



	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

APPENDIX A - SAR MEASUREMENT DATA

Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/08/2010

Face-held SAR - 409.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 24.2°C; Fluid Temp: 22.9°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 409 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 409 \text{ MHz}$; $\sigma = 0.839 \text{ mho/m}$; $\epsilon_r = 43.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.681 mW/g

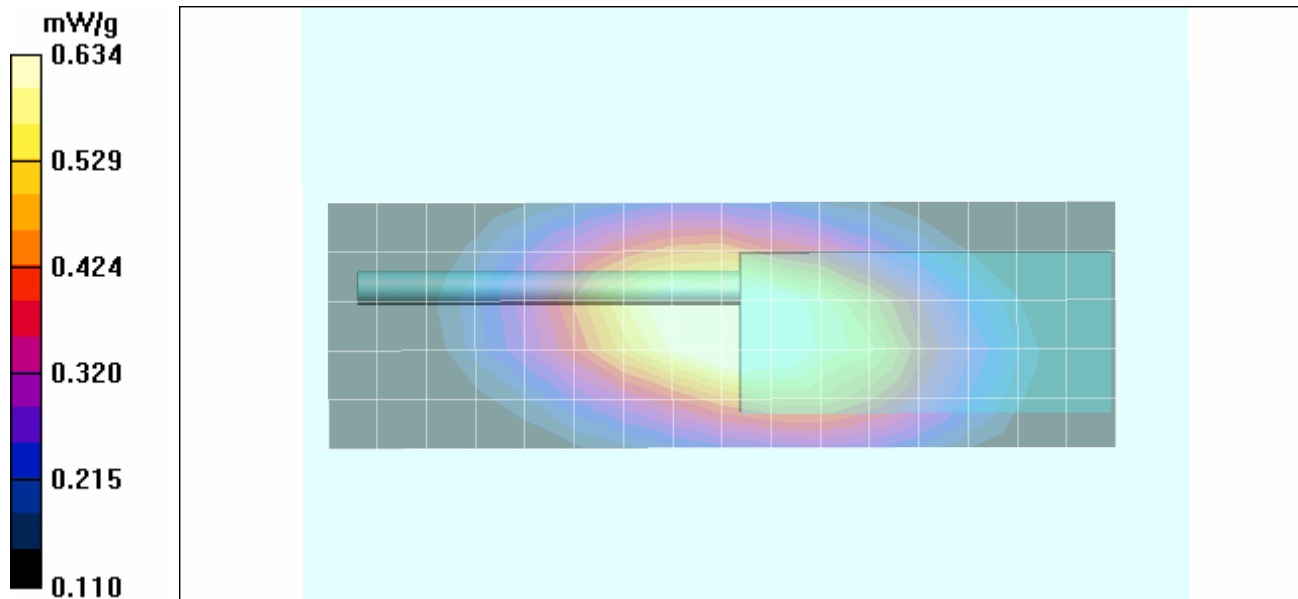
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 29.4 V/m; Power Drift = -0.497 dB

Peak SAR (extrapolated) = 0.927 W/kg

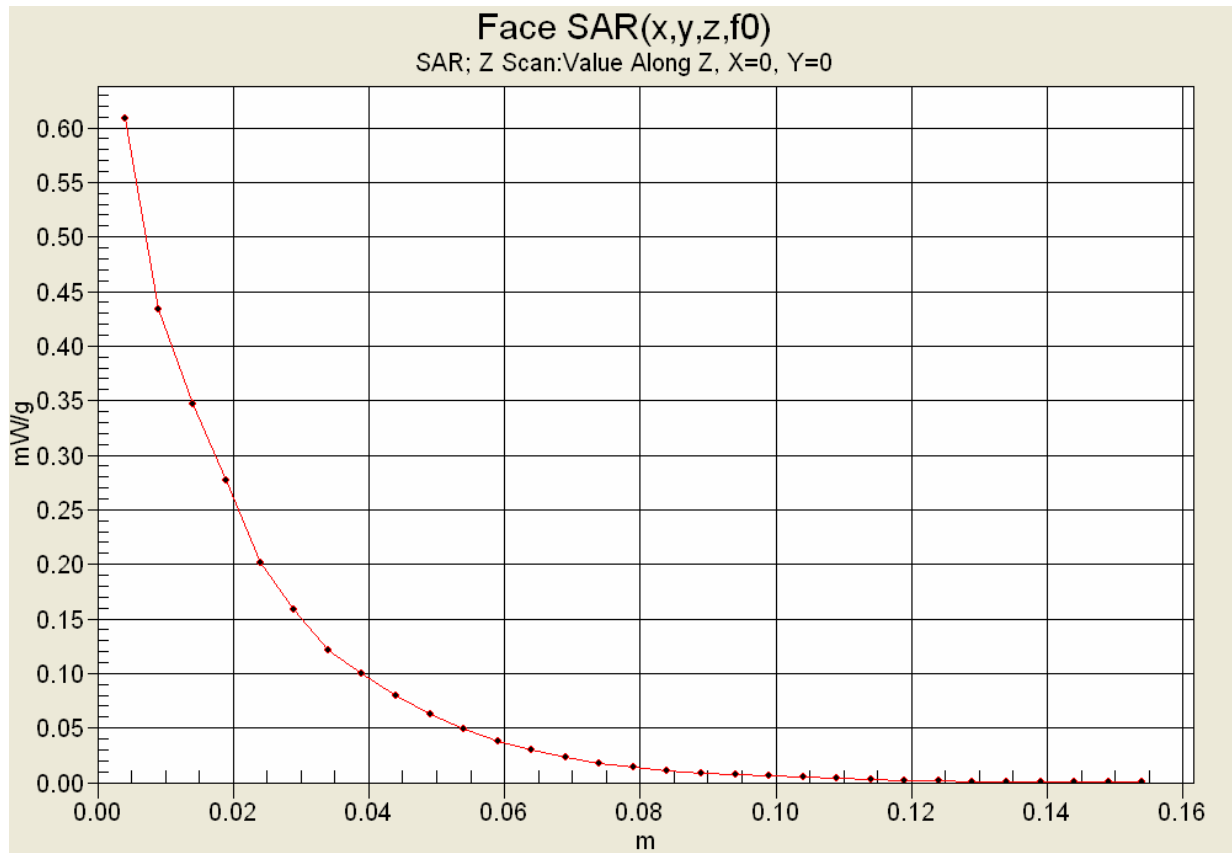
SAR(1 g) = 0.604 mW/g; SAR(10 g) = 0.447 mW/g



Maximum value of SAR (measured) = 0.634 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/08/2010

Face-held SAR - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 24.2°C; Fluid Temp: 22.9°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 424.25$ MHz; $\sigma = 0.85$ mho/m; $\epsilon_r = 43.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.463 mW/g

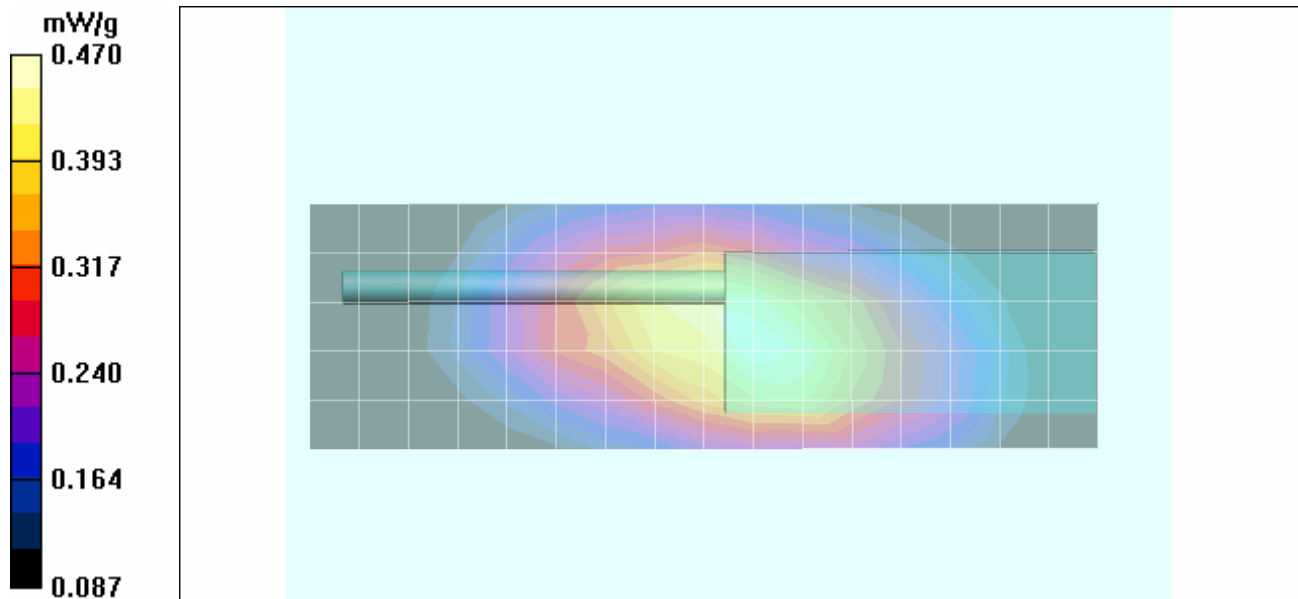
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 23.3 V/m; Power Drift = 0.256 dB



Peak SAR (extrapolated) = 0.626 W/kg

SAR(1 g) = 0.441 mW/g; SAR(10 g) = 0.335 mW/g

Maximum value of SAR (measured) = 0.470 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/08/2010

Face-held SAR - 439.5 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 24.2°C; Fluid Temp: 22.9°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 439.5 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.544 mW/g

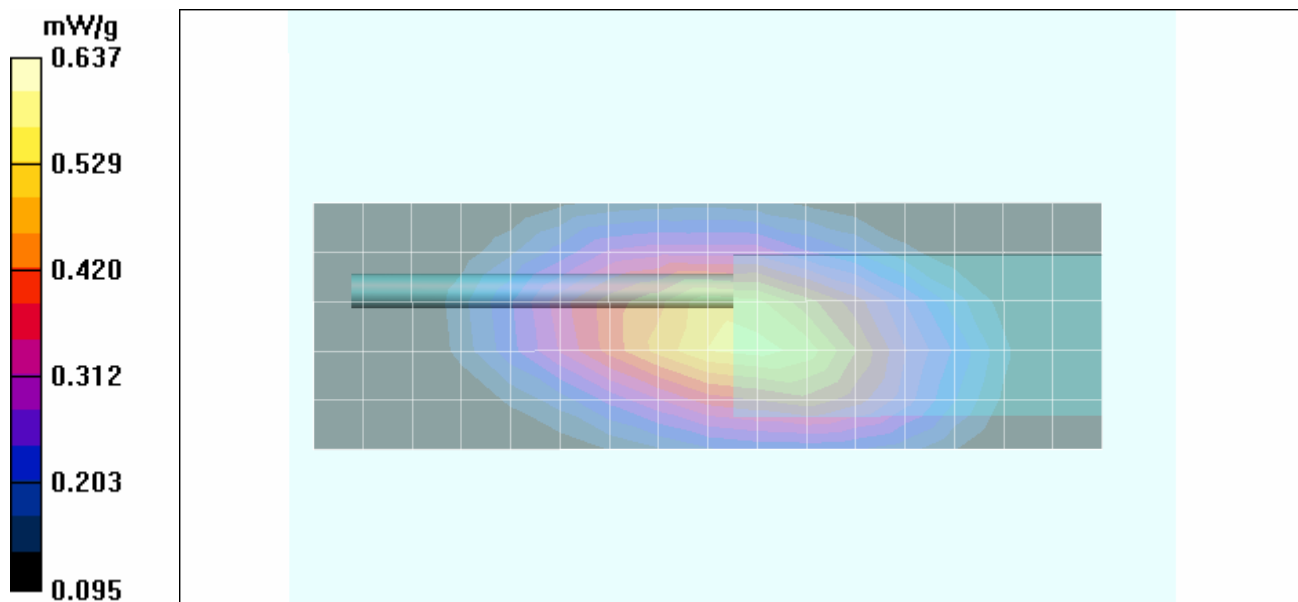
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 26.0 V/m; Power Drift = -0.067 dB



Peak SAR (extrapolated) = 0.869 W/kg

SAR(1 g) = 0.599 mW/g; SAR(10 g) = 0.437 mW/g

Maximum value of SAR (measured) = 0.637 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/08/2010

Face-held SAR - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 24.2°C; Fluid Temp: 22.9°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.874 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.662 mW/g

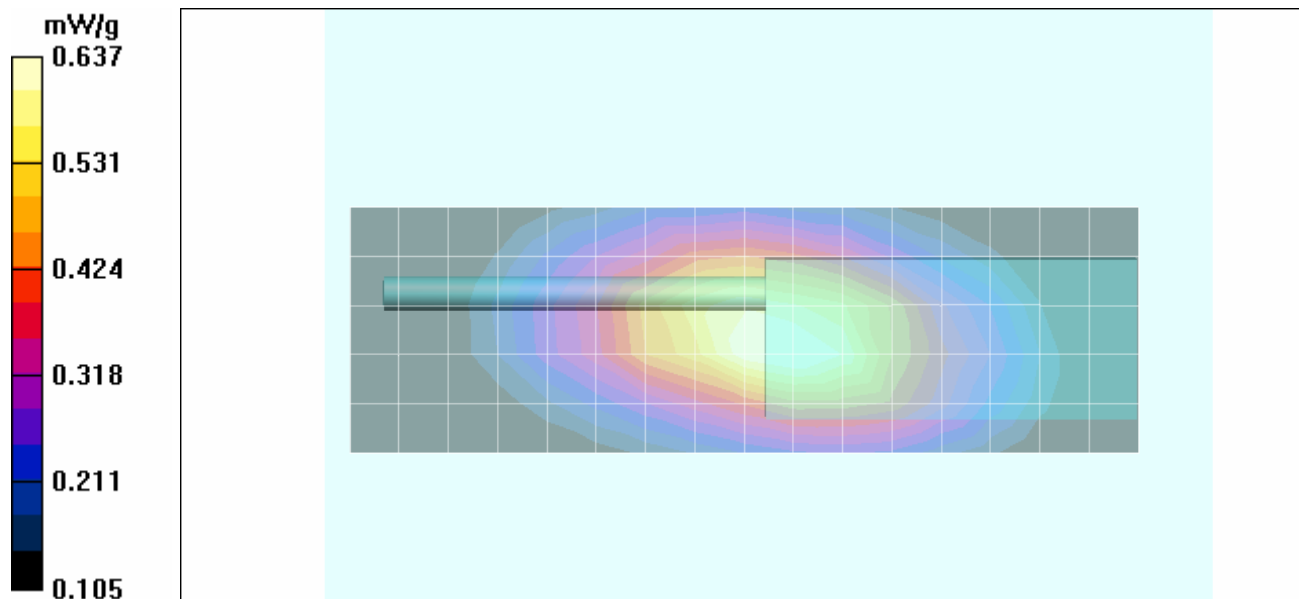
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 28.8 V/m; Power Drift = -0.499 dB



Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.596 mW/g; SAR(10 g) = 0.436 mW/g

Maximum value of SAR (measured) = 0.637 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/08/2010

Face-held SAR - 470.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 24.2°C; Fluid Temp: 22.9°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 470 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Face-held SAR - 2.5 cm Spacing from Front of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.540 mW/g

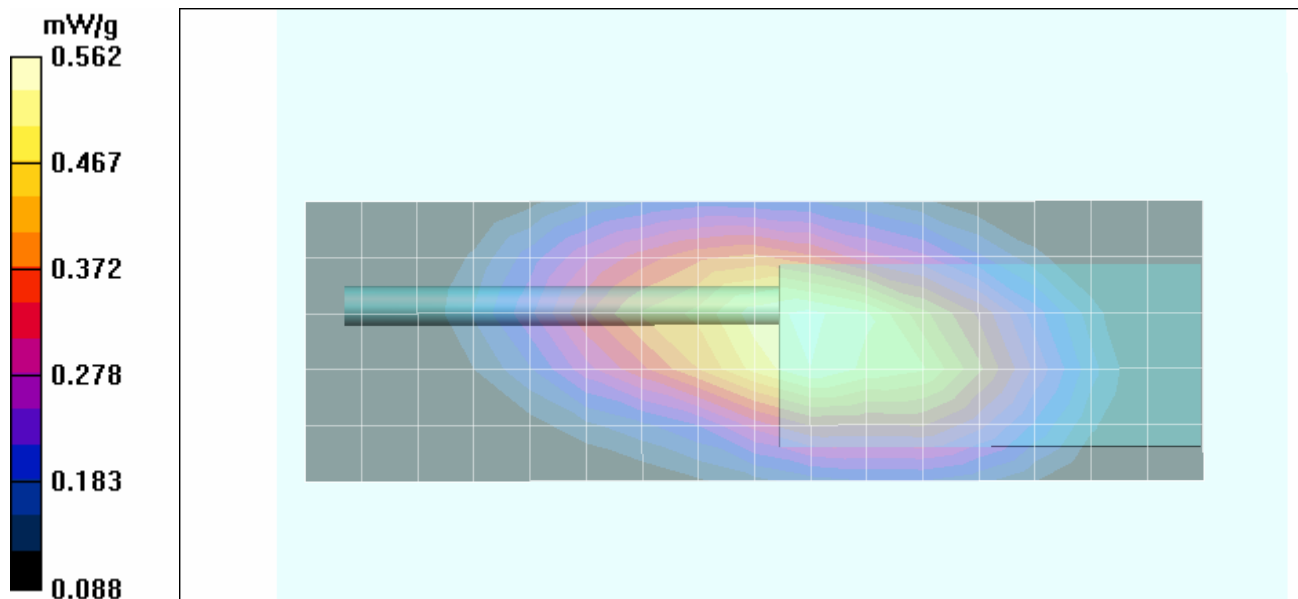
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 24.3 V/m; Power Drift = 0.306 dB



Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.526 mW/g; SAR(10 g) = 0.387 mW/g

Maximum value of SAR (measured) = 0.562 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/04/2010

Body-worn SAR - 409.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Body-worn Accessory: Nylon Case with Metal Belt-Clip; Audio Accessory: Speaker-Microphone

Ambient Temp: 23.8°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 409 MHz; Duty Cycle: 1:4

Medium: M450 Medium parameters used (interpolated): $f = 409 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 58.4$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-worn SAR - 1.5 cm Nylon Case & Belt-Clip Spacing from Back Side of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.709 mW/g

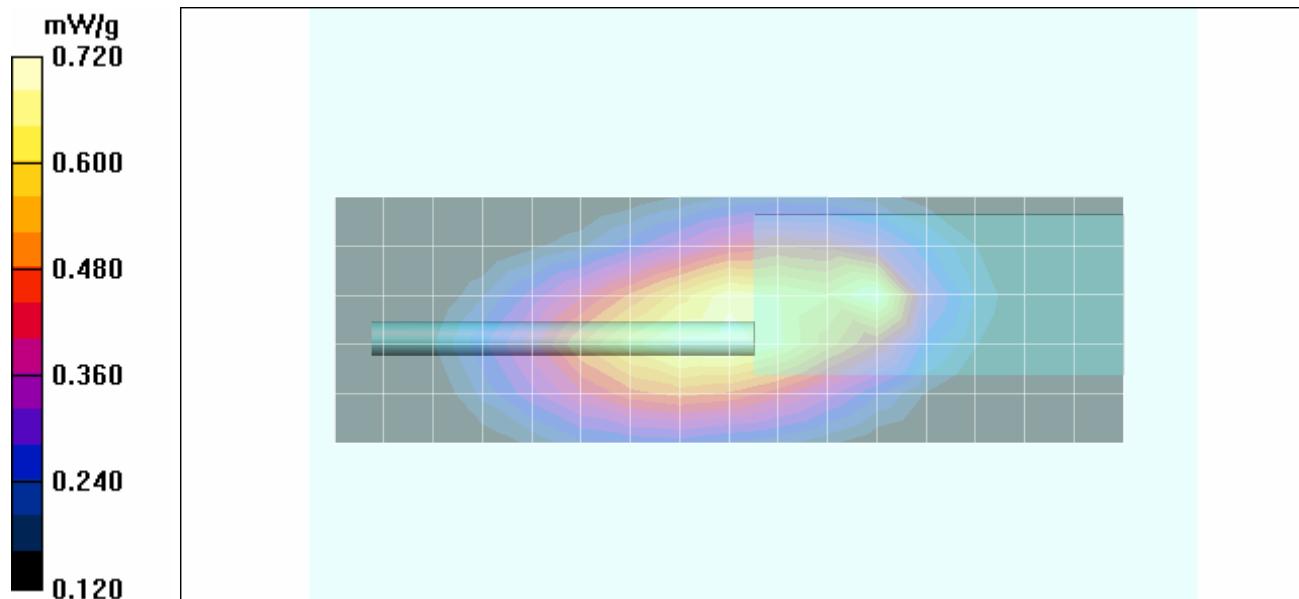
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 27.4 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 1.05 W/kg

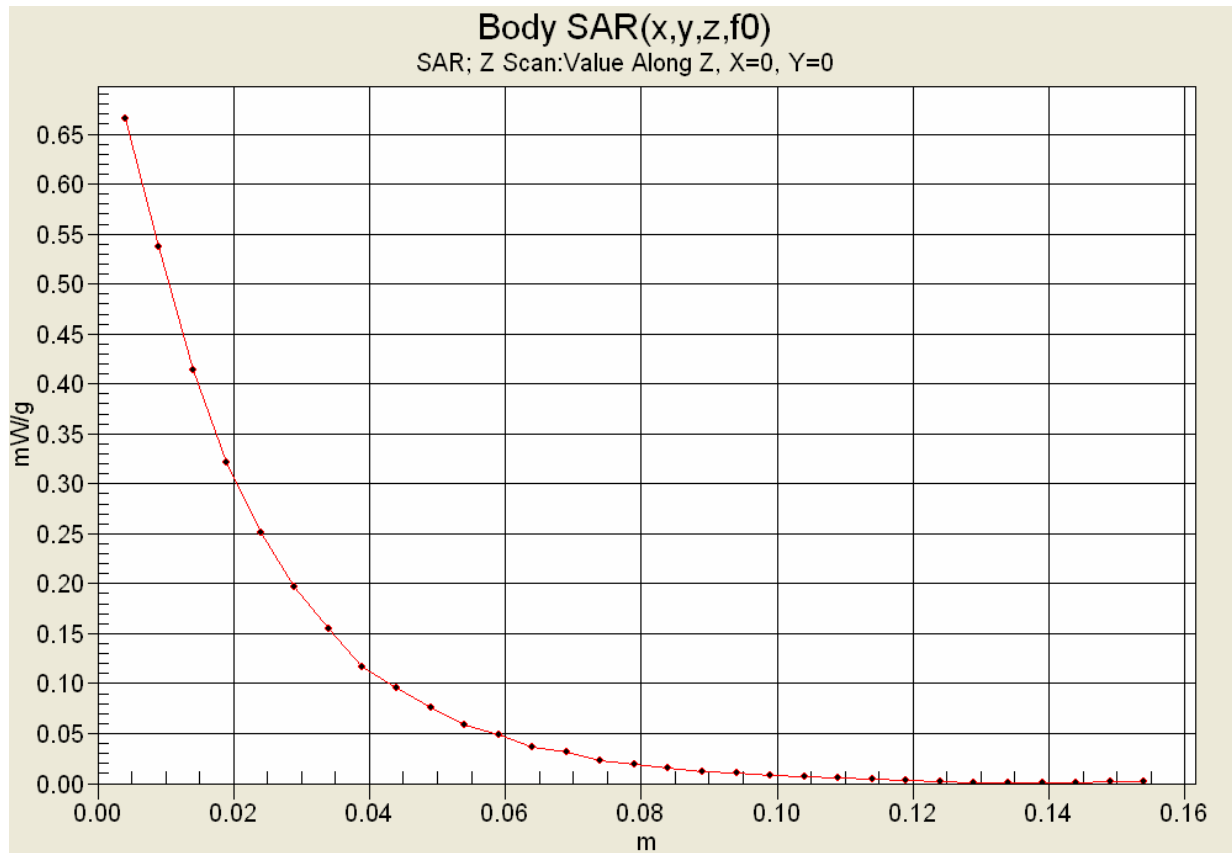
SAR(1 g) = 0.683 mW/g; SAR(10 g) = 0.501 mW/g



Maximum value of SAR (measured) = 0.720 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/04/2010

Body-worn SAR - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Body-worn Accessory: Nylon Case with Metal Belt-Clip; Audio Accessory: Speaker-Microphone

Ambient Temp: 23.8°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: M450 Medium parameters used (interpolated): $f = 424.25 \text{ MHz}$; $\sigma = 0.909 \text{ mho/m}$; $\epsilon_r = 58.1$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-worn SAR - 1.5 cm Nylon Case & Belt-Clip Spacing from Back Side of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.740 mW/g

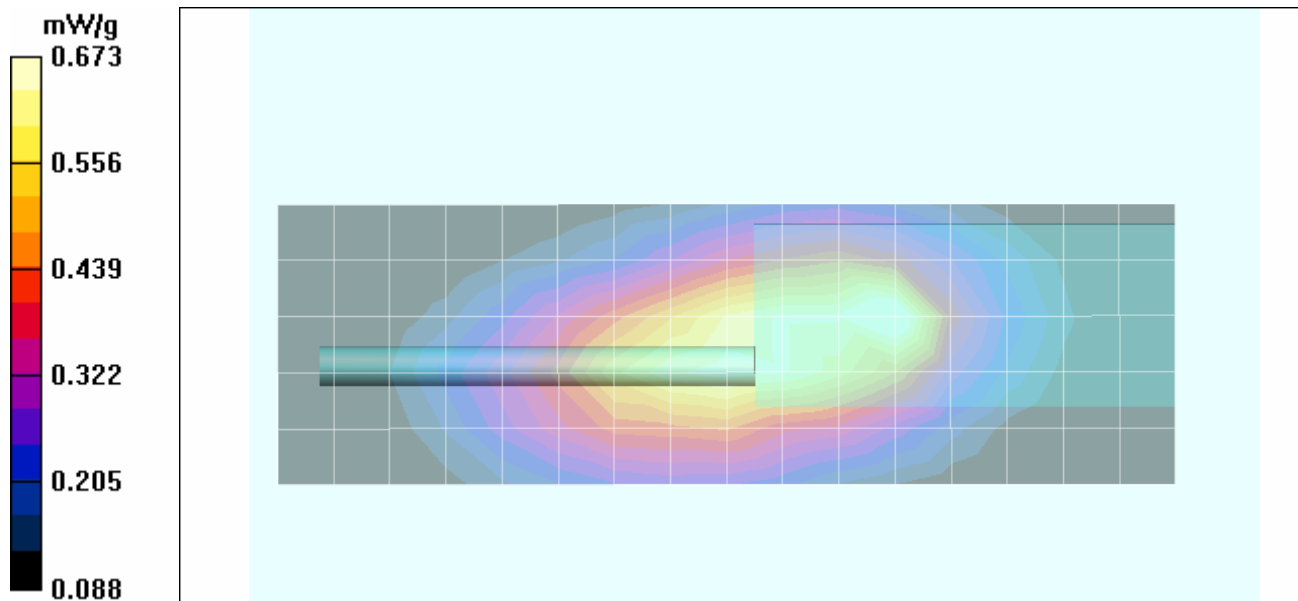
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 26.3 V/m; Power Drift = 0.007 dB



Peak SAR (extrapolated) = 0.958 W/kg

SAR(1 g) = 0.630 mW/g; SAR(10 g) = 0.458 mW/g

Maximum value of SAR (measured) = 0.673 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/04/2010

Body-worn SAR - 439.5 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Body-worn Accessory: Nylon Case with Metal Belt-Clip; Audio Accessory: Speaker-Microphone

Ambient Temp: 23.8°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 439.5 MHz; Duty Cycle: 1:4

Medium: M450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.93 \text{ mho/m}$; $\epsilon_r = 57.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fibreglas Planar; Serial: 03-01
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-worn SAR - 1.5 cm Nylon Case & Belt-Clip Spacing from Back Side of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.648 mW/g

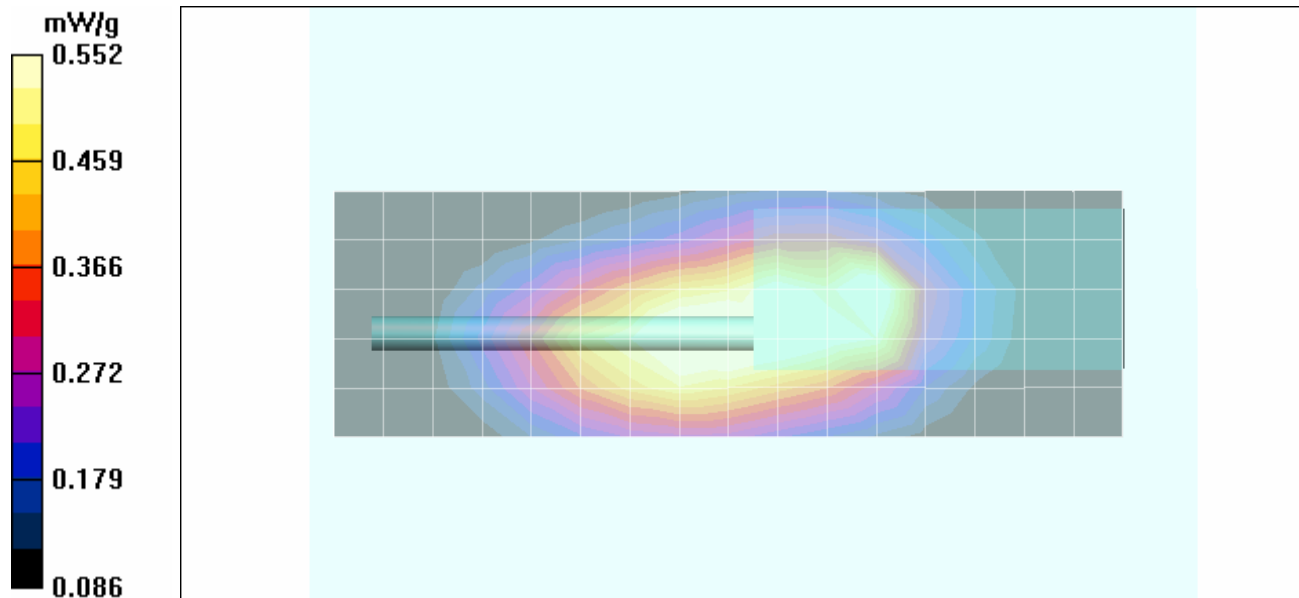
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 22.9 V/m; Power Drift = -0.167 dB



Peak SAR (extrapolated) = 0.784 W/kg

SAR(1 g) = 0.521 mW/g; SAR(10 g) = 0.382 mW/g

Maximum value of SAR (measured) = 0.552 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/04/2010

Body-worn SAR - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Body-worn Accessory: Nylon Case with Metal Belt-Clip; Audio Accessory: Speaker-Microphone

Ambient Temp: 23.8°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: M450 Medium parameters used (interpolated): $f = 454.75$ MHz; $\sigma = 0.918$ mho/m; $\epsilon_r = 57.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fibreglas Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-worn SAR - 1.5 cm Nylon Case & Belt-Clip Spacing from Back Side of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.627 mW/g

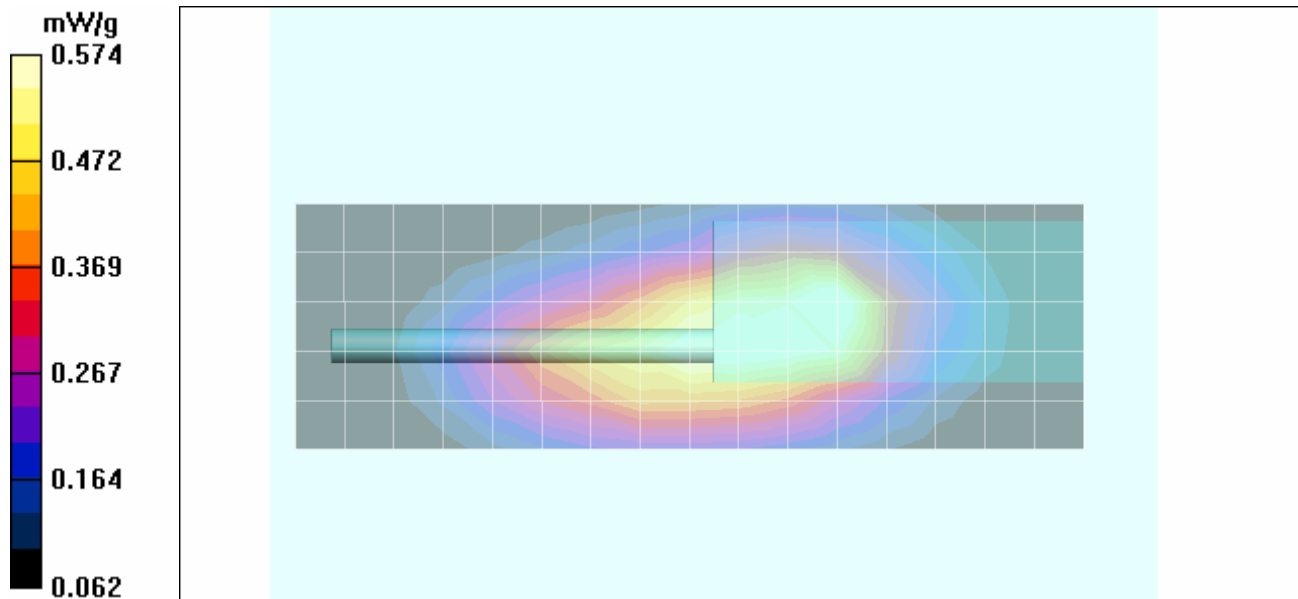
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 26.9 V/m; Power Drift = -0.393 dB



Peak SAR (extrapolated) = 0.897 W/kg

SAR(1 g) = 0.546 mW/g; SAR(10 g) = 0.377 mW/g

Maximum value of SAR (measured) = 0.574 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/04/2010

Body-worn SAR - 470.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Body-worn Accessory: Nylon Case with Metal Belt-Clip; Audio Accessory: Speaker-Microphone

Ambient Temp: 23.8°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 470 MHz; Duty Cycle: 1:4

Medium: M450 Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 57.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body-worn SAR - 1.5 cm Nylon Case & Belt-Clip Spacing from Back Side of DUT to Planar Phantom

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.569 mW/g

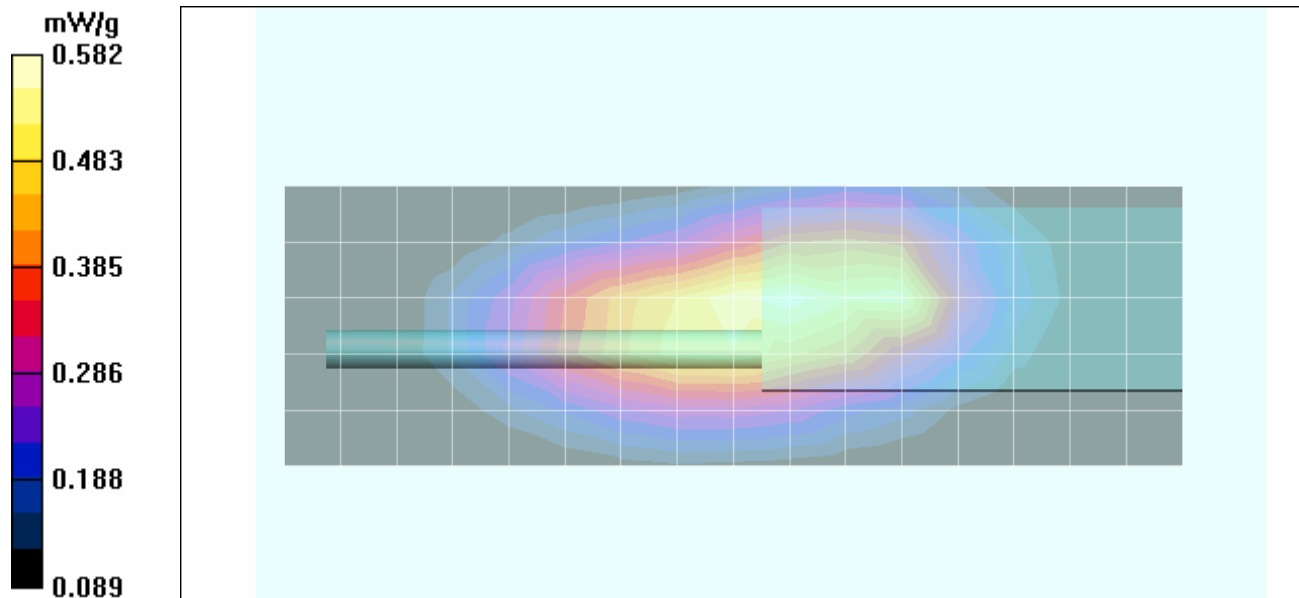
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 25.3 V/m; Power Drift = -0.425 dB



Peak SAR (extrapolated) = 0.807 W/kg

SAR(1 g) = 0.553 mW/g; SAR(10 g) = 0.402 mW/g

Maximum value of SAR (measured) = 0.582 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Cheek-Touch Position - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 424.25$ MHz; $\sigma = 0.834$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Cheek-Touch Position

Area Scan (6x17x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.998 mW/g

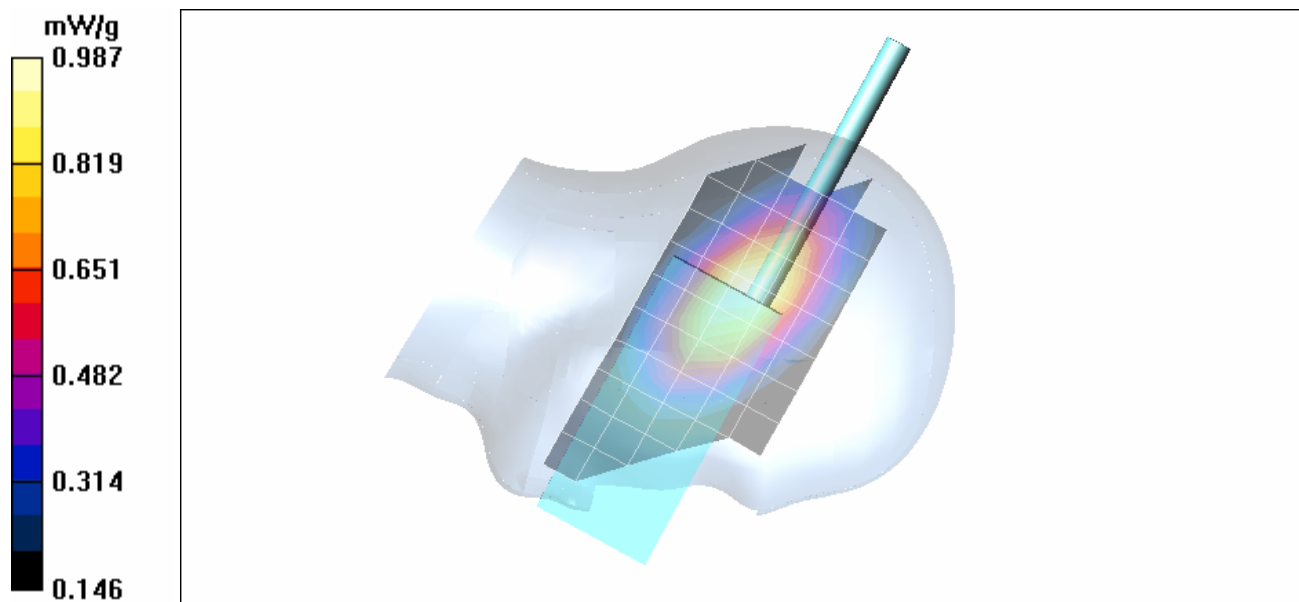
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 34.2 V/m; Power Drift = -0.494 dB



Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.652 mW/g

Maximum value of SAR (measured) = 0.987 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 424.25$ MHz; $\sigma = 0.834$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (6x17x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 1.09 mW/g

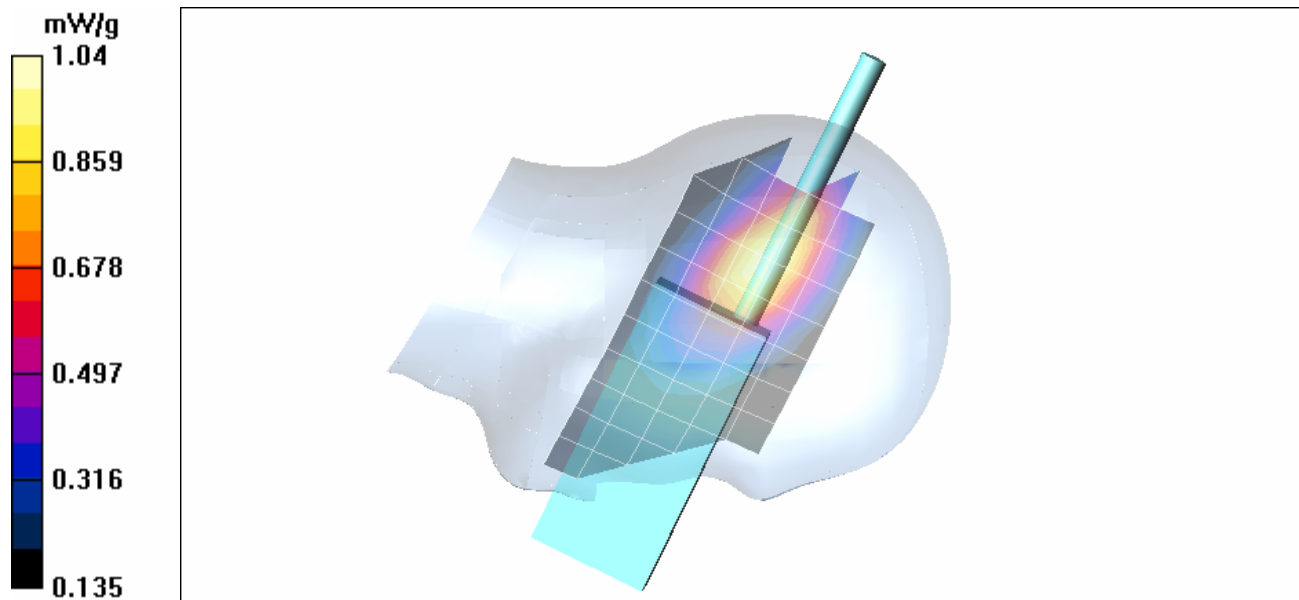
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 27.7 V/m; Power Drift = 0.114 dB



Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.963 mW/g; SAR(10 g) = 0.683 mW/g

Maximum value of SAR (measured) = 1.04 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Cheek-Touch Position - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 424.25 \text{ MHz}$; $\sigma = 0.834 \text{ mho/m}$; $\epsilon_r = 44.7$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Cheek-Touch Position

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.795 mW/g

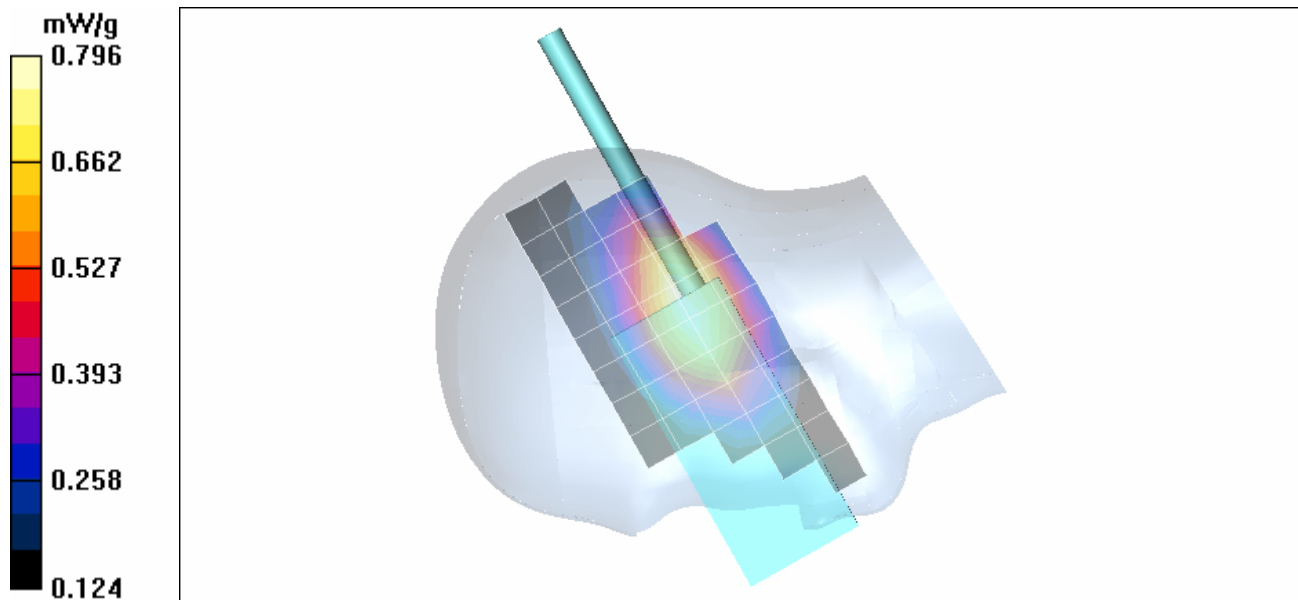
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 29.4 V/m; Power Drift = 0.205 dB



Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.741 mW/g; SAR(10 g) = 0.550 mW/g

Maximum value of SAR (measured) = 0.796 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Ear-Tilt Position - 424.25 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 424.25 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 424.25$ MHz; $\sigma = 0.834$ mho/m; $\epsilon_r = 44.7$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Ear-Tilt Position

Area Scan (6x17x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (measured) = 0.919 mW/g

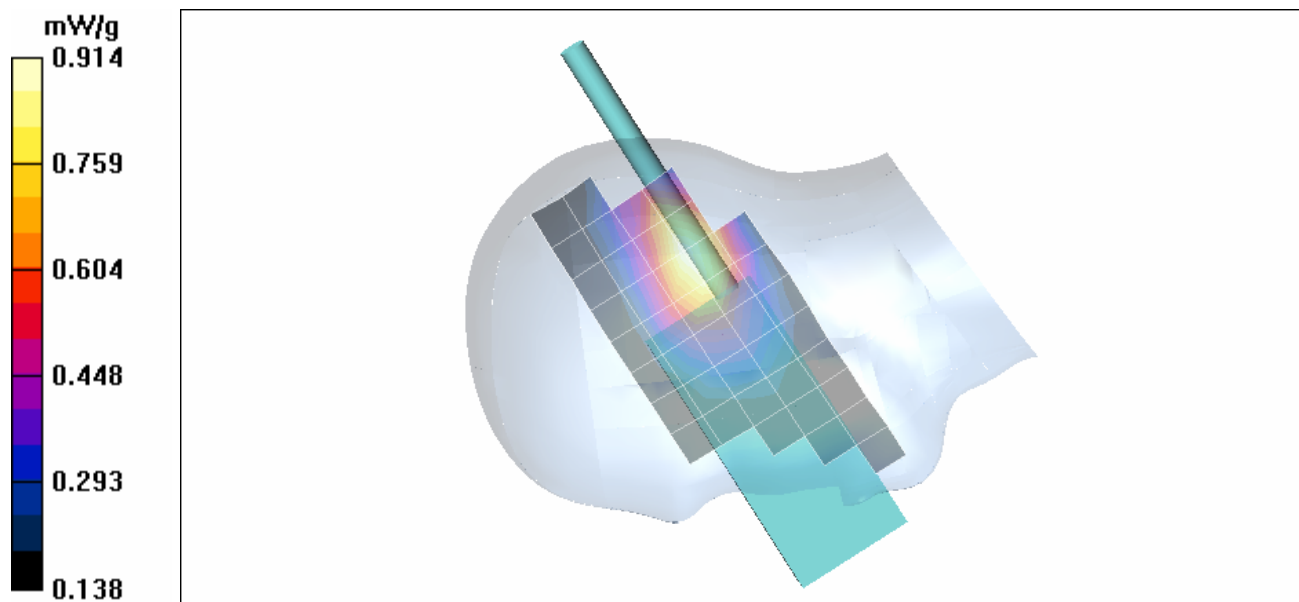
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm


Reference Value = 28.6 V/m; Power Drift = -0.102 dB



Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.872 mW/g; SAR(10 g) = 0.617 mW/g

Maximum value of SAR (measured) = 0.914 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Cheek-Touch Position - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Cheek-Touch Position

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 1.04 mW/g

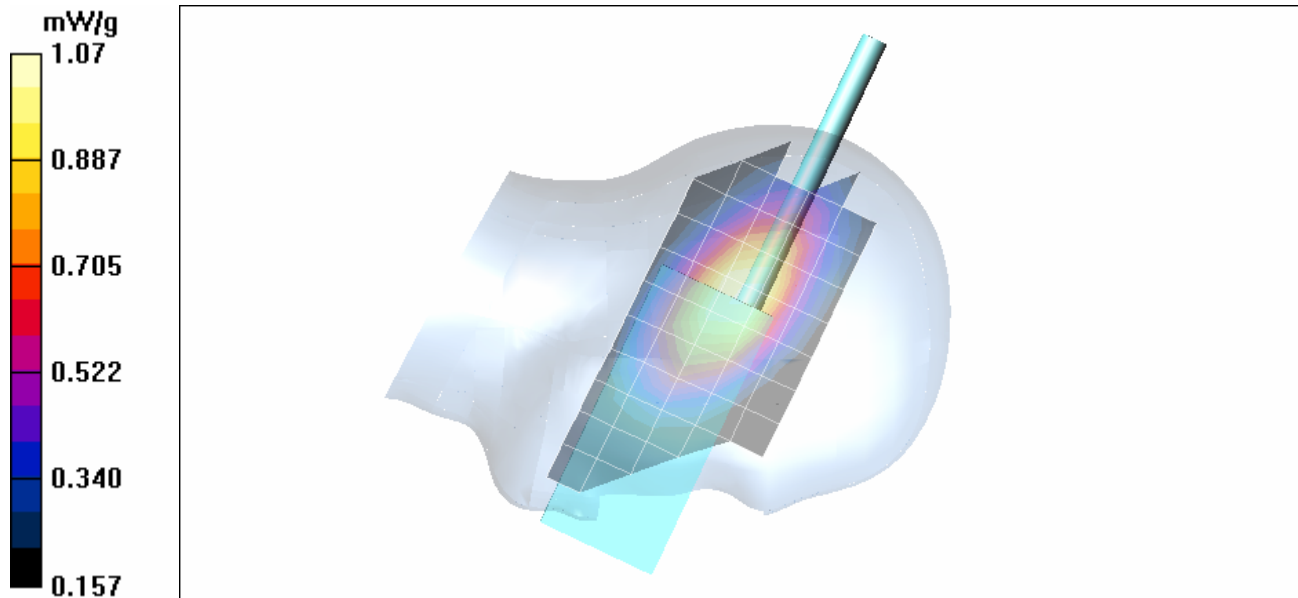
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 33.8 V/m; Power Drift = -0.114 dB



Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.997 mW/g; SAR(10 g) = 0.717 mW/g

Maximum value of SAR (measured) = 1.07 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 1.38 mW/g

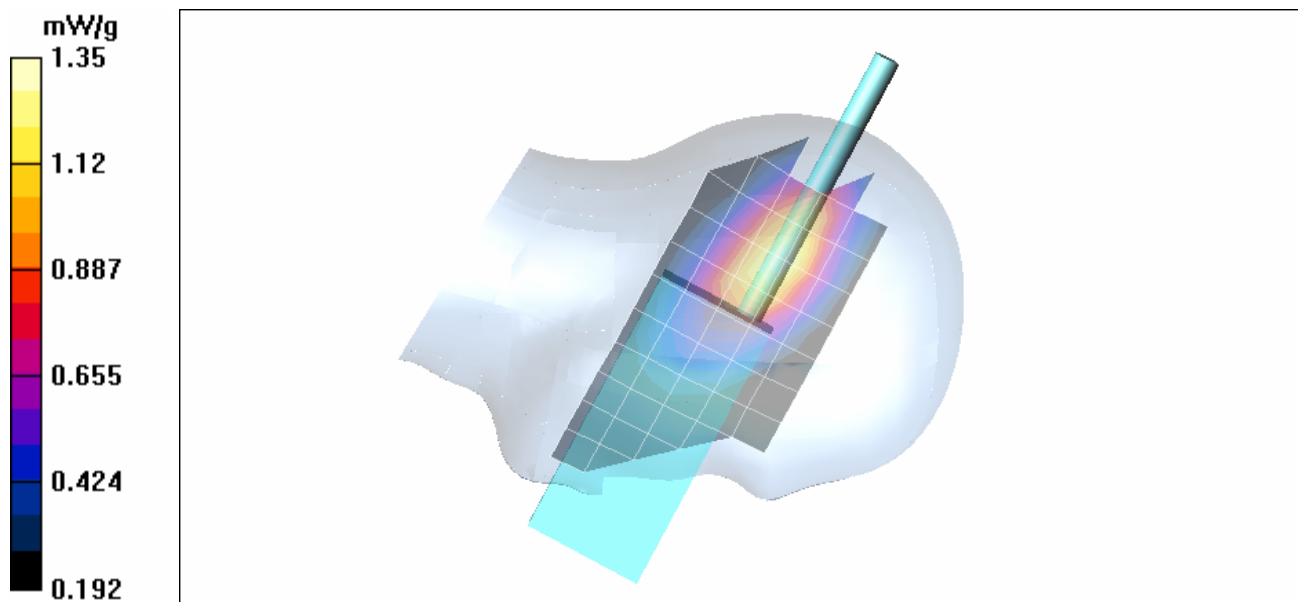
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 34.5 V/m; Power Drift = -0.415 dB

Peak SAR (extrapolated) = 1.95 W/kg

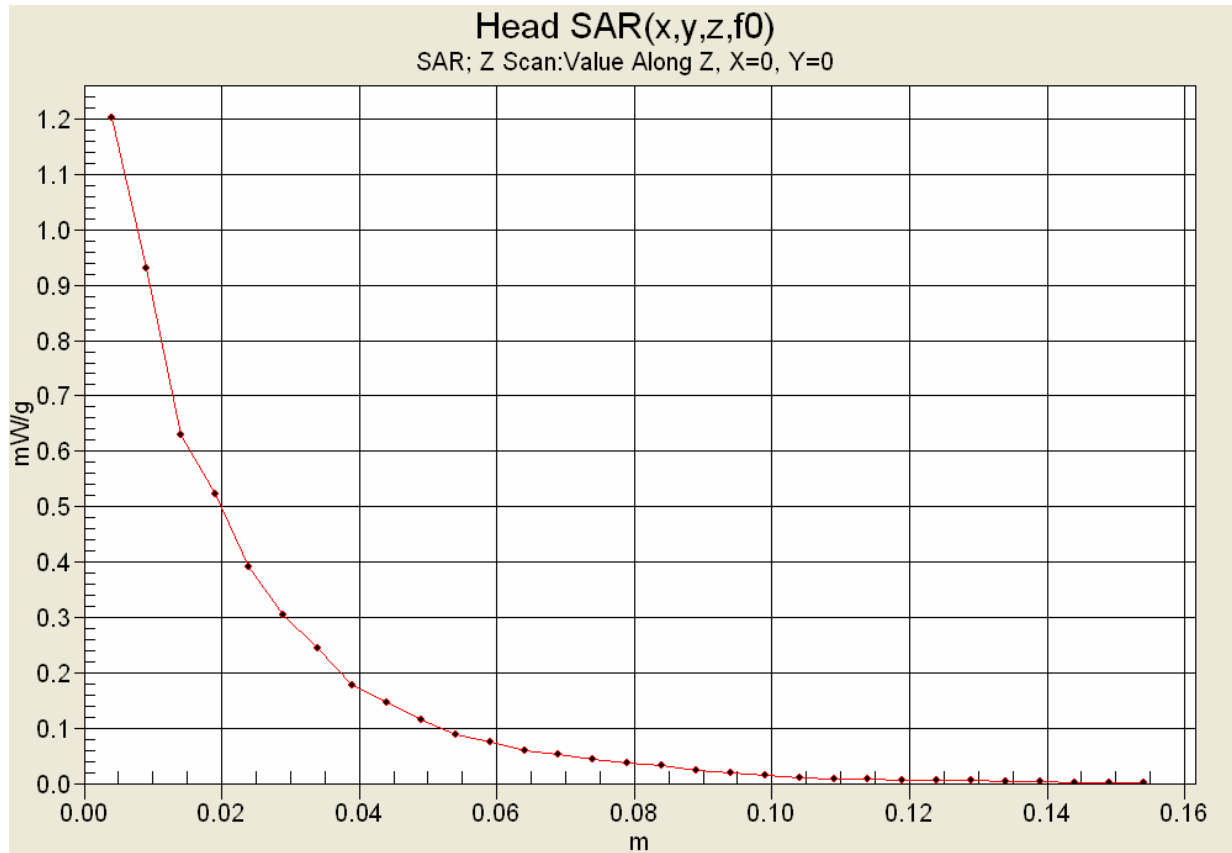
SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.886 mW/g



Maximum value of SAR (measured) = 1.35 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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Z-Axis Scan



	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Cheek-Touch Position - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Cheek-Touch Position

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 0.821 mW/g

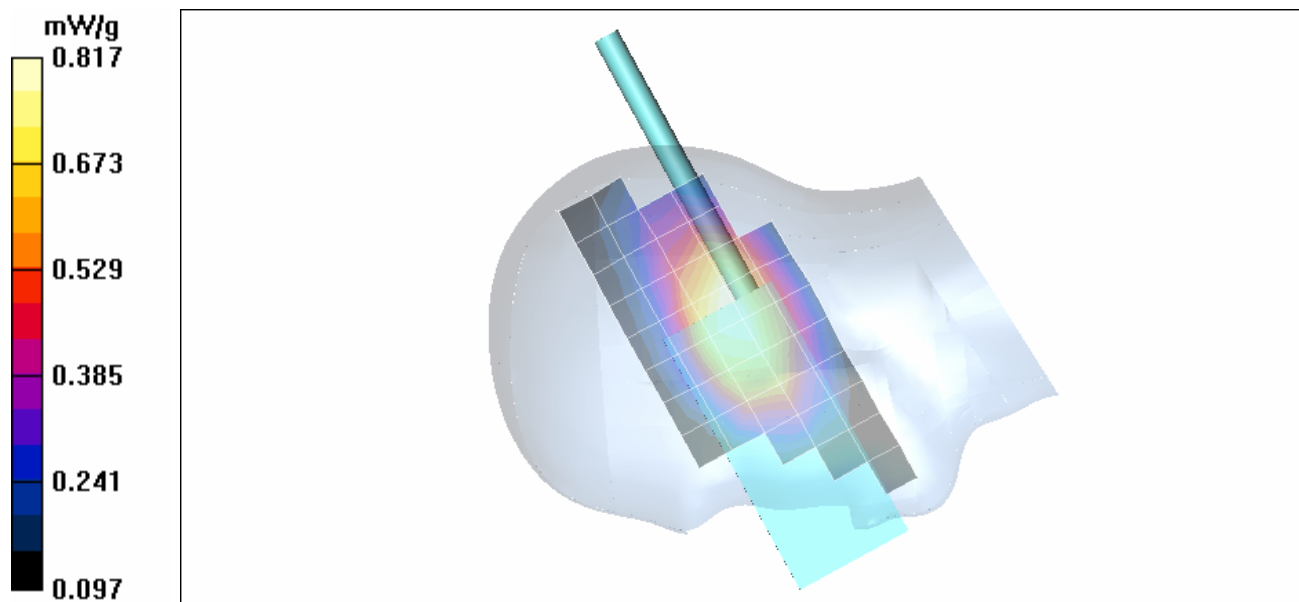
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 30.7 V/m; Power Drift = -0.397 dB



Peak SAR (extrapolated) = 1.13 W/kg

SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.560 mW/g

Maximum value of SAR (measured) = 0.817 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Ear-Tilt Position - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Ear-Tilt Position

Area Scan (6x17x1): Measurement grid: $dx=20\text{mm}$, $dy=20\text{mm}$

Maximum value of SAR (measured) = 1.12 mW/g

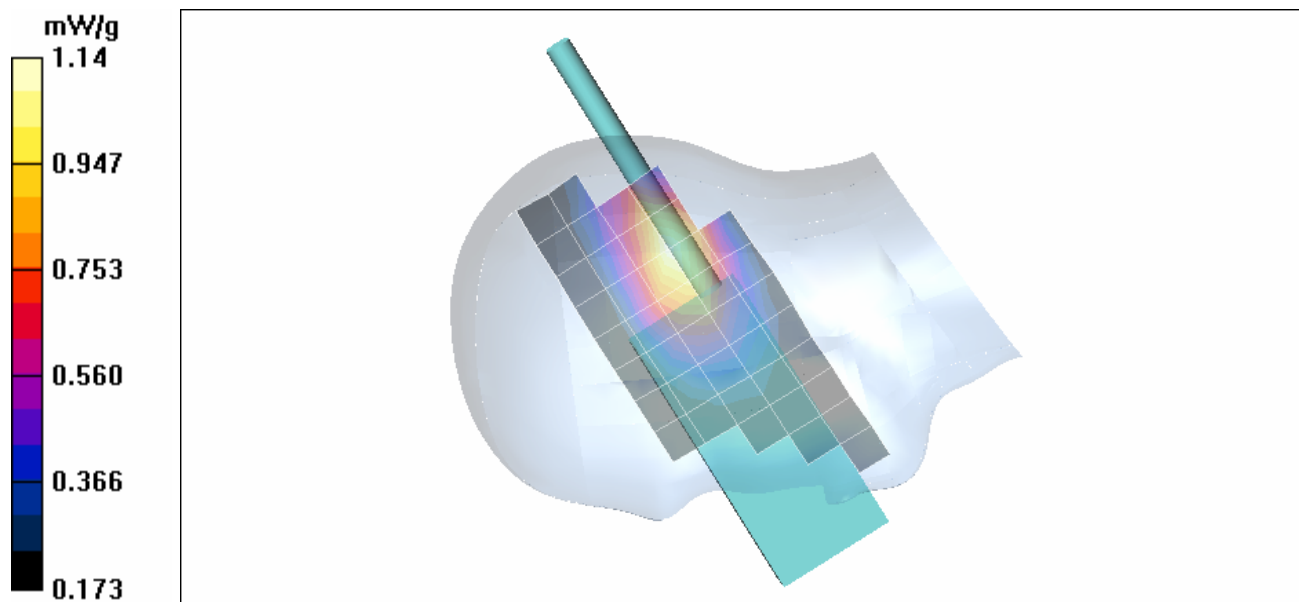
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=7.5\text{mm}$, $dy=7.5\text{mm}$, $dz=5\text{mm}$


Reference Value = 31.5 V/m; Power Drift = 0.341 dB



Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 1.06 mW/g; SAR(10 g) = 0.764 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 409.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 409 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 409$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.20 mW/g

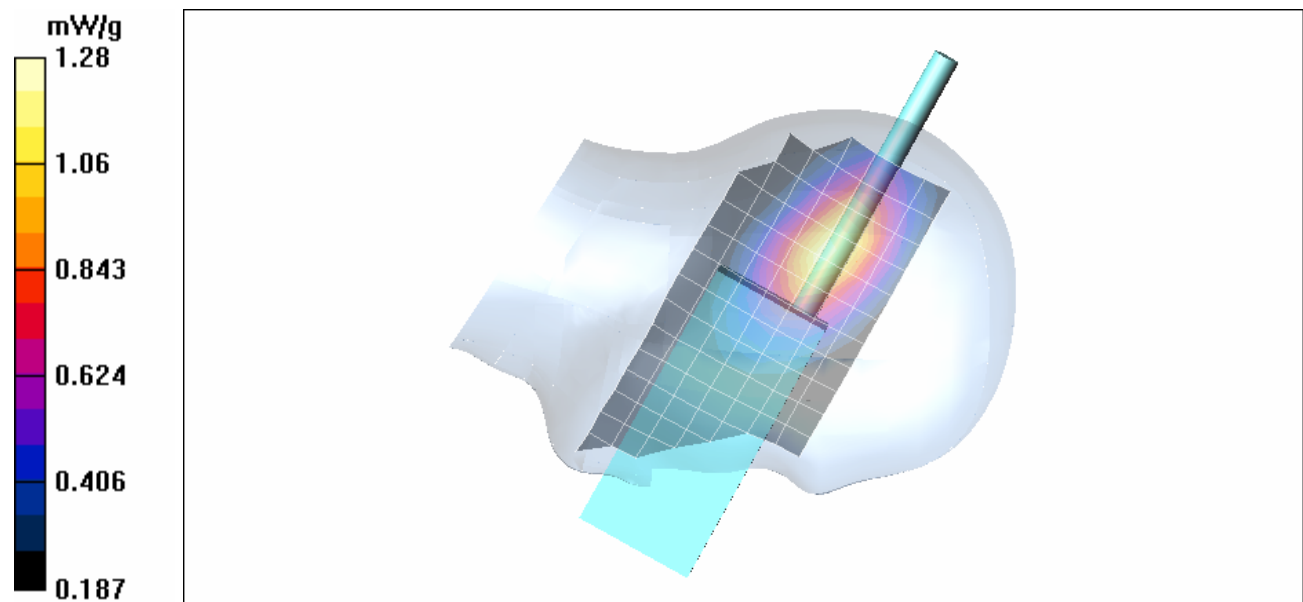
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm


Reference Value = 34.1 V/m; Power Drift = -0.516 dB

Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.828 mW/g

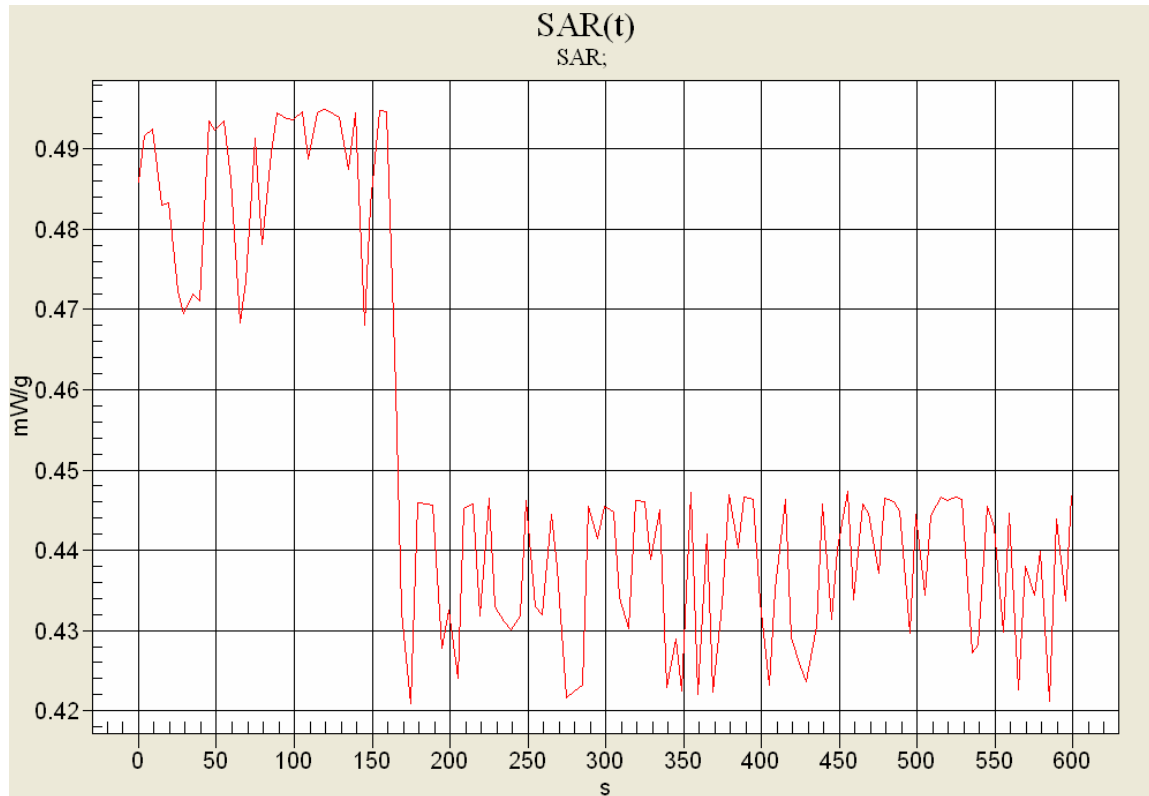
Maximum value of SAR (measured) = 1.28 mW/g





Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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SAR-versus-Time Droop Evaluation

Head Configuration
Left Head Section - Ear-Tilt Position
409 MHz



0s	0.494		start
340s	0.423	-0.673 dB	zoom scan
500s	0.421	-0.694 dB	area scan

	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 439.5 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 439.5 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.24 mW/g

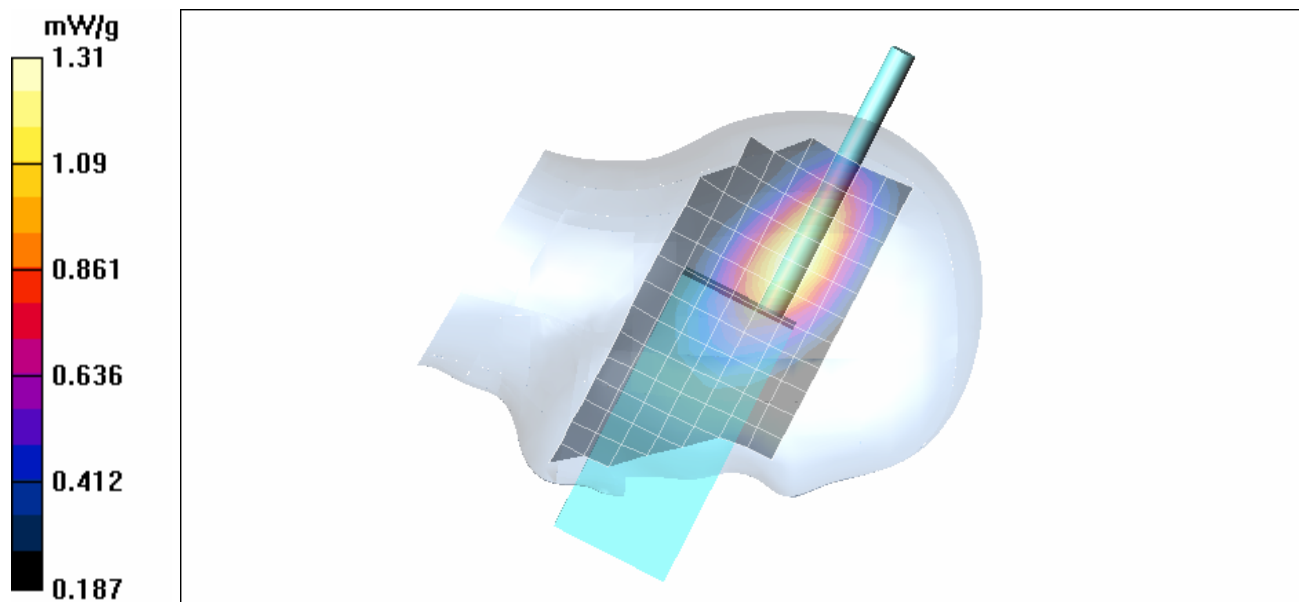
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 30.7 V/m; Power Drift = 0.364 dB



Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.868 mW/g

Maximum value of SAR (measured) = 1.31 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 470.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 470 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.15 mW/g

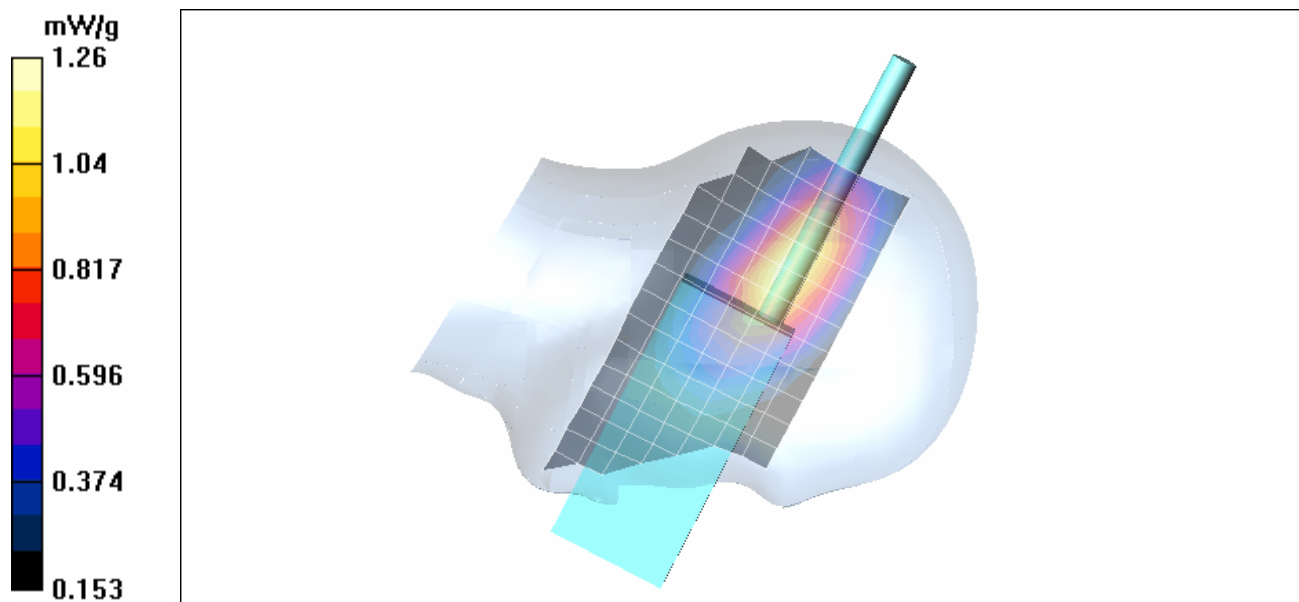
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 33.7 V/m; Power Drift = -0.515 dB



Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.818 mW/g

Maximum value of SAR (measured) = 1.26 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Ear-Tilt Position - 409.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 409 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 409 \text{ MHz}$; $\sigma = 0.83 \text{ mho/m}$; $\epsilon_r = 44.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.05 mW/g

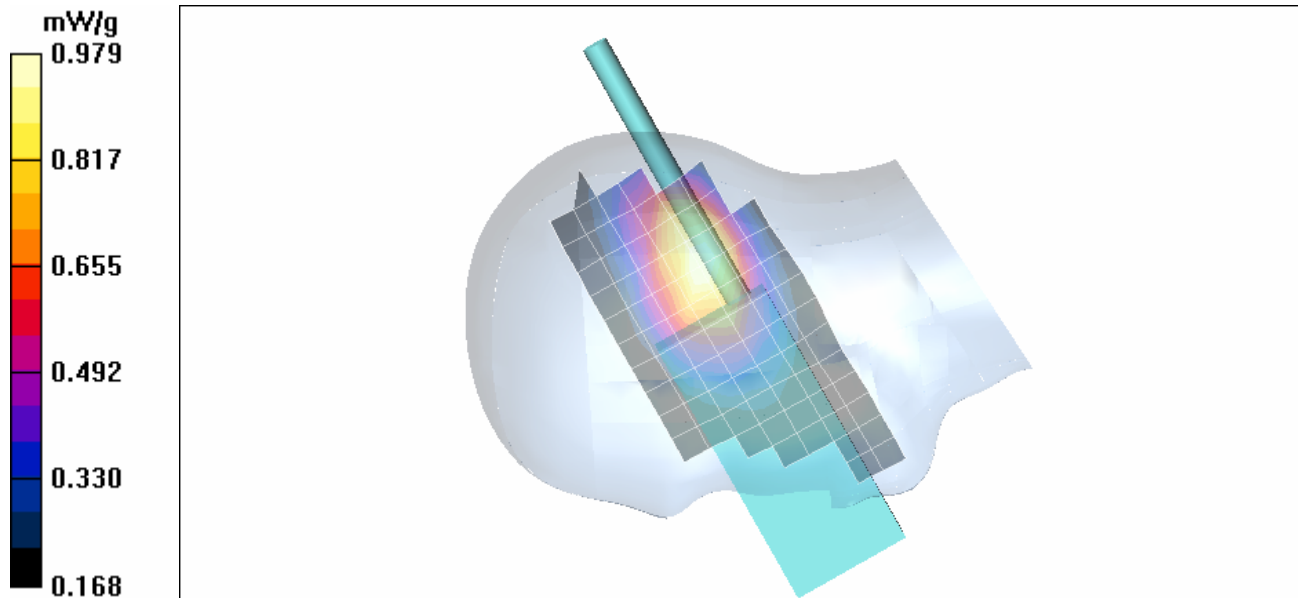
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 29.2 V/m; Power Drift = 0.130 dB



Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.916 mW/g; SAR(10 g) = 0.681 mW/g

Maximum value of SAR (measured) = 0.979 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Ear-Tilt Position - 439.5 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 439.5 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 440 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.01 mW/g

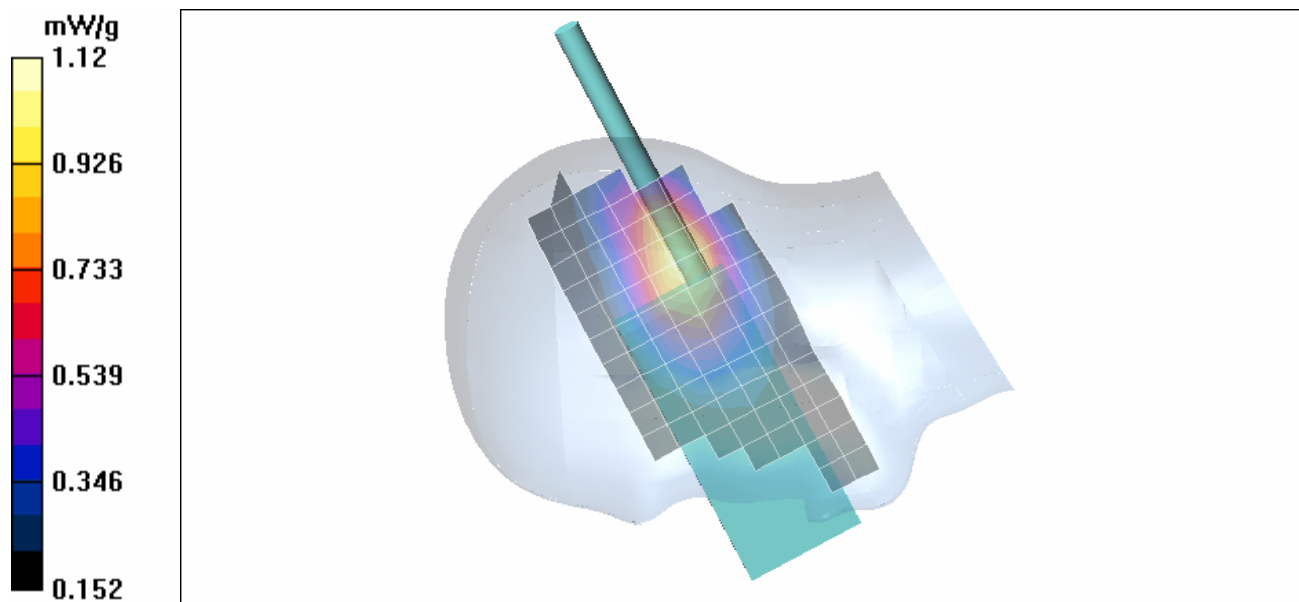
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 32.3 V/m; Power Drift = -0.207 dB



Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.750 mW/g

Maximum value of SAR (measured) = 1.12 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Right Head Section - Ear-Tilt Position - 470.0 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 470 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used: $f = 470 \text{ MHz}$; $\sigma = 0.87 \text{ mho/m}$; $\epsilon_r = 42.8$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fibreglas; Serial: 1033
- Measurement SW: DASy4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Right Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.947 mW/g

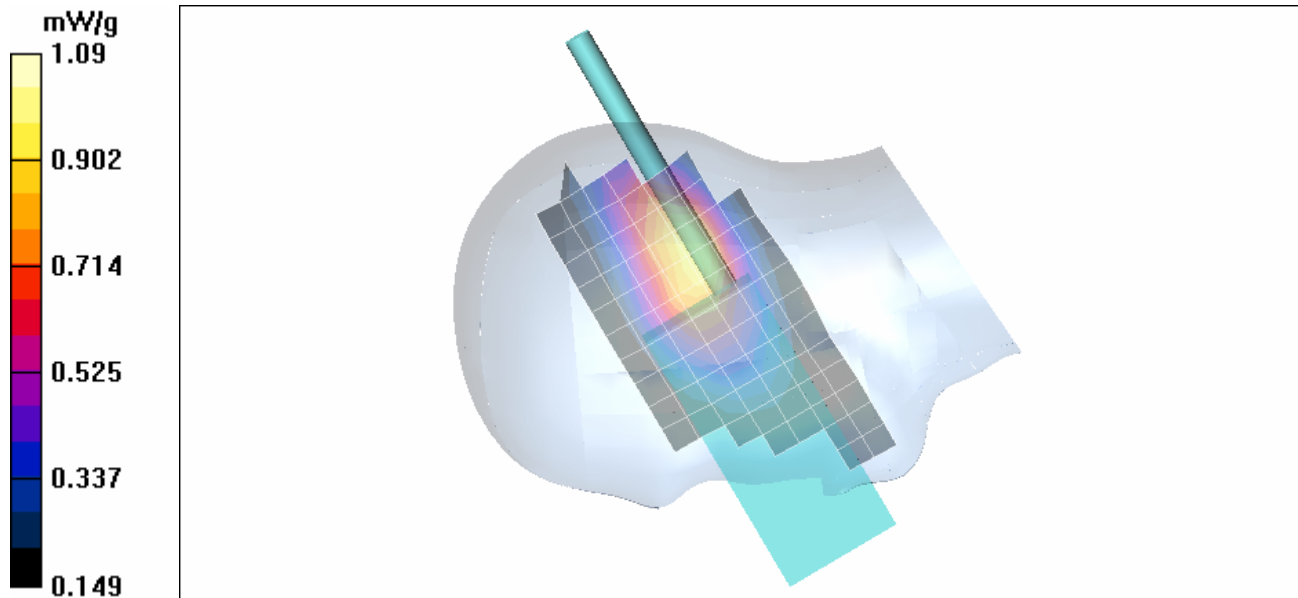
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 32.1 V/m; Power Drift = 0.021 dB



Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.720 mW/g

Maximum value of SAR (measured) = 1.09 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKTHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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	<u>Date(s) of Evaluation</u> March 04-05, 08, 2010	<u>Test Report Serial No.</u> 020510WT7-T1003-S90U	<u>Test Report Revision No.</u> Rev. 1.0 (Initial Release)	
	<u>Test Report Issue Date</u> March 17, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Occupational (Controlled)	

Date Tested: 03/05/2010

Head SAR - Left Head Section - Ear-Tilt Position - 454.75 MHz

DUT: Teltronic HTT-500; Type: Portable UHF TDMA Digital Radio Transceiver; Serial: D378Y21N1 (Pre-production)

DUT inside Nylon Case Accessory

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.8 kPa; Humidity: 35%

Communication System: TDMA 1/4

Frequency: 454.75 MHz; Duty Cycle: 1:4

Medium: HSL450 Medium parameters used (interpolated): $f = 454.75 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43.9$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(7.34, 7.34, 7.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 28/04/2009
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Head SAR - Left Head Section - Ear-Tilt Position

Area Scan (8x22x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.15 mW/g

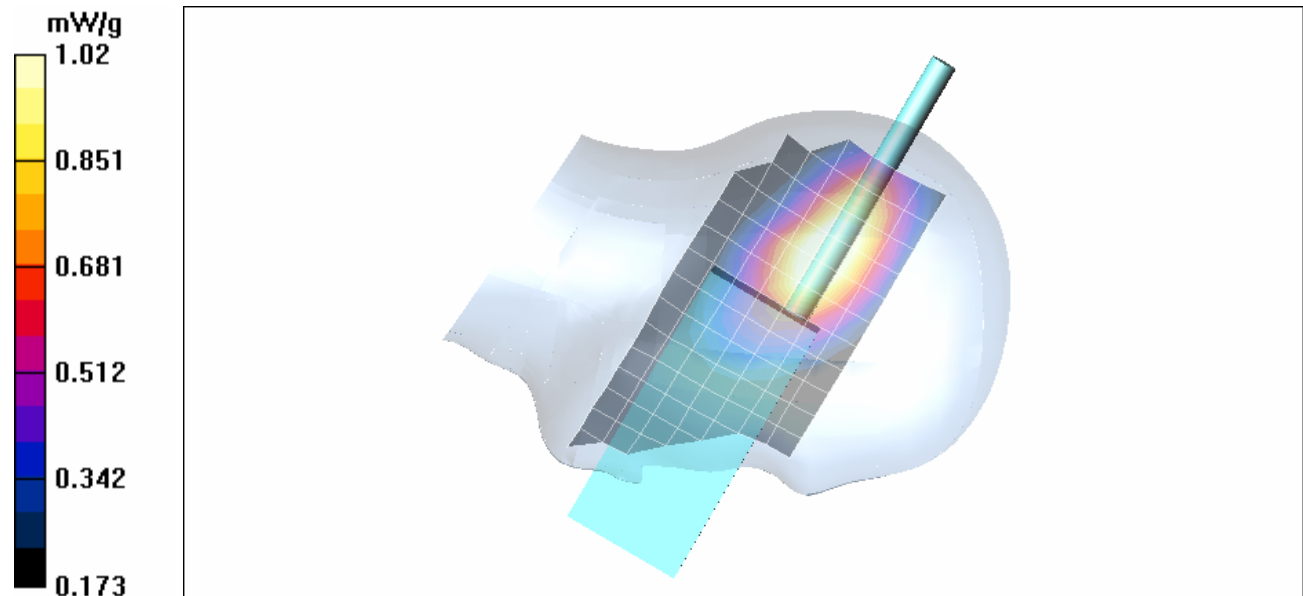
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 28.5 V/m; Power Drift = 0.411 dB

Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.936 mW/g; SAR(10 g) = 0.686 mW/g

Maximum value of SAR (measured) = 1.02 mW/g



Applicant:	Teltronic S.A.U.	FCC ID:	WT7PTRKHTT500410	IC:	8624A-PTRKT410	
DUT Type:	Portable UHF TDMA Radio Transceiver	Model:	HTT-500	Tx Freq.:	409.0 - 470.0 MHz	
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