

# RF Test Data for 5G Wi-Fi (Conducted Measurements)

| General Description of EUT                                                                      |                         |
|-------------------------------------------------------------------------------------------------|-------------------------|
| Product Name:                                                                                   | Acerone Liquid S272E4   |
| Model:                                                                                          | Acerone Liquid S272E4   |
| Sample ID:                                                                                      | HC-C-202410-0214-01-01# |
| Test Standard:                                                                                  | FCC Part 15.407         |
| Environmental Conditions                                                                        |                         |
| Ambient Temperature:                                                                            | 25°C                    |
| Ambient Humidity:                                                                               | 55%                     |
| Test Power Supply:                                                                              | DC 3.87V                |
| Test Engineer:                                                                                  | Zkn Zhou                |
| Note: For a more detailed features description, please refer to the report TBR-C-202410-0214-23 |                         |

## Contents

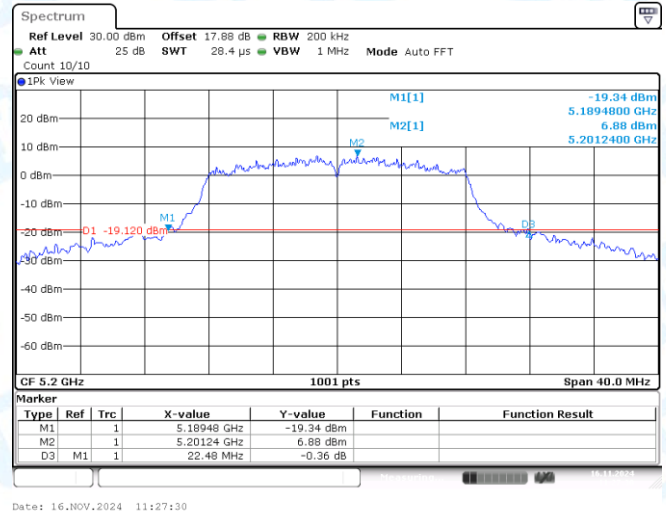
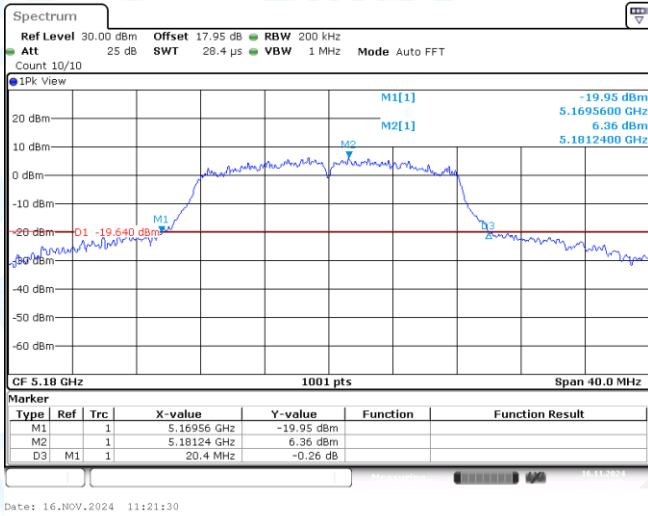
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## 1: Emission Bandwidth

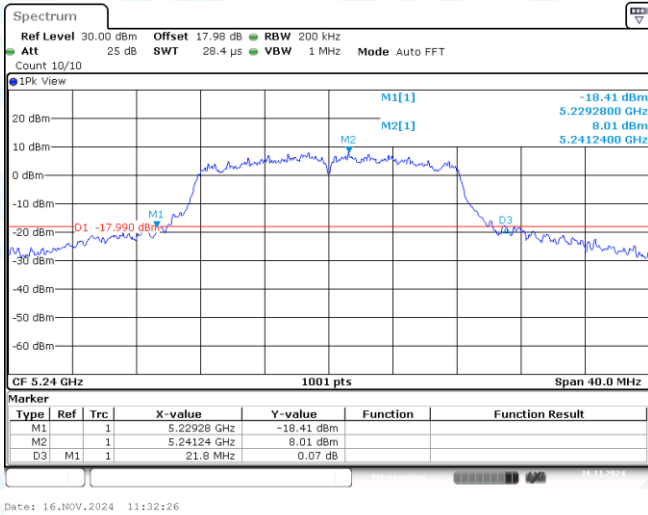
### 1.1 Test Result

| TestMode   | Antenna | Frequency[MHz] | 26dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------|---------|---------|------------|---------|
| 11A        | Ant1    | 5180           | 20.40          | 5169.56 | 5189.96 | ---        | ---     |
| 11A        | Ant1    | 5200           | 22.48          | 5189.48 | 5211.96 | ---        | ---     |
| 11A        | Ant1    | 5240           | 21.80          | 5229.28 | 5251.08 | ---        | ---     |
| 11A        | Ant1    | 5260           | 20.68          | 5249.56 | 5270.24 | ---        | ---     |
| 11A        | Ant1    | 5280           | 20.84          | 5269.60 | 5290.44 | ---        | ---     |
| 11A        | Ant1    | 5320           | 20.24          | 5309.68 | 5329.92 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 23.00          | 5168.20 | 5191.20 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 22.88          | 5188.16 | 5211.04 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 24.48          | 5228.16 | 5252.64 | ---        | ---     |
| 11N20SISO  | Ant1    | 5260           | 23.48          | 5248.20 | 5271.68 | ---        | ---     |
| 11N20SISO  | Ant1    | 5280           | 21.48          | 5268.88 | 5290.36 | ---        | ---     |
| 11N20SISO  | Ant1    | 5320           | 22.28          | 5308.16 | 5330.44 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 55.68          | 5167.28 | 5222.96 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 52.96          | 5200.48 | 5253.44 | ---        | ---     |
| 11N40SISO  | Ant1    | 5270           | 47.36          | 5247.36 | 5294.72 | ---        | ---     |
| 11N40SISO  | Ant1    | 5310           | 52.32          | 5282.48 | 5334.80 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 21.80          | 5168.60 | 5190.40 | ---        | ---     |
| 11AC20SISO | Ant1    | 5200           | 21.12          | 5189.64 | 5210.76 | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 23.28          | 5229.00 | 5252.28 | ---        | ---     |
| 11AC20SISO | Ant1    | 5260           | 21.72          | 5249.56 | 5271.28 | ---        | ---     |
| 11AC20SISO | Ant1    | 5280           | 20.28          | 5269.84 | 5290.12 | ---        | ---     |
| 11AC20SISO | Ant1    | 5320           | 21.80          | 5308.32 | 5330.12 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 40.00          | 5170.08 | 5210.08 | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 43.92          | 5209.36 | 5253.28 | ---        | ---     |
| 11AC40SISO | Ant1    | 5270           | 48.32          | 5247.60 | 5295.92 | ---        | ---     |
| 11AC40SISO | Ant1    | 5310           | 40.48          | 5289.60 | 5330.08 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 99.52          | 5170.16 | 5269.68 | ---        | ---     |
| 11AC80SISO | Ant1    | 5290           | 79.84          | 5250.16 | 5330.00 | ---        | ---     |

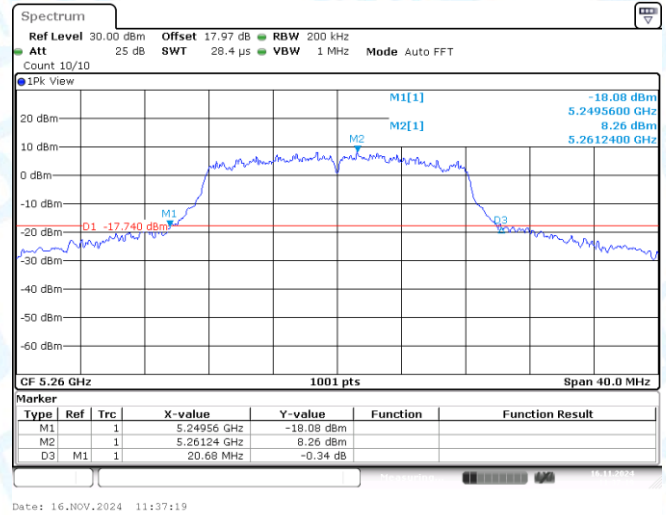
## 1.2 Test Graphs



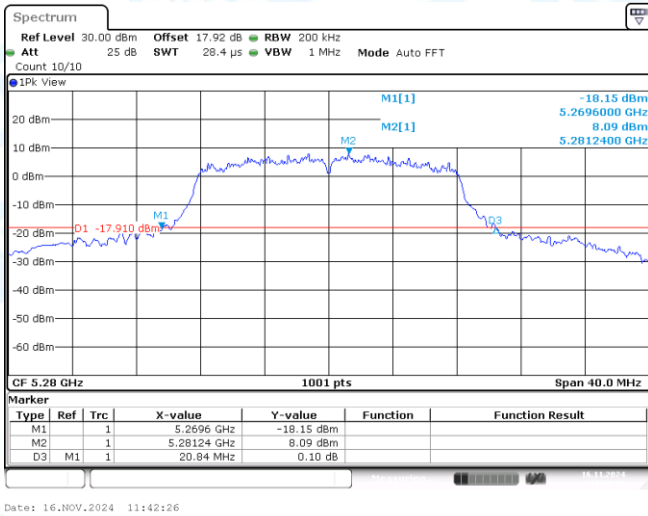
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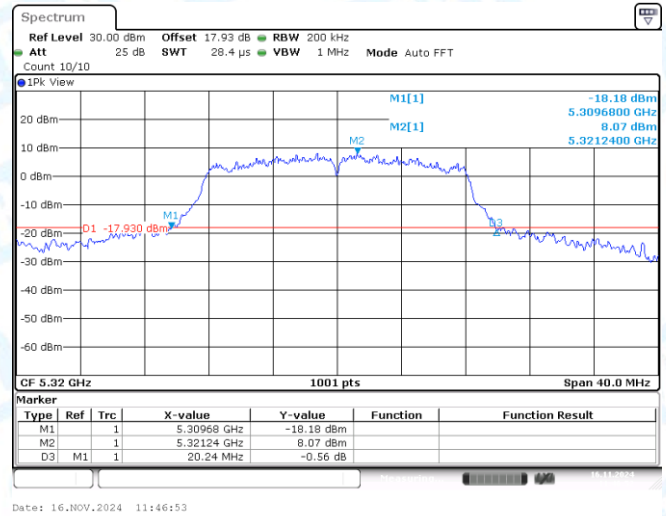
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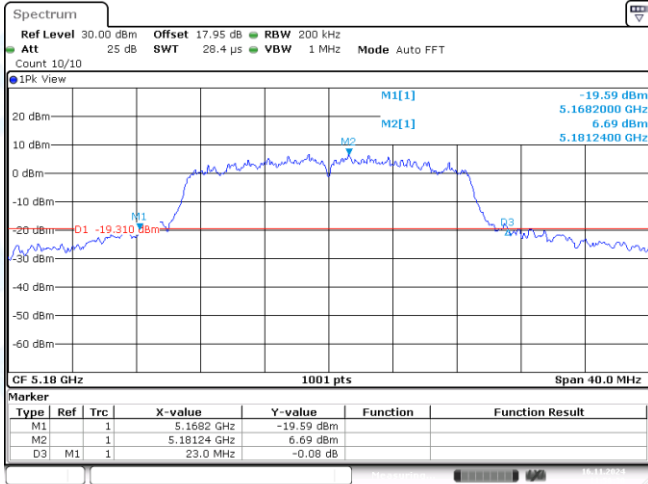


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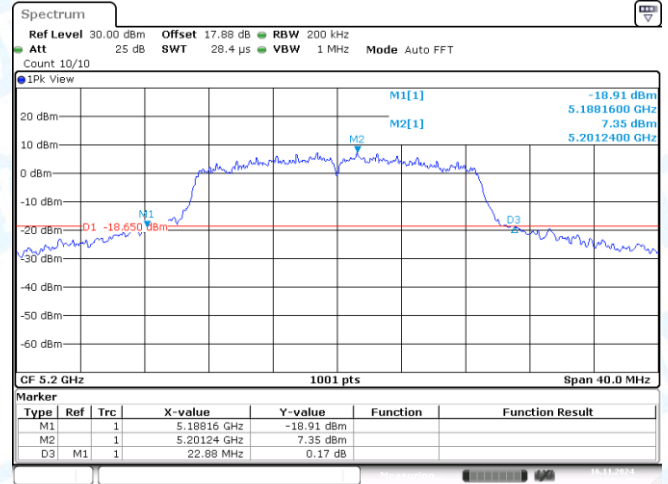


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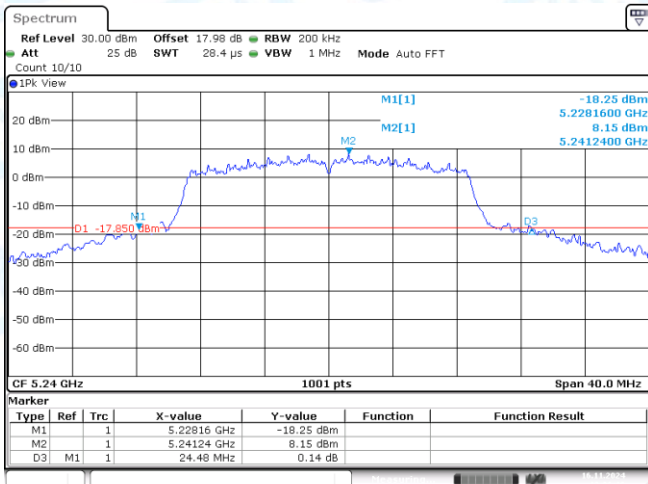
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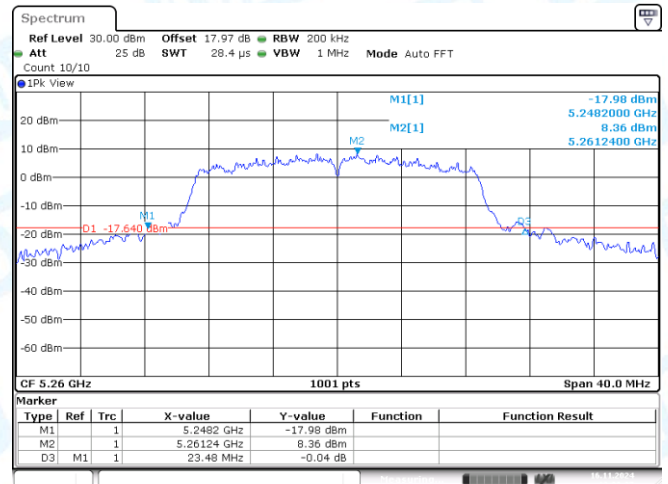
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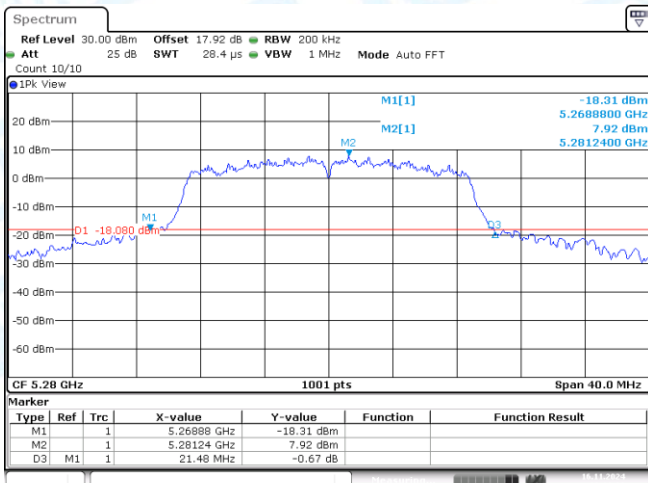
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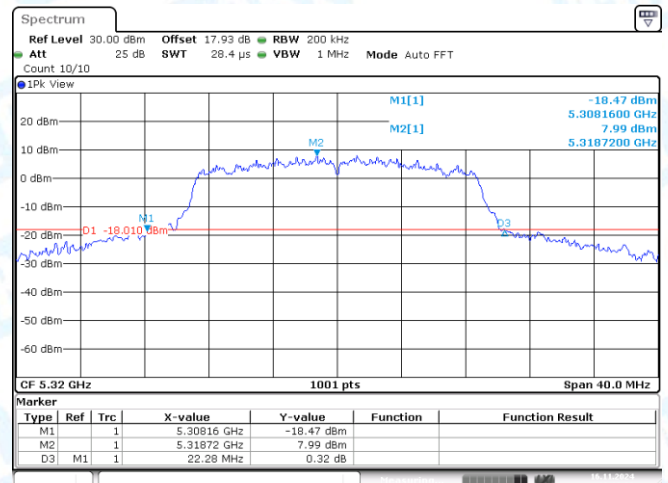
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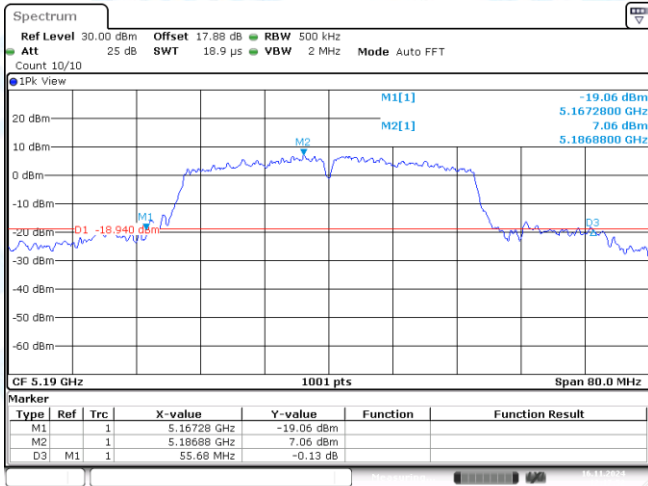
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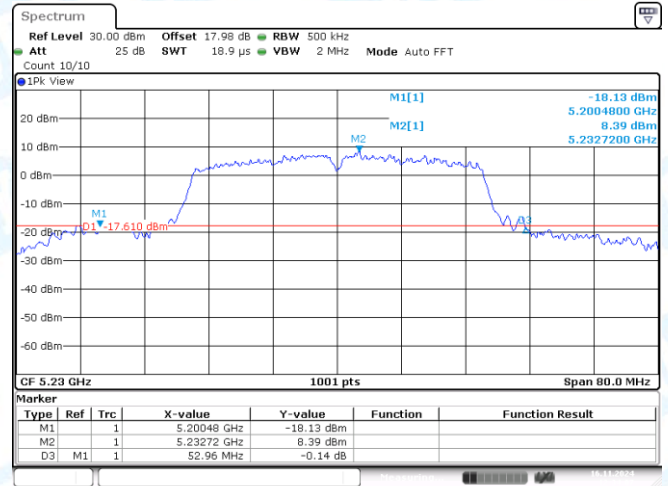
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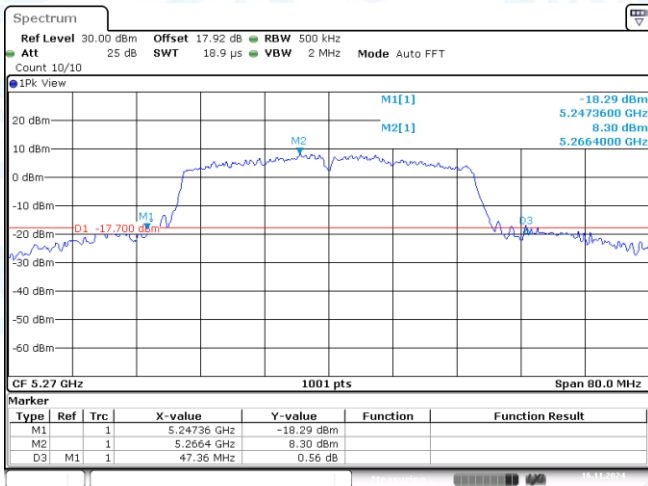
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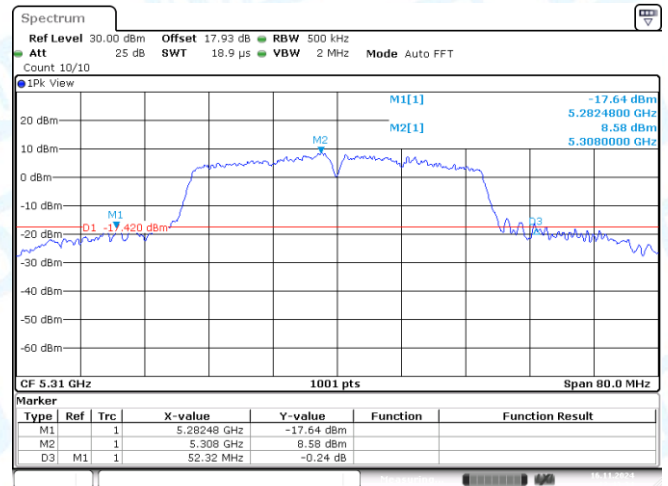
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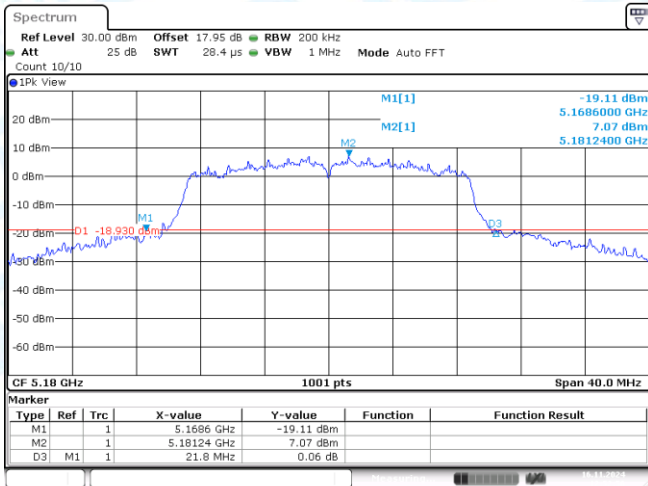
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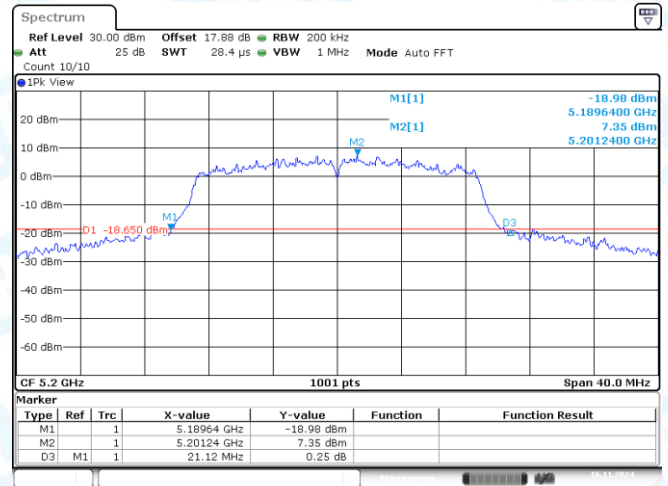
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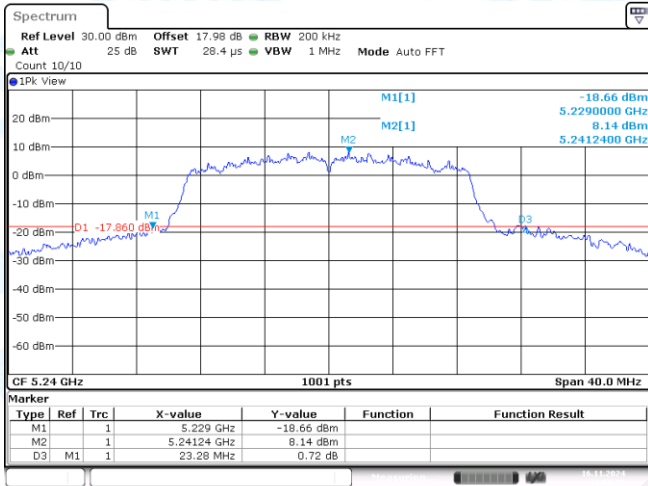
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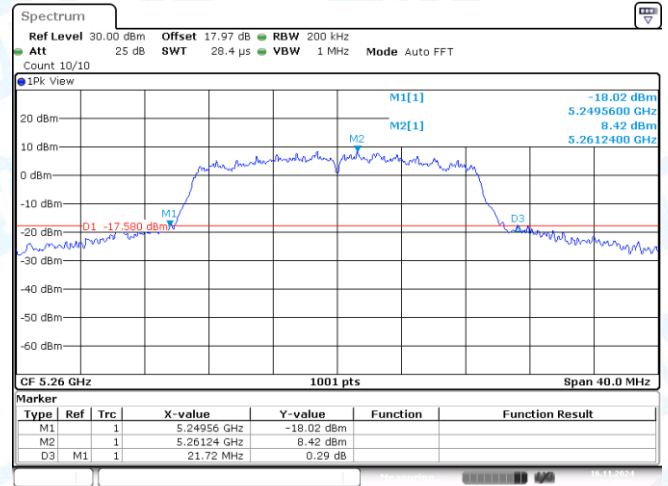
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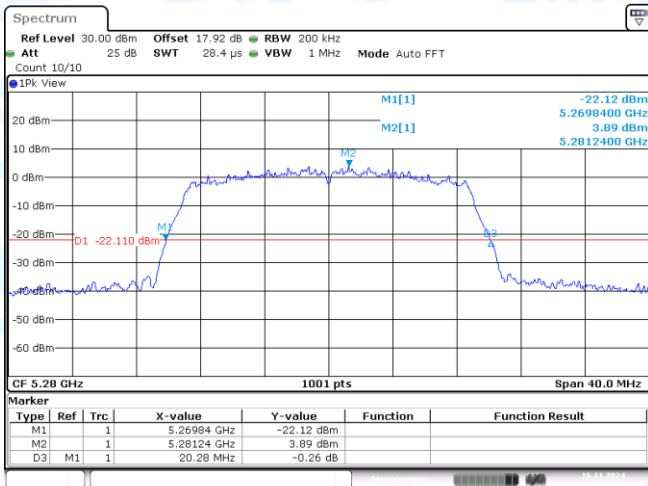
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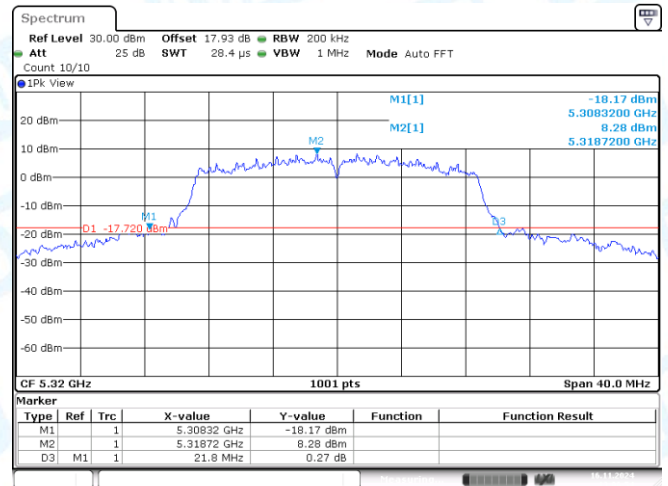
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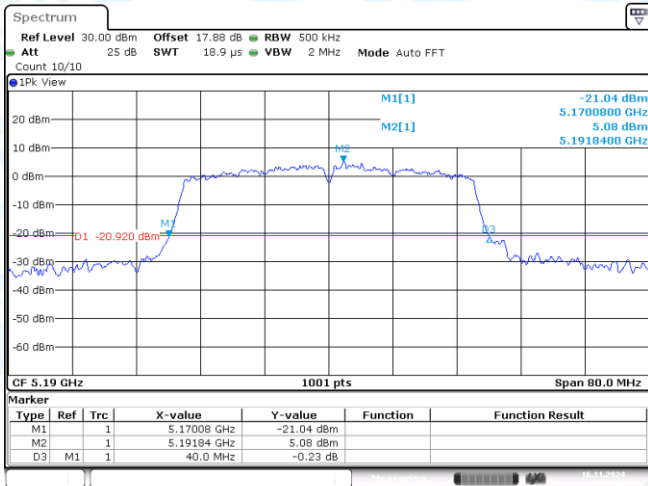
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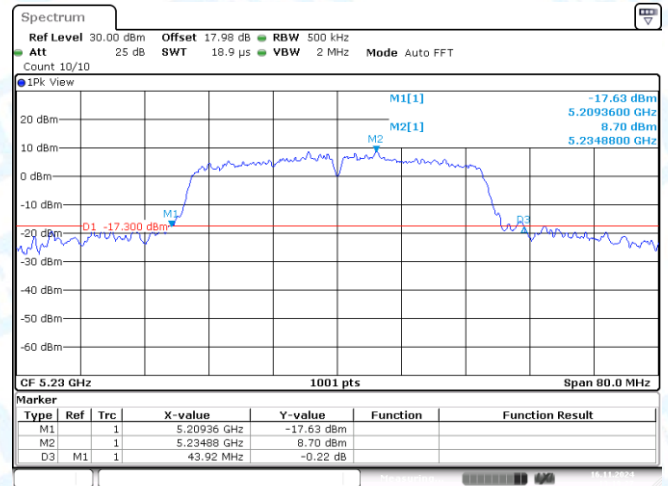
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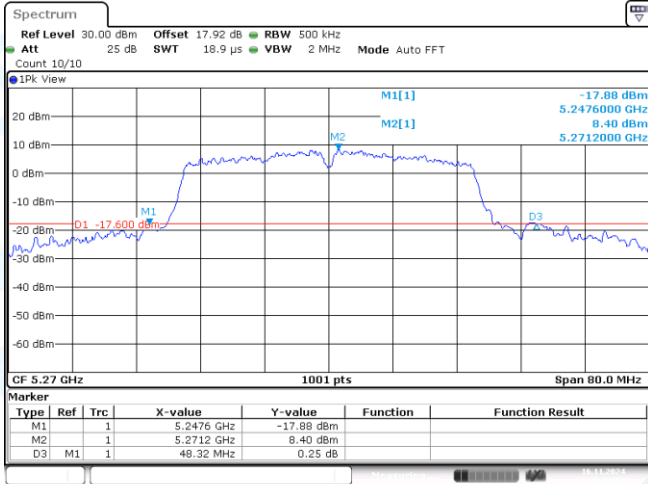
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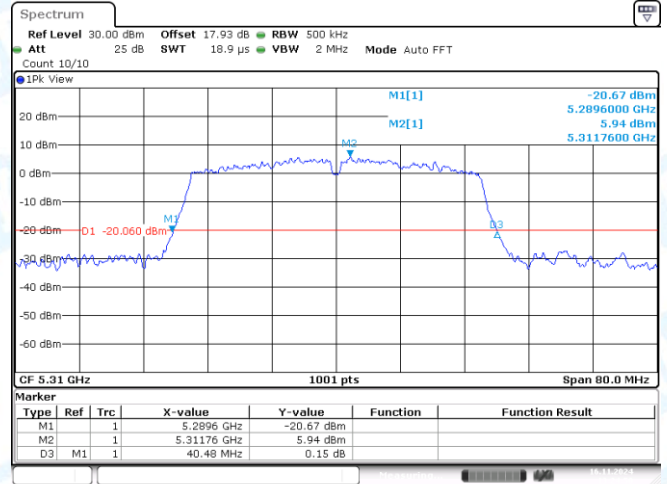
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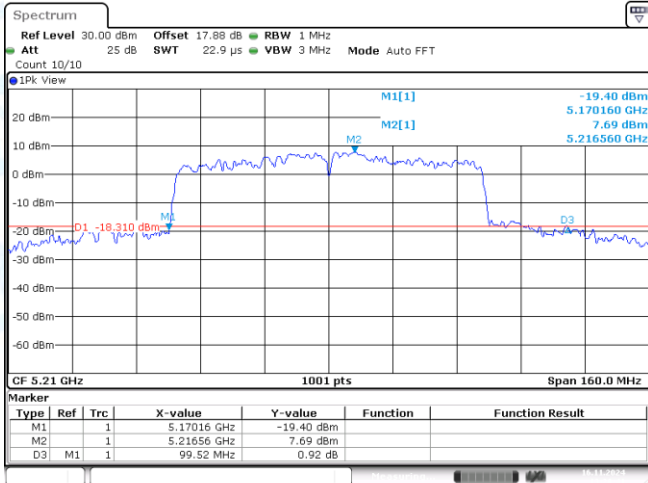
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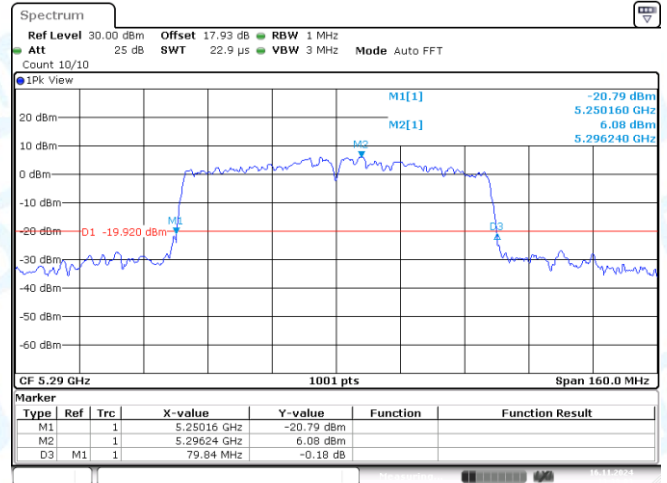
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11AC40SISO-Ant1-5310



11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290

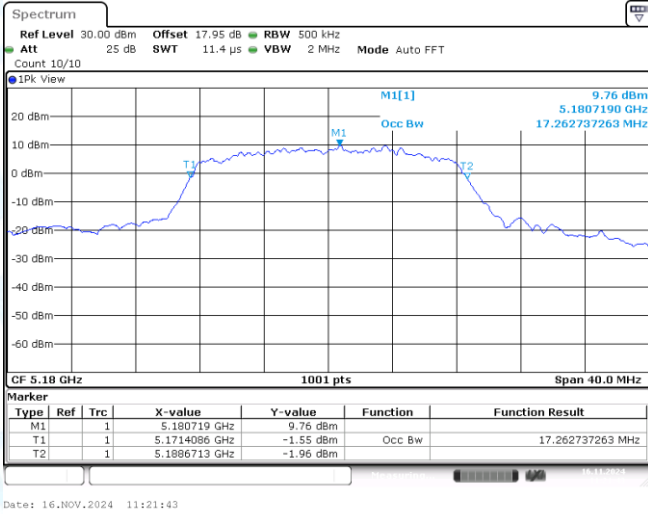
## 2: Occupied channel bandwidth

### 2.1 Test Result

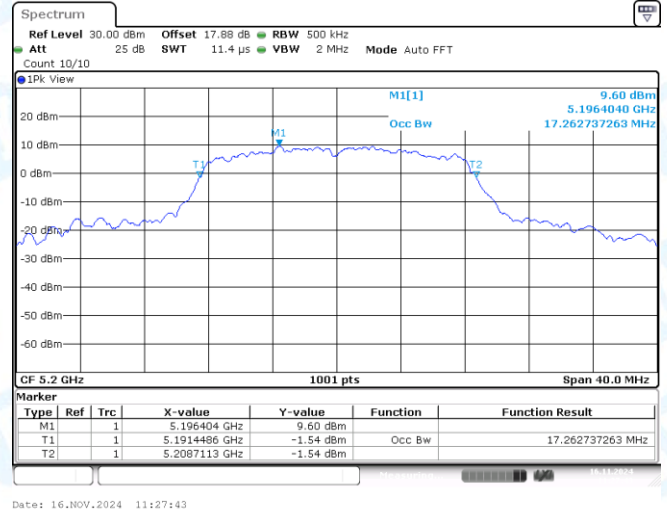
| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A        | Ant1    | 5180           | 17.263    | 5171.4086 | 5188.6713 | ---        | ---     |
| 11A        | Ant1    | 5200           | 17.263    | 5191.4486 | 5208.7113 | ---        | ---     |
| 11A        | Ant1    | 5240           | 17.343    | 5231.2488 | 5248.5914 | ---        | ---     |
| 11A        | Ant1    | 5260           | 17.183    | 5251.3686 | 5268.5514 | ---        | ---     |
| 11A        | Ant1    | 5280           | 17.103    | 5271.2887 | 5288.3916 | ---        | ---     |
| 11A        | Ant1    | 5320           | 17.423    | 5311.2887 | 5328.7113 | ---        | ---     |
| 11A        | Ant1    | 5745           | 17.662    | 5736.2088 | 5753.8711 | ---        | ---     |
| 11A        | Ant1    | 5785           | 17.622    | 5776.1688 | 5793.7912 | ---        | ---     |
| 11A        | Ant1    | 5825           | 17.383    | 5816.2488 | 5833.6314 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 18.222    | 5170.7692 | 5188.9910 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 18.501    | 5190.5694 | 5209.0709 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 18.422    | 5230.6094 | 5249.0310 | ---        | ---     |
| 11N20SISO  | Ant1    | 5260           | 18.062    | 5250.9690 | 5269.0310 | ---        | ---     |
| 11N20SISO  | Ant1    | 5280           | 18.462    | 5270.6893 | 5289.1508 | ---        | ---     |
| 11N20SISO  | Ant1    | 5320           | 18.382    | 5310.6494 | 5329.0310 | ---        | ---     |
| 11N20SISO  | Ant1    | 5745           | 18.422    | 5735.7293 | 5754.1508 | ---        | ---     |
| 11N20SISO  | Ant1    | 5785           | 18.581    | 5775.5295 | 5794.1109 | ---        | ---     |
| 11N20SISO  | Ant1    | 5825           | 18.541    | 5815.8092 | 5834.3506 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.523    | 5171.7782 | 5208.3017 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 36.683    | 5211.6184 | 5248.3017 | ---        | ---     |
| 11N40SISO  | Ant1    | 5270           | 36.124    | 5251.8581 | 5287.9820 | ---        | ---     |
| 11N40SISO  | Ant1    | 5310           | 36.683    | 5291.6983 | 5328.3816 | ---        | ---     |
| 11N40SISO  | Ant1    | 5755           | 36.923    | 5736.0589 | 5772.9820 | ---        | ---     |
| 11N40SISO  | Ant1    | 5795           | 36.523    | 5776.6184 | 5813.1419 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 18.142    | 5170.8891 | 5189.0310 | ---        | ---     |
| 11AC20SISO | Ant1    | 5200           | 18.102    | 5190.9291 | 5209.0310 | ---        | ---     |
| 11AC20SISO | Ant1    | 5240           | 18.262    | 5231.0090 | 5249.2707 | ---        | ---     |
| 11AC20SISO | Ant1    | 5260           | 18.182    | 5250.8891 | 5269.0709 | ---        | ---     |
| 11AC20SISO | Ant1    | 5280           | 17.902    | 5271.0090 | 5288.9111 | ---        | ---     |
| 11AC20SISO | Ant1    | 5320           | 18.262    | 5310.7293 | 5328.9910 | ---        | ---     |
| 11AC20SISO | Ant1    | 5745           | 18.222    | 5735.8092 | 5754.0310 | ---        | ---     |
| 11AC20SISO | Ant1    | 5785           | 18.222    | 5775.8092 | 5794.0310 | ---        | ---     |
| 11AC20SISO | Ant1    | 5825           | 18.262    | 5815.8891 | 5834.1508 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 36.284    | 5172.0180 | 5208.3017 | ---        | ---     |
| 11AC40SISO | Ant1    | 5230           | 36.284    | 5211.8581 | 5248.1419 | ---        | ---     |
| 11AC40SISO | Ant1    | 5270           | 36.284    | 5251.9381 | 5288.2218 | ---        | ---     |
| 11AC40SISO | Ant1    | 5310           | 35.964    | 5291.9381 | 5327.9021 | ---        | ---     |
| 11AC40SISO | Ant1    | 5755           | 36.683    | 5736.6184 | 5773.3017 | ---        | ---     |
| 11AC40SISO | Ant1    | 5795           | 36.603    | 5776.4585 | 5813.0619 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 76.244    | 5172.1179 | 5248.3616 | ---        | ---     |
| 11AC80SISO | Ant1    | 5290           | 75.764    | 5252.1179 | 5327.8821 | ---        | ---     |

|            |      |      |        |           |           |     |     |
|------------|------|------|--------|-----------|-----------|-----|-----|
| 11AC80SISO | Ant1 | 5775 | 76.244 | 5736.4785 | 5812.7223 | --- | --- |
|------------|------|------|--------|-----------|-----------|-----|-----|

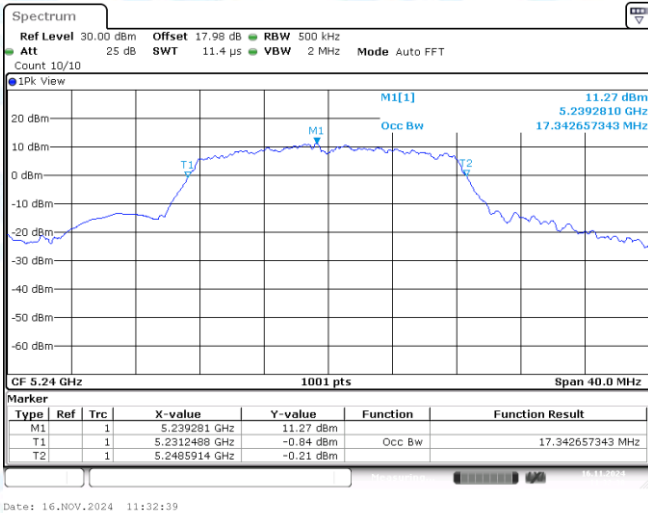
## 2.2 Test Graphs



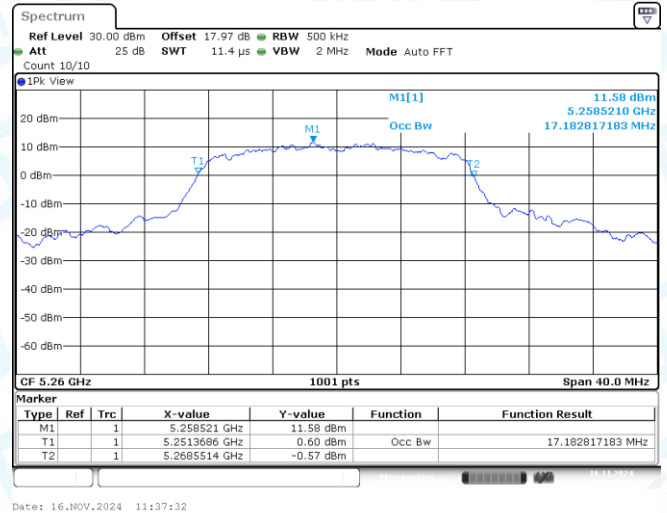
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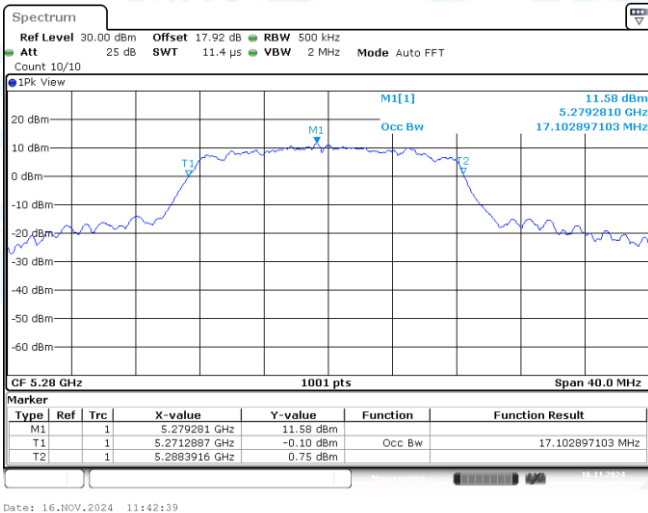
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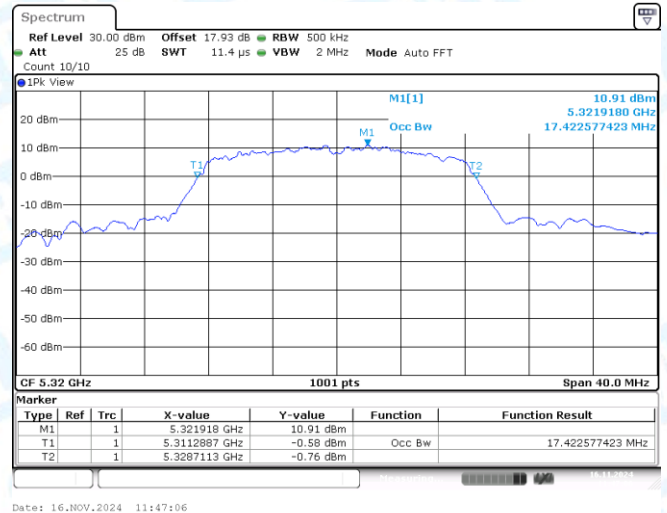
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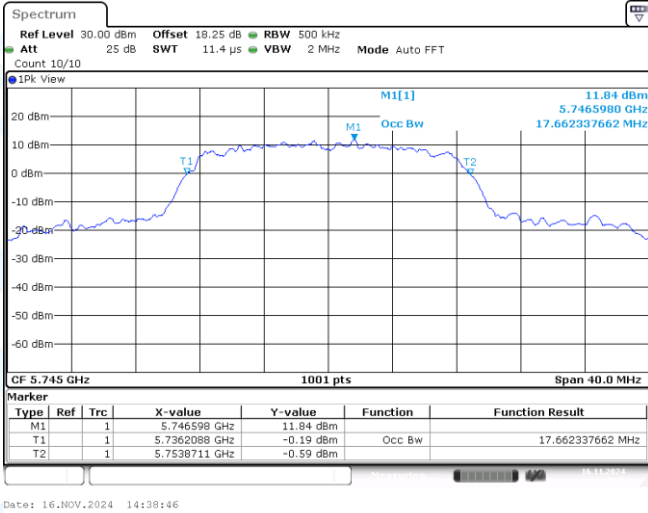
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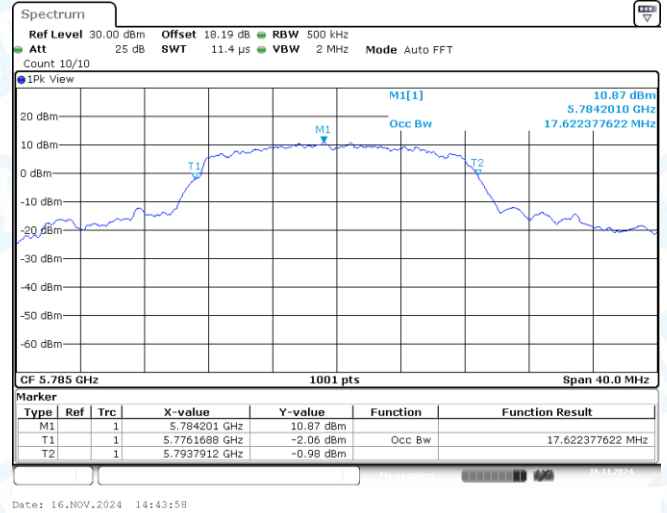
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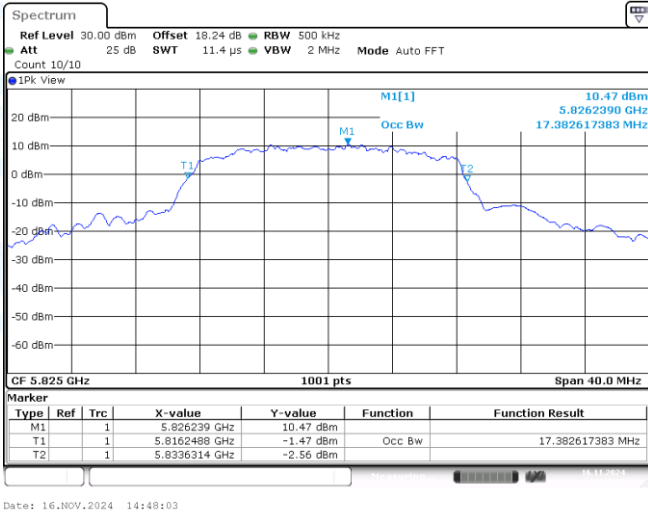
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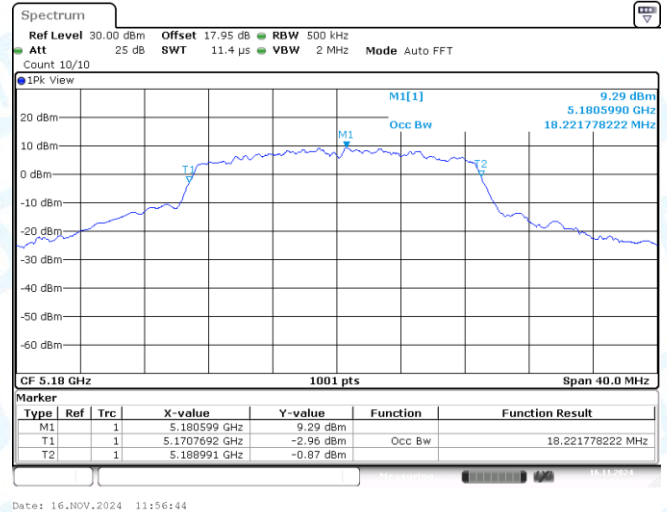
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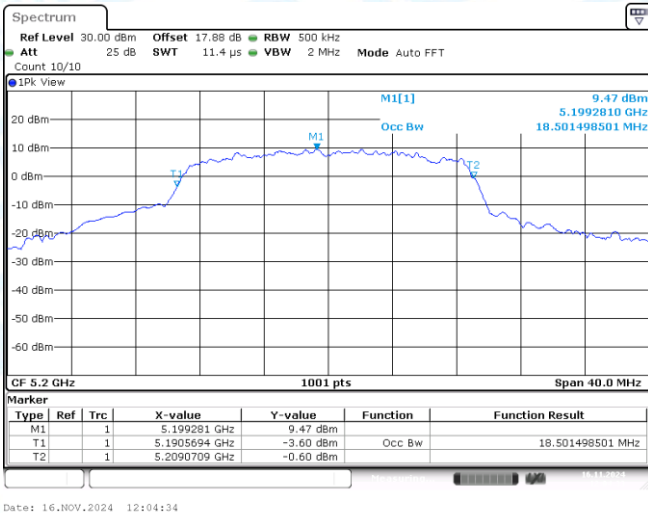
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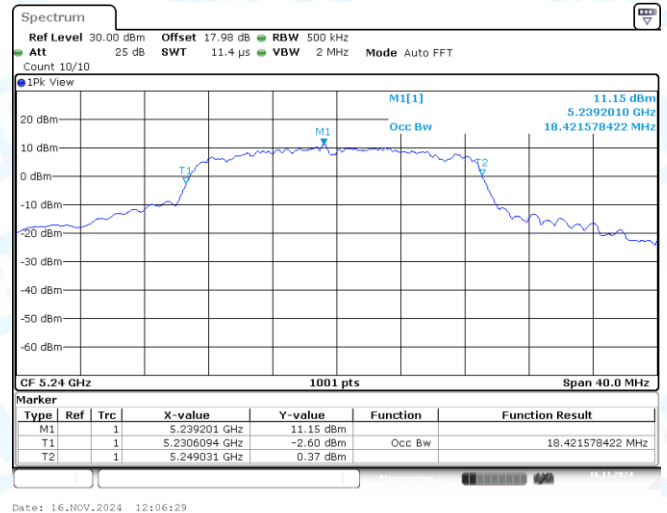
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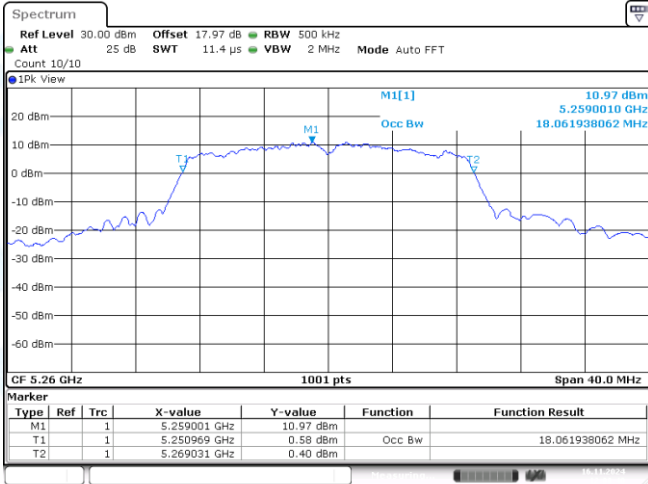
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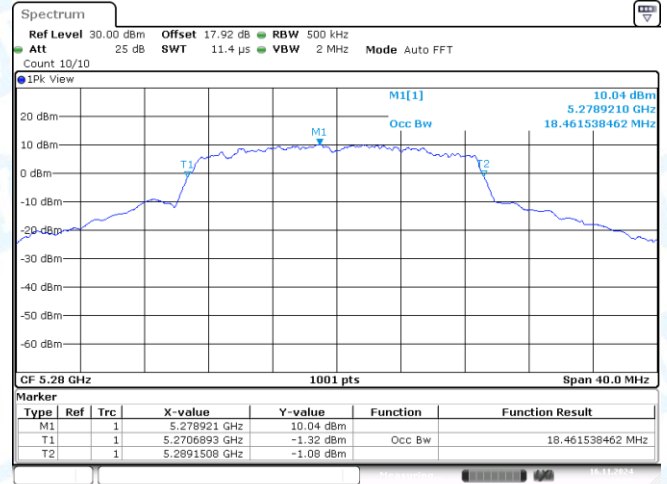
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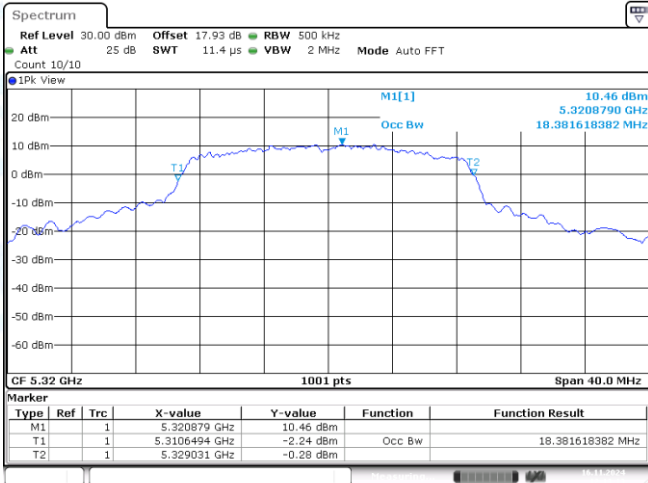
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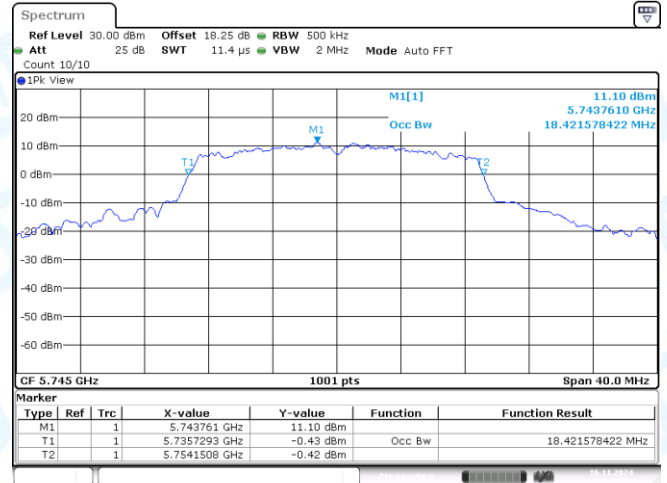
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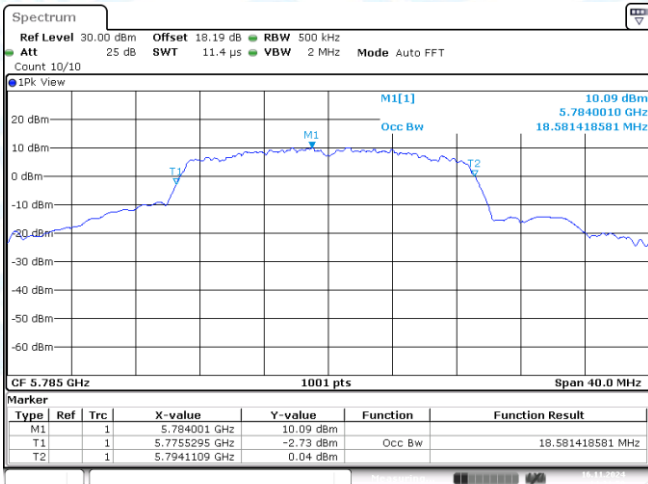
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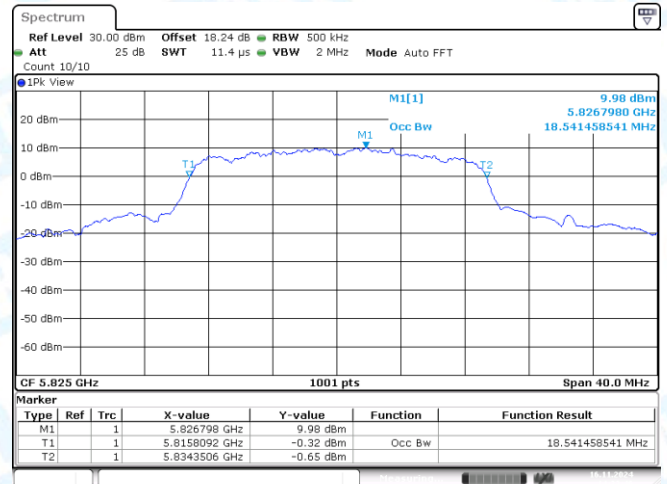
11N20SISO-Ant1-5320



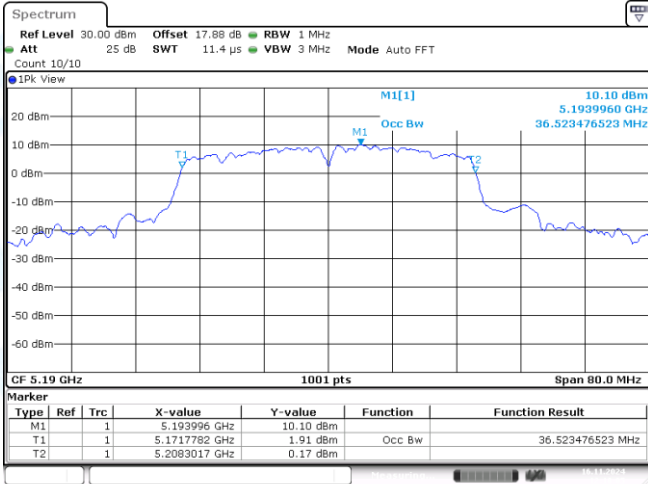
11N20SISO-Ant1-5745



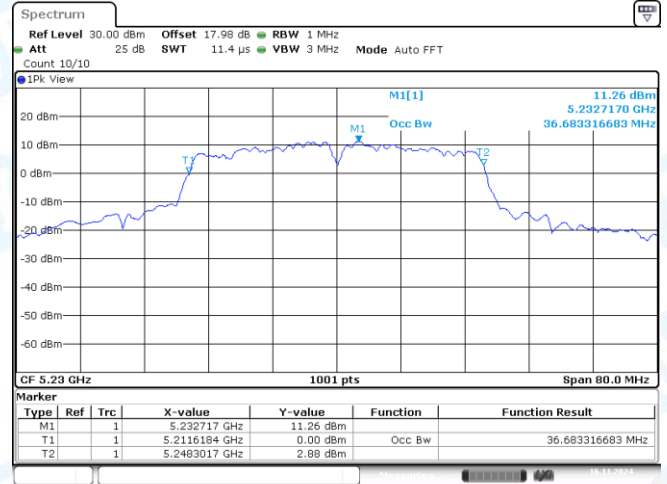
11N20SISO-Ant1-5785



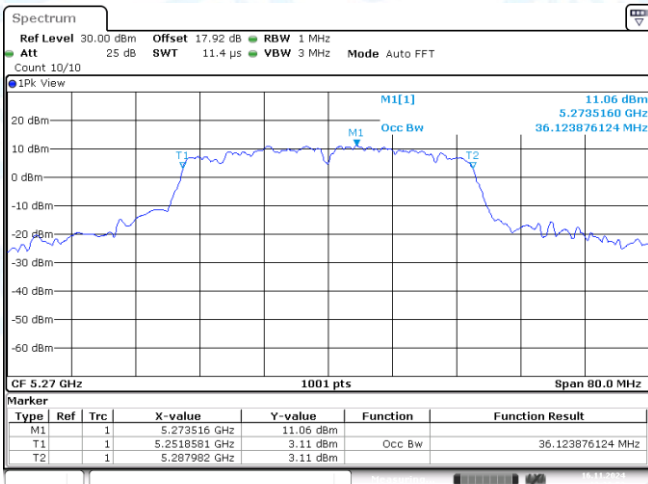
11N20SISO-Ant1-5825



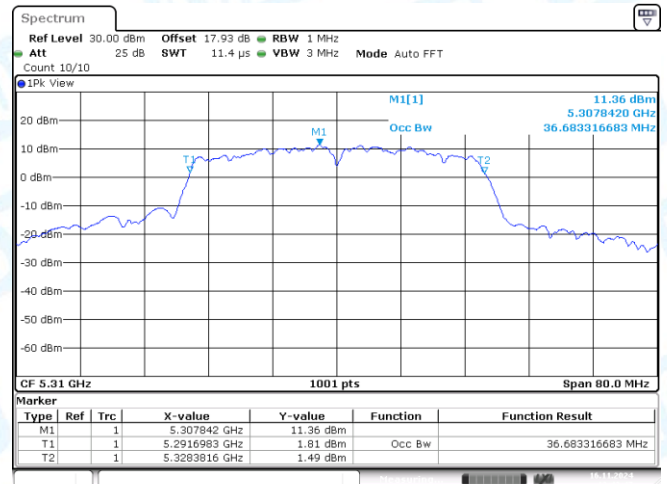
11N40SISO-Ant1-5190



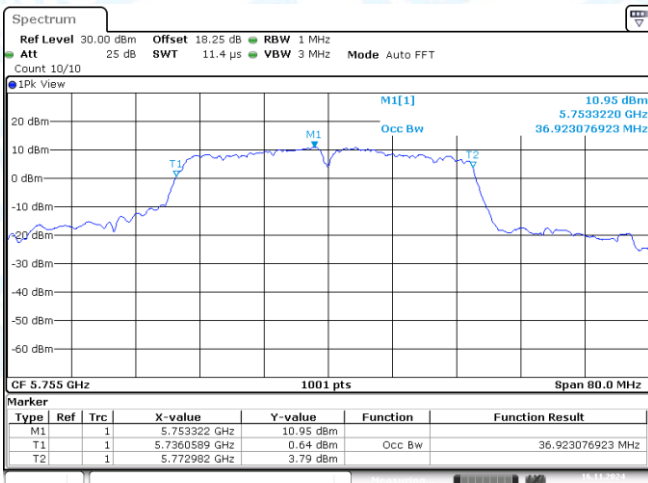
11N40SISO-Ant1-5230



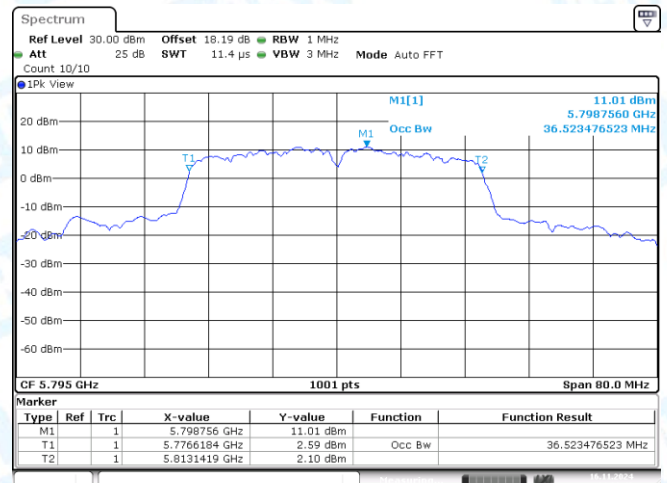
11N40SISO-Ant1-5270



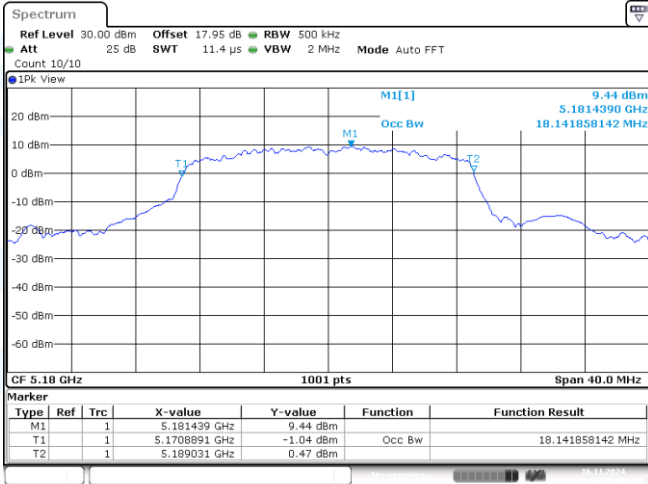
11N40SISO-Ant1-5310



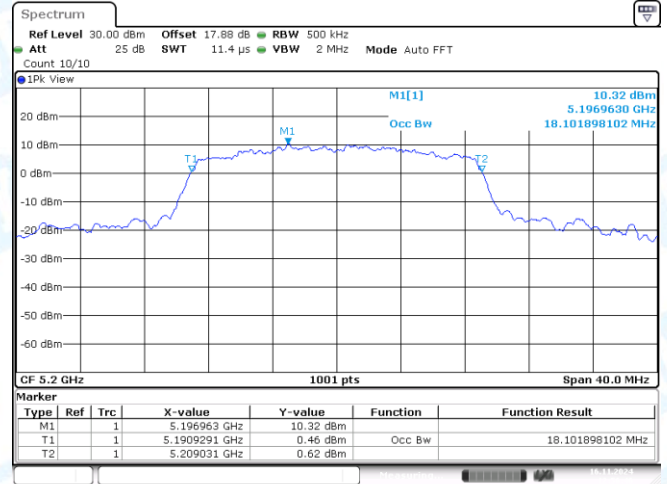
11N40SISO-Ant1-5755



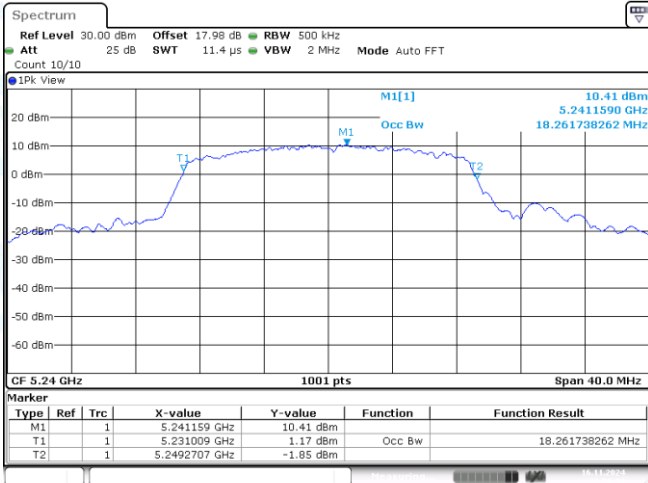
11N40SISO-Ant1-5795



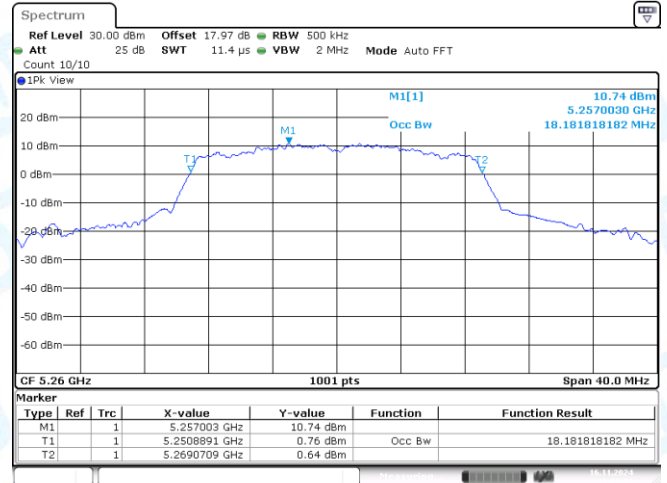
11AC20SISO-Ant1-5180



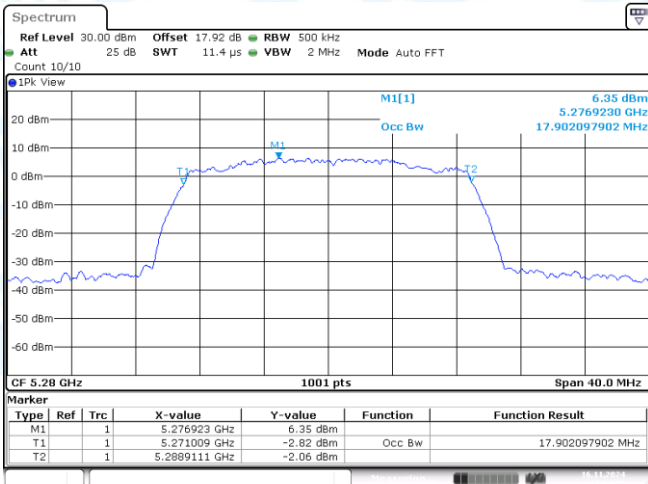
11AC20SISO-Ant1-5200



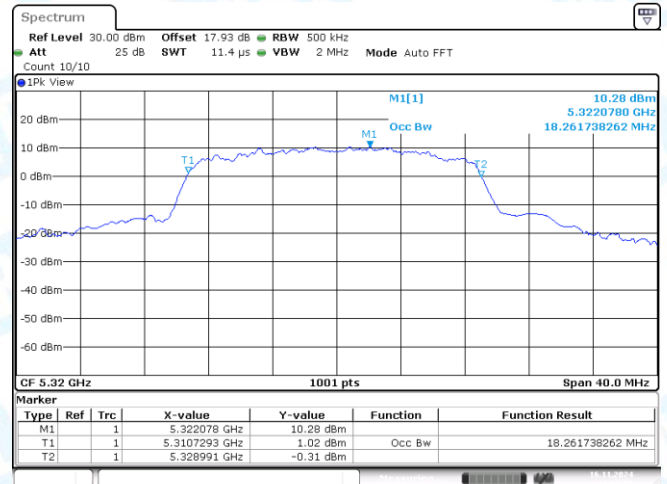
11AC20SISO-Ant1-5240



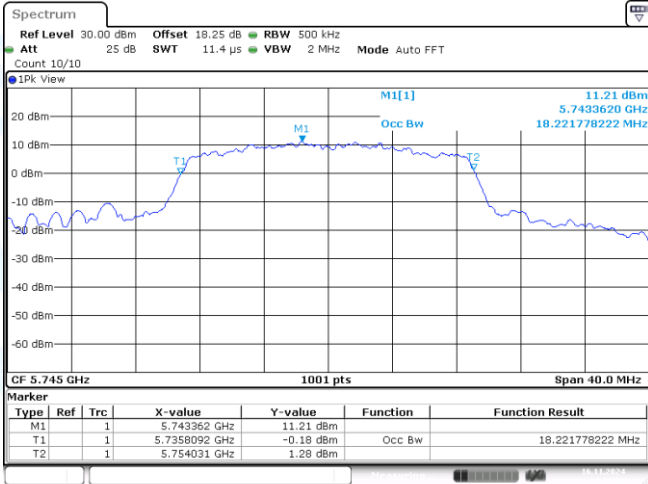
11AC20SISO-Ant1-5260



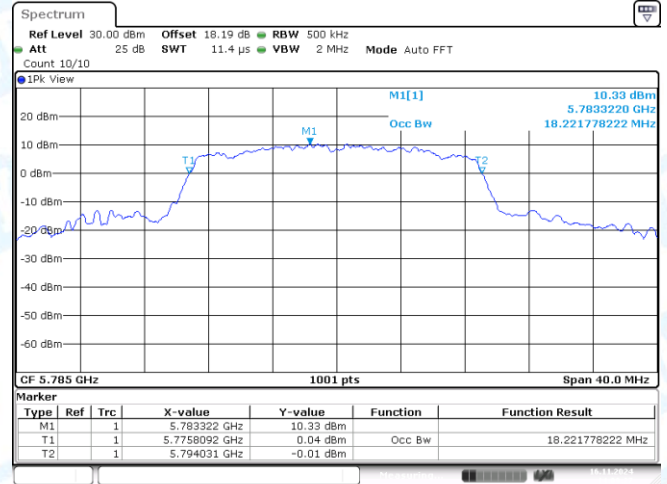
11AC20SISO-Ant1-5280



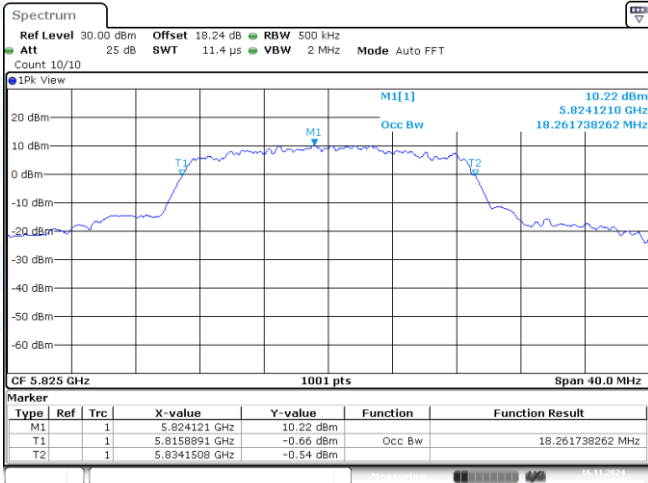
11AC20SISO-Ant1-5320



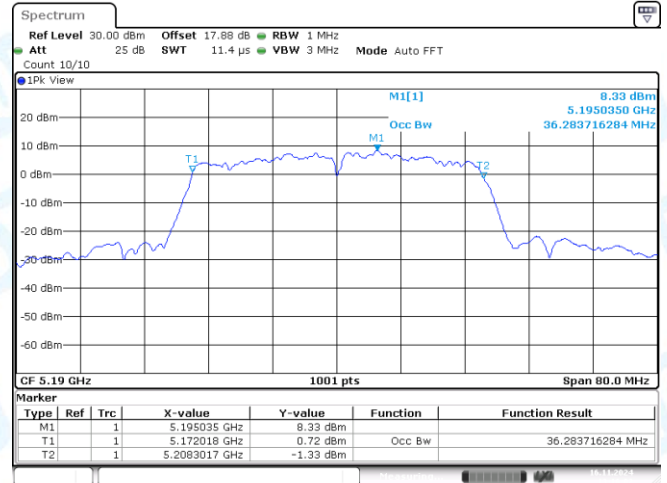
11AC20SISO-Ant1-5745



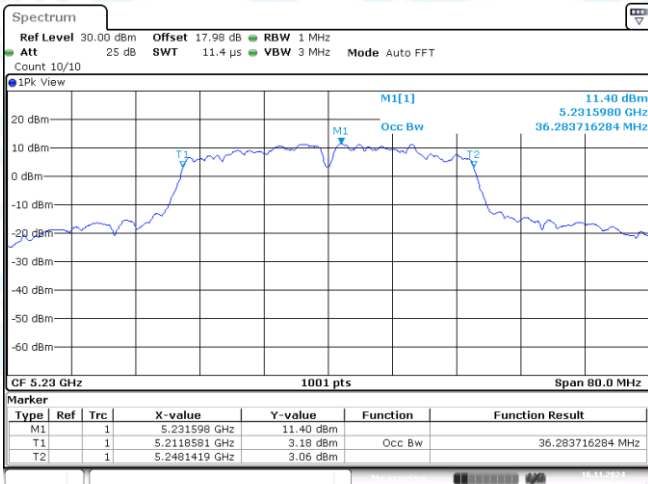
11AC20SISO-Ant1-5785



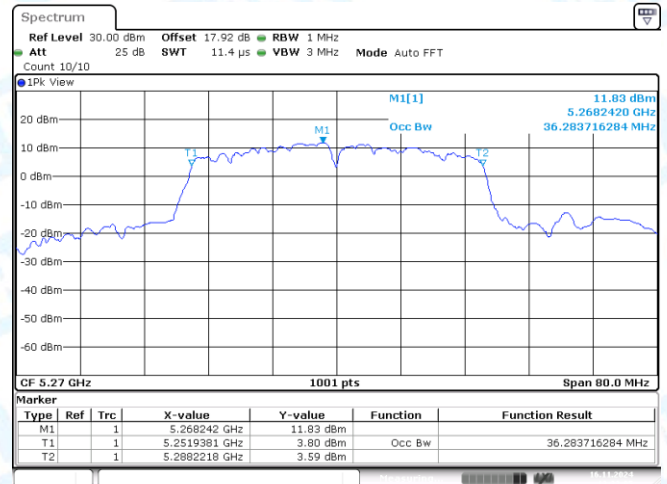
11AC20SISO-Ant1-5825



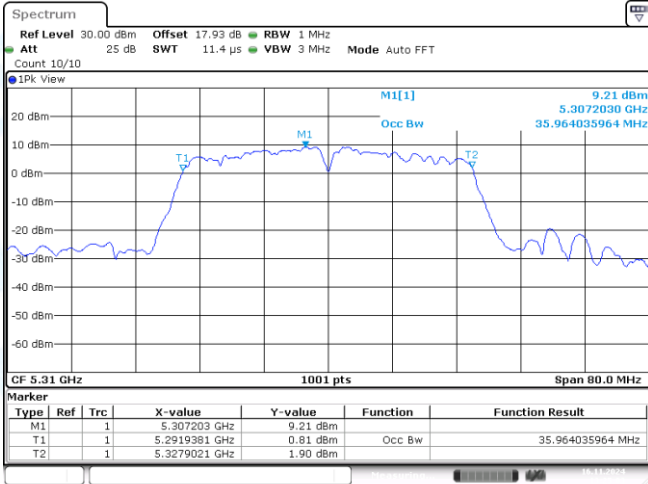
11AC40SISO-Ant1-5190



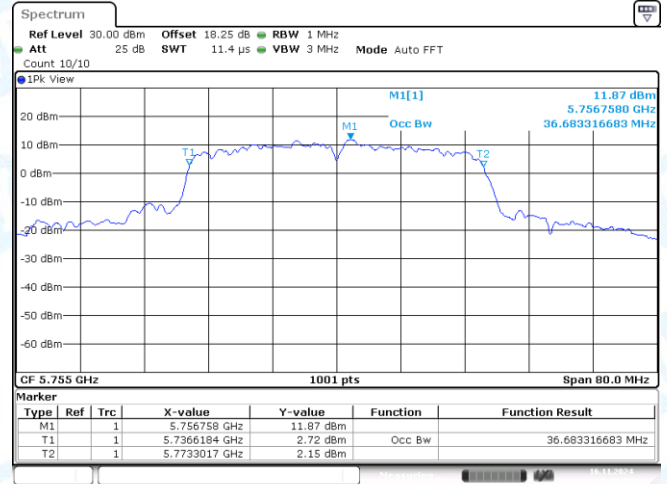
11AC40SISO-Ant1-5230



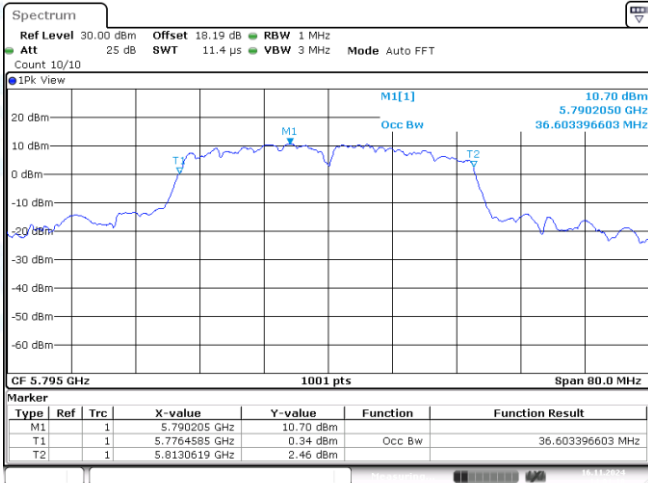
11AC40SISO-Ant1-5270



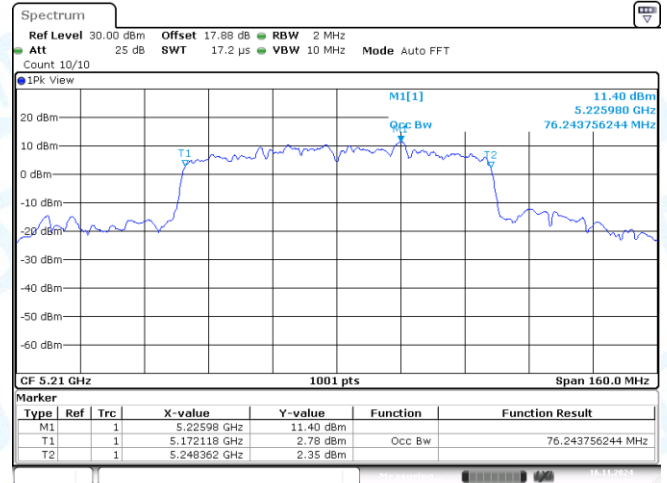
11AC40SISO-Ant1-5310



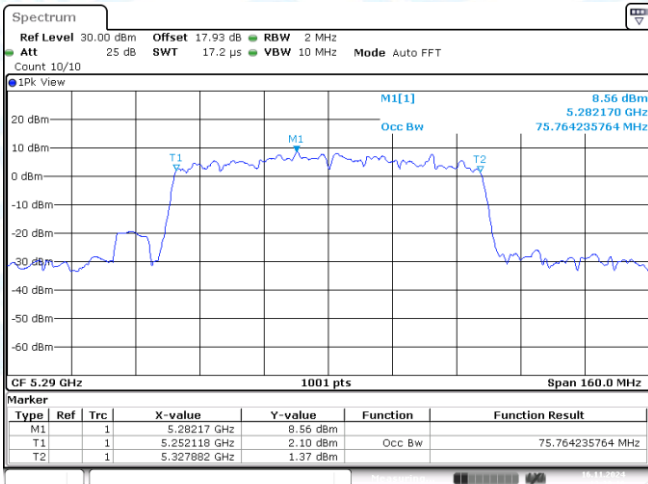
11AC40SISO-Ant1-5755



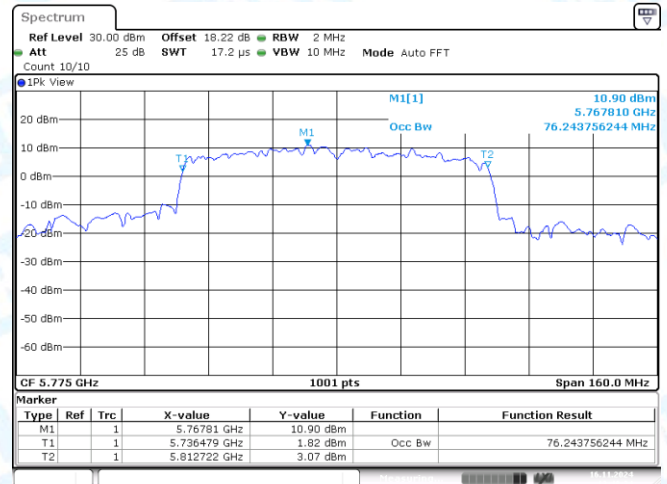
11AC40SISO-Ant1-5795



11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290



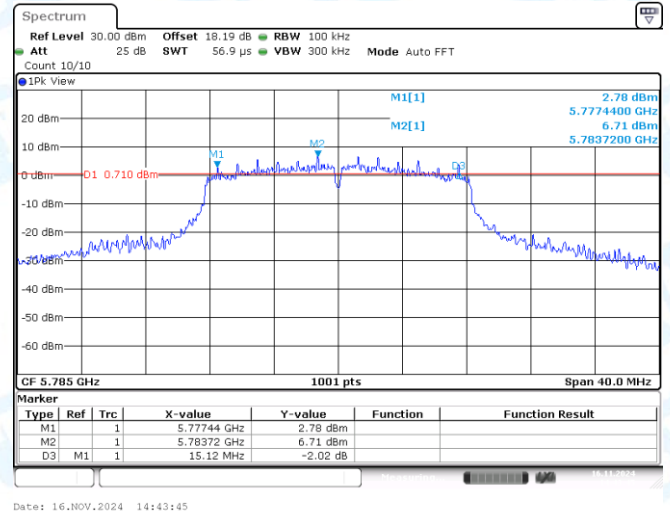
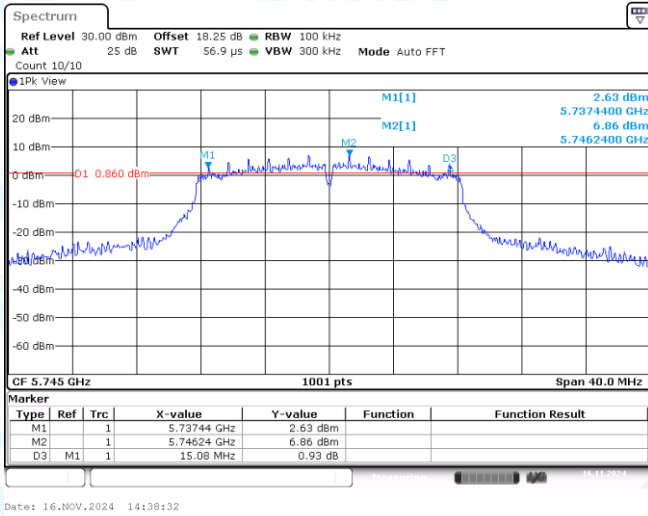
11AC80SISO-Ant1-5775

### 3: Min emission bandwidth

#### 3.1 Test Result-B4

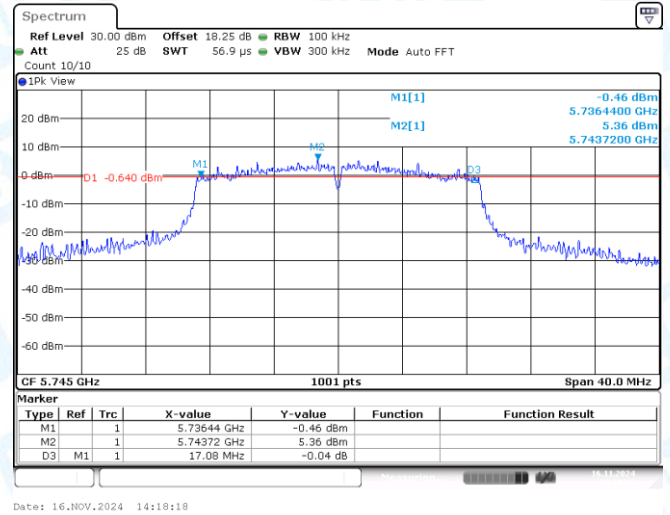
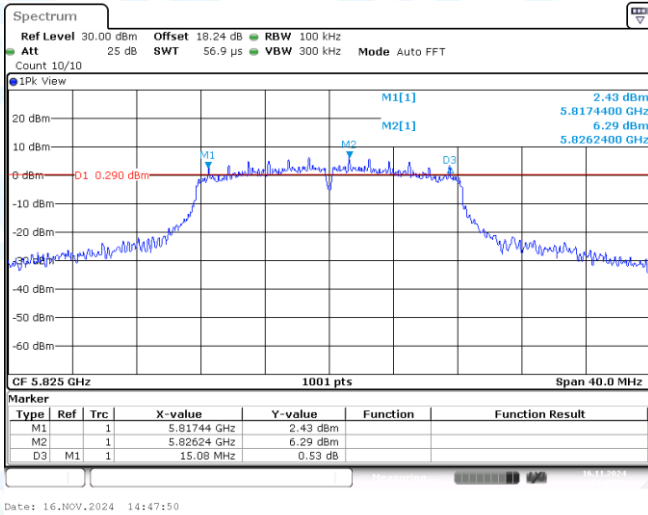
| TestMode   | Antenna | Frequency[MHz] | 6dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|---------------|---------|---------|------------|---------|
| 11A        | Ant1    | 5745           | 15.08         | 5737.44 | 5752.52 | 0.5        | PASS    |
| 11A        | Ant1    | 5785           | 15.12         | 5777.44 | 5792.56 | 0.5        | PASS    |
| 11A        | Ant1    | 5825           | 15.08         | 5817.44 | 5832.52 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5745           | 17.08         | 5736.44 | 5753.52 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5785           | 13.92         | 5778.64 | 5792.56 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 5825           | 15.12         | 5817.44 | 5832.56 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5755           | 35.12         | 5737.40 | 5772.52 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 5795           | 35.12         | 5777.40 | 5812.52 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5745           | 16.64         | 5736.84 | 5753.48 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5785           | 13.88         | 5778.64 | 5792.52 | 0.5        | PASS    |
| 11AC20SISO | Ant1    | 5825           | 15.12         | 5817.40 | 5832.52 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5755           | 30.08         | 5742.44 | 5772.52 | 0.5        | PASS    |
| 11AC40SISO | Ant1    | 5795           | 35.12         | 5777.40 | 5812.52 | 0.5        | PASS    |
| 11AC80SISO | Ant1    | 5775           | 75.20         | 5737.40 | 5812.60 | 0.5        | PASS    |

### 3.2 Test Graphs-B4



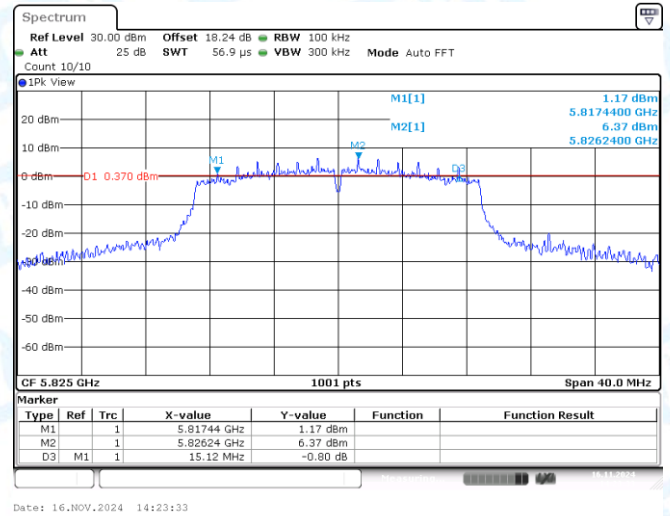
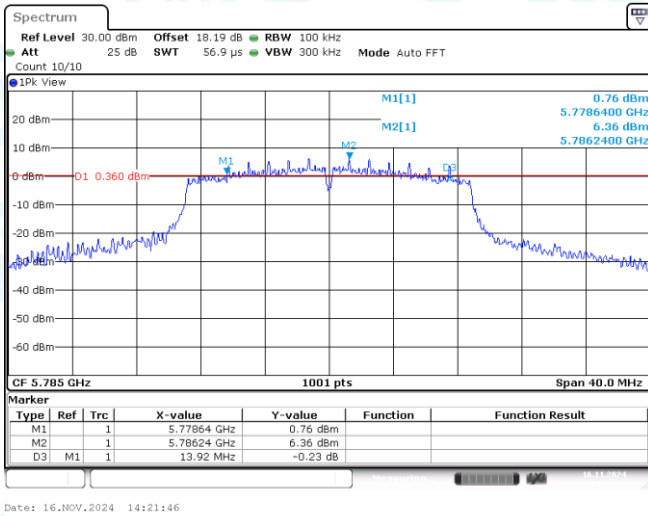
11A-Ant1-5745-PASS

11A-Ant1-5785-PASS



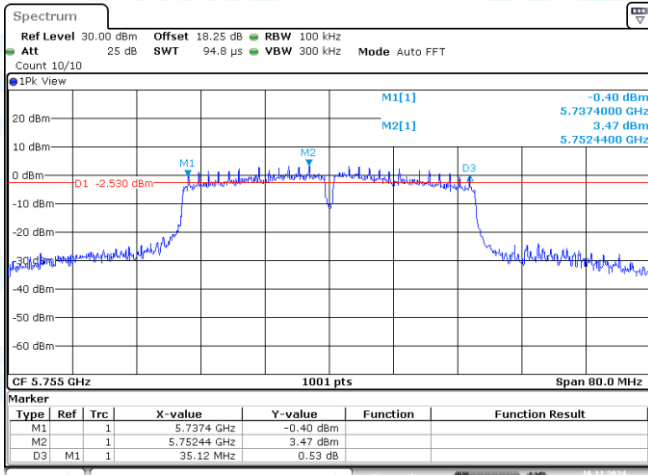
11A-Ant1-5825-PASS

11N20SISO-Ant1-5745-PASS



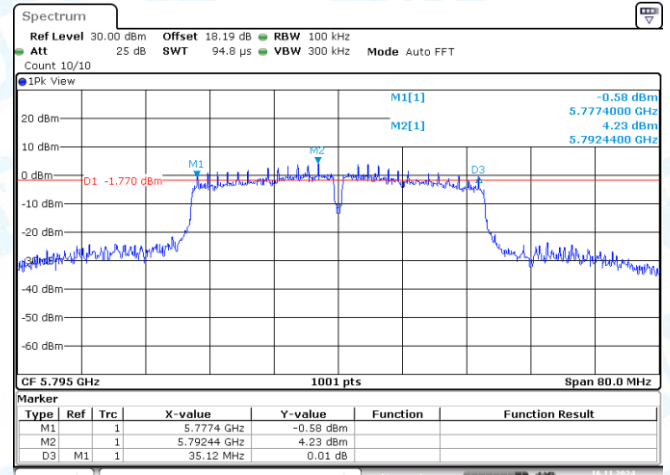
11N20SISO-Ant1-5785-PASS

11N20SISO-Ant1-5825-PASS



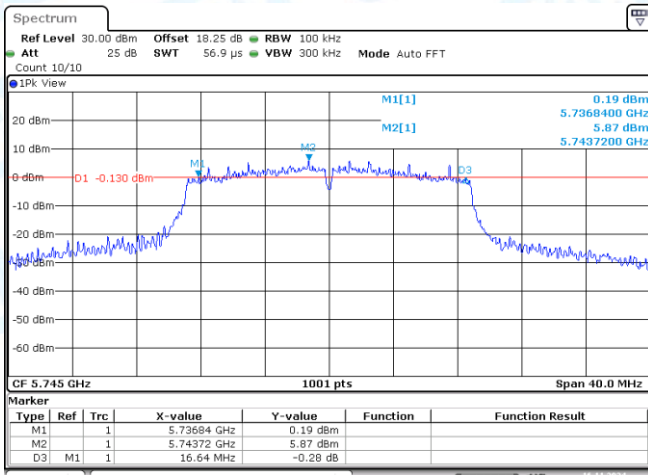
Date: 16.NOV.2024 14:26:50

11N40SISO-Ant1-5755-PASS



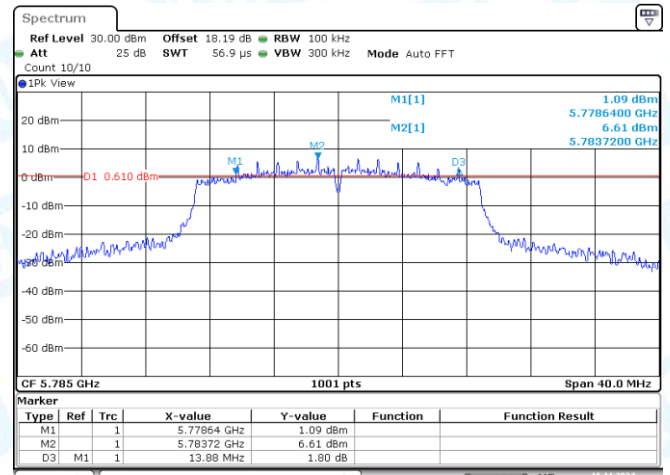
Date: 16.NOV.2024 14:32:35

11N40SISO-Ant1-5795-PASS



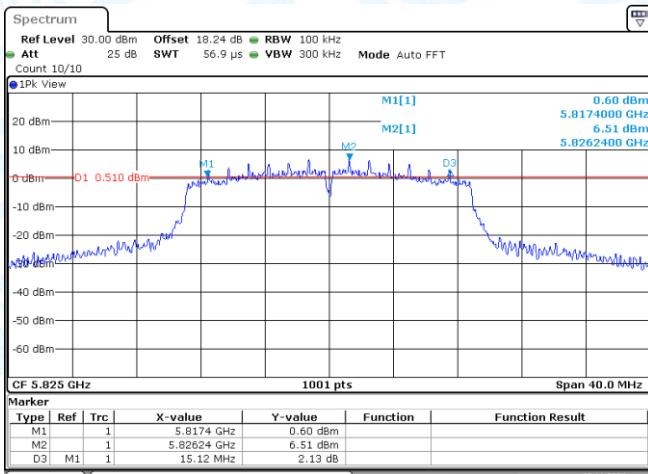
Date: 16.NOV.2024 14:06:06

11AC20SISO-Ant1-5745-PASS



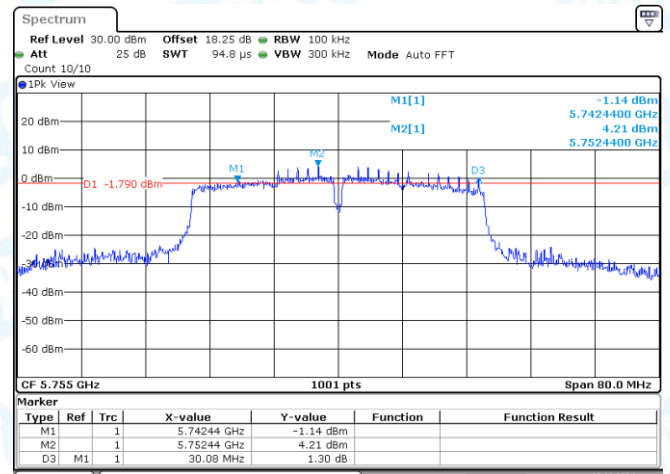
Date: 16.NOV.2024 14:09:15

11AC20SISO-Ant1-5785-PASS



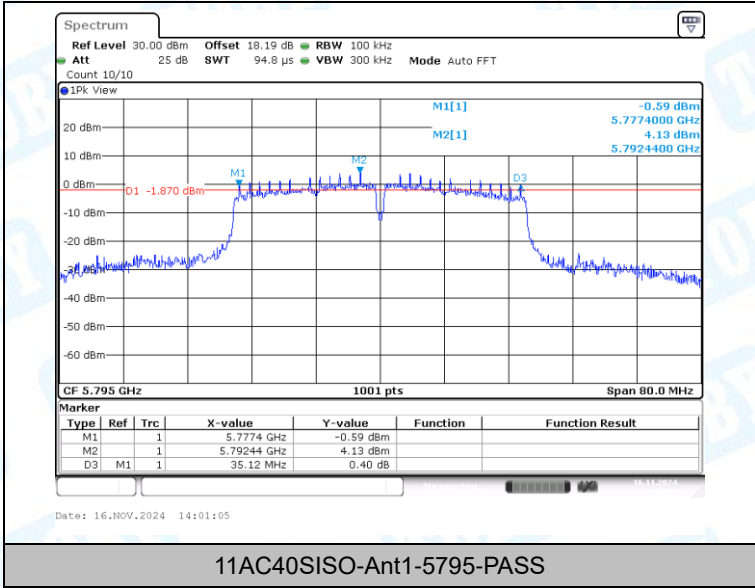
Date: 16.NOV.2024 14:12:10

11AC20SISO-Ant1-5825-PASS

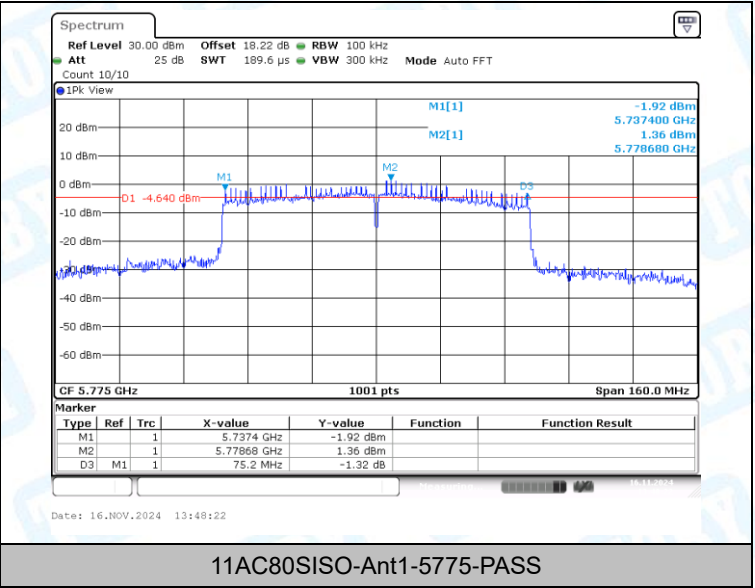


Date: 16.NOV.2024 13:56:46

11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS

## 4: Duty Cycle

### 4.1 Test Result

| TestMode   | Antenna | Frequency [MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | DC Factory | 1/T [kHz] |
|------------|---------|-----------------|----------------------------|--------------------------|----------------|------------|-----------|
| 11A        | Ant1    | 5180            | 1.39                       | 1.44                     | 96.53          | 0.15       | 0.72      |
| 11A        | Ant1    | 5200            | 1.40                       | 1.44                     | 97.22          | 0.12       | 0.71      |
| 11A        | Ant1    | 5240            | 1.39                       | 1.44                     | 96.53          | 0.15       | 0.72      |
| 11A        | Ant1    | 5260            | 1.39                       | 1.43                     | 97.20          | 0.12       | 0.72      |
| 11A        | Ant1    | 5280            | 1.39                       | 1.43                     | 97.20          | 0.12       | 0.72      |
| 11A        | Ant1    | 5320            | 1.39                       | 1.44                     | 96.53          | 0.15       | 0.72      |
| 11A        | Ant1    | 5745            | 1.40                       | 1.44                     | 97.22          | 0.12       | 0.71      |
| 11A        | Ant1    | 5785            | 1.39                       | 1.44                     | 96.53          | 0.15       | 0.72      |
| 11A        | Ant1    | 5825            | 1.39                       | 1.44                     | 96.53          | 0.15       | 0.72      |
| 11N20SISO  | Ant1    | 5180            | 1.30                       | 1.34                     | 97.01          | 0.13       | 0.77      |
| 11N20SISO  | Ant1    | 5200            | 1.30                       | 1.35                     | 96.30          | 0.16       | 0.77      |
| 11N20SISO  | Ant1    | 5240            | 1.31                       | 1.35                     | 97.04          | 0.13       | 0.76      |
| 11N20SISO  | Ant1    | 5260            | 1.30                       | 1.34                     | 97.01          | 0.13       | 0.77      |
| 11N20SISO  | Ant1    | 5280            | 1.30                       | 1.34                     | 97.01          | 0.13       | 0.77      |
| 11N20SISO  | Ant1    | 5320            | 1.30                       | 1.34                     | 97.01          | 0.13       | 0.77      |
| 11N20SISO  | Ant1    | 5745            | 1.31                       | 1.35                     | 97.04          | 0.13       | 0.76      |
| 11N20SISO  | Ant1    | 5785            | 1.31                       | 1.35                     | 97.04          | 0.13       | 0.76      |
| 11N20SISO  | Ant1    | 5825            | 1.30                       | 1.35                     | 96.30          | 0.16       | 0.77      |
| 11N40SISO  | Ant1    | 5190            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11N40SISO  | Ant1    | 5230            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11N40SISO  | Ant1    | 5270            | 0.65                       | 0.70                     | 92.86          | 0.32       | 1.54      |
| 11N40SISO  | Ant1    | 5310            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11N40SISO  | Ant1    | 5755            | 0.64                       | 0.69                     | 92.75          | 0.33       | 1.56      |
| 11N40SISO  | Ant1    | 5795            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11AC20SISO | Ant1    | 5180            | 1.31                       | 1.36                     | 96.32          | 0.16       | 0.76      |
| 11AC20SISO | Ant1    | 5200            | 1.32                       | 1.36                     | 97.06          | 0.13       | 0.76      |
| 11AC20SISO | Ant1    | 5240            | 1.31                       | 1.36                     | 96.32          | 0.16       | 0.76      |
| 11AC20SISO | Ant1    | 5260            | 1.31                       | 1.36                     | 96.32          | 0.16       | 0.76      |
| 11AC20SISO | Ant1    | 5280            | 1.32                       | 1.36                     | 97.06          | 0.13       | 0.76      |
| 11AC20SISO | Ant1    | 5320            | 1.31                       | 1.36                     | 96.32          | 0.16       | 0.76      |
| 11AC20SISO | Ant1    | 5745            | 1.31                       | 1.35                     | 97.04          | 0.13       | 0.76      |
| 11AC20SISO | Ant1    | 5785            | 1.31                       | 1.36                     | 96.32          | 0.16       | 0.76      |
| 11AC20SISO | Ant1    | 5825            | 1.31                       | 1.35                     | 97.04          | 0.13       | 0.76      |
| 11AC40SISO | Ant1    | 5190            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11AC40SISO | Ant1    | 5230            | 0.65                       | 0.70                     | 92.86          | 0.32       | 1.54      |
| 11AC40SISO | Ant1    | 5270            | 0.65                       | 0.69                     | 94.20          | 0.26       | 1.54      |
| 11AC40SISO | Ant1    | 5310            | 0.65                       | 0.70                     | 92.86          | 0.32       | 1.54      |
| 11AC40SISO | Ant1    | 5755            | 0.66                       | 0.70                     | 94.29          | 0.26       | 1.52      |
| 11AC40SISO | Ant1    | 5795            | 0.66                       | 0.70                     | 94.29          | 0.26       | 1.52      |
| 11AC80SISO | Ant1    | 5210            | 0.33                       | 0.37                     | 89.19          | 0.50       | 3.03      |

|            |      |      |      |      |       |      |      |
|------------|------|------|------|------|-------|------|------|
| 11AC80SISO | Ant1 | 5290 | 0.33 | 0.37 | 89.19 | 0.50 | 3.03 |
| 11AC80SISO | Ant1 | 5775 | 0.32 | 0.37 | 86.49 | 0.63 | 3.13 |

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factory= $10 \times \log_{10}(1/\text{Duty Cycle})$

3,  $1/T=1/\text{Transmission Duration}$