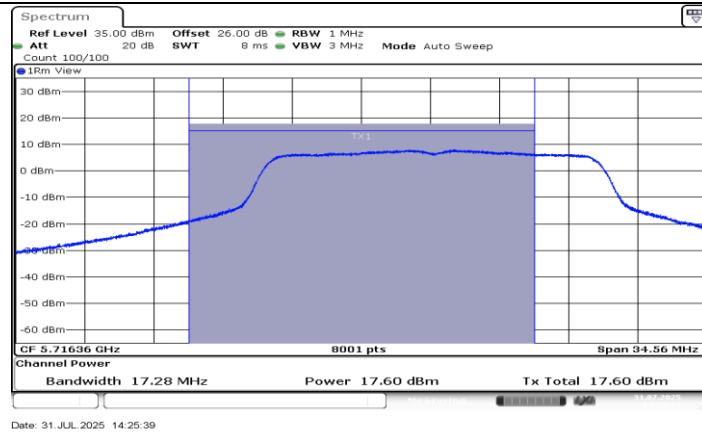
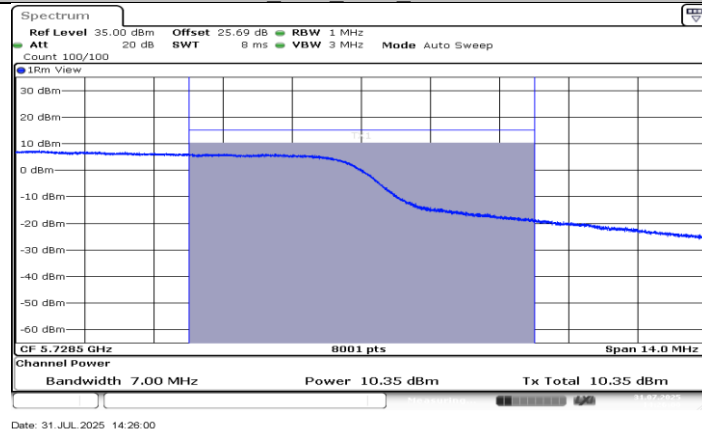


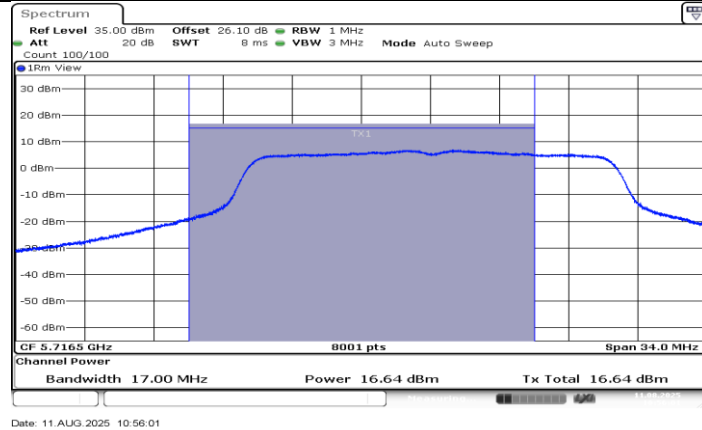
## 11.4.2. Test Graphs



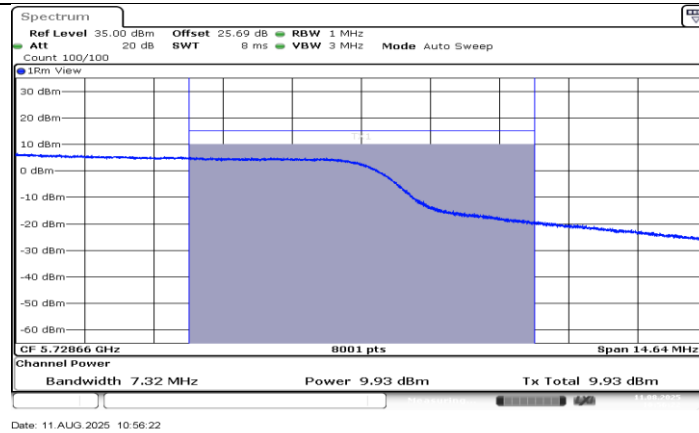
11A Ant1 5720 UNII-2C



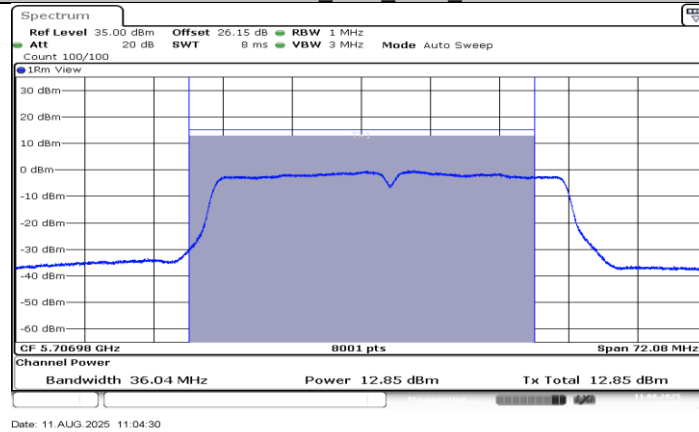
11A Ant1 5720 UNII-3



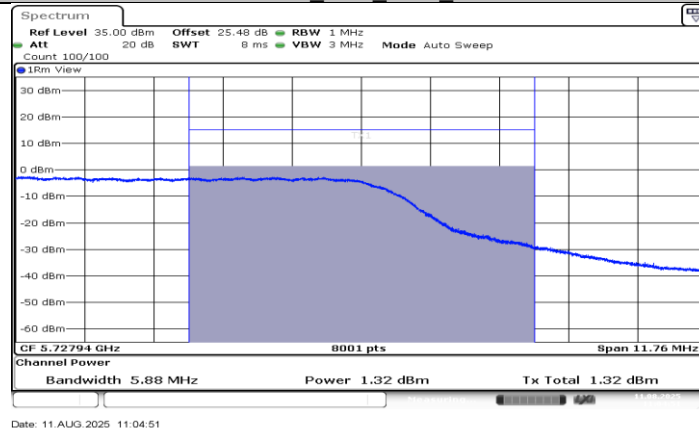
11N20SISO Ant1 5720 UNII-2C



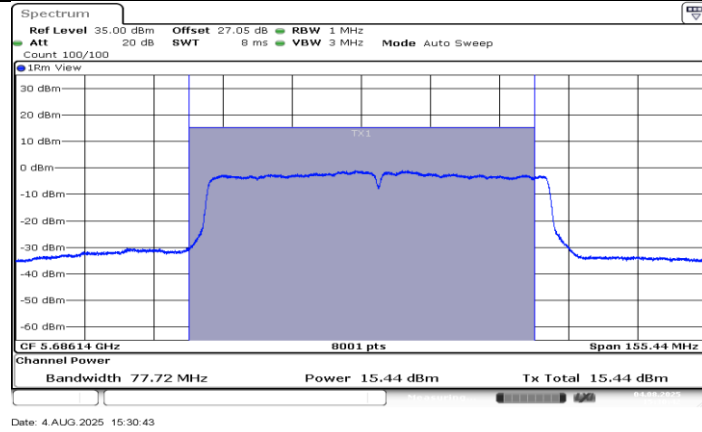
11N20SISO\_Ant1\_5720\_UNII-3



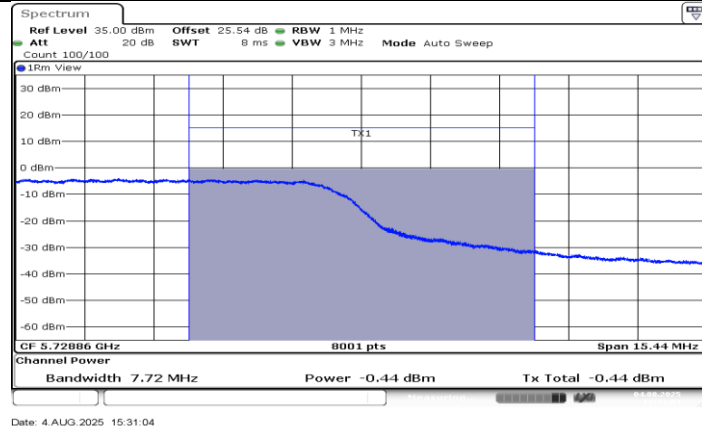
11N40SISO\_Ant1\_5710\_UNII-2C



11N40SISO\_Ant1\_5710\_UNII-3



11AC80SISO\_Ant1\_5690\_UNII-2C



11AC80SISO\_Ant1\_5690\_UNII-3

## 11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

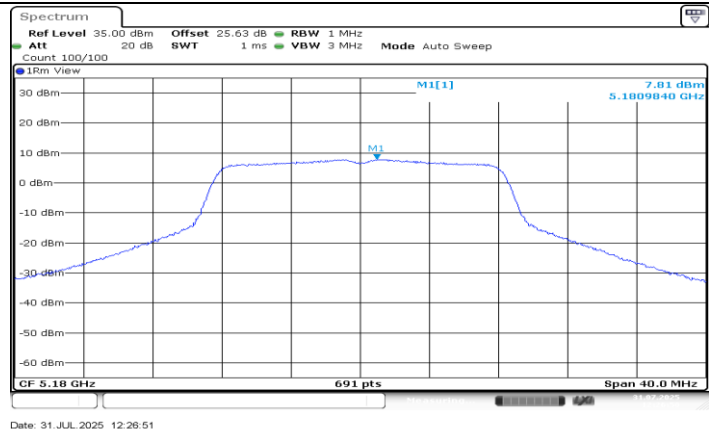
### 11.5.1. Test Result

| Test Mode  | Antenna | Frequency[MHz] | Power [dBm/MHz] | Limit [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|------------|---------|----------------|-----------------|-----------------|----------------|-----------------|---------|
| 11A        | Ant1    | 5180           | 7.81            | ≤11.00          | 8.43           | ≤10.00          | PASS    |
|            |         | 5200           | 8.00            | ≤11.00          | 8.62           | ≤10.00          | PASS    |
|            |         | 5240           | 7.45            | ≤11.00          | 8.07           | ≤10.00          | PASS    |
|            |         | 5260           | 7.42            | ≤11.00          | 8.04           | ---             | PASS    |
|            |         | 5280           | 7.39            | ≤11.00          | 8.01           | ---             | PASS    |
|            |         | 5320           | 7.69            | ≤11.00          | 8.31           | ---             | PASS    |
|            |         | 5500           | 7.36            | ≤11.00          | 7.98           | ---             | PASS    |
|            |         | 5580           | 7.33            | ≤11.00          | 7.95           | ---             | PASS    |
|            |         | 5700           | 7.17            | ≤11.00          | 7.79           | ---             | PASS    |
|            |         | 5720_UNII-2C   | 7.47            | ≤11.00          | 8.09           | ---             | PASS    |
|            |         | 5720_UNII-3    | 2.96            | ≤30.00          | 3.58           | ---             | PASS    |
|            |         | 5745           | 5.40            | ≤30.00          | 6.02           | ---             | PASS    |
|            |         | 5785           | 5.04            | ≤30.00          | 5.66           | ---             | PASS    |
|            |         | 5825           | 4.32            | ≤30.00          | 4.94           | ---             | PASS    |
| 11N20SISO  | Ant1    | 5180           | 7.67            | ≤11.00          | 8.29           | ≤10.00          | PASS    |
|            |         | 5200           | 7.63            | ≤11.00          | 8.25           | ≤10.00          | PASS    |
|            |         | 5240           | 7.02            | ≤11.00          | 7.64           | ≤10.00          | PASS    |
|            |         | 5260           | 7.34            | ≤11.00          | 7.96           | ---             | PASS    |
|            |         | 5280           | 7.40            | ≤11.00          | 8.02           | ---             | PASS    |
|            |         | 5320           | 7.24            | ≤11.00          | 7.86           | ---             | PASS    |
|            |         | 5500           | 5.10            | ≤11.00          | 5.72           | ---             | PASS    |
|            |         | 5580           | 5.66            | ≤11.00          | 6.28           | ---             | PASS    |
|            |         | 5700           | 5.53            | ≤11.00          | 6.15           | ---             | PASS    |
|            |         | 5720_UNII-2C   | 6.41            | ≤11.00          | 7.03           | ---             | PASS    |
|            |         | 5720_UNII-3    | 2.48            | ≤30.00          | 3.10           | ---             | PASS    |
|            |         | 5745           | 4.53            | ≤30.00          | 5.15           | ---             | PASS    |
|            |         | 5785           | 4.37            | ≤30.00          | 4.99           | ---             | PASS    |
|            |         | 5825           | 3.99            | ≤30.00          | 4.61           | ---             | PASS    |
| 11N40SISO  | Ant1    | 5190           | 1.92            | ≤11.00          | 2.54           | ≤10.00          | PASS    |
|            |         | 5230           | 1.93            | ≤11.00          | 2.55           | ≤10.00          | PASS    |
|            |         | 5270           | 1.54            | ≤11.00          | 2.16           | ---             | PASS    |
|            |         | 5310           | 1.88            | ≤11.00          | 2.50           | ---             | PASS    |
|            |         | 5510           | -1.54           | ≤11.00          | -0.92          | ---             | PASS    |
|            |         | 5550           | -0.94           | ≤11.00          | -0.32          | ---             | PASS    |
|            |         | 5670           | -0.70           | ≤11.00          | -0.08          | ---             | PASS    |
|            |         | 5710_UNII-2C   | -0.91           | ≤11.00          | -0.29          | ---             | PASS    |
|            |         | 5710_UNII-3    | -5.32           | ≤30.00          | -4.70          | ---             | PASS    |
|            |         | 5755           | -0.82           | ≤30.00          | -0.20          | ---             | PASS    |
|            |         | 5795           | -1.45           | ≤30.00          | -0.83          | ---             | PASS    |
|            |         | 5210           | -3.72           | ≤11.00          | -3.10          | ≤10.00          | PASS    |
|            |         | 5290           | -1.47           | ≤11.00          | -0.85          | ---             | PASS    |
|            |         | 5530           | -1.35           | ≤11.00          | -0.73          | ---             | PASS    |
| 11AC80SISO | Ant1    | 5610           | -1.27           | ≤11.00          | -0.65          | ---             | PASS    |
|            |         | 5690_UNII-2C   | -1.44           | ≤11.00          | -0.82          | ---             | PASS    |
|            |         | 5690_UNII-3    | -6.62           | ≤30.00          | -6.00          | ---             | PASS    |
|            |         | 5775           | -3.86           | ≤30.00          | -3.24          | ---             | PASS    |

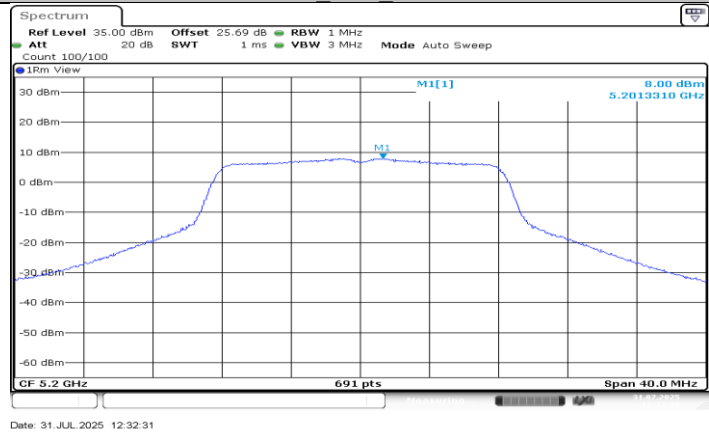
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

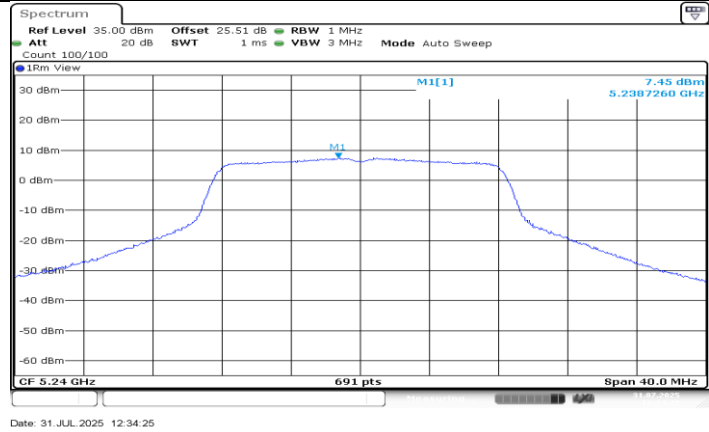
### 11.5.2. Test Graphs



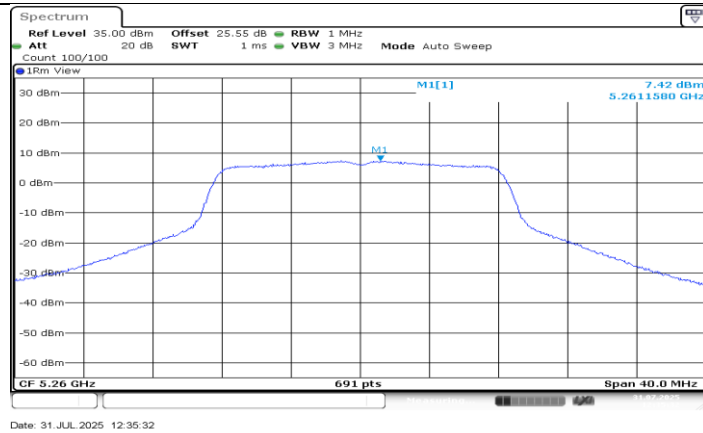
11A Ant1 5180



11A Ant1 5200



11A Ant1 5240



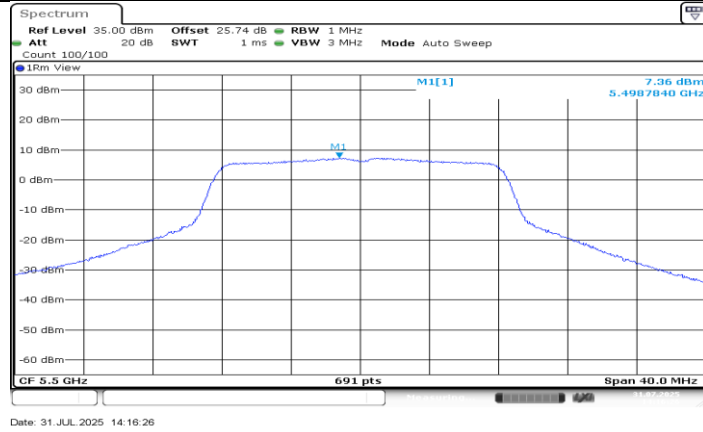
11A\_Ant1\_5260



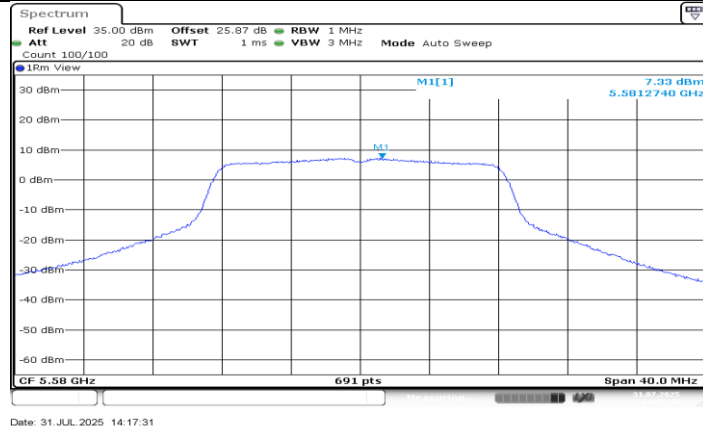
11A\_Ant1\_5280



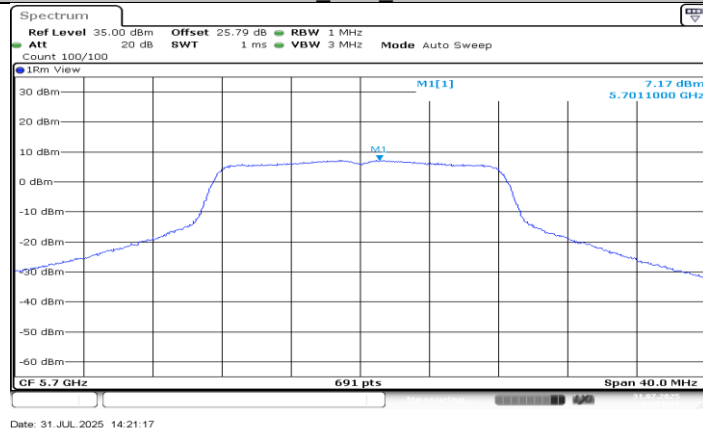
11A\_Ant1\_5320



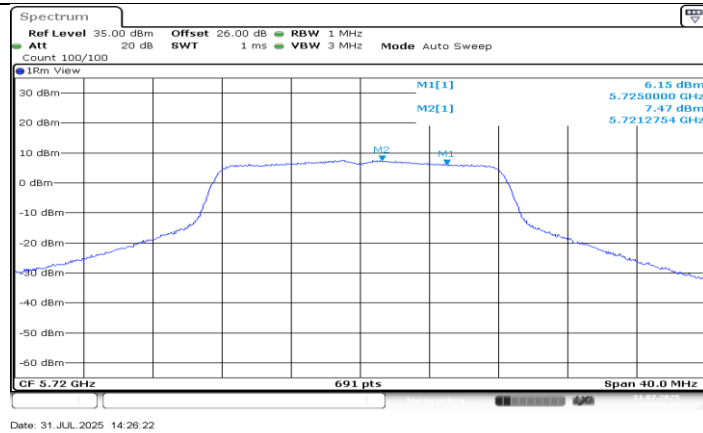
11A\_Ant1\_5500



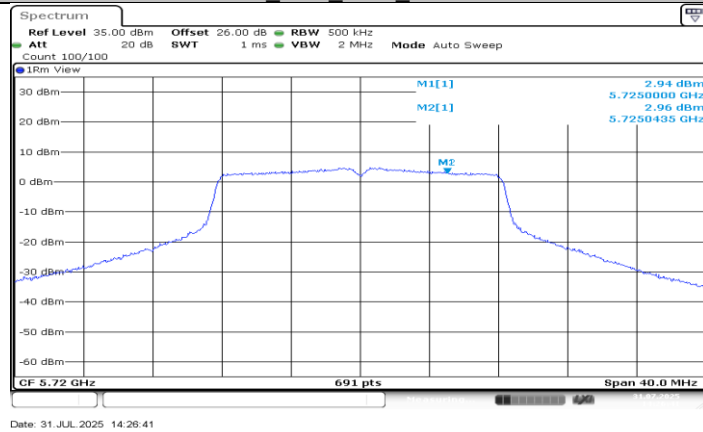
11A\_Ant1\_5580



11A\_Ant1\_5700



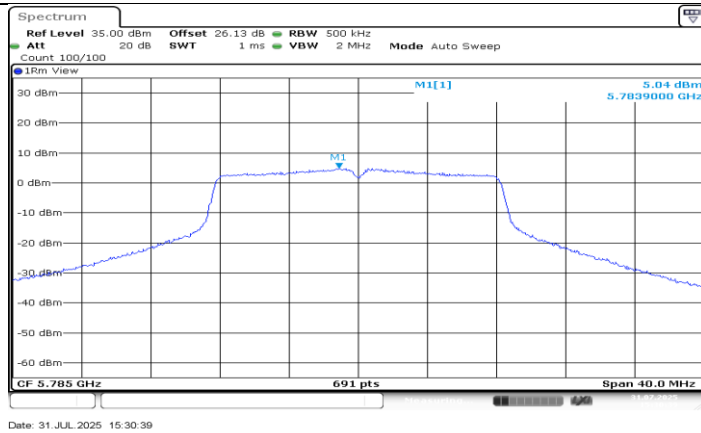
11A\_Ant1\_5720\_UNII-2C



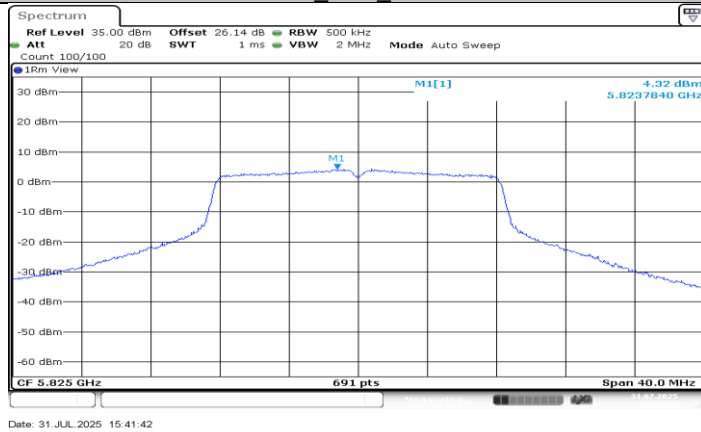
11A\_Ant1\_5720\_UNII-3



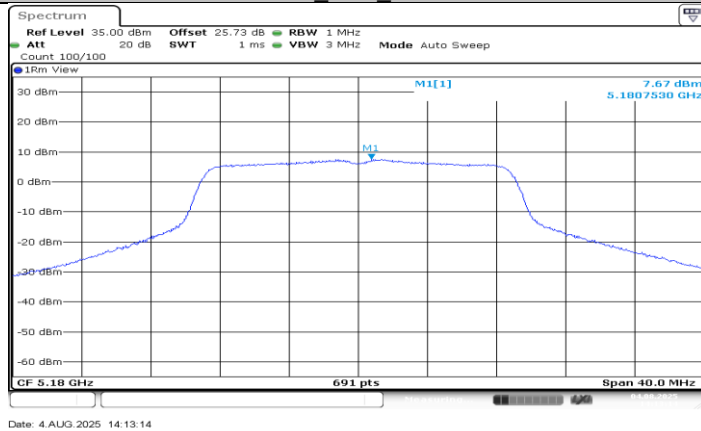
11A\_Ant1\_5745



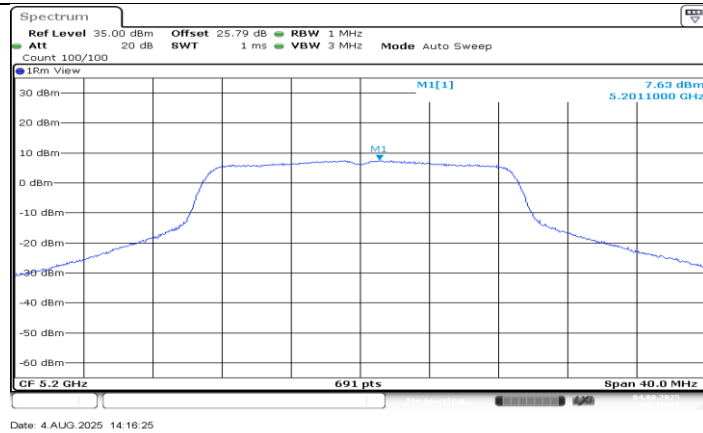
11A\_Ant1\_5785



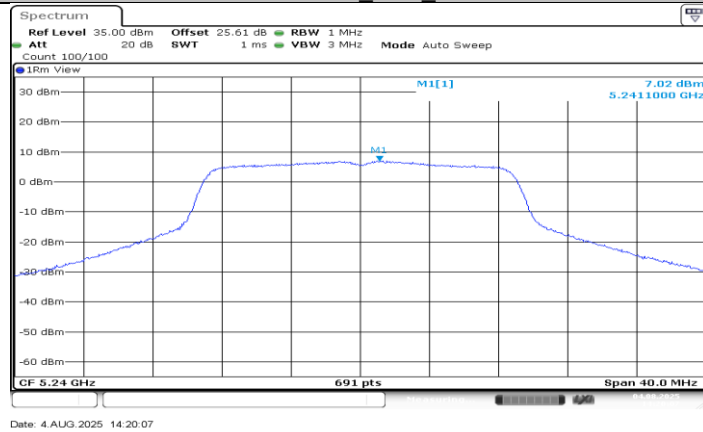
11A\_Ant1\_5825



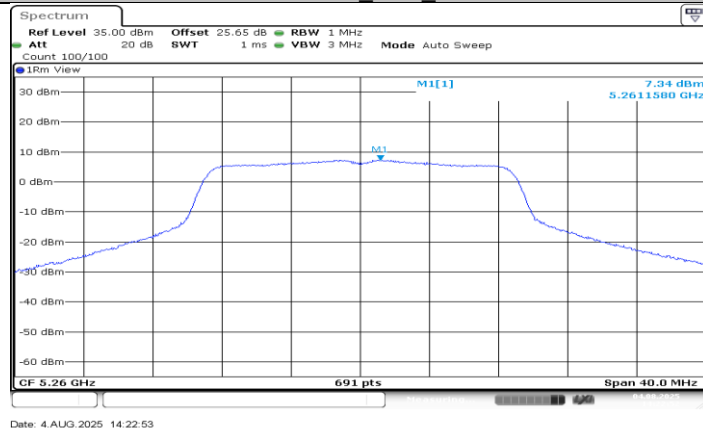
11N20SISO\_Ant1\_5180



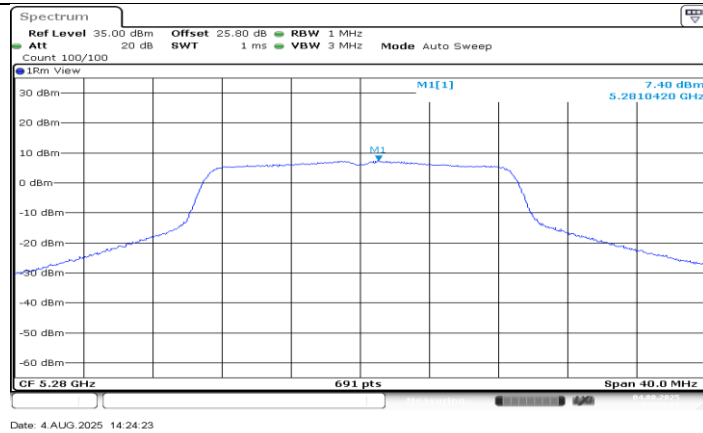
11N20SISO\_Ant1\_5200



11N20SISO\_Ant1\_5240



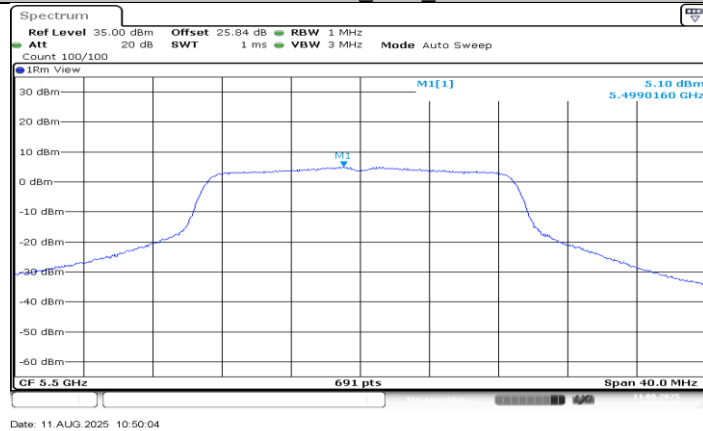
11N20SISO\_Ant1\_5260



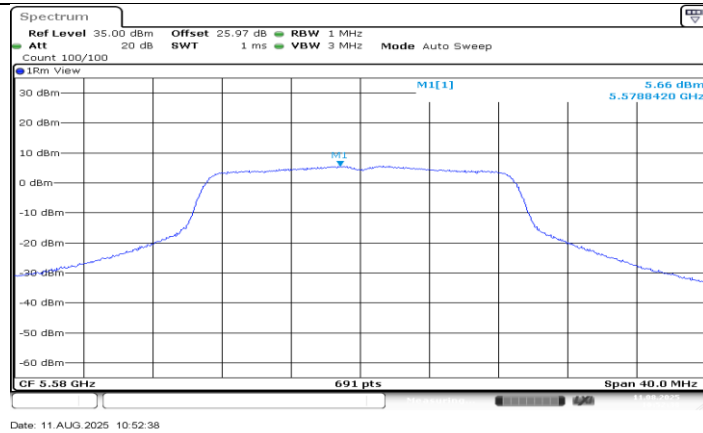
11N20SISO\_Ant1\_5280



11N20SISO\_Ant1\_5320



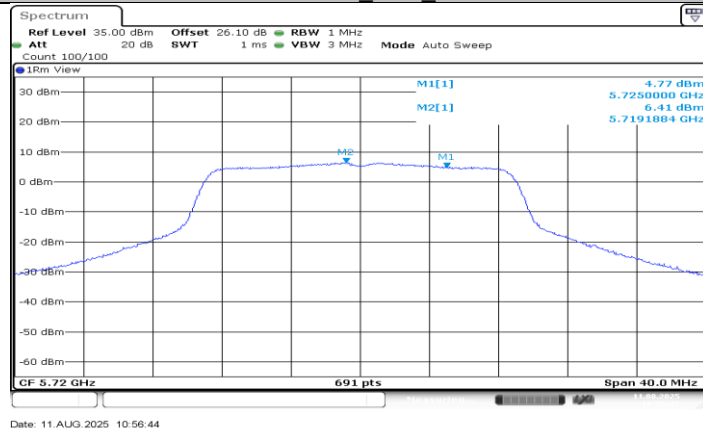
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11N20SISO\_Ant1\_5580



11N20SISO\_Ant1\_5700



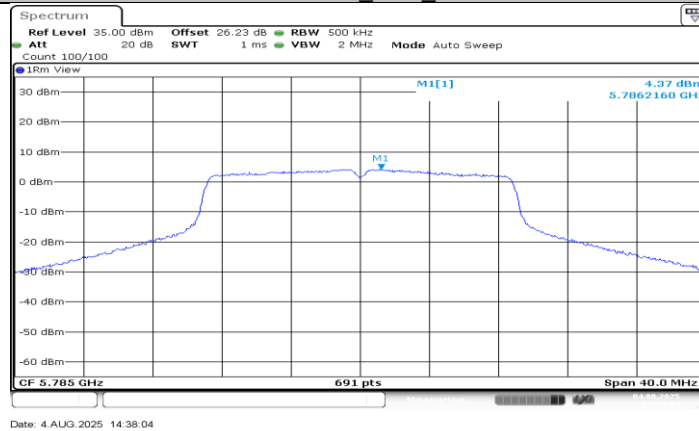
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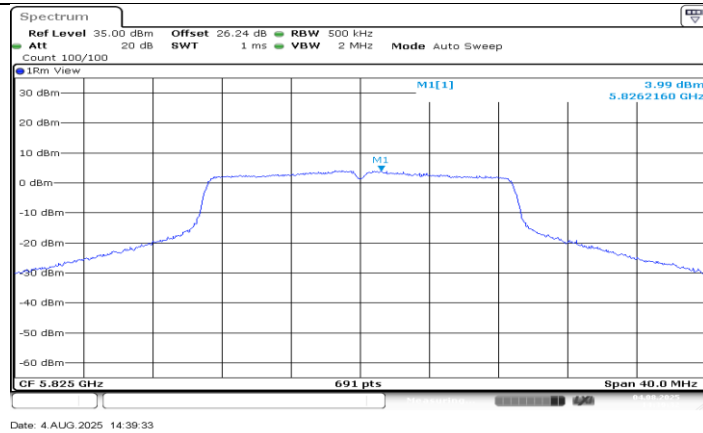
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11N20SISO\_Ant1\_5745



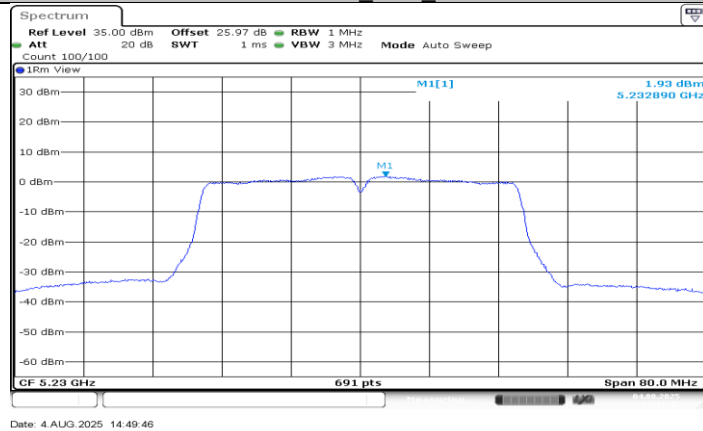
11N20SISO\_Ant1\_5785



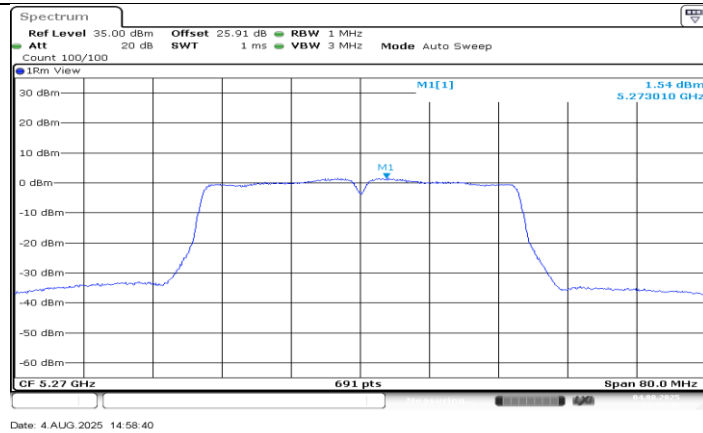
11N20SISO\_Ant1\_5825



11N40SISO\_Ant1\_5190



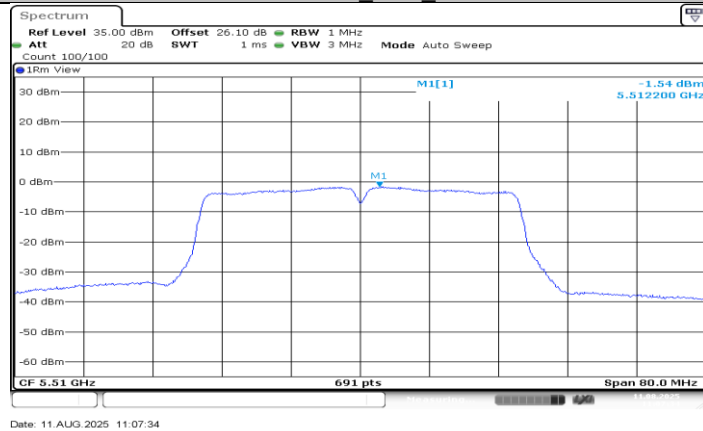
11N40SISO\_Ant1\_5230



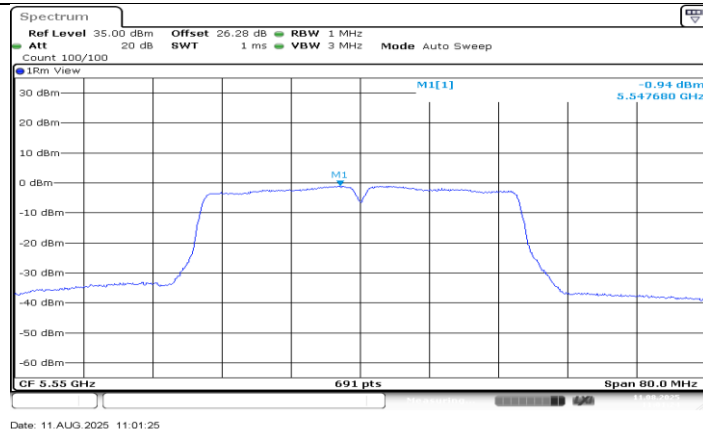
11N40SISO\_Ant1\_5270



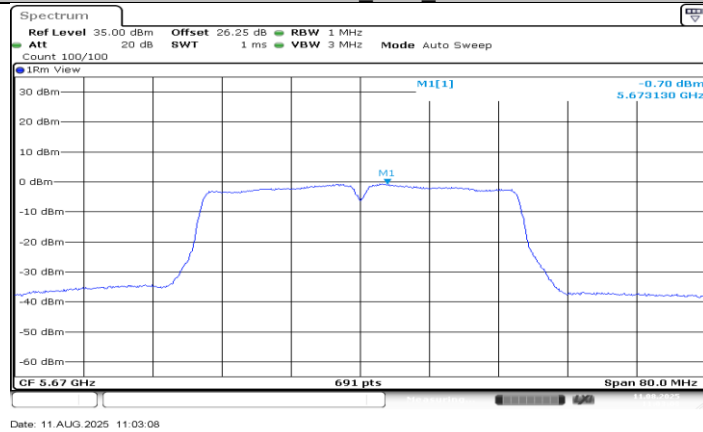
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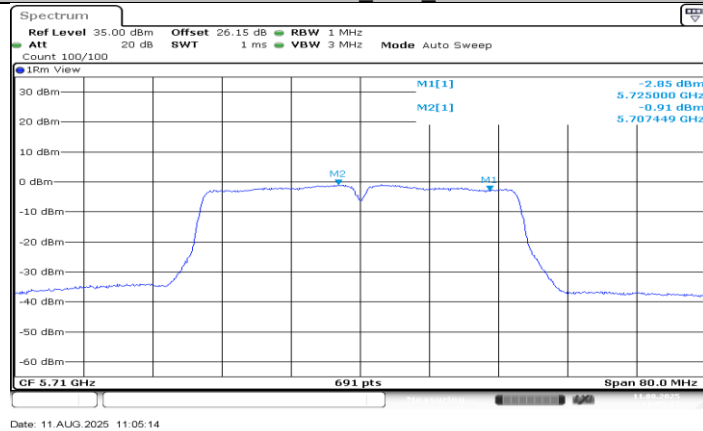
11N40SISO\_Ant1\_5510



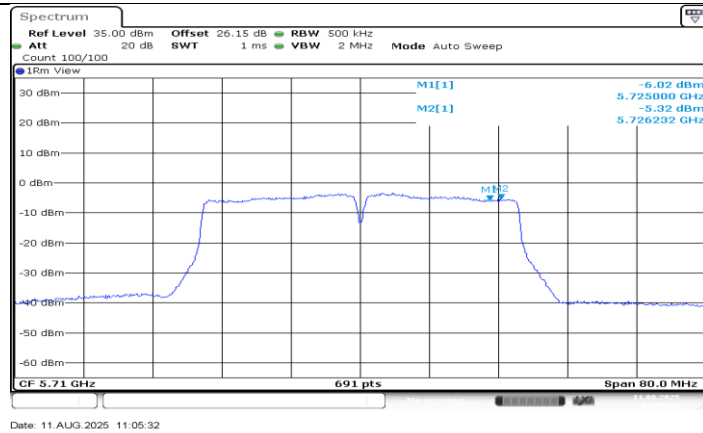
11N40SISO\_Ant1\_5550



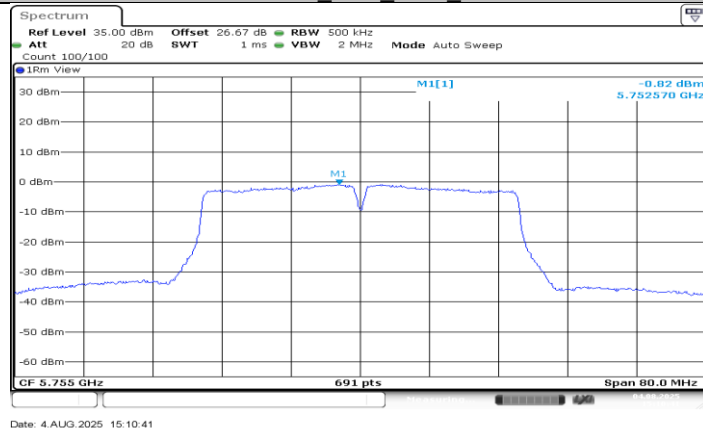
11N40SISO\_Ant1\_5670



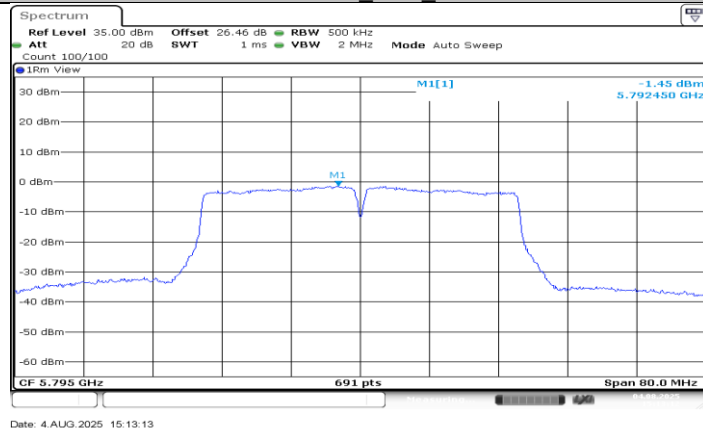
11N40SISO\_Ant1\_5710\_UNII-2C



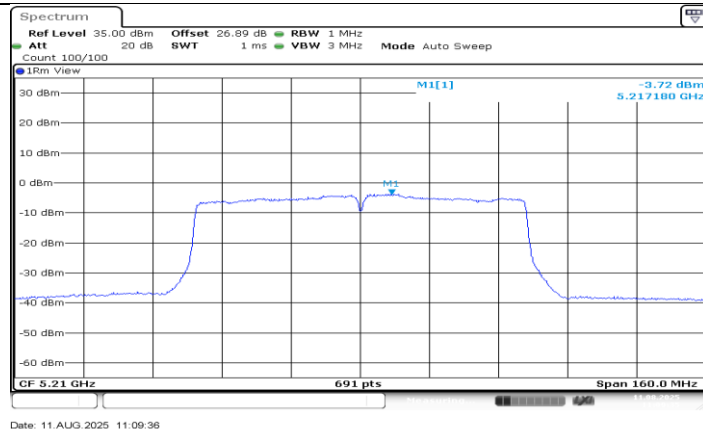
11N40SISO\_Ant1\_5710\_UNII-3



11N40SISO\_Ant1\_5755



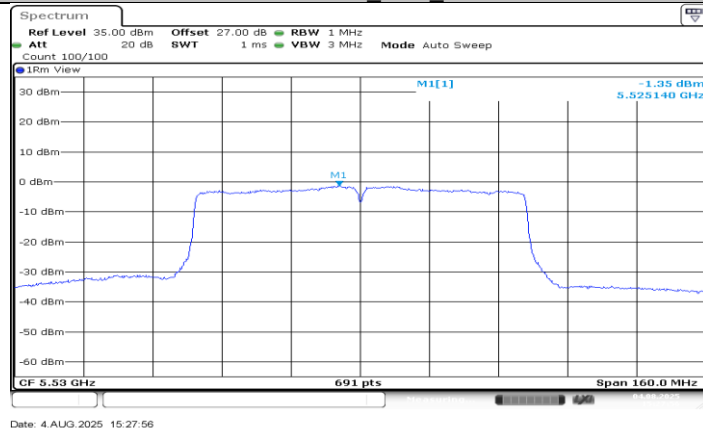
11N40SISO\_Ant1\_5795



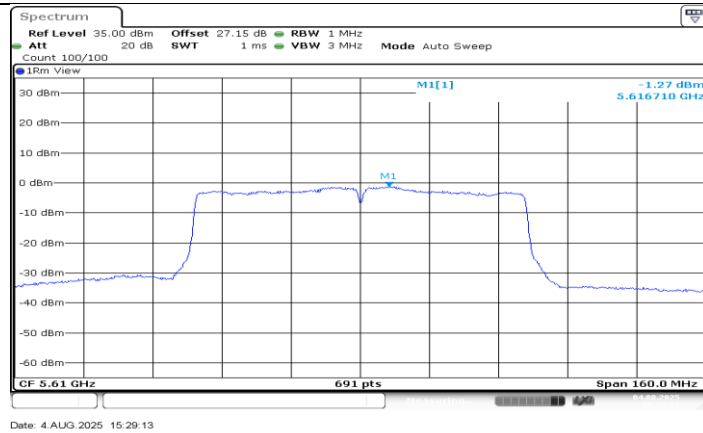
11AC80SISO\_Ant1\_5210



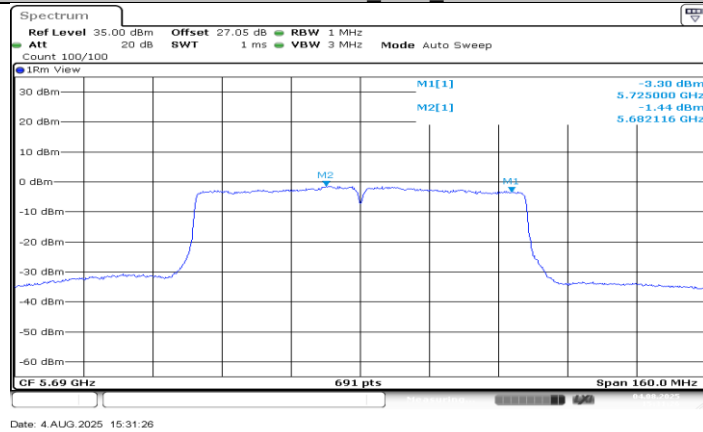
11AC80SISO\_Ant1\_5290



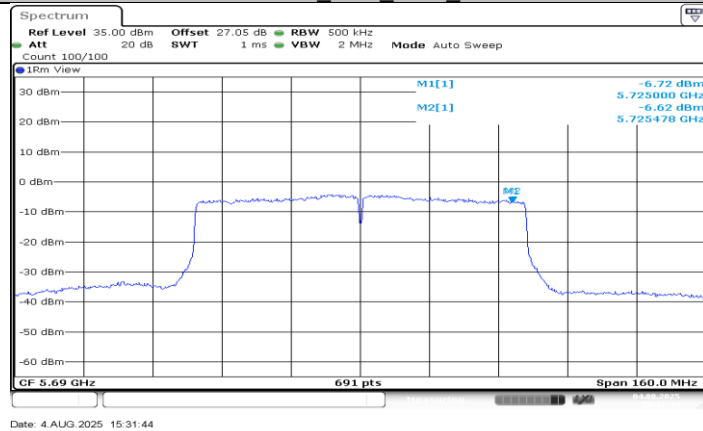
11AC80SISO\_Ant1\_5530



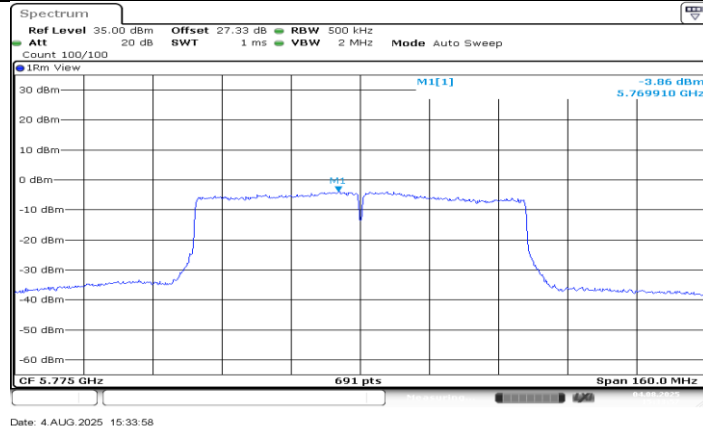
11AC80SISO\_Ant1\_5610



11AC80SISO\_Ant1\_5690\_UNII-2C



11AC80SISO\_Ant1\_5690\_UNII-3



11AC80SISO\_Ant1\_5775

## 11.6. APPENDIX F: FREQUENCY STABILITY

### 11.6.1. Test Result

| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5200MHz                 |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN                              | VL    | 5199.9821        | -3.44           | 5200.0206        | 3.96            | 5200.0045        | 0.87            | 5200.0103        | 1.99            |
| TN                              | VN    | 5199.9899        | -1.95           | 5200.0070        | 1.35            | 5200.0084        | 1.61            | 5200.0115        | 2.22            |
| TN                              | VH    | 5199.9755        | -4.71           | 5200.0149        | 2.87            | 5199.9886        | -2.18           | 5199.9910        | -1.74           |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a:5180MHz                 |       |                  |                 |                  |                 |                  |                 |                  |                 |
| Temp.                           | Volt. | 0 Minute         |                 | 2 Minute         |                 | 5 Minute         |                 | 10 Minute        |                 |
|                                 |       | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70                              | VN    | 5199.9917        | -1.59           | 5200.0231        | 4.44            | 5199.9805        | -3.76           | 5199.9901        | -1.91           |
| 60                              | VN    | 5200.0237        | 4.56            | 5200.0197        | 3.79            | 5200.0167        | 3.21            | 5200.0068        | 1.30            |
| 50                              | VN    | 5199.9958        | -0.82           | 5200.0041        | 0.80            | 5199.9915        | -1.63           | 5200.0070        | 1.35            |
| 40                              | VN    | 5199.9752        | -4.77           | 5199.9890        | -2.11           | 5200.0133        | 2.56            | 5200.0164        | 3.14            |
| 30                              | VN    | 5199.9858        | -2.73           | 5199.9986        | -0.26           | 5200.0066        | 1.26            | 5200.0002        | 0.04            |
| 20                              | VN    | 5199.9993        | -0.13           | 5200.0050        | 0.95            | 5199.9769        | -4.45           | 5200.0100        | 1.92            |
| 10                              | VN    | 5200.0079        | 1.52            | 5199.9811        | -3.64           | 5199.9876        | -2.39           | 5199.9937        | -1.22           |
| 0                               | VN    | 5200.0109        | 2.10            | 5199.9856        | -2.76           | 5200.0004        | 0.08            | 5200.0175        | 3.36            |
| -10                             | VN    | 5200.0038        | 0.73            | 5199.9918        | -1.58           | 5199.9901        | -1.91           | 5200.0211        | 4.05            |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

## 11.7. APPENDIX G: DUTY CYCLE

### 11.7.1. Test Result

| Test Mode  | On Time<br>(msec) | Period<br>(msec) | Duty Cycle<br>x<br>(Linear) | Duty Cycle<br>(%) | Duty Cycle<br>Correction Factor<br>(dB) | 1/T<br>Minimum VBW<br>(kHz) | Final setting<br>For VBW<br>(kHz) |
|------------|-------------------|------------------|-----------------------------|-------------------|-----------------------------------------|-----------------------------|-----------------------------------|
| 11A        | 2.03              | 2.18             | 0.9312                      | 93.12             | 0.31                                    | 0.49                        | 1                                 |
| 11N20SISO  | 1.70              | 1.87             | 0.9091                      | 90.91             | 0.41                                    | 0.59                        | 1                                 |
| 11N40SISO  | 0.84              | 0.98             | 0.8571                      | 85.71             | 0.67                                    | 1.19                        | 2                                 |
| 11AC80SISO | 0.41              | 0.58             | 0.7069                      | 70.69             | 1.51                                    | 2.44                        | 3                                 |

Note:

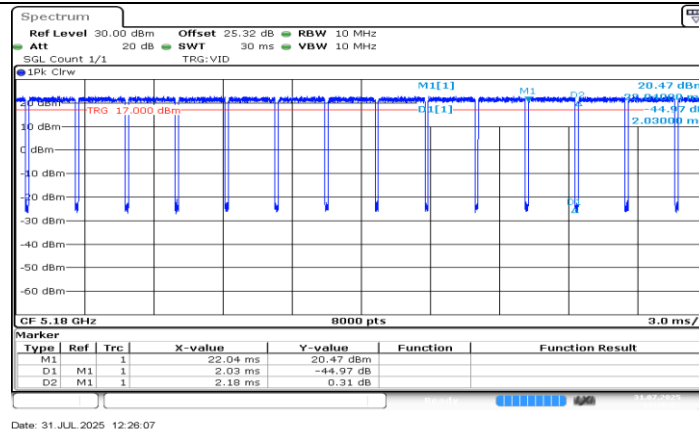
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

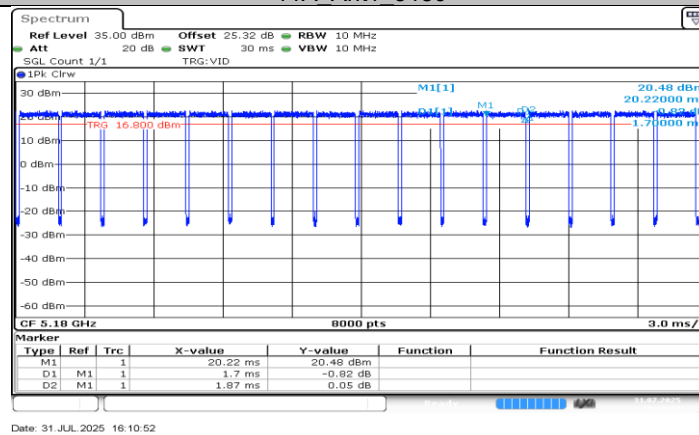
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

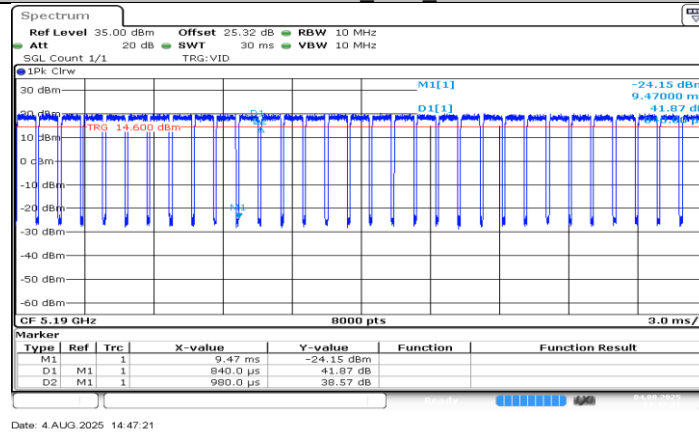
## 11.7.2. Test Graphs



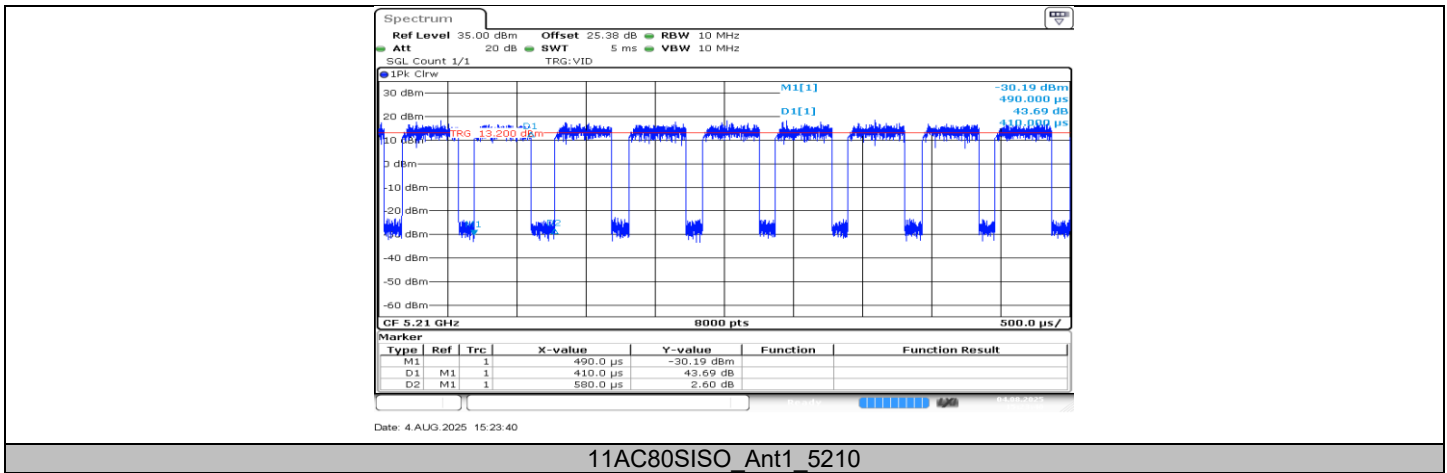
11A Ant1 5180



11N20SISO Ant1 5180



11N40SISO Ant1 5190

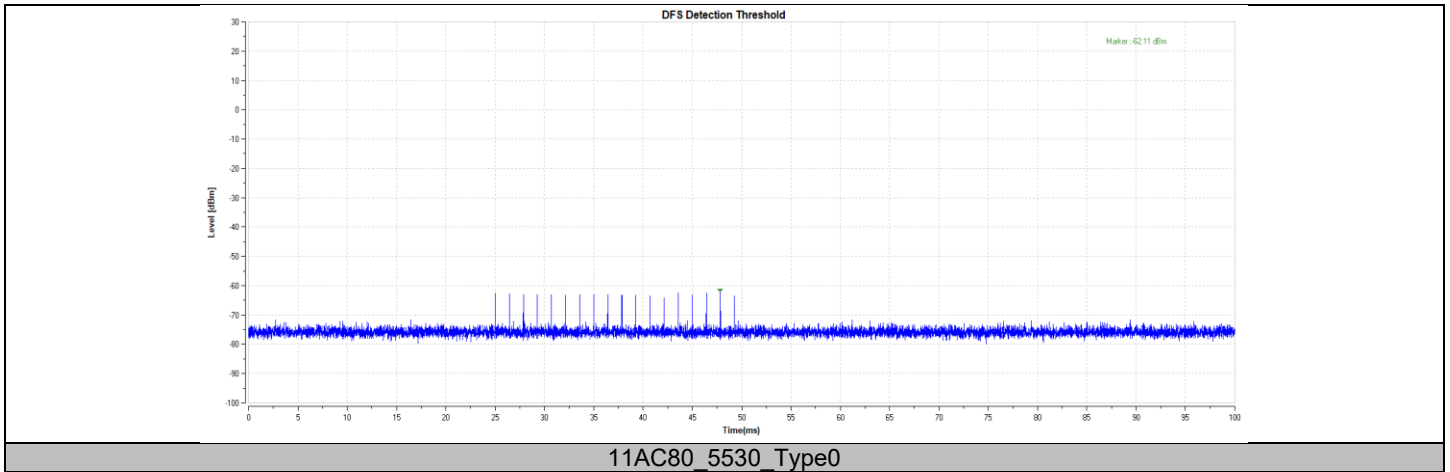


## 11.8. APPENDIX H: DFS DETECTION THRESHOLDS

### 11.8.1. Test Result

| Test Mode | Frequency[MHz] | Radar Type | Result | Limit[dbm] | Verdict |
|-----------|----------------|------------|--------|------------|---------|
| 11AC80    | 5530           | Type0      | -62.11 | -62.00     | PASS    |

## 11.8.2. Test Graphs



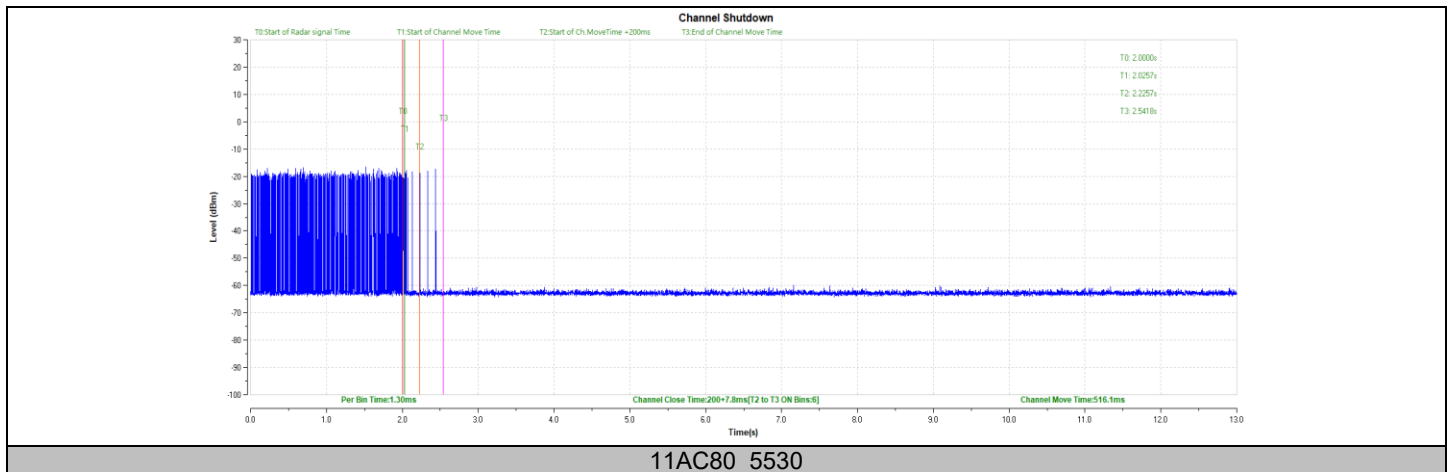
## 11.9. APPENDIX I: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

### 11.9.1. Test Result

| Test Mode | Frequency[MHz] | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|-----------|----------------|---------|-----------|---------|-----------|---------|
| 11AC80    | 5530           | 200+7.8 | 200+60    | 516.1   | 10000     | PASS    |

Note: CMT = T3 – T1 in ms

## 11.9.2. Test Graphs

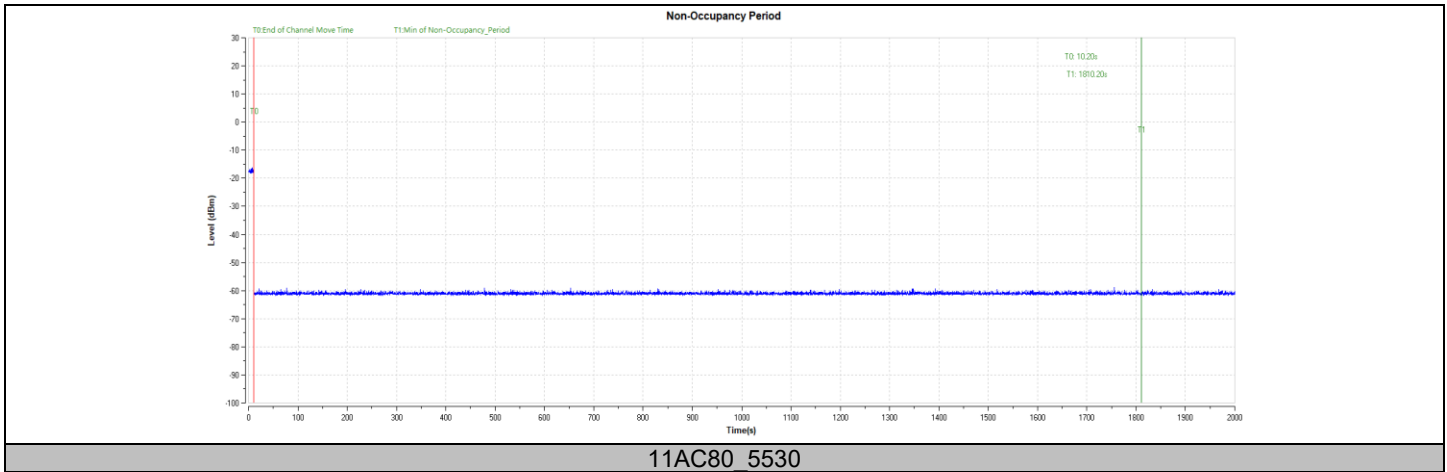


## 11.10. APPENDIX J: NON-OCCUPANCY PERIOD

### Test Result

| Test Mode | Channel | Result         | Limit[s]    | Verdict |
|-----------|---------|----------------|-------------|---------|
| 11AC80    | 5530    | see test graph | $\geq 1800$ | PASS    |

### 11.10.1. Test Graphs



**END OF REPORT**