



## Appendix A.2

### 1. Effective (Isotropic) Radiated Power Output Data

#### 1.1 Test Result

##### 1.1.1 PCS1900\_EIRP

| Band: PCS1900 |         |            |                 |                       |            |            |         |         |
|---------------|---------|------------|-----------------|-----------------------|------------|------------|---------|---------|
| ENV           | Mode    |            | Frequency (MHz) | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |         | Verdict |
|               | Network | Subset     |                 |                       |            | Result     | Limit   |         |
| NTNV          | GPRS    | 1 TX Slot  | 1850.2          | 29.49                 | 1.59       | 31.08      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1850.2          | 29.42                 | 1.59       | 31.01      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1850.2          | 27.99                 | 1.59       | 29.58      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1850.2          | 26.94                 | 1.59       | 28.53      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1880            | 29.49                 | 1.59       | 31.08      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1880            | 29.43                 | 1.59       | 31.02      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1880            | 27.95                 | 1.59       | 29.54      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1880            | 26.93                 | 1.59       | 28.52      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1909.8          | 29.34                 | 1.59       | 30.93      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1909.8          | 29.29                 | 1.59       | 30.88      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1909.8          | 27.90                 | 1.59       | 29.49      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1909.8          | 26.86                 | 1.59       | 28.45      | <=33.01 | Pass    |
|               | EGPRS   | 1 TX Slot  | 1850.2          | 26.00                 | 1.59       | 27.59      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1850.2          | 25.73                 | 1.59       | 27.32      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1850.2          | 25.29                 | 1.59       | 26.88      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1850.2          | 23.25                 | 1.59       | 24.84      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1880            | 26.07                 | 1.59       | 27.66      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1880            | 25.62                 | 1.59       | 27.21      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1880            | 24.01                 | 1.59       | 25.60      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1880            | 22.92                 | 1.59       | 24.51      | <=33.01 | Pass    |
|               |         | 1 TX Slot  | 1909.8          | 25.99                 | 1.59       | 27.58      | <=33.01 | Pass    |
|               |         | 2 TX Slots | 1909.8          | 25.56                 | 1.59       | 27.15      | <=33.01 | Pass    |
|               |         | 3 TX Slots | 1909.8          | 23.95                 | 1.59       | 25.54      | <=33.01 | Pass    |
|               |         | 4 TX Slots | 1909.8          | 22.83                 | 1.59       | 24.42      | <=33.01 | Pass    |

Note1: EIRP=Conducted Power+Antenna Gain

### 2. Frequency Stability

#### 2.1 Test Result

##### 2.1.1 PCS1900

| Band: PCS1900 |                 |            |               |                  |                       |       |         |
|---------------|-----------------|------------|---------------|------------------|-----------------------|-------|---------|
| Network       | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |       | Verdict |
|               |                 |            |               |                  | Result                | Limit |         |

|       |        |     |      |        |        |             |      |
|-------|--------|-----|------|--------|--------|-------------|------|
| GPRS  | 1850.2 | 20  | 3.30 | 14.787 | 0.0080 | -2.5 to 2.5 | Pass |
|       |        |     | 3.80 | 12.365 | 0.0067 | -2.5 to 2.5 | Pass |
|       |        |     | 4.30 | 10.880 | 0.0059 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.80 | 10.461 | 0.0057 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.80 | 16.498 | 0.0089 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.80 | 16.692 | 0.0090 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.80 | 10.880 | 0.0059 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.80 | 12.688 | 0.0069 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.80 | 11.881 | 0.0064 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.80 | 10.170 | 0.0055 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.80 | 10.816 | 0.0058 | -2.5 to 2.5 | Pass |
|       | 1880   | 20  | 3.30 | 12.721 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        |     | 3.80 | 12.398 | 0.0066 | -2.5 to 2.5 | Pass |
|       |        |     | 4.30 | 9.008  | 0.0048 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.80 | 10.138 | 0.0054 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.80 | 13.915 | 0.0074 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.80 | 14.464 | 0.0077 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.80 | 12.301 | 0.0065 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.80 | 15.271 | 0.0081 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.80 | 12.721 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.80 | 11.074 | 0.0059 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.80 | 13.818 | 0.0074 | -2.5 to 2.5 | Pass |
|       | 1909.8 | 20  | 3.30 | 10.945 | 0.0057 | -2.5 to 2.5 | Pass |
|       |        |     | 3.80 | 11.365 | 0.0060 | -2.5 to 2.5 | Pass |
|       |        |     | 4.30 | 13.495 | 0.0071 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.80 | 10.105 | 0.0053 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.80 | 14.593 | 0.0076 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.80 | 15.110 | 0.0079 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.80 | 14.303 | 0.0075 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.80 | 9.201  | 0.0048 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.80 | 12.624 | 0.0066 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.80 | 11.526 | 0.0060 | -2.5 to 2.5 | Pass |
| EGPRS | 1850.2 | 20  | 3.30 | 13.657 | 0.0074 | -2.5 to 2.5 | Pass |
|       |        |     | 3.80 | 17.015 | 0.0092 | -2.5 to 2.5 | Pass |
|       |        |     | 4.30 | 15.562 | 0.0084 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.80 | 12.624 | 0.0068 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.80 | 14.432 | 0.0078 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.80 | 12.172 | 0.0066 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.80 | 14.012 | 0.0076 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.80 | 14.561 | 0.0079 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.80 | 15.174 | 0.0082 | -2.5 to 2.5 | Pass |
|       |        | 40  | 3.80 | 15.271 | 0.0083 | -2.5 to 2.5 | Pass |
|       |        | 50  | 3.80 | 16.369 | 0.0088 | -2.5 to 2.5 | Pass |
|       | 1880   | 20  | 3.30 | 12.559 | 0.0067 | -2.5 to 2.5 | Pass |
|       |        |     | 3.80 | 15.239 | 0.0081 | -2.5 to 2.5 | Pass |
|       |        |     | 4.30 | 14.432 | 0.0077 | -2.5 to 2.5 | Pass |
|       |        | -30 | 3.80 | 18.016 | 0.0096 | -2.5 to 2.5 | Pass |
|       |        | -20 | 3.80 | 15.142 | 0.0081 | -2.5 to 2.5 | Pass |
|       |        | -10 | 3.80 | 14.012 | 0.0075 | -2.5 to 2.5 | Pass |
|       |        | 0   | 3.80 | 14.851 | 0.0079 | -2.5 to 2.5 | Pass |
|       |        | 10  | 3.80 | 15.077 | 0.0080 | -2.5 to 2.5 | Pass |
|       |        | 30  | 3.80 | 12.785 | 0.0068 | -2.5 to 2.5 | Pass |



Report No.: SUCR260500041102

Page: 3 of 26

|  |        |     |      |        |        |             |      |
|--|--------|-----|------|--------|--------|-------------|------|
|  |        | 40  | 3.80 | 13.528 | 0.0072 | -2.5 to 2.5 | Pass |
|  |        | 50  | 3.80 | 12.269 | 0.0065 | -2.5 to 2.5 | Pass |
|  | 1909.8 | 20  | 3.30 | 14.561 | 0.0076 | -2.5 to 2.5 | Pass |
|  |        |     | 3.80 | 15.271 | 0.0080 | -2.5 to 2.5 | Pass |
|  |        |     | 4.30 | 13.302 | 0.0070 | -2.5 to 2.5 | Pass |
|  |        | -30 | 3.80 | 13.463 | 0.0070 | -2.5 to 2.5 | Pass |
|  |        | -20 | 3.80 | 13.721 | 0.0072 | -2.5 to 2.5 | Pass |
|  |        | -10 | 3.80 | 15.723 | 0.0082 | -2.5 to 2.5 | Pass |
|  |        | 0   | 3.80 | 13.786 | 0.0072 | -2.5 to 2.5 | Pass |
|  |        | 10  | 3.80 | 14.367 | 0.0075 | -2.5 to 2.5 | Pass |
|  |        | 30  | 3.80 | 18.920 | 0.0099 | -2.5 to 2.5 | Pass |
|  |        | 40  | 3.80 | 14.884 | 0.0078 | -2.5 to 2.5 | Pass |
|  |        | 50  | 3.80 | 19.856 | 0.0104 | -2.5 to 2.5 | Pass |

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 PCS1900\_OBW

| Band: PCS1900 |         |           |                 |                              |       |         |
|---------------|---------|-----------|-----------------|------------------------------|-------|---------|
| ENV           | Mode    |           | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|               | Network | Subset    |                 | Result                       | Limit |         |
| NTNV          | GPRS    | 1 TX Slot | 1850.2          | 0.246                        | /     | Pass    |
|               |         |           | 1880            | 0.243                        | /     | Pass    |
|               |         |           | 1909.8          | 0.262                        | /     | Pass    |
|               | EGPRS   | 1 TX Slot | 1850.2          | 0.247                        | /     | Pass    |
|               |         |           | 1880            | 0.249                        | /     | Pass    |
|               |         |           | 1909.8          | 0.249                        | /     | Pass    |

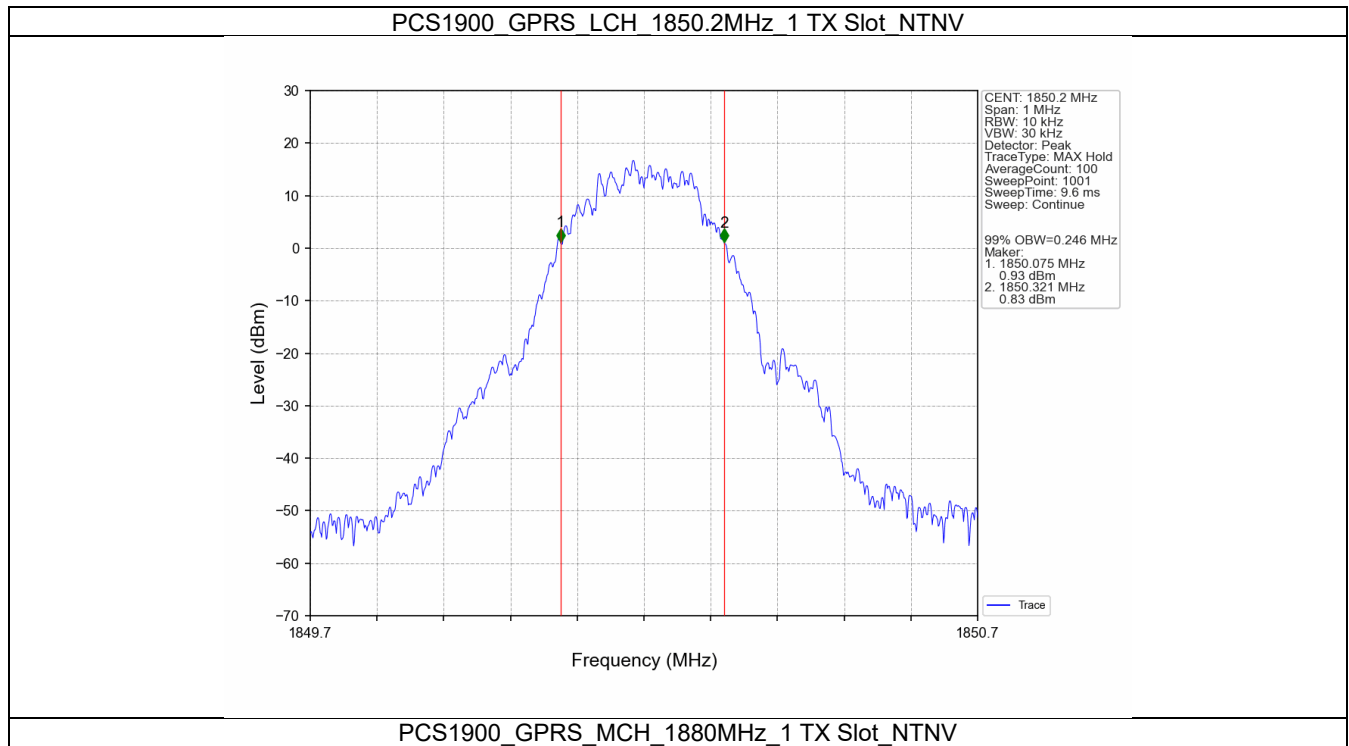
##### 3.1.2 PCS1900\_XDB

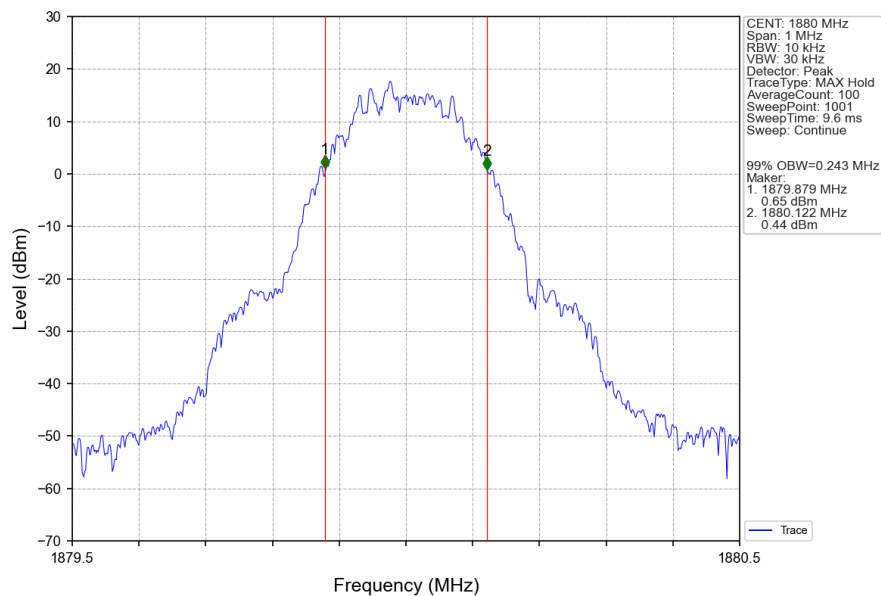
| Band: PCS1900 |         |           |                 |                      |       |         |
|---------------|---------|-----------|-----------------|----------------------|-------|---------|
| ENV           | Mode    |           | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|               | Network | Subset    |                 | Result               | Limit |         |
| NTNV          | GPRS    | 1 TX Slot | 1850.2          | 0.318                | /     | Pass    |
|               |         |           | 1880            | 0.312                | /     | Pass    |
|               |         |           | 1909.8          | 0.327                | /     | Pass    |
|               | EGPRS   | 1 TX Slot | 1850.2          | 0.321                | /     | Pass    |
|               |         |           | 1880            | 0.319                | /     | Pass    |
|               |         |           | 1909.8          | 0.318                | /     | Pass    |



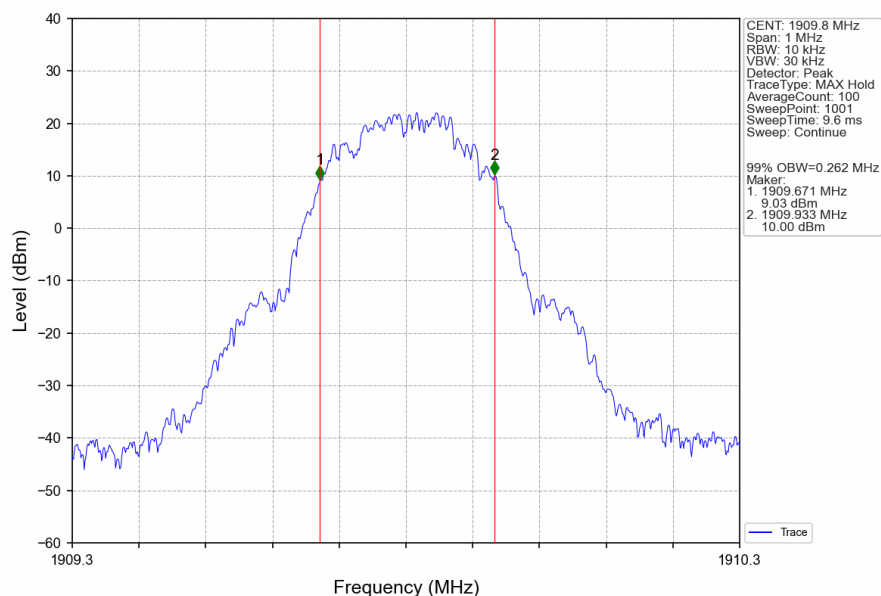
## 3.2 Test Graph

### 3.2.1 PCS1900\_OBW

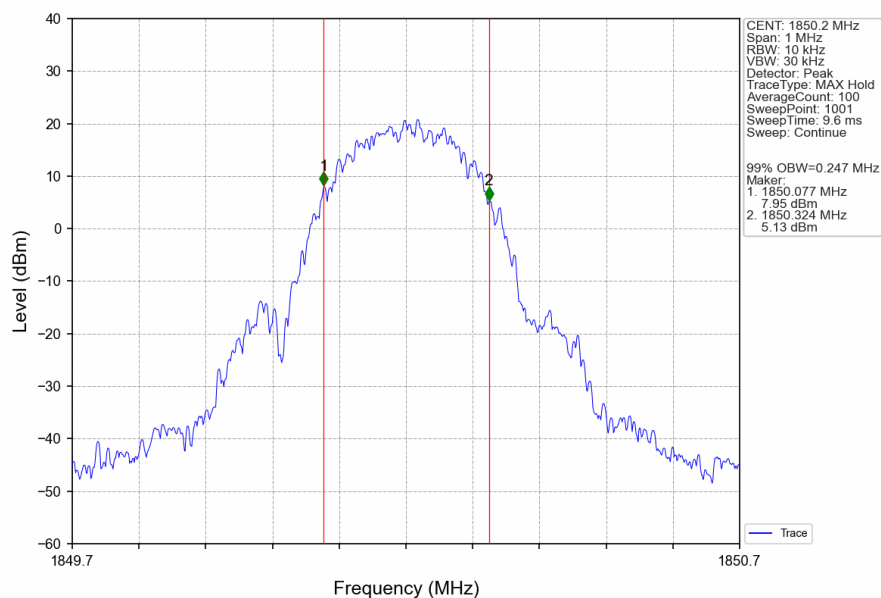




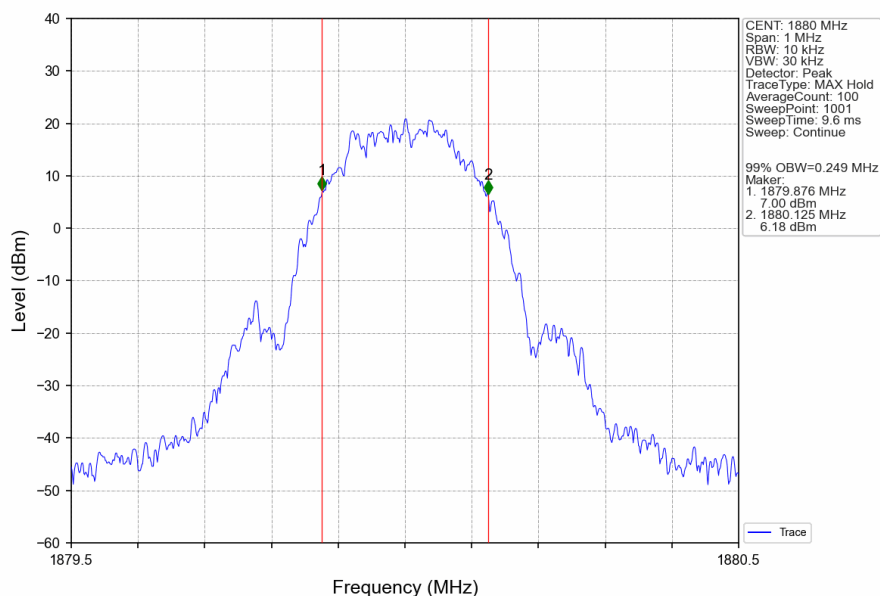
## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



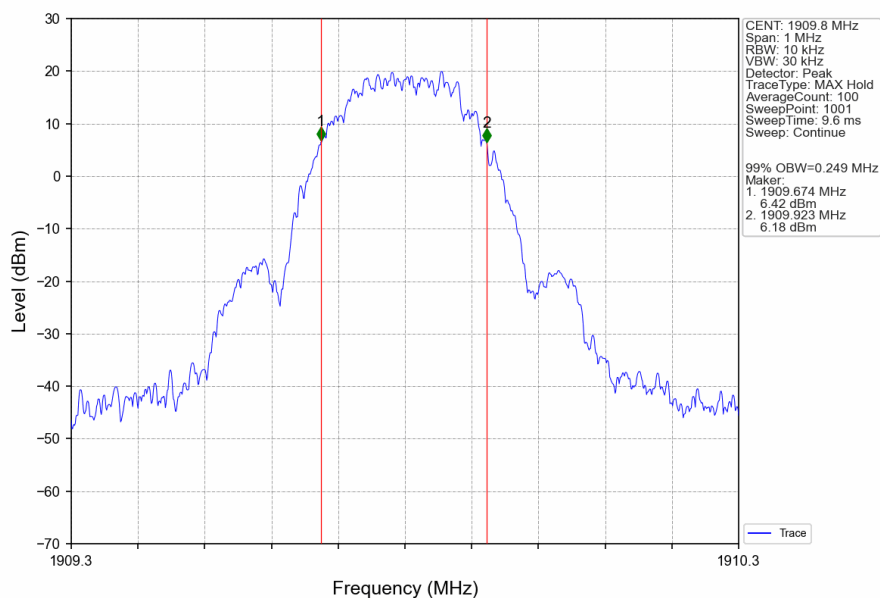
## PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



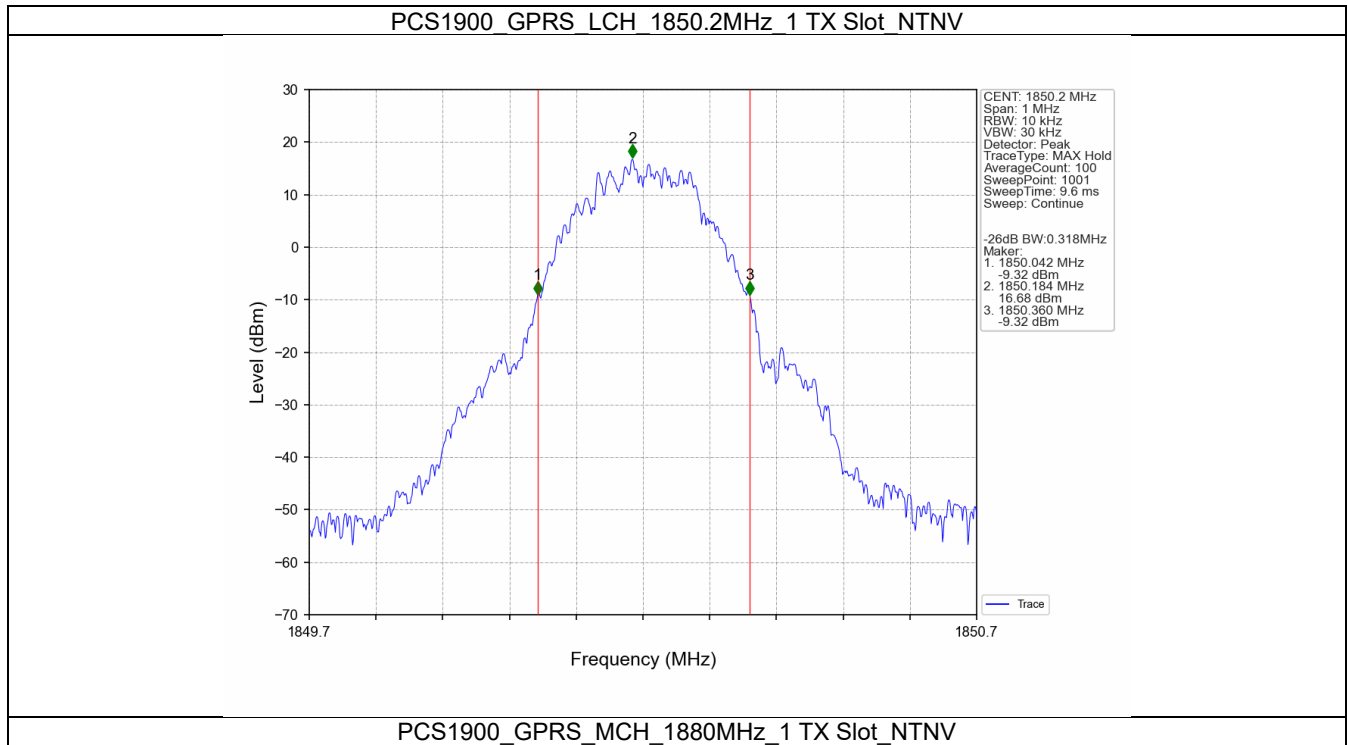
## PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN

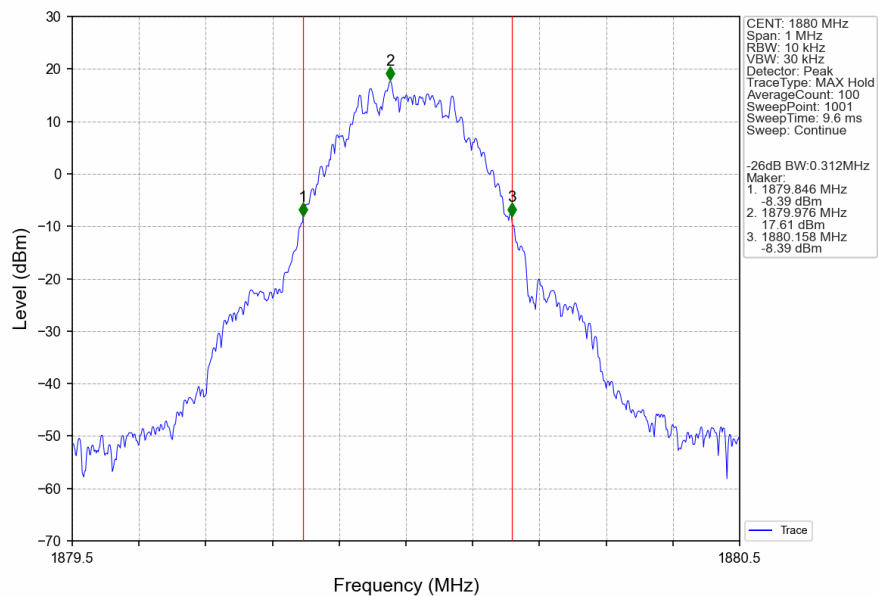


## PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN

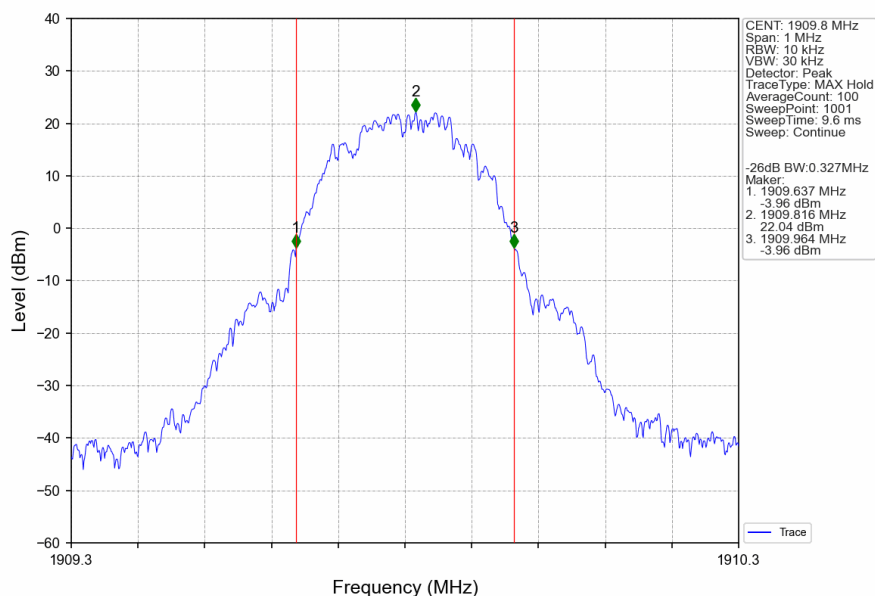


### 3.2.2 PCS1900\_XDB

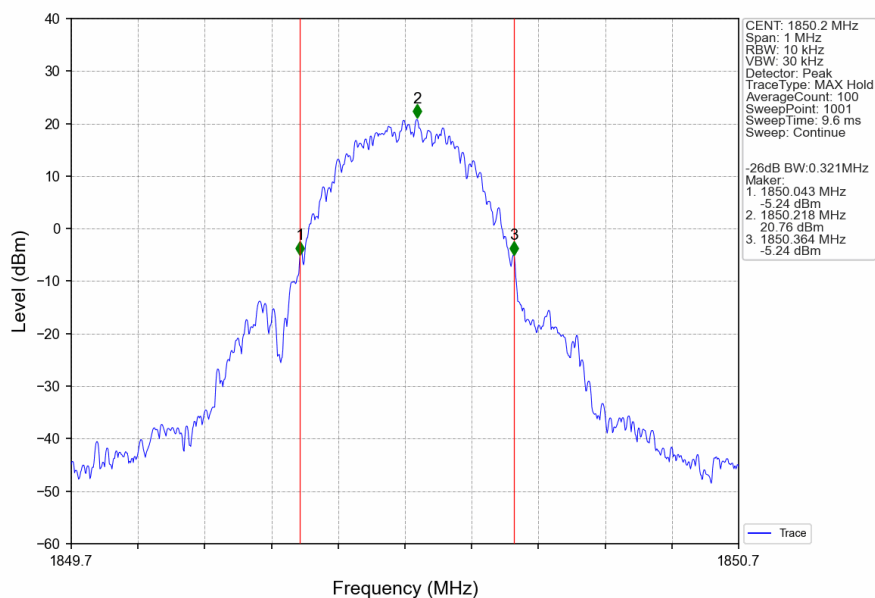




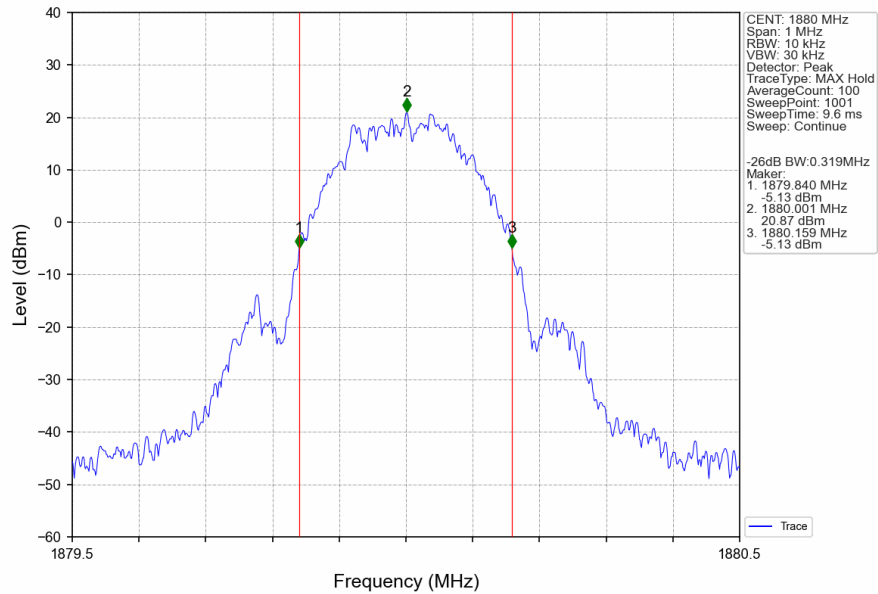
## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



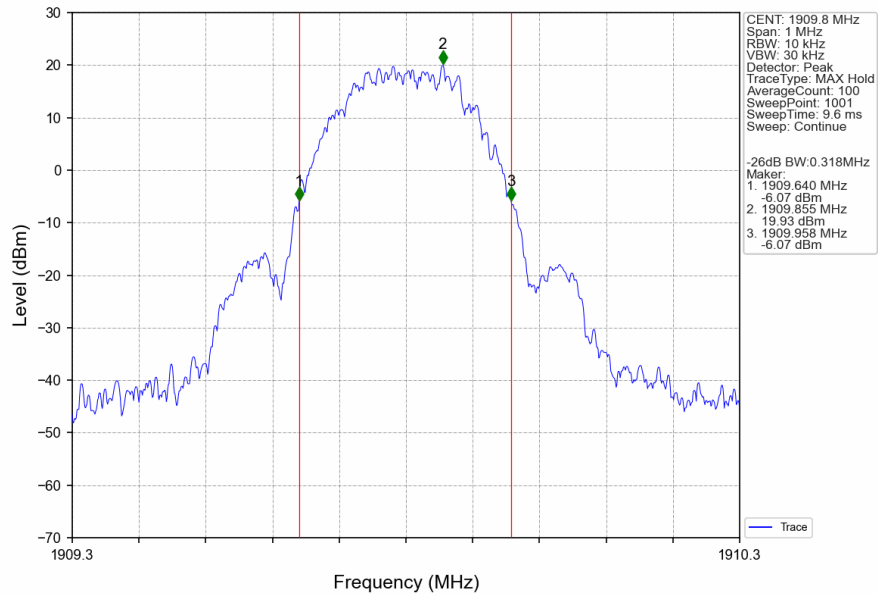
## PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV





Report No.: SUCR260500041102  
Page: 12 of 26

## 4. Peak-Average Ratio

### 4.1 Test Result

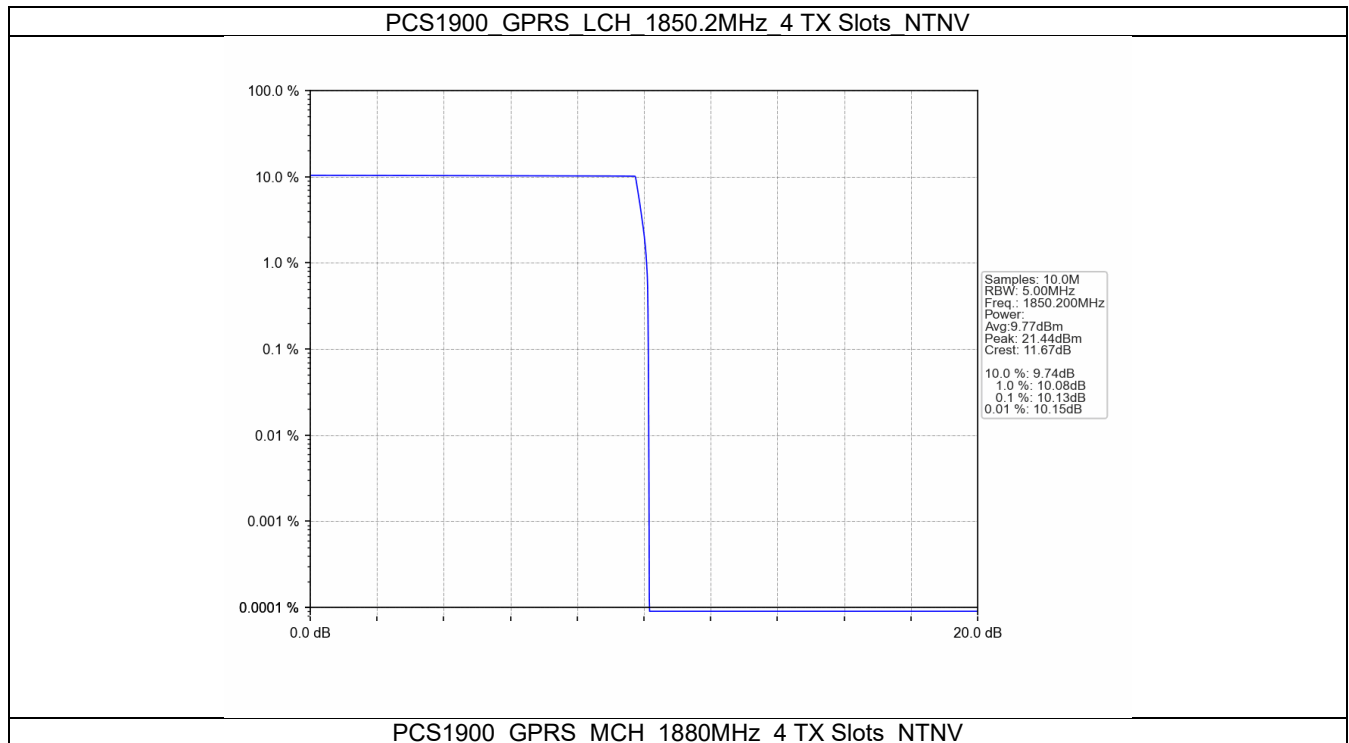
#### 4.1.1 PCS1900

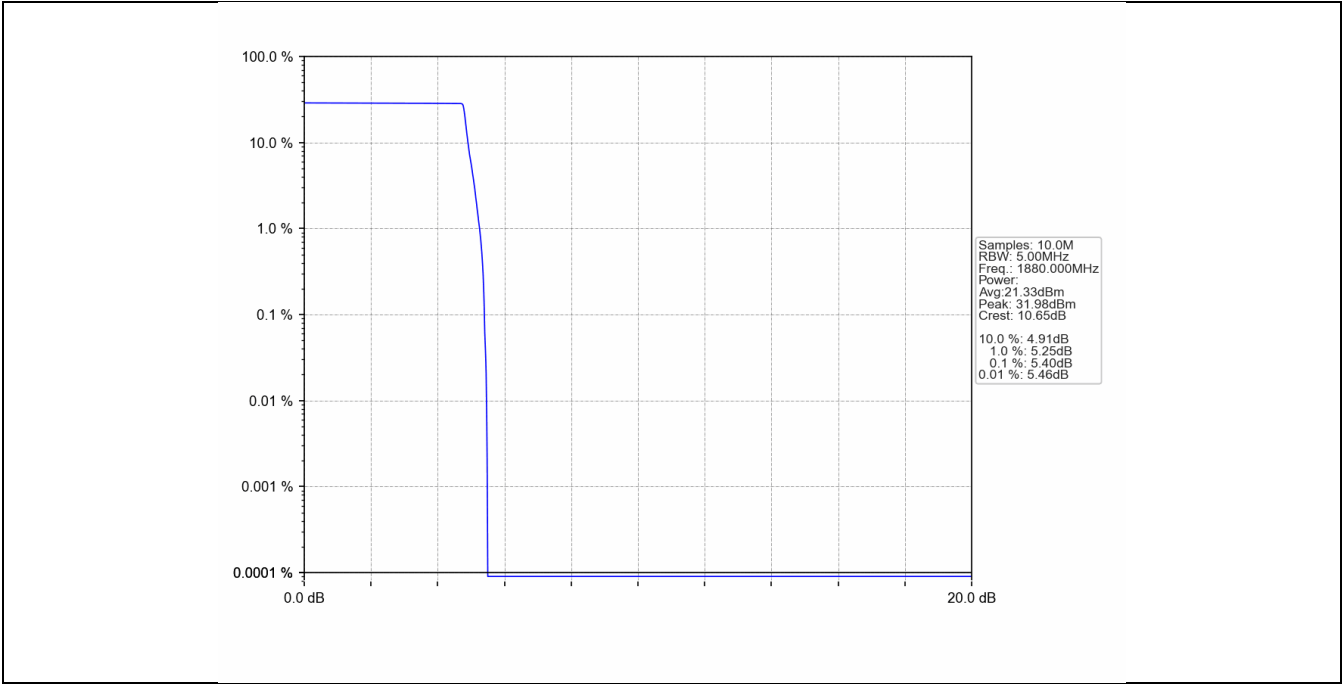
| Band: PCS1900 |         |            |                    |                         |       |         |
|---------------|---------|------------|--------------------|-------------------------|-------|---------|
| ENV           | Mode    |            | Frequency<br>(MHz) | Peak-Average Ratio (dB) |       | Verdict |
|               | Network | Subset     |                    | Result                  | Limit |         |
| NTNV          | GPRS    | 4 TX Slots | 1850.2             | 10.13                   | <=13  | Pass    |
|               |         |            | 1880               | 5.40                    | <=13  | Pass    |
|               |         |            | 1909.8             | 4.08                    | <=13  | Pass    |
|               | EGPRS   | 4 TX Slots | 1850.2             | 7.63                    | <=13  | Pass    |
|               |         |            | 1880               | 7.40                    | <=13  | Pass    |
|               |         |            | 1909.8             | 6.83                    | <=13  | Pass    |



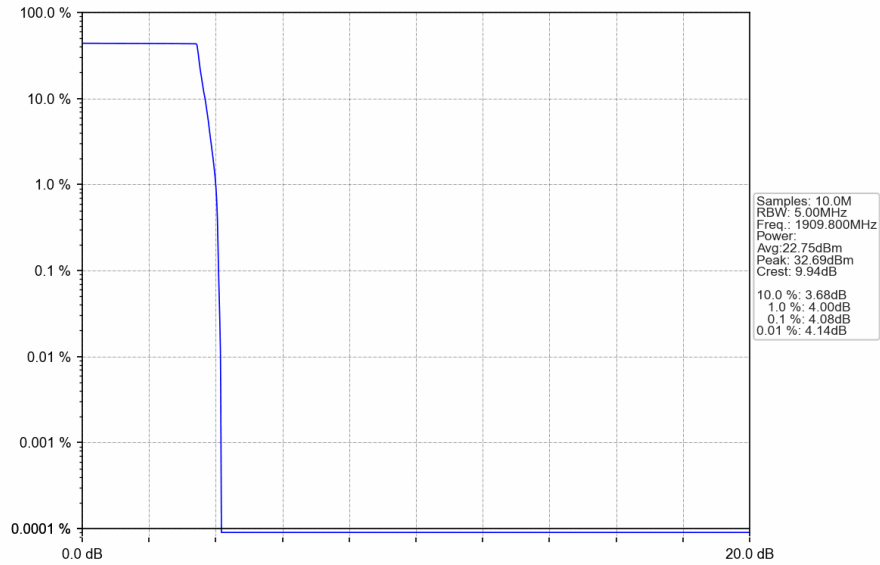
## 4.2 Test Graph

### 4.2.1 PCS1900

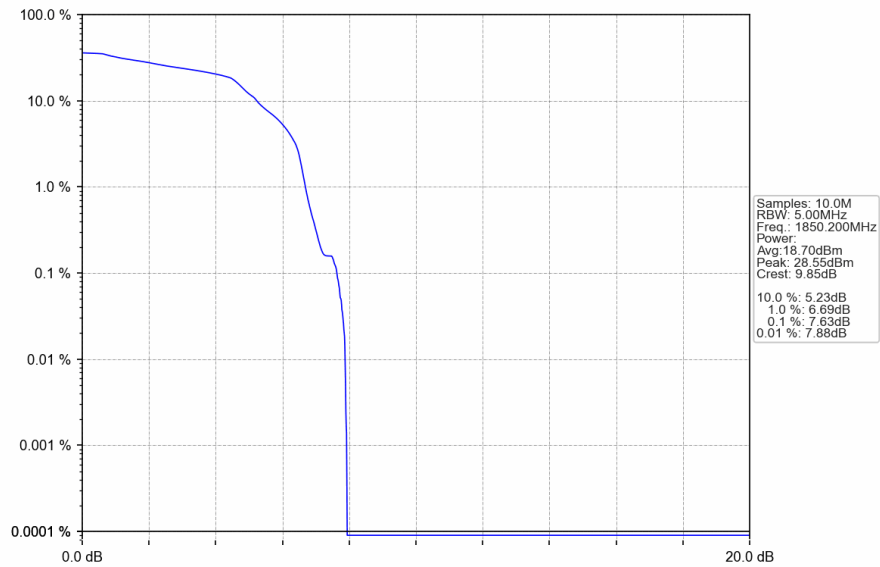




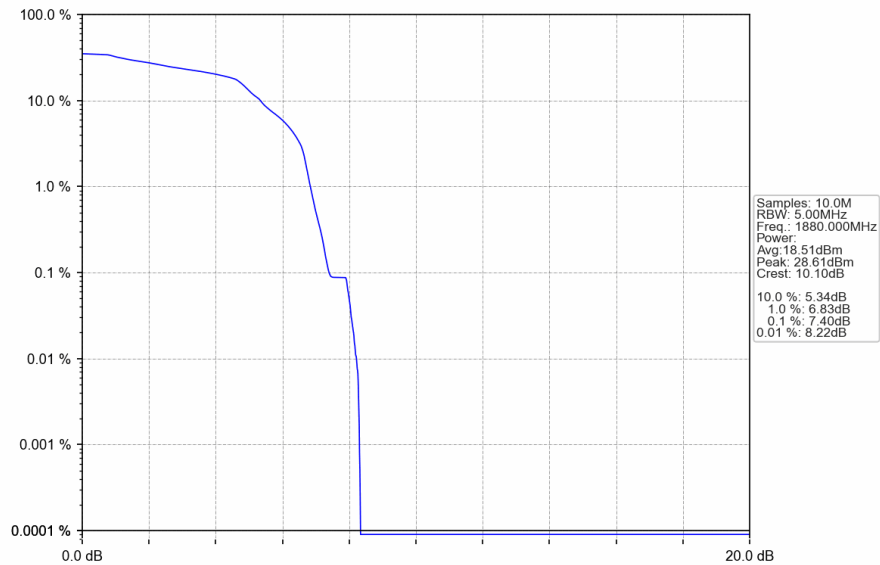
### PCS1900\_GPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV



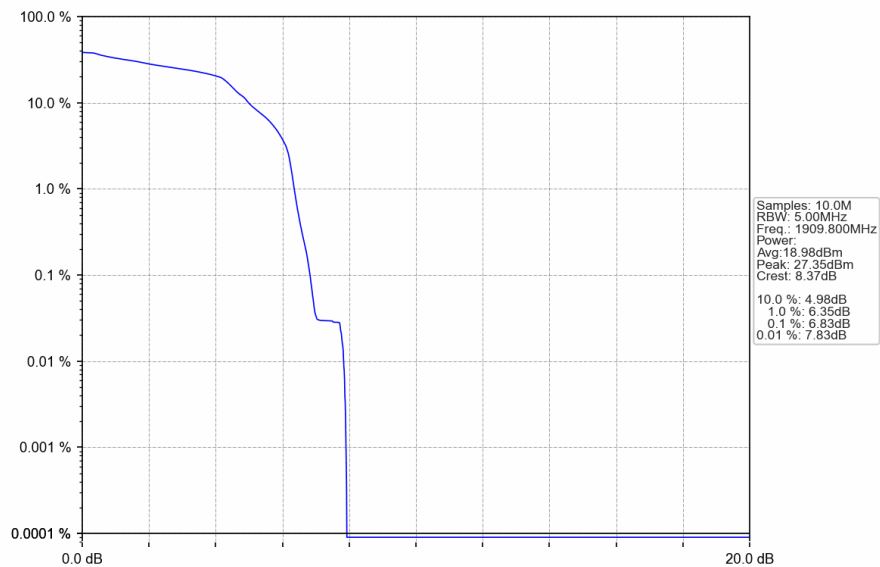
### PCS1900\_EGPRS\_LCH\_1850.2MHz\_4 TX Slots\_NTNV



## PCS1900\_EGPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



## PCS1900\_EGPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV





Report No.: SUCR260500041102  
Page: 17 of 26

## 5. Spurious Emission

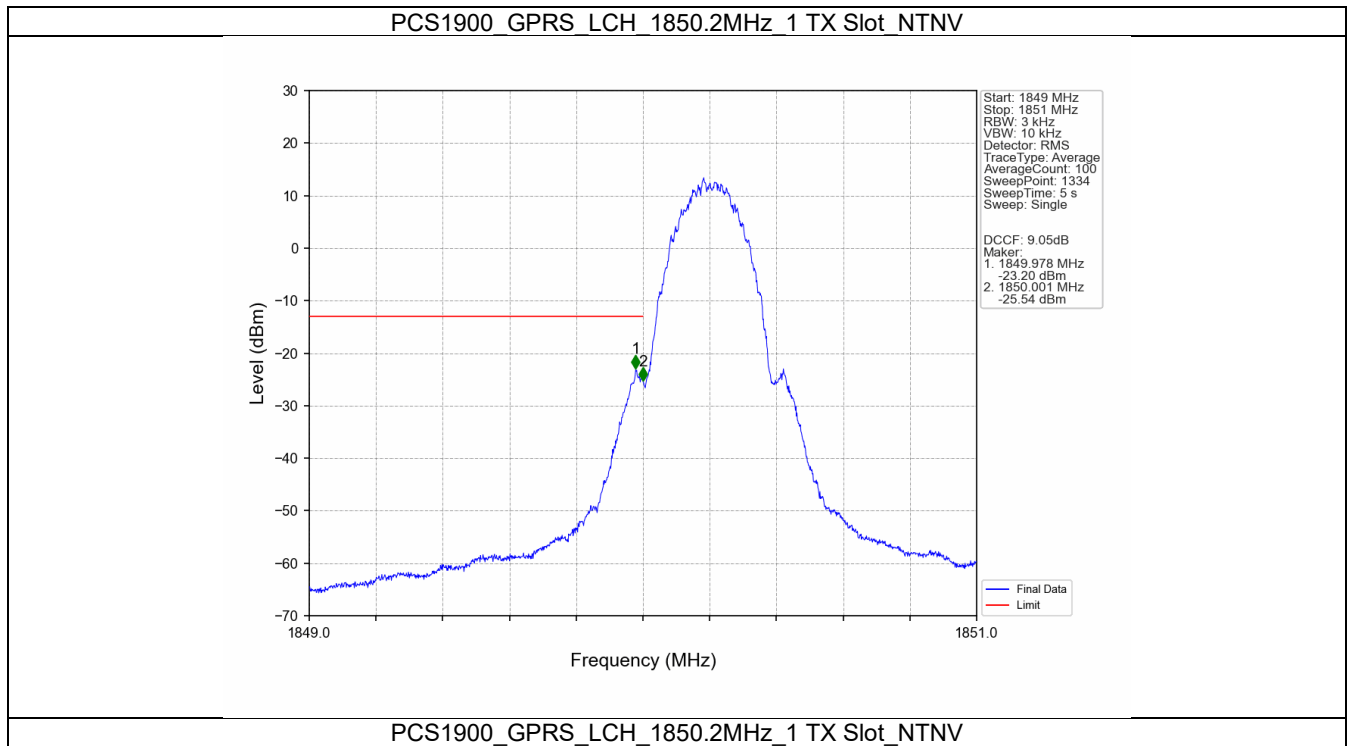
### 5.1 Test Result

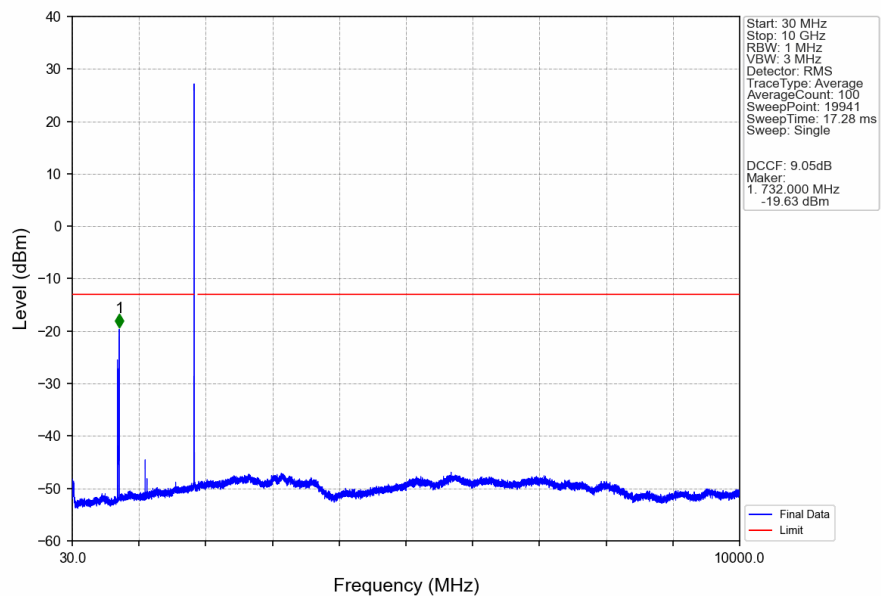
#### 5.1.1 PCS1900

| Band: PCS1900 |         |           |                    |                     |       |         |
|---------------|---------|-----------|--------------------|---------------------|-------|---------|
| ENV           | Mode    |           | Frequency<br>(MHz) | Spurious Emission   |       | Verdict |
|               | Network | Subset    |                    | Result              | Limit |         |
| NTNV          | GPRS    | 1 TX Slot | 1850.2             | Refer To Test Graph |       | Pass    |
|               |         |           | 1880               | Refer To Test Graph |       | Pass    |
|               |         |           | 1909.8             | Refer To Test Graph |       | Pass    |
|               | EGPRS   | 1 TX Slot | 1850.2             | Refer To Test Graph |       | Pass    |
|               |         |           | 1880               | Refer To Test Graph |       | Pass    |
|               |         |           | 1909.8             | Refer To Test Graph |       | Pass    |

## 5.2 Test Graph

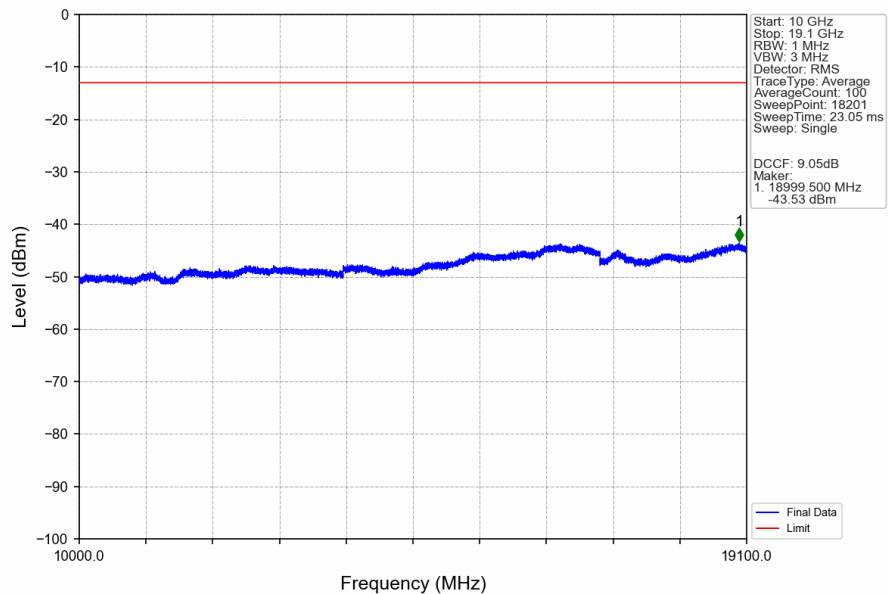
### 5.2.1 PCS1900



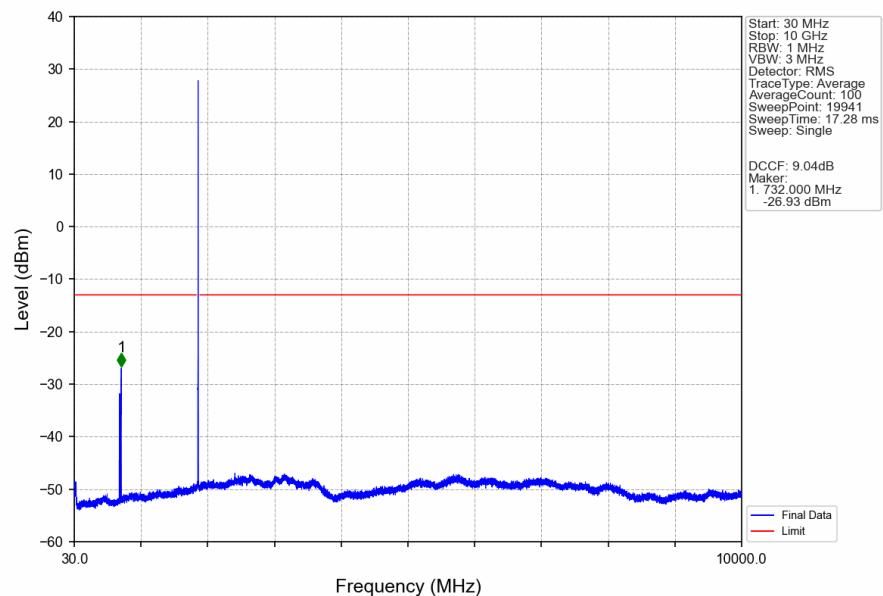




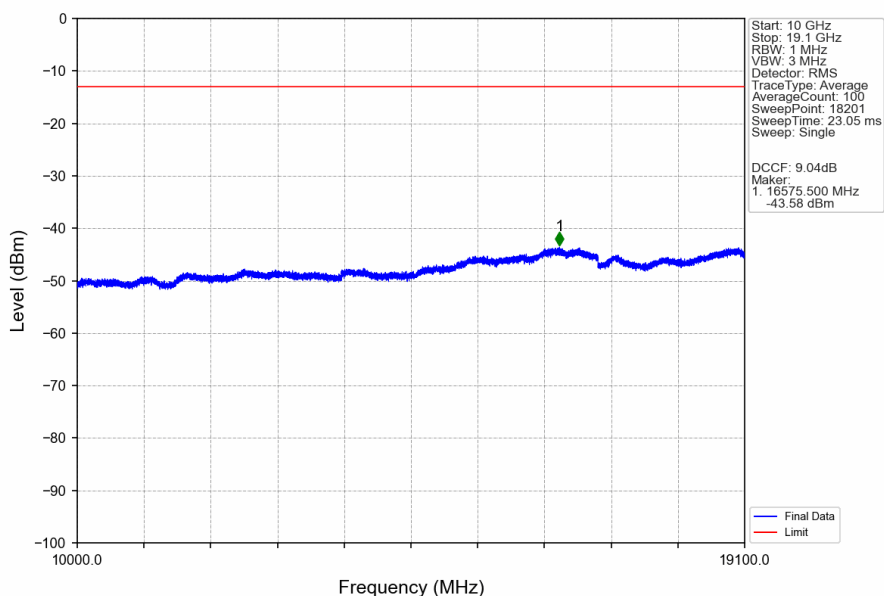
PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



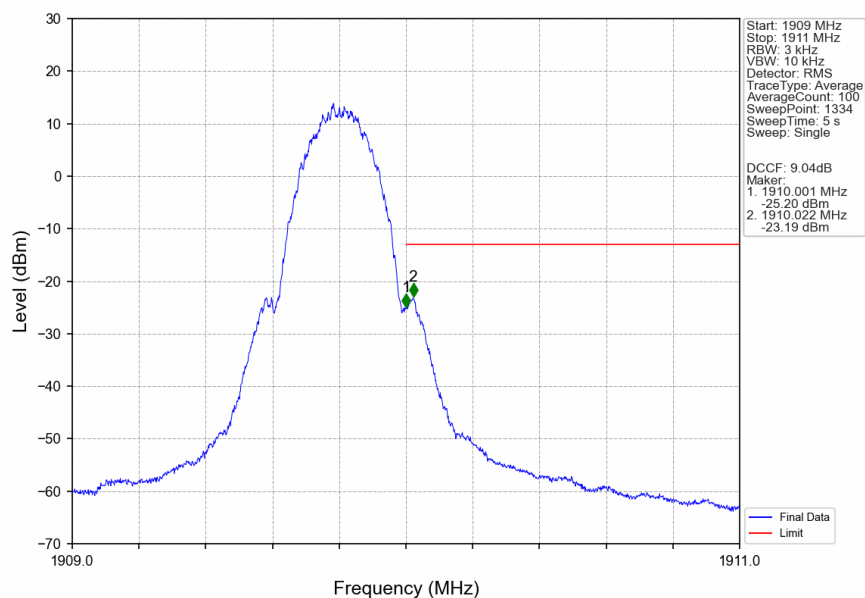
PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



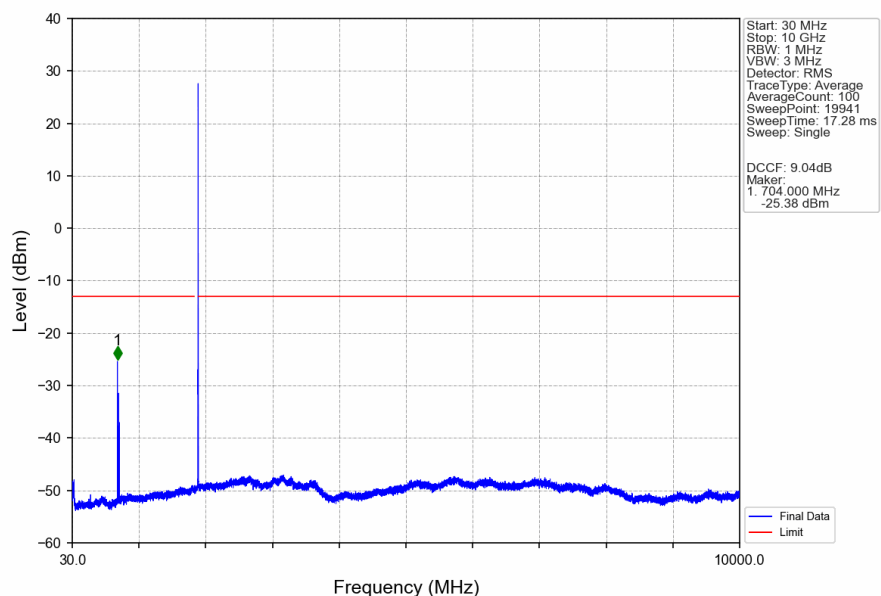
## PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



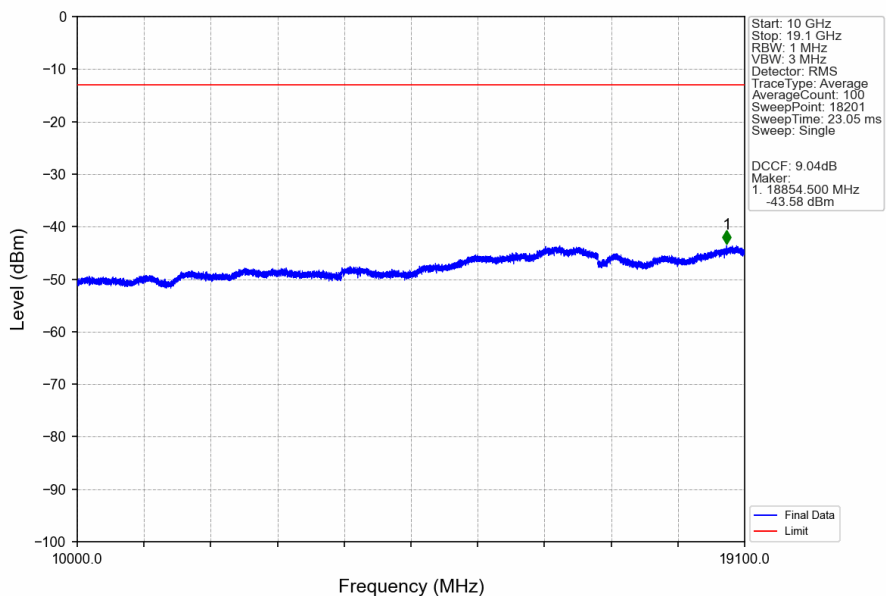
## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV

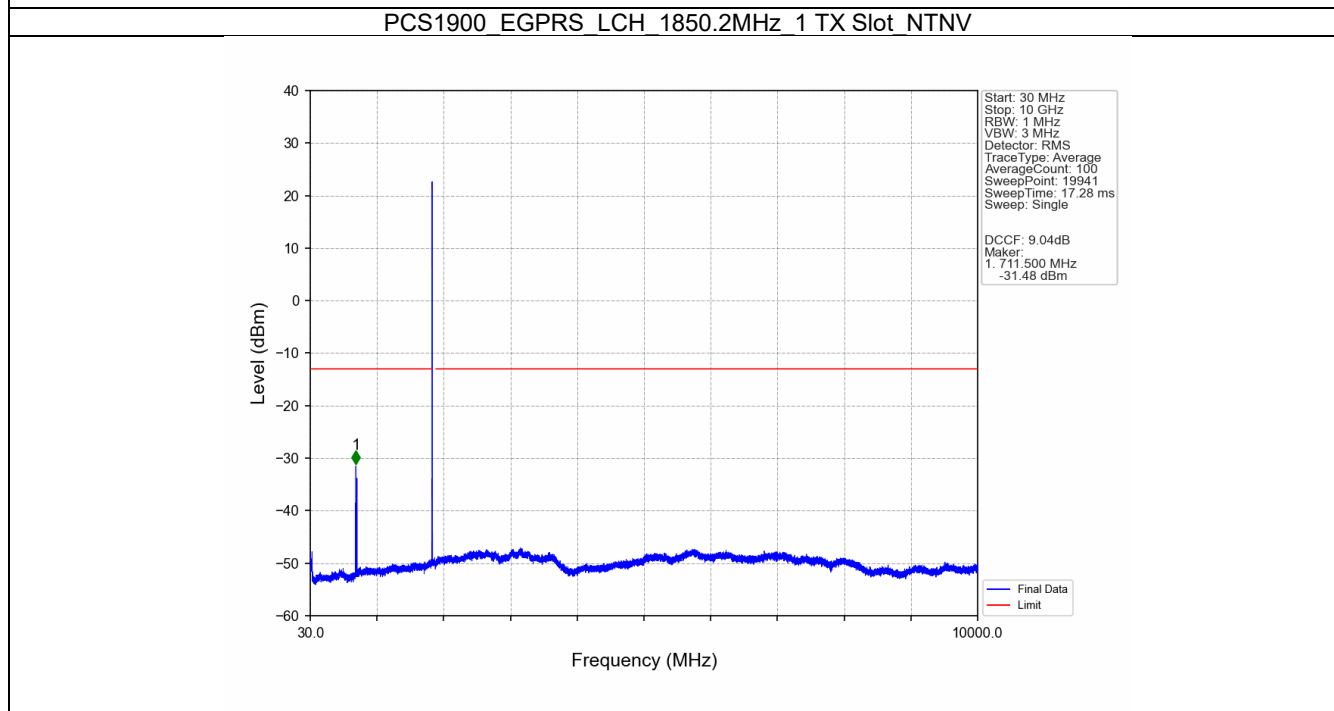
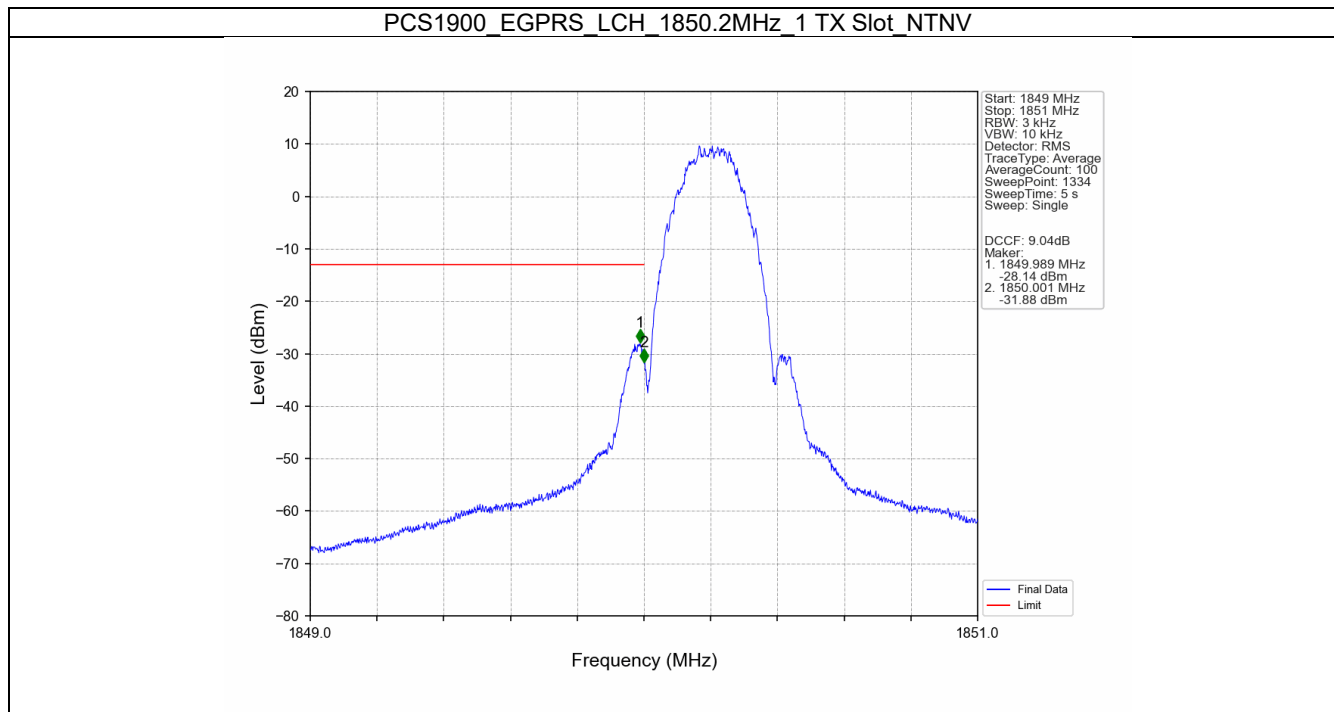


## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV

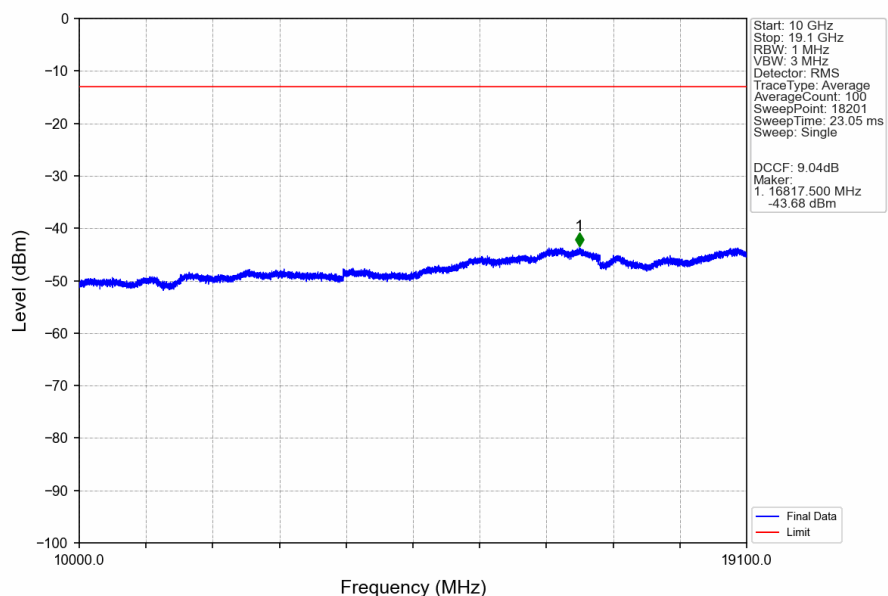


## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV

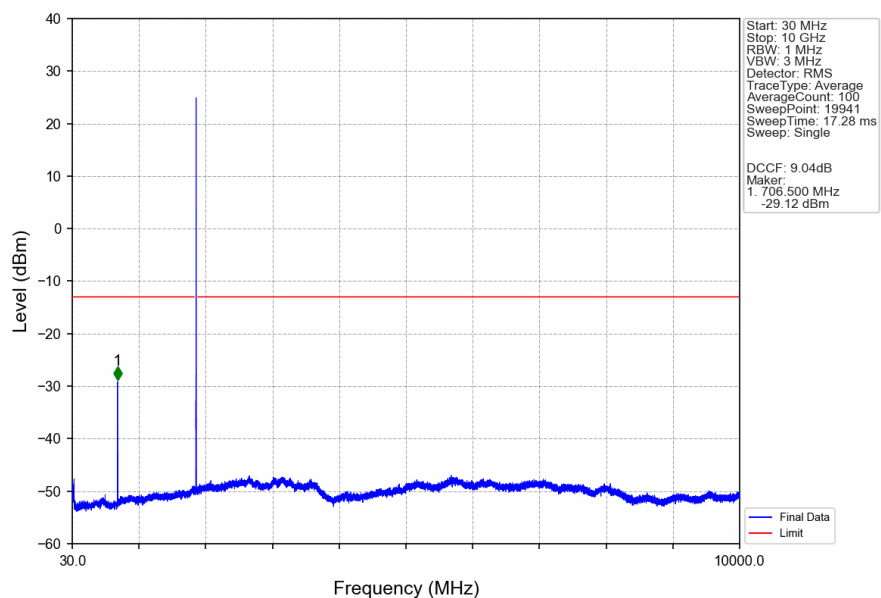




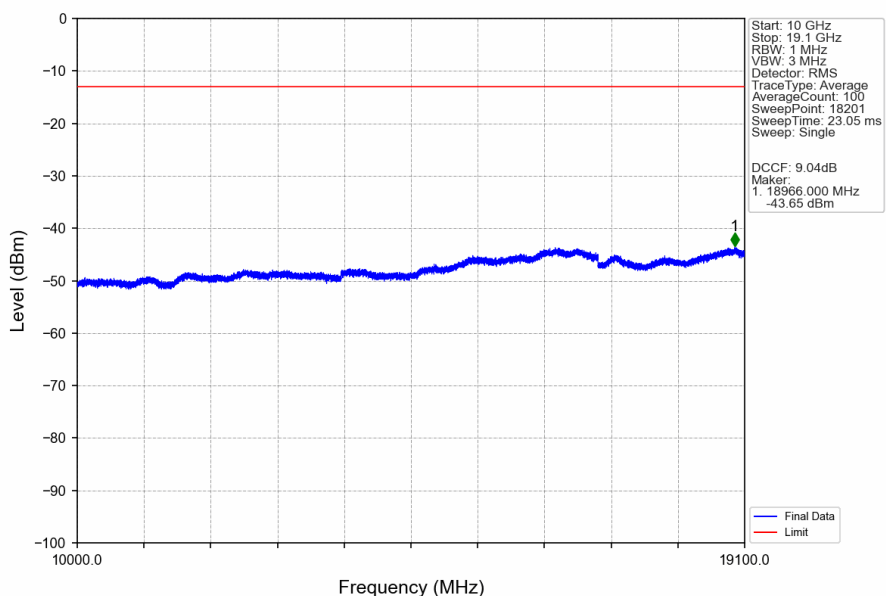
## PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



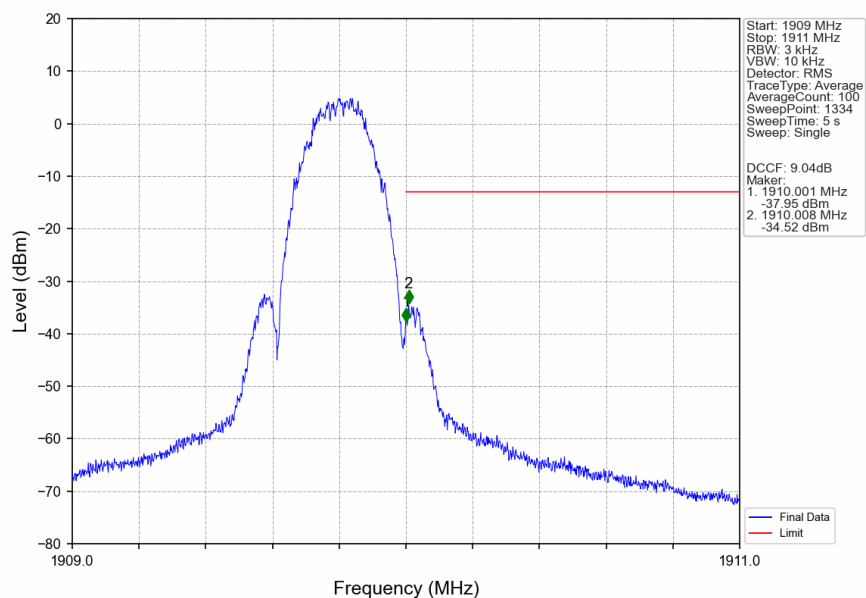
## PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



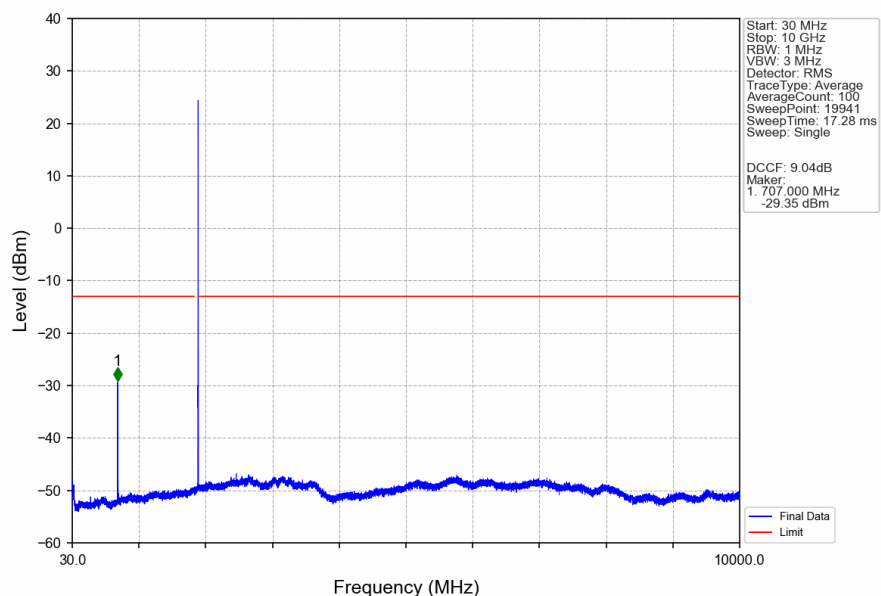
## PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



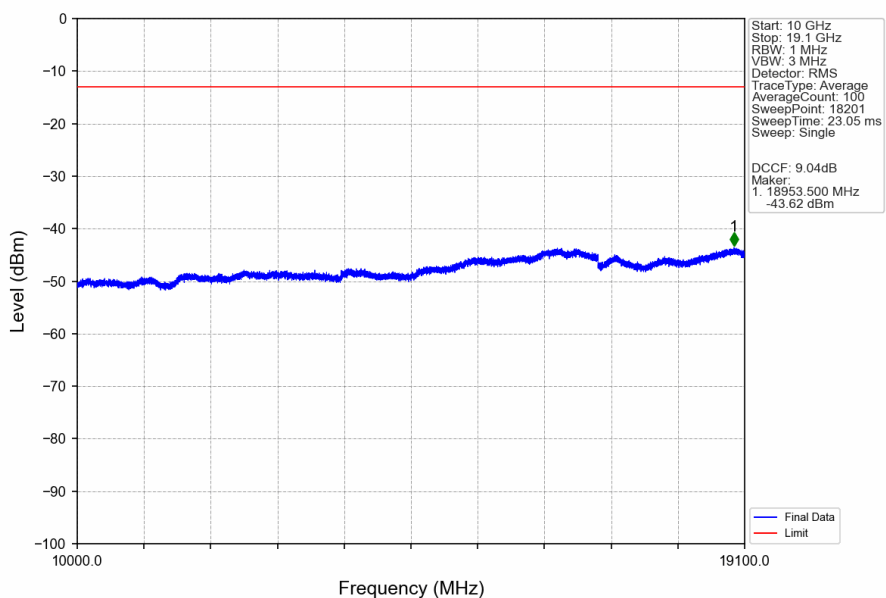
## PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTN



## PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



## PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



- End of the Appendix -