



## TEST REPORT

**Application No.:** GZCR2108020821AT  
**Applicant:** Dspread Technology (Beijing) Inc  
**Address of Applicant:** Rm.407, B12C, #10 (Universal Business Park), Jiuxianqiao Road, Chaoyang District, Beijing, China  
**Manufacturer:** Dspread Technology (Beijing) Inc  
**Address of Manufacturer:** Rm.407, B12C, #10 (Universal Business Park) Jiuxianqiao Road, Chaoyang District, Beijing, China  
**Factory:** SHENZHEN WINSTAR PRECISION ELECTRONICS CO., LTD.  
**Address of factory:** The East Side of the Floor 6, Floor 5, Building 28, Shancheng Industrial Park, Shixin Community, Langxin Community, Shiyuan Street, Bao'an District, Shenzhen City, Guangdong Province, P. R. China  
**Equipment Under Test (EUT):**  
**EUT Name:** Mobile POS  
**Model No.:** QPOS Plus  
**Trade mark:** DSPREAD  
**Standard(s) :** 47 CFR Part 2  
47 CFR Part 22 subpart H  
47 CFR Part 24 subpart E  
**Date of Receipt:** 2021-08-05  
**Date of Test:** 2021-08-06 to 2021-08-27  
**Date of Issue:** 2021-09-01

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian  
EMC Laboratory Manager



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Guangzhou Branch

Report No.: GZCR210802082105  
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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2021-09-01 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                         |  |   |  |  |
|-------------------------|--|---|--|--|
| Authorized for issue by |  |   |  |  |
|                         |  |  |  |  |
|                         |  | Curry Wu/Project Engineer   |  |  |
|                         |  |  |  |  |
|                         |  | Ricky Liu/Reviewer  |  |  |



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## 2 Test Summary

| Test Item  | FCC Rule No.                    | Requirements   | Verdict |
|--|---------------------------------|--|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§22.913,<br>§24.232 | ERP≤7W(GSM850)<br>EIRP≤2W(GSM1900)   | PASS    |
| Peak-Average Ratio                               | §24.232                         | ≤13dB  | PASS    |
| Modulation Characteristics                       | §2.1047                         | Digital modulation   | PASS    |
| Bandwidth  | §2.1049(h)                      | OBW: No limit<br>EBW: No limit   | PASS    |
| Band Edge Compliance                             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | PASS    |
| Spurious emissions at antenna terminals          | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm   | PASS    |
| Field strength of spurious radiation             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm   | PASS    |
| Frequency stability                              | §2.1055,<br>§22.355,<br>§24.235 | ≤ ±2.5ppm.   | PASS    |



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: DC 3.7V by rechargeable lithium battery.  
Adapter model: TPA-46B050100UU  
Input: AC 100-240V 50/60Hz 0.2A  
Output: DC 5V 1A

Cable(s): USB type C cable: 1m shielded cable without ferrite core

Sample Type: Portable production

Support Network: GPRS, EGPRS

Operation Frequency Band: GSM850/GSM1900

Modulation Type: GMSK for GPRS/EGPRS;  
8PSK for EGPRS;

Supported Channel Bandwidth: 200KHz for GSM

GPRS Class: 12

EGPRS Class: 12

UMTS Power Class: Level 3

Antenna Type: PIFA antenna

Antenna Gain: GSM850: 0.33dBi; GSM1900:-0.33dBi

SIM Card: This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

Extreme temp. Tolerance: -30°C to +50°C

Extreme vol. Limits: 3.4VDC to 4.2VDC (nominal: 3.7VDC)



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## 4.2 Test Frequency

| Test mode: | RF Channel  |             |             |
|------------|-------------|-------------|-------------|
|            | Low (L)     | Middle (M)  | High (H)    |
| GSM850     | Channel 128 | Channel 190 | Channel 251 |
|            | 824.2MHz    | 836.6 MHz   | 848.8 MHz   |
| Test mode: | RF Channel  |             |             |
|            | Low (L)     | Middle (M)  | High (H)    |
| GSM1900    | Channel 512 | Channel 661 | Channel 810 |
|            | 1850.2MHz   | 1880.0 MHz  | 1909.8 MHz  |

## 4.3 Test Environment

| Environment Parameter | Selected Values During Tests |       |
|-----------------------|------------------------------|-------|
| Relative Humidity     | 52%                          |       |
| Atmospheric Pressure: | 1015Pa                       |       |
| Temperature:          | TN                           | 20 °C |
| Voltage:              | VL                           | 3.4 V |
|                       | VN                           | 3.7 V |
|                       | VH                           | 4.2 V |

NOTE: VL= lower extreme test voltage  
VN= nominal voltage  
VH= upper extreme test voltage  
TN= normal temperature



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#### 4.4 Description of Support Units

The EUT has been tested independent unit.

#### 4.5 Measurement Uncertainty

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.25 \times 10^{-8}$   |
| 2   | Duty cycle                      | 0.37%                   |
| 3   | Occupied Bandwidth              | 3%                      |
| 4   | RF conducted power              | 0.75dB                  |
| 5   | RF power density                | 2.84dB                  |
| 6   | Conducted Spurious emissions    | 0.75dB                  |
| 7   | RF Radiated power               | 5.14dB (below 1GHz)     |
|     |                                 | 5.08dB (above 1GHz)     |
| 8   | Radiated Spurious emission test | 5.14dB (below 1GHz)     |
|     |                                 | 5.08dB (above 1GHz)     |
| 9   | Temperature test                | 1°C                     |
| 10  | Humidity test                   | 3%                      |
| 11  | Supply voltages                 | 1.5%                    |
| 12  | Time                            | 3%                      |



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#### 4.6 Test Location

All tests were performed at:

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Guangzhou, China 510663

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No tests were sub-contracted.



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#### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None



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## 5 Equipment List

| RF conducted test                           |                      |                 |               |            |               |
|---|----------------------|-----------------|---------------|------------|---------------|
| Test Equipment                              | Manufacturer         | Model No.       | Inventory No. | Cal. Date  | Cal. Due date |
| EXA Signal Analyzer(10Hz-44GHz)             | Agilent Technologies | N9010A          | EMC2138       | 2020-09-17 | 2021-09-16    |
| 6dB Attenuator                              | HP                   | 8491A           | EMC2062       | 2020-04-15 | 2022-04-14    |
| Measurement Software                        | TST                  | TST PASS V1.0.5 | N/A           | N/A        | N/A           |
| MI CABLE                                    | SGS-EMC              | 0.8M            | EMC2136       | 2019-11-02 | 2021-11-01    |
| Attenuator                                  | Weinschel Associates | WA41            | SEM021-09     | N/A        | N/A           |
| Wideband Radio Communication Tester(CMW500) | R&S                  | CMW500          | EMC2215       | 2020-09-20 | 2021-09-19    |
| Power Meter (U2021XA_Ch2)                   | Agilent Technologies | U2021XA_Ch 2    | SEM009-02     | 2021-05-19 | 2022-05-18    |

| RE in Chamber(below 1GHz)                   |                             |               |               |            |               |
|---|-----------------------------|---------------|---------------|------------|---------------|
| Test Equipment                              | Manufacturer                | Model No.     | Inventory No. | Cal. Date  | Cal. Due date |
| Chamber cable                               | HangTianXing                | N/A           | EMC0542       | 2020-09-09 | 2022-09-08    |
| Trilog Broadband Antenna(25MHz-1GHz)-Lab    | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168     | SEM003-18     | 2019-02-22 | 2022-02-22    |
| Amplifier(9kHz-1.3GHz)                      | HP                          | 8447F         | EMC2065       | 2021-05-19 | 2022-05-18    |
| 10m Semi-Anechoic Chamber                   | ETS                         | N/A           | EMC0530       | 2019-10-20 | 2022-10-19    |
| Test Software E3                            | Audix                       | Ver.6.120110a | GZE100-61     | N/A        | N/A           |
| EMI Test Receiver(1Hz-8GHz)                 | Rohde & Schwarz             | ESW8          | EMC2220       | 2021-05-26 | 2022-05-25    |
| Chamber cable                               | HangTianXing                | N/A           | EMC0542       | 2020-09-09 | 2022-09-08    |
| Trilog Broadband Antenna(25MHz-1GHz)        | SCHWARZBECK                 | VULB 9160     | EMC2025       | 2020-09-24 | 2023-09-23    |
| Signal Generator (10MHz-20GHz)              | Rohde & Schwarz             | SMR20         | EMC0516       | 2021-01-11 | 2022-01-10    |
| Wideband Radio Communication Tester(CMW500) | R&S                         | CMW500        | EMC2215       | 2020-09-20 | 2021-09-19    |



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| RE in Chamber(above 1GHz)                         |                                    |               |               |            |               |
|---|------------------------------------|---------------|---------------|------------|---------------|
| Test Equipment                                    | Manufacturer                       | Model No.     | Inventory No. | Cal. Date  | Cal. Due date |
| Chamber cable(Above 1GHz)                         | Scoflex                            | KMKM-8.0m     | EMC0545       | 2020-09-09 | 2022-09-08    |
| Horn Antenna(1GHz-18GHz)                          | SCHWARZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D    | EMC2026       | 2019-09-25 | 2022-09-24    |
| 1GHz-26.5 GHz<br>Pre-Amplifier                    | Agilent                            | 8449B         | EMC0521       | 2021-01-08 | 2022-01-07    |
| 966 Anechoic<br>Chamber                           | C.R.T                              | 9m x 6m x 6m  | EMC2142       | 2020-12-20 | 2023-12-19    |
| EXA Signal<br>Analyzer(10Hz-44GHz)                | Keysight                           | N9010A        | EMC2138       | 2020-09-17 | 2021-09-16    |
| Test Software E3                                  | Audix                              | Ver.6.120110a | GZE100-61     | N/A        | N/A           |
| Horn Antenna(14-40GHz)                            | SCHWARZBECK                        | BBHA 9170     | EMC2041       | 2020-06-28 | 2023-06-27    |
| Microwave Broadband<br>Preamplifier<br>(18-40GHz) | SCHWARZBECK                        | BBV 9721      | EMC2172       | 2020-09-09 | 2021-09-08    |
| Wideband Radio<br>Communication<br>Tester(CMW500) | R&S                                | CMW500        | EMC2215       | 2020-09-20 | 2021-09-19    |
| Substitution Antenna                              | SCHWARZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D    | EMC2026       | 2019-09-25 | 2022-09-24    |
| Signal Generator<br>(10MHz-20GHz)                 | Rohde & Schwarz                    | SMR20         | EMC0516       | 2021-01-11 | 2022-01-10    |

| General used equipment |              |          |              |            |              |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment              | Manufacturer | Model No | Inventory No | Cal Date   | Cal Due Date |
| DMM                    | Fluke        | 73       | EMC0006      | 2021-07-05 | 2022-07-04   |
| DMM                    | Fluke        | 73       | EMC0007      | 2021-07-05 | 2022-07-04   |



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## 6 Radio Spectrum Matter Test Results

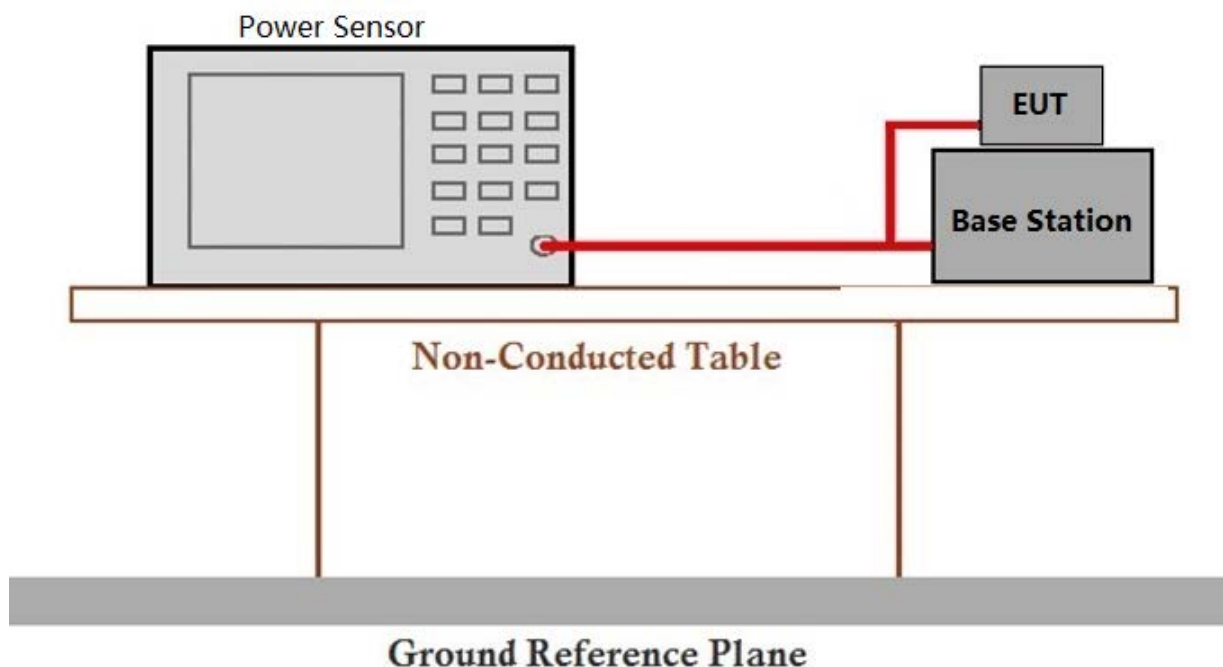
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ERP ≤ 7W(GSM850)  
 EIRP ≤ 2W(GSM1900)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data



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| Test Band: GSM850 |            |                       |       |       |              |       |          |       |       |             |         |
|-------------------|------------|-----------------------|-------|-------|--------------|-------|----------|-------|-------|-------------|---------|
| Test Mode         |            | Conducted Power (dBm) |       |       | Antenna gain |       | ERP(dBm) |       |       | Limit (dBm) | Verdict |
|                   |            | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH      | MCH   | HCH   |             |         |
| EGPRS             | 1 TX Slot  | 32.42                 | 32.33 | 32.13 | -1.82        | 0.33  | 30.6     | 30.51 | 30.31 | 38.45       | PASS    |
|                   | 2 TX Slots | 32.29                 | 32.24 | 32.03 | -1.82        | 0.33  | 30.47    | 30.42 | 30.21 | 38.45       | PASS    |
|                   | 3 TX Slots | 31.06                 | 31.04 | 30.80 | -1.82        | 0.33  | 29.24    | 29.22 | 28.98 | 38.45       | PASS    |
|                   | 4 TX Slots | 29.17                 | 29.11 | 28.77 | -1.82        | 0.33  | 27.35    | 27.29 | 26.95 | 38.45       | PASS    |
| GPRS              | 1 TX Slot  | 32.40                 | 32.25 | 32.05 | -1.82        | 0.33  | 30.58    | 30.43 | 30.23 | 38.45       | PASS    |
|                   | 2 TX Slots | 32.28                 | 32.19 | 31.96 | -1.82        | 0.33  | 30.46    | 30.37 | 30.14 | 38.45       | PASS    |
|                   | 3 TX Slots | 30.94                 | 30.90 | 30.67 | -1.82        | 0.33  | 29.12    | 29.08 | 28.85 | 38.45       | PASS    |
|                   | 4 TX Slots | 29.08                 | 28.99 | 28.63 | -1.82        | 0.33  | 27.26    | 27.17 | 26.81 | 38.45       | PASS    |

Note:  
1) dBd = dBi - 2.15  
2) EIRP = Conducted output power + Antenna gain (dBi)  
3) ERP = Conducted output power + Antenna gain (dBd)

| Test Band: PCS1900 |            |                       |       |       |              |       |           |       |       |             |         |
|--------------------|------------|-----------------------|-------|-------|--------------|-------|-----------|-------|-------|-------------|---------|
| Test Mode          |            | Conducted Power (dBm) |       |       | Antenna gain |       | EIRP(dBm) |       |       | Limit (dBm) | Verdict |
|                    |            | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH       | MCH   | HCH   |             |         |
| EGPRS              | 1 TX Slot  | 21.02                 | 20.97 | 22.43 | /            | -0.33 | 20.69     | 20.64 | 22.1  | 33.01       | PASS    |
|                    | 2 TX Slots | 20.87                 | 20.82 | 22.33 | /            | -0.33 | 20.54     | 20.49 | 22    | 33.01       | PASS    |
|                    | 3 TX Slots | 20.70                 | 20.69 | 22.21 | /            | -0.33 | 20.37     | 20.36 | 21.88 | 33.01       | PASS    |
|                    | 4 TX Slots | 20.57                 | 20.55 | 22.05 | /            | -0.33 | 20.24     | 20.22 | 21.72 | 33.01       | PASS    |
| GPRS               | 1 TX Slot  | 21.06                 | 20.75 | 22.27 | /            | -0.33 | 20.73     | 20.42 | 21.94 | 33.01       | PASS    |
|                    | 2 TX Slots | 20.95                 | 20.75 | 22.22 | /            | -0.33 | 20.62     | 20.42 | 21.89 | 33.01       | PASS    |
|                    | 3 TX Slots | 21.30                 | 20.65 | 22.13 | /            | -0.33 | 20.97     | 20.32 | 21.8  | 33.01       | PASS    |
|                    | 4 TX Slots | 20.32                 | 20.53 | 22.02 | /            | -0.33 | 19.99     | 20.2  | 21.69 | 33.01       | PASS    |

Note:  
1) dBd = dBi - 2.15  
2) EIRP = Conducted output power + Antenna gain (dBi)



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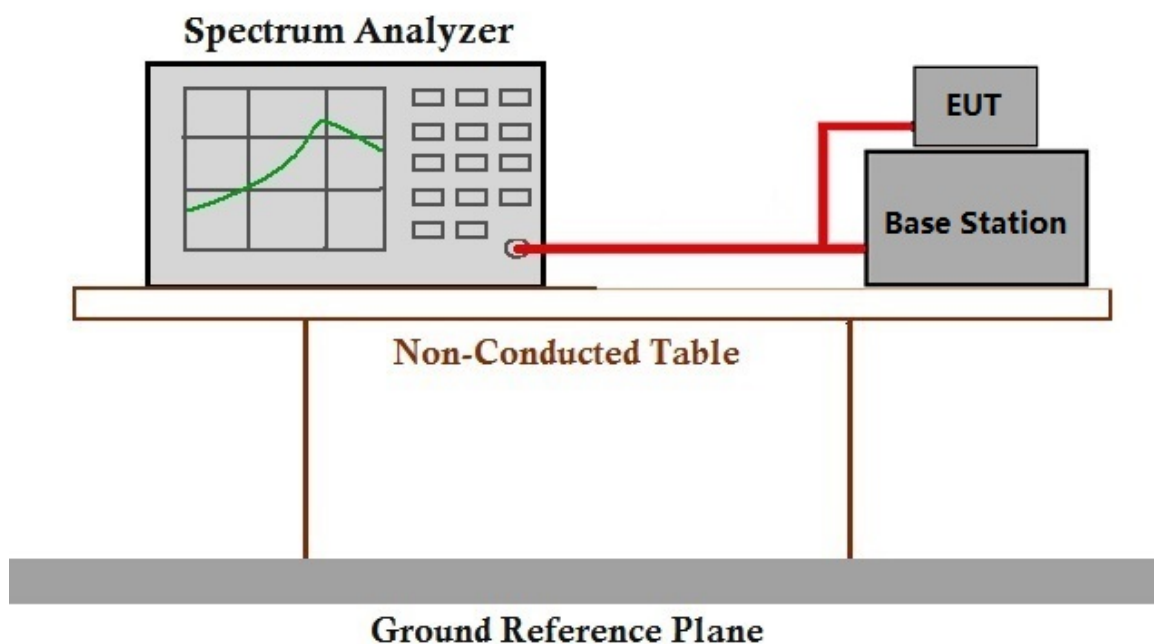
## 6.2 Peak-Average Ratio

Test Requirement: §24.232  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: ≤13dB

### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.2.2 Test Setup Diagram



### 6.2.3 Measurement Data



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| Test Band: GSM850 |                  |      |      |            |         |
|-------------------|------------------|------|------|------------|---------|
| Test Mode         | Test result (dB) |      |      | Limit (dB) | Verdict |
|                   | LCH              | MCH  | HCH  |            |         |
| EGPRS             | 3.92             | 3.85 | 3.95 | 13         | PASS    |
| GPRS              | 3.99             | 4.00 | 3.97 | 13         | PASS    |

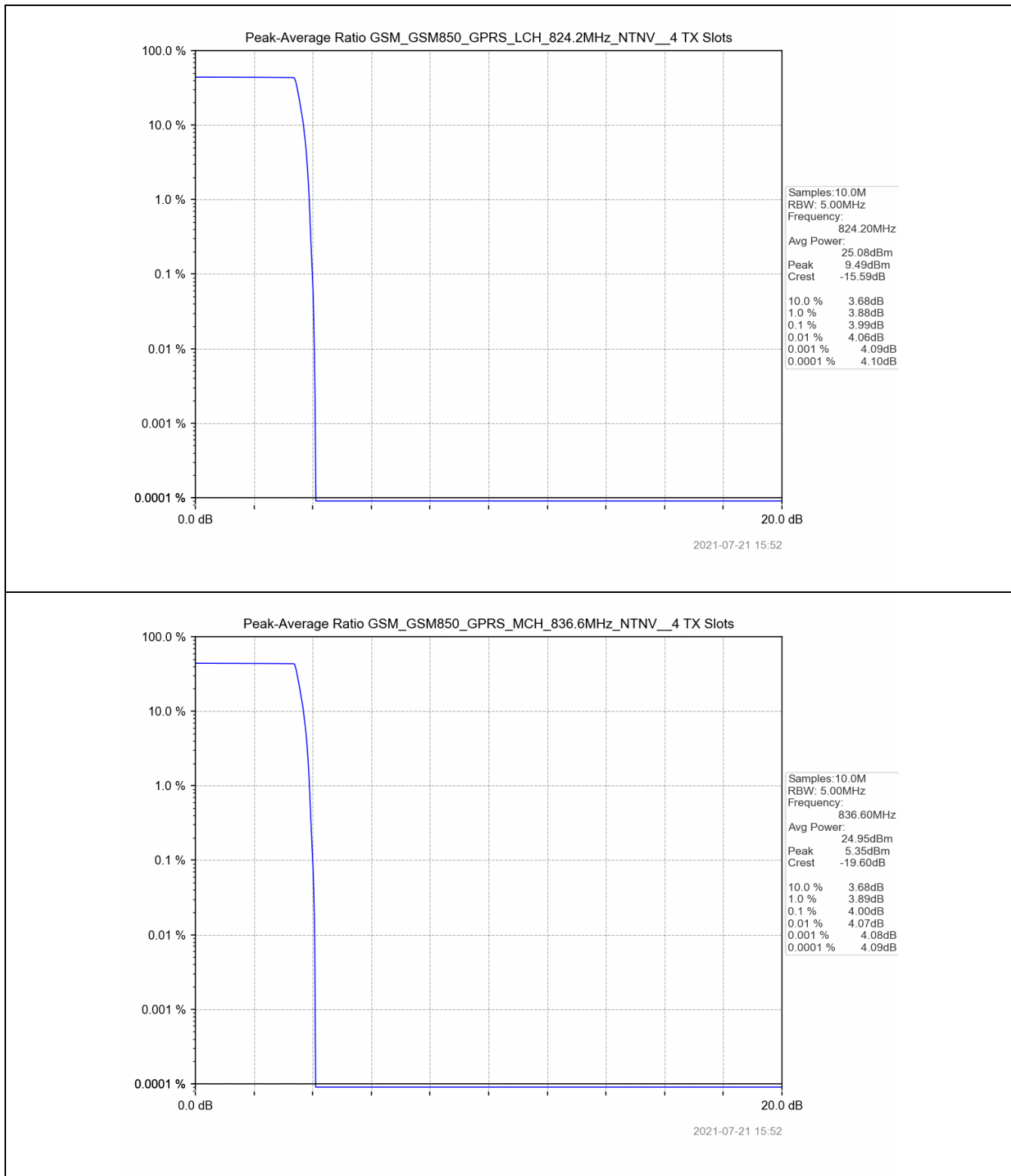
| Test Band: PCS1900 |                  |      |      |            |         |
|--------------------|------------------|------|------|------------|---------|
| Test Mode          | Test result (dB) |      |      | Limit (dB) | Verdict |
|                    | LCH              | MCH  | HCH  |            |         |
| EGPRS              | 3.77             | 3.87 | 3.81 | 13         | PASS    |
| GPRS               | 3.97             | 3.84 | 3.85 | 13         | PASS    |



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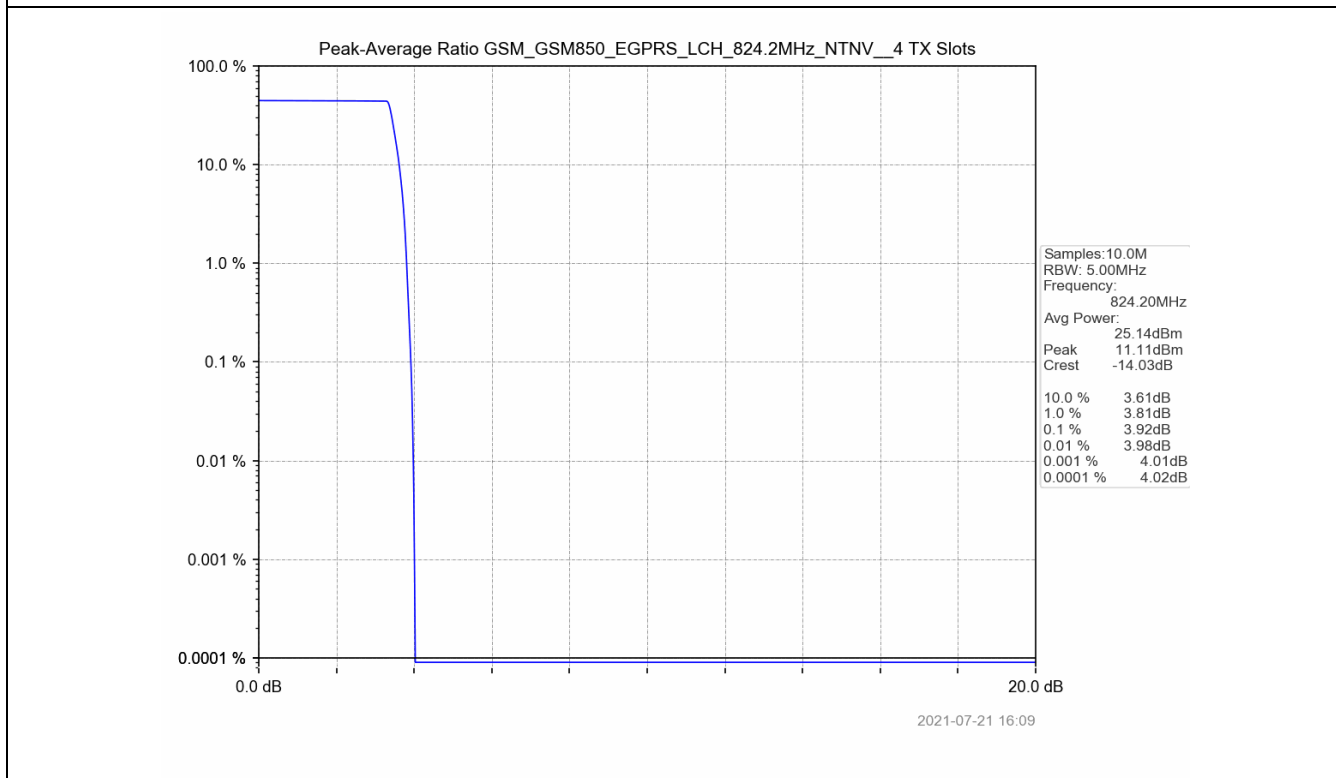
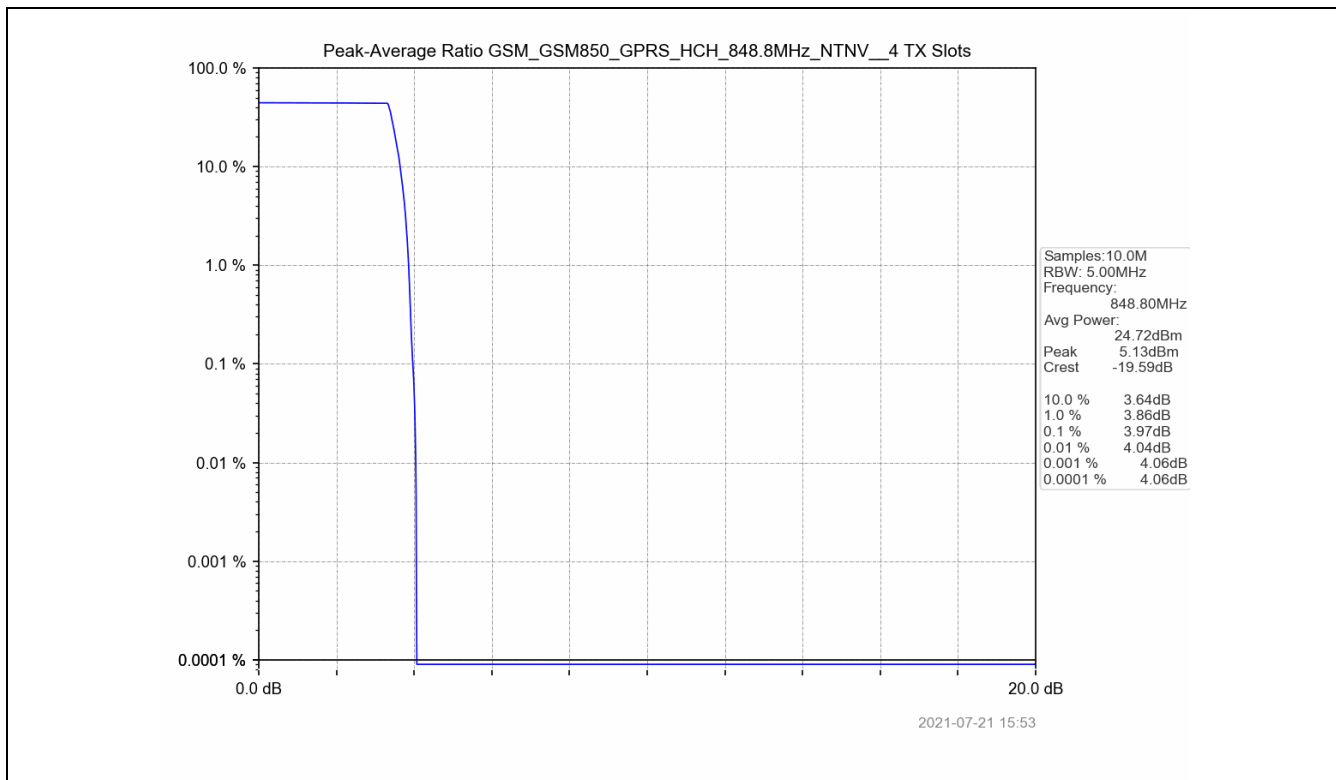
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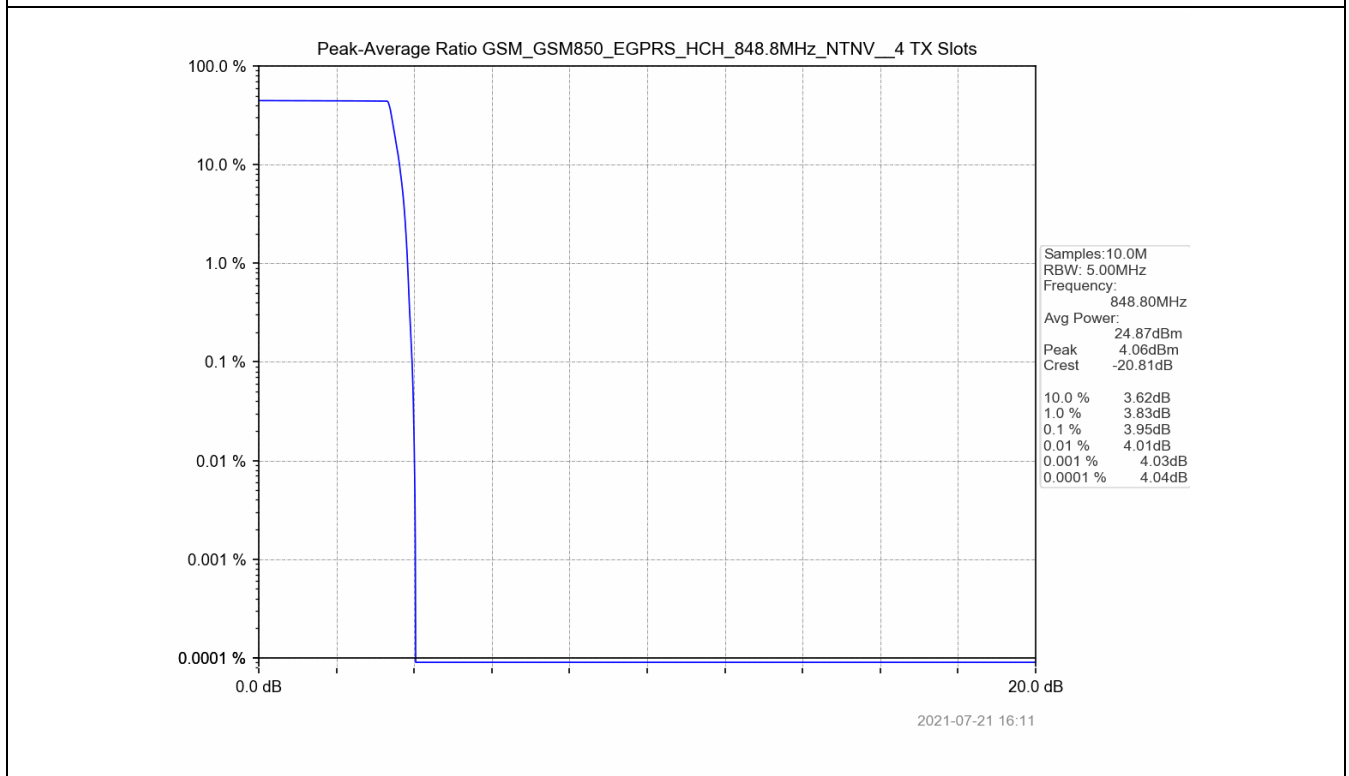
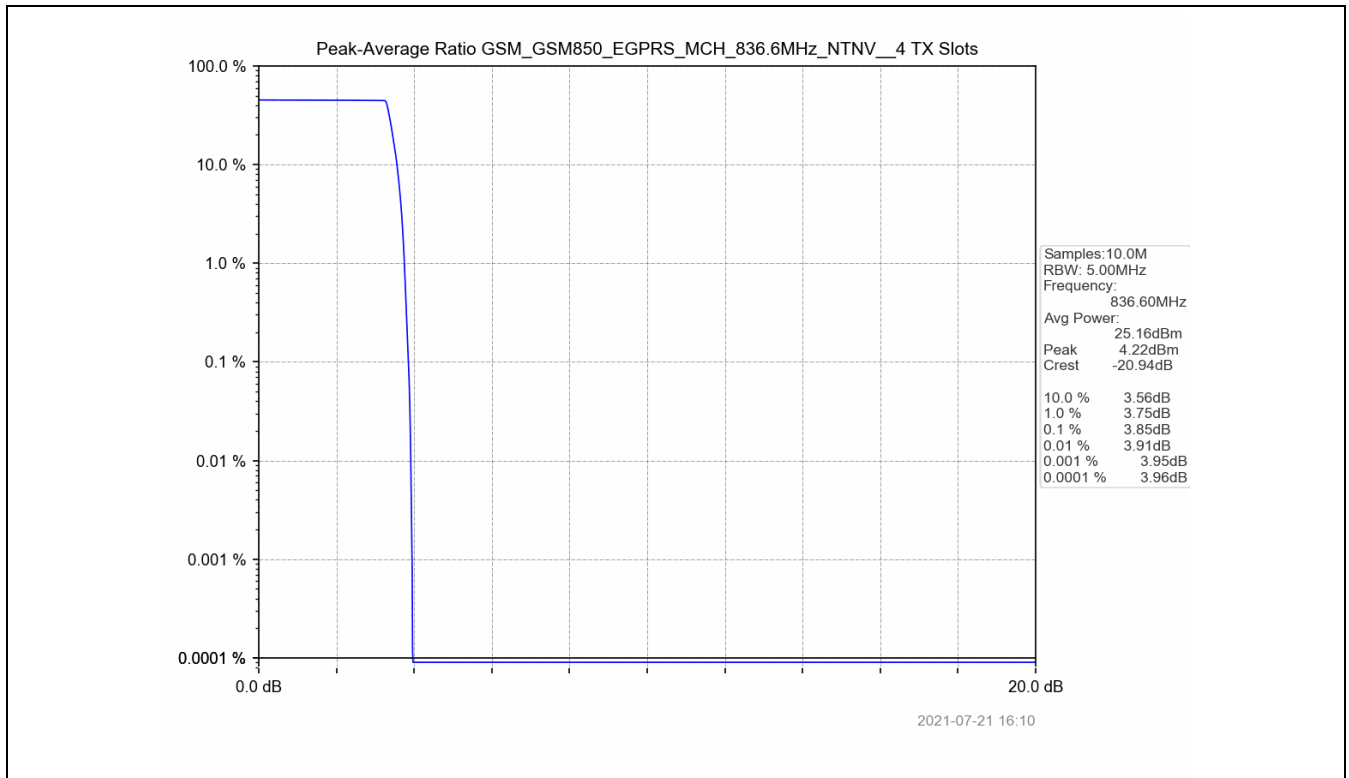
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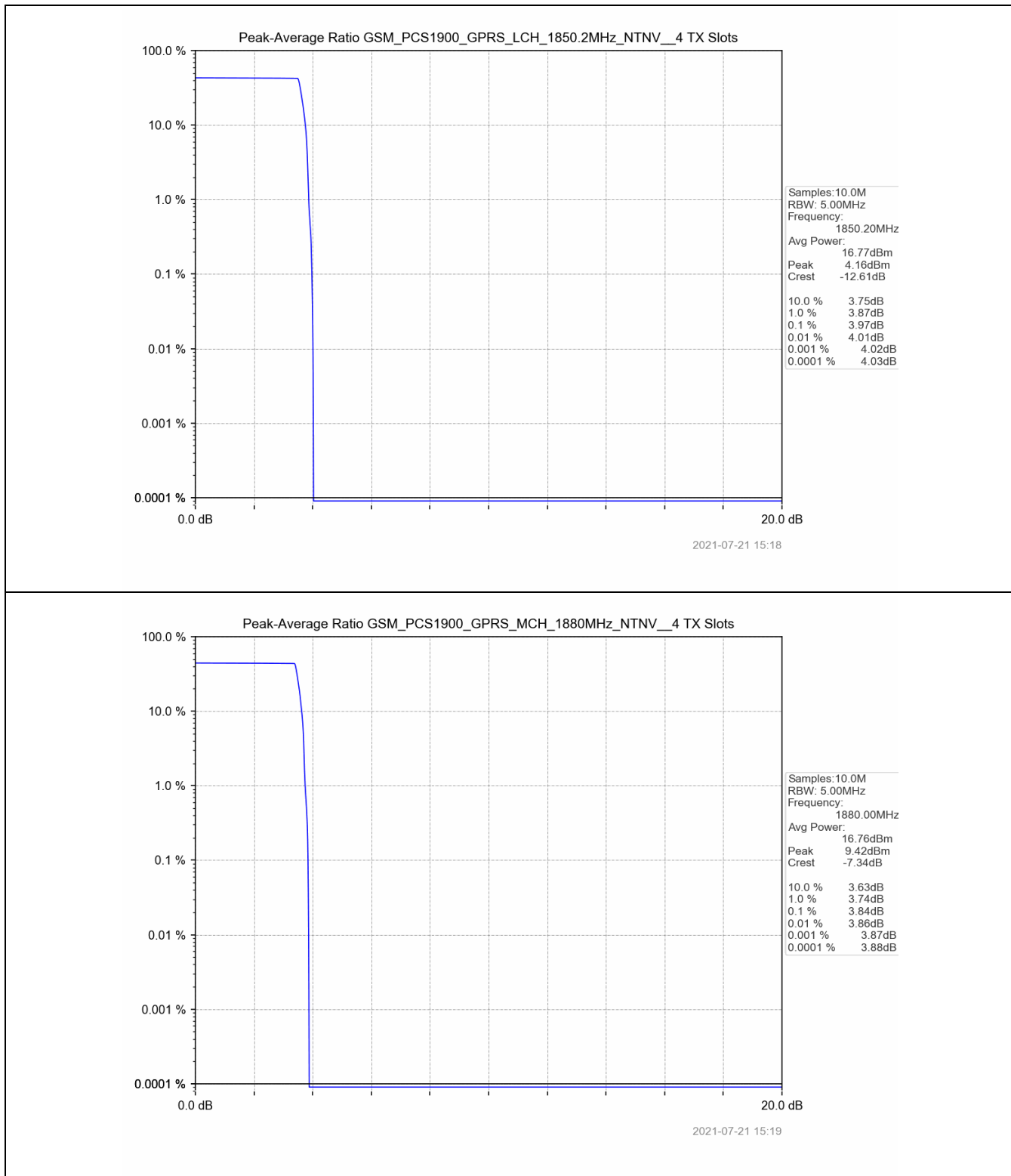
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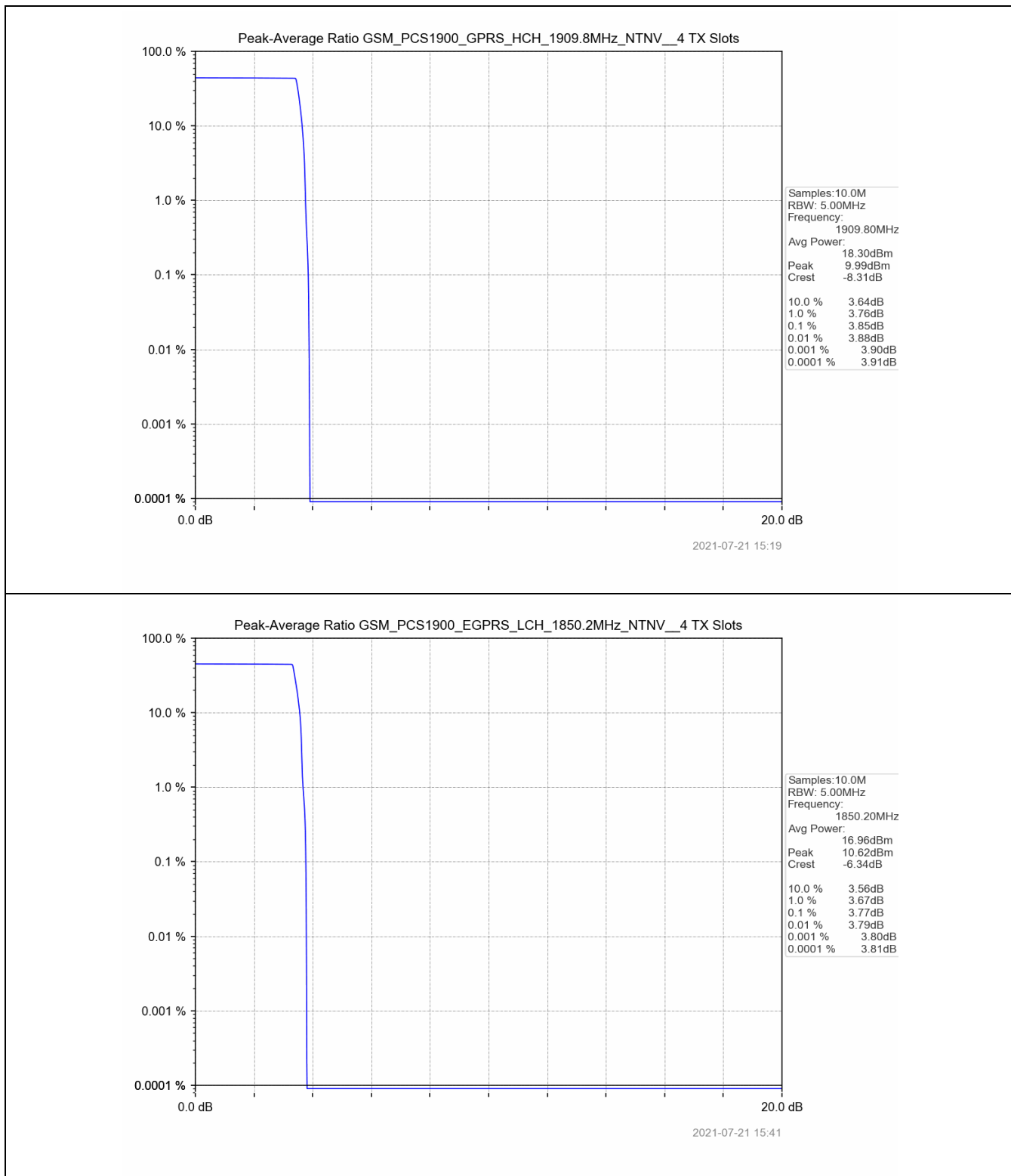
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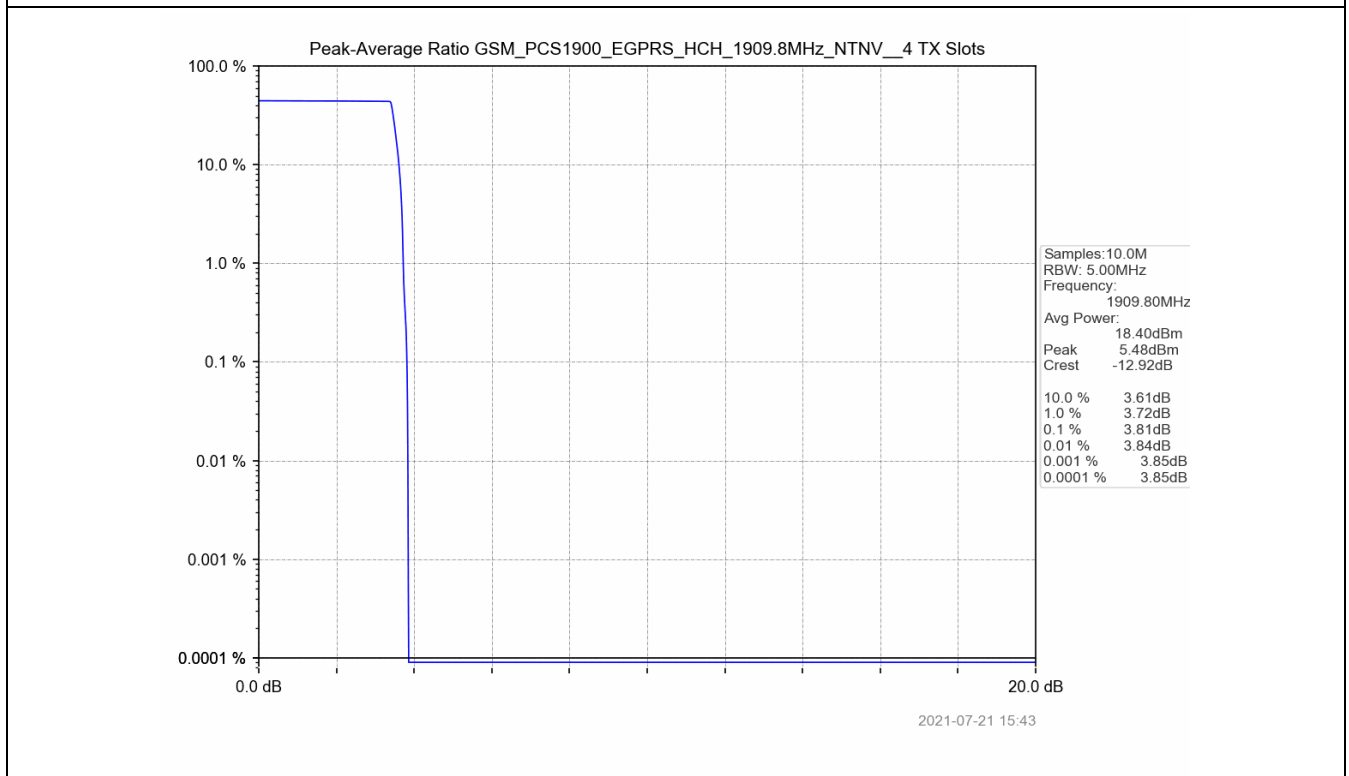
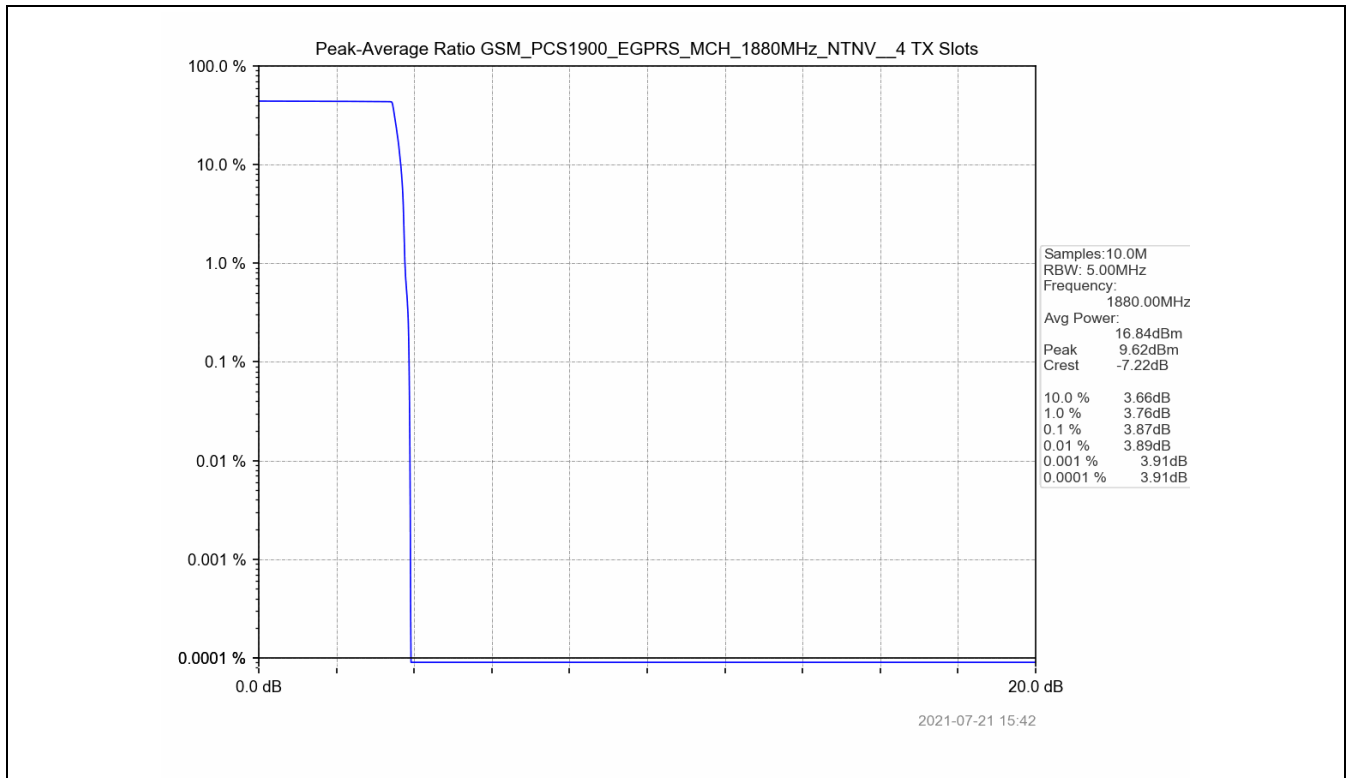


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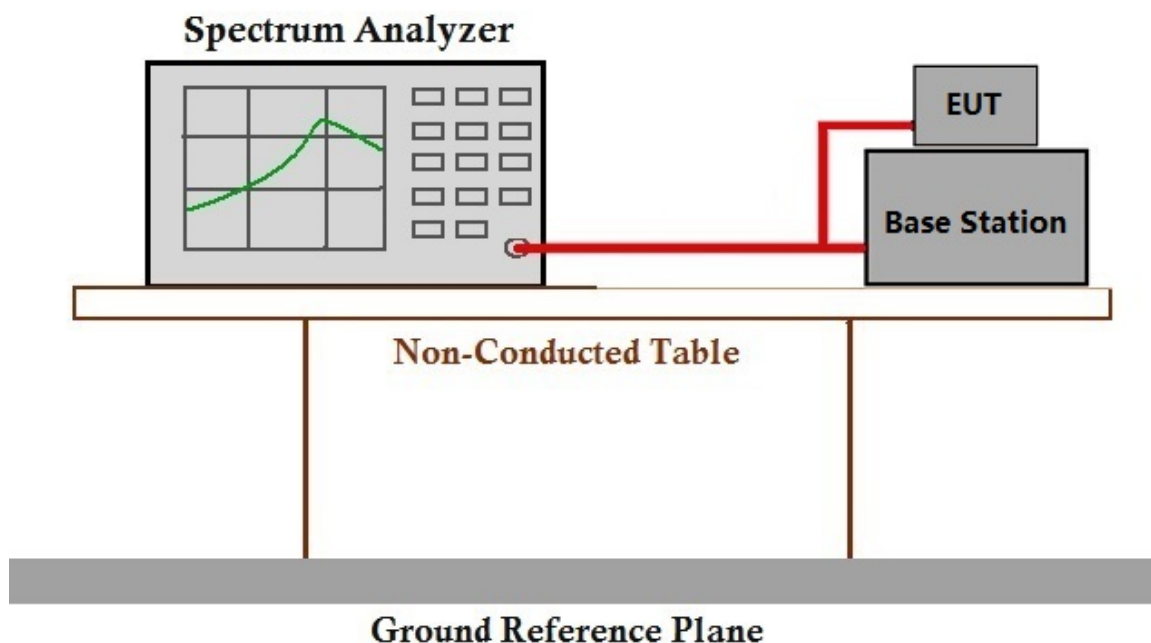
### 6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: OBW: No limit  
 EBW: No limit

#### 6.3.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data





| Test Band: GSM850 |                              |       |       |       |         |
|-------------------|------------------------------|-------|-------|-------|---------|
| Test Mode         | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                   | LCH                          | MCH   | HCH   |       |         |
| EGPRS             | 0.244                        | 0.246 | 0.247 | N/A   | PASS    |
| GPRS              | 0.249                        | 0.245 | 0.249 | N/A   | PASS    |

| Test Band: PCS1900 |                              |       |       |       |         |
|--------------------|------------------------------|-------|-------|-------|---------|
| Test Mode          | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                    | LCH                          | MCH   | HCH   |       |         |
| EGPRS              | 0.245                        | 0.247 | 0.247 | N/A   | PASS    |
| GPRS               | 0.246                        | 0.244 | 0.246 | N/A   | PASS    |

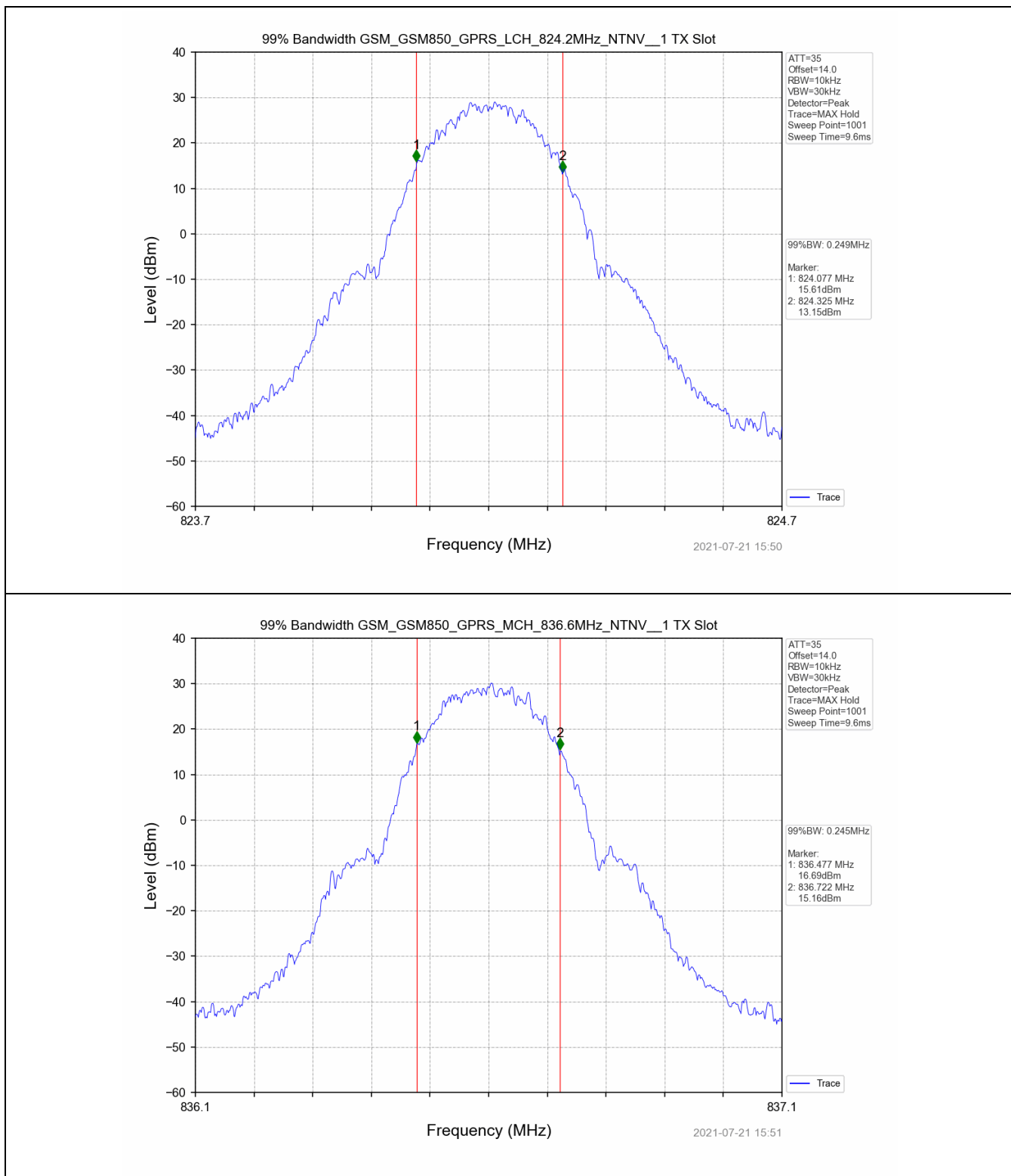
| Test Band: GSM850 |                      |       |       |       |         |
|-------------------|----------------------|-------|-------|-------|---------|
| Test Mode         | 26dB Bandwidth (MHz) |       |       | Limit | Verdict |
|                   | LCH                  | MCH   | HCH   |       |         |
| EGPRS             | 0.315                | 0.317 | 0.326 | N/A   | PASS    |
| GPRS              | 0.325                | 0.316 | 0.318 | N/A   | PASS    |

| Test Band: PCS1900 |                      |       |       |       |         |
|--------------------|----------------------|-------|-------|-------|---------|
| Test Mode          | 26dB Bandwidth (MHz) |       |       | Limit | Verdict |
|                    | LCH                  | MCH   | HCH   |       |         |
| EGPRS              | 0.320                | 0.312 | 0.322 | N/A   | PASS    |
| GPRS               | 0.317                | 0.318 | 0.319 | N/A   | PASS    |



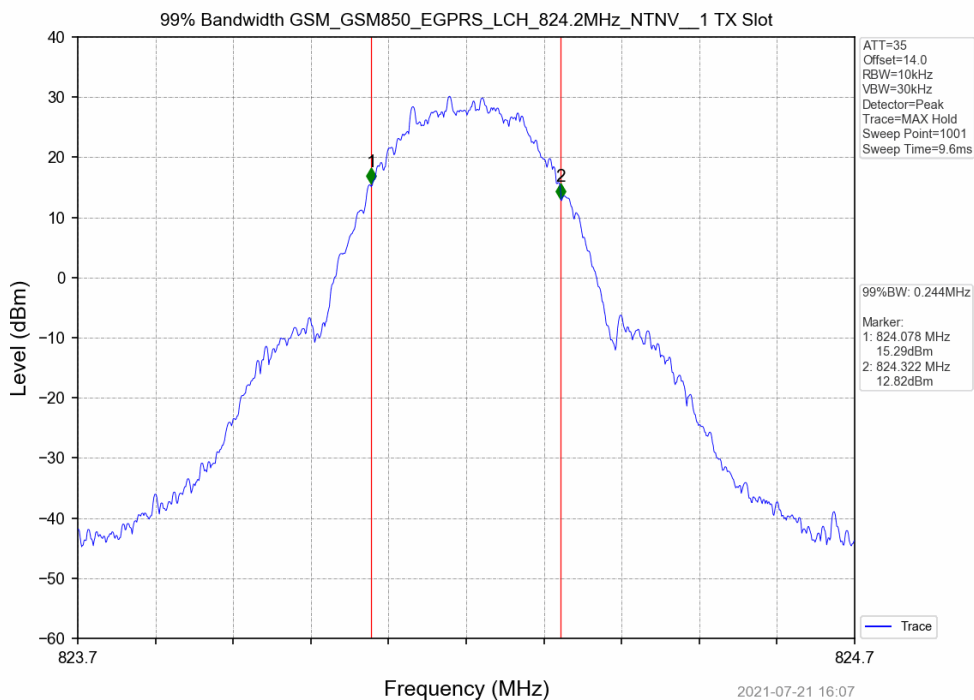
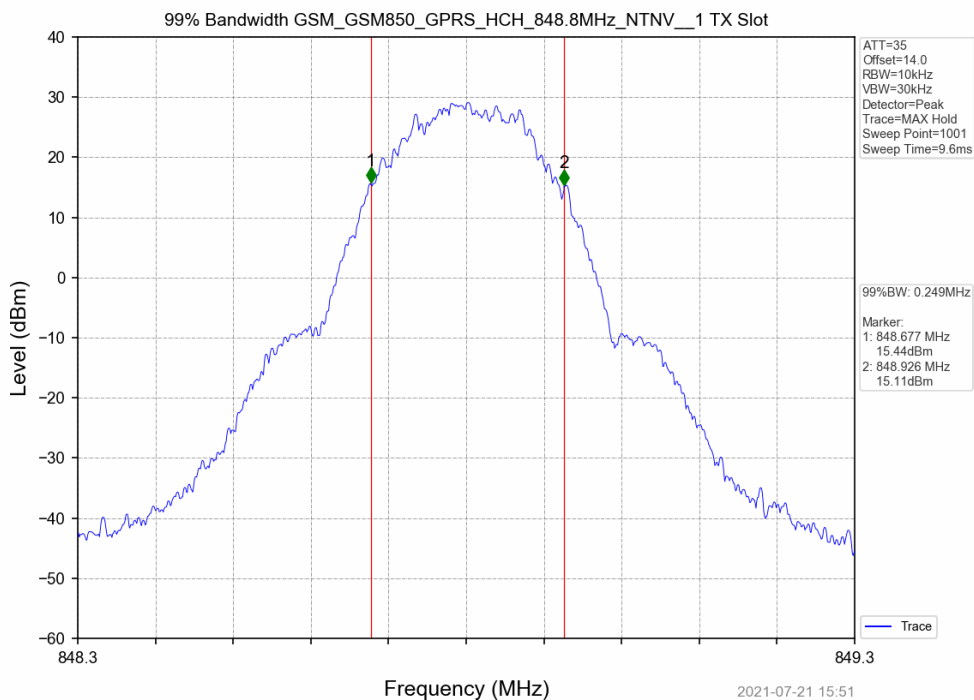
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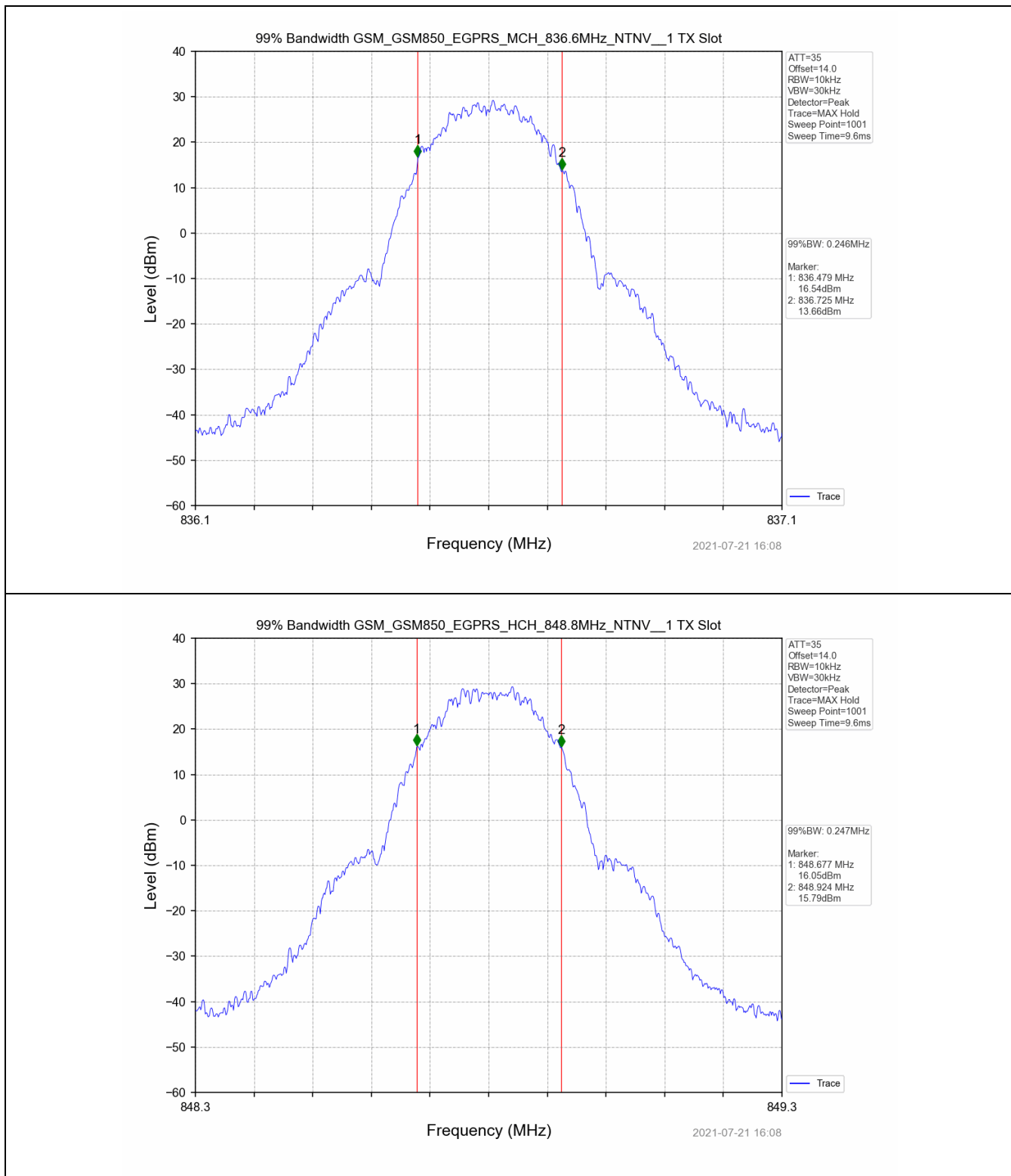


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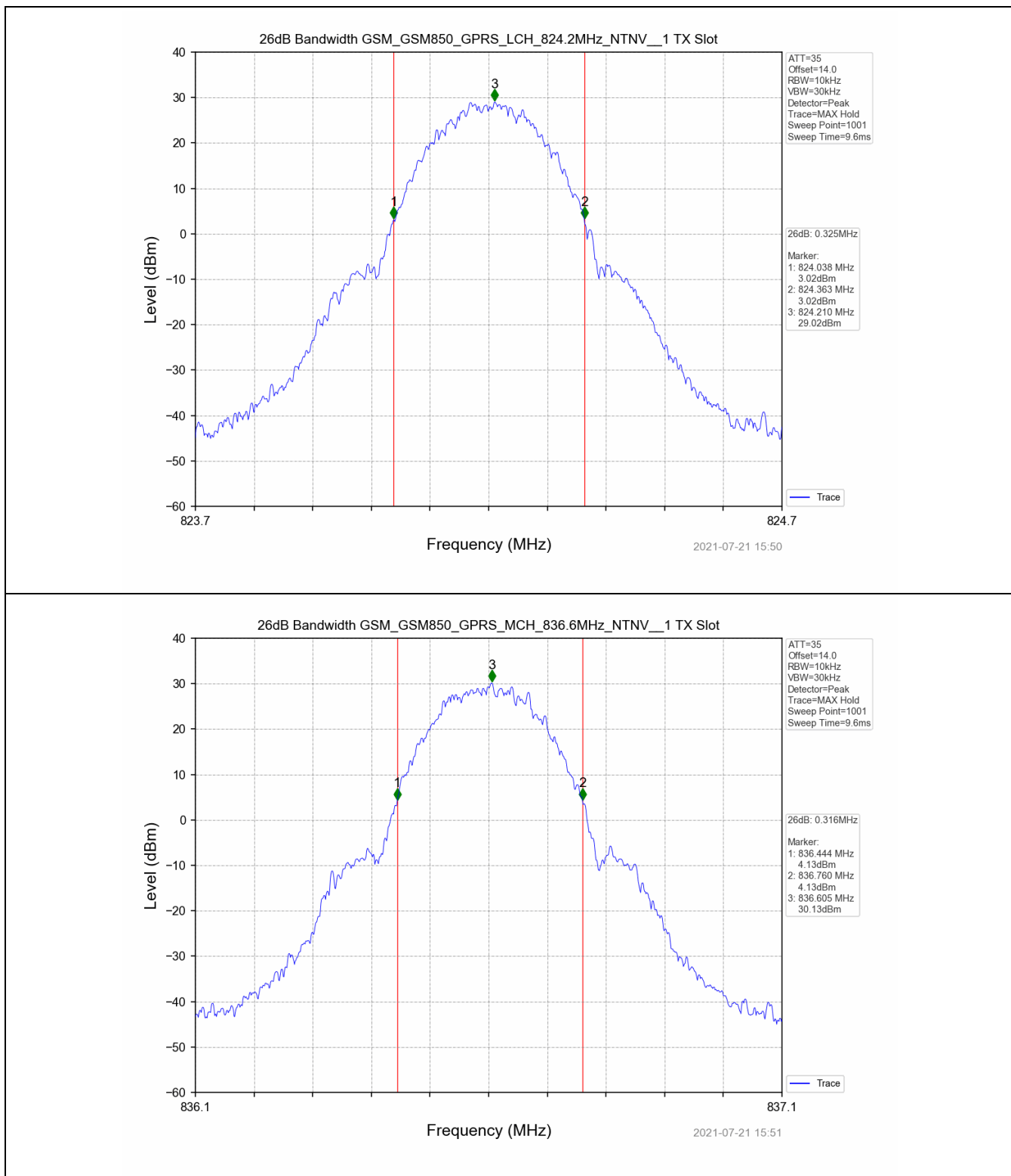
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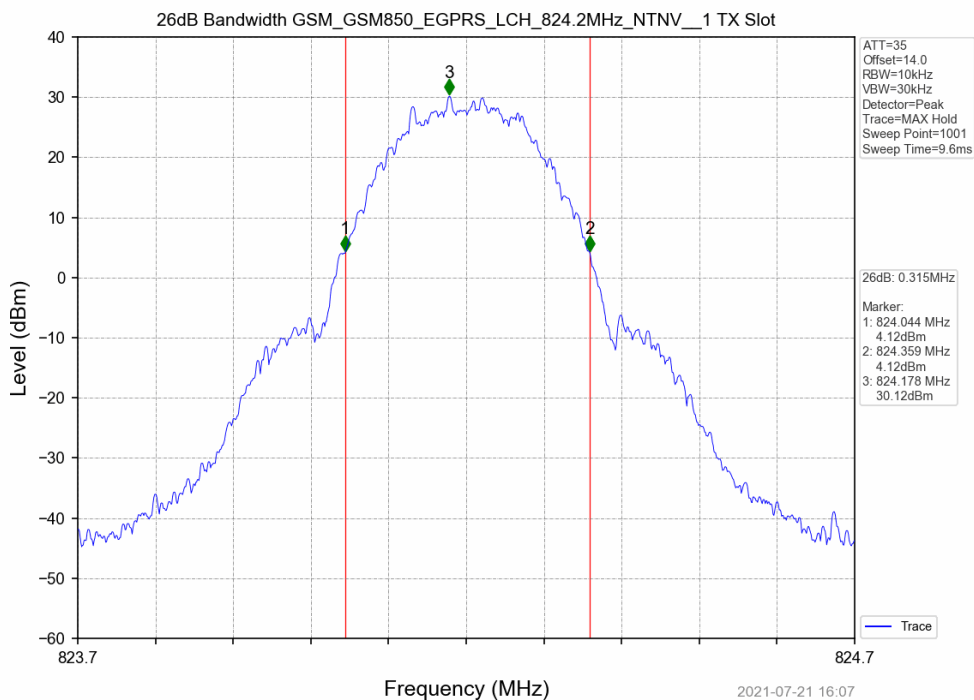
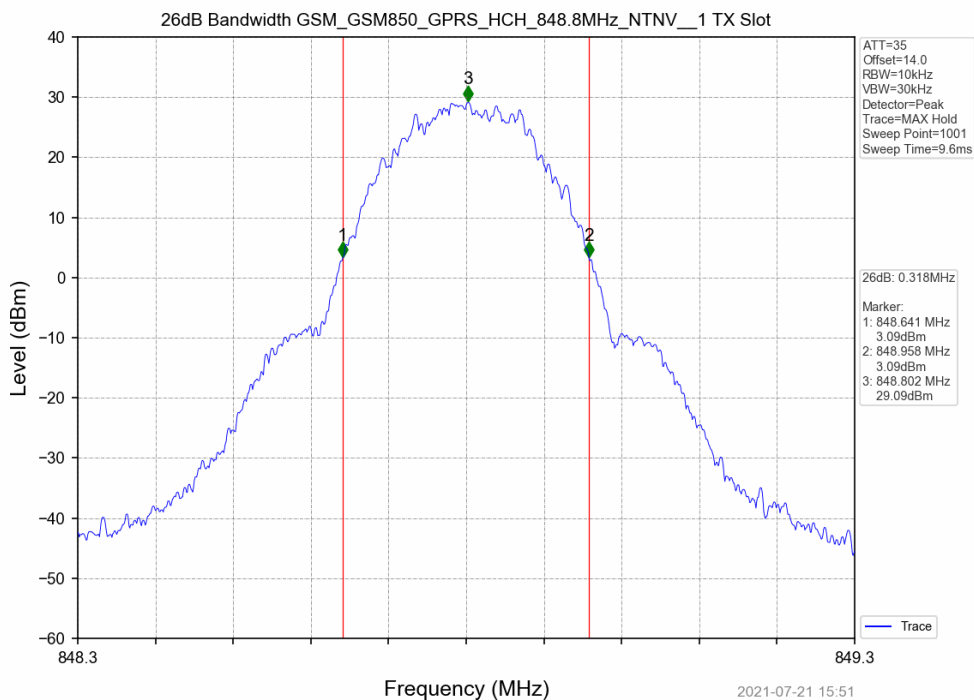


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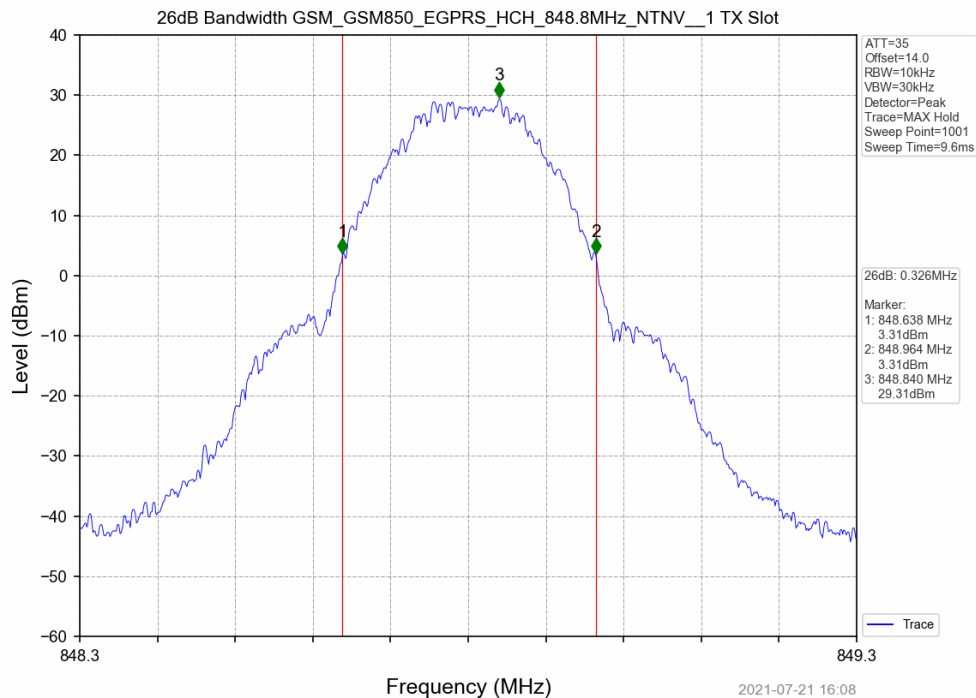
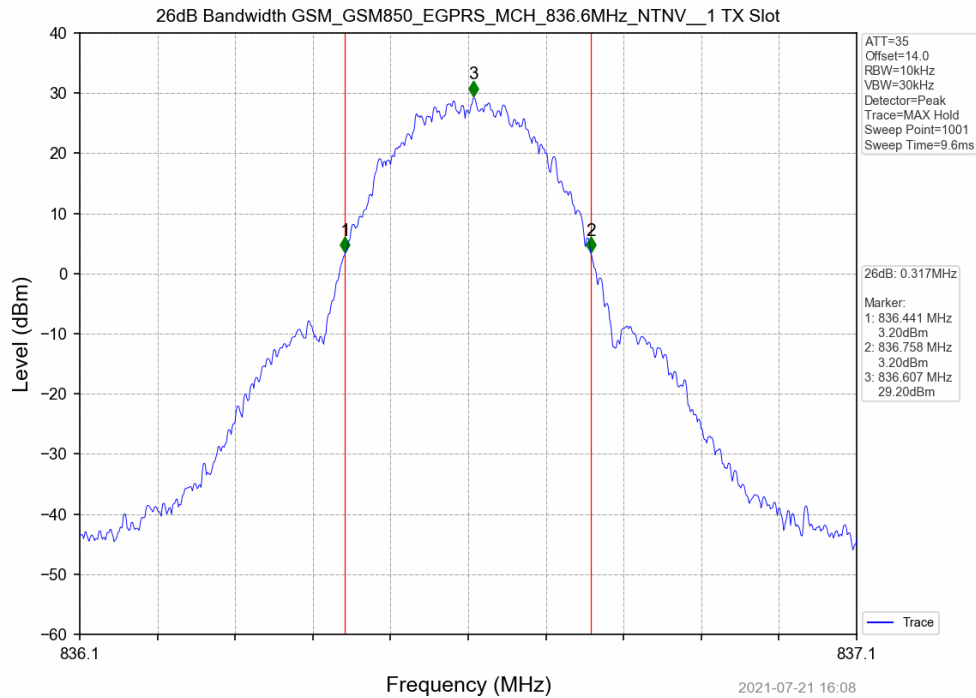
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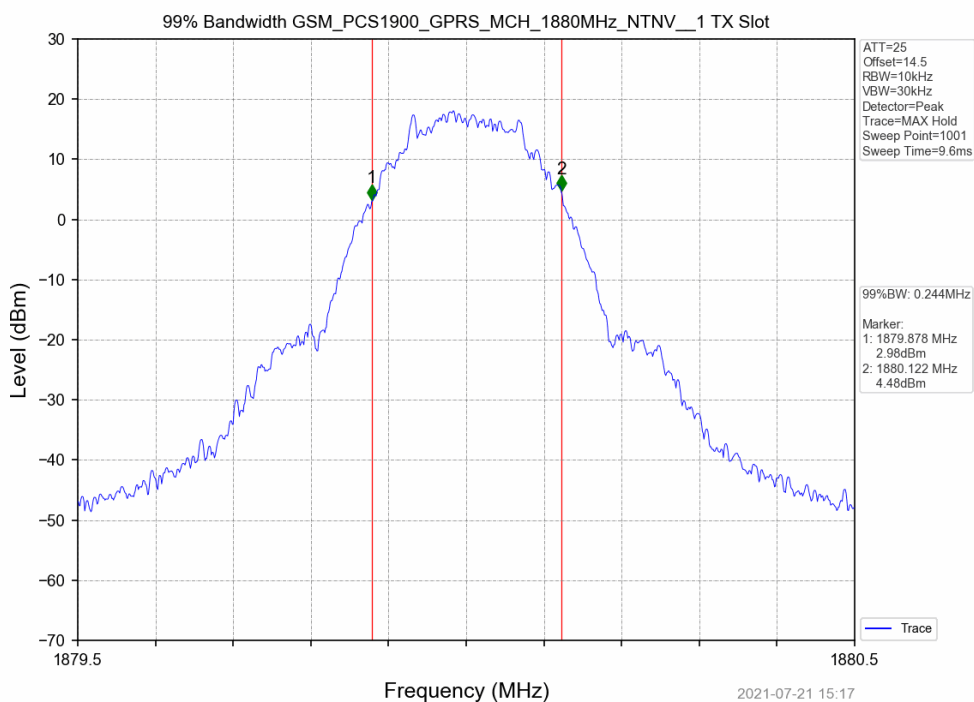
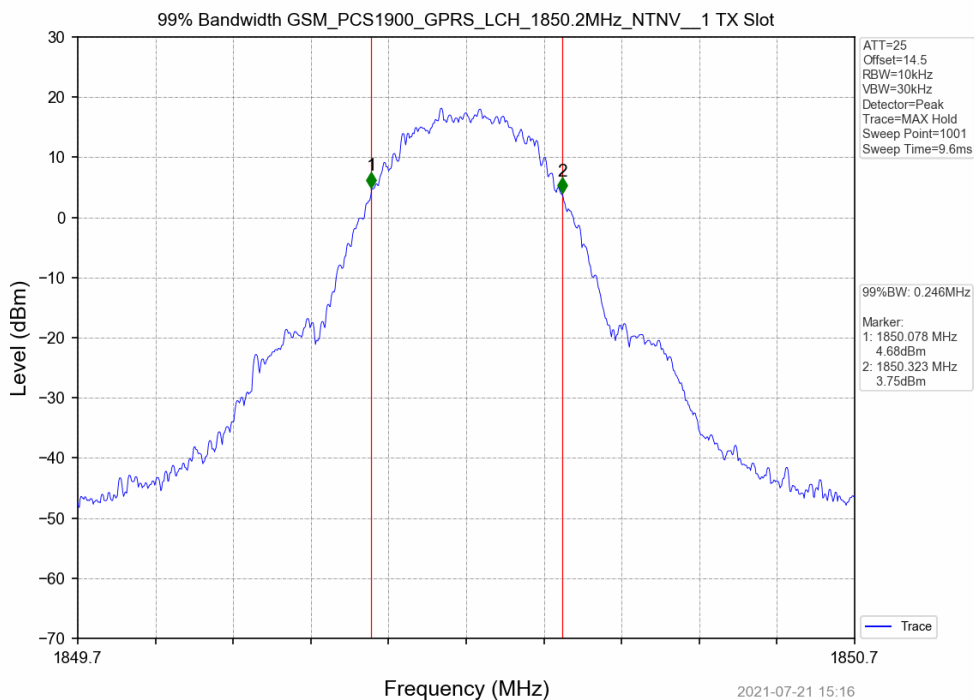
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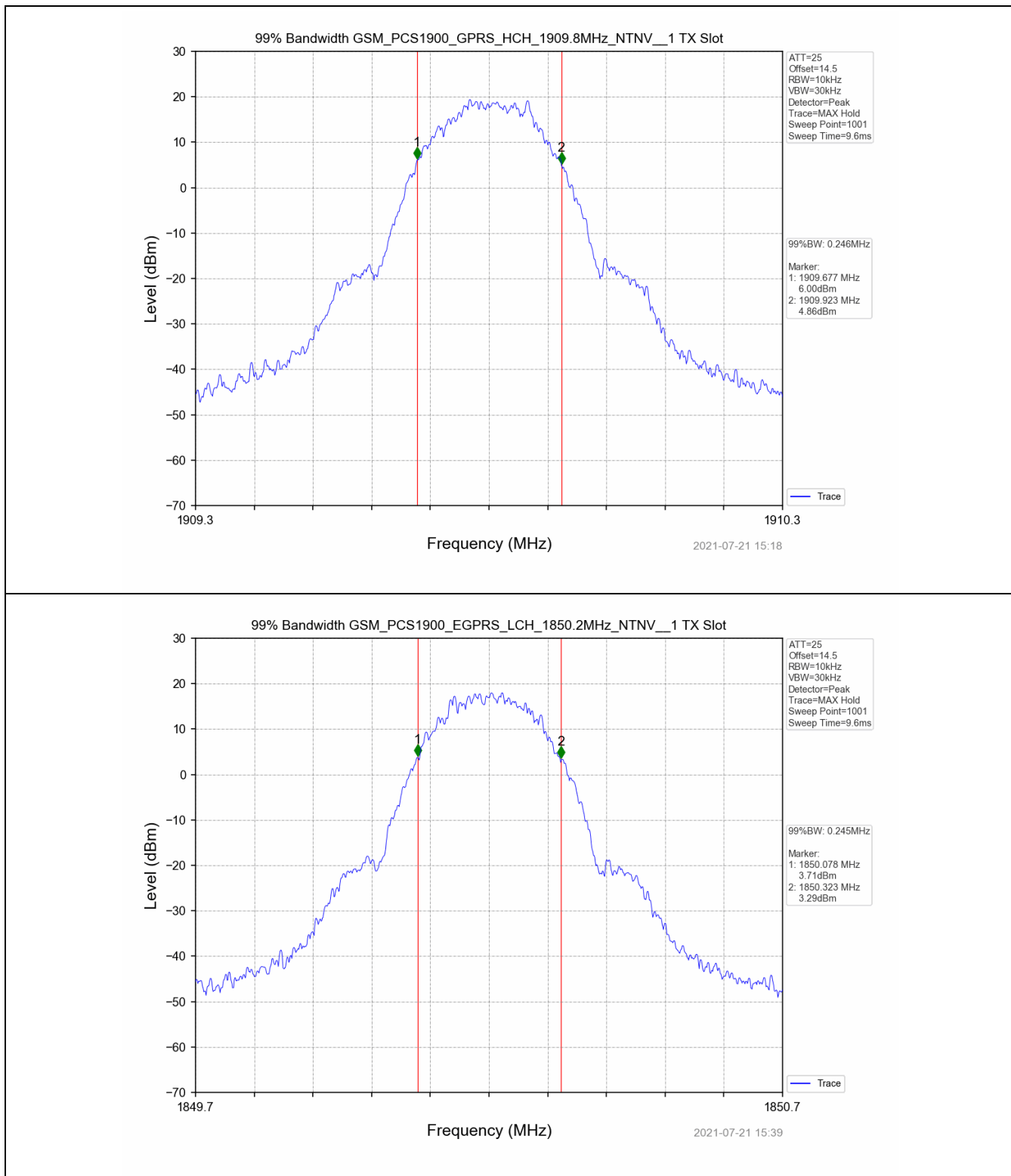


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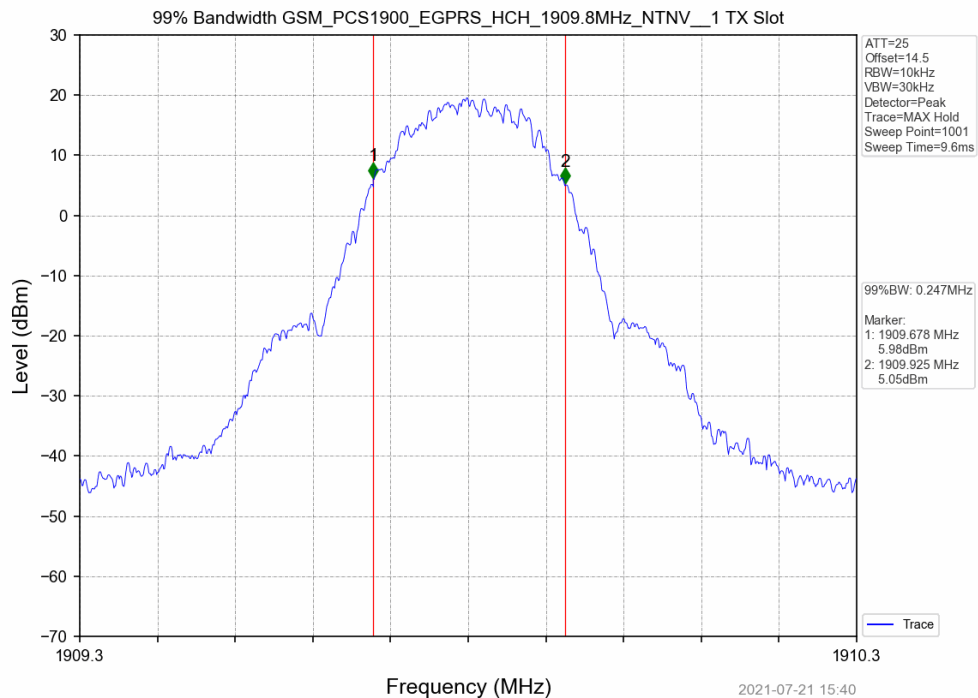
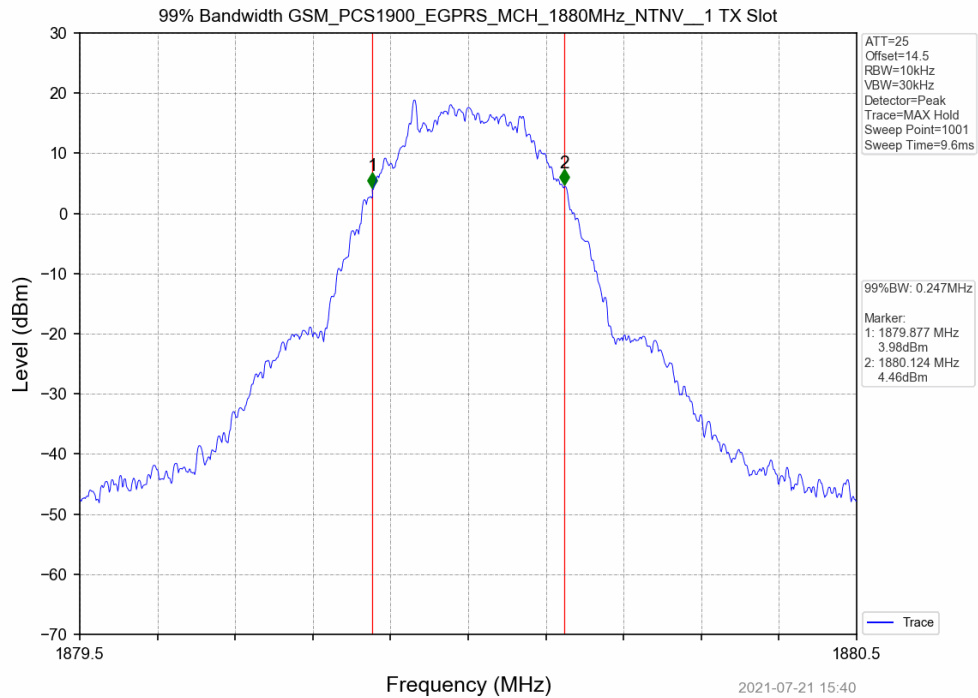
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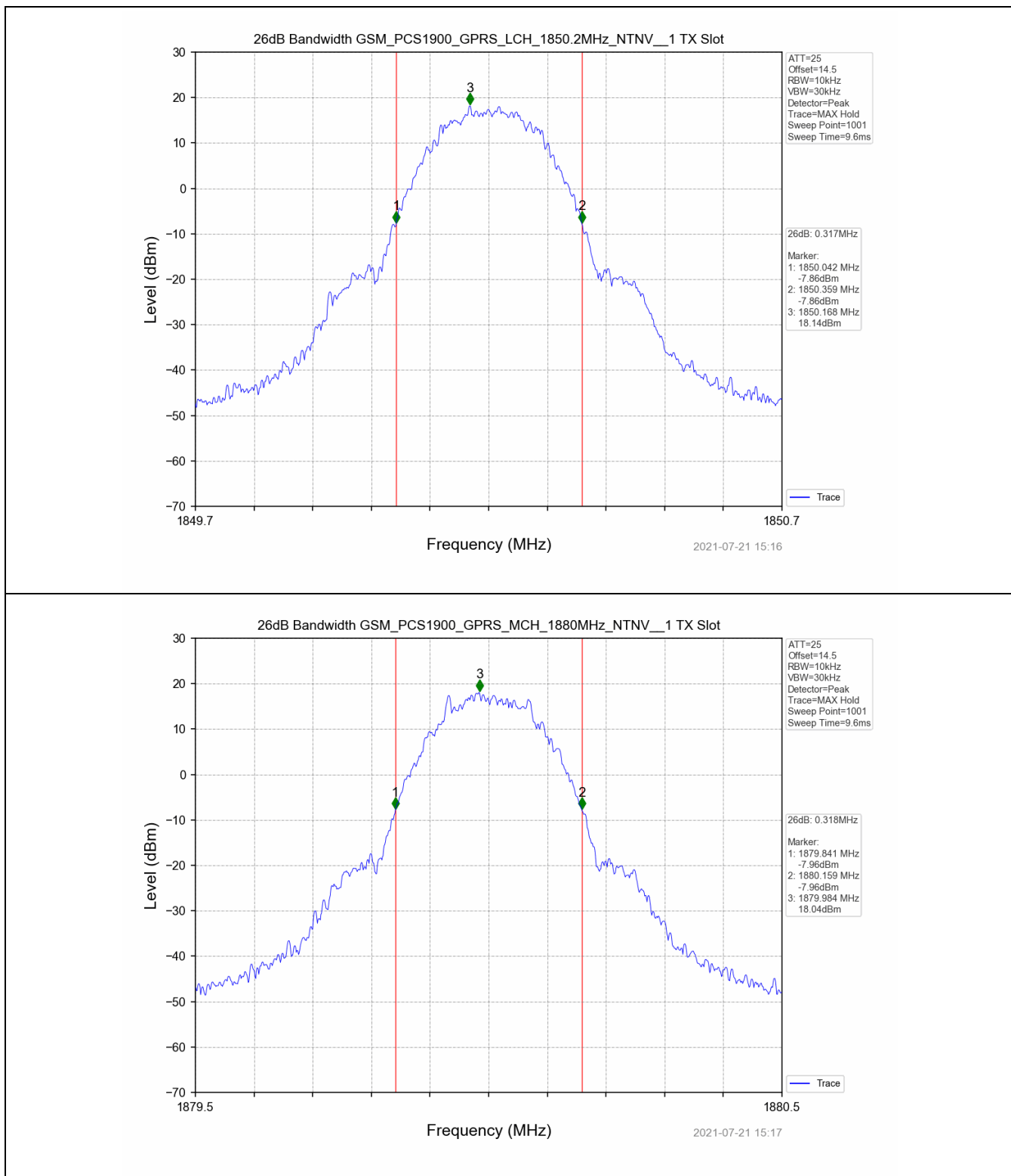




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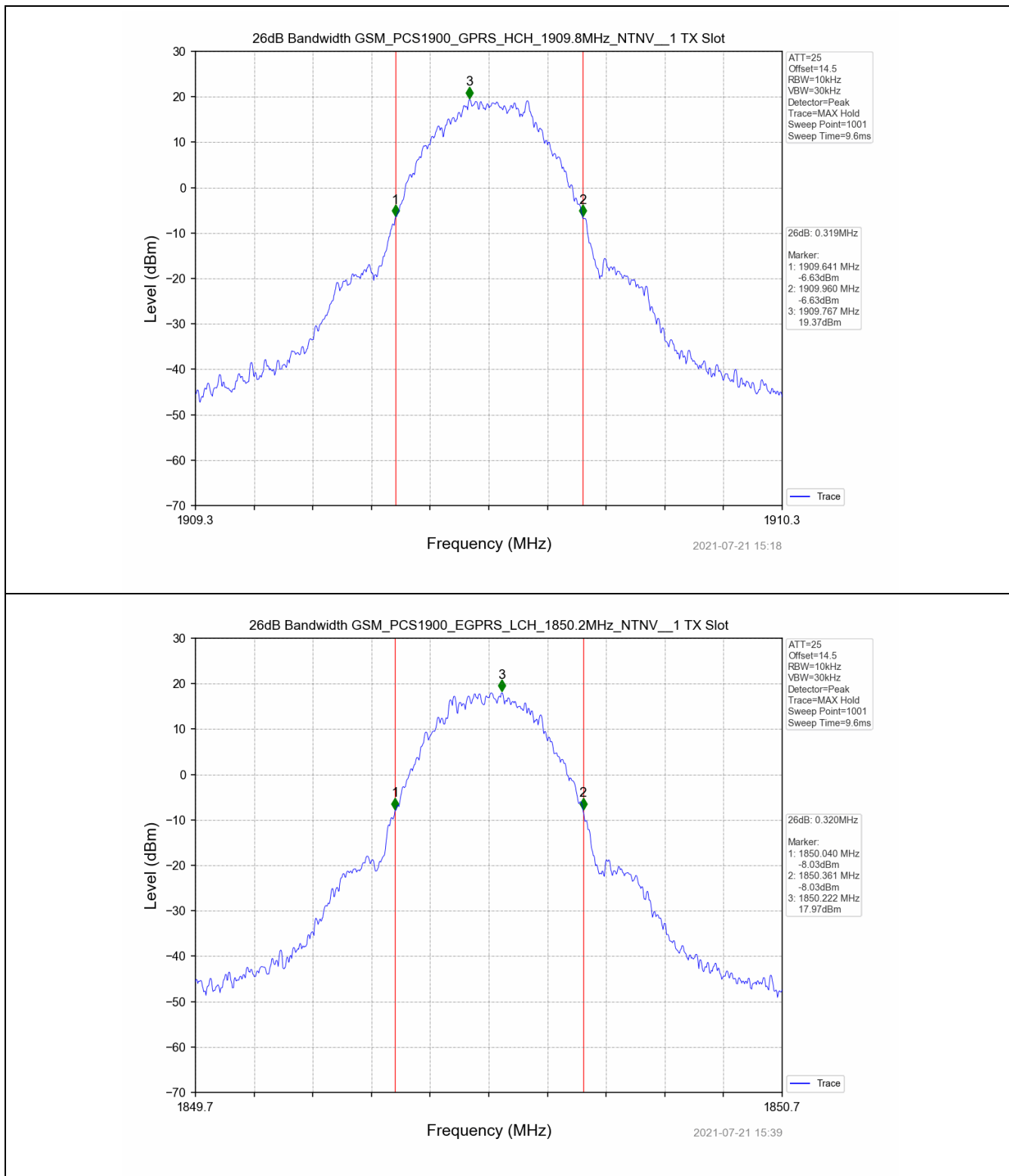


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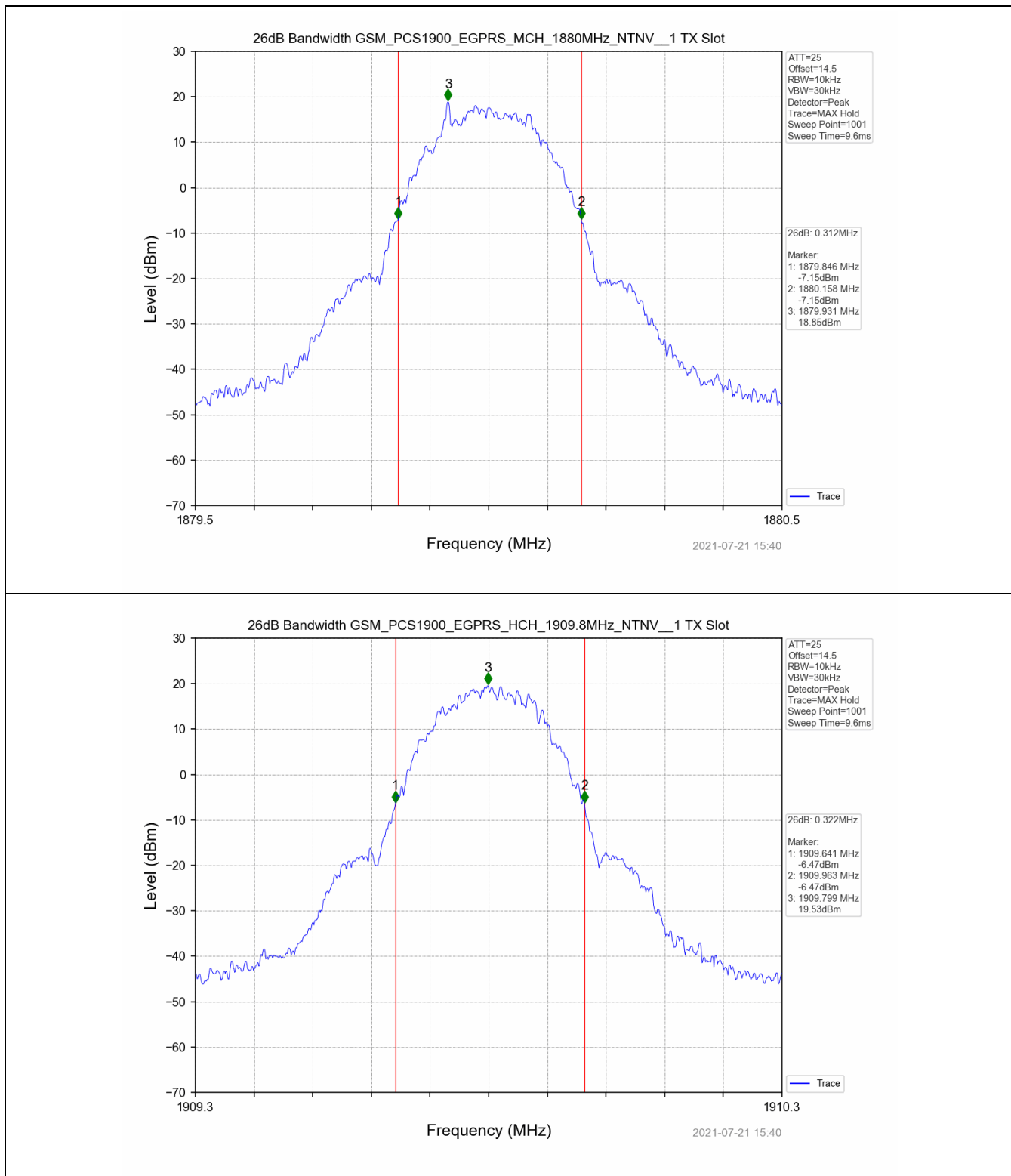


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## 6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:  $\leq -13\text{dBm}/1\% \cdot \text{EBW}$ , in 1 MHz bands immediately outside and adjacent to the frequency block.

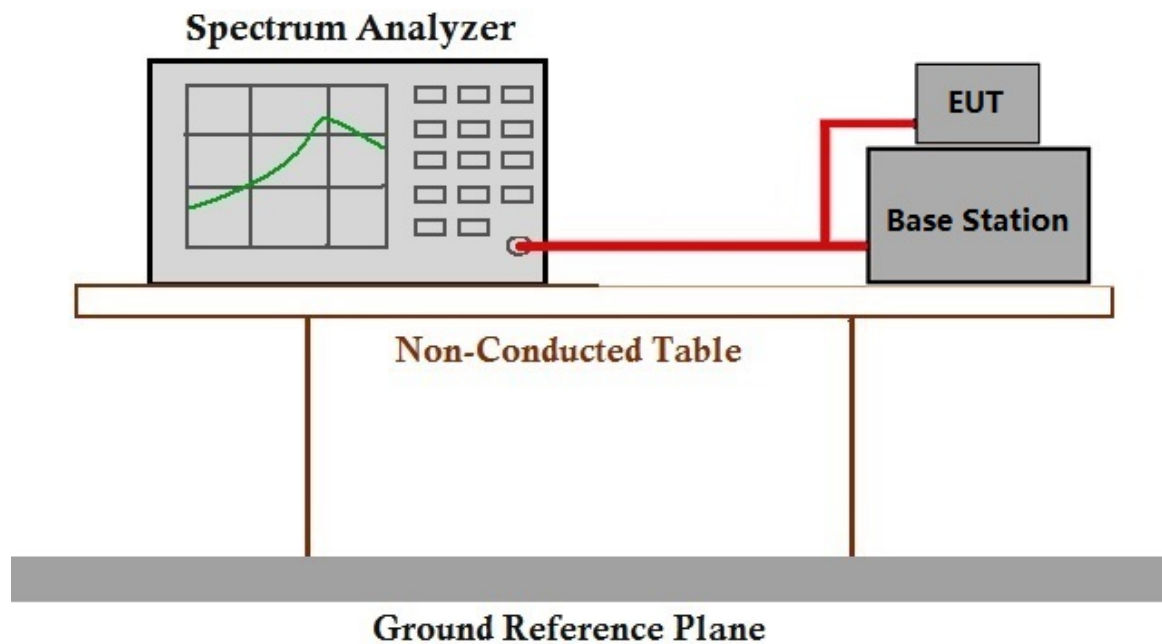
### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar

Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.4.2 Test Setup Diagram



### 6.4.3 Measurement Data

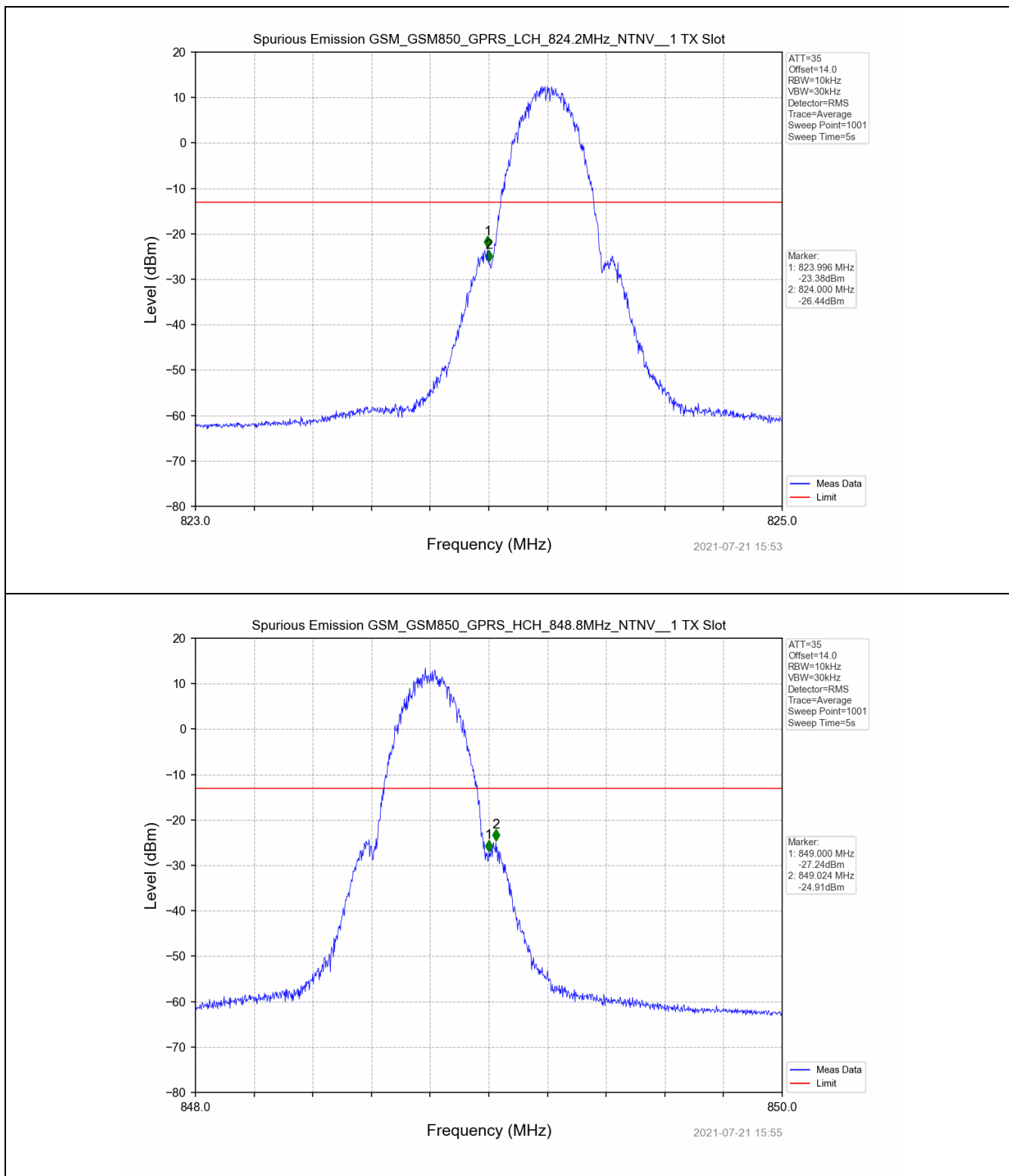


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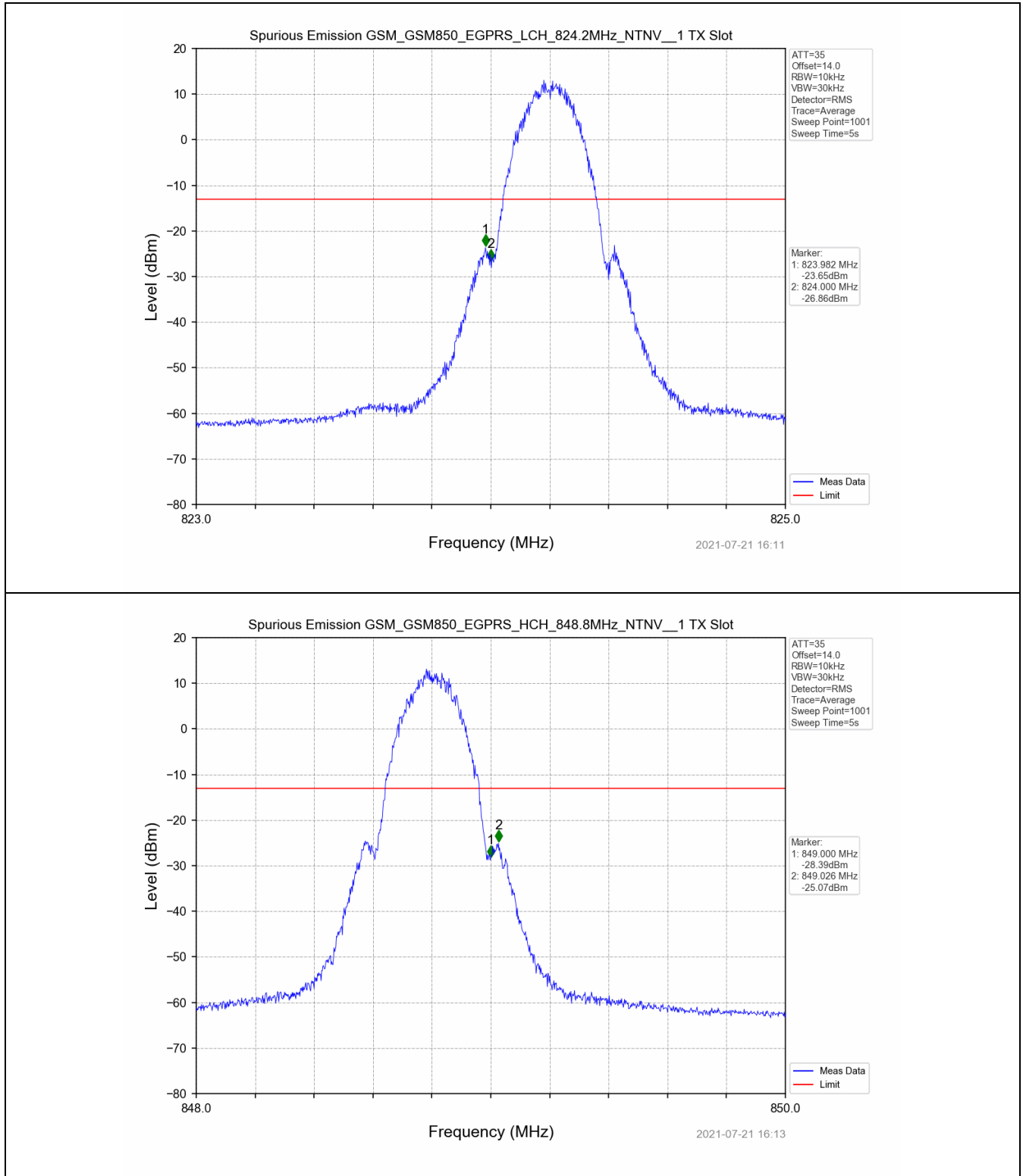




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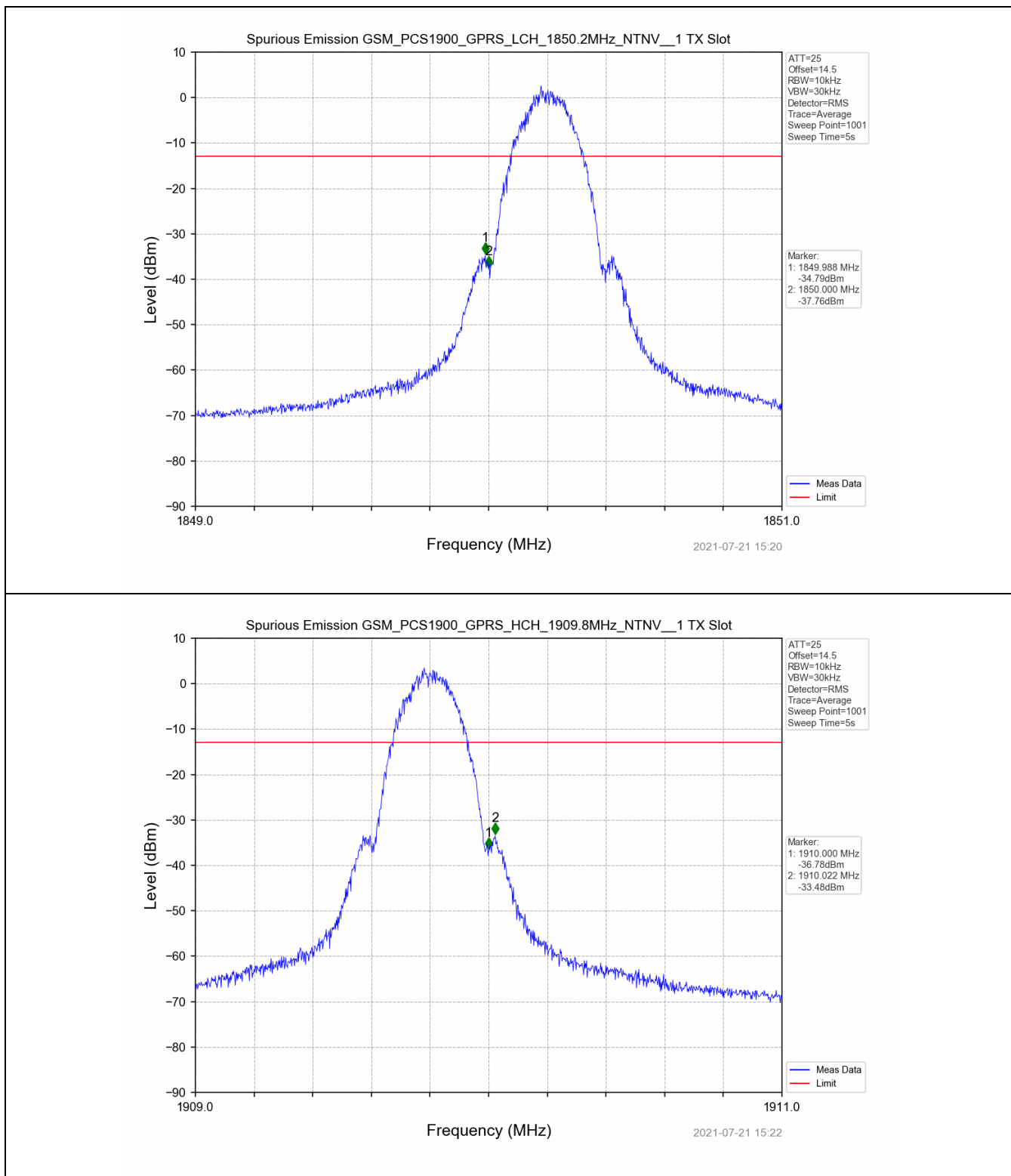
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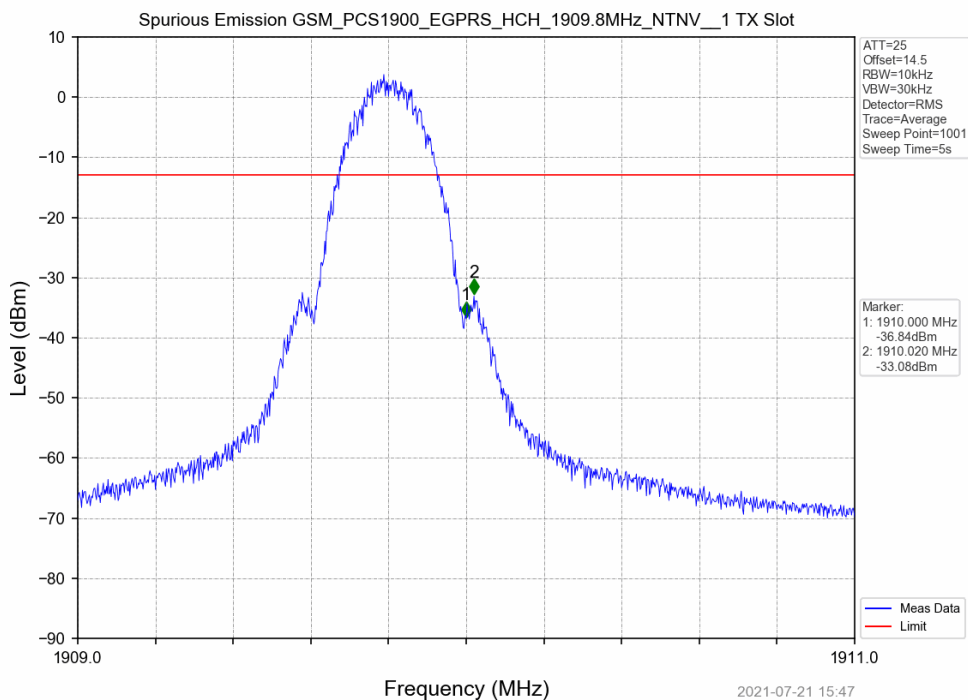
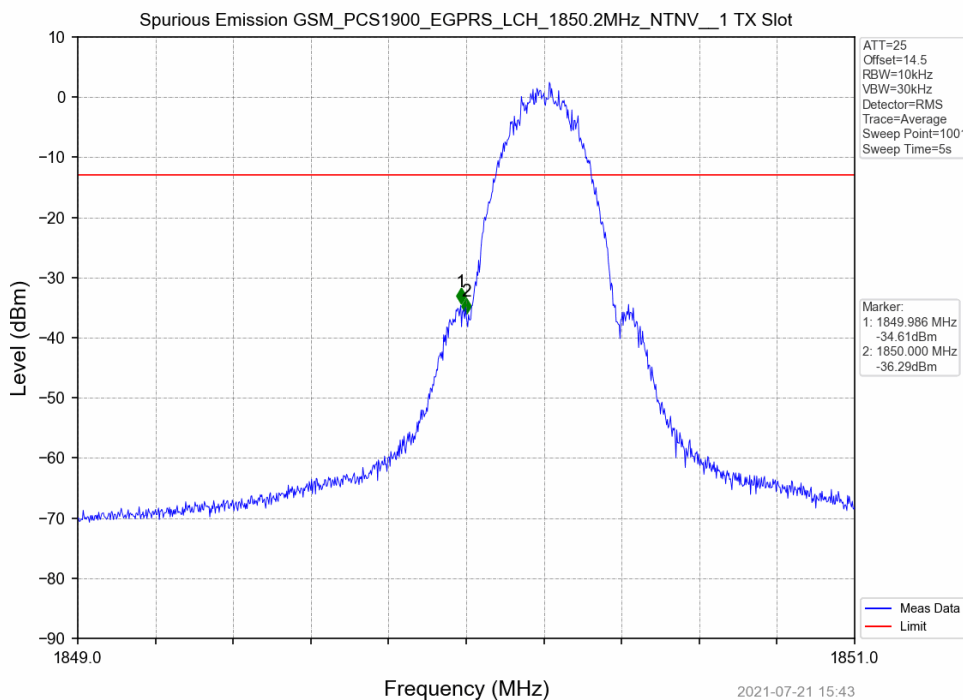


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## 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq -13\text{dBm}$

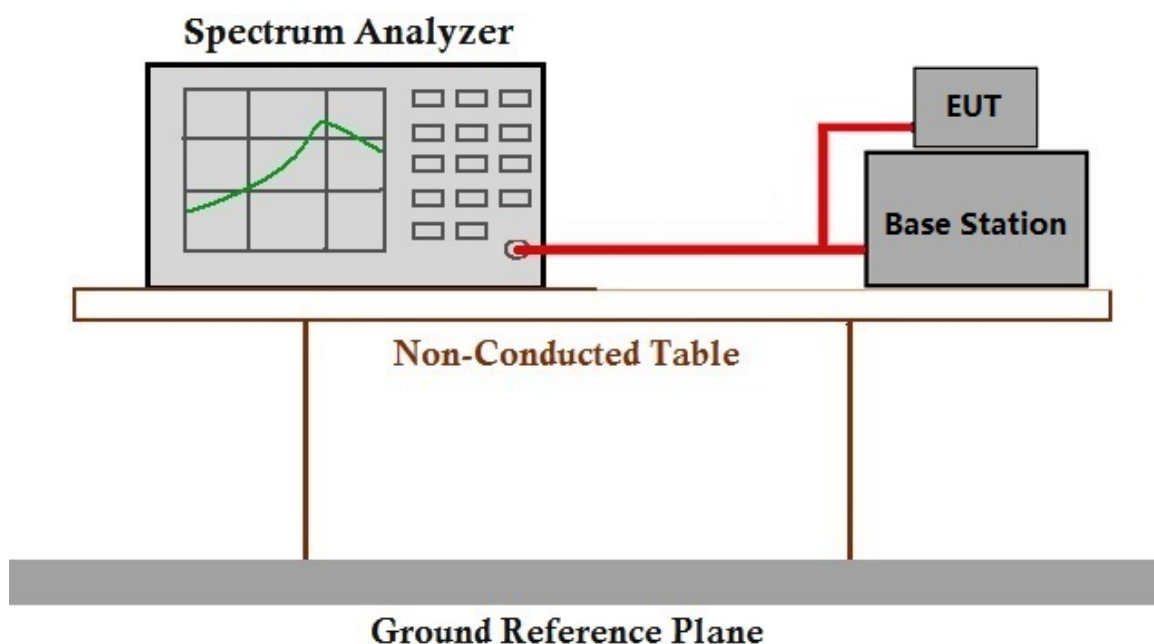
### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar

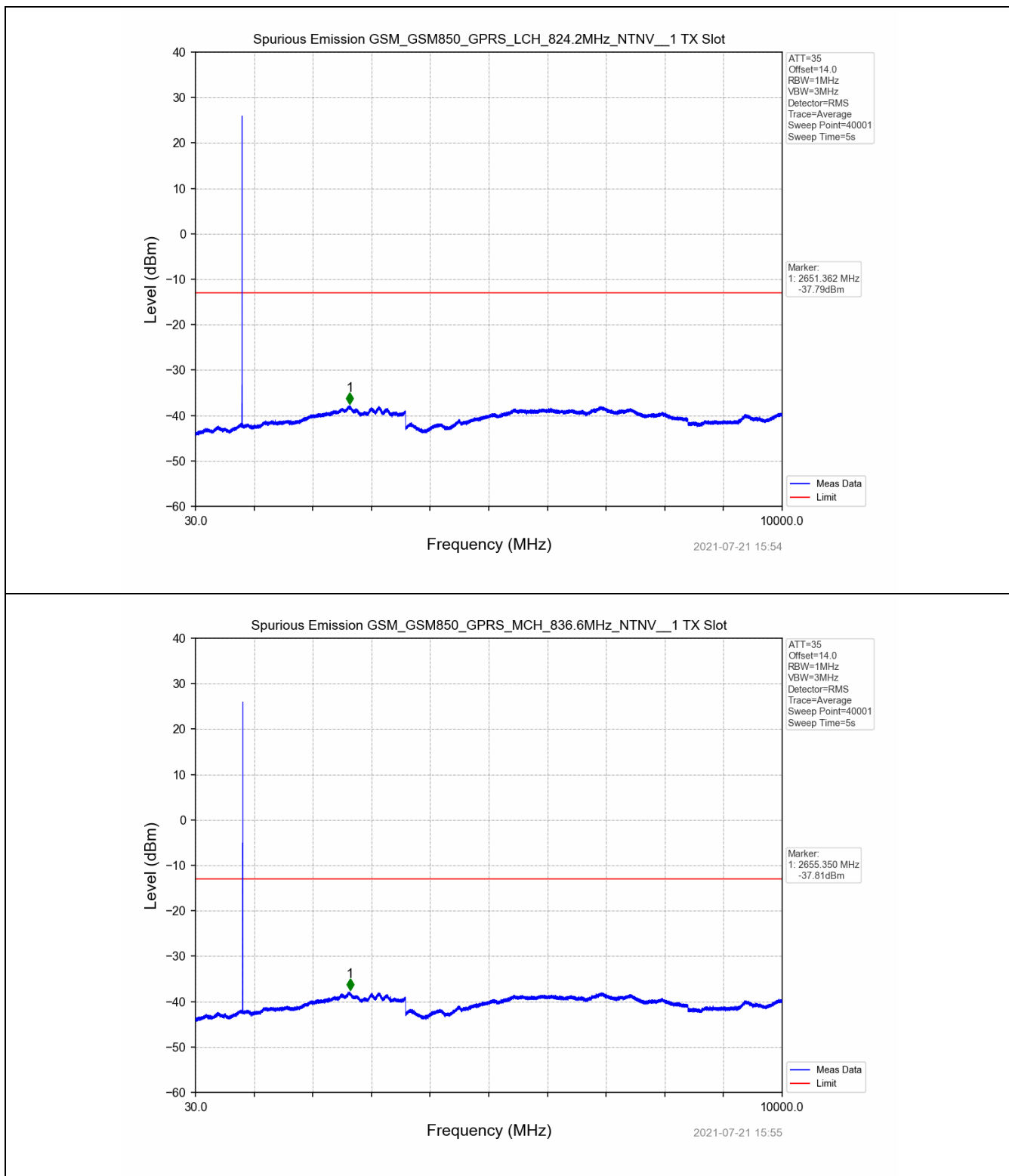
Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.5.2 Test Setup Diagram



### 6.5.3 Measurement Data





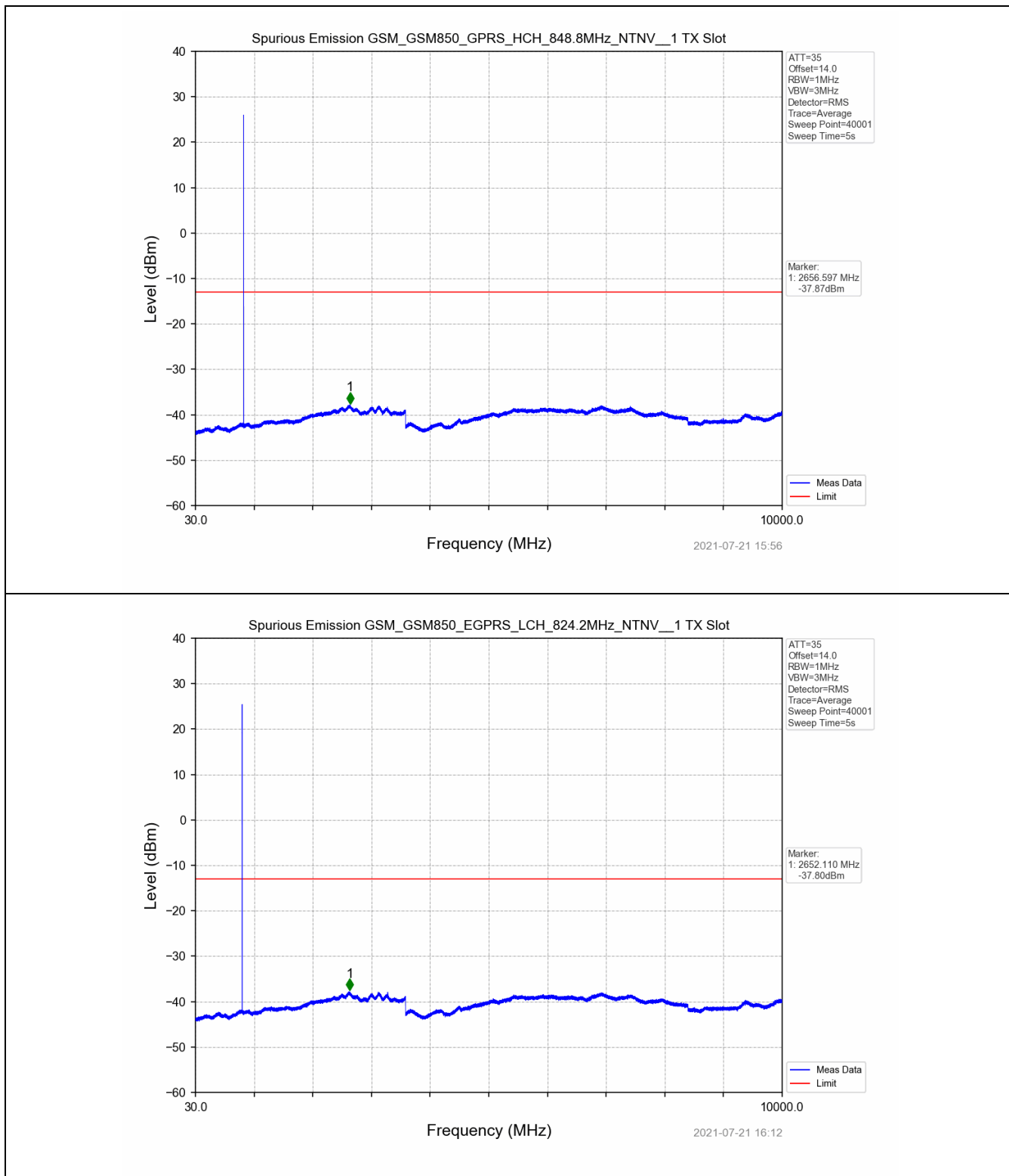
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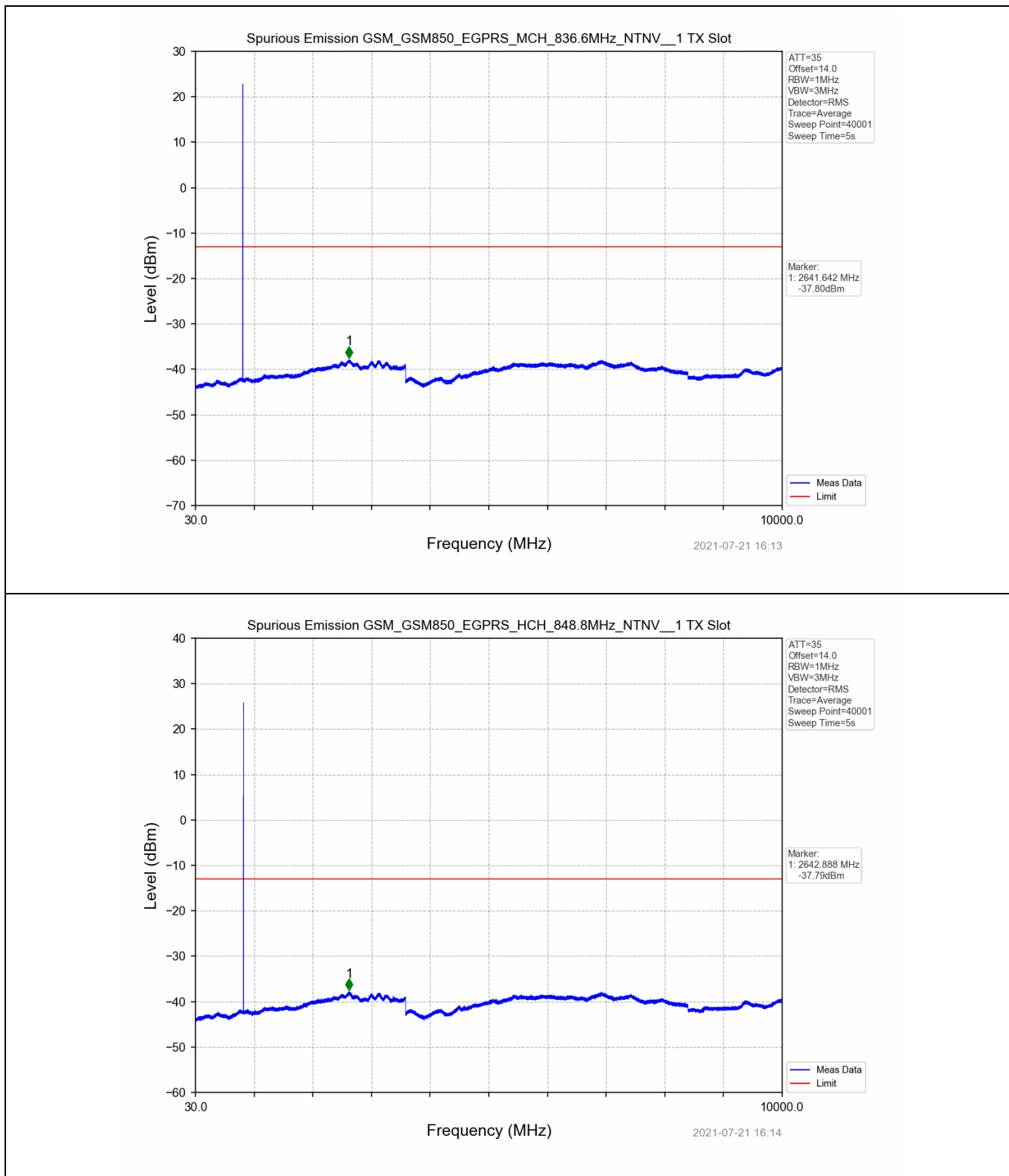


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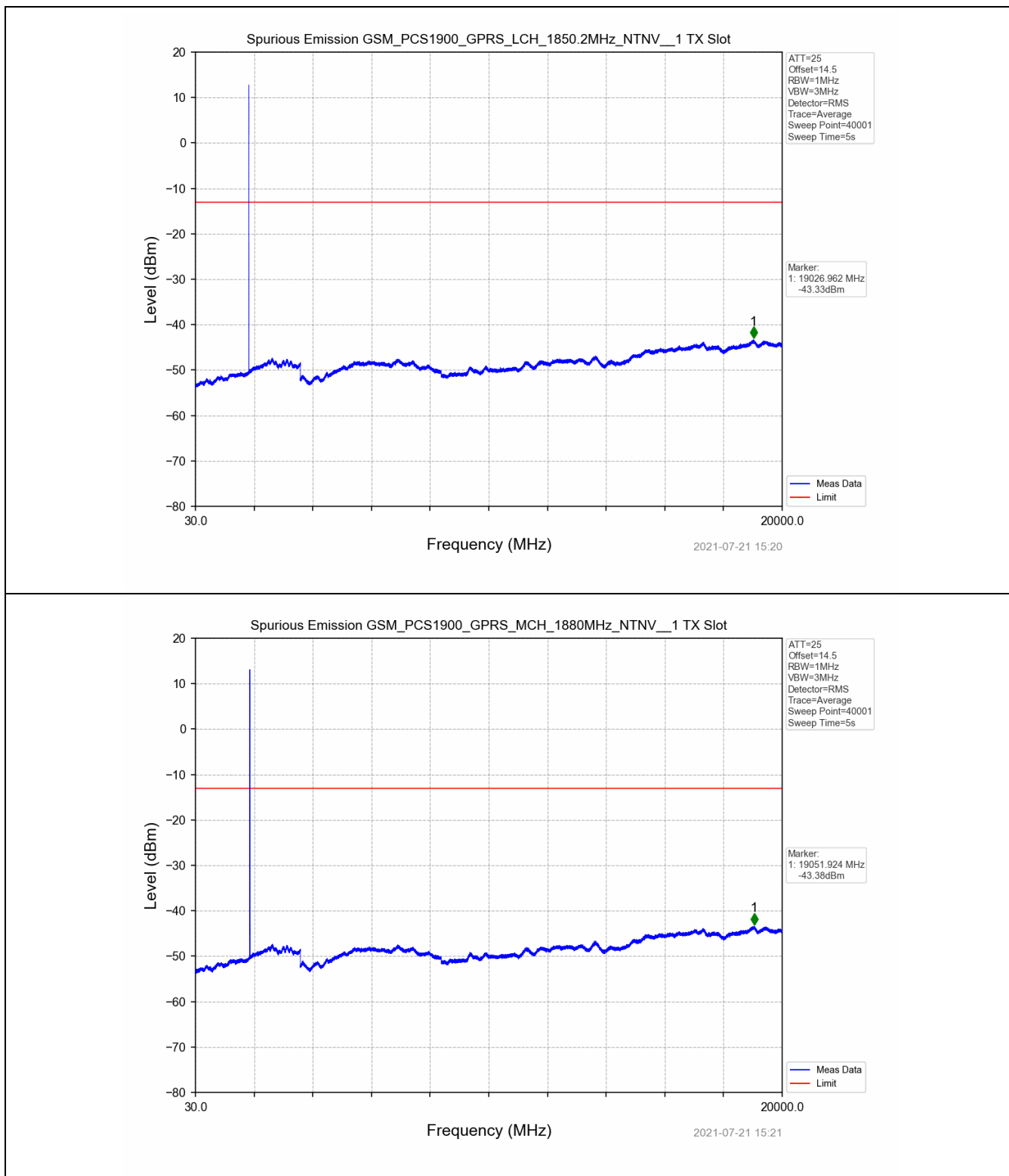


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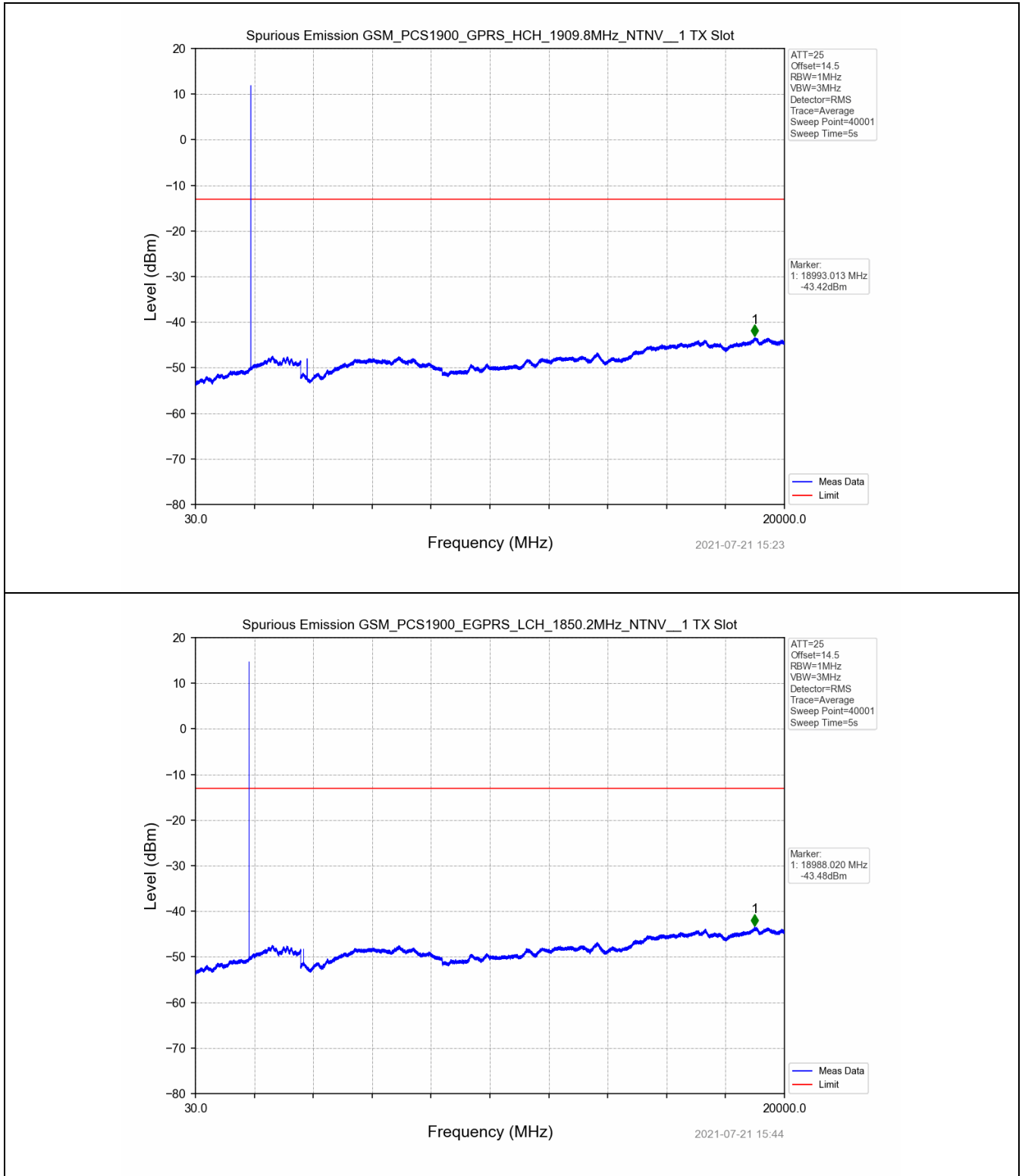
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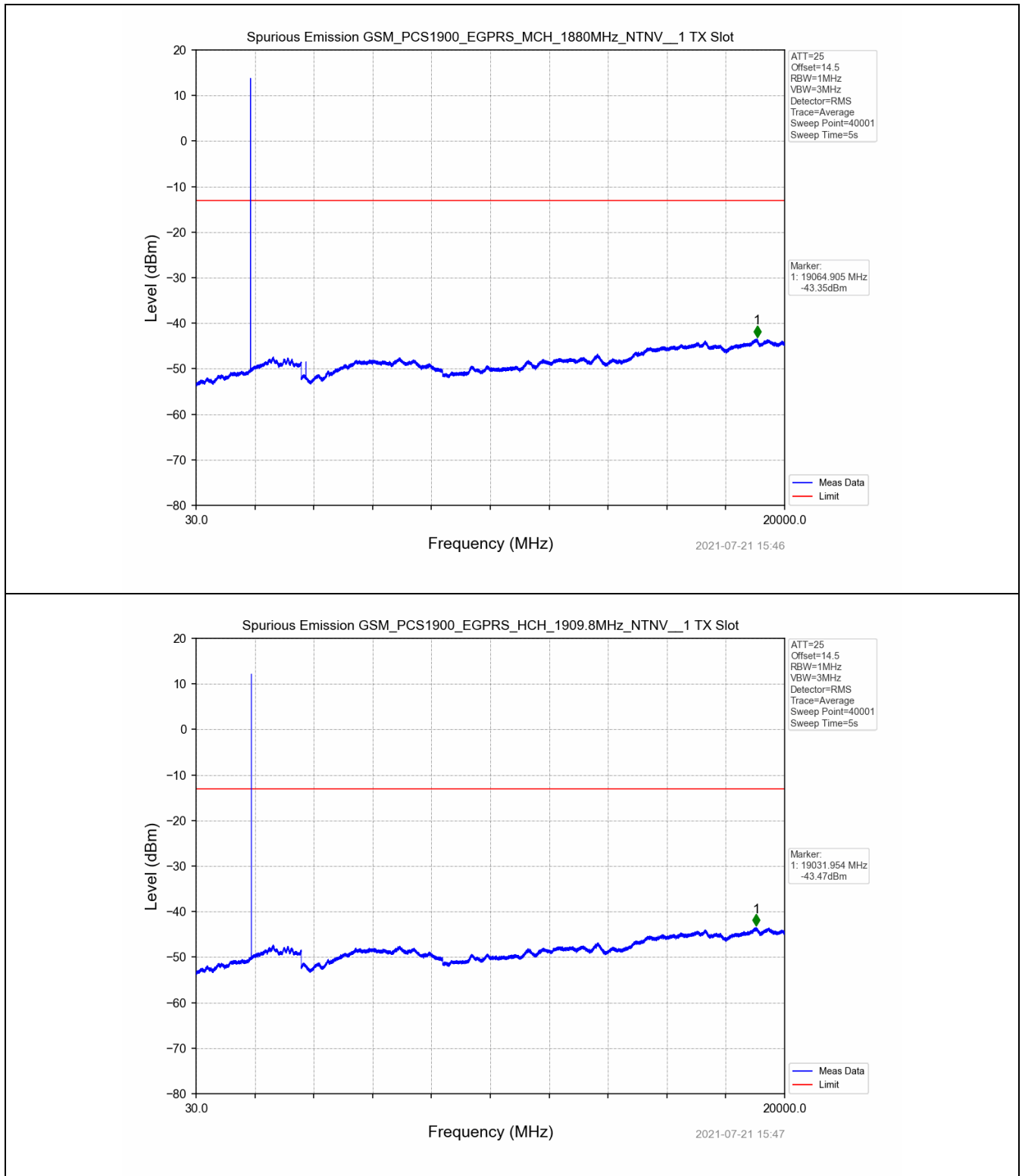
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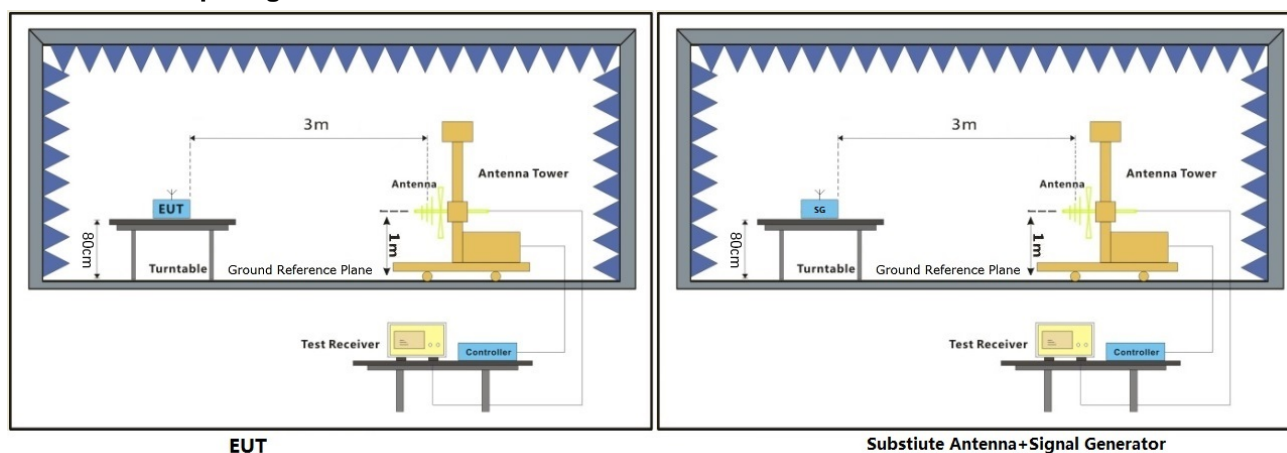
## 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238,  
Test Method: ANSI C63.26, KDB 971168 D01 v03  
Limit:  $\leq -13\text{dBm}$

### 6.6.1 E.U.T. Operation

Operating Environment:  
Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.6.2 Test Setup Diagram



### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



| GPRS850-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 |
| 1652.8              | -54.18     | -13         | -41.18          | -59.66           | 0.52            | 6                  | Horizontal         | Pass   |
| 2479.2              | -49.7      | -13         | -36.7           | -54.97           | 0.53            | 5.8                | Horizontal         | Pass   |
| 3305.6              | -46.2      | -13         | -33.2           | -51.75           | 0.65            | 6.2                | Horizontal         | Pass   |
| 1652.8              | -54.21     | -13         | -41.21          | -59.69           | 0.52            | 6                  | Vertical           | Pass   |
| 2479.2              | -49.02     | -13         | -36.02          | -54.29           | 0.53            | 5.8                | Vertical           | Pass   |
| 3305.6              | -45.37     | -13         | -32.37          | -50.92           | 0.65            | 6.2                | Vertical           | Pass   |

| GPRS850-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 |
| 1672.8                 | -52.43     | -13         | -39.43          | -57.91           | 0.52            | 6                  | Horizontal         | Pass   |
| 2509.2                 | -49.39     | -13         | -36.39          | -54.1            | 0.59            | 5.3                | Horizontal         | Pass   |
| 3345.6                 | -46.4      | -13         | -33.4           | -51.95           | 0.65            | 6.2                | Horizontal         | Pass   |
| 1672.8                 | -53.22     | -13         | -40.22          | -58.7            | 0.52            | 6                  | Vertical           | Pass   |
| 2509.2                 | -49.29     | -13         | -36.29          | -54              | 0.59            | 5.3                | Vertical           | Pass   |
| 3345.6                 | -43.37     | -13         | -30.37          | -48.92           | 0.65            | 6.2                | Vertical           | Pass   |

| GPRS850-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 |
| 1693.2               | -50.52     | -13         | -37.52          | -56              | 0.52            | 6                  | Horizontal         | Pass   |
| 2539.8               | -49.19     | -13         | -36.19          | -53.9            | 0.59            | 5.3                | Horizontal         | Pass   |
| 3386.4               | -45.39     | -13         | -32.39          | -50.94           | 0.65            | 6.2                | Horizontal         | Pass   |
| 1693.2               | -52.28     | -13         | -39.28          | -57.76           | 0.52            | 6                  | Vertical           | Pass   |
| 2539.8               | -47.63     | -13         | -34.63          | -52.34           | 0.59            | 5.3                | Vertical           | Pass   |
| 3386.4               | -44.43     | -13         | -31.43          | -49.98           | 0.65            | 6.2                | Vertical           | Pass   |



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| GPRS1900-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 |
| 3704.8               | -46.03     | -13         | -33.03          | -52.92           | 0.71            | 7.6                | Horizontal         | Pass   |
| 5557.2               | -41.07     | -13         | -28.07          | -50.52           | 0.85            | 10.3               | Horizontal         | Pass   |
| 7409.6               | -41.29     | -13         | -28.29          | -53.19           | 1               | 12.9               | Horizontal         | Pass   |
| 3704.8               | -45.84     | -13         | -32.84          | -52.73           | 0.71            | 7.6                | Vertical           | Pass   |
| 5557.2               | -41.45     | -13         | -28.45          | -50.9            | 0.85            | 10.3               | Vertical           | Pass   |
| 7409.6               | -37.77     | -13         | -24.77          | -49.67           | 1               | 12.9               | Vertical           | Pass   |

| GPRS1900-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 |
| 3760                    | -43.73     | -13         | -30.73          | -50.62           | 0.71            | 7.6                | Horizontal         | Pass   |
| 5640                    | -44.21     | -13         | -31.21          | -53.66           | 0.85            | 10.3               | Horizontal         | Pass   |
| 7520                    | -39.83     | -13         | -26.83          | -52.04           | 0.99            | 13.2               | Horizontal         | Pass   |
| 3760                    | -43.68     | -13         | -30.68          | -50.57           | 0.71            | 7.6                | Vertical           | Pass   |
| 5640                    | -41.01     | -13         | -28.01          | -50.46           | 0.85            | 10.3               | Vertical           | Pass   |
| 7520                    | -39.17     | -13         | -26.17          | -51.38           | 0.99            | 13.2               | Vertical           | Pass   |

| GPRS1900-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 |
| 3815.2                | -45.06     | -13         | -32.06          | -51.95           | 0.71            | 7.6                | Horizontal         | Pass   |
| 5722.8                | -40.02     | -13         | -27.02          | -49.47           | 0.85            | 10.3               | Horizontal         | Pass   |
| 7630.4                | -37.71     | -13         | -24.71          | -49.92           | 0.99            | 13.2               | Horizontal         | Pass   |
| 3815.2                | -46.58     | -13         | -33.58          | -53.47           | 0.71            | 7.6                | Vertical           | Pass   |
| 5722.8                | -44.82     | -13         | -31.82          | -54.27           | 0.85            | 10.3               | Vertical           | Pass   |
| 7630.4                | -43.87     | -13         | -30.87          | -56.08           | 0.99            | 13.2               | Vertical           | Pass   |

Note: EIRP= S.G. Power- Cable loss+ Antenna Gain

For GSM, all modes have been tested and we found GPRS Test mode has the worst test result. Only record the worst test result.



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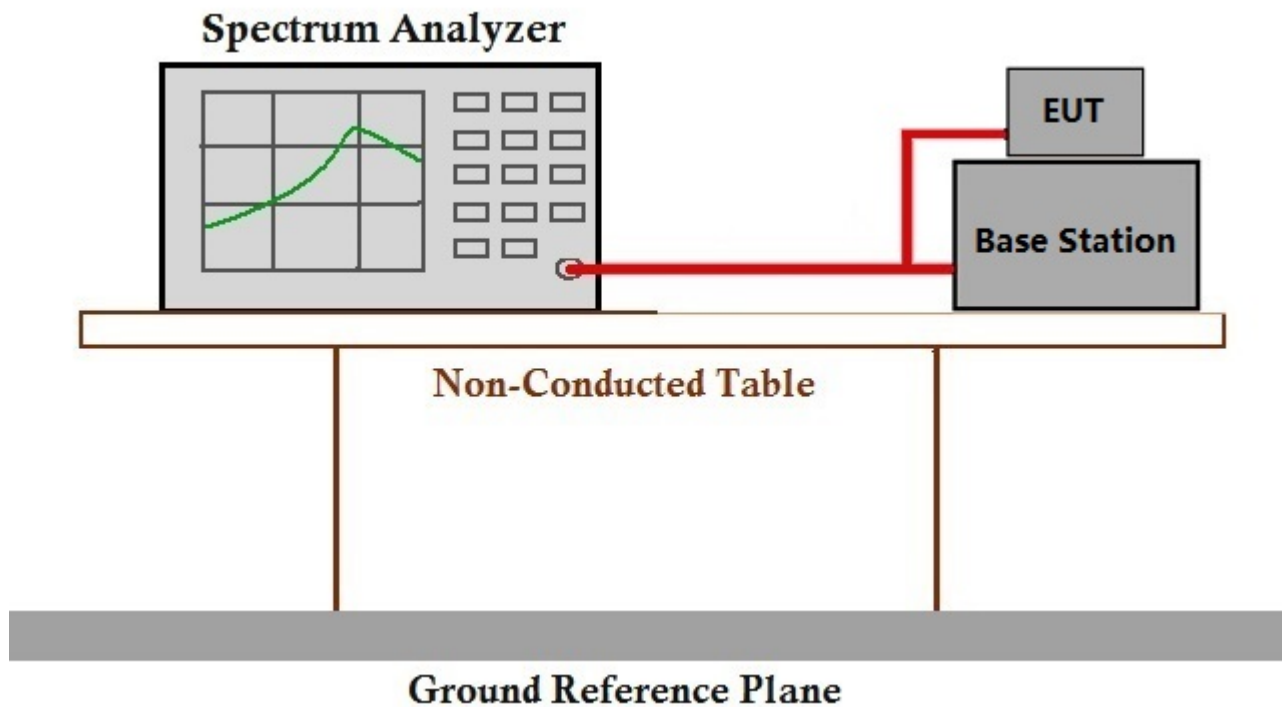
## 6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit:  $\leq \pm 2.5\text{ppm}$ .

### 6.7.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.7.2 Test Setup Diagram



### 6.7.3 Measurement Data



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| Test Band: GSM850 (Frequency Error VS. Voltage) |            |            |                  |          |          |                       |         |         |             |         |
|---|------------|------------|------------------|----------|----------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                       | Test Temp. | Test Volt. | Freq. Error (Hz) |          |          | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|   |            |            | LCH              | MCH      | HCH      | LCH                   | MCH     | HCH     |             |         |
| EGPRS   | NT         | LV         | -10.0086         | -13.7538 | -8.9109  | -0.0121               | -0.0164 | -0.0105 | 2.50        | PASS    |
|   |            | NV         | -11.4292         | -9.3629  | -13.2372 | -0.0139               | -0.0112 | -0.0156 | 2.50        | PASS    |
|   |            | HV         | -14.0121         | -10.0409 | -12.5592 | -0.0170               | -0.0120 | -0.0148 | 2.50        | PASS    |
| GPRS  | NT         | LV         | -13.3341         | -1.4529  | -13.3018 | -0.0162               | -0.0017 | -0.0157 | 2.50        | PASS    |
|   |            | NV         | -10.9126         | -6.2635  | -6.5217  | -0.0132               | -0.0075 | -0.0077 | 2.50        | PASS    |
|   |            | HV         | -9.8795          | -2.7766  | -10.4283 | -0.0120               | -0.0033 | -0.0123 | 2.50        | PASS    |

| Test Band: GSM850 (Frequency Error VS. Temperature) |            |            |                  |          |          |                       |         |         |             |         |
|---|------------|------------|------------------|----------|----------|-----------------------|---------|---------|-------------|---------|
| Test Mode   | Test Volt. | Test Temp. | Freq. Error (Hz) |          |          | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|   |            |            | LCH              | MCH      | HCH      | LCH                   | MCH     | HCH     |             |         |
| EGPRS   | NV         | -30.00     | -11.2032         | -11.3969 | -12.6560 | -0.0136               | -0.0136 | -0.0149 | 2.50        | PASS    |
|   |            | -20.00     | -13.5278         | -11.6229 | -15.2066 | -0.0164               | -0.0139 | -0.0179 | 2.50        | PASS    |
|   |            | -10.00     | -9.3629          | -12.9143 | -14.3672 | -0.0114               | -0.0154 | -0.0169 | 2.50        | PASS    |
|   |            | 0.00       | -10.8803         | -12.3978 | -12.4946 | -0.0132               | -0.0148 | -0.0147 | 2.50        | PASS    |
|   |            | 10.00      | -8.5558          | -12.0103 | -10.7189 | -0.0104               | -0.0144 | -0.0126 | 2.50        | PASS    |
|   |            | 20.00      | -9.9118          | -14.9161 | -11.0740 | -0.0120               | -0.0178 | -0.0130 | 2.50        | PASS    |
|   |            | 30.00      | -9.2015          | -9.6535  | -11.0740 | -0.0112               | -0.0115 | -0.0130 | 2.50        | PASS    |
|   |            | 40.00      | -16.1106         | -11.3969 | -12.3655 | -0.0195               | -0.0136 | -0.0146 | 2.50        | PASS    |
|   |            | 50.00      | -15.2712         | -10.2669 | -12.2363 | -0.0185               | -0.0123 | -0.0144 | 2.50        | PASS    |
| GPRS  | NV         | -30.00     | -10.2023         | -10.6866 | -12.9466 | -0.0124               | -0.0128 | -0.0153 | 2.50        | PASS    |
|   |            | -20.00     | -14.6578         | -12.0426 | -10.8803 | -0.0178               | -0.0144 | -0.0128 | 2.50        | PASS    |
|   |            | -10.00     | -12.1718         | -12.2363 | -8.7495  | -0.0148               | -0.0146 | -0.0103 | 2.50        | PASS    |
|   |            | 0.00       | -14.3349         | -13.0435 | -10.5898 | -0.0174               | -0.0156 | -0.0125 | 2.50        | PASS    |
|   |            | 10.00      | -6.9415          | -7.9423  | -10.5898 | -0.0084               | -0.0095 | -0.0125 | 2.50        | PASS    |
|   |            | 20.00      | -4.8752          | -10.0409 | -10.2346 | -0.0059               | -0.0120 | -0.0121 | 2.50        | PASS    |
|   |            | 30.00      | -12.0749         | -14.5609 | -7.6840  | -0.0147               | -0.0174 | -0.0091 | 2.50        | PASS    |
|   |            | 40.00      | -5.8760          | -8.5235  | -4.9397  | -0.0071               | -0.0102 | -0.0058 | 2.50        | PASS    |
|   |            | 50.00      | -7.0706          | -12.9143 | -12.3978 | -0.0086               | -0.0154 | -0.0146 | 2.50        | PASS    |



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| Test Band: PCS1900 (Frequency Error VS. Voltage) |            |            |                  |          |          |                       |         |         |             |         |
|--|------------|------------|------------------|----------|----------|-----------------------|---------|---------|-------------|---------|
| Test Mode  | Test Temp. | Test Volt. | Freq. Error (Hz) |          |          | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|  |            |            | LCH              | MCH      | HCH      | LCH                   | MCH     | HCH     |             |         |
| EGPRS  | NT         | LV         | -25.6350         | -26.4098 | -30.9298 | -0.0139               | -0.0140 | -0.0162 | 2.50        | PASS    |
|  |            | NV         | -15.6909         | -31.1881 | -24.4404 | -0.0085               | -0.0166 | -0.0128 | 2.50        | PASS    |
|  |            | HV         | -25.7641         | -31.6078 | -27.1524 | -0.0139               | -0.0168 | -0.0142 | 2.50        | PASS    |
| GPRS   | NT         | LV         | 1.4851           | -4.6814  | 3.5514   | 0.0008                | -0.0025 | 0.0019  | 2.50        | PASS    |
|  |            | NV         | 8.7495           | -4.6492  | 4.2617   | 0.0047                | -0.0025 | 0.0022  | 2.50        | PASS    |
|  |            | HV         | 3.8097           | -4.8752  | -18.1446 | 0.0021                | -0.0026 | -0.0095 | 2.50        | PASS    |

| Test Band: PCS1900 (Frequency Error VS. Temperature) |            |            |                  |          |          |                       |         |         |             |         |
|--|------------|------------|------------------|----------|----------|-----------------------|---------|---------|-------------|---------|
| Test Mode  | Test Volt. | Test Temp. | Freq. Error (Hz) |          |          | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|  |            |            | LCH              | MCH      | HCH      | LCH                   | MCH     | HCH     |             |         |
| EGPRS  | NV         | -30.00     | -29.6061         | -35.6436 | -24.8278 | -0.0160               | -0.0190 | -0.0130 | 2.50        | PASS    |
|  |            | -20.00     | -22.2127         | -27.6367 | -24.2467 | -0.0120               | -0.0147 | -0.0127 | 2.50        | PASS    |
|  |            | -10.00     | -20.2432         | -32.4796 | -27.8950 | -0.0109               | -0.0173 | -0.0146 | 2.50        | PASS    |
|  |            | 0.00       | -24.2790         | -34.5781 | -25.8610 | -0.0131               | -0.0184 | -0.0135 | 2.50        | PASS    |
|  |            | 10.00      | -26.1838         | -29.6061 | -36.1924 | -0.0142               | -0.0157 | -0.0190 | 2.50        | PASS    |
|  |            | 20.00      | -26.1838         | -30.8976 | -21.5024 | -0.0142               | -0.0164 | -0.0113 | 2.50        | PASS    |
|  |            | 30.00      | -25.2798         | -26.4744 | -31.0267 | -0.0137               | -0.0141 | -0.0162 | 2.50        | PASS    |
|  |            | 40.00      | -20.3724         | -23.7301 | -27.9273 | -0.0110               | -0.0126 | -0.0146 | 2.50        | PASS    |
|  |            | 50.00      | -14.3349         | -32.0276 | -29.9290 | -0.0077               | -0.0170 | -0.0157 | 2.50        | PASS    |
| GPRS   | NV         | -30.00     | 2.1632           | -2.2277  | -2.4860  | 0.0012                | -0.0012 | -0.0013 | 2.50        | PASS    |
|  |            | -20.00     | 1.9049           | -0.9686  | 0.7749   | 0.0010                | -0.0005 | 0.0004  | 2.50        | PASS    |
|  |            | -10.00     | 2.2600           | 3.5514   | -17.4344 | 0.0012                | 0.0019  | -0.0091 | 2.50        | PASS    |
|  |            | 0.00       | 1.1623           | -2.0663  | -0.4197  | 0.0006                | -0.0011 | -0.0002 | 2.50        | PASS    |
|  |            | 10.00      | 4.1649           | 1.3560   | -0.5489  | 0.0023                | 0.0007  | -0.0003 | 2.50        | PASS    |
|  |            | 20.00      | 3.2932           | 4.8752   | -21.5024 | 0.0018                | 0.0026  | -0.0113 | 2.50        | PASS    |
|  |            | 30.00      | 4.6492           | -2.3246  | -6.8123  | 0.0025                | -0.0012 | -0.0036 | 2.50        | PASS    |
|  |            | 40.00      | 3.8420           | 4.3263   | -0.0646  | 0.0021                | 0.0023  | 0.0000  | 2.50        | PASS    |
|  |            | 50.00      | 3.8420           | -3.7774  | -1.2269  | 0.0021                | -0.0020 | -0.0006 | 2.50        | PASS    |



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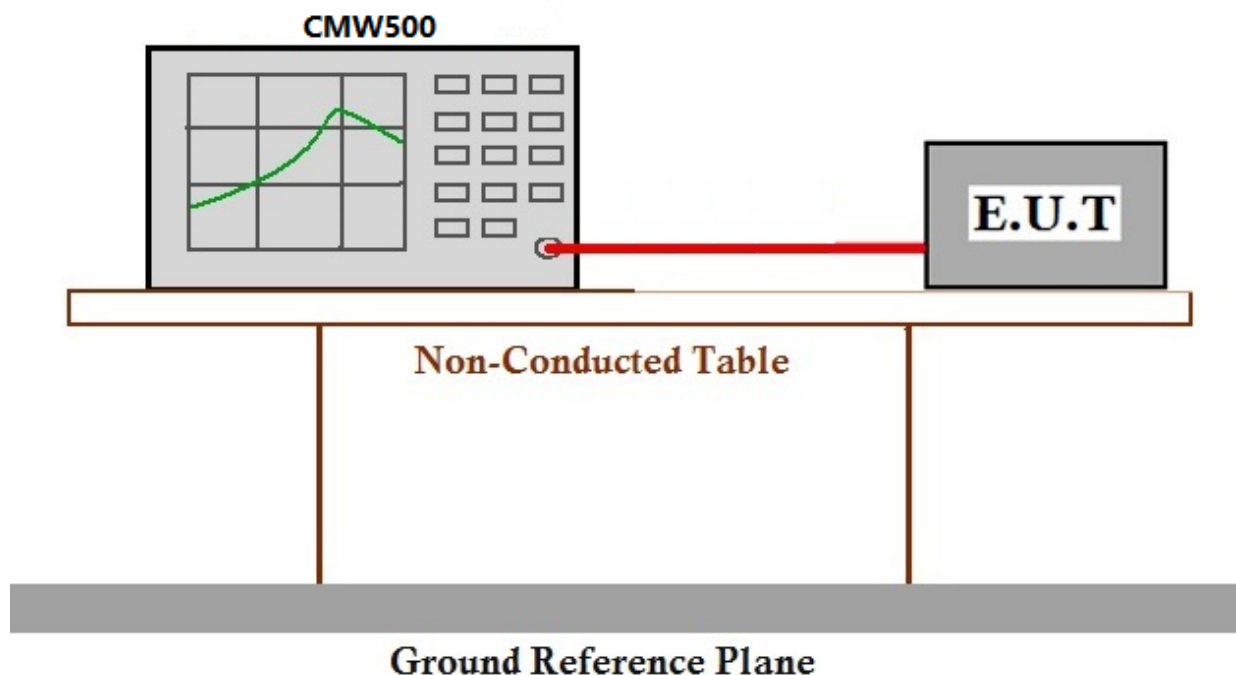
## 6.8 Modulation Characteristics

Test Requirement: §2.1047  
 Test Method: ANSI C63.26, KDB 971168 D01 v03  
 Limit: Digital modulation

### 6.8.1 E.U.T. Operation

Operating Environment:  
 Temperature: 22.5 °C Humidity: 65.0 % RH Atmospheric Pressure: 1015 mbar  
 Test mode: f:TX mode\_Keep the EUT in transmitting mode

### 6.8.2 Test Setup Diagram



### 6.8.3 Measurement Data



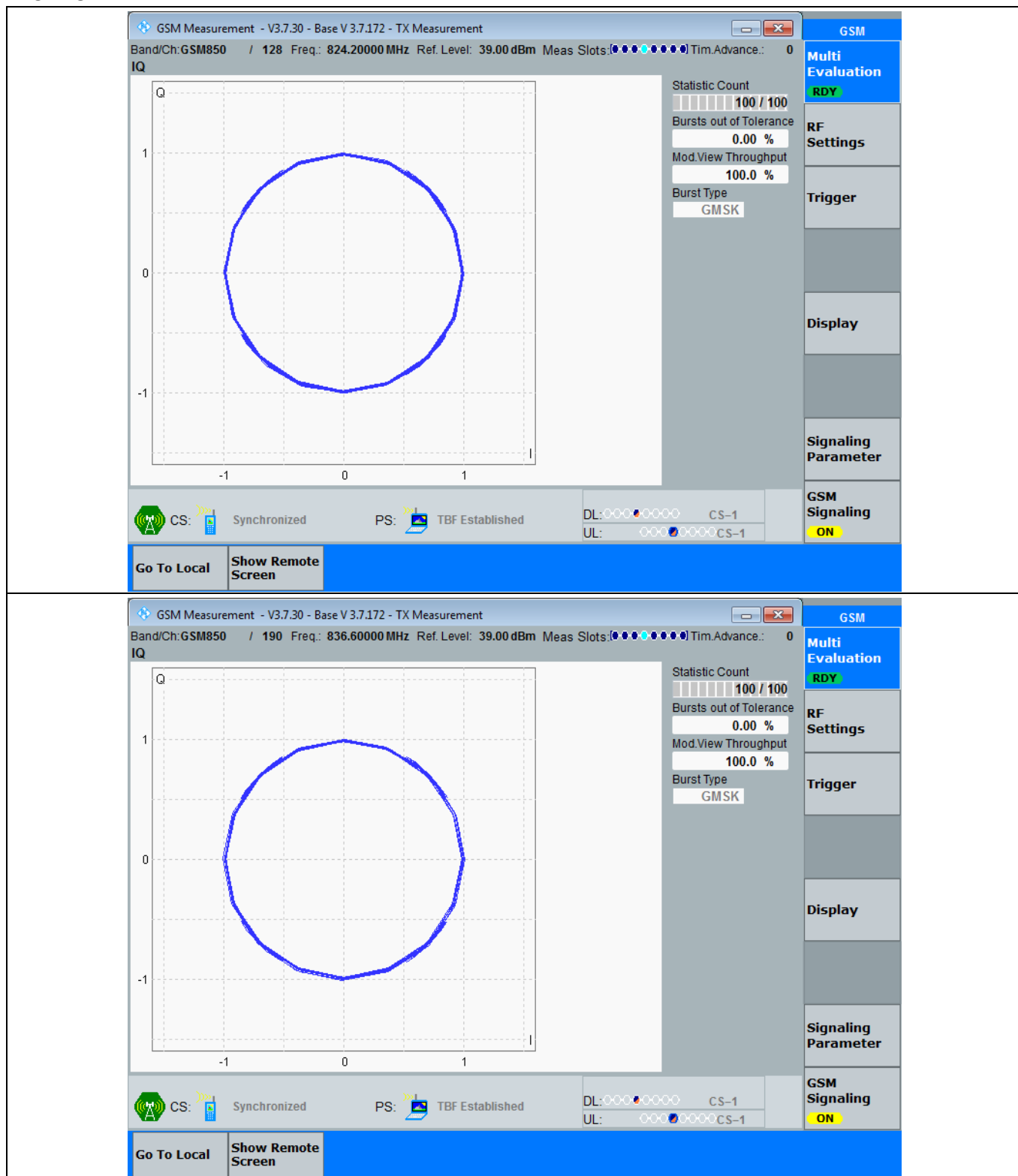
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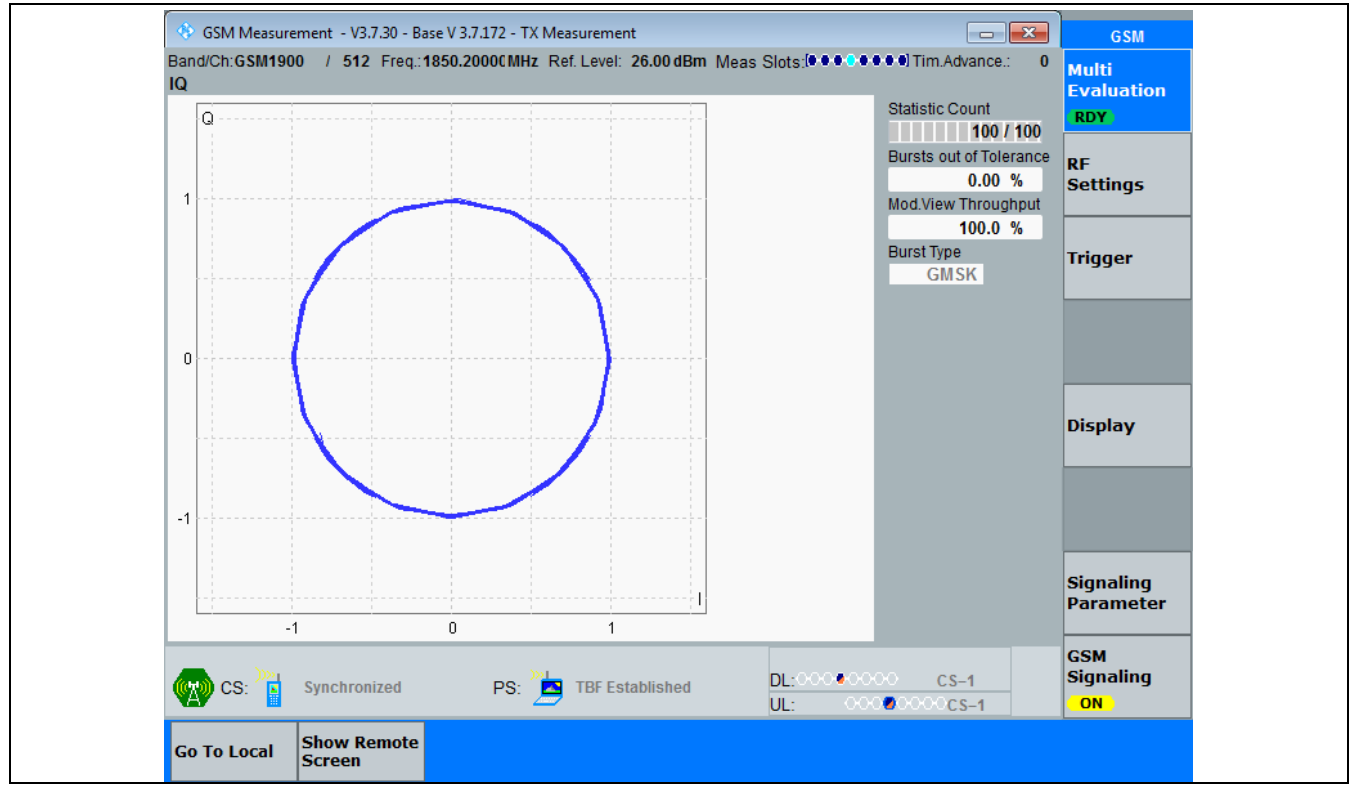
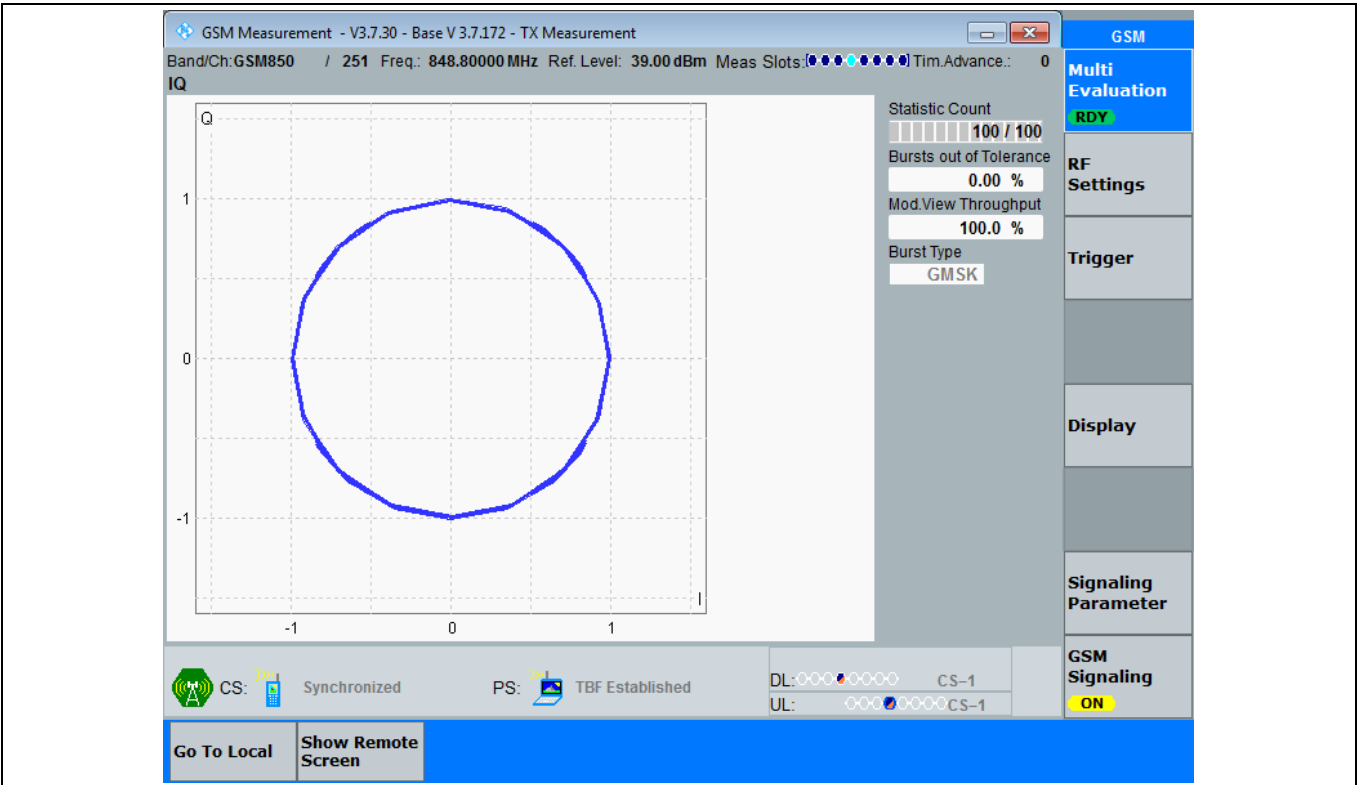




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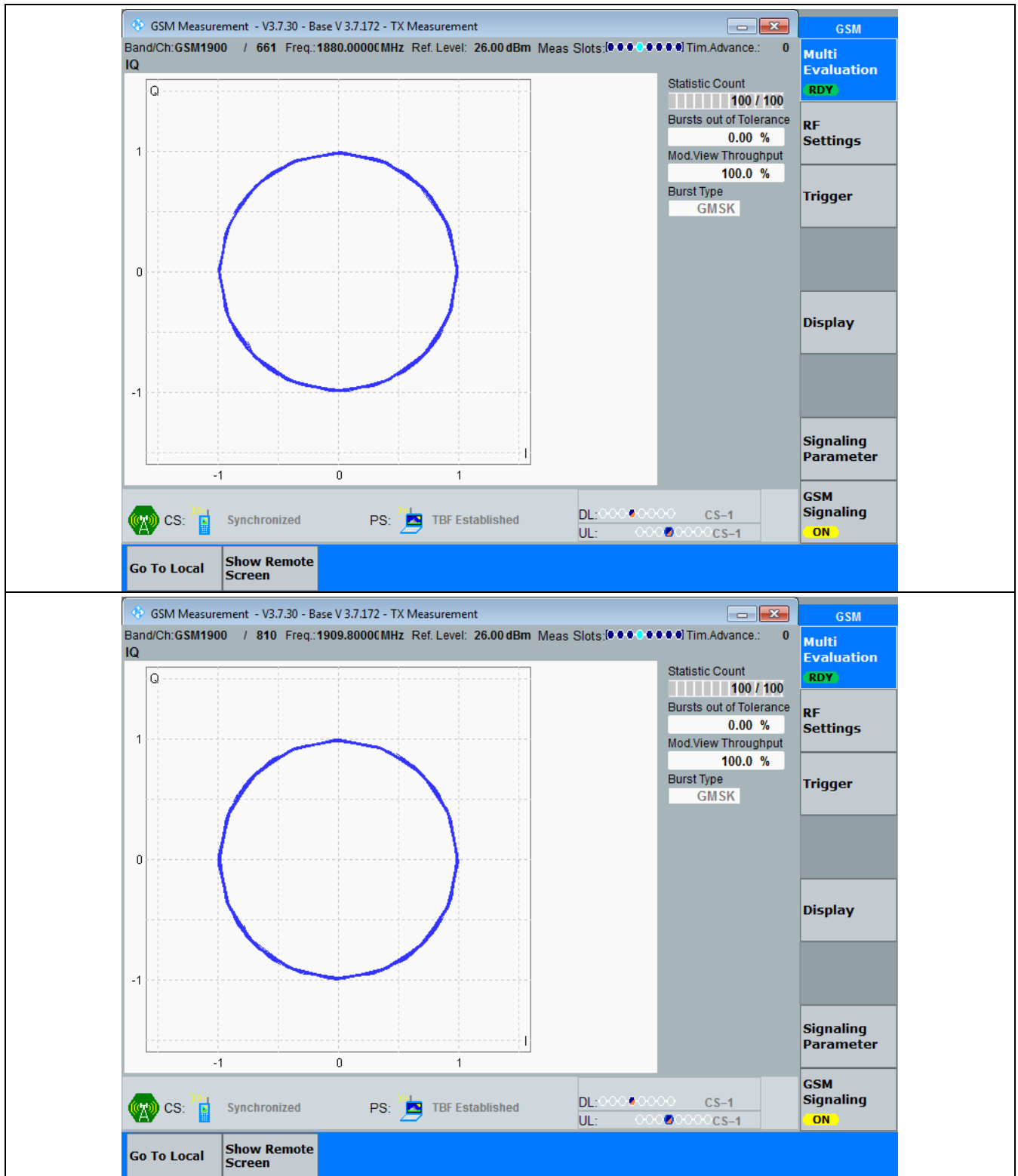


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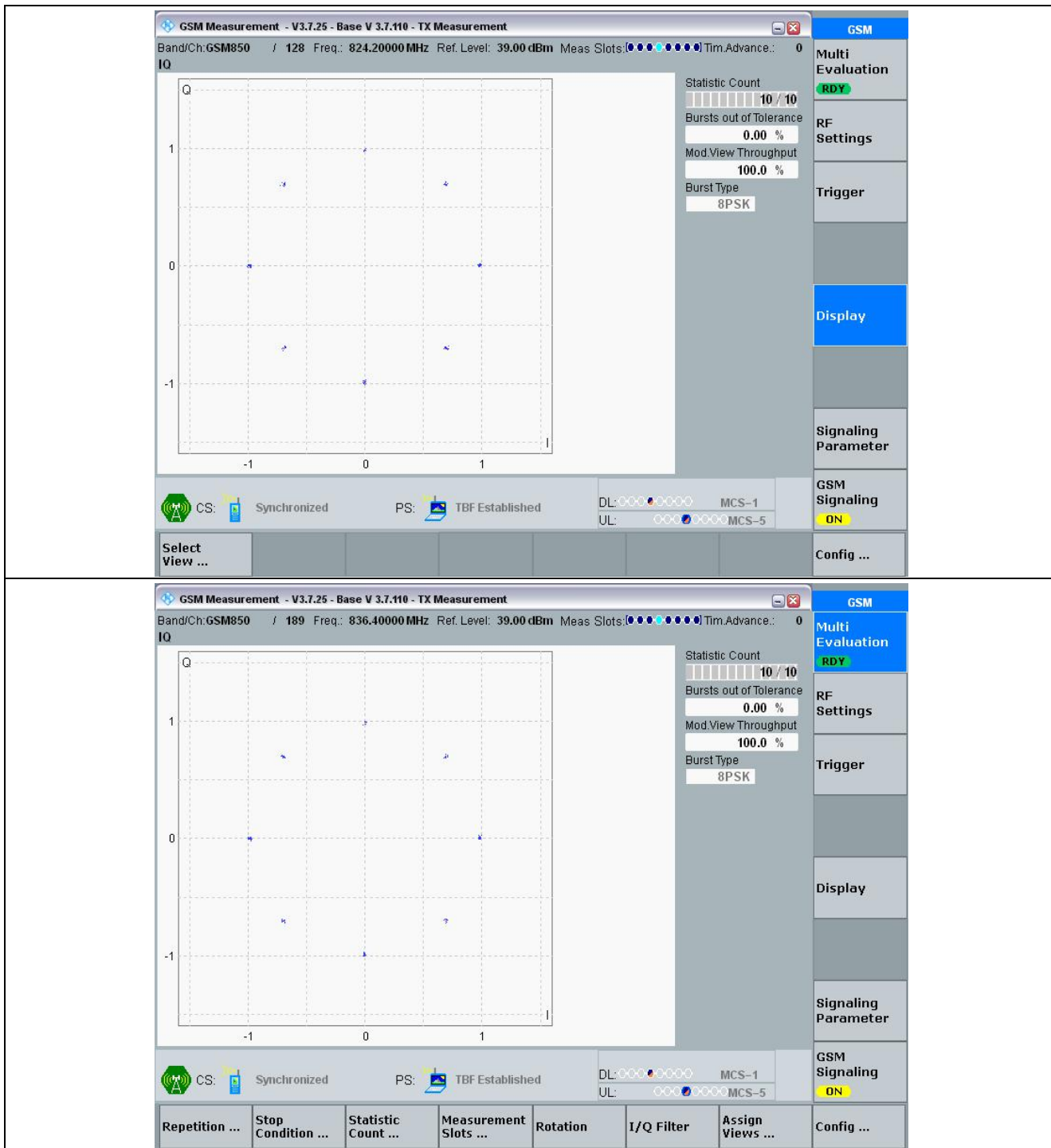
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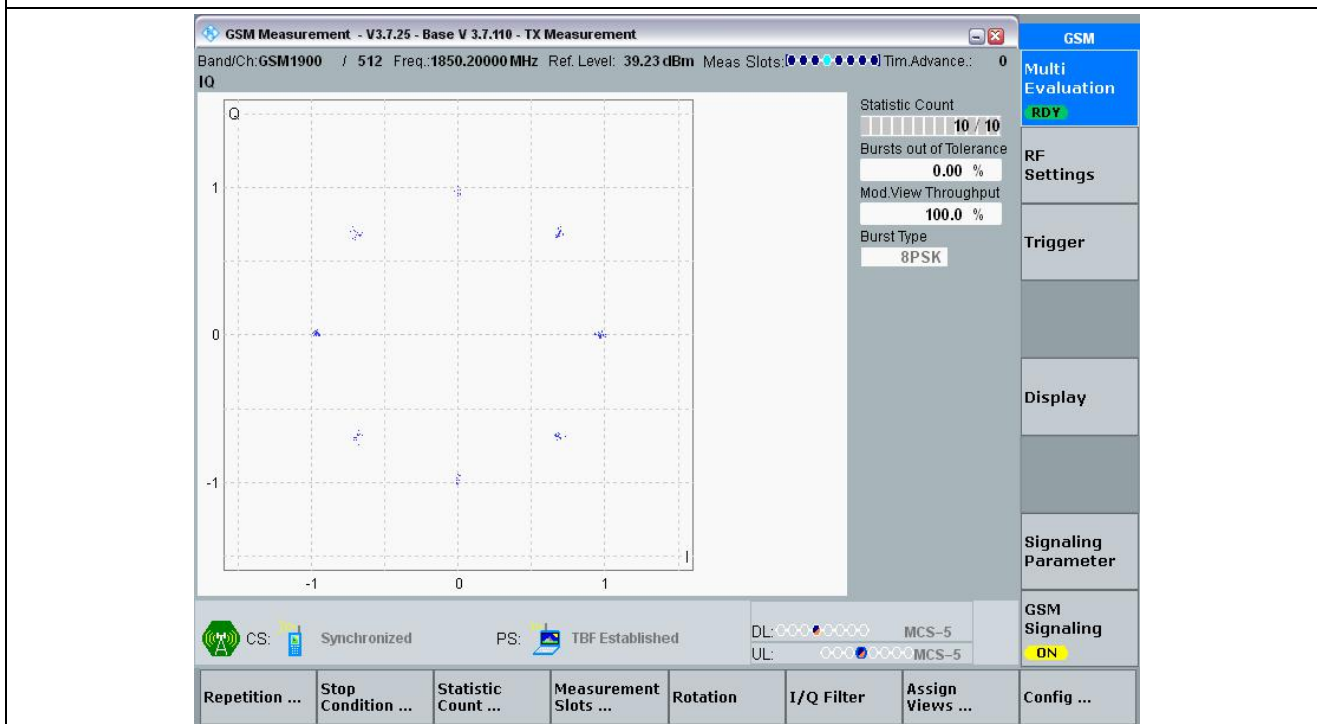
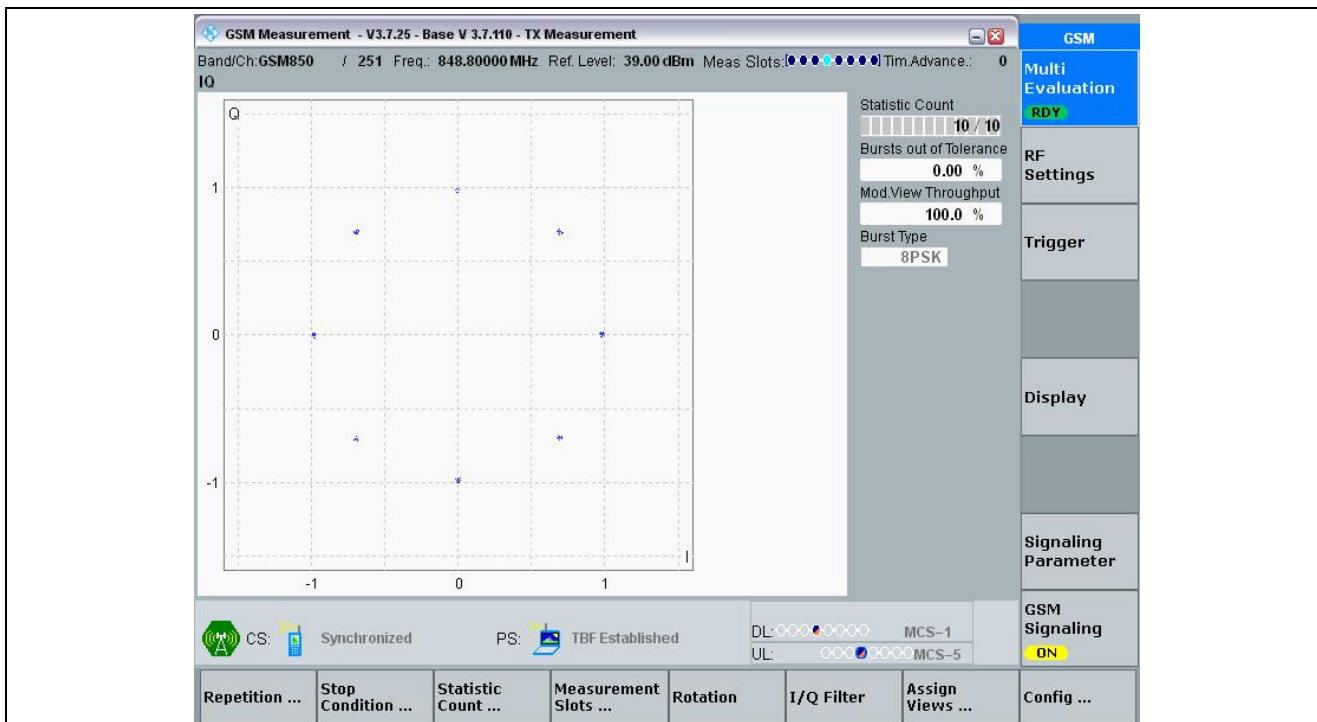
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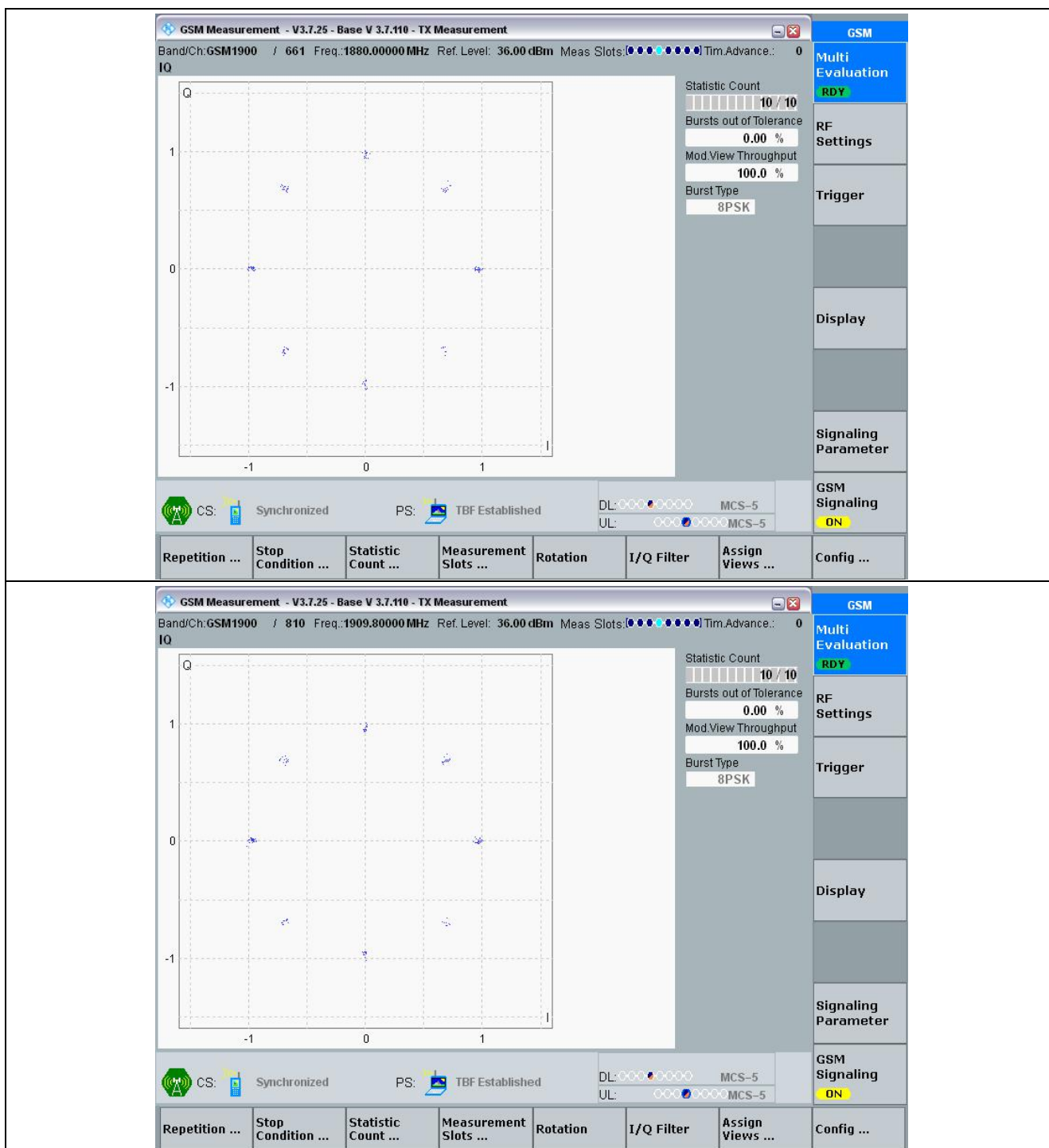




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## 7 Test Setup Photo

Refer to Appendix – Test Setup Photos for GZCR2108020821AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020821AT

- End of the Report -



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