

Report No.: SEWA2307000102RG01

Rev.: 01

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# Appendix B.1

## GSM850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band    | Channel | Power(dBm) | ERP(dBm)  | Limit(dBm) | Verdict |
|---------|---------|------------|-----------|------------|---------|
| GSM850  | 128     | 32.29      | 32.27     | 38.45      | PASS    |
| GSM850  | 190     | 32.12      | 32.10     | 38.45      | PASS    |
| GSM850  | 251     | 31.87      | 31.85     | 38.45      | PASS    |
| Band    | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
| GSM1900 | 512     | 30.11      | 31.70     | 33.00      | PASS    |
| GSM1900 | 661     | 29.97      | 31.56     | 33.00      | PASS    |
| GSM1900 | 810     | 30.41      | 32.00     | 33.00      | PASS    |



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| Band      | Channel | Slot | Power(dBm) | ERP(dBm)  | Limit(dBm) | Verdict |
|-----------|---------|------|------------|-----------|------------|---------|
| EGPRS850  | 128     | 1    | 28.13      | 28.11     | 38.45      | PASS    |
| EGPRS850  | 128     | 2    | 27.78      | 27.76     | 38.45      | PASS    |
| EGPRS850  | 128     | 3    | 25.82      | 25.80     | 38.45      | PASS    |
| EGPRS850  | 128     | 4    | 24.77      | 24.75     | 38.45      | PASS    |
| EGPRS850  | 190     | 1    | 27.95      | 27.93     | 38.45      | PASS    |
| EGPRS850  | 190     | 2    | 27.58      | 27.56     | 38.45      | PASS    |
| EGPRS850  | 190     | 3    | 25.66      | 25.64     | 38.45      | PASS    |
| EGPRS850  | 190     | 4    | 24.61      | 24.59     | 38.45      | PASS    |
| EGPRS850  | 251     | 1    | 27.39      | 27.37     | 38.45      | PASS    |
| EGPRS850  | 251     | 2    | 27.02      | 27.00     | 38.45      | PASS    |
| EGPRS850  | 251     | 3    | 25.10      | 25.08     | 38.45      | PASS    |
| EGPRS850  | 251     | 4    | 24.04      | 24.02     | 38.45      | PASS    |
| Band      | Channel | Slot | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
| EGPRS1900 | 512     | 1    | 26.85      | 28.44     | 33.00      | PASS    |
| EGPRS1900 | 512     | 2    | 26.16      | 27.75     | 33.00      | PASS    |
| EGPRS1900 | 512     | 3    | 24.07      | 25.66     | 33.00      | PASS    |
| EGPRS1900 | 512     | 4    | 23.26      | 24.85     | 33.00      | PASS    |
| EGPRS1900 | 661     | 1    | 26.87      | 28.46     | 33.00      | PASS    |
| EGPRS1900 | 661     | 2    | 26.21      | 27.80     | 33.00      | PASS    |
| EGPRS1900 | 661     | 3    | 24.11      | 25.70     | 33.00      | PASS    |
| EGPRS1900 | 661     | 4    | 23.37      | 24.96     | 33.00      | PASS    |
| EGPRS1900 | 810     | 1    | 26.82      | 28.41     | 33.00      | PASS    |
| EGPRS1900 | 810     | 2    | 26.24      | 27.83     | 33.00      | PASS    |
| EGPRS1900 | 810     | 3    | 24.14      | 25.73     | 33.00      | PASS    |
| EGPRS1900 | 810     | 4    | 23.26      | 24.85     | 33.00      | PASS    |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band      | Channel | Result(dB) | Limit(dB) | Verdict |
|-----------|---------|------------|-----------|---------|
| GSM850    | 128     | 8.1        | 13        | PASS    |
| GSM850    | 190     | 8.1        | 13        | PASS    |
| GSM850    | 251     | 8.48       | 13        | PASS    |
| EGPRS850  | 128     | 12.62      | 13        | PASS    |
| EGPRS850  | 190     | 12.6       | 13        | PASS    |
| EGPRS850  | 251     | 12.6       | 13        | PASS    |
| GSM1900   | 512     | 9.8        | 13        | PASS    |
| GSM1900   | 661     | 9.98       | 13        | PASS    |
| GSM1900   | 810     | 9.76       | 13        | PASS    |
| EGPRS1900 | 512     | 12.74      | 13        | PASS    |
| EGPRS1900 | 661     | 12.64      | 13        | PASS    |
| EGPRS1900 | 810     | 12.64      | 13        | PASS    |



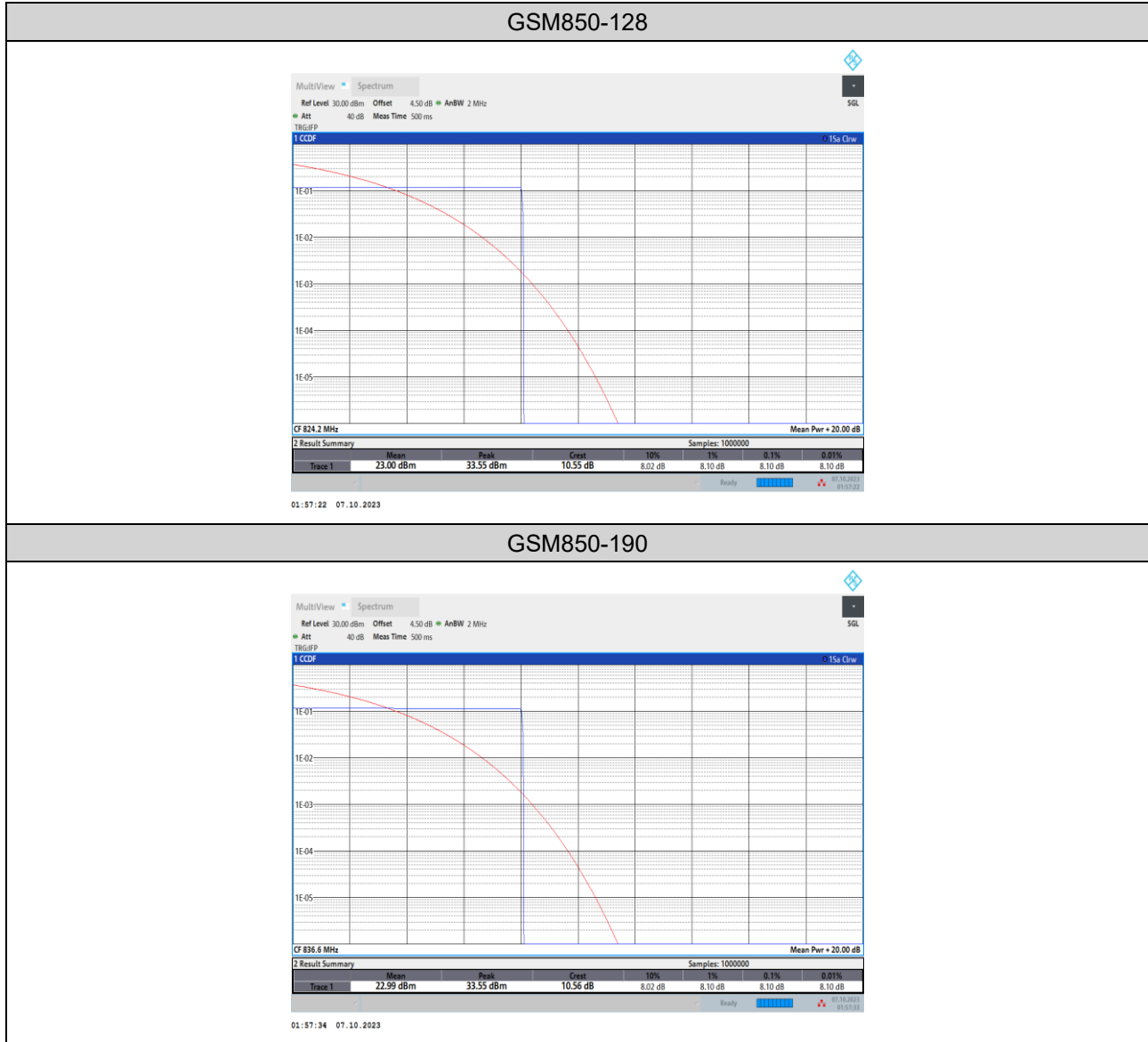
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Test Graphs

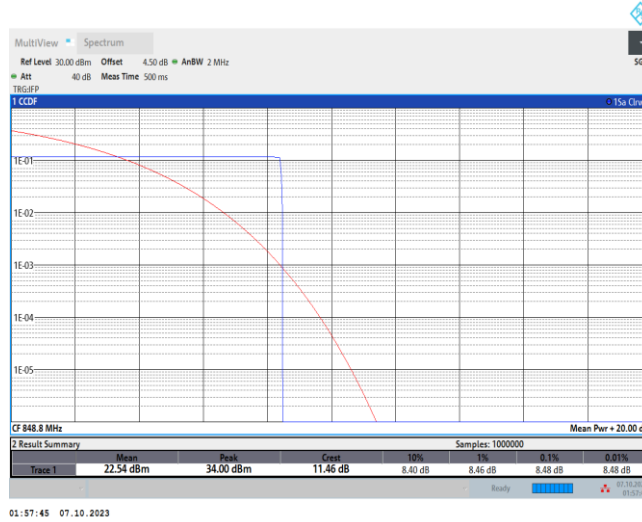


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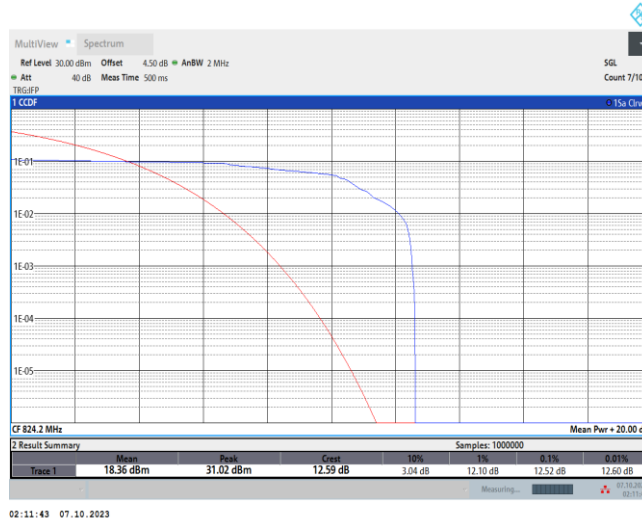
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GSM850-251



EGPRS850-128

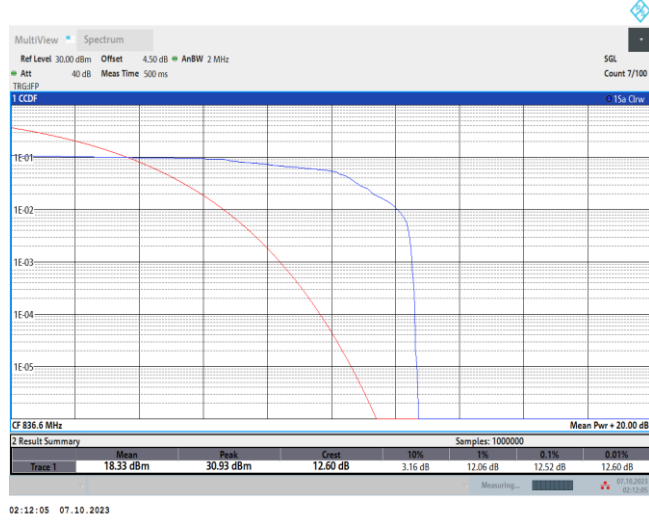


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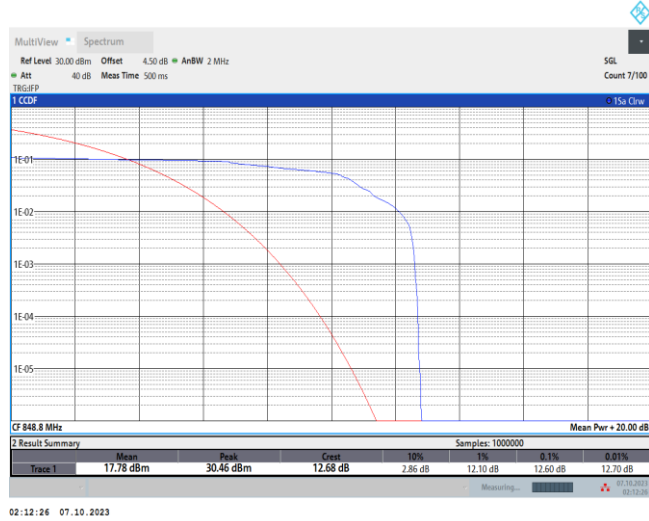
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EGPRS850-190



EGPRS850-251

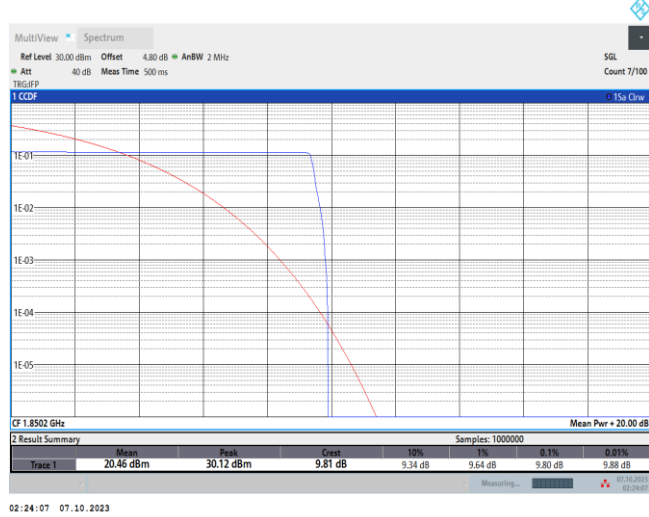


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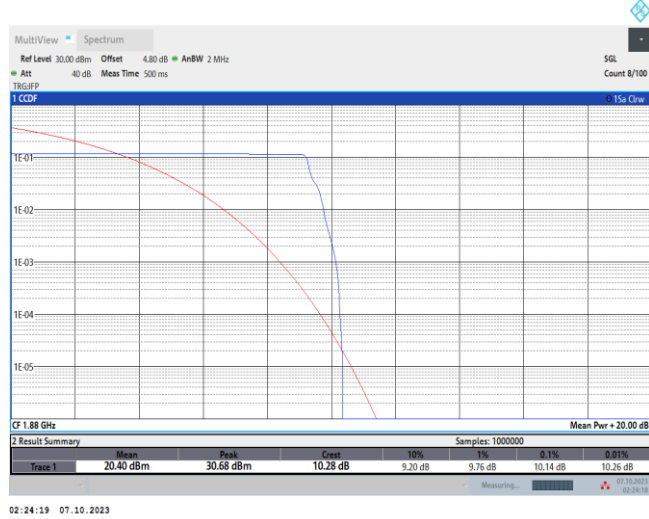
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GSM1900-512



GSM1900-661



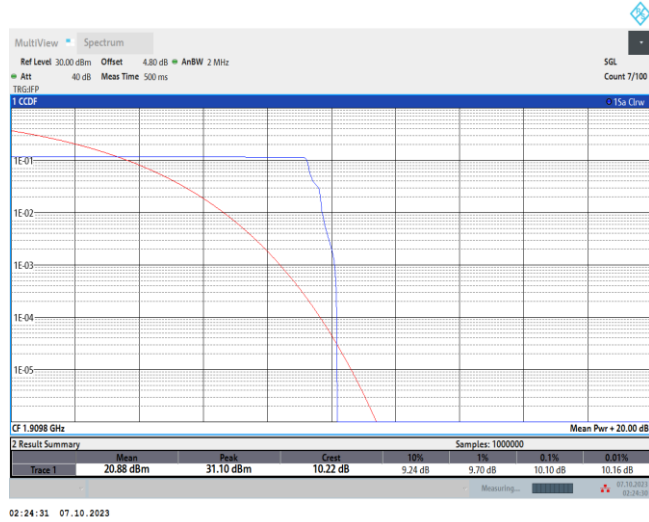
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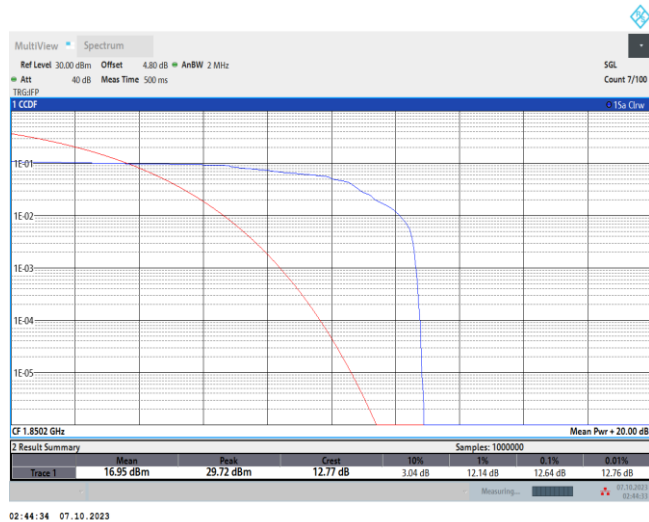
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GSM1900-810



EGPRS1900-512

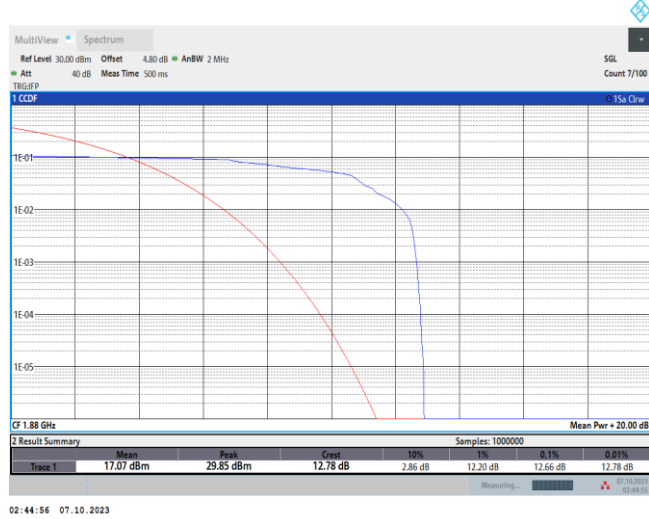


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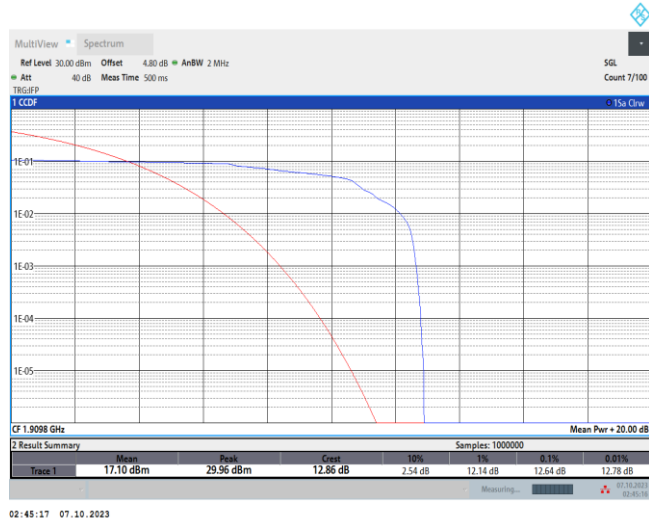
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EGPRS1900-661



EGPRS1900-810



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band      | Channel | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) | Verdict |
|-----------|---------|--------------------------|----------------------|-------------|---------|
| GSM850    | 128     | 0.246                    | 0.31                 | ---         | PASS    |
| GSM850    | 190     | 0.246                    | 0.32                 | ---         | PASS    |
| GSM850    | 251     | 0.246                    | 0.31                 | ---         | PASS    |
| EGPRS850  | 128     | 0.248                    | 0.32                 | ---         | PASS    |
| EGPRS850  | 190     | 0.247                    | 0.32                 | ---         | PASS    |
| EGPRS850  | 251     | 0.248                    | 0.32                 | ---         | PASS    |
| GSM1900   | 512     | 0.242                    | 0.31                 | ---         | PASS    |
| GSM1900   | 661     | 0.245                    | 0.31                 | ---         | PASS    |
| GSM1900   | 810     | 0.245                    | 0.32                 | ---         | PASS    |
| EGPRS1900 | 512     | 0.245                    | 0.32                 | ---         | PASS    |
| EGPRS1900 | 661     | 0.249                    | 0.32                 | ---         | PASS    |
| EGPRS1900 | 810     | 0.246                    | 0.32                 | ---         | PASS    |



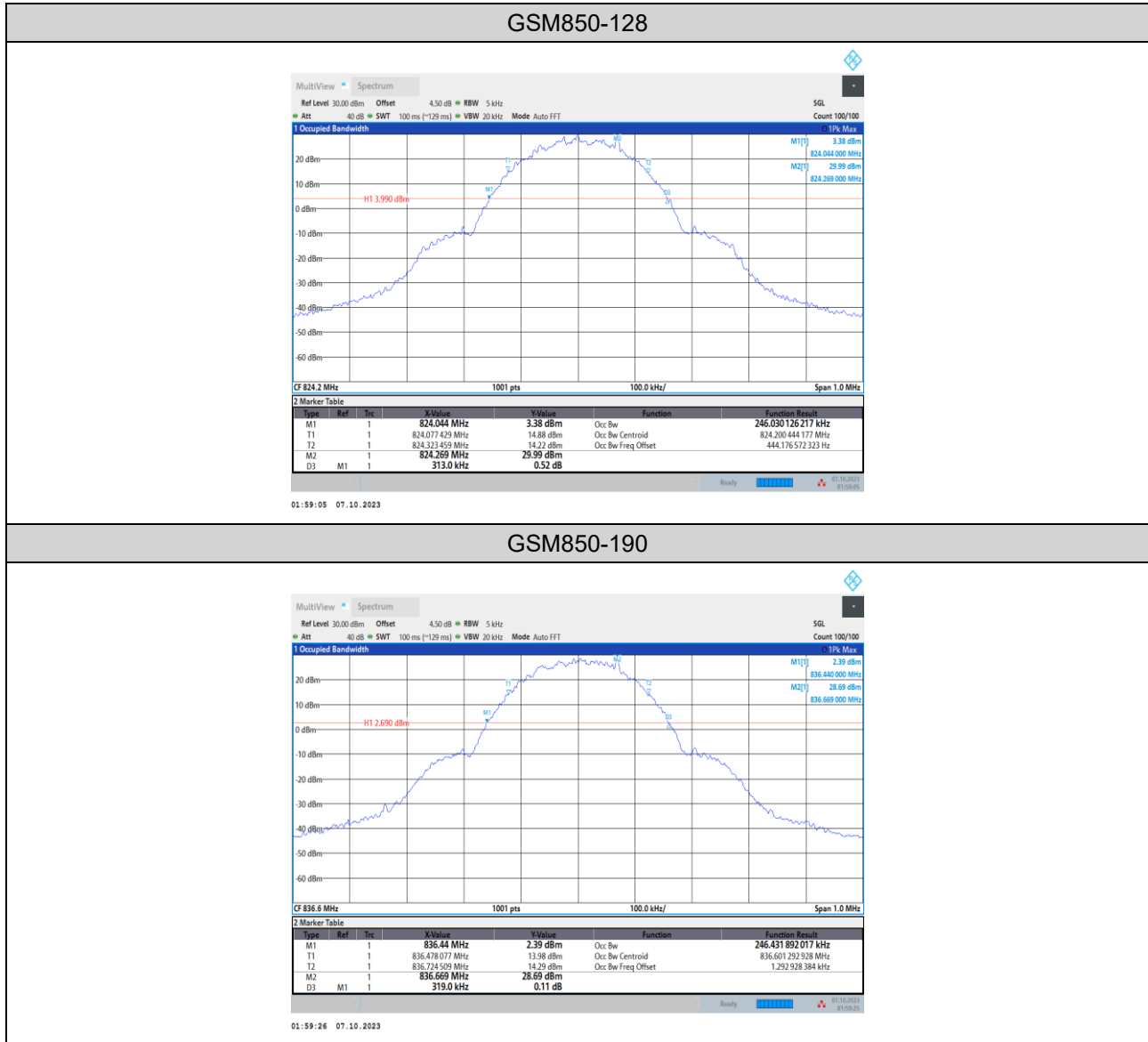
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Test Graphs

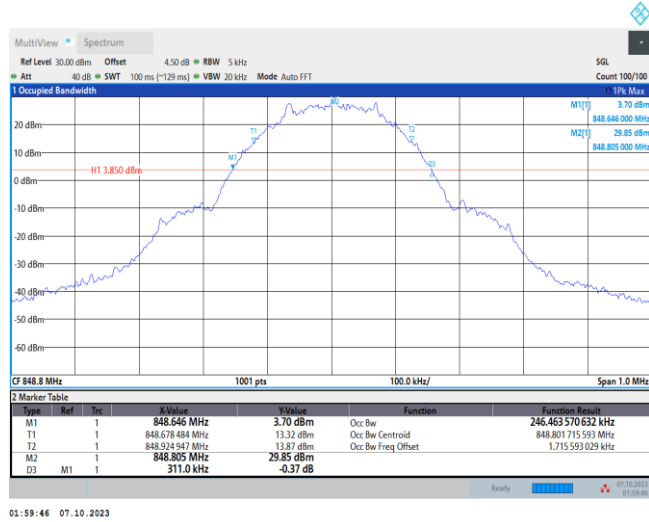


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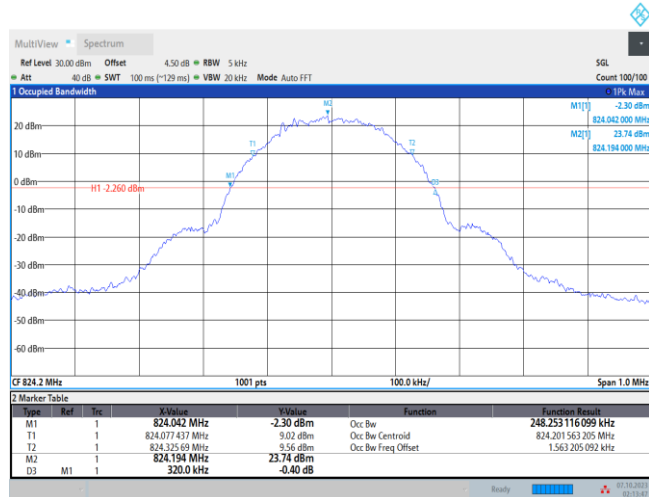
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01:59:46 07.10.2023

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02:13:48 07.10.2023

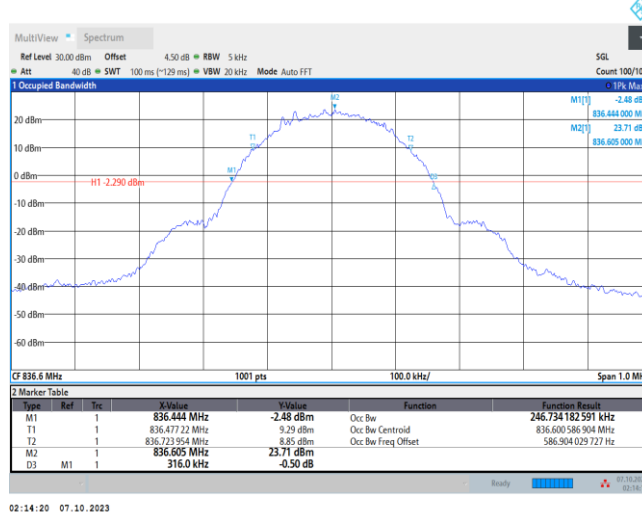


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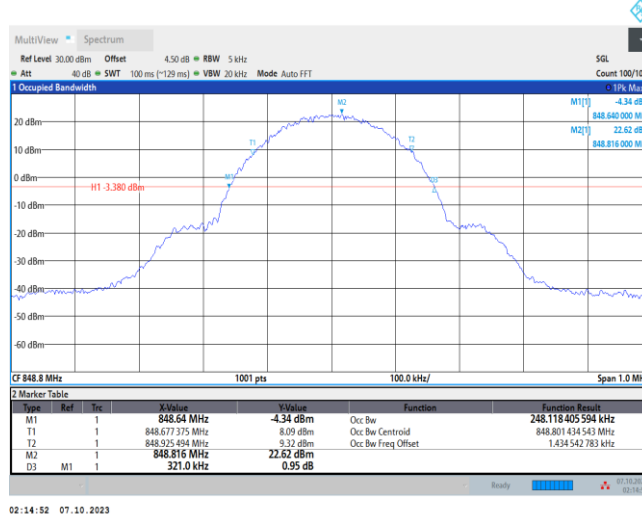
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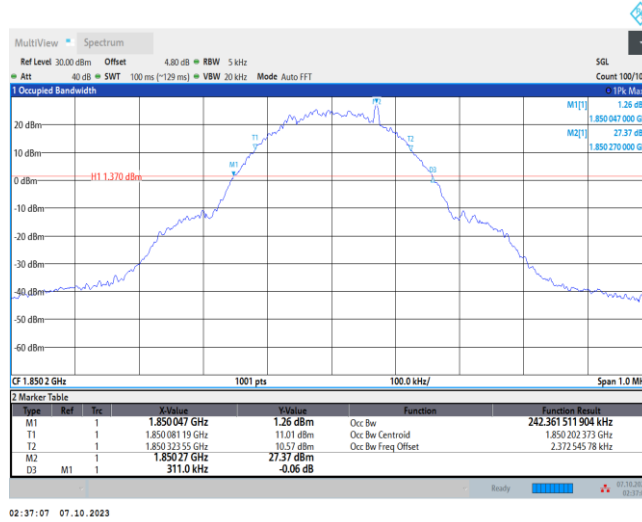


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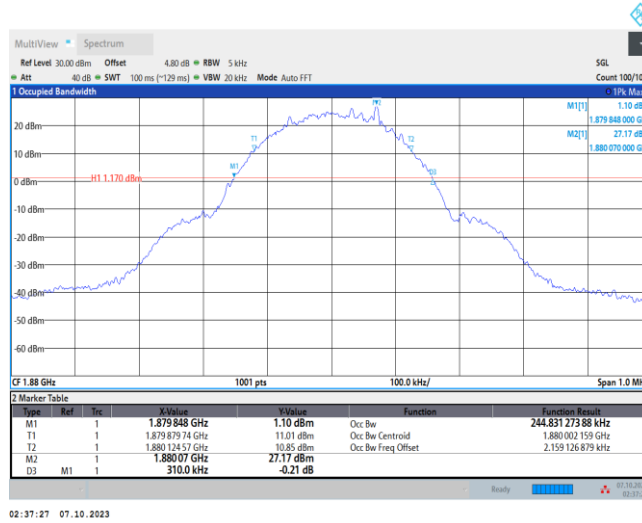
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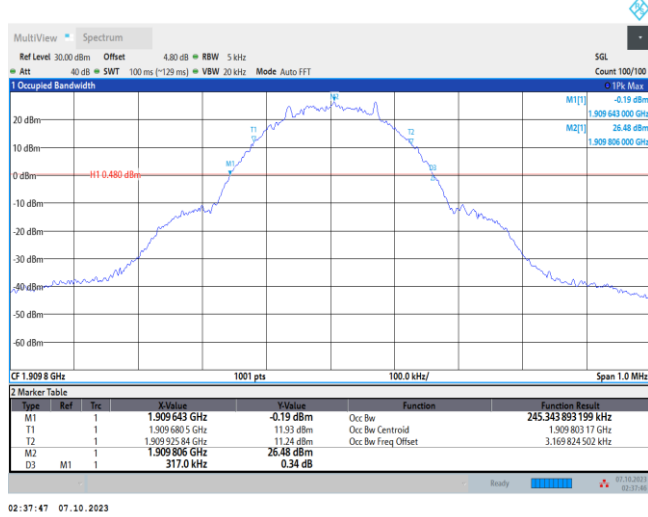


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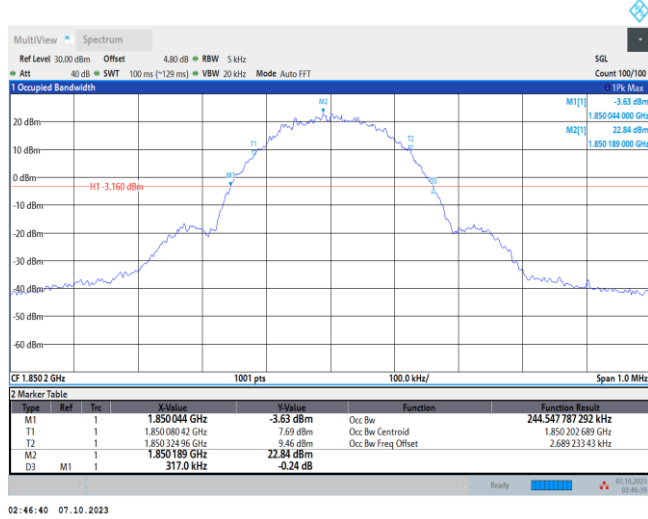
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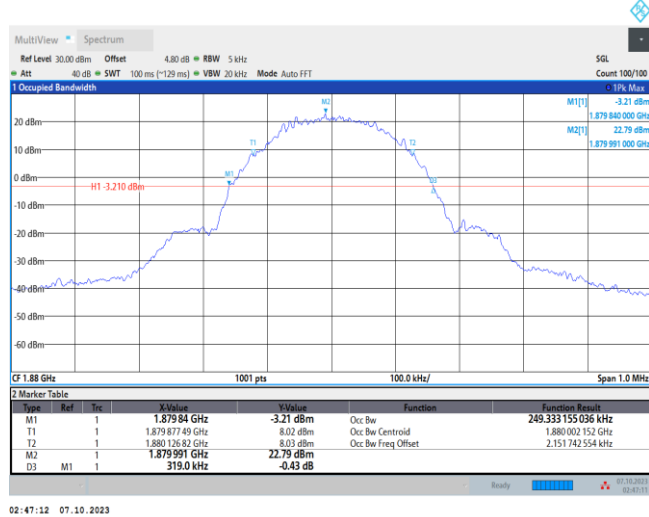
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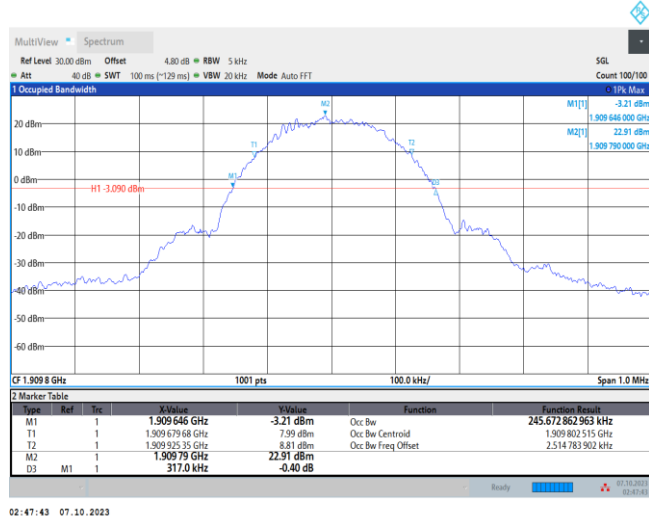
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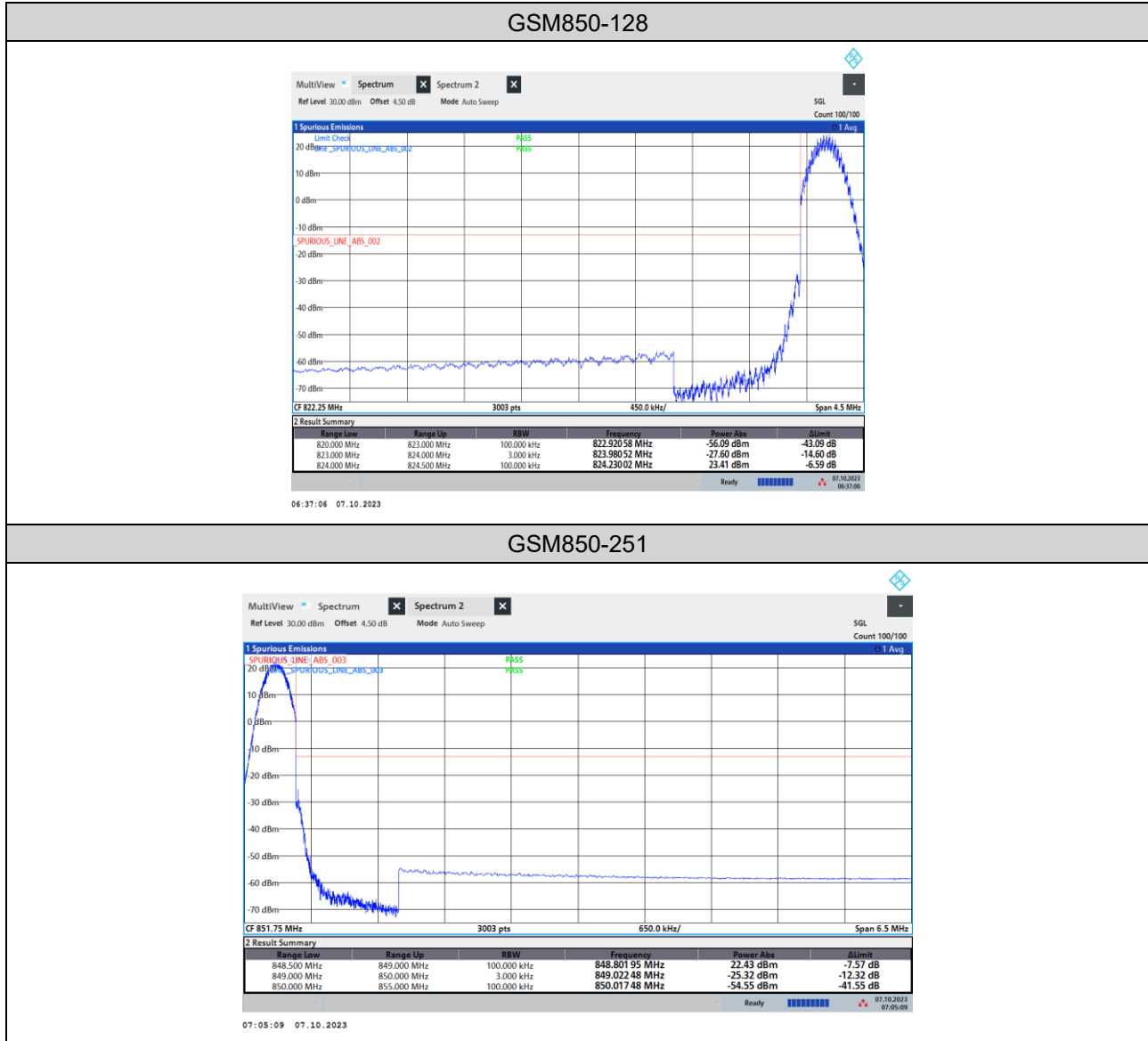
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## Band Edge

## Test Graphs

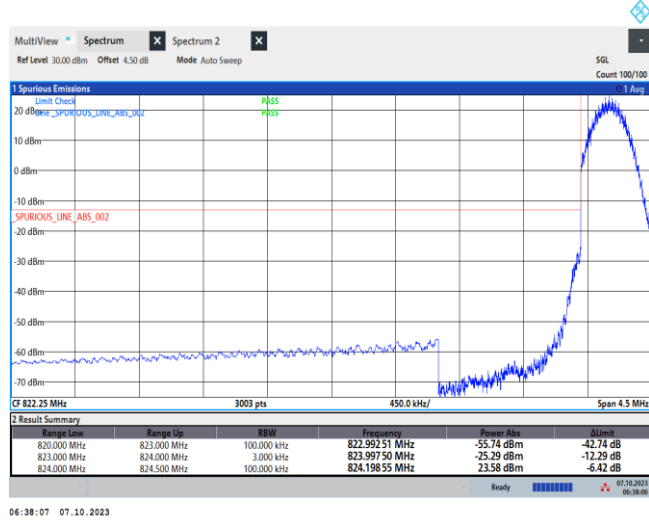


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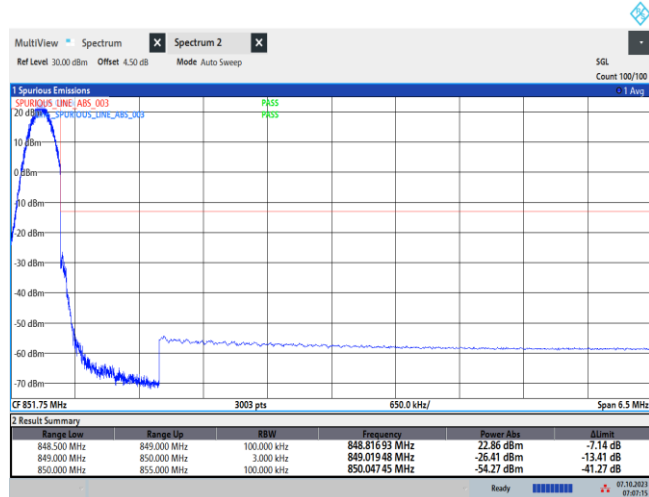
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06:38:07 07.10.2023

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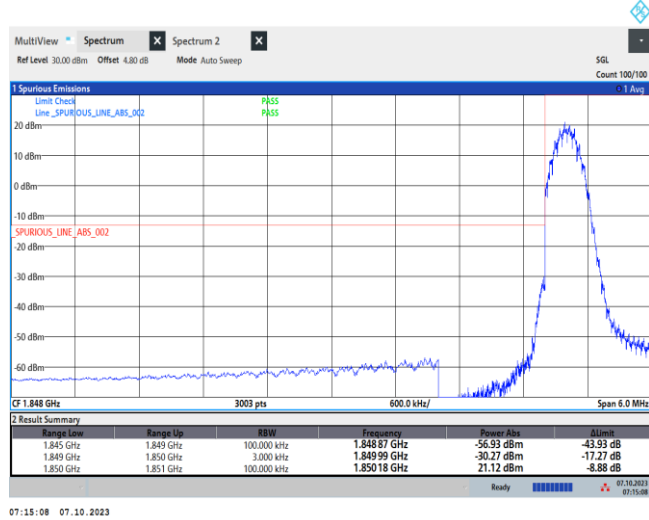


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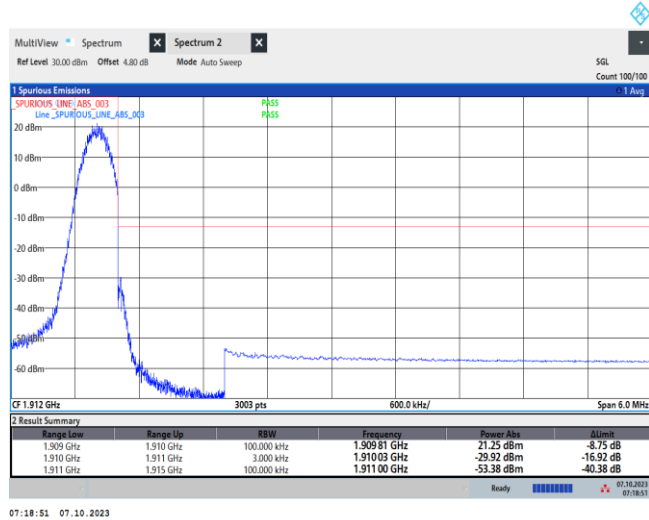
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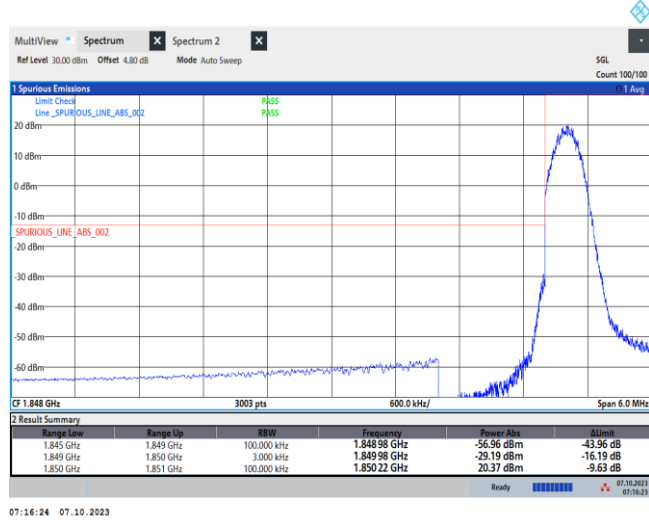


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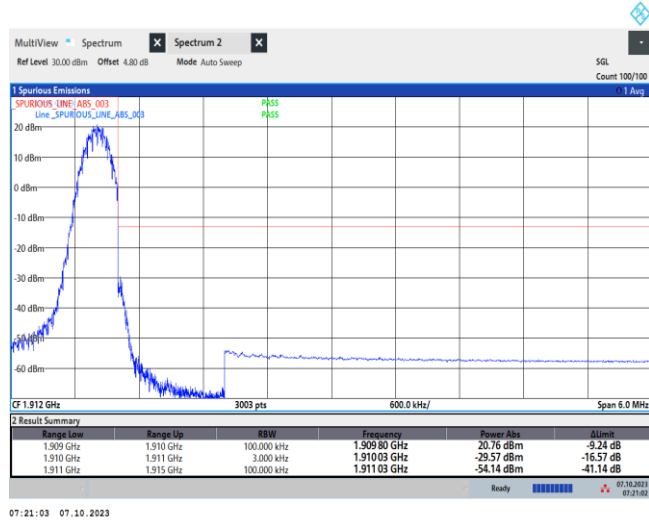
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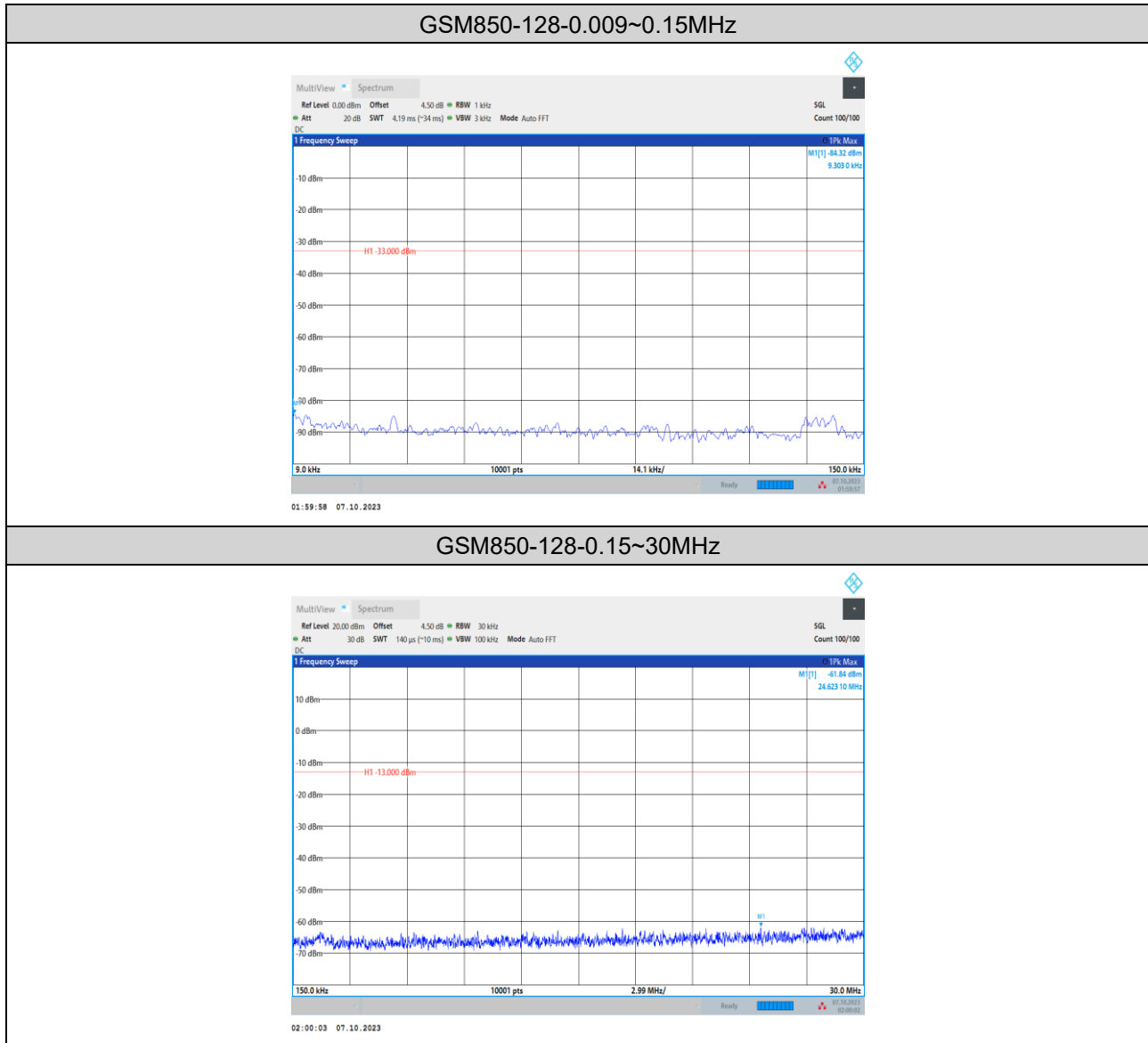
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## Conducted Spurious Emission

### Test Graphs



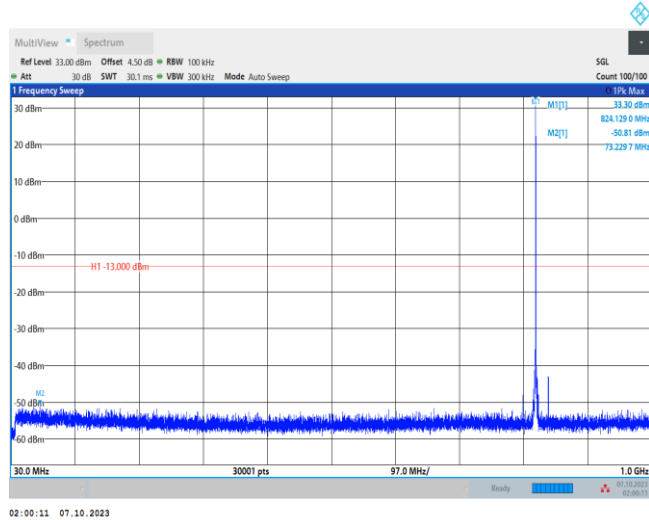
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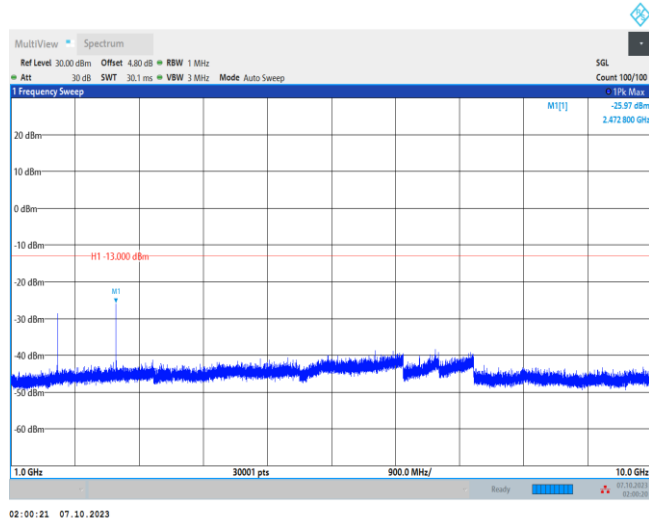
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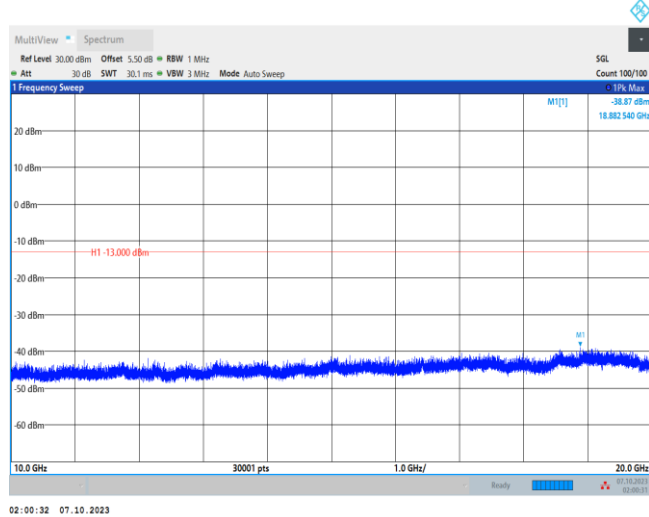


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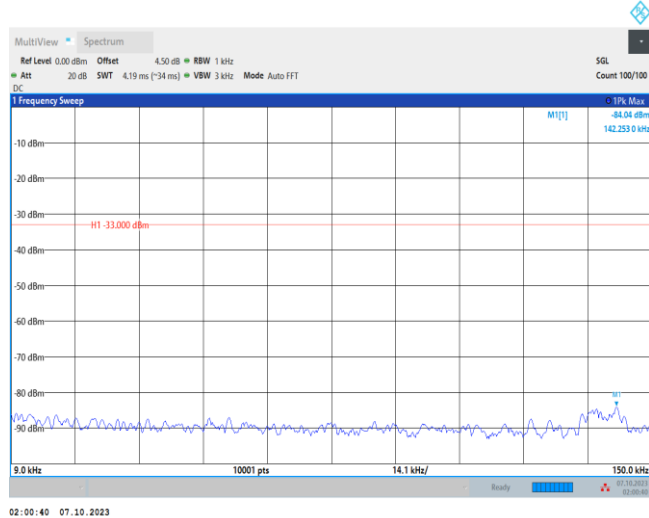
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GSM850-190-0.009~0.15MHz



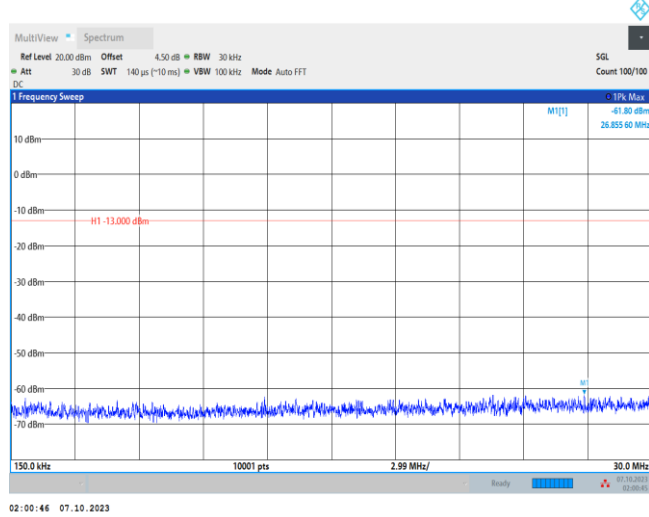
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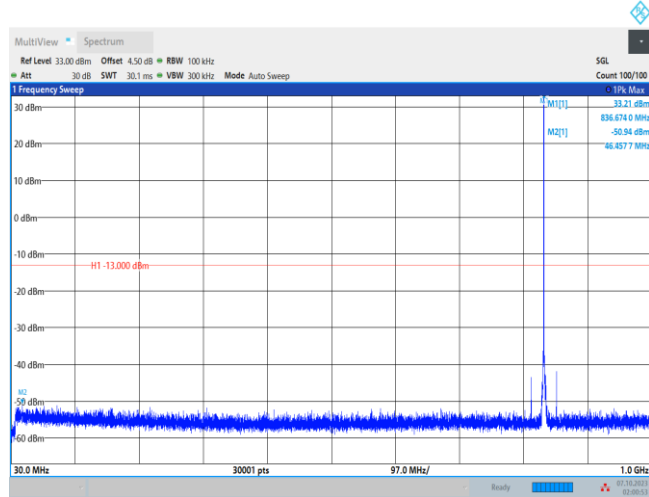


GSM850-190-0.15~30MHz



02:00:46 07.10.2023

GSM850-190-30~1000MHz



02:00:54 07.10.2023



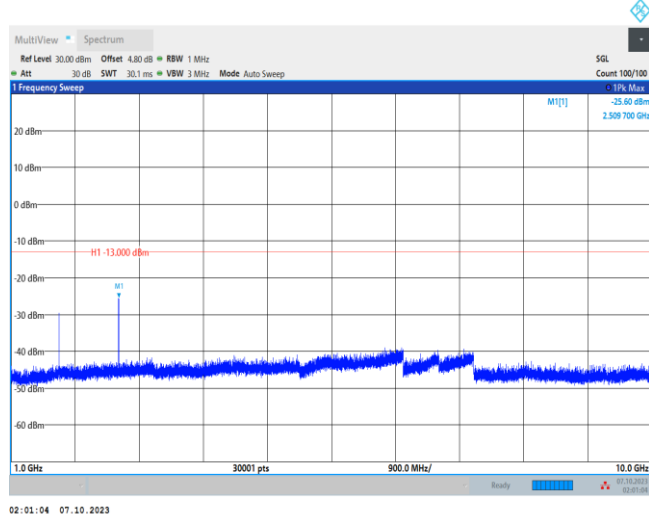
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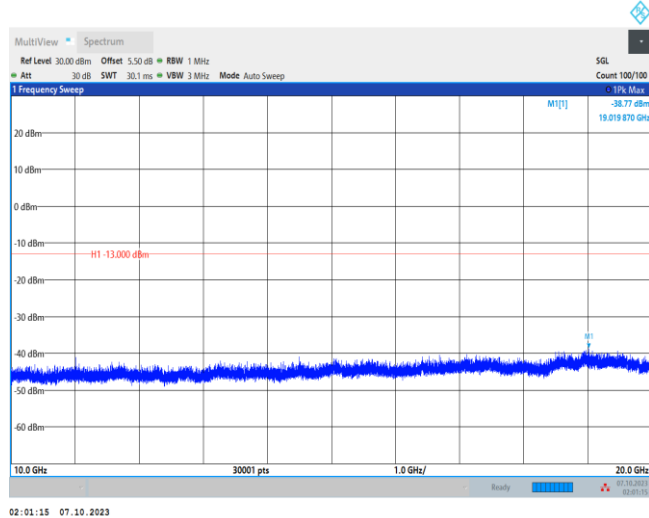
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GSM850-190-1000~10000MHz



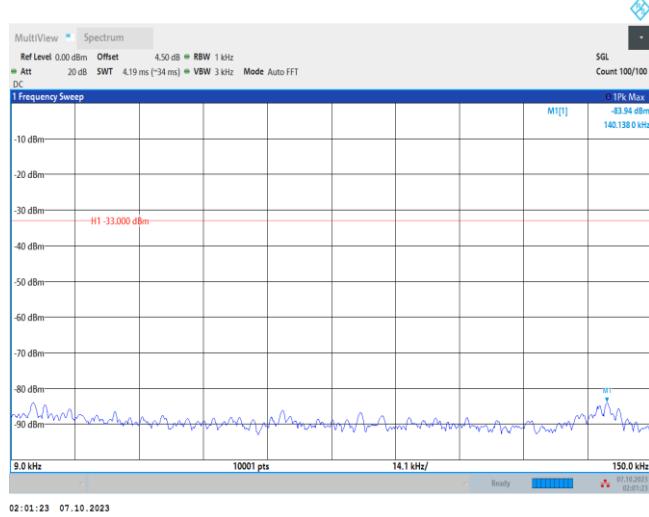
GSM850-190-10000~20000MHz



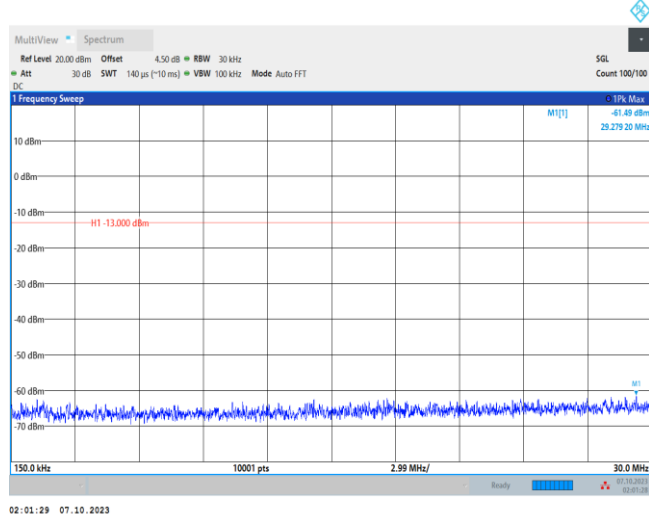
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz

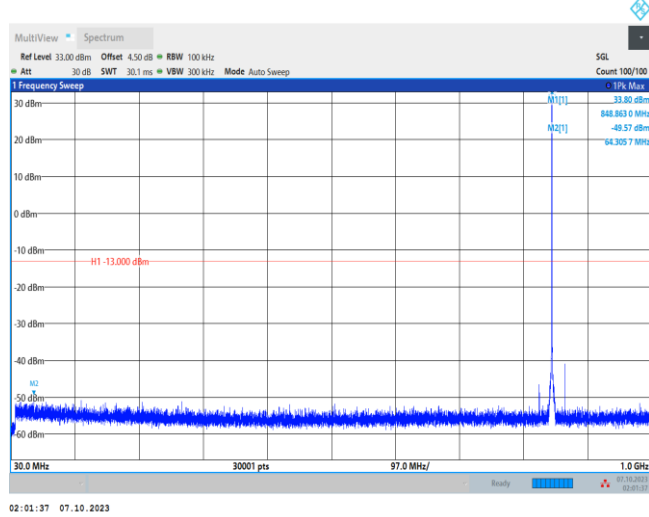


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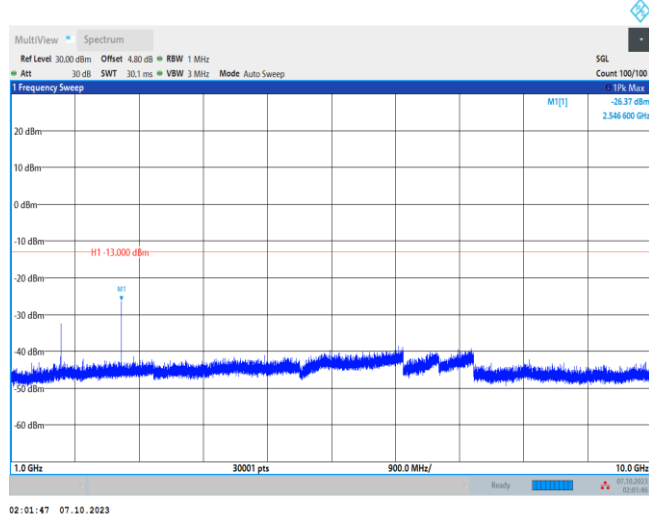
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz

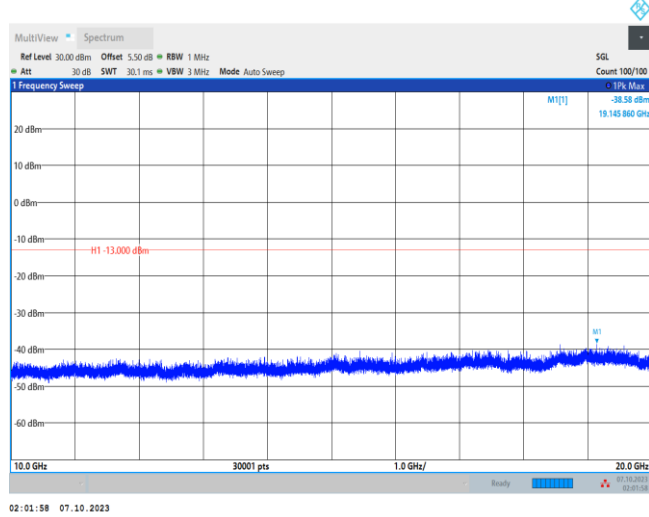


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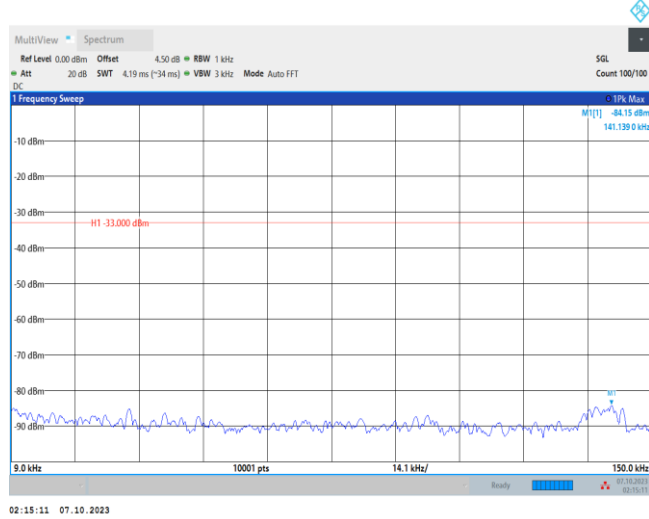
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz

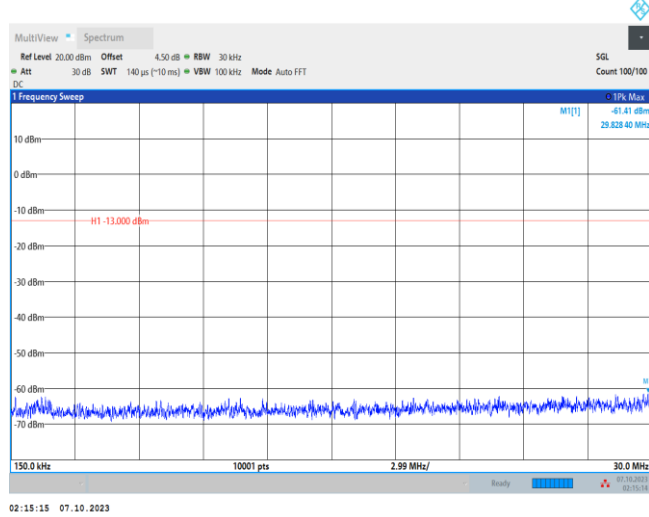


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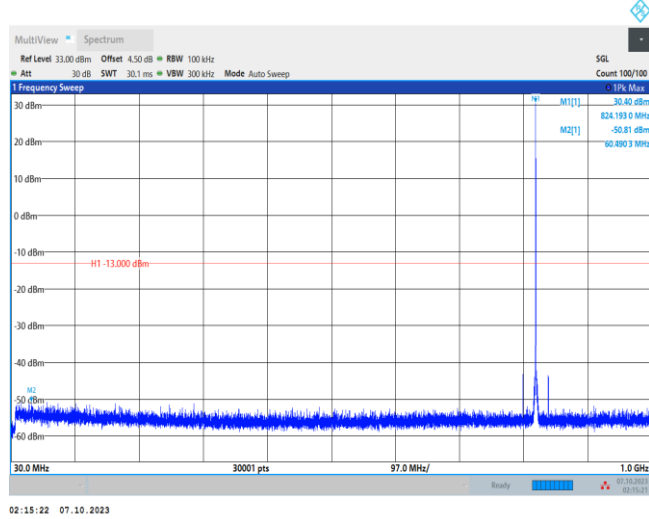
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz

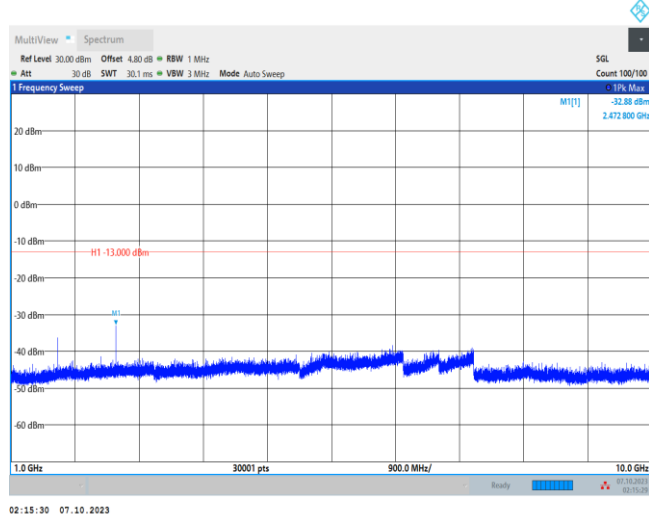


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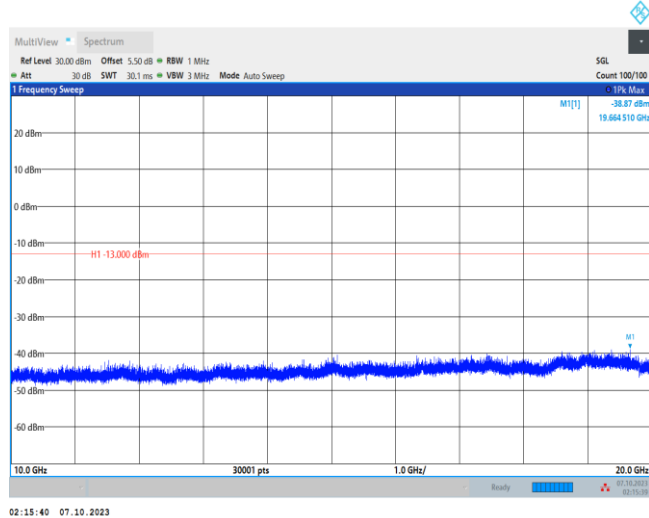
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz

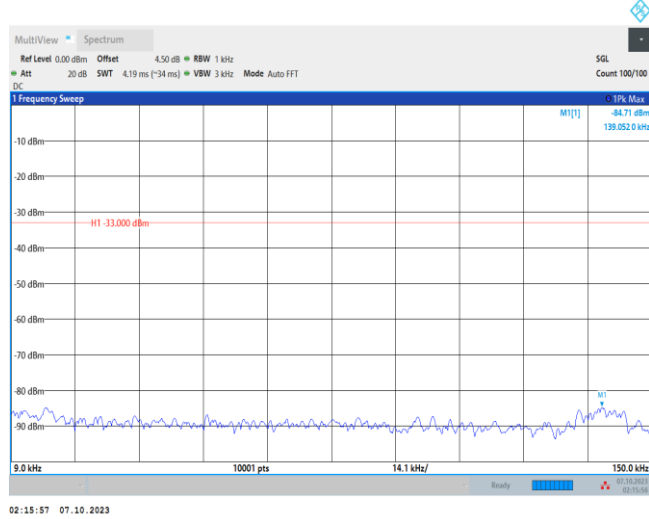


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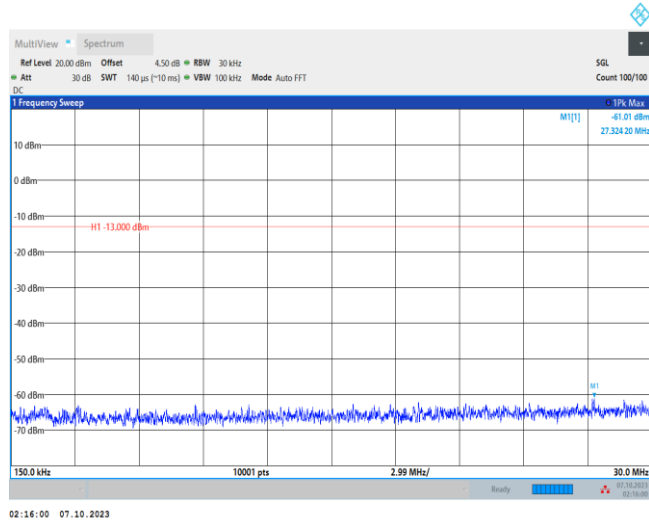
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



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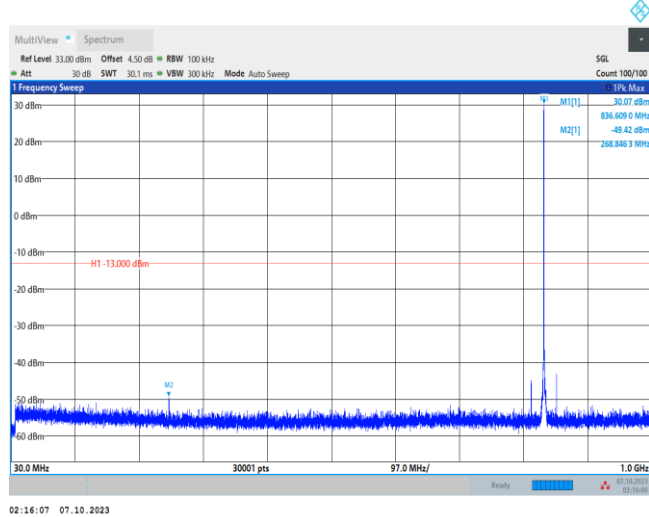
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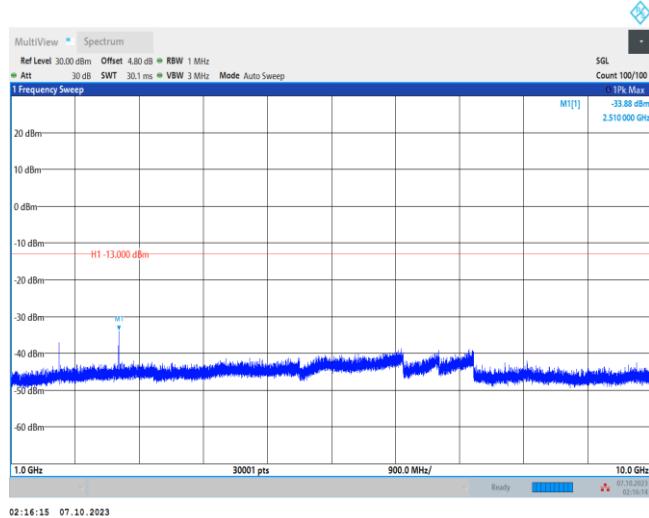
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EGPRS850-190-30~1000MHz



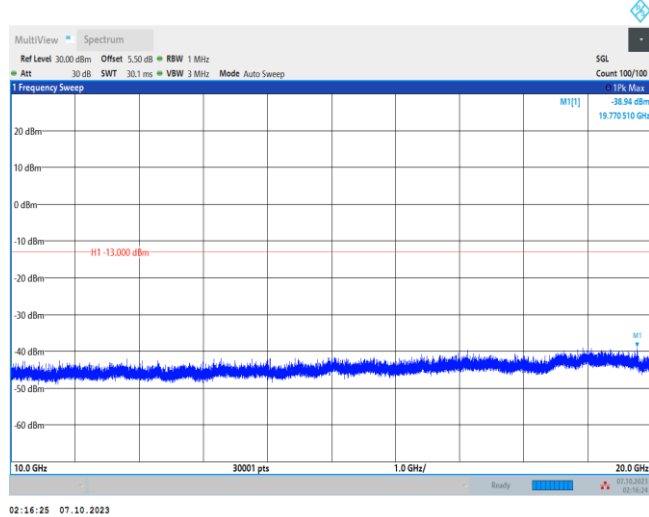
EGPRS850-190-1000~10000MHz



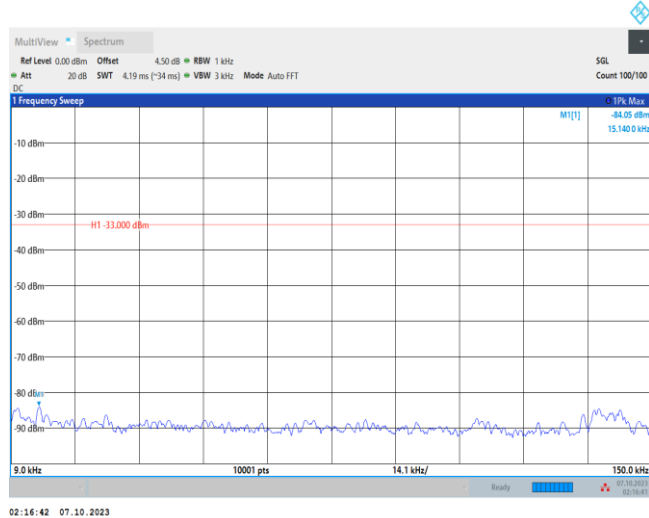
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz

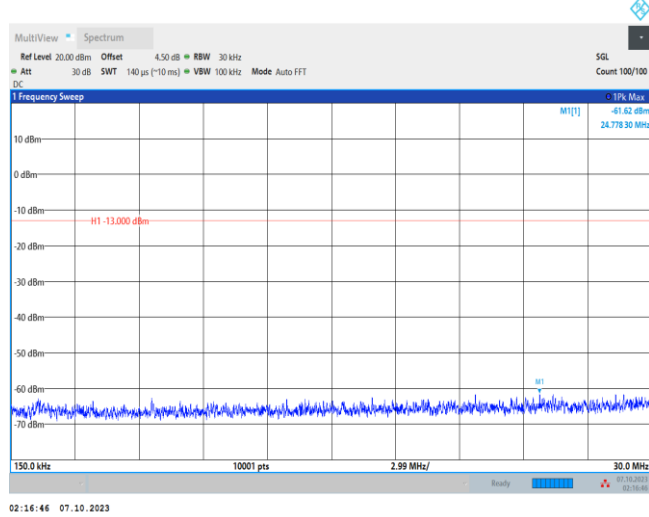


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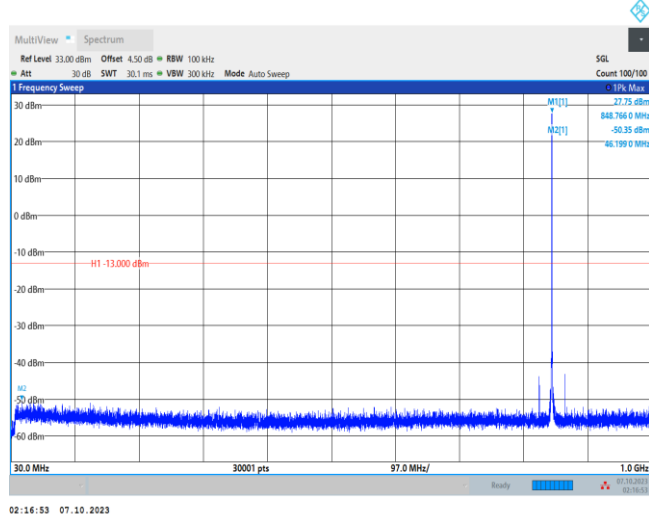
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz

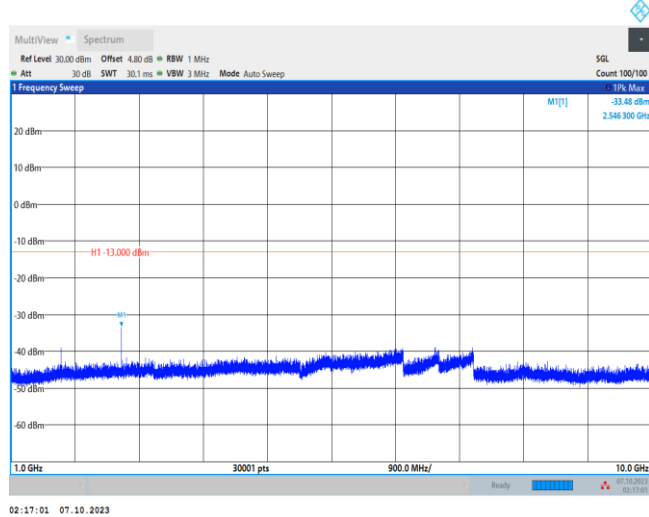


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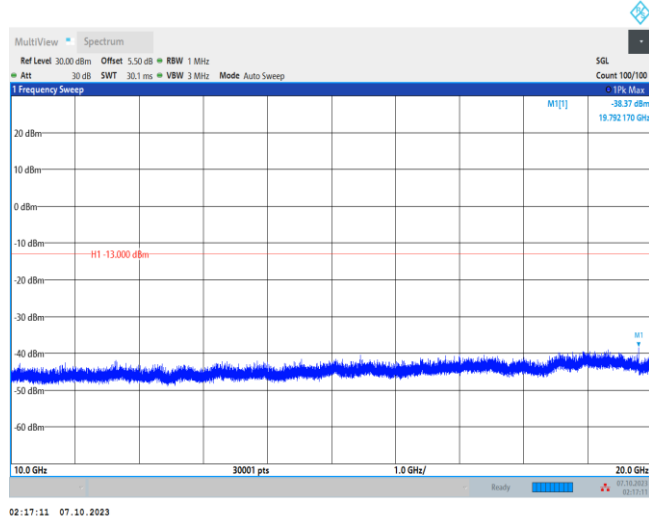
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EGPRS850-251-10000~20000MHz

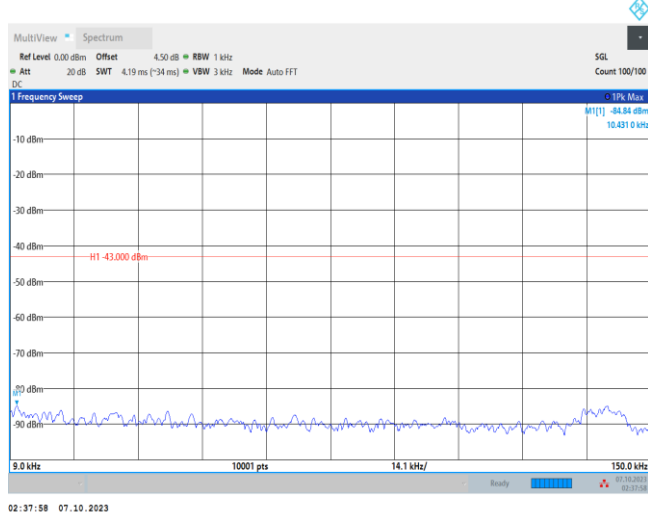


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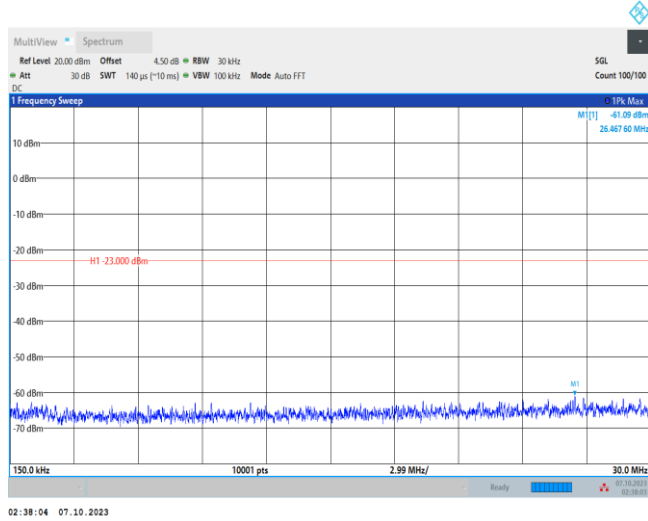
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GSM1900-512-0.009~0.15MHz



GSM1900-512-0.15~30MHz



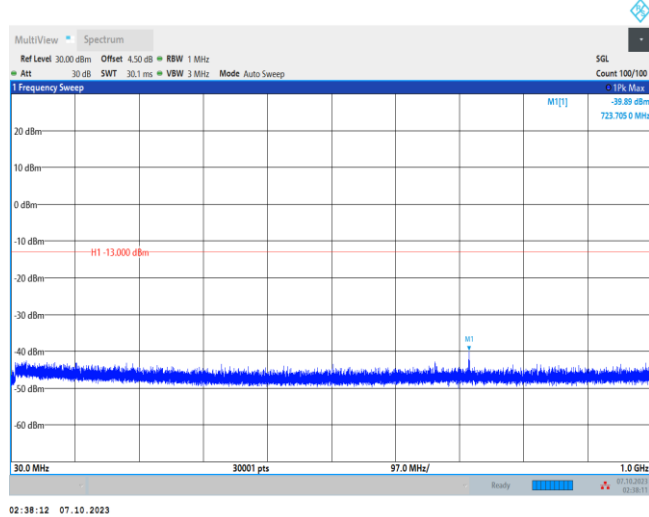
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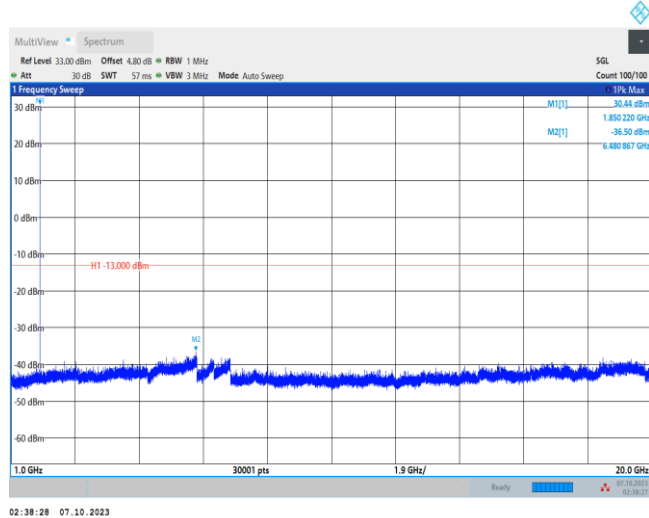
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz

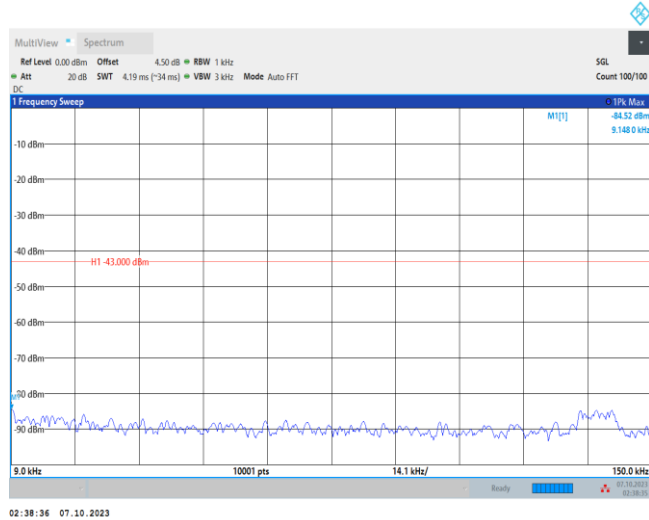


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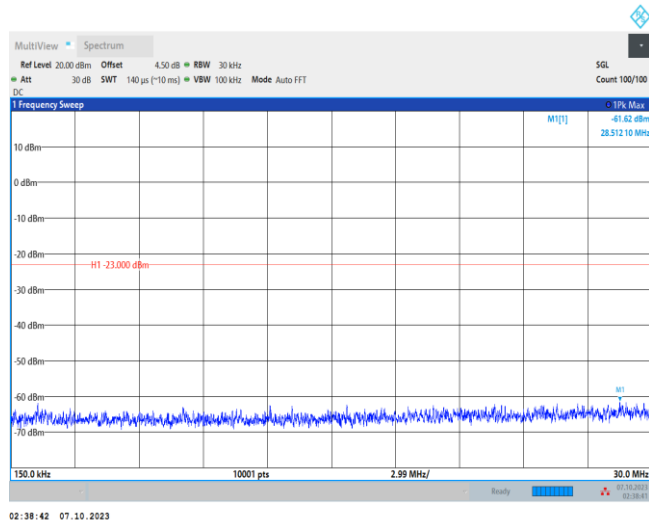
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



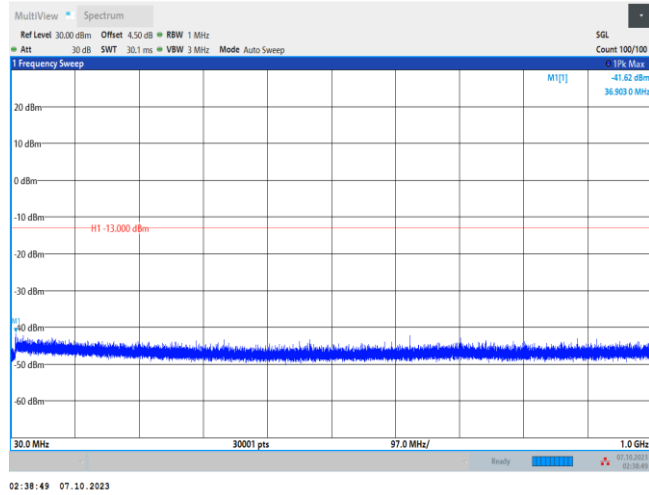
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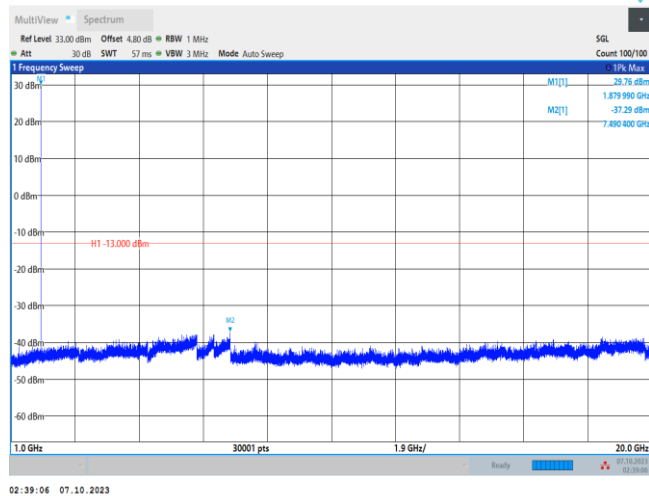
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GSM1900-661-30~1000MHz



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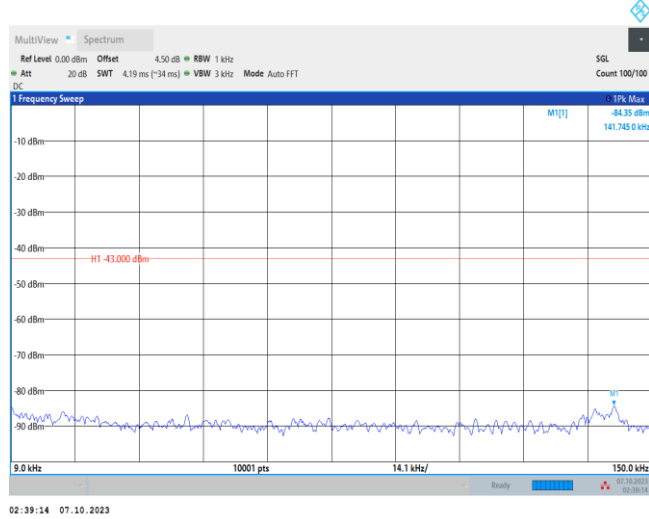
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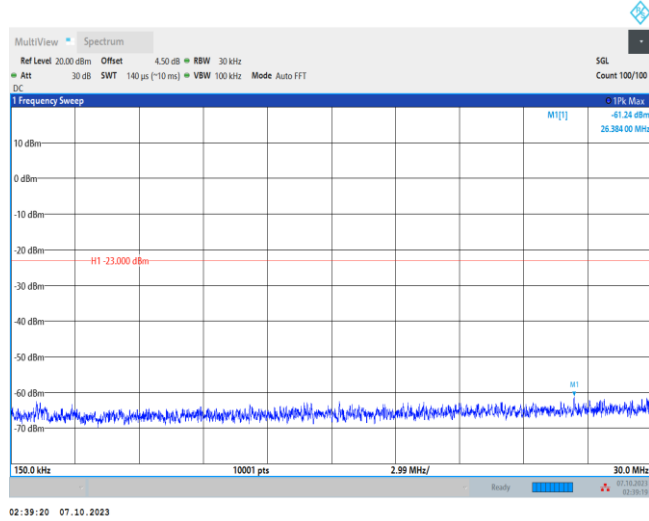
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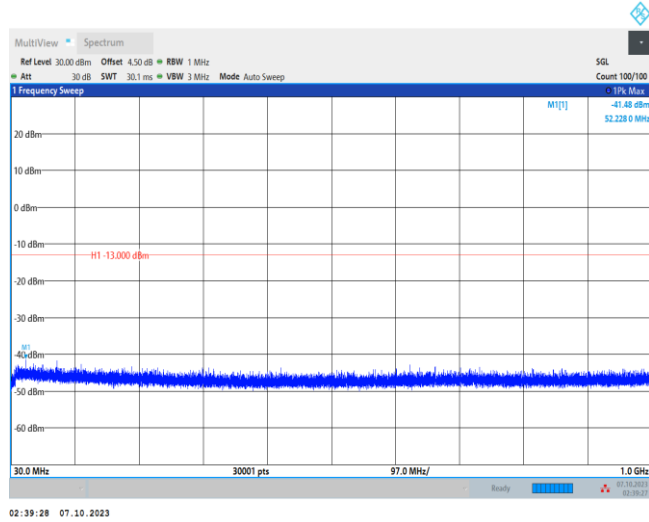
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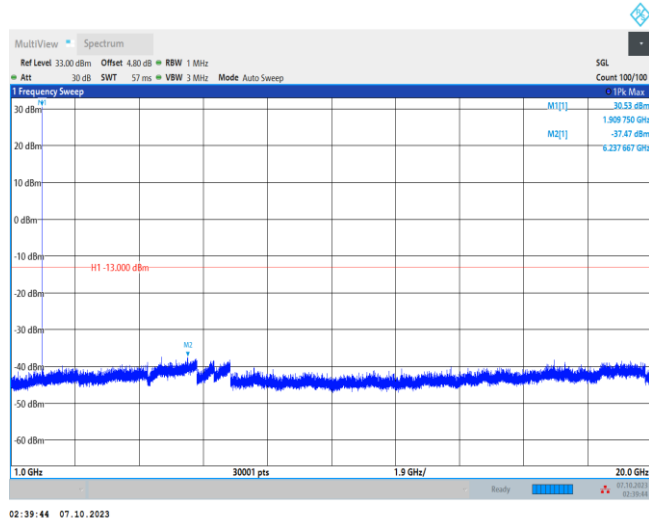
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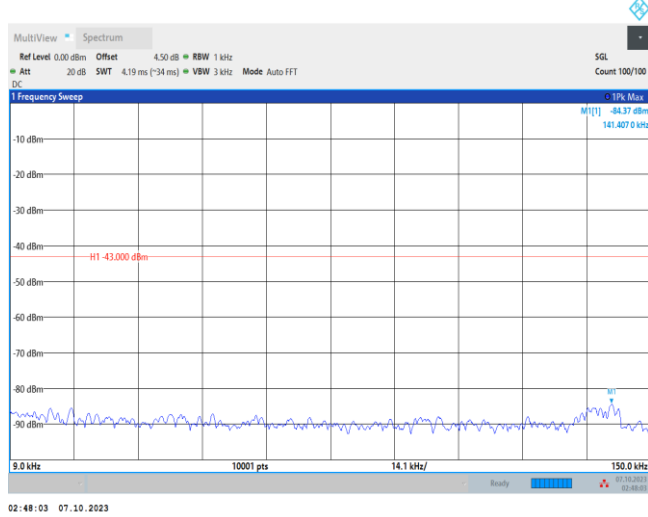


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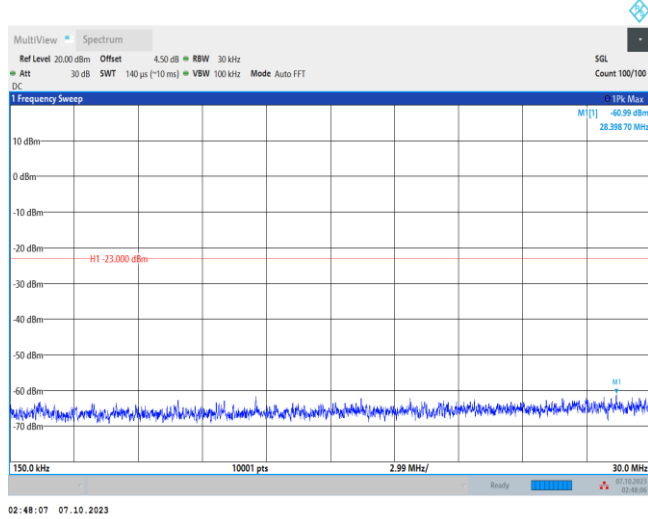
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EGPRS1900-512-0.009~0.15MHz



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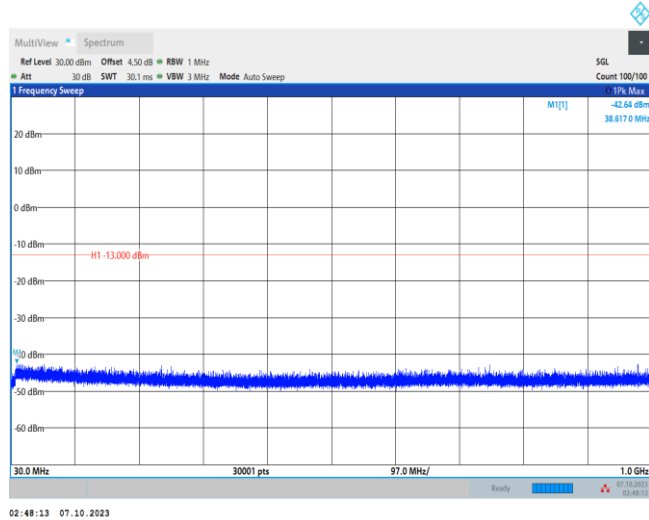


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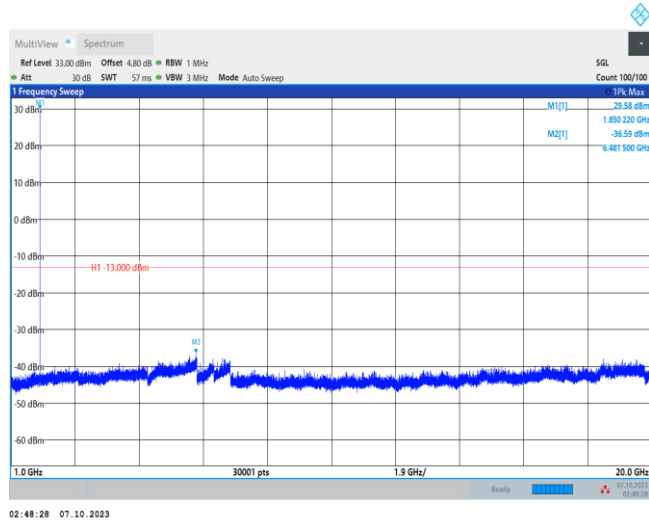
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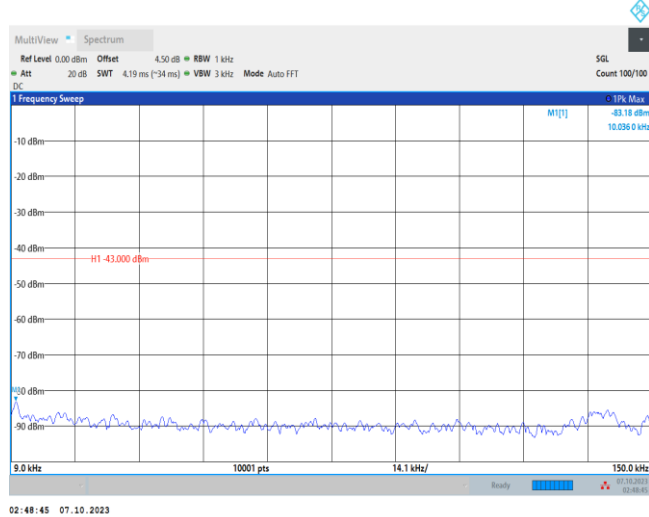
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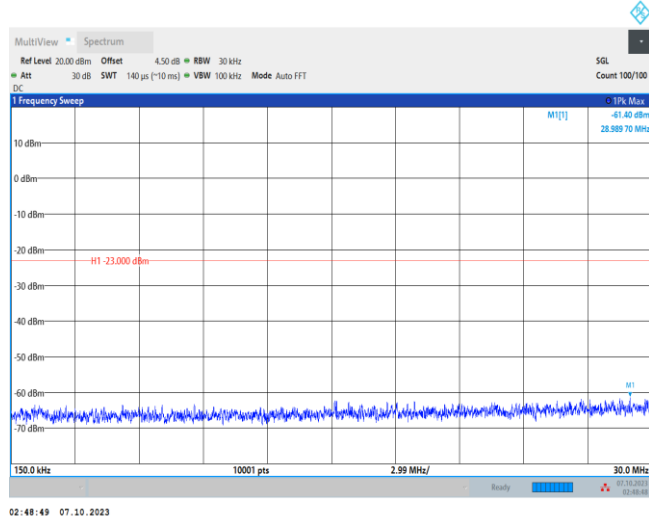
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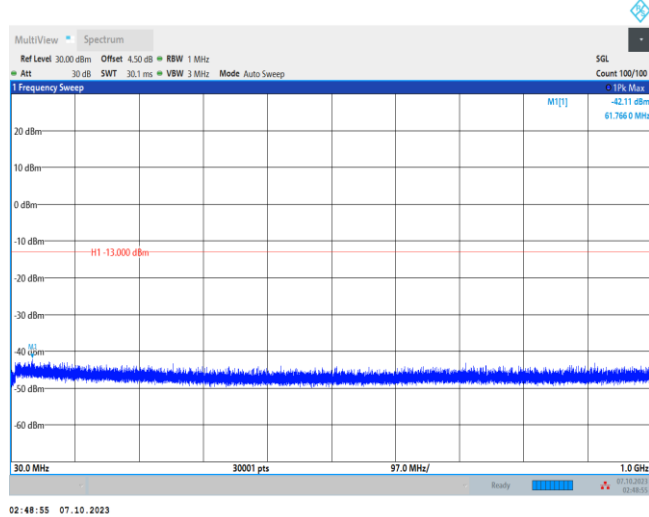


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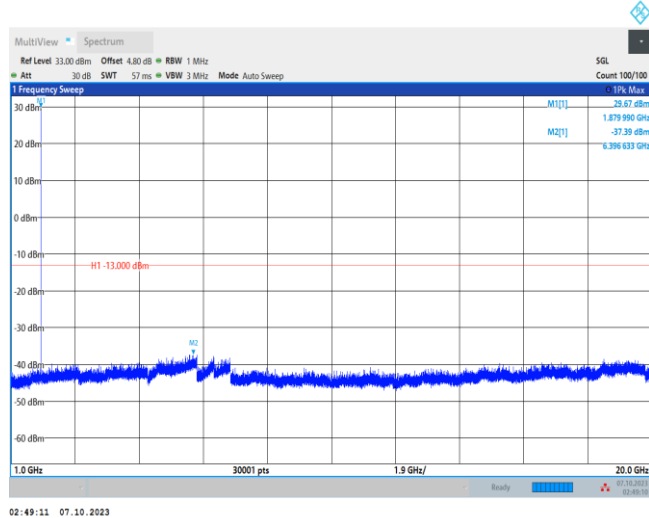
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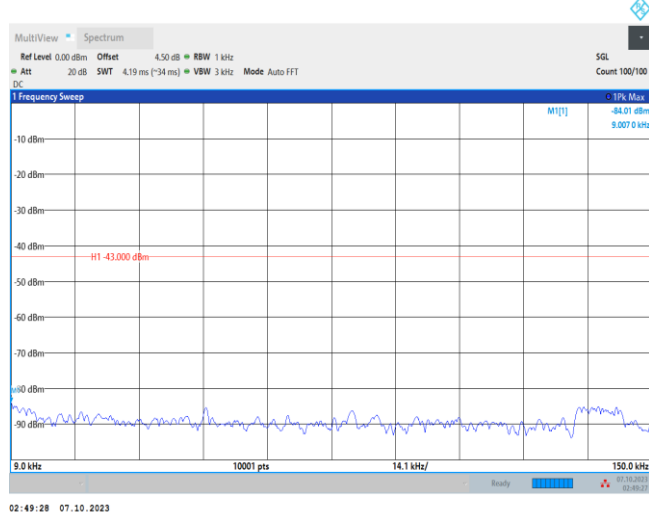


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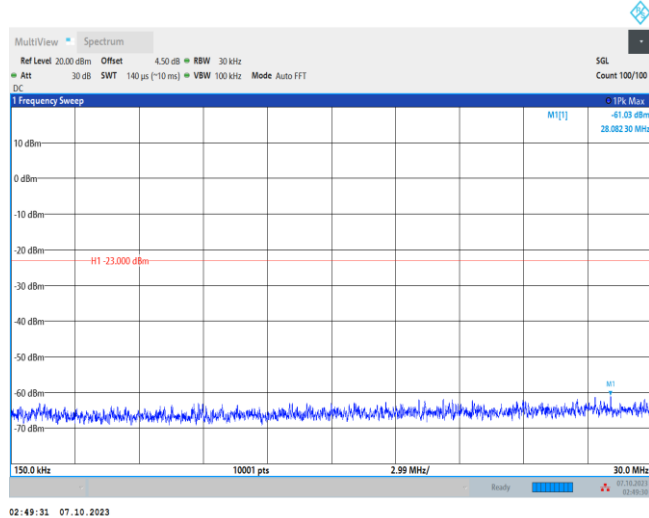
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EGPRS1900-810-0.009~0.15MHz



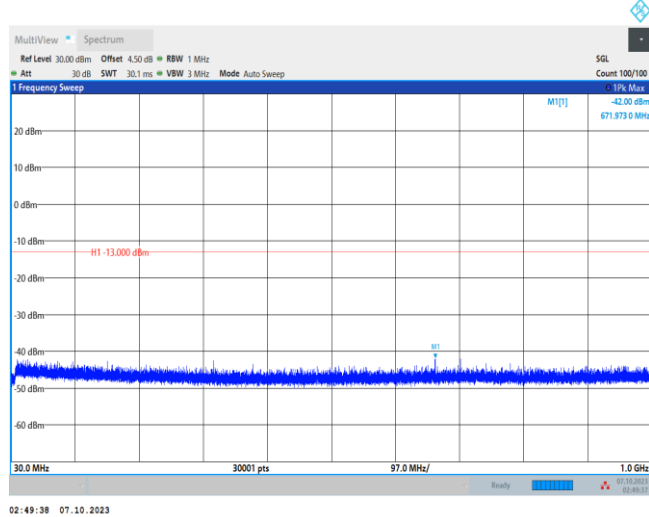
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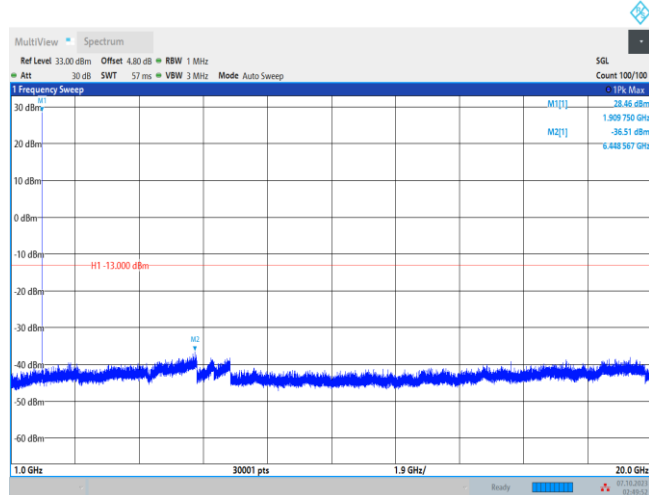
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EGPRS1900-810-1000~20000MHz



02:49:53 07.10.2023



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## Field Strength of Spurious Radiation

Test Band = GSM850\_ TM1

Test Channel = Low

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 1484            | 44.58          | -48.27      | 25.14     | -73.81      | -13.00      | 60.81       | Horizontal |
| 2         | 1897.1429       | 43.55          | -48.05      | 25.69     | -74.06      | -13.00      | 61.06       | Horizontal |
| 3         | 2402.2857       | 43.47          | -47.45      | 27.03     | -72.21      | -13.00      | 59.21       | Horizontal |
| 4         | 2878.2857       | 43.15          | -46.65      | 28.06     | -70.70      | -13.00      | 57.70       | Horizontal |
| 5         | 3654.2857       | 41.97          | -46.24      | 28.75     | -70.77      | -13.00      | 57.77       | Horizontal |
| 6         | 4622.2857       | 41.08          | -45.79      | 30.57     | -69.40      | -13.00      | 56.40       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 1392            | 44.17          | -48.01      | 25.10     | -74.00      | -13.00      | 61.00       | Vertical |
| 2         | 2087.4286       | 43.69          | -47.73      | 26.14     | -73.16      | -13.00      | 60.16       | Vertical |
| 3         | 2416            | 43.05          | -47.42      | 27.06     | -72.57      | -13.00      | 59.57       | Vertical |
| 4         | 3589.7143       | 42.33          | -46.36      | 28.69     | -70.60      | -13.00      | 57.60       | Vertical |
| 5         | 4827.4286       | 41.15          | -45.62      | 31.02     | -68.71      | -13.00      | 55.71       | Vertical |
| 6         | 6470.8571       | 40.00          | -44.68      | 34.21     | -65.73      | -13.00      | 52.73       | Vertical |



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**Test Band = GSM850\_TM1**  
**Test Channel = Mid**

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 1333.1429       | 43.85          | -48.09      | 25.13     | -74.36      | -13.00      | 61.36       | Horizontal |
| 2         | 1988            | 42.10          | -47.92      | 25.88     | -75.20      | -13.00      | 62.20       | Horizontal |
| 3         | 2265.1429       | 43.05          | -47.56      | 26.64     | -73.13      | -13.00      | 60.13       | Horizontal |
| 4         | 3305.1429       | 43.14          | -46.67      | 28.48     | -70.31      | -13.00      | 57.31       | Horizontal |
| 5         | 3972.5714       | 42.34          | -46.21      | 29.07     | -70.06      | -13.00      | 57.06       | Horizontal |
| 6         | 5505.1429       | 40.67          | -45.15      | 32.60     | -67.14      | -13.00      | 54.14       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 1430.8571       | 44.85          | -48.10      | 25.12     | -73.39      | -13.00      | 60.39       | Vertical |
| 2         | 1987.4286       | 43.49          | -47.92      | 25.87     | -73.81      | -13.00      | 60.81       | Vertical |
| 3         | 2393.7143       | 43.48          | -47.45      | 27.00     | -72.23      | -13.00      | 59.23       | Vertical |
| 4         | 3767.4286       | 41.60          | -46.16      | 28.87     | -70.95      | -13.00      | 57.95       | Vertical |
| 5         | 4149.1429       | 41.39          | -45.93      | 29.46     | -70.34      | -13.00      | 57.34       | Vertical |
| 6         | 5473.7143       | 40.53          | -45.10      | 32.54     | -67.29      | -13.00      | 54.29       | Vertical |



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**Test Band = GSM850\_TM1**  
**Test Channel = High**

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 1675.4286       | 42.67          | -48.19      | 25.31     | -75.47      | -13.00      | 62.47       | Horizontal |
| 2         | 2217.7143       | 43.42          | -47.65      | 26.51     | -72.98      | -13.00      | 59.98       | Horizontal |
| 3         | 2716.5714       | 43.67          | -47.03      | 27.73     | -70.89      | -13.00      | 57.89       | Horizontal |
| 4         | 3334.2857       | 42.97          | -46.63      | 28.50     | -70.42      | -13.00      | 57.42       | Horizontal |
| 5         | 4142.8571       | 41.50          | -45.93      | 29.44     | -70.24      | -13.00      | 57.24       | Horizontal |
| 6         | 5270.8571       | 40.40          | -45.20      | 32.05     | -68.01      | -13.00      | 55.01       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 1342.8571       | 44.58          | -48.07      | 25.13     | -73.63      | -13.00      | 60.63       | Vertical |
| 2         | 1796.5714       | 44.33          | -47.96      | 25.49     | -73.39      | -13.00      | 60.39       | Vertical |
| 3         | 2247.4286       | 44.04          | -47.59      | 26.59     | -72.22      | -13.00      | 59.22       | Vertical |
| 4         | 2821.1429       | 43.30          | -46.85      | 27.94     | -70.86      | -13.00      | 57.86       | Vertical |
| 5         | 4307.4286       | 41.68          | -45.79      | 29.84     | -69.53      | -13.00      | 56.53       | Vertical |
| 6         | 5421.1429       | 40.90          | -45.01      | 32.41     | -66.96      | -13.00      | 53.96       | Vertical |



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**Test Band = GSM1900\_ TM1**

**Test Channel = Low**

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 4269.75         | 41.89          | -45.61      | 29.75     | -69.23      | -13.00      | 56.23       | Horizontal |
| 2         | 6354.75         | 39.43          | -44.47      | 33.84     | -66.46      | -13.00      | 53.46       | Horizontal |
| 3         | 8027.25         | 36.74          | -42.08      | 36.79     | -63.81      | -13.00      | 50.81       | Horizontal |
| 4         | 10108.5         | 31.94          | -39.15      | 38.25     | -64.22      | -13.00      | 51.22       | Horizontal |
| 5         | 12086.25        | 27.44          | -37.38      | 38.83     | -66.37      | -13.00      | 53.37       | Horizontal |
| 6         | 14550.75        | 25.94          | -35.07      | 41.12     | -63.27      | -13.00      | 50.27       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 3764.25         | 41.29          | -45.77      | 28.86     | -70.88      | -13.00      | 57.88       | Vertical |
| 2         | 5325            | 39.81          | -45.14      | 32.18     | -68.41      | -13.00      | 55.41       | Vertical |
| 3         | 6288.75         | 39.03          | -44.56      | 33.62     | -67.17      | -13.00      | 54.17       | Vertical |
| 4         | 8043.75         | 36.55          | -41.92      | 36.78     | -63.85      | -13.00      | 50.85       | Vertical |
| 5         | 10112.25        | 32.16          | -39.17      | 38.26     | -64.01      | -13.00      | 51.01       | Vertical |
| 6         | 14355           | 26.35          | -35.41      | 41.04     | -63.28      | -13.00      | 50.28       | Vertical |



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**Test Band = GSM1900\_ TM1**

**Test Channel = Mid**

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 4315.5          | 40.73          | -45.58      | 29.86     | -70.26      | -13.00      | 57.26       | Horizontal |
| 2         | 6854.25         | 39.11          | -44.13      | 34.94     | -65.34      | -13.00      | 52.34       | Horizontal |
| 3         | 7825.5          | 37.78          | -42.44      | 36.73     | -63.19      | -13.00      | 50.19       | Horizontal |
| 4         | 9856.5          | 31.49          | -39.40      | 37.93     | -65.24      | -13.00      | 52.24       | Horizontal |
| 5         | 12222           | 27.86          | -37.47      | 38.87     | -66.01      | -13.00      | 53.01       | Horizontal |
| 6         | 14511.75        | 25.61          | -34.89      | 41.10     | -63.44      | -13.00      | 50.44       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 3942.75         | 41.46          | -46.18      | 29.04     | -70.93      | -13.00      | 57.93       | Vertical |
| 2         | 4593.75         | 40.62          | -45.67      | 30.51     | -69.81      | -13.00      | 56.81       | Vertical |
| 3         | 5376            | 39.97          | -45.25      | 32.30     | -68.24      | -13.00      | 55.24       | Vertical |
| 4         | 6941.25         | 39.07          | -43.87      | 35.09     | -64.97      | -13.00      | 51.97       | Vertical |
| 5         | 8634.75         | 35.89          | -41.46      | 36.48     | -64.34      | -13.00      | 51.34       | Vertical |
| 6         | 12215.25        | 27.72          | -37.48      | 38.86     | -66.15      | -13.00      | 53.15       | Vertical |



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**Test Band = GSM1900\_ TM1**  
**Test Channel = High**

| Data List |                 |                |             |           |             |             |             |            |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 3814.5          | 41.46          | -45.97      | 28.91     | -70.86      | -13.00      | 57.86       | Horizontal |
| 2         | 4433.25         | 41.17          | -45.78      | 30.14     | -69.73      | -13.00      | 56.73       | Horizontal |
| 3         | 5382            | 39.56          | -45.26      | 32.32     | -68.65      | -13.00      | 55.65       | Horizontal |
| 4         | 6492.75         | 40.26          | -44.60      | 34.28     | -65.32      | -13.00      | 52.32       | Horizontal |
| 5         | 8403.75         | 36.86          | -41.46      | 36.60     | -63.26      | -13.00      | 50.26       | Horizontal |
| 6         | 13608           | 25.33          | -36.09      | 40.19     | -65.82      | -13.00      | 52.82       | Horizontal |

| Data List |                 |                |             |           |             |             |             |          |
|-----------|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 3976.5          | 41.58          | -46.10      | 29.08     | -70.70      | -13.00      | 57.70       | Vertical |
| 2         | 4936.5          | 40.91          | -45.57      | 31.26     | -68.66      | -13.00      | 55.66       | Vertical |
| 3         | 6506.25         | 39.70          | -44.59      | 34.31     | -65.84      | -13.00      | 52.84       | Vertical |
| 4         | 10284.75        | 30.43          | -39.15      | 38.34     | -65.64      | -13.00      | 52.64       | Vertical |
| 5         | 13386.75        | 25.92          | -36.39      | 39.80     | -65.93      | -13.00      | 52.93       | Vertical |
| 6         | 16476.75        | 26.71          | -33.99      | 40.68     | -61.86      | -13.00      | 48.86       | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

## Frequency Stability

### Test Result

| Voltage  |         |               |                  |                |                 |             |         |
|----------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band     | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850   | 190     | VL            | NT               | 1.71           | 0.002044        | ±2.5        | PASS    |
| GSM850   | 190     | VN            | NT               | -3.45          | -0.004124       | ±2.5        | PASS    |
| GSM850   | 190     | VH            | NT               | 2.23           | 0.002666        | ±2.5        | PASS    |
| EGPRS850 | 190     | VL            | NT               | 26.22          | 0.031341        | ±2.5        | PASS    |
| EGPRS850 | 190     | VN            | NT               | 27.41          | 0.032764        | ±2.5        | PASS    |
| EGPRS850 | 190     | VH            | NT               | 26.22          | 0.031341        | ±2.5        | PASS    |

| Band      | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-----------|---------|---------------|------------------|----------------|-----------------|---------|
| GSM1900   | 661     | VL            | NT               | 21.37          | 0.011367        | PASS    |
| GSM1900   | 661     | VN            | NT               | 25.67          | 0.013654        | PASS    |
| GSM1900   | 661     | VH            | NT               | 18.18          | 0.009670        | PASS    |
| EGPRS1900 | 661     | VL            | NT               | 46.78          | 0.024883        | PASS    |
| EGPRS1900 | 661     | VN            | NT               | 43.33          | 0.023048        | PASS    |
| EGPRS1900 | 661     | VH            | NT               | 45.78          | 0.024351        | PASS    |



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| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| GSM850      | 190     | NV            | -30              | 0.81           | 0.000968        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | -20              | 5.20           | 0.006216        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | -10              | -1.16          | -0.001387       | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 0                | 3.26           | 0.003897        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 10               | 3.55           | 0.004243        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 20               | 4.20           | 0.005020        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 30               | 2.39           | 0.002857        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 40               | 2.49           | 0.002976        | ±2.5        | PASS    |
| GSM850      | 190     | NV            | 50               | 1.49           | 0.001781        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | -30              | 25.15          | 0.030062        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | -20              | 27.18          | 0.032489        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | -10              | 23.15          | 0.027672        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 0                | 21.70          | 0.025938        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 10               | 25.34          | 0.030289        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 20               | 26.44          | 0.031604        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 30               | 23.99          | 0.028676        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 40               | 25.73          | 0.030755        | ±2.5        | PASS    |
| EGPRS850    | 190     | NV            | 50               | 24.60          | 0.029405        | ±2.5        | PASS    |



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| Band      | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-----------|---------|---------------|------------------|----------------|-----------------|---------|
| GSM1900   | 661     | NV            | -30              | 21.47          | 0.011420        | PASS    |
| GSM1900   | 661     | NV            | -20              | 21.76          | 0.011574        | PASS    |
| GSM1900   | 661     | NV            | -10              | 19.05          | 0.010133        | PASS    |
| GSM1900   | 661     | NV            | 0                | 22.05          | 0.011729        | PASS    |
| GSM1900   | 661     | NV            | 10               | 24.47          | 0.013016        | PASS    |
| GSM1900   | 661     | NV            | 20               | 22.54          | 0.011989        | PASS    |
| GSM1900   | 661     | NV            | 30               | 22.79          | 0.012122        | PASS    |
| GSM1900   | 661     | NV            | 40               | 21.89          | 0.011644        | PASS    |
| GSM1900   | 661     | NV            | 50               | 26.73          | 0.014218        | PASS    |
| EGPRS1900 | 661     | NV            | -30              | 44.30          | 0.023564        | PASS    |
| EGPRS1900 | 661     | NV            | -20              | 44.91          | 0.023888        | PASS    |
| EGPRS1900 | 661     | NV            | -10              | 46.49          | 0.024729        | PASS    |
| EGPRS1900 | 661     | NV            | 0                | 42.13          | 0.022410        | PASS    |
| EGPRS1900 | 661     | NV            | 10               | 42.52          | 0.022617        | PASS    |
| EGPRS1900 | 661     | NV            | 20               | 41.42          | 0.022032        | PASS    |
| EGPRS1900 | 661     | NV            | 30               | 44.62          | 0.023734        | PASS    |
| EGPRS1900 | 661     | NV            | 40               | 44.04          | 0.023426        | PASS    |
| EGPRS1900 | 661     | NV            | 50               | 44.49          | 0.023665        | PASS    |

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