

4.0 MEASUREMENT SUMMARY

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the EUT are reported in Appendix A.

HEAD SAR MEASUREMENT RESULTS - Left Head Section, Extended-Life Battery

Freq. (MHz)	Channel	Modulation	Cond. Power Before (dBm)	Cond. Power After (dBm)	Battery Type	Antenna Position	Phantom Section	Test Position	SAR 1g (w/kg)
1851.25	25	PCS CDMA	24.56	24.48	Extended	Retracted	Left Ear	Cheek/Touch	1.57
1851.25	25	PCS CDMA	24.52	24.36	Extended	Extended	Left Ear	Cheek/Touch	0.289
1880.00	600	PCS CDMA	24.51	24.37	Extended	Retracted	Left Ear	Cheek/Touch	1.18
1880.00	600	PCS CDMA	24.55	24.49	Extended	Extended	Left Ear	Cheek/Touch	0.557
1908.75	1175	PCS CDMA	24.53	24.48	Extended	Retracted	Left Ear	Cheek/Touch	1.25
1908.75	1175	PCS CDMA	24.57	24.51	Extended	Extended	Left Ear	Cheek/Touch	0.464
1880.00	600	PCS CDMA	24.55	24.40	Extended	Retracted	Left Ear	Cheek/Tilt	0.180
1880.00	600	PCS CDMA	24.54	24.43	Extended	Extended	Left Ear	Cheek/Tilt	0.164
Mixture Type: 1880MHz Brain Dielectric Constant: 39.7 Conductivity: 1.48 (Measured)				ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak - Uncontrolled Exposure / General Population BRAIN: 1.6 W/kg (averaged over 1 gram)					

Notes:

1. Test Date: January 28, 2002.
2. The SAR values measured were below the maximum limit of 1.6 w/kg (averaged over 1 gram).
3. The highest head SAR value measured (left head section, extended life battery) was 1.57 w/kg (low channel, antenna retracted, cheek/touch position).
4. The EUT was tested with the clamshell open, which is the only ear-held operating configuration for this phone.
5. Ambient Temperature: 22.8 °C
Relative Humidity: 30.2 %
Atmospheric Pressure: 102.27 kPa
Fluid Temperature ≈ 23 °C
6. During the entire test the conducted power was maintained to within 5% of the initial conducted power.
7. Standard Battery: 550mAh
Extended Battery: 950mAh

MEASUREMENT SUMMARY (CONT.)

HEAD SAR MEASUREMENT RESULTS – Left Head Section, Standard-Life Battery

Freq. (MHz)	Channel	Modulation	Cond. Power Before (dBm)	Cond. Power After (dBm)	Battery Type	Antenna Position	Phantom Section	Test Position	SAR 1g (w/kg)
1851.25	25	PCS CDMA	24.56	24.45	Standard	Retracted	Left Ear	Cheek/Touch	1.44
1851.25	25	PCS CDMA	24.51	24.42	Standard	Extended	Left Ear	Cheek/Touch	0.345
1880.00	600	PCS CDMA	24.56	24.44	Standard	Retracted	Left Ear	Cheek/Touch	1.33
1880.00	600	PCS CDMA	24.55	24.43	Standard	Extended	Left Ear	Cheek/Touch	0.514
1908.75	1175	PCS CDMA	24.56	24.41	Standard	Retracted	Left Ear	Cheek/Touch	1.27
1908.75	1175	PCS CDMA	24.52	24.45	Standard	Extended	Left Ear	Cheek/Touch	0.511
1880.00	600	PCS CDMA	24.54	24.51	Standard	Retracted	Left Ear	Cheek/Tilt	0.183
1880.00	600	PCS CDMA	24.56	24.51	Standard	Extended	Left Ear	Cheek/Tilt	0.123
Mixture Type: 1880MHz Brain Dielectric Constant: 39.7 Conductivity: 1.48 (Measured)				ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak - Uncontrolled Exposure / General Population BRAIN: 1.6 W/kg (averaged over 1 gram)					

Notes:

1. Test Date: January 28, 2002.
2. The SAR values measured were below the maximum limit of 1.6 w/kg (averaged over 1 gram).
3. The highest head SAR value measured (left head section, standard life battery) was 1.44 w/kg (low channel, antenna retracted, cheek/touch position).
4. The EUT was tested with the clamshell open, which is the only ear-held operating configuration for this phone.
5. Ambient Temperature: 22.8 °C
Relative Humidity: 30.2 %
Atmospheric Pressure: 102.27 kPa
Fluid Temperature: ≈ 23 °C
6. During the entire test the conducted power was maintained to within 5% of the initial conducted power.
7. Standard Battery: 550mAh
Extended Battery: 950mAh

MEASUREMENT SUMMARY (CONT.)

HEAD SAR MEASUREMENT RESULTS - Right Head Section, Extended-Life Battery

Freq. (MHz)	Channel	Modulation	Cond. Power Before (dBm)	Cond. Power After (dBm)	Battery Type	Antenna Position	Phantom Section	Test Position	SAR 1g (w/kg)
1851.25	25	PCS CDMA	24.56	24.48	Extended	Retracted	Right Ear	Cheek/Touch	1.47
1851.25	25	PCS CDMA	24.51	24.40	Extended	Extended	Right Ear	Cheek/Touch	0.407
1880.00	600	PCS CDMA	24.56	24.44	Extended	Retracted	Right Ear	Cheek/Touch	1.08
1880.00	600	PCS CDMA	24.57	24.44	Extended	Extended	Right Ear	Cheek/Touch	0.729
1908.75	1175	PCS CDMA	24.55	24.40	Extended	Retracted	Right Ear	Cheek/Touch	1.19
1908.75	1175	PCS CDMA	24.54	24.43	Extended	Extended	Right Ear	Cheek/Touch	0.625
1880.00	600	PCS CDMA	24.53	24.35	Extended	Retracted	Right Ear	Ear/Tilt	0.165
1880.00	600	PCS CDMA	24.52	24.36	Extended	Extended	Right Ear	Ear/Tilt	0.0912
Mixture Type: 1880MHz Brain Dielectric Constant: 39.7 Conductivity: 1.48 (Measured)				ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak - Uncontrolled Exposure / General Population BRAIN: 1.6 W/kg (averaged over 1 gram)					

Notes:

1. Test Date: January 29, 2002.
2. The SAR values measured were below the maximum limit of 1.6 w/kg (averaged over 1 gram).
3. The highest head SAR value measured (right head section, extended life battery) was 1.47 w/kg (low channel, antenna retracted, cheek/touch position).
4. The EUT was tested with the clamshell open, which is the only ear-held operating configuration for this phone.
5. Ambient Temperature: 22.6 °C
Relative Humidity: 30.2 %
Atmospheric Pressure: 102.27 kPa
Fluid Temperature: ≈ 23.0 °C
6. During the entire test the conducted power was maintained to within 5% of the initial conducted power.
7. Standard Battery: 550mAh
Extended Battery: 950mAh

MEASUREMENT SUMMARY (CONT.)

HEAD SAR MEASUREMENT RESULTS - Right Head Section, Standard-Life Battery

Freq. (MHz)	Channel	Modulation	Cond. Power Before (dBm)	Cond. Power After (dBm)	Battery Type	Antenna Position	Phantom Section	Test Position	SAR 1g (w/kg)
1851.25	25	PCS CDMA	24.56	24.44	Standard	Retracted	Right Ear	Cheek/Touch	1.51
1851.25	25	PCS CDMA	24.50	24.41	Standard	Extended	Right Ear	Cheek/Touch	0.417
1880.00	600	PCS CDMA	24.54	24.38	Standard	Retracted	Right Ear	Cheek/Touch	1.24
1880.00	600	PCS CDMA	24.51	24.39	Standard	Extended	Right Ear	Cheek/Touch	0.699
1908.75	1175	PCS CDMA	24.55	24.52	Standard	Retracted	Right Ear	Cheek/Touch	1.24
1908.75	1175	PCS CDMA	24.51	24.53	Standard	Extended	Right Ear	Cheek/Touch	0.532
1880.00	600	PCS CDMA	24.55	24.50	Standard	Retracted	Right Ear	Ear/Tilt	0.197
1880.00	600	PCS CDMA	24.50	24.41	Standard	Extended	Right Ear	Ear/Tilt	0.132
Mixture Type: 1880MHz Brain Dielectric Constant: 39.7 Conductivity: 1.48 (Measured)				ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak - Uncontrolled Exposure / General Population BRAIN: 1.6 W/kg (averaged over 1 gram)					

Notes:

1. Test Date: January 29, 2002.
2. The SAR values measured were below the maximum limit of 1.6 w/kg (averaged over 1 gram).
3. The highest head SAR value measured (right head section, standard life battery) was 1.51 w/kg (low channel, antenna retracted, cheek/touch position).
4. The EUT was tested with the clamshell open, which is the only ear-held operating configuration for this phone.
5. Ambient Temperature: 22.6 °C
Relative Humidity: 30.2 %
Atmospheric Pressure: 102.27 Kpa
Fluid Temperature: ≈ 23.0 °C
6. During the entire test the conducted power was maintained to within 5% of the initial conducted power.
7. Standard Battery: 550mAh
Extended Battery: 950mAh

MEASUREMENT SUMMARY (CONT.)

BODY SAR MEASUREMENT RESULTS

Freq. (MHz)	Channel	Modulation	Cond. Power Before (dBm)	Cond. Power After (dBm)	Battery Type	Antenna Position	Phantom Section	Separation Distance (cm)	SAR 1g (w/kg)
1880.00	600	PCS CDMA	24.51	24.34	Extended	Retracted	Planar	1.5	0.371
1880.00	600	PCS CDMA	24.51	24.40	Extended	Extended	Planar	1.5	0.976
1880.00	600	PCS CDMA	24.51	24.37	Standard	Retracted	Planar	1.5	0.410
1880.00	600	PCS CDMA	24.52	24.50	Standard	Extended	Planar	1.5	1.41
1851.25	25	PCS CDMA	24.52	24.56	Standard	Extended	Planar	1.5	0.973
1908.75	1175	PCS CDMA	24.52	24.36	Standard	Extended	Planar	1.5	0.972
Mixture Type: 1880MHz Body Dielectric Constant: 53.2 Conductivity: 1.61 (Measured)				ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak - Uncontrolled Exposure / General Population BODY: 1.6 W/kg (averaged over 1 gram)					

Notes:

1. Test Date(s): January 30, 2002.
2. The body SAR values measured were below the maximum limit of 1.6 w/kg (averaged over 1 gram).
3. The highest body SAR value measured was 1.41 w/kg (mid channel, antenna extended, standard-life battery).
4. The EUT was tested for body SAR with the clamshell closed, which is the only intended body-worn operating configuration for this phone. A 1.5cm separation distance was maintained between the back of the phone and the outer surface of the planar phantom.
5. Ambient Temperature: 24.4 °C
Relative Humidity: 31.0 %
Atmospheric Pressure: 102.27 kPa
Fluid Temperature: ≈ 23.0 °C
6. During the entire test the conducted power was maintained to within 5% of the initial conducted power.
7. Standard Battery: 550mAh
Extended Battery: 950mAh