

## 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           | 31.94                 | -4.90      | 24.89     | <=38.45 | Pass    |
|              |         |            | 836.6           | 32.03                 | -4.90      | 24.98     | <=38.45 | Pass    |
|              |         |            | 848.8           | 31.95                 | -4.90      | 24.90     | <=38.45 | Pass    |
|              | GPRS    | 1 TX Slot  | 824.2           | 31.92                 | -4.90      | 24.87     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 824.2           | 29.41                 | -4.90      | 22.36     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 824.2           | 27.88                 | -4.90      | 20.83     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 824.2           | 26.87                 | -4.90      | 19.82     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 836.6           | 32.02                 | -4.90      | 24.97     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 836.6           | 29.56                 | -4.90      | 22.51     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 836.6           | 28.04                 | -4.90      | 20.99     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 836.6           | 27.04                 | -4.90      | 19.99     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 848.8           | 31.92                 | -4.90      | 24.87     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 848.8           | 29.50                 | -4.90      | 22.45     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 848.8           | 27.99                 | -4.90      | 20.94     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 848.8           | 26.98                 | -4.90      | 19.93     | <=38.45 | Pass    |
|              | EGPRS   | 1 TX Slot  | 824.2           | 26.38                 | -4.90      | 19.33     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 824.2           | 25.33                 | -4.90      | 18.28     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 824.2           | 22.72                 | -4.90      | 15.67     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 824.2           | 20.83                 | -4.90      | 13.78     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 836.6           | 26.24                 | -4.90      | 19.19     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 836.6           | 24.89                 | -4.90      | 17.84     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 836.6           | 22.72                 | -4.90      | 15.67     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 836.6           | 20.65                 | -4.90      | 13.60     | <=38.45 | Pass    |
|              |         | 1 TX Slot  | 848.8           | 26.21                 | -4.90      | 19.16     | <=38.45 | Pass    |
|              |         | 2 TX Slots | 848.8           | 25.00                 | -4.90      | 17.95     | <=38.45 | Pass    |
|              |         | 3 TX Slots | 848.8           | 22.72                 | -4.90      | 15.67     | <=38.45 | Pass    |
|              |         | 4 TX Slots | 848.8           | 22.74                 | -4.90      | 15.69     | <=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         | 3.4           | -3.242           | -0.0039               | -2.5 to 2.5 | Pass    |
|              |                 |            | 3.92          | -5.054           | -0.0061               | -2.5 to 2.5 | Pass    |
|              |                 |            | 4.5           | -4.674           | -0.0057               | -2.5 to 2.5 | Pass    |
|              |                 | -30        | 3.92          | -0.647           | -0.0008               | -2.5 to 2.5 | Pass    |
|              |                 | -20        | 3.92          | -5.677           | -0.0069               | -2.5 to 2.5 | Pass    |
|              |                 | -10        | 3.92          | 0.248            | 0.0003                | -2.5 to 2.5 | Pass    |
|              |                 | 0          | 3.92          | -1.493           | -0.0018               | -2.5 to 2.5 | Pass    |
|              |                 | 10         | 3.92          | 3.324            | 0.0040                | -2.5 to 2.5 | Pass    |
|              |                 | 30         | 3.92          | -5.195           | -0.0063               | -2.5 to 2.5 | Pass    |

|       |       |     |      |         |         |             |      |
|-------|-------|-----|------|---------|---------|-------------|------|
|       |       | 40  | 3.92 | -7.820  | -0.0095 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -4.859  | -0.0059 | -2.5 to 2.5 | Pass |
|       | 836.6 | 20  | 3.4  | -4.231  | -0.0051 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -0.485  | -0.0006 | -2.5 to 2.5 | Pass |
|       |       |     | 4.5  | 0.081   | 0.0001  | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.92 | 0.462   | 0.0006  | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.92 | 2.106   | 0.0025  | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.92 | -0.234  | -0.0003 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.92 | -4.944  | -0.0059 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.92 | 1.917   | 0.0023  | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.92 | -2.274  | -0.0027 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.92 | -1.491  | -0.0018 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -8.199  | -0.0098 | -2.5 to 2.5 | Pass |
|       | 848.8 | 20  | 3.4  | -5.054  | -0.0060 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -2.009  | -0.0024 | -2.5 to 2.5 | Pass |
|       |       |     | 4.5  | 0.135   | 0.0002  | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.92 | -2.026  | -0.0024 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.92 | -1.479  | -0.0017 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.92 | -4.920  | -0.0058 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.92 | -4.977  | -0.0059 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.92 | -2.092  | -0.0025 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.92 | -2.294  | -0.0027 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.92 | -5.874  | -0.0069 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -7.254  | -0.0085 | -2.5 to 2.5 | Pass |
| GPRS  | 824.2 | 20  | 3.4  | -6.038  | -0.0073 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -4.309  | -0.0052 | -2.5 to 2.5 | Pass |
|       |       |     | 4.5  | -4.203  | -0.0051 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.92 | -5.155  | -0.0063 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.92 | -6.895  | -0.0084 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.92 | -7.432  | -0.0090 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.92 | -2.441  | -0.0030 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.92 | -5.172  | -0.0063 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.92 | -4.297  | -0.0052 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.92 | -7.082  | -0.0086 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -4.527  | -0.0055 | -2.5 to 2.5 | Pass |
|       | 836.6 | 20  | 3.4  | -6.120  | -0.0073 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -6.835  | -0.0082 | -2.5 to 2.5 | Pass |
|       |       |     | 4.5  | -5.679  | -0.0068 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.92 | -6.144  | -0.0073 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.92 | -5.335  | -0.0064 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.92 | -5.732  | -0.0069 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.92 | -7.054  | -0.0084 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.92 | -5.196  | -0.0062 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.92 | -5.610  | -0.0067 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.92 | -4.999  | -0.0060 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -4.020  | -0.0048 | -2.5 to 2.5 | Pass |
|       | 848.8 | 20  | 3.4  | -5.212  | -0.0061 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -4.069  | -0.0048 | -2.5 to 2.5 | Pass |
|       |       |     | 4.5  | -5.398  | -0.0064 | -2.5 to 2.5 | Pass |
|       |       | -30 | 3.92 | -7.422  | -0.0087 | -2.5 to 2.5 | Pass |
|       |       | -20 | 3.92 | -6.361  | -0.0075 | -2.5 to 2.5 | Pass |
|       |       | -10 | 3.92 | -8.542  | -0.0101 | -2.5 to 2.5 | Pass |
|       |       | 0   | 3.92 | -10.284 | -0.0121 | -2.5 to 2.5 | Pass |
|       |       | 10  | 3.92 | -9.680  | -0.0114 | -2.5 to 2.5 | Pass |
|       |       | 30  | 3.92 | -10.739 | -0.0127 | -2.5 to 2.5 | Pass |
|       |       | 40  | 3.92 | -9.818  | -0.0116 | -2.5 to 2.5 | Pass |
|       |       | 50  | 3.92 | -9.350  | -0.0110 | -2.5 to 2.5 | Pass |
| EGPRS | 824.2 | 20  | 3.4  | -6.284  | -0.0076 | -2.5 to 2.5 | Pass |
|       |       |     | 3.92 | -4.677  | -0.0057 | -2.5 to 2.5 | Pass |

|  |       |     |      |        |         |             |      |
|--|-------|-----|------|--------|---------|-------------|------|
|  |       |     | 4.5  | -3.308 | -0.0040 | -2.5 to 2.5 | Pass |
|  |       | -30 | 3.92 | -3.633 | -0.0044 | -2.5 to 2.5 | Pass |
|  |       | -20 | 3.92 | -3.849 | -0.0047 | -2.5 to 2.5 | Pass |
|  |       | -10 | 3.92 | -4.149 | -0.0050 | -2.5 to 2.5 | Pass |
|  |       | 0   | 3.92 | -7.337 | -0.0089 | -2.5 to 2.5 | Pass |
|  |       | 10  | 3.92 | -7.967 | -0.0097 | -2.5 to 2.5 | Pass |
|  |       | 30  | 3.92 | -5.962 | -0.0072 | -2.5 to 2.5 | Pass |
|  |       | 40  | 3.92 | -5.644 | -0.0068 | -2.5 to 2.5 | Pass |
|  |       | 50  | 3.92 | -5.460 | -0.0066 | -2.5 to 2.5 | Pass |
|  | 836.6 | 20  | 3.4  | -8.125 | -0.0097 | -2.5 to 2.5 | Pass |
|  |       |     | 3.92 | -3.631 | -0.0043 | -2.5 to 2.5 | Pass |
|  |       |     | 4.5  | -1.688 | -0.0020 | -2.5 to 2.5 | Pass |
|  |       | -30 | 3.92 | -1.814 | -0.0022 | -2.5 to 2.5 | Pass |
|  |       | -20 | 3.92 | -4.205 | -0.0050 | -2.5 to 2.5 | Pass |
|  |       | -10 | 3.92 | -6.517 | -0.0078 | -2.5 to 2.5 | Pass |
|  |       | 0   | 3.92 | -2.420 | -0.0029 | -2.5 to 2.5 | Pass |
|  |       | 10  | 3.92 | -4.045 | -0.0048 | -2.5 to 2.5 | Pass |
|  |       | 30  | 3.92 | -6.041 | -0.0072 | -2.5 to 2.5 | Pass |
|  |       | 40  | 3.92 | -6.890 | -0.0082 | -2.5 to 2.5 | Pass |
|  |       | 50  | 3.92 | -4.138 | -0.0049 | -2.5 to 2.5 | Pass |
|  | 848.8 | 20  | 3.4  | -5.560 | -0.0066 | -2.5 to 2.5 | Pass |
|  |       |     | 3.92 | -4.219 | -0.0050 | -2.5 to 2.5 | Pass |
|  |       |     | 4.5  | -3.732 | -0.0044 | -2.5 to 2.5 | Pass |
|  |       | -30 | 3.92 | -4.407 | -0.0052 | -2.5 to 2.5 | Pass |
|  |       | -20 | 3.92 | -7.326 | -0.0086 | -2.5 to 2.5 | Pass |
|  |       | -10 | 3.92 | -7.038 | -0.0083 | -2.5 to 2.5 | Pass |
|  |       | 0   | 3.92 | -4.522 | -0.0053 | -2.5 to 2.5 | Pass |
|  |       | 10  | 3.92 | -7.149 | -0.0084 | -2.5 to 2.5 | Pass |
|  |       | 30  | 3.92 | -8.930 | -0.0105 | -2.5 to 2.5 | Pass |
|  |       | 40  | 3.92 | -3.483 | -0.0041 | -2.5 to 2.5 | Pass |
|  |       | 50  | 3.92 | -4.882 | -0.0058 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 GSM850\_OBW

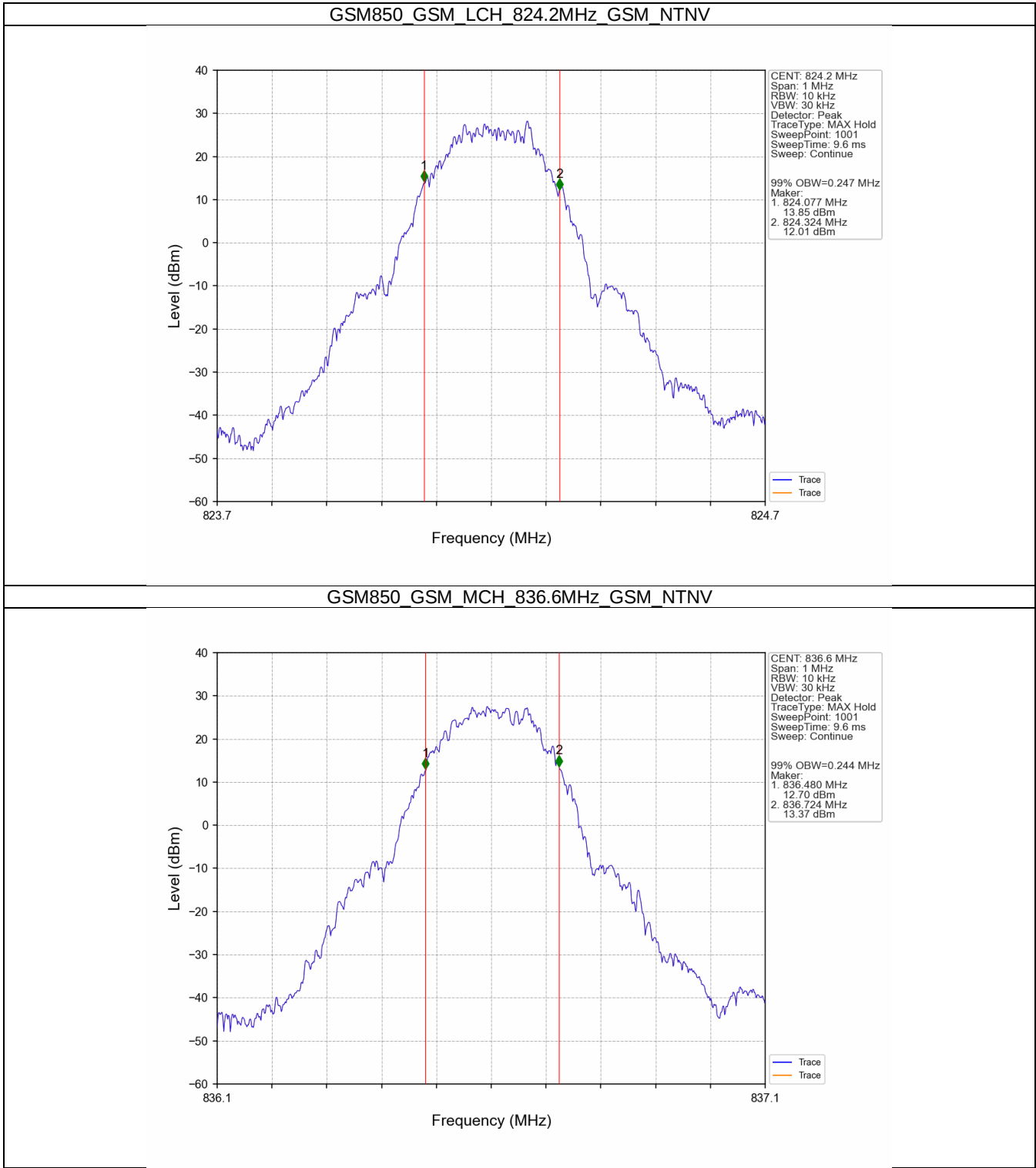
| Band: GSM850 |         |           |                 |                              |       |         |
|--------------|---------|-----------|-----------------|------------------------------|-------|---------|
| ENV          | Mode    |           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|              | Network | Subset    |                 | Result                       | Limit |         |
| NTNV         | GSM     | GSM       | 824.2           | 0.247                        | /     | Pass    |
|              |         |           | 836.6           | 0.244                        | /     | Pass    |
|              |         |           | 848.8           | 0.243                        | /     | Pass    |
|              | GPRS    | 1 TX Slot | 824.2           | 0.244                        | /     | Pass    |
|              |         |           | 836.6           | 0.248                        | /     | Pass    |
|              |         |           | 848.8           | 0.250                        | /     | Pass    |
|              | EGPRS   | 1 TX Slot | 824.2           | 0.244                        | /     | Pass    |
|              |         |           | 836.6           | 0.245                        | /     | Pass    |
|              |         |           | 848.8           | 0.236                        | /     | Pass    |

##### 3.1.2 GSM850\_XDB

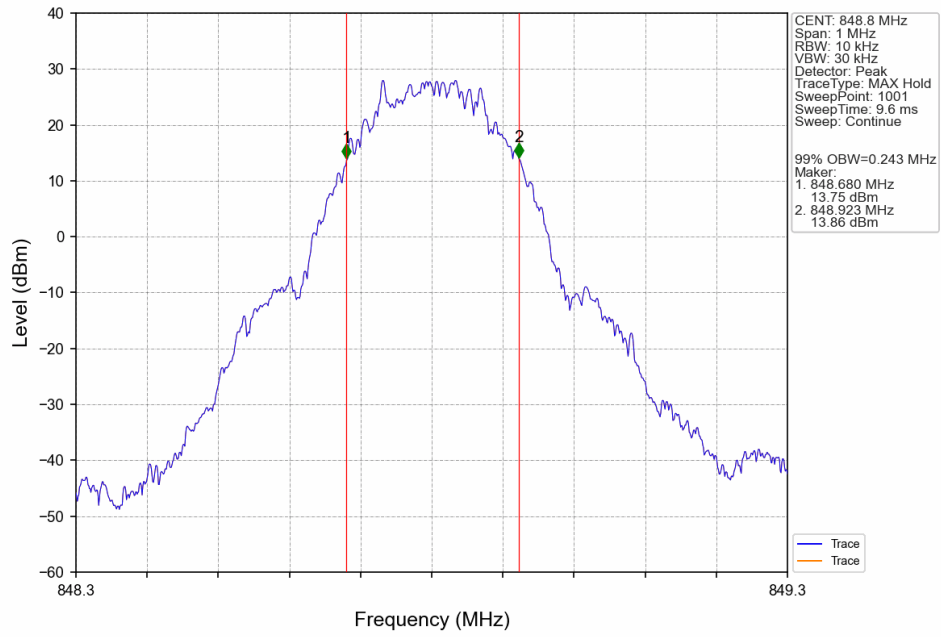
| Band: GSM850 |         |           |                 |                      |       |         |
|--------------|---------|-----------|-----------------|----------------------|-------|---------|
| ENV          | Mode    |           | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|              | Network | Subset    |                 | Result               | Limit |         |
| NTNV         | GSM     | GSM       | 824.2           | 0.316                | /     | Pass    |
|              |         |           | 836.6           | 0.323                | /     | Pass    |
|              |         |           | 848.8           | 0.320                | /     | Pass    |
|              | GPRS    | 1 TX Slot | 824.2           | 0.315                | /     | Pass    |
|              |         |           | 836.6           | 0.317                | /     | Pass    |
|              |         |           | 848.8           | 0.326                | /     | Pass    |
|              | EGPRS   | 1 TX Slot | 824.2           | 0.305                | /     | Pass    |
|              |         |           | 836.6           | 0.312                | /     | Pass    |
|              |         |           | 848.8           | 0.301                | /     | Pass    |

# 3.2 Test Graph

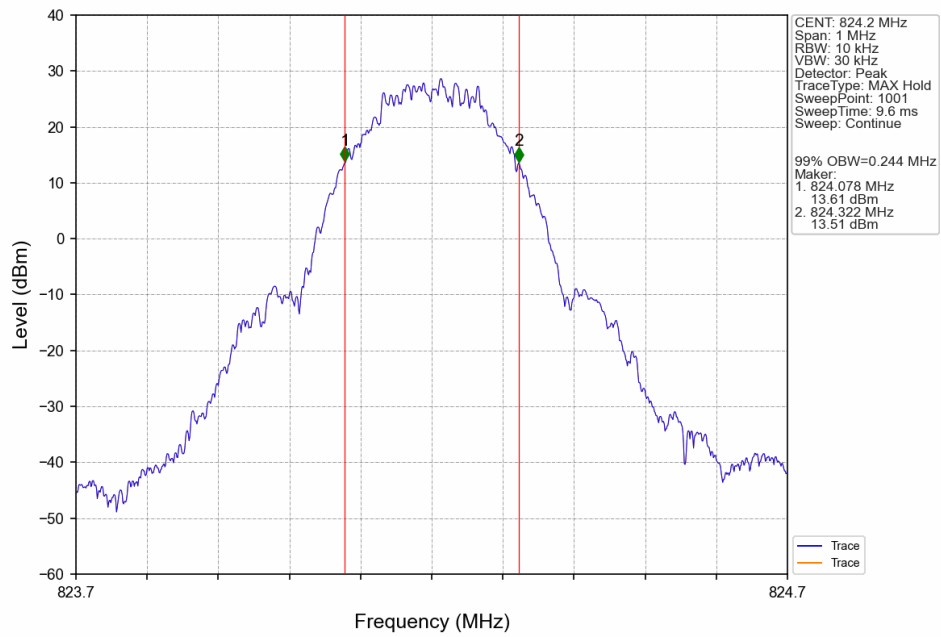
## 3.2.1 GSM850\_OBW



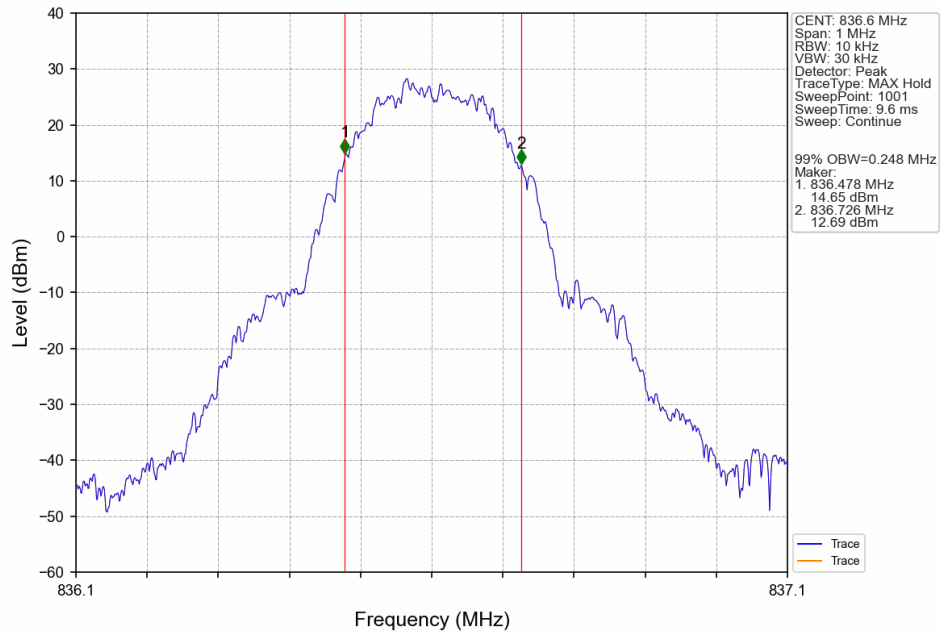
# GSM850 GSM HCH 848.8MHz GSM NTNV



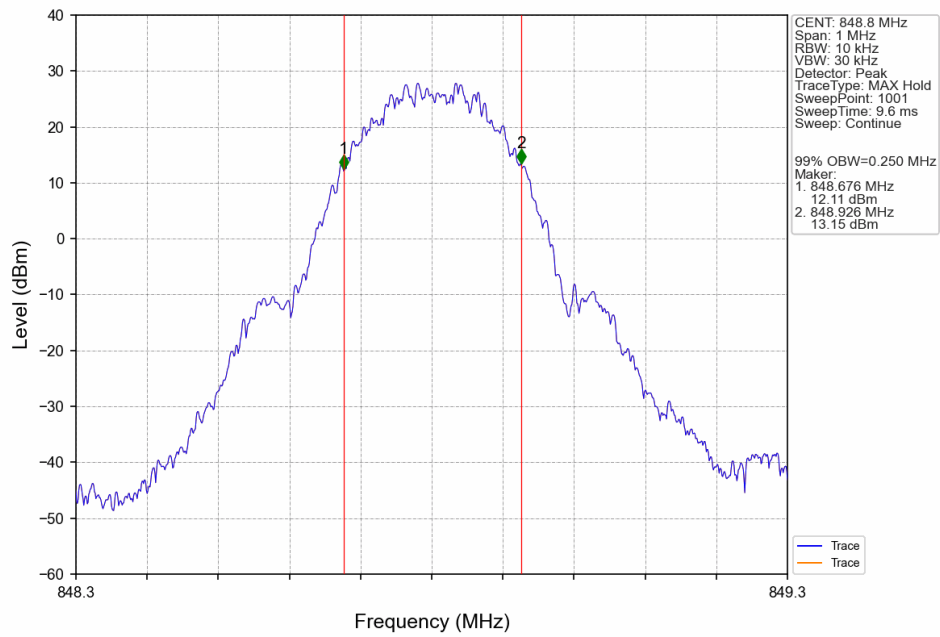
# GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



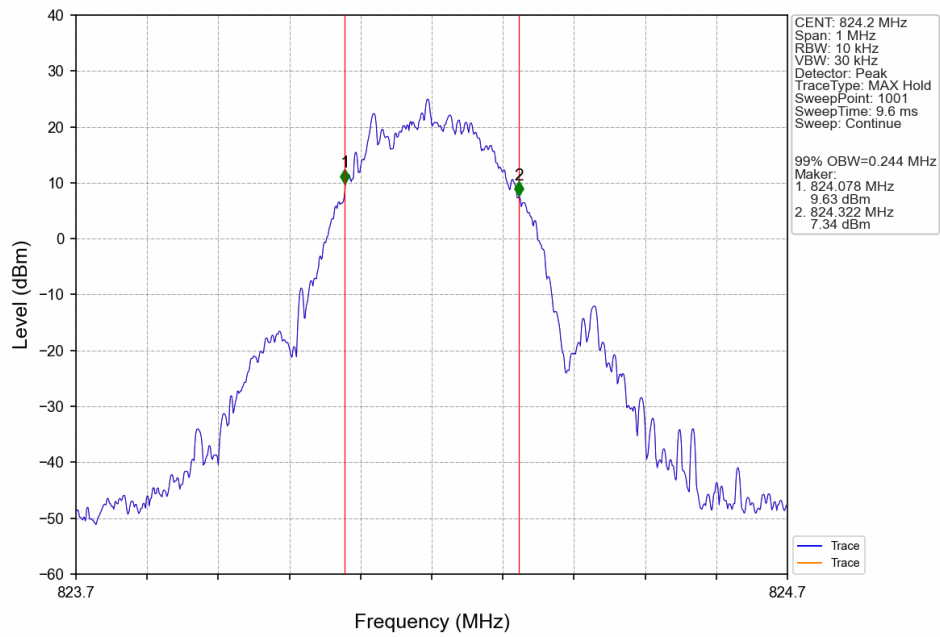
# GSM850\_GPRS\_MCH\_836.6MHz\_1\_TX\_Slot\_NTNV



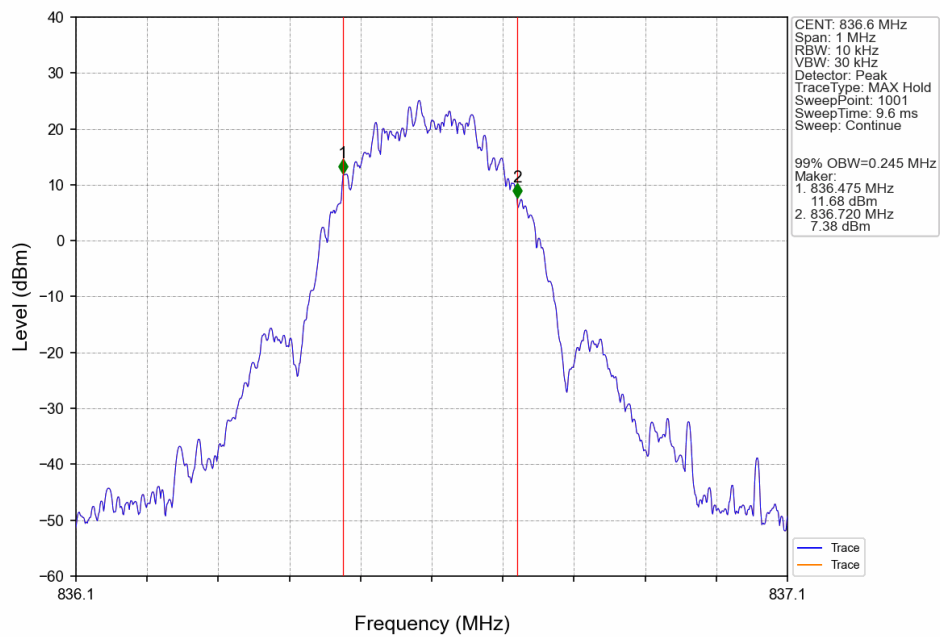
# GSM850\_GPRS\_HCH\_848.8MHz\_1\_TX\_Slot\_NTNV



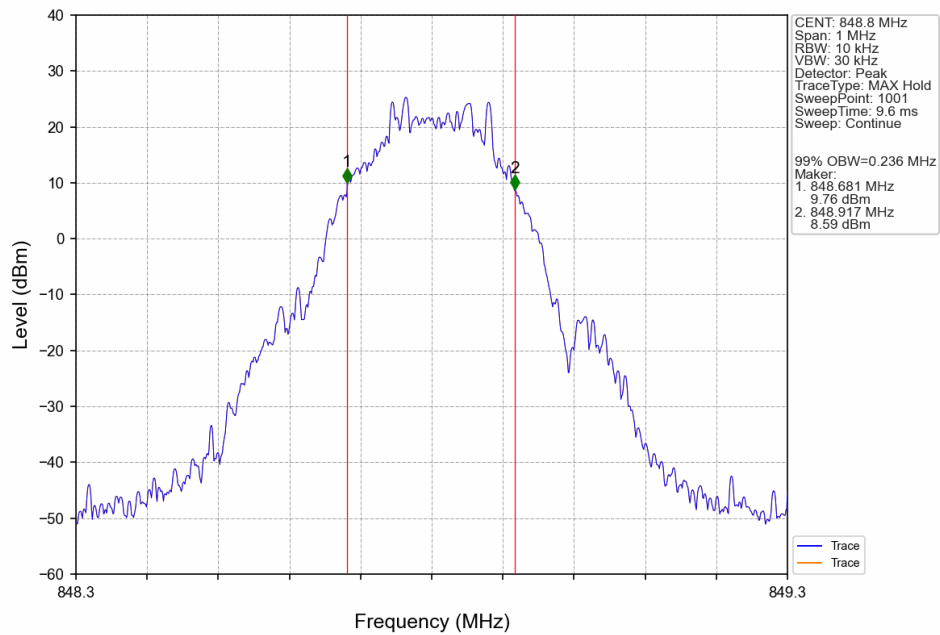
# GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



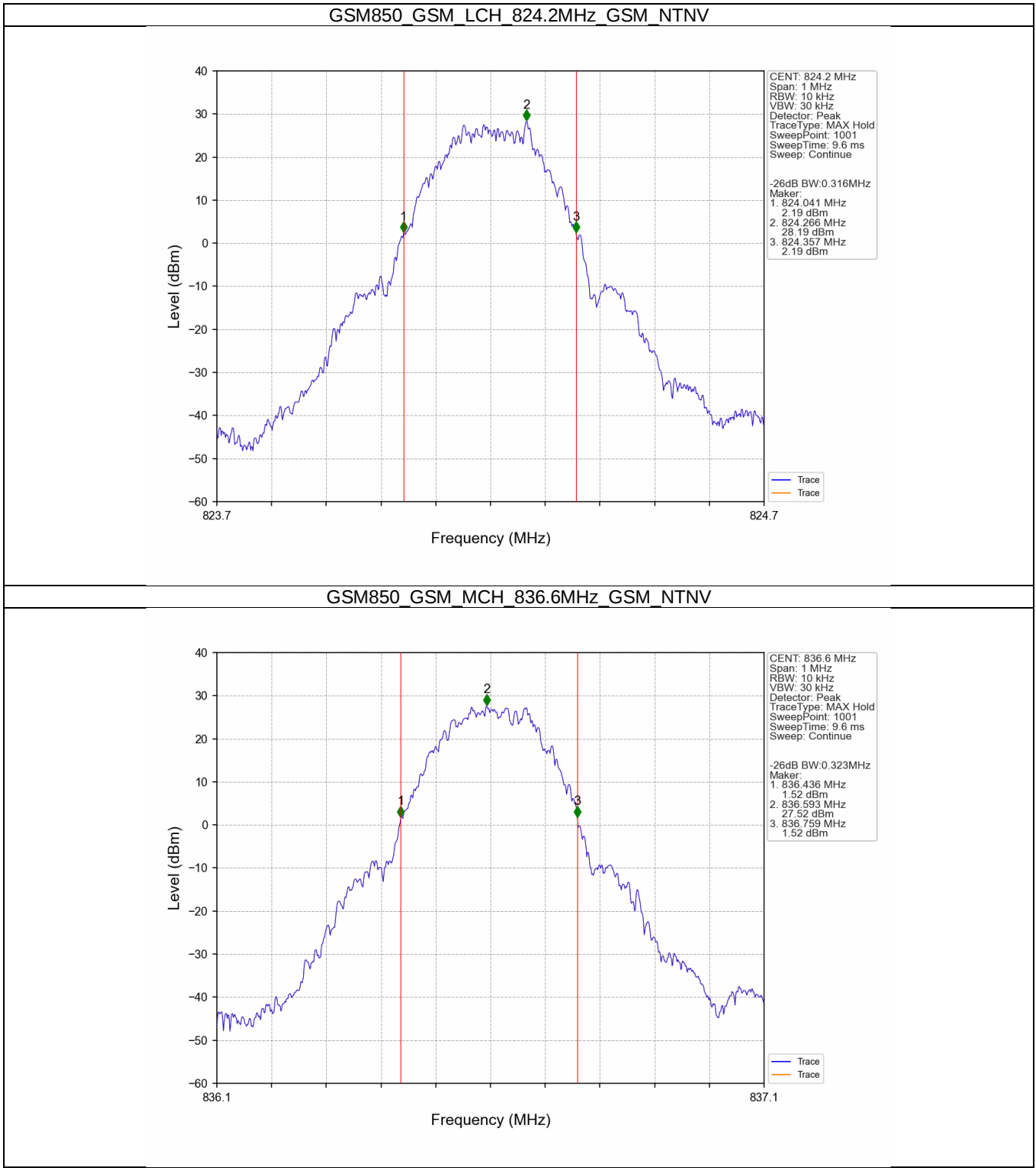
# GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



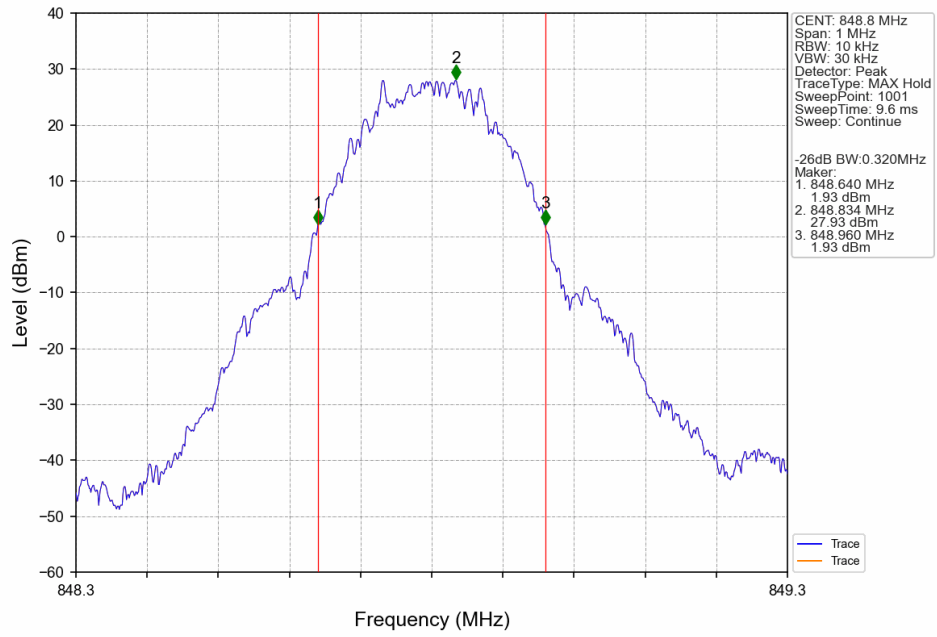
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



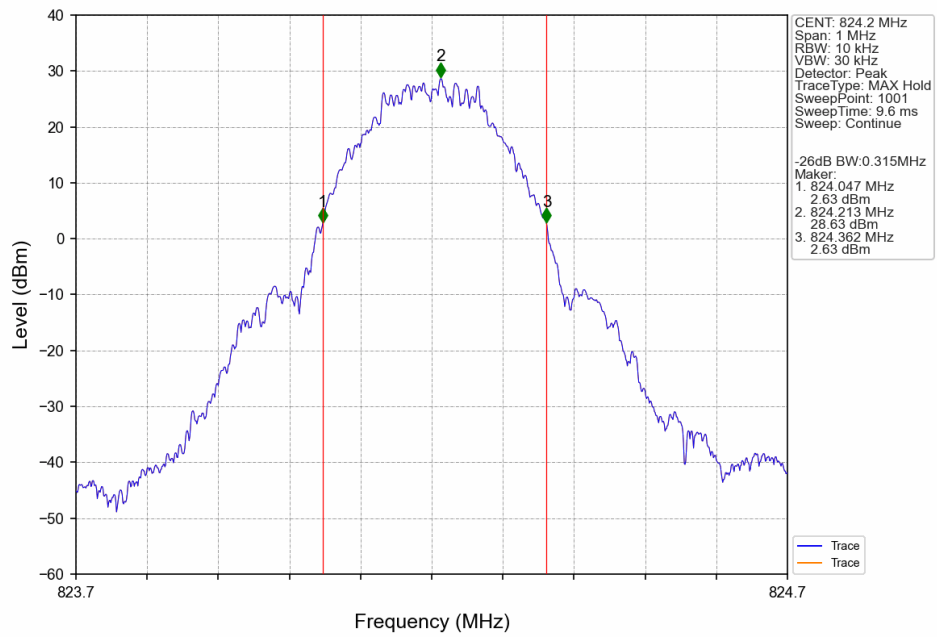
3.2.2 GSM850\_XDB



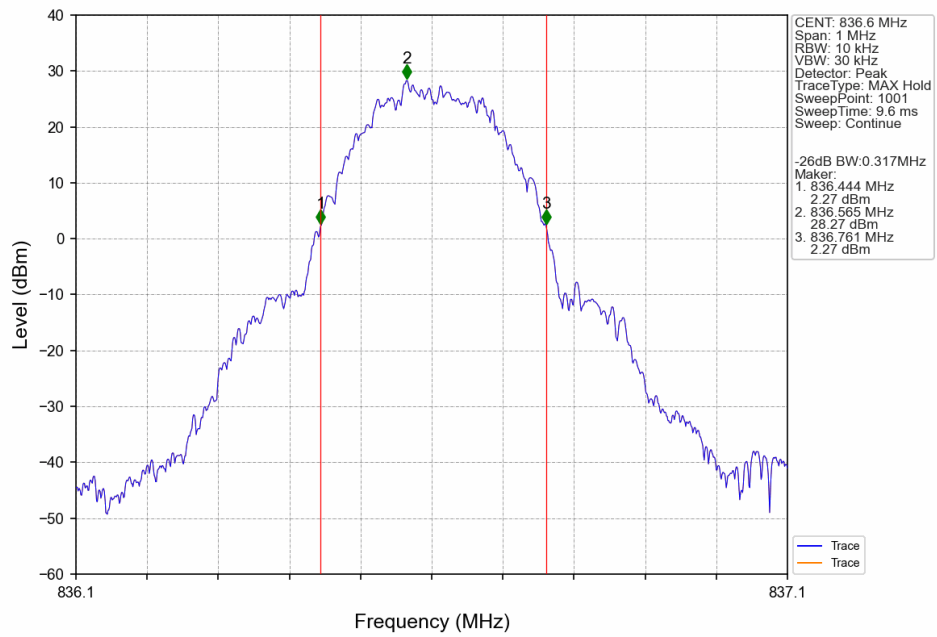
# GSM850 GSM HCH 848.8MHz GSM NTN



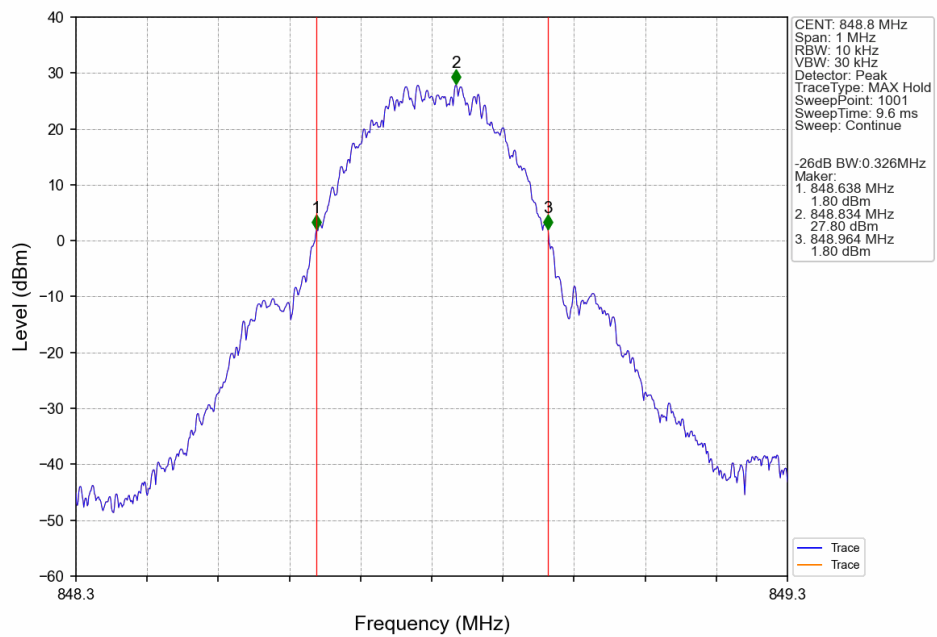
# GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTN



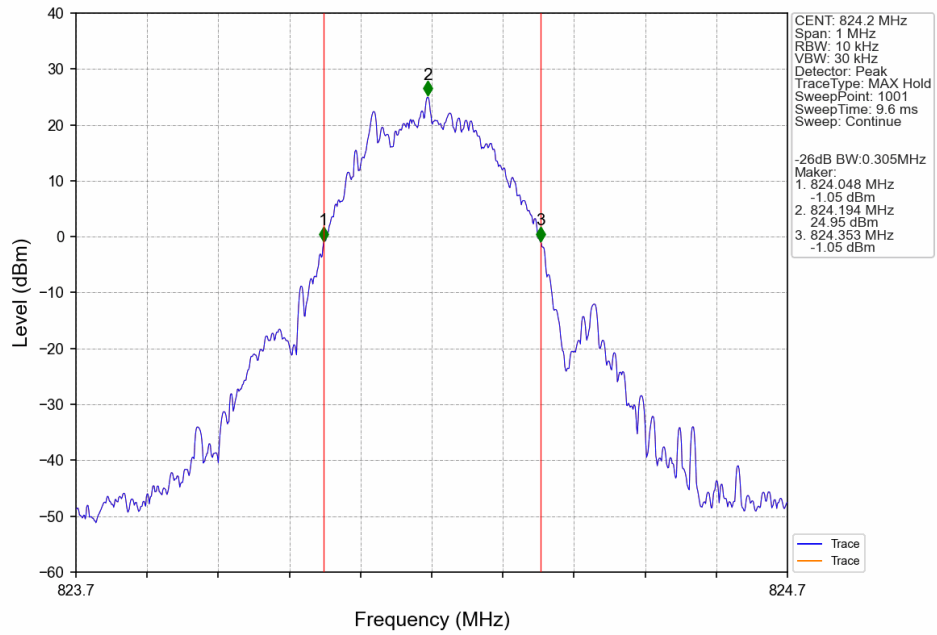
# GSM850\_GPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV



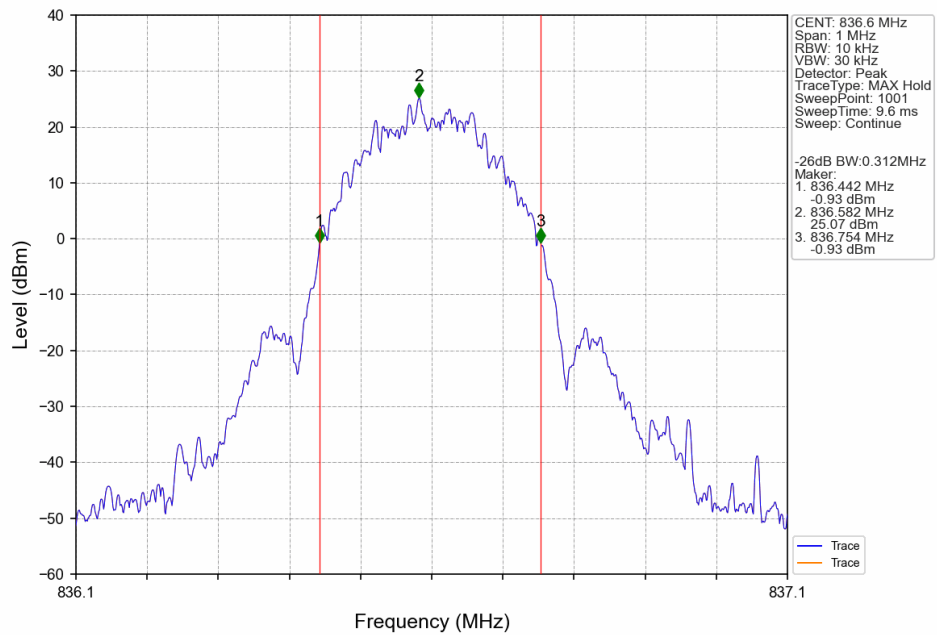
# GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



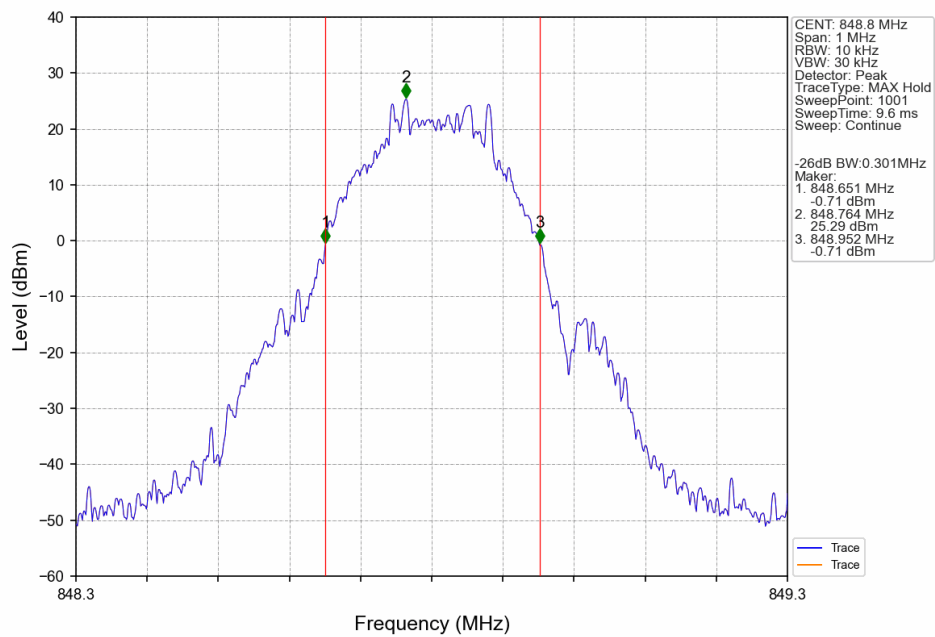
# GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



# GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

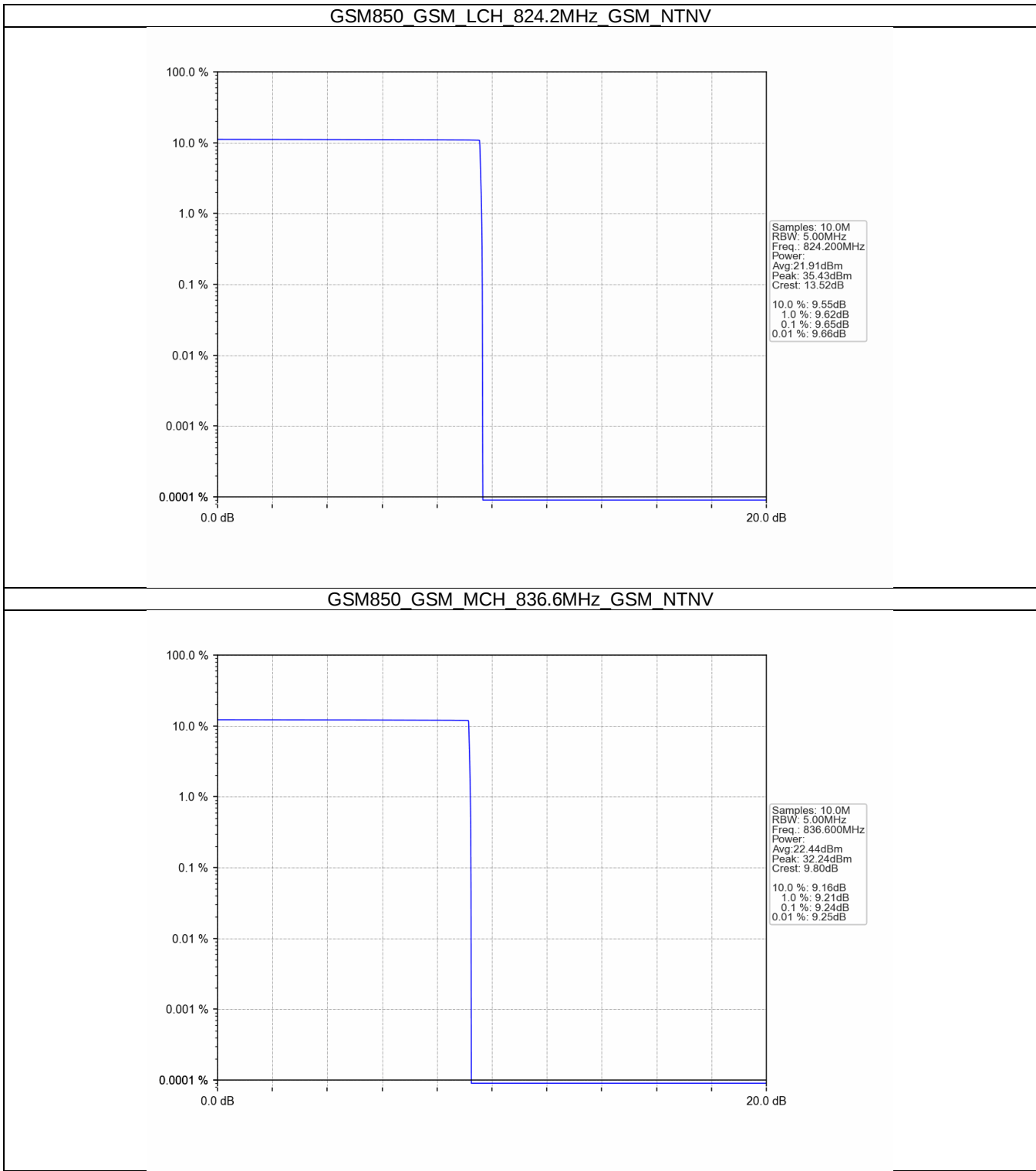
4.1 Test Result

4.1.1 GSM850

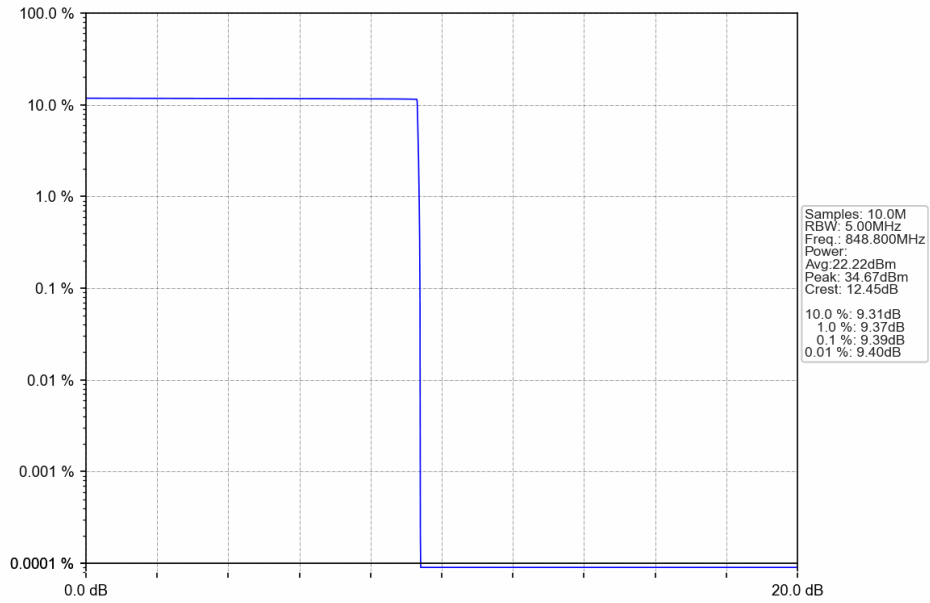
| Band: GSM850 |         |            |                    |                         |       |         |
|--------------|---------|------------|--------------------|-------------------------|-------|---------|
| ENV          | Mode    |            | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|              | Network | Subset     |                    | Result                  | Limit |         |
| NTNV         | GSM     | GSM        | 824.2              | 9.65                    | <=13  | Pass    |
|              |         |            | 836.6              | 9.24                    | <=13  | Pass    |
|              |         |            | 848.8              | 9.39                    | <=13  | Pass    |
|              | GPRS    | 4 TX Slots | 824.2              | 3.56                    | <=13  | Pass    |
|              |         |            | 836.6              | 3.60                    | <=13  | Pass    |
|              |         |            | 848.8              | 3.50                    | <=13  | Pass    |
|              | EGPRS   | 4 TX Slots | 824.2              | 9.45                    | <=13  | Pass    |
|              |         |            | 836.6              | 9.62                    | <=13  | Pass    |
|              |         |            | 848.8              | 9.59                    | <=13  | Pass    |

4.2 Test Graph

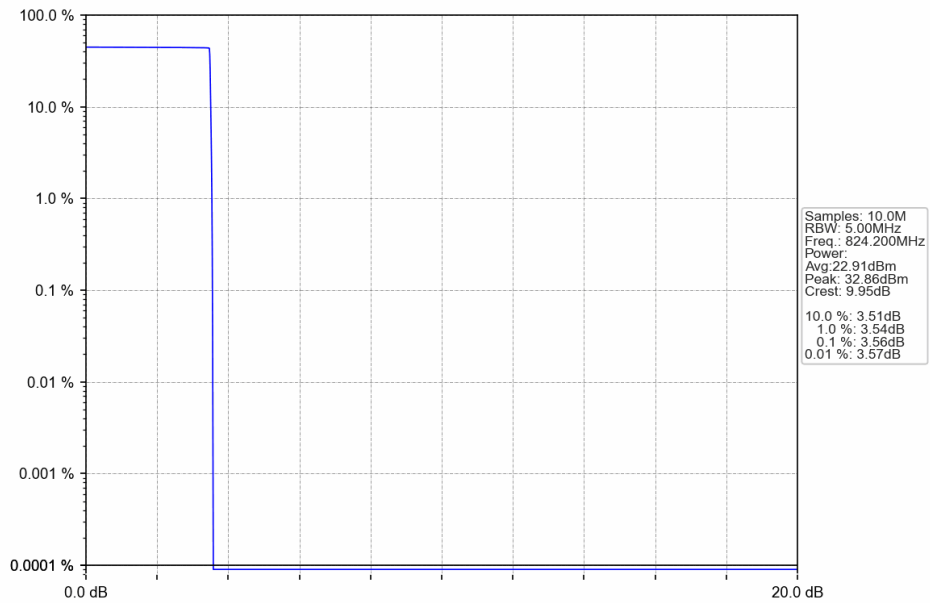
4.2.1 GSM850



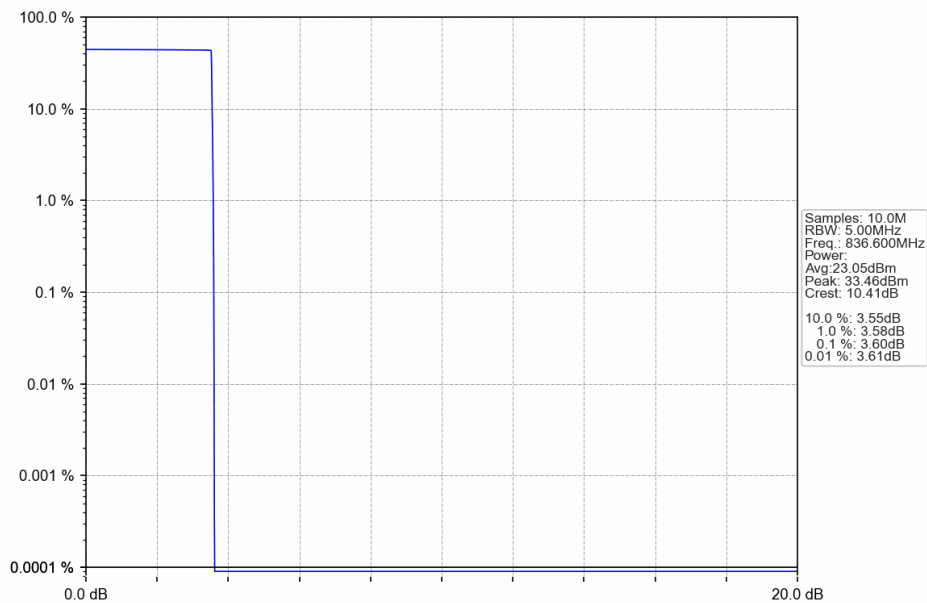
# GSM850 GSM HCH 848.8MHz GSM NTN



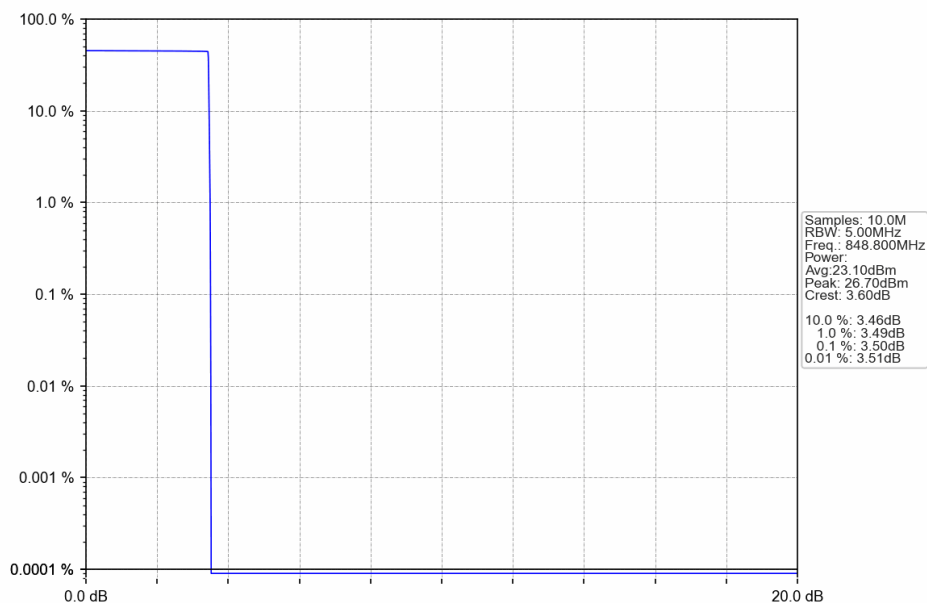
# GSM850\_GPRS\_LCH\_824.2MHz\_4 TX Slots\_NTN



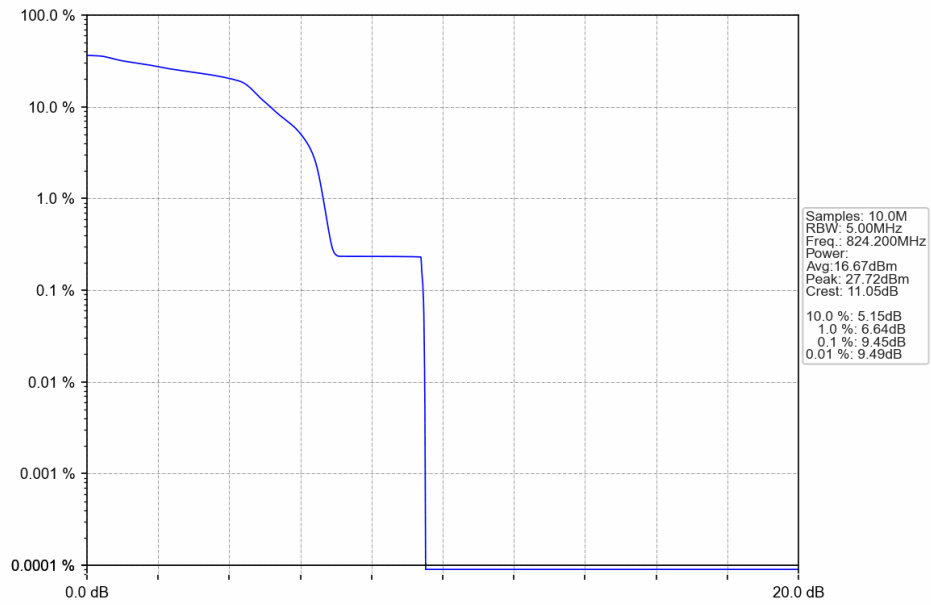
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTN



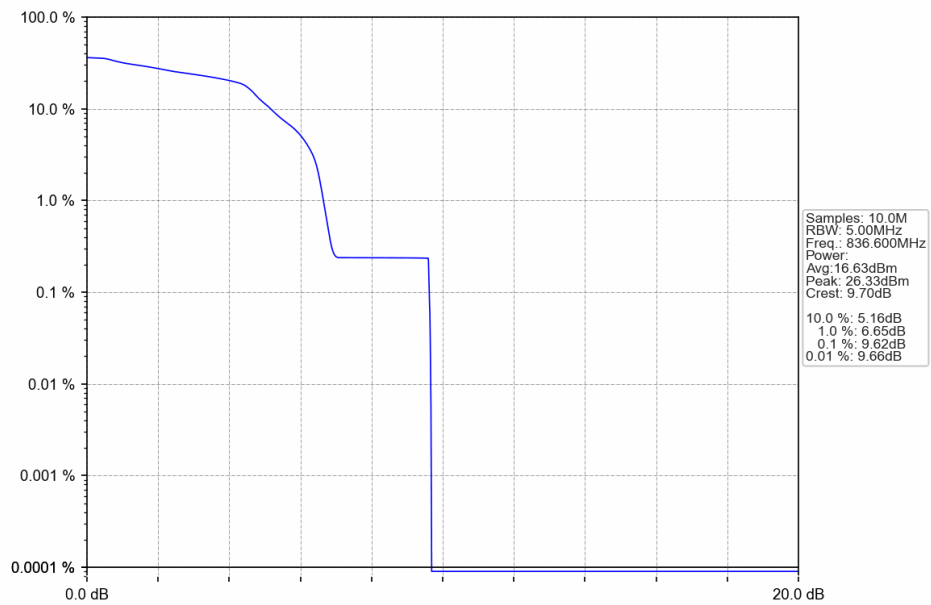
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTN



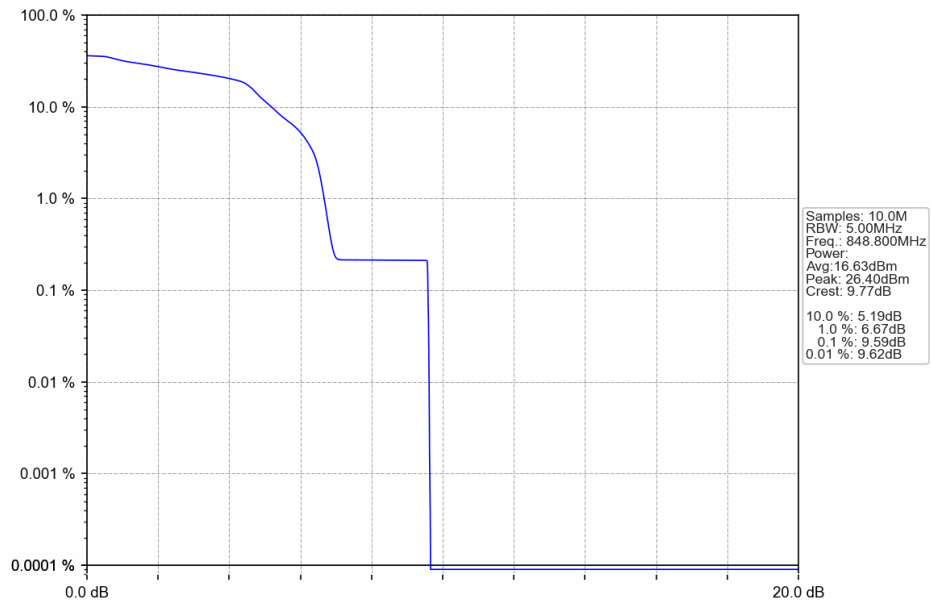
# GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTNV



# GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTNV



# GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



## 5. Spurious Emission

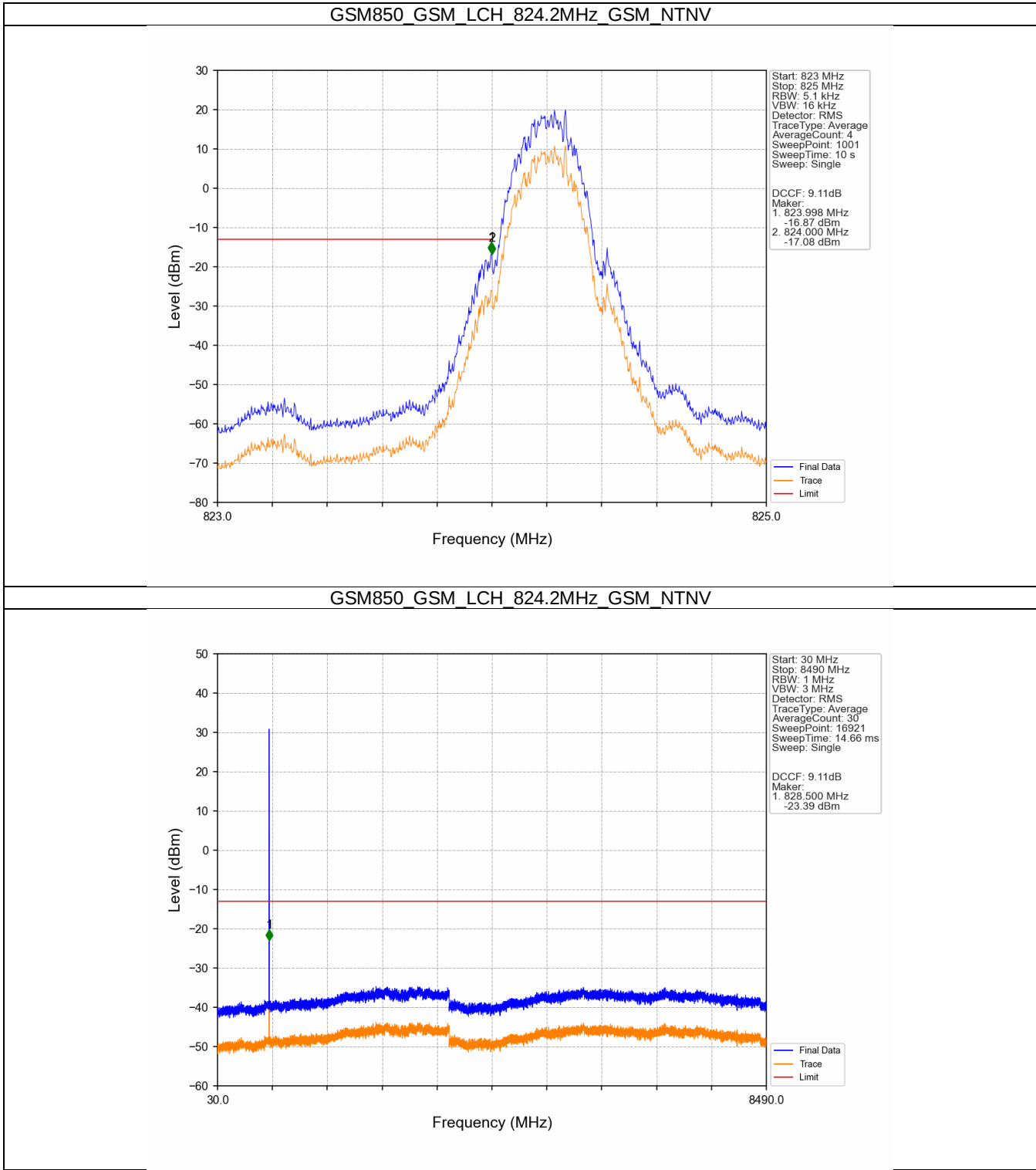
### 5.1 Test Result

#### 5.1.1 GSM850

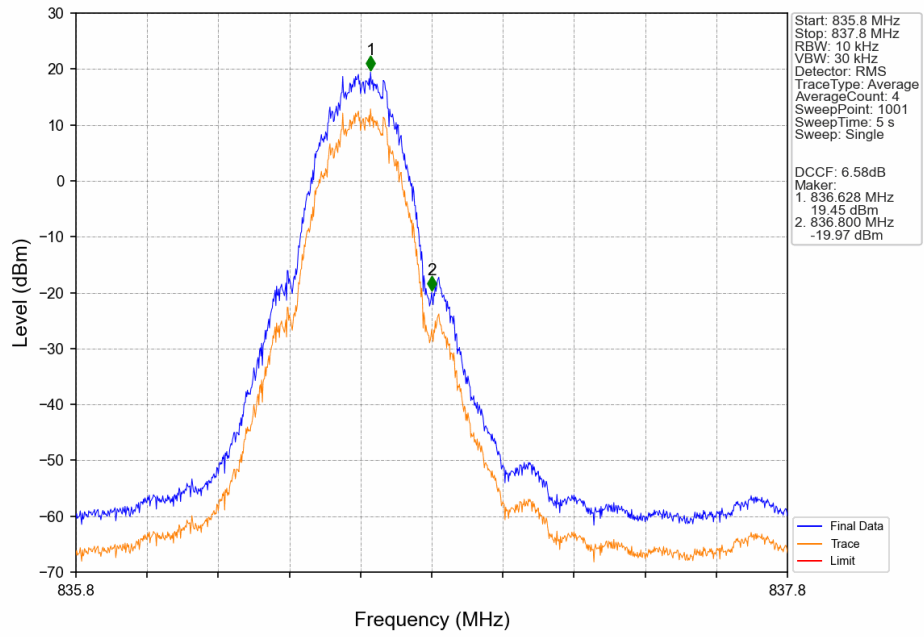
| Band: GSM850 |         |           |                    |                     |       |         |
|--------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV          | Mode    |           | Frequency<br>(MHz) | Spurious Emission   |       | Verdict |
|              | 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

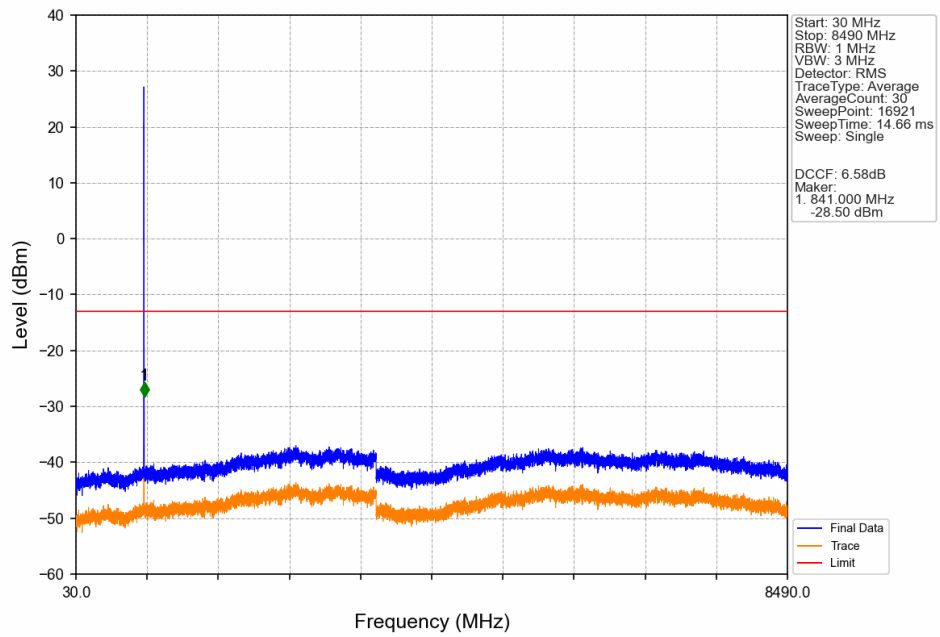
## 5.2.1 GSM850



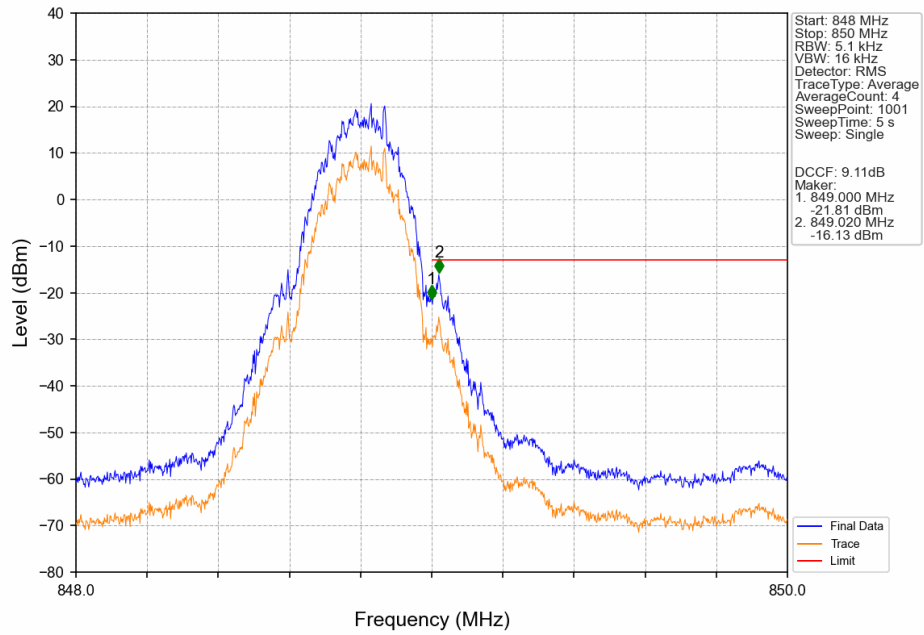
# GSM850 GSM MCH 836.6MHz GSM NTNV



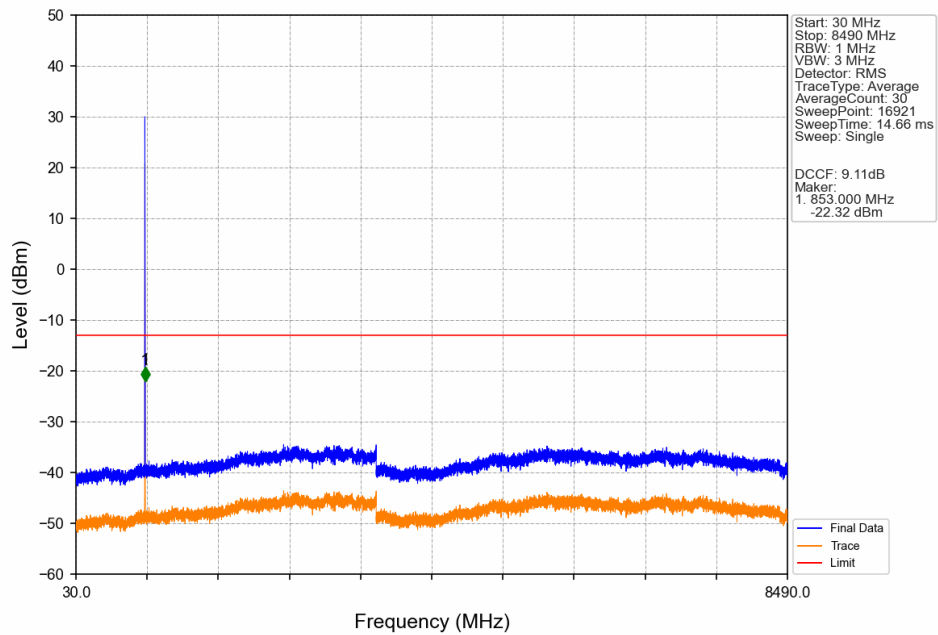
# GSM850\_GSM\_MCH\_836.6MHz\_GSM\_NTNV



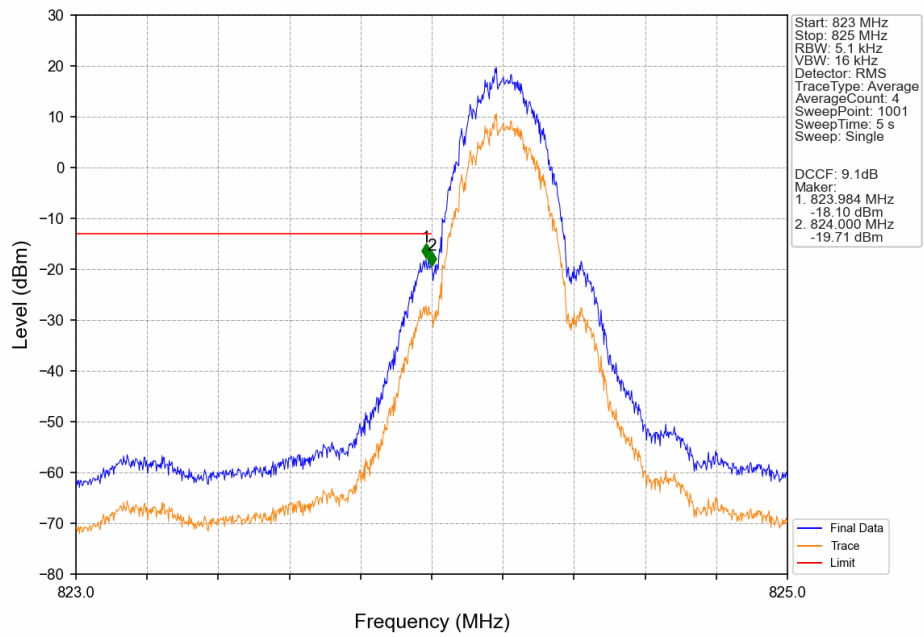
# GSM850 GSM HCH 848.8MHz GSM NTNV



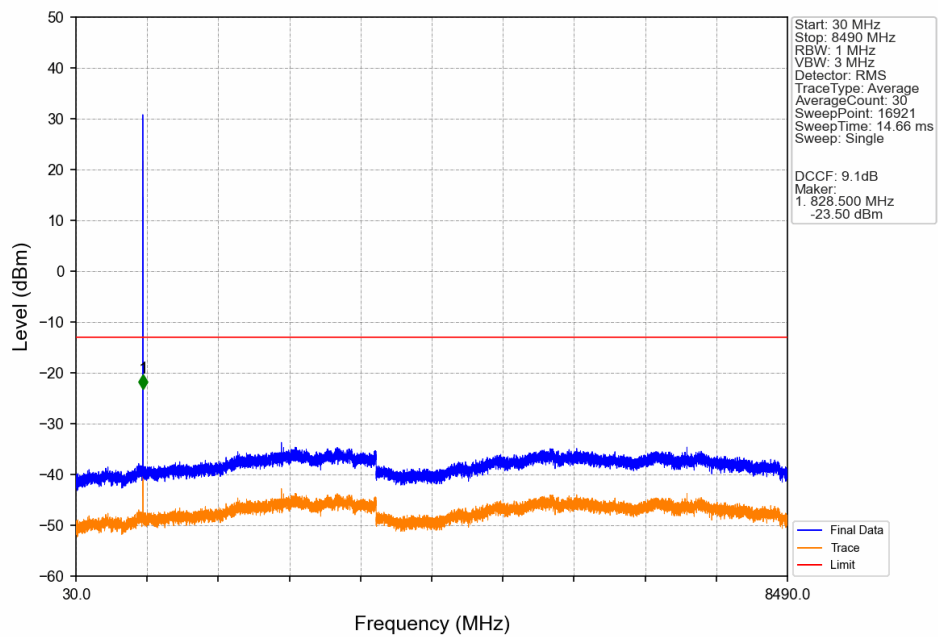
# GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



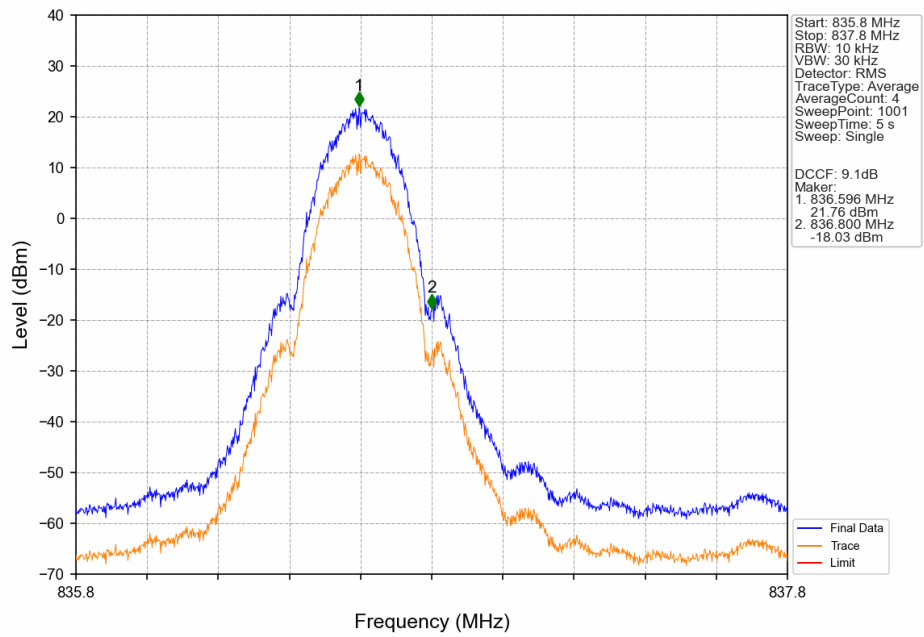
# GSM850 GPRS LCH 824.2MHz 1 TX Slot NTN



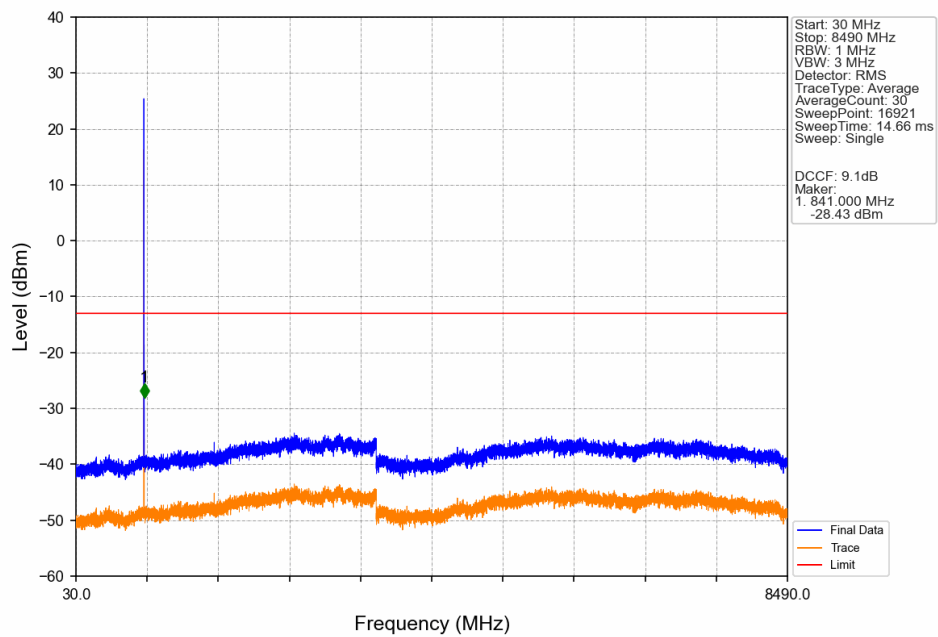
# GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot NTN



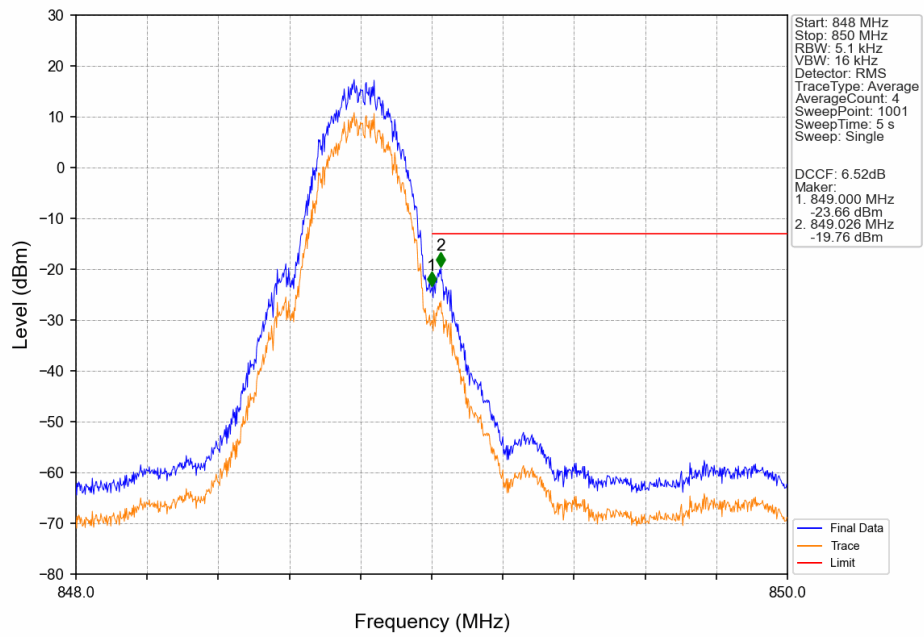
# GSM850\_GPRS\_MCH\_836.6MHz\_1\_TX\_Slot\_NTNV



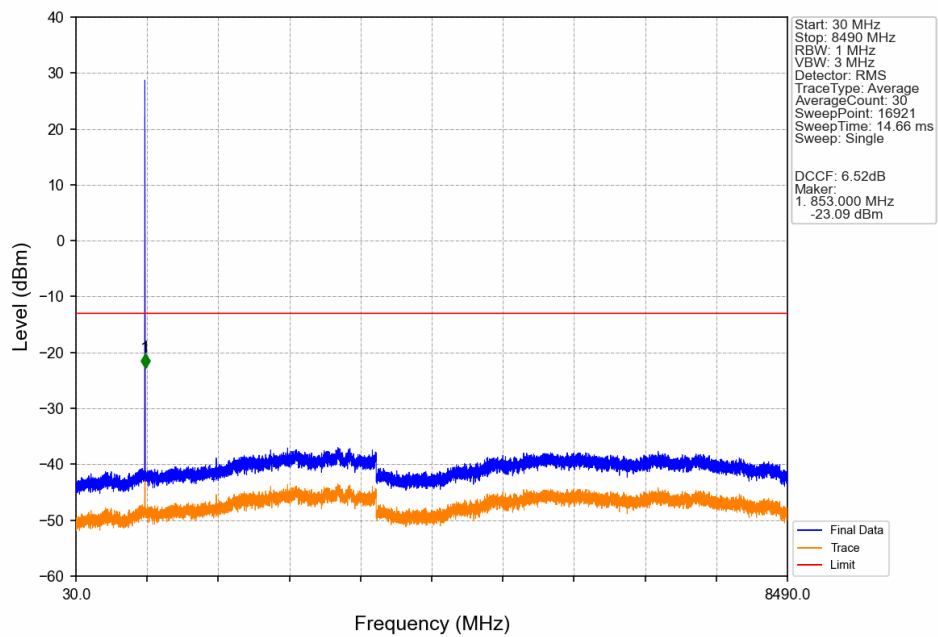
# GSM850\_GPRS\_MCH\_836.6MHz\_1\_TX\_Slot\_NTNV



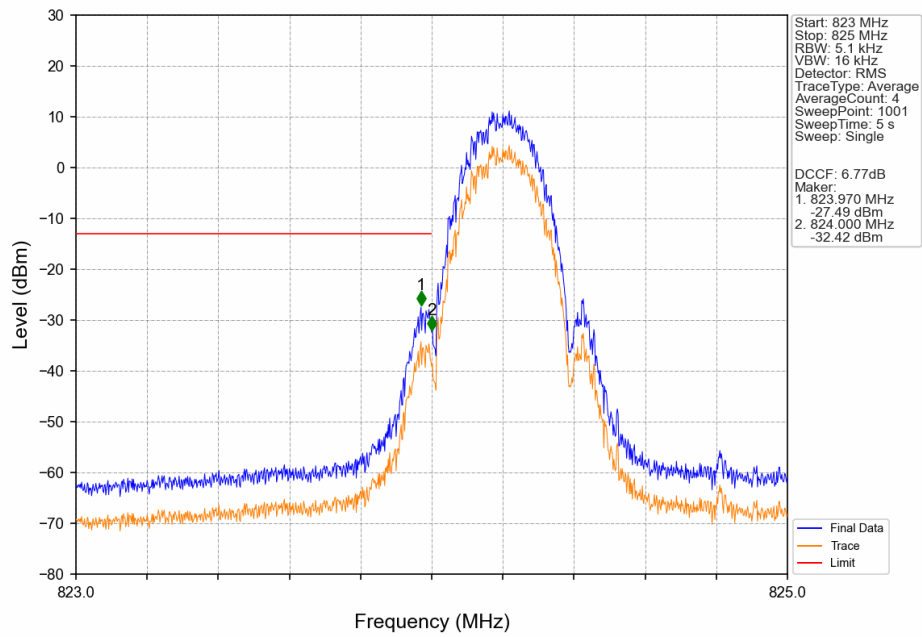
# GSM850\_GPRS\_HCH\_848.8MHz\_1\_TX\_Slot\_NTNV



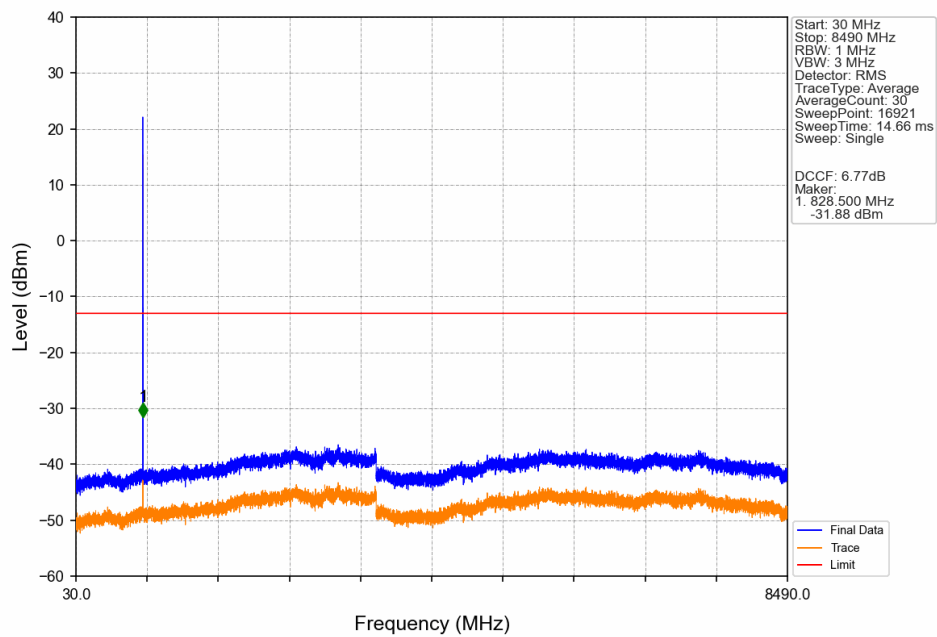
# GSM850\_GPRS\_HCH\_848.8MHz\_1\_TX\_Slot\_NTNV



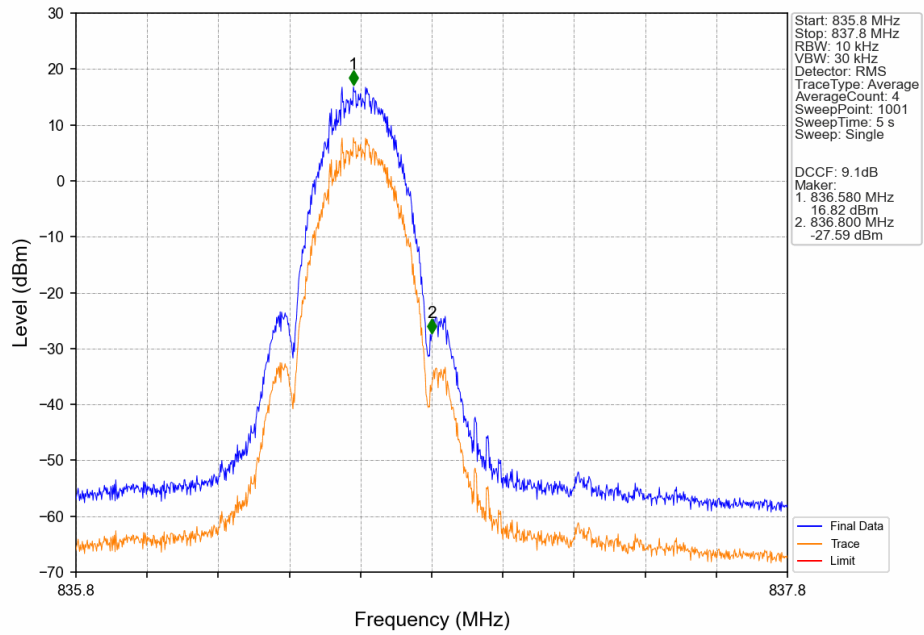
# GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



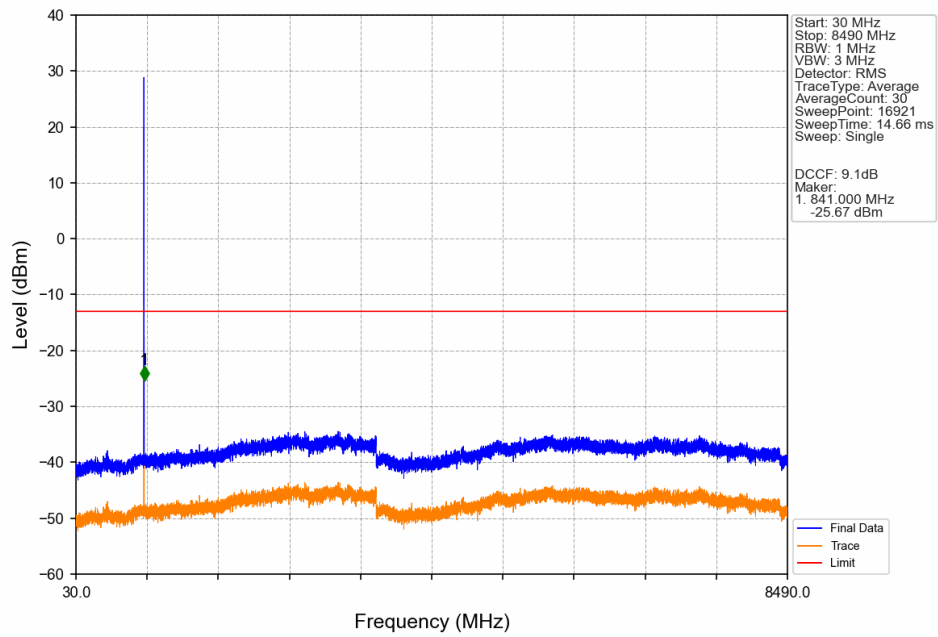
# GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



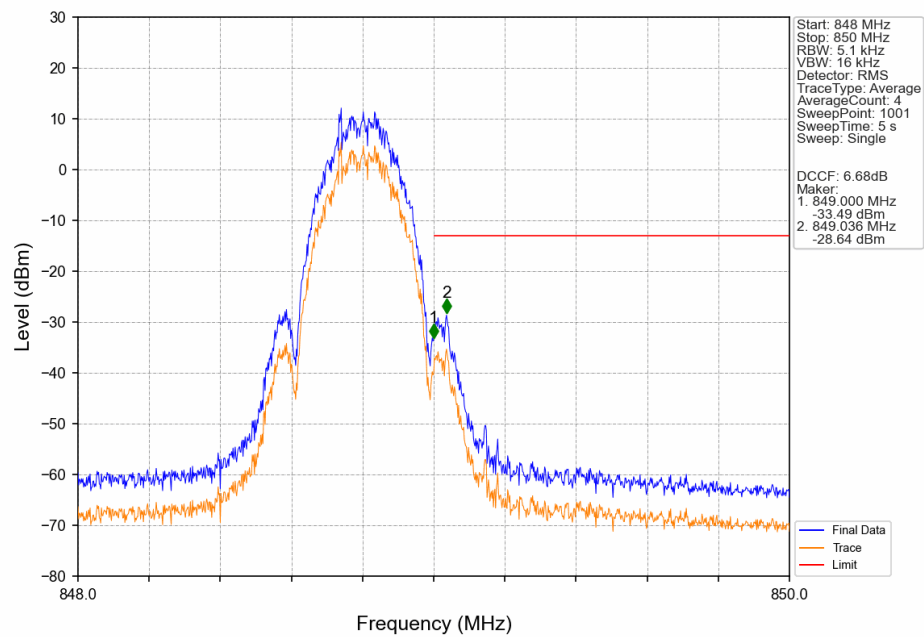
# GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



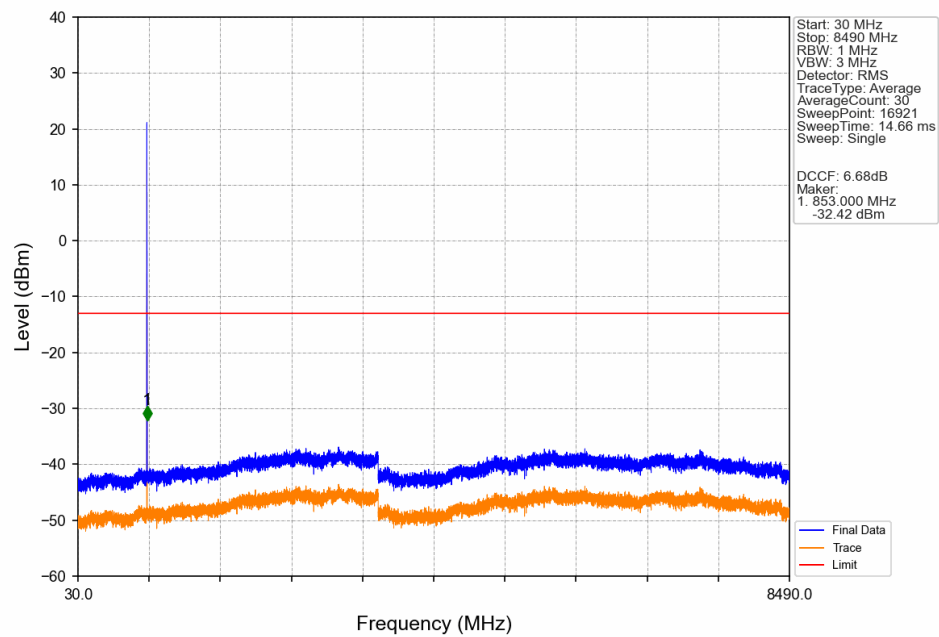
# GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



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 ANT1-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                  | -62.24     | -13         | -49.24          | -65.13           | 2.62            | 5.51               | Horizontal         | Pass   |
| 2472.6                  | -69.75     | -13         | -56.75          | -72.44           | 3.06            | 5.75               | Horizontal         | Pass   |
| 3296.8                  | -67.37     | -13         | -54.37          | -71.73           | 3.3             | 7.66               | Horizontal         | Pass   |
| 1648.4                  | -60.69     | -13         | -47.69          | -63.58           | 2.62            | 5.51               | Vertical           | Pass   |
| 2472.6                  | -69.83     | -13         | -56.83          | -72.52           | 3.06            | 5.75               | Vertical           | Pass   |
| 3296.8                  | -66.24     | -13         | -53.24          | -70.6            | 3.3             | 7.66               | Vertical           | Pass   |

| GSM850 ANT1-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                     | -63.47     | -13         | -50.47          | -66.28           | 2.63            | 5.44               | Horizontal         | Pass   |
| 2509.8                     | -68.8      | -13         | -55.8           | -71.56           | 3.08            | 5.84               | Horizontal         | Pass   |
| 3346.4                     | -67.21     | -13         | -54.21          | -71.68           | 3.32            | 7.79               | Horizontal         | Pass   |
| 1673.2                     | -59.84     | -13         | -46.84          | -62.65           | 2.63            | 5.44               | Vertical           | Pass   |
| 2509.8                     | -69.01     | -13         | -56.01          | -71.77           | 3.08            | 5.84               | Vertical           | Pass   |
| 3346.4                     | -67.0      | -13         | -54.0           | -71.47           | 3.32            | 7.79               | Vertical           | Pass   |

| GSM850 ANT1-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                   | -67.21     | -13         | -54.21          | -69.95           | 2.64            | 5.38               | Horizontal         | Pass   |
| 2546.4                   | -68.53     | -13         | -55.53          | -71.36           | 3.09            | 5.92               | Horizontal         | Pass   |
| 3395.2                   | -63.31     | -13         | -50.31          | -67.87           | 3.35            | 7.91               | Horizontal         | Pass   |
| 1697.6                   | -59.1      | -13         | -46.1           | -61.84           | 2.64            | 5.38               | Vertical           | Pass   |
| 2546.4                   | -61.07     | -13         | -48.07          | -63.9            | 3.09            | 5.92               | Vertical           | Pass   |
| 3395.2                   | -66.02     | -13         | -53.02          | -70.58           | 3.35            | 7.91               | Vertical           | Pass   |