

# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Head SAR

Generic Twin Phantom; Left Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

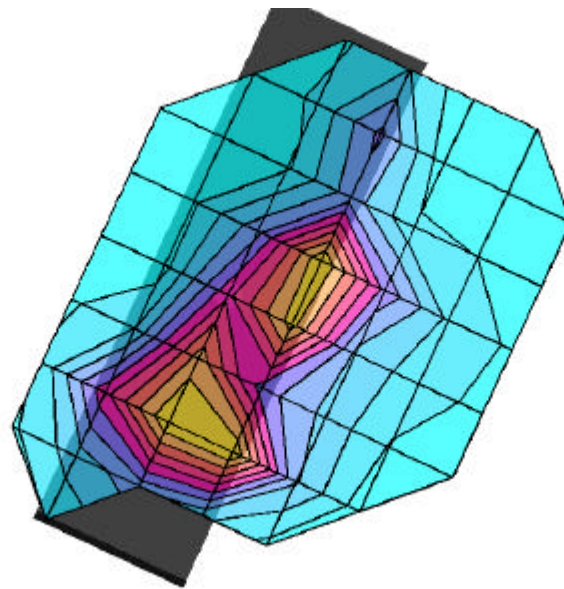
**SAR (1g): 0.852 mW/g, SAR (10g): 0.461 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

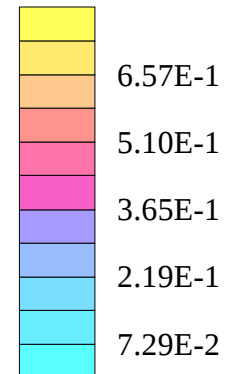
PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

Test Date -- 10/29/2001



SAR<sub>Tot</sub> [mW/g]



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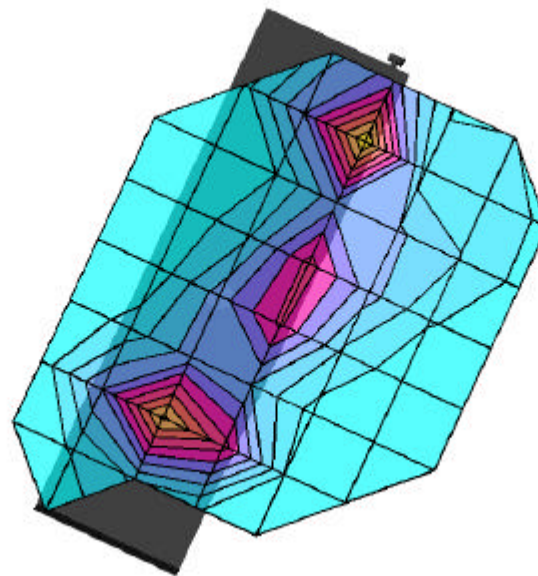
**SAR (1g): 1.36 mW/g, SAR (10g): 0.690 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

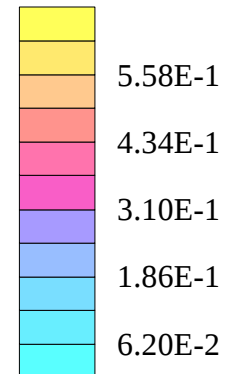
PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

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SAR<sub>Tot</sub> [mW/g]



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Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

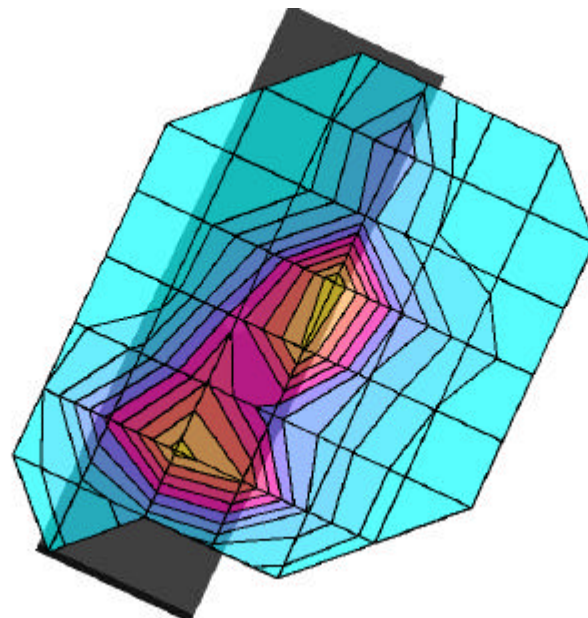
**SAR (1g): 1.29 mW/g, SAR (10g): 0.695 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

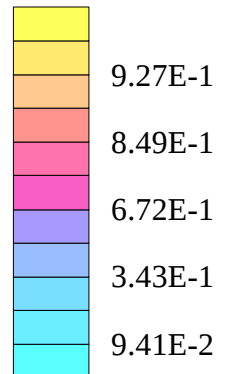
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

Test Date -- 10/29/2001



SAR<sub>Tot</sub> [mW/g]



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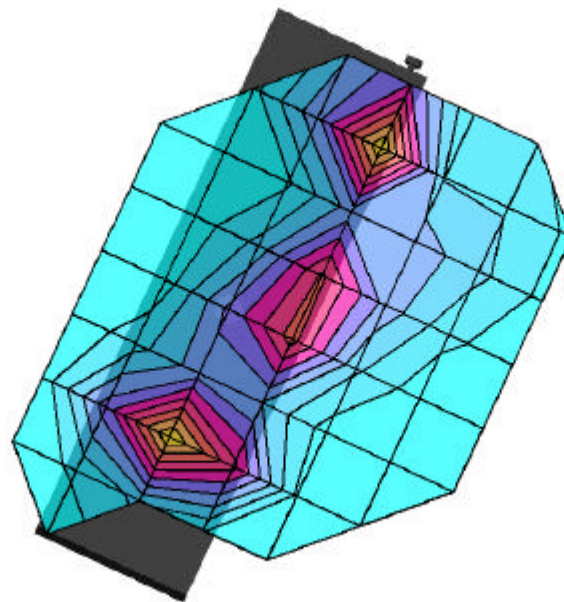
**SAR (1g): 0.369 mW/g**, SAR (10g): 0.186 mW/g

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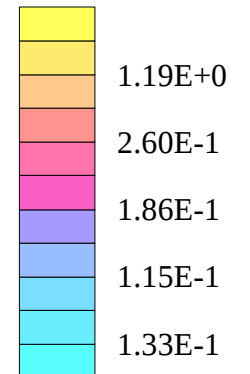
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery

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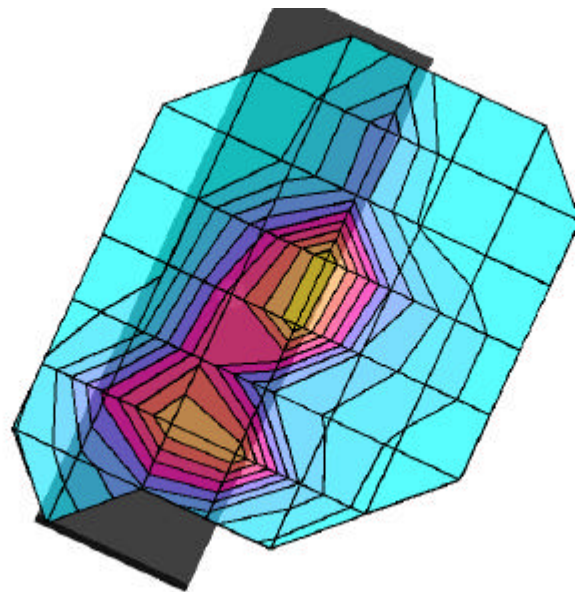
**SAR (1g): 1.27 mW/g, SAR (10g): 0.681 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

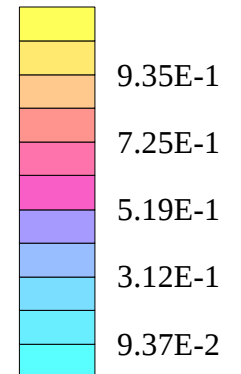
PCS CDMA Mode, Ch.1175 [1908.75MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

Test Date -- 10/29/2001



SAR<sub>Tot</sub> [mW/g]



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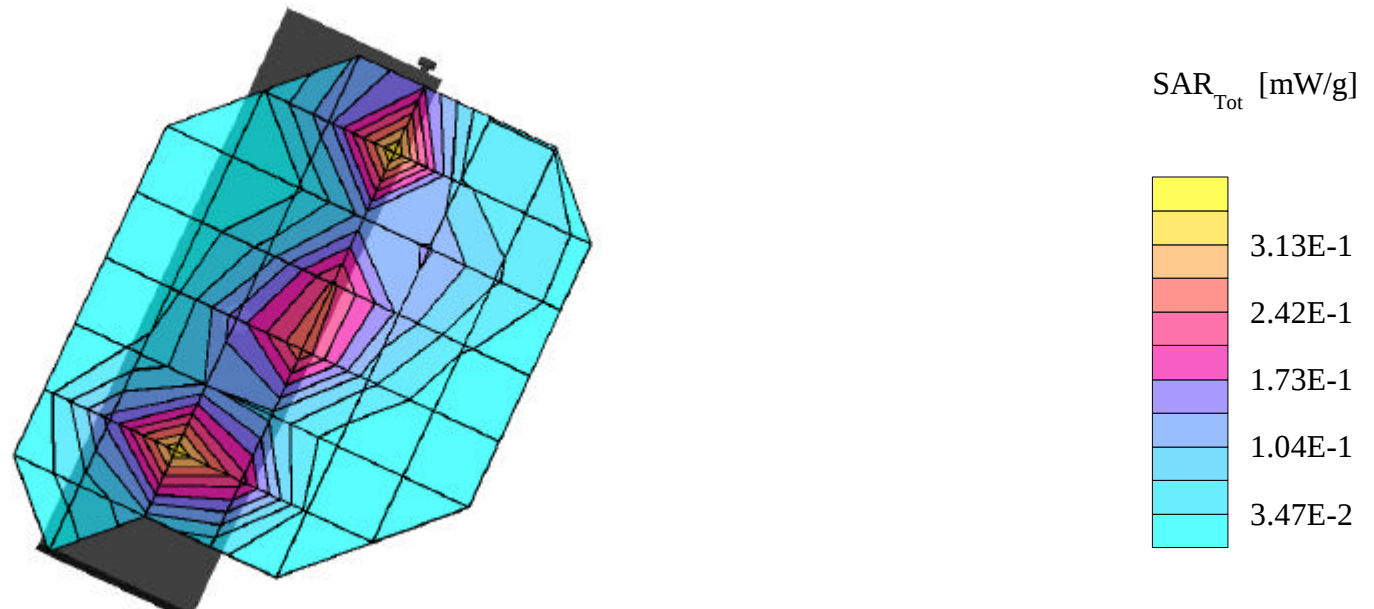
**SAR (1g): 0.351 mW/g, SAR (10g): 0.175 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.1175 [1908.75MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

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Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

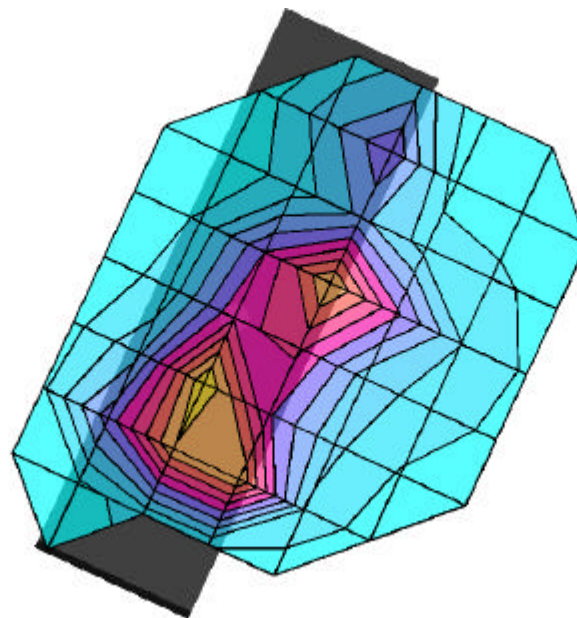
**SAR (1g): 0.844 mW/g, SAR (10g): 0.499 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

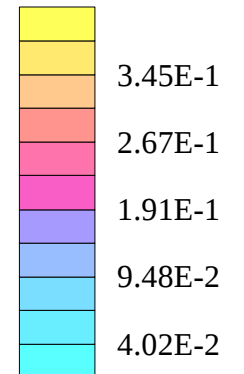
PCS CDMA Mode, Ch.0025[1851.25MHz]; Standard Battery

Conducted Power = 25.5dBm; Left Head Phantom, Cheek/Touch position

Test Date -- 10/29/2001



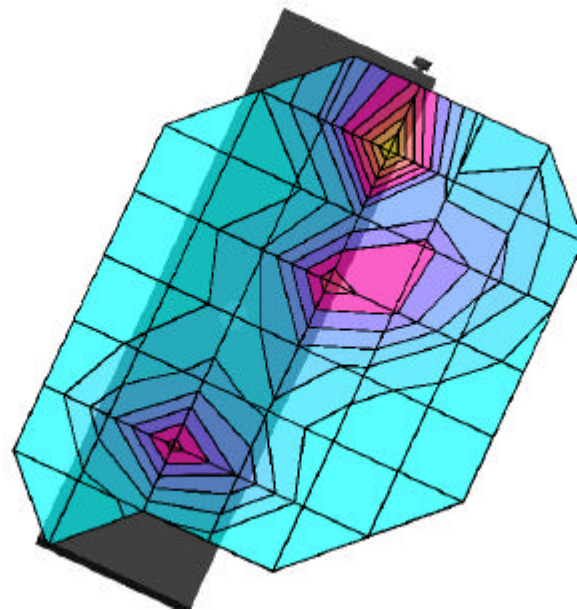
SAR<sub>Tot</sub> [mW/g]



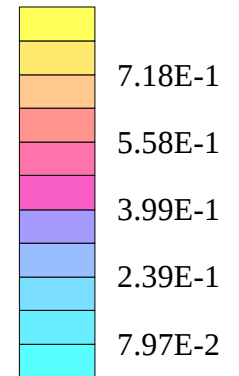
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Generic Twin Phantom; Left Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01  
Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0  
**SAR (1g): 1.28 mW/g, SAR (10g): 0.656 mW/g**

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PCS CDMA Mode, Ch.0025 [1851.25MHz]; Standard Battery  
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SAR<sub>Tot</sub> [mW/g]



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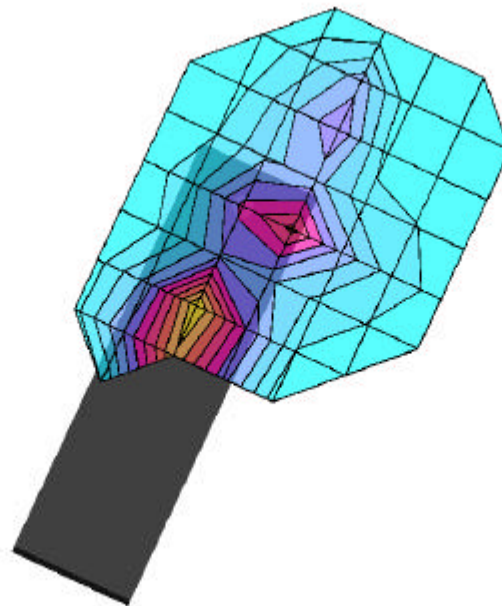
**SAR (1g): 0.251 mW/g, SAR (10g): 0.144 mW/g**

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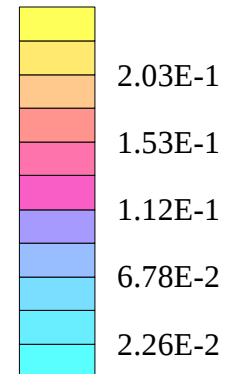
PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Ear/15degree Tilt position

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SAR<sub>Tot</sub> [mW/g]



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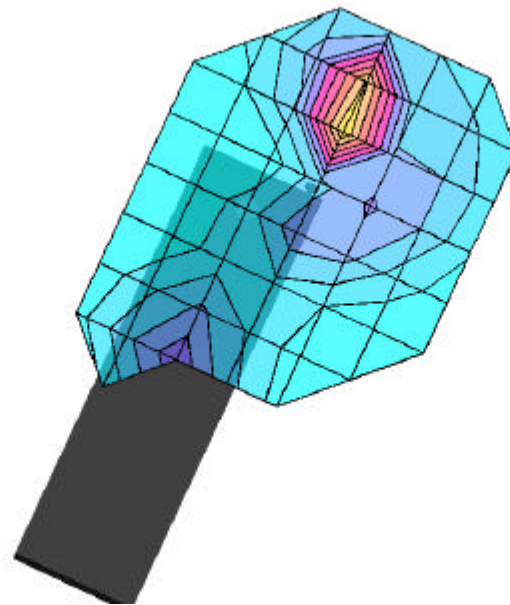
**SAR (1g): 1.02 mW/g, SAR (10g): 0.470 mW/g**

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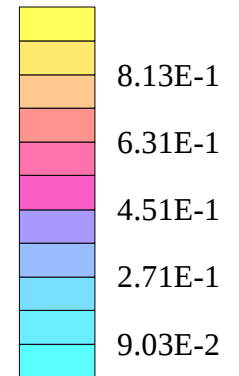
PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery

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SAR<sub>Tot</sub> [mW/g]



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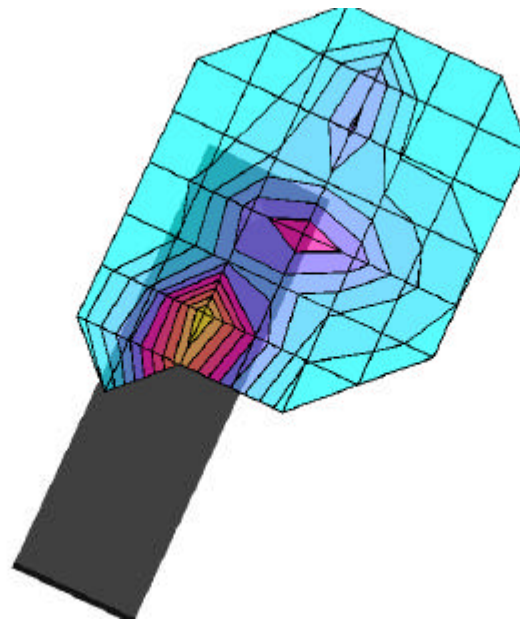
**SAR (1g): 0.899 mW/g, SAR (10g): 0.511 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

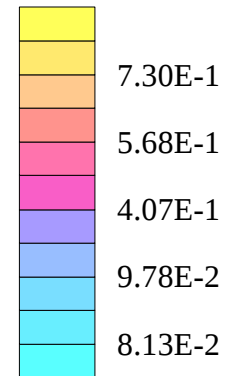
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Ear/15degree Tilt position

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SAR<sub>Tot</sub> [mW/g]



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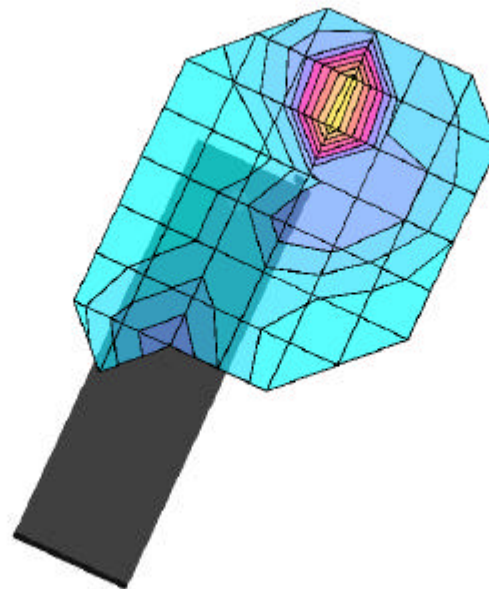
**SAR (1g): 0.240 mW/g**, SAR (10g): 0.118 mW/g

SAMSUNG TriMode Phone Model:SPH-A450

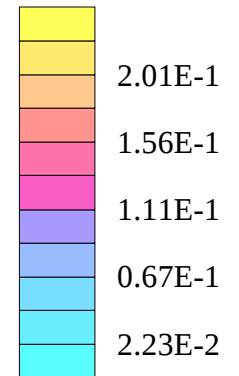
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery

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SAR<sub>Tot</sub> [mW/g]



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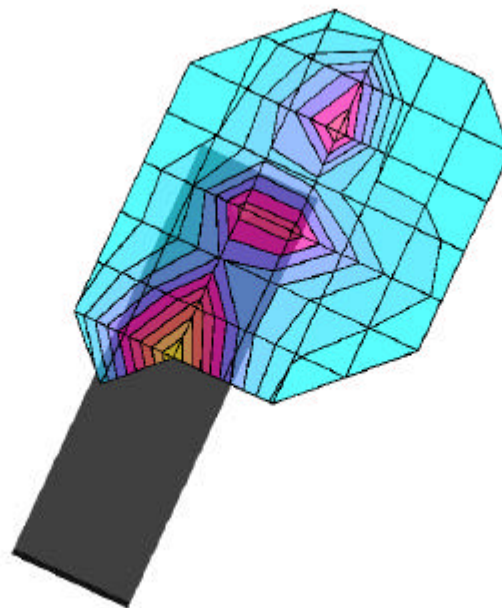
**SAR (1g): 0.872 mW/g, SAR (10g): 0.508 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

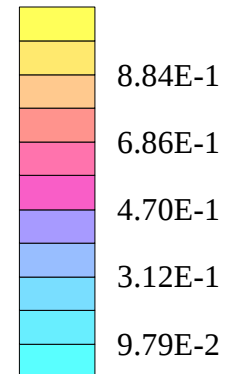
PCS CDMA Mode, Ch.1175 [1908.75MHz]; Extended Battery

Conducted Power = 25.5dBm; Left Head Phantom, Ear/15degree Tilt position

Test Date -- 10/29/2001



SAR<sub>Tot</sub> [mW/g]



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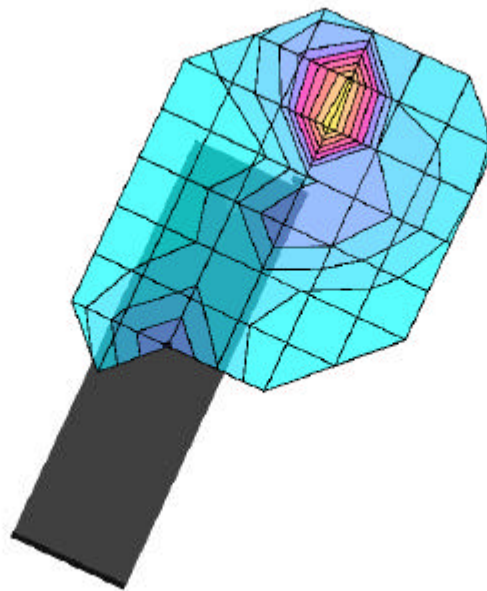
**SAR (1g): 0.248 mW/g, SAR (10g): 0.120 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

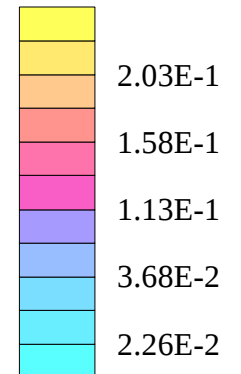
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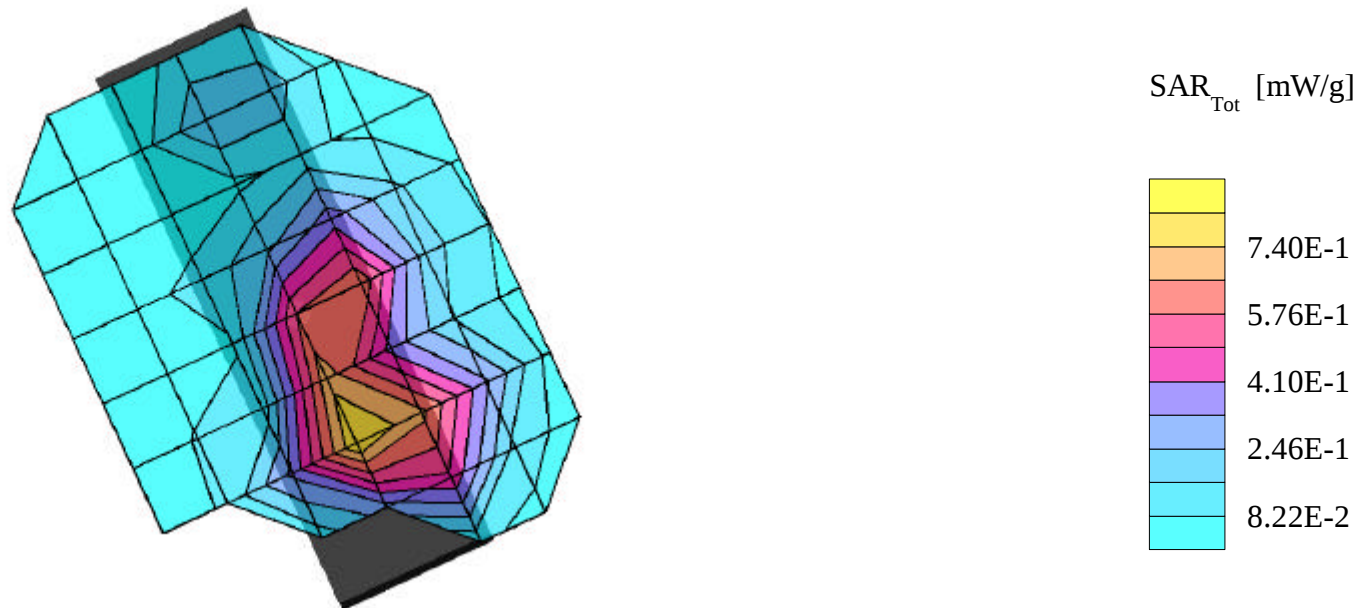
SAR<sub>Tot</sub> [mW/g]



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**SAR (1g): 0.840 mW/g**, SAR (10g): 0.497 mW/g

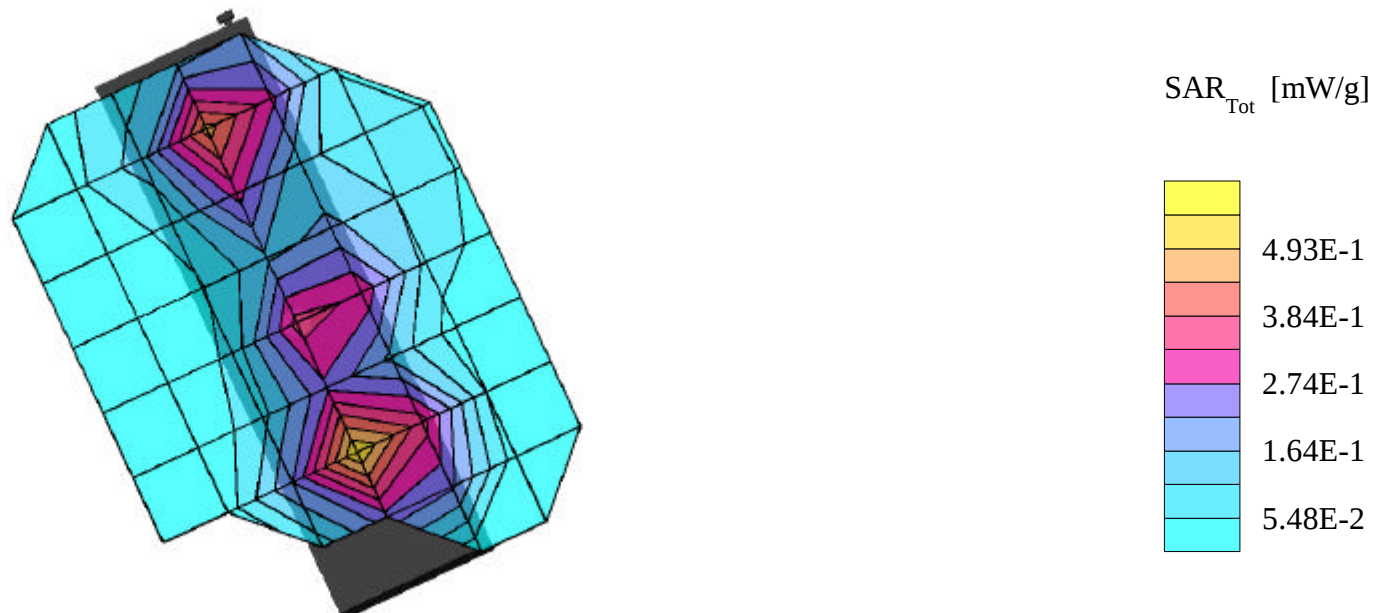
SAMSUNG TriMode Phone Model:SPH-A450  
PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery  
Conducted Power = 25.5dBm; Right Head Phantom, Cheek/Touch position  
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**SAR (1g): 1.29 mW/g, SAR (10g): 0.747 mW/g**

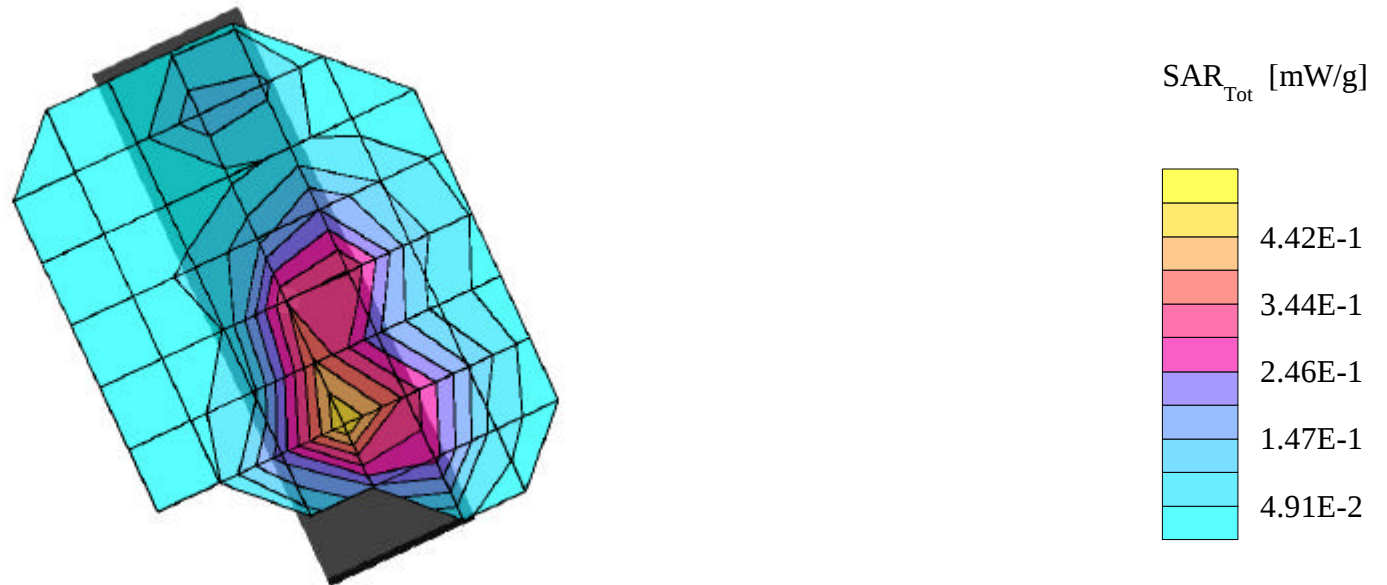
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**SAR (1g): 1.20 mW/g, SAR (10g): 0.682 mW/g**

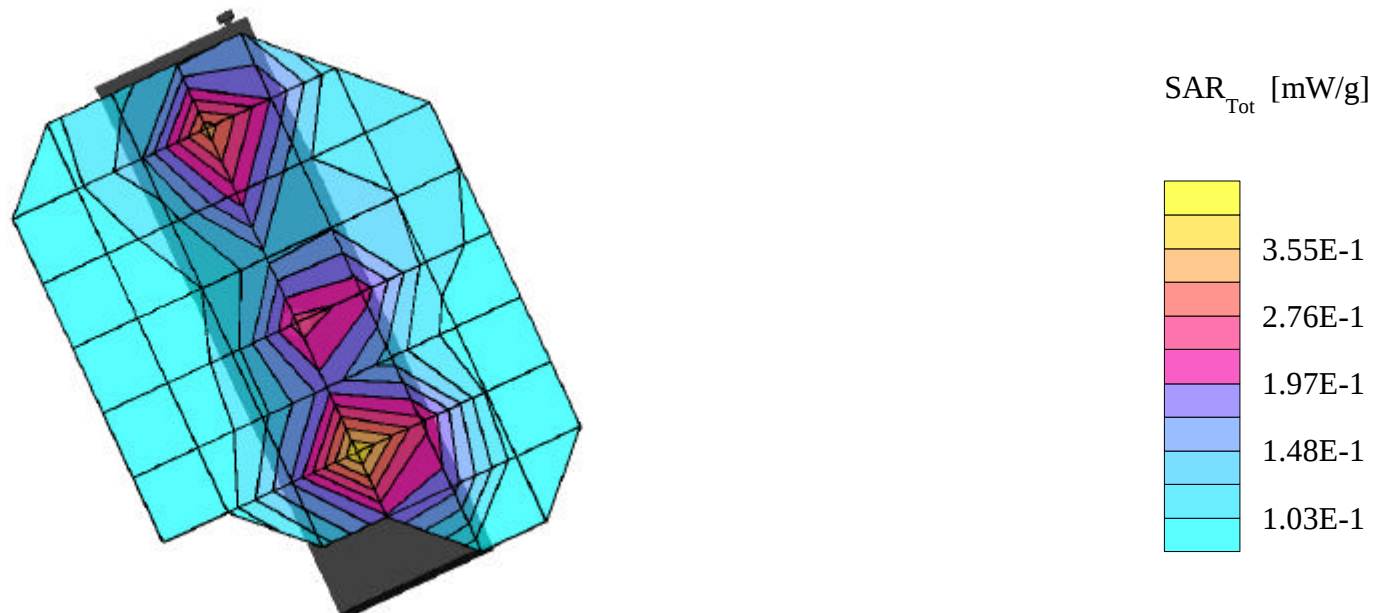
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**SAR (1g): 0.401 mW/g, SAR (10g): 0.232 mW/g**

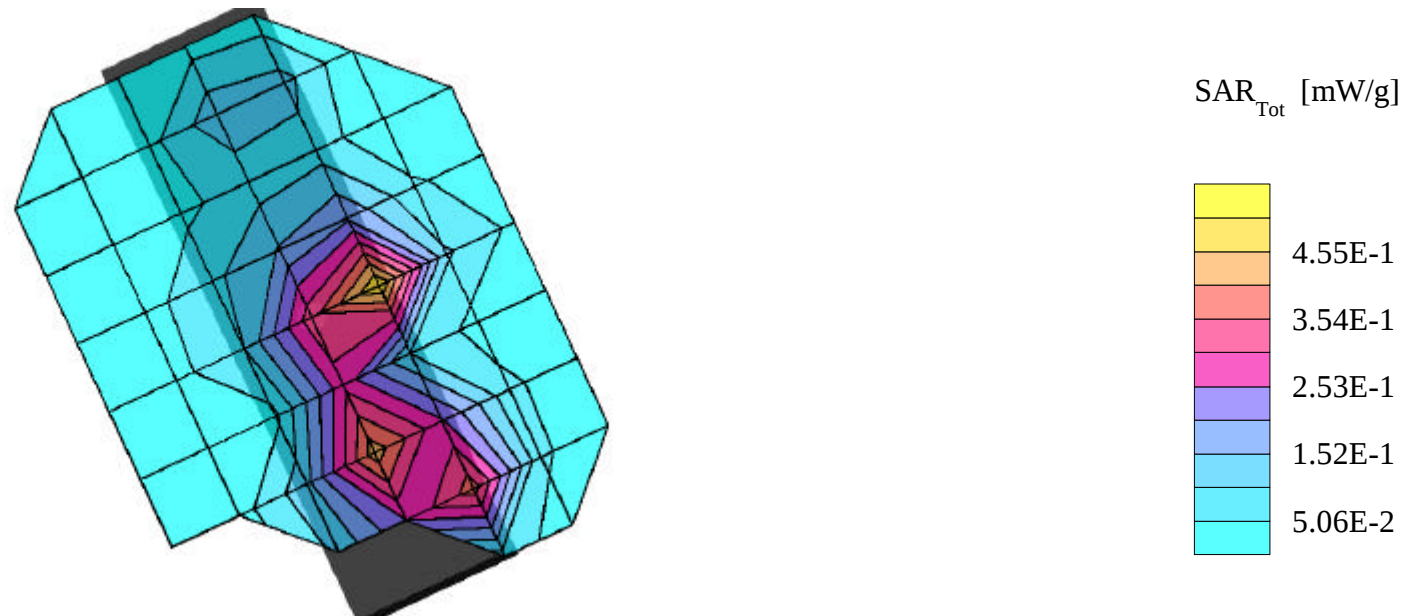
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**SAR (1g): 1.14 mW/g, SAR (10g): 0.623 mW/g**

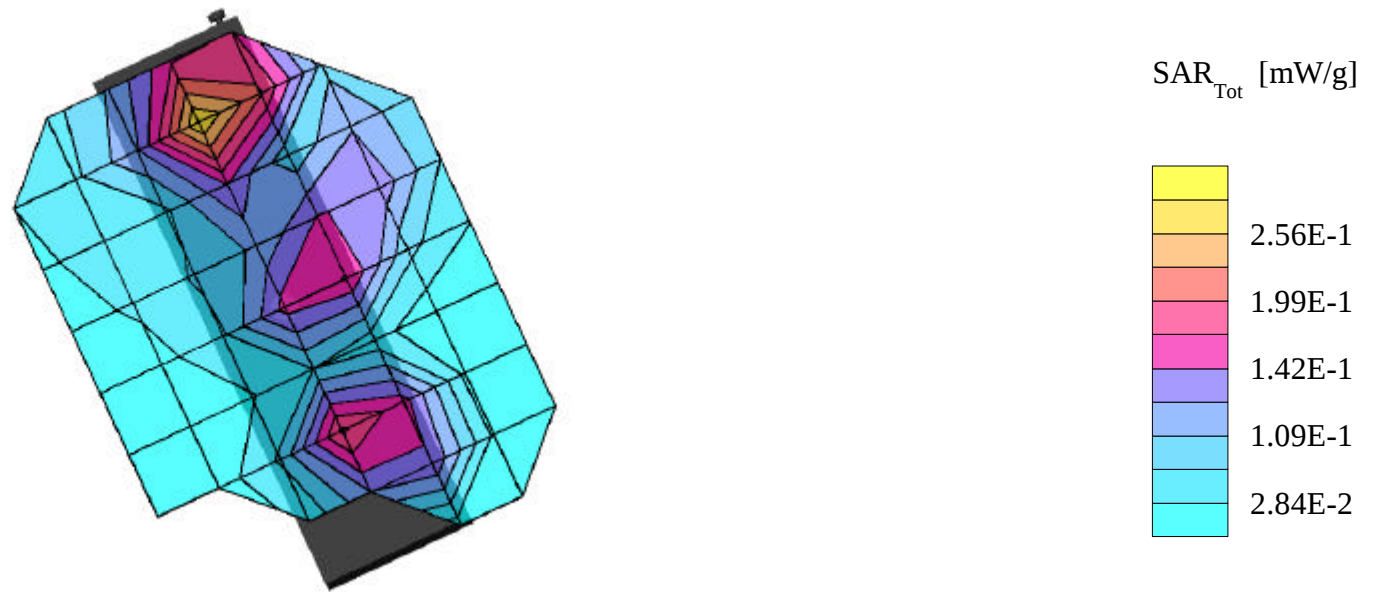
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**SAR (1g): 0.340 mW/g, SAR (10g): 0.181 mW/g**

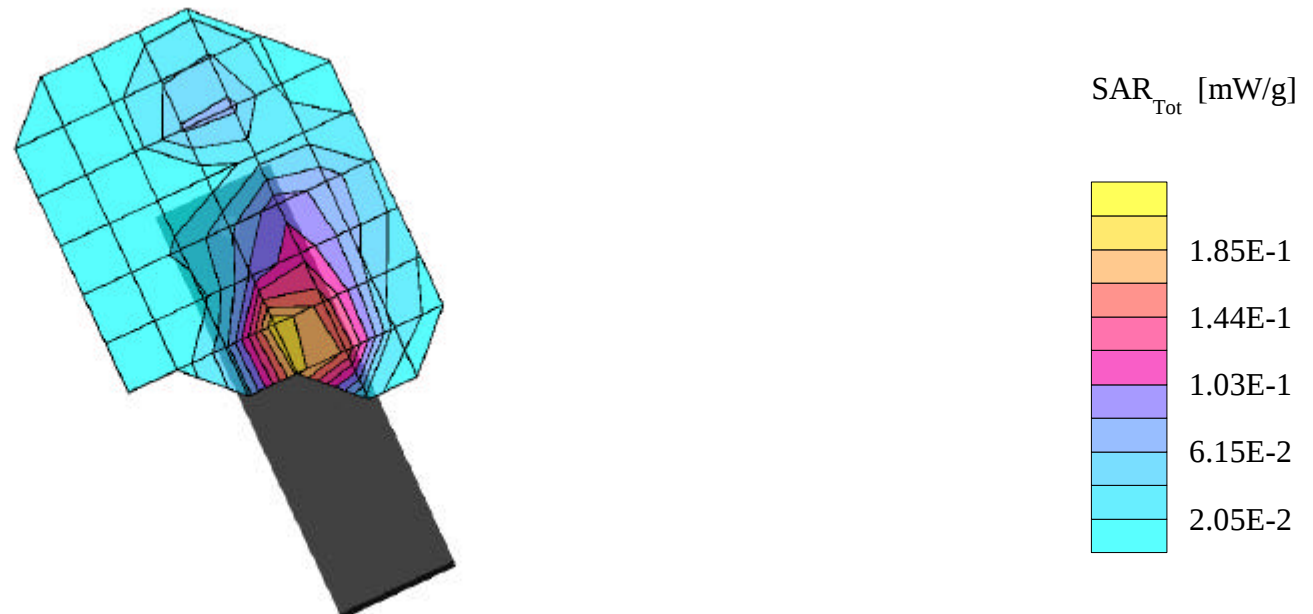
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**SAR (1g): 0.244 mW/g, SAR (10g): 0.141 mW/g**

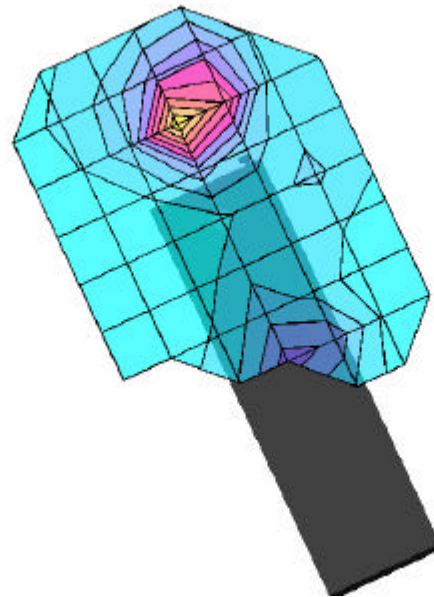
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PCS CDMA Mode, Ch.0025 [1851.25MHz]; Extended Battery  
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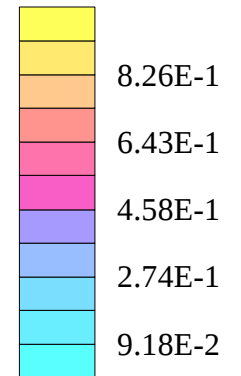
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**SAR (1g): 0.989 mW/g, SAR (10g): 0.539 mW/g**

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Conducted Power = 25.5dBm; Right Head Phantom, Ear/15degree Tilt position  
Test Date -- 10/29/2001



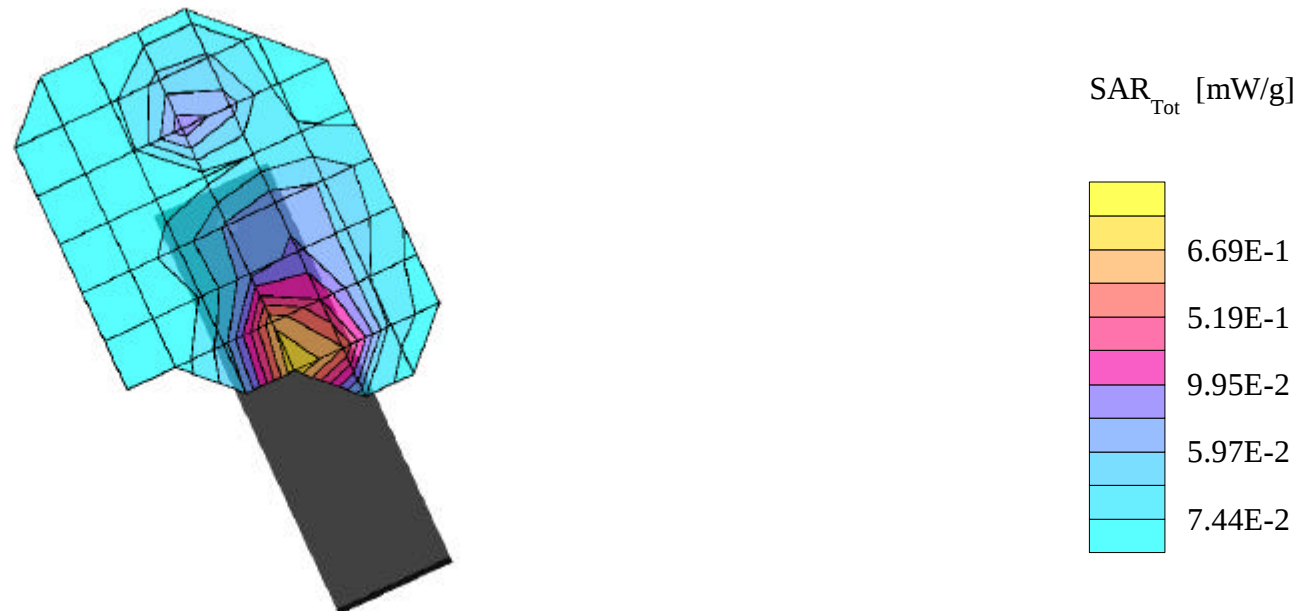
SAR<sub>Tot</sub> [mW/g]



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Head SAR

Generic Twin Phantom; Right Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01  
Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0  
**SAR (1g): 0.850 mW/g, SAR (10g): 0.482 mW/g**

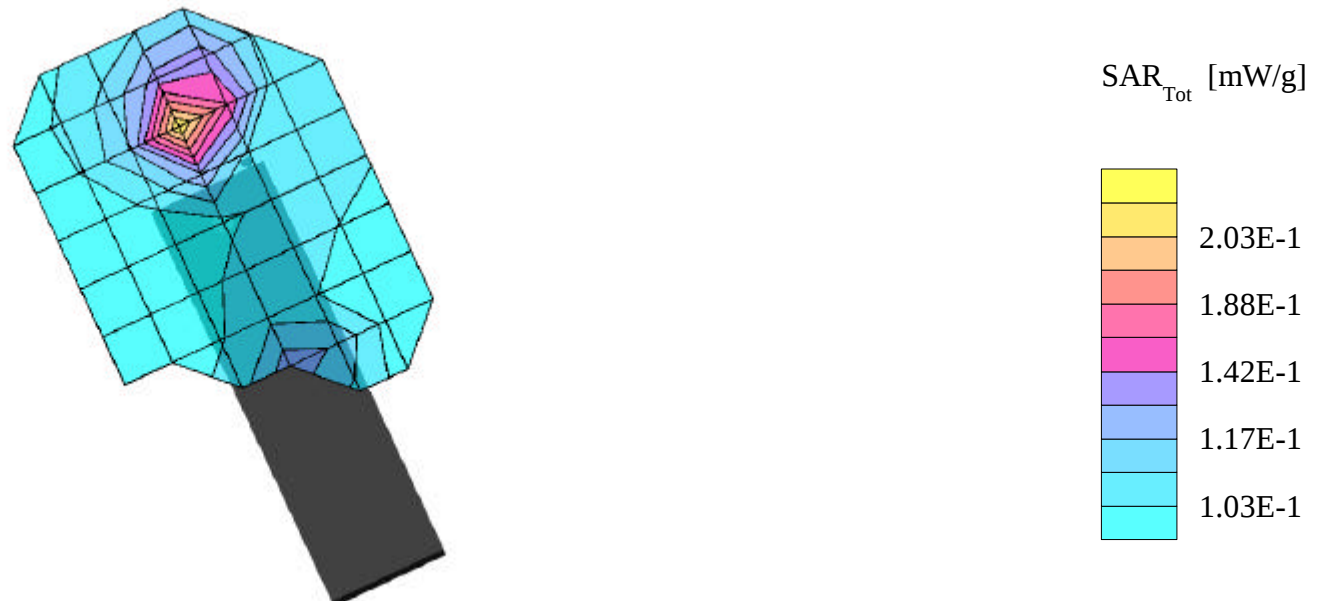
SAMSUNG TriMode Phone Model:SPH-A450  
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery  
Conducted Power = 25.5dBm; Right Head Phantom, Ear/15degree Tilt position  
Test Date -- 10/29/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Head SAR

Generic Twin Phantom; Right Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01  
Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0  
**SAR (1g): 0.228 mW/g, SAR (10g): 0.125 mW/g**

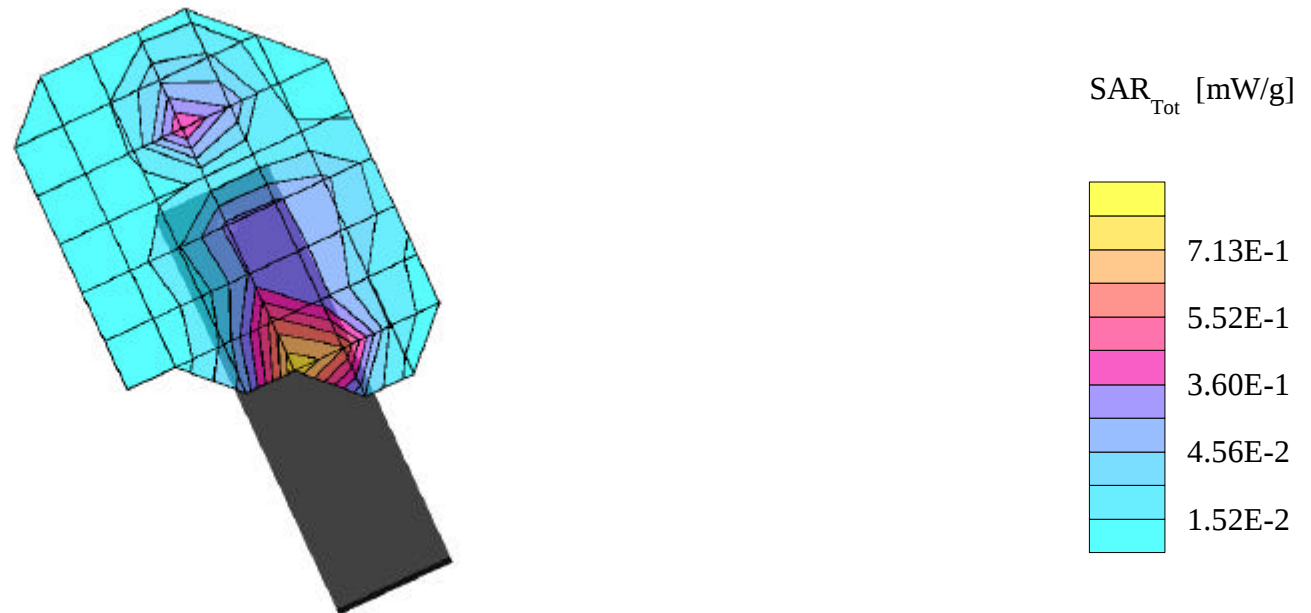
SAMSUNG TriMode Phone Model:SPH-A450  
PCS CDMA Mode, Ch.0600 [1880.00MHz]; Extended Battery  
Conducted Power = 25.5dBm; Right Head Phantom, Ear/15degree Tilt position  
Test Date -- 10/29/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Head SAR

Generic Twin Phantom; Right Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01  
Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0  
**SAR (1g): 0.860 mW/g, SAR (10g): 0.492 mW/g**

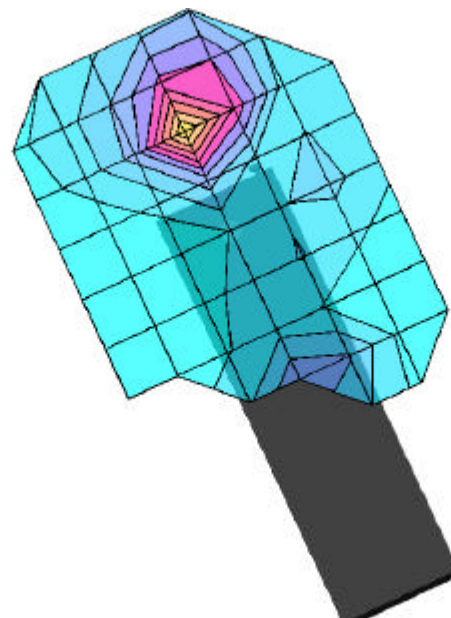
SAMSUNG TriMode Phone Model:SPH-A450  
PCS CDMA Mode, Ch.1175 [1908.75MHz]; Extended Battery  
Conducted Power = 25.5dBm; Right Head Phantom, Ear/15degree Tilt position  
Test Date -- 10/29/2001



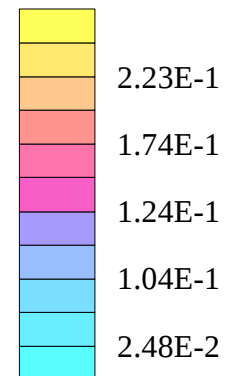
# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Head SAR

Generic Twin Phantom; Right Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01  
Med. Parameters 1900 MHz Brain:  $\sigma = 1.62$  mho/m  $\epsilon_r = 40.0$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0  
**SAR (1g): 0.251 mW/g, SAR (10g): 0.138 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450  
PCS CDMA Mode, Ch.1175 [1908.75MHz]; Extended Battery  
Conducted Power = 25.5dBm; Right Head Phantom, Ear/15degree Tilt position  
Test Date -- 10/29/2001



SAR<sub>Tot</sub> [mW/g]



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

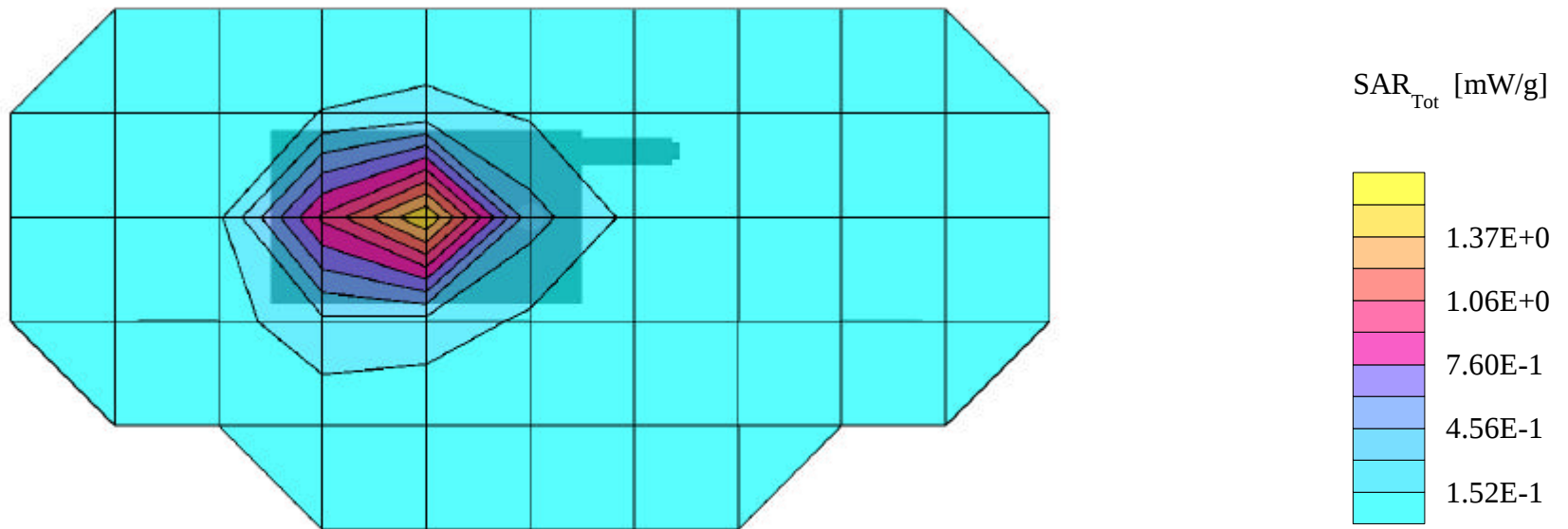
**SAR (1g): 1.03 mW/g, SAR (10g): 0.629 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0025 [1851.25MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0

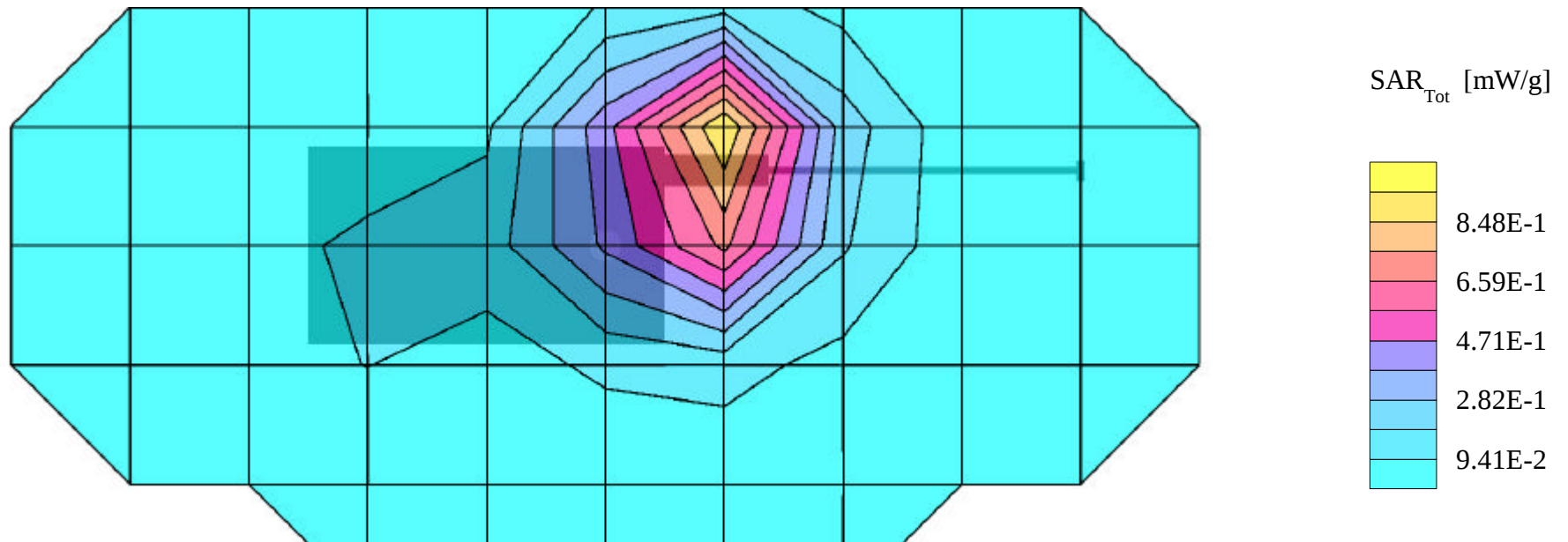
**SAR (1g): 1.15 mW/g, SAR (10g): 0.691 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0025 [1851.25MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

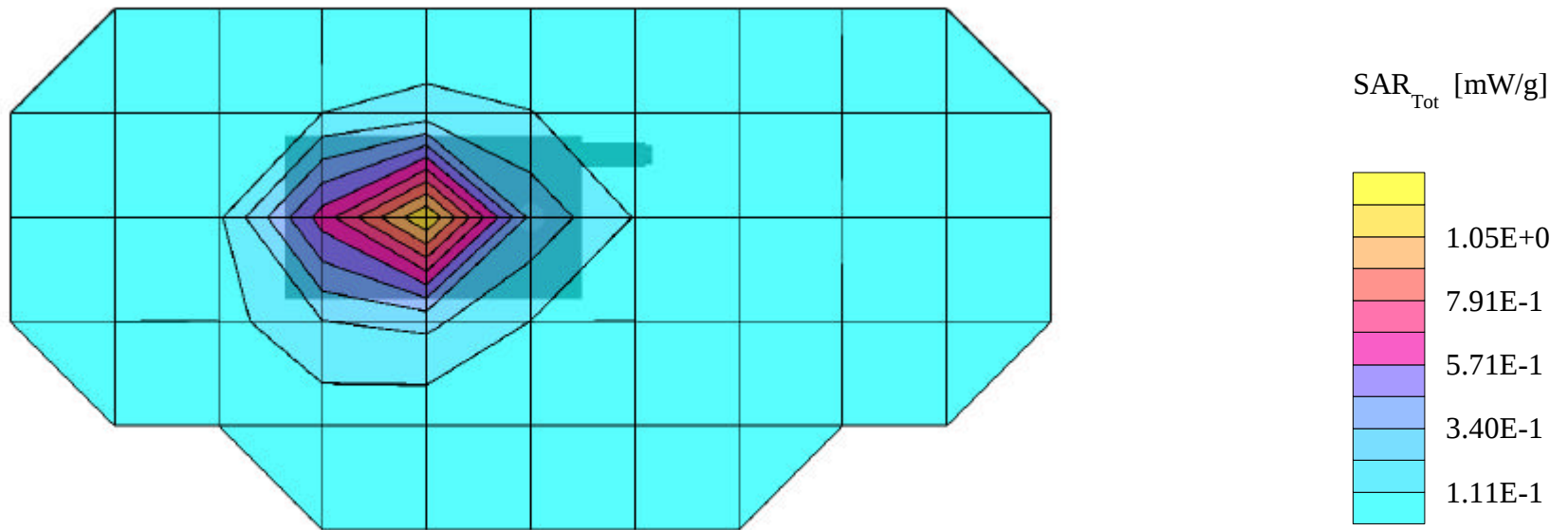
**SAR (1g): 1.15 mW/g, SAR (10g): 0.697 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0600 [1880.00MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0

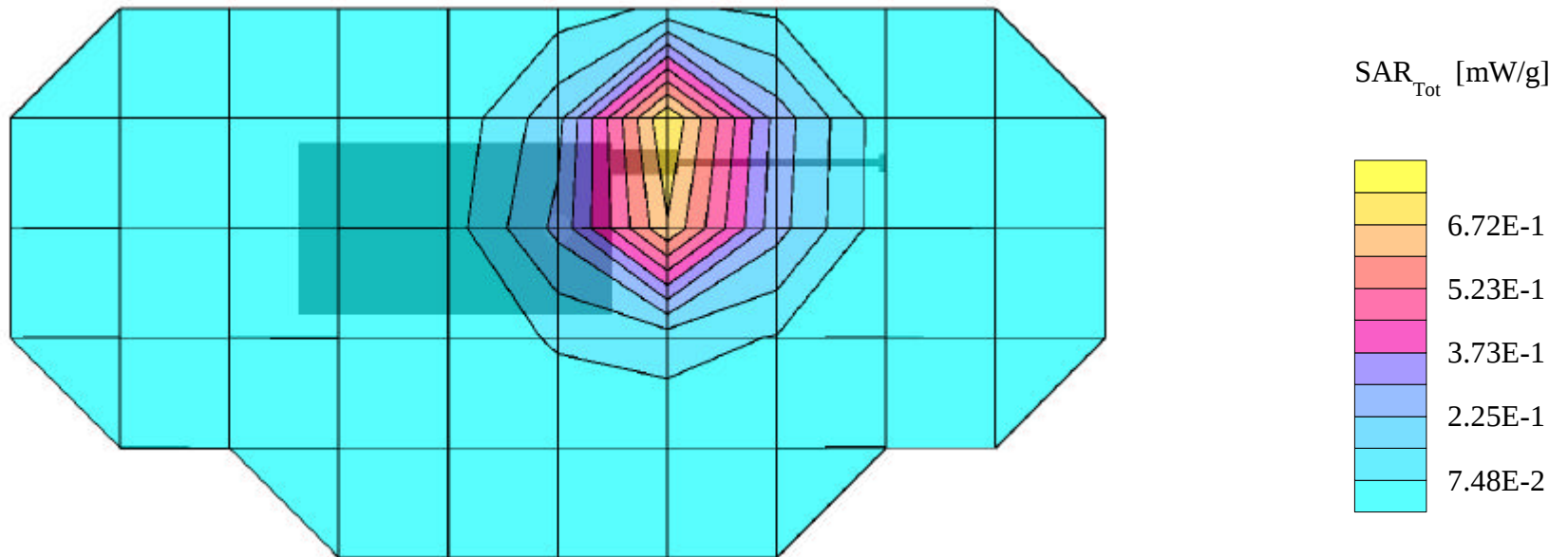
**SAR (1g): 1.23 mW/g, SAR (10g): 0.727 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0600 [1880.00MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

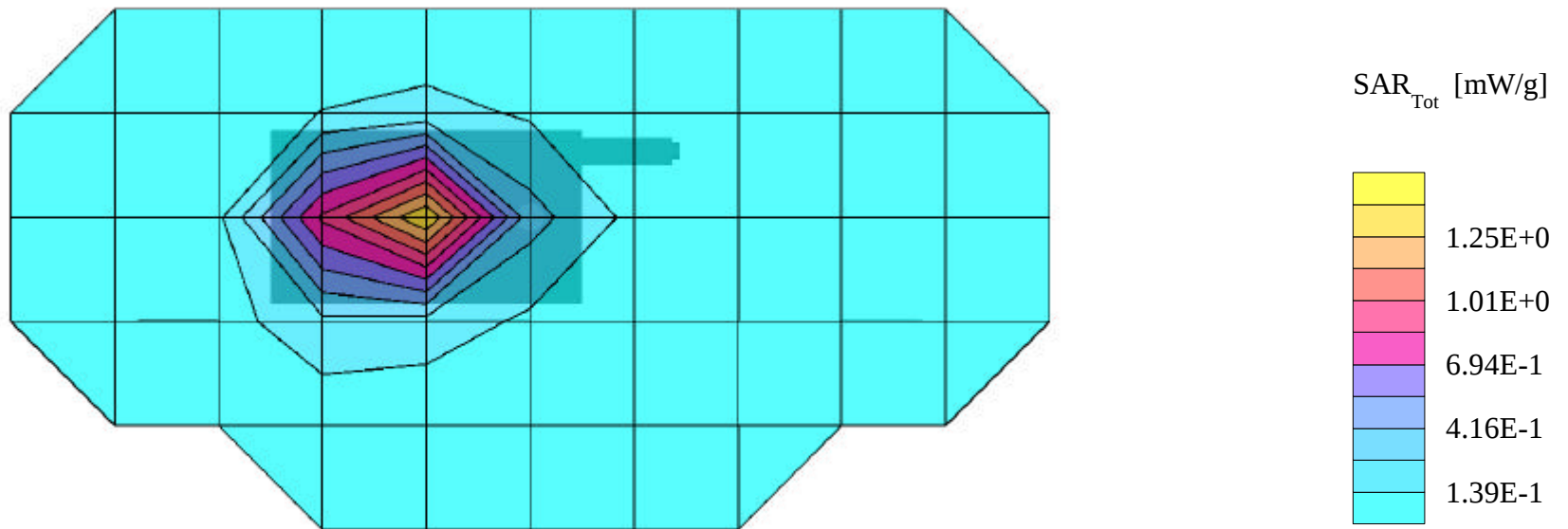
**SAR (1g): 1.02 mW/g, SAR (10g): 0.624 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.1175 [1908.75MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0

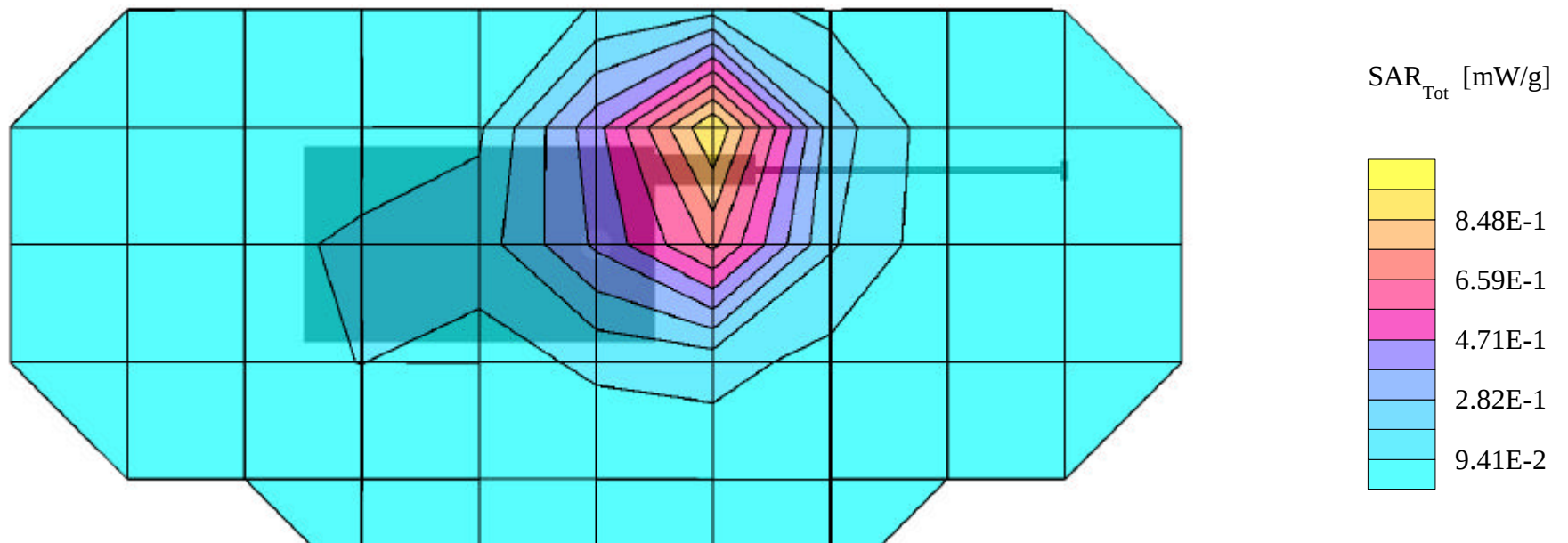
**SAR (1g): 1.19 mW/g, SAR (10g): 0.714 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.1175 [1908.75MHz]; Flat Phantom; Extended Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- In; Crest Factor 1.0

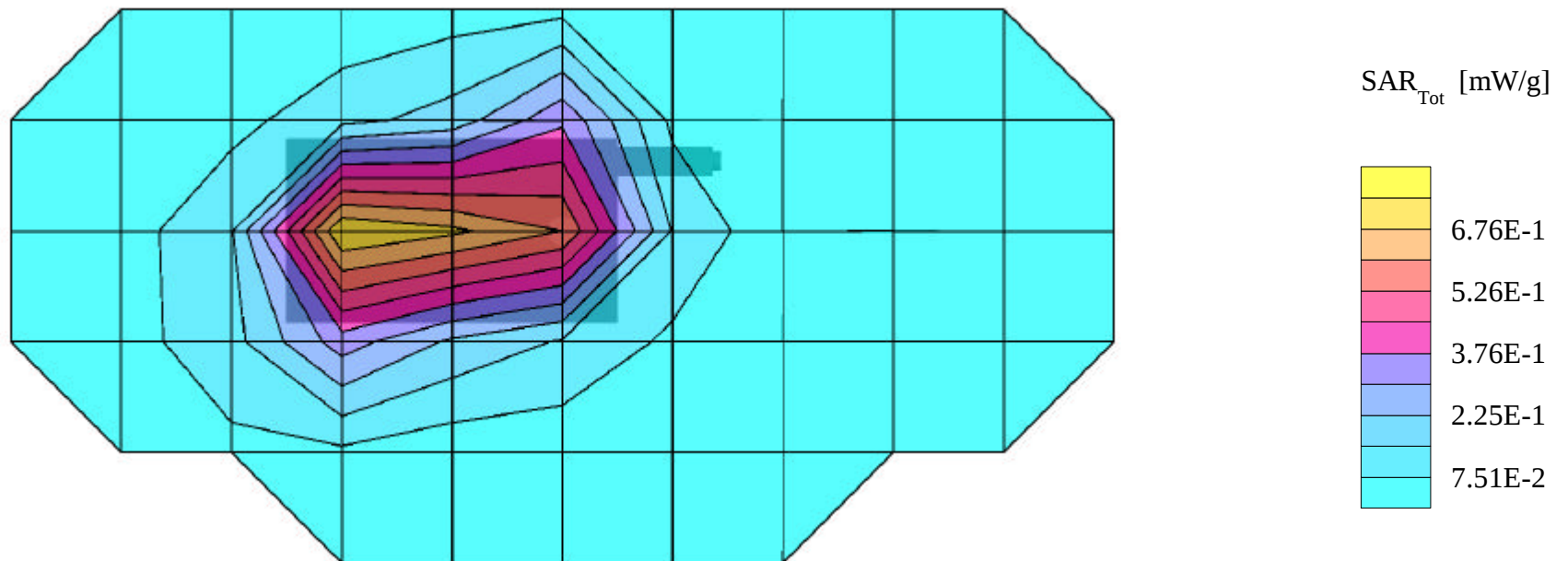
**SAR (1g): 0.997 mW/g, SAR (10g): 0.610 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0600 [1880.00MHz]; Flat Phantom; Standard Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001



# SAMSUNG FCC ID:A3LSPHA450 -- PCS CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 1900 MHz Muscle:  $\sigma = 1.52$  mho/m  $\epsilon_r = 53.3$   $\rho = 1.00$  g/cm<sup>3</sup>; Antenna Position -- Out; Crest Factor 1.0

**SAR (1g): 1.20 mW/g, SAR (10g): 0.721 mW/g**

SAMSUNG TriMode Phone Model:SPH-A450

PCS CDMA Mode, Ch.0600 [1880.00MHz]; Flat Phantom; Standard Battery

Conducted Power = 25.5dBm; Spacing = 2.0cm from flat phantom to phone, NO BeltClip/NO Holster

Test Date -- 10/30/2001

