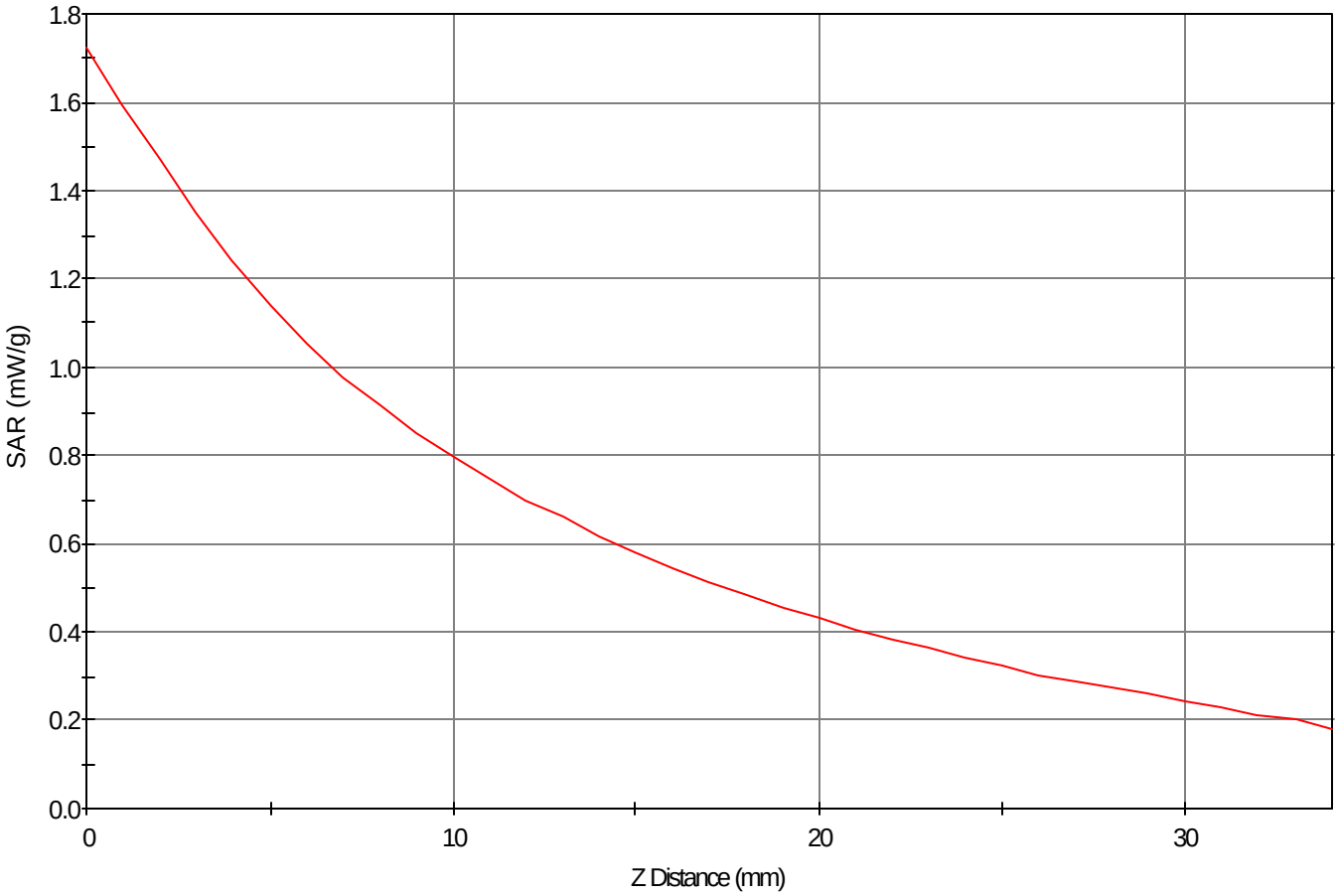
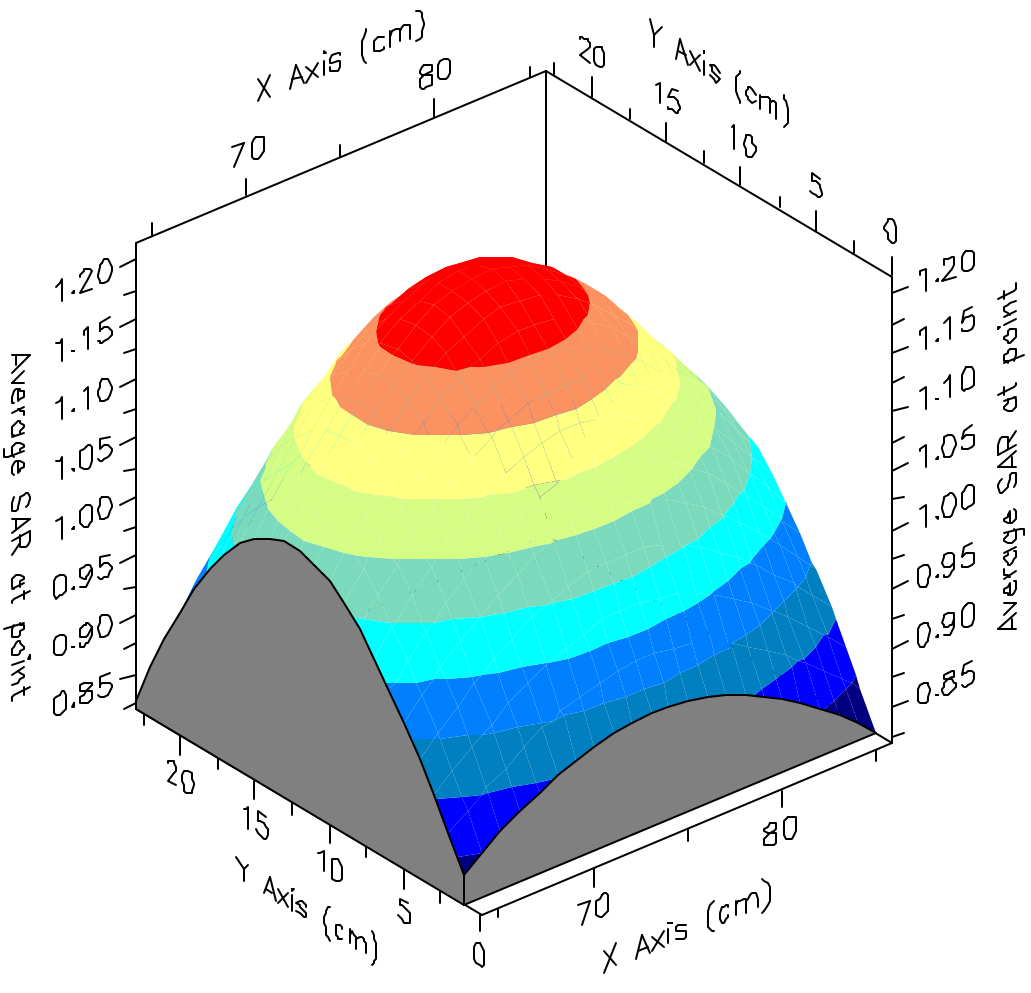
SAR Data Report 02071506

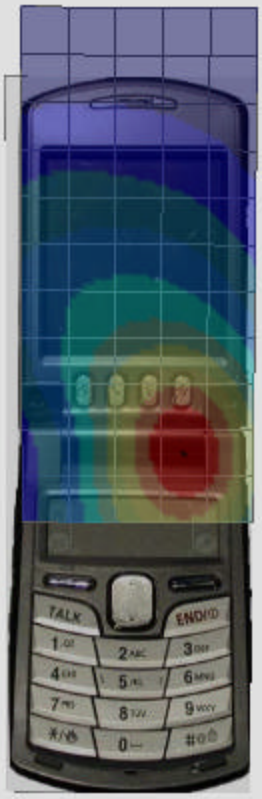
```
  Start        : 15-Jul-02 10:53:37 am
  End          : 15-Jul-02 11:00:03 am
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.97 MHz
  Transmit Pwr     : 0.450 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  AMPS Mode CH-799
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=75.0 y=12.0 = 1.16 W/kg

Zoom Scan - Max Peak SAR Value at x=74.0 y=13.0 z=0.0 = 1.72 W/kg

Max 1g SAR at x=75.0 y=13.0 z=0.0 = 1.19 W/kg

Max 10g SAR at x=75.0 y=12.0 z=0.0 = 0.78 W/kg
```

SAR - Z Axis
at Hotspot x:74.0 y:13.0



1g SAR Values

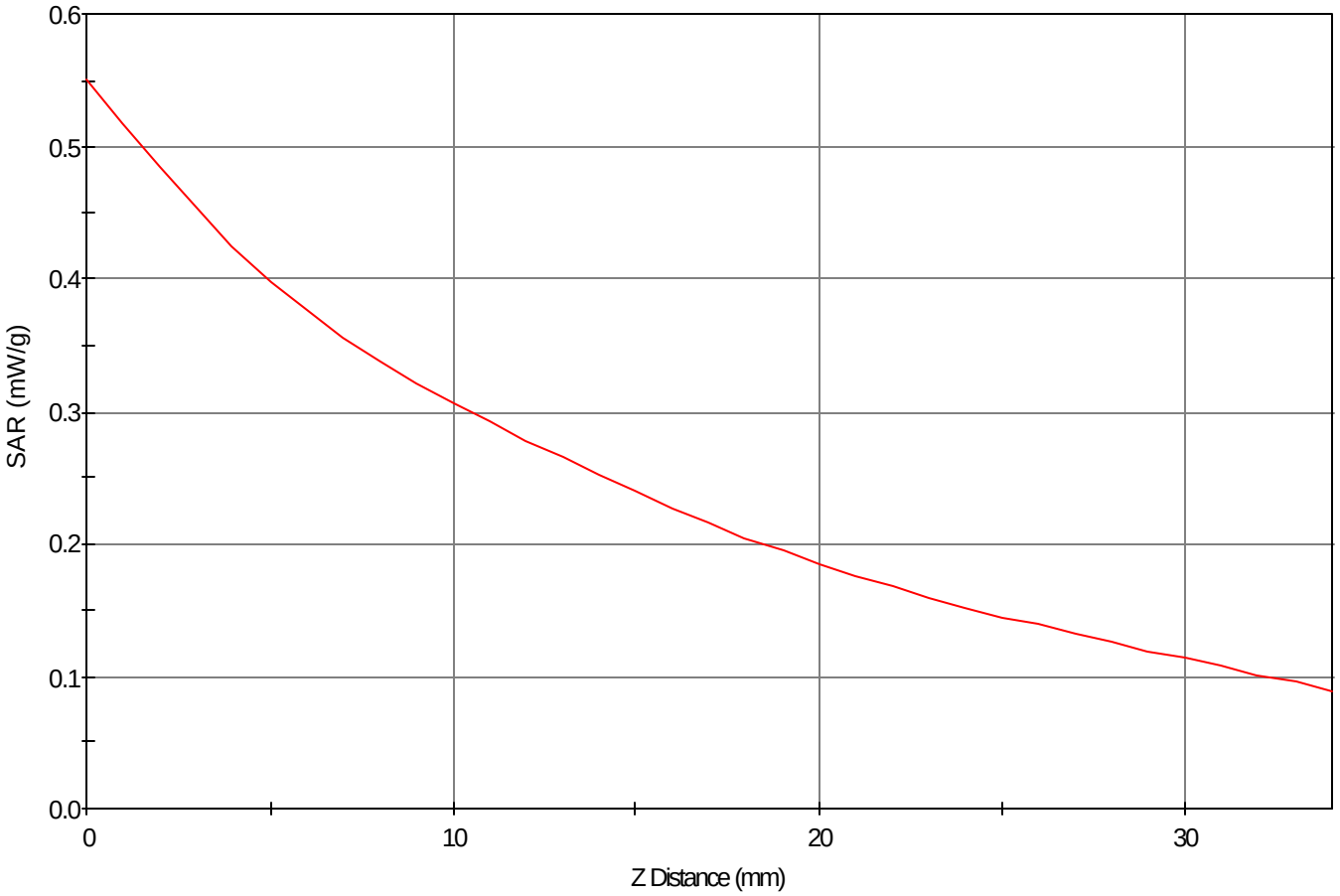



TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

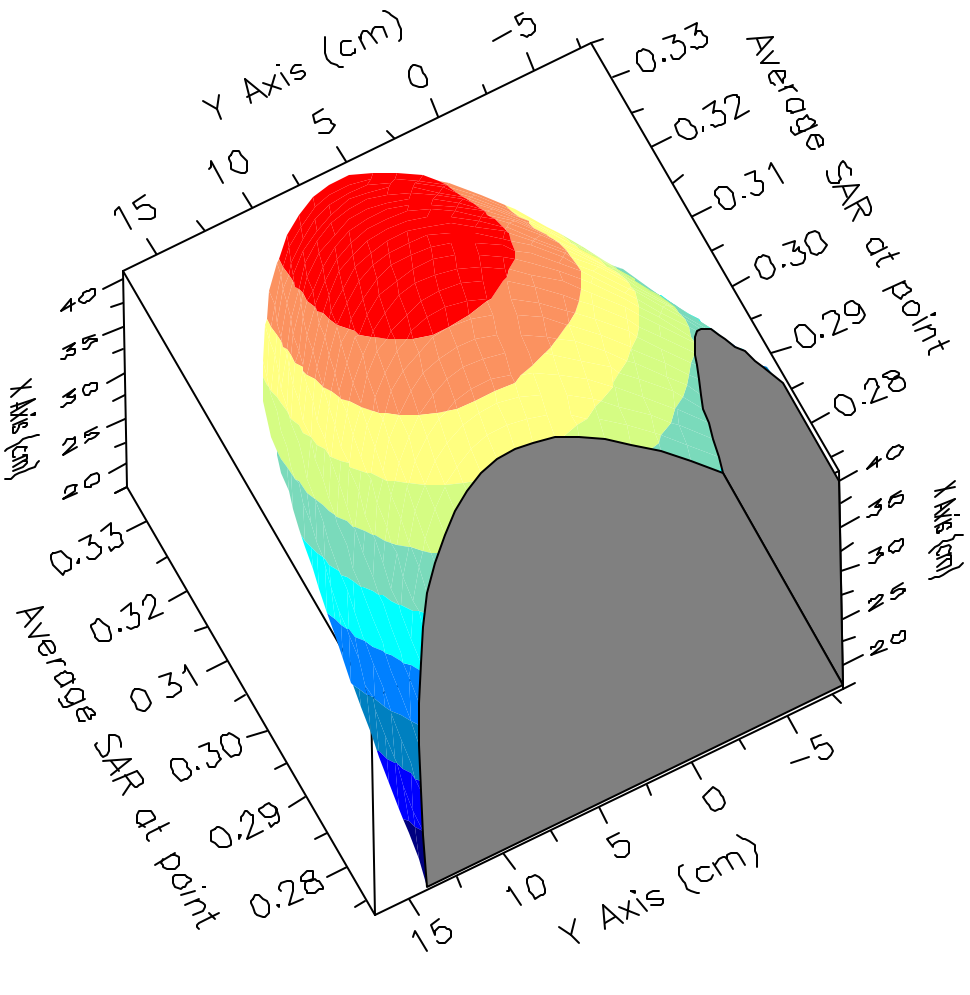
SAR Data Report 02071609

```
  Start        : 16-Jul-02 12:53:09 pm
  End          : 16-Jul-02 12:59:42 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.97 MHz
  Transmit Pwr     : 0.450 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  AMPS Mode CH-799
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=29.0 y=3.0 = 0.42 W/kg

Zoom Scan - Max Peak SAR Value at x=42.0 y=4.0 z=0.0 = 0.55 W/kg

Max 1g SAR at x=40.0 y=5.0 z=0.0 = 0.42 W/kg

Max 10g SAR at x=34.0 y=4.0 z=0.0 = 0.30 W/kg
```

SAR - Z Axis
at Hotspot x:42.0 y:4.0



1g SAR Values

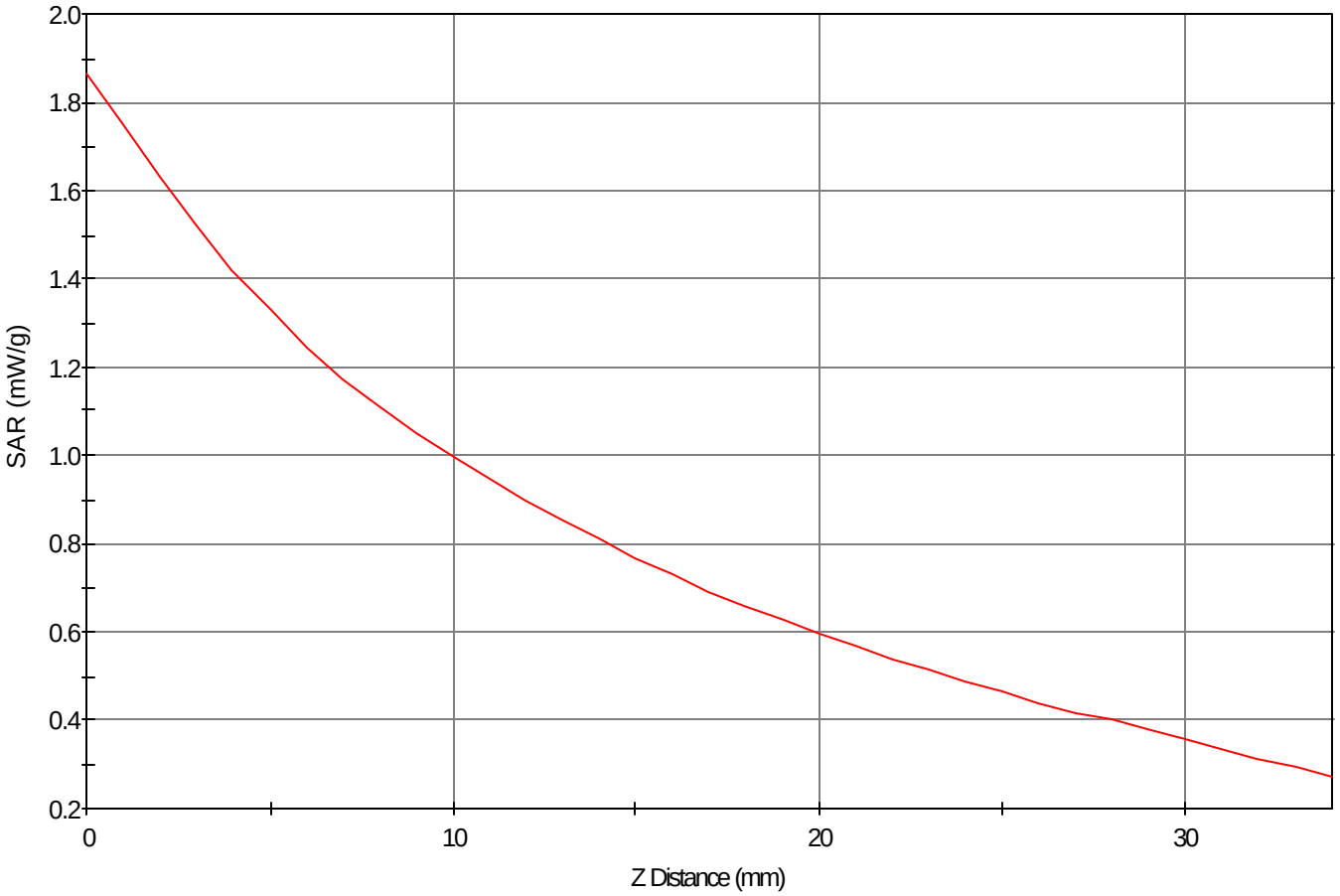



TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

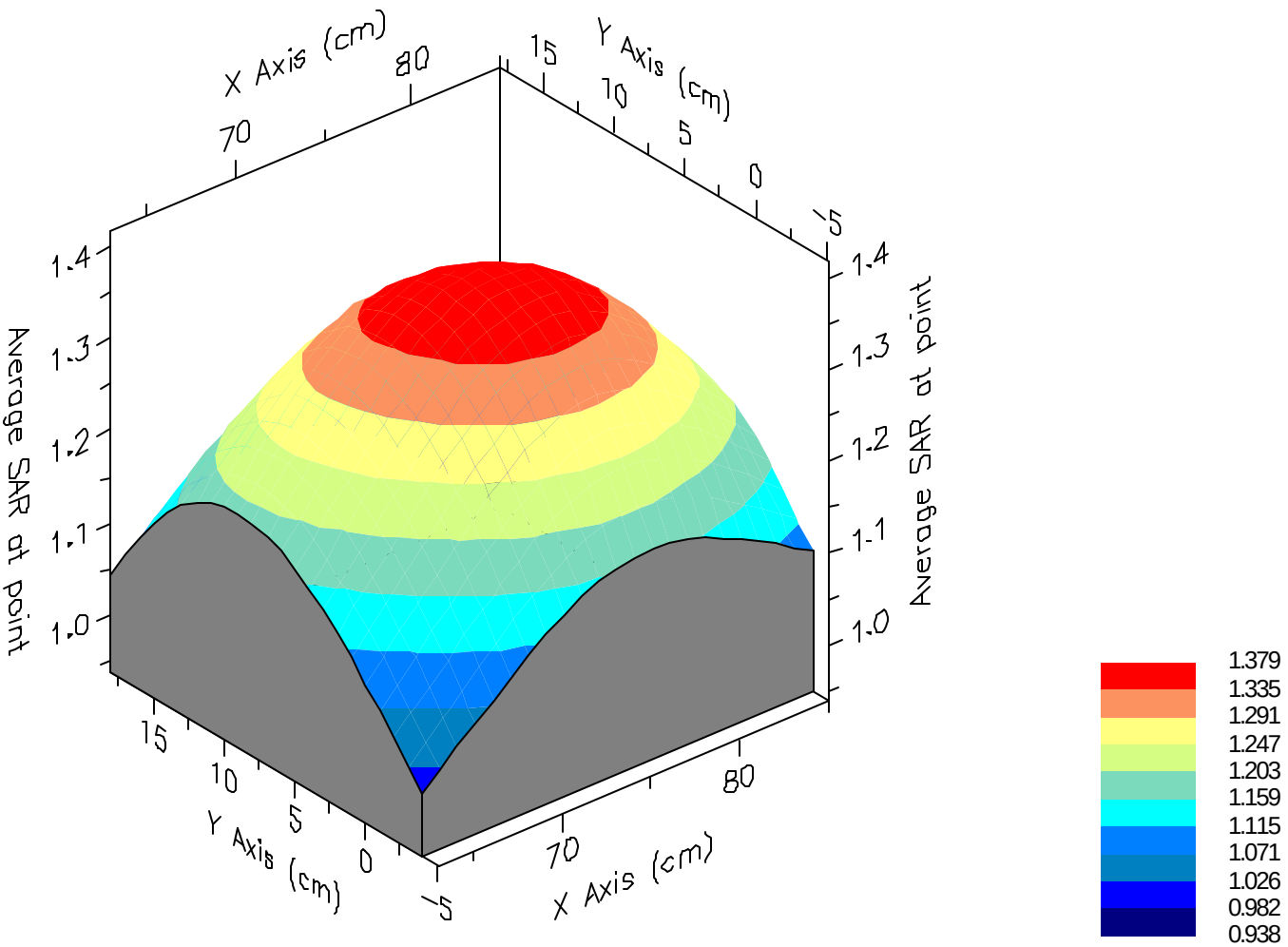
SAR Data Report 02071611

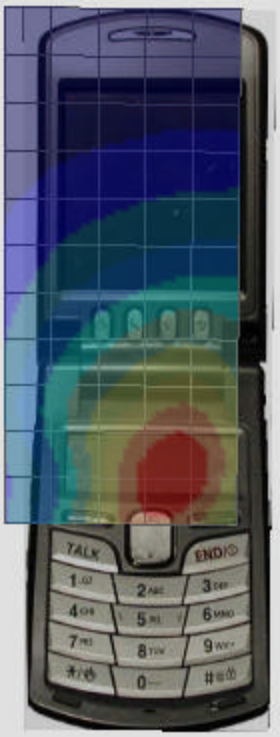
```
  Start        : 16-Jul-02 01:28:08 pm
  End          : 16-Jul-02 01:39:33 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.97 MHz
  Transmit Pwr     : 0.450 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  AMPS Mode CH-799
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=74.0 y=7.0 = 1.36 W/kg

Zoom Scan - Max Peak SAR Value at x=74.0 y=5.0 z=0.0 = 1.87 W/kg

Max 1g SAR at x=75.0 y=6.0 z=0.0 = 1.38 W/kg

Max 10g SAR at x=74.0 y=5.0 z=0.0 = 0.95 W/kg
```

SAR - Z Axis
at Hotspot x:74.0 y:5.0



1g SAR Values

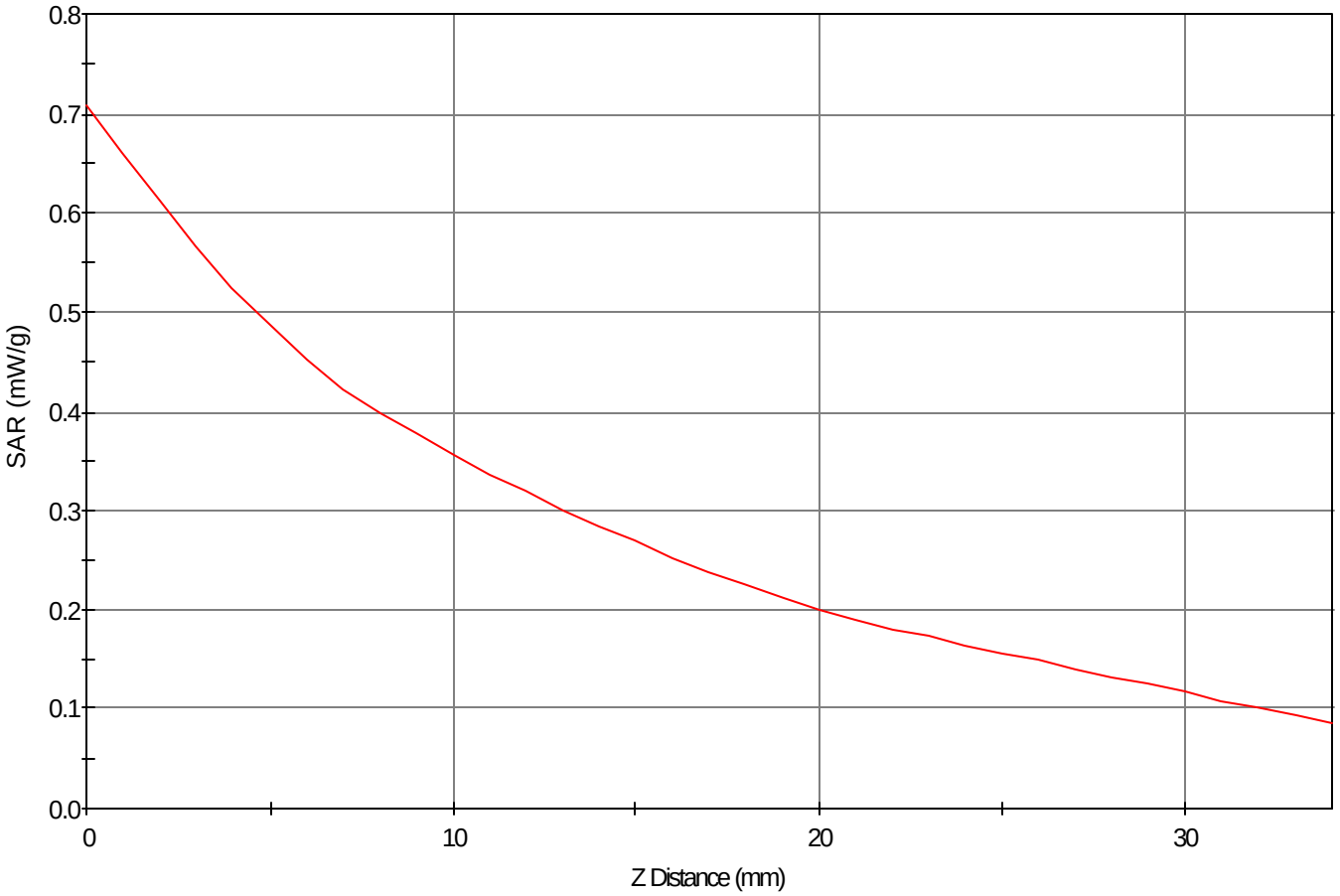



TALK
END

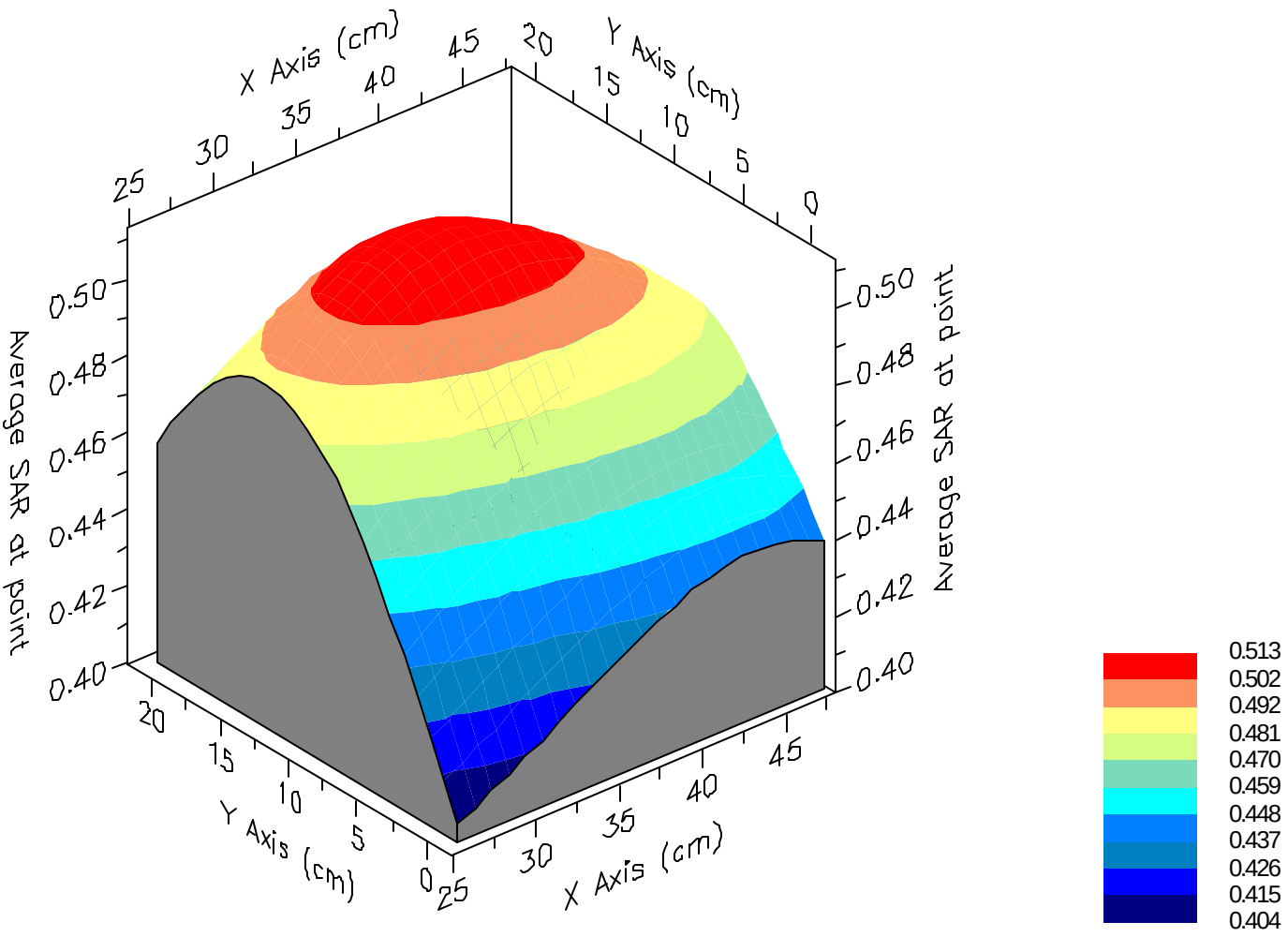
SAR Data Report 02071614

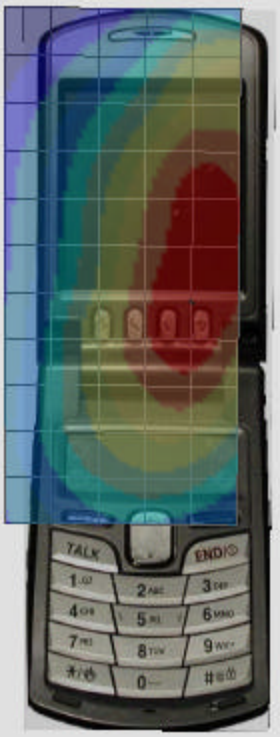
```
  Start        : 16-Jul-02 02:39:58 pm
  End          : 16-Jul-02 02:46:42 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.97 MHz
  Transmit Pwr     : 0.450 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  AMPS Mode CH-799
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=37.0 y=10.0 = 0.50 W/kg

Zoom Scan - Max Peak SAR Value at x=36.0 y=13.0 z=0.0 = 0.71 W/kg

Max 1g SAR at x=36.0 y=12.0 z=0.0 = 0.51 W/kg

Max 10g SAR at x=33.0 y=11.0 z=0.0 = 0.36 W/kg
```

SAR - Z Axis
at Hotspot x:36.0 y:13.0



1g SAR Values

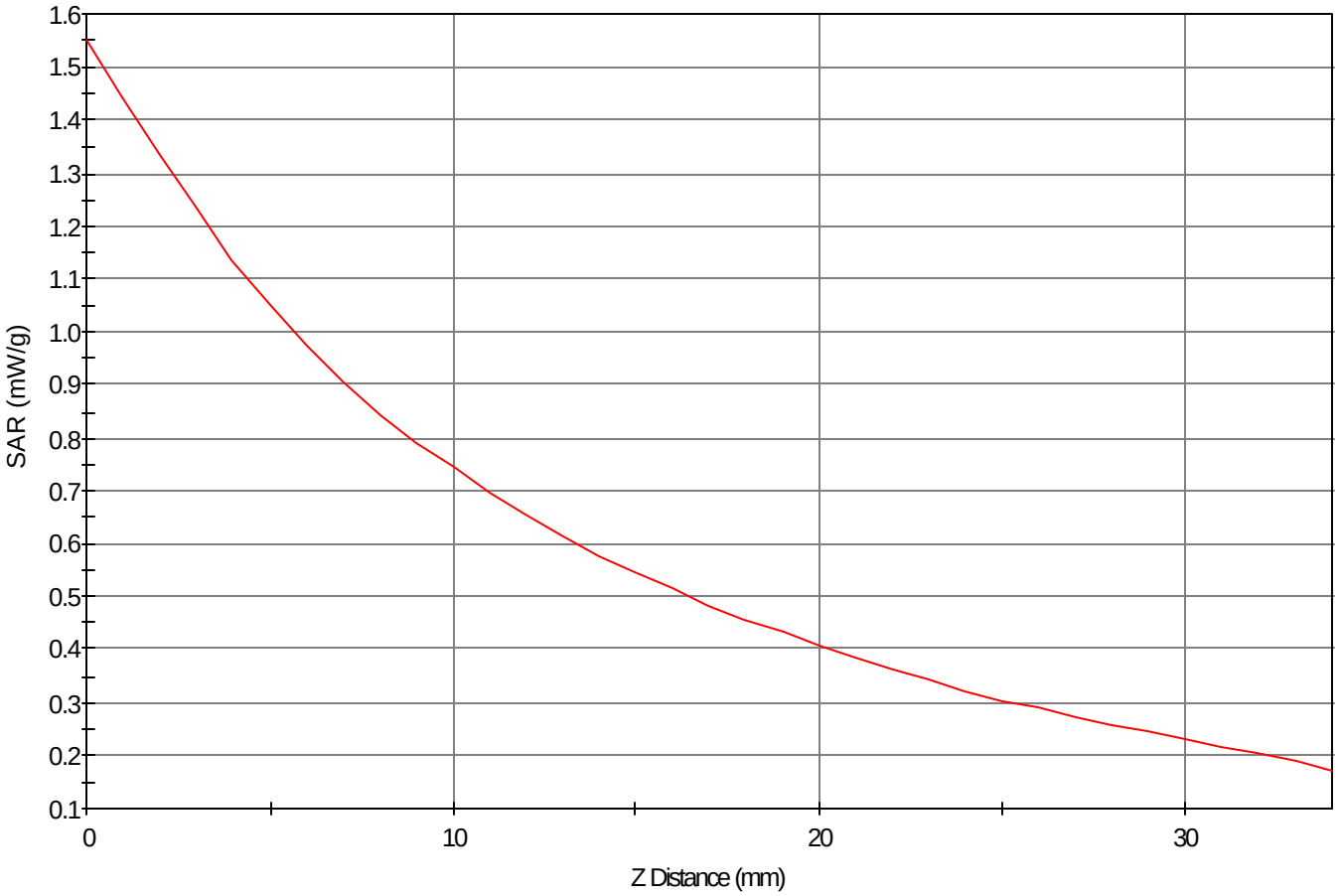


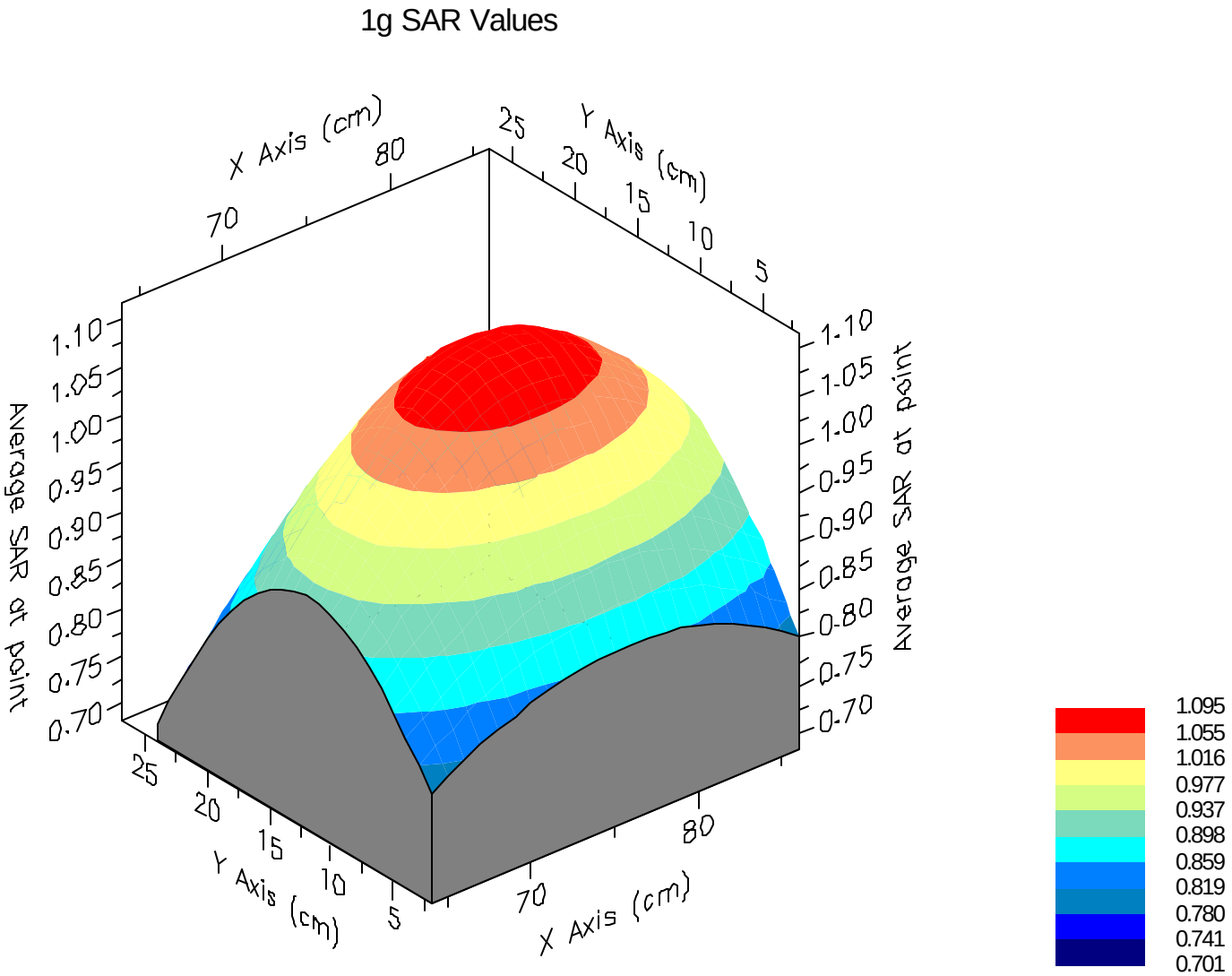

TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

SAR Data Report 02071622

```
  Start        : 16-Jul-02 04:51:52 pm
  End          : 16-Jul-02 04:58:13 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.31 MHz
  Transmit Pwr     : 0.400 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  CDMA Mode CH-777
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=75.0 y=13.0 = 1.08 W/kg

Zoom Scan - Max Peak SAR Value at x=76.0 y=13.0 z=0.0 = 1.55 W/kg

Max 1g SAR at x=76.0 y=13.0 z=0.0 = 1.09 W/kg

Max 10g SAR at x=76.0 y=12.0 z=0.0 = 0.72 W/kg
```

SAR - Z Axis
at Hotspot x:76.0 y:13.0



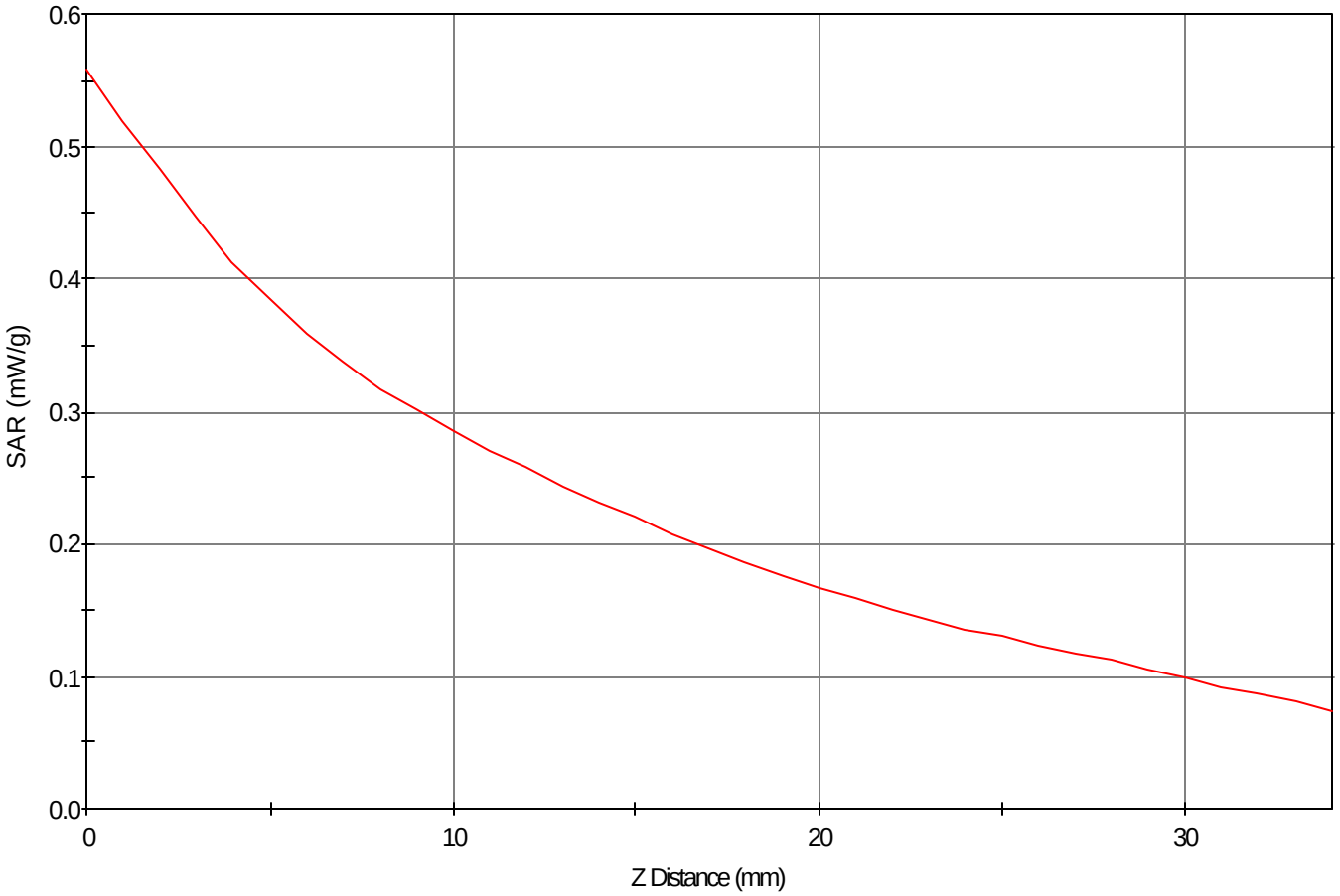

1g SAR Values
X Axis (cm)
70
80
Y Axis (cm)
25
20
15
10
5
Average SAR at point
1.10
1.05
1.00
0.95
0.90
0.85
0.80
0.75
0.70
1.095
1.055
1.016
0.977
0.937
0.898
0.859
0.819
0.780
0.741
0.701


TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

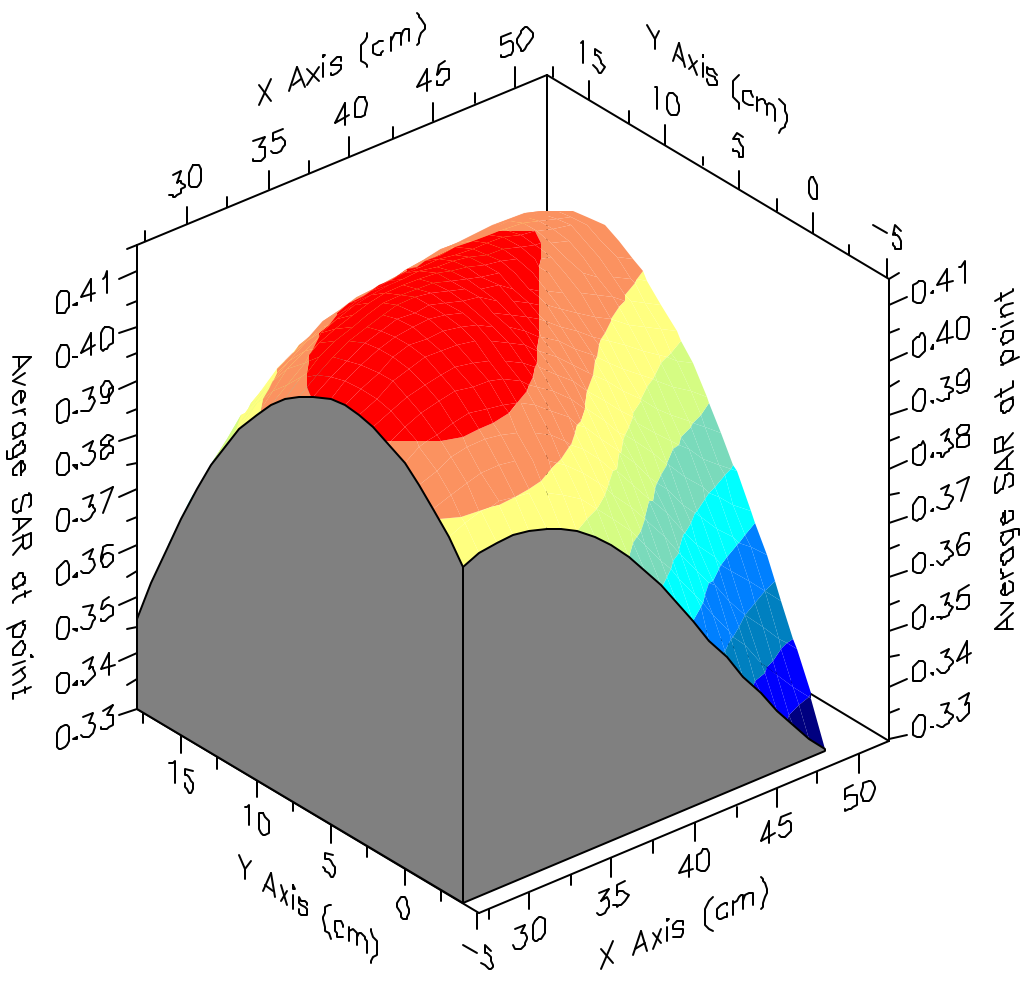
SAR Data Report 02071625

```
  Start        : 16-Jul-02 05:24:33 pm
  End          : 16-Jul-02 05:30:52 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.31 MHz
  Transmit Pwr     : 0.400 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  CDMA Mode CH-777
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=38.0 y=7.0 = 0.40 W/kg

Zoom Scan - Max Peak SAR Value at x=30.0 y=9.0 z=0.0 = 0.56 W/kg

Max 1g SAR at x=33.0 y=5.0 z=0.0 = 0.41 W/kg

Max 10g SAR at x=37.0 y=6.0 z=0.0 = 0.30 W/kg
```

SAR - Z Axis
at Hotspot x:30.0 y:9.0



1g SAR Values

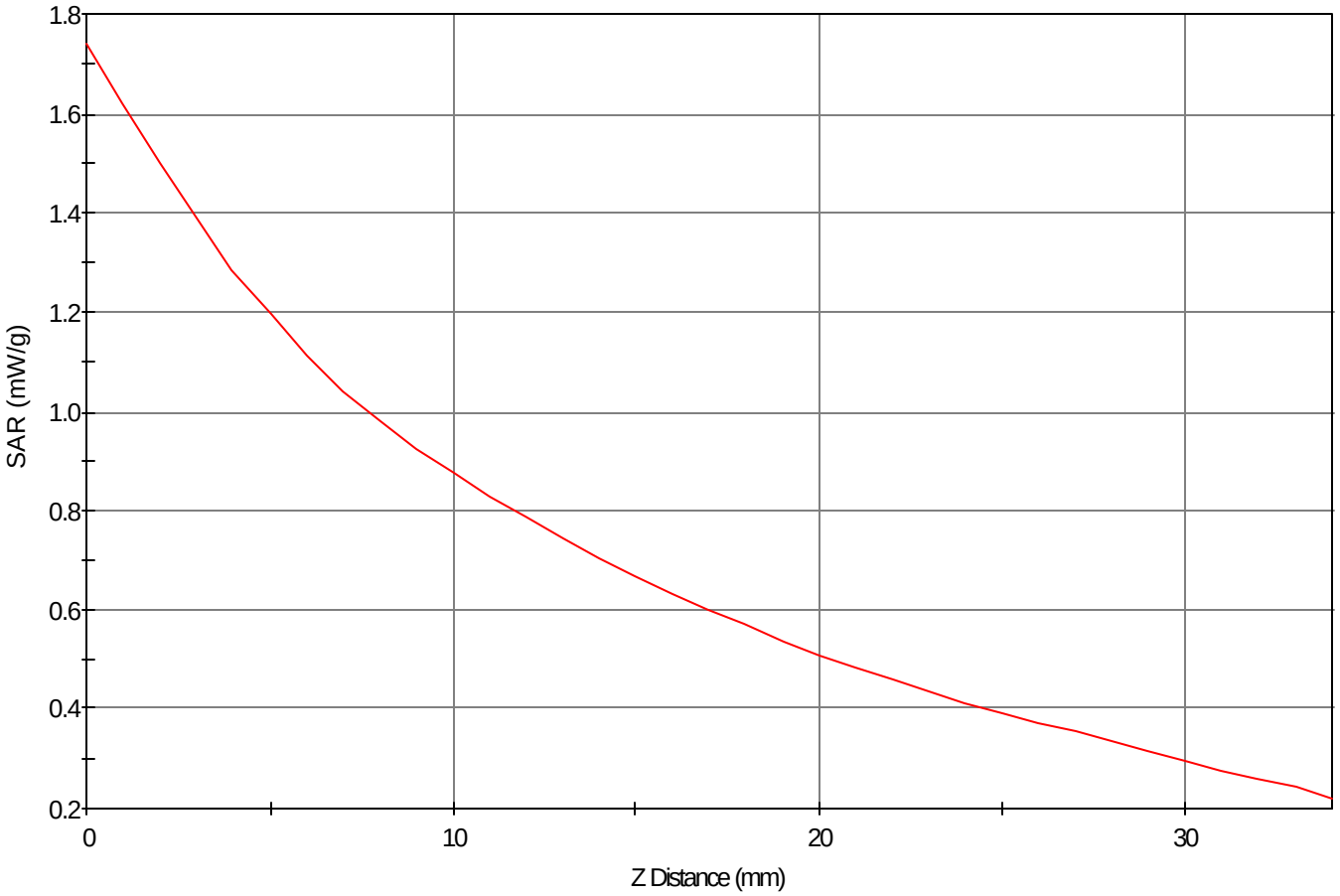



TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

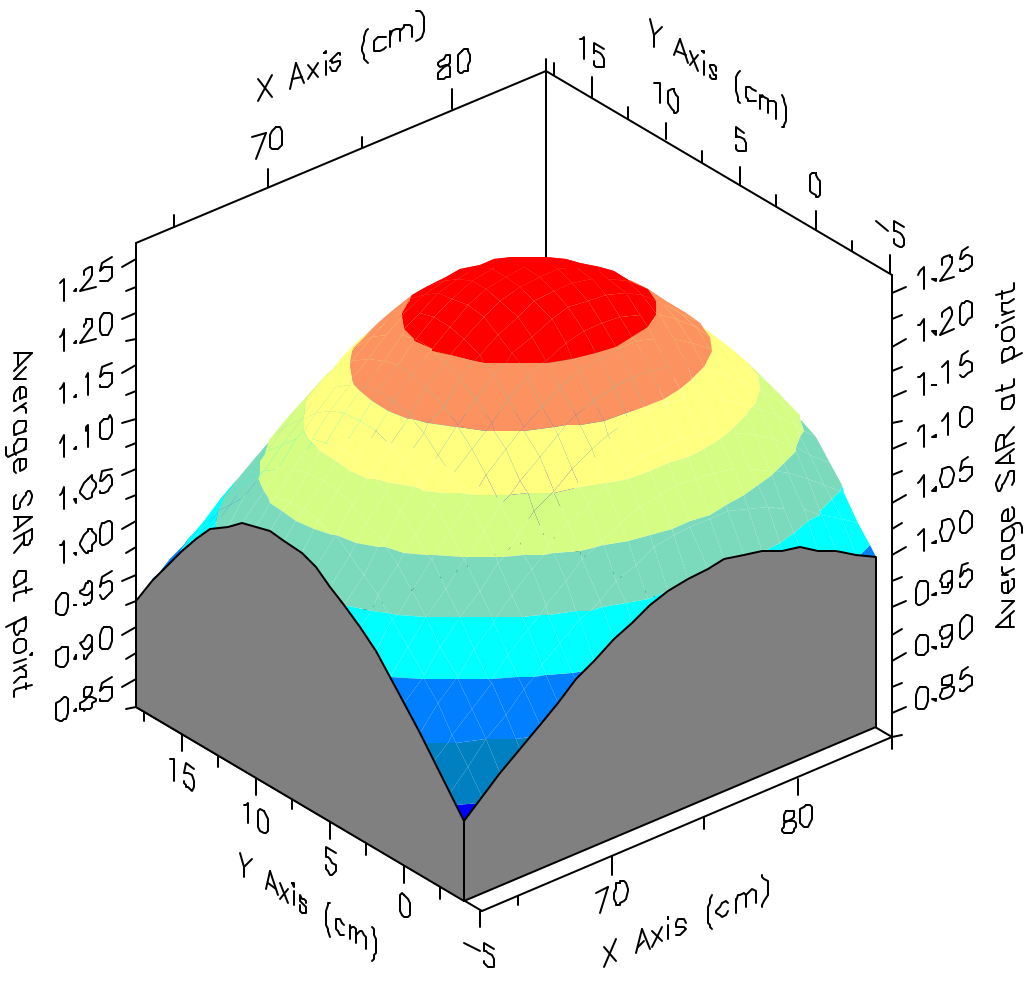
SAR Data Report 02071618

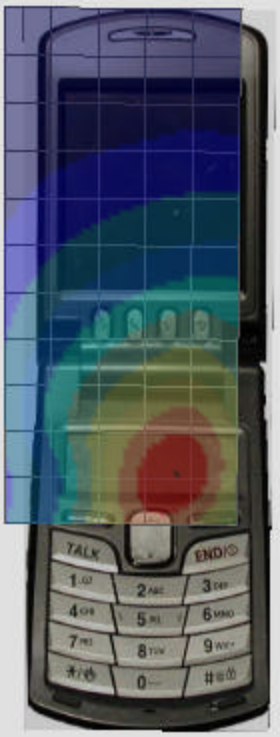
```
  Start        : 16-Jul-02 03:46:01 pm
  End          : 16-Jul-02 03:57:29 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.31 MHz
  Transmit Pwr     : 0.450 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  CDMA Mode CH-777
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=74.0 y=7.0 = 1.23 W/kg

Zoom Scan - Max Peak SAR Value at x=74.0 y=8.0 z=0.0 = 1.74 W/kg

Max 1g SAR at x=75.0 y=7.0 z=0.0 = 1.25 W/kg

Max 10g SAR at x=74.0 y=5.0 z=0.0 = 0.85 W/kg
```

SAR - Z Axis
at Hotspot x:74.0 y:8.0



1g SAR Values

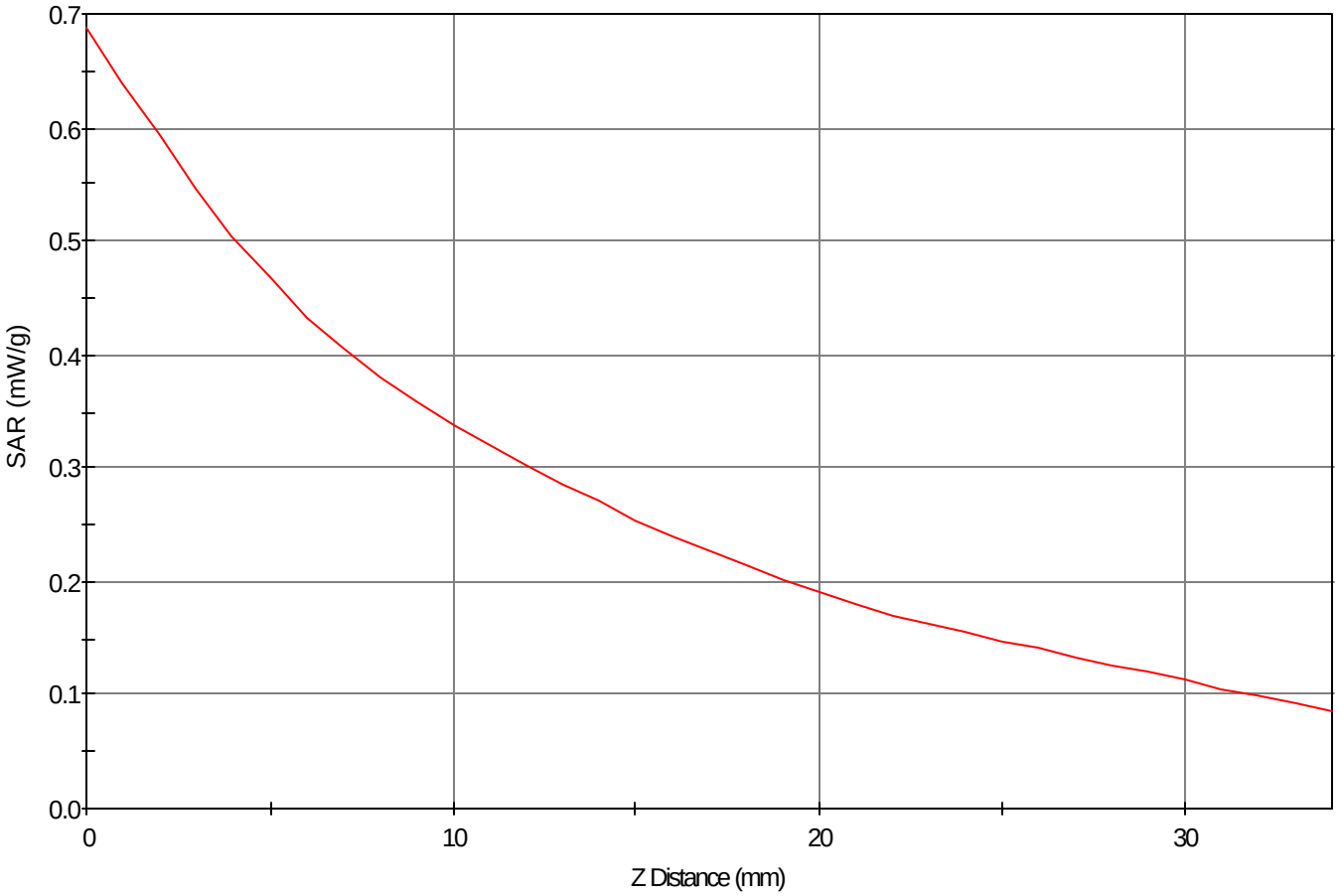


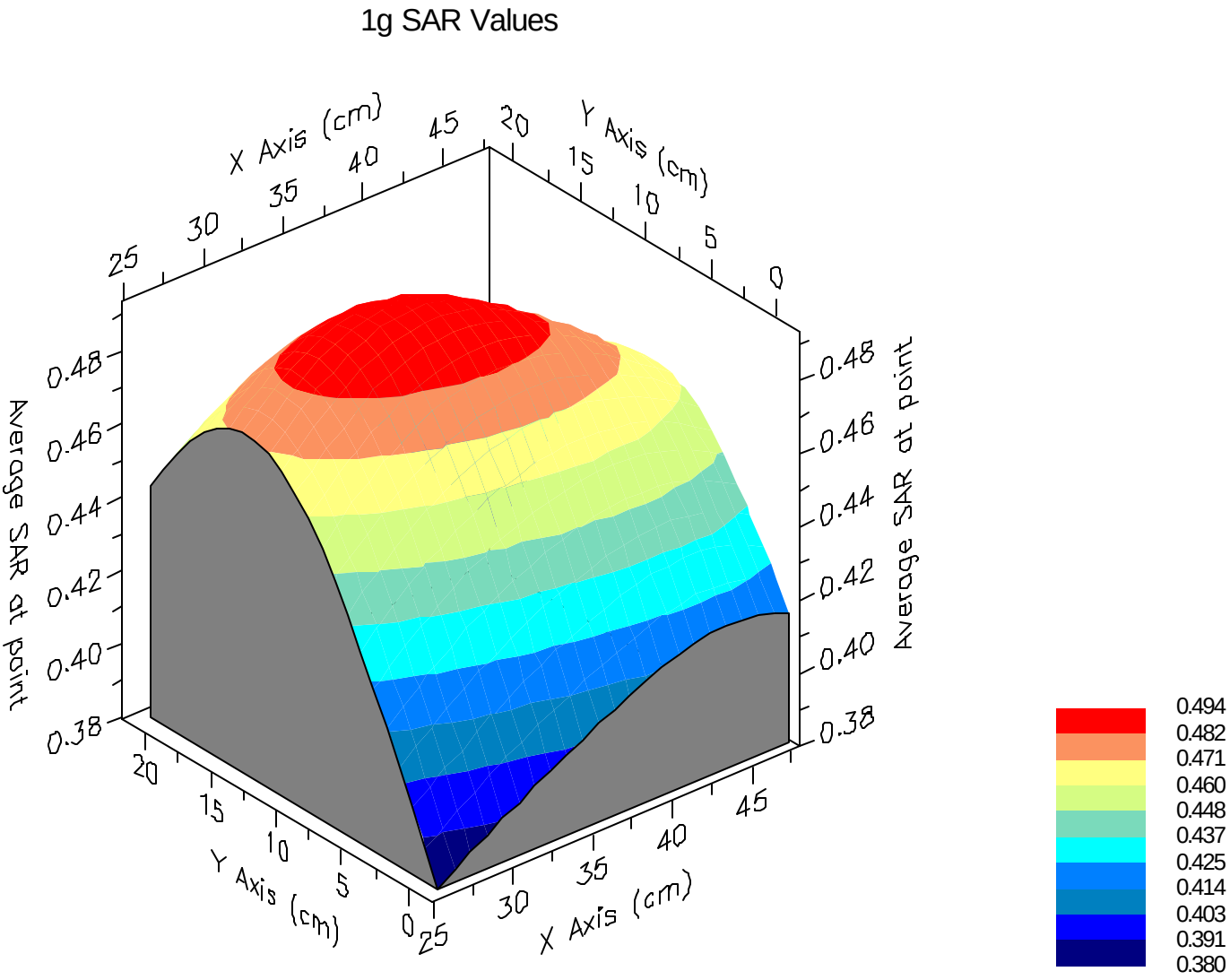

TALK
END

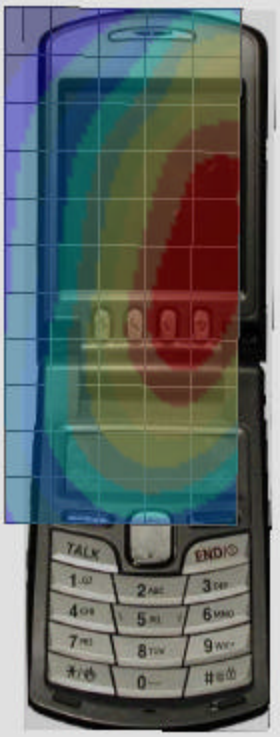
SAR Data Report 02071621

```
  Start        : 16-Jul-02 04:36:06 pm
  End          : 16-Jul-02 04:42:41 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.31 MHz
  Transmit Pwr     : 0.400 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 40.560
  Tissue Conductivity : 0.880
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.700
  Calibrated Conductivity :  0.890
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  5.800
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  CDMA Mode CH-777
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=37.0 y=10.0 = 0.48 W/kg

Zoom Scan - Max Peak SAR Value at x=35.0 y=13.0 z=0.0 = 0.69 W/kg

Max 1g SAR at x=35.0 y=12.0 z=0.0 = 0.49 W/kg

Max 10g SAR at x=33.0 y=12.0 z=0.0 = 0.34 W/kg
```

SAR - Z Axis
at Hotspot x:35.0 y:13.0



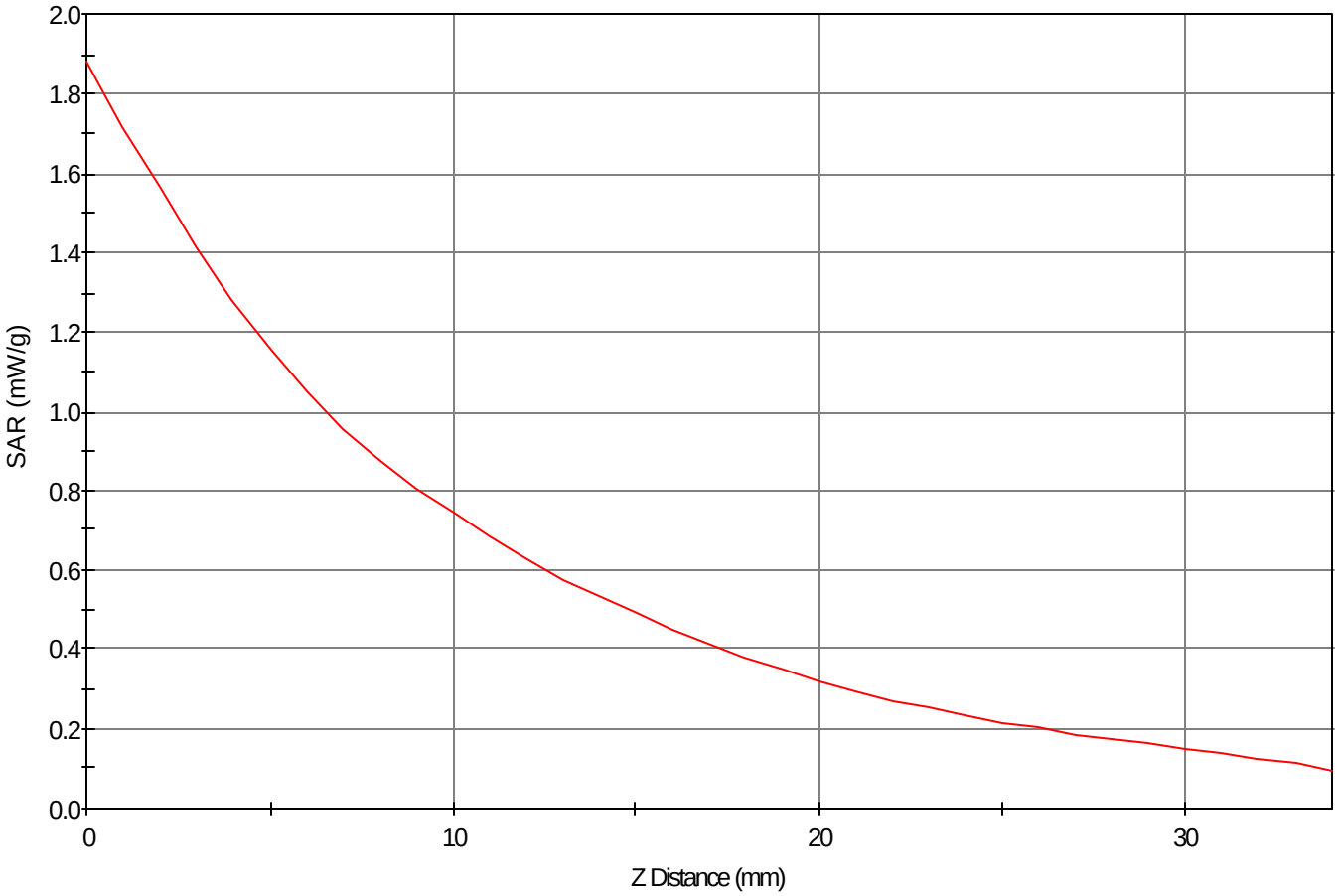

1g SAR Values
X Axis (cm)
25
30
35
40
45
Y Axis (cm)
20
15
10
5
0
Average SAR at point
0.38
0.40
0.42
0.44
0.46
0.48
0.494
0.482
0.471
0.460
0.448
0.437
0.425
0.414
0.403
0.391
0.380


TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

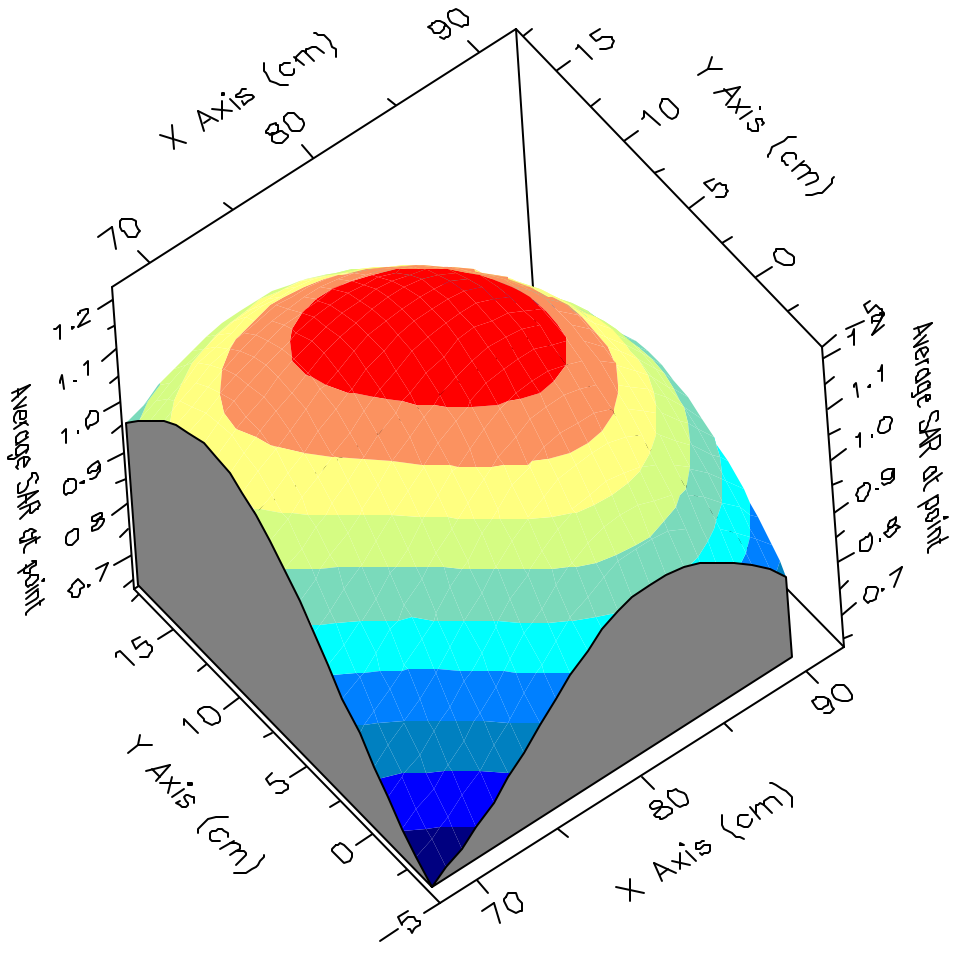
SAR Data Report 02071510

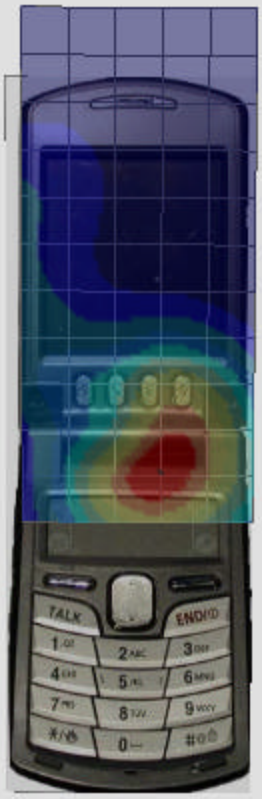
```
  Start        : 15-Jul-02 12:07:57 pm
  End          : 15-Jul-02 12:14:20 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 1908.75 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 41.110
  Tissue Conductivity : 1.420
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 1900 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.200
  Calibrated Conductivity :  1.410
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.700
  Probe Sensitivity :  3.000   2.995   2.653   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  PCS Mode CH-1175
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=79.0 y=7.0 = 1.20 W/kg

Zoom Scan - Max Peak SAR Value at x=80.0 y=6.0 z=0.0 = 1.88 W/kg

Max 1g SAR at x=79.0 y=8.0 z=0.0 = 1.22 W/kg

Max 10g SAR at x=78.0 y=8.0 z=0.0 = 0.72 W/kg
```

SAR - Z Axis
at Hotspot x:80.0 y:6.0



1g SAR Values

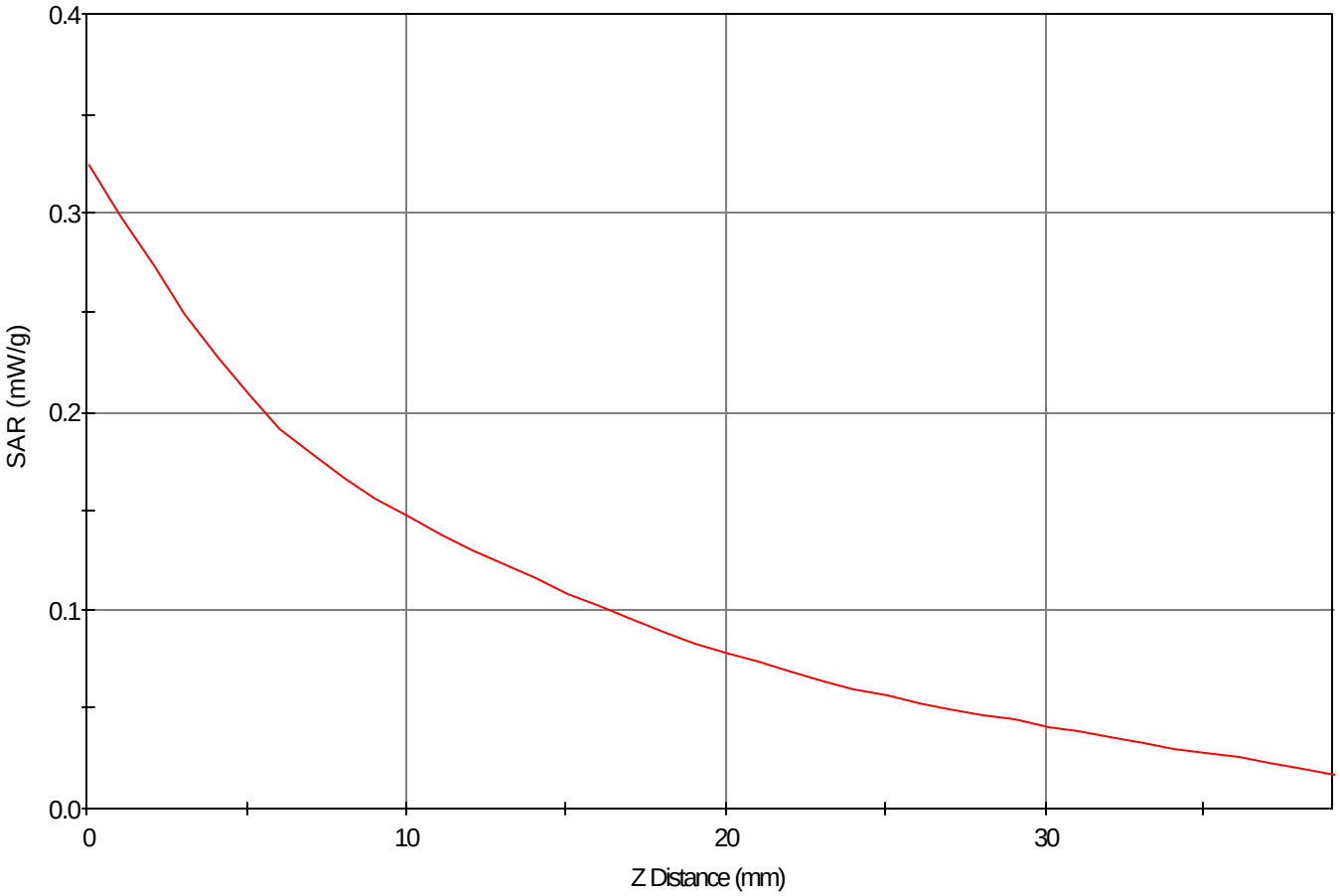



TALK
END/O
1
2ABC
3DEF
4GHI
5JKL
6MNO
7PRS
8TUV
9WXY
*/N
0+
#

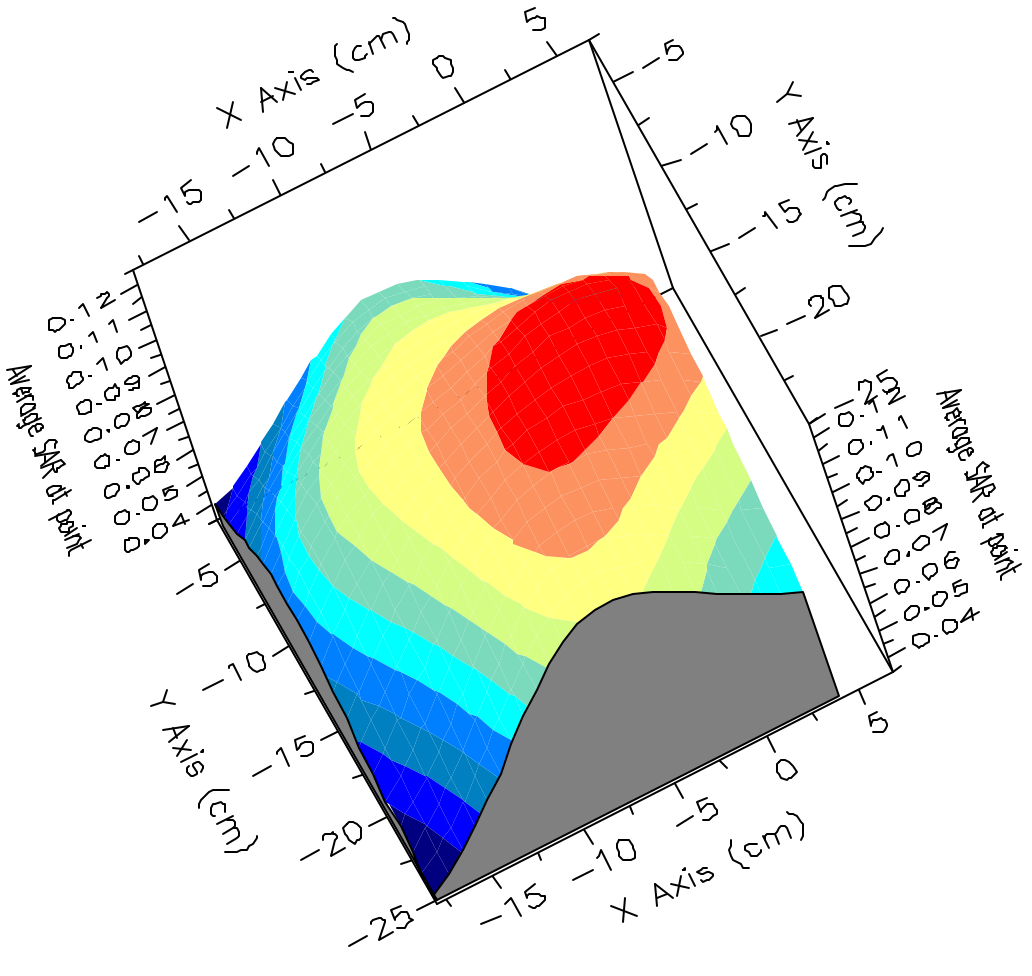
SAR Data Report 02071516

```
  Start        : 15-Jul-02 03:39:06 pm
  End          : 15-Jul-02 03:45:31 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 1908.75 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-R
  Phantom Type        : Right Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 41.110
  Tissue Conductivity : 1.420
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 1900 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.200
  Calibrated Conductivity :  1.410
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.700
  Probe Sensitivity :  3.000   2.995   2.653   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  PCS Mode CH-1175
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=-7.0 y=-14.0 = 0.11 W/kg

Zoom Scan - Max Peak SAR Value at x=1.0 y=-14.0 z=0.0 = 0.32 W/kg

Max 1g SAR at x=0.0 y=-15.0 z=0.0 = 0.12 W/kg

Max 10g SAR at x=-3.0 y=-16.0 z=0.0 = 0.06 W/kg
```

SAR - Z Axis
at Hotspot x:1.0 y:-14.0



1g SAR Values

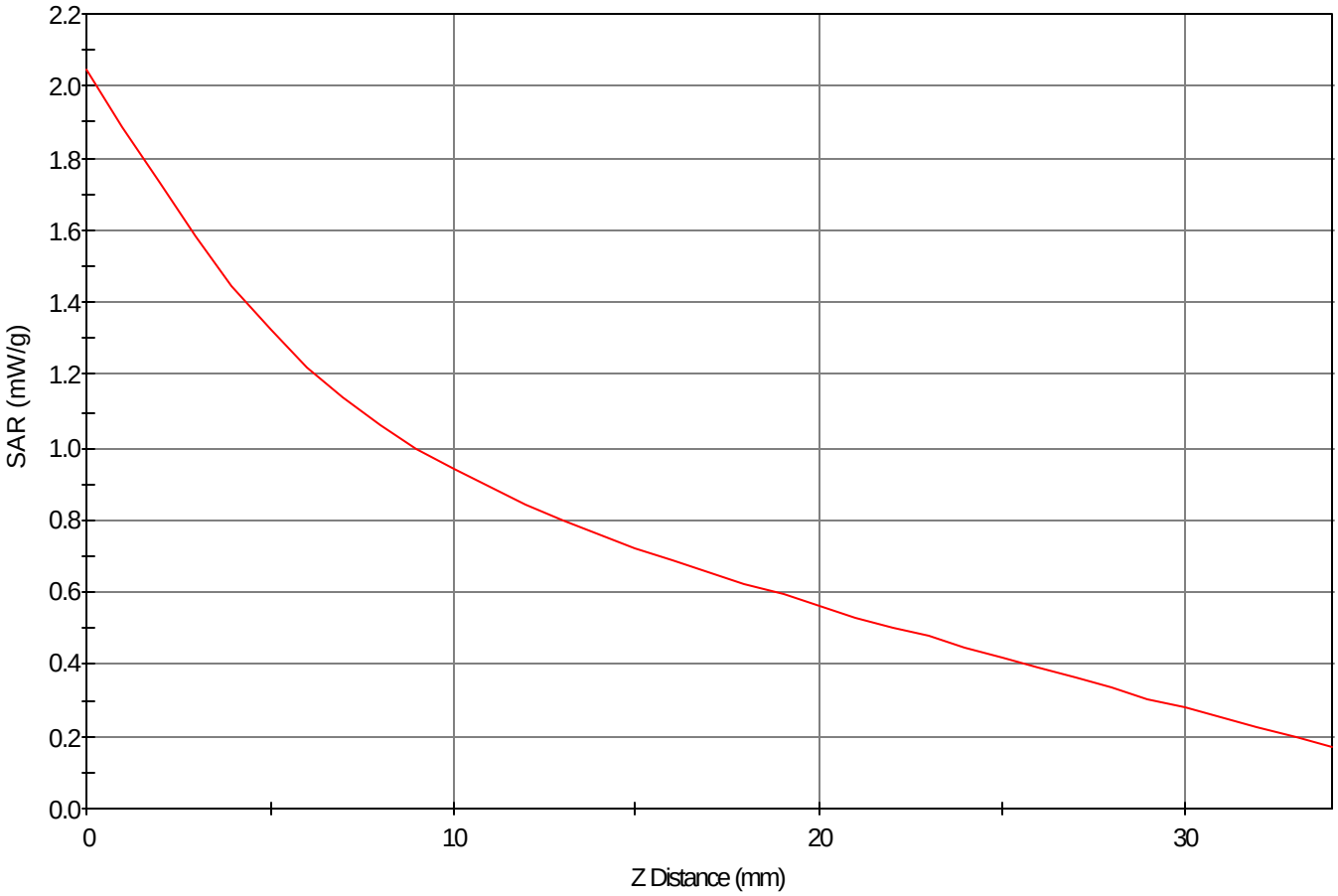



TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

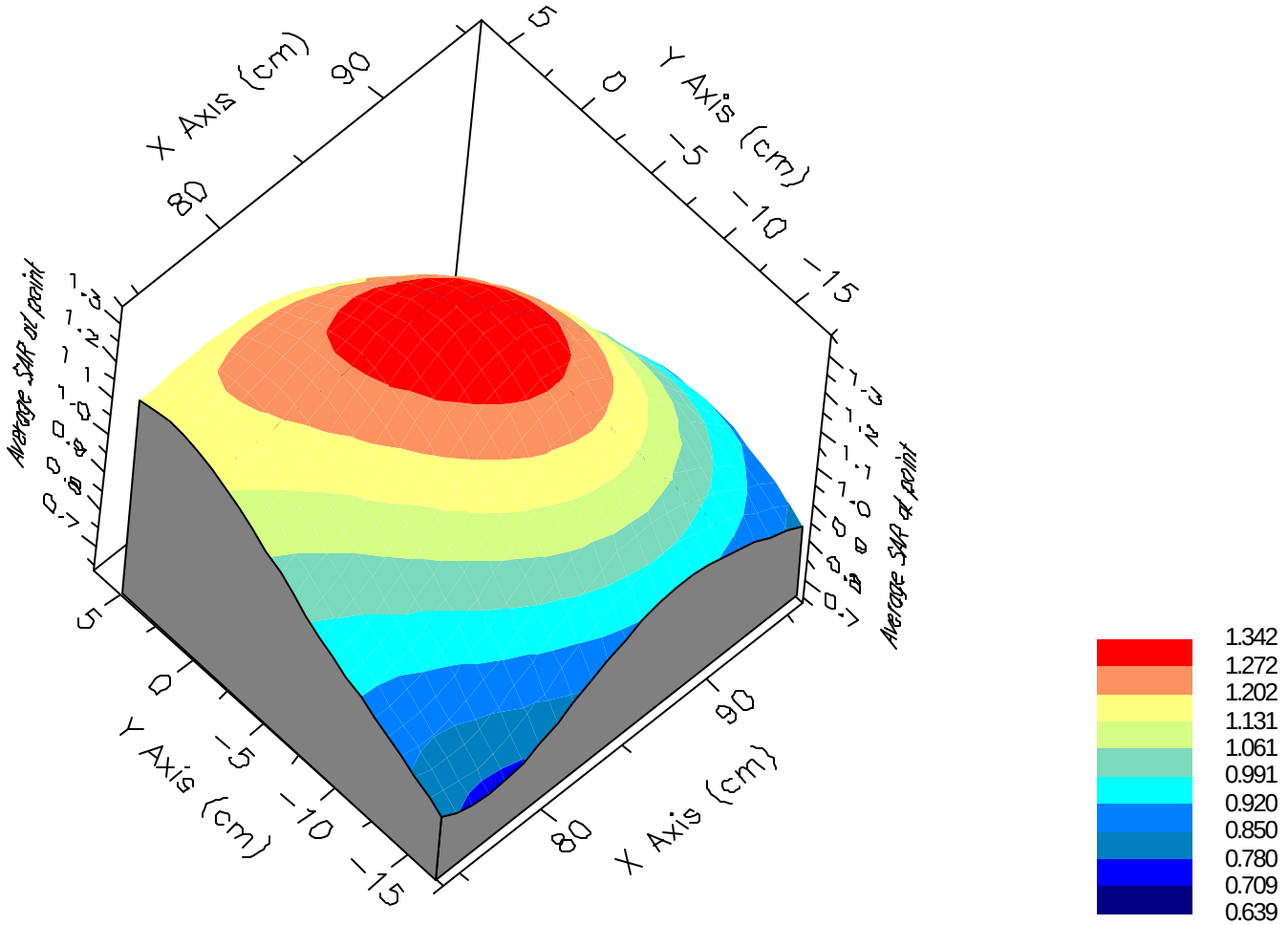
SAR Data Report 02071520

```
  Start        : 15-Jul-02 04:21:20 pm
  End          : 15-Jul-02 04:32:27 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 1880.00 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 41.110
  Tissue Conductivity : 1.420
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 1900 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.200
  Calibrated Conductivity :  1.410
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.700
  Probe Sensitivity :  3.000   2.995   2.653   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  PCS Mode CH-600
  Cheek
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=85.0 y=-6.0 = 1.34 W/kg

Zoom Scan - Max Peak SAR Value at x=85.0 y=-5.0 z=0.0 = 2.05 W/kg

Max 1g SAR at x=85.0 y=-5.0 z=0.0 = 1.34 W/kg

Max 10g SAR at x=82.0 y=-4.0 z=0.0 = 0.82 W/kg
```

SAR - Z Axis
at Hotspot x:85.0 y:-5.0



1g SAR Values

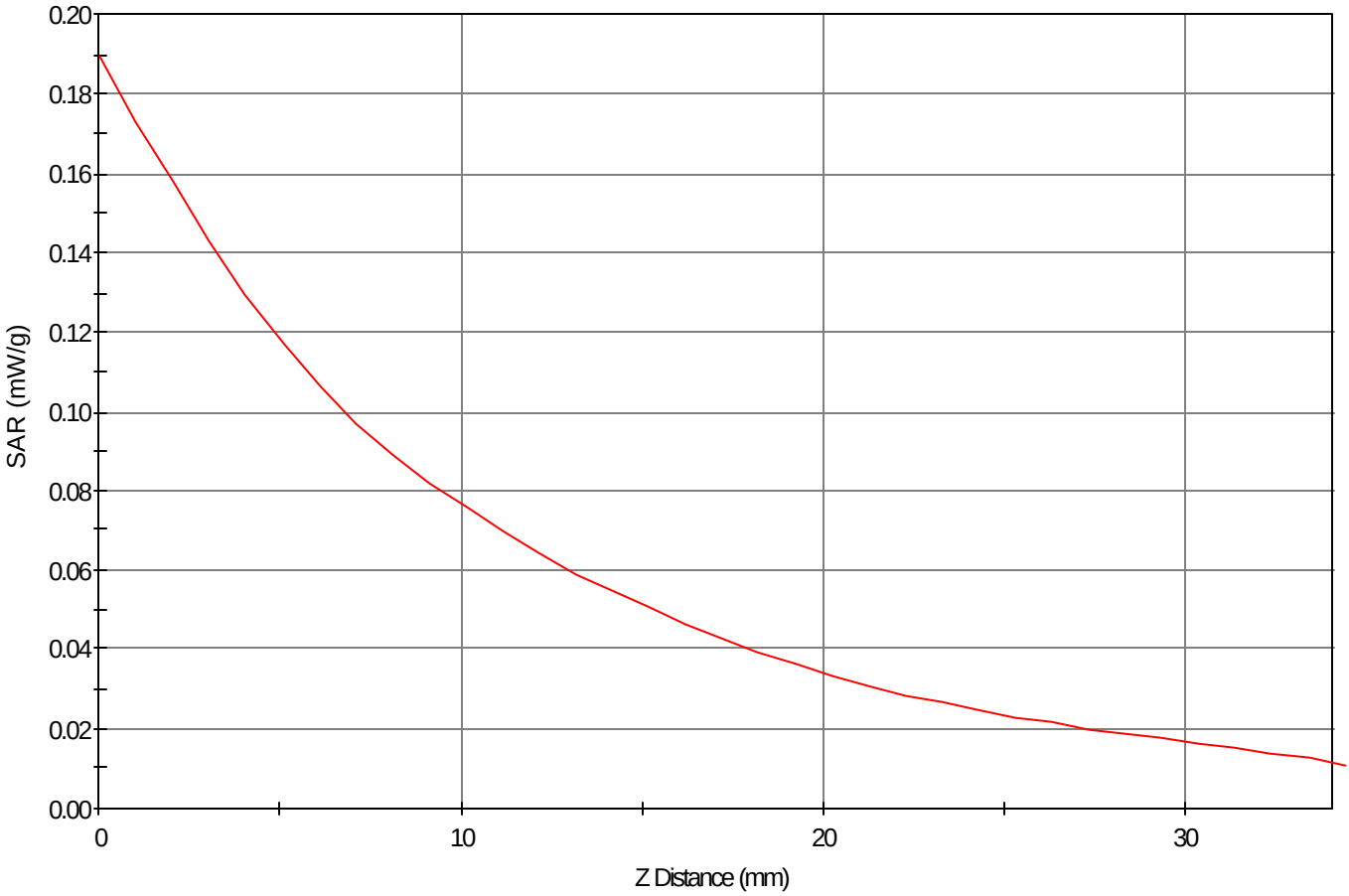



TALK
END

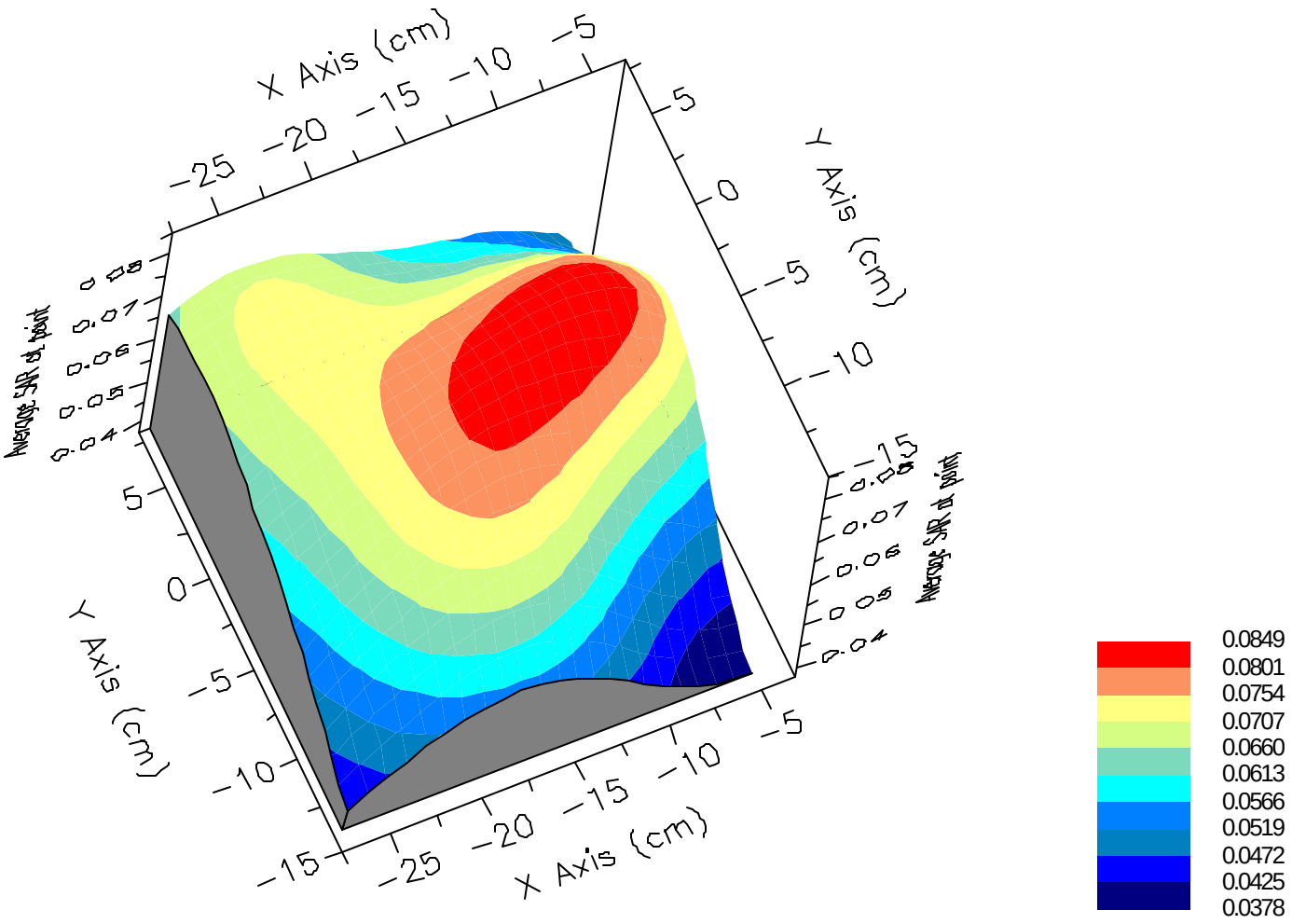
SAR Data Report 02071524

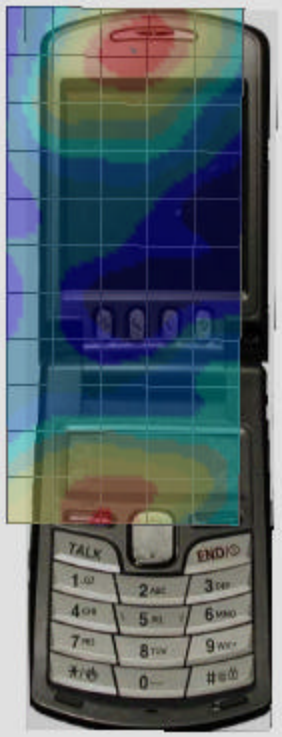
```
  Start        : 15-Jul-02 05:23:28 pm
  End          : 15-Jul-02 05:30:21 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 1880.00 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-L
  Phantom Type        : Left Ear
  Tissue Type         : Brain
  Tissue Dielectric   : 41.110
  Tissue Conductivity : 1.420
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 1900 MHz
  Tissue Type             : Brain
  Calibrated Dielectric   : 40.200
  Calibrated Conductivity :  1.410
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.700
  Probe Sensitivity :  3.000   2.995   2.653   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  PCS Mode CH-600
  Tilt
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=-16.0 y=-3.0 = 0.08 W/kg

Zoom Scan - Max Peak SAR Value at x=-8.0 y=-2.0 z=0.0 = 0.19 W/kg

Max 1g SAR at x=-12.0 y=-3.0 z=0.0 = 0.08 W/kg

Max 10g SAR at x=-16.0 y=0.0 z=0.0 = 0.05 W/kg
```

SAR - Z Axis
at Hotspot x:-8.0 y:-2.0



1g SAR Values

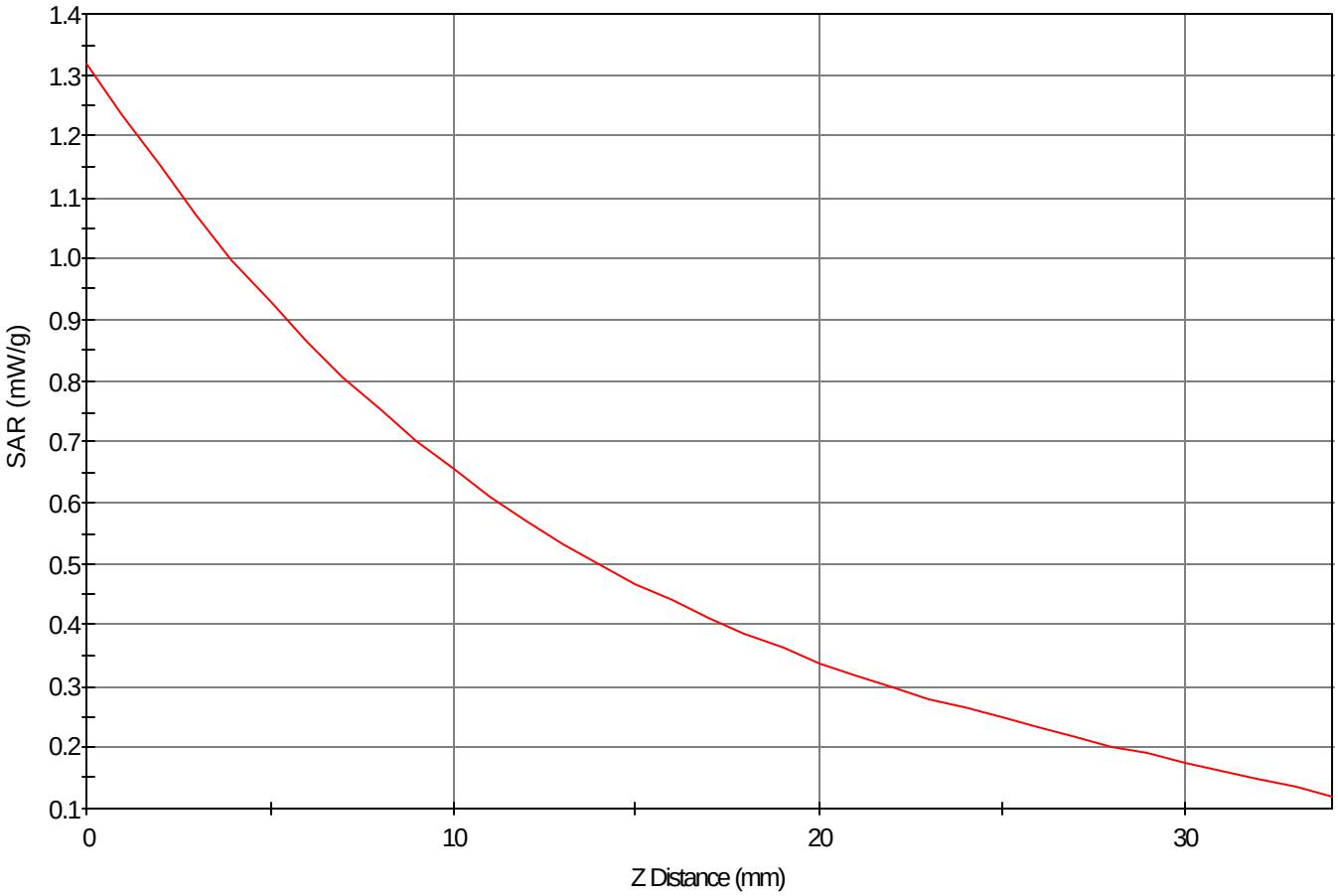


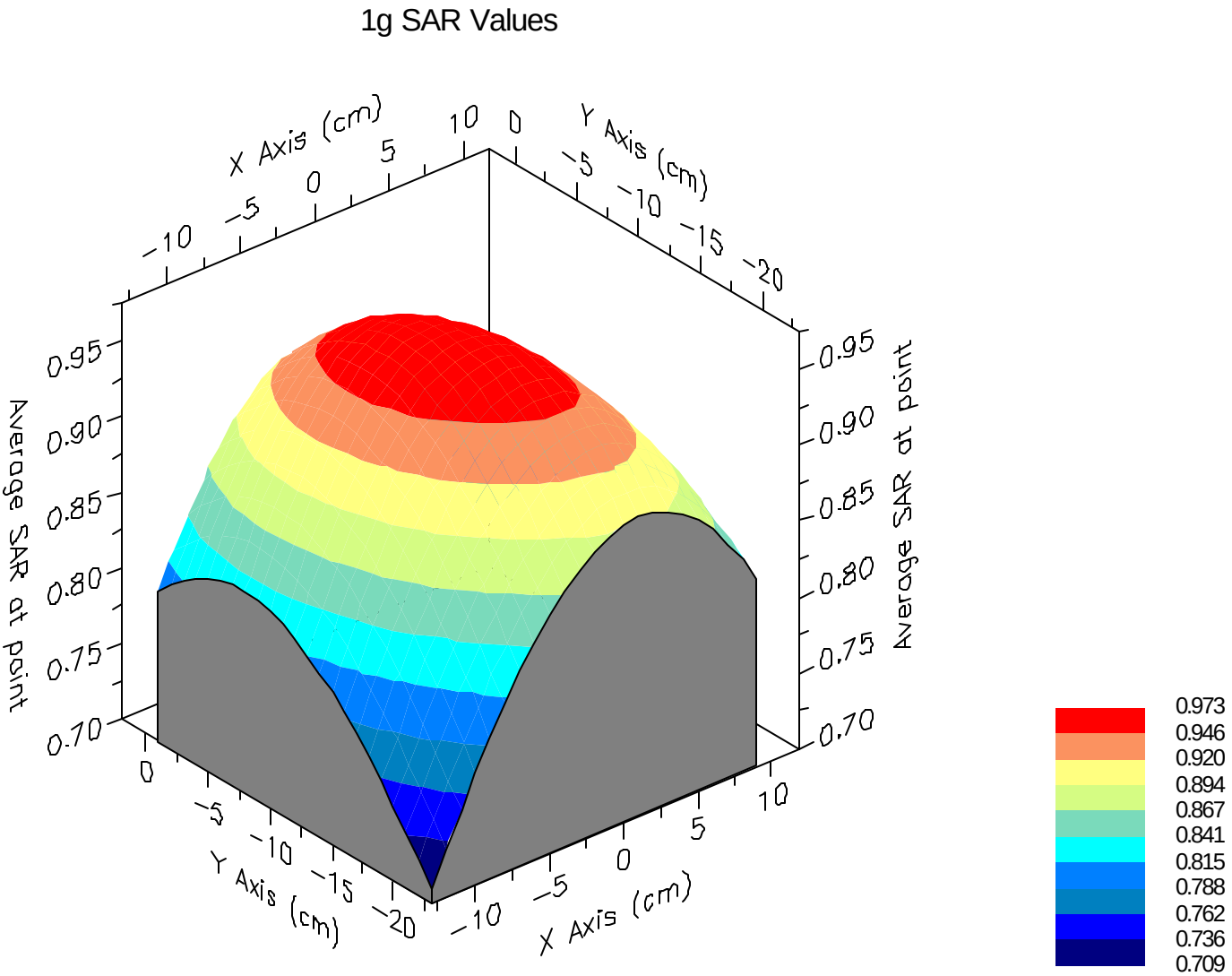

TALK
END
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

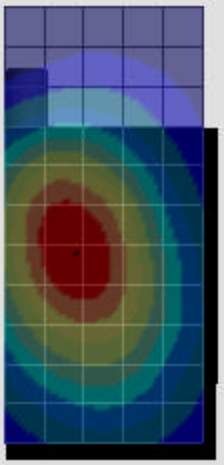
SAR Data Report 02071717

```
  Start        : 17-Jul-02 02:17:57 pm
  End          : 17-Jul-02 02:23:56 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9340
  Frequency        : 848.97 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-FLAT
  Phantom Type        : Uniphantom
  Tissue Type         : Muscle
  Tissue Dielectric   : 54.960
  Tissue Conductivity : 1.000
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Muscle
  Calibrated Dielectric   : 55.700
  Calibrated Conductivity :  0.990
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.900
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  AMPS Mode CH-799
  Body
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=-2.0 y=-12.0 = 0.96 W/kg

Zoom Scan - Max Peak SAR Value at x=-5.0 y=-9.0 z=0.0 = 1.32 W/kg

Max 1g SAR at x=-2.0 y=-11.0 z=0.0 = 0.97 W/kg

Max 10g SAR at x=-1.0 y=-12.0 z=0.0 = 0.66 W/kg
```

SAR - Z Axis
at Hotspot x:-5.0 y:-9.0



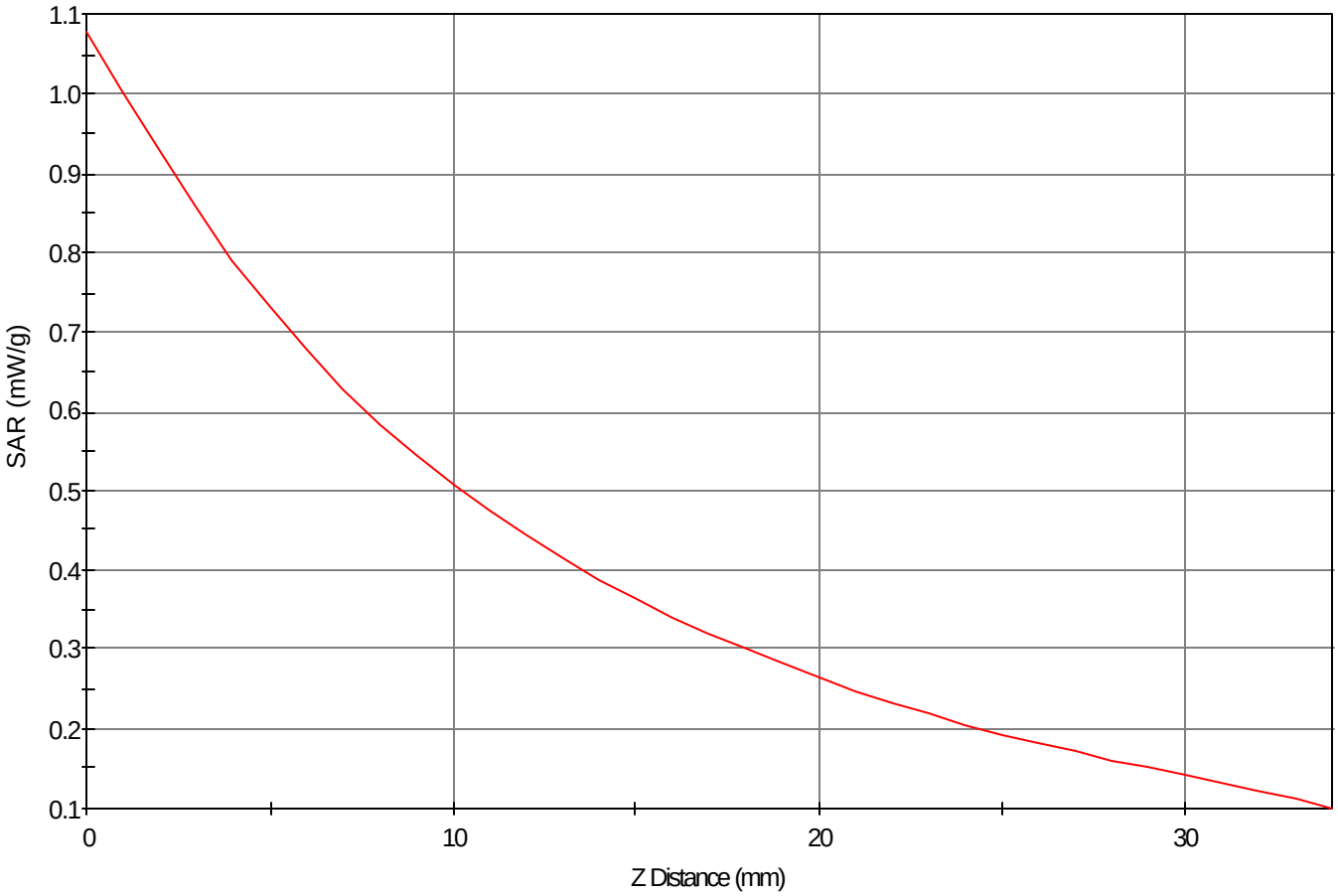

1g SAR Values
X Axis (cm)
Y Axis (cm)
Average SAR at point
0.95
0.90
0.85
0.80
0.75
0.70
0.973
0.946
0.920
0.894
0.867
0.841
0.815
0.788
0.762
0.736
0.709



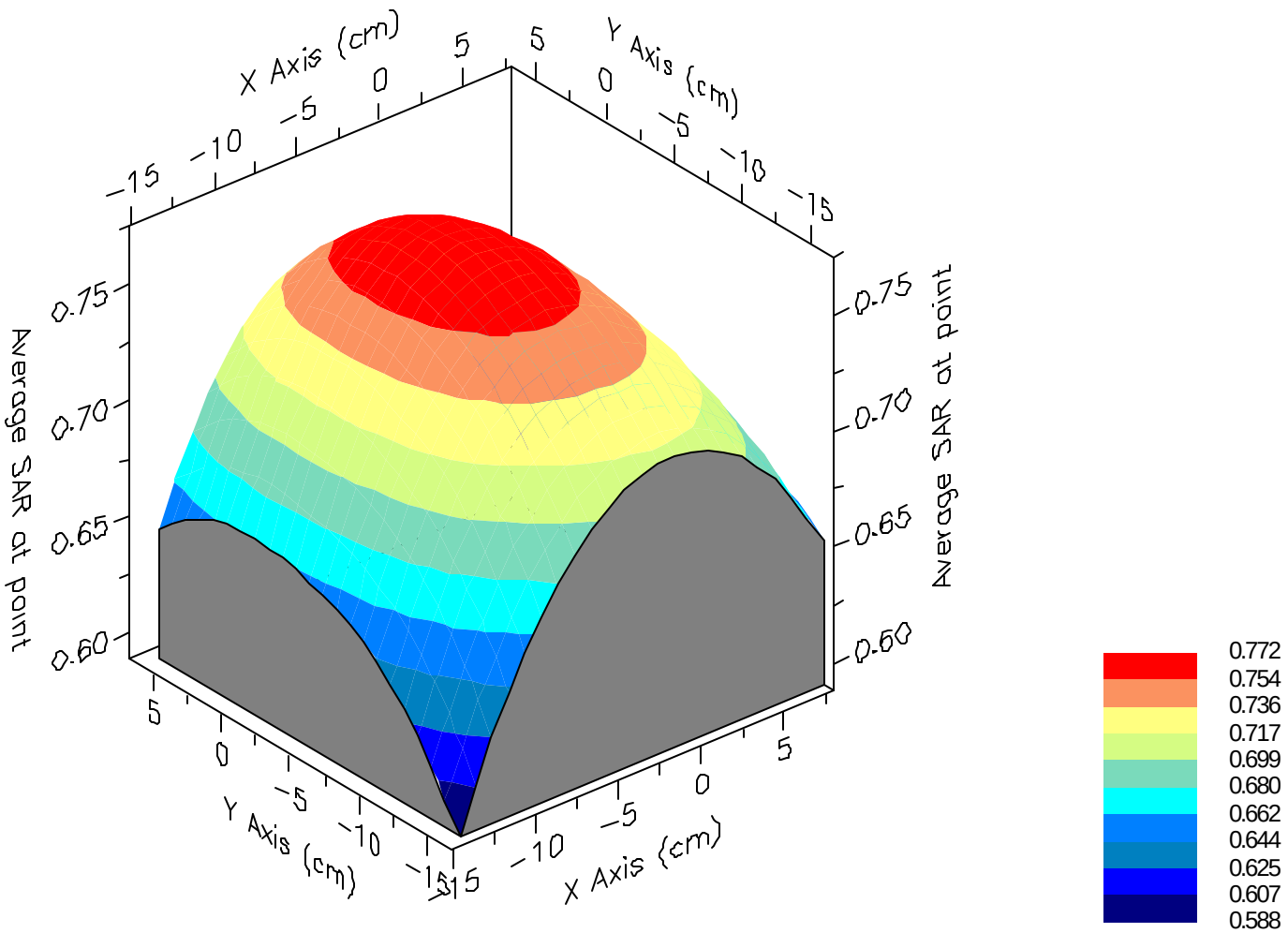
SAR Data Report 02071718

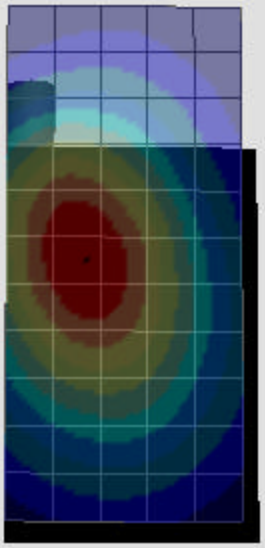
```
  Start        : 17-Jul-02 02:35:57 pm
  End          : 17-Jul-02 02:41:54 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9341
  Frequency        : 848.31 MHz
  Transmit Pwr     : 0.400 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-FLAT
  Phantom Type        : Uniphantom
  Tissue Type         : Muscle
  Tissue Dielectric   : 54.960
  Tissue Conductivity : 1.000
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 835 MHz
  Tissue Type             : Muscle
  Calibrated Dielectric   : 55.700
  Calibrated Conductivity :  0.990
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.900
  Probe Sensitivity :  3.597   3.474   3.049   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  CDMA Mode CH-777
  Body
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=-3.0 y=-5.0 = 0.78 W/kg

Zoom Scan - Max Peak SAR Value at x=-6.0 y=-3.0 z=0.0 = 1.08 W/kg

Max 1g SAR at x=-4.0 y=-3.0 z=0.0 = 0.77 W/kg

Max 10g SAR at x=-2.0 y=-5.0 z=0.0 = 0.52 W/kg
```

SAR - Z Axis
at Hotspot x:-6.0 y:-3.0



1g SAR Values

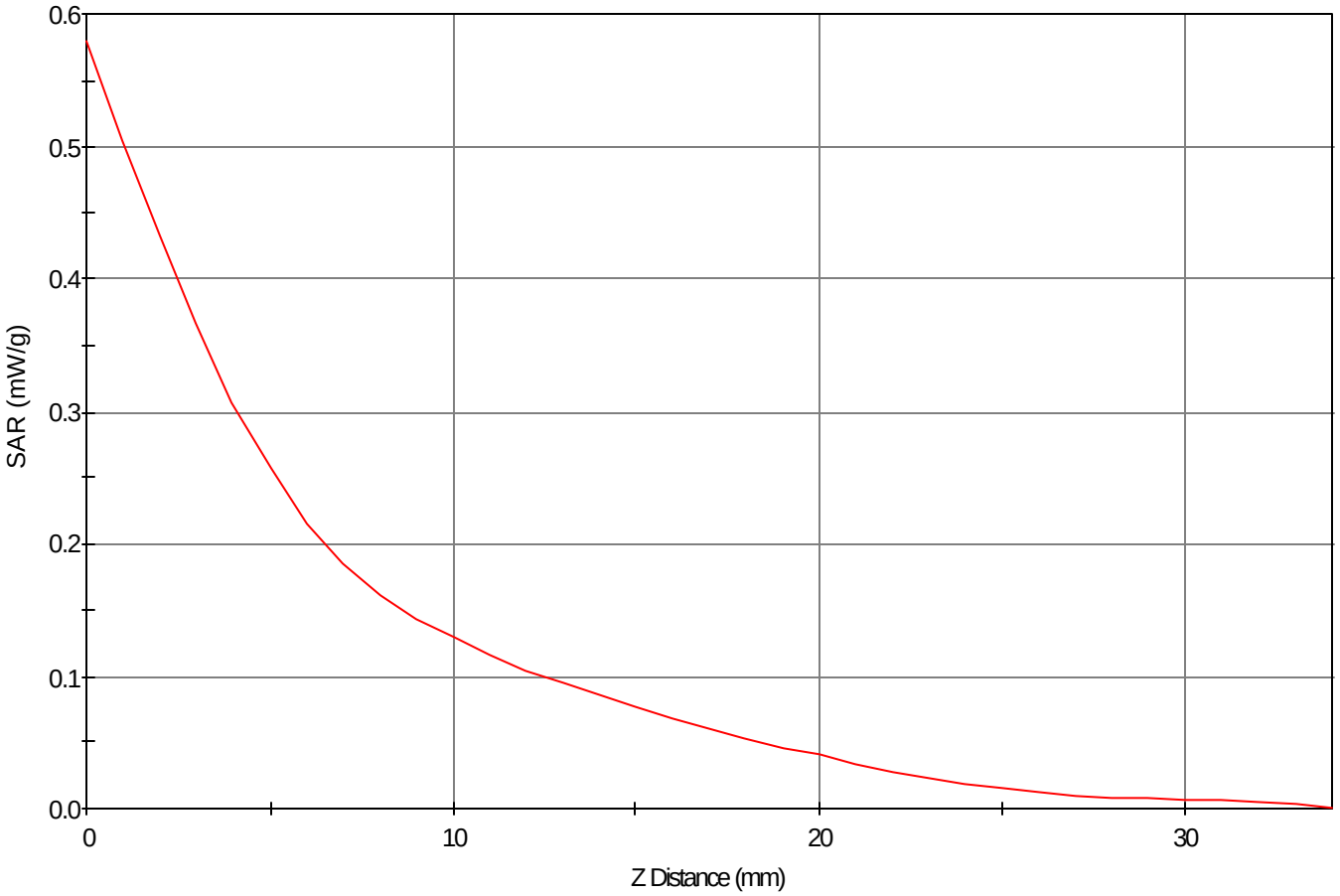




SAR Data Report 02071721

```
  Start        : 17-Jul-02 03:15:08 pm
  End          : 17-Jul-02 03:21:10 pm
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SPH-i500
  Serial Number    : F1BE9340
  Frequency        : 1908.75 MHz
  Transmit Pwr     : 0.280 W
  Antenna Type     : Helical
  Antenna Posn.    : Fixed

Measurement Data:
  Phantom Name        : SAM-FLAT
  Phantom Type        : Uniphantom
  Tissue Type         : Muscle
  Tissue Dielectric   : 54.000
  Tissue Conductivity : 1.530
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT002
  Probe Type              : E Fld Triangle
  Frequency               : 1900 MHz
  Tissue Type             : Muscle
  Calibrated Dielectric   : 53.900
  Calibrated Conductivity :  1.480
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       :  4.500
  Probe Sensitivity :  3.000   2.995   2.653   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  PCS Mode CH-1175
  Body
  CF=1; Amb. Temp= 22.4 'C; Liq. Temp=22.1 'C



Area Scan - Max Peak SAR Value at x=11.0 y=-35.0 = 0.25 W/kg

Zoom Scan - Max Peak SAR Value at x=3.0 y=-26.0 z=0.0 = 0.58 W/kg

Max 1g SAR at x=7.0 y=-24.0 z=0.0 = 0.29 W/kg

Max 10g SAR at x=11.0 y=-30.0 z=0.0 = 0.17 W/kg
```

SAR - Z Axis
at Hotspot x:3.0 y:-26.0



1g SAR Values