

8 PROCEDURE USED TO ESTABLISH TEST SIGNAL

WCDMA + HSDPA Procedure

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev, License</u>
WCDMA Mobile Test	A.09.06

WCDMA

- Call Setup > Shift & Preset
- Cell Parameters: PS Domain Information > Present
 - ATT (IMSI Attach) Flag State > Set
- Security Parameter - System Operations > None
- Channel Type:
 - RMC: 12.2k, 64k, 144k, or 384k
 - AMC: 12.2 UL / 64/ DL AM RMC, 12.2 UL / 144/ DL AM RMC, or 12.2 UL / 384/ DL AM RMC,
- Paging Service: RB Test Mode
- Channel (UARFCN) Parms:

	<u>PCS band</u>	<u>Cell band</u>
▪ DL Channel:	9662 / 9800 / 9938	4357 / 4407 / 4458
▪ UL Channel:	9262 / 9400 / 9538	4132 / 4182 / 4233
- DL DTCH Data: All Ones
- RLC Reestablish: Off
- Call Limit State: Off
- Call Drop Timer: Off
- SRB Config.: 13.6k DCCH
- UE Target Power: 25 dBm
- UL CL Power Ctrl Parameters
 - UL CL Power Ctrl Mode: All Up Bits

RF Output Power Measurement Results – for RMC Channel Type

Channel Type: 12.2K RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.7
4233	846.6	22.6

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.7
9400	1880.0	22.8
9538	1907.6	22.7

Channel Type: 64k RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.8
4233	846.6	22.7

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.9
9538	1907.6	22.8

Channel Type: 144k RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.8
4233	846.6	22.7

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.9
9538	1907.6	22.7

Channel Type: 384k RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.7
4233	846.6	22.6

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.9
9538	1907.6	22.8

RF Output Power Measurement Results - for AMC Channel Type

Channel Type: 12.2K UL / 64 DL AM RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.9
4233	846.6	22.8

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.9
9538	1907.6	22.8

Channel Type: 12.2K UL / 144 DL AM RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.8
4233	846.6	22.7

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.9
9538	1907.6	22.8

Channel Type: 12.2K UL / 384 DL AM RMC

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.1
4182	836.4	22.8
4233	846.6	22.8

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.8
9400	1880.0	22.8
9538	1907.6	22.8

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<u>Application</u>	<u>Rev. License</u>
WCDMA Mobile Test	A.09.06

WCDMA + HSDPA

- Uplink Parameter:
 - UPLINK DPCH Bc / Bd Control: Manual
 - Manual Uplink DPCH Bc: 9
 - Manual Uplink DPCH Bd: 15
- Channel Type: 12.2k + HSDPA
- HSDPA Parameters:
 - HSDPA RB Test Mode Setup
 - HS-DSCH Configuration Type: FRC
 - FRC Type: **H-Set 3 (Category 6)**

HS-DSCH category	Corresponding requirement
Category 1	H-Set 1
Category 2	H-Set 1
Category 3	H-Set 2
Category 4	H-Set 2
Category 5	H-Set 3
Category 6	H-Set 3
Category 7	H-Set 6 (Rel-6)
Category 8	H-Set 6 (Rel-6)
Category 10	H-Set 4
Category 11	H-Set 5

- CN Domain: CS Domain
- Uplink 64k DTCH for HSDPA Loopback State: On
- HS-DSCH Data Pattern: All Ones
- RLC Header on HS-DSCH: Present
- HSDPA Uplink Parameters
 - DelatACK: 5
 - DeltaNACK: 5
 - DeltaCQI: 2

RF Output Power Measurement Results - for 12.2k RMC HSDPA Channel Type

12.2k RMC + HSDPA

Cell Band

Channel	Frequency (MHz)	Ch Power (dBm)
4132	826.4	23.0
4182	836.4	22.5
4233	846.6	22.4

PCS Band

Channel	Frequency (MHz)	Ch Power (dBm)
9262	1852.4	22.5
9400	1880.0	22.5
9538	1907.6	22.5