

9/9/02

**FCC Measurement****Compliance Certification Services, Morgan Hill Open Field Site**

**Test Engr:** Thu  
**Project #:** 02U1312-1  
**Company:** Sierra Wireless, Inc.  
**EUT Descrip.:** 800MHz / 1900MHz Dual Band CDMA PC Card  
**EUT M/N:** Ac575  
**Test Target:** FCC 22  
**Mode Oper:** Tx

Frequency (GHz)	SA reading (dBuV)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes (dBm) (Average Power Meter / Spec. Analyzer)
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Fundamental, Antenna @ X-Position, Standup (Low, Mid, &amp; High Channels):

0.824	95.50	24.80	1.00	0.00	0.00	<b>23.80</b>			V (23.09dBm / 26.3dBm)
0.837	95.70	25.00	1.00	0.00	0.00	<b>24.00</b>			V (23.15dBm / 27.0dBm)
0.849	95.60	24.90	1.00	0.00	0.00	<b>23.90</b>			V (23.09dBm / 26.5dBm)

Fundamental, Antenna @ Y-Position, Parelled with ground plane (Low, Mid, &amp; High Channels):

0.824	96.20	24.60	1.00	0.00	0.00	<b>23.40</b>			H (23.09dBm / 26.3dBm)
0.837	96.50	25.00	1.00	0.00	0.00	<b>24.00</b>			H (23.15dBm / 27.0dBm)
0.849	96.10	24.40	1.00	0.00	0.00	<b>23.30</b>			H (23.09dBm / 26.5dBm)

RBW=VBW=3MHz

EPR = SG reading - CL + Gain (dBd)

Gain (dBd) = Gain (dBi) - 2.15

Margin = EPR - Limit

SA: Spectrum Analyzer, HP 8593EM, S/N: 3710A00205

CL: cable loss (5ft), FLEXCO

SG: Signal Generator, HP 83732B, S/N: US34490599

RX Antenna: Bicon, Eston 94455-1, S/N: 1214

TX Antenna: Dipole, Compliance Design, Roberts, S/N: 116  
Horn, EMCO 3115, S/N: 6717LP, EMCO 3146, S/N: 3163  
Horn, EMCO 3115, S/N: 6739

9/6/02

**FCC Measurement****Compliance Certification Services, Morgan Hill Open Field Site**

**Test Engr:** Thu  
**Project #:** 02U1312-1  
**Company:** Sierra Wireless, Inc.  
**EUT Descrip.:** 800MHz / 1900MHz Dual Band CDMA PC Card  
**EUT M/N:** Ac575  
**Test Target:** FCC 24  
**Mode Oper:** Tx

Frequency (GHz)	SA reading (dBuV)	SG reading (dBm)	CL (dB)	Gain (dBi)	Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes (dBm) (Power Meter / Spectrum)
Fundamental, Antenna @ X-Position, Standup (Low, Mid, & High Channels):									
1.850	100.20	18.60	1.30	8.15	0.00	<b>25.45</b>			V (23.1dBm / 26.9dBm)
1.880	101.30	19.50	1.30	8.15	0.00	<b>26.35</b>			V (23.2dBm / 27.0dBm)
1.909	100.30	18.70	1.30	8.15	0.00	<b>25.55</b>			V (23.1dBm / 26.9dBm)
Fundamental, Antenna @ Z-Position, Parelled with ground plane & Laptop (Low, Mid, & High Channels):									
1.850	100.50	18.70	1.30	8.15	0.00	<b>25.55</b>			H (23.1dBm / 26.9dBm)
1.880	101.80	19.40	1.30	8.15	0.00	<b>26.25</b>			H (23.2dBm / 27.0dBm)
1.909	100.60	18.80	1.30	8.15	0.00	<b>25.65</b>			H (23.1dBm / 26.9dBm)

RBW=VBW=3MHz

**EIPR** = SG reading - CL + Gain (dBi)**Margin** = EIPR - Limit**SA:** Spectrum Analyzer, HP 8593EM, S/N: 3710A00205**SG:** Signal Generator, HP 83732B, S/N: US34490599**TX Antenna:** Horn, EMCO 3115, S/N: 6717**CL:** cable loss (3ft), FLEXCO**RX Antenna:** Horn, EMCO 3115, S/N: 6739