

SUPPLEMENTARY TEST REPORT FROM RADIO FREQUENCY INVESTIGATION LTD.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Supplementary Test Report Serial No.:
RFI/MPTB1/SUP15341A

This Supplementary Test Report Is Issued Under The Authority Of Richard Jacklin, Operations Director: 	Checked By: 
Tested By: 	Release Version No: PDF01
Issue Date: 15 May 2002	

This supplementary report, supplements RFI Test Report Serial No: RFI/MPTB1/RP15341A.

This supplementary report has been issued as requested by the TCB.

This supplementary report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the supplementary report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields. Furthermore, the date of creation must match the issue date stated above. This supplementary report may be copied in full. The results in this supplementary report apply only to the sample(s) tested.

Test Of: **Danger Inc.**
 Hiptop GSM 1900 Mobile Phone

To: **FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)**
 and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

This page has been left intentionally blank.

Test Of: **Danger Inc.**
 Hiptop GSM 1900 Mobile Phone
To: **FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)**
 and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

CONTENTS

1. Client Information..... 4

2. Equipment Under Test (EUT)..... 5

3. Test Method 9

Appendix 1. Graphical Test Results..... 10

Test Of: **Danger Inc.**
 Hiptop GSM 1900 Mobile Phone
To: **FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)**
 and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

1. Client Information

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

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification Of Equipment Under Test (EUT)

Brand Name:	Danger
Model Name or Number:	Hiptop
Unique Type Identification:	Not Stated by Client
Serial Number:	00102200002803
Country of Manufacture:	Thailand
FCC ID Number:	P5J-FYMASMBD-01
Date of Receipt:	11 February 2002

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 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.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

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:	184 g
Dimensions:	120 mm x 67 mm x 30 mm
Interface Ports:	2.5 mm Jack headset/camera port 2.5 mm Jack Power port USB Downlink Port Infra-Red Port
Transmit Frequency	B, M and T (1850.2, 1880.0 and 1909.8 MHz)
Receive Frequency	B, M and T (1930.2, 1960.0 and 1989.8 MHz)
Maximum Power Output	1 Watts Max

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

2.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Digital Camera
Brand Name:	Kyocera
Model Name or Number:	HC-D01
Serial Number:	Not Stated by Client
FCC ID Number:	Not Applicable
Cable Length And Type:	Not Stated by Client
Connected to Port:	2.5 mm Jack Plug socket

Description:	USB Cable
Brand Name:	Copartner
Model Name or Number:	E188601
Serial Number:	Not Stated by Client
FCC ID Number:	Not Applicable
Cable Length And Type:	183 cm
Connected to Port:	USB Downlink Port

Description:	Battery Charger
Brand Name:	Not Stated by Client
Model Name or Number:	Not Stated by Client
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

Test Of: **Danger Inc.**
 Hiptop GSM 1900 Mobile Phone
To: **FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)**
 and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Support Equipment (continued)

Description:	Head Set
Brand Name:	Not Stated by Client
Model Name or Number:	Not Stated by Client
Serial Number:	Not Stated by Client
FCC ID Number:	Not Applicable
Cable Length And Type:	Not Stated by Client
Connected to Port:	2.5 mm Jack Plug socket

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

3. Test Method

Conducted Antenna Port Measurements: FCC Part 24.238:

Spurious measurements at the Antenna port were performed from 1 MHz to 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 (26 GHz).

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.

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.

Measurements were also made in the 1 MHz bands, immediately adjacent to the band edges of the frequency block, using a resolution bandwidth of at least 1% of the occupied bandwidth (300kHz), as per FCC Part 24.238 (b). The resolution bandwidth was thus set to 3kHz.

Attention must be paid to the fact that none intentional emissions such as those generated in the PDA/Receiver mode, were measured using a Quasi-Peak (CISPR) detector for emissions below 1 GHz. For all intentional emissions generated in the transmit mode, final measurements were performed using a PEAK detector for the full frequency range.

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: (PDA/Receiver Mode)	Peak	Quasi-Peak (CISPR)	Peak/Average
Detector Type: (Transmitter Mode)	Peak	Peak	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.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Appendix 1. Graphical Test Results

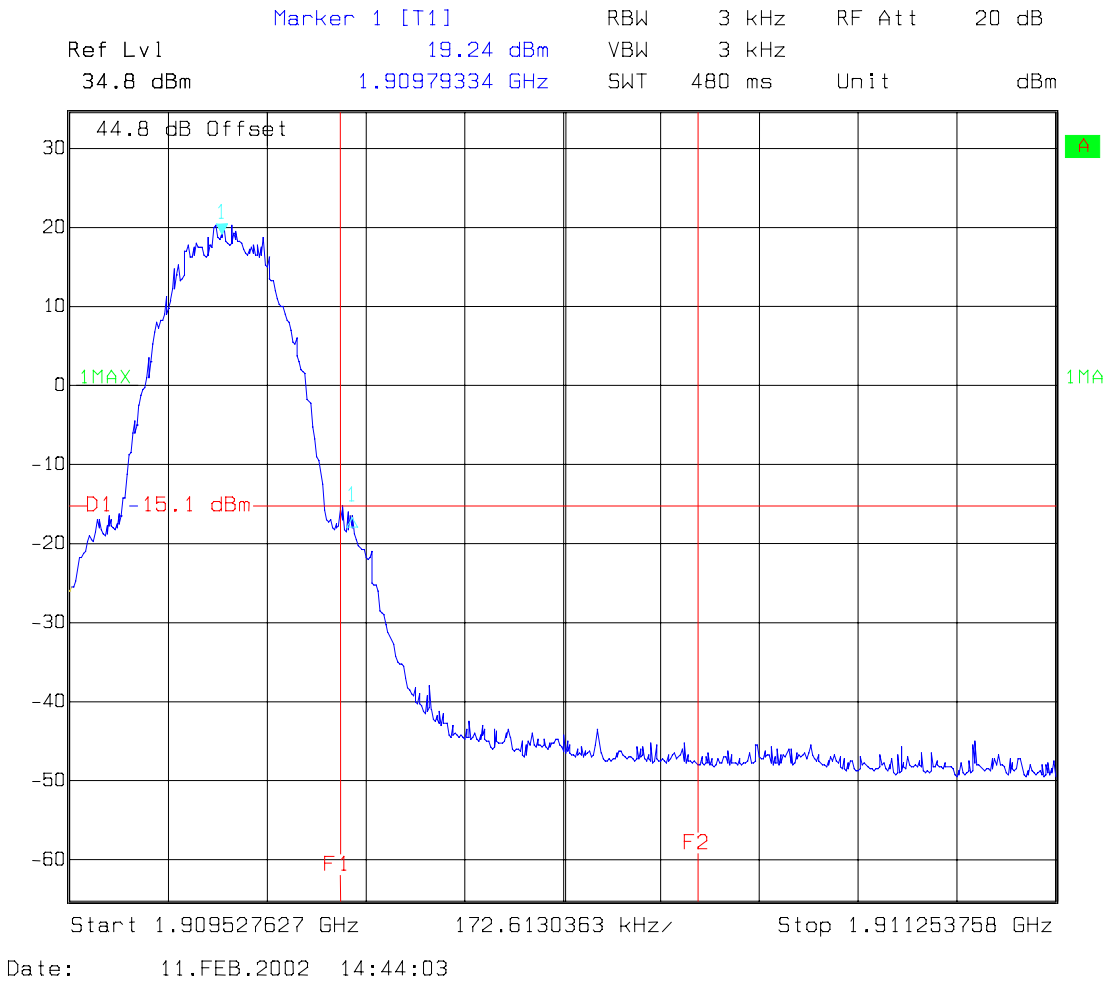
This section contains the following graphs:

Conducted Band Edge	Title
GPH\15341\100	Bandwidth Edge - Top Channel
GPH\15341\101	Bandwidth Edge - Bottom Channel

Occupied Bandwidth	Title
GPH\15341\102	Occupied Bandwidth - Top Channel
GPH\15341\103	Occupied Bandwidth - Middle Channel
GPH\15341\104	Occupied Bandwidth - Bottom Channel

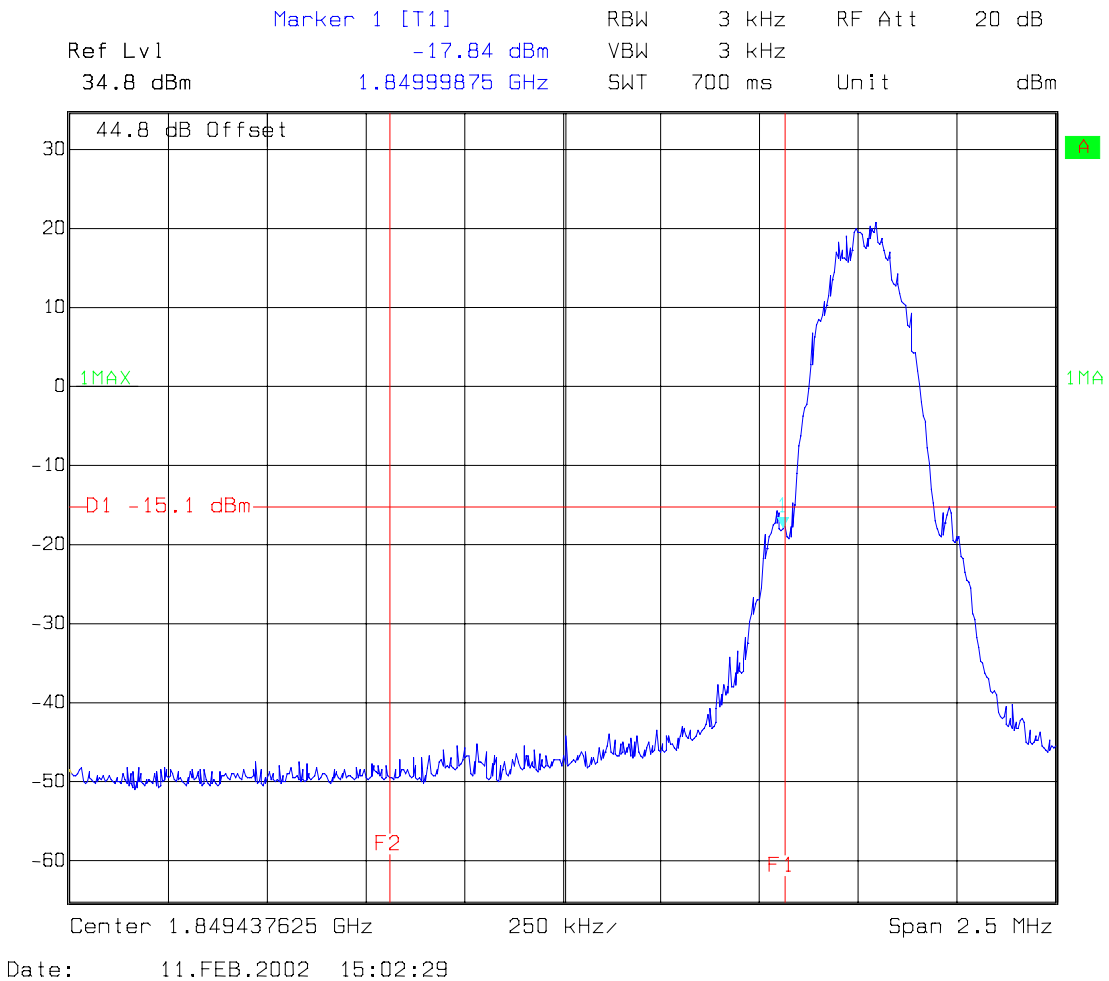
Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Bandwidth Edge-Top Channel - GPH\15341\100

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

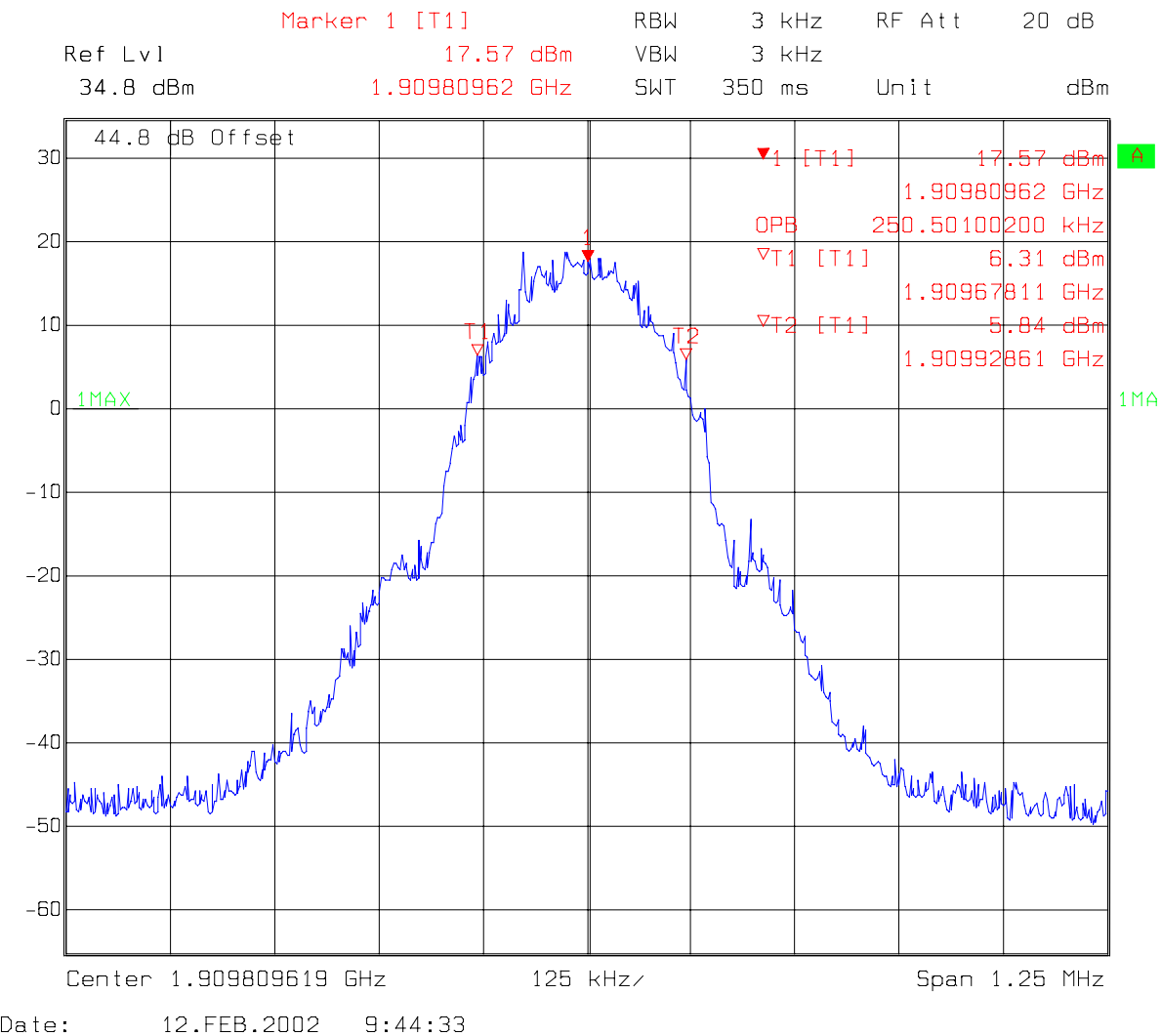
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Band Edge- Bottom Channel - GPH\15341\101

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

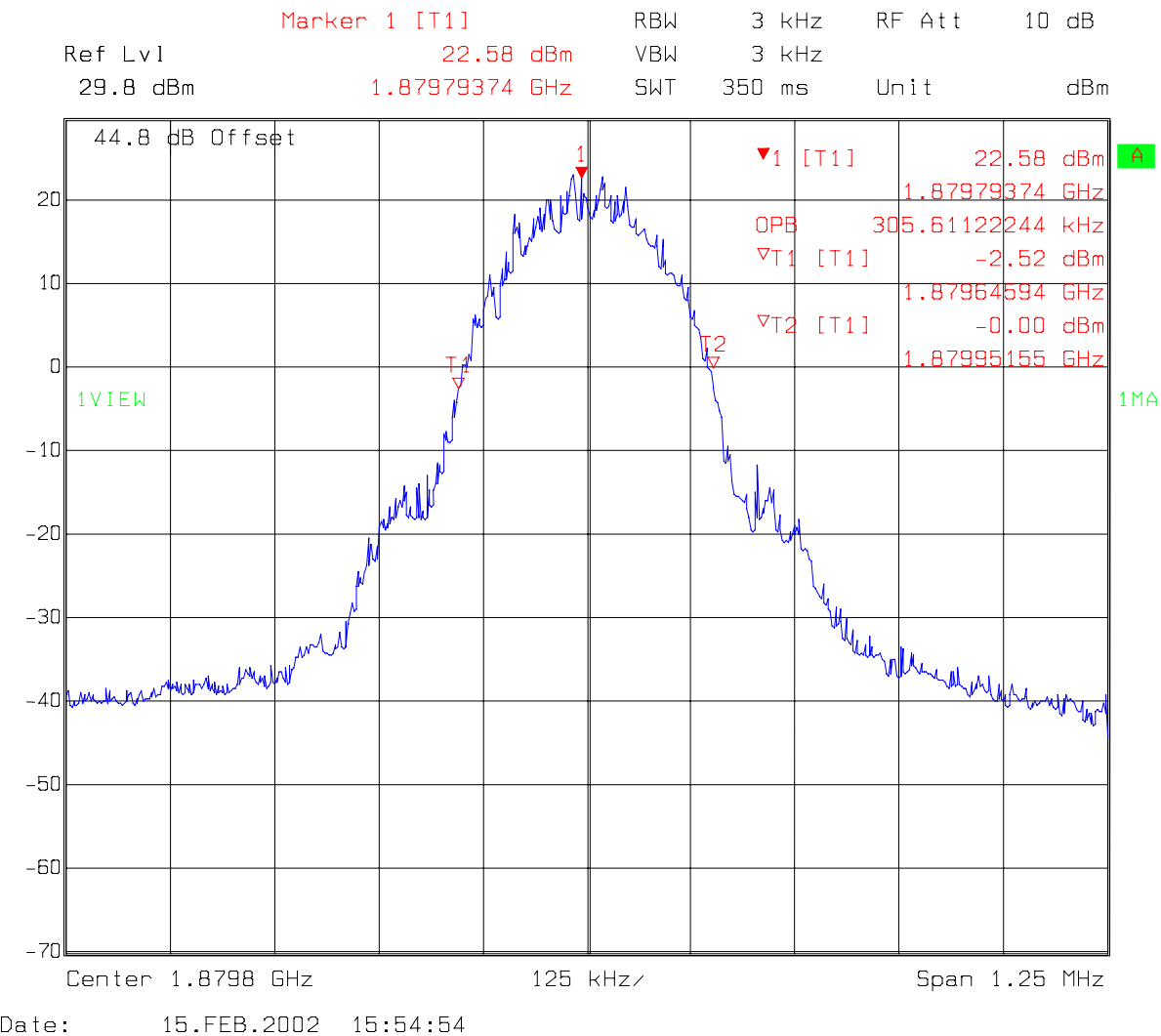
Occupied Bandwidth- Top Channel - GPH\15341\102



Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

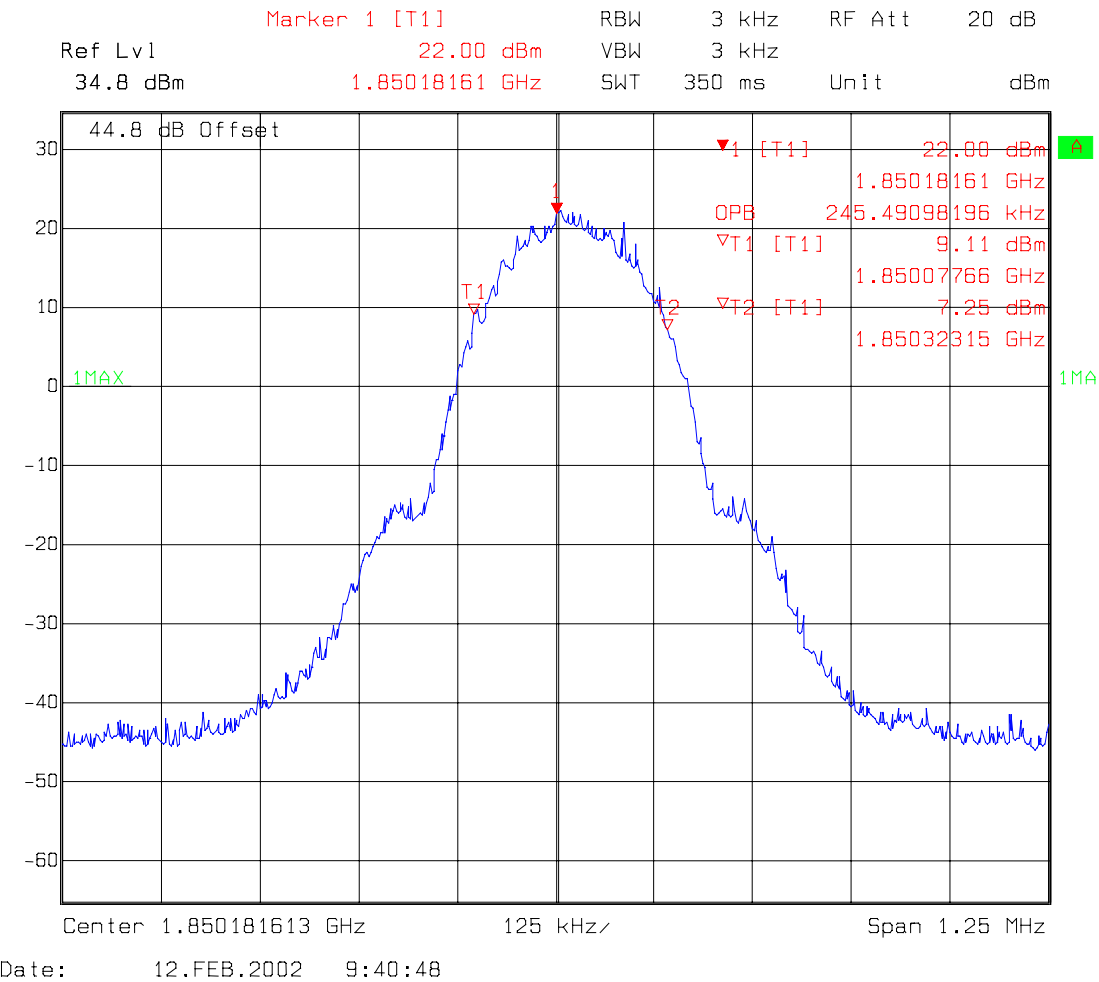
Occupied Bandwidth- Middle Channel - GPH\15341\103



Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Occupied Bandwidth- Bottom Channel - GPH\15341\104



Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Conducted Antenna Port Emissions (Top Channel) - Graphical Test Results

This section contains the following graphs provided for information only:

Conducted Antenna Port Emissions (Top Channel)	Title
GPH\15341\024	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\025	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\026	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\048	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\049	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\029	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\030	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\031	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\032	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\033	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\034	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\035	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\036	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\038	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\039	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

**Conducted Antenna Port Emissions (Top Channel) - Graphical Test Results
(continued)**

Conducted Antenna Port Emissions (Top Channel)	Title
GPH\15341\040	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\041	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\042	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\043	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\044	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\045	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.
GPH\15341\046	FCC part 15.238. Operating Condition: Channel 810 Tx High Power.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Conducted Antenna Port Emissions (Bottom Channel) - Graphical Test Results

Conducted Antenna Port Emissions (Bottom Channel)	Title
GPH\15341\022	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\023	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\001	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\002	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\003	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\004	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\005	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\006	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\007	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\008	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\009	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\010	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\011	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\012	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\013	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\014	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\015	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Conducted Antenna Port Emissions (Bottom Channel) - Graphical Test Results (continued)

Conducted Antenna Port Emissions (Bottom Channel)	Title
GPH\15341\016	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\020	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\017	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\018	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.
GPH\15341\019	FCC part 15.238. Operating Condition: Channel 512 Tx High Power.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Radiated Pre-scans (Idle Mode) - Graphical Test Results

Radiated Emissions	Title
GPH\15341b\010	FCC Part 15.109 Class B. PreScan @ 3m. Operating Condition: Idle.
GPH\15341b\011	FCC Part 15.109 Class B. PreScan @ 1m. Operating Condition: Idle.
GPH\15341b\012	FCC Part 15.109 Class B. PreScan @ 1m. Operating Condition: Idle.
GPH\15341C\004	Operating Condition: Idle Mode.
GPH\15341C\003	Operating Condition: Idle Mode.
GPH\15341C\006	Operating Condition: Idle Mode.
GPH\15341C\007	Operating Condition: Idle Mode @ 1m.
GPH\15341C\010	Operating Condition: Idle Mode @ 1m.
GPH\15341C\011	Operating Condition: Idle Mode @ 1m.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

Radiated Pre-scans (Middle Channel 660) - Graphical Test Results

Radiated Emissions	Title
GPH\15341b\015	FCC Part 15.209 Class B. PreScan @ 3m. Operating Condition: Channel 660 Tx High Power.
GPH\15341b\018	FCC Part 15.209 Class B. PreScan @ 3m. Operating Condition: Channel 660 Tx High Power.
GPH\15341b\008	FCC Part 15. 15.209. Operating Condition: Channel 660 Tx High Power.
GPH\15341b\001	FCC Part 15. 15.209. Operating Condition: Channel 660 Tx High Power.
GPH\15341b\004	FCC Part 15. 15.209. Operating Condition: Channel 660 Tx High Power.
GPH\15341C\001	Operating Condition: Channel 660 Tx High Power.
GPH\15341C\002	Operating Condition: Idle Mode.
GPH\15341C\005	Operating Condition: Idle Mode.
GPH\15341C\008	Operating Condition: Channel 660 Tx High Power @ 1m.
GPH\15341C\009	Operating Condition: Channel 660 Tx High Power @ 1m.
GPH\15341C\012	Operating Condition: Channel 660 Tx High Power @ 1m.

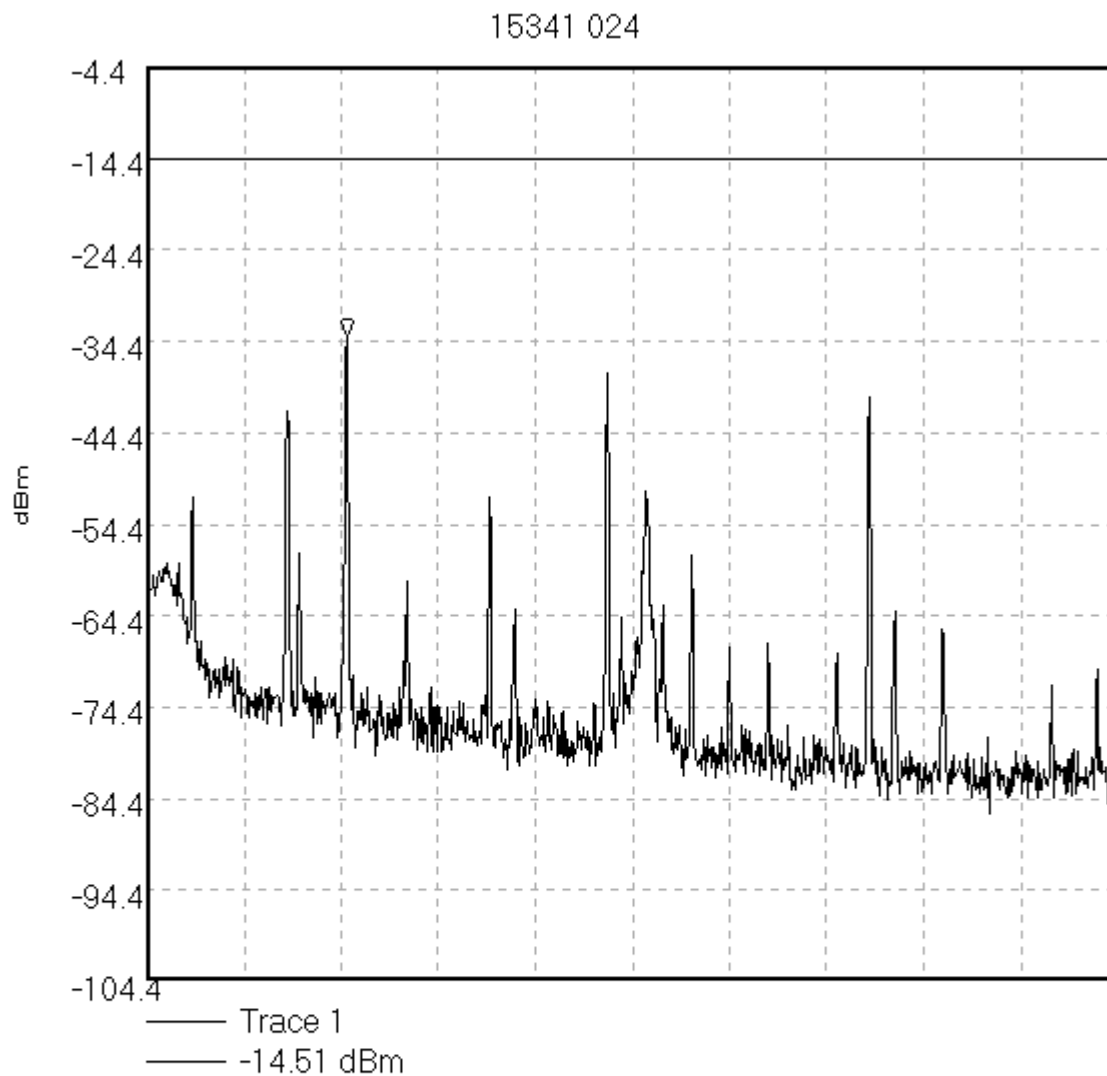
Conducted Emissions AC Powerline - Graphical Test Results

Conducted Emissions	Title
GPH\15341b\021	FCC Part 15.207. Operating Condition: Channel 660 Tx High Power.
GPH\15341b\020	FCC Part 15.207. Operating Condition: Channel 512 Tx High Power.
GPH\15341b\022	FCC Part 15.207. Operating Condition: Channel 810 Tx High Power.

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\024

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 9.0 kHz; Stop 150.0 kHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 200.0 Hz; VBW 300.0 Hz; Att 5 dB; Swp 24.0 S

Peak 37.983 kHz, -33.98 dBm

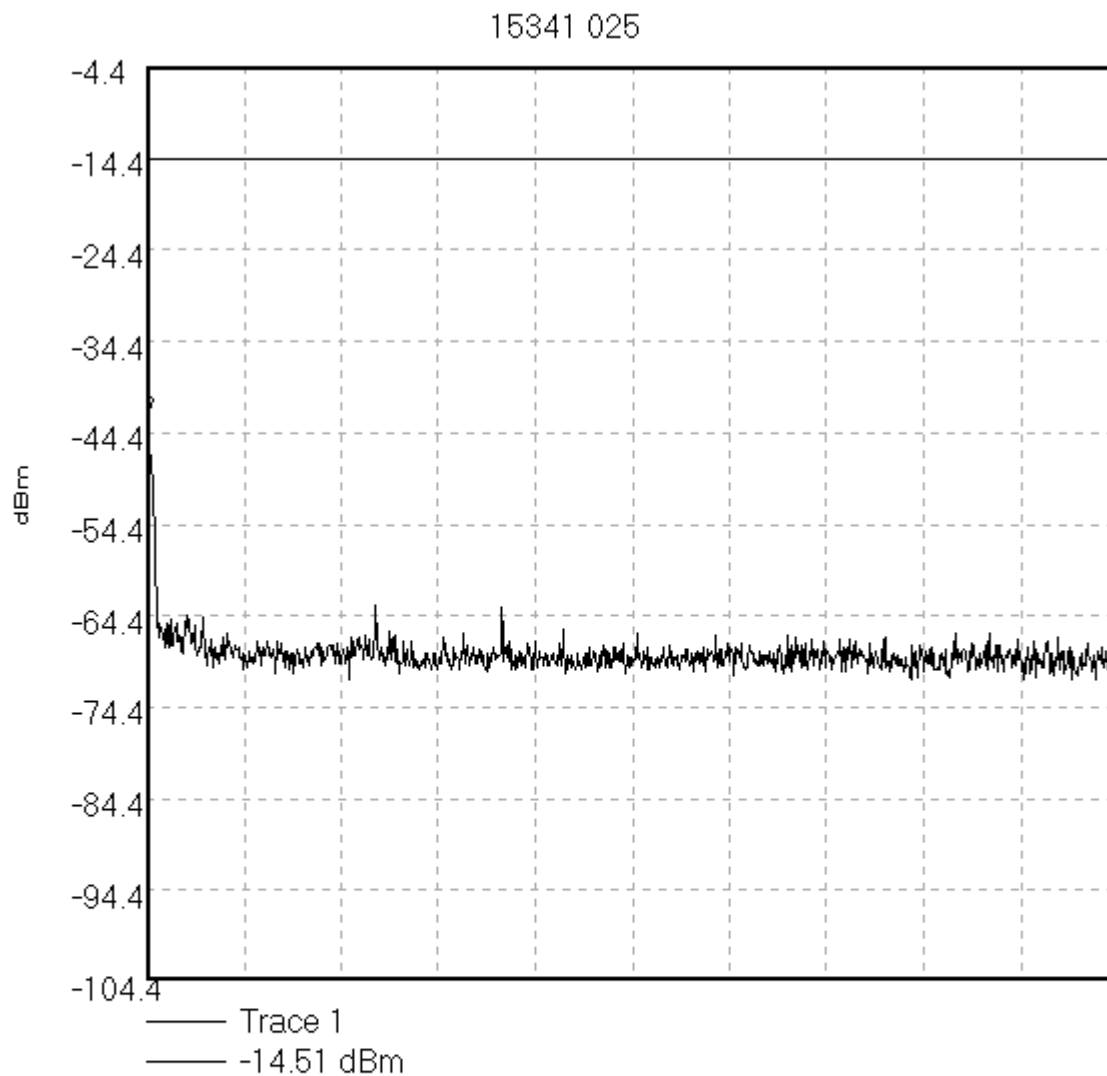
Limit/Mask: Limit Test Passed

13/02/02 11:05:56

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\025

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 150.0 kHz; Stop 30.0 MHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 10.0 kHz; VBW 10.0 kHz; Att 5 dB; Swp 1.9 S

Peak 150.0 kHz, -42.43 dBm

Limit/Mask: Limit Test Passed

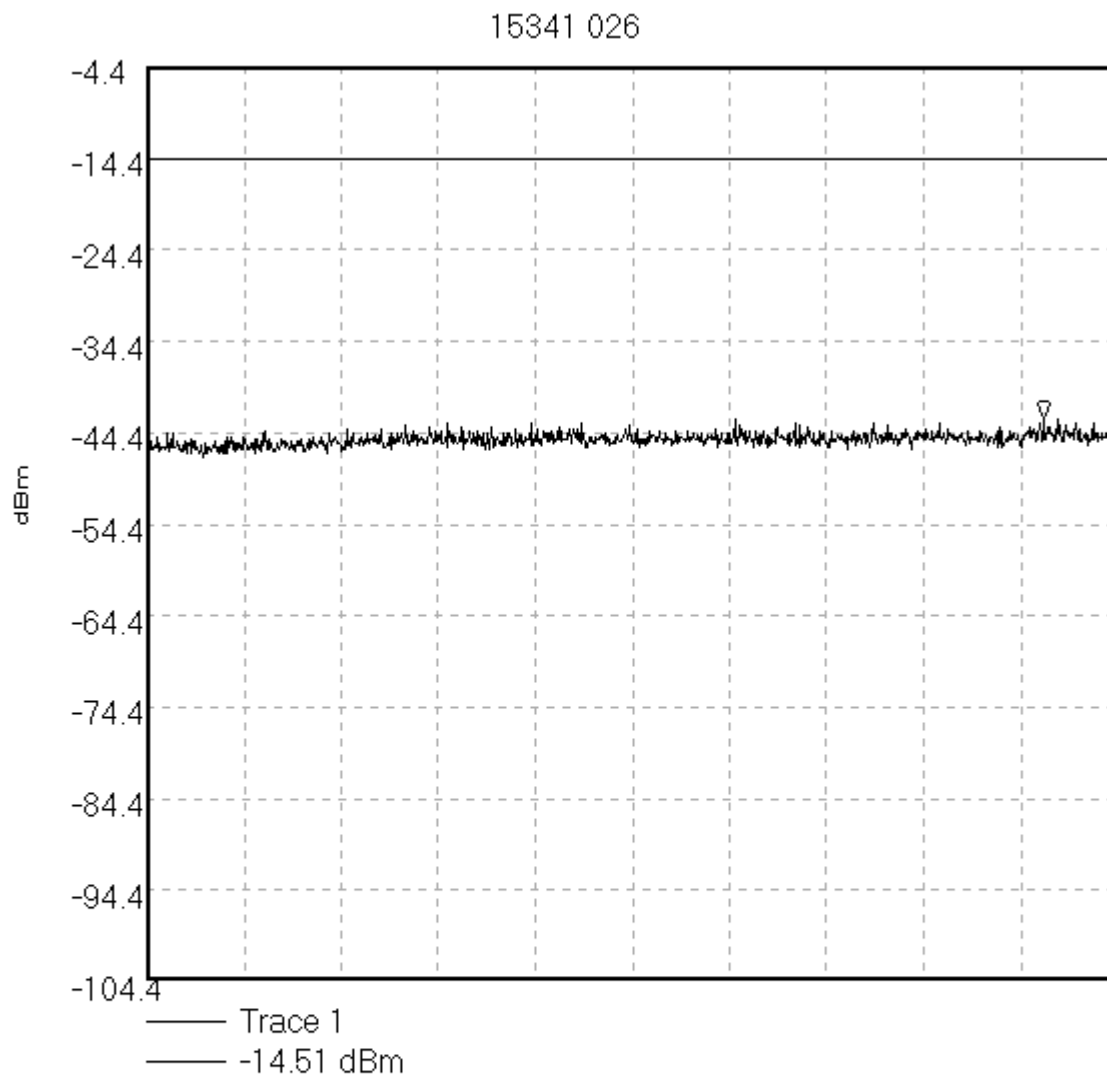
13/02/02 11:06:49

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\026

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 30.0 MHz; Stop 1.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 926.711 MHz, -42.87 dBm

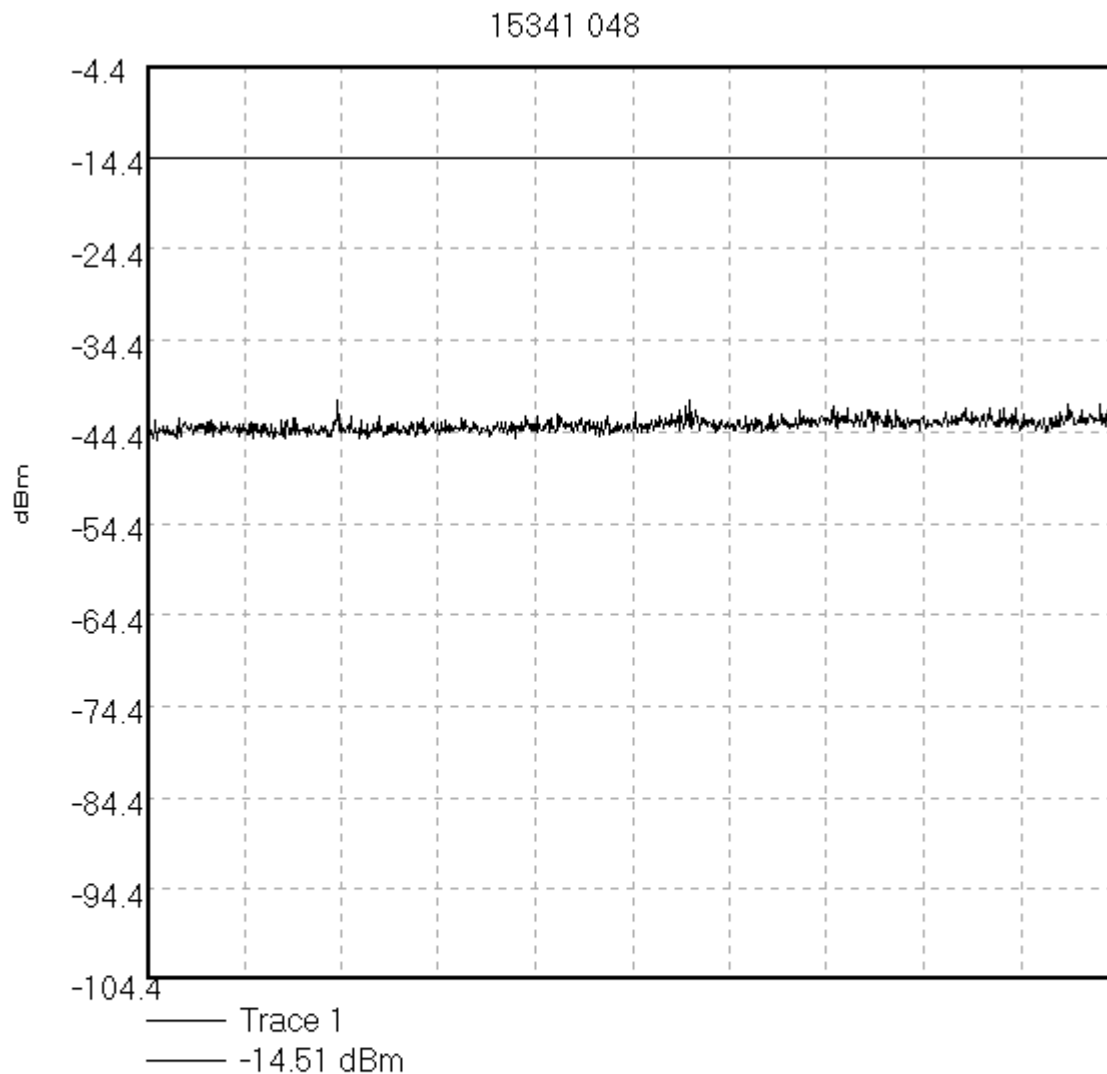
Limit/Mask: Limit Test Passed

13/02/02 11:08:09

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\048

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 1.0 GHz; Stop 1.905 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.903 GHz, -19.35 dBm

Limit/Mask: Limit Test Passed

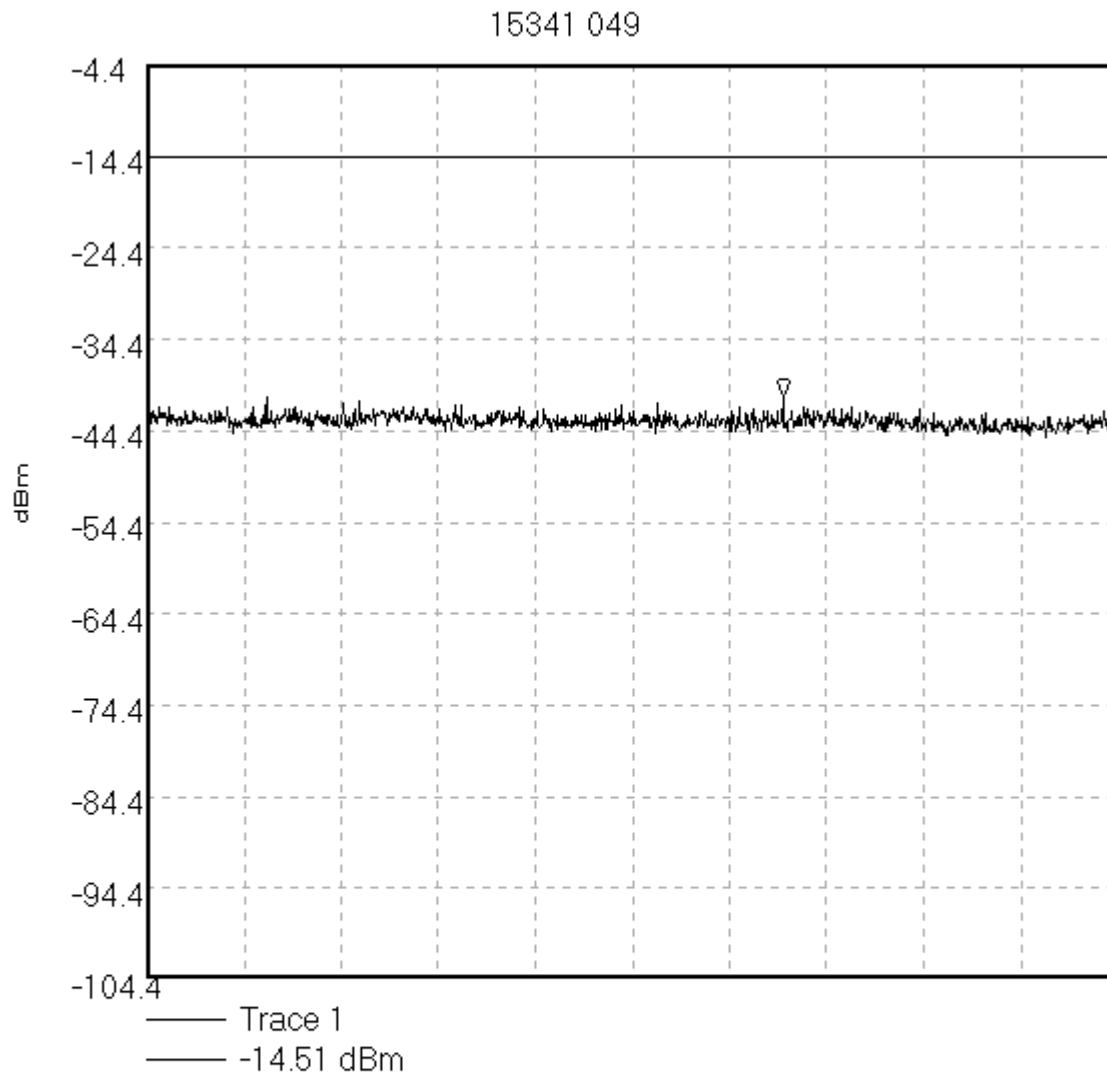
13/02/02 11:28:35

Test Of: Danger Inc.

Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\049

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.

Start 1.915 GHz; Stop 3.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 2.626 GHz, -40.66 dBm

Limit/Mask: Limit Test Passed

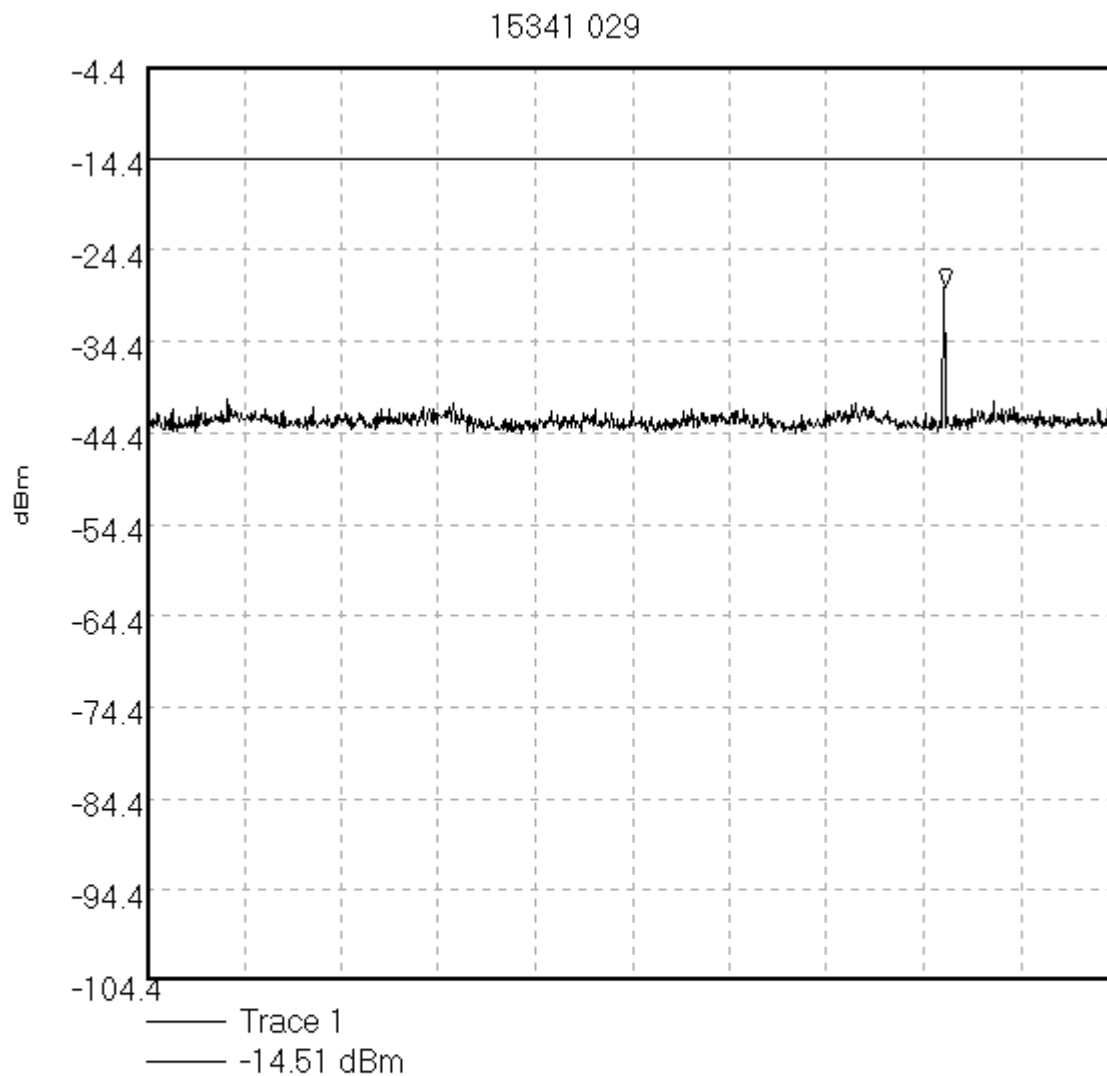
13/02/02 11:29:46

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\029

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 3.0 GHz; Stop 4.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 3.822 GHz, -28.47 dBm

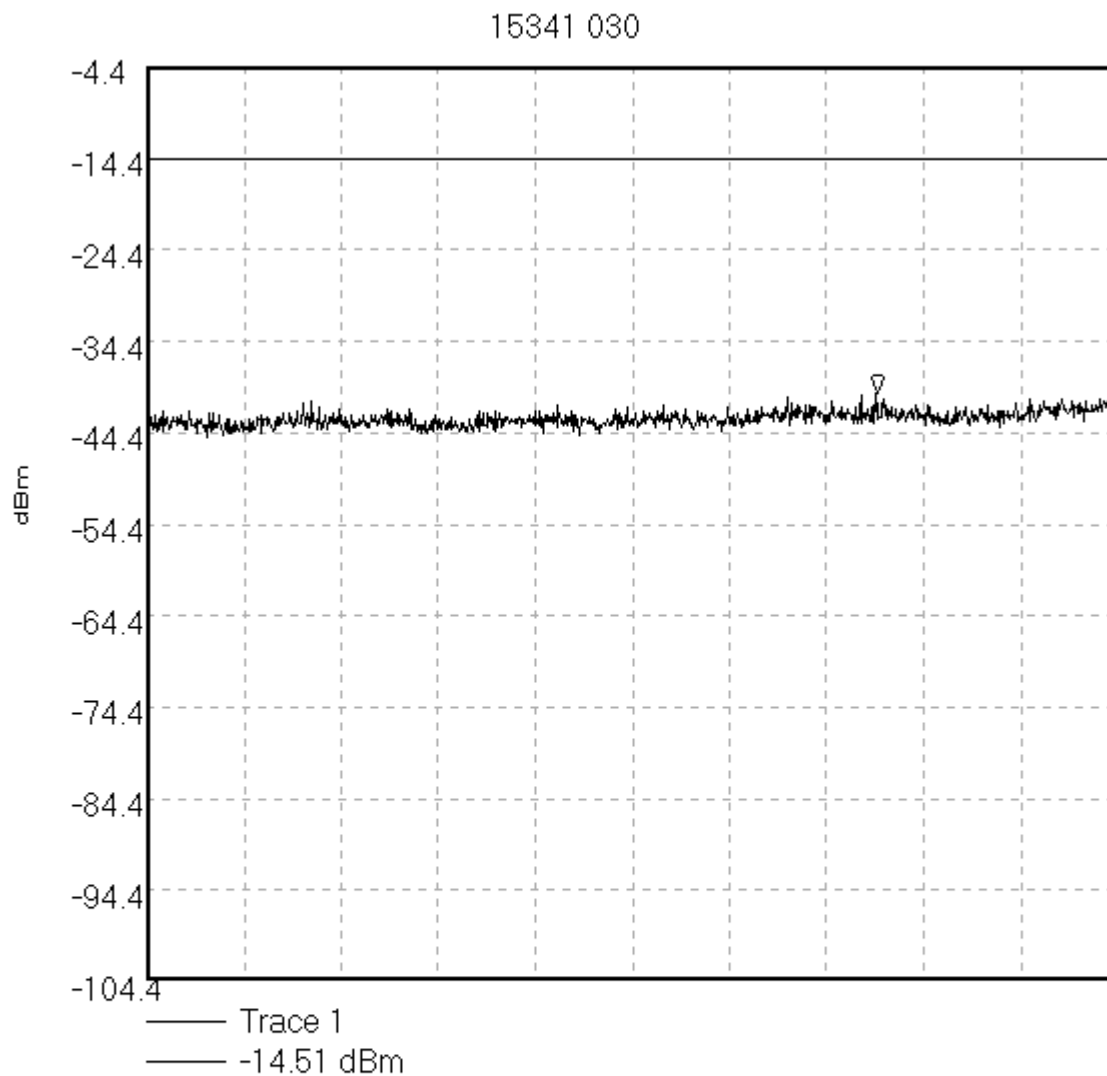
Limit/Mask: Limit Test Passed

13/02/02 11:10:09

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\030

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 4.0 GHz; Stop 5.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.752 GHz, -40.0 dBm

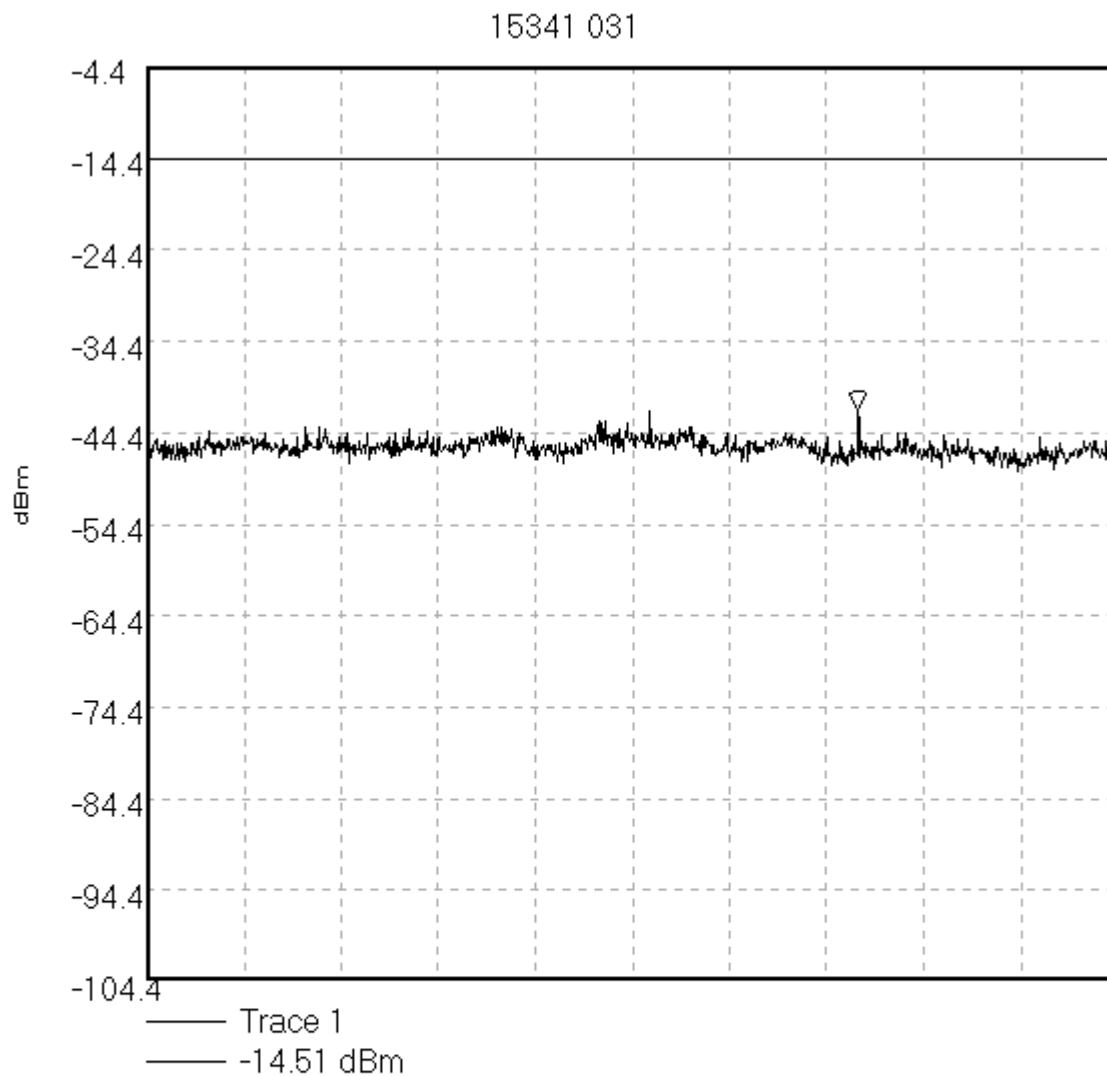
Limit/Mask: Limit Test Passed

13/02/02 11:13:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\031

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 5.0 GHz; Stop 6.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 5.733 GHz, -41.88 dBm

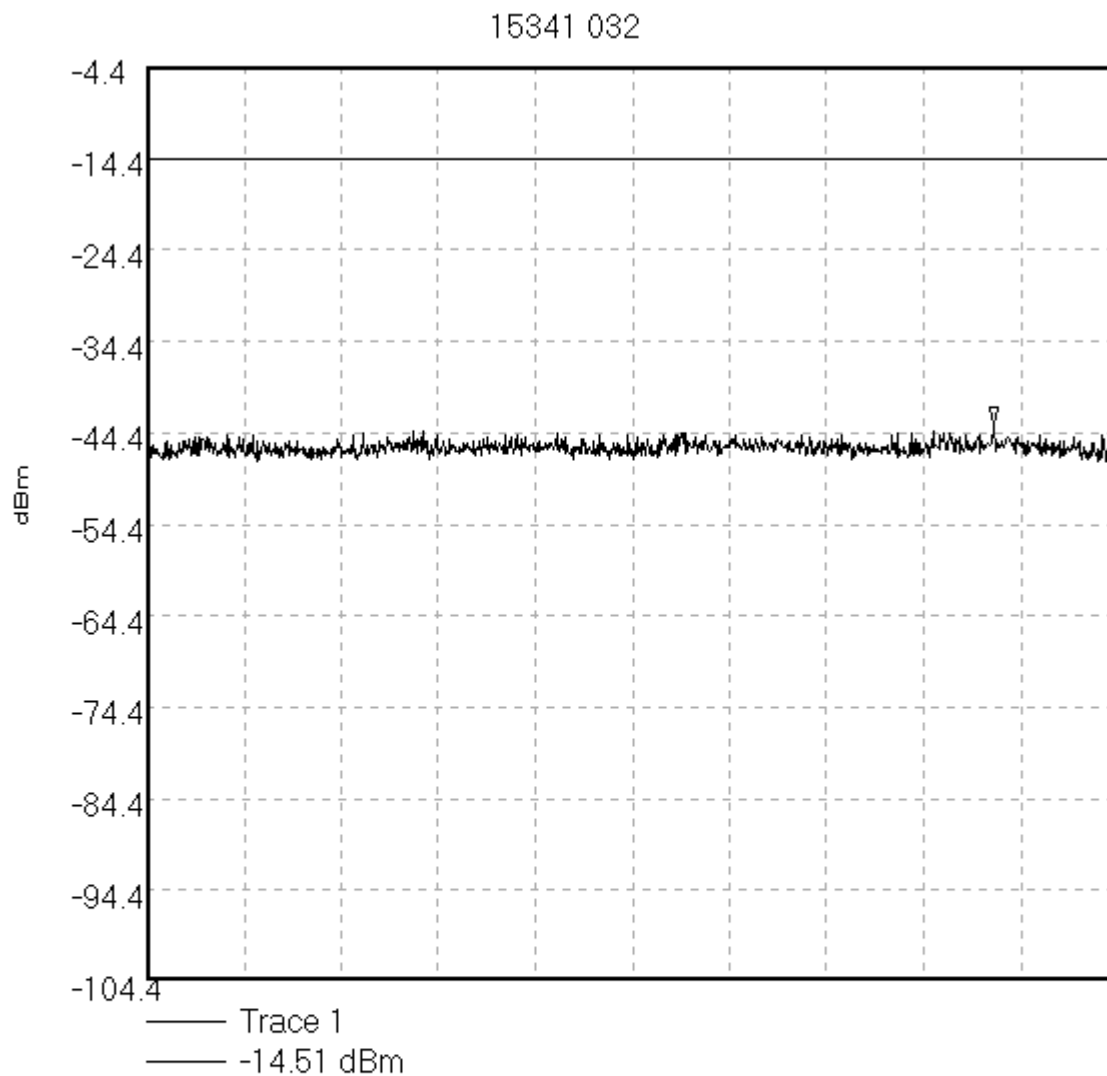
Limit/Mask: Limit Test Passed

13/02/02 11:13:53

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\032

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 6.0 GHz; Stop 7.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 6.872 GHz, -43.68 dBm

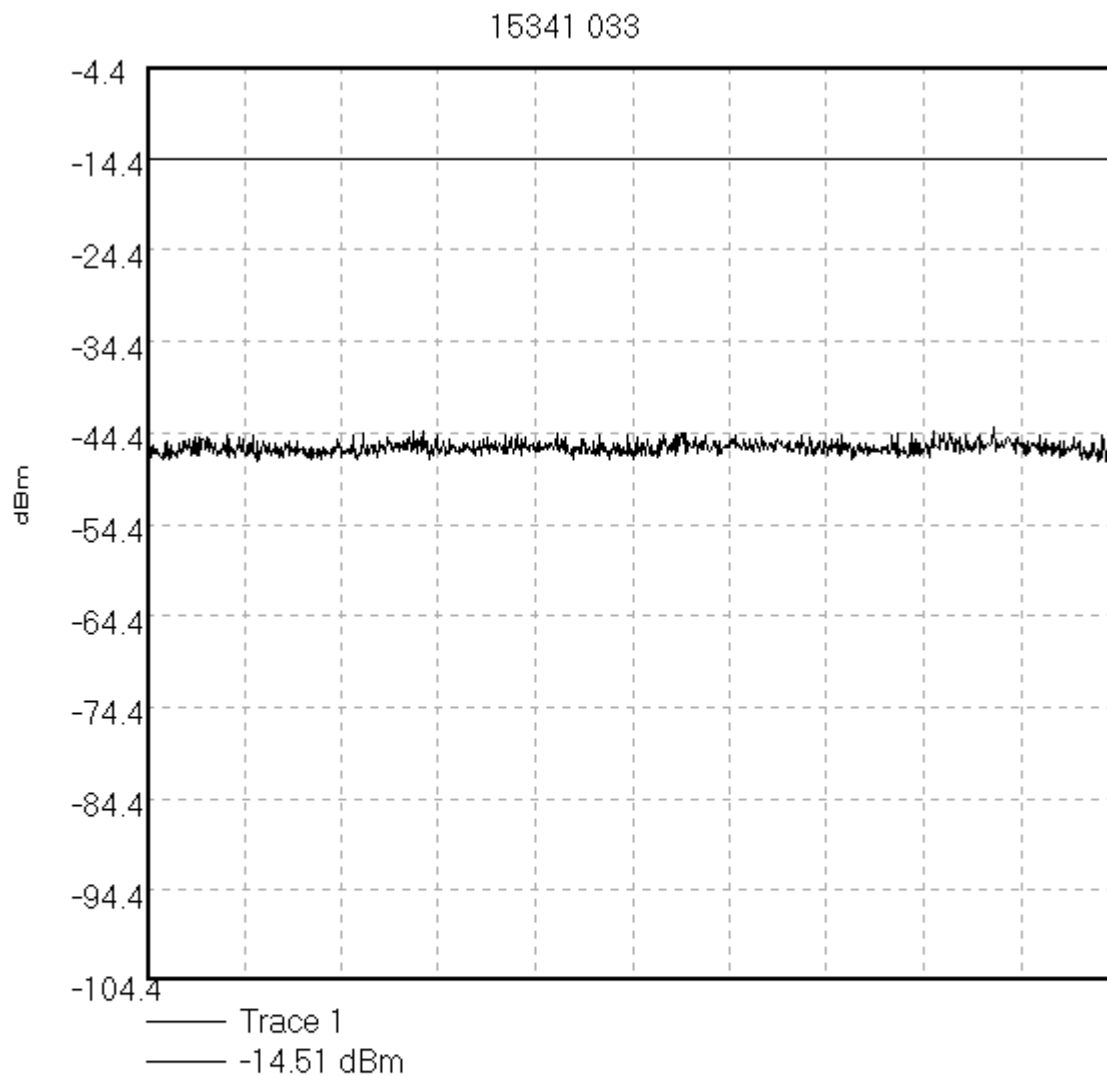
Limit/Mask: Limit Test Passed

13/02/02 11:14:39

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\033

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 7.0 GHz; Stop 8.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 6.872 GHz, -43.68 dBm

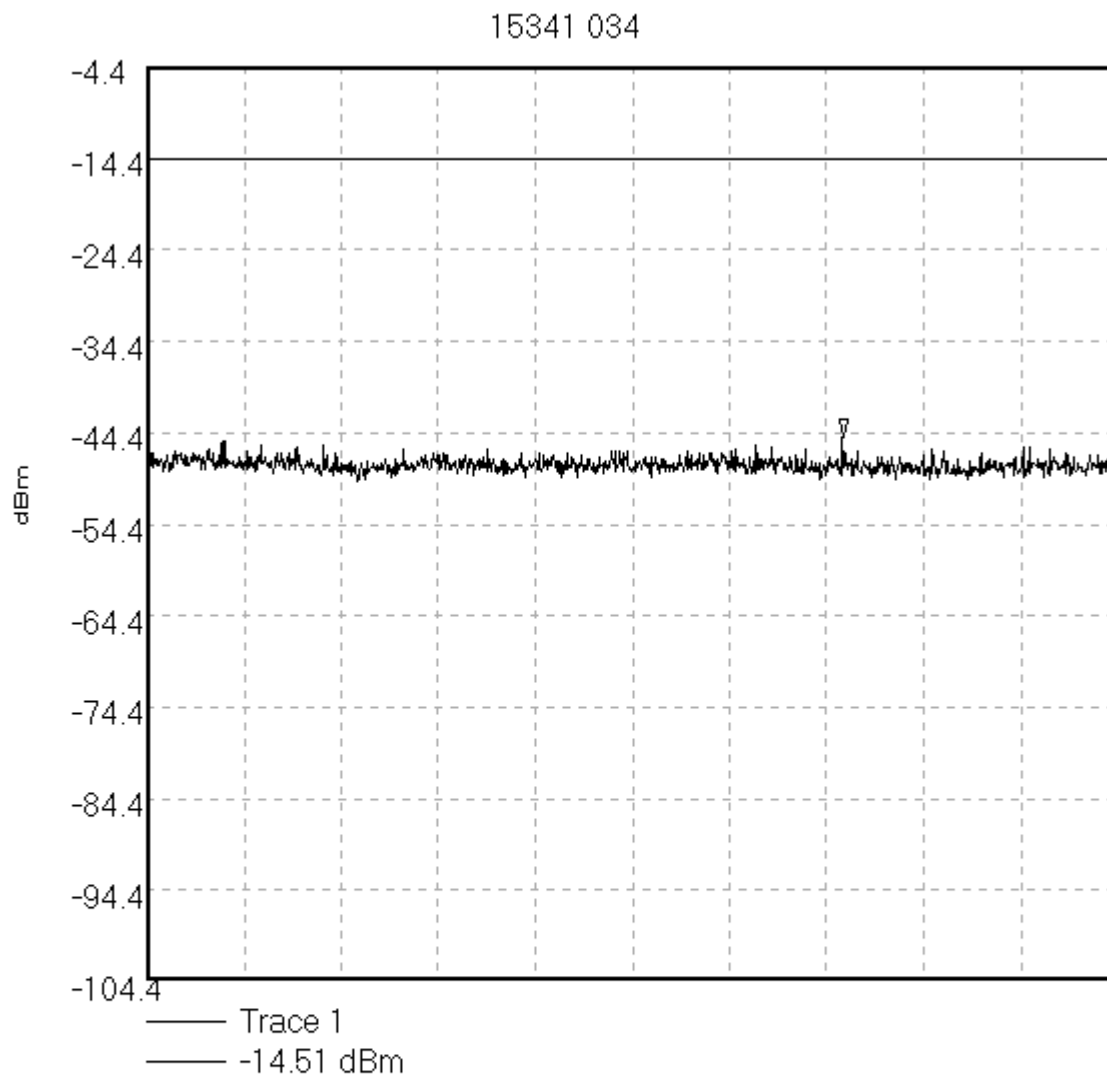
Limit/Mask: Limit Test Passed

13/02/02 11:15:29

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\034

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 8.0 GHz; Stop 9.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 8.717 GHz, -44.97 dBm

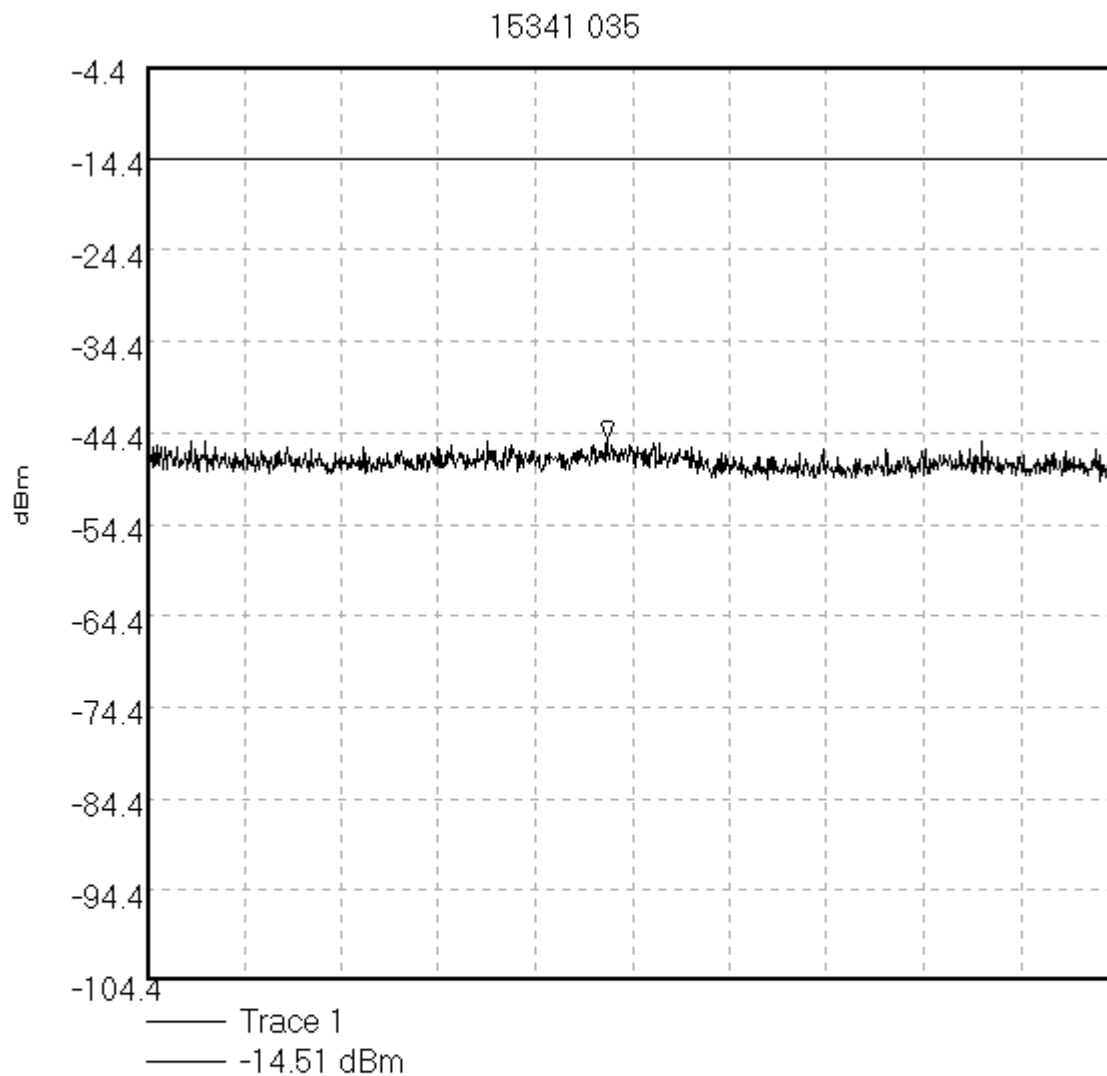
Limit/Mask: Limit Test Passed

13/02/02 11:16:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\035

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 9.0 GHz; Stop 10.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 9.474 GHz, -45.05 dBm

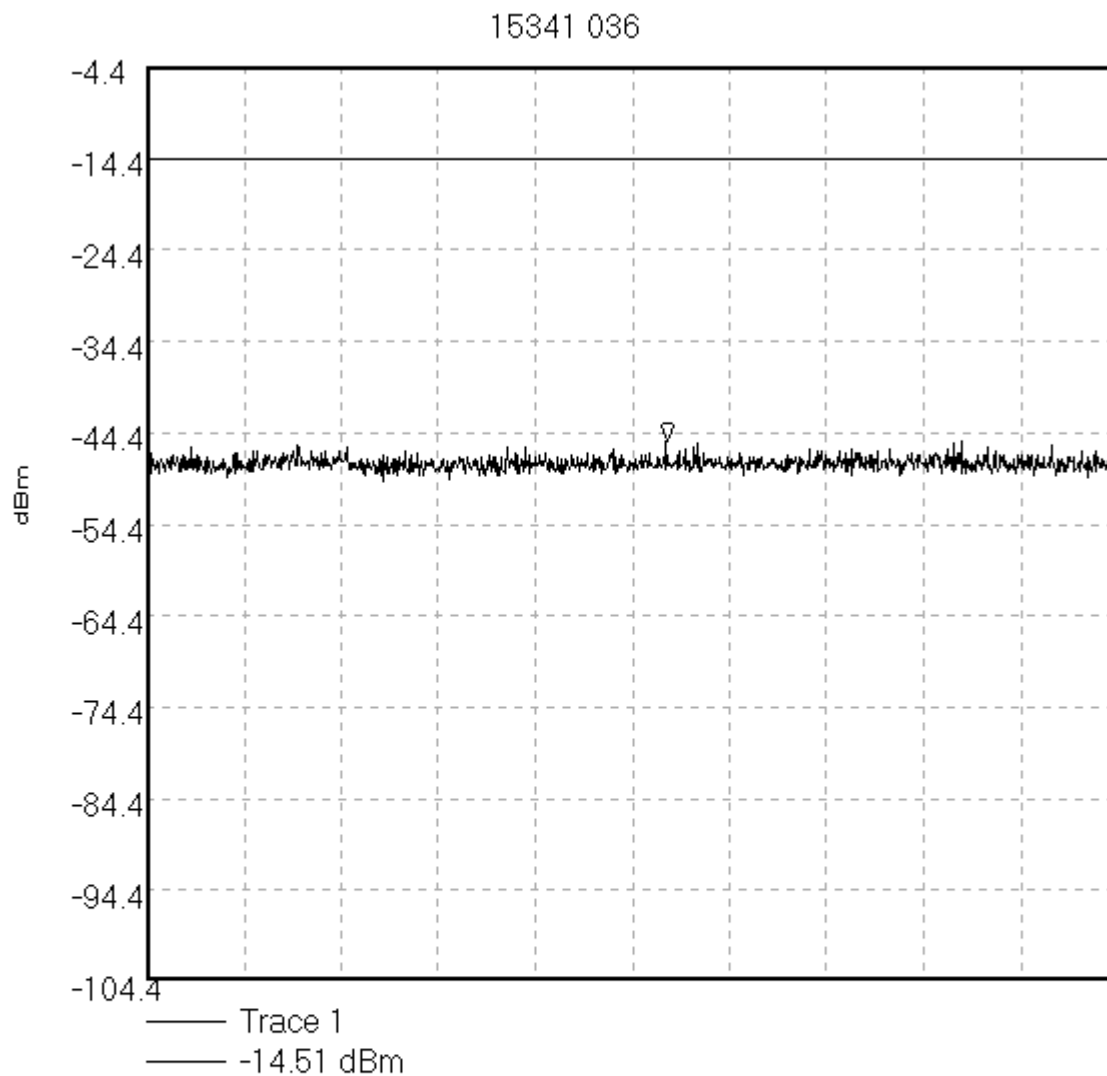
Limit/Mask: Limit Test Passed

13/02/02 11:16:47

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\036

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 10.0 GHz; Stop 11.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 10.536 GHz, -45.28 dBm

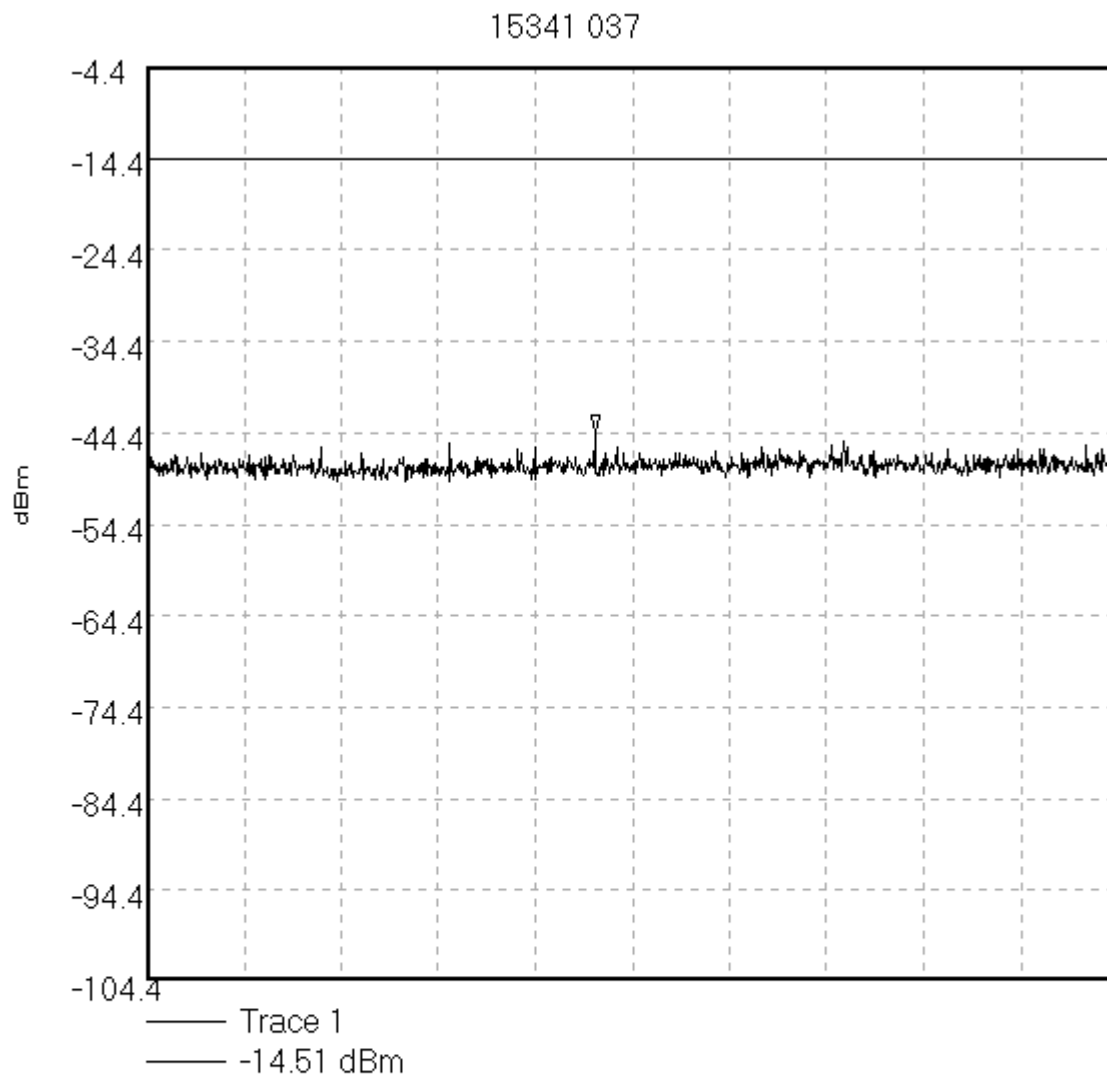
Limit/Mask: Limit Test Passed

13/02/02 11:17:28

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\037

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 11.0 GHz; Stop 12.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 11.462 GHz, -44.57 dBm

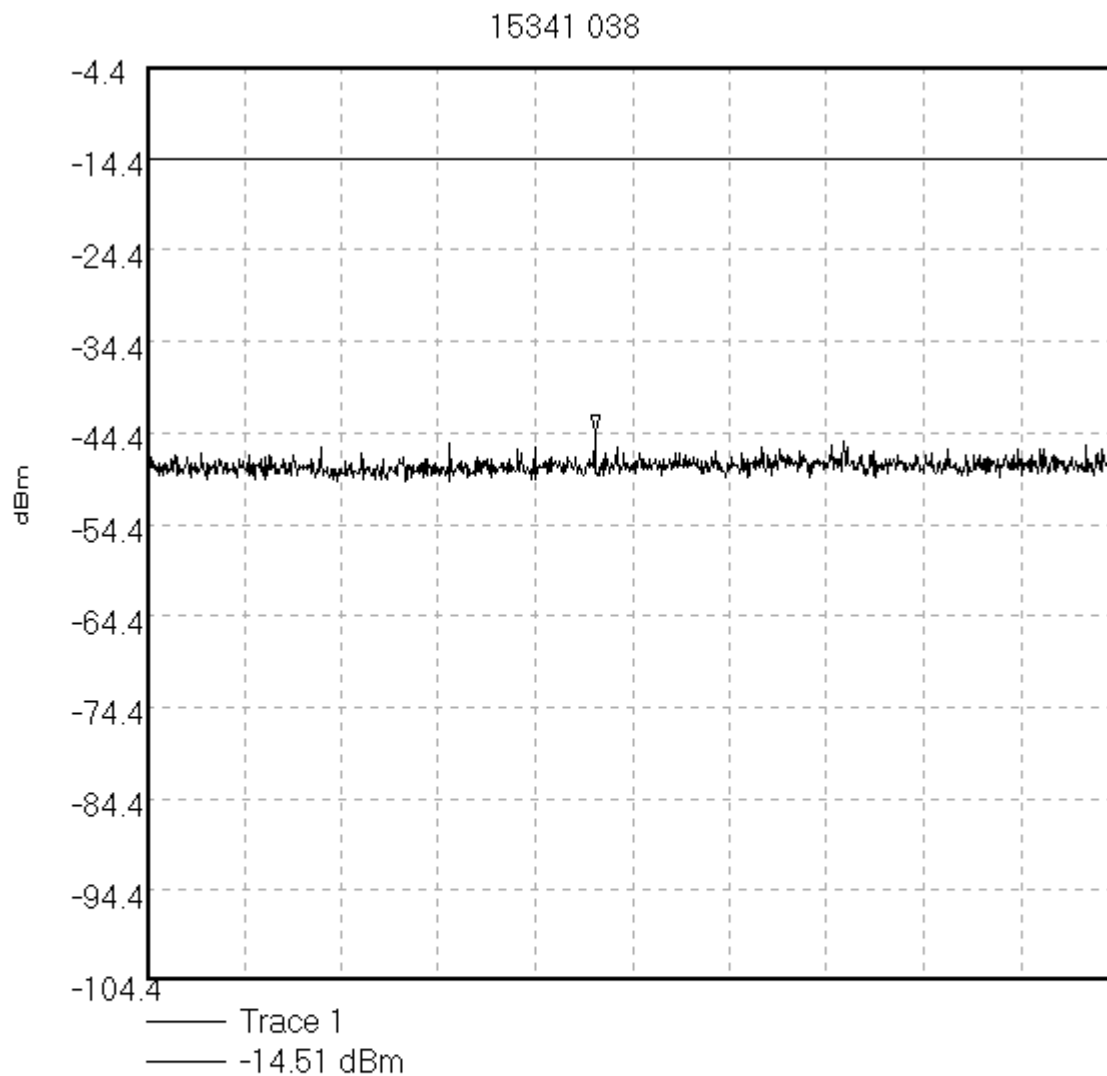
Limit/Mask: Limit Test Passed

13/02/02 11:18:18

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\038

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 11.0 GHz; Stop 12.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 11.462 GHz, -44.57 dBm

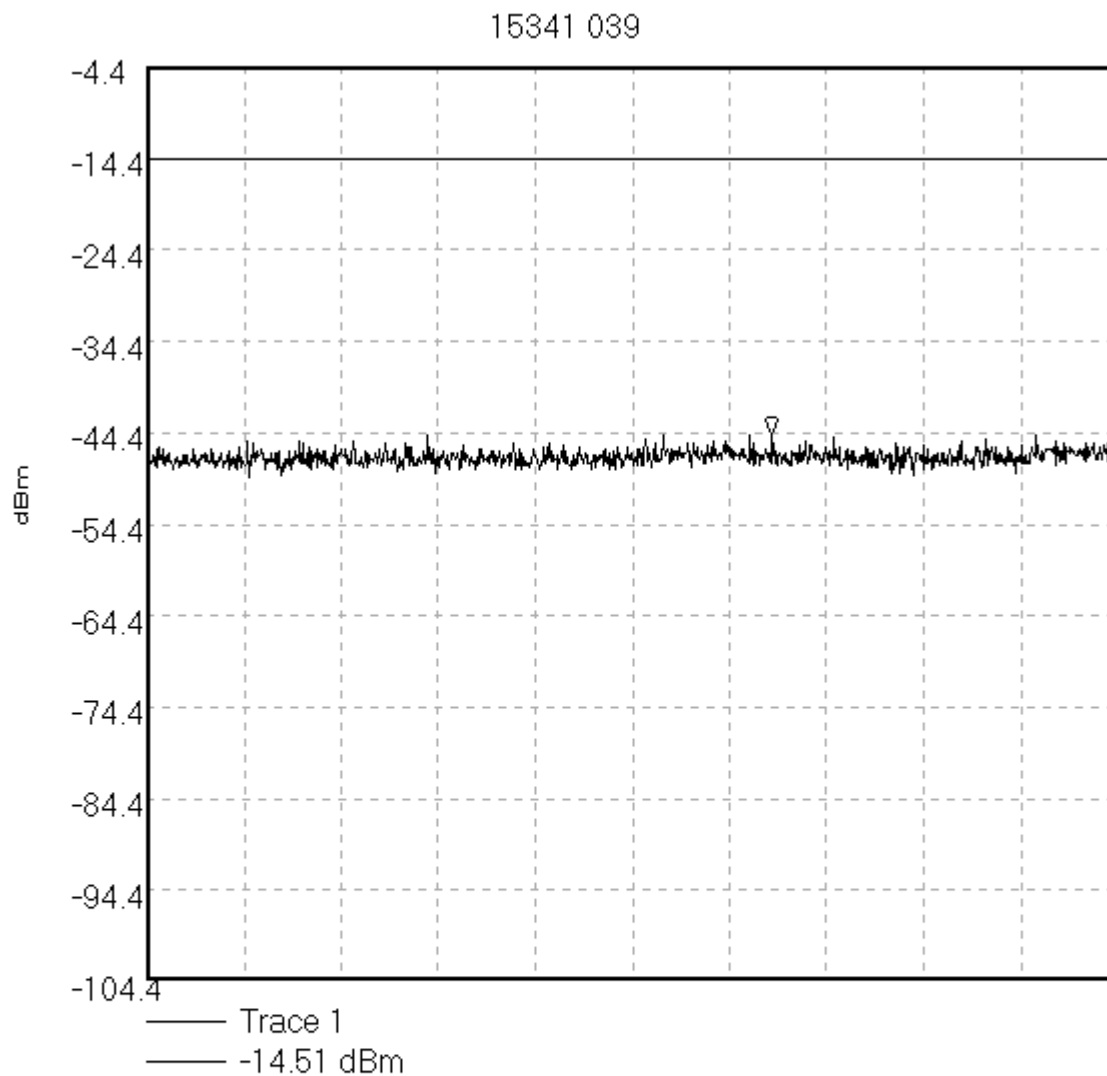
Limit/Mask: Limit Test Passed

13/02/02 11:18:52

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\039

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 12.0 GHz; Stop 13.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 12.644 GHz, -44.67 dBm

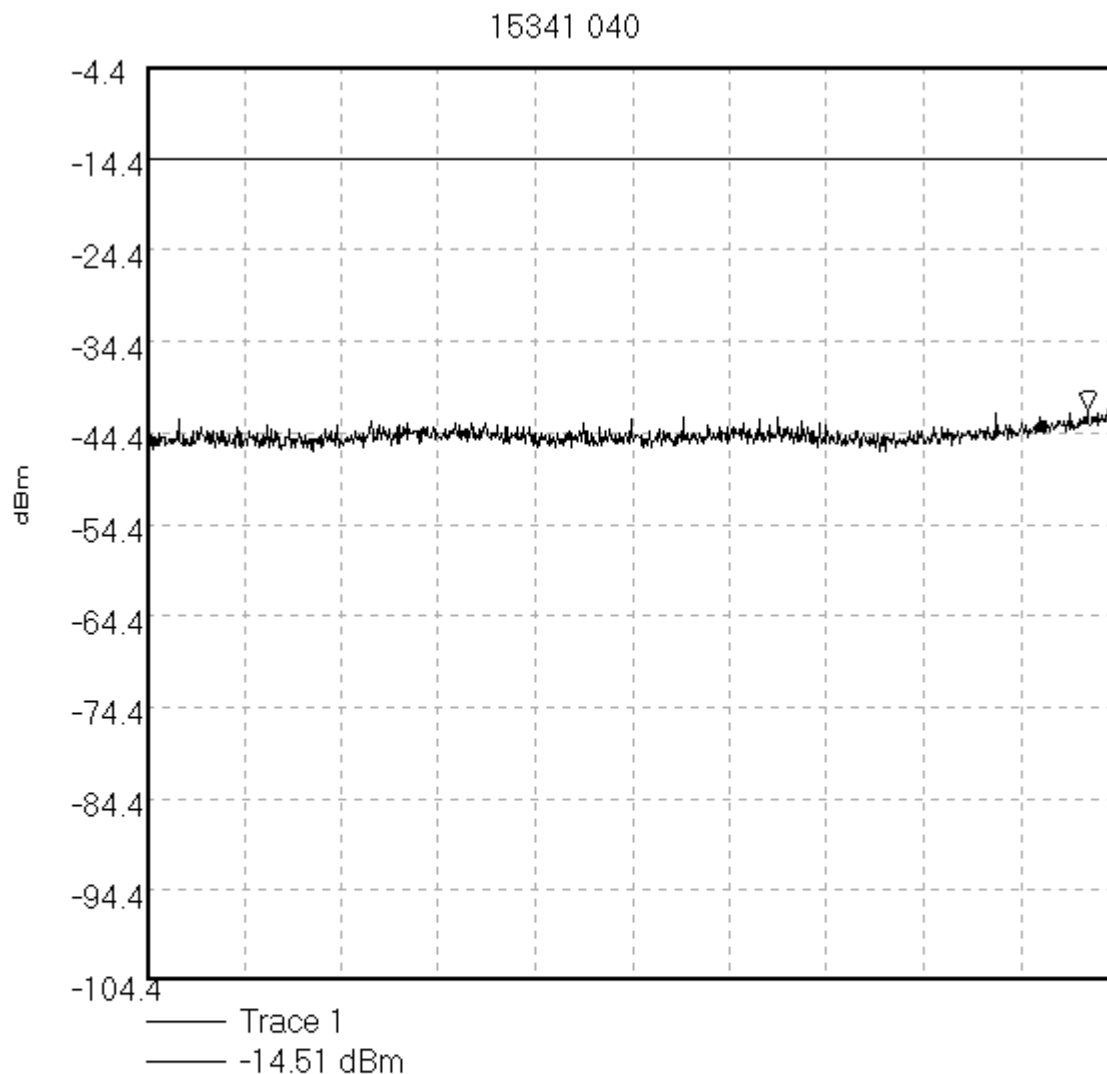
Limit/Mask: Limit Test Passed

13/02/02 11:19:31

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\040

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 13.0 GHz; Stop 14.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 13.97 GHz, -41.77 dBm

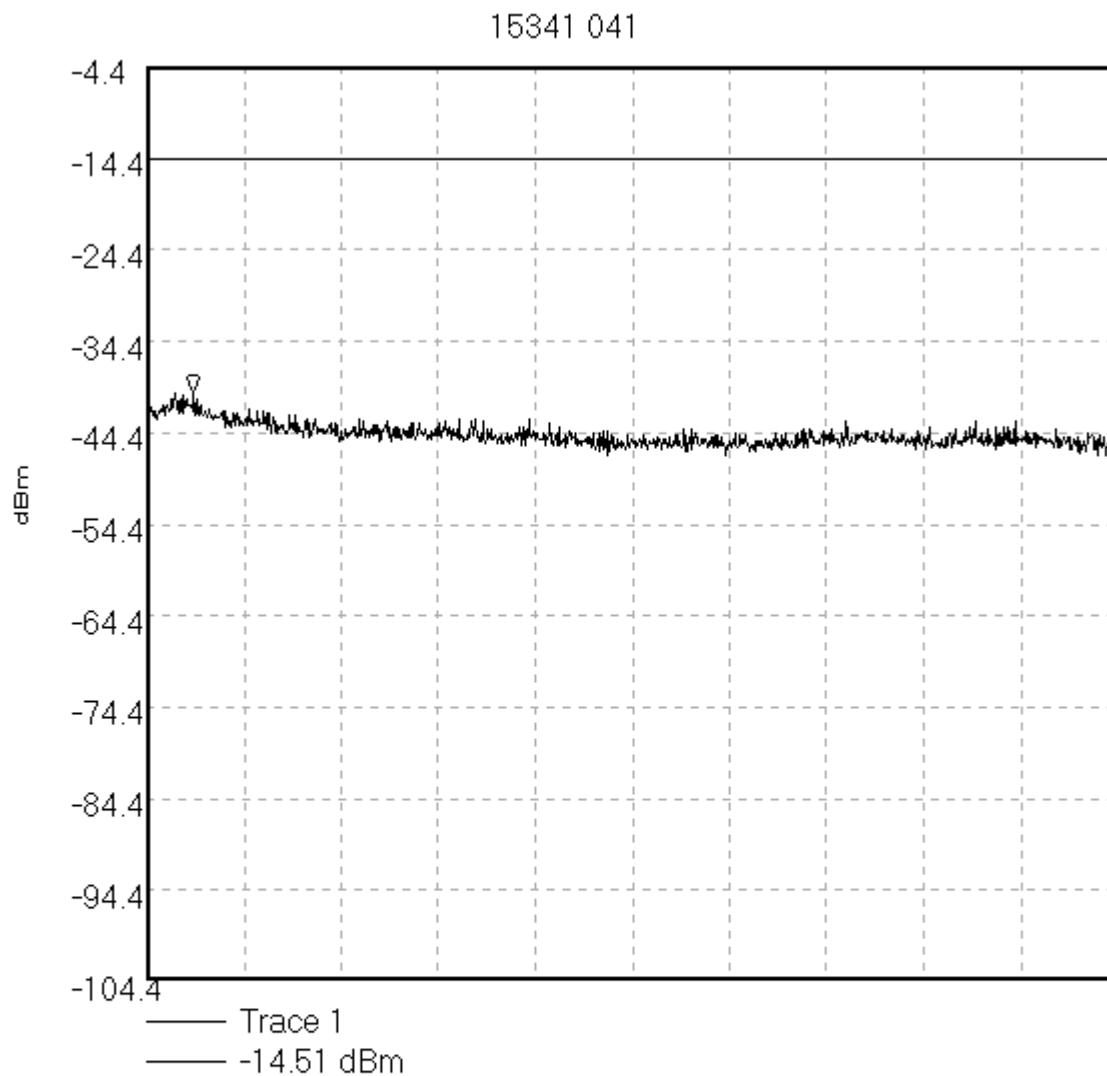
Limit/Mask: Limit Test Passed

13/02/02 11:20:22

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\041

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 14.0 GHz; Stop 15.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 14.048 GHz, -40.05 dBm

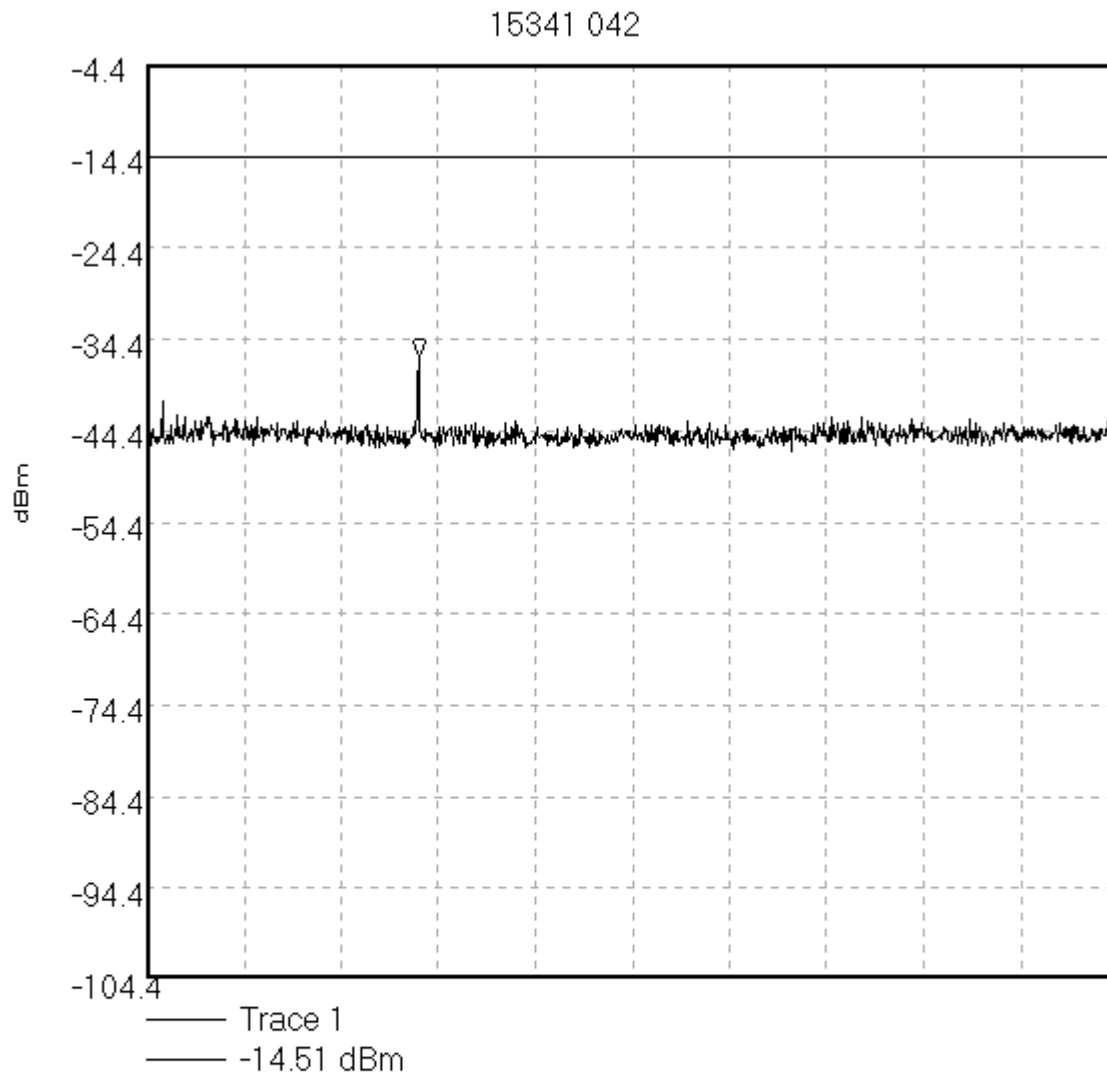
Limit/Mask: Limit Test Passed

13/02/02 11:21:05

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\042

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 15.0 GHz; Stop 16.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 15.28 GHz, -36.42 dBm

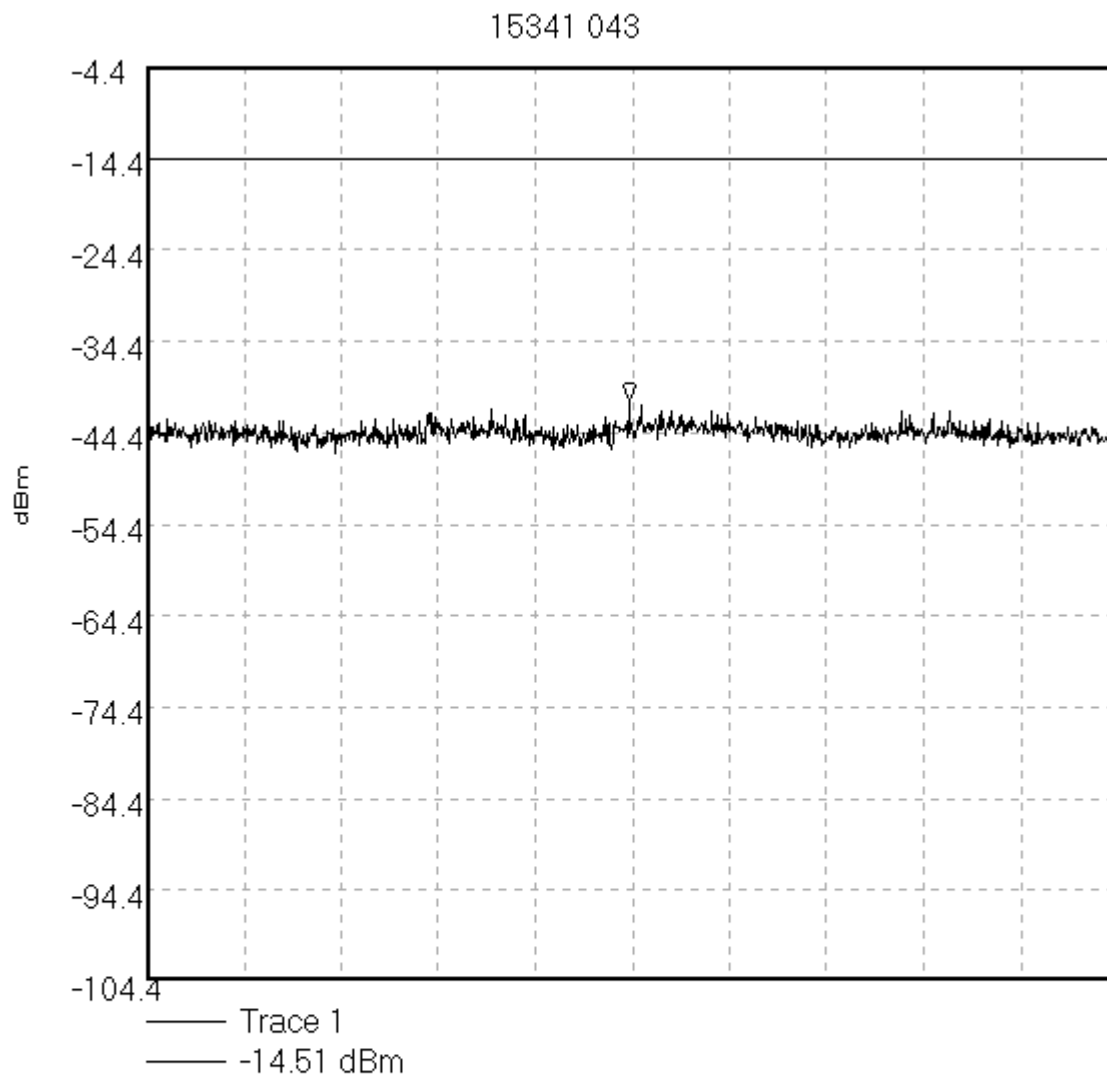
Limit/Mask: Limit Test Passed

13/02/02 11:21:52

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\043

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 16.0 GHz; Stop 17.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 16.497 GHz, -40.94 dBm

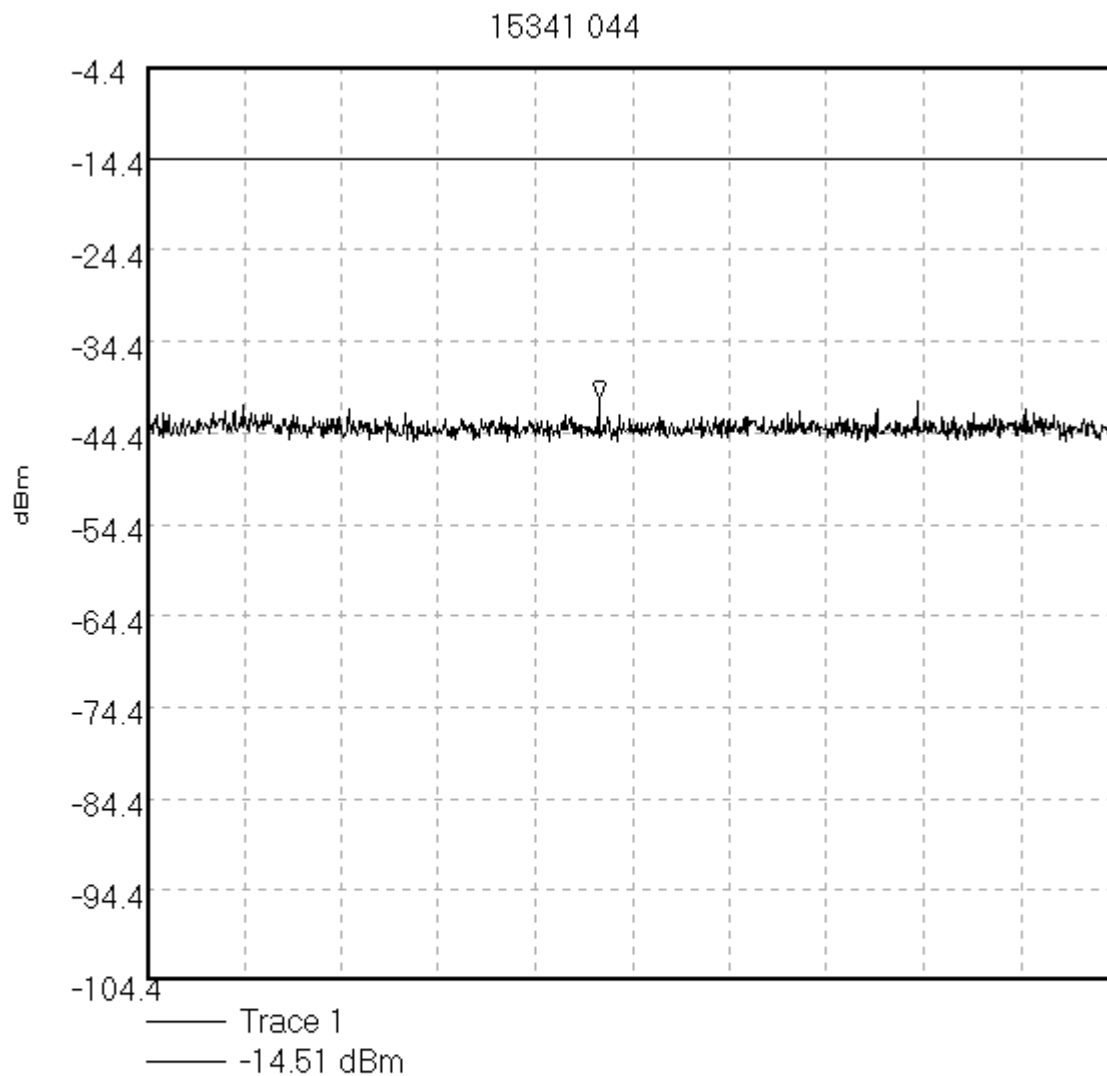
Limit/Mask: Limit Test Passed

13/02/02 11:22:32

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\044

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 17.0 GHz; Stop 18.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 17.466 GHz, -40.66 dBm

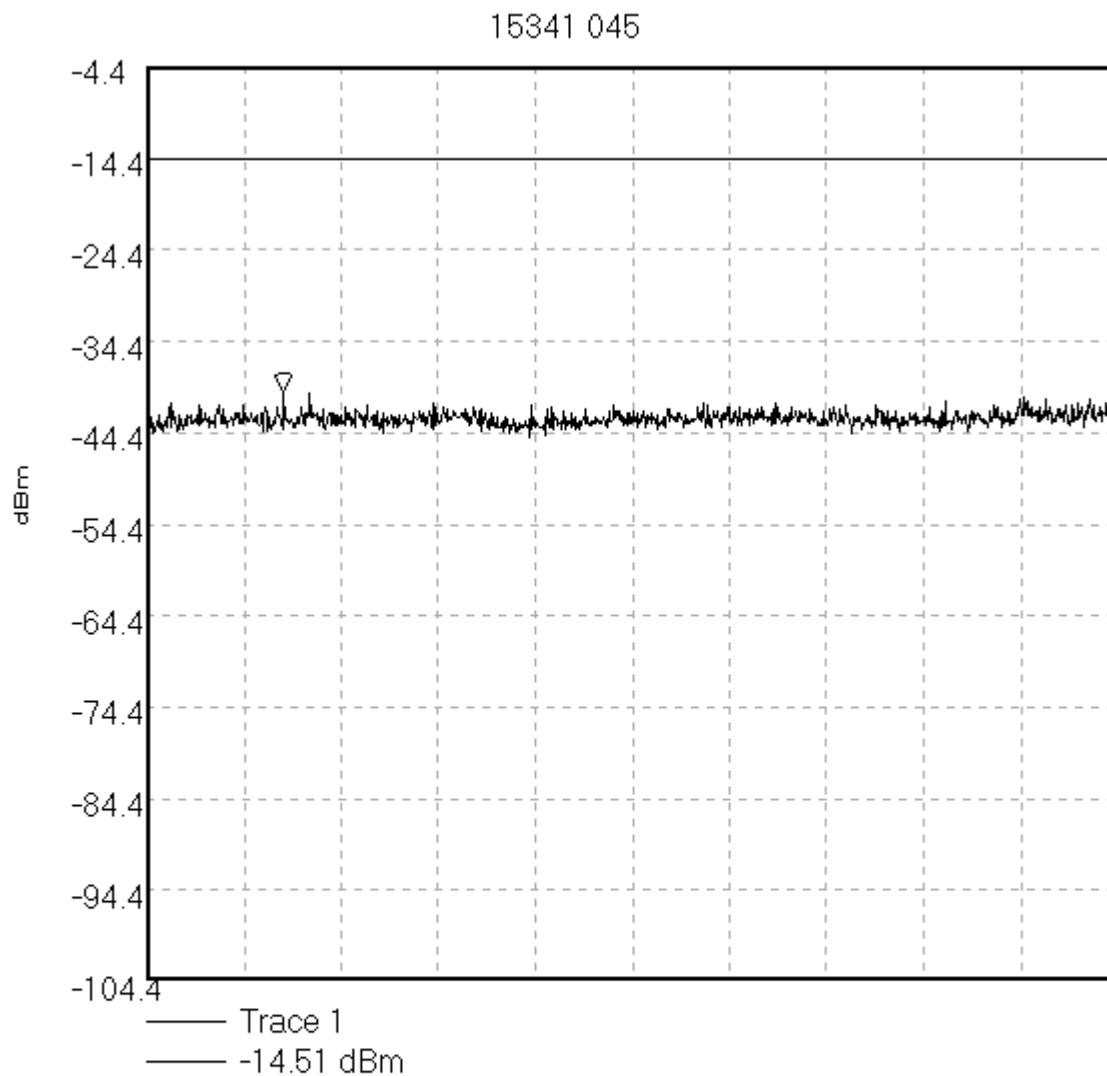
Limit/Mask: Limit Test Passed

13/02/02 11:23:16

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\045

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 18.0 GHz; Stop 19.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 18.141 GHz, -39.82 dBm

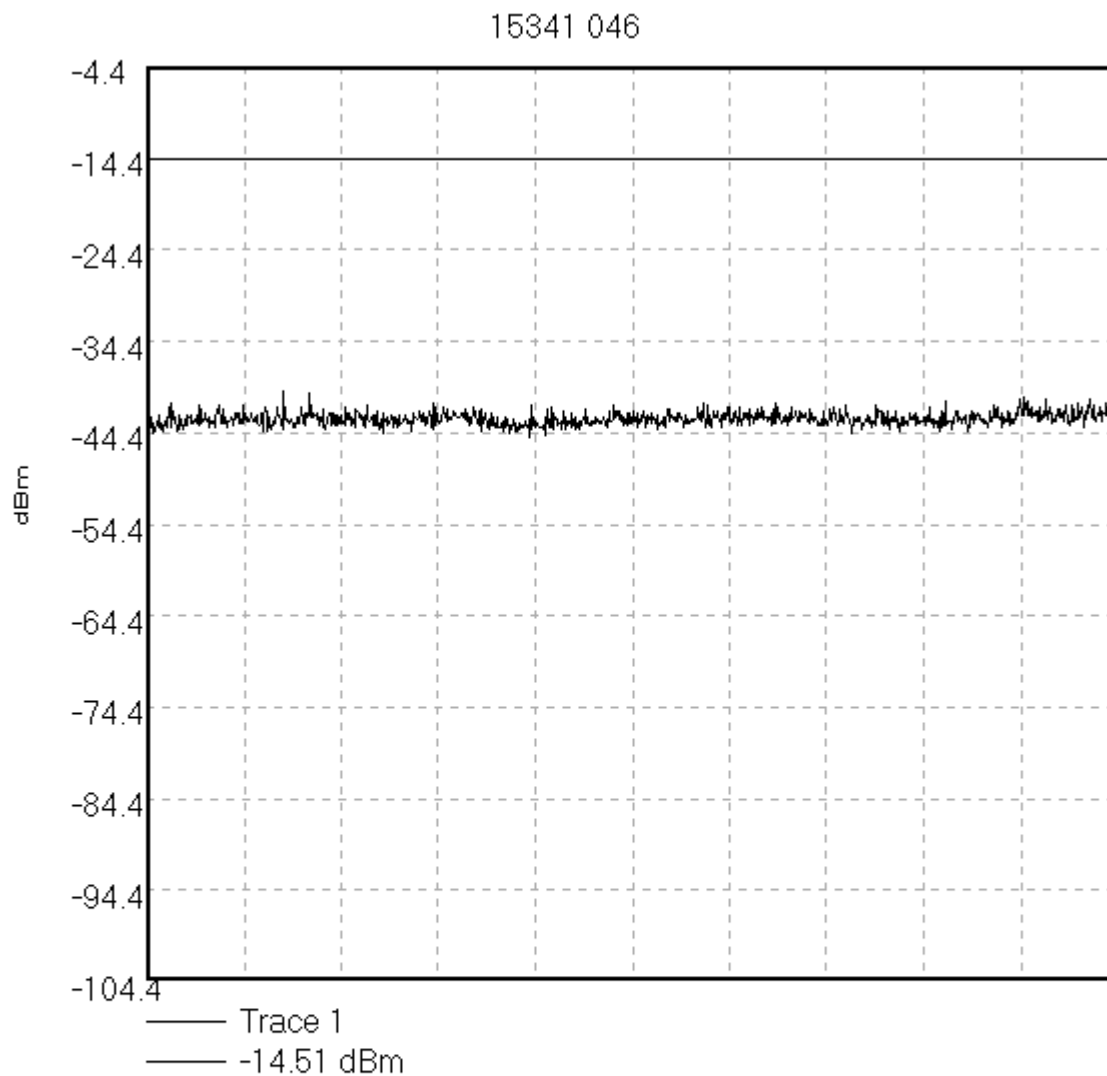
Limit/Mask: Limit Test Passed

13/02/02 11:24:03

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\046

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 810 Tx High Power.



Start 19.0 GHz; Stop 20.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 18.141 GHz, -39.82 dBm

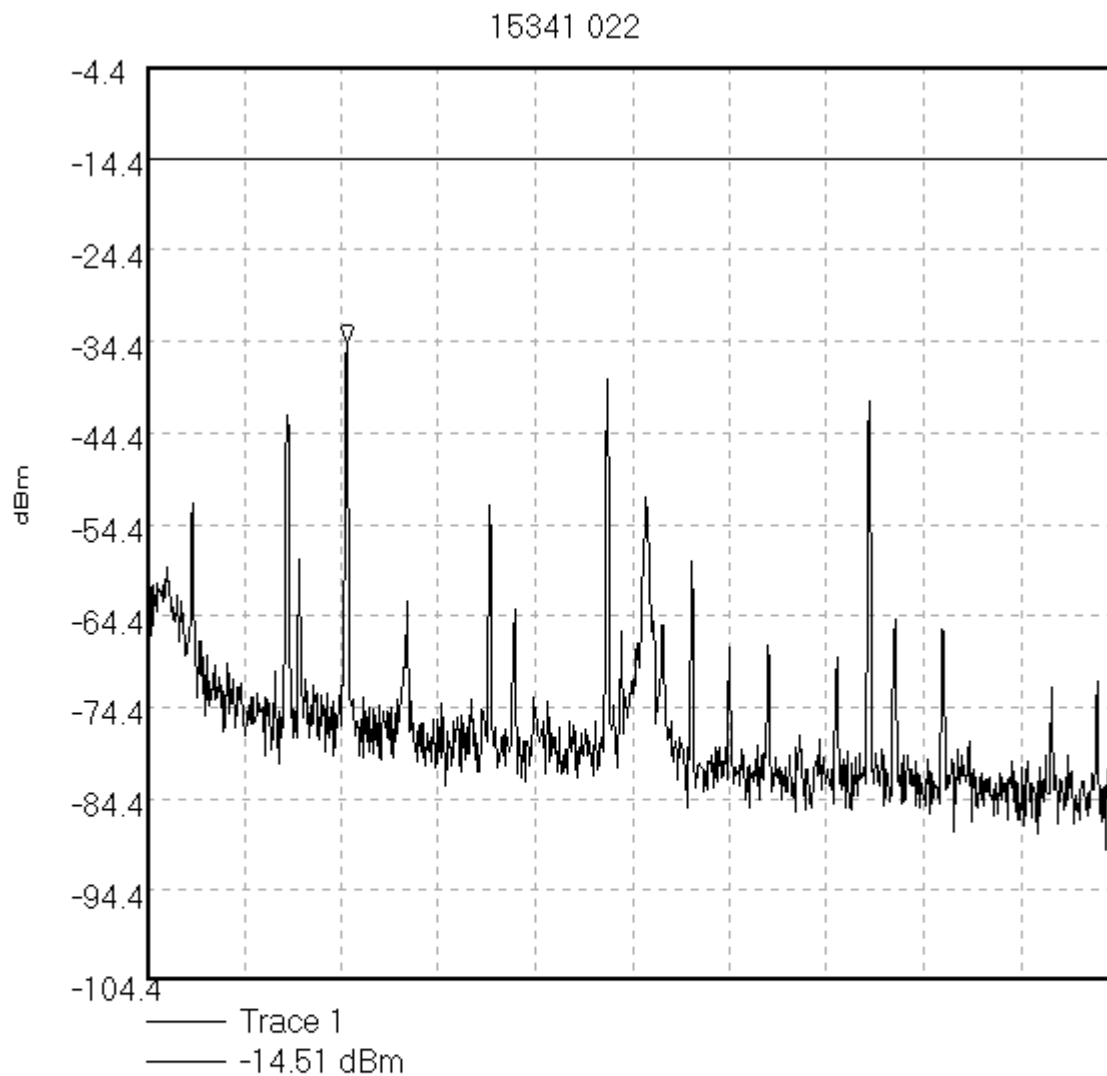
Limit/Mask: Limit Test Passed

13/02/02 11:24:37

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\022

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 9.0 kHz; Stop 150.0 kHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 200.0 Hz; VBW 300.0 Hz; Att 5 dB; Swp 24.0 S

Peak 37.983 kHz, -34.56 dBm

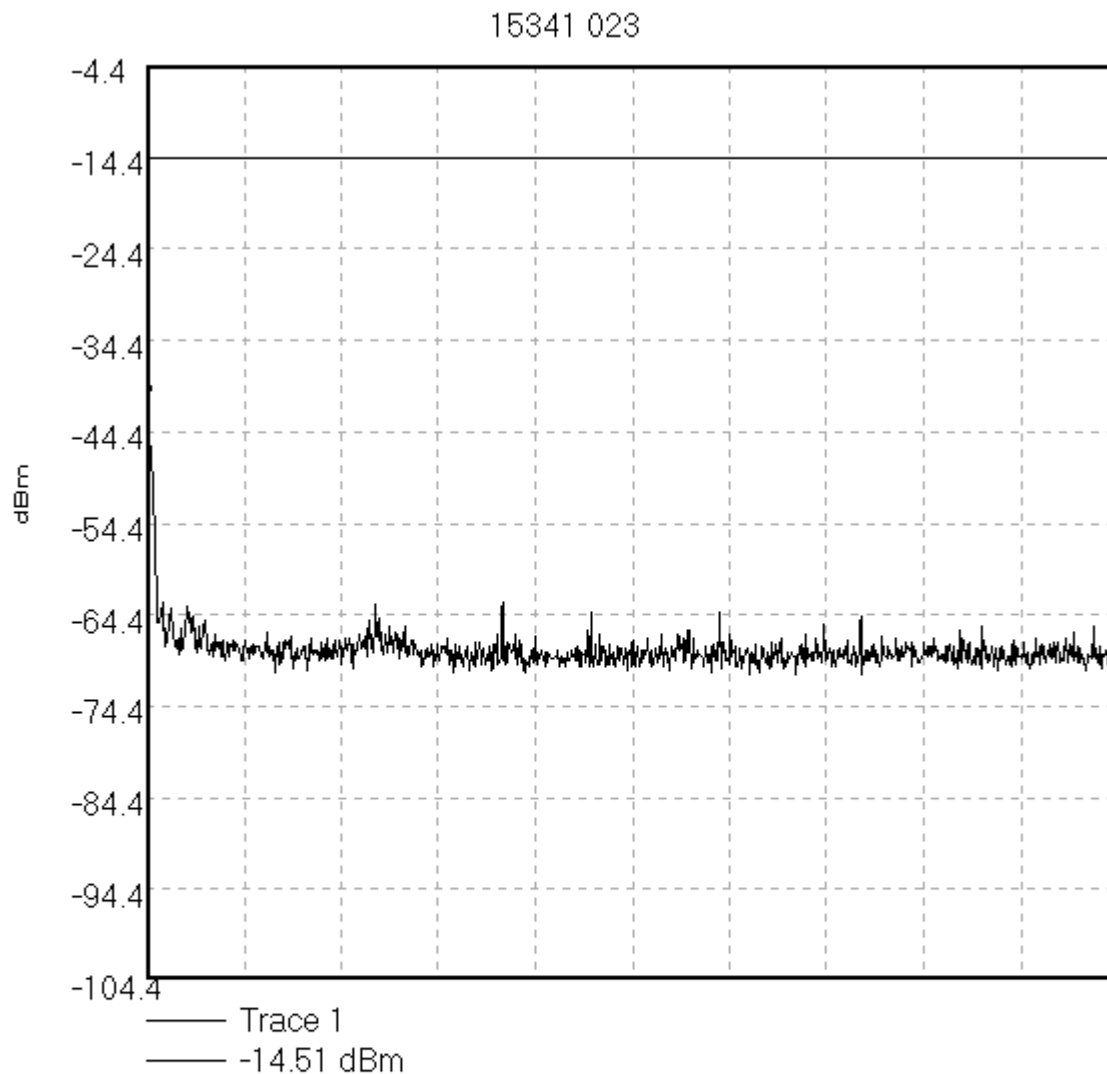
Limit/Mask: Limit Test Passed

13/02/02 11:00:20

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\023

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.

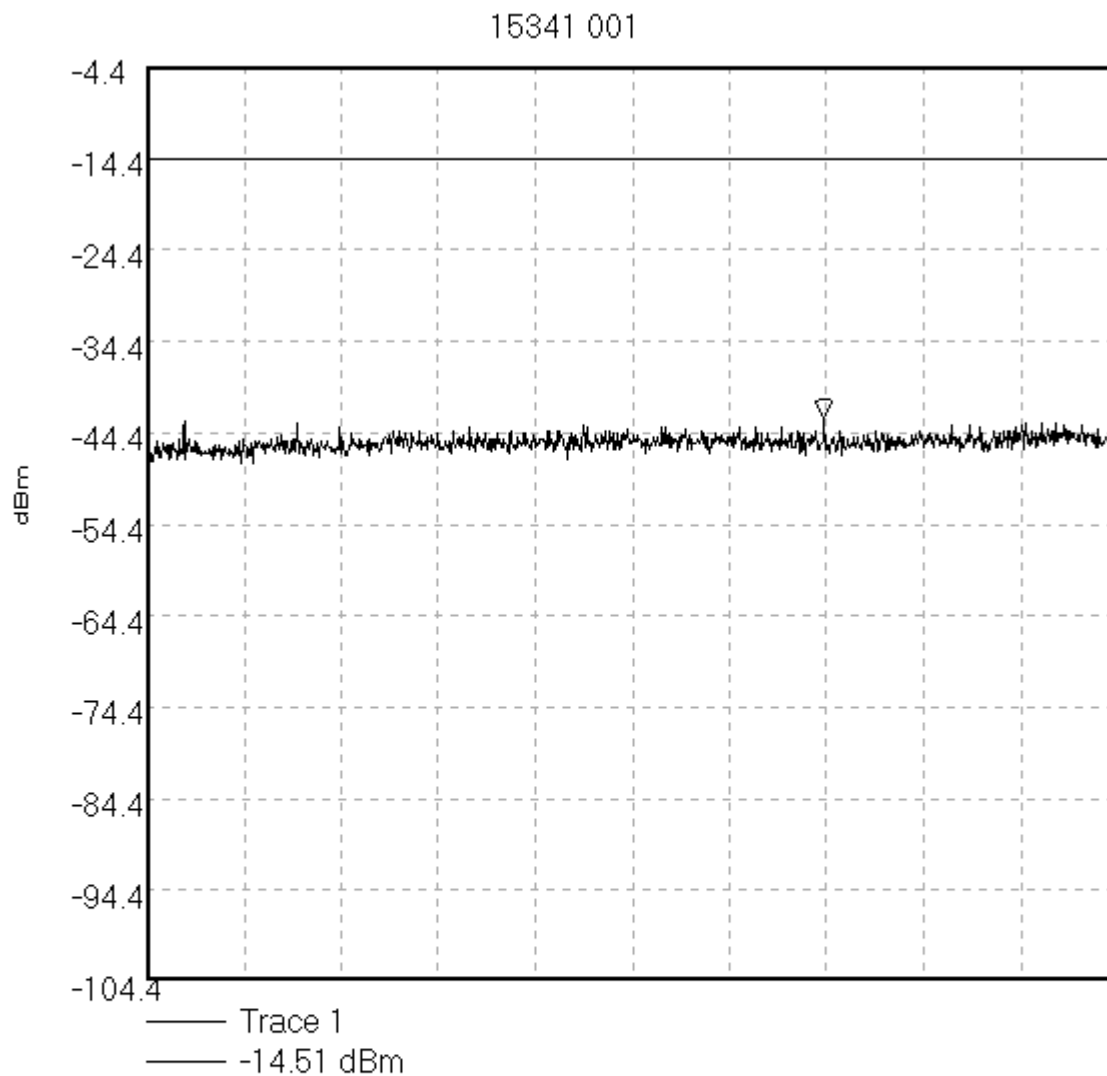


Start 150.0 kHz; Stop 30.0 MHz
Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div
RBW 10.0 kHz; VBW 10.0 kHz; Att 5 dB; Swp 1.9 S
Peak 150.0 kHz, -41.5 dBm
Limit/Mask: Limit Test Passed
13/02/02 11:02:37

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\001

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 30.0 MHz; Stop 1.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 706.844 MHz, -42.74 dBm

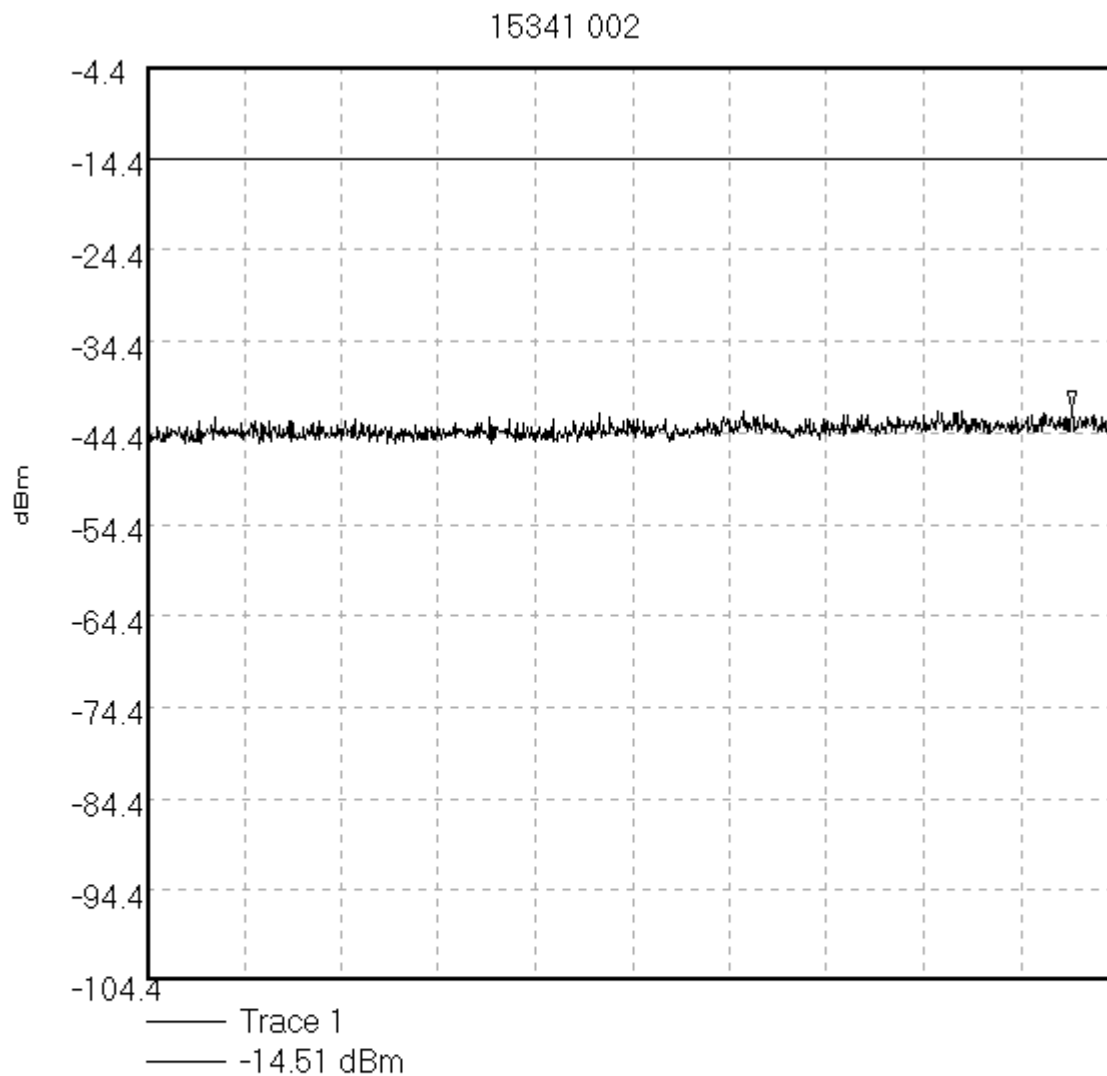
Limit/Mask: Limit Test Passed

13/02/02 10:24:49

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\002

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 1.0 GHz; Stop 1.805 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.767 GHz, -41.9 dBm

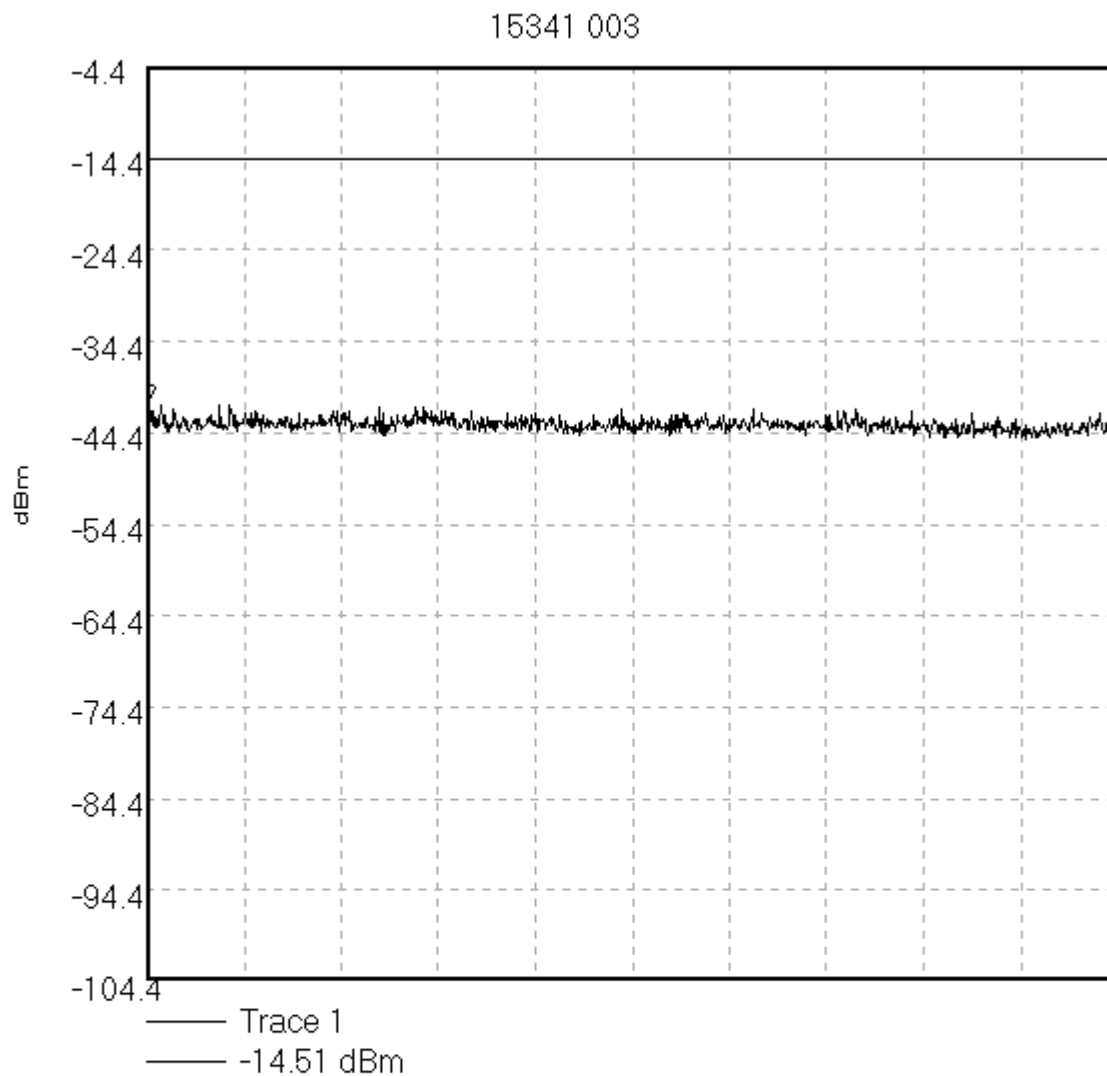
Limit/Mask: Limit Test Passed

13/02/02 10:31:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\003

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 1.855 GHz; Stop 3.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 1.856 GHz, -41.09 dBm

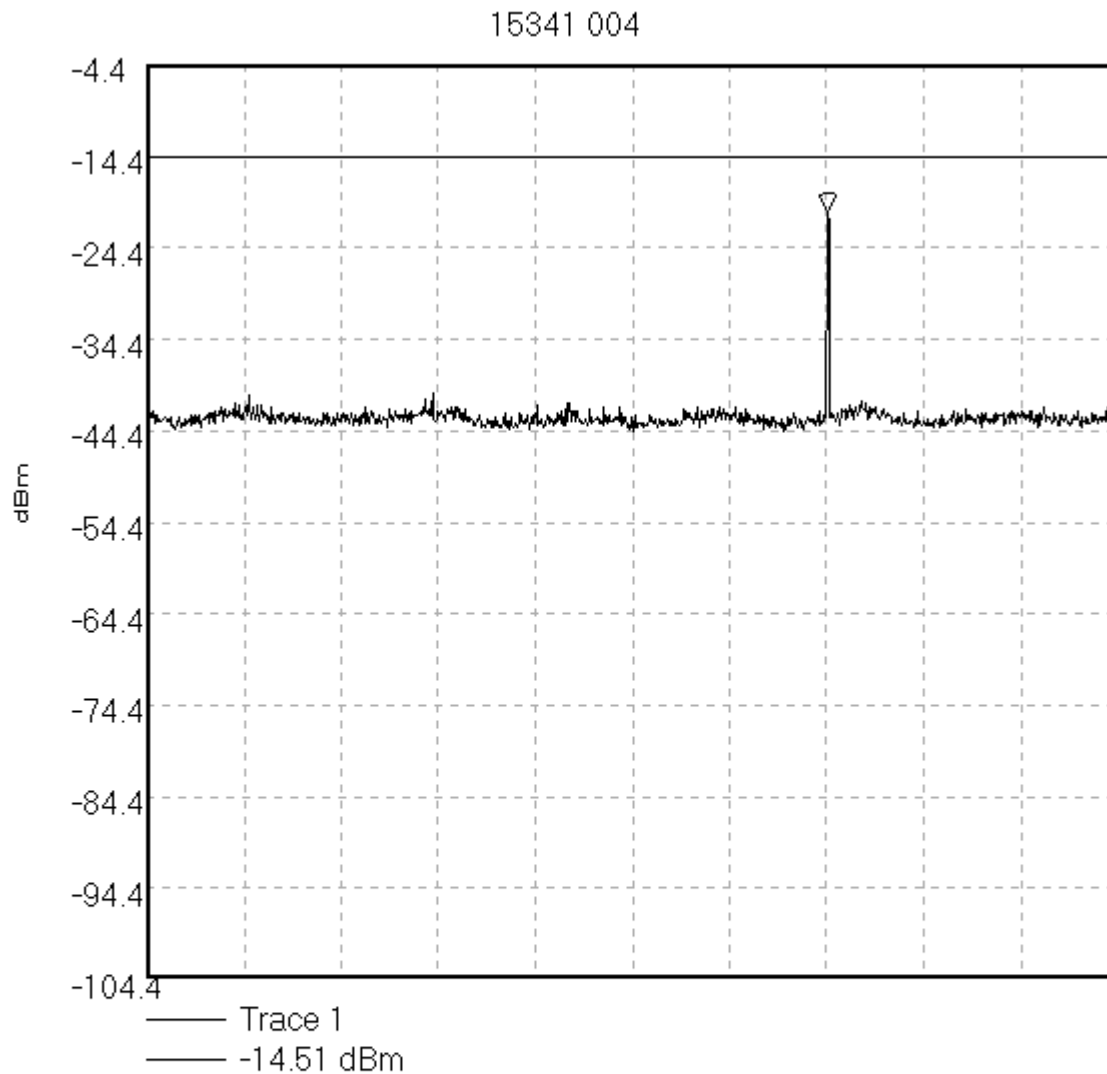
Limit/Mask: Limit Test Passed

13/02/02 10:33:09

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\004

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 3.0 GHz; Stop 4.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 3.702 GHz, -20.37 dBm

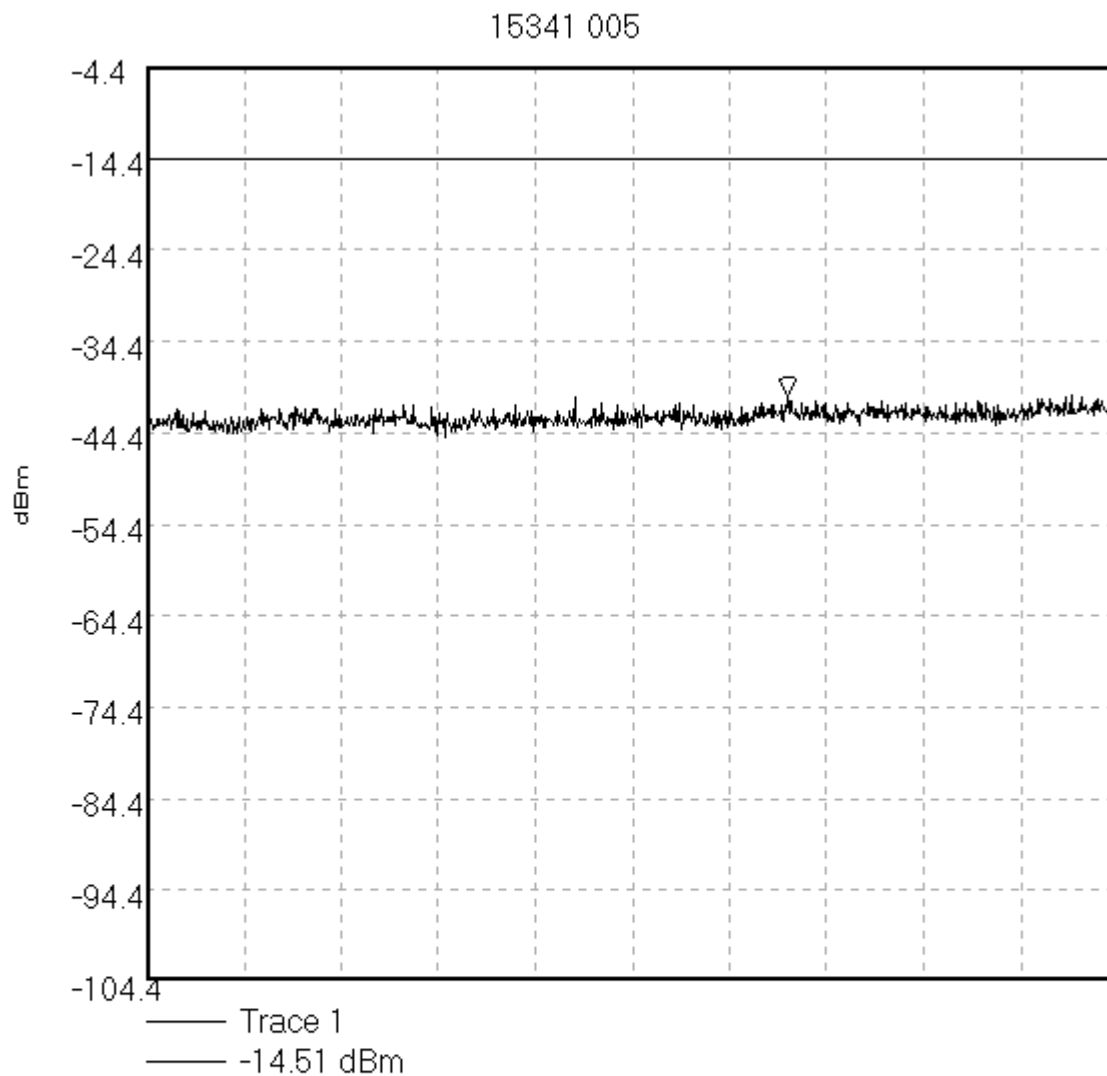
Limit/Mask: Limit Test Passed

13/02/02 10:34:31

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\005

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 4.0 GHz; Stop 5.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 4.661 GHz, -40.33 dBm

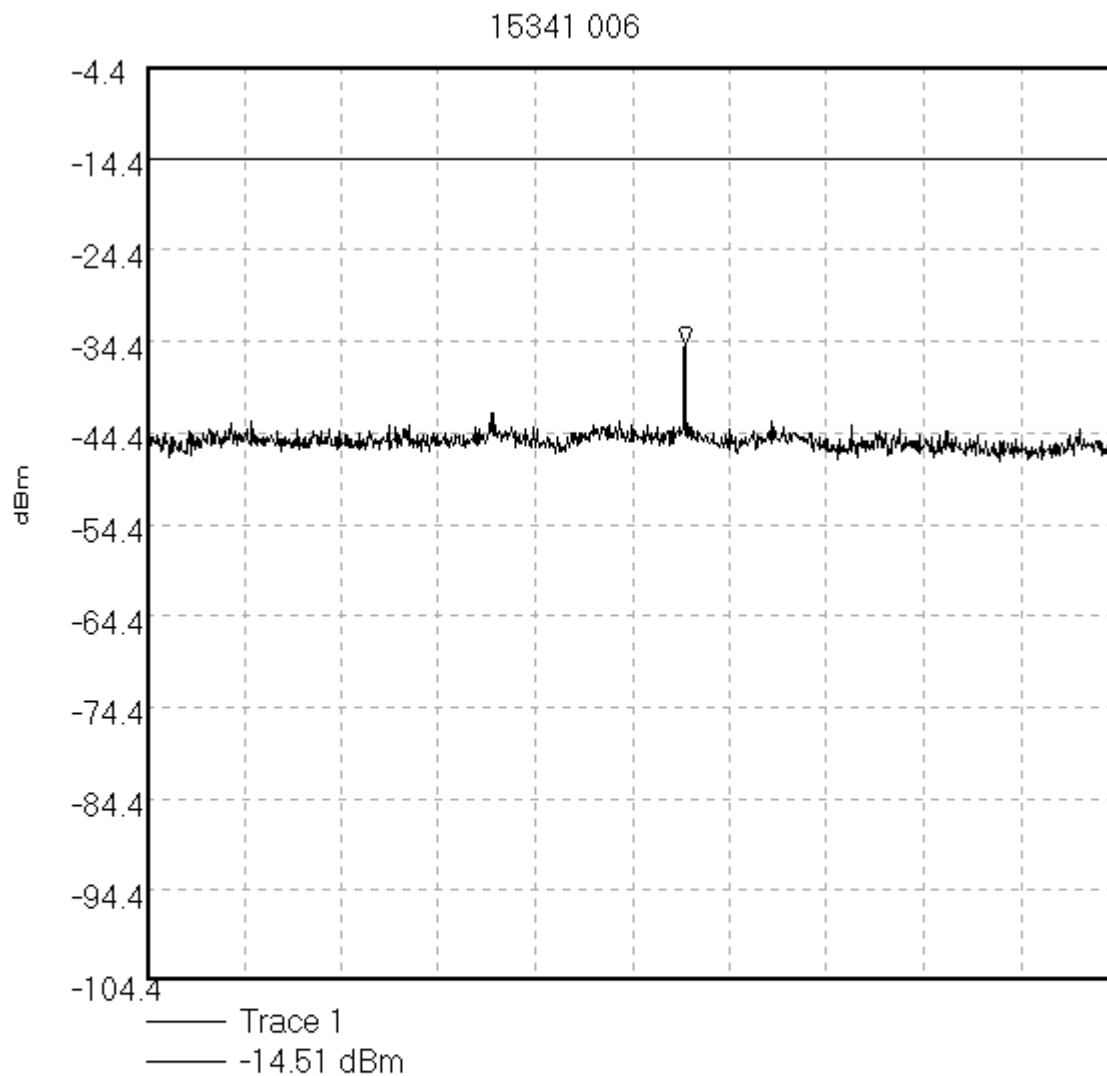
Limit/Mask: Limit Test Passed

13/02/02 10:35:17

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\006

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 5.0 GHz; Stop 6.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 5.554 GHz, -34.84 dBm

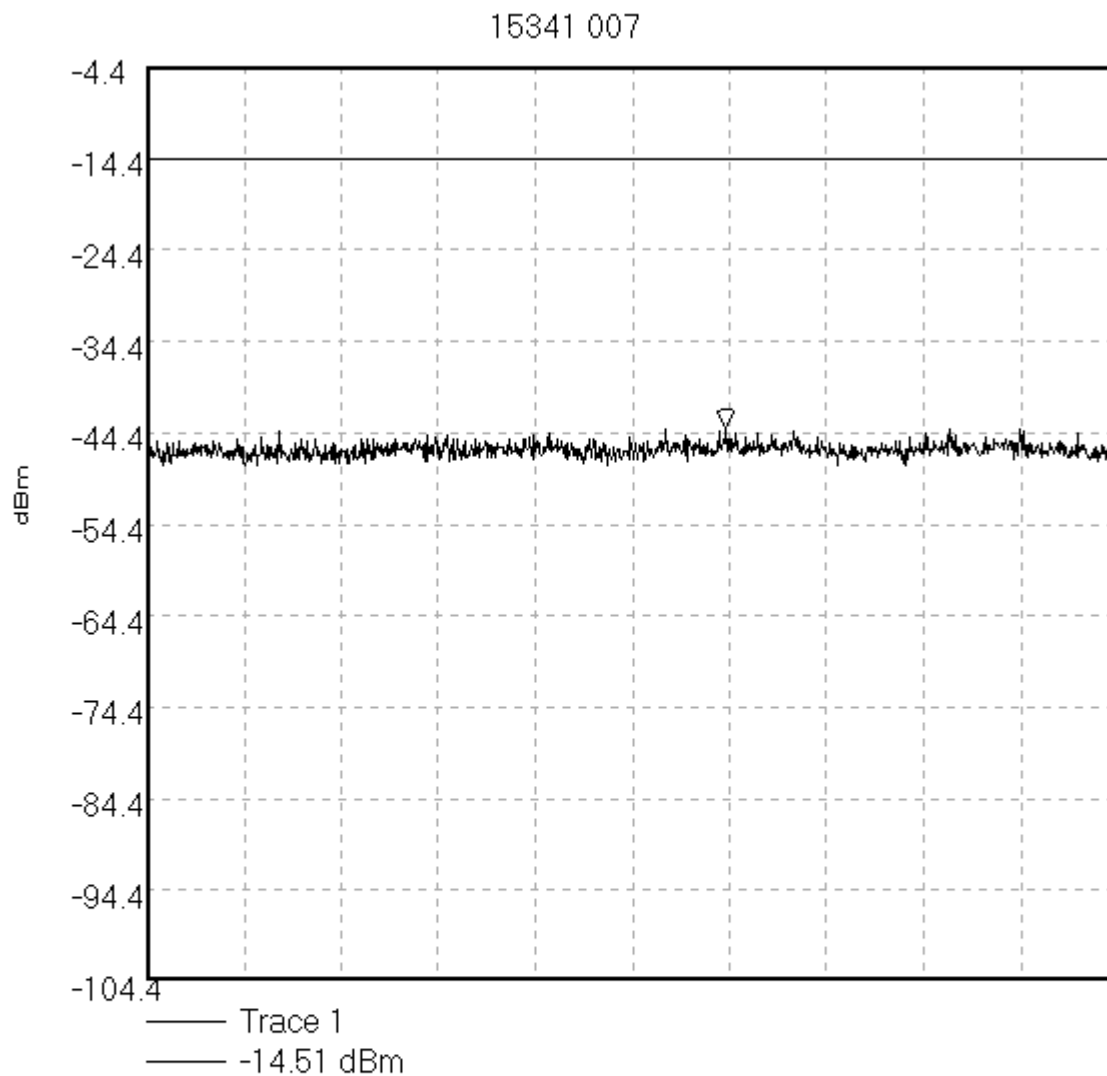
Limit/Mask: Limit Test Passed

13/02/02 10:36:26

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\007

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 6.0 GHz; Stop 7.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 6.597 GHz, -43.76 dBm

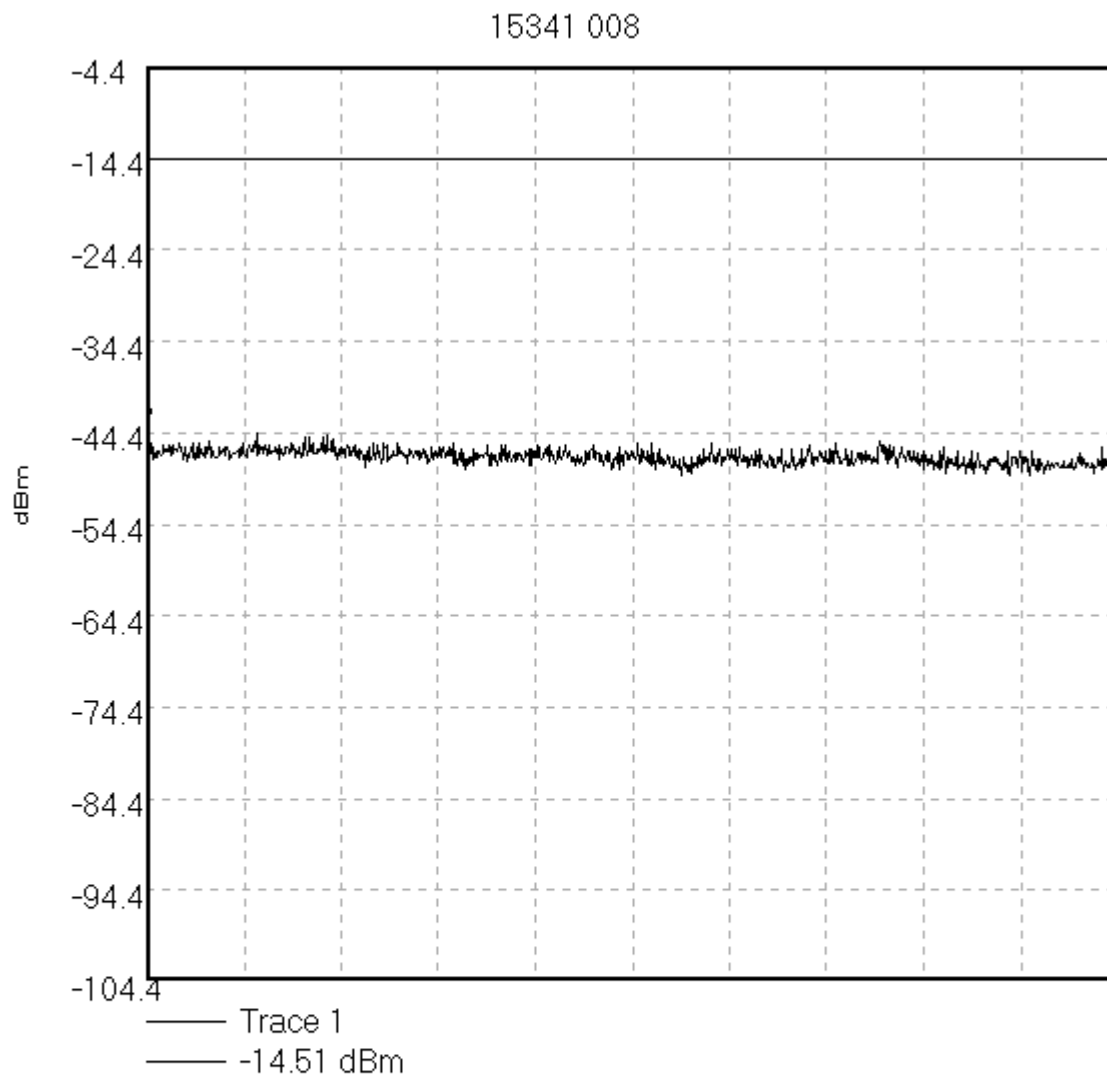
Limit/Mask: Limit Test Passed

13/02/02 10:37:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\008

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 7.0 GHz; Stop 8.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 7.0 GHz, -43.88 dBm

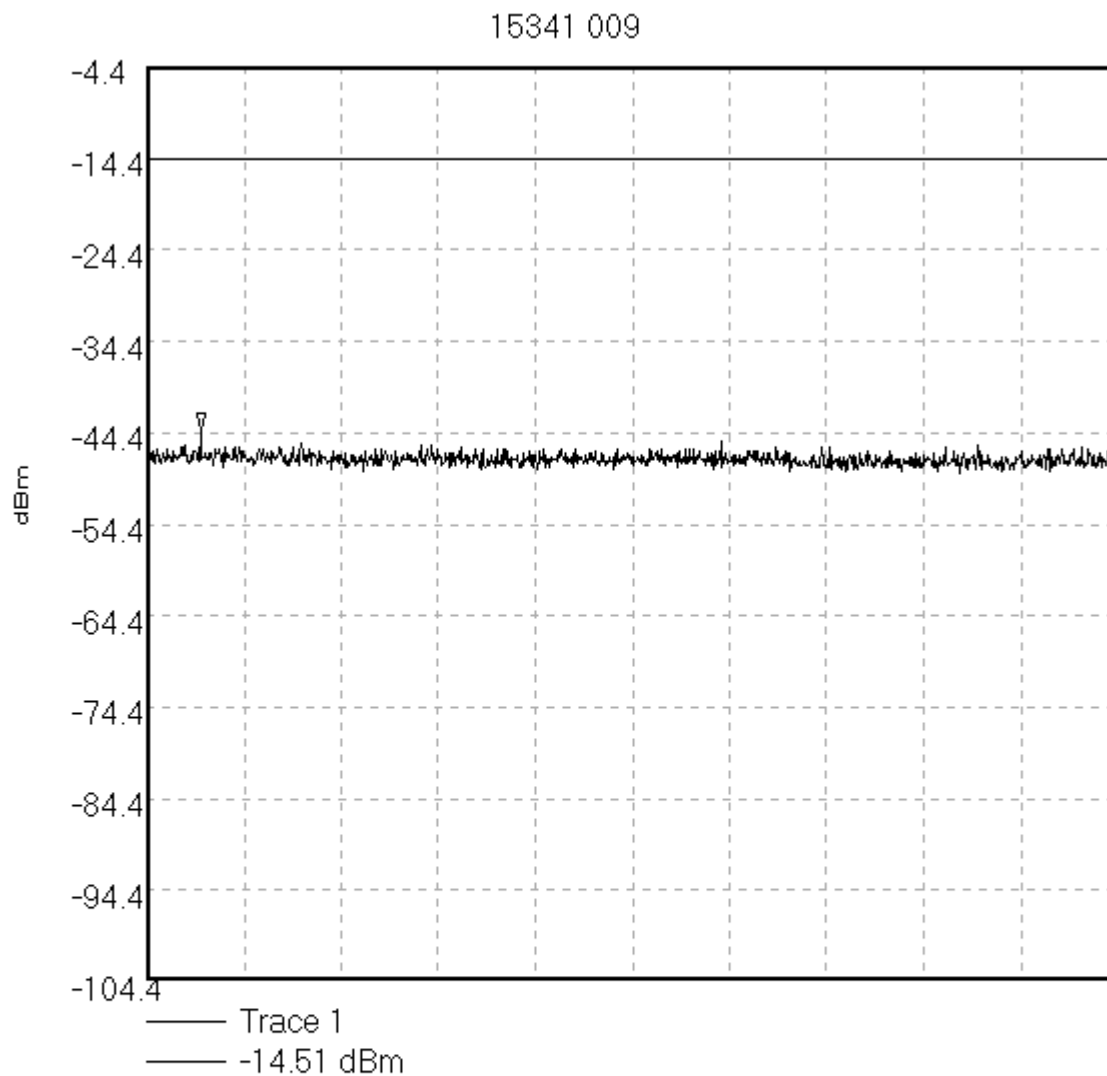
Limit/Mask: Limit Test Passed

13/02/02 10:38:00

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\009

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 8.0 GHz; Stop 9.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 8.056 GHz, -44.31 dBm

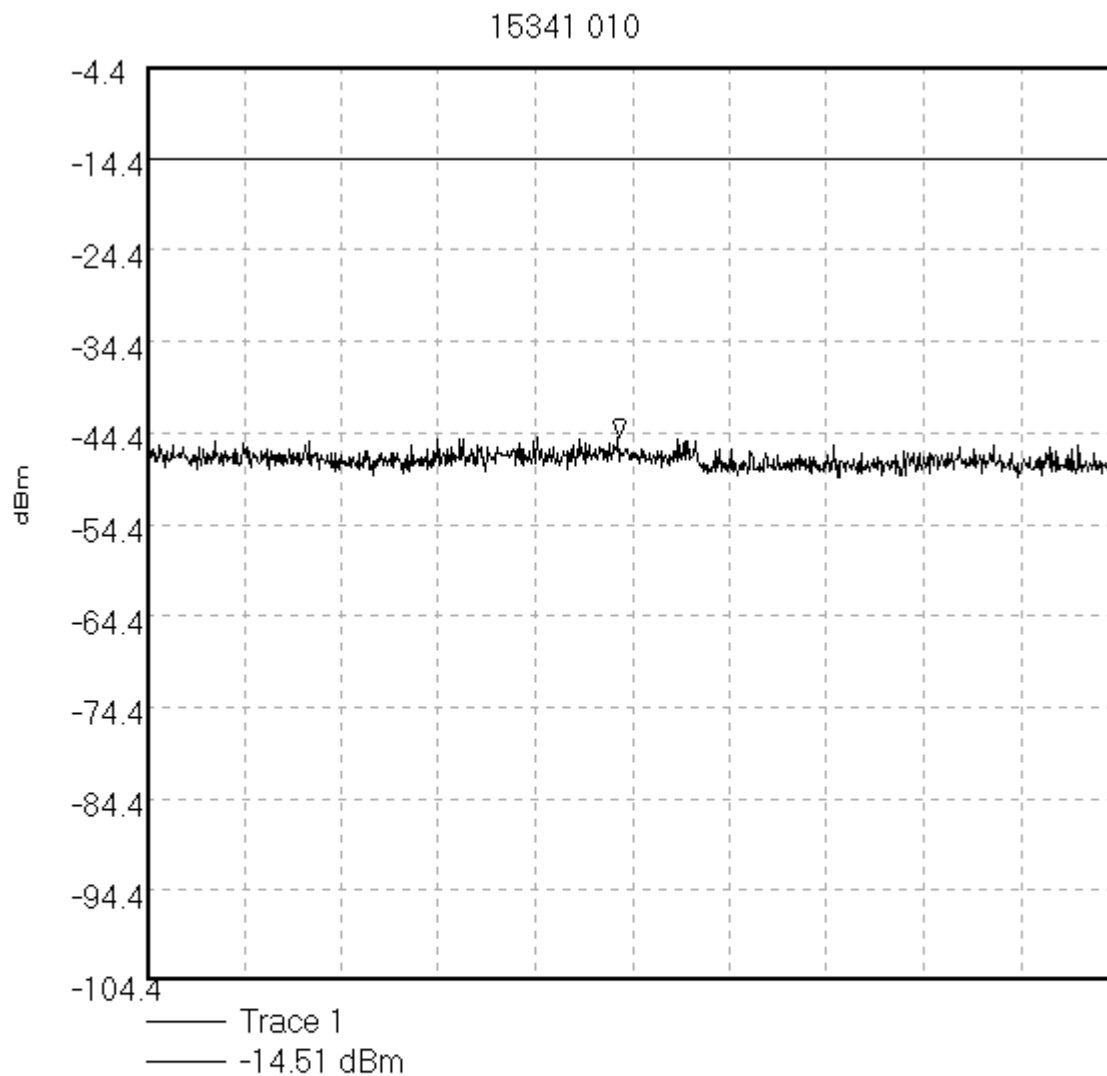
Limit/Mask: Limit Test Passed

13/02/02 10:40:29

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\010

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 9.0 GHz; Stop 10.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 9.486 GHz, -44.85 dBm

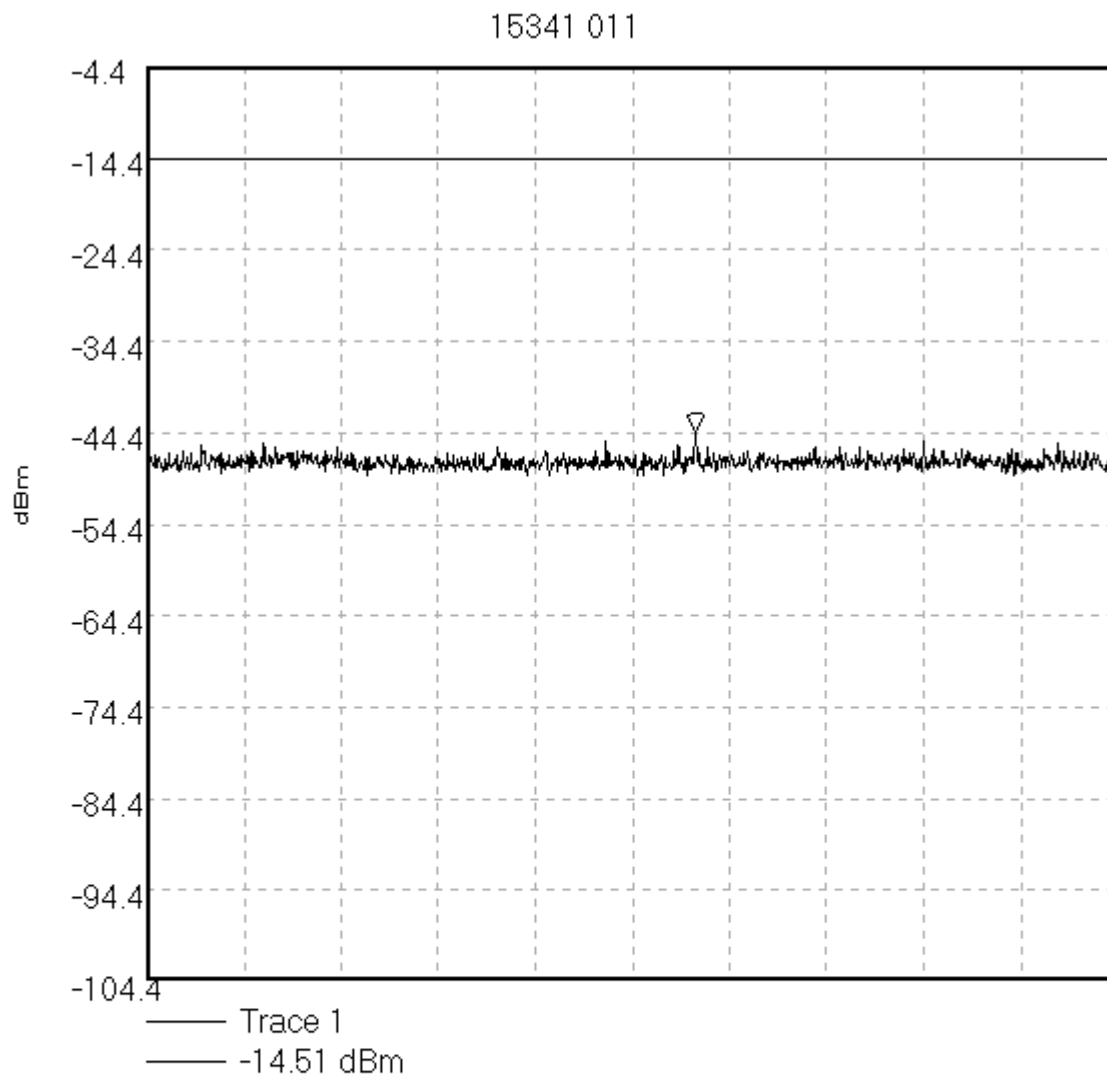
Limit/Mask: Limit Test Passed

13/02/02 10:41:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\011

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 10.0 GHz; Stop 11.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 10.566 GHz, -44.29 dBm

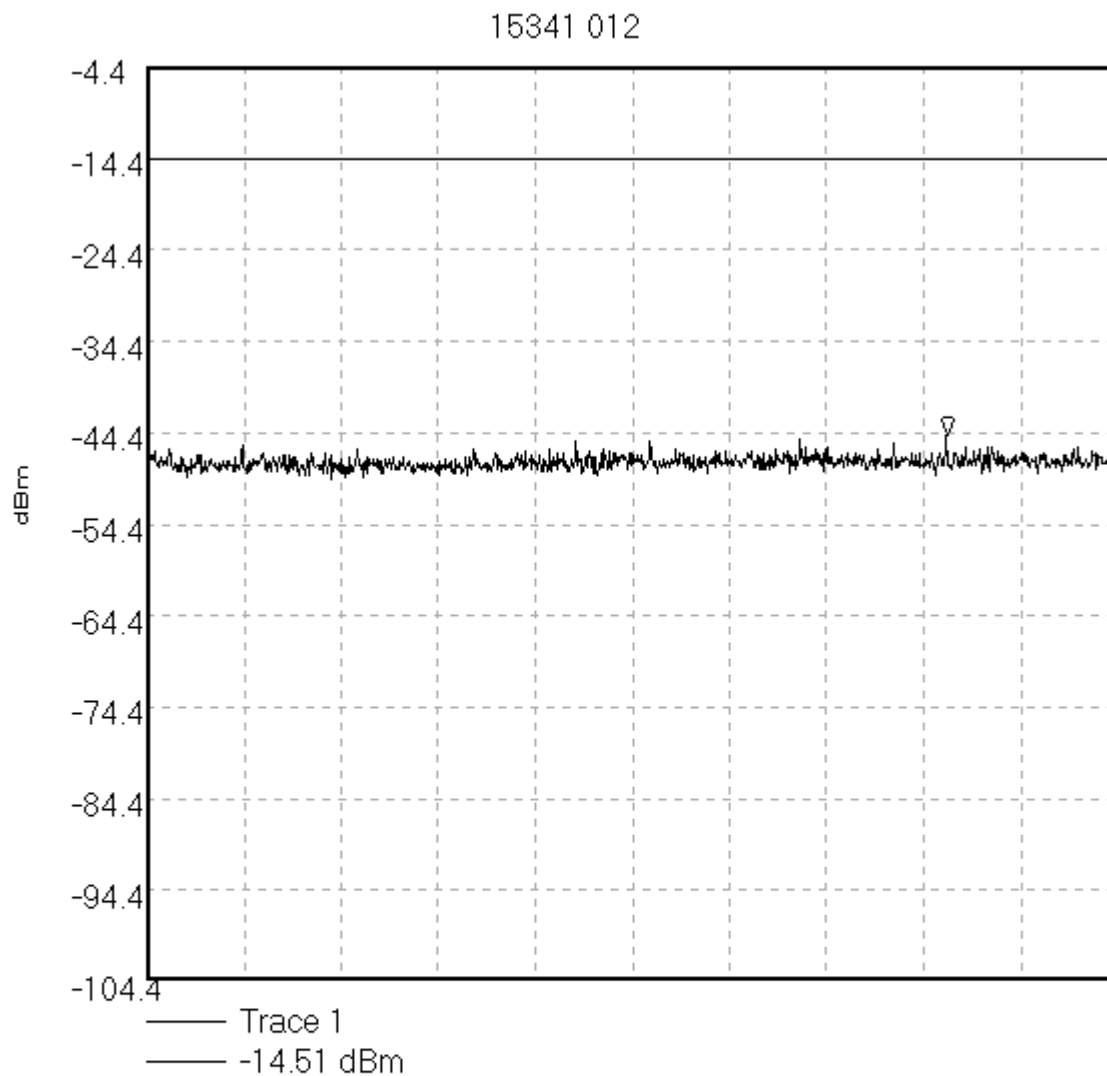
Limit/Mask: Limit Test Passed

13/02/02 10:42:27

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\012

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 11.0 GHz; Stop 12.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 11.824 GHz, -44.59 dBm

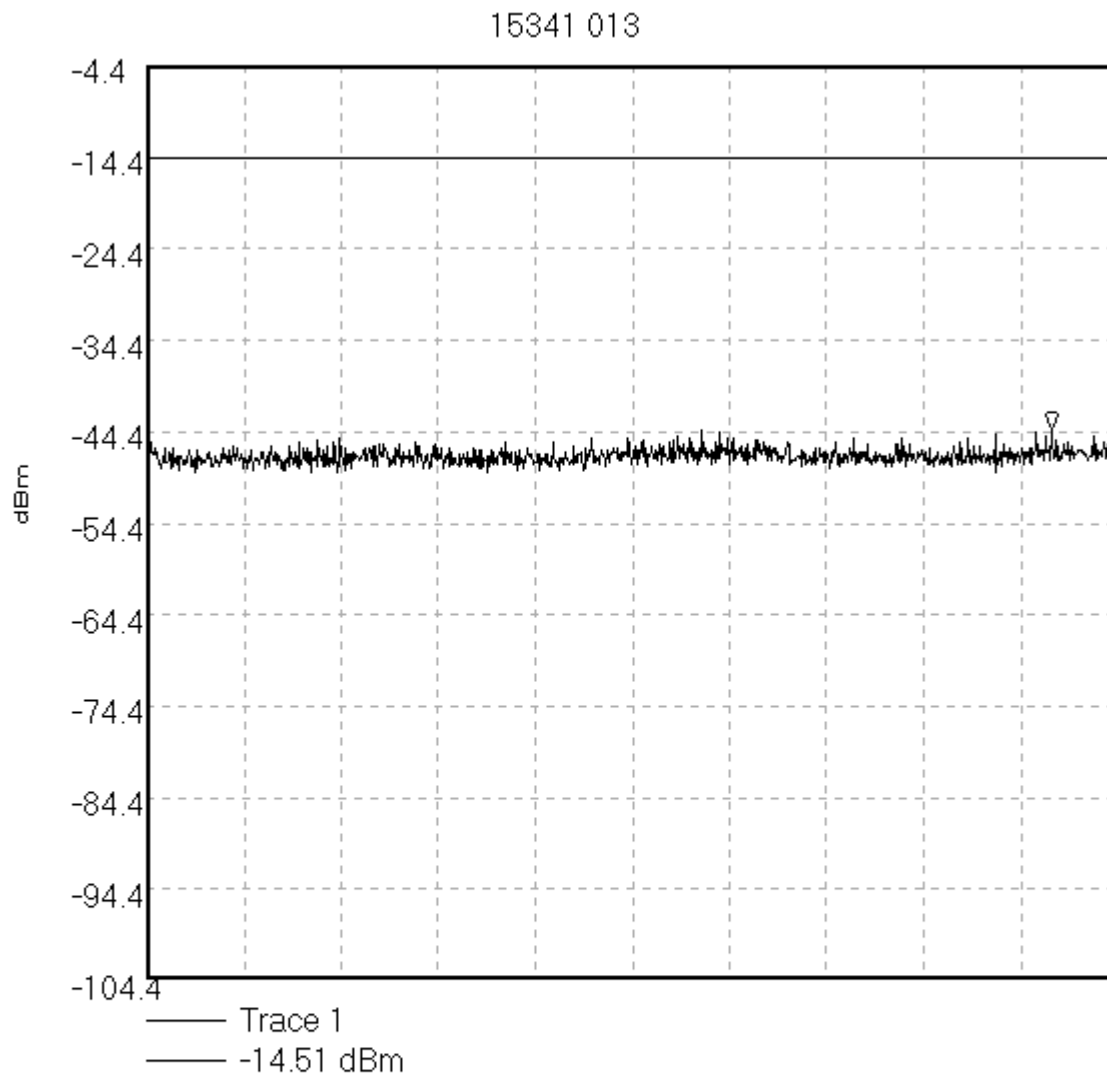
Limit/Mask: Limit Test Passed

13/02/02 10:43:24

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\013

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 12.0 GHz; Stop 13.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 12.932 GHz, -44.24 dBm

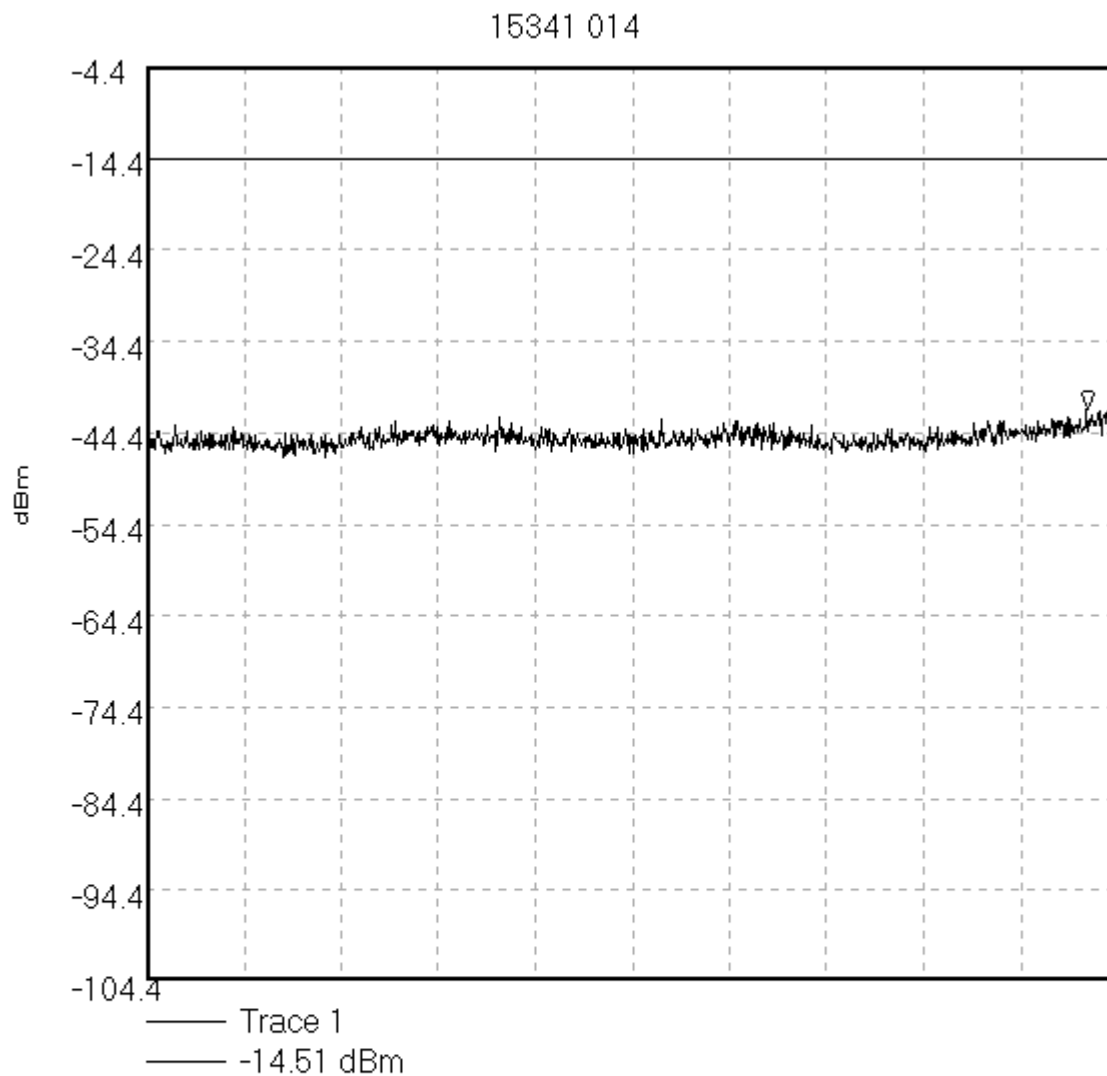
Limit/Mask: Limit Test Passed

13/02/02 10:44:05

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\014

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 13.0 GHz; Stop 14.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 13.969 GHz, -41.77 dBm

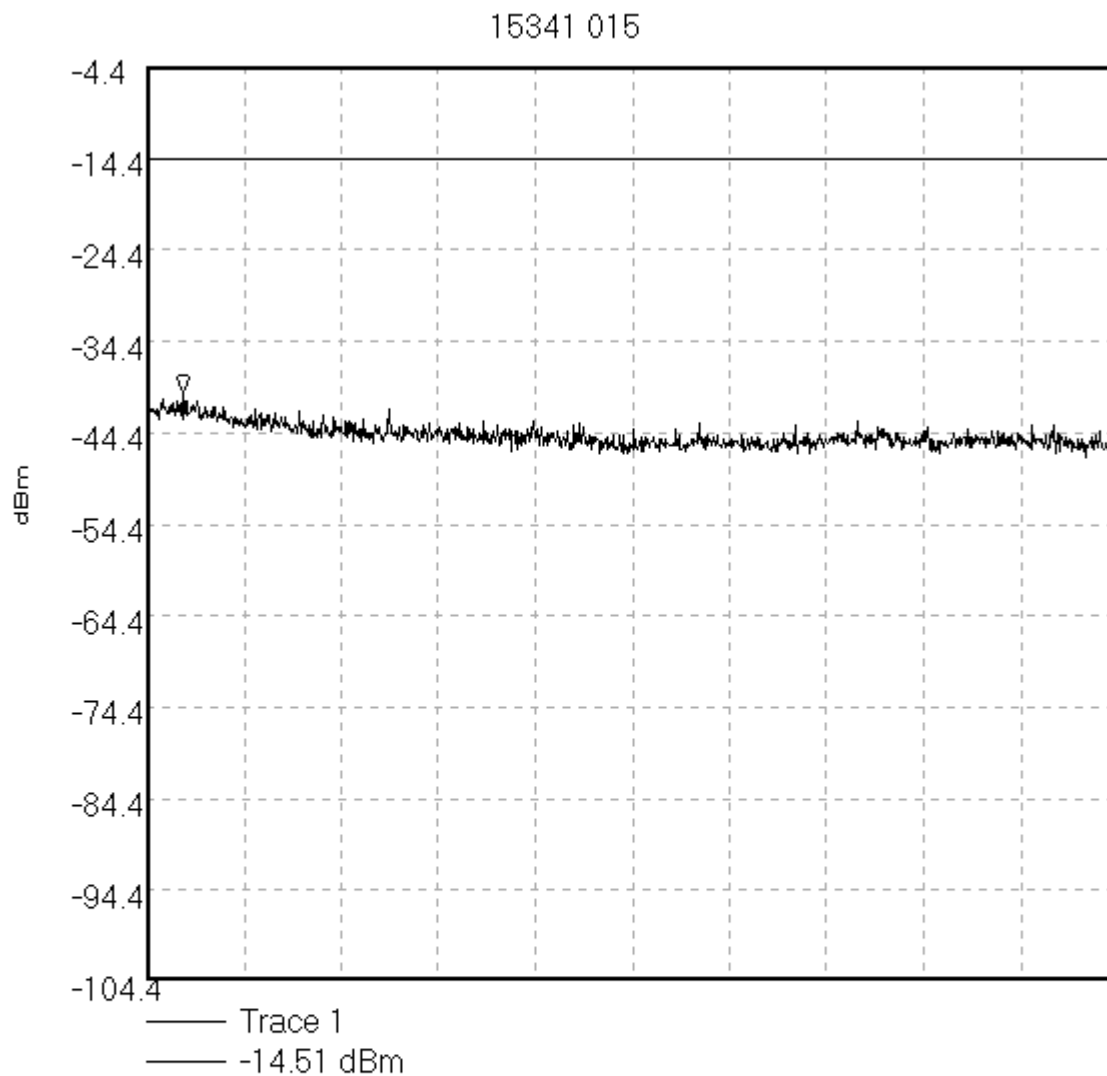
Limit/Mask: Limit Test Passed

13/02/02 10:44:41

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\015

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 14.0 GHz; Stop 15.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 14.037 GHz, -40.12 dBm

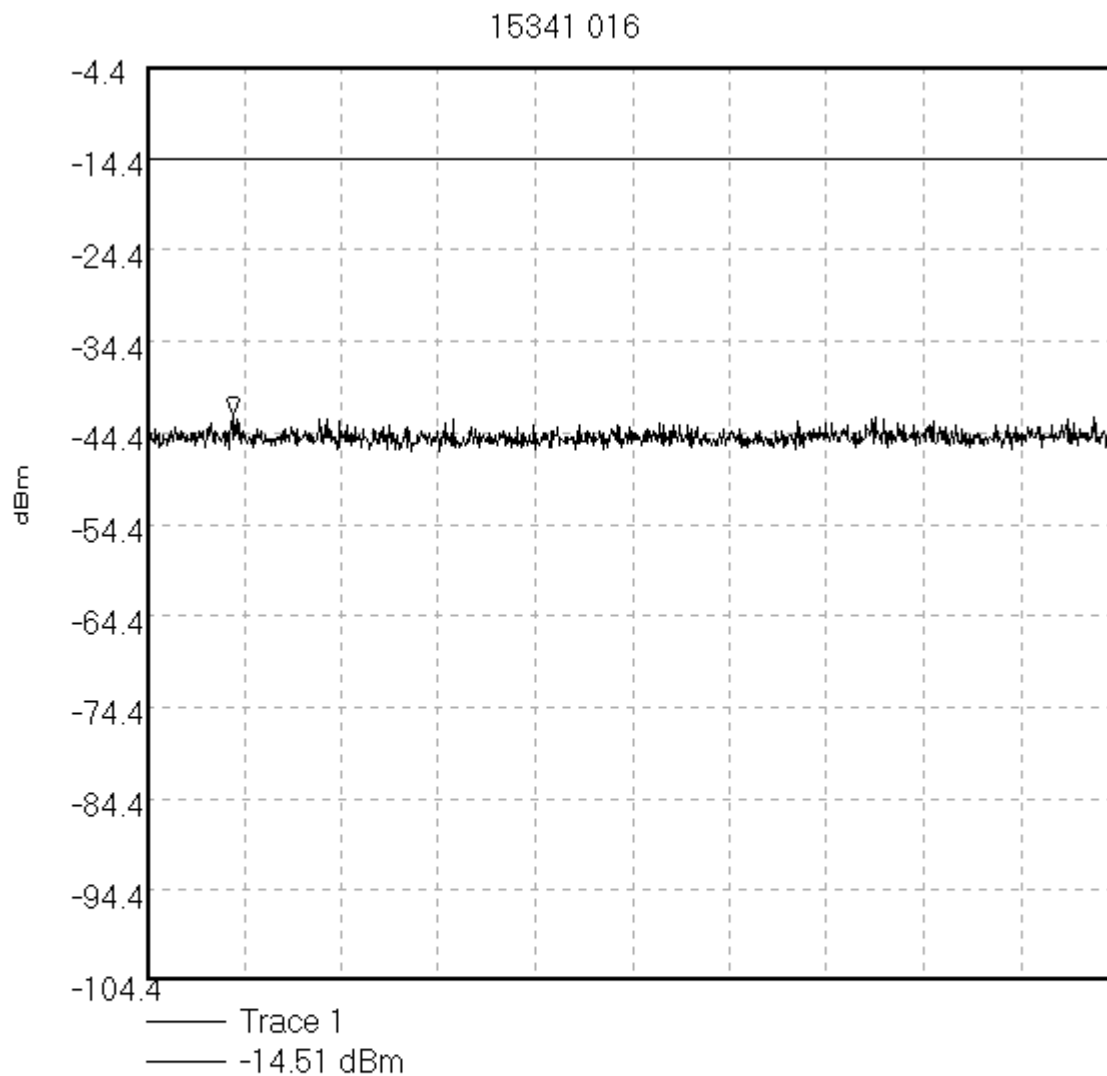
Limit/Mask: Limit Test Passed

13/02/02 10:45:31

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\016

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 15.0 GHz; Stop 16.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 15.088 GHz, -42.49 dBm

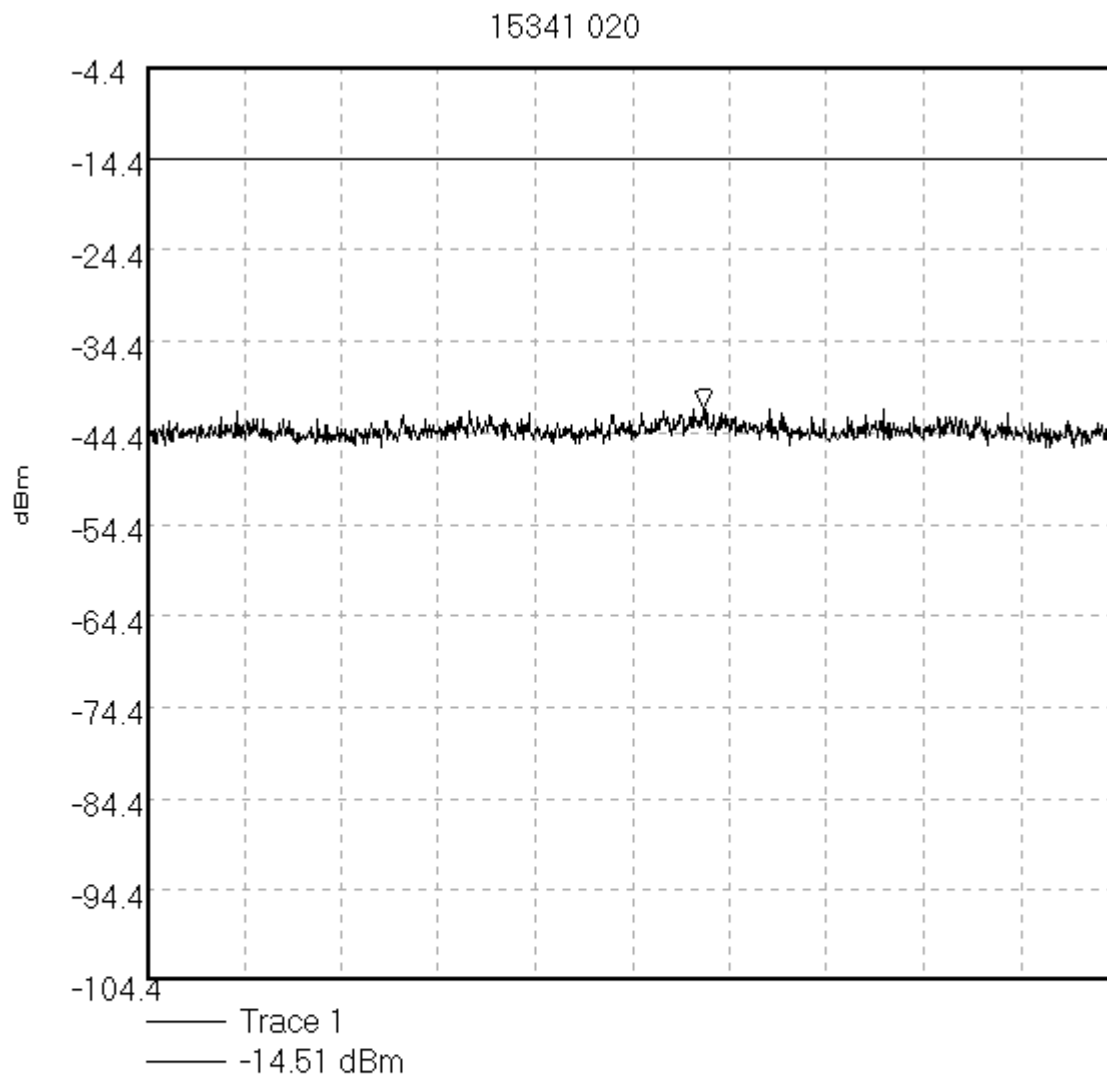
Limit/Mask: Limit Test Passed

13/02/02 10:46:10

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\020

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 16.0 GHz; Stop 17.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 16.574 GHz, -41.65 dBm

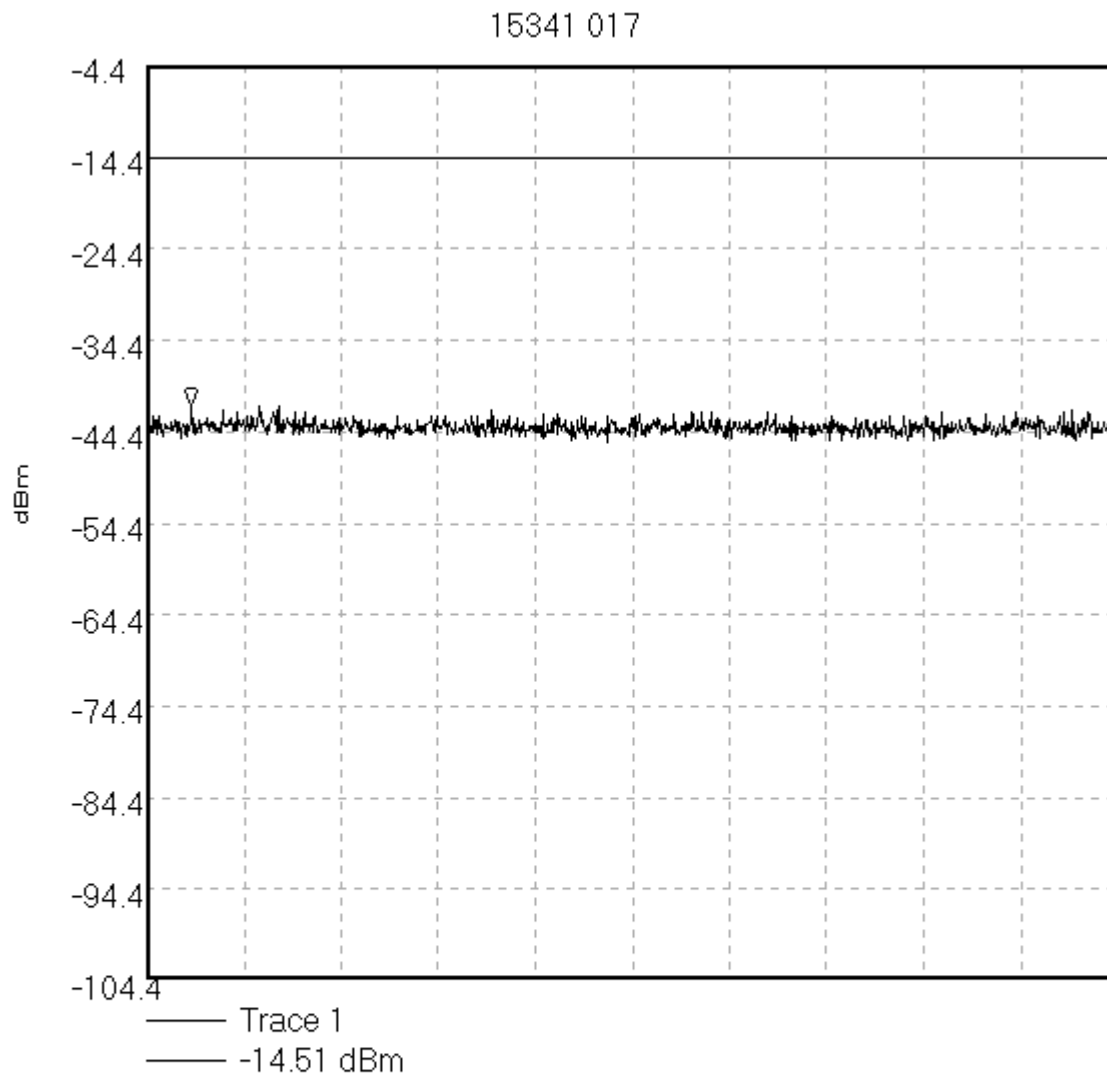
Limit/Mask: Limit Test Passed

13/02/02 10:49:25

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\017

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 17.0 GHz; Stop 18.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 17.046 GHz, -41.65 dBm

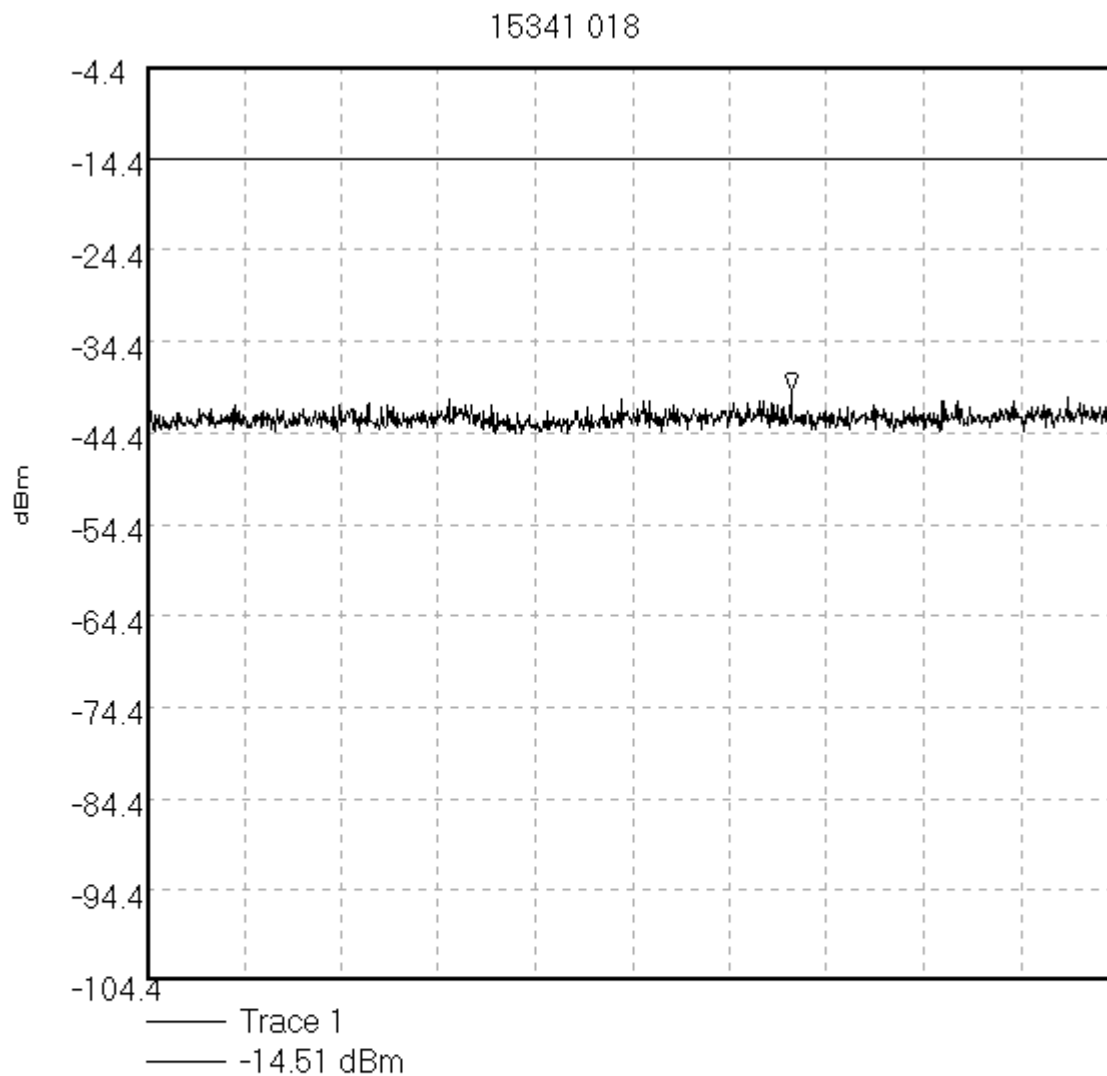
Limit/Mask: Limit Test Passed

13/02/02 10:47:00

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\018

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 18.0 GHz; Stop 19.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 18.664 GHz, -39.84 dBm

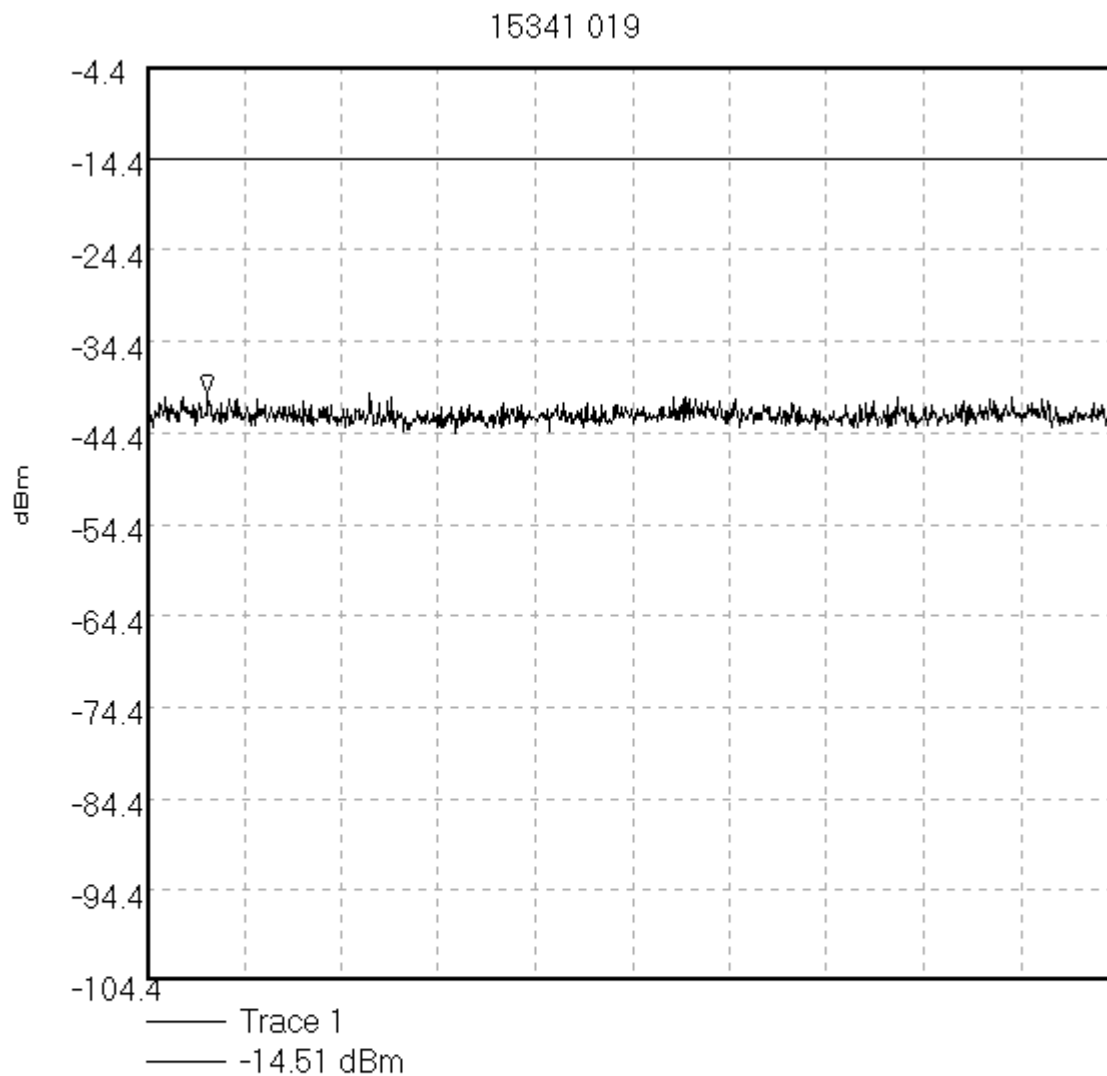
Limit/Mask: Limit Test Passed

13/02/02 10:47:46

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341\019

Testing of Danger HIPTOP PCS phone to FCC part 15.238.
Operating Condition: Channel 512 Tx High Power.



Start 19.0 GHz; Stop 20.0 GHz

Ref -4.4 dBm; Ref Offset 42.8 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 5 dB; Swp 20.0 mS

Peak 19.062 GHz, -40.05 dBm

Limit/Mask: Limit Test Passed

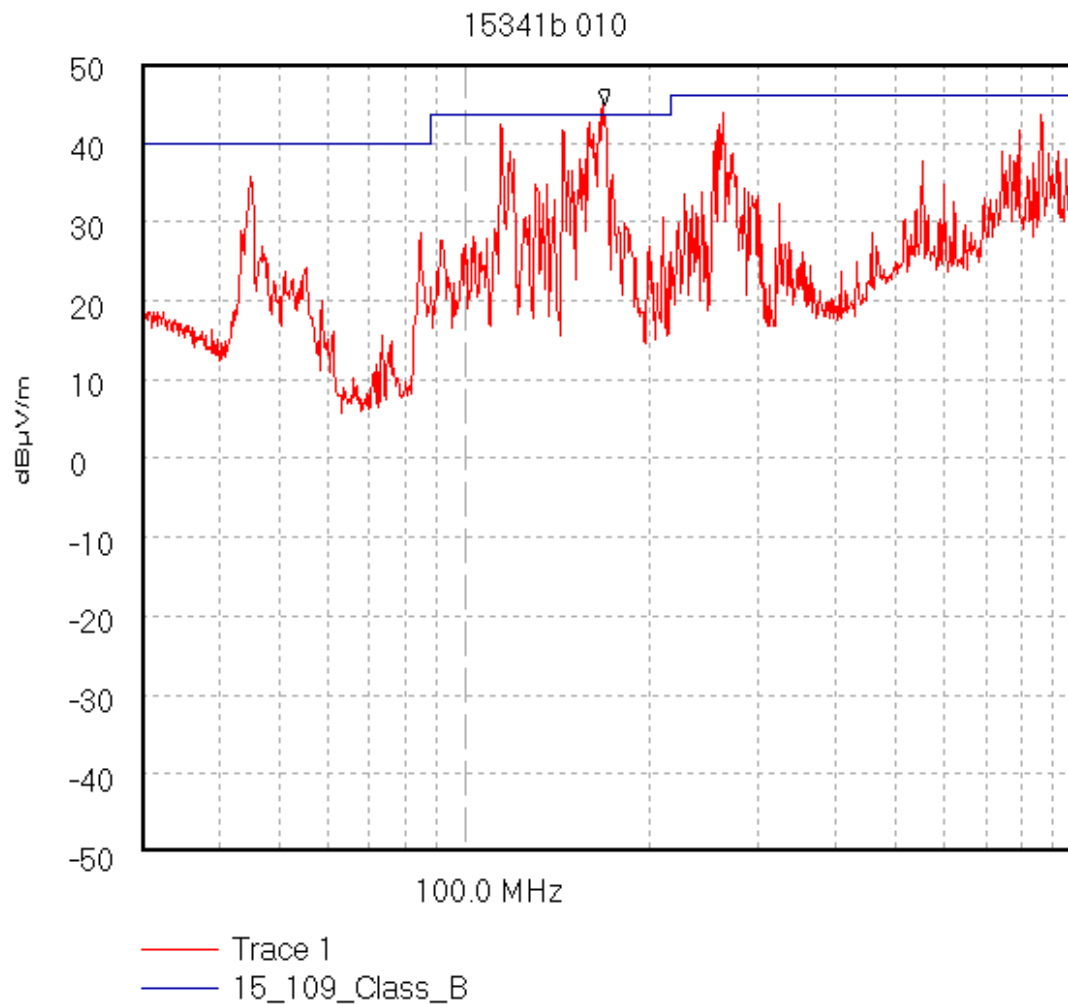
13/02/02 10:48:29

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone

To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\010

**Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 3m.
Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle.**



Start 30.0 MHz; Stop 1.0 GHz - Log Scale

Ref 50 dBµV/m; Ref Offset 0.0 dB; 10 dB/div

RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 380.0 mS

Peak 168.545 MHz, 44.72 dBµV/m

Limit/Mask: 15_109_Class_B; ; Limit Test Failed

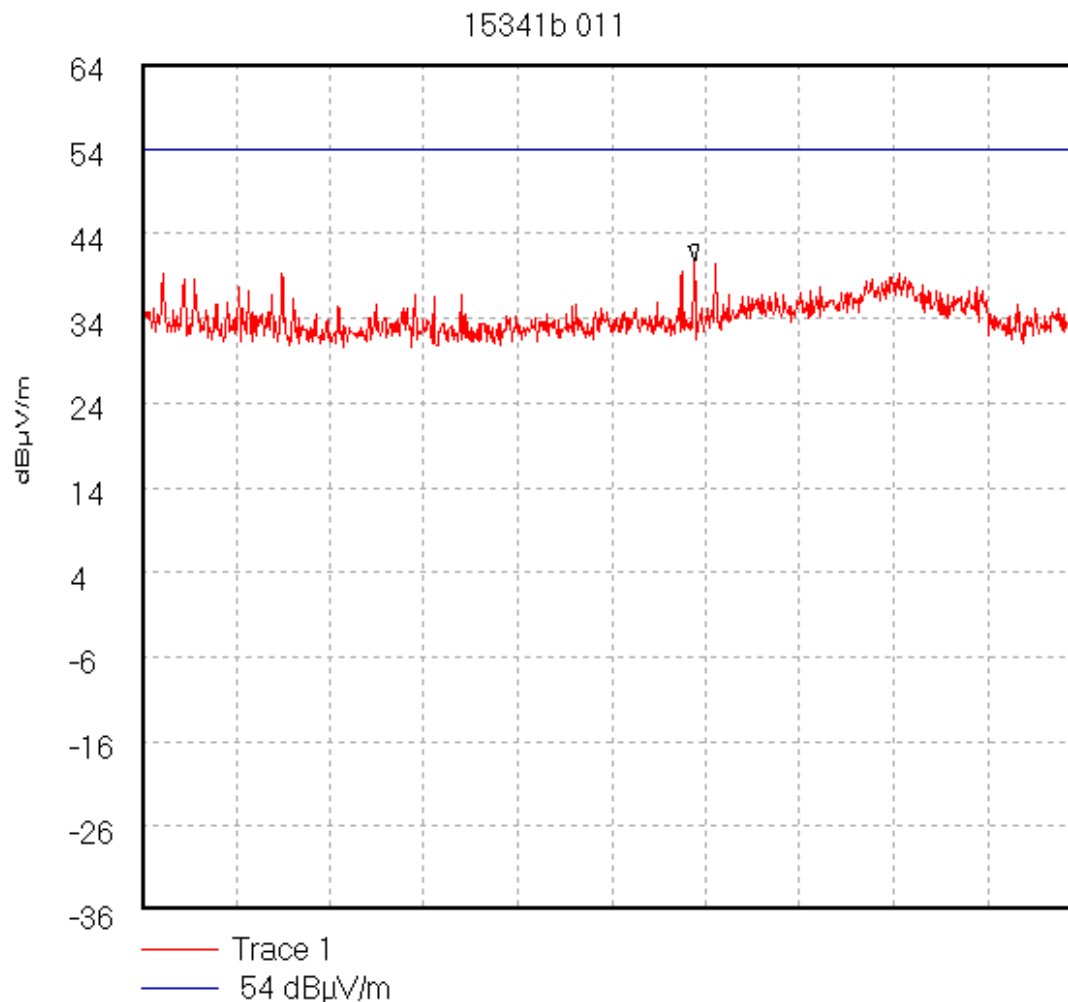
Transducer Factors: A490

14/02/2002 10:42:24

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\011

**Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 1m.
Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle.**



Start 1.0 GHz; Stop 2.0 GHz

Ref 64 dBµV/m; Ref Offset -10.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.589 GHz, 40.77 dBµV/m

Display Line: 54 dBµV/m; ; Limit Test Failed

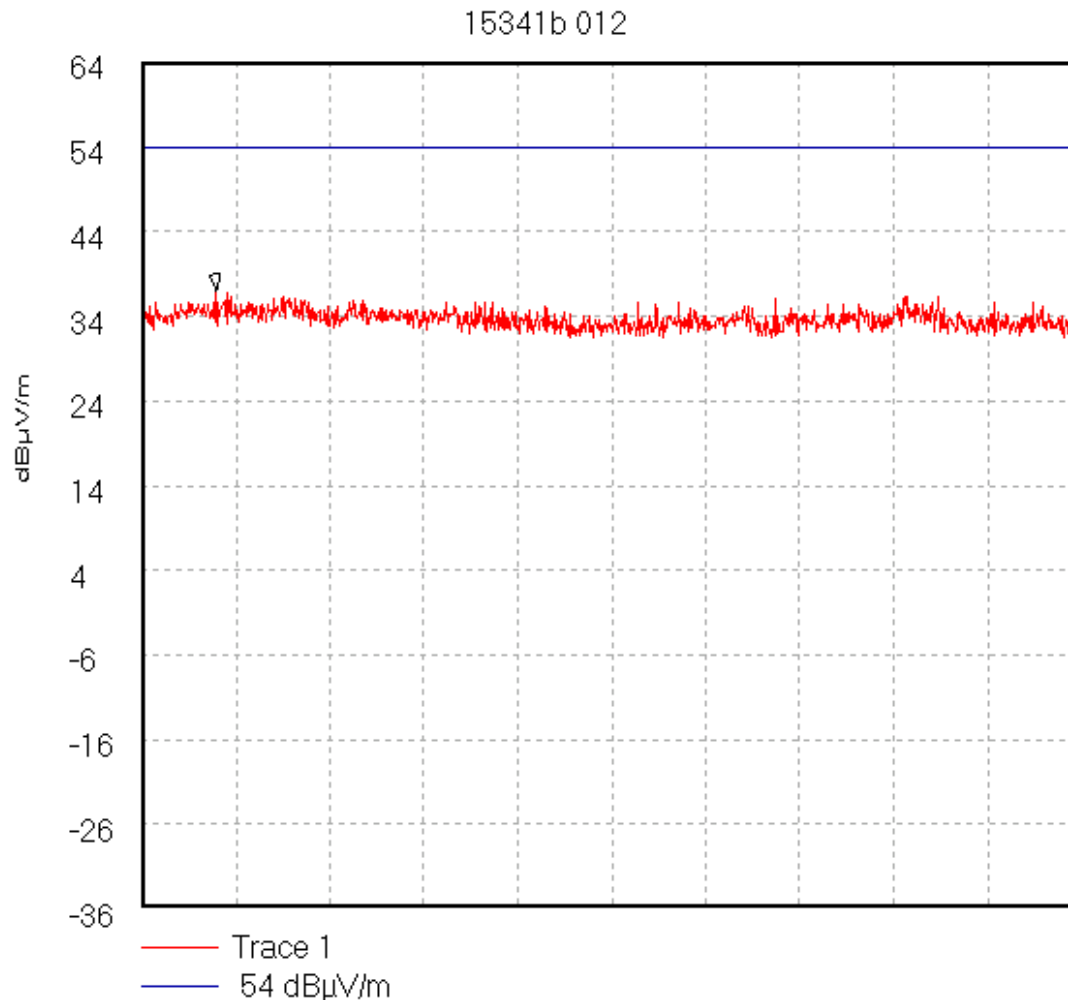
Transducer Factors: 1 to 2

14/02/2002 11:10:22

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\012

**Radiated Emissions. FCC Part 15.109 Class B. PreScan @ 1m.
Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle.**



Start 2.0 GHz; Stop 4.0 GHz

Ref 64 dBµV/m; Ref Offset -10.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.158 GHz, 36.99 dBµV/m

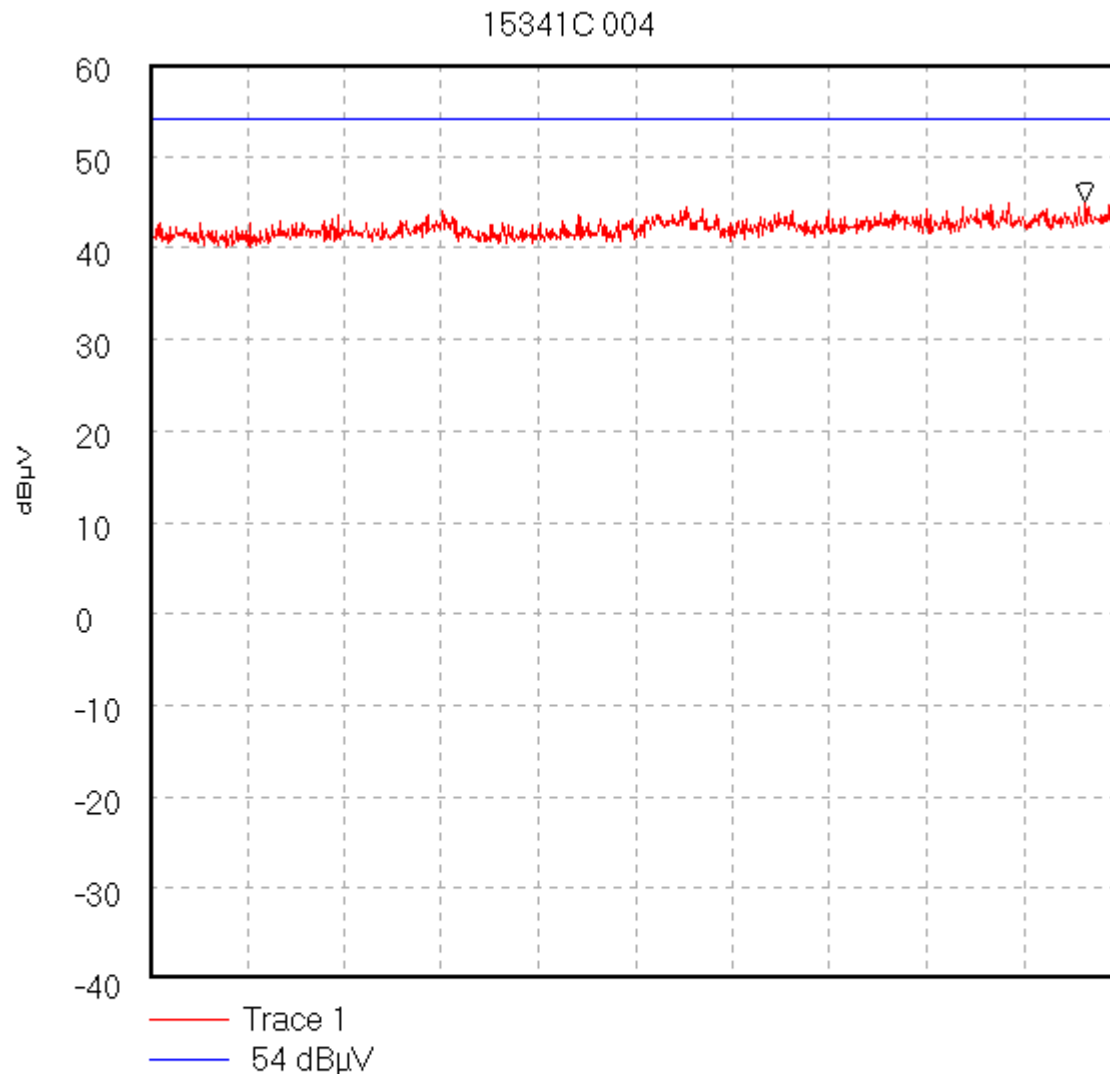
Display Line: 54 dBµV/m; ; Limit Test Passed

Transducer Factors: 2 to 4

14/02/2002 11:15:20

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\004

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle Mode.**

Start 4.0 GHz; Stop 5.0 GHz

Ref 60 dBμV; Ref Offset 24.9 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

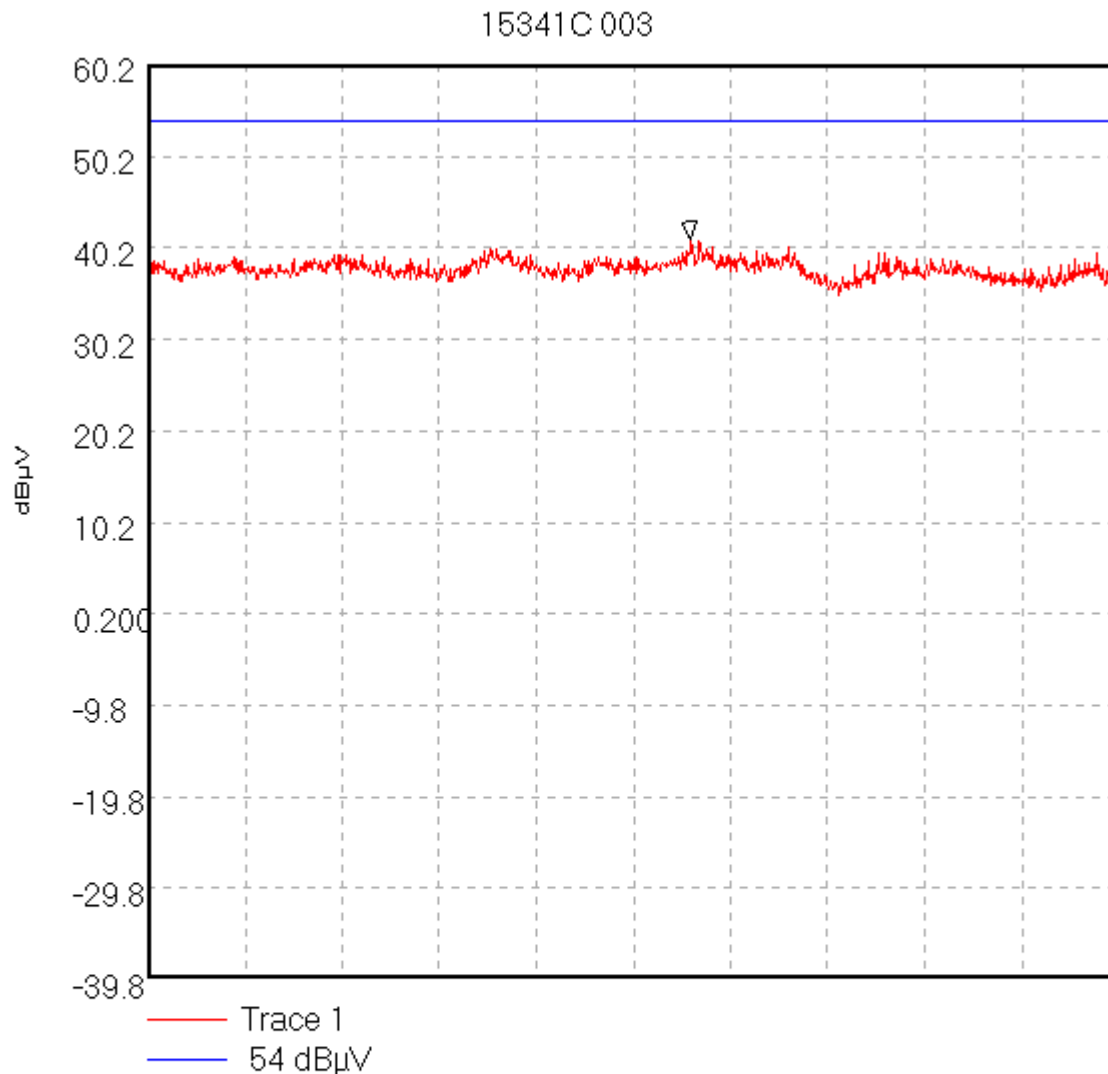
Peak 4.964 GHz, 45.12 dBμV

Display Line: 54 dBμV; ; Limit Test Passed

15/02/02 14:03:20

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\003

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle Mode.**

Start 5.0 GHz; Stop 6.0 GHz

Ref 60.2 dB μ V; Ref Offset 25.1 dB; 10 dB/div

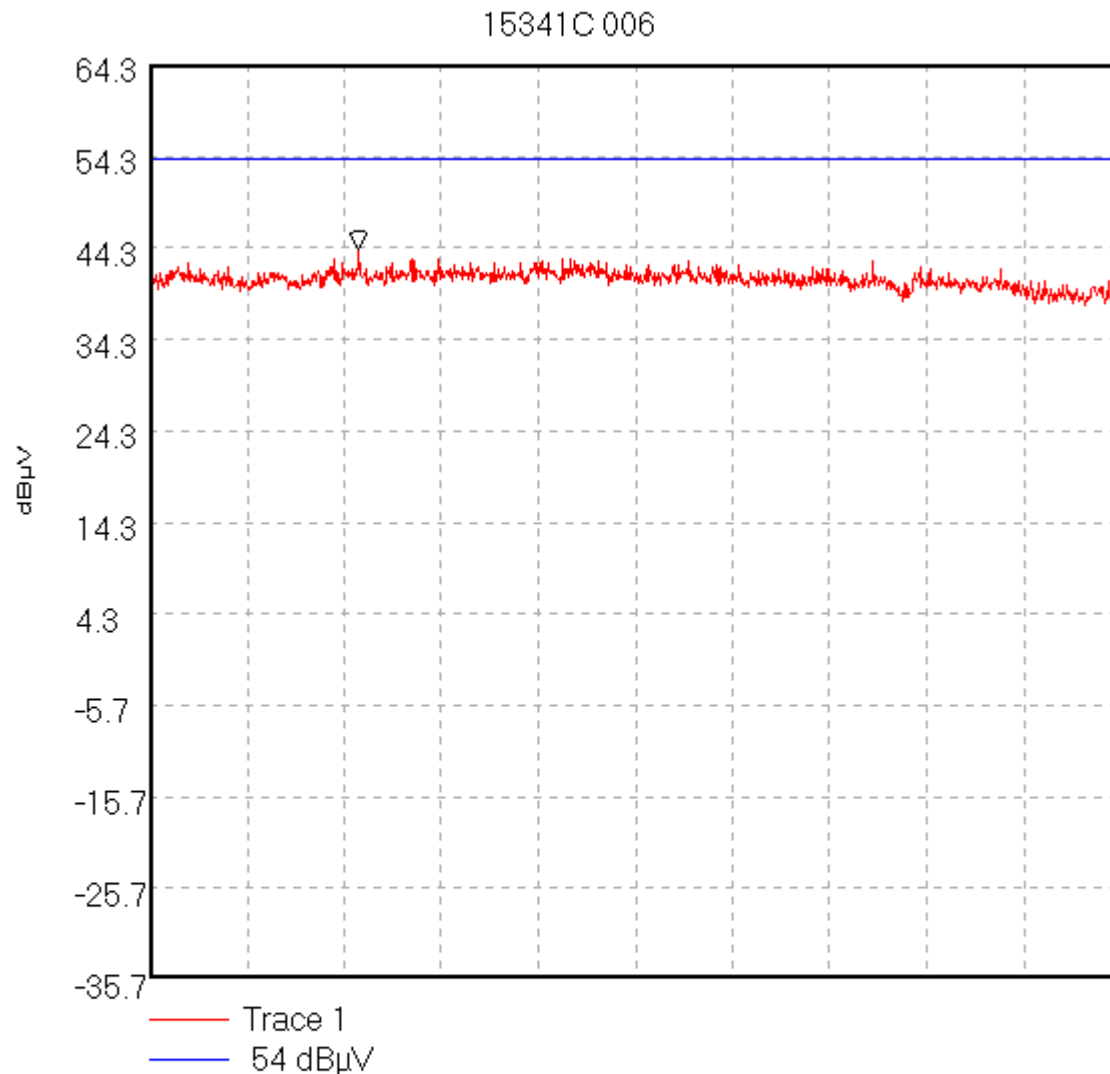
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 5.56 GHz, 41.08 dB μ VDisplay Line: 54 dB μ V; ; Limit Test Passed

15/02/02 13:59:04

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\006

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle mode.**

Start 6.0 GHz; Stop 8.0 GHz

Ref 64.3 dBμV; Ref Offset 29.2 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

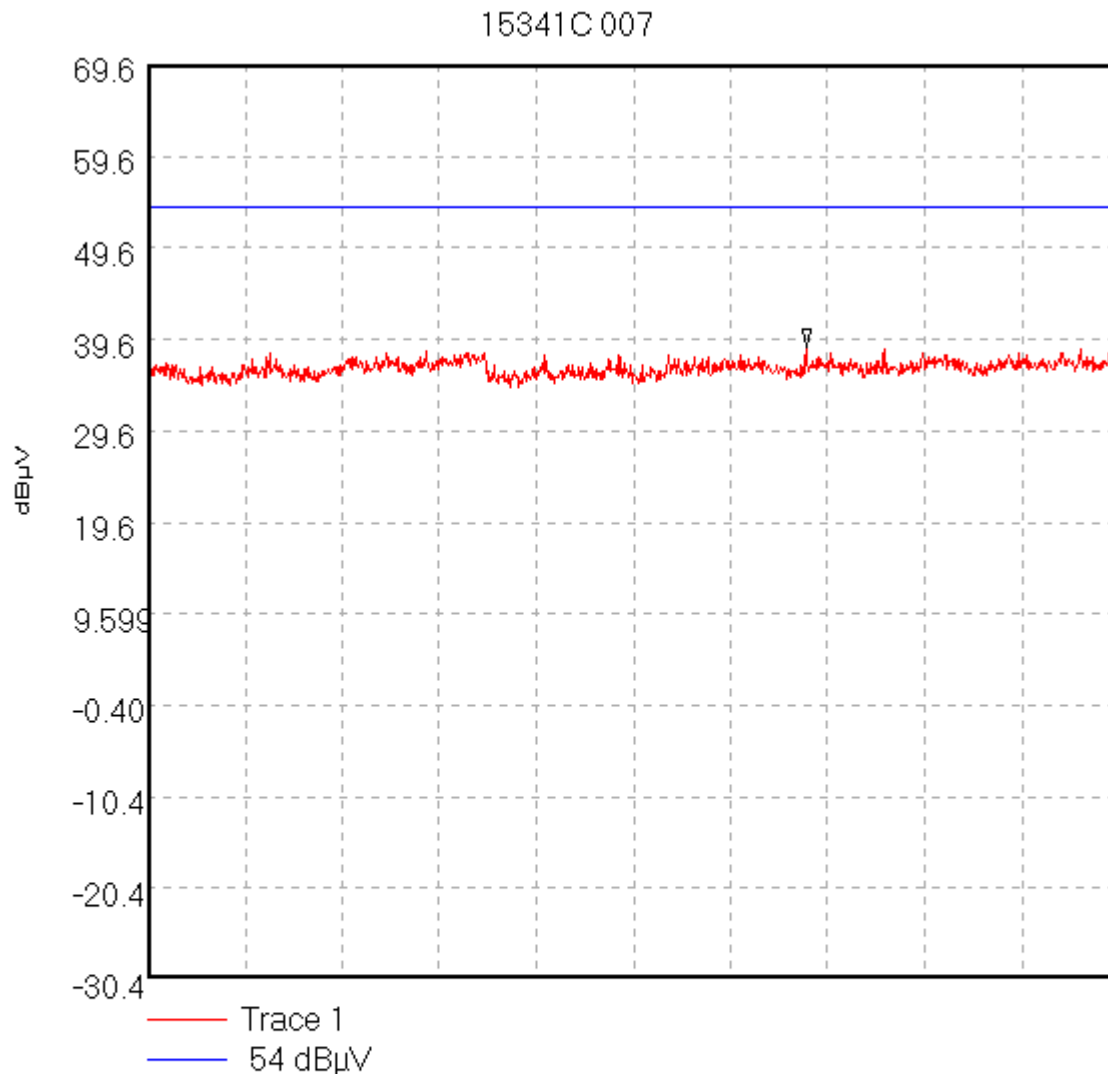
Peak 6.431 GHz, 44.17 dBμV

Display Line: 54 dBμV; ; Limit Test Passed

15/02/02 14:15:44

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\007

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle mode. at 1m.**

Start 8.0 GHz; Stop 12.5 GHz

Ref 69.6 dBμV; Ref Offset 24.5 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

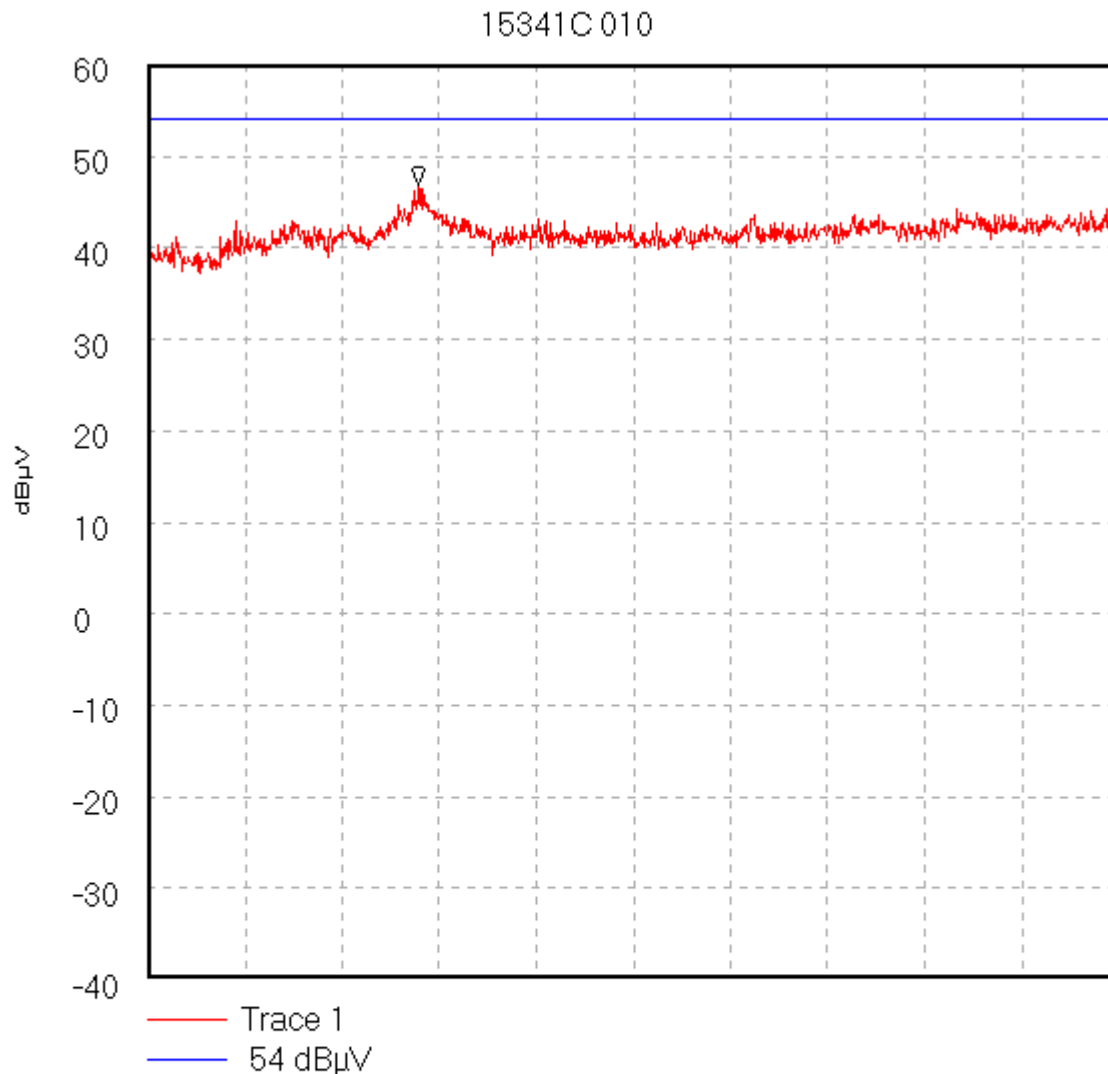
Peak 11.055 GHz, 38.65 dBμV

Display Line: 54 dBμV; ; Limit Test Passed

15/02/02 14:23:05

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\010

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle mode . at 1m.**

Start 12.5 GHz; Stop 18.0 GHz

Ref 60 dBμV; Ref Offset 28.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

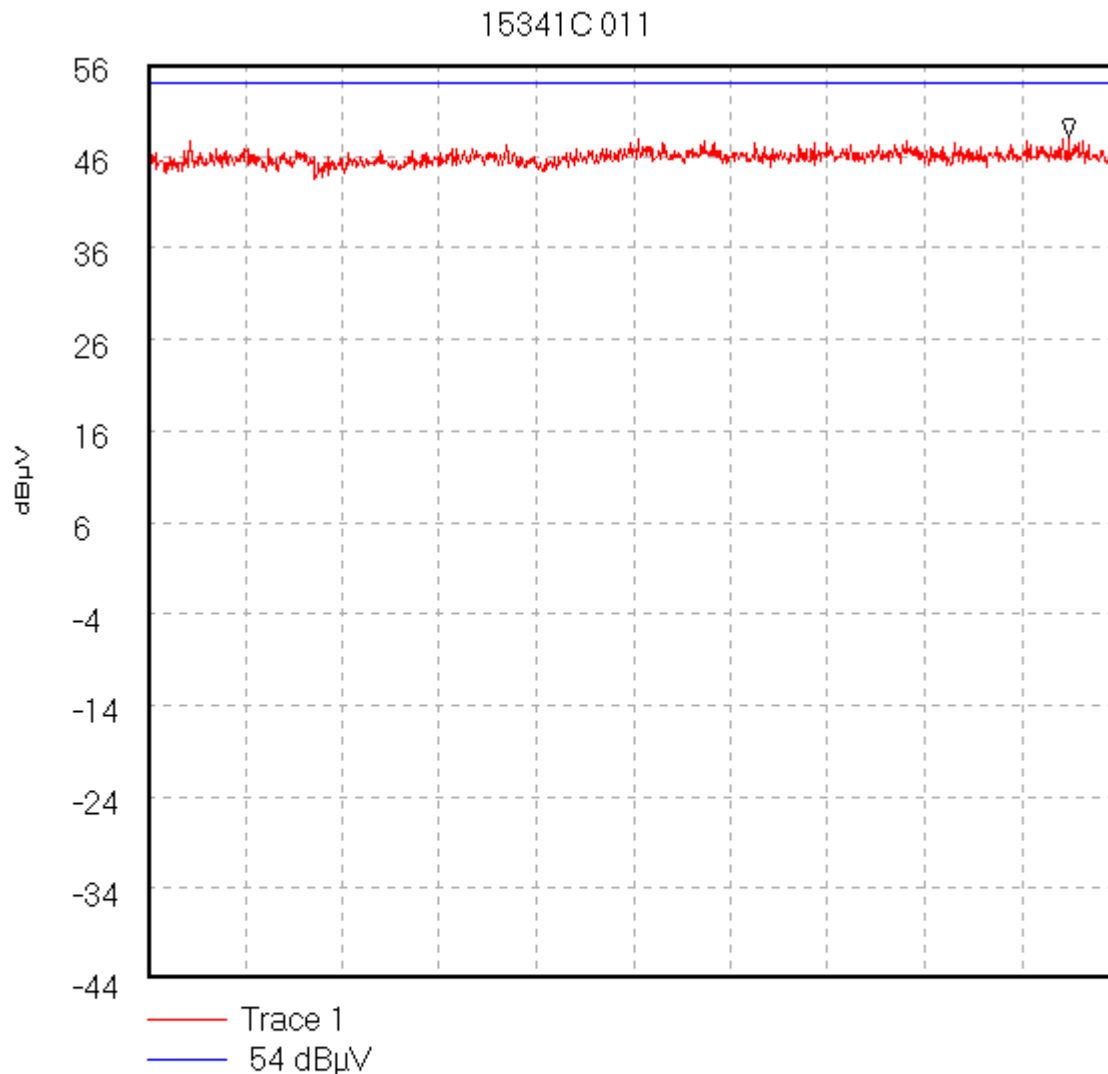
Peak 14.034 GHz, 46.8 dBμV

Display Line: 54 dBμV; ; Limit Test Passed

15/02/02 14:41:19

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\011

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle mode . at 1m.**

Start 18.0 GHz; Stop 20.0 GHz

Ref 56 dBµV; Ref Offset 30.2 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 19.898 GHz, 48.08 dBµV

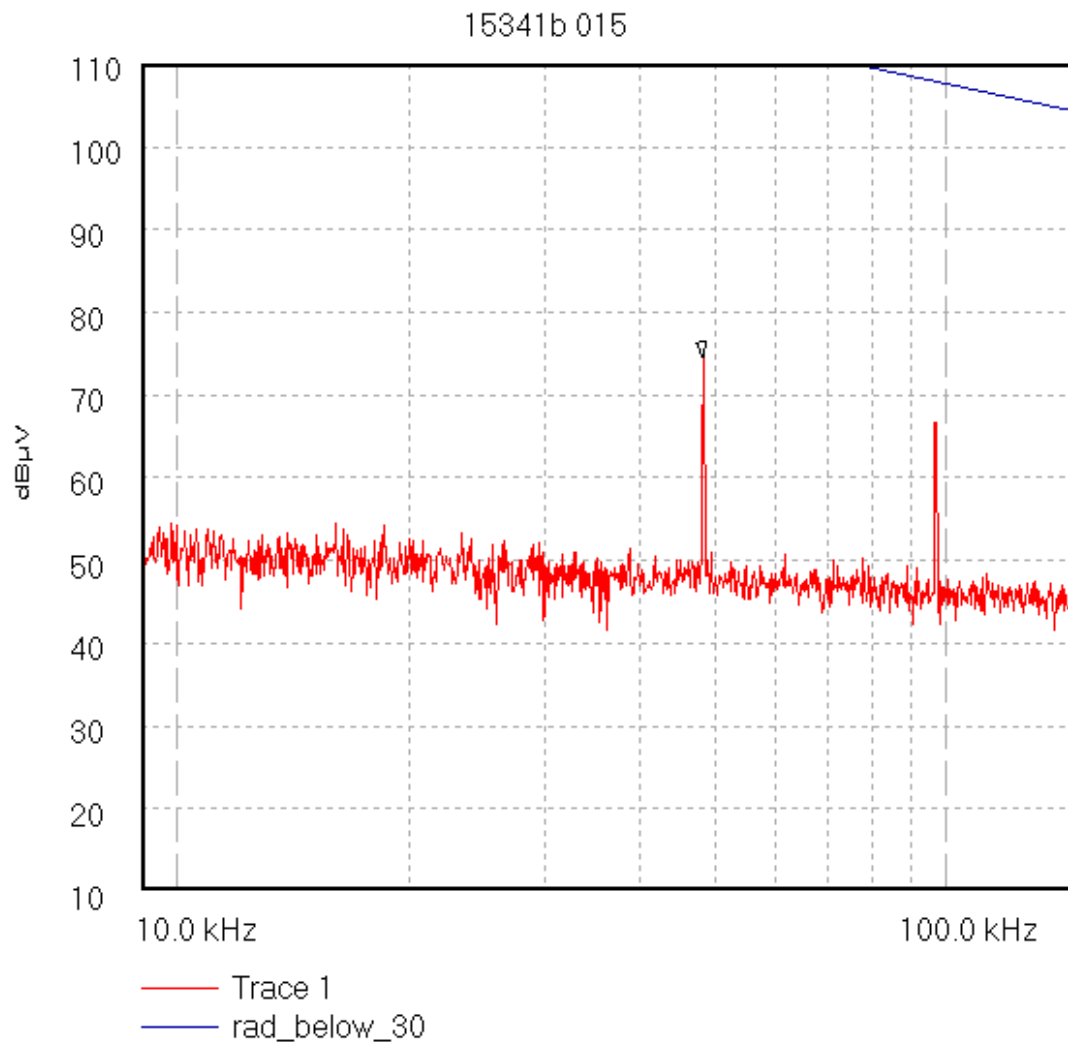
Display Line: 54 dBµV; ; Limit Test Passed

15/02/02 14:49:33

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\015

Radiated Emissions. FCC Part 15.209 Class B. PreScan @ 3m.
Test for Danger of HIPTOP PCS. Operating Condition: Channel 512 Tx High Power.

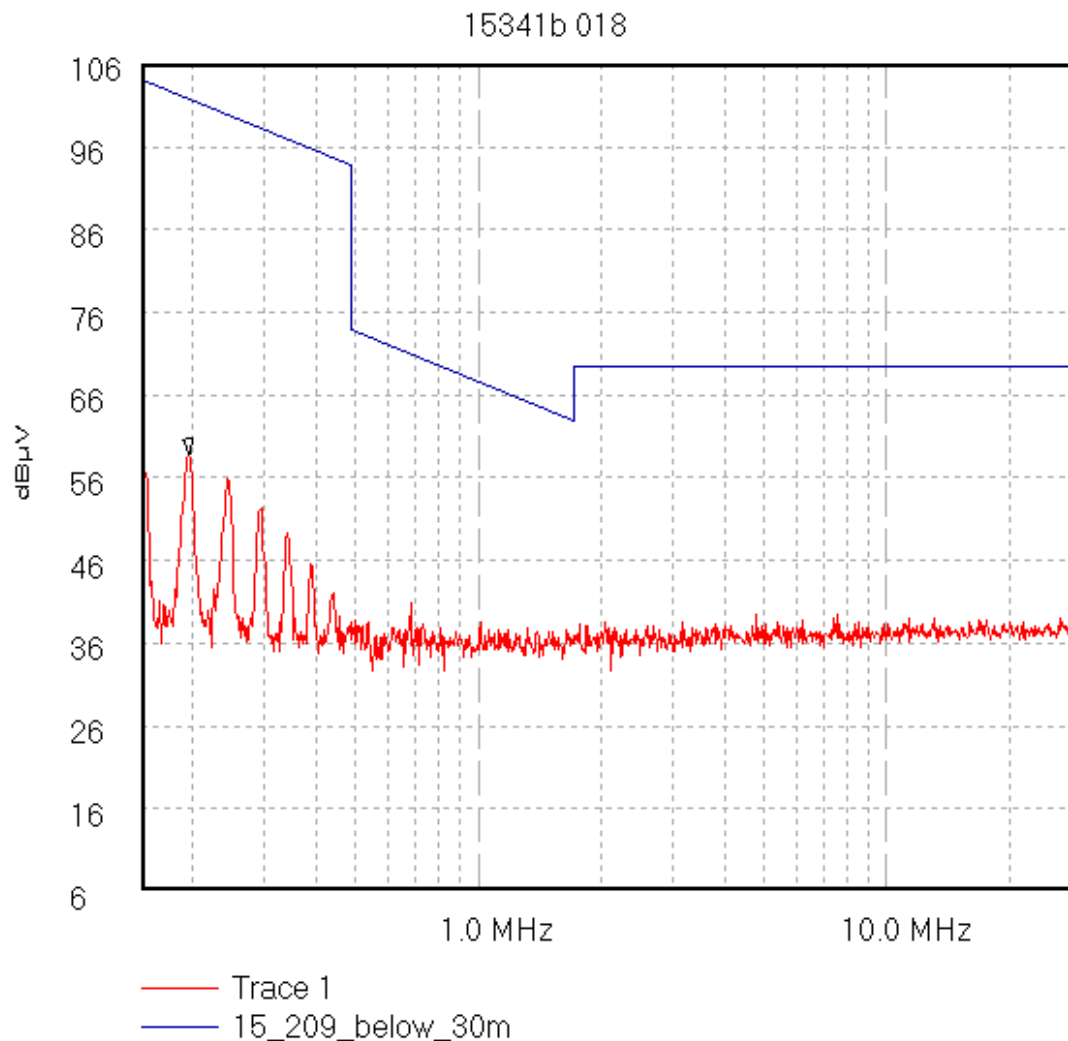


Start 9.0 kHz; Stop 150.0 kHz - Log Scale
Ref 110 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 200.0 Hz; VBW 300.0 Hz; Att 50 dB; Swp 18.0 S
Peak 48.376 kHz, 74.53 dBμV
Limit/Mask: rad_below_30; ; Limit Test Passed
14/02/2002 12:03:15

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\018

Radiated Emissions. FCC Part 15.209. PreScan @ 3m.
Test for Danger of HIPTOP PCS. Operating Condition: Channel 660 Tx High Power.



Start 150.0 kHz; Stop 30.0 MHz - Log Scale

Ref 106 dBμV; Ref Offset 0.0 dB; 10 dB/div

RBW 10.0 kHz; VBW 10.0 kHz; Att 20 dB; Swp 1.58 S

Peak 195.498 kHz, 58.87 dBμV

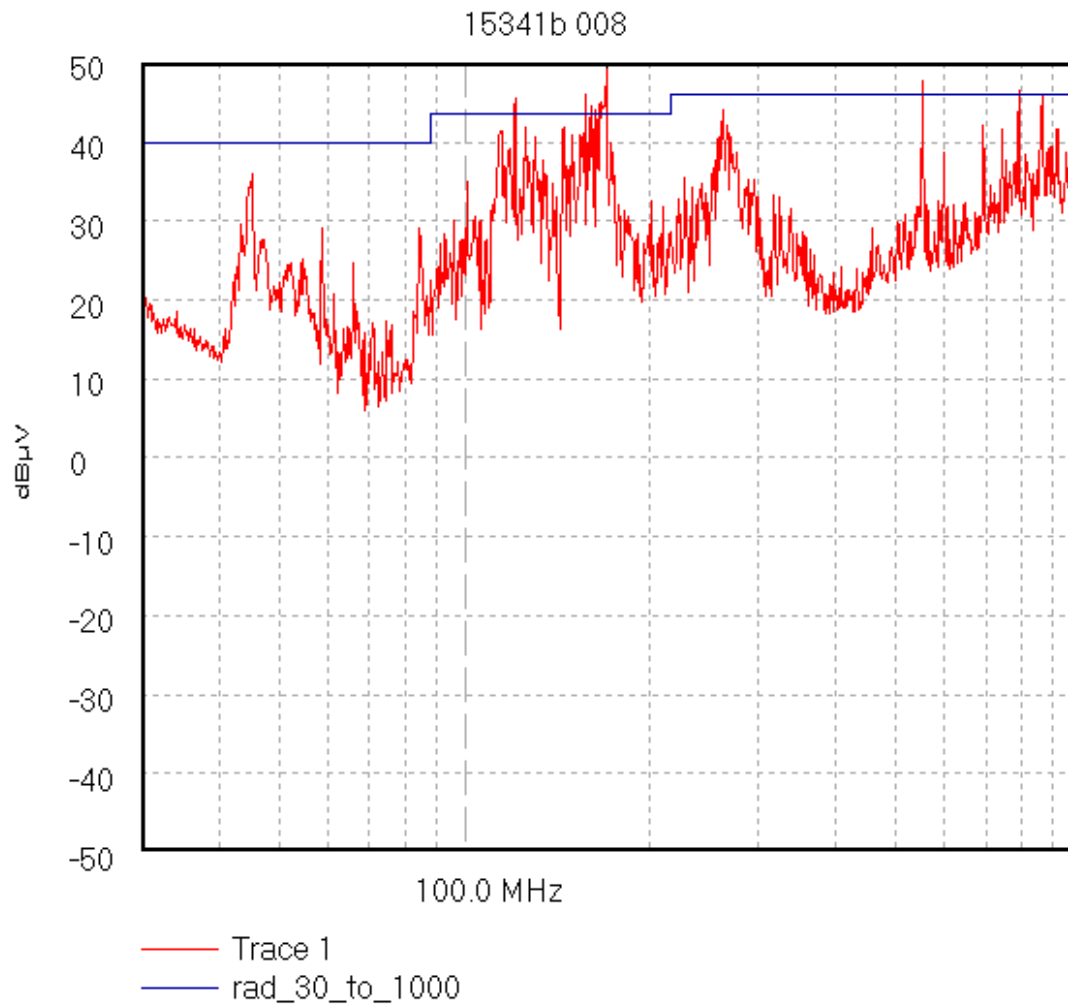
Limit/Mask: 15_209_below_30m; ; Limit Test Passed

14/02/2002 12:11:33

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\008

FCC Part 15. 15.209.
Test for Danger of HIPTOP PCS Phone.
Operating Condition: Channel 660 Tx High Power.

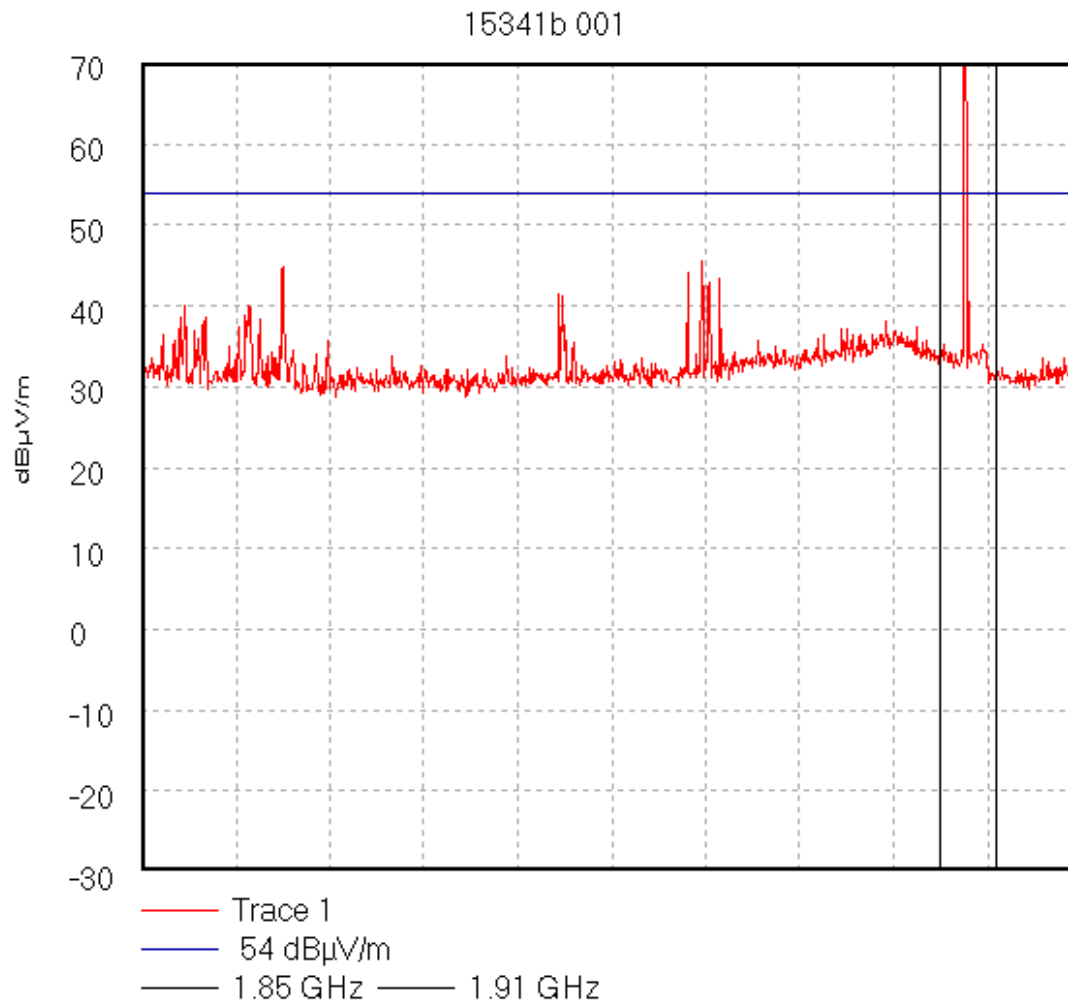


Start 30.0 MHz; Stop 1.0 GHz - Log Scale
Ref 50 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 120.0 kHz; VBW 100.0 kHz; Att 0 dB; Swp 380.0 mS
Peak 169.864 MHz, 49.45 dBμV
Limit/Mask: rad_30_to_1000; ; Limit Test Failed
Transducer Factors: A490
14/02/2002 10:23:29

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\001

FCC Part 15. 15.209.
Test for Danger of HIPTOP PCS phone.
Operating Condition: Channel 660 Tx High power.



Start 1.0 GHz; Stop 2.0 GHz

Ref 70 dB μ V/m; Ref Offset -10.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 1.877 GHz, 73.98 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Failed

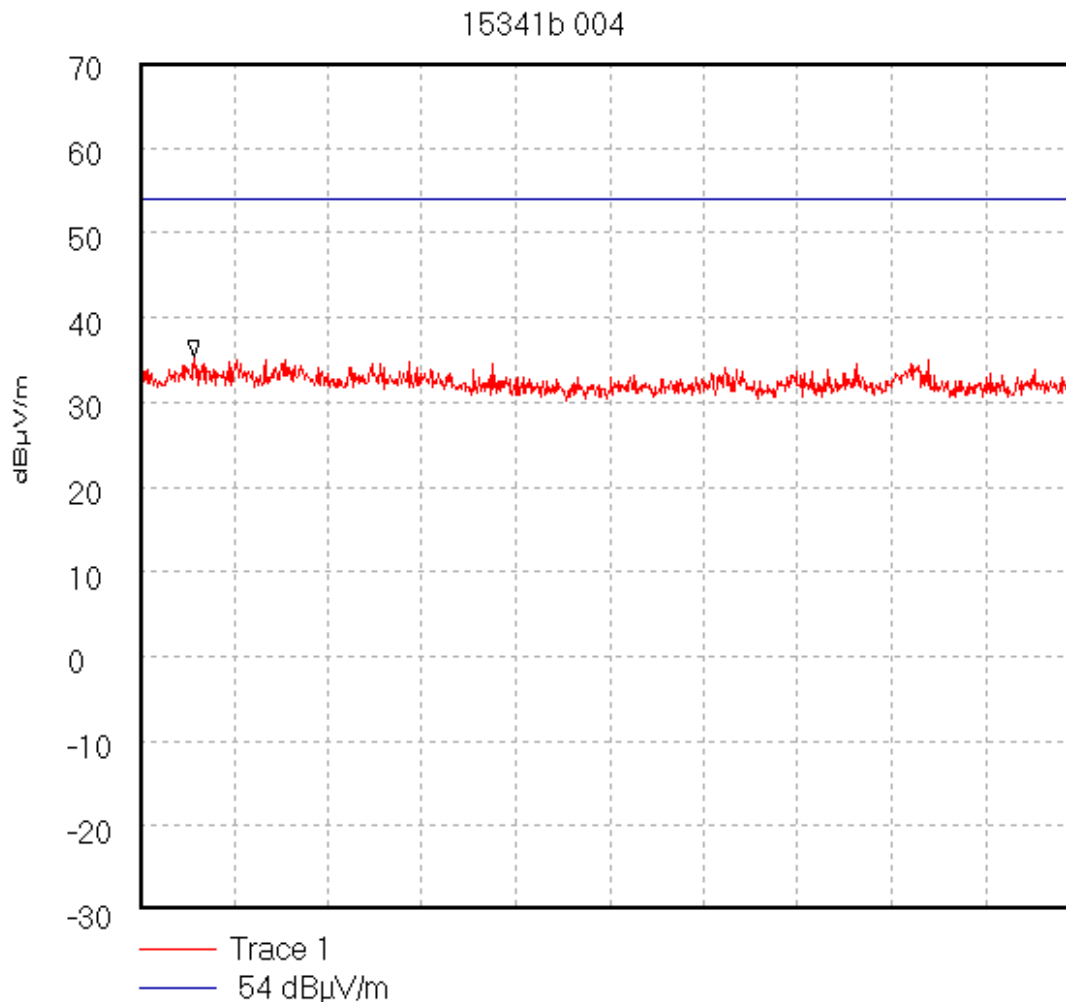
Transducer Factors: 1 to 2

14/02/2002 09:45:51

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\004

FCC Part 15. 15.209
Test for Danger of HIPTOP PCS phone.
Operating Condition: Channel 660 Tx High power.



Start 2.0 GHz; Stop 4.0 GHz

Ref 70 dB μ V/m; Ref Offset -10.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 2.116 GHz, 35.32 dB μ V/mDisplay Line: 54 dB μ V/m; ; Limit Test Passed

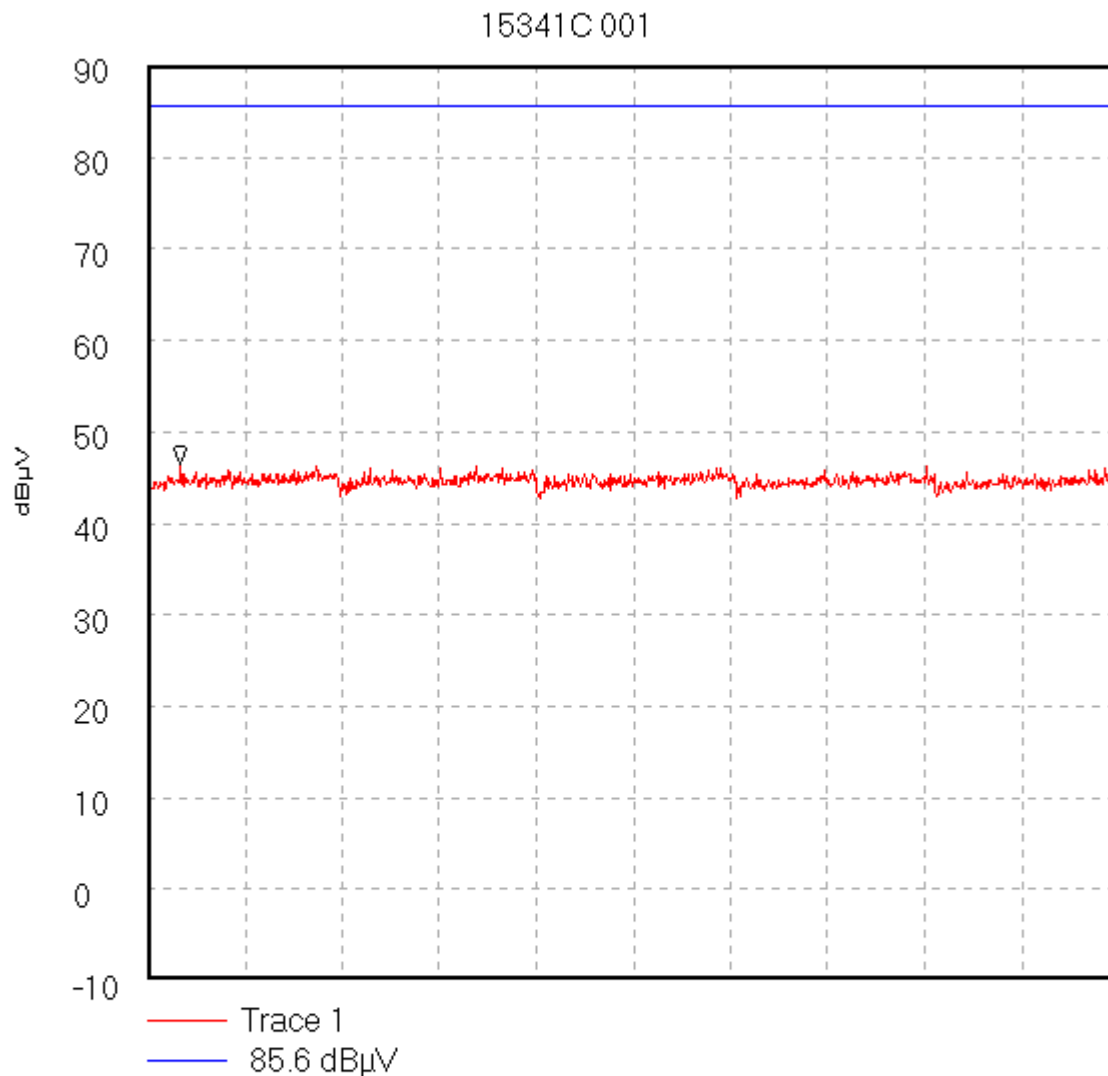
Transducer Factors: 2 to 4

14/02/2002 10:04:16

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\001

**Radiated Spurious Emissions.
Test for Danger of HIPTOP PCS Phone.
Operating Condition: Channel 660 Tx High Power.**



Start 4.0 GHz; Stop 5.0 GHz

Ref 90 dB μ V; Ref Offset 24.9 dB; 10 dB/div

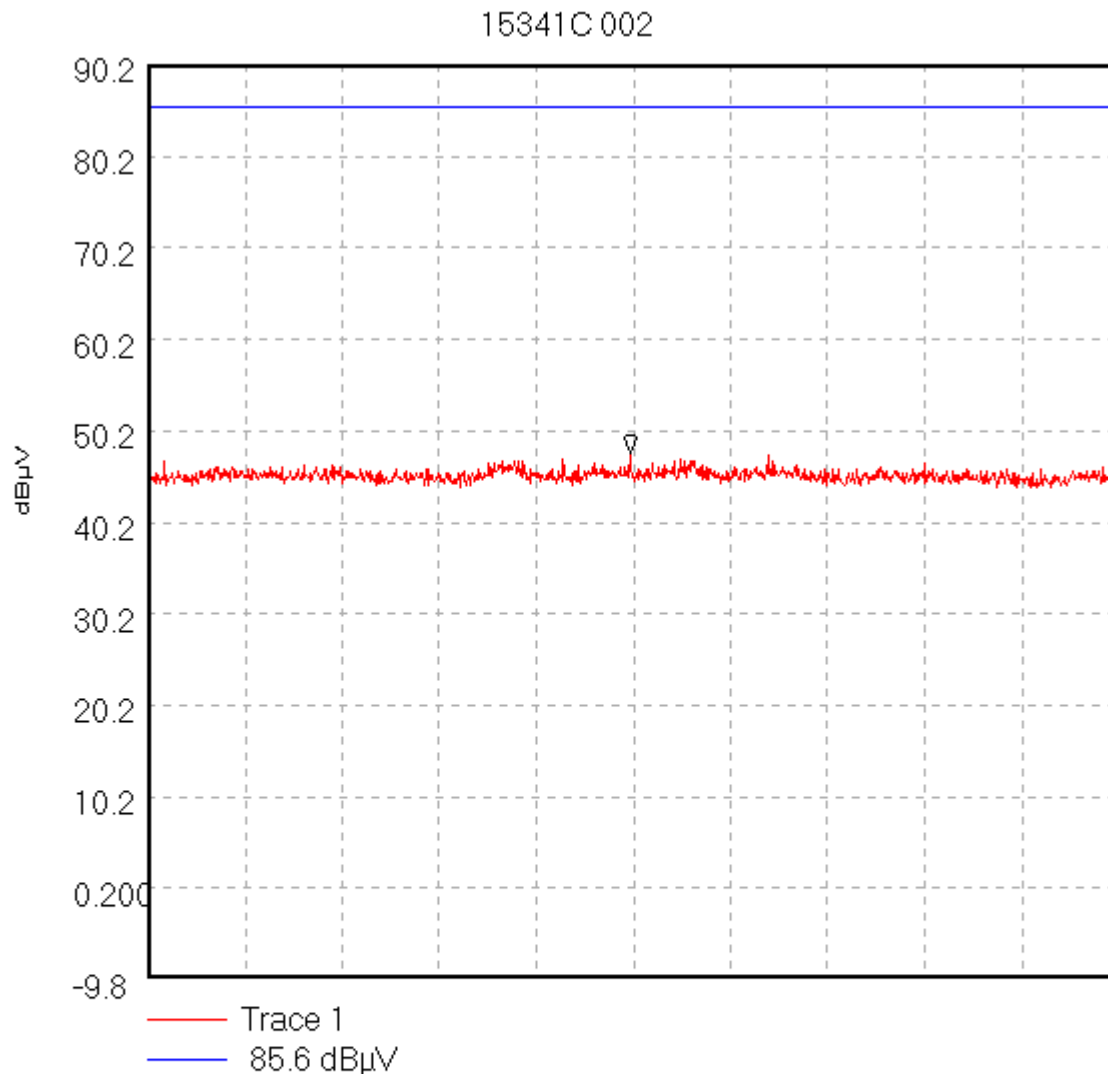
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 4.033 GHz, 46.38 dB μ VDisplay Line: 85.6 dB μ V; ; Limit Test Passed

15/02/02 13:53:53

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\002

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle Mode.**

Start 5.0 GHz; Stop 6.0 GHz

Ref 90.2 dBμV; Ref Offset 25.1 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

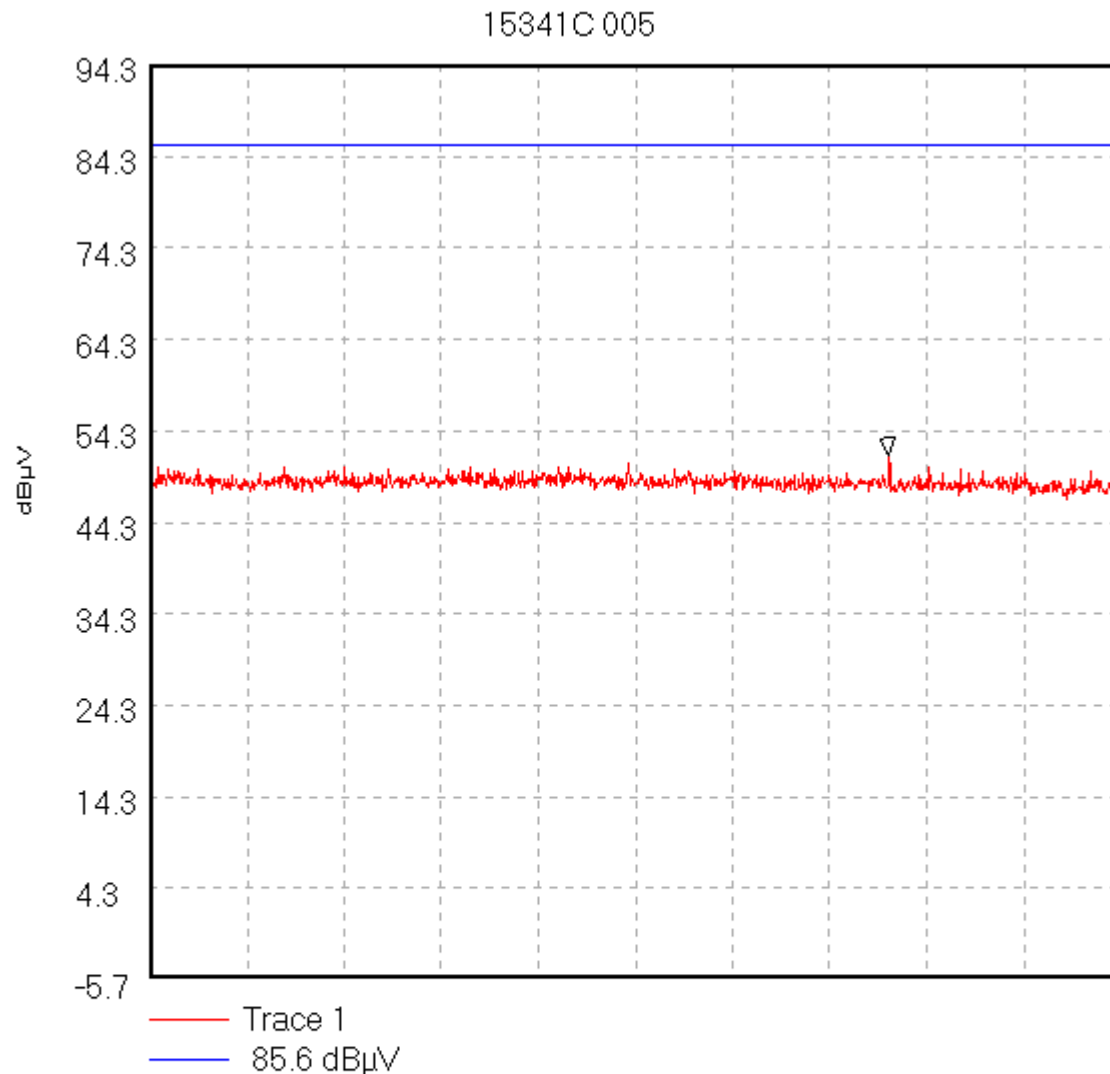
Peak 5.497 GHz, 47.75 dBμV

Display Line: 85.6 dBμV; ; Limit Test Passed

15/02/02 13:56:19

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\005

Radiated Spurious Emissions.**Test for Danger of HIPTOP PCS Phone. Operating Condition: Idle mode.**

Start 6.0 GHz; Stop 8.0 GHz

Ref 94.3 dBμV; Ref Offset 29.2 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS

Peak 7.524 GHz, 51.54 dBμV

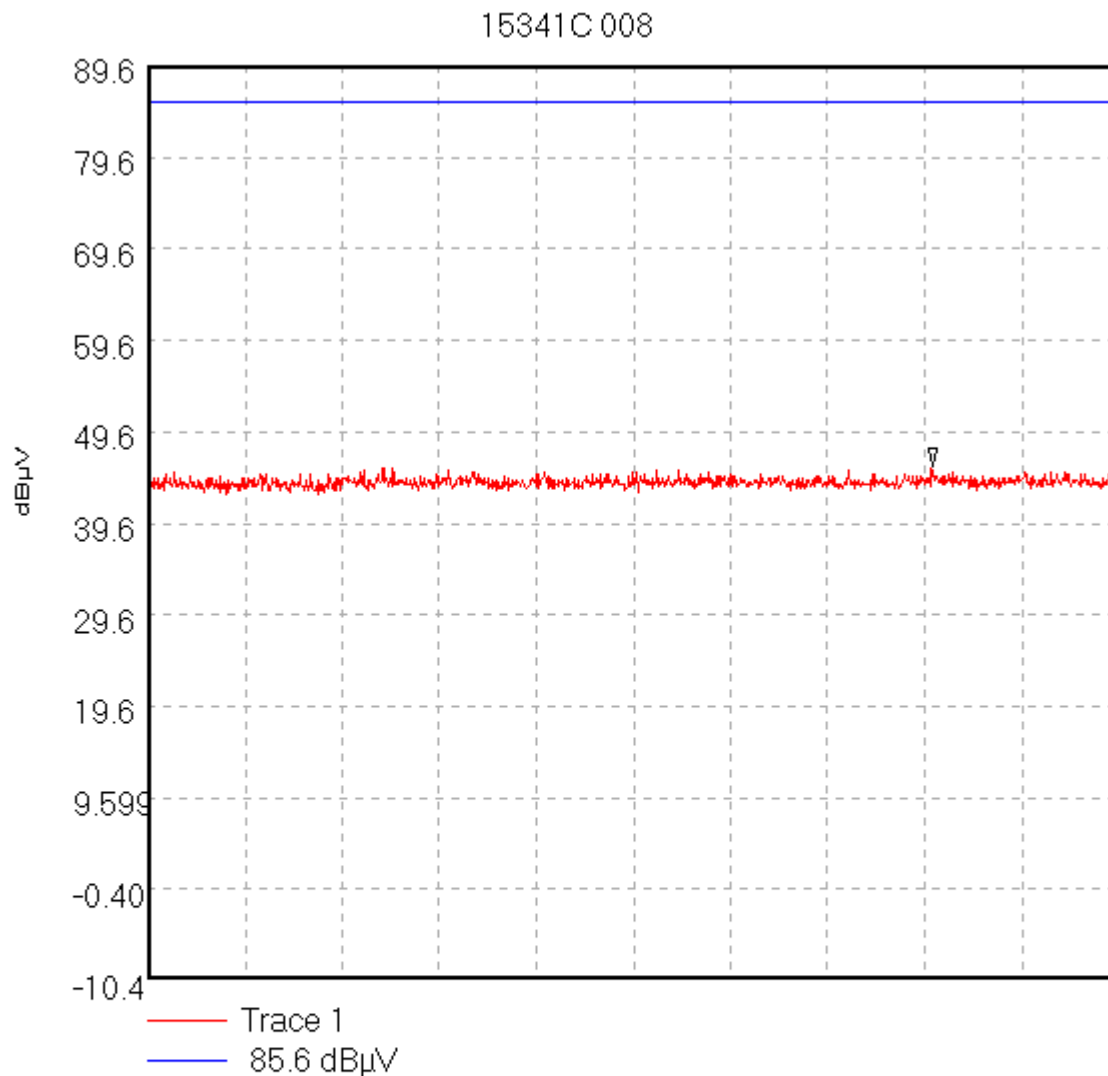
Display Line: 85.6 dBμV; ; Limit Test Passed

15/02/02 14:13:16

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\008

Radiated Spurious Emissions.
Test for Danger of HIPTOP PCS Phone.
Operating Condition: Channel 660 Tx High Power. at 1m.



Start 8.0 GHz; Stop 12.5 GHz

Ref 89.6 dB μ V; Ref Offset 24.5 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

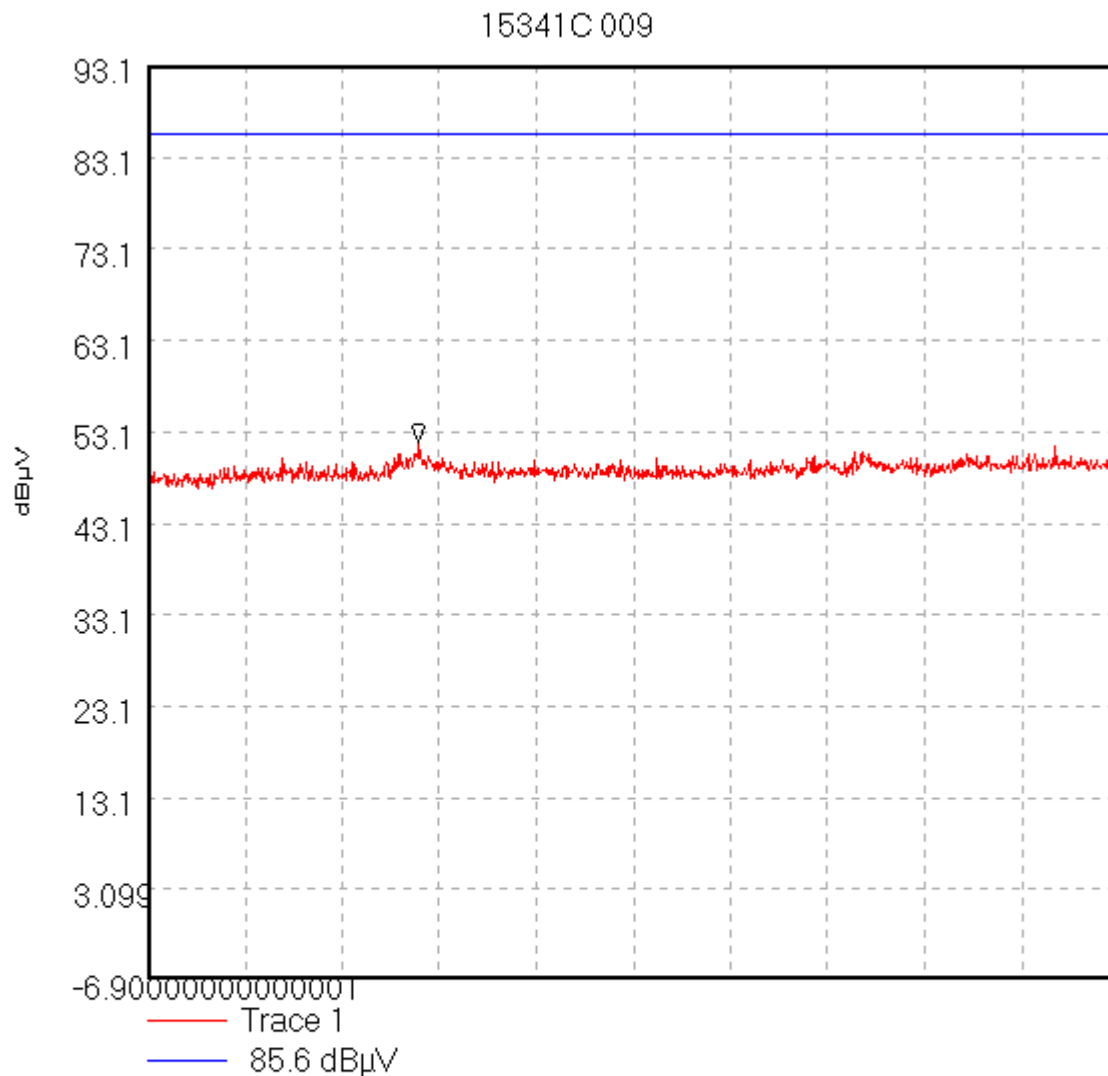
Peak 11.635 GHz, 45.72 dB μ VDisplay Line: 85.6 dB μ V; ; Limit Test Passed

15/02/02 14:25:58

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\009

Radiated Spurious Emissions.
Test for Danger of HIPTOP PCS Phone.
Operating Condition: Channel 660 Tx High Power. at 1m.



Start 12.5 GHz; Stop 18.0 GHz

Ref 93.1 dBμV; Ref Offset 28.0 dB; 10 dB/div

RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 40.0 mS

Peak 14.034 GHz, 51.94 dBμV

Display Line: 85.6 dBμV; ; Limit Test Passed

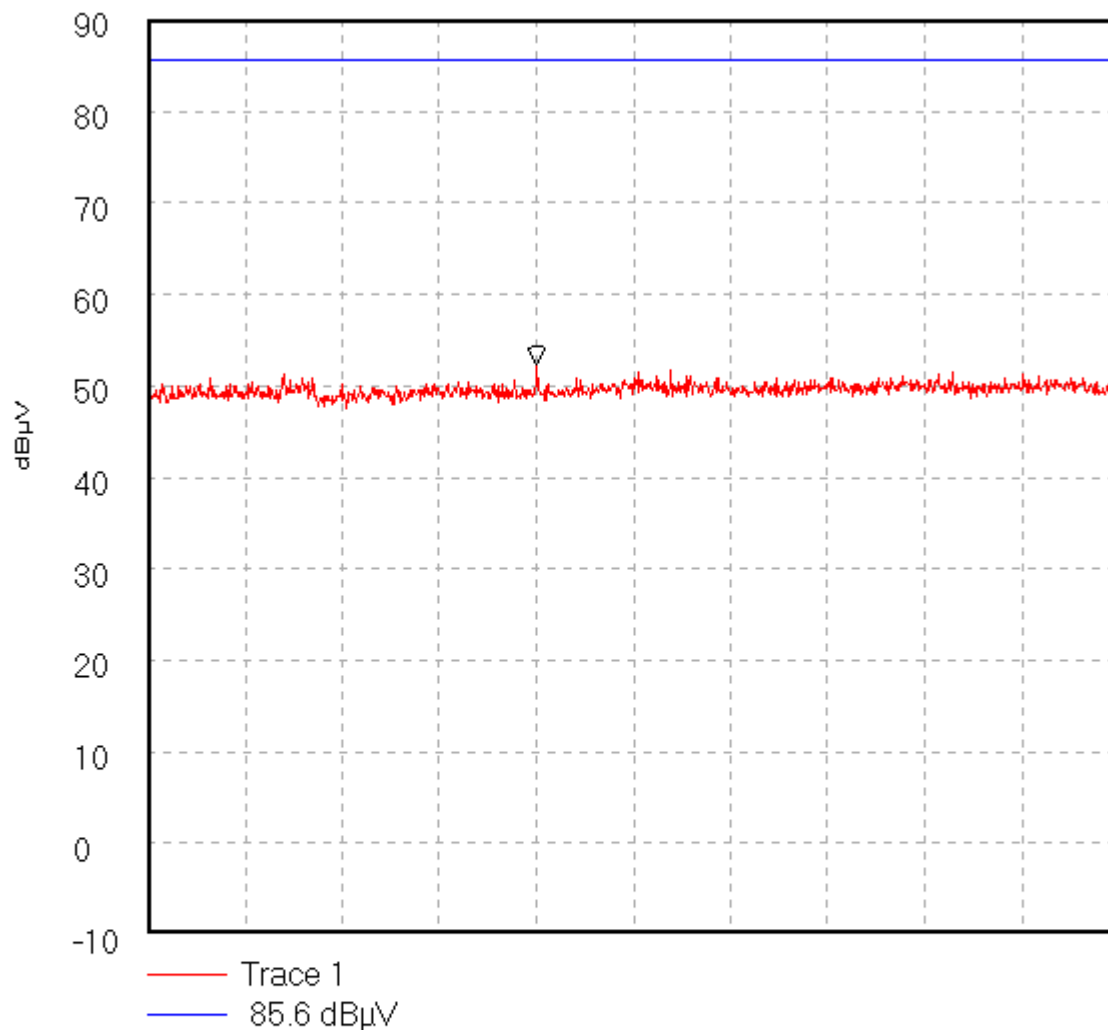
15/02/02 14:36:15

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341C\012

Radiated Spurious Emissions.
Test for Danger of HIPTOP PCS Phone.
Operating Condition: Channel 660 Tx High power. at 1m.

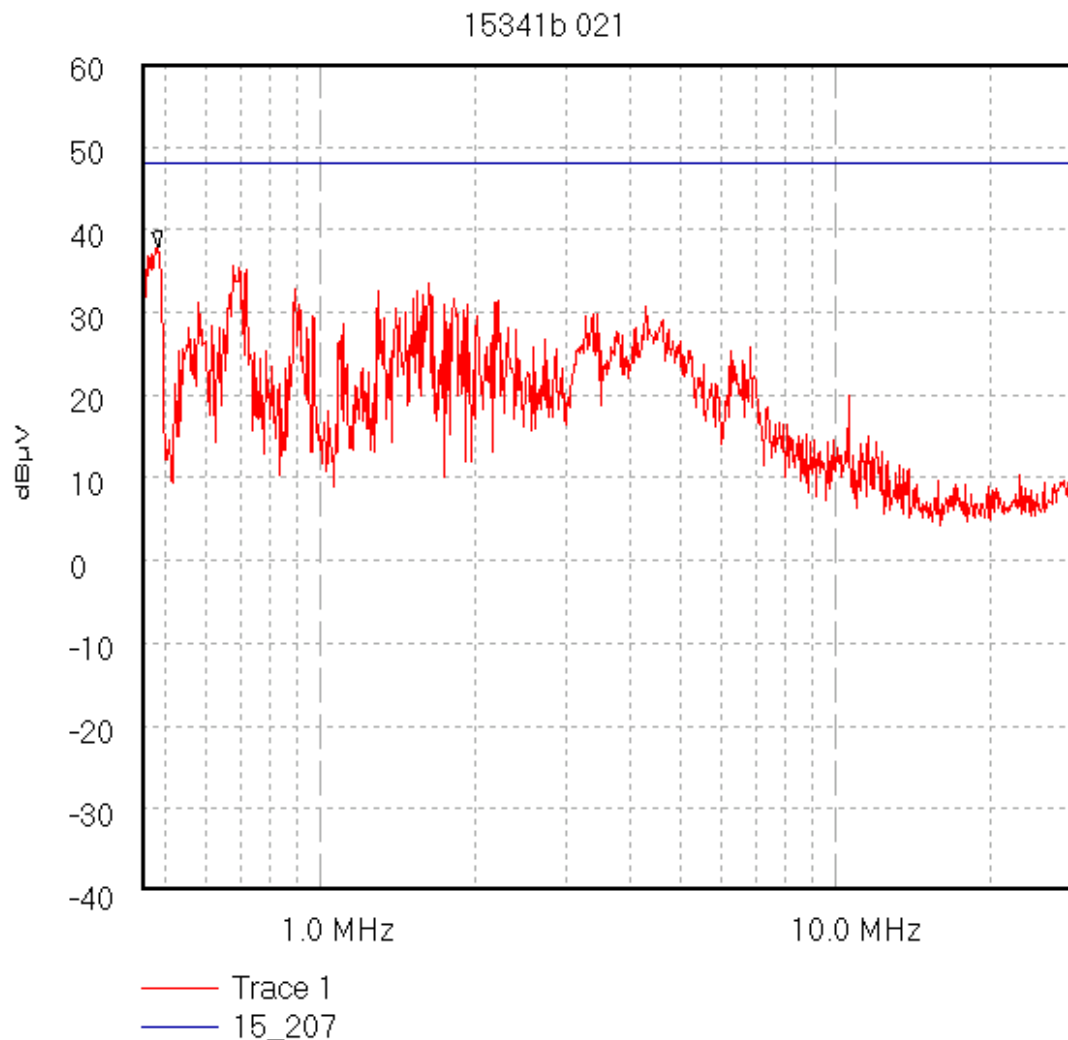
15341C 012



Start 18.0 GHz; Stop 20.0 GHz
Ref 90 dBμV; Ref Offset 30.2 dB; 10 dB/div
RBW 1000.0 kHz; VBW 1.0 MHz; Att 0 dB; Swp 20.0 mS
Peak 18.802 GHz, 52.4 dBμV
Display Line: 85.6 dBμV; ; Limit Test Passed
15/02/02 14:53:11

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\021

Conducted Emissions. FCC Part 15.207.**Test for Danger of HIPTOP PCS. Operating Condition: Channel 660 Tx High Power.**

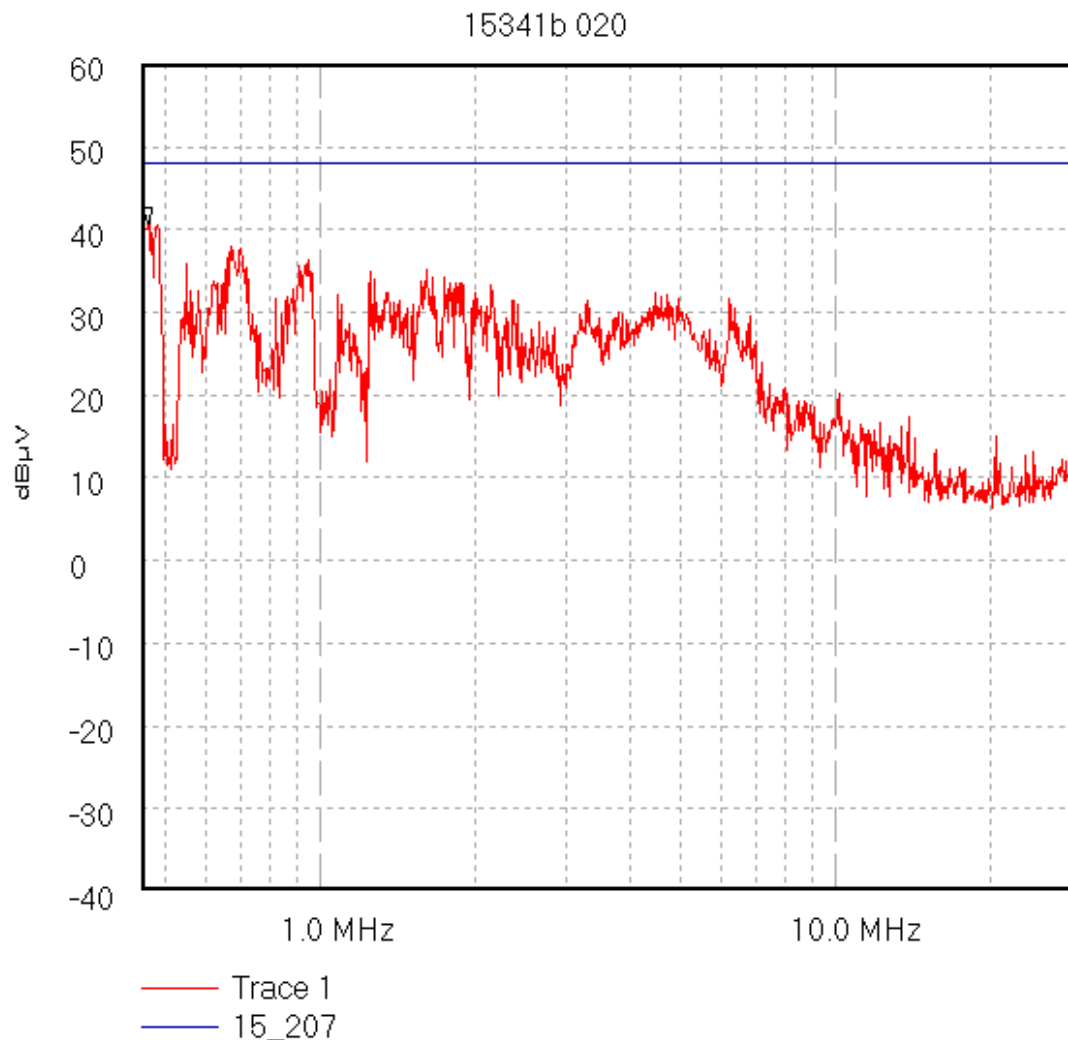
Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 0 dB; Swp 2.2 S
Peak 482.626 kHz, 37.89 dBμV
Limit/Mask: 15_207; ; Limit Test Passed
14/02/2002 12:42:55

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\020

Conducted Emissions. FCC Part 15.207.

Test for Danger of HIPTOP PCS. Operating Condition: Channel 660 Tx High Power.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale

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

RBW 9.0 kHz; VBW 10.0 kHz; Att 0 dB; Swp 260.0 mS

Peak 464.941 kHz, 40.73 dBμV

Limit/Mask: 15_207; ; Limit Test Passed

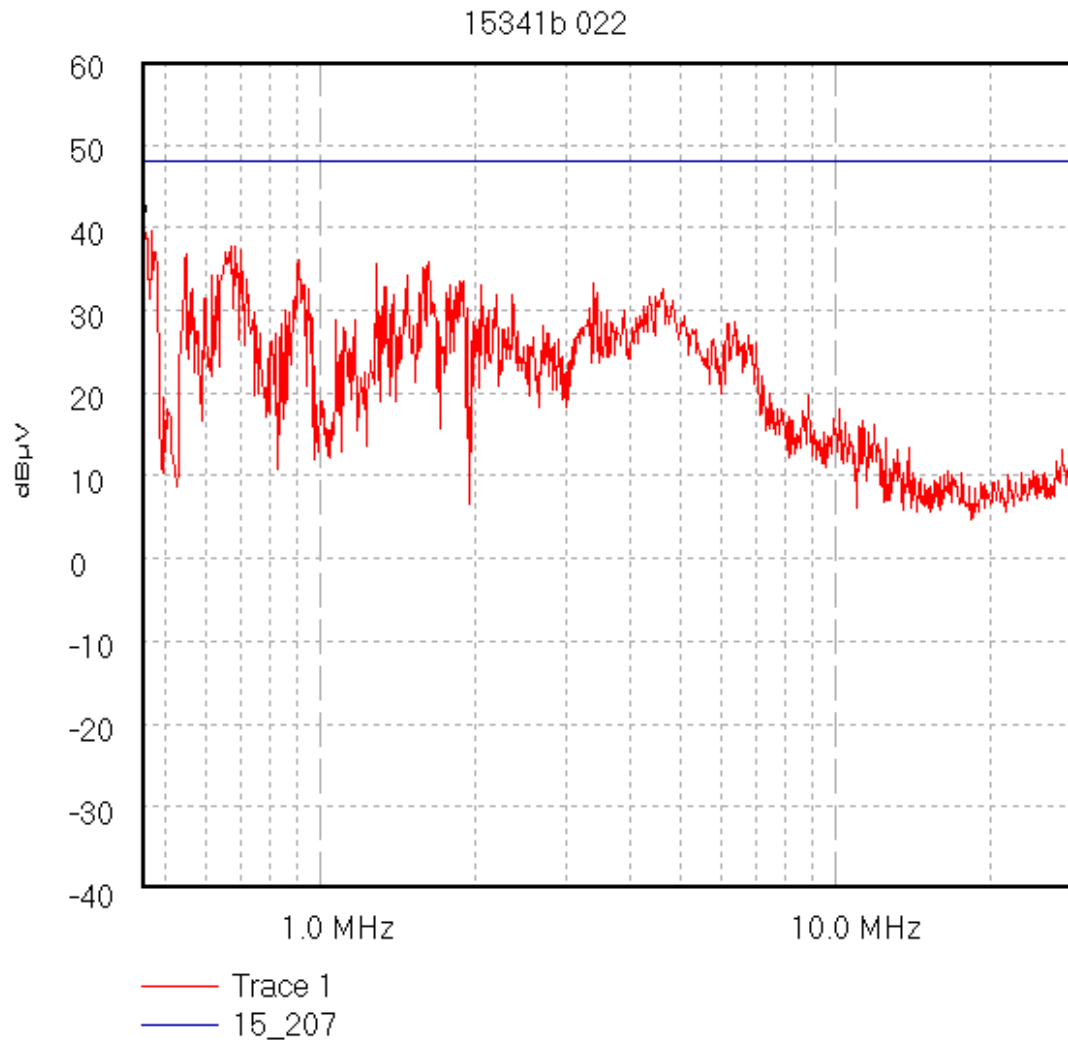
14/02/2002 12:41:02

Test Of: Danger Inc.
Hiptop GSM 1900 Mobile Phone
To: FCC Part 24: 2001 (Sections: 24.232, 24.235, 24.238)
and FCC Part 15: 2001 (Sections: 15.107 and 15.109)

GPH\15341b\022

Conducted Emissions. FCC Part 15.207.

Test for Danger of HIPTOP PCS. Operating Condition: Channel 810 Tx High Power.



Start 450.0 kHz; Stop 30.0 MHz - Log Scale
Ref 60 dBμV; Ref Offset 0.0 dB; 10 dB/div
RBW 9.0 kHz; VBW 10.0 kHz; Att 0 dB; Swp 2.2 S
Peak 450.0 kHz, 40.63 dBμV
Limit/Mask: 15_207; ; Limit Test Passed
14/02/2002 12:45:05