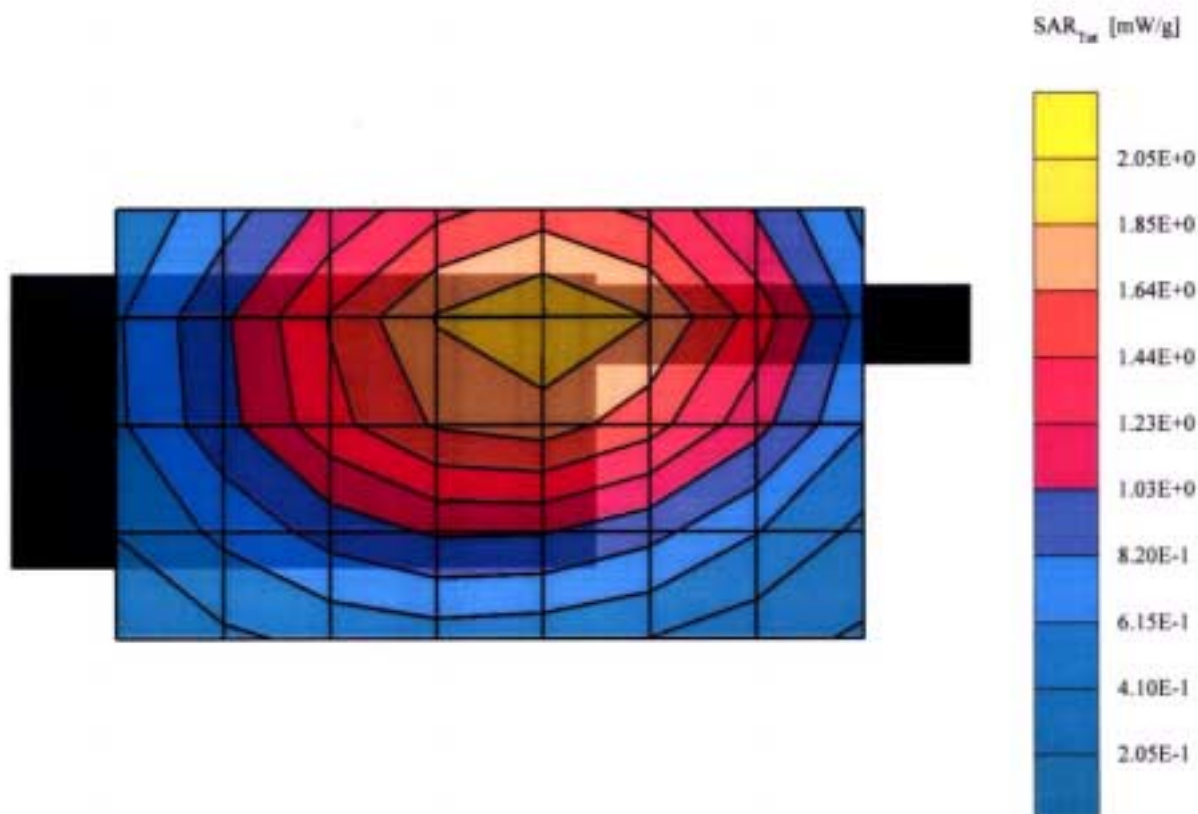




APPENDIX A – SAR TEST PLOTS

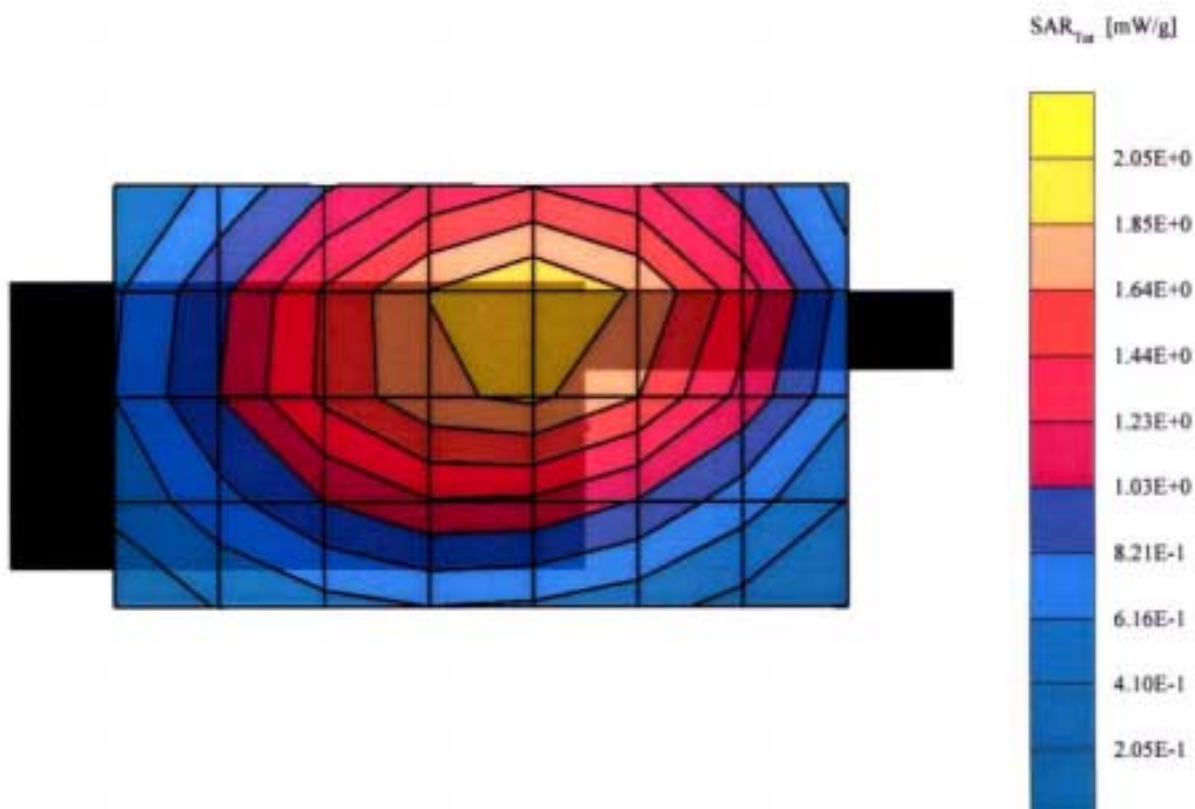
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608; ConvF(7.13,7.13,7.13); Crest factor: 1.0; Muscle 450 MHz: $\sigma = 0.83$ mho/m $\epsilon_r = 44.3$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 1.79 mW/g, SAR (10g): 1.30 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -1.04 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 1.99W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 1 (462.5625MHz))
Date Tested: May 15, 2002



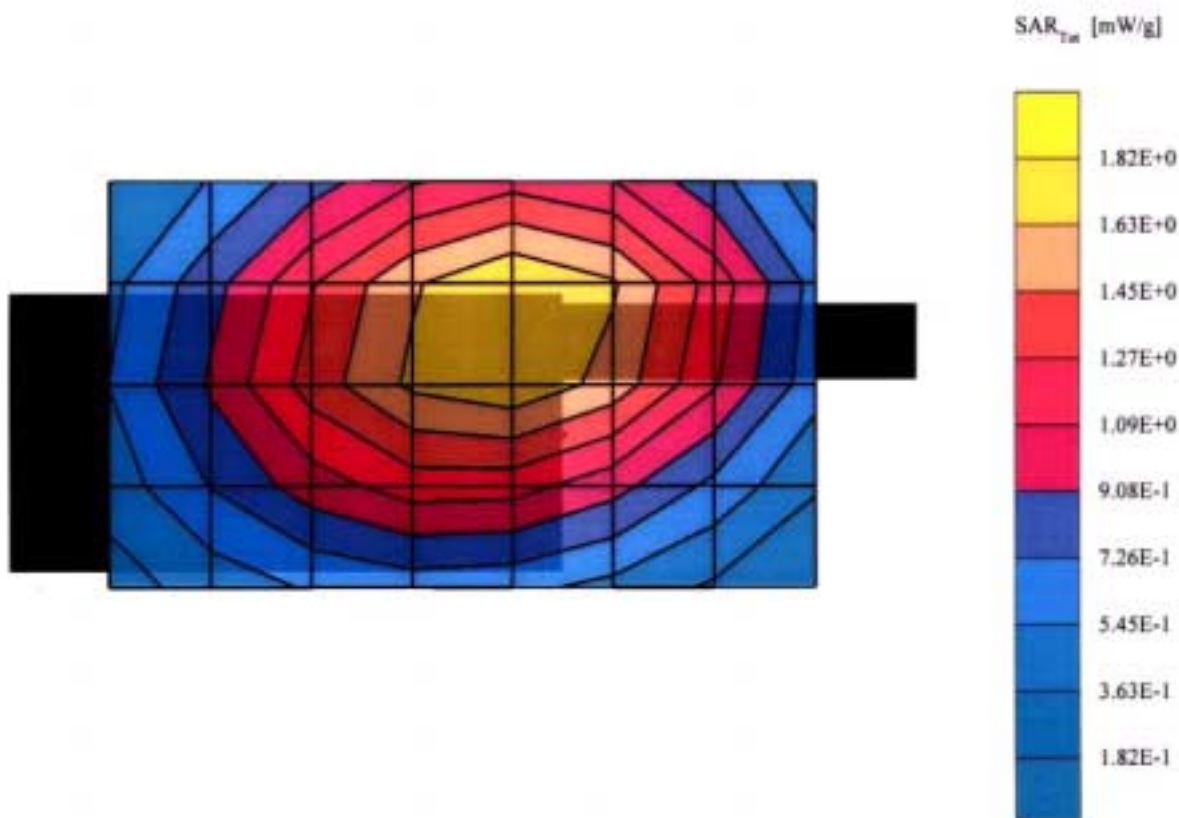
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13): Crest factor: 1.0: Muscle 450 MHz: $s = 0.83 \text{ mho/m}$ e, $\rho = 44.3 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.84 mW/g, SAR (10g): 1.33 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -0.96 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 2.02W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 15 (462.5500MHz)
Date Tested: May 15, 2002



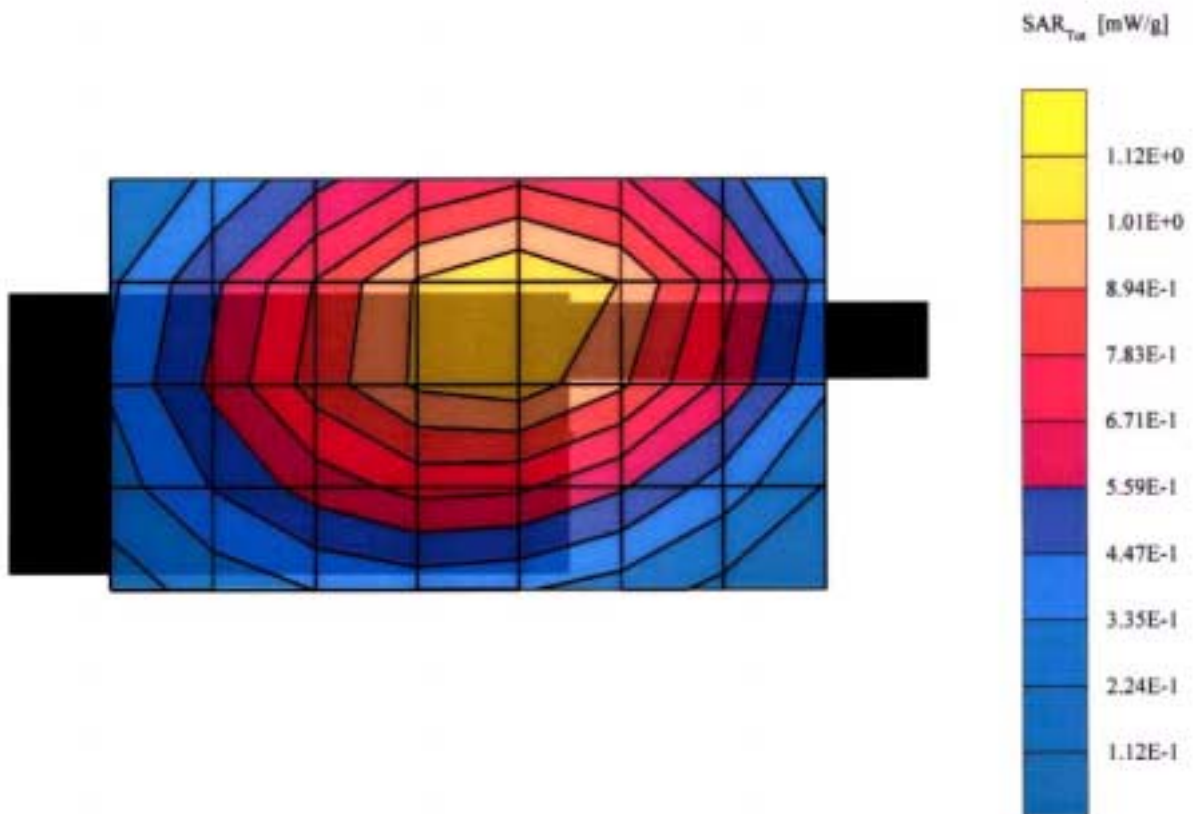
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608; ConvF(7.13,7.13,7.13); Crest factor: 1.0; Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\epsilon_r = 44.3$, $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.71 mW/g, SAR (10g): 1.23 mW/g. (Worst-case extrapolation)
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
: Powerdrift: -0.85 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 2.05W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 22 (462.7250MHz))
Date Tested: May 15, 2002



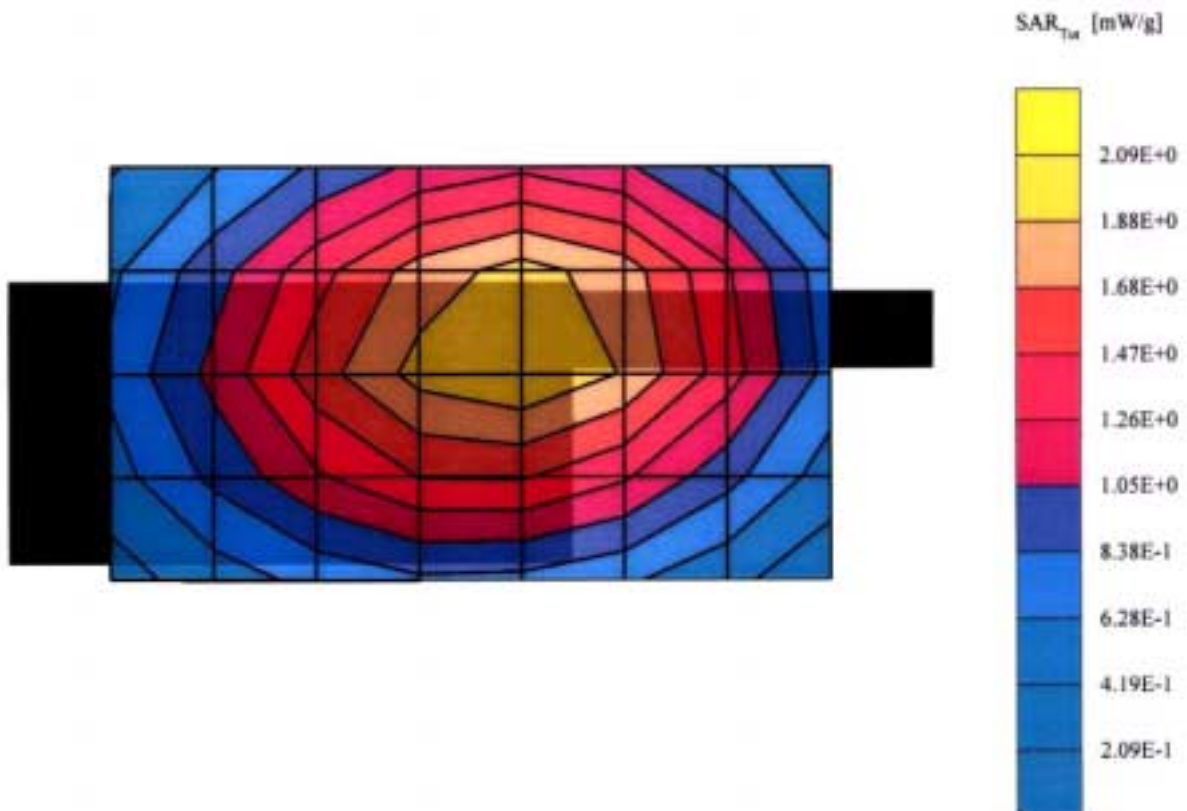
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13): Crest factor: 1.0: Muscle 450 MHz: $\sigma = 0.83$ mho/m $\epsilon_r = 44.3$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 1.04 mW/g, SAR (10g): 0.753 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -0.63 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 0.564W (Battery Type: Toshiba LR03G)
Mode: FM (FRS Channel: 8 (467.5625MHz))
Date Tested: May 15, 2002



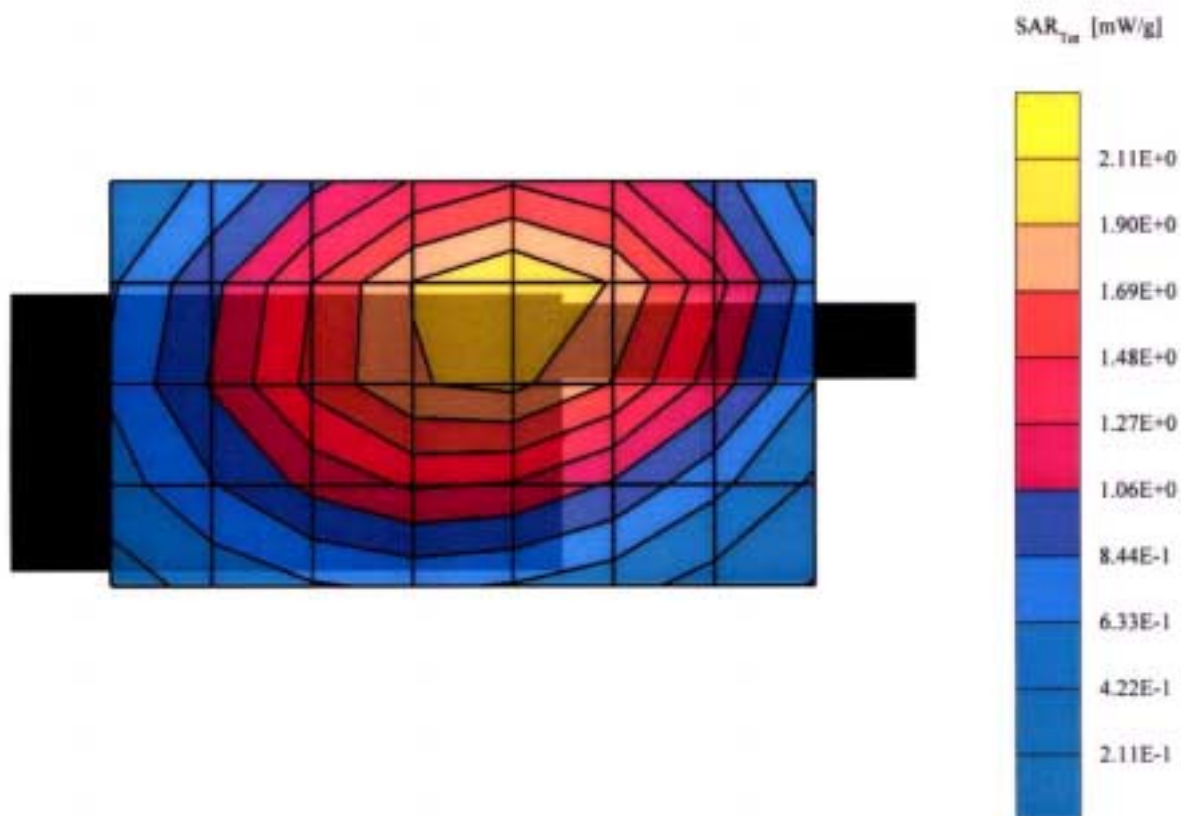
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7,13,7,13,7,13): Crest factor: 1.0: Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\epsilon = 44.3$, $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.87 mW/g, SAR (10g): 1.36 mW/g * Max outside. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -1.05 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 1.90W (Battery Type: Energizer 2008)
Mode: FM (GMRS Channel: 15 (462.5500MHz))
Date Tested: May 15, 2002



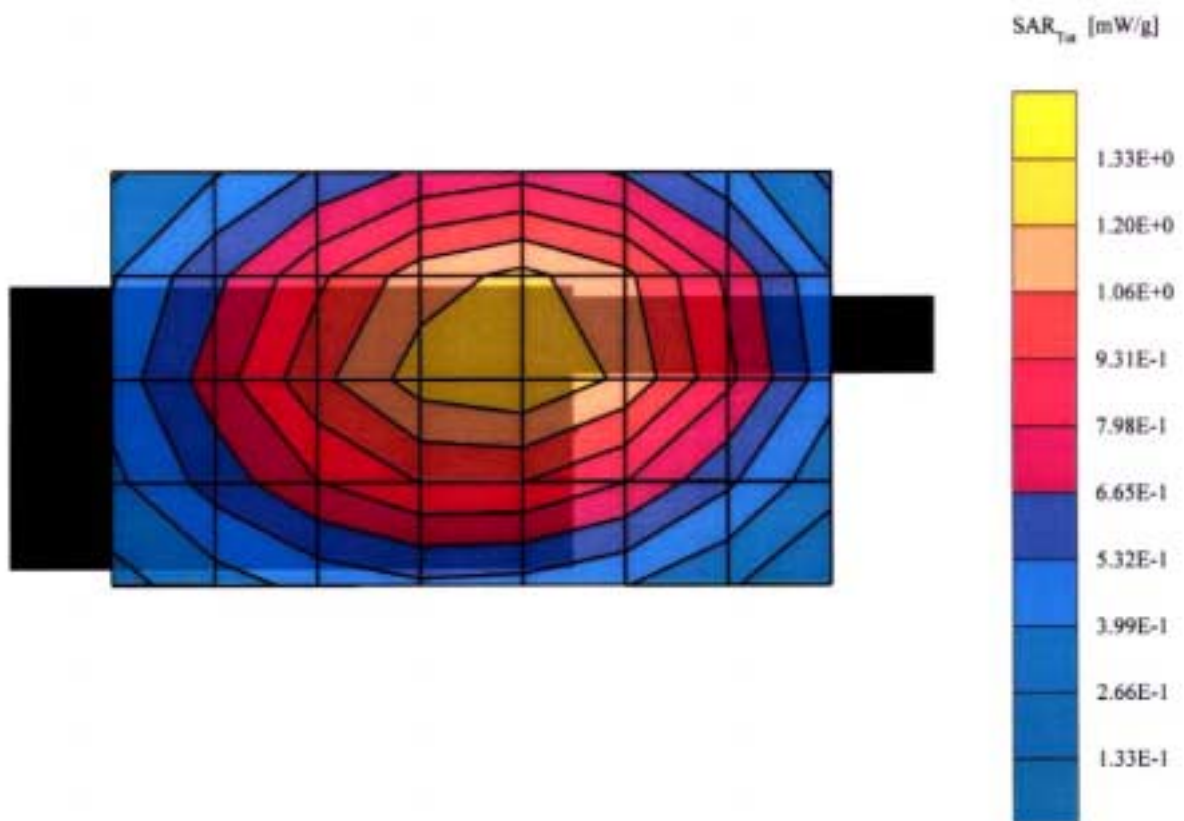
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13): Crest factor: 1.0: Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\rho = 44.3 \text{ g/cm}^3$
= 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 1.88 mW/g, SAR (10g): 1.36 mW/g. (Worst-case extrapolation)
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
: Powerdrift: -1.01 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 1.84W (Battery Type: Rocket LR03)
Mode: FM (GMRS Channel: 15 (462.5500MHz))
Date Tested: May 15, 2002



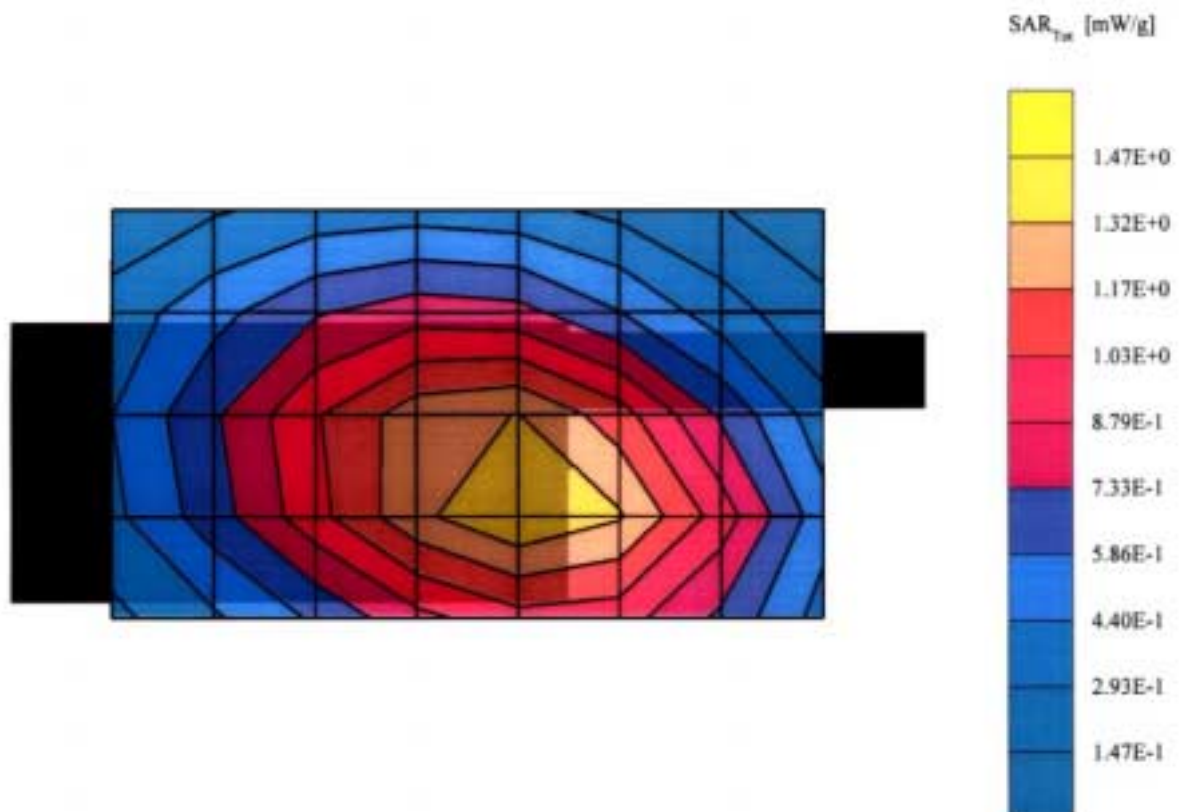
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13): Crest factor: 1.0: Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\rho = 44.3 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.21 mW/g, SAR (10g): 0.875 mW/g • Max outside, (Worst-case extrapolation)
Coarse: $O_x = 20.0$, $O_y = 20.0$, $O_z = 10.0$
: Powerdrift: -0.85 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: In (fixed)
Conducted Power: 0.563W (Battery Type: Energizer 2008)
Mode: FM (FRS Channel: 8 (467.5625MHz))
Date Tested: May 15, 2002



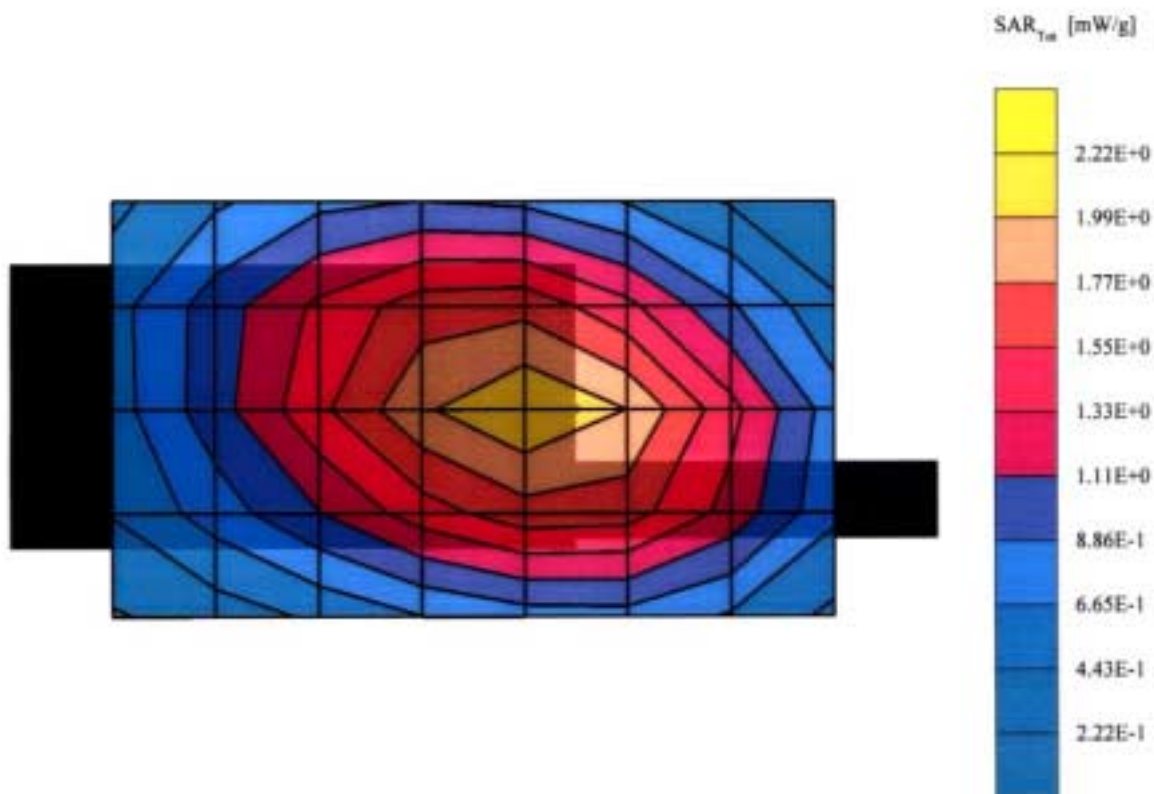
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13): Crest factor: 1.0: Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\epsilon = 44.3$, $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.34 mW/g, SAR (10g): 0.955 mW/g, (Worst-case extrapolation)
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
: Powerdrift: -0.67 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Mouth- Face / Antenna: in (fixed)
Conducted Power: 0.561W (Battery Type: Rocket LR03)
Mode: FM (FRS Channel: 8 (467.5625MHz))
Date Tested: May 15, 2002



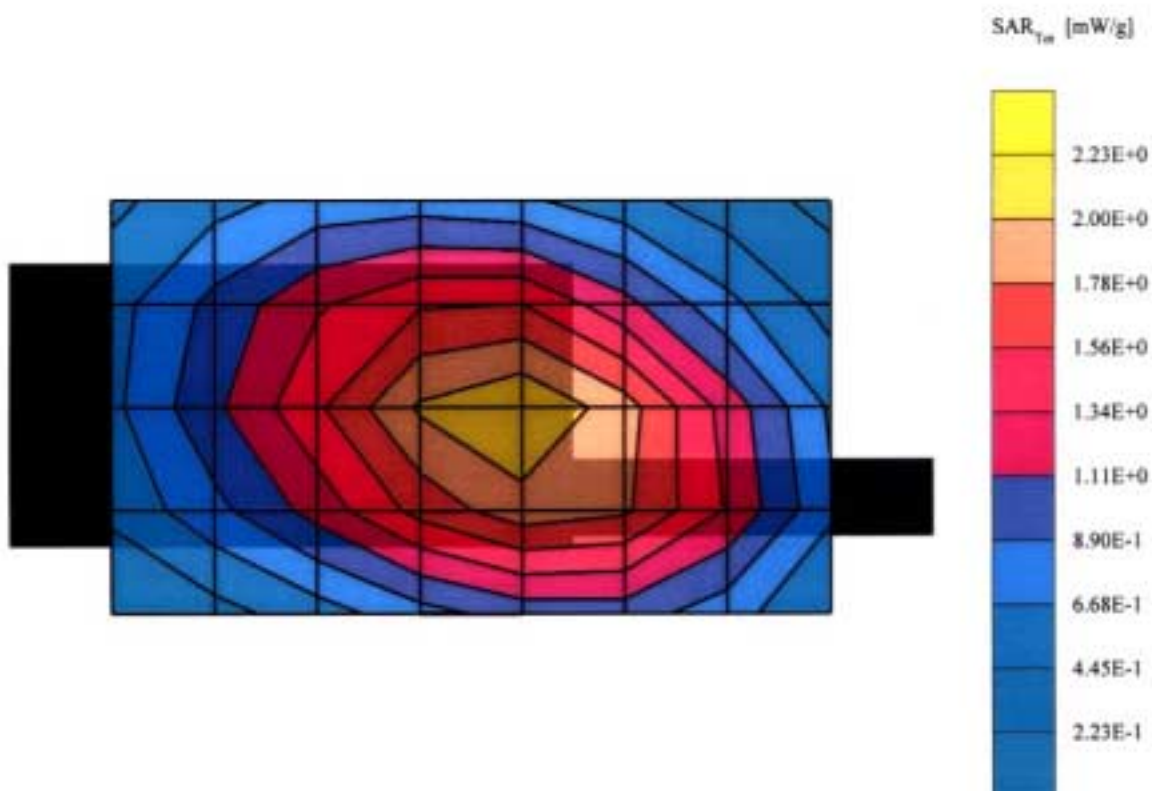
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70): Crest factor: 1.0: Muscle 450 MHz: $s = 0.96 \text{ mho/m}$ e, $\rho = 56.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.98 mW/g, SAR (10g): 1.39 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -0.69 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 1.98W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 1 (462.5625MHz))
Date Tested: May 14, 2002



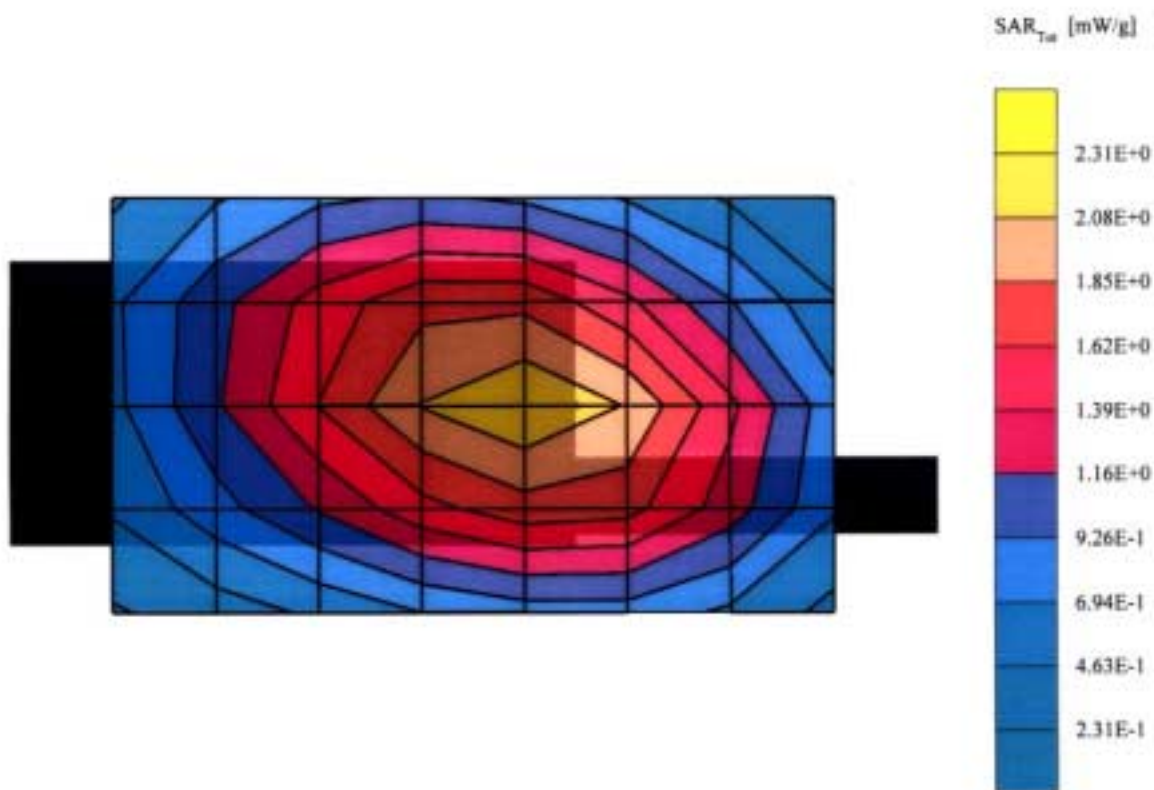
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70); Crest factor: 1.0; Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\rho = 56.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.97 mW/g, SAR (10g): 1.39 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.94 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 2.01W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 15 (462.5500MHz))
Date Tested: May 14, 2002



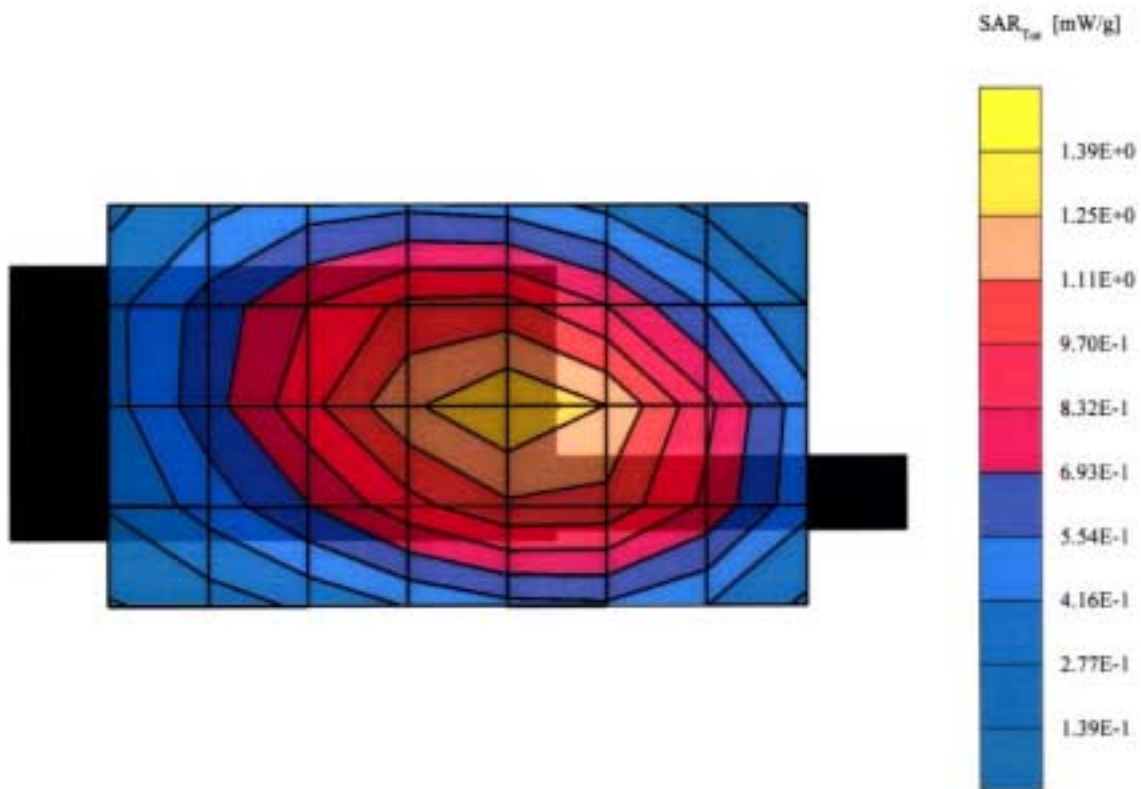
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70): Crest factor: 1.0: Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\rho = 56.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.98 mW/g, SAR (10g): 1.41 mW/g. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -1.09 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 2.06W (Battery Type: Toshiba LR03G)
Mode: FM (GMRS Channel: 22 (462.7250MHz))
Date Tested: May 14, 2002



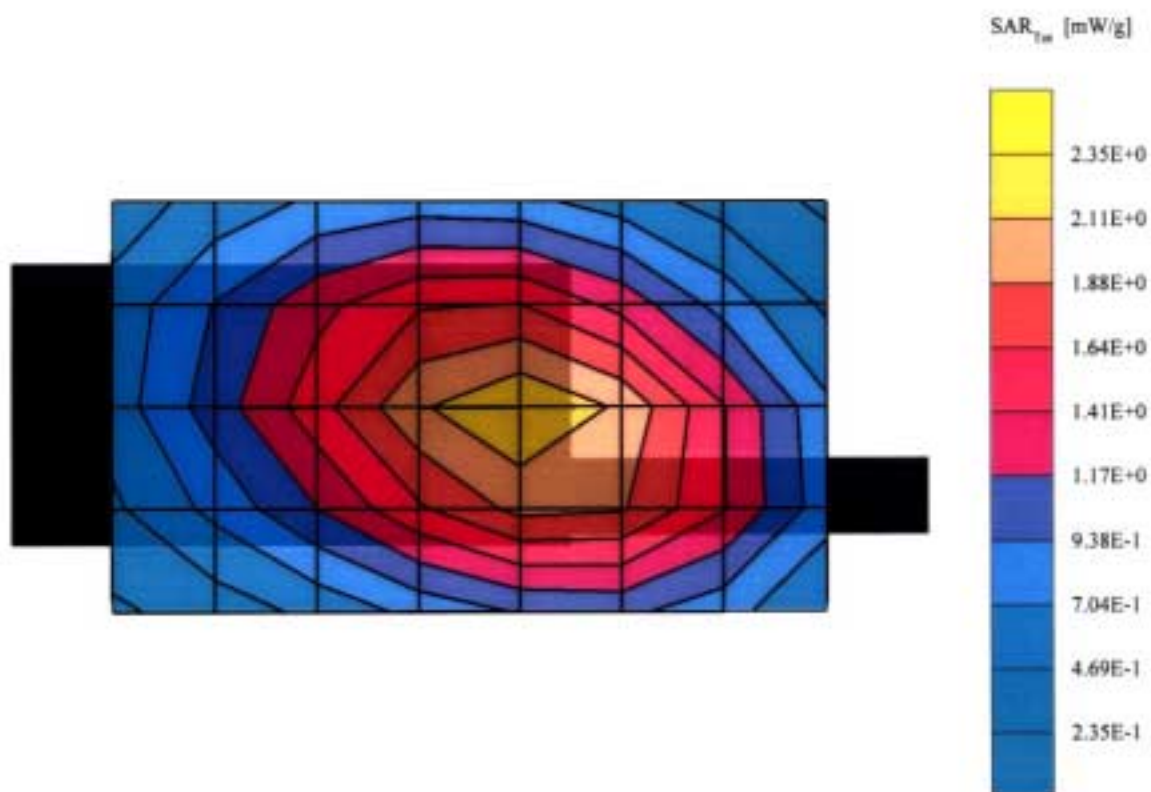
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70); Crest factor: 1.0; Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\rho = 56.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.20 mW/g, SAR (10g): 0.849 mW/g. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -0.99 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 0.563W (Battery Type: Toshiba LR03G)
Mode: FM (FRS Channel: 8 (467.5625MHz))
Date Tested: May 14, 2002



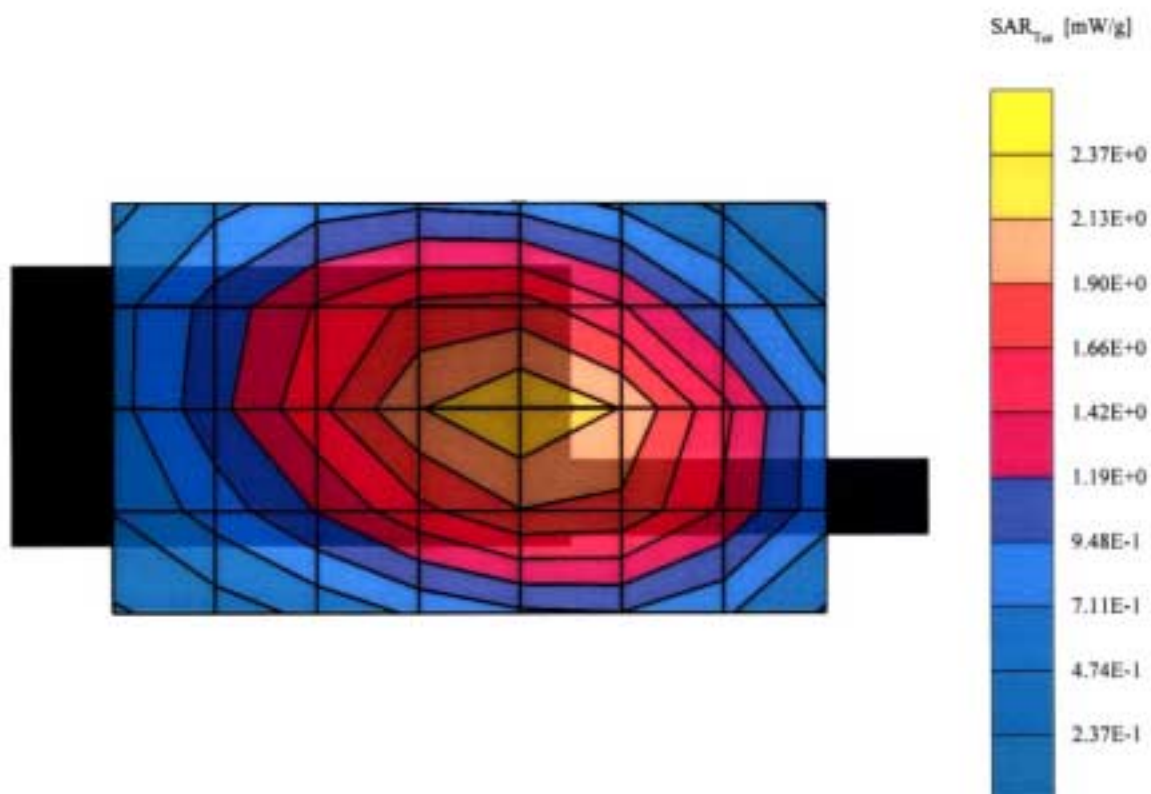
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70): Crest factor: 1.0: Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\rho = 56.9 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 2.02 mW/g, SAR (10g): 1.43 mW/g. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -1.07 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 1.89W (Battery Type: Energizer 2008)
Mode: FM (GMRS Channel: 22 (462.7250MHz))
Date Tested: May 14, 2002



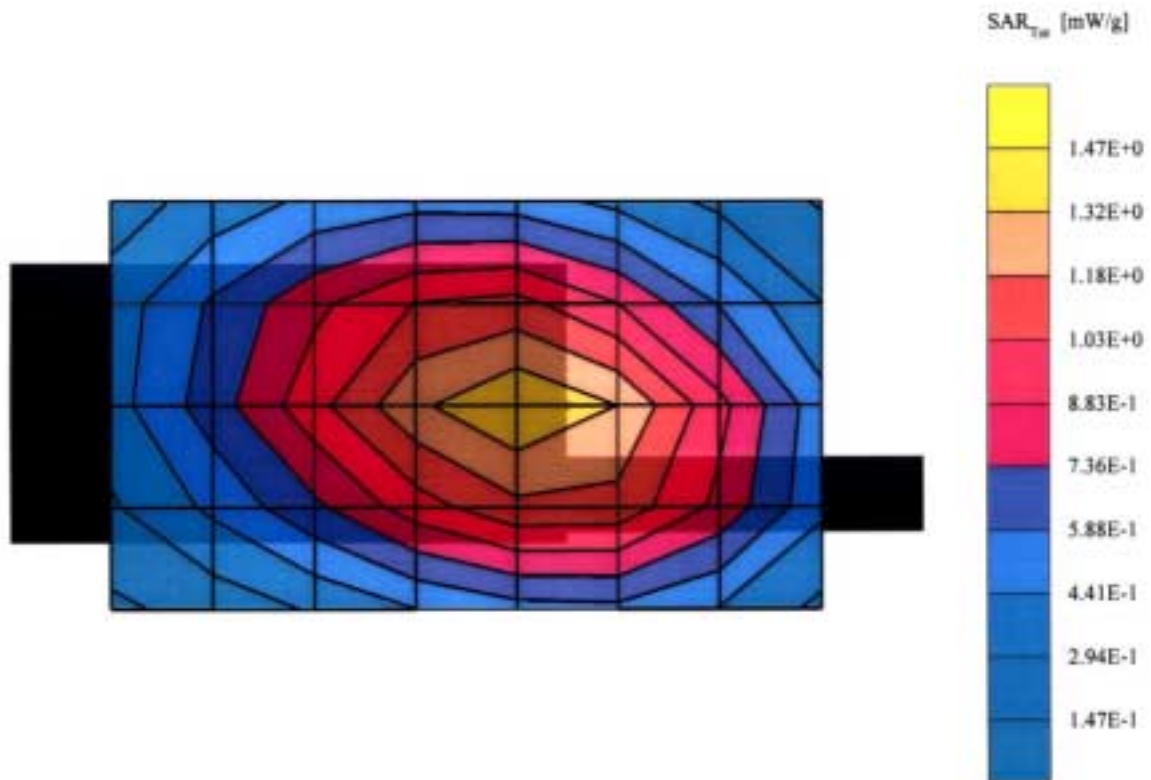
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608; ConvF(7.70,7.70,7.70); Crest factor: 1.0; Muscle 450 MHz: $s = 0.96$ mho/m $\epsilon_r = 56.9$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 2.06 mW/g, SAR (10g): 1.46 mW/g. (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
: Powerdrift: -0.99 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 1.89W (Battery Type: Rocket LR03)
Mode: FM (GMRS Channel: 22 (462.7250MHz))
Date Tested: May 14, 2002



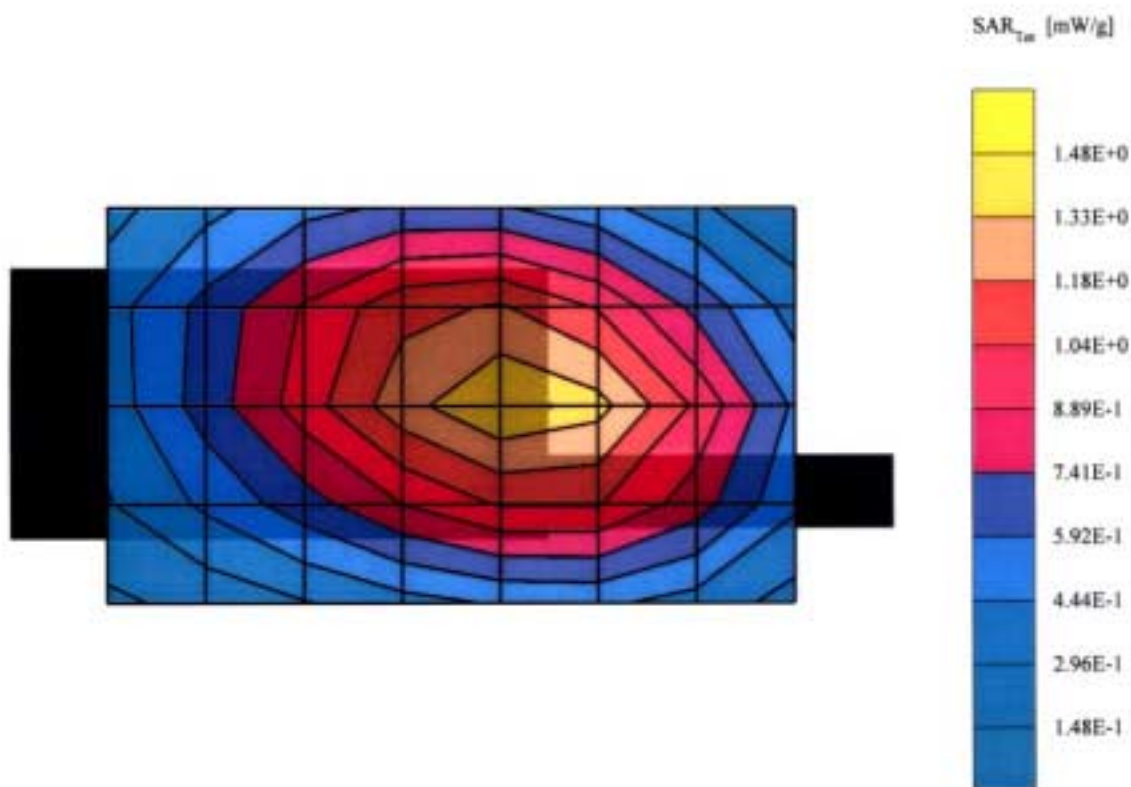
GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70): Crest factor: 1.0: Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\epsilon_r = 56.9$, $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.28 mW/g, SAR (10g): 0.906 mW/g, (Worst-case extrapolation)
Coarse: $D_x = 20.0$, $D_y = 20.0$, $D_z = 10.0$
: Powerdrift: -0.87 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 0.564W (Battery Type: Energizer 200B)
Mode: FM (FRS Channel: 8 (467.5625MHz))
Date Tested: May 14, 2002



GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section; Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608; ConvF(7.70,7.70,7.70); Crest factor: 1.0; Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $e = 56.9$, $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7; SAR (1g): 1.31 mW/g, SAR (10g): 0.929 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.82 dB
Comment:
FCC ID : OAJGMRS2200XTM
Company: J Communications Co., Ltd.
Body / Antenna: in (fixed)
Conducted Power: 0.560W (Battery Type: Rocket LR03)
Mode: FM (GMRS Channel: 8 (467.5625MHz))
Date Tested: May 14, 2002



GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°); Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.13,7.13,7.13); Crest factor: 1.0; Muscle 450 MHz: $s = 0.83 \text{ mho/m}$, $\epsilon_r = 44.3$
 $\rho = 1.00 \text{ g/cm}^3$
Cube 5x5x7: SAR (1g): 1.88 mW/g, SAR (10g): 1.36 mW/g, (Worst-case extrapolation)
Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

Comment:

FCC ID : OAJGMRS2200XTM

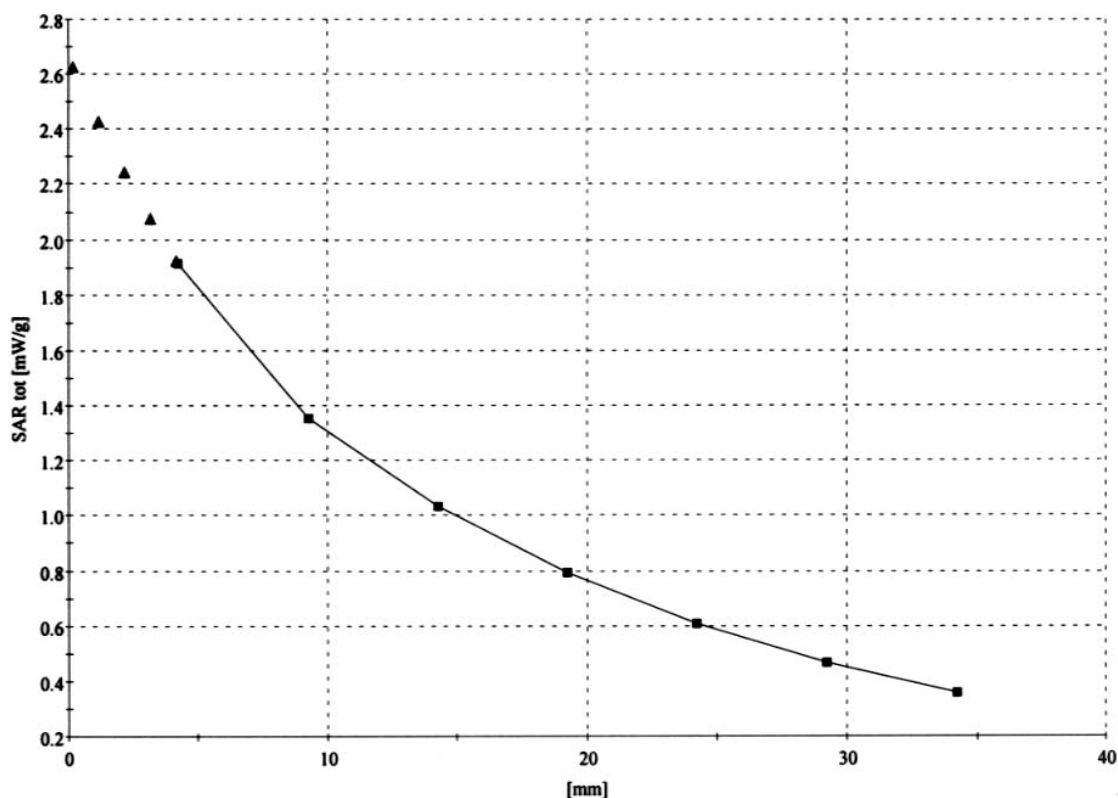
Company: J Communications Co., Ltd.

Mouth- Face / Antenna: in (fixed)

Conducted Power: 1.84W (Battery Type: Rocket LR03)

Mode: FM (GMRS Channel: 15 (462.5500MHz))

Date Tested: May 15, 2002



GMRS-2200XTM

SAM (835MHz) Phantom: Flat Section: Position: (90°,90°): Frequency: 450 MHz
Probe: ET3DV6 - SN1608: ConvF(7.70,7.70,7.70): Crest factor: 1.0: Muscle 450 MHz: $s = 0.96 \text{ mho/m}$, $\epsilon_r = 56.9$
 $\rho = 1.00 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 2.06 mW/g, SAR (10g): 1.46 mW/g, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

:

Comment:

FCC ID : OAJGMRS2200XTM

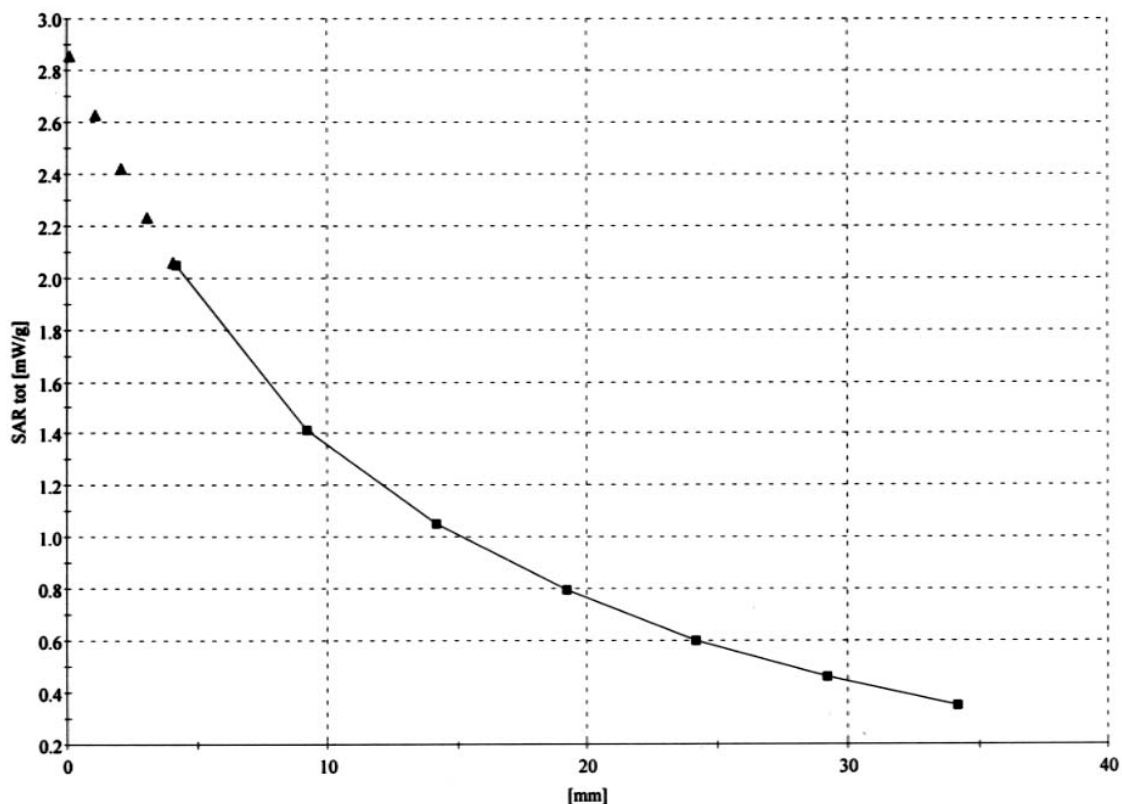
Company: J Communications Co., Ltd.

Body / Antenna: in (fixed)

Conducted Power: 1.89W (Battery Type: Rocket LR03)

Mode: FM (GMRS Channel: 22 (462.7250MHz))

Date Tested: May 14, 2002



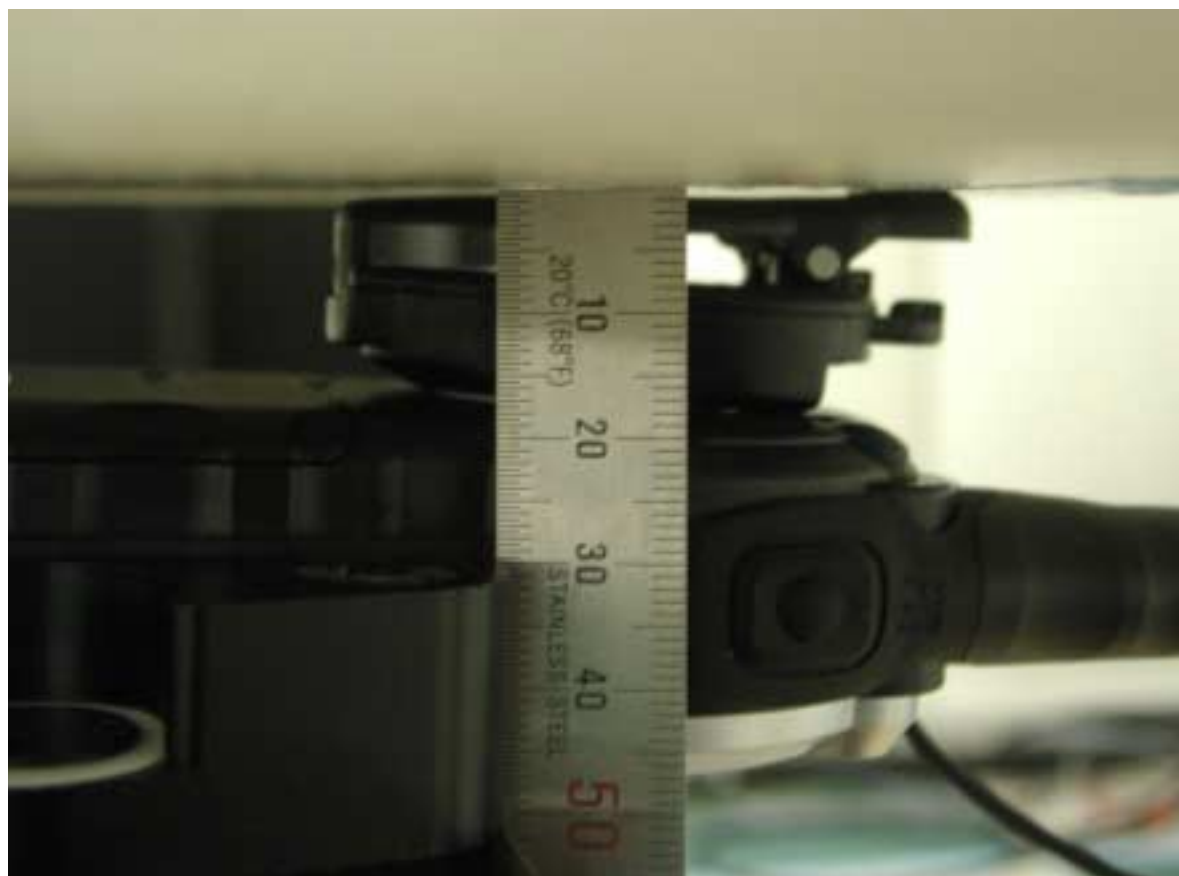
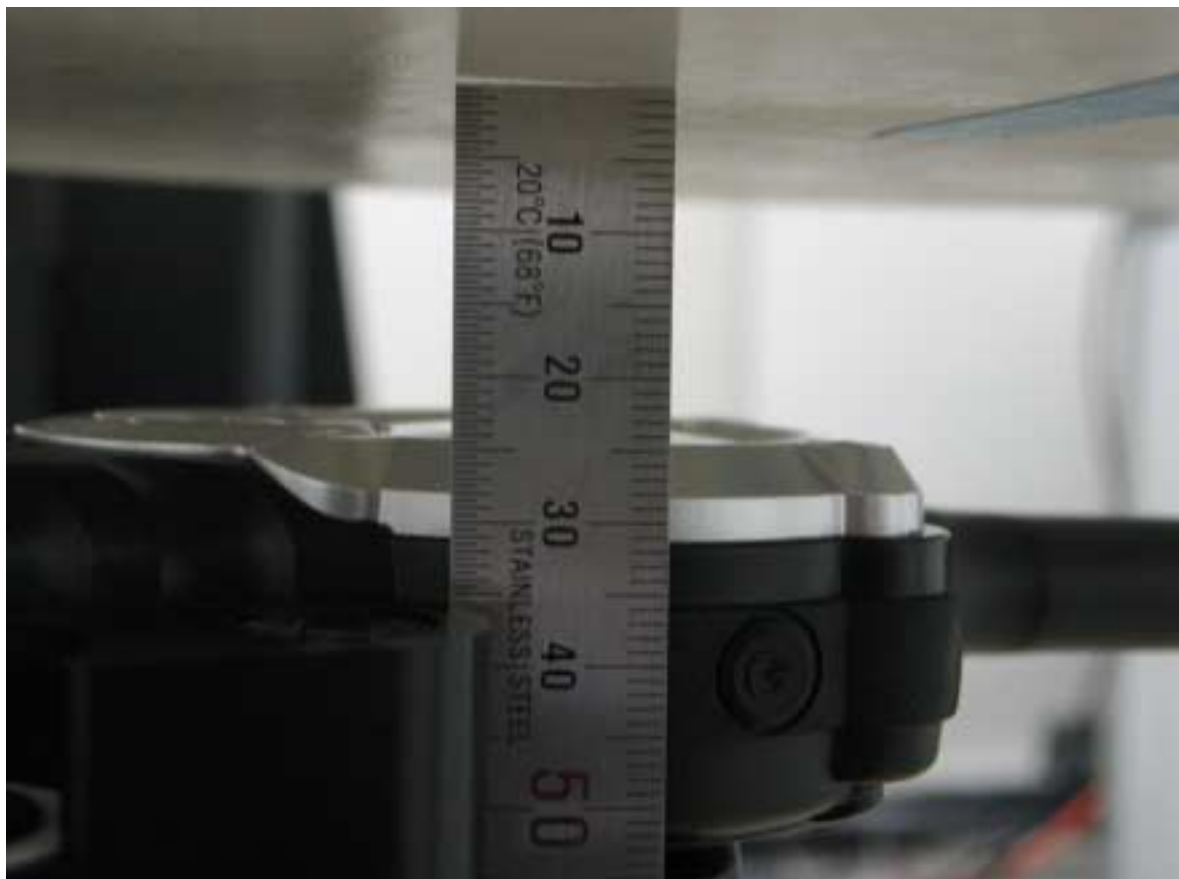


APPENDIX B – EUT TEST SETUP PHOTOGRAPHS











[Tissue Liquid Depth : 15cm]

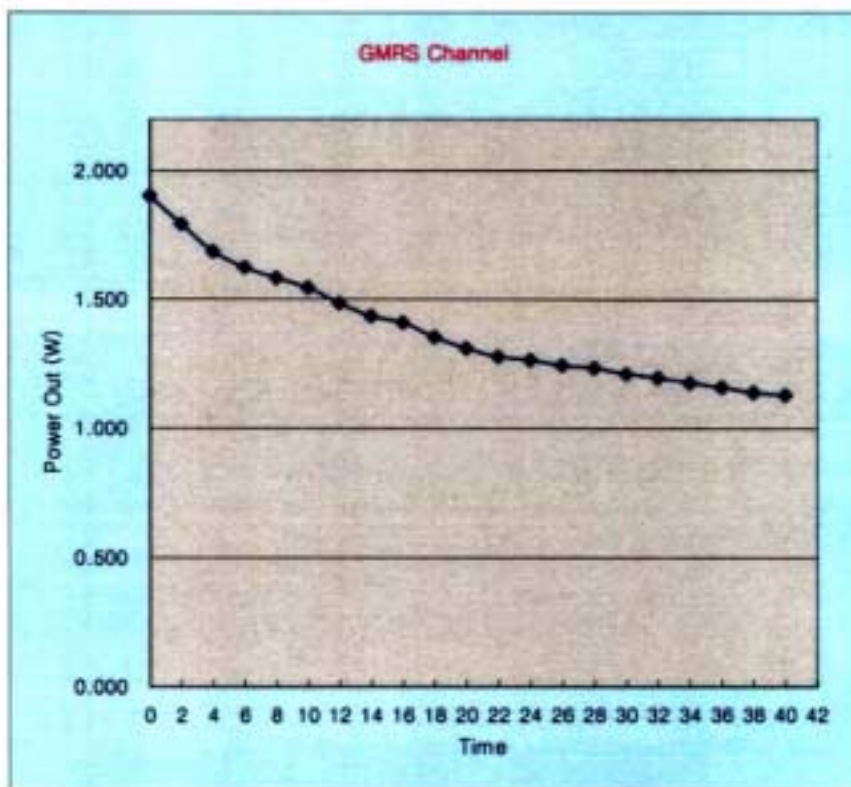


[Conducted Power Set-up Photographs]



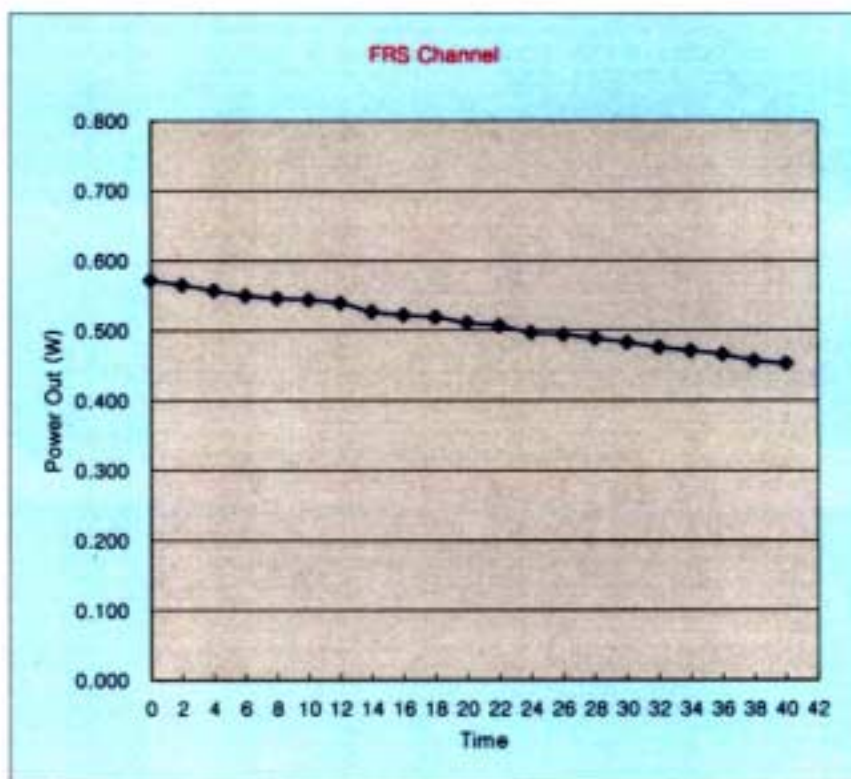
■ Battery Type: Rocket (Alkaline)

GMRS	
Time	Power Out
0	1.900
2	1.790
4	1.682
6	1.621
8	1.579
10	1.542
12	1.482
14	1.432
16	1.407
18	1.352
20	1.307
22	1.275
24	1.263
26	1.242
28	1.231
30	1.208
32	1.194
34	1.175
36	1.157
38	1.138
40	1.127



■ Battery Type: Rocket (Alkaline)

FRS	
Time	Power Out
0	0.571
2	0.564
4	0.556
6	0.549
8	0.545
10	0.543
12	0.538
14	0.526
16	0.521
18	0.518
20	0.510
22	0.506
24	0.496
26	0.493
28	0.488
30	0.482
32	0.475
34	0.470
36	0.465
38	0.456
40	0.452





Report No.: HCT-SAR02-0401
2002

FCC ID : OAJGMRS2200XTM

DATE : April 4,
