13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C)	23.1
Relative HUMIDITY (%)	59.5
Atmospheric PRESSURF (kPa)	99.0

835MHz Muscle **Mixture Type: Dielectric Constant:** 56.2 0.95 **Conductivity:**

13.5 Measurement Results (AMPS Body SAR)

FREQU MHz	ENCY Ch.	Modulation	POWER * (dBm)	Separation Distance (cm)**	Antenna Position	SAR (W/kg)
			(- /	, ,		(3)
824.04	0991	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	In	0.479
824.04	0991	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.405
836.49	0383	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	In	0.520
836.49	0383	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.452
848.97	0799	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	In	0.708
848.97	0799	AMPS	27.0 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.600
848.97	0799	AMPS	27.0 [w/ Extended Battery]	1.5 cm [w/ BeltClip]	In	0.692
848.97	0799	AMPS	27.0 [w/ Extended Battery]	1.5 cm [w/ BeltClip]	Out	0.571
ANS	ANSI / IEEE C95.1 1992 - SAFETY LIMIT		Body			
Spatial Peak		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population averaged over 1 gram						

4.

7.

1. All modes of operation were investigated and the worst-case are reported.

X

2. Battery condition is fully charged for all readings.

Battery Type X 3.

Standard X Extended

☐ EIRP **ERP**

* Power Measured 5. SAR Measurement System

** Test Configuration

 SPEAG

Conducted

IDX

SAR Configuration 6.

☐ Head X BeltClip

⊠ Body □ Without BeltClip

Randy Ortanez President & Chief Engineer



Hand

Figure 20. Body SAR Test Setup

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C)	23.1	
Relative HUMIDITY (%)	59.5	
Atmospheric PRESSLIRE (kPa)	99.0	

Mixture Type: 1900MHz Muscle

Dielectric Constant: 54.2

Conductivity: 1.85

13.7 Measurement Results (PCS CDMA Body SAR)

FREQU	ENCY	Modulation	POWER *	Separation	Antenna	SAR
MHz	Ch.		(dBm)	Distance (cm)**	Position	(W/kg)
1851.25	0025	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	ln	0.275
1851.25	0025	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.121
1880.00	0600	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	ln	0.240
1880.00	0600	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.149
1908.75	1175	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	In	0.204
1908.75	1175	PCS CDMA	24.5 [w/ Standard Battery]	1.5 cm [w/ BeltClip]	Out	0.239
1851.25	0025	PCS CDMA	24.5 [w/ Extended Battery]	1.5 cm [w/ BeltClip]	In	0.249
1851.25	0025	PCS CDMA	24.5 [w/ Extended Battery]	1.5 cm [w/ BeltClip]	Out	0.116
AN:	ANSI / IEEE C95.1 1992 - SAFETY LIMIT		Body			
Spatial Peak		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population		averaged over 1 gram				

NOTES:

- 1. All modes of operation were investigated and the worst-case are reported.
- 2. Battery condition is fully charged for all readings.
- 4. * Power Measured

 ☐ Conducted ☐ EIRP ☐ ERP
- 5. SAR Measurement System

 SPEAG □ IDX
- 6. SAR Configuration \square Head \boxtimes Body \square Hand
- 7. ** Test Configuration ☐ BeltClip ☐ Without BeltClip

Randy Ortanez President & Chief Engineer



Figure 22. Body SAR Test Setup

Test Report S/N: SAR.210502268.MBU Test Dates: May 02-04, 2001

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C)	23.1
Relative HUMIDITY (%)	59.5
Atmospheric PRESSURF (kPa)	99.0

Mixture Type:835MHz MuscleDielectric Constant:56.2Conductivity:0.95

13.8 Measurement Results (AMPS Hand SAR)

FREQU	ENCY	Modulation	POWER *	Phantom	Antenna	SAR
MHz	Ch.		(dBm)	Position	Position	(W/kg)
848.97	0799	AMPS	27.0 [w/ Standard Battery]	Flat	In	1.260
848.97	0799	AMPS	27.0 [w/ Standard Battery]	Flat	Out	0.929
848.97	0799	AMPS	27.0 [w/ Extended Battery]	Flat	In	1.200
848.97	0799	AMPS	27.0 [w/ Extended Battery]	Flat	Out	0.823
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Hand W/kg (mW/ raged over 10 gran		

NOTES:

- 1. All modes of operation were investigated and the worst-case are reported.
- 2. Battery condition is fully charged for all readings.
- 3. Battery Type

 Standard

 Extended
- 4. * Power Measured

 ☑ Conducted □ EIRP □ ERP
- 5. SAR Measurement System ☑ SPEAG □ IDX
- 6. SAR Configuration ☐ Head ☐ Body ☒ Hand

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Figure 23. Hand SAR Test Setup

Test Report S/N: SAR.210502268.MBU Test Dates: May 02-04, 2001

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C)	23.1
Relative HUMIDITY (%)	59.5
Atmospheric PRESSURE (kPa)	99.0

Mixture Type: 1900MHz Muscle

Dielectric Constant: 54.2

Conductivity: 1.85

13.10 Measurement Results (PCS CDMA Hand SAR)

FREQU	ENCY	Modulation	POWER *	Phantom	Antenna	SAR
MHz	Ch.		(dBm)	Position	Position	(W/kg)
1851.25	0025	PCS CDMA	24.5 [w/ Standard Battery]	Flat	In	0.478
1851.25	0025	PCS CDMA	24.5 [w/ Standard Battery]	Flat	Out	0.219
1880.00	0600	PCS CDMA	24.5 [w/ Standard Battery]	Flat	In	0.479
1880.00	0600	PCS CDMA	24.5 [w/ Standard Battery]	Flat	Out	0.625
1908.75	1175	PCS CDMA	24.5 [w/ Standard Battery]	Flat	In	0.445
1908.75	1175	PCS CDMA	24.5 [w/ Standard Battery]	Flat	Out	0.729
1908.75	1175	PCS CDMA	24.5 [w/ Extended Battery]	Flat	In	0.438
1908.75	1175	PCS CDMA	24.5 [w/ Extended Battery]	Flat	Out	0.652
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Hand W/kg (mW/ aged over 10 gran		
Unco	ntrolled	Exposure/Ger	neral Population	avera	aged over 10 gram	15

NOTES:

- 1. All modes of operation were investigated and the worst-case are reported.
- 2. Battery condition is fully charged for all readings.
- 3. Battery Type ⊠ Standard ⊠ Extended
- 4. * Power Measured ⊠ Conducted □ EIRP □ ERP
- 5. SAR Measurement System ⊠ SPEAG □ IDX
- 6. SAR Configuration \square Head \square Body \boxtimes Hand

Randy Ortanez President & Chief Engineer



Figure 25. Hand SAR Test Setup