

FCC TEST REPORT

for

47 CFR Part 24E

Equipment : **GSM/GPRS Mobile Phone**

Model No. : **TG9A / XG988**

FCC ID : **GKRTG9A**

Filing Type : **Certification**

Applicant : **Compal Electronics, Inc.**
No. 581, Juikuang Rd., Neihu, Taipei, (114) Taiwan,
R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.
- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL : 886-2-2696-2468

FAX : 886-2-2696-2255

FCC ID GKRTG9A

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Issued Date July 12,2004

The applicant has been cautioned as to the following:

15.21 Information to User.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

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FCC TEST REPORT

Report No. : F462921

Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a) Test Report

b) Laboratory: Sporton International Inc.
No.52, Hwa-Ya 1st RD., Hwa Ya Technology Park, Kwei-Shan
Hsiang, TaoYuan Hsien, Taiwan, R.O.C.

c) Report Number: F462921

d) Client: Compal Electronics, Inc.
No. 581, Juikuang Rd., Neihu, Taipie, (114) Taiwan, R.O.C.

e) Identification: Model Name: TG9A / XG988
FCC ID : GKRTG9A
Description: GSM 1900 Radio

f) EUT Condition: Not required unless specified in individual tests.

g) Report Date: July 12, 2004
EUT Received: June 30, 2004

h, j, k): As indicated in individual tests.

i) Sampling method: No sampling procedure used.

l) Uncertainty: In accordance with Sporton internal quality manual.

m) Supervised by:


Hendry Yang

n) Results: The results presented in this report relate only to the item tested.

o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.

Accessories Used During Testing:

| Type | Model |
|----------|---------------|
| EUT | TG9A XG988 |
| Earpiece | N/A |

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| | |
|-------------|---------------|
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| Issued Date | July 12, 2004 |

List of General Information Required for Certification

In Accordance with FCC Rules and Regulations,
Volume II, Part 2 and
24E, Confidentiality

Sub-Part 2.1033**(c)(1): Name and Address of Applicant:**

Compal Electronics, Inc.
No. 581, Juikuang Rd., Neihu, Taipei, (114)
Taiwan, R.O.C.

Manufacturer

Compal Electronics, Inc.
No. 581, Juikuang Rd., Neihu, Taipei, (114)
Taiwan, R.O.C.

(c)(2): FCC ID: GKRTG9A

Model Number: TG9A / XG988

(c)(3): Instruction Manual(s):

Please See Attached Exhibits

(c)(4): Type of Emission: 300 KGXW

(c)(5): FREQUENCY RANGE, MHz: 1850.2 to 1909.8

(c)(6): Power Rating, Watts: 0.776 (conducted)
0.519 (EIRP)
x Switchable Variable N/A

(c)(7): Maximum Power Rating, Watts: 1

Subpart 2.1033 (continued)

(c)(8): Voltages & Currents in All Elements in Final RF Stage, Including Final Transistor or Solid State Device:

Collector Current, A = 0.5
Collector Voltage, Vdc = 3.6
Supply Voltage, Vdc = 3.6

(c)(9): **Tune-Up Procedure:**

Please See Attached Exhibits

(c)(10): **Circuit Diagram/Circuit Description:**

Please See Attached Exhibits

(c)(11): **Label Information:**

Please See Attached Exhibits

(c)(12): **Photographs:**

Please See Attached Exhibits

(c)(13): **Digital Modulation Description:**

☐ Attached Exhibits
☒ N/A

(c)(14): **Test and Measurement Data:**

Follows

**Testimonial
and
Statement of Certification**

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certified by:



Daniel Lee
Manager

Certificate of NVLAP Accreditation

| | |
|---|--|
| United States Department of Commerce National Institute of Standards and Technology | |
| NVLAP [®] | |
| ISO/IEC 17025:1999 ISO 9002:1994 | Certificate of Accreditation |
| SPORTON INTERNATIONAL, INC. TAIPEI HSIEN 221 TAIWAN | |
| <i>is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:</i> | |
| ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS | |
| December 31, 2004 Effective through |  For the National Institute of Standards and Technology NVLAP Lab Code: 200079-0 |

NVLAP-01C (06-01)

Sub-part

2.1033(c)(14): Test and Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2, Sub-part J, Sections 2.947, 2.1033(c), 2.1041, 2.1046, 2.1047, 2.1079, 2.1051, 2.1053, 2.1055, 2.1057 and the following individual Parts:

- 22 – Public Mobile Services
- 22 Subpart H - Cellular Radiotelephone Service
- x 24 – Personal Communications Services

General Information

| Product Feature & Specification | |
|------------------------------------|---------------------------------|
| 1. Type of Modulation | GMSK |
| 2. Number of Channels | GSM 1900 : 512 to 810 |
| 3. Frequency Band , MHz | Tx:: 1850-1910 Rx: 1805-1880 |
| 4. Channel Spacing | 200 KHz |
| 5. Maximum Output Power to Antenna | 29 dBm |
| 6. HW Version | 1.0 |
| 7. SW Version | 22.31.1125 |
| 8. Antenna Type | Fixed Internal Antenna |

Standard Test Conditions**and****Engineering Practices**

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with TIA603, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

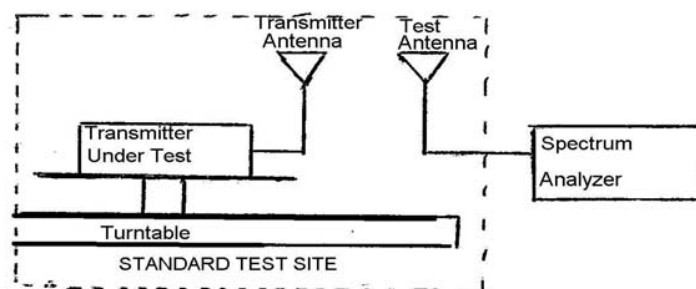
Name of Test: EIRP Carrier Power (Radiated)

Specification: TIA/EIA 603A (Substitution Method)

Definition: The average radiated power of device is the equivalent power required, when delivered to a substitution antenna, to produce at a distant point the same average received power as produced by the licensed device.

Method Of Measurement:

a) Connect the equipment as illustrated. Place the transmitter to be tested on the turntable in the standard test site.



b) Raise and lower the test antenna from 1m to 4m and rotate turntable from 0° to 360°. Record the highest received signal showed in spectrum analyzer as R_t . Calculate electric field strength in receive antenna as E_t .

$$E_t = R_t + AF$$

AF (dB/m): Receive Antenna Factor

c) Replace the transmitter under test with a substitution antenna. The center of the antenna should be at the same location as the transmitter under test. Connect the antenna to a signal generator with a known output power level P_s . Raise and lower the test antenna like in step b) and record the highest received signal showed in spectrum analyzer as R_s . Calculate electric field strength in receive antenna as E_s .

$$E_s = R_s + AF$$

AF (dB/m): Receive Antenna Factor

d) Calculate radiated power as following:

$$EIRP = P_s + E_t - E_s + G_s$$

P_s (dBm): Input Power to Substitution Antenna

G_s (dBi) : Substitution Antenna Gain

Results Attached

Tim Kao

Tested By:

Tim Kao

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Test Results For: EIRP Carrier Power (Radiated)**Conducted Power**

| Bands | Channel | Frequency (MHz) | Conducted Power (dBm) | Conducted Power (Watts) |
|----------|---------|-----------------|-----------------------|-------------------------|
| GSM 1900 | 512 | 1850.2 (Low) | 28.9 | 0.776 |
| | 661 | 1880.0 (Mid) | 28.7 | 0.741 |
| | 810 | 1909.8 (High) | 28.3 | 0.676 |

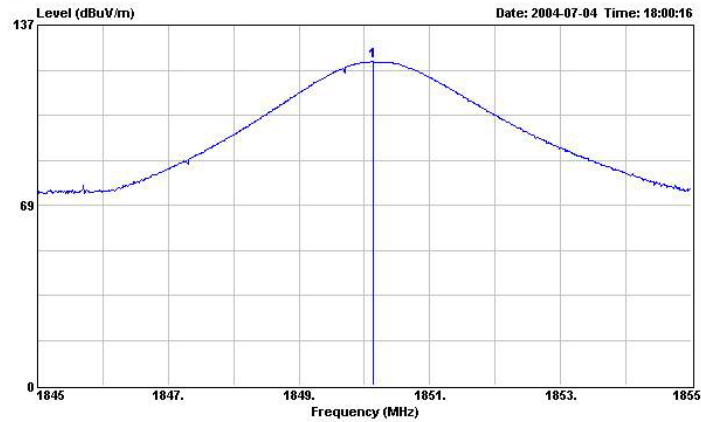
EIRP

| Freq MHz | Pol | Substitution Antenna Input Power (dBm) | Substitution Antenna Gain (dBi) | Et (dBuV/m) | Es (dBuV/m) | Et - Es (dB) | Radiated Power (dBm) | Radiated Power (Watts) |
|----------|-----|--|---------------------------------------|----------------|----------------|-----------------|----------------------------|------------------------------|
| 1850.27 | H | -3.76 | 6.64 | 123.05 | 101.70 | 21.35 | 24.24 | 0.265 |
| 1880.07 | H | -3.78 | 6.65 | 123.65 | 101.64 | 22.01 | 24.88 | 0.308 |
| 1909.87 | H | -3.81 | 6.66 | 121.98 | 101.58 | 20.40 | 23.25 | 0.212 |
| 1850.15 | V | -3.76 | 6.64 | 125.97 | 101.70 | 24.27 | 27.16 | 0.519 |
| 1879.90 | V | -3.78 | 6.65 | 124.91 | 101.64 | 23.27 | 26.14 | 0.411 |
| 1909.83 | V | -3.81 | 6.66 | 122.28 | 101.58 | 20.70 | 23.55 | 0.227 |

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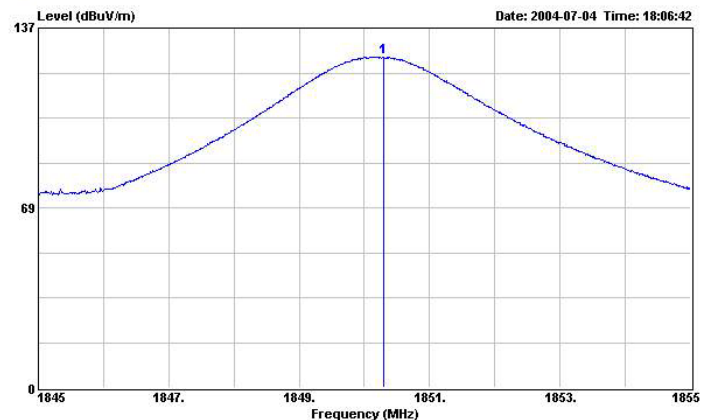
GSM 1900 CH512 Horizontal Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 HORIZONTAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 512

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|-------|-------|-------|--------|--------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | Pos | Pos |
| 1 | 1850.140 | 123.05 | ----- | 95.03 | 26.53 | 1.49 | 0.00 | Peak | --- | --- |

GSM 1900 CH512 Vertical Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 VERTICAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 512

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|-------|-------|-------|--------|--------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | Pos | Pos |
| 1 | 1850.300 | 125.97 | ----- | 97.95 | 26.53 | 1.49 | 0.00 | Peak | --- | --- |

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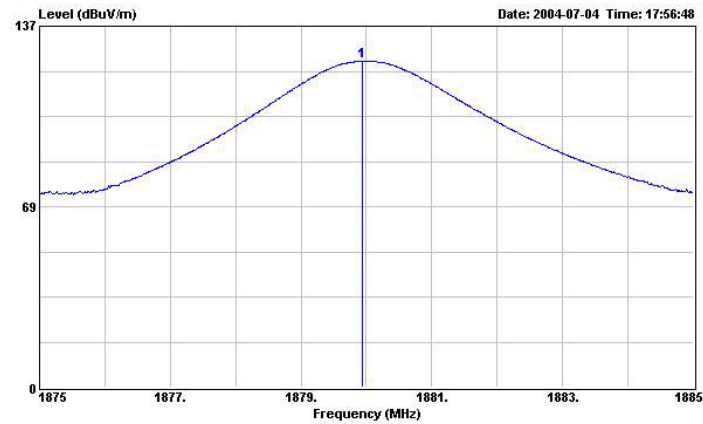
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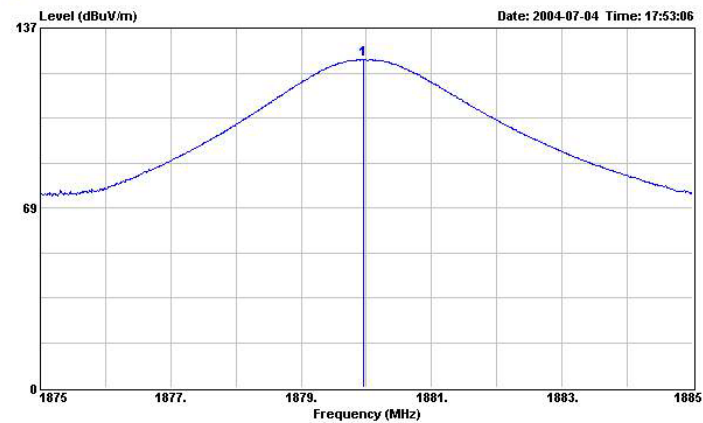
GSM 1900 CH661 Horizontal Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 HORIZONTAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 661

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table |
|---|----------|--------|-------|--------|-------|--------|-------|--------|--------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 1879.940 | 123.65 | ----- | ----- | 95.49 | 26.66 | 1.50 | 0.00 | Peak | --- | --- |

GSM 1900 CH661 Vertical Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 VERTICAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 661

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table |
|---|----------|--------|-------|--------|-------|--------|-------|--------|--------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 1879.950 | 124.91 | ----- | ----- | 96.75 | 26.66 | 1.50 | 0.00 | Peak | --- | --- |

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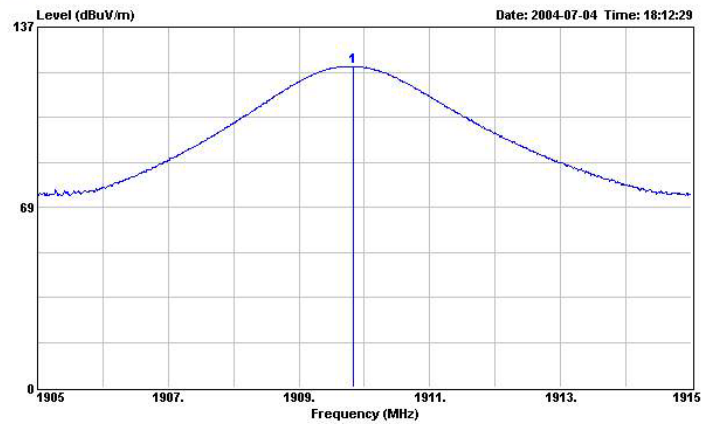
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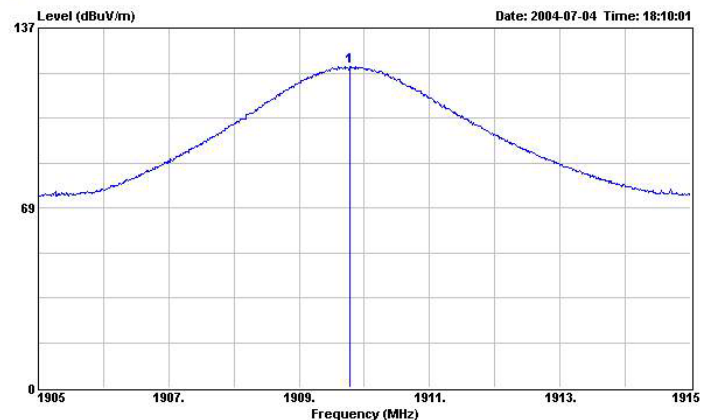
GSM 1900 CH810 Horizontal Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 HORIZONTAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 810

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|-------|-------|-------|--------|--------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | Pos | Pos |
| 1 | 1909.830 | 121.98 | ----- | 93.70 | 26.78 | 1.50 | 0.00 | Peak | --- | --- |

GSM 1900 CH810 Vertical Polarization



Site : 03CH03-HY
Condition : 3m HORN-ANT-6821 VERTICAL
EUT : GSM/GPRS Dual Band Handset
Power : 120Vac/60Hz
Model : TG9A
Memo : PCS Link Mode; CH 810

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|-------|-------|-------|--------|--------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | Pos | Pos |
| 1 | 1909.780 | 122.28 | ----- | 94.00 | 26.78 | 1.50 | 0.00 | Peak | --- | --- |

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July 12, 2004

Name of Test: Transmitter Conducted Measurements

Specification: 47 CFR 2.1051: Unwanted (spurious) Emissions
2.1049(c), 24.238(b): Occupied Bandwidth
24: Emissions at Band Edges

Test Equipment: As per attached page

Measurement Procedure

1. The EUT and test equipment were set up as shown on the following page with the Spectrum Analyzer connected.
2. The low and high channels for all RF powers within the transmitting frequency band were measured.
3. Measurement Results: Attached



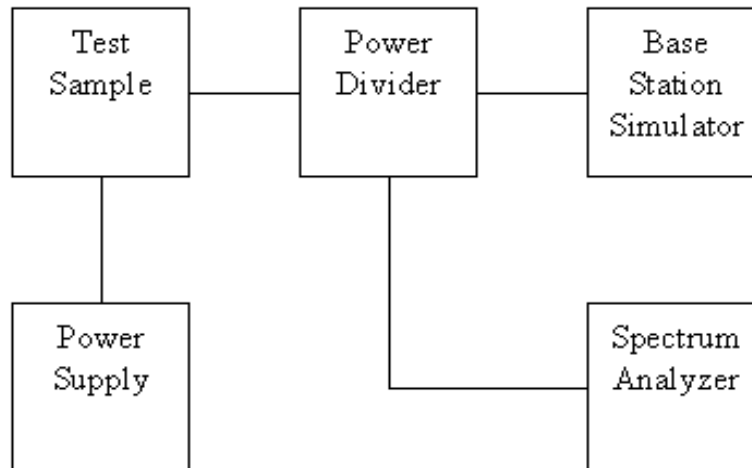
Tested By:

Tim Kao

Transmitter Spurious Emission

Test A. Occupied Bandwidth (In-Band Spurious)

Test B. Out-of-Band Spurious

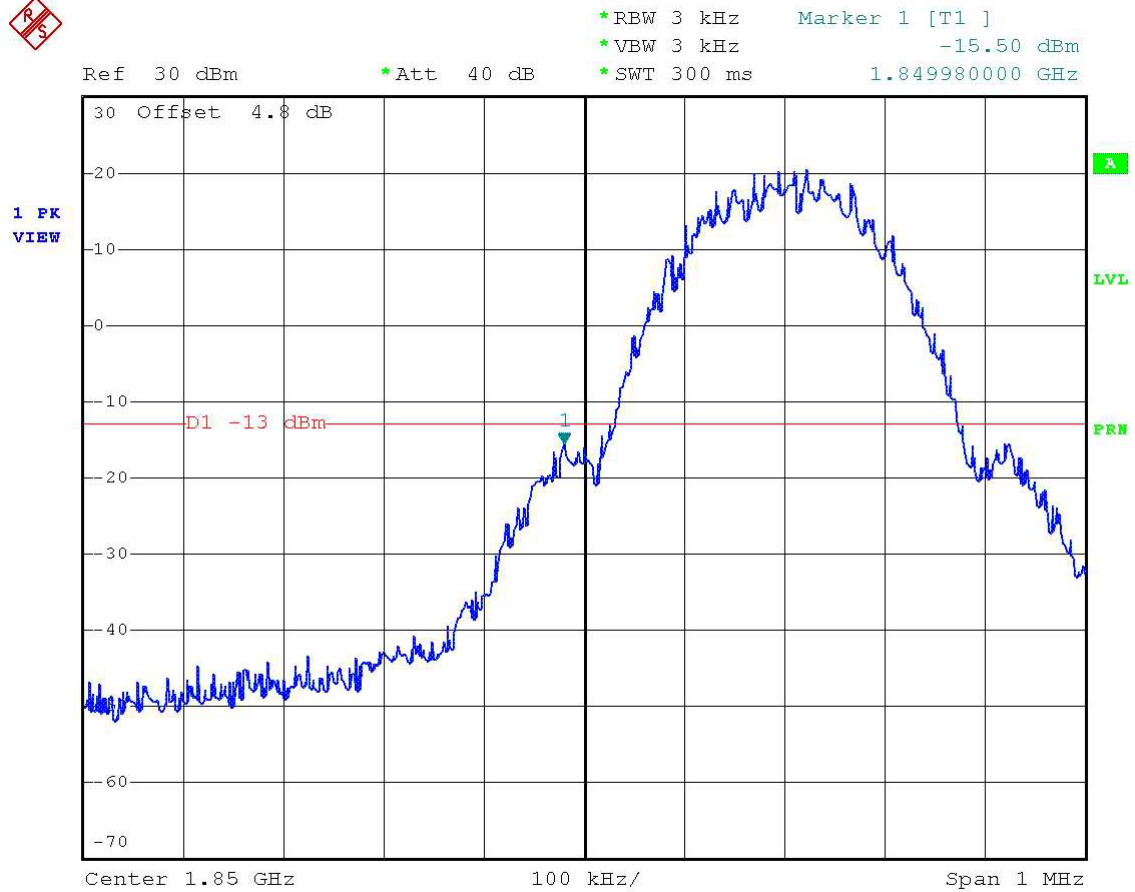


| Asset | Model Name | S/N |
|------------------------|------------|------------|
| Base Station Simulator | CMU200 | 102278 |
| Base Station Simulator | E5515C | GB43460754 |
| Spectrum Analyzer | FSP30 | 838858/014 |
| AC/DC Power Source | HPA-500W | HPA0100024 |

FCC TEST REPORT

Report No. : F462921

Name of Test: Emission Masks (Occupied Bandwidth)
State 2:High Power



Power: HIGH
Modulation: GSM 1900
LOWER BAND EDGE

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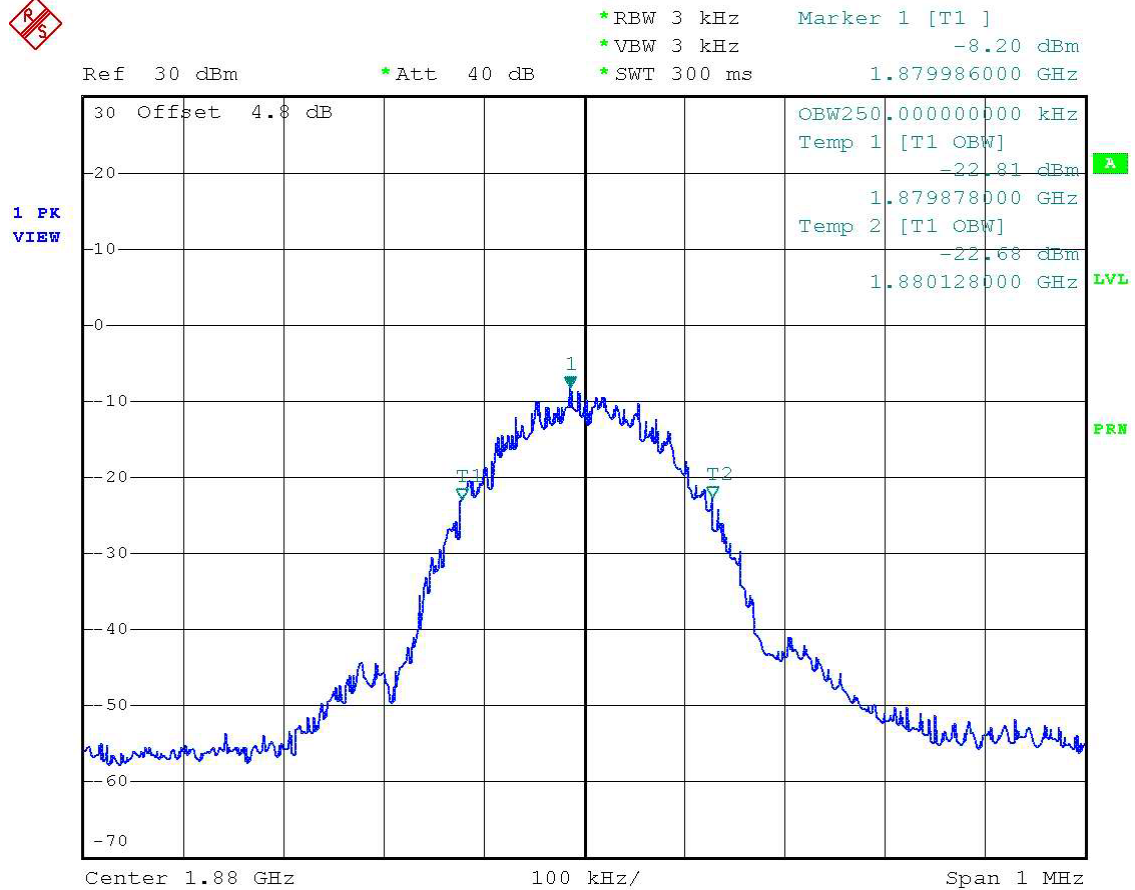
FCC ID GKRTG9A
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FCC TEST REPORT

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Name of Test: Emission Masks (Occupied Bandwidth)

State 1:Low Power



Power: LOW
Modulation: GSM 1900
99% BANDWIDTH

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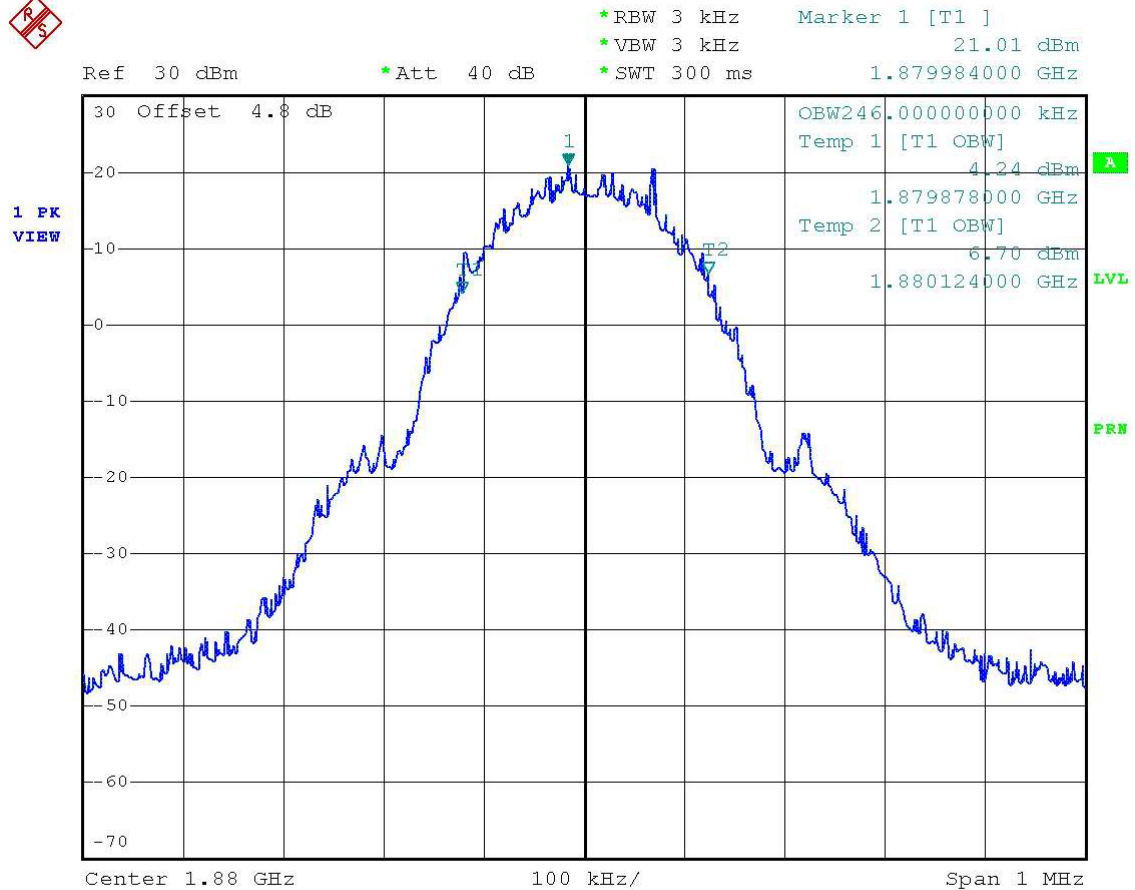
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FCC TEST REPORT

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Name of Test: Emission Masks (Occupied Bandwidth)
State 2:High Power



Power: HIGH
Modulation: GSM 1900
99% BANDWIDTH

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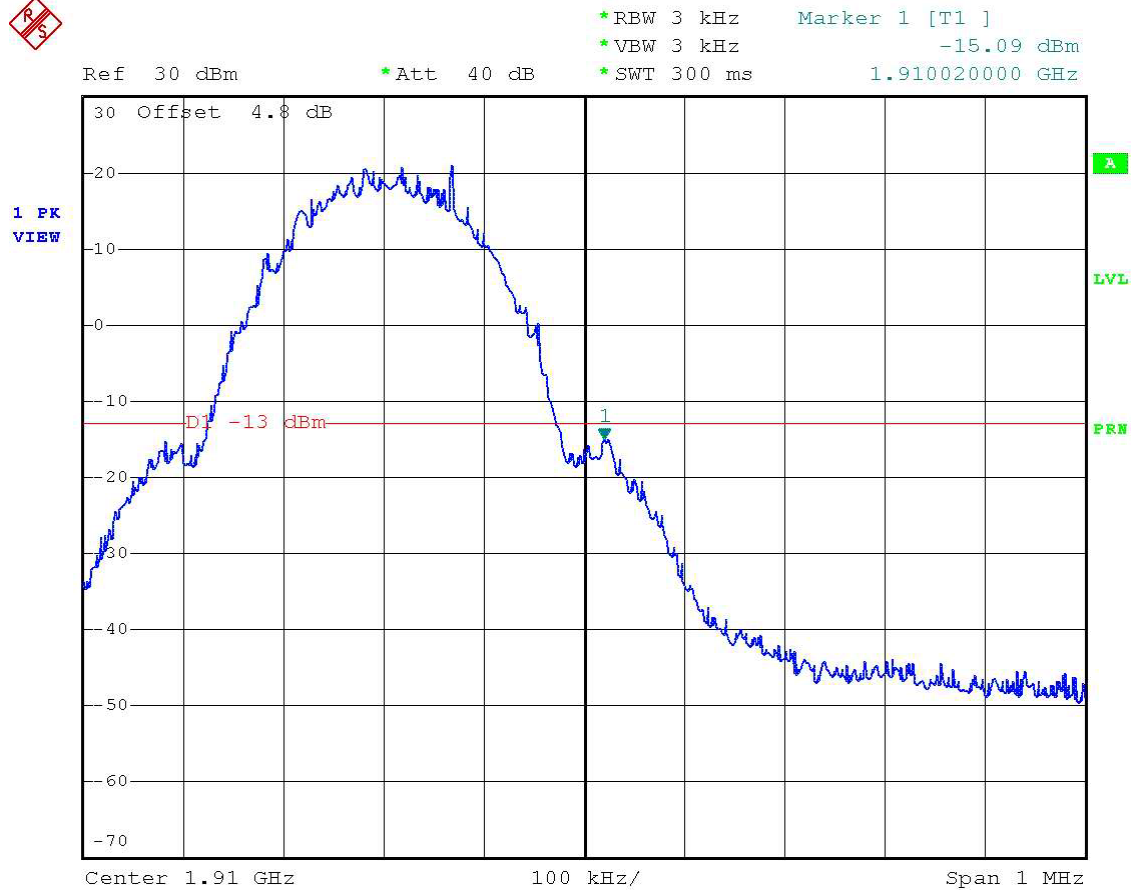
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FCC TEST REPORT

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Name of Test: Emission Masks (Occupied Bandwidth)
State 2: High Power



Power: HIGH
Modulation: GSM 1900
UPPER BAND EDGE

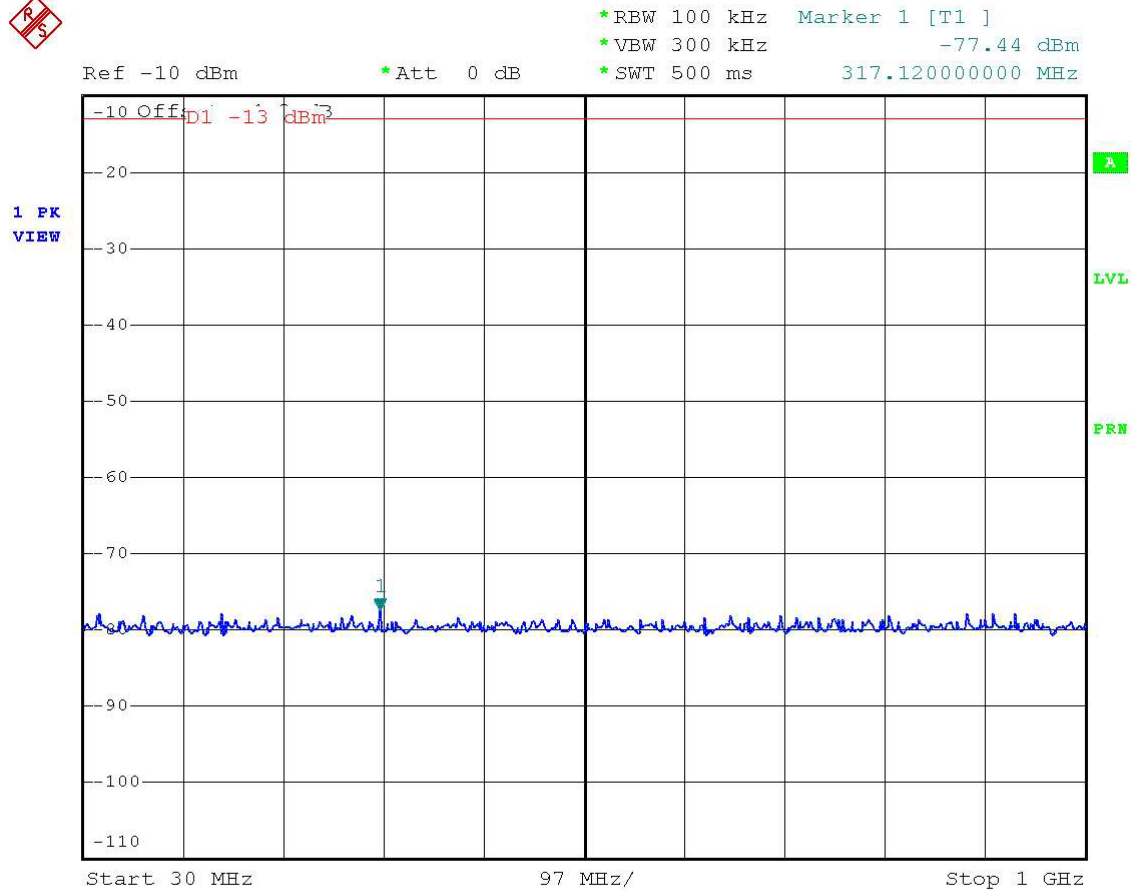
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Report No. : F462921

Name of Test: Conducted Spurious Emission
30M-1G



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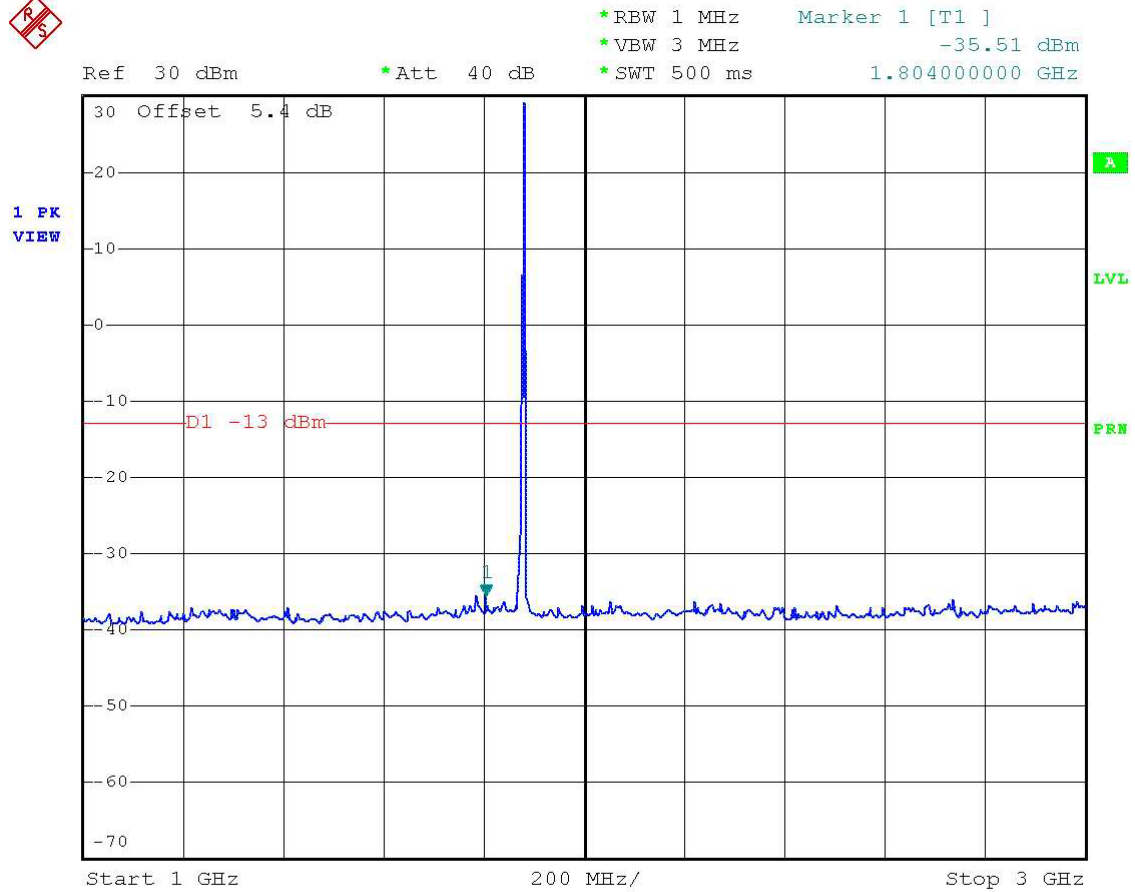
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Name of Test: Conducted Spurious Emission
1G-3G



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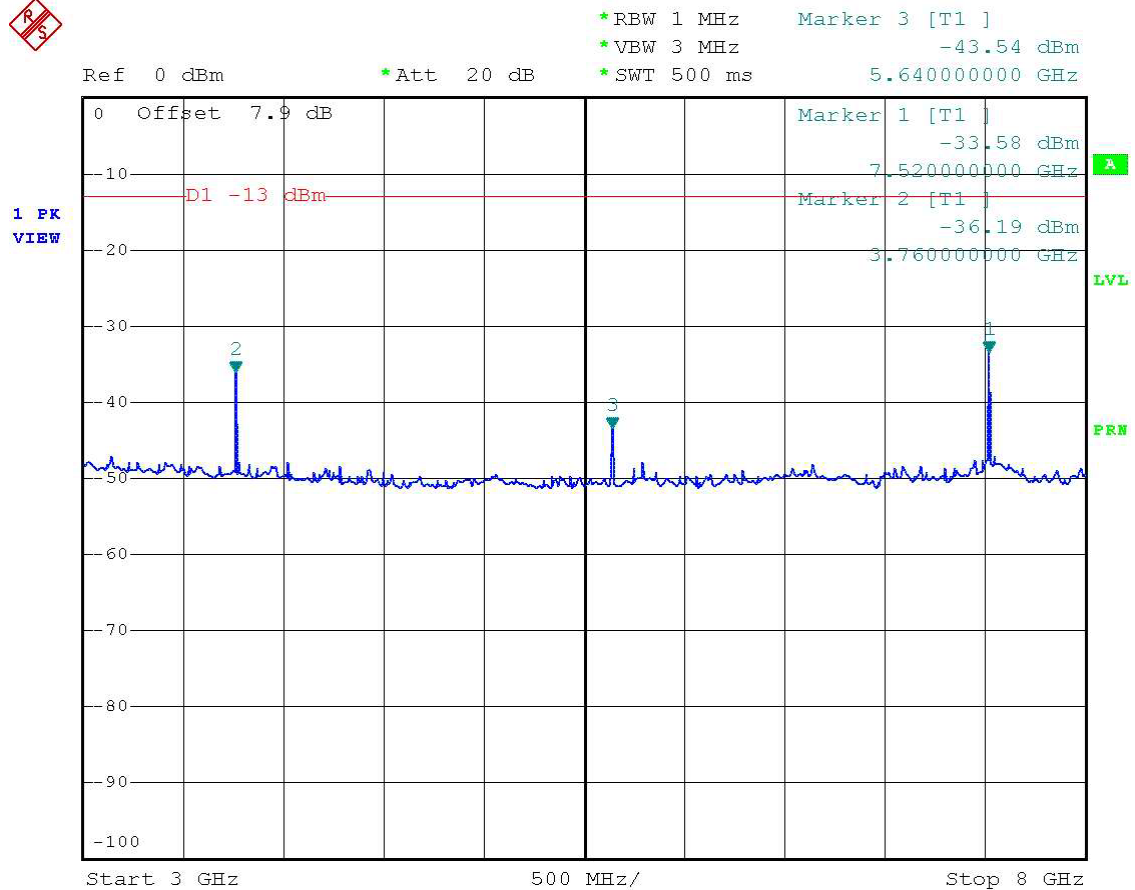
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Report No. : F462921

Name of Test: Conducted Spurious Emission
3G-8G



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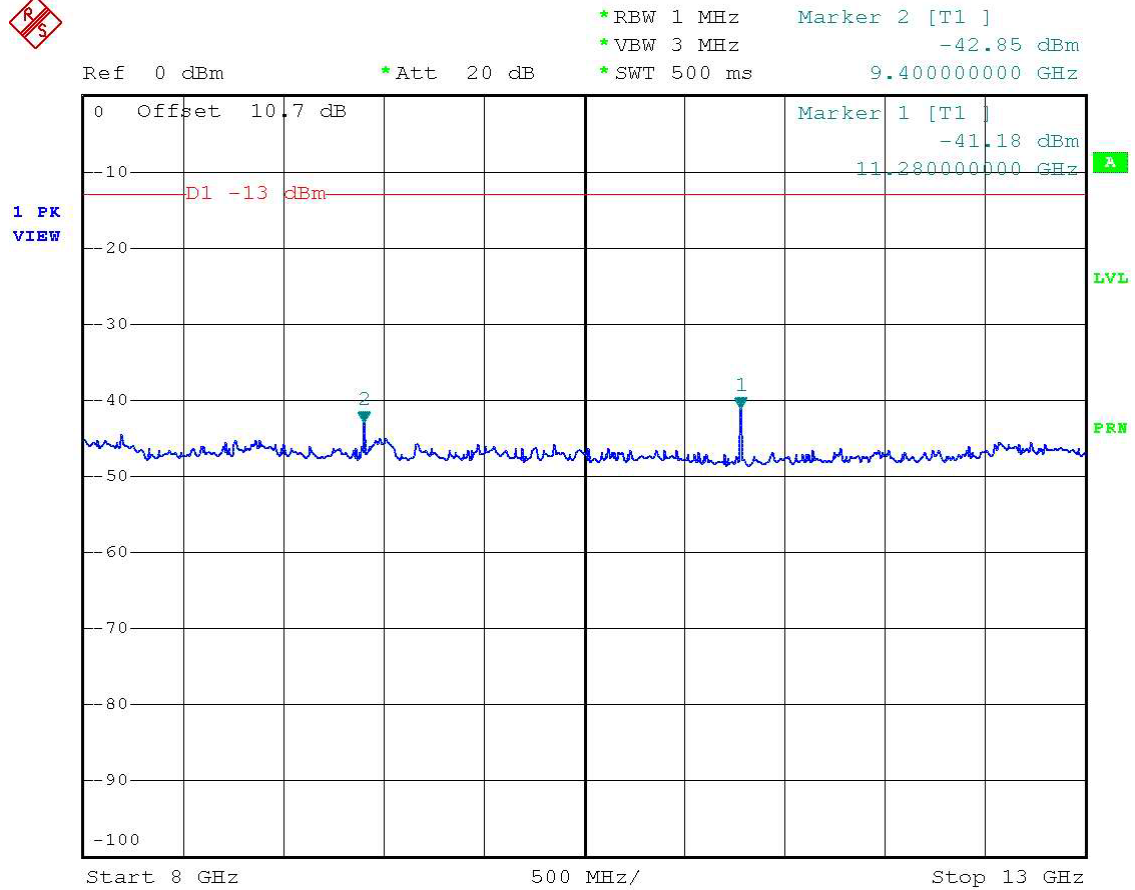
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Name of Test: Conducted Spurious Emission
8G-13G



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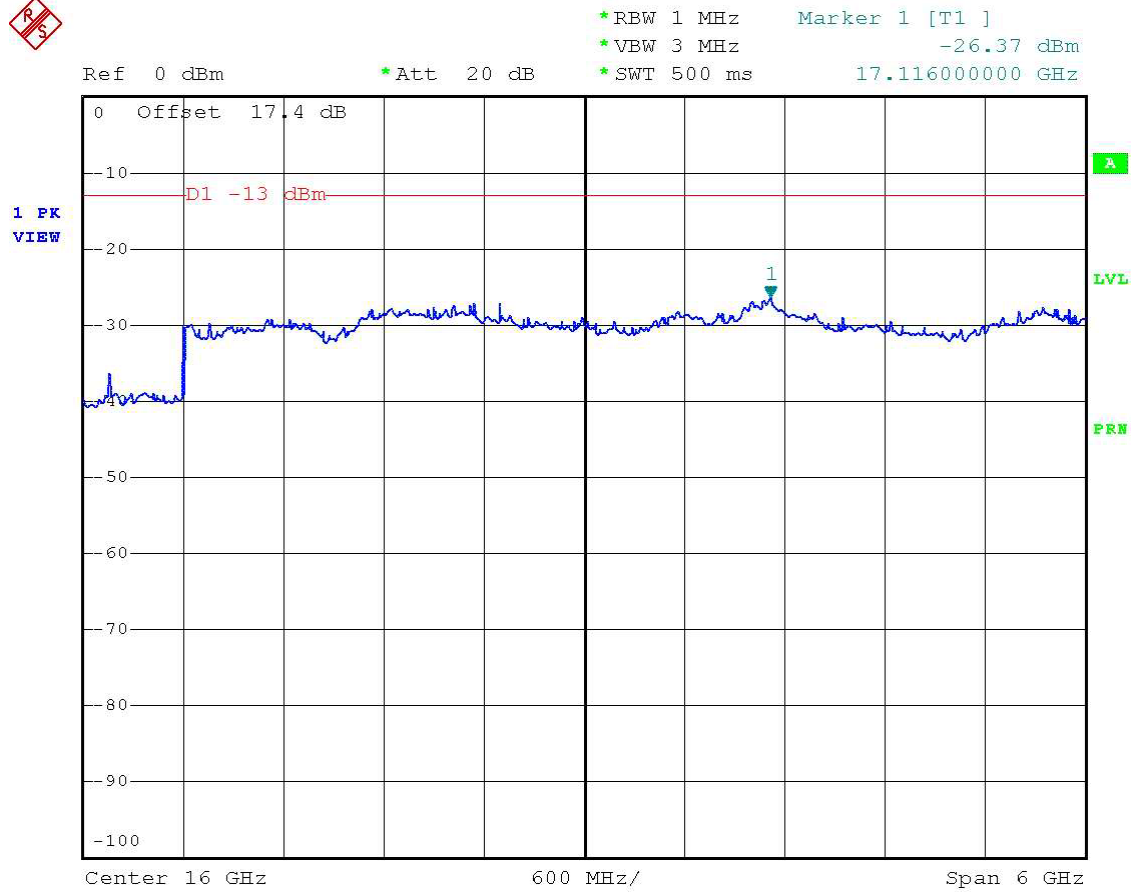
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Report No. : F462921

Name of Test: Conducted Spurious Emission
13G-19G



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Name of Test: Field Strength of Spurious Radiation

Specification: 47 CFR 2.1053(a)

Guide: ANSI/TIA/EIA-603-1992/2001, Paragraph 1.2.12 and Table 16

Measurement Procedure

1.2.12.1 Definition: Radiated spurious emissions are emissions from the equipment when transmitting into a non-radiating load on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

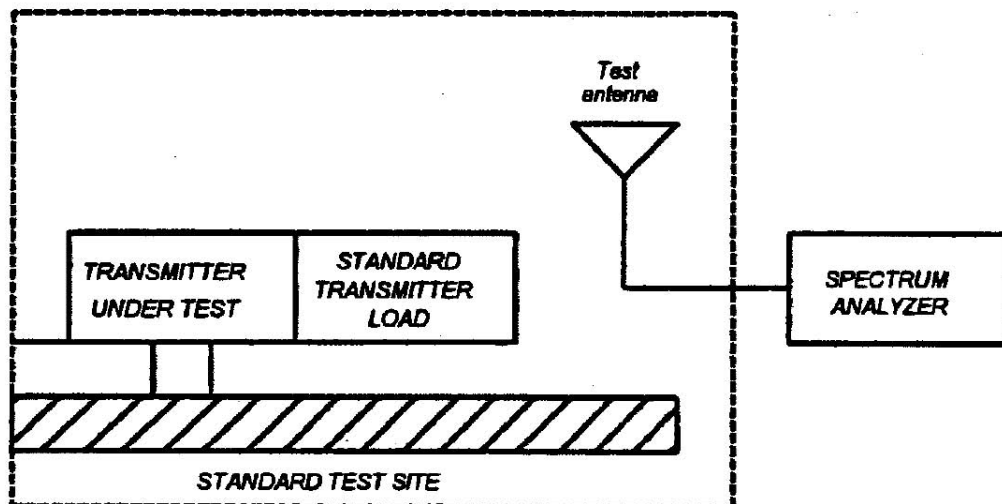
1.2.12.2 Method of Measurement

A) Connect the equipment as illustrated

B) Adjust the spectrum analyzer for the following settings:

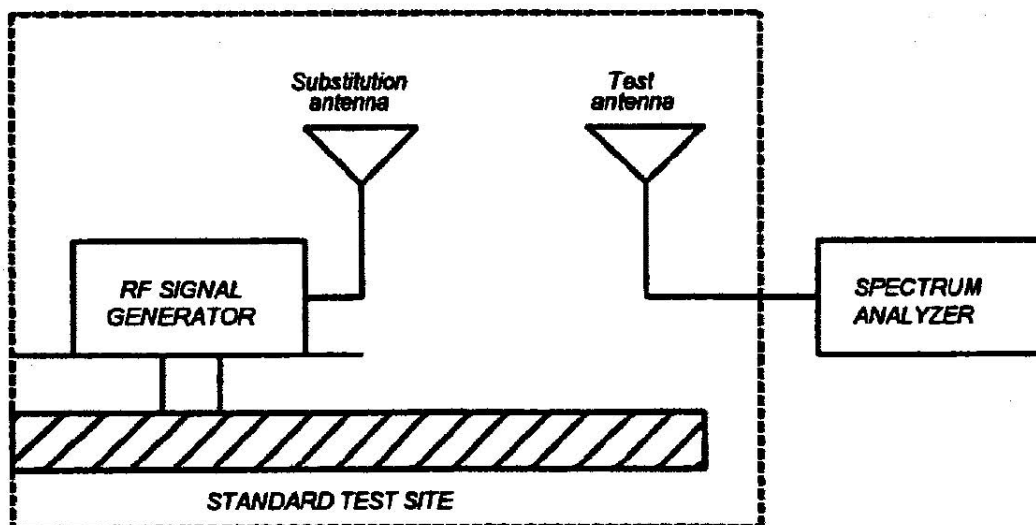
- 1) Resolution Bandwidth 100 kHz (<1 GHz), 1 MHz (> 1GHz).
- 2) Video Bandwidth ≥ 3 times Resolution Bandwidth
- 3) Sweep Speed ≤ 2000 Hz/second
- 4) Detector Mode = Mean or Average Power

C) Place the transmitter to be tested on the turntable in the standard test site. If the antenna is detachable, The transmitter is transmitting into a non-radiating load which is placed on the turntable. The RF cable to this load should be of minimum length.



Name of Test: Field Strength of Spurious Radiation (Cont.)

- D) For each spurious measurement the test antenna should cover the measured frequency. Measurements shall be made from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier, except for the region close to the carrier equal to \pm the test bandwidth (see section 1.3.4.4).
- E) For each spurious frequency, raise and lower the test antenna from 1 m to 4 m to obtain a maximum reading on the spectrum analyzer with the test antenna at horizontal polarity. Repeat this procedure to obtain the highest possible reading. Record this maximum reading.
- F) Repeat step E) for each spurious frequency with the test antenna polarized vertically.



- G) Reconnect the equipment as illustrated.
- H) Keep the spectrum analyzer adjusted as in step B).
- I) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter. At lower frequencies, where the substitution antenna is very long, this will be impossible to achieve when the antenna is polarized vertically. In such case the lower end of the antenna should be 0.3 m above the ground.

Name of Test: Field Strength of Spurious Radiation (Cont.)

- J) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.
- K) Repeat step J) with both antennas vertically polarized for each spurious frequency.
- L) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps J) and K) by the power loss in the cable between the generator and the antenna and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna.

NOTE: It is permissible that other antennas provided can be referenced to a dipole.



Tested By:

Tim Kao