

# Appendix B. MEASUREMENT SCANS

Date of measurement: 09/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

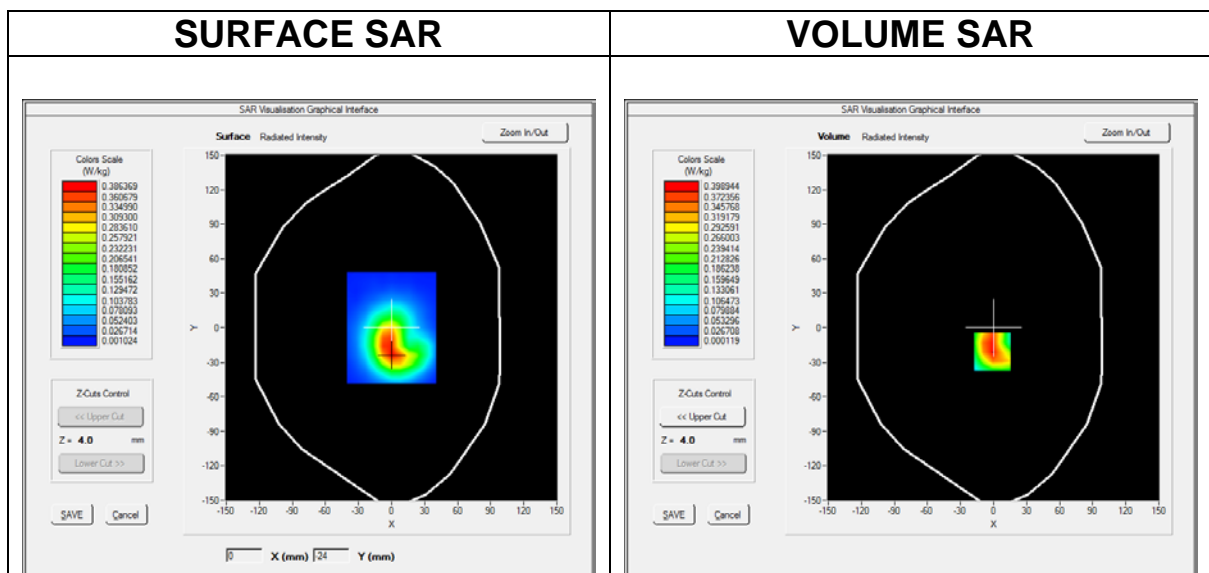
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.1)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 189):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	4.650000



**Maximum location: X=-1.00, Y=-21.00**

**SAR Peak: 1.15 W/kg**

<b>SAR 10g (W/Kg)</b>	0.199417
<b>SAR 1g (W/Kg)</b>	0.489451

Date of measurement: 09/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

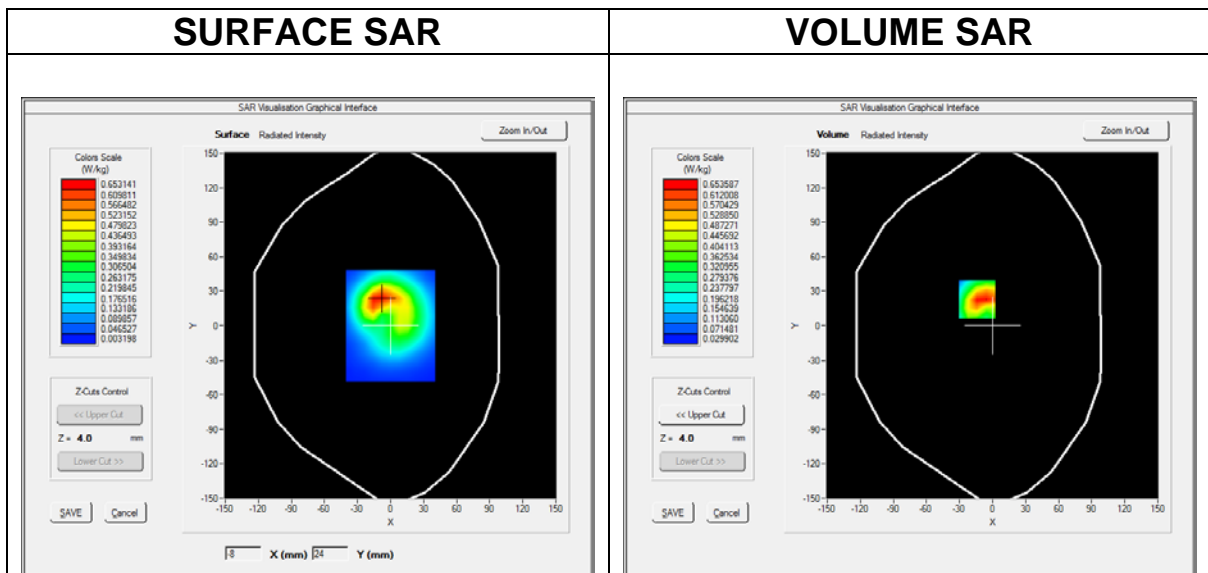
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM850</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 4.1)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 189):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	-3.200000



**Maximum location: X=-14.00, Y=23.00**

**SAR Peak: 1.05 W/kg**

<b>SAR 10g (W/Kg)</b>	0.352047
<b>SAR 1g (W/Kg)</b>	0.628056

Date of measurement: 09/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

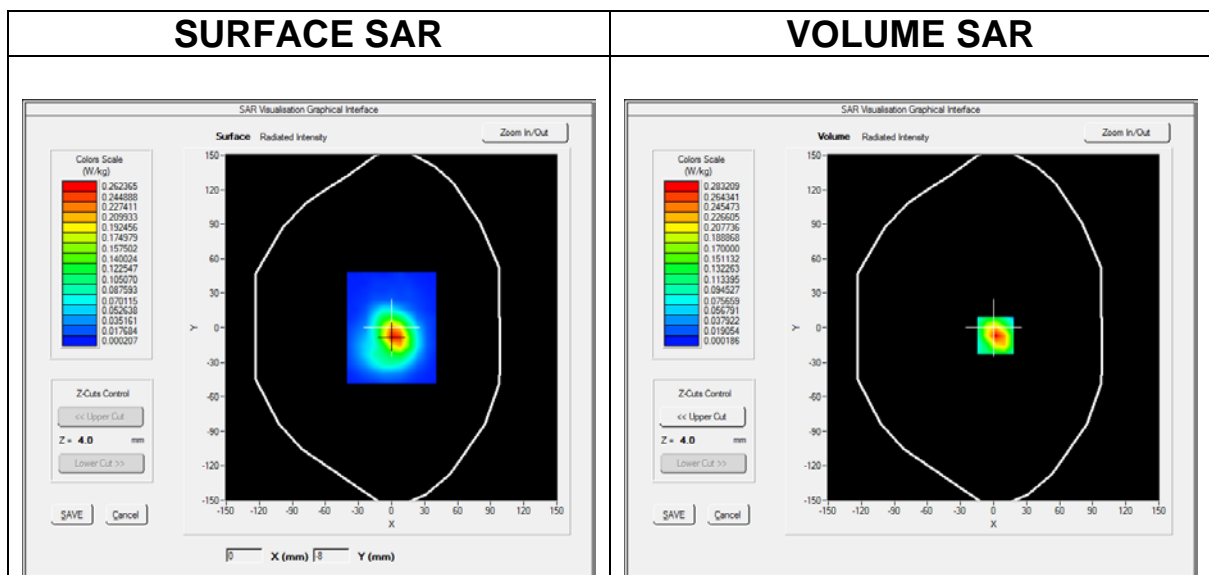
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.1)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 189):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	-6.740000



**Maximum location: X=2.00, Y=-7.00**

**SAR Peak: 0.68 W/kg**

<b>SAR 10g (W/Kg)</b>	0.120465
<b>SAR 1g (W/Kg)</b>	0.289855

Date of measurement: 09/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

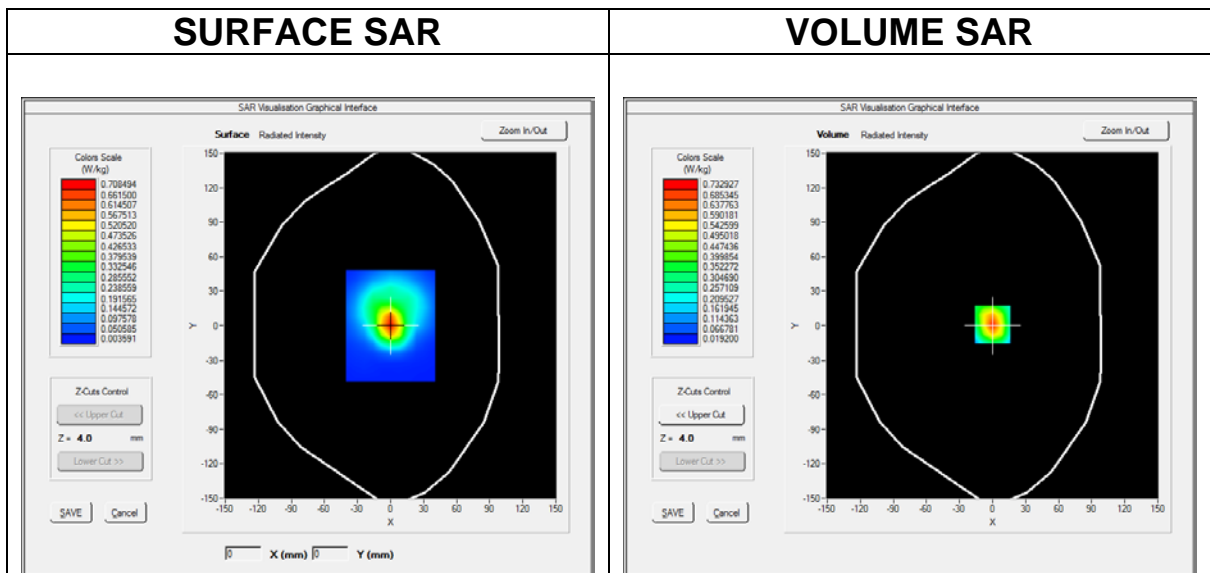
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 4.1)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 189):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	-2.140000



**Maximum location: X=0.00, Y=1.00**

**SAR Peak: 1.08 W/kg**

<b>SAR 10g (W/Kg)</b>	0.367334
<b>SAR 1g (W/Kg)</b>	0.673008

Date of measurement: 12/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

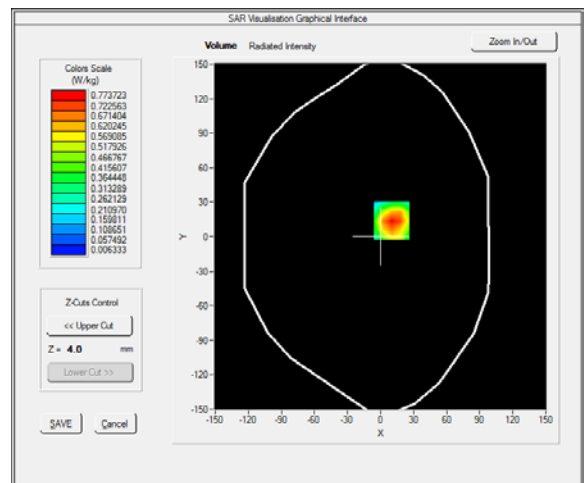
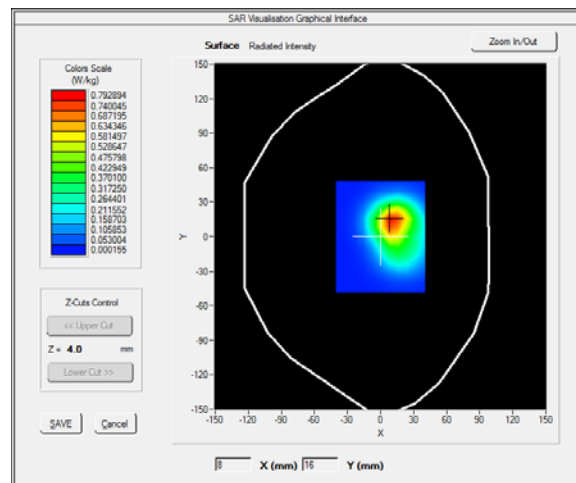
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 8.3)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	-16.040001
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=10.00, Y=14.00**

**SAR Peak: 1.26 W/kg**

<b>SAR 10g (W/Kg)</b>	0.402935
<b>SAR 1g (W/Kg)</b>	0.742917

Date of measurement: 12/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

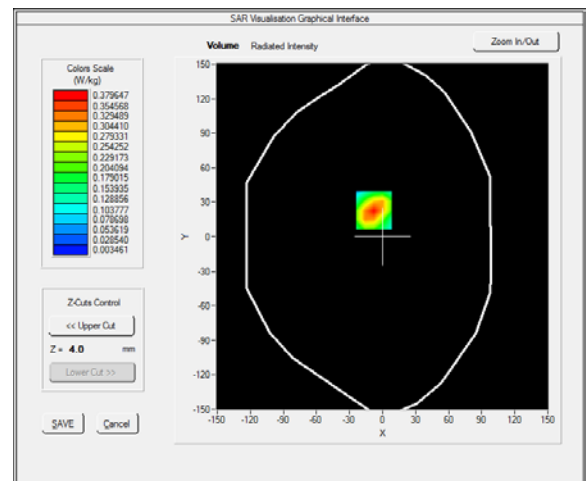
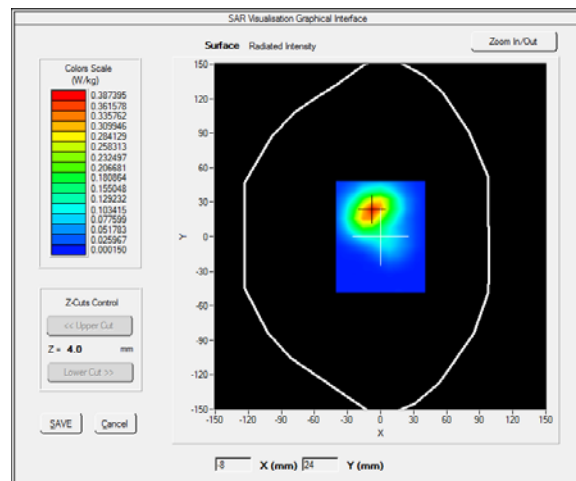
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 8.3)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	-1.920000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-8.00, Y=23.00**

**SAR Peak: 0.59 W/kg**

<b>SAR 10g (W/Kg)</b>	0.185964
<b>SAR 1g (W/Kg)</b>	0.355115

Date of measurement: 12/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

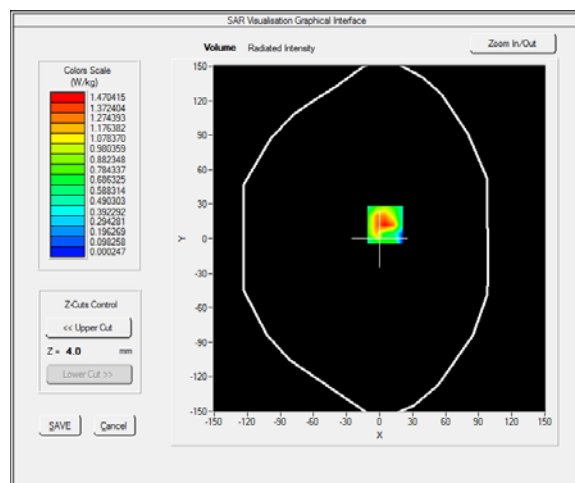
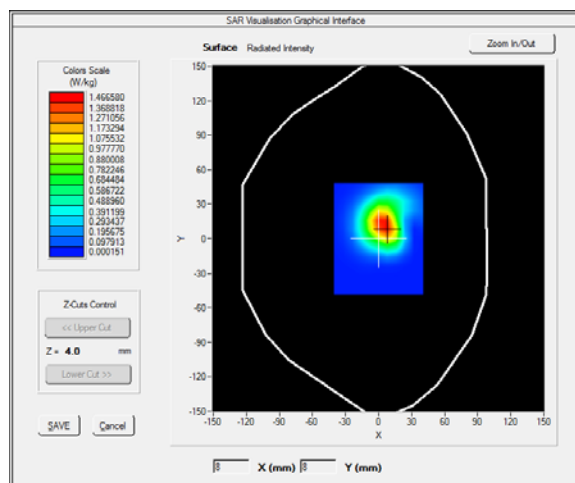
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>GSM1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>TDMA (Crest factor: 8.3)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	-2.820000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=5.00, Y=12.00**  
**SAR Peak: 2.31 W/kg**

<b>SAR 10g (W/Kg)</b>	0.709869
<b>SAR 1g (W/Kg)</b>	1.348161



Date of measurement: 12/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

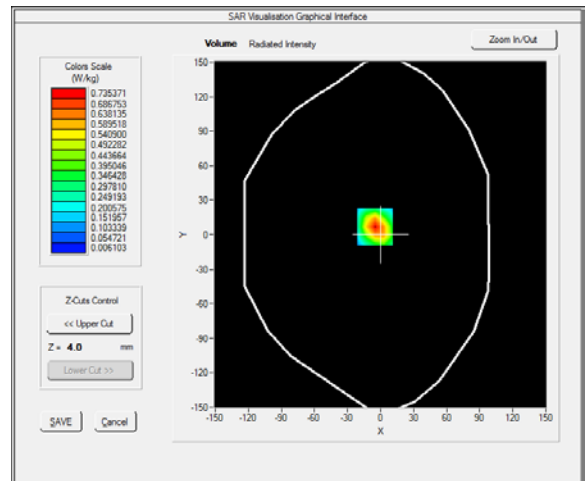
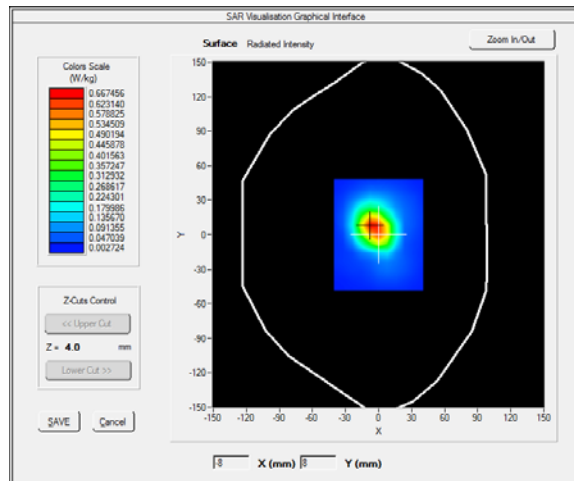
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>GSM1900</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>TDMA (Crest factor: 8.3)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	-1.830000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-5.00, Y=7.00**  
**SAR Peak: 1.16 W/kg**

<b>SAR 10g (W/Kg)</b>	0.360401
<b>SAR 1g (W/Kg)</b>	0.694037

Date of measurement: 12/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

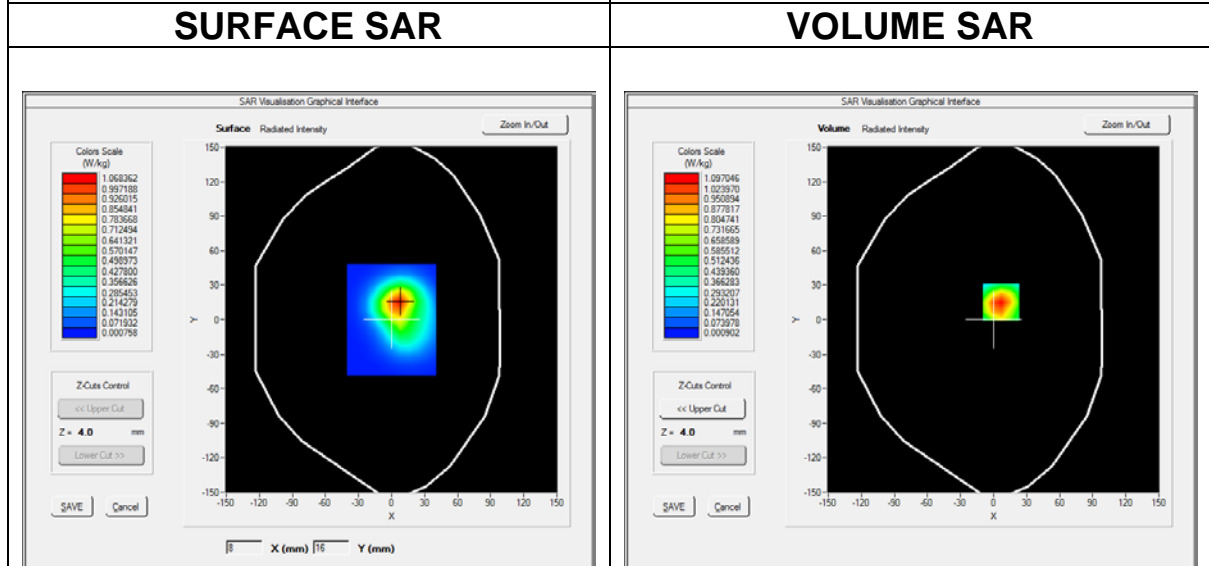
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 661):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	-95.730003



**Maximum location: X=7.00, Y=15.00**

**SAR Peak: 1.77 W/kg**

<b>SAR 10g (W/Kg)</b>	0.570548
<b>SAR 1g (W/Kg)</b>	1.065414

Date of measurement: 12/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

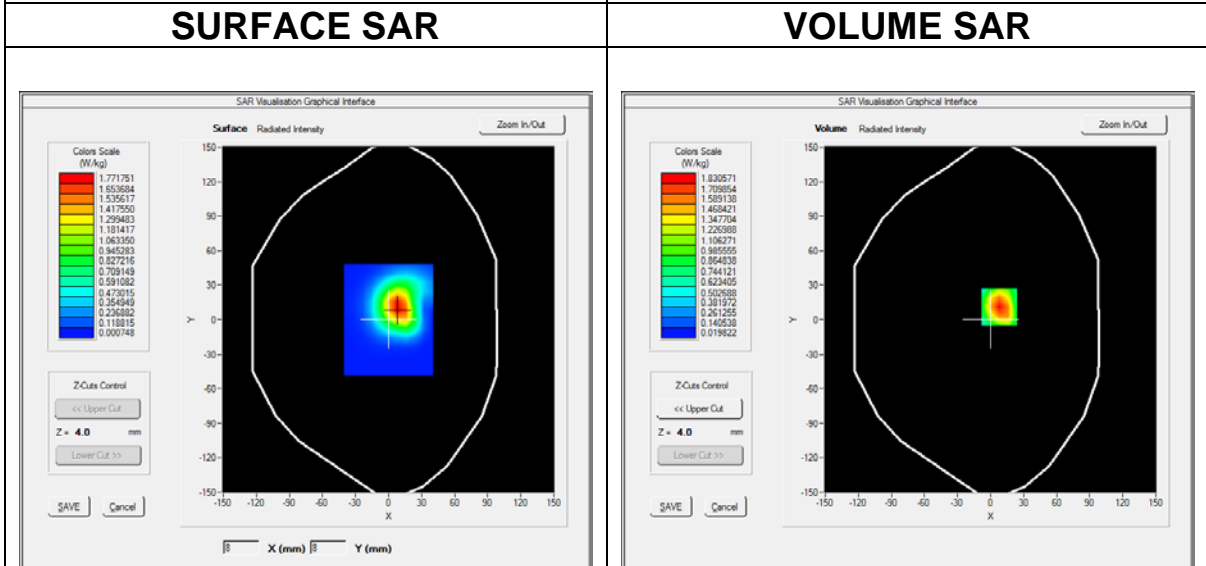
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band2_WCDMA1900</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 9400):

<b>Frequency (MHz)</b>	1880.000000
<b>Relative permittivity (real part)</b>	38.433399
<b>Relative permittivity (imaginary part)</b>	13.200500
<b>Conductivity (S/m)</b>	1.378719
<b>Variation (%)</b>	0.280000



**Maximum location: X=8.00, Y=11.00**  
**SAR Peak: 2.81 W/kg**

<b>SAR 10g (W/Kg)</b>	0.940482
<b>SAR 1g (W/Kg)</b>	1.743186

Date of measurement: 11/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5 WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 1412):

<b>Frequency (MHz)</b>	1732.000000
<b>Relative permittivity (real part)</b>	39.288200
<b>Relative permittivity (imaginary part)</b>	14.244500
<b>Conductivity (S/m)</b>	1.370637
<b>Variation (%)</b>	0.190000

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>

**Maximum location: X=-15.00, Y=9.00**

**SAR Peak: 1.24 W/kg**

<b>SAR 10g (W/Kg)</b>	0.414240
<b>SAR 1g (W/Kg)</b>	0.768228

Date of measurement: 11/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

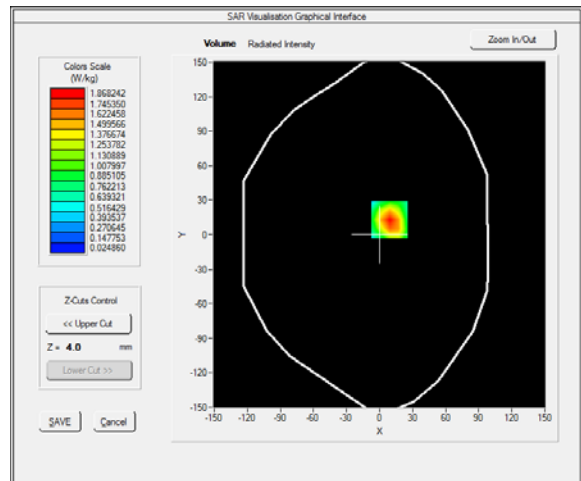
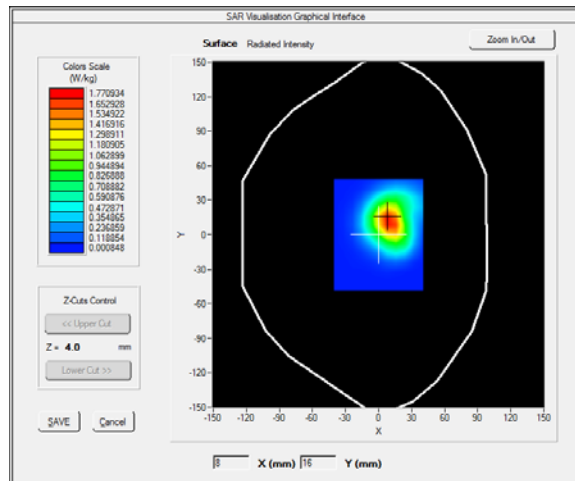
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5_WCDMA1700</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 1412):

<b>Frequency (MHz)</b>	1732.000000
<b>Relative permittivity (real part)</b>	39.288200
<b>Relative permittivity (imaginary part)</b>	14.244500
<b>Conductivity (S/m)</b>	1.370637
<b>Variation (%)</b>	0.660000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=9.00, Y=13.00**  
**SAR Peak: 2.84 W/kg**

<b>SAR 10g (W/Kg)</b>	0.964131
<b>SAR 1g (W/Kg)</b>	1.777328

Date of measurement: 09/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

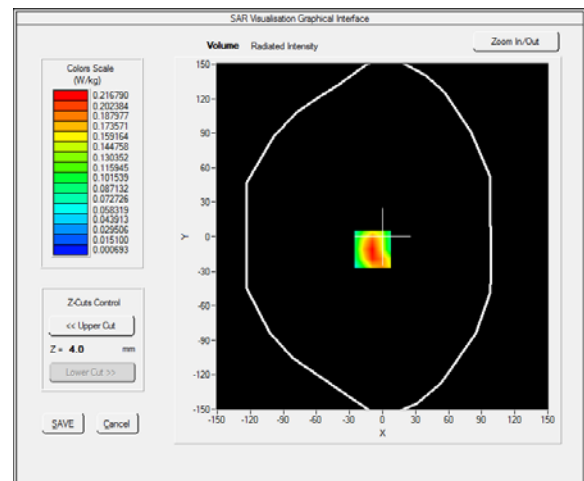
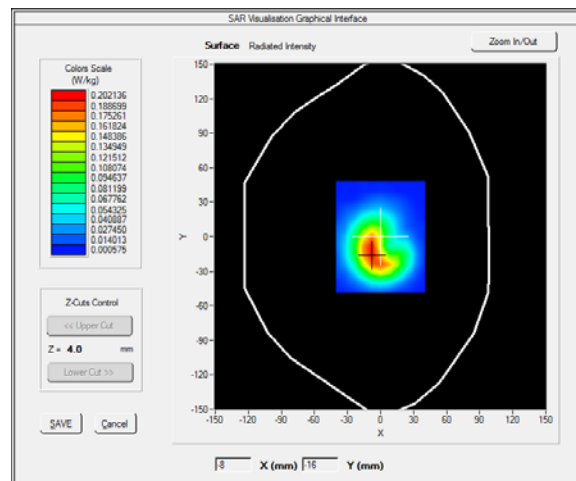
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 4182):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	2.520000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-9.00, Y=-11.00**

**SAR Peak: 0.37 W/kg**

<b>SAR 10g (W/Kg)</b>	0.104521
<b>SAR 1g (W/Kg)</b>	0.209295

Date of measurement: 09/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

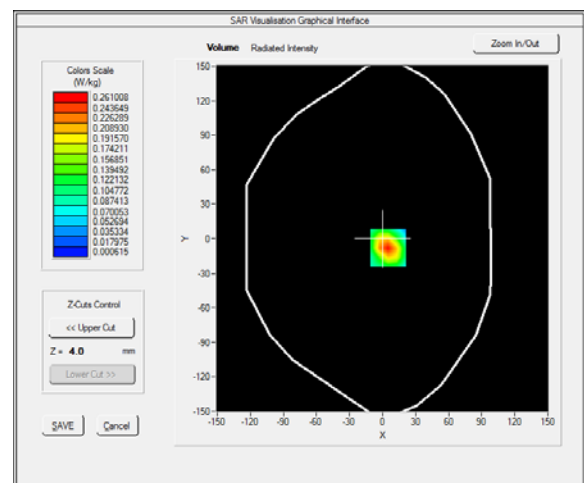
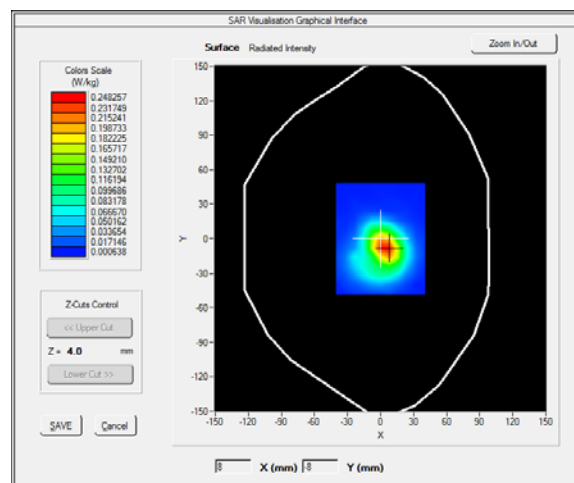
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Band5_WCDMA850</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>WCDMA (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 4182):

<b>Frequency (MHz)</b>	836.400024
<b>Relative permittivity (real part)</b>	40.415878
<b>Relative permittivity (imaginary part)</b>	19.257500
<b>Conductivity (S/m)</b>	0.894832
<b>Variation (%)</b>	-5.760000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=5.00, Y=-8.00**  
**SAR Peak: 0.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.115241
<b>SAR 1g (W/Kg)</b>	0.246960

Date of measurement: 15/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

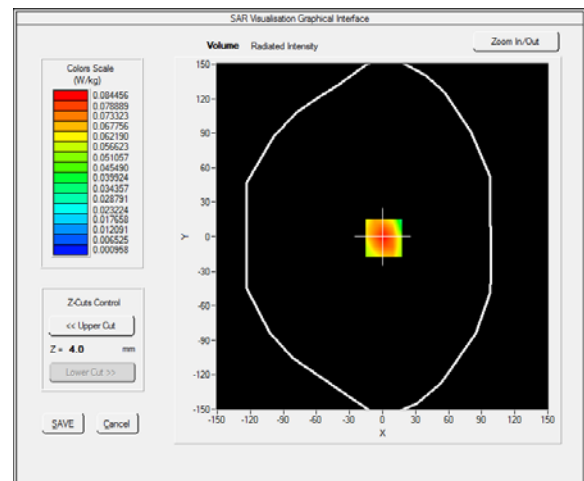
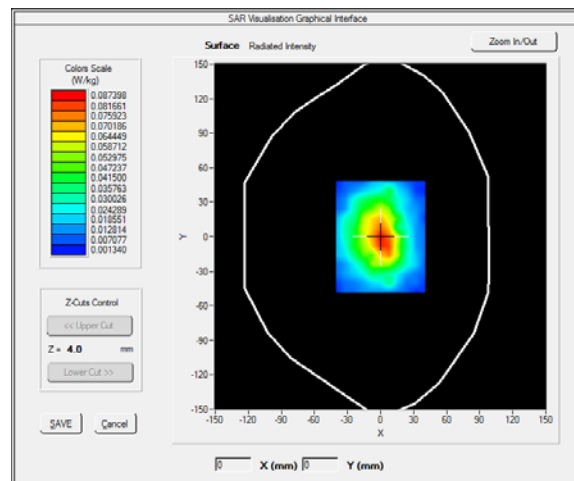
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Bluetooth</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Bluetooth (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 0):

<b>Frequency (MHz)</b>	2402.000000
<b>Relative permittivity (real part)</b>	36.783298
<b>Relative permittivity (imaginary part)</b>	13.481900
<b>Conductivity (S/m)</b>	1.825299
<b>Variation (%)</b>	7.350000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=1.00, Y=-1.00**

**SAR Peak: 0.14 W/kg**

<b>SAR 10g (W/Kg)</b>	0.046383
<b>SAR 1g (W/Kg)</b>	0.084479



Date of measurement: 15/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

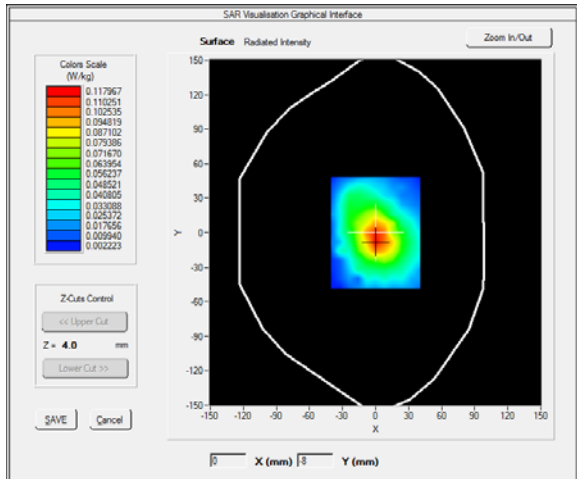
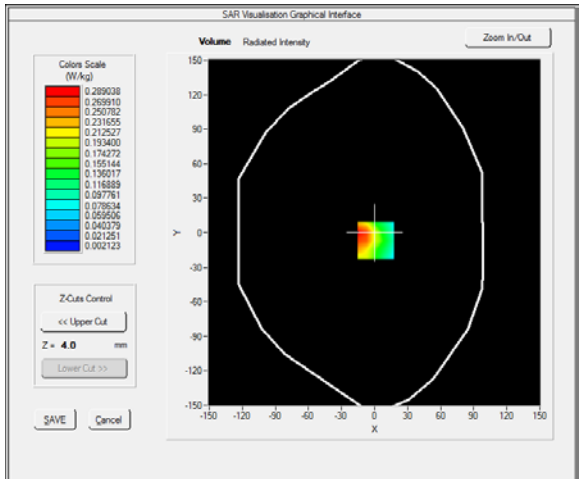
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>Bluetooth</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>Bluetooth (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 0):

<b>Frequency (MHz)</b>	2402.000000
<b>Relative permittivity (real part)</b>	36.783298
<b>Relative permittivity (imaginary part)</b>	13.481900
<b>Conductivity (S/m)</b>	1.825299
<b>Variation (%)</b>	14.180000

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>
	

**Maximum location: X=1.00, Y=-7.00**

**SAR Peak: 0.36 W/kg**

<b>SAR 10g (W/Kg)</b>	0.140412
<b>SAR 1g (W/Kg)</b>	0.254673

Date of measurement: 12/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 18900):

<b>Frequency (MHz)</b>	1879.500000
<b>Relative permittivity (real part)</b>	38.414349
<b>Relative permittivity (imaginary part)</b>	13.211250
<b>Conductivity (S/m)</b>	1.379475
<b>Variation (%)</b>	-2.110001

<b>SURFACE SAR</b>	<b>VOLUME SAR</b>

**Maximum location: X=-6.00, Y=22.00**

**SAR Peak: 1.12 W/kg**

<b>SAR 10g (W/Kg)</b>	0.338358
<b>SAR 1g (W/Kg)</b>	0.663999

Date of measurement: 12/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

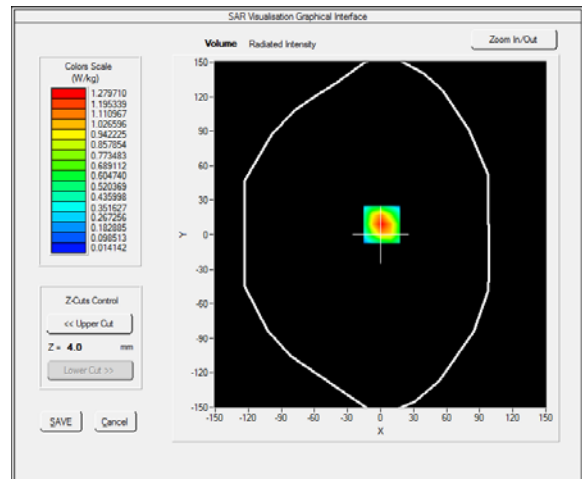
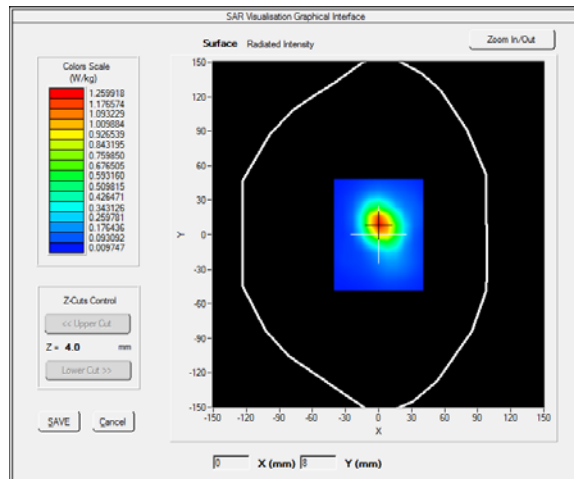
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 2</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 18900):

<b>Frequency (MHz)</b>	1879.500000
<b>Relative permittivity (real part)</b>	38.414349
<b>Relative permittivity (imaginary part)</b>	13.211250
<b>Conductivity (S/m)</b>	1.379475
<b>Variation (%)</b>	2.230000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=1.00, Y=9.00**  
**SAR Peak: 1.92 W/kg**

<b>SAR 10g (W/Kg)</b>	0.638568
<b>SAR 1g (W/Kg)</b>	1.194105

Date of measurement: 11/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

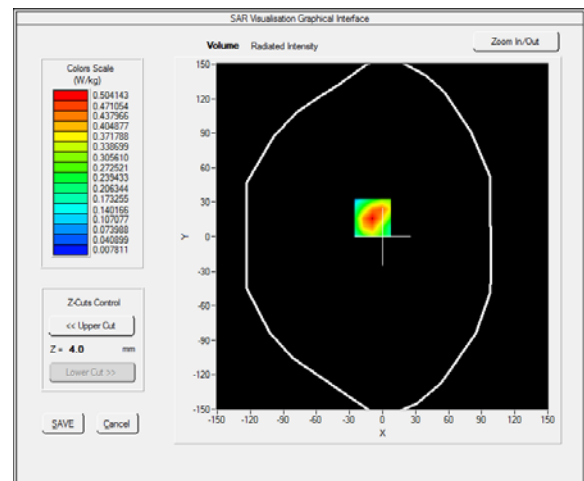
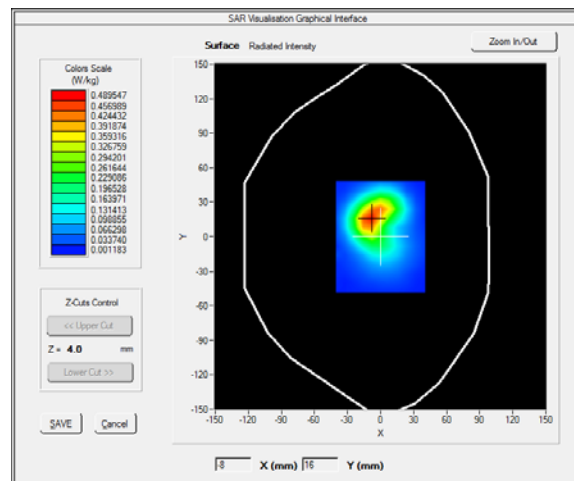
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 20175):

<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	39.297798
<b>Relative permittivity (imaginary part)</b>	14.242600
<b>Conductivity (S/m)</b>	1.370850
<b>Variation (%)</b>	1.530000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-9.00, Y=16.00**

**SAR Peak: 0.75 W/kg**

<b>SAR 10g (W/Kg)</b>	0.261173
<b>SAR 1g (W/Kg)</b>	0.477368

Date of measurement: 11/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

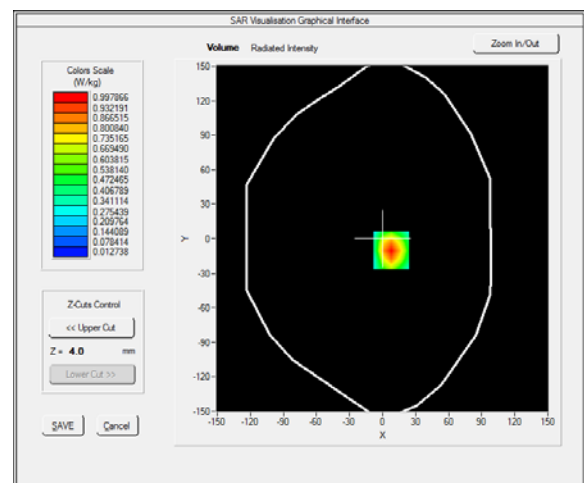
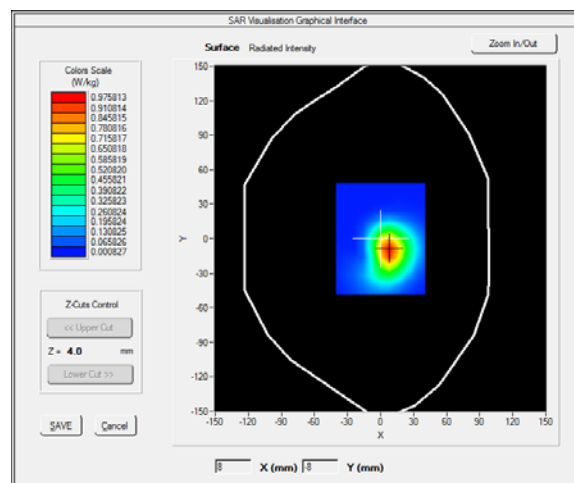
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 4</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 20175):

<b>Frequency (MHz)</b>	1732.500000
<b>Relative permittivity (real part)</b>	39.297798
<b>Relative permittivity (imaginary part)</b>	14.242600
<b>Conductivity (S/m)</b>	1.370850
<b>Variation (%)</b>	-0.910000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=8.00, Y=-10.00**  
**SAR Peak: 1.45 W/kg**

<b>SAR 10g (W/Kg)</b>	0.511015
<b>SAR 1g (W/Kg)</b>	0.943842

Date of measurement: 09/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

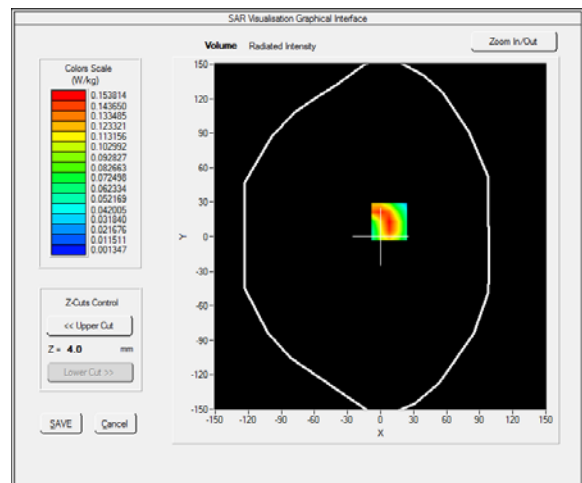
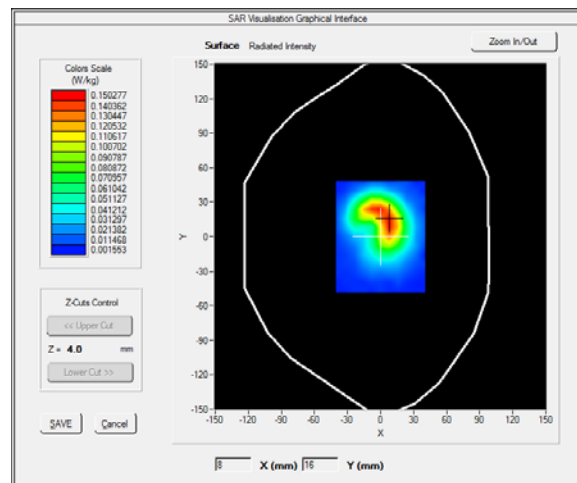
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 5</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 20525):

<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	40.418098
<b>Relative permittivity (imaginary part)</b>	19.261900
<b>Conductivity (S/m)</b>	0.895143
<b>Variation (%)</b>	-3.870000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=8.00, Y=13.00**

**SAR Peak: 0.27 W/kg**

<b>SAR 10g (W/Kg)</b>	0.071589
<b>SAR 1g (W/Kg)</b>	0.147011

Date of measurement: 09/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

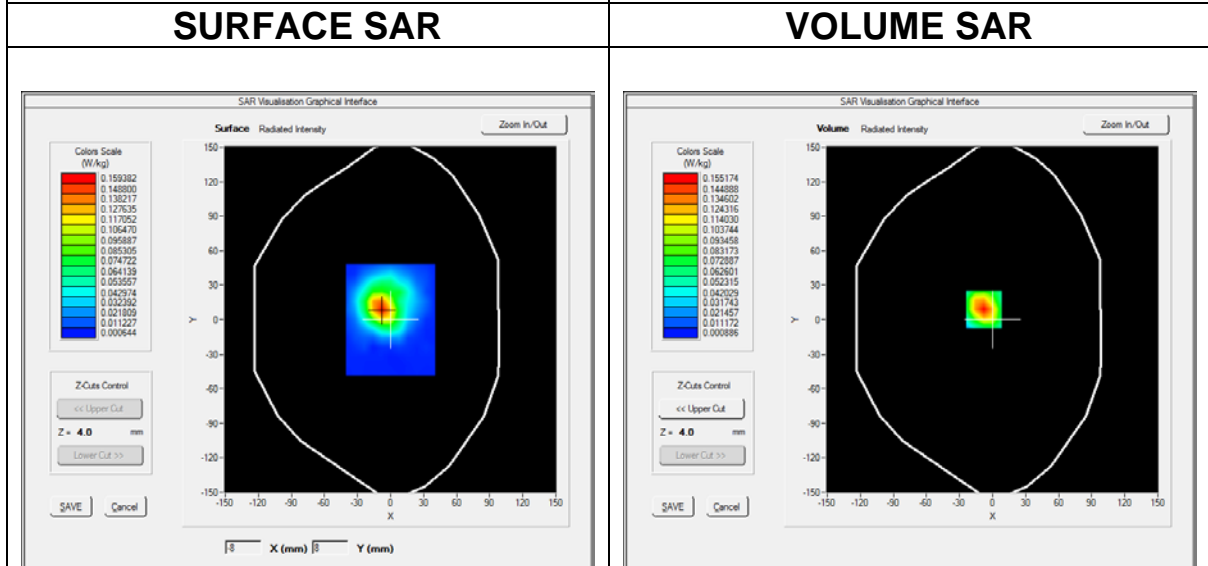
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 5</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 20525):

<b>Frequency (MHz)</b>	836.500000
<b>Relative permittivity (real part)</b>	40.418098
<b>Relative permittivity (imaginary part)</b>	19.261900
<b>Conductivity (S/m)</b>	0.895143
<b>Variation (%)</b>	-5.300000



**Maximum location: X=7.00, Y=-25.00**

**SAR Peak: 0.43 W/kg**

<b>SAR 10g (W/Kg)</b>	0.135518
<b>SAR 1g (W/Kg)</b>	0.324797

Date of measurement: 07/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

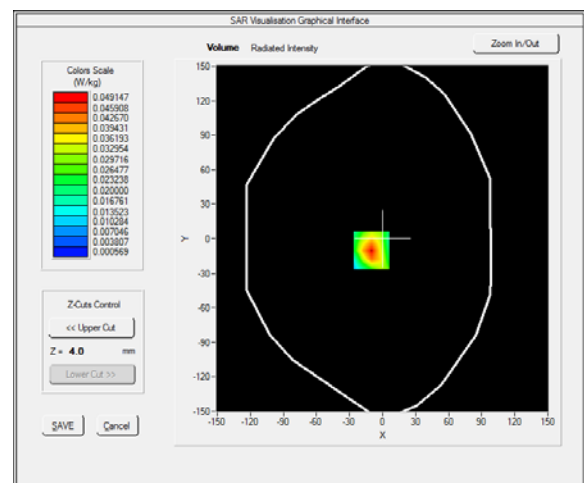
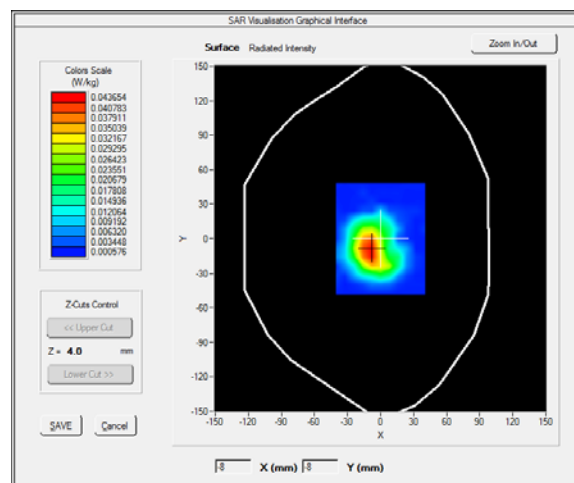
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 23095):

<b>Frequency (MHz)</b>	707.500000
<b>Relative permittivity (real part)</b>	42.034801
<b>Relative permittivity (imaginary part)</b>	20.835951
<b>Conductivity (S/m)</b>	0.818969
<b>Variation (%)</b>	-0.900000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-10.00, Y=-10.00**

**SAR Peak: 0.09 W/kg**

<b>SAR 10g (W/Kg)</b>	0.021014
<b>SAR 1g (W/Kg)</b>	0.046258



Date of measurement: 07/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

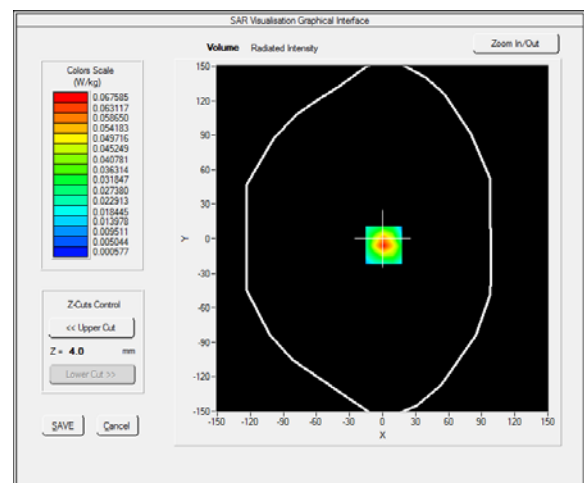
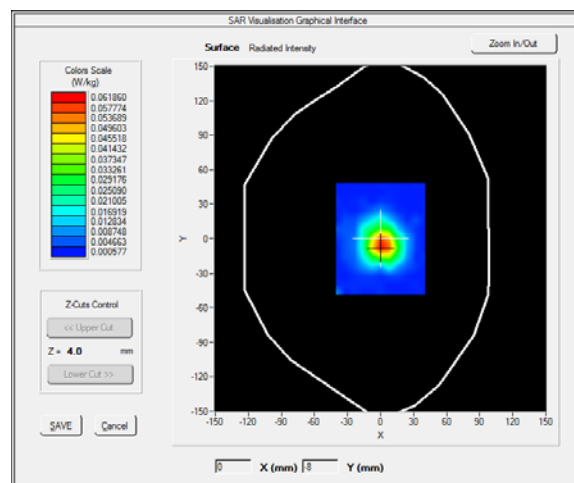
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm dz=5mm,Complete/nsurf_sam_plan.txt, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 12</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 23095):

<b>Frequency (MHz)</b>	707.500000
<b>Relative permittivity (real part)</b>	42.034801
<b>Relative permittivity (imaginary part)</b>	20.835951
<b>Conductivity (S/m)</b>	0.818969
<b>Variation (%)</b>	-2.990000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=1.00, Y=-6.00**  
**SAR Peak: 0.12 W/kg**

<b>SAR 10g (W/Kg)</b>	0.061581
<b>SAR 1g (W/Kg)</b>	0.162143

Date of measurement: 07/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

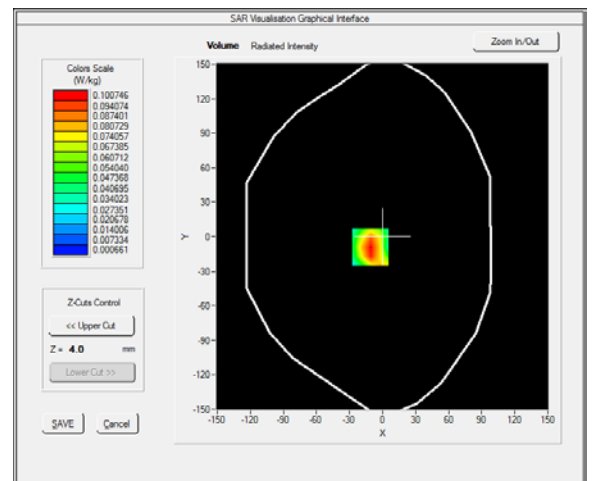
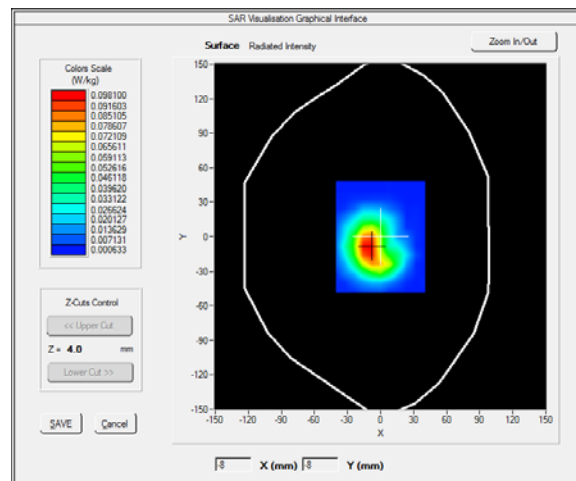
**A. Experimental conditions.**

<b>Area Scan</b>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<b>ZoomScan</b>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<b>Phantom</b>	<u>Validation plane</u>
<b>Device Position</b>	<u>Body</u>
<b>Band</b>	<u>LTE band 13</u>
<b>Channels</b>	<u>Middle</u>
<b>Signal</b>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 23230):

<b>Frequency (MHz)</b>	781.500000
<b>Relative permittivity (real part)</b>	40.682701
<b>Relative permittivity (imaginary part)</b>	20.716749
<b>Conductivity (S/m)</b>	0.899452
<b>Variation (%)</b>	-7.880000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-11.00, Y=-9.00**

**SAR Peak: 0.18 W/kg**

<b>SAR 10g (W/Kg)</b>	0.047278
<b>SAR 1g (W/Kg)</b>	0.098716

Date of measurement: 07/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

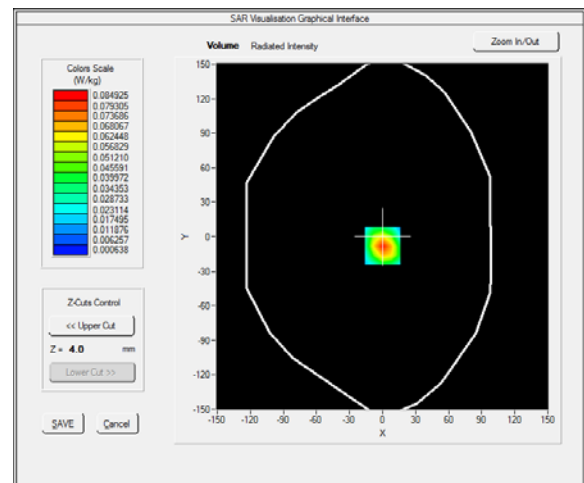
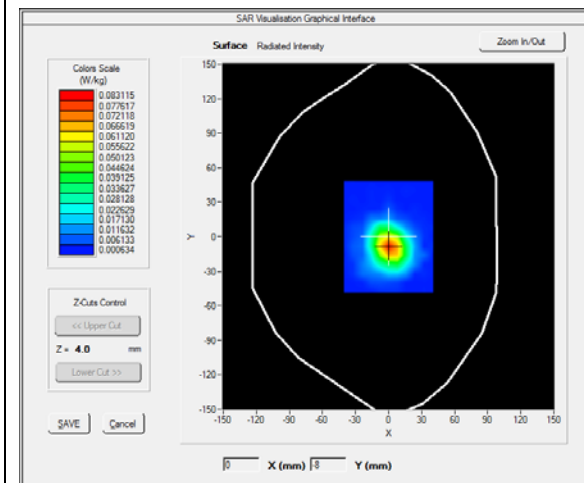
**A. Experimental conditions.**

<u>Area Scan</u>	<u>surf_sam_plan.txt, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/nsurf_sam_plan.txt, h=</u> <u>5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 13</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 23230):

<b>Frequency (MHz)</b>	781.500000
<b>Relative permittivity (real part)</b>	40.682701
<b>Relative permittivity (imaginary part)</b>	20.716749
<b>Conductivity (S/m)</b>	0.899452
<b>Variation (%)</b>	-3.450000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=0.00, Y=-4.00**

**SAR Peak: 0.85 W/kg**

<b>SAR 10g (W/Kg)</b>	0.145514
<b>SAR 1g (W/Kg)</b>	0.279959

Date of measurement: 11/7/2020

Next to the mouth Test data (Separation Distance is 10 mm)

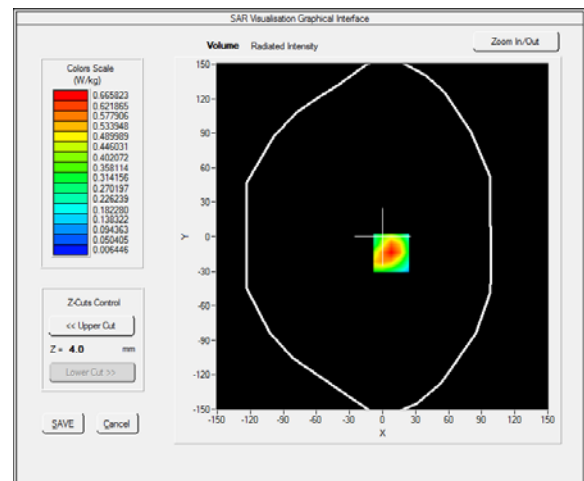
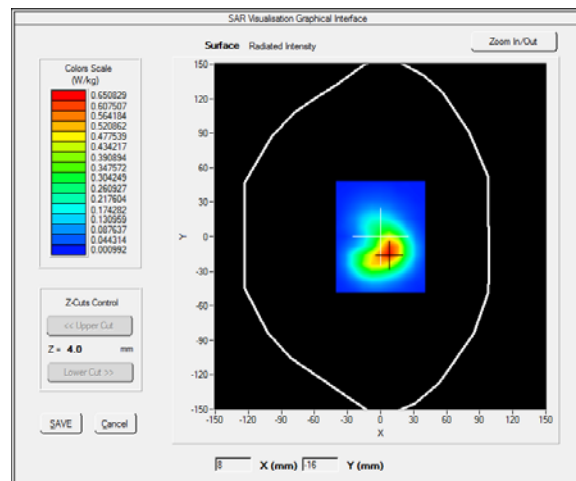
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 132322):

<b>Frequency (MHz)</b>	1745.000000
<b>Relative permittivity (real part)</b>	39.009335
<b>Relative permittivity (imaginary part)</b>	13.553667
<b>Conductivity (S/m)</b>	1.385633
<b>Variation (%)</b>	-1.980000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=8.00, Y=-14.00**

**SAR Peak: 0.96 W/kg**

<b>SAR 10g (W/Kg)</b>	0.350978
<b>SAR 1g (W/Kg)</b>	0.629614

Date of measurement: 11/7/2020  
 Extremity Test data (Separation Distance is 0 cm)

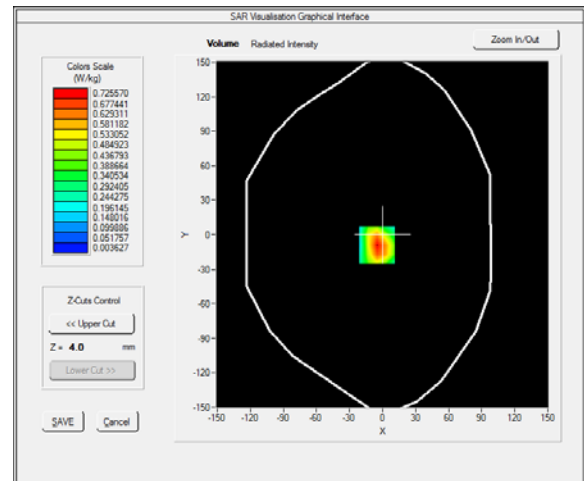
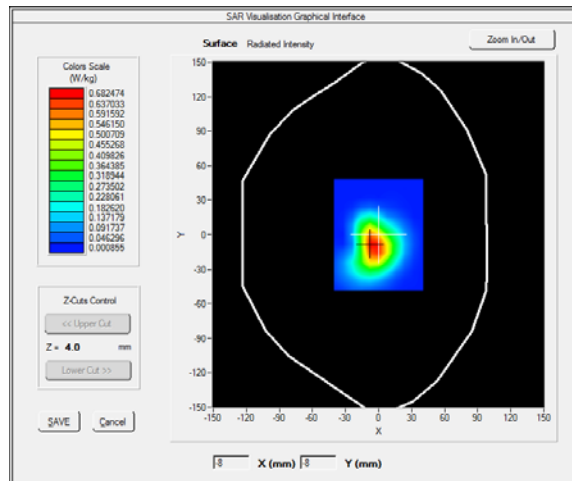
**A. Experimental conditions.**

<u>Area Scan</u>	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
<u>ZoomScan</u>	<u>5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm</u>
<u>Phantom</u>	<u>Validation plane</u>
<u>Device Position</u>	<u>Body</u>
<u>Band</u>	<u>LTE band 66</u>
<u>Channels</u>	<u>Middle</u>
<u>Signal</u>	<u>LTE (Crest factor: 1.0)</u>

**C. SAR Measurement Results**

Middle Band SAR (Channel 132322):

<b>Frequency (MHz)</b>	1745.000000
<b>Relative permittivity (real part)</b>	39.009335
<b>Relative permittivity (imaginary part)</b>	13.553667
<b>Conductivity (S/m)</b>	1.385633
<b>Variation (%)</b>	0.880000
<b>SURFACE SAR</b>	<b>VOLUME SAR</b>



**Maximum location: X=-5.00, Y=-9.00**  
**SAR Peak: 1.09 W/kg**

<b>SAR 10g (W/Kg)</b>	0.379158
<b>SAR 1g (W/Kg)</b>	0.690619