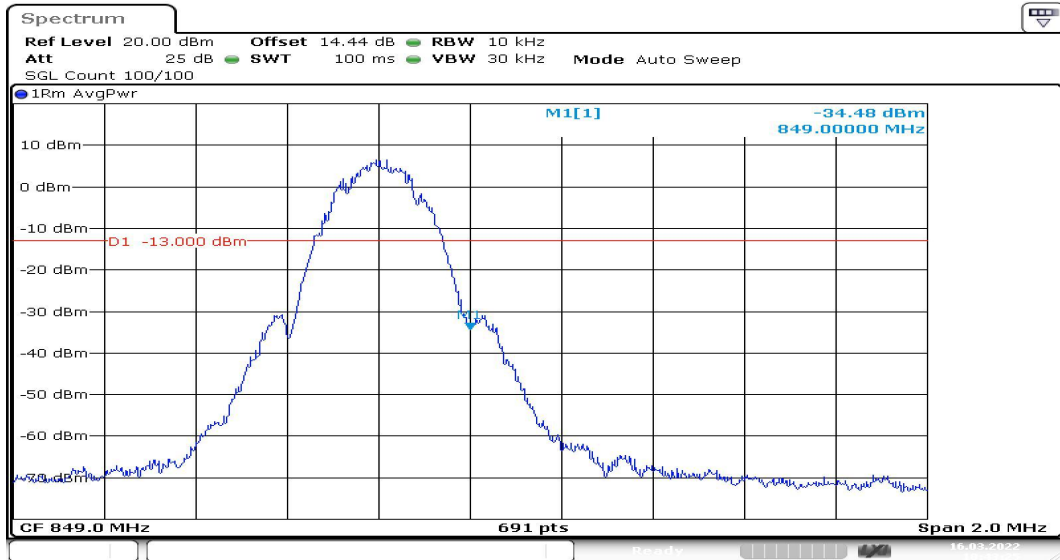
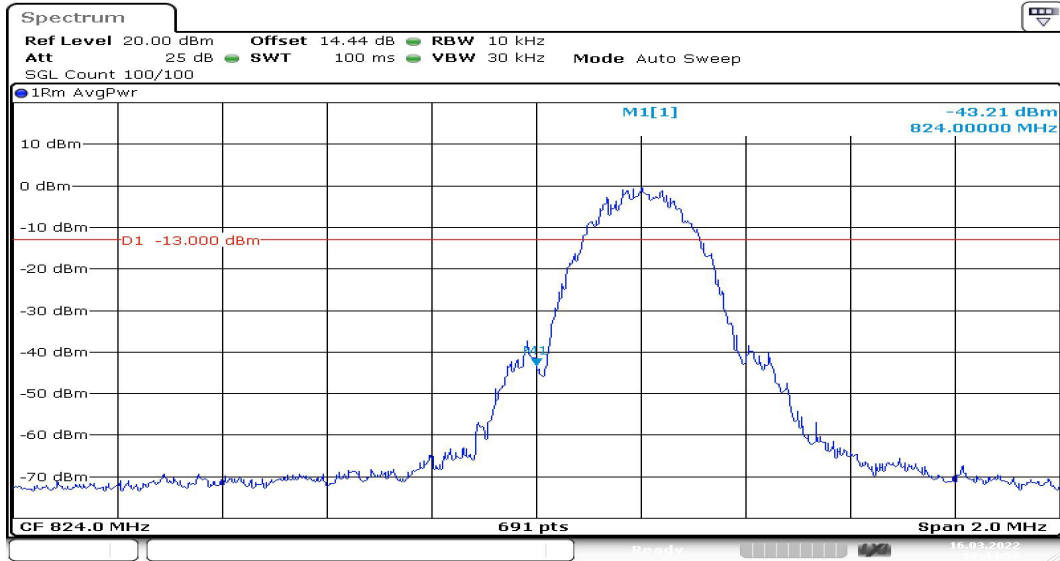


Channel 128



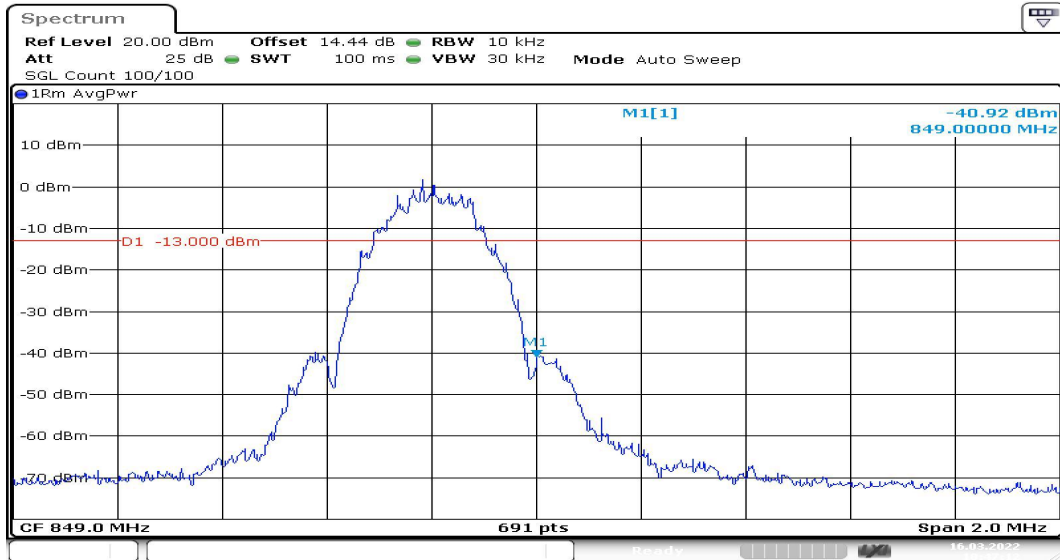
Channel 251

EGPRS (8PSK) MODE:



Date: 16.MAR.2022 10:44:57

Channel 128



Date: 16.MAR.2022 10:47:12

Channel 251

## 6. Frequency Stability

### GSM850

GSM MODE:

| Temperature(°C) | Test Result (ppm)@NV |             |             |
|-----------------|----------------------|-------------|-------------|
|                 | Channel 128          | Channel 190 | Channel 251 |
| -10             | 0.013                | 0.007       | 0.010       |
| -0              | 0.010                | 0.004       | 0.012       |
| +10             | 0.004                | 0.008       | 0.007       |
| +30             | 0.003                | 0.004       | 0.000       |
| +40             | 0.000                | -0.003      | -0.001      |
| +50             | 0.010                | 0.009       | 0.013       |
| Voltage         | Test Result (ppm)@NT |             |             |
|                 | Channel 128          | Channel 190 | Channel 251 |
| LV              | 0.010                | 0.006       | 0.011       |
| HV              | 0.012                | 0.010       | 0.007       |

GPRS MODE:

| Temperature(°C) | Test Result (ppm)@NV |             |             |
|-----------------|----------------------|-------------|-------------|
|                 | Channel 128          | Channel 190 | Channel 251 |
| -10             | -0.015               | -0.001      | -0.001      |
| -0              | -0.014               | 0.000       | -0.002      |
| +10             | -0.011               | 0.010       | 0.019       |
| +30             | 0.006                | 0.005       | 0.017       |
| +40             | 0.002                | -0.006      | 0.003       |
| +50             | -0.004               | 0.009       | 0.011       |
| Voltage         | Test Result (ppm)@NT |             |             |
|                 | Channel 128          | Channel 190 | Channel 251 |
| LV              | -0.001               | -0.004      | -0.001      |
| HV              | -0.011               | -0.004      | 0.002       |

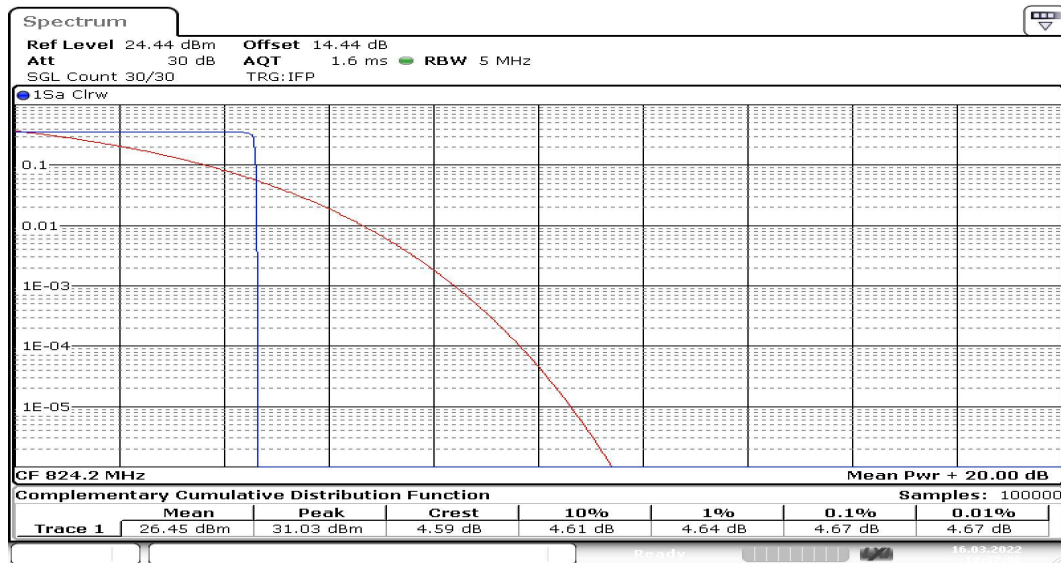
EGPRS (8PSK) MODE:

| Temperature(°C) | Test Result (ppm)@NV |             |             |
|-----------------|----------------------|-------------|-------------|
|                 | Channel 128          | Channel 190 | Channel 251 |
| -10             | -0.004               | -0.002      | 0.000       |
| -0              | -0.006               | -0.002      | 0.003       |
| +10             | -0.009               | 0.011       | 0.022       |
| +30             | 0.011                | 0.014       | 0.019       |
| +40             | 0.009                | 0.005       | 0.007       |
| +50             | -0.009               | 0.016       | 0.011       |
| Voltage         | Test Result (ppm)@NT |             |             |
|                 | Channel 128          | Channel 190 | Channel 251 |
| LV              | 0.005                | -0.002      | 0.004       |
| HV              | -0.001               | 0.003       | 0.001       |

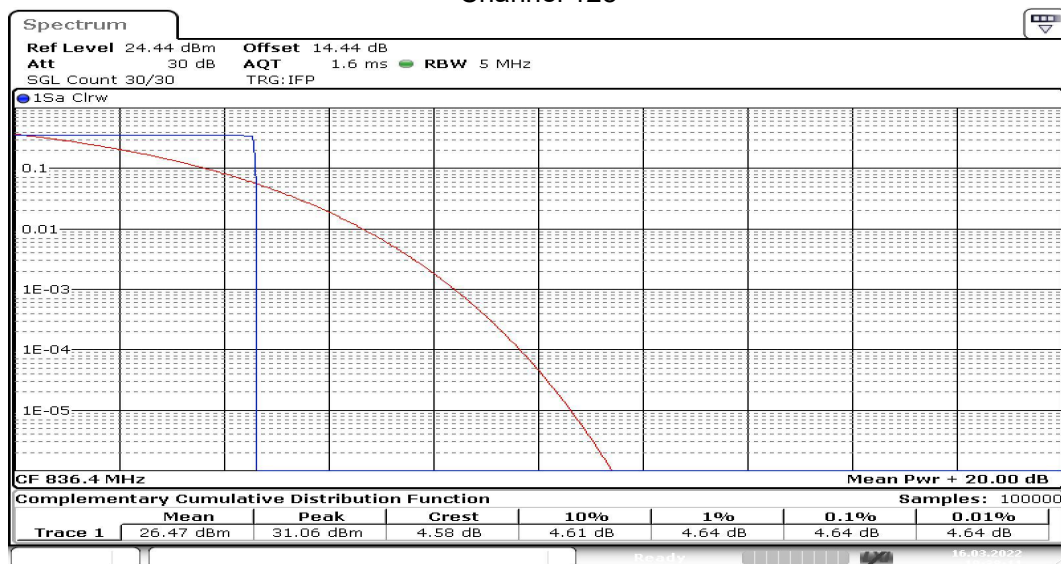
**7. Peak-Average Ratio**

**GSM850**

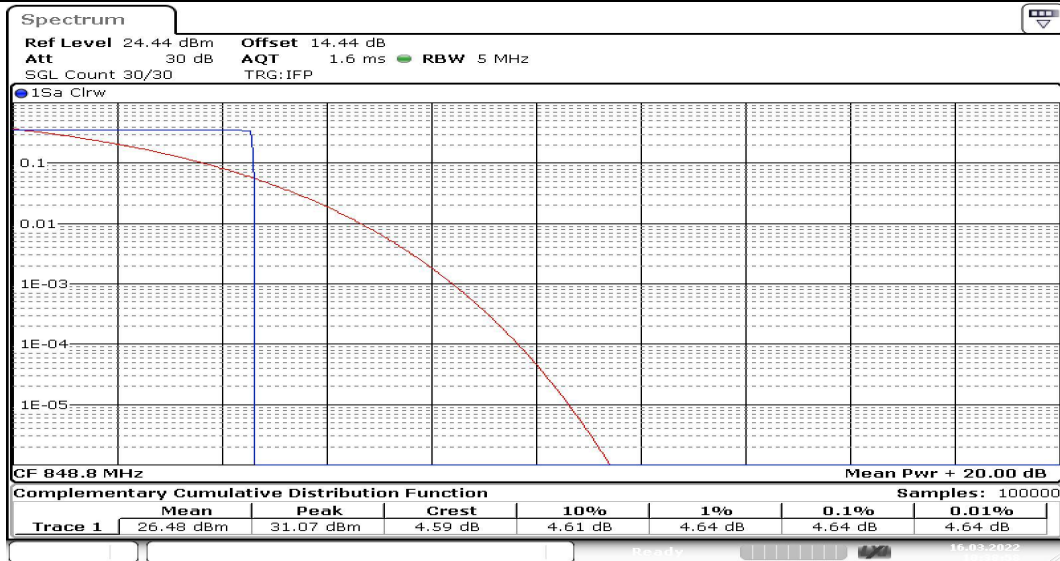
GSM MODE:



Channel 128



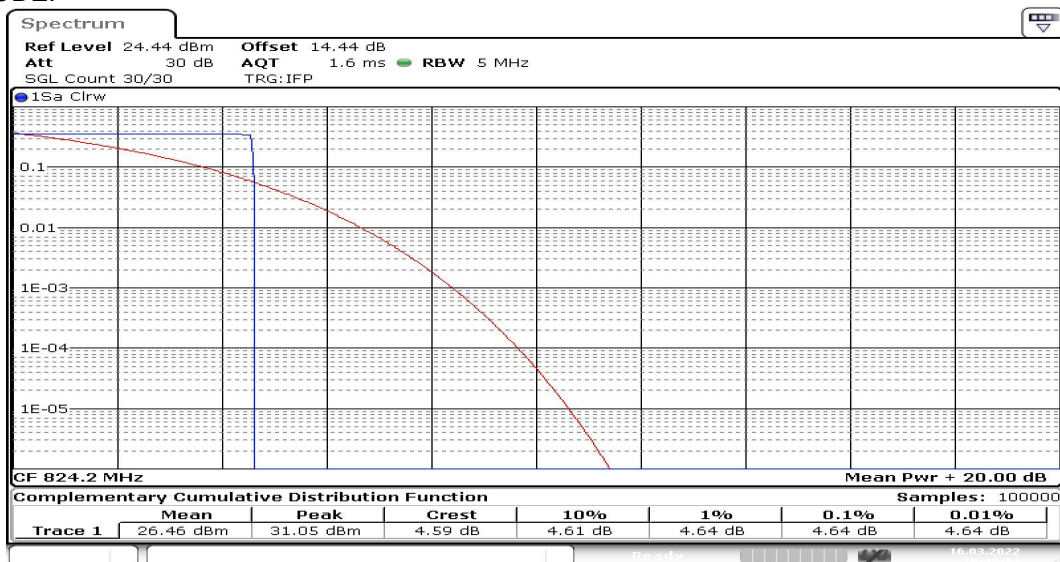
Channel 189



Date: 16.MAR.2022 10:38:58

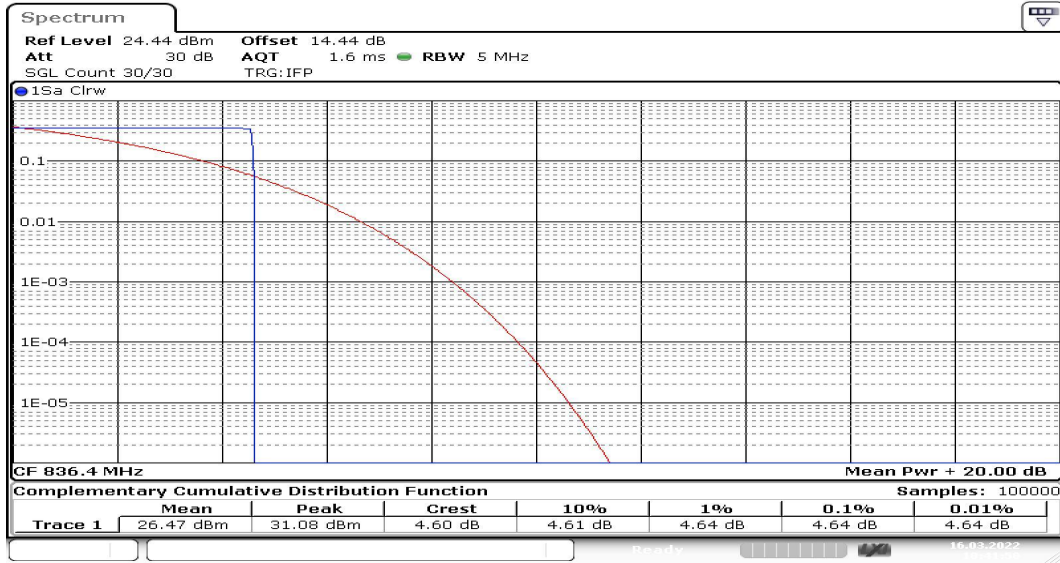
Channel 251

GPRS MODE:



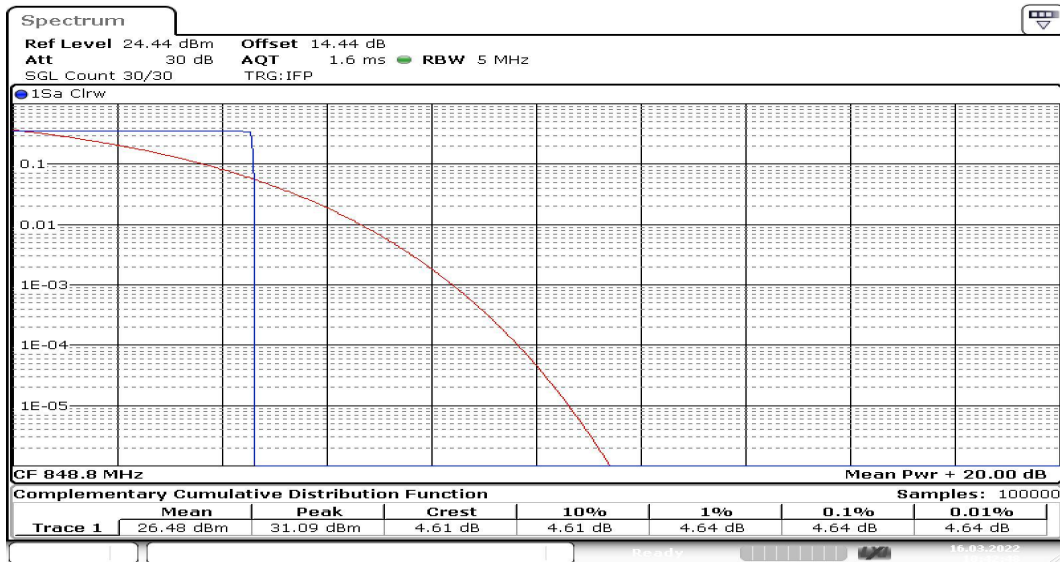
Date: 16.MAR.2022 10:40:34

Channel 128



Date: 16.MAR.2022 10:41:50

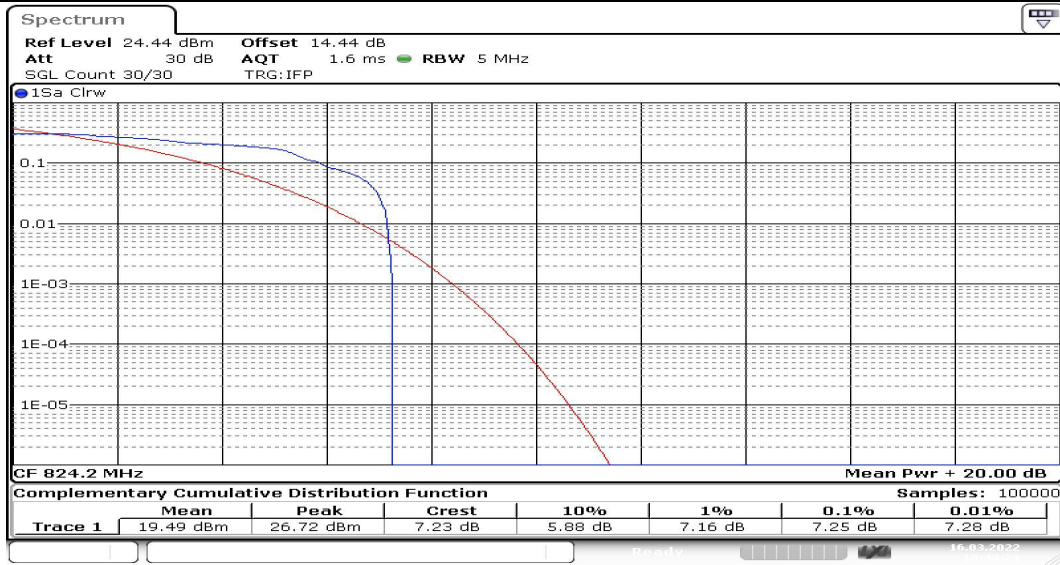
Channel 189



Date: 16.MAR.2022 10:42:48

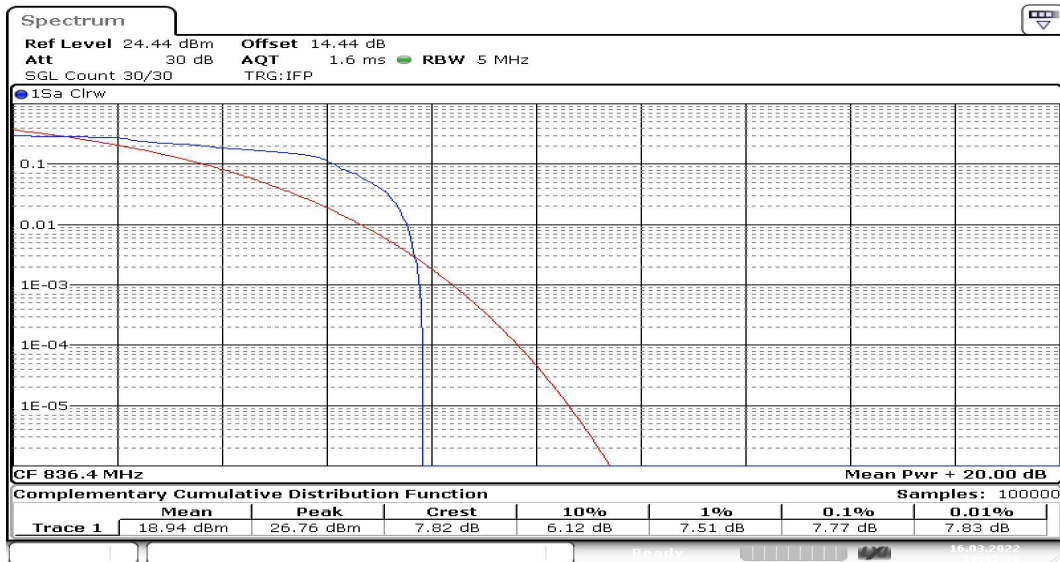
Channel 251

EGPRS (8PSK) MODE:



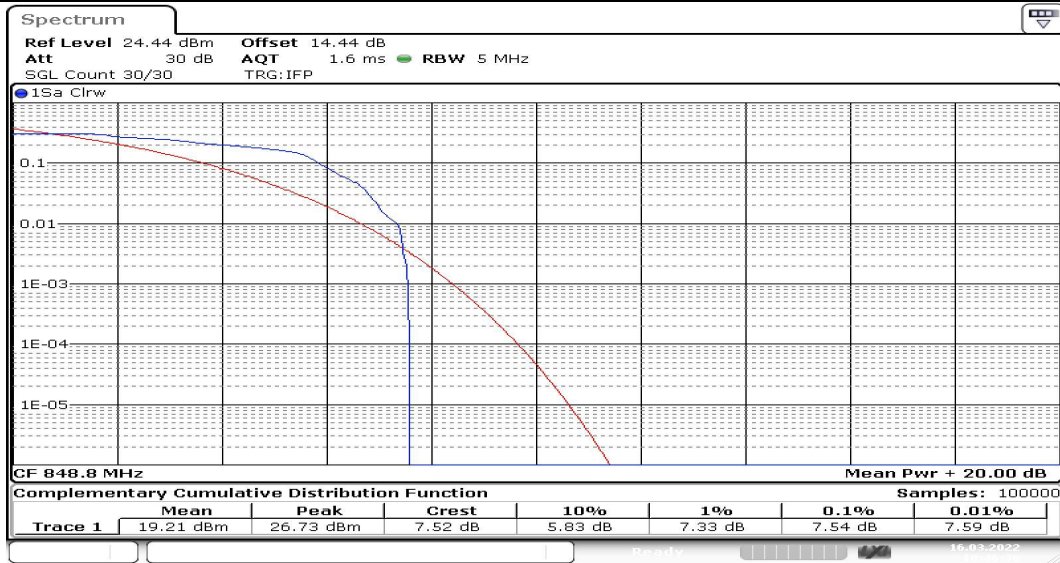
Date: 16.MAR.2022 10:44:21

Channel 128



Date: 16.MAR.2022 10:45:37

Channel 189



Date: 16.MAR.2022 10:46:35

Channel 251



## 8. Effective Radiated Power and Effective Isotropic Radiated Power

### GSM850

GSM Measured Power:

| Carrier frequency (MHz) | Channel No. | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------------------------|-------------|-----------------------|----------------|--------------|
| 824.2                   | 128         | 29.18                 | 24.48          | 0.281        |
| 836.4                   | 189         | 29.14                 | 24.44          | 0.278        |
| 848.8                   | 251         | 29.11                 | 24.41          | 0.276        |

GPRS Measured Power:

| Carrier frequency (MHz) | Channel No. | TX Mode  | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------------------------|-------------|----------|-----------------------|----------------|--------------|
| 824.2                   | 128         | 4Down1Up | 29.21                 | 24.51          | 0.282        |
| 836.4                   | 189         |          | 29.17                 | 24.47          | 0.280        |
| 848.8                   | 251         |          | 29.13                 | 24.43          | 0.277        |
| 824.2                   | 128         | 3Down2Up | 27.11                 | 22.41          | 0.174        |
| 836.4                   | 189         |          | 27.06                 | 22.36          | 0.172        |
| 848.8                   | 251         |          | 26.98                 | 22.28          | 0.169        |
| 824.2                   | 128         | 2Down3Up | 24.94                 | 20.24          | 0.106        |
| 836.4                   | 189         |          | 24.88                 | 20.18          | 0.104        |
| 848.8                   | 251         |          | 24.81                 | 20.11          | 0.103        |
| 824.2                   | 128         | 1Down4Up | 22.73                 | 18.03          | 0.064        |
| 836.4                   | 189         |          | 22.70                 | 18.00          | 0.063        |
| 848.8                   | 251         |          | 22.65                 | 17.95          | 0.062        |

EGPRS (8PSK) Measured Power:

| Carrier frequency (MHz) | Channel No. | TX Mode  | Conducted Power (dBm) | ERP/EIRP (dBm) | ERP/EIRP (W) |
|-------------------------|-------------|----------|-----------------------|----------------|--------------|
| 824.2                   | 128         | 4Down1Up | 22.05                 | 17.35          | 0.054        |
| 836.4                   | 189         |          | 22.13                 | 17.43          | 0.055        |
| 848.8                   | 251         |          | 21.95                 | 17.25          | 0.053        |
| 824.2                   | 128         | 3Down2Up | 20.86                 | 16.16          | 0.041        |
| 836.4                   | 189         |          | 20.94                 | 16.24          | 0.042        |
| 848.8                   | 251         |          | 20.72                 | 16.02          | 0.040        |
| 824.2                   | 128         | 2Down3Up | 20.50                 | 15.80          | 0.038        |
| 836.4                   | 189         |          | 19.91                 | 15.21          | 0.033        |
| 848.8                   | 251         |          | 20.40                 | 15.70          | 0.037        |
| 824.2                   | 128         | 1Down4Up | 18.14                 | 13.44          | 0.022        |
| 836.4                   | 189         |          | 18.75                 | 14.05          | 0.025        |
| 848.8                   | 251         |          | 17.44                 | 12.74          | 0.019        |

**GSM1900**

**1. RF Power Output**

**PCS1900**

GSM Measured Power:

| Carrier frequency (MHz) | Channel No. | RF Power Output (dBm) |
|-------------------------|-------------|-----------------------|
| 1850.2                  | 512         | 26.02                 |
| 1880                    | 661         | 26.02                 |
| 1909.8                  | 810         | 26.07                 |

GPRS Measured Power:

| Carrier frequency (MHz) | Channel No. | TX Mode  | RF Power Output (dBm) |
|-------------------------|-------------|----------|-----------------------|
| 1850.2                  | 512         | 4Down1Up | 26.01                 |
| 1880                    | 661         |          | 26.01                 |
| 1909.8                  | 810         |          | 26.07                 |
| 1850.2                  | 512         | 3Down2Up | 23.31                 |
| 1880                    | 661         |          | 23.06                 |
| 1909.8                  | 810         |          | 22.97                 |
| 1850.2                  | 512         | 2Down3Up | 21.73                 |
| 1880                    | 661         |          | 21.49                 |
| 1909.8                  | 810         |          | 21.40                 |
| 1850.2                  | 512         | 1Down4Up | 19.65                 |
| 1880                    | 661         |          | 19.41                 |
| 1909.8                  | 810         |          | 19.29                 |

EGPRS (8PSK) Measured Power:

| Carrier frequency (MHz) | Channel No. | TX Mode  | RF Power Output (dBm) |
|-------------------------|-------------|----------|-----------------------|
| 1850.2                  | 512         | 4Down1Up | 21.71                 |
| 1880                    | 661         |          | 21.75                 |
| 1909.8                  | 810         |          | 21.26                 |
| 1850.2                  | 512         | 3Down2Up | 19.86                 |
| 1880                    | 661         |          | 19.70                 |
| 1909.8                  | 810         |          | 19.11                 |
| 1850.2                  | 512         | 2Down3Up | 17.03                 |
| 1880                    | 661         |          | 17.45                 |
| 1909.8                  | 810         |          | 16.77                 |
| 1850.2                  | 512         | 1Down4Up | 16.50                 |
| 1880                    | 661         |          | 15.58                 |
| 1909.8                  | 810         |          | 16.04                 |

**2. Occupied Bandwidth**

**PCS1900**

GSM MODE:

| Carrier frequency (MHz) | Channel No. | Bandwidth of 99% Power (kHz) |
|-------------------------|-------------|------------------------------|
| 1850.2                  | 512         | 251.81                       |
| 1880                    | 661         | 250.36                       |
| 1909.8                  | 810         | 247.47                       |

GPRS MODE:

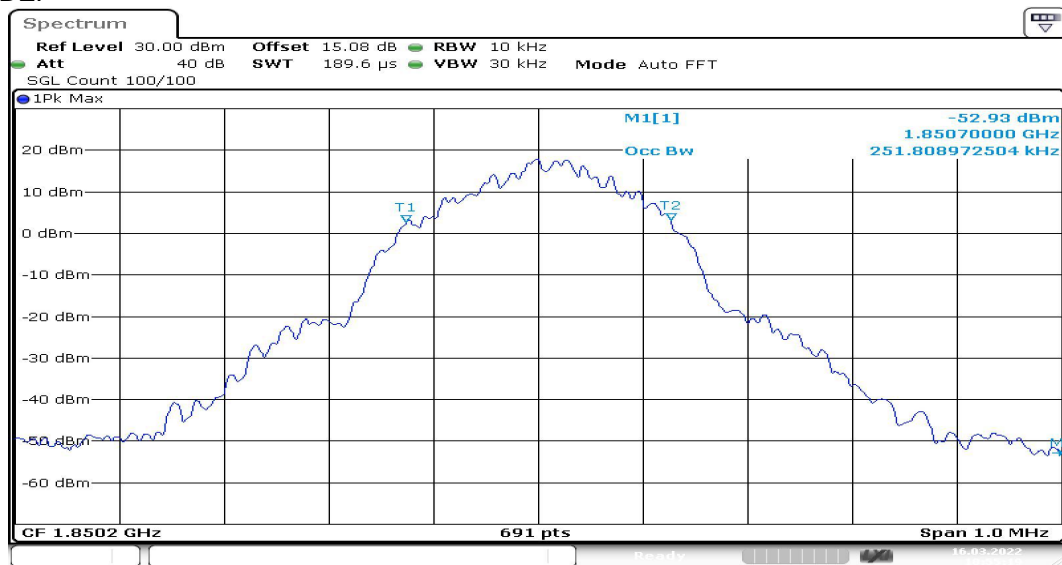
| Carrier frequency (MHz) | Channel No. | Bandwidth of 99% Power (kHz) |
|-------------------------|-------------|------------------------------|
| 1850.2                  | 512         | 247.47                       |
| 1880                    | 661         | 241.68                       |
| 1909.8                  | 810         | 250.36                       |

EGPRS (8PSK) MODE:

| Carrier frequency (MHz) | Channel No. | Bandwidth of 99% Power (kHz) |
|-------------------------|-------------|------------------------------|
| 1850.2                  | 512         | 243.13                       |
| 1880                    | 661         | 244.57                       |
| 1909.8                  | 810         | 234.44                       |

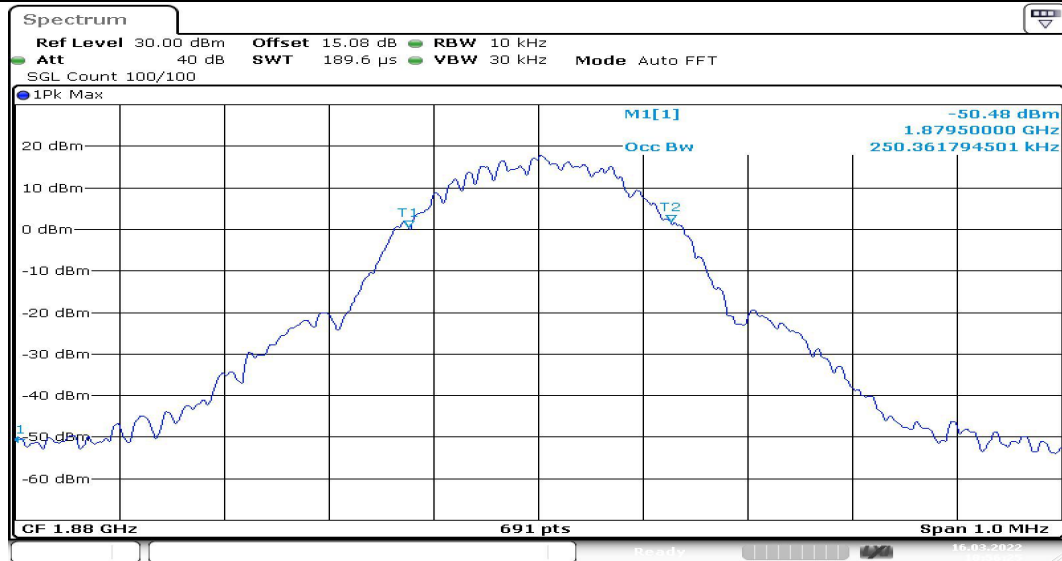
**PCS1900**

GSM MODE:

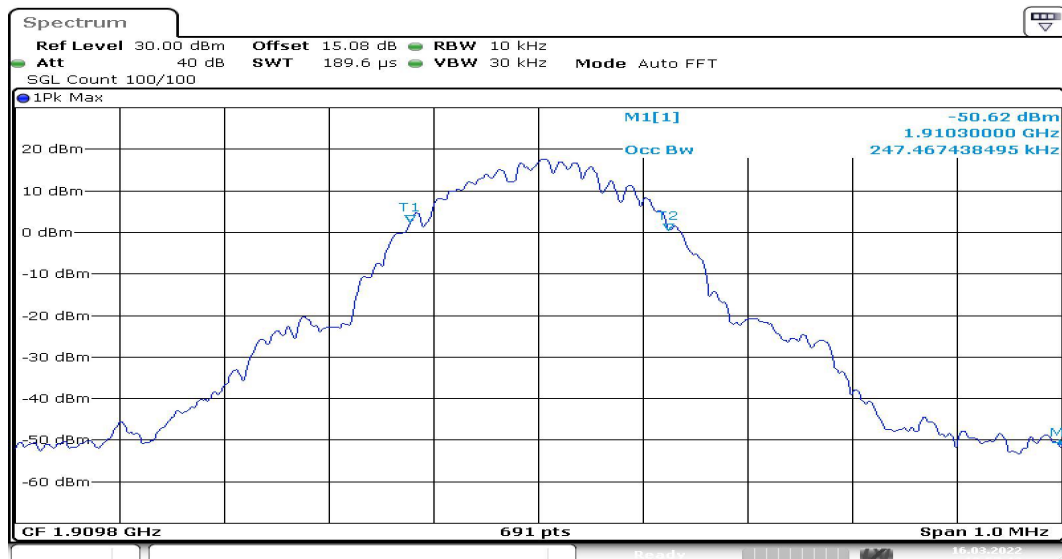


Date: 16.MAR.2022 10:55:18

Channel 512

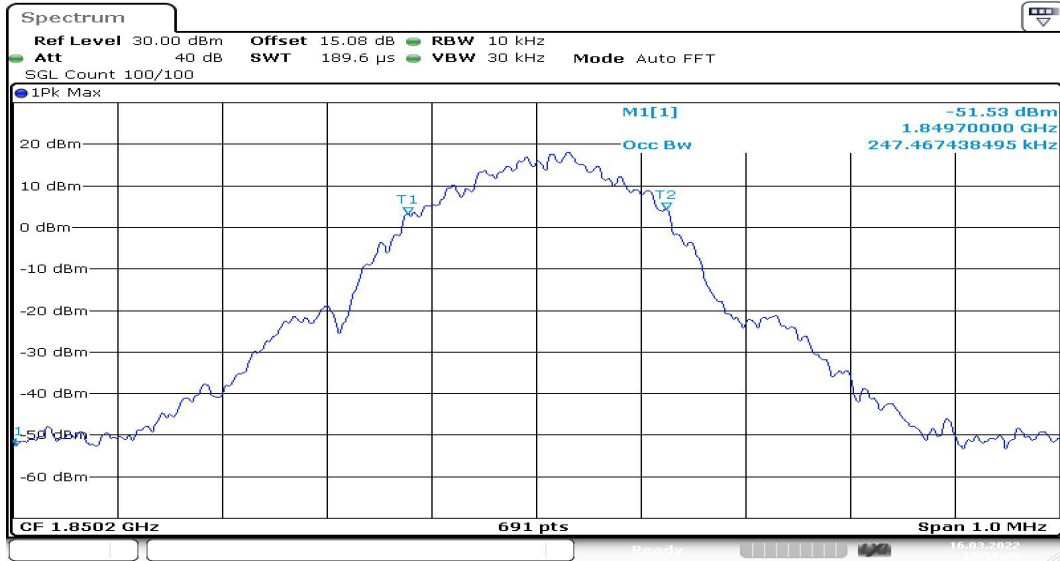


Channel 661

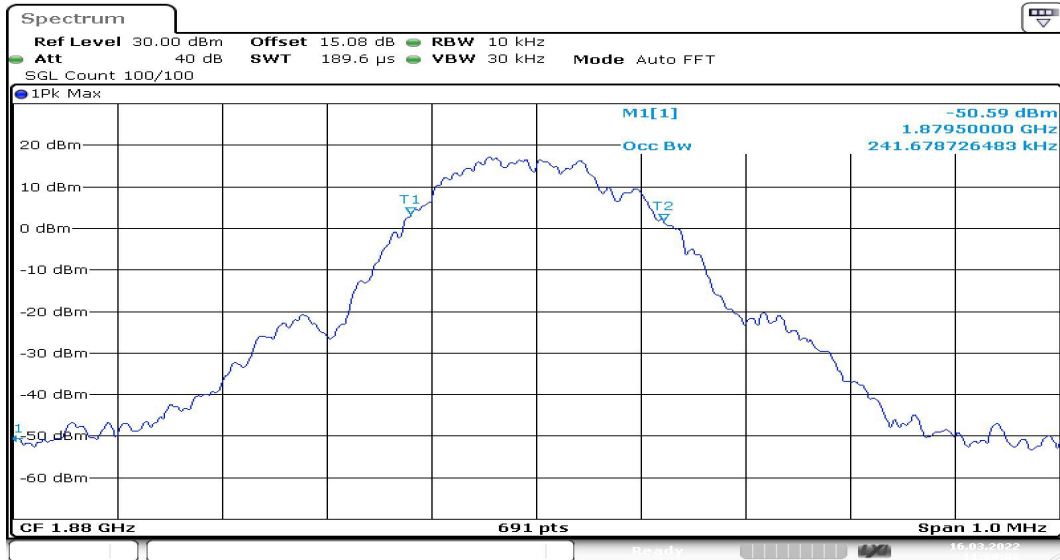


Channel 810

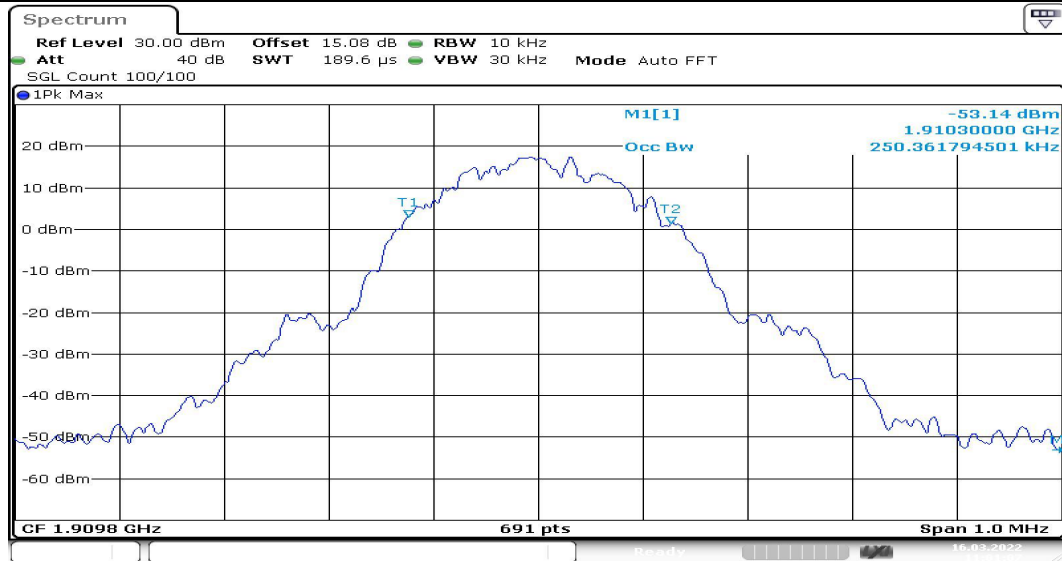
GPRS MODE:



Channel 512



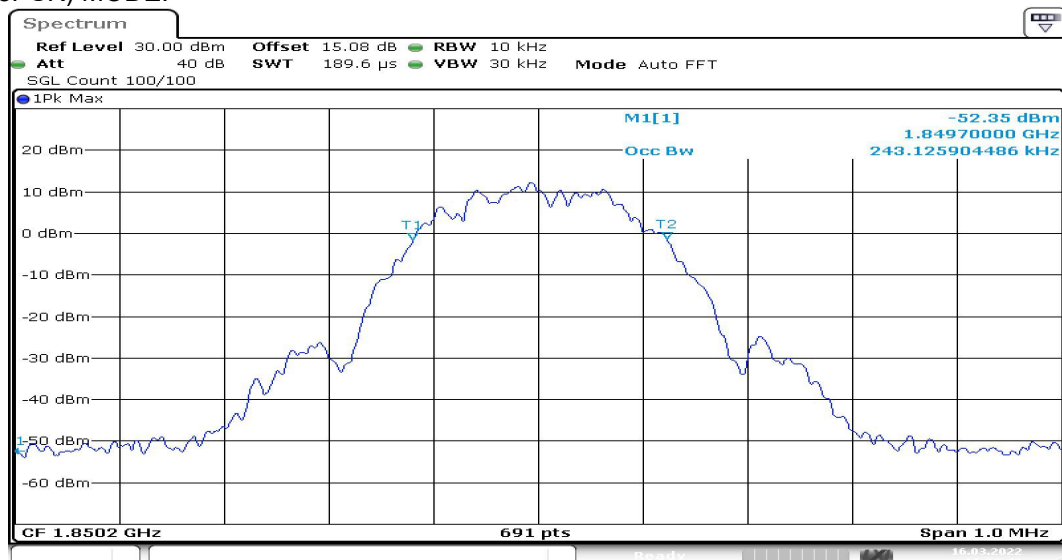
Channel 661



Date: 16.MAR.2022 11:01:07

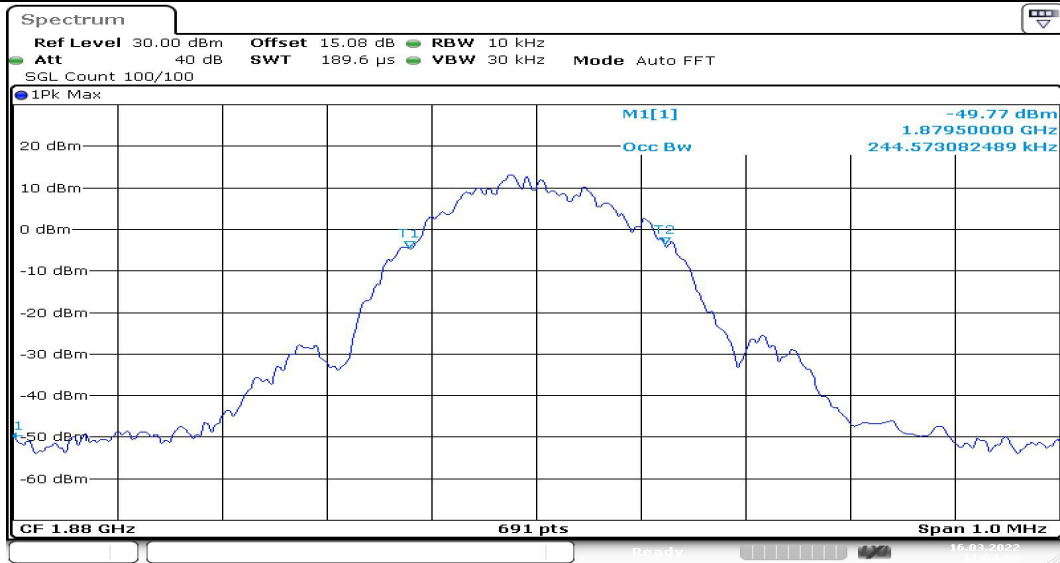
Channel 810

EGPRS (8PSK) MODE:

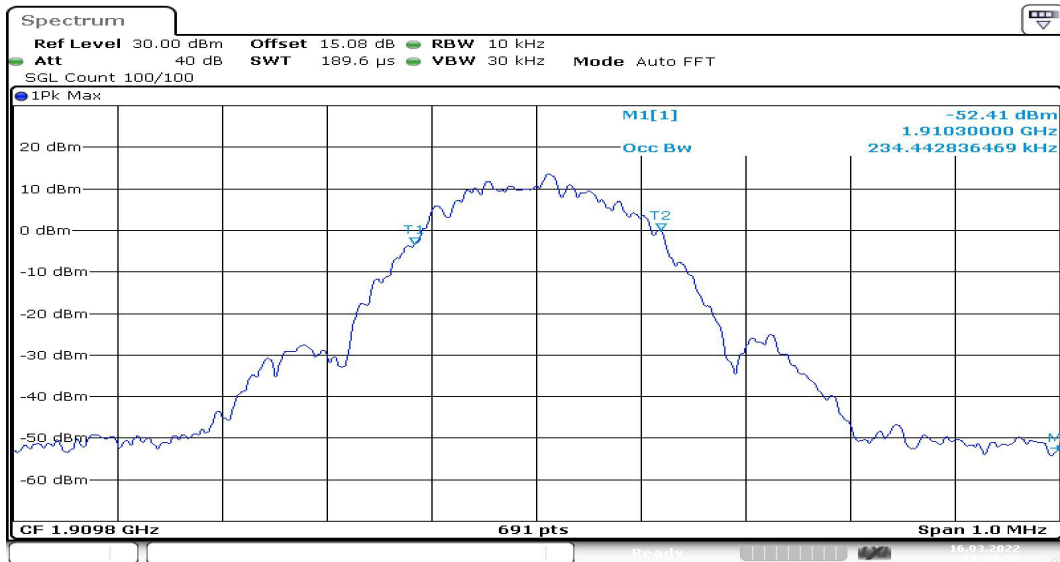


Date: 16.MAR.2022 11:02:41

Channel 512



Channel 661



Channel 810