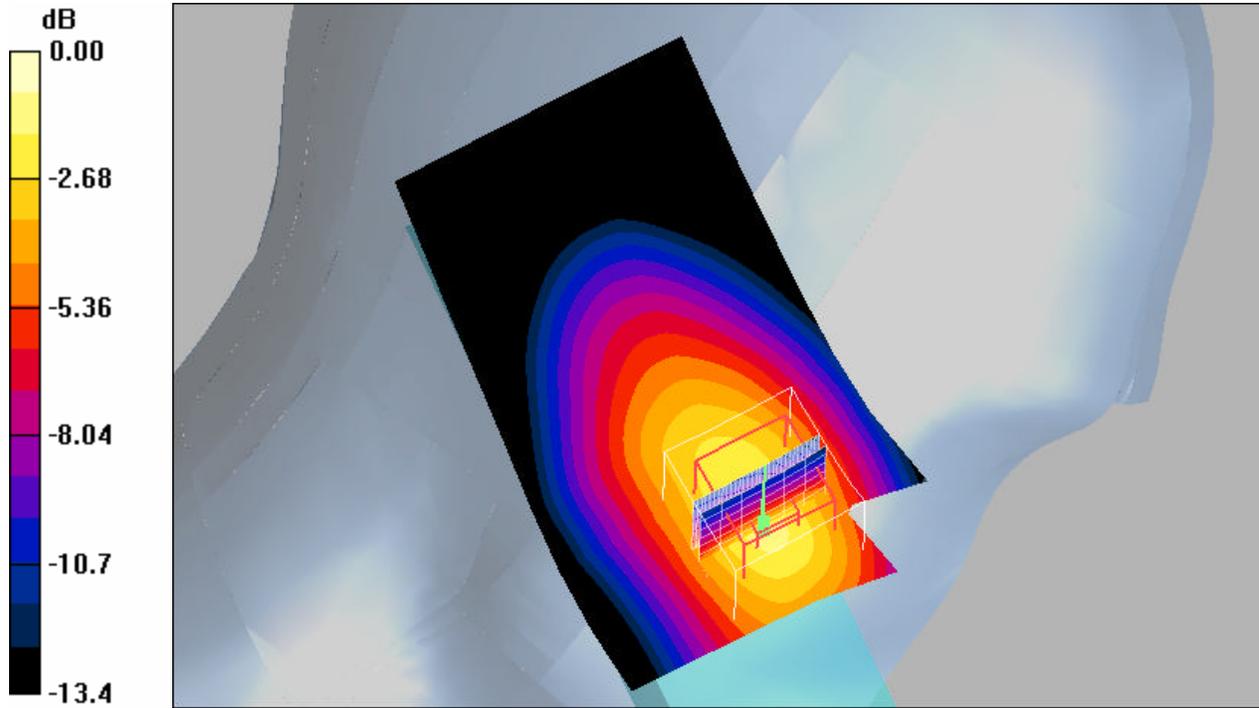
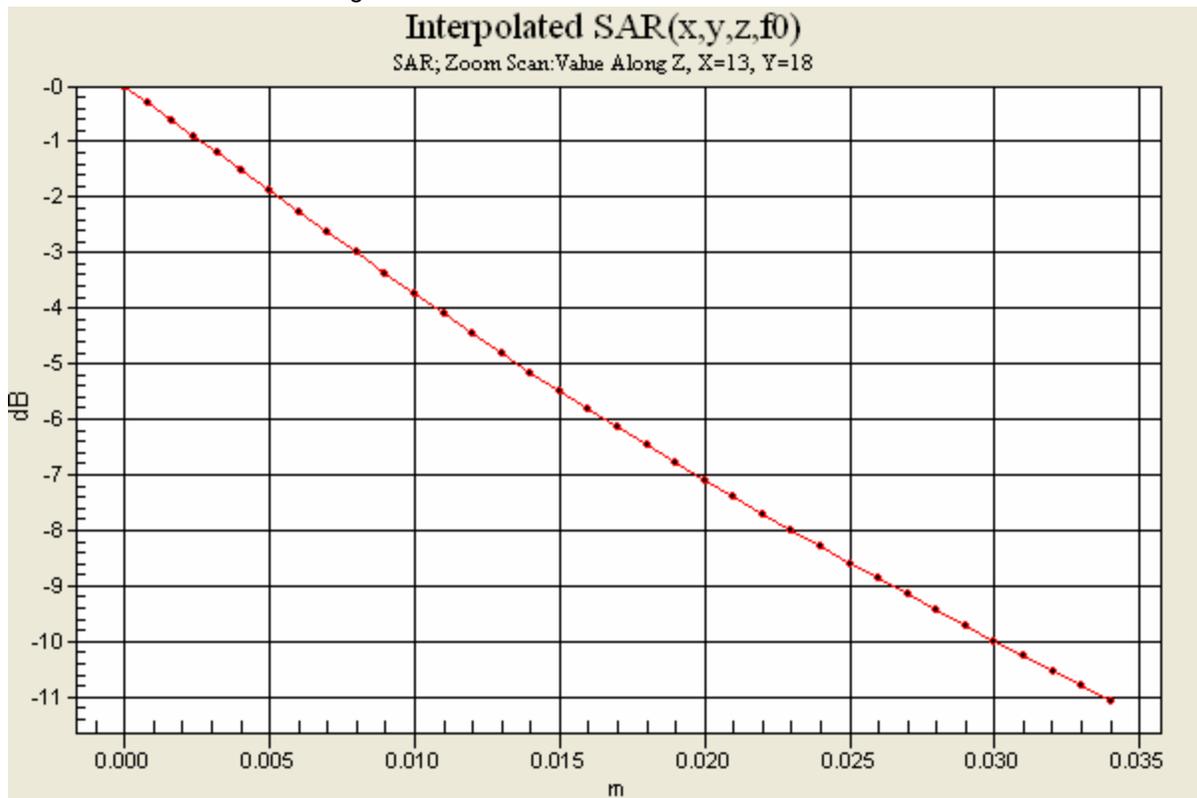




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0 dB = 0.788mW/g





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**900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section,, Closed Position.**

Date/Time: 2/1/2006 9:46:16 AM

File Name: [01Feb06_Z525A_GSM900_JHY5_closed_PTT01.da4](#)

DUT: Z525A

Program Notes: Battery: BST-37

Humidity: 31.1% Ambient Temp: 24.7 C Simulant Temp: 24.6 C

Communication System: GSM 900; Frequency: 890.2 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 890.2 MHz; s = 0.944 mho/m; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (61x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.060 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.99 V/m; Power Drift = 0.101 dB

Peak SAR (extrapolated) = 0.075 W/kg

SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.040 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.060 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

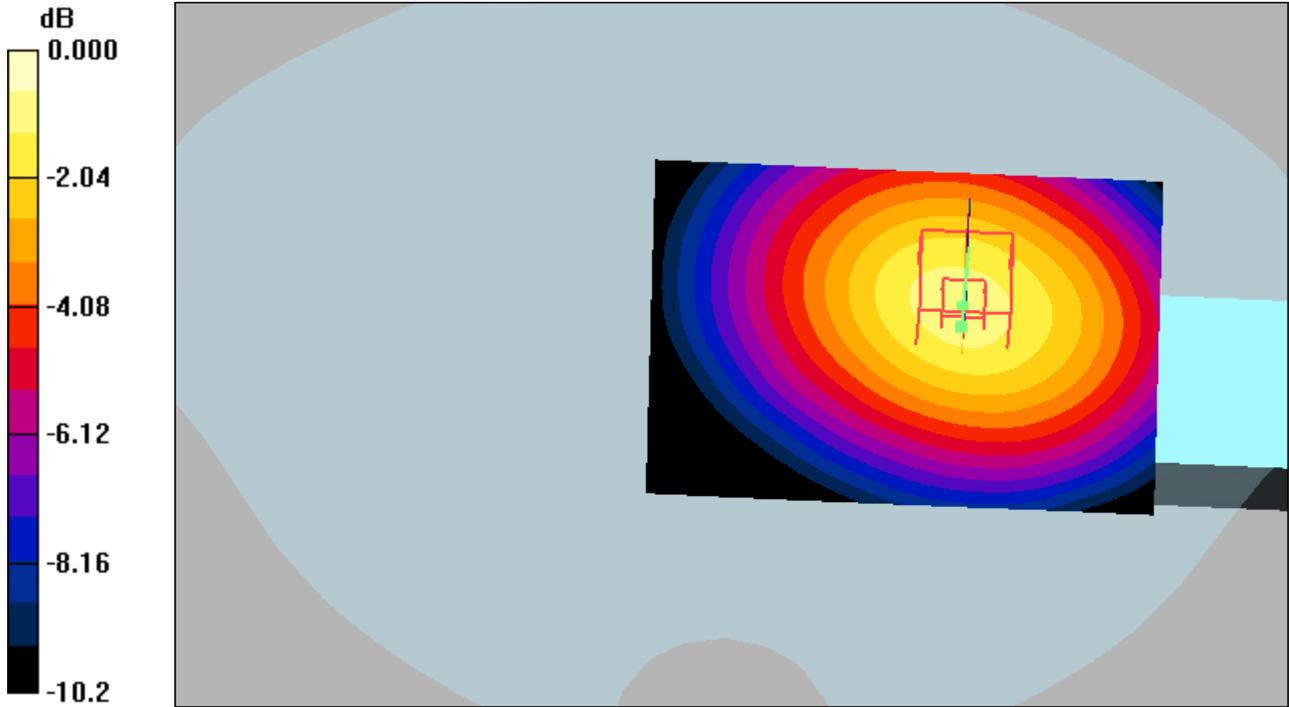
Reference Value = 3.99 V/m; Power Drift = 0.101 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

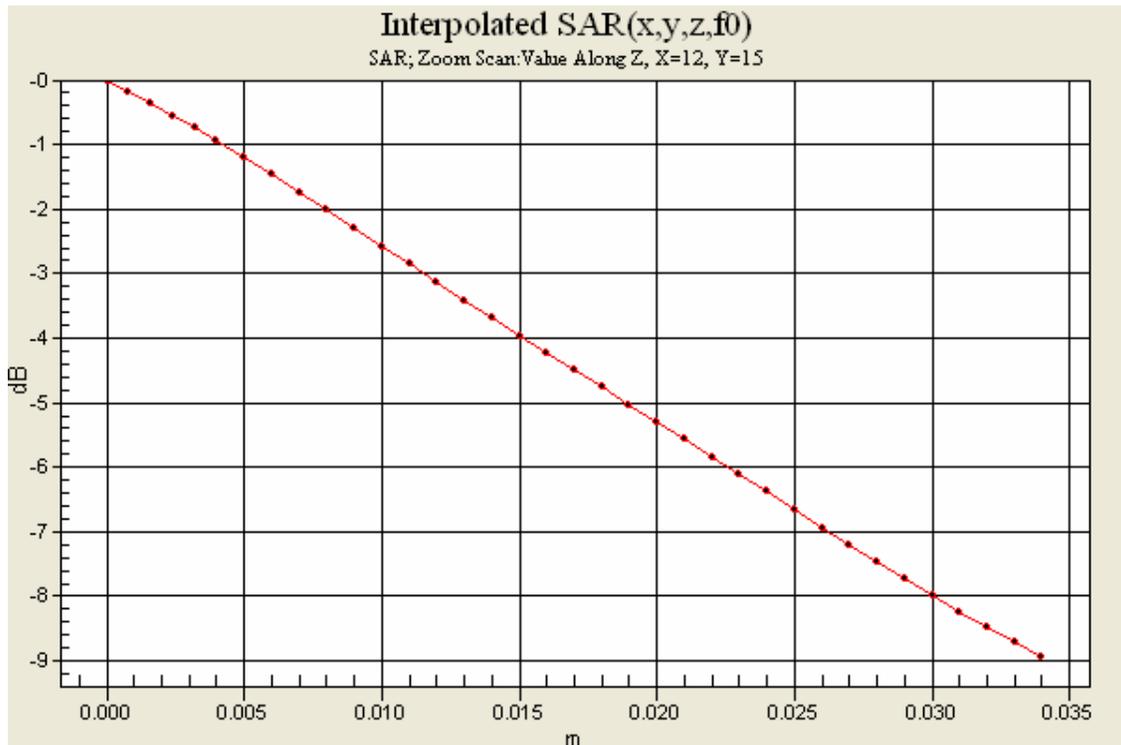
Maximum value of SAR (interpolated) = 0.075 mW/g



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0 dB = 0.075mW/g





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**900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Closed Position with Bluetooth on.**

Date/Time: 2/1/2006 11:00:47 AM

File Name: [01Feb06 Z525A GSM900 JHY5 closed BT PTT01.da4](#)

DUT: Z525A

Program Notes: Battery: BST-37

Humidity: 31.1% Ambient Temp: 24.7 C Simulant Temp: 24.6 C

Communication System: GSM 900; Frequency: 890.2 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 890.2 MHz; s = 0.944 mho/m; $\epsilon_r = 40.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (61x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.059 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.42 V/m; Power Drift = -0.056 dB

Peak SAR (extrapolated) = 0.072 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.039 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.059 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

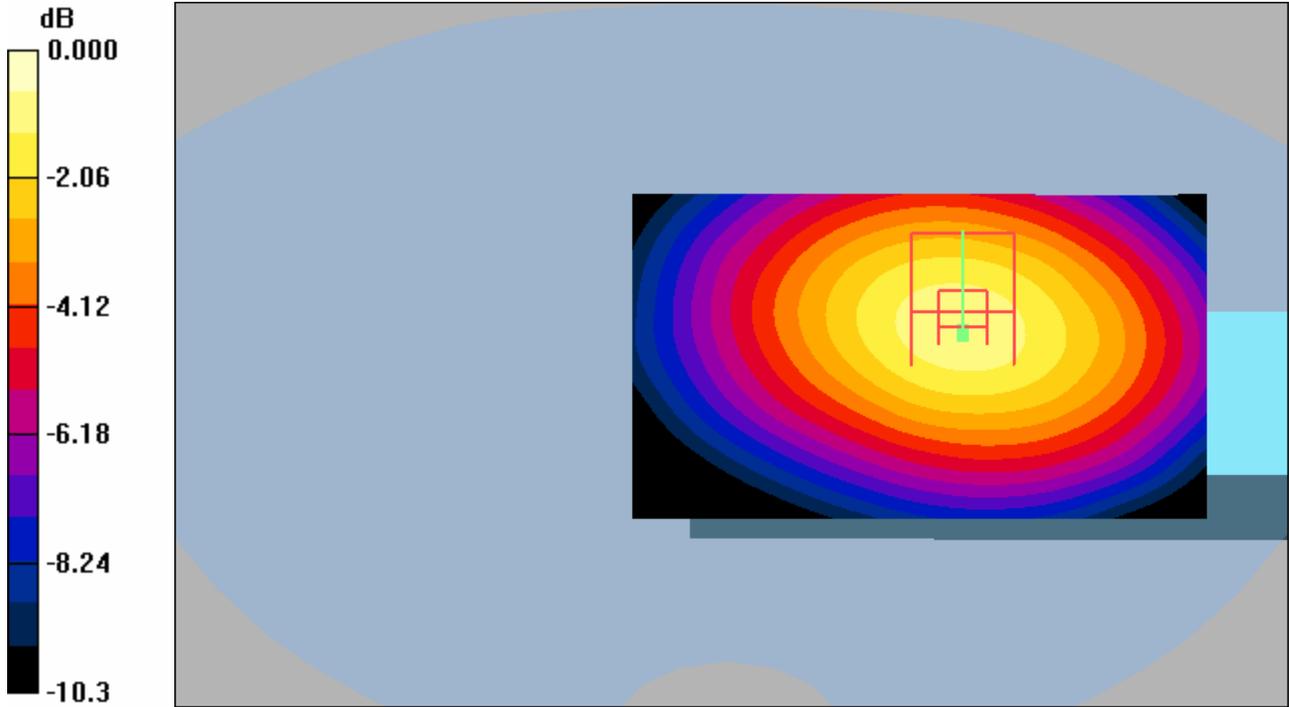
Reference Value = 4.42 V/m; Power Drift = -0.056 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

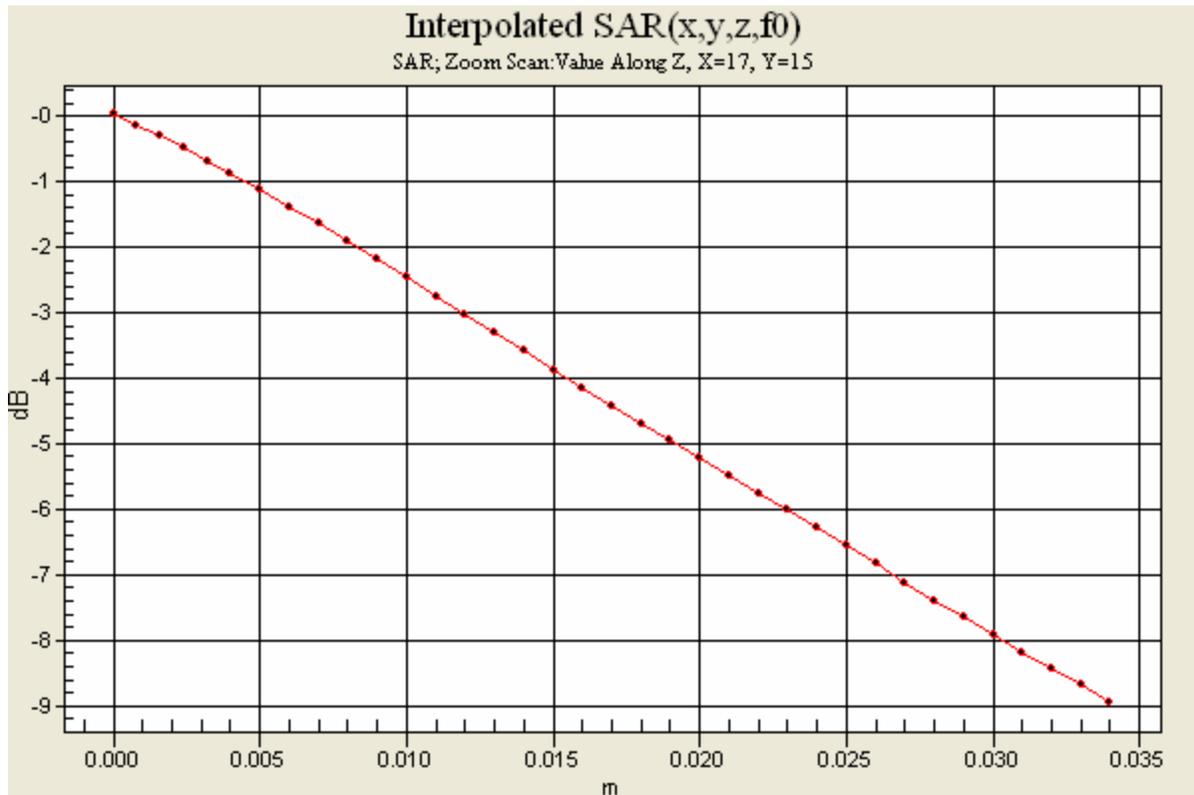
Maximum value of SAR (interpolated) = 0.072 mW/g



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0 dB = 0.072mW/g





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**900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position.**

Date/Time: 2/1/2006 8:51:49 AM

File Name: [01Feb06_Z525A_GSM900_JHY5_open_PTT01.da4](#)

DUT: Z525A

Program Notes: Battery: BST-37

Humidity: 30.4% Ambient Temp: 24.6 C Simulant Temp: 24.5 C

Communication System: GSM 900; Frequency: 915.8 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 915.8 MHz; s = 0.968 mho/m; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.224 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = 0.069 dB

Peak SAR (extrapolated) = 0.287 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.148 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.225 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

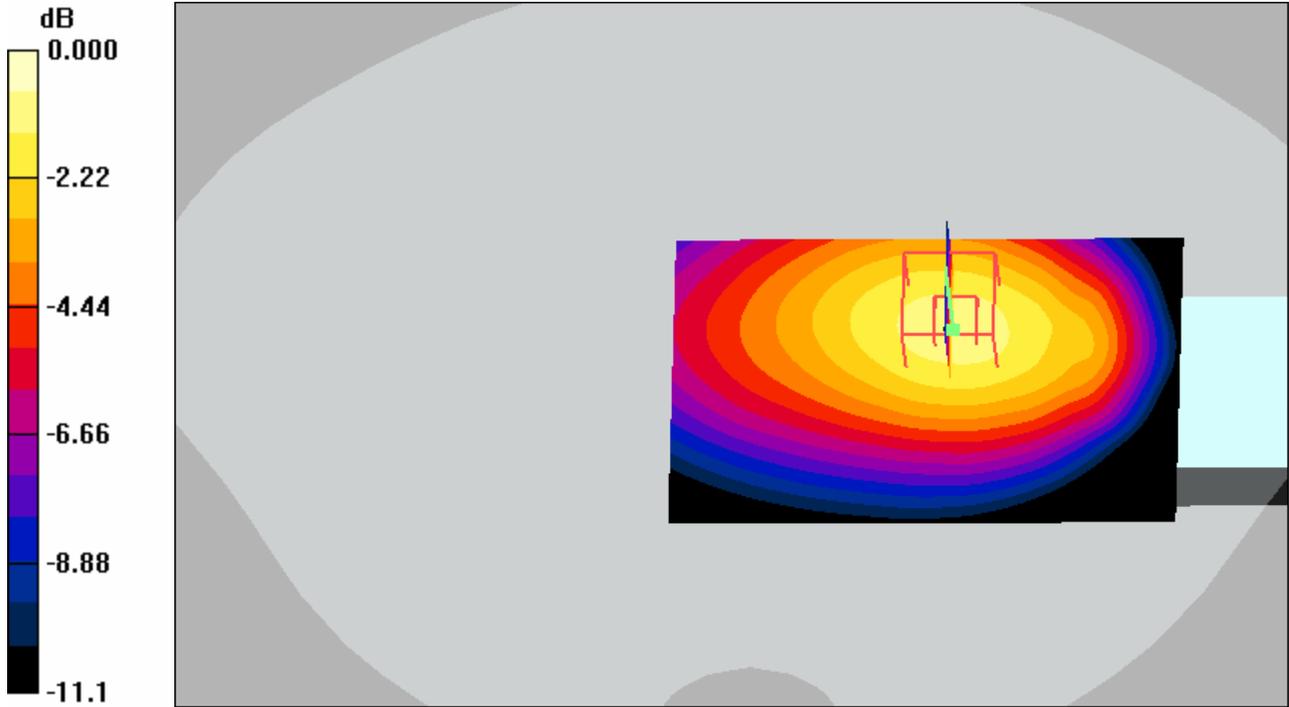
Reference Value = 10.5 V/m; Power Drift = 0.069 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

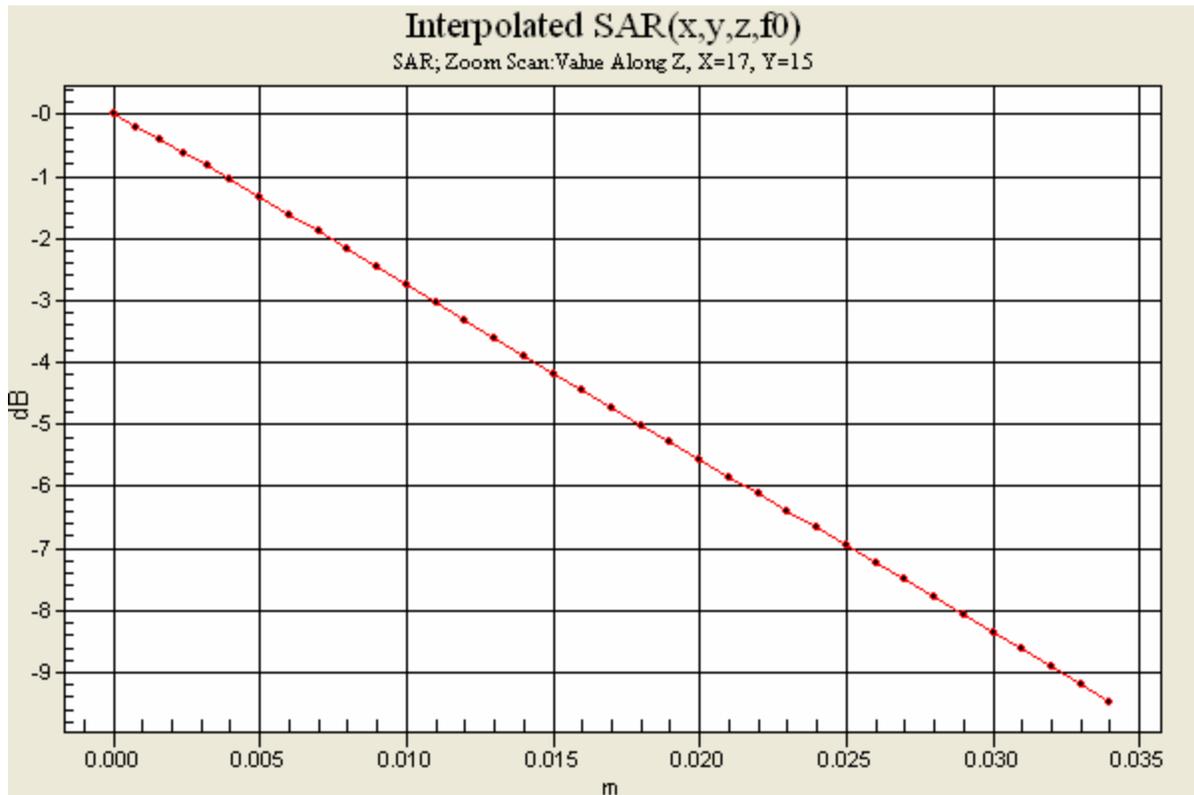
Maximum value of SAR (interpolated) = 0.287 mW/g



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0 dB = 0.287mW/g





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**900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position with Bluetooth on.**

Date/Time: 2/1/2006 9:14:39 AM

File Name: [01Feb06_Z525A_GSM900_JHY5_open_BT_PTT01.da4](#)

DUT: Z525A

Program Notes: Battery: BST-37

Humidity: 30.4% Ambient Temp: 24.6 C Simulant Temp: 24.5 C

Communication System: GSM 900; Frequency: 915.8 MHz; Duty Cycle: 1:8.3

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 915.8 MHz; s = 0.968 mho/m; $\epsilon_r = 40.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn416; Calibrated: 11/10/2005
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.214 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.3 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.275 W/kg

SAR(1 g) = 0.202 mW/g; SAR(10 g) = 0.141 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.216 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

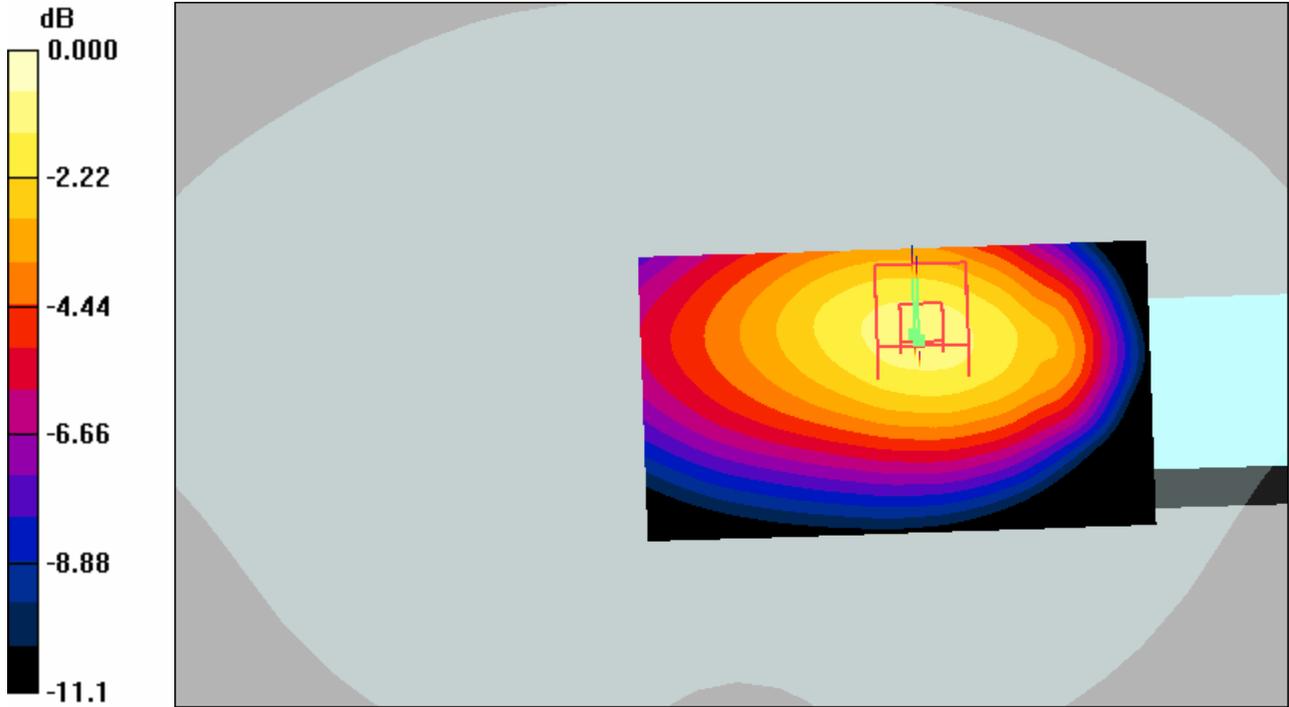
Reference Value = 10.3 V/m; Power Drift = 0.024 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

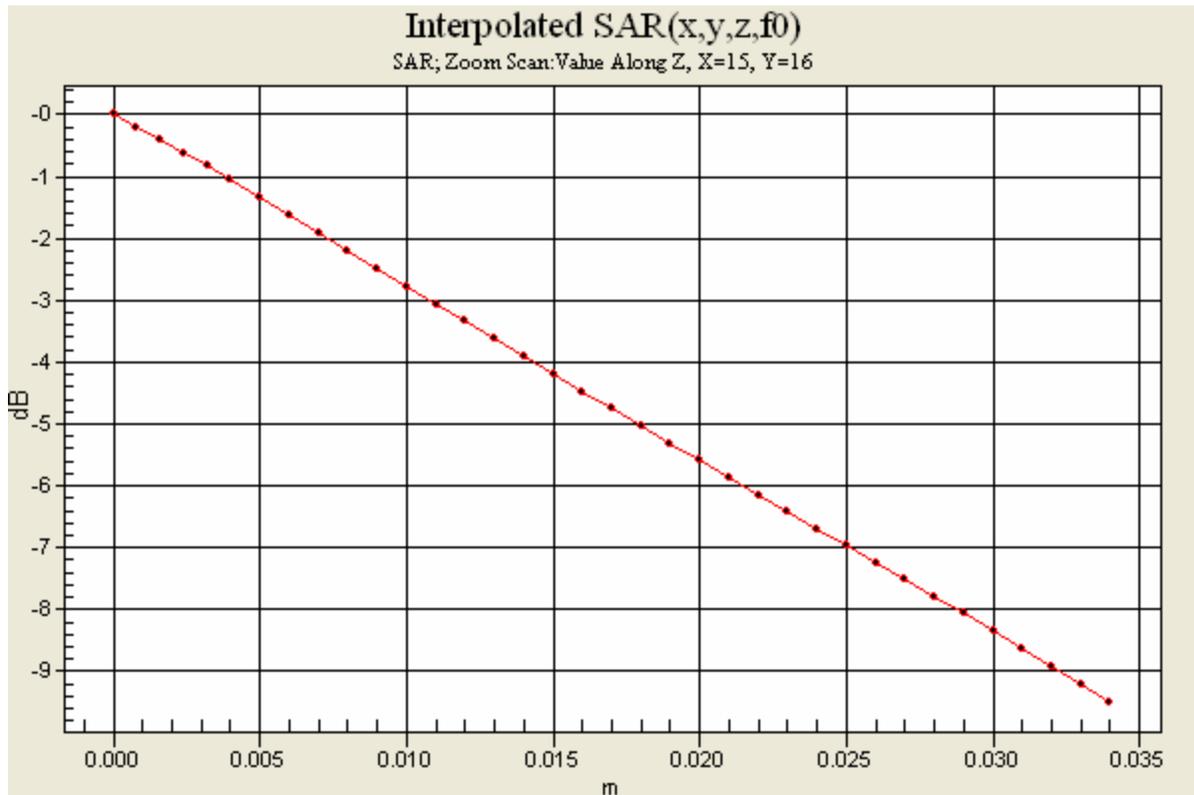
Maximum value of SAR (interpolated) = 0.275 mW/g



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0 dB = 0.275mW/g





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**1800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD302466ZH with Standard Battery: BST-37
Right Side, Cheek/Touch Position.**

Date/Time: 8/27/2005 3:03:23 PM Date/Time: 8/27/2005 3:09:06 PM

File Name: [27Aug05_Z525A_GSM1800_66ZH_RC01.da4](#)

DUT: Z525A

Program Notes: BST-37 Humidity: 46.4% Ambient Temp: 21.9 Simulant Temp: 21.1

Communication System: GSM 1800; Frequency: 1784.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1784.8 MHz; s = 1.38 mho/m; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.35, 5.35, 5.35); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.619 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.1 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.11 W/kg

SAR(1 g) = 0.556 mW/g; SAR(10 g) = 0.287 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.618 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

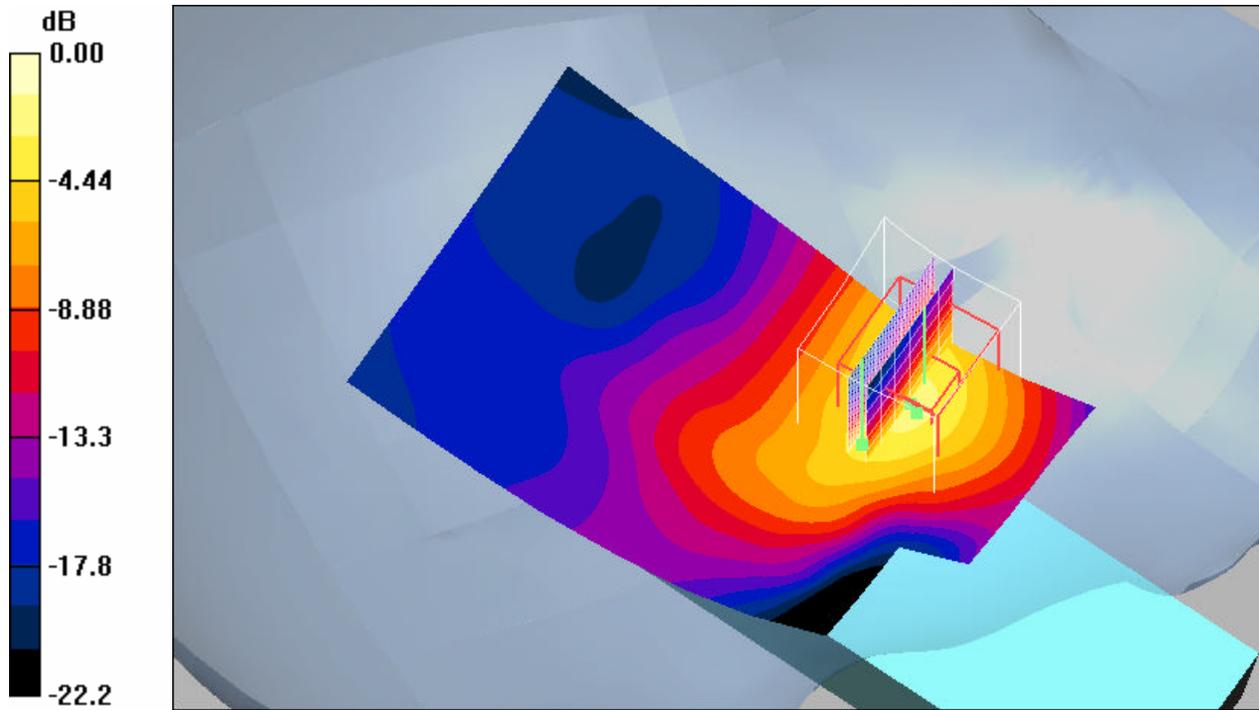
Reference Value = 16.1 V/m; Power Drift = 0.00 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

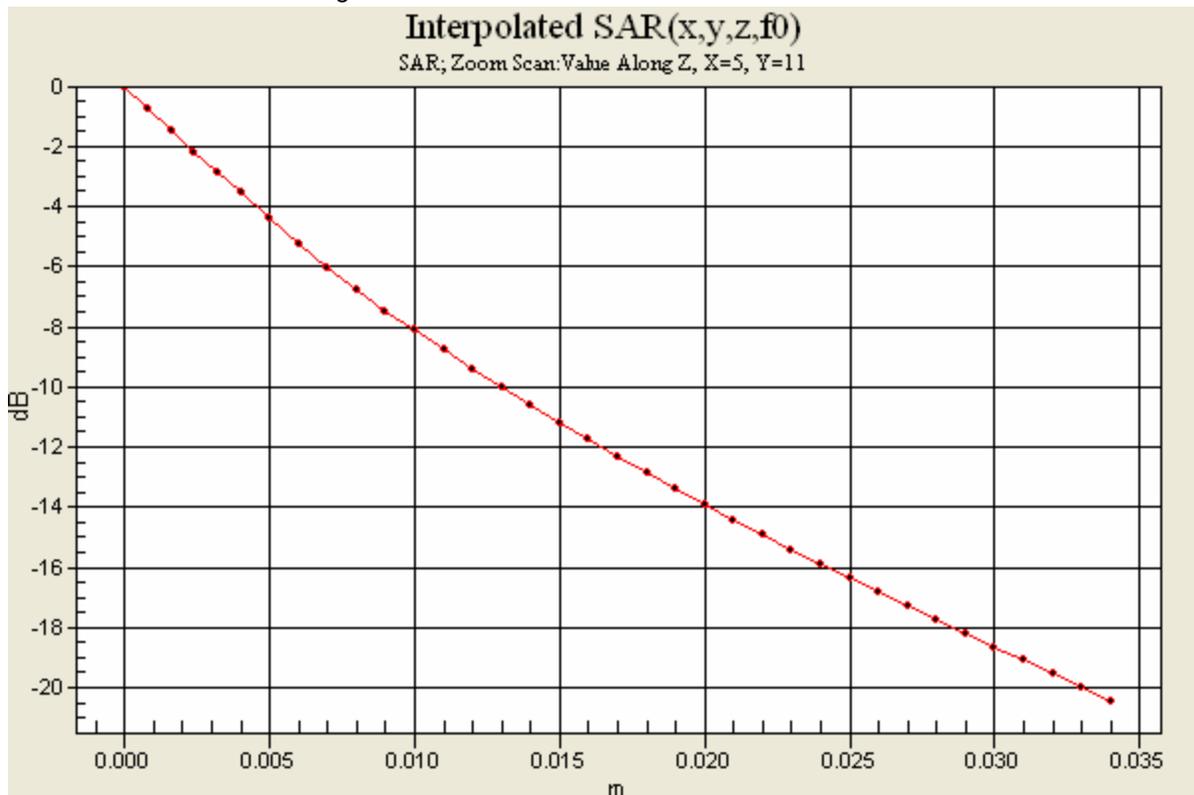
Maximum value of SAR (interpolated) = 1.11 mW/g



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0 dB = 1.11mW/g





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**1800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD302466ZH with Standard Battery: BST-37
Right Side, Tilt Position.**

Date/Time: 8/27/2005 1:29:08 PM Date/Time: 8/27/2005 1:34:38 PM

File Name: [27Aug05_Z525A_GSM1800_66ZH_RT01.da4](#)

DUT: Z525A

Program Notes: BST-37 Humidity: 47.1% Ambient Temp: 21.8 Simulant Temp: 20.9

Communication System: GSM 1800; Frequency: 1747.4 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): $f = 1747.4 \text{ MHz}$; $s = 1.34 \text{ mho/m}$; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.35, 5.35, 5.35); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.134 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.25 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 0.168 W/kg

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.074 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.127 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

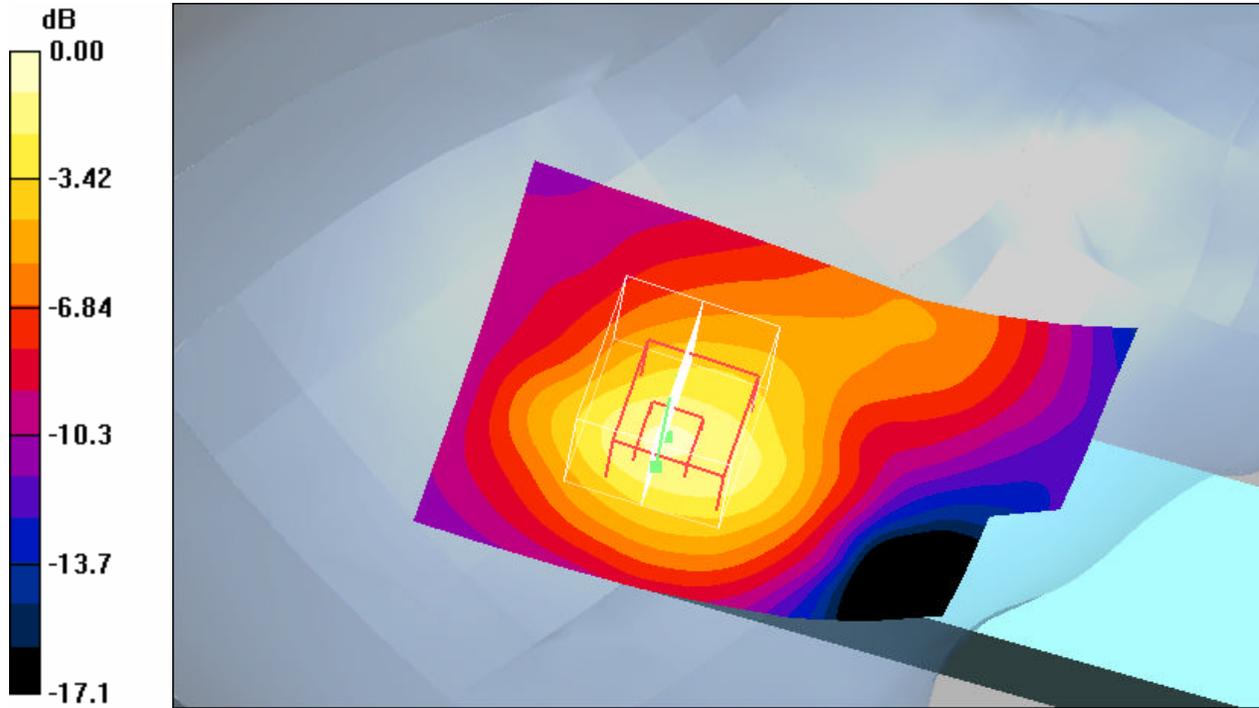
Reference Value = 7.25 V/m; Power Drift = -0.126 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

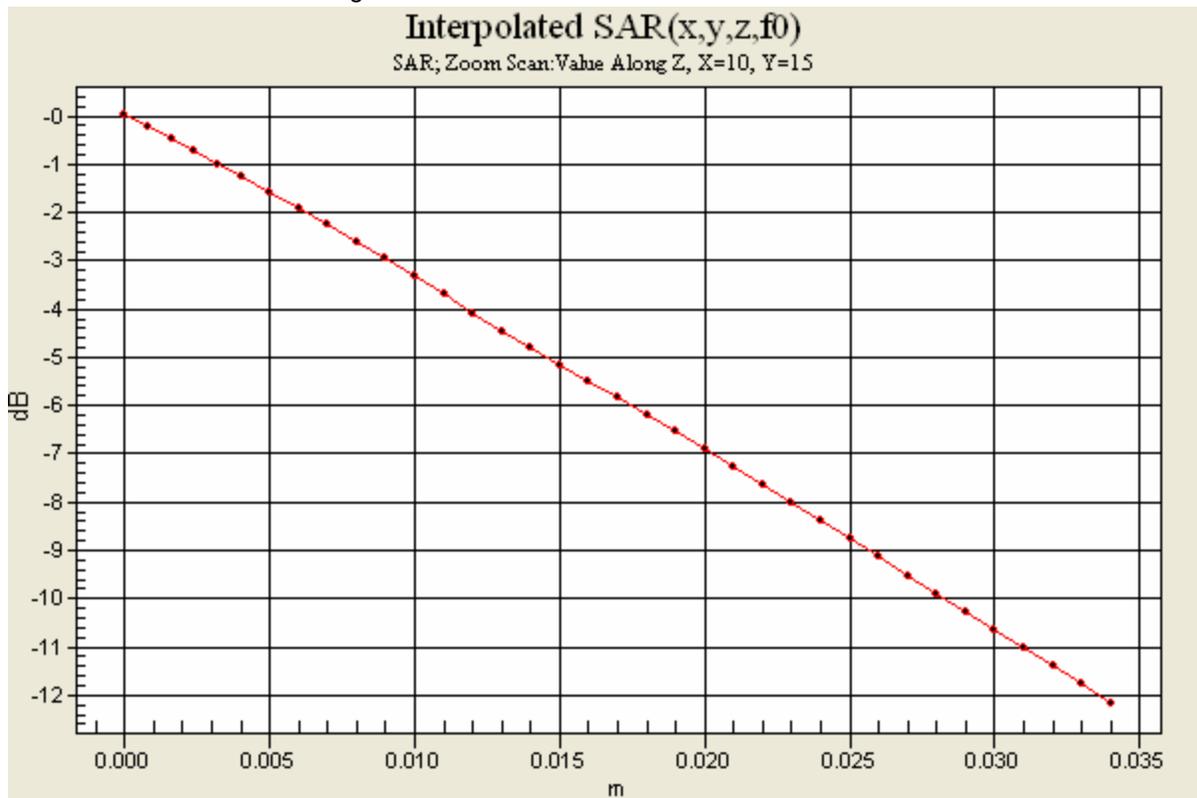
Maximum value of SAR (interpolated) = 0.168 mW/g



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0 dB = 0.168mW/g





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**1800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD302466ZH with Standard Battery: BST-37
Left Side, Cheek/Touch Position.**

Date/Time: 8/27/2005 10:26:53 AM Date/Time: 8/27/2005 10:33:03 AM

File Name: [27Aug05_Z525A_GSM1800_66ZH_LC01.da4](#)

DUT: Z525A

Program Notes: BST-37 Humidity: 43.5% Ambient Temp: 22.2 Simulant Temp: 22

Communication System: GSM 1800; Frequency: 1784.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1784.8 MHz; s = 1.38 mho/m; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.35, 5.35, 5.35); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.374 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.2 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.688 W/kg

SAR(1 g) = 0.375 mW/g; SAR(10 g) = 0.199 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.392 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

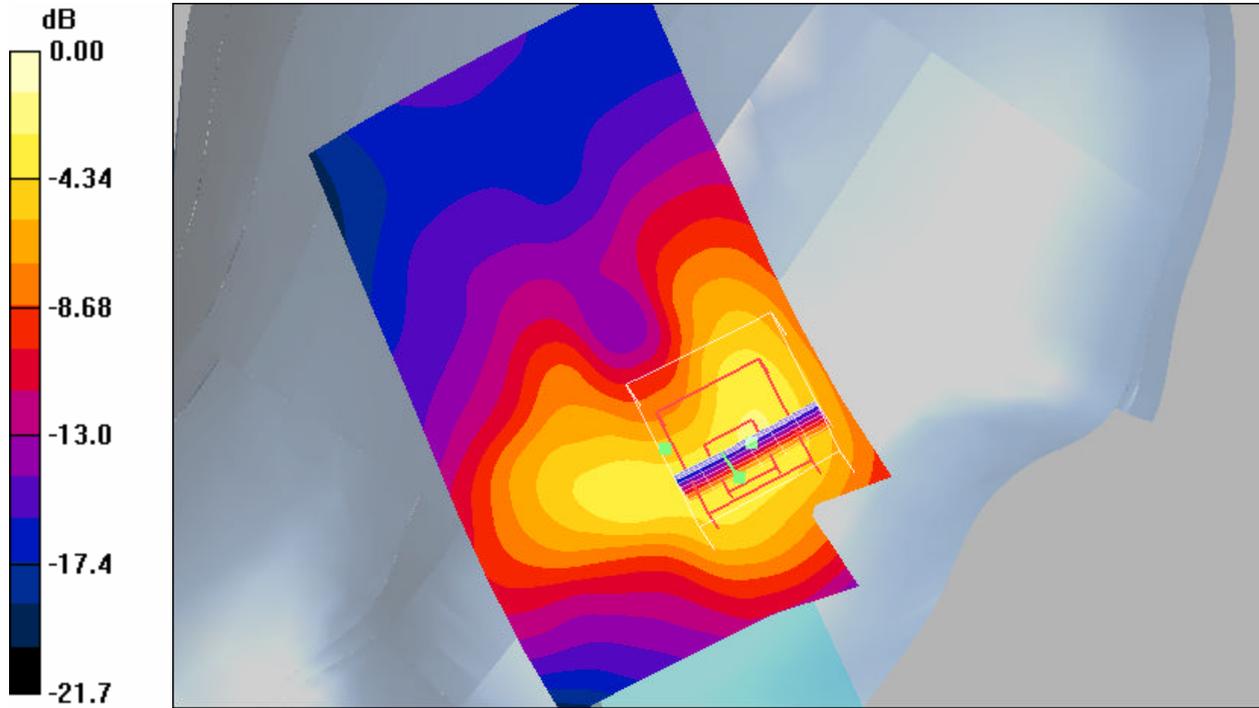
Reference Value = 16.2 V/m; Power Drift = -0.030 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

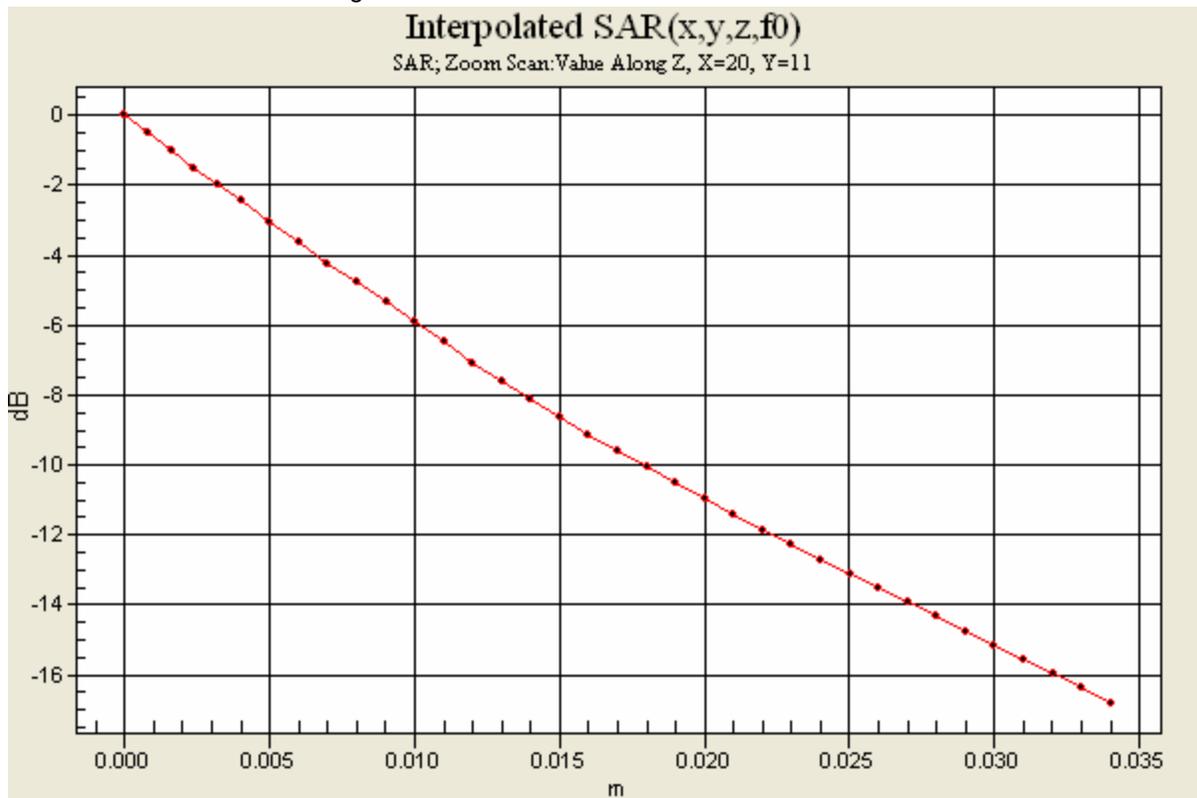
Maximum value of SAR (interpolated) = 0.688 mW/g



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0 dB = 0.688mW/g





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**1800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD302466ZH with Standard Battery: BST-37
Left Side, Tilt Position.**

Date/Time: 8/27/2005 11:29:06 AM Date/Time: 8/27/2005 11:34:36 AM

File Name: [27Aug05_Z525A_GSM1800_66ZH_LT01.da4](#)

DUT: Z525A

Program Notes: BST-37 Humidity: 45.8% Ambient Temp: 21.6 Simulant Temp: 20.5

Communication System: GSM 1800; Frequency: 1747.4 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1747.4 MHz; s = 1.34 mho/m; $\epsilon_r = 39.5$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.35, 5.35, 5.35); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.100 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.39 V/m; Power Drift = -0.113 dB

Peak SAR (extrapolated) = 0.126 W/kg

SAR(1 g) = 0.089 mW/g; SAR(10 g) = 0.058 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.096 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

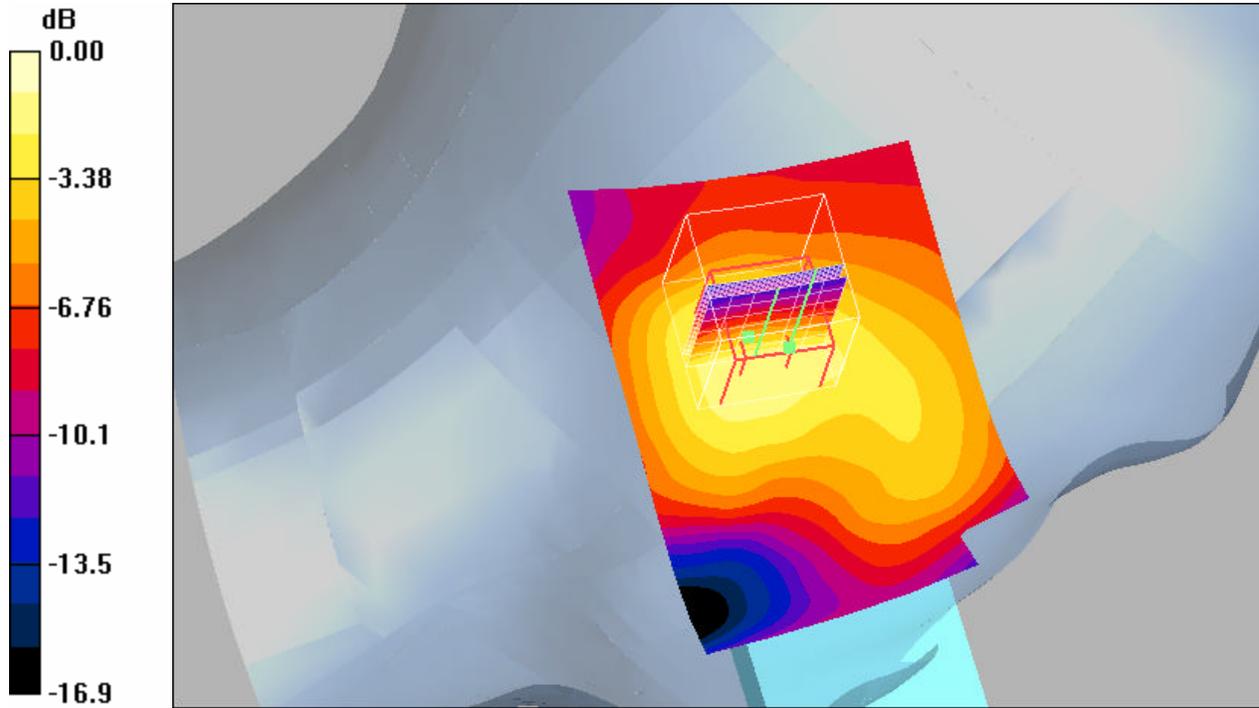
Reference Value = 4.39 V/m; Power Drift = -0.113 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

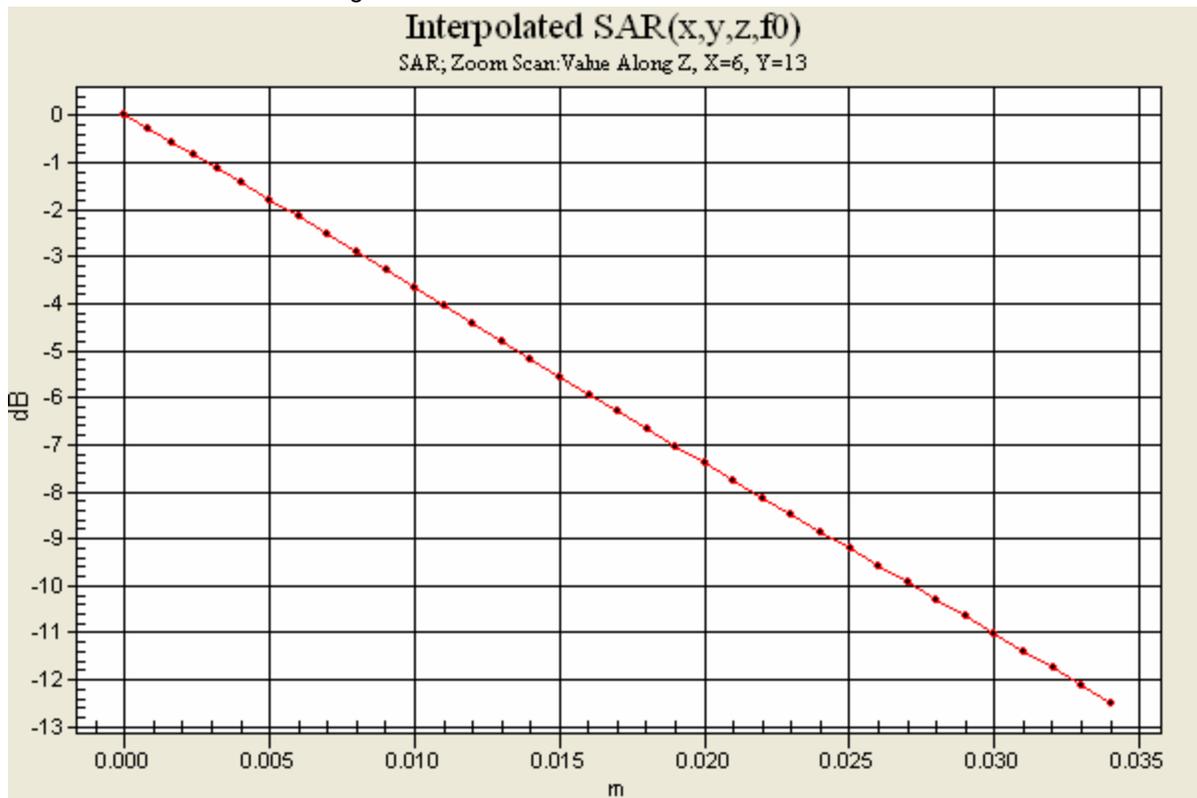
Maximum value of SAR (interpolated) = 0.126 mW/g



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0 dB = 0.126mW/g





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**1800 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD302466ZH with Standard Battery: BST-37
Right Side, Cheek/Touch Position with Blue Tooth.**

Date/Time: 8/27/2005 4:15:50 PM Date/Time: 8/27/2005 4:21:32 PM

File Name: [27Aug05_Z525A_GSM1800_66ZH_BT_RC01.da4](#)

DUT: Z525A

Program Notes: BST-37 Humidity: 47.3% Ambient Temp: 21.7 Simulant Temp: 21.3

Communication System: GSM 1800; Frequency: 1784.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1784.8 MHz; s = 1.38 mho/m; $\epsilon_r = 39.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.35, 5.35, 5.35); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.607 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.51 V/m; Power Drift = -0.079 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.560 mW/g; SAR(10 g) = 0.288 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.638 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

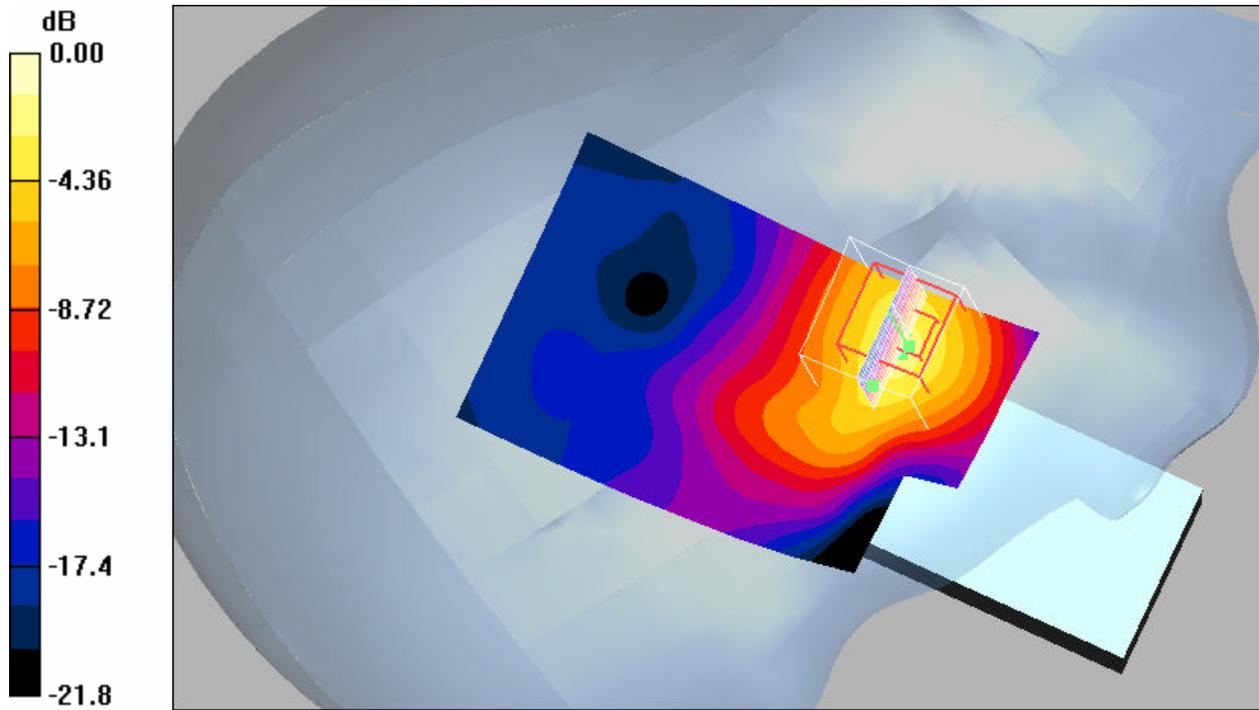
Reference Value = 3.51 V/m; Power Drift = -0.079 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

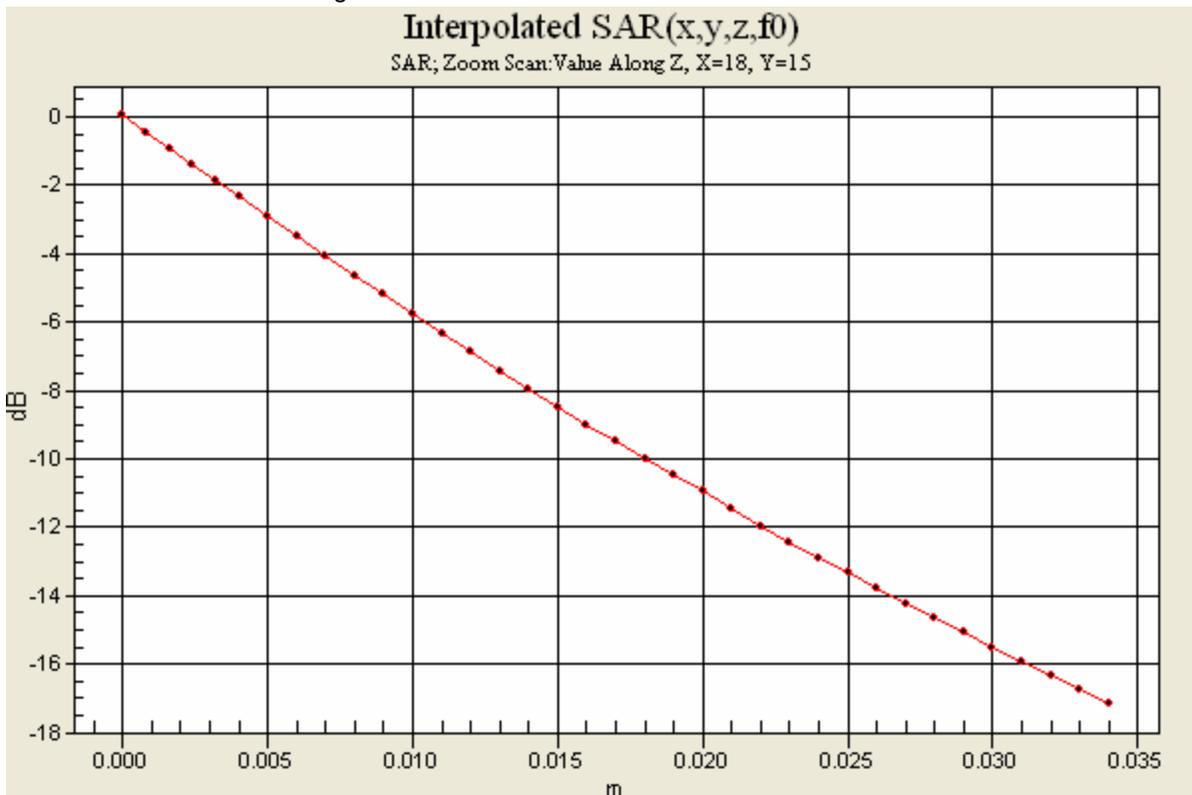
Maximum value of SAR (interpolated) = 1.08 mW/g



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0 dB = 1.08mW/g





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**1800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Closed Position.**

Date/Time: 1/31/2006 12:03:03 PM

File Name: [31Jan06_Z525A_GSM1800_JHY5_closed_PTT01.da4](#)

DUT: Z525A

Program Notes: BST-37

Humidity: 37.5% Ambient Temp: 22.6 C Simulant Temp: 21.5 C

Communication System: GSM 1800; Frequency: 1710.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1710.2 MHz; s = 1.3 mho/m; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.76, 4.76, 4.76); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.097 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.17 V/m; Power Drift = -0.022 dB

Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.091 mW/g; SAR(10 g) = 0.059 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.098 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

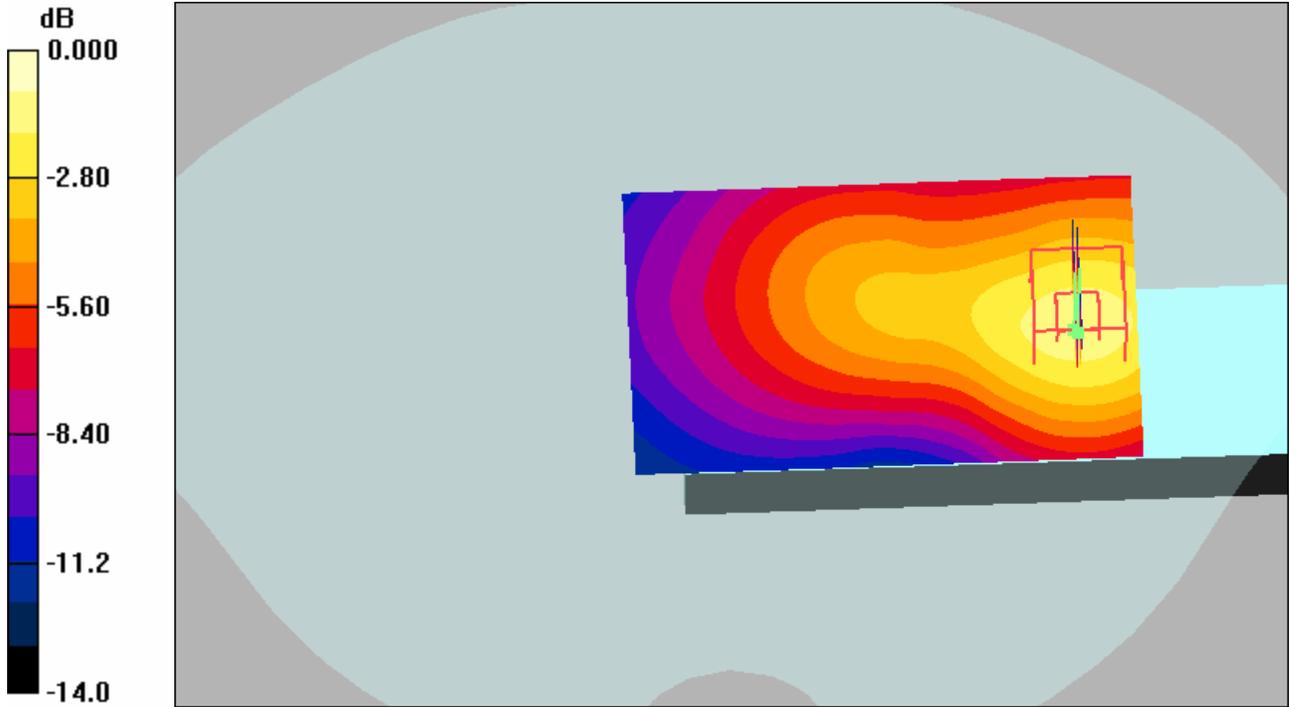
Reference Value = 4.17 V/m; Power Drift = -0.022 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

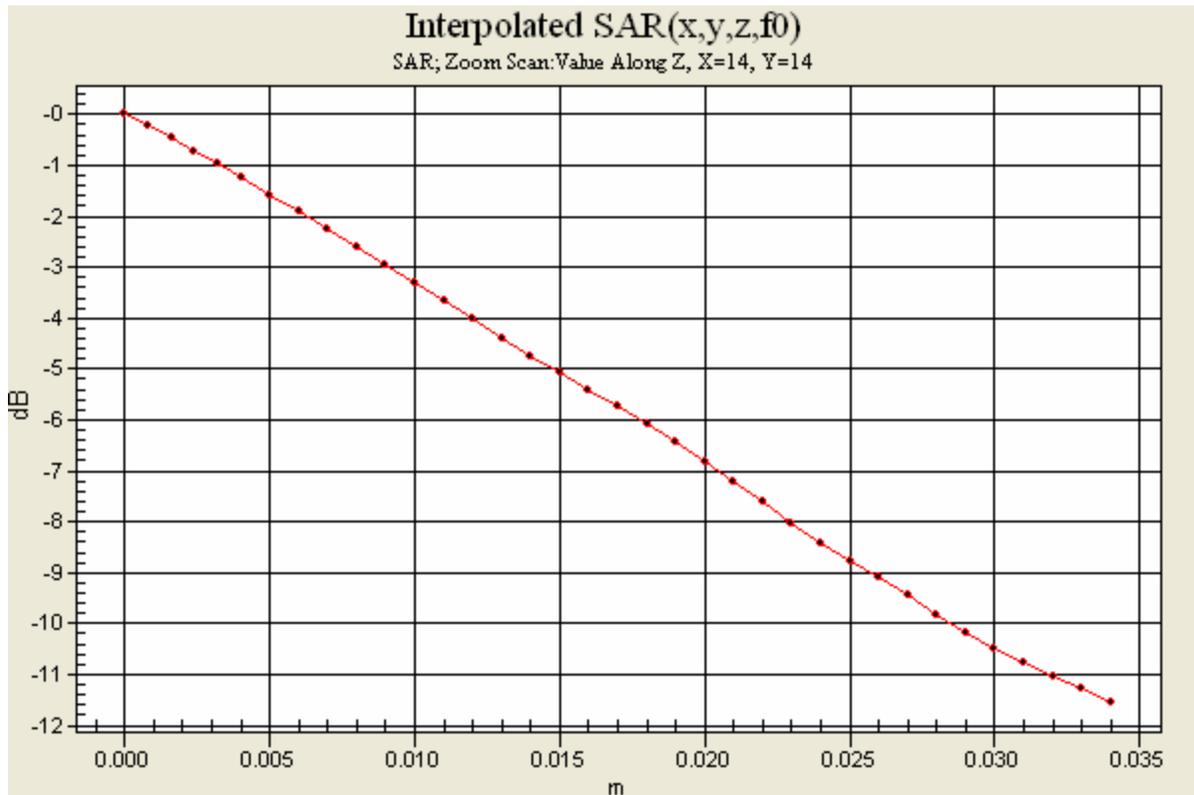
Maximum value of SAR (interpolated) = 0.131 mW/g



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0 dB = 0.131mW/g





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**1800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Closed Position with Bluetooth on.**

Date/Time: 1/31/2006 1:09:33 PM

File Name: [31Jan06_Z525A_GSM1800_JHY5_closed_BT_PTT01.da4](#)

DUT: Z525A

Program Notes: BST-37

Humidity: 37.5% Ambient Temp: 22.6 C Simulant Temp: 21.5 C

Communication System: GSM 1800; Frequency: 1710.2 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): f = 1710.2 MHz; s = 1.3 mho/m; $\epsilon_r = 39.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.76, 4.76, 4.76); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (interpolated) = 0.089 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.51 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.083 mW/g; SAR(10 g) = 0.054 mW/g

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.090 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

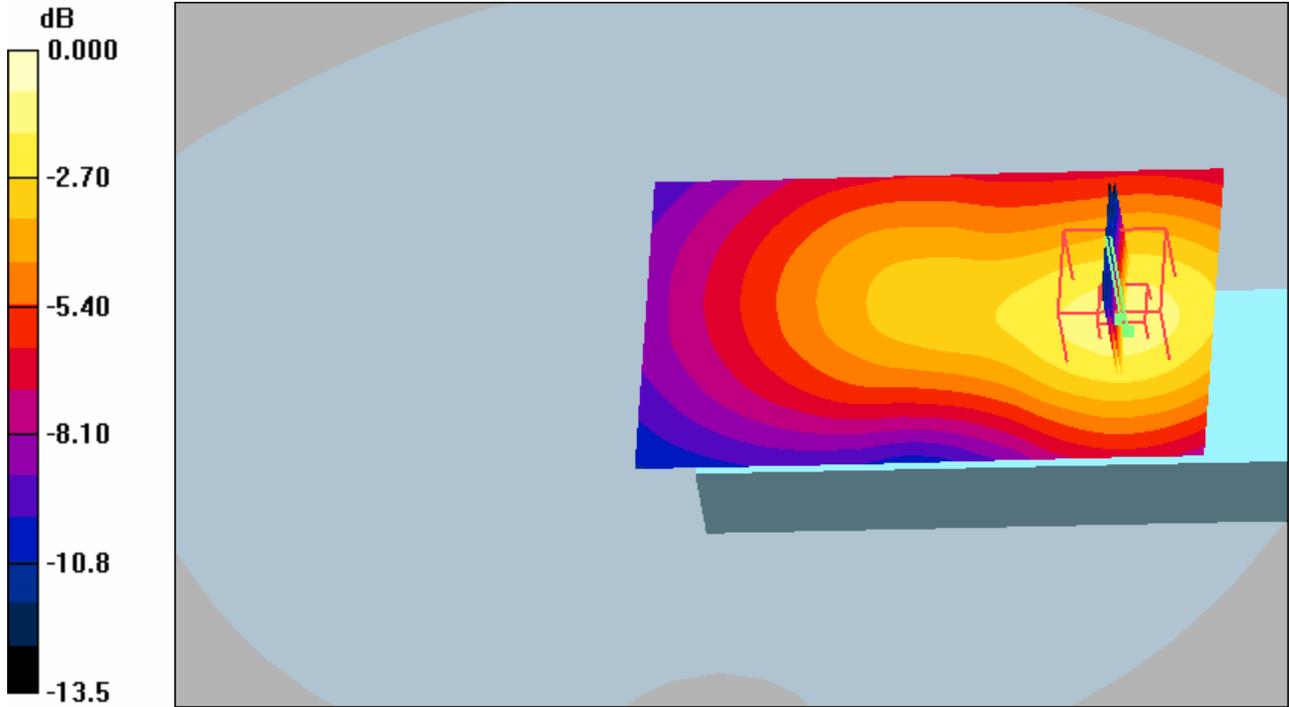
Reference Value = 4.51 V/m; Power Drift = -0.041 dB

[Info: Interpolated medium parameters used for SAR evaluation.](#)

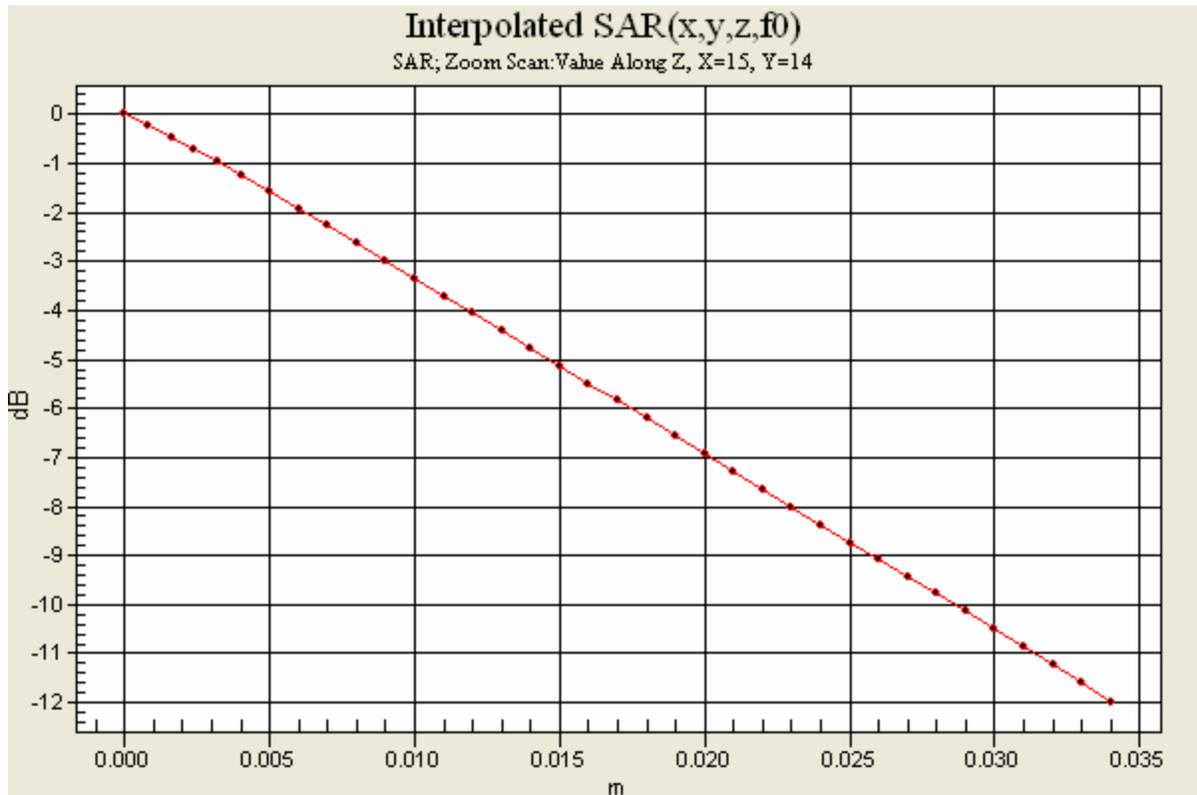
Maximum value of SAR (interpolated) = 0.119 mW/g



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0 dB = 0.119mW/g





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**1800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position.**

Date/Time: 1/31/2006 11:03:44 AM

File Name: [31Jan06_Z525A_GSM1800_JHY5_open_PTT01.da4](#)

DUT: Z525A

Program Notes: BST-37

Humidity: 31.4% Ambient Temp: 24.6 C Simulant Temp: 21.7 C

Communication System: GSM 1800; Frequency: 1784.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1785 MHz; s = 1.36 mho/m; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.76, 4.76, 4.76); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.170 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.63 V/m; Power Drift = -0.101 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.150 mW/g; SAR(10 g) = 0.091 mW/g

Maximum value of SAR (measured) = 0.163 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

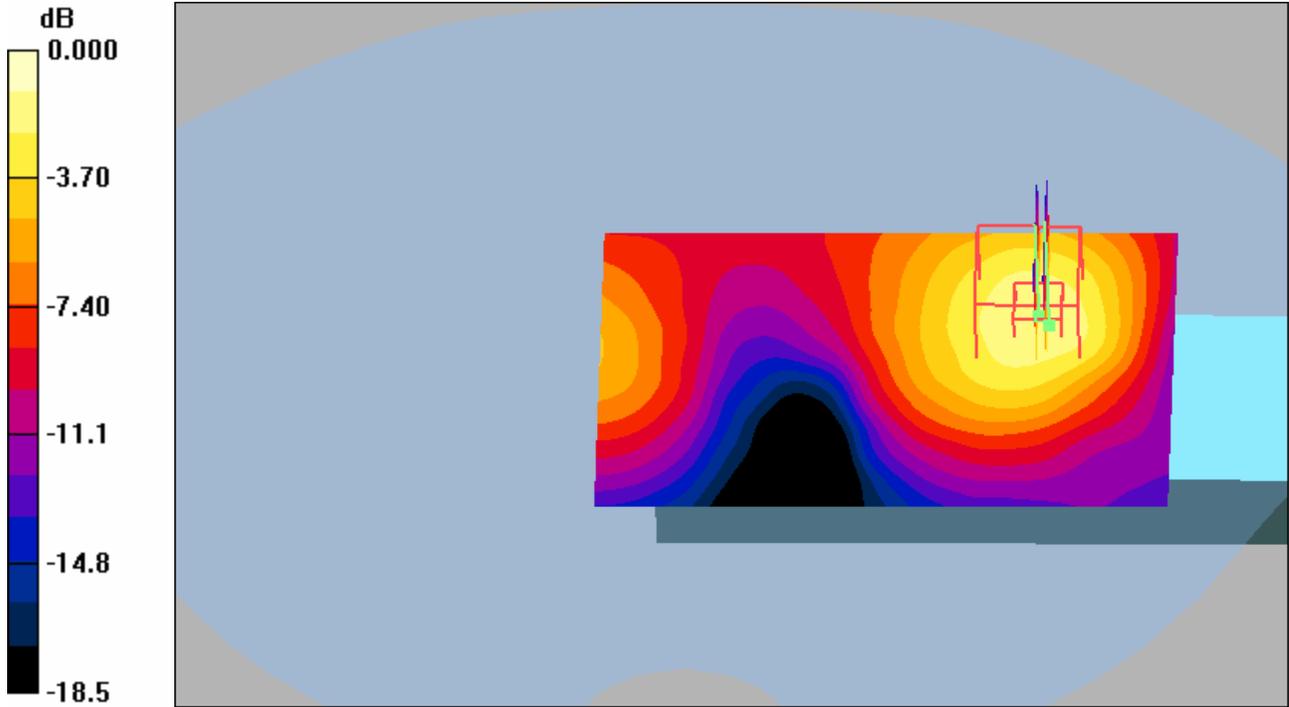
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.63 V/m; Power Drift = -0.101 dB

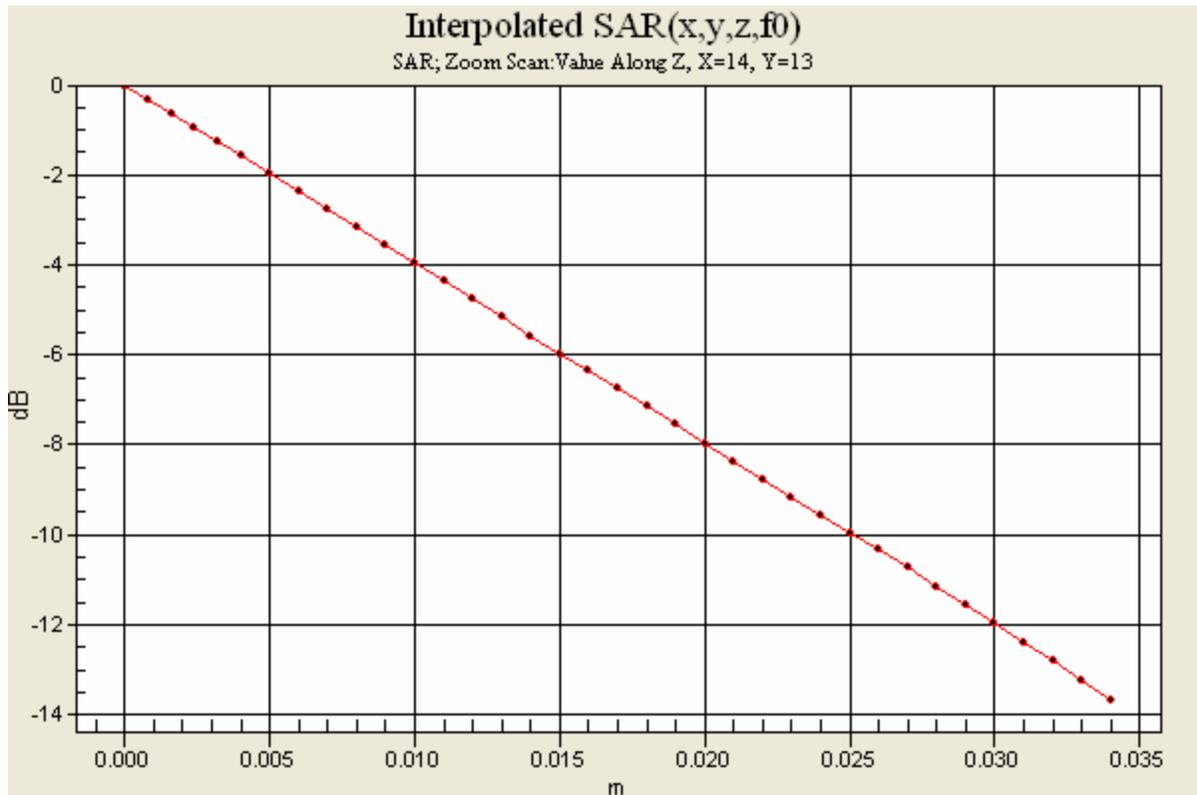
Maximum value of SAR (interpolated) = 0.231 mW/g



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0 dB = 0.231mW/g





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**1800 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJHY5 with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position with Blue tooth on.**

Date/Time: 1/31/2006 11:24:34 AM

File Name: [31Jan06_Z525A_GSM1800_JHY5_open_BT_PTT01.da4](#)

DUT: Z525A

Program Notes: BST-37

Humidity: 31.4% Ambient Temp: 24.6 C Simulant Temp: 21.7 C

Communication System: GSM 1800; Frequency: 1784.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1785 MHz; s = 1.36 mho/m; $\epsilon_r = 38.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.76, 4.76, 4.76); Calibrated: 11/22/2005

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn345; Calibrated: 11/10/2005

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.167 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.46 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.089 mW/g

Maximum value of SAR (measured) = 0.159 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

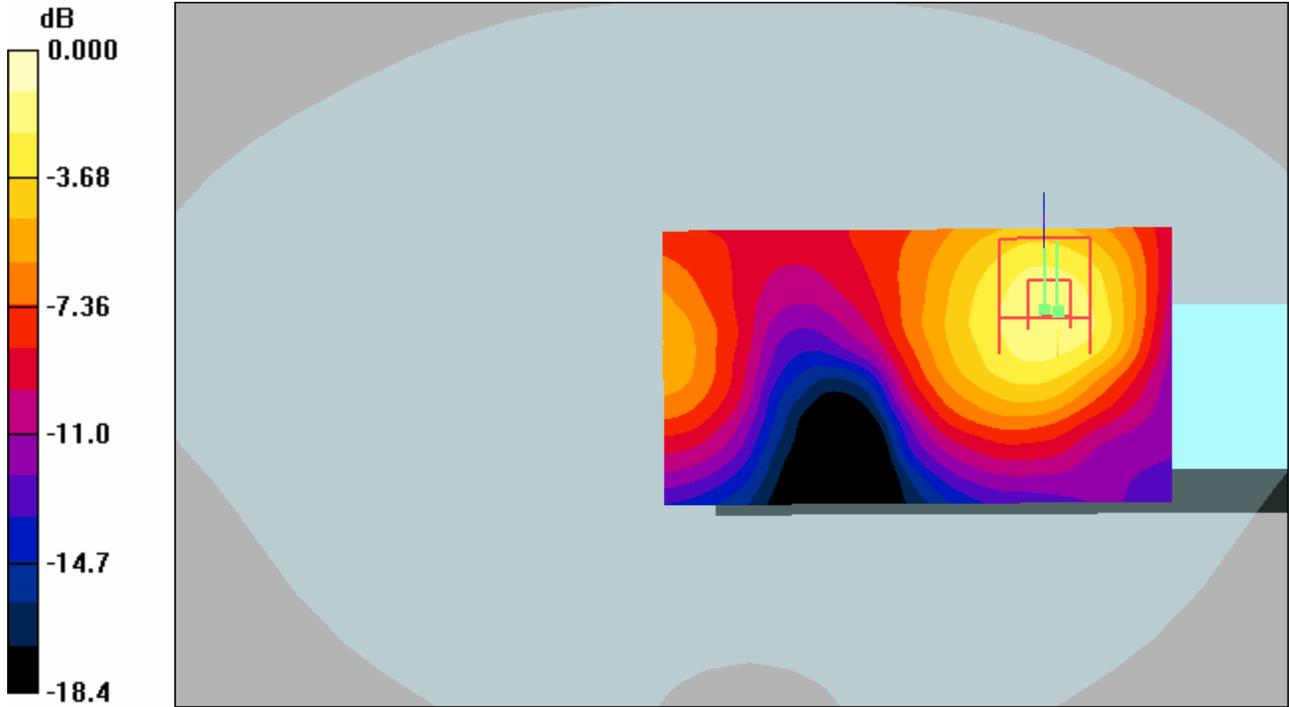
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.46 V/m; Power Drift = 0.000 dB

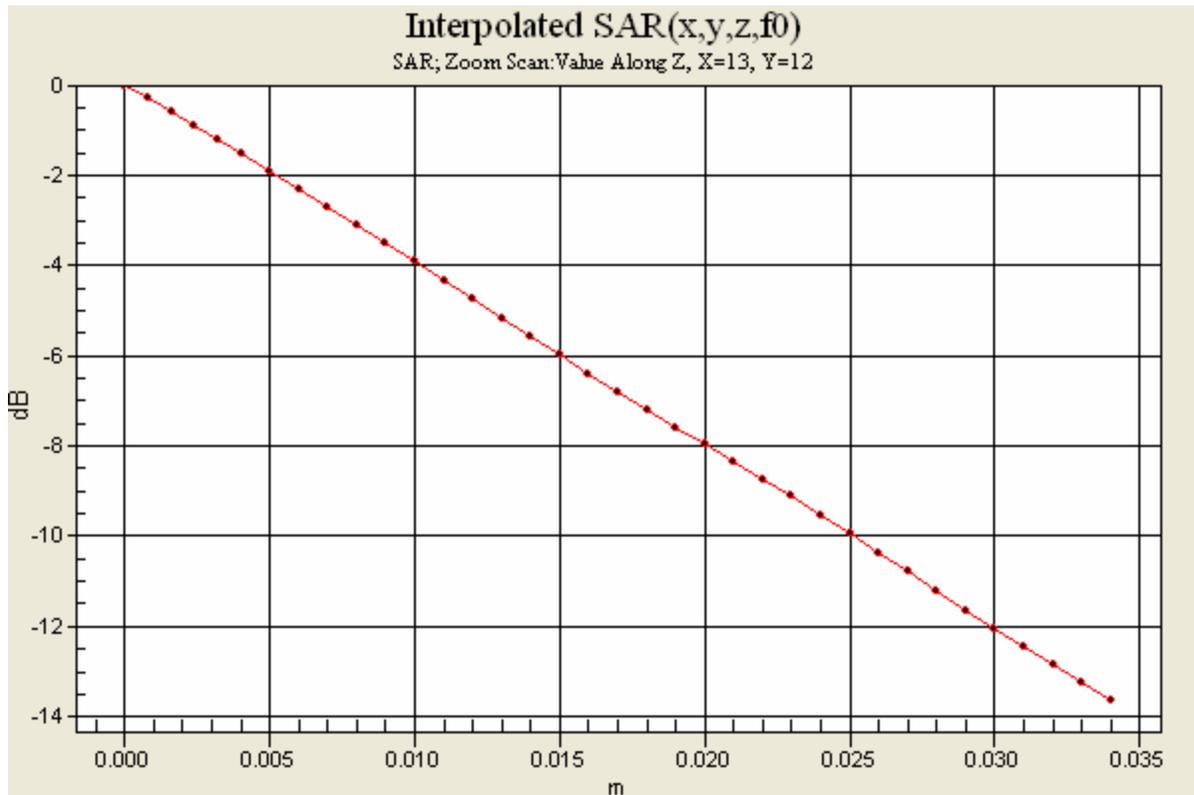
Maximum value of SAR (interpolated) = 0.225 mW/g



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0 dB = 0.225mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD30246HHE with Standard Battery: BST-37
Right Side, Cheek/Touch Position.**

Date/Time: 8/25/2005 11:56:56 AM Date/Time: 8/25/2005 12:02:14 PM

File Name: [25Aug05_Z525A_GSM1900_6HHE_RC01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 48.9% Ambient Temp: 20.6 Simulant Temp: 20.6

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.926 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.36 V/m; Power Drift = -0.021 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.799 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.899 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

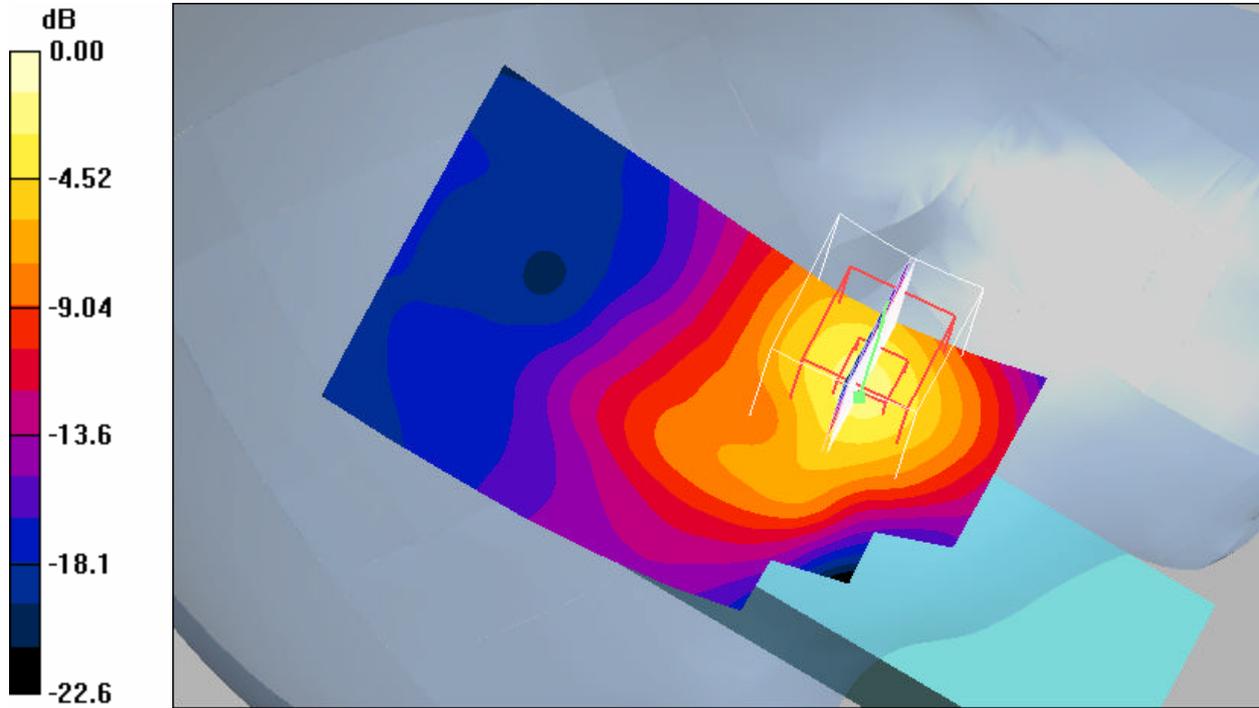
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.36 V/m; Power Drift = -0.021 dB

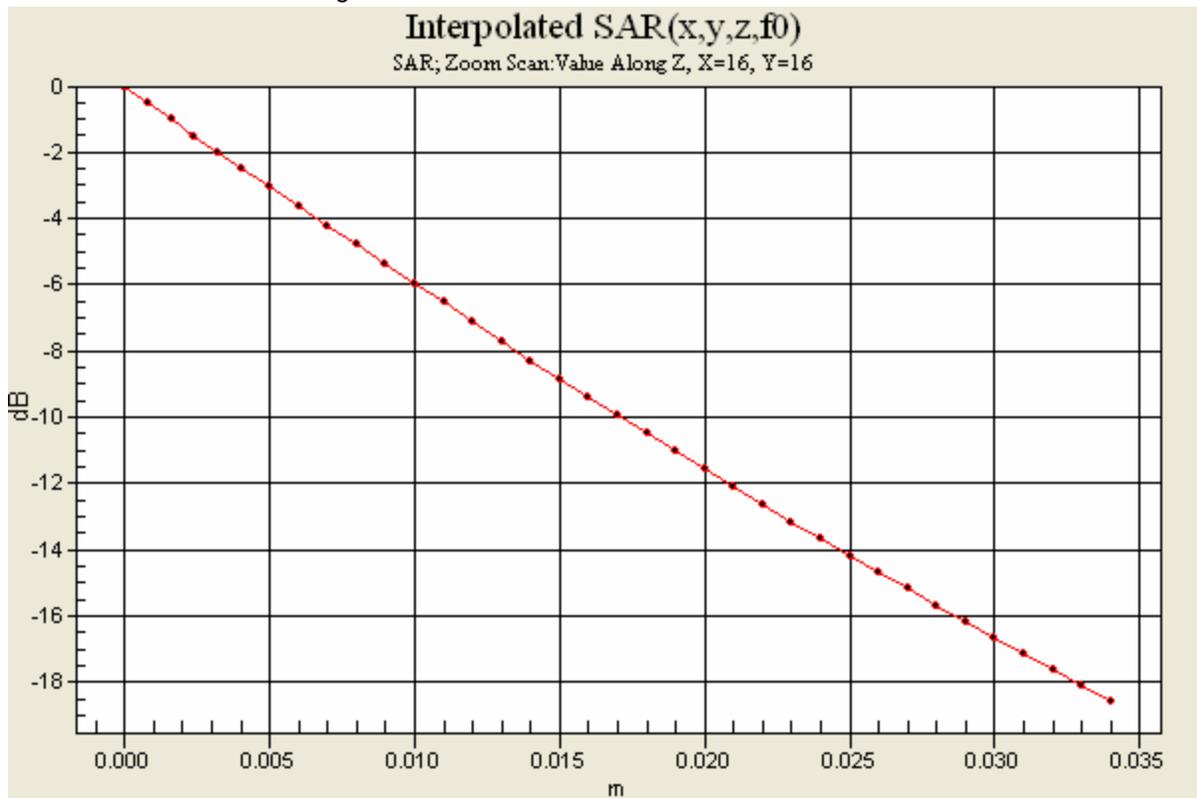
Maximum value of SAR (interpolated) = 1.57 mW/g



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0 dB = 1.57mW/g





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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD30246HHE with Standard Battery: BST-37
Right Side, Tilt Position.**

Date/Time: 8/25/2005 10:54:18 AM Date/Time: 8/25/2005 10:59:35 AM

File Name: [25Aug05_Z525A_GSM1900_6HHE_RT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 54.5 Ambient Temp: 21.3 Simulant Temp: 20.7

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.199 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.33 V/m; Power Drift = -0.059 dB

Peak SAR (extrapolated) = 0.245 W/kg

SAR(1 g) = 0.166 mW/g; SAR(10 g) = 0.102 mW/g

Maximum value of SAR (measured) = 0.184 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

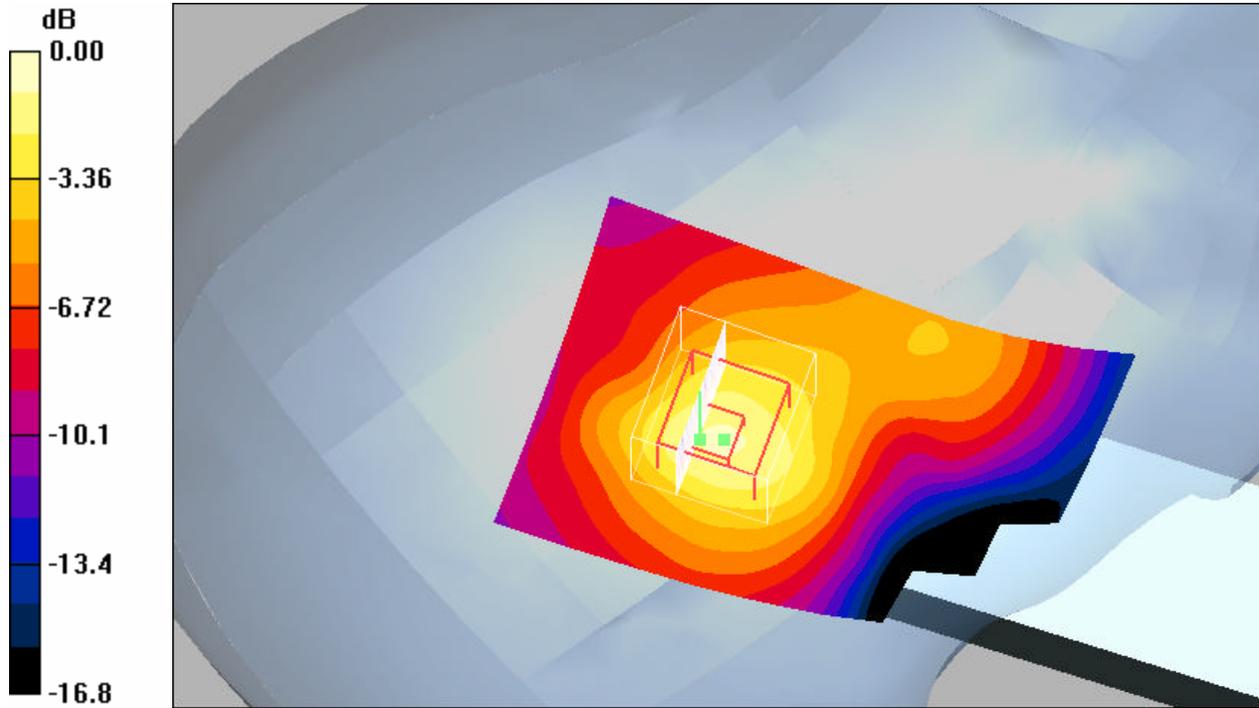
Reference Value = 8.33 V/m; Power Drift = -0.059 dB

Maximum value of SAR (interpolated) = 0.245 mW/g

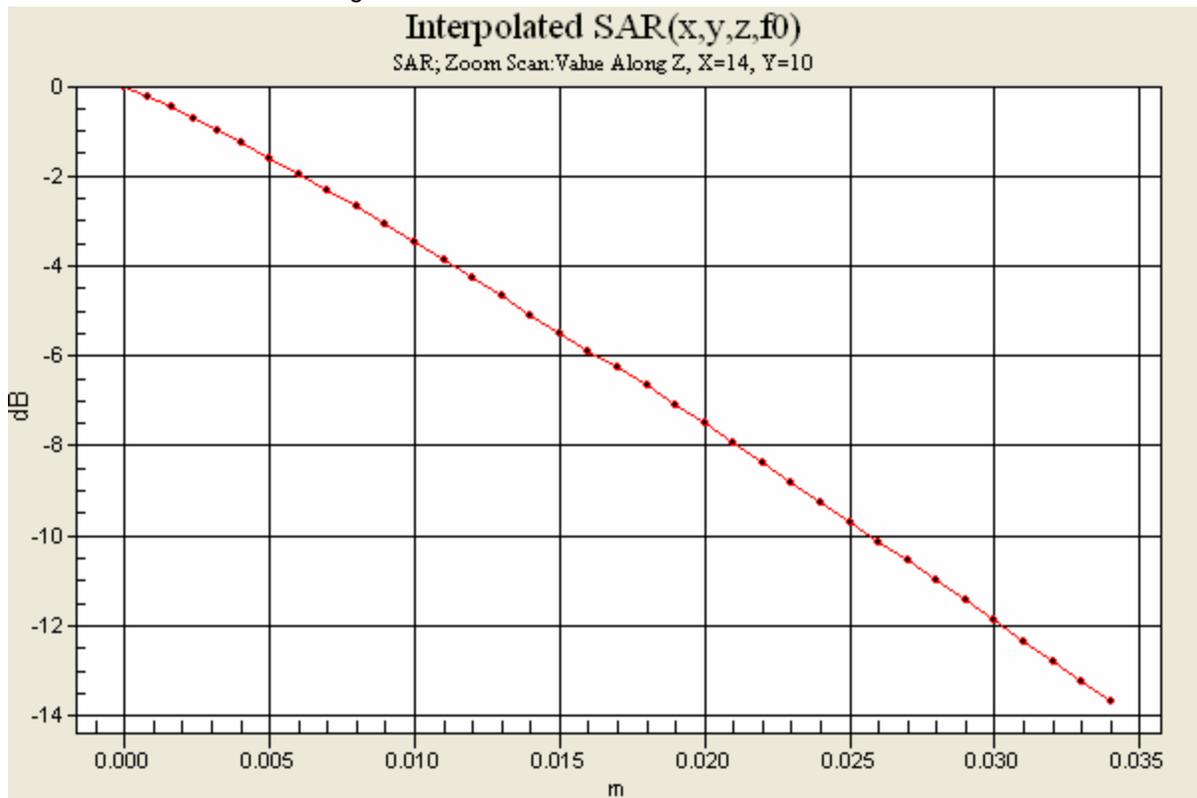


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0 dB = 0.245mW/g





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Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2006 001 Z525A 01	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD30246HHE with Standard Battery: BST-37
Left Side, Cheek/Touch Position.**

Date/Time: 8/25/2005 8:52:02 AM Date/Time: 8/25/2005 8:57:29 AM

File Name: [25Aug05_Z525A_GSM1900_6HHE_LC01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 49.5% Ambient Temp: 22.2 Simulant Temp: 22

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.05, 5.05, 5.05); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.524 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.9 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.523 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 0.592 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

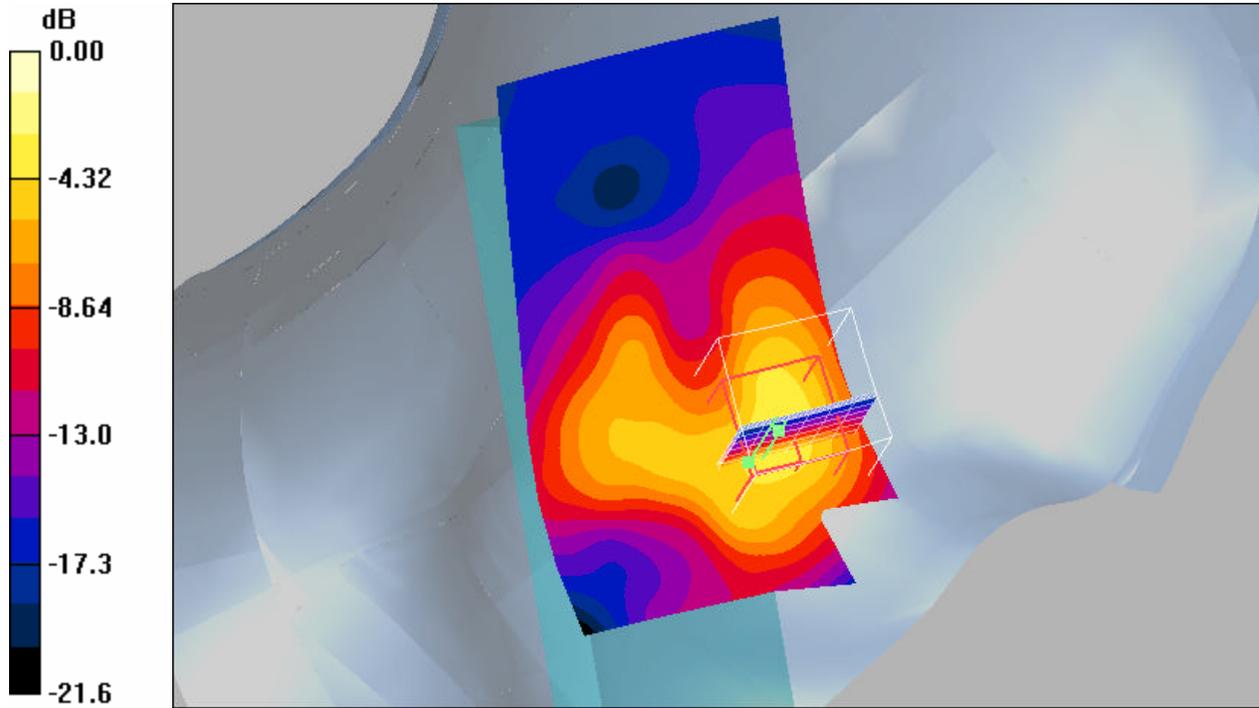
Reference Value = 14.9 V/m; Power Drift = -0.01 dB

Maximum value of SAR (interpolated) = 1.03 mW/g

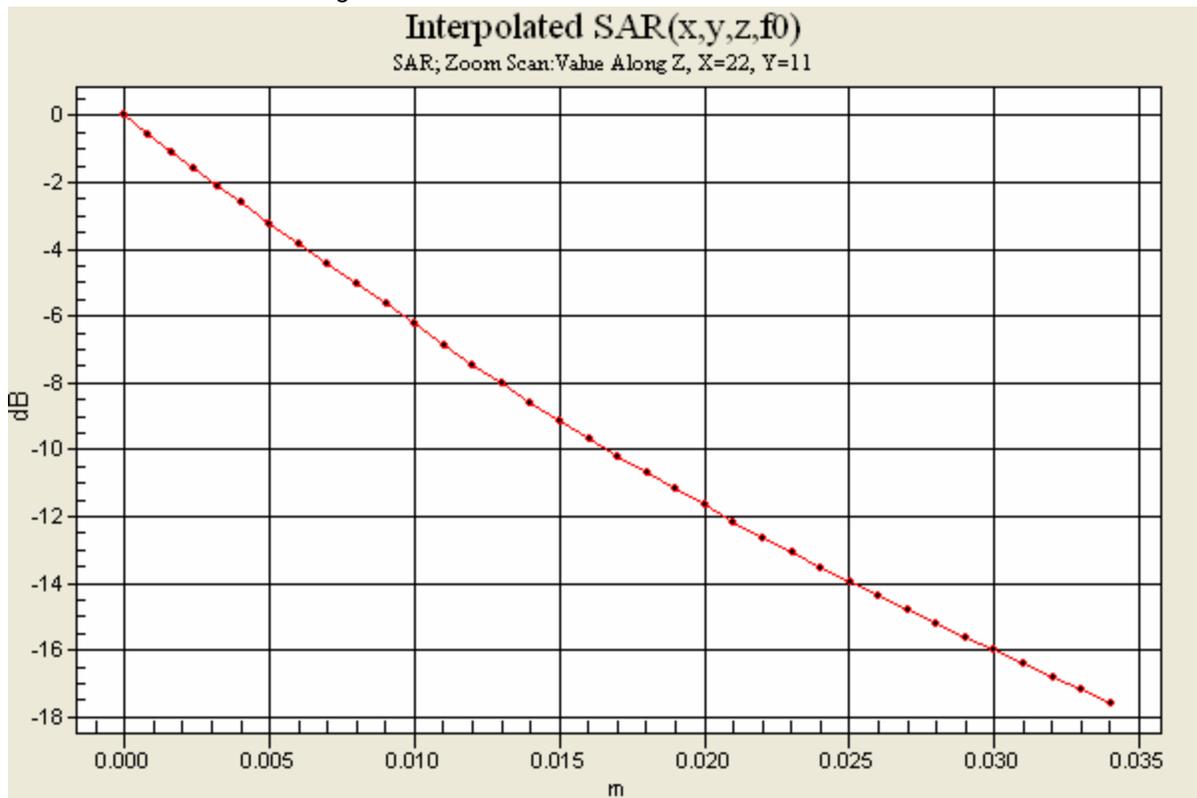


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0 dB = 1.03mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD30246HHE with Standard Battery: BST-37
Left Side, Tilt Position.**

Date/Time: 8/25/2005 10:12:57 AM Date/Time: 8/25/2005 10:18:24 AM

File Name: [25Aug05_Z525A_GSM1900_6HHE_LT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 54.6% Ambient Temp: 21.2 Simulant Temp: 22.1

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used (interpolated): $f = 1909.8 \text{ MHz}$; $s = 1.48 \text{ mho/m}$; $\epsilon_r = 38.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.05, 5.05, 5.05); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.150 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.39 V/m; Power Drift = -0.131 dB

Peak SAR (extrapolated) = 0.199 W/kg

SAR(1 g) = 0.130 mW/g; SAR(10 g) = 0.080 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.140 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.39 V/m; Power Drift = -0.131 dB

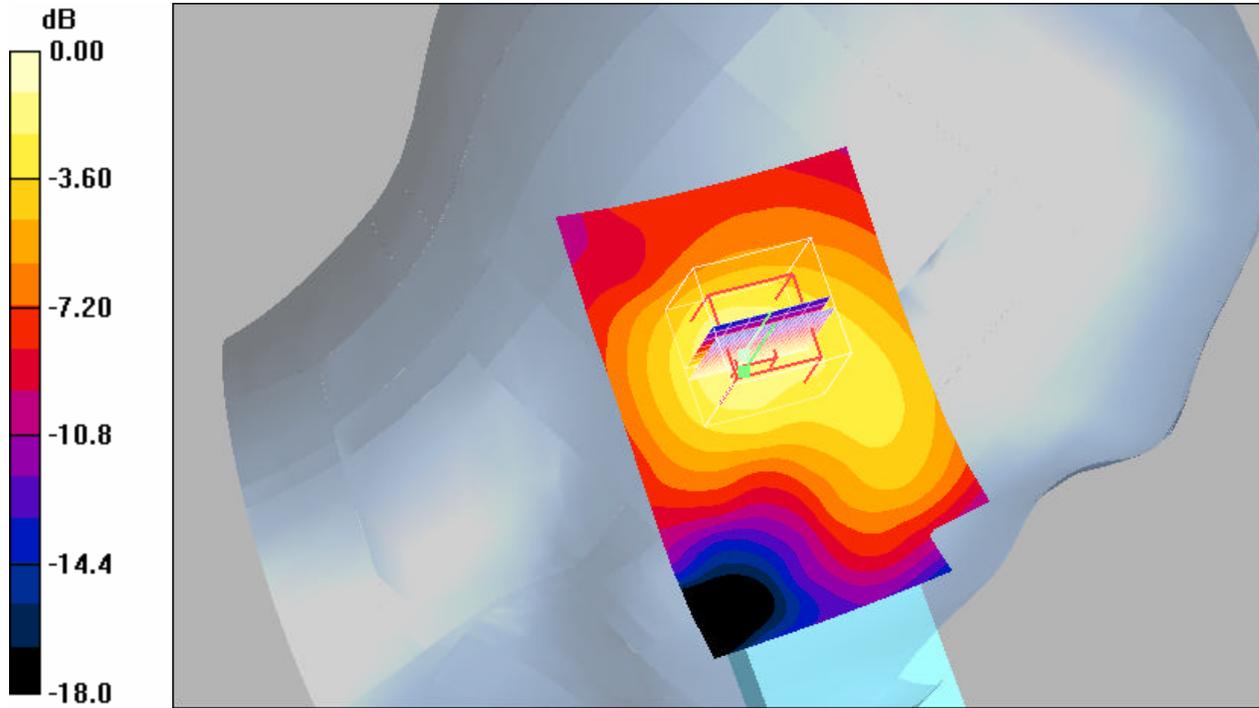
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.199 mW/g

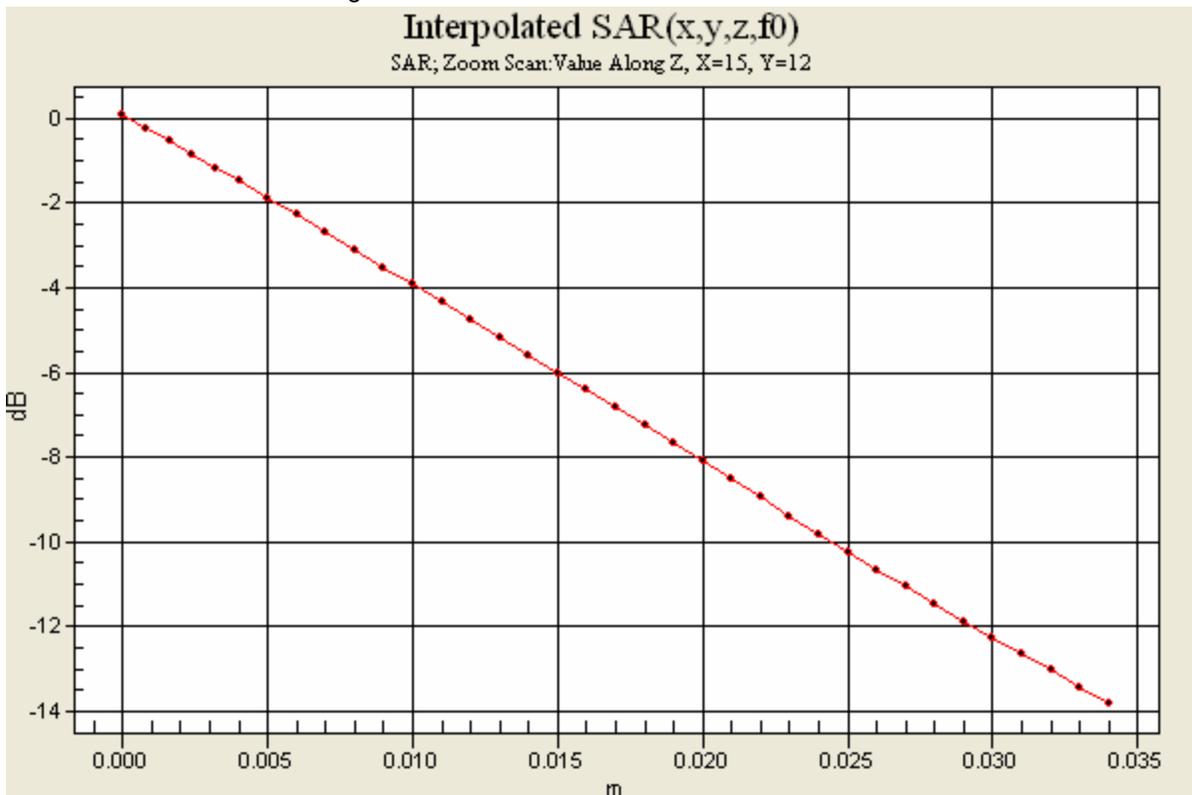


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0 dB = 0.199mW/g





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**1900 GSM Band: Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD30246HHE with Standard Battery: BST-37
Right Side, Cheek/Touch Position with Bluetooth on.**

Date/Time: 8/25/2005 2:05:15 PM Date/Time: 8/25/2005 2:10:33 PM

File Name: [25Aug05_Z525A_GSM1900_6HHE_BT_RC01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 51.9% Ambient Temp: 21.5 Simulant Temp: 20.5

Communication System: DCS 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1880 MHz; s = 1.45 mho/m; $\epsilon_r = 38.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.11, 5.11, 5.11); Calibrated: 5/27/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 2/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.911 mW/g

Unnamed procedure 2/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.45 V/m; Power Drift = -0.099 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.389 mW/g

Maximum value of SAR (measured) = 0.873 mW/g

Unnamed procedure 2/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

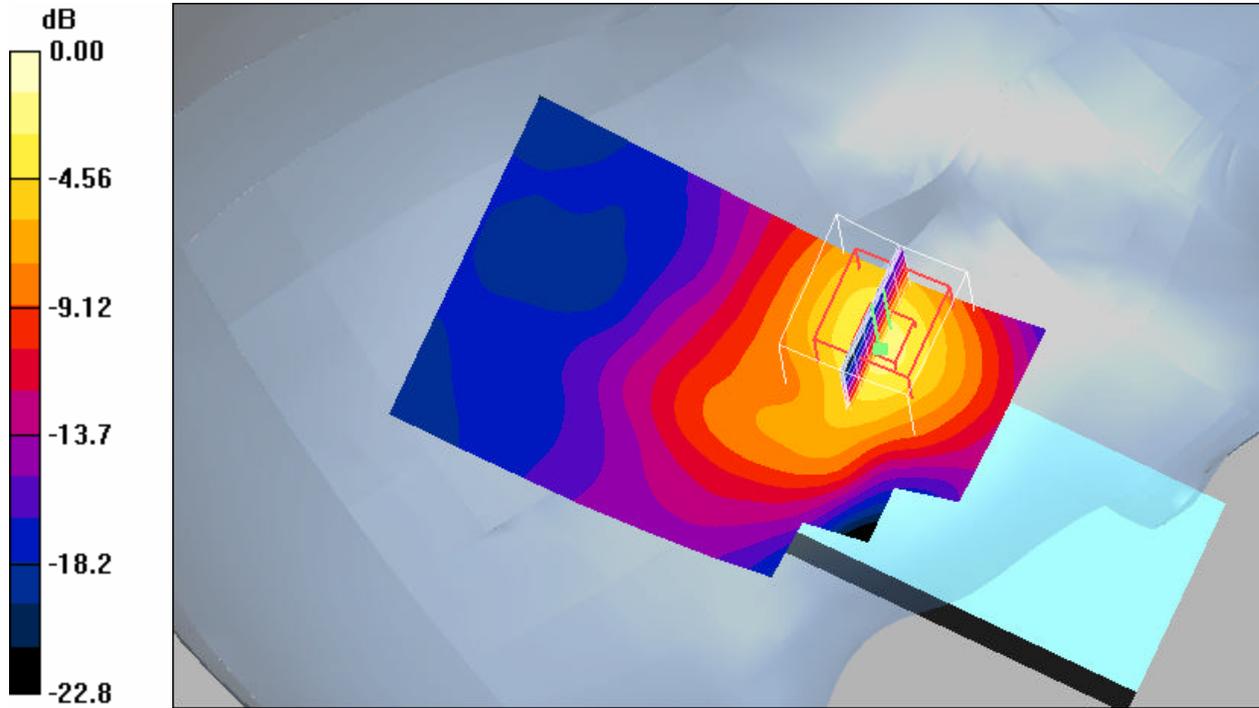
Reference Value = 3.45 V/m; Power Drift = -0.099 dB

Maximum value of SAR (interpolated) = 1.57 mW/g

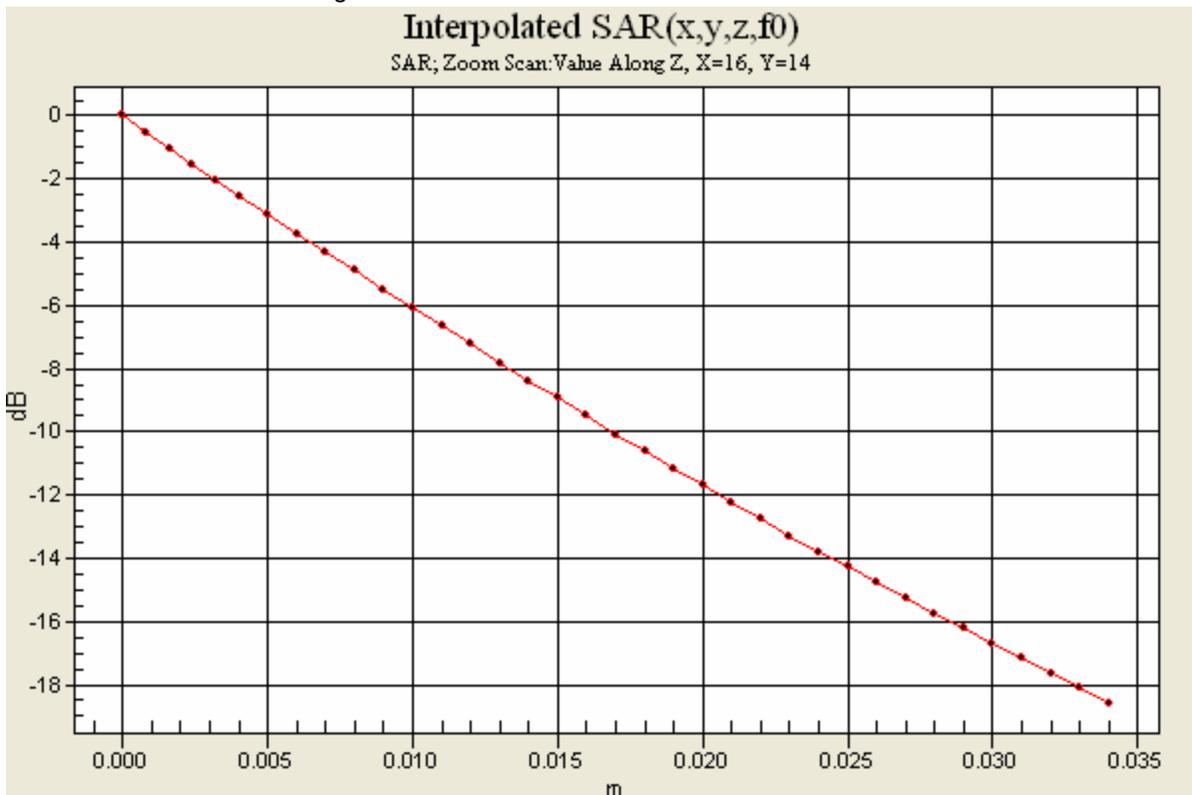


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0 dB = 1.57mW/g





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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJGGQ with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position.**

File Name: [14Feb06_Z525A_GSM1900_JJU4_open_PTT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 30.3% Ambient Temp: 22.9 C Simulant Temp: 23.2 C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1910 MHz; s = 1.48 mho/m; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.130 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.01 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 0.203 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.133 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

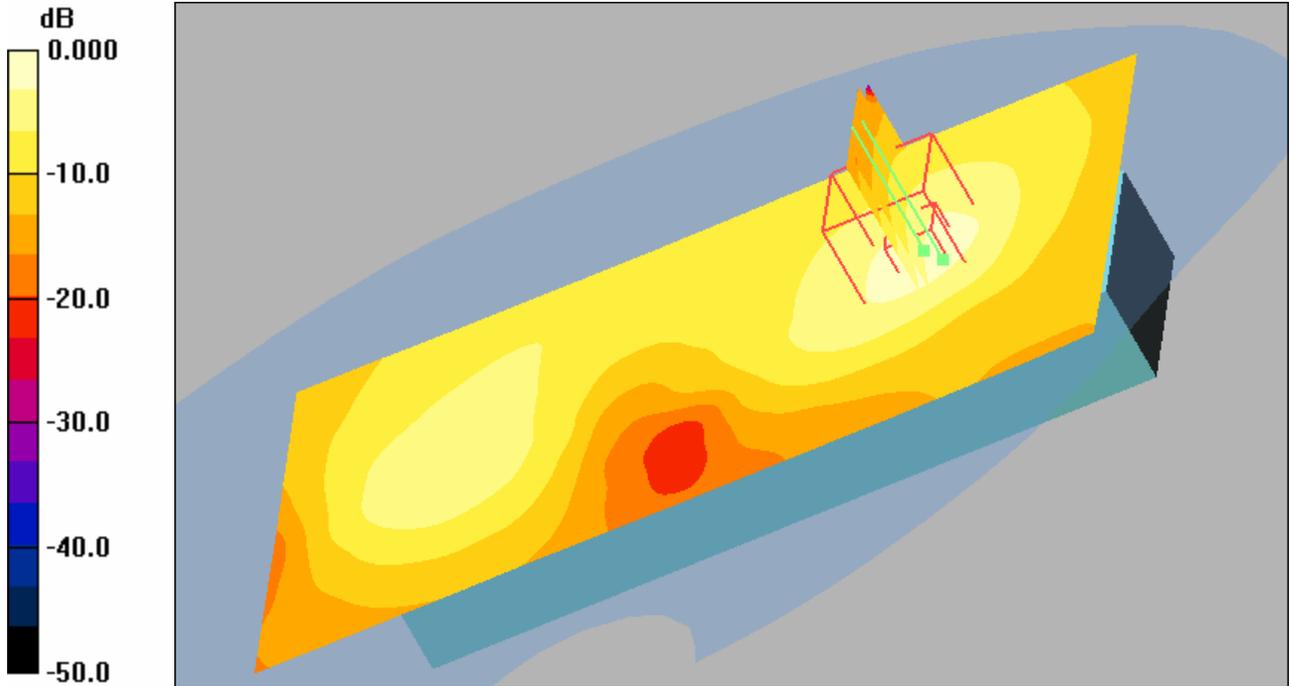
Reference Value = 3.01 V/m; Power Drift = -0.167 dB

Maximum value of SAR (interpolated) = 0.203 mW/g

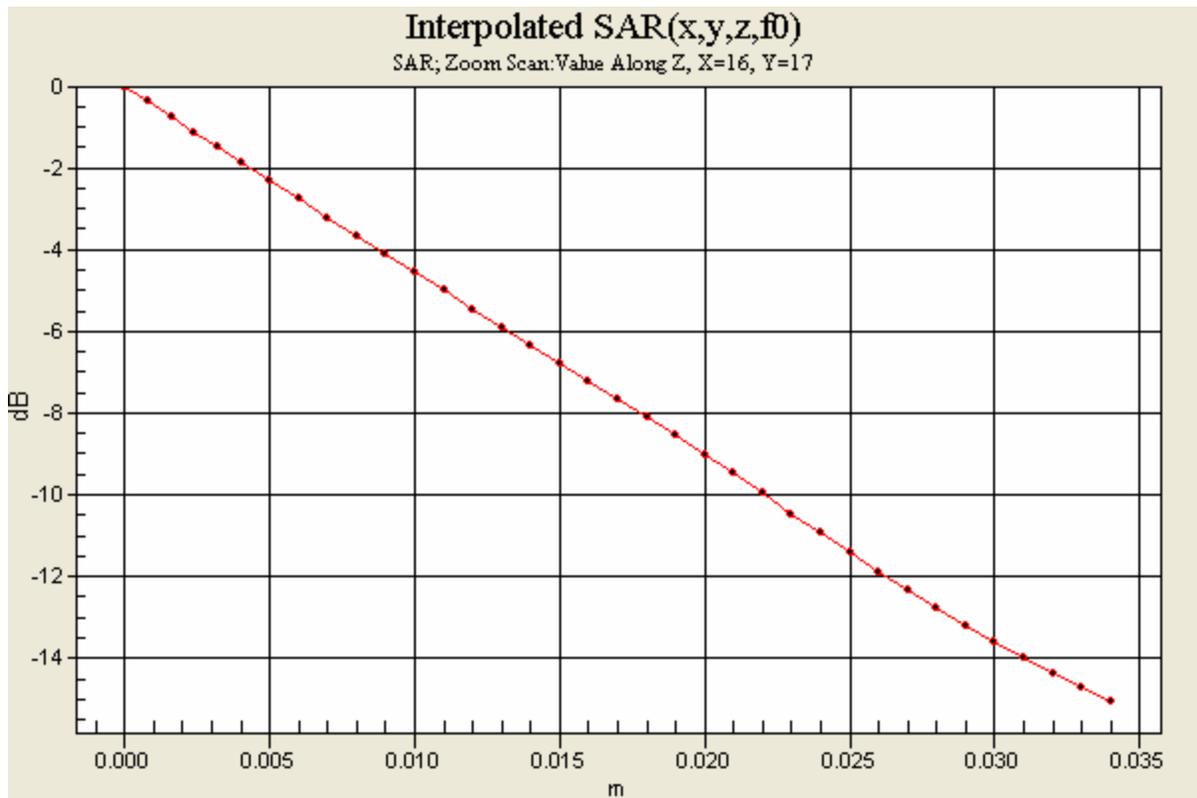


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0 dB = 0.203mW/g





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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJGGQ with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Open Position with Bluetooth on.**

File Name: [14Feb06 Z525A GSM1900 JJU4 open BT PTT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 30.3% Ambient Temp: 22.9 C Simulant Temp: 23.2 C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1910 MHz; s = 1.48 mho/m; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.133 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.91 V/m; Power Drift = -0.088 dB

Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.118 mW/g; SAR(10 g) = 0.068 mW/g

Maximum value of SAR (measured) = 0.130 mW/g

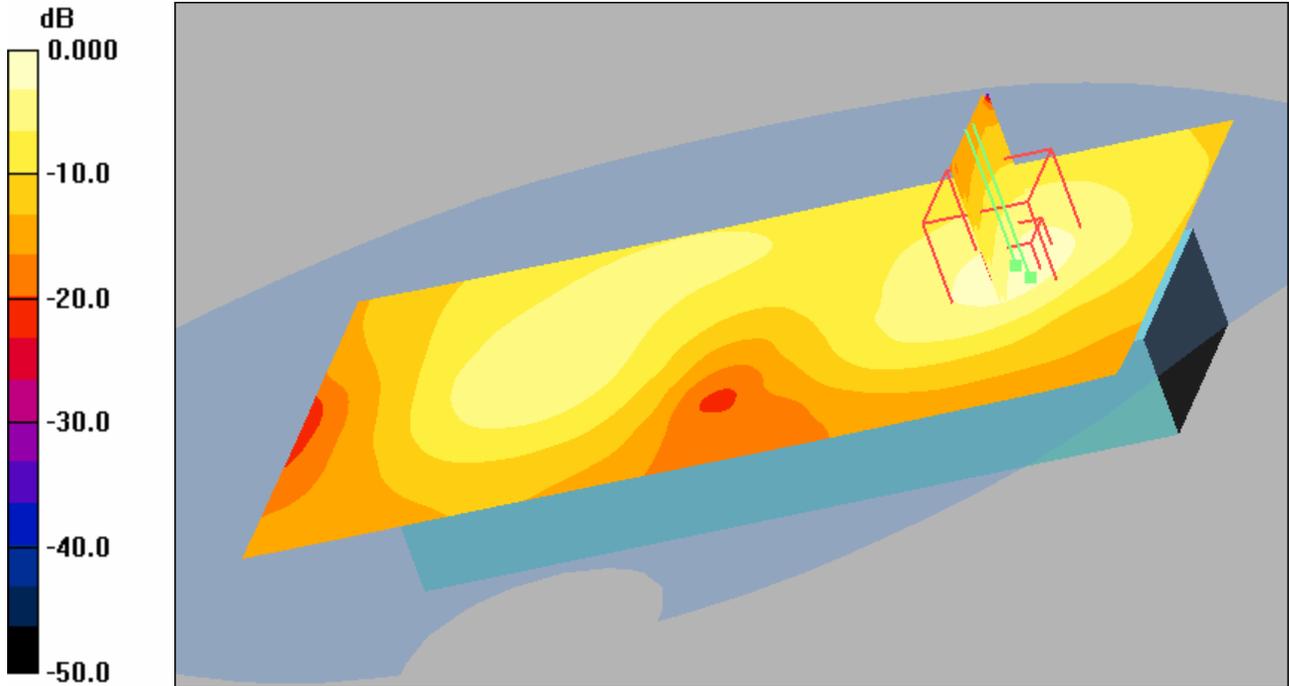
Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.91 V/m; Power Drift = -0.088 dB

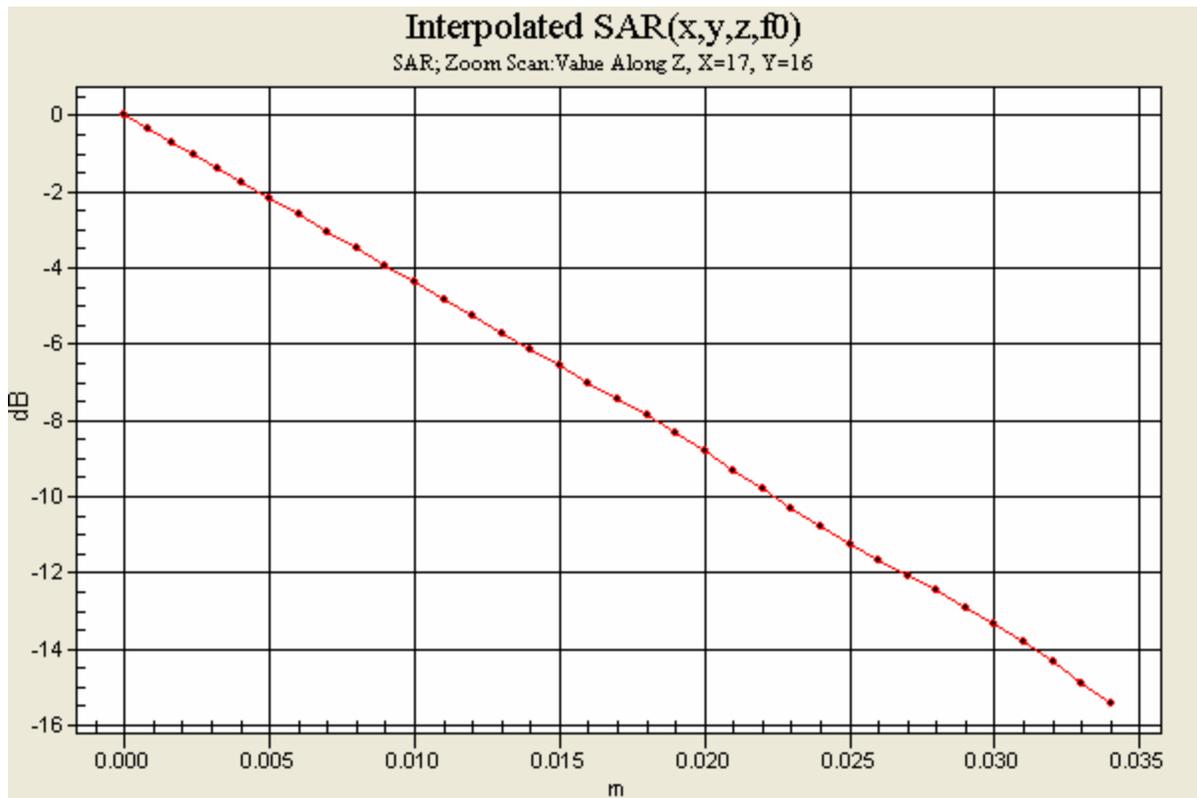
Maximum value of SAR (interpolated) = 0.193 mW/g



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0 dB = 0.193mW/g





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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJGGQ with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Closed Position.**

File Name: [14Feb06 Z525A GSM1900 JJU4 closed PTT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 30.5 % Ambient Temp: 23 C Simulant Temp: 23.1 C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1910 MHz; s = 1.48 mho/m; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.142 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.15 V/m; Power Drift = -0.070 dB

Peak SAR (extrapolated) = 0.205 W/kg

SAR(1 g) = 0.132 mW/g; SAR(10 g) = 0.082 mW/g

Maximum value of SAR (measured) = 0.141 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

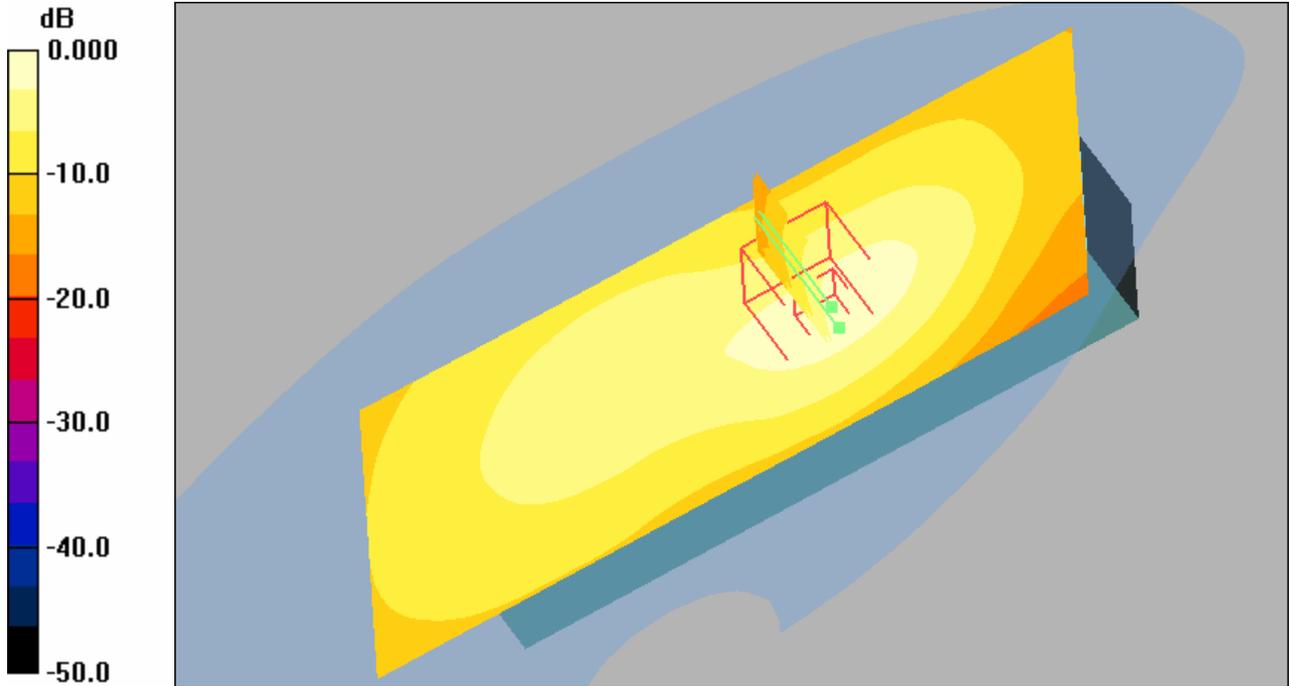
Reference Value = 8.15 V/m; Power Drift = -0.070 dB

Maximum value of SAR (interpolated) = 0.205 mW/g

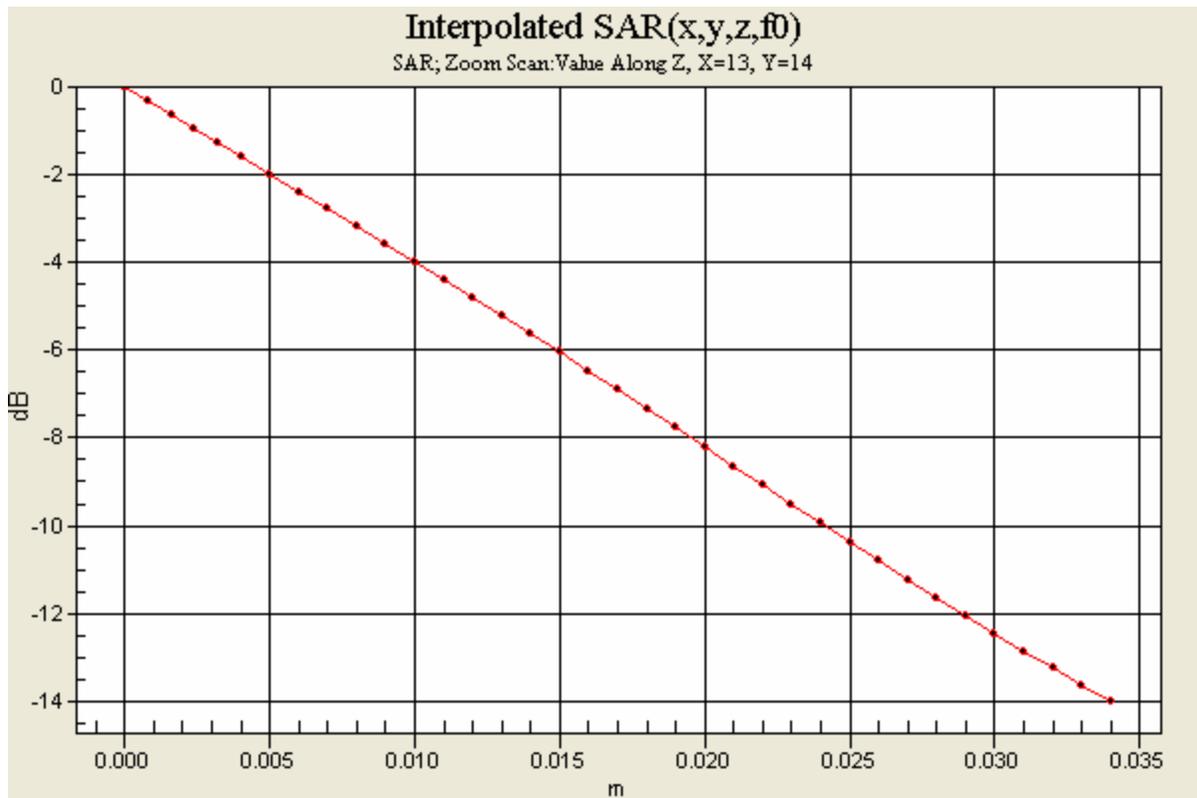


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0 dB = 0.205mW/g





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**1900 GSM Band: SAR Distribution and Extrapolation of Maximum SAR
Model: Z525A SN: BD3ZZYJGGQ with Standard Battery: BST-37
PTT, 25mm Separation, Flat section, Closed Position with Blue Tooth on.**

File Name: [14Feb06 Z525A GSM1900 JJU4 closed BT PTT01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 30.5 % Ambient Temp: 23 C Simulant Temp: 23.1 C

Communication System: DCS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

Medium: Head 1800/1900 MHz Medium parameters used: f = 1910 MHz; s = 1.48 mho/m; $\epsilon_r = 38.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1539; ConvF(4.55, 4.55, 4.55); Calibrated: 11/22/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/10/2005
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

Unnamed procedure 3/Area Scan (71x121x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.133 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.82 V/m; Power Drift = -0.148 dB

Peak SAR (extrapolated) = 0.185 W/kg

SAR(1 g) = 0.121 mW/g; SAR(10 g) = 0.075 mW/g

Maximum value of SAR (measured) = 0.130 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

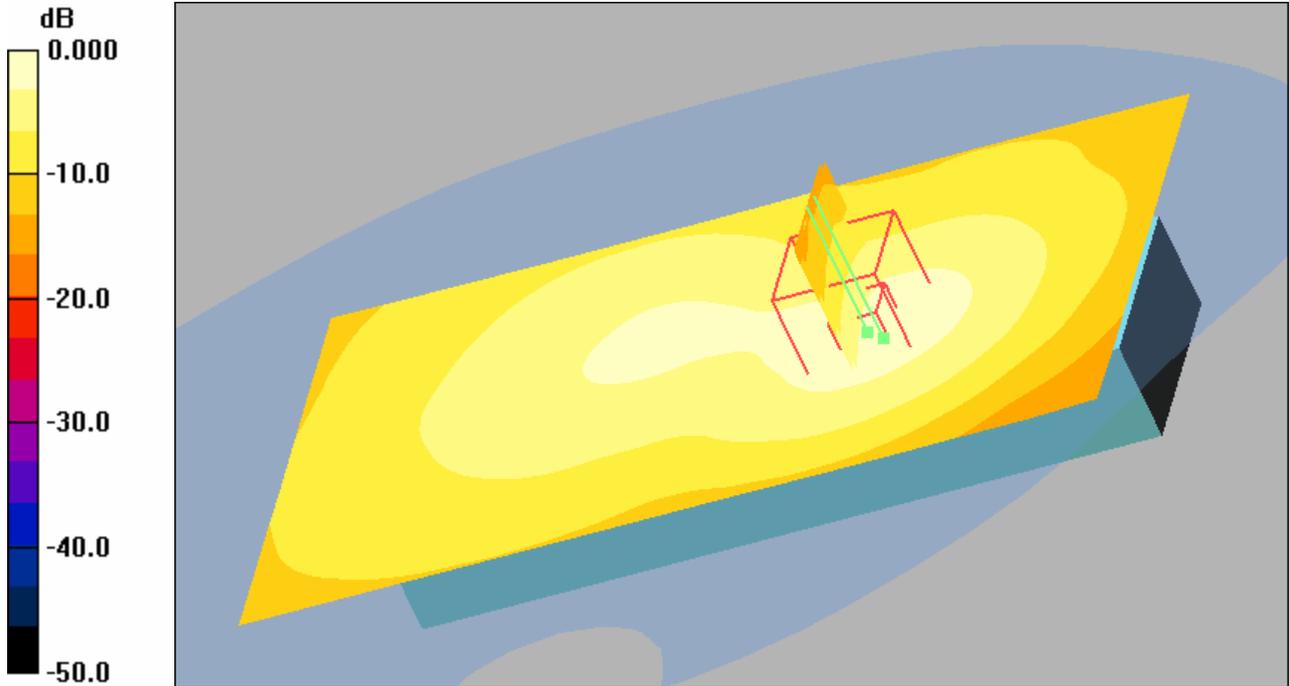
Reference Value = 7.82 V/m; Power Drift = -0.148 dB

Maximum value of SAR (interpolated) = 0.185 mW/g

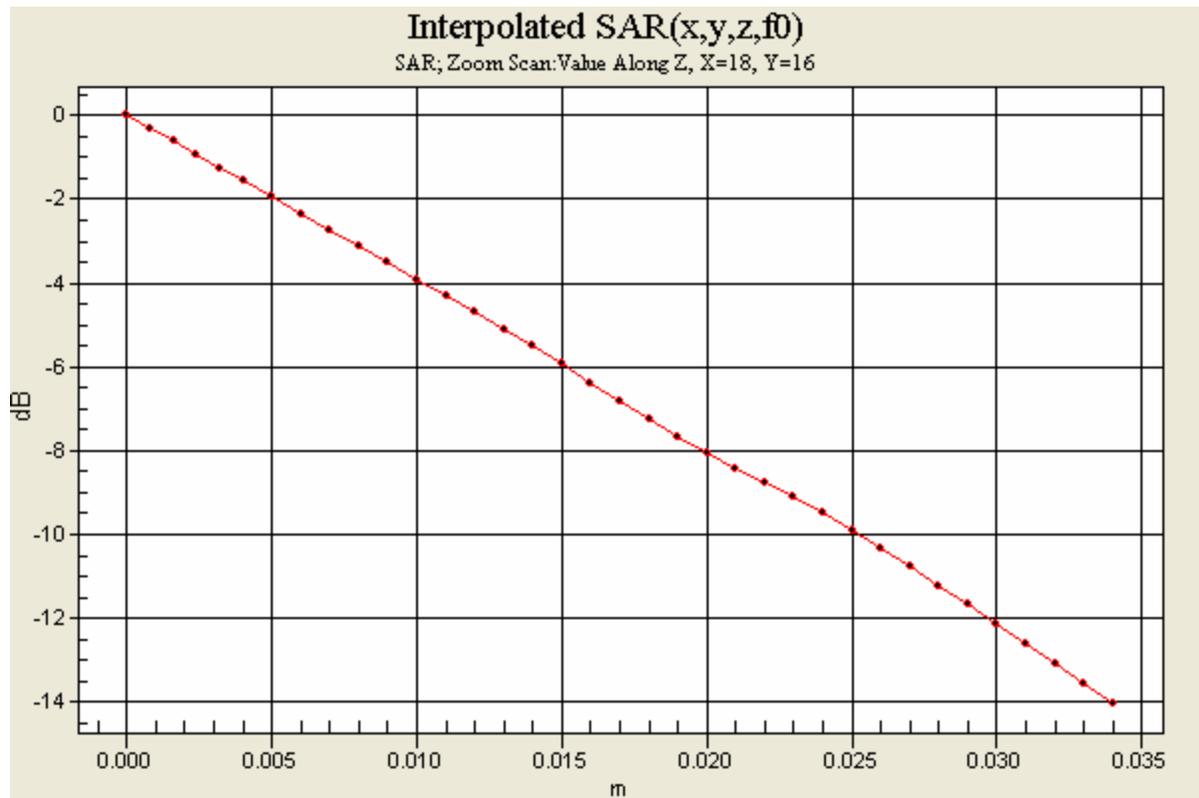


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0 dB = 0.185mW/g



APPLICANT: Sony Ericsson Mobile Communications Inc.

FCC ID: **PY7AC052014**



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Approved SEM/CV/PF/P Gerard Hayes	Checked A X:\SAR Chamber\FCC reports\Z525A\Final

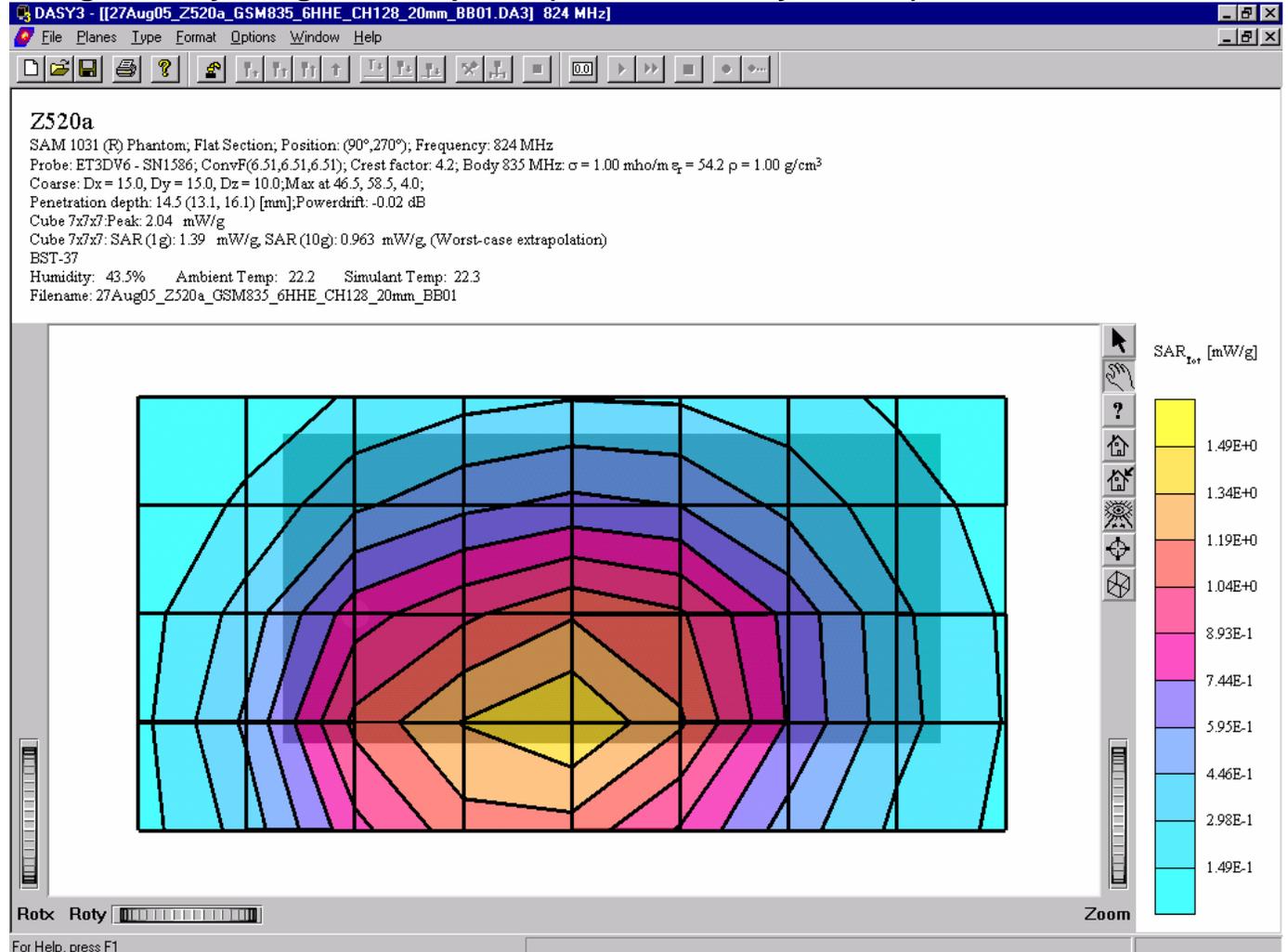
Appendix 3

SAR distribution plots for Body Worn Configuration



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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

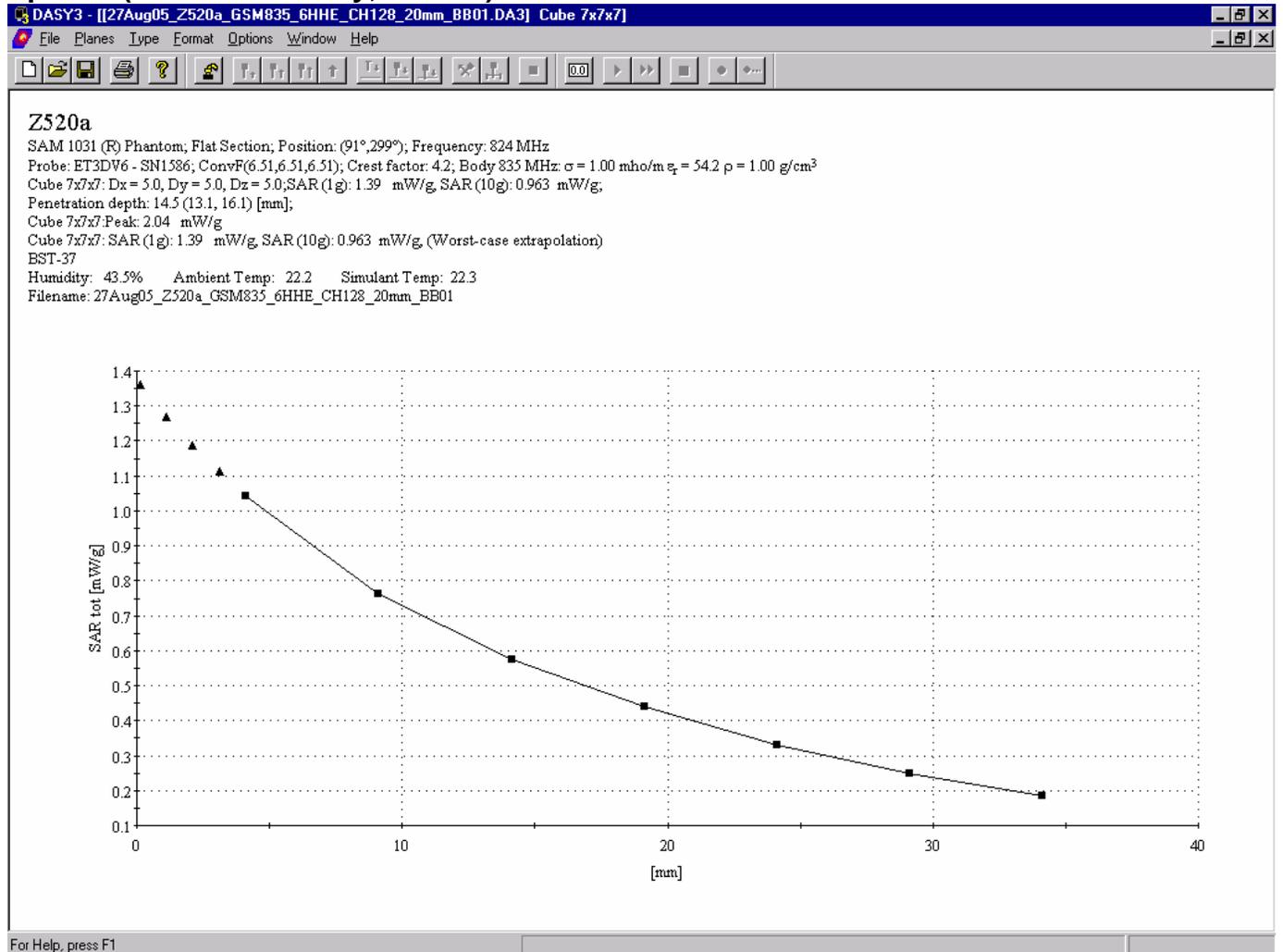
Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 20MM spacer. (Standard Battery, BST-37)





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SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 800 GSM band, while back of the phone is against the body using a 20MM Spacer. (Standard Battery, BST-37)

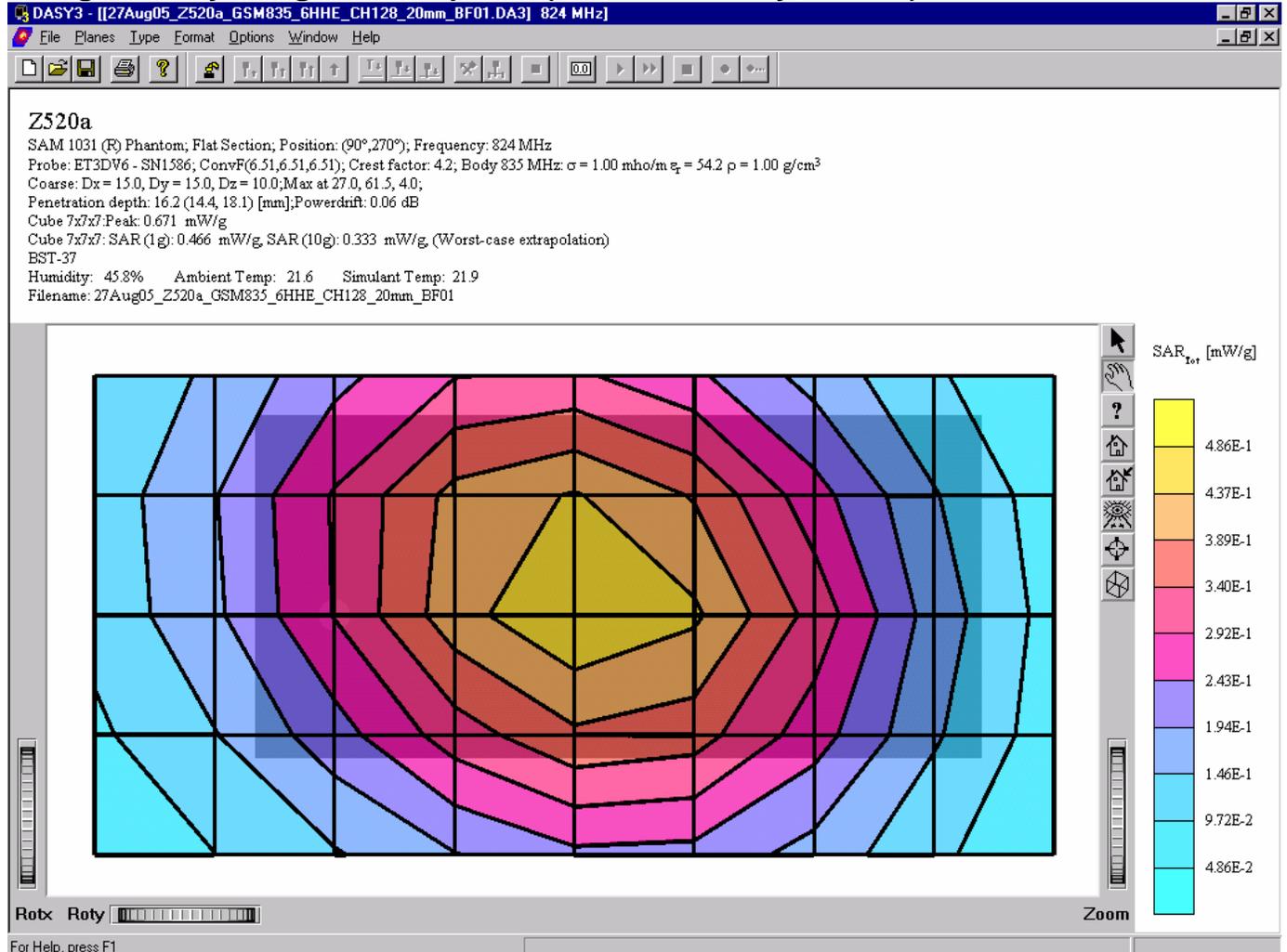




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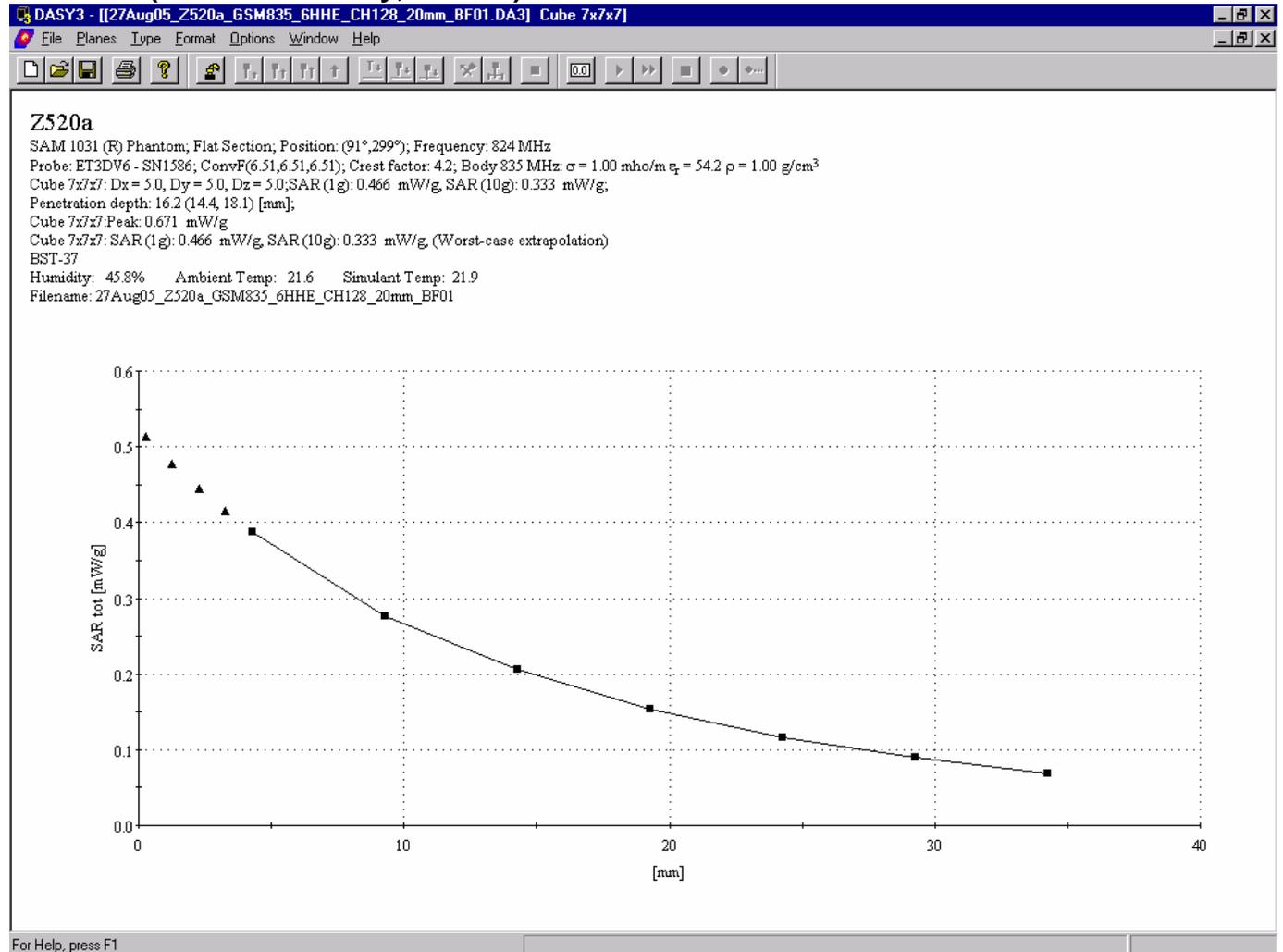
Distribution of maximum SAR in 800 GSM band. Measured with front of device facing the body using a 20MM spacer. (Standard Battery, BST-37)





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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

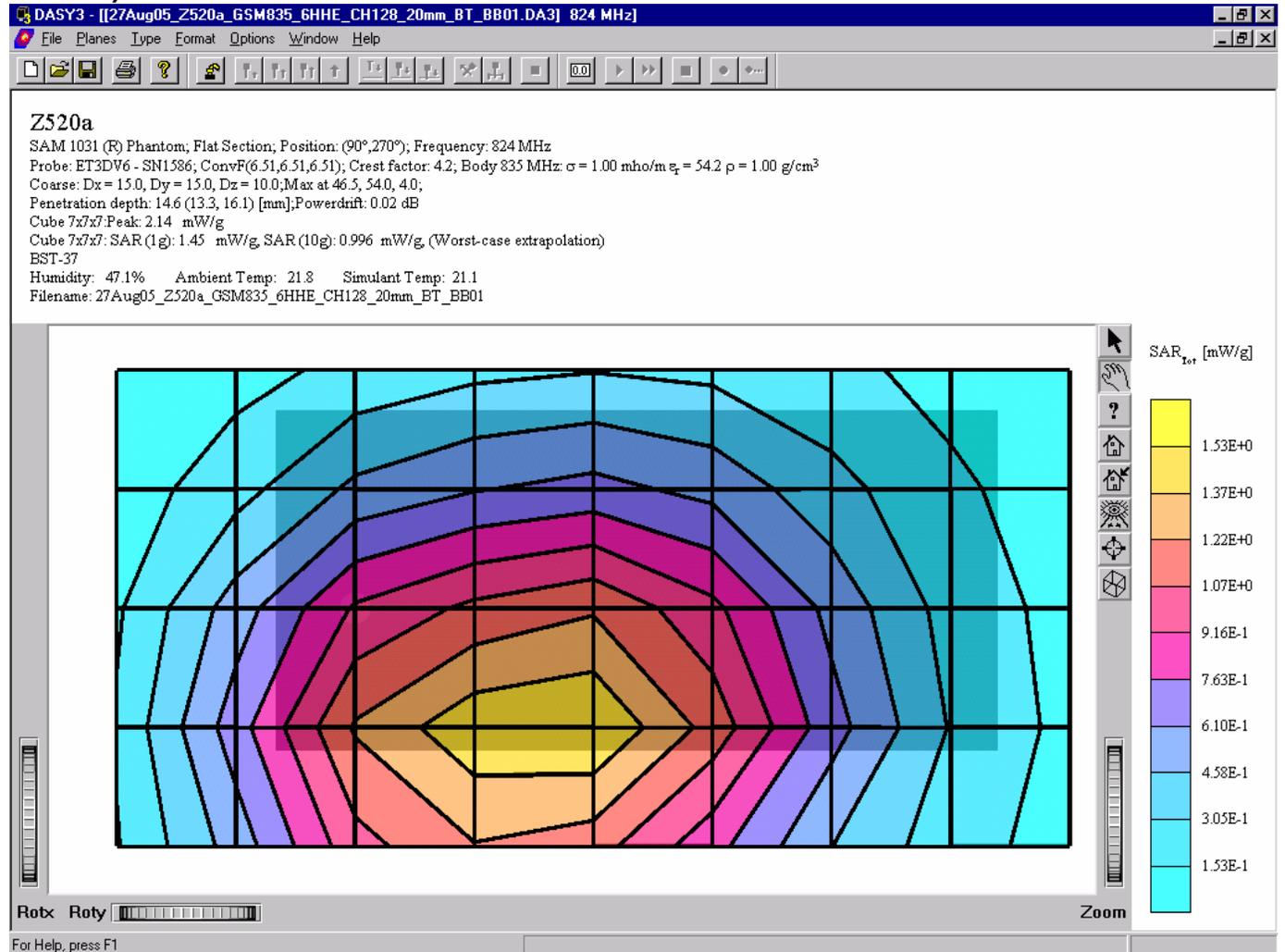
SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 800 GSM band, while front of the phone is against the body using a 20MM SPACER. (Standard Battery, BST-37)





Prepared (also subject responsible if other) SEM/CV/PF/P Gerard Hayes and Rodney Dixon		No. REP 2006 001 Z525A 01	
Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

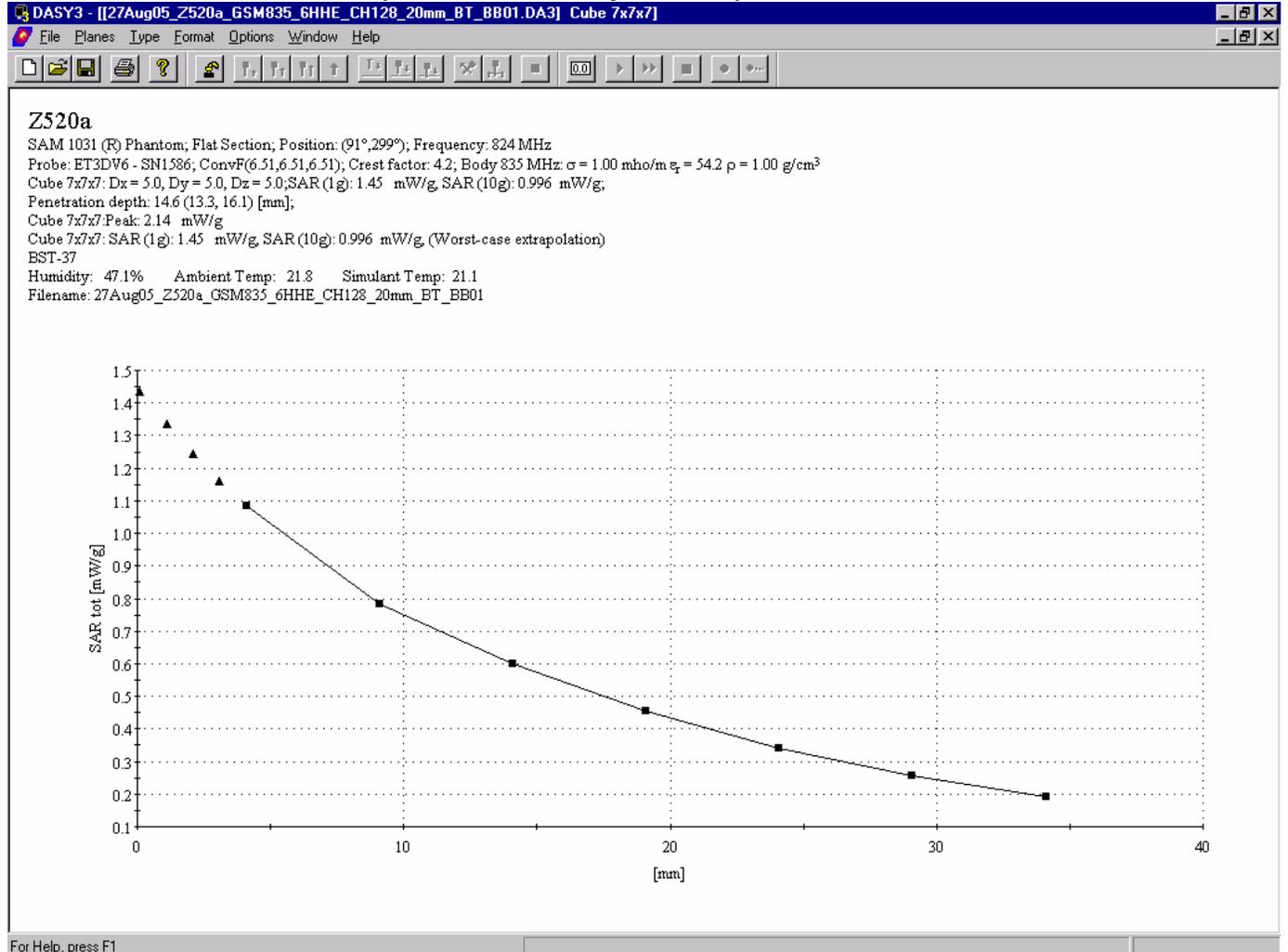
Distribution of maximum SAR in 800 GSM band. Measured with back of device facing the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)





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SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 800 GSM band, while back of the phone is against the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)





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Approved SEM/CV/PF/P Gerard Hayes	Checked A X:\SAR Chamber\FCC reports\Z525A\Final

Distribution of maximum SAR in 900 GSM band. Measured with back of device facing the body using a 20MM spacer. (Standard Battery, BST-37)

Date/Time: 8/25/2005 12:35:01 PM Date/Time: 8/25/2005 12:40:29 PM

File Name: [25Aug05_Z525A_GSM900_66Q7_20mm_BB01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 45.4% Ambient Temp: 22.3 Simulant Temp: 22

Communication System: GSM 900 body; Frequency: 890.2 MHz; Duty Cycle: 1:4.15

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 890.2 MHz; s = 0.933 mho/m; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.483 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.311 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.483 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = 0.01 dB

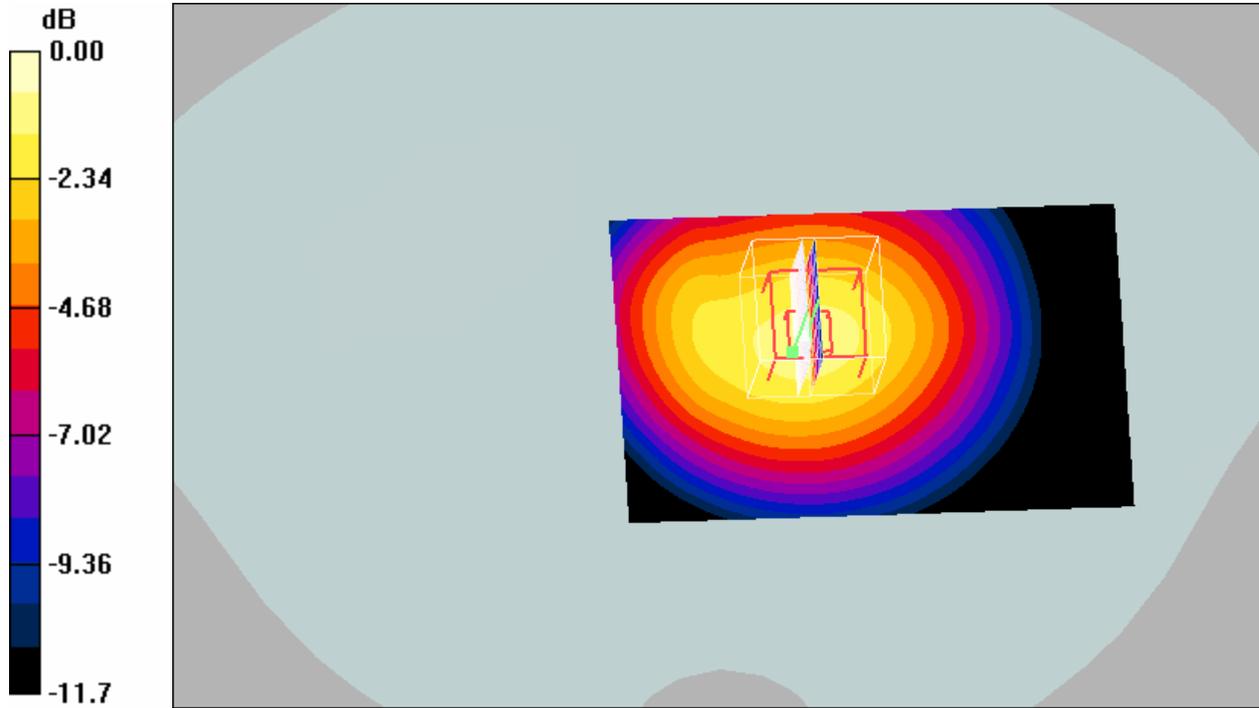
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.622 mW/g

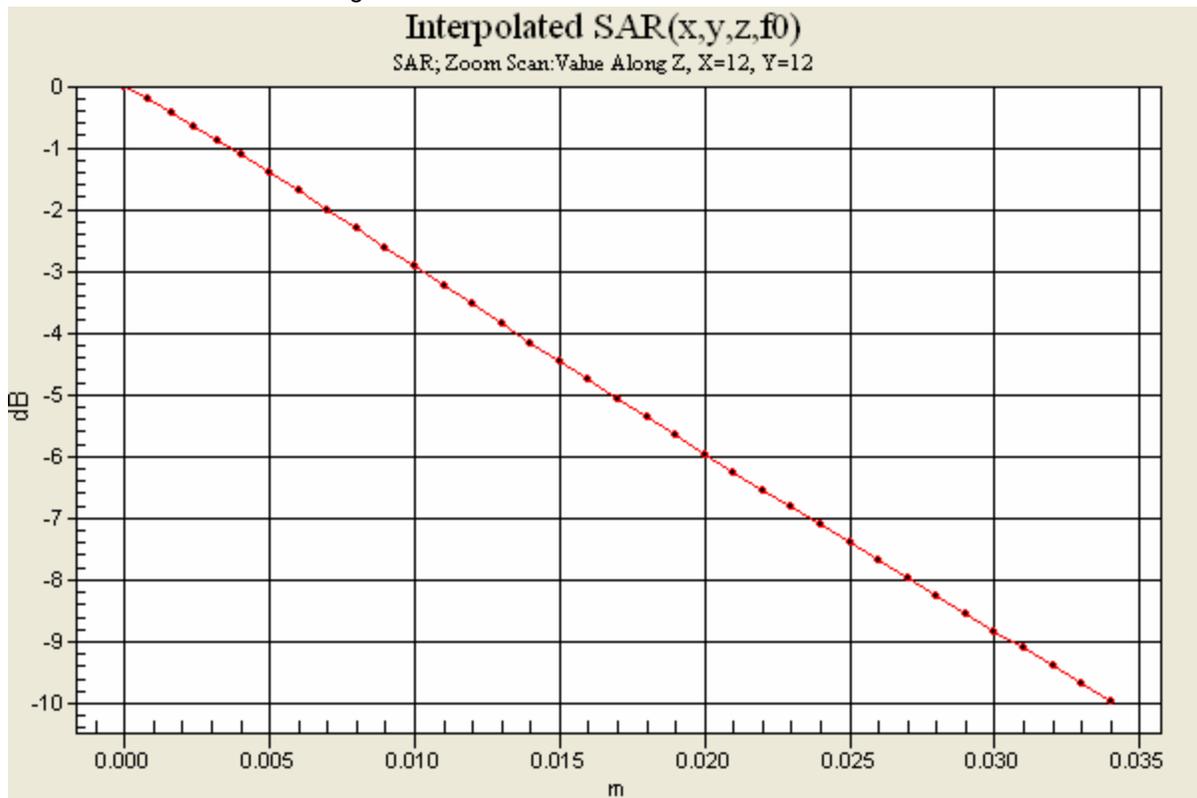


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0 dB = 0.622mW/g





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Distribution of maximum SAR in 900 GSM band. Measured with front of device facing the body using a 20MM spacer. (Standard Battery, BST-37)

Date/Time: 8/25/2005 10:12:03 AM Date/Time: 8/25/2005 10:17:17 AM

File Name: [25Aug05_Z525A_GSM900_66Q7_20mm_BF01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 42.8% Ambient Temp: 22.4 Simulant Temp: 22.1

Communication System: GSM 900 body; Frequency: 890.2 MHz; Duty Cycle: 1:4.15

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 890.2 MHz; s = 0.933 mho/m; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn417; Calibrated: 11/11/2004
- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.156 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.55 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.148 mW/g; SAR(10 g) = 0.105 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.158 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.55 V/m; Power Drift = 0.024 dB

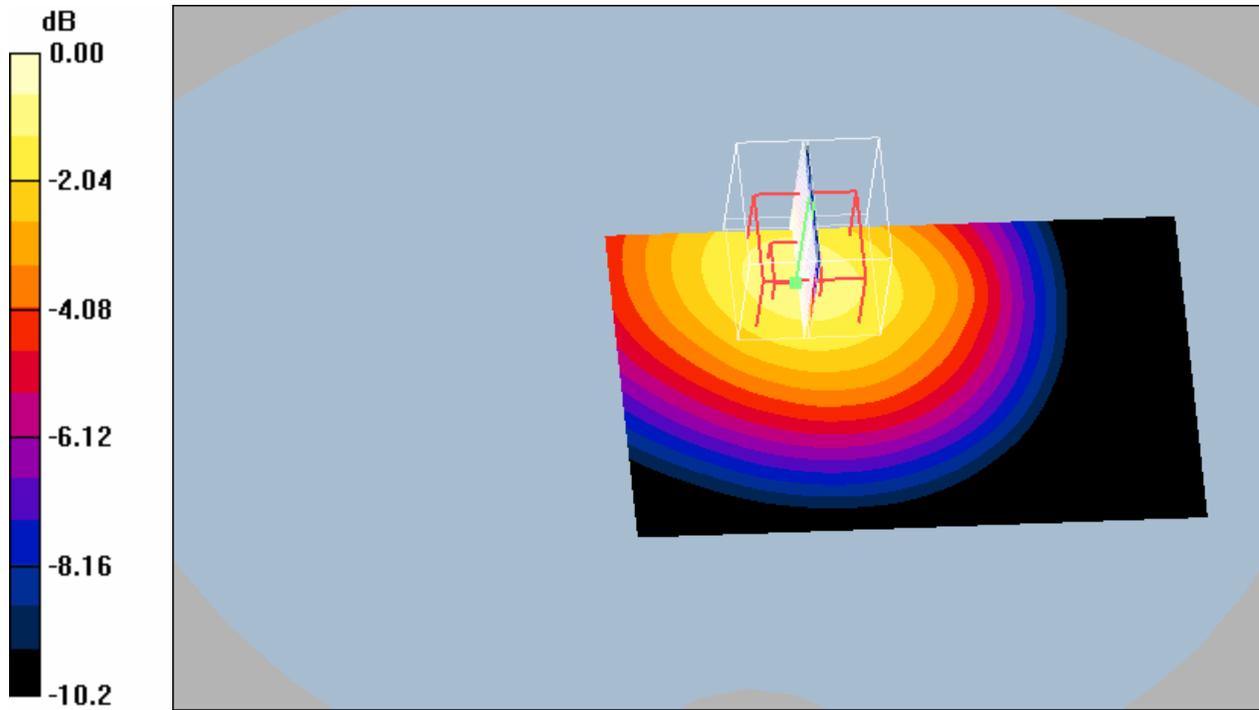
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.196 mW/g

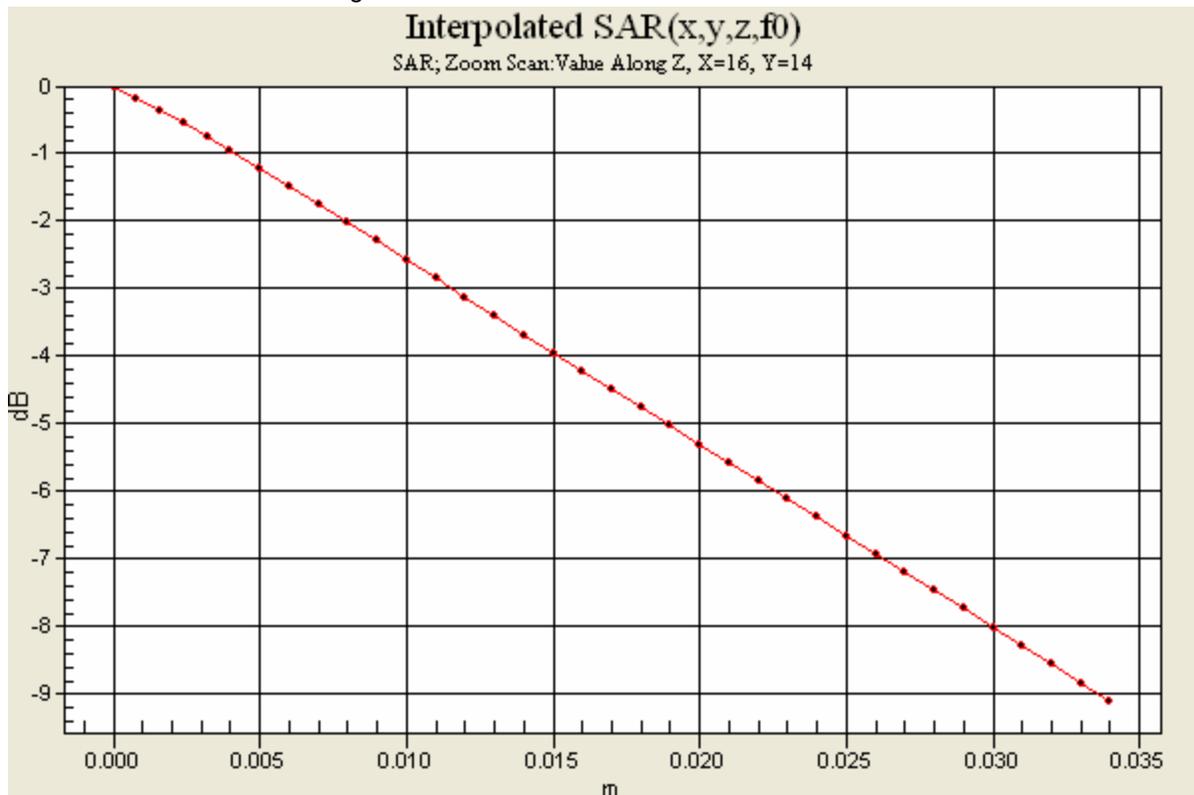


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0 dB = 0.196mW/g





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Distribution of maximum SAR in 900 GSM band. Measured with back of device facing the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)

Date/Time: 8/25/2005 12:15:10 PM Date/Time: 8/25/2005 12:20:23 PM

File Name: [25Aug05_Z525A_GSM900_66Q7_20mm_BT_BB01.da4](#)

DUT: Z525A

Program Notes: Battery BST-37 Humidity: 41.1% Ambient Temp: 23.8 Simulant Temp: 22.7

Communication System: GSM 900 body; Frequency: 890.2 MHz; Duty Cycle: 1:4.15

Medium: Head 835/900 MHz Medium parameters used (interpolated): f = 890.2 MHz; s = 0.933 mho/m; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1586; ConvF(6.46, 6.46, 6.46); Calibrated: 5/26/2005

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn417; Calibrated: 11/11/2004

- Phantom: SAM with CRP (Low Band Head); Type: SAM; Serial: 1251

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.477 mW/g

Unnamed procedure/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = 0.026 dB

Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.454 mW/g; SAR(10 g) = 0.310 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.486 mW/g

Unnamed procedure/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.2 V/m; Power Drift = 0.026 dB

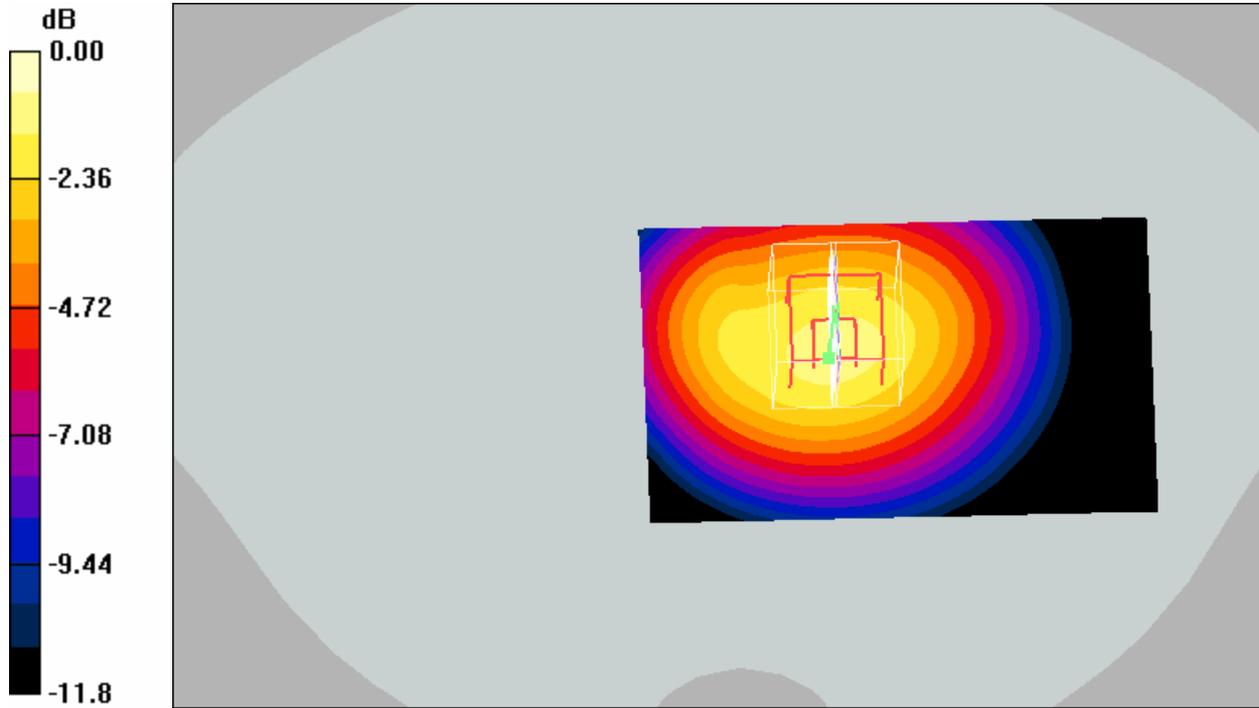
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.626 mW/g

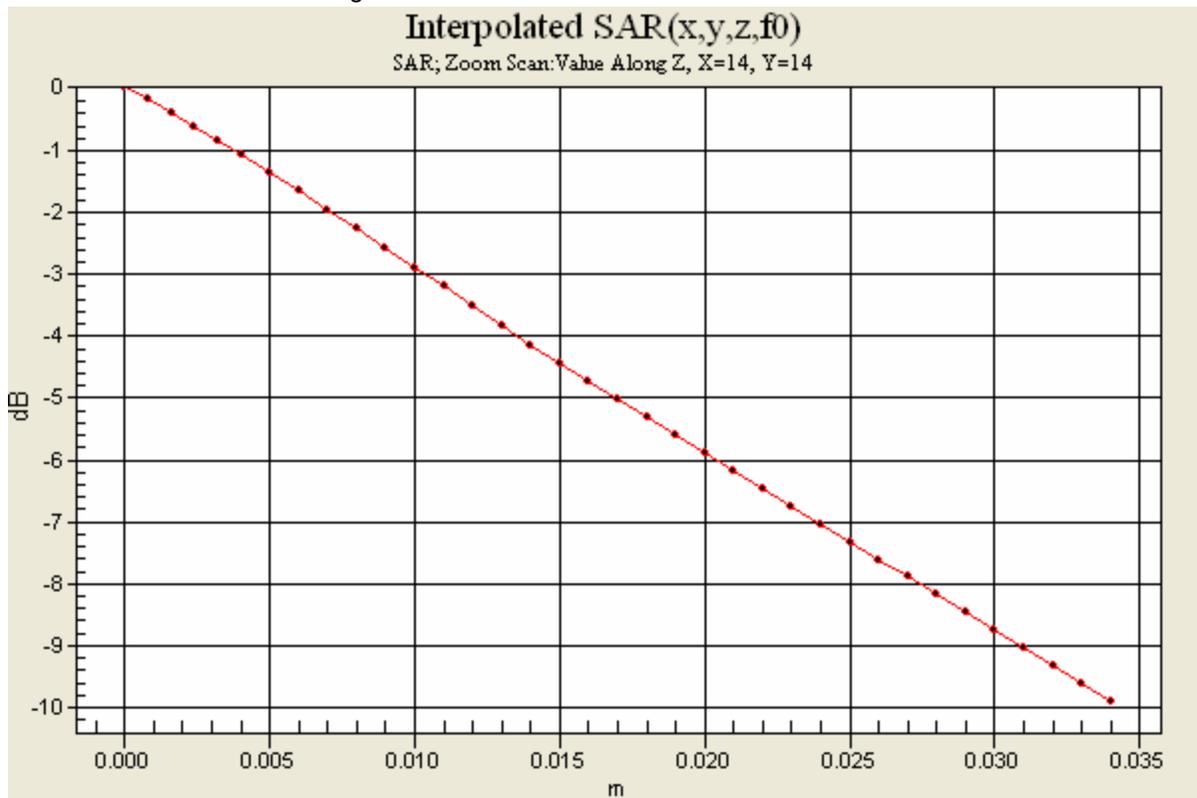


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0 dB = 0.626mW/g





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Distribution of maximum SAR in 1800 GSM band. Measured with back of device facing the body using a 20MM spacer. (Standard Battery, BST-37)

Date/Time: 8/26/2005 1:44:03 PM Date/Time: 8/26/2005 1:49:11 PM

File Name: [26Aug05_Z525A_GSM1800_66ZH_20mm_BB01.da4](#)

DUT: Z525A

Program Notes: BST37 Humidity 51.5% Ambient Temp 22.2 Simulant Temp 21

Communication System: GSM 1800 body; Frequency: 1784.8 MHz; Duty Cycle: 1:4.15

Medium: Body 1800 MHz Medium parameters used (interpolated): f = 1784.8 MHz; s = 1.36 mho/m; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.45, 5.45, 5.45); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.319 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.084 dB

Peak SAR (extrapolated) = 0.453 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.178 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.305 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.5 V/m; Power Drift = 0.084 dB

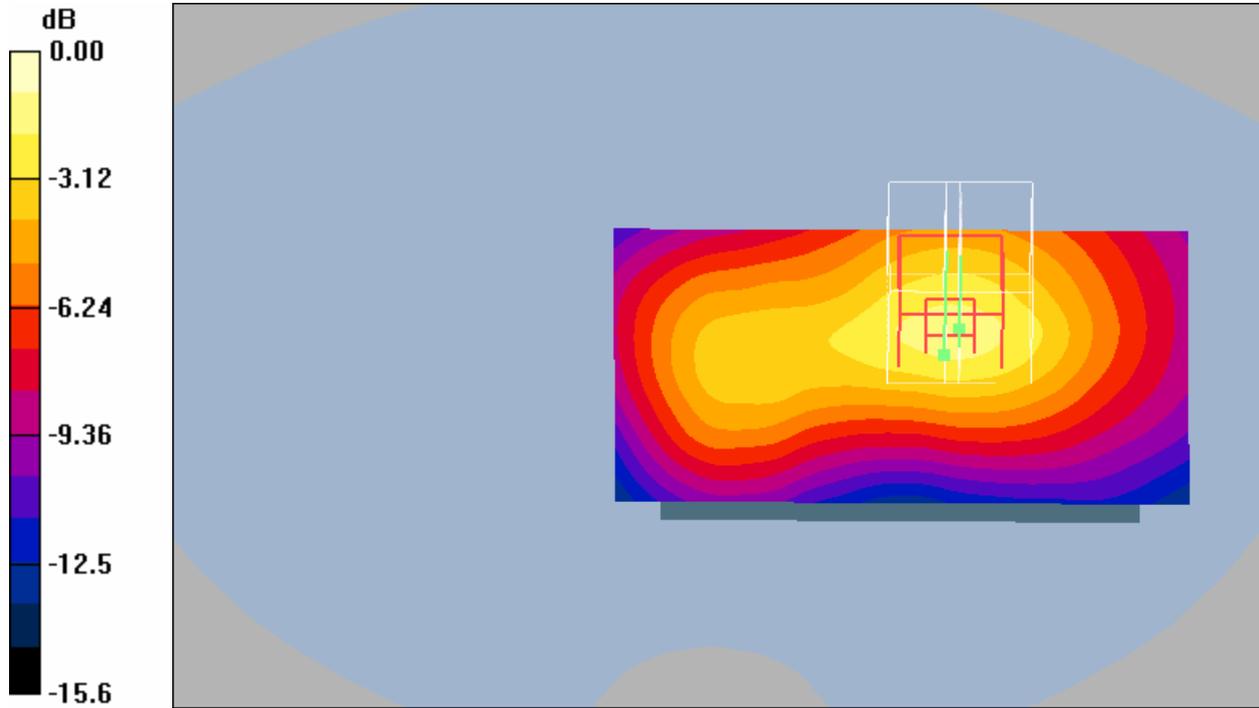
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.453 mW/g

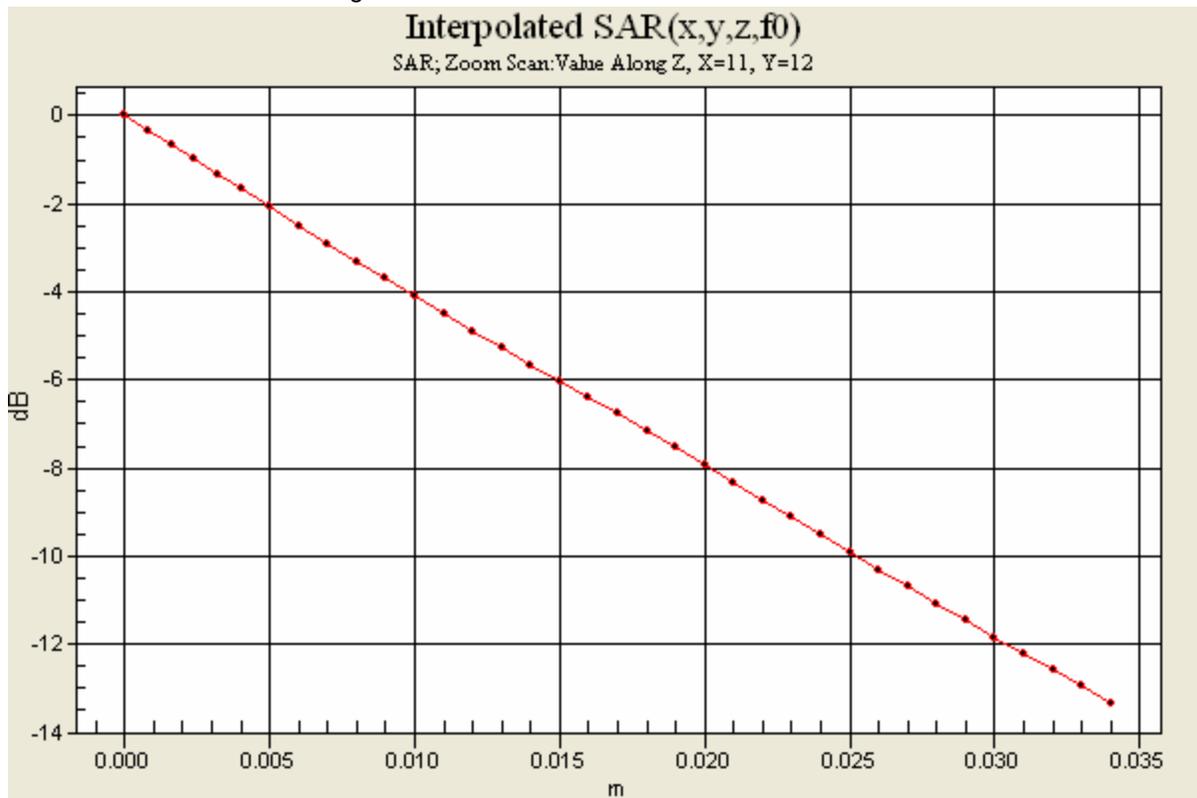


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0 dB = 0.453mW/g





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Distribution of maximum SAR in 1800 GSM band. Measured with front of device facing the body using a 20MM spacer. (Standard Battery, BST-37)

Date/Time: 8/26/2005 2:02:01 PM Date/Time: 8/26/2005 2:07:08 PM

File Name: [26Aug05_Z525A_GSM1800_66ZH_20mm_BF01.da4](#)

DUT: Z525A

Program Notes: BST37 Humidity 48.8% Ambient Temp 22.3 Simulant Temp 20.4

Communication System: GSM 1800 body; Frequency: 1784.8 MHz; Duty Cycle: 1:4.15

Medium: Body 1800 MHz Medium parameters used (interpolated): f = 1784.8 MHz; s = 1.36 mho/m; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.45, 5.45, 5.45); Calibrated: 5/26/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn345; Calibrated: 11/12/2004
- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.303 mW/g

Unnamed procedure 3/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.301 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.63 V/m; Power Drift = -0.194 dB

Peak SAR (extrapolated) = 0.428 W/kg

SAR(1 g) = 0.280 mW/g; SAR(10 g) = 0.173 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.302 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.63 V/m; Power Drift = -0.194 dB

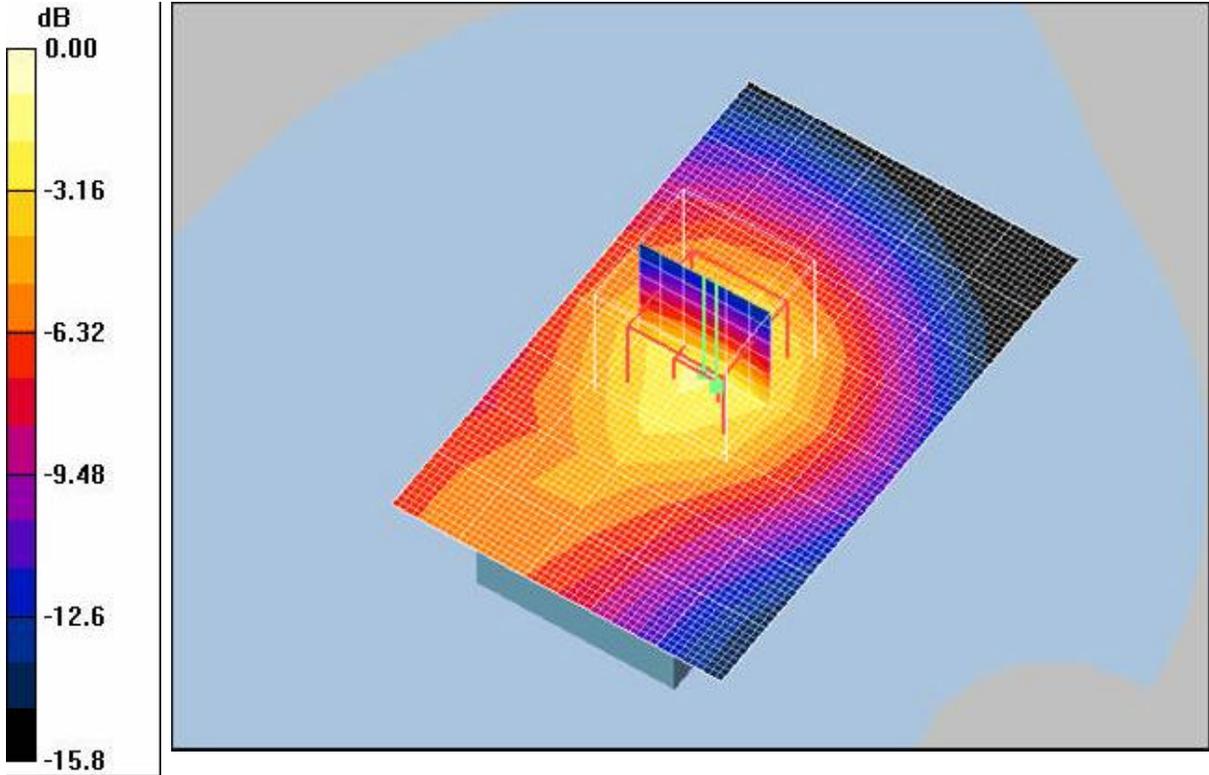
[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.428 mW/g

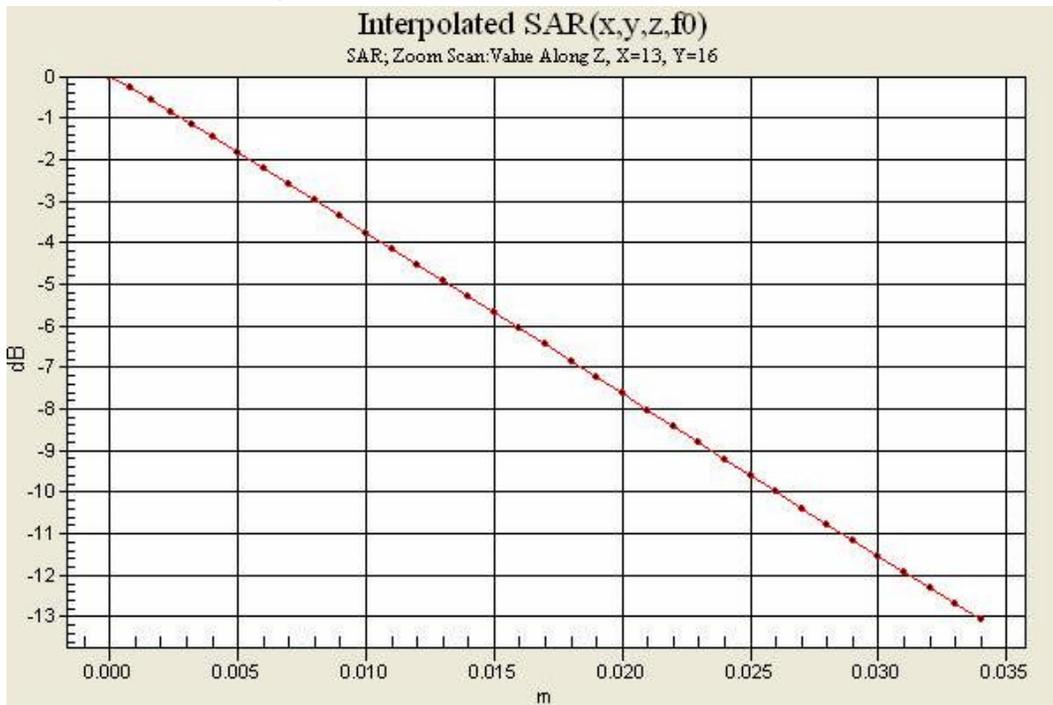


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0 dB = 0.428mW/g





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Distribution of maximum SAR in 1800 GSM band. Measured with back of device facing the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)

Date/Time: 8/26/2005 2:46:17 PM Date/Time: 8/26/2005 2:51:24 PM

File Name: [26Aug05_Z525A_GSM1800_66ZH_20mm_BT_BB01.da4](#)

DUT: Z525A

Program Notes: BST37 Humidity 49.3% Ambient Temp 22.5 Simulant Temp 21.1

Communication System: GSM 1800 body; Frequency: 1784.8 MHz; Duty Cycle: 1:4.15

Medium: Body 1800 MHz Medium parameters used (interpolated): $f = 1784.8 \text{ MHz}$; $s = 1.36 \text{ mho/m}$; $\epsilon_r = 39.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1587; ConvF(5.45, 5.45, 5.45); Calibrated: 5/26/2005

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn345; Calibrated: 11/12/2004

- Phantom: SAM with CRP (High Band Head); Type: SAM; Serial: TP: 1054

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Unnamed procedure 3/Area Scan (51x81x1):

Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (interpolated) = 0.321 mW/g

Unnamed procedure 3/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 13.3 V/m; Power Drift = -0.034 dB

Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.293 mW/g; SAR(10 g) = 0.180 mW/g

[Info: Interpolated medium parameters used for SAR evaluation!](#)

Maximum value of SAR (measured) = 0.319 mW/g

Unnamed procedure 3/Zoom Scan (31x31x36)/Cube 0:

Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

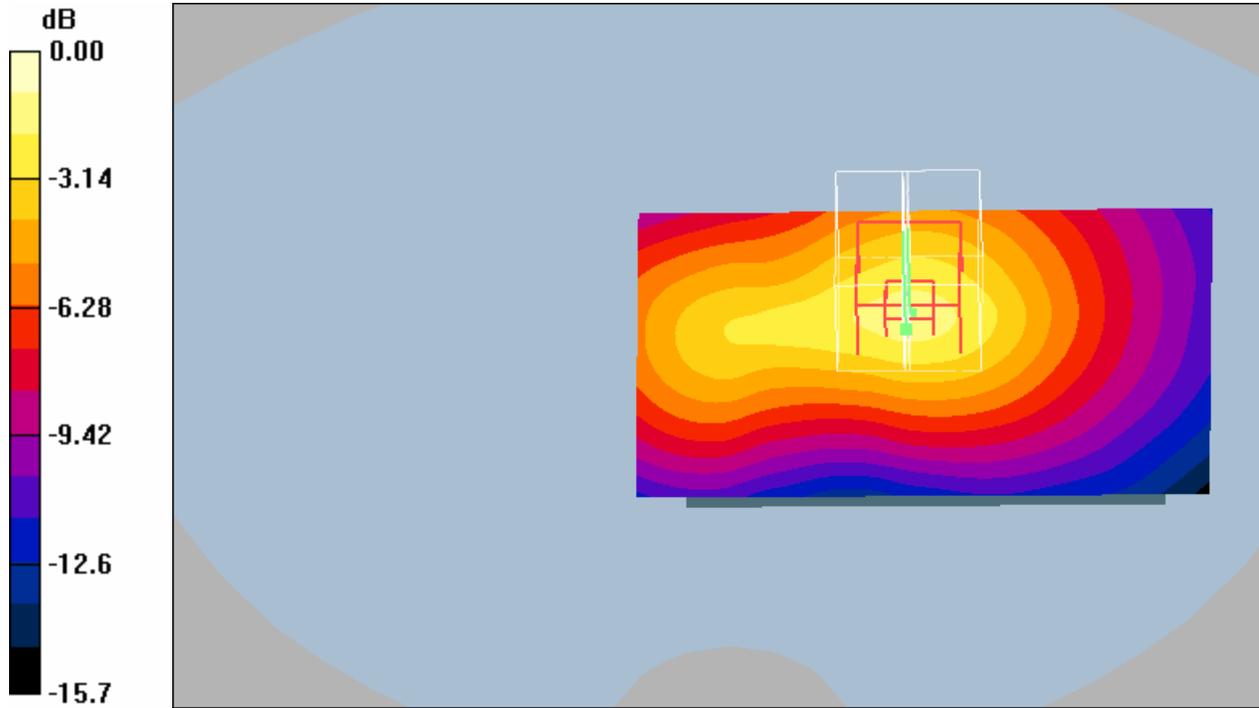
Reference Value = 13.3 V/m; Power Drift = -0.034 dB

[Info: Interpolated medium parameters used for SAR evaluation!](#)

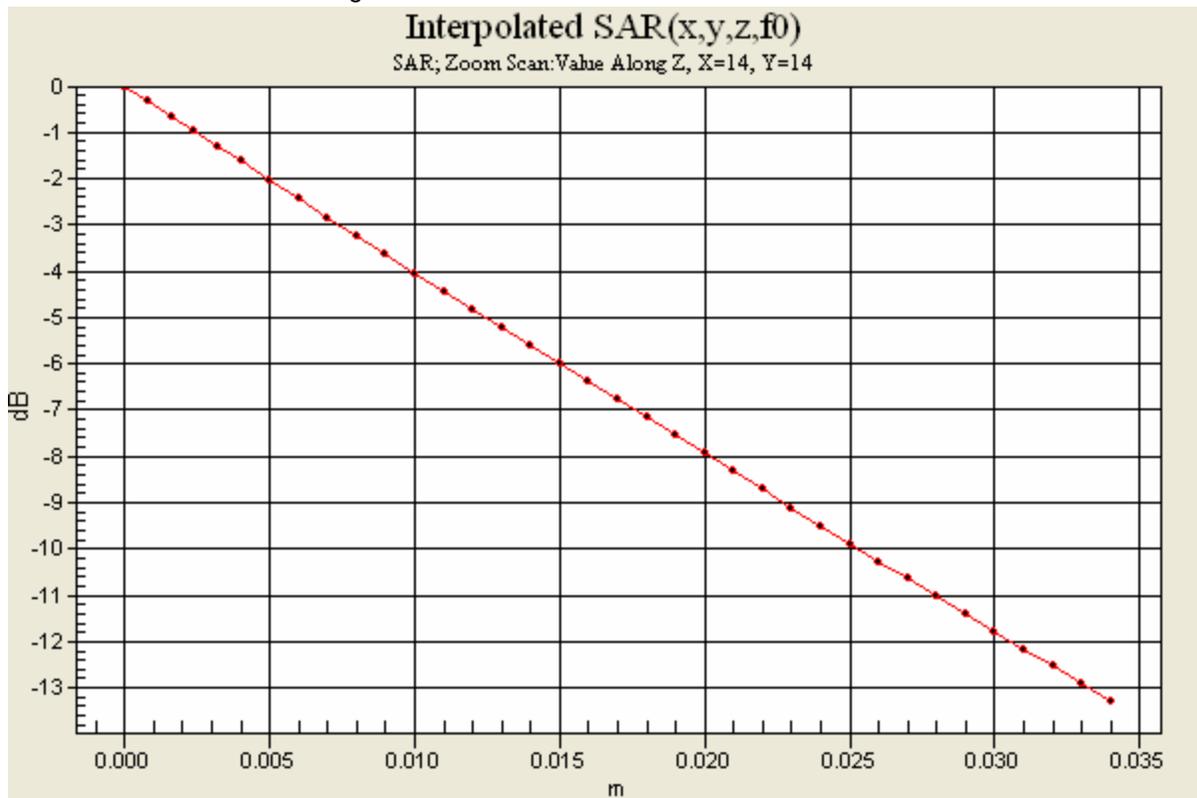
Maximum value of SAR (interpolated) = 0.464 mW/g



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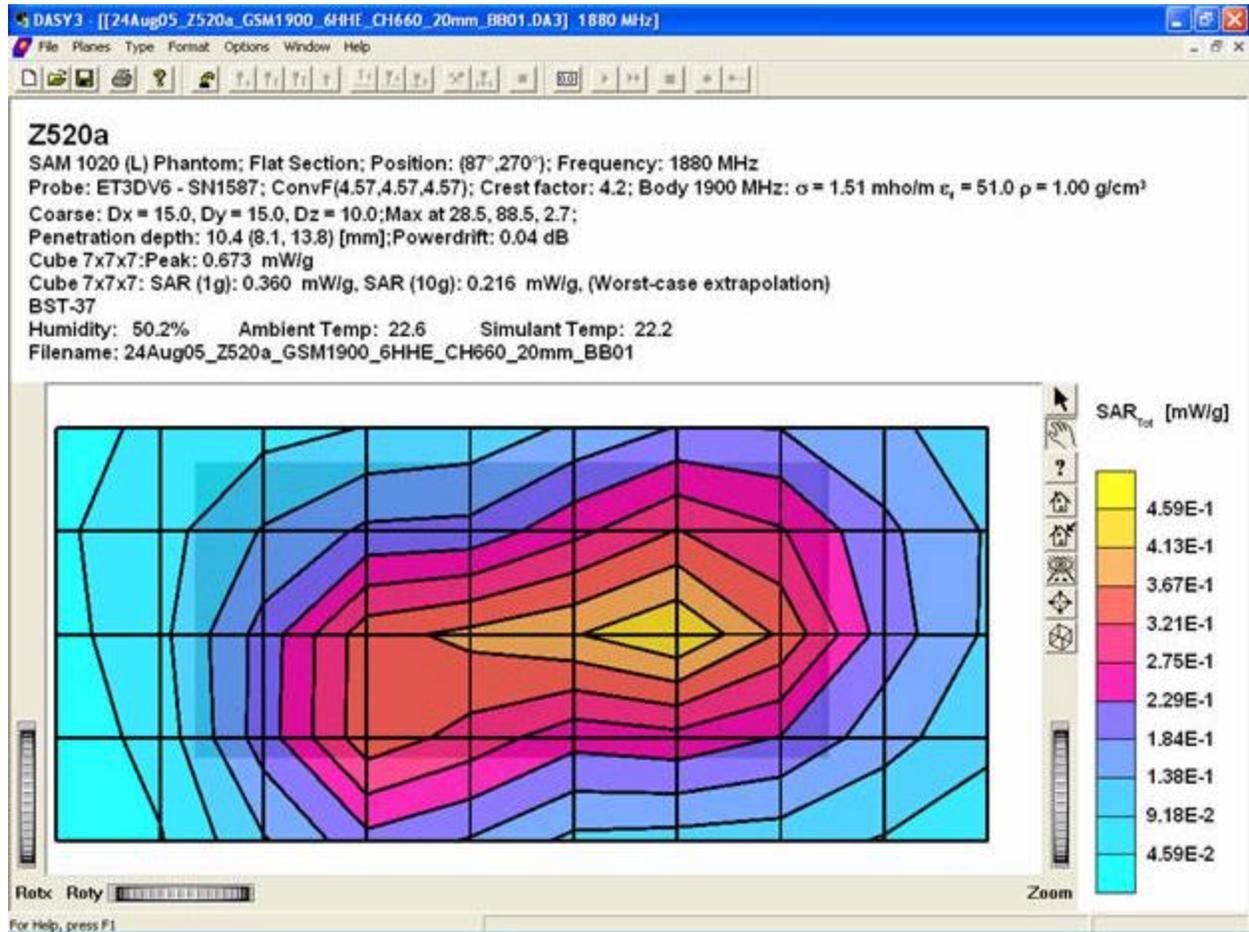
0 dB = 0.464mW/g





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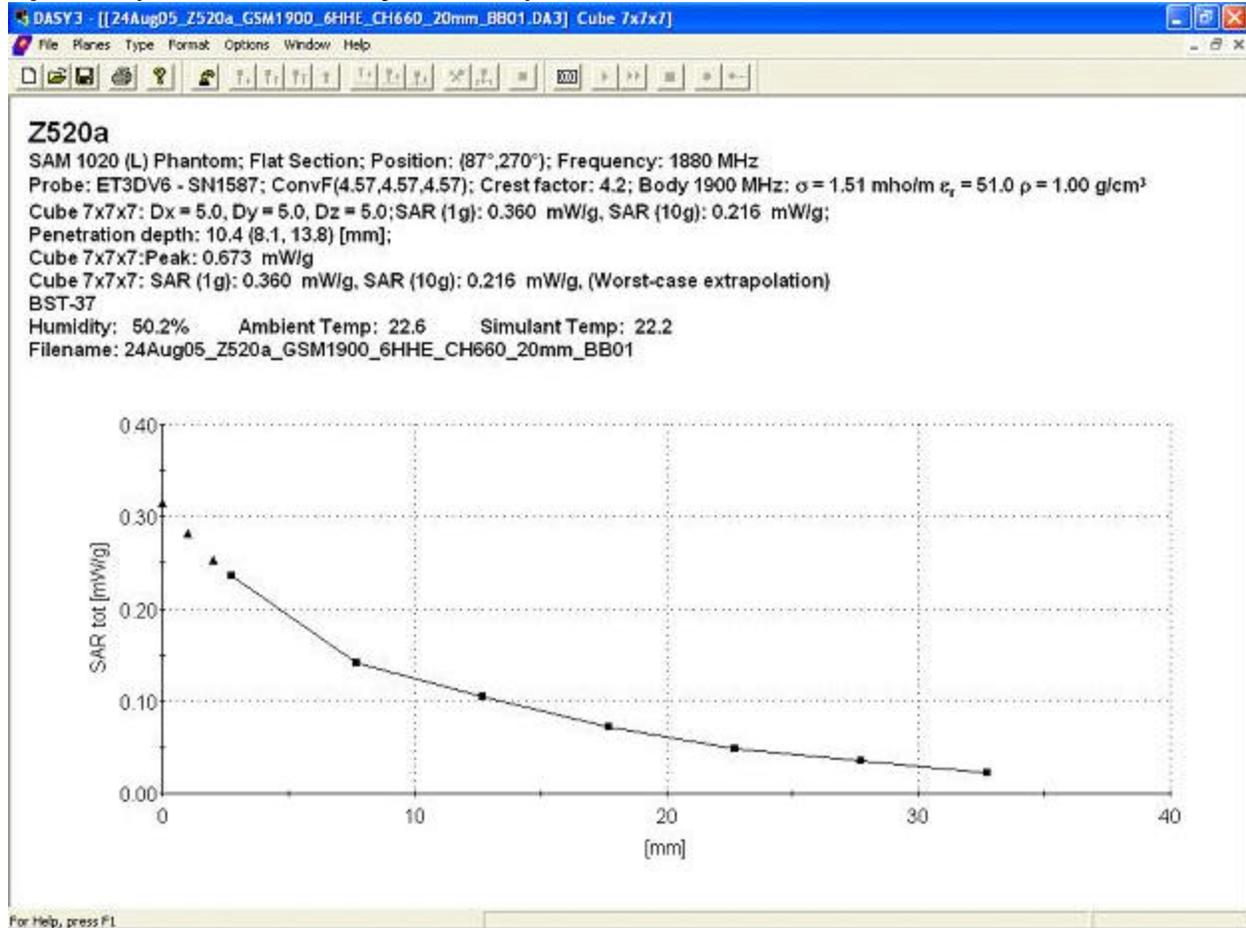
Distribution of maximum SAR in 1900 GSM band. Measured with back of device facing the body using a 20MM spacer. (Standard Battery, BST-37)





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SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while back of the phone is against the body using a 20MM Spacer. (Standard Battery, BST-37)

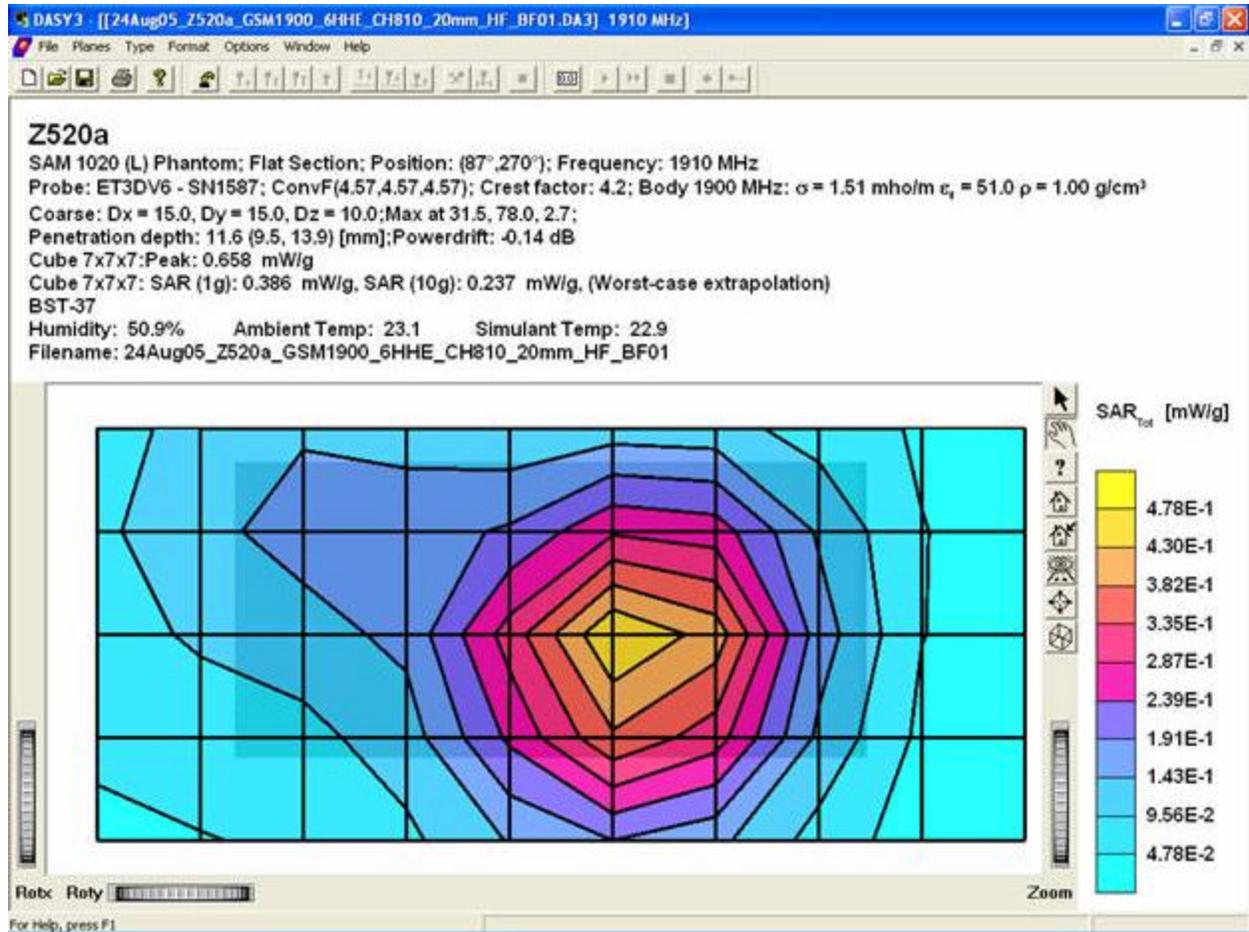




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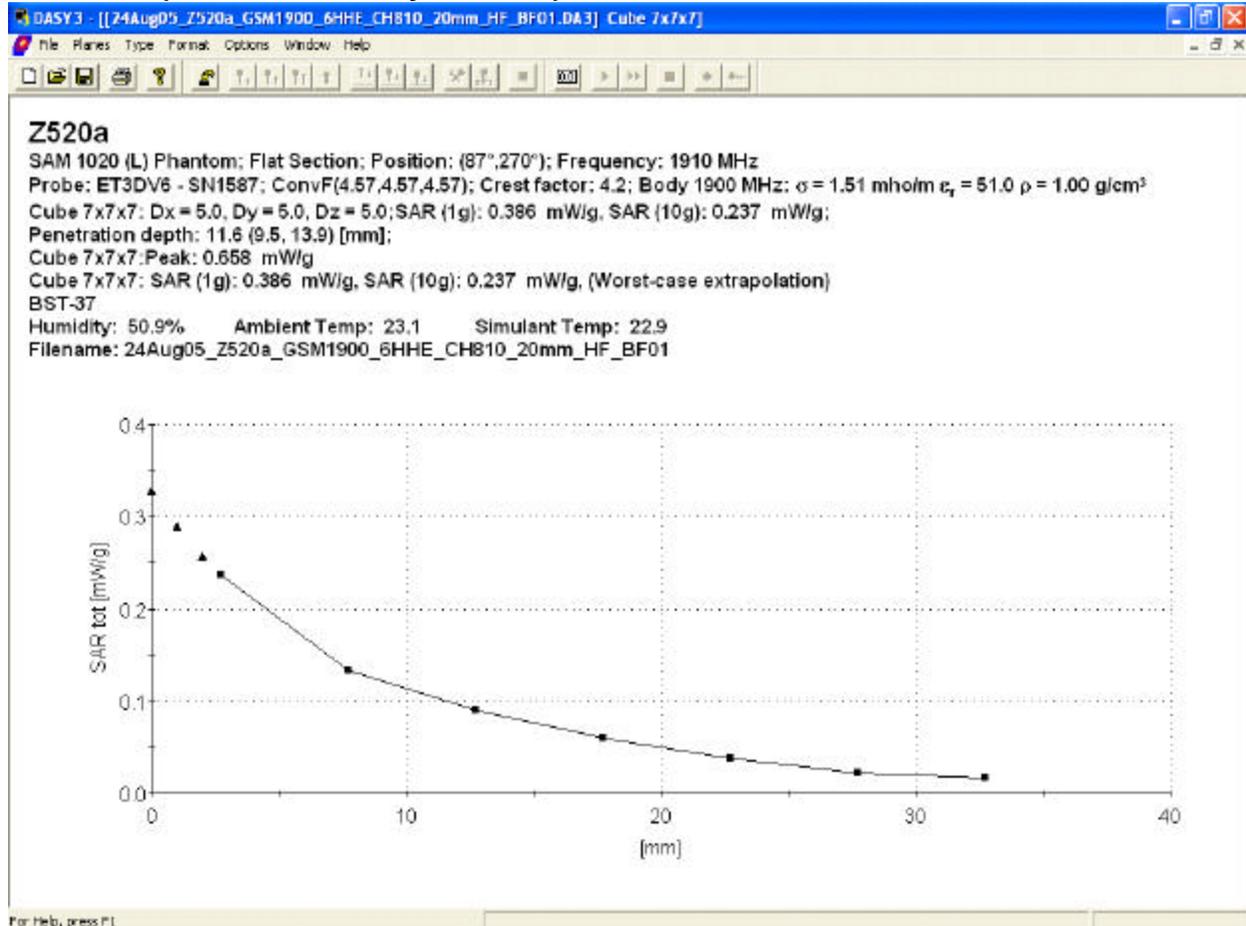
Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 20MM spacer. (Standard Battery, BST-37)





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SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using a 20MM SPACER. (Standard Battery, BST-37)

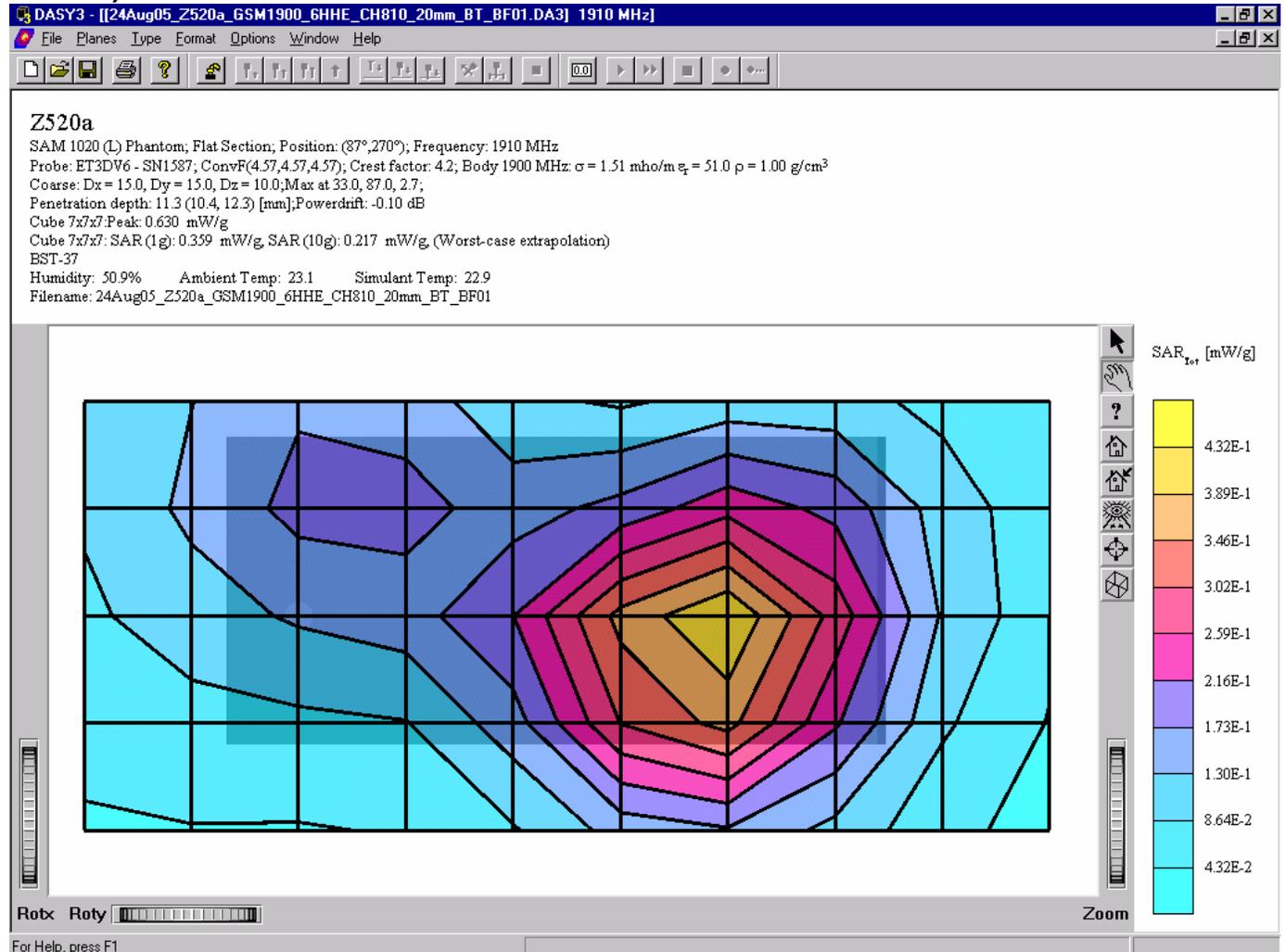




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Distribution of maximum SAR in 1900 GSM band. Measured with front of device facing the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)





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Approved SEM/CV/PF/P Gerard Hayes	Checked	A	X:\SAR Chamber\FCC reports\Z525A\Final

SAR Extrapolation to the phantom inner surface. Measured for maximum SAR in 1900 GSM band, while front of the phone is against the body using a 20MM SPACER with Blue Tooth. (Standard Battery BST-37)

