

TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Danger Inc.
Turner GSM-1900 Mobile Phone with Colour PDA

To: FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Test Report Serial No: RFI/MPTB1/RP44198JD01A

| This Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director: | Checked By: |
|---|--|
| Marrim. | Marrin. |
| Tested By: | Release Version No: PDF01 |
| Admide a | |
| Issue Date: 23 January 2003 | Test Dates: 04 December 2002 to 19 December 2002 |

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1. Client Information

| Company Name: | Danger, Inc |
|---------------|--|
| Address: | 124 University Avenue. Palo Alto, CA 94301 USA |
| Contact Name: | Marcus Wallgren |

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2. Equipment Under Test (EUT)

The following information has been supplied by the client:

2.1. Identification Of Equipment Under Test (EUT)

| Brand Name: | Danger |
|-----------------------------|----------------------|
| Model Name or Number: | Turner |
| Unique Type Identification: | Not Stated by Client |
| IMEI Number: | *001028000035010 |
| Country of Manufacture: | MALAYSIA |
| FCC ID Number: | P5J-SKCA |
| Date of Receipt: | 03 December 2002 |

*Note: This sample was used for Radiated testing only:

| Brand Name: | Danger |
|-----------------------------|----------------------|
| Model Name or Number: | Turner |
| Unique Type Identification: | Not Stated by Client |
| IMEI Number: | *001028000034960 |
| Country of Manufacture: | MALAYSIA |
| FCC ID Number: | P5J-SKCA |
| Date of Receipt: | 03 December 2002 |

^{*}Note: This sample was used for conducted testing only:

Accessories Tested With The EUT

| Description: | Digital Camera |
|------------------------|----------------------------|
| Brand Name: | Kyocera |
| Model Name or Number: | 8CF-BA |
| Serial Number: | Not Stated by Client |
| FCC ID Number: | Not Stated by Client |
| Cable Length And Type: | Not Stated by Client |
| Connected to Port: | Headset (Jack Plug socket) |

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Accessories Tested With The EUT (continued)

| Description: | USB Cable |
|------------------------|----------------------|
| Brand Name: | Total Tech. Limited |
| Model Name or Number: | TTL-MNIB-1.8M-BK |
| Serial Number: | Not Stated by Client |
| FCC ID Number: | Not Stated by Client |
| Cable Length And Type: | 180 cm |
| Connected to Port: | USB Downlink Port |

| Description: | Battery Recharger |
|------------------------|--------------------------------|
| Brand Name: | CUI Stack |
| Model Name or Number: | DPS050200UPS-P7-SZ |
| Serial Number: | Not Stated by Client |
| FCC ID Number: | Not Stated by Client |
| Cable Length And Type: | 190 cm, 1.3 mm Power Connector |
| Connected to Port: | Power Plug |

| Description: | Handset |
|------------------------|-----------------------------|
| Brand Name: | AOI Electronics Headset MFG |
| Model Name or Number: | M-12-44 |
| Serial Number: | Not Stated by Client |
| FCC ID Number: | Not Stated by Client |
| Cable Length And Type: | 124 cm |
| Connected to Port: | Headset (Jack Plug socket) |

| Description: | Car Kit/Cigarette Lighter Adapter |
|------------------------|-----------------------------------|
| Brand Name: | Power Lab |
| Model Name or Number: | 01758 |
| Serial Number: | Not Stated by Client |
| FCC ID Number: | Not Stated by Client |
| Cable Length And Type: | Not Stated by Client |
| Connected to Port: | Charger Port |

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2.2. Description Of EUT

The equipment under test is a GSM-1900, GPRS, class 8, class B-enabled PDA, powered by a non-removable lithium ion battery; the battery is supplied with the EUT. The EUT is also capable of being used with a recharger, a headset, colour LCD and digital camera accessories.

2.3. Modifications Incorporated In EUT

The EUT has not been modified from what is described by the Model Name stated above.

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2.4. Additional Information Related To Testing

| Power Supply Requirement: (non-removable lithium ion battery) | + 4.2 V |
|---|--|
| Power Supply Requirement: (AC Battery Charger) | 110 V, 60 Hz AC Mains Battery Charger |
| Intended Operating Environment: | Within GSM Network Coverage |
| Equipment Category: | Mobile Telephony/PDA |
| Type of Unit: | Mobile Station |
| Weight: | 175 g |
| Dimensions: | 11.3 cm x 6.7 cm x 2.7 cm |
| Interface Ports: | 2.5 mm Jack headset/camera port 2.5 mm Jack Power port USB Downlink Port Infra-Red Port |
| Transmit Frequency Range | 1850 to 1910 MHz tested on Bottom, Middle and Top channels. (1850.236, 1879.79 and 1909.873 MHz) |
| Receive Frequency Range | 1930 MHz to 1990 MHz tested on Bottom, Middle and Top channels. (1930.2, 1960.0 and 1989.8 MHz) |
| Maximum Power Output | 30.57 dBm |

2.5. Support Equipment

No support equipment was used to exercise the EUT during testing.

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3. Test Specification, Methods And Procedures

3.1. Test Specification

| Reference: | FCC Part 24 2001: Subpart E Sections 24.232, 24.235, 24.238 | |
|------------------|---|--|
| Title: | Code of Federal Regulations, Part 24 (47CFR) Personal Communication Services. | |
| Comments: | None. | |
| Purpose of Test: | To determine whether the equipment complied with the requirements of the specification for the purposes of certification. | |

| Reference: | FCC Part 15: 2001 Subpart B, Class B, Sections: 15.107 and 15.109 |
|------------------|---|
| Title: | Code of Federal Regulations, Part 15 (47CFR) Radio Frequency Devices: Digital Devices. |
| Comments: | A description of the test facility used for this test is on file with, and has been accepted by, the Federal Communications Commission as required by Section 2.948 of Federal Rules. |
| Purpose of Test: | To determine whether the equipment complied with the requirements of the specification for the purposes of certification. |

| Reference: | FCC Part 2: 2001 Subpart J, Sections 2.1046 2.1049 2.1051 2.1055 |
|------------------|---|
| Title: | Code of Federal Regulations, Part 2 (47CFR) Frequency allocations and radio treaty matters; General Rules and Regulations |
| Comments: | None. |
| Purpose of Test: | To determine whether the equipment complied with the requirements of the specification for the purposes of certification. |

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3.2. Methods And Procedures

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The methods and procedures used were as detailed in:

ANSI C63.2 (1996)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2001)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1998)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1 (1999)

Title: Specification for radio disturbance and immunity measuring apparatus and methods. Part 1. Radio disturbance and immunity measuring apparatus.

3.3. Definition Of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the Methods & Procedures section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations From The Test Specification

None

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5. Operation Of The EUT During Testing

5.1. Operating Conditions

The EUT was tested in a normal laboratory environment.

During testing, the EUT was powered by a 4.2 V battery supply and connected to 110 V AC battery charger.

5.2. Operating Modes

The EUT was tested in the following operating modes:

Call Mode:

For carrier output power, occupied bandwidth, final transmitter radiated measurements, testing was performed at full power on top, middle and bottom channels of the assigned frequency block.

For frequency stability testing, measurements were performed at full power on the top and bottom channels of the assigned frequency block at –30 through +50 deg.C in 10 degree increments.

All transmitter radiated and conducted spurious pre-scan tests were performed at full power on the middle channel of the assigned frequency block. Final measurements were then performed on the Top, Middle and Bottom channels if an emission was identified.

Receive/PDA Mode:

Testing was performed with the call terminated and the phone was left in its receive mode. All PDA accessories were connected during this phase of testing and the PDA was open and active.

5.3. Configuration and Peripherals

The EUT was tested in the following configuration:

The EUT was connected to a GSM test set either by direct connection or via an air link.

The EUT was configured with a USB cable, Hands Free Kit and Battery Charger for transmitter testing.

The EUT was configured with a USB cable, Camera and Battery Charger/Car Kit for receiver/PDS mode testing.

NB Section 2 of this report contains a full list of support equipment used and Appendix 3 contains a schematic diagram of the test configuration.

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6. Summary Of Test Results

6.1. Call Mode

To:

| Range Of Measurements | Specification Reference | Mode of Operation | Port Type | Compliancy Status |
|--|--|-------------------|----------------------|----------------------|
| Carrier Output Power | Part 2 of CFR 47: 2001, Section 2.1046(a) | Transmit | Antenna | Complied |
| Carrier Output Power (EIRP) | Part 24 of CFR 47: 2001, Section 24.232 | Transmit | Antenna | Complied |
| Frequency Stability (Temperature Variation) | Part 24 of CFR 47: 2001, Section 24.235 | Transmit | Antenna Terminals | Complied |
| Frequency Stability (Voltage Variation) | Part 24 of CFR 47: 2001, Section 24.235 | Transmit | Antenna Terminals | Complied |
| Occupied Bandwidth | Part 24 of CFR 47: 2001, Section 24.238 | Transmit | Antenna Terminals | Complied |
| Conducted Emissions at Band Edges | Part 24 of CFR 47: 2001, Section 24.238 | Transmit | Antenna Terminals | Complied |
| Conducted Emissions (Antenna Terminals) | Part 24 of CFR 47: 2001, Section 24.238 | Transmit | Antenna Terminals | Complied |
| Electric Field Strength, Spurious Emissions (30.0 MHz to 20.0 GHz) | Part 24 of CFR 47: 2001, Section 24.238 | Transmit | Antenna | Complied |
| Radiated Emissions at Band Edges | Part 2 of CFR 47: 2001, Section 2.1053 | Transmit | Antenna | Complied |

6.2. Receive/Idle Mode

| Range Of Measurements | Specification Reference | Mode of Operation | Port Type | Compliancy Status |
|--|--|-------------------|----------------|----------------------|
| Conducted Spurious Emissions (150 kHz to 30 MHz) | Part 15 of CFR 47: 2001, Section 15.107 | Receive/ Idle | AC Mains Input | Complied |
| Electric Field Strength, Spurious Emissions (30 MHz to 20 GHz) | Part 15 of CFR 47: 2001, Section 15.109 | Receive/ Idle | Enclosure | Complied |

6.3. Location Of Tests

All the measurements described in this report were performed at the premises of Radio Frequency Investigation Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ, England.

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7. Measurements, Examinations And Derived Results

7.1. General Comments

- 7.1.1. This section contains test results only. Details of the test methods and procedures can be found in Appendix 3 of this report.
- 7.1.2. Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.
- 7.1.3. The term "Call Mode" is used to signify Transmitter active and in normal mode of operation.
- 7.1.4. The term "PDA Mode" is used to signify that the phone is in a Standby condition being used as a PDA.

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7.2. Conducted RF Output Power: Call Mode: (Antenna Terminals)

- 7.2.1.The EUT, spectrum analyser and HP GSM test set were configured as for conducted port measurements.
- 7.2.2. Tests were performed to identify the maximum transmit power in accordance with FCC Part 2.1046(a) for conducted power.
- 7.2.3. The applicant provided a temporary antenna port to allow a direct connection to be made for conducted power measurements.
- 7.2.4. Results are shown for the EUT set to Bottom, Middle and Top channels using a fully charged battery. The battery nominally charged voltage is declared at 4.2 Volts:
- 7.2.5. There is no limit specified in FCC Part 24 for this test, it has been recorded as a requirement of FCC 2.1046. The Levels obtained are also used in conjunction with spurious attenuation measurements where the limits are based on the conducted carrier power (P).

Results:

| Channel | Frequency (MHz) | Maximum RF Output Power (dBm) |
|--------------|-----------------|-------------------------------------|
| Bottom (512) | 1850.235 | 26.28 |
| Middle (660) | 1879.777 | 26.12 |
| Top (810) | 1909.803 | 25.81 |

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7.3. Carrier Output Power: (EIRP) Call Mode

7.3.1. Tests were performed to identify the maximum transmitter power in accordance with FCC Part 24.232 for EIRP.

7.3.2. Test results are shown for the EUT set to Bottom, Middle and Top channels using a fully charged battery. The battery nominally charged voltage is declared at 4.2 Volts:

Results

To:

| Channel | Frequency (MHz) | Antenna Polarity (H/V) | Maximum Transmitter EIRP (dBm) | Limit EIRP (dBm) | Margin | Result |
|--------------|--------------------|------------------------------|--------------------------------------|---------------------|--------|----------|
| Bottom (512) | 1850.236 | Horiz. | 30.57 | 33.0 | 2.43 | Complied |
| Middle (660) | 1879.790 | Horiz. | 29.80 | 33.0 | 3.20 | Complied |
| Top (810) | 1909.873 | Horiz. | 29.42 | 33.0 | 3.58 | Complied |

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7.4. Frequency Stability Measurements: Call Mode

Temperature Variation

- 7.4.1. The EUT and HP GSM test set were configured for conducted antenna port measurements and as described in annex 2 of this report for frequency tolerance.
- 7.4.2. Measurements were performed to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of ambient temperature.
- 7.4.3. The ambient temperature was varied from -30°C to +50°C in 10°C steps. During the test the fundamental frequency of the EUT shall stay within the authorised frequency block.
- 7.4.4. The client has stated that the authorised frequency block is:-

| Lower Block Edge | 1850 MHz |
|------------------|----------|
| Upper Block Edge | 1910 MHz |

The limit is stated as the frequency stability that is sufficient to ensure that the fundamental emission stays within the authorised frequency block.

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To:

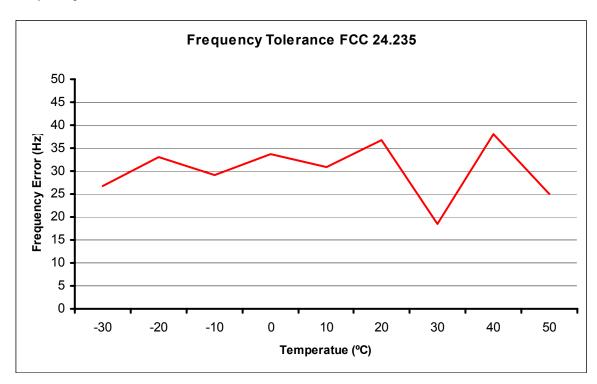
Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Frequency Stability Measurements (continued)

Results Bottom Channel (1850.2 MHz)

| Temp (Deg C) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------------|-------------------------|-----------------------------|-----------------------------------|--------------|----------|
| -30 | 26.8 | 1850.200027 | 1850.0 | 0.200027 | Complied |
| -20 | 33.1 | 1850.200033 | 1850.0 | 0.200033 | Complied |
| -10 | 29.1 | 1850.200029 | 1850.0 | 0.200029 | Complied |
| +0 | 33.8 | 1850.200034 | 1850.0 | 0.200034 | Complied |
| +10 | 30.8 | 1850.200031 1850.0 0.200031 | | Complied | |
| +20 | 36.7 | 1850.200037 | 1850.0 | 0.200037 | Complied |
| +30 | 18.5 | 1850.200019 | 1850.0 | 0.200018 | Complied |
| +40 | 38.0 | 1850.200038 1850.0 0.200 | | 0.200038 | Complied |
| +50 | 25.0 | 1850.200025 | 1850.0 | 0.200025 | Complied |

Frequency Variation From 1850.2MHz



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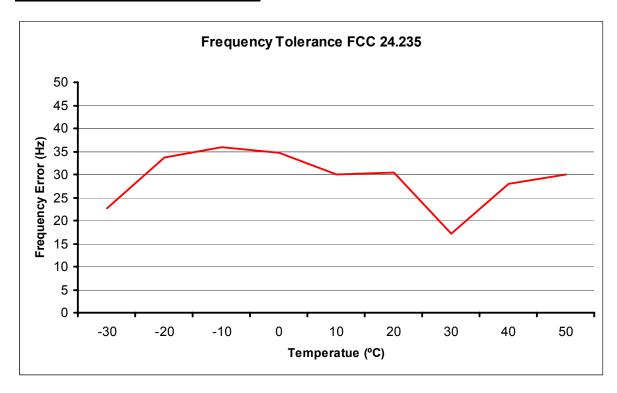
Frequency Stability Measurements (continued)

Results Top Channel (1909.8 MHz)

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| Temp (Deg C) | Frequency Error (Hz) | Measured Frequency (MHz) | Upper Band Edge Limit (MHz) | Margin (MHz) | Result |
|-----------------|-------------------------|-----------------------------|-----------------------------------|--------------|----------|
| -30 | 22.6 | 1909.800023 | 1910.0 | 0.199977 | Complied |
| -20 | 33.6 | 1909.800034 | 1910.0 | 0.199966 | Complied |
| -10 | 36.0 | 1909.800036 | 1910.0 | 0.199964 | Complied |
| +0 | 34.6 | 1909.800035 | 1910.0 | 0.199965 | Complied |
| +10 | 30.1 | 1909.800030 | 1910.0 | 0.199970 | Complied |
| +20 | 30.4 | 1909.800030 | 1910.0 | 0.199970 | Complied |
| +30 | 17.1 | 1909.800017 | 1910.0 | 0.199983 | Complied |
| +40 | 28.0 | 1909.800028 | 1910.0 | 0.199972 | Complied |
| +50 | 30.0 | 1909.800030 | 1910.0 | 0.199970 | Complied |

Frequency Variation From 1909.8MHz



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7.5. Frequency Stability Measurements: Call Mode

Voltage Variation

To:

7.5.1. The EUT and HP GSM test set were configured for conducted antenna port measurements and as described within annex 2 of this report for frequency tolerance.

- 7.5.2. Measurements were performed to determine the frequency stability of the fundamental emission from the EUT, when subjected to variation of supply voltage.
- 7.5.3. The supply voltage was varied during the test and the fundamental frequency of the EUT noted. The limit requests that the fundamental frequency stay's within the authorised frequency block.
- 7.5.4. The client has stated that the authorised frequency block is:-

| Lower Block Edge | 1850 MHz |
|------------------|----------|
| Upper Block Edge | 1910 MHz |

Results Bottom Channel (1850.2 MHz)

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|----------------|-------------------------|-----------------------------|-----------------------------------|--------------|----------|
| 4.2 | 18 | 1850.200018 | 1850 | 0.200018 | Complied |
| 3.45 | 22 | 1850.200022 | 1850 | 0.200022 | Complied |

Results Top Channel (1909.8 MHz)

| Voltage (V) | Frequency Error (Hz) | Measured Frequency (MHz) | Lower Band Edge Limit (MHz) | Margin (MHz) | Result |
|----------------|-------------------------|-----------------------------|-----------------------------------|--------------|----------|
| 4.2 | 23 | 1909.800023 | 1910 | 0.199977 | Complied |
| 3.45 | 13 | 1909.800013 | 1910 | 0.199987 | Complied |

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7.6. Transmitter Conducted Measurements: Call Mode: (Occupied Bandwidth)

- 7.6.1. The EUT, HP GSM test and spectrum analyser were configured for conducted antenna port measurements.
- 7.6.2.A temporary antenna port was provided by the applicant to allow for conducted measurements.
- 7.6.3. The device was operating in its normal mode of operation.
- 7.6.4. Measurements were performed to determine the Occupied Bandwidth of the fundamental emission from the EUT at the bottom middle and top channels.
- 7.6.5. The Occupied Bandwidth was measured using the built in occupied bandwidth function of the Rohde and Schwarz FSEB spectrum analyser. It was set to measure the bandwidth where 99% of the signal power was contained. The analyser settings were set as per those outlined in the FSEB user manual for this measurement, i.e. RBW <= 1/20 of occupied bandwidth.

Results:

| Channel | Frequency (MHz) | Resolution Bandwidth (kHz) | Video Bandwidth (kHz) | Occupied Bandwidth (kHz) |
|--------------|--------------------|----------------------------------|-----------------------------|--------------------------------|
| Bottom (512) | 1850.2 | 3.0 | 10.0 | 215.7 |
| Middle (660) | 1879.8 | 3.0 | 10.0 | 205.1 |
| Top (810) | 1909.8 | 3.0 | 10.0 | 206.9 |

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7.7. Transmitter Conducted Measurements: Call Mode: (Emissions at Band Edges)

- 7.7.1. The EUT and spectrum analyser was configured as for conducted antenna port measurements.
- 7.7.2. The applicant to allow for conducted measurements provided a temporary antenna port.
- 7.7.3. FCC Part 24.238 states that emissions shall be attenuated by at least 43+10 Log (P) dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.
- 7.7.4. FCC Part 24.238 also states that the 1st MHz band immediately adjacent to the applicants declared frequency block may be measured using a resolution bandwidth of at least 1% of the emission bandwidth. This bandwidth was found to be 3 kHz.
- 7.7.5. The highest level within these 1 MHz bands was thus measured and recorded in the tables below.
- 7.7.6. The spurious attenuation level in dB is described in TIA_EIA_603B and is defined as: -

$$dB = 10 \log_{10} \left(\frac{TX \ power \ in \ watts}{0.001} \right) - \text{spurious level (dBm)}$$

7.7.7. As this test is conducted, the conducted TX power was used from section 7.2 of this report to calculate the attenuation limits and levels.

Results:

Bottom Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Spurious Attenuation (dBc) | Limit (dBc) | Margin (dB) | Result |
|--------------------|------------------------------------|----------------------------------|----------------|----------------|----------|
| 1849.907 | -18.85 | 45.13 | 39.28 | 5.85 | Complied |

Top Band Edge

| Frequency (MHz) | Peak Emission Level (dBm) | Spurious Attenuation (dBc) | Limit (dBc) | Margin (dB) | Result |
|--------------------|------------------------------------|----------------------------------|----------------|----------------|----------|
| 1910.012 | -17.60 | 43.41 | 38.81 | 4.60 | Complied |

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7.8. Transmitter Conducted Measurements: Call Mode: (Emissions Outside of Authorised Frequency Block)

- 7.8.1. The EUT and spectrum analyser was configured as for conducted antenna port measurements.
- 7.8.2. The applicant to allow for conducted measurements provided a temporary antenna port.
- 7.8.3. FCC Part 24.238 states that emissions shall be attenuated by at least 43+10 log (P) dB below the transmitter power (P).
- 7.8.4. The spurious attenuation level is defined as: -

$$dB = 10 \log_{10} \left(\frac{TX \ power \ in \ watts}{0.001} \right) - \text{spurious level (dBm)}$$

Result: Bottom Channel

| Frequency (MHz) | Peak Emission Level (dBm) | Spurious Attenuation (dBc) | Limit (dBc) | Margin (dB) | Result |
|--------------------|------------------------------------|----------------------------------|----------------|----------------|----------|
| 4873.3 | -35.87 | 62.15 | 39.28 | 22.87 | Complied |

Result: Middle Channel

| Frequency (MHz) | Peak Emission Level (dBm) | Spurious Attenuation (dBc) | Limit (dBc) | Margin (dB) | Result |
|--------------------|------------------------------------|----------------------------------|----------------|----------------|----------|
| 4873.3 | -37.01 | 63.13 | 39.12 | 24.01 | Complied |

Result: Top Channel

| Frequency (MHz) | Peak Emission Level (dBm) | Spurious Attenuation (dBc) | Limit (dBc) | Margin (dB) | Result |
|--------------------|------------------------------------|----------------------------------|----------------|----------------|----------|
| 4973.33 | -36.63 | 62.44 | 38.81 | 23.63 | Complied |

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7.9. Radiated Emissions Outside of Authorised Frequency Block

7.9.1. The client has stated that the highest fundamental frequency for the EUT was 1909.8 MHz. Therefore tests were performed up to 20 GHz.

- 7.9.2. Preliminary Radiated spurious scans were performed with the EUT set to the Middle channel. Any visible spurious was then measured with the device set to top, bottom and middle channels.
- 7.9.3. The limit is specified as 43+10 Log (P) dB below the transmitter power (P).
- 7.9.4. The radiated spurious emission level in dB is described in TIA_EIA_603B and is defined as: -

$$dB = 10 \log_{10} \left(\frac{TX \ power \ in \ watts}{0.001} \right) - \text{spurious level (dBm)}$$

Result: Bottom Channel

| Frequency (MHz) | Spurious Emission (dBm) | Spurious Attenuation dBc | Spurious Attenuation Limit (dBc) | Margin (dB) | Result |
|--------------------|-------------------------------|--------------------------------|--|----------------|----------|
| 3700.986 | -22.6 | 53.17 | 43.57 | 9.6 | Complied |

Result: Middle Channel

| Frequency (MHz) | Spurious Emission (dBm) | Spurious Attenuation dBc | Spurious Attenuation Limit (dBc) | Margin (dB) | Result |
|--------------------|-------------------------------|--------------------------------|--|----------------|----------|
| 3700.986 | -17.3 | 47.1 | 42.80 | 4.3 | Complied |

Result: Top Channel

| Frequency (MHz) | Spurious Emission (dBm) | Spurious Attenuation dBc | Spurious Attenuation Limit (dBc) | Margin (dB) | Result |
|--------------------|-------------------------------|--------------------------------|--|----------------|----------|
| 3759.681 | -21.7 | 51.12 | 42.42 | 8.7 | Complied |

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7.10. Radiated Emissions: Call Mode: (Emissions at Band Edges):

7.10.1.FCC Part 24.238 states that emissions shall be attenuated by at least 43+10 log(P) dB below the transmitter power (P). It also states that the 1st MHz band immediately adjacent to the applicants declared frequency block may be measured using a resolution bandwidth of at least 1% of the emission bandwidth. This bandwidth was found to be 3 kHz.

7.10.2. The highest level within these 1 MHz bands was thus measured and recorded.

7.10.3. The limit is specified as 43+10 Log (P) dB below the transmitter power (P), where (P) is the power measured at the EUT antenna terminals.

7.10.4. The radiated spurious emission level in dB is described in TIA_EIA_603B and is defined as: -

$$dB = 10 \log_{10} \left(\frac{TX \ power \ in \ watts}{0.001} \right) - \text{spurious level (dBm)}$$

Results:

Result: Bottom Band Edge

| Frequency (MHz) | Spurious Emission (dBm) | Spurious Attenuation dBc | Spurious Attenuation Limit (dBc) | Margin (dB) | Result |
|--------------------|-------------------------------|--------------------------------|--|----------------|----------|
| 1850 | -22.40 | 52.97 | 43.57 | 9.40 | Complied |

Result: Top Band Edge

| Frequency (MHz) | Spurious Emission (dBm) | Spurious Attenuation dBc | Spurious Attenuation Limit (dBc) | Margin (dB) | Result |
|--------------------|-------------------------------|--------------------------------|--|----------------|----------|
| 1910 | -27.43 | 56.85 | 42.42 | 14.43 | Complied |

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7.11. AC Mains Conducted Emissions: Receive/Idle Mode

7.11.1. Quasi-Peak Detector Measurements On Live And Neutral Lines

7.11.1.1. Plots of the initial scans can be found in Appendix 4.

7.11.1.2. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector:

| Frequency (MHz) | Line | Q-P Level (dBμV) | Q-P Limit (dBμV) | Margin (dB) | Result |
|--------------------|---------|---------------------|---------------------|----------------|----------|
| 0.25457 | Neutral | 51.06 | 61.61 | 10.55 | Complied |
| 0.78590 | Neutral | 40.82 | 56.00 | 15.18 | Complied |
| 0.79711 | Neutral | 40.01 | 56.00 | 15.99 | Complied |
| 1.27259 | Neutral | 35.11 | 56.00 | 20.89 | Complied |
| 1.39736 | Live | 32.90 | 56.00 | 23.10 | Complied |
| 3.04050 | Neutral | 36.02 | 56.00 | 19.98 | Complied |

7.11.2. Average Detector Measurements On Live And Neutral Lines

7.11.2.1. Following the initial scans and Quasi-Peak measurements, further measurements were made at the relevant frequencies using an average detector. The measured levels were as follows:

| Frequency (MHz) | Line | Av. Level (dBμV) | Av. Limit (dBμV) | Margin (dB) | Result |
|--------------------|---------|---------------------|---------------------|----------------|----------|
| 0.25457 | Neutral | 36.56 | 51.61 | 15.05 | Complied |
| 0.78590 | Neutral | 28.36 | 46.00 | 17.64 | Complied |
| 0.79711 | Neutral | 17.84 | 46.00 | 28.16 | Complied |
| 1.27259 | Neutral | 16.80 | 46.00 | 29.20 | Complied |
| 1.39736 | Live | 17.59 | 46.00 | 28.41 | Complied |
| 3.04050 | Neutral | 15.05 | 46.00 | 30.45 | Complied |

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7.12. Radiated Emissions: Receive/Idle Mode

7.12.1. The following table indicates measured results with the EUT operating in receive mode to the limits specified in Part 15.109.

7.12.2. The following table lists frequencies at which emissions were measured using a Quasi-Peak detector at a test distance of 3m (results incorporate antenna factors and cable losses):

| Frequency (MHz) | Ant. Pol. | Q-P Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Result |
|--------------------|--------------|-----------------------|-------------------|----------------|----------|
| 47.990 | Vert. | 28.9 | 40.0 | 11.1 | Complied |
| 69.630 | Vert. | 23.2 | 40.0 | 16.8 | Complied |
| 76.763 | Vert. | 21.9 | 40.0 | 18.1 | Complied |
| 133.560 | Vert. | 23.4 | 46.0 | 22.6 | Complied |
| 169.650 | Vert. | 28.3 | 46.0 | 17.7 | Complied |
| 218.811 | Vert. | 29.7 | 46.0 | 16.3 | Complied |
| 275.927 | Vert. | 26.4 | 46.0 | 19.6 | Complied |
| 317.477 | Vert. | 32.9 | 46.0 | 13.1 | Complied |
| 455.072 | Vert. | 32.8 | 46.0 | 13.2 | Complied |
| 864.116 | Vert. | 42.0 | 46.0 | 4.0 | Complied |

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8. Measurement Uncertainty

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- 8.1. No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.
- 8.2. The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.
- 8.3. The uncertainty of the result may need to be taken into account when interpreting the measurement results.
- 8.4. The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

| Measurement Type | Range | Confidence Level | Calculated Uncertainty |
|-------------------------------------|---------------------|---------------------|---------------------------|
| Carrier Output Power (EIRP) | Not applicable | 95% | +/- 1.78 dB |
| Conducted Emissions (AC) | 0.15 MHz to 30 MHz | 95% | +/- 3.25 dB |
| Conducted Emissions Antenna Port | 0.009 kHz to 26 GHz | 95% | +/- 1.2 dB |
| Radiated Emissions at 3.0 metres | 30 MHz to 1000 MHz | 95% | +/- 5.26 dB |
| Radiated Emissions at 3.0 metres | 1 GHz to 26 GHz | 95% | +/- 1.78 dB |
| Frequency Stability | Not applicable | 95% | +/- 20 Hz |
| Occupied Bandwidth | 1850 to 1910 MHz | 95% | +/- 0.12 % |
| Emissions at Band Edges | 1850 to 1910 MHz | 95% | +/- 1.78 dB |

8.5. The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

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Appendix 1. Test Equipment Used

| RFI No. | Instrument | Manufacturer | Type No. | Serial No. |
|---------|----------------------------------|--------------------|---------------------------|-------------|
| A027 | Horn Antenna | Eaton | 9188-2 | 301 |
| A031 | 2 to 4 GHz Eaton Horn Antenna | Eaton | 91889-2 | 557 |
| A067 | LISN | Rohde & Schwarz | ESH3-Z5 | 890603/002 |
| A1077 | 3020A | Narda | 3020A | 40140 |
| A1141 | HP 11691D | Hewlett Packerd | 11691D | 1212A02494 |
| A246 | 30 dB Attenuator | Schaffner | 6830-17-B | None |
| A367 | WG 22 isolator | MRI | FRR-400 | 170 |
| A388 | 20 dB attenuator (6) | Suhner | 6820.17.B | None |
| A490 | Bilog Antenna | Chase | CBL6111A | 1590 |
| A512 | Wave Guide Antenna | EMCO | 3115 | 3993 |
| A532 | RHT & Barometer | RS Components | 216-935 | N/A |
| A553 | Bi-log Antenna | Chase | CBL6111A | 1593 |
| A559 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 357881052 |
| C222 | Cable | Rosenberger | UFA210A-1- 1181-70x70 | None |
| C225 | Cable | Rosenberger | UFA210A-1- 1181-70x70 | None |
| C321 | Cable | Rosenberger | UFA 210A-1- 0788-50x50 | 96A0122 |
| C346 | Coaxial Cable | Rosenberger | UFA210A-1- 1181-70x70 | 1932 |
| C364 | BNC Cable | Rosenberger | RG142 | None |
| C573 | C573-N-N-2 | Rosenberger | UFA210A-1- 788-50x50 | 97E0936 |
| E013 | PCN Environmental Chamber | Sanyo | ATMOS chamber | None |
| G013 | SMHU Signal Generator | Rohde & Schwarz | SMHU | 894 055/003 |
| G085 | Generator | Hewlett Packard | 83650L | 3614A00104 |

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Test Equipment Used (continued)

| RFI No. | Instrument | Manufacturer | Type No. | Serial No. |
|---------|--|----------------------|----------|---|
| M025 | Fluke 87 Multimeter | Fluke | 87 | 473 50093 |
| M069 | ESMI Spectrum Analyser / Receiver | Rohde & Schwarz | ESMI | 829 808/007 (DU) / 827 063/008 (RU) |
| M090 | Receiver / Spectrum Analyser System | Rohde & Schwarz | ESBI | DU:838494/005 RU:836833/001 |
| M093 | HP Oscilloscope | Hewlett Packard | 54520A | US34360744 |
| M1013 | GSM Test set | Hewlett Packard | 8922M | 3503U00372 |
| M1014 | DCS Test set | Hewlett Packard | 83220E | 3741U02702 |
| M133 | Temperature/Humidity/Press ure Meter | RS Components | None | None |
| M198 | Thermal Power Sensor | Rohde & Schwarz | NRV-Z52 | 827 191/003 |
| M199 | Power Meter | Rohde & Schwarz | NRVS | 827023/075 |
| M243 | Thermometer/Barometer/Hy grometer | Oregon Scientific | BA 116 | None |
| S011 | D.C. PSU | INSTEK | PR-3010H | 9401270 |
| S201 | Site 1 | RFI | 1 | - |
| S204 | Site 4 | RFI | 4 | - |
| S216 | Site 16 | RFI | 16 | None |

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

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Appendix 2. Measurement Methods

A2.1 FCC Part 24.232: Effective Isotropic Radiated Power (EIRP)

- A2.1.1 EIRP measurements were performed in accordance with the standard, against appropriate limits.
- A2.1.2 The EIRP was measured with the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 2001 Clause 5.4. The transmitter was fitted with an integral antenna, as such tests were run with the unit operating into the integral antenna.
- A2.1.3 The level of the EIRP was measured using a spectrum analyser. Its amplitude was maximised by first raising and lowering the test antenna in the horizontal plane. The turntable was then rotated through 360 degrees to determine the maximum reading. The maximum reading was then recorded. This procedure was then repeated for the Vertical polarity.
- A2.1.4 Once the final amplitude (maximised) had been obtained, the EIRP was measured by using a substitution method.
- A2.1.5 The substitution method involved replacing the EUT with a substitution antenna. For EIRP measurements a Horn antenna who's gain was based on an isotropic antenna was used. The centre of the substitution antenna was set to approximately the same centre location as the EUT. The substitution antenna was set to the horizontal polarity. The substitution antenna was then connected to and fed by a signal generator tuned to the EUT's operating frequency. The tests antenna was then raised and lowered to obtain a maximum reading on the spectrum analyser. The level of the signal generator output was then adjusted until the previously recorded maximum level for this set of conditions was obtained. This procedure was repeated with both antennas vertically polarised. The EIRP was then taken as:-

EIRP = Signal Generator Level - Cable Loss + Antenna Gain

- A2.1.6 All measurements were performed using broadband Horn antennas.
- A2.1.7 The test equipment settings for EIRP measurements were as follows:

| Receiver Function | Final Measurements |
|-------------------|--------------------|
| Detector Type: | Peak |
| Mode: | Not applicable |
| Bandwidth: | 1 MHz |
| Amplitude Range: | 20 dB |
| Measurement Time: | > 1 s |
| Observation Time: | > 15 s |
| Sweep Time: | Coupled |

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A2.2 FCC Part 24.235: Frequency Stability

- A2.2.1 The EUT was situated within an environmental test chamber and connected to test equipment via and access port.
- A2.2.1 Measurements were performed with the EUT operating under extremes of temperature in 10 degree increments within the range –30 to 50 Deg C.
- A2.2.1 Measurements were also performed at voltage extremes between the declared nominal supply voltage and at the declared endpoint voltage.
- A2.2.1 The requirement was to determine the frequency stability of the device under specified environmental operating conditions.
- A2.2.2 Measurements were made on the top, and bottom channels.
- A2.2.3 The EUT was switched off for a minimum of 30 minutes between each stage of testing while the environmental chamber stabilised at the next temperature within the stated temperature range.
- A2.2.4 Once the environmental chamber had reached thermal equilibrium, the nominal frequency of the EUT was measured and recorded. The recorded frequency was compared to the applicants declared operating frequency band edges. In order to show compliance, the measured frequency must remain within the declared frequency band. Failure to do so would result in none compliance.

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A2.3 Conducted Antenna Port Measurements: FCC Part 24.238:

A2.3.1 Spurious measurements at the Antenna port were performed from the lower frequency of the allocated frequency block and from the top frequency of the allocated frequency block to 10 times the highest EUT generated frequency.

- A2.3.2 A measuring receiver was connected to the antenna port of the EUT via a suitable cable and RF Attenuator. The total loss of both the cable and the attenuator were measured and entered as a reference level offset into the measuring receiver to correct for the losses.
- A2.3.3 The specified frequency band was investigated with the transmitter operating at full power on the middle channel. Any spurious noted was then measured with the transmitter set to top, bottom and middle channels.
- A2.3.4 The EUT was then replaced with a signal generator who's frequency was set to the indicated spurious frequency and who's level was adjusted to equal that recorded in section from the EUT. The level final recorded level was that reported by the signal generated.

A2.3.5 The test equipment settings for conducted antenna port measurements were as follows:

| Receiver Function | Initial Scan | Final Measurements Below 1GHz | Final Measurements Above 1 GHz |
|-------------------|------------------|----------------------------------|-----------------------------------|
| Detector Type: | Peak | Quasi-Peak (CISPR) | Peak/Average |
| Mode: | Max Hold | Not applicable | Not applicable |
| Bandwidth: | 100 kHz | 120 kHz | 1 MHz |
| Amplitude Range: | 60 dB | 20 dB | 20 dB (typical) |
| Measurement Time: | Not applicable | > 1 s | > 1 s |
| Observation Time: | Not applicable | > 15 s | > 15 s |
| Step Size: | Continuous sweep | Not applicable | Not applicable |
| Sweep Time: | Coupled | Not applicable | Not applicable |

^{*} The resolution bandwidth used for measurements in the 1 MHz blocks either side of the declared operating frequency block was set to 3 kHz.

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A2.4 FCC Part 24.238: Occupied Bandwidth

A2.4.1 The EUT was connected to a spectrum analyser via its temporary antenna port.

A2.4.1 Measurements were performed to determine the Occupied Bandwidth in accordance with FCC Part 2.1049. The Occupied Bandwidth was measured from the fundamental emission at the bottom middle and top channels. The EUT is a PCS phone therefore no modulation input port was available. A call was thus setup using the PCS/GSM simulator and using normal modulation. The Occupied Bandwidth was measured in this configuration.

A2.4.2 The Occupied Bandwidth was measured using the built in occupied bandwidth function of the Rohde and Schwarz FSEB spectrum analyser. It was set to measure the bandwidth where 99% of the signal power was contained. The analyser settings were set as per those outlined in the FSEB user manual for this measurement, i.e., RBW <= 1/20 of occupied bandwidth. A value of 3kHz was used.

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A2.5 FCC Part 15: AC Mains Conducted Emissions

A2.5.1 AC mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A2.5.2 The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane.

A2.5.3 Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a Peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

A2.5.4 During the swept measurements (and also during subsequent final measurements on single frequencies) any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

A2.5.5 Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were retested (at individual frequencies) using the appropriate detector function.

A2.5.6 The test equipment settings for conducted emissions measurements were as follows:

| Receiver Function | Initial Scan | Final Measurements |
|-------------------|------------------|----------------------------|
| Detector Type: | Peak | Quasi-Peak (CISPR)/Average |
| Mode: | Max Hold | Not applicable |
| Bandwidth: | 10 kHz* | 9 kHz* |
| Amplitude Range: | 60 dB | 20 dB |
| Measurement Time: | Not applicable | > 1 s |
| Observation Time: | Not applicable | > 15 s |
| Step Size: | Continuous sweep | Not applicable |
| Sweep Time: | Coupled | Not applicable |

^{*} Where measurements were made below 150 kHz a 200 Hz bandwidth was used.

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A2.6 Radiated Emissions: FCC Part 15/24

A2.6.1 Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

A2.6.2 Initial pre-scans covering the entire measurement band from the lowest generated frequency up to the highest specified frequency were performed within a screened chamber in order to identify frequencies on which the EUT was generating interference. This determined the frequencies from the EUT with required further attention. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and for the duty cycle of the EUT. The limit used for pre-scans below 1GHz use a limit line of 84 dBuV and –13dBm above GHz, this equates to 43+10LOG(P) as required by the FCC.

A2.6.3 The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested on the open area test site, at the appropriate distance, using a measuring receivers with a Quasi-Peak detector (below 1000 MHz), where applicable, for measurements above 1000 MHz average and peak detectors were used.

A2.6.4 For the main (final) measurements the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2001 Clause 5.4.

A2.6.5 On the open area test site, at each frequency where a signal was found, the levels were maximised by initially rotating the turntable through 360° and then varying the antenna height between 1 m and 4 m in the horizontal polarisation. At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT. The procedure was repeated for the vertical polarisation.

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A2.6.6 The final field strength was determined as the indicated level in dBuV plus cable loss and antenna factor.

A2.6.7 The test equipment settings for radiated emissions measurements were as follows:

| Receiver Function | Initial Scan | Final Measurements Below 1GHz | Final Measurements Above 1 GHz |
|-------------------|-----------------------------------|----------------------------------|-----------------------------------|
| Detector Type: | Peak | Quasi-Peak (CISPR) | Peak/Average |
| Mode: | Max Hold | Not applicable | Not applicable |
| Bandwidth: | (120 kHz < 1GHz) (1MHz > 1GHz) | 120 kHz | 1 MHz (If Applicable) |
| Amplitude Range: | 60 dB | 20 dB | 20 dB (typical) |
| Measurement Time: | Not applicable | > 1 s | > 1 s |
| Observation Time: | Not applicable | > 15 s | > 15 s |
| Step Size: | Continuous sweep | Not applicable | Not applicable |
| Sweep Time: | Coupled | Not applicable | Not applicable |

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Appendix 3. Test Configuration Drawings

This appendix contains the following drawings:

| Drawing Reference Number | Title |
|--------------------------|---|
| DRG\44198JD01\EMICON | Test configuration for measurement of conducted emissions |
| DRG\44198JD01\EMIRAD | Test configuration for measurement of radiated emissions |
| DRG\44198JD01\001 | Schematic diagram of the EUT, support equipment and interconnecting cables used for the test (call mode) |
| DRG\44198JD01\002 | Schematic diagram of the EUT, support equipment and interconnecting cables used for the test (standby mode) |

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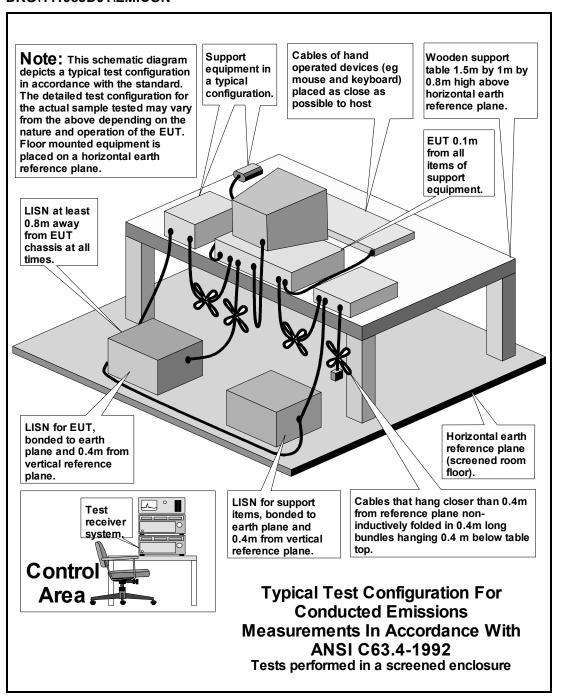
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DRG\44198JD01\EMICON



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Conformance Testing Department

S.No: RFI/MPTB1/RP44198JD01A

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TEST REPORT

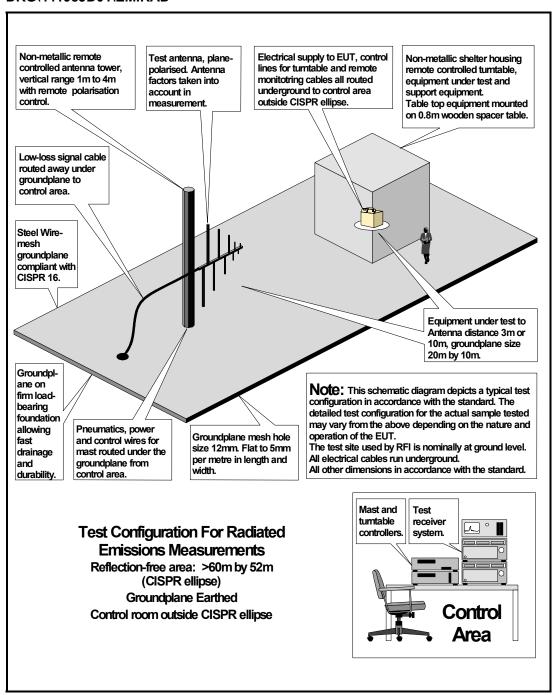
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

DRG\44198JD01\EMIRAD



Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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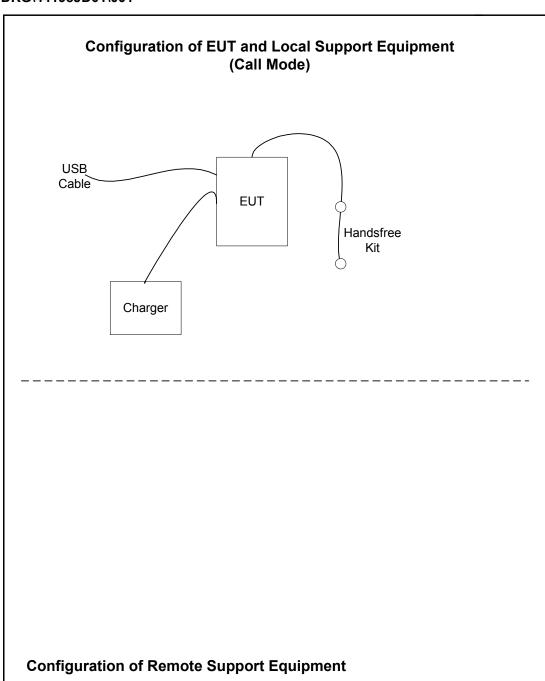
Issue Date: 23 January 2003

Test Of: Danger Inc.

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

DRG\44198JD01\001

To:



Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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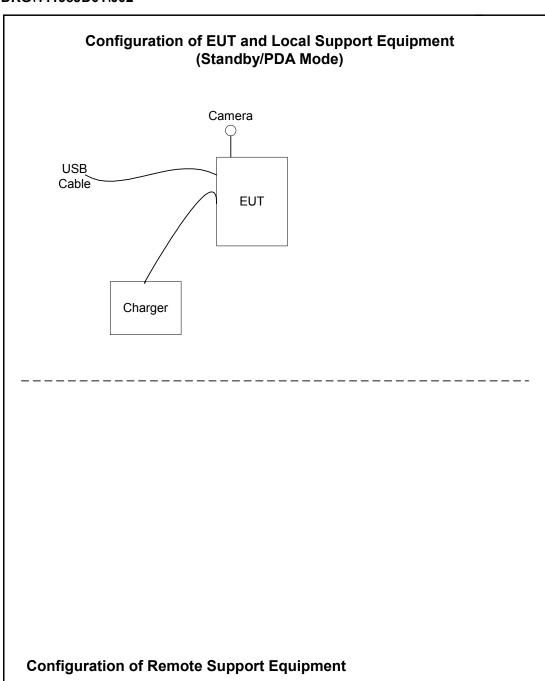
Issue Date: 23 January 2003

Test Of: Danger Inc.

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

DRG\44198JD01\002

To:



S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Conformance Testing Department

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Appendix 4. Graphical Test Results

This appendix contains the following graphs:

| Graph Reference Number | Title | |
|---------------------------|--|--|
| GPH\44198JD01\005 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (30 MHz to 1 GHz) | |
| GPH\44198JD01\006 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (1 GHz to 2 GHz) | |
| GPH\44198JD01\007 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (2 GHz to 4 GHz) | |
| GPH\44198JD01\008 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (2 GHz to 4 GHz) | |
| GPH\44198JD01\009 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (1 GHz to 2 GHz) | |
| GPH\44198JD01\010 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (30 MHz to 1 GHz) | |
| GPH\44198JD01\011 | AC Mains Conducted Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (150 kHz to 30 MHz) | |
| GPH\44198JD01\012 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (4 GHz to 5 GHz) | |
| GPH\44198JD01\013 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (5 GHz to 6 GHz) | |
| GPH\44198JD01\014 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (6 GHz to 8 GHz) | |
| GPH\44198JD01\015 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (8 GHz to 12.5 GHz) | |
| GPH\44198JD01\016 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (12.5 GHz to 18 GHz) | |

S.No: RFI/MPTB1/RP44198JD01A

Conformance Testing Department Page 44 of 90

Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Graphical Test Results (continued)

| Graph Reference Number | Title | |
|---------------------------|---|--|
| GPH\44198JD01\017 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel (18 GHz to 26.5 GHz) | |
| GPH\44198JD01\018 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (4 GHz to 5 GHz) | |
| GPH\44198JD01\019 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (5 GHz to 6 GHz) | |
| GPH\44198JD01\020 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (6 GHz to 8 GHz) | |
| GPH\44198JD01\021 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (8 GHz to 12.5 GHz) | |
| GPH\44198JD01\022 | Radiated Spurious Emissions. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running. (12.5 GHz to 18 GHz) | |
| GPH\44198JD01\001a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (1 MHz to 1 GHz) | |
| GPH\44198JD01\002a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (1 MHz to 1 GHz) | |
| GPH\44198JD01\003a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (1 MHz to 1 GHz) | |
| GPH\44198JD01\004a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (1 GHz to 1.849 GHz) | |
| GPH\44198JD01\005a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (1 GHz to 1.849 GHz) | |
| GPH\44198JD01\006a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (1 GHz to 1.849 GHz) | |

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Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Graphical Test Results (continued)

Conformance Testing Department

| Graph Reference Number | Title | |
|---------------------------|---|--|
| GPH\44198JD01\007a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (1.911 GHz to 2 GHz) | |
| GPH\44198JD01\008a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (1.911 GHz to 2 GHz) | |
| GPH\44198JD01\009a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (1.911 GHz to 2 GHz) | |
| GPH\44198JD01\010a | Conducted Antenna Port Band Edge. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (1.8489 GHz to 1.8501 GHz) | |
| GPH\44198JD01\011a | Conducted Antenna Port Band Edge. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (1.9099 GHz to 1.9111 GHz) | |
| GPH\44198JD01\013a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (2 GHz to 5 GHz) | |
| GPH\44198JD01\014a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (2 GHz to 5 GHz) | |
| GPH\44198JD01\015a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (2 GHz to 5 GHz) | |
| GPH\44198JD01\016a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (5 GHz to 10 GHz) | |
| GPH\44198JD01\017a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (5 GHz to 10 GHz) | |
| GPH\44198JD01\018a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (5 GHz to 10 GHz) | |
| GPH\44198JD01\019a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (10 GHz to 15 GHz) | |

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Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

Graphical Test Results (continued)

| Graph Reference Number | Title | |
|---------------------------|---|--|
| GPH\44198JD01\020a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (10 GHz to 15 GHz) | |
| GPH\44198JD01\021a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (10 GHz to 15 GHz) | |
| GPH\44198JD01\022a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel. (15 GHz to 20 GHz) | |
| GPH\44198JD01\023a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel. (15 GHz to 20 GHz) | |
| GPH\44198JD01\024a | Conducted Antenna Port Spurious Emissions. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel. (15 GHz to 20 GHz) | |
| GPH\44198JD01BE\001 | Radiated Band Edge. IMEI:- 001028000035010 Operating Conditions:- Allocated Bottom Channel. | |
| GPH\44198JD01BE\002 | Radiated Band Edge. IMEI:- 001028000035010 Operating Conditions:- Allocated Top Channel. | |

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

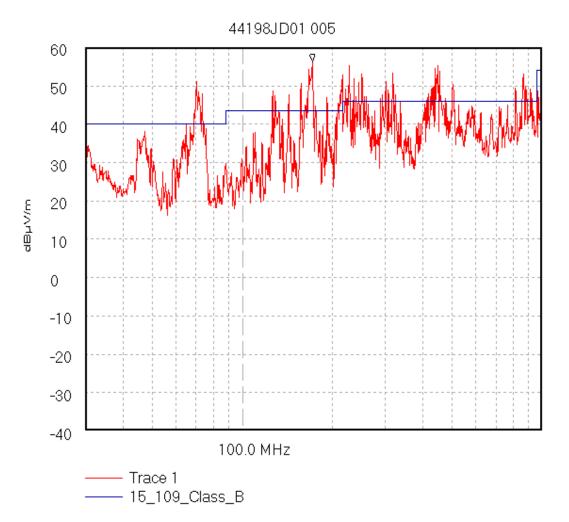
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\005 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 30.0 MHz; Stop 1.0 GHz - Log Scale Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 121.26 kHz; VBW 100.0 kHz; Att 0 dB; Swp 40.0 mS

Peak 171.192368 MHz, 56.32 dBµV/m

Limit/Mask: 15_109_Class_B; Transducer Factors: A490 05/12/2002 11:26:39 AM

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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Issue Date: 23 January 2003

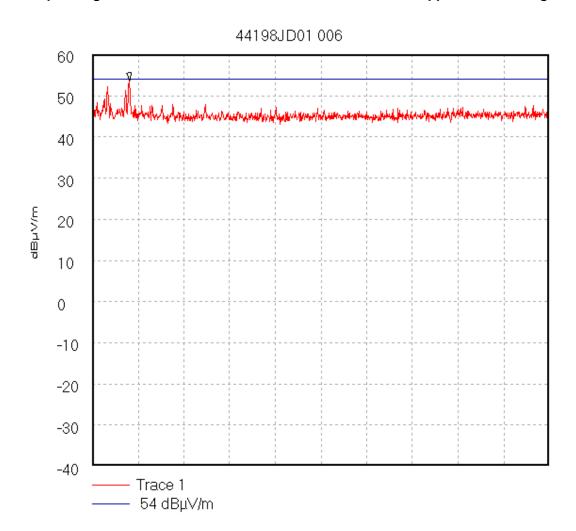
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\006 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 1.0 GHz; Stop 2.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.081 GHz, 53.73 dBµV/m

Display Line: 54 dBµV/m; Transducer Factors: 1 to 2 05/12/2002 11:33:55 AM

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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Issue Date: 23 January 2003

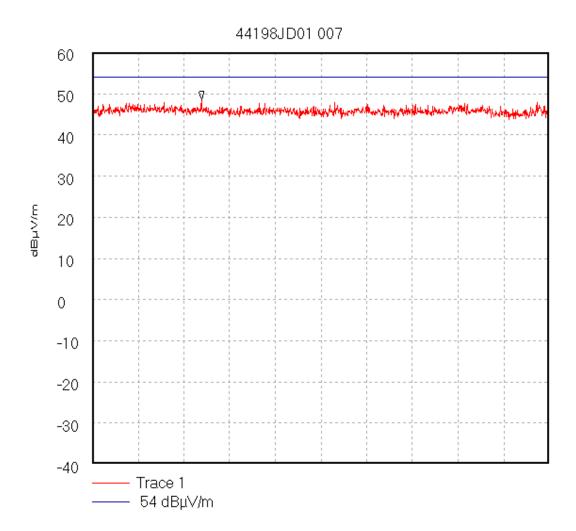
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\007 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 2.0 GHz; Stop 4.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.477778 GHz, 48.53 dBµV/m

Display Line: 54 dBµV/m; Transducer Factors: 2 to 4 05/12/2002 11:43:34 AM

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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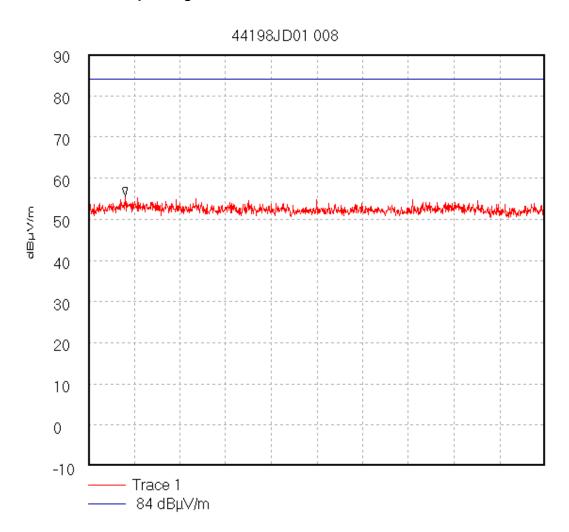
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\008 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Middle Channel.**



Start 2.0 GHz; Stop 4.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.16 GHz, 55.7 dBµV/m Display Line: 84 dBµV/m; Transducer Factors: 2 to 4 05/12/2002 11:47:49 AM

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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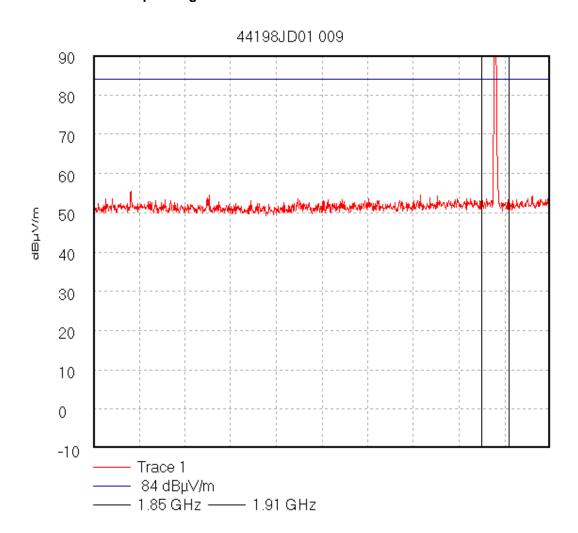
Issue Date: 23 January 2003

Test Of: Danger Inc.

Turner GSM-1900 Mobile Phone with Colour PDA

To: FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\009 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel.



Start 1.0 GHz; Stop 2.0 GHz

Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.88 GHz, 93.98 dBμV/m

Display Line: 84 dBµV/m; Transducer Factors: 1 to 2 05/12/2002 11:54:11 AM

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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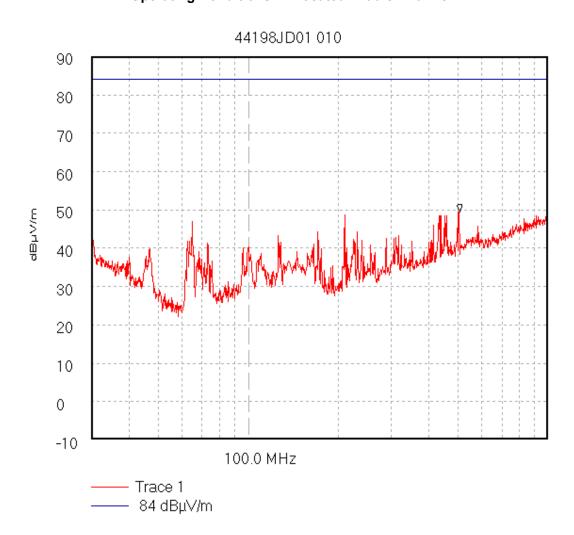
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\010 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Middle Channel.**



Start 30.0 MHz; Stop 1.0 GHz - Log Scale Ref 90 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 121.26 kHz; VBW 100.0 kHz; Att 0 dB; Swp 220.0 mS

Peak 505.690432 MHz, 49.53 dBµV/m

Display Line: 84 dBµV/m; Transducer Factors: A490 05/12/2002 12:01:32 PM

TEST REPORT

Conformance Testing Department Page

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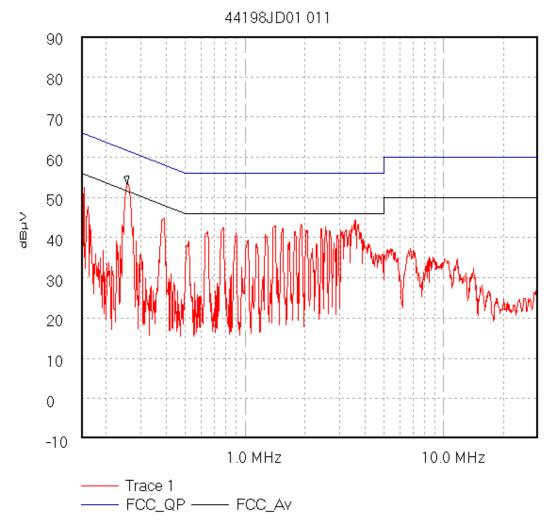
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\011 AC Mains Conducted Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 150.0 kHz; Stop 30.0 MHz - Log Scale Ref 90 dBµV; Ref Offset 0.0 dB; 10 dB/div

RBW 8.952 kHz; VBW 10.0 kHz; Att 0 dB; Swp 940.0 mS

Peak 254.797 kHz, 53.39 dBμV Limit/Mask: FCC_QP; FCC_AV;

05/12/2002 12:20:48 PM

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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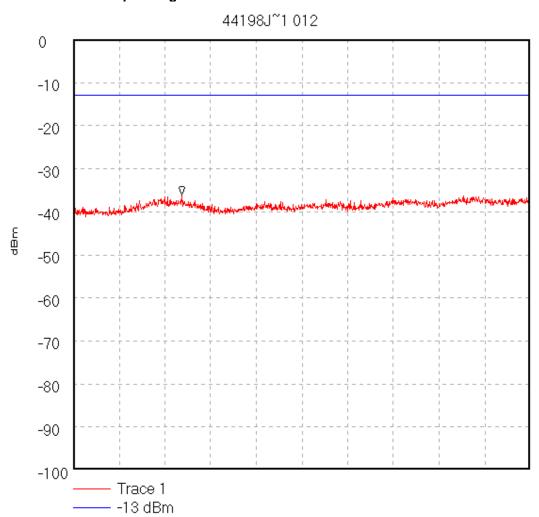
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\012 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Middle Channel.**



Start 4.0 GHz; Stop 5.0 GHz

Ref 0 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.236667 GHz, -36.13 dBm

Display Line: -13 dBm; 04/01/80 12:26:33

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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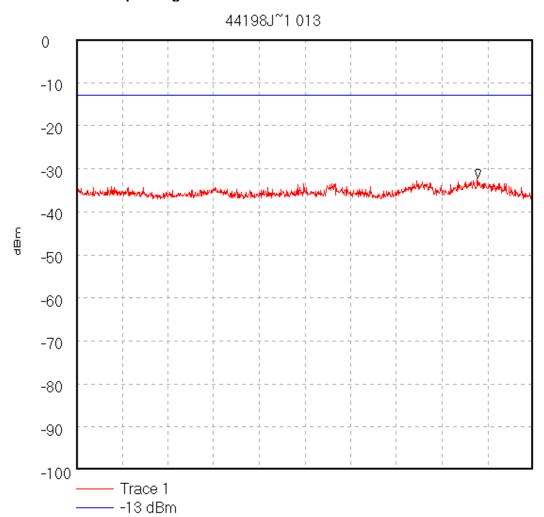
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\013 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel.



Start 5.0 GHz; Stop 6.0 GHz

Ref 0 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 5.877778 GHz, -32.14 dBm

Display Line: -13 dBm; 04/01/80 12:29:01

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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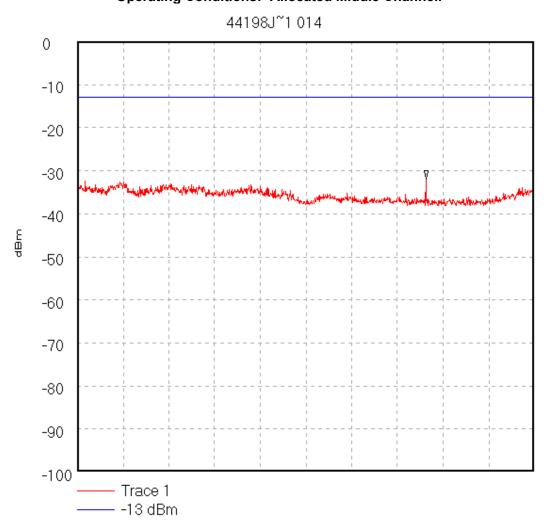
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\014 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel.



Start 6.0 GHz; Stop 8.0 GHz

Ref 0 dBm; Ref Offset 36.2 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 7.526667 GHz, -32.04 dBm

Display Line: -13 dBm; 04/01/80 12:33:47

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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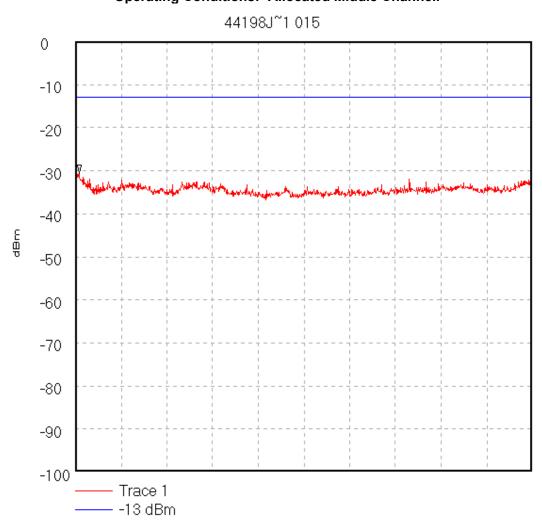
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\015 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Allocated Middle Channel.



Start 8.0 GHz; Stop 12.5 GHz

Ref 0 dBm; Ref Offset 39.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 8.035 GHz, -30.77 dBm

Display Line: -13 dBm; 04/01/80 13:01:03

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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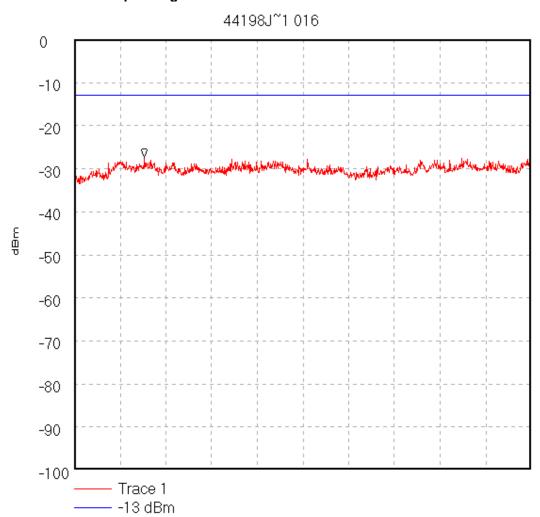
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\016 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Middle Channel.**



Start 12.5 GHz; Stop 18.0 GHz

Ref 0 dBm; Ref Offset 41.3 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 40.0 mS

Peak 13.343333 GHz, -27.37 dBm

Display Line: -13 dBm; 04/01/80 13:03:45

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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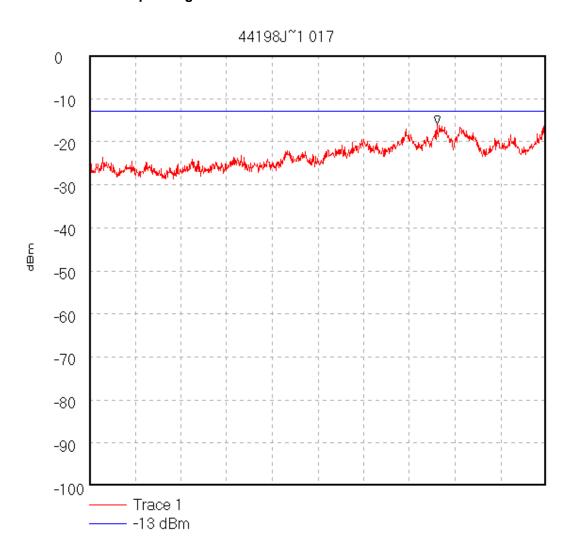
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\017 Radiated Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Middle Channel.**



Start 18.0 GHz; Stop 26.5 GHz

Ref 0 dBm; Ref Offset 54.8 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 24.469444 GHz, -15.97 dBm

Display Line: -13 dBm; 04/01/80 13:06:19

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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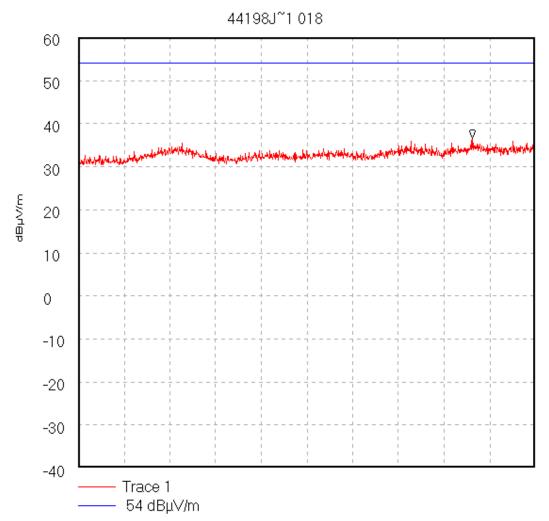
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\018 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 4.0 GHz; Stop 5.0 GHz

Ref 60 dBuV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.862222 GHz, 36.54 dBuV/m

Display Line: 54 dBµV/m;

04/01/80 13:23:10

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

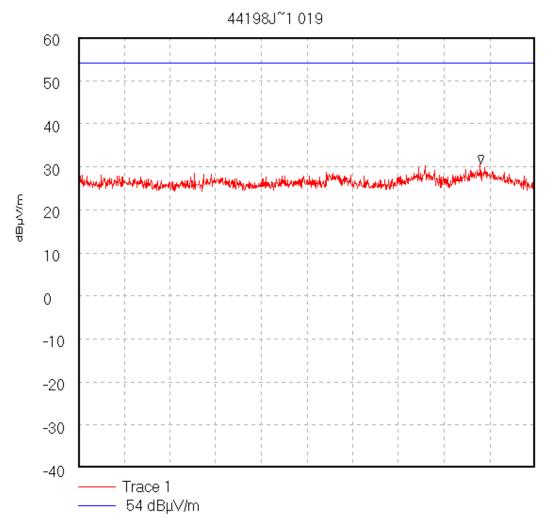
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\019 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 5.0 GHz; Stop 6.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.88 GHz, 30.73 dBμV/m Display Line: 54 dBμV/m;

04/01/80 13:24:30

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

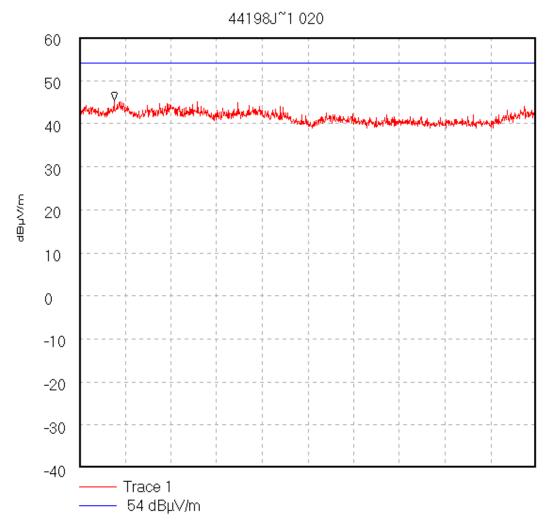
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\020 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 6.0 GHz; Stop 8.0 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 6.151111 GHz, 45.33 dBuV/m

Display Line: 54 dBµV/m;

04/01/80 13:27:07

IGATION LTD. TEST REPORT

Conformance Testing Department

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

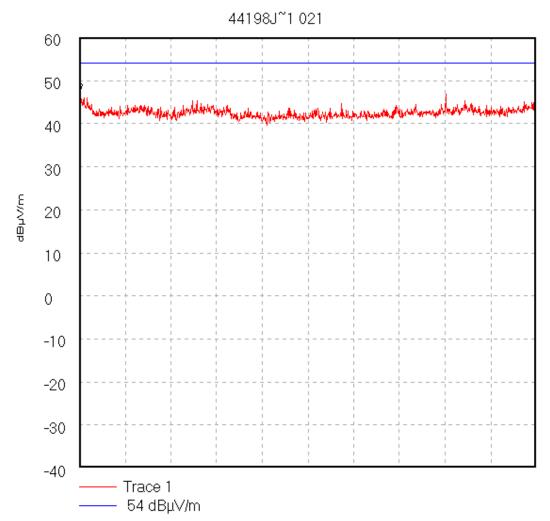
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\021 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 8.0 GHz; Stop 12.5 GHz

Ref 60 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 8.0 GHz, 47.28 dBμV/m Display Line: 54 dBμV/m;

04/01/80 13:30:47

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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Issue Date: 23 January 2003

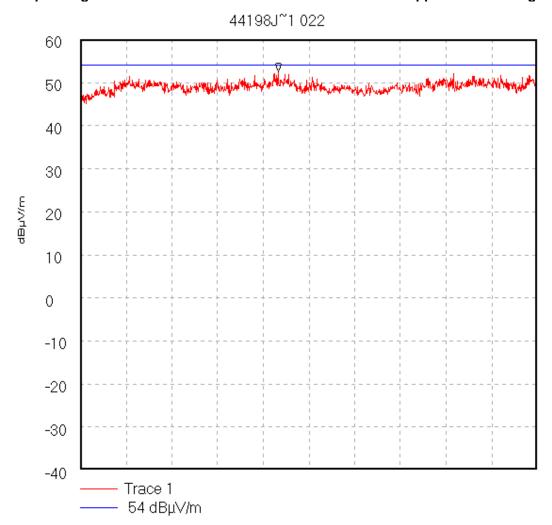
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD1\022 Radiated Spurious Emissions.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Idle Mode with "Rock and Rocket" Application running.



Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dBuV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.883333 GHz, 52.49 dBuV/m

Display Line: 54 dBµV/m;

04/01/80 13:34:31

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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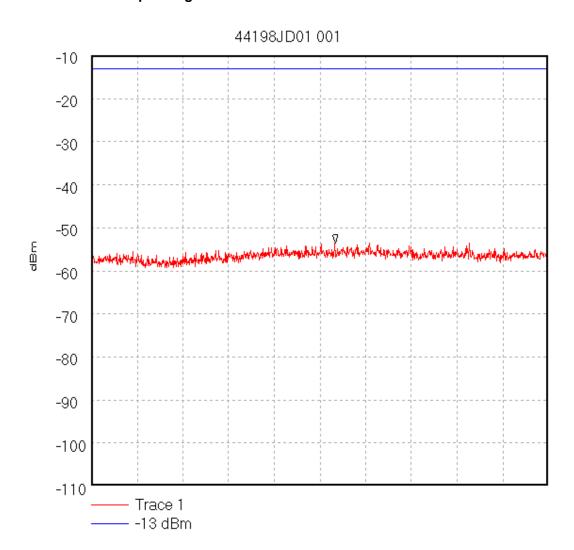
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\001a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Bottom Channel.**



Start 1.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 41.9 dB; 10 dB/div

RBW 10.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 30.0 S

Peak 533.8 MHz, -53.49 dBm

Display Line: -13 dBm; 09/12/02 11:56:33

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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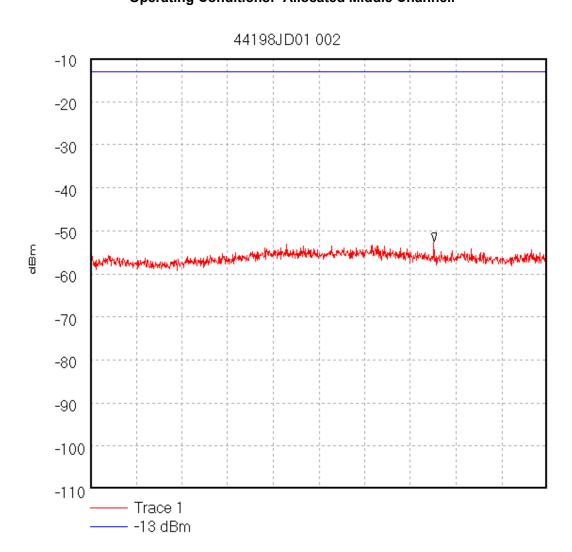
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\002a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel.



Start 1.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 41.9 dB; 10 dB/div

RBW 10.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 30.0 S

Peak 752.47 MHz. -52.58 dBm

Display Line: -13 dBm; 09/12/02 11:58:48

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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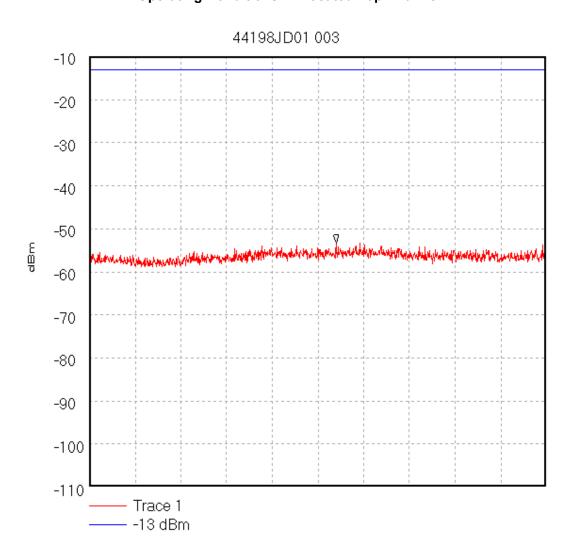
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\003a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel.



Start 1.0 MHz; Stop 1.0 GHz

Ref -10 dBm; Ref Offset 41.9 dB; 10 dB/div

RBW 10.0 kHz; VBW 10.0 kHz; Att 10 dB; Swp 30.0 S

Peak 540.46 MHz. -53.27 dBm

Display Line: -13 dBm; 09/12/02 11:59:47

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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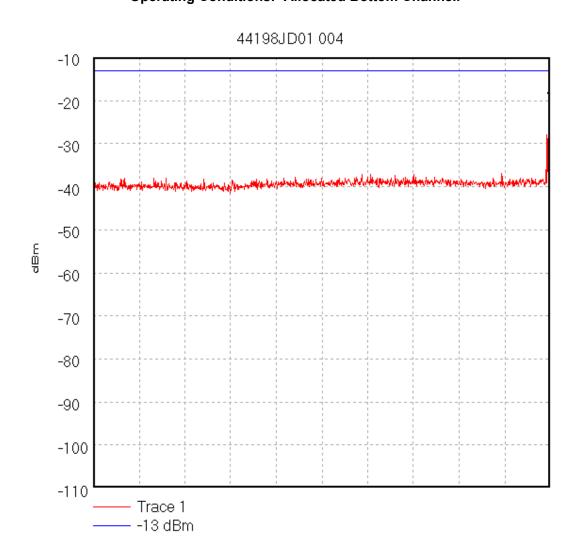
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\004a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Bottom Channel.**



Start 1.0 GHz; Stop 1.849 GHz

Ref -10 dBm; Ref Offset 41.7 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.849 GHz, -19.92 dBm

Display Line: -13 dBm; 09/12/02 12:01:37

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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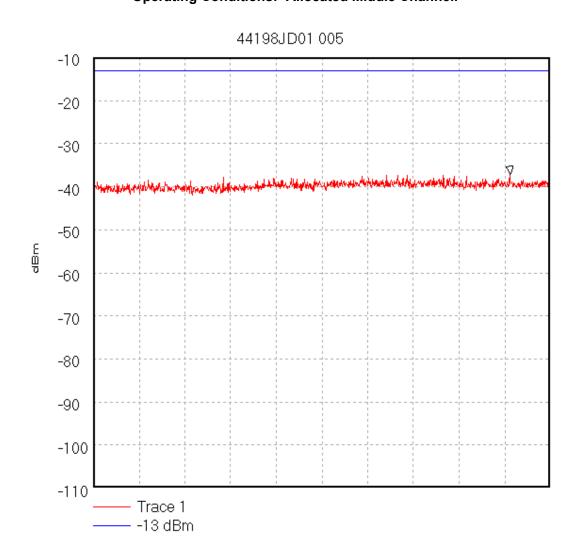
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\005a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel.



Start 1.0 GHz; Stop 1.849 GHz

Ref -10 dBm; Ref Offset 41.7 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.774477 GHz, -37.12 dBm

Display Line: -13 dBm; 09/12/02 12:02:29

TEST REPORT

Conformance Testing Department

S.No: RFI/MPTB1/RP44198JD01A

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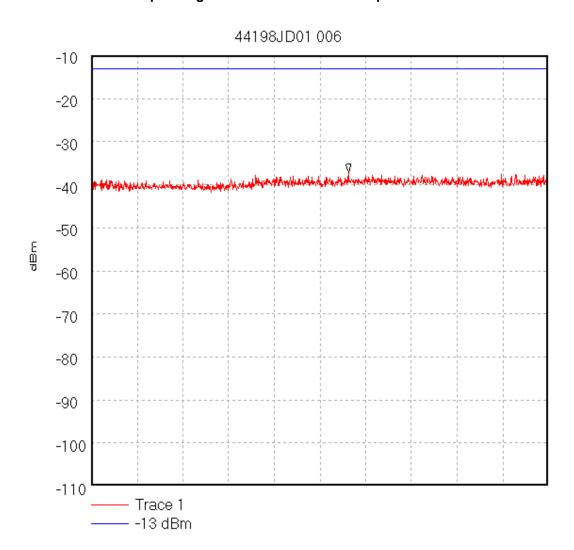
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\006a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel.



Start 1.0 GHz; Stop 1.849 GHz

Ref -10 dBm; Ref Offset 41.7 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.47827 GHz, -37.14 dBm

Display Line: -13 dBm; 09/12/02 12:03:25

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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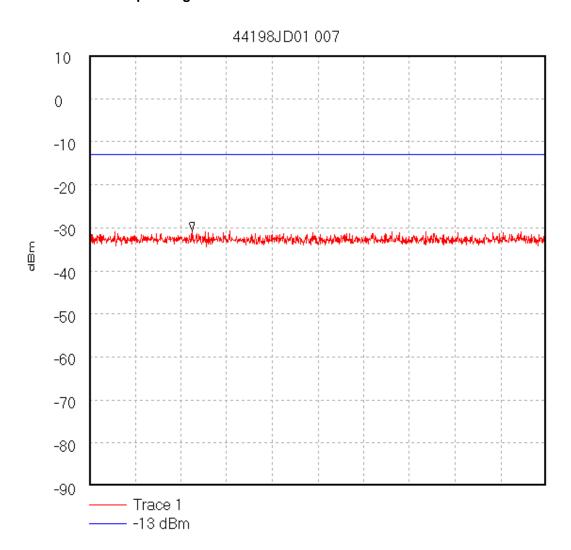
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\007a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Bottom Channel.**



Start 1.911 GHz; Stop 2.0 GHz

Ref 10 dBm; Ref Offset 41.8 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.930976 GHz, -30.73 dBm

Display Line: -13 dBm; 09/12/02 12:05:21

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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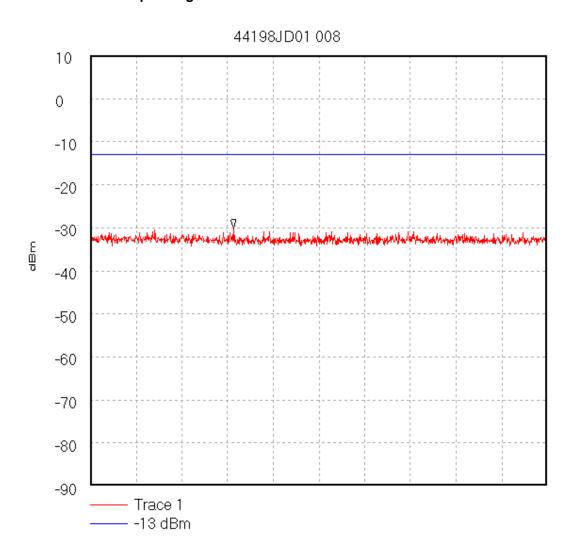
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\008a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Middle Channel.**



Start 1.911 GHz; Stop 2.0 GHz

Ref 10 dBm; Ref Offset 41.8 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.938887 GHz, -30.09 dBm

Display Line: -13 dBm; 09/12/02 12:05:59

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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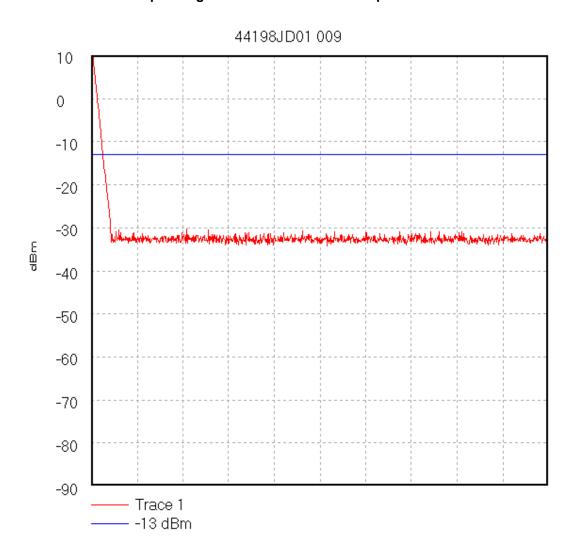
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\009a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Top Channel.**



Start 1.911 GHz; Stop 2.0 GHz

Ref 10 dBm; Ref Offset 41.8 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 1.911 GHz, 10.12 dBm

Display Line: -13 dBm; 09/12/02 12:06:32

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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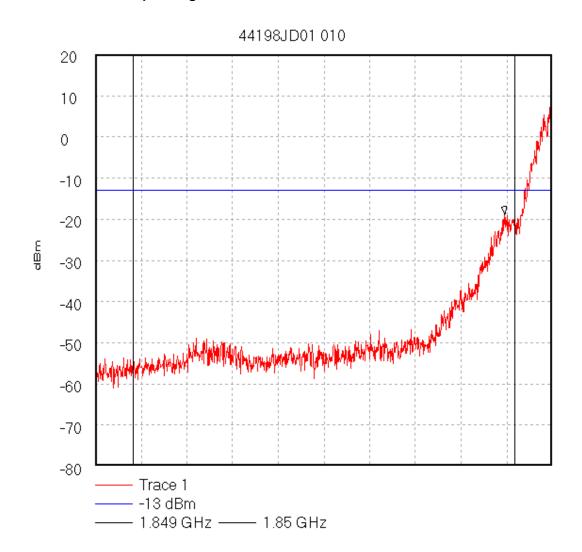
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\010a Conducted Antenna Port Band Edge. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel.



Start 1.8489 GHz; Stop 1.8501 GHz Ref 20 dBm; Ref Offset 41.7 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 400.0 mS

Marker 1.849975 GHz, -18.85 dBm

Display Line: -13 dBm; 09/12/02 12:08:11

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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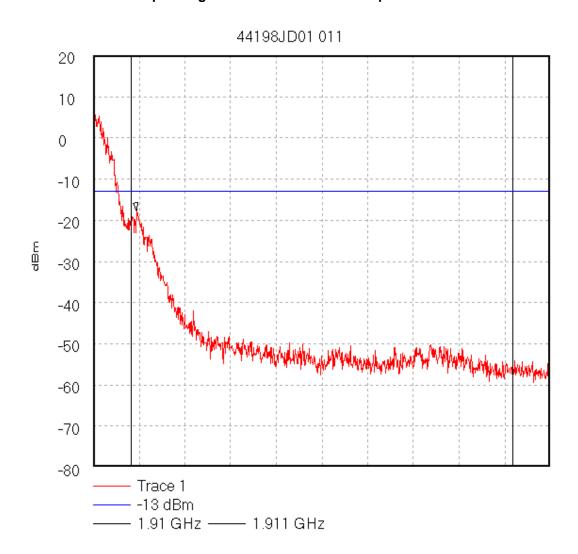
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\011a Conducted Antenna Port Band Edge. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel.



Start 1.9099 GHz; Stop 1.9111 GHz Ref 20 dBm; Ref Offset 41.8 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 400.0 mS

Marker 1.910013 GHz, -17.6 dBm

Display Line: -13 dBm; 09/12/02 12:09:52

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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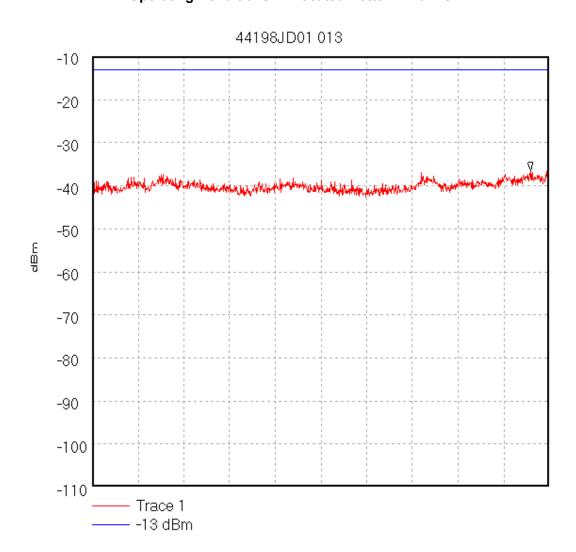
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\013a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Bottom Channel.**



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.8766666667 GHz, -36.48 dBm

Display Line: -13 dBm; 09/12/02 13:42:09

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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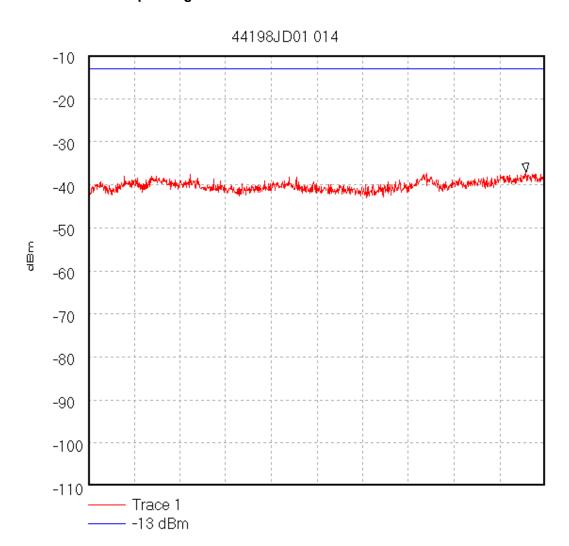
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\014a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Middle Channel.**



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.8733333333 GHz, -37.01 dBm

Display Line: -13 dBm; 09/12/02 13:42:47

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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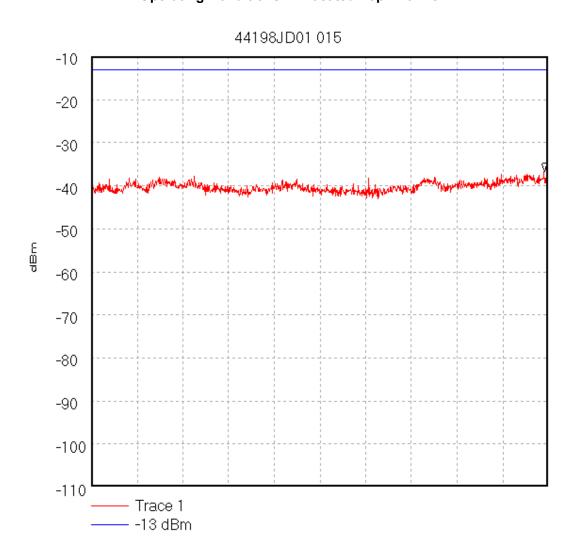
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\015a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Top Channel.**



Start 2.0 GHz; Stop 5.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.9733333333 GHz, -36.63 dBm

Display Line: -13 dBm; 09/12/02 13:43:25

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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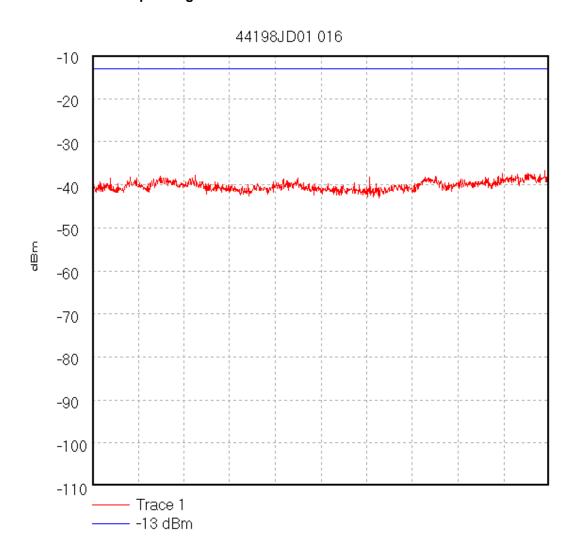
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\016a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Bottom Channel.**



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 4.9733333333 GHz, -36.63 dBm

Display Line: -13 dBm; 09/12/02 13:44:34

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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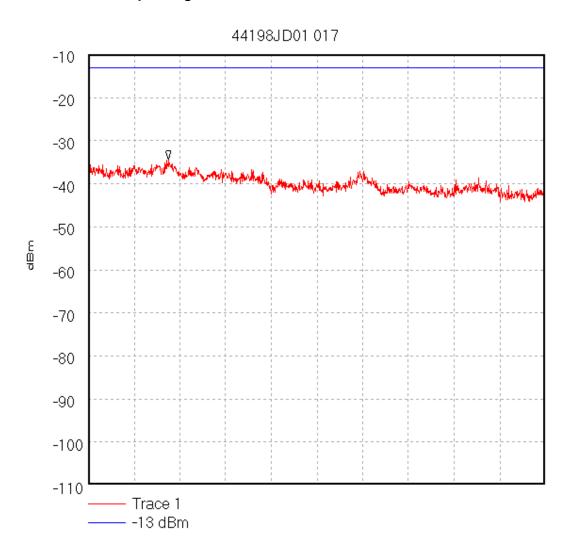
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\017a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Middle Channel.



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 5.8777777778 GHz, -34.37 dBm

Display Line: -13 dBm; 09/12/02 13:51:58

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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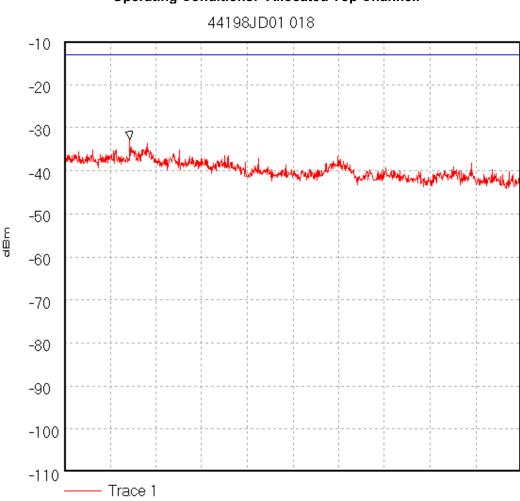
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\018a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel.



Start 5.0 GHz; Stop 10.0 GHz

Ref -10 dBm; Ref Offset 34.0 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 20.0 mS

Peak 5.7166666667 GHz, -32.77 dBm

Display Line: -13 dBm; 09/12/02 13:52:22

- -13 dBm

TEST REPORT

Conformance Testing Department

S.No: RFI/MPTB1/RP44198JD01A

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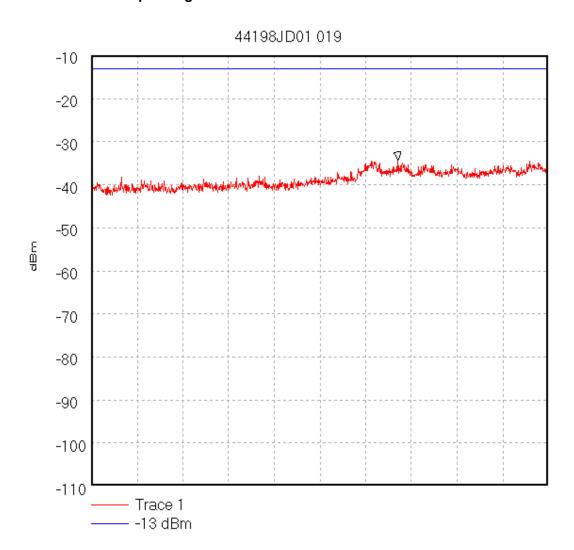
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\019a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel.



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 34.5 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 13.3555555556 GHz, -34.35 dBm

Display Line: -13 dBm; 09/12/02 13:53:34

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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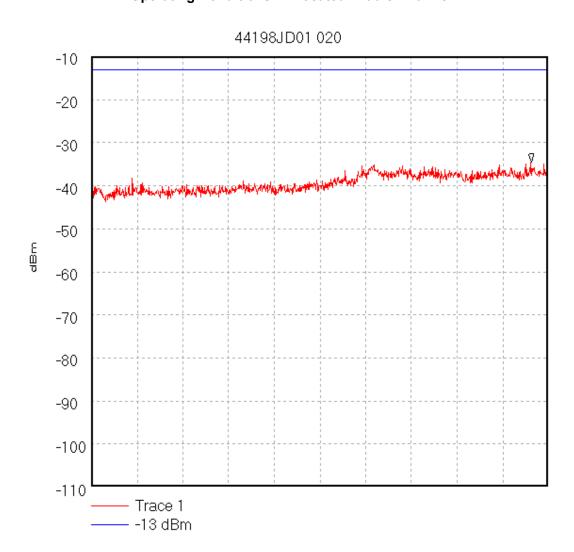
Issue Date: 23 January 2003

Danger Inc. Test Of:

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\020a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Middle Channel.**



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 34.5 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 14.8111111111 GHz, -34.55 dBm

Display Line: -13 dBm; 09/12/02 13:54:01

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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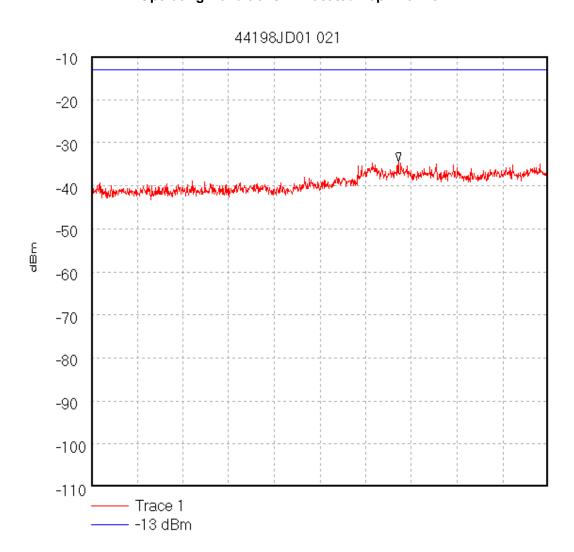
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\021a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Top Channel.



Start 10.0 GHz; Stop 15.0 GHz

Ref -10 dBm; Ref Offset 34.5 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 13.3611111111 GHz, -34.37 dBm

Display Line: -13 dBm; 09/12/02 13:54:24

Conformance Testing Department

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

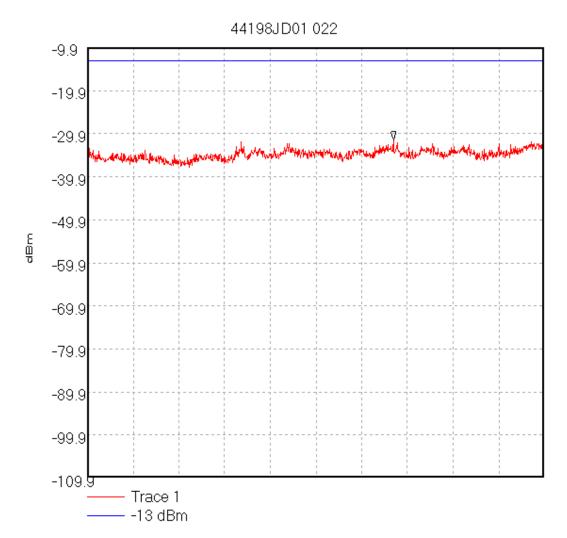
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\022a Conducted Antenna Port Spurious Emissions. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 Operating Conditions:- Allocated Bottom Channel.

nditions:- Allocated Bottom Channel



Start 15.0 GHz; Stop 20.0 GHz

Ref -9.9 dBm; Ref Offset 36.2 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 18.35 GHz, -31.3 dBm

Display Line: -13 dBm; 09/12/02 13:56:05

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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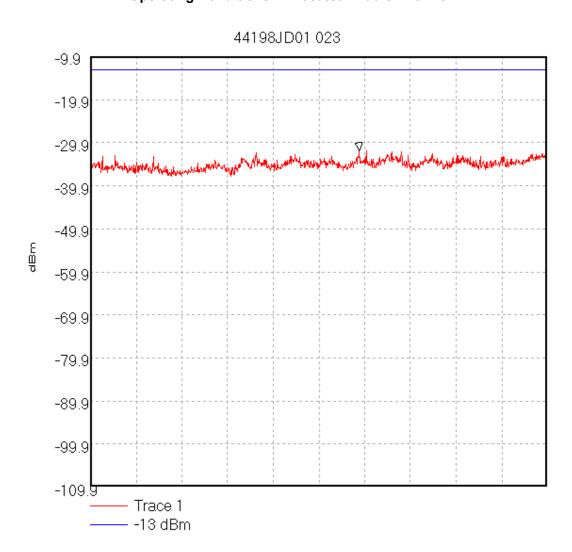
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\023a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Middle Channel.**



Start 15.0 GHz; Stop 20.0 GHz

Ref -9.9 dBm; Ref Offset 36.2 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 17.9444444444 GHz, -31.78 dBm

Display Line: -13 dBm; 09/12/02 13:56:39

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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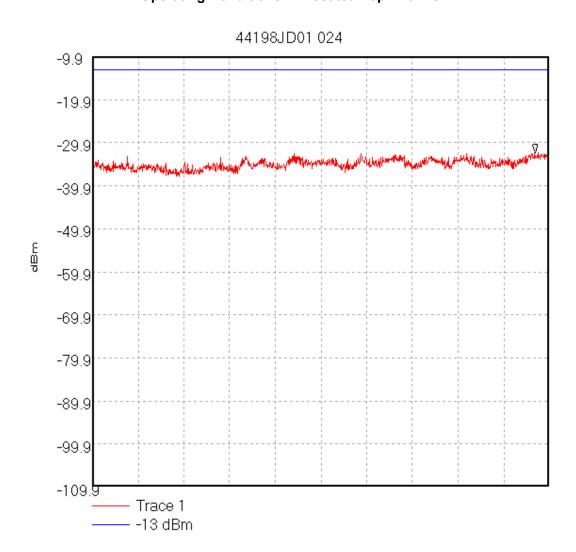
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01\024a **Conducted Antenna Port Spurious Emissions.** Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000034960 **Operating Conditions:- Allocated Top Channel.**



Start 15.0 GHz; Stop 20.0 GHz

Ref -9.9 dBm; Ref Offset 36.2 dB; 10 dB/div

RBW 1.0 MHz; VBW 1.0 MHz; Att 10 dB; Swp 100.0 mS

Peak 19.8444444444 GHz, -32.27 dBm

Display Line: -13 dBm; 09/12/02 13:57:08

TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A **Conformance Testing Department**

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Issue Date: 23 January 2003

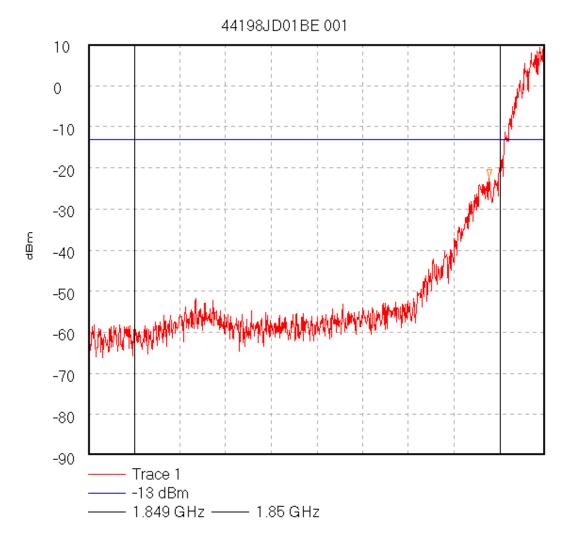
Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01BE\001 Radiated Band Edge.

Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 **Operating Conditions:- Allocated Bottom Channel.**



Start 1.848875 GHz; Stop 1.850125 GHz Ref 10 dBm; Ref Offset 30.6 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 420.0 mS

Marker 1.849972 GHz, -22.4 dBm

Display Line: -13 dBm; 16/12/02 15:10:12

TEST REPORT

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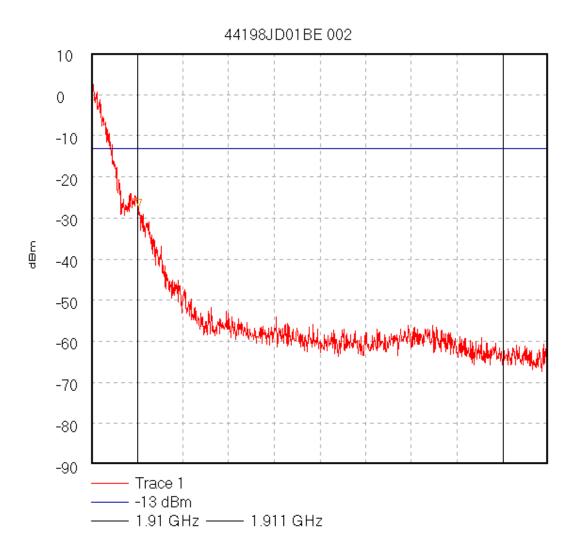
Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

GPH\44198JD01BE\002 Radiated Band Edge. Radiated Band Edge. Test for Danger Inc of Turner PDA/Mobile station. IMEI:- 001028000035010 Operating Conditions:- Allocated Top Channel.



Start 1.909875 GHz; Stop 1.911125 GHz Ref 10 dBm; Ref Offset 29.4 dB; 10 dB/div

RBW 3.0 kHz; VBW 3.0 kHz; Att 10 dB; Swp 420.0 mS

Marker 1.910004 GHz, -27.43 dBm

Display Line: -13 dBm; 16/12/02 15:23:55 RADIO FREQUENCY INVESTIGATION LTD. TEST REPORT

S.No: RFI/MPTB1/RP44198JD01A

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Issue Date: 23 January 2003

Test Of: Danger Inc.

To:

Turner GSM-1900 Mobile Phone with Colour PDA FCC Part 24: 2001, FCC Part 15: 2001 and Part 2: 2001

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