

Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.452 mW/g, SAR (10g): 0.283 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

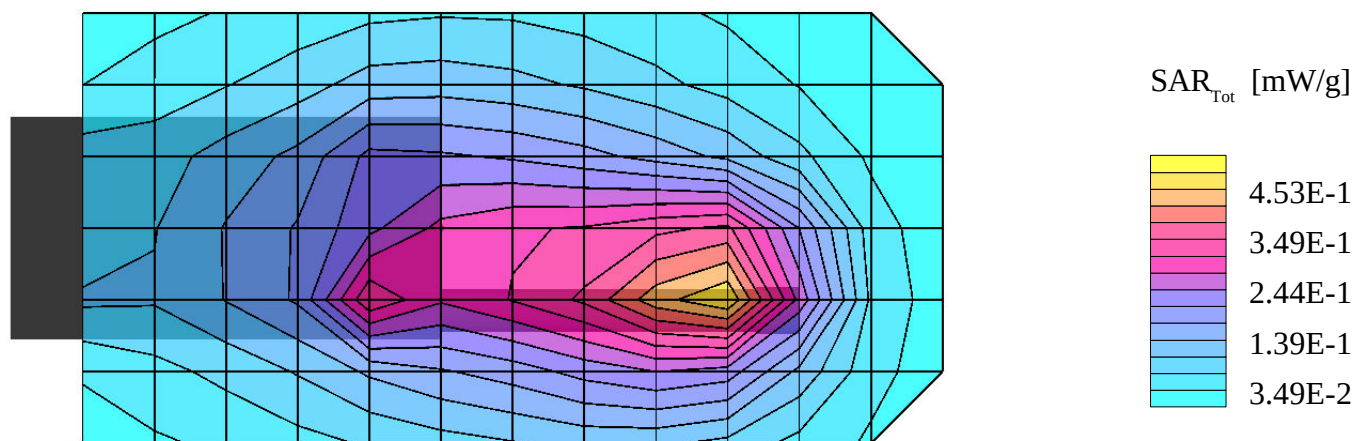
Model: VX-180V With Antenna ATV-6A

Unmodulated Carrier

Low Channel [146MHz]

Conducted Power: 4.7 Watts

Date Tested: Feb. 16, 2001



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Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75$ mho/m $\epsilon_r = 65.7$ $\rho = 1.00$ g/cm³

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.402 mW/g, SAR (10g): 0.297 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

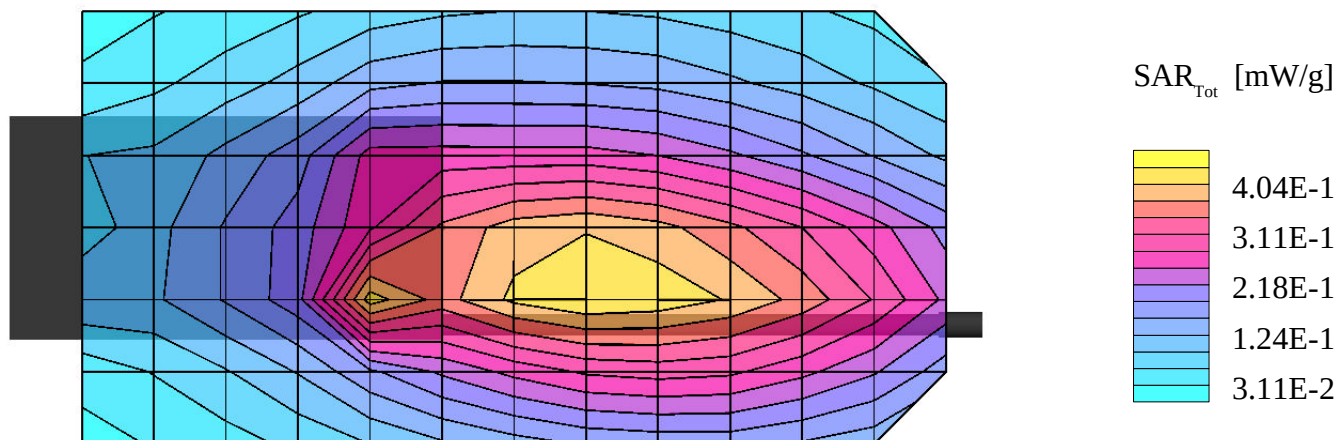
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

Low Channel [146MHz]

Conducted Power: 4.7 Watts

Date Tested: Feb. 16, 2001



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Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.310 mW/g, SAR (10g): 0.196 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

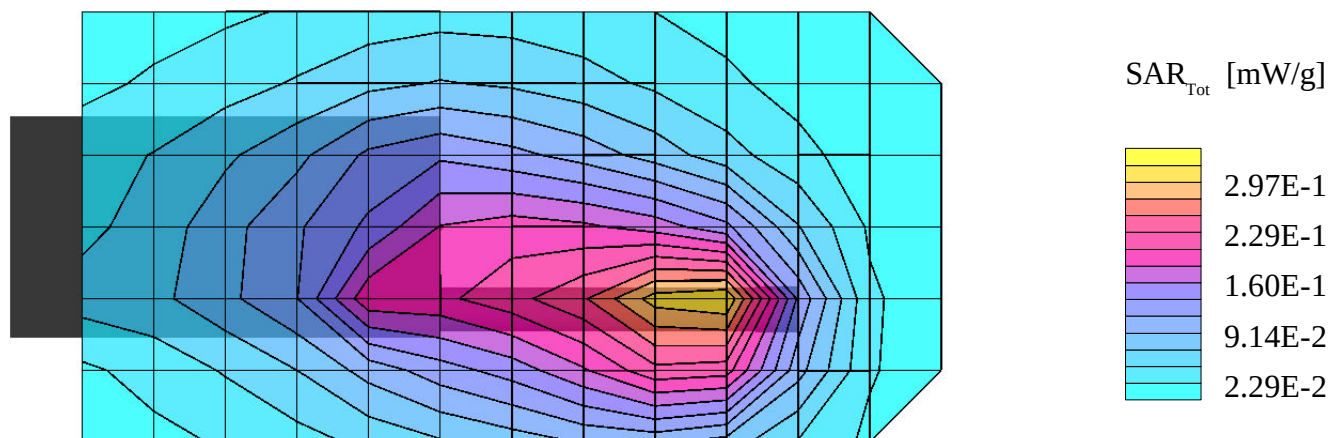
Model: VX-180V With Antenna ATV-6B

Unmodulated Carrier

Mid Channel [160MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.231 mW/g, SAR (10g): 0.171 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

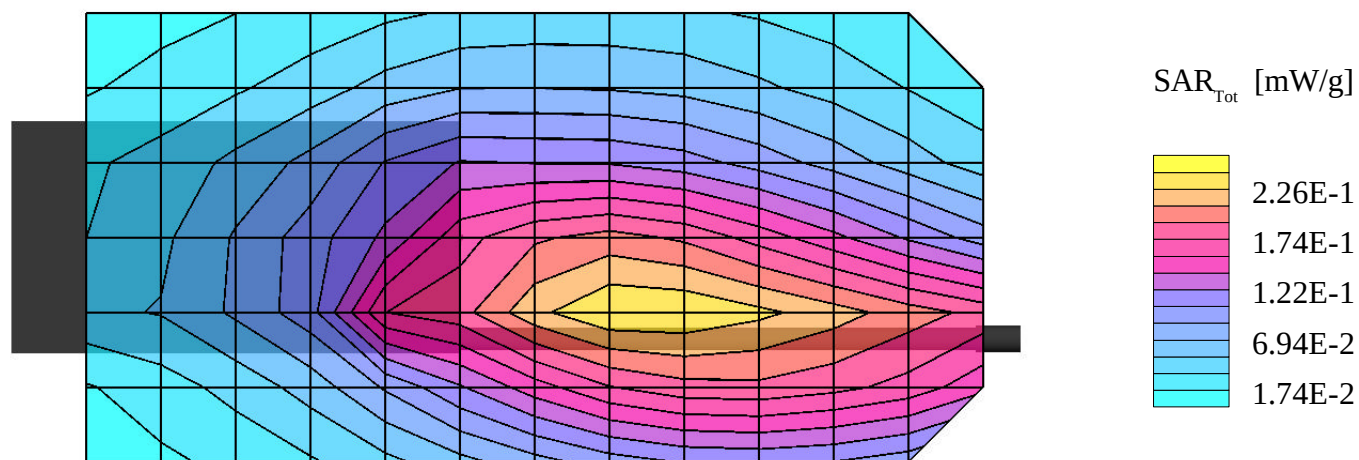
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

Mid Channel [160MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.246 mW/g, SAR (10g): 0.152 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

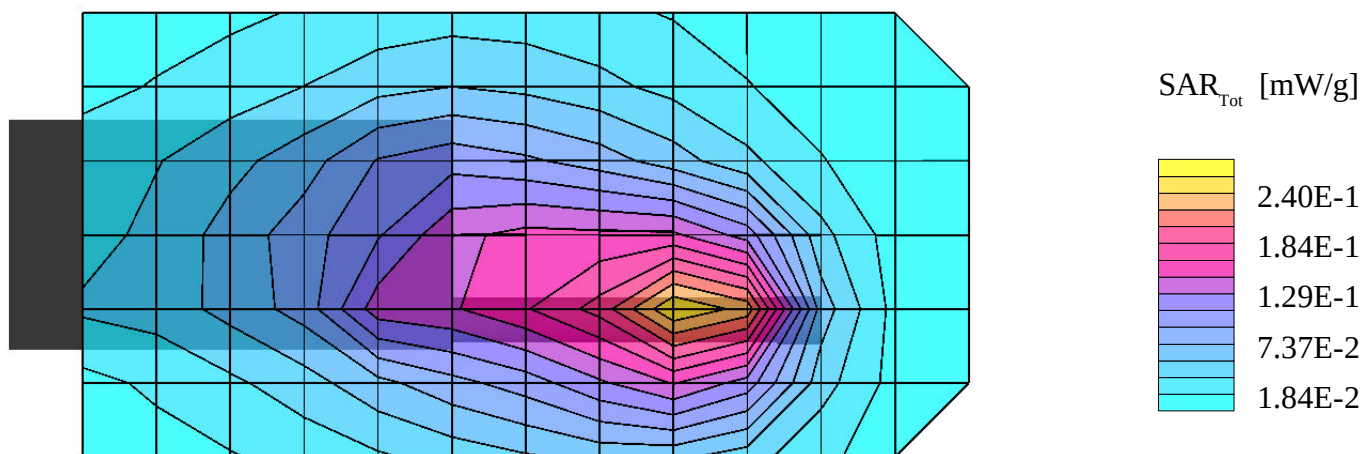
Model: VX-180V With Antenna ATV-6C

Unmodulated Carrier

High Channel [174MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



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Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.429 mW/g, SAR (10g): 0.317 mW/g

Body SAR with Leather Belt Case LCC-800/TT

Vertex Standard Co. Ltd.

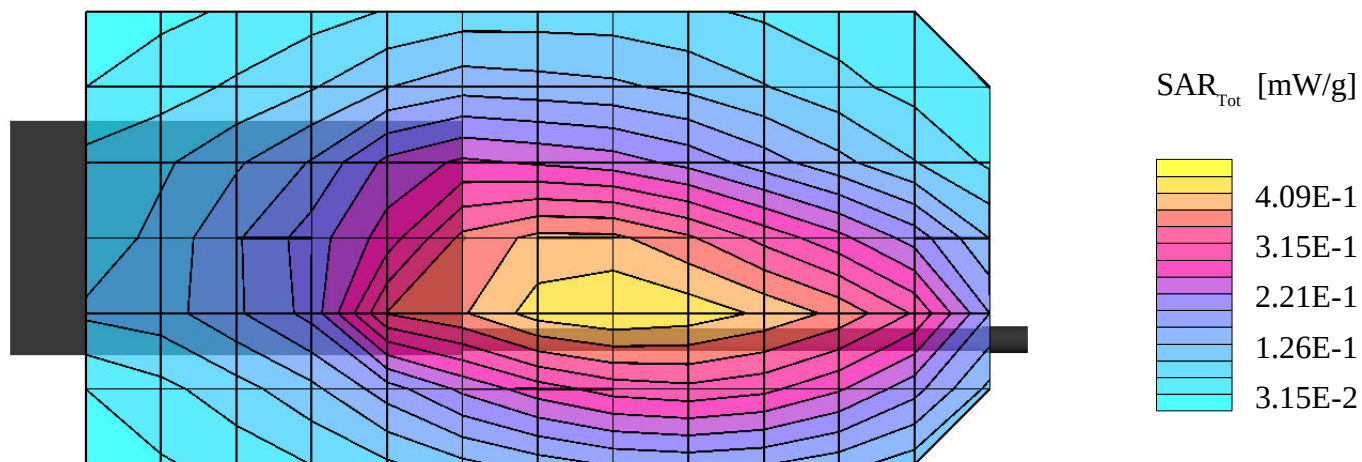
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

High Channel [174MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75$ mho/m $\epsilon_r = 65.7$ $\rho = 1.00$ g/cm³

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.312 mW/g, SAR (10g): 0.245 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

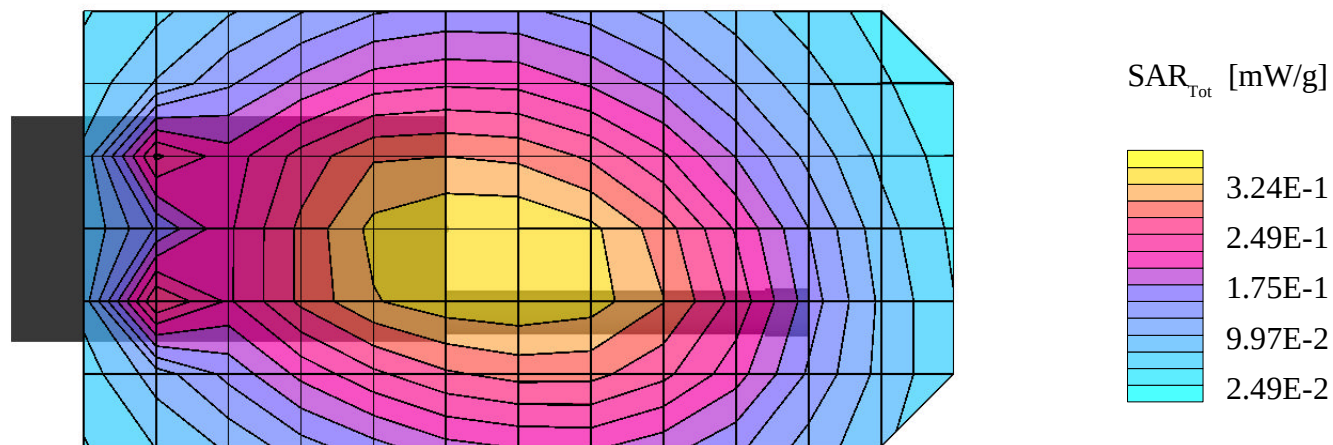
Model: VX-180V With Antenna ATV-6A

Unmodulated Carrier

Low Channel [147MHz]

Conducted Power: 4.7 Watts

Date Tested: Feb. 20, 2001



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Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75$ mho/m $\epsilon_r = 65.7$ $\rho = 1.00$ g/cm³

Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Cube 4x4x7

SAR (1g): 0.382 mW/g, SAR (10g): 0.301 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

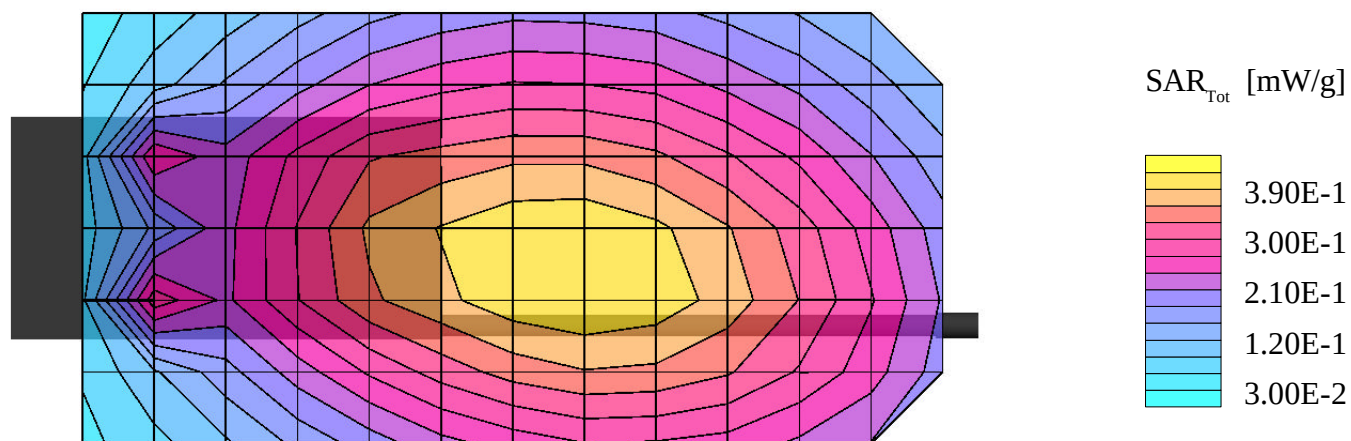
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

Low Channel [147MHz]

Conducted Power: 4.7 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.435 mW/g, SAR (10g): 0.340 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

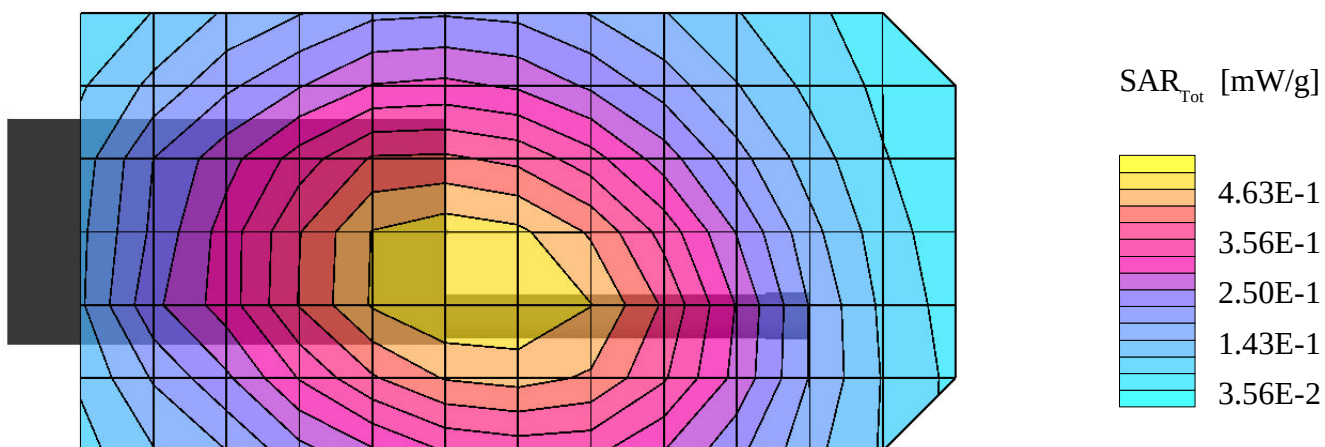
Model: VX-180V With Antenna ATV-6B

Unmodulated Carrier

Mid Channel [160MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.359 mW/g, SAR (10g): 0.280 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

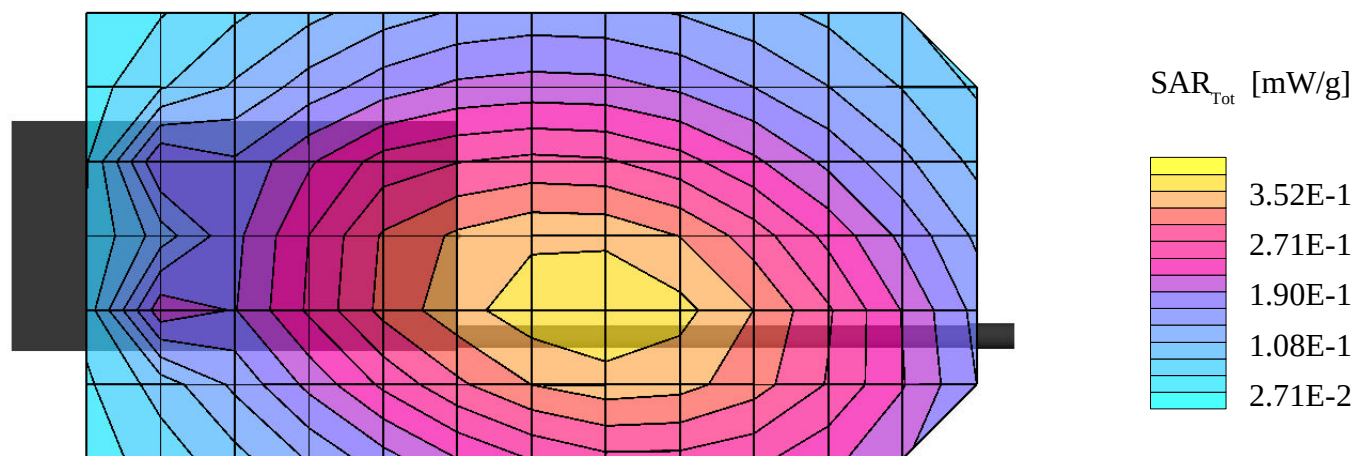
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

Mid Channel [160MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



Vertex Standard Co., Ltd. FCC ID: K66VX-160V

Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.102 mW/g, SAR (10g): 0.0800 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

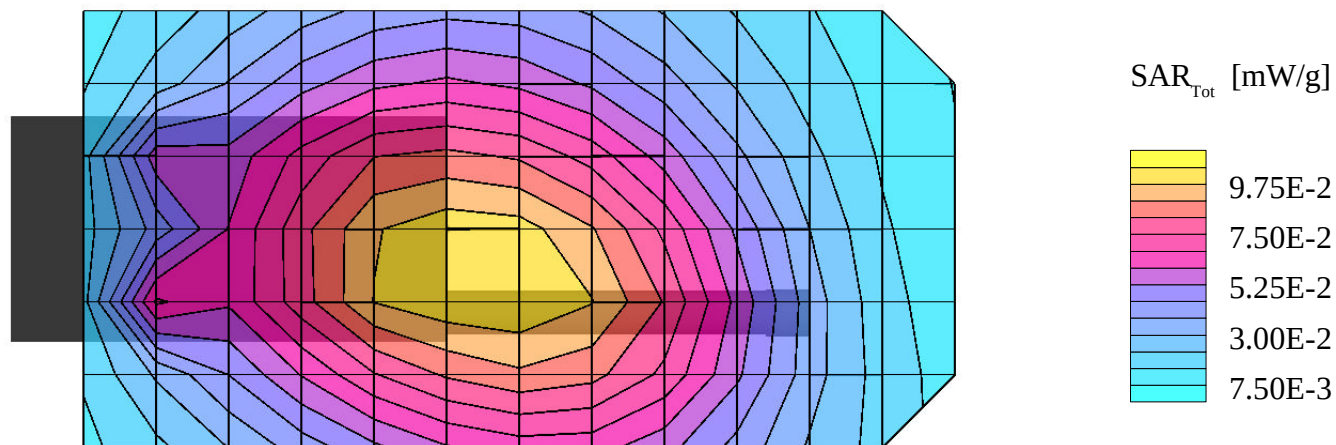
Model: VX-180V With Antenna ATV-6C

Unmodulated Carrier

High Channel [174MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001



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Generic Twin Phantom; Flat Section; Position: (270°,270°)

Probe: ET3DV6 - SN1387; ConvF(7.04,7.04,7.04); Crest factor: 1.0

150MHz Muscle: $s = 0.75 \text{ mho/m}$ $\epsilon_r = 65.7$ $\rho = 1.00 \text{ g/cm}^3$

Coarse: $Dx = 20.0$, $Dy = 20.0$, $Dz = 10.0$

Cube 4x4x7

SAR (1g): 0.427 mW/g, SAR (10g): 0.333 mW/g

Body SAR With Body Holster LCC-800S/TT

Vertex Standard Co. Ltd.

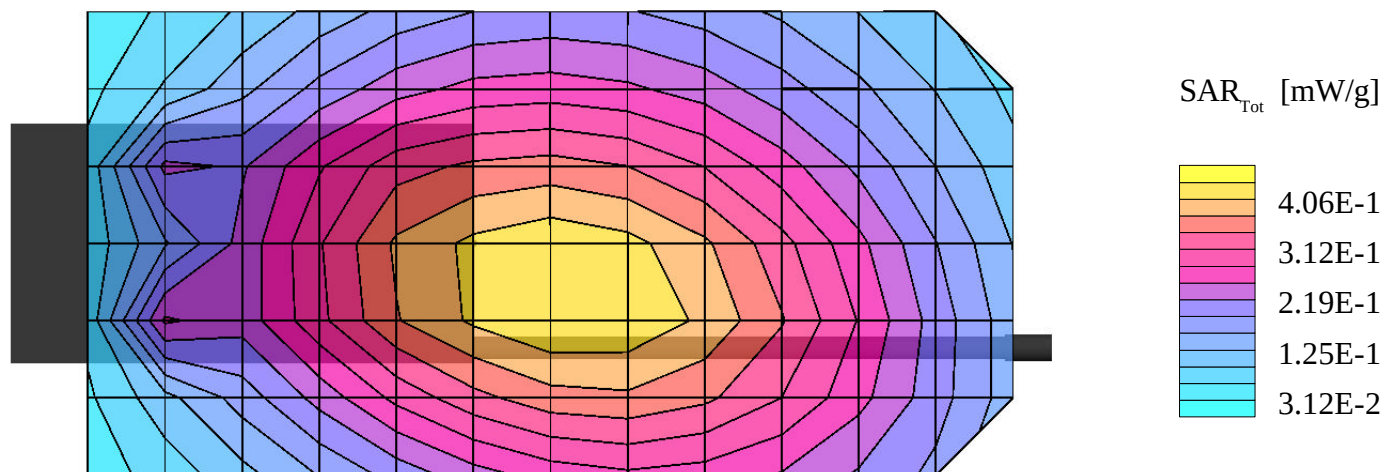
Model: VX-180V With Antenna ATV-6XL

Unmodulated Carrier

High Channel [174MHz]

Conducted Power: 4.3 Watts

Date Tested: Feb. 20, 2001

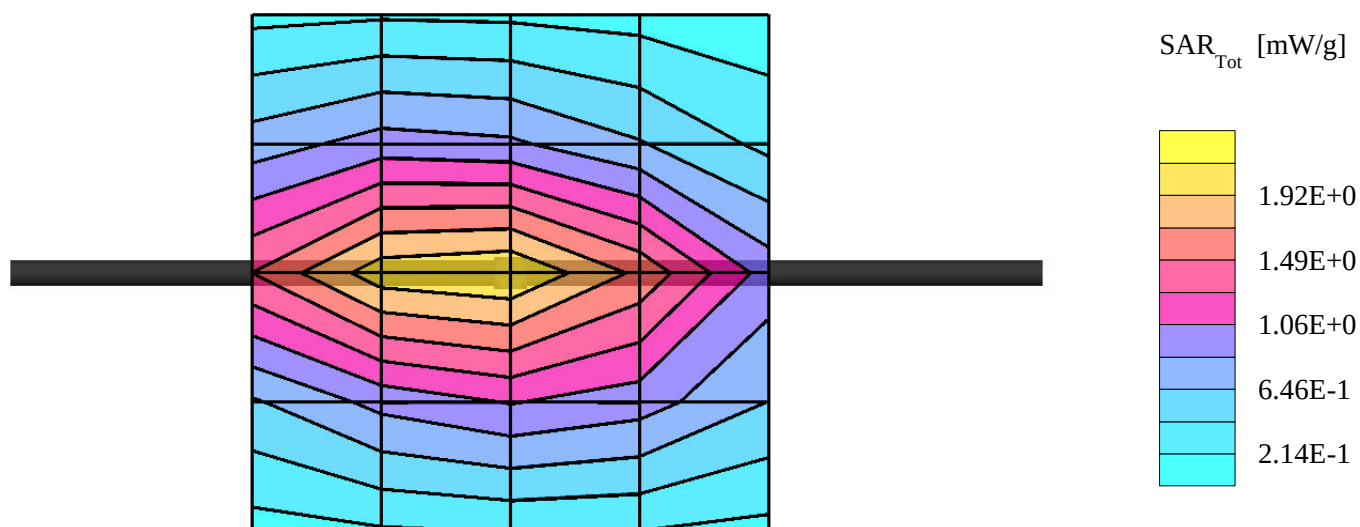


APPENDIX B - DIPOLE VALIDATION

Dipole 835 MHz

Generic Twin Phantom; Flat Section; Position: (90°,90°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Brain 835 MHz: $\sigma = 0.80$ mho/m $\epsilon_r = 44.2$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 2.01 mW/g, SAR (10g): 1.31 mW/g

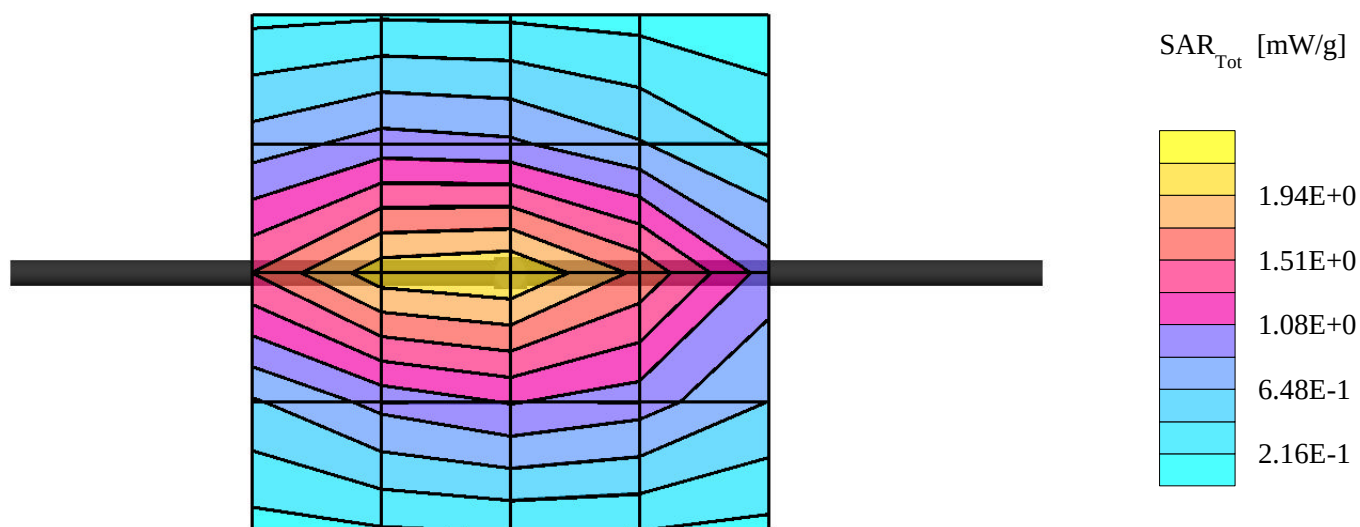
Validation Date: Feb. 16, 2001



Dipole 835 MHz

Generic Twin Phantom; Flat Section; Position: (90°,90°);
Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;
Brain 835 MHz: $\sigma = 0.80$ mho/m $\epsilon_r = 44.2$ $\rho = 1.00$ g/cm³
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Cube 5x5x7
SAR (1g): 2.03 mW/g, SAR (10g): 1.34 mW/g

Validation Date: Feb. 20, 2001



Validation Dipole D835V2 SN:411, d = 15mm

Frequency: 835 MHz; Antenna Input Power: 250 [mW]
Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0
Probe: ET3DV5 - SN1342/D4E3; ConvF(5.75,5.75,5.75); Brain 835 MHz: $\sigma = 0.80$ mho/m $\epsilon_r = 44.2$ $\rho = 1.00$ g/cm³
Cubes (2): Peak: 3.07 mW/g ± 0.05 dB, SAR (1g): 2.06 mW/g ± 0.05 dB, SAR (10g): 1.38 mW/g ± 0.05 dB, (Worst-case extrapolation)
Penetration depth: 13.6 (12.7, 14.8) [mm]
Powerdrift: -0.00 dB

