



**CTC Laboratories, Inc.**

## **Appendix for 5G WIFI**

**FCC ID: 2AZU3-9101UGL**

**Applicant: Matrixed Reality Technology Co., Ltd.**

**Address: No.6, Xingchuang 2nd Rd., Xinwu Dist., Wuxi,  
China**

**Product Name: Nreal Computing Unit**

**EUT Model: NR-9101UGL**



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## Appendix A1: Emission Bandwidth

### Test Result

| Test Mode | Antenna | Frequency (MHz) | 26dB EBW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------------|----------------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180            | 22.240         | 5168.960 | 5191.200 | ---        | PASS    |
|           | Ant2    | 5180            | 21.520         | 5169.320 | 5190.840 | ---        | PASS    |
|           | Ant1    | 5200            | 22.280         | 5188.880 | 5211.160 | ---        | PASS    |
|           | Ant2    | 5200            | 21.640         | 5189.240 | 5210.880 | ---        | PASS    |
|           | Ant1    | 5240            | 22.240         | 5228.920 | 5251.160 | ---        | PASS    |
|           | Ant2    | 5240            | 23.440         | 5228.320 | 5251.760 | ---        | PASS    |
|           | Ant1    | 5260            | 22.280         | 5248.880 | 5271.160 | ---        | PASS    |
|           | Ant2    | 5260            | 21.560         | 5249.360 | 5270.920 | ---        | PASS    |
|           | Ant1    | 5280            | 22.280         | 5268.880 | 5291.160 | ---        | PASS    |
|           | Ant2    | 5280            | 21.560         | 5269.360 | 5290.920 | ---        | PASS    |
|           | Ant1    | 5320            | 22.240         | 5308.920 | 5331.160 | ---        | PASS    |
|           | Ant2    | 5320            | 21.520         | 5309.280 | 5330.800 | ---        | PASS    |
|           | Ant1    | 5500            | 22.240         | 5488.920 | 5511.160 | ---        | PASS    |
|           | Ant2    | 5500            | 21.440         | 5489.360 | 5510.800 | ---        | PASS    |
|           | Ant1    | 5580            | 22.520         | 5568.880 | 5591.400 | ---        | PASS    |
|           | Ant2    | 5580            | 21.240         | 5569.600 | 5590.840 | ---        | PASS    |
|           | Ant1    | 5700            | 22.280         | 5688.880 | 5711.160 | ---        | PASS    |
|           | Ant2    | 5700            | 21.440         | 5689.360 | 5710.800 | ---        | PASS    |
|           | Ant1    | 5745            | 22.600         | 5733.840 | 5756.440 | ---        | PASS    |
|           | Ant2    | 5745            | 21.440         | 5734.360 | 5755.800 | ---        | PASS    |
|           | Ant1    | 5785            | 22.800         | 5773.680 | 5796.480 | ---        | PASS    |
|           | Ant2    | 5785            | 21.480         | 5774.360 | 5795.840 | ---        | PASS    |
|           | Ant1    | 5825            | 22.840         | 5813.320 | 5836.160 | ---        | PASS    |
|           | Ant2    | 5825            | 21.800         | 5814.200 | 5836.000 | ---        | PASS    |
| 11N20MIMO | Ant1    | 5180            | 23.120         | 5168.680 | 5191.800 | ---        | PASS    |
|           | Ant2    | 5180            | 23.360         | 5168.480 | 5191.840 | ---        | PASS    |
|           | Ant1    | 5200            | 23.080         | 5188.680 | 5211.760 | ---        | PASS    |
|           | Ant2    | 5200            | 23.160         | 5188.480 | 5211.640 | ---        | PASS    |
|           | Ant1    | 5240            | 23.040         | 5228.680 | 5251.720 | ---        | PASS    |
|           | Ant2    | 5240            | 23.720         | 5228.480 | 5252.200 | ---        | PASS    |
|           | Ant1    | 5260            | 22.840         | 5248.920 | 5271.760 | ---        | PASS    |
|           | Ant2    | 5260            | 21.960         | 5249.000 | 5270.960 | ---        | PASS    |
|           | Ant1    | 5280            | 23.400         | 5268.400 | 5291.800 | ---        | PASS    |
|           | Ant2    | 5280            | 23.160         | 5268.440 | 5291.600 | ---        | PASS    |
|           | Ant1    | 5320            | 23.080         | 5308.720 | 5331.800 | ---        | PASS    |
|           | Ant2    | 5320            | 21.560         | 5309.320 | 5330.880 | ---        | PASS    |
|           | Ant1    | 5500            | 22.560         | 5488.760 | 5511.320 | ---        | PASS    |



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|            |      |      |        |          |          |     |      |
|------------|------|------|--------|----------|----------|-----|------|
|            | Ant2 | 5500 | 22.440 | 5488.920 | 5511.360 | --- | PASS |
|            | Ant1 | 5580 | 22.640 | 5568.760 | 5591.400 | --- | PASS |
|            | Ant2 | 5580 | 21.800 | 5569.080 | 5590.880 | --- | PASS |
|            | Ant1 | 5700 | 23.040 | 5688.800 | 5711.840 | --- | PASS |
|            | Ant2 | 5700 | 22.760 | 5688.480 | 5711.240 | --- | PASS |
|            | Ant1 | 5745 | 22.600 | 5733.800 | 5756.400 | --- | PASS |
|            | Ant2 | 5745 | 21.840 | 5734.080 | 5755.920 | --- | PASS |
|            | Ant1 | 5785 | 23.160 | 5773.680 | 5796.840 | --- | PASS |
|            | Ant2 | 5785 | 21.880 | 5774.000 | 5795.880 | --- | PASS |
|            | Ant1 | 5825 | 23.760 | 5813.680 | 5837.440 | --- | PASS |
|            | Ant2 | 5825 | 21.920 | 5813.960 | 5835.880 | --- | PASS |
| 11N40MIMO  | Ant1 | 5190 | 42.080 | 5168.880 | 5210.960 | --- | PASS |
|            | Ant2 | 5190 | 40.880 | 5169.600 | 5210.480 | --- | PASS |
|            | Ant1 | 5230 | 41.920 | 5208.880 | 5250.800 | --- | PASS |
|            | Ant2 | 5230 | 40.880 | 5209.600 | 5250.480 | --- | PASS |
|            | Ant1 | 5270 | 42.000 | 5248.880 | 5290.880 | --- | PASS |
|            | Ant2 | 5270 | 41.120 | 5249.520 | 5290.640 | --- | PASS |
|            | Ant1 | 5310 | 42.000 | 5289.040 | 5331.040 | --- | PASS |
|            | Ant2 | 5310 | 41.360 | 5289.440 | 5330.800 | --- | PASS |
|            | Ant1 | 5510 | 42.240 | 5489.040 | 5531.280 | --- | PASS |
|            | Ant2 | 5510 | 41.600 | 5489.280 | 5530.880 | --- | PASS |
|            | Ant1 | 5550 | 42.080 | 5528.880 | 5570.960 | --- | PASS |
|            | Ant2 | 5550 | 41.760 | 5529.200 | 5570.960 | --- | PASS |
|            | Ant1 | 5670 | 42.080 | 5648.880 | 5690.960 | --- | PASS |
|            | Ant2 | 5670 | 41.040 | 5649.840 | 5690.880 | --- | PASS |
|            | Ant1 | 5755 | 42.320 | 5733.720 | 5776.040 | --- | PASS |
|            | Ant2 | 5755 | 40.800 | 5734.680 | 5775.480 | --- | PASS |
|            | Ant1 | 5795 | 42.240 | 5773.720 | 5815.960 | --- | PASS |
|            | Ant2 | 5795 | 40.960 | 5774.600 | 5815.560 | --- | PASS |
| 11AC20MIMO | Ant1 | 5180 | 23.480 | 5168.160 | 5191.640 | --- | PASS |
|            | Ant2 | 5180 | 23.200 | 5168.440 | 5191.640 | --- | PASS |
|            | Ant1 | 5200 | 23.280 | 5188.320 | 5211.600 | --- | PASS |
|            | Ant2 | 5200 | 22.080 | 5189.240 | 5211.320 | --- | PASS |
|            | Ant1 | 5240 | 23.400 | 5228.320 | 5251.720 | --- | PASS |
|            | Ant2 | 5240 | 22.160 | 5229.200 | 5251.360 | --- | PASS |
|            | Ant1 | 5260 | 22.840 | 5248.360 | 5271.200 | --- | PASS |
|            | Ant2 | 5260 | 22.360 | 5249.280 | 5271.640 | --- | PASS |
|            | Ant1 | 5280 | 23.160 | 5268.080 | 5291.240 | --- | PASS |
|            | Ant2 | 5280 | 22.080 | 5269.240 | 5291.320 | --- | PASS |
|            | Ant1 | 5320 | 22.920 | 5309.120 | 5332.040 | --- | PASS |
|            | Ant2 | 5320 | 23.280 | 5308.720 | 5332.000 | --- | PASS |
|            | Ant1 | 5500 | 22.880 | 5488.320 | 5511.200 | --- | PASS |
|            | Ant2 | 5500 | 21.760 | 5489.320 | 5511.080 | --- | PASS |



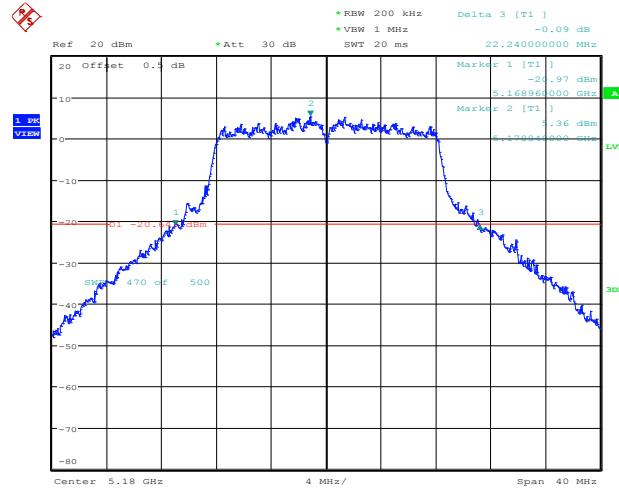
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|            |      |      |        |          |          |     |      |
|------------|------|------|--------|----------|----------|-----|------|
|            | Ant1 | 5580 | 23.280 | 5568.320 | 5591.600 | --- | PASS |
|            | Ant2 | 5580 | 23.680 | 5568.360 | 5592.040 | --- | PASS |
|            | Ant1 | 5700 | 23.480 | 5688.240 | 5711.720 | --- | PASS |
|            | Ant2 | 5700 | 22.200 | 5688.960 | 5711.160 | --- | PASS |
|            | Ant1 | 5745 | 23.560 | 5733.160 | 5756.720 | --- | PASS |
|            | Ant2 | 5745 | 21.840 | 5734.240 | 5756.080 | --- | PASS |
|            | Ant1 | 5785 | 23.960 | 5773.200 | 5797.160 | --- | PASS |
|            | Ant2 | 5785 | 22.520 | 5774.120 | 5796.640 | --- | PASS |
|            | Ant1 | 5825 | 23.560 | 5813.120 | 5836.680 | --- | PASS |
|            | Ant2 | 5825 | 22.120 | 5814.200 | 5836.320 | --- | PASS |
| 11AC40MIMO | Ant1 | 5190 | 41.600 | 5169.200 | 5210.800 | --- | PASS |
|            | Ant2 | 5190 | 41.680 | 5169.200 | 5210.880 | --- | PASS |
|            | Ant1 | 5230 | 41.440 | 5209.280 | 5250.720 | --- | PASS |
|            | Ant2 | 5230 | 41.360 | 5209.200 | 5250.560 | --- | PASS |
|            | Ant1 | 5270 | 41.600 | 5249.200 | 5290.800 | --- | PASS |
|            | Ant2 | 5270 | 41.360 | 5249.360 | 5290.720 | --- | PASS |
|            | Ant1 | 5310 | 41.680 | 5289.280 | 5330.960 | --- | PASS |
|            | Ant2 | 5310 | 41.600 | 5289.200 | 5330.800 | --- | PASS |
|            | Ant1 | 5510 | 41.520 | 5489.280 | 5530.800 | --- | PASS |
|            | Ant2 | 5510 | 40.880 | 5489.680 | 5530.560 | --- | PASS |
|            | Ant1 | 5550 | 45.040 | 5527.040 | 5572.080 | --- | PASS |
|            | Ant2 | 5550 | 41.440 | 5529.440 | 5570.880 | --- | PASS |
|            | Ant1 | 5670 | 41.440 | 5649.360 | 5690.800 | --- | PASS |
|            | Ant2 | 5670 | 41.120 | 5649.760 | 5690.880 | --- | PASS |
|            | Ant1 | 5755 | 41.840 | 5734.280 | 5776.120 | --- | PASS |
|            | Ant2 | 5755 | 40.960 | 5734.680 | 5775.640 | --- | PASS |
| 11AC80MIMO | Ant1 | 5795 | 41.520 | 5774.280 | 5815.800 | --- | PASS |
|            | Ant2 | 5795 | 40.320 | 5774.840 | 5815.160 | --- | PASS |
|            | Ant1 | 5210 | 84.000 | 5168.080 | 5252.080 | --- | PASS |
|            | Ant2 | 5210 | 82.720 | 5168.560 | 5251.280 | --- | PASS |
|            | Ant1 | 5290 | 84.960 | 5247.760 | 5332.720 | --- | PASS |
|            | Ant2 | 5290 | 82.080 | 5249.840 | 5331.920 | --- | PASS |
|            | Ant1 | 5530 | 84.160 | 5488.080 | 5572.240 | --- | PASS |
|            | Ant2 | 5530 | 83.840 | 5488.240 | 5572.080 | --- | PASS |
|            | Ant1 | 5610 | 84.800 | 5567.760 | 5652.560 | --- | PASS |
|            | Ant2 | 5610 | 81.600 | 5569.840 | 5651.440 | --- | PASS |
|            | Ant1 | 5775 | 85.120 | 5732.600 | 5817.720 | --- | PASS |
|            | Ant2 | 5775 | 82.400 | 5733.720 | 5816.120 | --- | PASS |



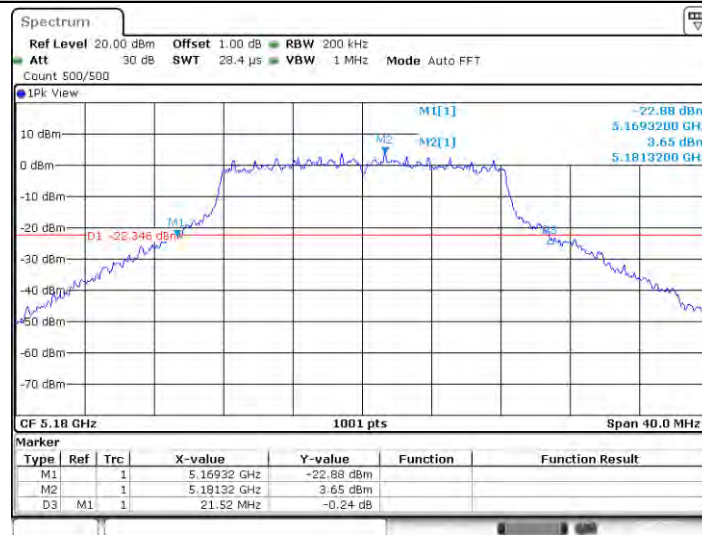
## Test Graphs

11A\_Ant1\_5180



Date: 23.NOV.2020 17:17:10

11A\_Ant2\_5180

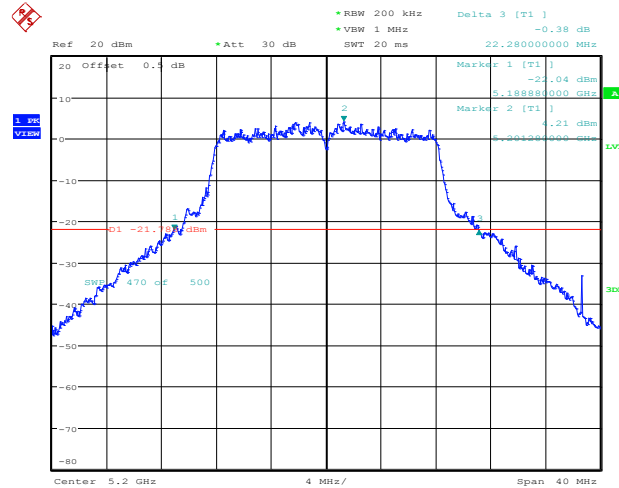


Date: 12.MAY.2021 14:55:12

11A\_Ant1\_5200

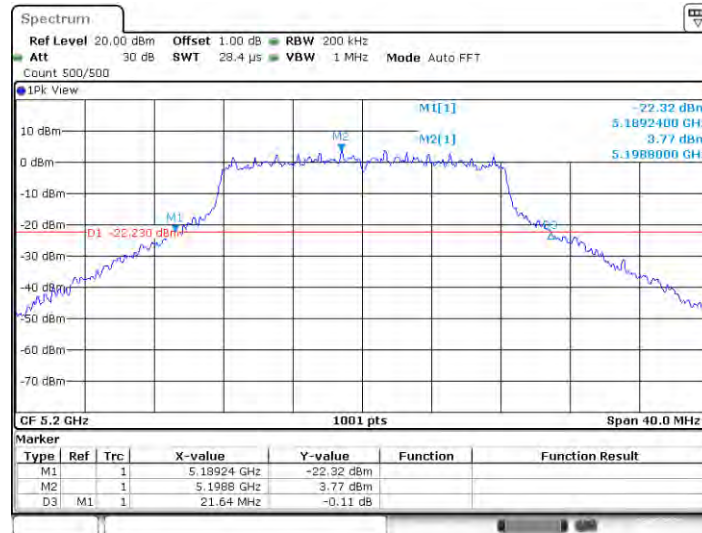


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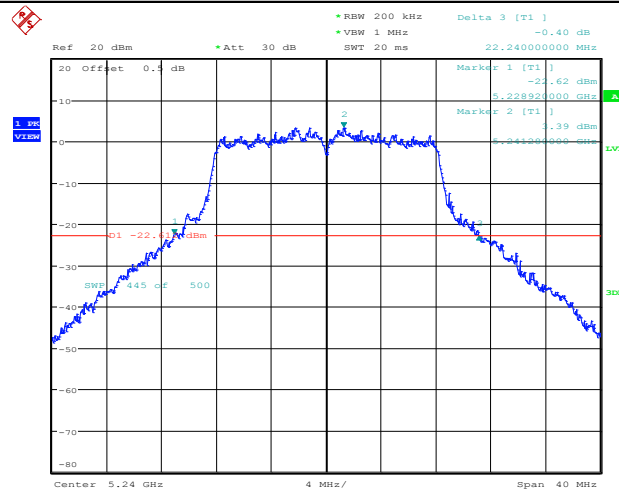
Date: 23.NOV.2020 17:23:20

## 11A\_Ant2\_5200



Date: 12.MAY.2021 14:56:41

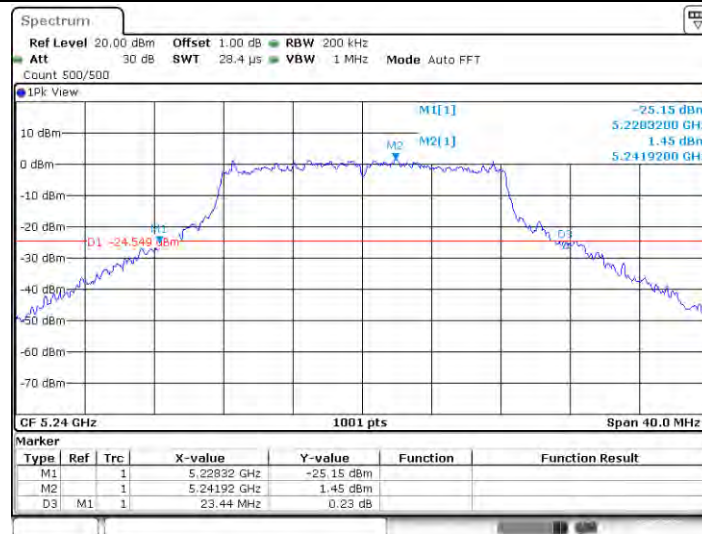
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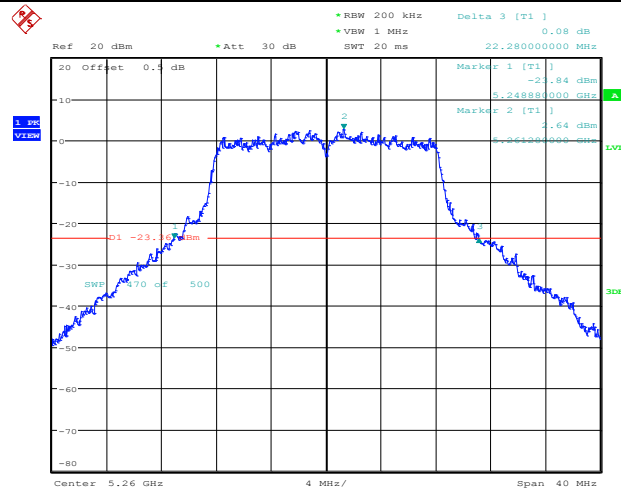
Date: 23.NOV.2020 17:25:33



11A\_Ant2\_5240



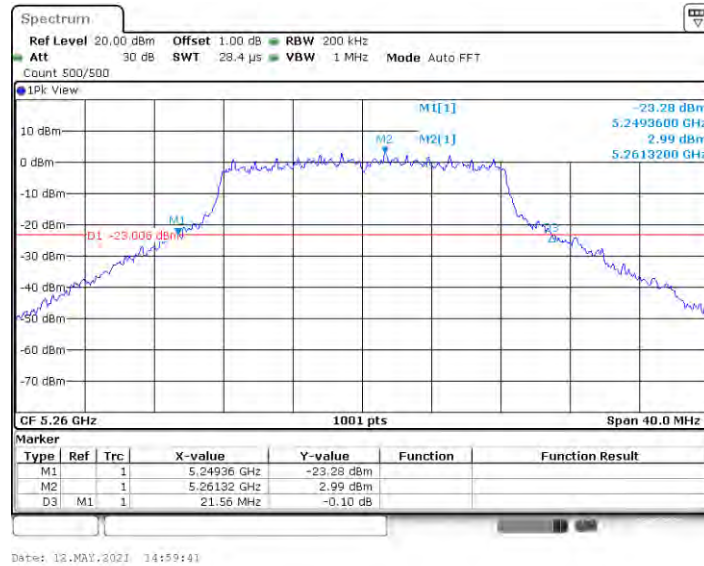
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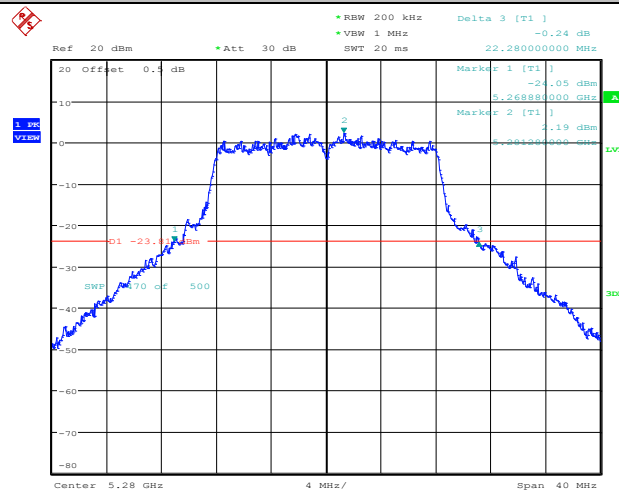
11A\_Ant2\_5260



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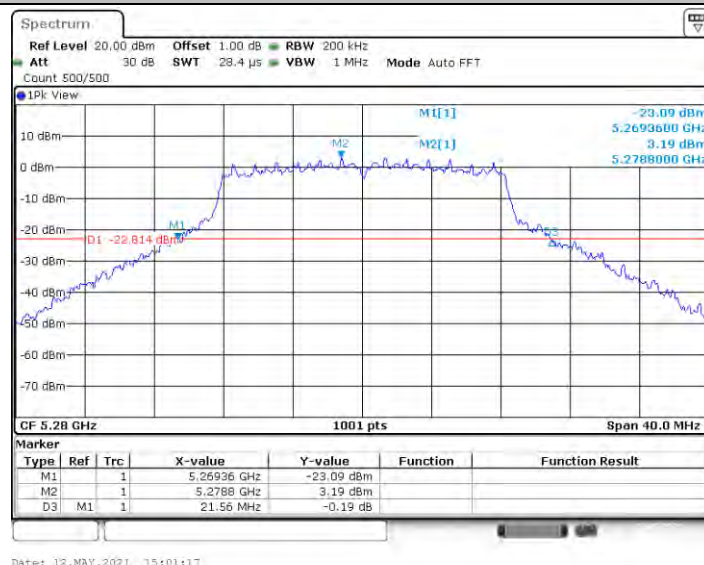


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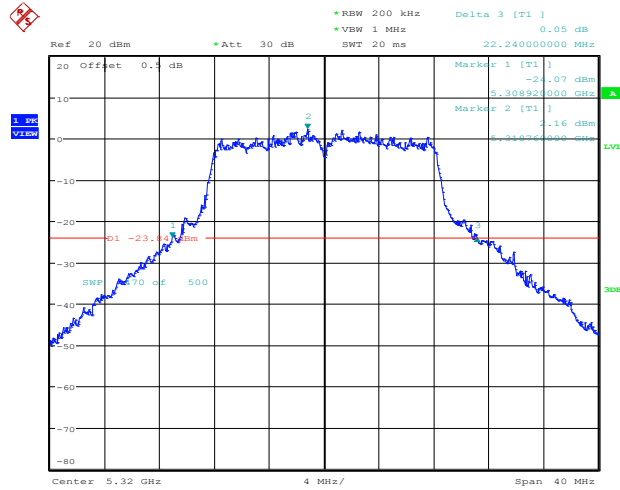
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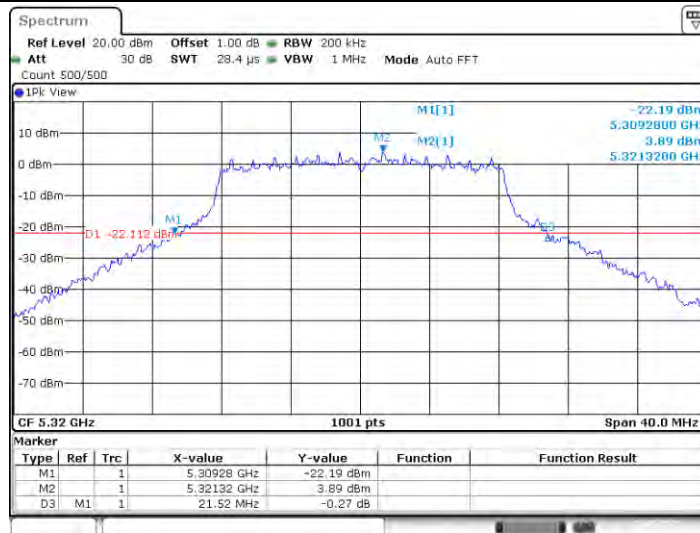


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Date: 23.NOV.2020 17:31:56

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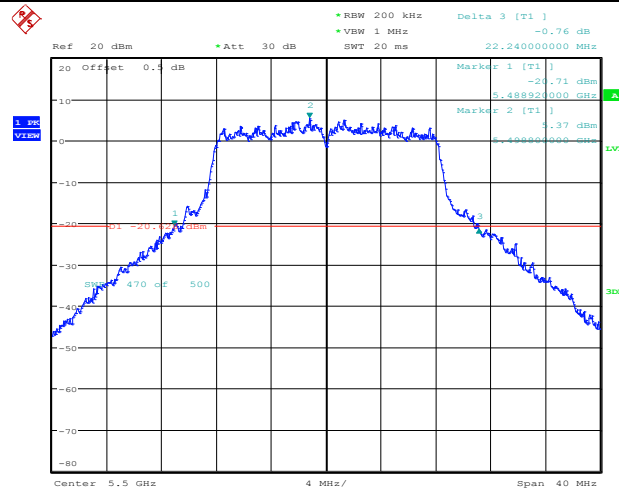


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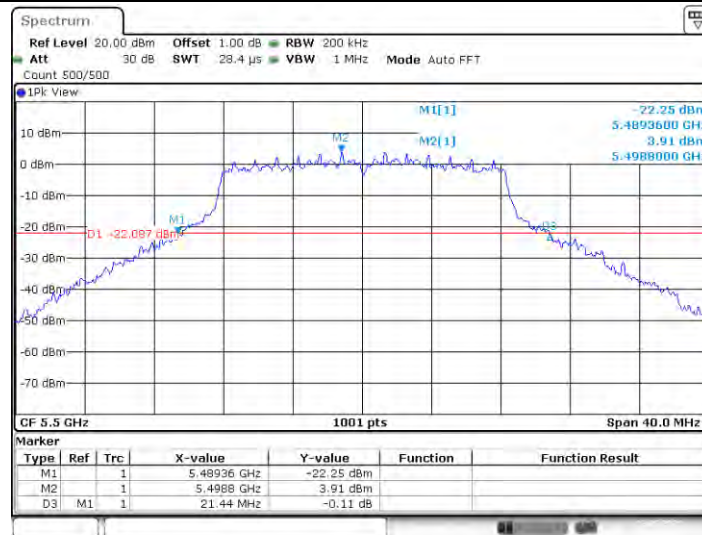


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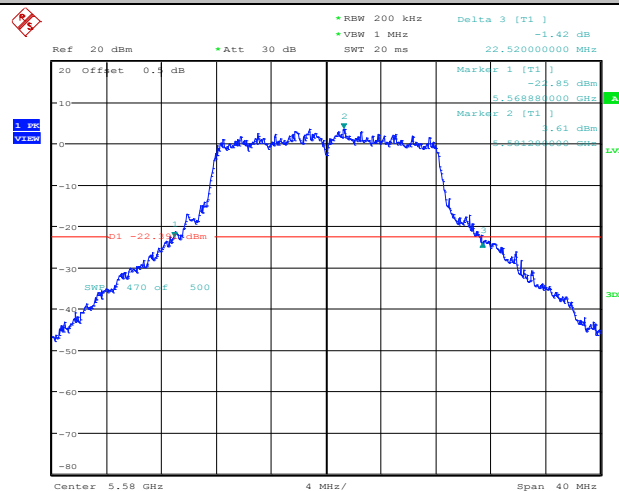


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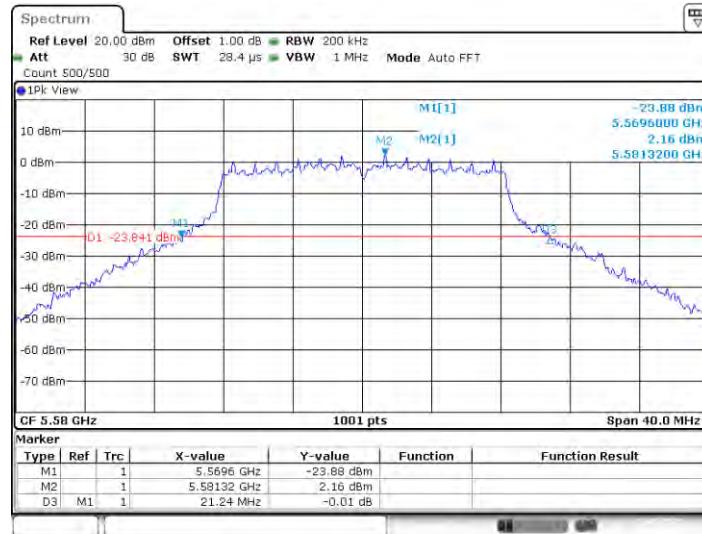
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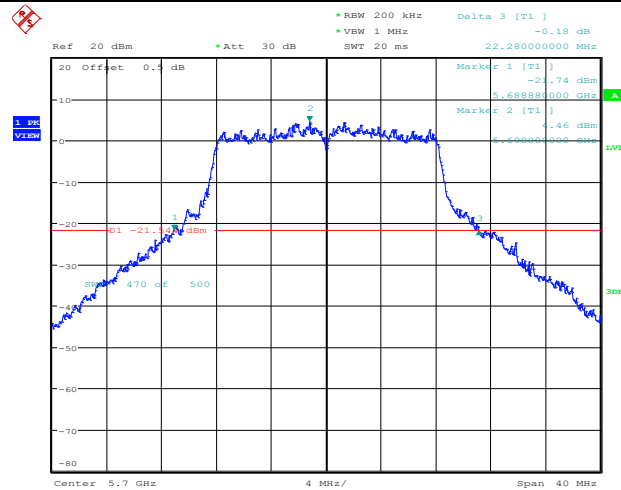


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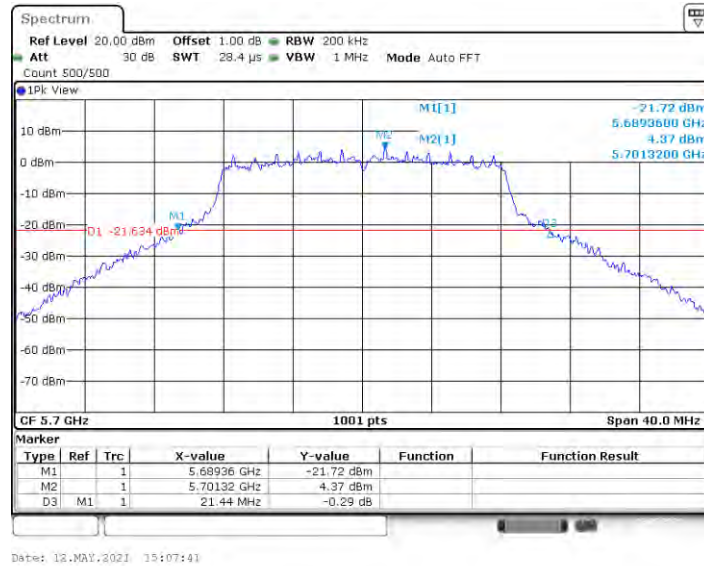
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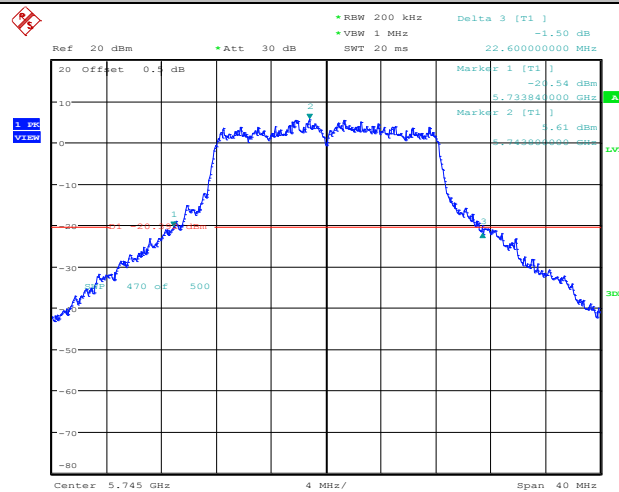


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11A\_Ant2\_5700

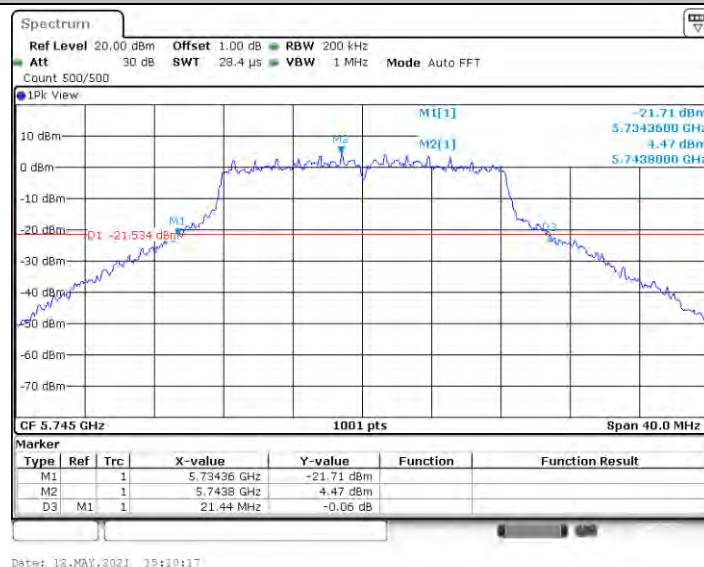


11A\_Ant1\_5745



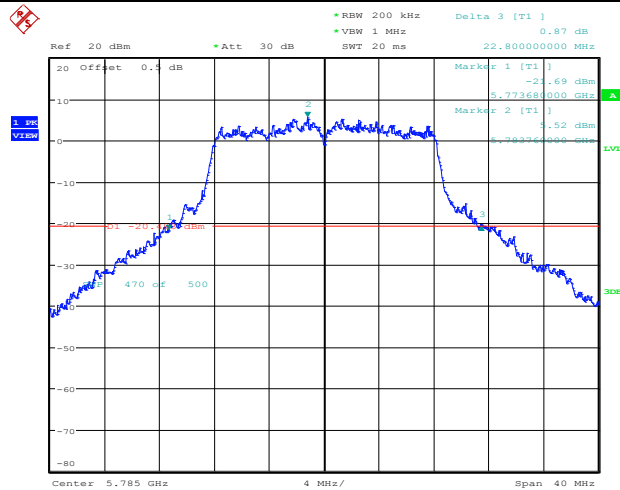
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11A\_Ant2\_5745



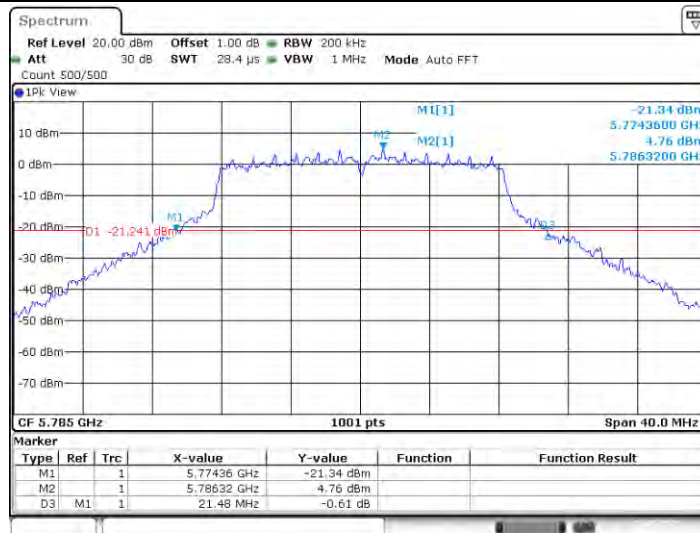


11A\_Ant1\_5785



Date: 23.NOV.2020 17:47:46

11A\_Ant2\_5785

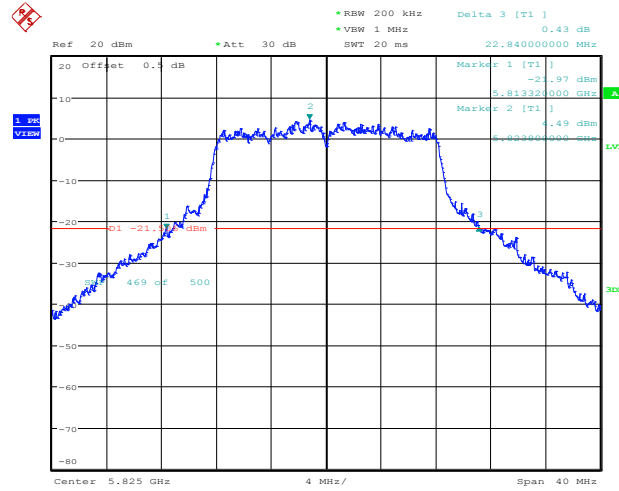


Date: 18.MAY.2021 15:12:07

11A\_Ant1\_5825

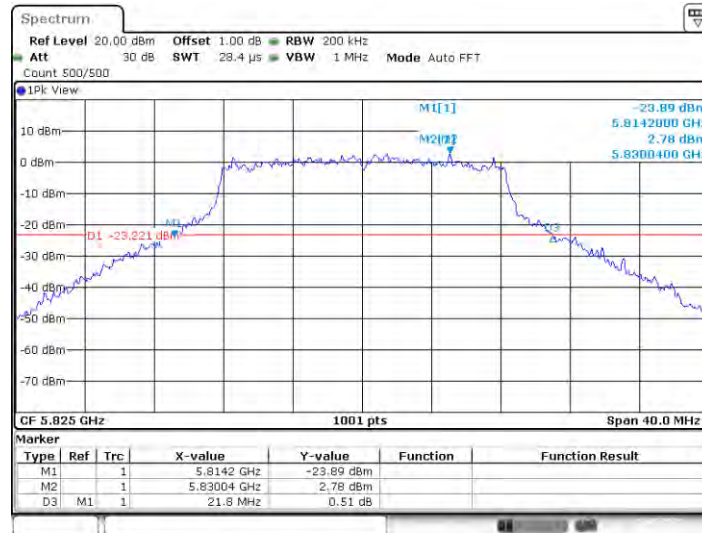


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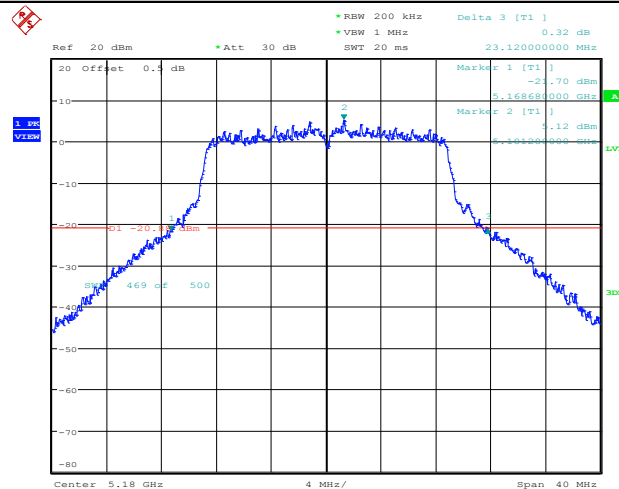
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## 11A\_Ant2\_5825



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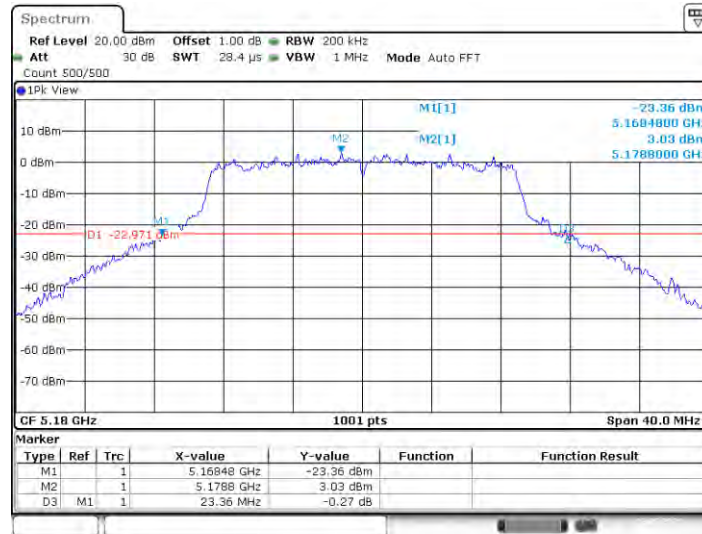
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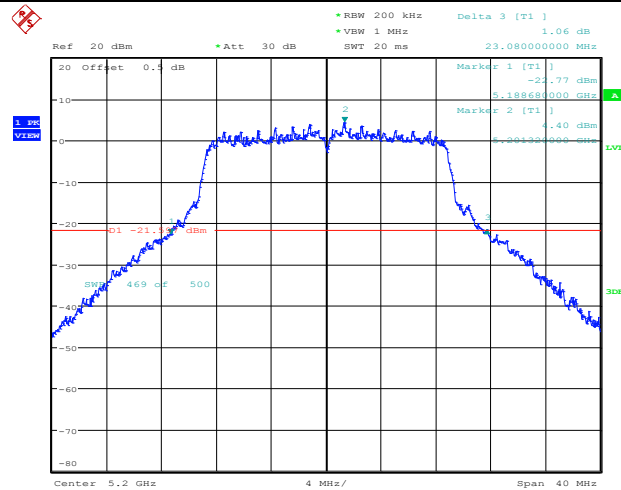


11N20MIMO\_Ant2\_5180



Date: 18.MAY.2021 15:15:49

11N20MIMO\_Ant1\_5200



Date: 24.NOV.2020 11:32:47

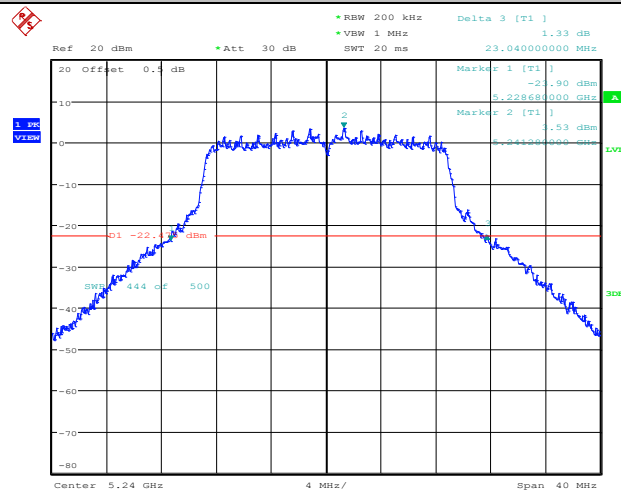
11N20MIMO\_Ant2\_5200



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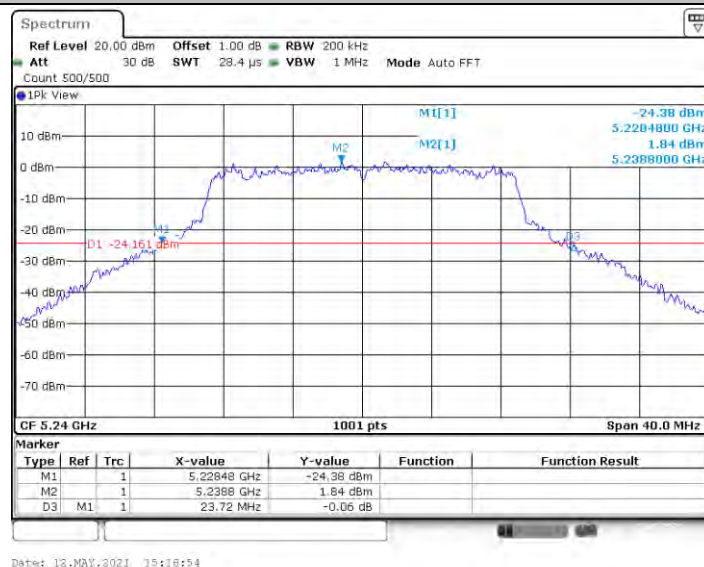


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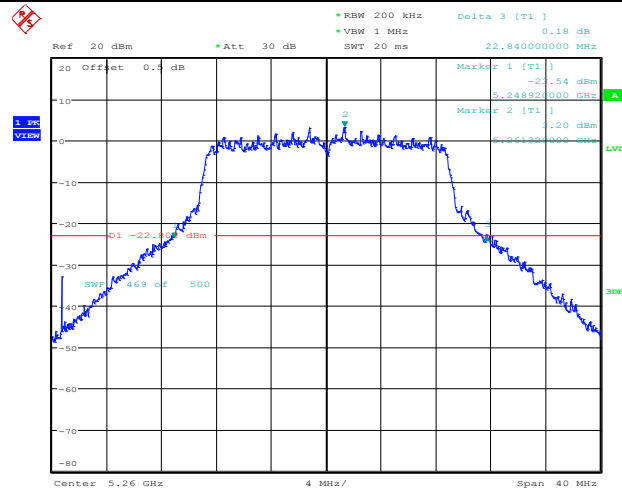
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11N20MIMO\_Ant2\_5240



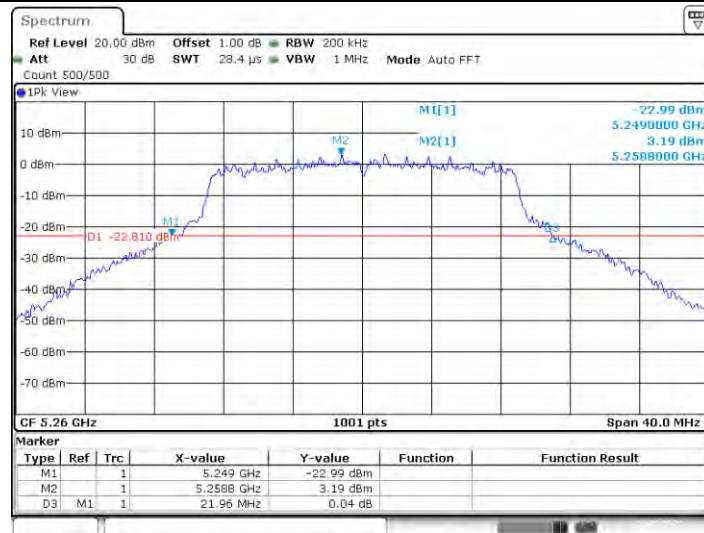


11N20MIMO\_Ant1\_5260



Date: 24.NOV.2020 11:36:27

11N20MIMO\_Ant2\_5260

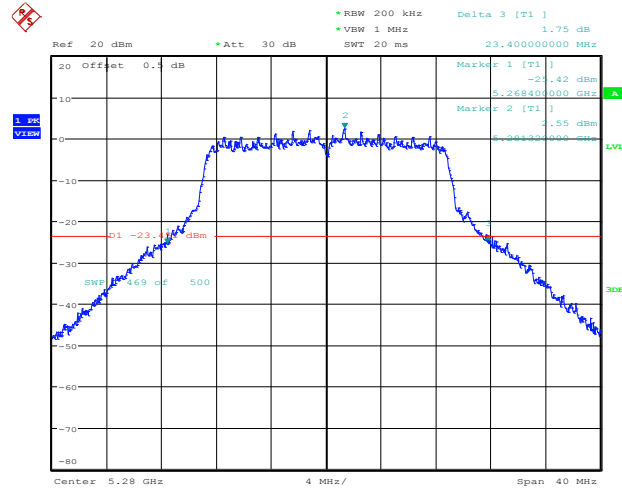


Date: 18.MAY.2021 15:20:20

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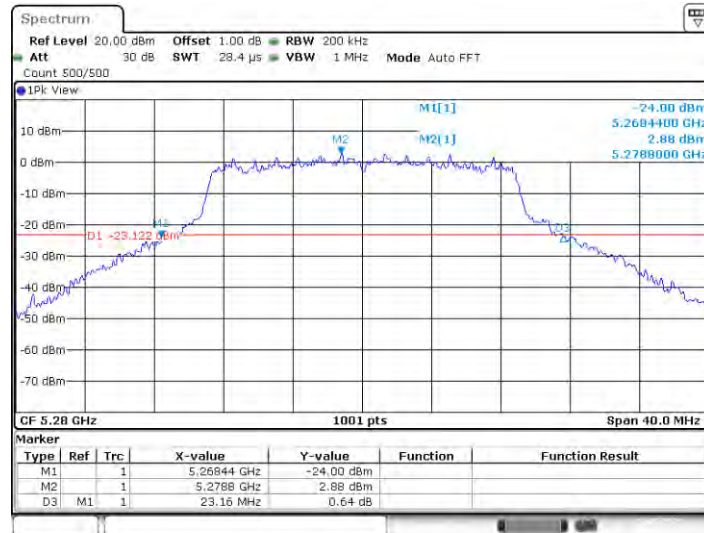


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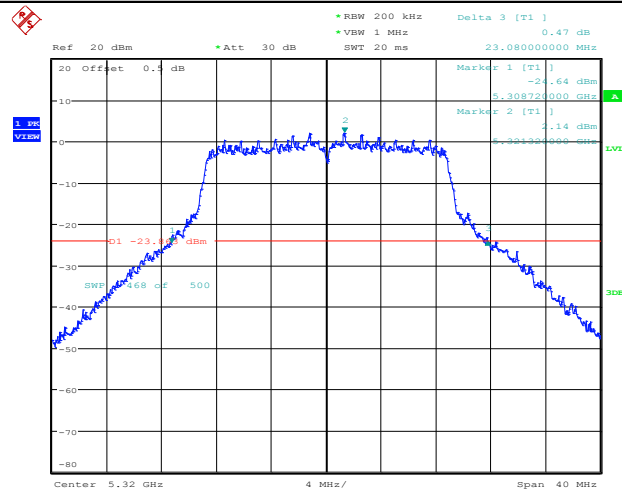
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## 11N20MIMO\_Ant2\_5280



Date: 12.MAY.2021 15:21:53

## 11N20MIMO\_Ant1\_5320



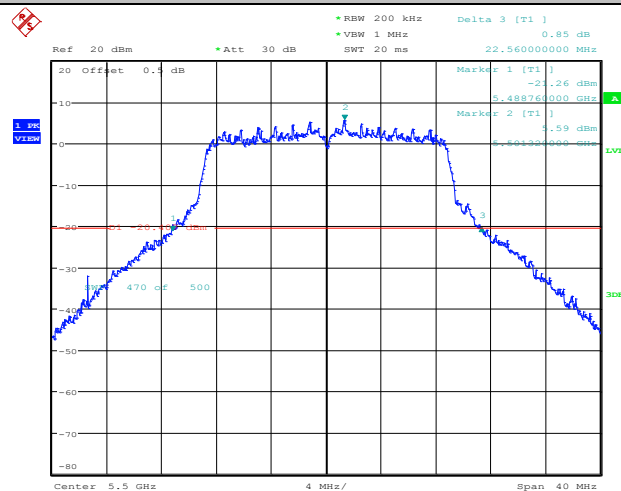
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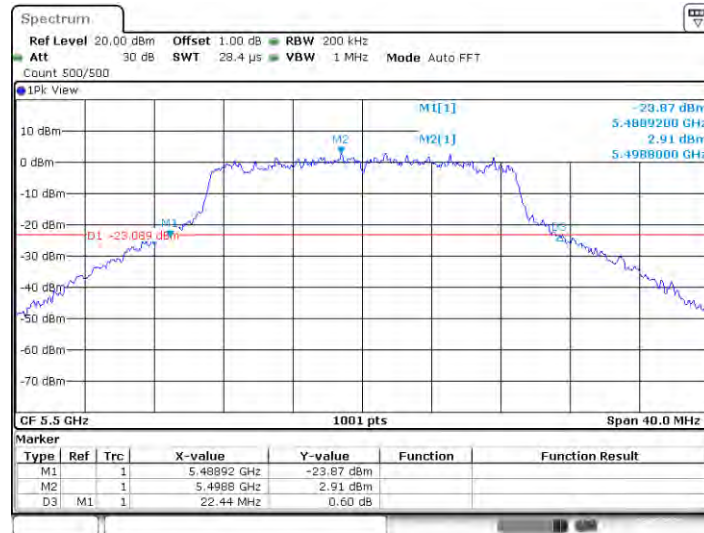
11N20MIMO\_Ant2\_5320



11N20MIMO\_Ant1\_5500

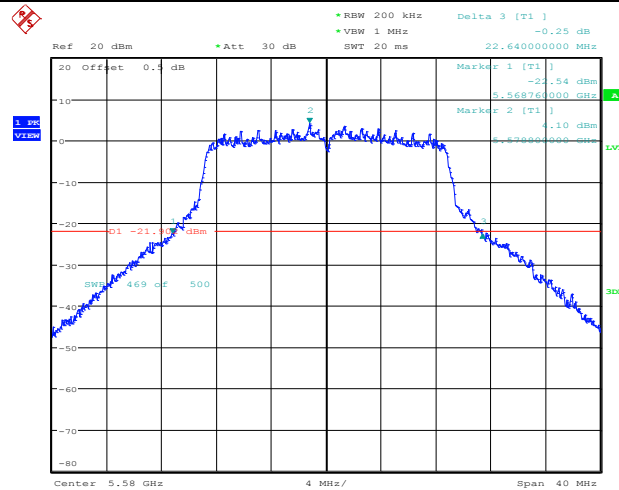


11N20MIMO\_Ant2\_5500



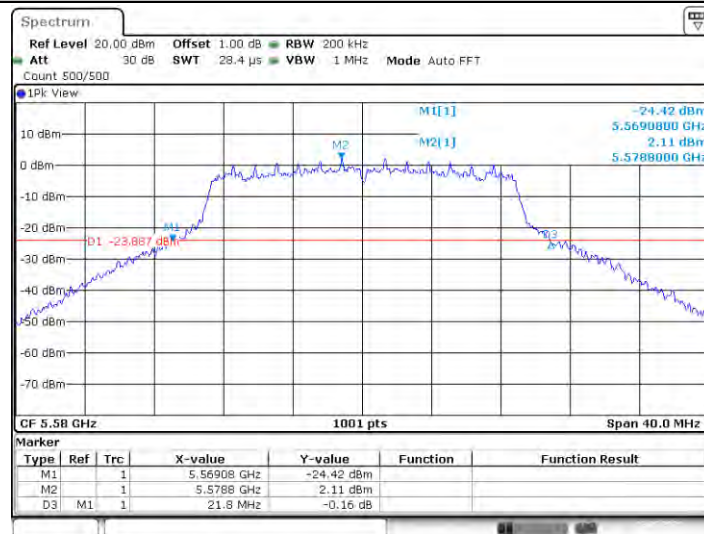
Date: 12.MAY.2021 15:25:10

### 11N20MIMO\_Ant1\_5580



Date: 24.NOV.2020 11:47:56

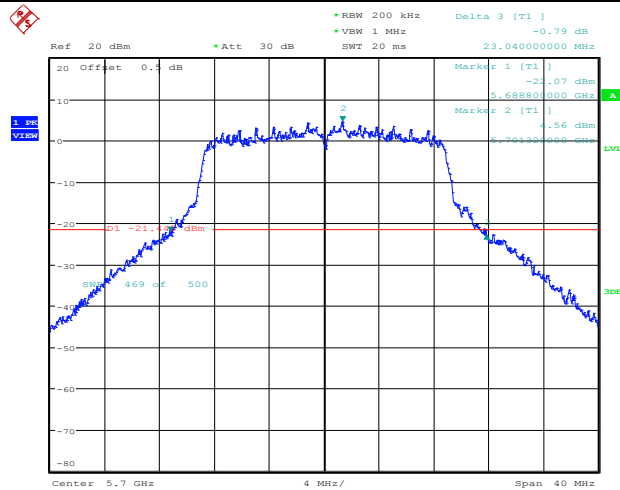
### 11N20MIMO\_Ant2\_5580



Date: 12.MAY.2021 15:26:16

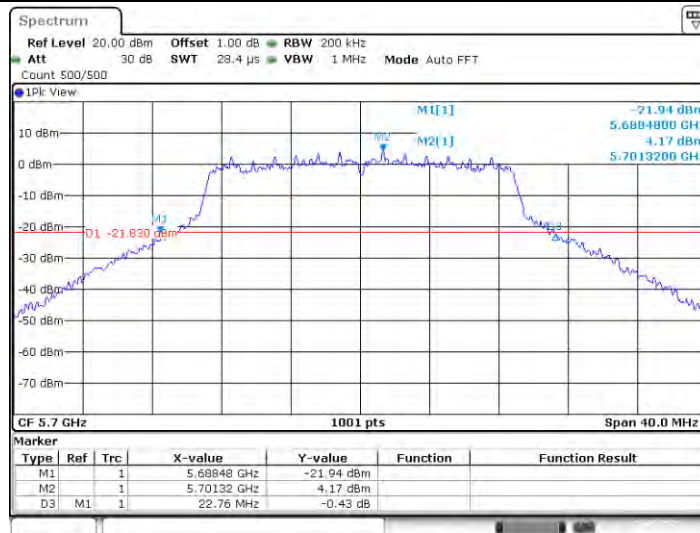


11N20MIMO\_Ant1\_5700



Date: 24.NOV.2020 11:49:45

11N20MIMO\_Ant2\_5700

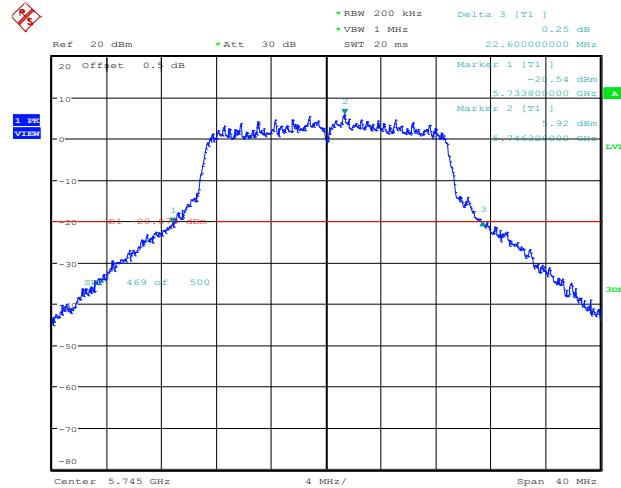


Date: 12.MAY.2021 15:29:19

11N20MIMO\_Ant1\_5745

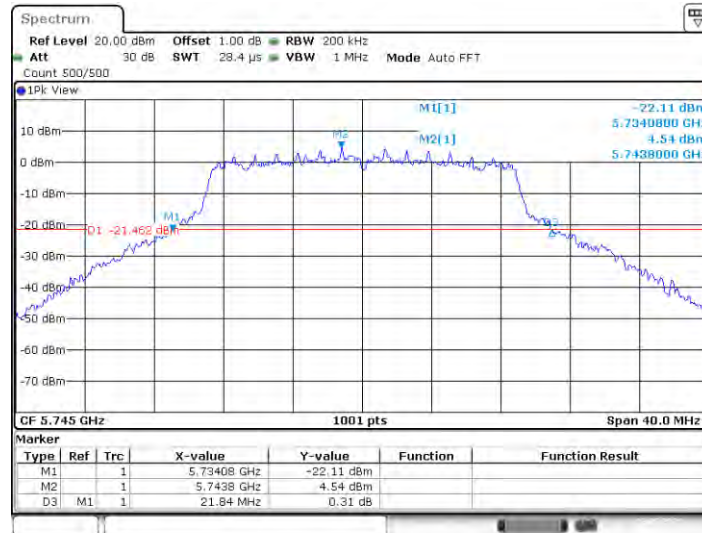


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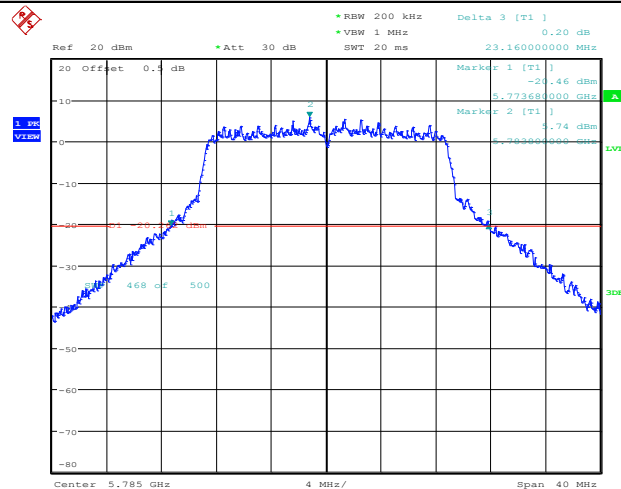
Date: 24.NOV.2020 11:52:41

## 11N20MIMO\_Ant2\_5745



Date: 12.MAY.2021 15:52:39

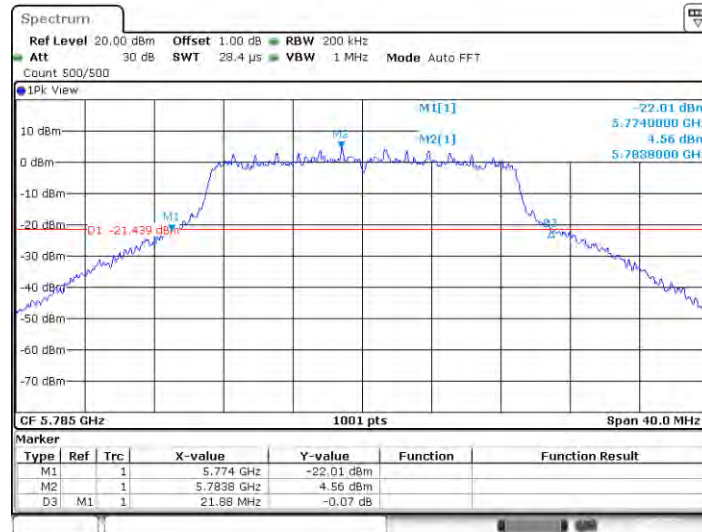
## 11N20MIMO\_Ant1\_5785



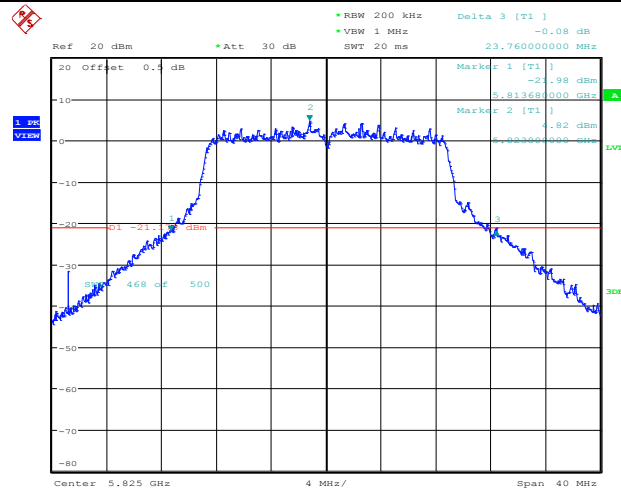
Date: 24.NOV.2020 11:56:08



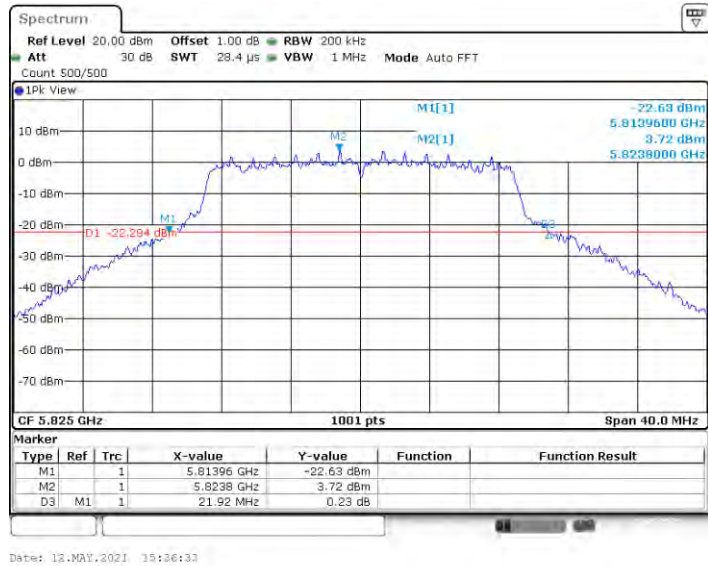
11N20MIMO\_Ant2\_5785



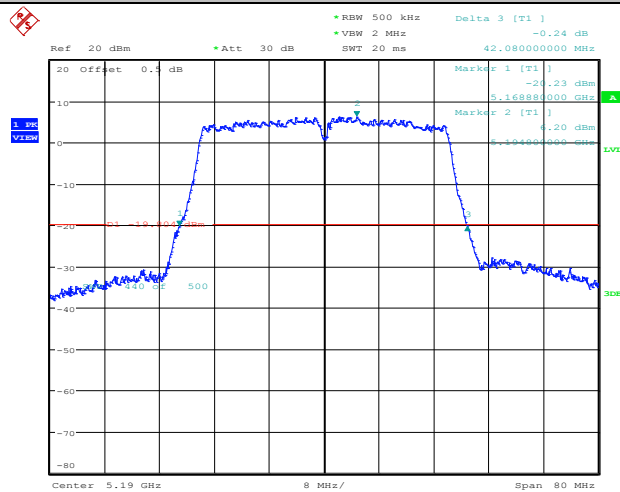
11N20MIMO\_Ant1\_5825



11N20MIMO\_Ant2\_5825



11N40MIMO\_Ant1\_5190



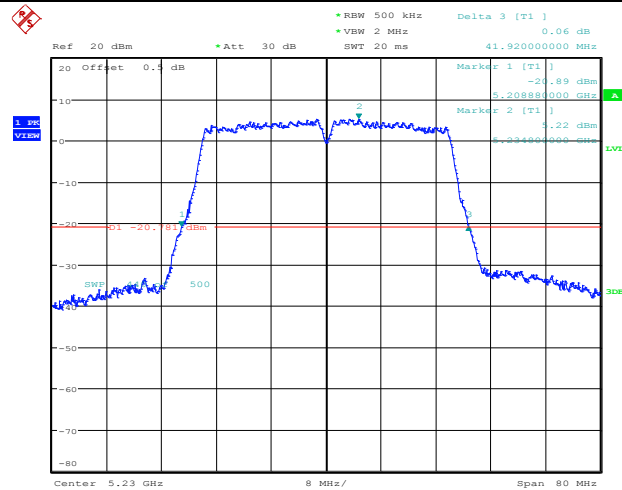
Date: 24.NOV.2020 13:44:57

11N40MIMO\_Ant2\_5190



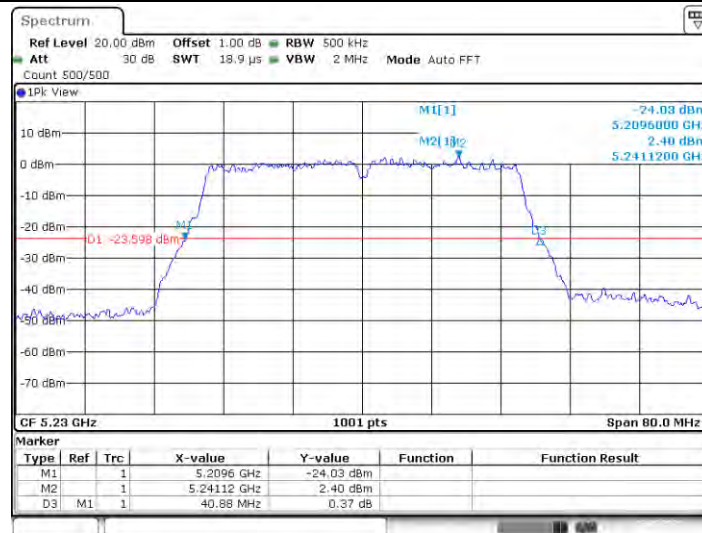


11N40MIMO\_Ant1\_5230



Date: 24.NOV.2020 13:48:44

11N40MIMO\_Ant2\_5230

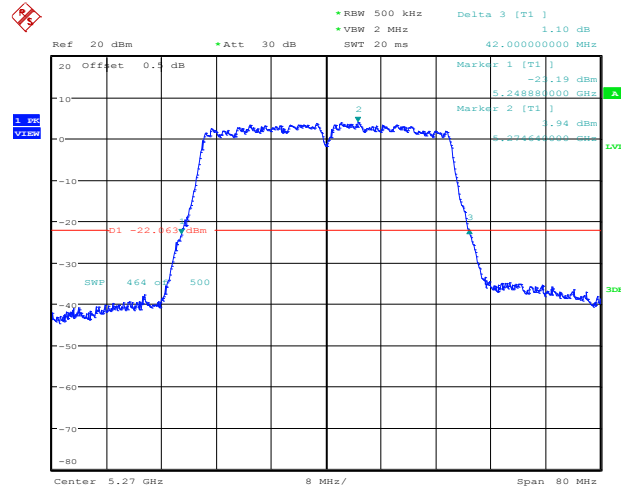


Date: 12.MAY.2021 15:40:27

11N40MIMO\_Ant1\_5270

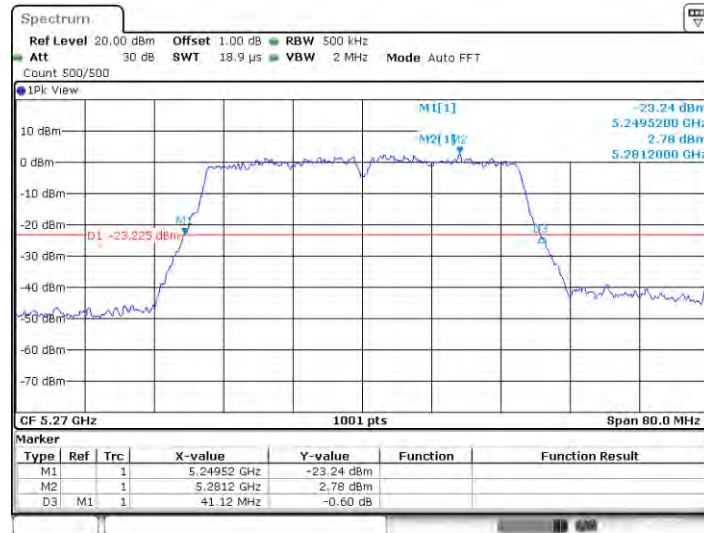


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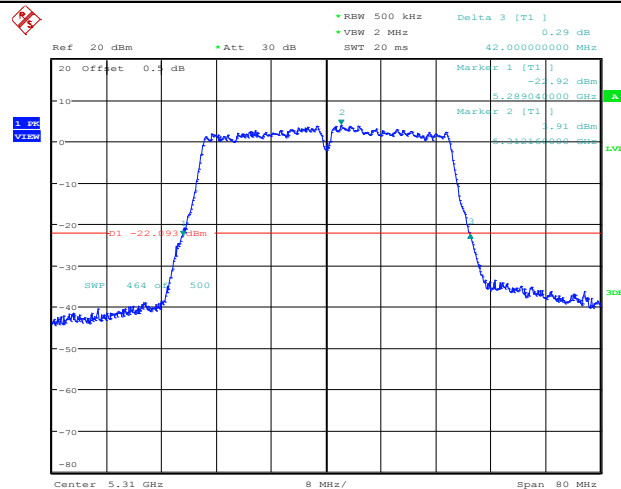
Date: 24.NOV.2020 13:50:35

## 11N40MIMO\_Ant2\_5270



Date: 12.MAY.2021 15:42:45

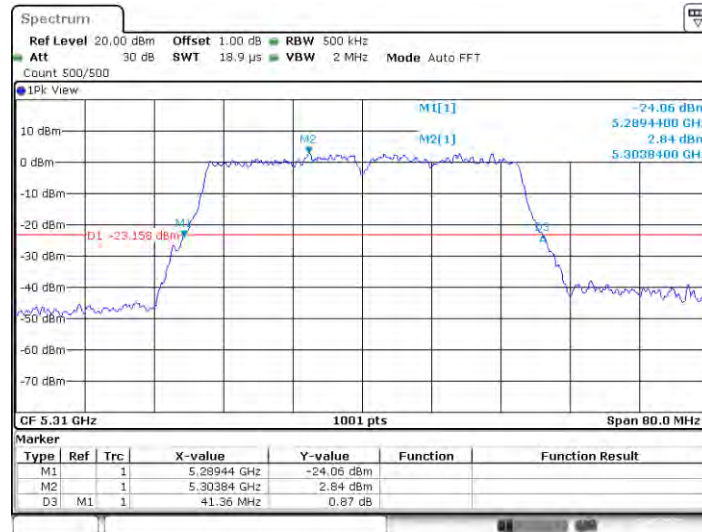
## 11N40MIMO\_Ant1\_5310



Date: 24.NOV.2020 13:52:27

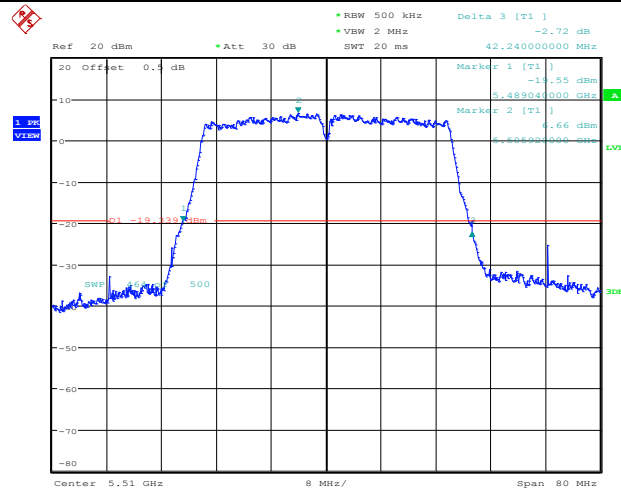


11N40MIMO\_Ant2\_5310



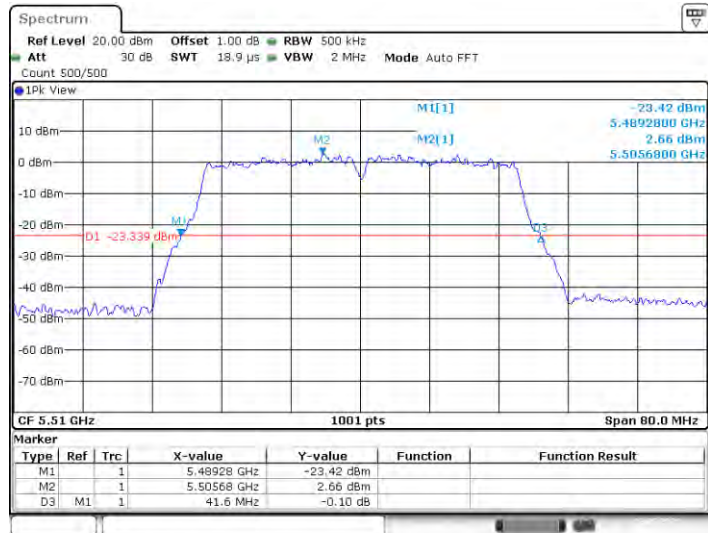
Date: 12.MAY.2021 15:44:12

11N40MIMO\_Ant1\_5510



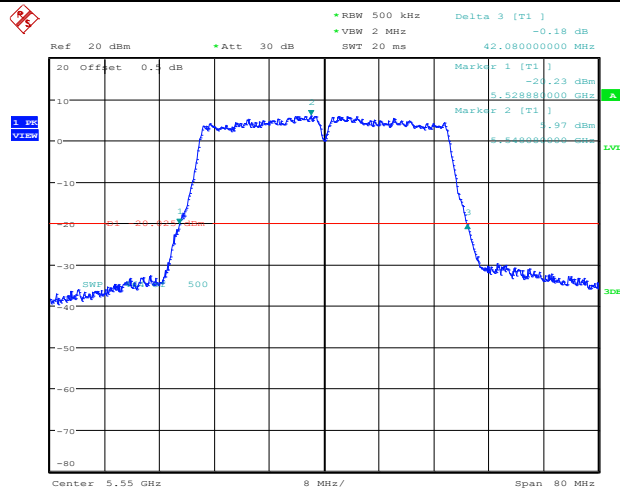
Date: 24.NOV.2020 13:55:43

11N40MIMO\_Ant2\_5510



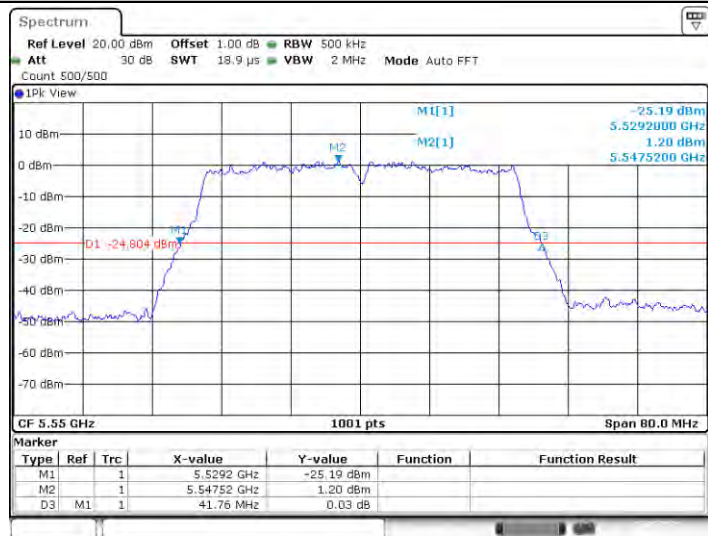
Date: 12.MAY.2021 15:45:37

### 11N40MIMO\_Ant1\_5550



Date: 24.NOV.2020 13:58:39

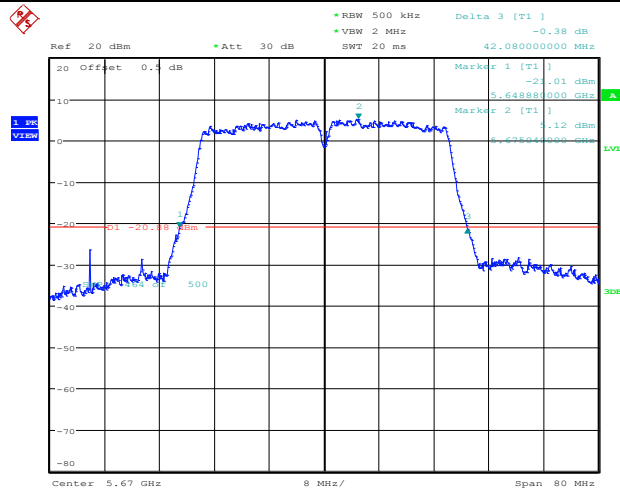
### 11N40MIMO\_Ant2\_5550



Date: 12.MAY.2021 15:47:07

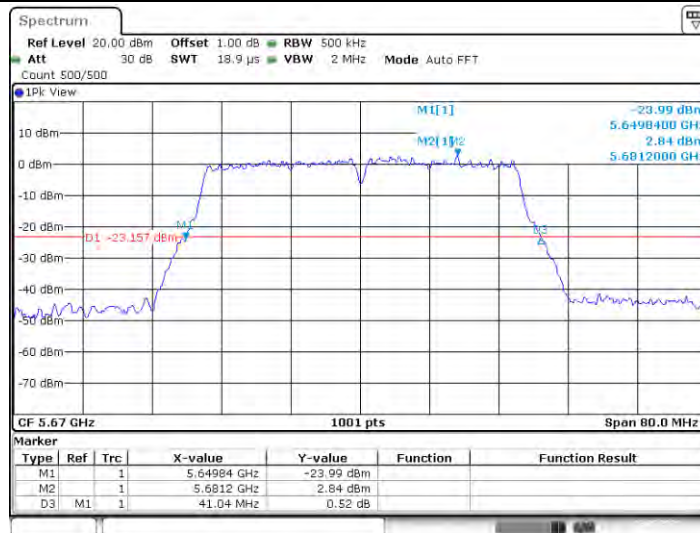


11N40MIMO\_Ant1\_5670



Date: 24.NOV.2020 14:00:49

11N40MIMO\_Ant2\_5670

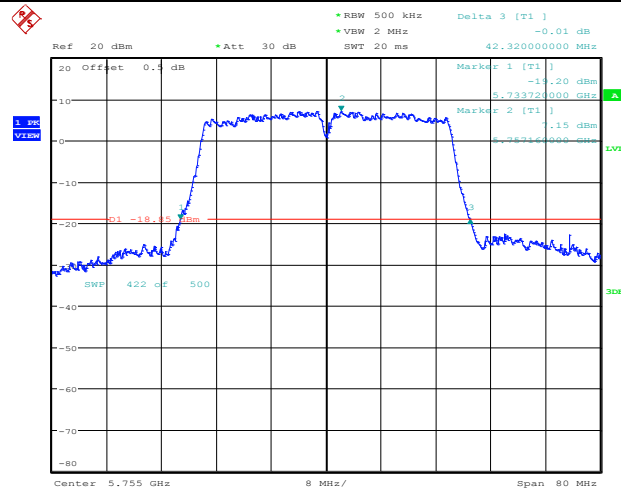


Date: 18.MAY.2021 15:54:17

11N40MIMO\_Ant1\_5755

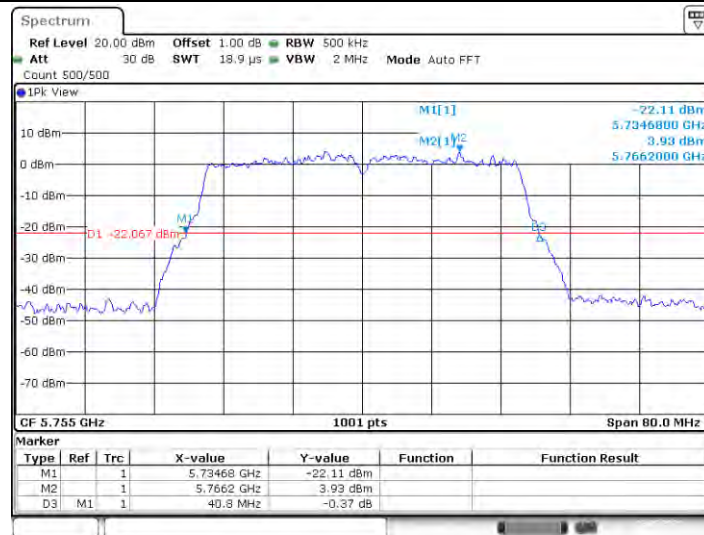


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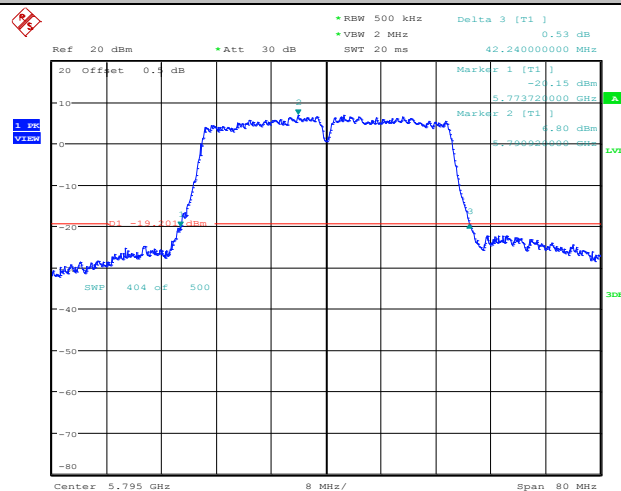
Date: 24.NOV.2020 14:03:49

### 11N40MIMO\_Ant2\_5755



Date: 12.MAY.2021 15:55:41

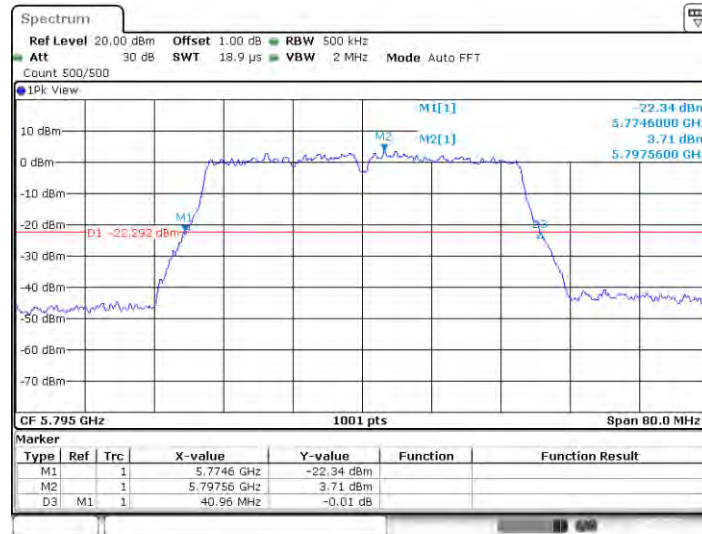
### 11N40MIMO\_Ant1\_5795



Date: 24.NOV.2020 14:07:41

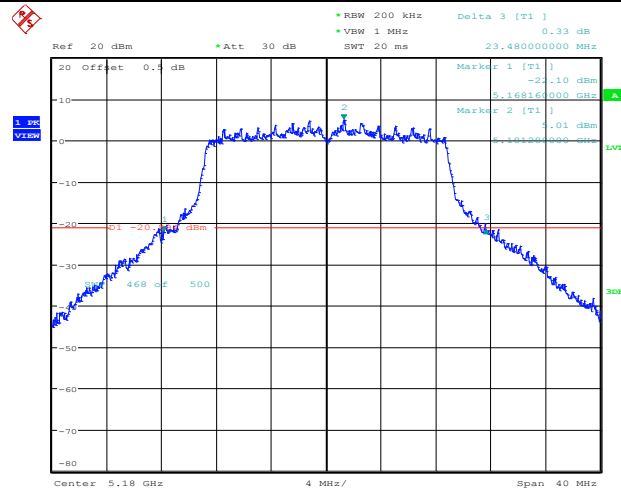


11N40MIMO\_Ant2\_5795



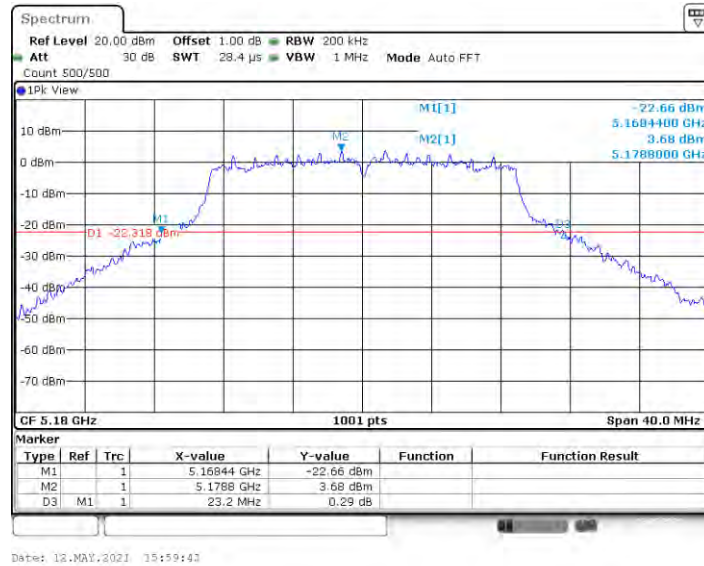
Date: 12.MAY.2021 15:57:33

11AC20MIMO\_Ant1\_5180

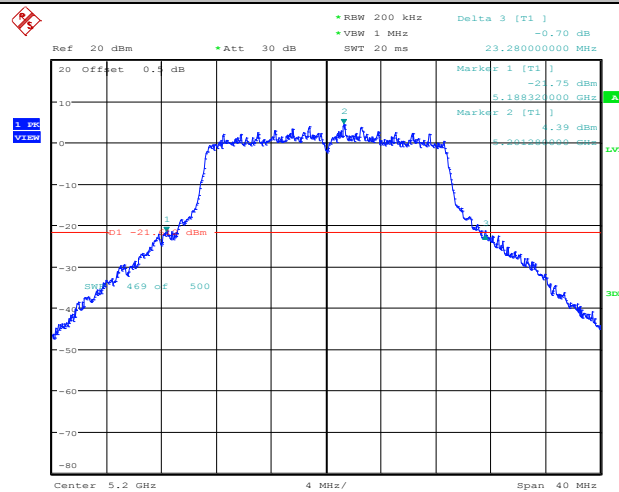


Date: 24.NOV.2020 14:11:06

11AC20MIMO\_Ant2\_5180

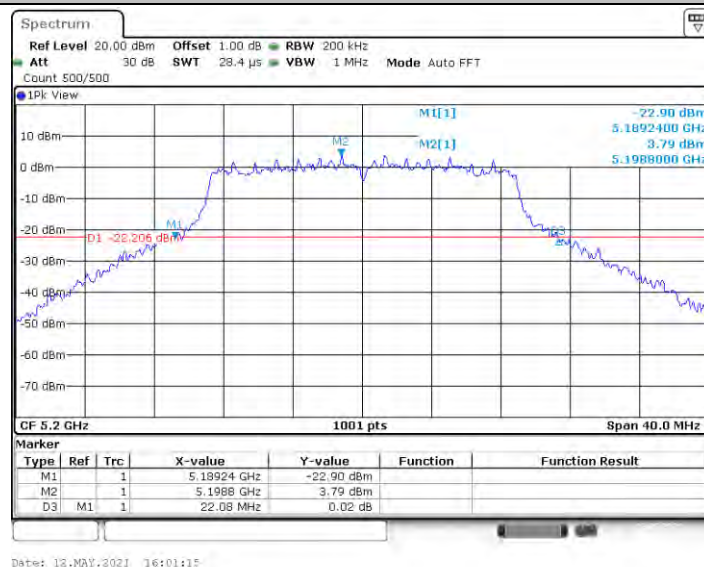


11AC20MIMO\_Ant1\_5200



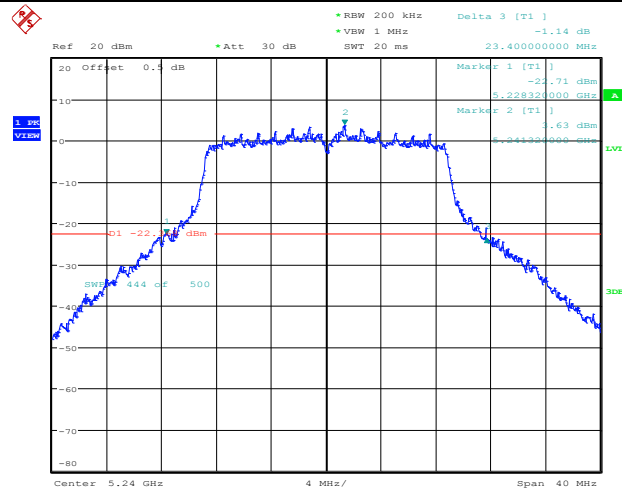
Date: 24.NOV.2020 14:14:47

11AC20MIMO\_Ant2\_5200



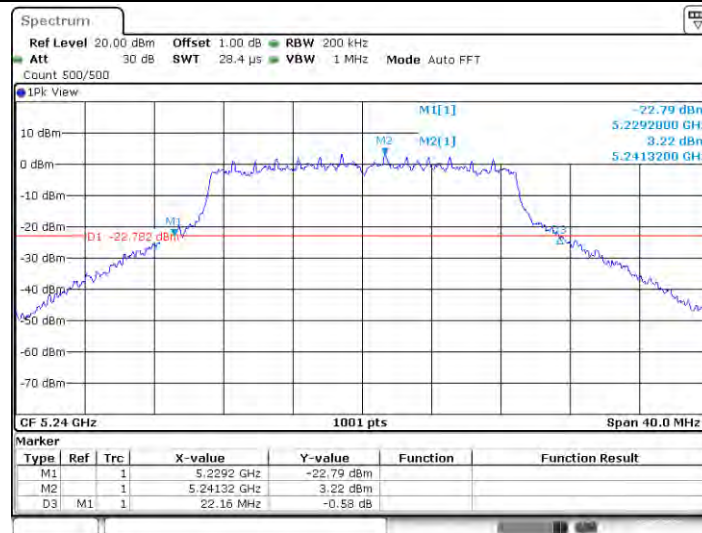


11AC20MIMO\_Ant1\_5240



Date: 24.NOV.2020 14:16:45

11AC20MIMO\_Ant2\_5240

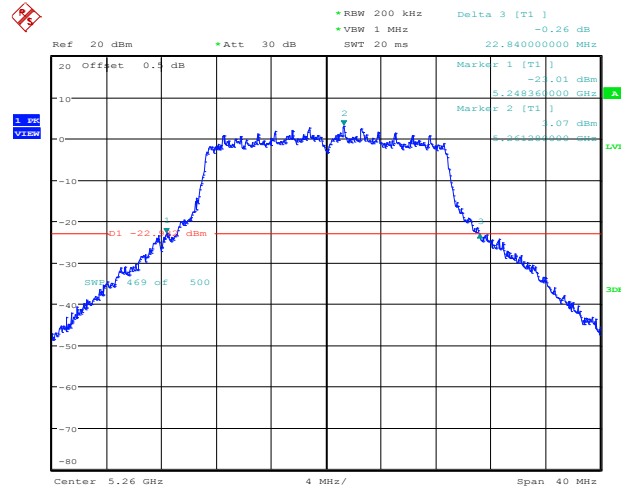


Date: 12.MAY.2021 16:03:01

11AC20MIMO\_Ant1\_5260

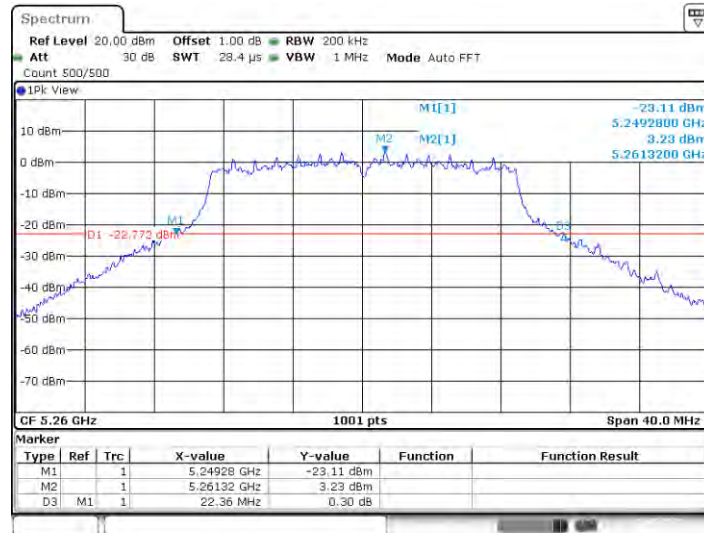


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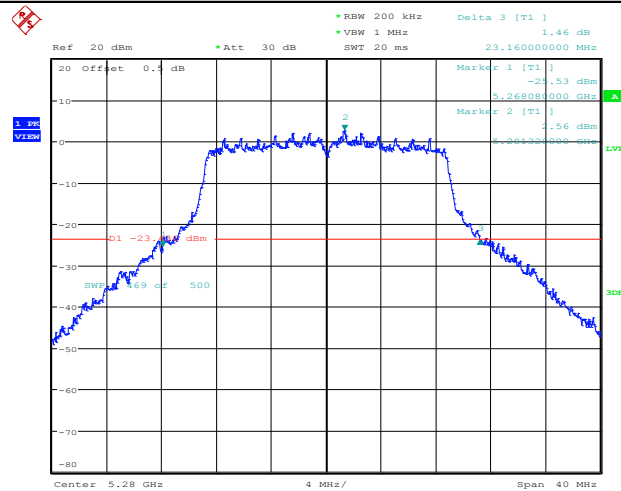
Date: 24.NOV.2020 14:18:39

### 11AC20MIMO\_Ant2\_5260



Date: 12.MAY.2021 16:04:39

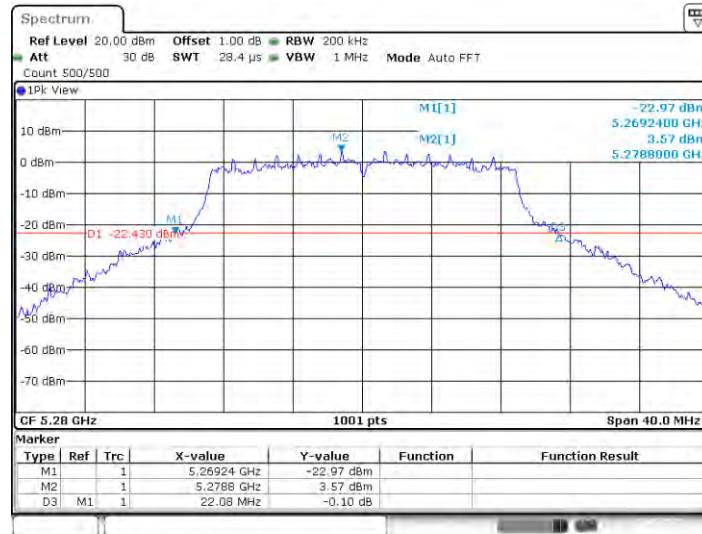
### 11AC20MIMO\_Ant1\_5280



Date: 24.NOV.2020 14:20:28

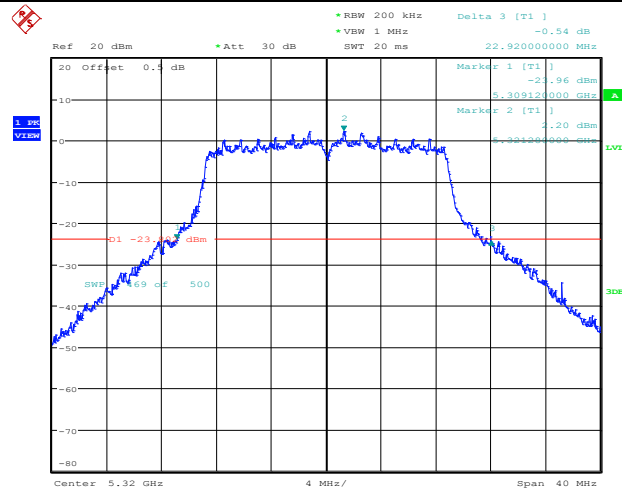


11AC20MIMO\_Ant2\_5280



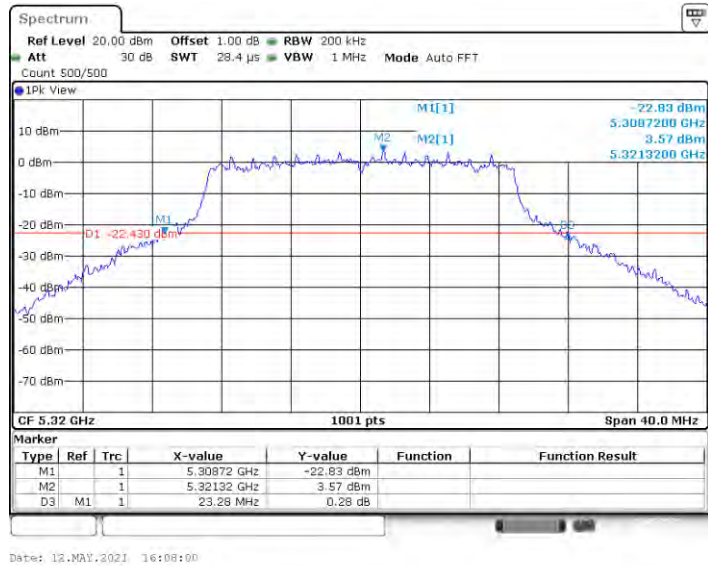
Date: 12.MAY.2021 16:06:15

11AC20MIMO\_Ant1\_5320

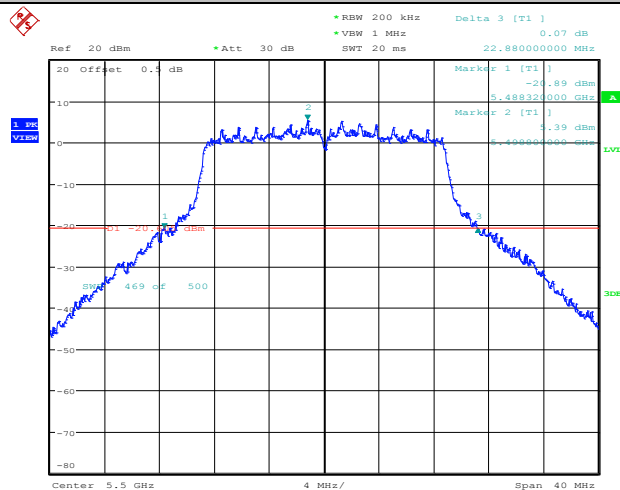


Date: 24.NOV.2020 14:22:29

11AC20MIMO\_Ant2\_5320

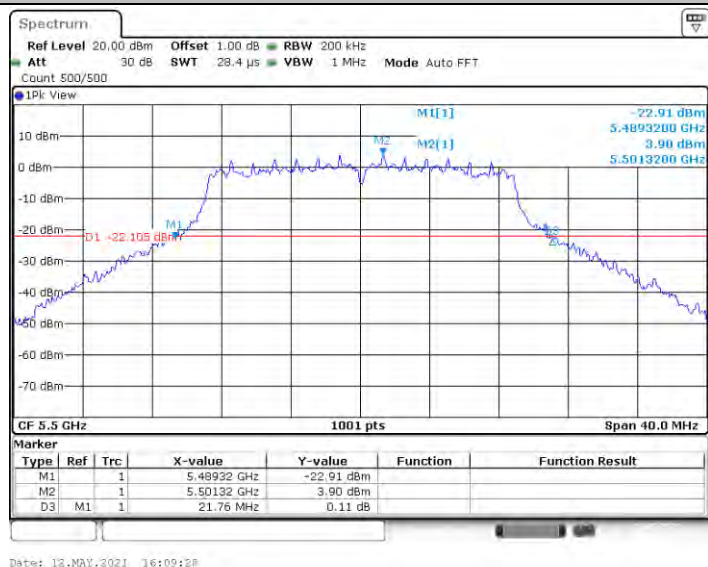


11AC20MIMO\_Ant1\_5500



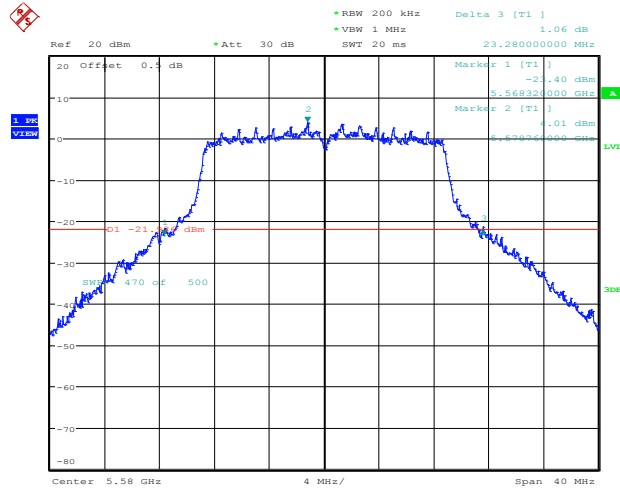
Date: 24.NOV.2020 14:28:15

11AC20MIMO\_Ant2\_5500



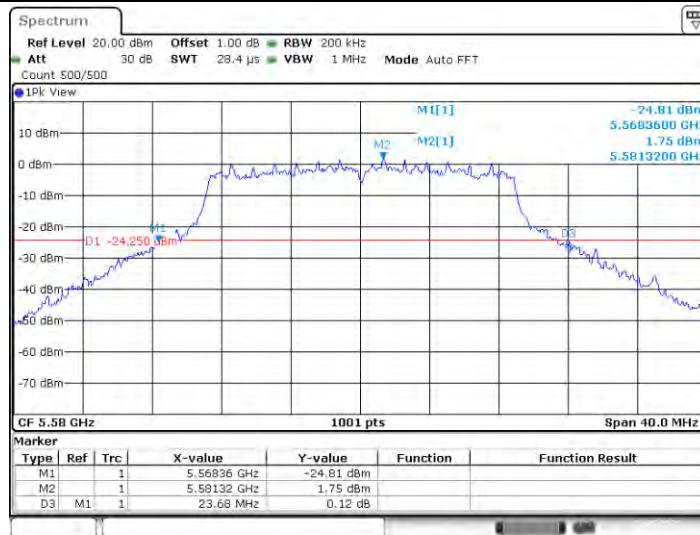


11AC20MIMO\_Ant1\_5580



Date: 24.NOV.2020 14:31:46

11AC20MIMO\_Ant2\_5580

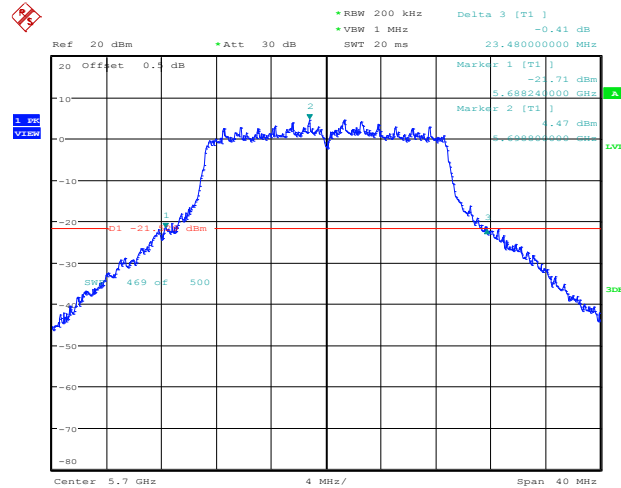


Date: 12.MAY.2021 16:10:57

11AC20MIMO\_Ant1\_5700

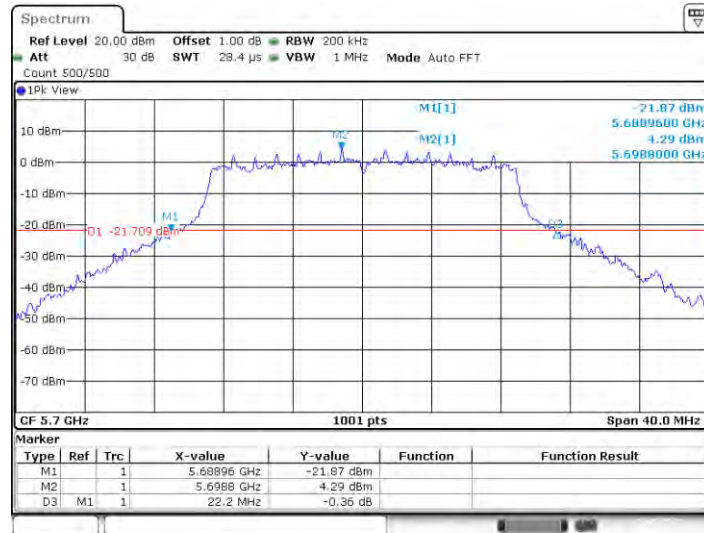


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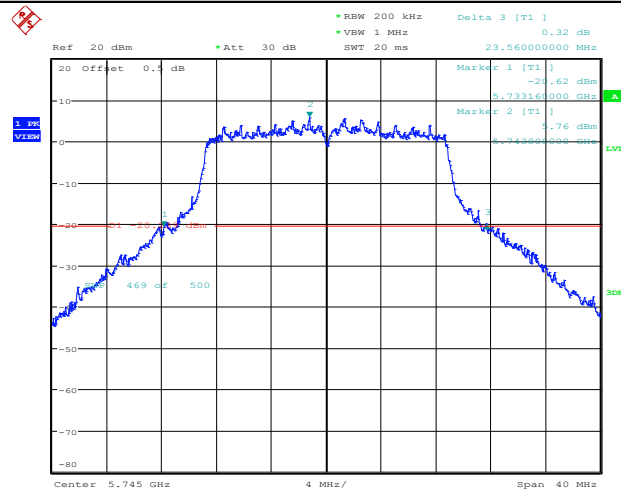
Date: 24.NOV.2020 14:33:38

### 11AC20MIMO\_Ant2\_5700



Date: 12.MAY.2021 16:17:39

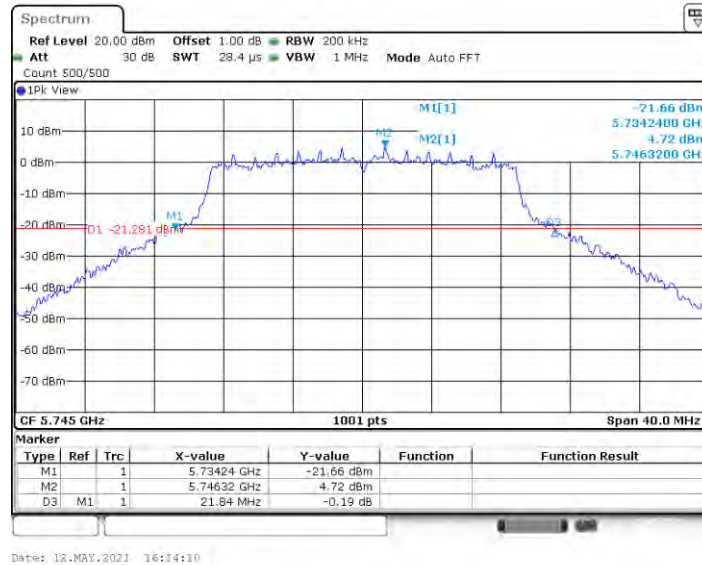
### 11AC20MIMO\_Ant1\_5745



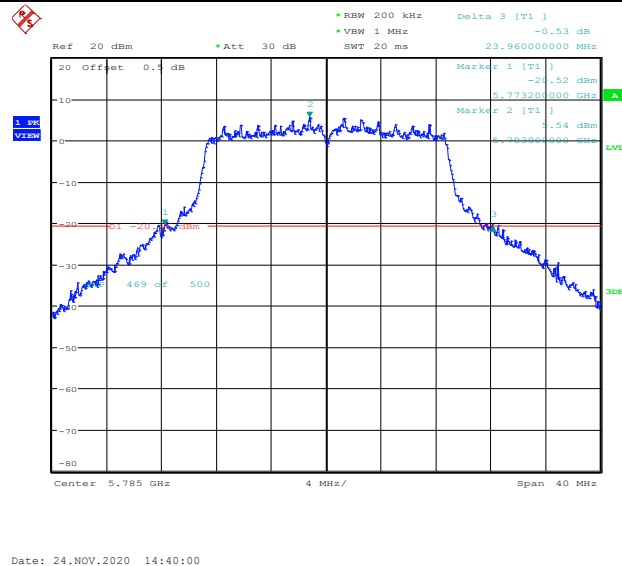
Date: 24.NOV.2020 14:36:35



11AC20MIMO\_Ant2\_5745



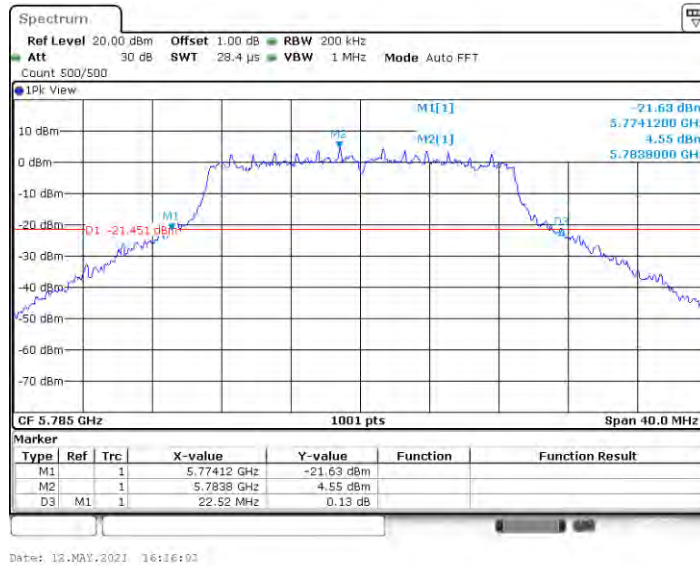
11AC20MIMO\_Ant1\_5785



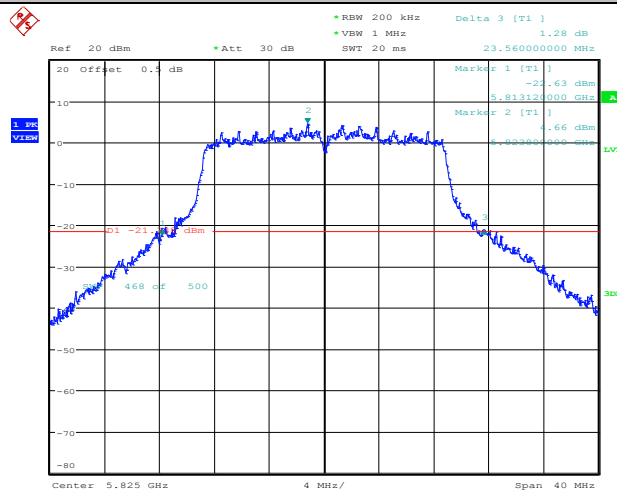
11AC20MIMO\_Ant2\_5785



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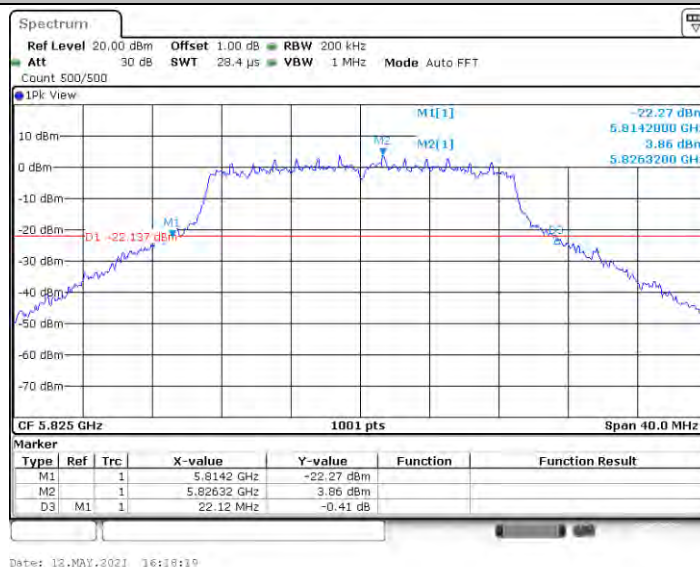


## 11AC20MIMO\_Ant1\_5825



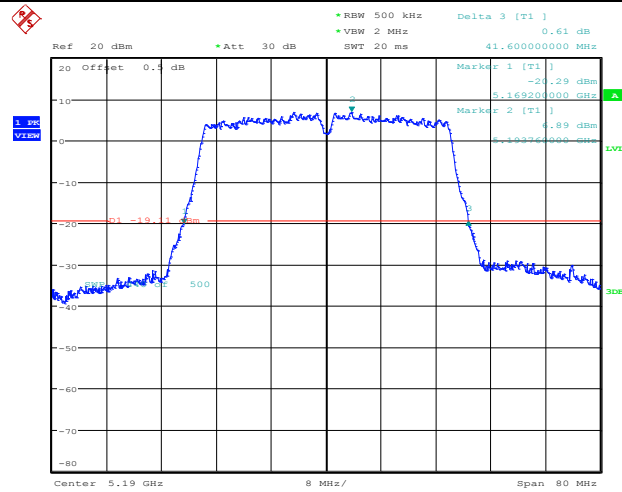
Date: 24.NOV.2020 14:43:12

## 11AC20MIMO\_Ant2\_5825





### 11AC40MIMO\_Ant1\_5190



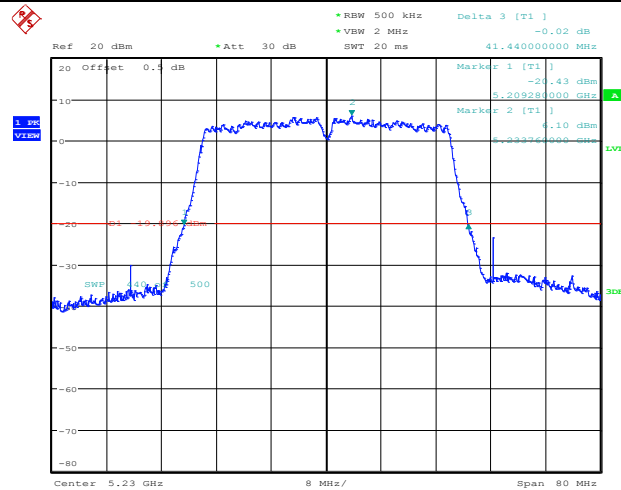
Date: 24.NOV.2020 14:46:46

### 11AC40MIMO\_Ant2\_5190



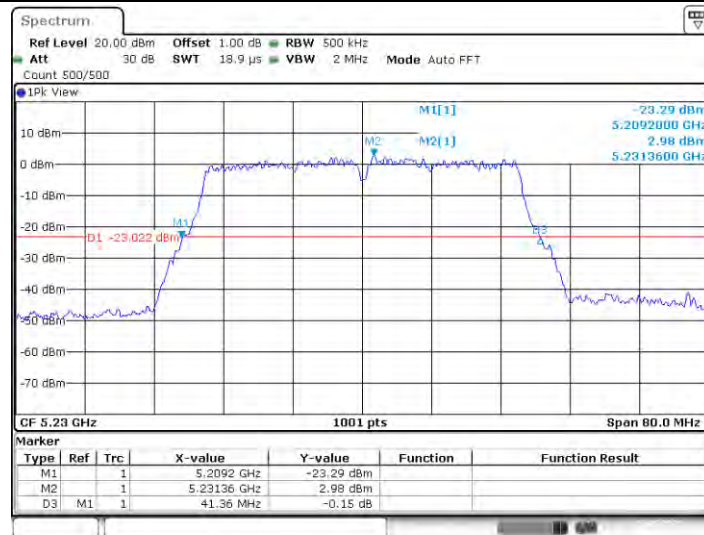
Date: 12.MAY.2021 16:20:10

### 11AC40MIMO\_Ant1\_5230



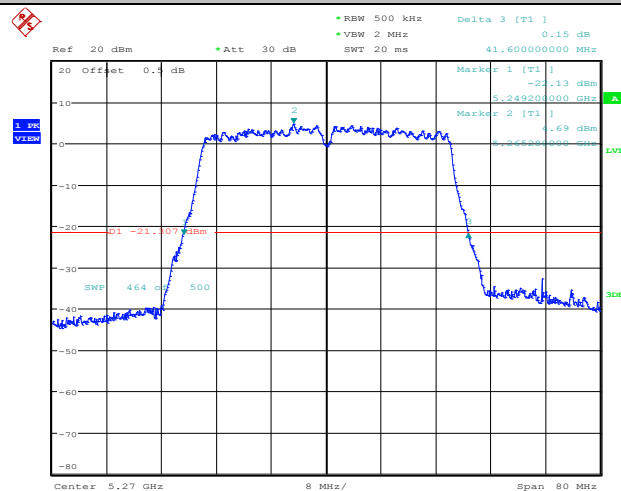
Date: 24.NOV.2020 14:50:32

### 11AC40MIMO\_Ant2\_5230



Date: 12.MAY.2021 16:21:49

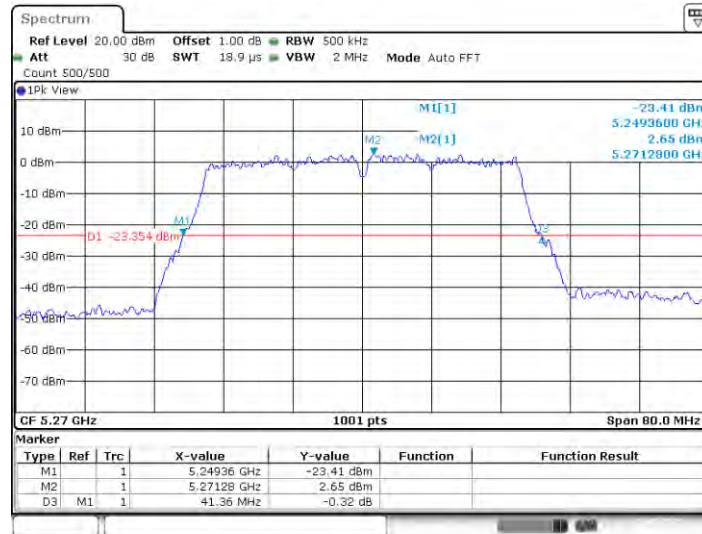
### 11AC40MIMO\_Ant1\_5270



Date: 24.NOV.2020 14:52:17

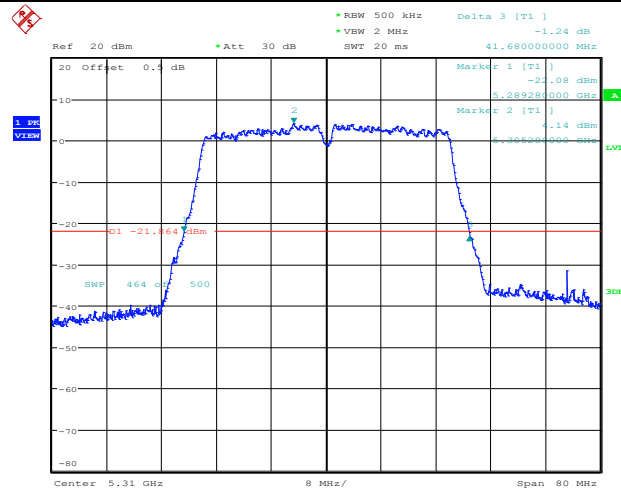


11AC40MIMO\_Ant2\_5270



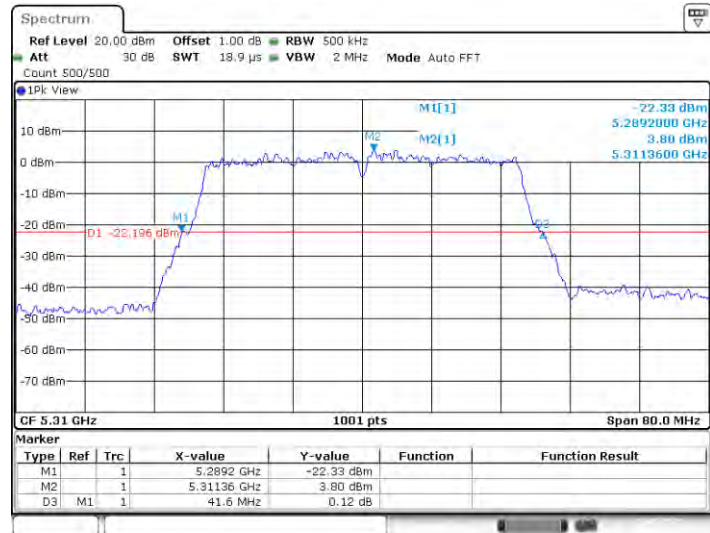
Date: 12.MAY.2021 16:23:06

11AC40MIMO\_Ant1\_5310



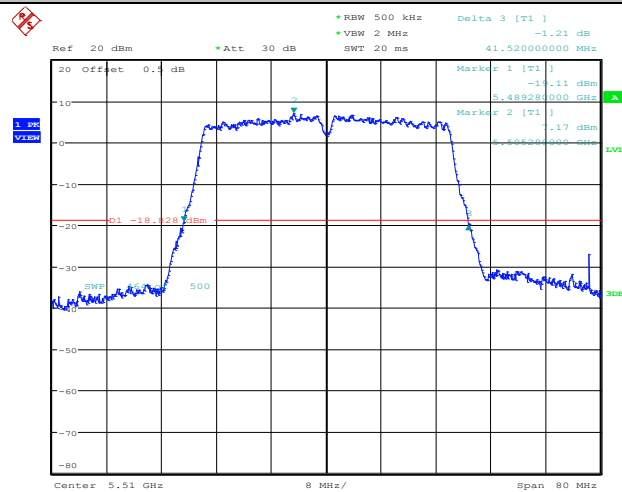
Date: 24.NOV.2020 14:54:01

11AC40MIMO\_Ant2\_5310



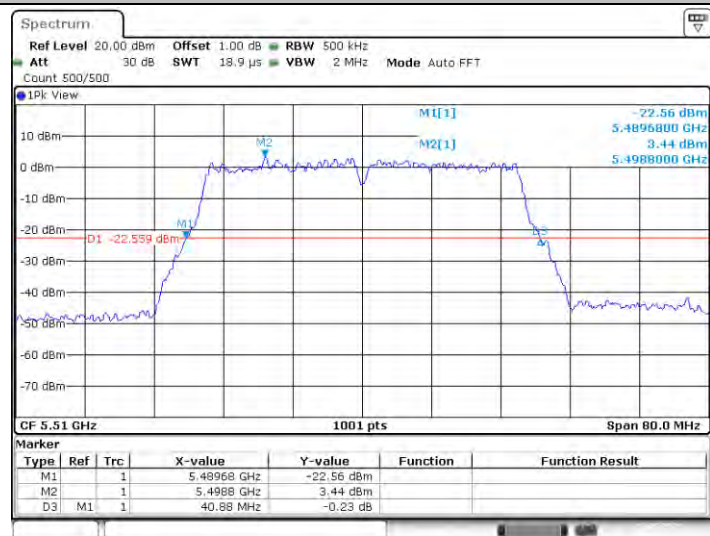
Date: 12.MAY.2021 16:24:45

### 11AC40MIMO\_Ant1\_5510



Date: 24.NOV.2020 14:56:59

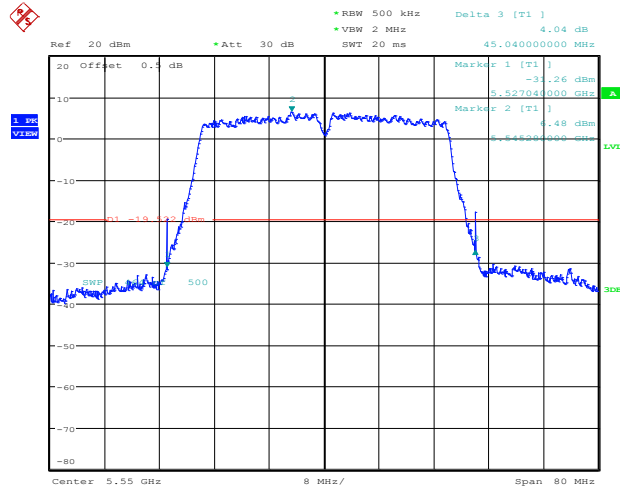
### 11AC40MIMO\_Ant2\_5510



Date: 12.MAY.2021 16:26:26

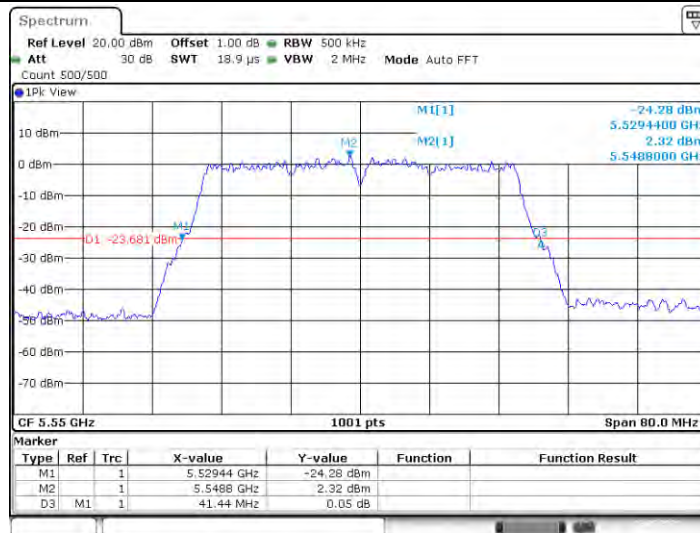


### 11AC40MIMO\_Ant1\_5550



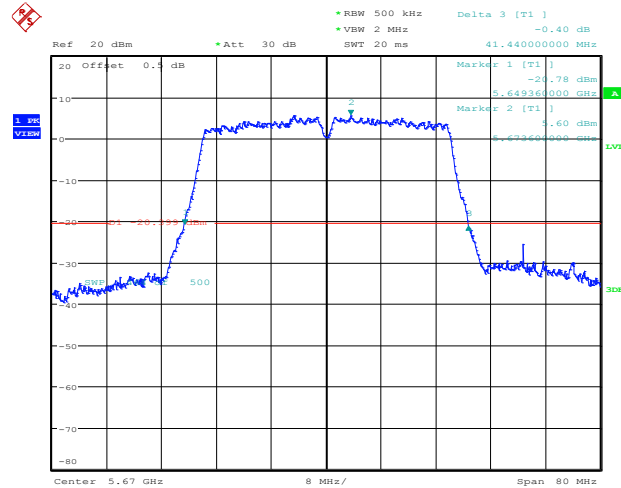
Date: 24.NOV.2020 15:00:00

### 11AC40MIMO\_Ant2\_5550



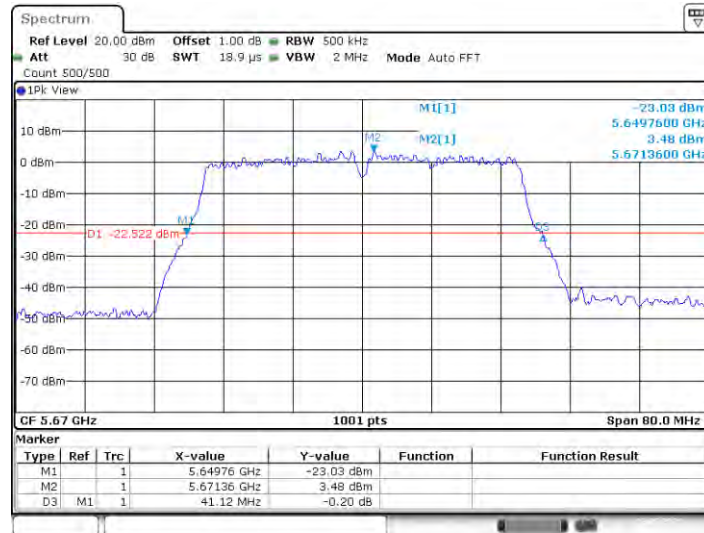
Date: 12.MAY.2021 16:27:54

### 11AC40MIMO\_Ant1\_5670



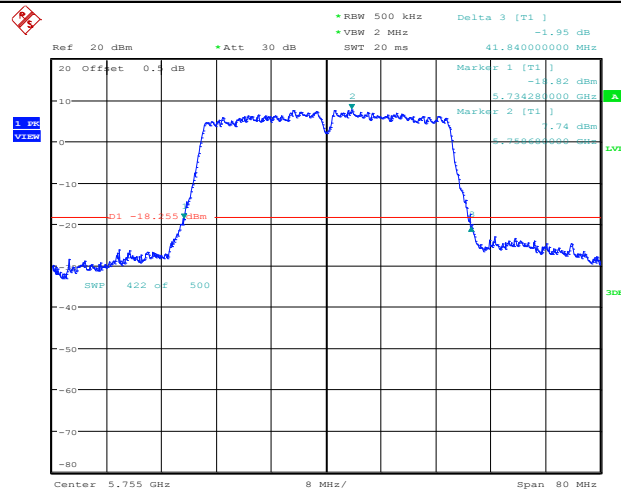
Date: 24.NOV.2020 15:01:46

### 11AC40MIMO\_Ant2\_5670



Date: 12.MAY.2021 16:29:40

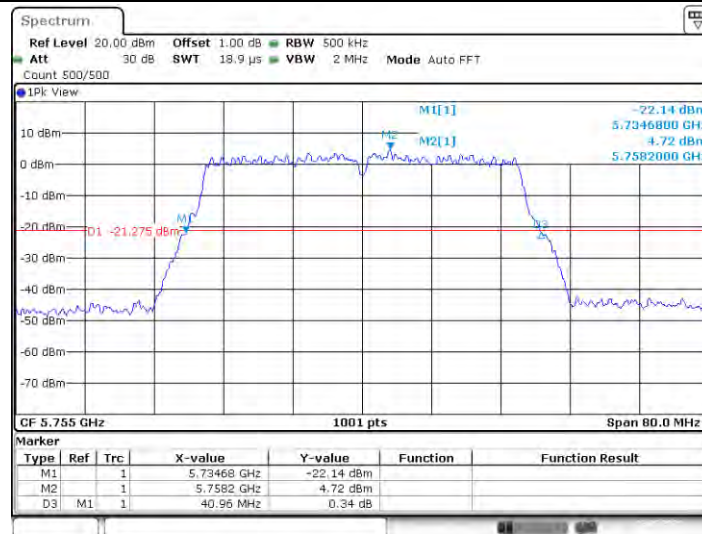
### 11AC40MIMO\_Ant1\_5755



Date: 24.NOV.2020 15:04:45

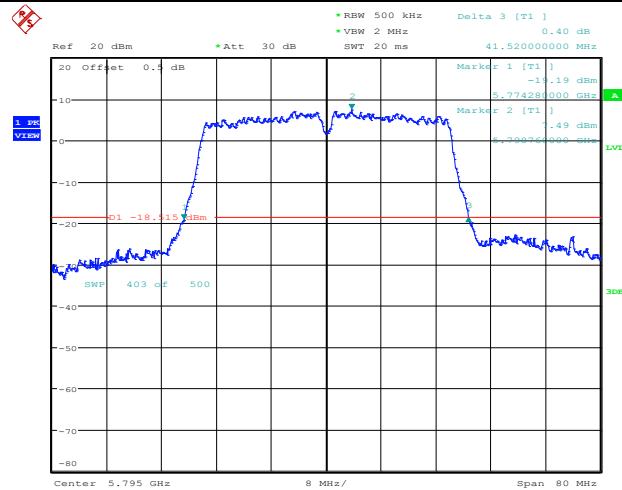


11AC40MIMO\_Ant2\_5755



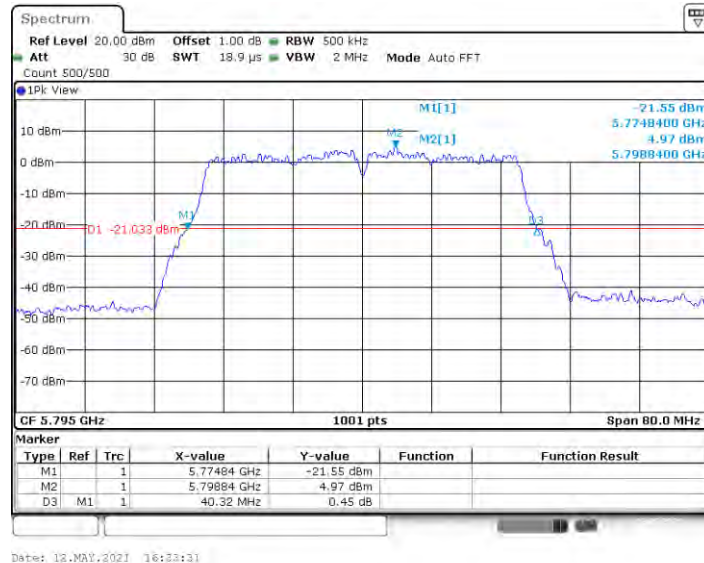
Date: 12.MAY.2021 16:31:17

11AC40MIMO\_Ant1\_5795

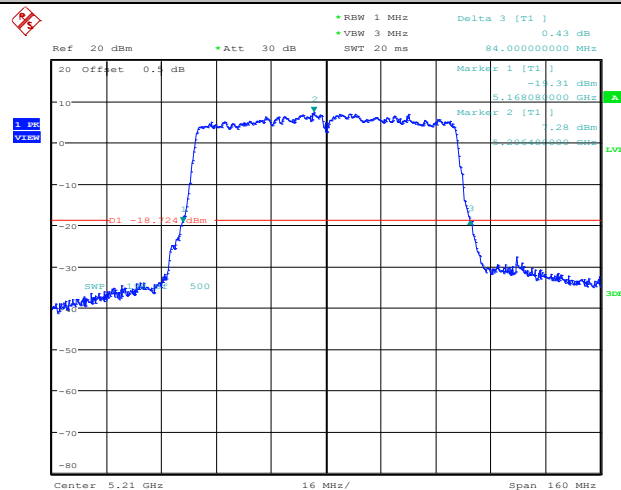


Date: 24.NOV.2020 15:08:08

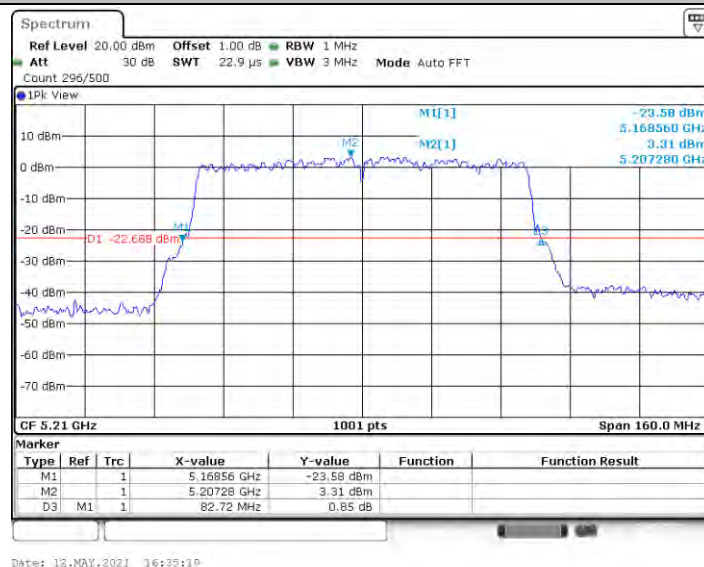
11AC40MIMO\_Ant2\_5795



### 11AC80MIMO\_Ant1\_5210

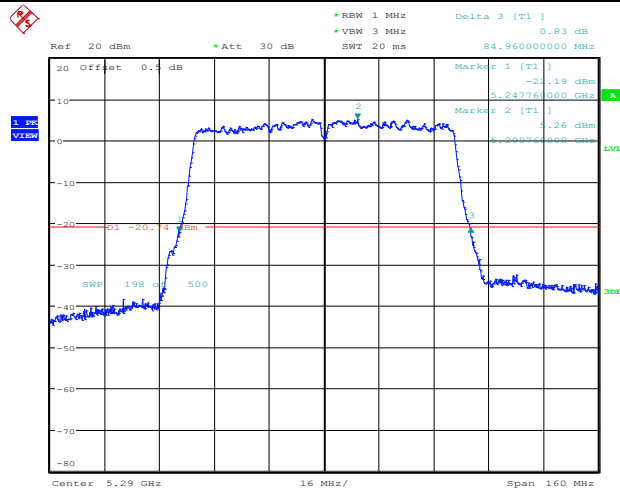


### 11AC80MIMO\_Ant2\_5210



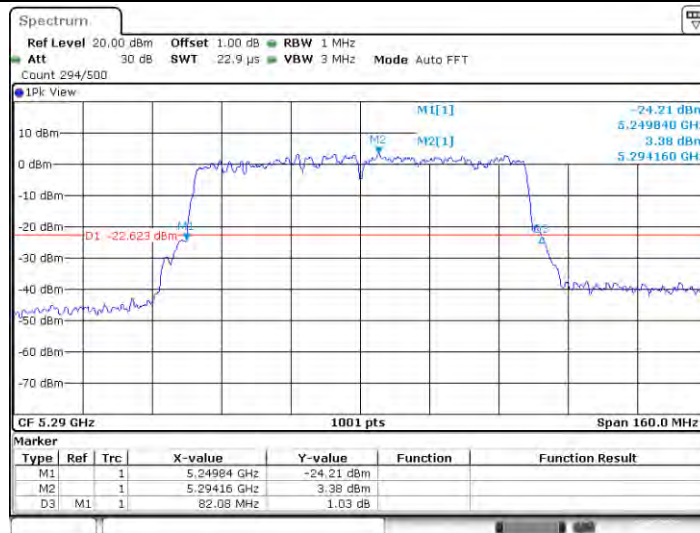


### 11AC80MIMO\_Ant1\_5290



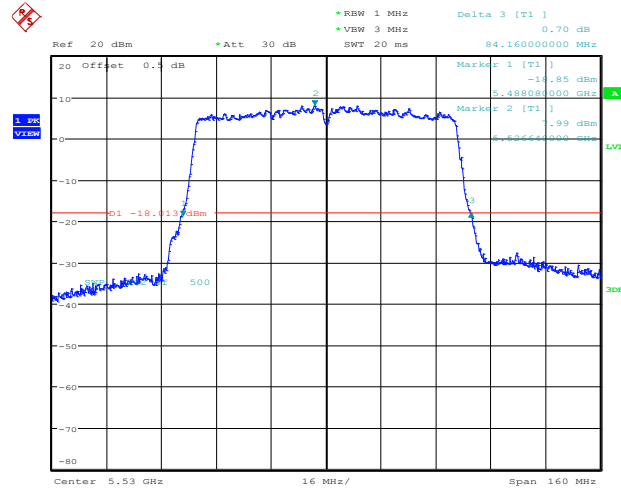
Date: 24.NOV.2020 15:15:26

### 11AC80MIMO\_Ant2\_5290



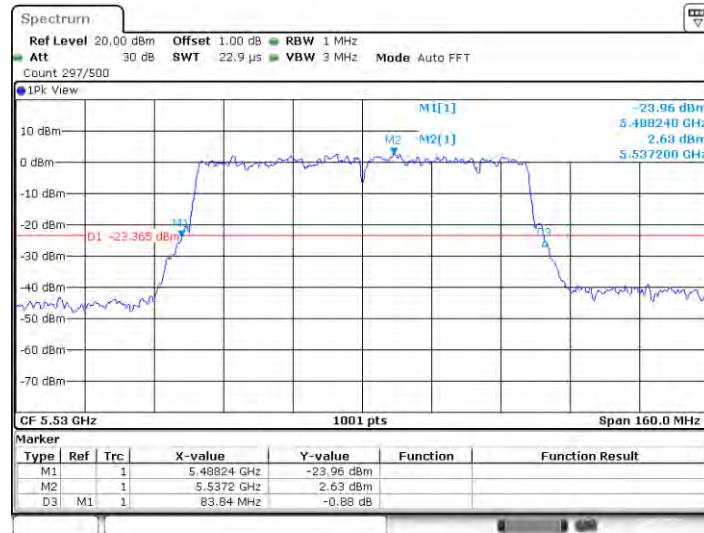
Date: 12.MAY.2021 16:36:46

### 11AC80MIMO\_Ant1\_5530



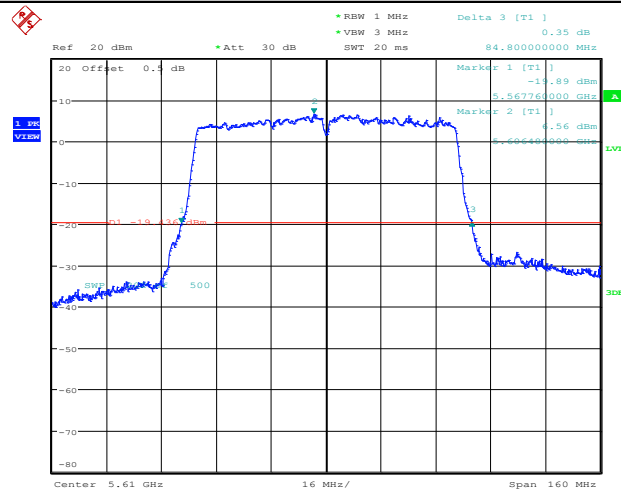
Date: 24.NOV.2020 15:18:26

### 11AC80MIMO\_Ant2\_5530



Date: 12.MAY.2021 16:38:17

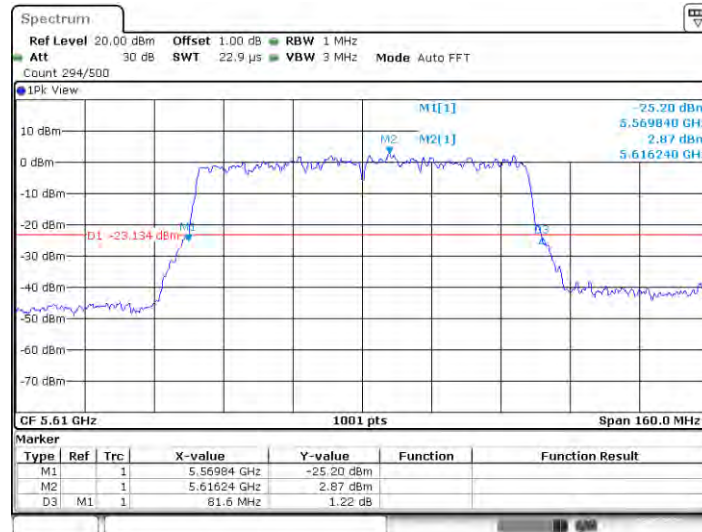
### 11AC80MIMO\_Ant1\_5610



Date: 24.NOV.2020 15:21:37

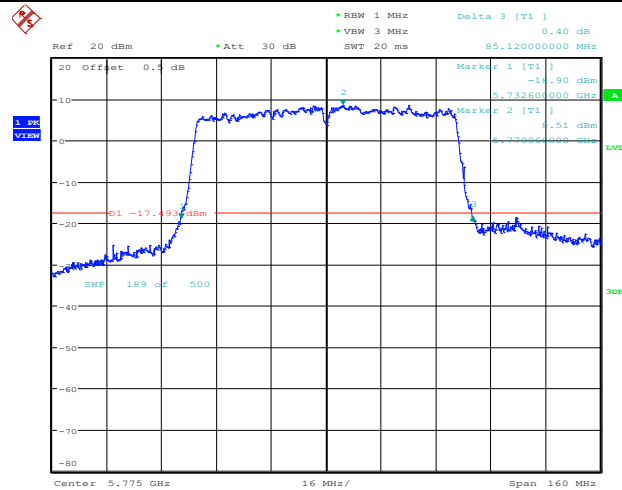


11AC80MIMO\_Ant2\_5610



Date: 12.MAY.2021 16:39:43

11AC80MIMO\_Ant1\_5775

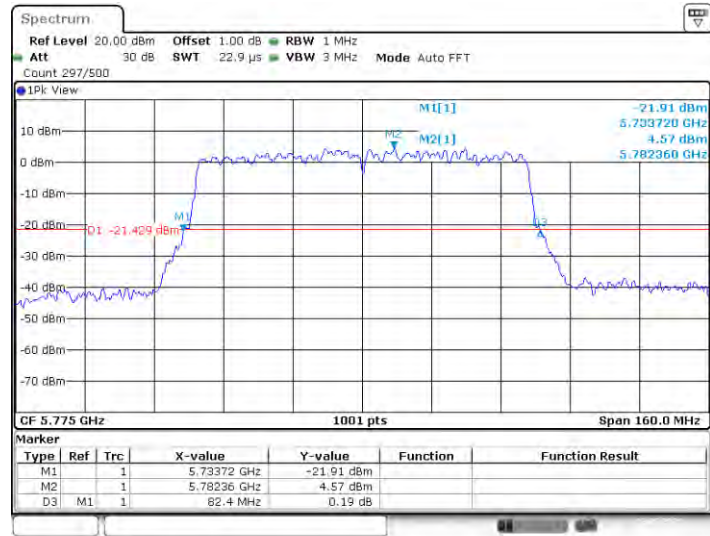


Date: 24.NOV.2020 15:24:38

11AC80MIMO\_Ant2\_5775



CTC Laboratories, Inc.



Date: 12.MAY.2021 16:41:26



## Appendix A2: Occupied Bandwidth

### Test Result

| Test Mode | Antenna | Frequency (MHz) | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|-----------------|-----------|----------|----------|------------|---------|
| 11A       | Ant1    | 5180            | 17.160    | 5171.480 | 5188.640 | ---        | PASS    |
|           | Ant2    | 5180            | 16.783    | 5171.688 | 5188.472 | ---        | PASS    |
|           | Ant1    | 5200            | 17.160    | 5191.440 | 5208.600 | ---        | PASS    |
|           | Ant2    | 5200            | 16.823    | 5191.728 | 5208.551 | ---        | PASS    |
|           | Ant1    | 5240            | 17.200    | 5231.400 | 5248.600 | ---        | PASS    |
|           | Ant2    | 5240            | 16.783    | 5231.728 | 5248.511 | ---        | PASS    |
|           | Ant1    | 5260            | 17.240    | 5251.400 | 5268.640 | ---        | PASS    |
|           | Ant2    | 5260            | 16.743    | 5251.768 | 5268.511 | ---        | PASS    |
|           | Ant1    | 5280            | 17.160    | 5271.440 | 5288.600 | ---        | PASS    |
|           | Ant2    | 5280            | 16.783    | 5271.688 | 5288.472 | ---        | PASS    |
|           | Ant1    | 5320            | 17.200    | 5311.440 | 5328.640 | ---        | PASS    |
|           | Ant2    | 5320            | 16.783    | 5311.688 | 5328.472 | ---        | PASS    |
|           | Ant1    | 5500            | 17.200    | 5491.440 | 5508.640 | ---        | PASS    |
|           | Ant2    | 5500            | 16.863    | 5491.608 | 5508.472 | ---        | PASS    |
|           | Ant1    | 5580            | 17.200    | 5571.400 | 5588.600 | ---        | PASS    |
|           | Ant2    | 5580            | 16.823    | 5571.688 | 5588.511 | ---        | PASS    |
|           | Ant1    | 5700            | 17.280    | 5691.400 | 5708.680 | ---        | PASS    |
|           | Ant2    | 5700            | 16.903    | 5691.608 | 5708.511 | ---        | PASS    |
|           | Ant1    | 5745            | 17.240    | 5736.400 | 5753.640 | ---        | PASS    |
|           | Ant2    | 5745            | 16.863    | 5736.608 | 5753.472 | ---        | PASS    |
|           | Ant1    | 5785            | 17.320    | 5776.400 | 5793.720 | ---        | PASS    |
|           | Ant2    | 5785            | 16.943    | 5776.528 | 5793.472 | ---        | PASS    |
|           | Ant1    | 5825            | 17.280    | 5816.400 | 5833.680 | ---        | PASS    |
|           | Ant2    | 5825            | 16.703    | 5816.728 | 5833.432 | ---        | PASS    |
| 11N20MIMO | Ant1    | 5180            | 18.320    | 5170.960 | 5189.280 | ---        | PASS    |
|           | Ant2    | 5180            | 18.182    | 5171.009 | 5189.191 | ---        | PASS    |
|           | Ant1    | 5200            | 18.360    | 5190.920 | 5209.280 | ---        | PASS    |
|           | Ant2    | 5200            | 18.142    | 5191.009 | 5209.151 | ---        | PASS    |
|           | Ant1    | 5240            | 18.360    | 5230.920 | 5249.280 | ---        | PASS    |
|           | Ant2    | 5240            | 18.102    | 5231.009 | 5249.111 | ---        | PASS    |
|           | Ant1    | 5260            | 18.400    | 5250.880 | 5269.280 | ---        | PASS    |
|           | Ant2    | 5260            | 18.062    | 5251.089 | 5269.151 | ---        | PASS    |
|           | Ant1    | 5280            | 18.400    | 5270.880 | 5289.280 | ---        | PASS    |
|           | Ant2    | 5280            | 18.062    | 5271.089 | 5289.151 | ---        | PASS    |
|           | Ant1    | 5320            | 18.400    | 5310.920 | 5329.320 | ---        | PASS    |
|           | Ant2    | 5320            | 18.182    | 5311.009 | 5329.191 | ---        | PASS    |



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|            |      |      |        |          |          |     |      |
|------------|------|------|--------|----------|----------|-----|------|
|            | Ant1 | 5500 | 18.280 | 5490.960 | 5509.240 | --- | PASS |
|            | Ant2 | 5500 | 18.142 | 5491.009 | 5509.151 | --- | PASS |
|            | Ant1 | 5580 | 18.280 | 5570.920 | 5589.200 | --- | PASS |
|            | Ant2 | 5580 | 17.982 | 5571.049 | 5589.031 | --- | PASS |
|            | Ant1 | 5700 | 18.240 | 5691.000 | 5709.240 | --- | PASS |
|            | Ant2 | 5700 | 18.142 | 5691.049 | 5709.191 | --- | PASS |
|            | Ant1 | 5745 | 18.240 | 5736.000 | 5754.240 | --- | PASS |
|            | Ant2 | 5745 | 18.142 | 5736.049 | 5754.191 | --- | PASS |
|            | Ant1 | 5785 | 18.400 | 5775.920 | 5794.320 | --- | PASS |
|            | Ant2 | 5785 | 18.182 | 5775.969 | 5794.151 | --- | PASS |
|            | Ant1 | 5825 | 18.360 | 5815.920 | 5834.280 | --- | PASS |
|            | Ant2 | 5825 | 18.062 | 5816.049 | 5834.111 | --- | PASS |
| 11N40MIMO  | Ant1 | 5190 | 36.720 | 5171.760 | 5208.480 | --- | PASS |
|            | Ant2 | 5190 | 36.523 | 5171.858 | 5208.382 | --- | PASS |
|            | Ant1 | 5230 | 36.720 | 5211.760 | 5248.480 | --- | PASS |
|            | Ant2 | 5230 | 36.364 | 5211.938 | 5248.302 | --- | PASS |
|            | Ant1 | 5270 | 36.720 | 5251.760 | 5288.480 | --- | PASS |
|            | Ant2 | 5270 | 36.444 | 5251.858 | 5288.302 | --- | PASS |
|            | Ant1 | 5310 | 36.800 | 5291.760 | 5328.560 | --- | PASS |
|            | Ant2 | 5310 | 36.284 | 5291.938 | 5328.222 | --- | PASS |
|            | Ant1 | 5510 | 36.720 | 5491.760 | 5528.480 | --- | PASS |
|            | Ant2 | 5510 | 36.364 | 5491.858 | 5528.222 | --- | PASS |
|            | Ant1 | 5550 | 36.720 | 5531.760 | 5568.480 | --- | PASS |
|            | Ant2 | 5550 | 36.444 | 5531.858 | 5568.302 | --- | PASS |
|            | Ant1 | 5670 | 36.720 | 5651.840 | 5688.560 | --- | PASS |
|            | Ant2 | 5670 | 36.444 | 5651.938 | 5688.382 | --- | PASS |
|            | Ant1 | 5755 | 36.800 | 5736.760 | 5773.560 | --- | PASS |
|            | Ant2 | 5755 | 36.523 | 5736.858 | 5773.382 | --- | PASS |
|            | Ant1 | 5795 | 36.720 | 5776.840 | 5813.560 | --- | PASS |
|            | Ant2 | 5795 | 36.523 | 5776.778 | 5813.302 | --- | PASS |
| 11AC20MIMO | Ant1 | 5180 | 18.360 | 5170.880 | 5189.240 | --- | PASS |
|            | Ant2 | 5180 | 18.062 | 5170.969 | 5189.031 | --- | PASS |
|            | Ant1 | 5200 | 18.360 | 5190.880 | 5209.240 | --- | PASS |
|            | Ant2 | 5200 | 17.982 | 5191.089 | 5209.071 | --- | PASS |
|            | Ant1 | 5240 | 18.360 | 5230.880 | 5249.240 | --- | PASS |
|            | Ant2 | 5240 | 17.862 | 5231.129 | 5248.991 | --- | PASS |
|            | Ant1 | 5260 | 18.360 | 5250.880 | 5269.240 | --- | PASS |
|            | Ant2 | 5260 | 18.022 | 5251.089 | 5269.111 | --- | PASS |
|            | Ant1 | 5280 | 18.360 | 5270.880 | 5289.240 | --- | PASS |
|            | Ant2 | 5280 | 18.062 | 5271.089 | 5289.151 | --- | PASS |
|            | Ant1 | 5320 | 18.400 | 5310.880 | 5329.280 | --- | PASS |
|            | Ant2 | 5320 | 18.022 | 5311.089 | 5329.111 | --- | PASS |
|            | Ant1 | 5500 | 18.320 | 5490.920 | 5509.240 | --- | PASS |
|            |      |      |        |          |          |     |      |

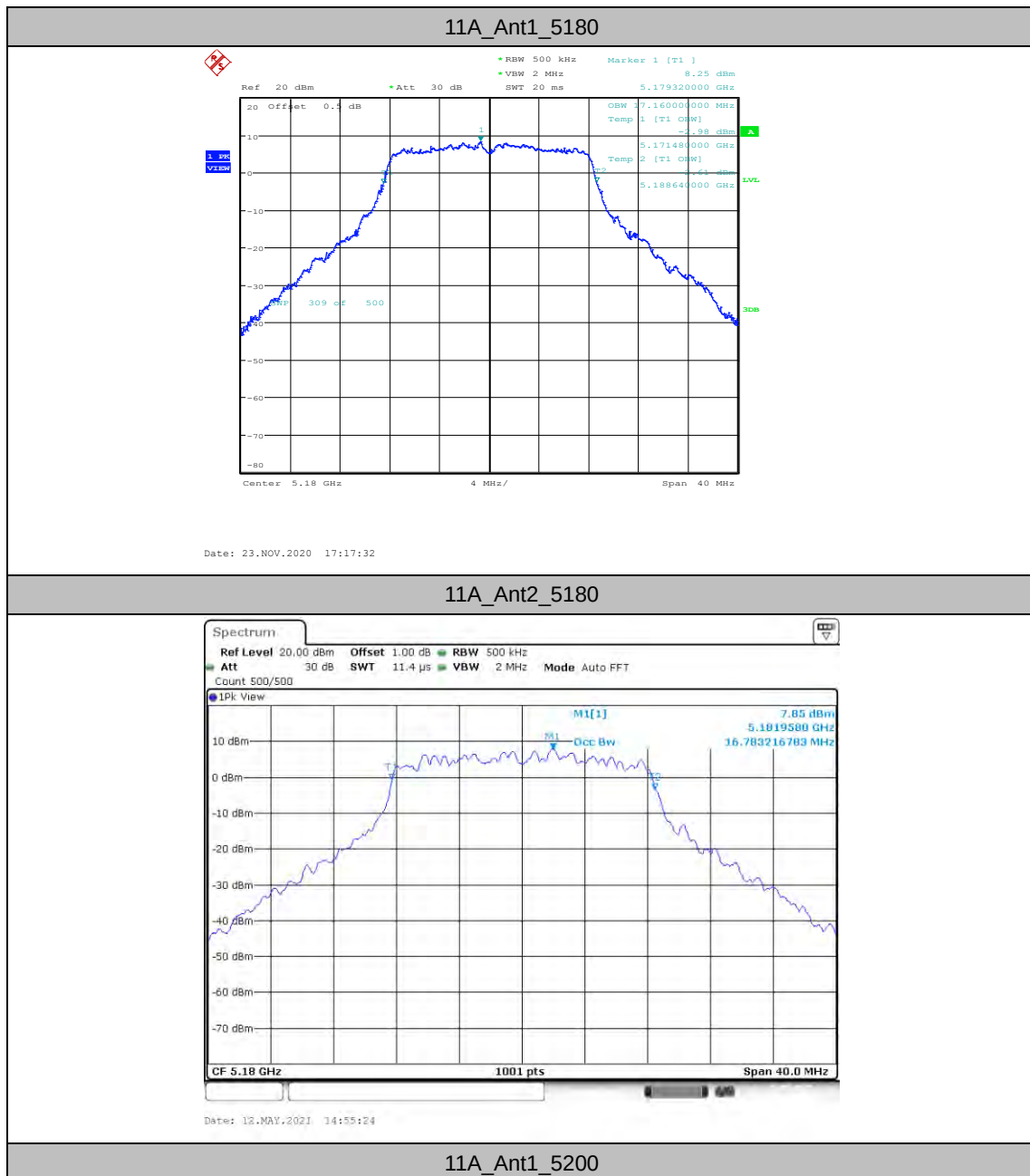


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|            |      |      |        |          |          |     |      |
|------------|------|------|--------|----------|----------|-----|------|
|            | Ant2 | 5500 | 17.982 | 5491.049 | 5509.031 | --- | PASS |
|            | Ant1 | 5580 | 18.360 | 5570.880 | 5589.240 | --- | PASS |
|            | Ant2 | 5580 | 18.022 | 5571.089 | 5589.111 | --- | PASS |
|            | Ant1 | 5700 | 18.360 | 5690.920 | 5709.280 | --- | PASS |
|            | Ant2 | 5700 | 18.022 | 5691.049 | 5709.071 | --- | PASS |
|            | Ant1 | 5745 | 18.400 | 5735.880 | 5754.280 | --- | PASS |
|            | Ant2 | 5745 | 17.982 | 5736.089 | 5754.071 | --- | PASS |
|            | Ant1 | 5785 | 18.360 | 5775.920 | 5794.280 | --- | PASS |
|            | Ant2 | 5785 | 18.062 | 5776.049 | 5794.111 | --- | PASS |
|            | Ant1 | 5825 | 18.360 | 5815.920 | 5834.280 | --- | PASS |
|            | Ant2 | 5825 | 18.022 | 5816.049 | 5834.071 | --- | PASS |
| 11AC40MIMO | Ant1 | 5190 | 36.640 | 5171.760 | 5208.400 | --- | PASS |
|            | Ant2 | 5190 | 36.284 | 5171.938 | 5208.222 | --- | PASS |
|            | Ant1 | 5230 | 36.640 | 5211.760 | 5248.400 | --- | PASS |
|            | Ant2 | 5230 | 36.364 | 5211.858 | 5248.222 | --- | PASS |
|            | Ant1 | 5270 | 36.640 | 5251.760 | 5288.400 | --- | PASS |
|            | Ant2 | 5270 | 36.603 | 5251.938 | 5288.541 | --- | PASS |
|            | Ant1 | 5310 | 36.720 | 5291.760 | 5328.480 | --- | PASS |
|            | Ant2 | 5310 | 36.523 | 5291.858 | 5328.382 | --- | PASS |
|            | Ant1 | 5510 | 36.640 | 5491.760 | 5528.400 | --- | PASS |
|            | Ant2 | 5510 | 36.523 | 5491.698 | 5528.222 | --- | PASS |
|            | Ant1 | 5550 | 36.720 | 5531.680 | 5568.400 | --- | PASS |
|            | Ant2 | 5550 | 36.364 | 5531.938 | 5568.302 | --- | PASS |
|            | Ant1 | 5670 | 36.720 | 5651.760 | 5688.480 | --- | PASS |
|            | Ant2 | 5670 | 36.364 | 5651.938 | 5688.302 | --- | PASS |
|            | Ant1 | 5755 | 36.720 | 5736.760 | 5773.480 | --- | PASS |
|            | Ant2 | 5755 | 36.444 | 5736.778 | 5773.222 | --- | PASS |
|            | Ant1 | 5795 | 36.720 | 5776.760 | 5813.480 | --- | PASS |
|            | Ant2 | 5795 | 36.364 | 5776.938 | 5813.302 | --- | PASS |
| 11AC80MIMO | Ant1 | 5210 | 76.160 | 5171.920 | 5248.080 | --- | PASS |
|            | Ant2 | 5210 | 76.084 | 5172.118 | 5248.202 | --- | PASS |
|            | Ant1 | 5290 | 76.320 | 5251.920 | 5328.240 | --- | PASS |
|            | Ant2 | 5290 | 76.244 | 5251.958 | 5328.202 | --- | PASS |
|            | Ant1 | 5530 | 76.320 | 5491.920 | 5568.240 | --- | PASS |
|            | Ant2 | 5530 | 76.244 | 5492.118 | 5568.362 | --- | PASS |
|            | Ant1 | 5610 | 76.320 | 5571.920 | 5648.240 | --- | PASS |
|            | Ant2 | 5610 | 76.244 | 5572.118 | 5648.362 | --- | PASS |
|            | Ant1 | 5775 | 76.480 | 5736.920 | 5813.400 | --- | PASS |
|            | Ant2 | 5775 | 75.764 | 5737.278 | 5813.042 | --- | PASS |

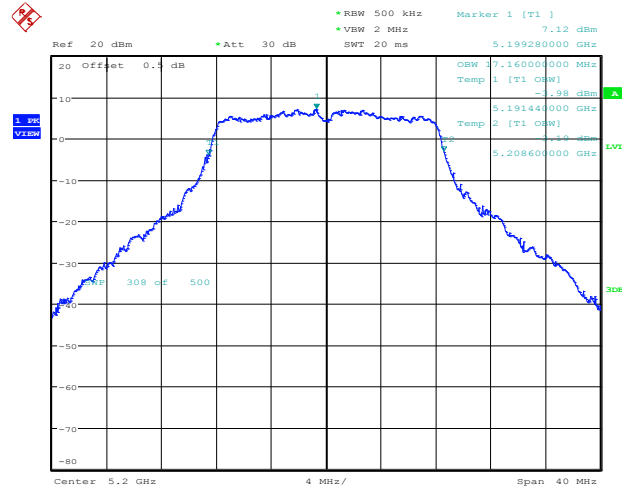


## Test Graphs





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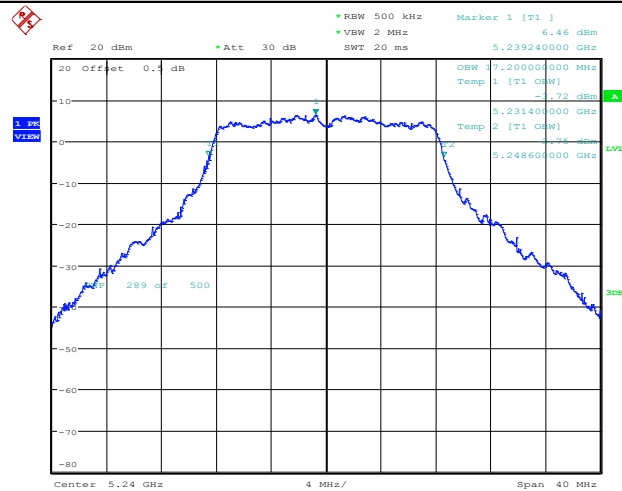
Date: 23.NOV.2020 17:23:43

### 11A\_Ant2\_5200



Date: 12.MAY.2021 14:56:53

### 11A\_Ant1\_5240



Date: 23.NOV.2020 17:25:55

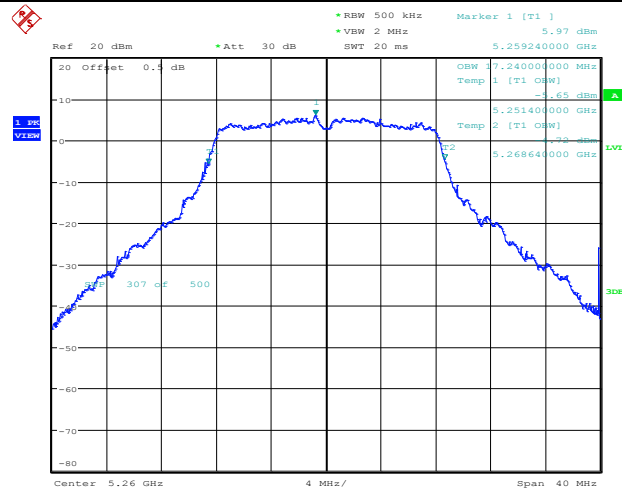


11A\_Ant2\_5240



Date: 12.MAY.2021 14:58:26

11A\_Ant1\_5260

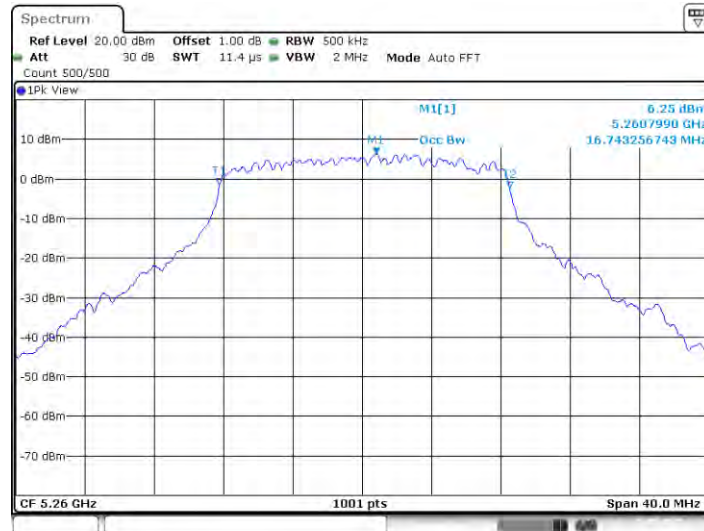


Date: 23.NOV.2020 17:27:58

11A\_Ant2\_5260

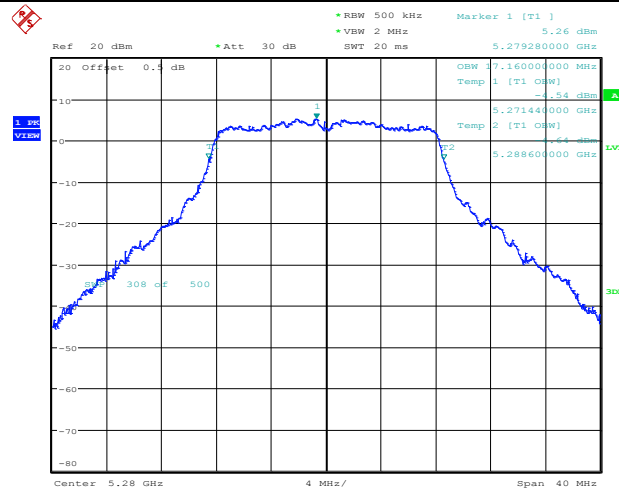


CTC Laboratories, Inc.



Date: 12.MAY.2021 14:59:54

11A\_Ant1\_5280



Date: 23.NOV.2020 17:30:24

11A\_Ant2\_5280

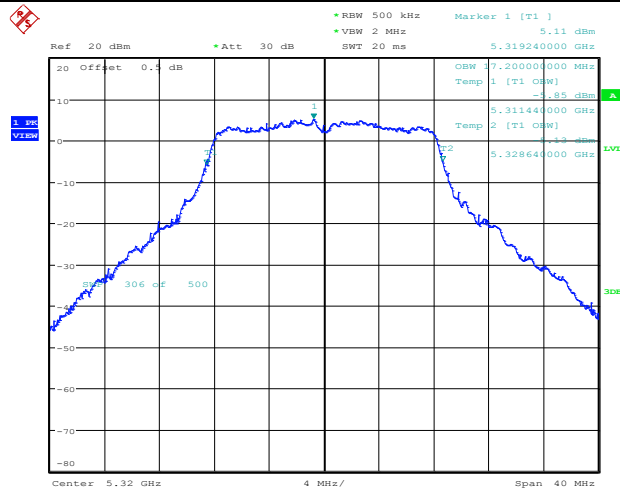


Date: 12.MAY.2021 15:01:29



CTC Laboratories, Inc.

### 11A\_Ant1\_5320



Date: 23.NOV.2020 17:32:18

### 11A\_Ant2\_5320

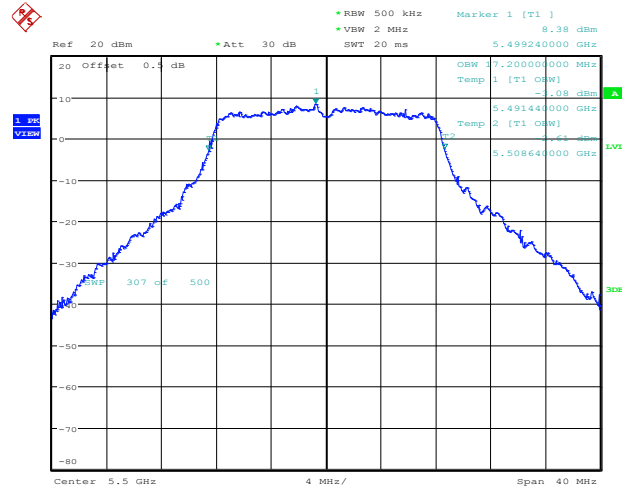


Date: 12.MAY.2021 15:03:01

### 11A\_Ant1\_5500



CTC Laboratories, Inc.



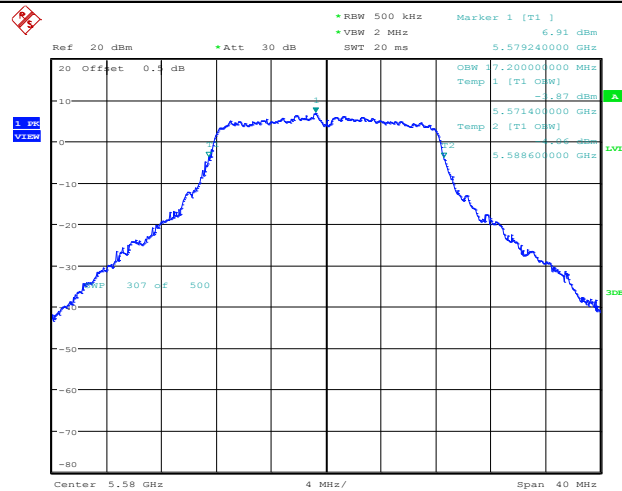
Date: 23.NOV.2020 17:35:19

11A\_Ant2\_5500



Date: 12.MAY.2021 15:04:34

11A\_Ant1\_5580



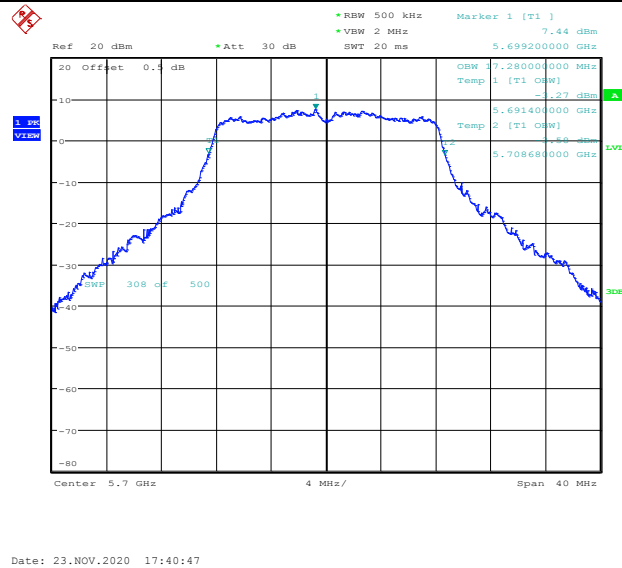
Date: 23.NOV.2020 17:38:45



11A\_Ant2\_5580



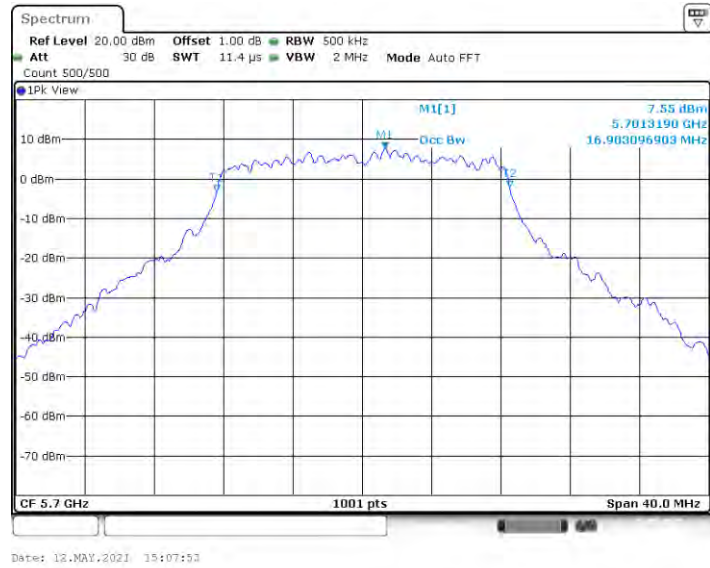
11A\_Ant1\_5700



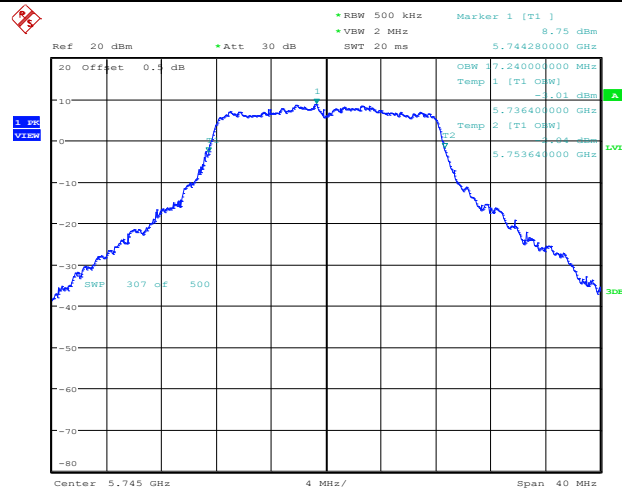
11A\_Ant2\_5700



CTC Laboratories, Inc.

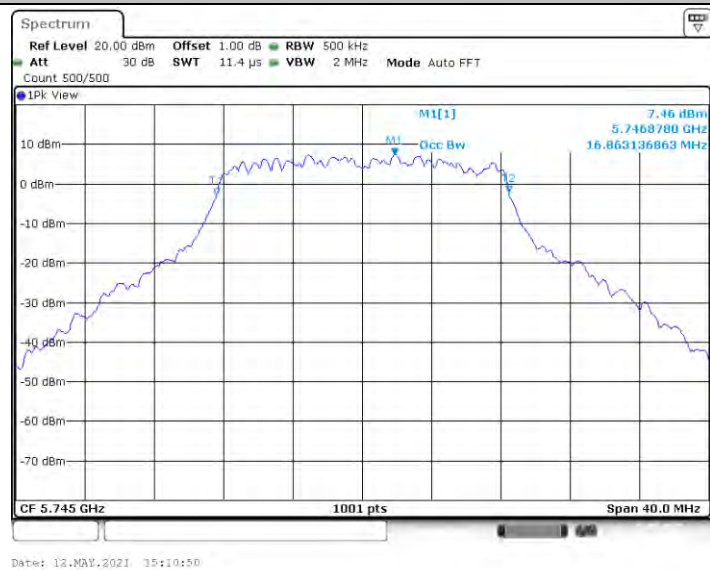


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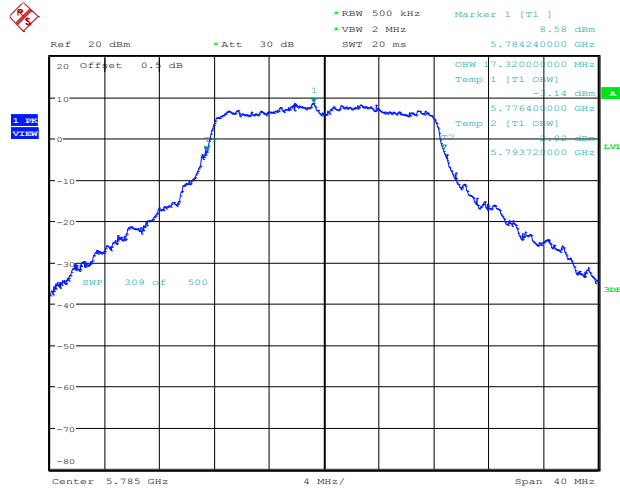
11A\_Ant2\_5745





CTC Laboratories, Inc.

### 11A\_Ant1\_5785



Date: 23.NOV.2020 17:48:39

### 11A\_Ant2\_5785

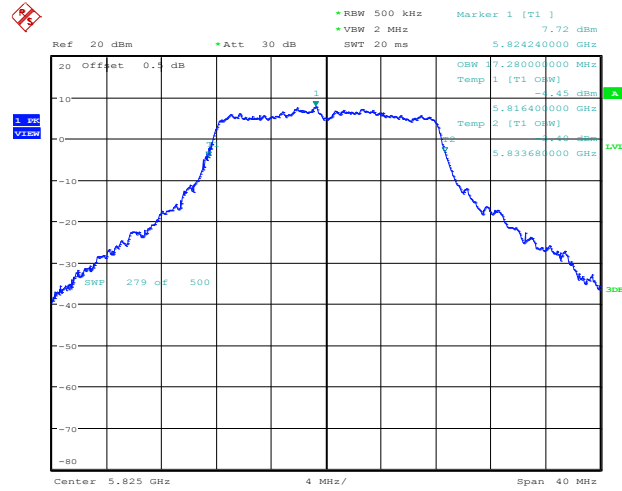


Date: 12.MAY.2021 15:12:39

### 11A\_Ant1\_5825

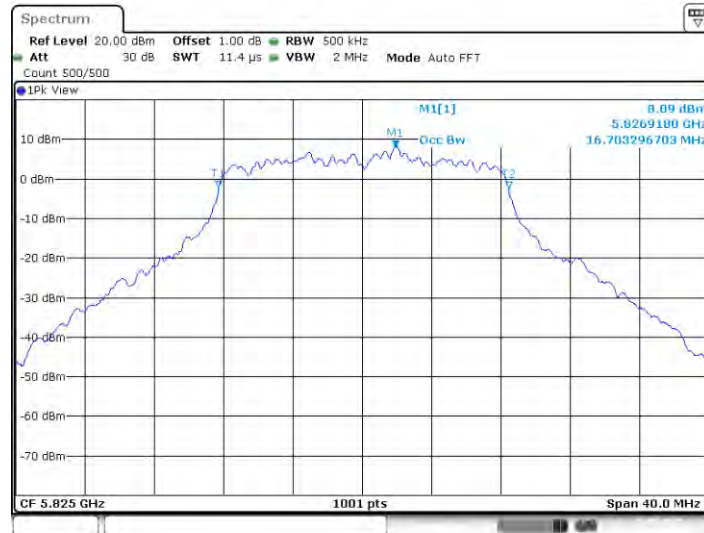


CTC Laboratories, Inc.



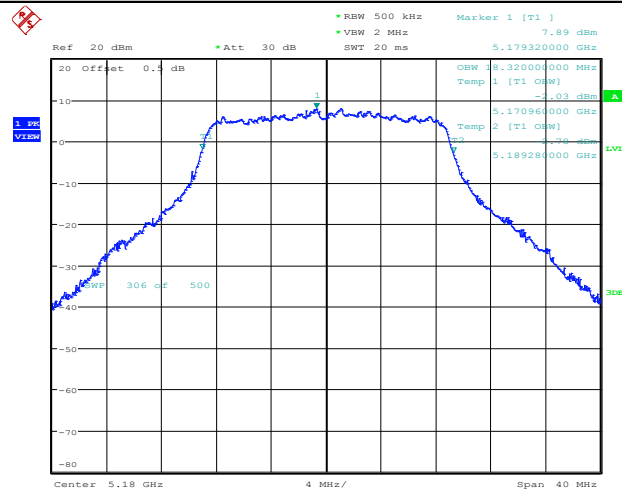
Date: 23.NOV.2020 17:50:58

11A\_Ant2\_5825



Date: 12.MAY.2021 15:14:31

11N20MIMO\_Ant1\_5180



Date: 24.NOV.2020 11:29:56

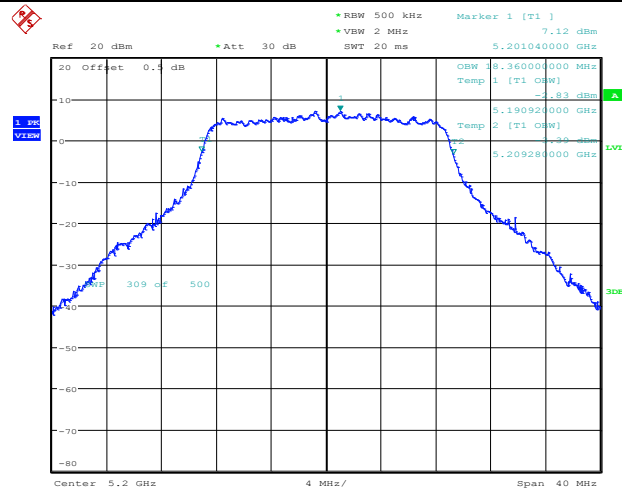


11N20MIMO\_Ant2\_5180



Date: 12.MAY.2021 15:15:57

11N20MIMO\_Ant1\_5200

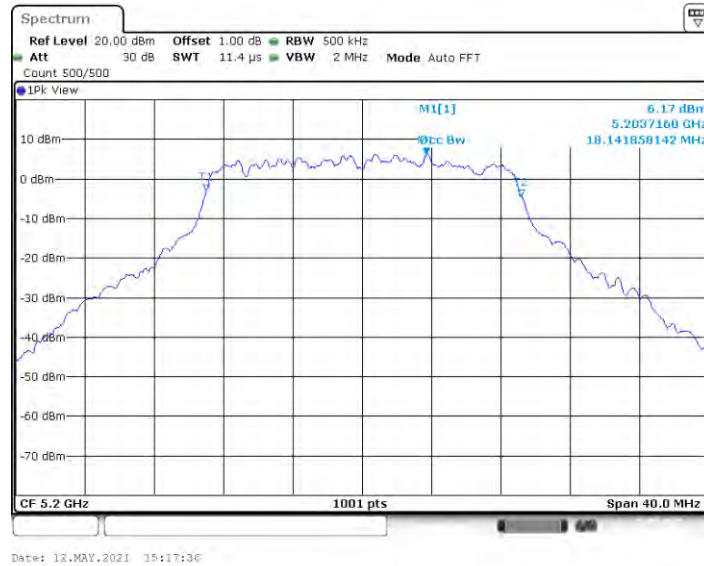


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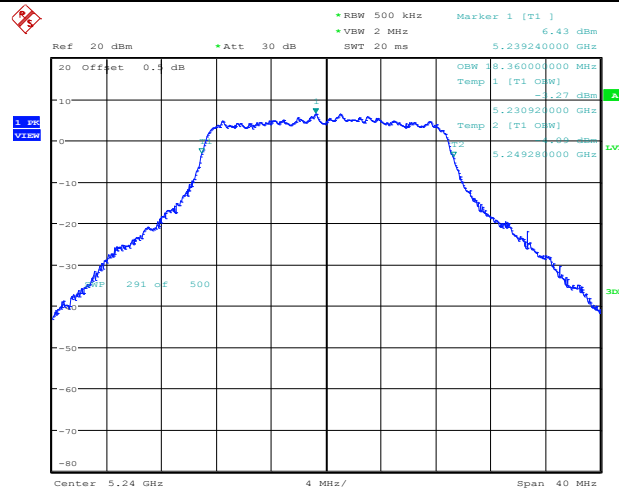
11N20MIMO\_Ant2\_5200



CTC Laboratories, Inc.



11N20MIMO\_Ant1\_5240



Date: 24.NOV.2020 11:34:55

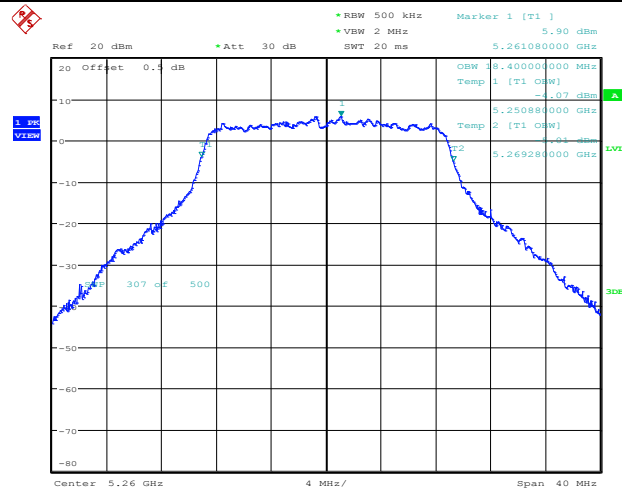
11N20MIMO\_Ant2\_5240





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### 11N20MIMO\_Ant1\_5260



Date: 24.NOV.2020 11:36:49

### 11N20MIMO\_Ant2\_5260

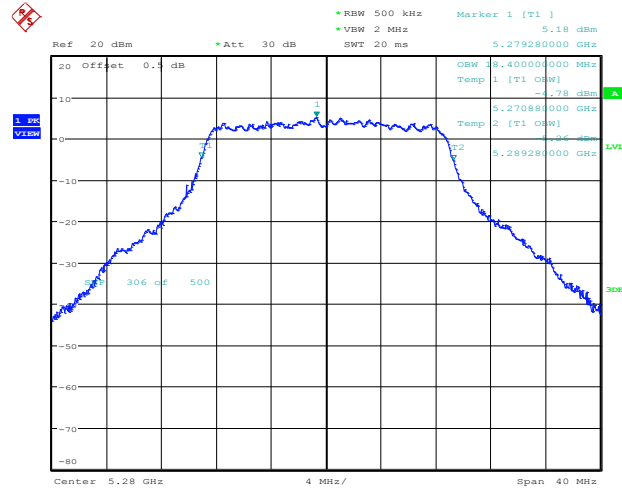


Date: 12.MAY.2021 15:20:33

### 11N20MIMO\_Ant1\_5280



CTC Laboratories, Inc.



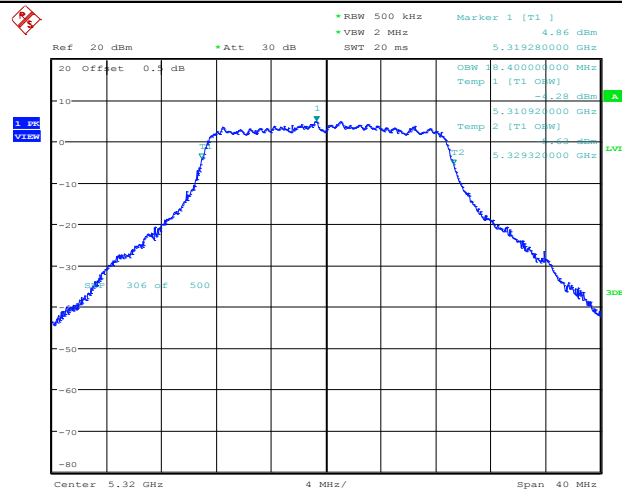
Date: 24.NOV.2020 11:38:58

### 11N20MIMO\_Ant2\_5280



Date: 12.MAY.2021 15:22:05

### 11N20MIMO\_Ant1\_5320



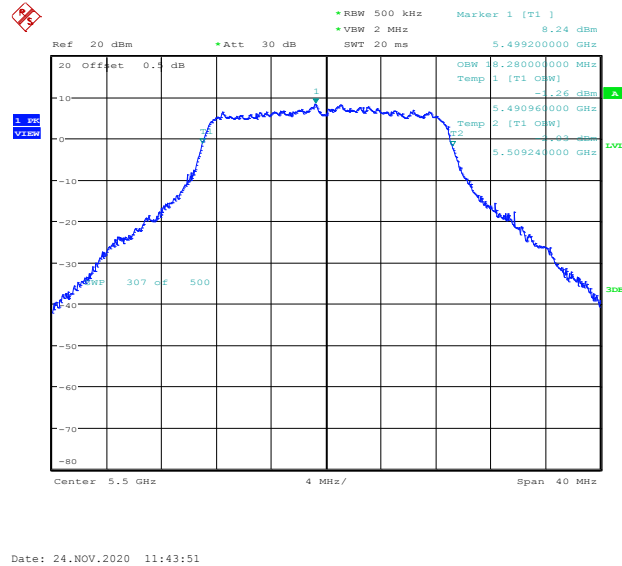
Date: 24.NOV.2020 11:40:47



11N20MIMO\_Ant2\_5320



11N20MIMO\_Ant1\_5500



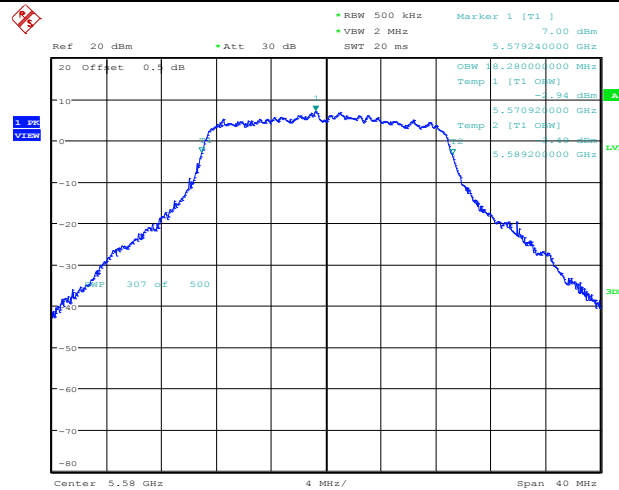
11N20MIMO\_Ant2\_5500



CTC Laboratories, Inc.

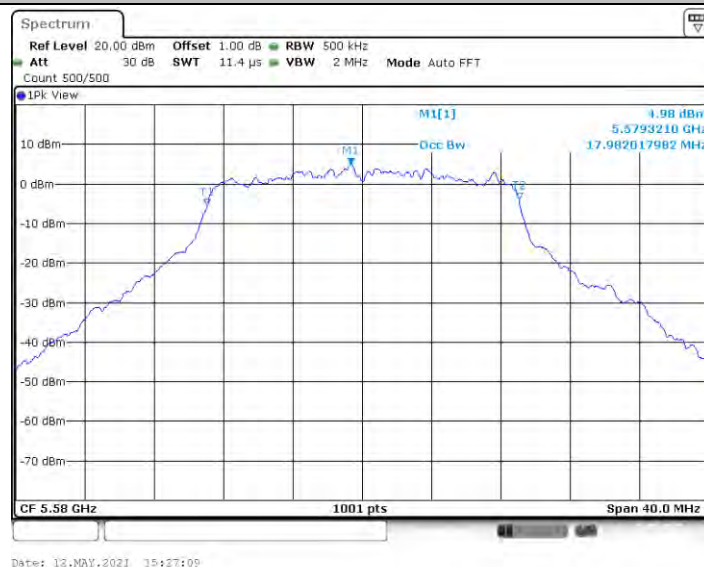


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Date: 24.NOV.2020 11:48:18

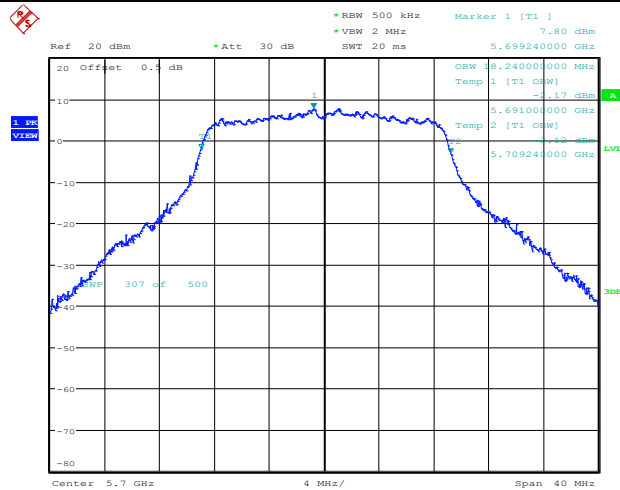
11N20MIMO\_Ant2\_5580





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### 11N20MIMO\_Ant1\_5700



Date: 24.NOV.2020 11:50:08

### 11N20MIMO\_Ant2\_5700



Date: 12.MAY.2021 15:29:32

### 11N20MIMO\_Ant1\_5745



**Spectrum**

|                  |           |               |                        |            |         |
|------------------|-----------|---------------|------------------------|------------|---------|
| <b>Ref Level</b> | 20.00 dBm | <b>Offset</b> | 1.00 dB                | <b>RBW</b> | 500 kHz |
| <b>Att</b>       | 30 dB     | <b>SWT</b>    | 11.4 $\mu$ s           | <b>VBW</b> | 2 MHz   |
| <b>Count</b>     |           |               | 500/500                |            |         |
|                  |           |               | <b>Mode</b> : Auto FFT |            |         |

● Lpk View

M1[1]

Occ Bw

6.89 dBm  
5.7442810 GHz  
18.141858142 MHz

CF 5.745 GHz      1001 pts      Span 40.0 MHz

Date: 12.MAY.2021 19:33:13

Date: 24.NOV.2020 11:57:01

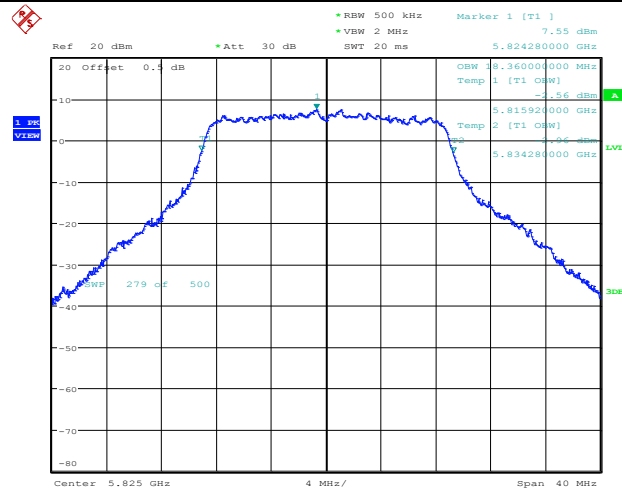


11N20MIMO\_Ant2\_5785



Date: 12.MAY.2021 15:35:22

11N20MIMO\_Ant1\_5825



Date: 24.NOV.2020 12:00:06

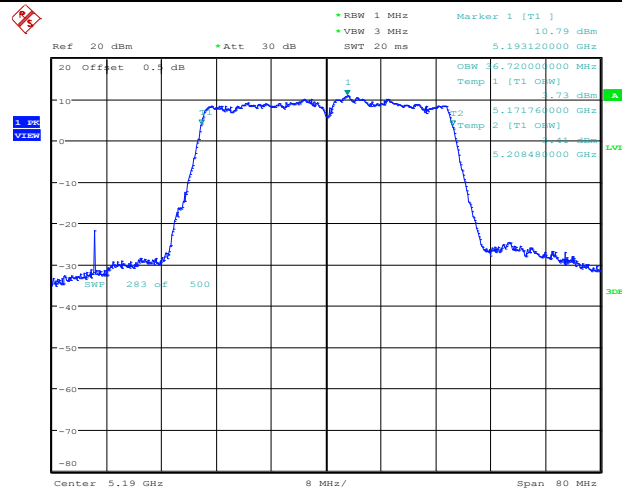
11N20MIMO\_Ant2\_5825



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11N40MIMO\_Ant1\_5190



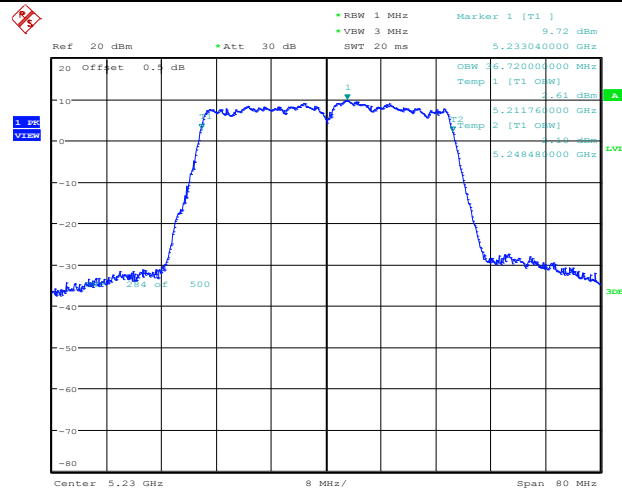
11N40MIMO\_Ant2\_5190





CTC Laboratories, Inc.

### 11N40MIMO\_Ant1\_5230



Date: 24.NOV.2020 13:49:06

### 11N40MIMO\_Ant2\_5230

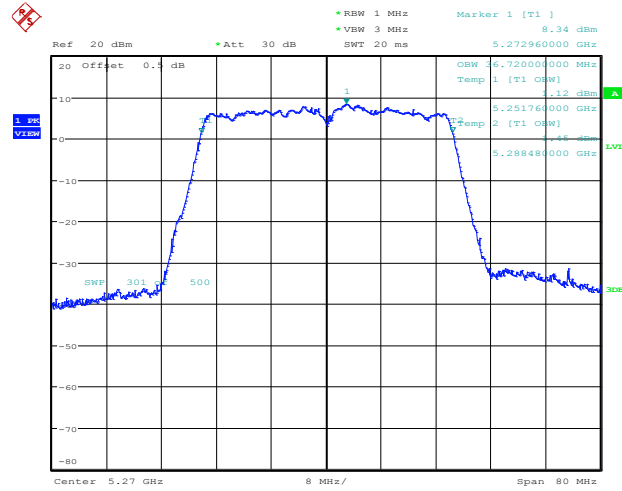


Date: 12.MAY.2021 15:40:39

### 11N40MIMO\_Ant1\_5270



CTC Laboratories, Inc.



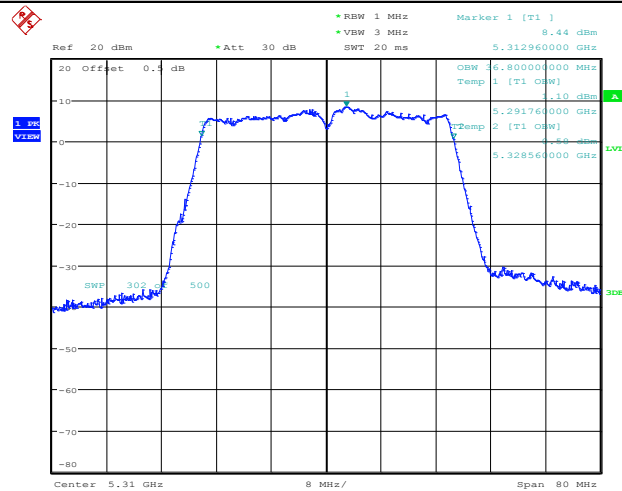
Date: 24.NOV.2020 13:50:58

### 11N40MIMO\_Ant2\_5270



Date: 12.MAY.2021 15:42:58

### 11N40MIMO\_Ant1\_5310



Date: 24.NOV.2020 13:52:50

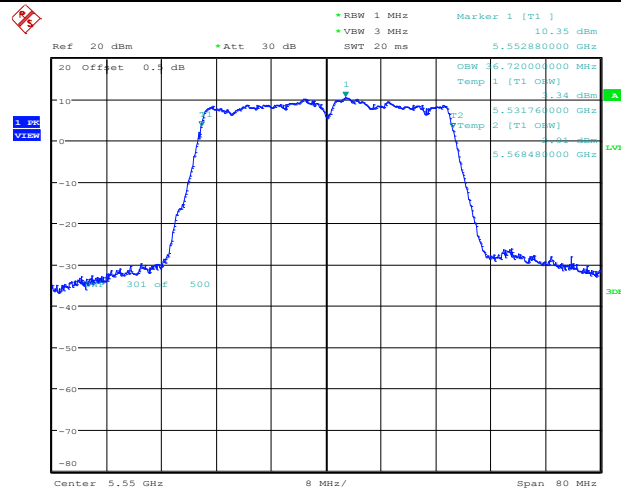




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11N40MIMO\_Ant1\_5550



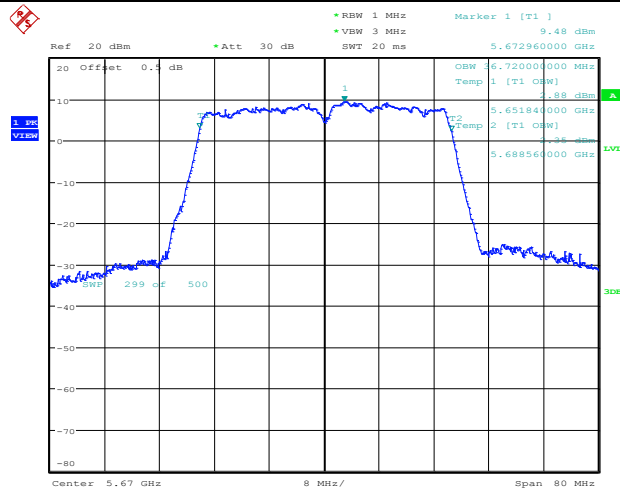
11N40MIMO\_Ant2\_5550





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### 11N40MIMO\_Ant1\_5670



Date: 24.NOV.2020 14:01:12

### 11N40MIMO\_Ant2\_5670

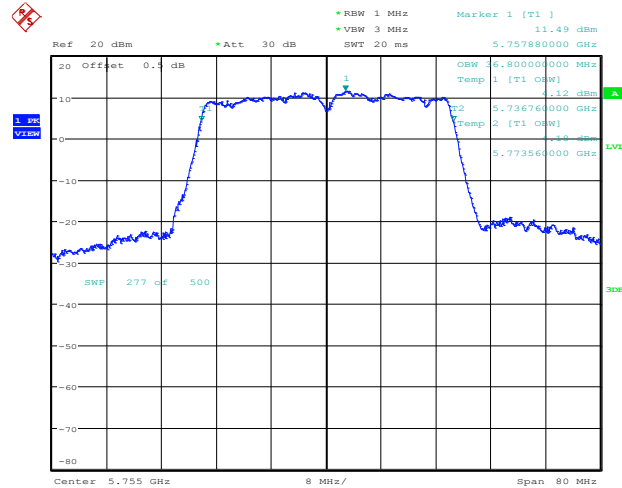


Date: 12.MAY.2021 15:54:30

### 11N40MIMO\_Ant1\_5755



CTC Laboratories, Inc.



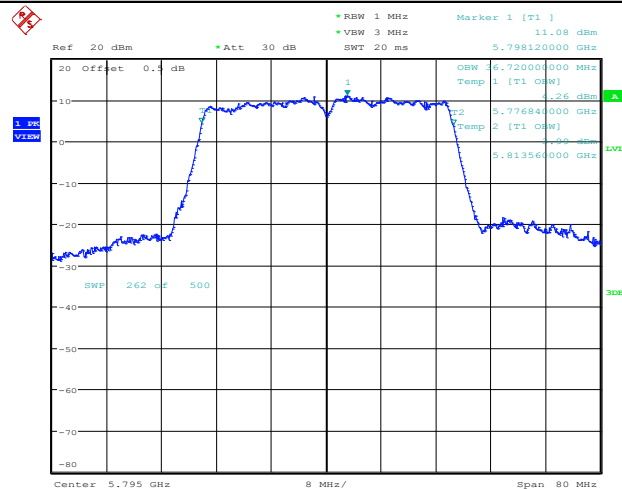
Date: 24.NOV.2020 14:04:42

### 11N40MIMO\_Ant2\_5755



Date: 12.MAY.2021 15:56:13

### 11N40MIMO\_Ant1\_5795



Date: 24.NOV.2020 14:08:34

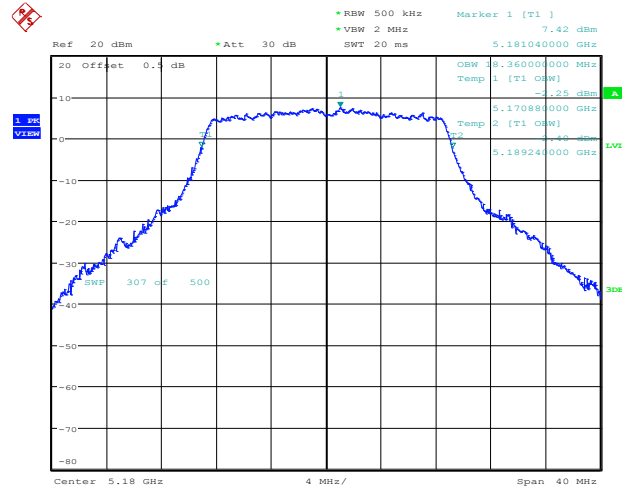


11N40MIMO\_Ant2\_5795



Date: 12.MAY.2021 15:58:06

11AC20MIMO\_Ant1\_5180

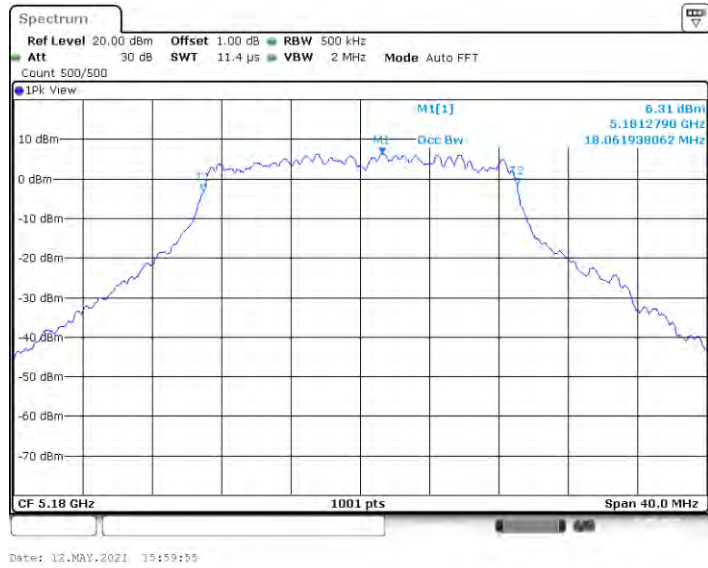


Date: 24.NOV.2020 14:11:28

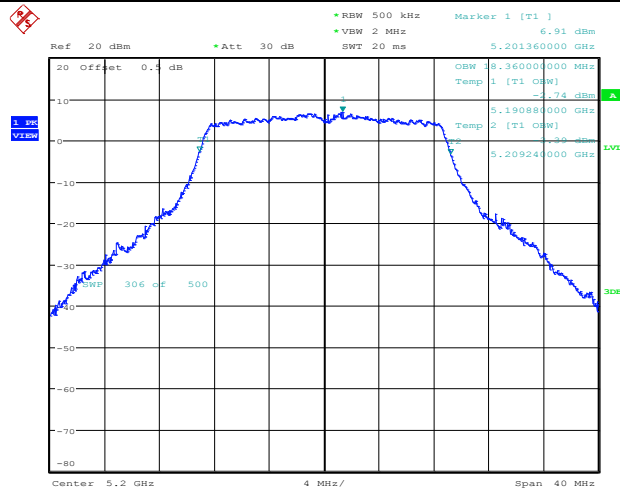
11AC20MIMO\_Ant2\_5180



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11AC20MIMO\_Ant1\_5200



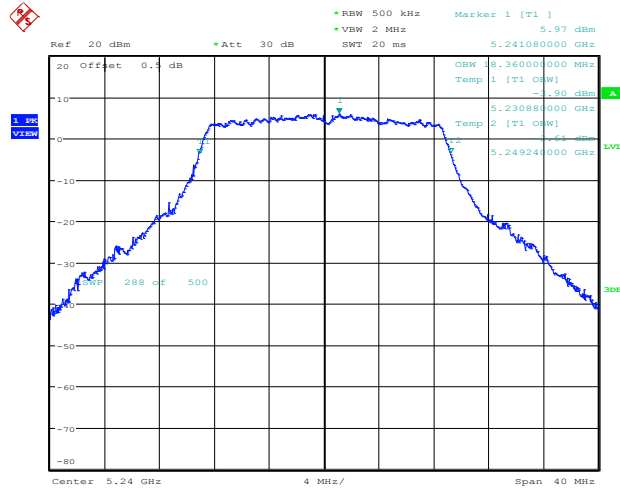
11AC20MIMO\_Ant2\_5200





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### 11AC20MIMO\_Ant1\_5240



Date: 24.NOV.2020 14:17:08

### 11AC20MIMO\_Ant2\_5240

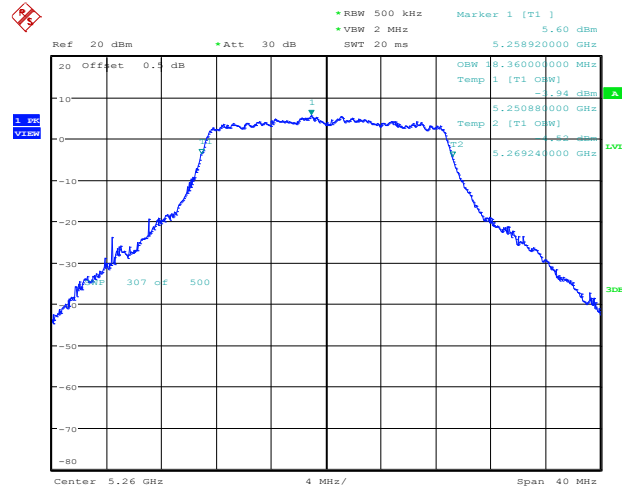


Date: 12.MAY.2021 16:03:14

### 11AC20MIMO\_Ant1\_5260



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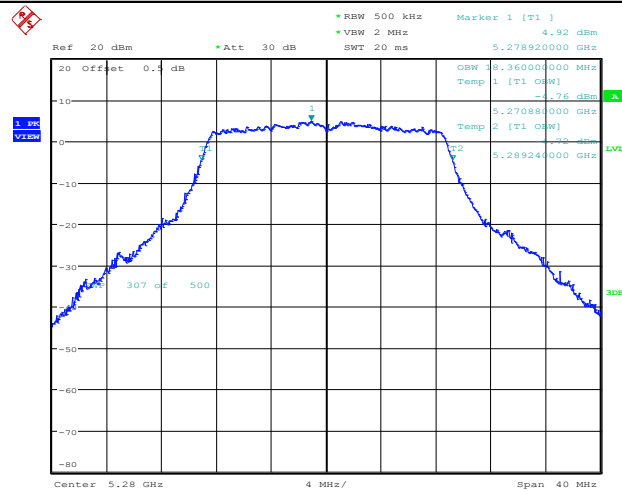
Date: 24.NOV.2020 14:19:01

### 11AC20MIMO\_Ant2\_5260



Date: 12.MAY.2021 16:04:42

### 11AC20MIMO\_Ant1\_5280



Date: 24.NOV.2020 14:20:51

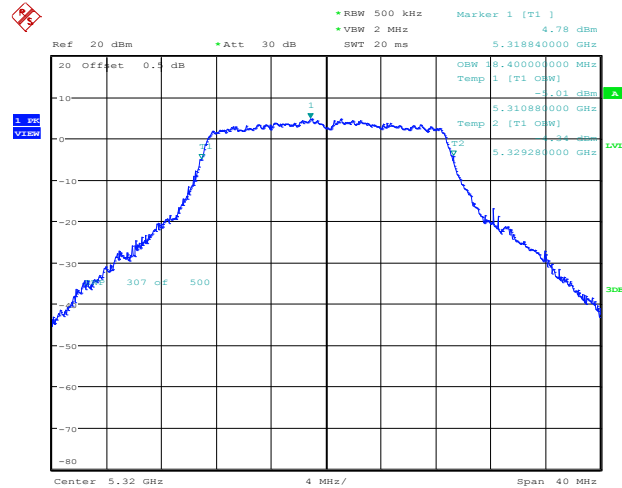


11AC20MIMO\_Ant2\_5280



Date: 12.MAY.2021 16:06:20

11AC20MIMO\_Ant1\_5320



Date: 24.NOV.2020 14:22:52

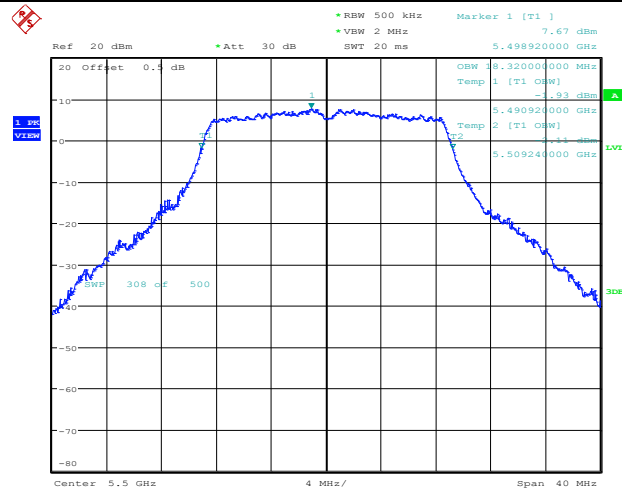
11AC20MIMO\_Ant2\_5320



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11AC20MIMO\_Ant1\_5500



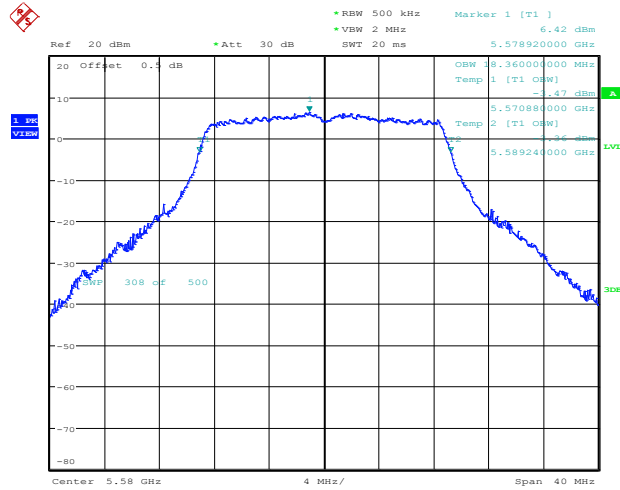
11AC20MIMO\_Ant2\_5500





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### 11AC20MIMO\_Ant1\_5580



Date: 24.NOV.2020 14:32:08

### 11AC20MIMO\_Ant2\_5580

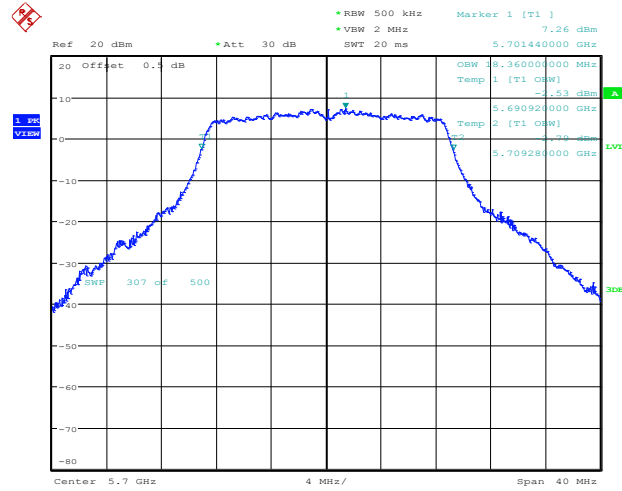


Date: 12.MAY.2021 16:11:09

### 11AC20MIMO\_Ant1\_5700



CTC Laboratories, Inc.



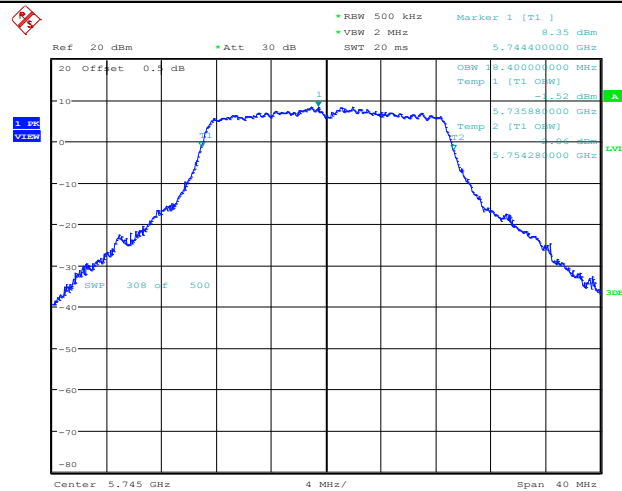
Date: 24.NOV.2020 14:34:01

### 11AC20MIMO\_Ant2\_5700



Date: 12.MAY.2021 16:12:43

### 11AC20MIMO\_Ant1\_5745



Date: 24.NOV.2020 14:37:28



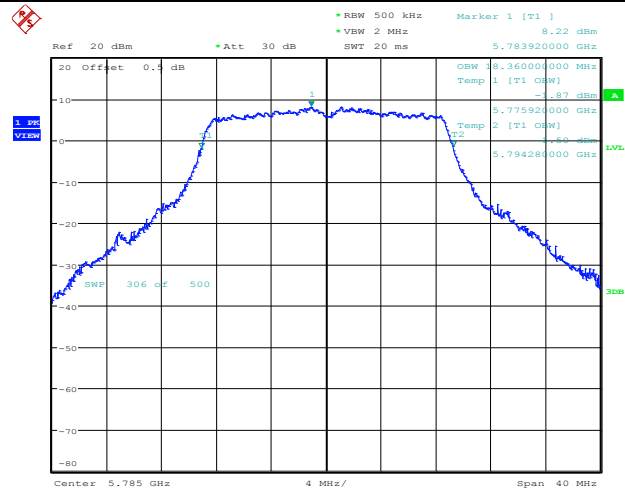
CTC Laboratories, Inc.

### 11AC20MIMO\_Ant2\_5745



Date: 12.MAY.2021 16:14:42

### 11AC20MIMO\_Ant1\_5785



Date: 24.NOV.2020 14:40:53

### 11AC20MIMO\_Ant2\_5785