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## **Annex B: Measurement Results**

**Tested Model : N5001L**

**Report Number:  
FCC17040291A**

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 8 minutes 21 seconds

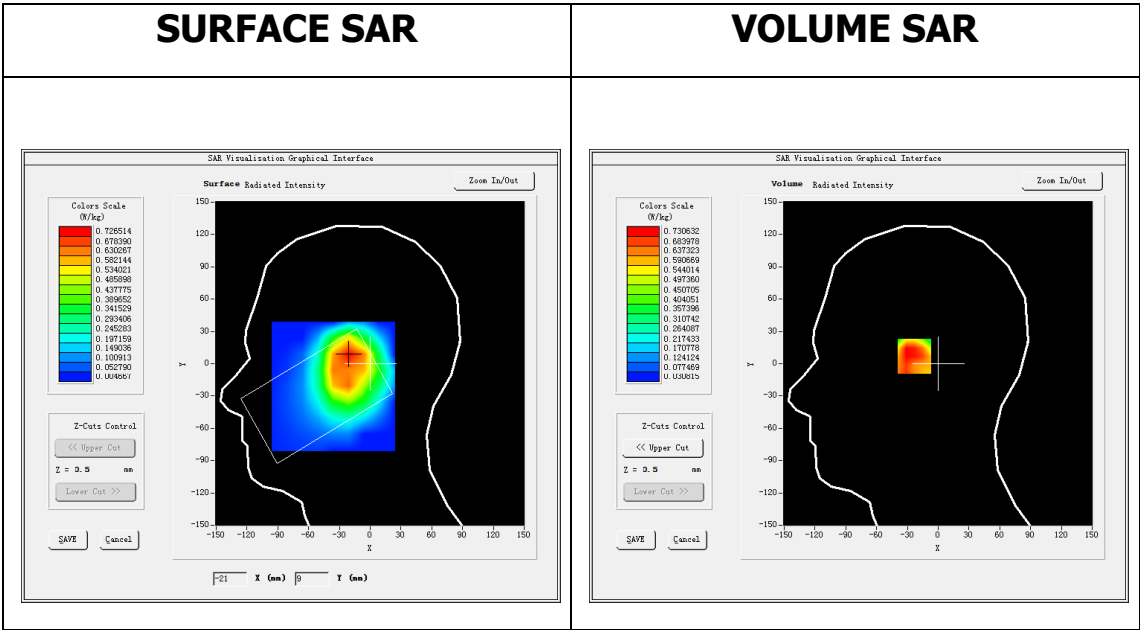
### A. Experimental conditions.

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Right head</u>                              |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>CUSTOM (GPRS850 4Tx)</u>                    |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>    |
| <b><u>Conversion factor</u></b> | <u>4.93</u>                                    |

### B. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 41.550823  |
| <b>Relative permittivity (imaginary part)</b> | 19.649035  |
| <b>Conductivity (S/m)</b>                     | 0.899707   |

|                      |          |
|----------------------|----------|
| <b>Variation (%)</b> | 4.610000 |
|----------------------|----------|

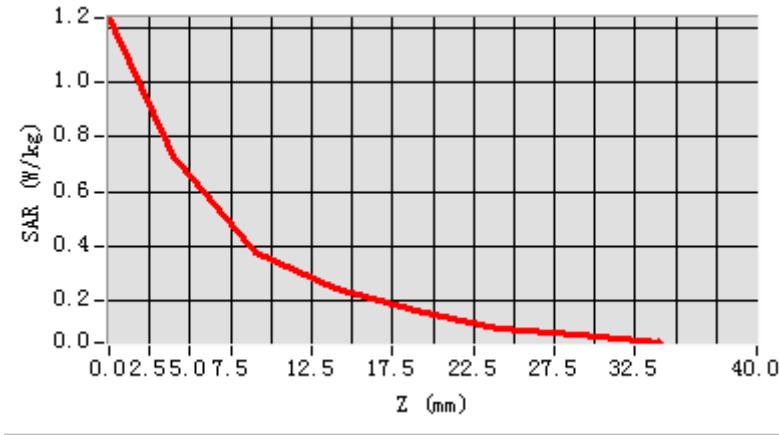


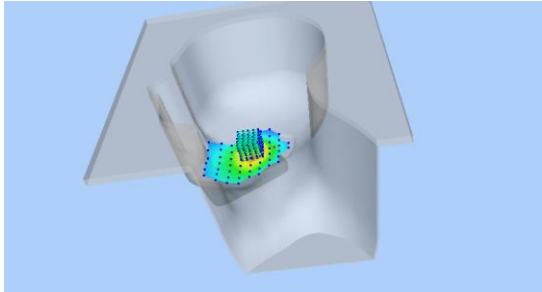
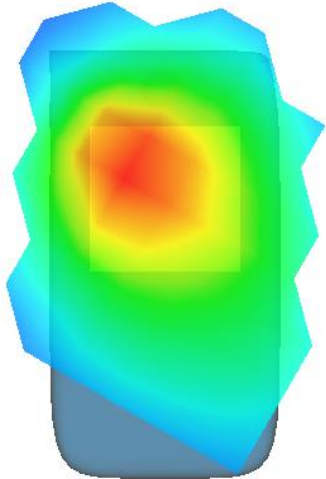
**Maximum location: X=-20.00, Y=8.00**

**SAR Peak: 1.23 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.428571 |
| <b>SAR 1g (W/Kg)</b>  | 0.734285 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.2345</b> | <b>0.7306</b> | <b>0.3794</b> | <b>0.2418</b> | <b>0.1660</b> | <b>0.0981</b> | <b>0.0765</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 2

Rear-side-low

Type: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 10 minutes 38 seconds

### **A. Experimental conditions.**

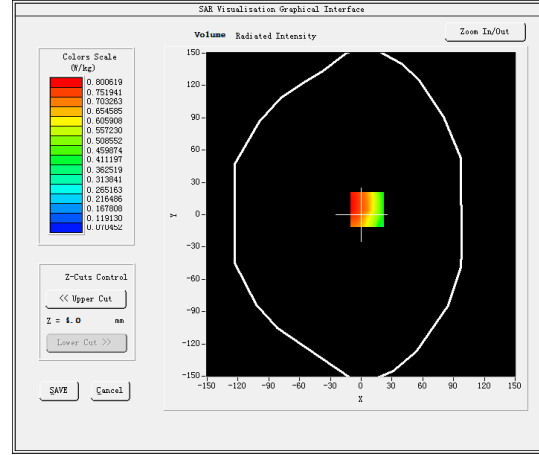
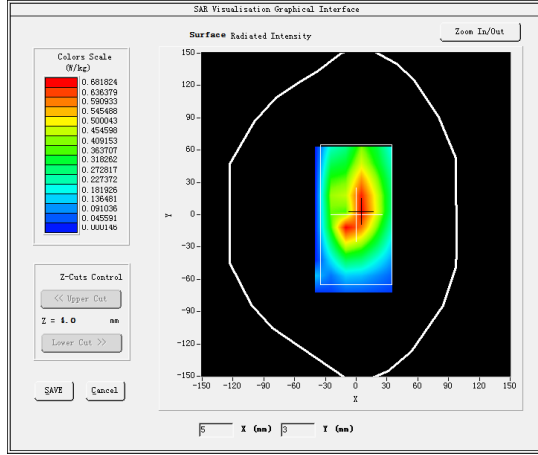
|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>CUSTOM (GPRS850 4Tx)</u>                    |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>    |
| <b><u>Conversion factor</u></b> | <u>5.07</u>                                    |

### **B. SAR Measurement Results**

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.242077  |
| <b>Relative permittivity (imaginary part)</b> | 21.378187  |
| <b>Conductivity (S/m)</b>                     | 0.978883   |
| <b>Variation (%)</b>                          | 2.350000   |

### SURFACE SAR

### VOLUME SAR

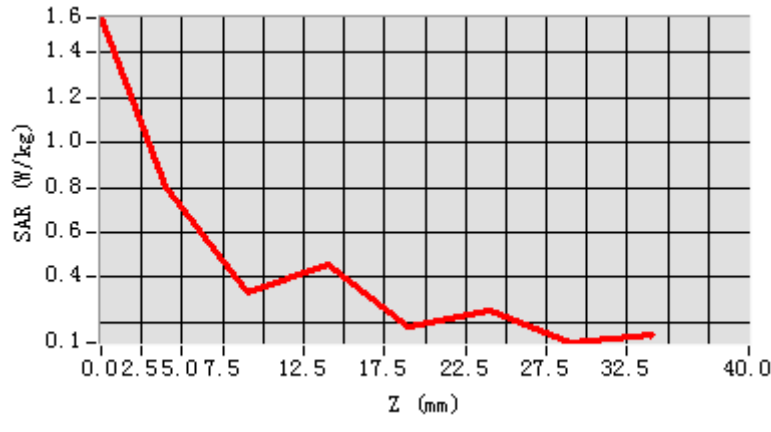


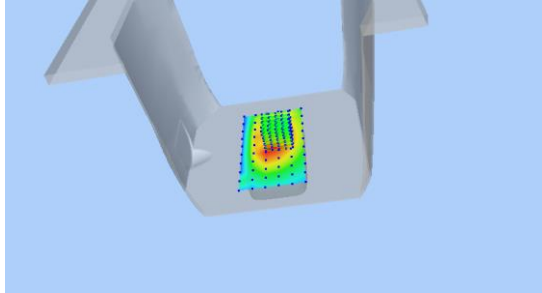
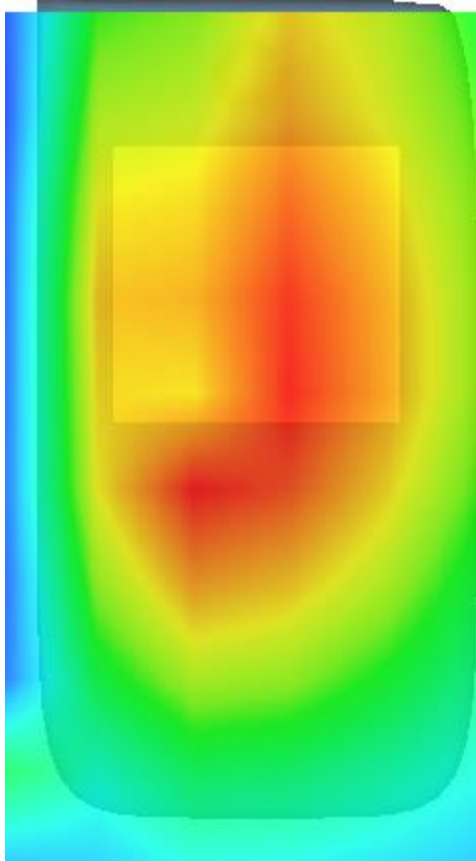
**Maximum location: X=6.00, Y=5.00**

**SAR Peak: 1.06 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.433015 |
| <b>SAR 1g (W/Kg)</b>  | 0.762906 |

| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 1.5532 | 0.8006 | 0.3347 | 0.4544 | 0.1798 | 0.2474 | 0.1093 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 11 seconds

### A. Experimental conditions.

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Right head</u>                              |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>CUSTOM (GPRS1900 4Tx)</u>                   |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>    |
| <b><u>Conversion factor</u></b> | <u>4.63</u>                                    |

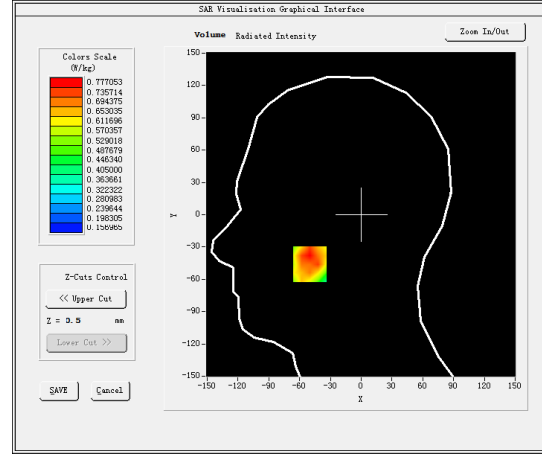
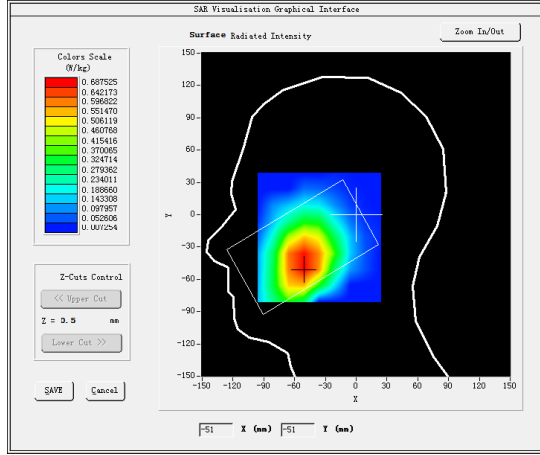
### B. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 39.914200   |
| <b>Relative permittivity (imaginary part)</b> | 13.434300   |
| <b>Conductivity (S/m)</b>                     | 1.403138    |
| <b>Variation (%)</b>                          | 0.290000    |



### SURFACE SAR

### VOLUME SAR

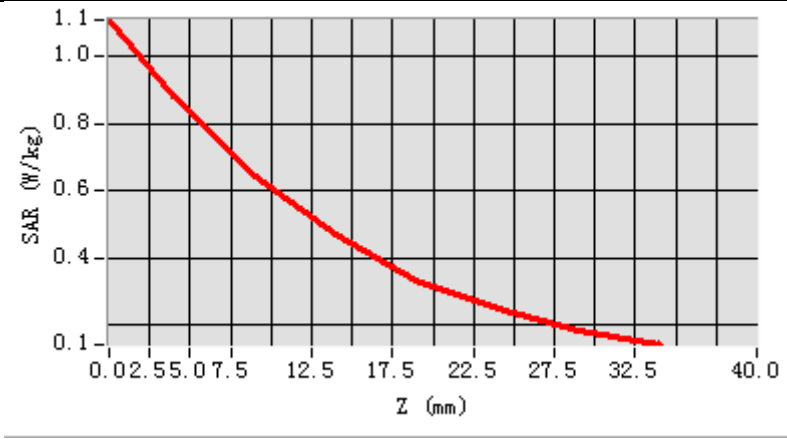


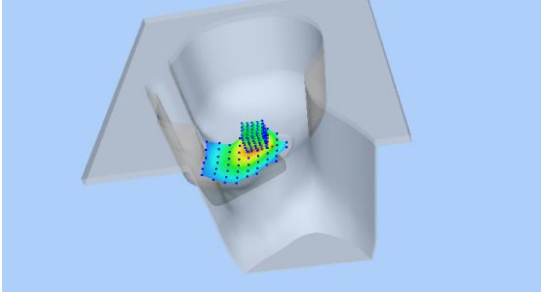
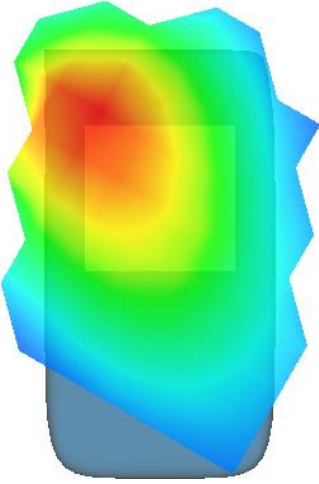
**Maximum location: X=-50.00, Y=-46.00**

**SAR Peak: 1.11 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.585147 |
| <b>SAR 1g (W/Kg)</b>  | 0.666552 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.1082</b> | <b>0.8809</b> | <b>0.6442</b> | <b>0.4730</b> | <b>0.3316</b> | <b>0.2502</b> | <b>0.1862</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 4

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 39 seconds

### **A. Experimental conditions.**

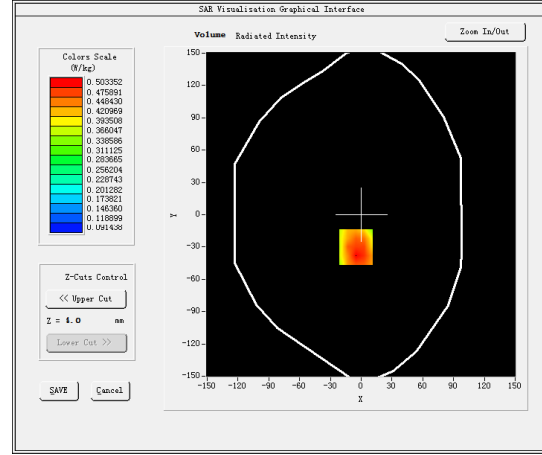
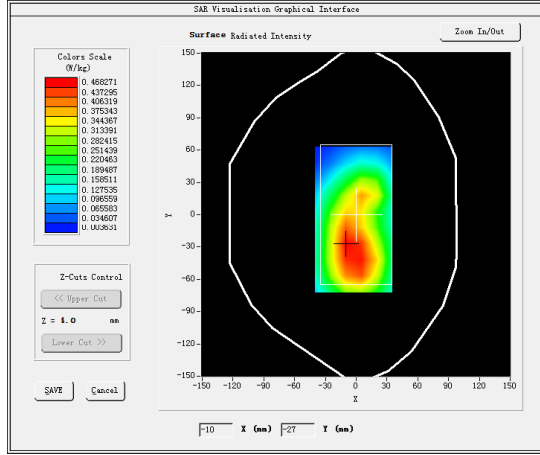
|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>CUSTOM (GPRS1900 4Tx)</u>                   |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty Cycle: 2.00 (Crest factor: 2.0)</u>    |
| <b><u>Conversion factor</u></b> | <u>4.78</u>                                    |

### **B. SAR Measurement Results**

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 53.356098   |
| <b>Relative permittivity (imaginary part)</b> | 14.668600   |
| <b>Conductivity (S/m)</b>                     | 1.532054    |
| <b>Variation (%)</b>                          | 3.280000    |

### SURFACE SAR

### VOLUME SAR

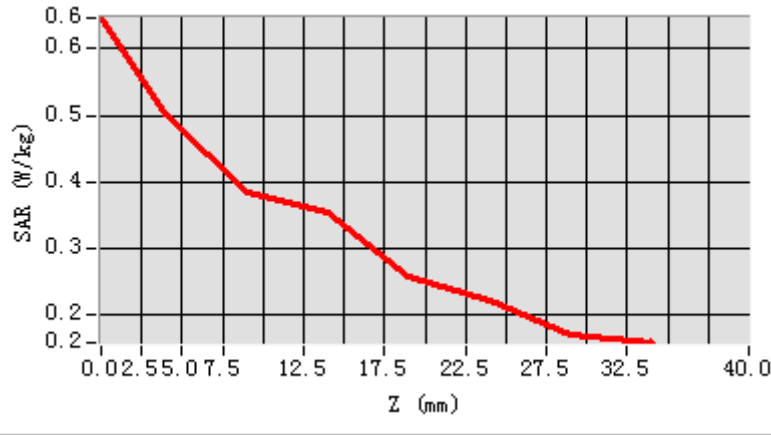


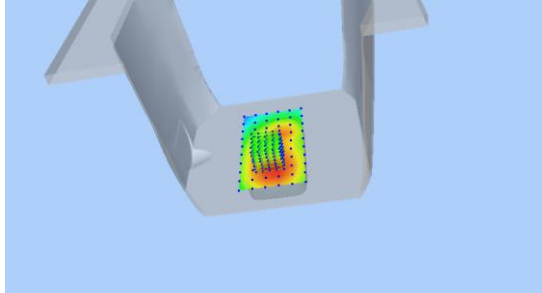
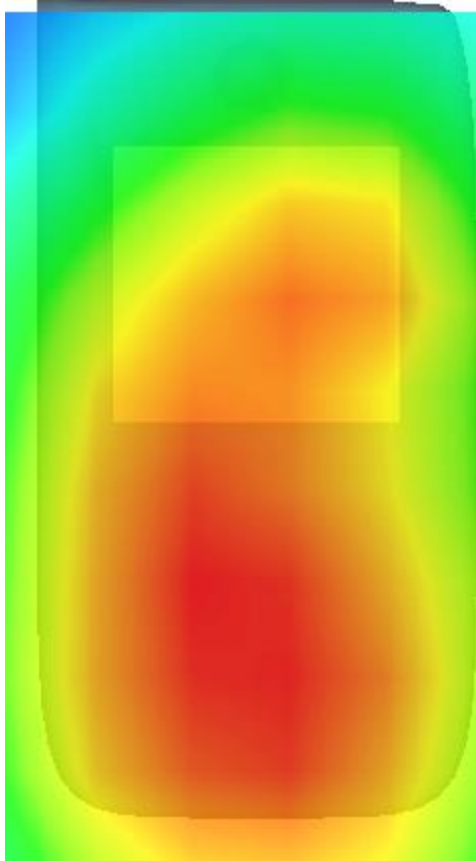
**Maximum location: X=-5.00, Y=-30.00**

**SAR Peak: 0.64 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.379376 |
| <b>SAR 1g (W/Kg)</b>  | 0.495274 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.6464</b> | <b>0.5034</b> | <b>0.3838</b> | <b>0.3563</b> | <b>0.2573</b> | <b>0.2228</b> | <b>0.1699</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 7 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Right head</u>                              |
| <b><u>Device Position</u></b>   | <u>Tilt</u>                                    |
| <b><u>Band</u></b>              | <u>Band2 WCDMA1900</u>                         |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.78</u>                                    |

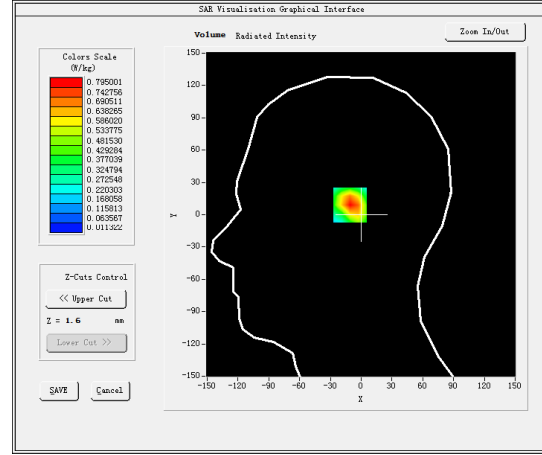
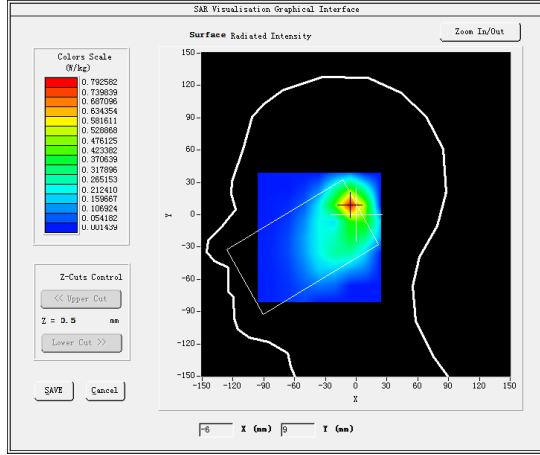
### **B. SAR Measurement Results**

Lower Band SAR (Channel 9262):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1852.400024 |
| <b>Relative permittivity (real part)</b>      | 39.843739   |
| <b>Relative permittivity (imaginary part)</b> | 13.323660   |
| <b>Conductivity (S/m)</b>                     | 1.371153    |
| <b>Variation (%)</b>                          | 3.910000    |

## SURFACE SAR

## VOLUME SAR

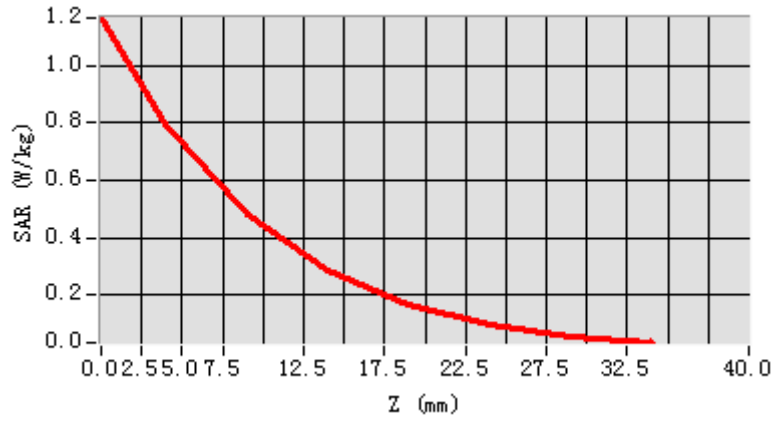


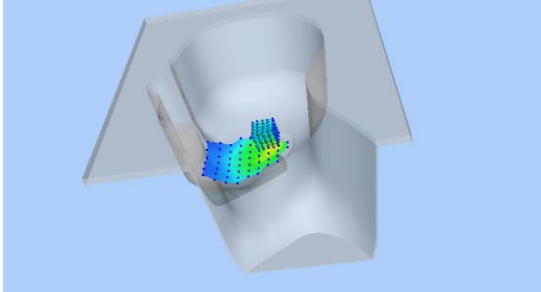
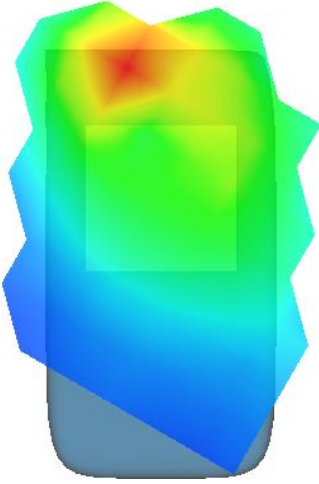
**Maximum location: X=-6.00, Y=9.00**

**SAR Peak: 1.18 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.404375 |
| <b>SAR 1g (W/Kg)</b>  | 0.644056 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.1654</b> | <b>0.7950</b> | <b>0.4802</b> | <b>0.2857</b> | <b>0.1678</b> | <b>0.0994</b> | <b>0.0591</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |



## MEASUREMENT 6

Top-side-low

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 10 minutes 12 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>Band2 WCDMA1900</u>                         |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.63</u>                                    |

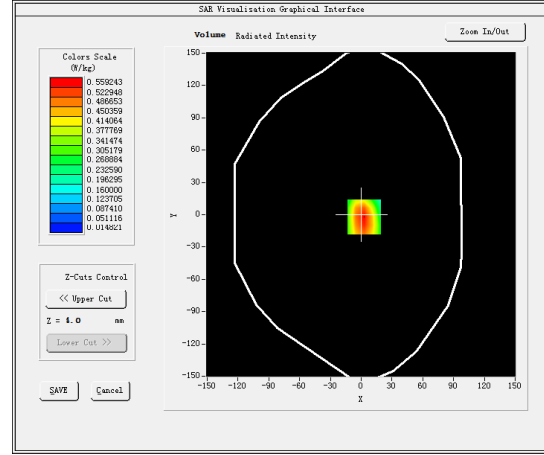
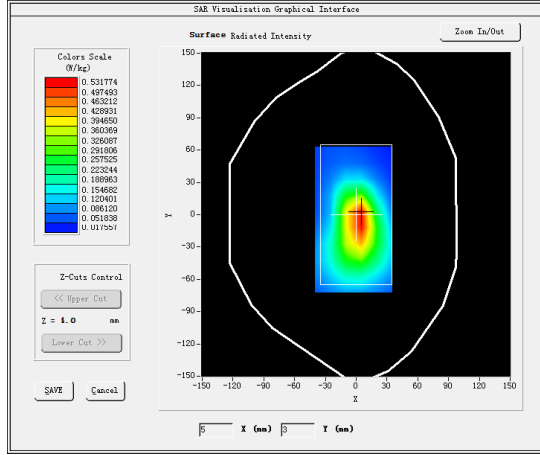
### **B. SAR Measurement Results**

Lower Band SAR (Channel 9262):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1852.400024 |
| <b>Relative permittivity (real part)</b>      | 53.256340   |
| <b>Relative permittivity (imaginary part)</b> | 14.499960   |
| <b>Conductivity (S/m)</b>                     | 1.492207    |
| <b>Variation (%)</b>                          | 0.170000    |

### SURFACE SAR

### VOLUME SAR

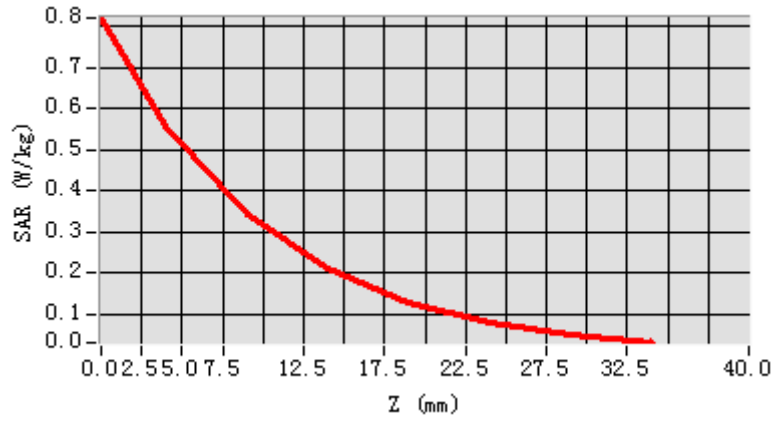


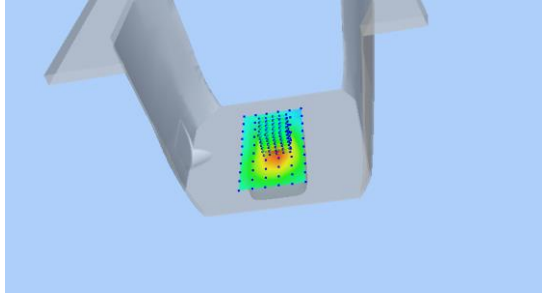
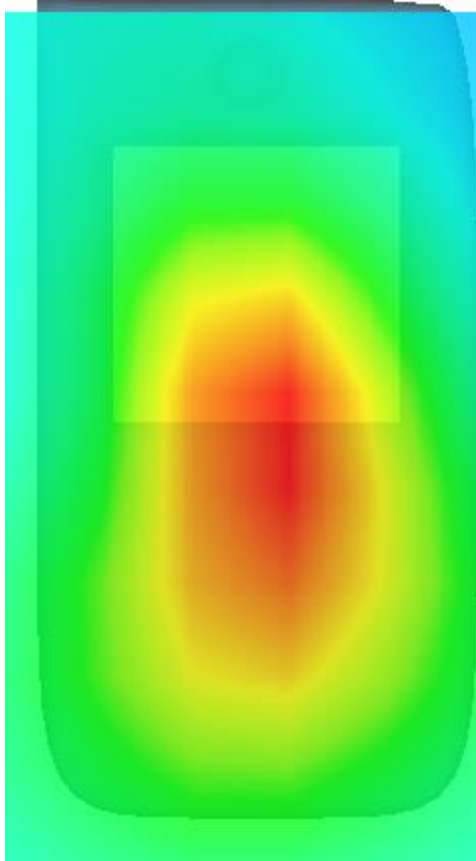
**Maximum location: X=3.00, Y=-2.00**

**SAR Peak: 0.82 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.308015 |
| <b>SAR 1g (W/Kg)</b>  | 0.633292 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.8208</b> | <b>0.5592</b> | <b>0.3411</b> | <b>0.2123</b> | <b>0.1297</b> | <b>0.0800</b> | <b>0.0490</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 10 minutes 16 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Left head</u>                               |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>Band4 WCDMA1700</u>                         |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.01</u>                                    |

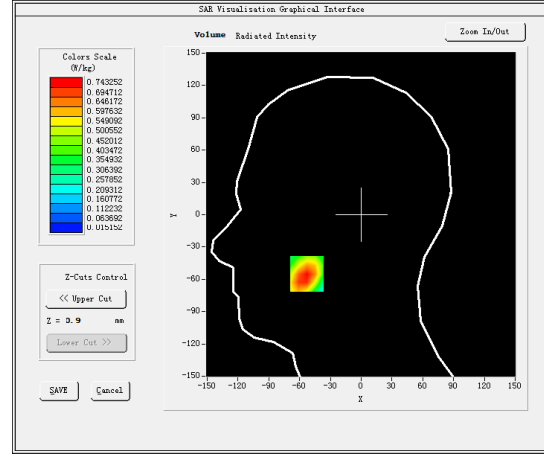
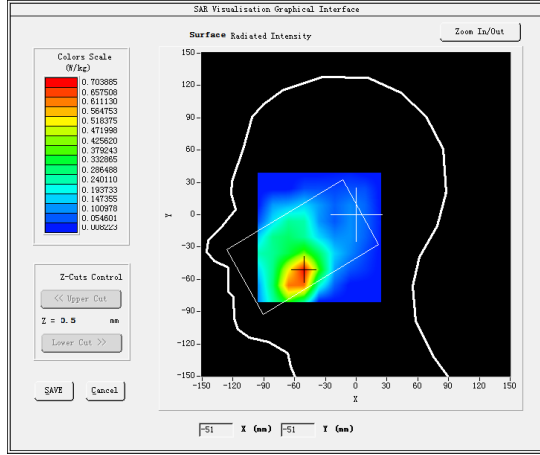
### **B. SAR Measurement Results**

Middle Band SAR (Channel 1513):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1752.600000 |
| <b>Relative permittivity (real part)</b>      | 39.768299   |
| <b>Relative permittivity (imaginary part)</b> | 14.198700   |
| <b>Conductivity (S/m)</b>                     | 1.366230    |
| <b>Variation (%)</b>                          | 1.300000    |

### SURFACE SAR

### VOLUME SAR

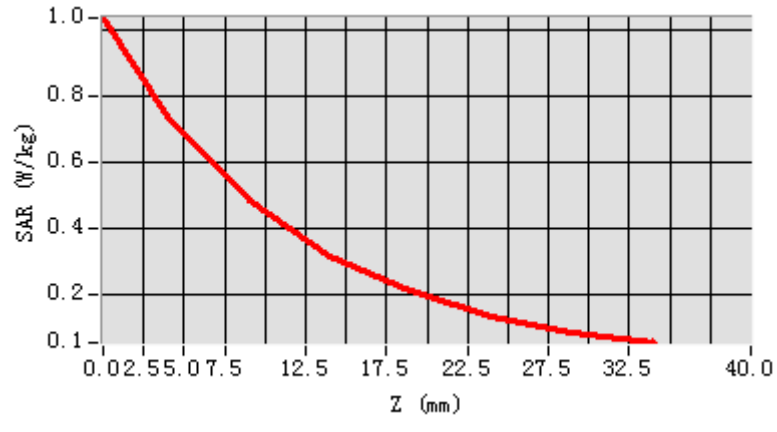


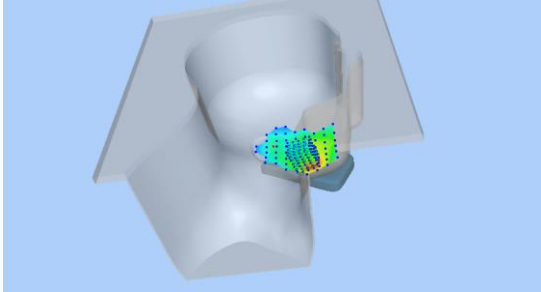
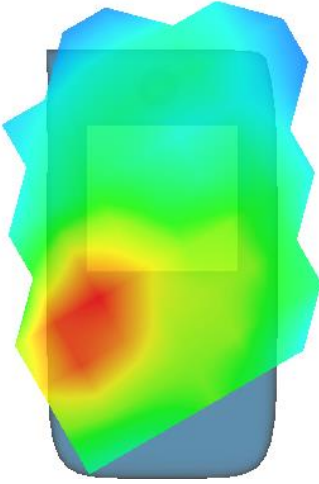
**Maximum location: X=-53.00, Y=-55.00**

**SAR Peak: 1.08 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.297540 |
| <b>SAR 1g (W/Kg)</b>  | 0.430169 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.0372</b> | <b>0.7433</b> | <b>0.4883</b> | <b>0.3200</b> | <b>0.2143</b> | <b>0.1381</b> | <b>0.0906</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 8

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 10 minutes 50 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>Band4 WCDMA1700</u>                         |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.16</u>                                    |

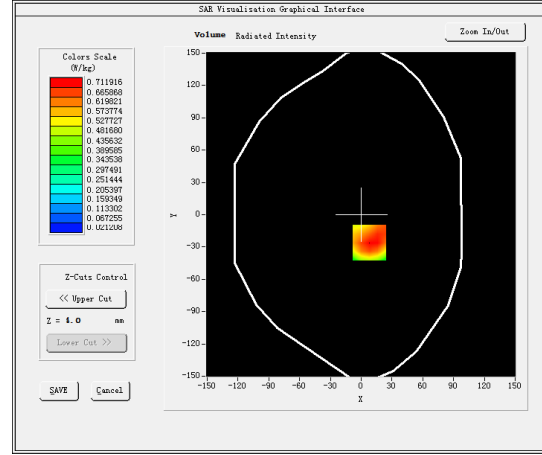
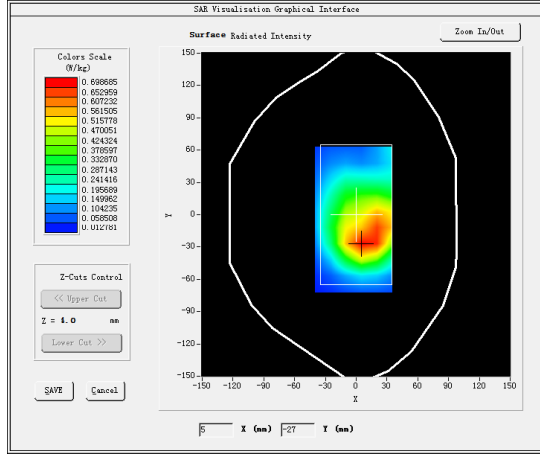
### **B. SAR Measurement Results**

Middle Band SAR (Channel 1513):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1752.600000 |
| <b>Relative permittivity (real part)</b>      | 53.306900   |
| <b>Relative permittivity (imaginary part)</b> | 15.297200   |
| <b>Conductivity (S/m)</b>                     | 1.471931    |
| <b>Variation (%)</b>                          | -0.630000   |

### SURFACE SAR

### VOLUME SAR



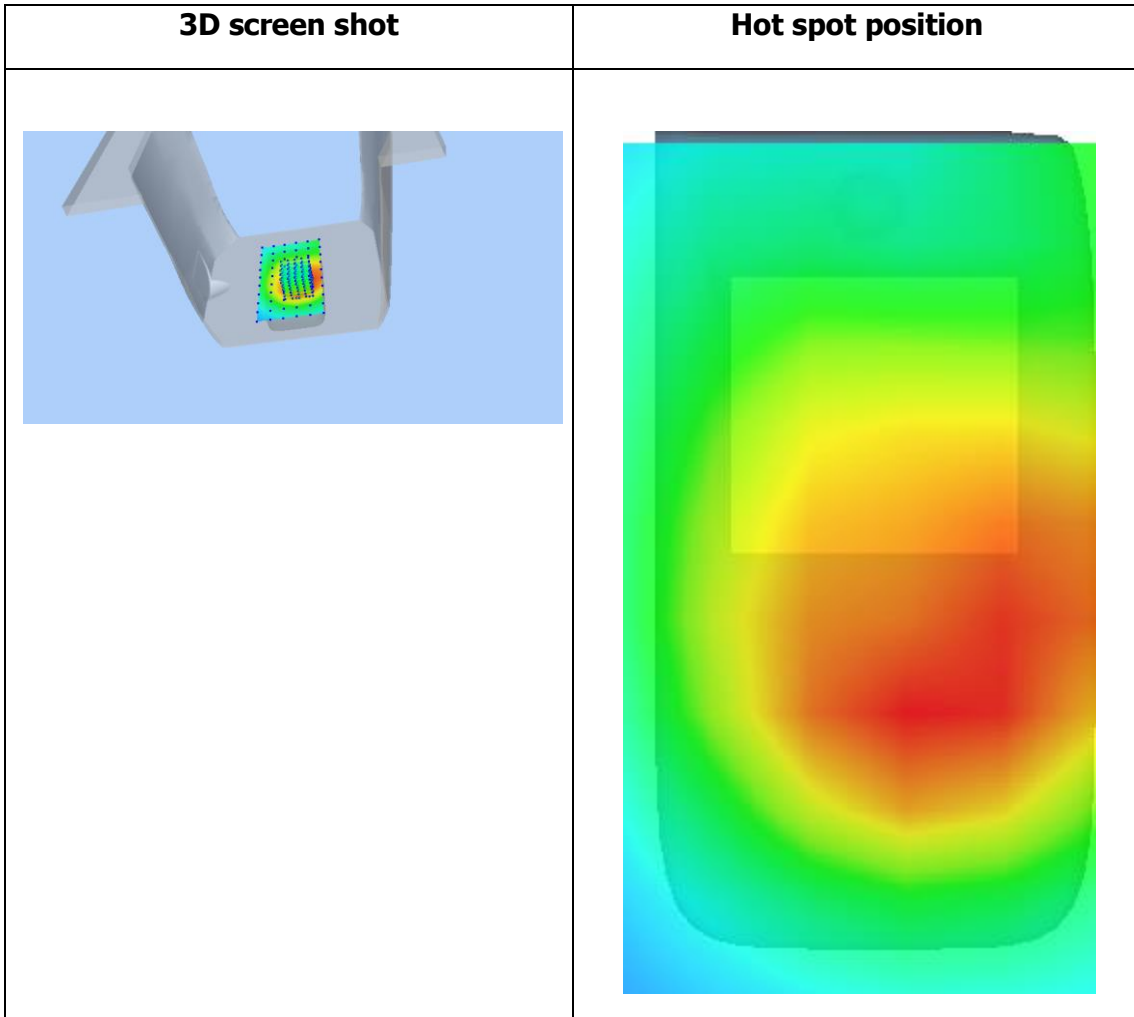
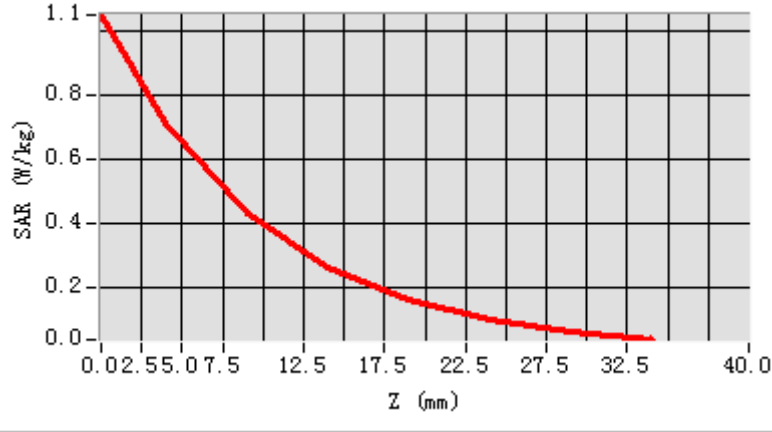
**Maximum location: X=8.00, Y=-26.00**

**SAR Peak: 1.06 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.337276 |
| <b>SAR 1g (W/Kg)</b>  | 0.485295 |



| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 1.0523 | 0.7119 | 0.4307 | 0.2643 | 0.1614 | 0.0986 | 0.0599 |



## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 8 minutes 12 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Left head</u>                               |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>Band5 WCDMA850</u>                          |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.93</u>                                    |

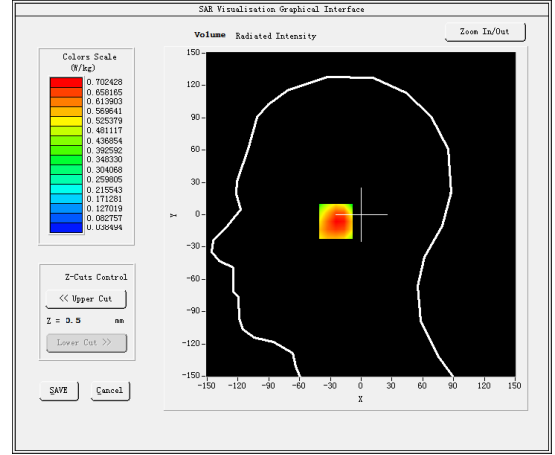
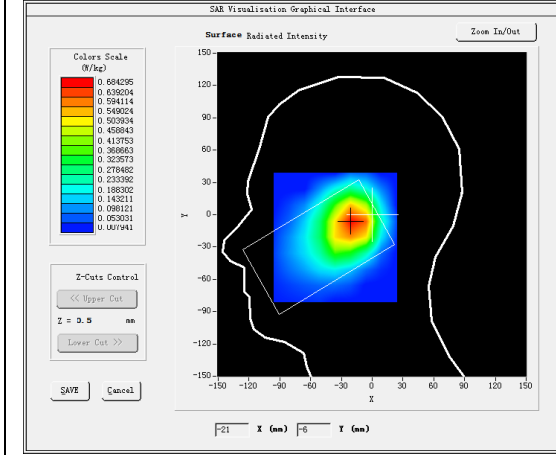
### **B. SAR Measurement Results**

Middle Band SAR (Channel 4182):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 40.234680  |
| <b>Relative permittivity (imaginary part)</b> | 19.852501  |
| <b>Conductivity (S/m)</b>                     | 0.922480   |
| <b>Variation (%)</b>                          | 0.860000   |

### SURFACE SAR

### VOLUME SAR

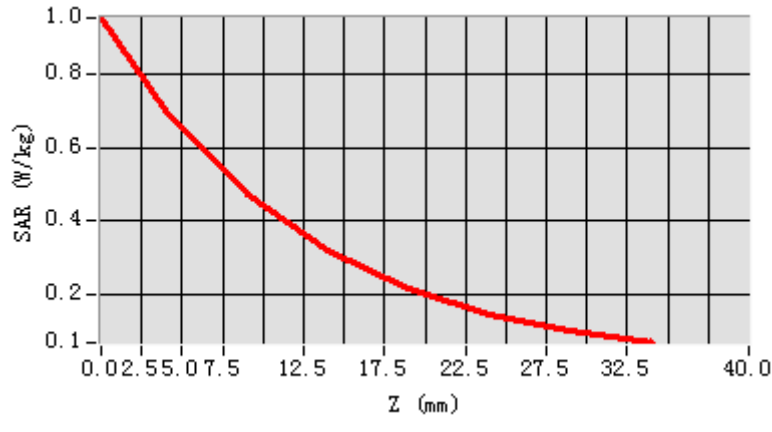


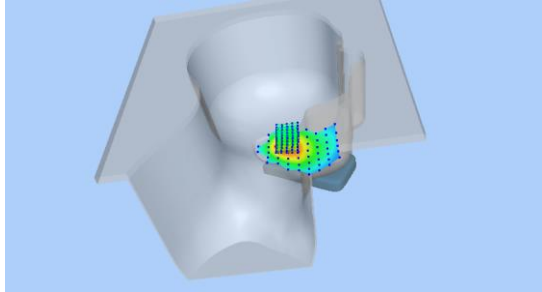
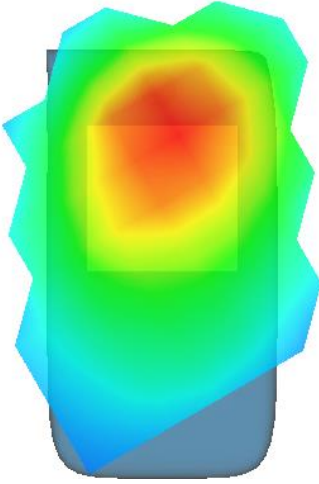
**Maximum location: X=-19.00, Y=-6.00**

**SAR Peak: 1.00 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.446988 |
| <b>SAR 1g (W/Kg)</b>  | 0.697497 |

| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.9525 | 0.7024 | 0.4761 | 0.3213 | 0.2178 | 0.1488 | 0.1017 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 10

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 10 minutes 1 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>Band5 WCDMA850</u>                          |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>5.07</u>                                    |

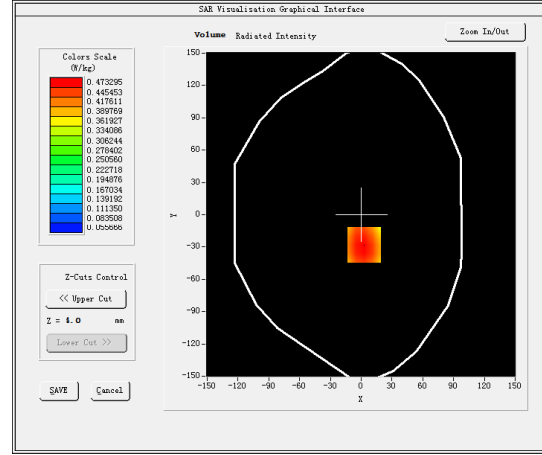
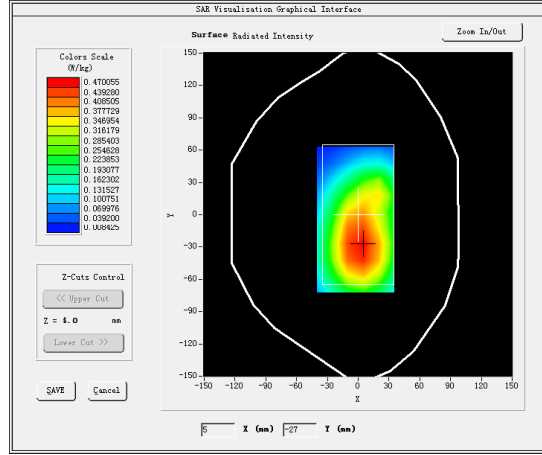
### **B. SAR Measurement Results**

Middle Band SAR (Channel 4182):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 53.916260  |
| <b>Relative permittivity (imaginary part)</b> | 21.316219  |
| <b>Conductivity (S/m)</b>                     | 0.990494   |
| <b>Variation (%)</b>                          | 2.400000   |

### SURFACE SAR

### VOLUME SAR

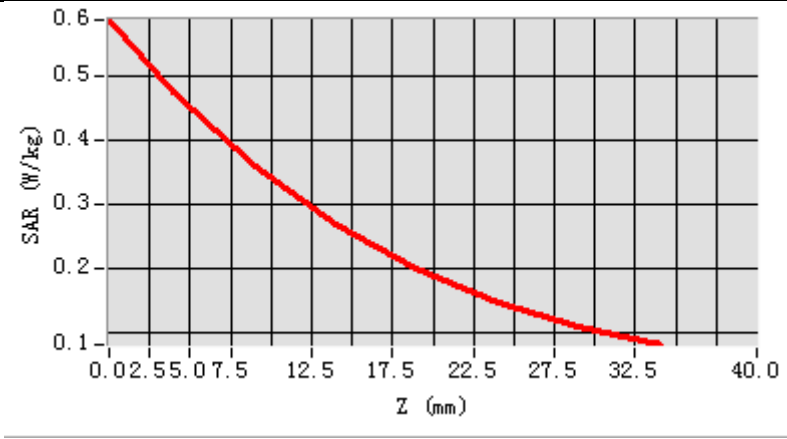


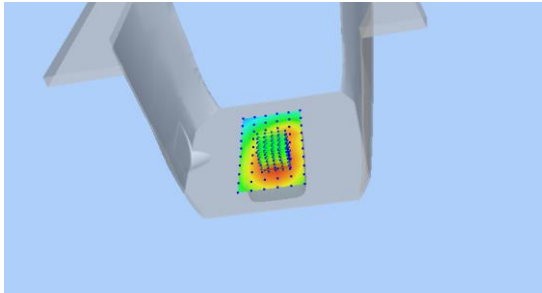
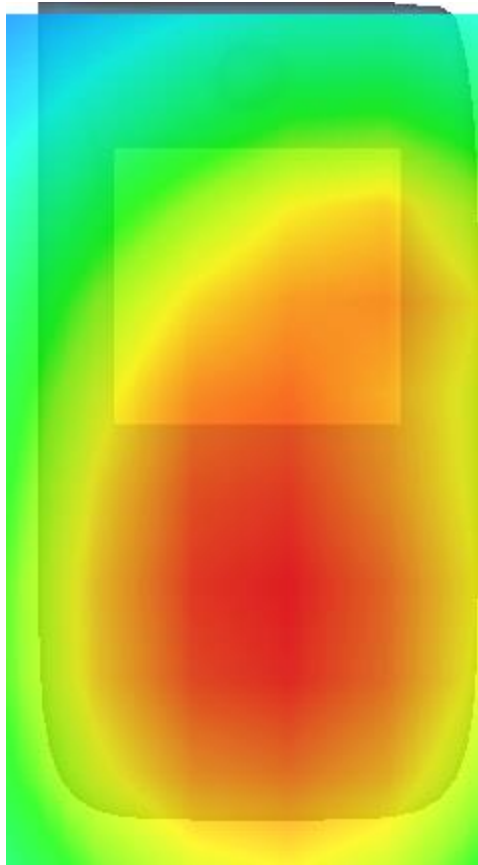
**Maximum location: X=3.00, Y=-28.00**

**SAR Peak: 0.59 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.336590 |
| <b>SAR 1g (W/Kg)</b>  | 0.467948 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.5867</b> | <b>0.4733</b> | <b>0.3574</b> | <b>0.2695</b> | <b>0.1987</b> | <b>0.1475</b> | <b>0.1091</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 11

20M-1RB#99

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 6 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Right head</u>                              |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>LTE band 2</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.63</u>                                    |

### **B. SAR Measurement Results**

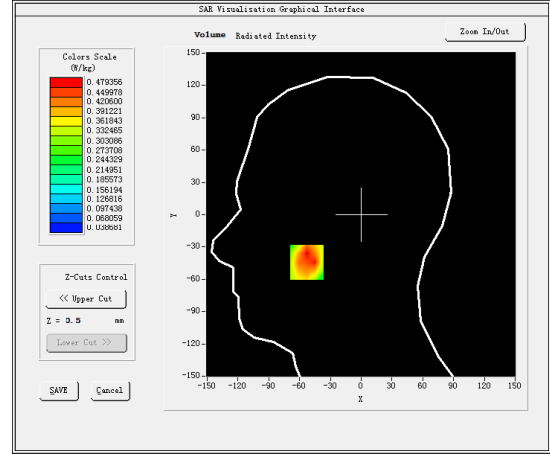
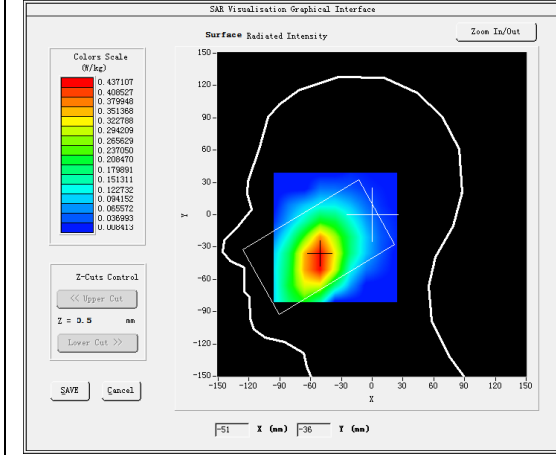
Higher Band SAR (Channel 19100):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1900.000000 |
| <b>Relative permittivity (real part)</b>      | 39.982151   |
| <b>Relative permittivity (imaginary part)</b> | 13.318046   |
| <b>Conductivity (S/m)</b>                     | 1.411277    |
| <b>Variation (%)</b>                          | -0.430000   |



### SURFACE SAR

### VOLUME SAR

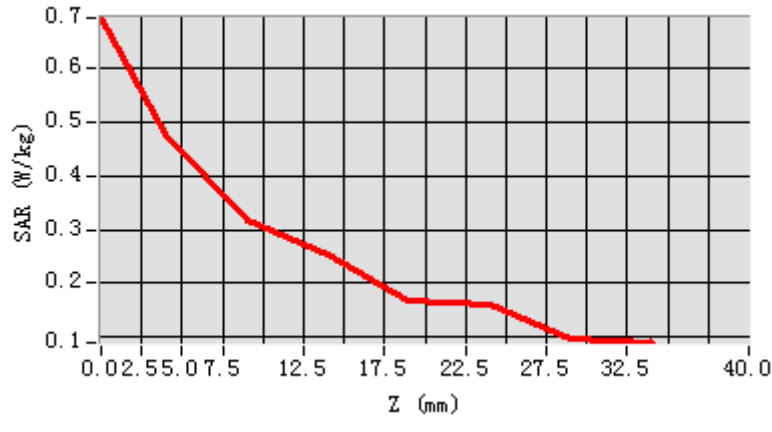


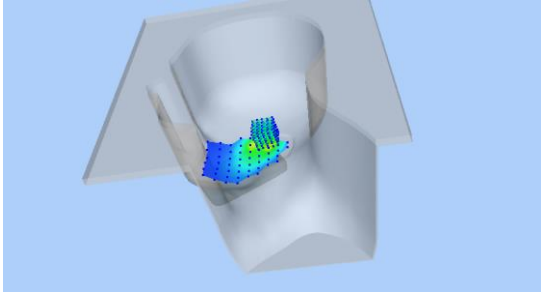
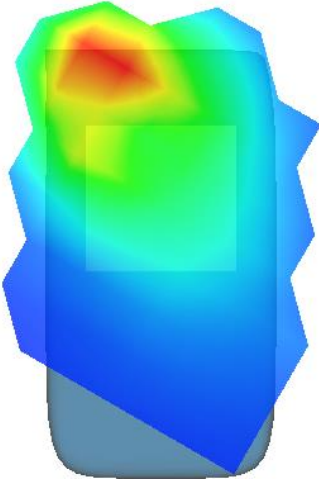
**Maximum location: X=-53.00, Y=-44.00**

**SAR Peak: 0.69 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.222687 |
| <b>SAR 1g (W/Kg)</b>  | 0.425654 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.6947</b> | <b>0.4794</b> | <b>0.3185</b> | <b>0.2521</b> | <b>0.1657</b> | <b>0.1599</b> | <b>0.0965</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 12

Rear-side-20M-25RB#25-high

Type: Phone measurement (Complete)

Date of measurement: 24/5/2017

Measurement duration: 8 minutes 25 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>LTE band 2</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.78</u>                                    |

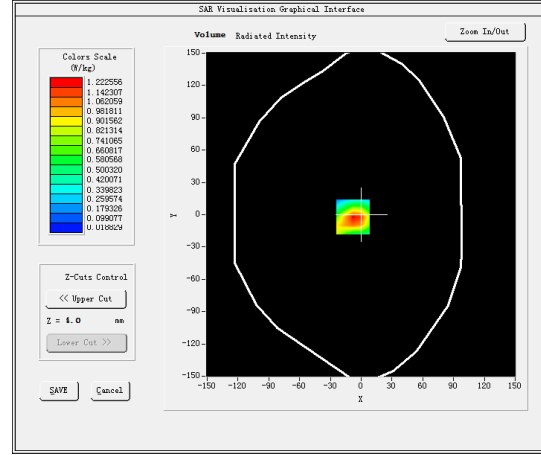
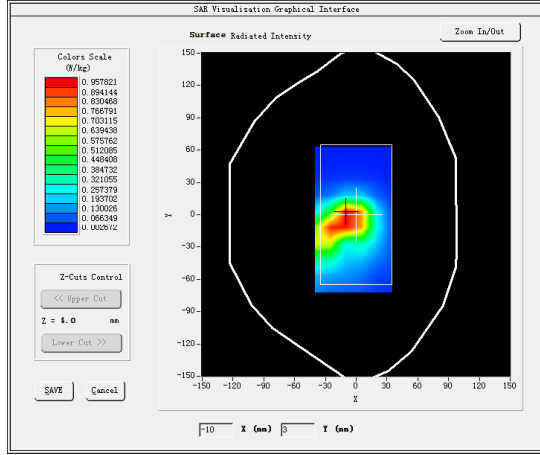
### **B. SAR Measurement Results**

Higher Band SAR (Channel 19100):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1900.000000 |
| <b>Relative permittivity (real part)</b>      | 53.385151   |
| <b>Relative permittivity (imaginary part)</b> | 14.756100   |
| <b>Conductivity (S/m)</b>                     | 1.561277    |
| <b>Variation (%)</b>                          | 0.240000    |

### SURFACE SAR

### VOLUME SAR

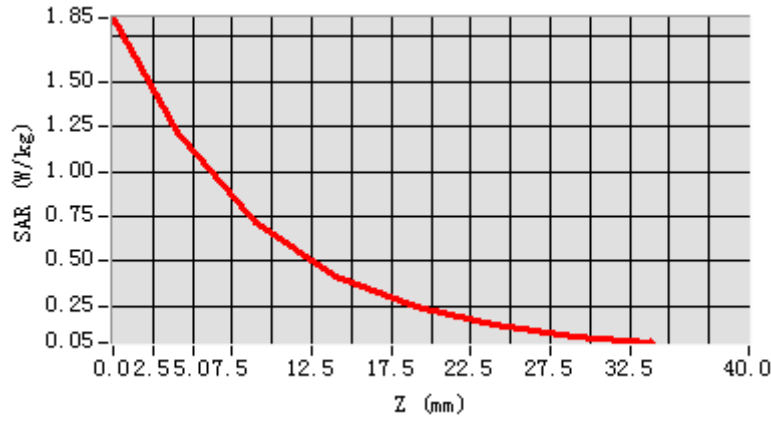


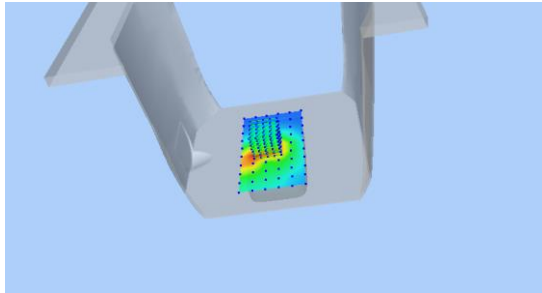
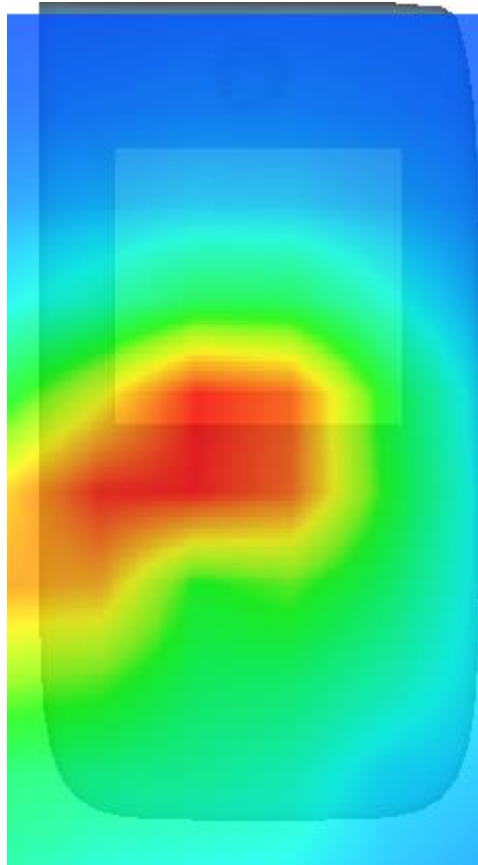
**Maximum location: X=-8.00, Y=-2.00**

**SAR Peak: 1.96 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.637972 |
| <b>SAR 1g (W/Kg)</b>  | 0.720328 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.8533</b> | <b>1.2226</b> | <b>0.7110</b> | <b>0.4196</b> | <b>0.2455</b> | <b>0.1430</b> | <b>0.0837</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 13

20M-1RB#99

Type: Phone measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 8 minutes 9 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Right head</u>                              |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>LTE band 4</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.01</u>                                    |

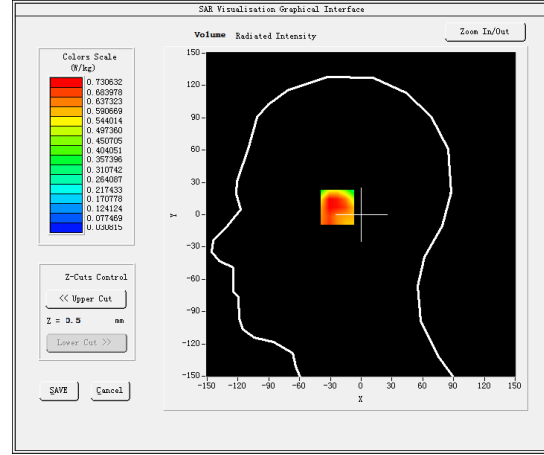
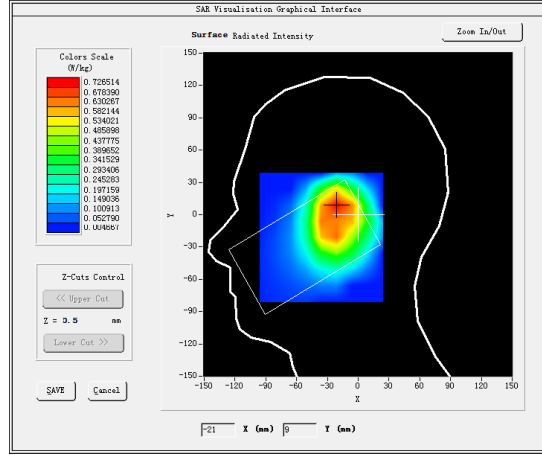
### **B. SAR Measurement Results**

Higher Band SAR (Channel 20300):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1745.000000 |
| <b>Relative permittivity (real part)</b>      | 40.175499   |
| <b>Relative permittivity (imaginary part)</b> | 14.048900   |
| <b>Conductivity (S/m)</b>                     | 1.365475    |
| <b>Variation (%)</b>                          | 0.360000    |

### SURFACE SAR

### VOLUME SAR

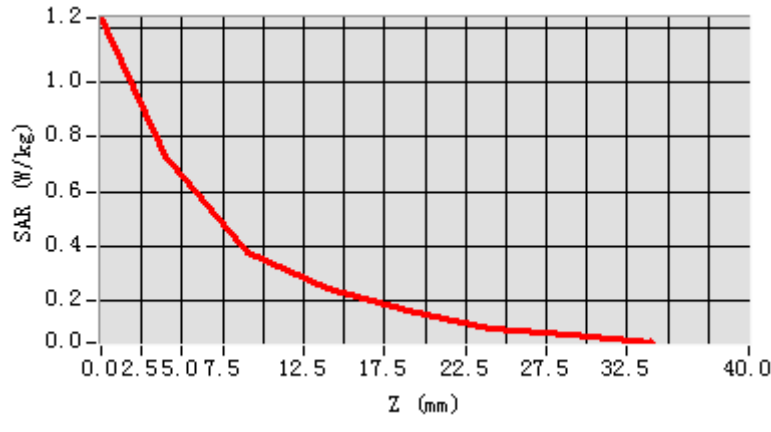


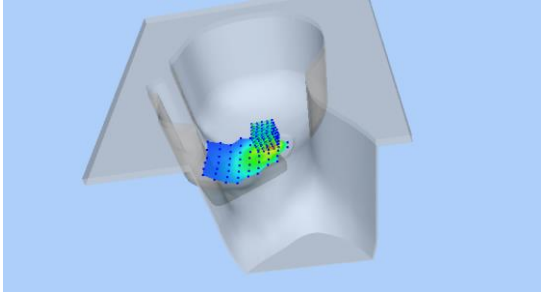
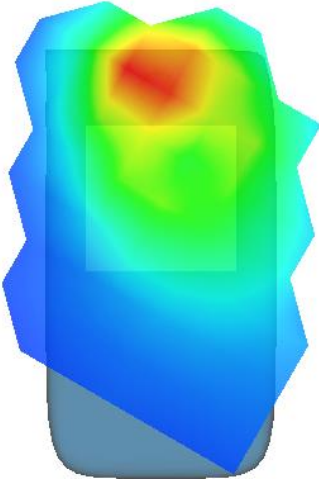
**Maximum location: X=-20.00, Y=8.00**

**SAR Peak: 1.22 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.470358 |
| <b>SAR 1g (W/Kg)</b>  | 0.705315 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.2245</b> | <b>0.7306</b> | <b>0.3794</b> | <b>0.2418</b> | <b>0.1660</b> | <b>0.0981</b> | <b>0.0765</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |



## MEASUREMENT 14

Rear-side-20M-1RB#99-high

Type: Phone measurement (Complete)

Date of measurement: 15/6/2017

Measurement duration: 8 minutes 16 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>LTE band 4</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.16</u>                                    |

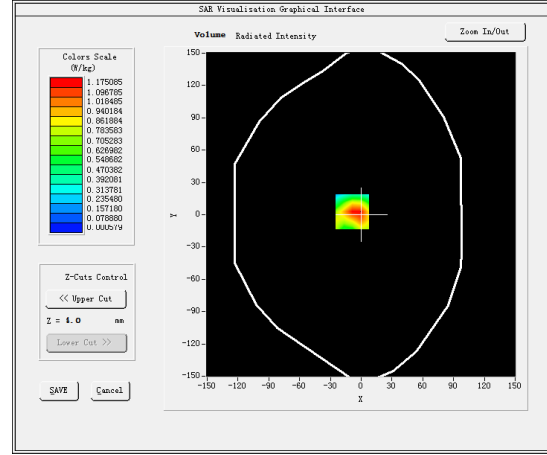
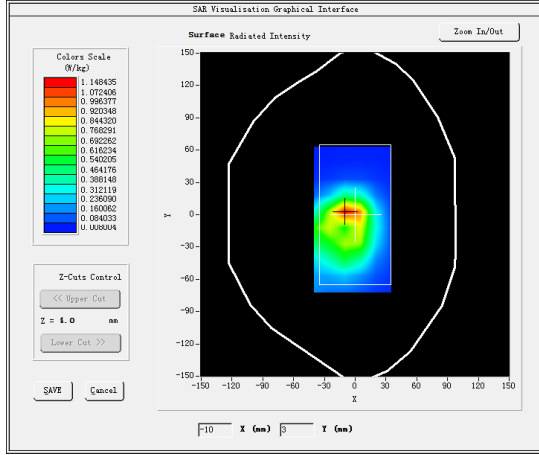
### **B. SAR Measurement Results**

Higher Band SAR (Channel 20300):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1745.000000 |
| <b>Relative permittivity (real part)</b>      | 53.211948   |
| <b>Relative permittivity (imaginary part)</b> | 15.353750   |
| <b>Conductivity (S/m)</b>                     | 1.492299    |
| <b>Variation (%)</b>                          | -1.770000   |

### SURFACE SAR

### VOLUME SAR

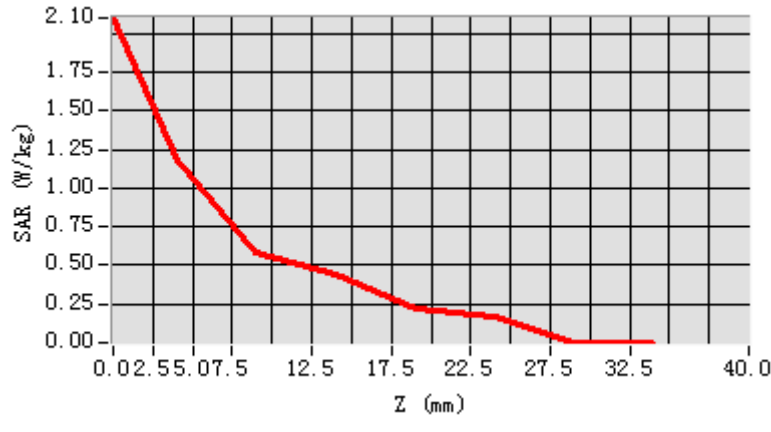


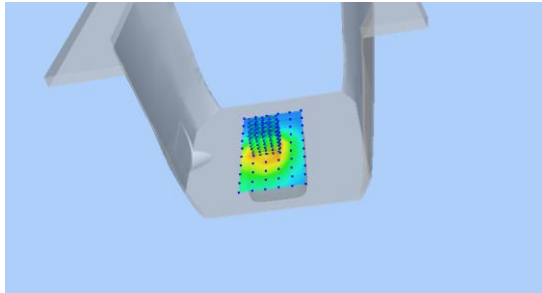
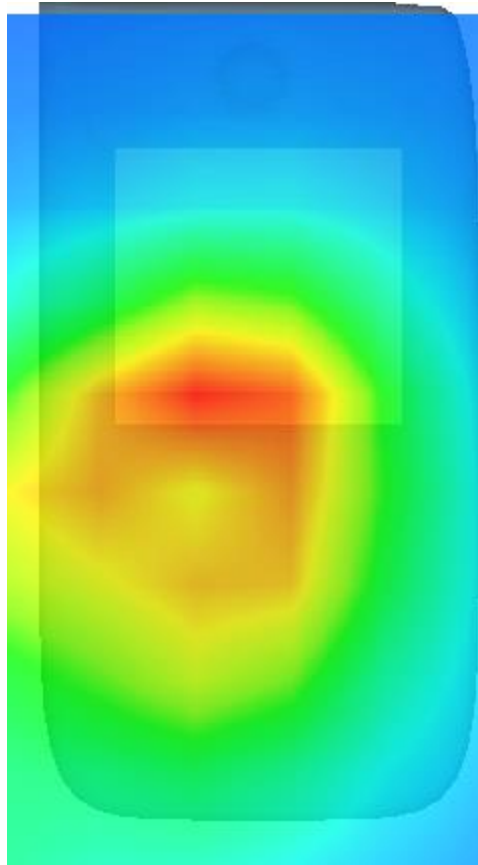
**Maximum location: X=-9.00, Y=3.00**

**SAR Peak: 1.90 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.522758 |
| <b>SAR 1g (W/Kg)</b>  | 0.700776 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>2.1009</b> | <b>1.1751</b> | <b>0.5837</b> | <b>0.4434</b> | <b>0.2207</b> | <b>0.1635</b> | <b>0.0006</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 15

10M-25RB#25

ype: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 8 minutes 9 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Left head</u>                               |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>LTE band 5</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.65</u>                                    |

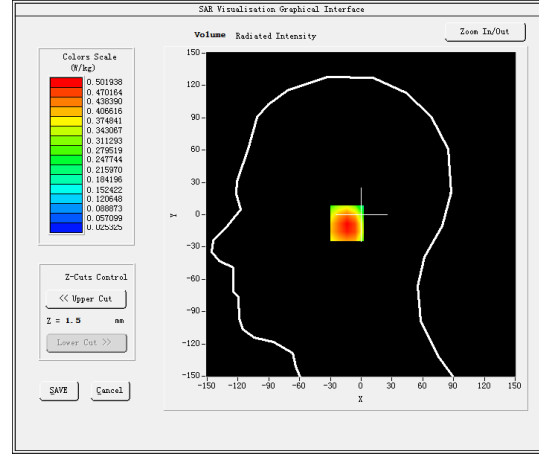
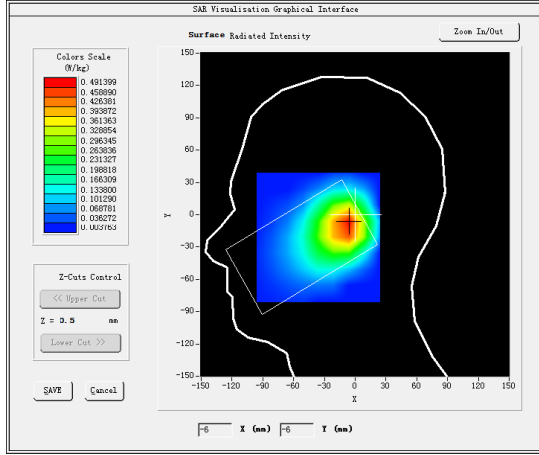
### **B. SAR Measurement Results**

Higher Band SAR (Channel 20600):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 843.500000 |
| <b>Relative permittivity (real part)</b>      | 40.140049  |
| <b>Relative permittivity (imaginary part)</b> | 19.885000  |
| <b>Conductivity (S/m)</b>                     | 0.931833   |
| <b>Variation (%)</b>                          | -0.910000  |

### SURFACE SAR

### VOLUME SAR

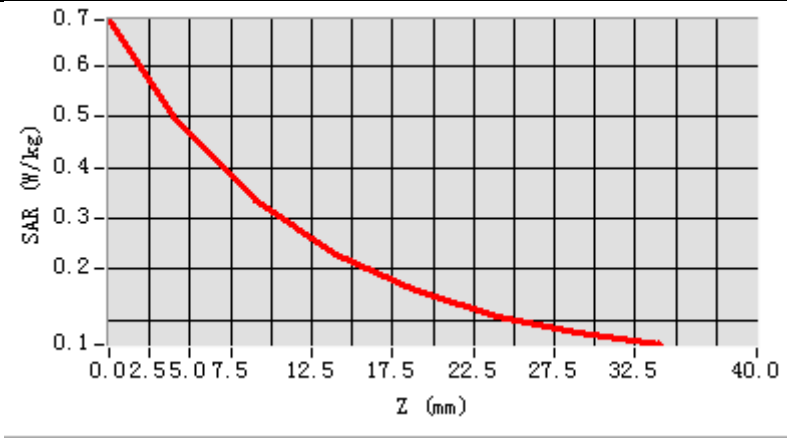


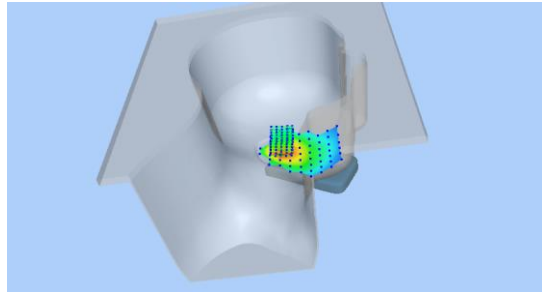
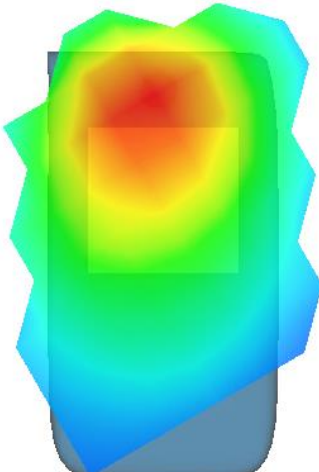
**Maximum location: X=-7.00, Y=-8.00**

**SAR Peak: 0.72 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.316846 |
| <b>SAR 1g (W/Kg)</b>  | 0.498574 |

| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.6916 | 0.5019 | 0.3368 | 0.2299 | 0.1572 | 0.1079 | 0.0734 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 16

Rear-side-10M-25RB#25-high

Type: Phone measurement (Complete)

Date of measurement: 10/6/2017

Measurement duration: 9 minutes 32 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>LTE band 5</u>                              |
| <b><u>Channels</u></b>          | <u>High</u>                                    |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.83</u>                                    |

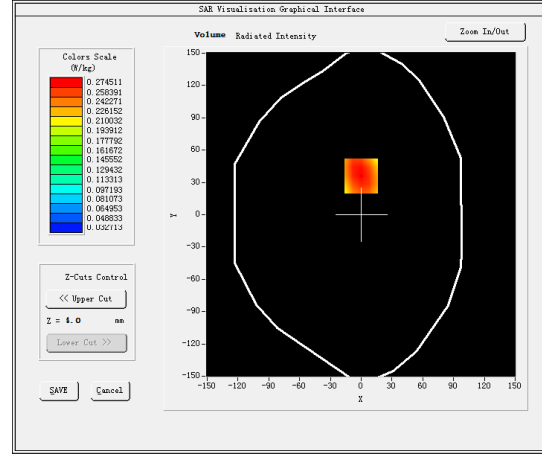
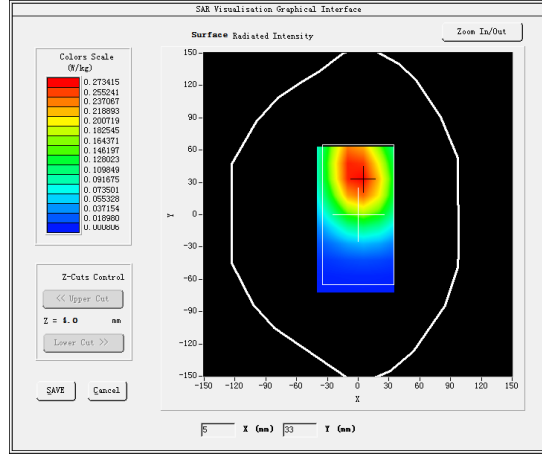
### **B. SAR Measurement Results**

Higher Band SAR (Channel 20600):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 843.500000 |
| <b>Relative permittivity (real part)</b>      | 53.800152  |
| <b>Relative permittivity (imaginary part)</b> | 21.331751  |
| <b>Conductivity (S/m)</b>                     | 0.999630   |
| <b>Variation (%)</b>                          | -1.490000  |

### SURFACE SAR

### VOLUME SAR



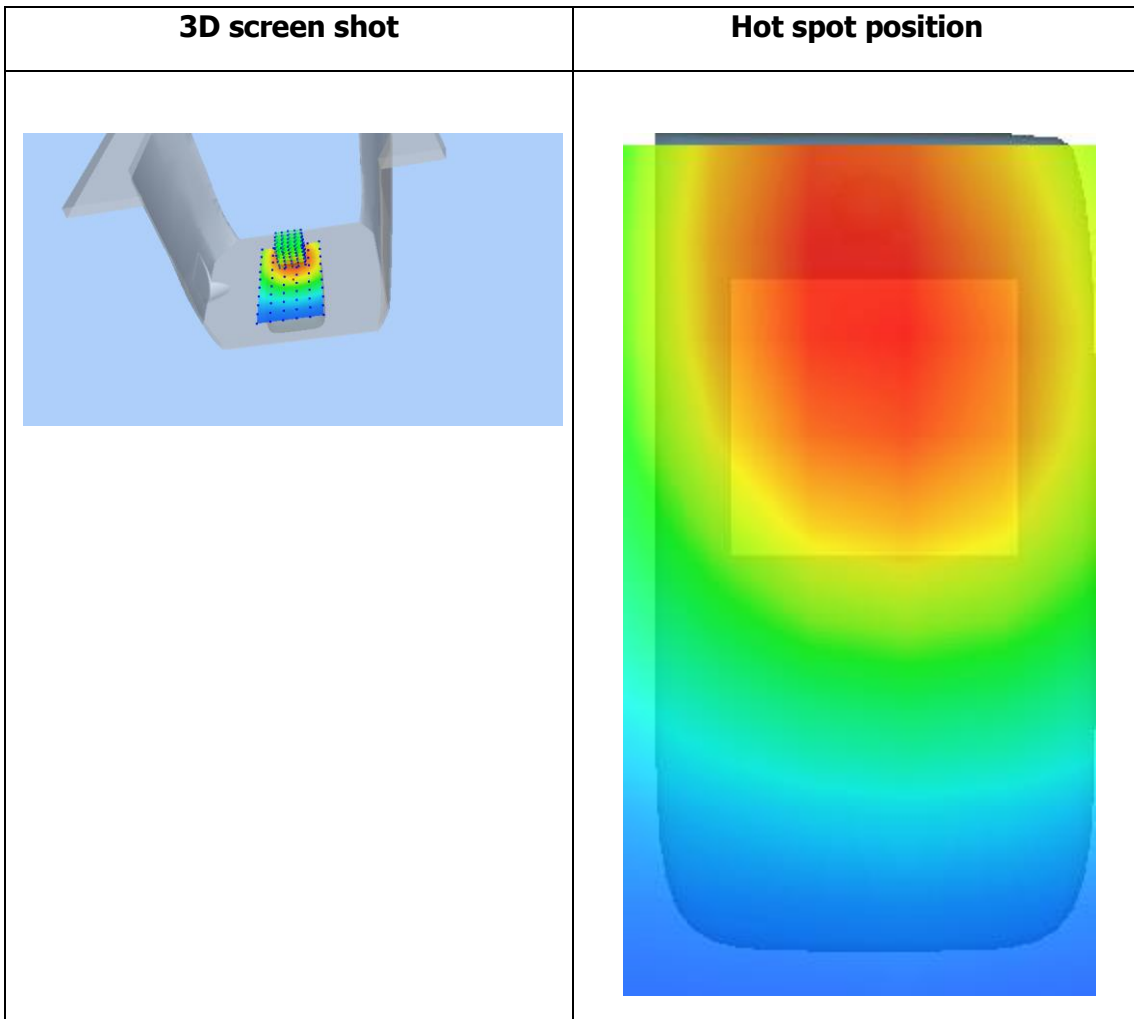
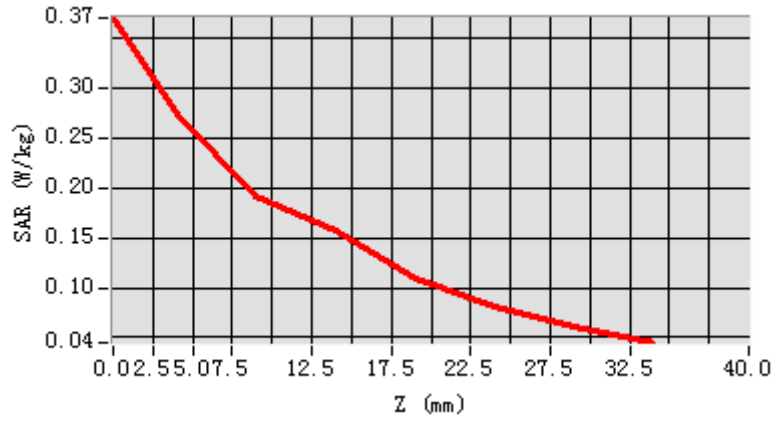
**Maximum location: X=0.00, Y=36.00**

**SAR Peak: 0.37 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.191748 |
| <b>SAR 1g (W/Kg)</b>  | 0.275318 |



|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.3707</b> | <b>0.2745</b> | <b>0.1913</b> | <b>0.1569</b> | <b>0.1087</b> | <b>0.0814</b> | <b>0.0604</b> |



## MEASUREMENT 17

20M-1RB#99

Type: Phone measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 8 minutes 13 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Left head</u>                               |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>LTE band 7</u>                              |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.0</u>                                     |

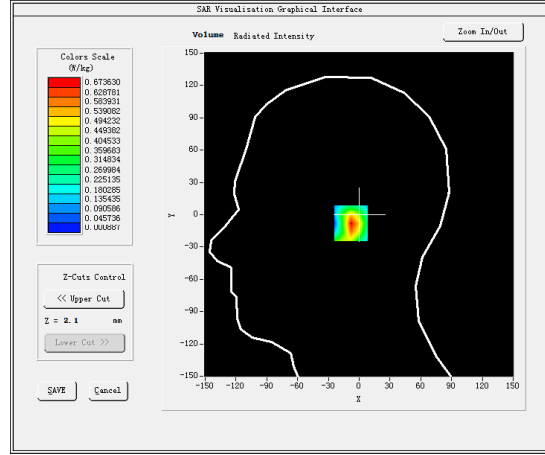
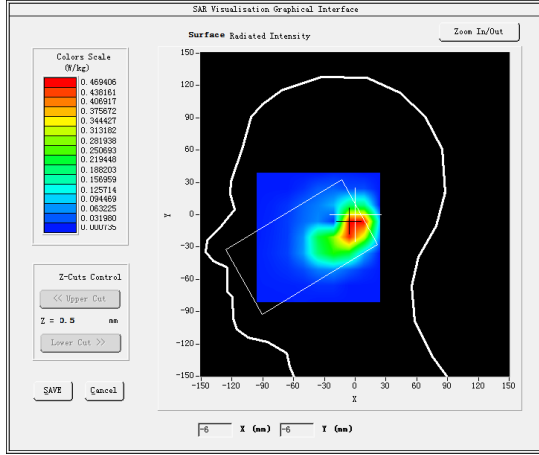
### **B. SAR Measurement Results**

Higher Band SAR (Channel 20850):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 2510.000000 |
| <b>Relative permittivity (real part)</b>      | 38.582001   |
| <b>Relative permittivity (imaginary part)</b> | 13.554400   |
| <b>Conductivity (S/m)</b>                     | 1.927737    |
| <b>Variation (%)</b>                          | -0.510000   |

### SURFACE SAR

### VOLUME SAR

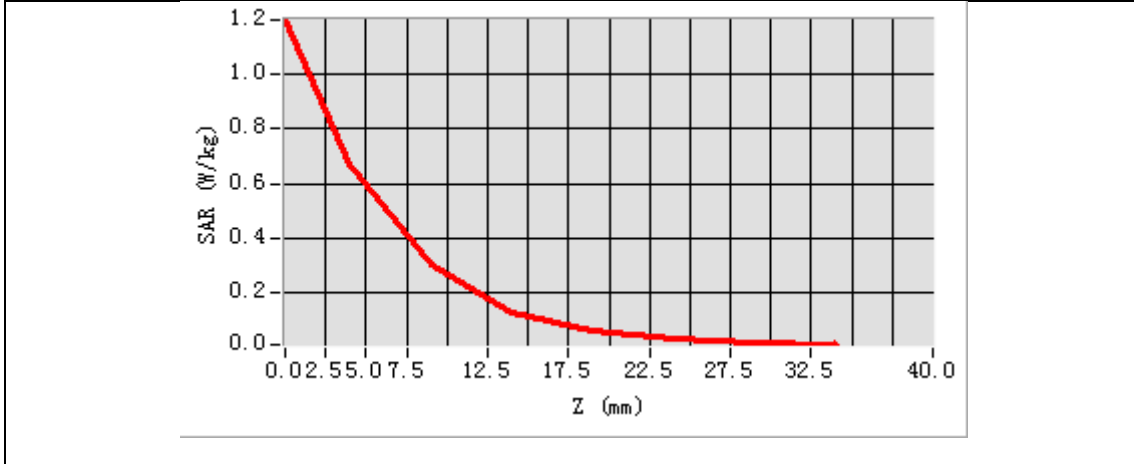


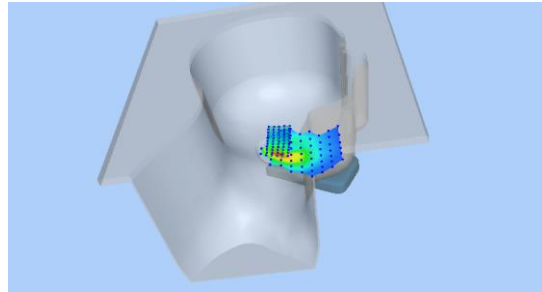
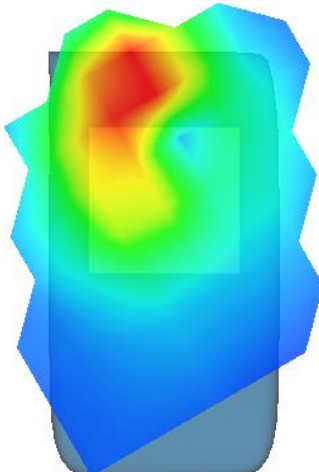
**Maximum location: X=0.00, Y=-8.00**

**SAR Peak: 1.20 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.405011 |
| <b>SAR 1g (W/Kg)</b>  | 0.647663 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.2023</b> | <b>0.6736</b> | <b>0.3012</b> | <b>0.1228</b> | <b>0.0605</b> | <b>0.0262</b> | <b>0.0122</b> |



| <b>3D screen shot</b>   | <b>Hot spot position</b>   |
|---|--|
|  |  |

## MEASUREMENT 18

Top-side-20M-1RB#99-low

Type: Phone measurement (Complete)

Date of measurement: 8/6/2017

Measurement duration: 10 minutes 34 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>LTE band 7</u>                              |
| <b><u>Channels</u></b>          | <u>Low</u>                                     |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.11</u>                                    |

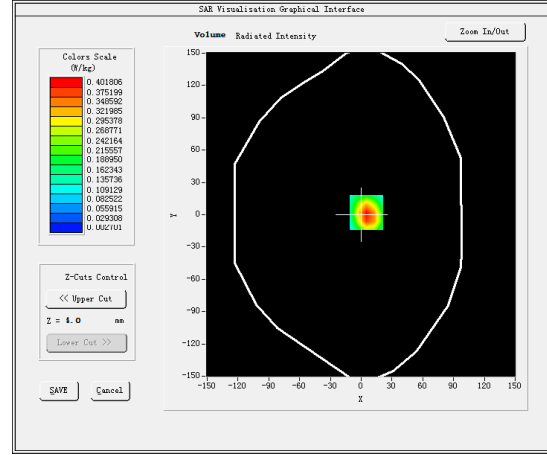
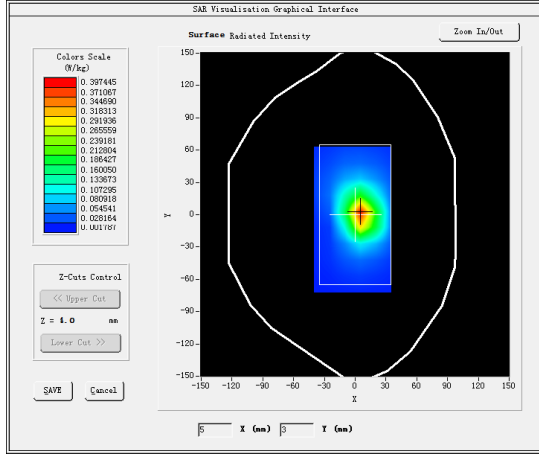
### **B. SAR Measurement Results**

Lower Band SAR (Channel 20850):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 2510.000000 |
| <b>Relative permittivity (real part)</b>      | 52.502410   |
| <b>Relative permittivity (imaginary part)</b> | 14.481331   |
| <b>Conductivity (S/m)</b>                     | 2.021114    |
| <b>Variation (%)</b>                          | -1.530000   |

### SURFACE SAR

### VOLUME SAR

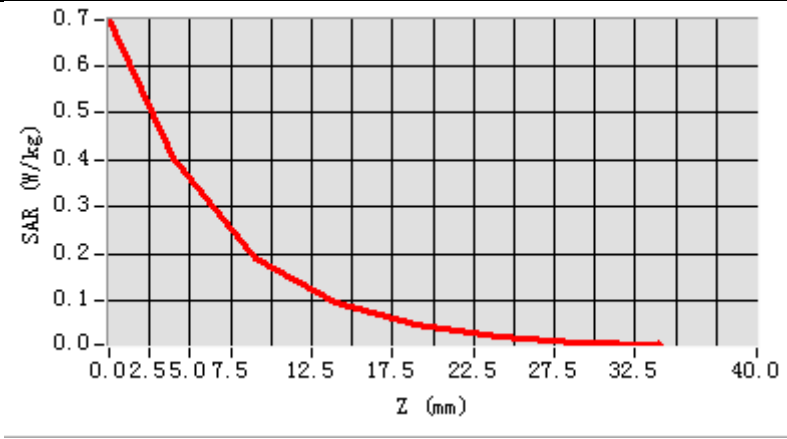


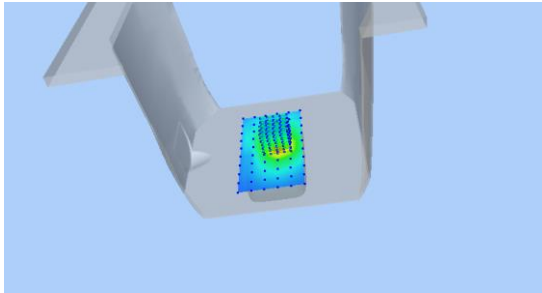
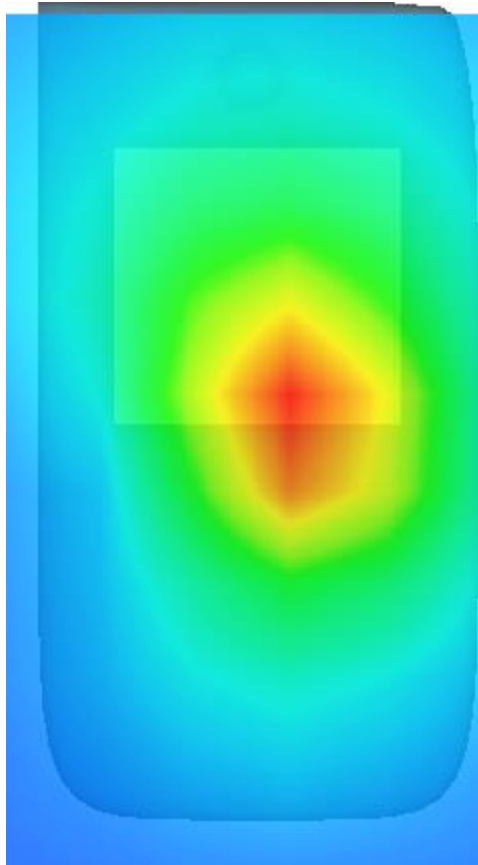
**Maximum location: X=5.00, Y=2.00**

**SAR Peak: 0.70 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.185984 |
| <b>SAR 1g (W/Kg)</b>  | 0.413202 |

| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.6981 | 0.4018 | 0.1893 | 0.0962 | 0.0483 | 0.0243 | 0.0124 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 19

10M-1RB#49

Type: Phone measurement (Complete)

Date of measurement: 18/6/2017

Measurement duration: 8 minutes 12 seconds

### **A. Experimental conditions.**

|                               |  |
|-------------------------------|--|
| <b><u>Area Scan</u></b>       | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>        | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>         | <u>Left head</u>                               |
| <b><u>Device Position</u></b> | <u>Cheek</u>                                   |
| <b><u>Band</u></b>            | <u>LTE band 12</u>                             |
| <b><u>Channels</u></b>        | <u>Middle</u>                                  |
| <b><u>Signal</u></b>          | <u>Duty cycle:1:1</u>                          |

### **B. SAR Measurement Results**

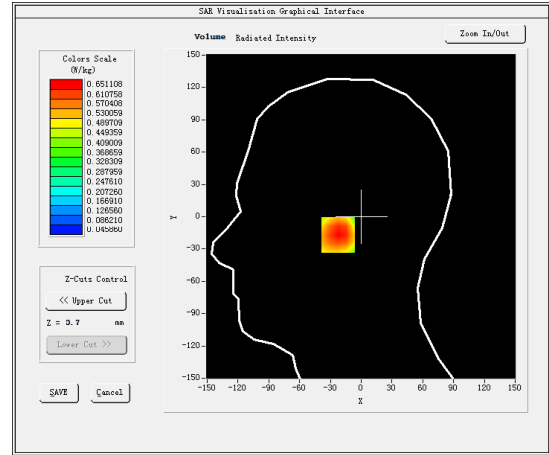
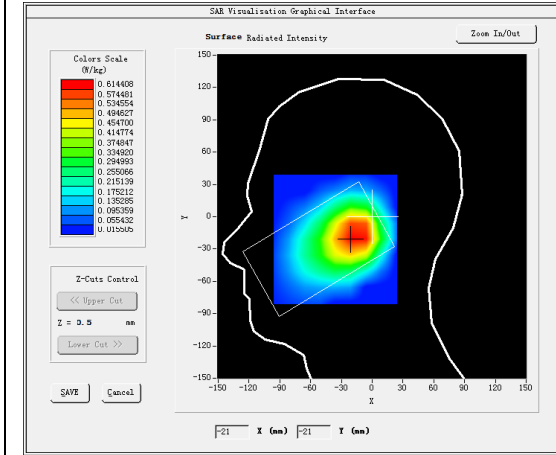
Middle Band SAR (Channel 23095):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 707.500000 |
| <b>Relative permittivity (real part)</b>      | 42.126667  |
| <b>Relative permittivity (imaginary part)</b> | 23.264000  |
| <b>Conductivity (S/m)</b>                     | 0.914404   |
| <b>Variation (%)</b>                          | 0.180000   |



### SURFACE SAR

### VOLUME SAR

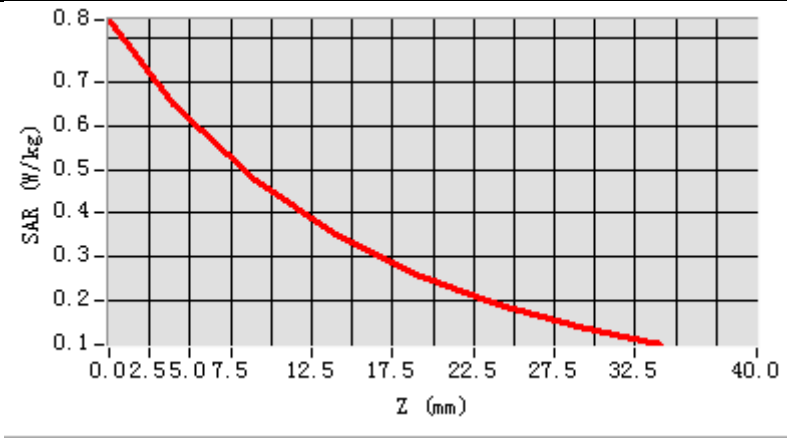


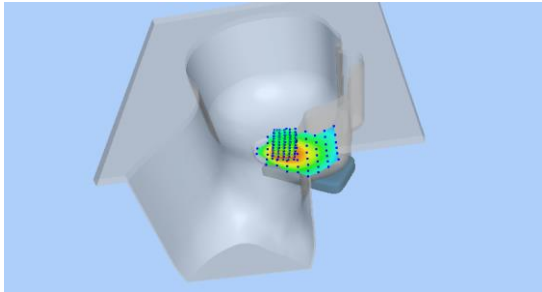
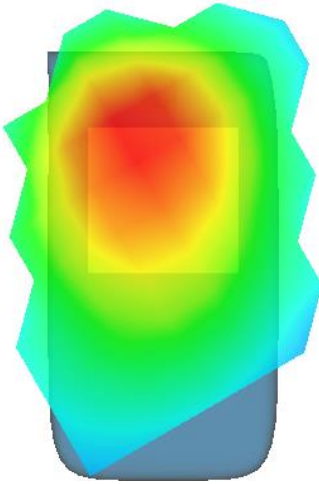
**Maximum location: X=-15.00, Y=-17.00**

**SAR Peak: 0.88 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.448545 |
| <b>SAR 1g (W/Kg)</b>  | 0.645038 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.8426</b> | <b>0.6511</b> | <b>0.4760</b> | <b>0.3529</b> | <b>0.2609</b> | <b>0.1913</b> | <b>0.1372</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 20

Rear-side-10M-1RB#49-middle

Type: Phone measurement (Complete)

Date of measurement: 18/6/2017

Measurement duration: 9 minutes 6 seconds

### **A. Experimental conditions.**

|                               |  |
|-------------------------------|--|
| <b><u>Area Scan</u></b>       | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>        | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>         | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b> | <u>Body</u>                                    |
| <b><u>Band</u></b>            | <u>LTE band 12</u>                             |
| <b><u>Channels</u></b>        | <u>Middle</u>                                  |
| <b><u>Signal</u></b>          | <u>Duty cycle:1:1</u>                          |

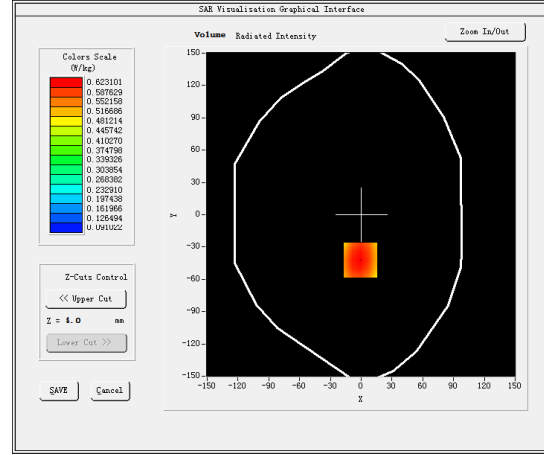
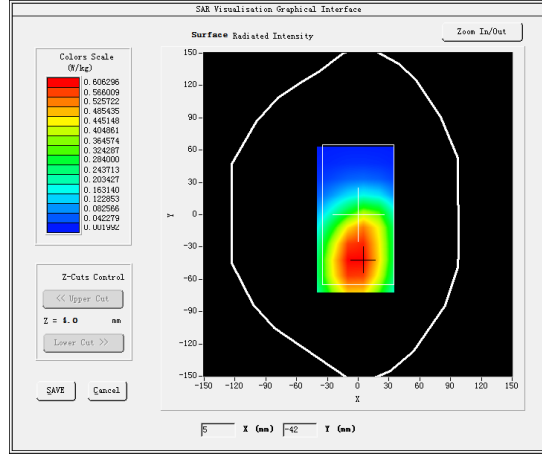
### **B. SAR Measurement Results**

Middle Band SAR (Channel 23095):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 707.500000 |
| <b>Relative permittivity (real part)</b>      | 54.258801  |
| <b>Relative permittivity (imaginary part)</b> | 25.481050  |
| <b>Conductivity (S/m)</b>                     | 1.001547   |
| <b>Variation (%)</b>                          | -0.630000  |

### SURFACE SAR

### VOLUME SAR

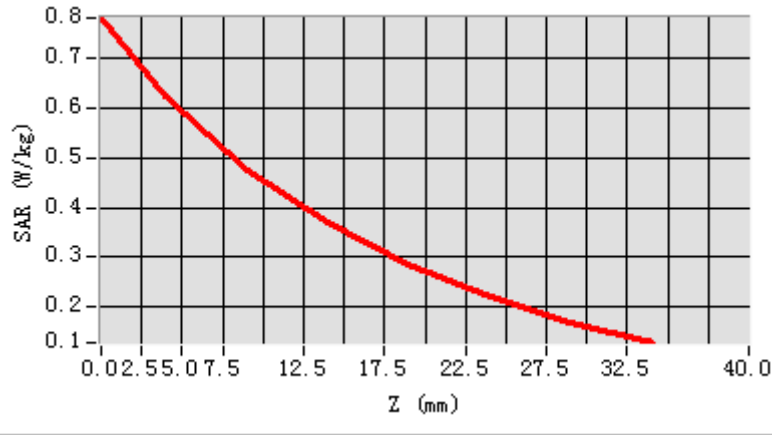


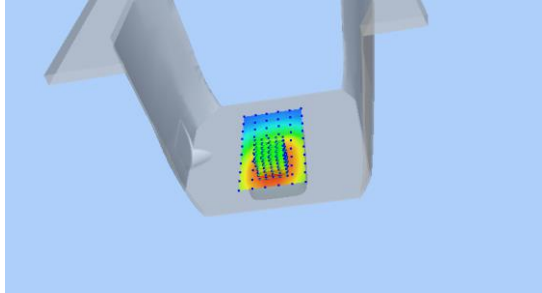
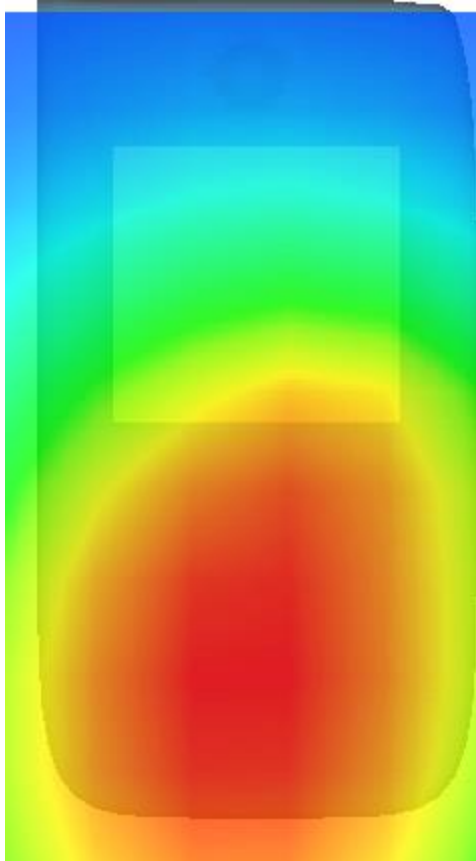
**Maximum location: X=-1.00, Y=-42.00**

**SAR Peak: 0.78 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.461361 |
| <b>SAR 1g (W/Kg)</b>  | 0.630013 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.7792</b> | <b>0.6231</b> | <b>0.4760</b> | <b>0.3714</b> | <b>0.2870</b> | <b>0.2203</b> | <b>0.1691</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 21

10M-25RB#25

Type: Phone measurement (Complete)

Date of measurement: 18/6/2017

Measurement duration: 8 minutes 13 seconds

### **A. Experimental conditions.**

|                               |  |
|-------------------------------|--|
| <b><u>Area Scan</u></b>       | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>        | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>         | <u>Left head</u>                               |
| <b><u>Device Position</u></b> | <u>Cheek</u>                                   |
| <b><u>Band</u></b>            | <u>LTE band 17</u>                             |
| <b><u>Channels</u></b>        | <u>Middle</u>                                  |
| <b><u>Signal</u></b>          | <u>Duty cycle:1:1</u>                          |

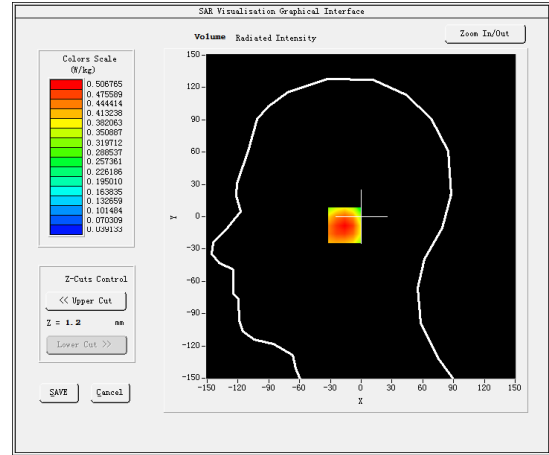
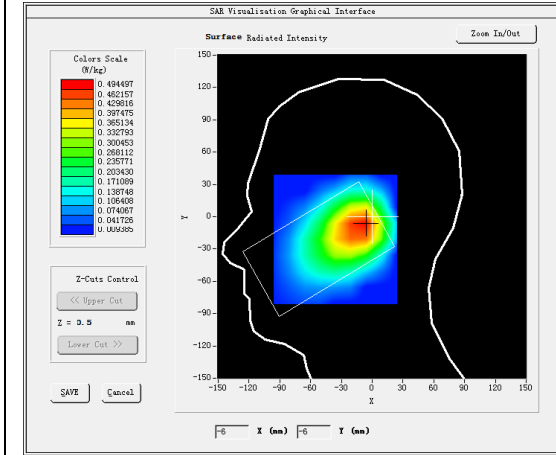
### **B. SAR Measurement Results**

Middle Band SAR (Channel 23790):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 710.000000 |
| <b>Relative permittivity (real part)</b>      | 41.719700  |
| <b>Relative permittivity (imaginary part)</b> | 23.350201  |
| <b>Conductivity (S/m)</b>                     | 0.921036   |
| <b>Variation (%)</b>                          | -0.480000  |

### SURFACE SAR

### VOLUME SAR

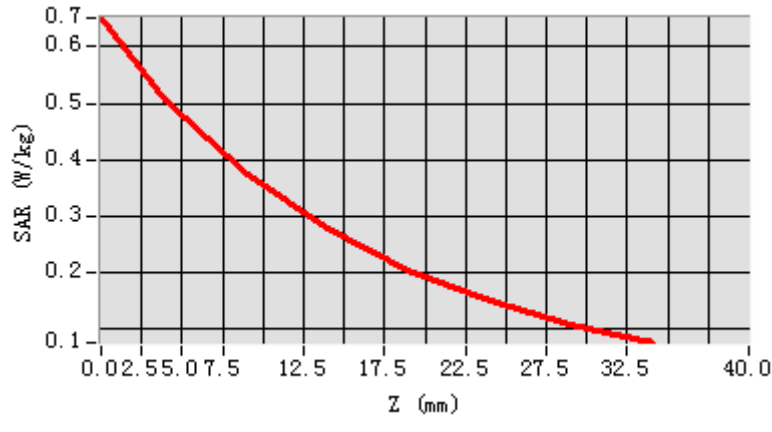


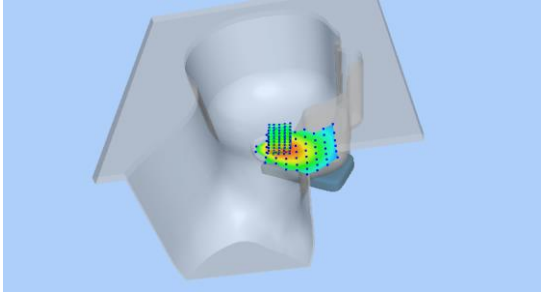
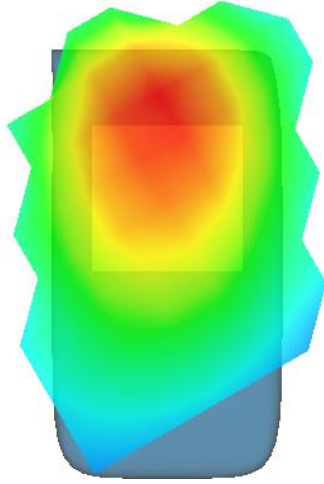
**Maximum location: X=-10.00, Y=-8.00**

**SAR Peak: 0.66 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.355144 |
| <b>SAR 1g (W/Kg)</b>  | 0.503402 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>0.6514</b> | <b>0.5068</b> | <b>0.3723</b> | <b>0.2782</b> | <b>0.2047</b> | <b>0.1498</b> | <b>0.1070</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |



## MEASUREMENT 22

Rear-side-10M-25RB#25-middle

Type: Phone measurement (Complete)

Date of measurement: 18/6/2017

Measurement duration: 9 minutes 53 seconds

### **A. Experimental conditions.**

|                               |  |
|-------------------------------|--|
| <b><u>Area Scan</u></b>       | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>        | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>         | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b> | <u>Body</u>                                    |
| <b><u>Band</u></b>            | <u>LTE band 17</u>                             |
| <b><u>Channels</u></b>        | <u>Middle</u>                                  |
| <b><u>Signal</u></b>          | <u>Duty cycle:1:1</u>                          |

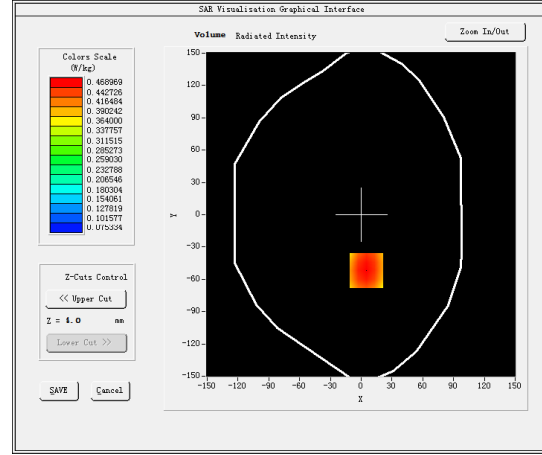
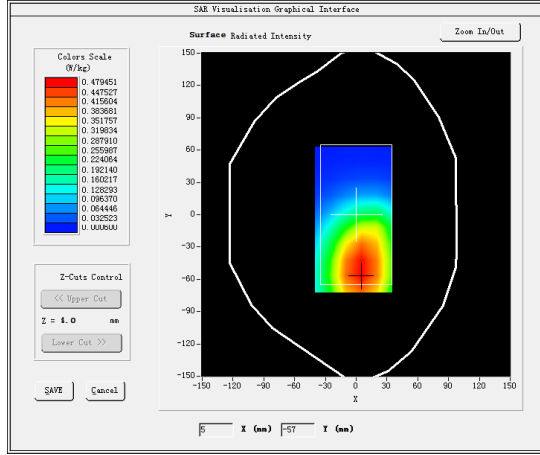
### **B. SAR Measurement Results**

Middle Band SAR (Channel 23790):

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 710.000000 |
| <b>Relative permittivity (real part)</b>      | 54.210999  |
| <b>Relative permittivity (imaginary part)</b> | 25.504601  |
| <b>Conductivity (S/m)</b>                     | 1.006015   |
| <b>Variation (%)</b>                          | -1.590000  |

### SURFACE SAR

### VOLUME SAR

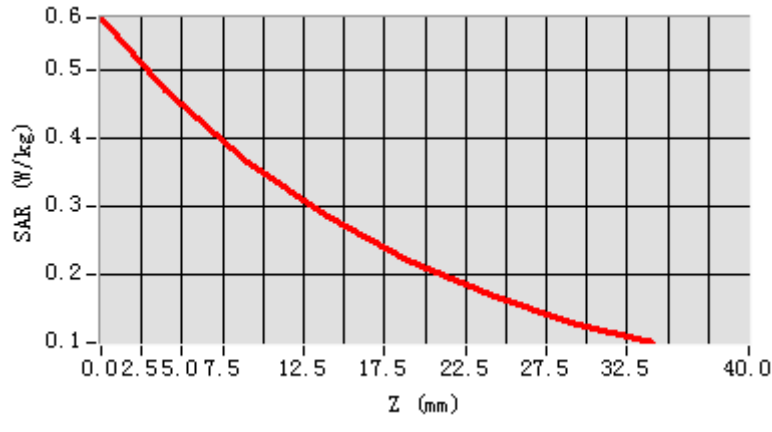


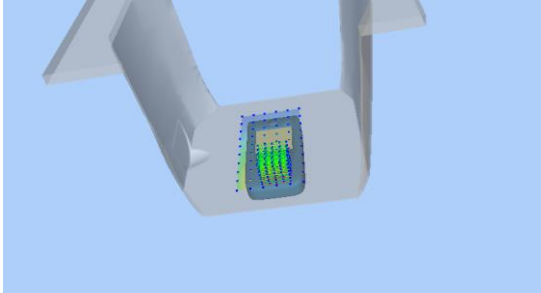
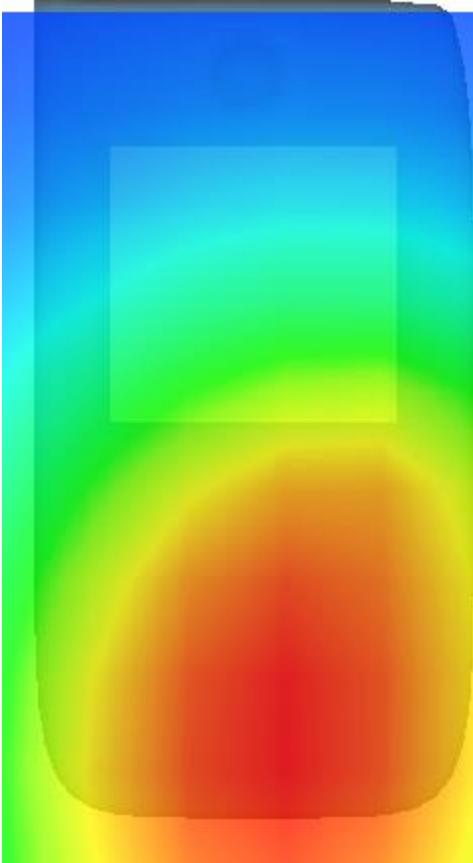
**Maximum location: X=5.00, Y=-52.00**

**SAR Peak: 0.57 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.350770 |
| <b>SAR 1g (W/Kg)</b>  | 0.474268 |

| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.5746 | 0.4690 | 0.3643 | 0.2854 | 0.2209 | 0.1706 | 0.1313 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 23

Type: Phone measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 12 minutes 32 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Left head</u>                               |
| <b><u>Device Position</u></b>   | <u>Cheek</u>                                   |
| <b><u>Band</u></b>              | <u>IEEE 802.11b ISM</u>                        |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.11</u>                                    |

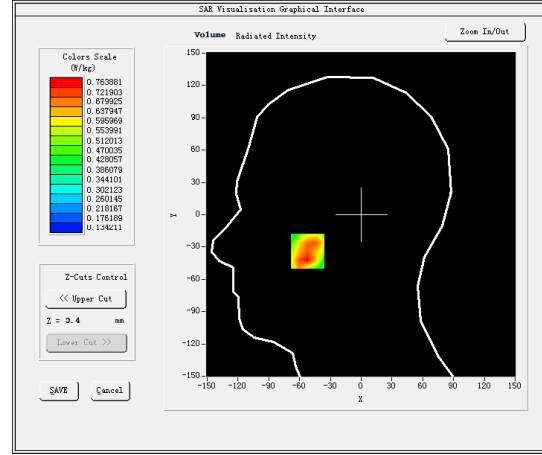
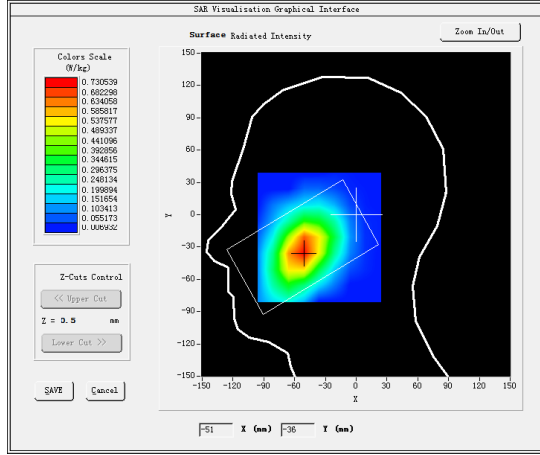
### **B. SAR Measurement Results**

Middle Band SAR (Channel 6):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 2437.000000 |
| <b>Relative permittivity (real part)</b>      | 38.568100   |
| <b>Relative permittivity (imaginary part)</b> | 13.379800   |
| <b>Conductivity (S/m)</b>                     | 1.815193    |
| <b>Variation (%)</b>                          | 0.250000    |

### SURFACE SAR

### VOLUME SAR

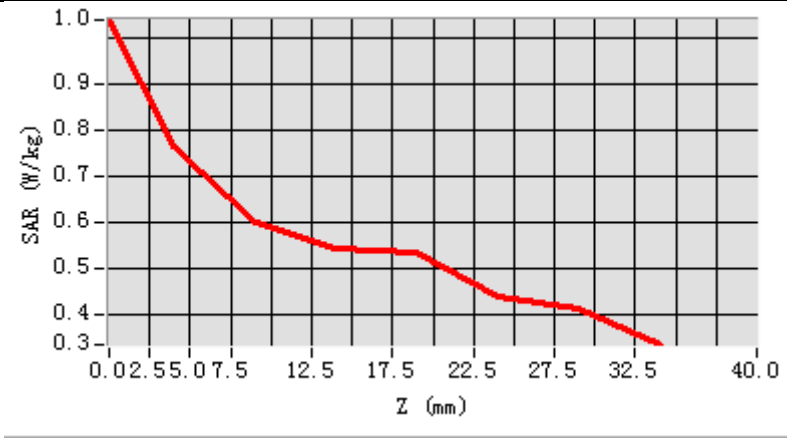


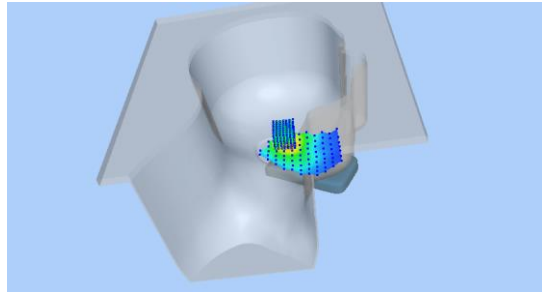
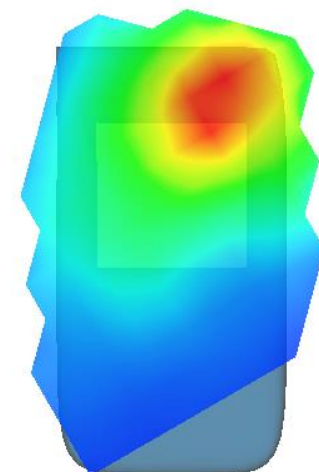
**Maximum location: X=-52.00, Y=-34.00**

**SAR Peak: 0.96 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.542057 |
| <b>SAR 1g (W/Kg)</b>  | 0.740863 |

|                   |               |               |               |               |               |               |               |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Z (mm)</b>     | <b>0.00</b>   | <b>4.00</b>   | <b>9.00</b>   | <b>14.00</b>  | <b>19.00</b>  | <b>24.00</b>  | <b>29.00</b>  |
| <b>SAR (W/Kg)</b> | <b>1.0396</b> | <b>0.7639</b> | <b>0.5978</b> | <b>0.5399</b> | <b>0.5316</b> | <b>0.4352</b> | <b>0.4111</b> |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |

## MEASUREMENT 24

Rear-side-middle

Type: Phone measurement (Complete)

Date of measurement: 17/6/2017

Measurement duration: 12 minutes 40 seconds

### **A. Experimental conditions.**

|                                 |  |
|---------------------------------|--|
| <b><u>Area Scan</u></b>         | <u>dx=15mm dy=15mm</u>                         |
| <b><u>ZoomScan</u></b>          | <u>5x5x7,dx=8mm dy=8mm<br/>dz=5mm,Complete</u> |
| <b><u>Phantom</u></b>           | <u>Validation plane</u>                        |
| <b><u>Device Position</u></b>   | <u>Body</u>                                    |
| <b><u>Band</u></b>              | <u>IEEE 802.11b ISM</u>                        |
| <b><u>Channels</u></b>          | <u>Middle</u>                                  |
| <b><u>Signal</u></b>            | <u>Duty cycle:1:1</u>                          |
| <b><u>Conversion factor</u></b> | <u>4.0</u>                                     |

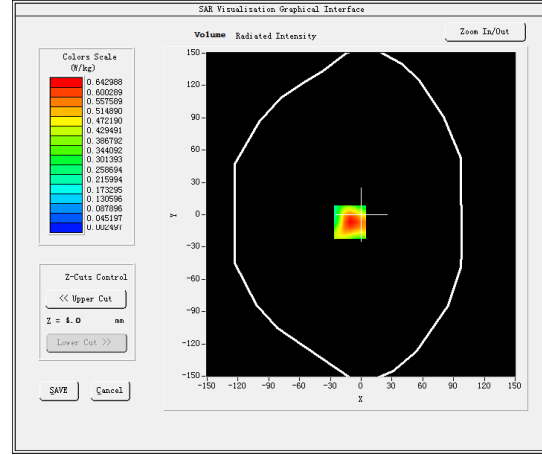
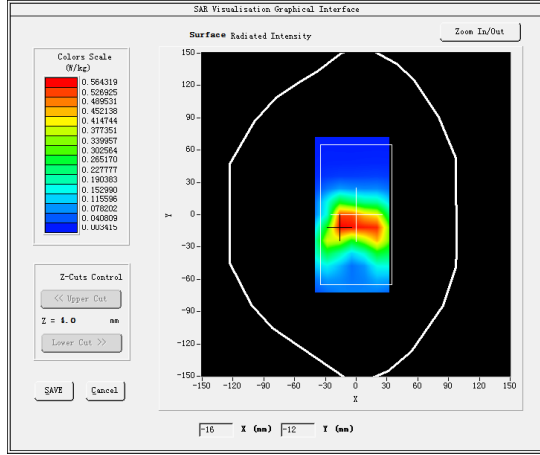
### **B. SAR Measurement Results**

Middle Band SAR (Channel 7):

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 2442.000000 |
| <b>Relative permittivity (real part)</b>      | 52.756401   |
| <b>Relative permittivity (imaginary part)</b> | 14.076200   |
| <b>Conductivity (S/m)</b>                     | 1.909671    |
| <b>Variation (%)</b>                          | 1.830000    |

### SURFACE SAR

### VOLUME SAR



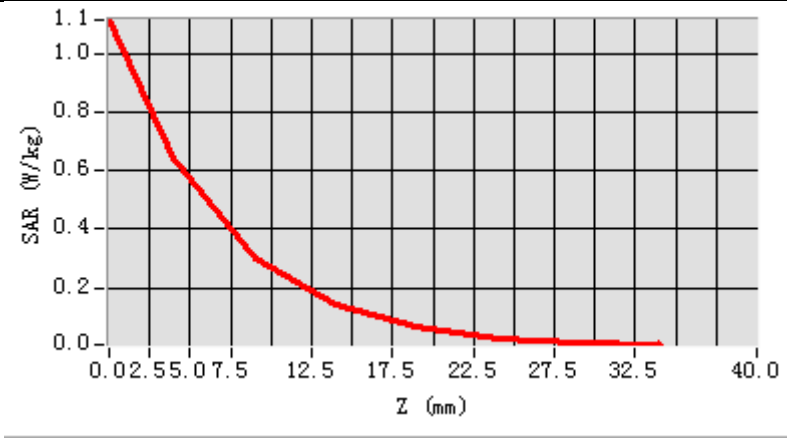
**Maximum location: X=-11.00, Y=-7.00**

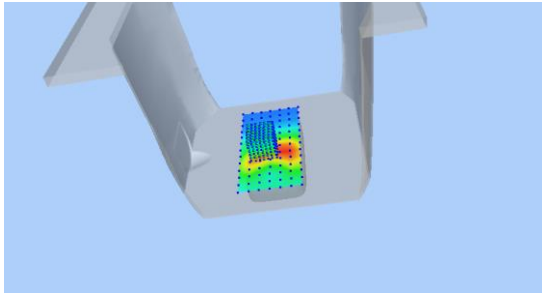
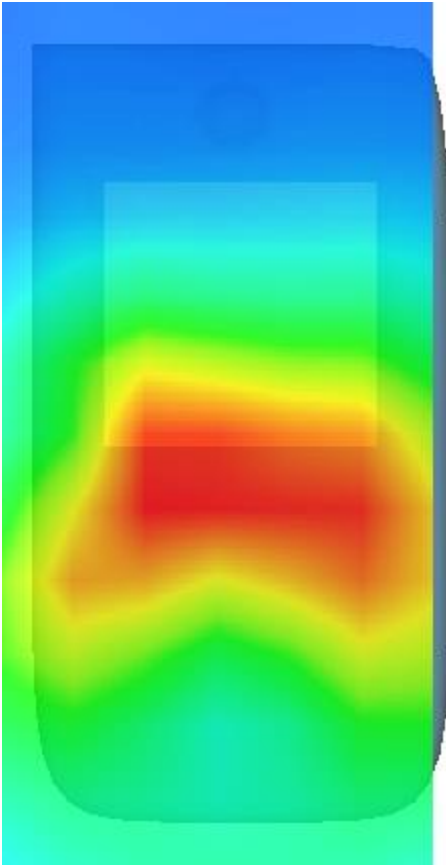
**SAR Peak: 1.10 W/kg**

|                       |          |
|-----------------------|----------|
| <b>SAR 10g (W/Kg)</b> | 0.305689 |
| <b>SAR 1g (W/Kg)</b>  | 0.507865 |



| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 1.1135 | 0.6430 | 0.3000 | 0.1401 | 0.0645 | 0.0298 | 0.0138 |



| 3D screen shot  | Hot spot position  |
|---|--|
|  |  |