|  | Ant1 | 5201 | 3.46 | ≤11.00 | PASS |
|---|---|---|---|---|---|
|  | total | 5201 | 7.18 | ≤11.00 | PASS |
|  | Ant0 | 5240 | 4.67 | ≤11.00 | PASS |
|  | Ant1 | 5240 | 3.15 | ≤11.00 | PASS |
|  | total | 5240 | 6.99 | ≤11.00 | PASS |
|  | Ant0 | 5735.5 | 12.79 | ≤30.00 | PASS |
|  | Ant1 | 5735.5 | 11.58 | ≤30.00 | PASS |
|  | total | 5735.5 | 15.24 | ≤30.00 | PASS |
|  | Ant0 | 5787.5 | 12.07 | ≤30.00 | PASS |
|  | Ant1 | 5787.5 | 11.71 | ≤30.00 | PASS |
|  | total | 5787.5 | 14.90 | ≤30.00 | PASS |
|  | Ant0 | 5839.5 | 12.12 | ≤30.00 | PASS |
|  | Ant1 | 5839.5 | 11.45 | ≤30.00 | PASS |
|  | total | 5839.5 | 14.81 | ≤30.00 | PASS |
| SRD 40M | Ant0 | 5170 | -6.81 | ≤11.00 | PASS |
|  | Ant1 | 5170 | -7.96 | ≤11.00 | PASS |
|  | total | 5170 | -4.34 | ≤11.00 | PASS |
|  | Ant0 | 5171 | -4.79 | ≤11.00 | PASS |
|  | Ant1 | 5171 | -5.84 | ≤11.00 | PASS |
|  | total | 5171 | -2.27 | ≤11.00 | PASS |
|  | Ant0 | 5173 | -2.82 | ≤11.00 | PASS |
|  | Ant1 | 5173 | -3.45 | ≤11.00 | PASS |
|  | total | 5173 | -0.11 | ≤11.00 | PASS |
|  | Ant0 | 5177 | -0.82 | ≤11.00 | PASS |
|  | Ant1 | 5177 | -1.37 | ≤11.00 | PASS |
|  | total | 5177 | 1.92 | ≤11.00 | PASS |
|  | Ant0 | 5187 | 1.59 | ≤11.00 | PASS |
|  | Ant1 | 5187 | 1.15 | ≤11.00 | PASS |
|  | total | 5187 | 4.39 | ≤11.00 | PASS |
|  | Ant0 | 5200 | 1.34 | ≤11.00 | PASS |
|  | Ant1 | 5200 | 1.25 | ≤11.00 | PASS |
|  | total | 5200 | 4.31 | ≤11.00 | PASS |
|  | Ant0 | 5230 | 1.64 | ≤11.00 | PASS |
|  | Ant1 | 5230 | 1.04 | ≤11.00 | PASS |
|  | total | 5230 | 4.36 | ≤11.00 | PASS |
|  | Ant0 | 5745.5 | 7.30 | ≤30.00 | PASS |
|  | Ant1 | 5745.5 | 7.44 | ≤30.00 | PASS |
|  | total | 5745.5 | 10.38 | ≤30.00 | PASS |
|  | Ant0 | 5787.5 | 9.09 | ≤30.00 | PASS |
|  | Ant1 | 5787.5 | 8.83 | ≤30.00 | PASS |
|  | total | 5787.5 | 11.97 | ≤30.00 | PASS |
|  | Ant0 | 5829.5 | 6.34 | ≤30.00 | PASS |
|  | Ant1 | 5829.5 | 6.23 | ≤30.00 | PASS |
|  | total | 5829.5 | 9.30 | ≤30.00 | PASS |
| SRD 60M | Ant0 | 5180 | -6.31 | ≤11.00 | PASS |
|  | Ant1 | 5180 | -7.34 | ≤11.00 | PASS |
|  | total | 5180 | -3.78 | ≤11.00 | PASS |
|  | Ant0 | 5182 | -4.48 | ≤11.00 | PASS |
|  | Ant1 | 5182 | -6.29 | ≤11.00 | PASS |
|  | total | 5182 | -2.28 | ≤11.00 | PASS |
|  | Ant0 | 5186 | -3.57 | ≤11.00 | PASS |
|  | Ant1 | 5186 | -4.84 | ≤11.00 | PASS |
|  | total | 5186 | -1.15 | ≤11.00 | PASS |
|  | Ant0 | 5191 | -2.27 | ≤11.00 | PASS |
|  | Ant1 | 5191 | -2.80 | ≤11.00 | PASS |
|  | total | 5191 | 0.48 | ≤11.00 | PASS |
|  | Ant0 | 5195 | 0.22 | ≤11.00 | PASS |
|  | Ant1 | 5195 | -0.88 | ≤11.00 | PASS |
|  | total | 5195 | 2.72 | ≤11.00 | PASS |
|  | Ant0 | 5200 | -0.02 | ≤11.00 | PASS |

| | | | | | |
|---|---|---|---|---|---|
| | Ant1 | 5200 | -0.40 | ≤11.00 | PASS |
| | total | 5200 | 2.80 | ≤11.00 | PASS |
| | Ant0 | 5220 | -0.46 | ≤11.00 | PASS |
| | Ant1 | 5220 | -0.42 | ≤11.00 | PASS |
| | total | 5220 | 2.57 | ≤11.00 | PASS |
| | Ant0 | 5755.5 | 5.39 | ≤30.00 | PASS |
| | Ant1 | 5755.5 | 5.47 | ≤30.00 | PASS |
| | total | 5755.5 | 8.44 | ≤30.00 | PASS |
| | Ant0 | 5787.5 | 5.90 | ≤30.00 | PASS |
| | Ant1 | 5787.5 | 5.57 | ≤30.00 | PASS |
| | total | 5787.5 | 8.75 | ≤30.00 | PASS |
| | Ant0 | 5819.5 | 5.43 | ≤30.00 | PASS |
| | Ant1 | 5819.5 | 5.04 | ≤30.00 | PASS |
| | total | 5819.5 | 8.25 | ≤30.00 | PASS |
| SRD 80M | Ant0 | 5190 | -5.63 | ≤11.00 | PASS |
| | Ant1 | 5190 | -6.95 | ≤11.00 | PASS |
| | total | 5190 | -3.23 | ≤11.00 | PASS |
| | Ant0 | 5192 | -4.15 | ≤11.00 | PASS |
| | Ant1 | 5192 | -5.58 | ≤11.00 | PASS |
| | total | 5192 | -1.80 | ≤11.00 | PASS |
| | Ant0 | 5195 | -2.67 | ≤11.00 | PASS |
| | Ant1 | 5195 | -3.70 | ≤11.00 | PASS |
| | total | 5195 | -0.14 | ≤11.00 | PASS |
| | Ant0 | 5200 | -0.45 | ≤11.00 | PASS |
| | Ant1 | 5200 | -2.51 | ≤11.00 | PASS |
| | total | 5200 | 1.65 | ≤11.00 | PASS |
| | Ant0 | 5210 | -0.87 | ≤11.00 | PASS |
| | Ant1 | 5210 | -1.49 | ≤11.00 | PASS |
| | total | 5210 | 1.84 | ≤11.00 | PASS |
| | Ant0 | 5765.5 | 4.76 | ≤30.00 | PASS |
| | Ant1 | 5765.5 | 5.49 | ≤30.00 | PASS |
| | total | 5765.5 | 8.15 | ≤30.00 | PASS |
| | Ant0 | 5787.5 | 5.62 | ≤30.00 | PASS |
| | Ant1 | 5787.5 | 5.74 | ≤30.00 | PASS |
| | total | 5787.5 | 8.69 | ≤30.00 | PASS |
| | Ant0 | 5809.5 | 5.81 | ≤30.00 | PASS |
| | Ant1 | 5809.5 | 5.71 | ≤30.00 | PASS |
| | total | 5809.5 | 8.77 | ≤30.00 | PASS |

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725−5.85 GHz.
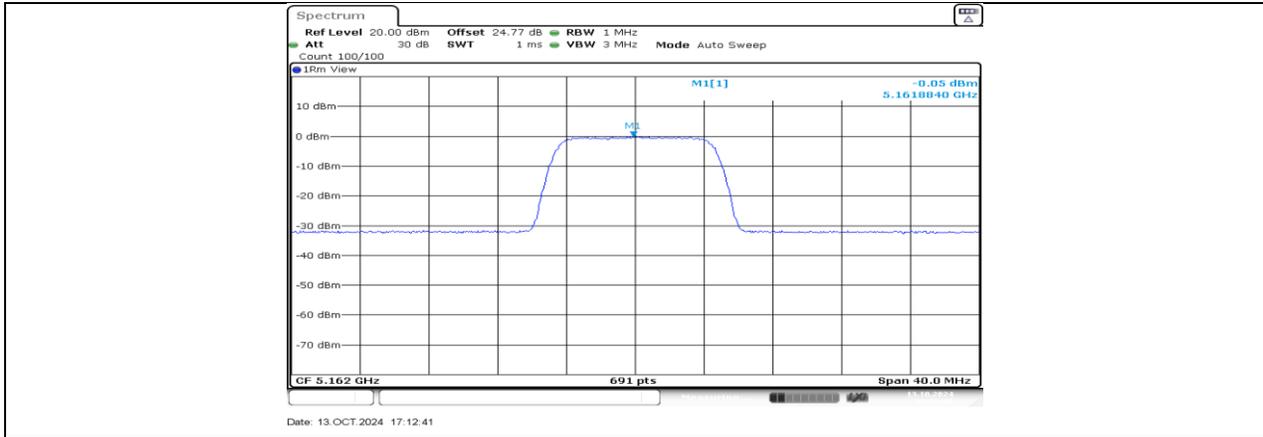   2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

## 11.5.2. Test Graphs



SRD 10M_Ant0_5157



SRD 10M_Ant1_5157



SRD 10M_Ant0_5158

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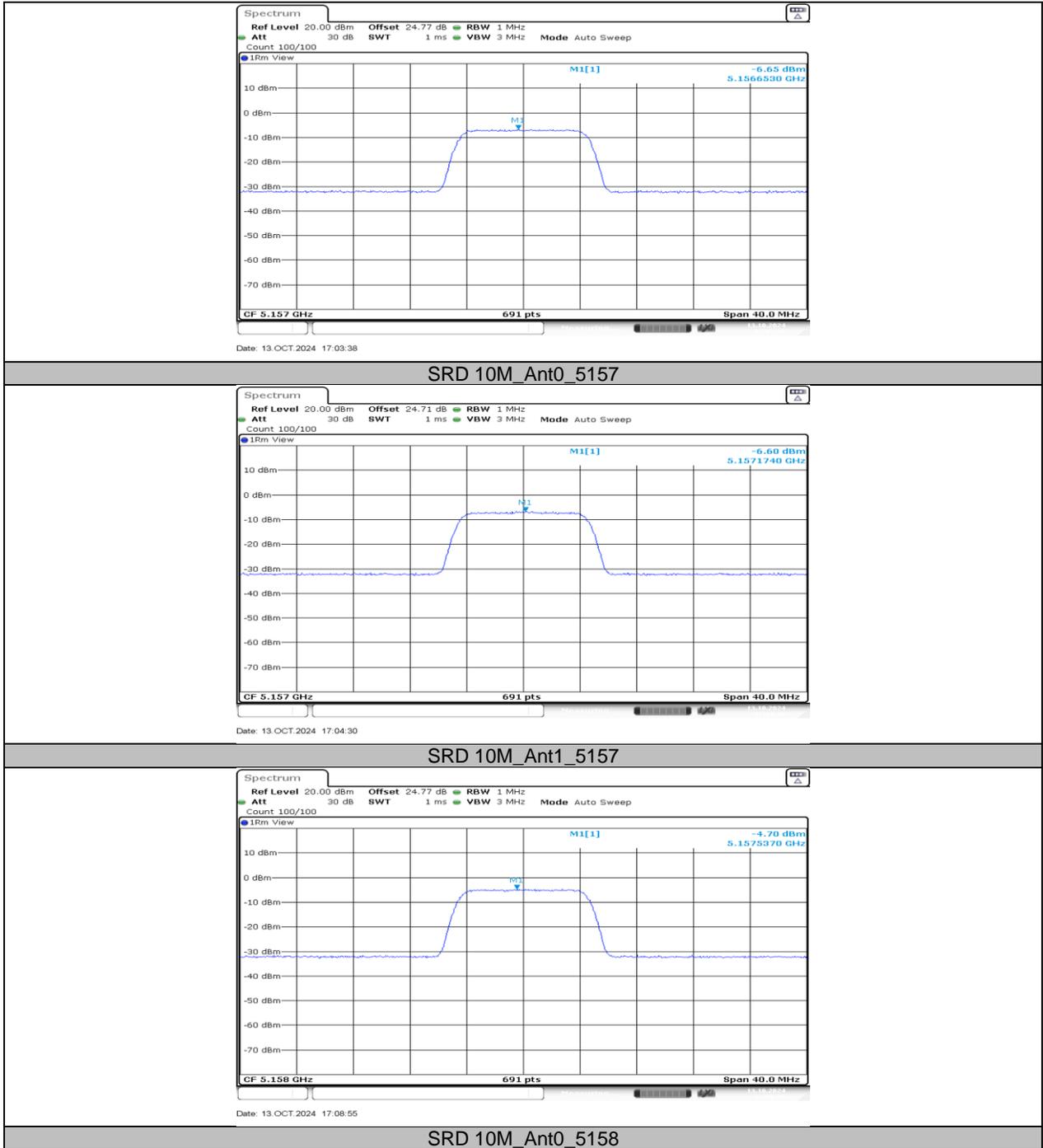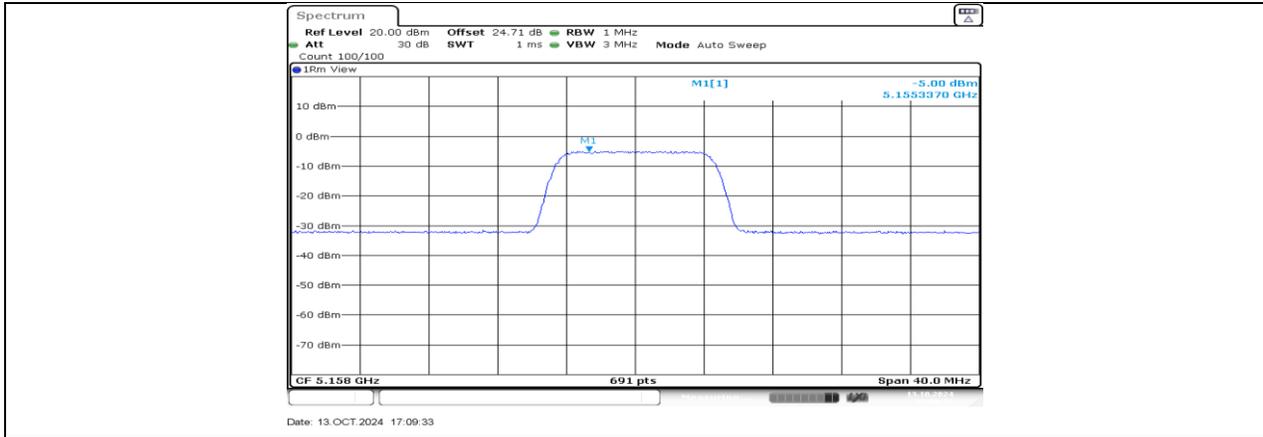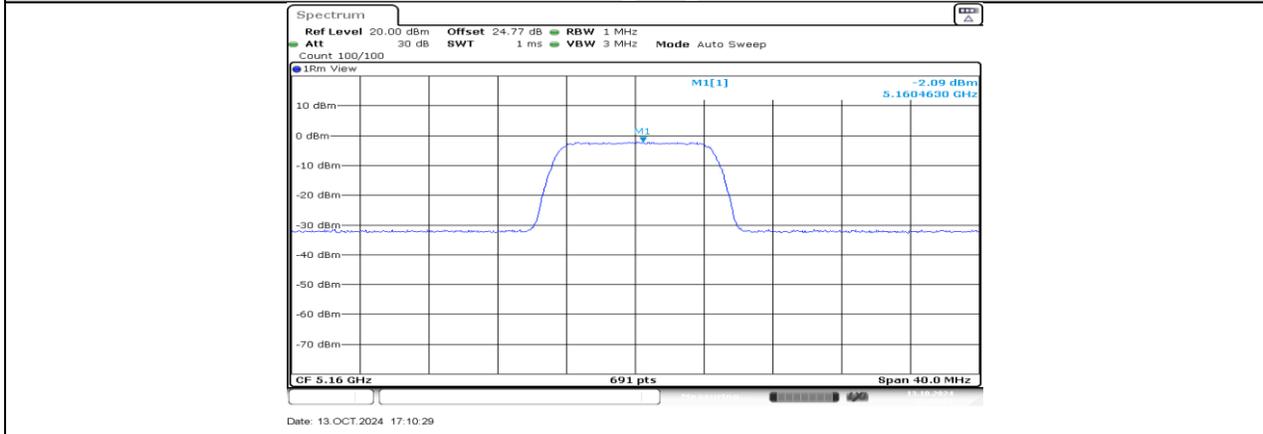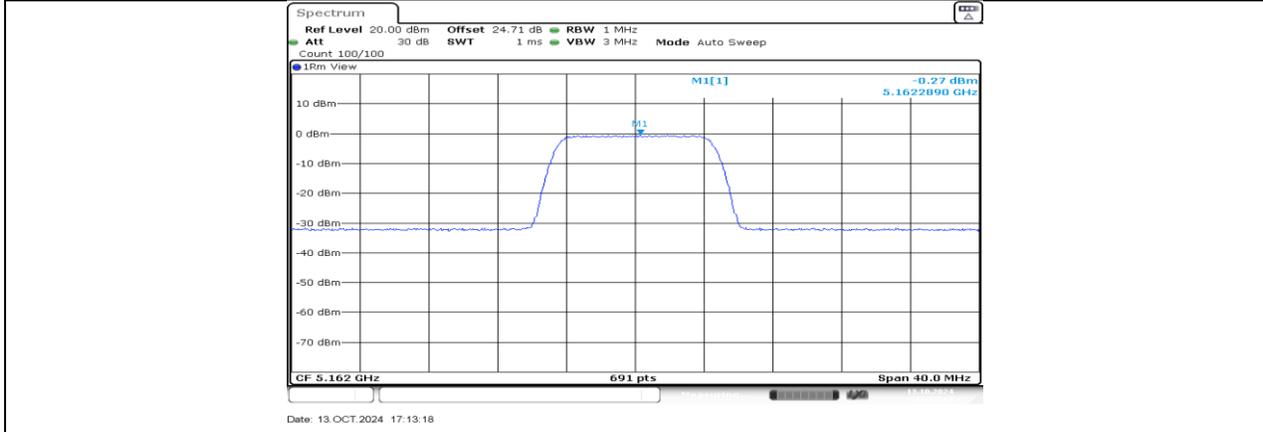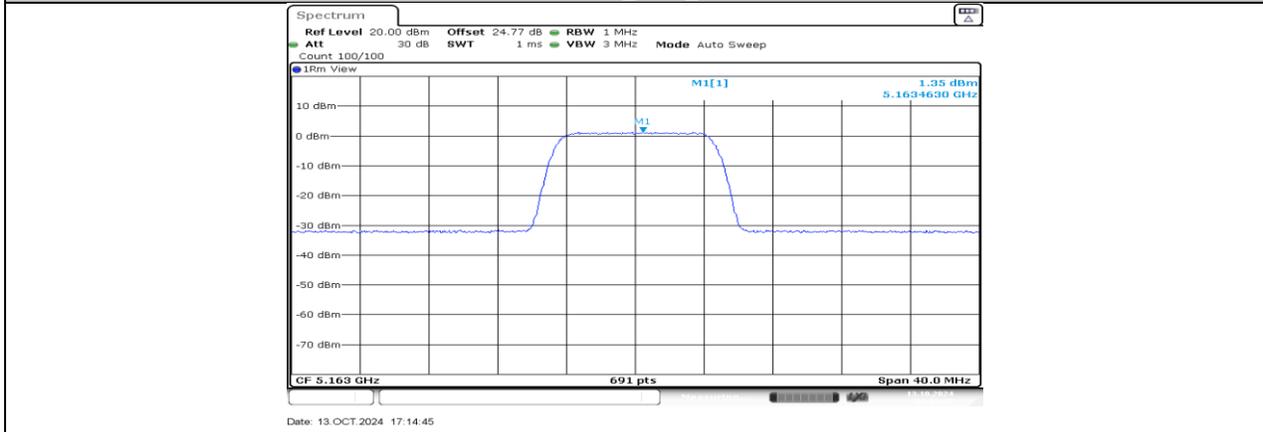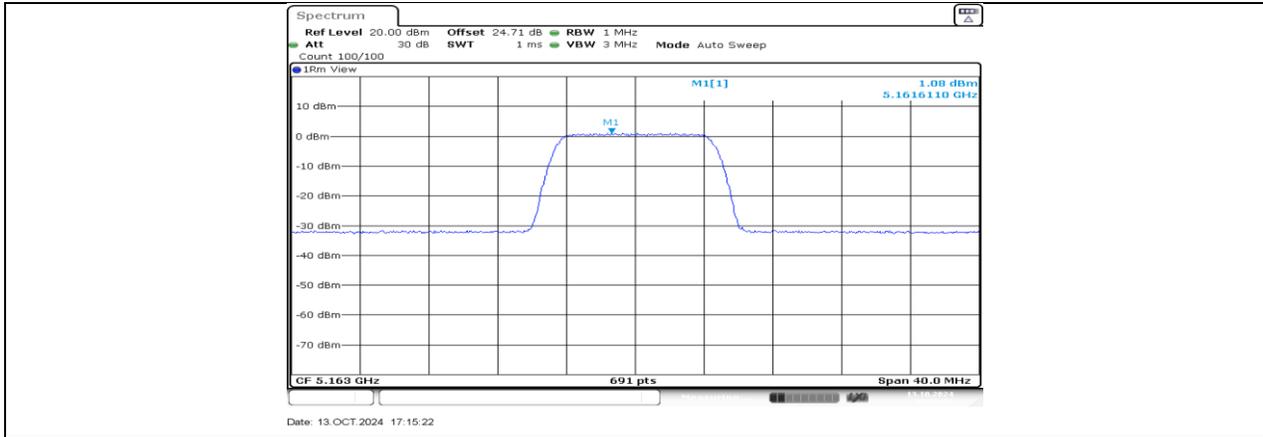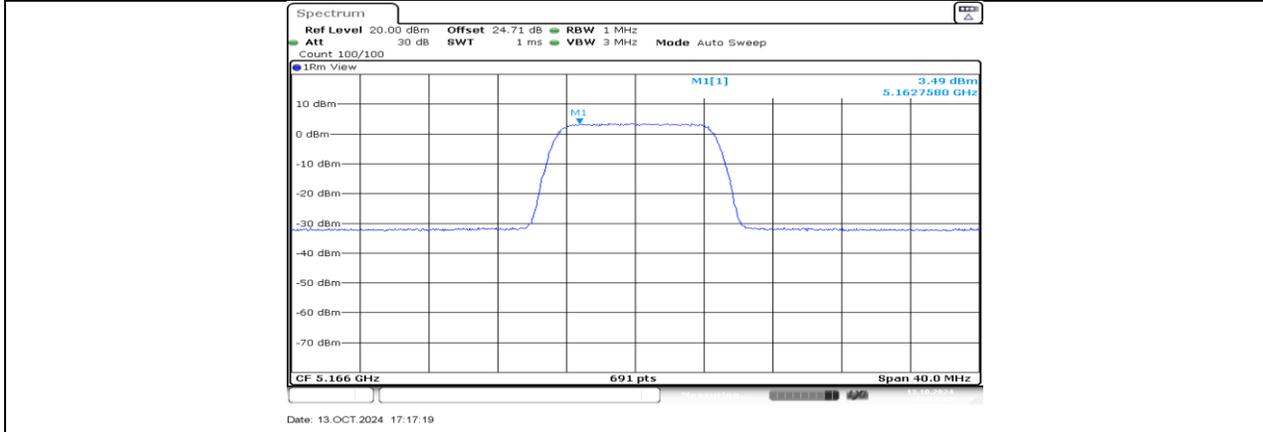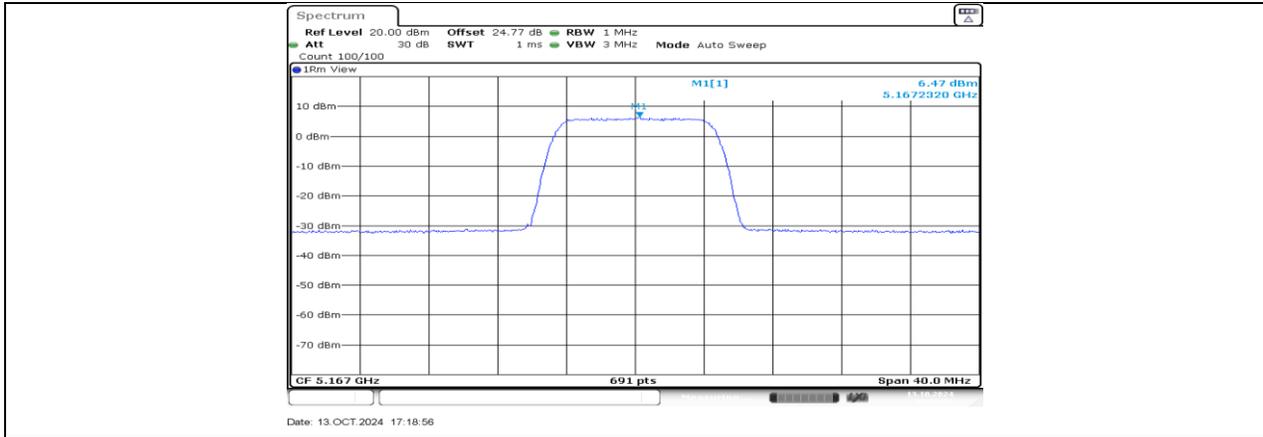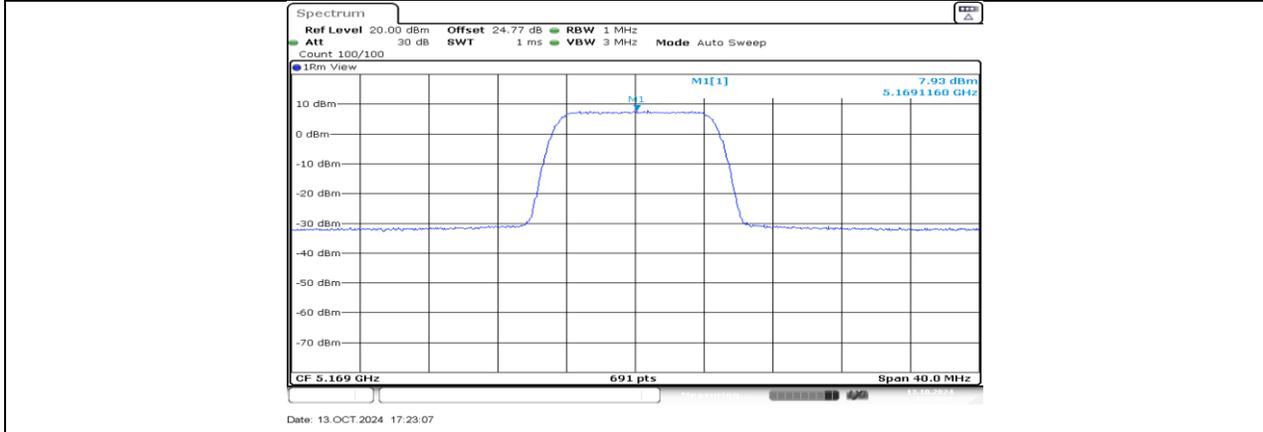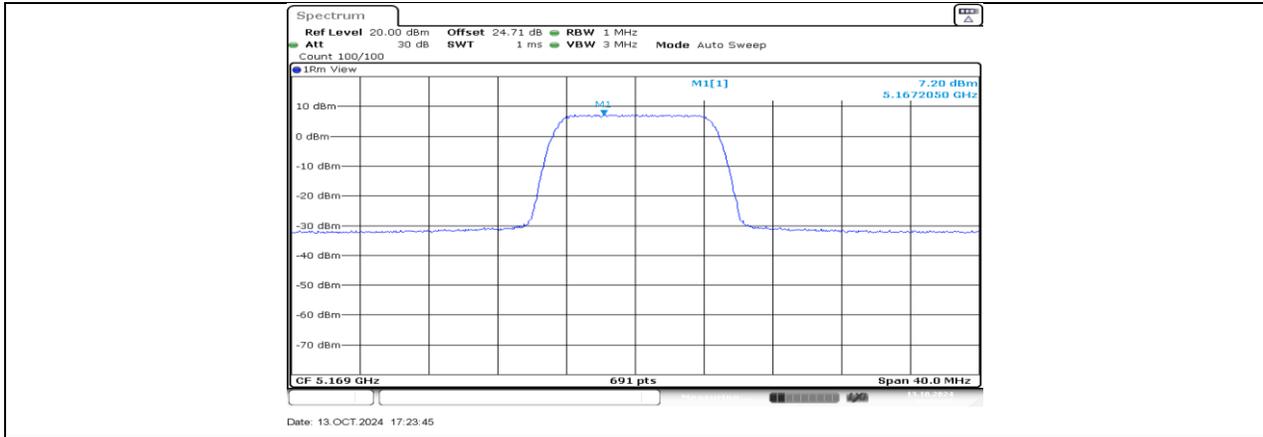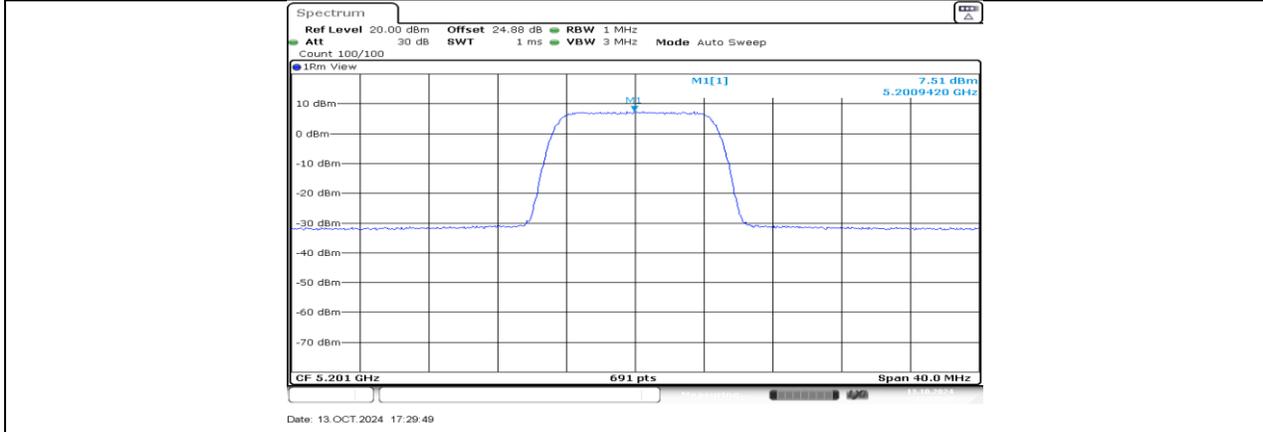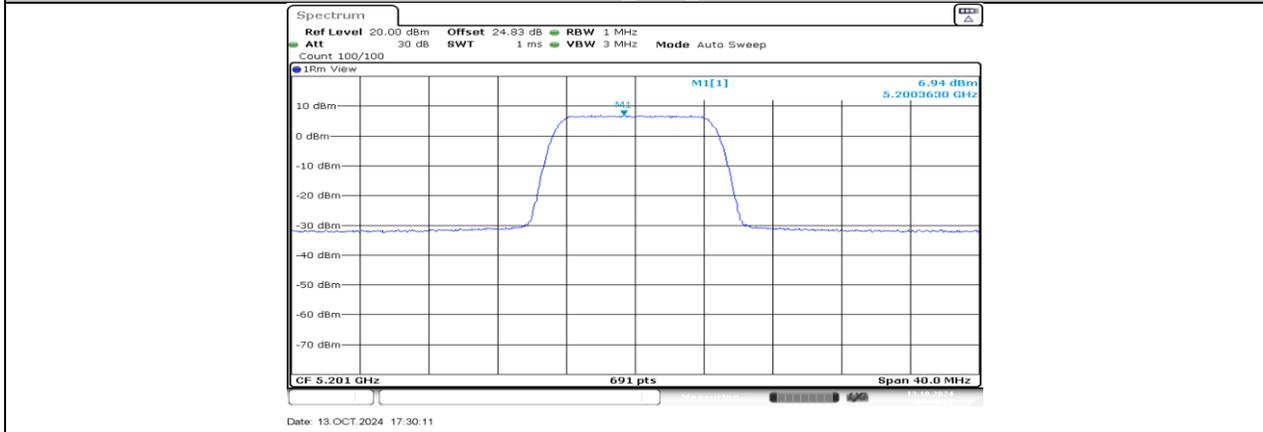
SRD 10M_Ant1_5158



SRD 10M_Ant0_5160
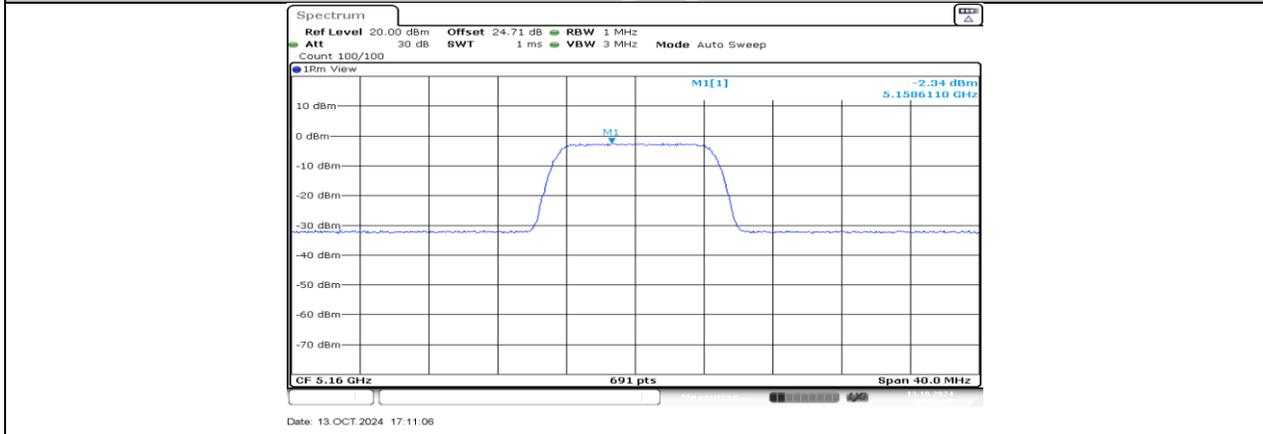


SRD 10M_Ant1_5160

SRD 10M_Ant0_5162



SRD 10M_Ant1_5162



SRD 10M_Ant0_5163

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SRD 10M_Ant1_5163



SRD 10M_Ant0_5166



SRD 10M_Ant1_5166

SRD 10M_Ant0_5167



SRD 10M_Ant1_5167



SRD 10M_Ant0_5169

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SRD 10M_Ant1_5169



SRD 10M_Ant0_5201



SRD 10M_Ant1_5201

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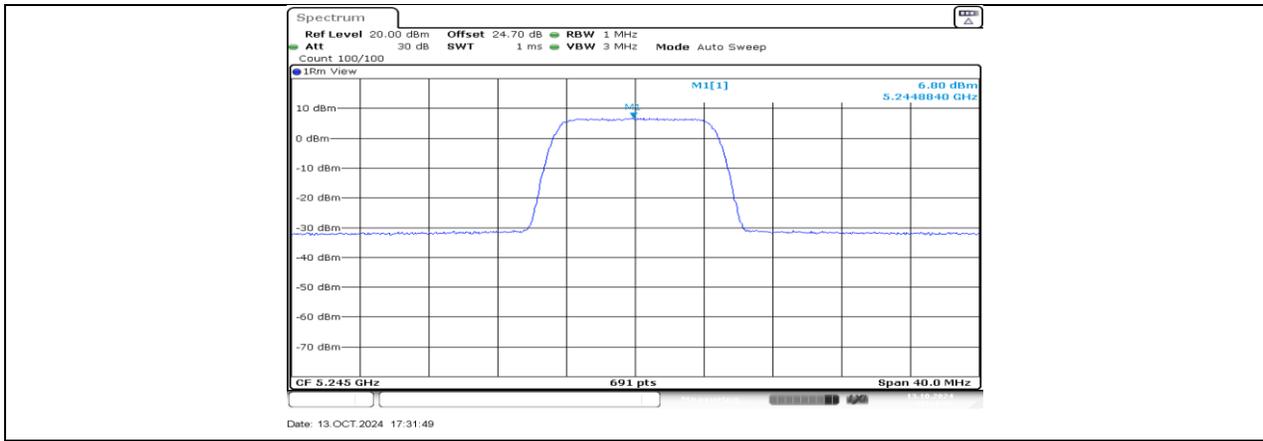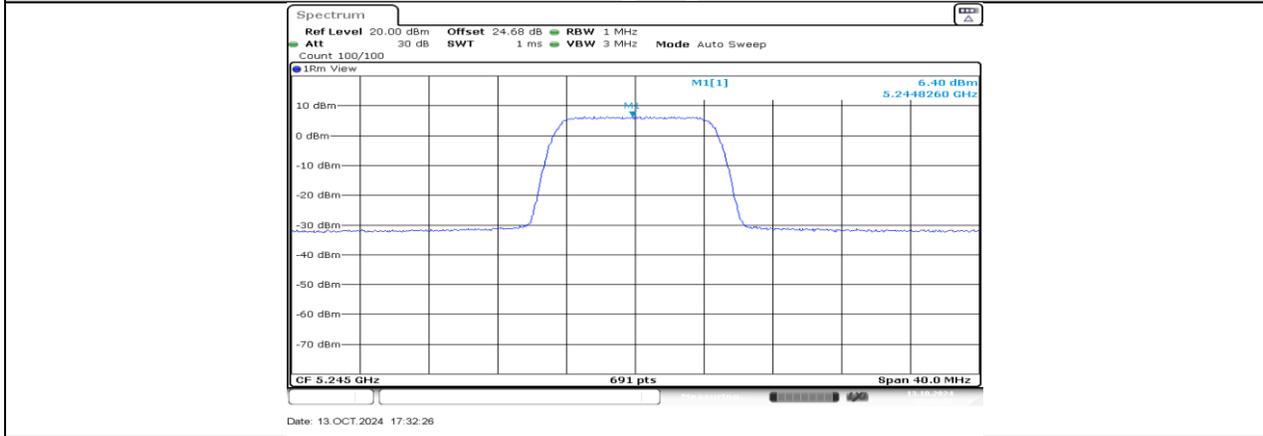
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SRD 10M_Ant1_5245



SRD 10M_Ant0_5730.5

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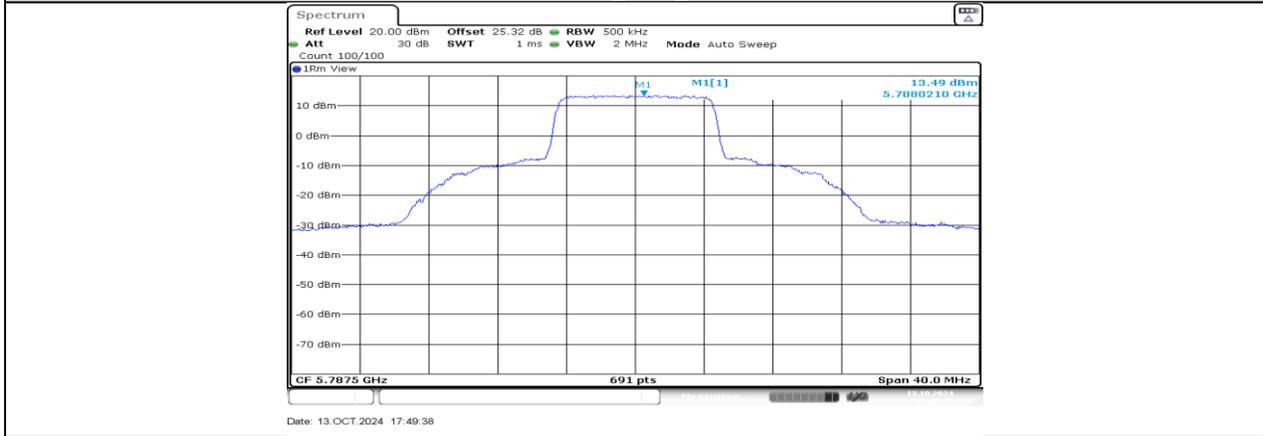
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SRD 10M_Ant0_5787.5



SRD 10M_Ant1_5787.5
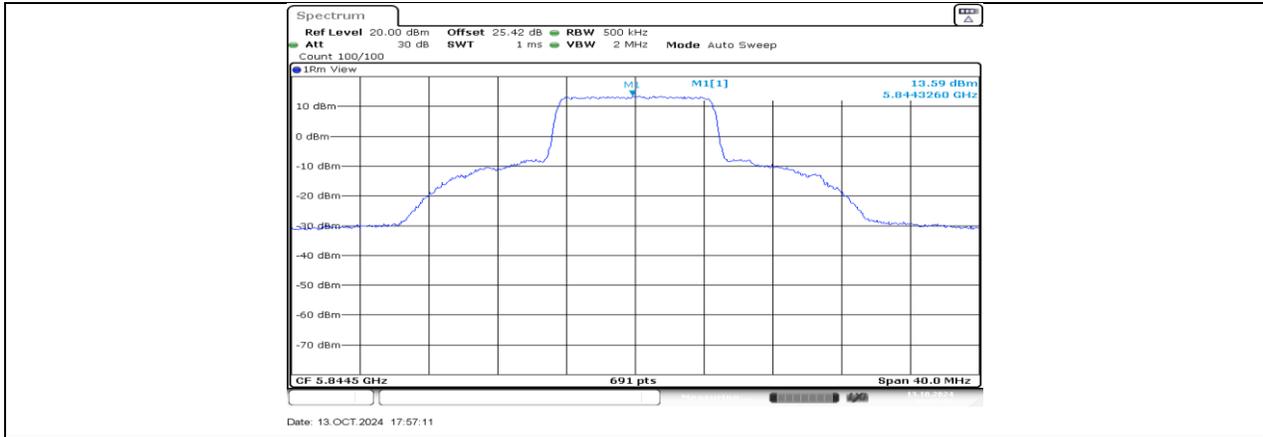
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SRD 10M_Ant1_5844.5



SRD 20M_Ant0_5161

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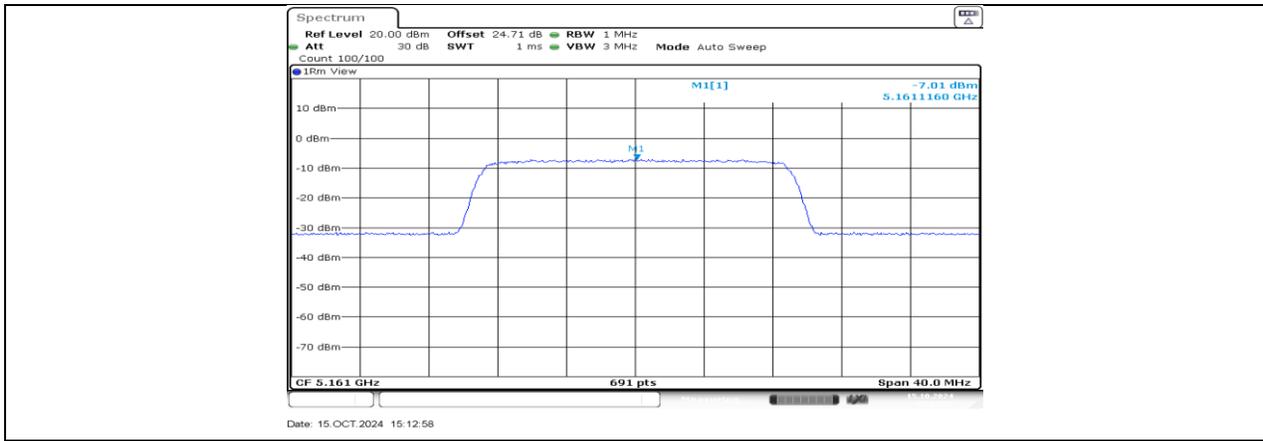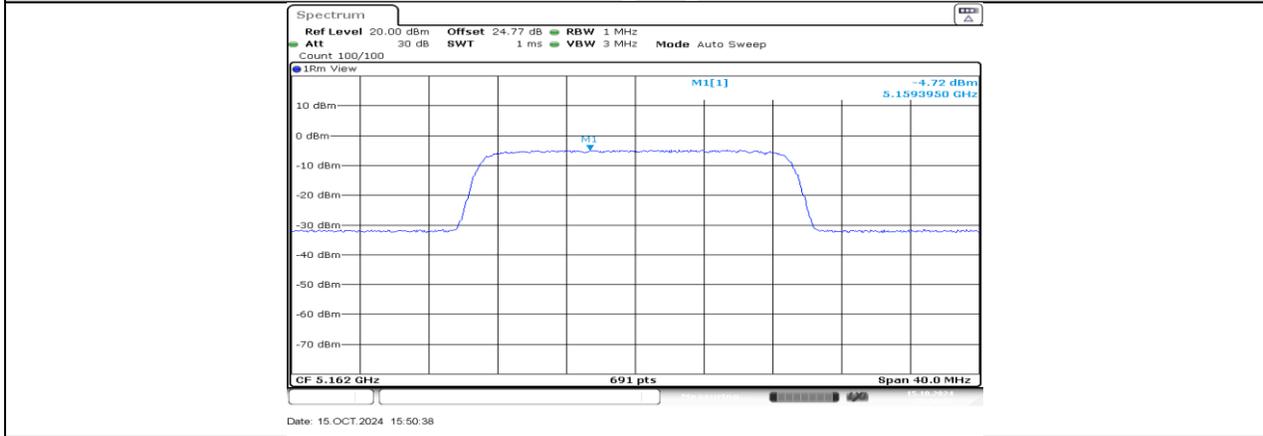
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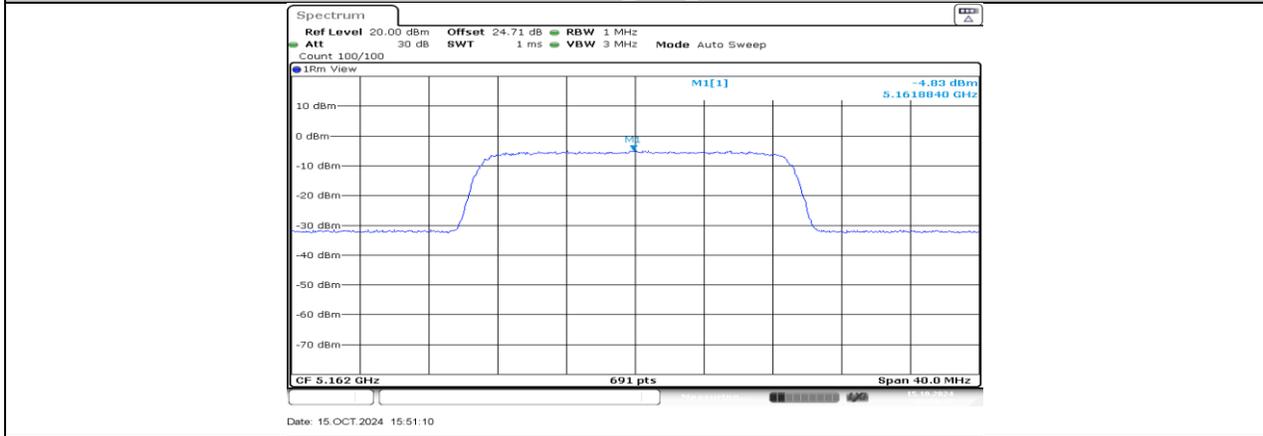


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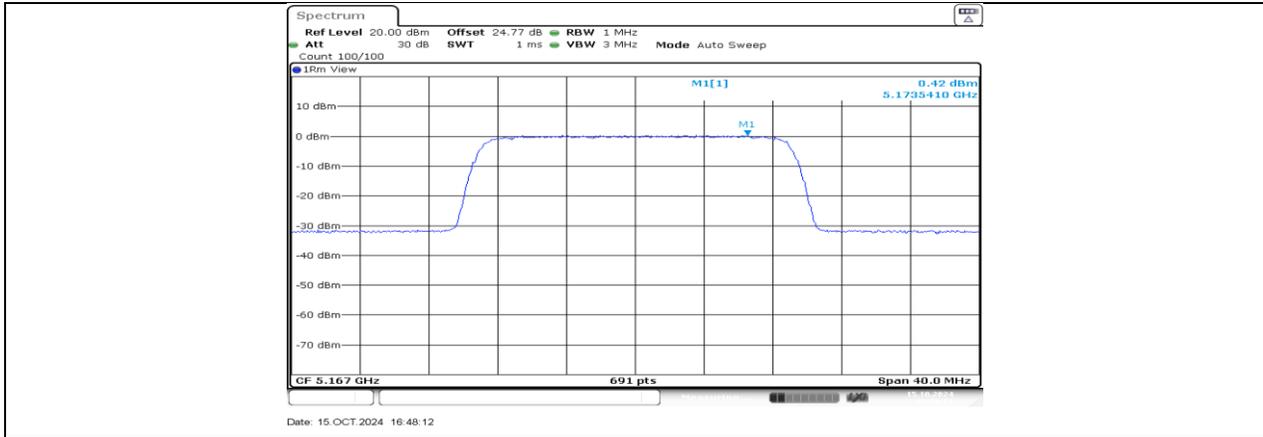
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SRD 20M_Ant1_5167
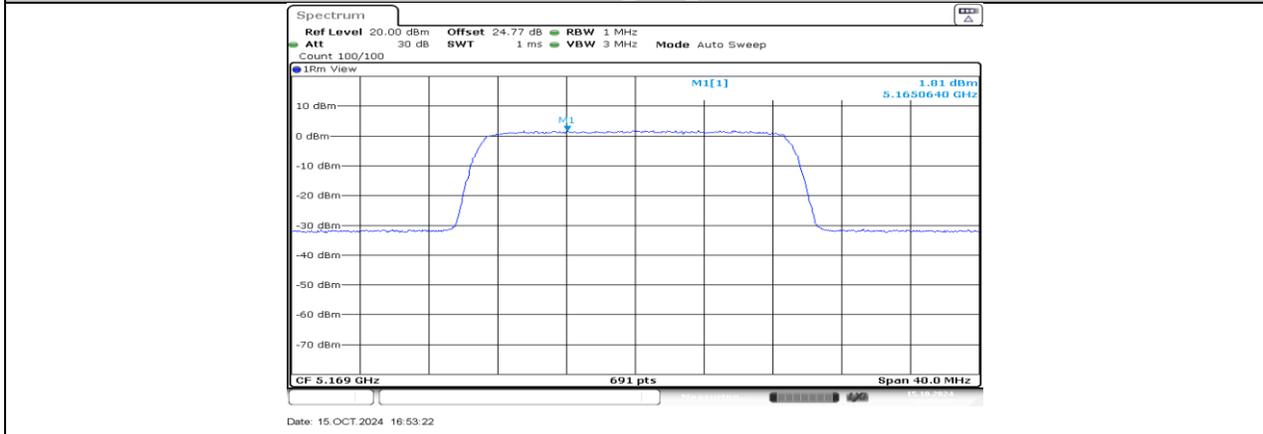


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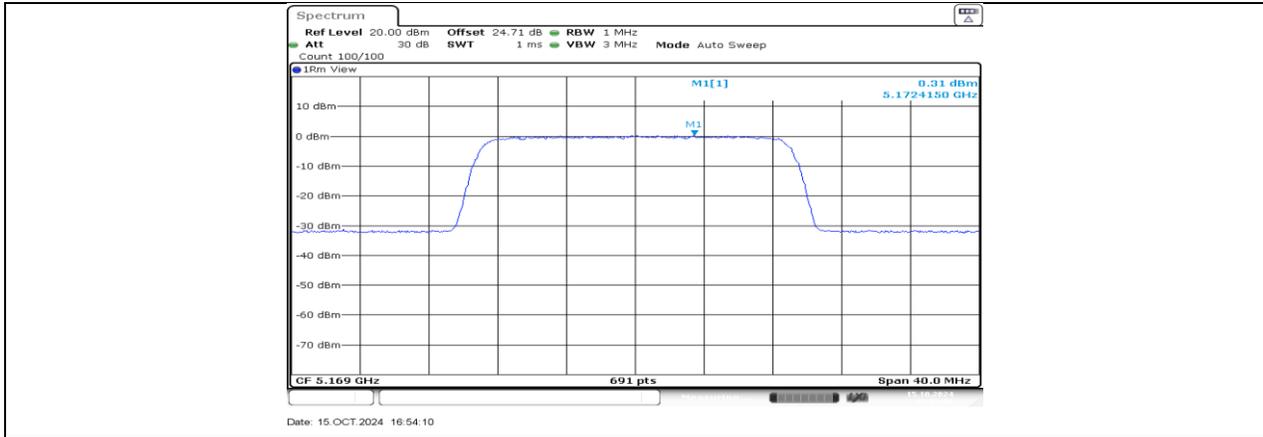
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SRD 20M_Ant0_5171



SRD 20M_Ant1_5171

SRD 20M_Ant0_5201



SRD 20M_Ant1_5201
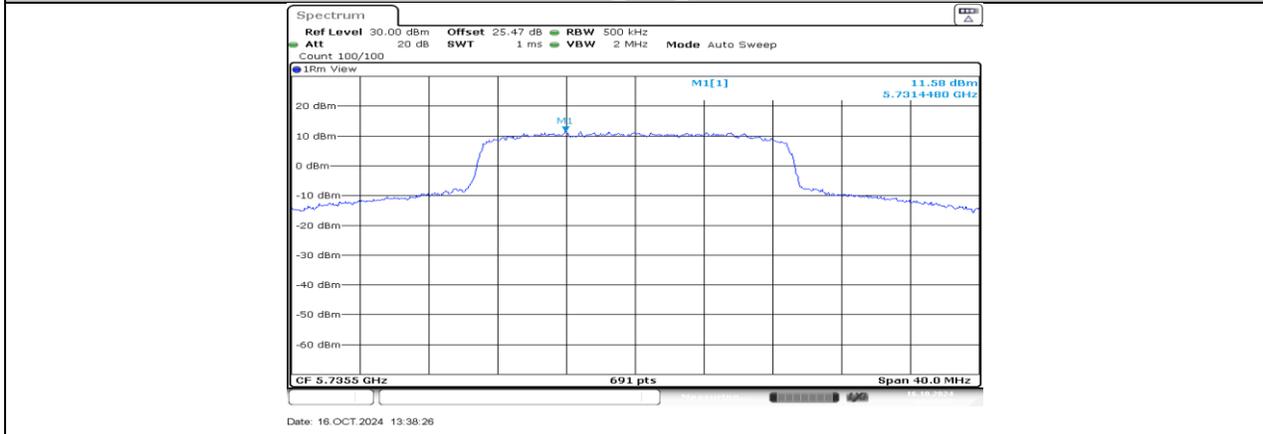


SRD 20M_Ant0_5240

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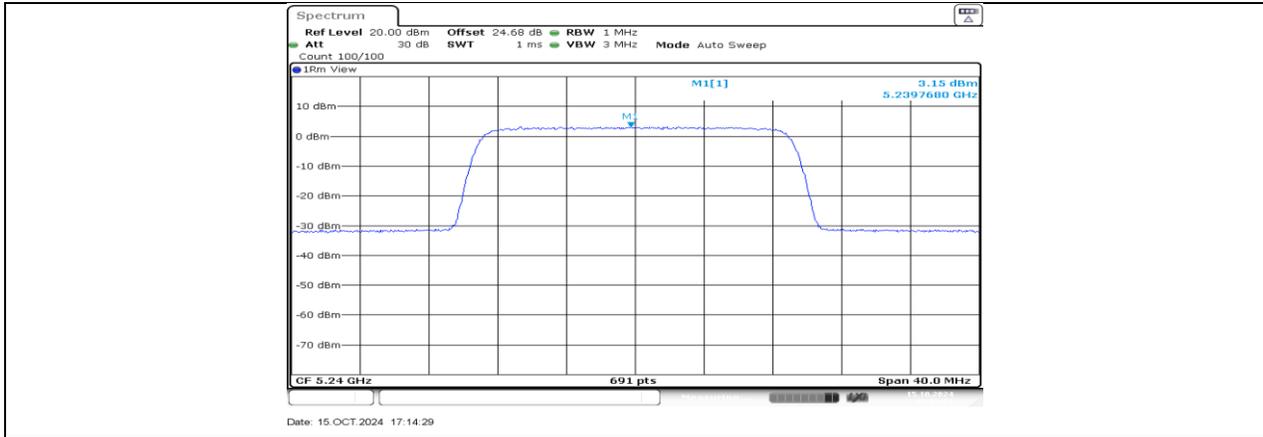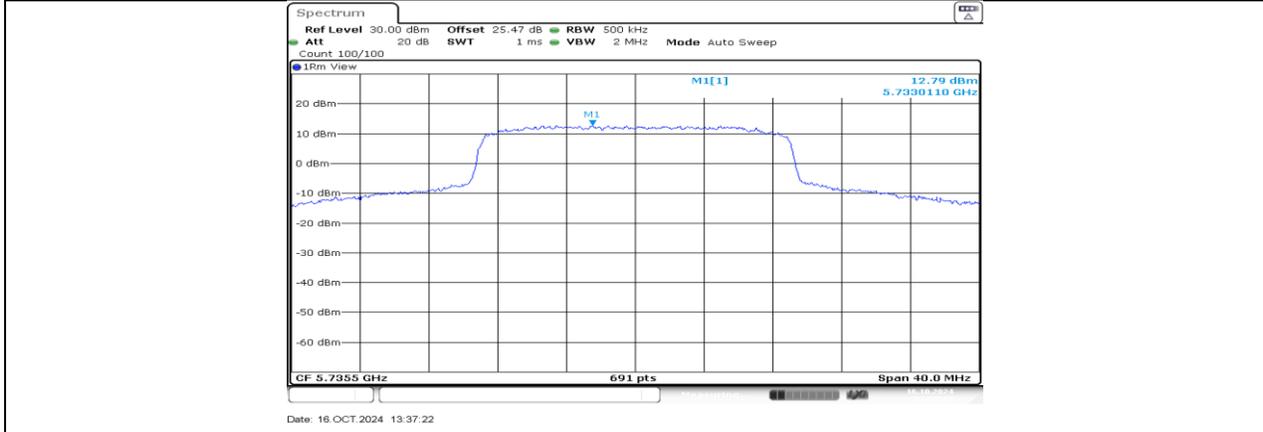
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SRD 20M_Ant0_5735.5



SRD 20M_Ant1_5735.5

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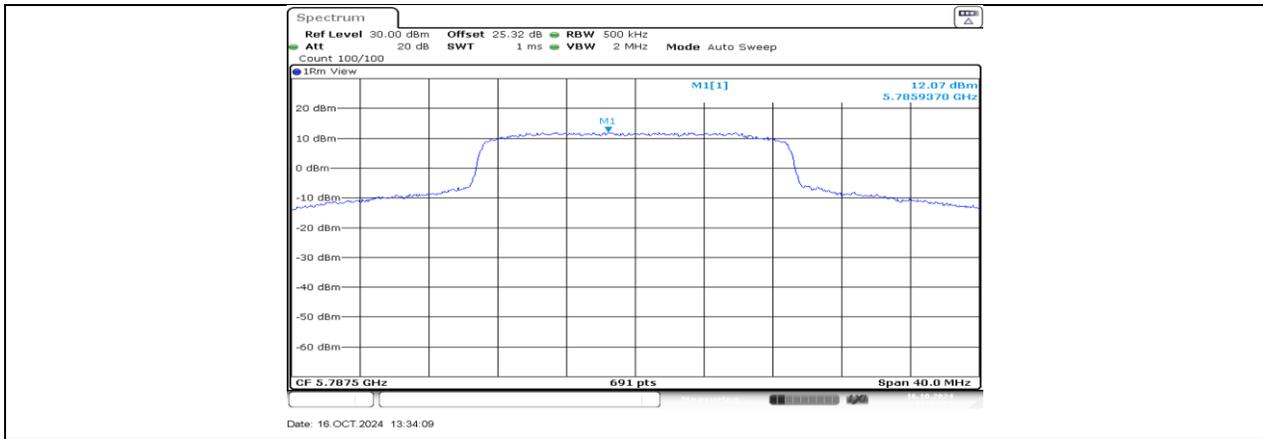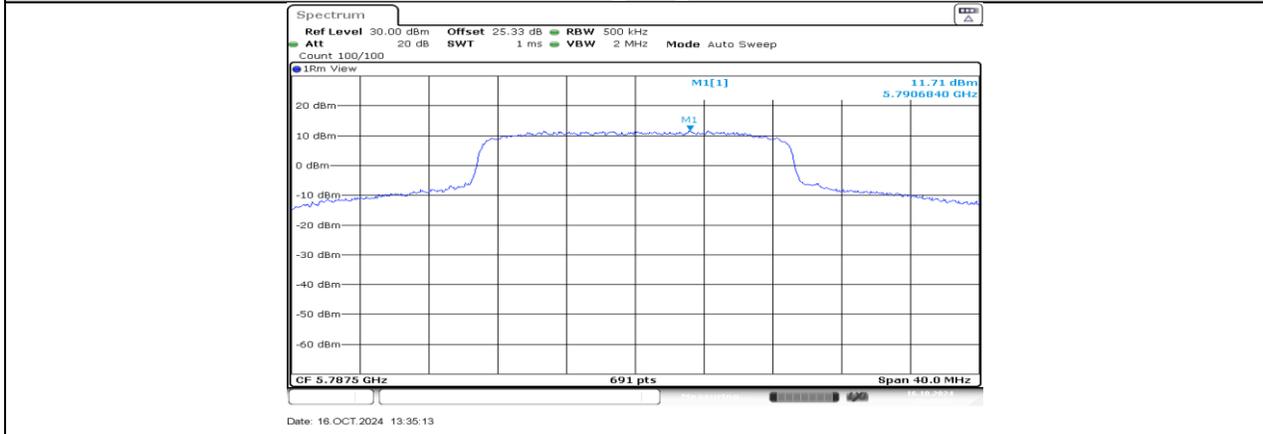
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SRD 20M_Ant1_5787.5



SRD 20M_Ant0_5839.5

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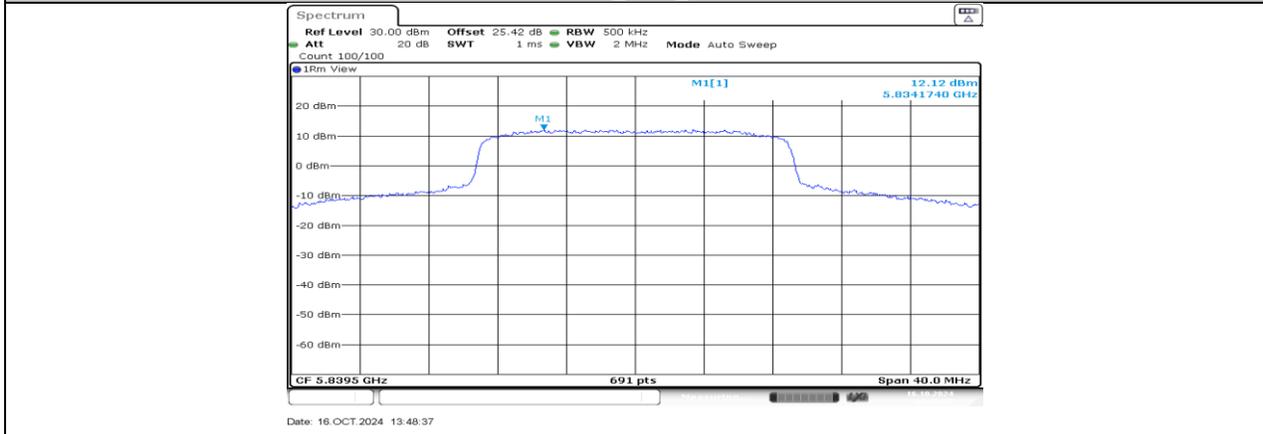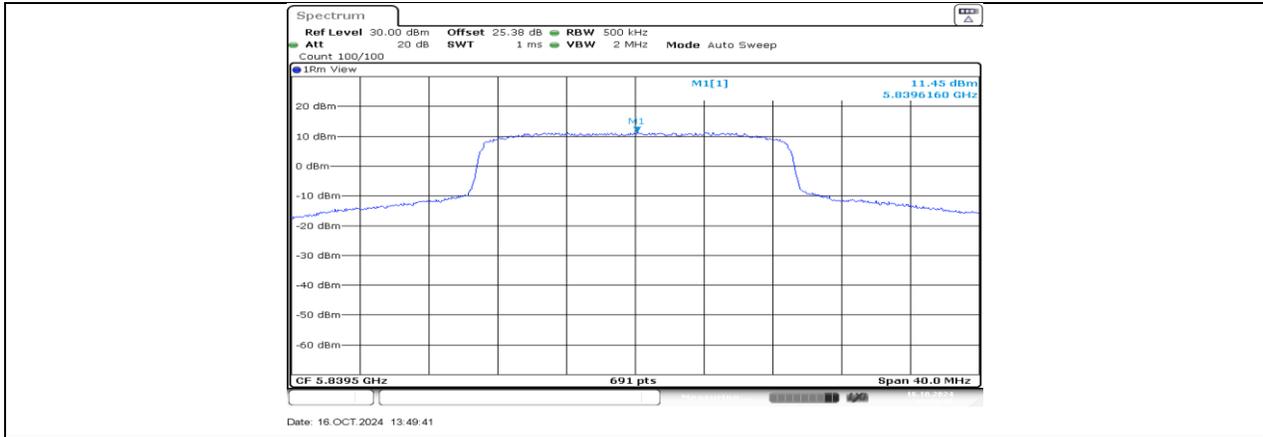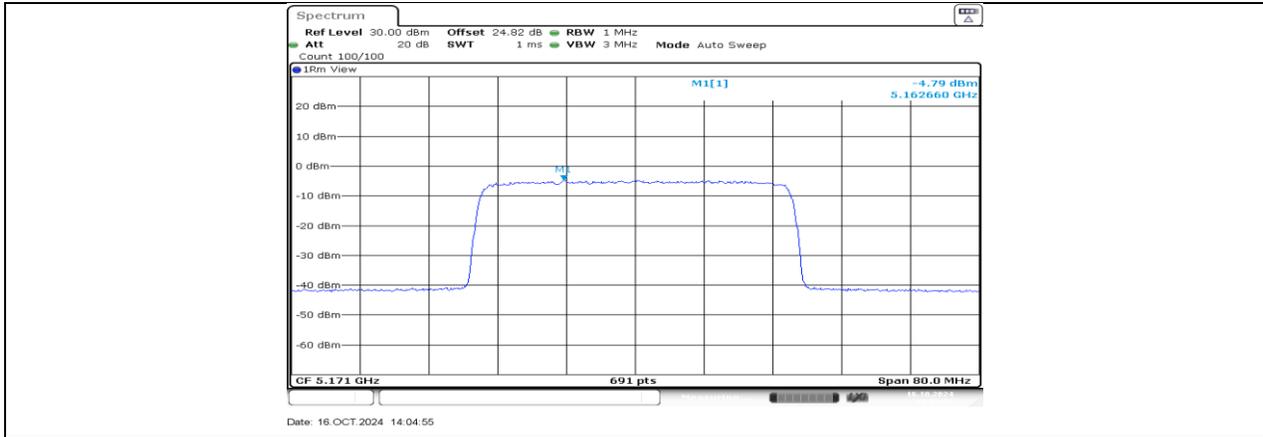
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SRD 40M_Ant0_5170



SRD 40M_Ant1_5170

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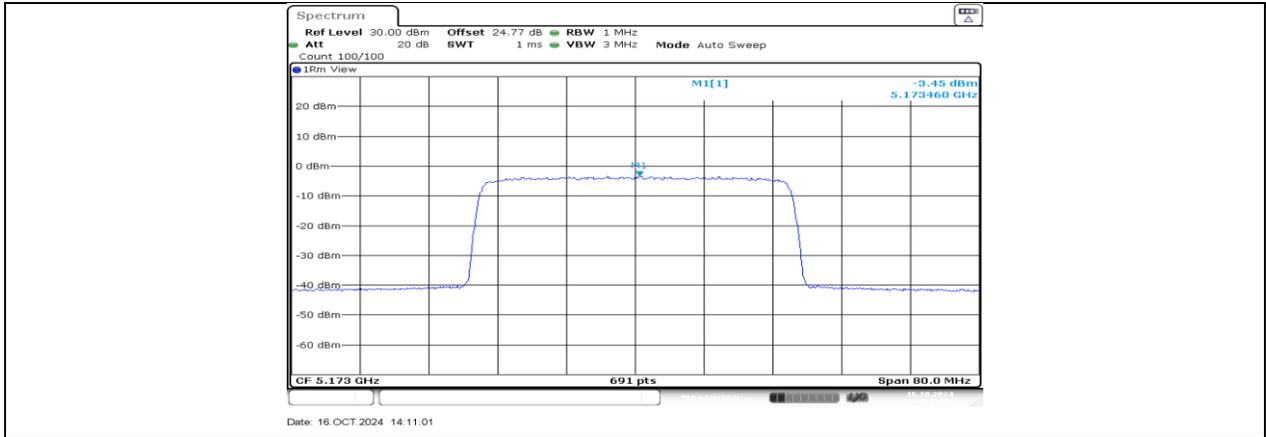*This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.*
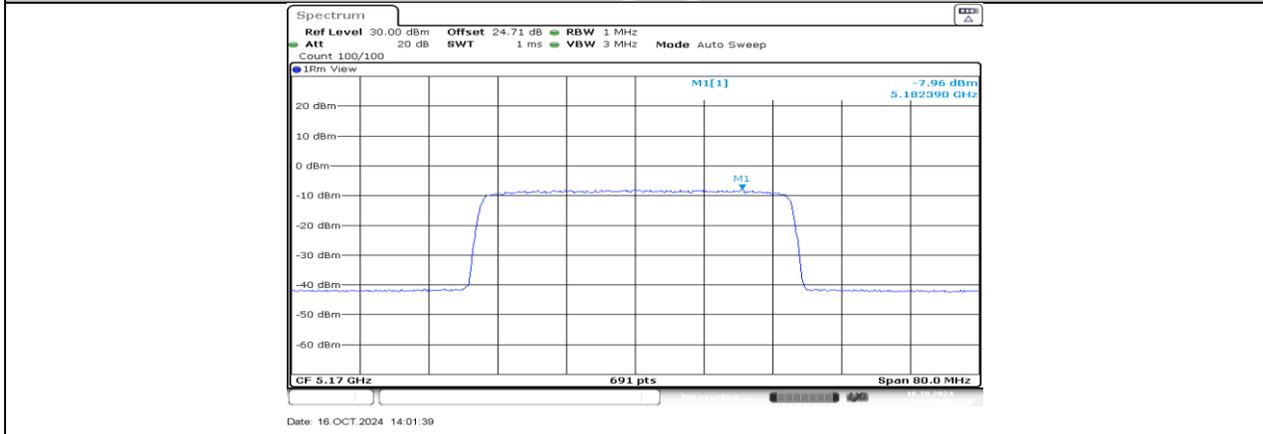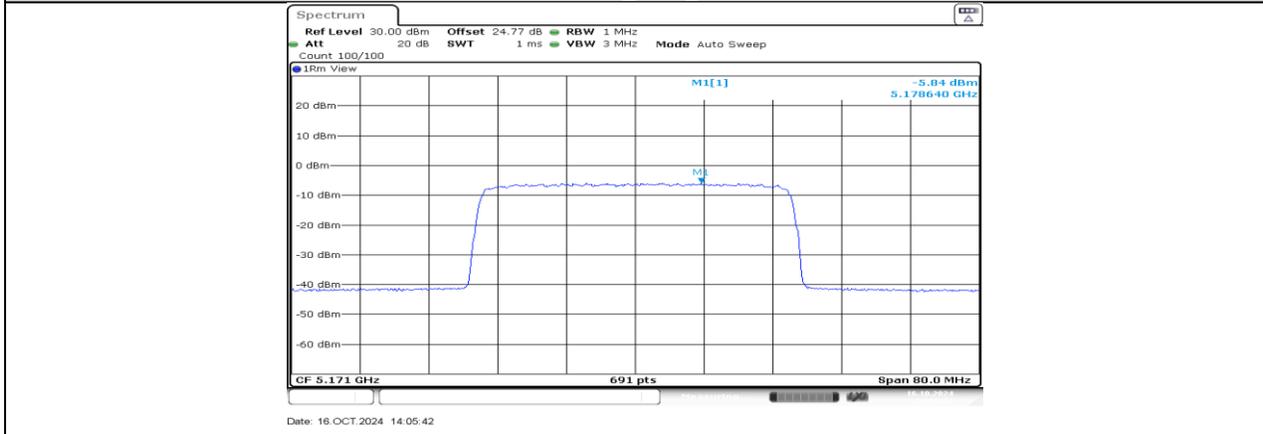
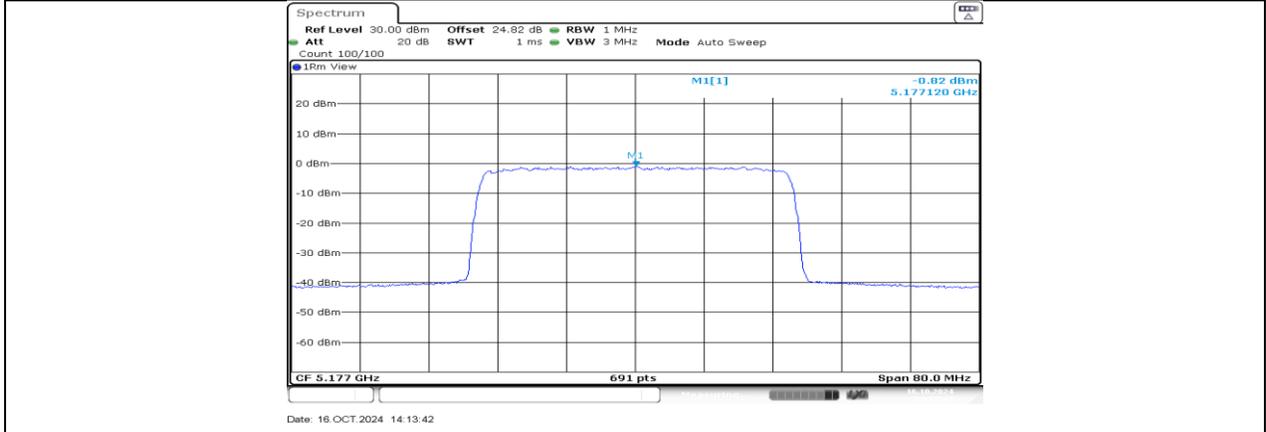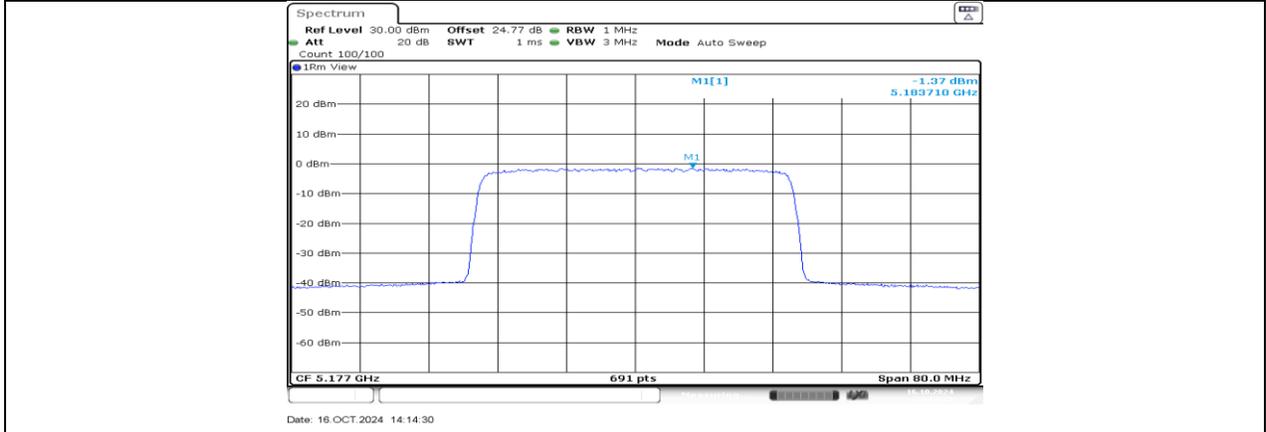SRD 40M_Ant0_5171



SRD 40M_Ant1_5171



SRD 40M_Ant0_5173

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Date: 16.OCT.2024 14:11:01

SRD 40M_Ant1_5173



Date: 16.OCT.2024 14:13:42

SRD 40M_Ant0_5177



Date: 16.OCT.2024 14:14:30
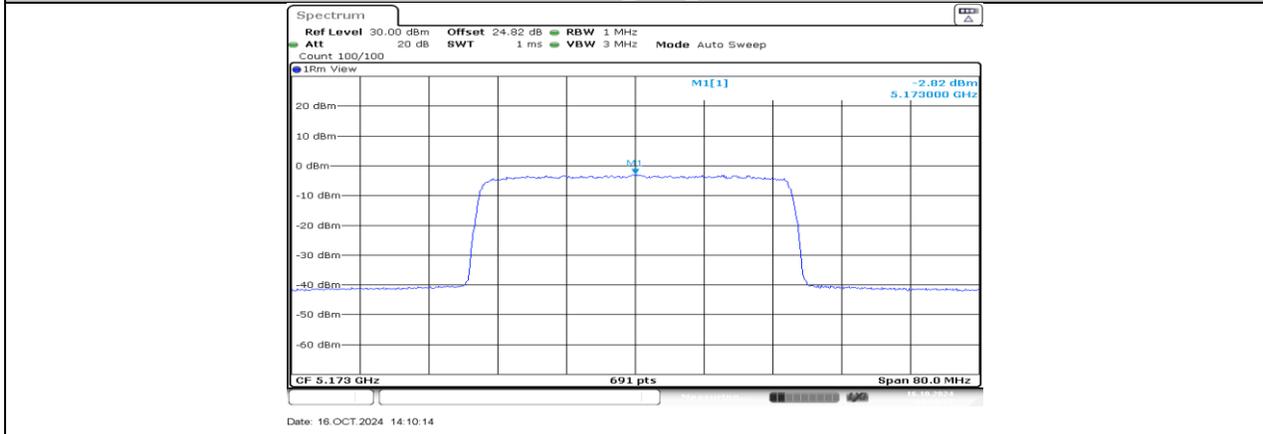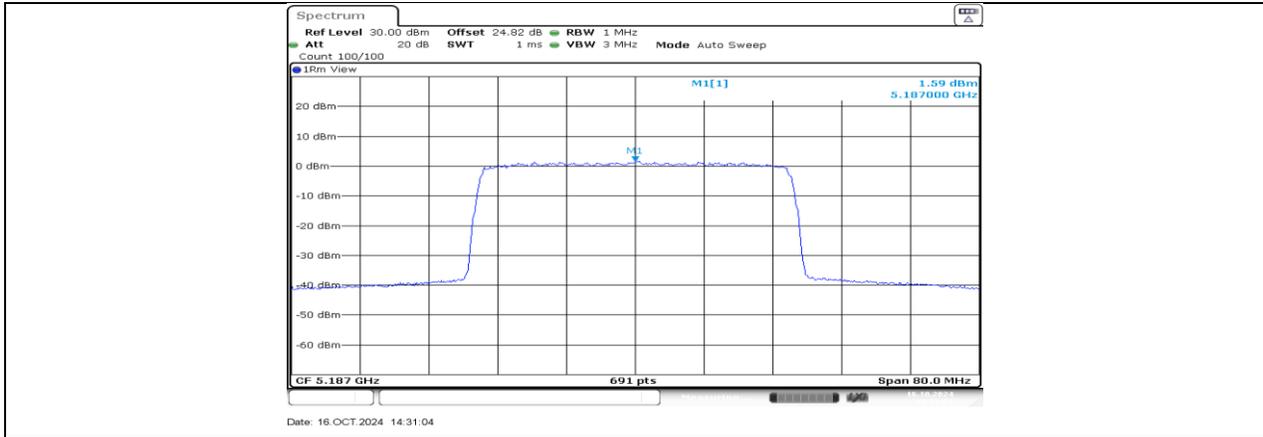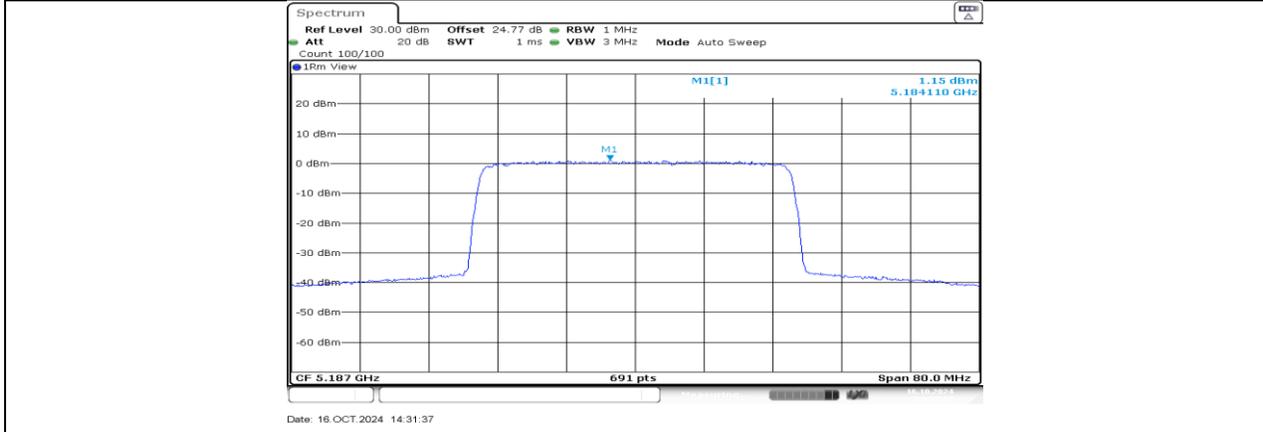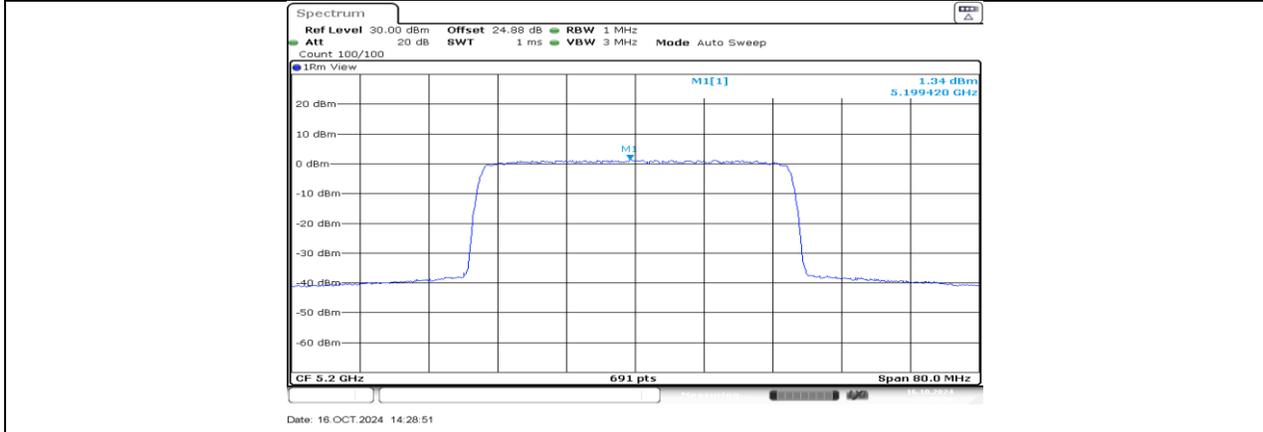
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SRD 40M_Ant0_5187



SRD 40M_Ant1_5187



SRD 40M_Ant0_5200

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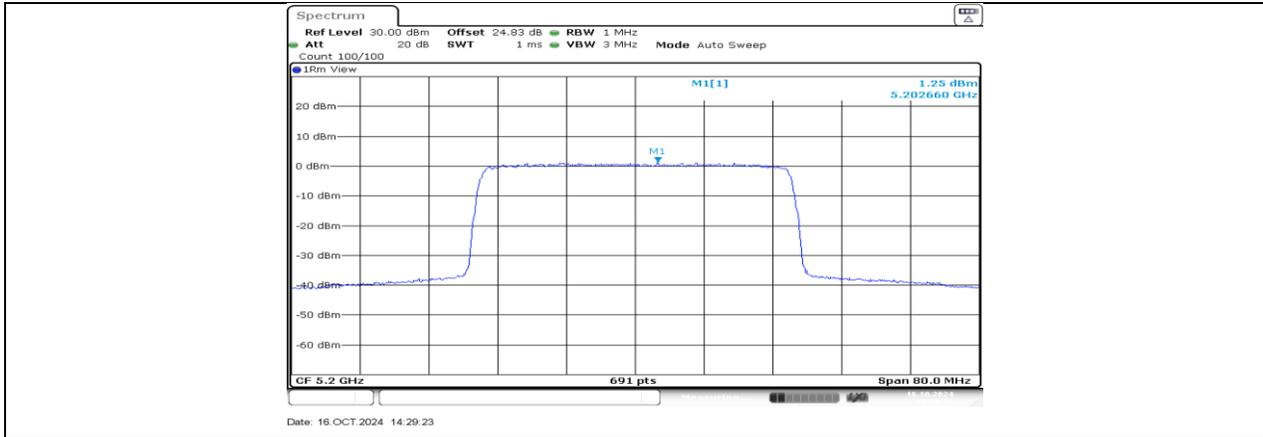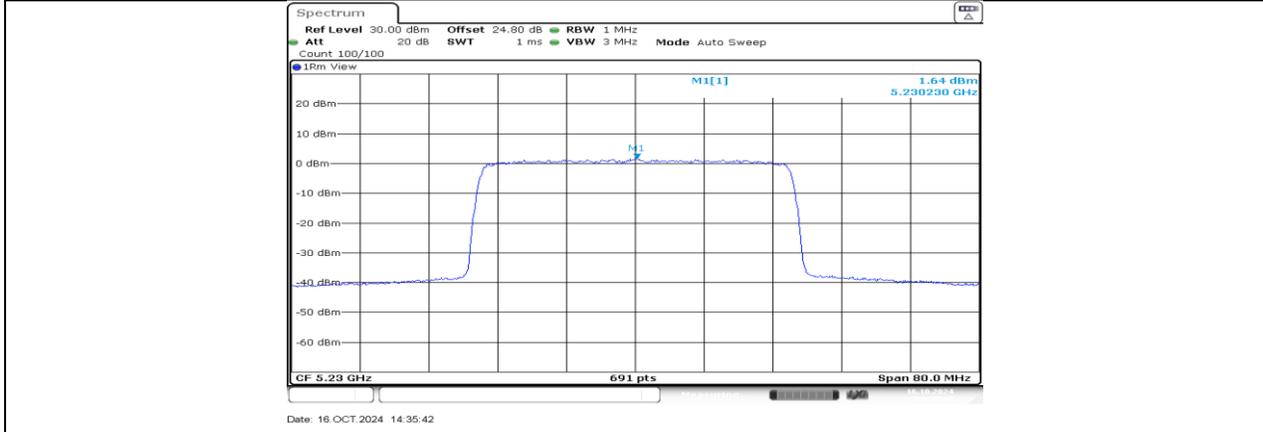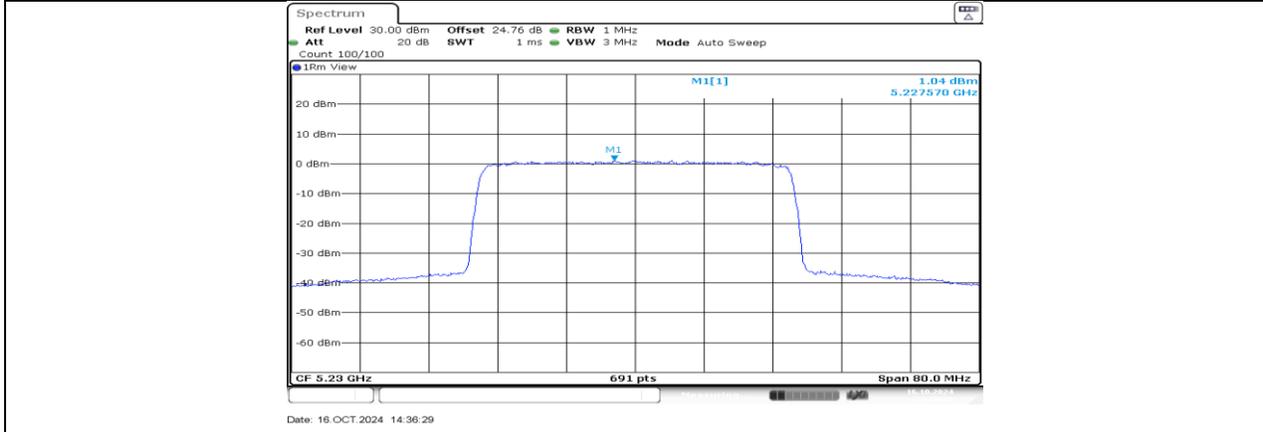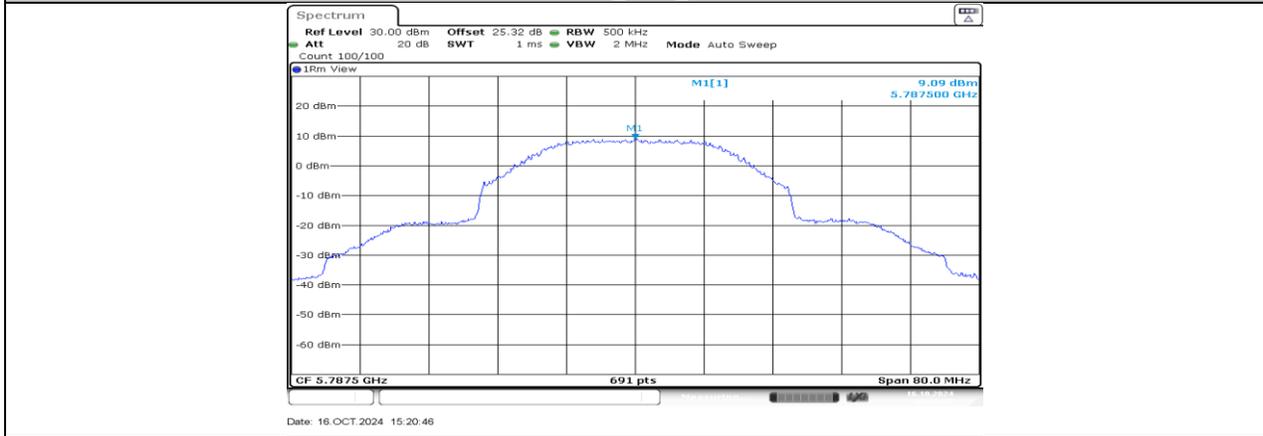
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SRD 40M_Ant0_5230



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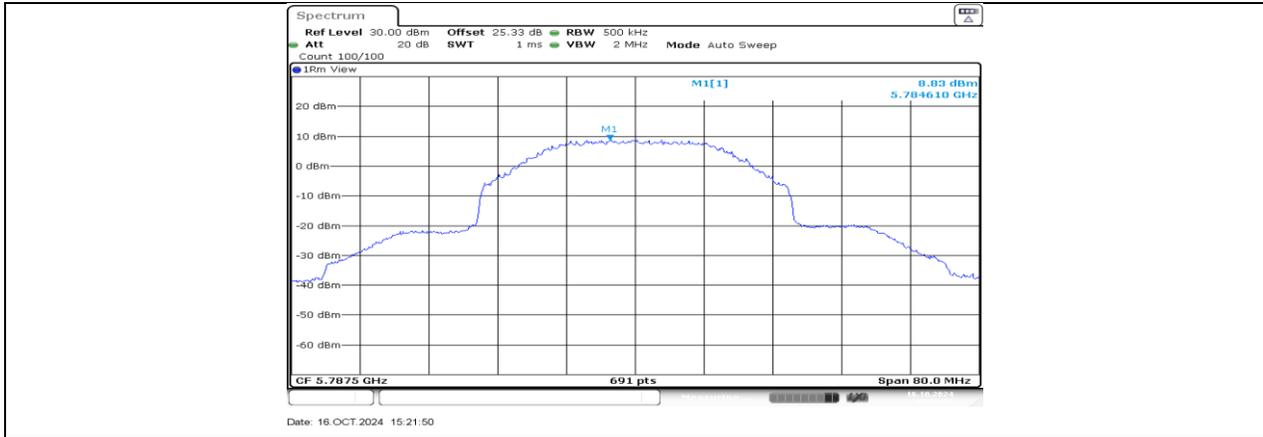
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SRD 40M_Ant1_5745.5



SRD 40M_Ant0_5787.5

SRD 40M_Ant1_5787.5



SRD 40M_Ant0_5829.5



SRD 40M_Ant1_5829.5

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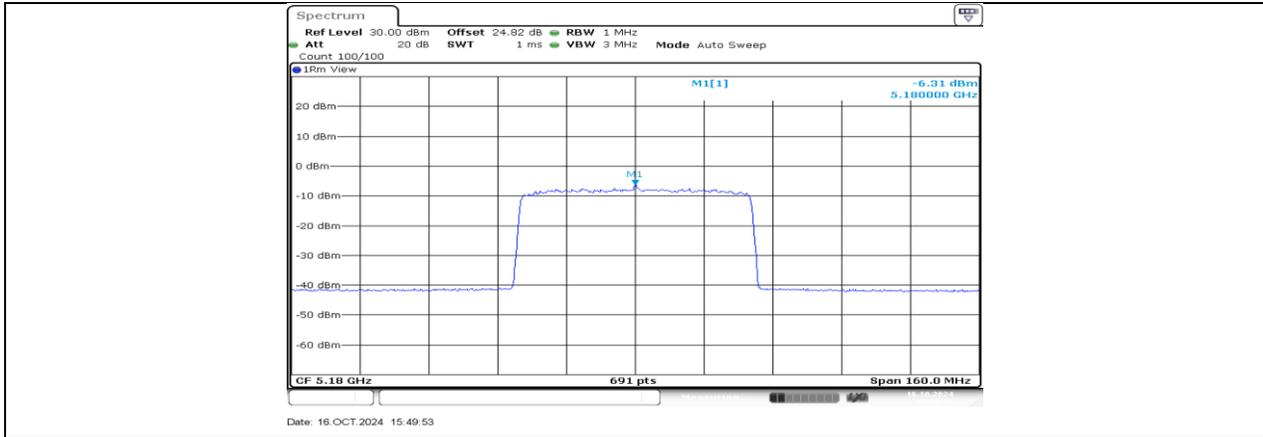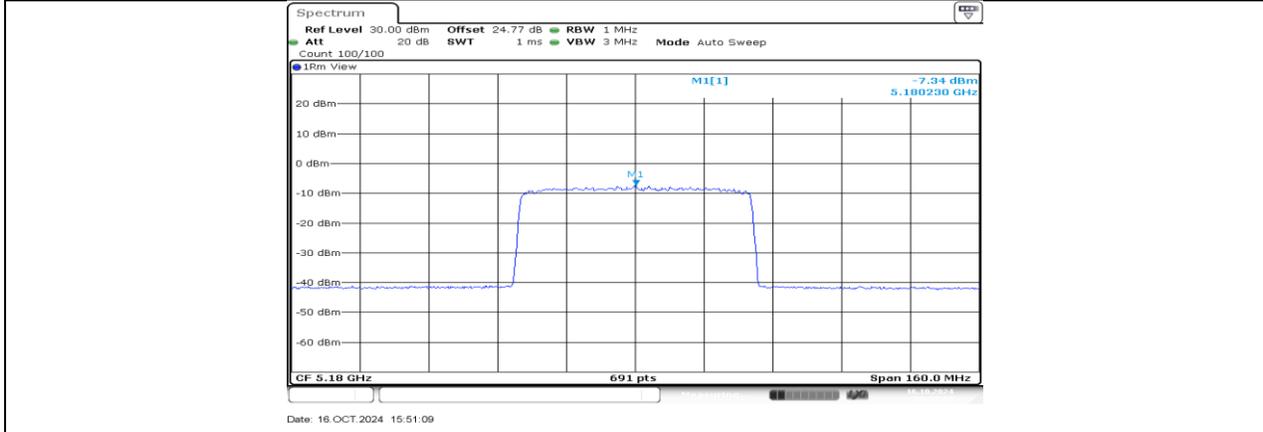
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SRD 60M_Ant1_5180



SRD 60M_Ant0_5182

SRD 60M_Ant1_5182
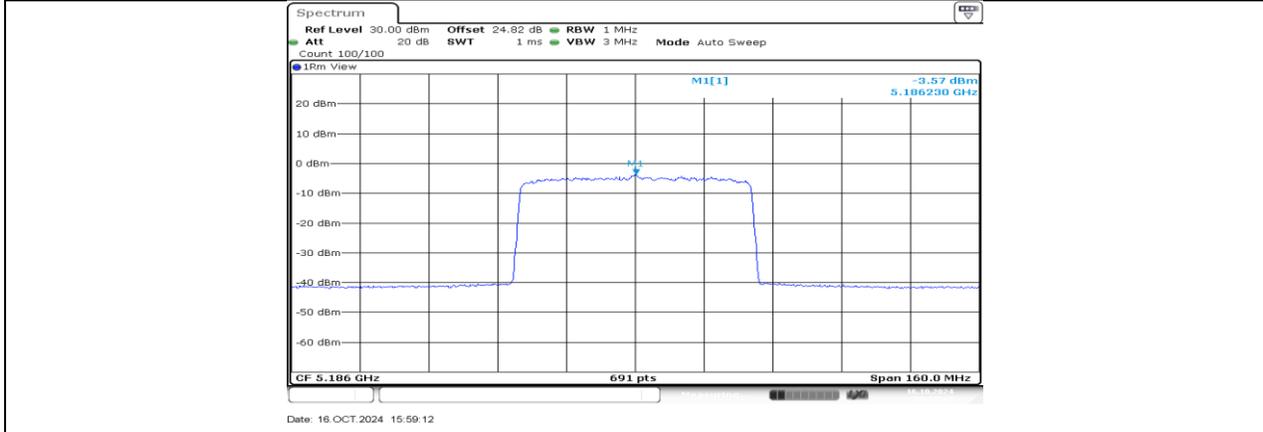


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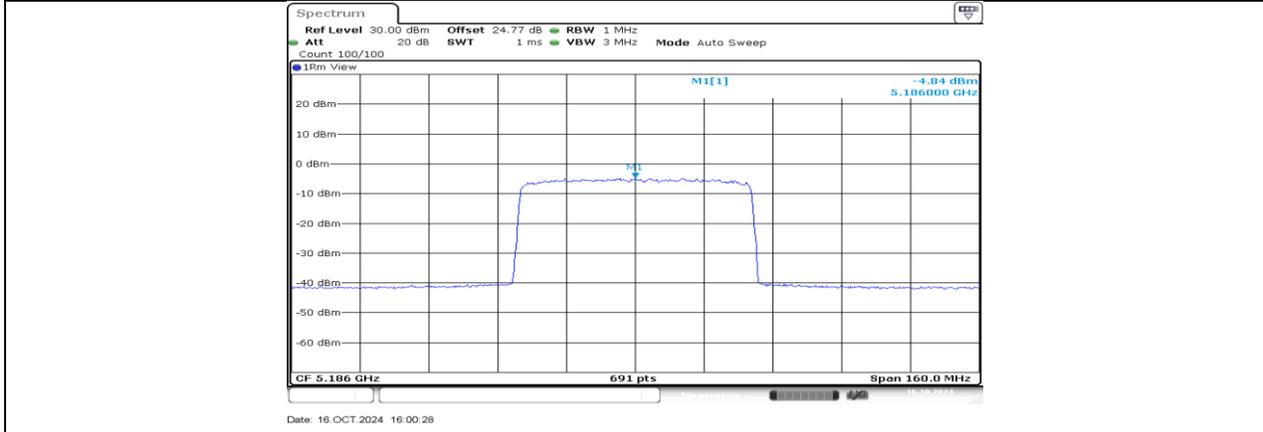


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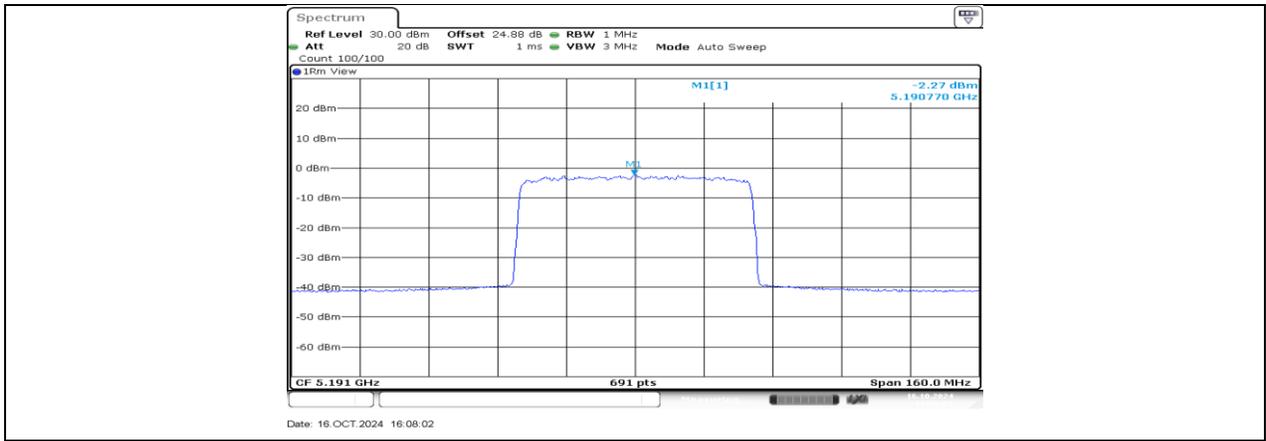
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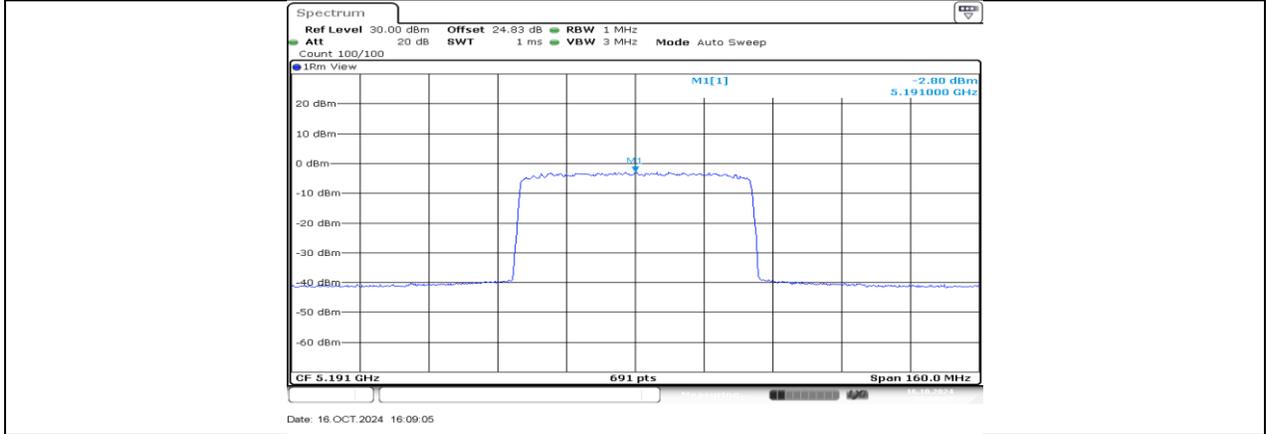


SRD 60M_Ant1_5191



SRD 60M_Ant0_5195

Date: 16.OCT.2024  16:12:36

SRD 60M_Ant1_5195



Date: 16.OCT.2024  16:14:38

SRD 60M_Ant0_5200



Date: 16.OCT.2024  16:15:55
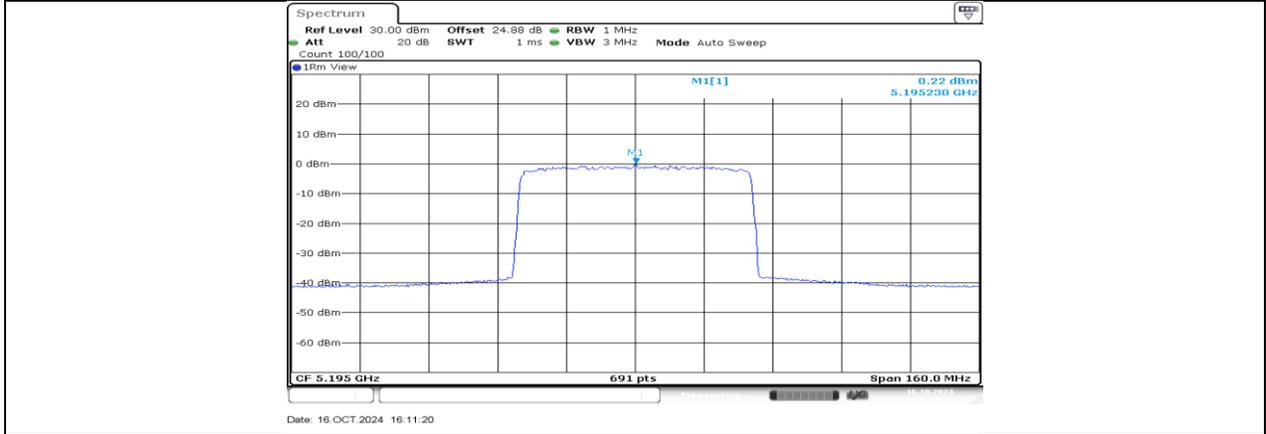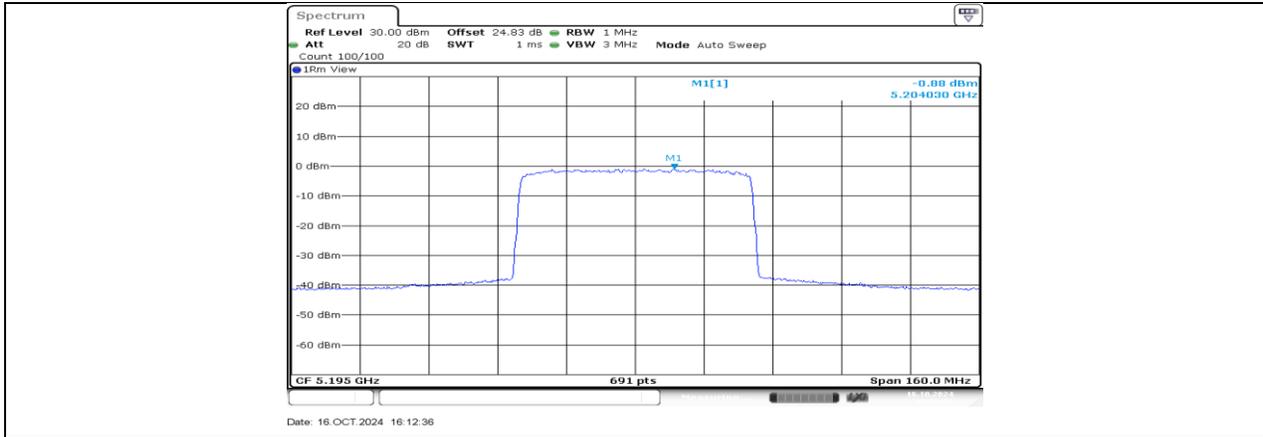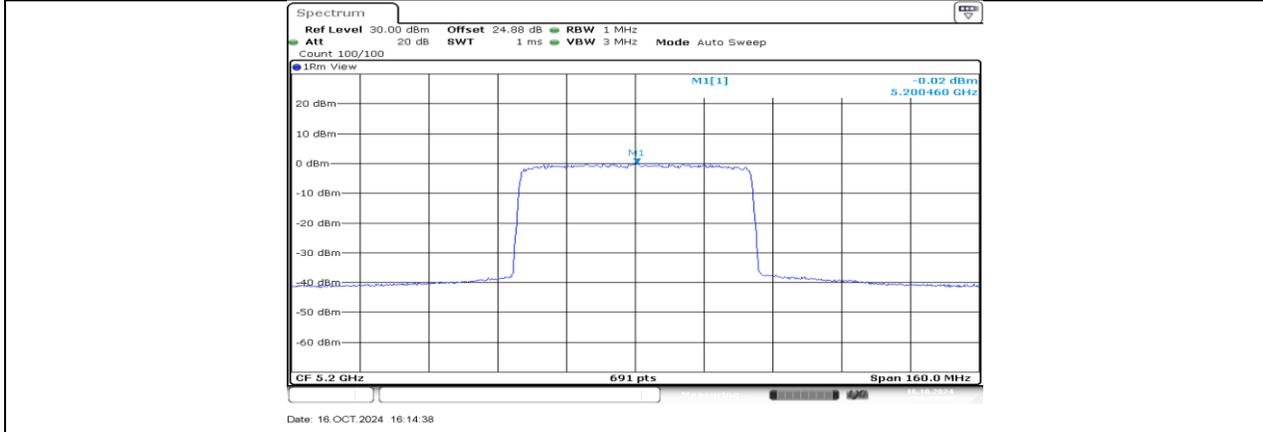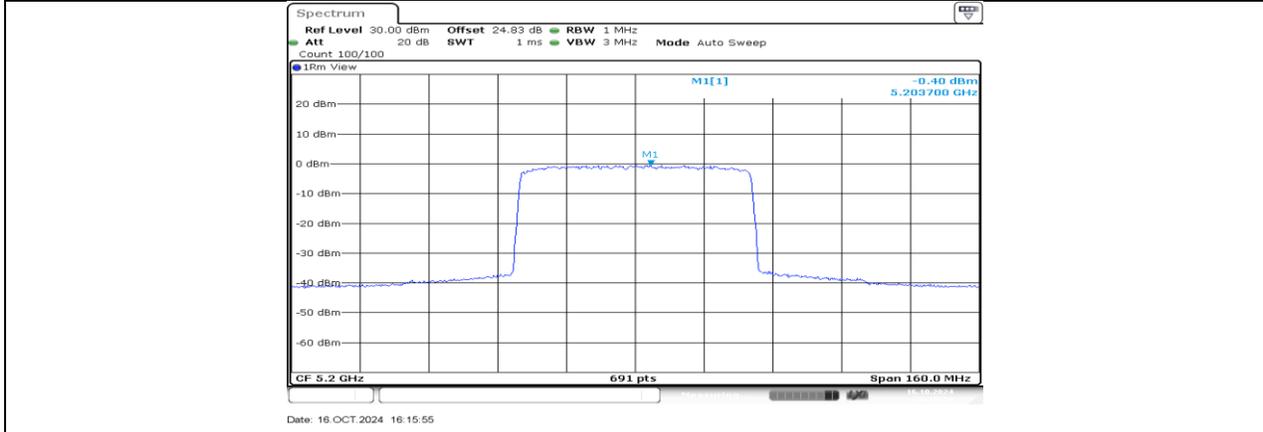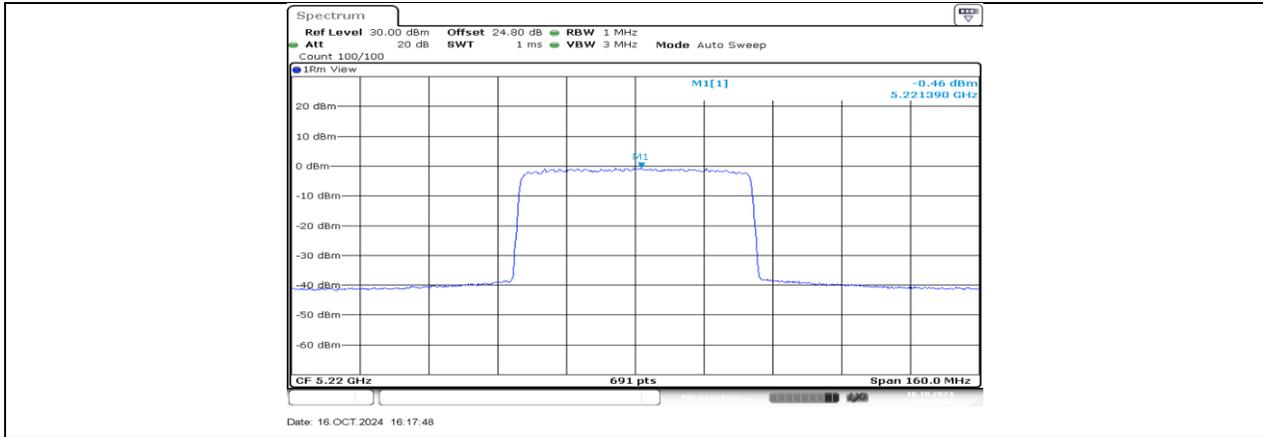
SRD 60M_Ant1_5200

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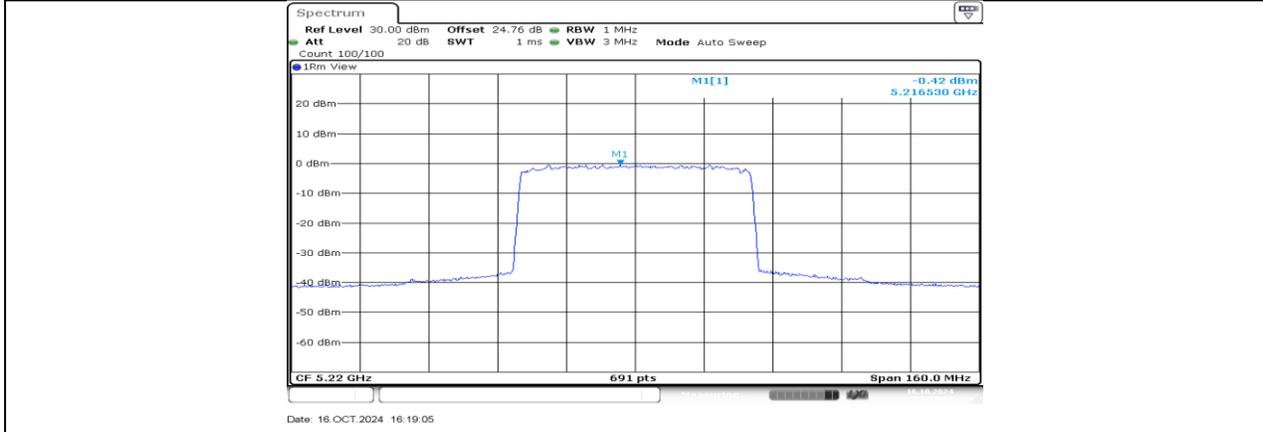


SRD 60M_Ant1_5220



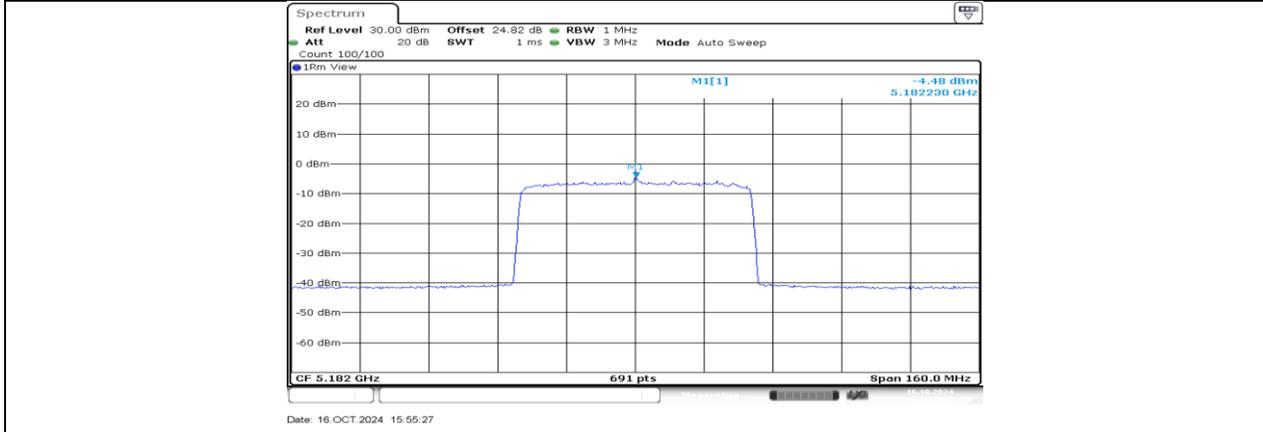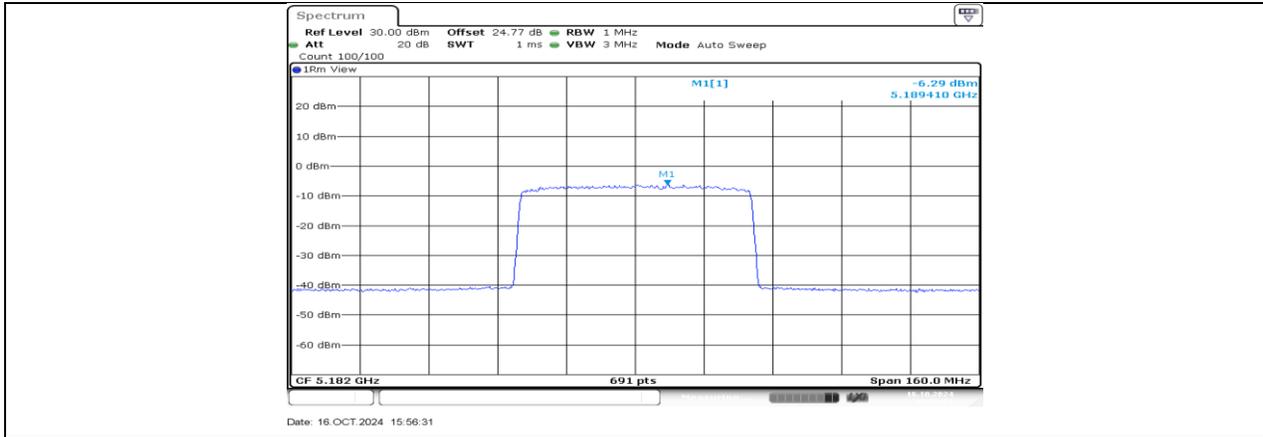SRD 60M_Ant0_5755.5
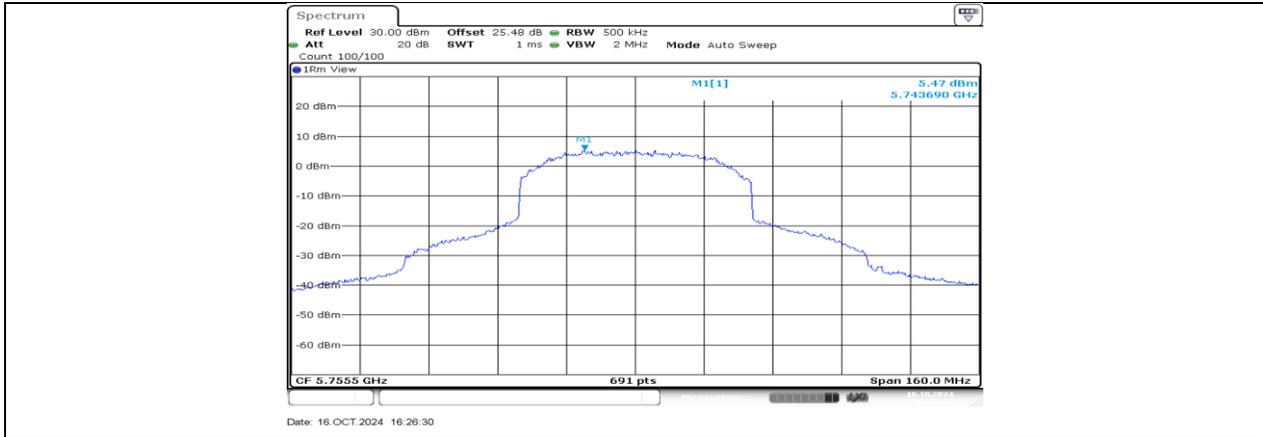
SRD 60M_Ant1_5755.5



SRD 60M_Ant0_5787.5



SRD 60M_Ant1_5787.5

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SRD 60M_Ant0_5819.5



SRD 60M_Ant1_5819.5



SRD 80M_Ant0_5190

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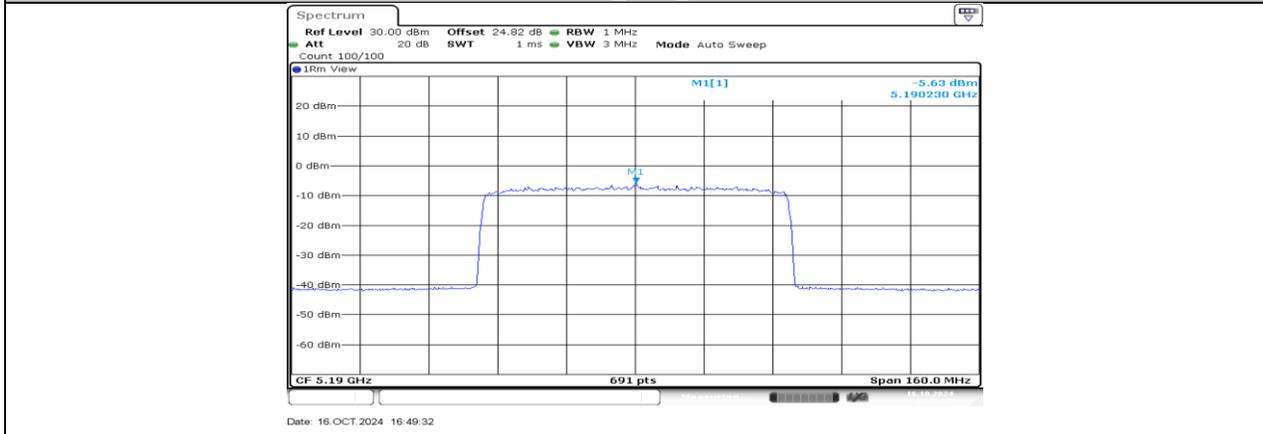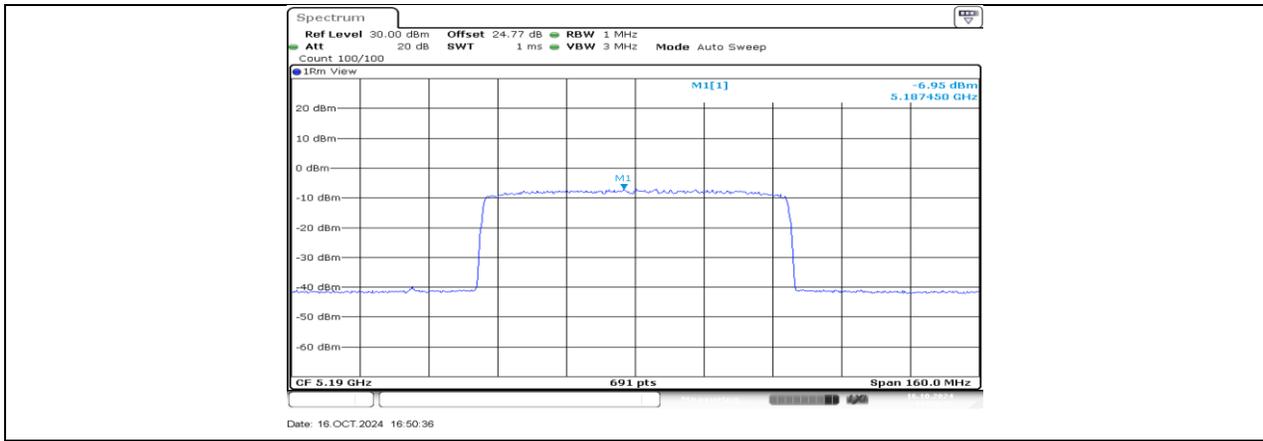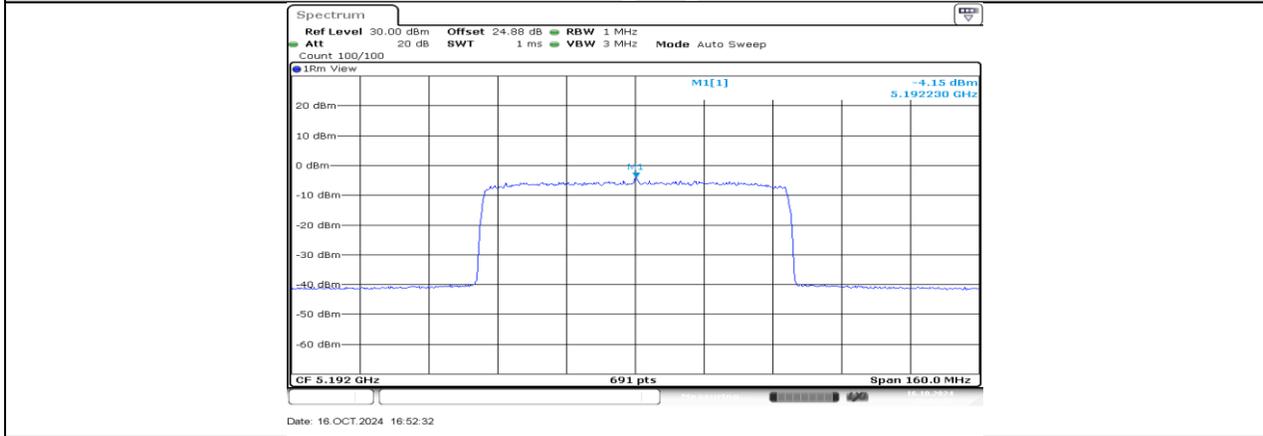
SRD 80M_Ant1_5190



SRD 80M_Ant0_5192



SRD 80M_Ant1_5192

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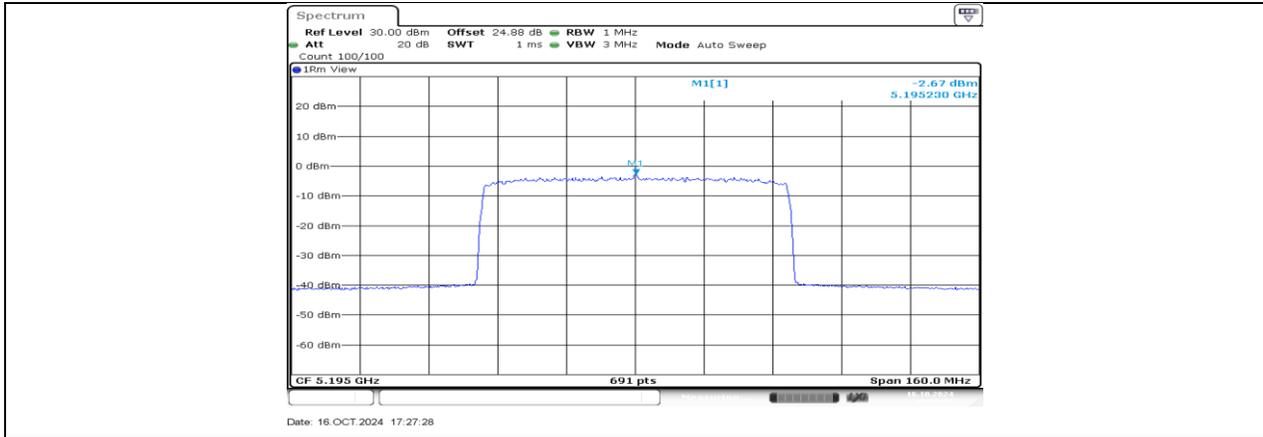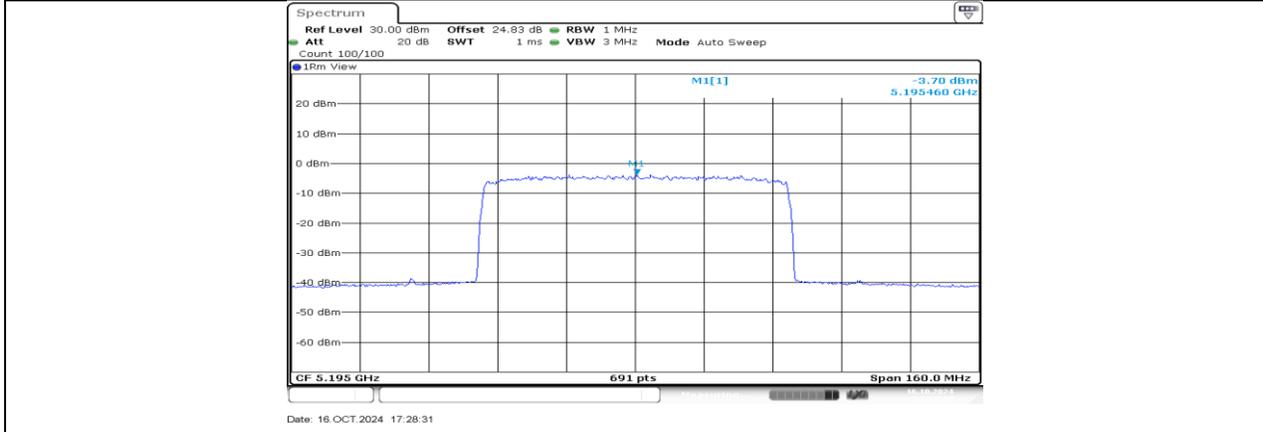
SRD 80M_Ant0_5195



SRD 80M_Ant1_5195



SRD 80M_Ant0_5200

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**Spectrum**

Ref Level 30.00 dBm    Offset 24.83 dB    RBW 1 MHz
Att       20 dB    SWT      1 ms    VBW 3 MHz    Mode Auto Sweep
Count 100/100

M1[1]    -2.51 dBm
5.200230 GHz

CF 5.2 GHz    691 pts    Span 160.0 MHz

Date: 16.OCT.2024  17:36:49

SRD 80M_Ant1_5200



**Spectrum**

Ref Level 30.00 dBm    Offset 24.88 dB    RBW 1 MHz
Att       20 dB    SWT      1 ms    VBW 3 MHz    Mode Auto Sweep
Count 100/100

M1[1]    -0.87 dBm
5.210000 GHz

CF 5.21 GHz    691 pts    Span 160.0 MHz

Date: 16.OCT.2024  17:41:58

SRD 80M_Ant0_5210



**Spectrum**

Ref Level 30.00 dBm    Offset 24.83 dB    RBW 1 MHz
Att       20 dB    SWT      1 ms    VBW 3 MHz    Mode Auto Sweep
Count 100/100

M1[1]    -1.49 dBm
5.196340 GHz

CF 5.21 GHz    691 pts    Span 160.0 MHz

Date: 16.OCT.2024  17:43:15

SRD 80M_Ant1_5210

SRD 80M_Ant0_5765.5

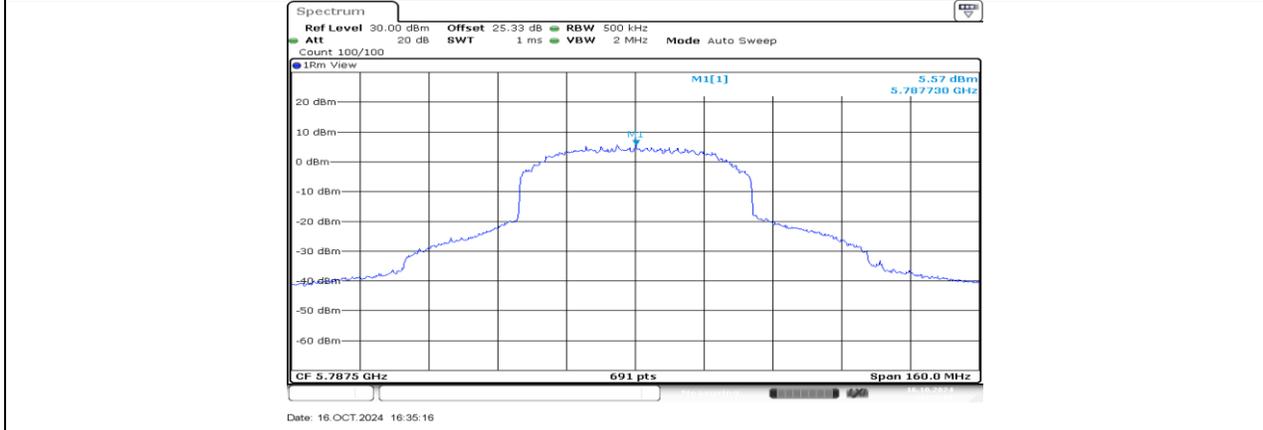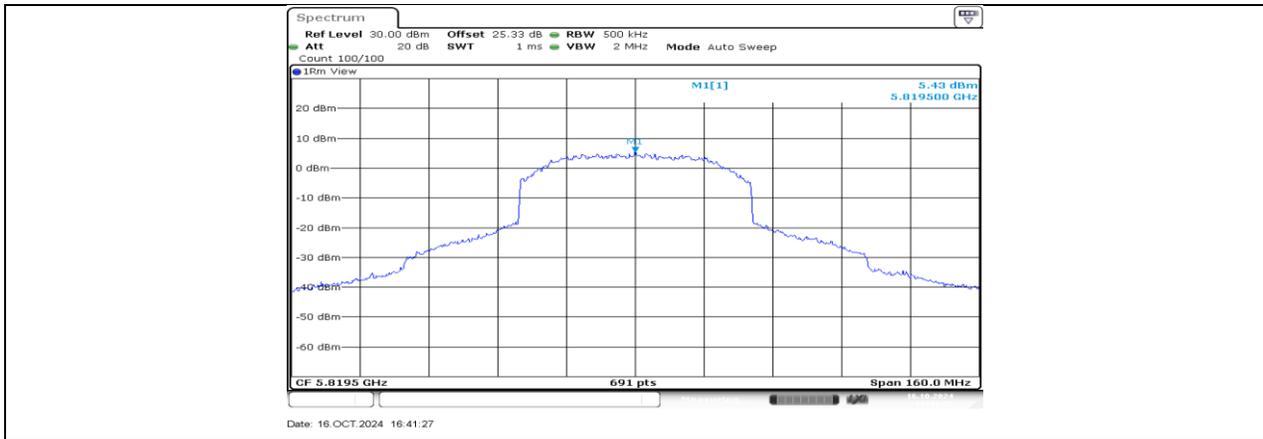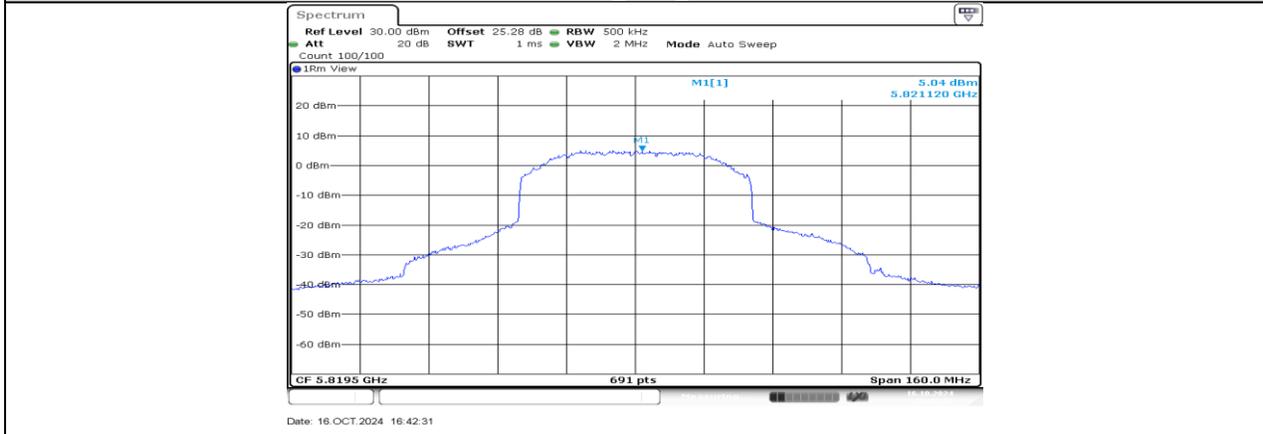

SRD 80M_Ant1_5765.5



SRD 80M_Ant0_5787.5

SRD 80M_Ant1_5787.5
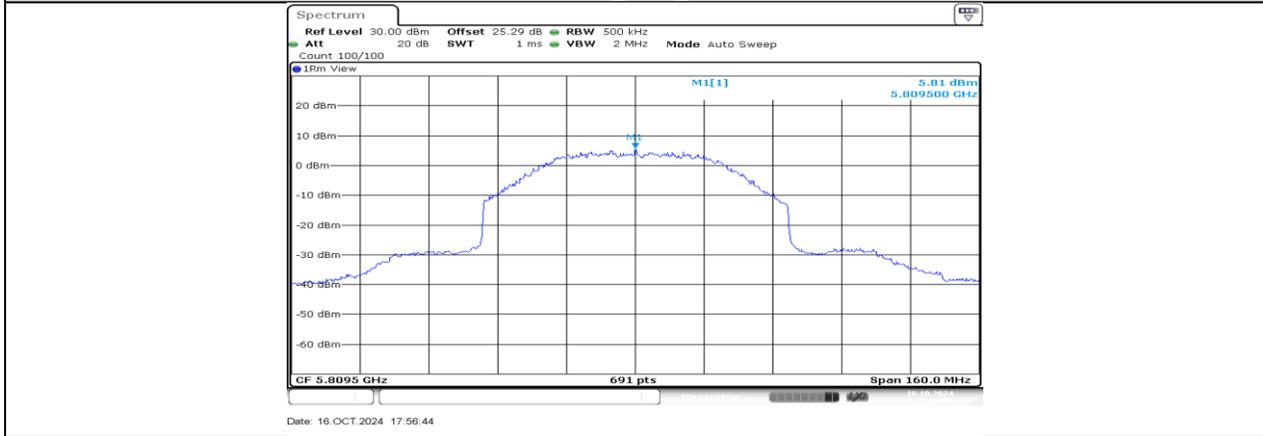


SRD 80M_Ant0_5809.5



SRD 80M_Ant1_5809.5

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## 11.6. APPENDIX F: FREQUENCY STABILITY

### 11.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SRD 10M:5730.5MHz | | | | | | | | | |
| 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 | 5730.5093 | 1.63 | 5730.5004 | 0.08 | 5730.4985 | -0.26 | 5730.4861 | -2.43 |
| TN | VN | 5730.4887 | -1.98 | 5730.4789 | -3.69 | 5730.4806 | -3.38 | 5730.5002 | 0.03 |
| TN | VH | 5730.5039 | 0.69 | 5730.5069 | 1.20 | 5730.5011 | 0.20 | 5730.4751 | -4.35 |

| Frequency Error vs. Temperature | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SRD 10M:5730.5MHz | | | | | | | | | |
| 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 | 5730.4855 | -2.52 | 5730.5027 | 0.47 | 5730.5147 | 2.56 | 5730.4998 | -0.03 |
| 30 | VN | 5730.5116 | 2.02 | 5730.4901 | -1.73 | 5730.5027 | 0.47 | 5730.4844 | -2.72 |
| 20 | VN | 5730.5061 | 1.06 | 5730.5178 | 3.10 | 5730.4935 | -1.13 | 5730.4942 | -1.01 |
| 10 | VN | 5730.4854 | -2.54 | 5730.5214 | 3.73 | 5730.5246 | 4.29 | 5730.4800 | -3.49 |
| 0 | VN | 5730.4981 | -0.34 | 5730.5027 | 0.47 | 5730.4999 | -0.02 | 5730.5249 | 4.35 |
| -10 | VN | 5730.5065 | 1.13 | 5730.4961 | -0.67 | 5730.5047 | 0.82 | 5730.4937 | -1.10 |

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 (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|---|---|---|---|---|---|---|---|
| SRD 10M | 100.00 | 100.00 | 1.0000 | 100.00 | 0.00 | 0.01 | N/A |
| SRD 20M | 100.00 | 100.00 | 1.0000 | 100.00 | 0.00 | 0.01 | N/A |
| SRD 40M | 100.00 | 100.00 | 1.0000 | 100.00 | 0.00 | 0.01 | N/A |
| SRD 60M | 100.00 | 100.00 | 1.0000 | 100.00 | 0.00 | 0.01 | N/A |
| SRD 80M | 100.00 | 100.00 | 1.0000 | 100.00 | 0.00 | 0.01 | N/A |

Note:
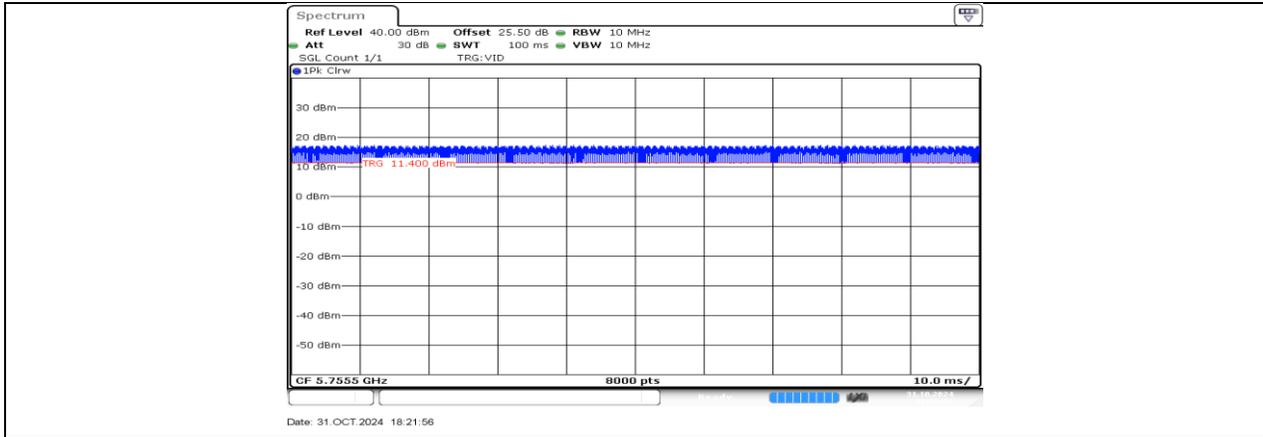Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

## 11.7.2. Test Graphs



SRD 10M_Ant1_5730.5



SRD 20M_Ant1_5735.5



SRD 40M_Ant1_5745.5

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SRD 60M_Ant1_5755.5
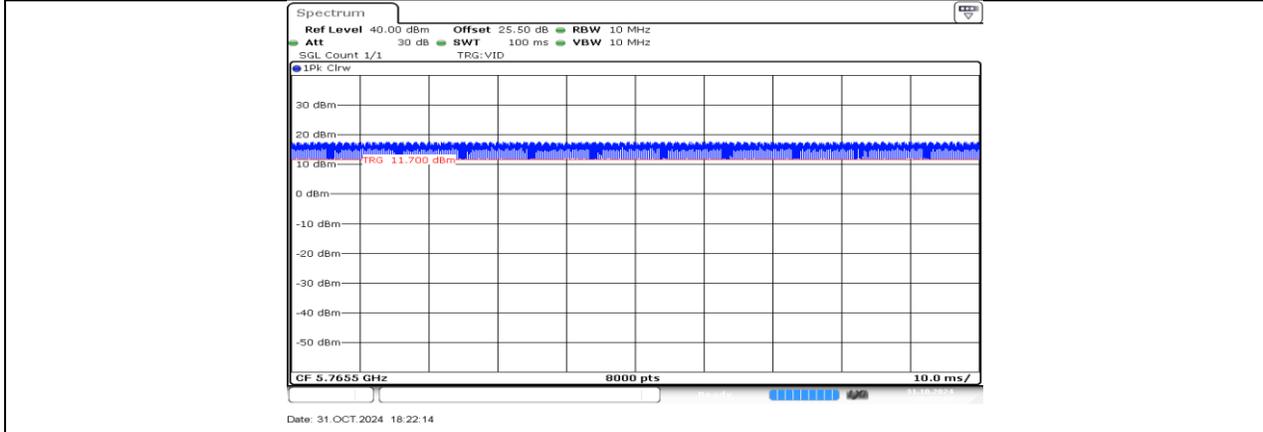


SRD 80M_Ant1_5765.5

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