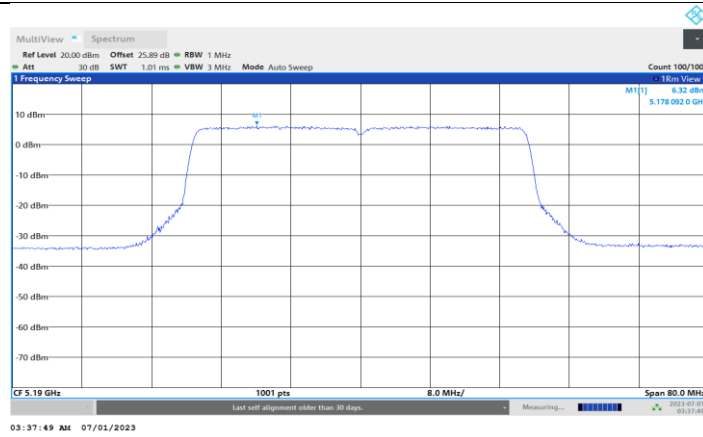
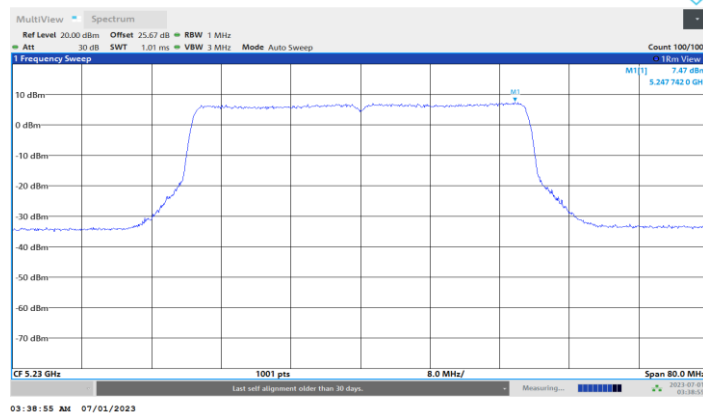
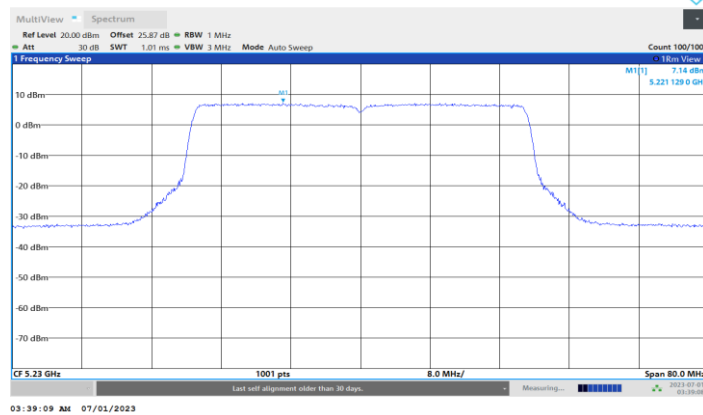




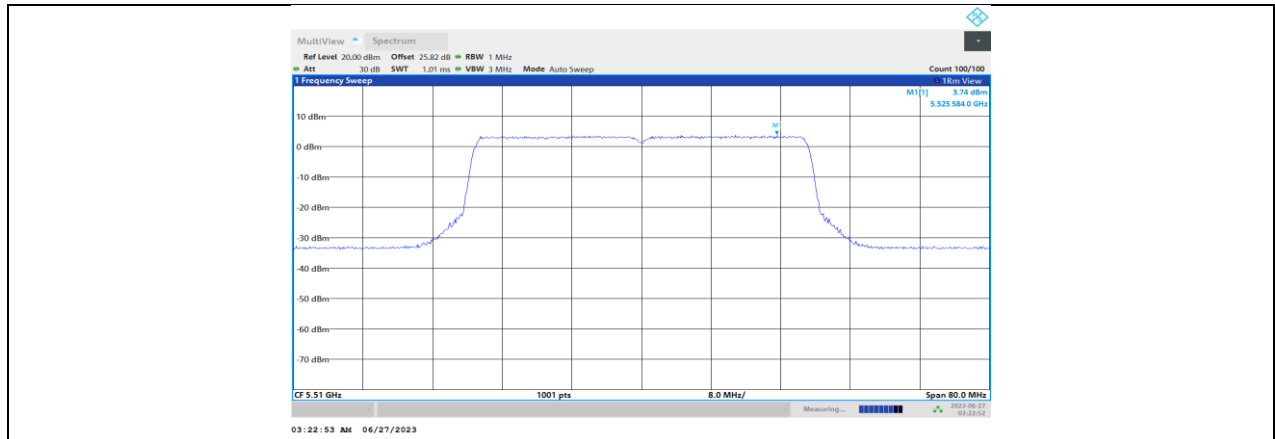
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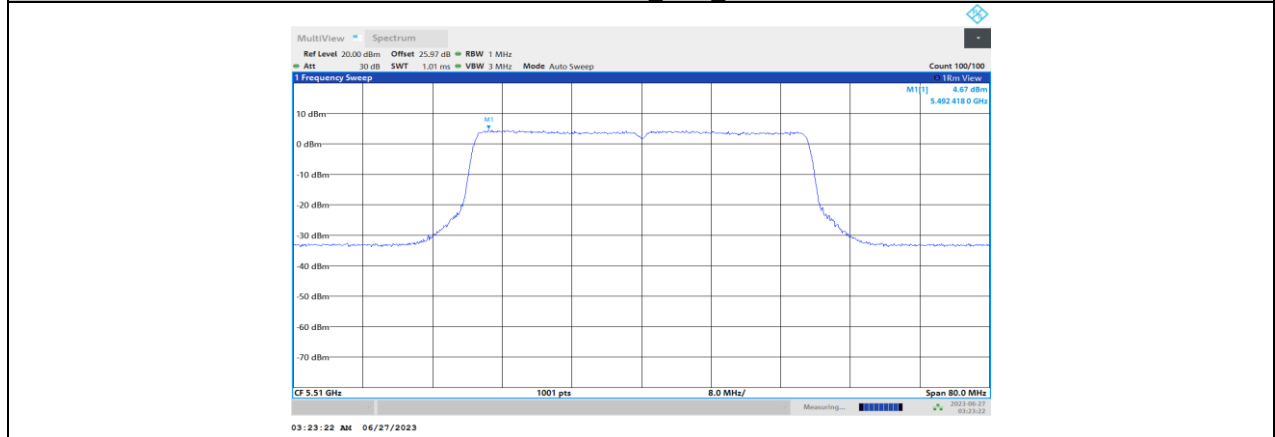
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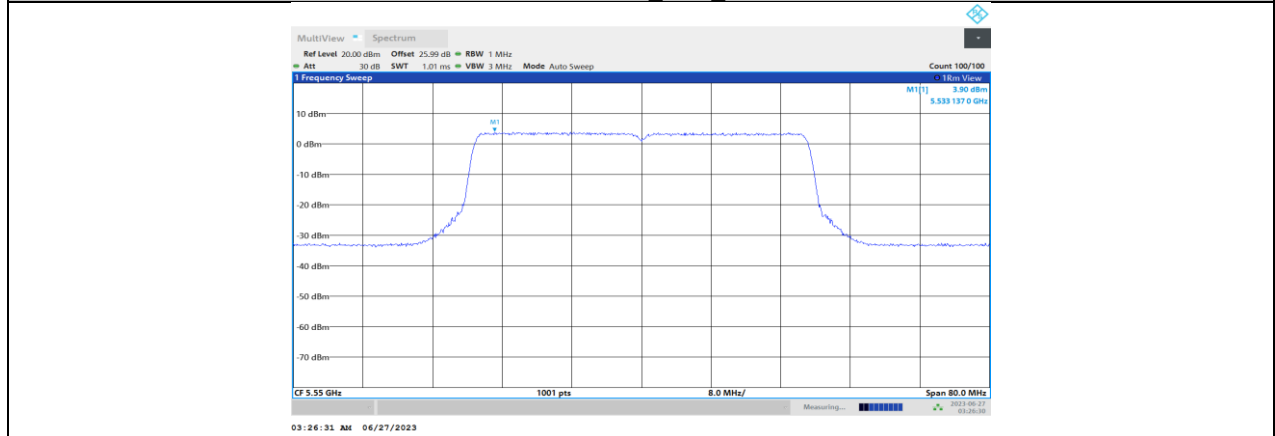
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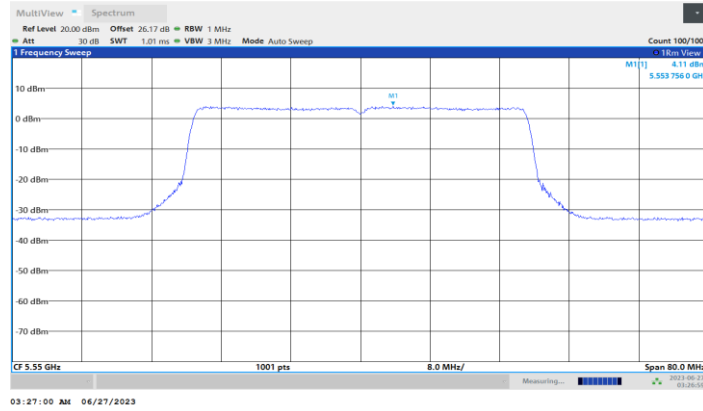
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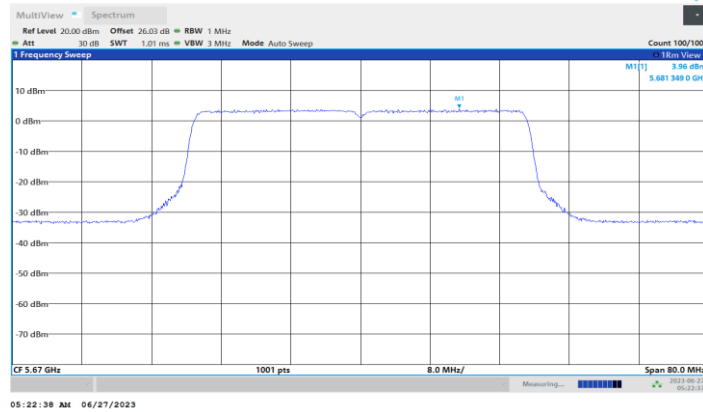
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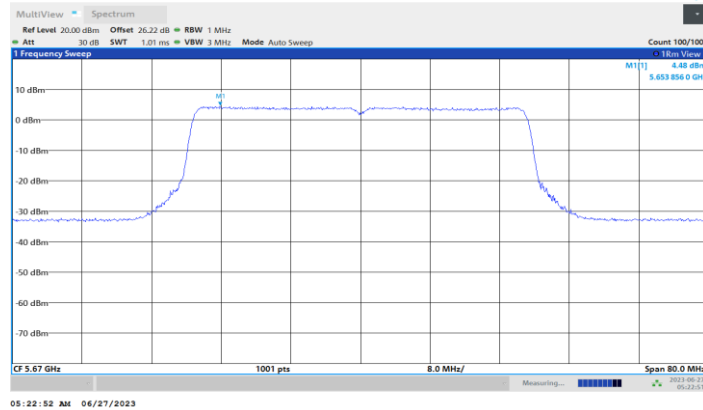
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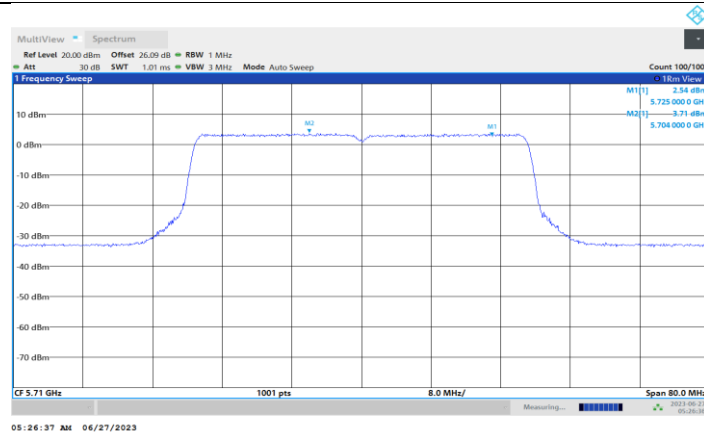
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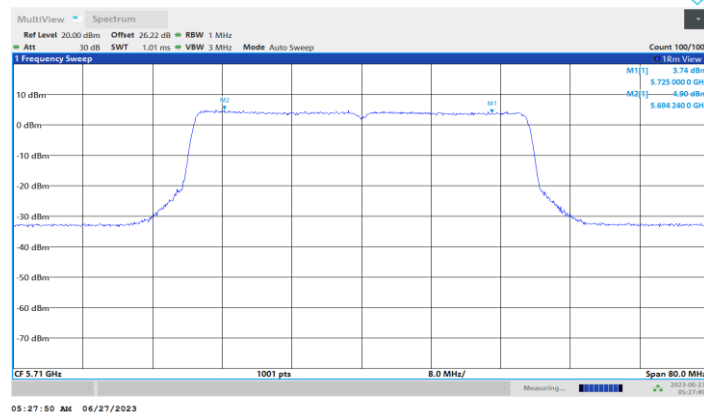
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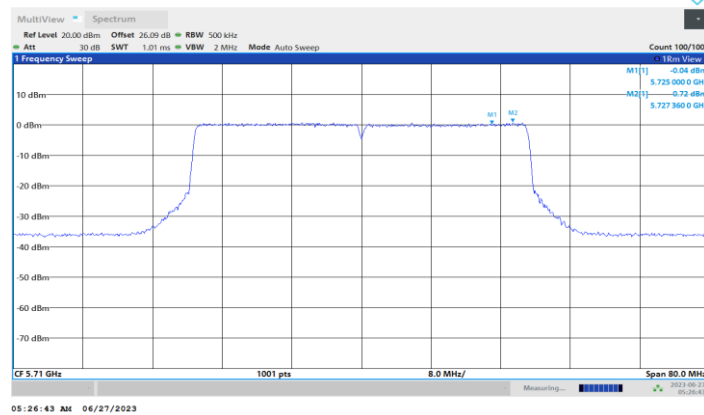
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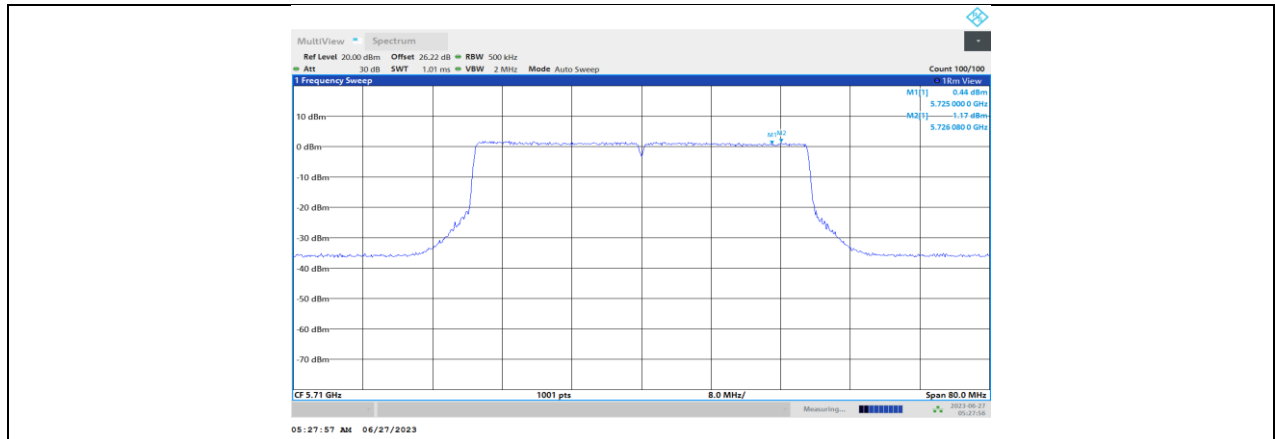
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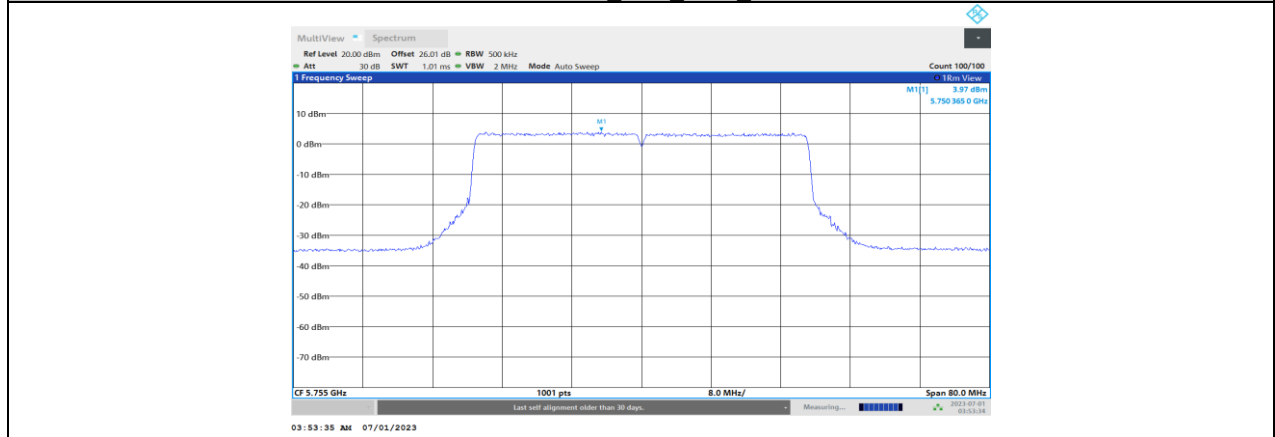
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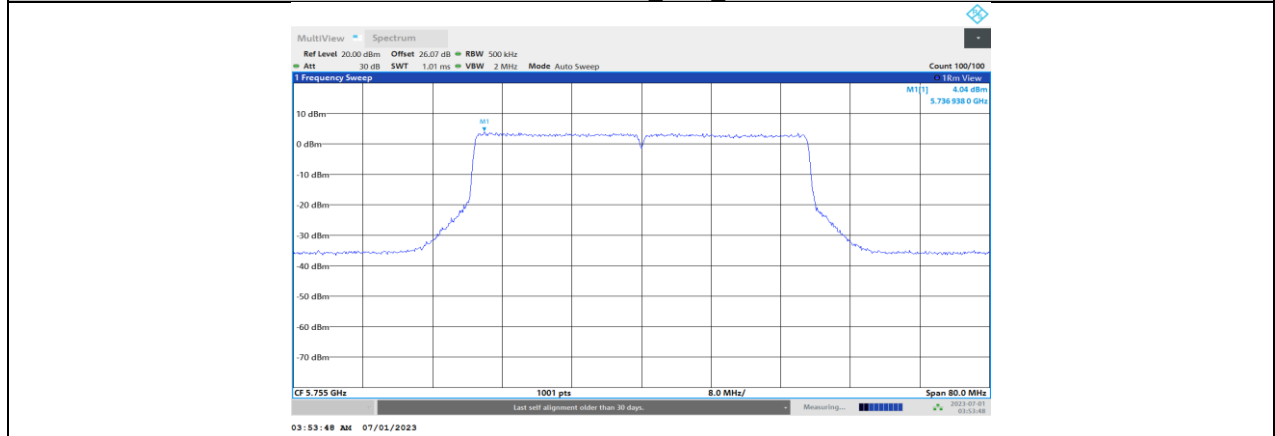
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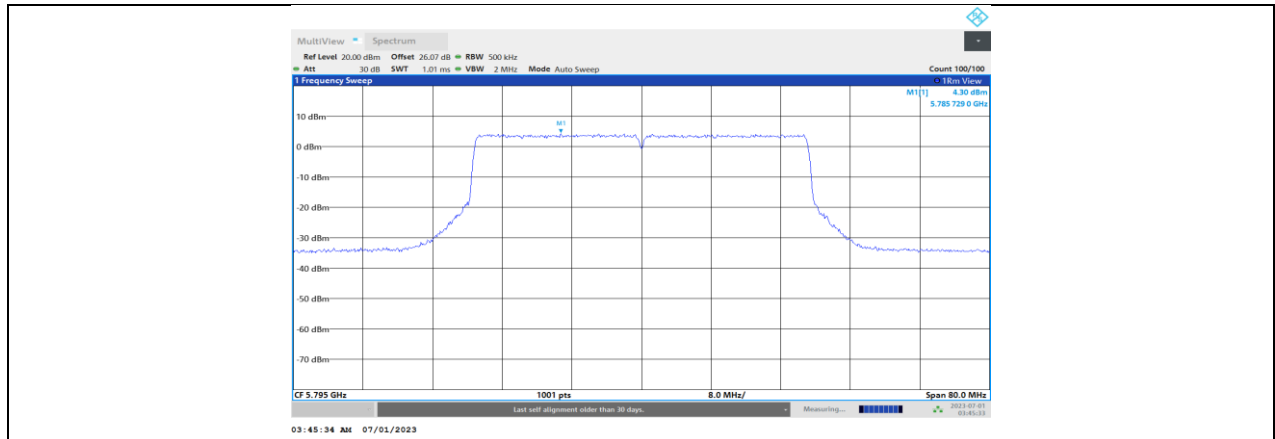
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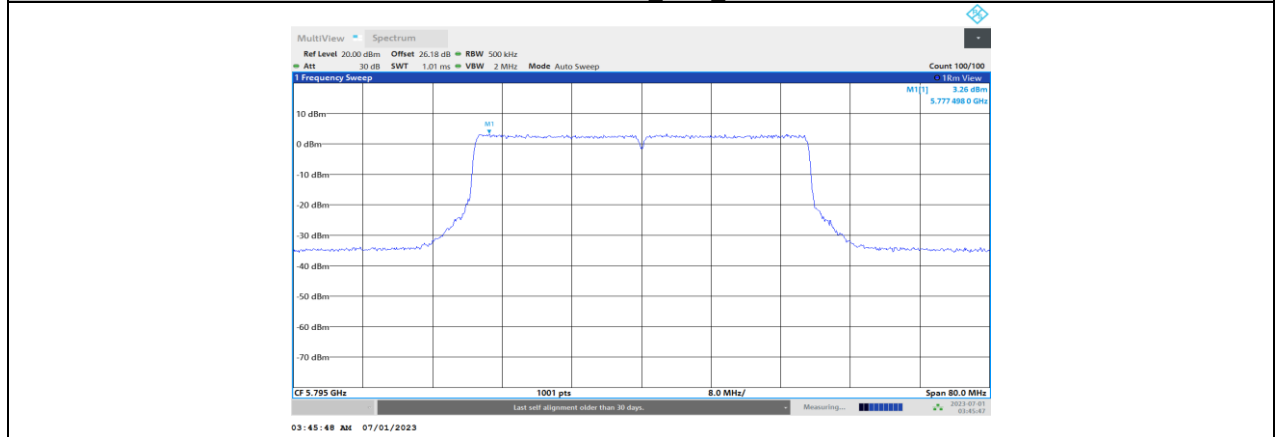
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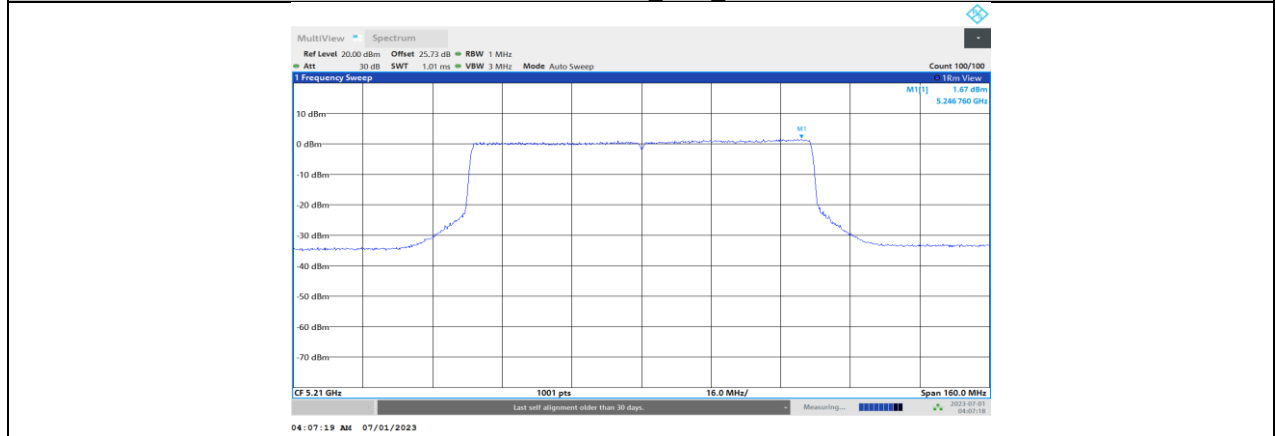
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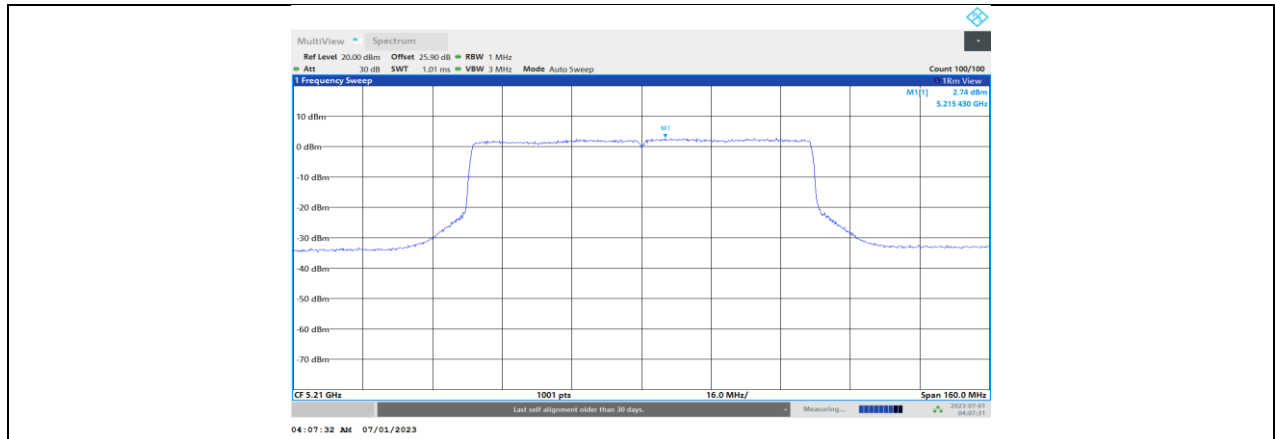
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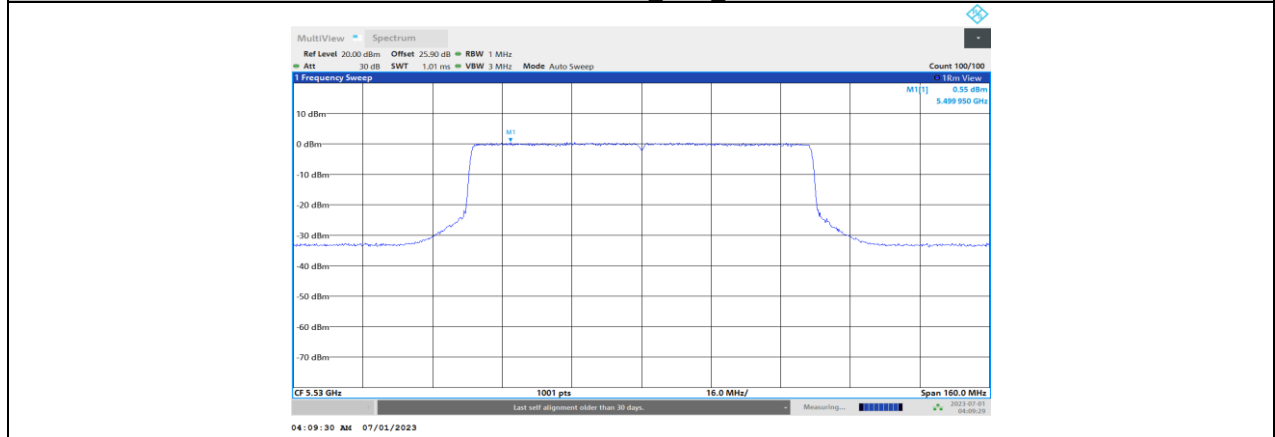
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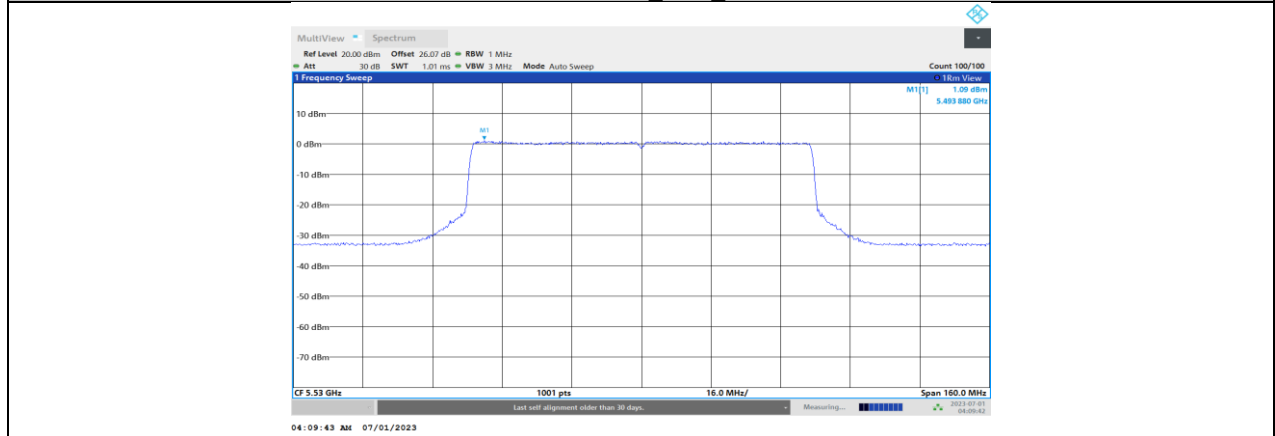
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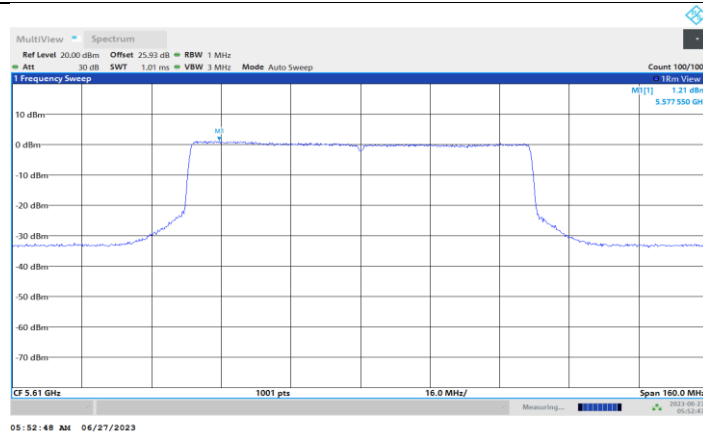
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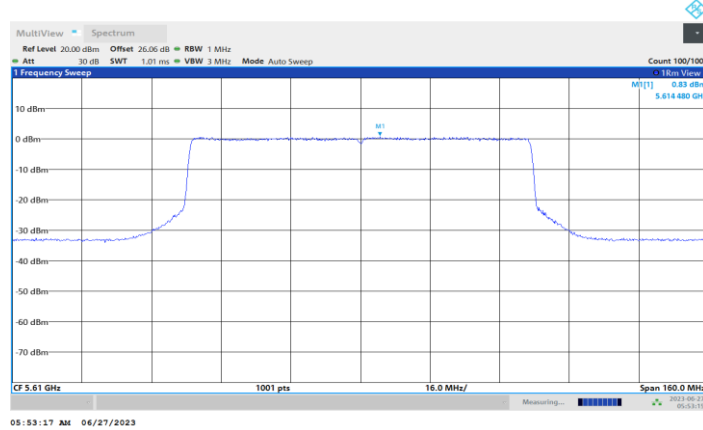
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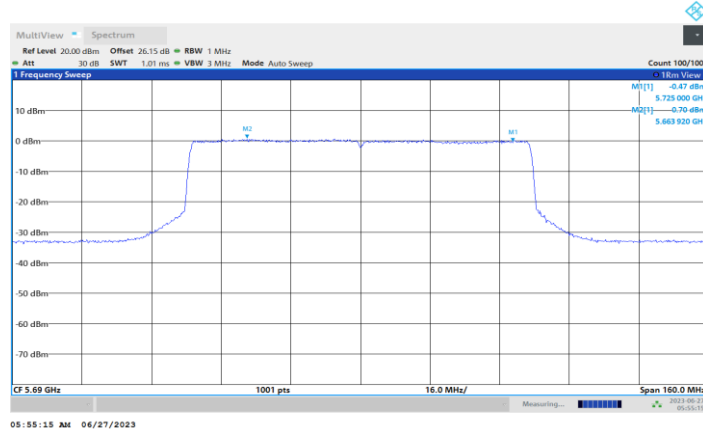
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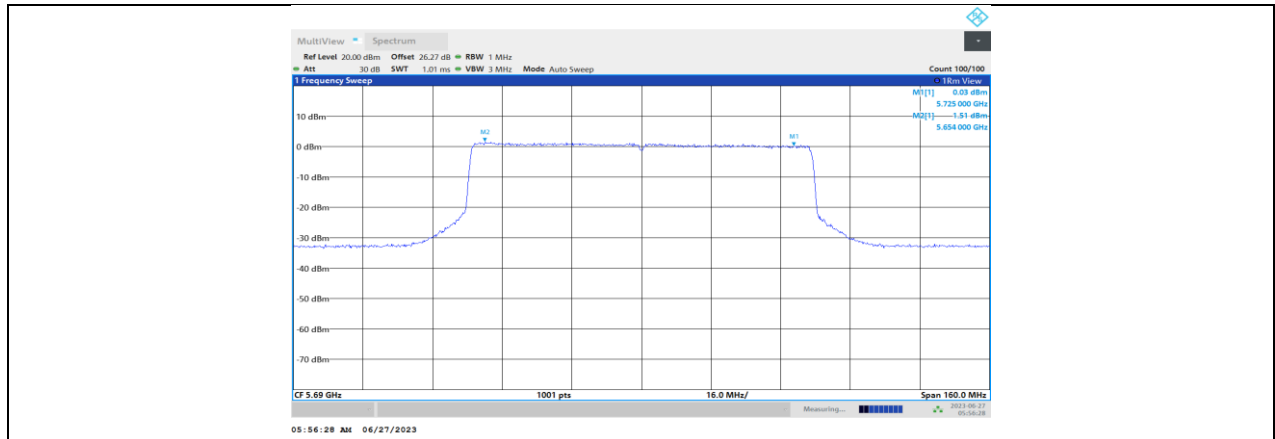
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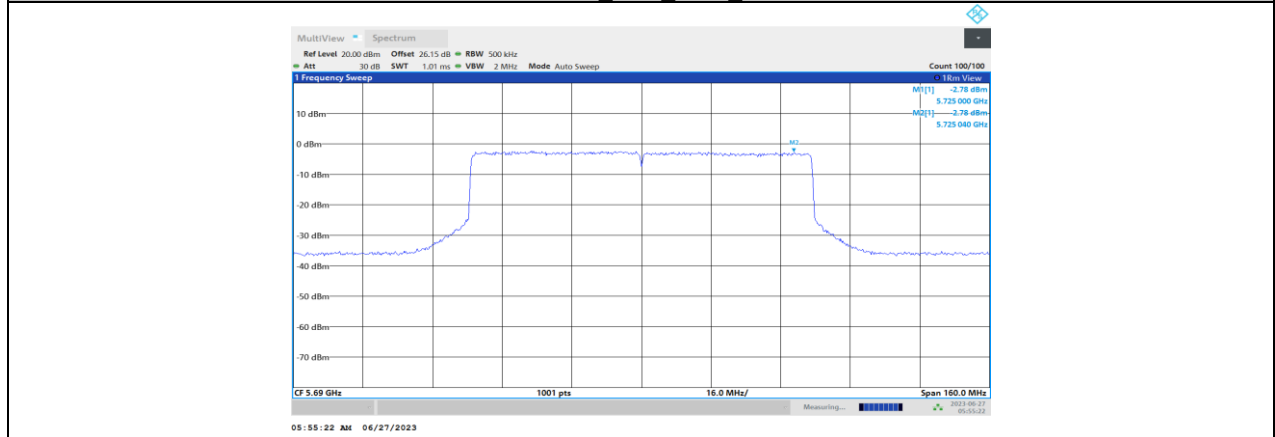
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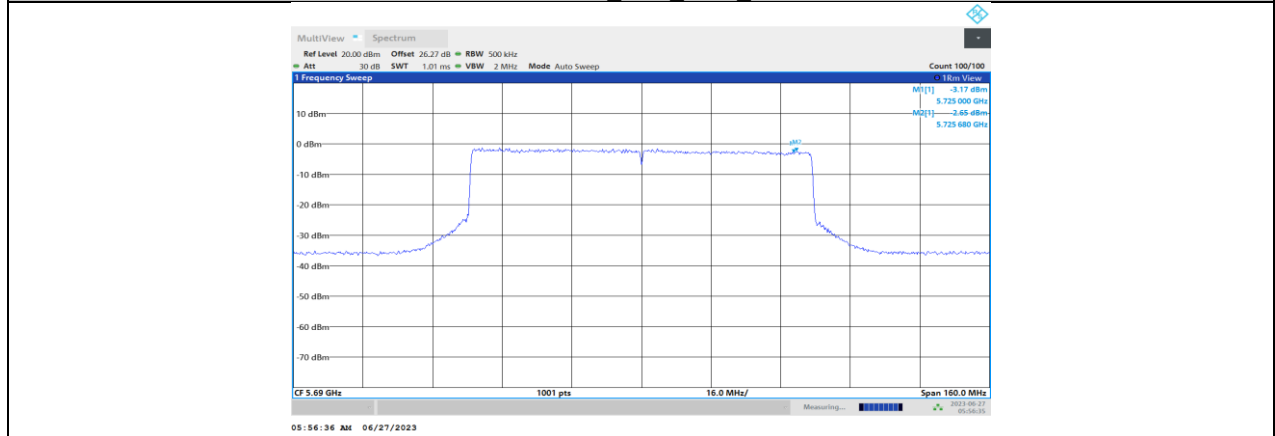
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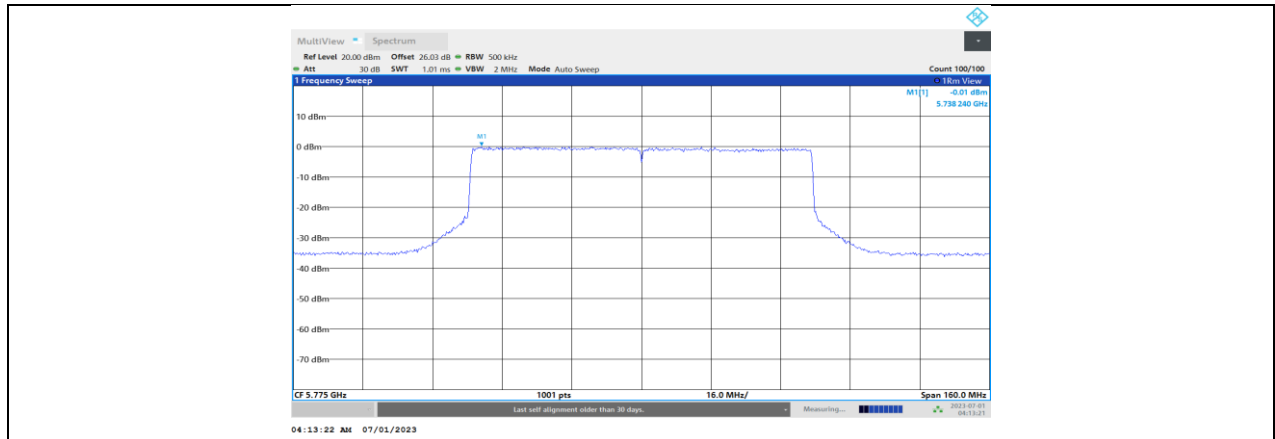
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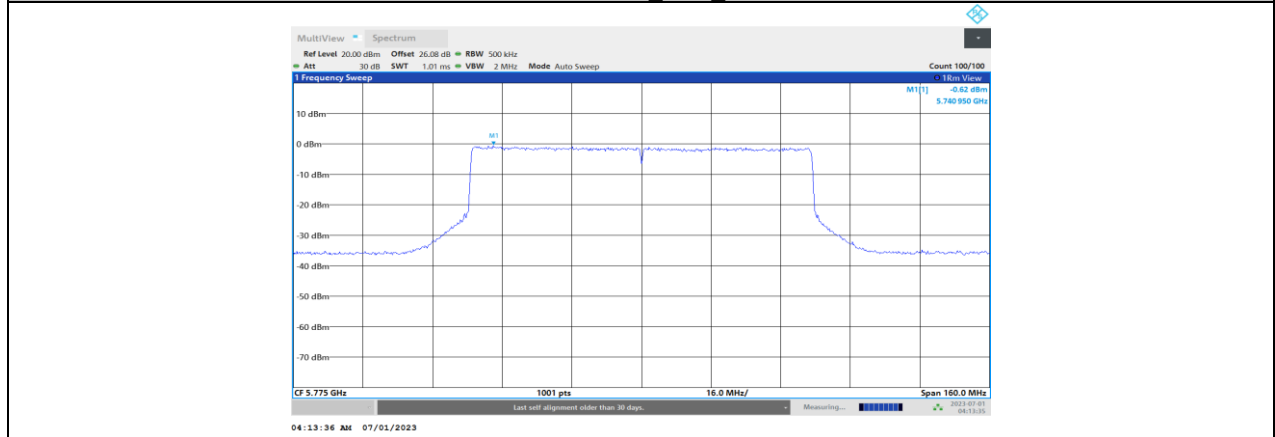
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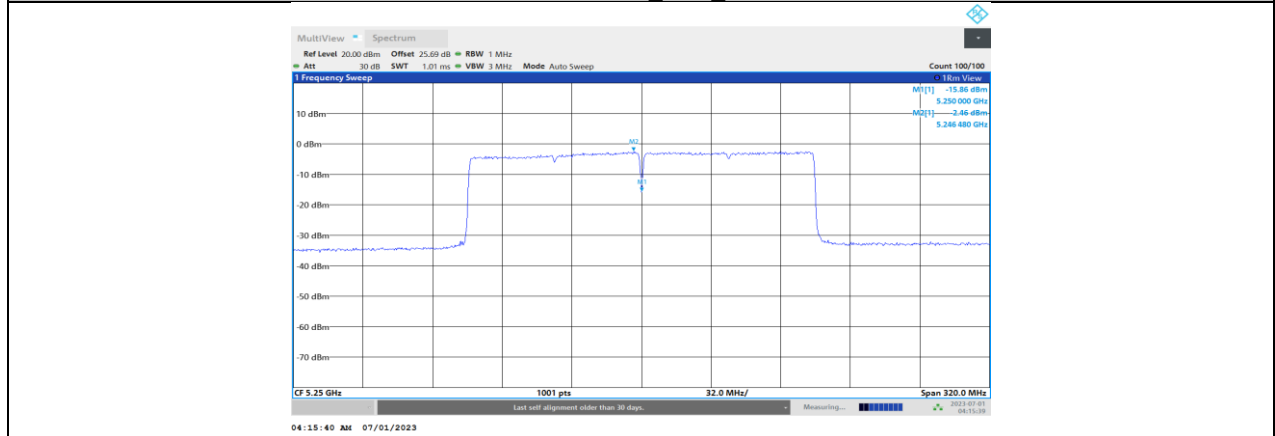
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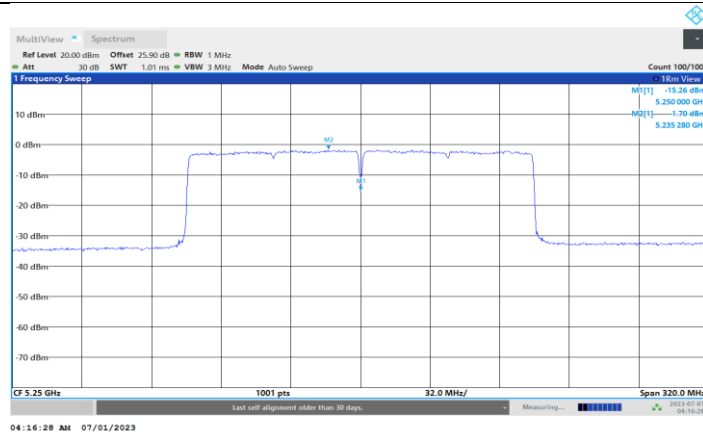
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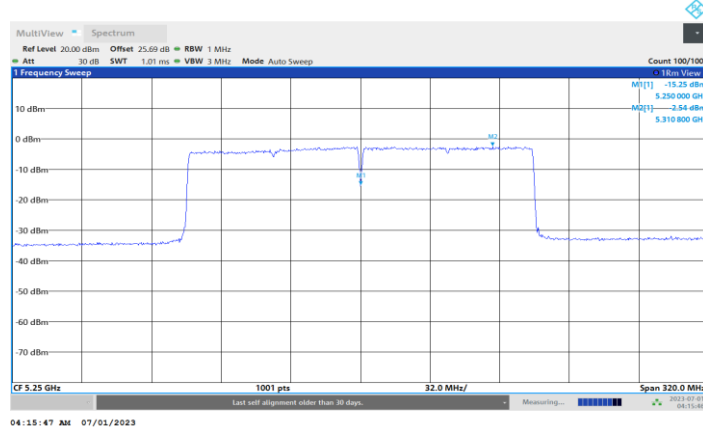
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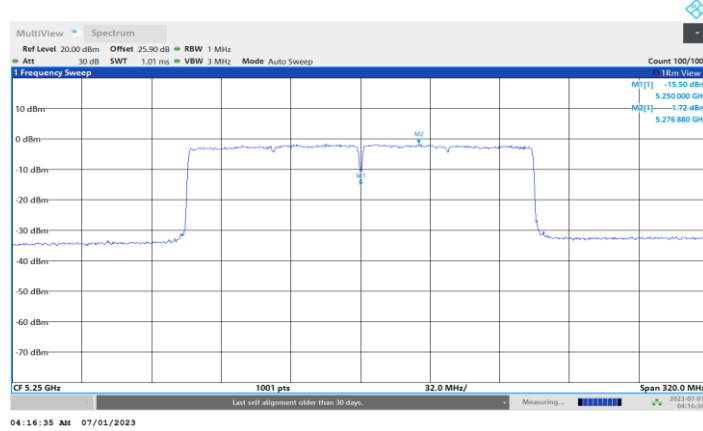
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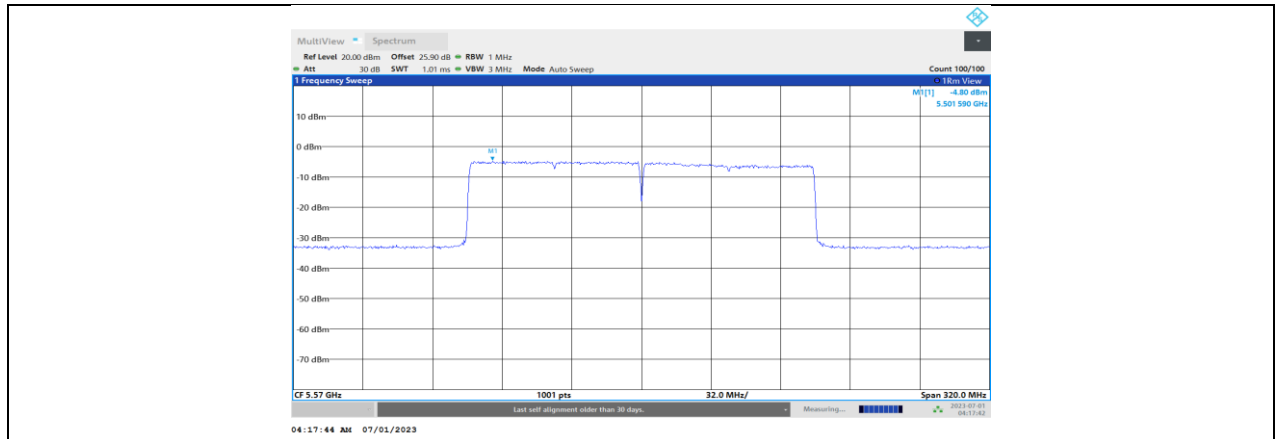
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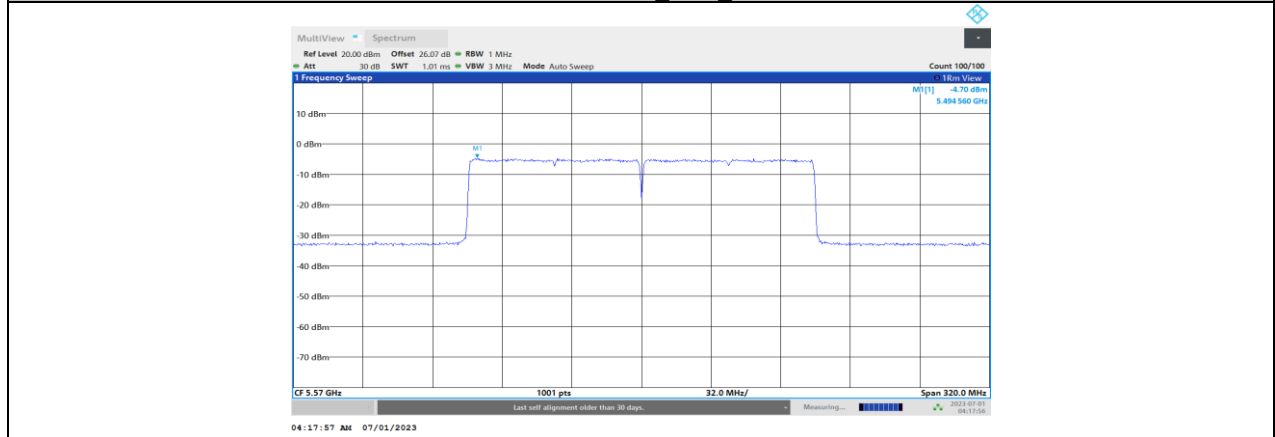
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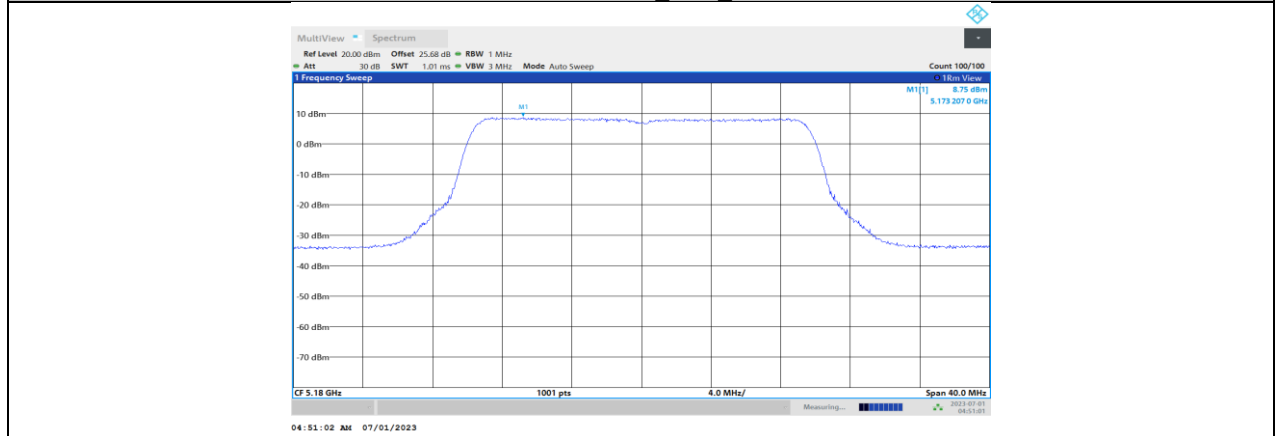
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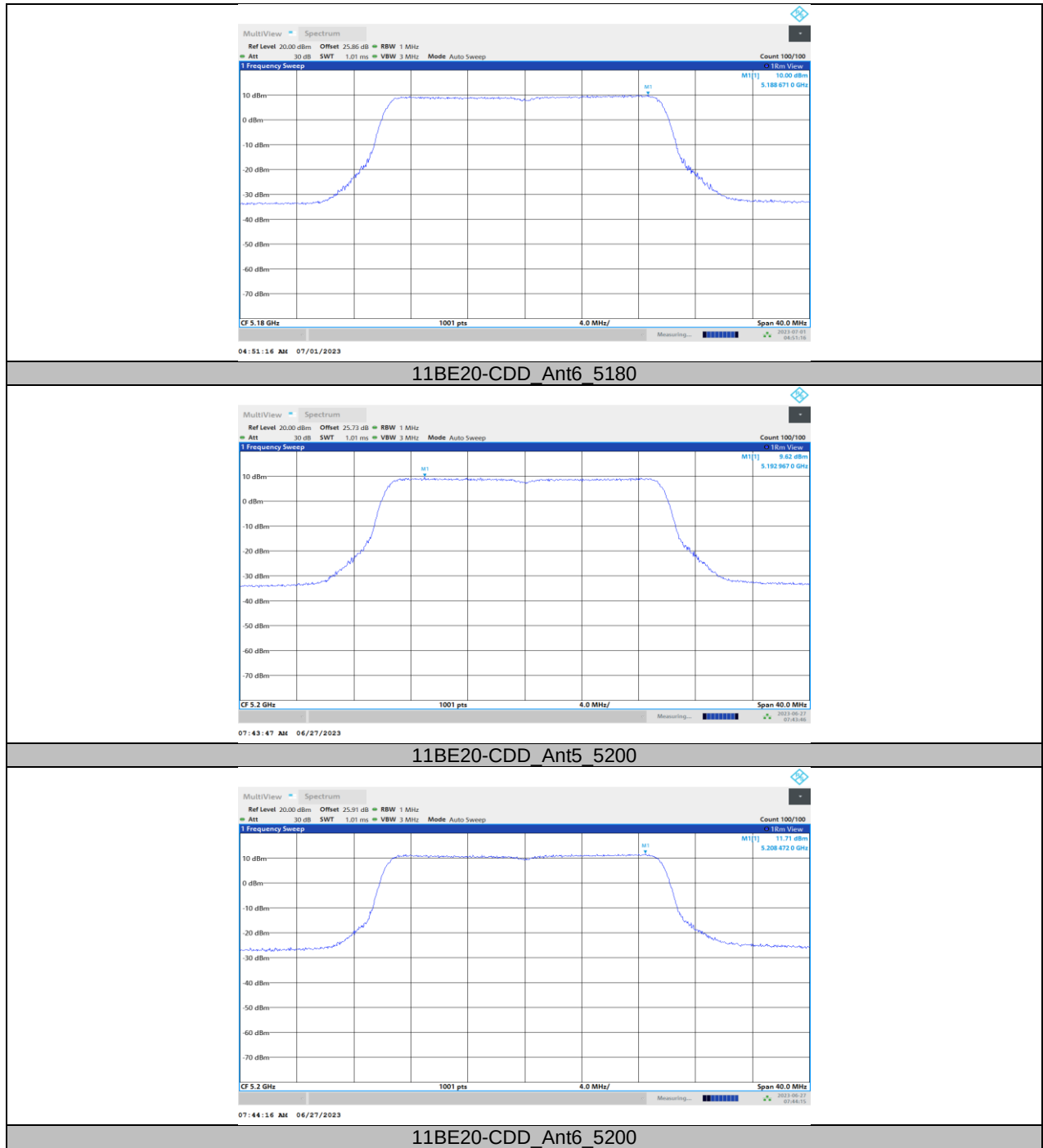
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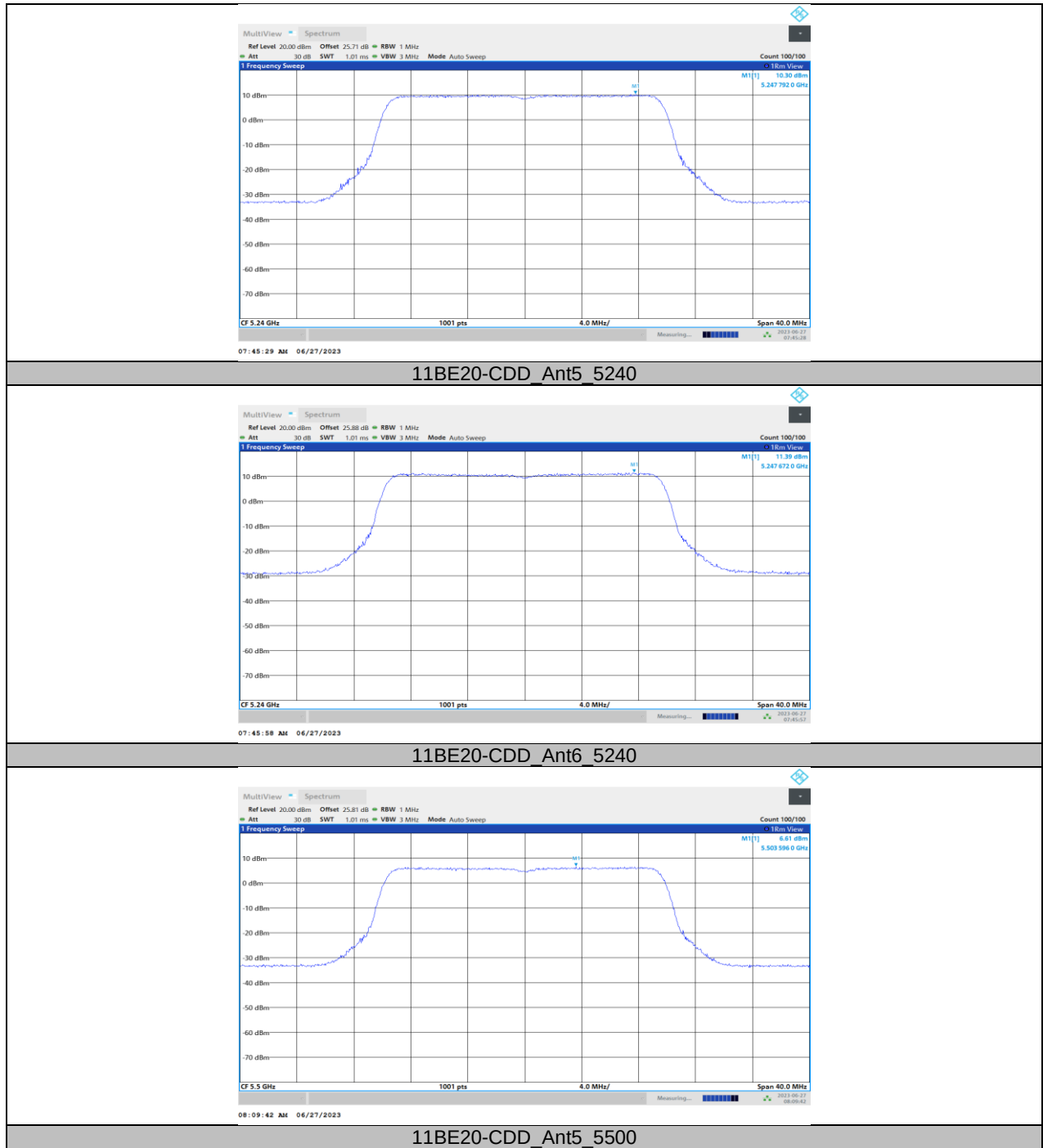


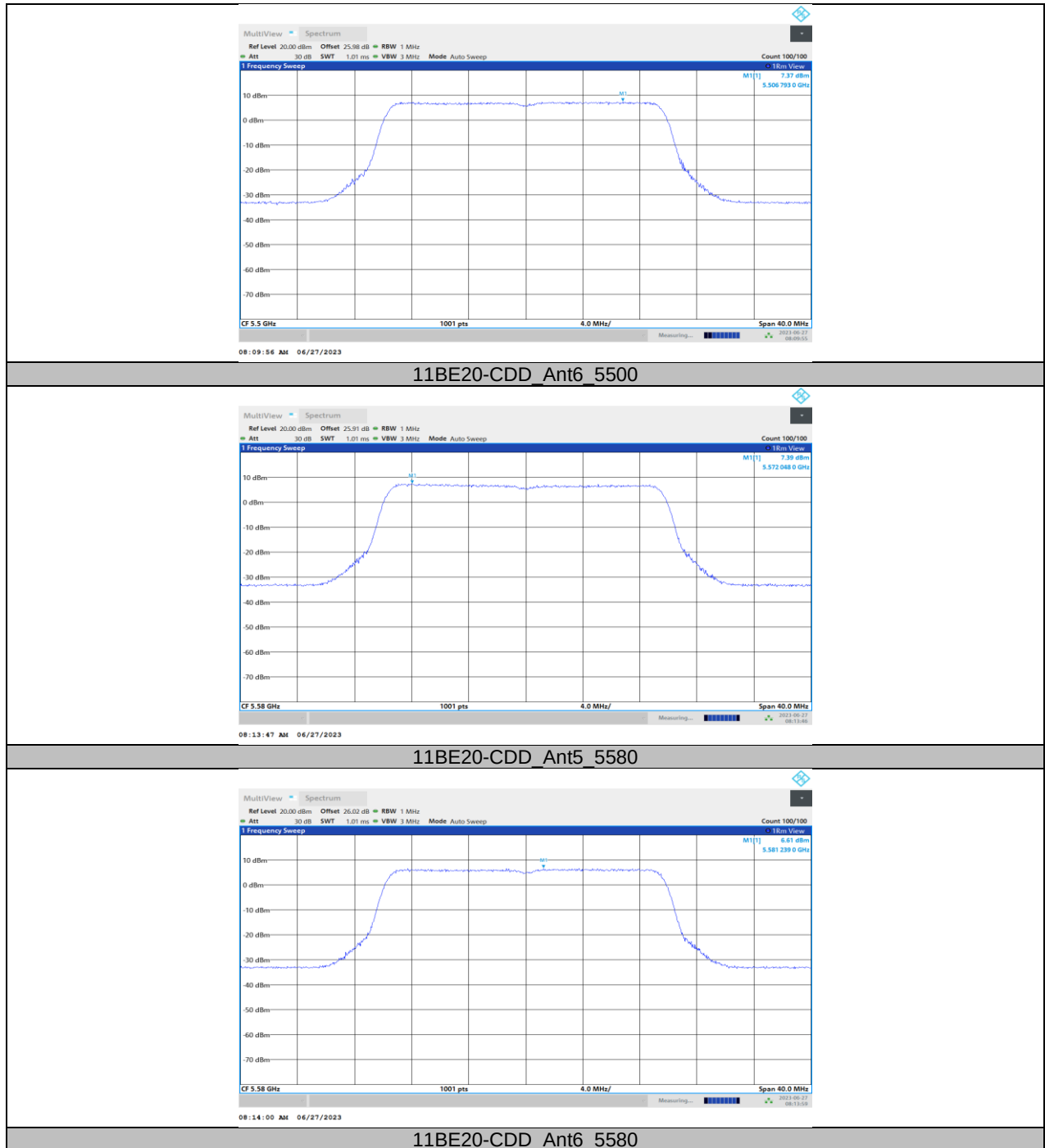
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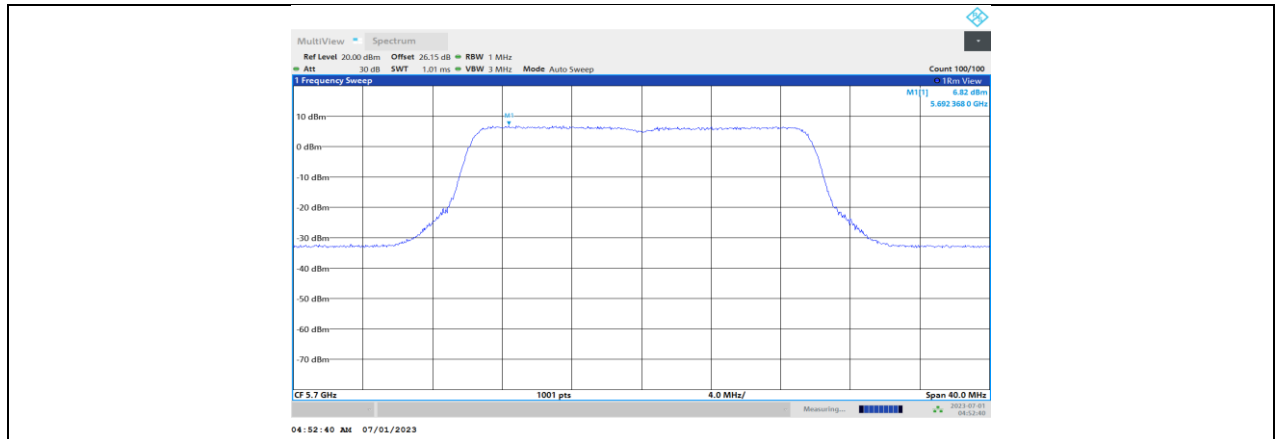


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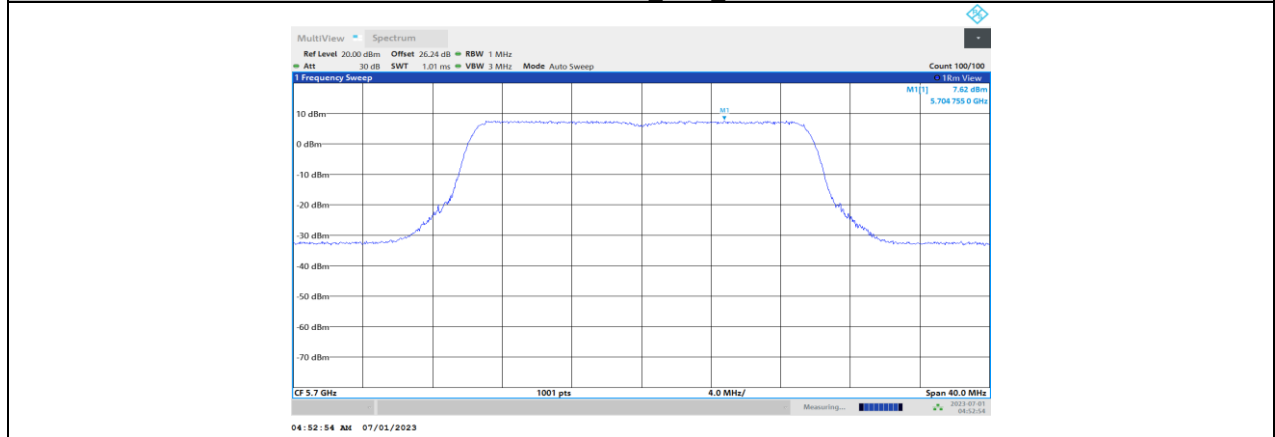




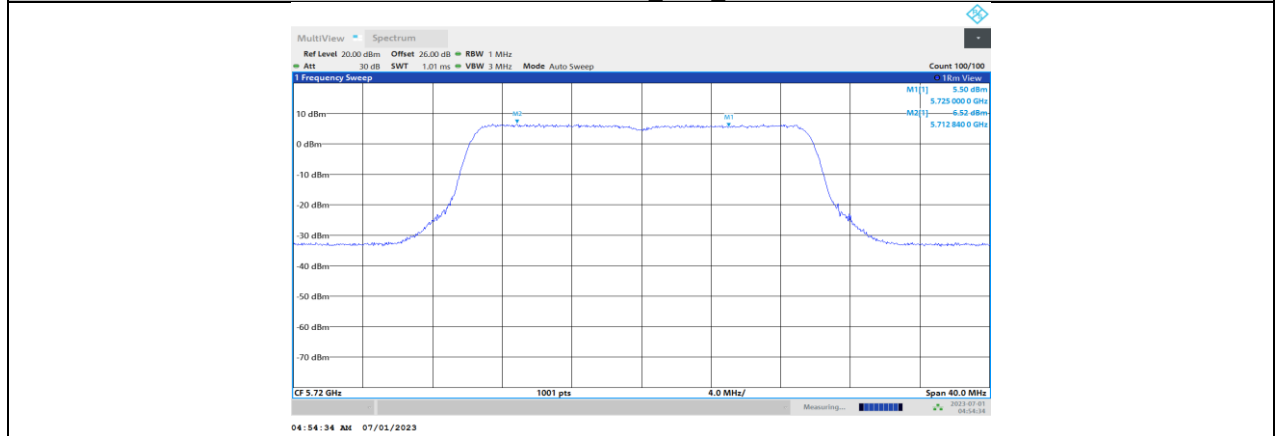




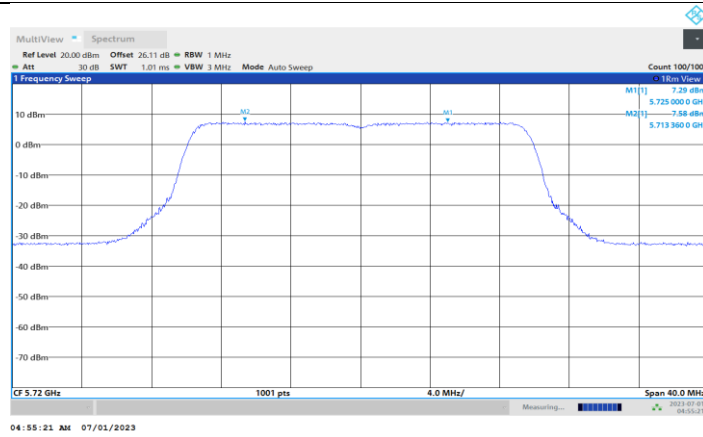
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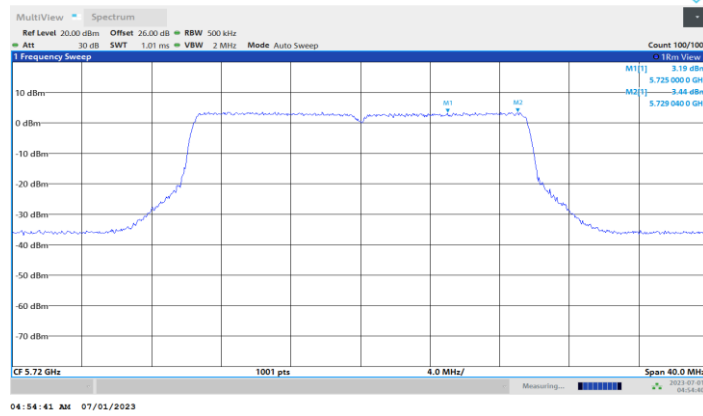
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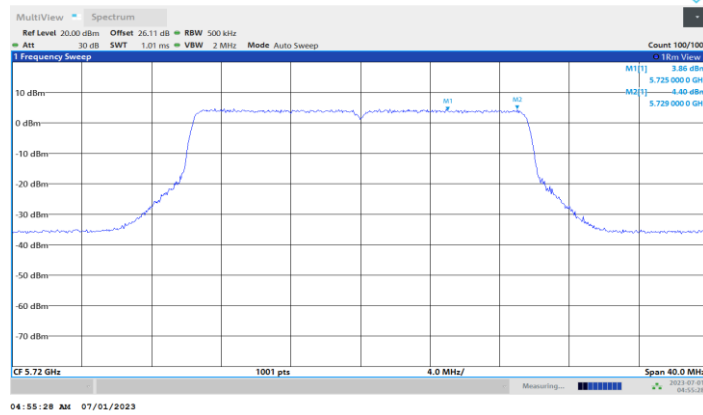
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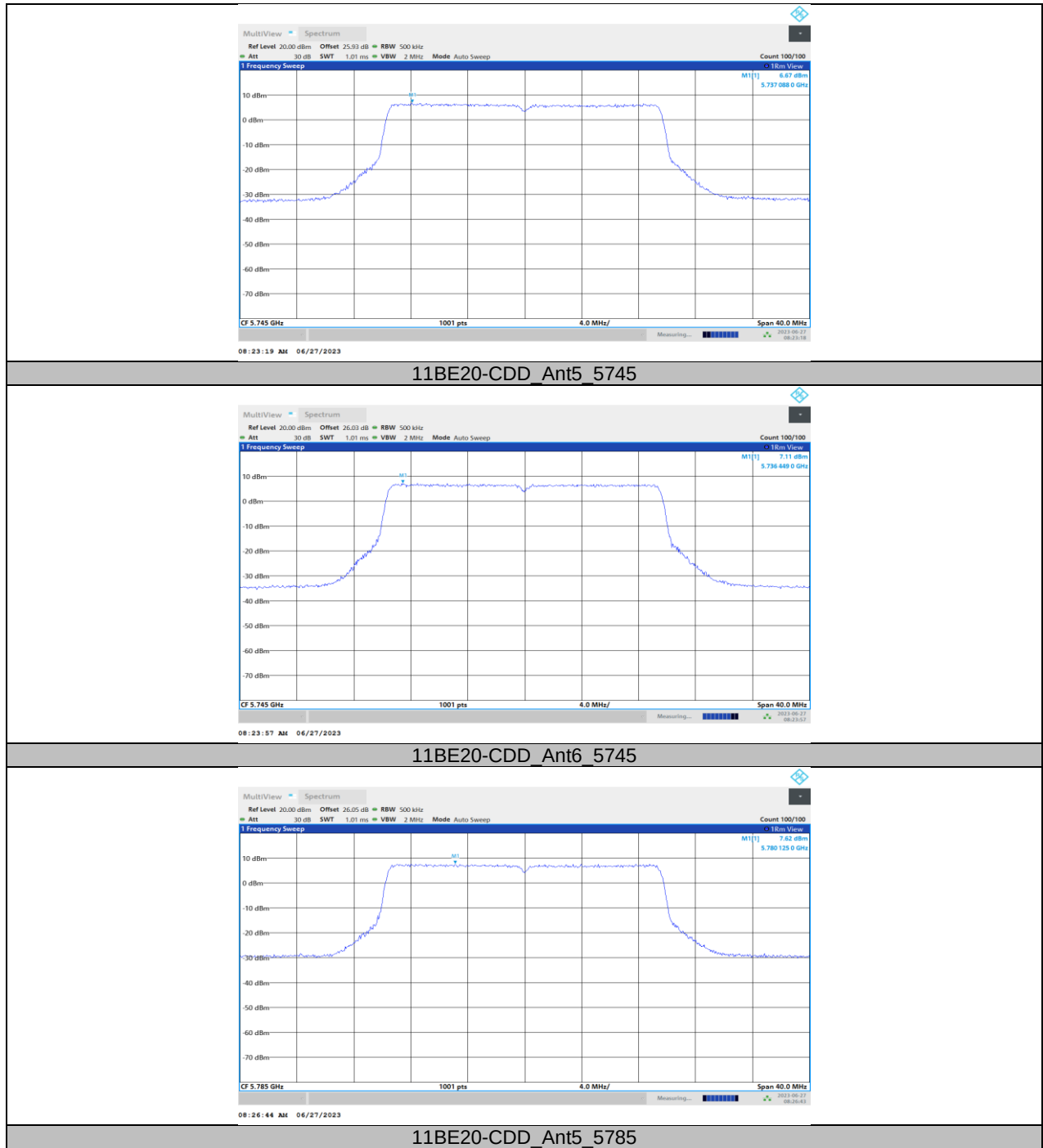
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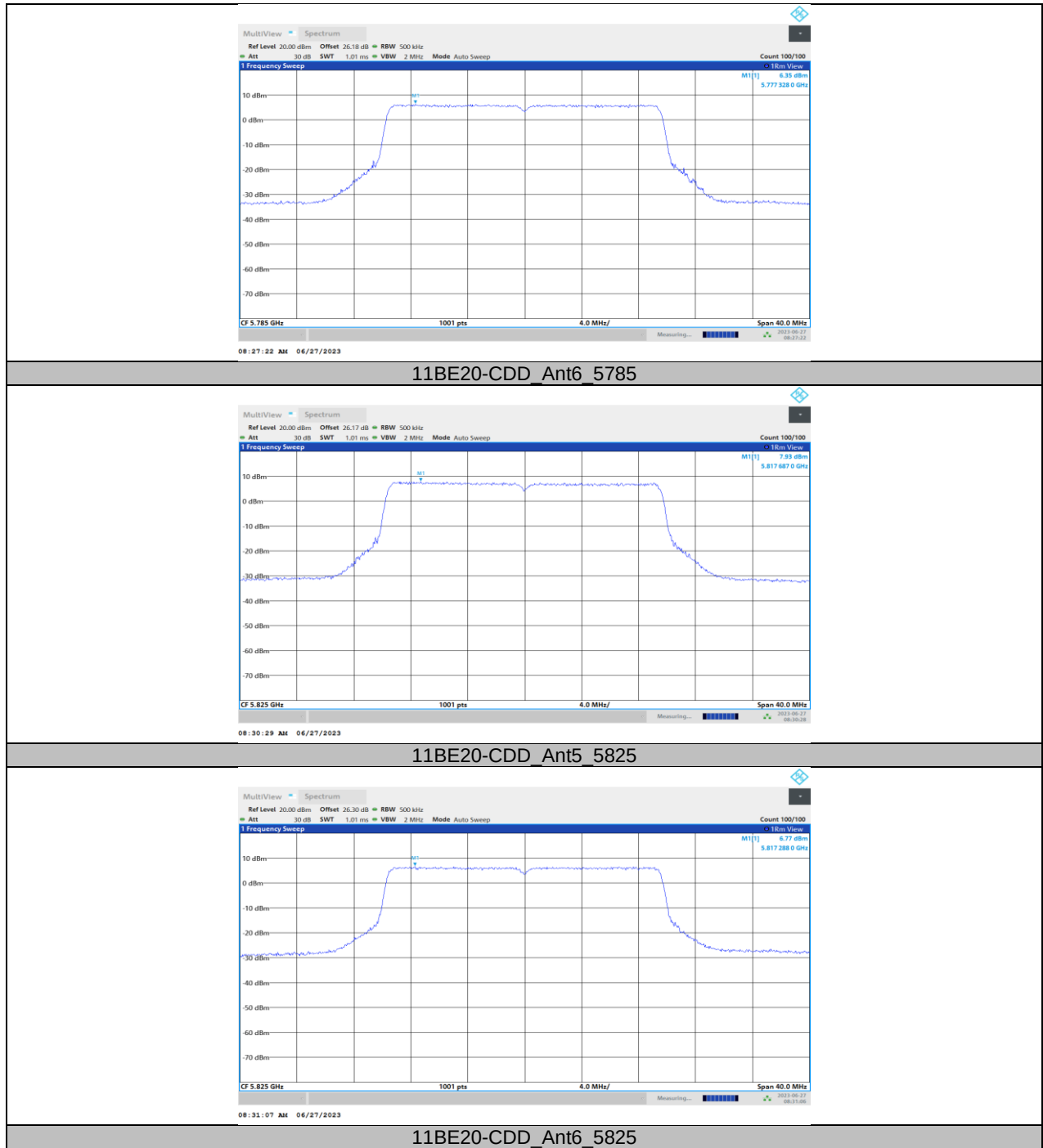


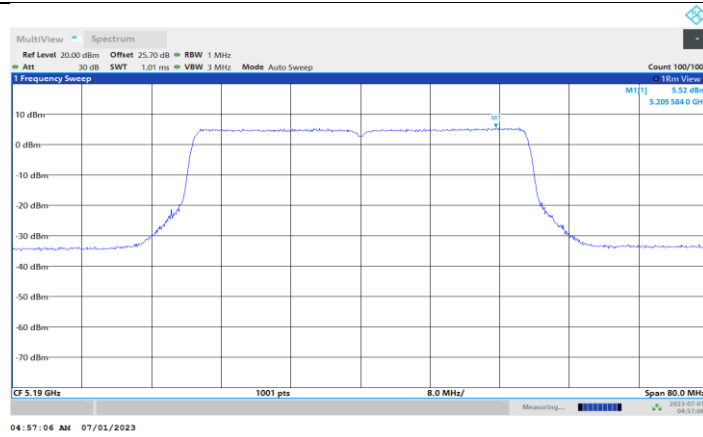
11BE20-CDD Ant5 5720 UNII-3



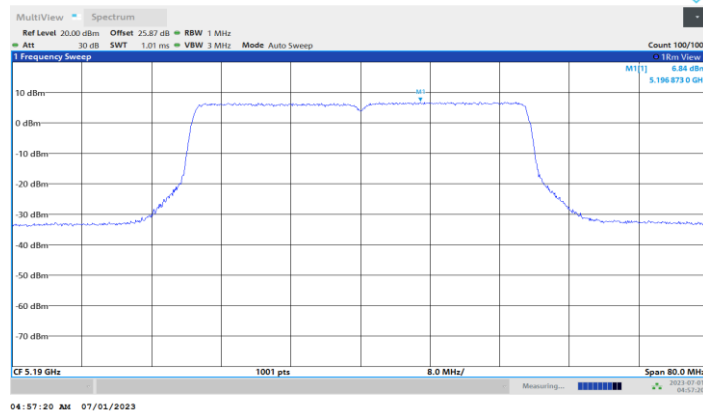
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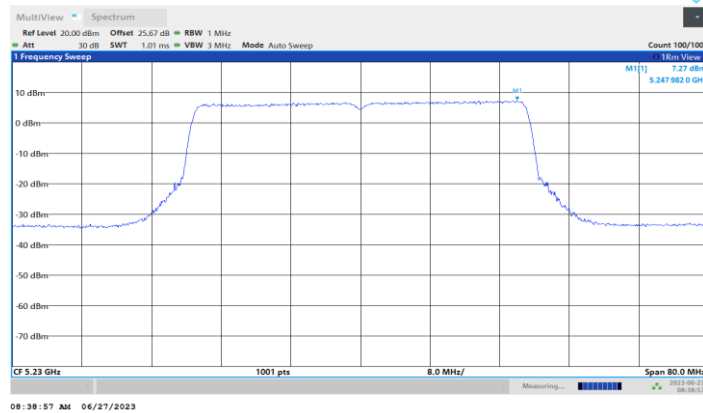




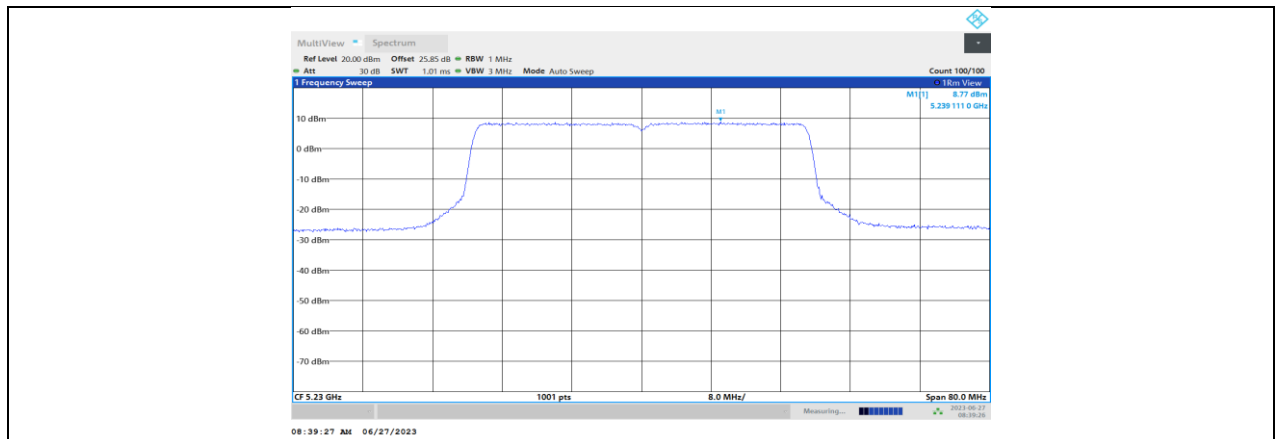
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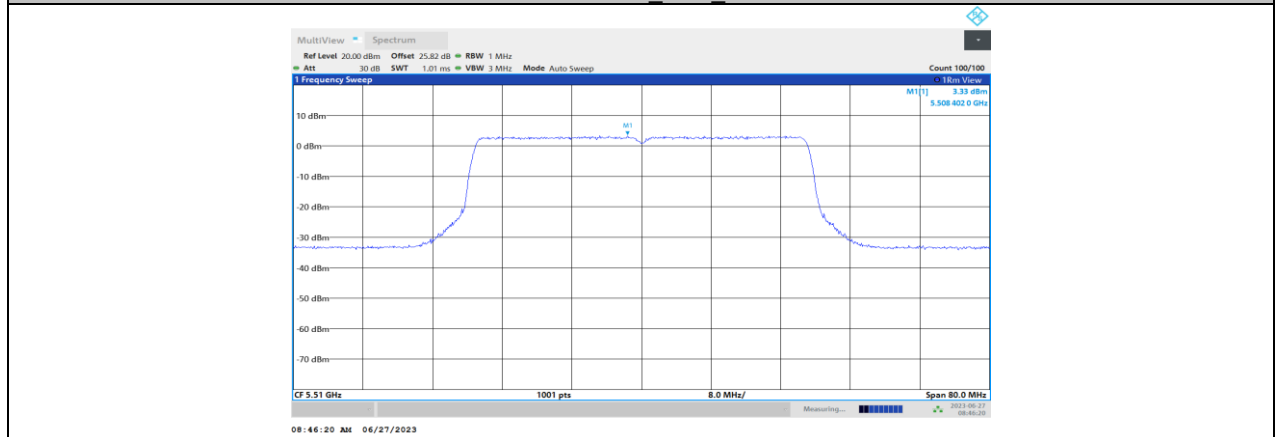
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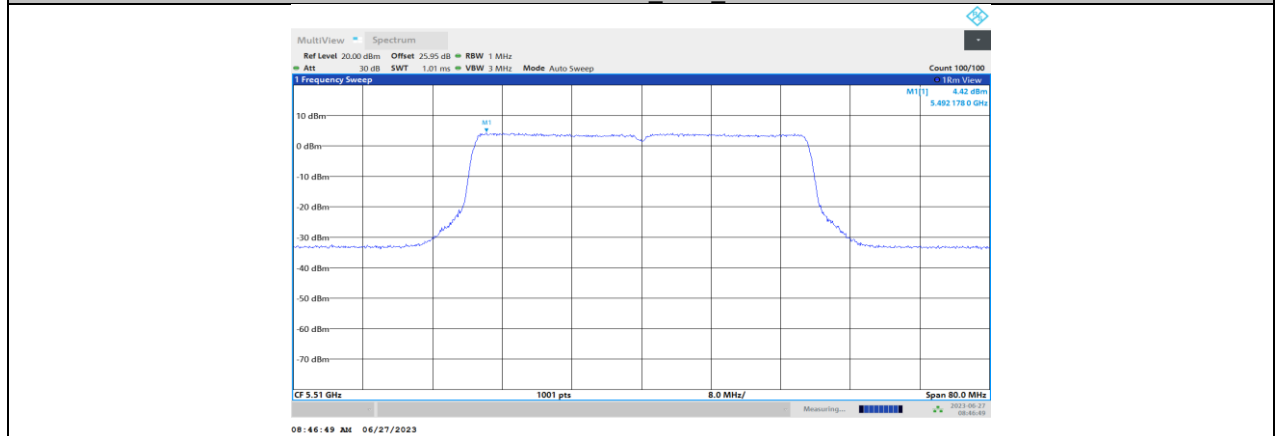
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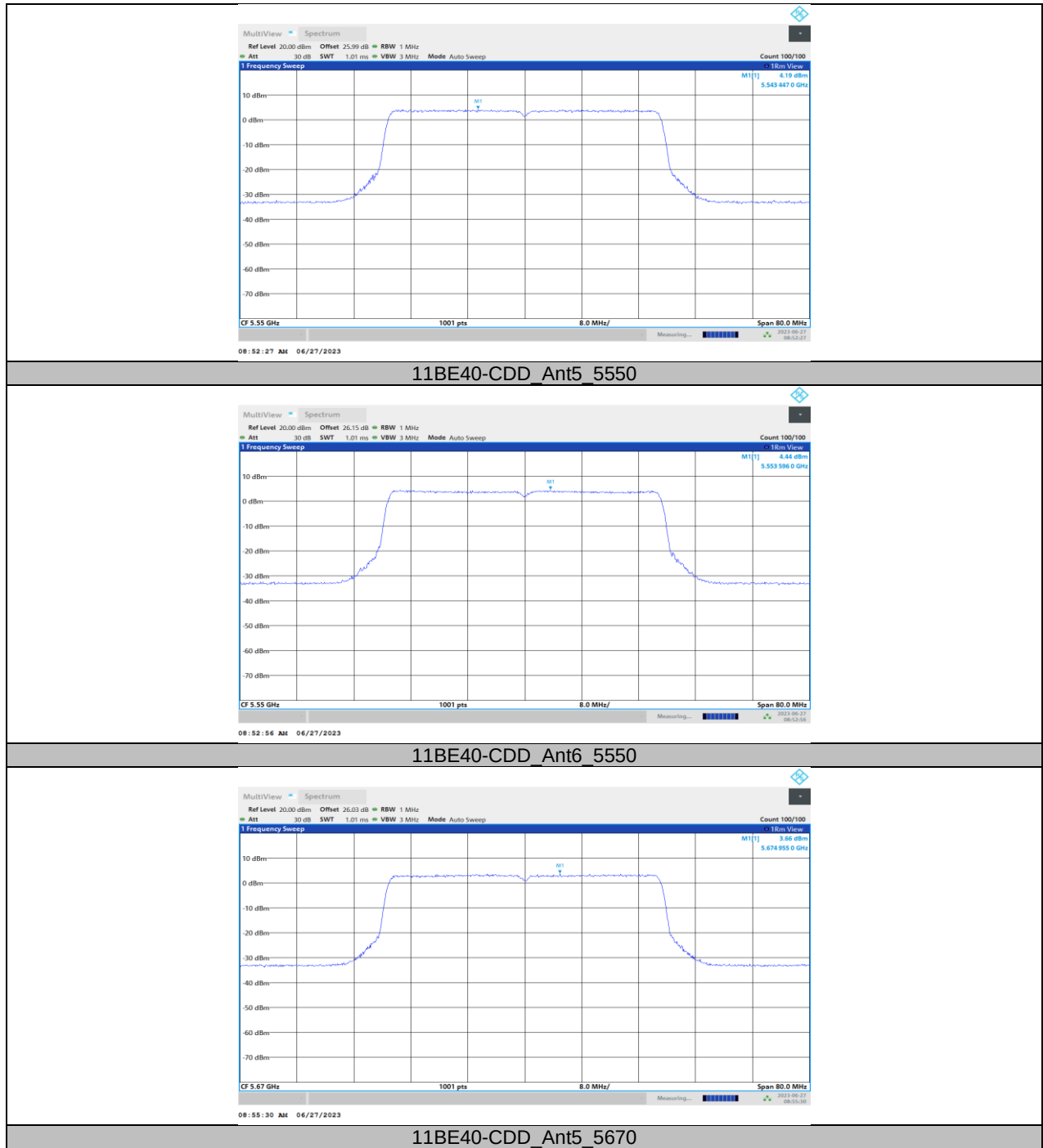
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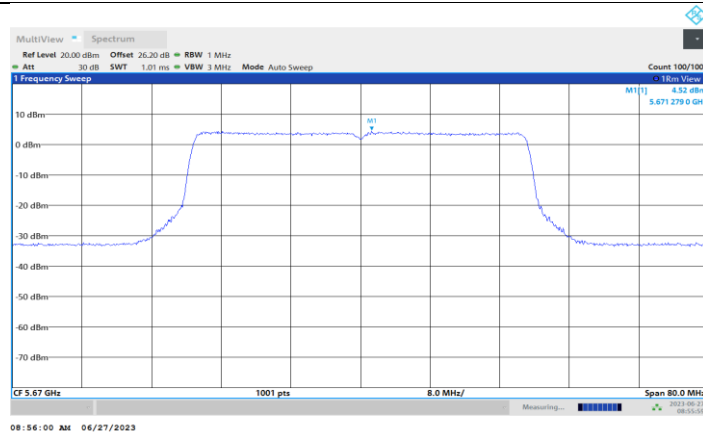


11BE40-CDD\_Ant5\_5510

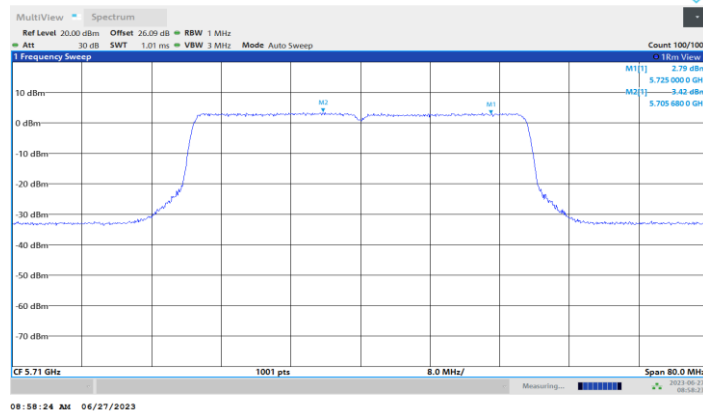


11BE40-CDD\_Ant6\_5510

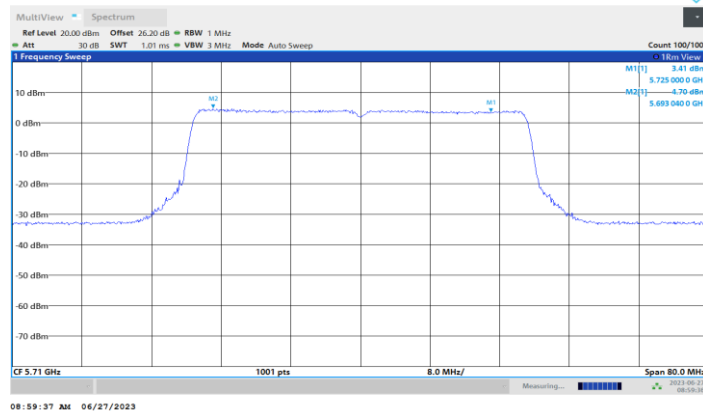




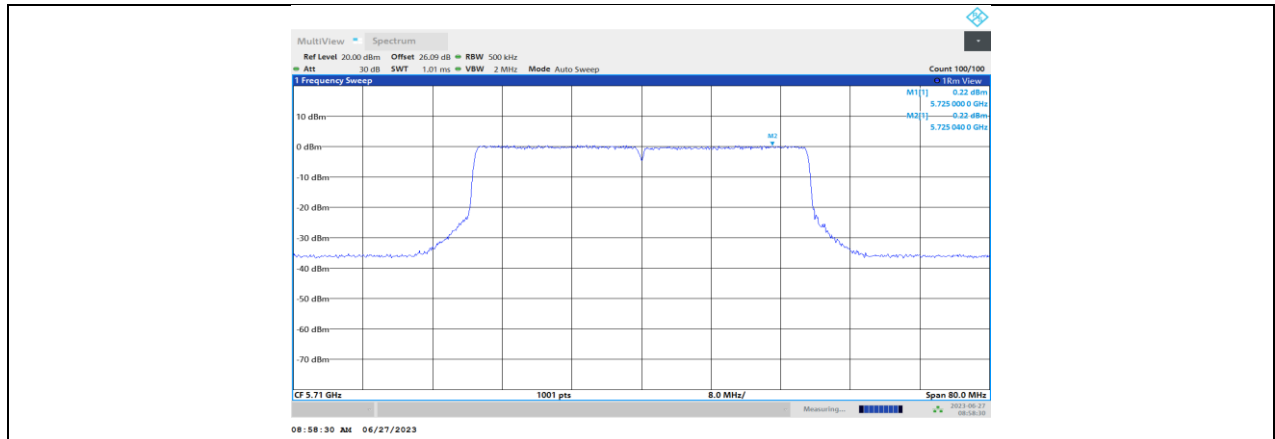
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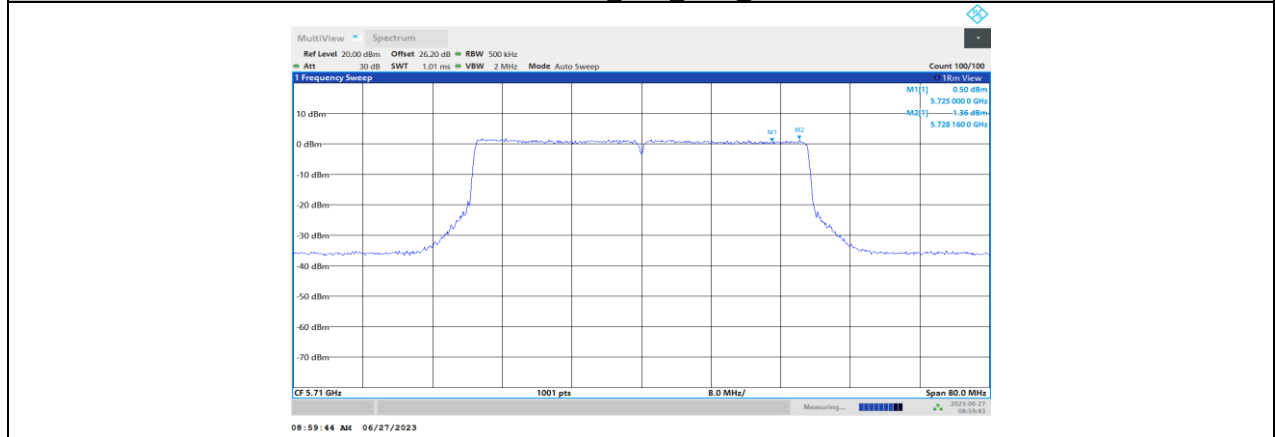
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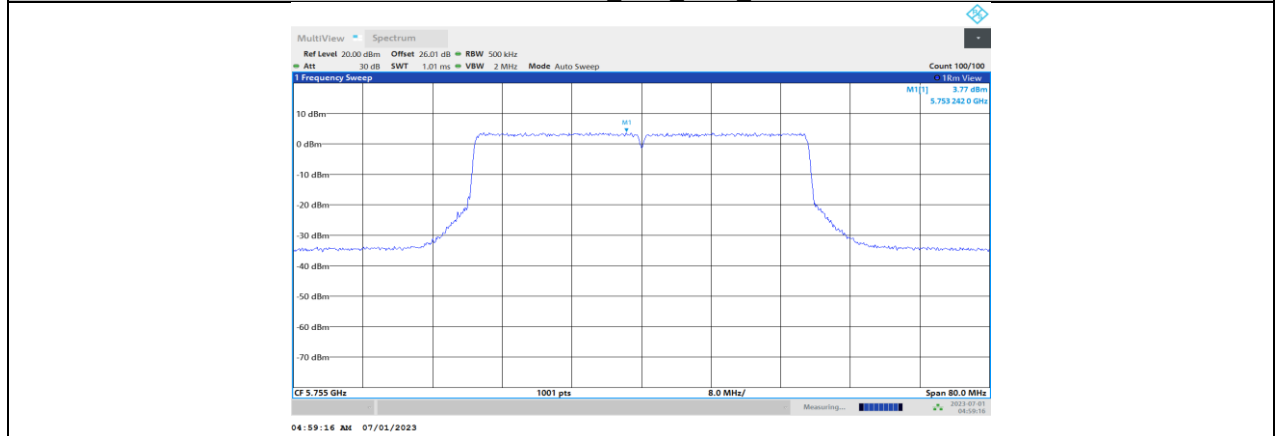
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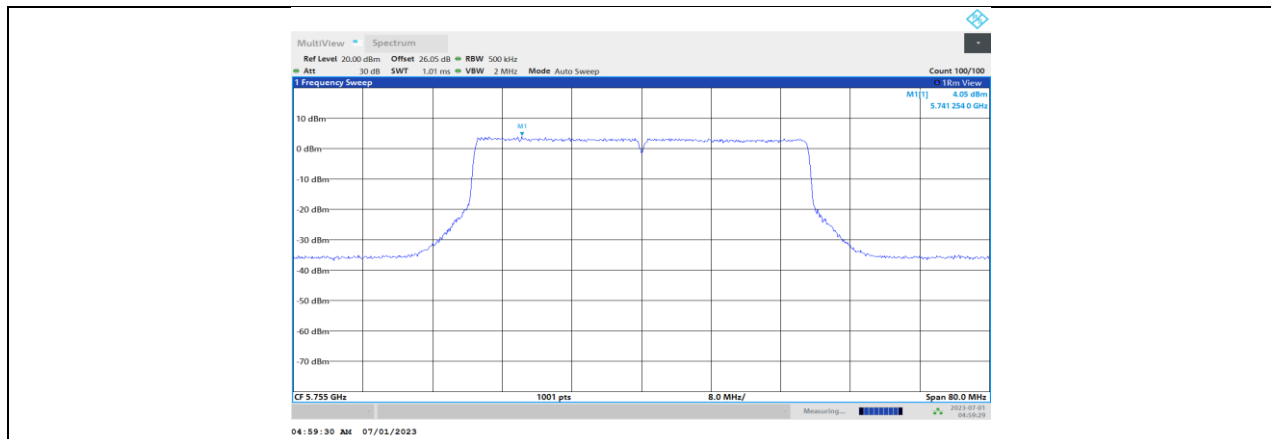
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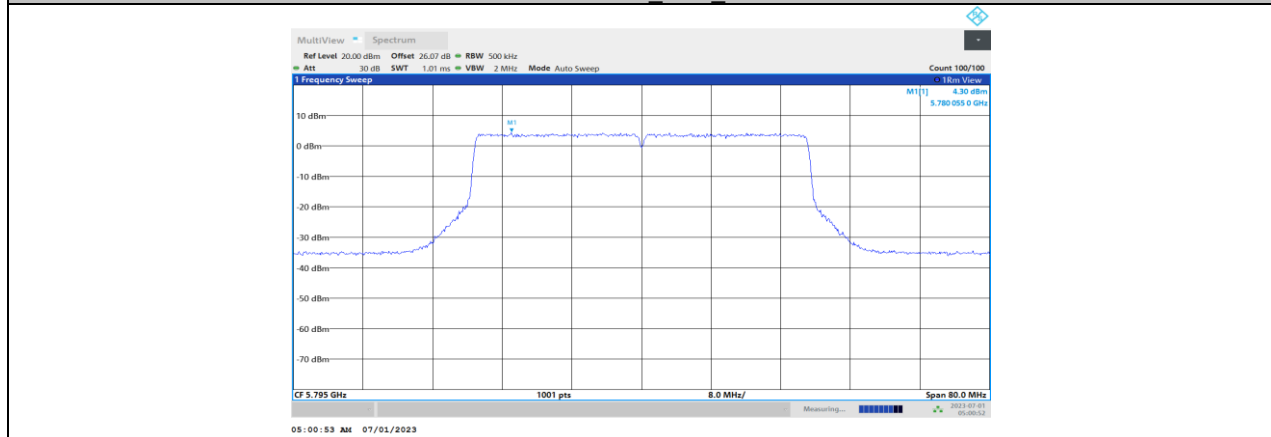
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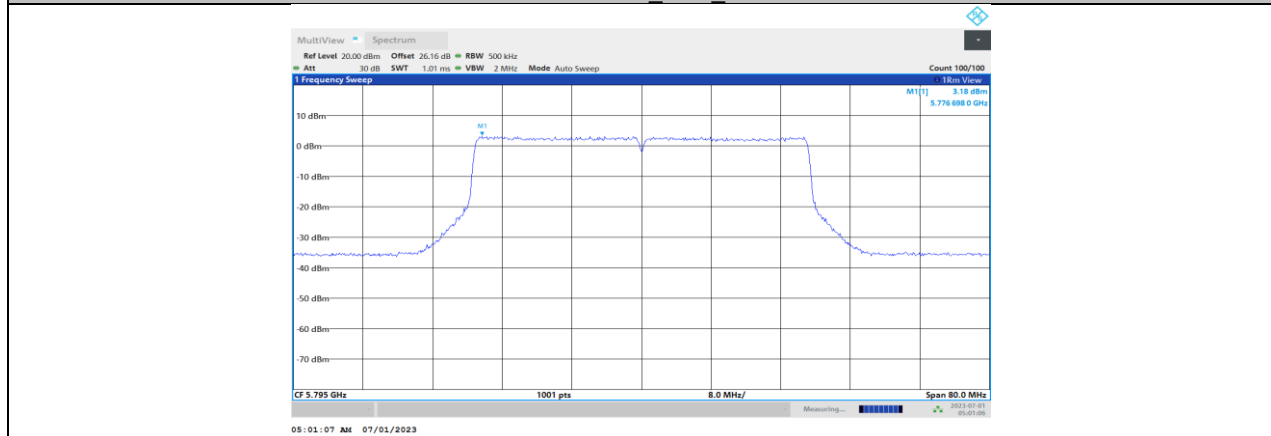
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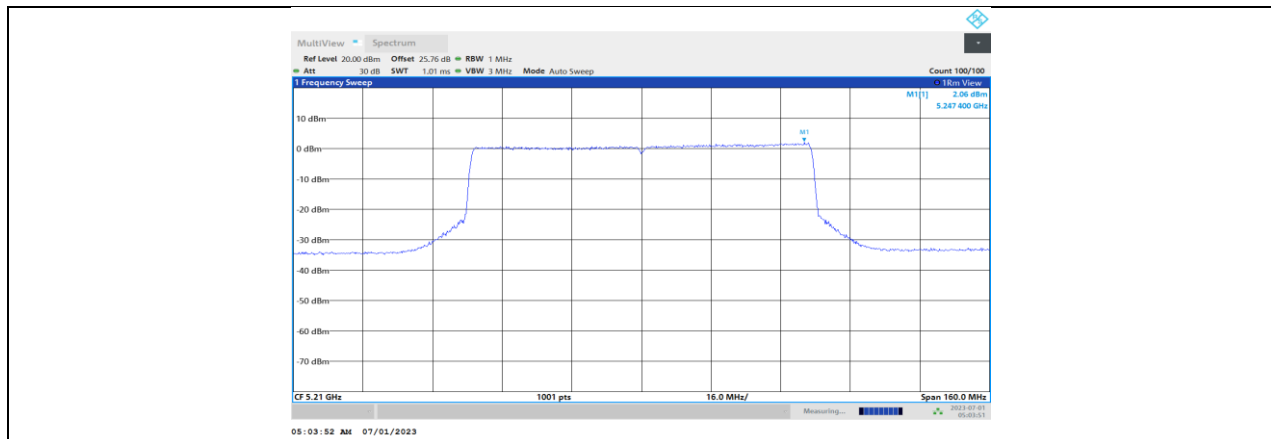
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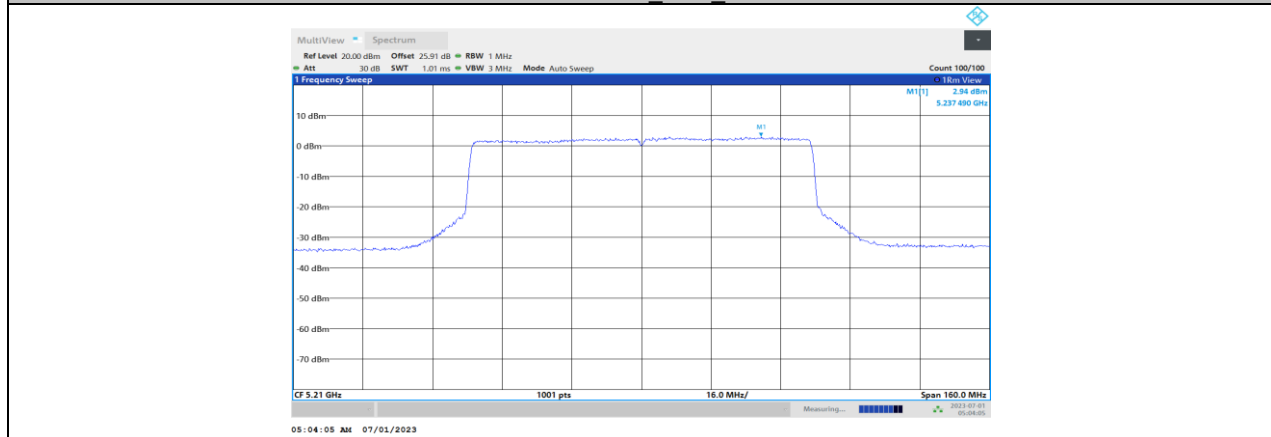
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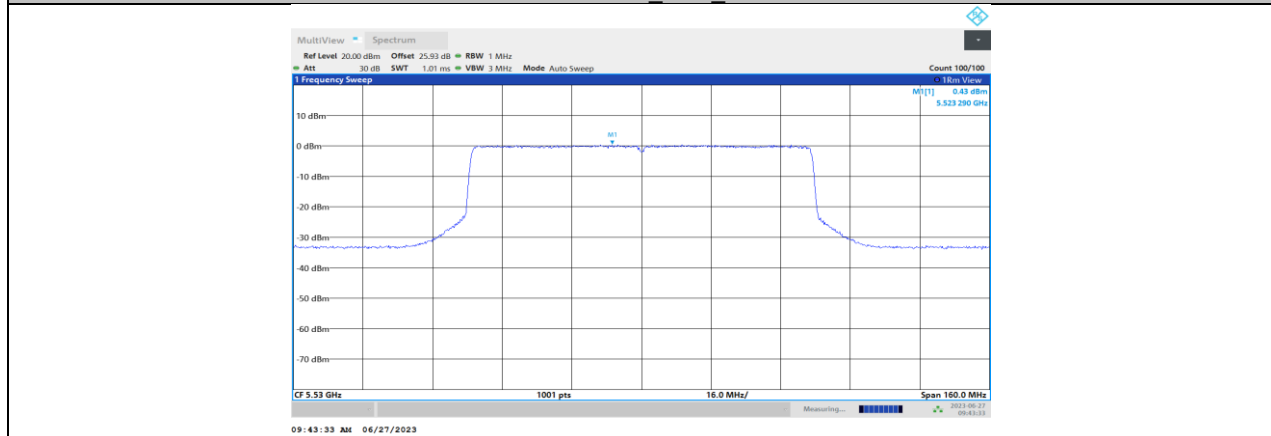
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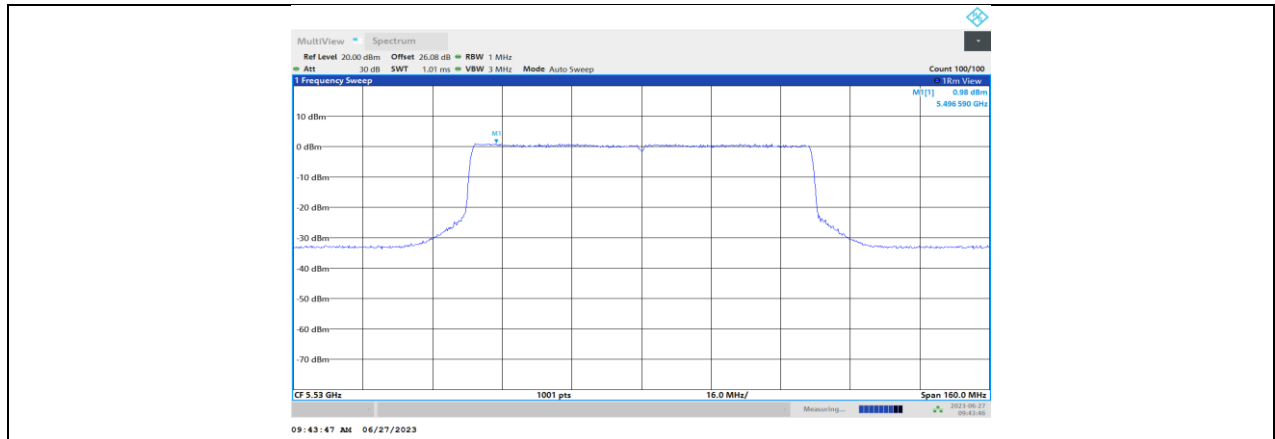
11BE80-CDD\_Ant5\_5210



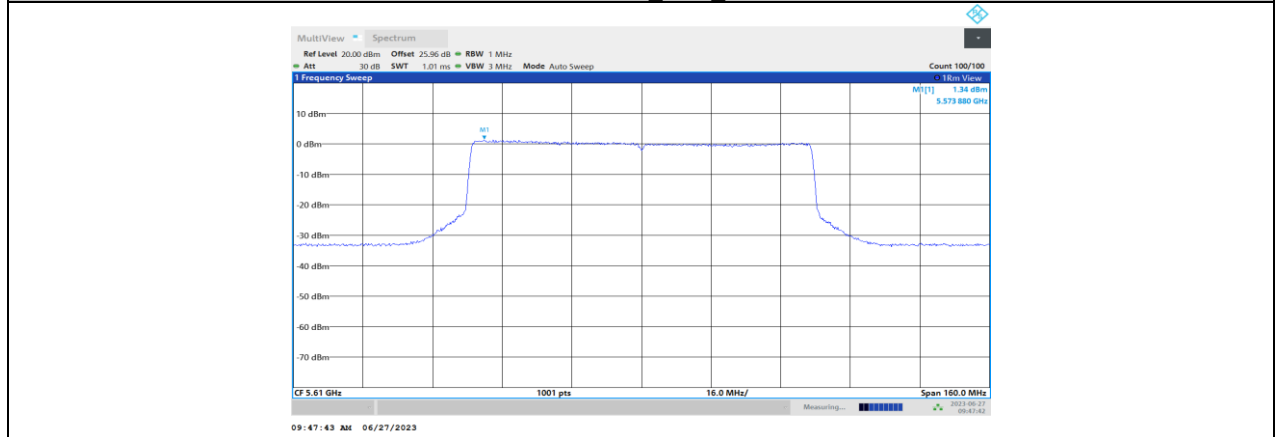
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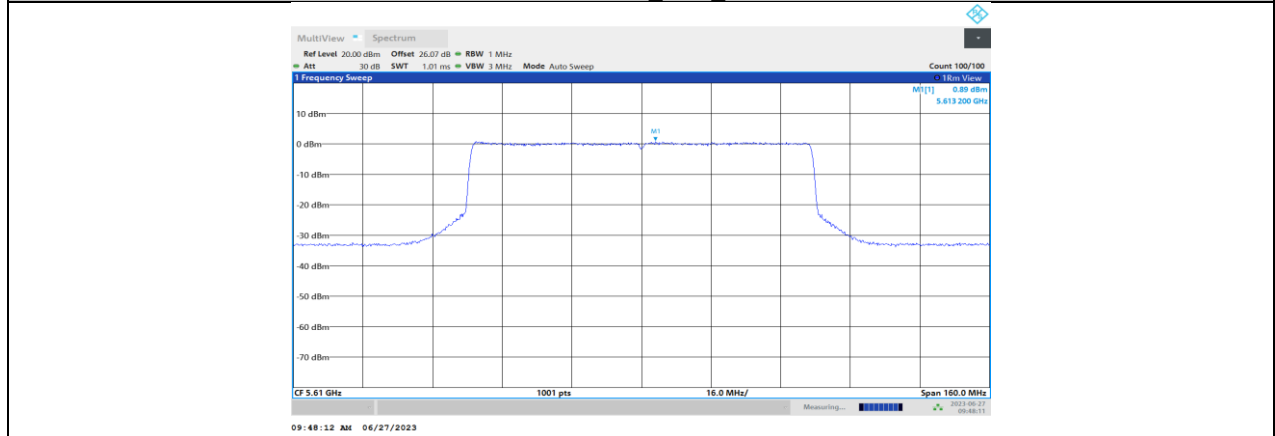
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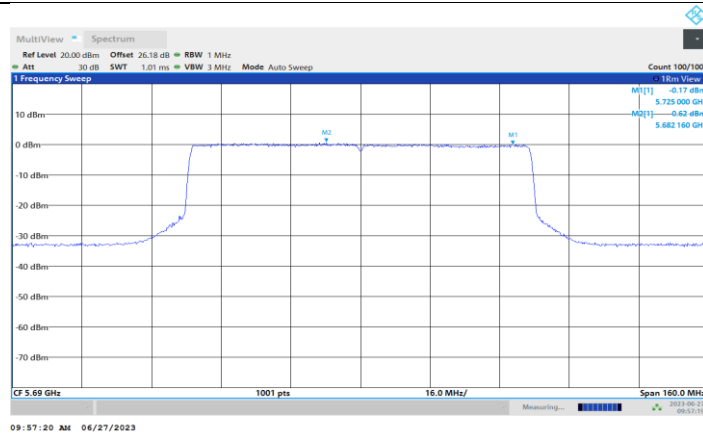
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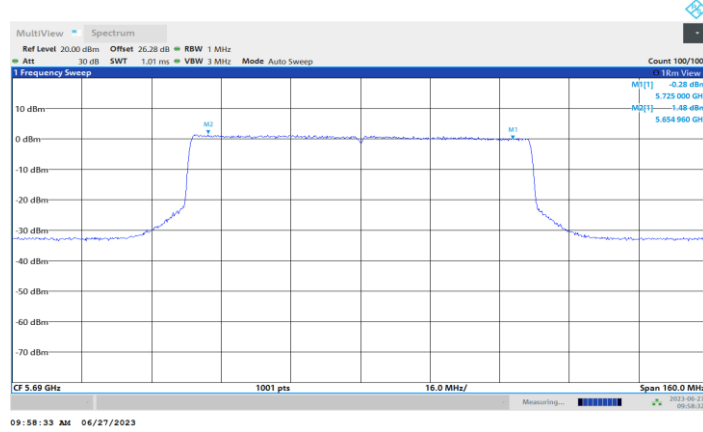
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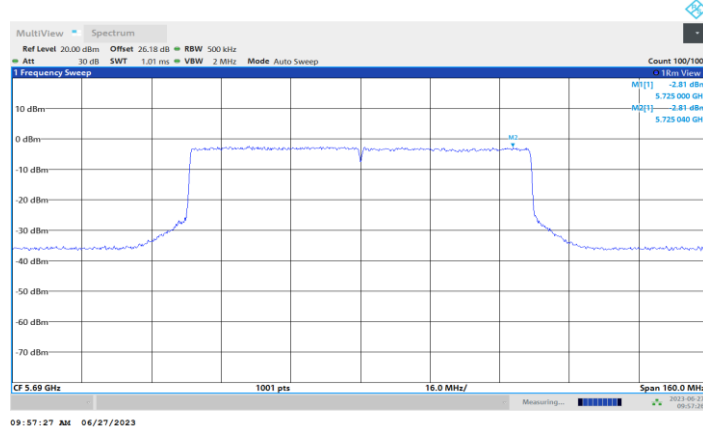
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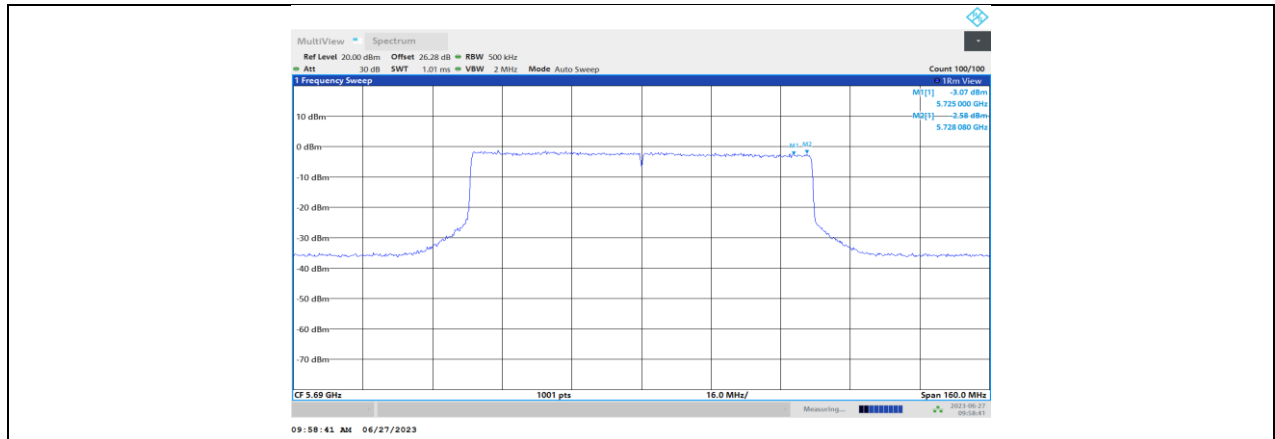
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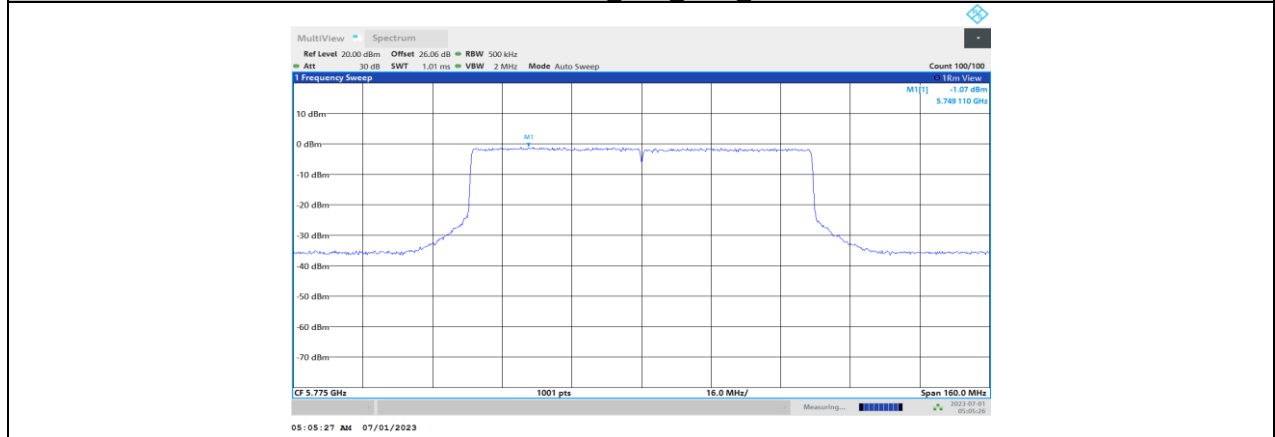
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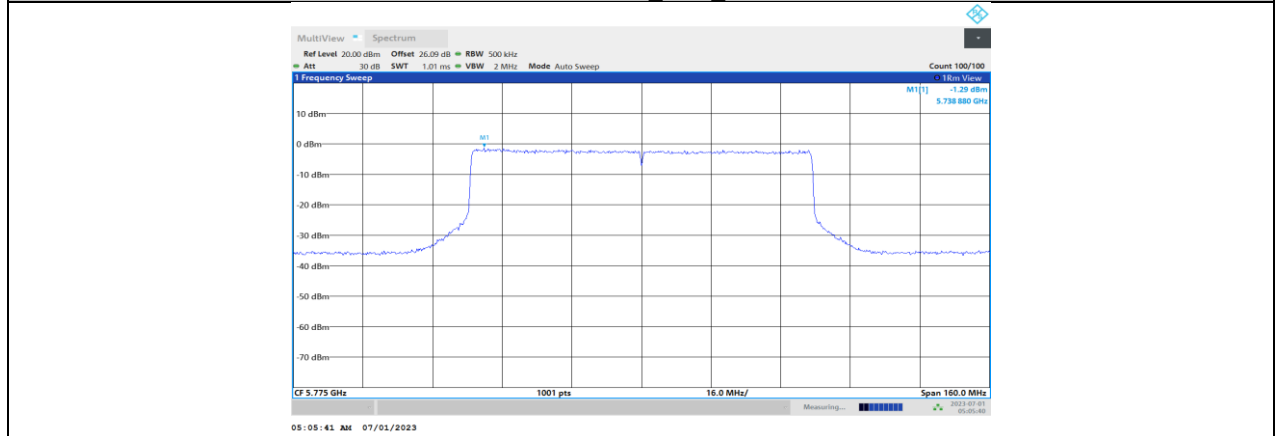
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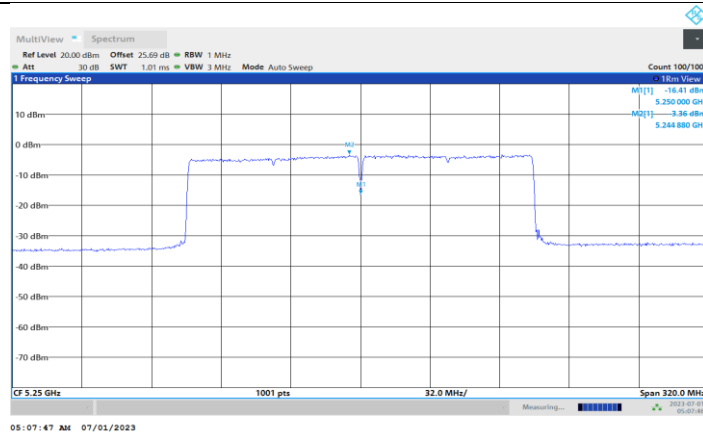
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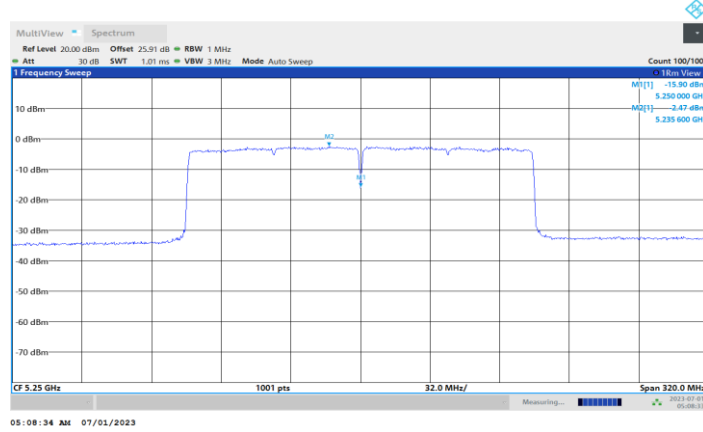
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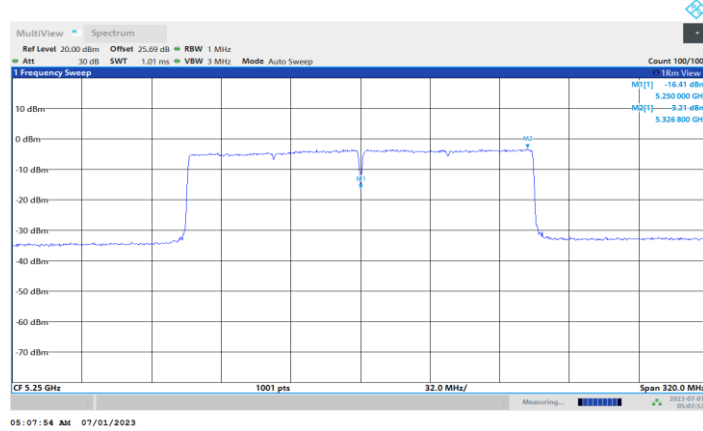
11BE80-CDD\_Ant6\_5775



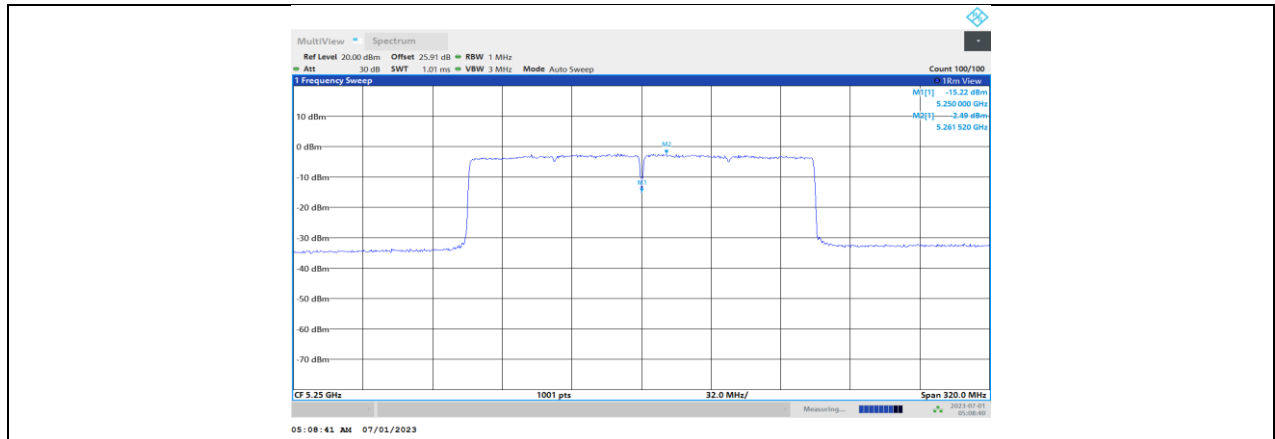
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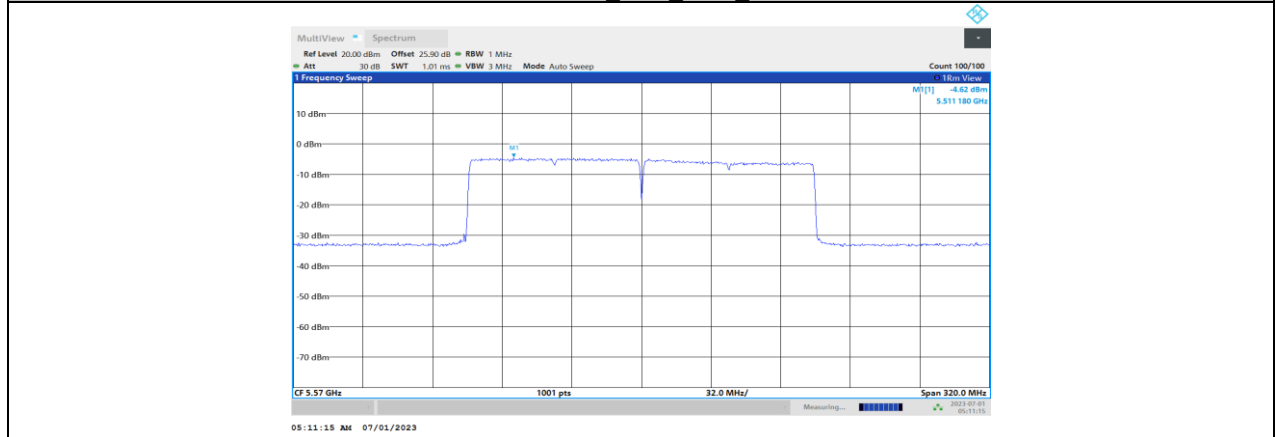
11BE160-CDD\_Ant6\_5250\_UNII-1



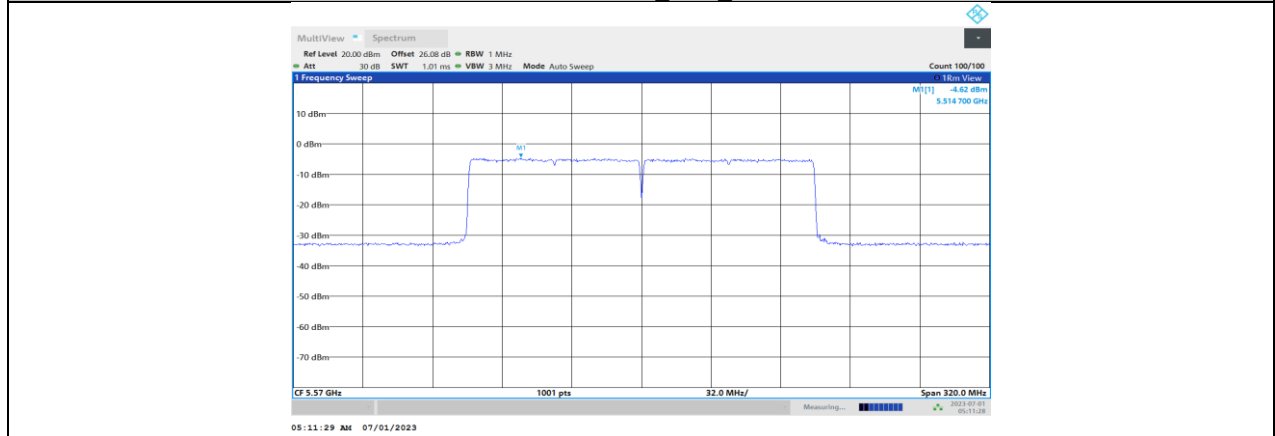
11BE160-CDD\_Ant5\_5250\_UNII-2A



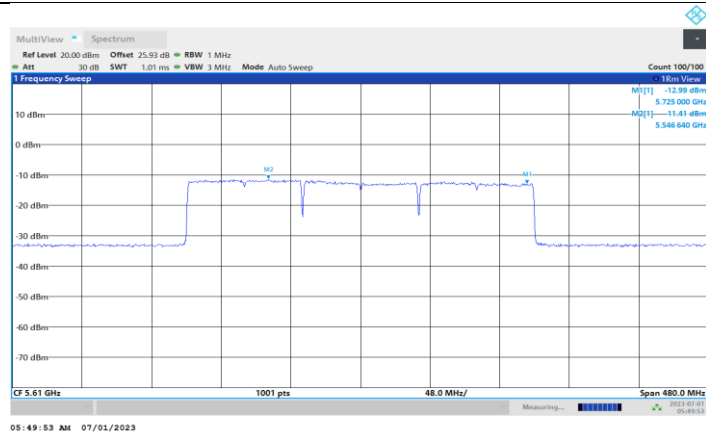
11BE160-CDD\_Ant6\_5250\_UNII-2A



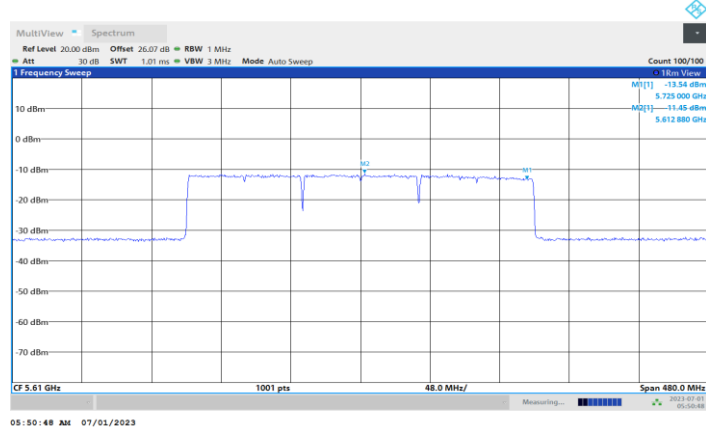
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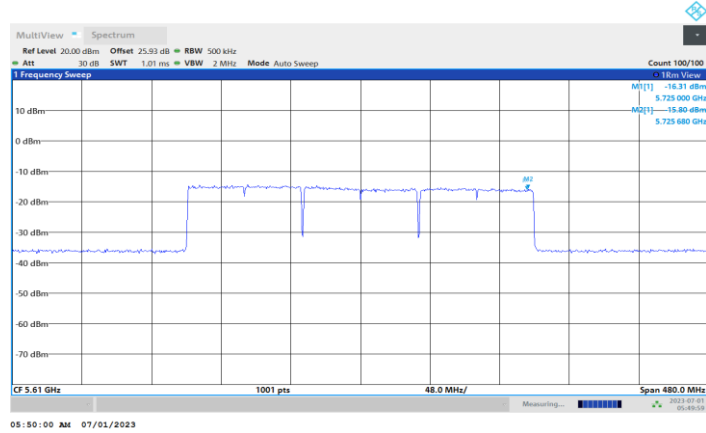
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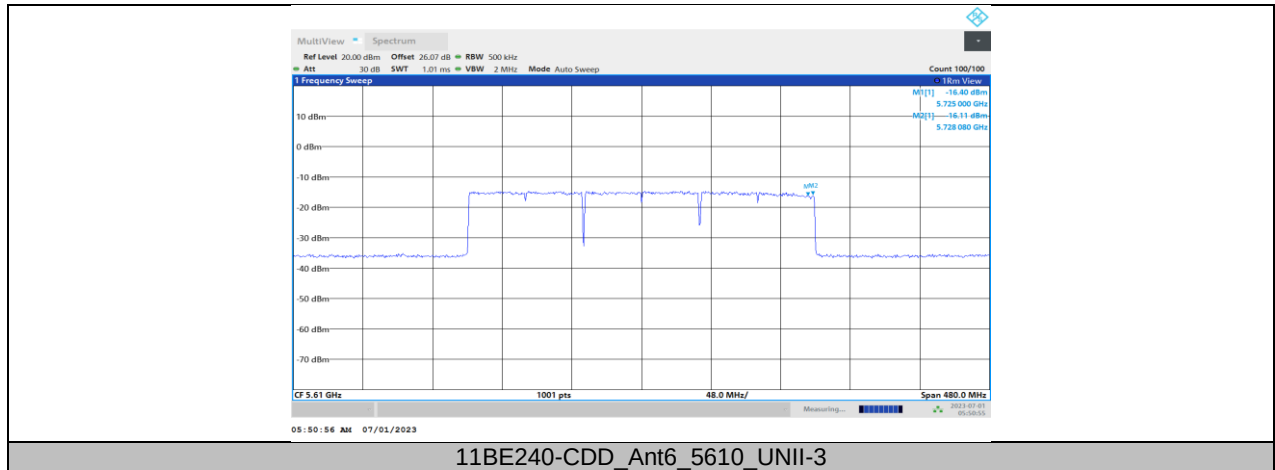
11BE240-CDD\_Ant5\_5610\_UNII-2C



11BE240-CDD\_Ant6\_5610\_UNII-2C



11BE240-CDD\_Ant5\_5610\_UNII-3



Note: All the modes had been tested, but only the worst data was recorded in the report.

## 11.6. APPENDIX G: FREQUENCY STABILITY

### 11.6.1. Test Result

| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a: 5180 MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 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    | 5180.0109        | 2.10            | 5180.0187        | 3.61            | 5179.9901        | -1.91           | 5180.0237        | 4.57            |
| TN                              | VN    | 5180.0217        | 4.19            | 5179.9803        | -3.81           | 5180.0219        | 4.22            | 5180.0121        | 2.34            |
| TN                              | VH    | 5180.0101        | 1.95            | 5180.0116        | 2.24            | 5179.9873        | -2.46           | 5180.0149        | 2.87            |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a: 5180 MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 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) |
| 40                              | VN    | 5179.9835        | -3.18           | 5180.0219        | 4.22            | 5180.0221        | 4.27            | 5179.9766        | -4.51           |
| 30                              | VN    | 5179.9976        | -0.45           | 5180.0093        | 1.80            | 5180.0249        | 4.81            | 5180.0057        | 1.10            |
| 20                              | VN    | 5180.0194        | 3.74            | 5180.0079        | 1.53            | 5180.0078        | 1.51            | 5180.0245        | 4.72            |
| 10                              | VN    | 5180.0122        | 2.36            | 5180.0237        | 4.58            | 5180.0208        | 4.01            | 5180.0204        | 3.94            |
| 0                               | VN    | 5180.0111        | 2.14            | 5180.0031        | 0.61            | 5179.9947        | -1.02           | 5180.0073        | 1.40            |

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 10 TEST ENVIRONMENT.

| Frequency Error vs. Voltage     |       |                  |                 |                  |                 |                  |                 |                  |                 |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a: 5825 MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 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    | 5825.0024        | 0.42            | 5824.9791        | -3.59           | 5824.9790        | -3.60           | 5825.0206        | 3.54            |
| TN                              | VN    | 5825.0044        | 0.75            | 5824.9928        | -1.23           | 5825.0132        | 2.27            | 5825.0194        | 3.33            |
| TN                              | VH    | 5825.0088        | 1.51            | 5825.0030        | 0.52            | 5825.0072        | 1.24            | 5825.0240        | 4.12            |
| Frequency Error vs. Temperature |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 802.11a: 5825 MHz               |       |                  |                 |                  |                 |                  |                 |                  |                 |
| 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) |
| 40                              | VN    | 5825.0084        | 1.45            | 5825.0041        | 0.70            | 5825.0187        | 3.20            | 5825.0087        | 1.50            |
| 30                              | VN    | 5825.0011        | 0.18            | 5825.0168        | 2.89            | 5824.9760        | -4.11           | 5824.9817        | -3.14           |
| 20                              | VN    | 5824.9900        | -1.71           | 5824.9963        | -0.63           | 5824.9930        | -1.21           | 5825.0223        | 3.82            |
| 10                              | VN    | 5824.9761        | -4.10           | 5824.9843        | -2.69           | 5824.9815        | -3.17           | 5825.0117        | 2.01            |
| 0                               | VN    | 5825.0202        | 3.46            | 5824.9888        | -1.92           | 5825.0064        | 1.09            | 5824.9980        | -0.34           |

**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 10 TEST ENVIRONMENT.

## 11.7. APPENDIX H: DUTY CYCLE

### 11.7.1. Test Result

| Test Mode   | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|-------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A-CDD     | 3.01           | 3.14          | 0.9586                | 95.86          | 0.18                              | 0.33                  | 0.5                         |
| 11AX20-CDD  | 3.92           | 4.00          | 0.9800                | 98.00          | 0.09                              | 0.26                  | 0.01                        |
| 11AX40-CDD  | 3.94           | 4.02          | 0.9801                | 98.01          | 0.09                              | 0.25                  | 0.01                        |
| 11AX80-CDD  | 3.98           | 4.07          | 0.9779                | 97.79          | 0.10                              | 0.25                  | 0.5                         |
| 11AX160-CDD | 3.93           | 4.01          | 0.9800                | 98.00          | 0.09                              | 0.25                  | 0.01                        |
| 11BE20-CDD  | 3.93           | 4.02          | 0.9776                | 97.76          | 0.10                              | 0.25                  | 0.5                         |
| 11BE40-CDD  | 3.95           | 4.03          | 0.9801                | 98.01          | 0.09                              | 0.25                  | 0.01                        |
| 11BE80-CDD  | 3.99           | 4.11          | 0.9708                | 97.08          | 0.13                              | 0.25                  | 0.5                         |
| 11BE160-CDD | 3.89           | 3.97          | 0.9798                | 97.98          | 0.09                              | 0.26                  | 0.5                         |
| 11BE240-CDD | 3.49           | 3.57          | 0.9776                | 97.76          | 0.10                              | 0.29                  | 0.5                         |

Note:

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

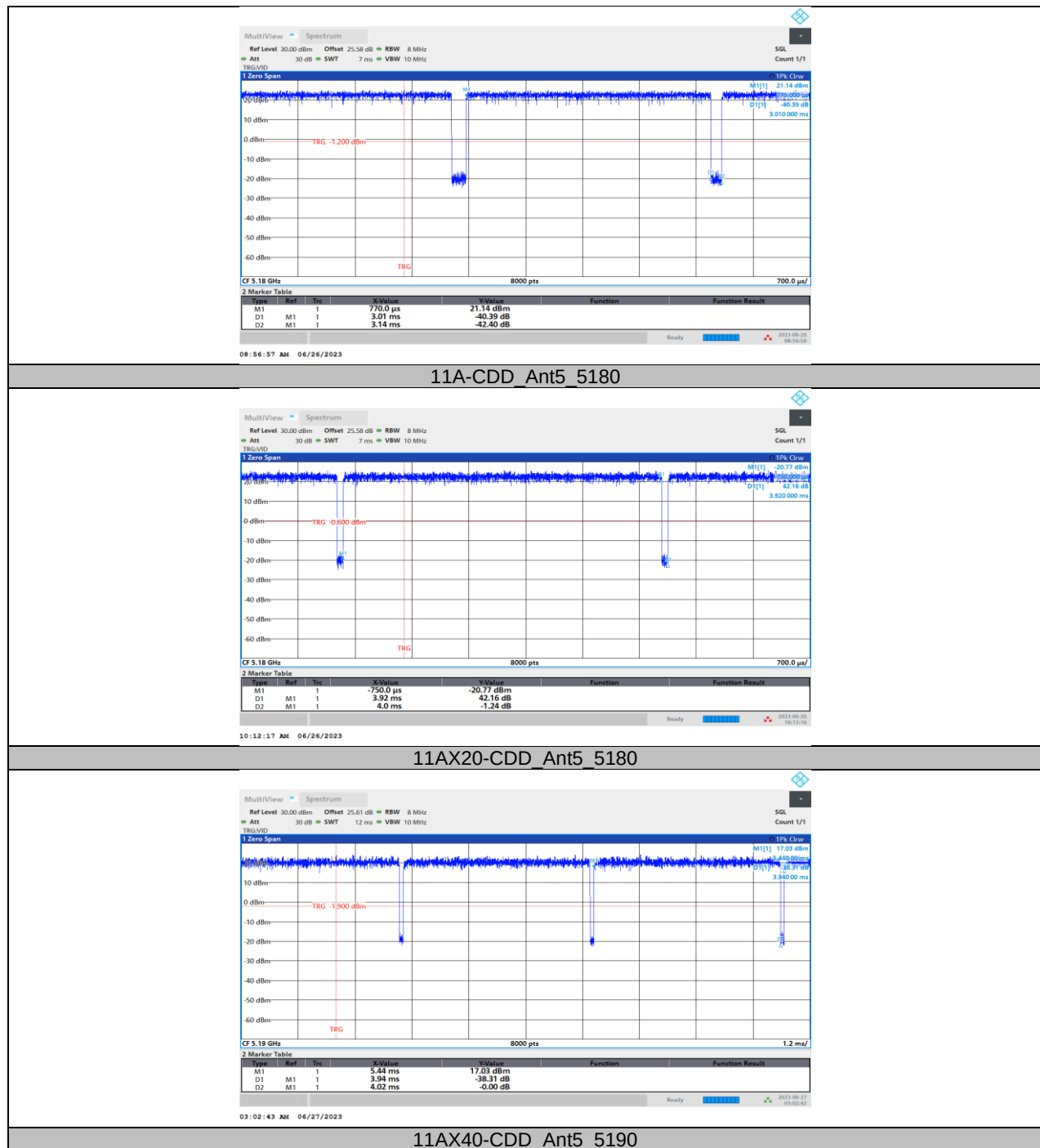
Where: x is Duty Cycle (Linear)

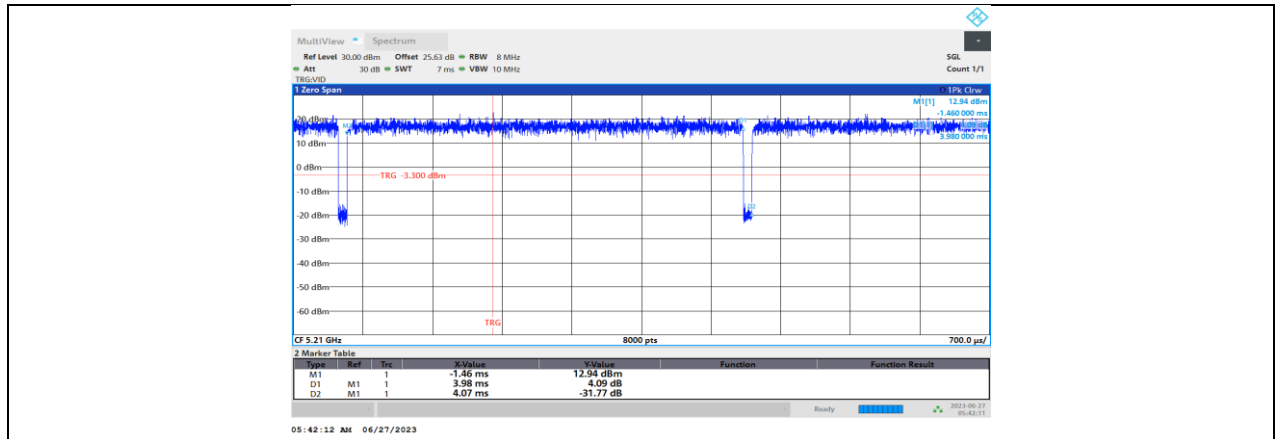
Where: T is On Time

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

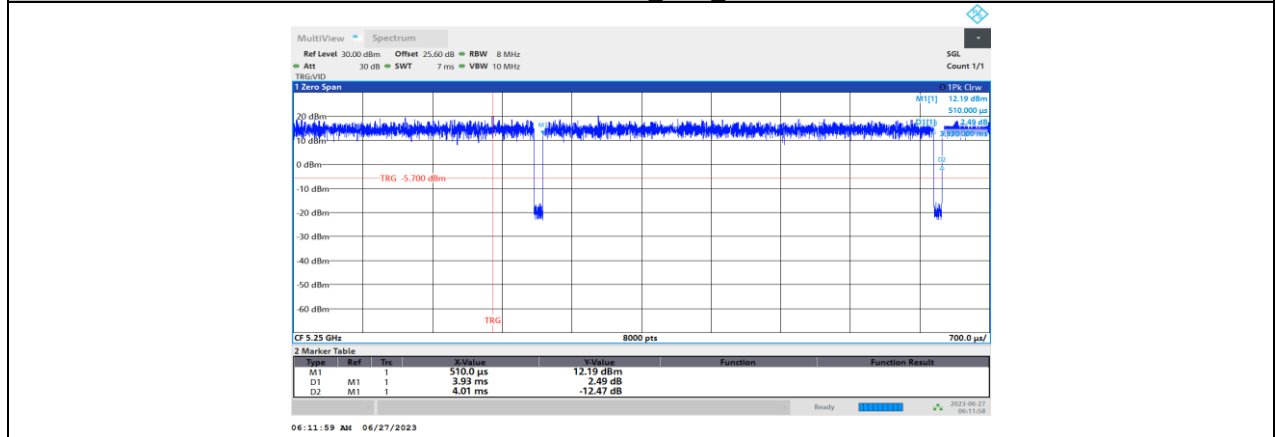
Note: All the modes had been tested, but only the worst data was recorded in the report.

## 11.7.2. Test Graphs

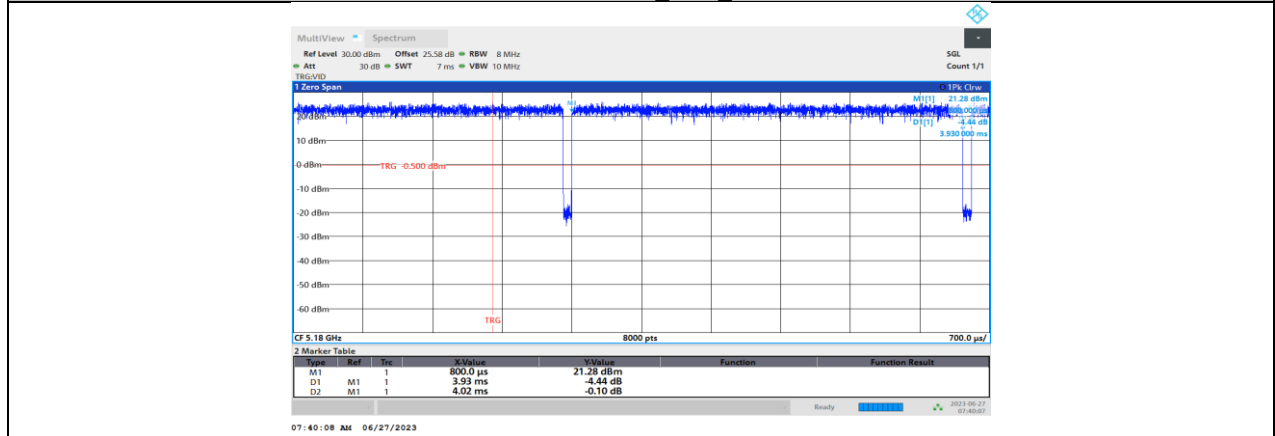




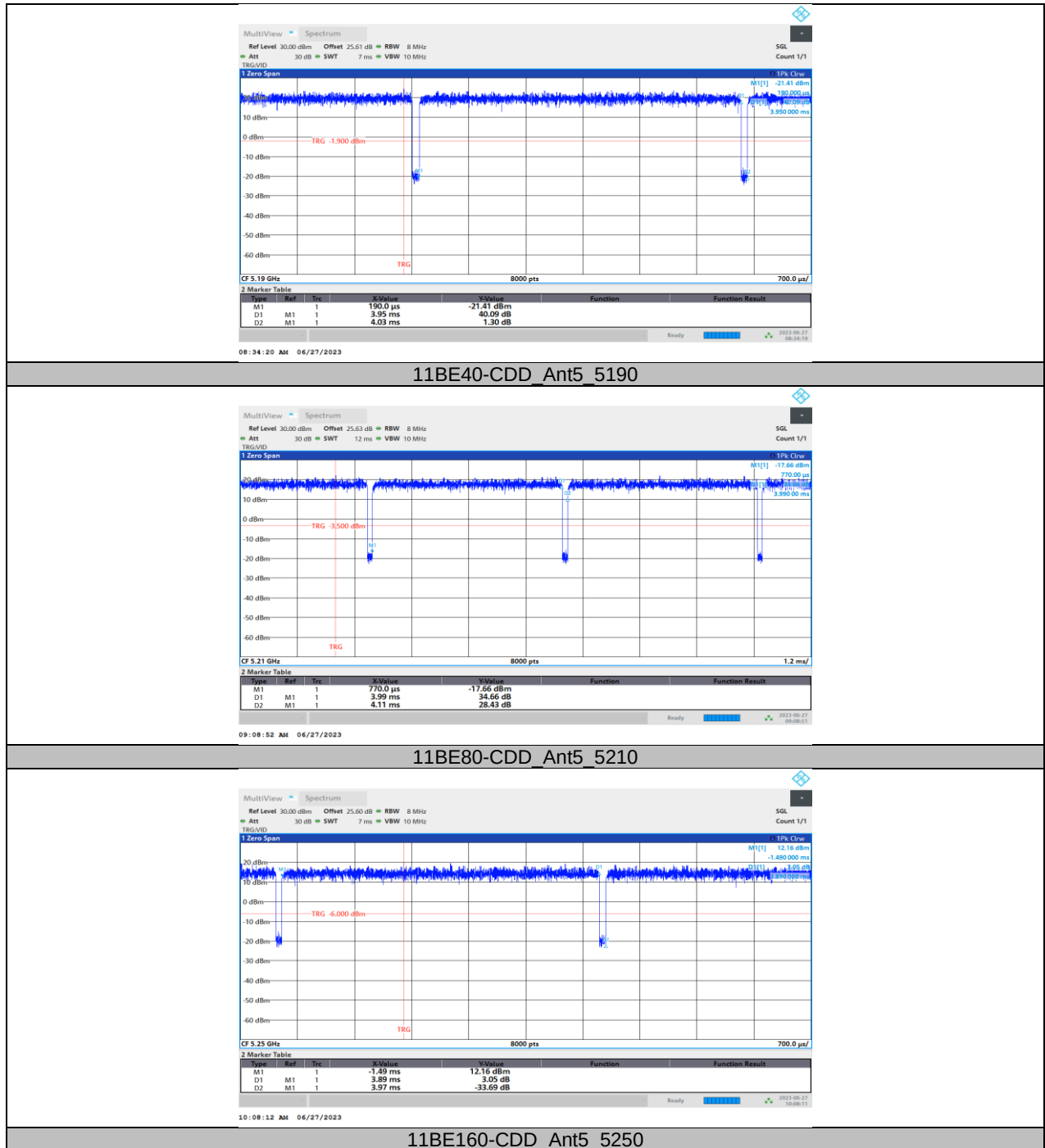
11AX80-CDD\_Ant5\_5210

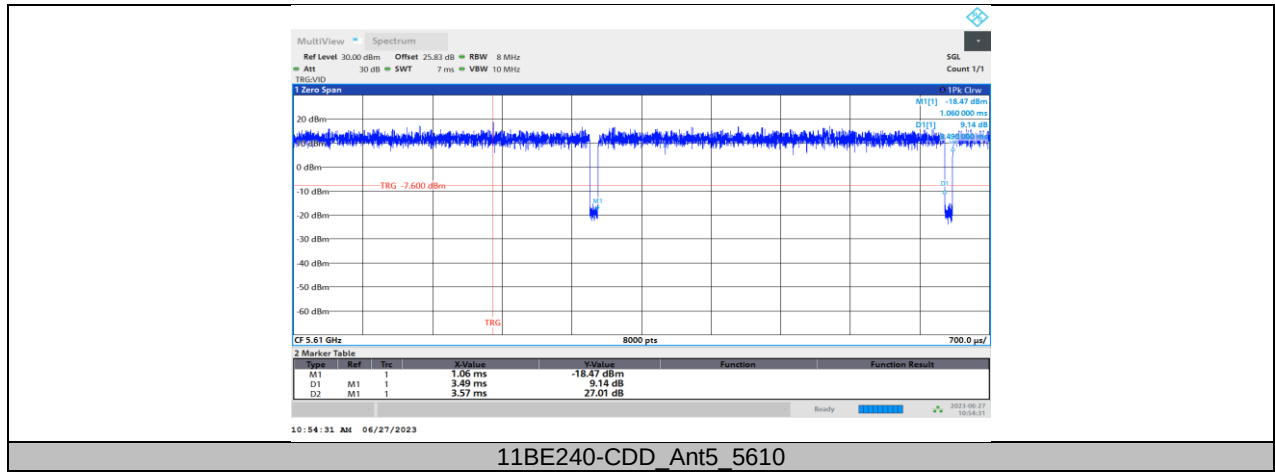


11AX160-CDD\_Ant5\_5250



11BE20-CDD\_Ant5\_5180





END OF REPORT