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*Out-of-band emissions* .....33

## Conducted output power

| Band               | Channel | Frequency<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | Gain<br>(dBd) | ERP<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) | Verdict |
|--------------------|---------|--------------------|----------------|---------------|---------------|--------------|---------------|---------------------|---------|
| EGPRS850 1<br>Slot | 128     | 824.2              | 34.07          | 0.07          | -7.35         | 26.72        | --            | 38.45               | PASS    |
| EGPRS850 1<br>Slot | 190     | 836.6              | 34.74          | 0.07          | -7.35         | 27.39        | --            | 38.45               | PASS    |
| EGPRS850 1<br>Slot | 251     | 848.8              | 34.95          | 0.07          | -7.35         | <b>27.6</b>  | --            | 38.45               | PASS    |
| EGPRS850 2<br>Slot | 128     | 824.2              | 33.04          | 0.07          | -7.35         | 25.69        | --            | 38.45               | PASS    |
| EGPRS850 2<br>Slot | 190     | 836.6              | 33.78          | 0.07          | -7.35         | 26.43        | --            | 38.45               | PASS    |
| EGPRS850 2<br>Slot | 251     | 848.8              | 34.01          | 0.07          | -7.35         | 26.66        | --            | 38.45               | PASS    |
| EGPRS850 3<br>Slot | 128     | 824.2              | 30.91          | 0.07          | -7.35         | 23.56        | --            | 38.45               | PASS    |
| EGPRS850 3<br>Slot | 190     | 836.6              | 31.63          | 0.07          | -7.35         | 24.28        | --            | 38.45               | PASS    |
| EGPRS850 3<br>Slot | 251     | 848.8              | 31.83          | 0.07          | -7.35         | 24.48        | --            | 38.45               | PASS    |
| EGPRS850 4<br>Slot | 128     | 824.2              | 29.56          | 0.07          | -7.35         | 22.21        | --            | 38.45               | PASS    |
| EGPRS850 4<br>Slot | 190     | 836.6              | 30.43          | 0.07          | -7.35         | 23.08        | --            | 38.45               | PASS    |
| EGPRS850 4<br>Slot | 251     | 848.8              | 30.55          | 0.07          | -7.35         | 23.2         | --            | 38.45               | PASS    |
| GPRS850 1 Slot     | 128     | 824.2              | 33.94          | 0.07          | -7.35         | 26.59        | --            | 38.45               | PASS    |
| GPRS850 1 Slot     | 190     | 836.6              | 34.6           | 0.07          | -7.35         | 27.25        | --            | 38.45               | PASS    |
| GPRS850 1 Slot     | 251     | 848.8              | 34.75          | 0.07          | -7.35         | 27.4         | --            | 38.45               | PASS    |
| GPRS850 2 Slot     | 128     | 824.2              | 32.88          | 0.07          | -7.35         | 25.53        | --            | 38.45               | PASS    |
| GPRS850 2 Slot     | 190     | 836.6              | 33.64          | 0.07          | -7.35         | 26.29        | --            | 38.45               | PASS    |
| GPRS850 2 Slot     | 251     | 848.8              | 33.84          | 0.07          | -7.35         | 26.49        | --            | 38.45               | PASS    |
| GPRS850 3 Slot     | 128     | 824.2              | 30.75          | 0.07          | -7.35         | 23.4         | --            | 38.45               | PASS    |
| GPRS850 3 Slot     | 190     | 836.6              | 31.48          | 0.07          | -7.35         | 24.13        | --            | 38.45               | PASS    |
| GPRS850 3 Slot     | 251     | 848.8              | 31.66          | 0.07          | -7.35         | 24.31        | --            | 38.45               | PASS    |
| GPRS850 4 Slot     | 128     | 824.2              | 29.4           | 0.07          | -7.35         | 22.05        | --            | 38.45               | PASS    |
| GPRS850 4 Slot     | 190     | 836.6              | 30.21          | 0.07          | -7.35         | 22.86        | --            | 38.45               | PASS    |
| GPRS850 4 Slot     | 251     | 848.8              | 30.38          | 0.07          | -7.35         | 23.03        | --            | 38.45               | PASS    |
| GSM850             | 128     | 824.2              | 33.98          | 0.07          | -7.35         | 26.63        | --            | 38.45               | PASS    |
| GSM850             | 190     | 836.6              | 34.63          | 0.07          | -7.35         | 27.28        | --            | 38.45               | PASS    |
| GSM850             | 251     | 848.8              | 34.81          | 0.07          | -7.35         | <b>27.46</b> | --            | 38.45               | PASS    |

|                     |     |        |       |       |    |    |              |       |      |
|---------------------|-----|--------|-------|-------|----|----|--------------|-------|------|
| EGPRS1900 1<br>Slot | 512 | 1850.2 | 28    | -1.51 | -- | -- | <b>26.49</b> | 33.01 | PASS |
| EGPRS1900 1<br>Slot | 661 | 1880   | 28    | -1.51 | -- | -- | <b>26.49</b> | 33.01 | PASS |
| EGPRS1900 1<br>Slot | 810 | 1909.8 | 27.93 | -1.51 | -- | -- | 26.42        | 33.01 | PASS |
| EGPRS1900 2<br>Slot | 512 | 1850.2 | 27.79 | -1.51 | -- | -- | 26.28        | 33.01 | PASS |
| EGPRS1900 2<br>Slot | 661 | 1880   | 27.76 | -1.51 | -- | -- | 26.25        | 33.01 | PASS |
| EGPRS1900 2<br>Slot | 810 | 1909.8 | 27.79 | -1.51 | -- | -- | 26.28        | 33.01 | PASS |
| EGPRS1900 3<br>Slot | 512 | 1850.2 | 27.09 | -1.51 | -- | -- | 25.58        | 33.01 | PASS |
| EGPRS1900 3<br>Slot | 661 | 1880   | 27.24 | -1.51 | -- | -- | 25.73        | 33.01 | PASS |
| EGPRS1900 3<br>Slot | 810 | 1909.8 | 26.95 | -1.51 | -- | -- | 25.44        | 33.01 | PASS |
| EGPRS1900 4<br>Slot | 512 | 1850.2 | 26.39 | -1.51 | -- | -- | 24.88        | 33.01 | PASS |
| EGPRS1900 4<br>Slot | 661 | 1880   | 26.19 | -1.51 | -- | -- | 24.68        | 33.01 | PASS |
| EGPRS1900 4<br>Slot | 810 | 1909.8 | 26.5  | -1.51 | -- | -- | 24.99        | 33.01 | PASS |
| GPRS1900 1<br>Slot  | 512 | 1850.2 | 31.41 | -1.51 | -- | -- | 29.9         | 33.01 | PASS |
| GPRS1900 1<br>Slot  | 661 | 1880   | 31.64 | -1.51 | -- | -- | 30.13        | 33.01 | PASS |
| GPRS1900 1<br>Slot  | 810 | 1909.8 | 31.73 | -1.51 | -- | -- | 30.22        | 33.01 | PASS |
| GPRS1900 2<br>Slot  | 512 | 1850.2 | 30.44 | -1.51 | -- | -- | 28.93        | 33.01 | PASS |
| GPRS1900 2<br>Slot  | 661 | 1880   | 30.72 | -1.51 | -- | -- | 29.21        | 33.01 | PASS |
| GPRS1900 2<br>Slot  | 810 | 1909.8 | 30.83 | -1.51 | -- | -- | 29.32        | 33.01 | PASS |
| GPRS1900 3<br>Slot  | 512 | 1850.2 | 28.19 | -1.51 | -- | -- | 26.68        | 33.01 | PASS |
| GPRS1900 3<br>Slot  | 661 | 1880   | 28.5  | -1.51 | -- | -- | 26.99        | 33.01 | PASS |
| GPRS1900 3<br>Slot  | 810 | 1909.8 | 28.69 | -1.51 | -- | -- | 27.18        | 33.01 | PASS |
| GPRS1900 4<br>Slot  | 512 | 1850.2 | 26.89 | -1.51 | -- | -- | 25.38        | 33.01 | PASS |

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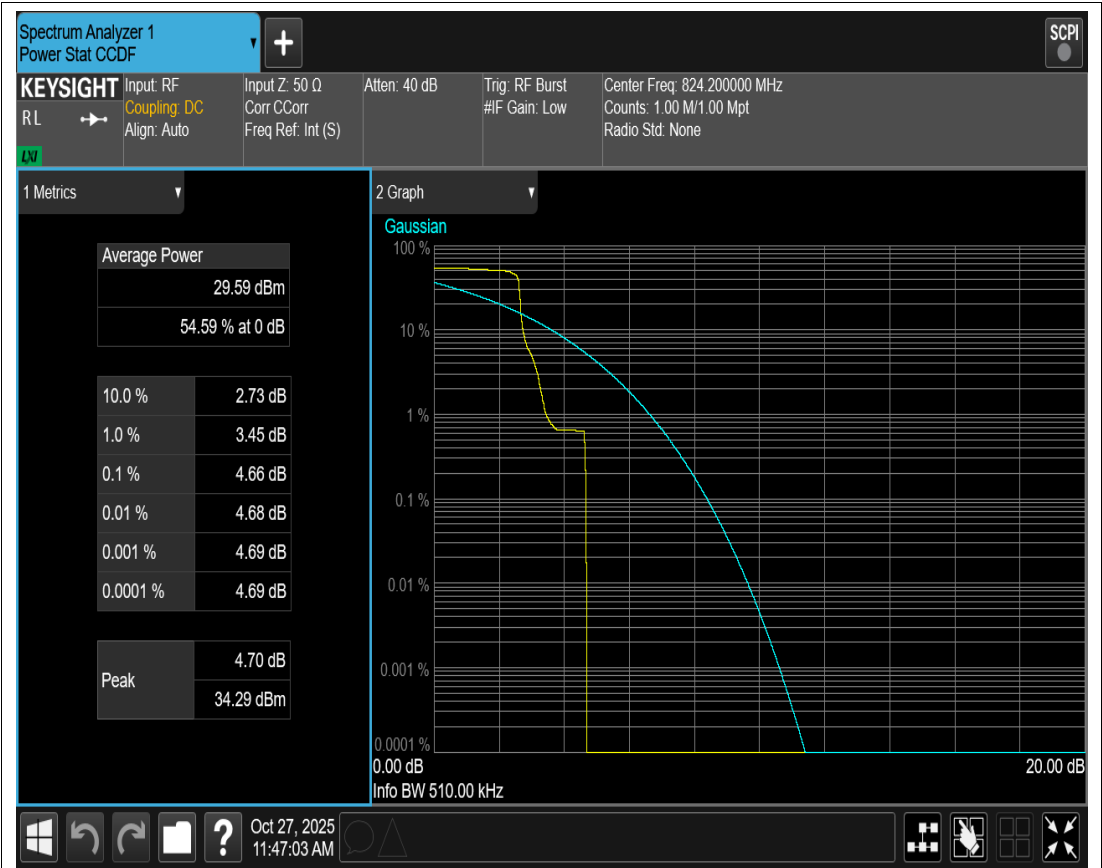
|                    |     |        |       |       |    |    |              |       |      |
|--------------------|-----|--------|-------|-------|----|----|--------------|-------|------|
| GPRS1900 4<br>Slot | 661 | 1880   | 27.2  | -1.51 | -- | -- | 25.69        | 33.01 | PASS |
| GPRS1900 4<br>Slot | 810 | 1909.8 | 27.39 | -1.51 | -- | -- | 25.88        | 33.01 | PASS |
| GSM1900            | 512 | 1850.2 | 31.48 | -1.51 | -- | -- | 29.97        | 33.01 | PASS |
| GSM1900            | 661 | 1880   | 31.28 | -1.51 | -- | -- | 29.77        | 33.01 | PASS |
| GSM1900            | 810 | 1909.8 | 31.79 | -1.51 | -- | -- | <b>30.28</b> | 33.01 | PASS |

## Frequency stability

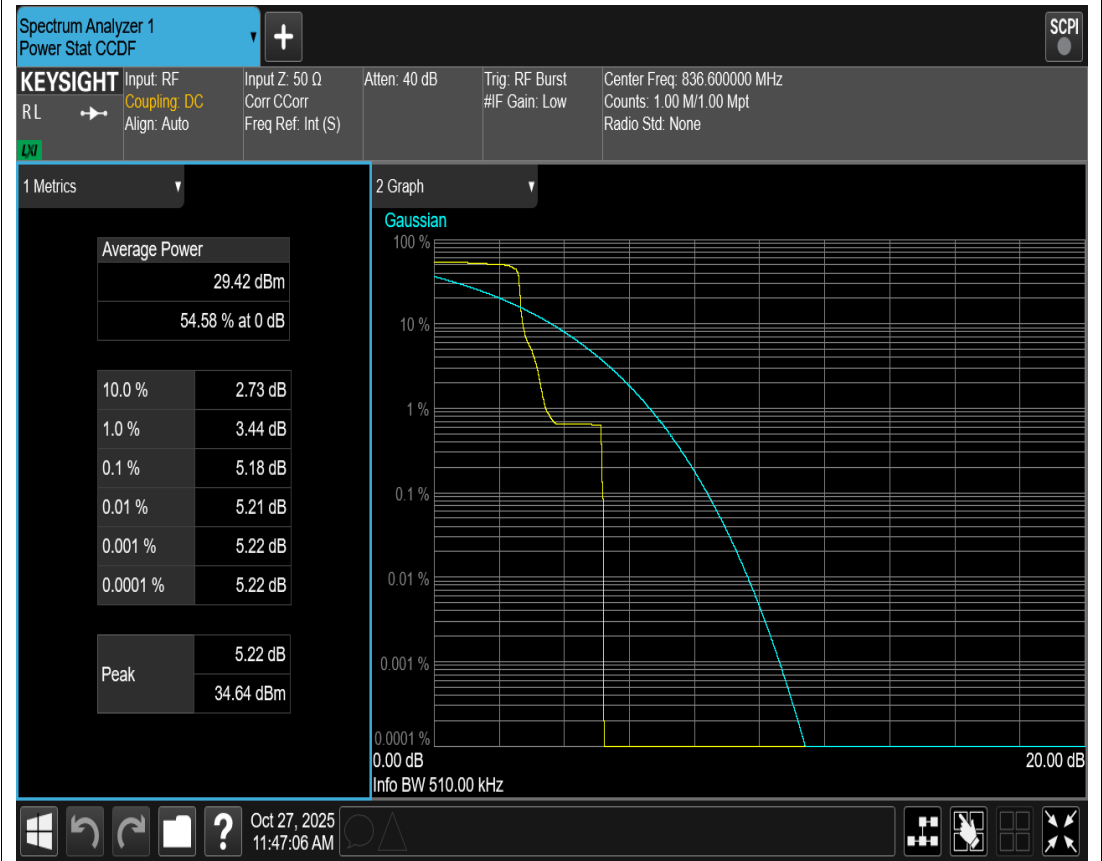
| <i>Band</i> | <i>Channel</i> | <i>Frequency (MHz)</i> | <i>Result(Hz)</i> | <i>Result (ppm)</i> | <i>Low Limit (ppm)</i> | <i>high Limit (ppm)</i> | <i>Verdict</i> |
|-------------|----------------|------------------------|-------------------|---------------------|------------------------|-------------------------|----------------|
| EGPRS850    | 128            | 824.2                  | 1.614292          | 0.0020              | -2.500                 | 2.5                     | PASS           |
| EGPRS850    | 190            | 836.6                  | 3.293157          | 0.0039              | -2.500                 | 2.5                     | PASS           |
| EGPRS850    | 251            | 848.8                  | 0.9685755         | 0.0011              | -2.500                 | 2.5                     | PASS           |
| GPRS850     | 128            | 824.2                  | -0.3228585        | -0.0004             | -2.500                 | 2.5                     | PASS           |
| GPRS850     | 190            | 836.6                  | -0.7425745        | -0.0009             | -2.500                 | 2.5                     | PASS           |
| GPRS850     | 251            | 848.8                  | -1.485149         | -0.0017             | -2.500                 | 2.5                     | PASS           |
| GSM850      | 128            | 824.2                  | 1.10              | 0.0013              | -2.5                   | 2.5                     | PASS           |
| GSM850      | 190            | 836.6                  | 3.62              | 0.0043              | -2.5                   | 2.5                     | PASS           |
| GSM850      | 251            | 848.8                  | 2.00              | 0.0024              | -2.5                   | 2.5                     | PASS           |
| EGPRS1900   | 512            | 1850.2                 | -2.260009         | -0.0012             | -2.500                 | 2.5                     | PASS           |
| EGPRS1900   | 661            | 1880                   | 999               | 0.5314              | -2.500                 | 2.5                     | PASS           |
| EGPRS1900   | 810            | 1909.8                 | -5.52088          | -0.0029             | -2.500                 | 2.5                     | PASS           |
| GPRS1900    | 512            | 1850.2                 | -0.5811453        | -0.0003             | -2.500                 | 2.5                     | PASS           |
| GPRS1900    | 661            | 1880                   | -2.48601          | -0.0013             | -2.500                 | 2.5                     | PASS           |
| GPRS1900    | 810            | 1909.8                 | -3.842016         | -0.0020             | -2.500                 | 2.5                     | PASS           |
| GSM1900     | 512            | 1850.2                 | -0.71             | -0.0004             | -2.5                   | 2.5                     | PASS           |
| GSM1900     | 661            | 1880                   | -5.81             | -0.0031             | -2.5                   | 2.5                     | PASS           |
| GSM1900     | 810            | 1909.8                 | -0.90             | -0.0005             | -2.5                   | 2.5                     | PASS           |

## Peak-to-Average Ratio

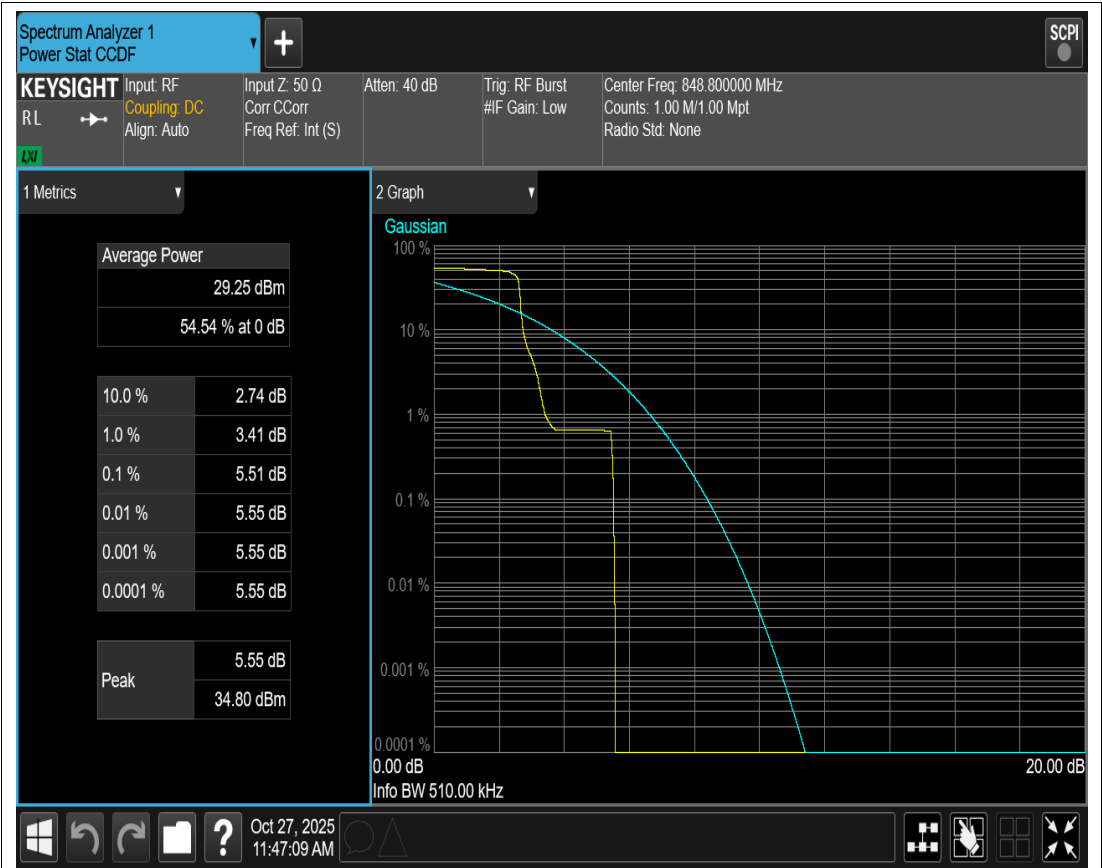
| <i>Band</i> | <i>Channel</i> | <i>Frequency (MHz)</i> | <i>Result (dB)</i> | <i>high Limit (dB)</i> | <i>Verdict</i> |
|-------------|----------------|------------------------|--------------------|------------------------|----------------|
| EGPRS850    | 128            | 824.2                  | 4.664254967        | 13.00                  | PASS           |
| EGPRS850    | 190            | 836.6                  | 5.184415094        | 13.00                  | PASS           |
| EGPRS850    | 251            | 848.8                  | 5.51255144         | 13.00                  | PASS           |
| GPRS850     | 128            | 824.2                  | 2.669758506        | 13.00                  | PASS           |
| GPRS850     | 190            | 836.6                  | 2.698435727        | 13.00                  | PASS           |
| GPRS850     | 251            | 848.8                  | 2.719415292        | 13.00                  | PASS           |
| GSM850      | 128            | 824.2                  | 2.64               | 13                     | PASS           |
| GSM850      | 190            | 836.6                  | 2.66               | 13                     | PASS           |
| GSM850      | 251            | 848.8                  | 2.68               | 13                     | PASS           |
| EGPRS1900   | 512            | 1850.2                 | 6.060960699        | 13.00                  | PASS           |
| EGPRS1900   | 661            | 1880                   | 5.996918519        | 13.00                  | PASS           |
| EGPRS1900   | 810            | 1909.8                 | 6.313743409        | 13.00                  | PASS           |
| GPRS1900    | 512            | 1850.2                 | 2.706835303        | 13.00                  | PASS           |
| GPRS1900    | 661            | 1880                   | 2.689074074        | 13.00                  | PASS           |
| GPRS1900    | 810            | 1909.8                 | 2.701485062        | 13.00                  | PASS           |
| GSM1900     | 512            | 1850.2                 | 2.67               | 13                     | PASS           |
| GSM1900     | 661            | 1880                   | 2.66               | 13                     | PASS           |
| GSM1900     | 810            | 1909.8                 | 2.67               | 13                     | PASS           |



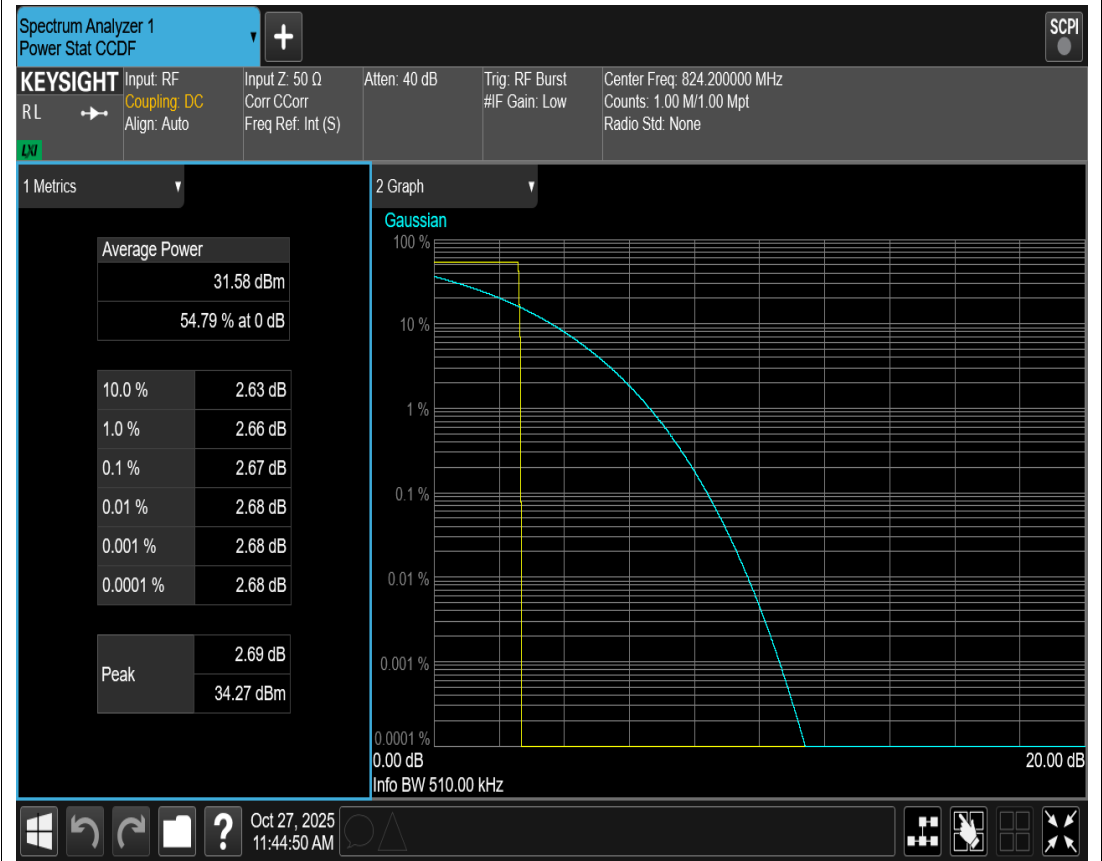
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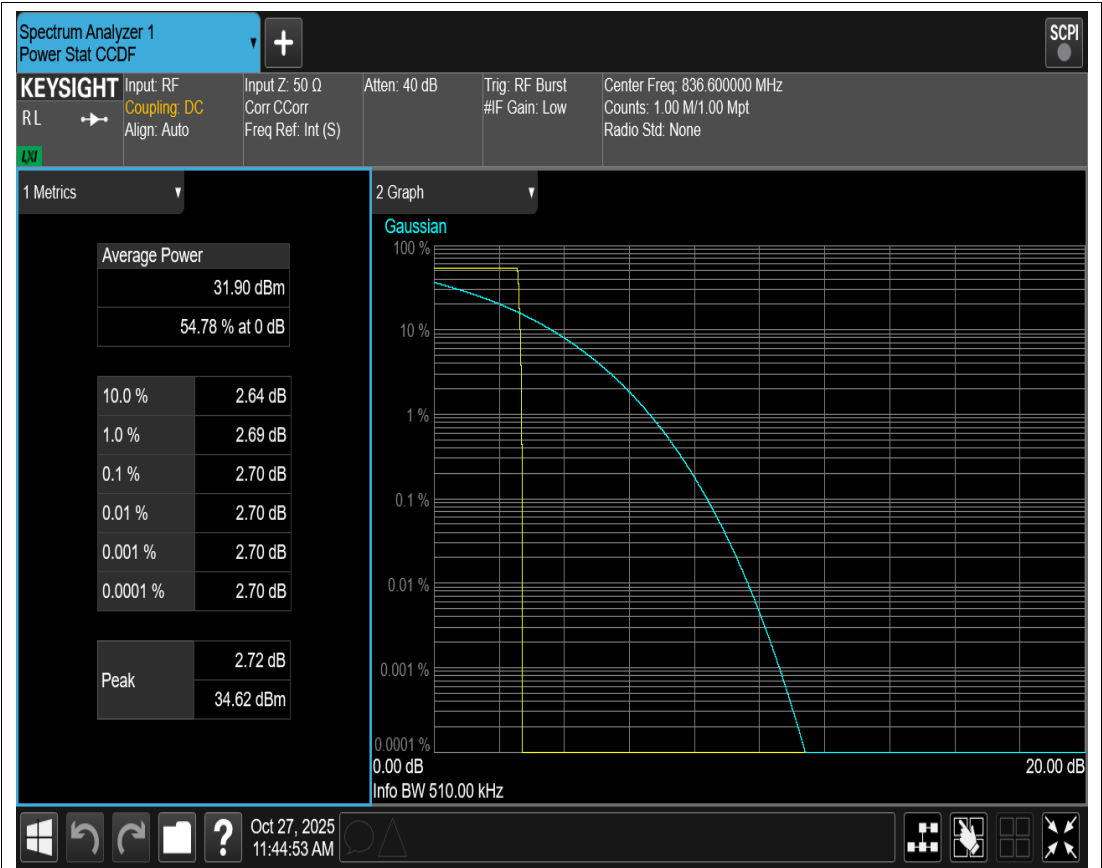
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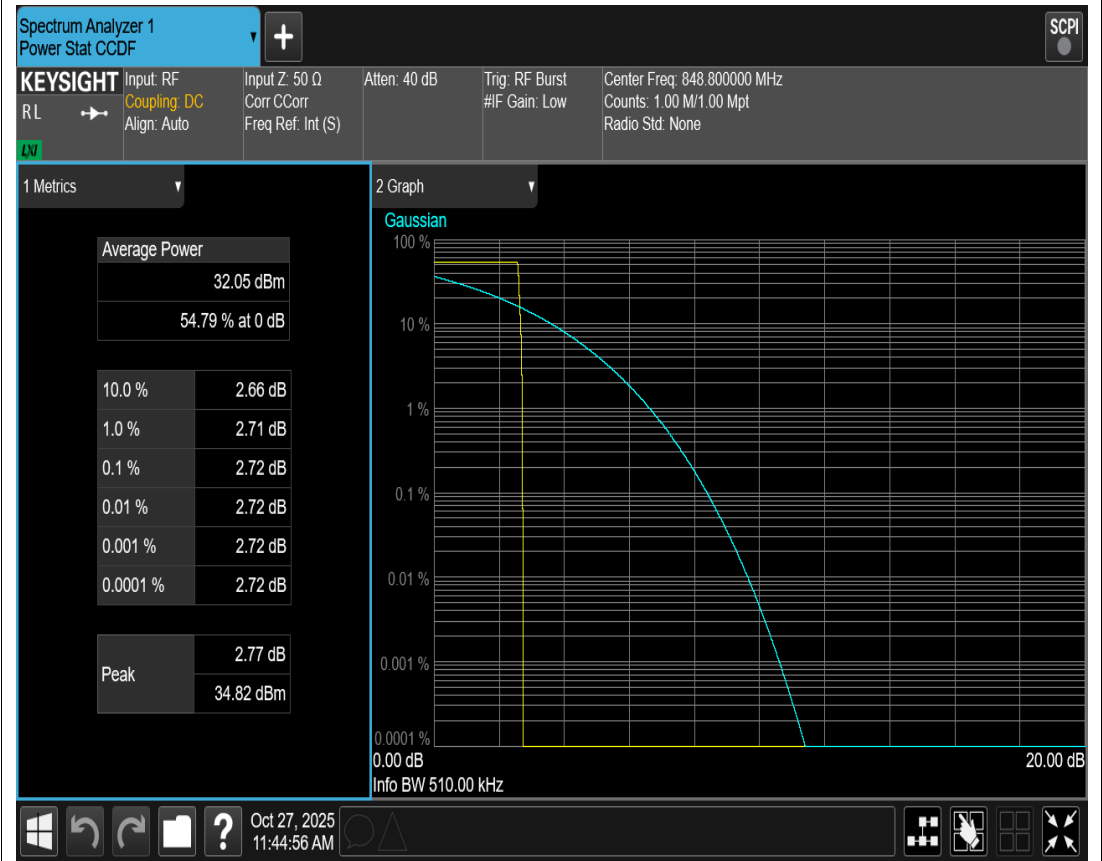
EGPRS850 Channel=251



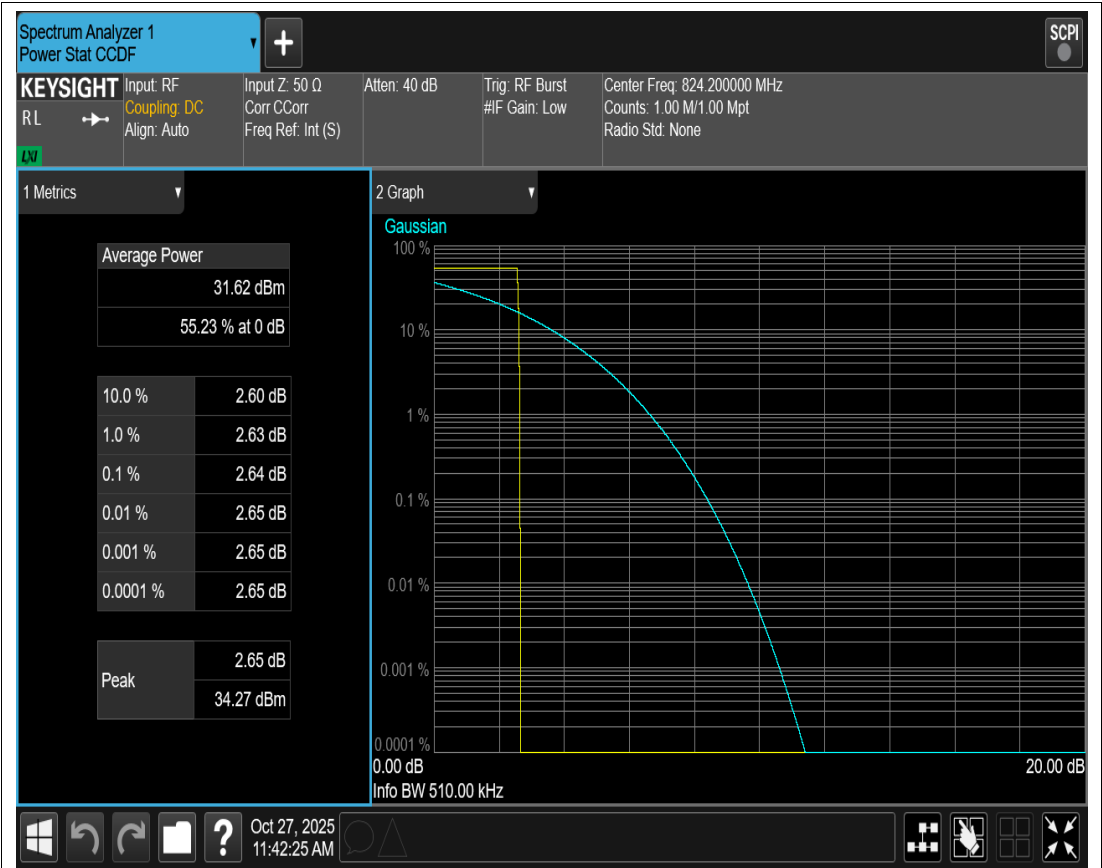
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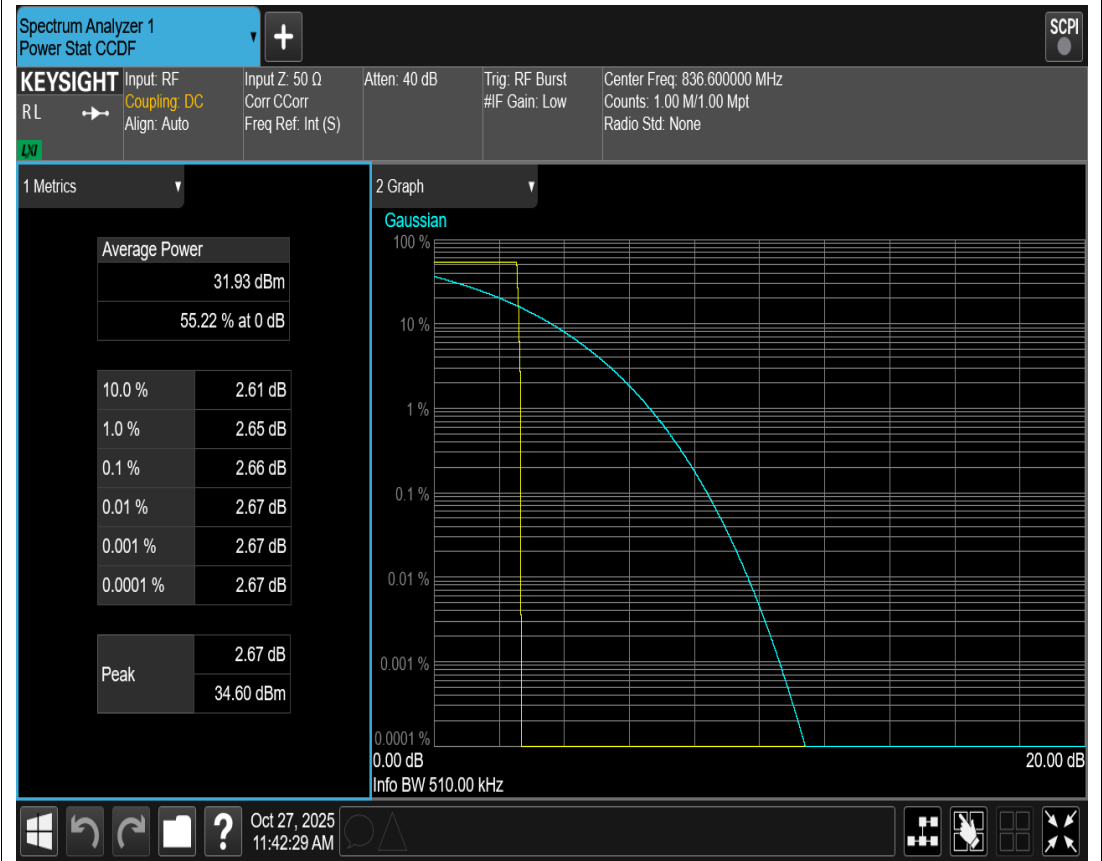
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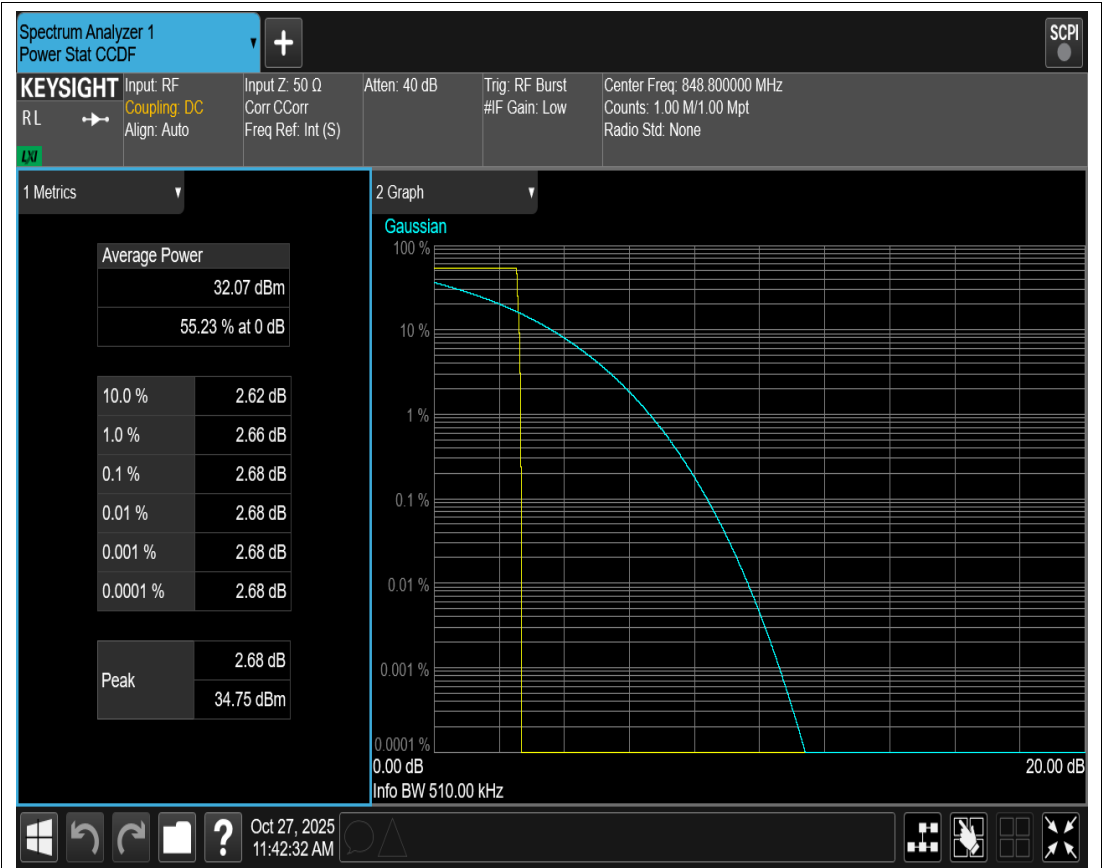
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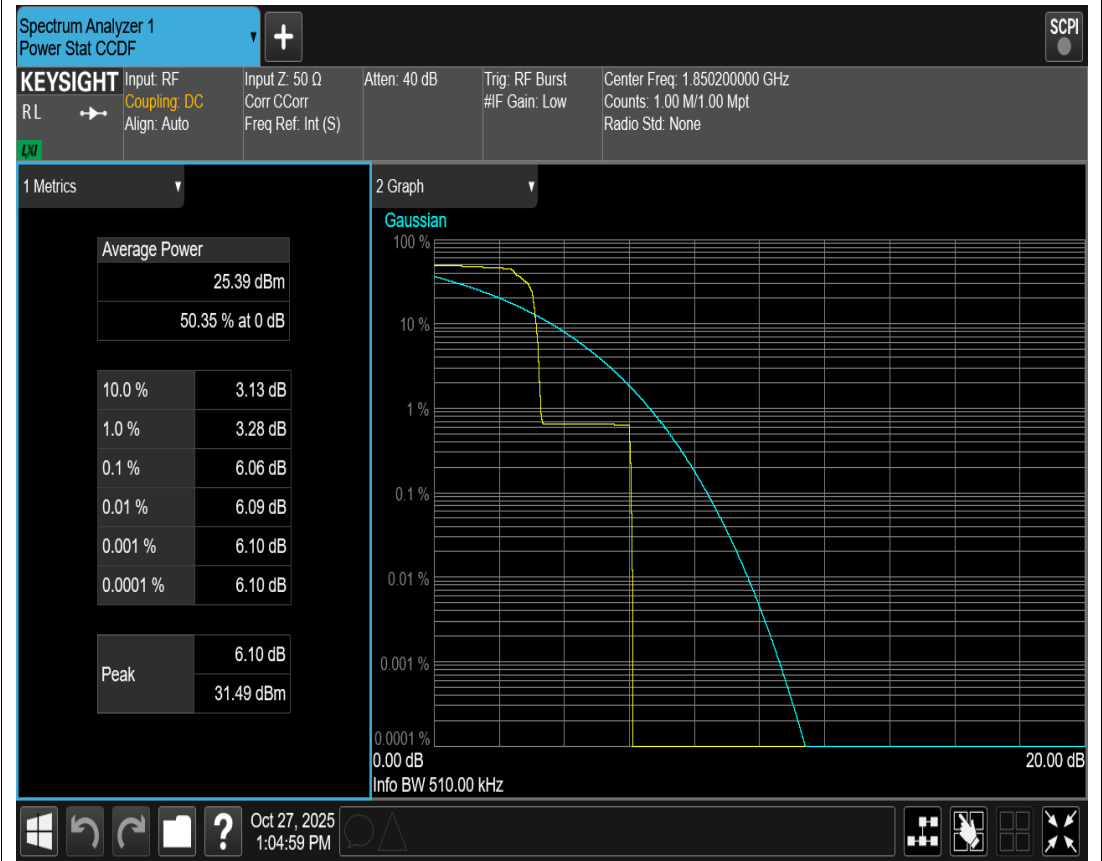
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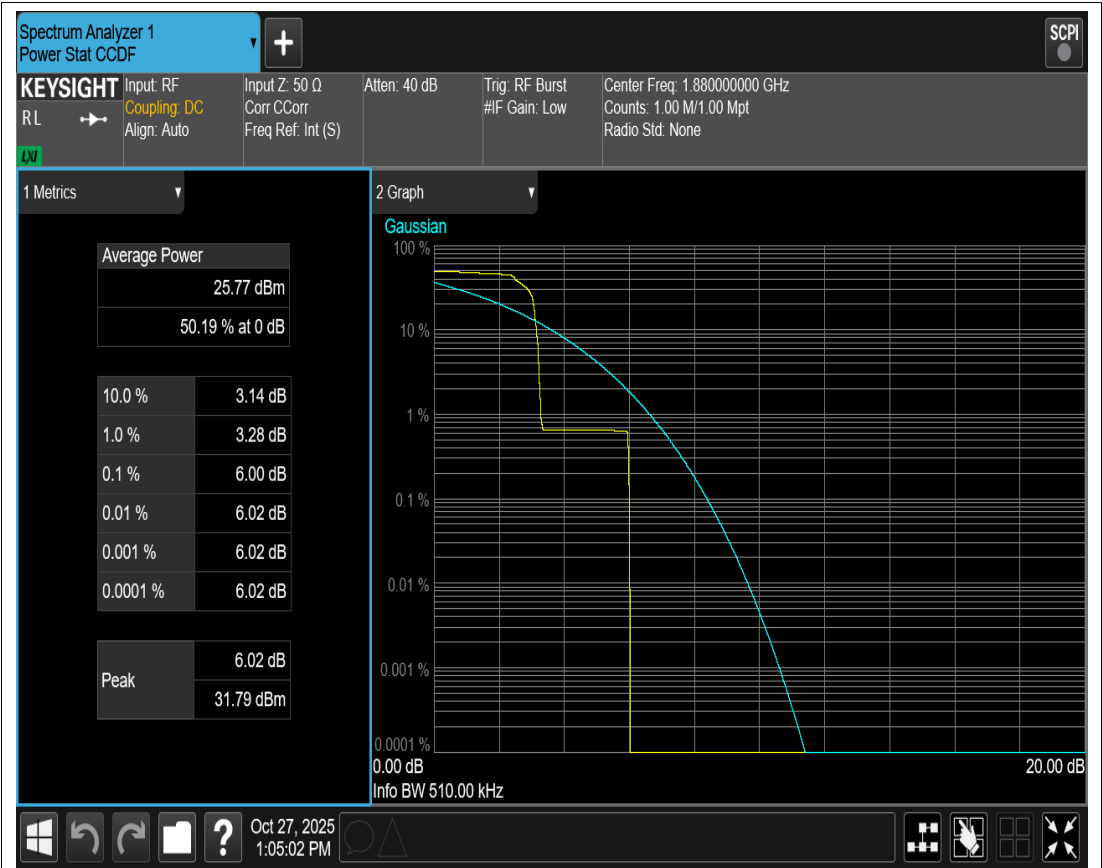
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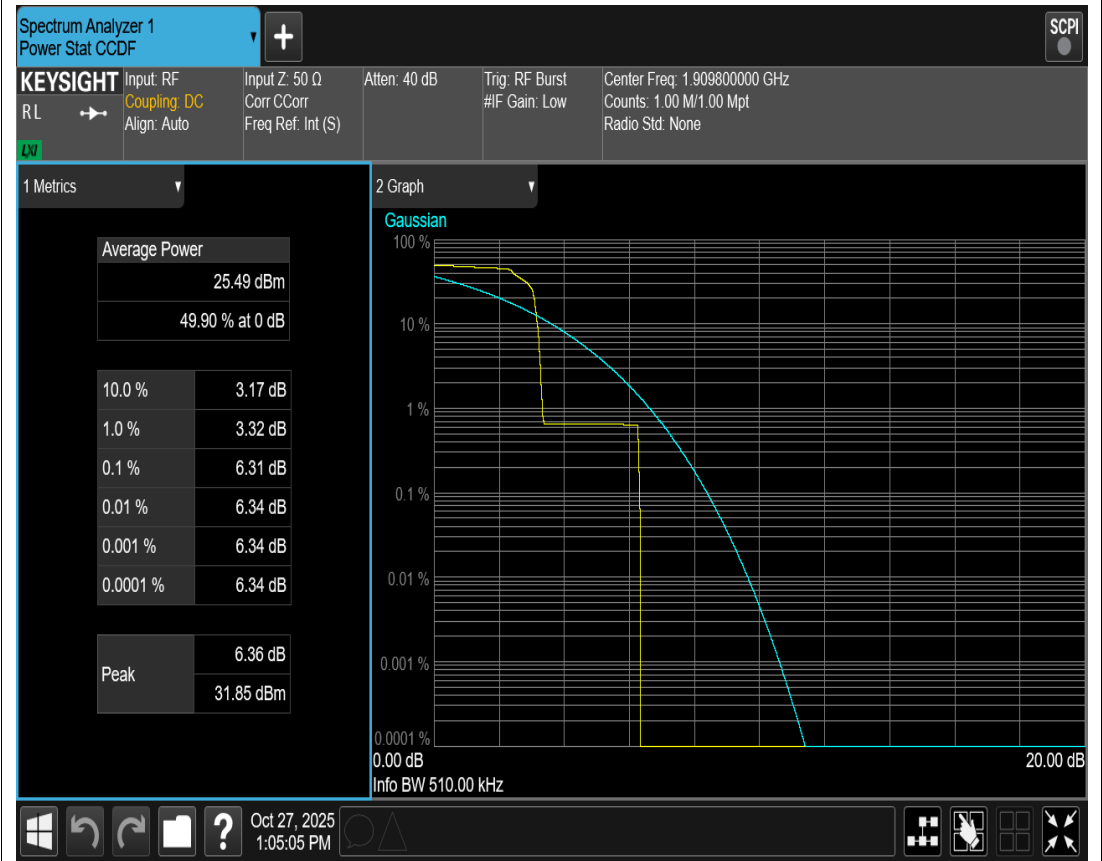
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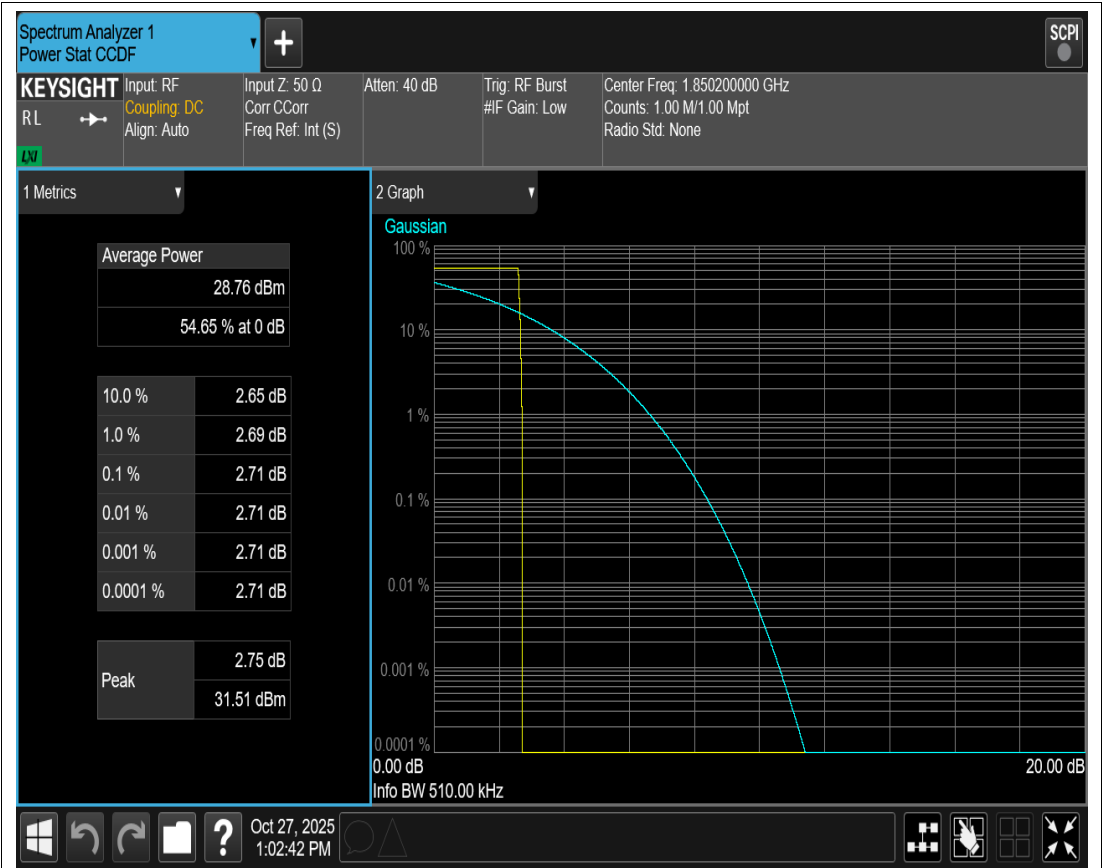
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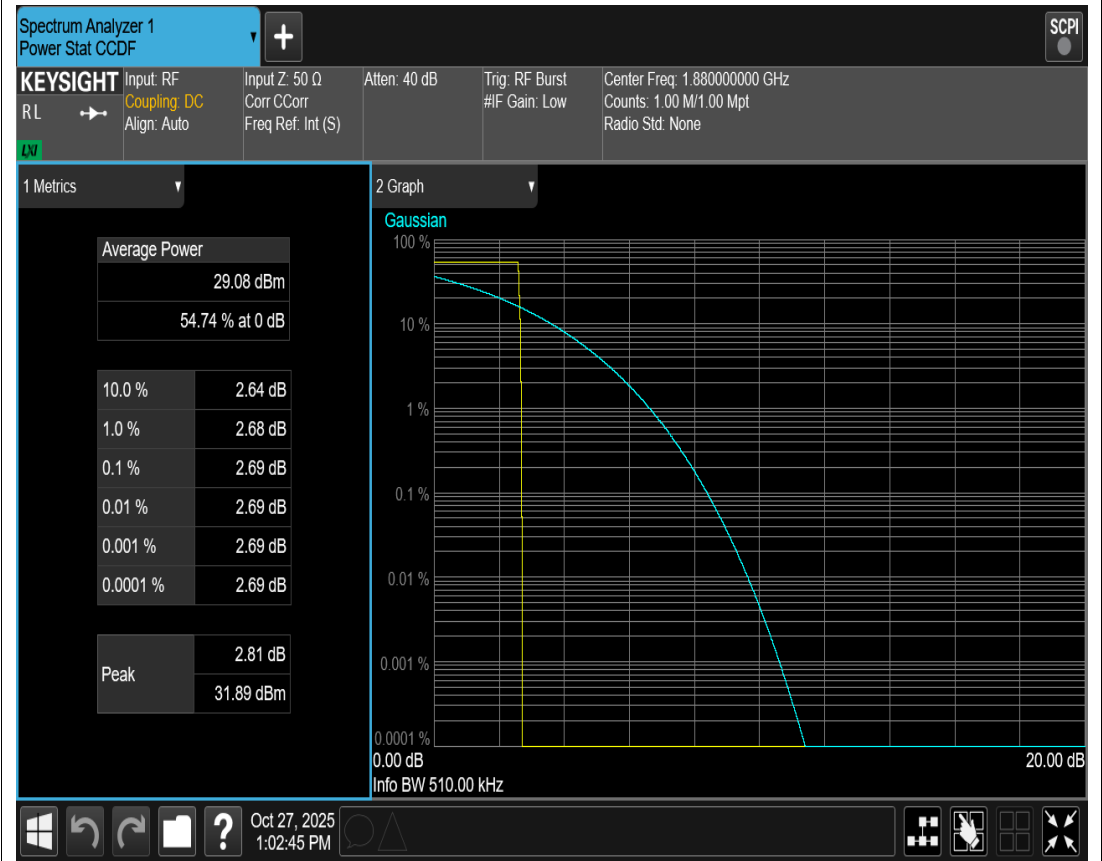
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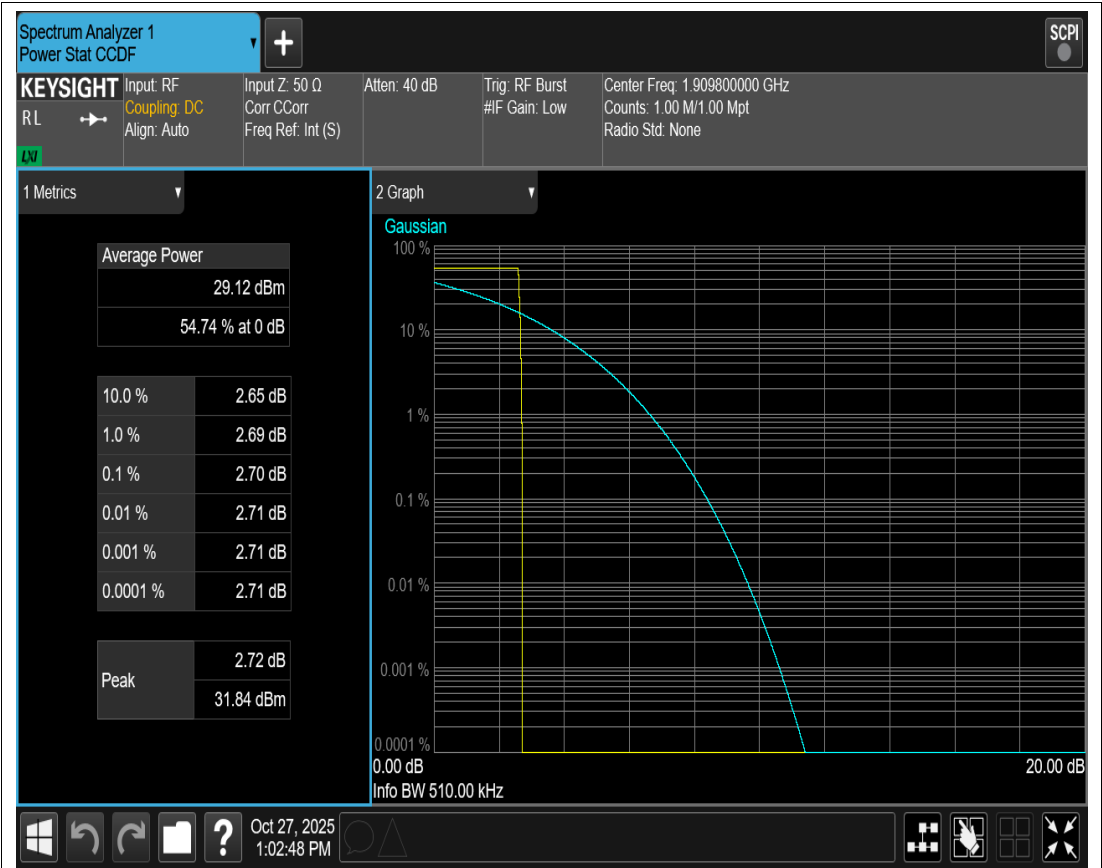
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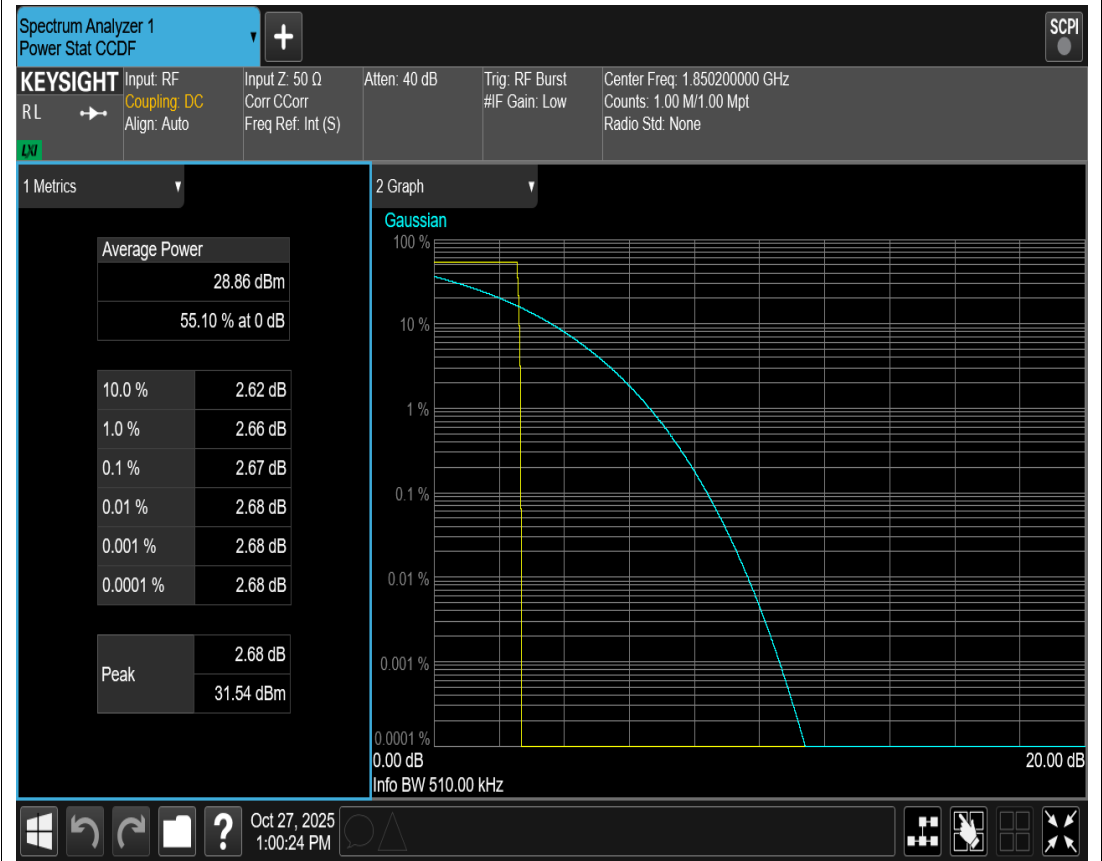
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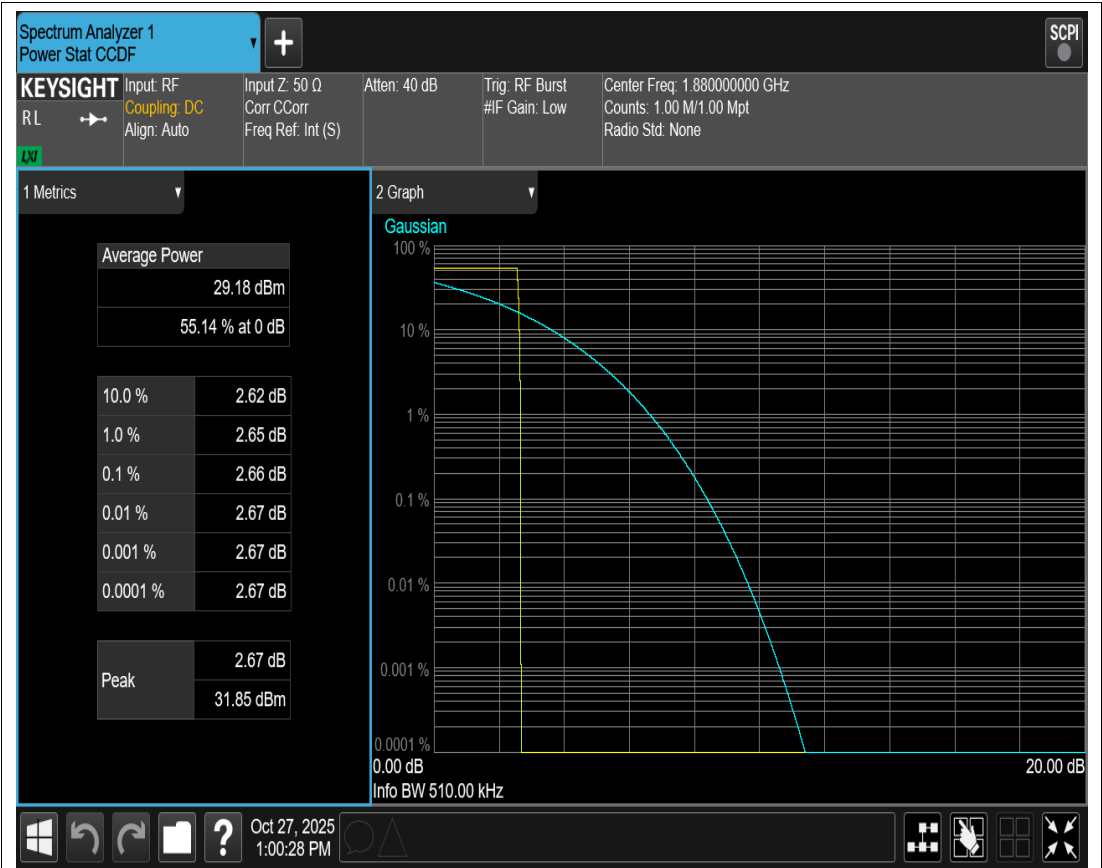
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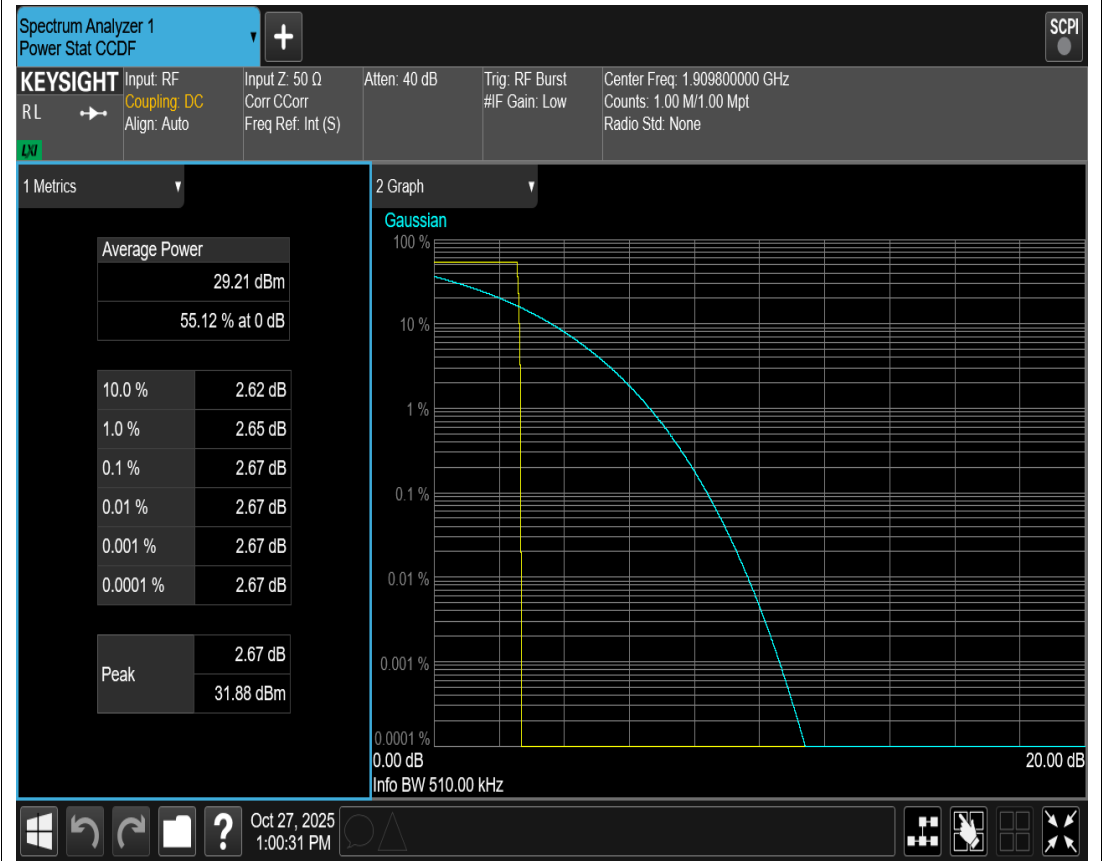
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GSM1900 Channel=512



GSM1900 Channel=661



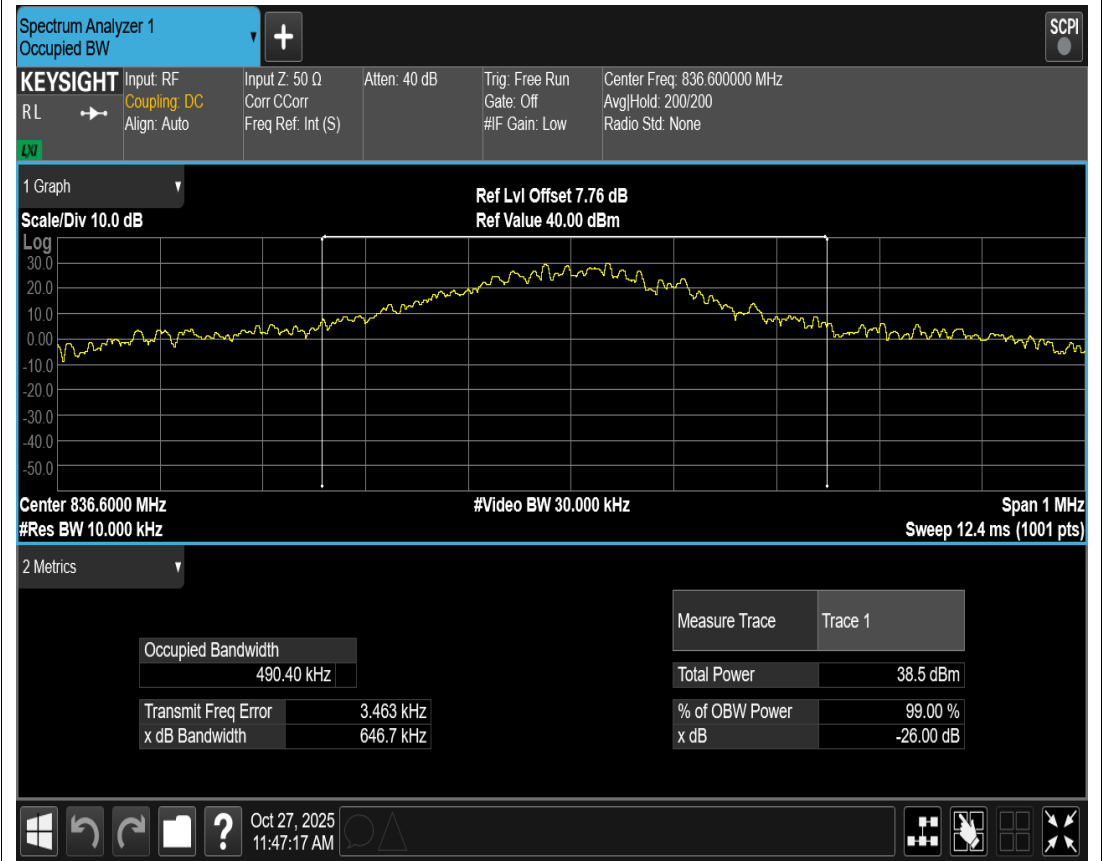
GSM1900 Channel=810

## Occupied bandwidth

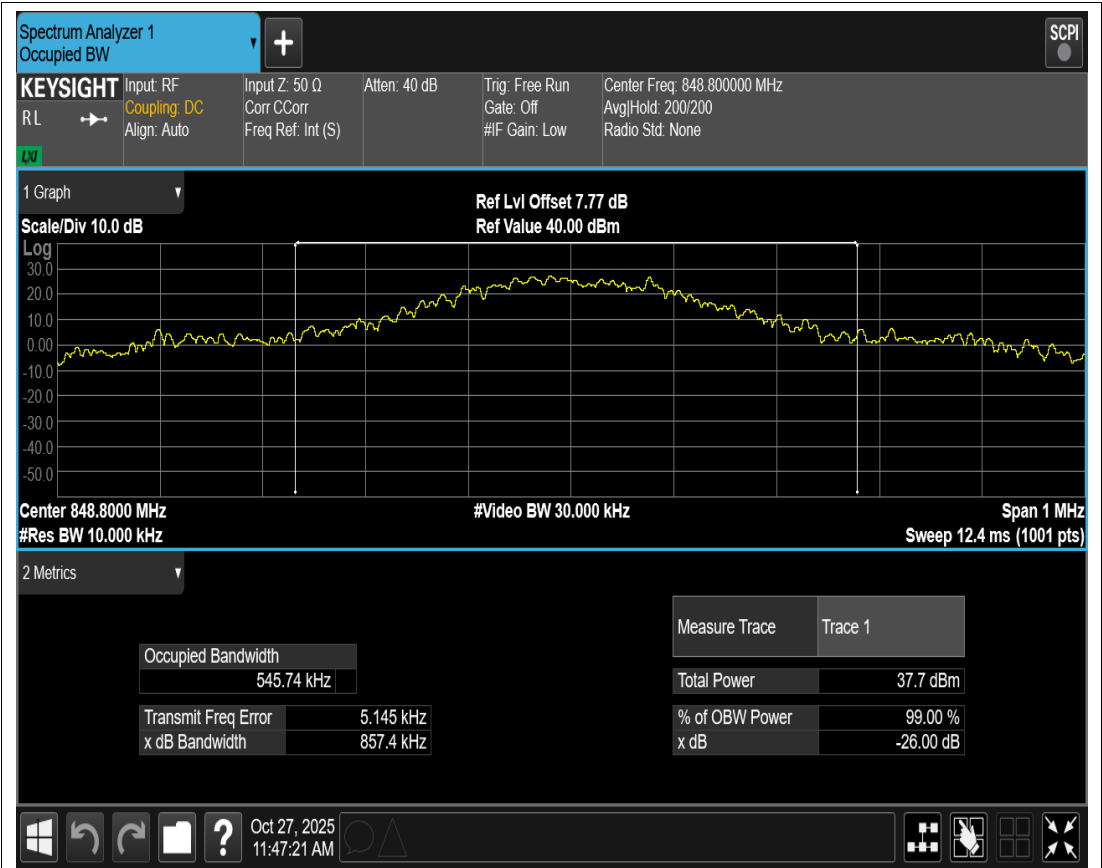
| <i>Band</i> | <i>Channel</i> | <i>Frequency (MHz)</i> | <i>99% OBW (kHz)</i> | <i>-26dB EBW (kHz)</i> | <i>Verdict</i> |
|-------------|----------------|------------------------|----------------------|------------------------|----------------|
| EGPRS850    | 128            | 824.2                  | 517.395              | 873.976                | PASS           |
| EGPRS850    | 190            | 836.6                  | 490.399              | 646.740                | PASS           |
| EGPRS850    | 251            | 848.8                  | 545.736              | 857.449                | PASS           |
| GPRS850     | 128            | 824.2                  | 240.236              | 316.011                | PASS           |
| GPRS850     | 190            | 836.6                  | 247.437              | 314.459                | PASS           |
| GPRS850     | 251            | 848.8                  | 247.531              | 318.694                | PASS           |
| GSM850      | 128            | 824.2                  | 251.992              | 313.301                | PASS           |
| GSM850      | 190            | 836.6                  | 248.059              | 318.486                | PASS           |
| GSM850      | 251            | 848.8                  | 253.205              | 315.438                | PASS           |
| EGPRS1900   | 512            | 1850.2                 | 325.136              | 434.848                | PASS           |
| EGPRS1900   | 661            | 1880                   | 344.629              | 424.735                | PASS           |
| EGPRS1900   | 810            | 1909.8                 | 331.942              | 463.340                | PASS           |
| GPRS1900    | 512            | 1850.2                 | 239.020              | 308.933                | PASS           |
| GPRS1900    | 661            | 1880                   | 245.195              | 303.430                | PASS           |
| GPRS1900    | 810            | 1909.8                 | 242.828              | 319.170                | PASS           |
| GSM1900     | 512            | 1850.2                 | 246.985              | 317.258                | PASS           |
| GSM1900     | 661            | 1880                   | 244.007              | 323.656                | PASS           |
| GSM1900     | 810            | 1909.8                 | 243.472              | 316.076                | PASS           |



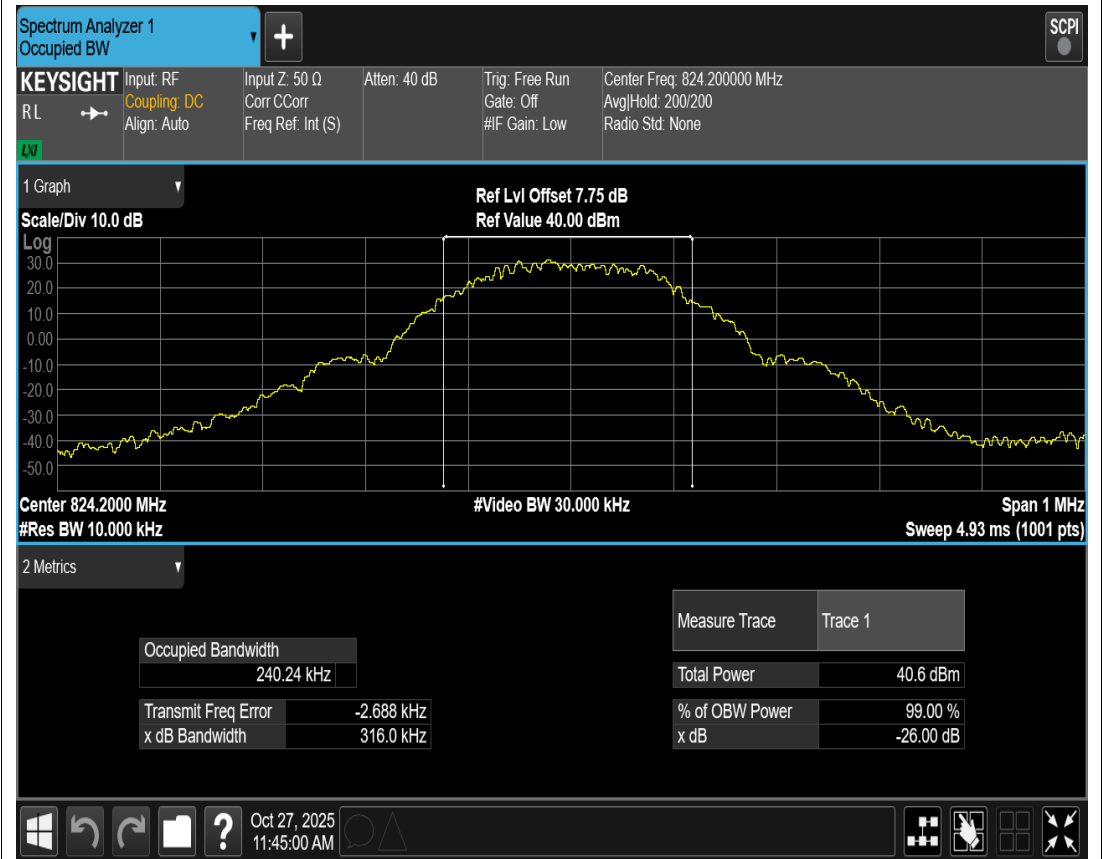
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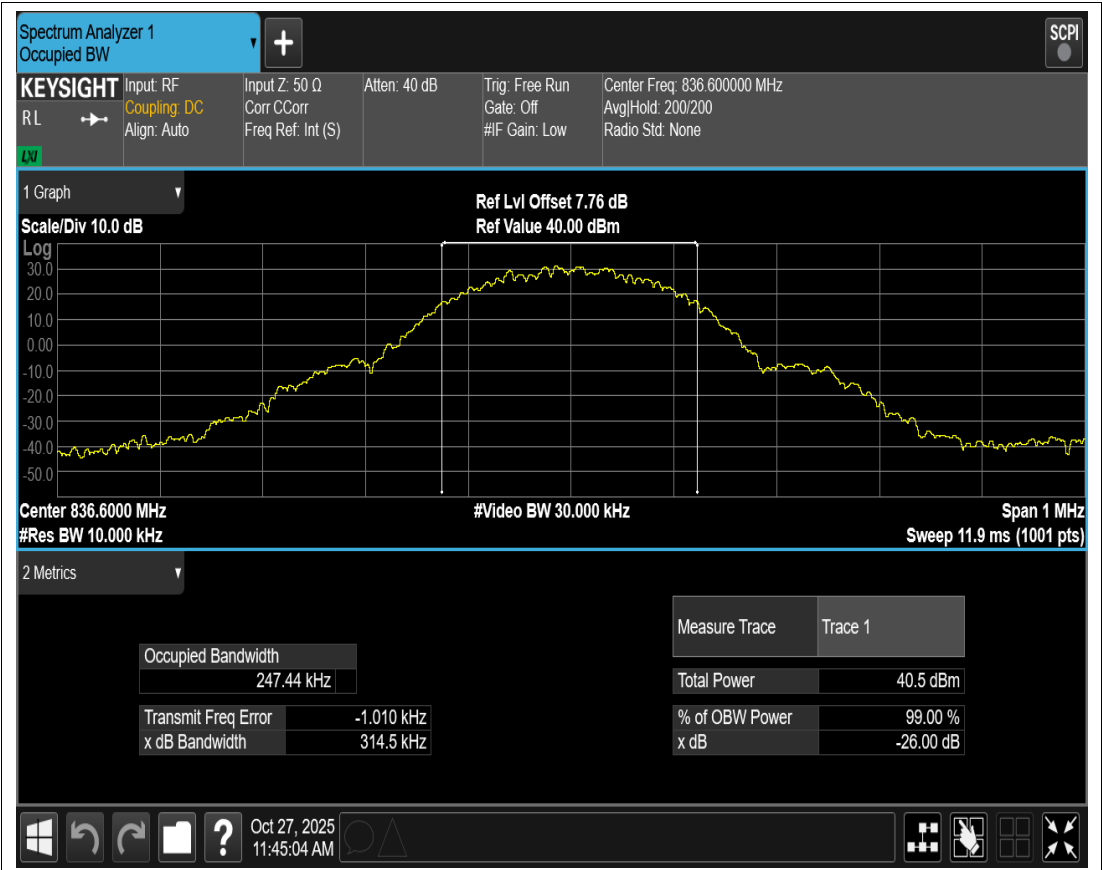
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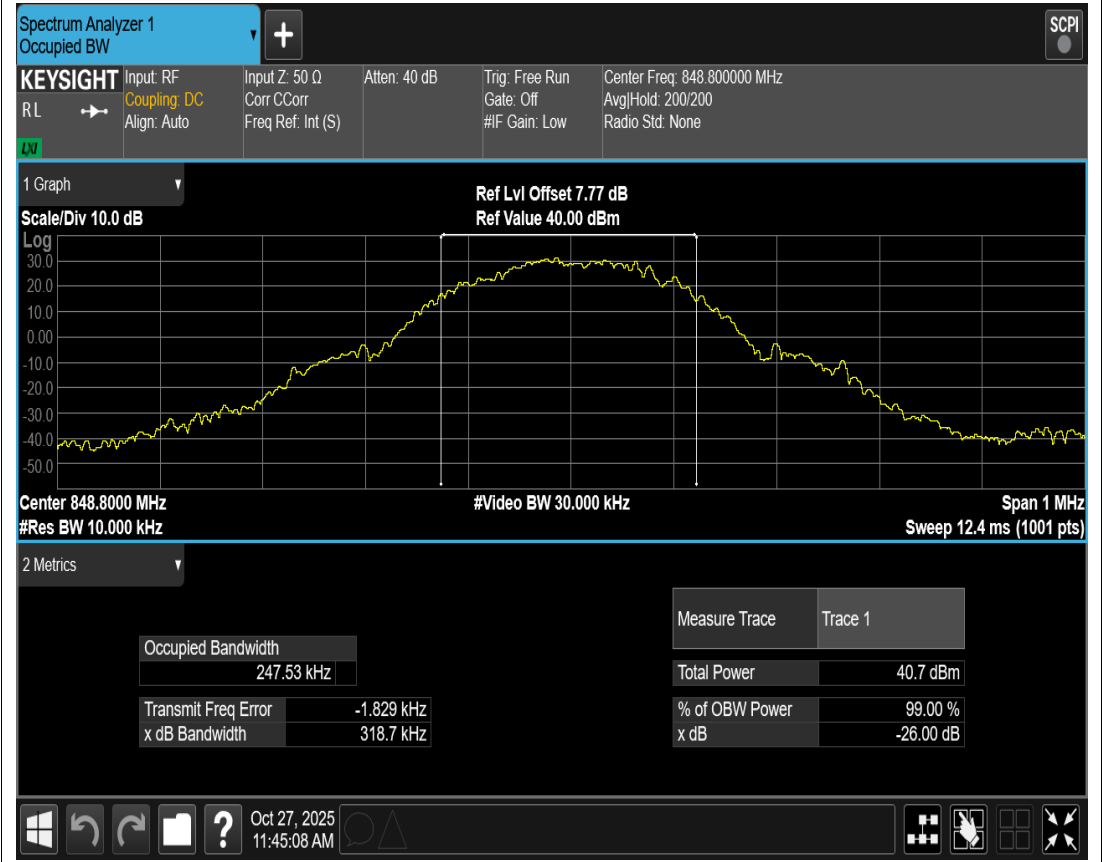
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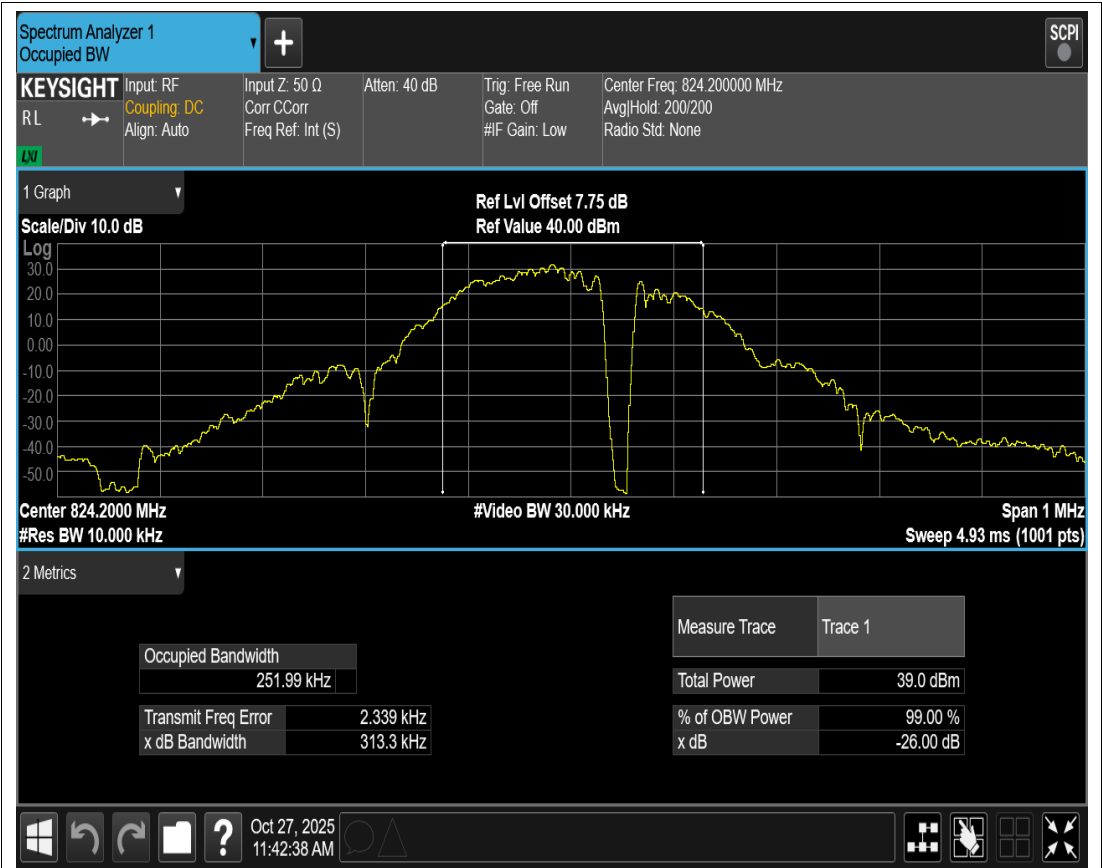
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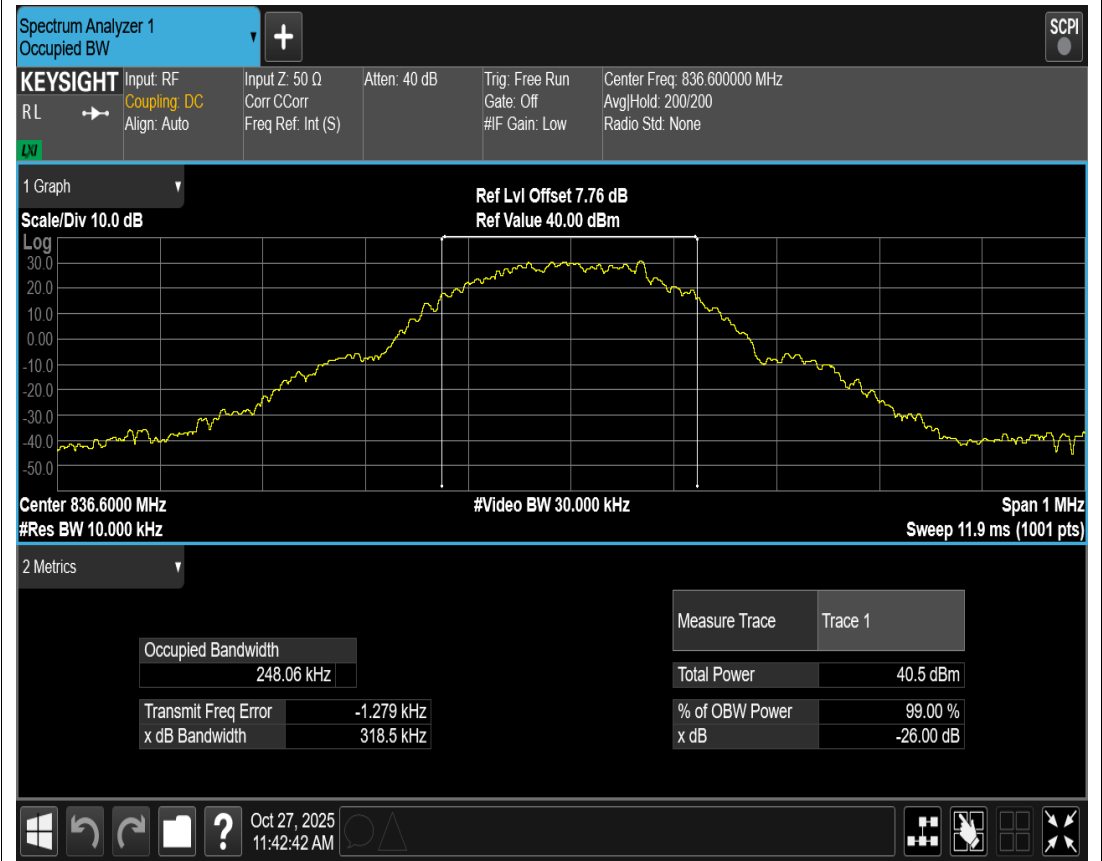
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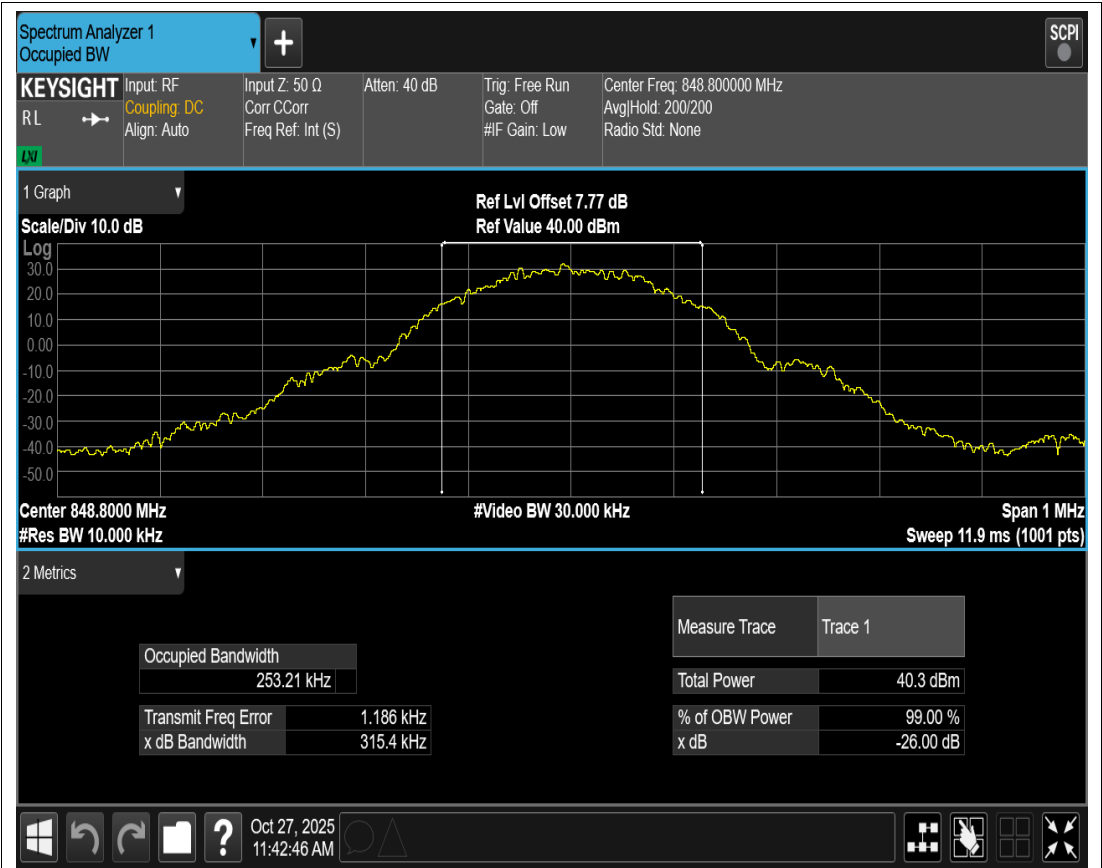
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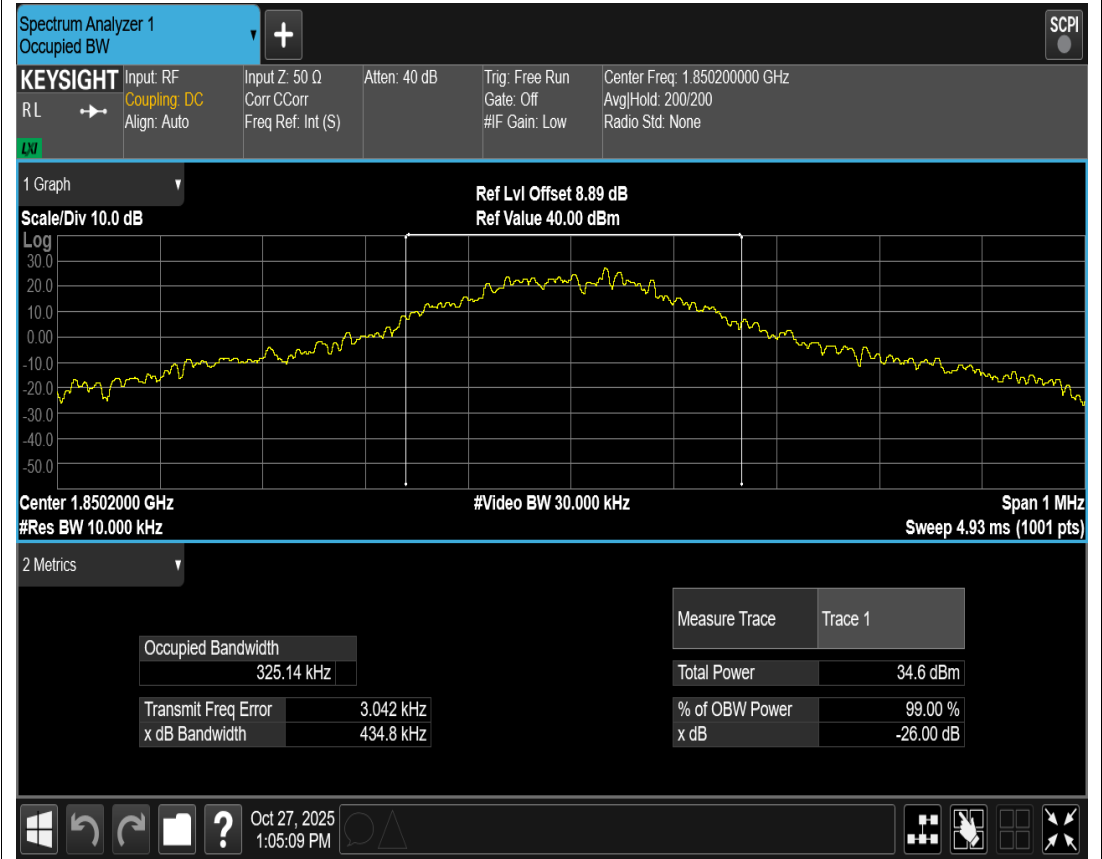
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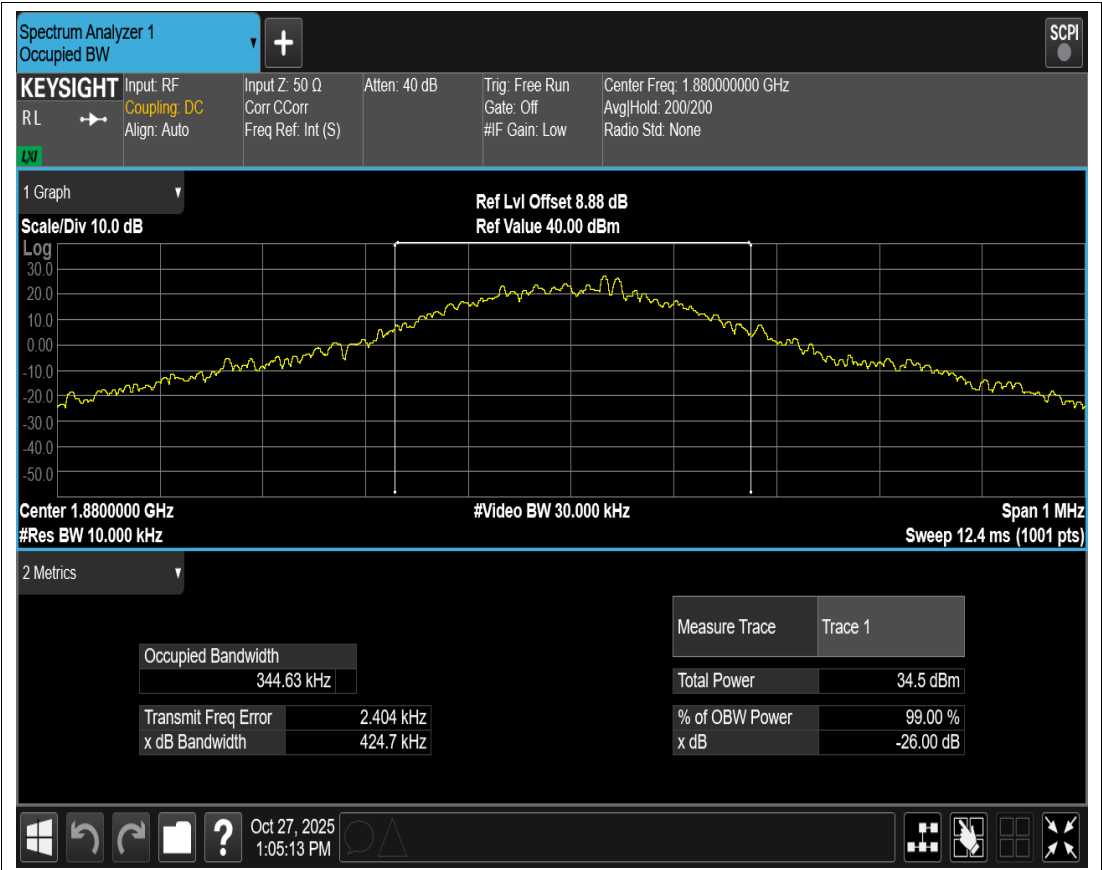
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GSM850 Channel=251



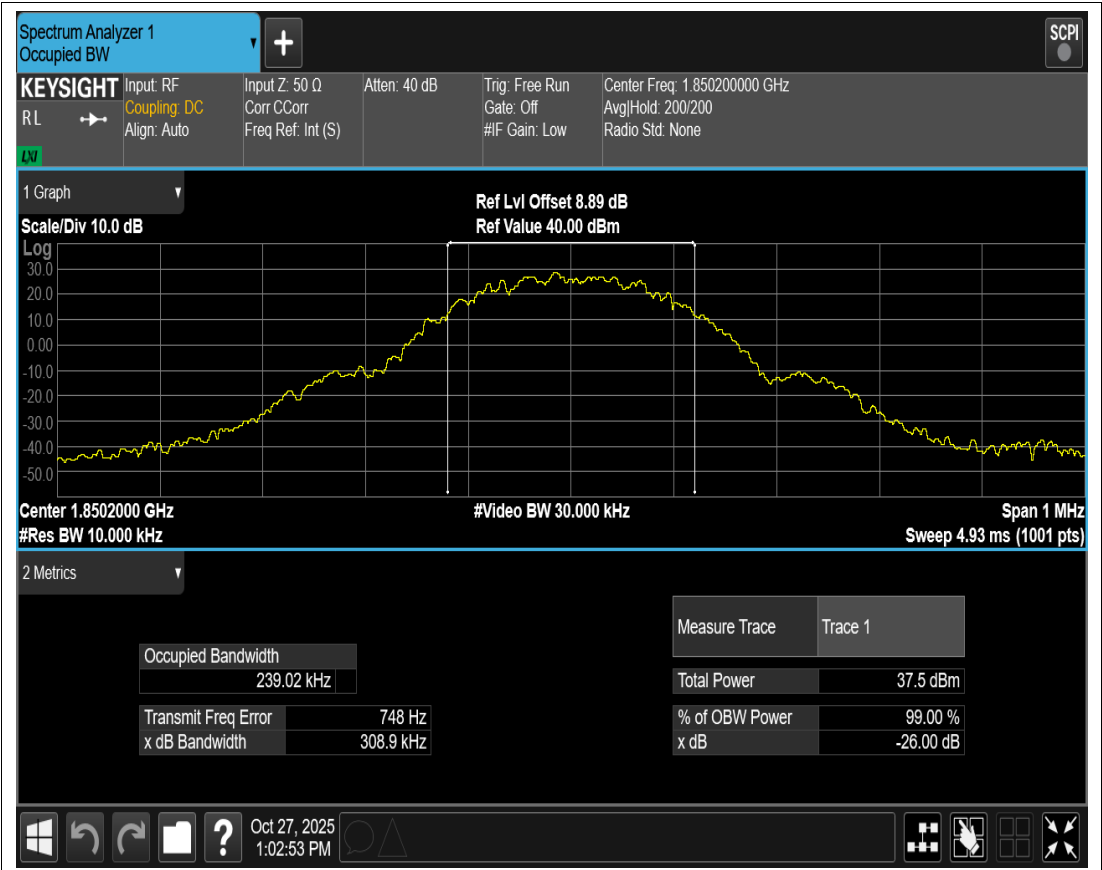
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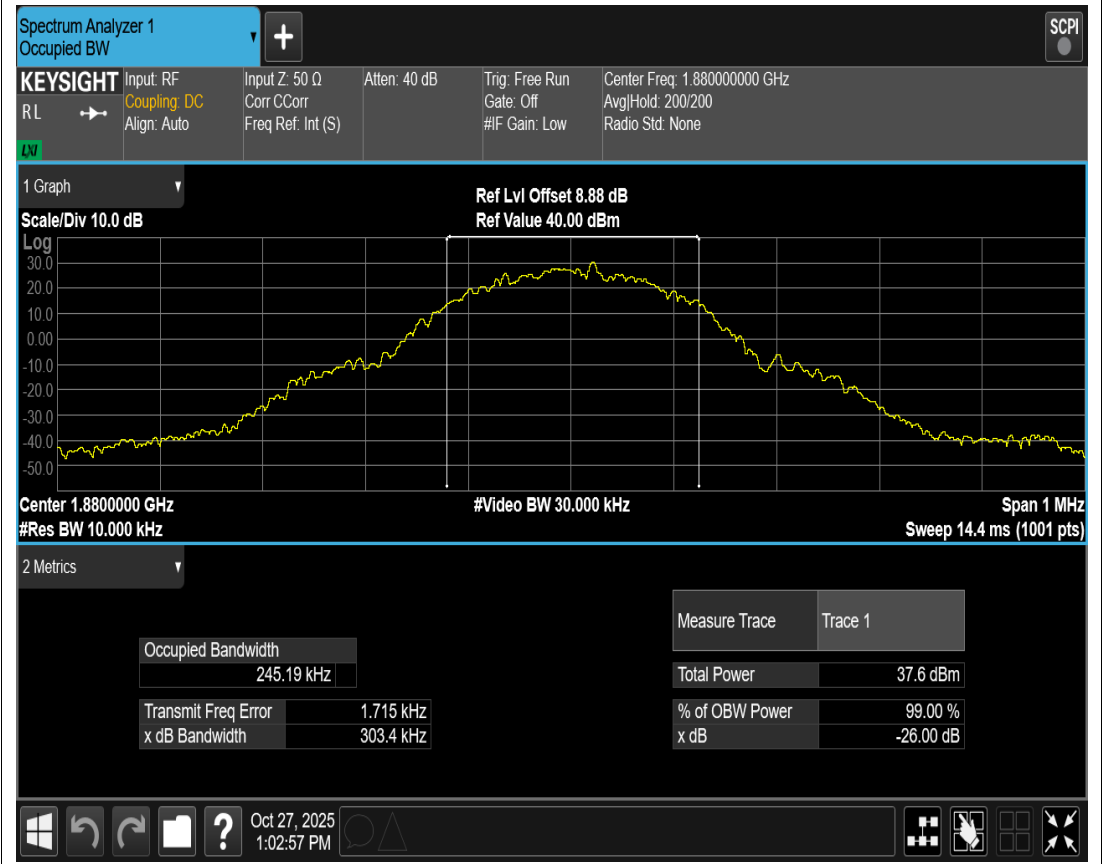
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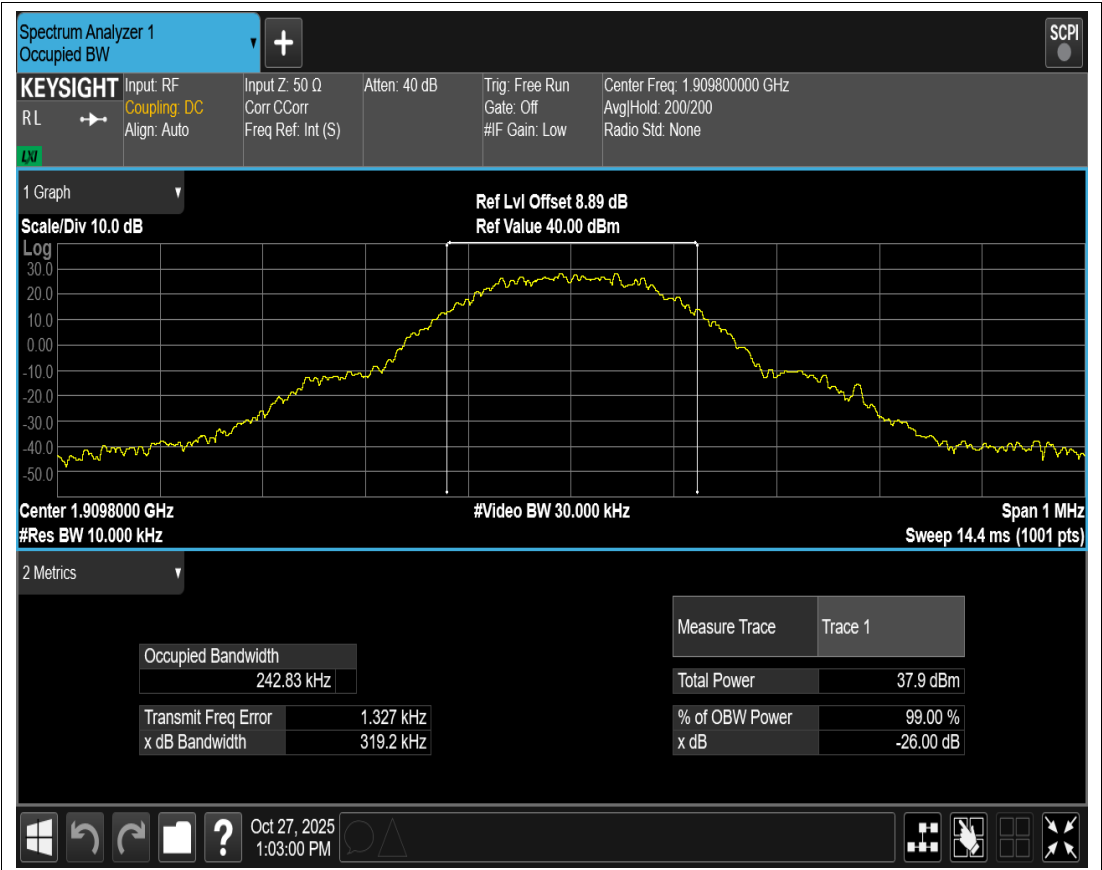
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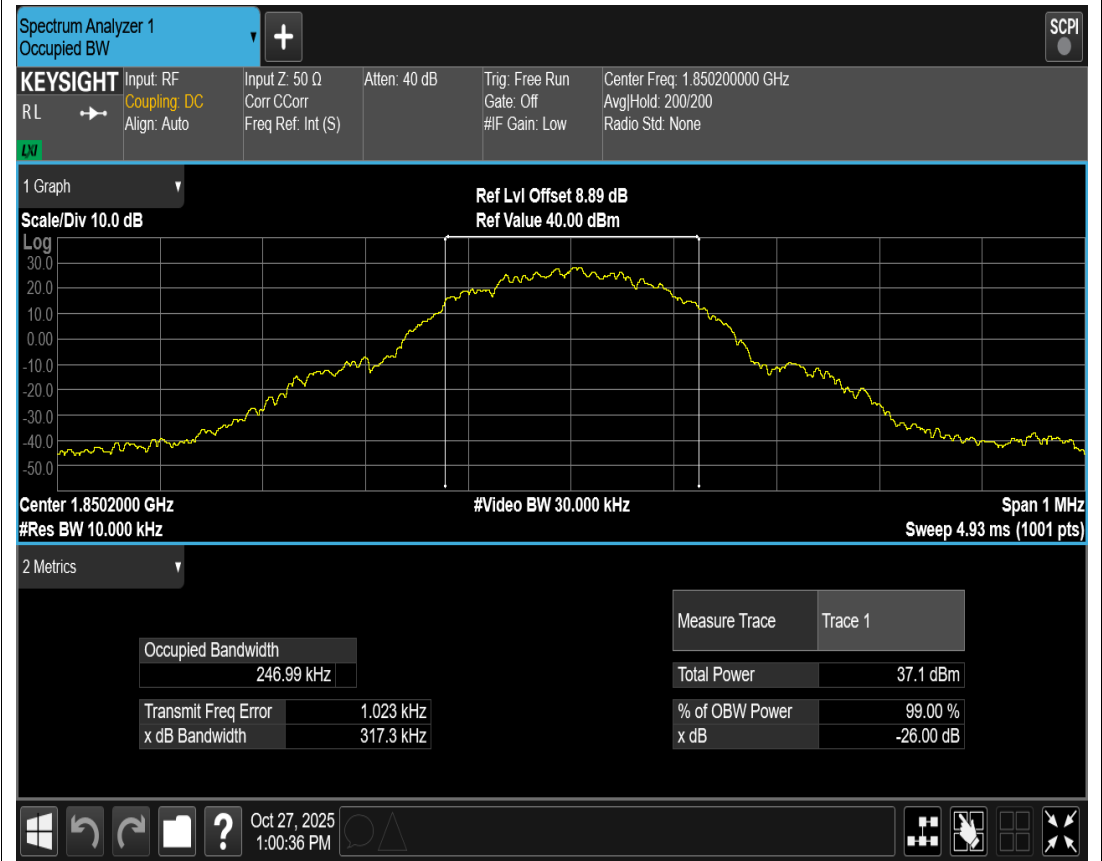
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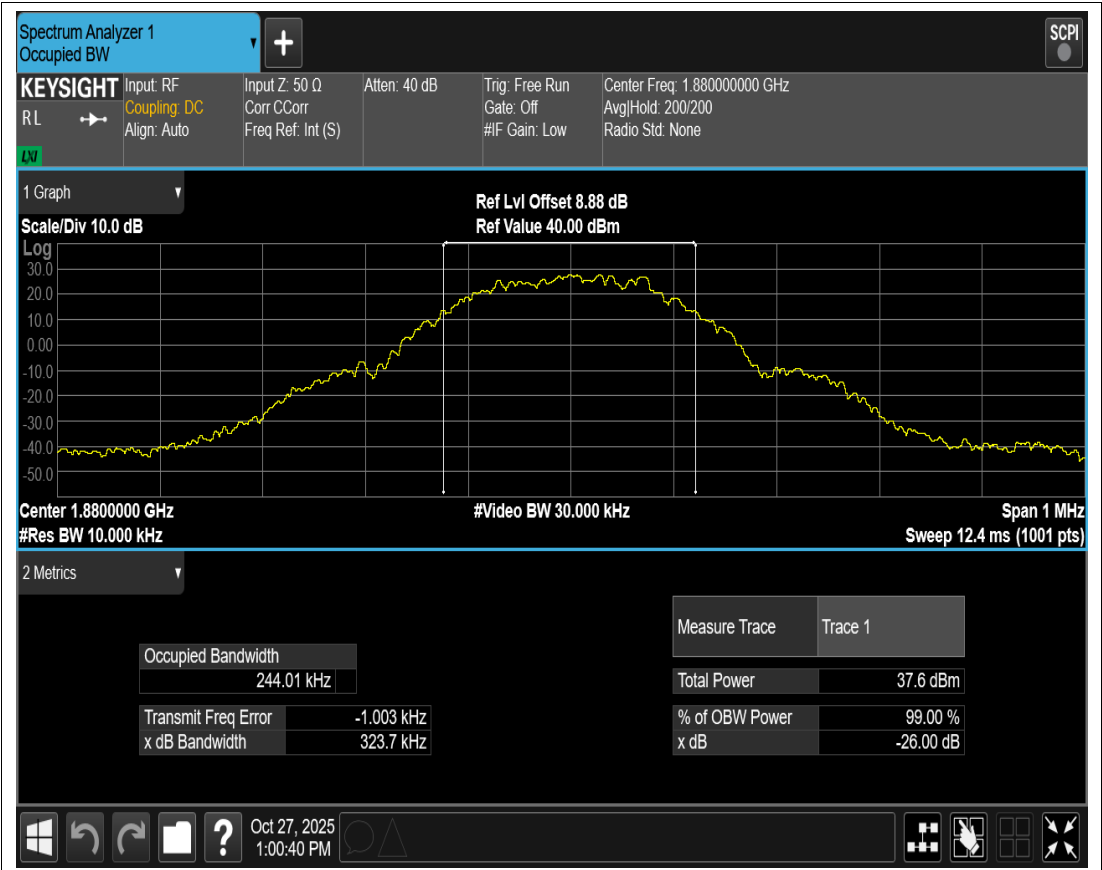
GPRS1900 Channel=661



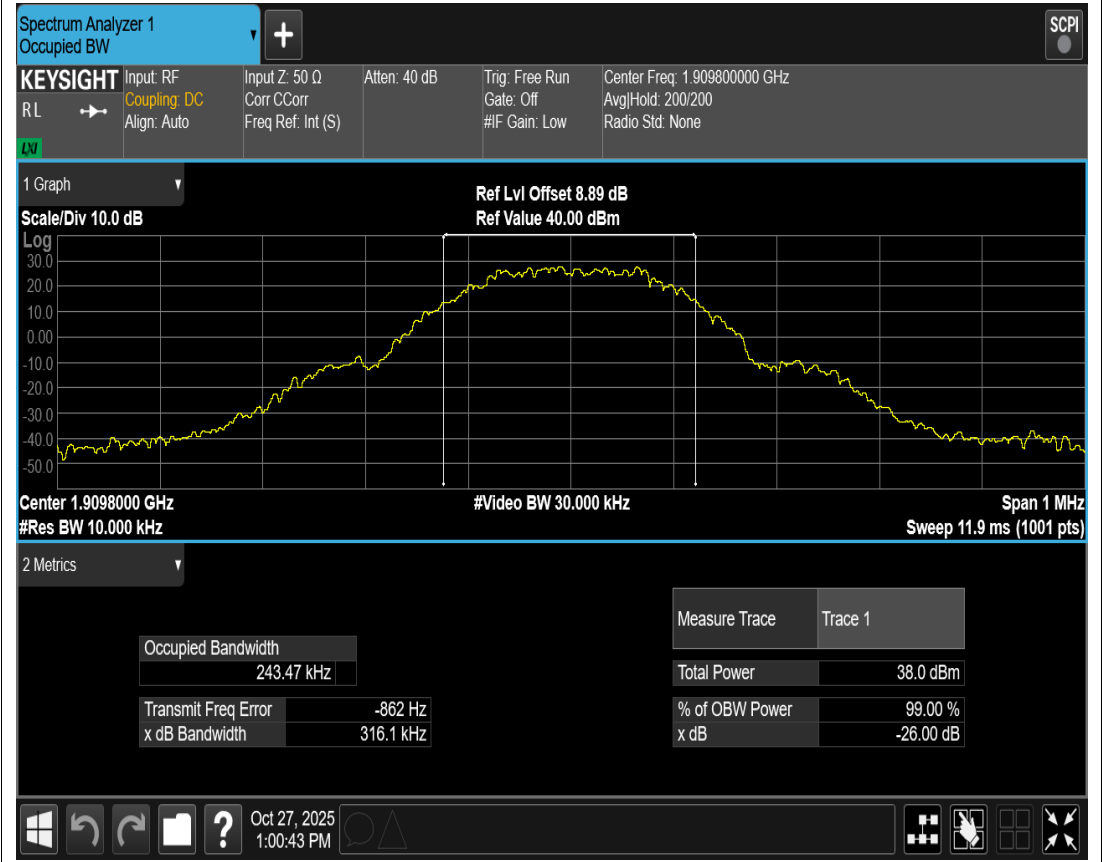
GPRS1900 Channel=810



GSM1900 Channel=512



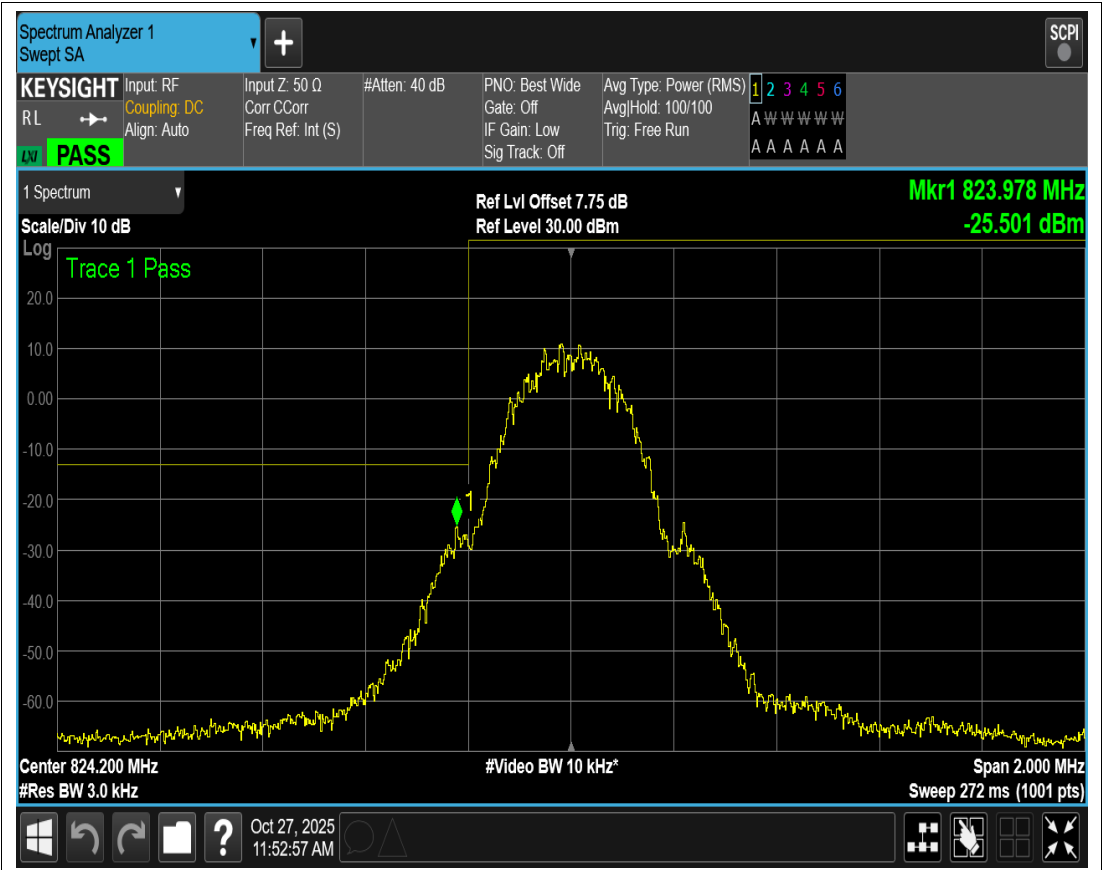
GSM1900 Channel=661



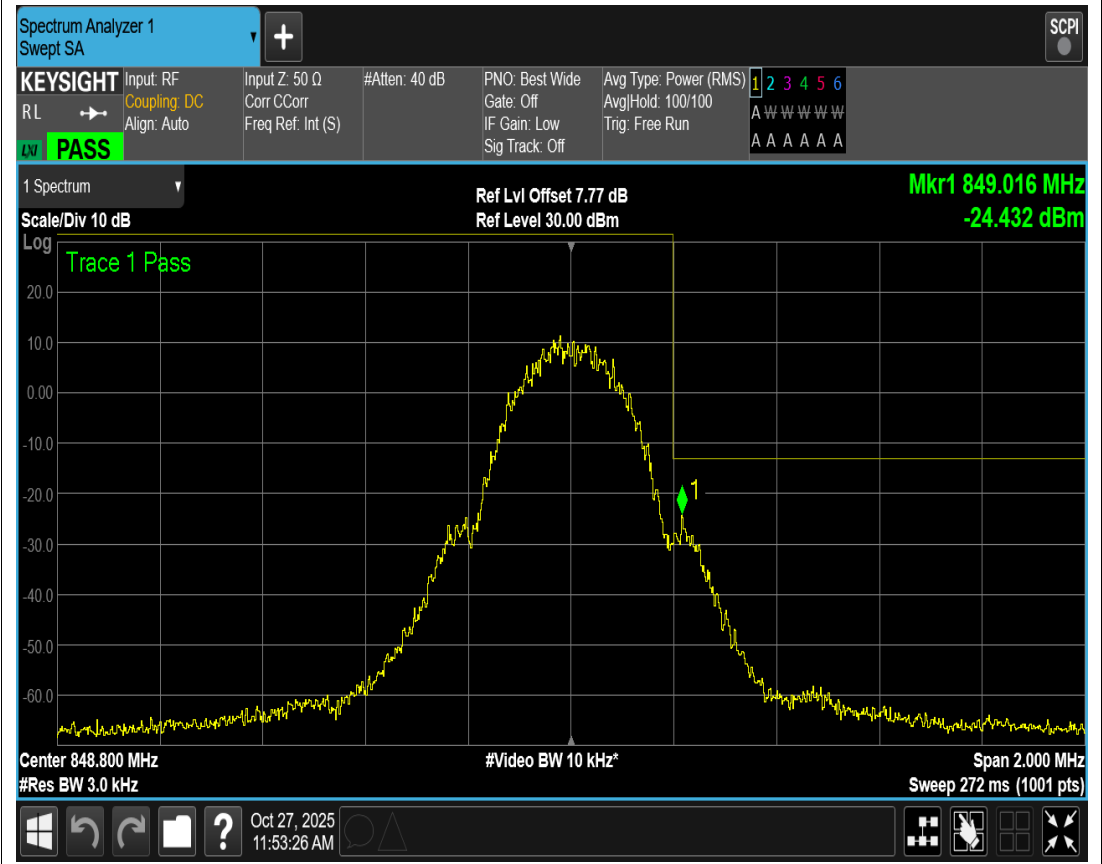
GSM1900 Channel=810

**Band edge**

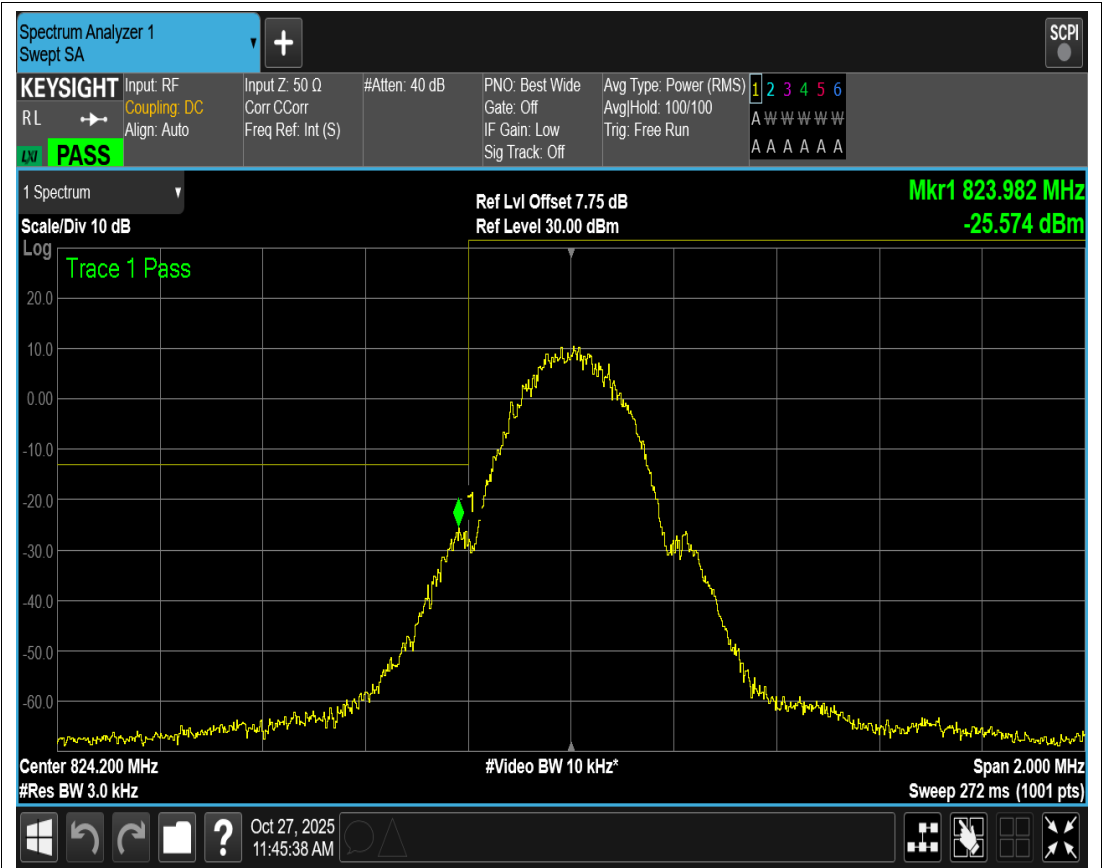
| <i>Band</i> | <i>Channel</i> | <i>Frequency (MHz)</i> | <i>Spur Freq (MHz)</i> | <i>Spur Level (dBm)</i> | <i>Limit (dBm)</i> | <i>Verdict</i> |
|-------------|----------------|------------------------|------------------------|-------------------------|--------------------|----------------|
| EGPRS850    | 128            | 824.2                  | 823.98                 | -25.50                  | -13                | PASS           |
| EGPRS850    | 251            | 848.8                  | 849.02                 | -24.43                  | -13                | PASS           |
| GPRS850     | 128            | 824.2                  | 823.98                 | -25.57                  | -13                | PASS           |
| GPRS850     | 251            | 848.8                  | 849.02                 | -24.88                  | -13                | PASS           |
| GSM850      | 128            | 824.2                  | 823.98                 | -25.30                  | -13                | PASS           |
| GSM850      | 251            | 848.8                  | 849.02                 | -25.12                  | -13                | PASS           |
| EGPRS1900   | 512            | 1850.2                 | 1850.00                | -19.68                  | -13                | PASS           |
| EGPRS1900   | 810            | 1909.8                 | 1910.02                | -21.85                  | -13                | PASS           |
| GPRS1900    | 512            | 1850.2                 | 1849.99                | -27.42                  | -13                | PASS           |
| GPRS1900    | 810            | 1909.8                 | 1910.02                | -28.56                  | -13                | PASS           |
| GSM1900     | 512            | 1850.2                 | 1849.99                | -27.83                  | -13                | PASS           |
| GSM1900     | 810            | 1909.8                 | 1910.02                | -26.52                  | -13                | PASS           |



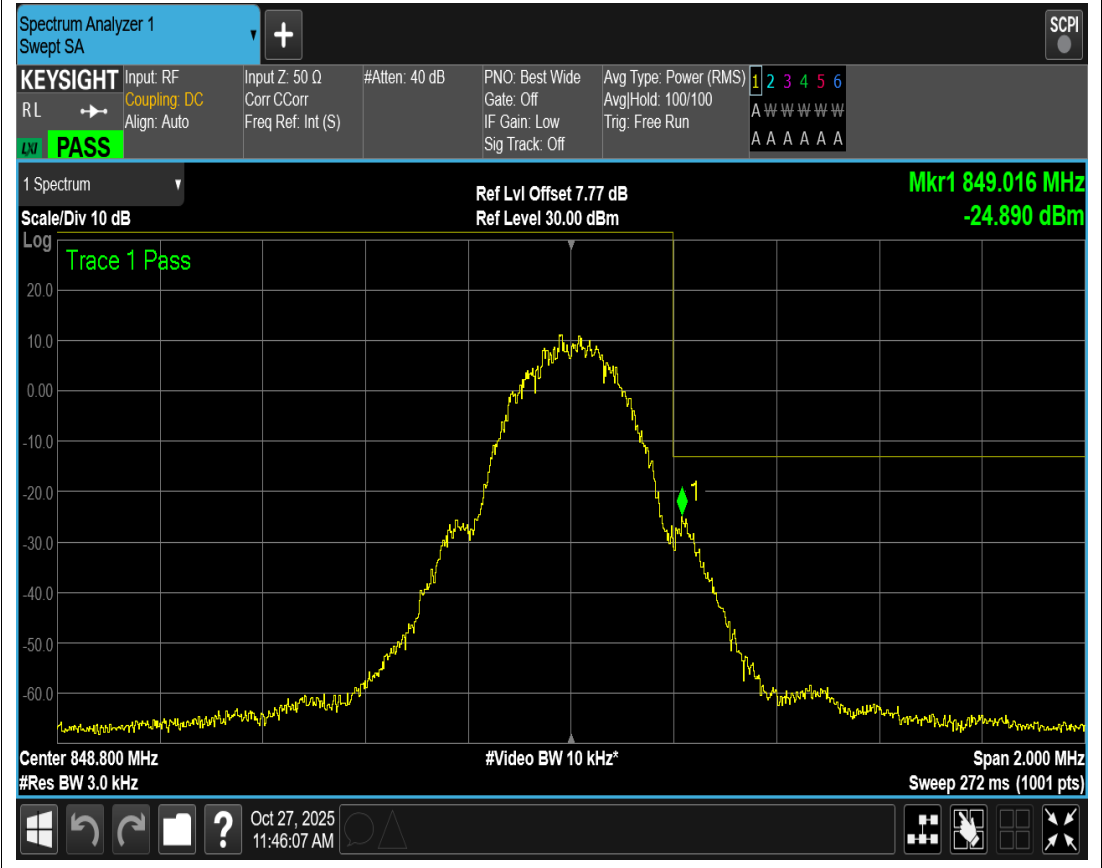
EGPRS850 Channel=128



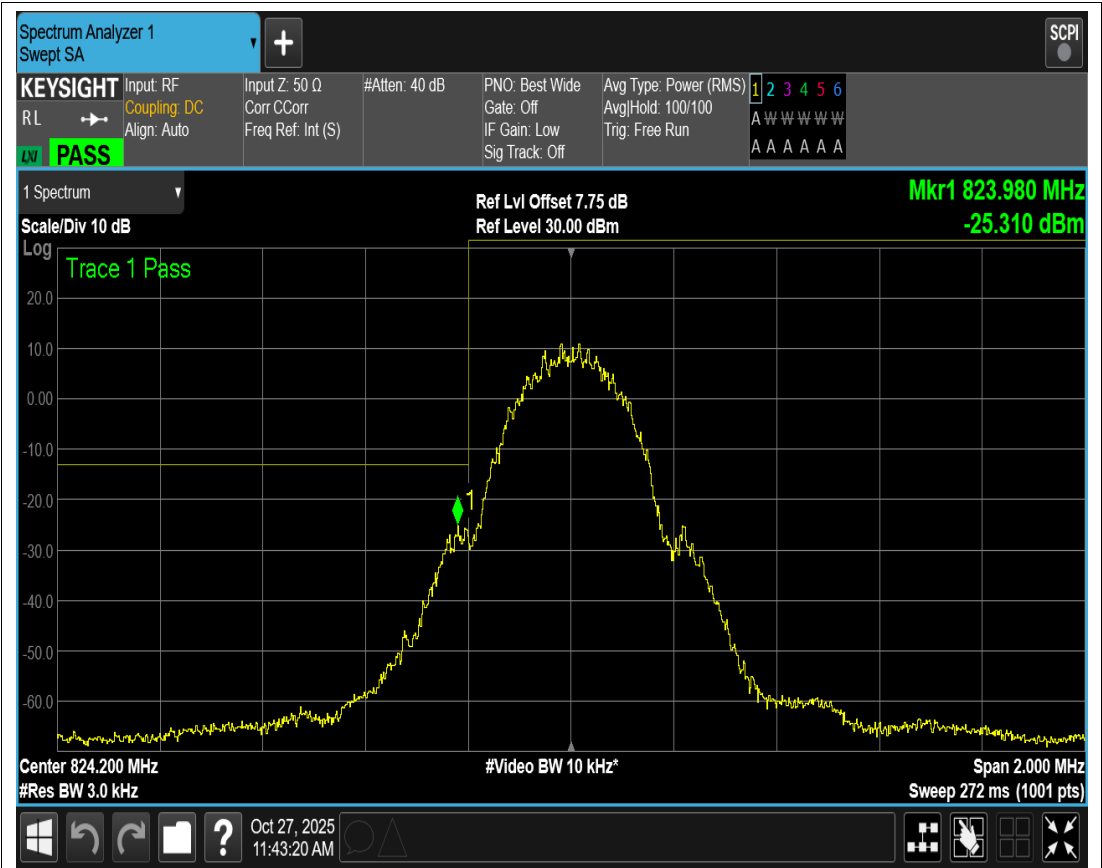
EGPRS850 Channel=251



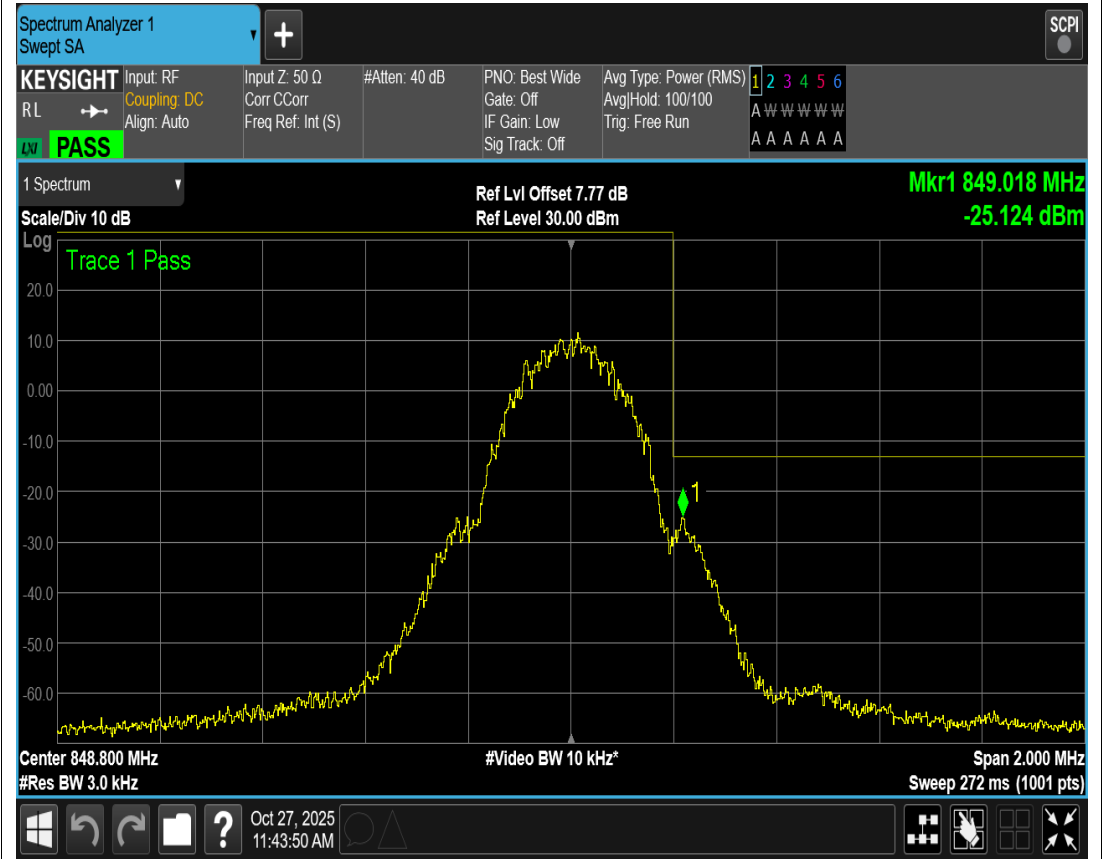
GPRS850 Channel=128



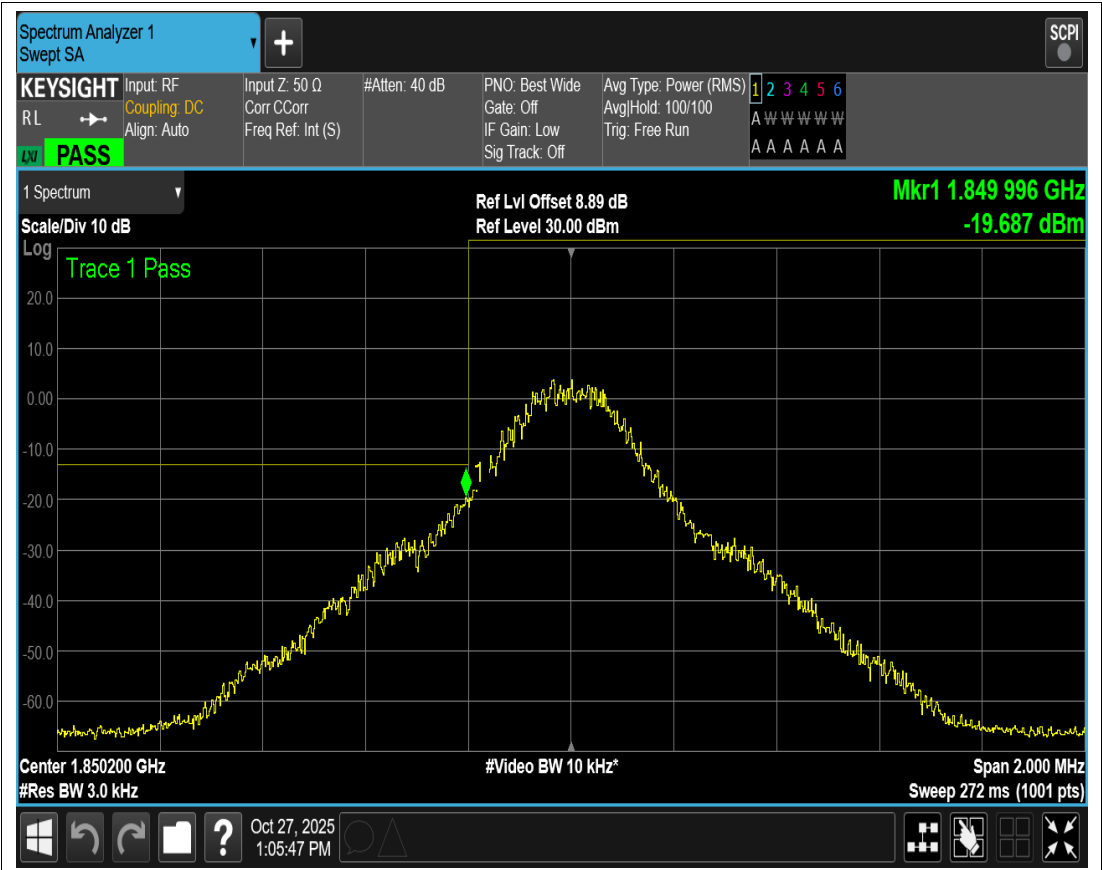
GPRS850 Channel=251



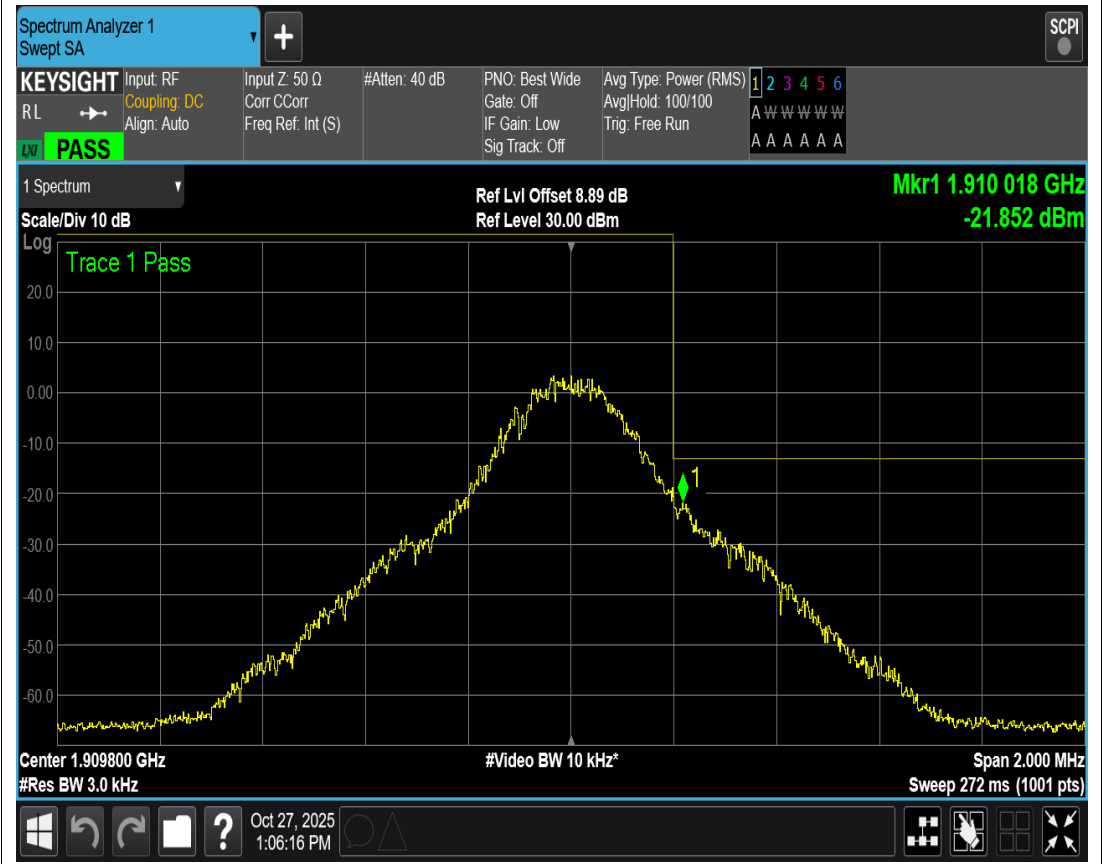
GSM850 Channel=128



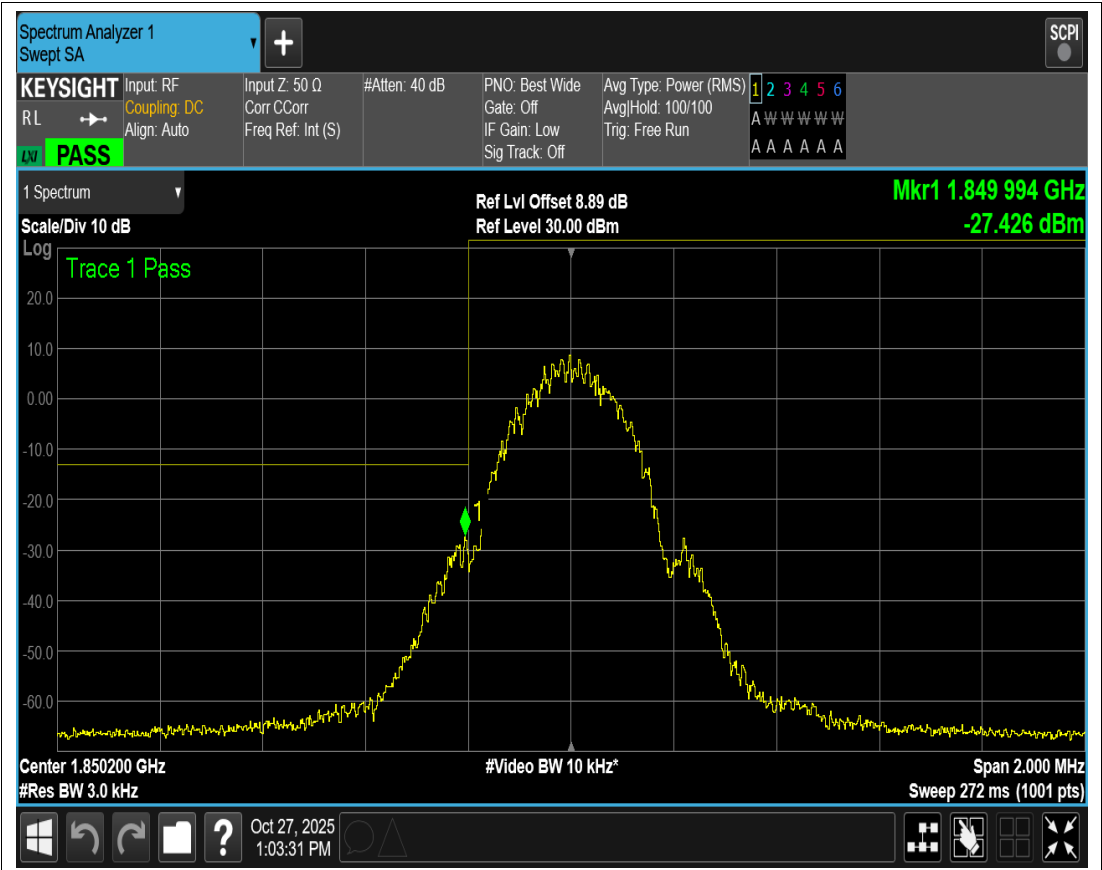
GSM850 Channel=251



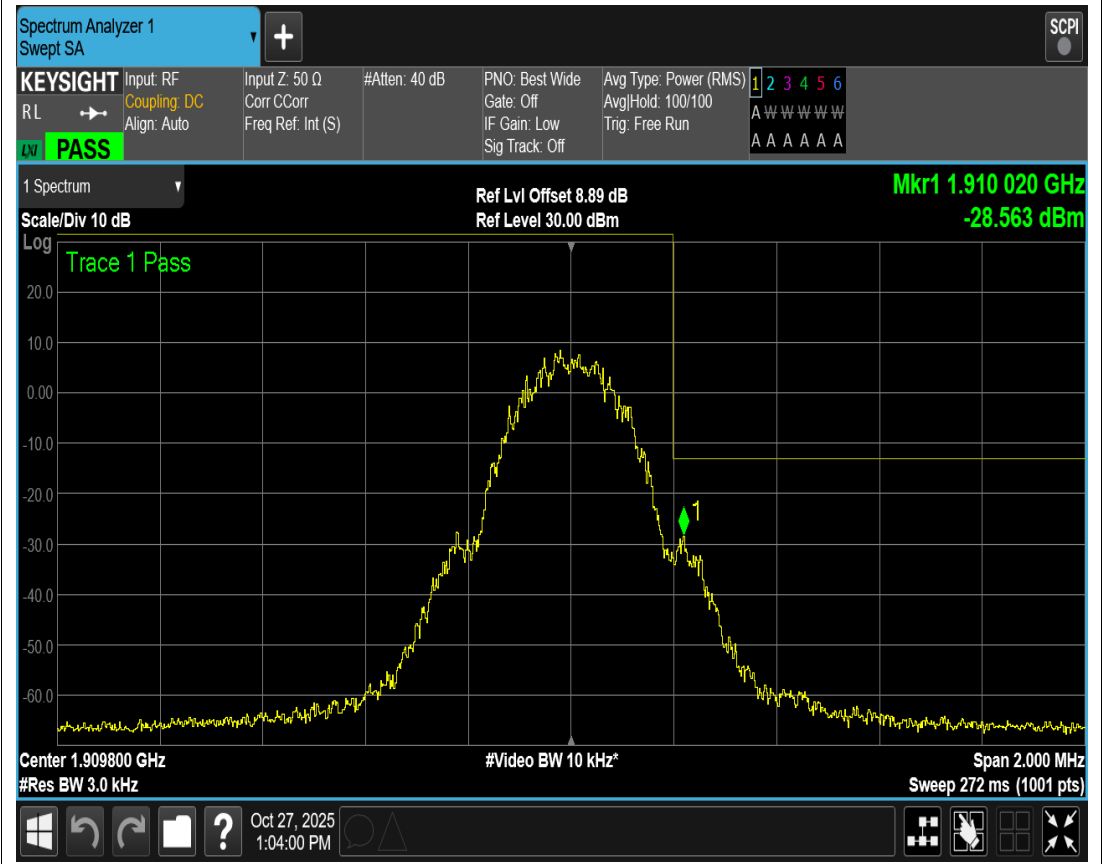
EGPRS1900 Channel=512



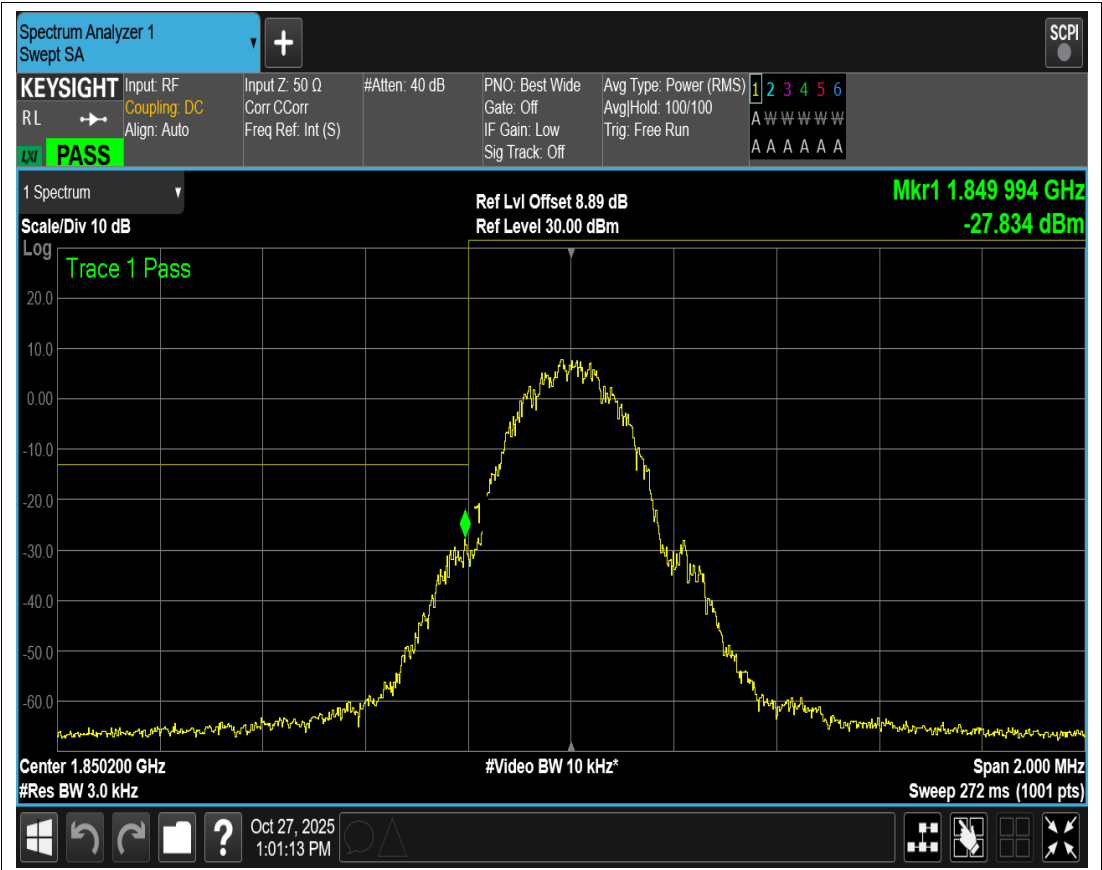
EGPRS1900 Channel=810



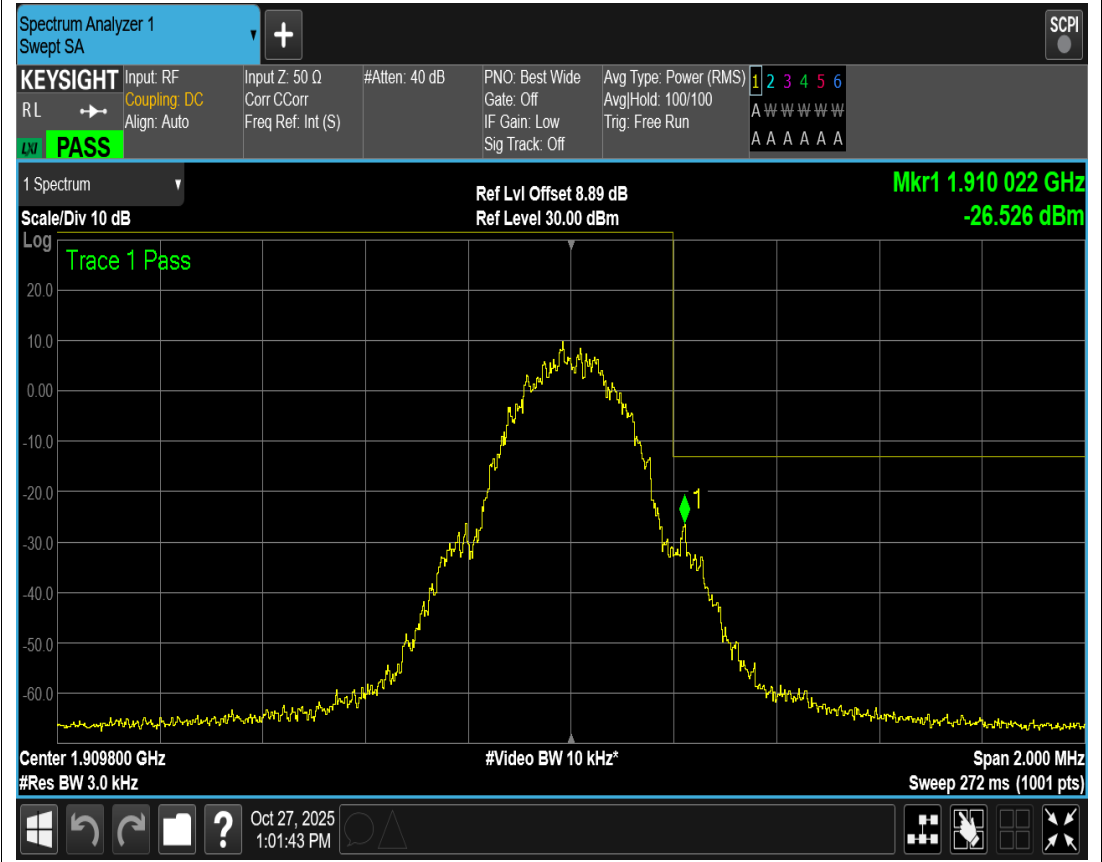
GPRS1900 Channel=512



GPRS1900 Channel=810



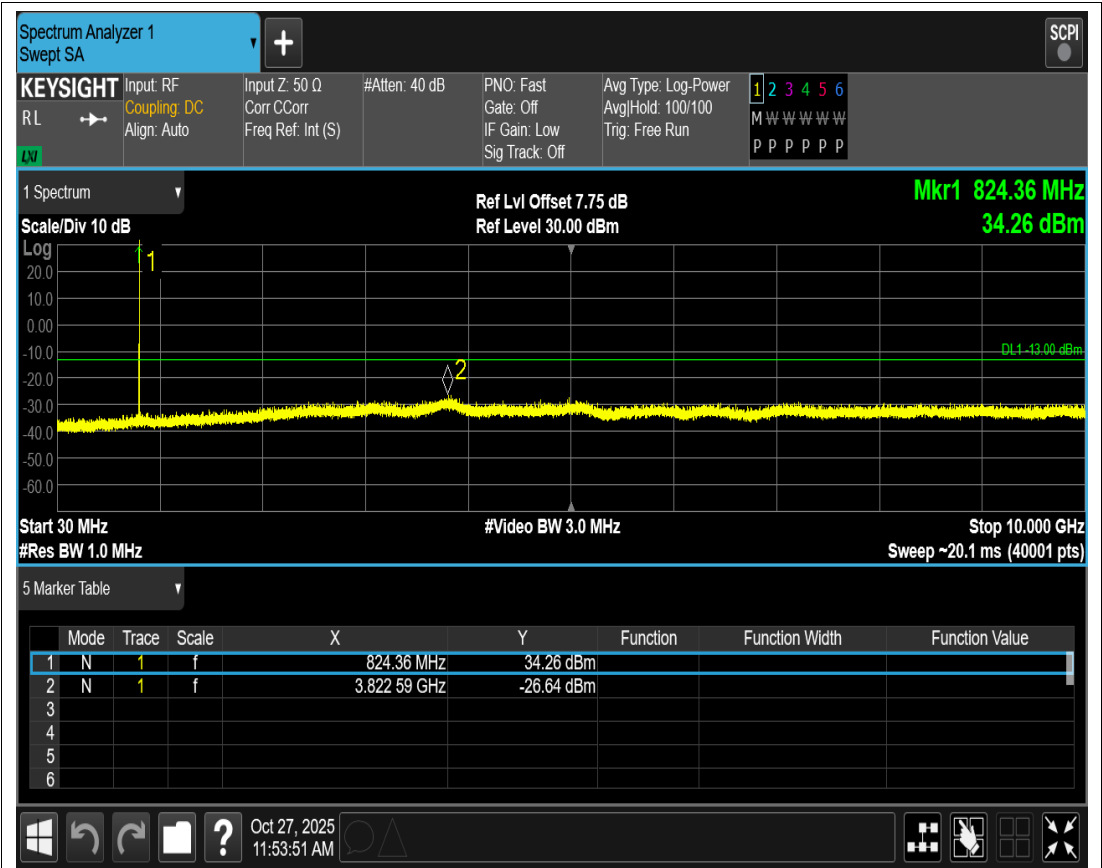
GSM1900 Channel=512



GSM1900 Channel=810

## Out-of-band emissions

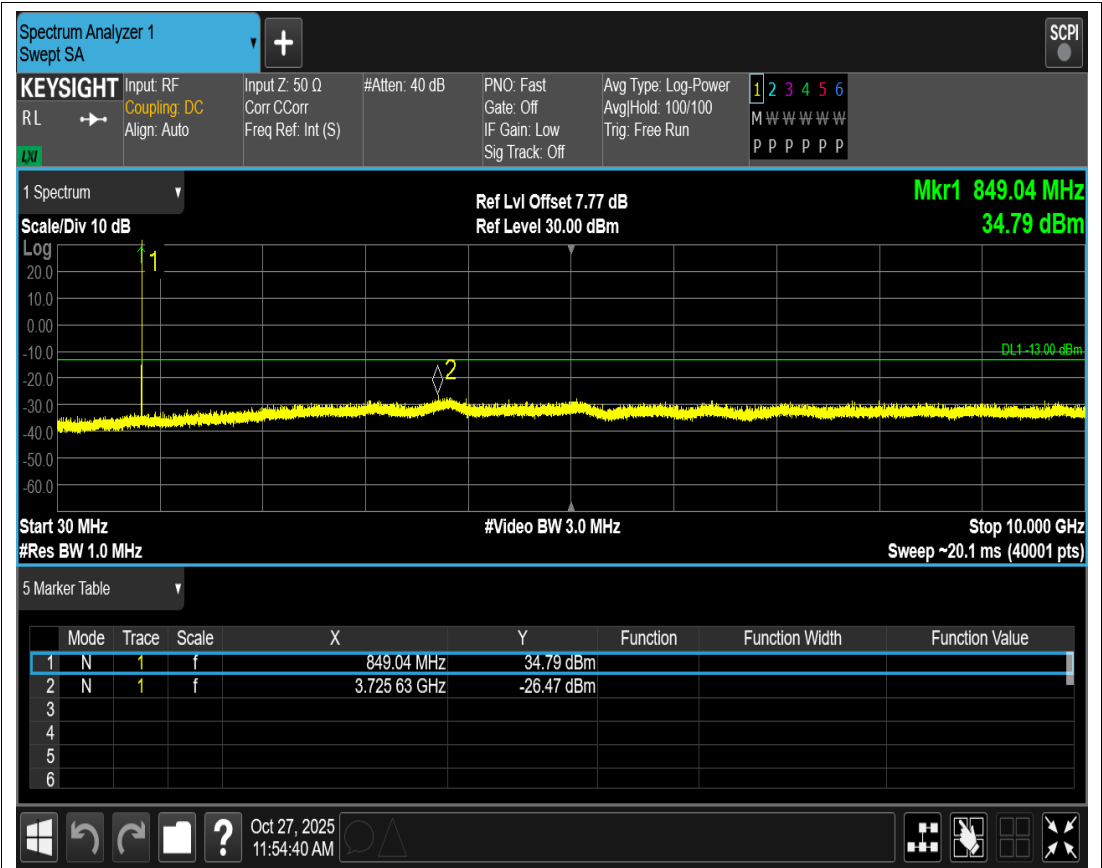
| <i>Band</i> | <i>Channel</i> | <i>Frequency (MHz)</i> | <i>Spur Freq (MHz)</i> | <i>Spur Level (dBm)</i> | <i>Limit (dBm)</i> | <i>Verdict</i> |
|-------------|----------------|------------------------|------------------------|-------------------------|--------------------|----------------|
| EGPRS850    | 128            | 824.2                  | 3822.59                | -26.63                  | -13                | PASS           |
| EGPRS850    | 190            | 836.6                  | 3725.63                | -26.27                  | -13                | PASS           |
| EGPRS850    | 251            | 848.8                  | 3725.63                | -26.46                  | -13                | PASS           |
| GPRS850     | 128            | 824.2                  | 3838.79                | -27.53                  | -13                | PASS           |
| GPRS850     | 190            | 836.6                  | 3805.64                | -26.82                  | -13                | PASS           |
| GPRS850     | 251            | 848.8                  | 3858.73                | -27.12                  | -13                | PASS           |
| GSM850      | 128            | 824.2                  | 3735.60                | -27.48                  | -13                | PASS           |
| GSM850      | 190            | 836.6                  | 3822.34                | -27.60                  | -13                | PASS           |
| GSM850      | 251            | 848.8                  | 3202.70                | -27.91                  | -13                | PASS           |
| EGPRS1900   | 512            | 1850.2                 | 3658.55                | -25.76                  | -13                | PASS           |
| EGPRS1900   | 661            | 1880                   | 3834.78                | -25.91                  | -13                | PASS           |
| EGPRS1900   | 810            | 1909.8                 | 3737.93                | -25.67                  | -13                | PASS           |
| GPRS1900    | 512            | 1850.2                 | 3812.32                | -25.05                  | -13                | PASS           |
| GPRS1900    | 661            | 1880                   | 19134.30               | -25.83                  | -13                | PASS           |
| GPRS1900    | 810            | 1909.8                 | 3911.67                | -25.91                  | -13                | PASS           |
| GSM1900     | 512            | 1850.2                 | 3750.91                | -25.90                  | -13                | PASS           |
| GSM1900     | 661            | 1880                   | 3784.86                | -25.71                  | -13                | PASS           |
| GSM1900     | 810            | 1909.8                 | 3861.24                | -26.43                  | -13                | PASS           |



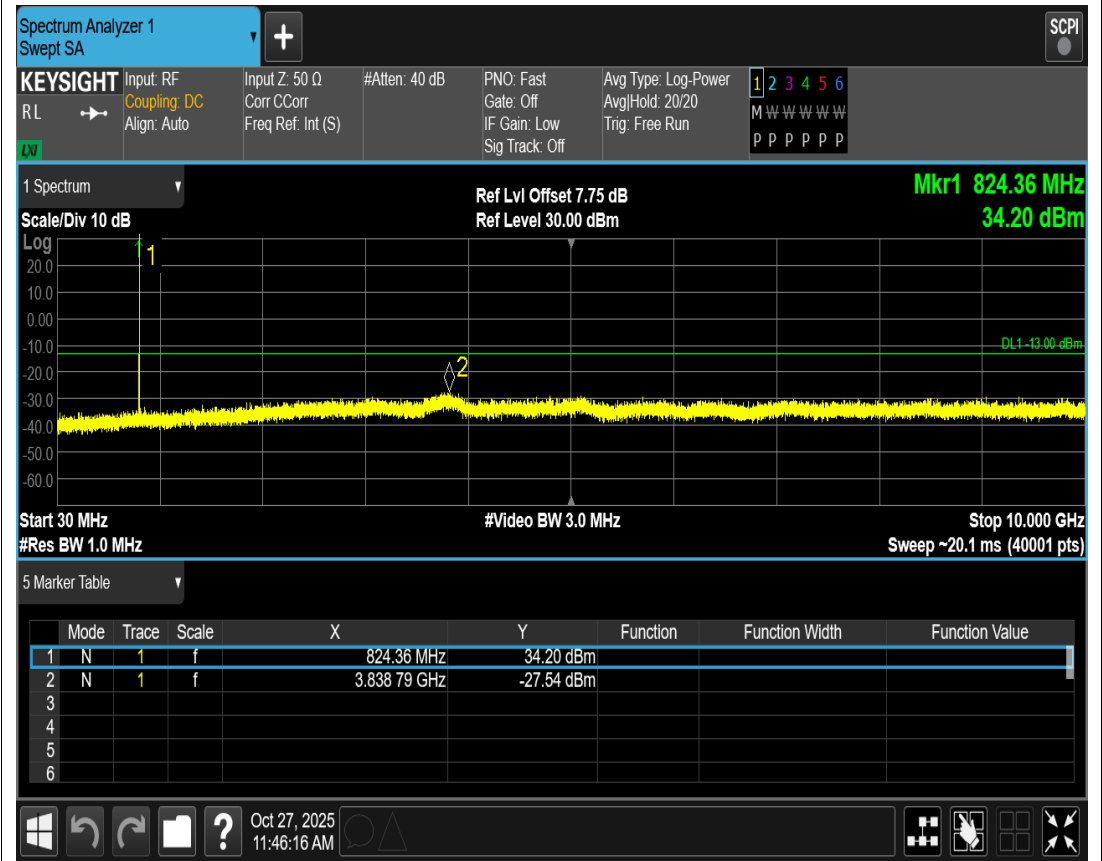
EGPRS850 Channel=128



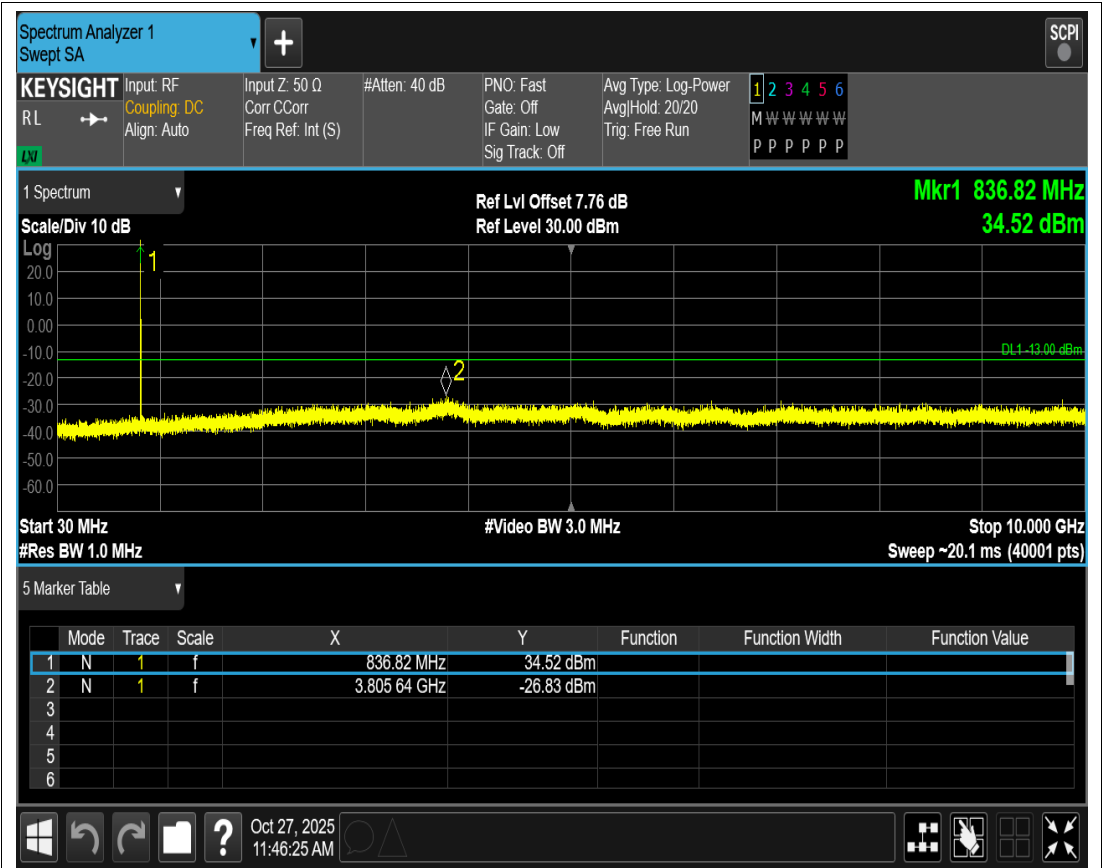
EGPRS850 Channel=190



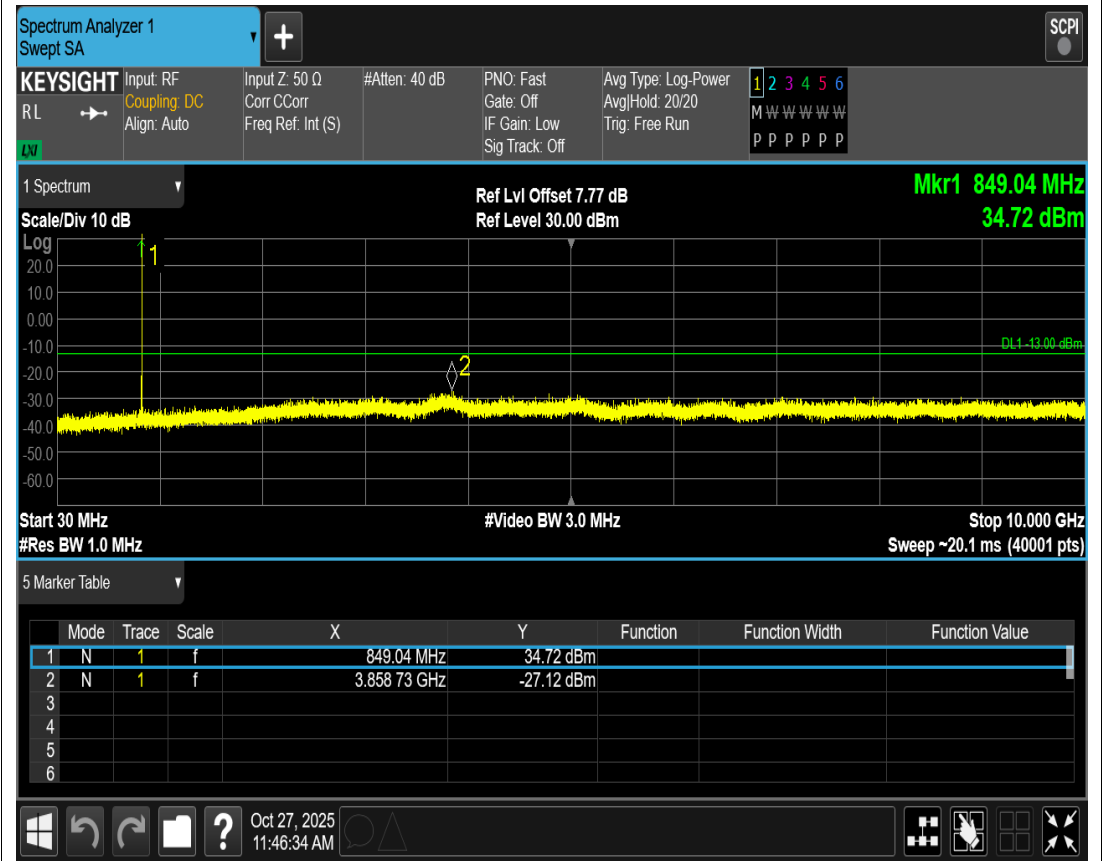
EGPRS850 Channel=251



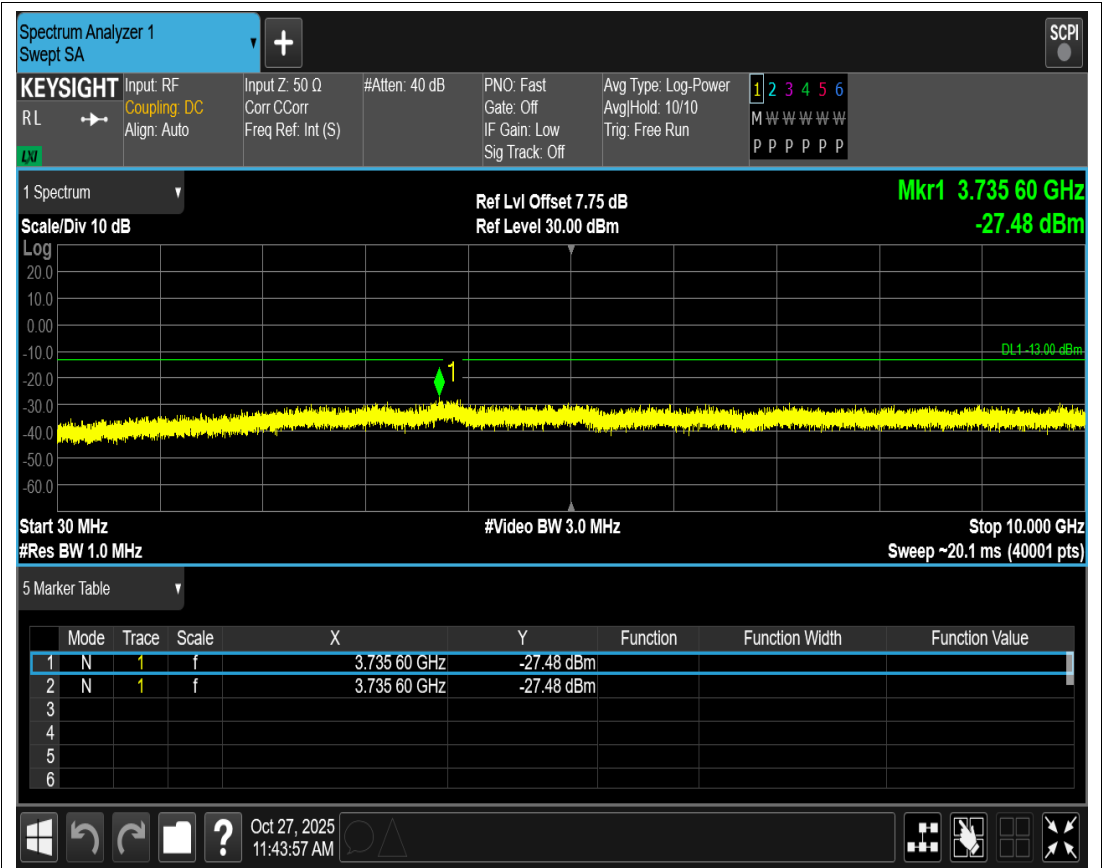
GPRS850 Channel=128



GPRS850 Channel=190



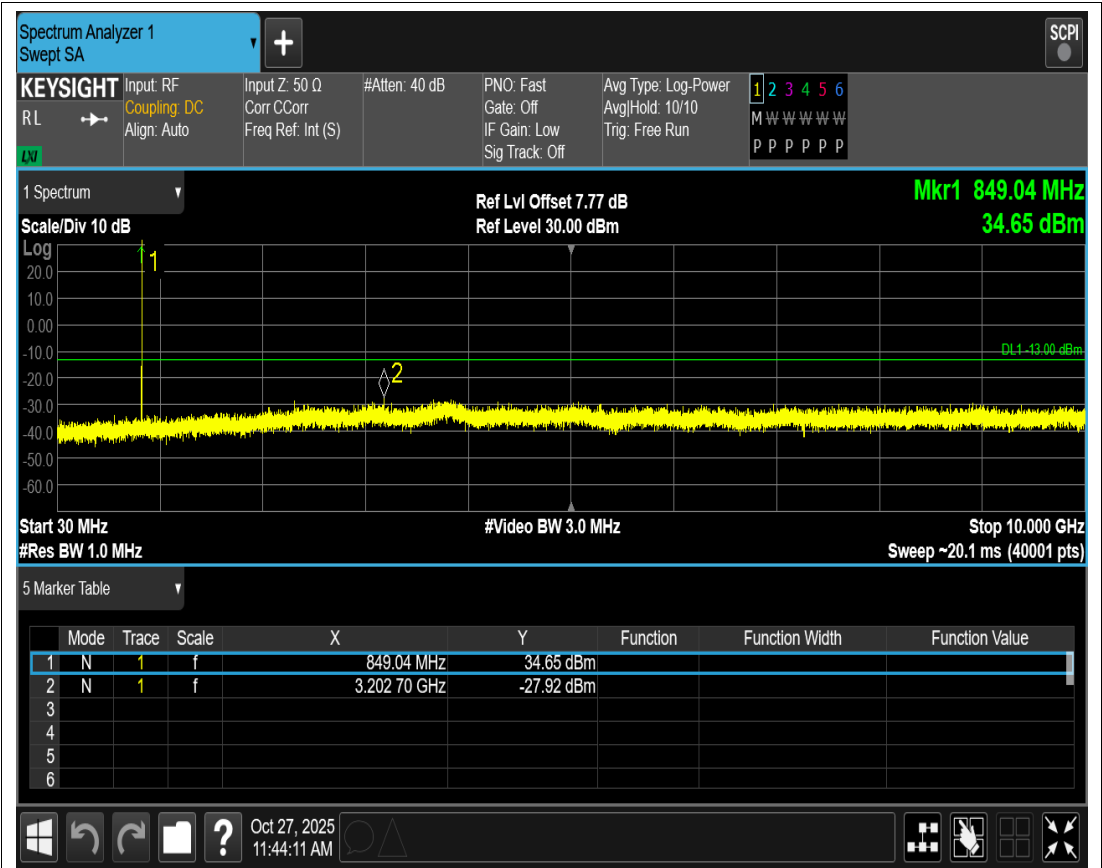
GPRS850 Channel=251



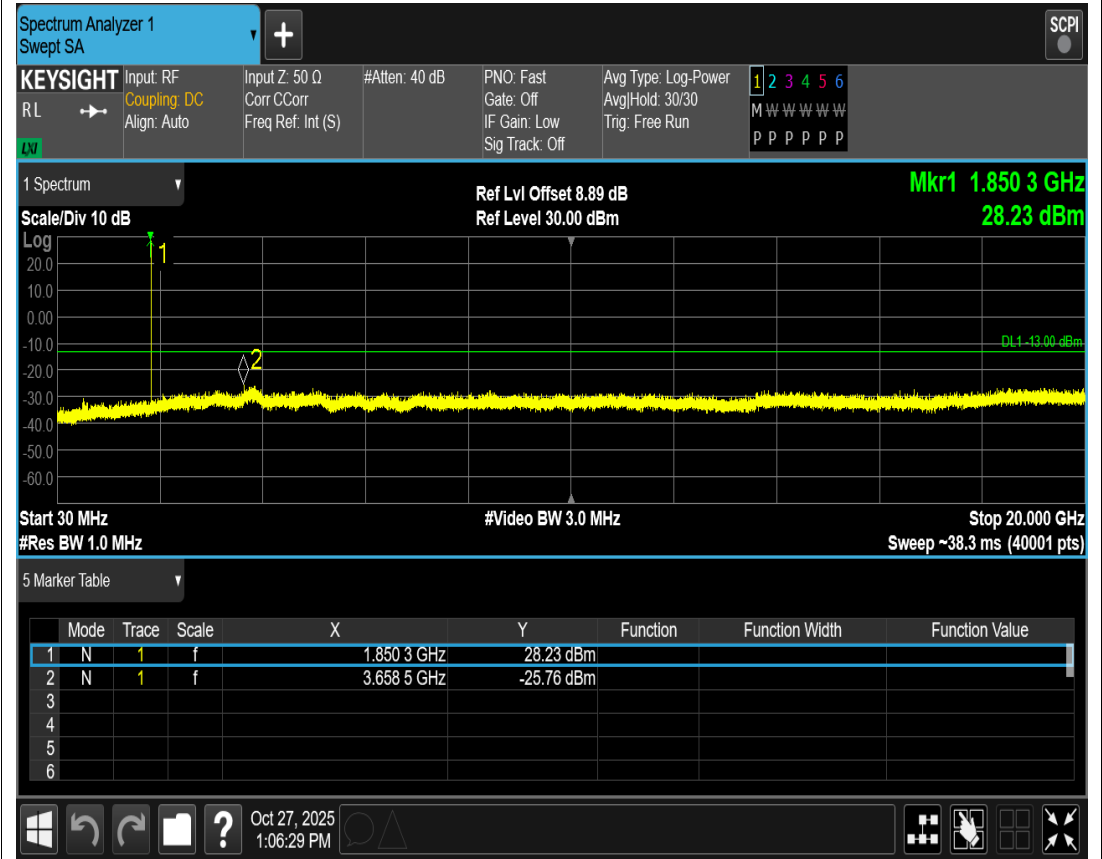
GSM850 Channel=128



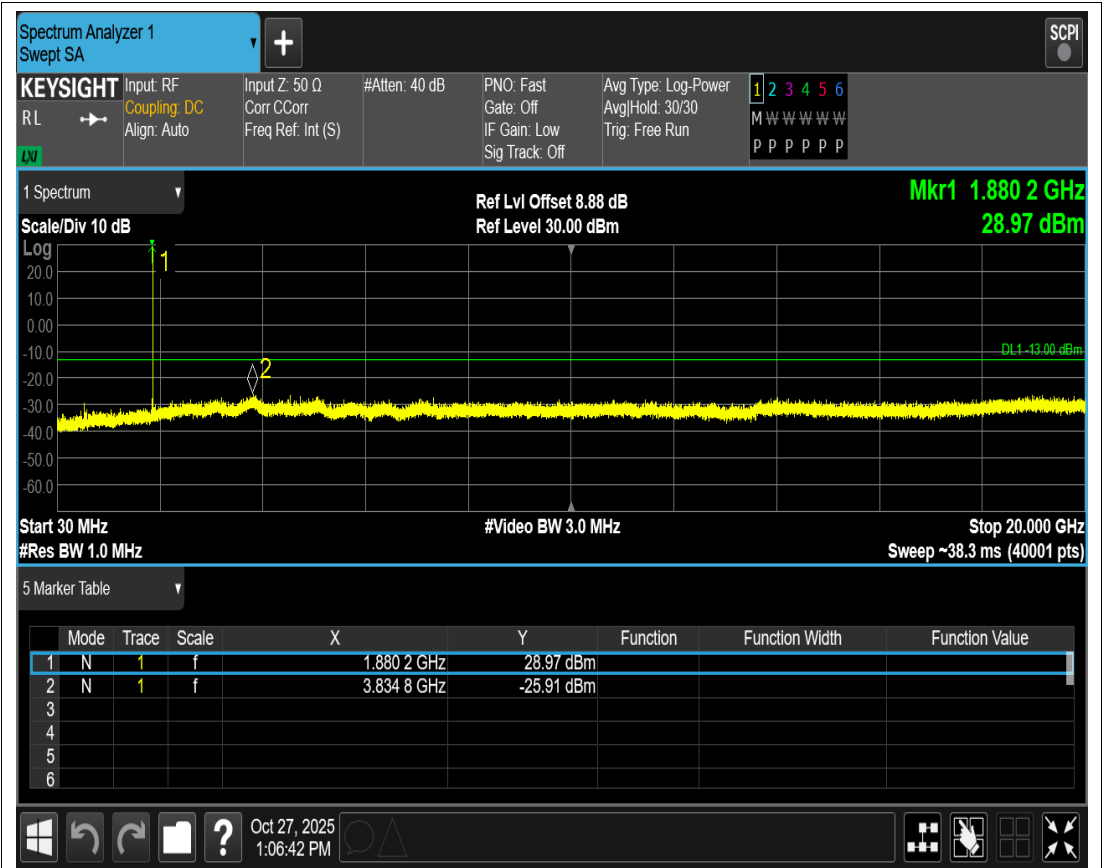
GSM850 Channel=190



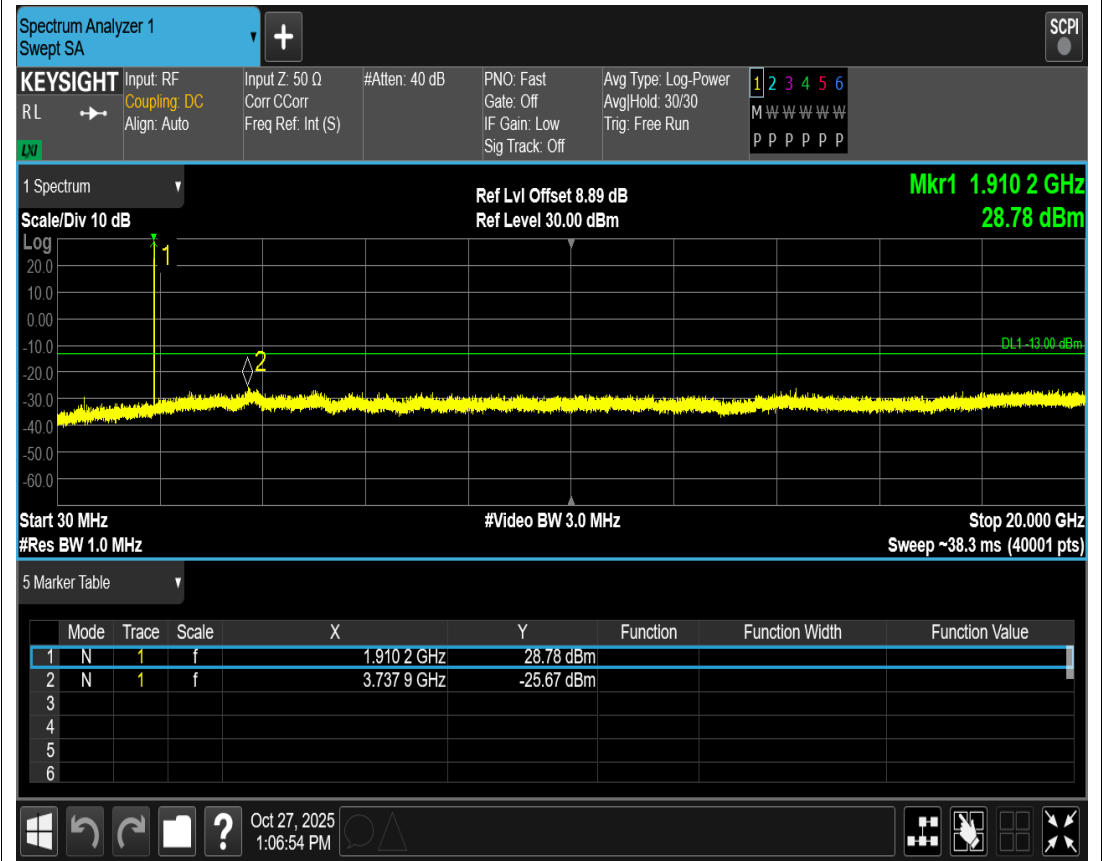
GSM850 Channel=251



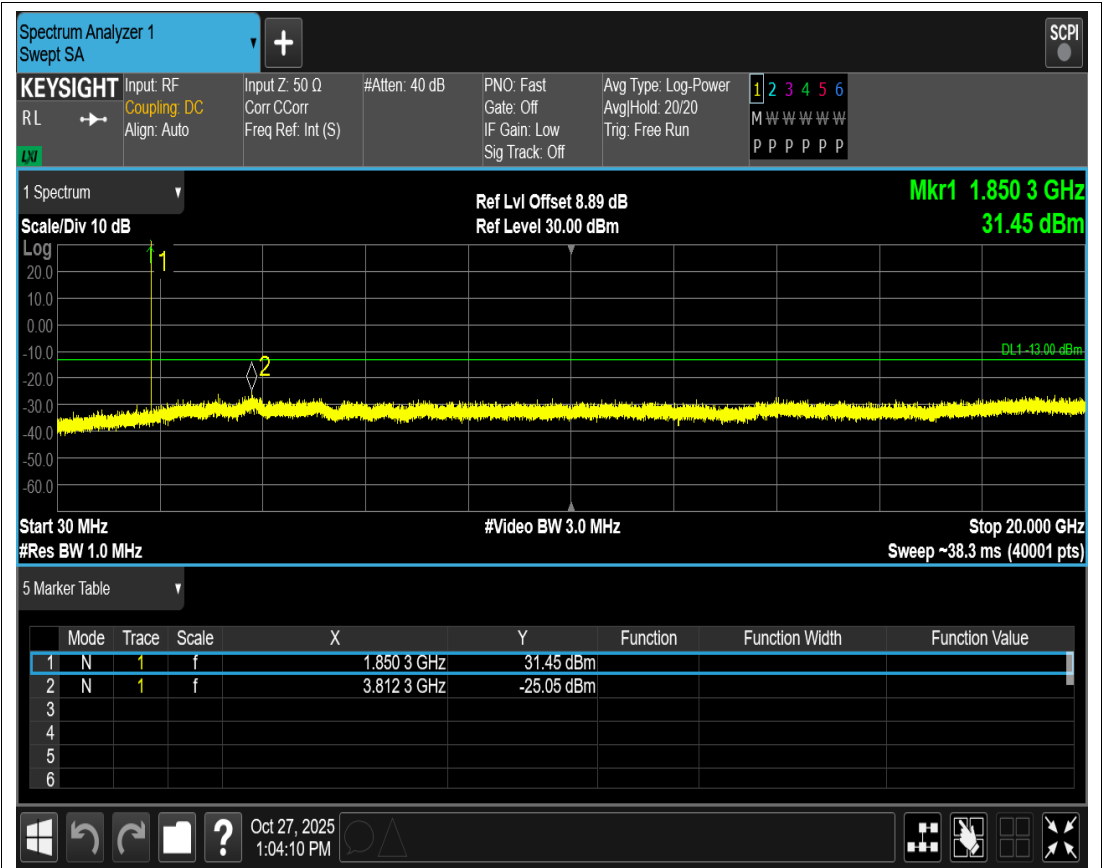
EGPRS1900 Channel=512



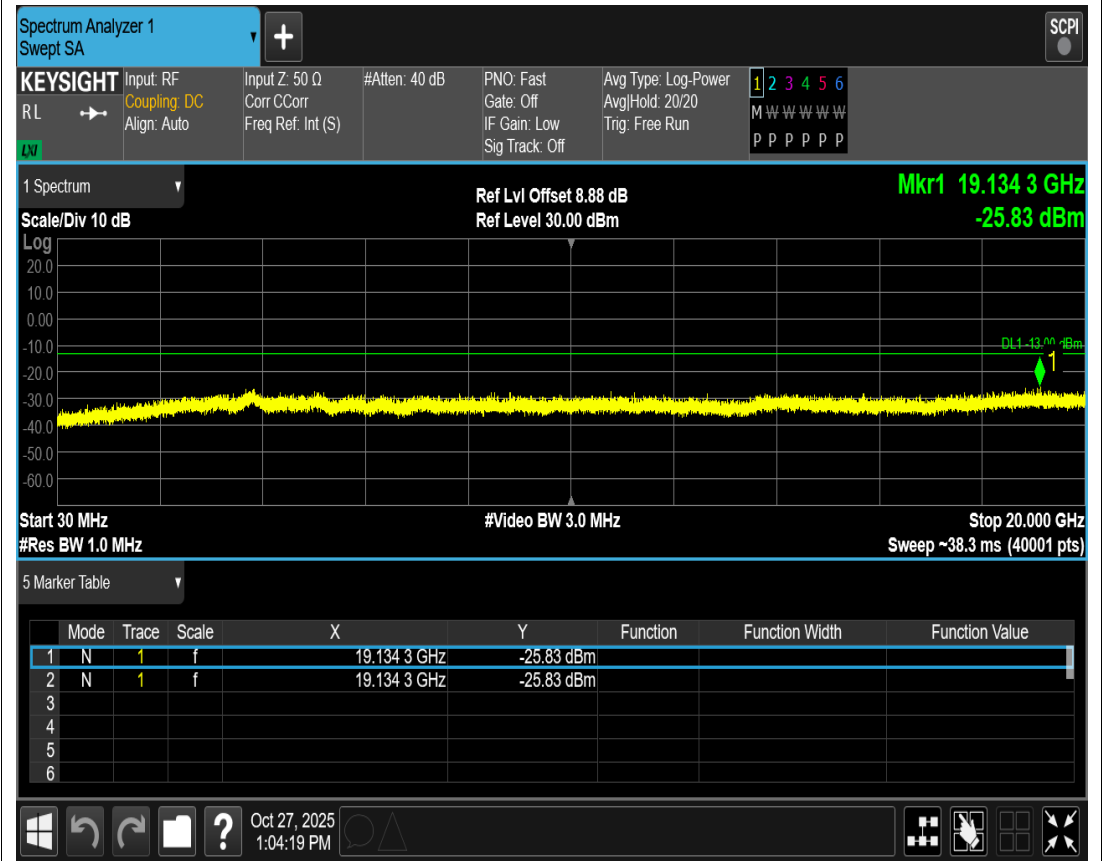
EGPRS1900 Channel=661



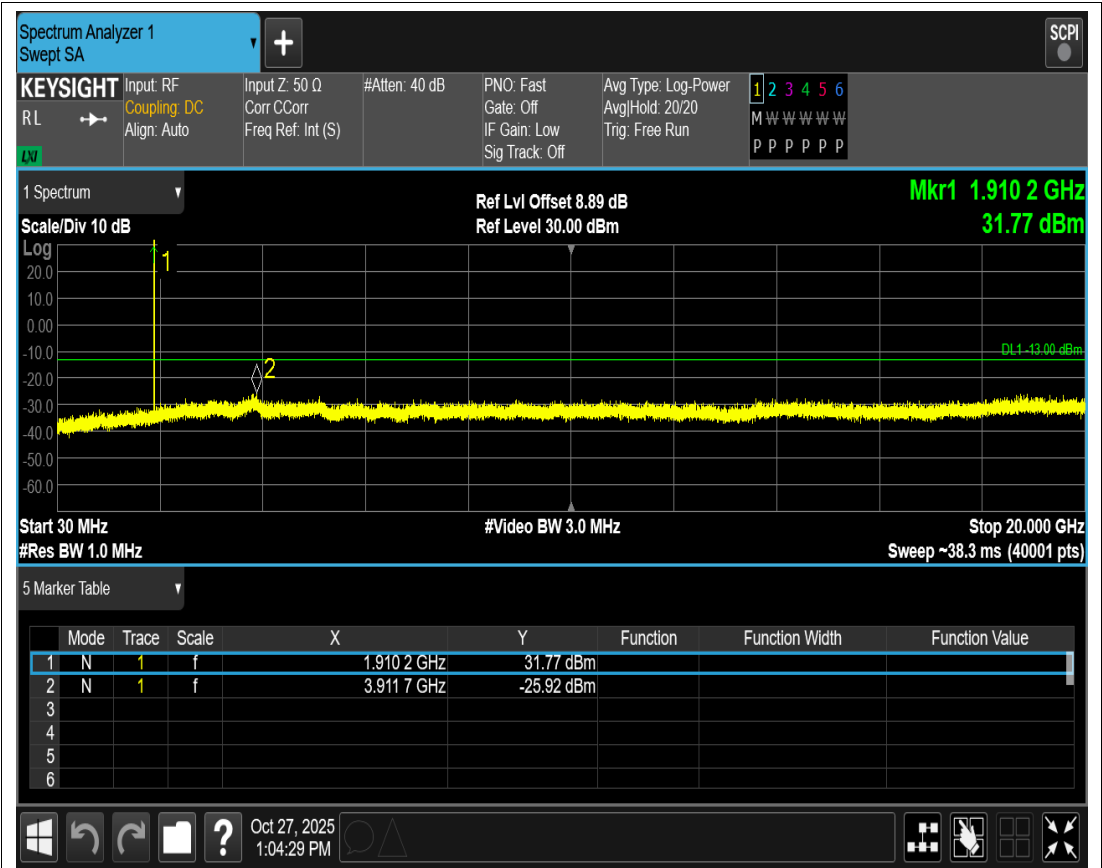
EGPRS1900 Channel=810



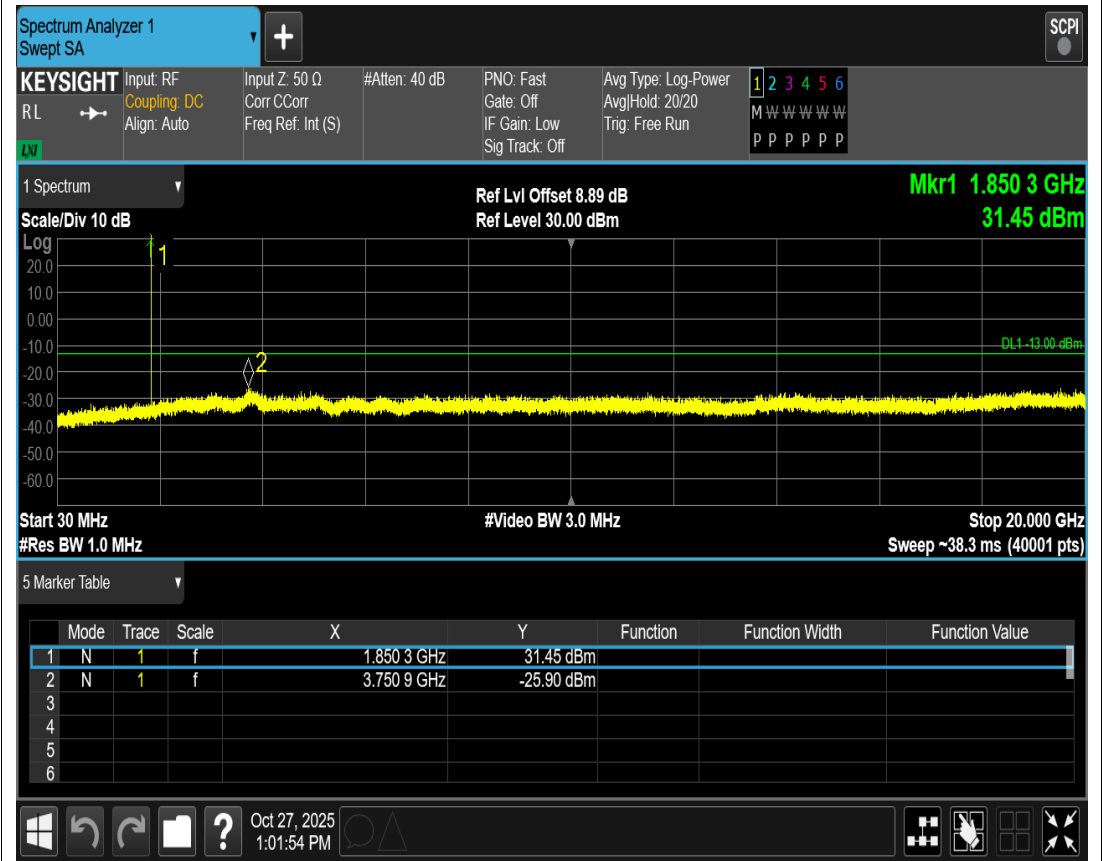
GPRS1900 Channel=512



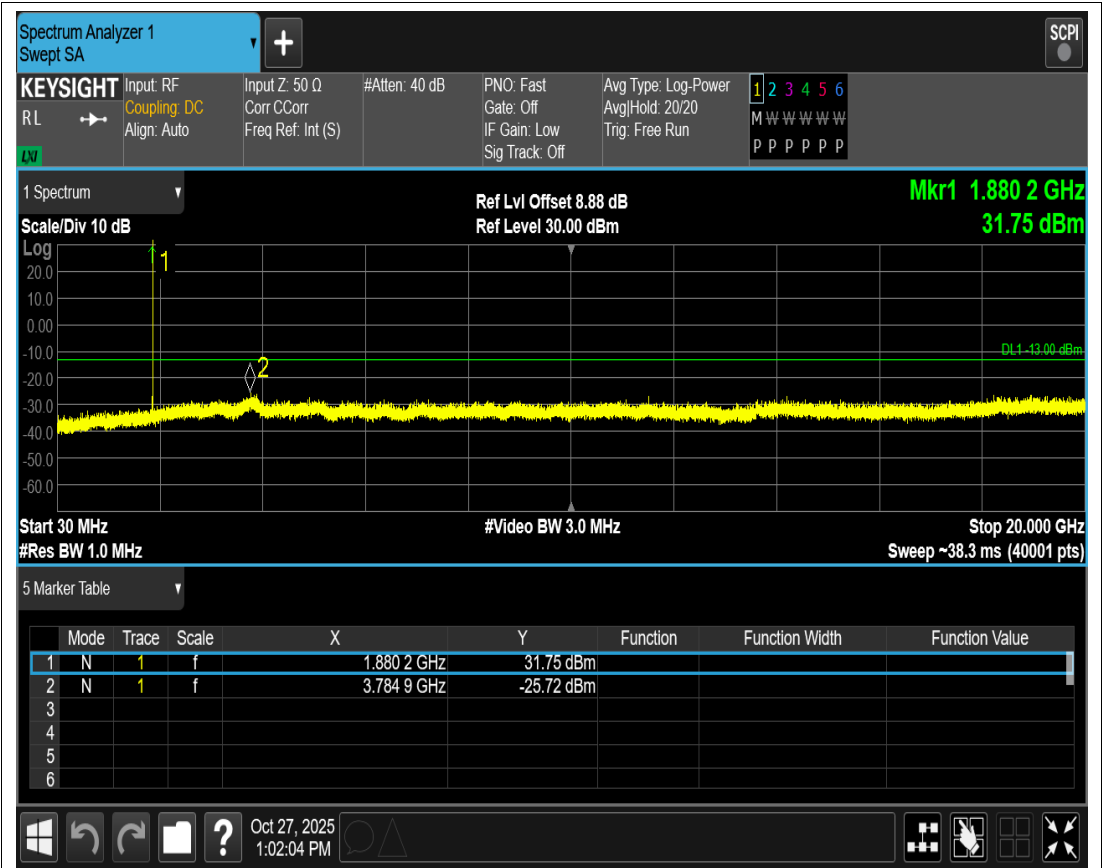
GPRS1900 Channel=661



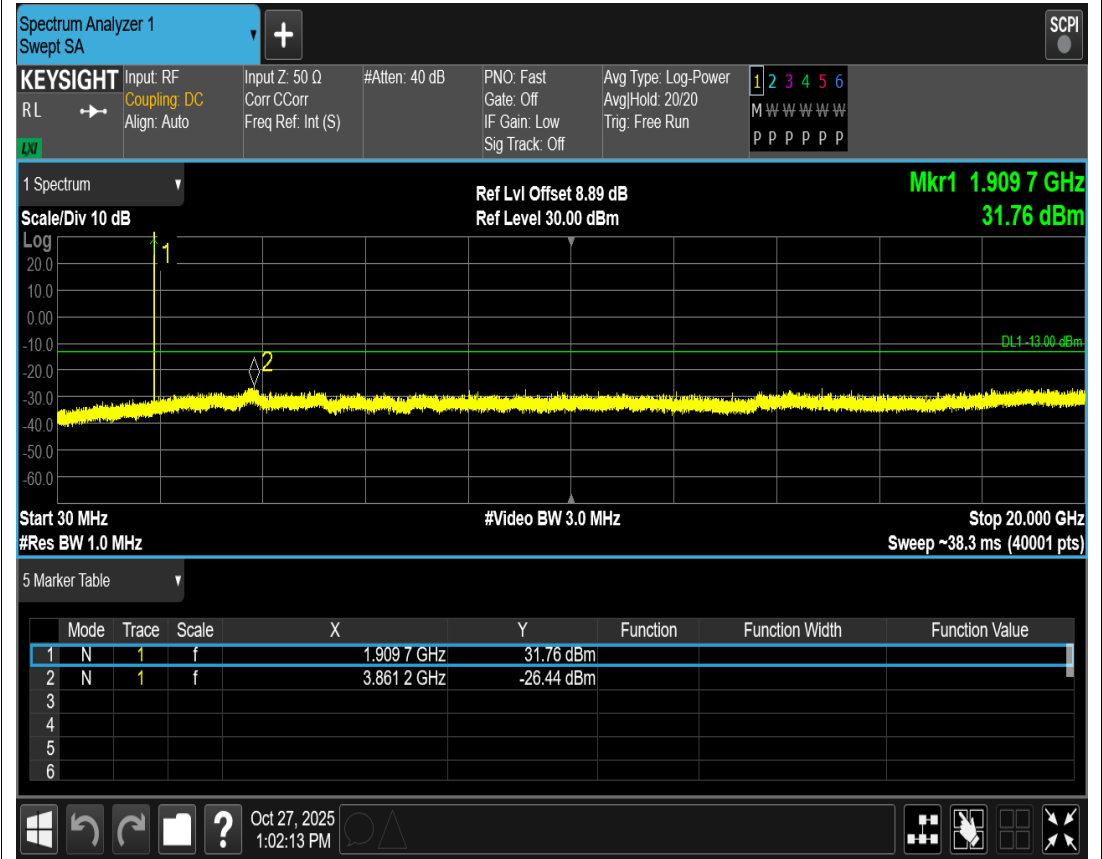
GPRS1900 Channel=810



GSM1900 Channel=512



GSM1900 Channel=661



GSM1900 Channel=810

