

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 GSM850\_ERP

| Band: GSM850 |         |            |                 |                       |            |           |         |         |
|--------------|---------|------------|-----------------|-----------------------|------------|-----------|---------|---------|
| ENV          | Mode    |            | Frequency (MHz) | Conducted Power (dBm) | Gain (dBi) | ERP (dBm) |         | Verdict |
|              | Network | Subset     |                 |                       |            | Result    | Limit   |         |
| NTNV         | GSM     | GSM        | 824.2           | 32.82                 | -4.53      | 26.14     | <=38.45 | Pass    |
|              |         |            | 836.6           | 32.90                 | -4.53      | 26.22     | <=38.45 | Pass    |
|              |         |            | 848.8           | 32.90                 | -4.53      | 26.22     | <=38.45 | Pass    |
|              | GPRS    | 1 TX Slot  | 824.2           | 32.80                 | -4.53      | 26.12     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 824.2           | 31.21                 | -4.53      | 24.53     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 824.2           | 29.15                 | -4.53      | 22.47     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 824.2           | 27.25                 | -4.53      | 20.57     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 836.6           | 32.79                 | -4.53      | 26.11     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 836.6           | 31.29                 | -4.53      | 24.61     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 836.6           | 29.27                 | -4.53      | 22.59     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 836.6           | 27.43                 | -4.53      | 20.75     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 848.8           | 32.80                 | -4.53      | 26.12     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 848.8           | 31.32                 | -4.53      | 24.64     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 848.8           | 29.34                 | -4.53      | 22.66     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 848.8           | 27.56                 | -4.53      | 20.88     | <=38.45 | Pass    |
|              | EGPRS   | 1 TX Slot  | 824.2           | 27.36                 | -4.53      | 20.68     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 824.2           | 25.99                 | -4.53      | 19.31     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 824.2           | 23.67                 | -4.53      | 16.99     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 824.2           | 22.32                 | -4.53      | 15.64     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 836.6           | 29.05                 | -4.53      | 22.37     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 836.6           | 25.72                 | -4.53      | 19.04     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 836.6           | 23.68                 | -4.53      | 17        | <=38.45 | Pass    |
|              |         | 4 TX Slots | 836.6           | 22.29                 | -4.53      | 15.61     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 848.8           | 27.10                 | -4.53      | 20.42     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 848.8           | 25.63                 | -4.53      | 18.95     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 848.8           | 23.61                 | -4.53      | 16.93     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 848.8           | 22.33                 | -4.53      | 15.65     | <=38.45 | Pass    |

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 GSM850

| Band: GSM850 |                 |            |               |                  |                       |             |         |
|--------------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network      | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|              |                 |            |               |                  | Result                | Limit       |         |
| GSM          | 824.2           | 20         | 3.7           | -8.556           | -0.0104               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.91          | -2.647           | -0.0032               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.3           | -4.068           | -0.0049               | -2.5 to 2.5 | Pass    |
|              |                 | -30        | 3.91          | -5.263           | -0.0064               | -2.5 to 2.5 | Pass    |
|              |                 | -20        | 3.91          | -8.911           | -0.0108               | -2.5 to 2.5 | Pass    |
|              |                 | -10        | 3.91          | -5.779           | -0.0070               | -2.5 to 2.5 | Pass    |
|              |                 | 0          | 3.91          | -2.454           | -0.0030               | -2.5 to 2.5 | Pass    |
|              |                 | 10         | 3.91          | 3.325            | 0.0040                | -2.5 to 2.5 | Pass    |
|              |                 | 30         | 3.91          | 1.937            | 0.0024                | -2.5 to 2.5 | Pass    |
|              |                 | 40         | 3.91          | -1.162           | -0.0014               | -2.5 to 2.5 | Pass    |
|              |                 | 50         | 3.91          | -4.133           | -0.0050               | -2.5 to 2.5 | Pass    |
|              | 836.6           | 20         | 3.7           | -3.616           | -0.0043               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.91          | -1.130           | -0.0014               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.3           | -6.554           | -0.0078               | -2.5 to 2.5 | Pass    |
|              |                 | -30        | 3.91          | -5.424           | -0.0065               | -2.5 to 2.5 | Pass    |
|              |                 | -20        | 3.91          | -6.037           | -0.0072               | -2.5 to 2.5 | Pass    |
|              |                 | -10        | 3.91          | -2.744           | -0.0033               | -2.5 to 2.5 | Pass    |
|              |                 | 0          | 3.91          | -5.037           | -0.0060               | -2.5 to 2.5 | Pass    |
|              |                 | 10         | 3.91          | -7.103           | -0.0085               | -2.5 to 2.5 | Pass    |
|              |                 | 30         | 3.91          | -5.166           | -0.0062               | -2.5 to 2.5 | Pass    |
|              |                 | 40         | 3.91          | -0.678           | -0.0008               | -2.5 to 2.5 | Pass    |
|              |                 | 50         | 3.91          | -5.521           | -0.0066               | -2.5 to 2.5 | Pass    |
|              | 848.8           | 20         | 3.7           | -5.037           | -0.0059               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.91          | -3.939           | -0.0046               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.3           | -3.132           | -0.0037               | -2.5 to 2.5 | Pass    |
|              |                 | -30        | 3.91          | -4.165           | -0.0049               | -2.5 to 2.5 | Pass    |
|              |                 | -20        | 3.91          | -4.455           | -0.0052               | -2.5 to 2.5 | Pass    |
|              |                 | -10        | 3.91          | -4.778           | -0.0056               | -2.5 to 2.5 | Pass    |
|              |                 | 0          | 3.91          | -3.551           | -0.0042               | -2.5 to 2.5 | Pass    |
|              |                 | 10         | 3.91          | -4.036           | -0.0048               | -2.5 to 2.5 | Pass    |
|              |                 | 30         | 3.91          | -4.746           | -0.0056               | -2.5 to 2.5 | Pass    |
|              |                 | 40         | 3.91          | -9.234           | -0.0109               | -2.5 to 2.5 | Pass    |
|              |                 | 50         | 3.91          | -6.554           | -0.0077               | -2.5 to 2.5 | Pass    |
| GPRS         | 824.2           | 20         | 3.7           | -7.942           | -0.0096               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.91          | -6.877           | -0.0083               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.3           | -7.426           | -0.0090               | -2.5 to 2.5 | Pass    |
|              |                 | -30        | 3.91          | -9.298           | -0.0113               | -2.5 to 2.5 | Pass    |
|              |                 | -20        | 3.91          | -8.330           | -0.0101               | -2.5 to 2.5 | Pass    |
|              |                 | -10        | 3.91          | -10.525          | -0.0128               | -2.5 to 2.5 | Pass    |
|              |                 | 0          | 3.91          | -8.168           | -0.0099               | -2.5 to 2.5 | Pass    |
|              |                 | 10         | 3.91          | -7.232           | -0.0088               | -2.5 to 2.5 | Pass    |
|              |                 | 30         | 3.91          | -12.527          | -0.0152               | -2.5 to 2.5 | Pass    |
|              |                 | 40         | 3.91          | -10.945          | -0.0133               | -2.5 to 2.5 | Pass    |
|              |                 | 50         | 3.91          | -9.395           | -0.0114               | -2.5 to 2.5 | Pass    |
|              | 836.6           | 20         | 3.7           | -9.653           | -0.0115               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.91          | -8.749           | -0.0105               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.3           | -6.328           | -0.0076               | -2.5 to 2.5 | Pass    |

|       |       |     |      |         |         |             |      |
|-------|-------|-----|------|---------|---------|-------------|------|
|       |       | -30 | 3.91 | -9.879  | -0.0118 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.91 | -10.299 | -0.0123 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.91 | -9.686  | -0.0116 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.91 | -9.718  | -0.0116 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.91 | -9.847  | -0.0118 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.91 | -9.847  | -0.0118 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.91 | -13.431 | -0.0161 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.91 | -13.528 | -0.0162 | -2.5 to 2.5 | Pass |
|       | 848.8 | 20  | 3.7  | -8.039  | -0.0095 | -2.5 to 2.5 | Pass |
|       |       |     | 3.91 | -7.071  | -0.0083 | -2.5 to 2.5 | Pass |
|       |       |     | 4.3  | -6.425  | -0.0076 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.91 | -6.328  | -0.0075 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.91 | -7.135  | -0.0084 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.91 | -8.943  | -0.0105 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.91 | -9.686  | -0.0114 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.91 | -7.264  | -0.0086 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.91 | -9.783  | -0.0115 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.91 | -11.042 | -0.0130 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.91 | -14.690 | -0.0173 | -2.5 to 2.5 | Pass |
| EGPRS | 824.2 | 20  | 3.7  | -12.850 | -0.0156 | -2.5 to 2.5 | Pass |
|       |       |     | 3.91 | -12.591 | -0.0153 | -2.5 to 2.5 | Pass |
|       |       |     | 4.3  | -15.174 | -0.0184 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.91 | -17.790 | -0.0216 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.91 | -17.886 | -0.0217 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.91 | -16.240 | -0.0197 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.91 | -12.269 | -0.0149 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.91 | -16.886 | -0.0205 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.91 | -13.237 | -0.0161 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.91 | -13.851 | -0.0168 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.91 | -11.881 | -0.0144 | -2.5 to 2.5 | Pass |
|       | 836.6 | 20  | 3.7  | -14.238 | -0.0170 | -2.5 to 2.5 | Pass |
|       |       |     | 3.91 | -17.241 | -0.0206 | -2.5 to 2.5 | Pass |
|       |       |     | 4.3  | -15.788 | -0.0189 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.91 | -17.983 | -0.0215 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.91 | -12.817 | -0.0153 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.91 | -16.434 | -0.0196 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.91 | -16.175 | -0.0193 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.91 | -16.692 | -0.0200 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.91 | -20.211 | -0.0242 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.91 | -18.823 | -0.0225 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.91 | -12.882 | -0.0154 | -2.5 to 2.5 | Pass |
|       | 848.8 | 20  | 3.7  | -16.563 | -0.0195 | -2.5 to 2.5 | Pass |
|       |       |     | 3.91 | -16.046 | -0.0189 | -2.5 to 2.5 | Pass |
|       |       |     | 4.3  | -17.660 | -0.0208 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.91 | -13.883 | -0.0164 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.91 | -14.625 | -0.0172 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.91 | -15.142 | -0.0178 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.91 | -13.043 | -0.0154 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.91 | -10.977 | -0.0129 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.91 | -11.752 | -0.0138 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.91 | -20.179 | -0.0238 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.91 | -16.401 | -0.0193 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 GSM850\_OBW

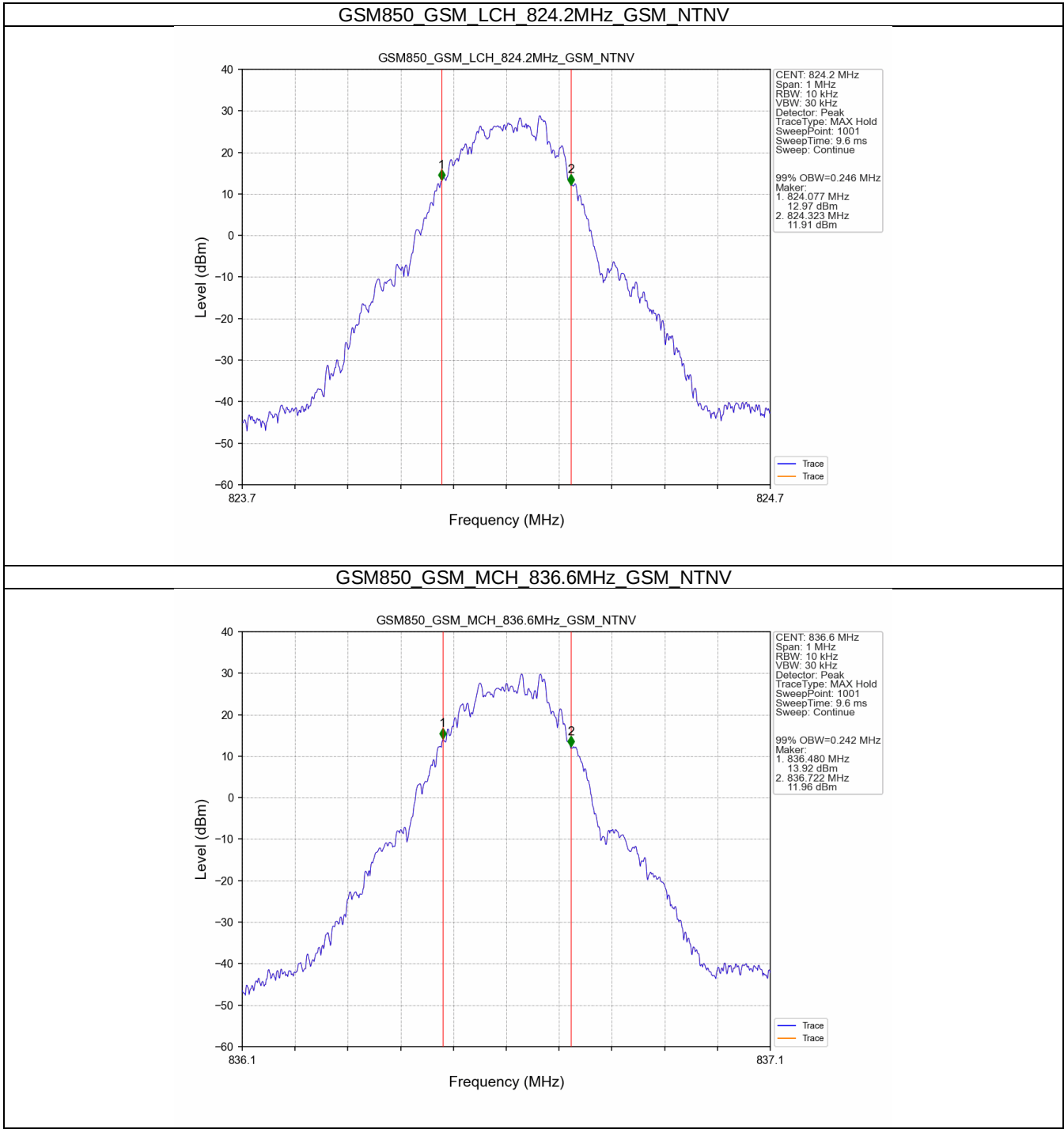
| Band: GSM850 |         |           |                 |                              |       |         |
|--------------|---------|-----------|-----------------|------------------------------|-------|---------|
| ENV          | Mode    |           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|              | Network | Subset    |                 | Result                       | Limit |         |
| NTNV         | GSM     | GSM       | 824.2           | 0.246                        | /     | Pass    |
|              |         |           | 836.6           | 0.242                        | /     | Pass    |
|              |         |           | 848.8           | 0.245                        | /     | Pass    |
|              | GPRS    | 1 TX Slot | 824.2           | 0.247                        | /     | Pass    |
|              |         |           | 836.6           | 0.244                        | /     | Pass    |
|              |         |           | 848.8           | 0.245                        | /     | Pass    |
|              | EGPRS   | 1 TX Slot | 824.2           | 0.242                        | /     | Pass    |
|              |         |           | 836.6           | 0.247                        | /     | Pass    |
|              |         |           | 848.8           | 0.240                        | /     | Pass    |

##### 3.1.2 GSM850\_XDB

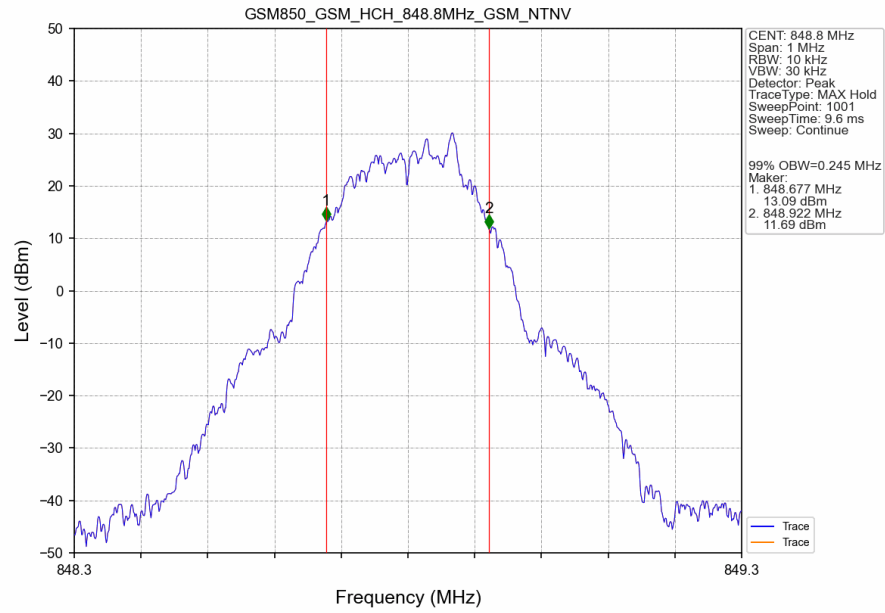
| Band: GSM850 |         |           |                 |                      |       |         |
|--------------|---------|-----------|-----------------|----------------------|-------|---------|
| ENV          | Mode    |           | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|              | Network | Subset    |                 | Result               | Limit |         |
| NTNV         | GSM     | GSM       | 824.2           | 0.313                | /     | Pass    |
|              |         |           | 836.6           | 0.310                | /     | Pass    |
|              |         |           | 848.8           | 0.305                | /     | Pass    |
|              | GPRS    | 1 TX Slot | 824.2           | 0.319                | /     | Pass    |
|              |         |           | 836.6           | 0.326                | /     | Pass    |
|              |         |           | 848.8           | 0.324                | /     | Pass    |
|              | EGPRS   | 1 TX Slot | 824.2           | 0.316                | /     | Pass    |
|              |         |           | 836.6           | 0.302                | /     | Pass    |
|              |         |           | 848.8           | 0.320                | /     | Pass    |

# 3.2 Test Graph

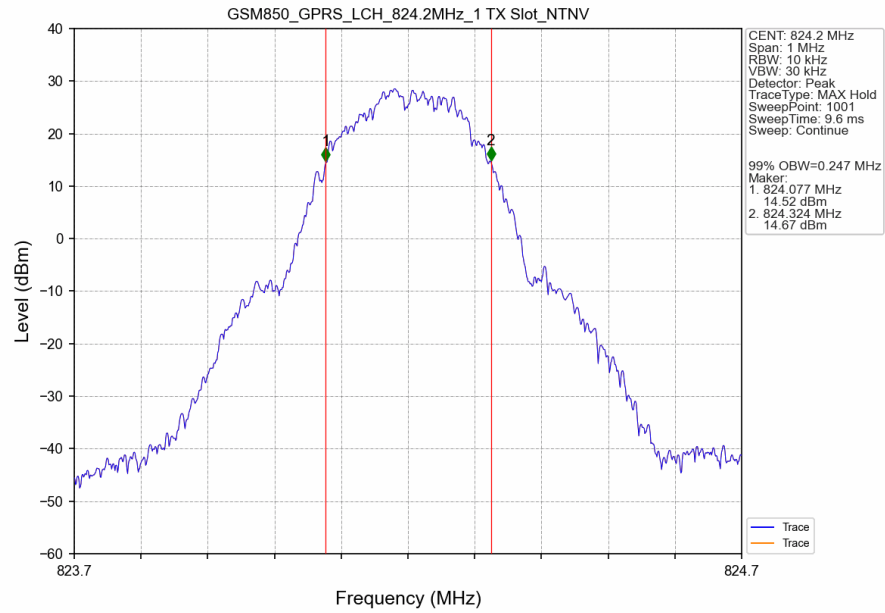
## 3.2.1 GSM850\_OBW



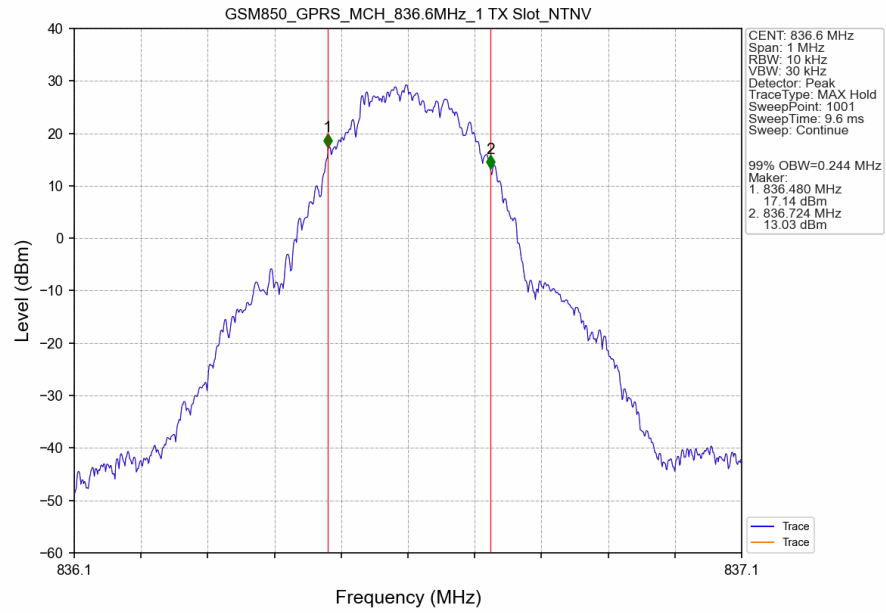
# GSM850 GSM HCH 848.8MHz GSM NTN



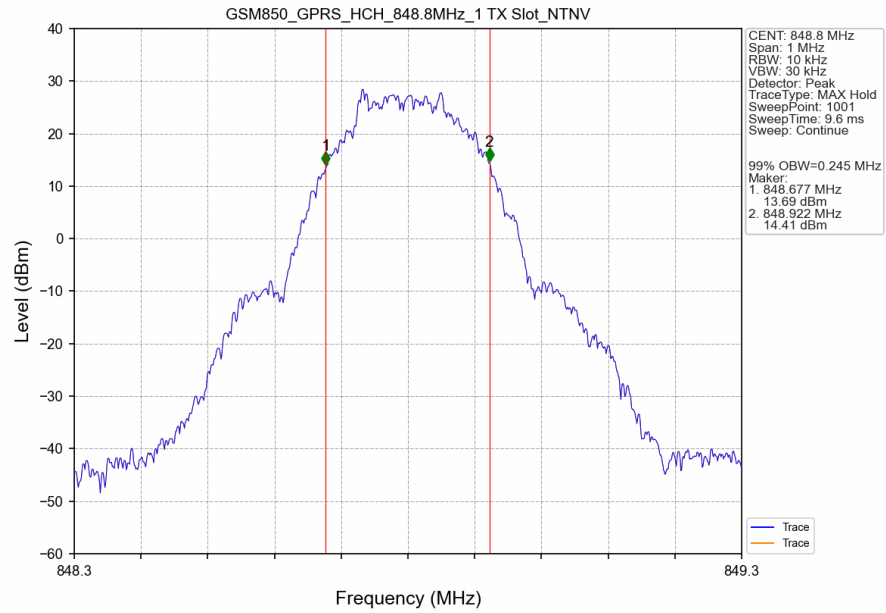
# GSM850 GPRS LCH 824.2MHz\_1 TX Slot NTN



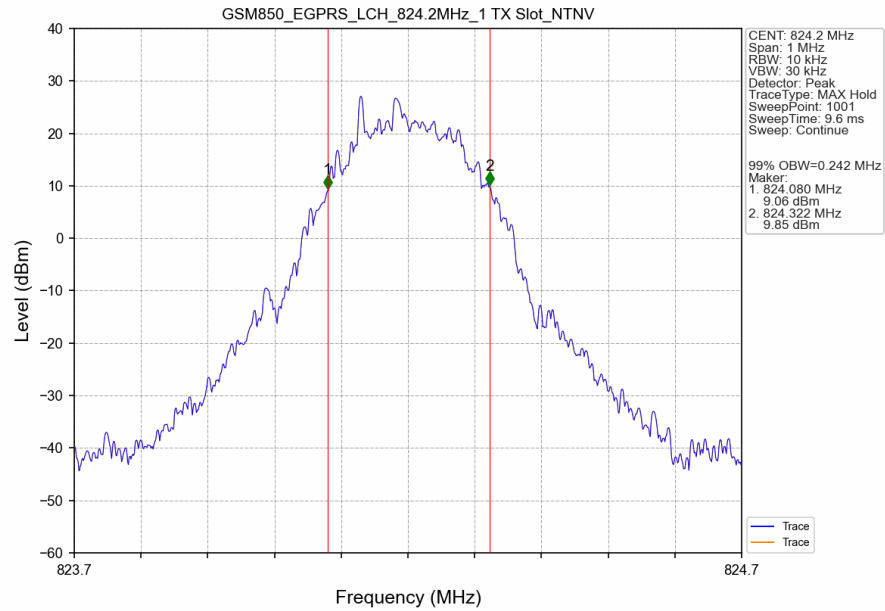
# GSM850\_GPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



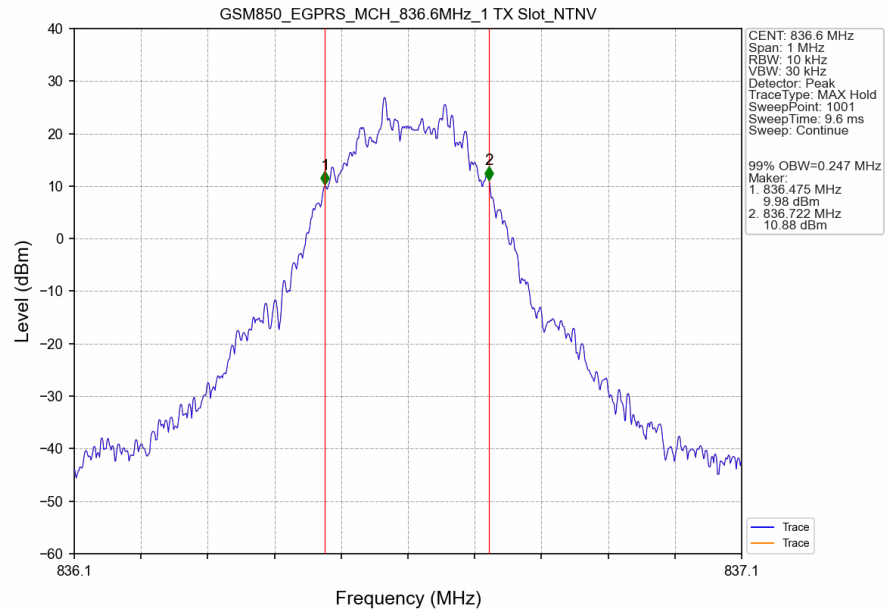
# GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



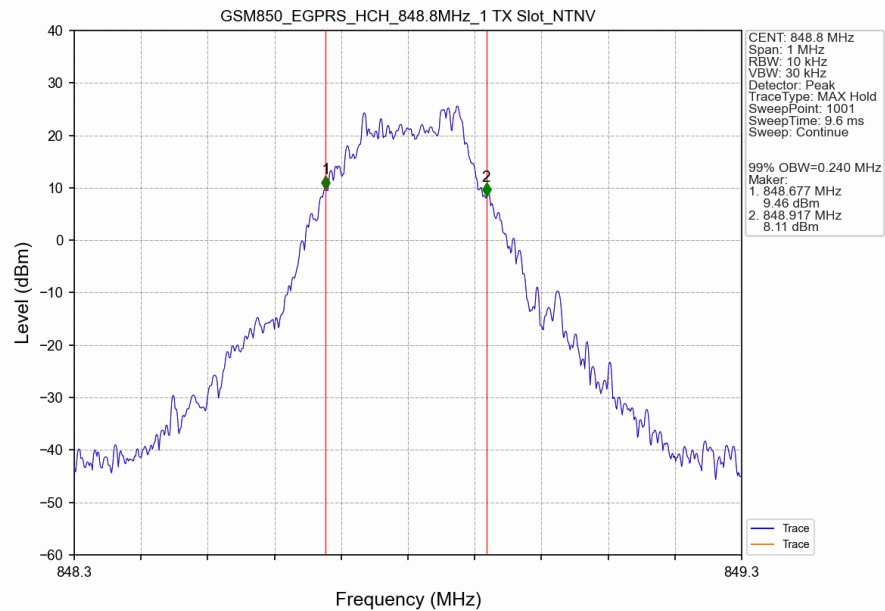
### GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



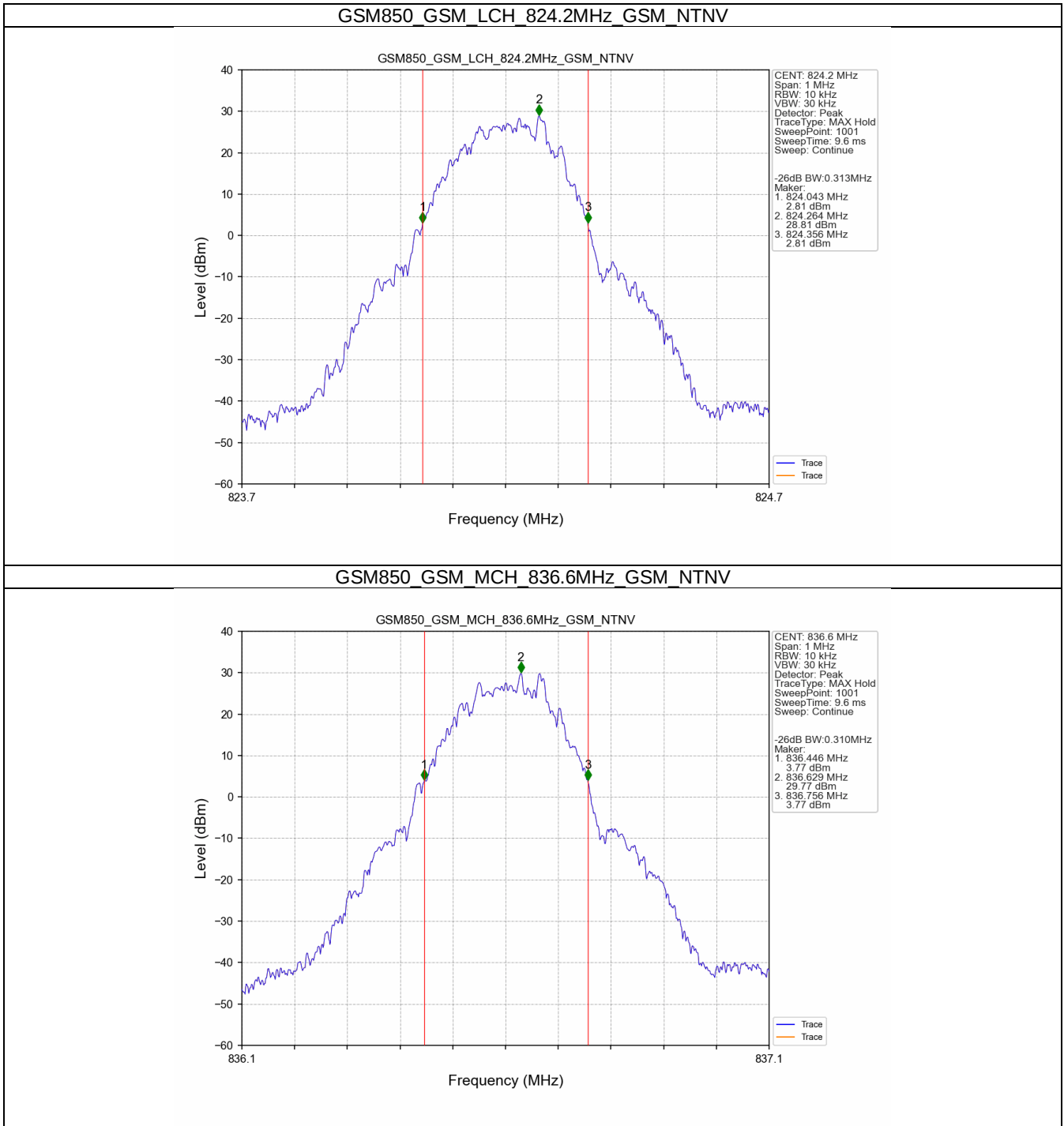
### GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



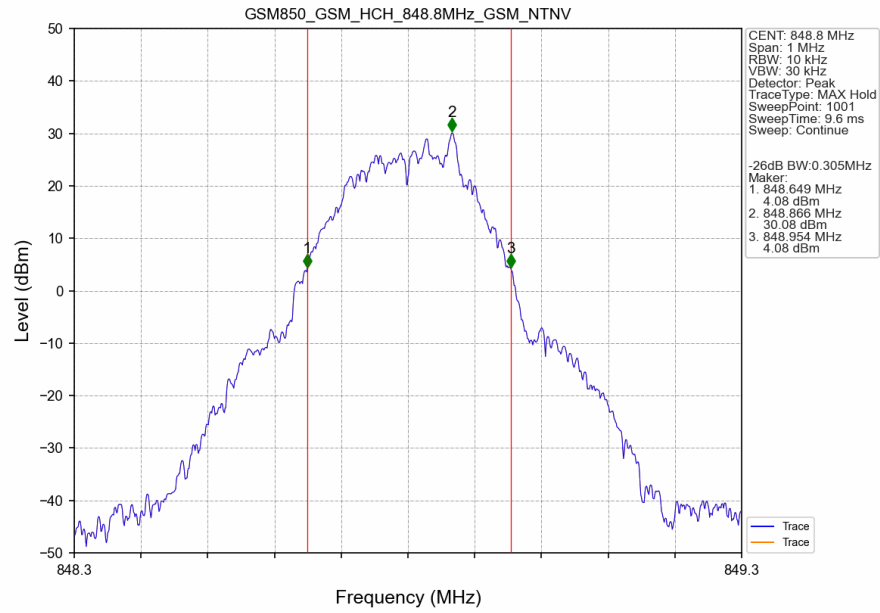
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



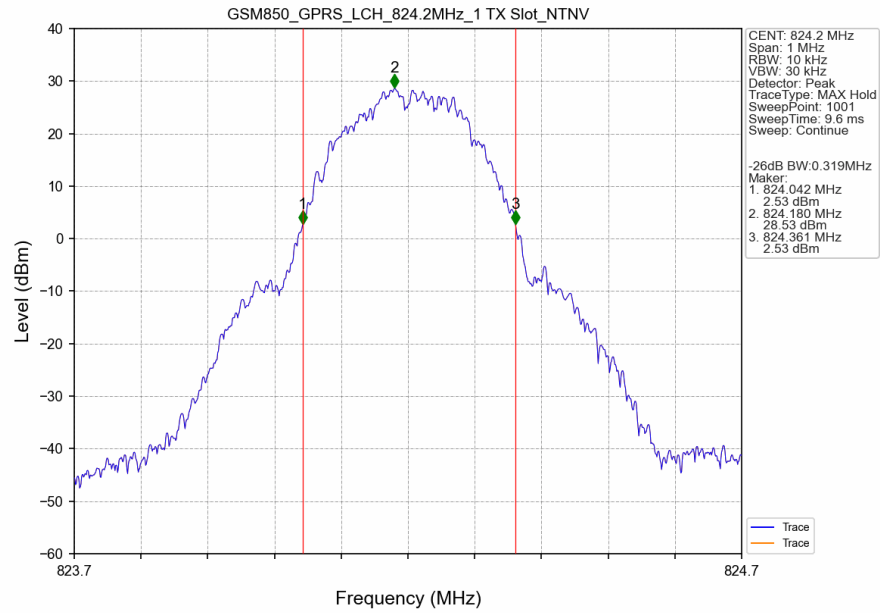
3.2.2 GSM850\_XDB



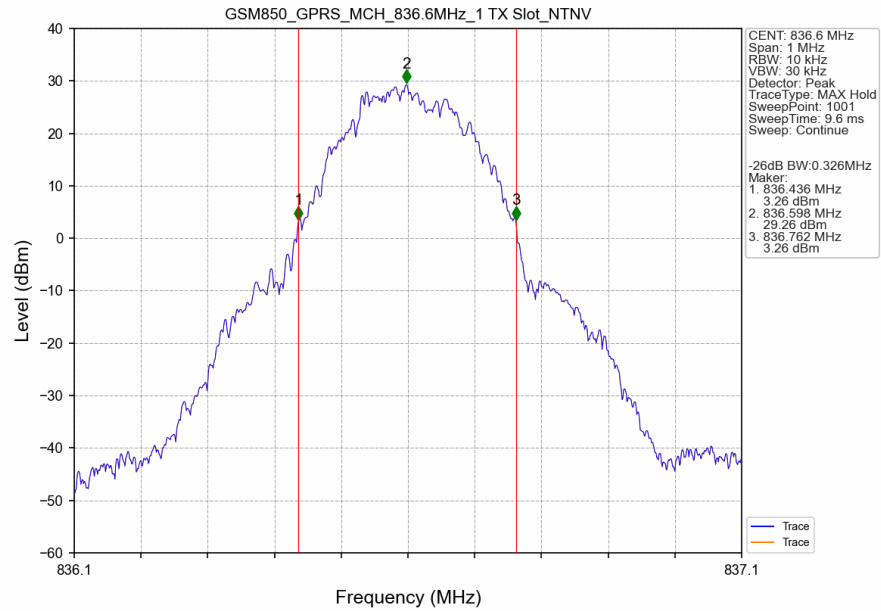
# GSM850 GSM HCH 848.8MHz GSM NTN



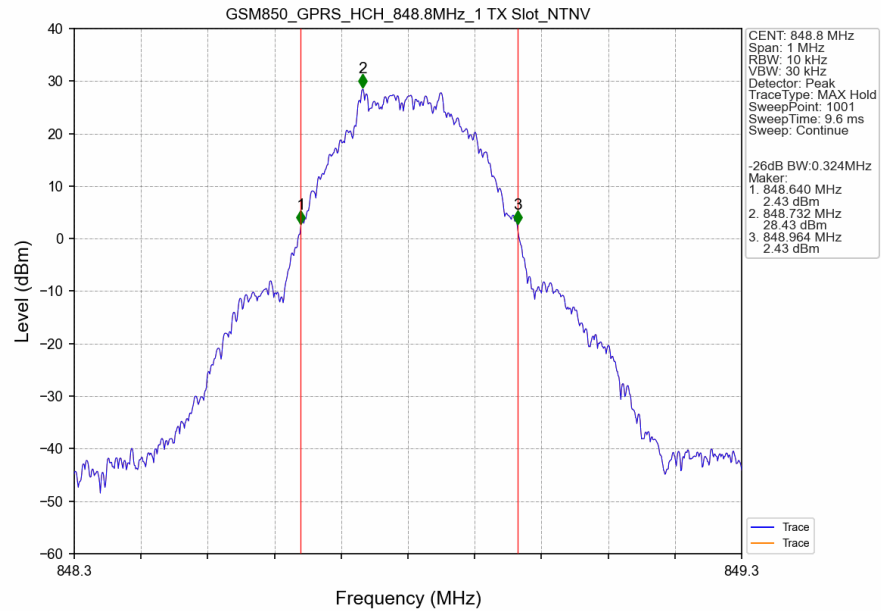
# GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot NTN



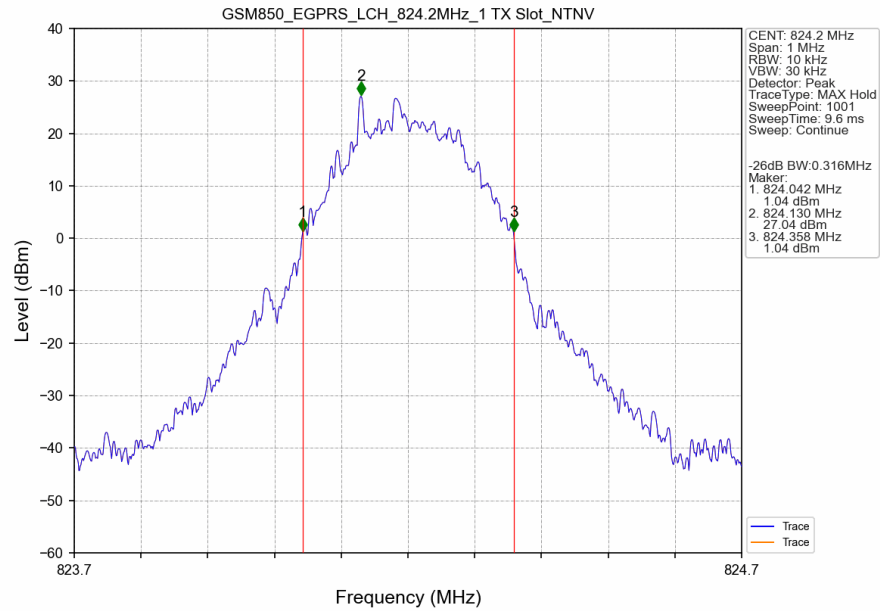
# GSM850\_GPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



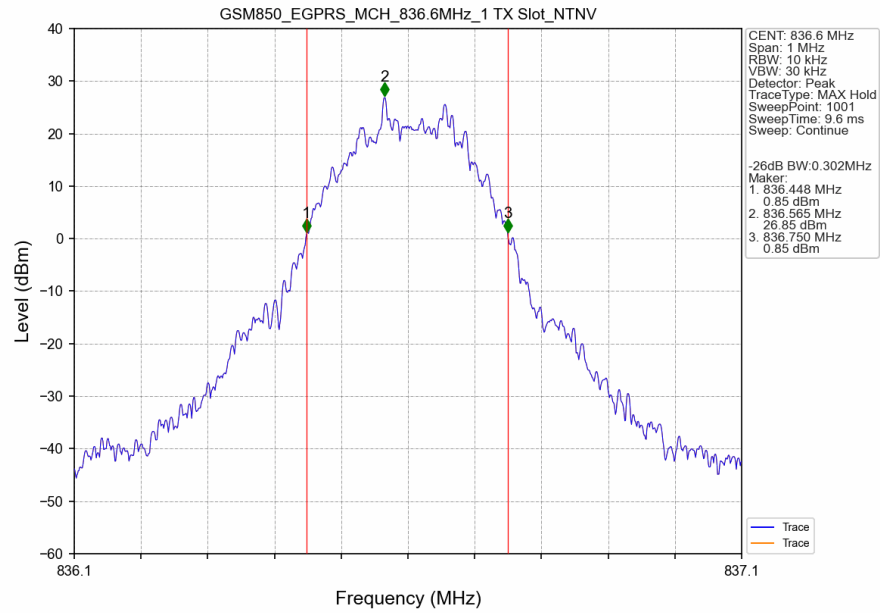
# GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



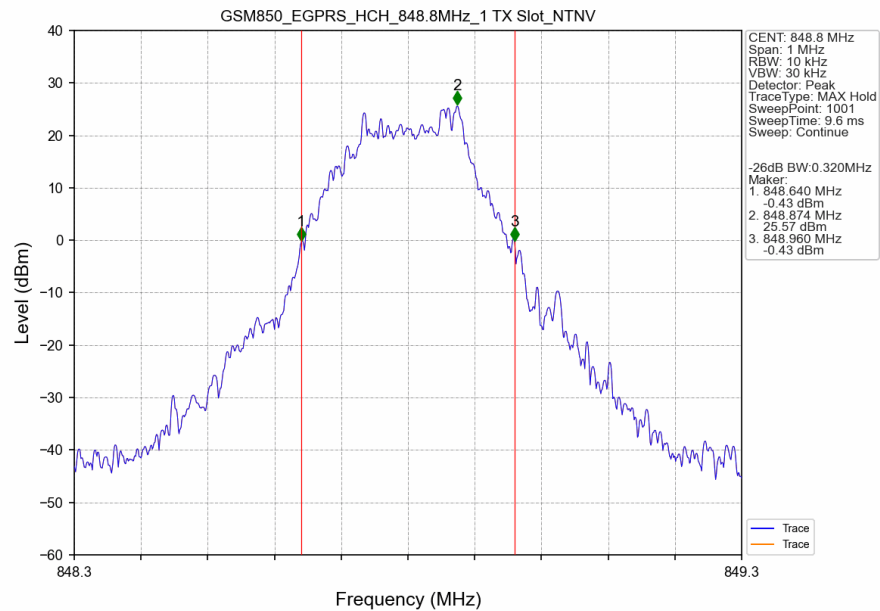
# GSM850 EGPRS LCH 824.2MHz 1 TX Slot\_NTNV



# GSM850 EGPRS MCH 836.6MHz 1 TX Slot\_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

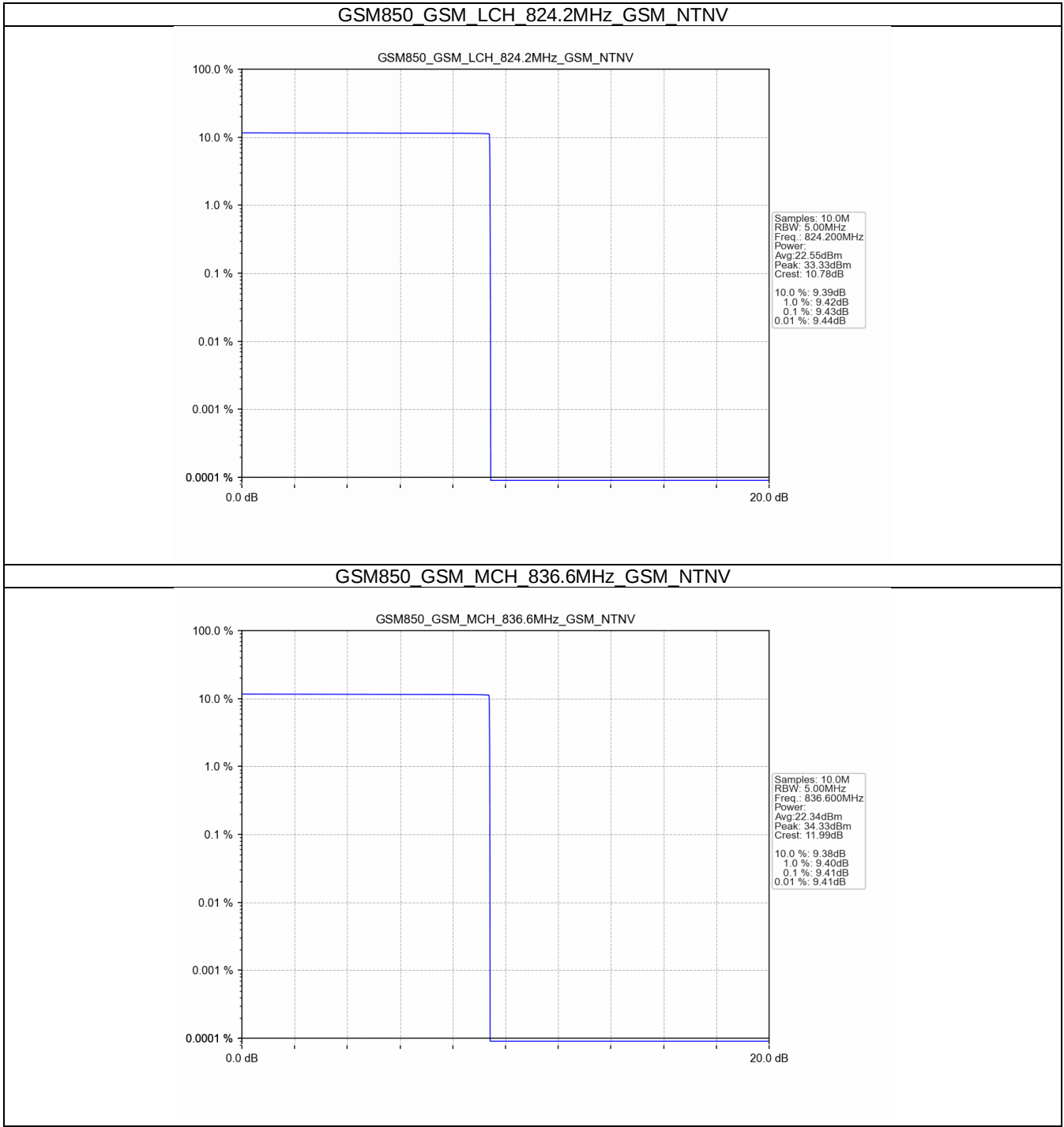
4.1 Test Result

4.1.1 GSM850

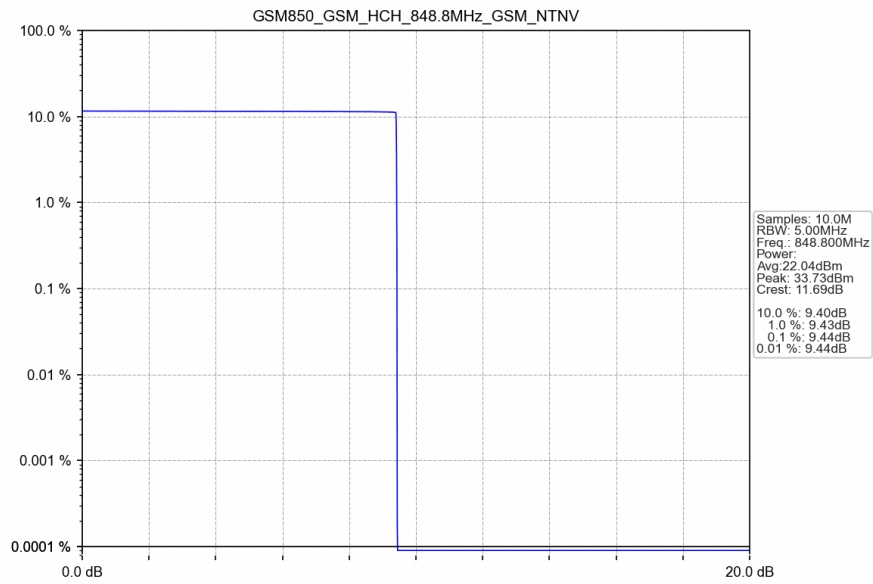
| Band: GSM850 |         |            |                    |                         |       |         |
|--------------|---------|------------|--------------------|-------------------------|-------|---------|
| ENV          | Mode    |            | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|              | Network | Subset     |                    | Result                  | Limit |         |
| NTNV         | GSM     | GSM        | 824.2              | 9.43                    | <=13  | Pass    |
|              |         |            | 836.6              | 9.41                    | <=13  | Pass    |
|              |         |            | 848.8              | 9.44                    | <=13  | Pass    |
|              | GPRS    | 4 TX Slots | 824.2              | 3.48                    | <=13  | Pass    |
|              |         |            | 836.6              | 3.57                    | <=13  | Pass    |
|              |         |            | 848.8              | 3.57                    | <=13  | Pass    |
|              | EGPRS   | 4 TX Slots | 824.2              | 6.87                    | <=13  | Pass    |
|              |         |            | 836.6              | 8.96                    | <=13  | Pass    |
|              |         |            | 848.8              | 8.94                    | <=13  | Pass    |

4.2 Test Graph

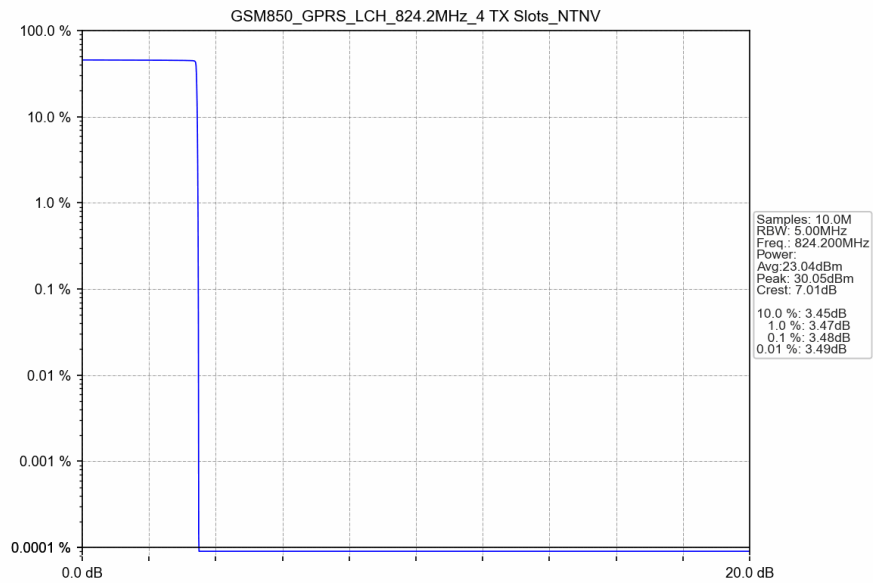
4.2.1 GSM850



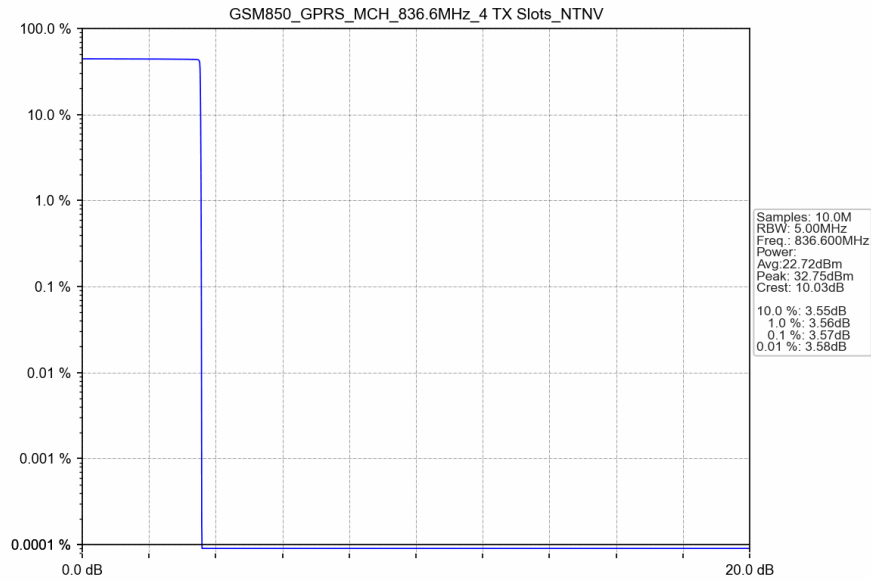
# GSM850 GSM HCH 848.8MHz GSM NTNV



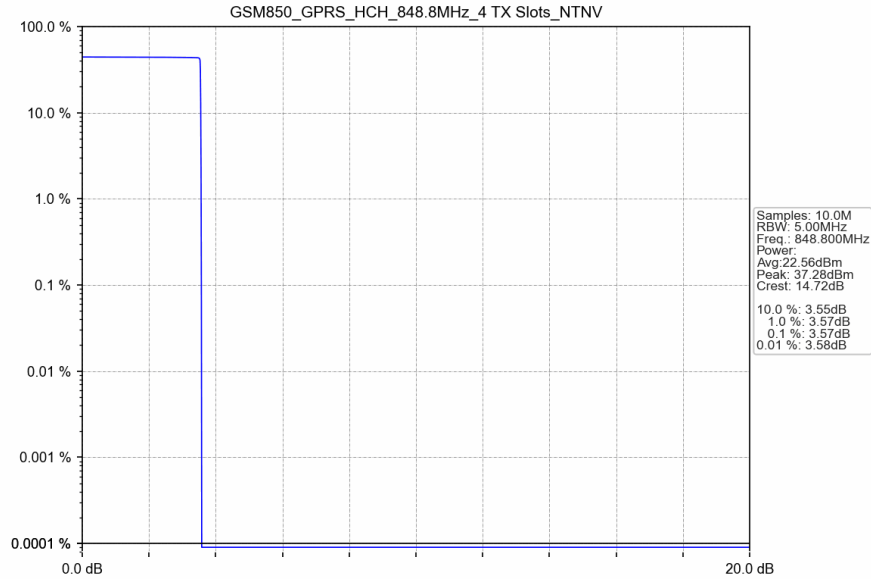
# GSM850 GPRS LCH 824.2MHz 4 TX Slots NTNV



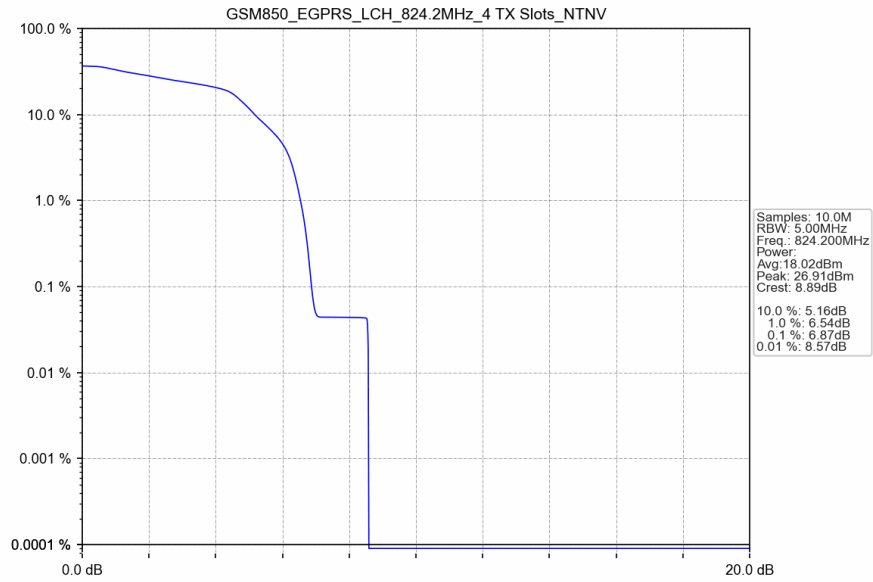
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTNV



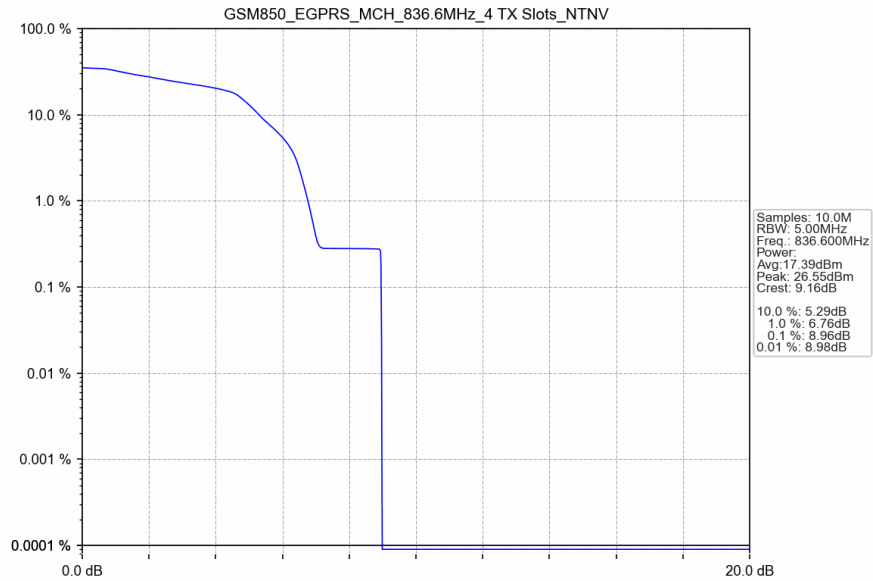
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



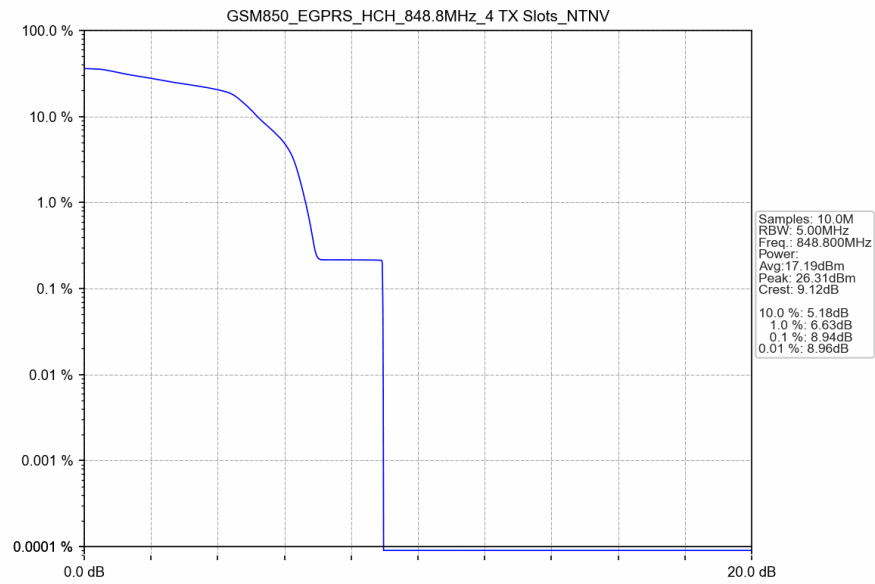
# GSM850\_EGPRS\_LCH\_824.2MHz\_4 TX Slots\_NTNV



# GSM850\_EGPRS\_MCH\_836.6MHz\_4 TX Slots\_NTNV



# GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



## 5. Spurious Emission

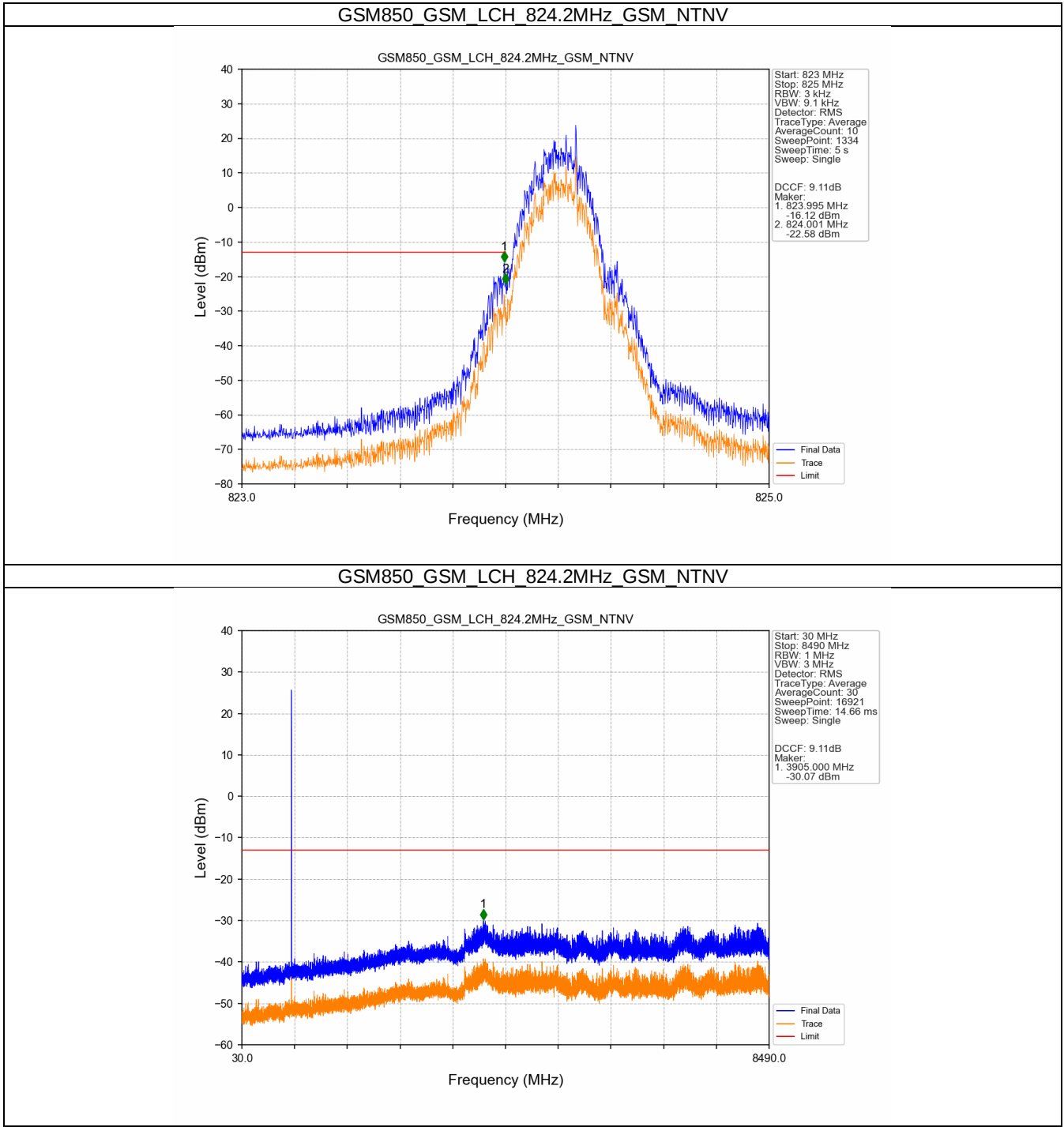
### 5.1 Test Result

#### 5.1.1 GSM850

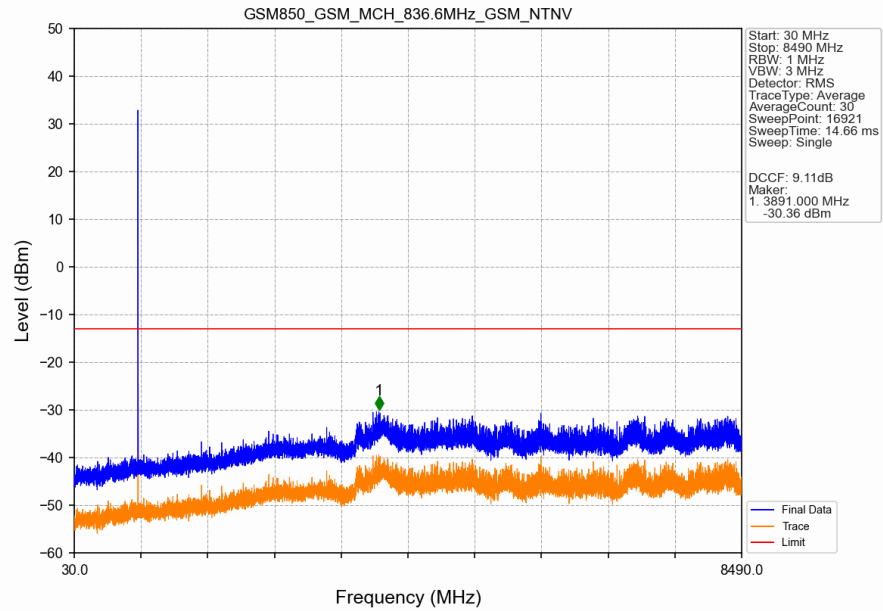
| Band: GSM850 |         |           |                    |                     |       |         |
|--------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV          | Mode    |           | Frequency<br>(MHz) | Spurious Emission   |       | Verdict |
|              | Network | Subset    |                    | Result              | Limit |         |
| NTNV         | GSM     | GSM       | 824.2              | Refer To Test Graph | Pass  |         |
|              |         |           | 836.6              | Refer To Test Graph | Pass  |         |
|              |         |           | 848.8              | Refer To Test Graph | Pass  |         |
|              | GPRS    | 1 TX Slot | 824.2              | Refer To Test Graph | Pass  |         |
|              |         |           | 836.6              | Refer To Test Graph | Pass  |         |
|              |         |           | 848.8              | Refer To Test Graph | Pass  |         |
|              | EGPRS   | 1 TX Slot | 824.2              | Refer To Test Graph | Pass  |         |
|              |         |           | 836.6              | Refer To Test Graph | Pass  |         |
|              |         |           | 848.8              | Refer To Test Graph | Pass  |         |

5.2 Test Graph

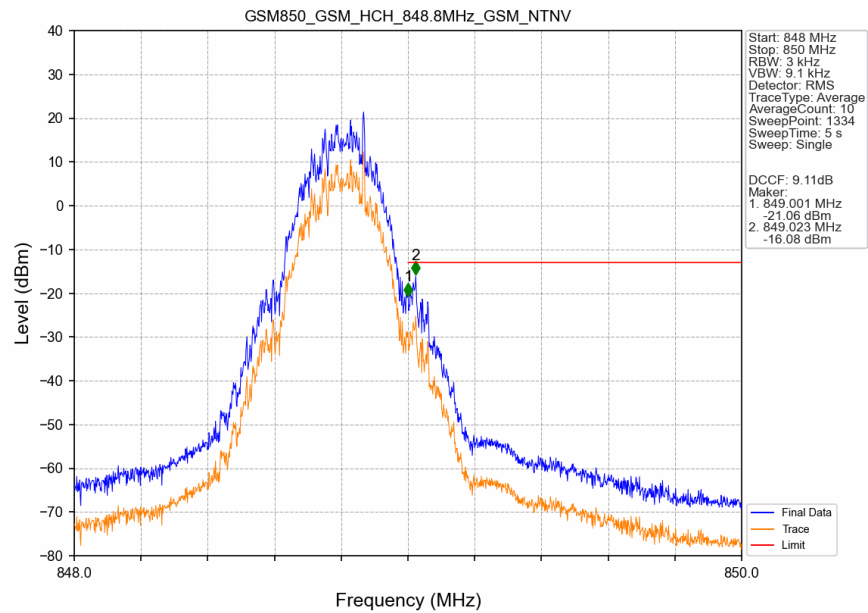
5.2.1 GSM850



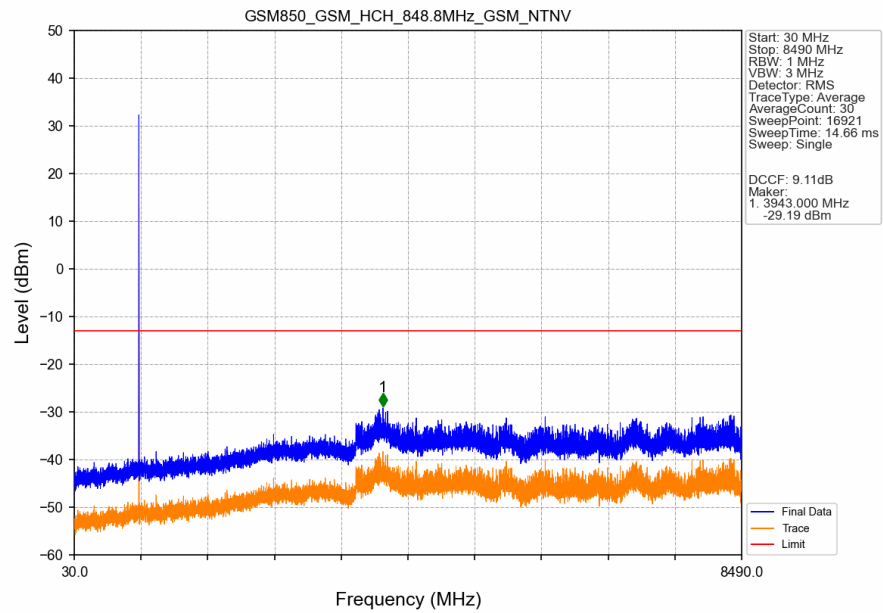
# GSM850 GSM MCH 836.6MHz GSM NTNV



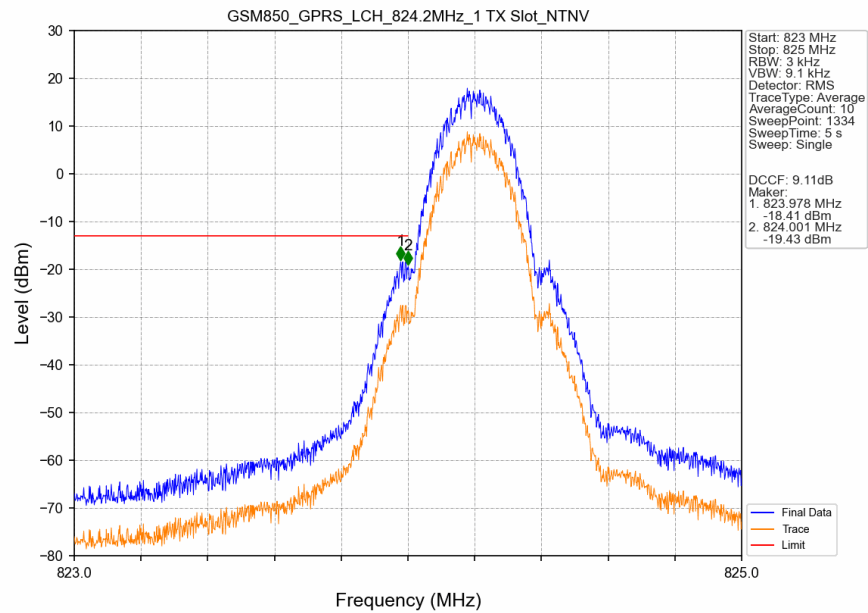
# GSM850 GSM HCH 848.8MHz GSM NTNV



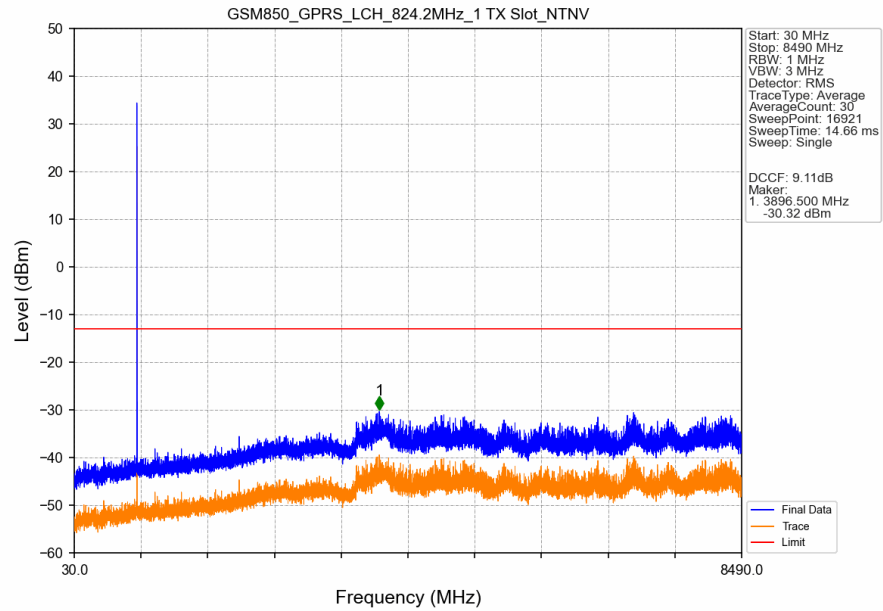
# GSM850 GSM HCH 848.8MHz GSM NTN



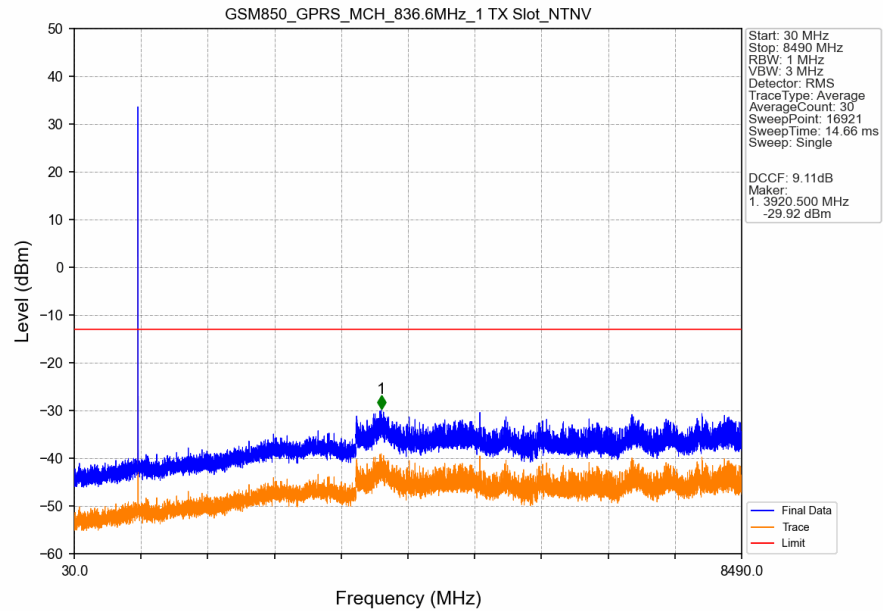
# GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTN



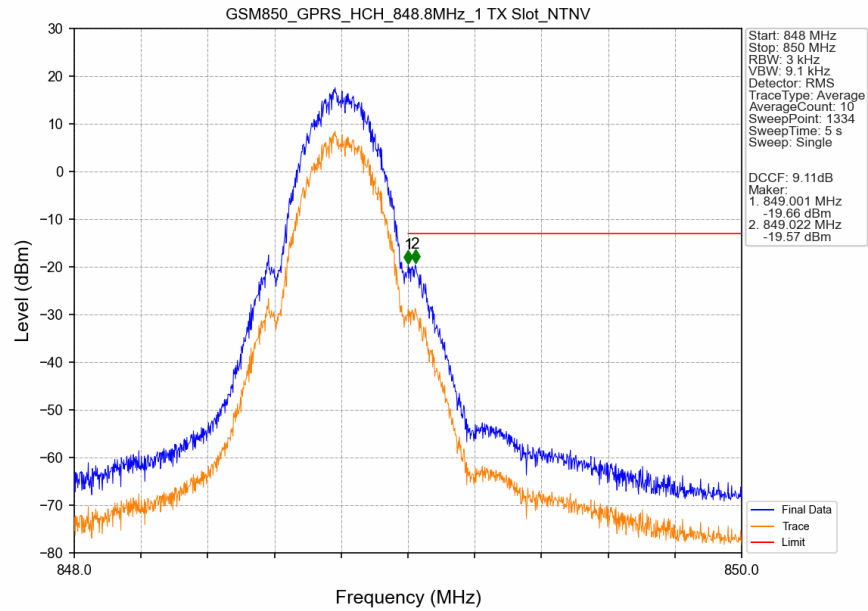
# GSM850 GPRS LCH 824.2MHz 1 TX Slot\_NTNV



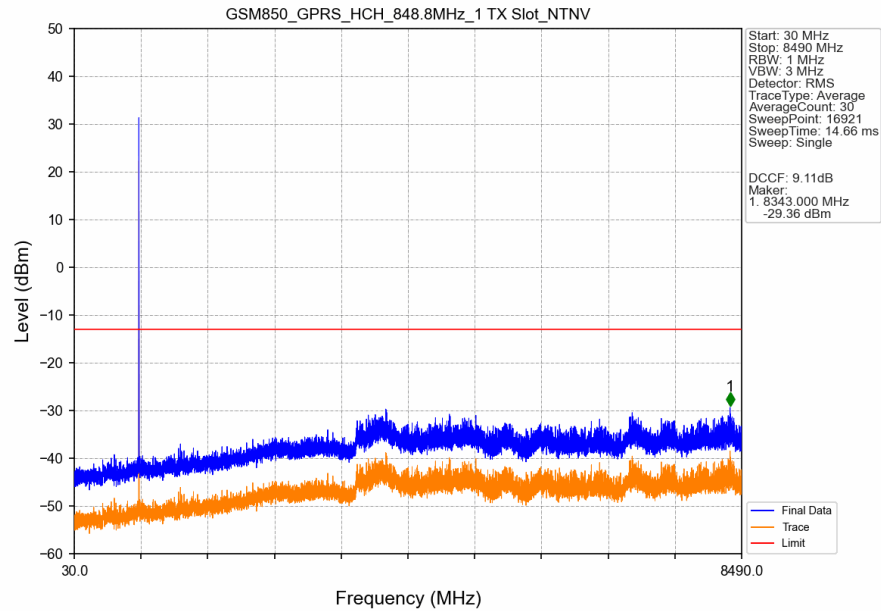
# GSM850 GPRS MCH 836.6MHz 1 TX Slot\_NTNV



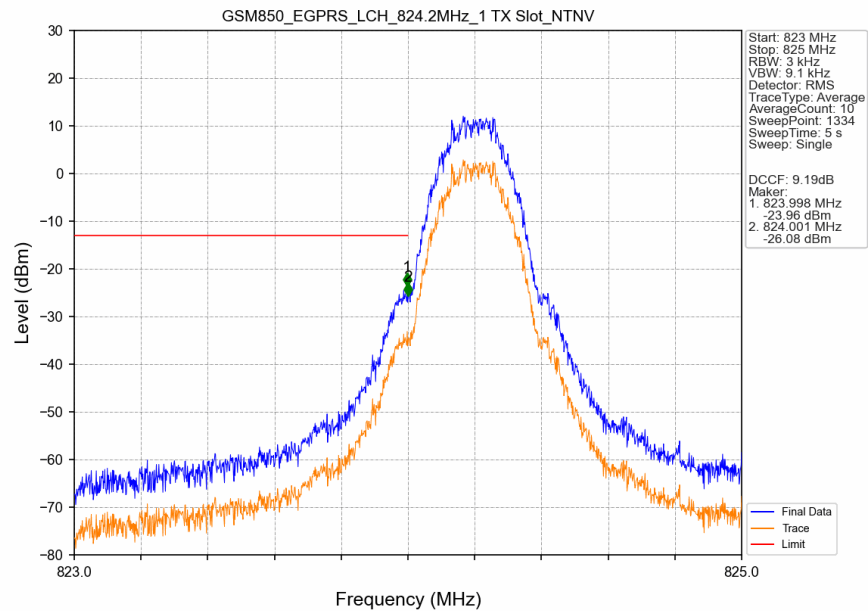
# GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



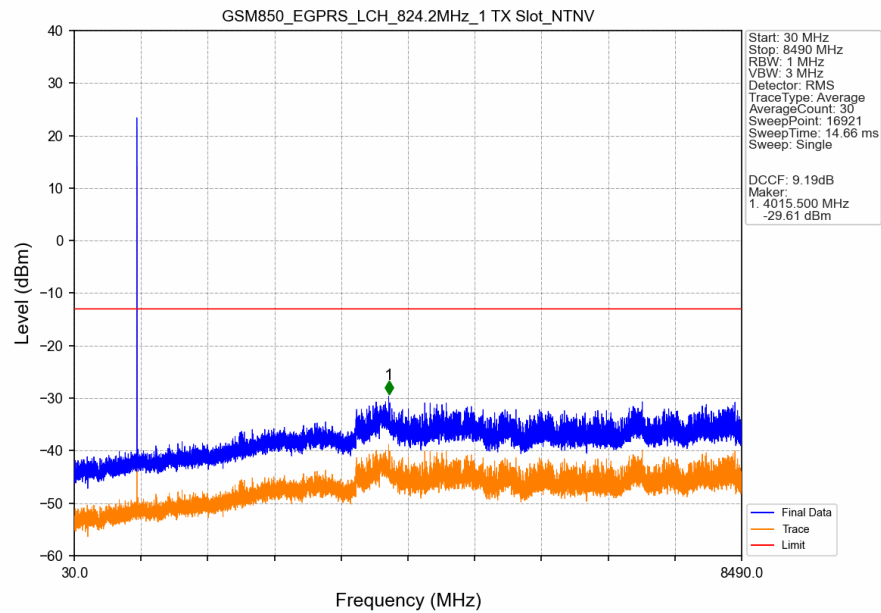
# GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



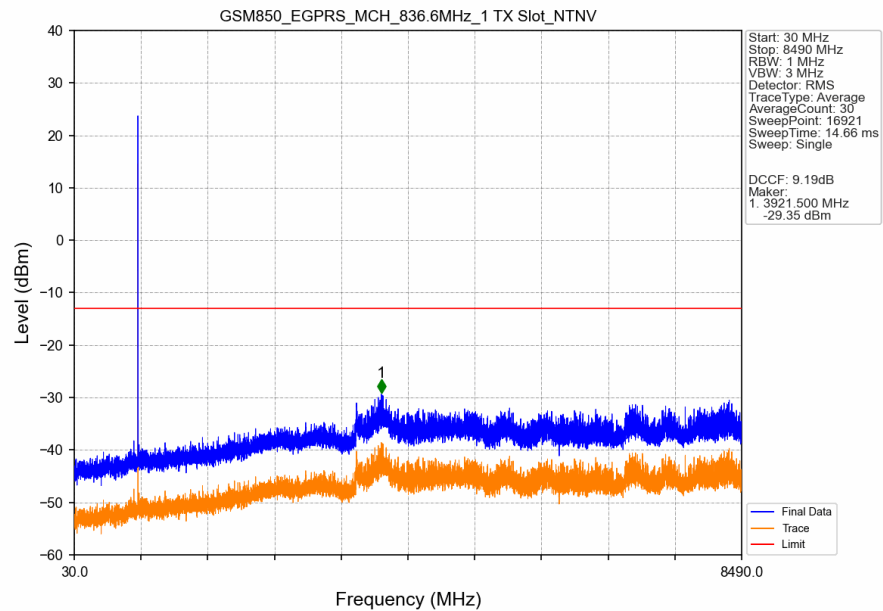
GSM850 EGPRS LCH 824.2MHz 1 TX Slot\_NTNV



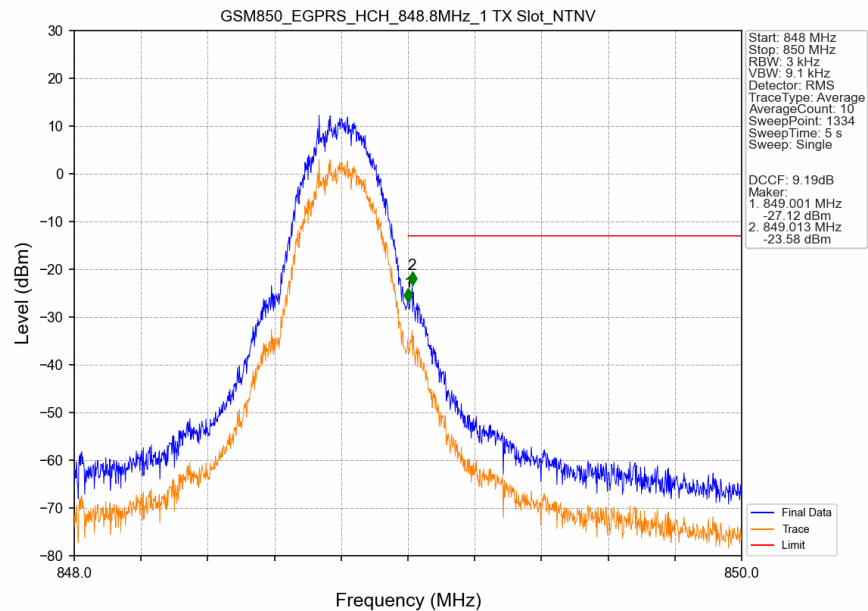
GSM850 EGPRS LCH 824.2MHz 1 TX Slot\_NTNV



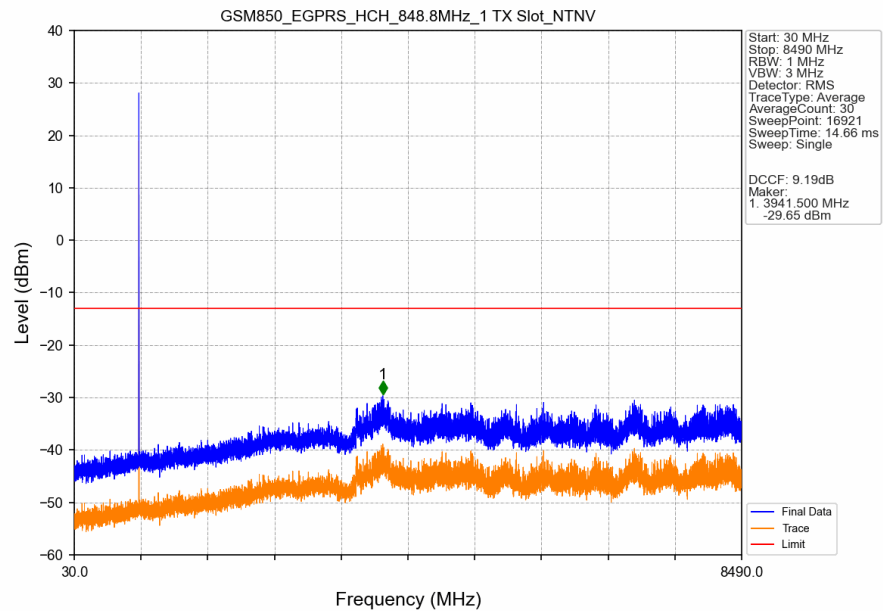
GSM850 EGPRS MCH 836.6MHz 1 TX Slot\_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot\_NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



## 6. Field Strength of Spurious Radiation

| GSM850 ANT13-Low channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)          | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1648.4                   | -70.24     | -13         | -57.24          | -73.13           | 2.62            | 5.51               | Horizontal         | Pass   |
| 2472.6                   | -66.04     | -13         | -53.04          | -68.73           | 3.06            | 5.75               | Horizontal         | Pass   |
| 3296.8                   | -65.55     | -13         | -52.55          | -69.91           | 3.3             | 7.66               | Horizontal         | Pass   |
| 1648.4                   | -69.3      | -13         | -56.3           | -72.19           | 2.62            | 5.51               | Vertical           | Pass   |
| 2472.6                   | -62.37     | -13         | -49.37          | -65.06           | 3.06            | 5.75               | Vertical           | Pass   |
| 3296.8                   | -65.94     | -13         | -52.94          | -70.3            | 3.3             | 7.66               | Vertical           | Pass   |

| GSM850 ANT13-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)             | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1673.2                      | -68.21     | -13         | -55.21          | -71.02           | 2.63            | 5.44               | Horizontal         | Pass   |
| 2509.8                      | -64.32     | -13         | -51.32          | -67.08           | 3.08            | 5.84               | Horizontal         | Pass   |
| 3346.4                      | -61.34     | -13         | -48.34          | -65.81           | 3.32            | 7.79               | Horizontal         | Pass   |
| 1673.2                      | -67.66     | -13         | -54.66          | -70.47           | 2.63            | 5.44               | Vertical           | Pass   |
| 2509.8                      | -62.17     | -13         | -49.17          | -64.93           | 3.08            | 5.84               | Vertical           | Pass   |
| 3346.4                      | -61.71     | -13         | -48.71          | -66.18           | 3.32            | 7.79               | Vertical           | Pass   |

| GSM850 ANT13-High channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1697.6                    | -67.32     | -13         | -54.32          | -70.06           | 2.64            | 5.38               | Horizontal         | Pass   |
| 2546.4                    | -63.16     | -13         | -50.16          | -65.99           | 3.09            | 5.92               | Horizontal         | Pass   |
| 3395.2                    | -61.86     | -13         | -48.86          | -66.42           | 3.35            | 7.91               | Horizontal         | Pass   |
| 1697.6                    | -65.55     | -13         | -52.55          | -68.29           | 2.64            | 5.38               | Vertical           | Pass   |
| 2546.4                    | -64.12     | -13         | -51.12          | -66.95           | 3.09            | 5.92               | Vertical           | Pass   |
| 3395.2                    | -61.72     | -13         | -48.72          | -66.28           | 3.35            | 7.91               | Vertical           | Pass   |