

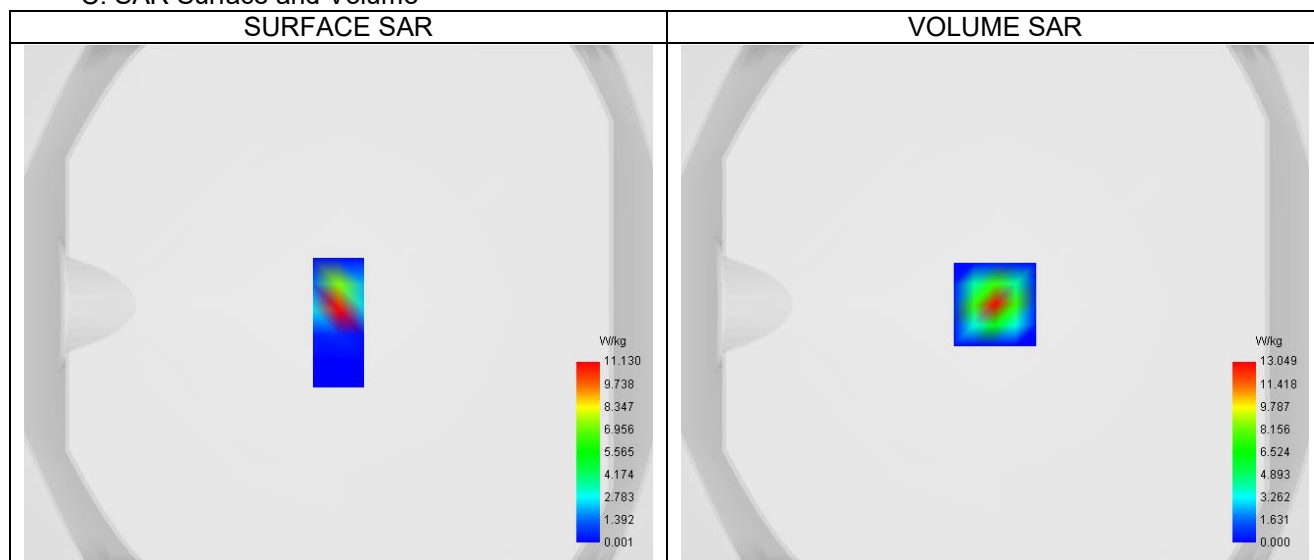
A. Experimental conditions.

Probe	SN EPG0373
ConvF	21.00
Area Scan	dx=10mm dy=10mm, Adaptive 2 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Very fast
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5800.000
Relative permittivity (real part)	48.200
Relative permittivity (imaginary part)	18.620
Conductivity (S/m)	6.000

C. SAR Surface and Volume



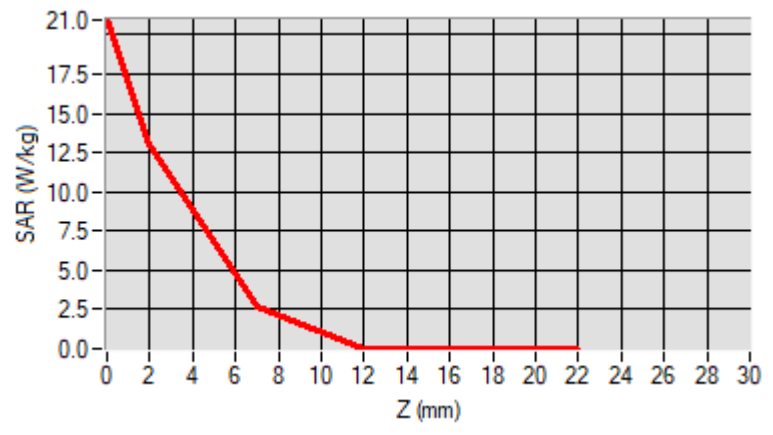
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 22.11 W/kg

D. SAR 1g & 10g

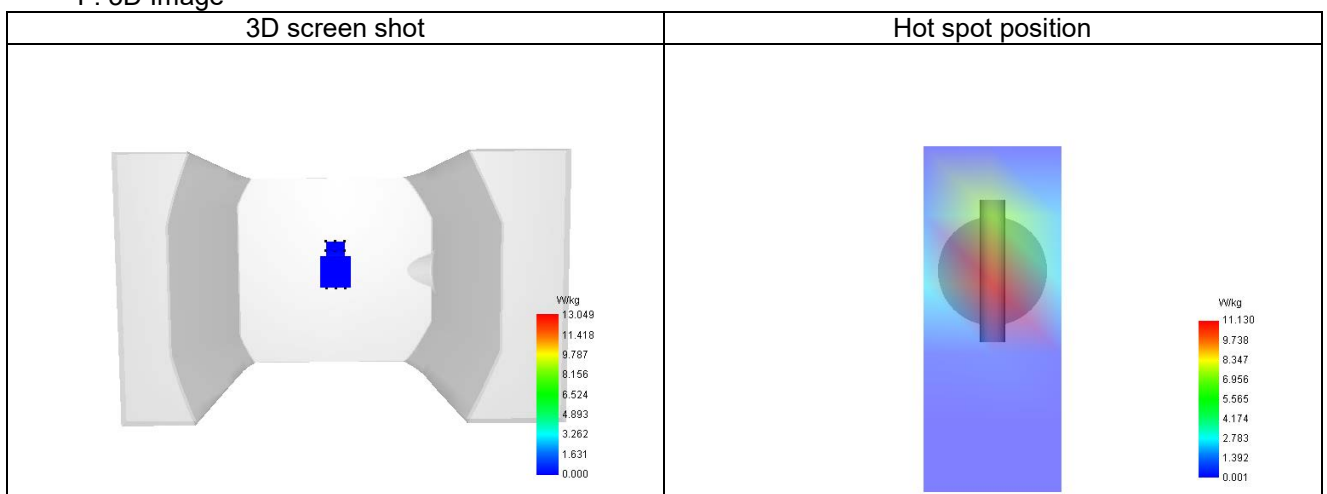
SAR 10g (W/Kg)	2.063
SAR 1g (W/Kg)	6.847
Variation (%)	0.430
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	20.951	13.049	2.674	0.012	0.003



F. 3D Image



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

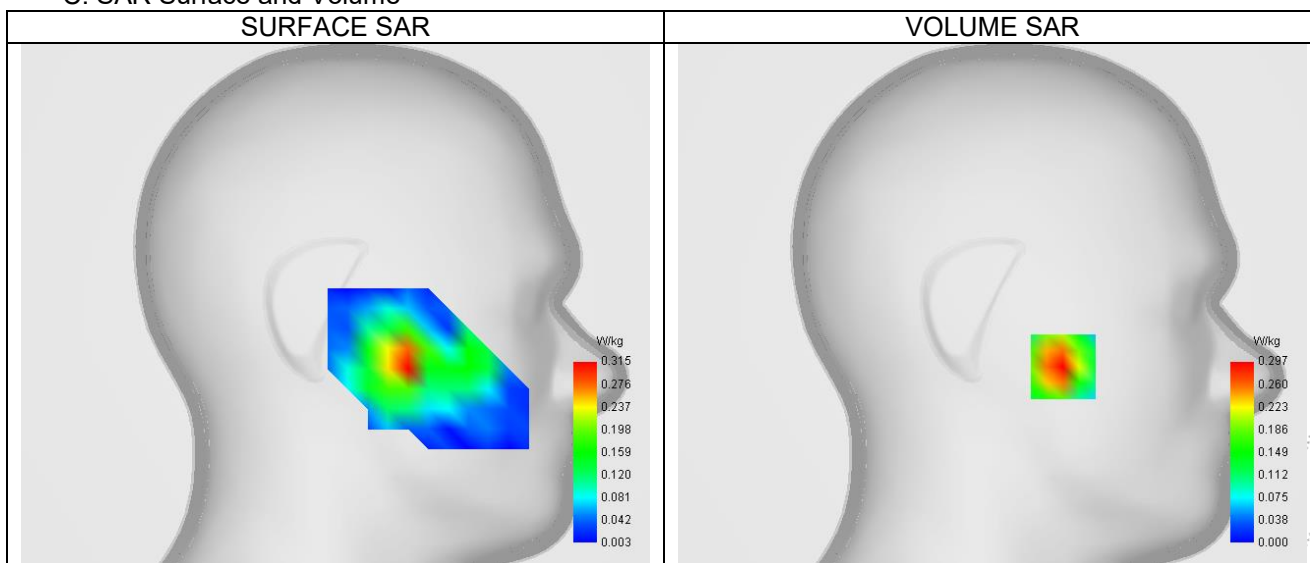
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low (128)
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	824.200
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.902

C. SAR Surface and Volume



Maximum location: X=-35.00, Y=-31.00 ; SAR Peak: 0.46 W/kg

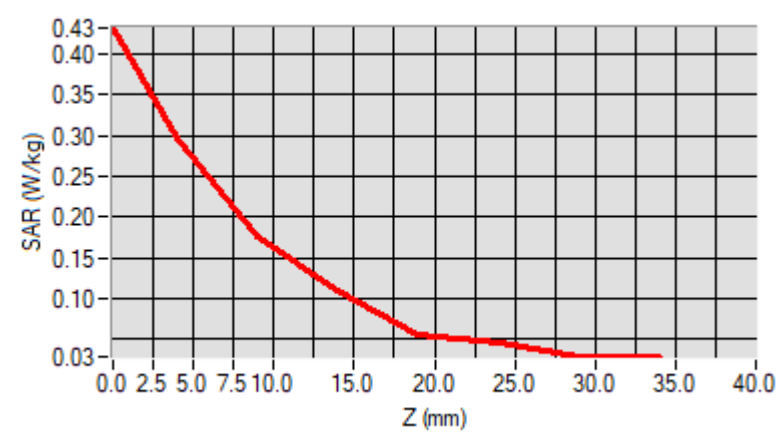
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.146
SAR 1g (W/Kg)	0.274
Variation (%)	1.020
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.628471

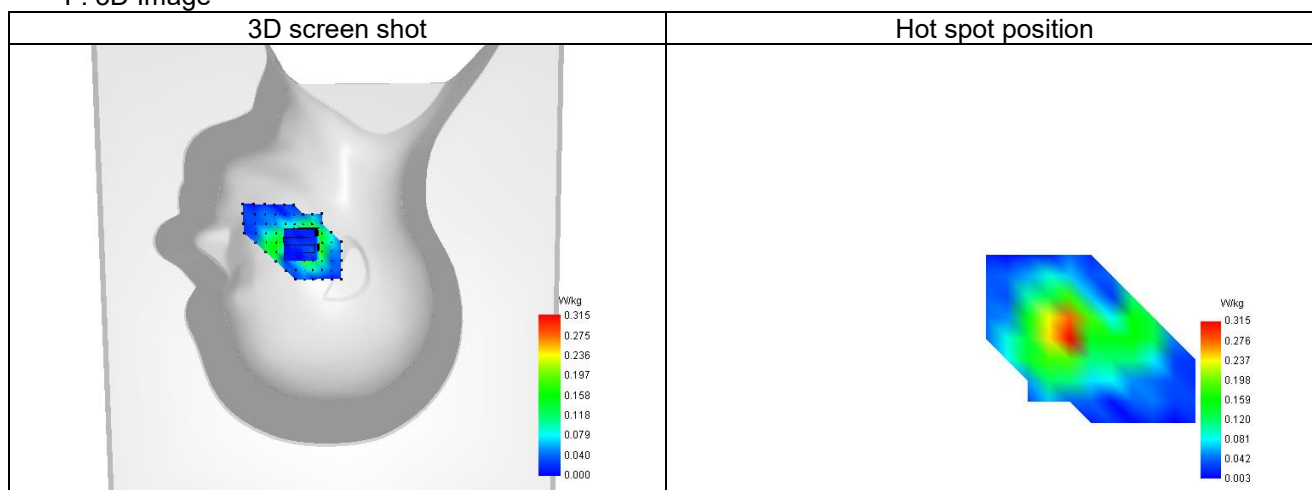
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
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SAR (W/Kg)	0.432	0.297	0.177	0.110	0.055	0.047	0.028
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F. 3D Image



Plot 2

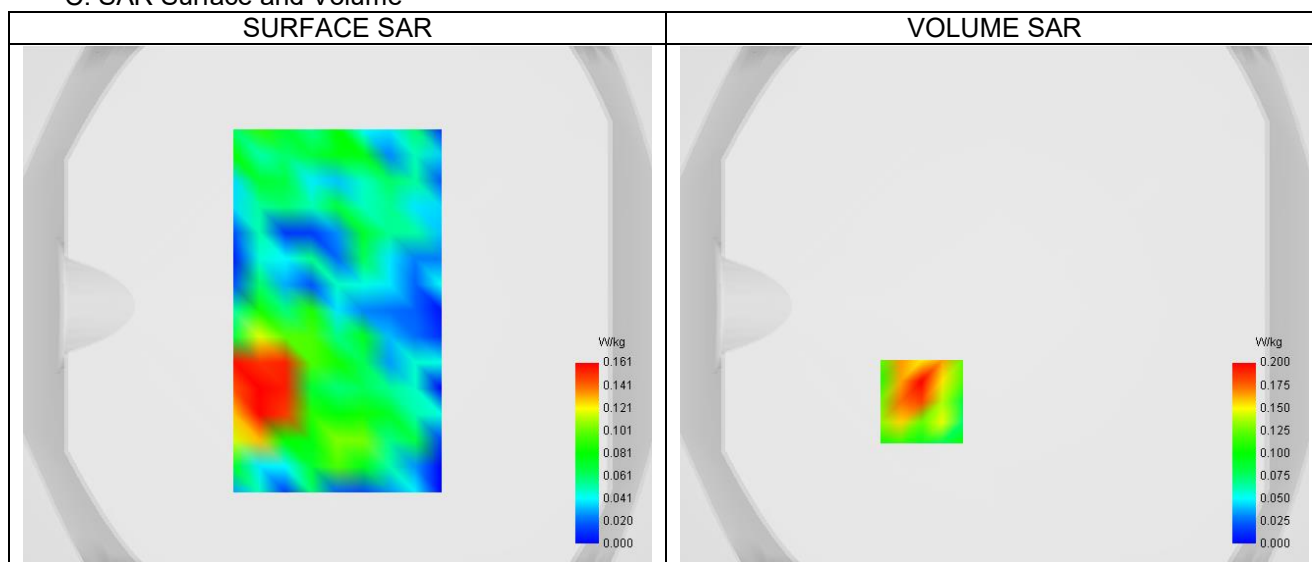
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle (190)
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	836.600
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.902

C. SAR Surface and Volume

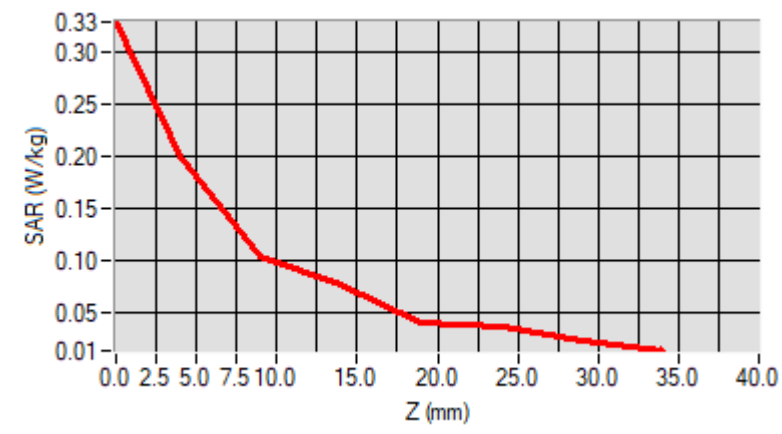


D. SAR 1g & 10g

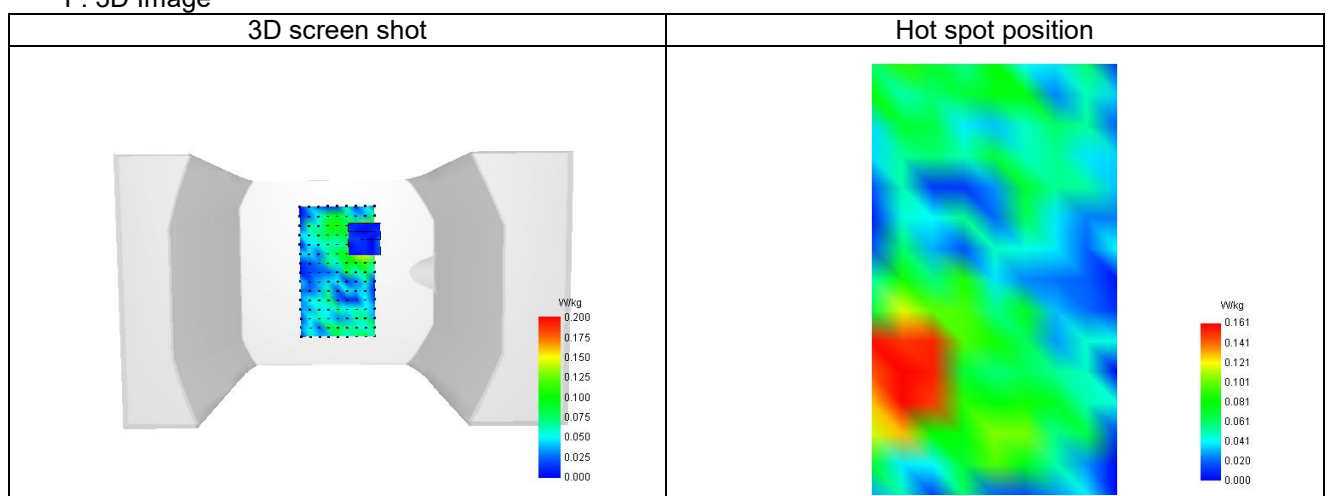
SAR 10g (W/Kg)	0.105
SAR 1g (W/Kg)	0.183
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	60.390233

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.330	0.200	0.104	0.076	0.040	0.036	0.022



F. 3D Image



Plot 3

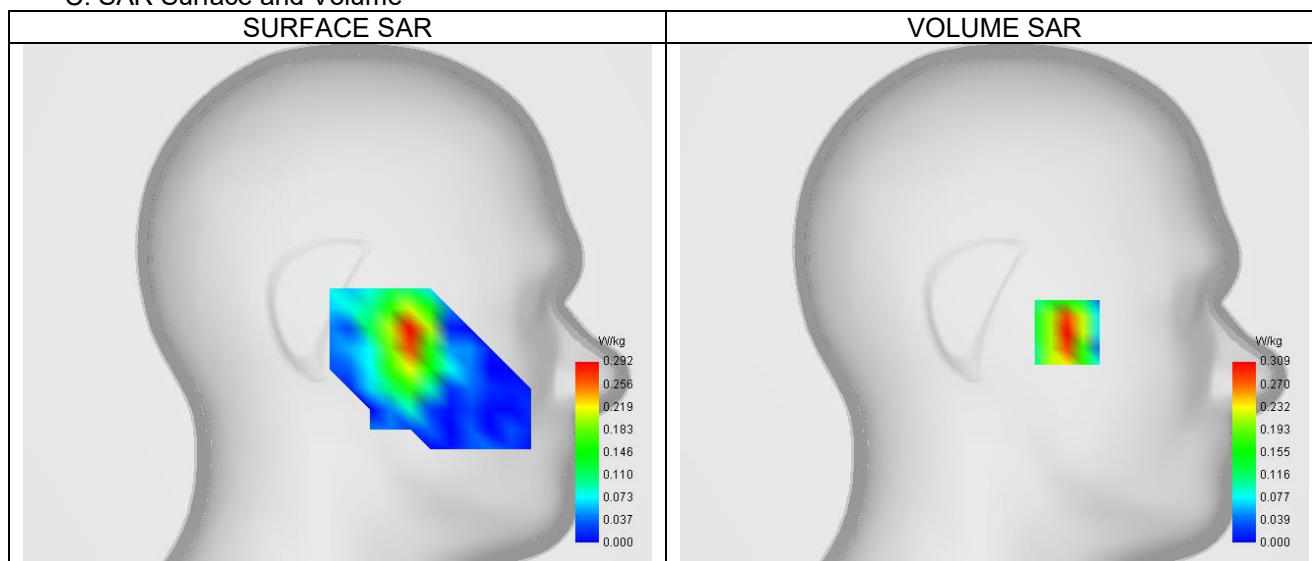
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle (661)
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



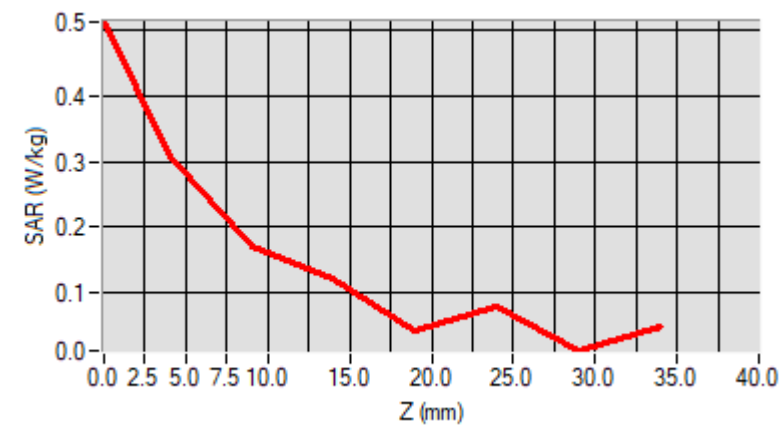
Maximum location: X=-36.00, Y=-14.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

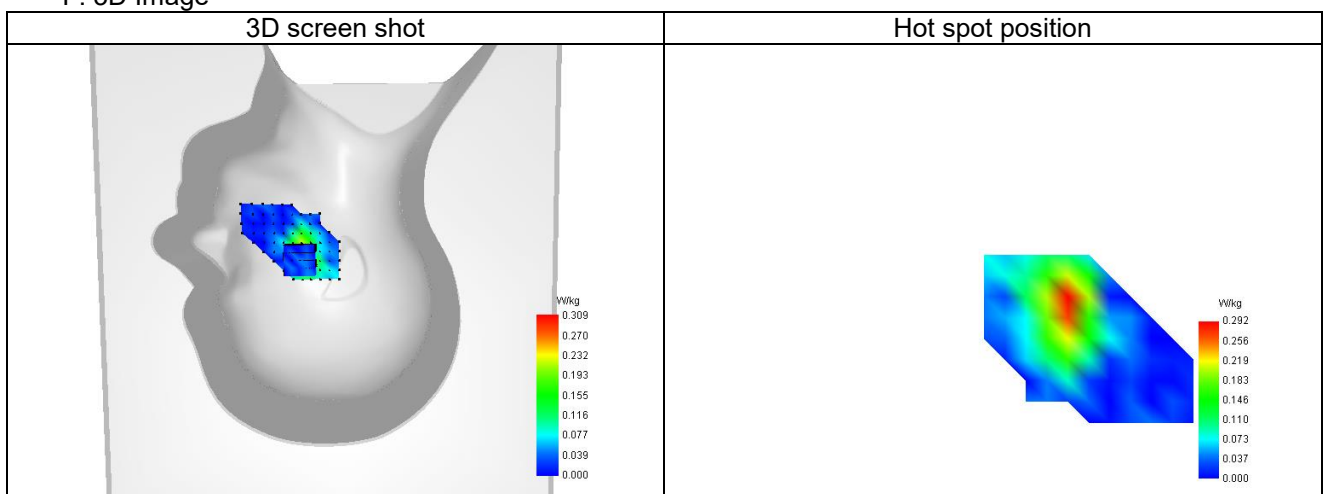
SAR 10g (W/Kg)	0.150
SAR 1g (W/Kg)	0.291
Variation (%)	-1.360
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.555637

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.513	0.309	0.171	0.121	0.043	0.078	0.011



F. 3D Image



Plot 4

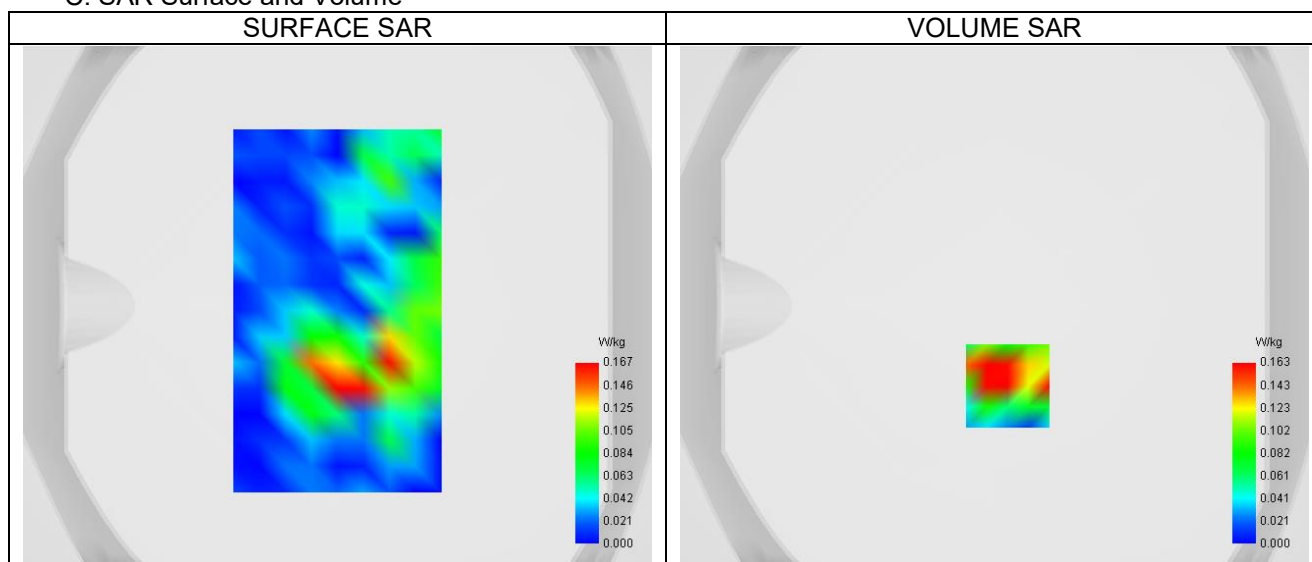
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle (661)
Signal	TDMA (Crest factor: 8.0)

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



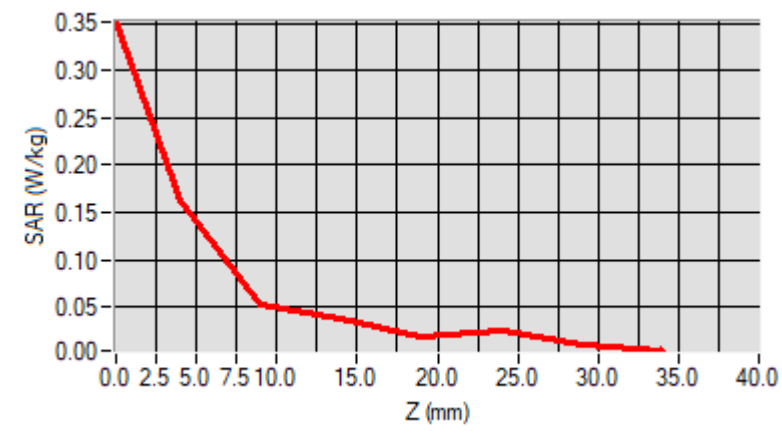
Maximum location: X=5.00, Y=-31.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

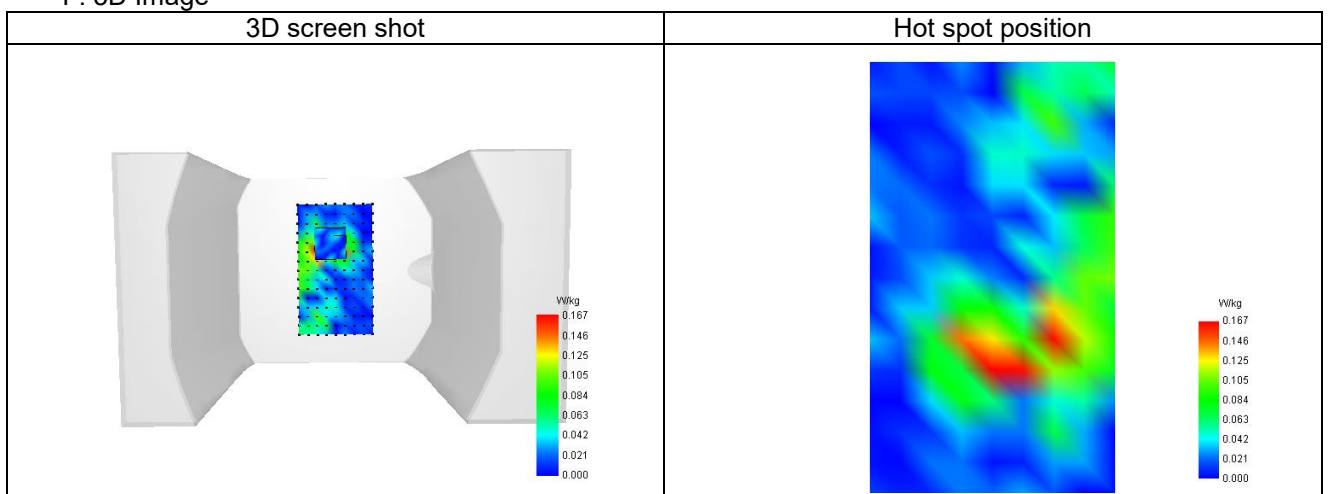
SAR 10g (W/Kg)	0.077
SAR 1g (W/Kg)	0.159
Variation (%)	-2.580
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.224002

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.351	0.163	0.053	0.038	0.020	0.026	0.009



F. 3D Image



Plot 5

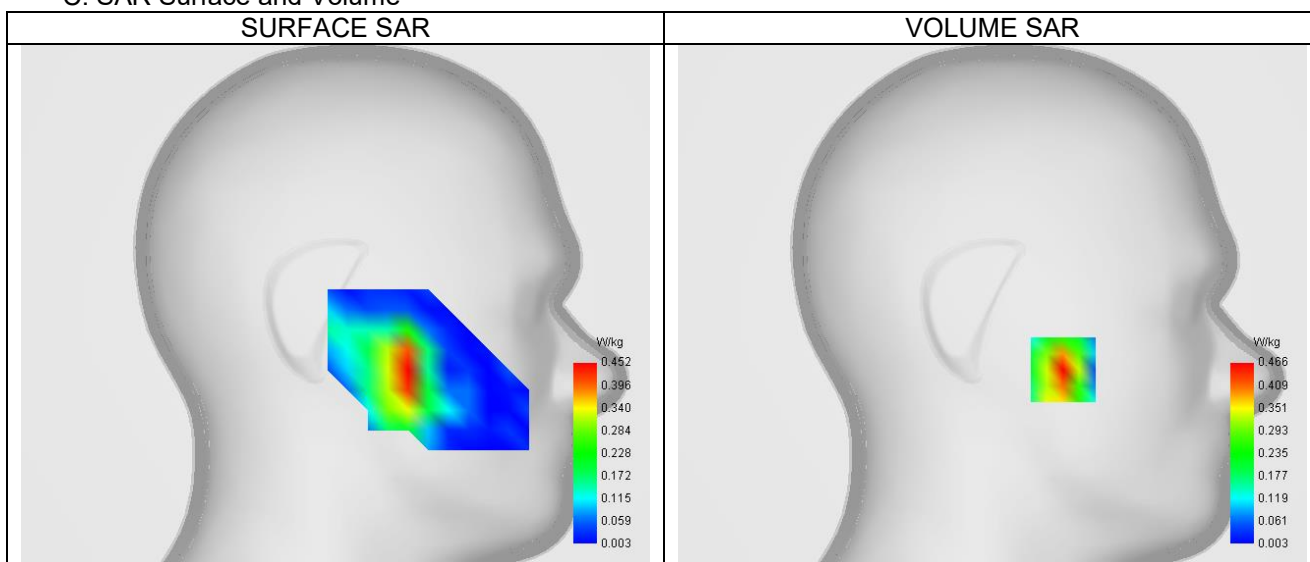
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band2_WCDMA1900
Channels	High (9538)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume

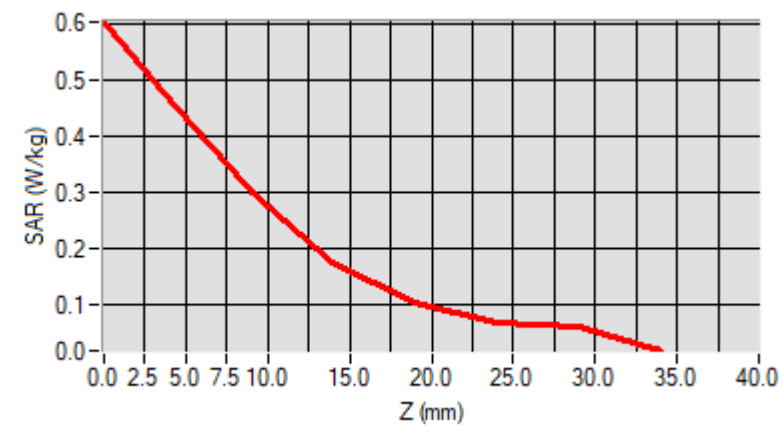


D. SAR 1g & 10g

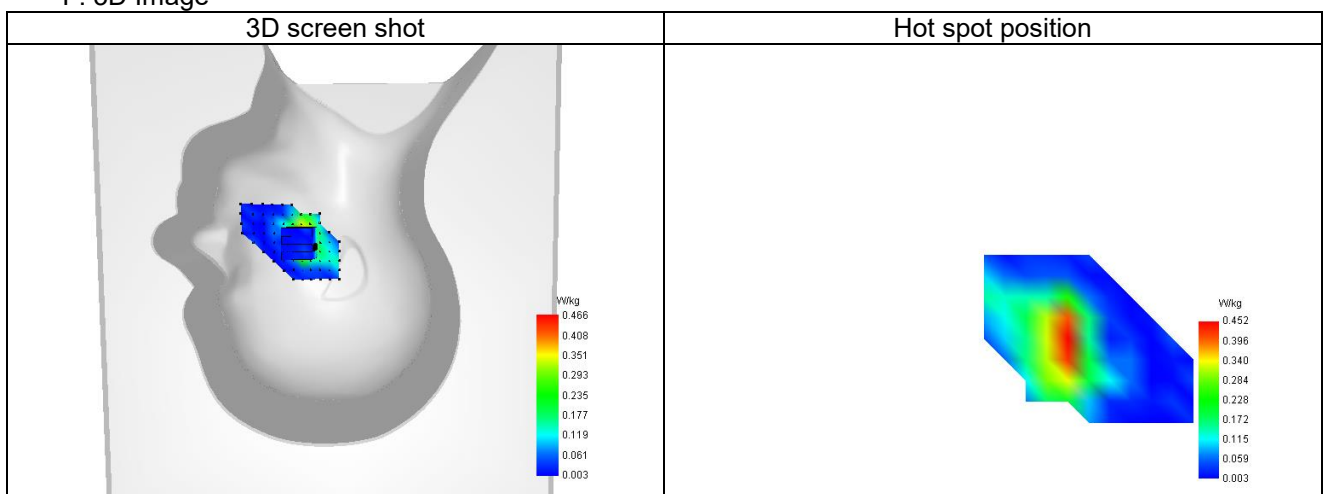
SAR 10g (W/Kg)	0.223
SAR 1g (W/Kg)	0.422
Variation (%)	-1.100
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	64.532694

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.605	0.466	0.301	0.176	0.101	0.068	0.058



F. 3D Image



Plot 6

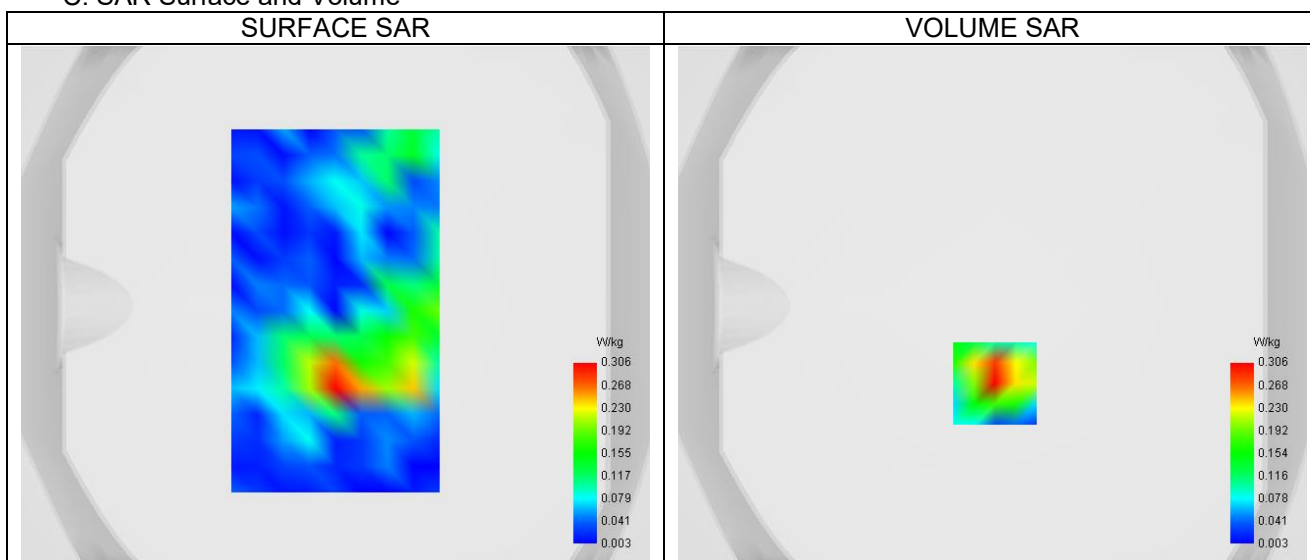
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band2_WCDMA1900
Channels	High (9538)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume

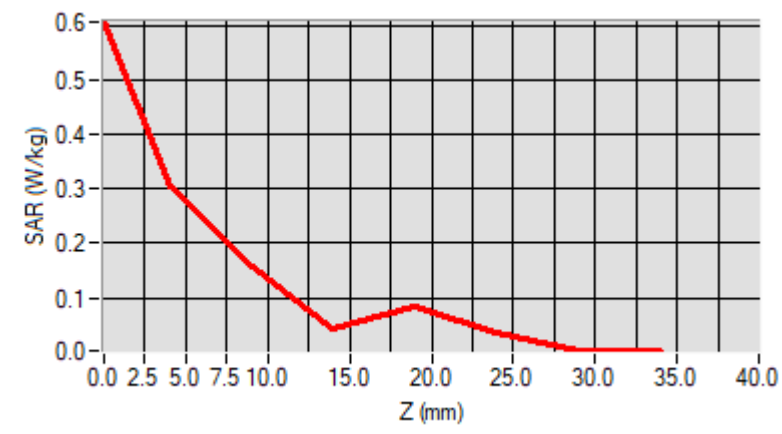


D. SAR 1g & 10g

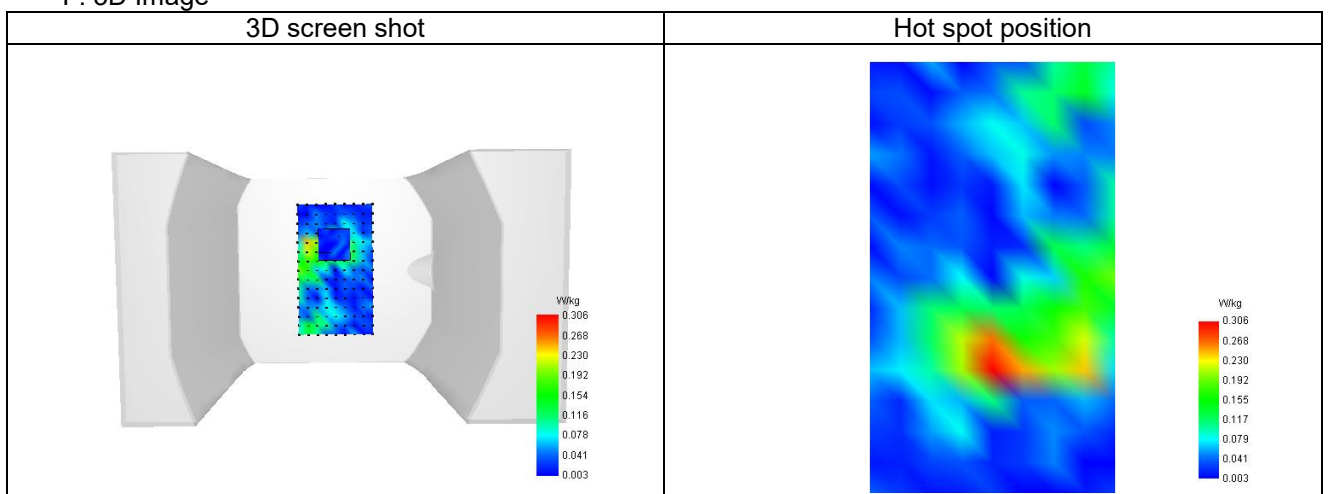
SAR 10g (W/Kg)	0.144
SAR 1g (W/Kg)	0.299
Variation (%)	0.510
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.636405

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.606	0.306	0.158	0.045	0.086	0.036	0.003



F. 3D Image



Plot 7

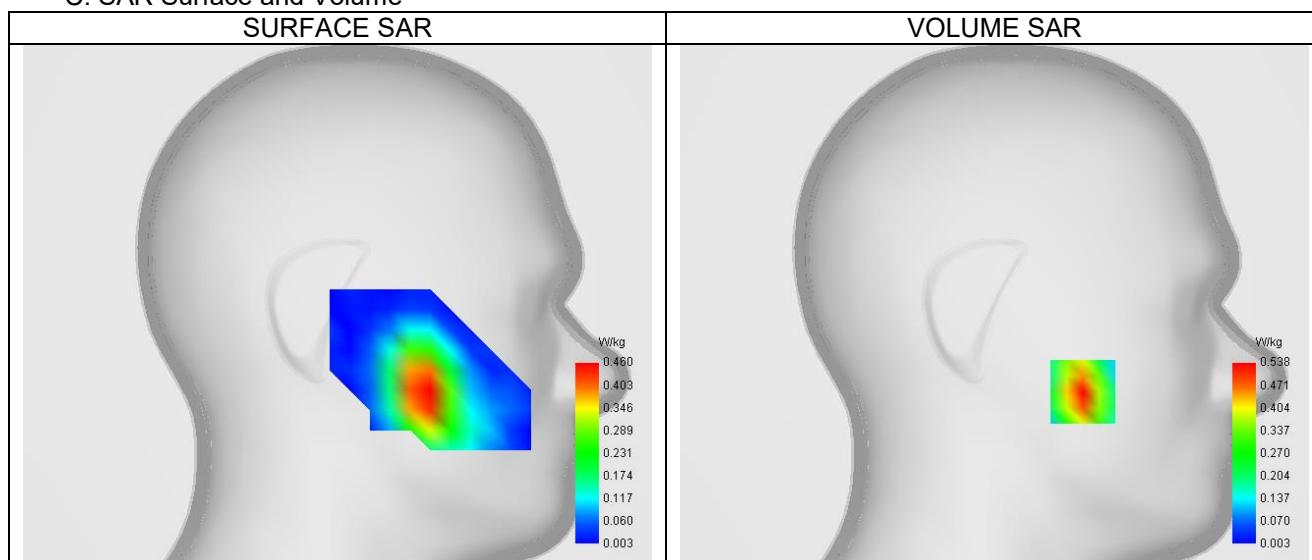
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band4_WCDMA1700
Channels	Low (1312)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1712.400
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume

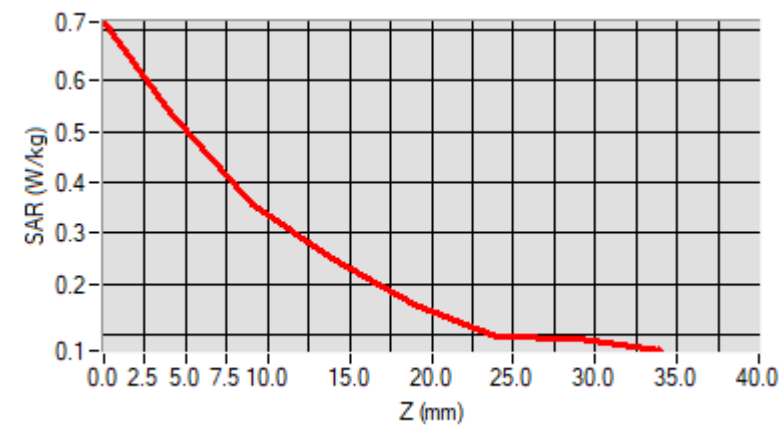


D. SAR 1g & 10g

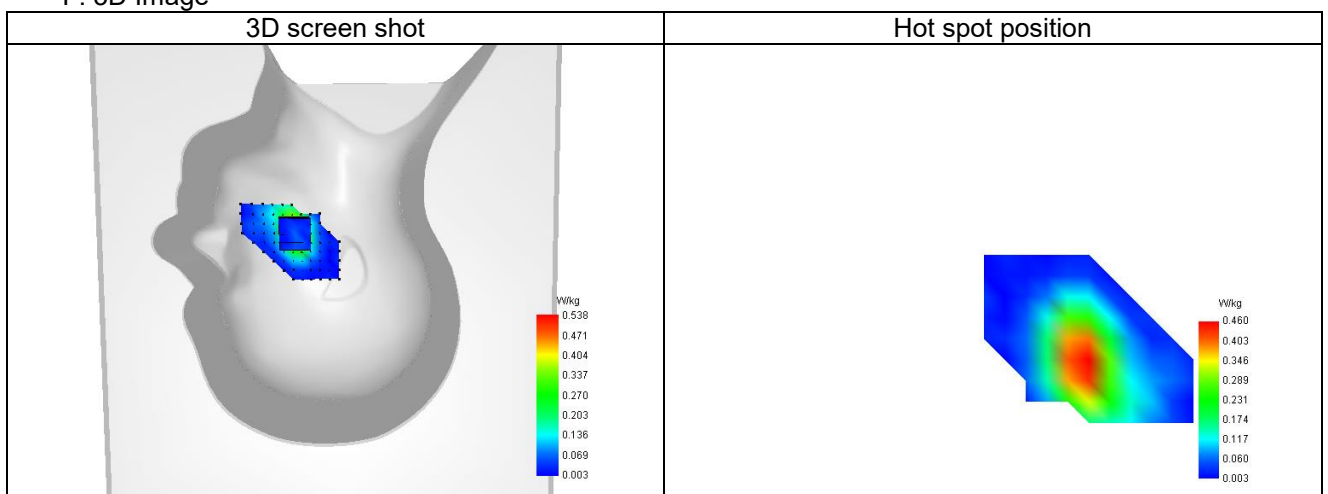
SAR 10g (W/Kg)	0.284
SAR 1g (W/Kg)	0.488
Variation (%)	-3.940
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.083077

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.716	0.538	0.355	0.250	0.161	0.096	0.091



F. 3D Image



Plot 8

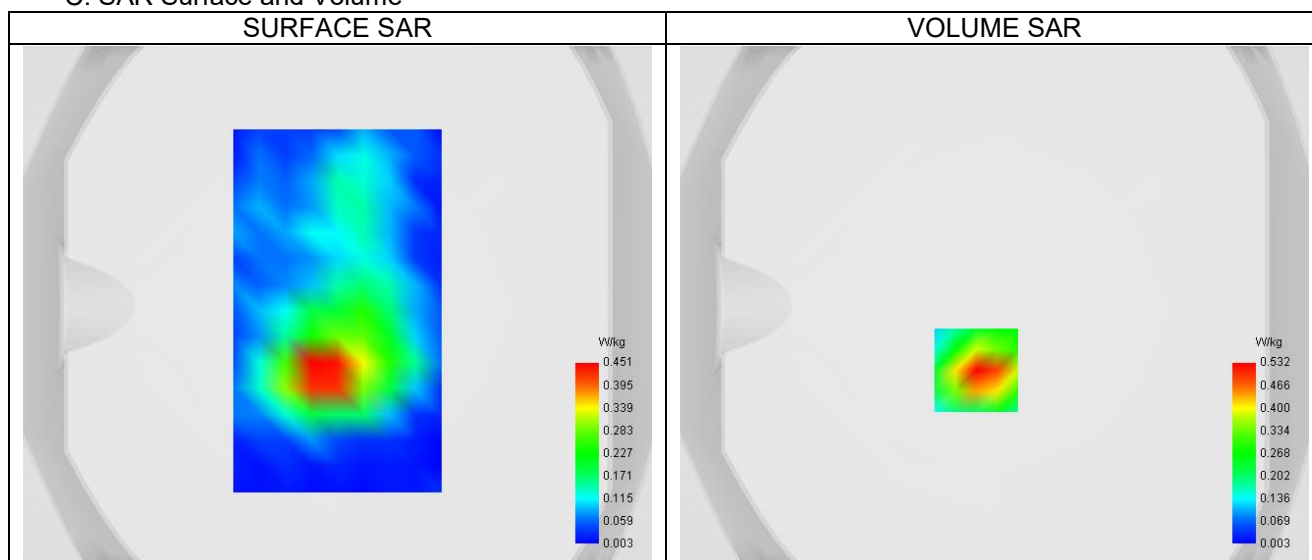
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band4_WCDMA1700
Channels	Low (1312)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1712.400
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume

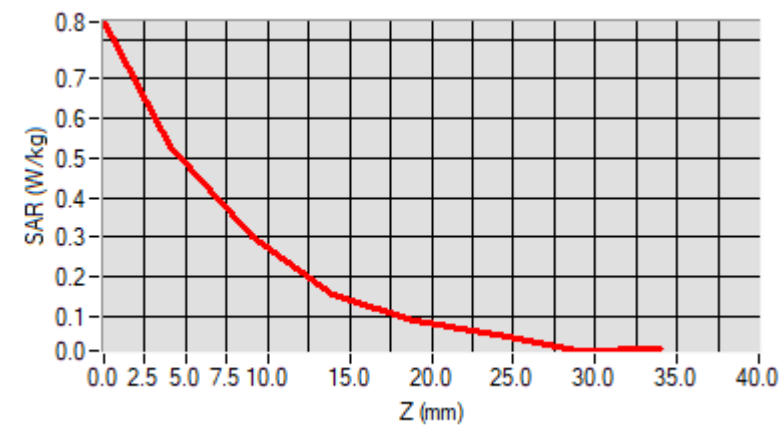


D. SAR 1g & 10g

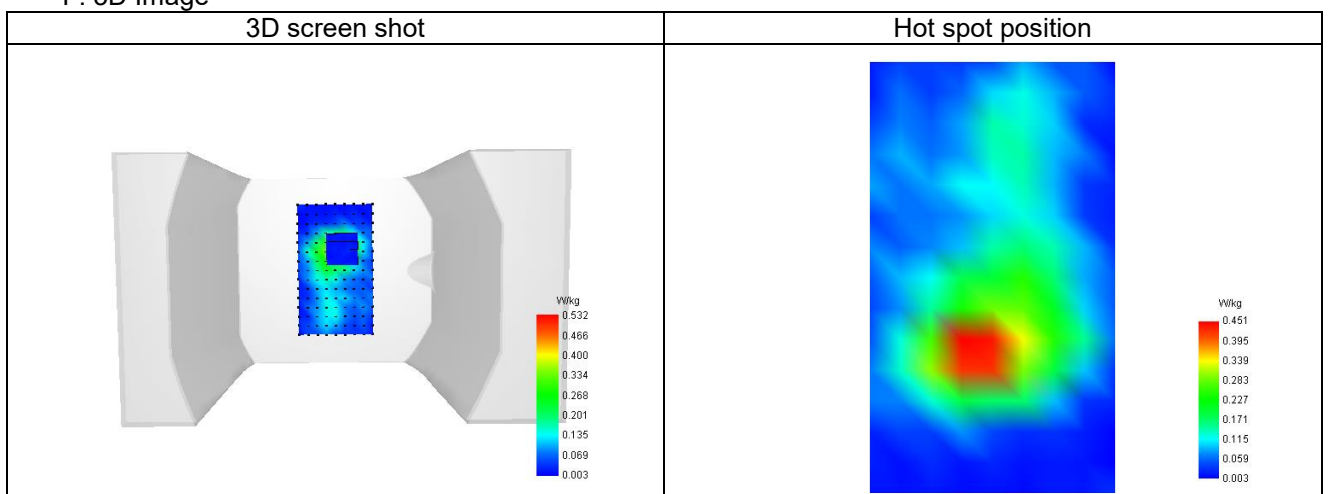
SAR 10g (W/Kg)	0.252
SAR 1g (W/Kg)	0.499
Variation (%)	1.380
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.512802

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.845	0.532	0.301	0.153	0.087	0.053	0.012



F. 3D Image



Plot 9

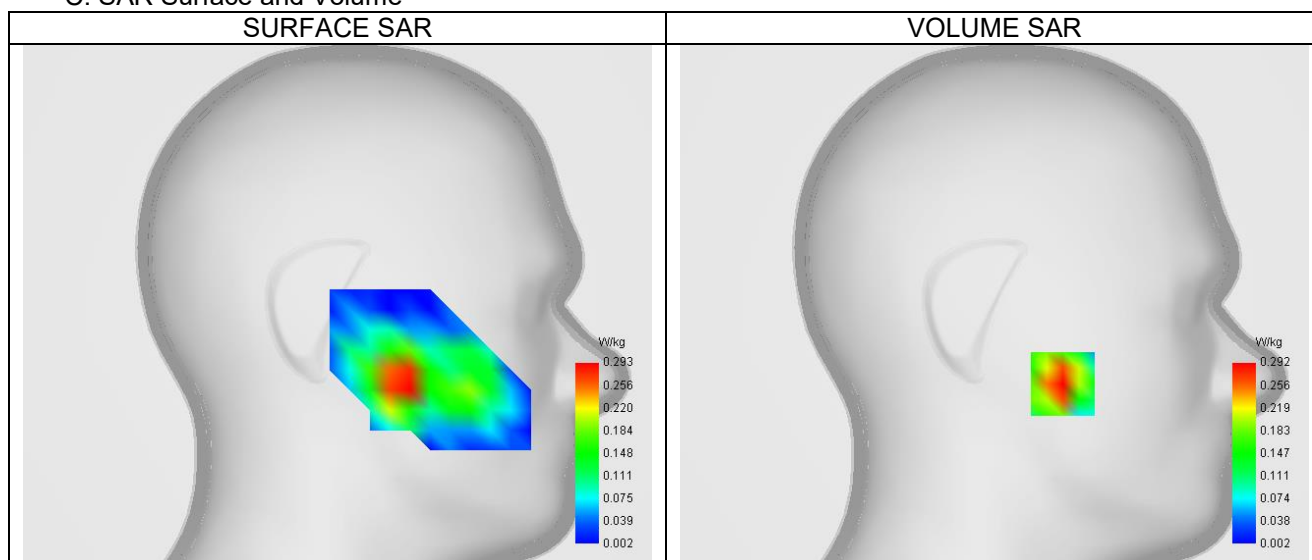
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Band5_WCDMA850
Channels	Low (4132)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	42.285
Relative permittivity (imaginary part)	20.226
Conductivity (S/m)	0.940

C. SAR Surface and Volume



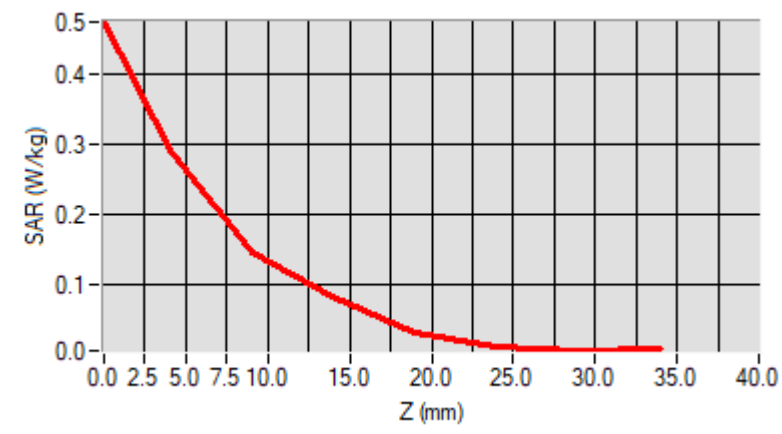
Maximum location: X=-34.00, Y=-39.00 ; SAR Peak: 0.50 W/kg

D. SAR 1g & 10g

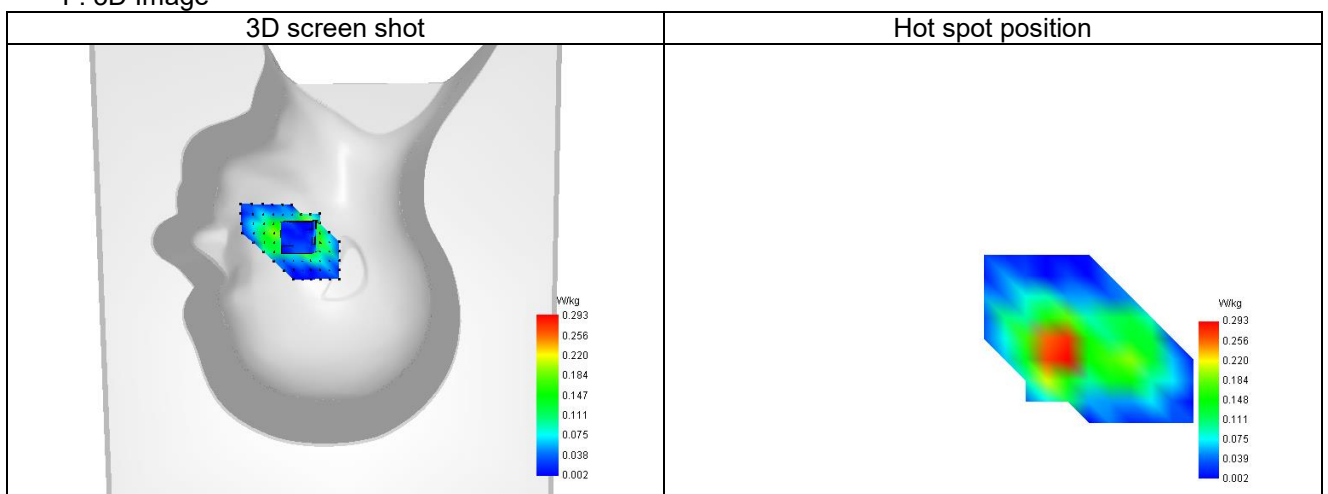
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.285
Variation (%)	-2.630
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.331369

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.473	0.292	0.147	0.083	0.031	0.013	0.007



F. 3D Image



Plot 10

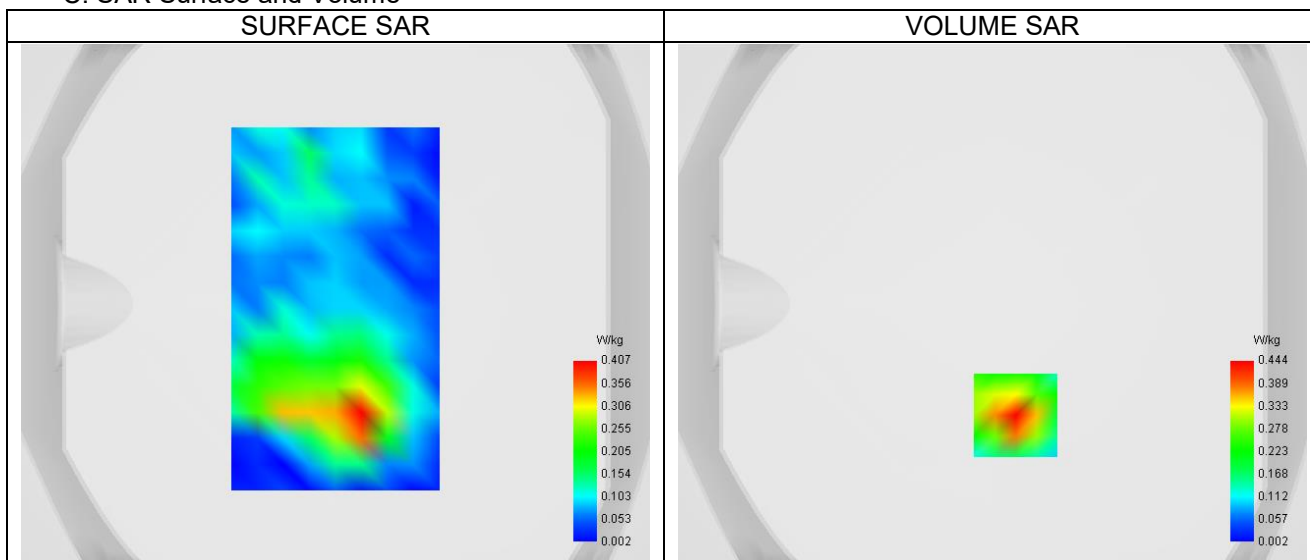
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band5_WCDMA850
Channels	Low (4132)
Signal	WCDMA (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	42.285
Relative permittivity (imaginary part)	20.226
Conductivity (S/m)	0.940

C. SAR Surface and Volume

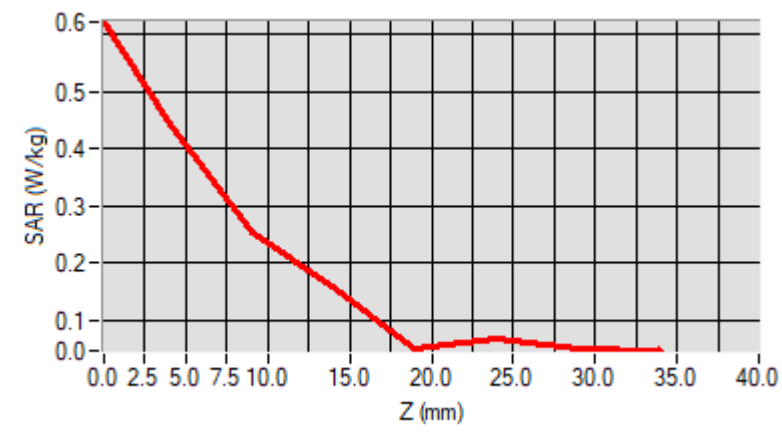


D. SAR 1g & 10g

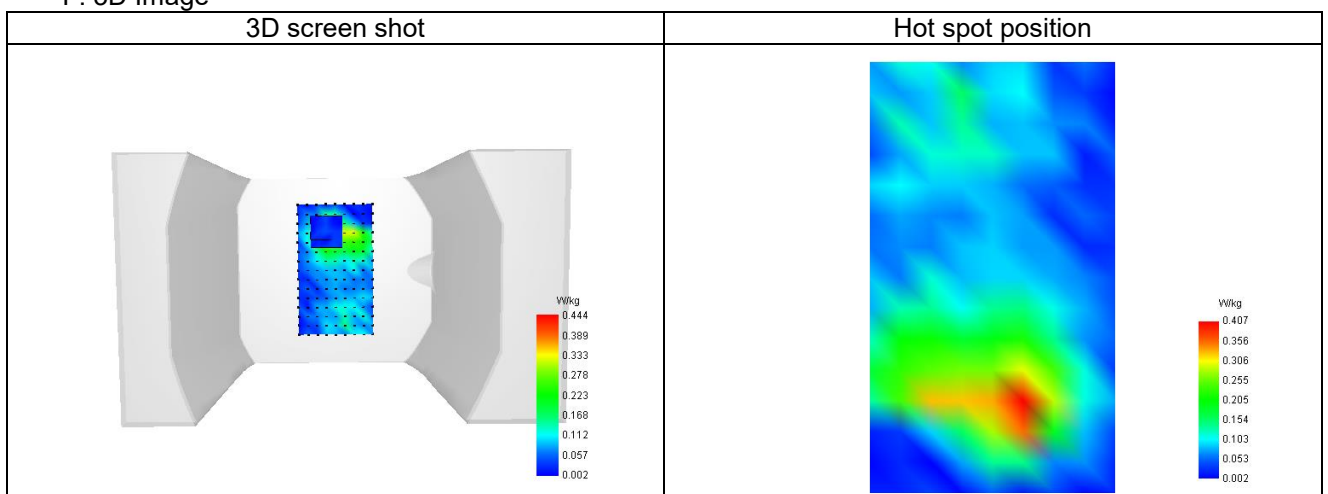
SAR 10g (W/Kg)	0.212
SAR 1g (W/Kg)	0.415
Variation (%)	-1.110
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.810973

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.621	0.444	0.252	0.160	0.049	0.068	0.050



F. 3D Image



Plot 11

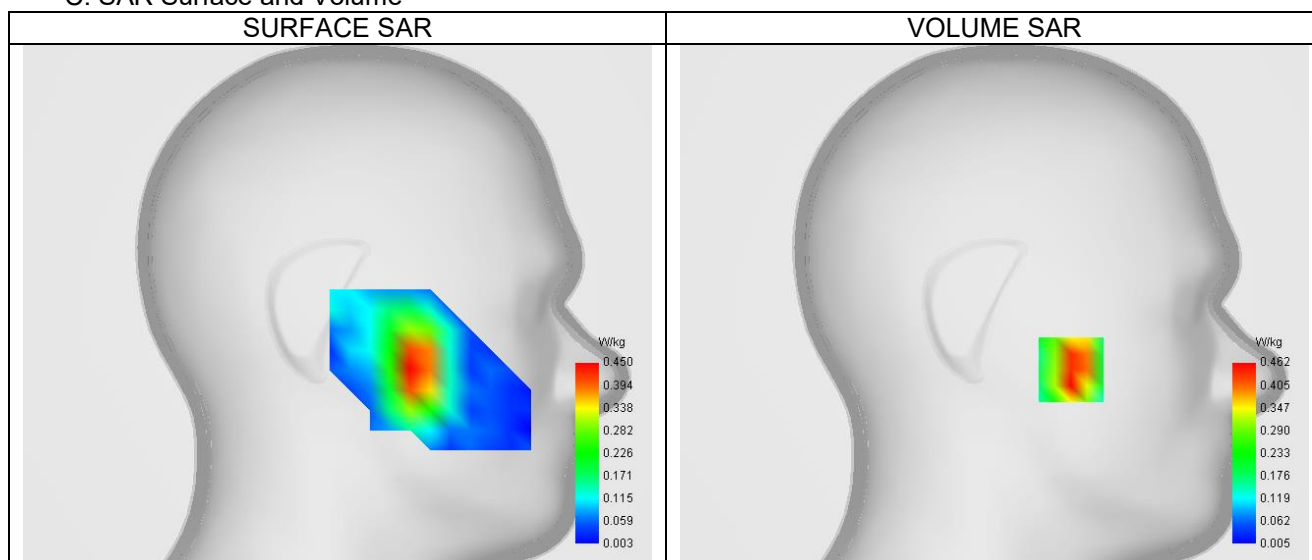
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 2
Channels	Low (18700)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1860.000
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume

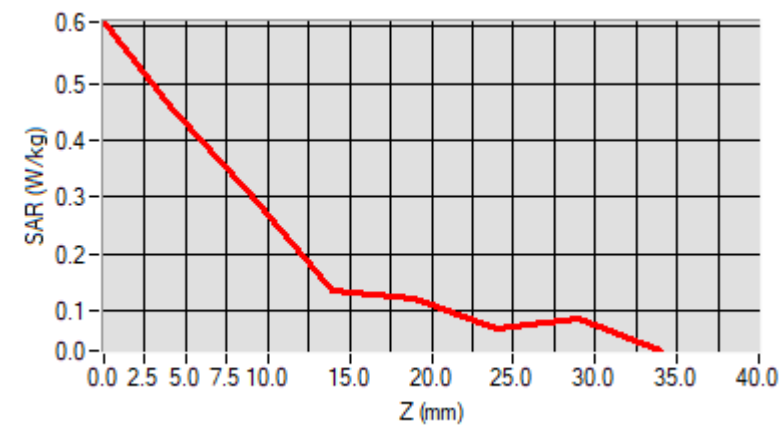


D. SAR 1g & 10g

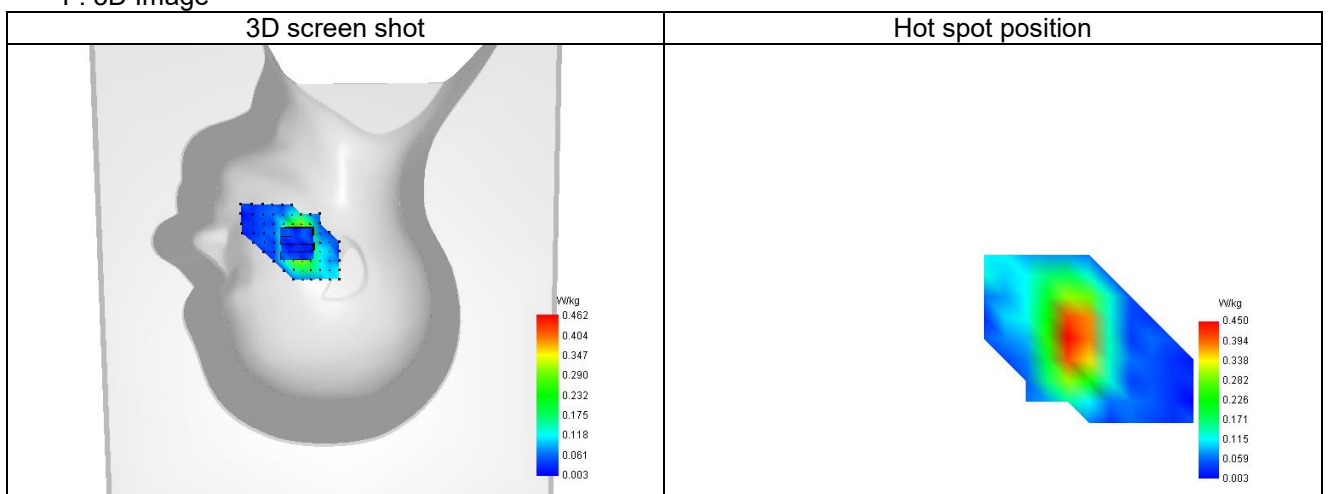
SAR 10g (W/Kg)	0.245
SAR 1g (W/Kg)	0.435
Variation (%)	2.620
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.200227

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.609	0.462	0.300	0.136	0.120	0.068	0.086



F. 3D Image



Plot 12

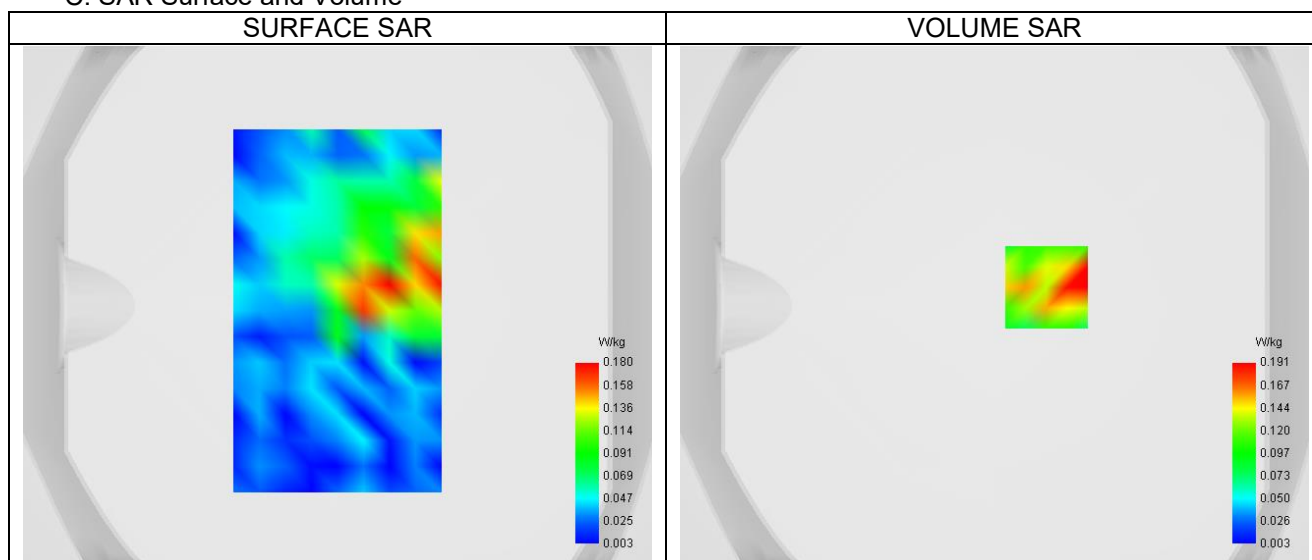
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.27
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	Low (18700)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1860.000
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



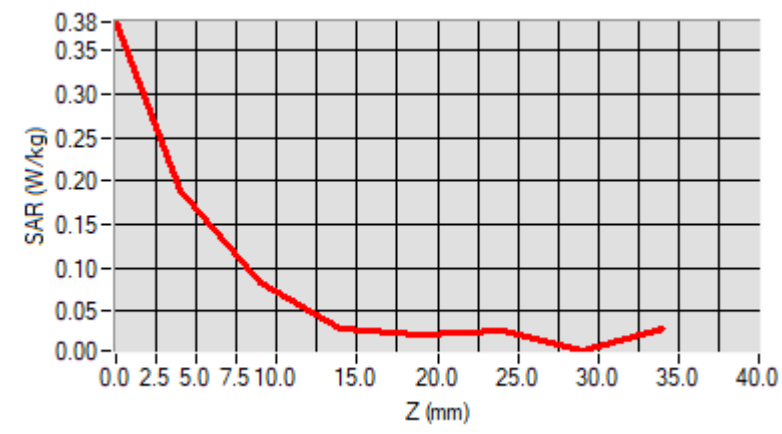
Maximum location: X=20.00, Y=7.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

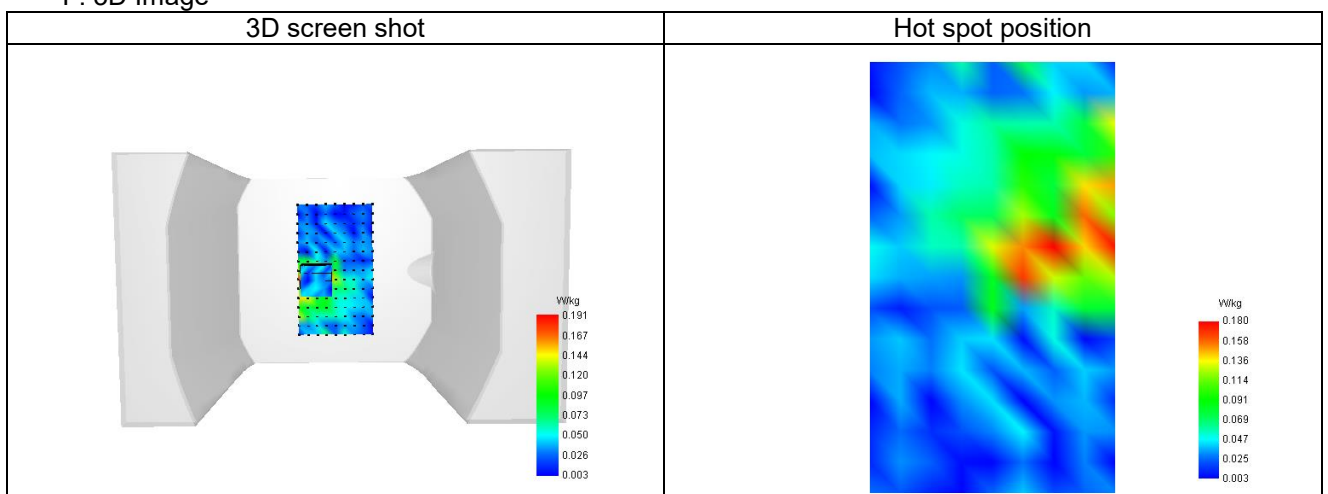
SAR 10g (W/Kg)	0.105
SAR 1g (W/Kg)	0.195
Variation (%)	1.630
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	33.066077

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.383	0.191	0.084	0.030	0.024	0.027	0.005



F. 3D Image



Plot 13

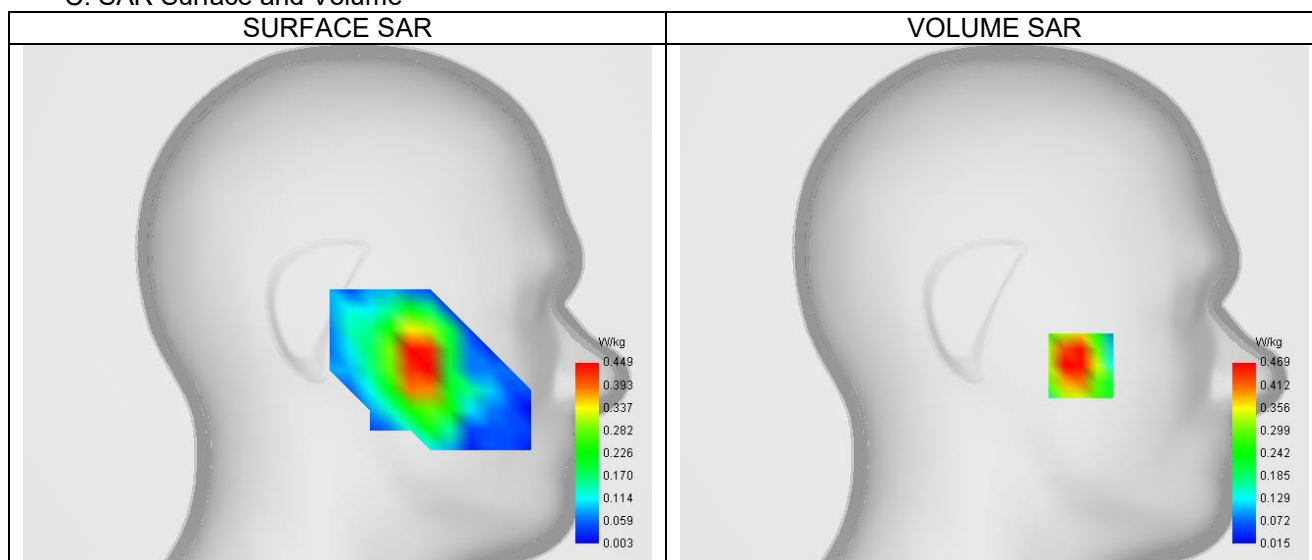
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 4
Channels	Middle (20175)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1732.500
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume



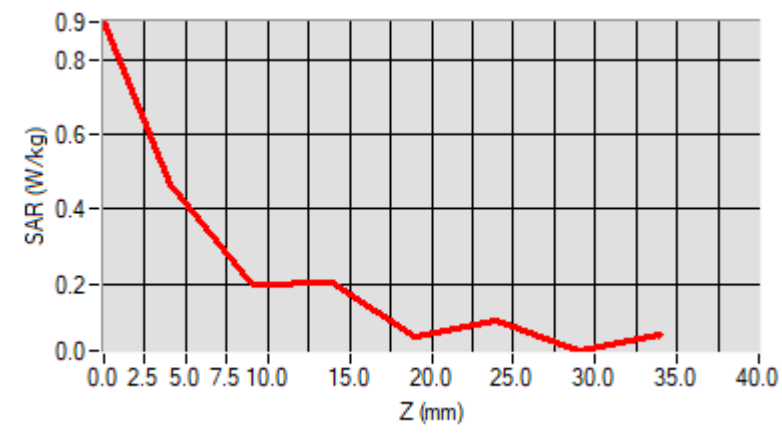
Maximum location: X=-43.00, Y=-30.00 ; SAR Peak: 0.73 W/kg

D. SAR 1g & 10g

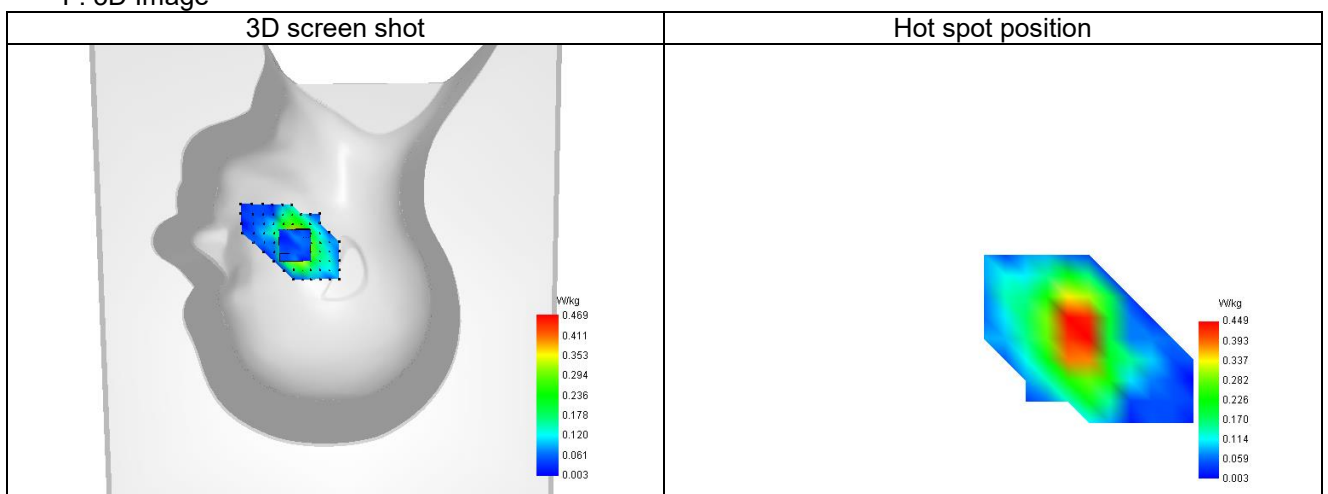
SAR 10g (W/Kg)	0.274
SAR 1g (W/Kg)	0.464
Variation (%)	-3.580
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.330189

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.899	0.469	0.197	0.203	0.063	0.101	0.023



F. 3D Image



Plot 14

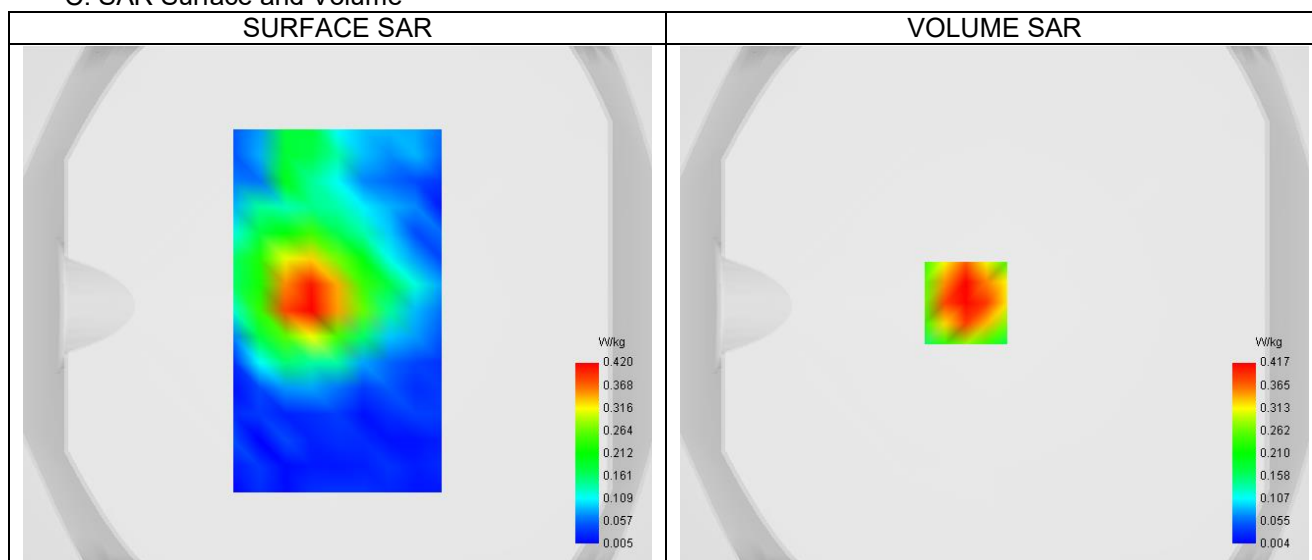
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.35
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels	Middle (20175)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	1732.500
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume



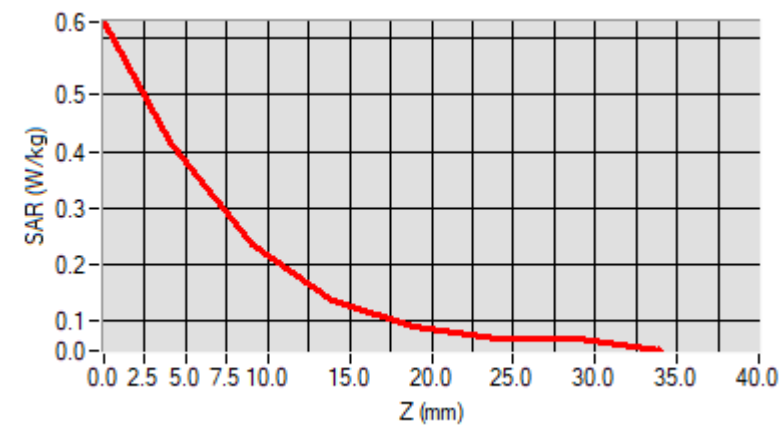
Maximum location: X=-11.00, Y=1.00 ; SAR Peak: 0.72 W/kg

D. SAR 1g & 10g

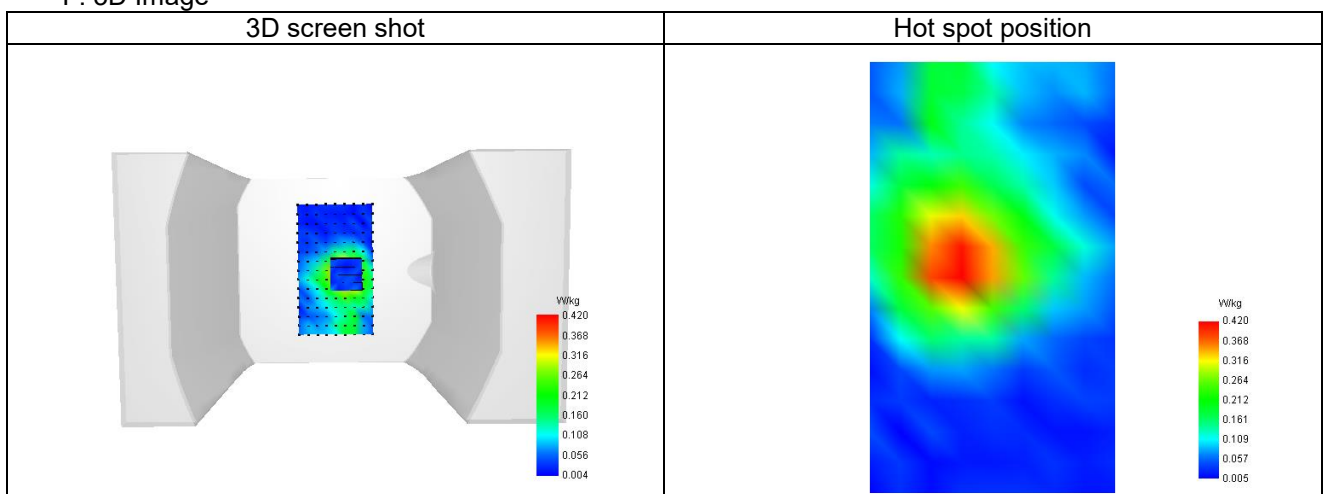
SAR 10g (W/Kg)	0.242
SAR 1g (W/Kg)	0.421
Variation (%)	-1.590
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	56.566904

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.629	0.417	0.237	0.136	0.091	0.068	0.069



F. 3D Image



Plot 15

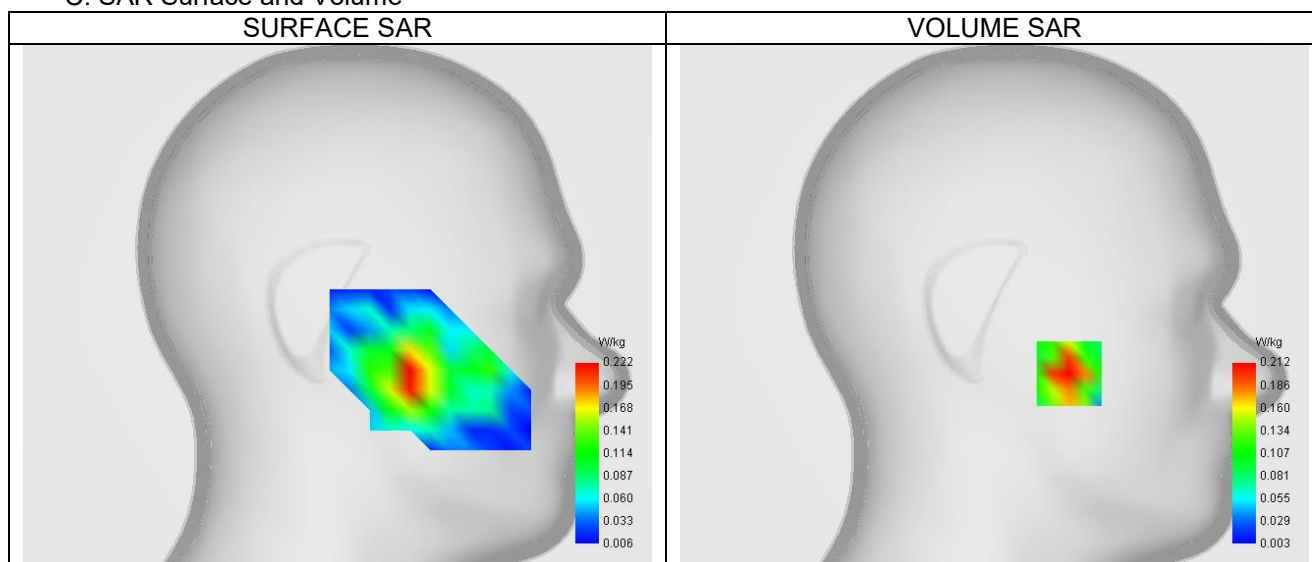
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Channels	High (20600)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	848.300
Relative permittivity (real part)	42.285
Relative permittivity (imaginary part)	20.225
Conductivity (S/m)	0.940

C. SAR Surface and Volume

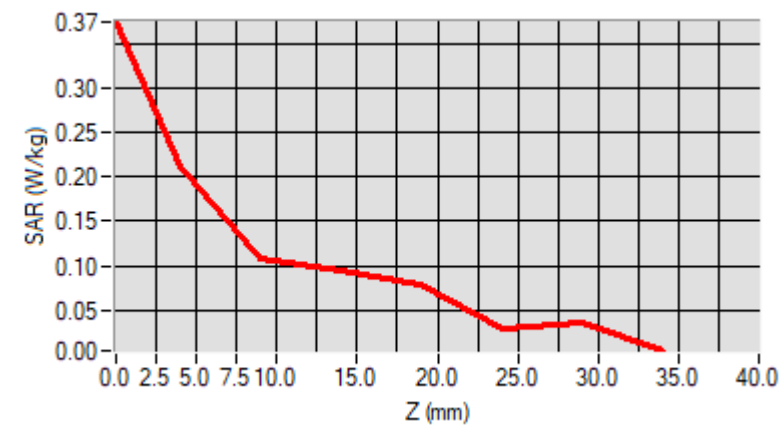


D. SAR 1g & 10g

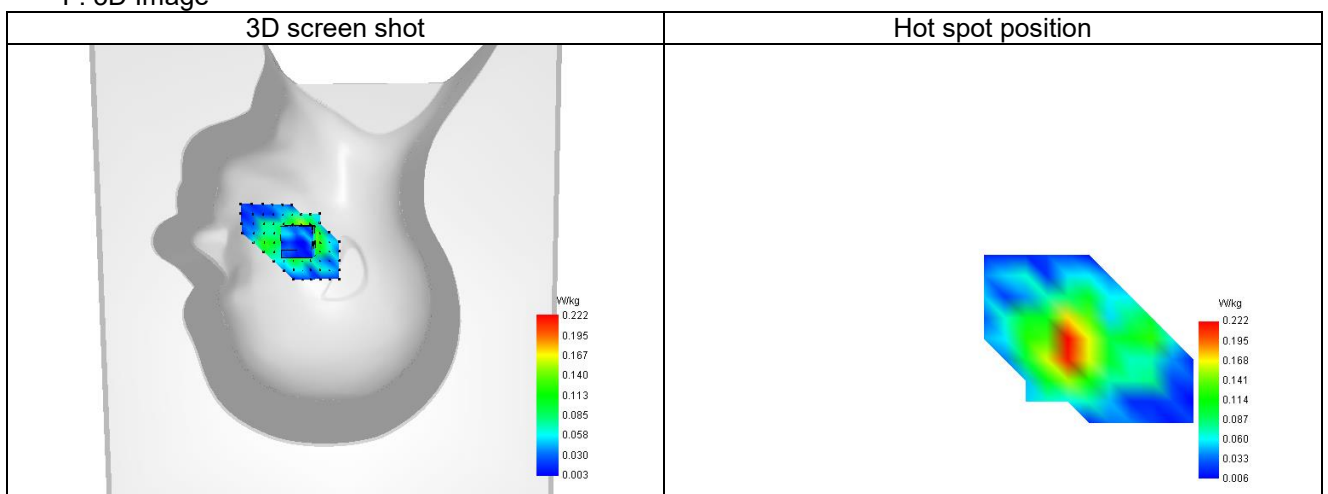
SAR 10g (W/Kg)	0.115
SAR 1g (W/Kg)	0.217
Variation (%)	-3.290
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	50.592989

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.374	0.212	0.107	0.095	0.080	0.030	0.036



F. 3D Image



Plot 16

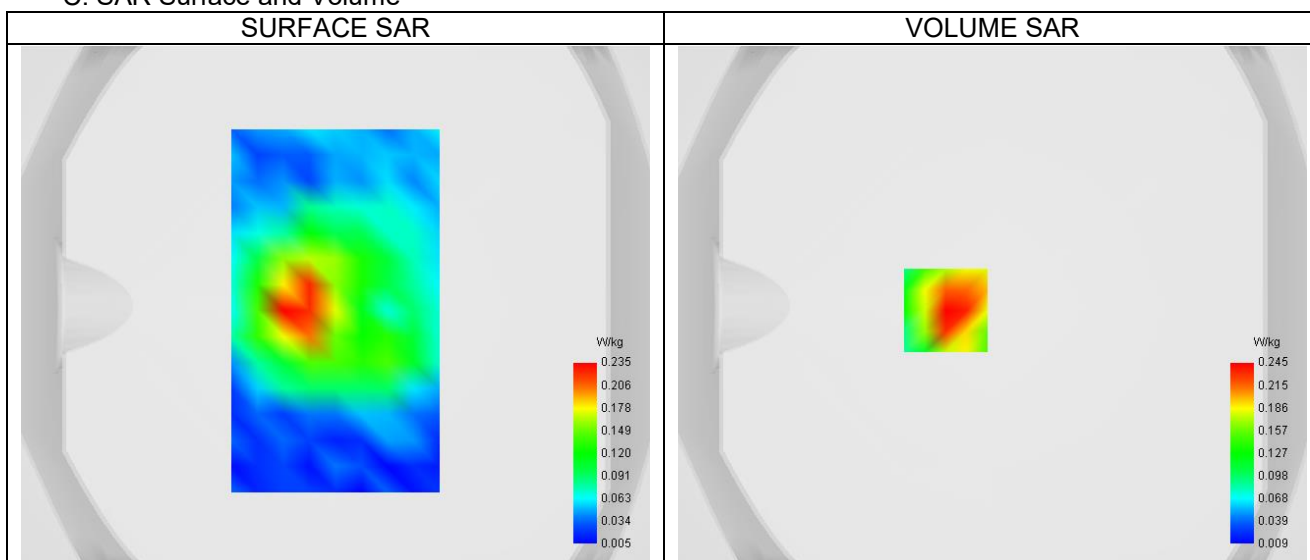
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.01
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	High (20600)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	848.300
Relative permittivity (real part)	42.285
Relative permittivity (imaginary part)	20.225
Conductivity (S/m)	0.940

C. SAR Surface and Volume



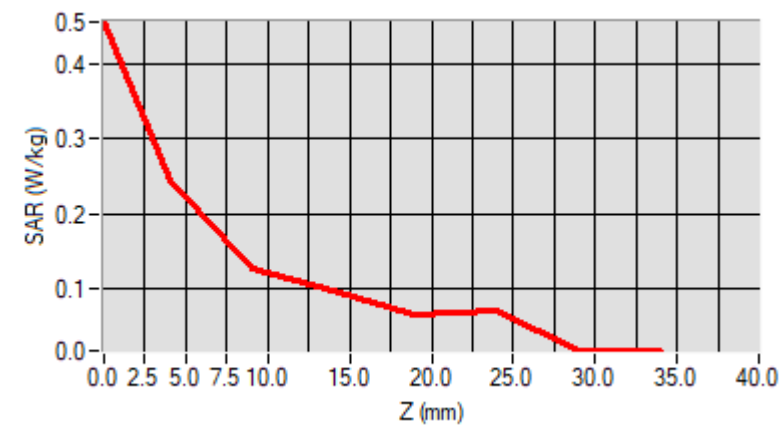
Maximum location: X=-18.00, Y=-2.00 ; SAR Peak: 0.47 W/kg

D. SAR 1g & 10g

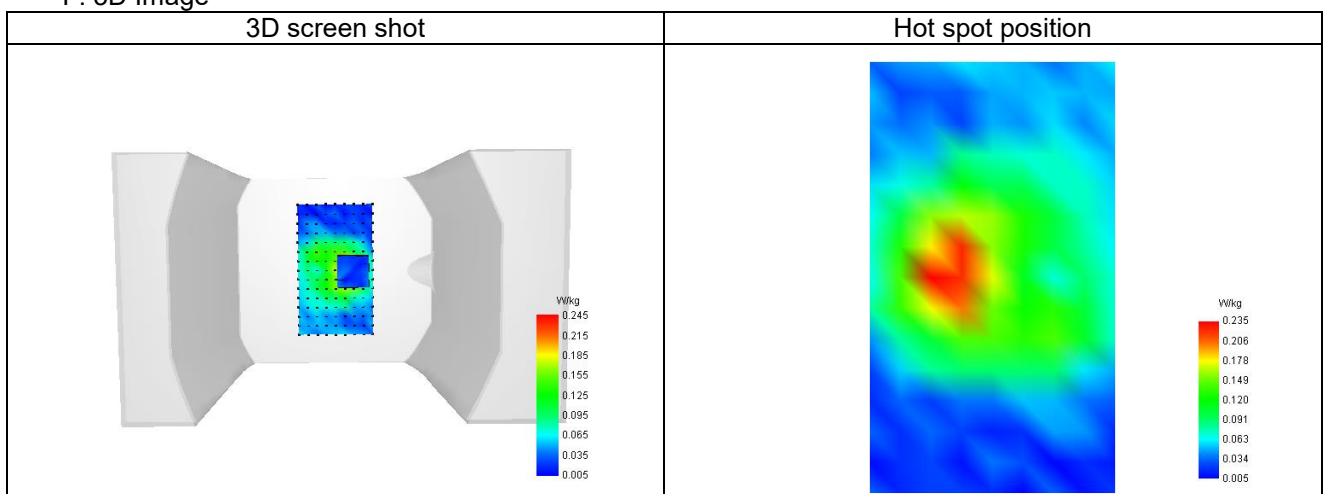
SAR 10g (W/Kg)	0.141
SAR 1g (W/Kg)	0.257
Variation (%)	3.540
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	52.363635

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.456	0.245	0.128	0.098	0.064	0.072	0.017



F. 3D Image



Plot 17

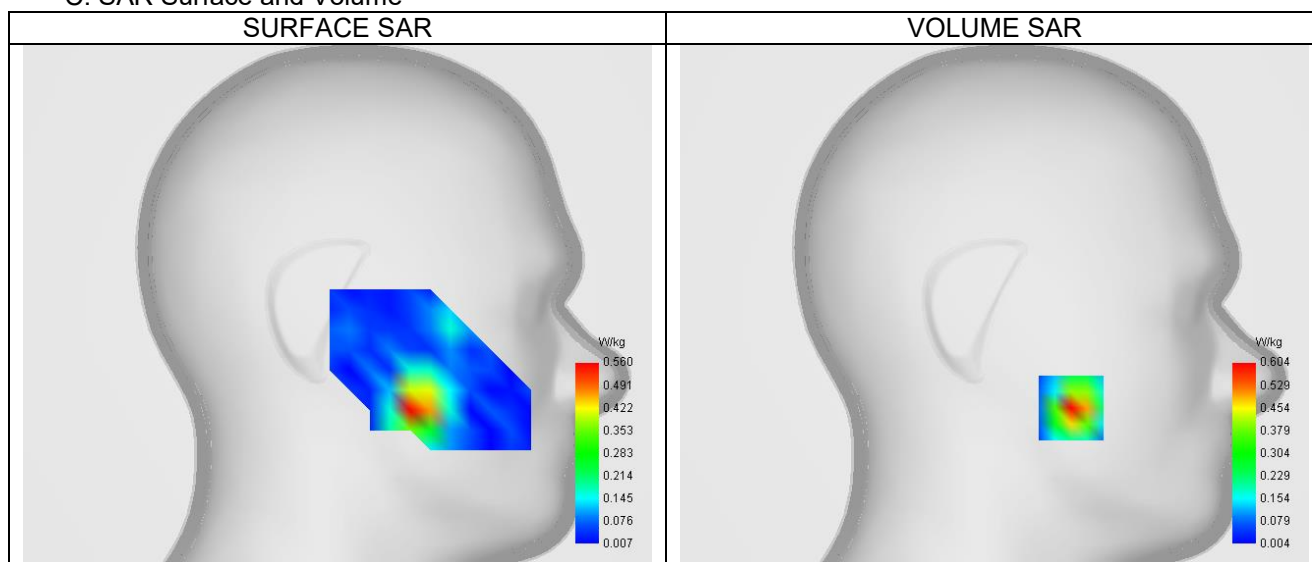
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.63
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 7
Channels	Middle (21100)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	39.087
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.890

C. SAR Surface and Volume

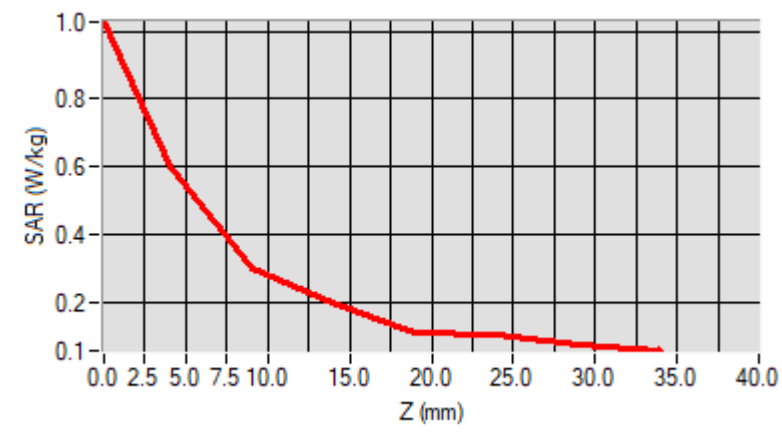


D. SAR 1g & 10g

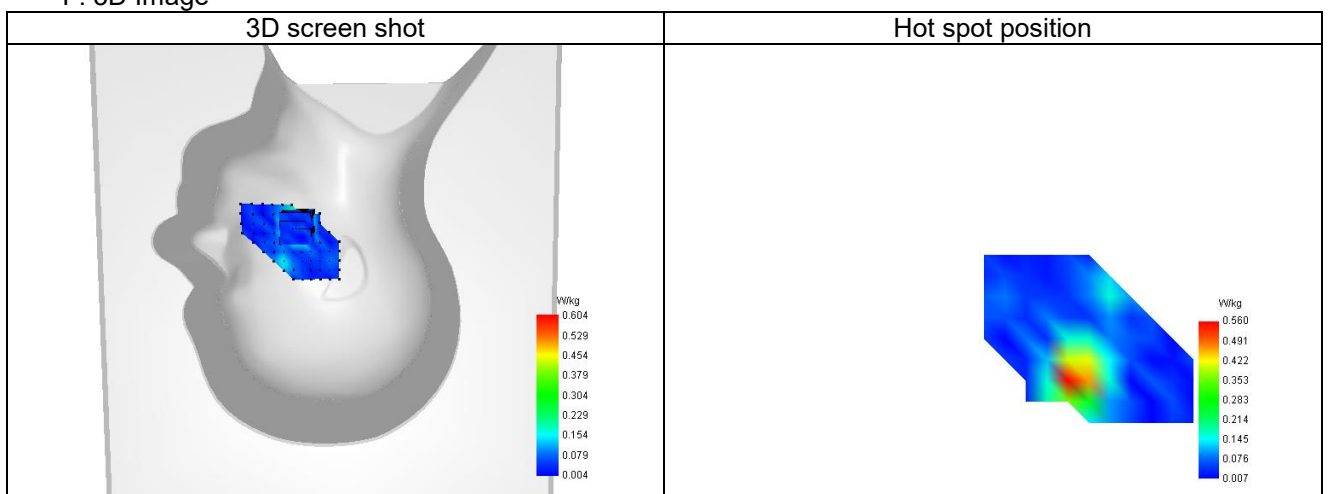
SAR 10g (W/Kg)	0.250
SAR 1g (W/Kg)	0.543
Variation (%)	-3.590
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.350311

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.027	0.604	0.304	0.199	0.115	0.110	0.075



F. 3D Image



Plot 18

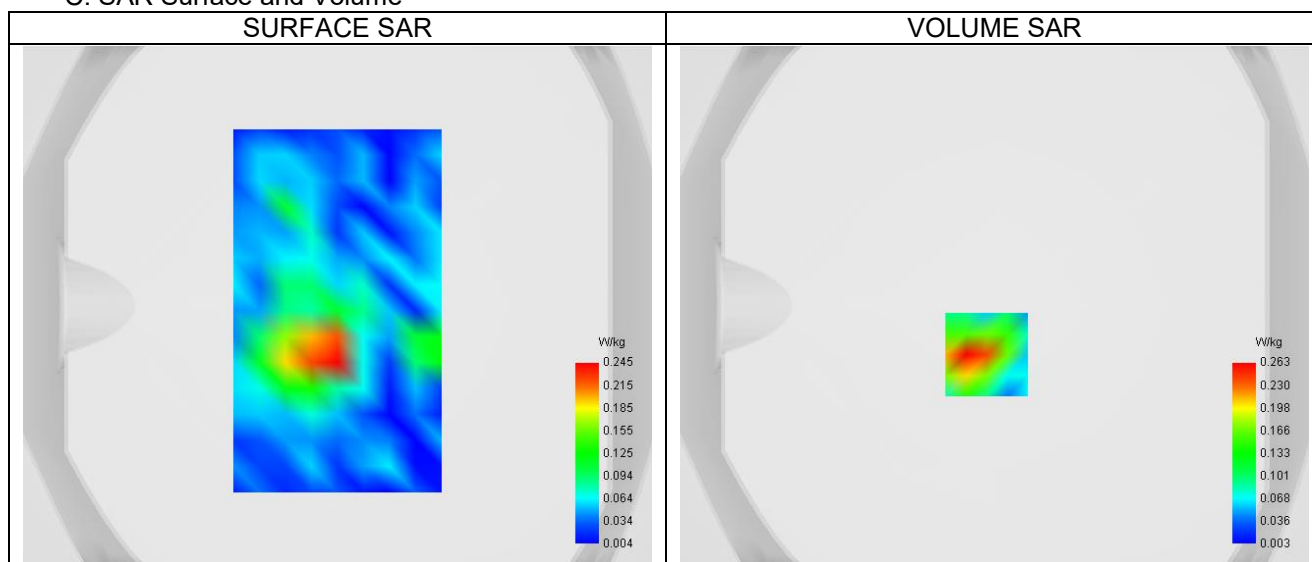
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.63
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels	Middle (21100)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2535.000
Relative permittivity (real part)	39.087
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.890

C. SAR Surface and Volume



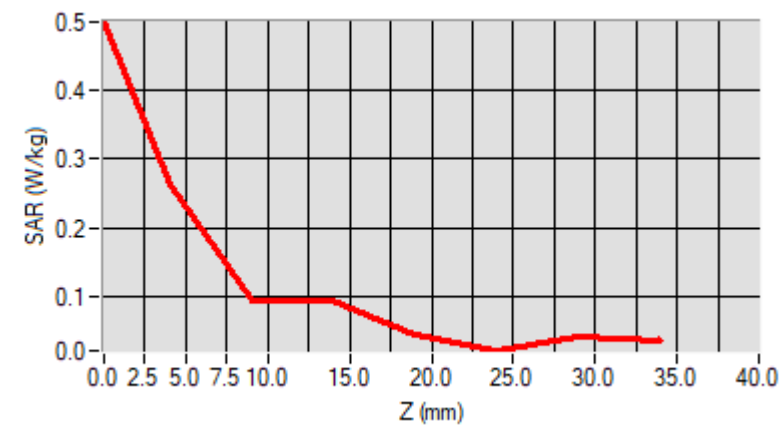
Maximum location: X=-3.00, Y=-19.00 ; SAR Peak: 0.44 W/kg

D. SAR 1g & 10g

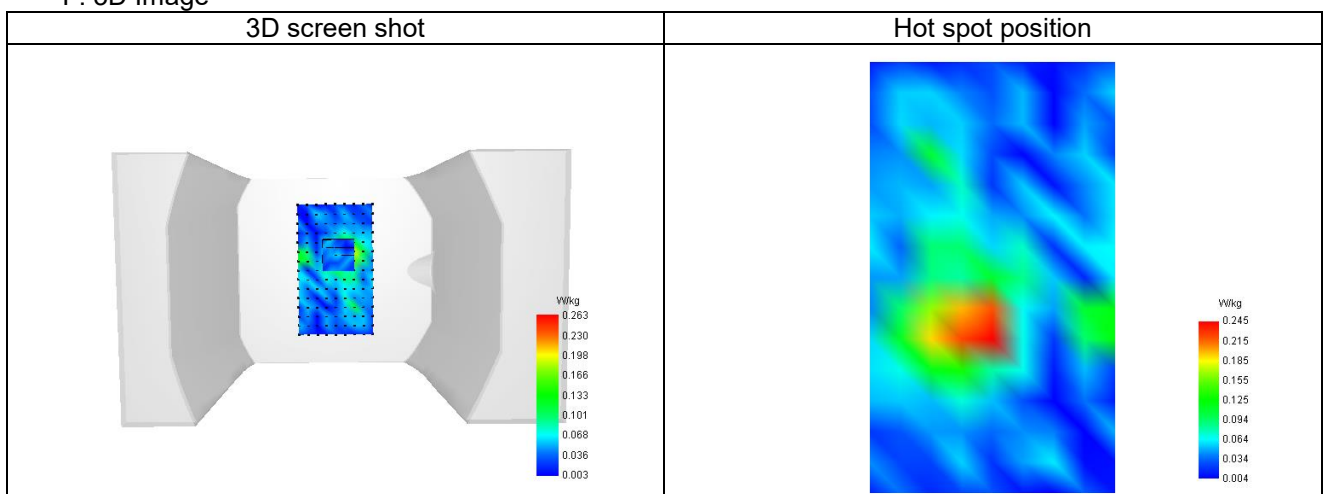
SAR 10g (W/Kg)	0.125
SAR 1g (W/Kg)	0.250
Variation (%)	-3.860
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.406079

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.498	0.263	0.096	0.095	0.045	0.022	0.042



F. 3D Image



Plot 19

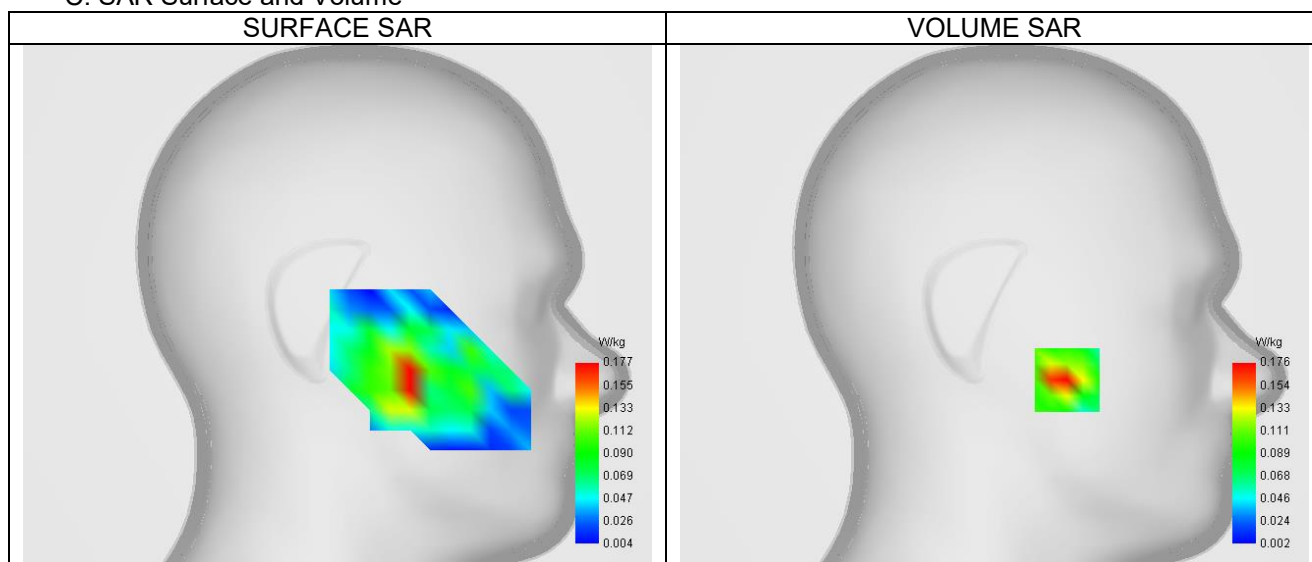
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Channels	Middle (23095)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	42.127
Relative permittivity (imaginary part)	23.264
Conductivity (S/m)	0.914

C. SAR Surface and Volume



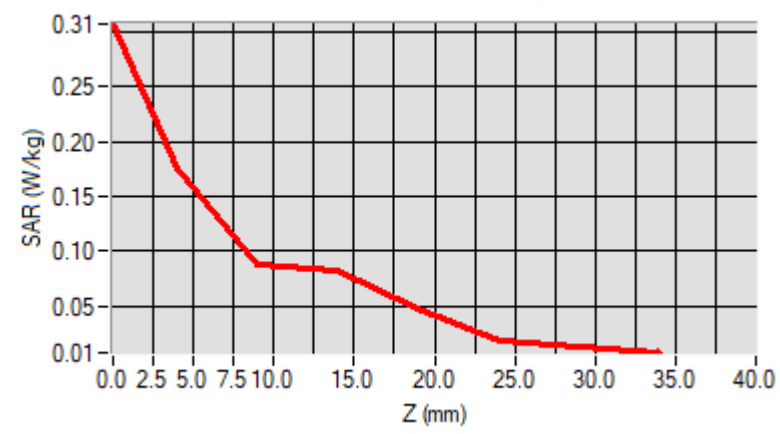
Maximum location: X=-36.00, Y=-37.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

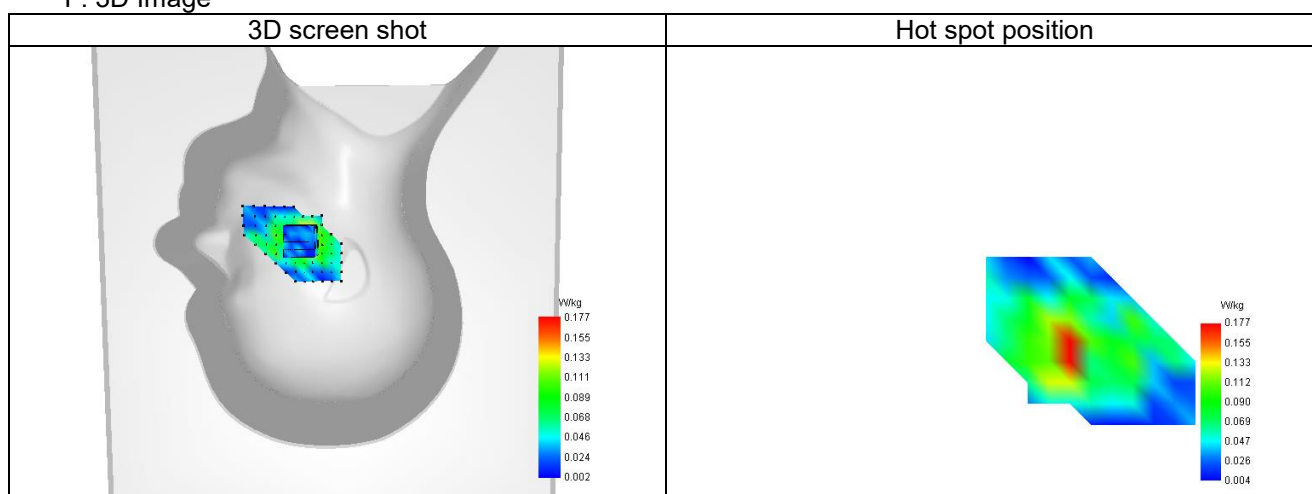
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.179
Variation (%)	-2.490
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.169749

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.307	0.176	0.088	0.083	0.048	0.019	0.012



F. 3D Image



Plot 20

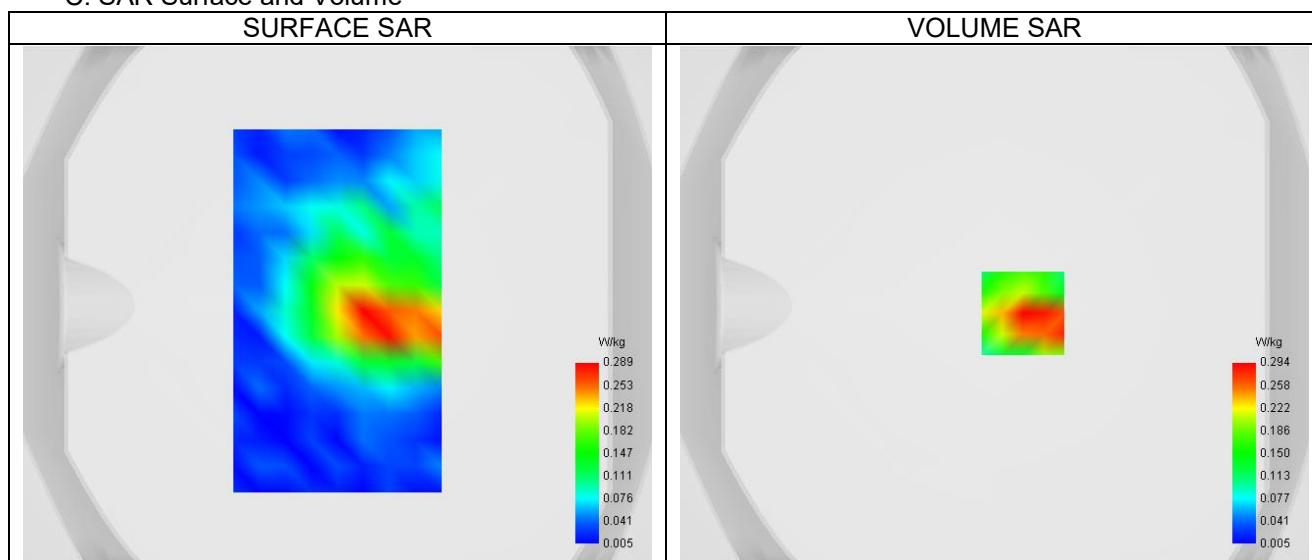
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels	Middle (23095)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	707.500
Relative permittivity (real part)	42.127
Relative permittivity (imaginary part)	23.264
Conductivity (S/m)	0.914

C. SAR Surface and Volume

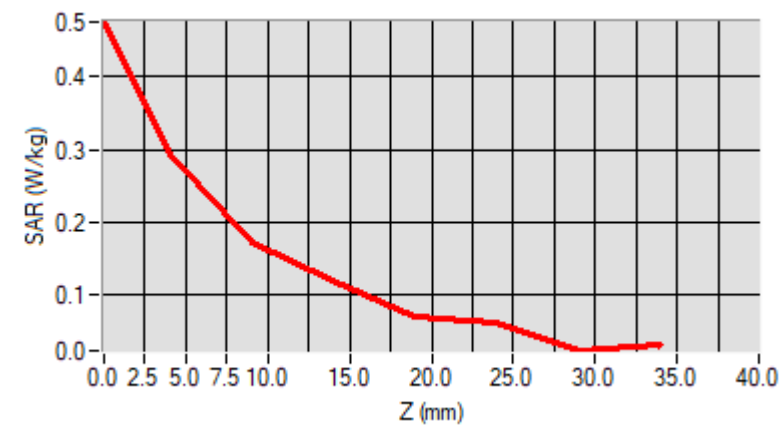


D. SAR 1g & 10g

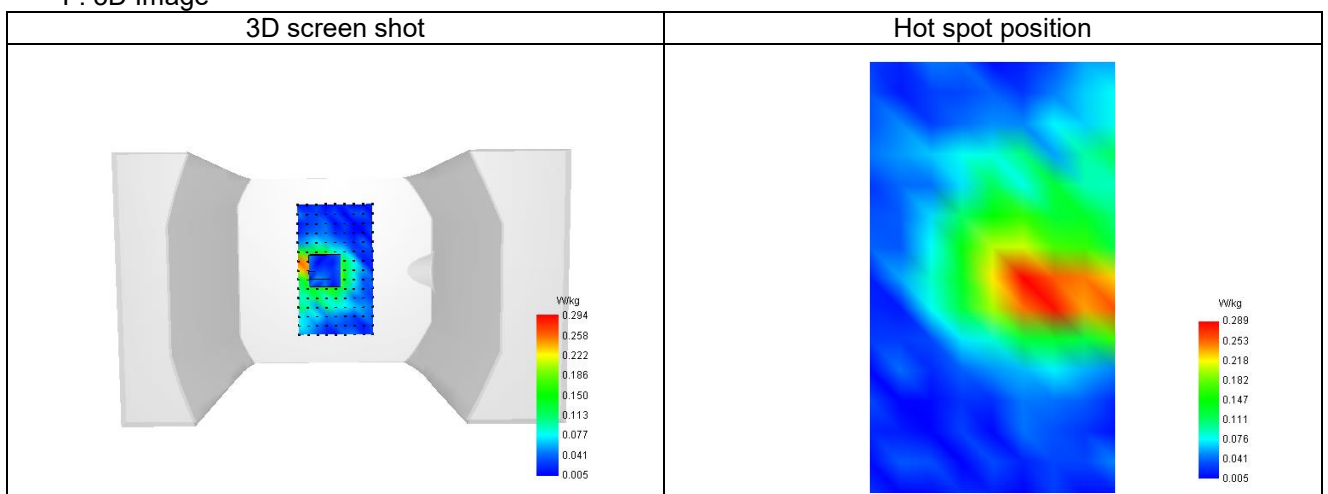
SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.289
Variation (%)	4.910
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.276030

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.476	0.294	0.172	0.120	0.070	0.062	0.024



F. 3D Image



Plot 21

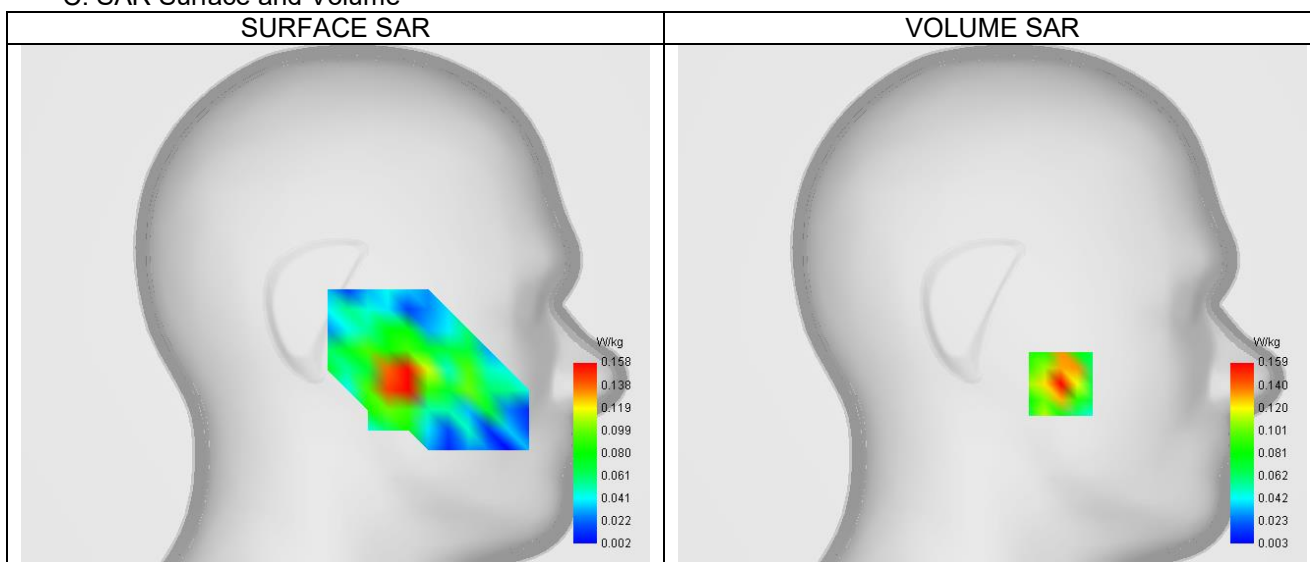
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	LTE band 17
Channels	High (23800)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	711.000
Relative permittivity (real part)	42.113
Relative permittivity (imaginary part)	23.152
Conductivity (S/m)	0.913

C. SAR Surface and Volume



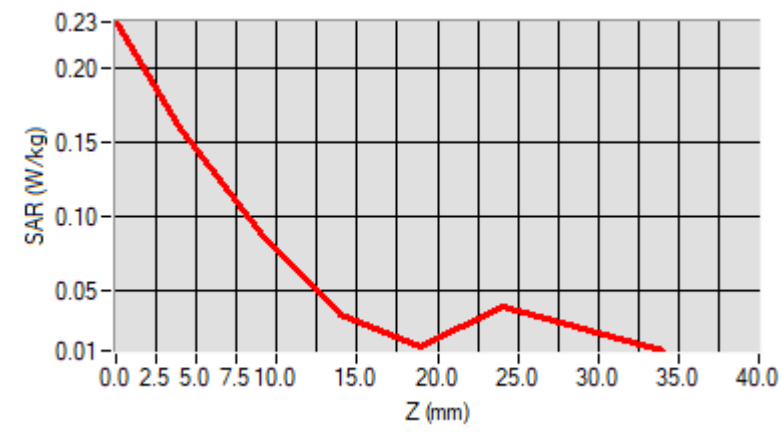
Maximum location: X=-34.00, Y=-39.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

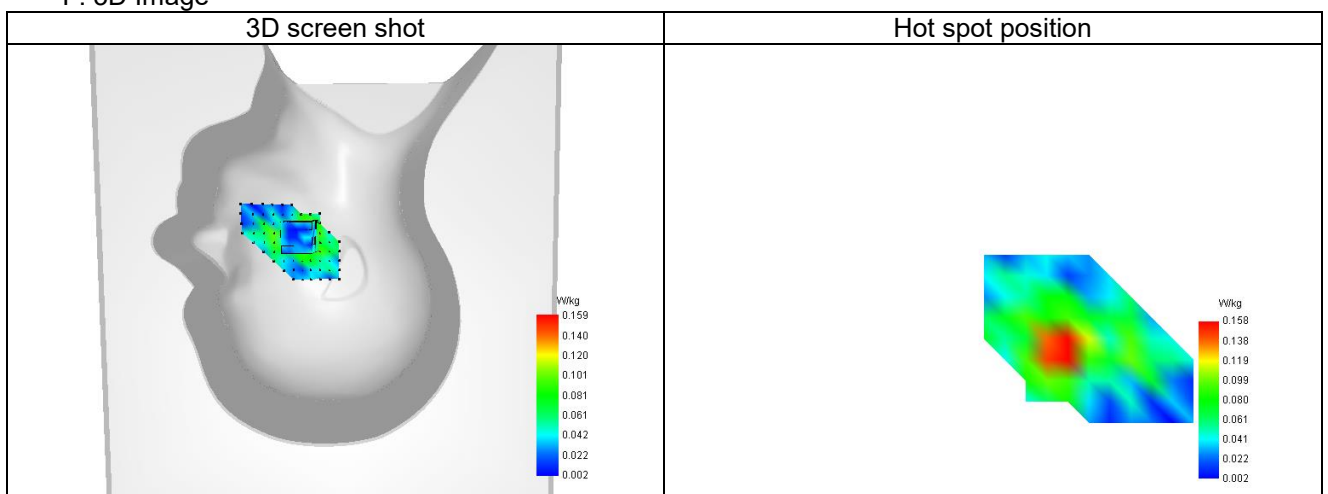
SAR 10g (W/Kg)	0.085
SAR 1g (W/Kg)	0.152
Variation (%)	4.140
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.987653

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.230	0.159	0.089	0.034	0.012	0.040	0.024



F. 3D Image



Plot 22

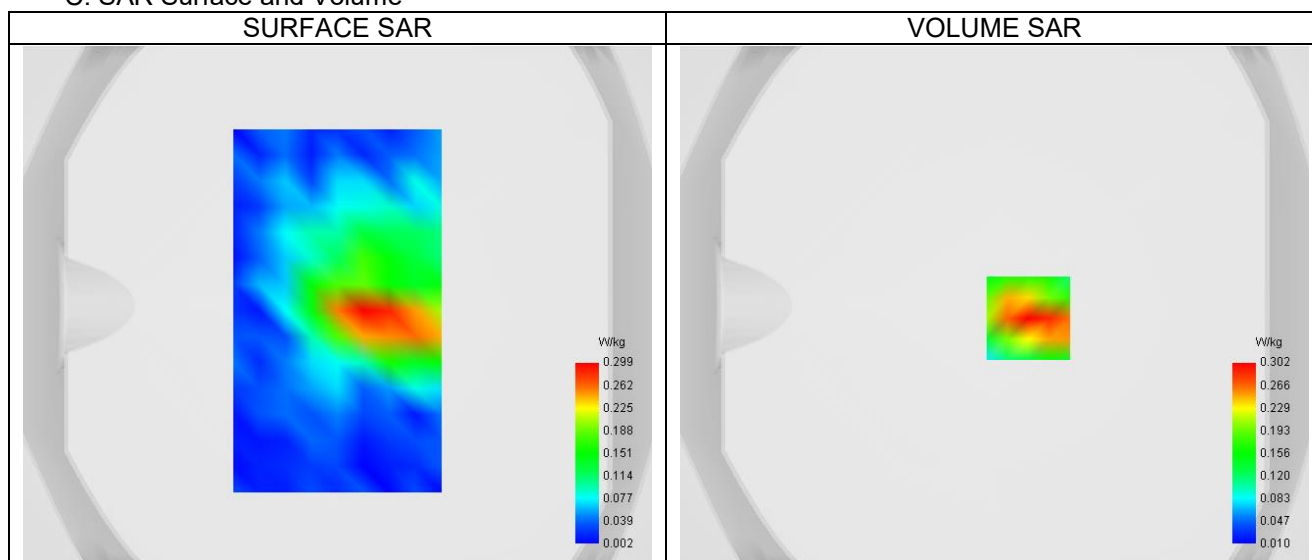
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels	Middle (23800)
Signal	LTE (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	710.000
Relative permittivity (real part)	42.113
Relative permittivity (imaginary part)	23.152
Conductivity (S/m)	0.913

C. SAR Surface and Volume

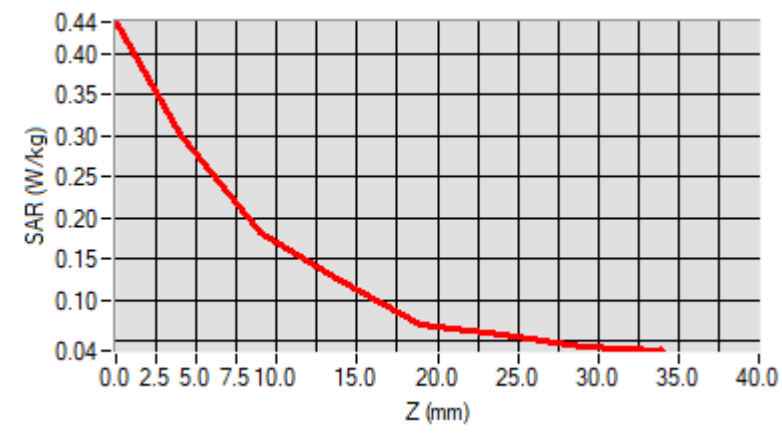


D. SAR 1g & 10g

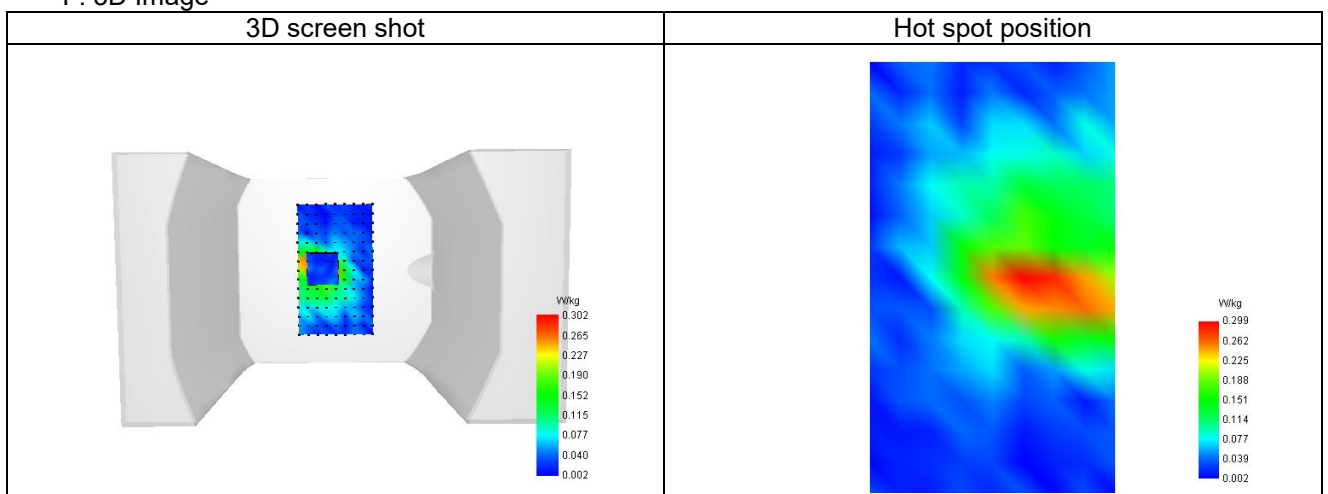
SAR 10g (W/Kg)	0.164
SAR 1g (W/Kg)	0.289
Variation (%)	0.440
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.377800

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.439	0.302	0.183	0.123	0.069	0.057	0.043



F. 3D Image



Plot 23

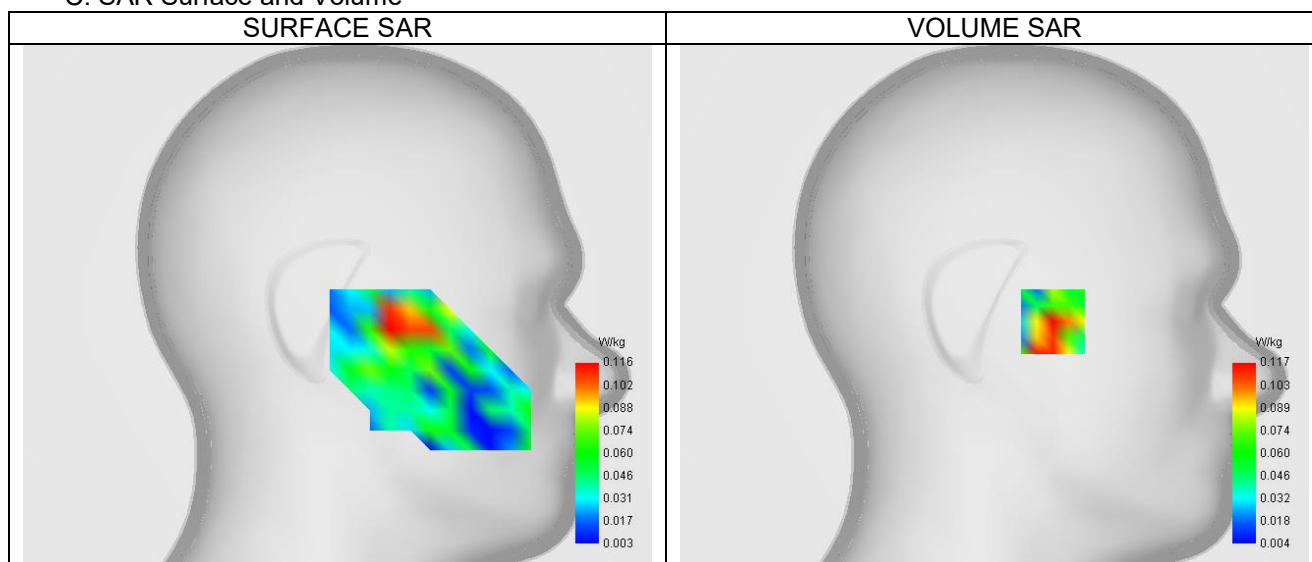
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	Bluetooth
Channels	Low (00)
Signal	Bluetooth (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2402.000
Relative permittivity (real part)	39.202
Relative permittivity (imaginary part)	13.219
Conductivity (S/m)	1.799

C. SAR Surface and Volume



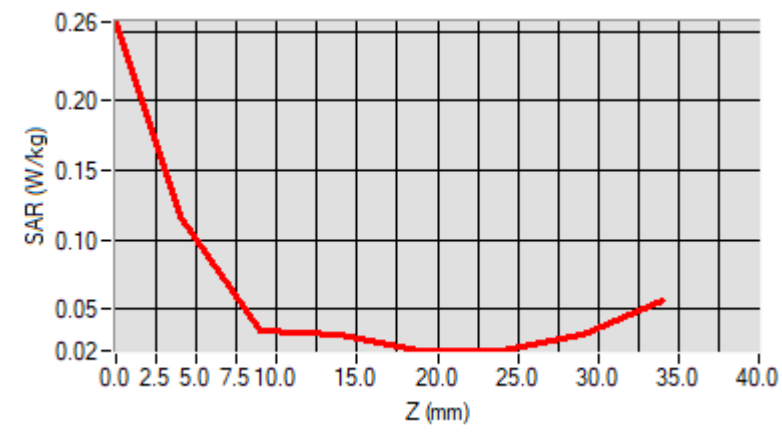
Maximum location: X=-29.00, Y=-8.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

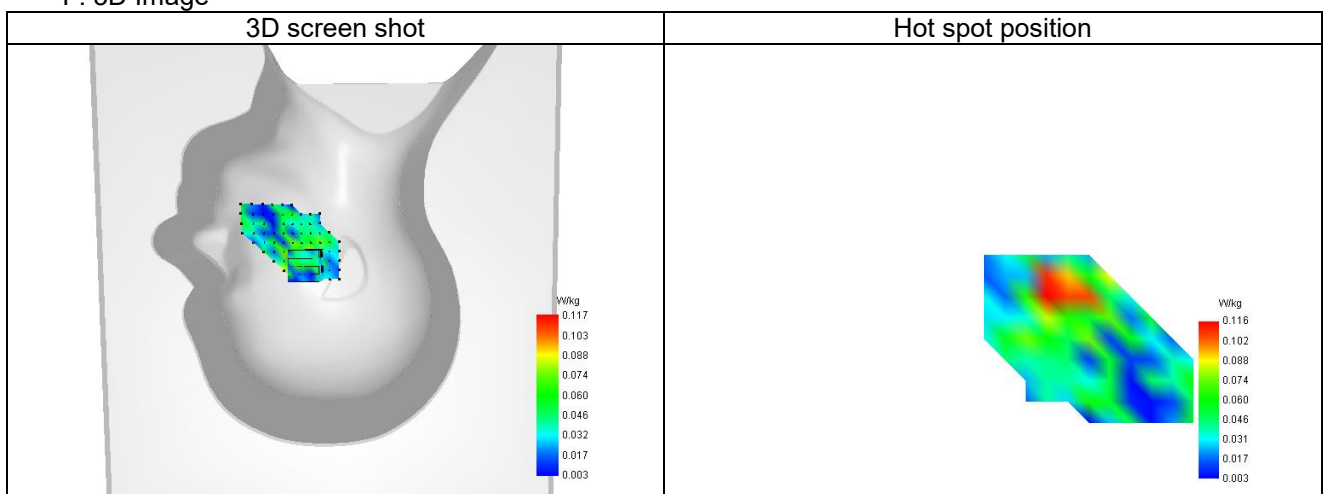
SAR 10g (W/Kg)	0.057
SAR 1g (W/Kg)	0.114
Variation (%)	1.550
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	29.648067

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.257	0.117	0.035	0.032	0.020	0.021	0.031



F. 3D Image



Plot 24

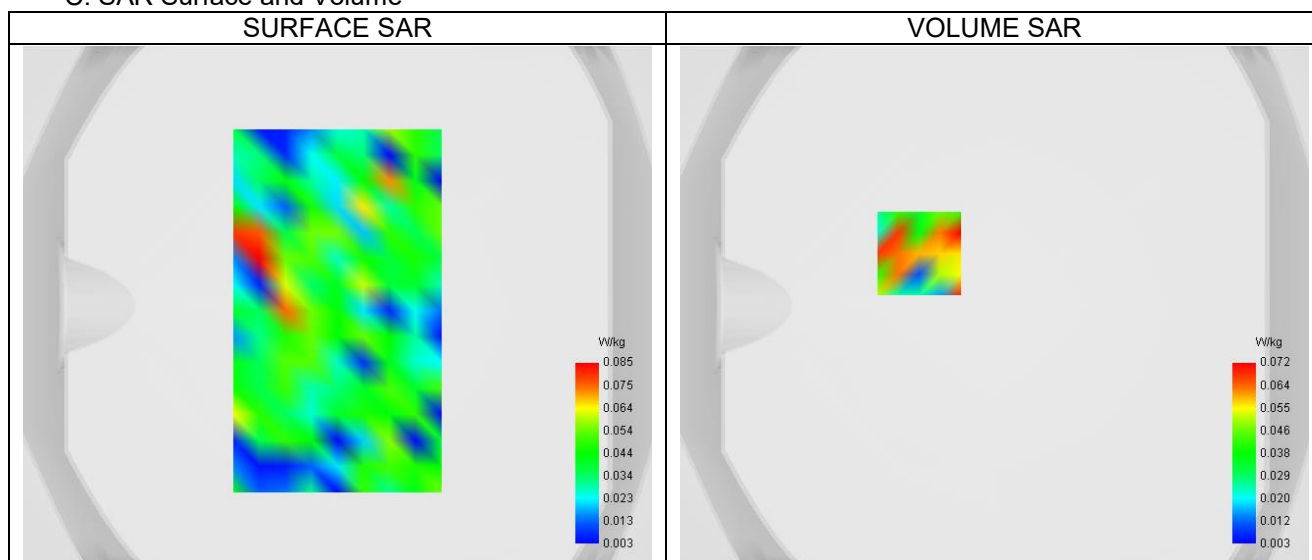
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Bluetooth
Channels	Low (00)
Signal	Bluetooth (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2402.000
Relative permittivity (real part)	39.202
Relative permittivity (imaginary part)	13.219
Conductivity (S/m)	1.799

C. SAR Surface and Volume



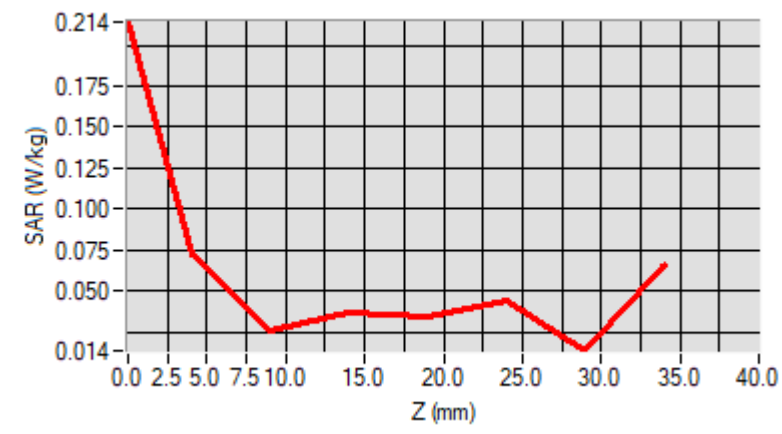
Maximum location: X=-29.00, Y=20.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

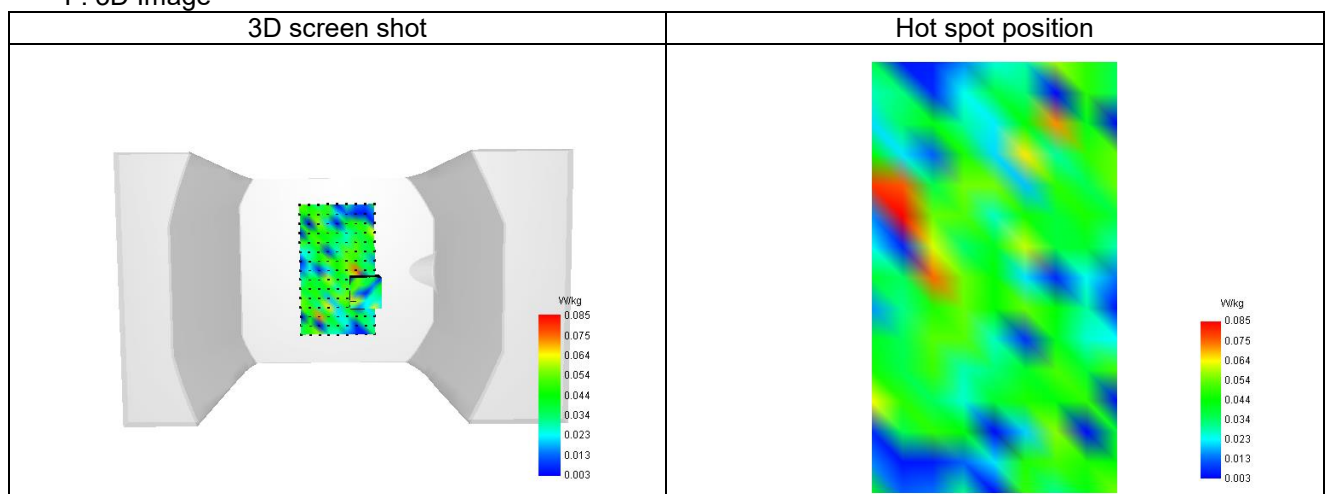
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.077
Variation (%)	0.820
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	44.015132

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.214	0.072	0.026	0.037	0.034	0.044	0.014



F. 3D Image



Plot 25

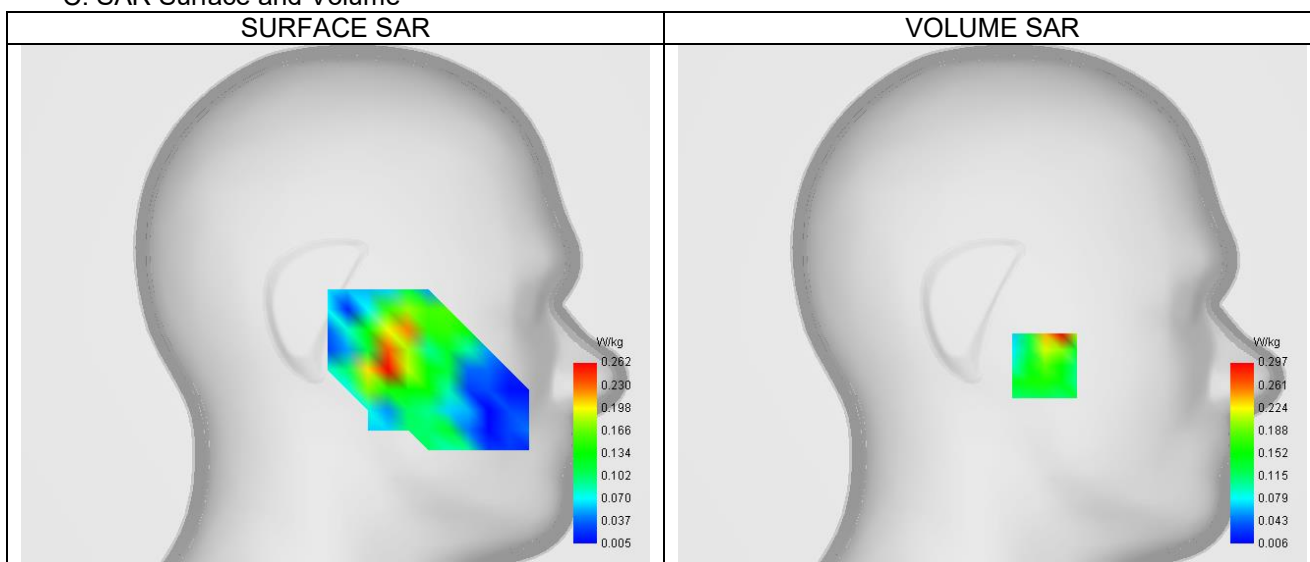
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	High (11)
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.226
Relative permittivity (imaginary part)	13.207
Conductivity (S/m)	1.788

C. SAR Surface and Volume

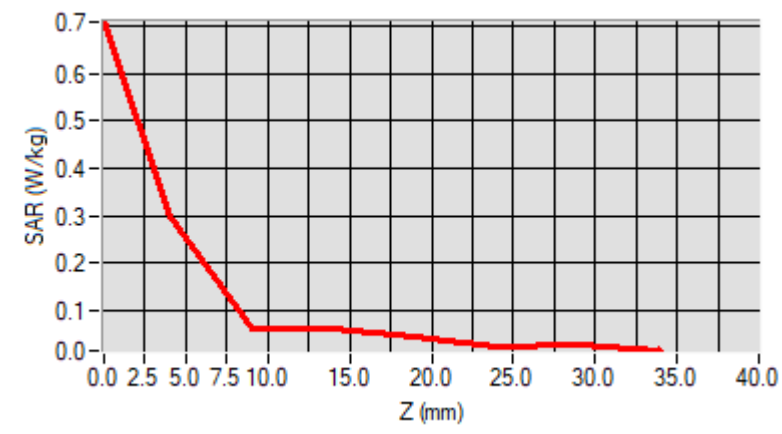


D. SAR 1g & 10g

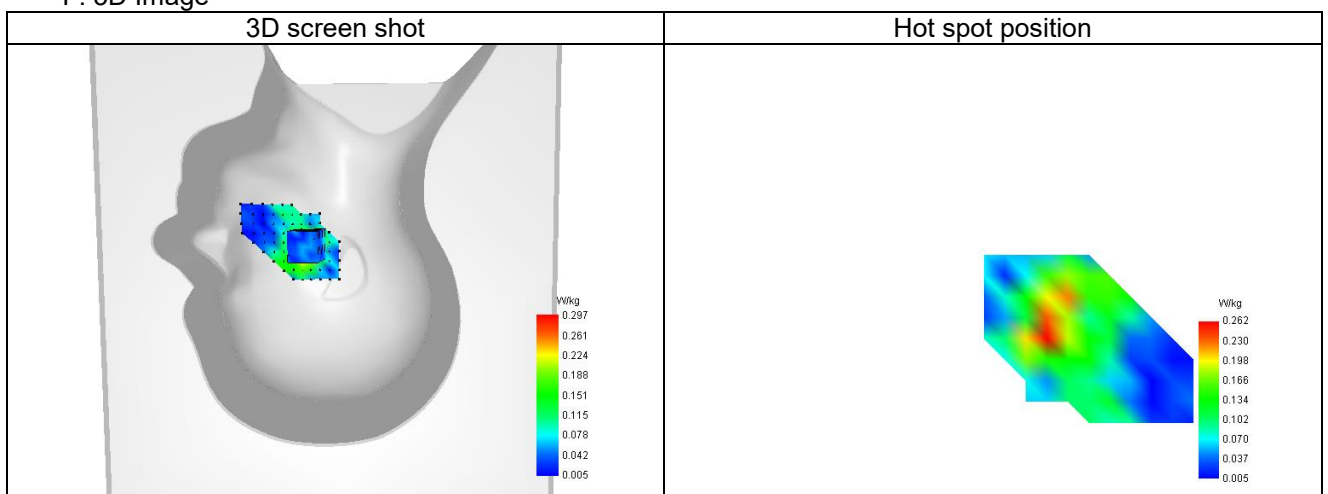
SAR 10g (W/Kg)	0.127
SAR 1g (W/Kg)	0.254
Variation (%)	-1.700
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.003442

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.709	0.297	0.062	0.062	0.044	0.023	0.029



F. 3D Image



Plot 26

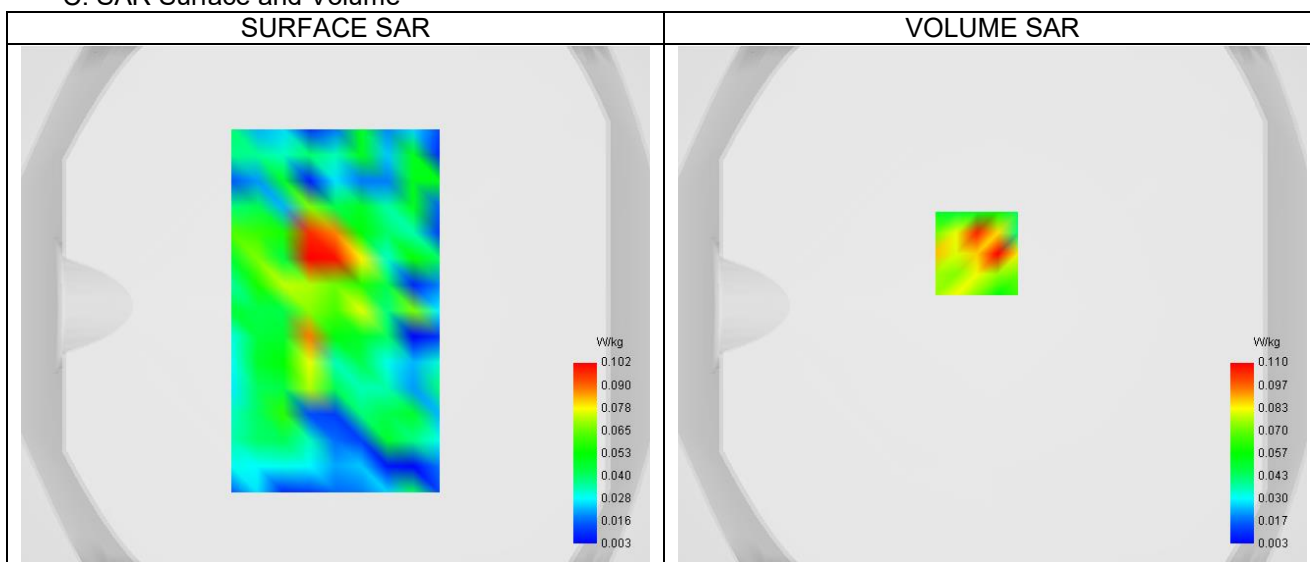
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	3.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	High (11)
Signal	IEEE802.b (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	2437.000
Relative permittivity (real part)	39.226
Relative permittivity (imaginary part)	13.207
Conductivity (S/m)	1.788

C. SAR Surface and Volume



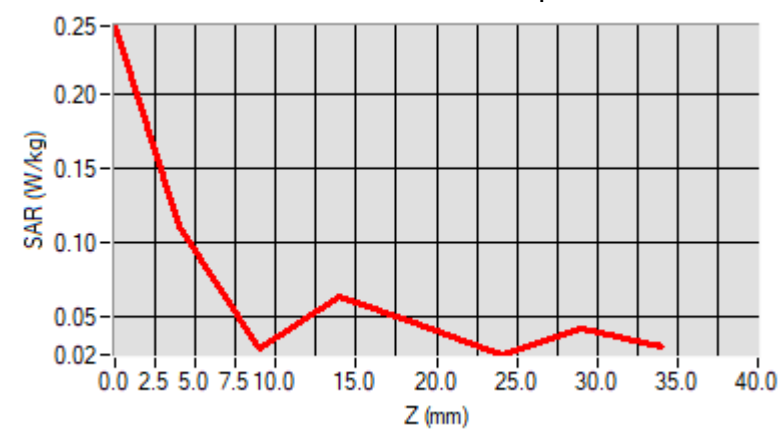
Maximum location: X=-6.00, Y=20.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

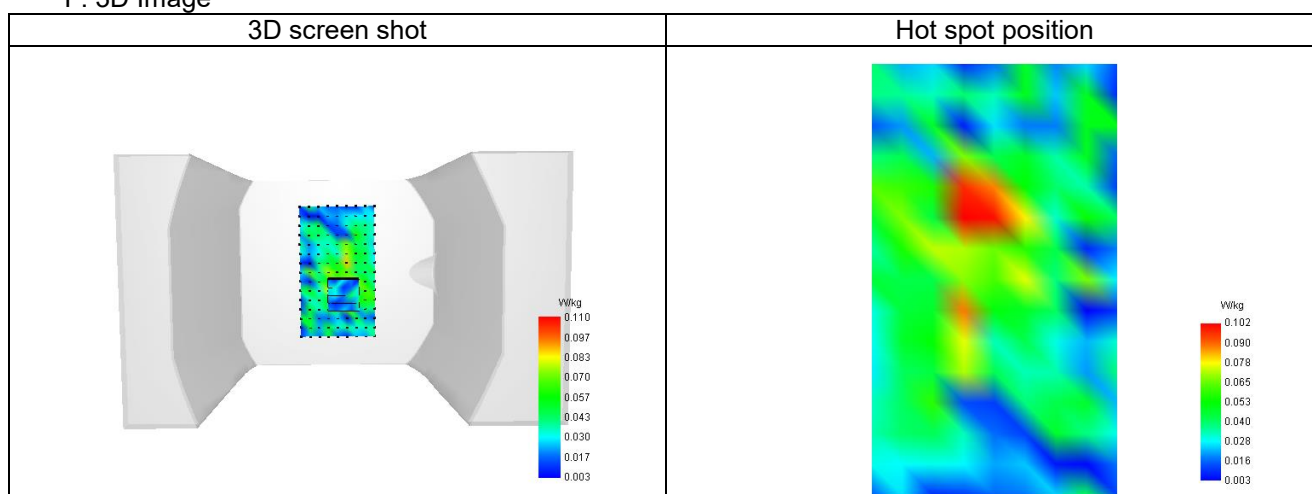
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.109
Variation (%)	3.850
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	28.569054

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.245	0.110	0.028	0.064	0.045	0.024	0.041



F. 3D Image



Plot 27

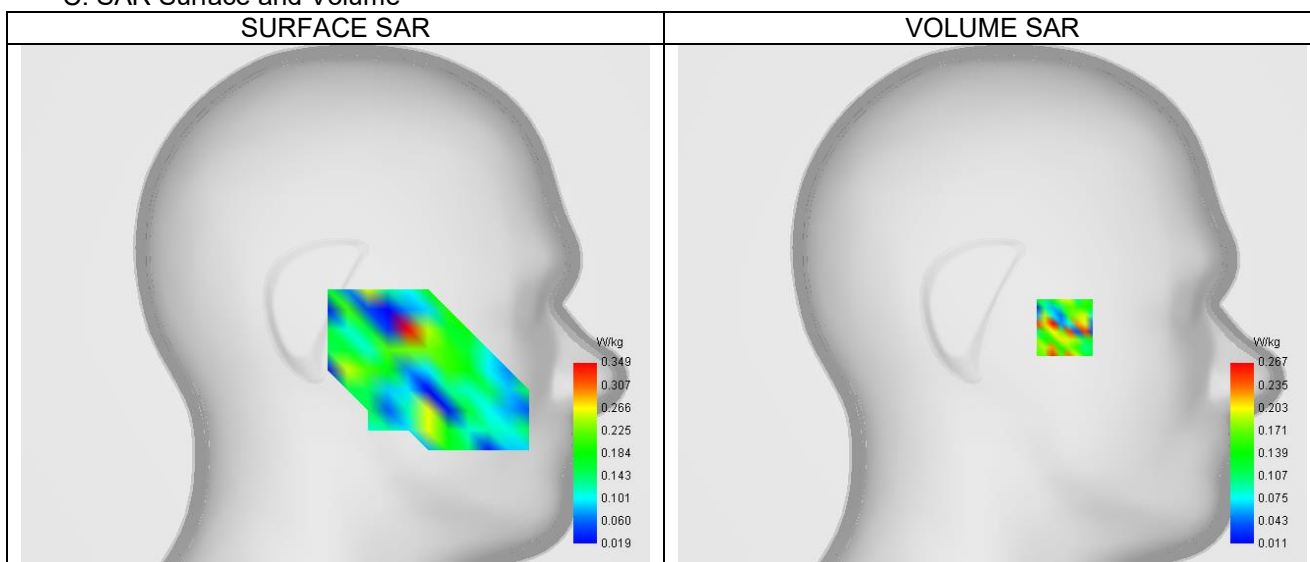
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.92
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	8x8x7,dx=4mm dy=4mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a
Channels	Middle (48)
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	35.650
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.965

C. SAR Surface and Volume



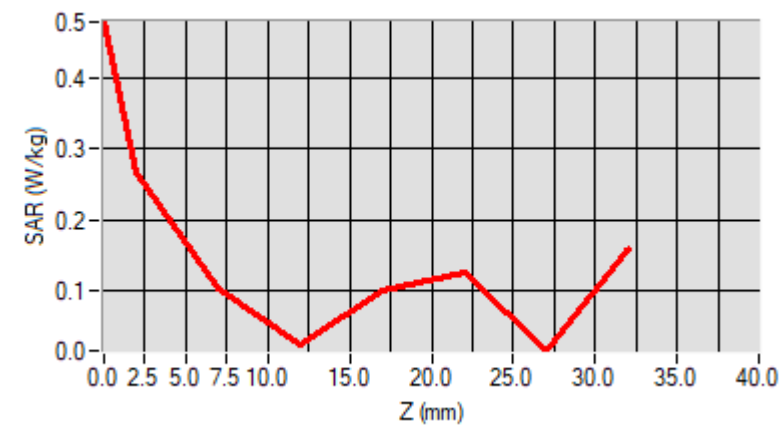
Maximum location: X=-38.00, Y=-13.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

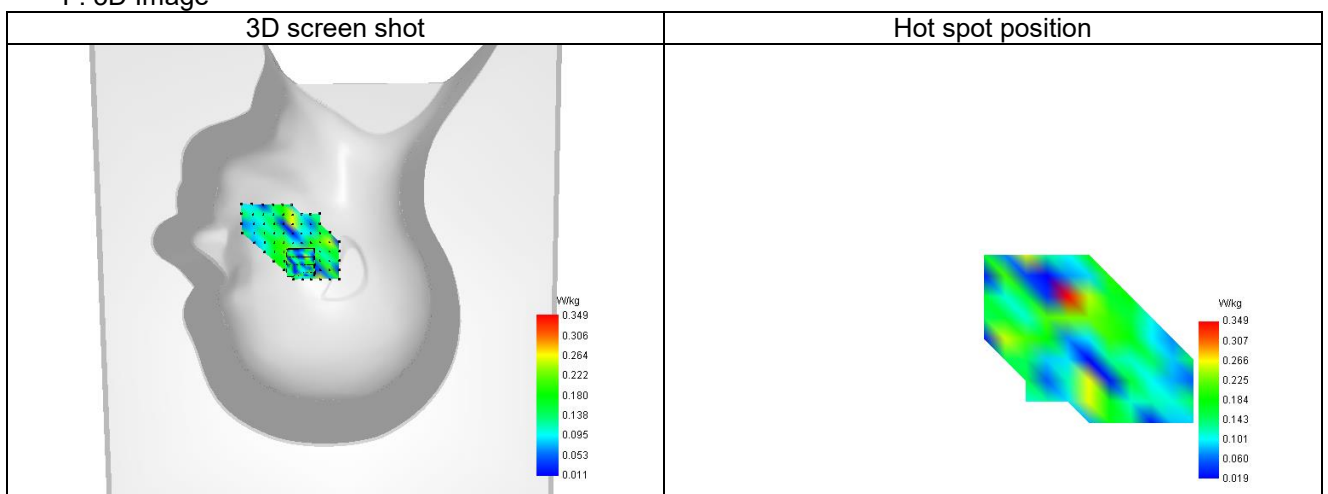
SAR 10g (W/Kg)	0.129
SAR 1g (W/Kg)	0.173
Variation (%)	2.050
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	31.843177

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	0.481	0.267	0.102	0.022	0.098	0.125	0.014



F. 3D Image



Plot 28

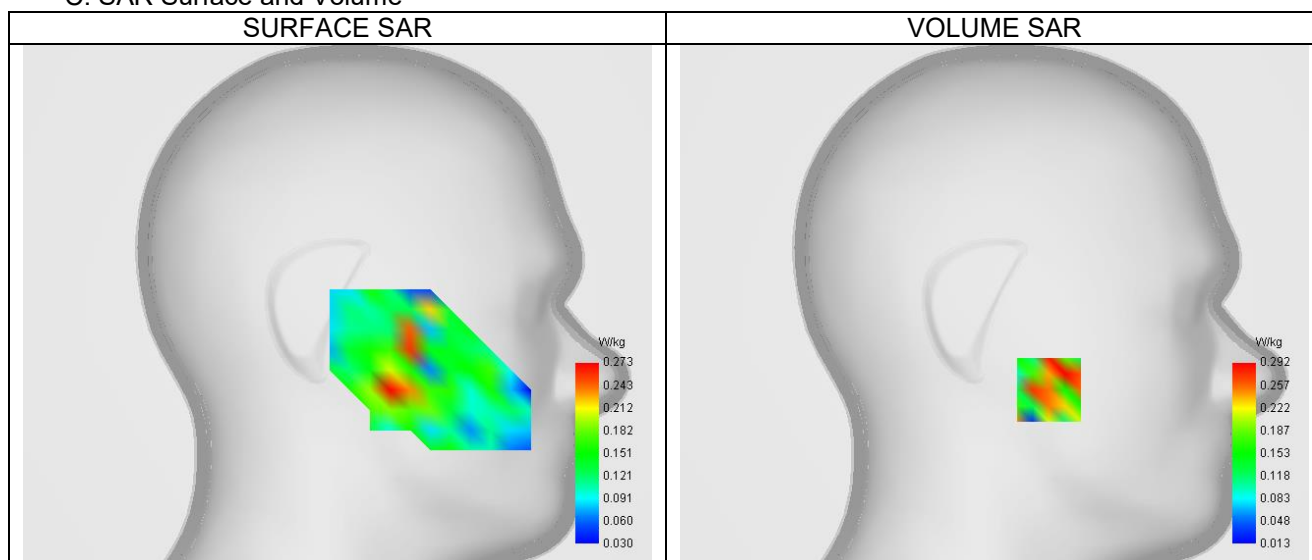
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.92
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	IEEE 802.11a
Channels	High (48)
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5240.000
Relative permittivity (real part)	35.650
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.965

C. SAR Surface and Volume



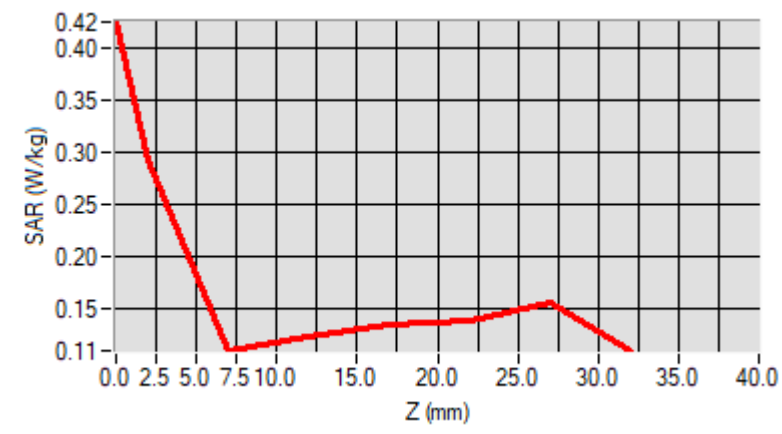
Maximum location: X=-27.00, Y=-42.00 ; SAR Peak: 0.66 W/kg

D. SAR 1g & 10g

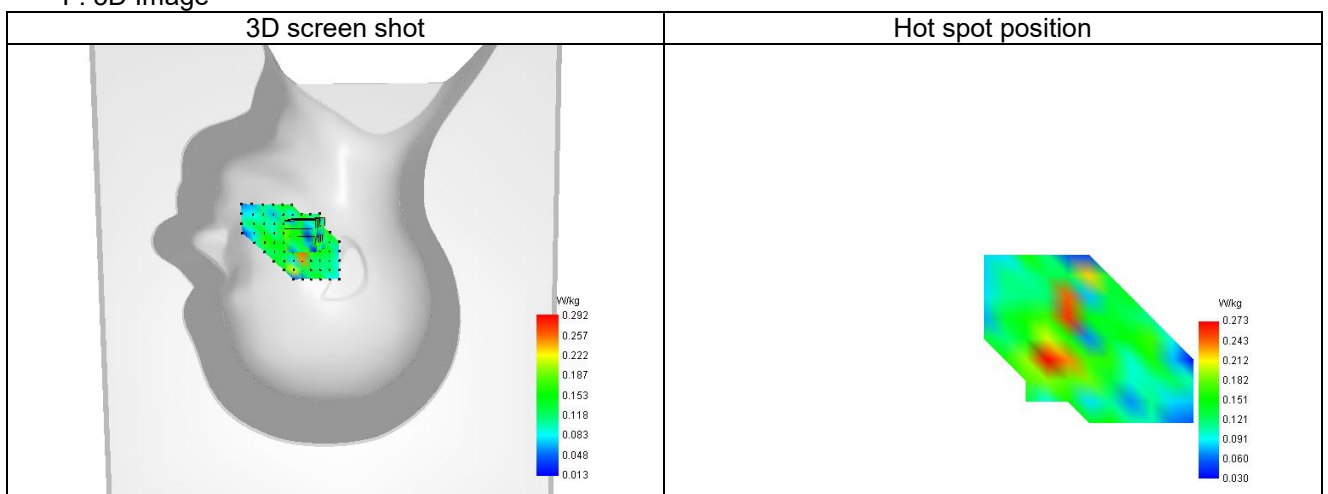
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.292
Variation (%)	-2.920
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	91.982459

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	0.425	0.292	0.109	0.122	0.133	0.138	0.155



F. 3D Image



Plot 29

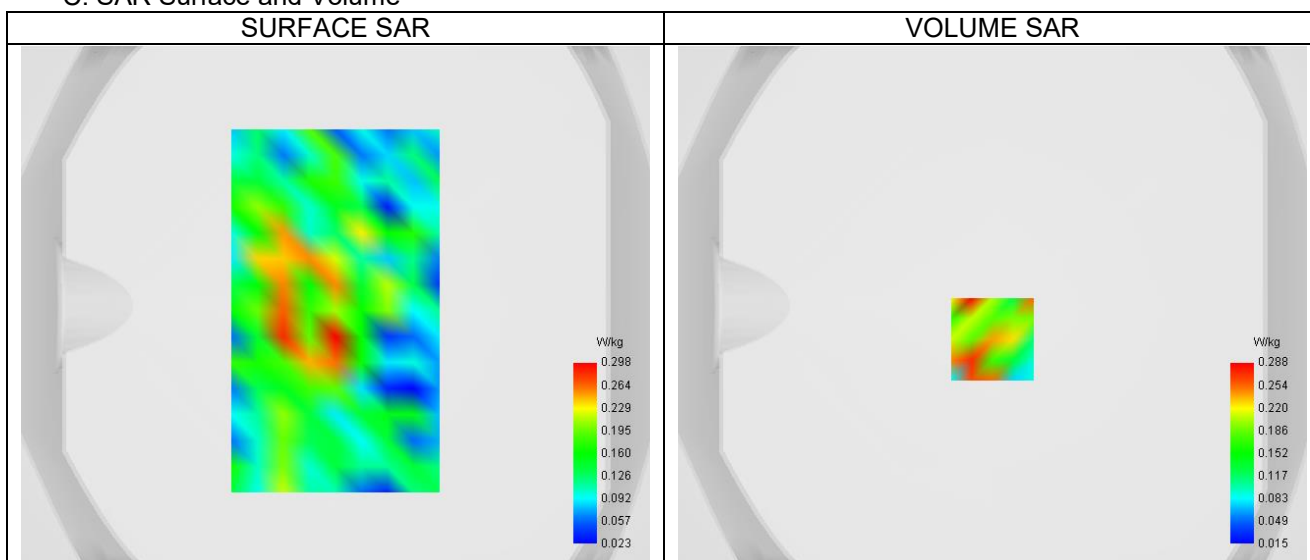
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.92
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a
Channels	Low (149)
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5745.000
Relative permittivity (real part)	35.650
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.965

C. SAR Surface and Volume

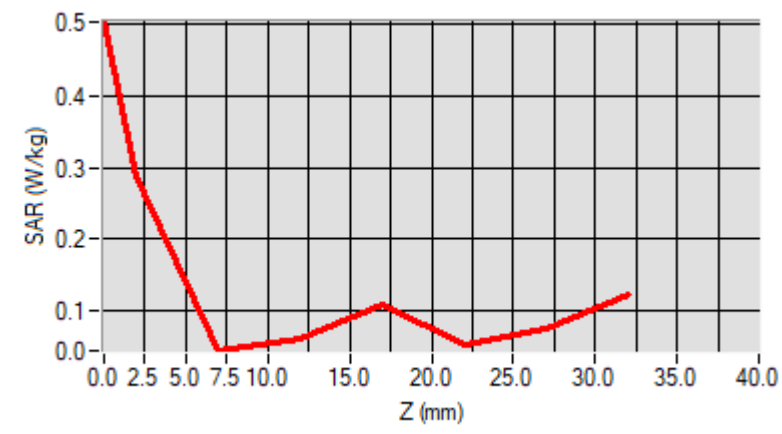


D. SAR 1g & 10g

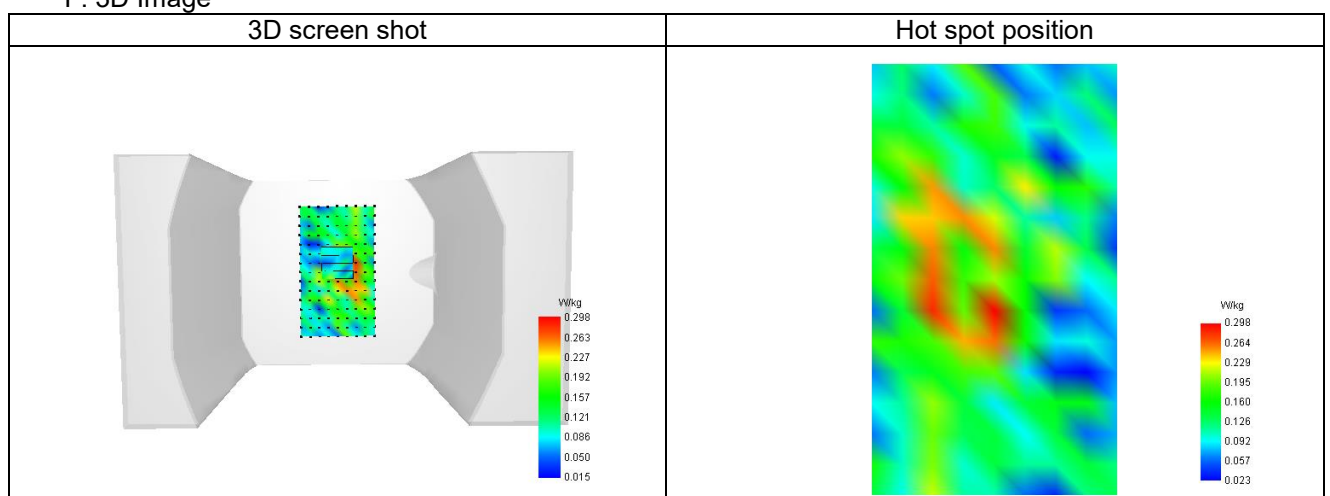
SAR 10g (W/Kg)	0.150
SAR 1g (W/Kg)	0.206
Variation (%)	4.250
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	79.037075

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	0.503	0.288	0.045	0.062	0.110	0.053	0.076



F. 3D Image



Plot 30

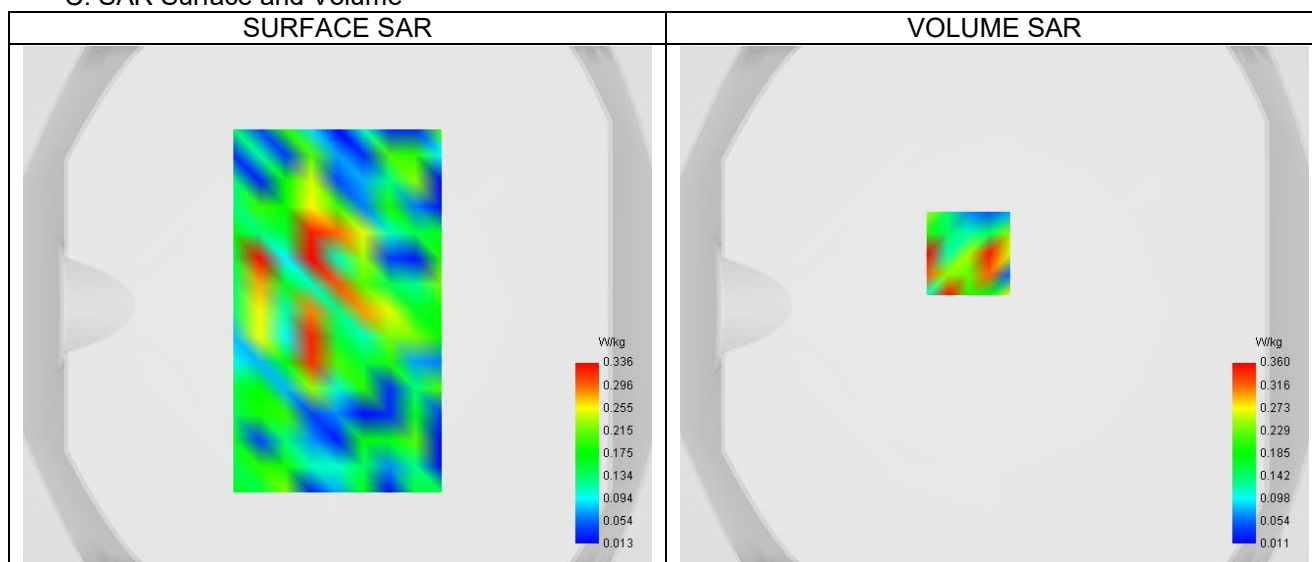
A. Experimental conditions.

Probe	SN 25/22 EPG0373
ConvF	2.92
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11a
Channels	Low (149)
Signal	IEEE802.a (Crest factor: 1.0)

B. Permittivity

Frequency (MHz)	5745.000
Relative permittivity (real part)	35.650
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.965

C. SAR Surface and Volume



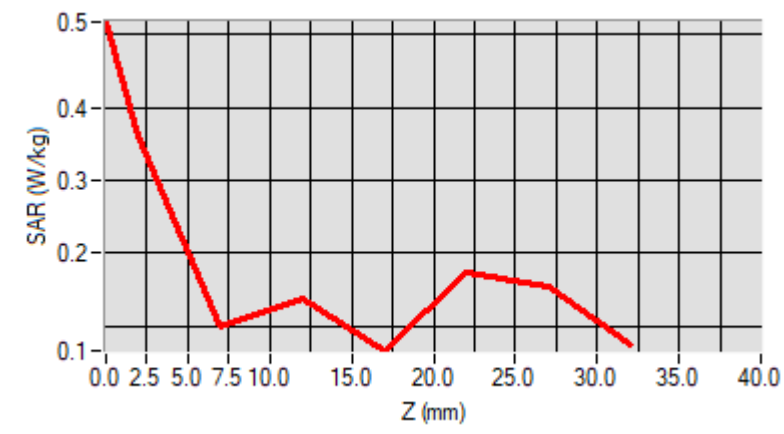
Maximum location: X=-10.00, Y=20.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

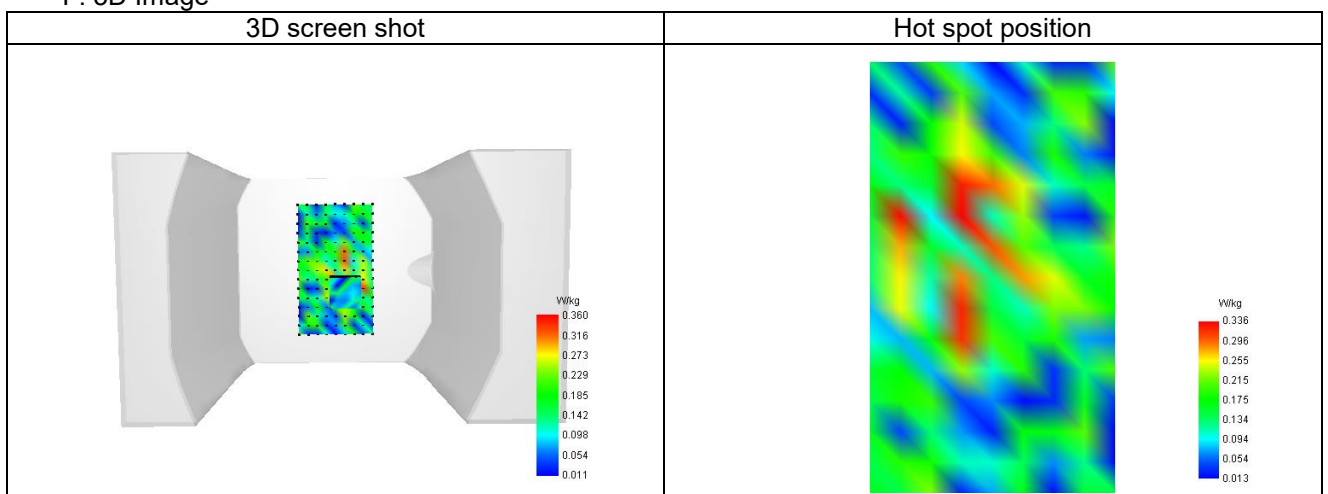
SAR 10g (W/Kg)	0.168
SAR 1g (W/Kg)	0.233
Variation (%)	0.190
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	91.255199

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	0.517	0.360	0.100	0.137	0.067	0.175	0.156

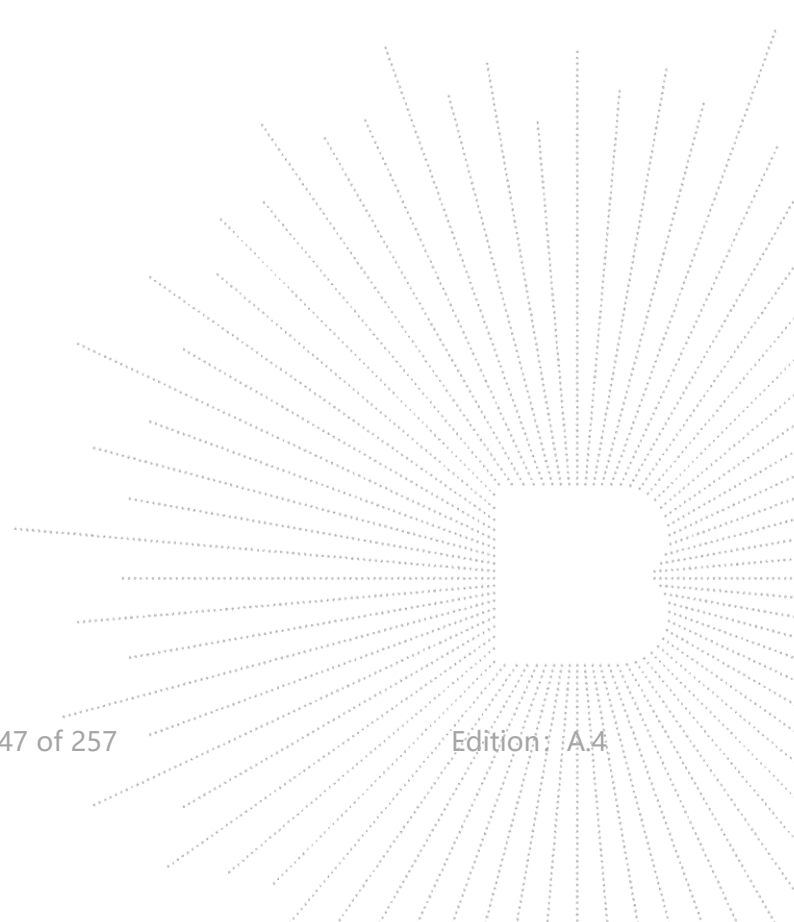


F. 3D Image



16. CALIBRATION CERTIFICATES

Probe-EPGO373 Calibration Certificate
SID835Dipole Calibration Certificate
SID900Dipole Calibration Certificate
SID1800Dipole Calibration Certificate
SID2100Dipole Calibration Certificate
SID2450Dipole Calibration Certificate
SID2600Dipole Calibration Certificate
SID5000Dipole Calibration Certificate



**COMOSAR E-Field Probe Calibration Report**

Ref : ACR.180.5.22.BES.A

SHENZHEN BCTC TECHNOLOGY CO., LTD.
1 ~2/ F, NO. B FACTORY BUILDING, PENGZHOU INDUSTRIAL
PARK, FUYUAN 1ST ROAD,
TANGWEI COMMUNITY, FUHAI STREET, BAO'AN DISTRICT,
SHENZHEN, GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: SN 25/22 EPG0373

Calibrated at MVG
Z.I. de la pointe du diable
Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE

Calibration date: 06/29/2022



Accreditations #2-6789
Scope available on www.cofrac.fr

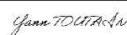
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Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).

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	<i>Name</i>	<i>Function</i>	<i>Date</i>	<i>Signature</i>
<i>Prepared by :</i>	Jérôme Le Gall	Measurement Responsible	6/30/2022	
<i>Checked & approved by:</i>	Jérôme Luc	Technical Manager	6/30/2022	
<i>Authorized by:</i>	Yann Toutain	Laboratory Director	6/30/2022	

2022.06.30

13:38:42 +02'00'

	<i>Customer Name</i>
<i>Distribution :</i>	Shenzhen BCTC Technology Co., Ltd.

<i>Issue</i>	<i>Name</i>	<i>Date</i>	<i>Modifications</i>
A	Jérôme Le Gall	6/30/2022	Initial release



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