

# SAR DATA SUMMARY

Mixture Type: 835MHz Brain

14.1 MEASUREMENT RESULTS (AMPS Right Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
836.49	0383	AMPS	26.0	26.0	Extended	Ear / 15° Tilt	In	0.0896
836.49	0383	AMPS	26.0	26.0	Extended	Ear / 15° Tilt	Out	0.383
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.0881
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.369
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>						<b>Brain</b>		
<b>Spatial Peak</b>						<b>1.6 W/kg (mW/g)</b>		
<b>Uncontrolled Exposure/General Population</b>						averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  2. All modes of operation were investigated, and worst-case results are reported.
  3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
- |                           |  |   |  |
|---------------------------|--|---|--|
| †Power Measured           | <input checked="" type="checkbox"/> Conducted        | <input type="checkbox"/> ERP                    | <input type="checkbox"/> EIRP                  |
| 4. SAR Measurement System | <input checked="" type="checkbox"/> DASY3            | <input type="checkbox"/> IDX                    |  |
| Phantom Configuration     | <input type="checkbox"/> Left Head                   | <input type="checkbox"/> Flat Phantom           | <input checked="" type="checkbox"/> Right Head |
| 5. SAR Configuration      | <input checked="" type="checkbox"/> Head             | <input type="checkbox"/> Body                   | <input type="checkbox"/> Hand                  |
| 6. Test Signal Call Mode  | <input checked="" type="checkbox"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator |  |
7. Tissue parameters and temperatures are listed on the SAR plots.
  8. Liquid tissue depth is 15.1 cm. ± 0.1
  9. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tile/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

  


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**Figure 14.1 Right Head SAR Test Setup**  
-- Ear / Tilt Position --

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.2 MEASUREMENT RESULTS (AMPS Left Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>‡</sup>			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
836.49	0383	AMPS	26.0	26.0	Extended	Ear / 15° Tilt	In	0.0912
836.49	0383	AMPS	26.0	26.0	Extended	Ear / 15° Tilt	Out	0.241
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.0893
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.216
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
 

<sup>‡</sup> Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP	<input type="checkbox"/> EIRP
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4. SAR Measurement System
 

<input checked="" type="checkbox"/> DASY3	<input type="checkbox"/> IDX
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5. SAR Configuration
 

<input checked="" type="checkbox"/> Left Head	<input type="checkbox"/> Flat Phantom	<input type="checkbox"/> Right Head
<input checked="" type="checkbox"/> Head	<input type="checkbox"/> Body	<input type="checkbox"/> Hand
6. Test Signal Call Mode
 

<input checked="" type="checkbox"/> Manu. Test Codes	<input type="checkbox"/> Base Station Simulator
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7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1
9. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tile/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

  


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**Figure 14.2 Left Head SAR Test Setup  
-- Ear / Tilt Position --**

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.3 MEASUREMENT RESULTS (CELLULAR CDMA Right Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>‡</sup>			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
835.89	0363	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	In	0.0762
835.89	0363	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	Out	0.287
835.89	0363	CDMA	24.5	24.5	Standard	Ear / 15° Tilt	In	0.0754
835.89	0363	CDMA	24.5	24.5	Standard	Ear / 15° Tilt	Out	0.279
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
 

<sup>‡</sup> Power Measured	<input checked="" type="checkbox"/> Conducted	<input type="checkbox"/> ERP	<input type="checkbox"/> EIRP
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4. SAR Measurement System
 

<input checked="" type="checkbox"/> DASY3	<input type="checkbox"/> IDX
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 Phantom Configuration
 

<input type="checkbox"/> Left Head	<input type="checkbox"/> Flat Phantom	<input checked="" type="checkbox"/> Right Head
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5. SAR Configuration
 

<input checked="" type="checkbox"/> Head	<input type="checkbox"/> Body	<input type="checkbox"/> Hand
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6. Test Signal Call Mode
 

<input checked="" type="checkbox"/> Manu. Test Codes	<input type="checkbox"/> Base Station Simulator
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7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1
9. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tile/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

  
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**Figure 14.3 Right Head SAR Test Setup  
-- Ear / Tilt Position --**

# SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain

14.4 MEASUREMENT RESULTS (CELLULAR CDMA Left Head SAR - Tilt)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
835.89	0363	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	In	0.0721
835.89	0363	CDMA	24.5	24.5	Extended	Ear / 15° Tilt	Out	0.239
835.89	0363	CDMA	24.5	24.5	Standard	Ear / 15° Tilt	In	0.0717
835.89	0363	CDMA	24.5	24.5	Standard	Ear / 15° Tilt	Out	0.223
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
 

†Power Measured	<input checked="" type="checkbox"/>	Conducted	<input type="checkbox"/>	ERP	<input type="checkbox"/>	EIRP
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4. SAR Measurement System
 

<input checked="" type="checkbox"/>	DASY3	<input type="checkbox"/>	IDX
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- Phantom Configuration
 

<input checked="" type="checkbox"/>	Left Head	<input type="checkbox"/>	Flat Phantom	<input type="checkbox"/>	Right Head
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5. SAR Configuration
 

<input checked="" type="checkbox"/>	Head	<input type="checkbox"/>	Body	<input type="checkbox"/>	Hand
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6. Test Signal Call Mode
 

<input checked="" type="checkbox"/>	Manu. Test Codes	<input type="checkbox"/>	Base Station Simulator
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7. Tissue parameters and temperatures are listed on the SAR plots.
8. Liquid tissue depth is 15.1 cm. ± 0.1
9. Justification for reduced test configurations: Per FCC/OET Bulletin 65 Supplement C (July, 2001), if the SAR measured at the middle channel for each test configuration (left, right, cheek/touch, tile/ear, extended and retracted) is at least 3.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s).

  


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**Figure 14.4 Left Head SAR Test Setup  
-- Ear / Tilt Position --**

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

14.5 MEASUREMENT RESULTS (AMPS Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER <sup>‡</sup>			Separation Distance (cm) <sup>**</sup>	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
848.97	0799	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	In	0.679
848.97	0799	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	Out	1.134
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle <b>1.6 W/kg (mW/g)</b> averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  2. All modes of operation were investigated, and worst-case results are reported.
  3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
- |                                     |  |   |                                     |
|-------------------------------------|--|---|-------------------------------------|
| <sup>‡</sup> Power Measured         | <input checked="" type="checkbox"/> Conducted        | <input type="checkbox"/> ERP                        | <input type="checkbox"/> EIRP       |
| 4. SAR Measurement System           | <input checked="" type="checkbox"/> DASY3            | <input type="checkbox"/> IDX                        |                                     |
| Phantom Configuration               | <input type="checkbox"/> Left Head                   | <input checked="" type="checkbox"/> Flat Phantom    | <input type="checkbox"/> Right Head |
| 5. SAR Configuration                | <input type="checkbox"/> Head                        | <input checked="" type="checkbox"/> Body            | <input type="checkbox"/> Hand       |
| 6. Test Signal Call Mode            | <input checked="" type="checkbox"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator     |                                     |
| 7. <sup>**</sup> Test Configuration | <input type="checkbox"/> With Holster                | <input checked="" type="checkbox"/> Without Holster |                                     |
8. Tissue parameters and temperatures are listed on the SAR plots.
  9. Both sides of the phone were tested and the worst-case side is reported.
  10. Liquid tissue depth is 15.1 cm. ± 0.1

  


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**Figure 14.5 Body SAR Test Setup  
-- w/o Holster --**

## SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

<b>14.6 MEASUREMENT RESULTS (CELLULAR CDMA Body SAR w/o Holster)</b>								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>			Separation Distance (cm) <sup>**</sup>	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
848.31	0777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	In	0.284
848.31	0777	CDMA	24.5	24.5	Standard	1.5 [w/o Holster]	Out	0.751
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b> <b>Spatial Peak</b> <b>Uncontrolled Exposure/General Population</b>						<b>Muscle</b> <b>1.6 W/kg (mW/g)</b> averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  2. All modes of operation were investigated, and worst-case results are reported.
  3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
- |                                     |                                     |                  |                                     |                        |                          |            |
|-------------------------------------|-------------------------------------|------------------|-------------------------------------|------------------------|--------------------------|------------|
| <sup>†</sup> Power Measured         | <input checked="" type="checkbox"/> | Conducted        | <input type="checkbox"/>            | ERP                    | <input type="checkbox"/> | EIRP       |
| 4. SAR Measurement System           | <input checked="" type="checkbox"/> | DASY3            | <input type="checkbox"/>            | IDX                    |                          |            |
| Phantom Configuration               | <input type="checkbox"/>            | Left Head        | <input checked="" type="checkbox"/> | Flat Phantom           | <input type="checkbox"/> | Right Head |
| 5. SAR Configuration                | <input type="checkbox"/>            | Head             | <input checked="" type="checkbox"/> | Body                   | <input type="checkbox"/> | Hand       |
| 6. Test Signal Call Mode            | <input checked="" type="checkbox"/> | Manu. Test Codes | <input type="checkbox"/>            | Base Station Simulator |                          |            |
| 7. <sup>**</sup> Test Configuration | <input type="checkbox"/>            | With Holster     | <input checked="" type="checkbox"/> | Without Holster        |                          |            |
8. Tissue parameters and temperatures are listed on the SAR plots.
  9. Both sides of the phone were tested and the worst-case side is reported.
  10. Liquid tissue depth is 15.1 cm. ± 0.1

  


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**Figure 14.6 Body SAR Test Setup**  
-- w/o Holster --

## SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Muscle

14.7 MEASUREMENT RESULTS (PCS CDMA Body SAR w/o Holster)								
FREQUENCY		Modulation	Begin / End POWER <sup>†</sup>			Separation Distance (cm) <sup>**</sup>	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1880.00	0600	CDMA	23.0	23.0	Standard	1.5 [w/o Holster]	In	1.232
1880.00	0600	CDMA	23.0	23.0	Standard	1.5 [w/o Holster]	Out	1.321
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle <b>1.6 W/kg (mW/g)</b> averaged over 1 gram		

**NOTES:**

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
  2. All modes of operation were investigated, and worst-case results are reported.
  3. Battery is fully charged for all readings. Standard & Extended Batteries are options.
- |                                     |  |   |                                     |
|-------------------------------------|--|---|-------------------------------------|
| <sup>†</sup> Power Measured         | <input checked="" type="checkbox"/> Conducted        | <input type="checkbox"/> ERP                        | <input type="checkbox"/> EIRP       |
| 4. SAR Measurement System           | <input checked="" type="checkbox"/> DASY3            | <input type="checkbox"/> IDX                        |                                     |
| Phantom Configuration               | <input type="checkbox"/> Left Head                   | <input checked="" type="checkbox"/> Flat Phantom    | <input type="checkbox"/> Right Head |
| 5. SAR Configuration                | <input type="checkbox"/> Head                        | <input checked="" type="checkbox"/> Body            | <input type="checkbox"/> Hand       |
| 6. Test Signal Call Mode            | <input checked="" type="checkbox"/> Manu. Test Codes | <input type="checkbox"/> Base Station Simulator     |                                     |
| 7. <sup>**</sup> Test Configuration | <input type="checkbox"/> With Holster                | <input checked="" type="checkbox"/> Without Holster |                                     |
8. Tissue parameters and temperatures are listed on the SAR plots.
  9. Both sides of the phone were tested and the worst-case side is reported.
  10. Liquid tissue depth is 15.1 cm. ± 0.1

  
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Figure 14.7 Body SAR Test Setup  
-- w/o Holster --