

Nemko Test Report: 3L0478RUS2

Applicant: Hop-On Wireless

Equipment Under Test: Dual Band Tri-mode CDMA Cellular Phone
(E.U.T.)

FCC ID: QHOHPN1900

In Accordance With: FCC Part 24, Subpart E
Broadband PCS Subscriber Station

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, TX
75057-3136

A handwritten signature in blue ink that reads "Tom Tidwell". The signature is fluid and cursive, with "Tom" on the top line and "Tidwell" on the bottom line.

Authorized By:

Tom Tidwell, Frontline Manager

Date: 2/18/04

Table of Contents

Section 1.	Summary of Test Results	3
Section 2.	General Equipment Specification.....	5
Section 3.	RF Power Output	7
Section 4.	Occupied Bandwidth	8
Section 5.	Spurious Emissions at Antenna Terminals	12
Section 6.	Field Strength of Spurious	21
Section 7.	Frequency Stability	26
Section 8.	Test Equipment List	28
ANNEX A - TEST METHODOLOGIES		29
ANNEX B - TEST DIAGRAMS.....		35

Section 1. Summary of Test Results

Manufacturer: Hop-On Wireless

Model No.: HPN1900

Serial No.: 065-190000009

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 24, Subpart E.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See "Summary of Test Data".

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This report applies only to the items tested.

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FCC PART 24, SUBPART E

BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
RF Power Output	24.232	Complies
Occupied Bandwidth	24.238	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	Complies
Field Strength of Spurious Emissions	24.238(a)	Complies
Frequency Stability	24.235	Complies

Footnotes:

Section 2. General Equipment Specification

Supply Voltage Input:	3.7 V Lithium-ion		
Frequency Bands:	<input checked="" type="checkbox"/> Block A - 1851.25 – 1908.75 MHz F:		
	CDMA (1M25F9W) <input checked="" type="checkbox"/>	GSM (GXW) <input type="checkbox"/>	NADC (DXW) <input type="checkbox"/>
Necessary Bandwidth:	1.25MHz		
Output Impedance:	50 ohms		
RF Output (conducted):	22.1 dBm		
RF Output (e.i.r.p.):	21.6 dBm	(145 mW)	
Internal Antenna Gain:	-0.5 dBi		

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FCC PART 24, SUBPART E

BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

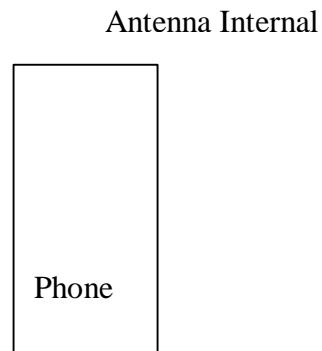
FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

System Description

The device is a wireless telephone operating in the 800 MHz cellular and 1900 MHz PCS band

System Diagram



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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: Dustin Oaks	DATE: 12/04/2003

Test Results: Complies.

Measurement Data:

Frequency	Output Power (dBm)	Output Power (W)	EIRP (dBm)	EIRP (W)
1851	22.1	0.162	21.6	0.1445
1880	22.1	0.162	21.6	0.1445
1908	22.1	0.162	21.6	0.1445

Antenna gain = -0.5dBi

Measurement Uncertainty: +/- 0.6 dB

Temperature: 21 °C

Relative Humidity: 51 %

Equipment Used: 1036, 1627, 1474

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BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1047
TESTED BY: Dustin Oaks	DATE: 12/4/2003

Test Results: Complies.

Test Data: See attached plots.

Measurement Uncertainty: +/- 1.7 dB

Temperature: 21 °C

Relative Humidity: 51 %

Equipment Used: 1036, 1627, 1474

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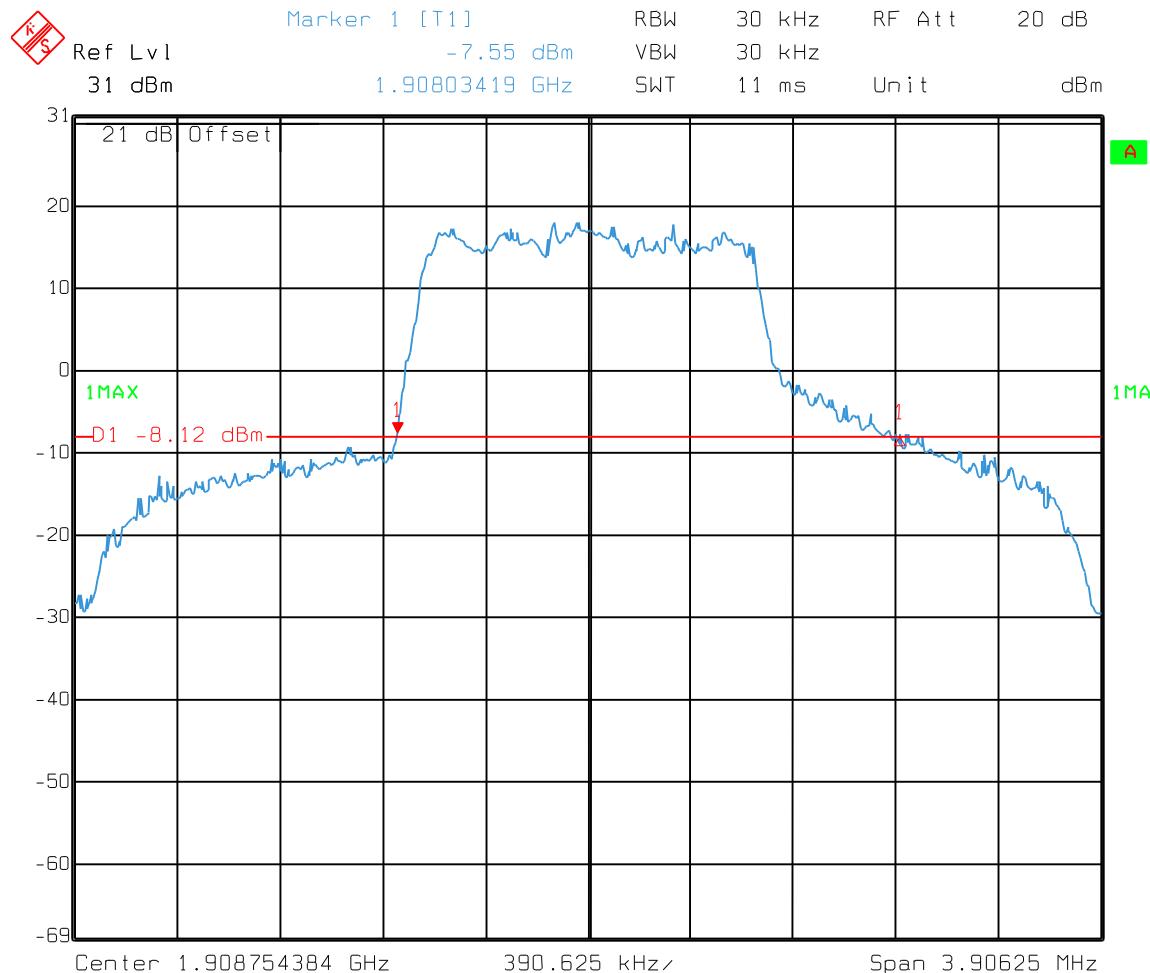
FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

PCS: 1908MHz



Date: 04.DEC.2003 11:51:17

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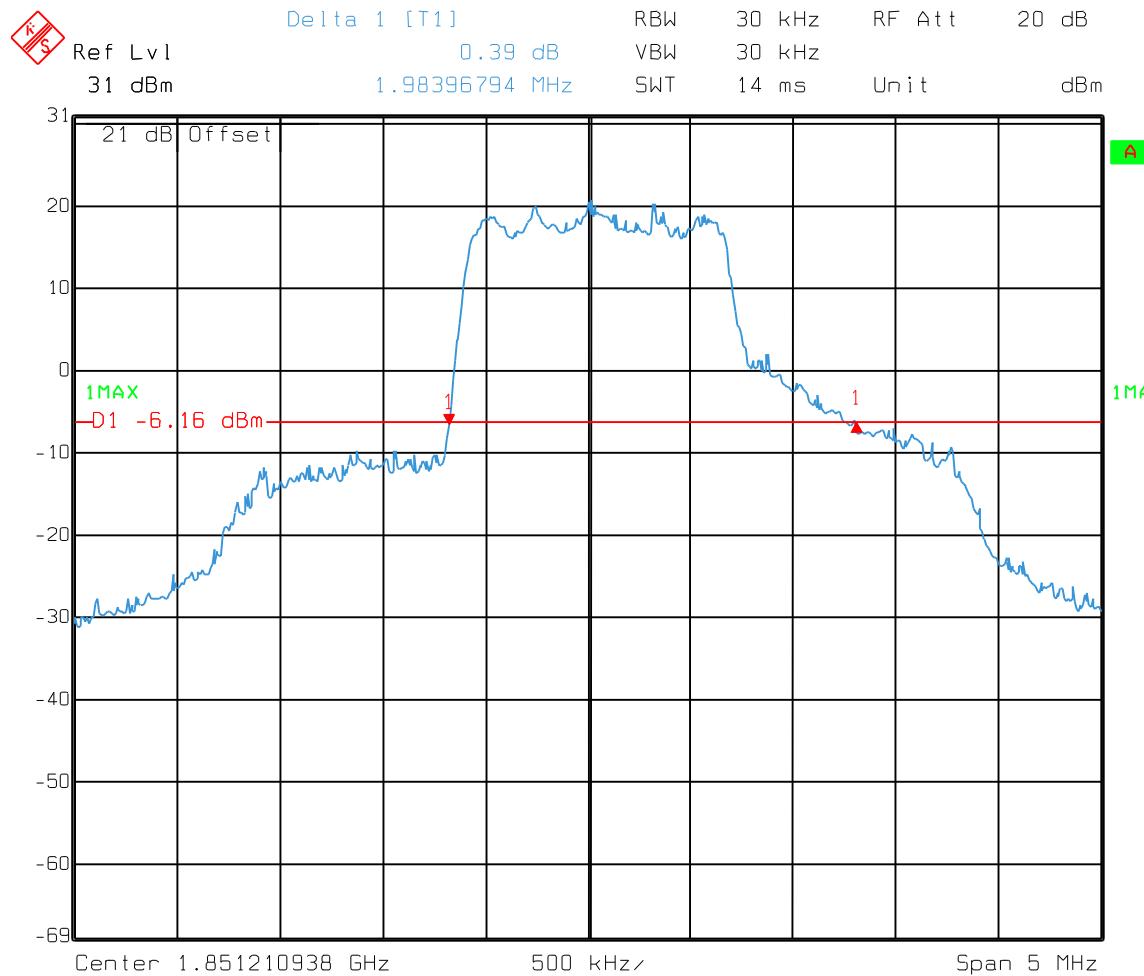
FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

PCS: 1851MHz



Date: 04.DEC.2003 11:59:57

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

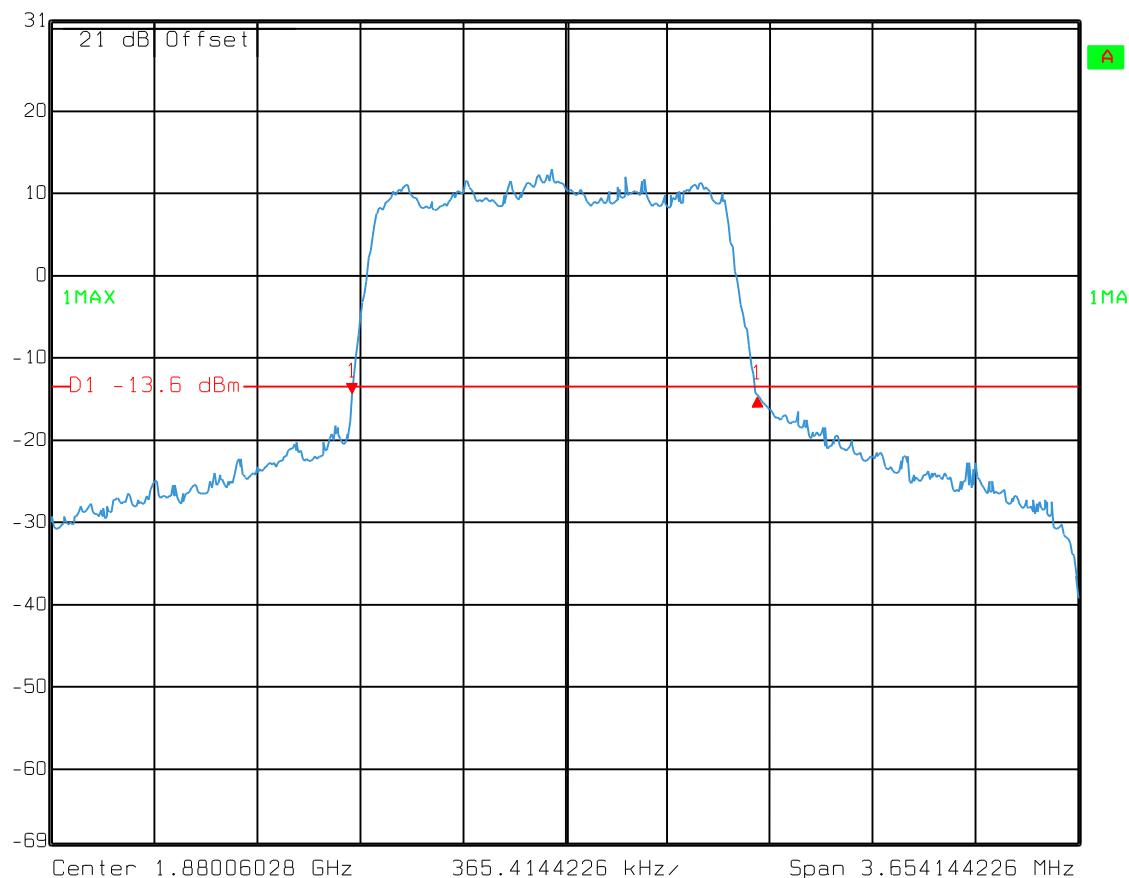
PCS 1880



Ref Lvl
31 dBm

Delta 1 [T1]
-0.32 dB
1.44261806 MHz

RBW 30 kHz
VBW 30 kHz
SWT 10.5 ms
RF Att Unit
20 dB
dBm



Date: 04.DEC.2003 12:24:06

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FCC PART 24, SUBPART E

BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: Dustin Oaks	DATE: 12/04/2003

Test Results: Complies.

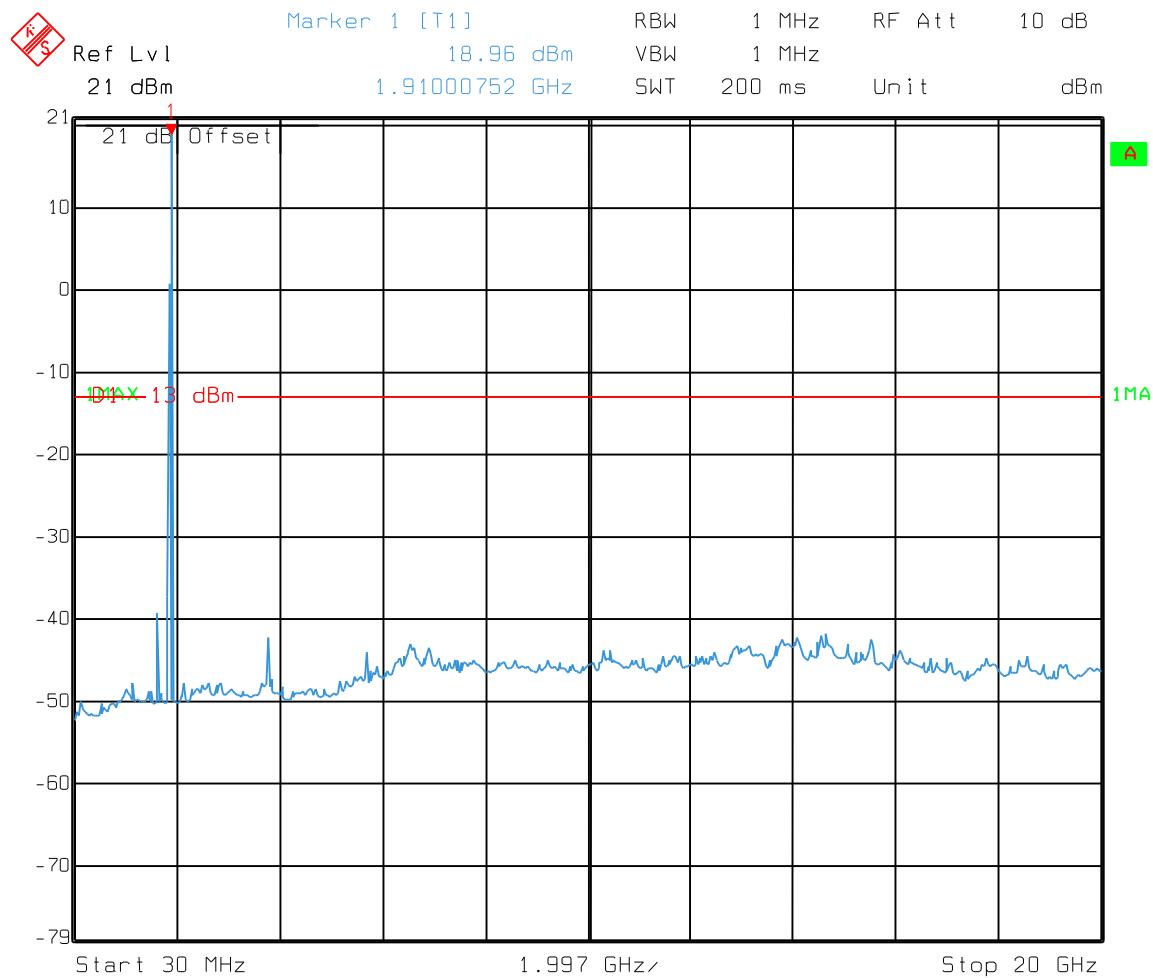
Test Data: See attached plots.

Measurement Uncertainty: +/- 1.7 dB

Temperature: 21 °C

Relative Humidity: 51 %

Equipment Used: 1036, 1627, 1474

PCS: Channel 1908MHz

Date: 04.DEC.2003 14:06:33

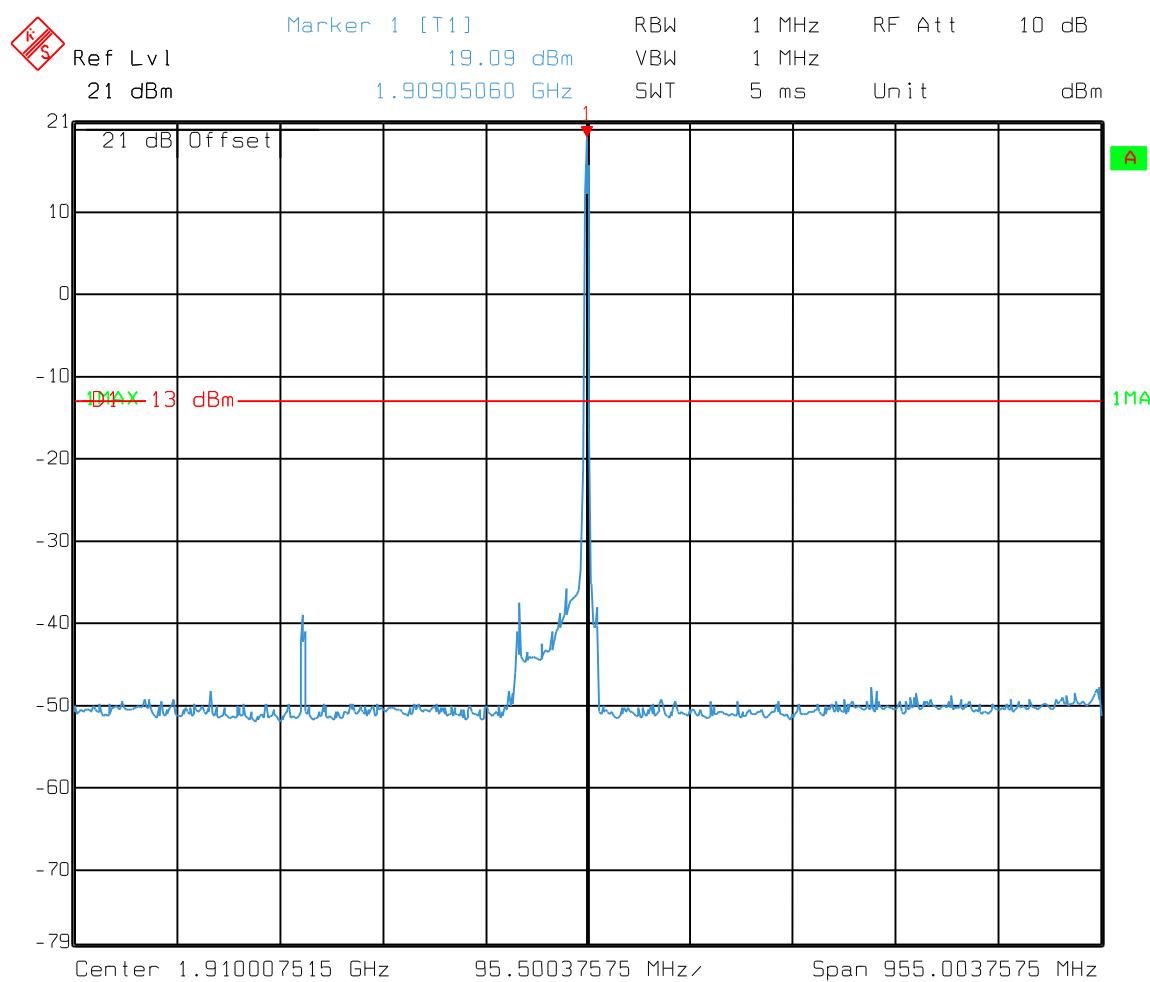
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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2



Date: 04.DEC.2003 14:07:43

Nemko USA, Dallas Facility

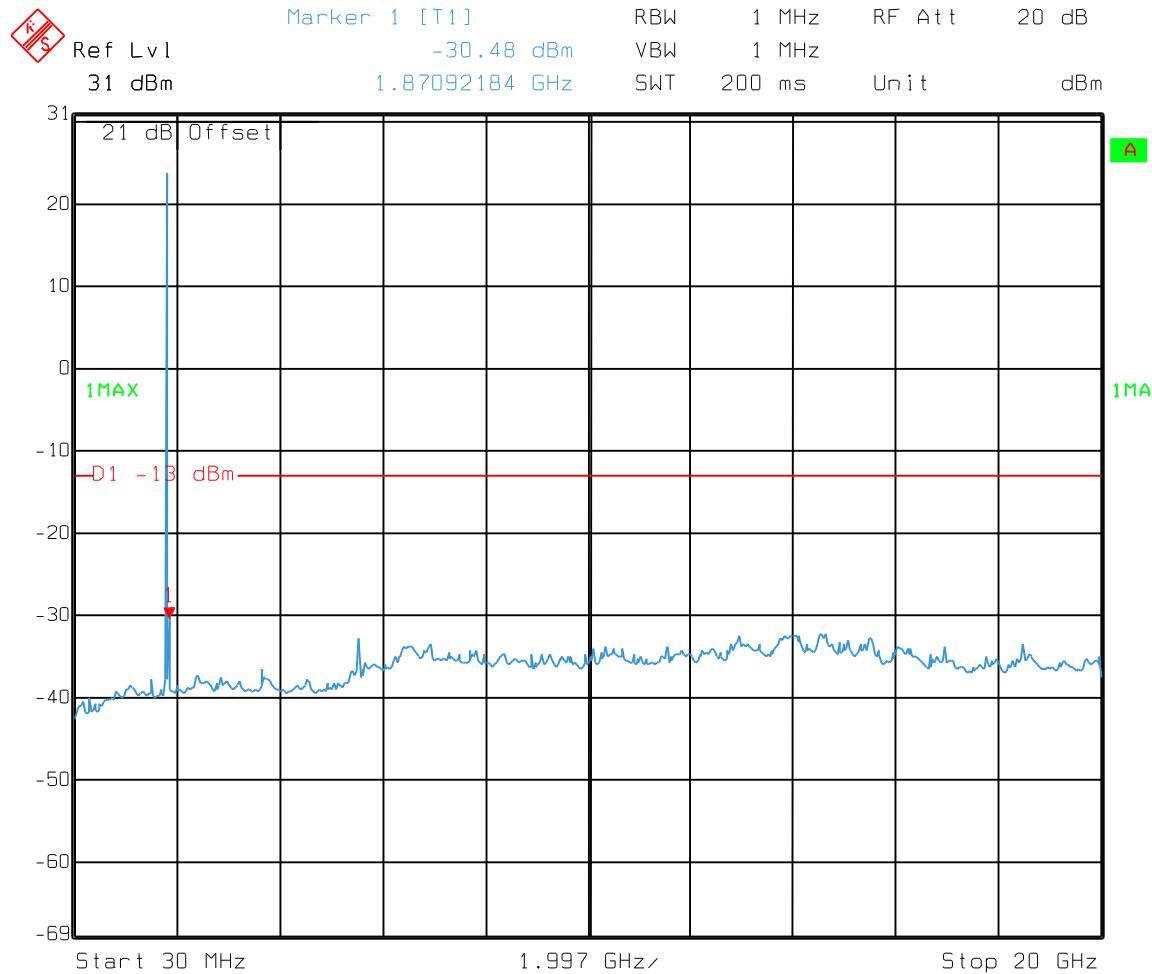
FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

PCS: 1851MHz



Date: 04.DEC.2003 12:08:51

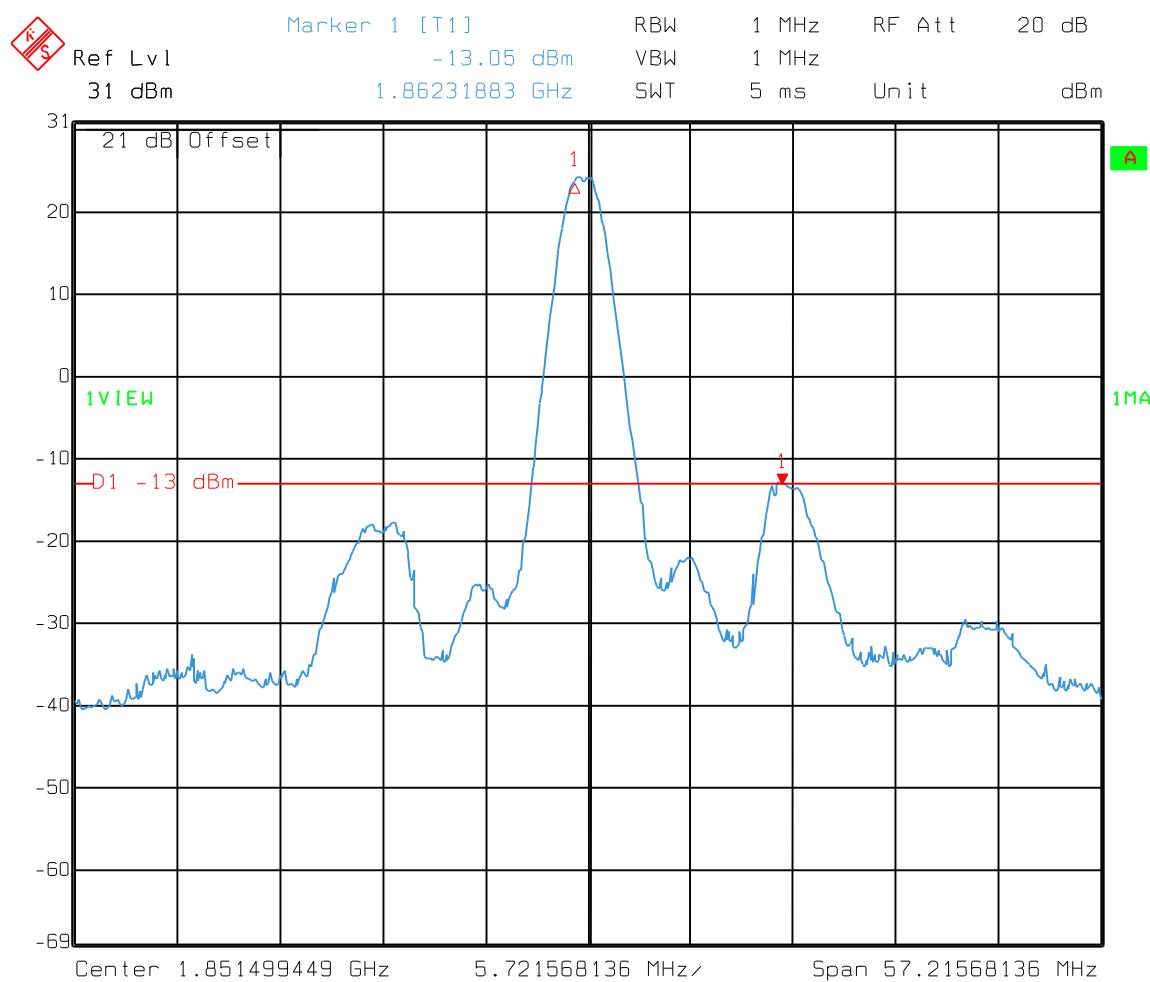
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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2



Date: 04.DEC.2003 12:07:25

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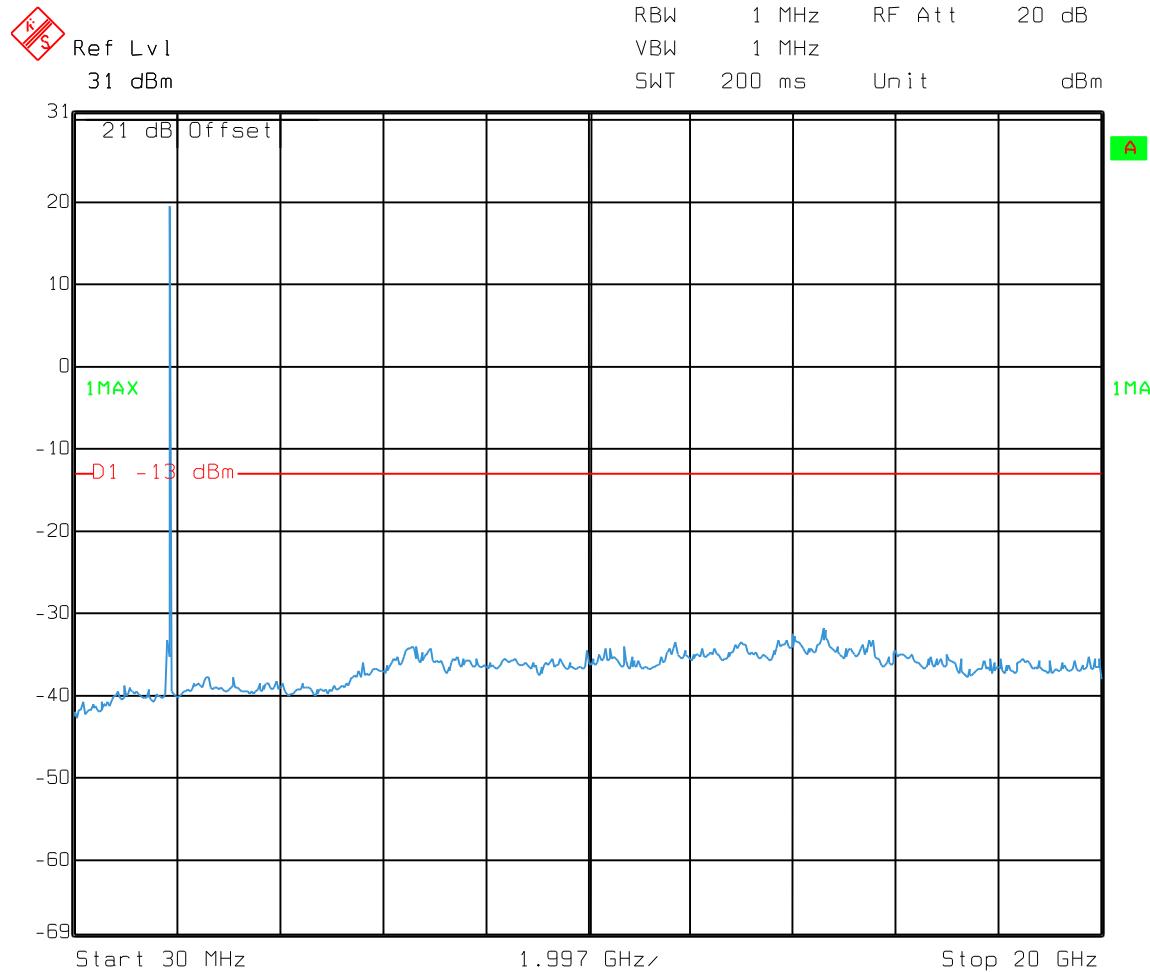
FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

PCS: 1880MHz



Date: 04.DEC.2003 12:21:35

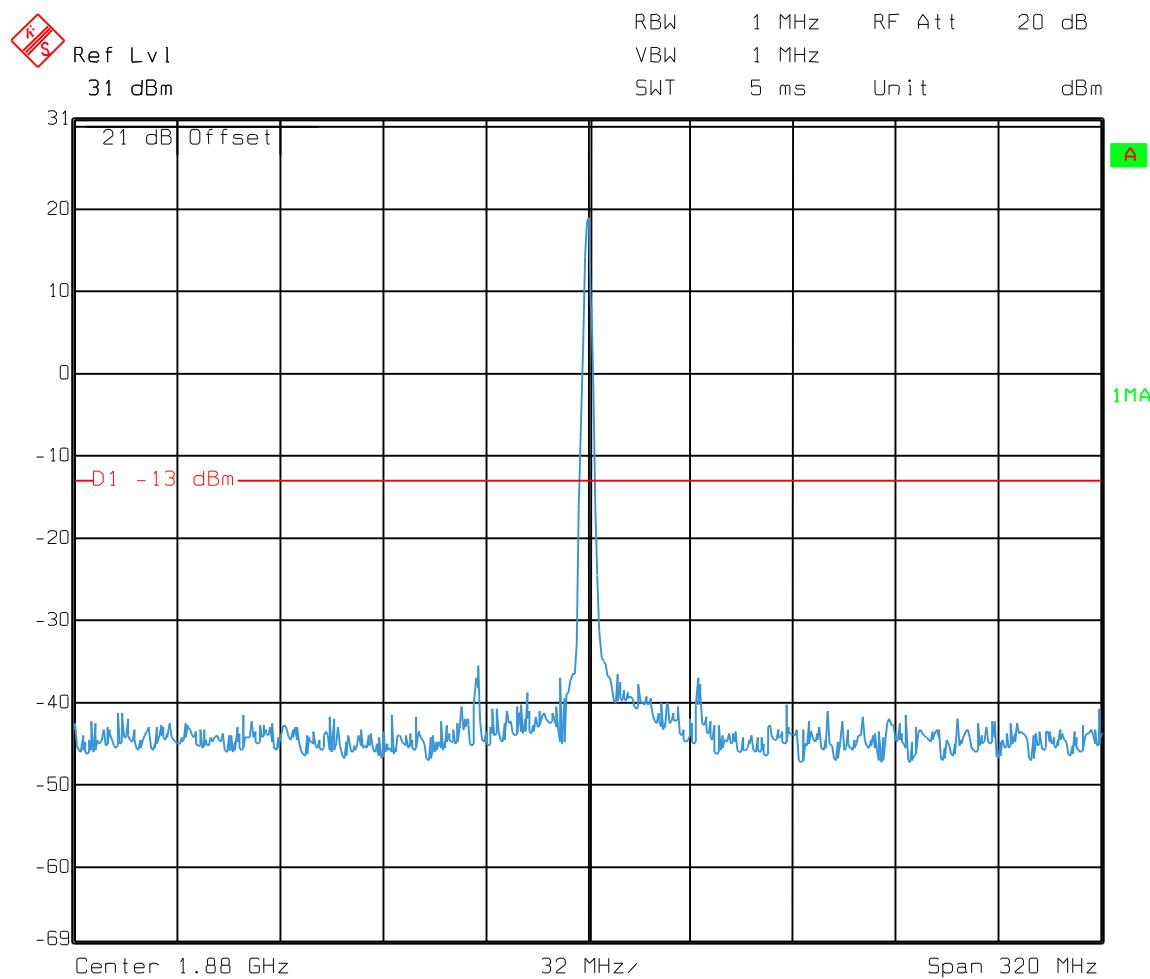
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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

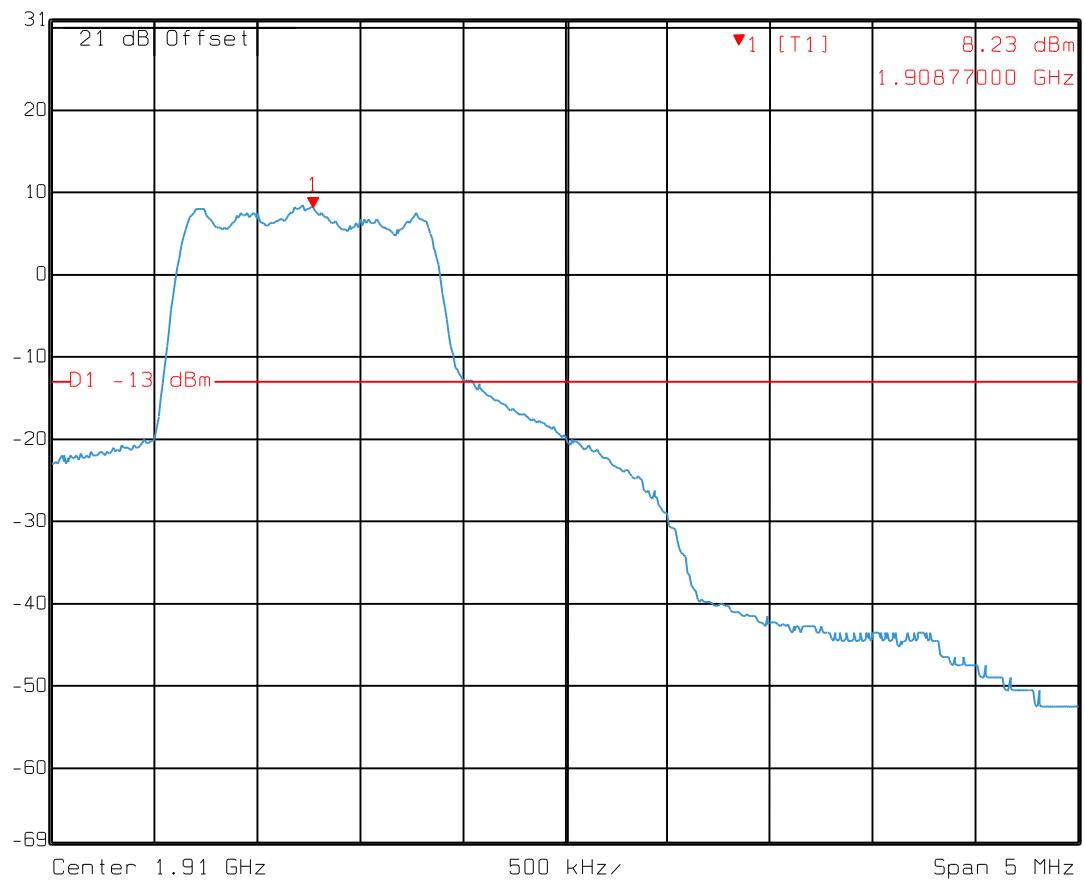
EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2



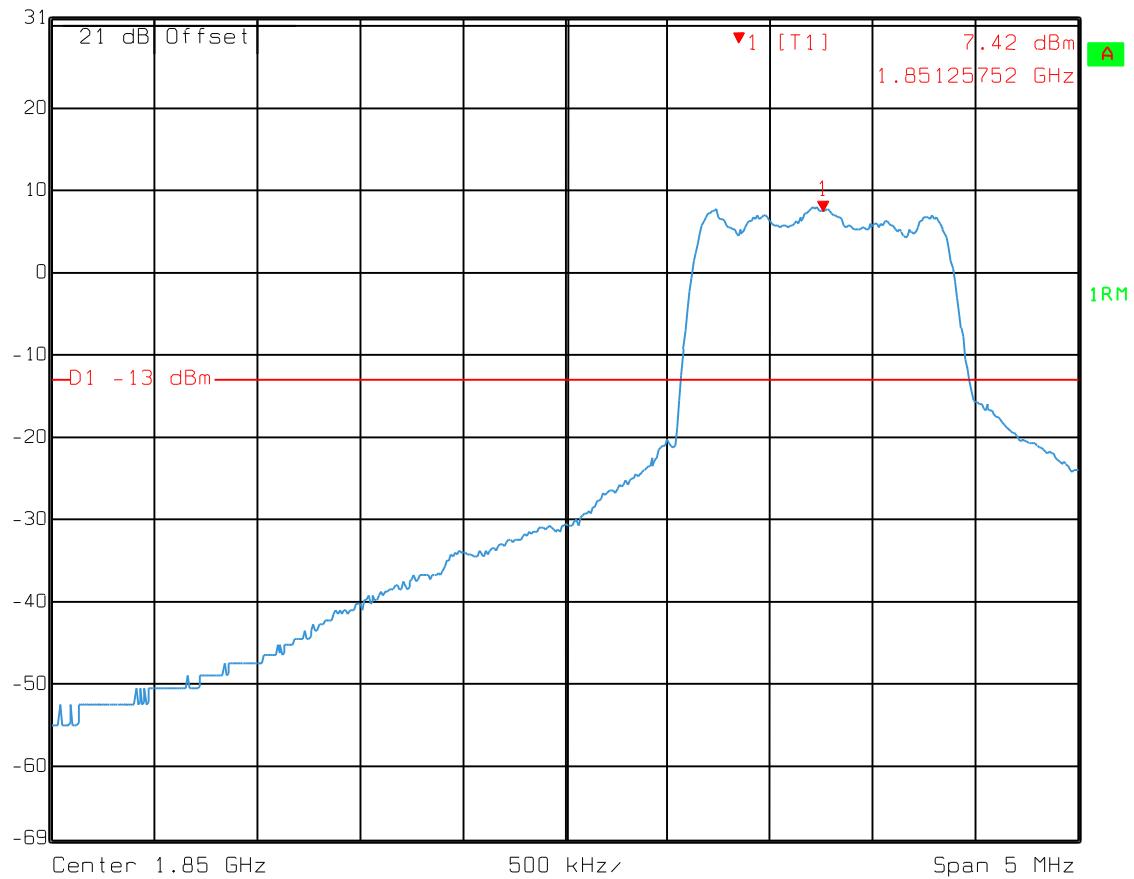
Date: 04.DEC.2003 12:20:56

Band Edge**PCS: 1908**Ref Lvl
31 dBmMarker 1 [T1]
8.23 dBm
1.90877000 GHzRBW 30 kHz
VBW 30 kHz
SWT 3 s
RF Att Mixer Unit20 dB
-10 dBm
dBm

Date: 04.DEC.2003 15:25:48

Band Edge
PCS: 1850MHz

Ref Lvl 31 dBm Marker 1 [T1] 7.42 dBm RBW 30 kHz RF Att 20 dB
VBW 300 kHz Mixer -10 dBm
SWT 3 s Unit dBm



Date: 04.DEC.2003 16:01:04

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious	PARA. NO.: 2.1053
TESTED BY: Dustin Oaks	DATE: 12/04/2003

Test Results: Complies.

Test Data: See attached table.

Measurement Uncertainty: +/- 1.7 dB

Temperature: 21 °C

Relative Humidity: 51 %

Equipment Used: 1464, 791, 1016, 1484, 1485, 1304, 1480

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

EIRP Substitution Method										
Page <u>1</u> of <u>1</u>										
Job No.:	3L0478	Date:	12/4/03					Complete		
Specification:	22 & 24	Temperature(°C):	20					Preliminary	<input checked="" type="checkbox"/>	
Tested By:	Dustin Oaks	Relative Humidity(%):	40							
E.U.T.:	DUAL BAND/TRI-MODE PHONE									
Configuration:	TX									
Sample No.:	1									
Location:	AC 3	RBW:	1 MHz					Measurement		
Detector Type:	Peak	VBW:	1 MHz					Distance:	3 m	
Test Equipment Used										
Antenna:	1304	Directional Coupler:								
Pre-Amp:		Cable #1:	1484							
Filter:	1482	Cable #2:	1485							
Receiver:	1464	Cable #3:								
Attenuator #1		Cable #4:								
Attenuator #2:		Mixer:								
Additional equipment used:										
Measurement Uncertainty: +/-1.7 dB										
Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBi)		EIRP (dBm)	EIRP (mW)	Polarity	Comments
2474	-67.9	37.0			8.9		-22.0	0.01	h	On 824.7, EUT Vert
1649.5	-68.9	33.0			9.4		-26.5	0.002239	h	On 824.7, EUT Vert
1649.5	-66.6	33.0			9.4		-24.2	0.003776	h	On 824.7, EUT Flat
2474	-70.0	34.2			8.9		-26.9	0.002040	v	On 824.7, EUT Flat
1862	-57.8	31.0			9.4		-17.4	0.018281	v	On 1851, EUT Vert
1840	-64.5	31.0			9.4		-24.1	0.00	v	On 1851, EUT Vert
1862	-59.7	33.0			9.4		-17.3	0.02	h	On 1851, EUT Vert
1840	-64.8	33.0			9.4		-22.4	0.005768	h	On 1851, EUT Vert
3703	-66.3	35.5			10.7		-20.1	0.009795	h	On 1851, EUT Vert
1862	-65.6	33.0			9.4		-23.2	0.004753	h	On 1851, EUT Flat
1839	-61.1	33.0			9.4		-18.7	0.013490	h	On 1851, EUT Flat
1862	-57.7	31.0			9.4		-17.3	0.02	v	On 1851, EUT Flat
1839	-65.1	31.0			9.4		-24.7	0.003381	v	On 1851, EUT Flat
1862	-60.6	33.0			9.4		-18.2	0.015276	h	On 1851, EUT Edge
1839	-58.4	33.0			9.4		-16.0	0.025293	h	On 1851, EUT Edge
1862	-61.6	31.0			9.4		-21.2	0.007638	v	On 1851, EUT Edge
1839	-60.9	31.0			9.4		-20.5	0.008933	v	On 1851, EUT Edge
1918	-70.7	31.0			9.4		-30.3	0.000931	v	On 1908, EUT Vert
1918	-70.1	33.0			9.4		-27.7	0.001698	h	On 1908, EUT Vert
1918	-69.2	33.0			9.4		-26.8	0.002084	h	On 1908, EUT Flat
Notes: +/- 4 dB in Cell Band +/- 10 dB in PCS band Performed in 3 orthogonal plans, 3 channels in AMPS, CDMA and PCS. 30MHz - 20GHz tested										

Test Data - Radiated Emissions

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

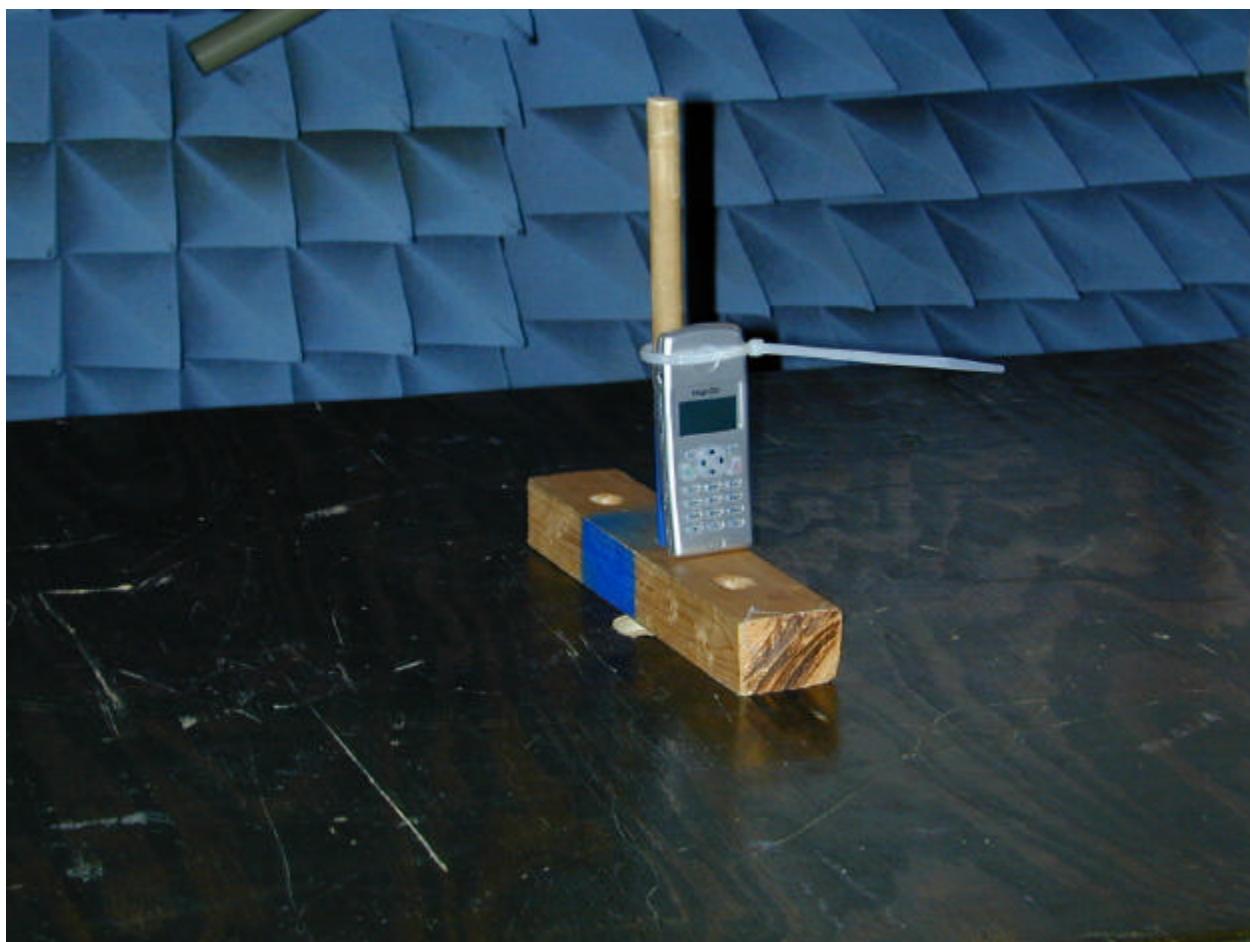
EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Photographs of Test Setup

FRONT VIEW



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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2



Nemko USA, Dallas Facility

FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2



Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 24.235
TESTED BY: Dustin Oaks	DATE: 12/10/2003

Test Results: Complies.**Measurement Data:****At nominal voltage**

PCS		
Nominal Frequency (GHz):		1.88000359
Temp (C)	Frequency (GHz)	Deviation (Hz)
50	1.88000339	-200.00
40	1.88000323	-360.00
30	1.88000338	-210.00
20	1.88000360	10.00
10	1.88000331	-280.00
0	1.88000273	-860.00
-10	1.88000293	-660.00
-20	1.88000312	-466.40
-30	1.88000319	-400.00
MAX Deviation:		-860.00 Hz

At battery end-point**PCS****Nominal Frequency (GHz):** 1.88000359

Temp (C)	Frequency (GHz)	Deviation (Hz)
50	1.88000300	-590.00
40	1.88000300	-590.00
30	1.88000330	-290.00
20	1.88000310	-490.00
10	1.88000301	-580.00
0	1.88000292	-670.00
-10	1.88000272	-870.00
-20	1.88000314	-450.00
-30	1.88000323	-360.00
MAX Deviation:		-870.00 Hz

Equipment Used: 1036, 1474, 0283, 1629

Measurement Uncertainty: 1x10-7 ppm

Temperature: 21 °C

Relative Humidity: 51 %

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	12/18/01	12/19/03
1627	CABLE, 5 ft	MEGAPHASE 10312 1GVT4	N/A	CBU	NA
1474	20db Attenuator DC 18 Ghz	MCL Inc. BW-S20W2	NONE	CBU	N/A
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/11/03	02/11/05
791	PREAMP, 25dB	ICC LNA25	398	10/27/03	10/27/04
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	08/28/03	08/28/04
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	07/24/03	07/23/04
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	07/24/03	07/23/04
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
1480	Bilog Antenna	Schaffner-Chase CBL6111C	2572	CalNotReq	N/A
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	04/22/03	04/21/04

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FCC PART 24, SUBPART E

BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

ANNEX A - TEST METHODOLOGIES

NAME OF TEST: RF Power Output**PARA. NO.: 2.1046**

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

Method Of Measurement: CDMA Per ANSI/J-STD-008
TDMA Per ANSI/J-STD-010
PCS 1900 Per ANSI/J-STD-007

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter or a spectrum analyzer.

Integral Antenna:

Test Method: TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 2.1049

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB.

Method Of Measurement:

CDMA Per ANSI/J-STD-008

Spectrum analyzer settings:

RBW: 30 kHz

VBW: \geq RBW

Span: 5 MHz

Sweep: Auto

GSM Per ANSI/J-STD-007

RBW: 3 kHz

VBW: \geq RBW

Span: 2 MHz

Sweep: Auto

NADC Per IS-136

RBW: 1 kHz

VBW: \geq RBW

Span: 1 MHz

Sweep: Auto

NAME OF TEST: Spurious Emission at Antenna Terminals	PARA. NO.: 2.1051
---	--------------------------

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P)$ dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA Per ANSI/J-STD-008

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 20 kHz (< 1 MHz from Band Edge)
VBW: \geq RBW
Sweep: Auto
Video Avg: 6 Sweeps

GSM Per ANSI/J-STD-007

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 3 kHz (< 1 MHz from Band Edge)
VBW: \geq RBW
Sweep: Auto
Video Avg: Disabled

NADC Per IS-136

RBW: 1 MHz (> 1 MHz from Band Edge)
RBW: 1 kHz (< 1 MHz from Band Edge)
VBW: \geq RBW
Sweep: Auto
Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

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FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.1053

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P)$ dB.

Test Method: TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to a dipole. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting erp is the signal level fed to the reference antenna corrected for gain referenced to a dipole.

NAME OF TEST: Frequency Stability**PARA. NO.: 2.1055**

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement: CDMA Per ANSI/J-STD-008
TDMA Per ANSI/J-STD-007
NADC Per IS-136

Frequency Stability With Voltage Variation

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

Digitally Modulated Signals

Equipment that produces a digitally modulated carrier is tested using a vector modulation analyzer. Frequency accuracy and rho are measured over the specified environmental extremes.

Nemko USA, Dallas Facility

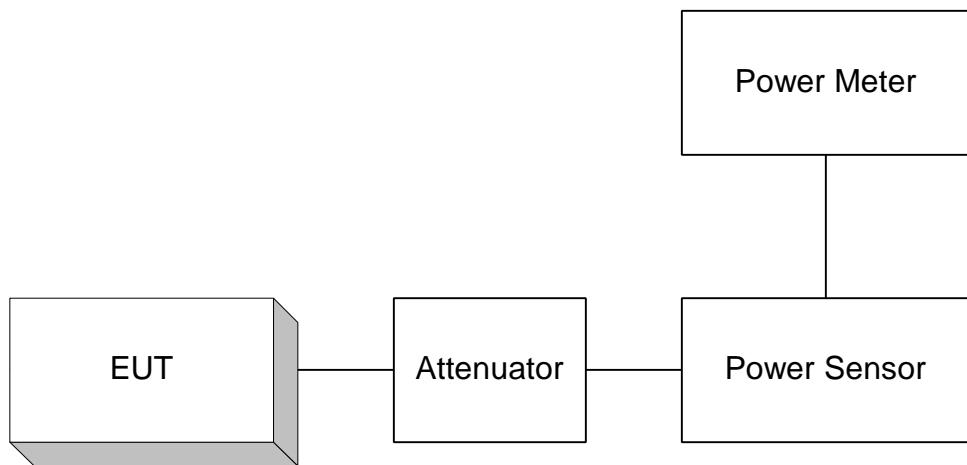
FCC PART 24, SUBPART E
BROADBAND PCS SUBSCRIBER STATION

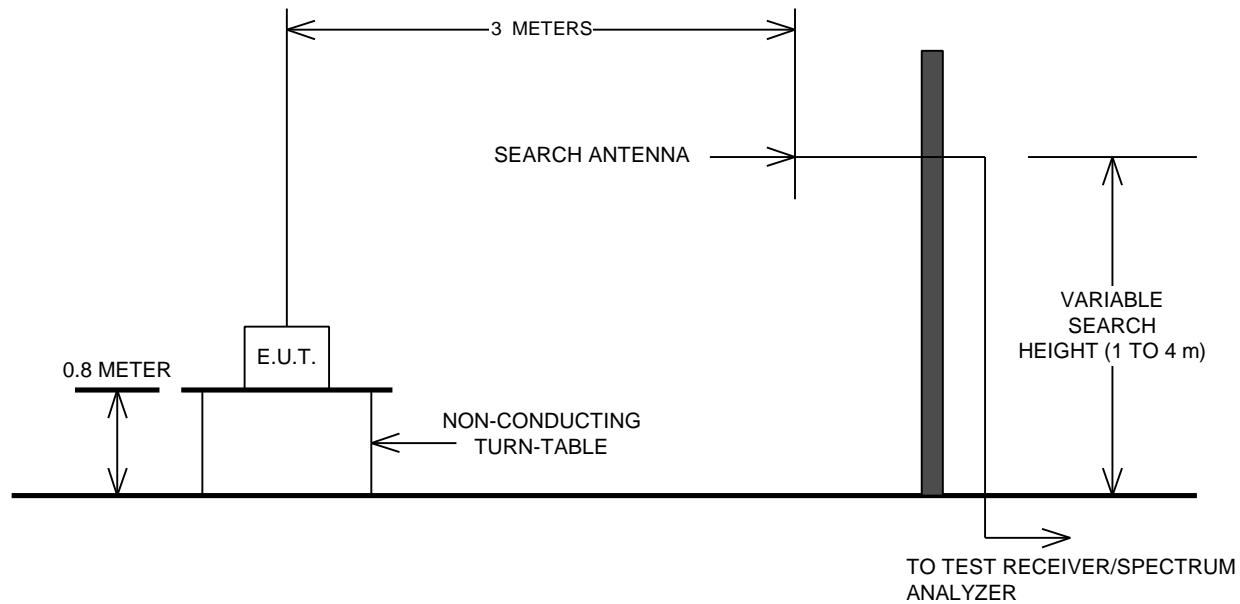
EQUIPMENT: Dual Band Tri-Mode CDMA Cellular Phone

FCC ID: QHOHPN1900

TEST REPORT NO.: 3L0478RUS2

ANNEX B - TEST DIAGRAMS

Para. No. 2.985 - R.F. Power Output**Para. No. 2.989 - Occupied Bandwidth**

Para. No. 2.991 Spurious Emissions at Antenna Terminals**Para. No. 2.993 - Field Strength of Spurious Radiation**

Para. No. 2.995 - Frequency Stability

