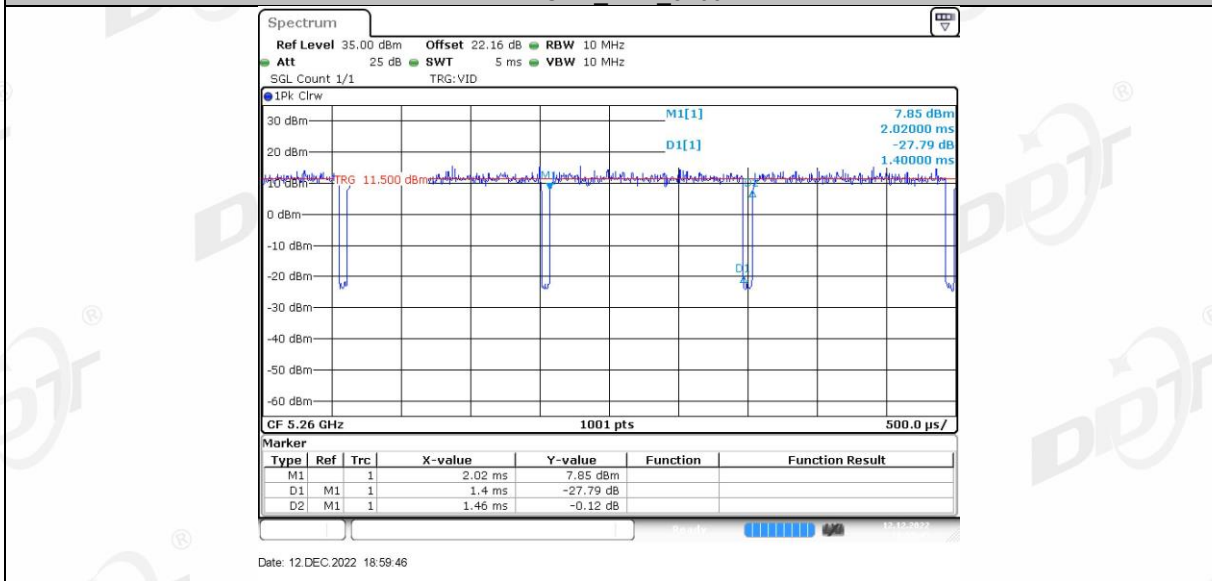
11A-CDD Ant2 5240



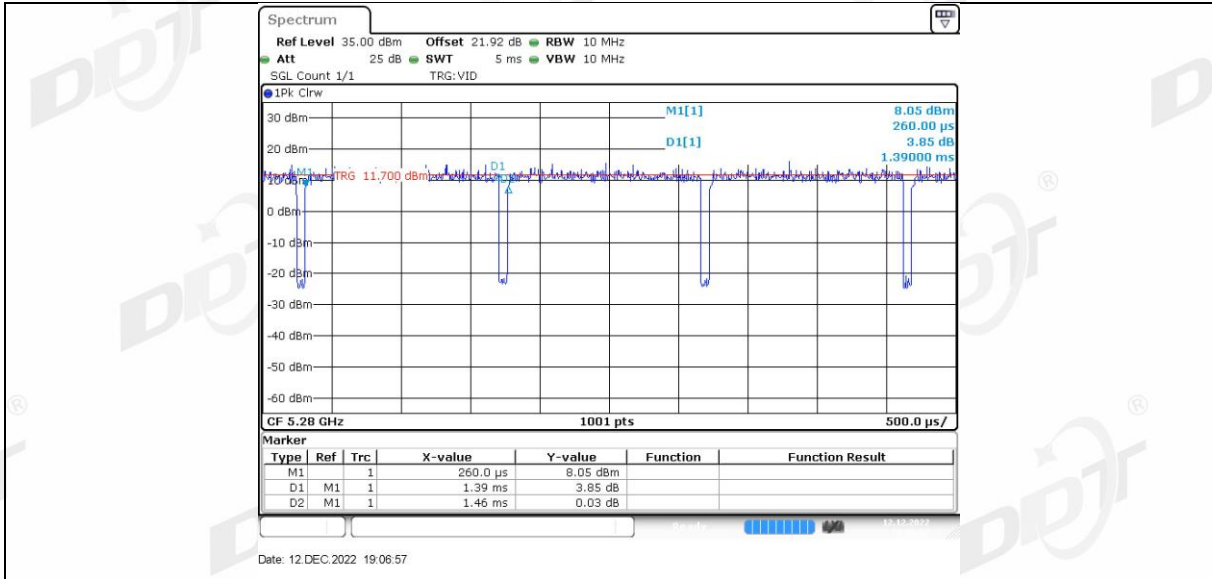
11A-CDD Ant1 5260



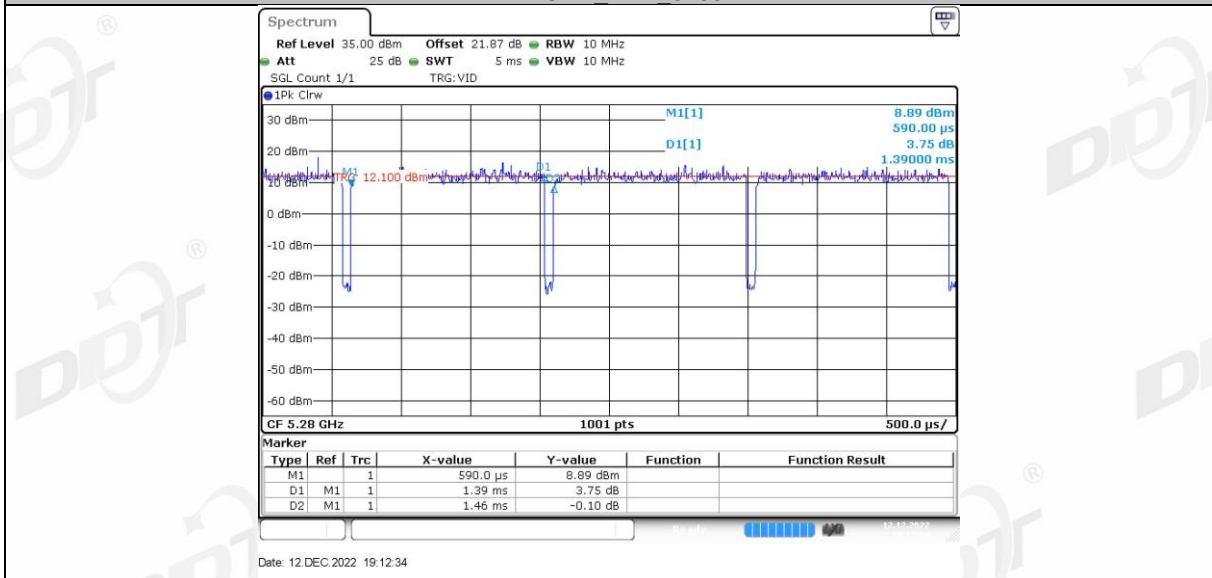
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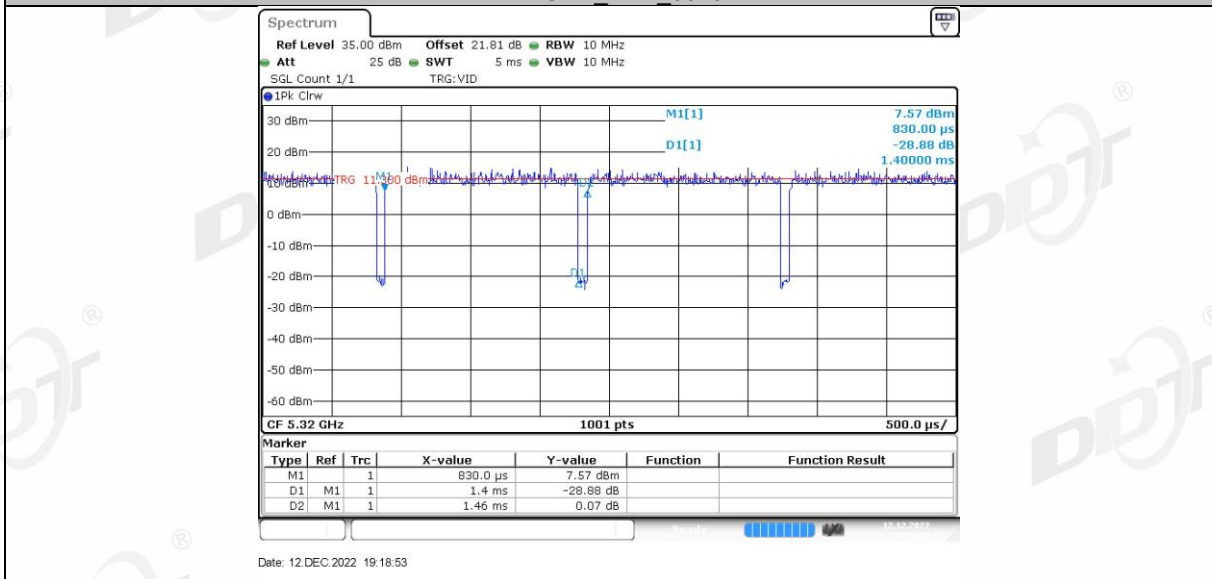
11A-CDD Ant1 5280



11A-CDD Ant2 5280



11A-CDD Ant1 5320



11A-CDD Ant2 5320