

15.2 SAR Test Graph Results

SAR plots for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination according to FCC KDB 865664 D02

Plot 1

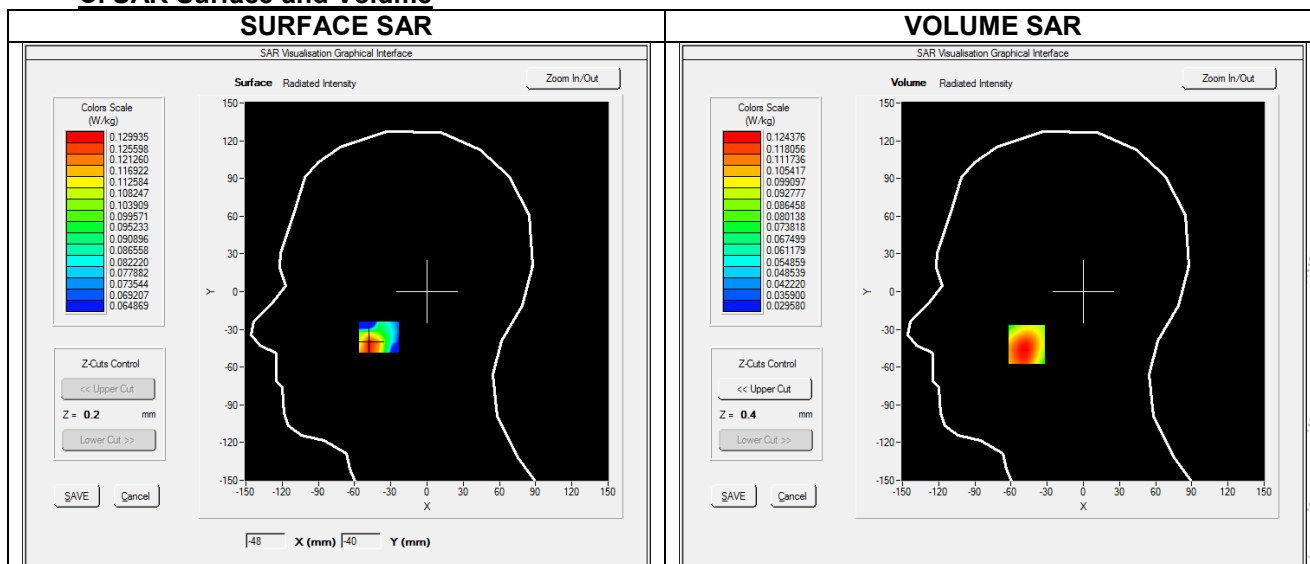
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x8, dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	836.600
Relative permittivity (real part)	40.702
Relative permittivity (imaginary part)	19.384
Conductivity (S/m)	0.923

C. SAR Surface and Volume



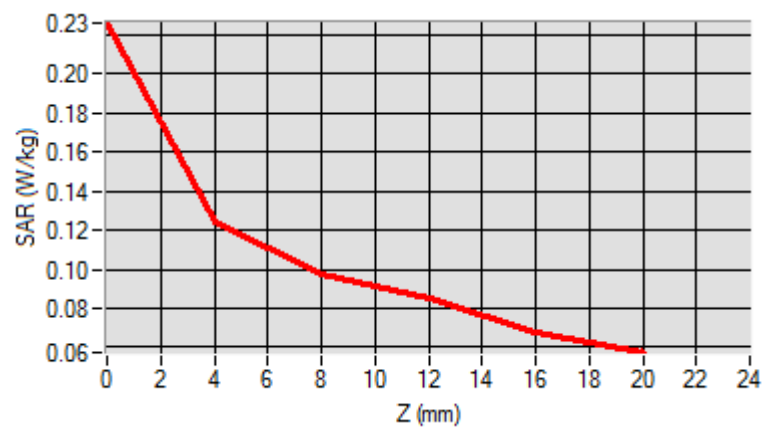
Maximum location: X=-47.00, Y=-42.00 ; SAR Peak: 0.15 W/kg

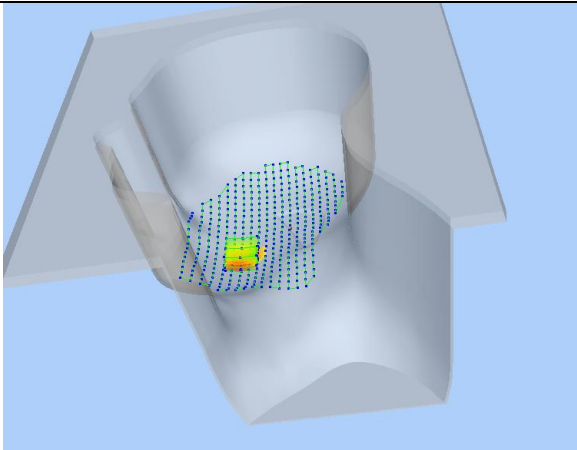
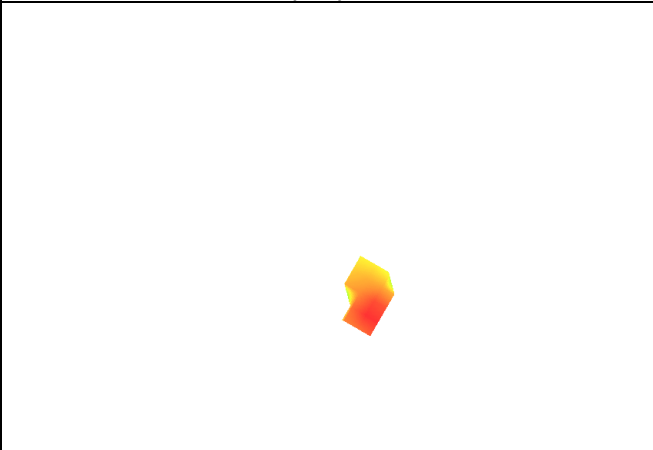
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.089
SAR 1g (W/Kg)	0.120
Variation (%)	-2.240
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.226	0.124	0.097	0.086	0.068


F. 3D Image

3D screen shot	Hot spot position
	

Plot 2

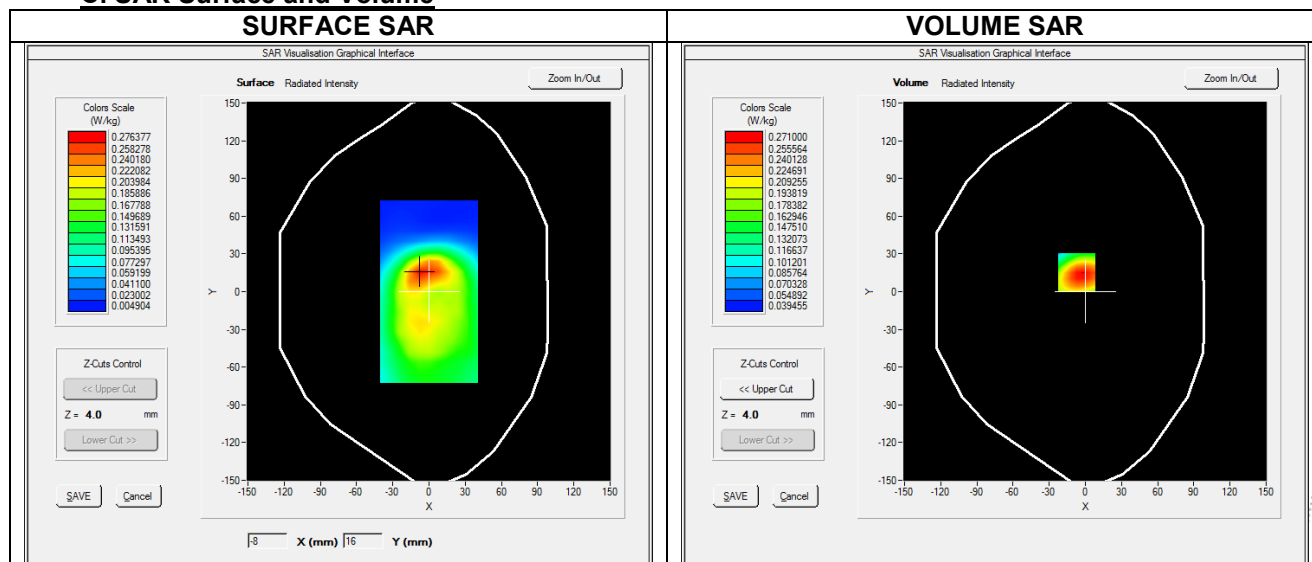
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	GPRS850_4TX
Channels	Middle
Signal	Custom (Crest factor: 2.0)

B. Permittivity

Frequency (MHz)	836.600
Relative permittivity (real part)	40.702
Relative permittivity (imaginary part)	19.384
Conductivity (S/m)	0.923

C. SAR Surface and Volume



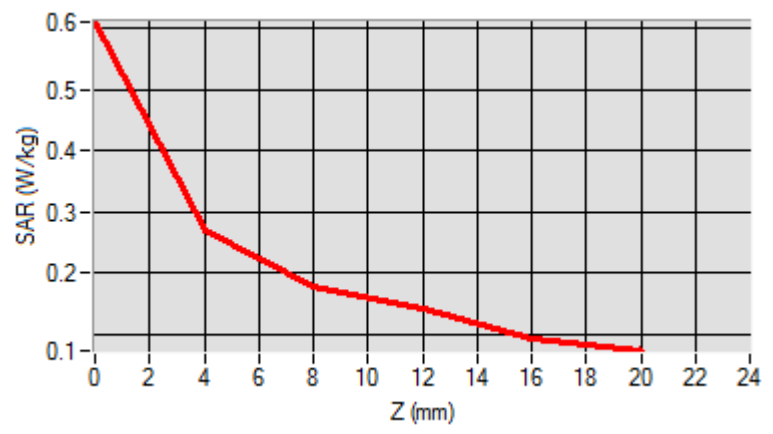
Maximum location: X=-7.00, Y=15.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

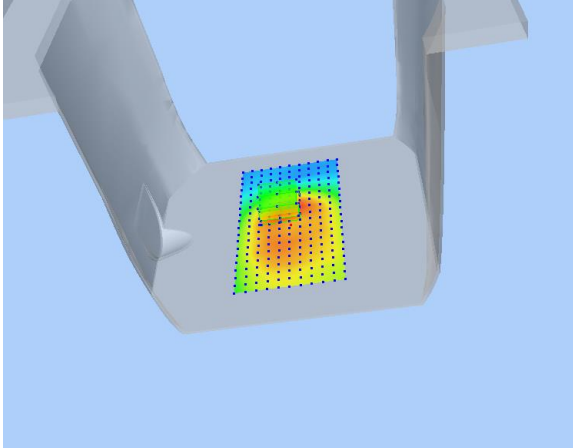
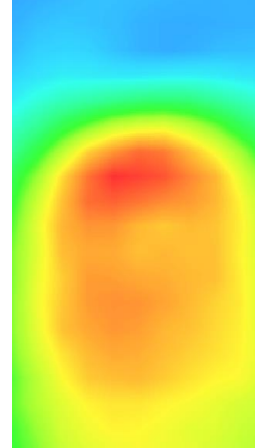
SAR 10g (W/Kg)	0.163
SAR 1g (W/Kg)	0.257
Variation (%)	1.830
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.610	0.271	0.177	0.142	0.094



F. 3D Image

3D screen shot	Hot spot position
	

Plot 3

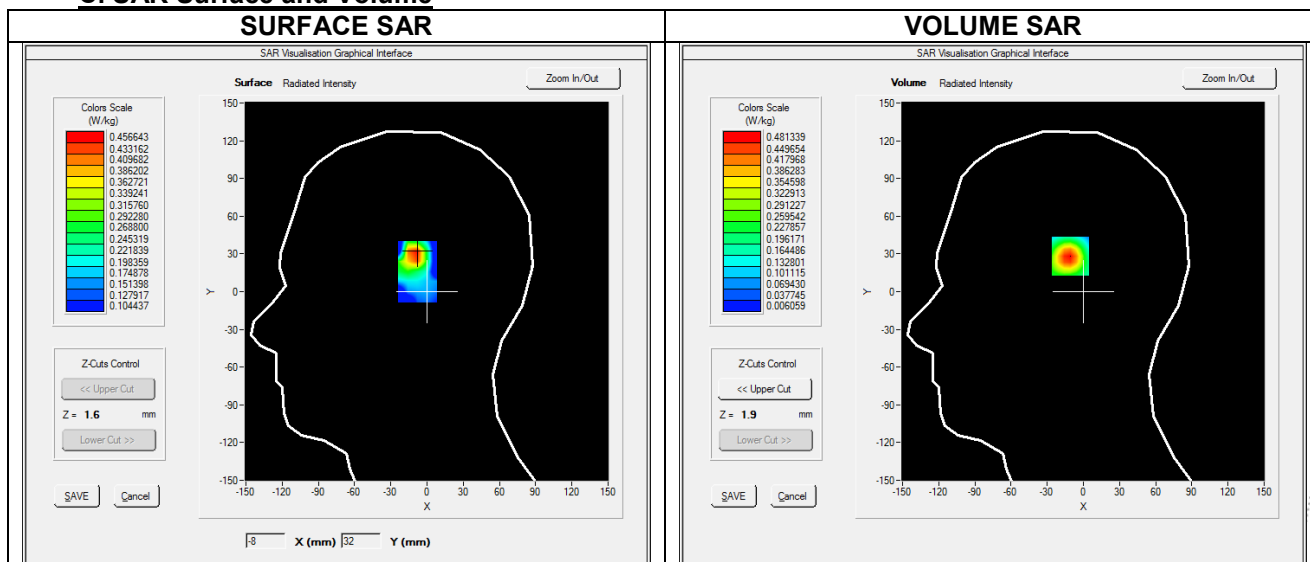
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	40.662
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.394

C. SAR Surface and Volume



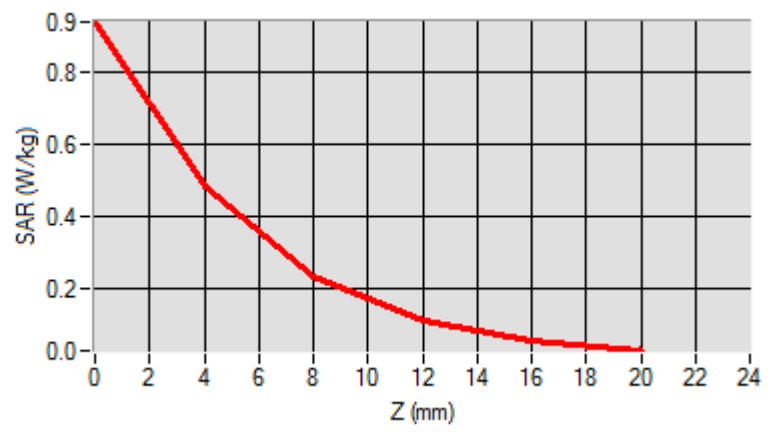
Maximum location: X=-10.00, Y=30.00 ; SAR Peak: 0.94 W/kg

D. SAR 1g & 10g

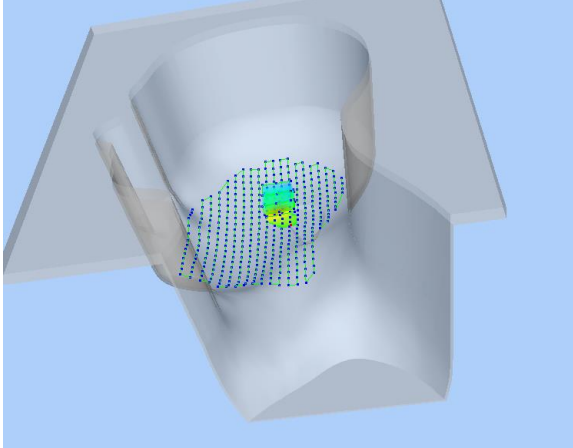
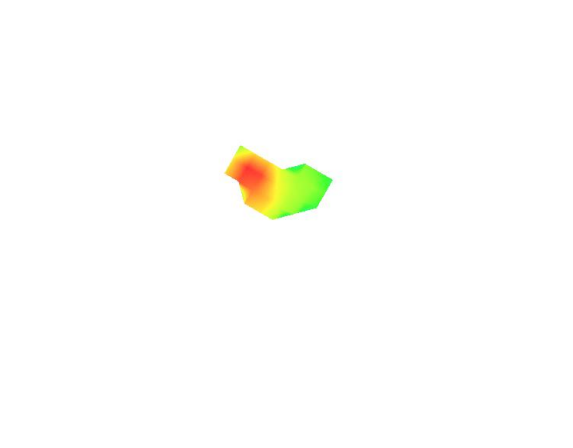
SAR 10g (W/Kg)	0.201
SAR 1g (W/Kg)	0.445
Variation (%)	-1.530
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.939	0.481	0.231	0.108	0.053



F. 3D Image

3D screen shot	Hot spot position
	

Plot 4

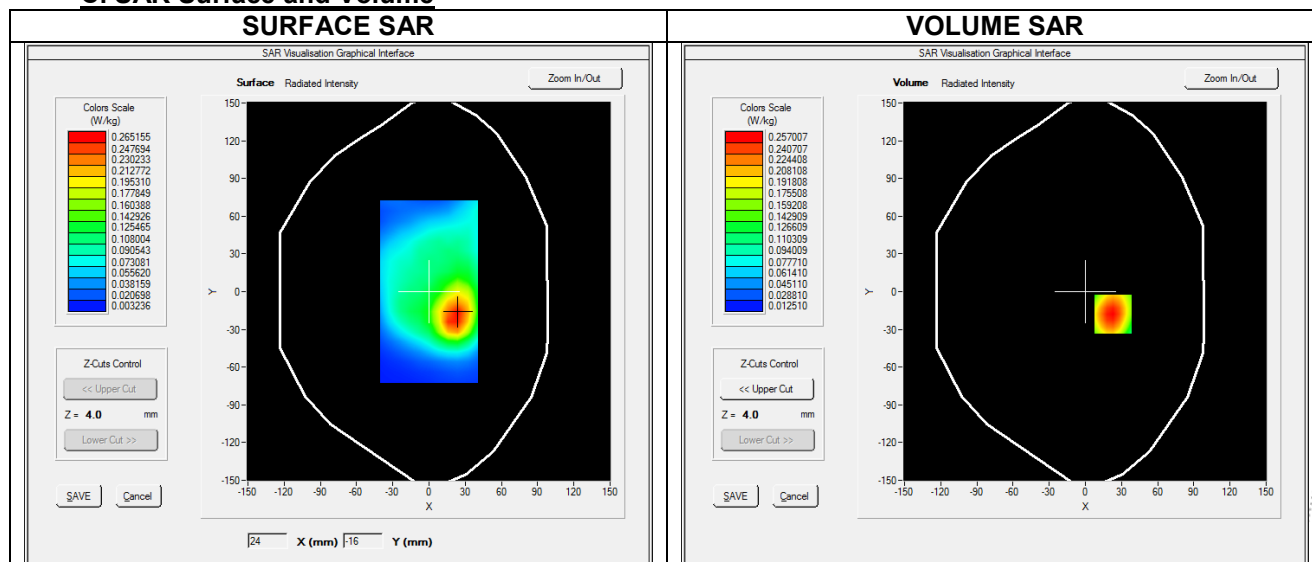
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	GPRS1900_4TX
Channels	Low
Signal	Custom (Crest factor: 2.0)

B. Permittivity

Frequency (MHz)	1850.200
Relative permittivity (real part)	40.689
Relative permittivity (imaginary part)	13.629
Conductivity (S/m)	1.386

C. SAR Surface and Volume



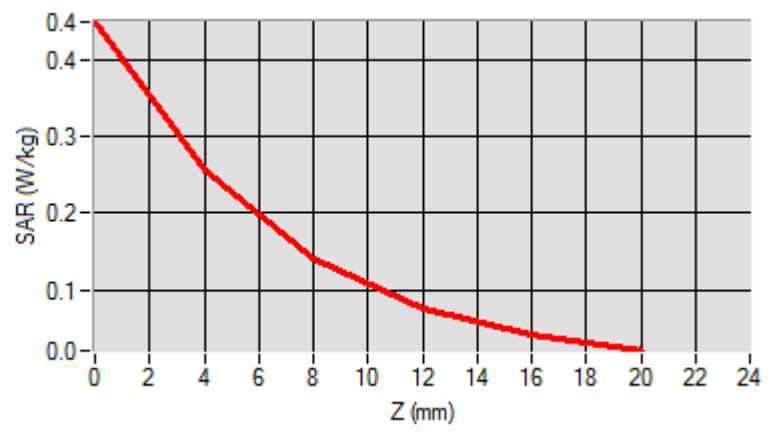
Maximum location: X=23.00, Y=-18.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

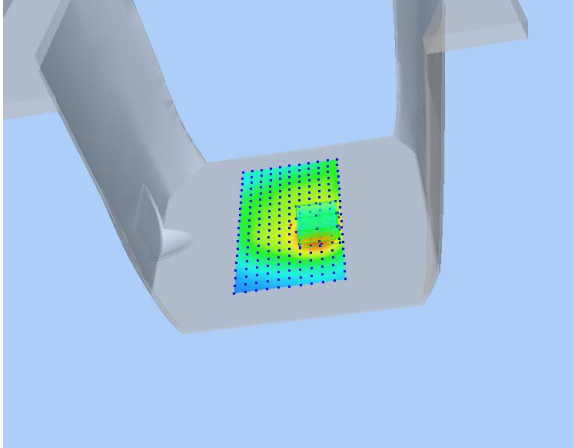
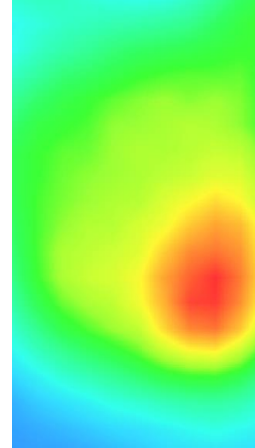
SAR 10g (W/Kg)	0.126
SAR 1g (W/Kg)	0.242
Variation (%)	-0.090
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.449	0.257	0.141	0.077	0.042



F. 3D Image

3D screen shot	Hot spot position
	

Plot 5

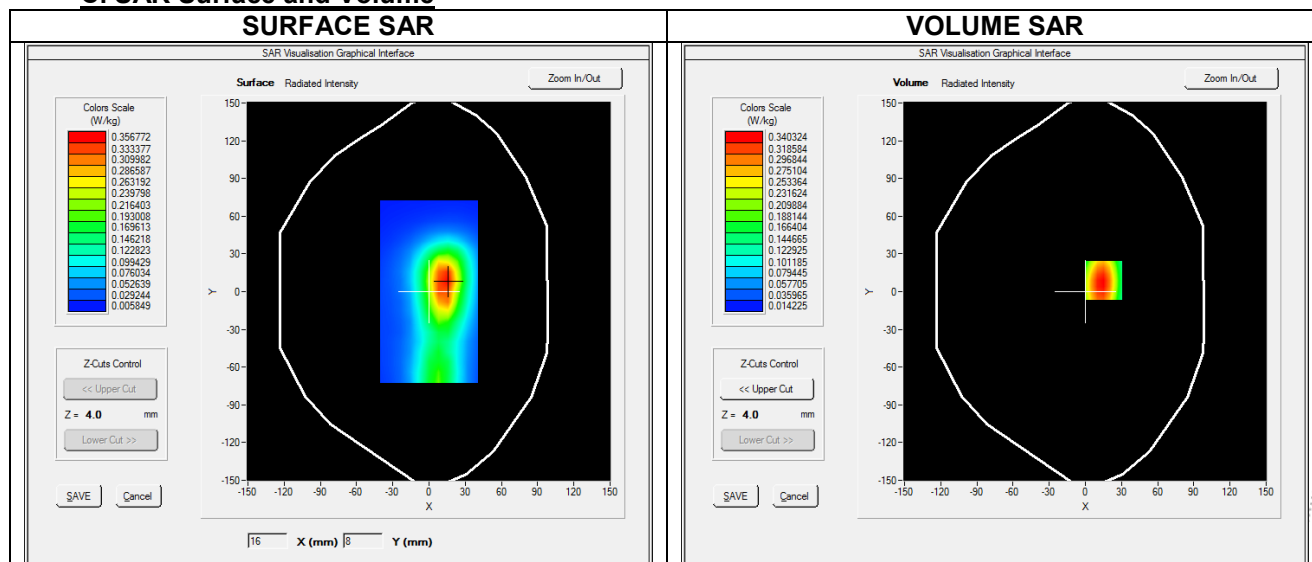
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	GPRS1900_4TX
Channels	Low
Signal	Custom (Crest factor: 2.0)

B. Permittivity

Frequency (MHz)	1850.200
Relative permittivity (real part)	40.689
Relative permittivity (imaginary part)	13.629
Conductivity (S/m)	1.386

C. SAR Surface and Volume



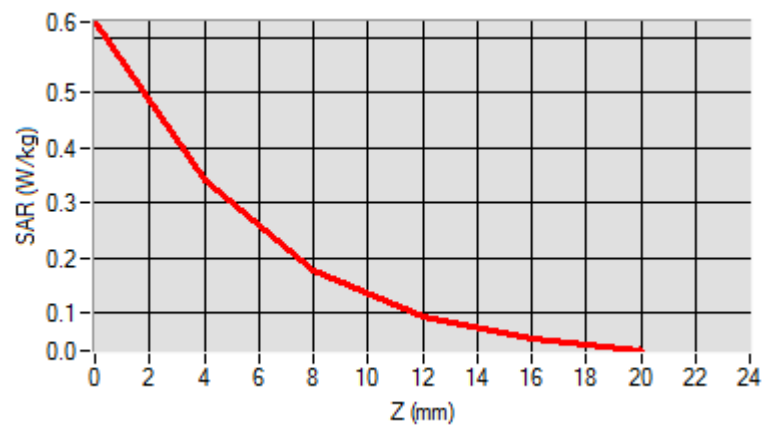
Maximum location: X=15.00, Y=9.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

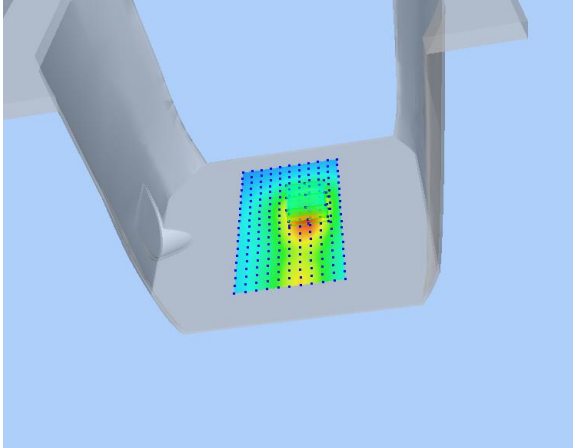
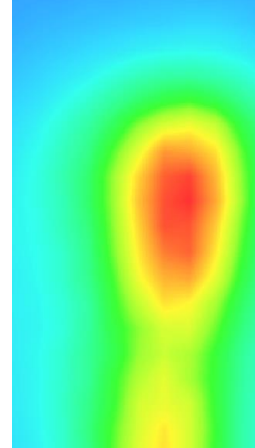
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.323
Variation (%)	0.090
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.628	0.340	0.177	0.094	0.053



F. 3D Image

3D screen shot	Hot spot position
	

Plot 6

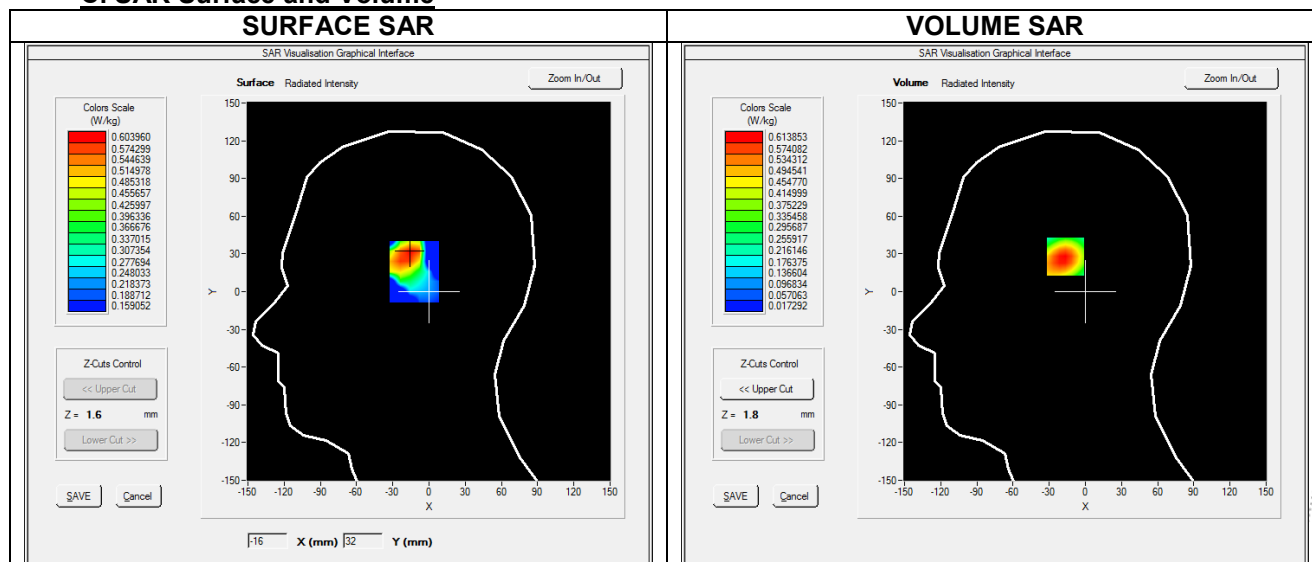
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	40.605
Relative permittivity (imaginary part)	13.210
Conductivity (S/m)	1.409

C. SAR Surface and Volume



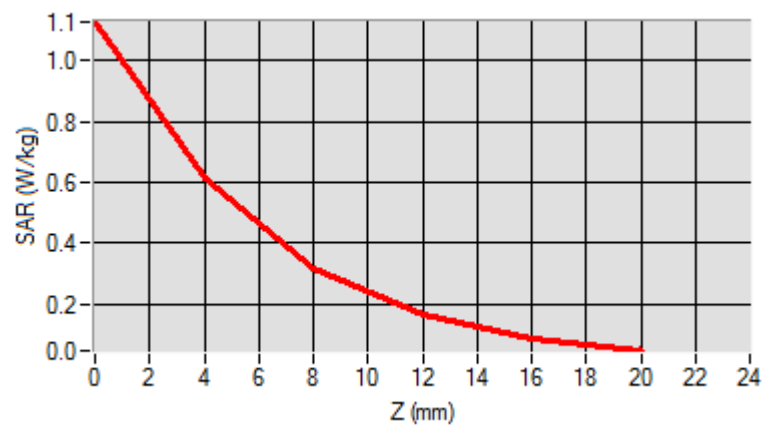
Maximum location: X=-16.00, Y=30.00 ; SAR Peak: 1.13 W/kg

D. SAR 1g & 10g

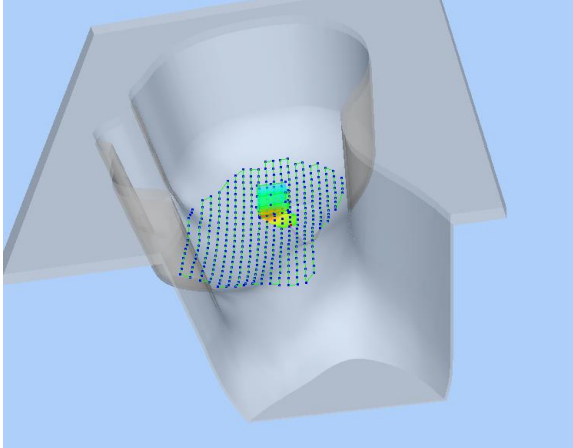
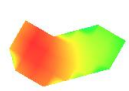
SAR 10g (W/Kg)	0.292
SAR 1g (W/Kg)	0.581
Variation (%)	-0.070
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

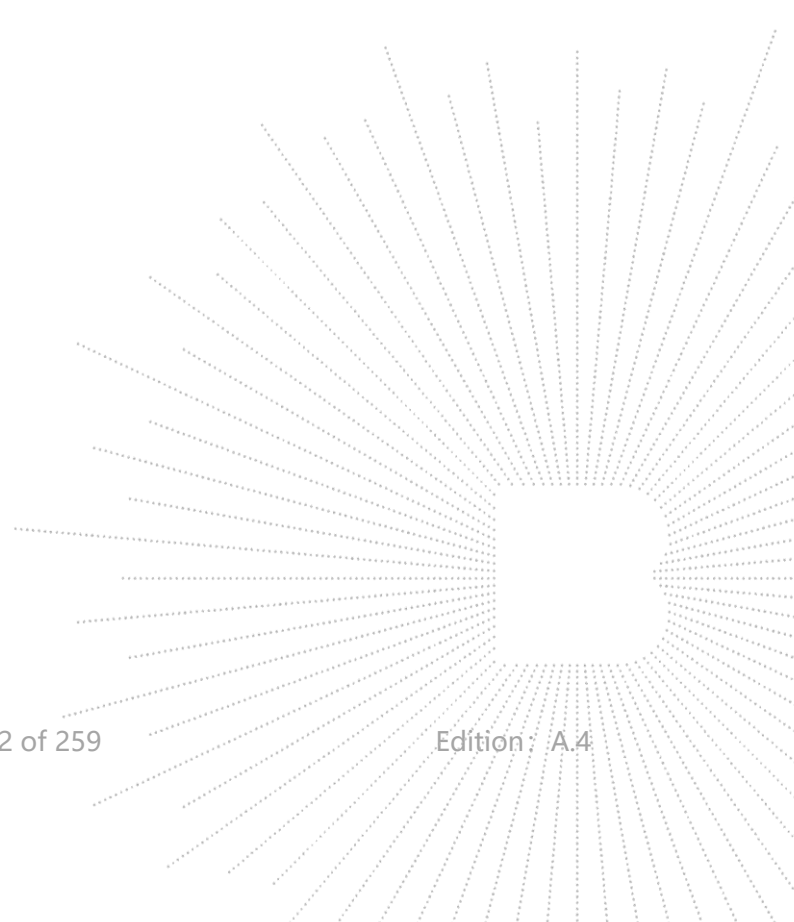
E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.127	0.614	0.319	0.164	0.088



F. 3D Image

3D screen shot	Hot spot position
	



Plot 7

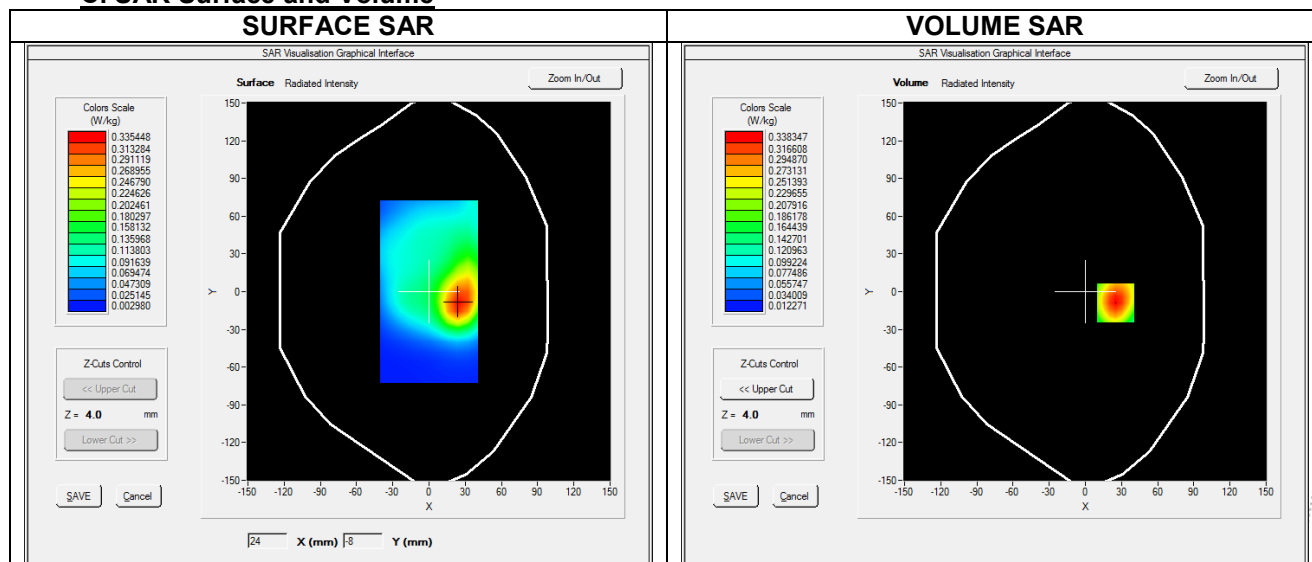
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	40.605
Relative permittivity (imaginary part)	13.210
Conductivity (S/m)	1.409

C. SAR Surface and Volume



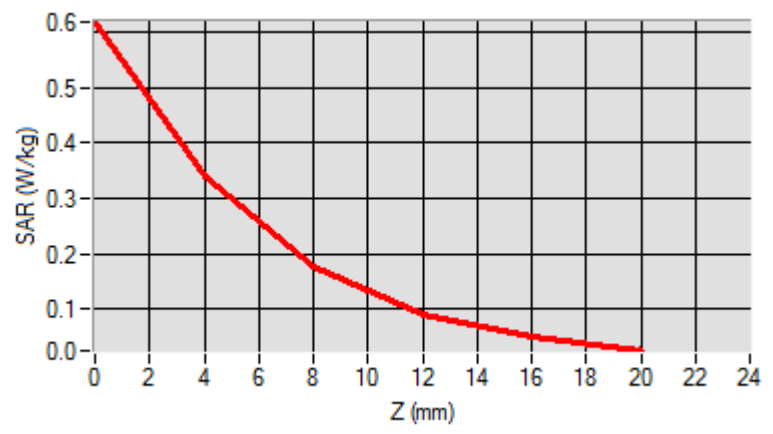
Maximum location: X=25.00, Y=-9.00 ; SAR Peak: 0.62 W/kg

D. SAR 1g & 10g

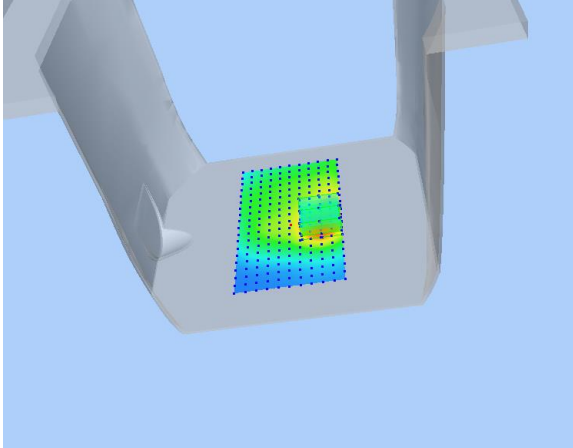
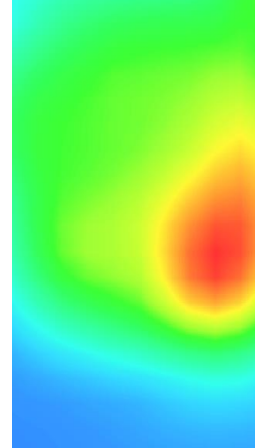
SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.320
Variation (%)	0.260
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.619	0.338	0.177	0.091	0.049



F. 3D Image

3D screen shot	Hot spot position
	

Plot 8

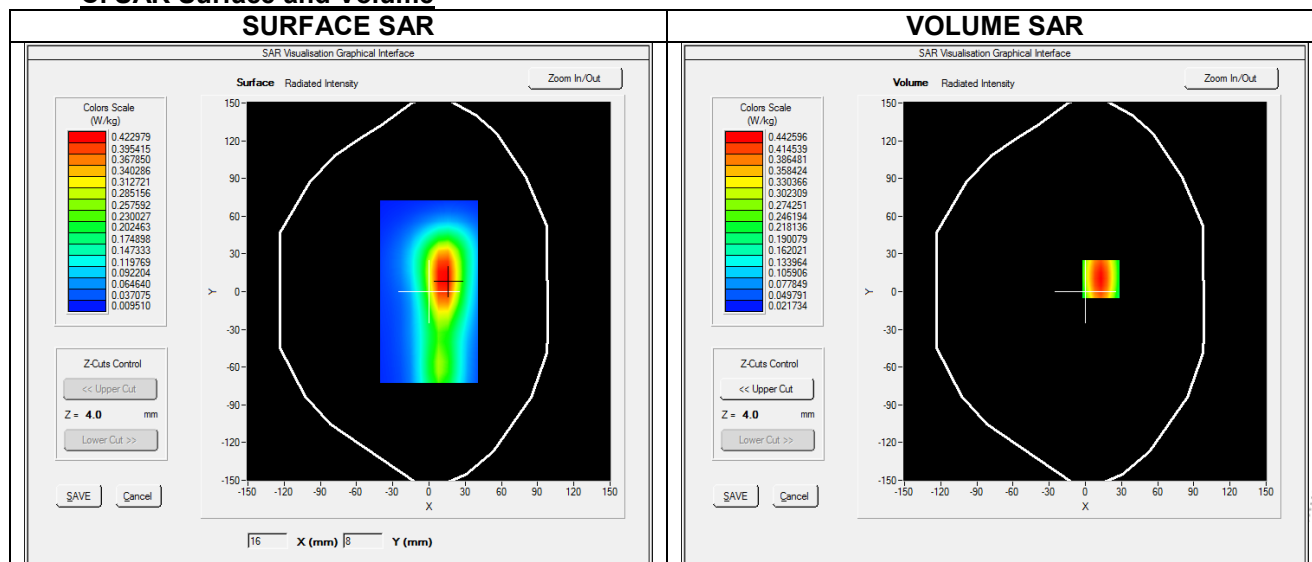
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	40.605
Relative permittivity (imaginary part)	13.210
Conductivity (S/m)	1.409

C. SAR Surface and Volume



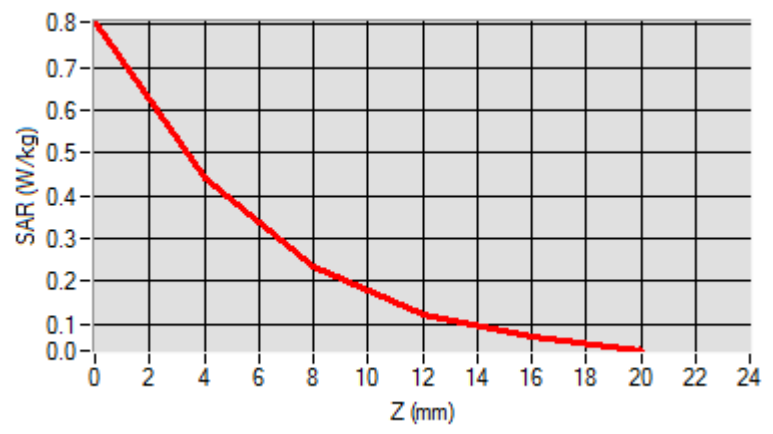
Maximum location: X=13.00, Y=10.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

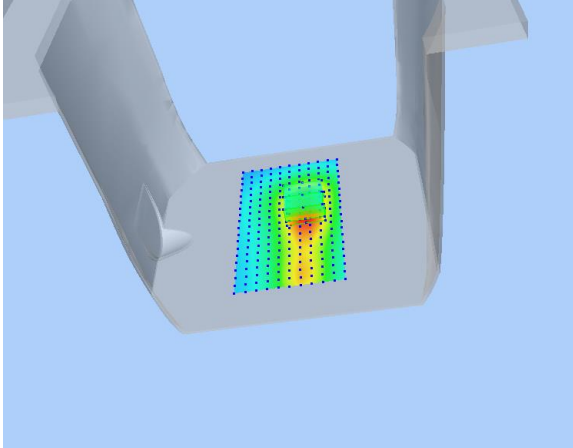
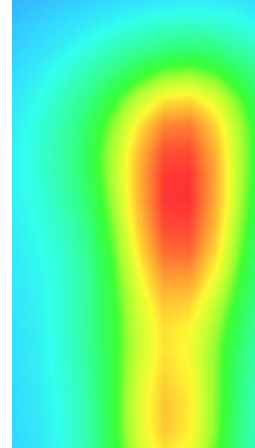
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.416
Variation (%)	-0.570
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.806	0.443	0.234	0.123	0.069



F. 3D Image

3D screen shot	Hot spot position
	

Plot 9

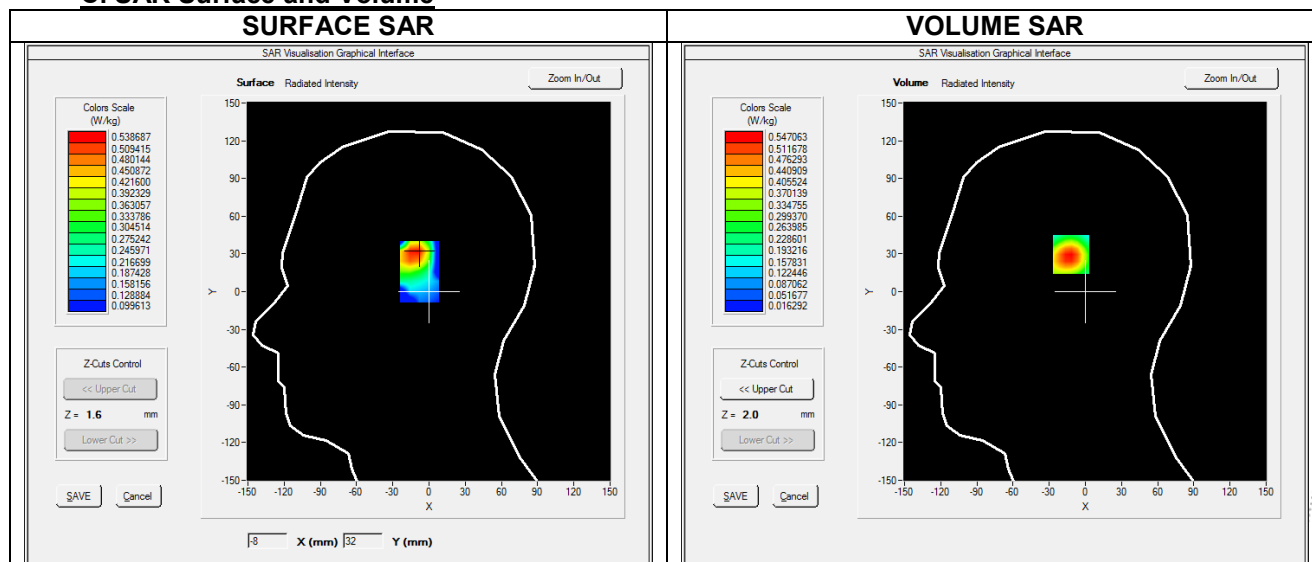
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA1700
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1712.400
Relative permittivity (real part)	40.838
Relative permittivity (imaginary part)	14.190
Conductivity (S/m)	1.358

C. SAR Surface and Volume



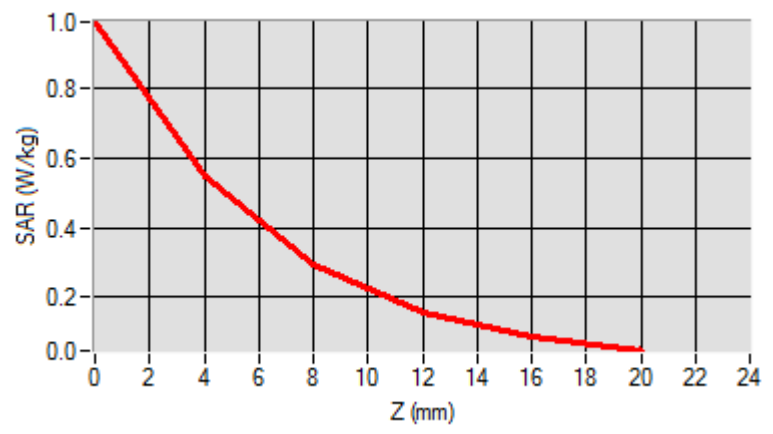
Maximum location: X=-11.00, Y=31.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

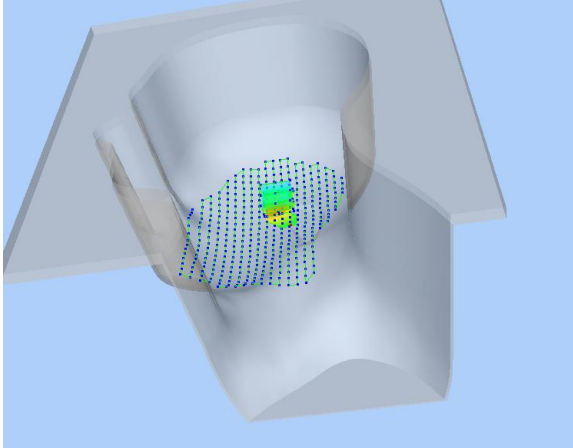
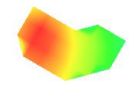
SAR 10g (W/Kg)	0.255
SAR 1g (W/Kg)	0.511
Variation (%)	0.290
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

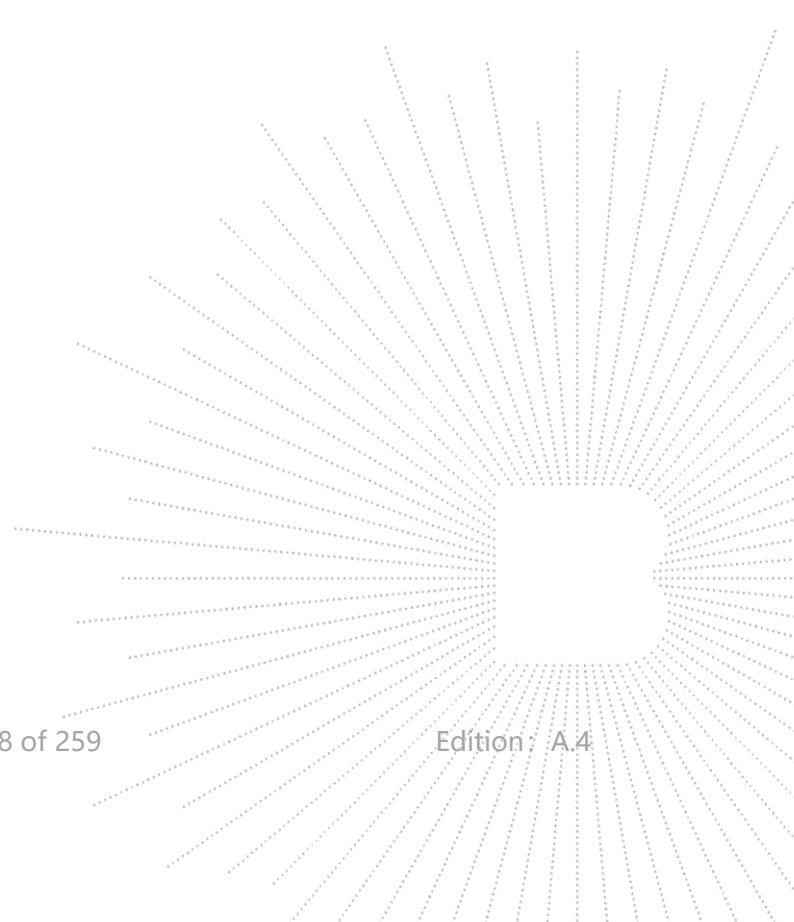
E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.988	0.547	0.291	0.155	0.087



F. 3D Image

3D screen shot	Hot spot position
	



Plot 10

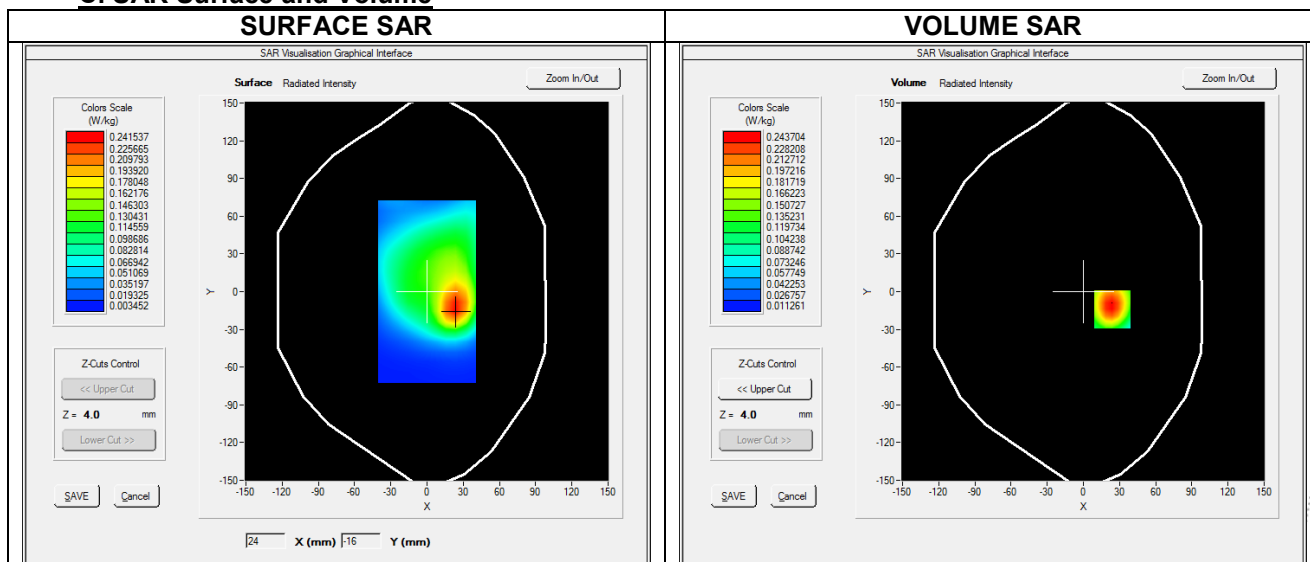
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	WCDMA1700
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1712.400
Relative permittivity (real part)	40.838
Relative permittivity (imaginary part)	14.190
Conductivity (S/m)	1.358

C. SAR Surface and Volume



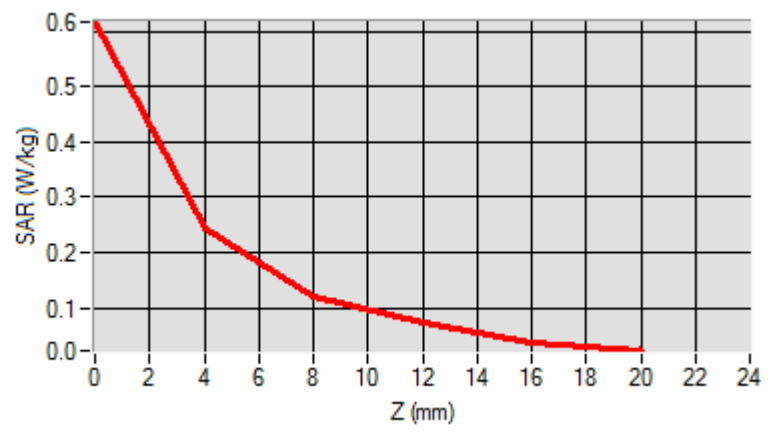
Maximum location: X=24.00, Y=-14.00 ; SAR Peak: 0.43 W/kg

D. SAR 1g & 10g

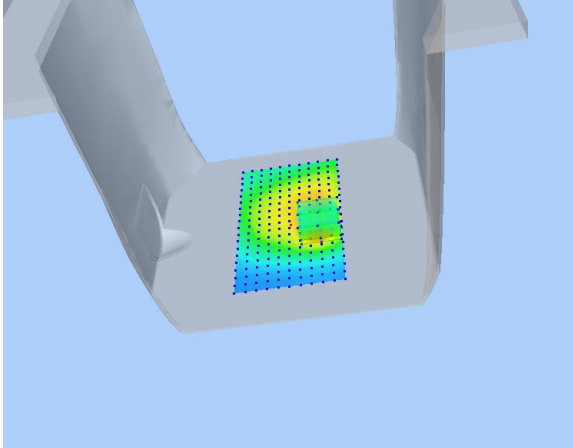
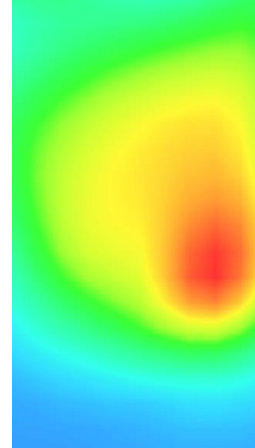
SAR 10g (W/Kg)	0.118
SAR 1g (W/Kg)	0.231
Variation (%)	-0.310
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.617	0.244	0.119	0.074	0.036



F. 3D Image

3D screen shot	Hot spot position
	

Plot 11

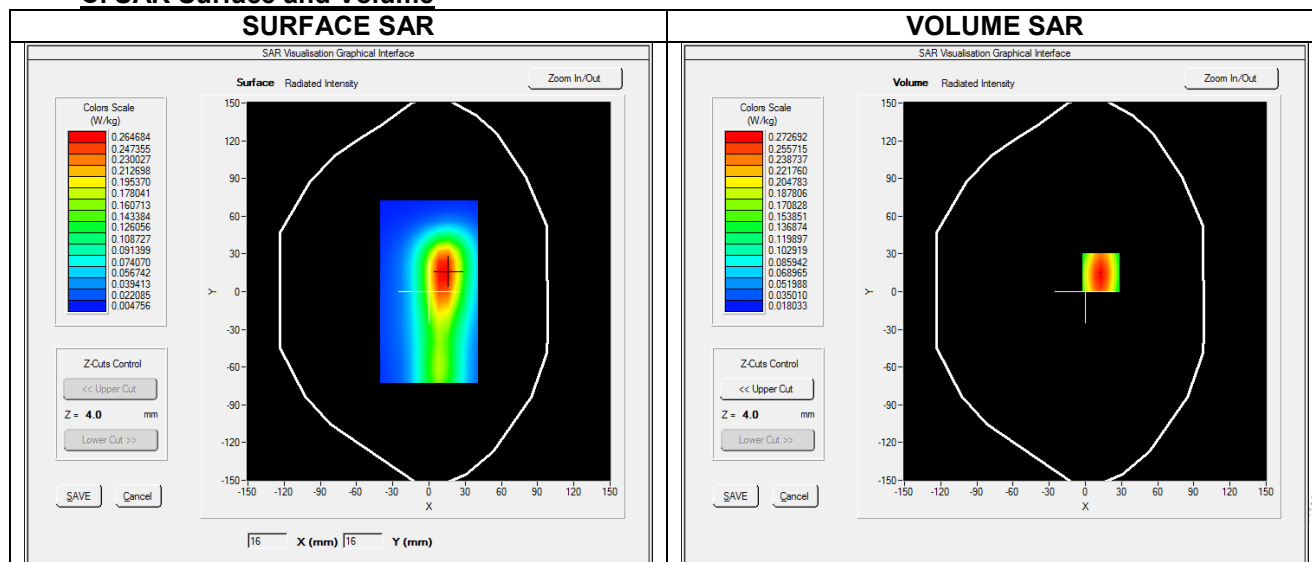
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	WCDMA1700
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1712.400
Relative permittivity (real part)	40.838
Relative permittivity (imaginary part)	14.190
Conductivity (S/m)	1.358

C. SAR Surface and Volume

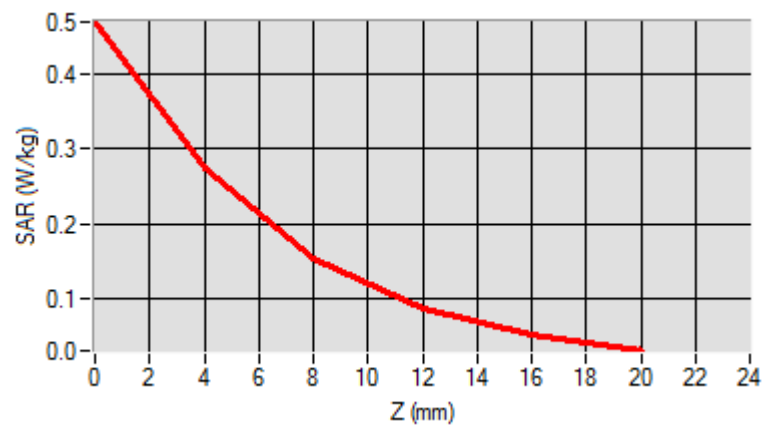


D. SAR 1g & 10g

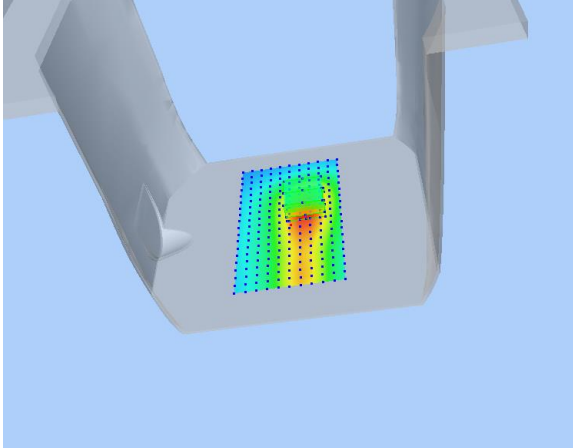
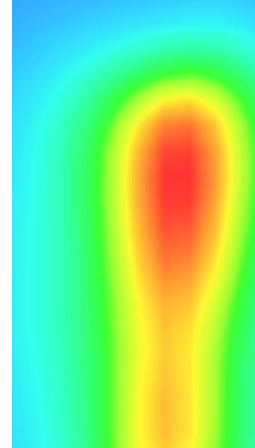
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.256
Variation (%)	-1.580
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

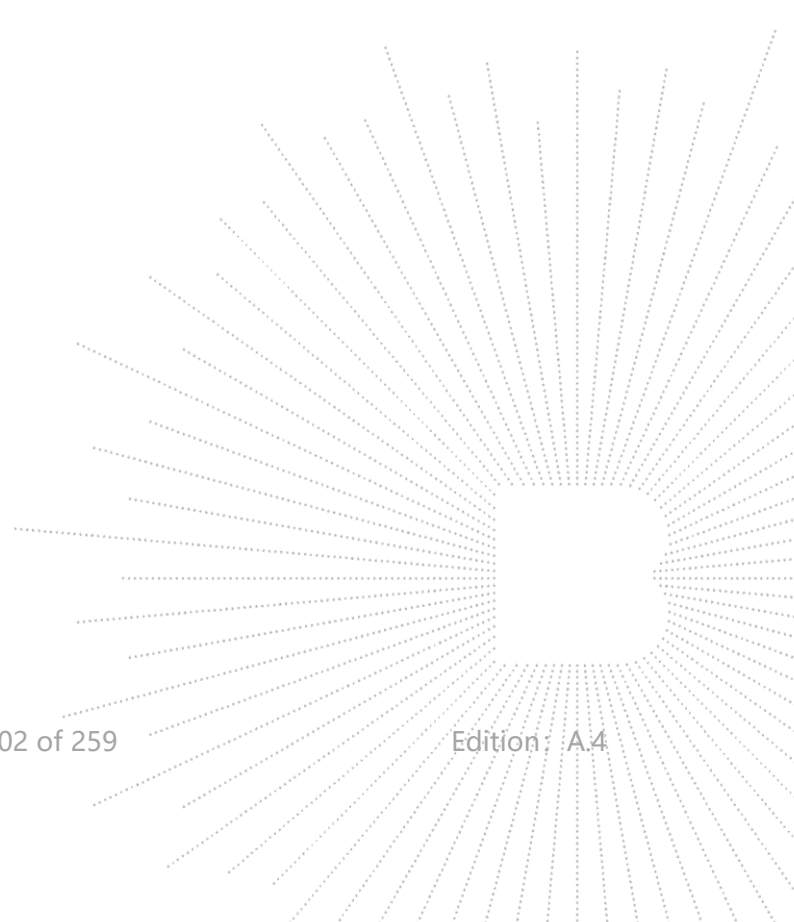
E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.468	0.273	0.155	0.089	0.053



F. 3D Image

3D screen shot	Hot spot position
	



Plot 12

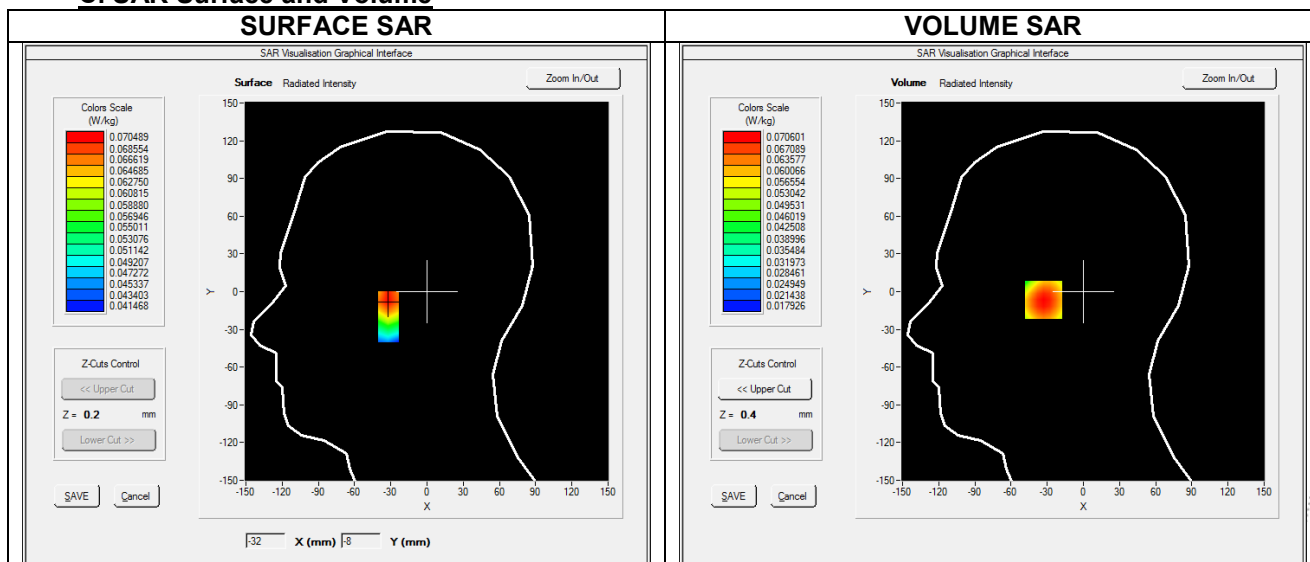
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	WCDMA850
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	42.755
Relative permittivity (imaginary part)	19.598
Conductivity (S/m)	0.919

C. SAR Surface and Volume



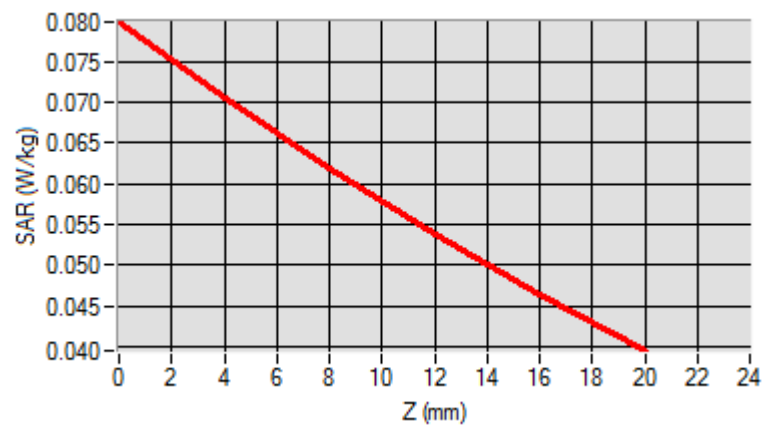
Maximum location: X=-32.00, Y=-6.00 ; SAR Peak: 0.08 W/kg

D. SAR 1g & 10g

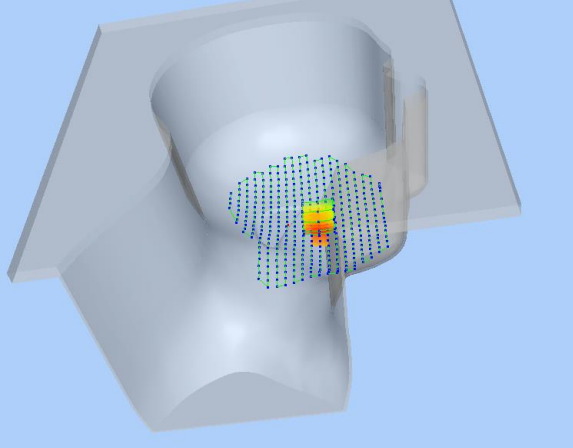
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.068
Variation (%)	-0.200
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.080	0.071	0.062	0.054	0.046



F. 3D Image

3D screen shot	Hot spot position
	

Plot 13

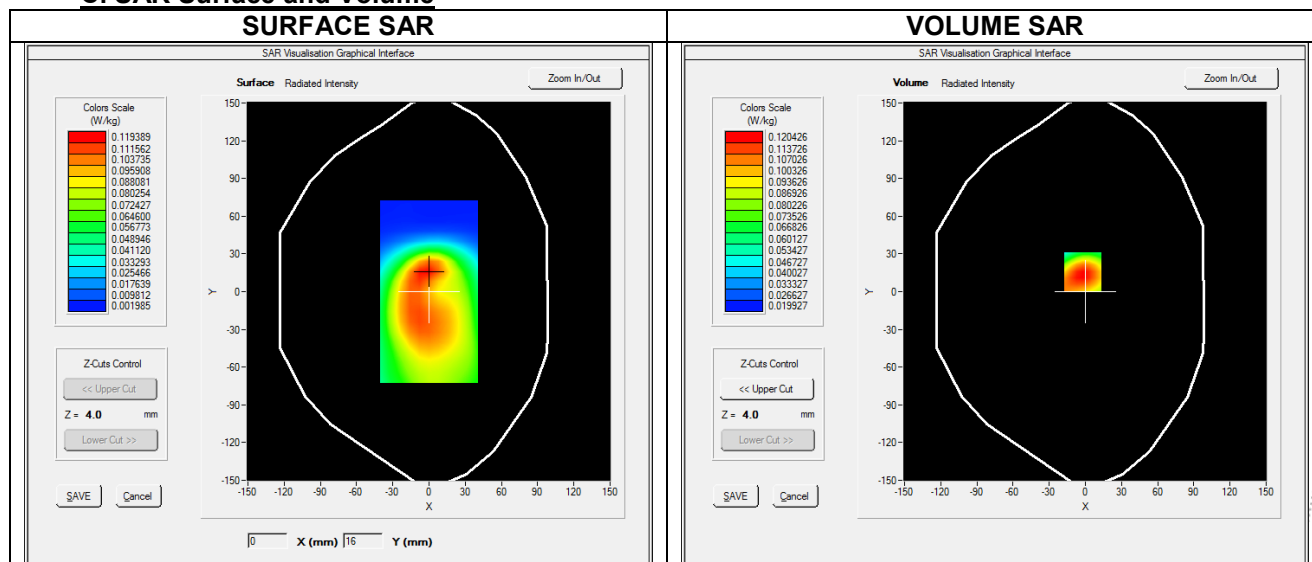
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	Low
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	42.755
Relative permittivity (imaginary part)	19.598
Conductivity (S/m)	0.919

C. SAR Surface and Volume

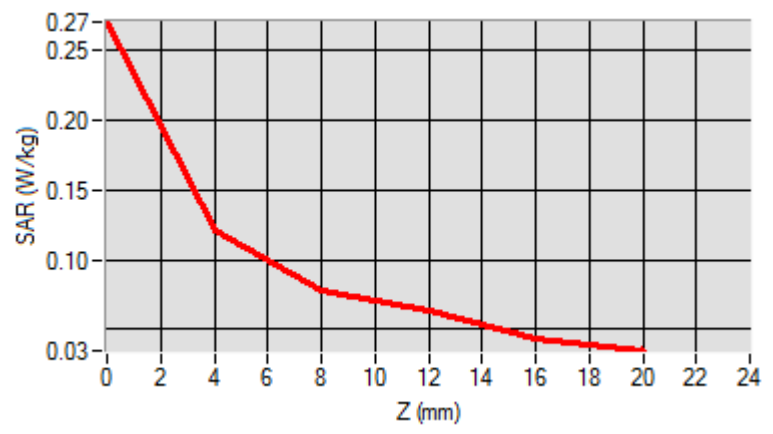


D. SAR 1g & 10g

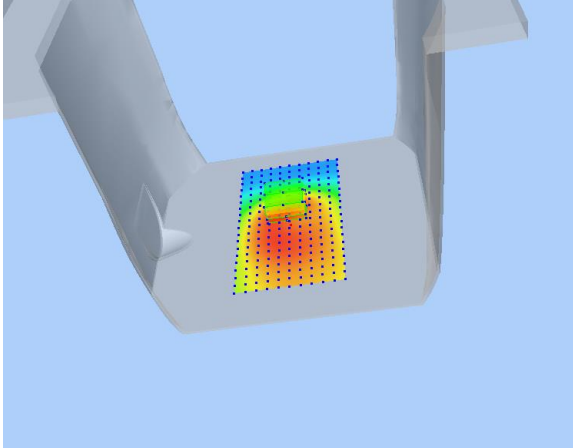
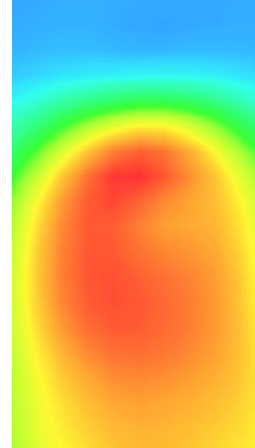
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.115
Variation (%)	-0.140
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.271	0.120	0.078	0.063	0.043



F. 3D Image

3D screen shot	Hot spot position
	

Plot 14

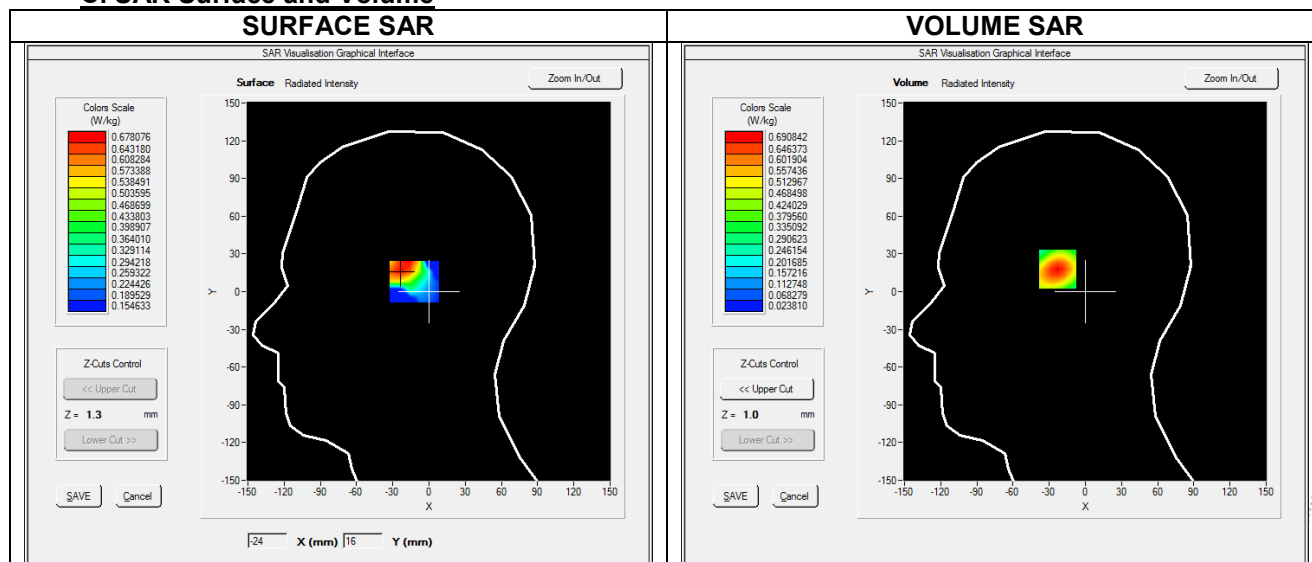
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1900.000
Relative permittivity (real part)	40.632
Relative permittivity (imaginary part)	13.230
Conductivity (S/m)	1.414

C. SAR Surface and Volume



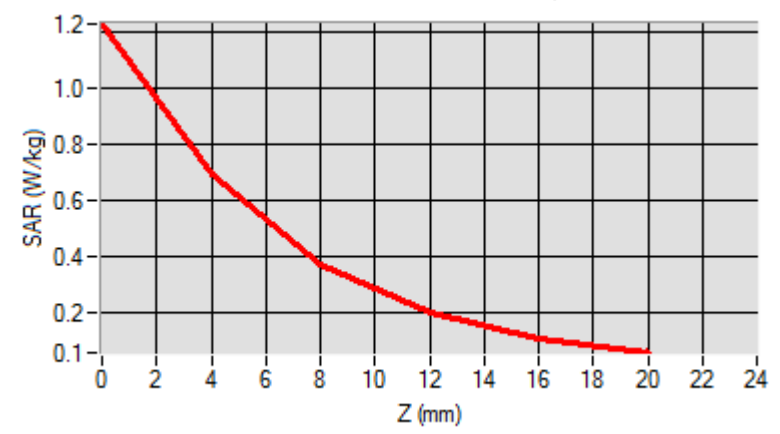
Maximum location: X=-22.00, Y=19.00 ; SAR Peak: 1.23 W/kg

D. SAR 1g & 10g

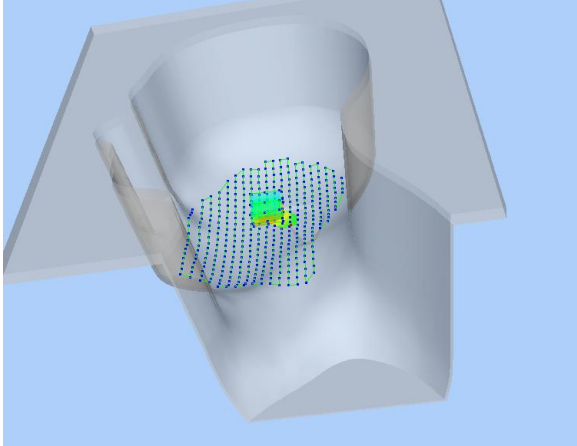
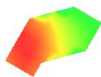
SAR 10g (W/Kg)	0.328
SAR 1g (W/Kg)	0.645
Variation (%)	-0.450
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.230	0.691	0.373	0.200	0.111



F. 3D Image

3D screen shot	Hot spot position
	

Plot 15

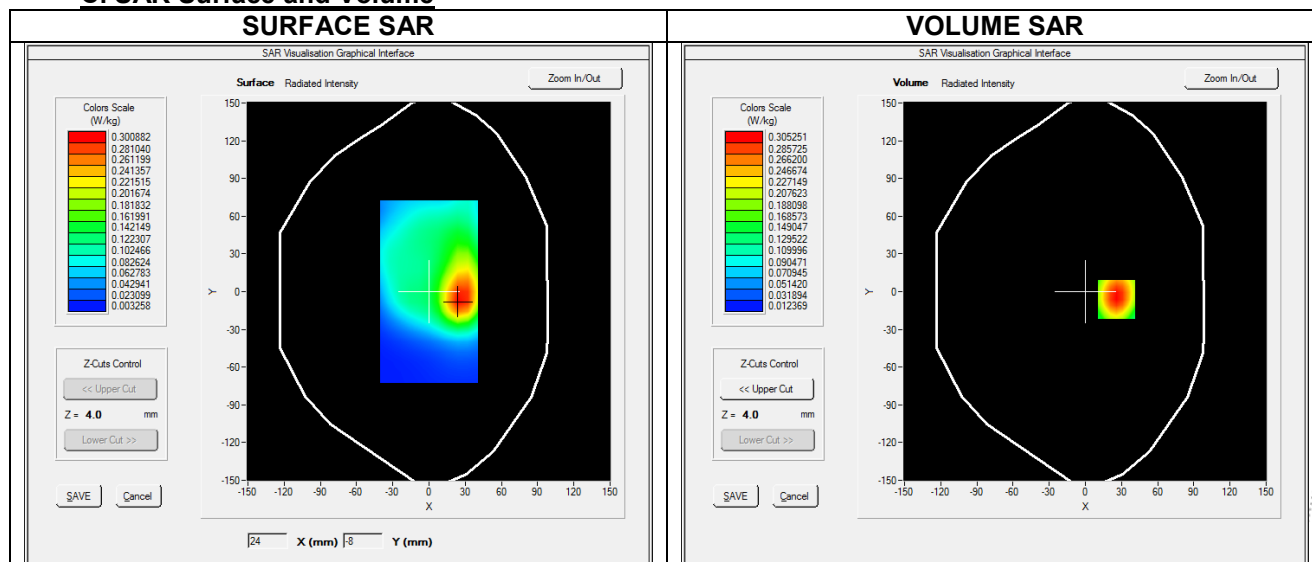
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1900.000
Relative permittivity (real part)	40.632
Relative permittivity (imaginary part)	13.230
Conductivity (S/m)	1.414

C. SAR Surface and Volume



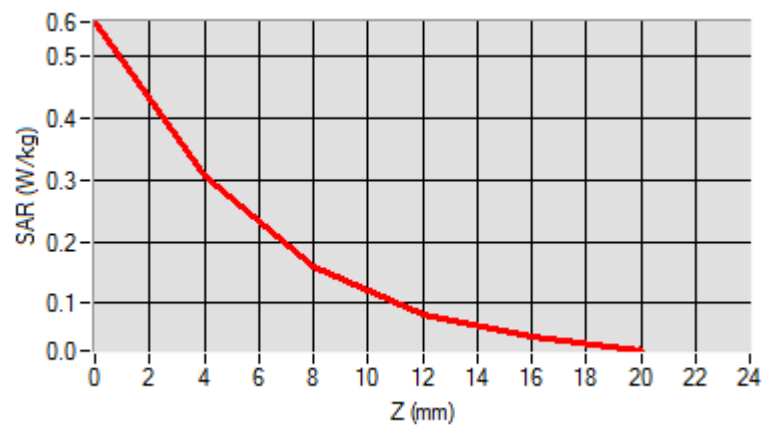
Maximum location: X=26.00, Y=-6.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

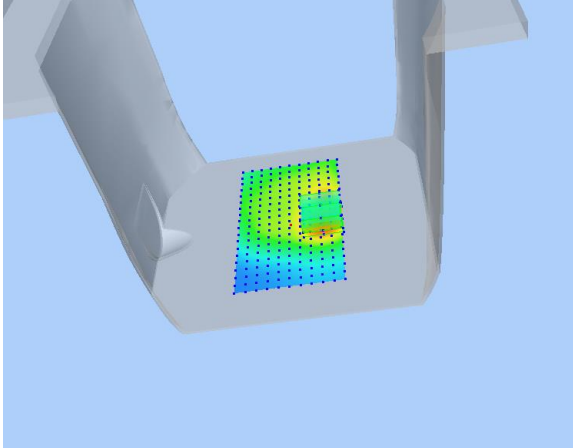
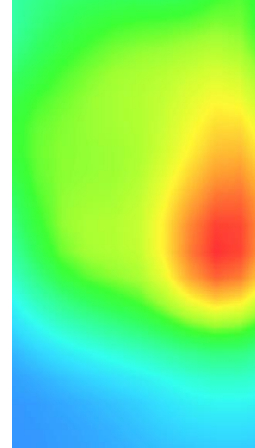
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.289
Variation (%)	-0.060
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.556	0.305	0.160	0.083	0.045



F. 3D Image

3D screen shot	Hot spot position
	

Plot 16

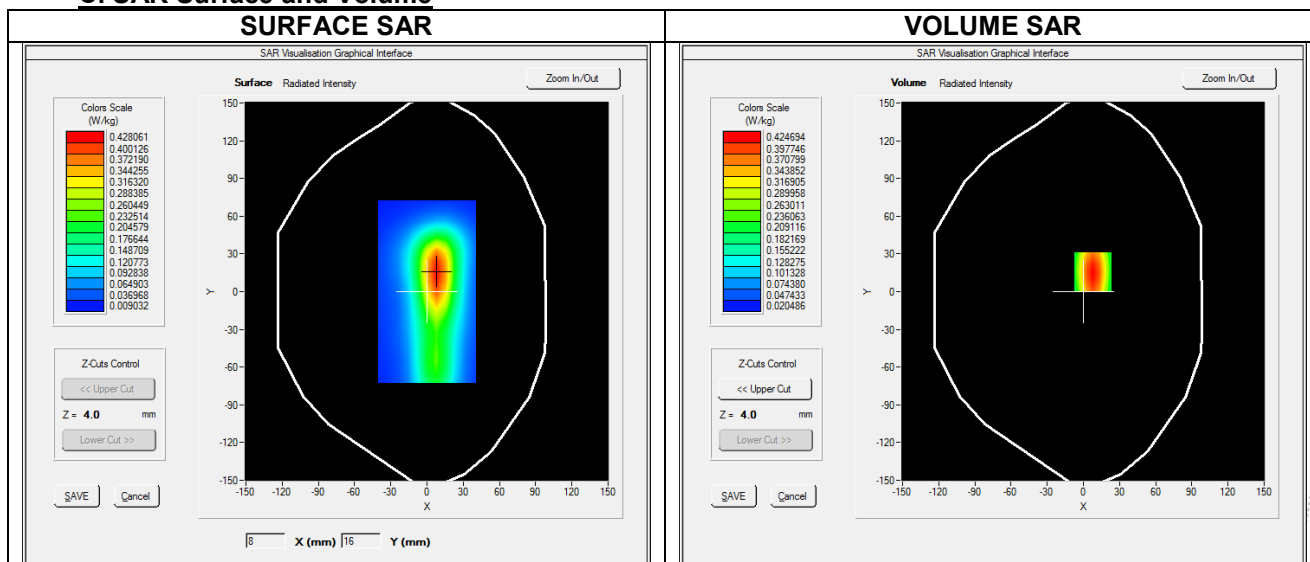
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1900.000
Relative permittivity (real part)	40.632
Relative permittivity (imaginary part)	13.230
Conductivity (S/m)	1.414

C. SAR Surface and Volume

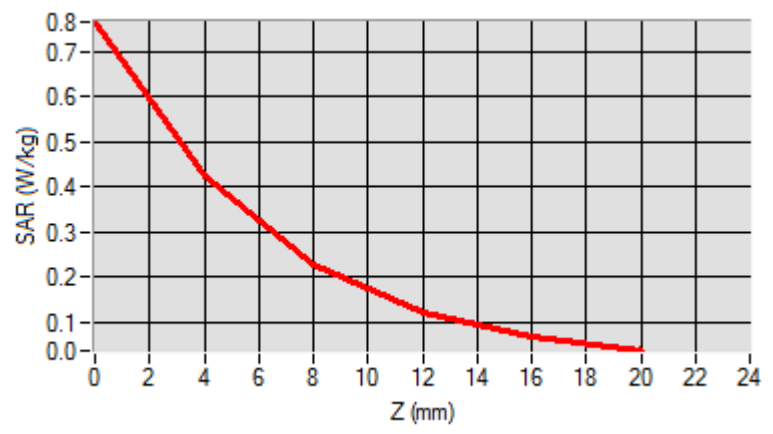


D. SAR 1g & 10g

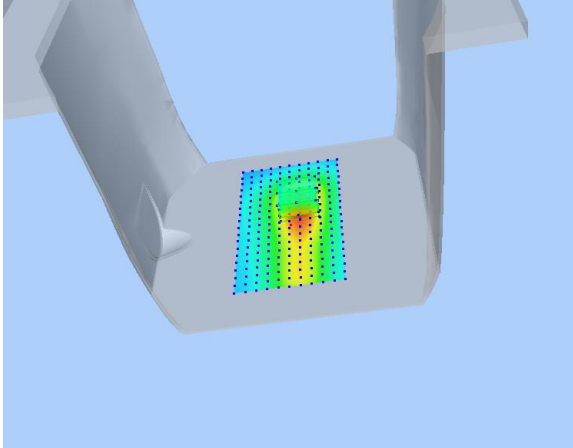
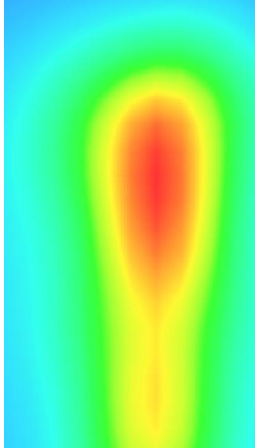
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.399
Variation (%)	-0.650
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.765	0.425	0.227	0.121	0.068



F. 3D Image

3D screen shot	Hot spot position
	

Plot 17

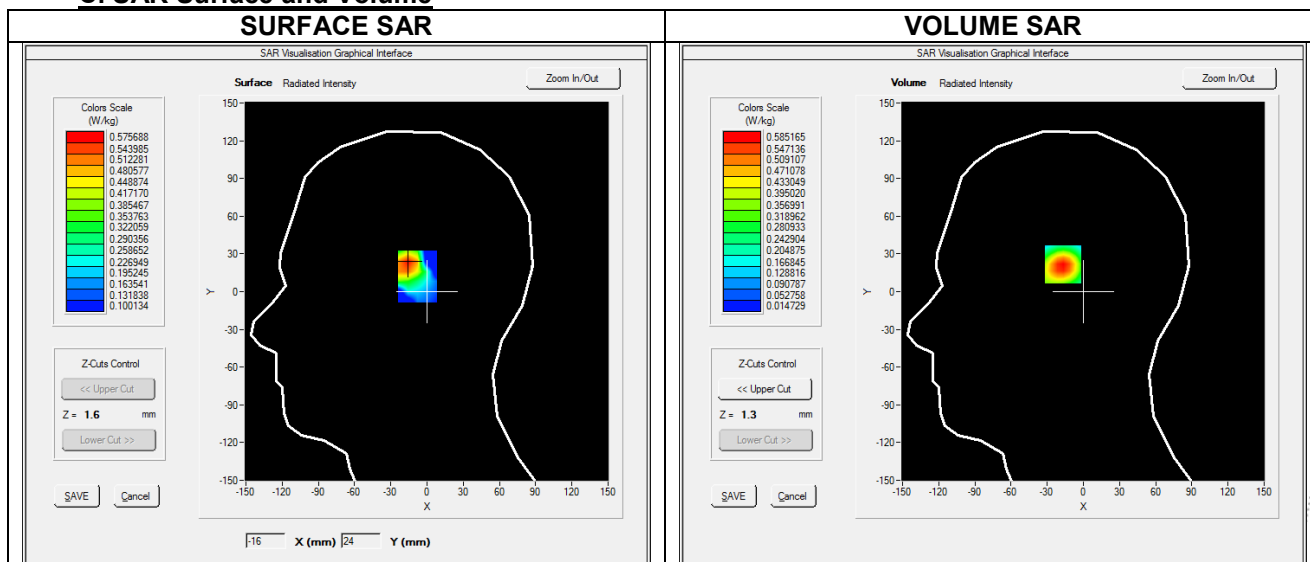
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1732.500
Relative permittivity (real part)	40.808
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.371

C. SAR Surface and Volume

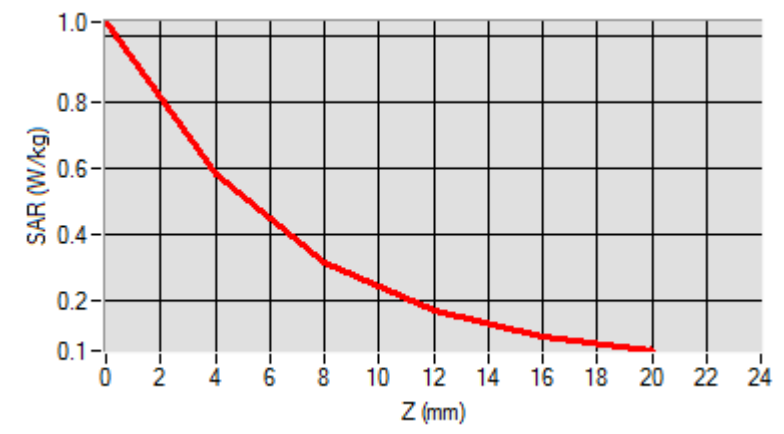


D. SAR 1g & 10g

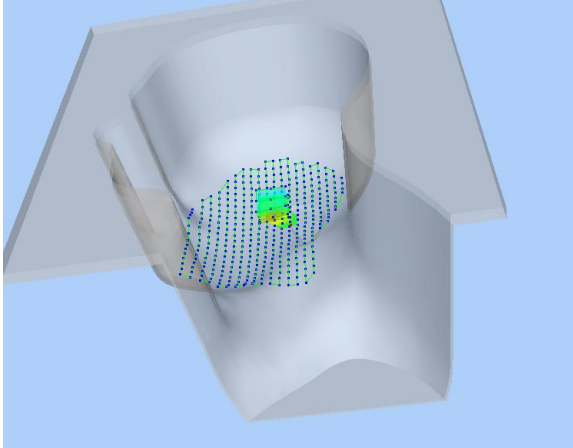
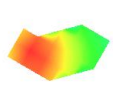
SAR 10g (W/Kg)	0.267
SAR 1g (W/Kg)	0.542
Variation (%)	0.110
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.043	0.585	0.316	0.170	0.095



F. 3D Image

3D screen shot	Hot spot position
	

Plot 18

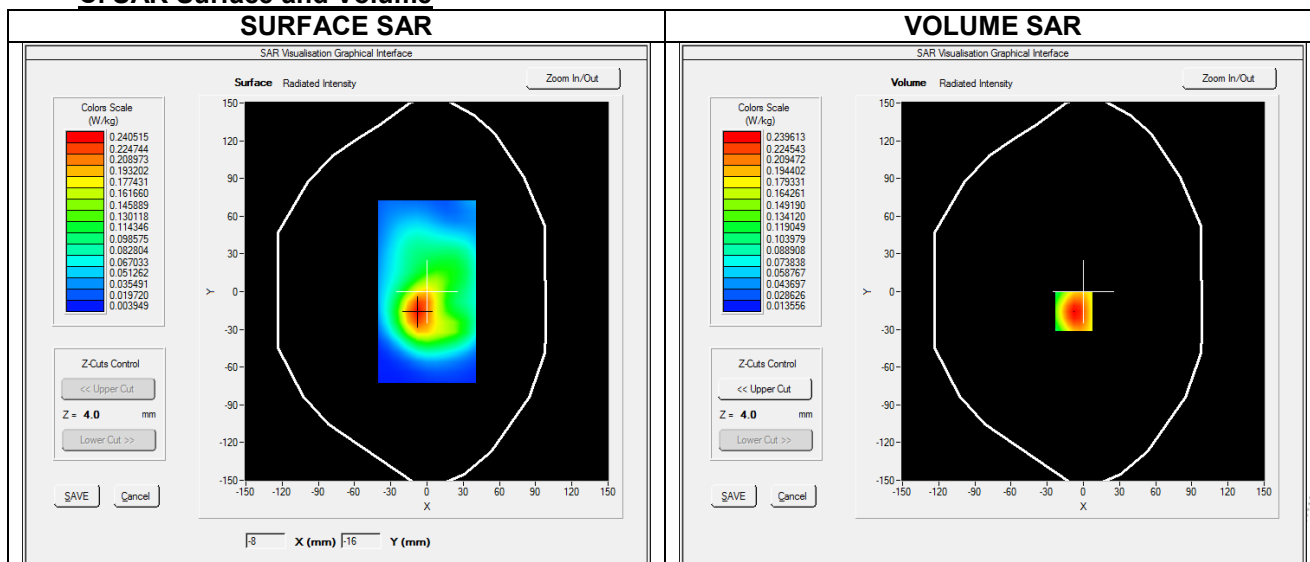
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1732.500
Relative permittivity (real part)	40.808
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.371

C. SAR Surface and Volume



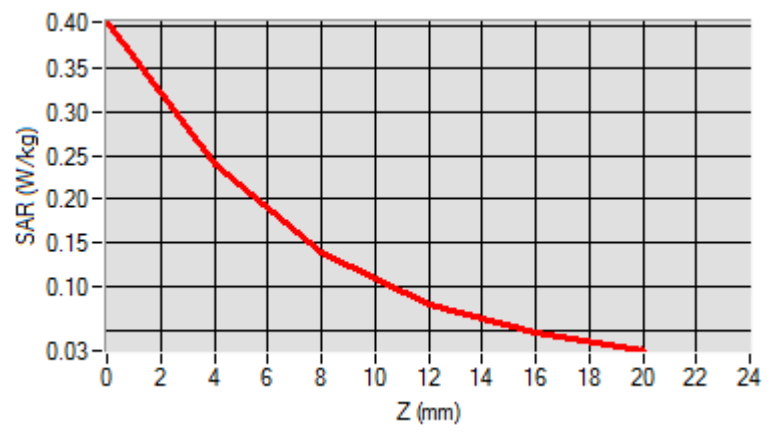
Maximum location: X=-8.00, Y=-16.00 ; SAR Peak: 0.41 W/kg

D. SAR 1g & 10g

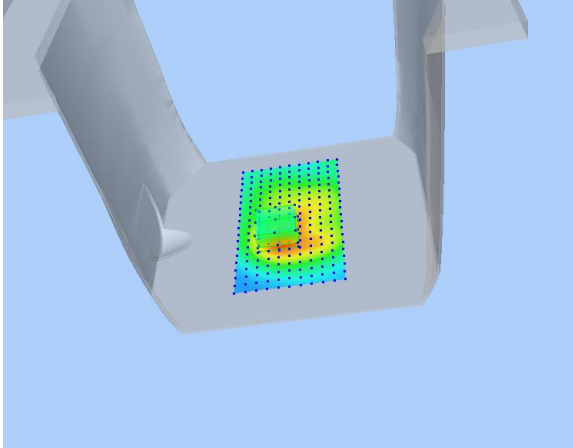
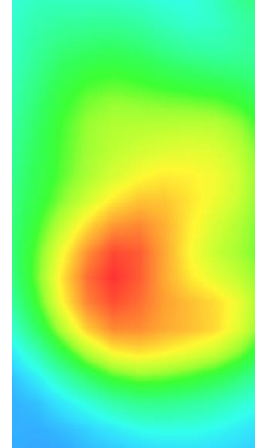
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.226
Variation (%)	-0.780
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.404	0.240	0.138	0.080	0.047



F. 3D Image

3D screen shot	Hot spot position
	

Plot 19

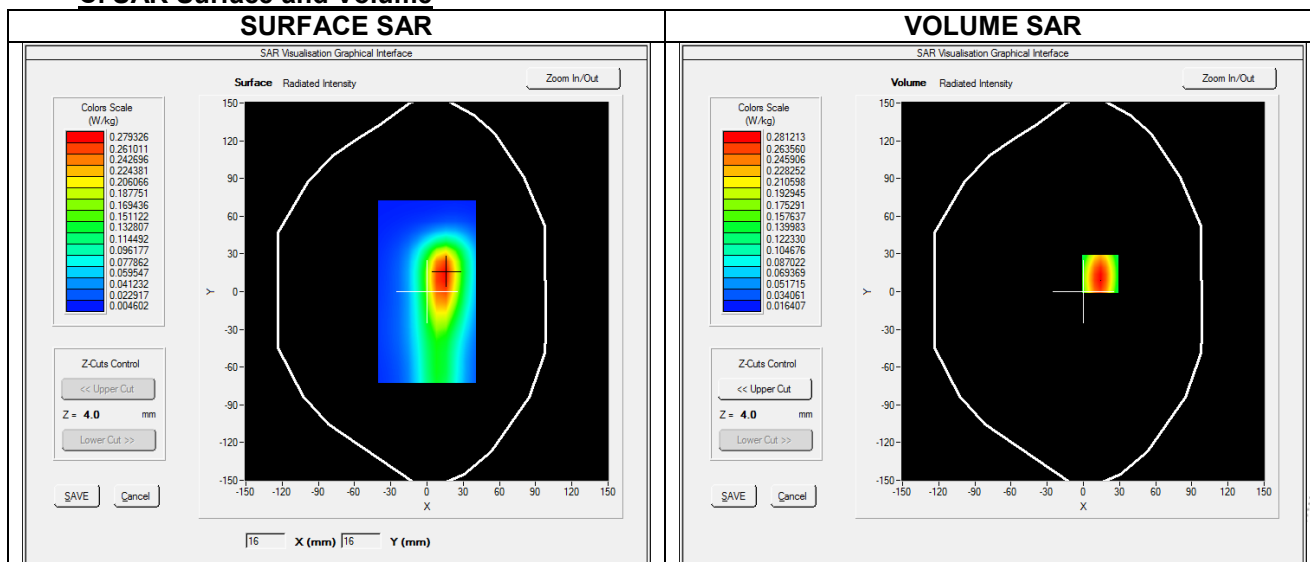
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1732.500
Relative permittivity (real part)	40.808
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.371

C. SAR Surface and Volume

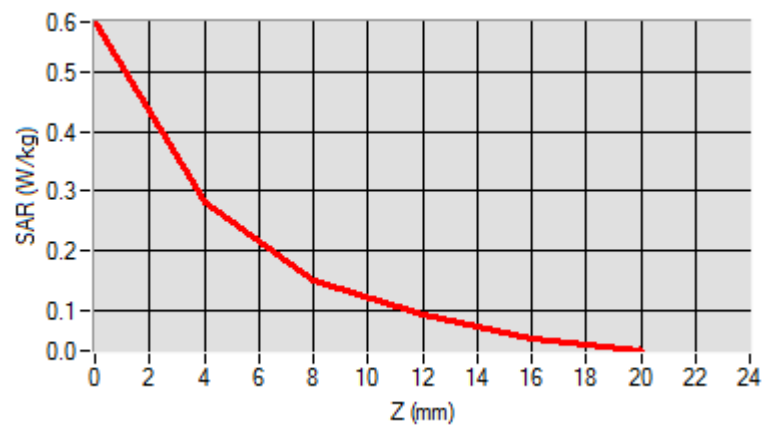


D. SAR 1g & 10g

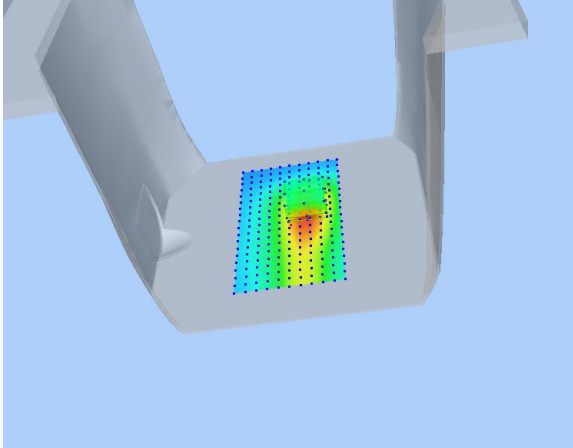
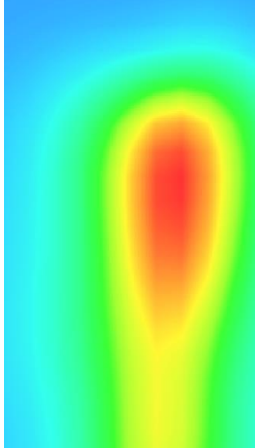
SAR 10g (W/Kg)	0.140
SAR 1g (W/Kg)	0.264
Variation (%)	-1.270
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.584	0.281	0.151	0.091	0.051



F. 3D Image

3D screen shot	Hot spot position
	

Plot 20

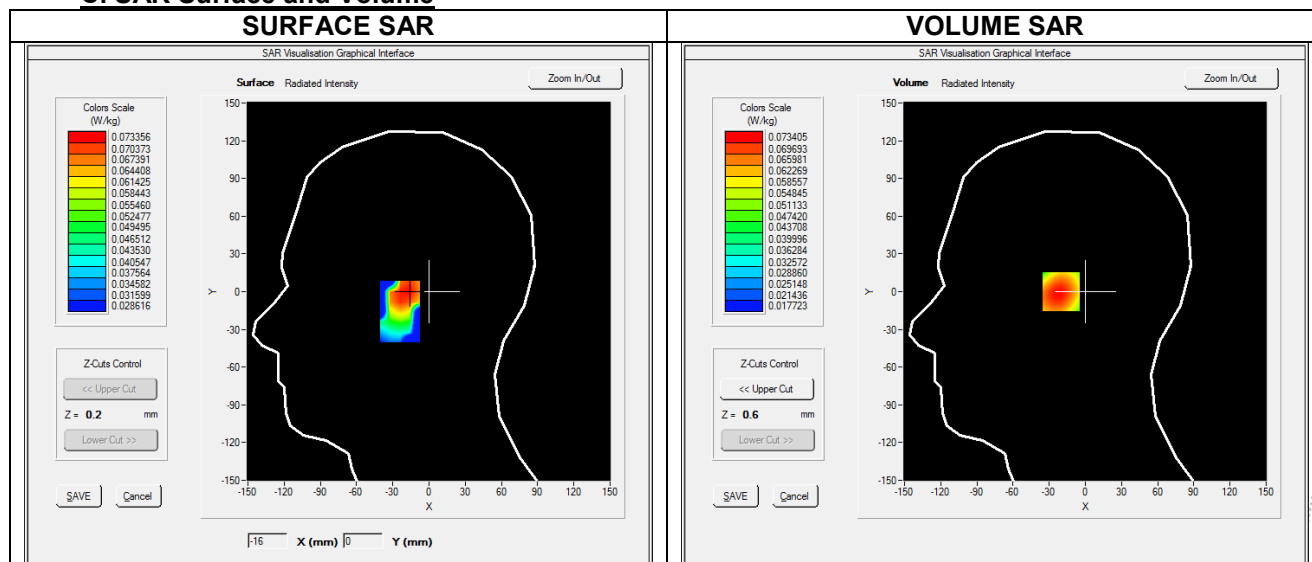
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	836.500
Relative permittivity (real part)	42.702
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.923

C. SAR Surface and Volume



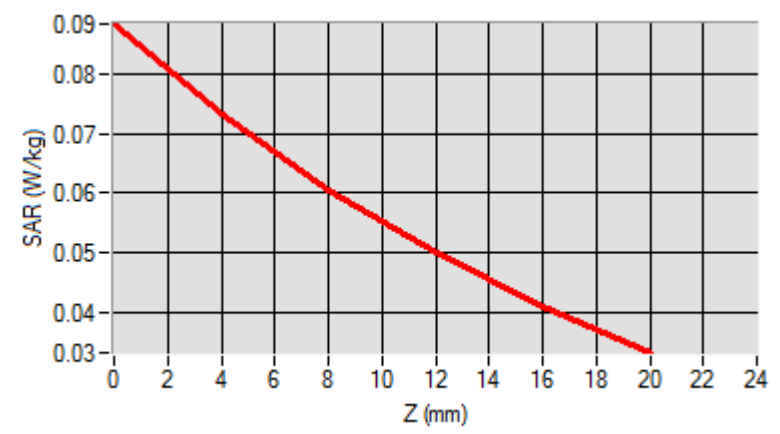
Maximum location: X=-18.00, Y=0.00 ; SAR Peak: 0.09 W/kg

D. SAR 1g & 10g

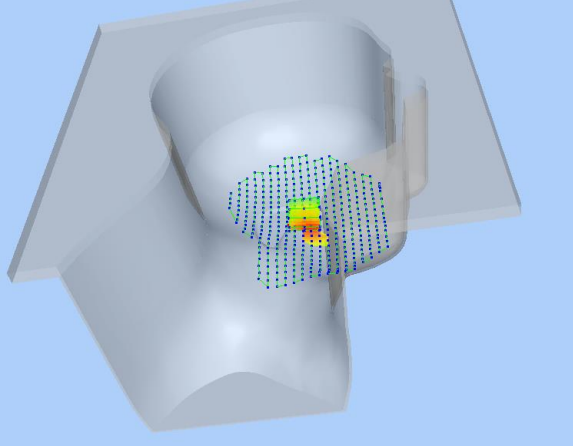
SAR 10g (W/Kg)	0.052
SAR 1g (W/Kg)	0.071
Variation (%)	-1.010
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

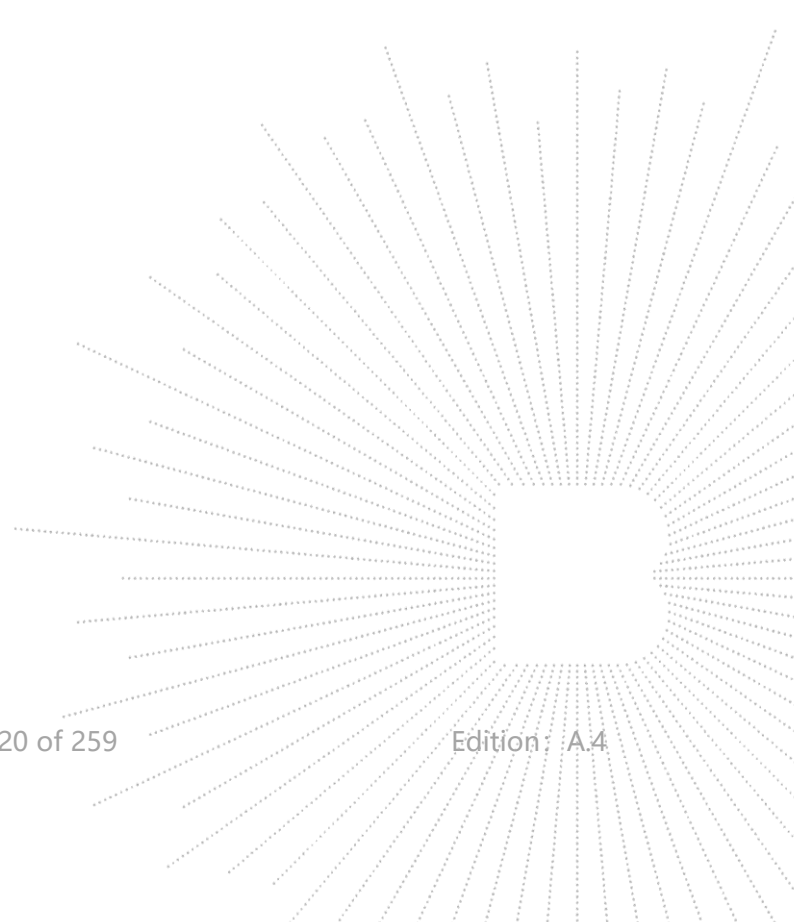
E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.089	0.073	0.061	0.050	0.041



F. 3D Image

3D screen shot	Hot spot position
	



Plot 21

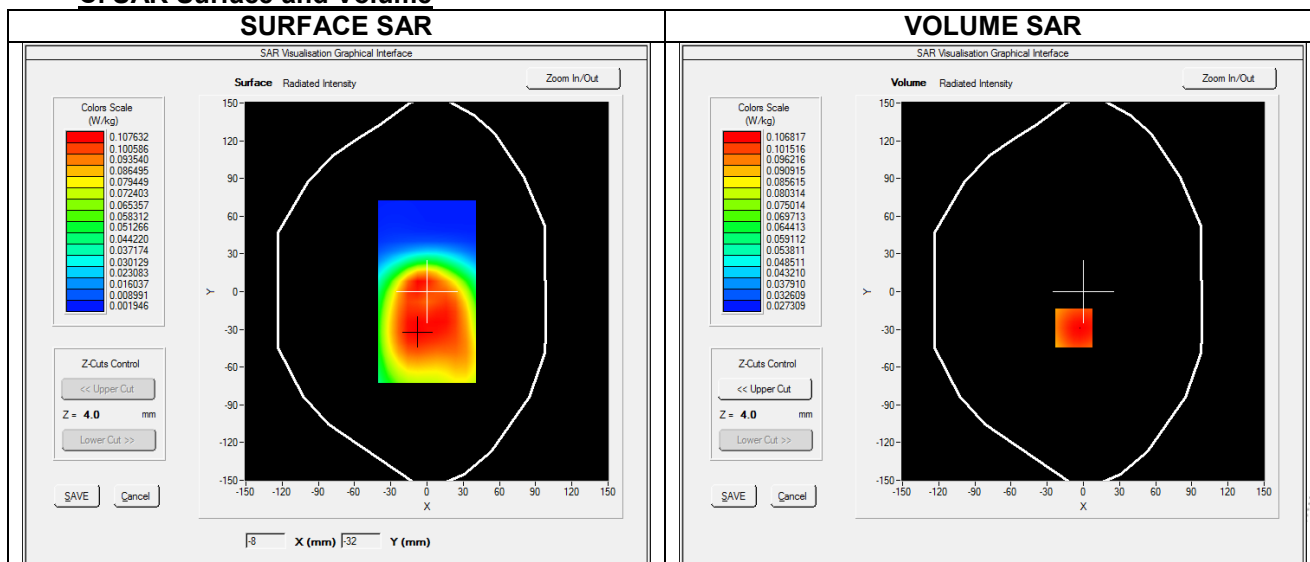
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	836.500
Relative permittivity (real part)	42.702
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.923

C. SAR Surface and Volume



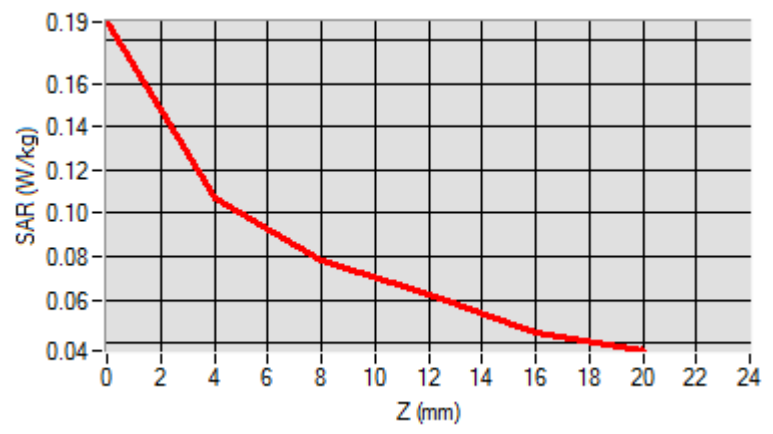
Maximum location: X=-8.00, Y=-29.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

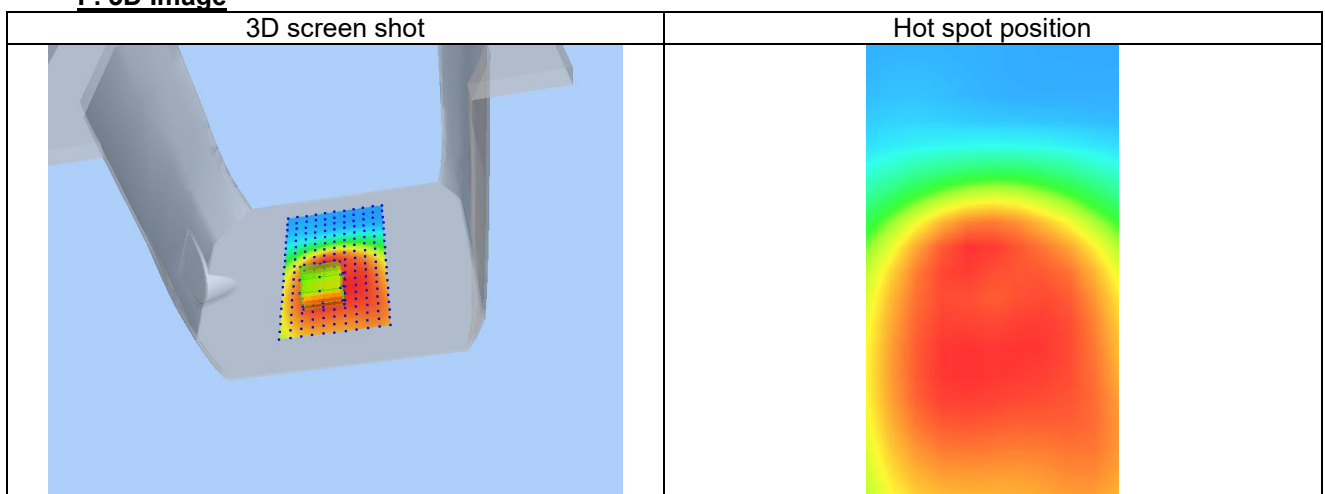
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.103
Variation (%)	-2.430
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.189	0.107	0.078	0.062	0.045



F. 3D Image



Plot 22

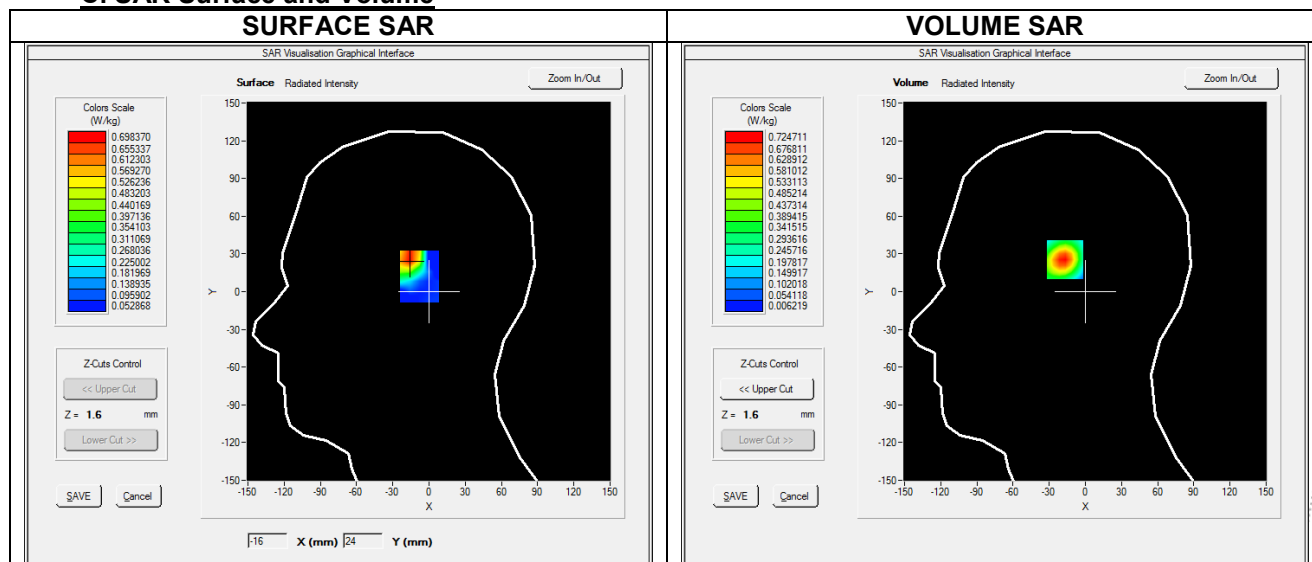
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.63
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Tilt
Band	LTE band 7
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	39.528
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.926

C. SAR Surface and Volume



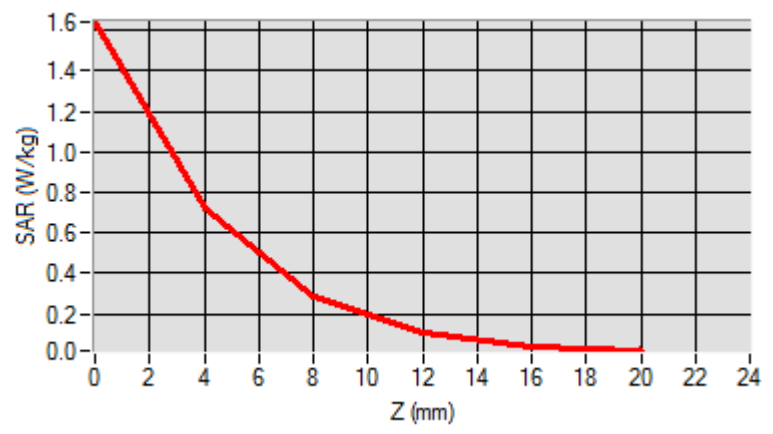
Maximum location: X=-16.00, Y=27.00 ; SAR Peak: 1.64 W/kg

D. SAR 1g & 10g

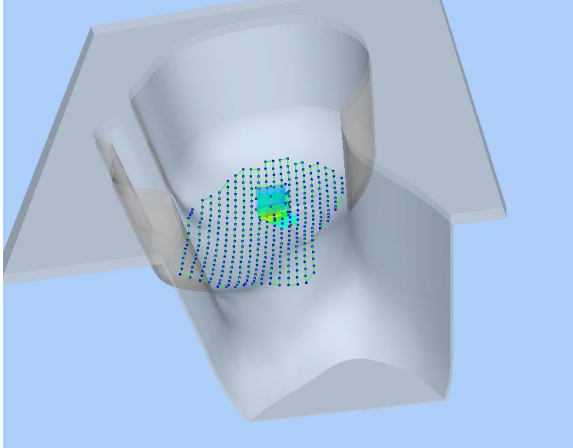
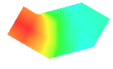
SAR 10g (W/Kg)	0.286
SAR 1g (W/Kg)	0.685
Variation (%)	-0.430
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.642	0.725	0.281	0.102	0.040



F. 3D Image

3D screen shot	Hot spot position
	

Plot 23

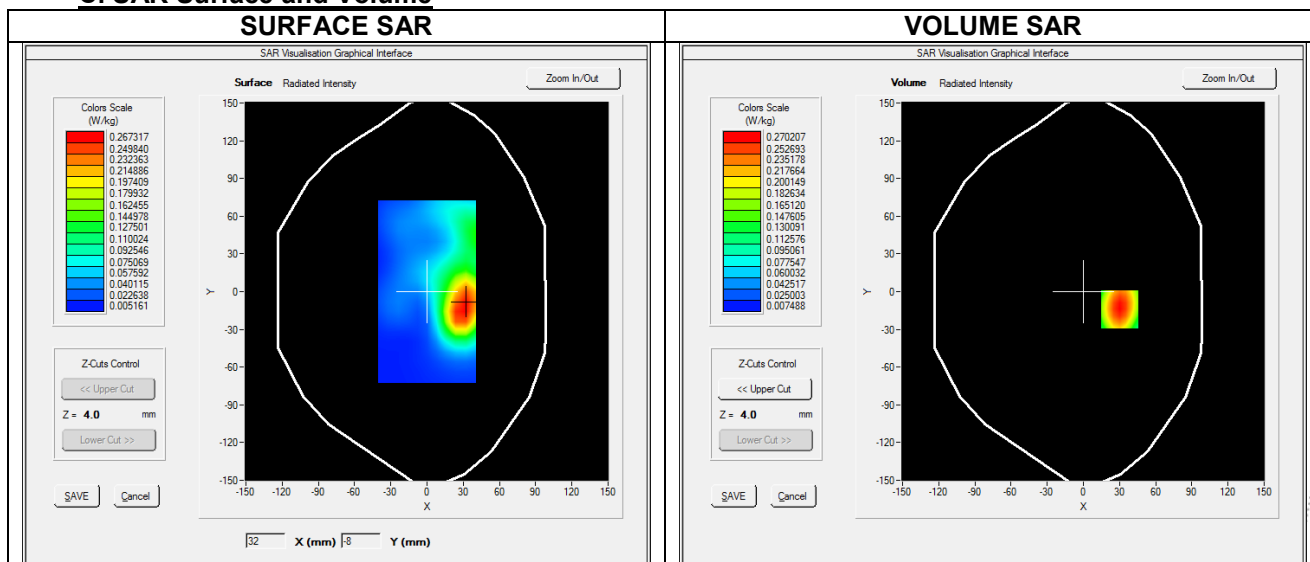
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.63
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	39.528
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.926

C. SAR Surface and Volume



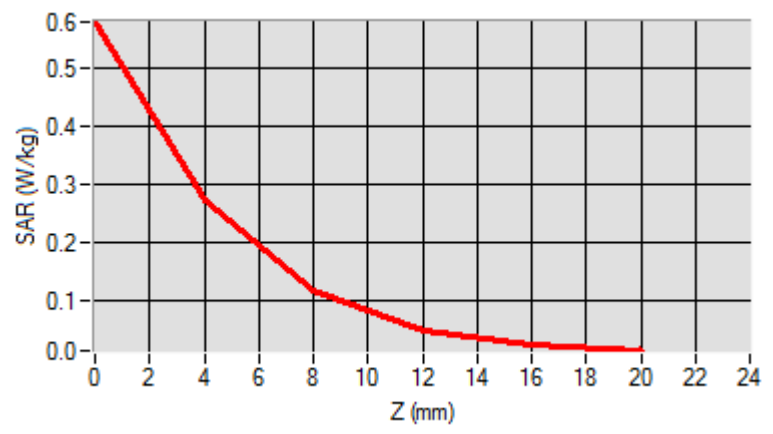
Maximum location: X=30.00, Y=-14.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

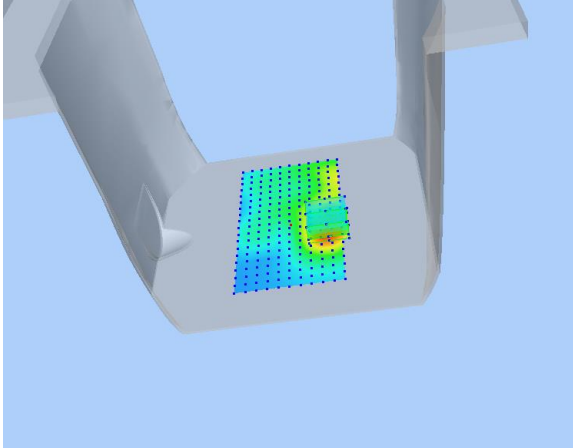
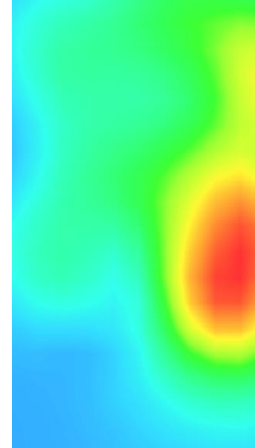
SAR 10g (W/Kg)	0.123
SAR 1g (W/Kg)	0.261
Variation (%)	-0.510
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.580	0.270	0.115	0.048	0.023



F. 3D Image

3D screen shot	Hot spot position
	

Plot 24

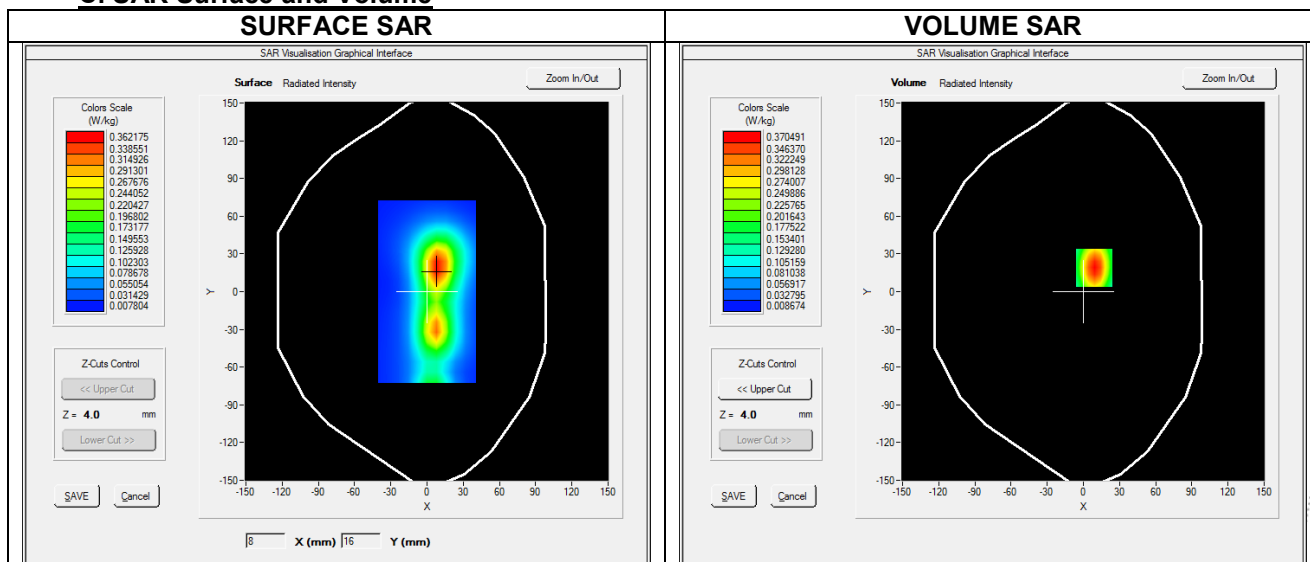
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.63
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Middle
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	39.528
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.926

C. SAR Surface and Volume



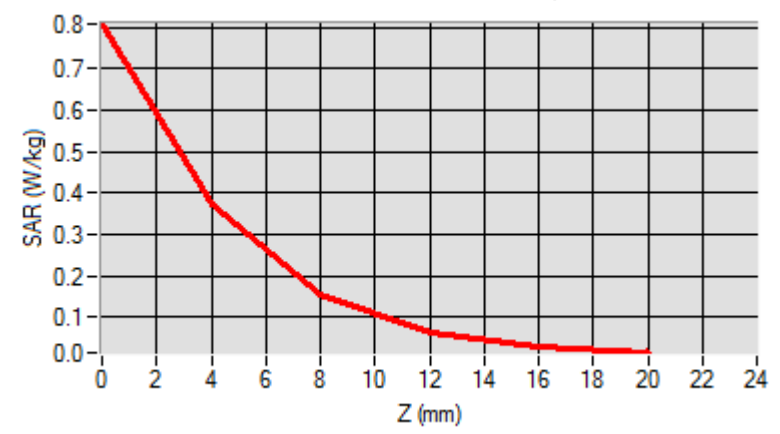
Maximum location: X=9.00, Y=19.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

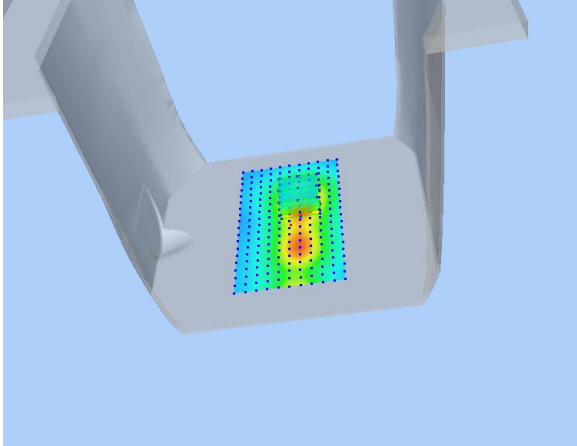
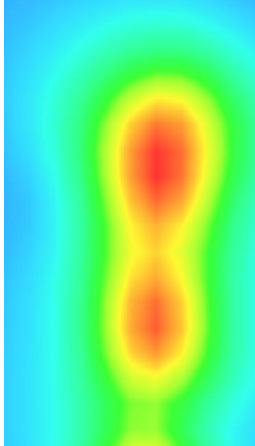
SAR 10g (W/Kg)	0.159
SAR 1g (W/Kg)	0.353
Variation (%)	-0.620
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.808	0.370	0.154	0.062	0.029



F. 3D Image

3D screen shot	Hot spot position
	

Plot 25

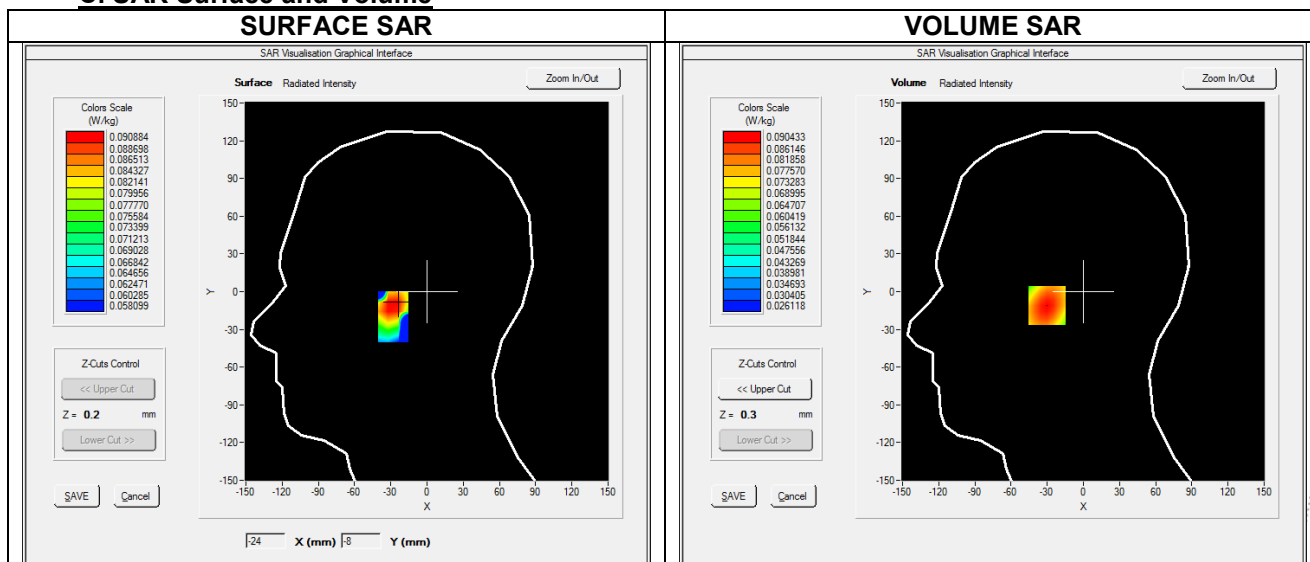
A. Experimental conditions.

Probe	SN 25/22 EPGO373
ConvF	2.96
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	LTE band 17
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	711.000
Relative permittivity (real part)	42.988
Relative permittivity (imaginary part)	23.107
Conductivity (S/m)	0.865

C. SAR Surface and Volume

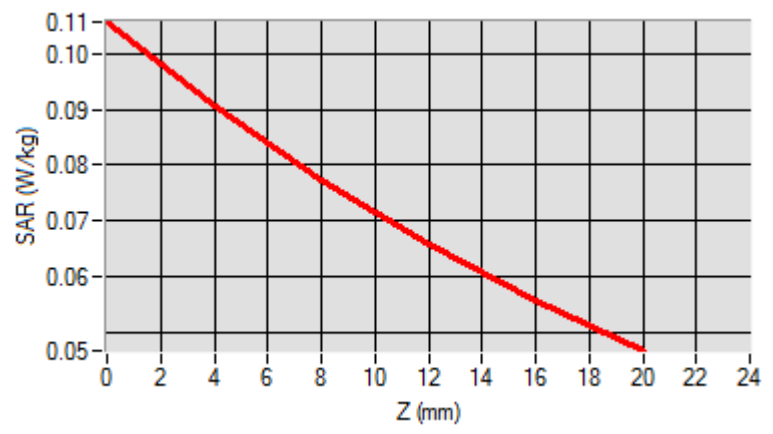


D. SAR 1g & 10g

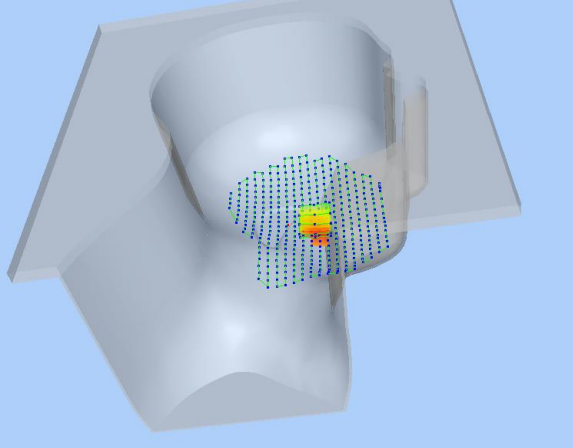
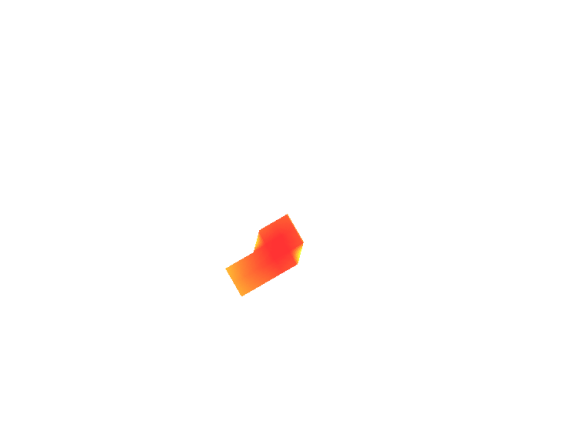
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.089
Variation (%)	0.030
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.106	0.090	0.077	0.066	0.056



F. 3D Image

3D screen shot	Hot spot position
	

Plot 26

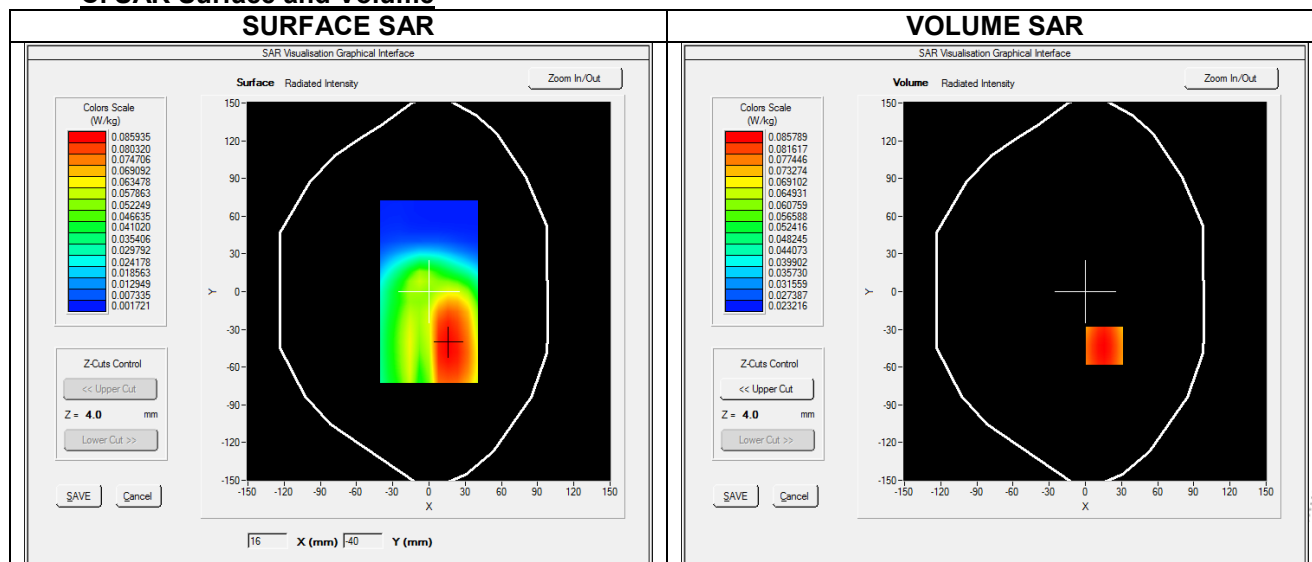
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.96
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels	High
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	711.000
Relative permittivity (real part)	42.988
Relative permittivity (imaginary part)	23.107
Conductivity (S/m)	0.865

C. SAR Surface and Volume

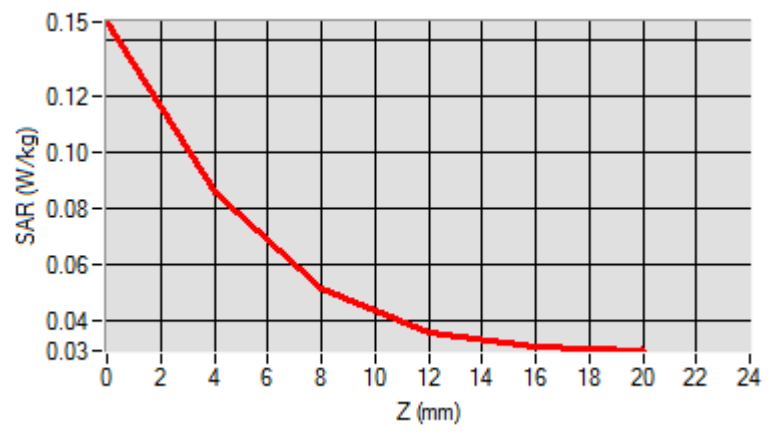


D. SAR 1g & 10g

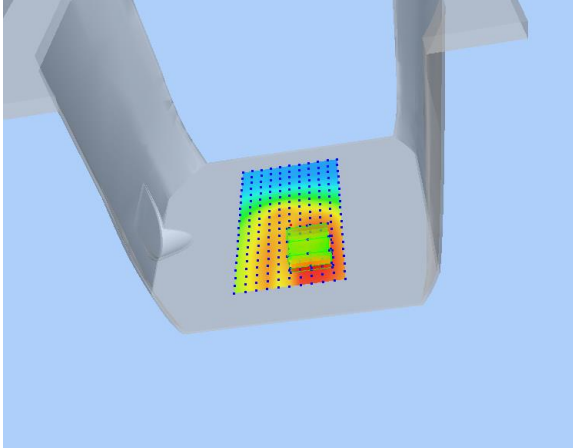
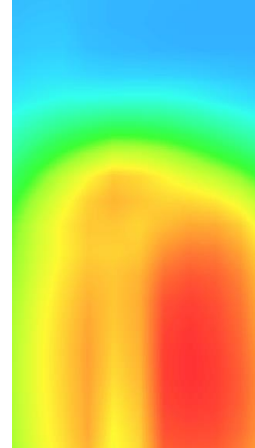
SAR 10g (W/Kg)	0.058
SAR 1g (W/Kg)	0.090
Variation (%)	-4.520
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.147	0.086	0.052	0.036	0.030



F. 3D Image

3D screen shot	Hot spot position
	

Plot 27

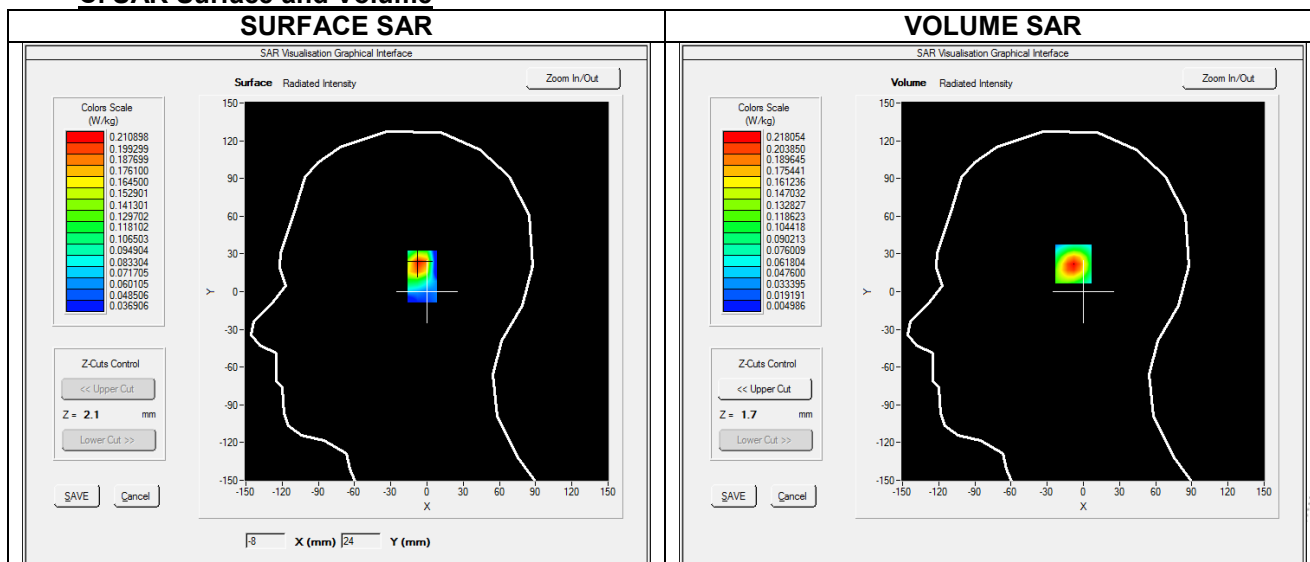
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.911
Relative permittivity (imaginary part)	13.271
Conductivity (S/m)	1.836

C. SAR Surface and Volume



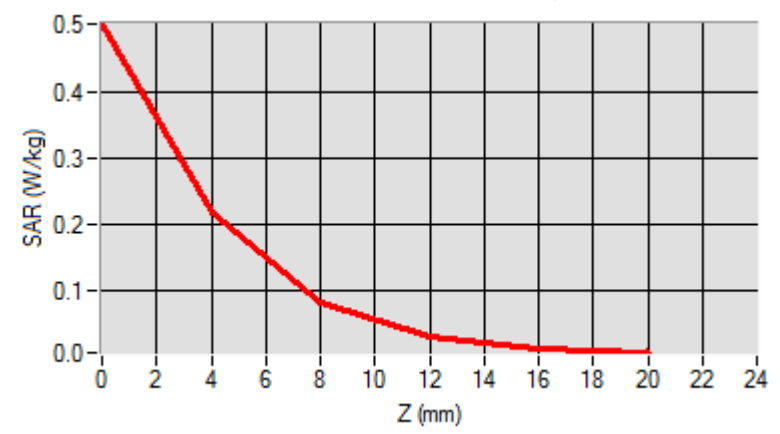
Maximum location: X=-7.00, Y=23.00 ; SAR Peak: 0.50 W/kg

D. SAR 1g & 10g

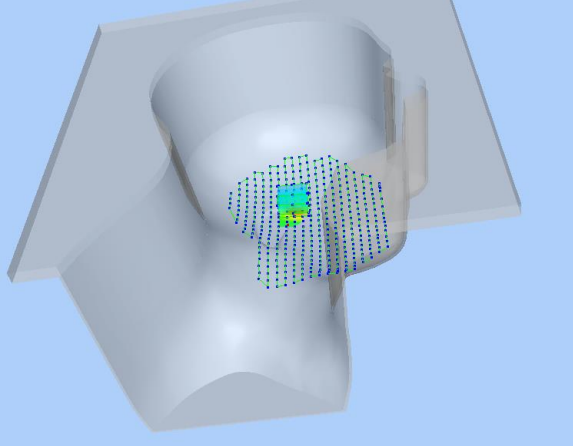
SAR 10g (W/Kg)	0.087
SAR 1g (W/Kg)	0.206
Variation (%)	-0.070
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.501	0.218	0.084	0.031	0.014



F. 3D Image

3D screen shot	Hot spot position
	

Plot 28

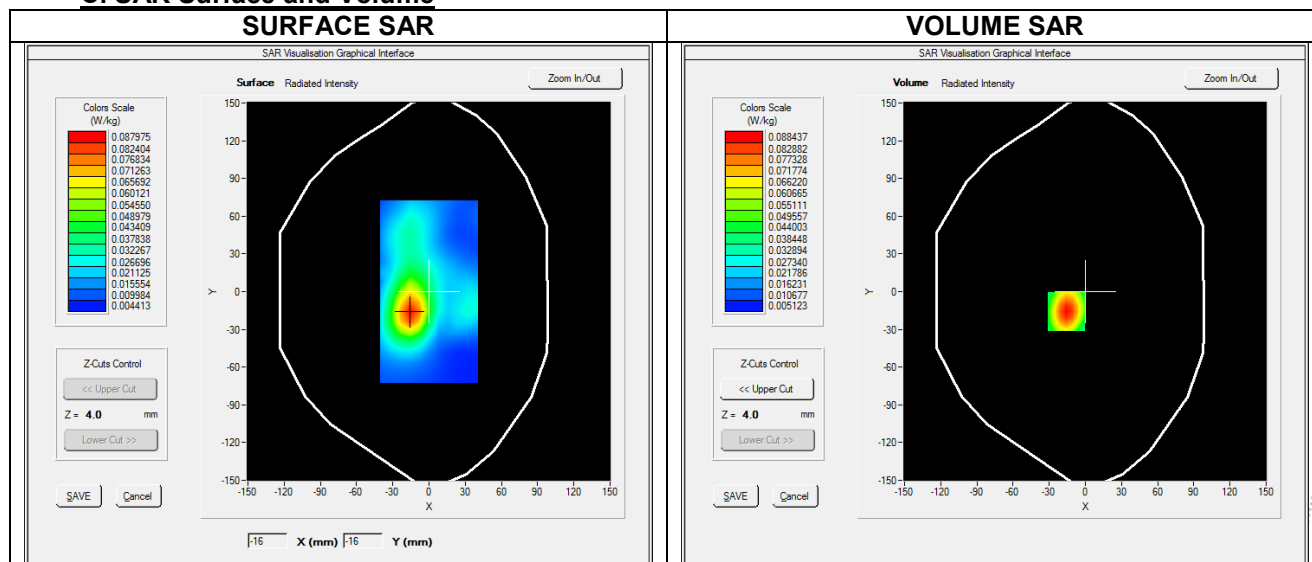
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x8,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	High
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.911
Relative permittivity (imaginary part)	13.271
Conductivity (S/m)	1.836

C. SAR Surface and Volume



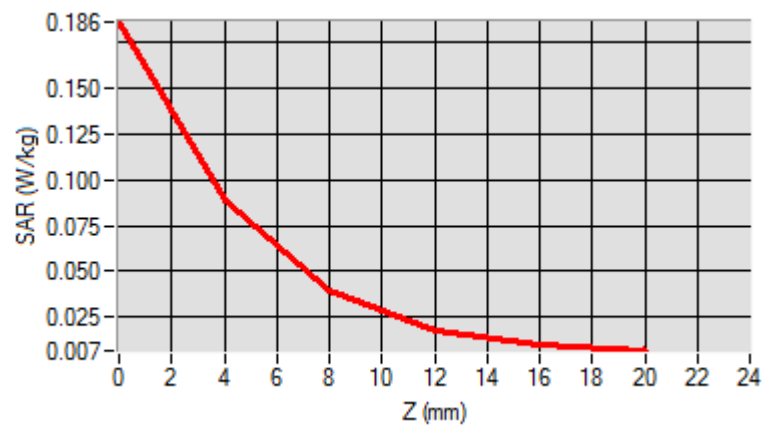
Maximum location: X=-16.00, Y=-16.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

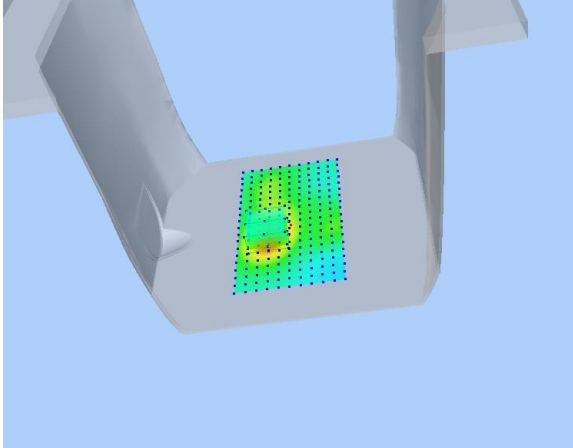
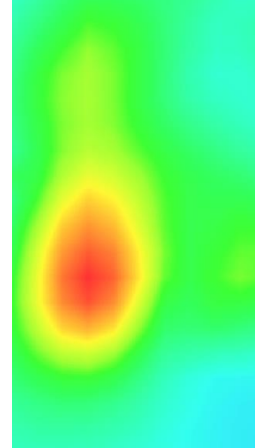
SAR 10g (W/Kg)	0.040
SAR 1g (W/Kg)	0.085
Variation (%)	-0.460
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.186	0.088	0.039	0.018	0.010



F. 3D Image

3D screen shot	Hot spot position
	

Plot 29

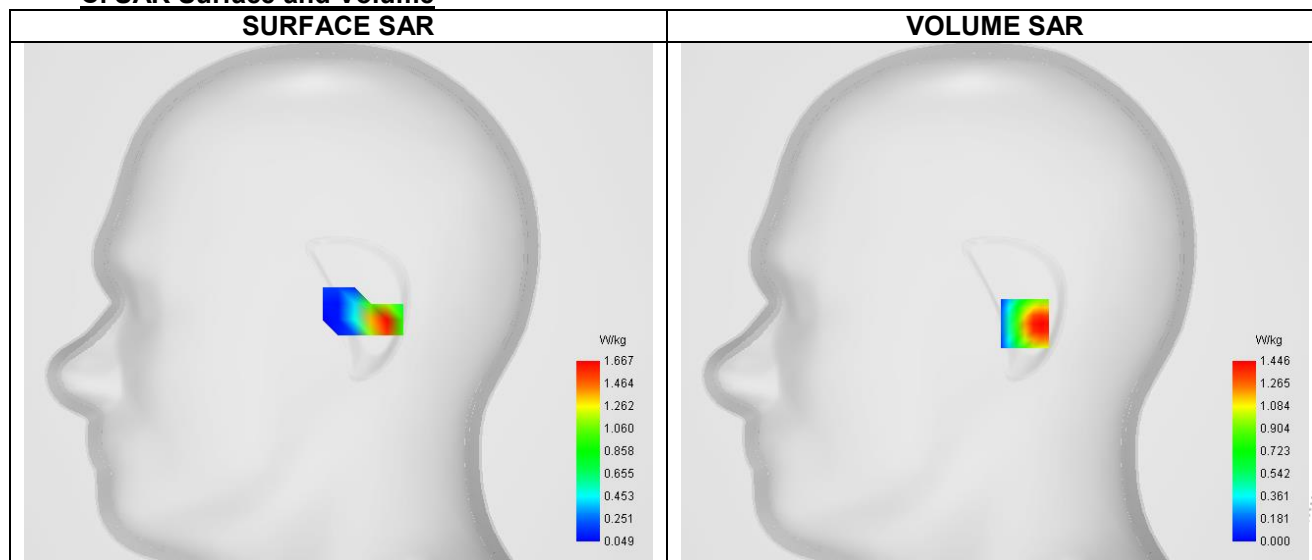
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.72
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	IEEE 802.11a U-NII-1
Channels	High
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	36.852
Relative permittivity (imaginary part)	16.144
Conductivity (S/m)	4.584

C. SAR Surface and Volume



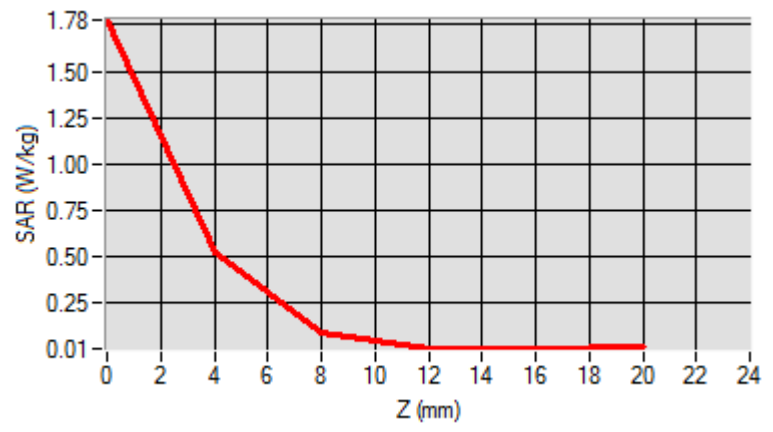
Maximum location: X=15.00, Y=-10.00 ; SAR Peak: 1.76 W/kg

D. SAR 1g & 10g

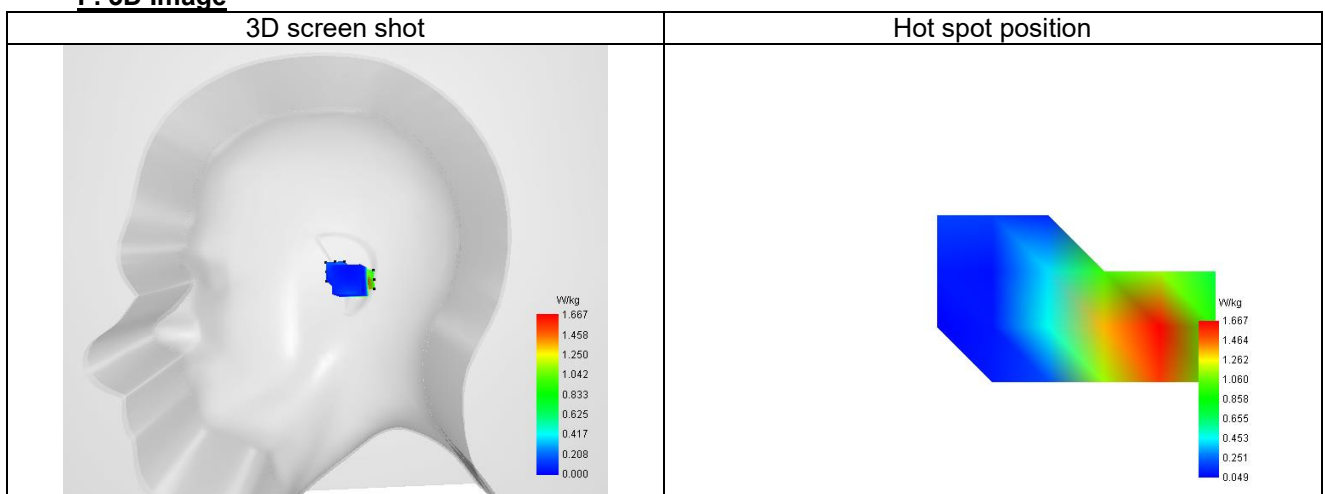
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.558
Variation (%)	-2.600
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.777	1.212	0.508	0.261	0.097	0.038	0.011	0.012	0.007



F. 3D Image



Plot 30

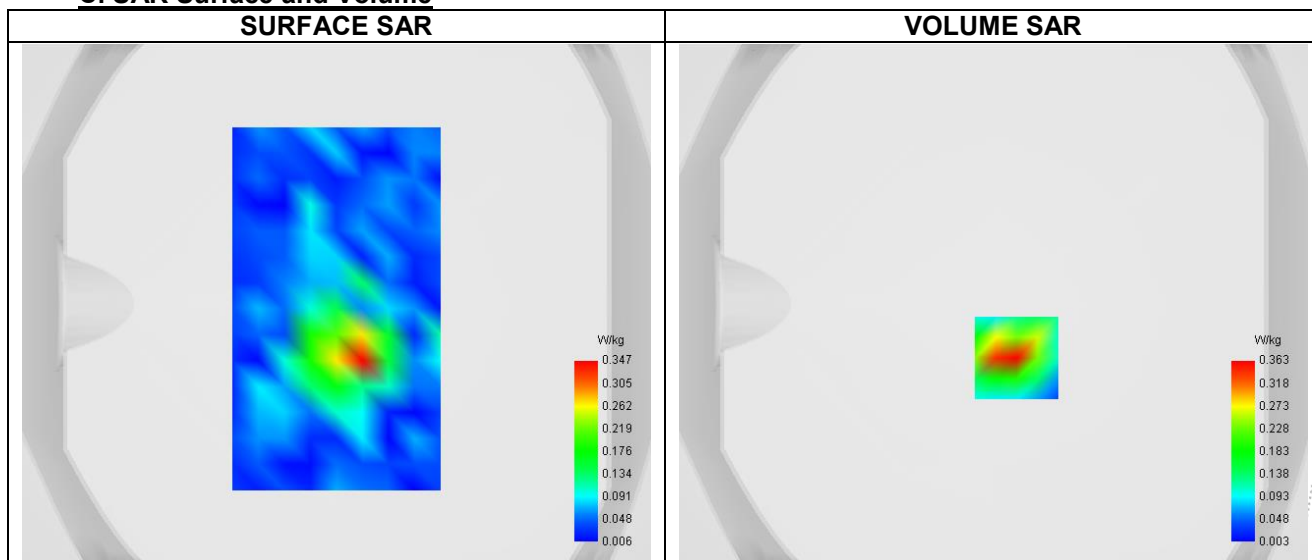
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.72
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a U-NII-1
Channels	High
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	36.852
Relative permittivity (imaginary part)	16.144
Conductivity (S/m)	4.584

C. SAR Surface and Volume



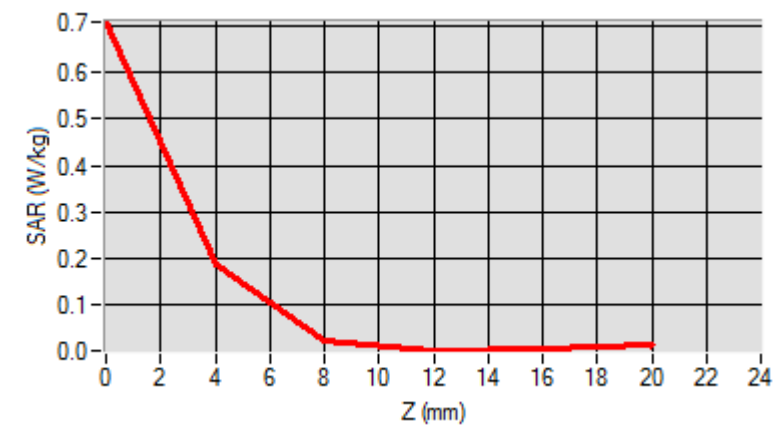
Maximum location: X=9.00, Y=-21.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

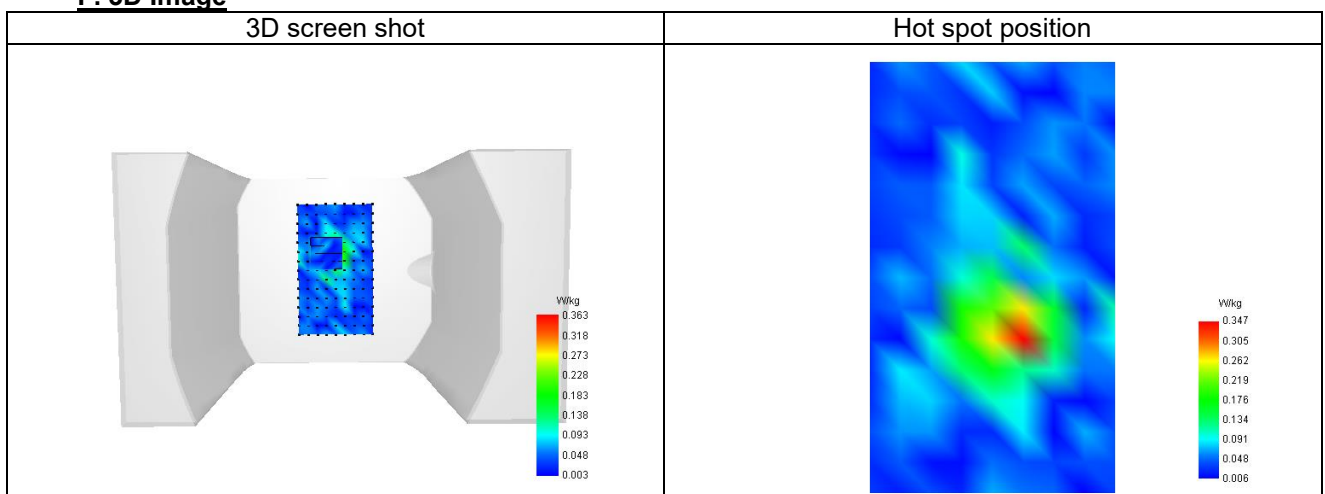
SAR 10g (W/Kg)	0.087
SAR 1g (W/Kg)	0.218
Variation (%)	-3.780
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.707	0.415	0.190	0.102	0.026	0.014	0.006	0.005	0.006



F. 3D Image



Plot 31

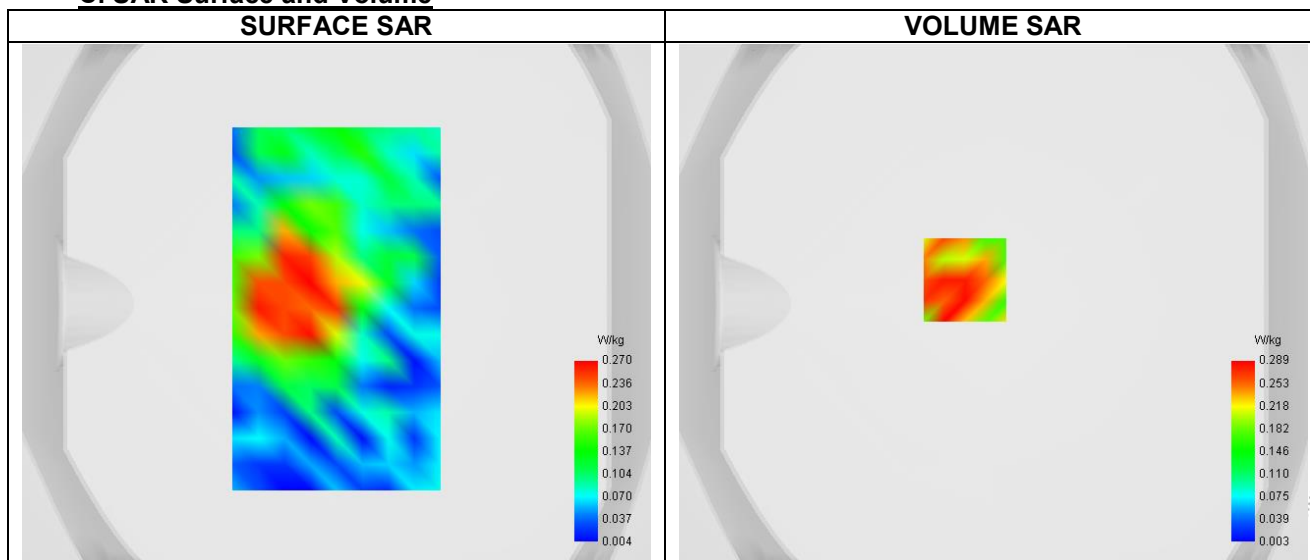
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.72
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a U-NII-1
Channels	High
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	36.852
Relative permittivity (imaginary part)	16.144
Conductivity (S/m)	4.584

C. SAR Surface and Volume



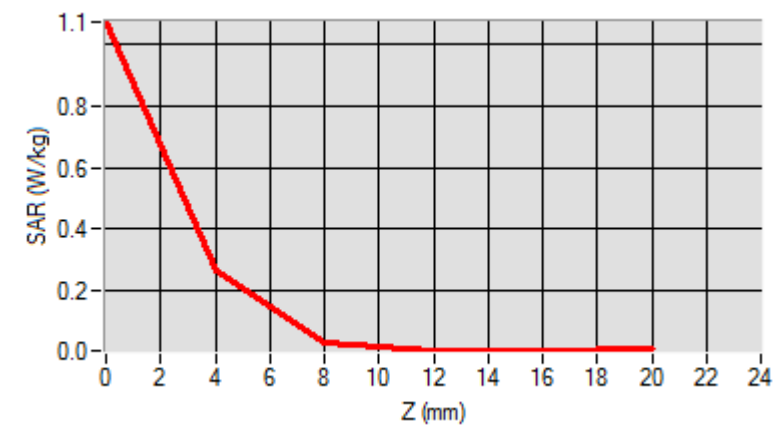
Maximum location: X=-11.00, Y=9.00; SAR Peak: 0.98 W/kg

D. SAR 1g & 10g

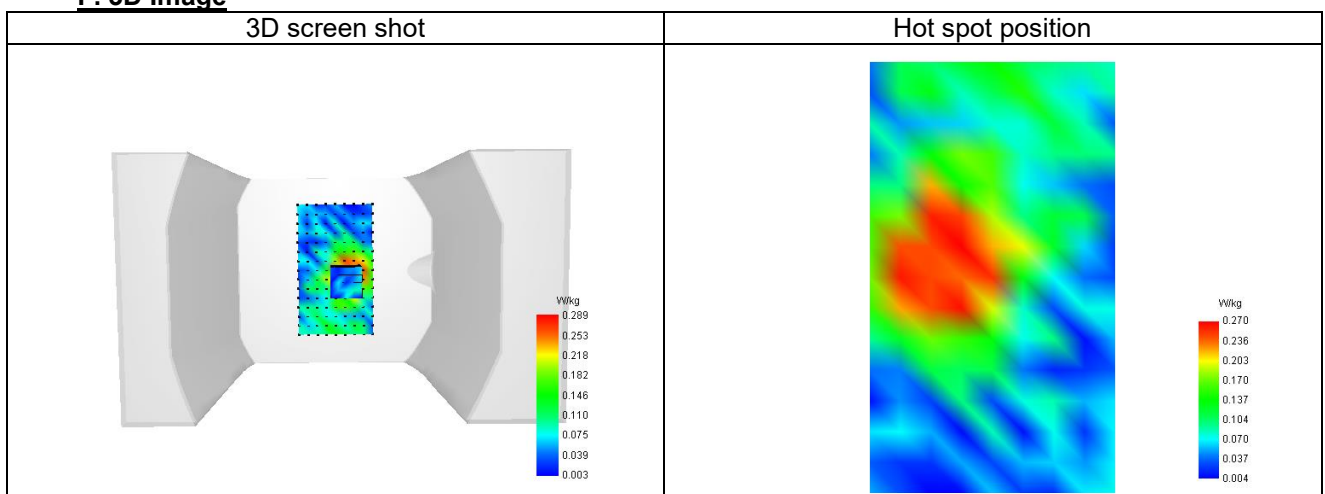
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.310
Variation (%)	-1.460
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.073	0.682	0.266	0.178	0.028	0.008	0.003	0.003	0.005



F. 3D Image



Plot 32

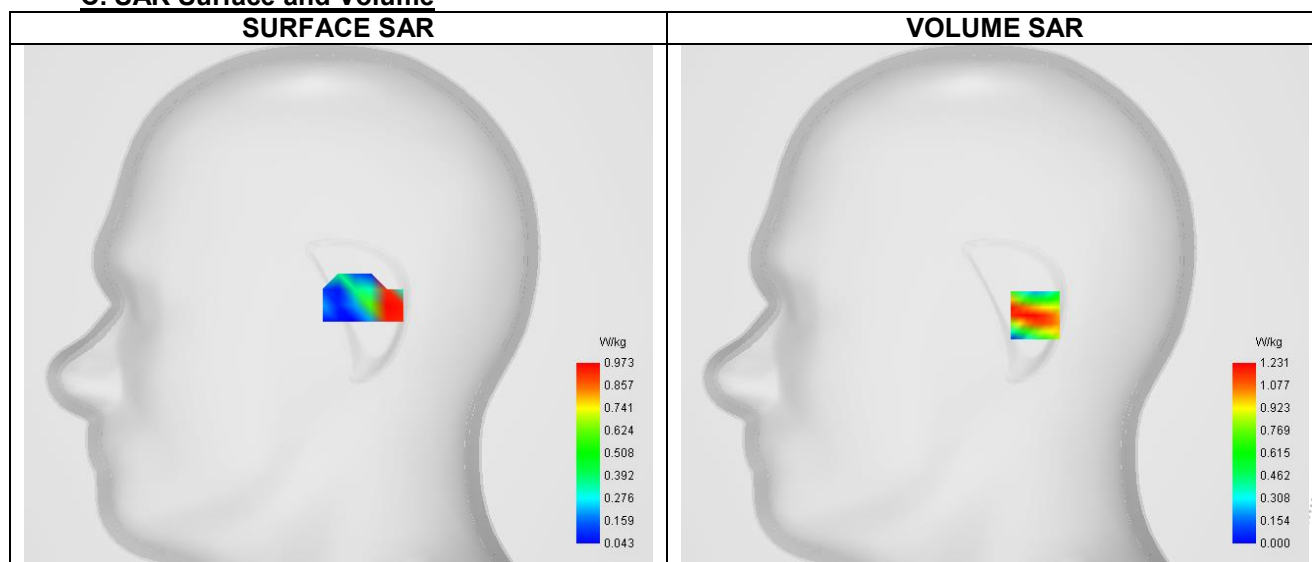
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.86
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11a U-NII-3
Channels	Low
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5745.000
Relative permittivity (real part)	36.212
Relative permittivity (imaginary part)	16.344
Conductivity (S/m)	5.124

C. SAR Surface and Volume



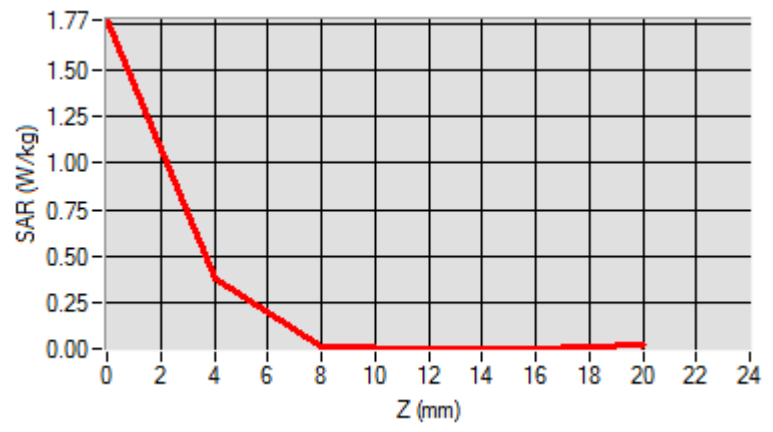
Maximum location: X=21.00, Y=-5.00 ; SAR Peak: 1.83 W/kg

D. SAR 1g & 10g

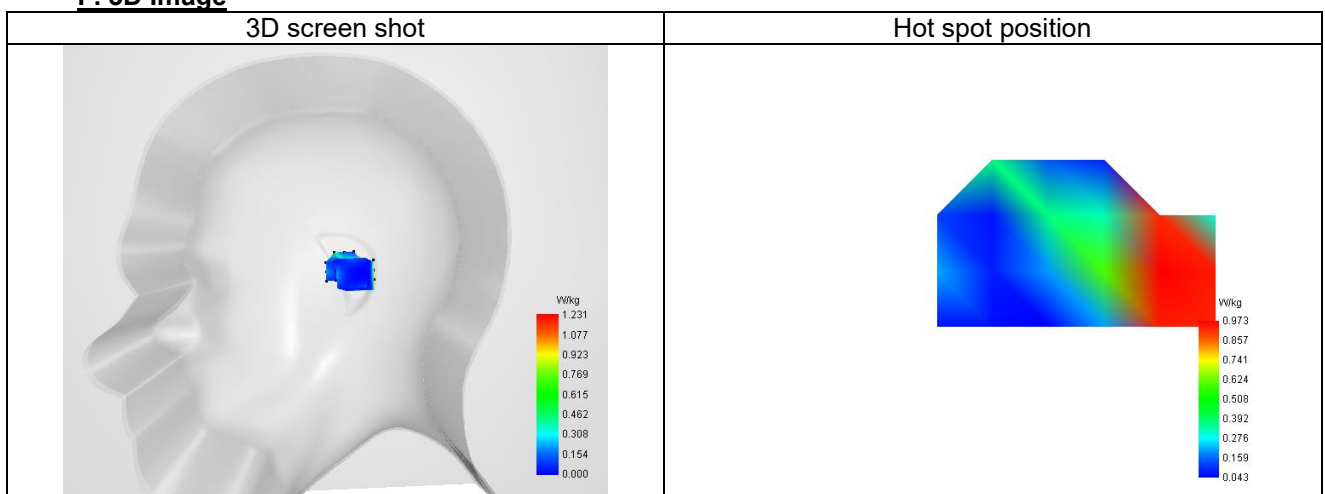
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.494
Variation (%)	-1.710
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.770	1.126	0.382	0.218	0.015	0.010	0.003	0.004	0.007



F. 3D Image



Plot 33

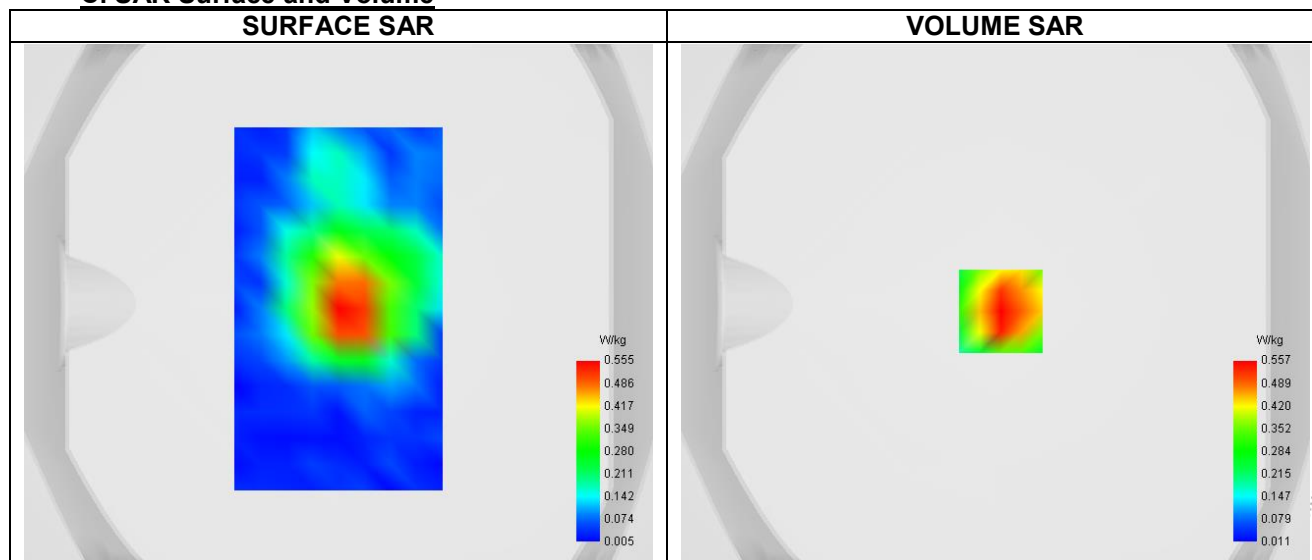
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.86
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a U-NII-3
Channels	Low
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5745.000
Relative permittivity (real part)	36.212
Relative permittivity (imaginary part)	16.344
Conductivity (S/m)	5.124

C. SAR Surface and Volume

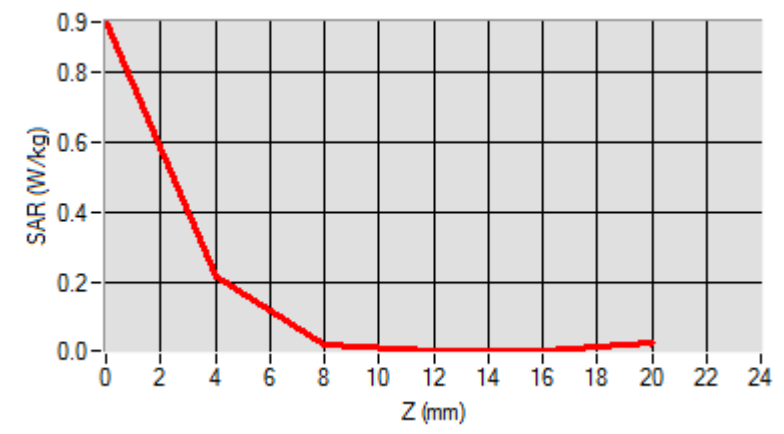


D. SAR 1g & 10g

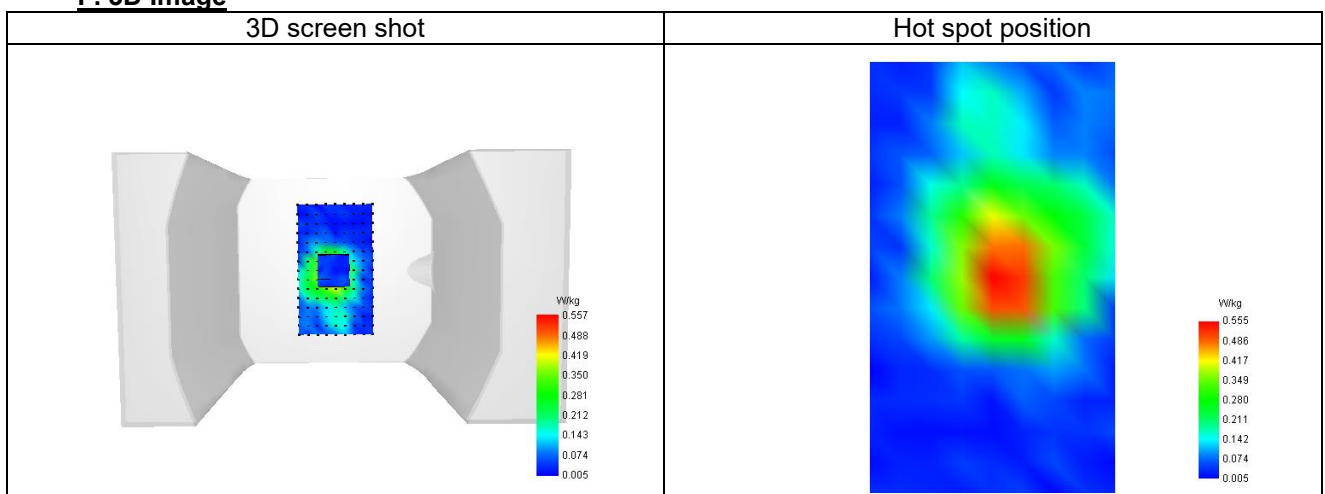
SAR 10g (W/Kg)	0.099
SAR 1g (W/Kg)	0.248
Variation (%)	2.560
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.940	0.596	0.215	0.136	0.020	0.010	0.006	0.004	0.005



F. 3D Image



Plot 34

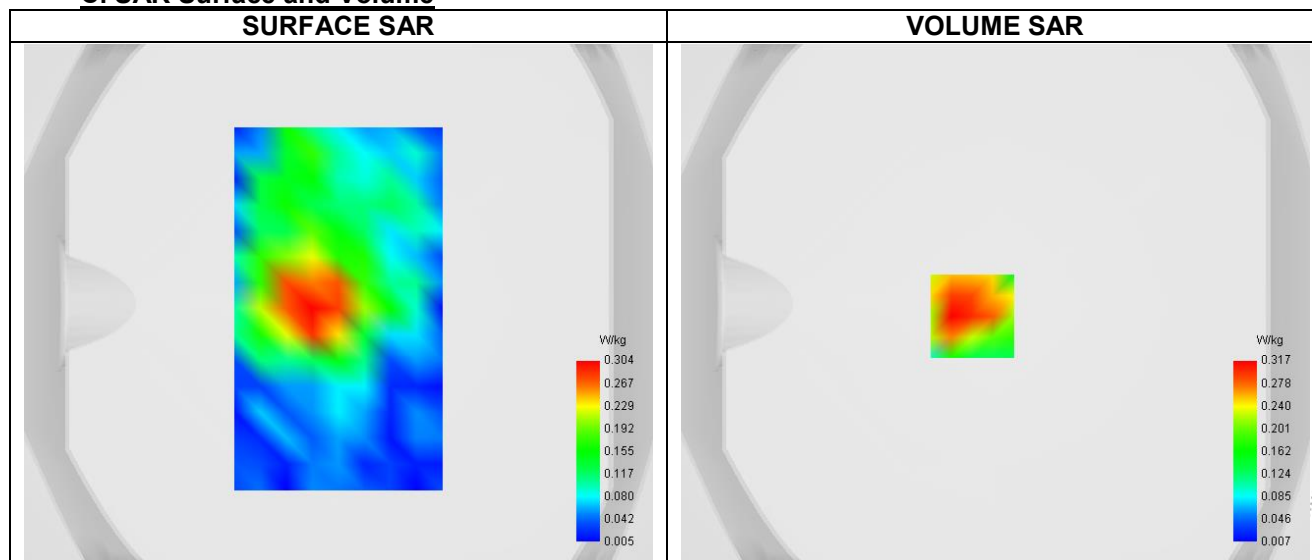
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.86
Area Scan	surf_sam_plan.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a U-NII-3
Channels	Low
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5745.000
Relative permittivity (real part)	36.212
Relative permittivity (imaginary part)	16.344
Conductivity (S/m)	5.124

C. SAR Surface and Volume



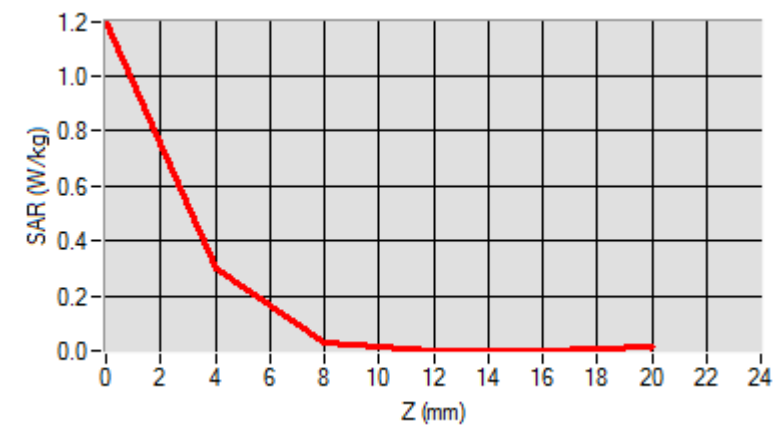
Maximum location: X=-9.00, Y=-5.00 ; SAR Peak: 1.21 W/kg

D. SAR 1g & 10g

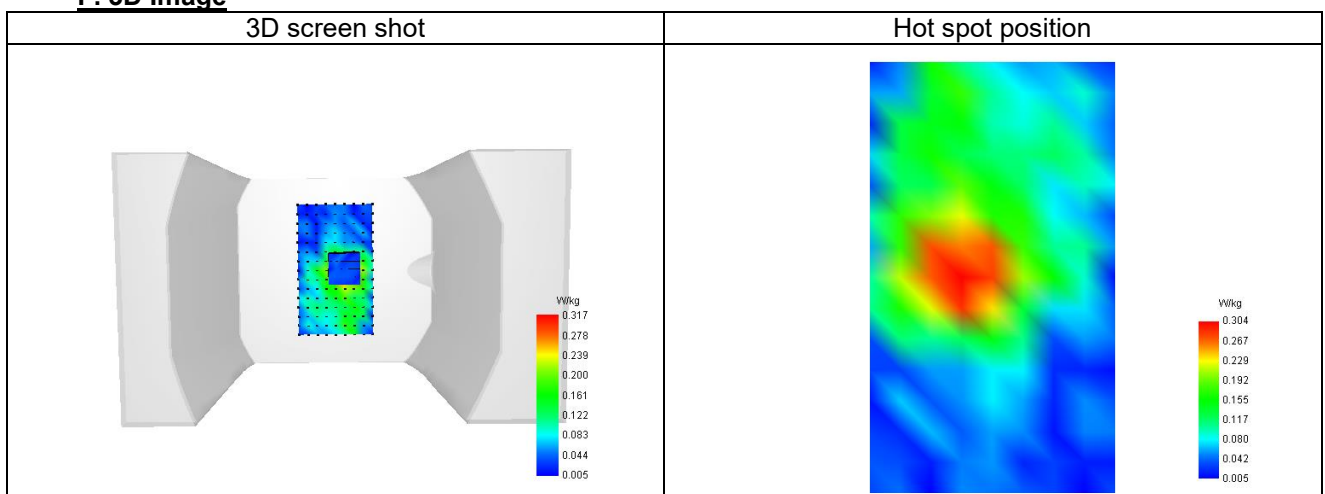
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.362
Variation (%)	-0.740
Horizontal validation criteria: minimum distance (mm)	--
Vertical validation criteria: SAR ratio M2/M1 (%)	--

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.194	0.786	0.297	0.182	0.030	0.015	0.004	0.002	0.002



F. 3D Image



16. CALIBRATION CERTIFICATES

Probe-EPGO373 Calibration Certificate
SID750Dipole Calibration Certificate
SID835Dipole Calibration Certificate
SID1800Dipole Calibration Certificate
SID1900Dipole Calibration Certificate
SID2450Dipole Calibration Certificate
SID2600Dipole Calibration Certificate
SID5000Dipole Calibration Certificate

