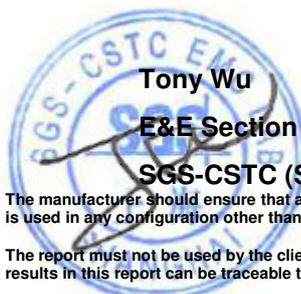


1 Cover Page

RF TEST REPORT

| | |
|---|--|
| Application No.: | SHEM1406001380RF |
| Applicant: | Medical Alarm Concepts Holdings Inc |
| FCC ID: | XWI-CS2992014 |
| Equipment Under Test (EUT): | |
| NOTE: The following sample(s) submitted was/were identified on behalf of the client as | |
| Product Name: | iHelp |
| Model No.(EUT): | CS299B-A |
| Added Model No. | CS299BA-A, CS299BA-B, CS299BA-C, CS299BA-D, CS299EA-A, CS299EA-B, CS299EA-C, CS299EA-D, CS299B-B, CS299B-C, CS299B-D, CS299E-A, CS299E-B, CS299E-C, CS299E-D |
| Standards: | 47 CFR Part 22 Subpart H: 2013 47 CFR Part 24 Subpart E: 2013 |
| Date of Receipt: | June 12, 2014 |
| Date of Test: | July 04, 2014 to July 09, 2014 |
| Date of Issue: | October 10, 2013 |
| Test Result: | Pass* |

* In the configuration tested, the EUT (Equipment under test) complied with the standards specified above.



Tony Wu
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

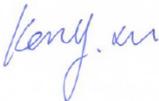
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

| Revision Record | | | | |
|-----------------|---------|------------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 00 | | October 15, 2014 | | Original |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|---|---|
| Authorized for issue by: | | | |
| Engineer | | Eddy Zong _____ Print Name |  |
| Clerk | | Susie Liu _____ Print Name |  |
| Reviewer | | Keny Xu _____ Print Name |  |

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3 Test Summary

| Test Item | FCC Requirement | Test method | Result |
|-----------------------------|-------------------------------|-------------------------------|--------|
| Output Power | Part 22.913(a)/24.232(c) | TIA-603-C Clause 2.2.1/2.2.17 | PASS |
| Peak-to-Average Ratio | Part24.232(d) | KDB 971168 D01 | PASS |
| Occupied Bandwidth | Part 2.1049(h)(i) | Part 22.917(b)/24.238(b) | PASS |
| Band Edge | Part 22.917(b)/24.238(b) | TIA-603-C Clause 2.2.12 | PASS |
| Conducted Spurious Emission | Part 2.1057/22.917/ 24.238(b) | TIA-603-C Clause 2.2.13 | PASS |
| Radiation Emission | Part 2.1051/22.917/24.238 | TIA-603-C Clause 2.2.12 | PASS |
| Frequency Stability | Part 2.1055/22.355/24.235 | TIA-603-C Clause 2.2.2 | PASS |

Note: There are 16 models mentioned in the report. The electrical circuit design, PCB layout, electrical components used and internal wiring are identical, only differences are software vision and types of the speakers. The details please refer to the document "Declaration Letter about Identity of Products"

CS299B-A is tested model which can send or receive a calling and SMS, it send the data to service with GPRS and can set by computer

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5 General Information

5.1 Client Information

Applicant: Medical Alarm Concepts Holdings Inc
 Address of Applicant: 200 B West Church Road King of Prussia, PA 19406
 Manufacturer: Xi'an iHelp Wearable Electronic Co., Ltd
 Address of Manufacturer: #2 Innovate business apartment, Pioneering Development Park #69
 Jinye Road, Xi'an Hi-Tech Deveopment Zone Xin'an Shanxi Province
 China
 Factory: Xi'an iHelp Wearable Electronic Co., Ltd
 Address of Factory: #2 Innovate business apartment, Pioneering Development Park #69
 Jinye Road, Xi'an Hi-Tech Deveopment Zone Xin'an Shanxi Province
 China

5.2 General Description of EUT

Product Description: Mobile Phone
 Software Version: V 3.0
 Hardware Version: V 2.03
 IMEI: 8660340200000024
 Battery: Battery Type: Li-on Rechargeable Battery
 Model No.: BL-5C
 Technical Spec.: DC 3.7V 1100mAh
 Remark: Supply the EUT with a fully charged battery during the testing.
 Adapter: Model No.: PL050060
 Rated Input: AC 100V-250V 47-63Hz 400mA
 Rated Output: DC5.0-5.3V 0.6A
 Cable length: AC port: 2 wires
 DC port: 100 cm

5.3 Technical Specifications

Operation Frequency: GSM 850: Uplink: 824~849 MHz
 Downlink: 869~894 MHz
 DCS 1900: Uplink: 1850~1915 MHz
 Downlink: 1930~1990 MHz
 Modulation Technique: GMSK
 GPRS Class: 10
 Release Vision: R99
 Antenna Type: PCB Antenna
 Antenna Gain: 0 dBi

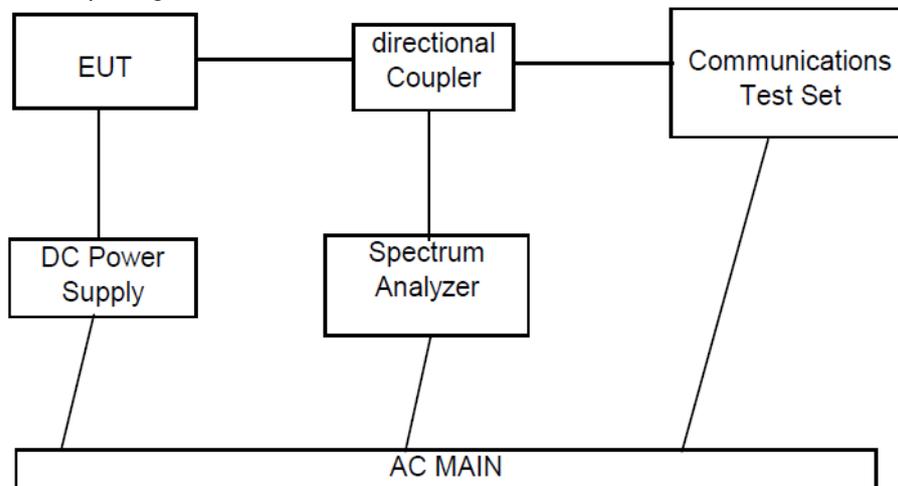
5.4 Test Mode

| Test Mode | Description of Test Mode |
|------------------------------|--|
| GSM speech mode | The EUT is connected with CMU200. The EUT is commanded to operate at maximum transmitting power. A GSM talking link has been established. |
| GPRS data communication mode | The EUT is connected with CMU200. The EUT is commanded to operate at maximum transmitting power. A data communication link has been established. |

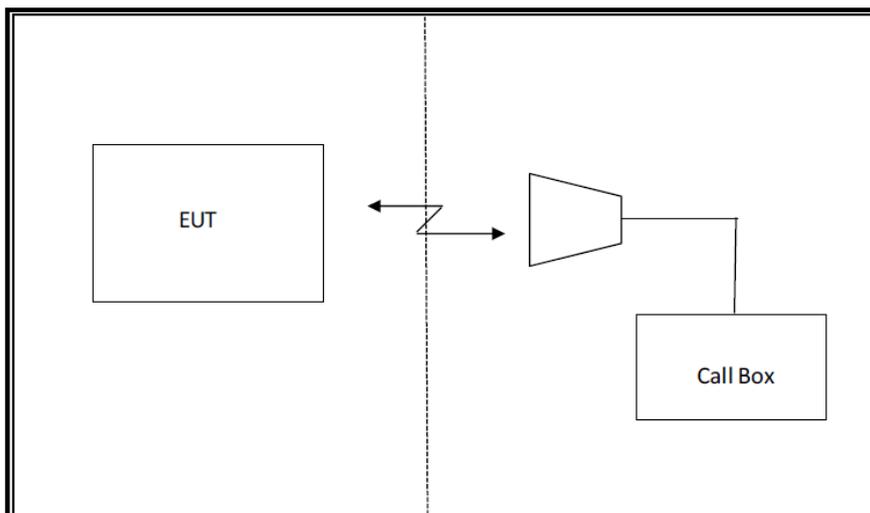
5.5 Description of Support Units

The EUT has been tested independently.

a. Setup Diagram for Conducted Tests:



b. Setup Diagram for Radiated Tests:



5.6 E.U.T Operation Environment

Temperature Range: 20-25°C
Humidity Range: 30-60% RH
Atmospheric Pressure Range: 100-102kPa

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.
Tel: +86 21 6191 5666
Fax: +86 21 6191 5678

5.8 Test Facility

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

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

5.9 Measurement Uncertainty

| No. | Parameter | Measurement Uncertainty |
|-----|-------------------------------|--|
| 1 | Radio Frequency | $< \pm 1 \times 10^{-5}$ |
| 2 | Total RF power, conducted | $< \pm 1.5$ dB |
| 3 | RF power density, conducted | $< \pm 3$ dB |
| 4 | Spurious emissions, conducted | $< \pm 3$ dB |
| 5 | All emissions, radiated | $< \pm 6$ dB (30MHz – 1GHz) $< \pm 6$ dB (above 1GHz) |
| 6 | Temperature | $< \pm 1^{\circ}\text{C}$ |
| 7 | Humidity | $< \pm 5$ % |
| 8 | DC and low frequency voltages | $< \pm 3$ % |

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6 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due date |
|------|---|-----------------------------|----------------------------|-------------|------------|---------------|
| 1 | EMI test receiver | Rohde & Schwarz | ESCS30 | 100086 | 2014-02-14 | 2015-02-13 |
| 2 | Line impedance stabilization network | SCHWARZBECK | NSLK8127 | 8127-490 | 2014-02-14 | 2015-02-13 |
| 3 | Line impedance stabilization network | ETS | 3816/2 | 00034161 | 2014-02-14 | 2015-02-13 |
| 4 | Spectrum Analyzer | Rohde & Schwarz | FSP-30 | 2705121009 | 2014-02-14 | 2015-02-13 |
| 5 | EMI test receiver | Rohde & Schwarz | ESU40 | 100109 | 2014-02-14 | 2015-02-13 |
| 6 | Active Loop Antenna (9kHz to 30MHz) | Rohde & Schwarz | FMZB 1519 | 1519-034 | 2014-03-19 | 2015-03-18 |
| 7 | Broadband UHF-VHF ANTENNA (25MHz to 2GHz) | SCHWARZBECK | VULB9168 | 9168-313 | 2014-02-14 | 2015-02-13 |
| 8 | Ultra broadband antenna (25MHz to 3GHz) | Rohde & Schwarz | HL562 | 100227 | 2013-10-09 | 2014-10-08 |
| 9 | Horn Antenna (1GHz to 18GHz) | Rohde & Schwarz | HF906 | 100284 | 2014-02-14 | 2015-02-13 |
| 10 | Horn Antenna (1GHz to 18GHz) | SCHWARZBECK | BBHA9120D | 9120D-679 | 2014-07-28 | 2015-07-27 |
| 11 | Horn Antenna (14GHz to 40GHz) | SCHWARZBECK | BBHA 9170 | BBHA9170373 | 2014-02-14 | 2015-02-13 |
| 12 | Pre-amplifier (9KHz – 2GHz) | LNA6900 | TESEQ | 71033 | 2014-02-14 | 2015-02-13 |
| 13 | Pre-amplifier (1GHz – 26.5GHz) | Rohde & Schwarz | SCU-F0118-G40-BZ4-CSS(F) | 10001 | 2014-02-14 | 2015-02-13 |
| 14 | Pre-amplifier (14GHz – 40GHz) | Rohde & Schwarz | SCU-F1840-G35-BZ3-CSS(F) | 10001 | 2014-02-14 | 2015-02-13 |
| 15 | Tunable Notch Filter | Wainwright instruments GmbH | WRCT800.0/80.0-0.2/40-5SSK | 9 | 2014-06-02 | 2015-06-01 |
| 16 | High pass Filter | FSCW | HP 12/2800-5AA2 | 19A45-02 | 2014-06-02 | 2015-06-01 |
| 17 | High-low temperature cabinet | Suzhou Zhihe | TL-40 | 50110050 | 2014-04-13 | 2015-04-12 |
| 18 | AC power stabilizer | WOCEN | 6100 | 51122 | 2014-06-02 | 2015-06-01 |
| 19 | DC power | QJE | QJ30003SII | 611145 | 2014-06-02 | 2015-06-01 |
| 20 | UNIVERSAL RADIO COMMUNICATION TESTER | R&S | CMU 200 | 112012 | 2013-12-13 | 2014-12-12 |

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7 Test Results

7.1 Output Power (ERP/EIRP)

Limit:

| Mode | GSM 850(ERP) | PCS1900(EIRP) |
|-----------|--------------|----------------|
| Frequency | 824 – 849MHz | 1850 – 1910MHz |
| Limit | 38.45dBm(7W) | 33.00dBm(2W) |

Test Setup:

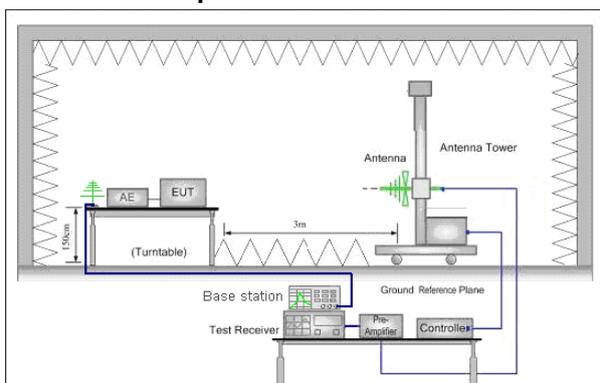


Figure 1. Pre-Calibration

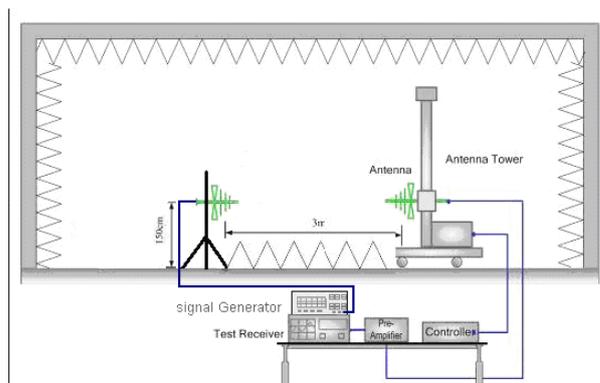


Figure 2. Final Test

- Test Procedure:**
- 1) EUT was placed on a 1.5meter high non – conductive table at a 3 meter test distance from the receive antenna. The height of receiving antenna is 1.5 m. The test setup refers to figure 1 above.
 - 2) Detected emissions were maximized at each frequency by rotating the table and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
 - 3) The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded.
 - 4) The EUT shall be replaced by a substitution antenna the test setup refers to figure 2 above.
 - 5) In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded. The Power of signal source (P_g) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
 - 6) The test results are attain as described below:

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**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

Report No.: SHEM140600138001
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Power(EIRP)=P_g – Cable loss + Antenna Gain
EIRP=ERP+2.15dB

- 7) The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning with AC/DC adapter which it is worse case, only the test worst case mode is recorded in the report.
- 8) Repeat above procedures until all frequencies measured was complete.

Receiver Setup: RBW=1MHz, VBW=3MHz

Test Result: Pass

Test Data:

| Mode | Freq (MHz) | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBi) | Cable loss (dB) | ERP (dBm) | Limit (dBm) | Result |
|----------|------------|---------|--------------|-------------------|--------------------|-----------------|--------------|-------------|--------|
| GSM 850 | 824.20 | 128 | V | 25.24 | 8.40 | 3.32 | 28.17 | 38.45 | Pass |
| | | | H | 24.73 | 8.40 | 3.32 | 27.66 | | Pass |
| | 836.40 | 189 | V | 25.24 | 8.42 | 3.40 | 28.11 | | Pass |
| | | | H | 23.78 | 8.42 | 3.40 | 26.65 | | Pass |
| | 848.80 | 251 | V | 25.63 | 8.47 | 3.43 | 28.52 | | Pass |
| | | | H | 24.89 | 8.47 | 3.43 | 27.78 | | Pass |
| GPRS 850 | 824.20 | 128 | V | 23.31 | 8.40 | 3.32 | 26.24 | | Pass |
| | | | H | 22.83 | 8.40 | 3.32 | 25.76 | | Pass |
| | 836.40 | 189 | V | 23.58 | 8.42 | 3.40 | 26.45 | | Pass |
| | | | H | 22.94 | 8.42 | 3.40 | 25.81 | | Pass |
| | 848.80 | 251 | V | 23.73 | 8.47 | 3.43 | 26.62 | | Pass |
| | | | H | 22.94 | 8.47 | 3.43 | 25.83 | | Pass |

| Mode | Freq (MHz) | Channel | Antenna Pol. | S.G. output (dBm) | Antenna Gain (dBi) | Cable loss (dB) | EIRP (dBm) | Limit (dBm) | Result |
|-----------|------------|---------|--------------|-------------------|--------------------|-----------------|--------------|-------------|--------|
| PCS 1900 | 1850.20 | 512 | V | 22.36 | 9.15 | 4.15 | 27.36 | 33.00 | Pass |
| | | | H | 21.08 | 9.15 | 4.15 | 26.08 | | Pass |
| | 1880.00 | 661 | V | 22.39 | 9.22 | 4.28 | 27.33 | | Pass |
| | | | H | 21.86 | 9.22 | 4.28 | 26.80 | | Pass |
| | 1908.80 | 810 | V | 22.58 | 9.25 | 4.41 | 27.42 | | Pass |
| | | | H | 21.92 | 9.25 | 4.41 | 26.76 | | Pass |
| GPRS 1900 | 1850.20 | 512 | V | 22.16 | 9.15 | 4.15 | 27.16 | | Pass |
| | | | H | 20.68 | 9.15 | 4.15 | 25.68 | | Pass |
| | 1880.00 | 661 | V | 22.26 | 9.22 | 4.28 | 27.20 | | Pass |
| | | | H | 21.32 | 9.22 | 4.28 | 26.26 | | Pass |
| | 1909.80 | 810 | V | 22.48 | 9.25 | 4.41 | 27.32 | | Pass |
| | | | H | 21.72 | 9.25 | 4.41 | 26.56 | | Pass |

Remark: ERP=S.G. output + Antenna Gain - Cable loss-2.15
EIRP=S.G. output + Antenna Gain - Cable loss

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7.2 Peak-to-Average Ratio

Limit: <13dB

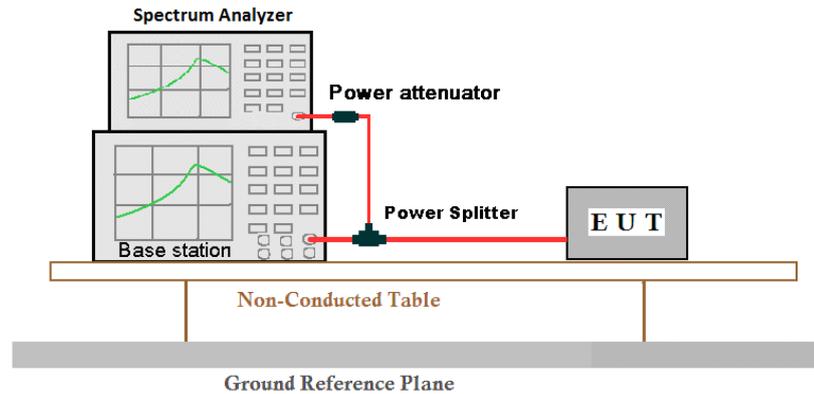
Test Results: Pass

Test Data:

| Band | Frequency (MHz) | Channel | Test Mode | Peak-to-Average Ratio(dB) |
|----------|-----------------|---------|-----------|---------------------------|
| GSM850 | 824.20 | 128 | GSM Only | 1.50 |
| | | | GPRS | 2.12 |
| | 836.40 | 189 | GSM Only | 2.34 |
| | | | GPRS | 1.42 |
| | 848.80 | 251 | GSM Only | 2.44 |
| | | | GPRS | 2.61 |
| PCS 1900 | 1850.20 | 512 | GSM Only | 3.50 |
| | | | GPRS | 3.21 |
| | 1880.00 | 661 | GSM Only | 3.50 |
| | | | GPRS | 3.21 |
| | 1909.80 | 810 | GSM Only | 3.50 |
| | | | GPRS | 3.21 |

7.3 Occupied Bandwidth

Test Setup:



Test Procedure:

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel).

Use the Occupied Bandwidth function of SA to measure the 99% bandwidth and 26dBc bandwidth.

Receiver Setup:

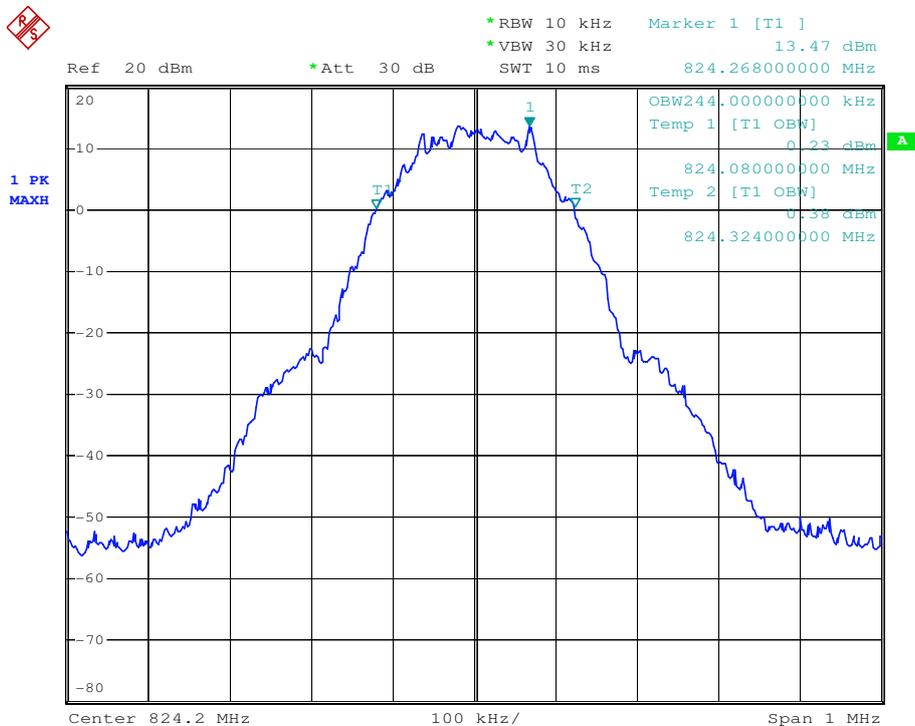
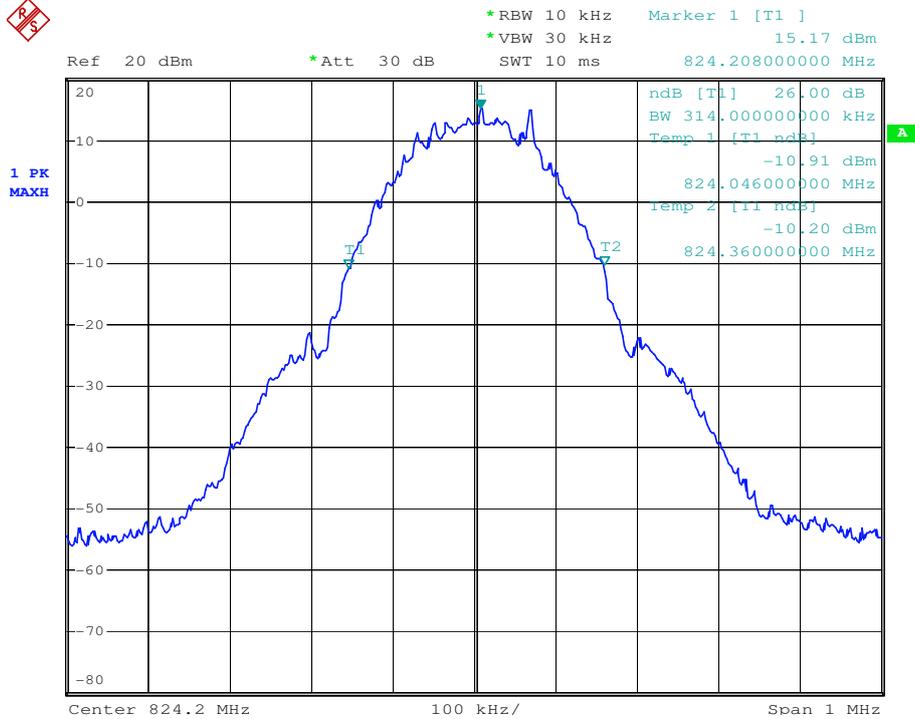
RBW=10KHz, VBW=30KHz, Span=1MHz, Detector=Peak, Sweep time=Auto

Test Data:

| Mode | Test channel | Frequency (MHz) | 26dB OBW (kHz) | 99% OBW (kHz) |
|-----------|--------------|-----------------|----------------|---------------|
| GSM 850 | 128 | 824.20 | 314 | 244 |
| | 189 | 836.40 | 322 | 246 |
| | 251 | 848.80 | 318 | 242 |
| GPRS 850 | 128 | 824.20 | 318 | 240 |
| | 189 | 836.40 | 322 | 244 |
| | 251 | 848.80 | 316 | 242 |
| PCS 1900 | 512 | 1850.20 | 324 | 240 |
| | 661 | 1880.00 | 318 | 242 |
| | 810 | 1909.80 | 314 | 244 |
| GPRS 1900 | 512 | 1850.20 | 328 | 242 |
| | 661 | 1880.00 | 316 | 244 |
| | 810 | 1909.80 | 322 | 248 |

Test plot as follows:

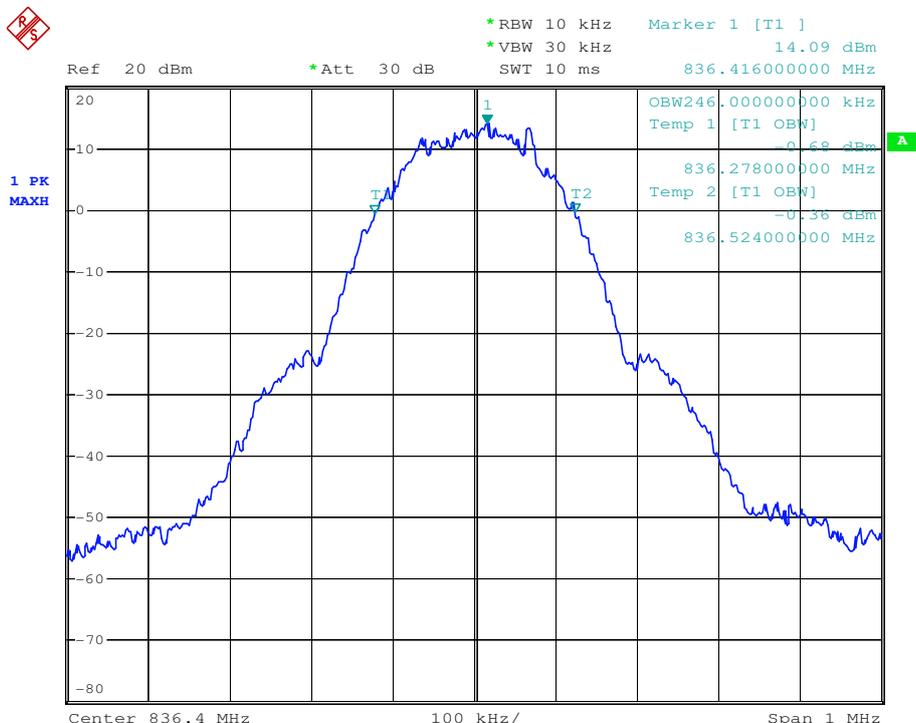
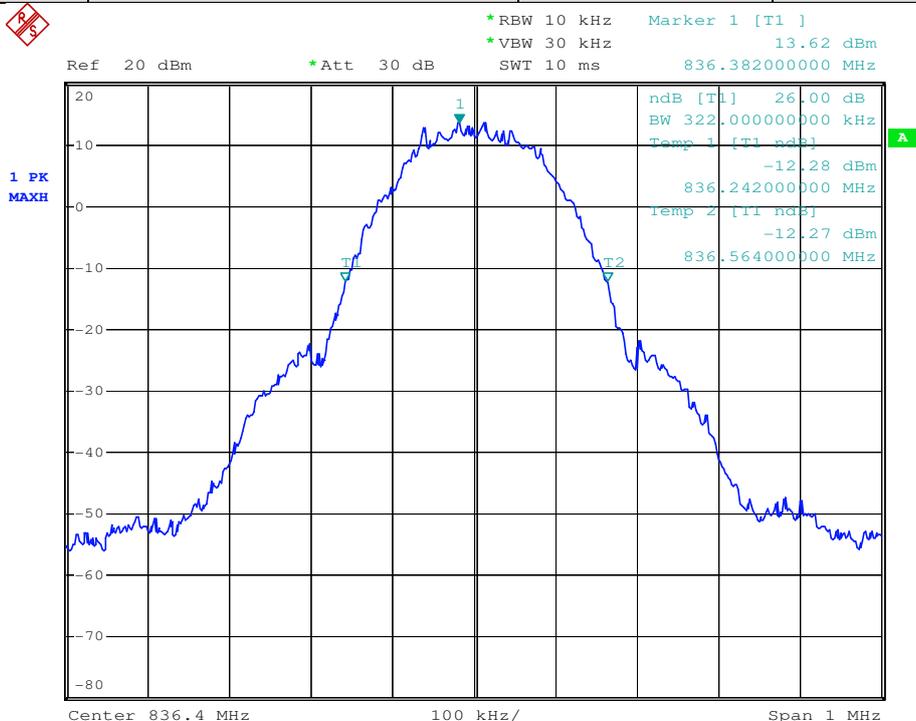
| | | | |
|------------|---------|--------------|------------|
| Test Mode: | GSM 850 | Test channel | Lowest/128 |
|------------|---------|--------------|------------|



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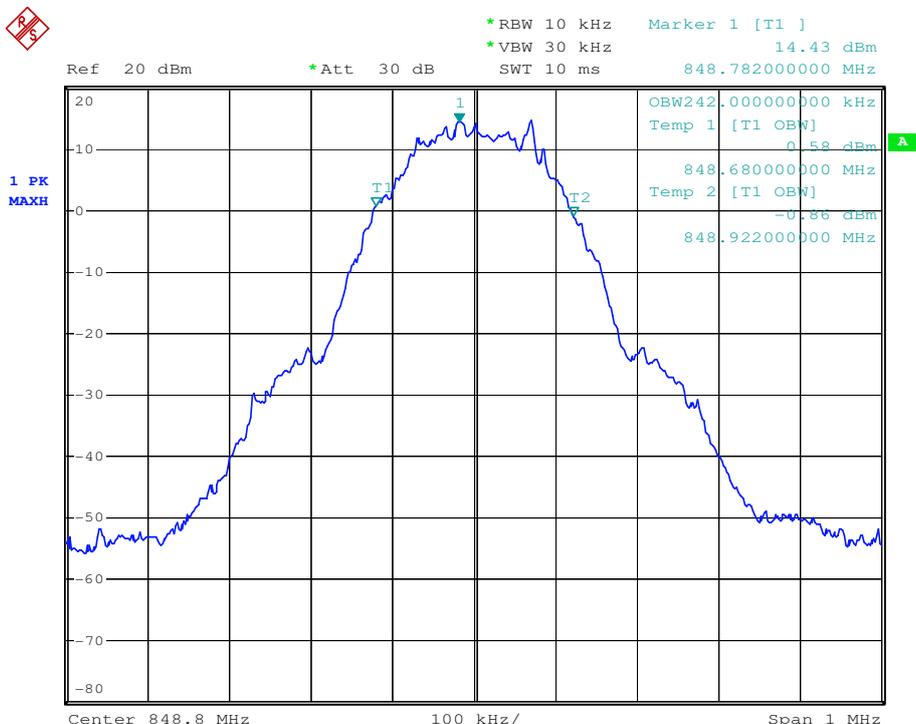
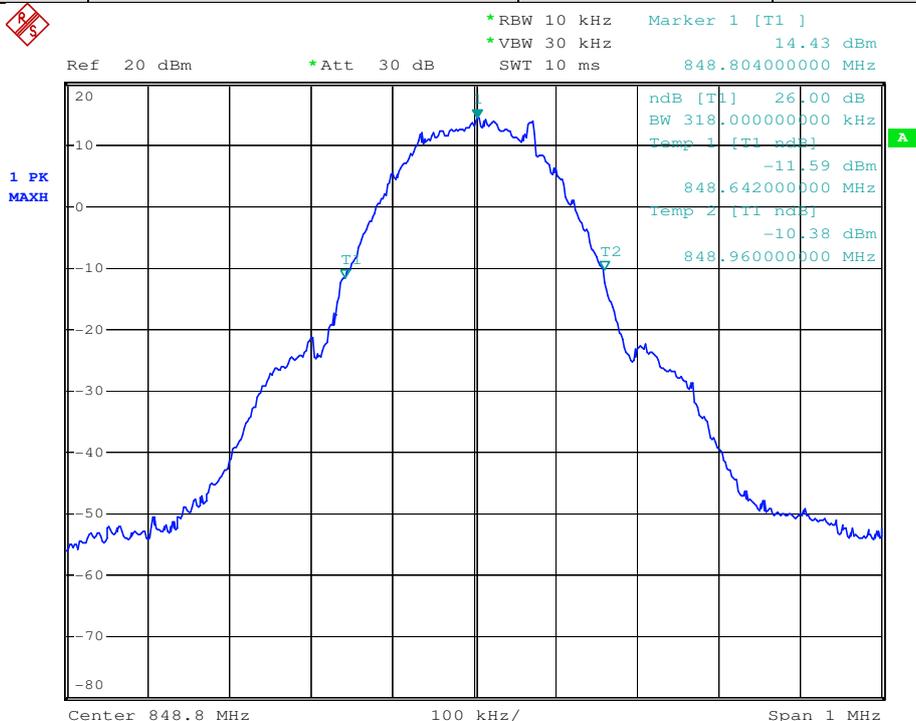
| | | | |
|------------|---------|--------------|------------|
| Test Mode: | GSM 850 | Test channel | Middle/189 |
|------------|---------|--------------|------------|



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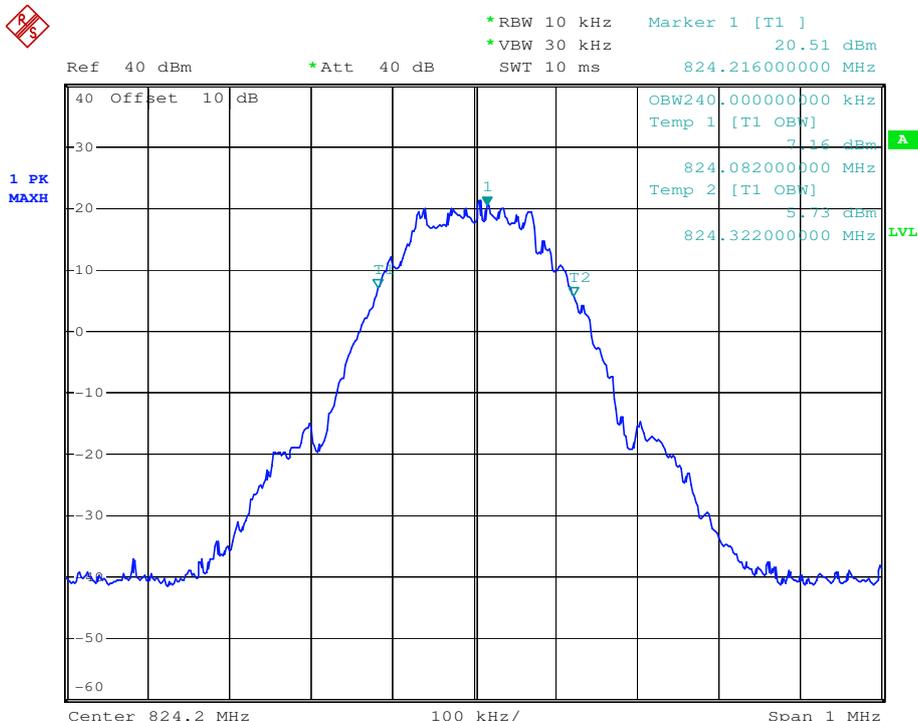
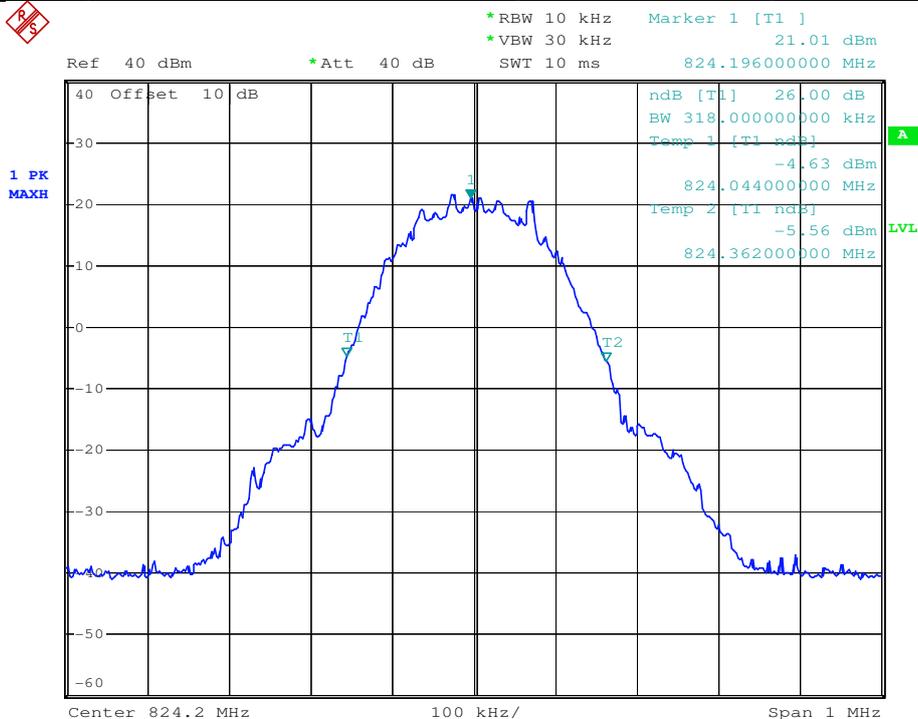
| | | | |
|------------|---------|--------------|-------------|
| Test Mode: | GSM 850 | Test channel | Highest/251 |
|------------|---------|--------------|-------------|



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| | | | |
|------------|----------|--------------|------------|
| Test Mode: | GPRS 850 | Test channel | Lowest/128 |
|------------|----------|--------------|------------|



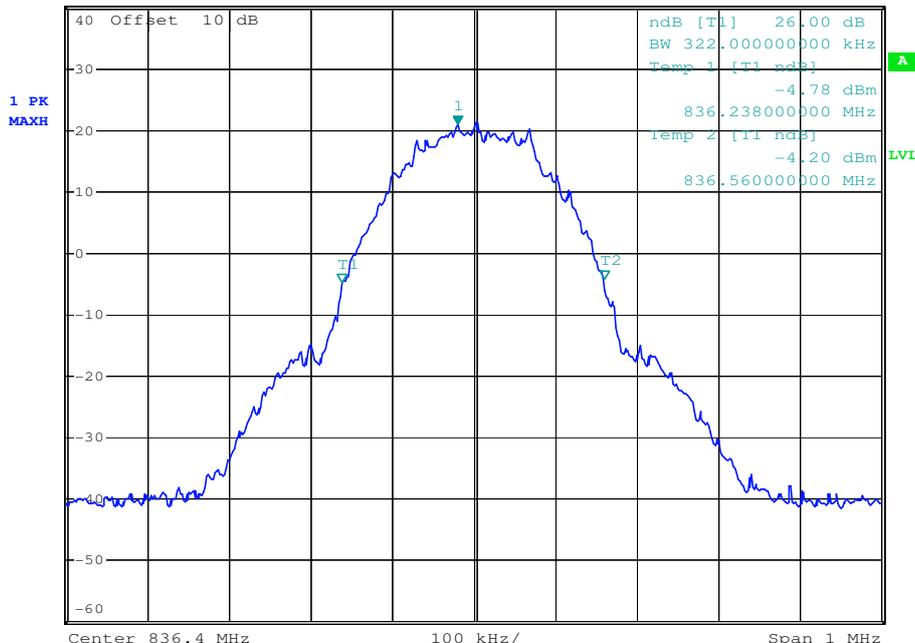
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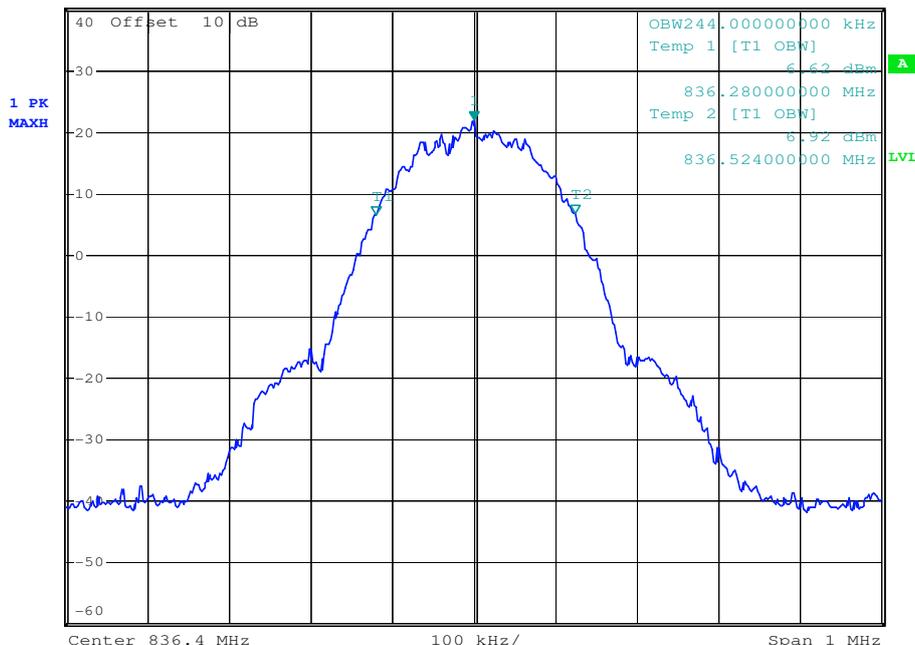
| | | | |
|------------|----------|--------------|------------|
| Test Mode: | GPRS 850 | Test channel | Middle/189 |
|------------|----------|--------------|------------|



Ref 40 dBm *Att 40 dB SWT 10 ms
*RBW 10 kHz Marker 1 [T1] 20.86 dBm
*VBW 30 kHz 836.380000000 MHz



Ref 40 dBm *Att 40 dB SWT 10 ms
*RBW 10 kHz Marker 1 [T1] 21.98 dBm
*VBW 30 kHz 836.400000000 MHz



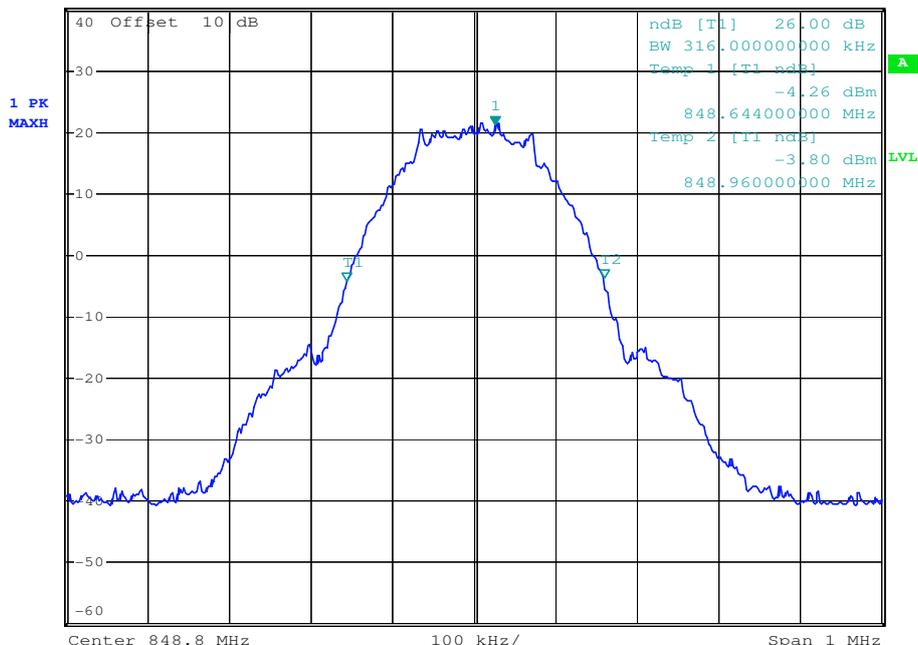
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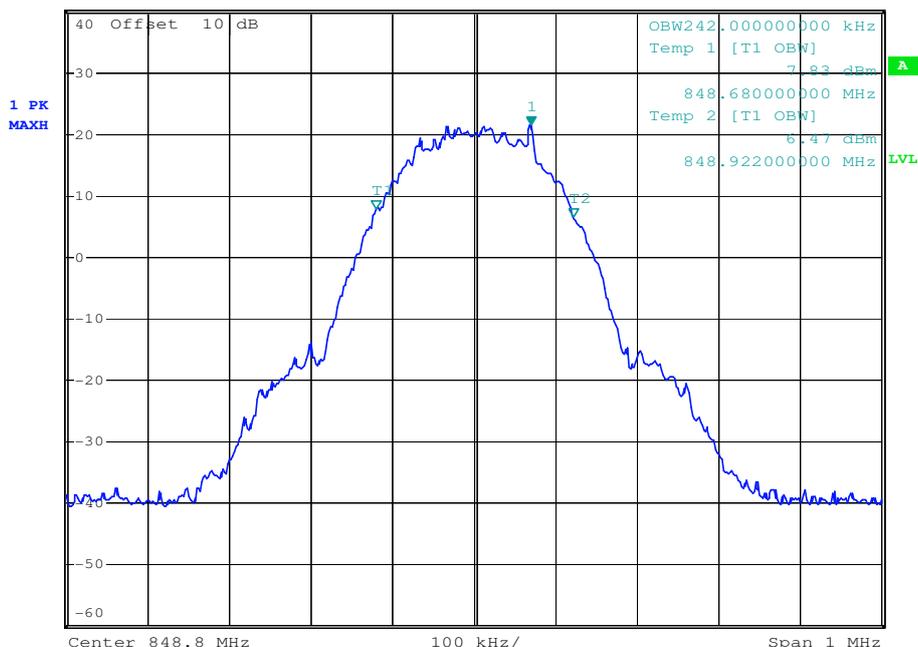
| | | | |
|------------|----------|--------------|-------------|
| Test Mode: | GPRS 850 | Test channel | Highest/251 |
|------------|----------|--------------|-------------|



Ref 40 dBm *Att 40 dB SWT 10 ms
*RBW 10 kHz Marker 1 [T1] 21.29 dBm
*VBW 30 kHz 848.826000000 MHz



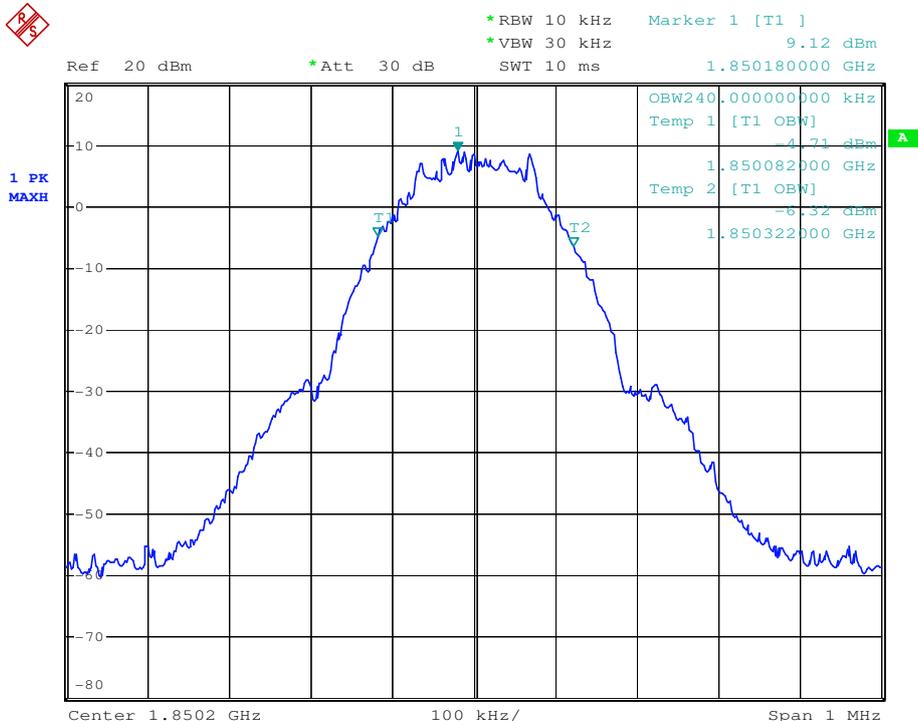
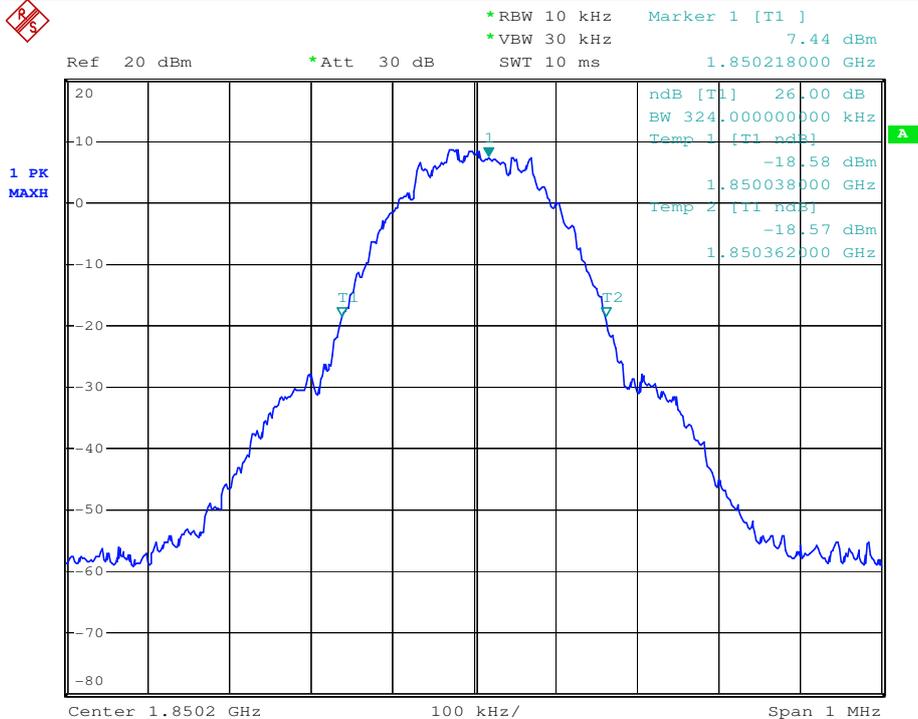
Ref 40 dBm *Att 40 dB SWT 10 ms
*RBW 10 kHz Marker 1 [T1] 21.57 dBm
*VBW 30 kHz 848.870000000 MHz



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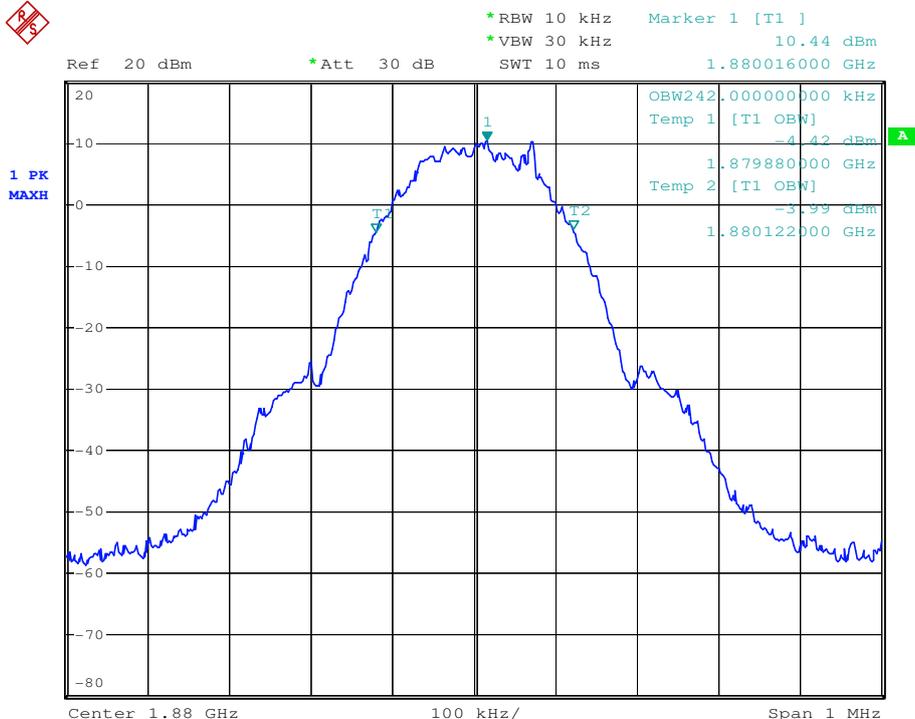
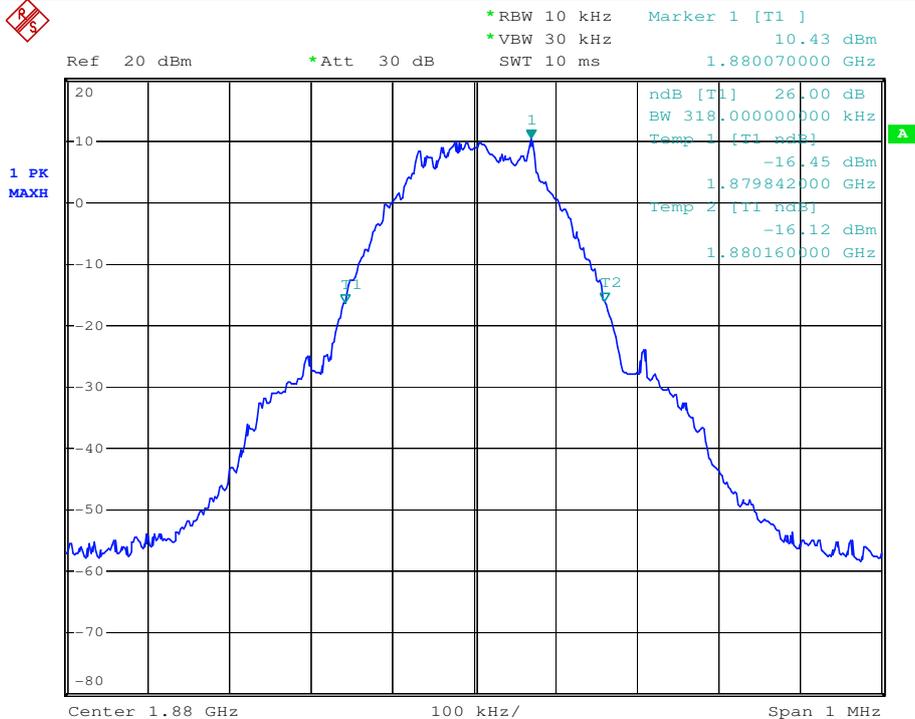
| | | | |
|------------|----------|---------------|------------|
| Test mode: | PCS 1900 | Test channel: | Lowest/512 |
|------------|----------|---------------|------------|



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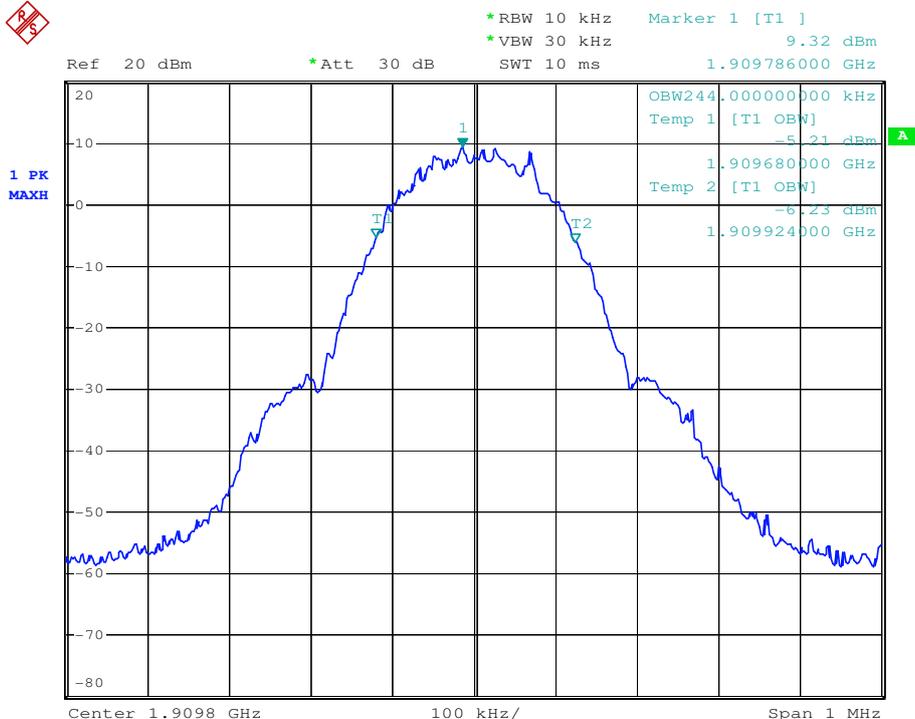
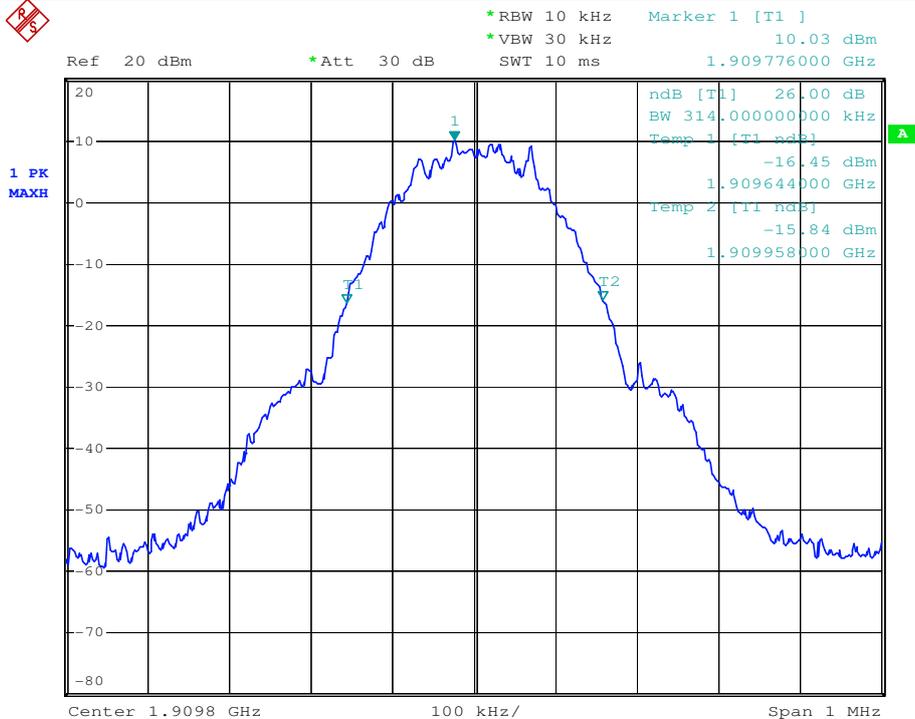
| | | | |
|------------|----------|---------------|------------|
| Test mode: | PCS 1900 | Test channel: | Middle/661 |
|------------|----------|---------------|------------|



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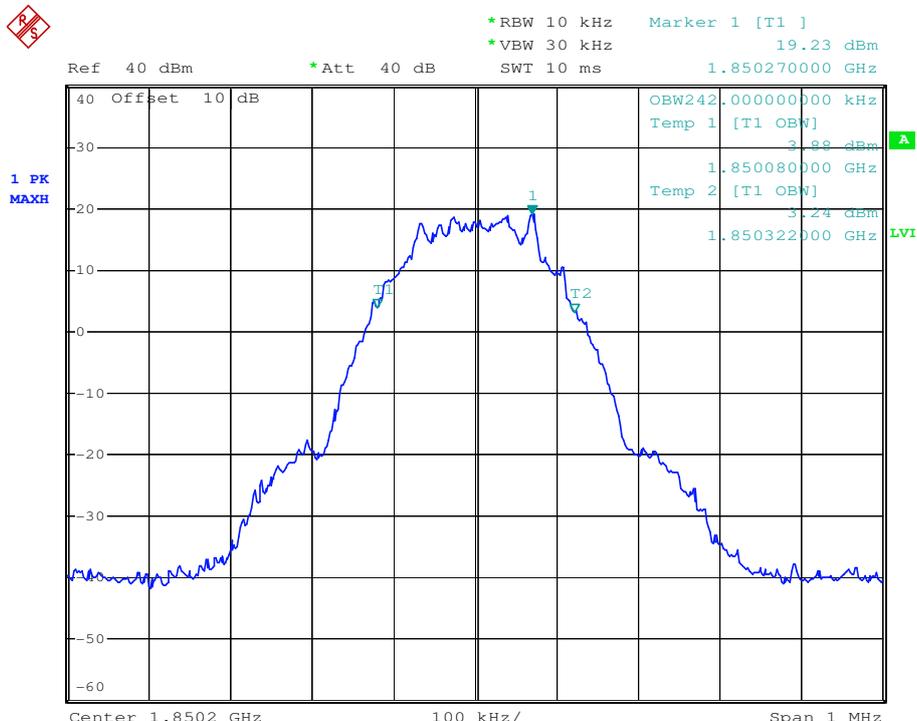
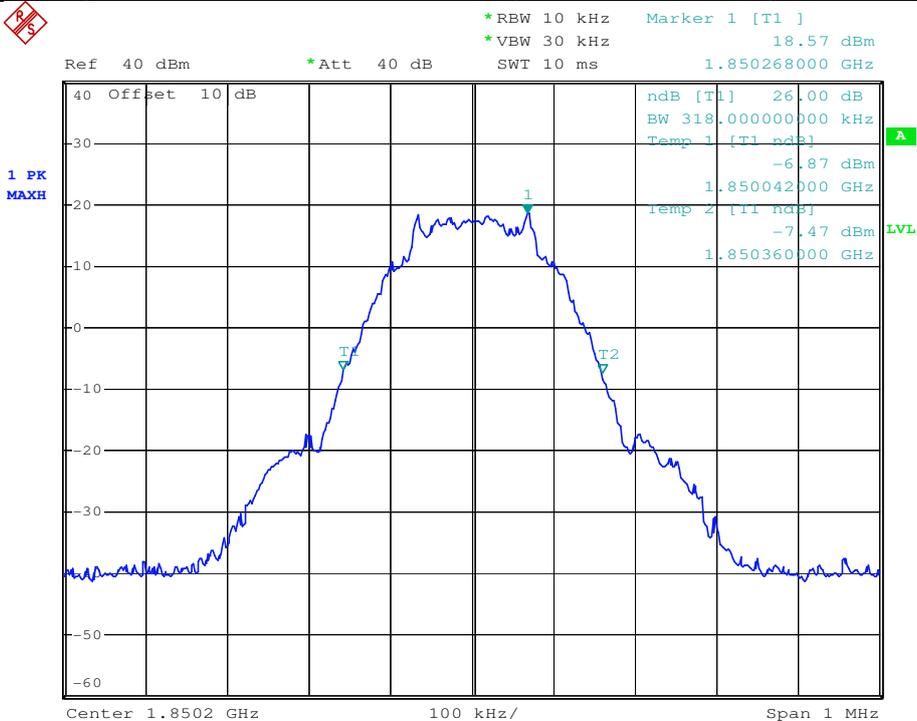
| | | | |
|------------|----------|---------------|-------------|
| Test Mode: | PCS 1900 | Test channel: | Highest/810 |
|------------|----------|---------------|-------------|



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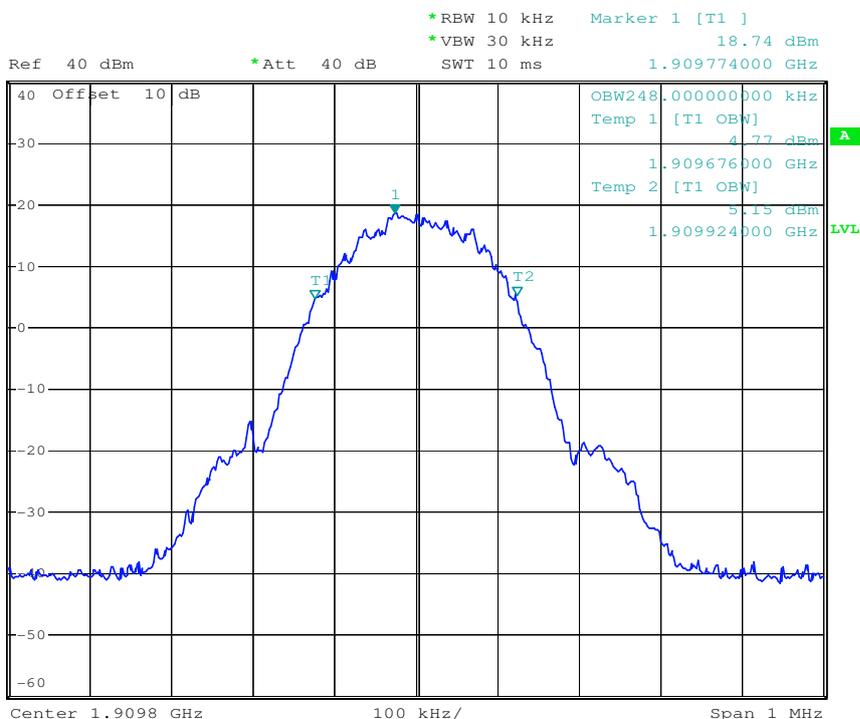
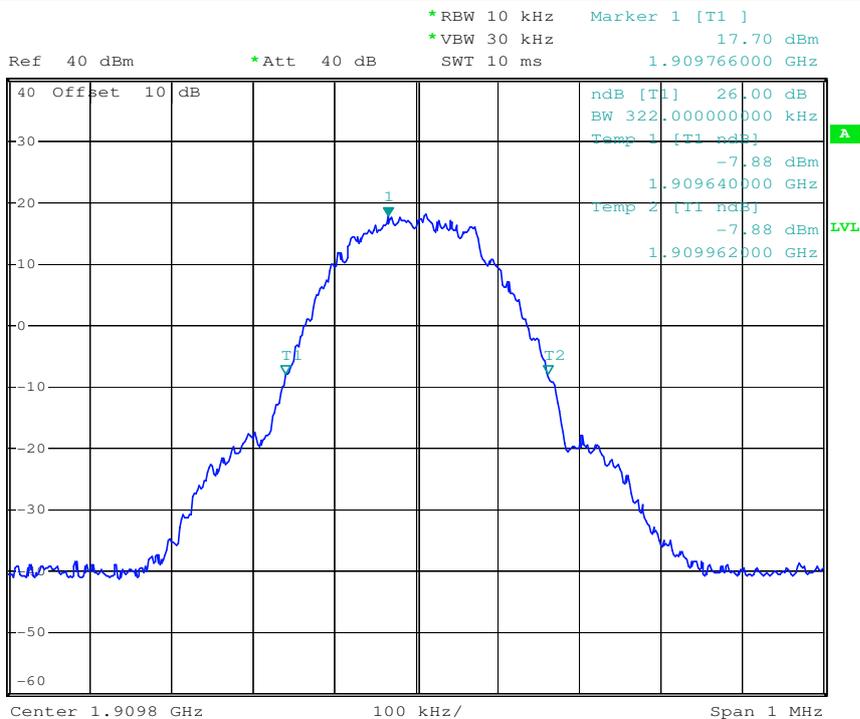
| | | | |
|------------|-----------|---------------|------------|
| Test mode: | GPRS 1900 | Test channel: | Lowest/512 |
|------------|-----------|---------------|------------|



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| | | | |
|------------|-----------|---------------|-------------|
| Test Mode: | GPRS 1900 | Test channel: | Highest/810 |
|------------|-----------|---------------|-------------|



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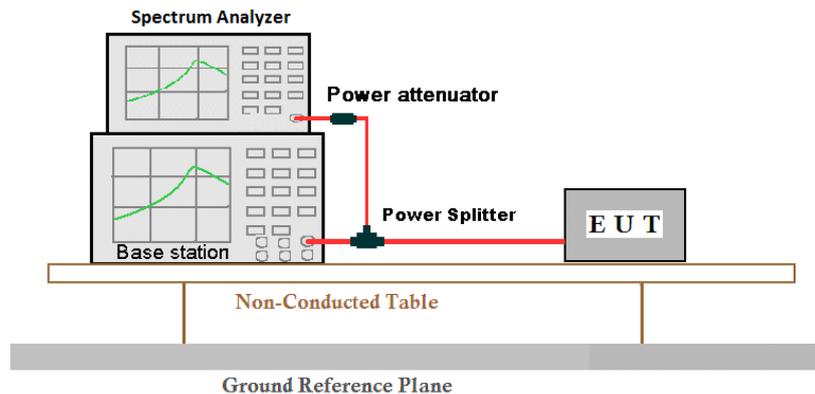
7.4 Band Edge

Limit:

| Operation Band | Frequency Range (MHz) | Limit |
|----------------|---------------------------|------------------------------------|
| GSM 850 | Below 824 and above 849 | Attenuated at least $43+10\log(P)$ |
| PCS1900 | Below 1850 and above 1910 | Attenuated at least $43+10\log(P)$ |

Note: The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Test Setup:



Test Procedure: The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting.

Receiver Setup: RBW=10KHz, VBW=30KHz, Span=1MHz, Detector=AV, Sweep time=Auto

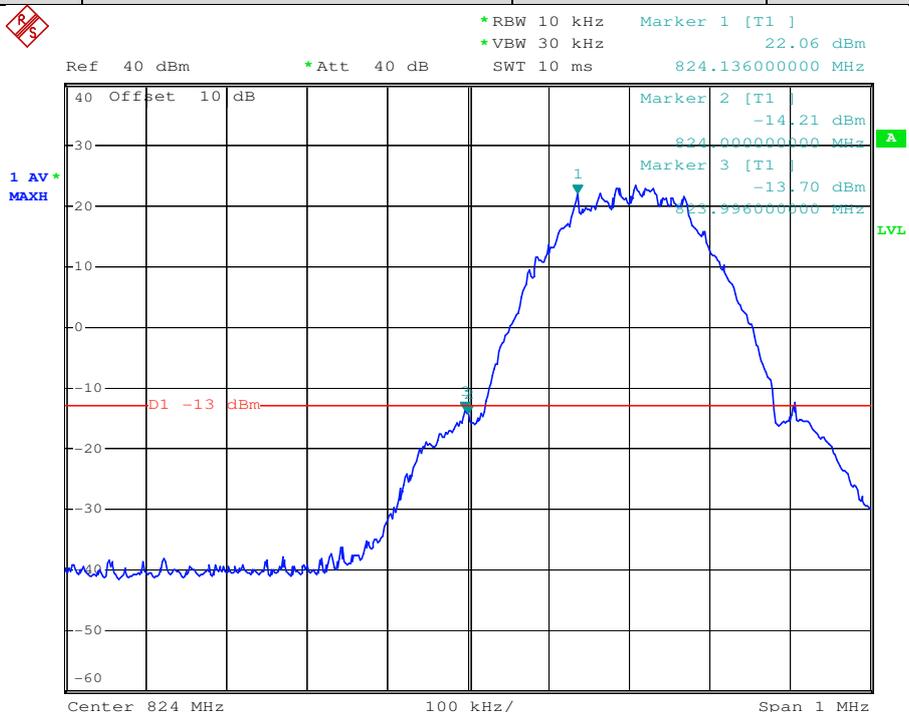
Test Results: Pass

The data of conducted output power for reference:

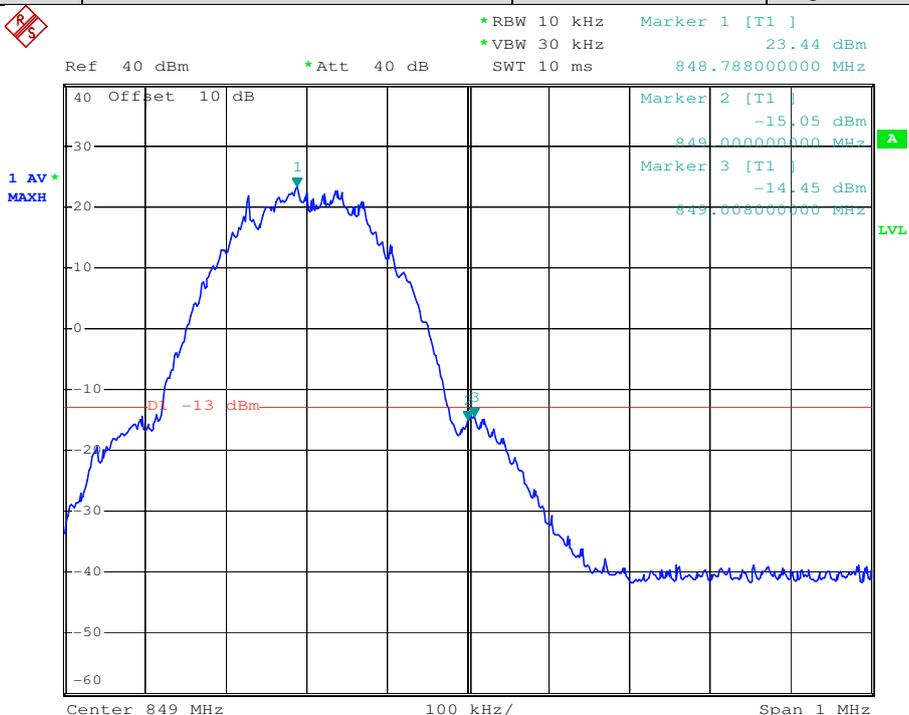
| Band | Channel | Frequency | Conducted Output Power (dBm) | |
|---------|---------|-----------|------------------------------|---------|
| | | | GSM | GPRS 10 |
| GSM850 | 128 | 824.2 | 33.60 | 31.40 |
| | 189 | 836.4 | 32.80 | 31.00 |
| | 251 | 848.8 | 32.50 | 30.70 |
| PCS1900 | 512 | 1850.2 | 29.80 | 29.80 |
| | 661 | 1880.0 | 30.20 | 29.90 |
| | 810 | 1909.8 | 30.20 | 30.10 |



| | | | |
|------------|---------|--------------|------------|
| Test Mode: | GSM 850 | Test channel | Lowest/128 |
|------------|---------|--------------|------------|



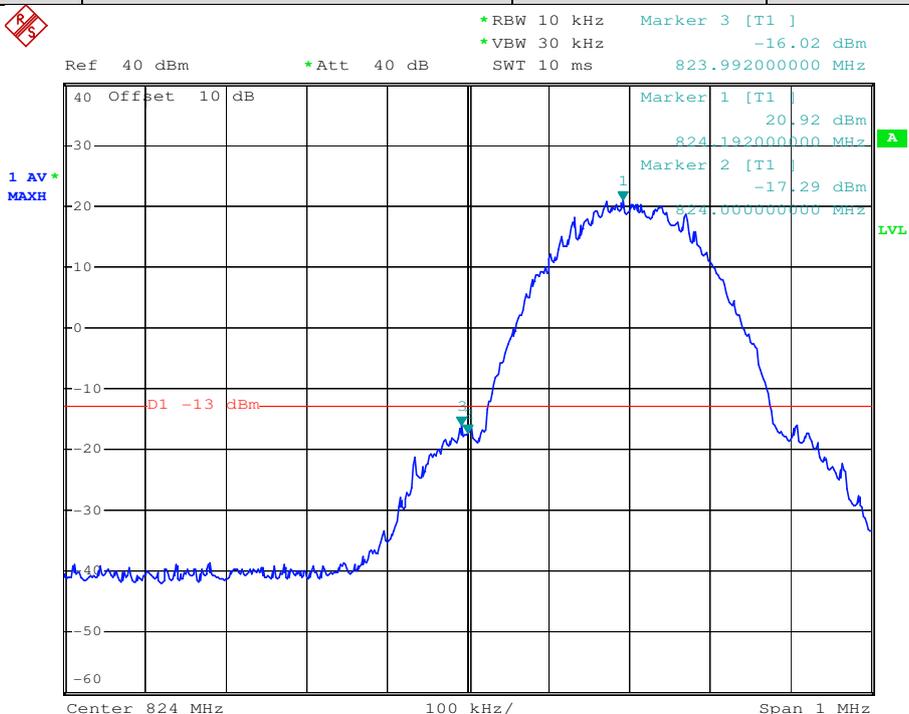
| | | | |
|------------|---------|--------------|-------------|
| Test Mode: | GSM 850 | Test channel | Highest/251 |
|------------|---------|--------------|-------------|



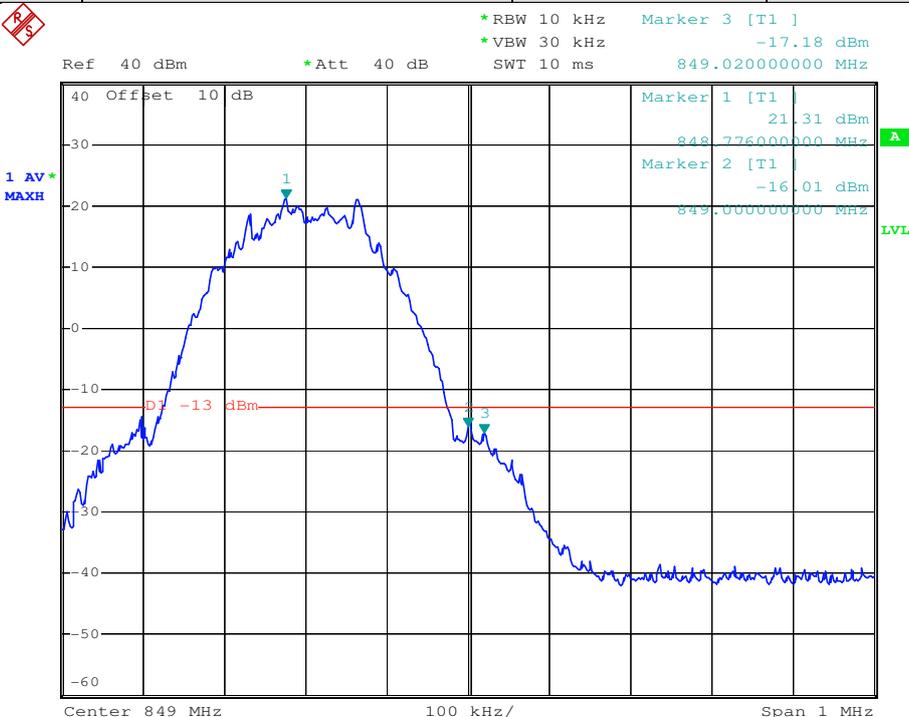
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| | | | |
|------------|----------|--------------|------------|
| Test Mode: | GPRS 850 | Test channel | Lowest/128 |
|------------|----------|--------------|------------|



| | | | |
|------------|----------|--------------|-------------|
| Test Mode: | GPRS 850 | Test channel | Highest/251 |
|------------|----------|--------------|-------------|



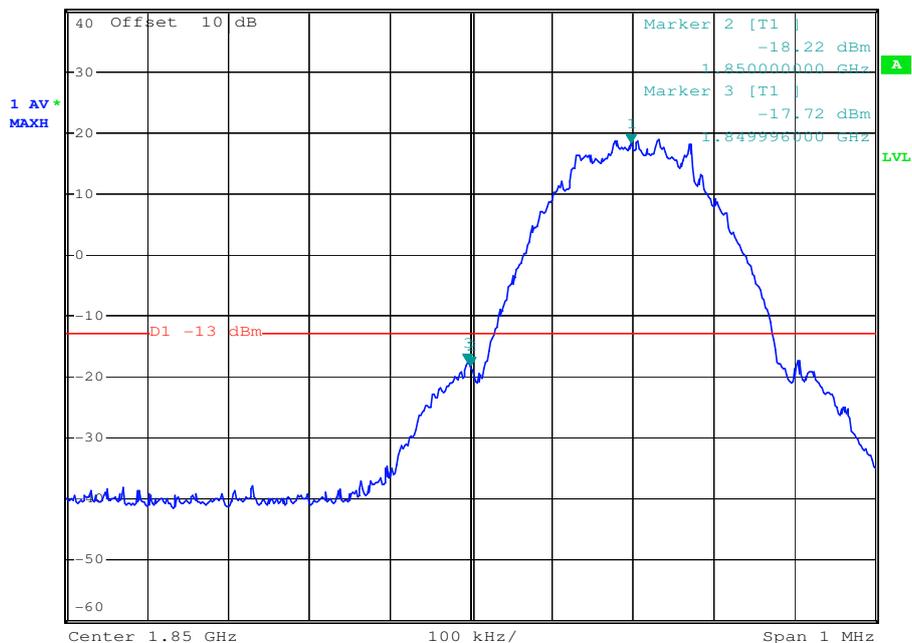
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| | | | |
|------------|---------|--------------|------------|
| Test Mode: | PCS1900 | Test channel | Lowest/512 |
|------------|---------|--------------|------------|



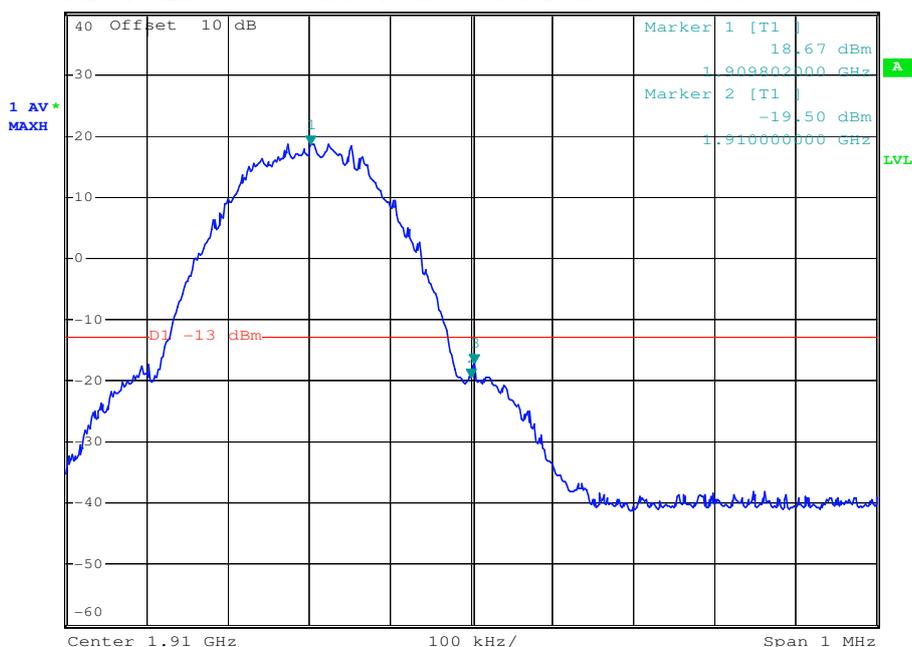
*RBW 10 kHz Marker 1 [T1]
*VBW 30 kHz 18.34 dBm
Ref 40 dBm *Att 40 dB SWT 10 ms 1.850198000 GHz



| | | | |
|------------|---------|--------------|-------------|
| Test Mode: | PCS1900 | Test channel | Highest/810 |
|------------|---------|--------------|-------------|



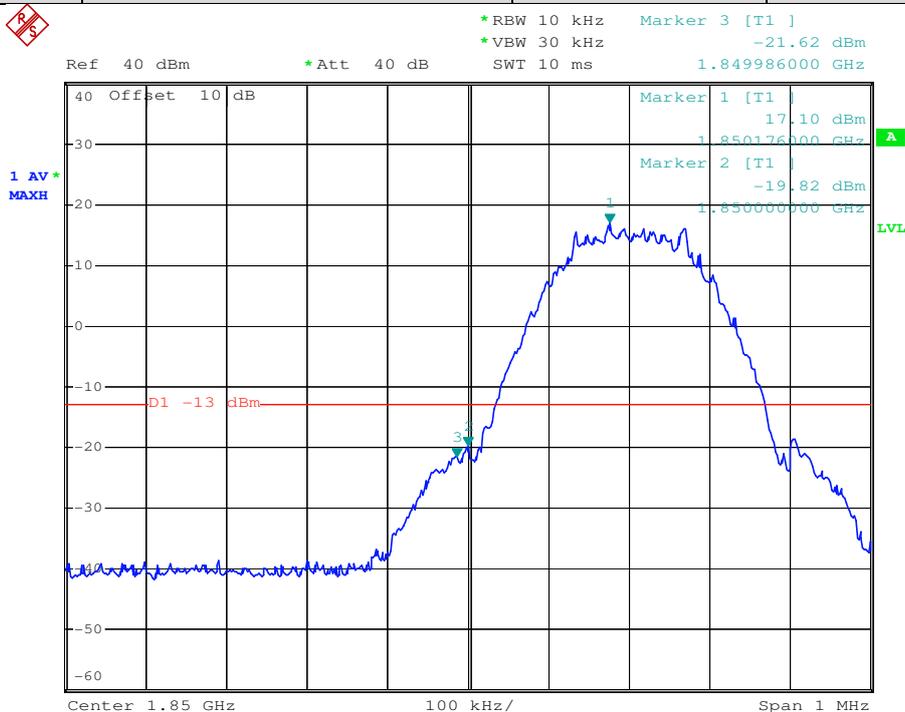
*RBW 10 kHz Marker 3 [T1]
*VBW 30 kHz -17.10 dBm
Ref 40 dBm *Att 40 dB SWT 10 ms 1.910004000 GHz



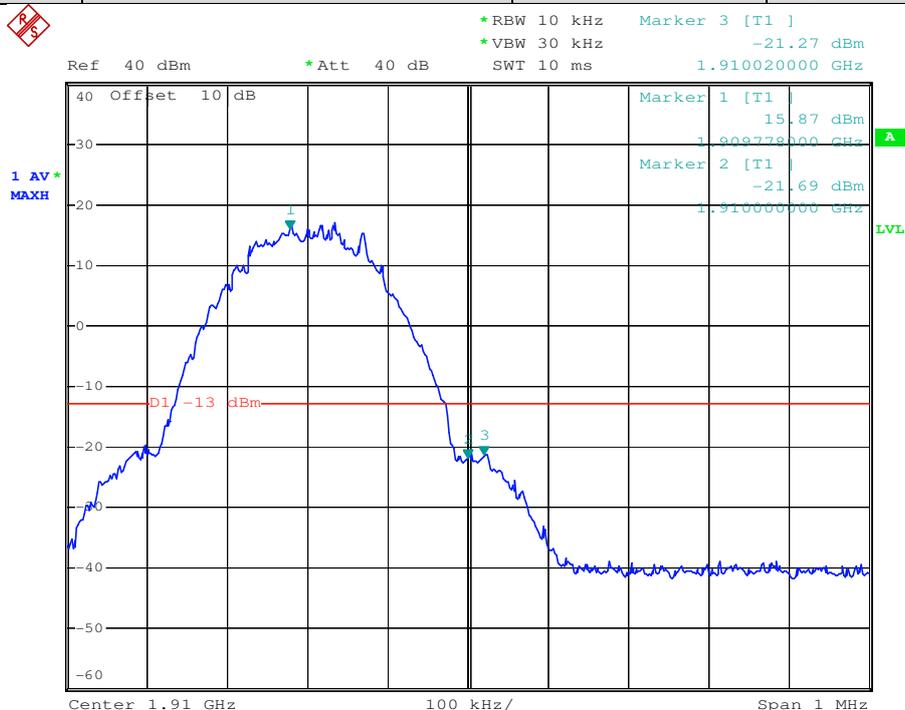
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| | | | |
|------------|-----------|--------------|------------|
| Test Mode: | GPRS 1900 | Test channel | Lowest/512 |
|------------|-----------|--------------|------------|



| | | | |
|------------|-----------|--------------|-------------|
| Test Mode: | GPRS 1900 | Test channel | Highest/810 |
|------------|-----------|--------------|-------------|



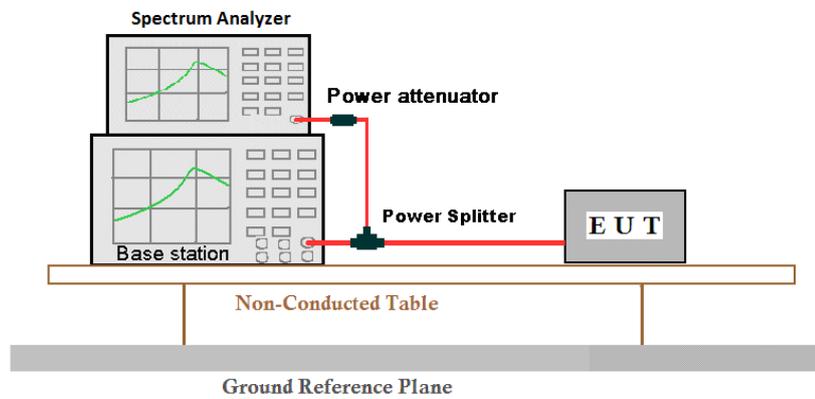
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7.5 Conducted Spurious Emission

Limit: Attenuated at least $43+10\log(P)$

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Test Setup:



Procedure:

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).the equipment operates below 10GHz: to the tenth harmonic of the highest fundamental frequency or to 40GHz.whichever is lower, the resolution bandwidth of the spectrum analyzer was set at 100kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.the video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to mean or average power.

Pretest under all modes; choose the worst case mode (Speech mode) record on the report. Please see the below test results.

Test Results:

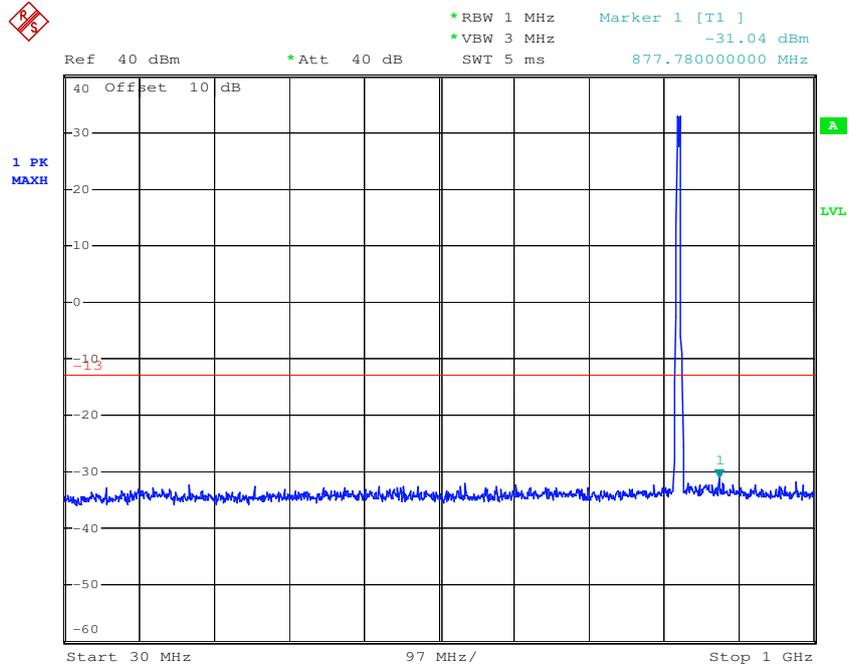
Pass



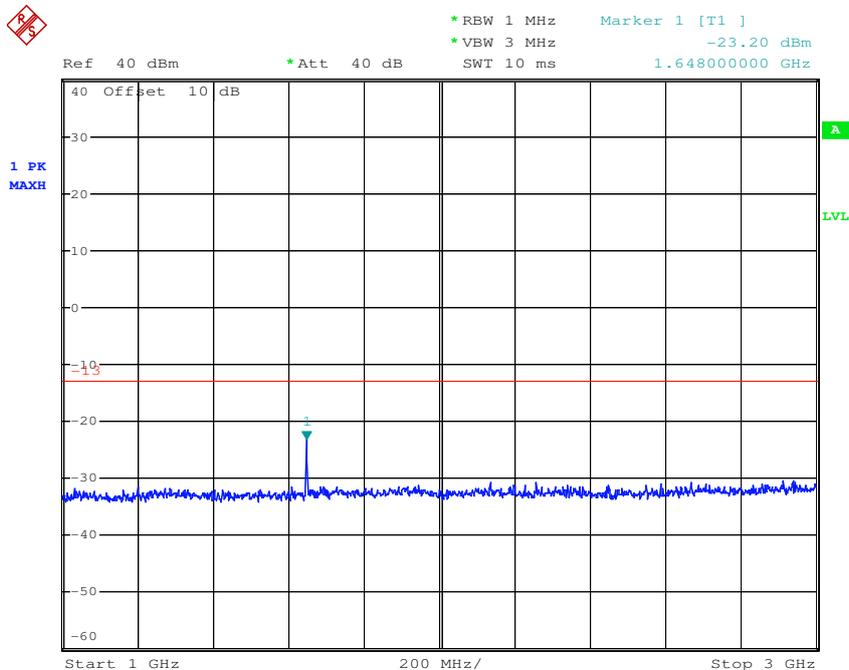
Test plot as follows:

| | | | | | |
|------------|---------|---------------|------------|---------------------|-----------|
| Test mode: | GSM 850 | Test channel: | Lowest/128 | Operation Frequency | 824.20MHz |
|------------|---------|---------------|------------|---------------------|-----------|

30MHz-1GHz:



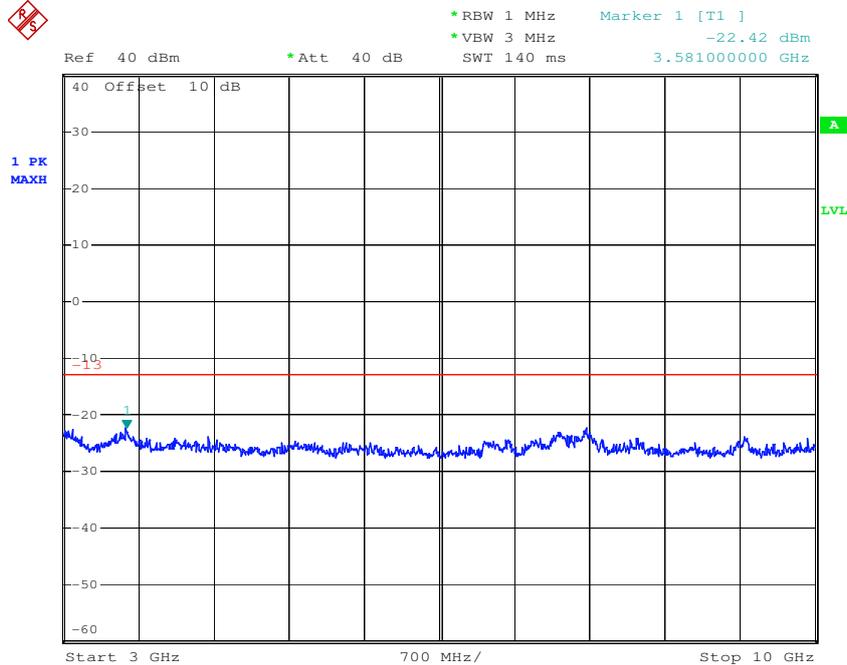
1GHz-3GHz:



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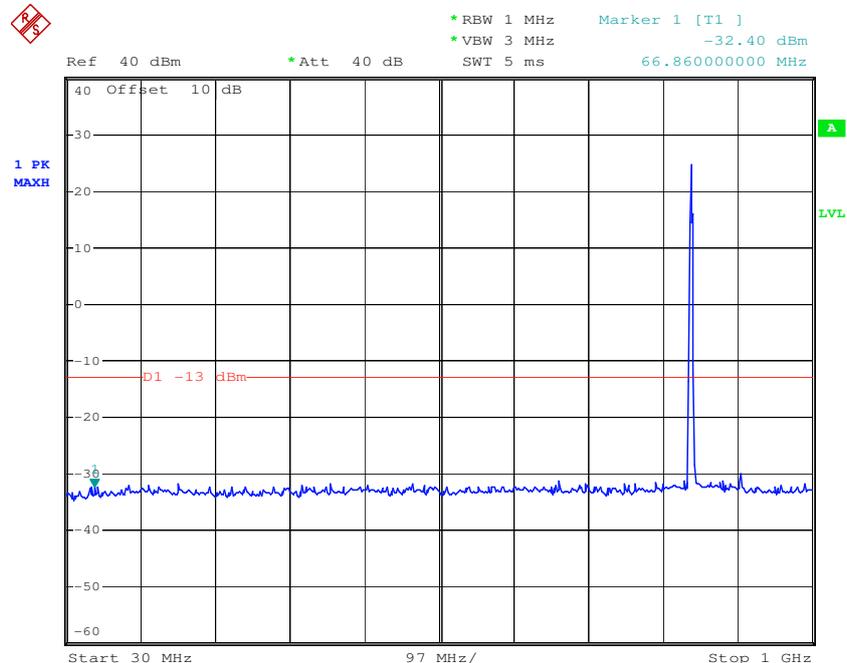


3GHz10GHz:



| | | | | | |
|------------|---------|---------------|------------|---------------------|-----------|
| Test mode: | GSM 850 | Test channel: | Middle/189 | Operation Frequency | 836.40MHz |
|------------|---------|---------------|------------|---------------------|-----------|

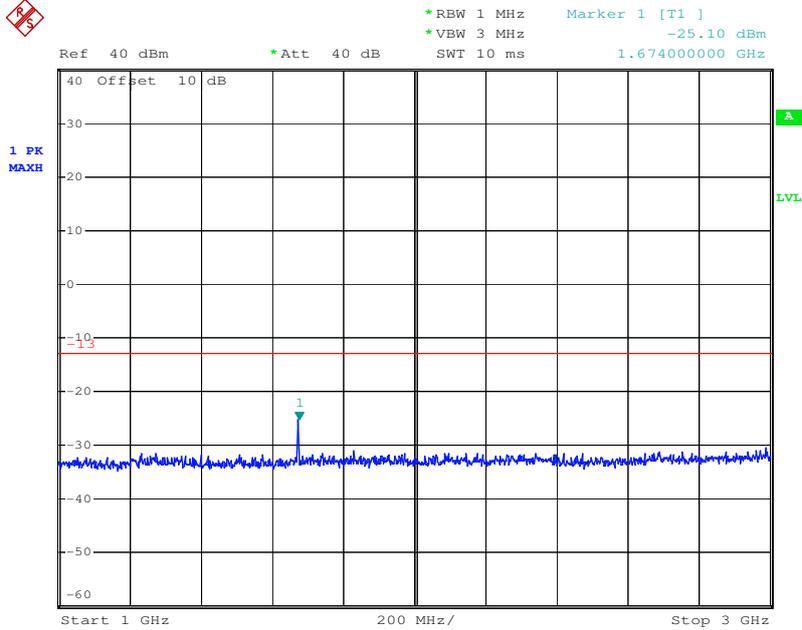
30MHz-1GHz:



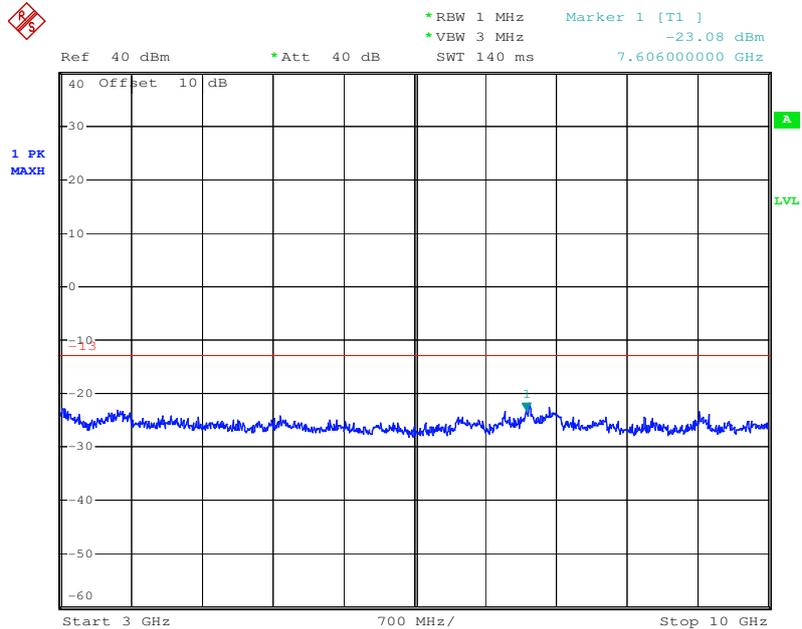
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1GHz-3GHz:



3GHz-10GHz:

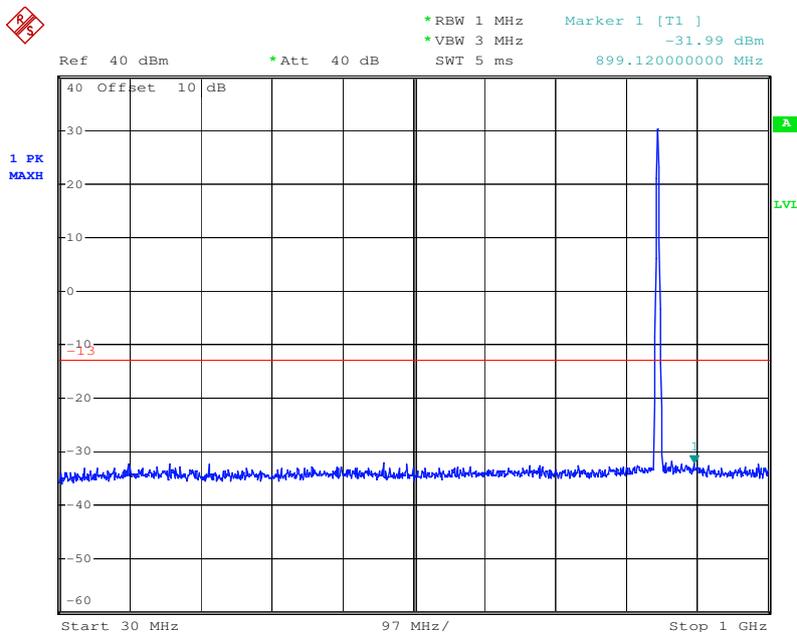


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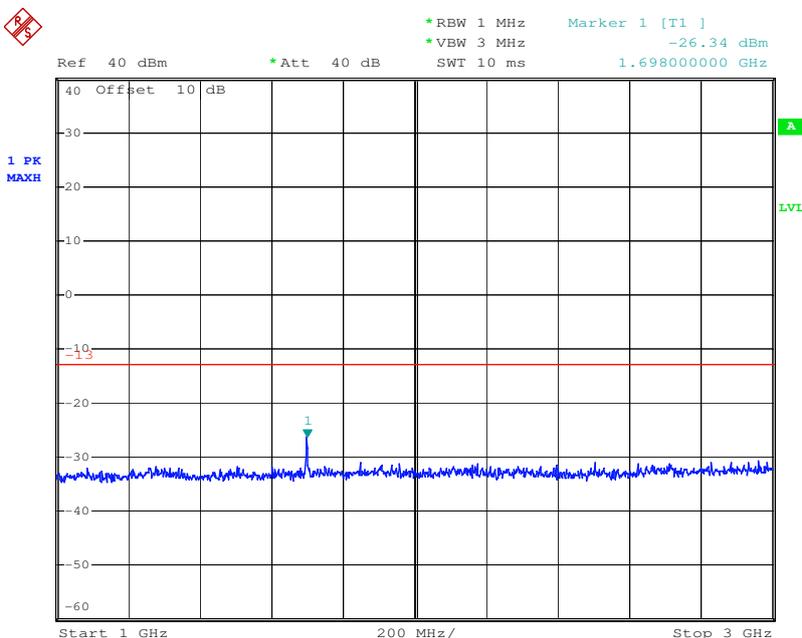


| | | | | | |
|------------|---------|---------------|----------|---------------------|-----------|
| Test mode: | GSM 850 | Test channel: | High/251 | Operation Frequency | 848.80MHz |
|------------|---------|---------------|----------|---------------------|-----------|

30MHz-1GHz:

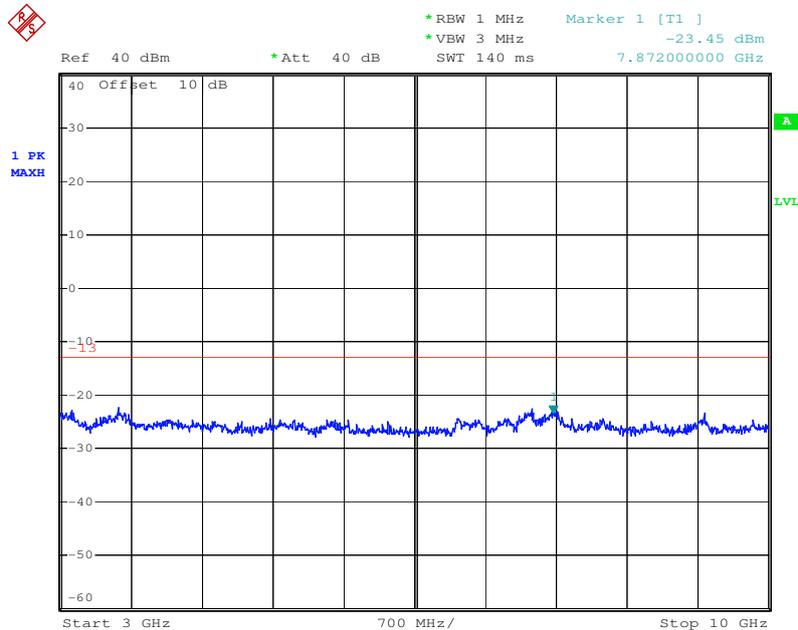


1GHz-3GHz:



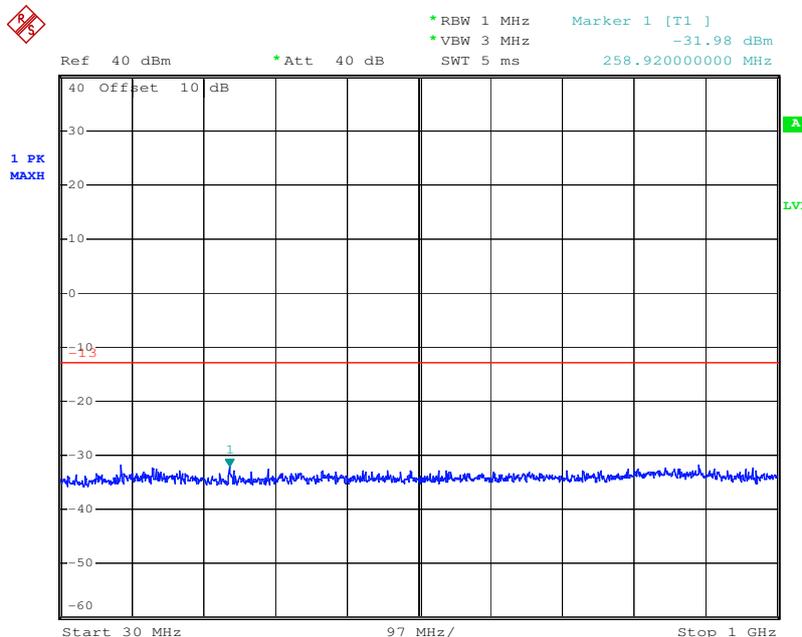
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3GHz-10GHz:



| | | | | | |
|------------|----------|---------------|------------|---------------------|------------|
| Test mode: | PCS 1900 | Test channel: | Lowest/512 | Operation Frequency | 1850.20MHz |
|------------|----------|---------------|------------|---------------------|------------|

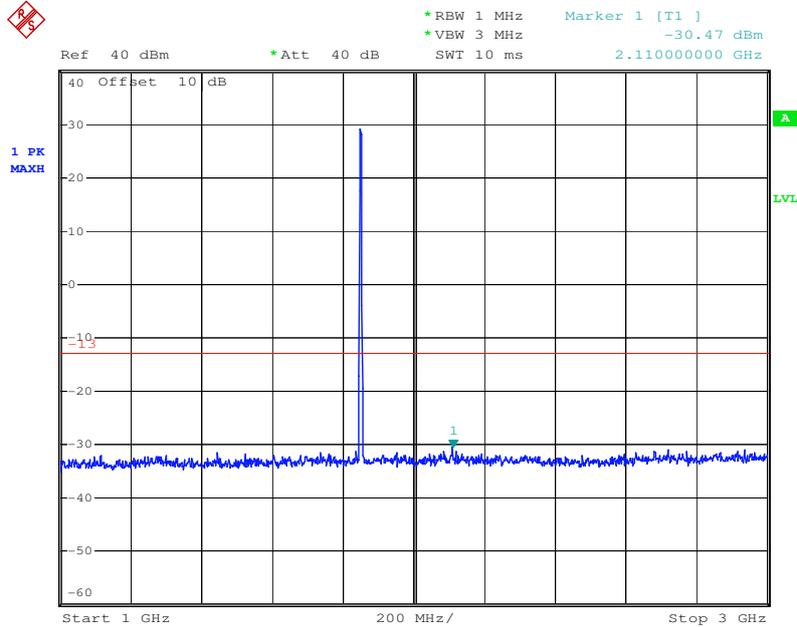
30MHz-1GHz:



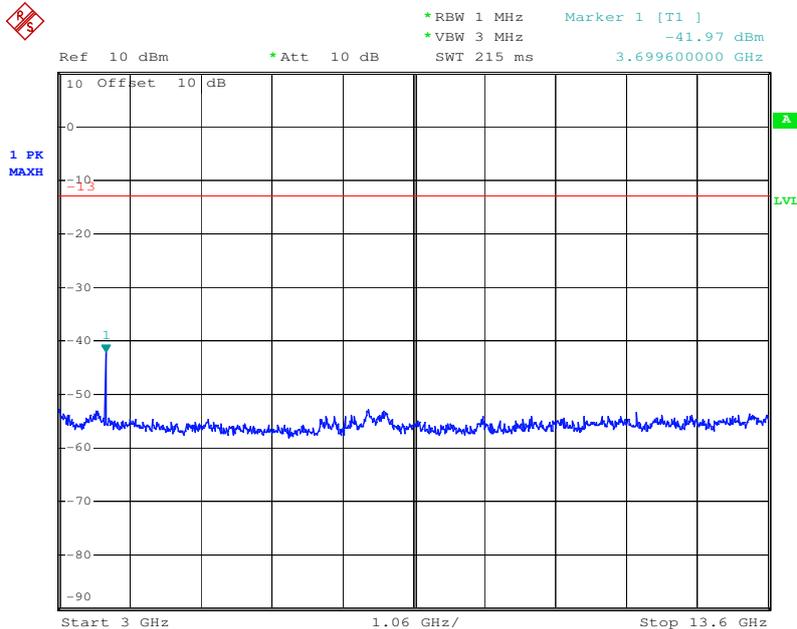
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1GHz-3GHz:



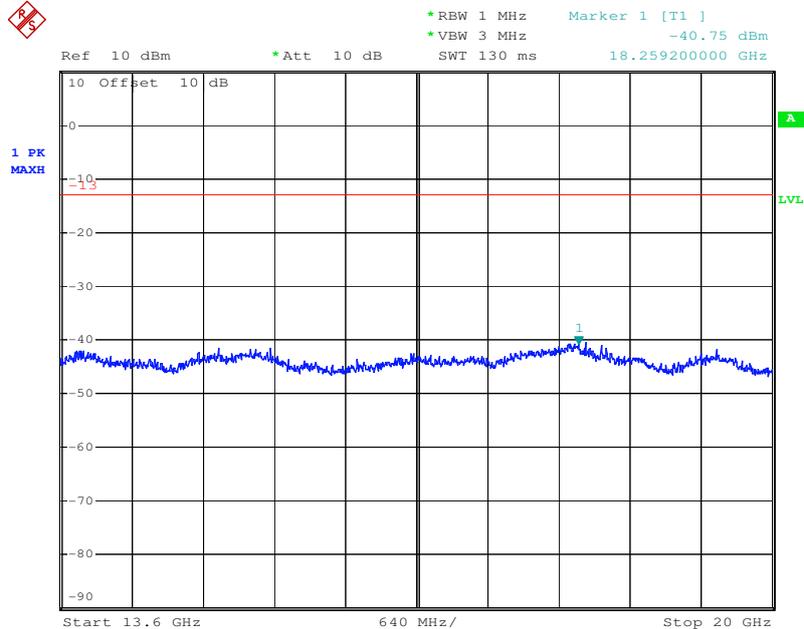
3GHz-13.6GHz:



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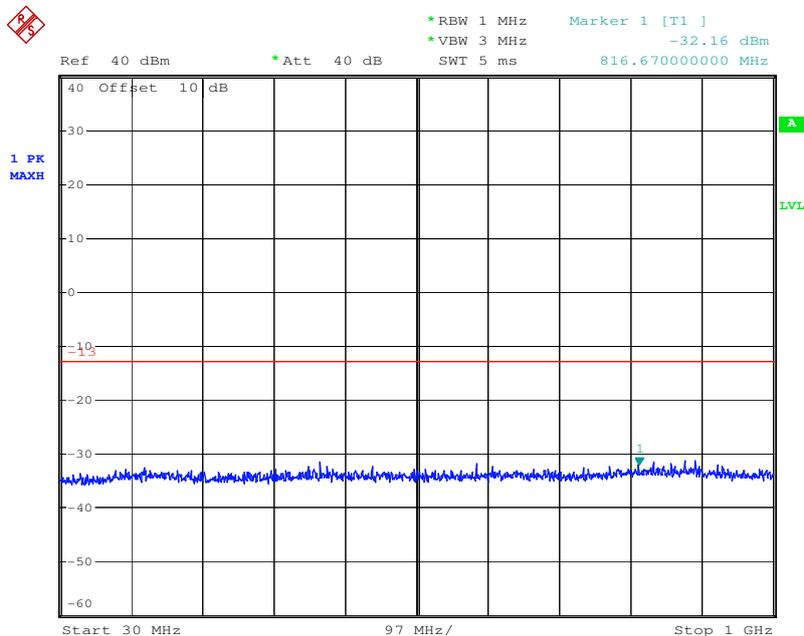


13.6GHz-20GHz:



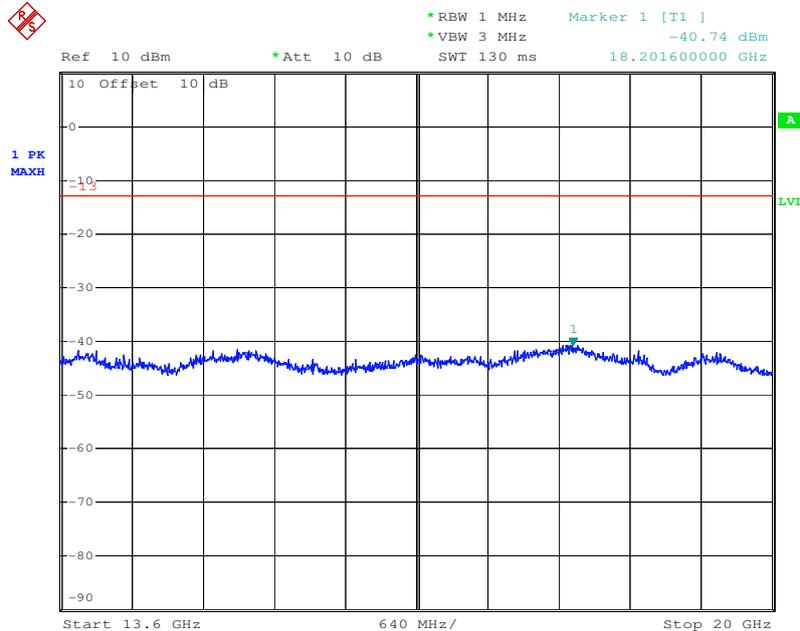
| | | | | | |
|------------|----------|---------------|------------|---------------------|------------|
| Test mode: | PCS 1900 | Test channel: | Middle/661 | Operation Frequency | 1880.00MHz |
|------------|----------|---------------|------------|---------------------|------------|

30MHz-1GHz:



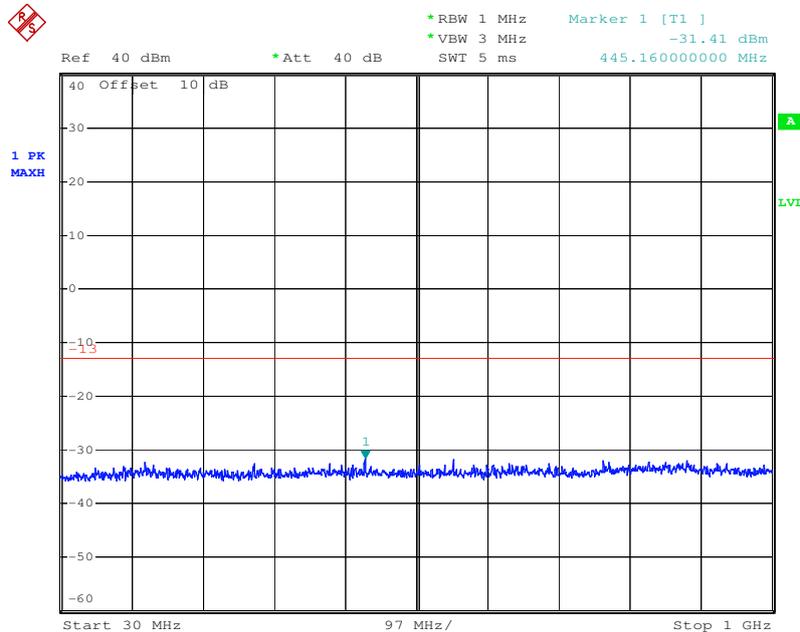
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13.6GHz-20GHz:



| | | | | | |
|------------|----------|---------------|----------|---------------------|------------|
| Test mode: | PCS 1900 | Test channel: | High/810 | Operation Frequency | 1909.80MHz |
|------------|----------|---------------|----------|---------------------|------------|

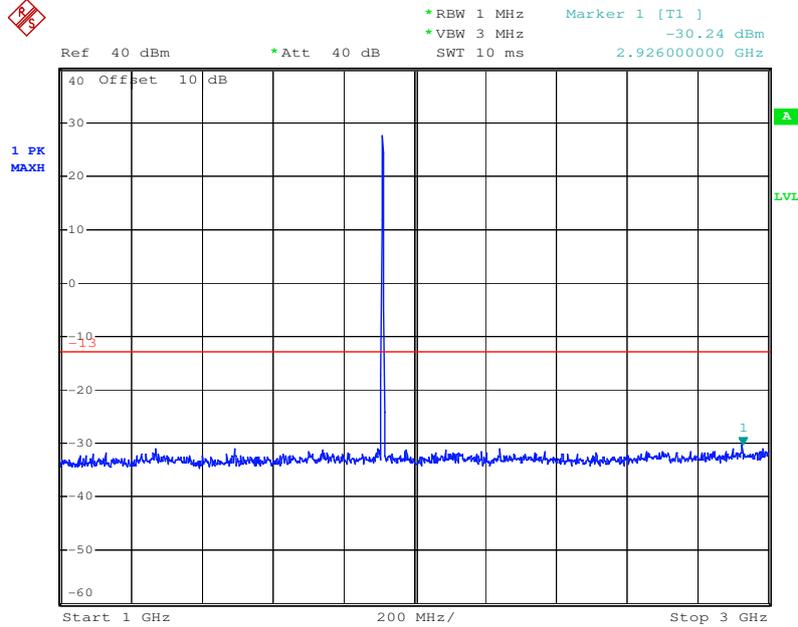
30MHz-1GHz:



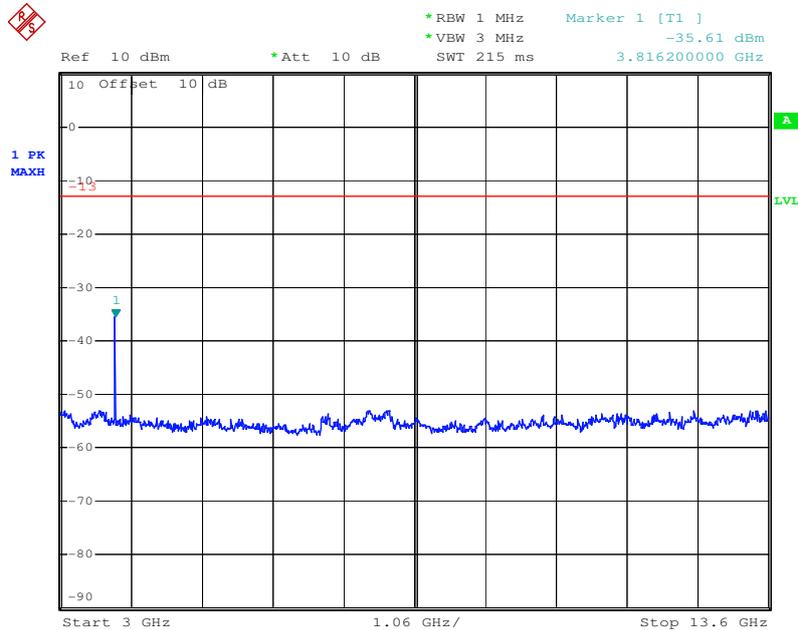
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1GHz-3GHz:

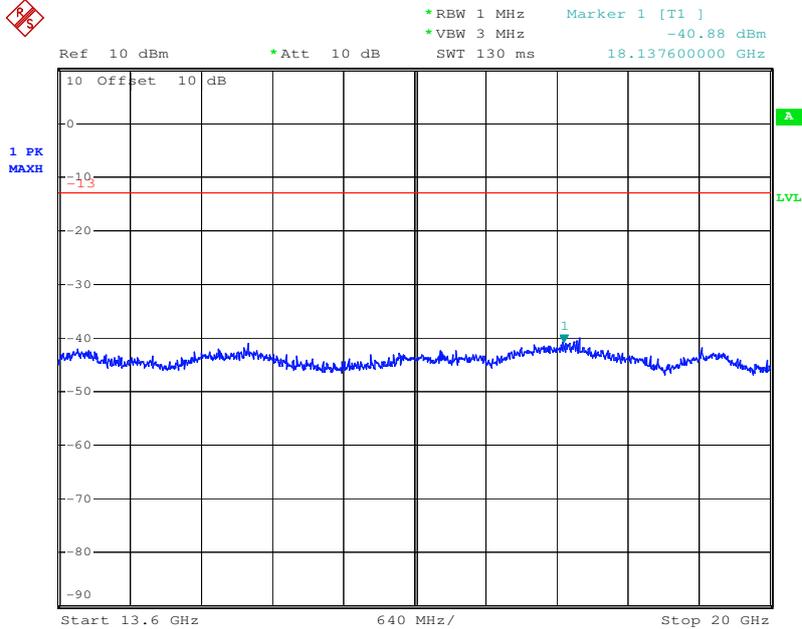


3GHz-13.6GHz:



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13.6GHz-20GHz:



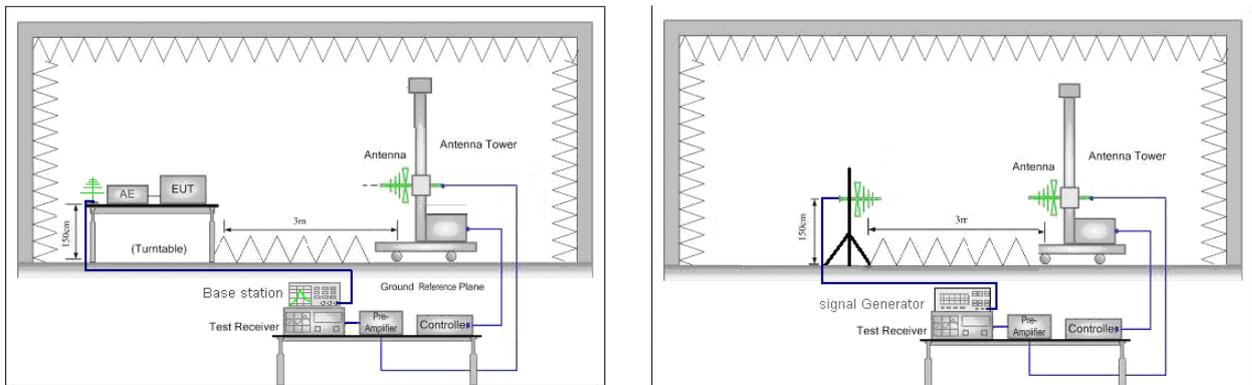
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7.6 Radiated Emission

Limit: Attenuated at least $43+10\log(P)$

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Test Setup:



- Test Procedure:**
- 1) EUT was placed on a 1.5meter high non – conductive table at a 3 meter test distance from the receive antenna. The height of receiving antenna is 1.5 m. The test setup refers to figure 1 above.
 - 2) Detected emissions were maximized at each frequency by rotating the table and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
 - 3) The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded.
 - 4) The EUT shall be replaced by a substitution antenna the test setup refers to figure 2 above.
 - 5) In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded. The Power of signal source (P_g) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.



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Technical Services
(Shanghai)Co., Ltd.**

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- 6) The test results are attain as described below:
Power(EIRP)=P_g – Cable loss + Antenna Gain
EIRP=ERP+2.15dB
 - 7) This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi)
 - 8) The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning with AC/DC adapter which it is worse case, only the test worst case mode is recorded in the report.
 - 9) Repeat above procedures until all frequencies measured was complete.
- Pretest under all modes; choose the worst case mode (Speech mode) record on the report. Please see the below test results.

Receiver Setup:

| Frequency | RBW | VBW |
|------------|---------|--------|
| 30MHz-1GHz | 100 kHz | 300kHz |
| Above 1GHz | 1MHz | 3MHz |

Test Results: Pass

Test Data:

Test mode: GSM 850 Test channel: Lowest/128 Operation Frequency 824.20MHz

| Frequency (MHz) | Polarization | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|-----------|-------------|-------------|
| 1648.00 | H | -23.38 | -13 | 10.38 |
| 3581.34 | H | -33.92 | -13 | 20.92 |
| 6506.00 | H | -36.44 | -13 | 23.44 |
| 1648.00 | V | -26.94 | -13 | 13.94 |
| 3631.31 | V | -37.45 | -13 | 24.45 |
| 5824.00 | V | -40.33 | -13 | 27.33 |

Test mode: GSM 850 Test channel: Middle/189 Operation Frequency 836.40MHz

| Frequency (MHz) | Polarization | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|-----------|-------------|-------------|
| 1674.00 | H | -25.3 | -13. | 12.3 |
| 3340.00 | H | -36.92 | -13 | 23.92 |
| 5806.00 | H | -34.44 | -13 | 21.44 |
| 1674.00 | V | -26.39 | -13 | 13.39 |
| 3340.00 | V | -32.23 | -13 | 19.23 |
| 5635.00 | V | -36.33 | -13 | 23.33 |

Test mode: GSM 850 Test channel: High/251 Operation Frequency 848.80MHz

| Frequency (MHz) | Polarization | ERP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|-----------|-------------|-------------|
| 1693.00 | H | -34.92 | -13. | 21.92 |
| 5752.00 | H | -43.94 | -13 | 30.94 |
| 1693.00 | V | -30.27 | -13 | 17.27 |

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| | | | | |
|---------|---|--------|------|-------|
| 5815.00 | V | -45.20 | -13 | 32.20 |
| 1693.00 | H | -34.92 | -13. | 21.92 |
| 5752.00 | H | -43.94 | -13 | 30.94 |

Test mode: PCS 1900 Test channel: Lowest/512 Operation Frequency 1850.20MHz

| Frequency (MHz) | Polarization | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|------------|-------------|-------------|
| 1867.36 | H | -38.08 | -13. | 25.08 |
| 3699.71 | H | -25.98 | -13 | 12.98 |
| 15263.00 | H | -34.20 | -13 | 21.20 |
| 1882.00 | V | -41.47 | -13 | 28.47 |
| 3702.28 | V | -28.21 | -13 | 15.21 |
| 15025.00 | V | -35.02 | -13 | 22.02 |

Test mode: PCS 1900 Test channel: Middle/661 Operation Frequency 1880.00MHz

| Frequency (MHz) | Polarization | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|------------|-------------|-------------|
| 3752.42 | H | -22.04 | -13. | 9.04 |
| 7929.48 | H | -35.75 | -13 | 22.75 |
| 13852.00 | H | -33.99 | -13 | 20.99 |
| 3754.75 | V | -24.78 | -13 | 11.78 |
| 7932.07 | V | -37.92 | -13 | 24.92 |
| 15399.00 | V | -33.58 | -13 | 20.58 |

Test mode: PCS 1900 Test channel: High/810 Operation Frequency 1909.80MHz

| Frequency (MHz) | Polarization | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|--------------|------------|-------------|-------------|
| 3816.31 | H | -28.99 | -13. | 15.99 |
| 8046.58 | H | -39.07 | -13 | 26.07 |
| 13852.00 | H | -35.64 | -13 | 22.64 |
| 3821.65 | V | -30.91 | -13 | 17.91 |
| 8033.47 | V | -40.95 | -13 | 27.95 |
| 15025.00 | V | -36.55 | -13 | 23.55 |

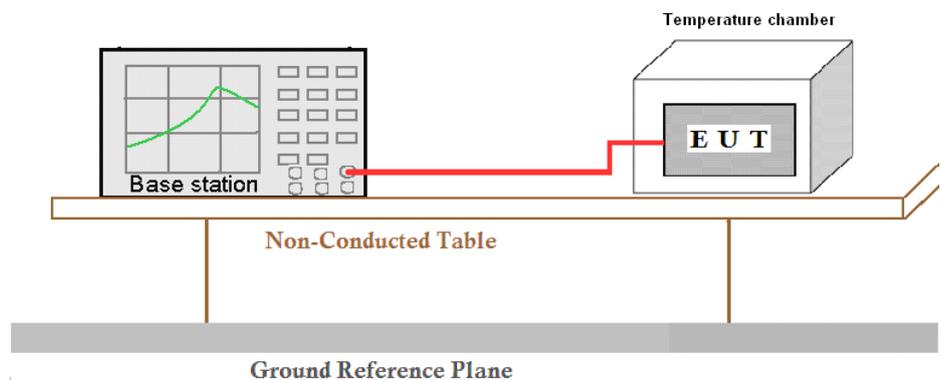
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7.7 Frequency stability

Limit:

| Operation Band | Frequency stability Limit(ppm) |
|----------------|--|
| GSM 850 | ±2.5ppm |
| PCS 1900 | The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. |

Test Setup:



Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The EUT was placed in the temperature chamber, the DC leads and RF output cable exited the chamber through an opening made for that purpose. After operating the equipment in standby conditions for 15 minutes before proceeding. The temperature was varied from -20°C to +50°C at intervals of not more than 10°C. The frequency stability was read from the base station at 25°C. The input voltage was varied +/-15%, the frequency stability and input voltage were recorded.

Test Results:

Pass

GSM 850:

| Condition | | Test Channel | | Frequency (Hz) | | Dev (ppm) | | Limit (ppm) | Result | |
|-------------|--------------|--------------|------------|----------------|------|-------------|--------------|-------------|--------|------|
| Voltage (V) | Temp (°C) | CH No. | Freq (MHz) | GSM | GPRS | GSM | GPRS | | | |
| Normal(3.7) | Norma(25) | 128 | 824.20 | 693 | 638 | 0.84 | 0.77 | ±2.5 | Pass | |
| | | 251 | 848.80 | -336 | -431 | -0.40 | -0.51 | | Pass | |
| | Extreme(-30) | 128 | 824.20 | 735 | 161 | 0.89 | 0.20 | | Pass | |
| | | 251 | 848.80 | 1008 | 242 | 1.19 | 0.29 | | Pass | |
| | Extreme(-20) | 128 | 824.20 | 420 | 331 | 0.51 | 0.40 | | Pass | |
| | | 251 | 848.80 | 315 | 588 | 0.37 | 0.69 | | Pass | |
| | Extreme(-10) | 128 | 824.20 | -357 | -213 | -0.43 | -0.26 | | Pass | |
| | | 251 | 848.80 | 882 | 594 | 1.04 | 0.70 | | Pass | |
| | Extreme(0) | 128 | 824.20 | 378 | 416 | 0.46 | 0.50 | | Pass | |
| | | 251 | 848.80 | 672 | 861 | 0.79 | 1.01 | | Pass | |
| | Extreme(10) | 128 | 824.20 | 231 | 293 | 0.28 | 0.36 | | Pass | |
| | | 251 | 848.80 | 210 | 714 | 0.25 | 0.84 | | Pass | |
| | Extreme(30) | 128 | 824.20 | -525 | -567 | -0.64 | -0.69 | | Pass | |
| | | 251 | 848.80 | 525 | 632 | 0.62 | 0.74 | | Pass | |
| | Extreme(40) | 128 | 824.20 | 336 | 433 | 0.41 | 0.53 | | Pass | |
| | | 251 | 848.80 | 651 | 205 | 0.77 | 0.24 | | Pass | |
| | Extreme(50) | 128 | 824.20 | 861 | 845 | 1.04 | 1.03 | | Pass | |
| | | 251 | 848.80 | -630 | -912 | -0.74 | -1.07 | | Pass | |
| | Extreme(3.4) | Norma(25) | 128 | 824.20 | 252 | 573 | 0.31 | | 0.70 | Pass |
| | Extreme(4.1) | | 251 | 848.80 | 462 | 729 | 0.54 | | 0.86 | Pass |
| 128 | | | 824.20 | 546 | 108 | 0.66 | 0.13 | Pass | | |
| 251 | | | 848.80 | 504 | 714 | 0.59 | 0.84 | Pass | | |

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PCS1900:

| Condition | | Test Channel | | Delta (Hz) | | Freq (MHz) | | Limit (ppm) | Result | |
|-------------|--------------|--------------|------------|------------|------|------------|-----------|------------------------|-----------|------|
| Voltage (V) | Temp (°C) | CH No. | Freq (MHz) | GSM | GPRS | GSM | GPRS | | | |
| Normal(3.7) | Norma(25) | 512 | 1850.20 | 777 | 752 | 1850.2008 | 1850.2008 | Within frequency block | Pass | |
| | | 810 | 1909.80 | 483 | 564 | 1909.8005 | 1909.8006 | | Pass | |
| | Extreme(-30) | 512 | 1850.20 | -399 | 443 | 1850.1996 | 1850.2004 | | Pass | |
| | | 810 | 1909.80 | -735 | -658 | 1909.7993 | 1909.7993 | | Pass | |
| | Extreme(-20) | 512 | 1850.20 | 546 | 549 | 1850.2005 | 1850.2005 | | Pass | |
| | | 810 | 1909.80 | -357 | -324 | 1909.7996 | 1909.7997 | | Pass | |
| | Extreme(-10) | 512 | 1850.20 | -924 | -731 | 1850.1991 | 1850.1993 | | Pass | |
| | | 810 | 1909.80 | 693 | 528 | 1909.8007 | 1909.8005 | | Pass | |
| | Extreme(0) | 512 | 1850.20 | -567 | 578 | 1850.1994 | 1850.2006 | | Pass | |
| | | 810 | 1909.80 | 1008 | 902 | 1909.8010 | 1909.8009 | | Pass | |
| | Extreme(10) | 512 | 1850.20 | 483 | 429 | 1850.2005 | 1850.2004 | | Pass | |
| | | 810 | 1909.80 | -861 | 835 | 1909.7991 | 1909.8008 | | Pass | |
| | Extreme(30) | 512 | 1850.20 | 693 | 765 | 1850.2007 | 1850.2008 | | Pass | |
| | | 810 | 1909.80 | 546 | 479 | 1909.8005 | 1909.8005 | | Pass | |
| | Extreme(40) | 512 | 1850.20 | 378 | 358 | 1850.2004 | 1850.2004 | | Pass | |
| | | 810 | 1909.80 | 903 | 867 | 1909.8009 | 1909.8009 | | Pass | |
| | Extreme(50) | 512 | 1850.20 | -693 | 733 | 1850.1993 | 1850.2007 | | Pass | |
| | | 810 | 1909.80 | 504 | 557 | 1909.8005 | 1909.8006 | | Pass | |
| | Extreme(3.4) | Norma(25) | 512 | 1850.20 | 630 | 425 | 1850.2006 | | 1850.2004 | Pass |
| | Extreme(4.1) | | 810 | 1909.80 | 567 | 520 | 1909.8006 | | 1909.8005 | Pass |
| 512 | | | 1850.20 | 630 | 469 | 1850.2006 | 1850.2005 | Pass | | |
| 810 | | | 1909.80 | 567 | 582 | 1909.8006 | 1909.8006 | Pass | | |

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8 Test Setup Photographs

Refer to the < CS299B-A _Test Setup photos>.

9 EUT Constructional Details

Refer to the < CS299B-A _External Photos > & < CS299B-A _Internal Photos >.

--End of the Report--