

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test Laboratory: AGC Lab

Date: Jan. 03, 2024

WCDMA Band V Mid-Touch-Right (RMC )

DUT: Smartphone; Type: VORTEX HD68

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.94\text{ mho/m}$ ;  $\epsilon_r = 40.67$ ;  $\rho = 1000\text{ kg/m}^3$  ; Phantom section: Right Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.8

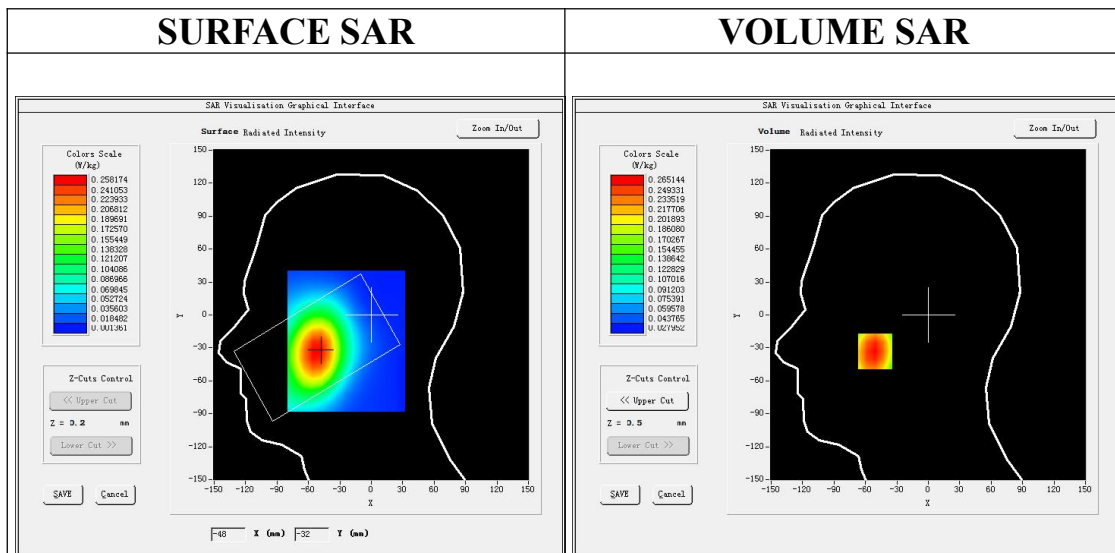
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

Configuration/ WCDMA Band V Mid-Touch-Right/Zoom Scan: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

<b>Area Scan</b>	$dx=8\text{mm}$ $dy=8\text{mm}$ , $h= 5.00\text{ mm}$
<b>ZoomScan</b>	$5x5x7$ , $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$ ,Complete
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	WCDMA Band V
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



**Maximum location: X=-51.00, Y=-33.00**

**SAR Peak: 0.33 W/kg**

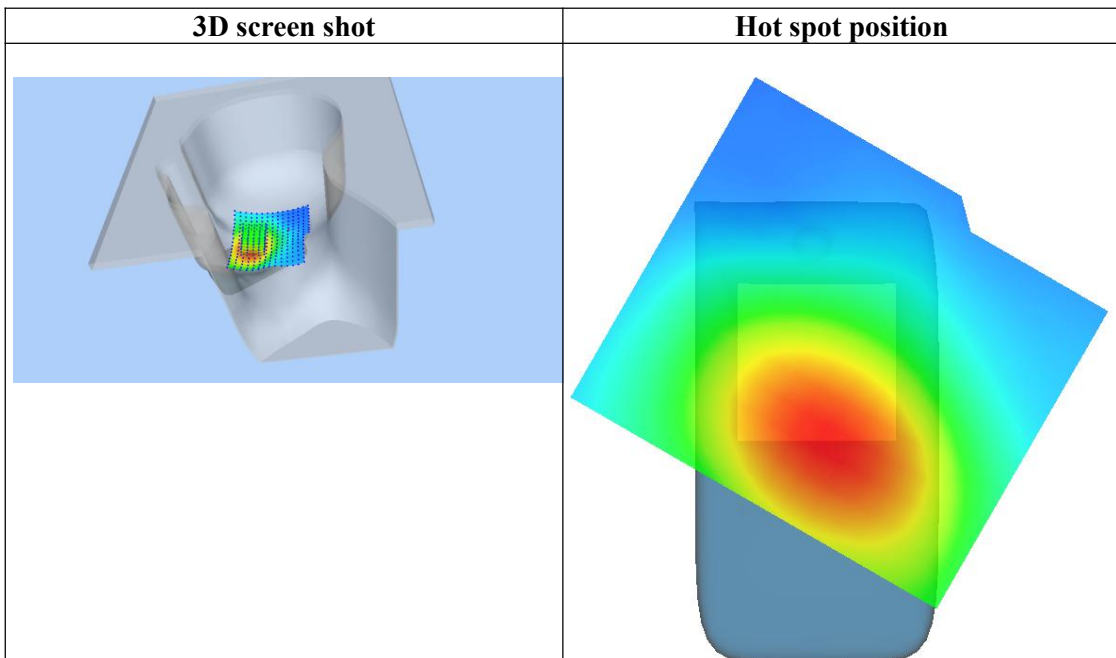
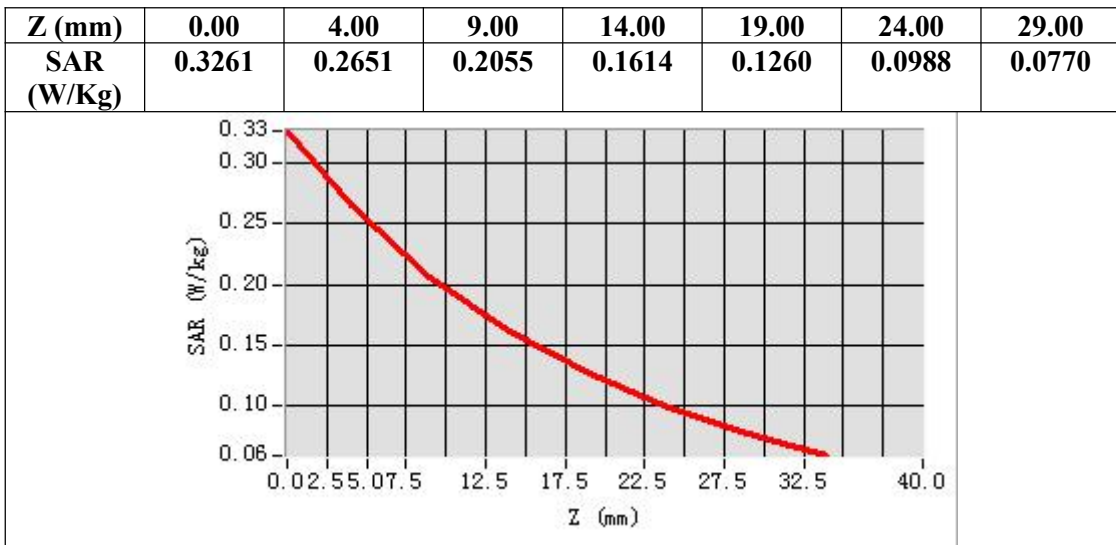
<b>SAR 10g (W/Kg)</b>	0.187303
<b>SAR 1g (W/Kg)</b>	0.256283

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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Test Laboratory: AGC Lab

Date: Jan. 03, 2024

WCDMA Band V Mid-Body-Towards Grounds (RMC)

DUT: Smartphone; Type: VORTEX HD68

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 40.67$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.8

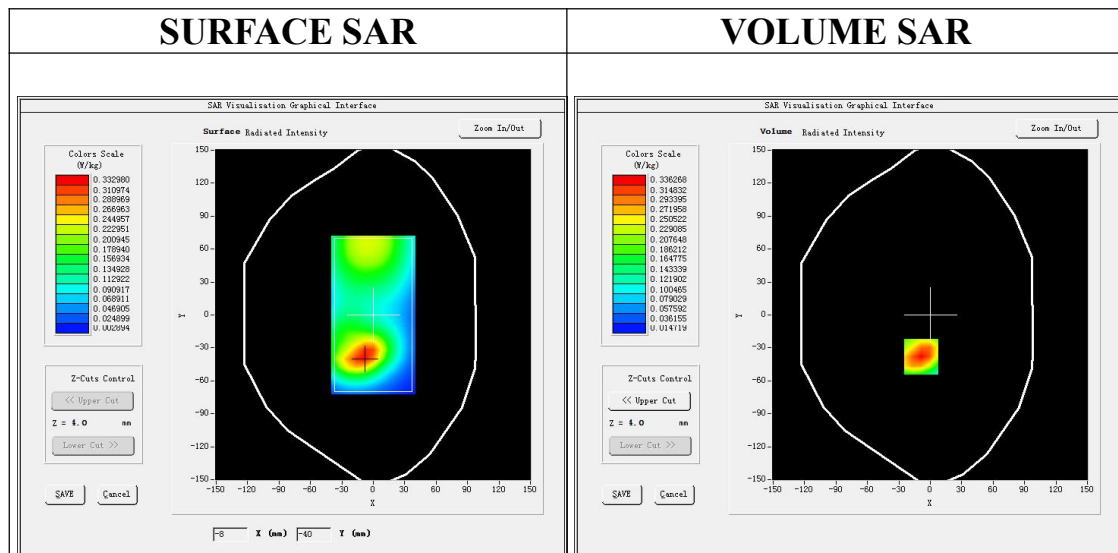
SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/ WCDMA Band V Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-9.00, Y=-38.00

SAR Peak: 0.51 W/kg

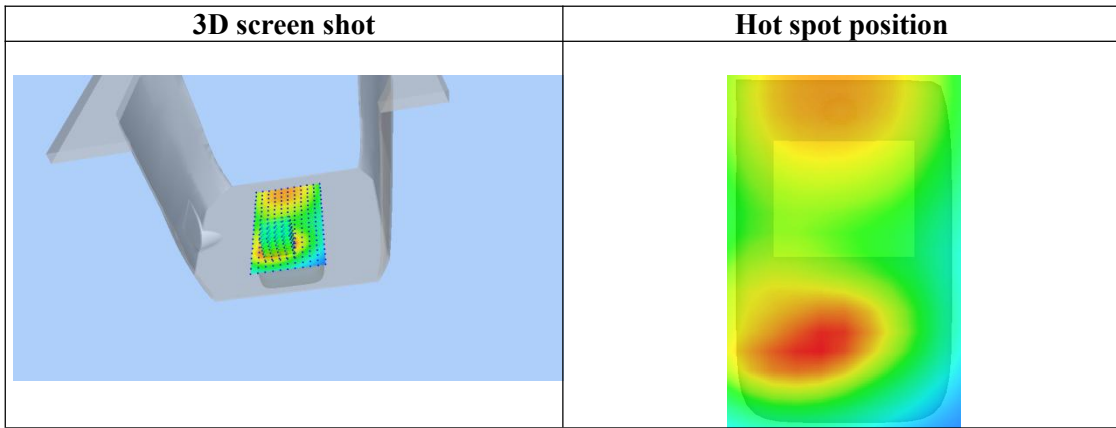
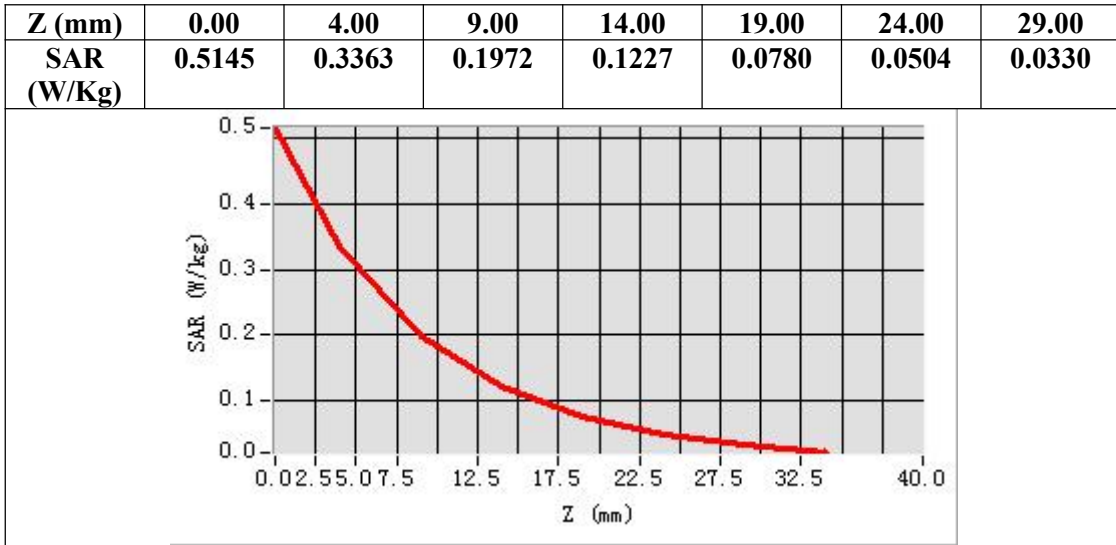
SAR 10g (W/Kg)	0.184641
SAR 1g (W/Kg)	0.320187

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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 08, 2024**

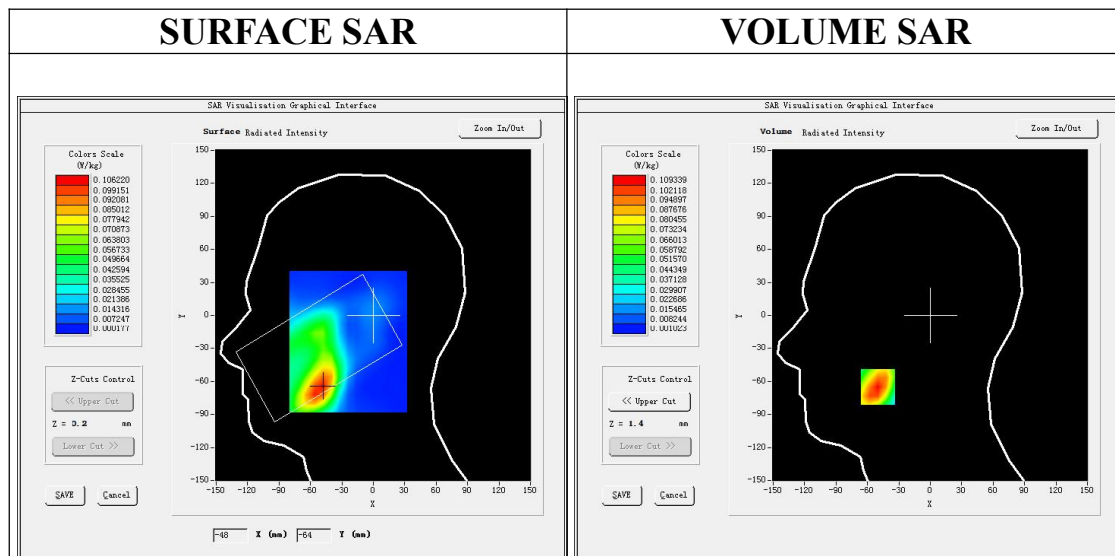
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1880MHz; Medium parameters used:  $f=1900$  MHz;  $\sigma=1.31$  mho/m;  $\epsilon_r=40.69$ ;  $\rho=1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

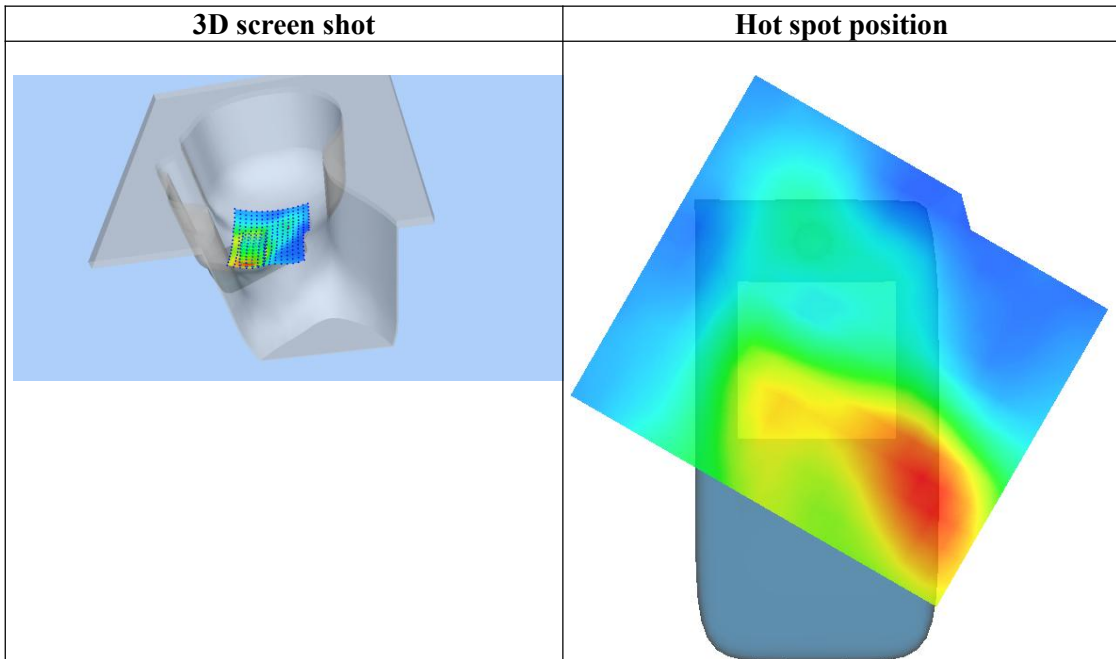
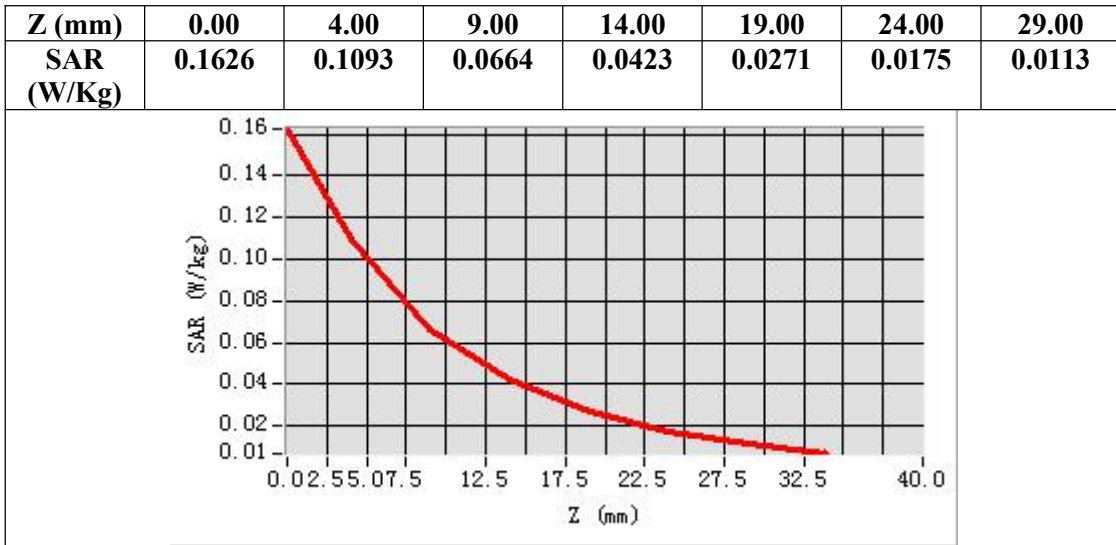
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-50.00, Y=-65.00**  
**SAR Peak: 0.16 W/kg**

<b>SAR 10g (W/Kg)</b>	0.059407
<b>SAR 1g (W/Kg)</b>	0.104477

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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 08, 2024**

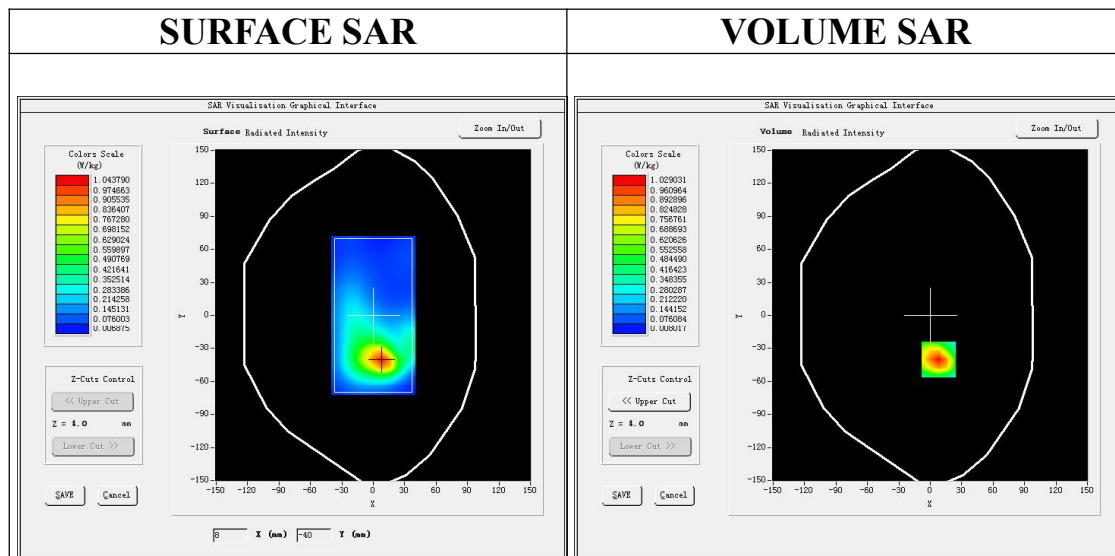
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1880MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 40.69$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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



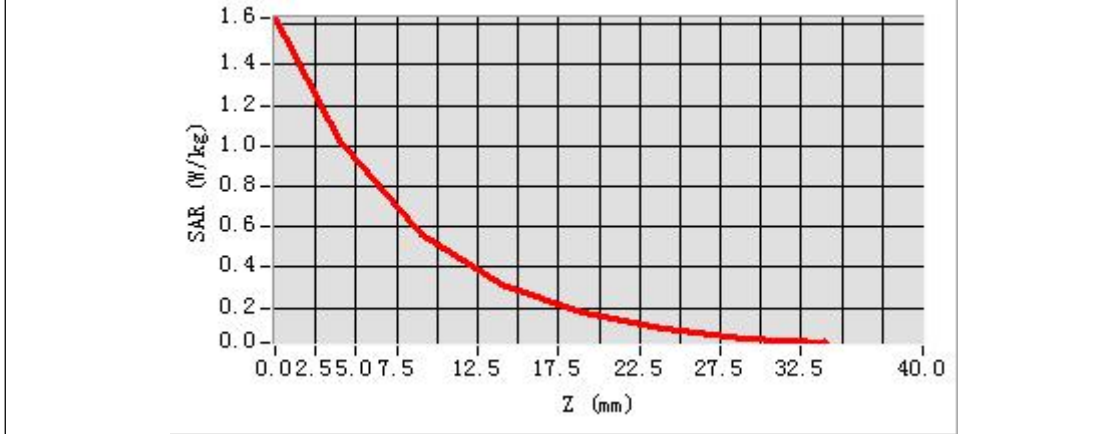
**Maximum location: X=8.00, Y=-40.00**  
**SAR Peak: 1.64 W/kg**

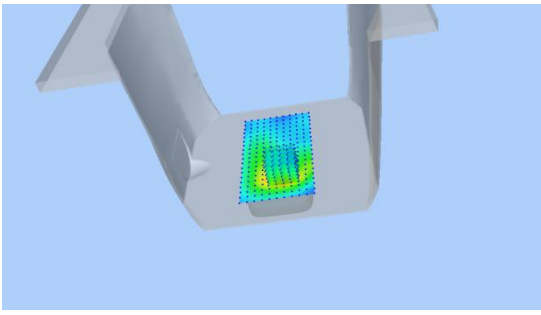
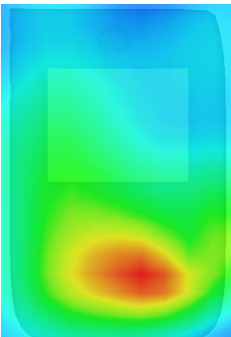
<b>SAR 10g (W/Kg)</b>	0.501550
<b>SAR 1g (W/Kg)</b>	0.969256

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6322	1.0290	0.5599	0.3182	0.1749	0.0957	0.0532



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 07, 2024**

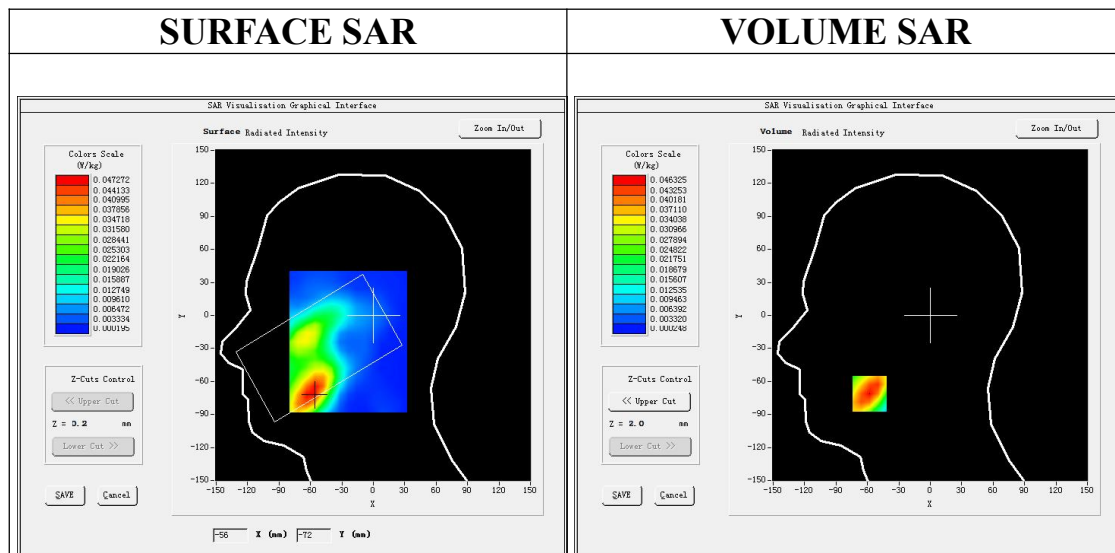
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz;  $\sigma$ = 1.28 mho/m;  $\epsilon_r$  =41.39;  $\rho$ = 1000 kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 4 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

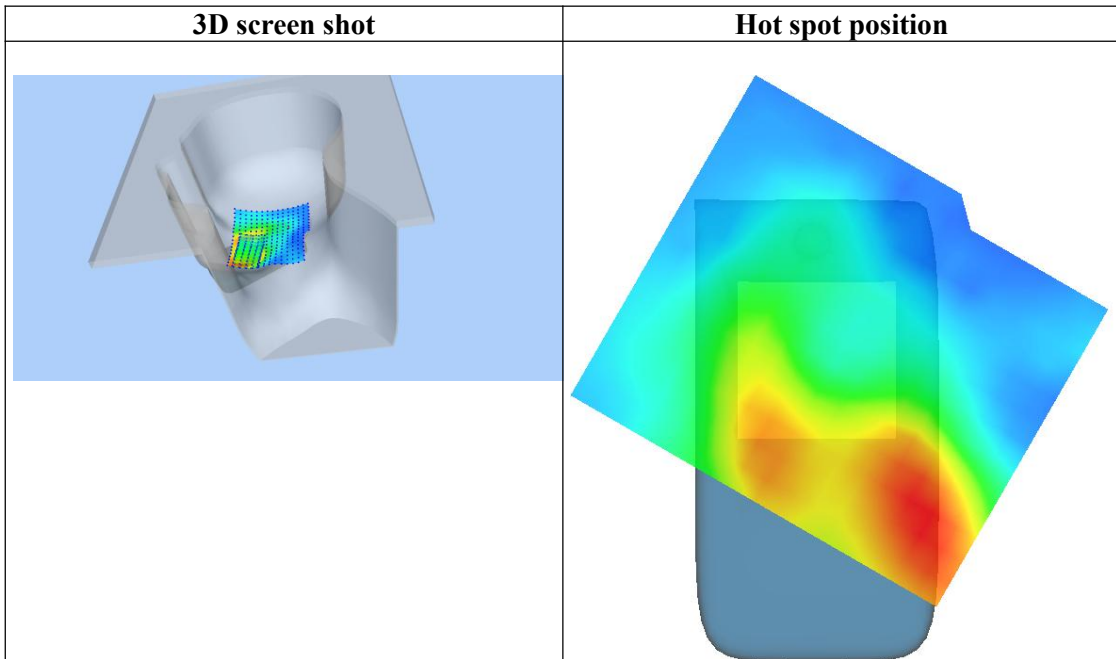
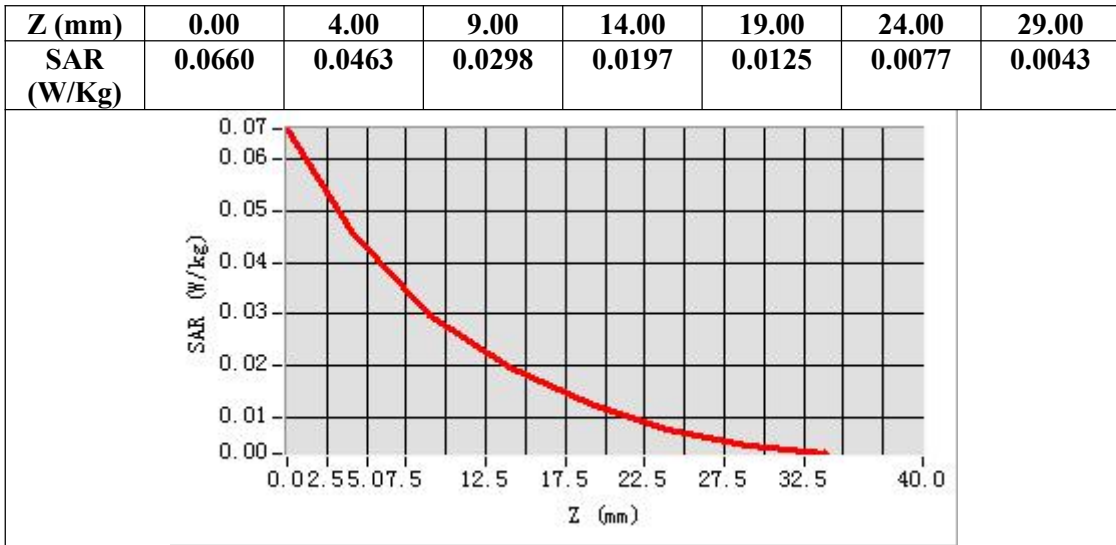
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 4
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-58.00, Y=-71.00**  
**SAR Peak: 0.07 W/kg**

<b>SAR 10g (W/Kg)</b>	0.026279
<b>SAR 1g (W/Kg)</b>	0.044036

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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 07, 2024**

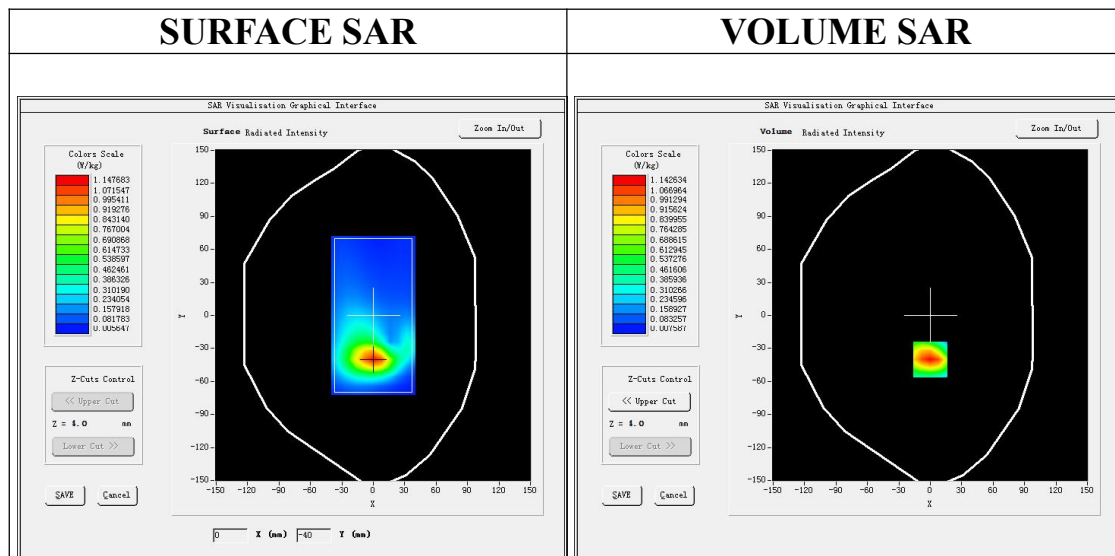
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1732.5 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 41.39$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 4 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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

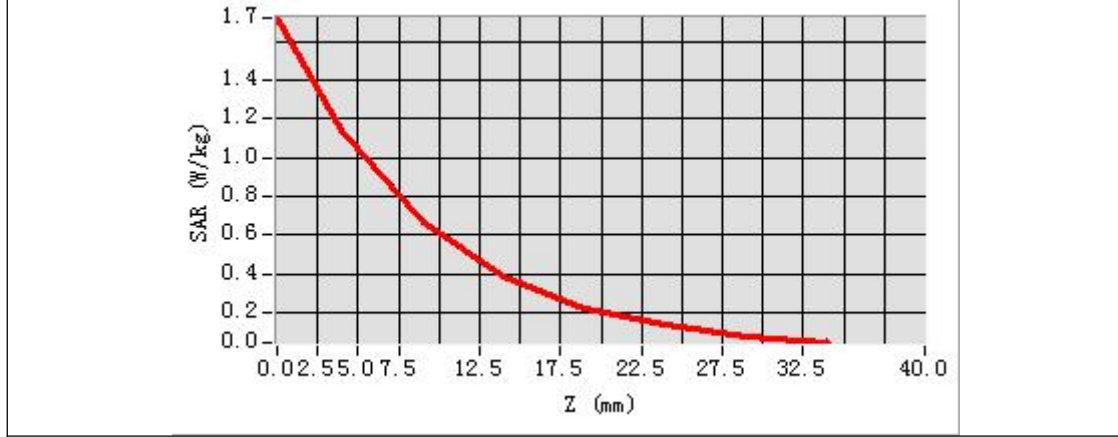


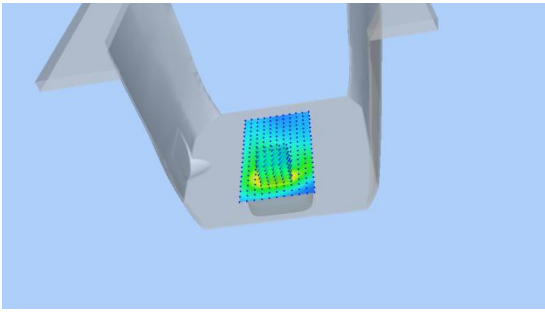
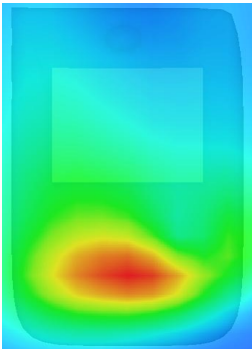
**Maximum location: X=0.00, Y=-40.00**  
**SAR Peak: 1.75 W/kg**

<b>SAR 10g (W/Kg)</b>	0.5362633
<b>SAR 1g (W/Kg)</b>	0.9863121

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.7196	1.1426	0.6685	0.3844	0.2238	0.1346	0.0774



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**LTE Band 5 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 03, 2024**

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02  
Frequency: 836.5 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

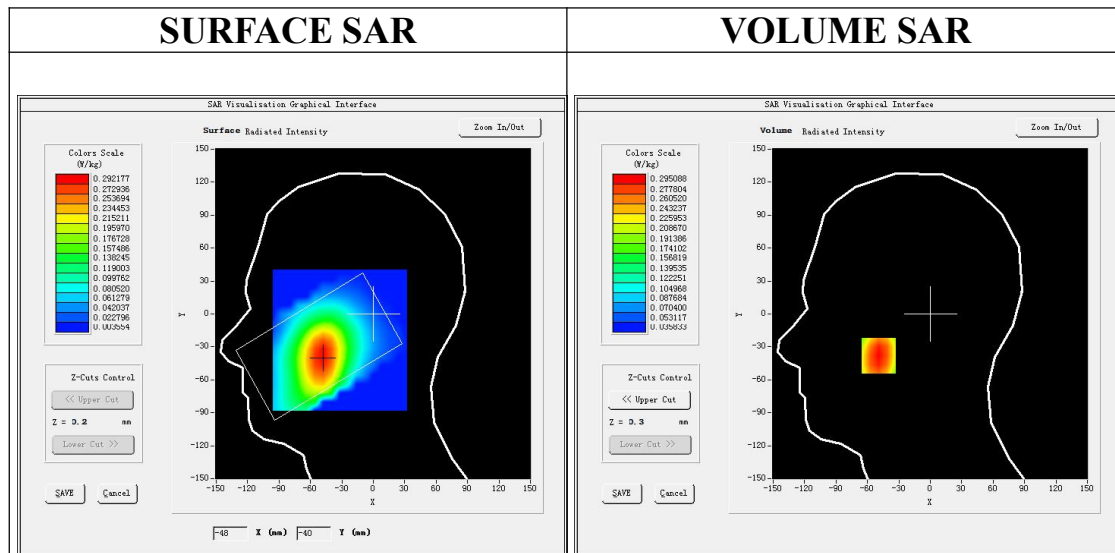
**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 5 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 5 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

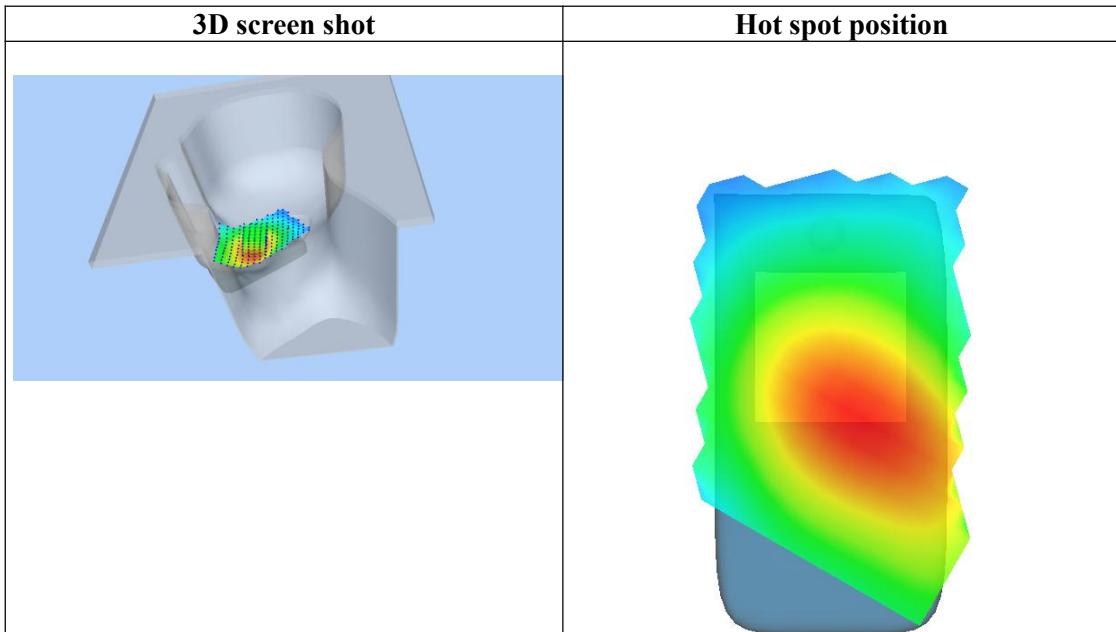
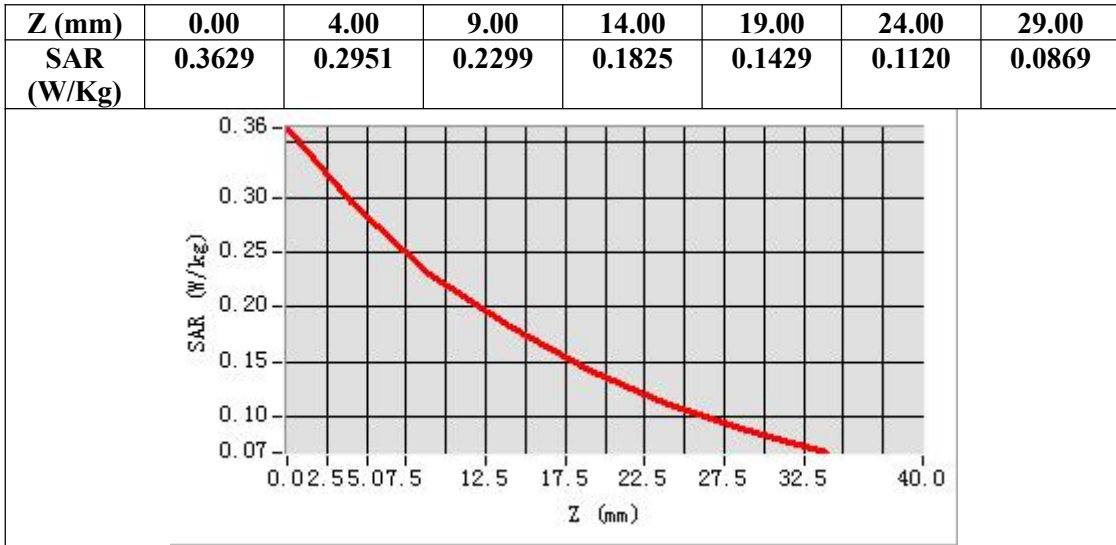
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 5
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-38.00**  
**SAR Peak: 0.36 W/kg**

<b>SAR 10g (W/Kg)</b>	0.209051
<b>SAR 1g (W/Kg)</b>	0.285024

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**Test Laboratory: AGC Lab**  
**LTE Band 5 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 03, 2024**

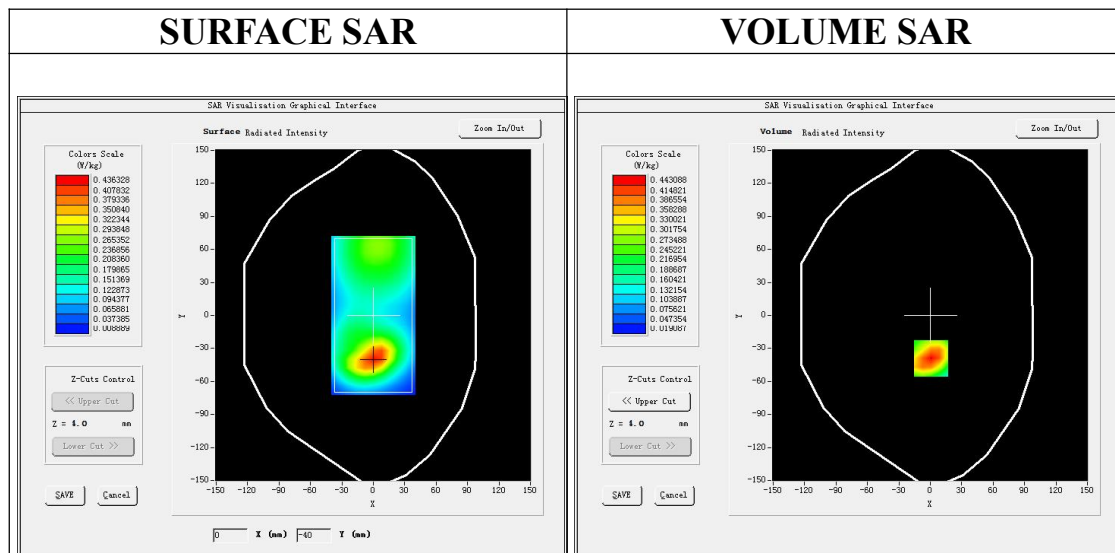
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02  
Frequency:836.5 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 5 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 5 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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



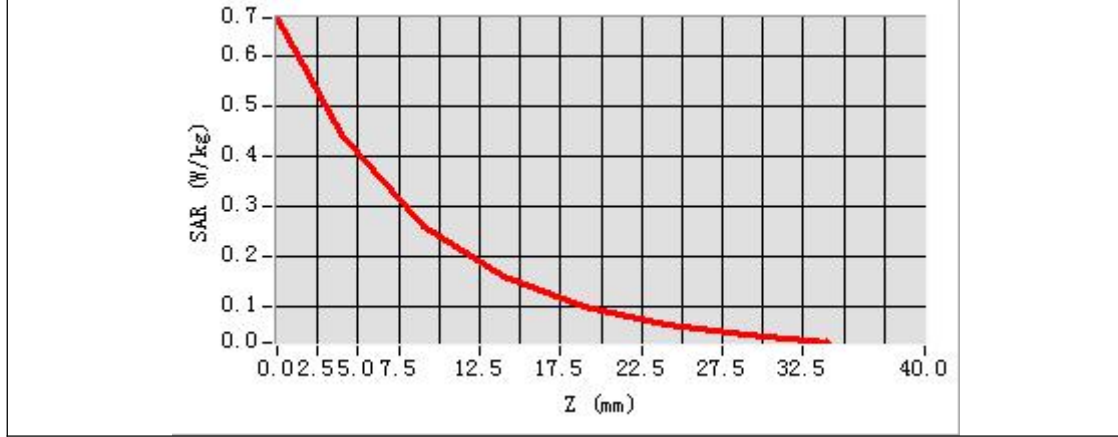
**Maximum location: X=1.00, Y=-39.00**  
**SAR Peak: 0.67 W/kg**

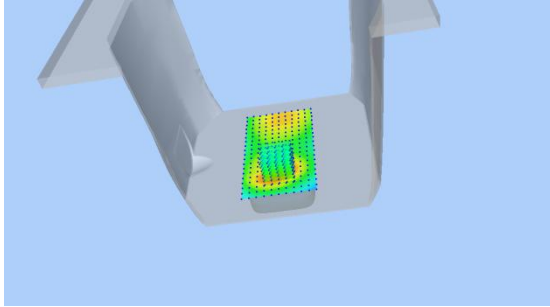
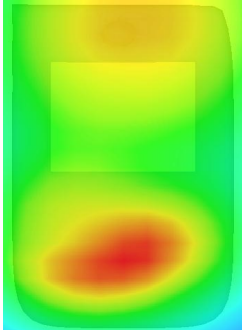
<b>SAR 10g (W/Kg)</b>	0.240857
<b>SAR 1g (W/Kg)</b>	0.421796

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6765	0.4431	0.2598	0.1595	0.1008	0.0652	0.0426



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**LTE Band 12 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 04, 2024**

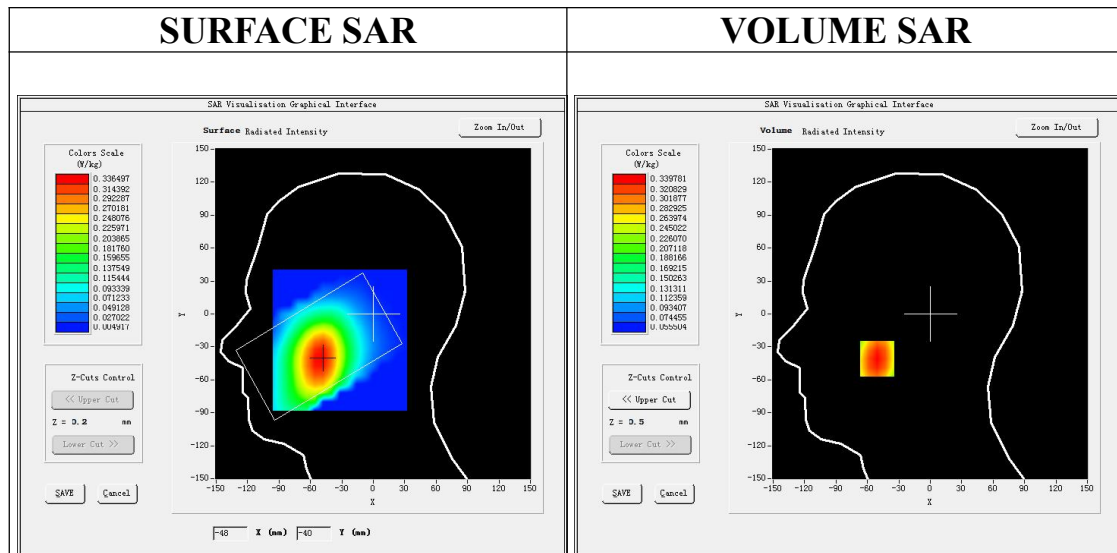
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95  
Frequency: 707.5 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 12 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 12 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

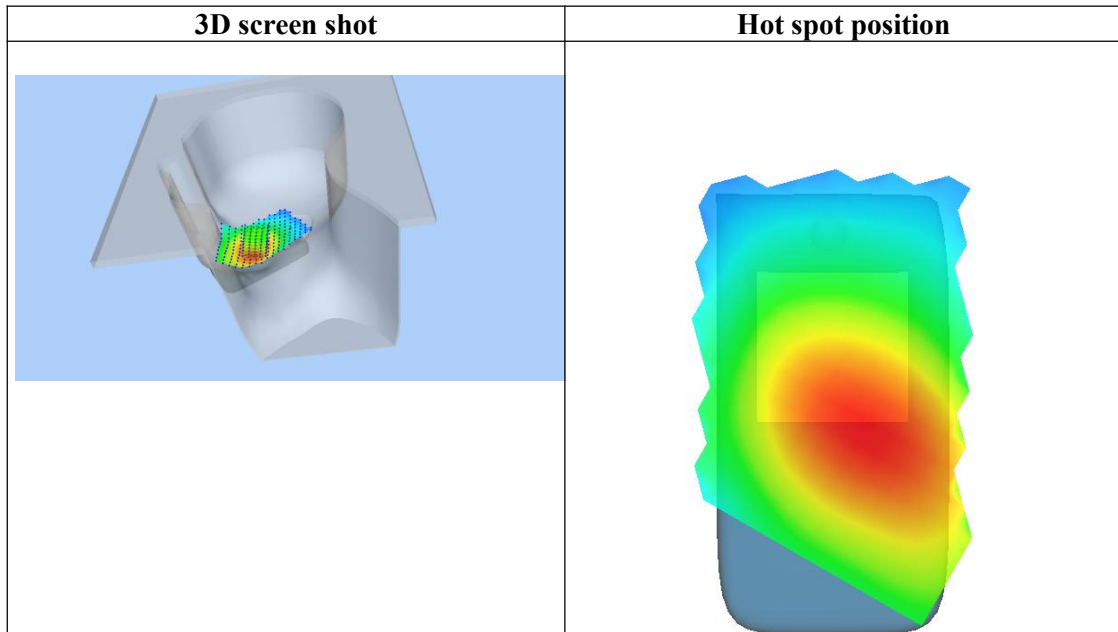
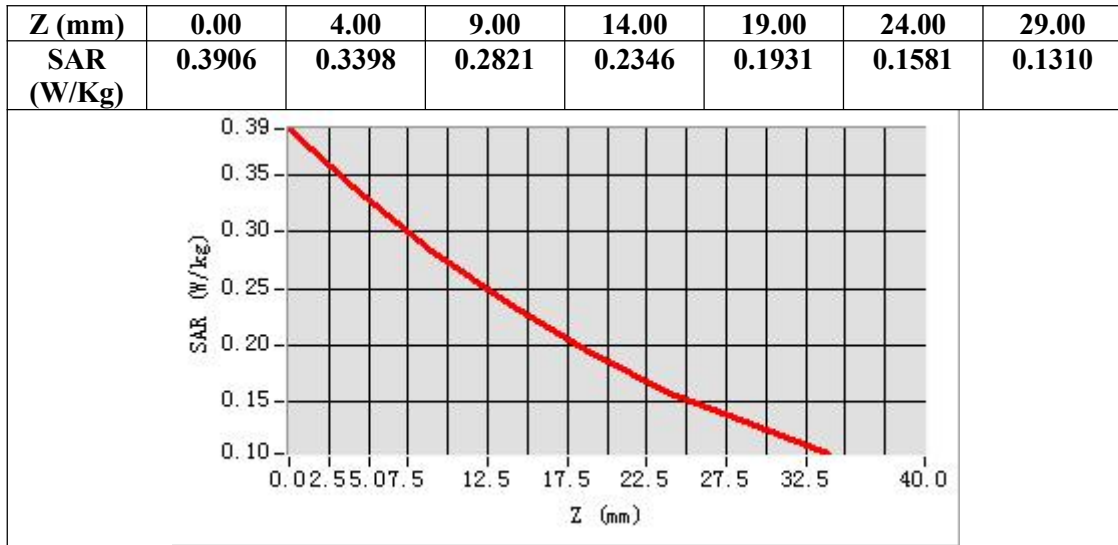
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 12
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-51.00, Y=-41.00**  
**SAR Peak: 0.40 W/kg**

<b>SAR 10g (W/Kg)</b>	0.260786
<b>SAR 1g (W/Kg)</b>	0.335782

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**Test Laboratory: AGC Lab**  
**LTE Band 12 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 04, 2024**

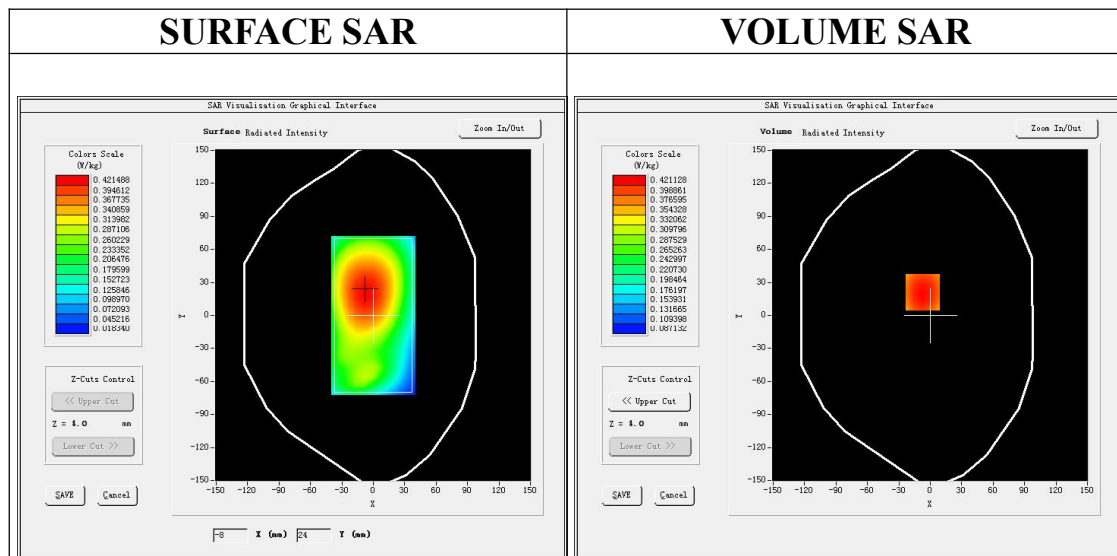
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 707.5 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma = 0.85$  mho/m;  $\epsilon_r = 44.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 12 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 12 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

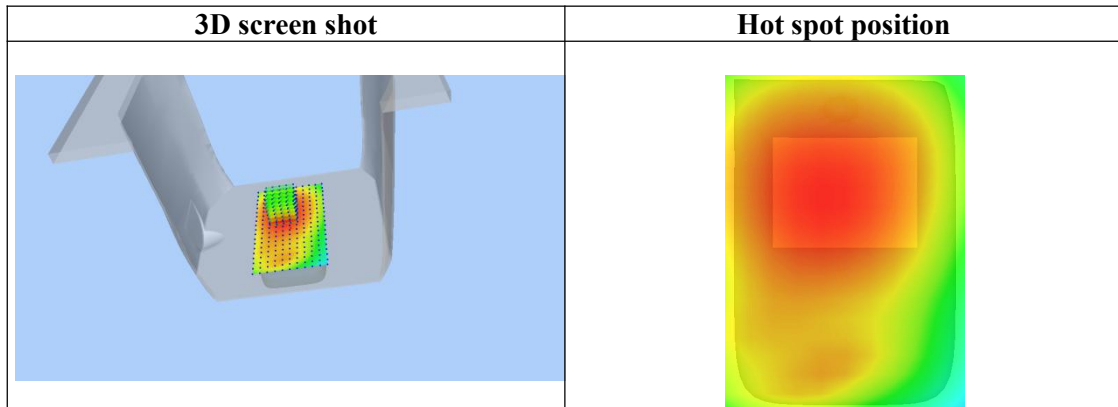
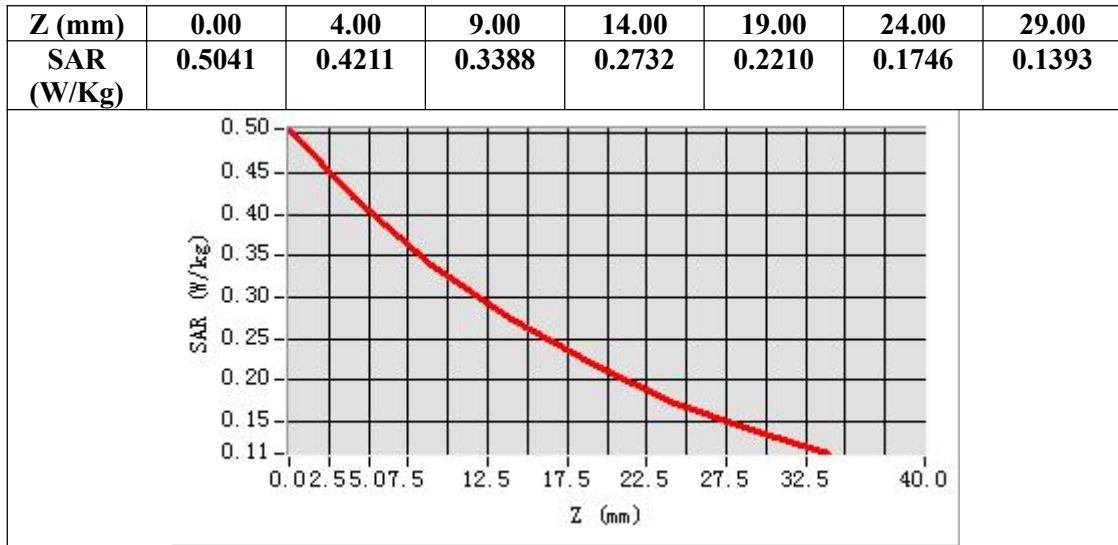
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 12
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-7.00, Y=21.00**  
**SAR Peak: 0.50 W/kg**

<b>SAR 10g (W/Kg)</b>	0.323685
<b>SAR 1g (W/Kg)</b>	0.419378

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**Test Laboratory: AGC Lab**  
**LTE Band 13 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 04, 2024**

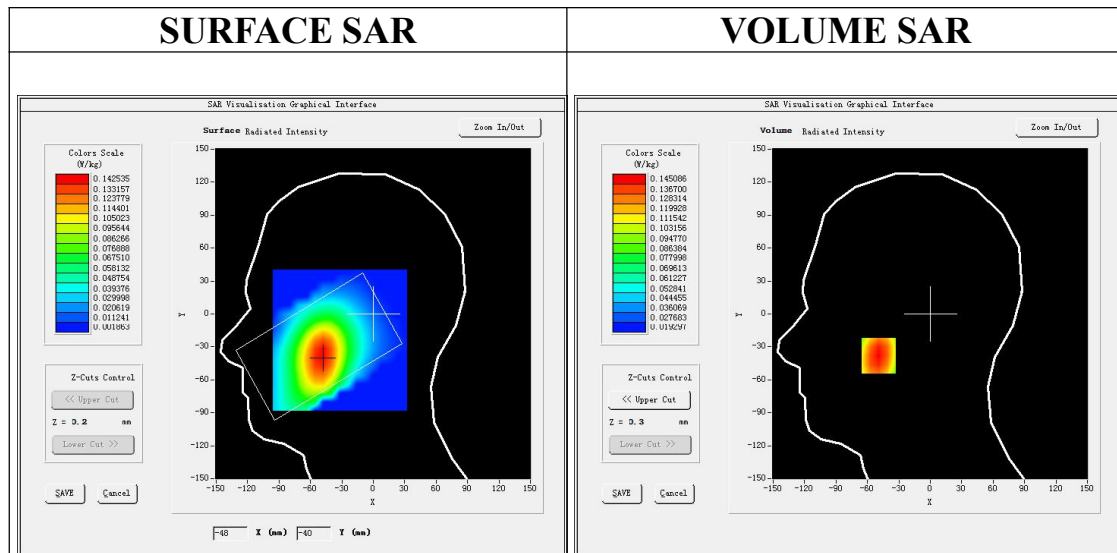
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95  
Frequency: 782 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.91$  mho/m;  $\epsilon_r = 41.63$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 13 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 13 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

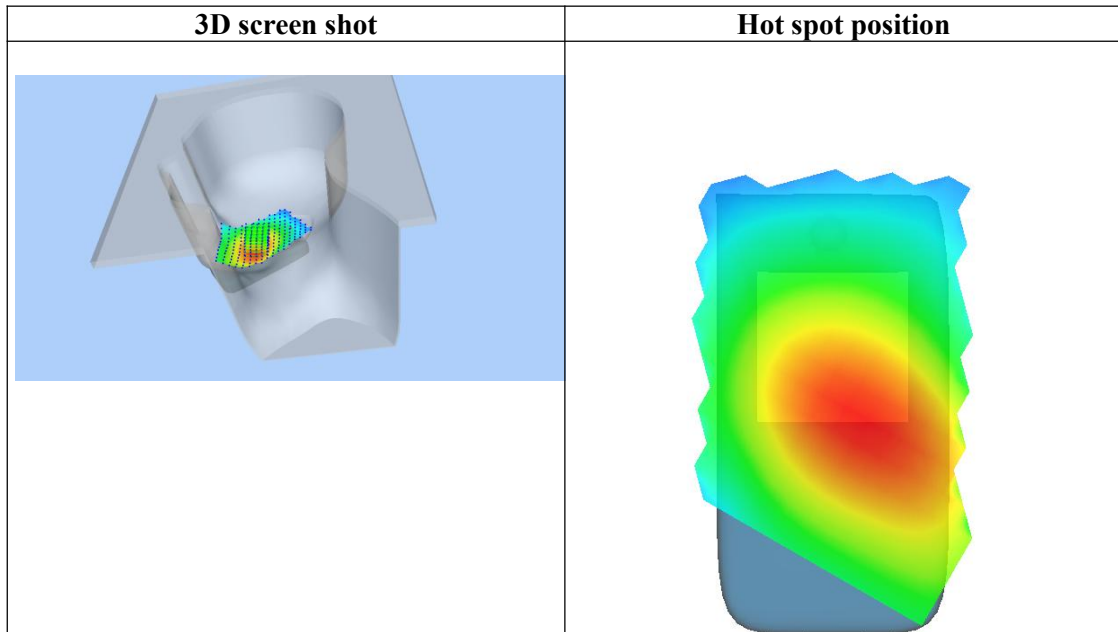
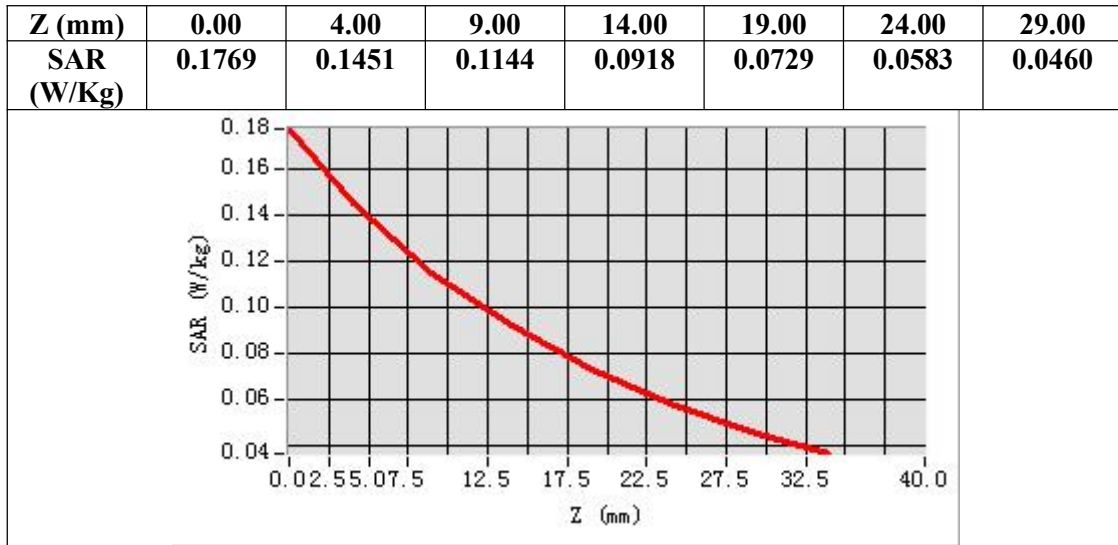
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 13
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-38.00**  
**SAR Peak: 0.18 W/kg**

<b>SAR 10g (W/Kg)</b>	0.104268
<b>SAR 1g (W/Kg)</b>	0.140282

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**Test Laboratory: AGC Lab**  
**LTE Band 13 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 04, 2024**

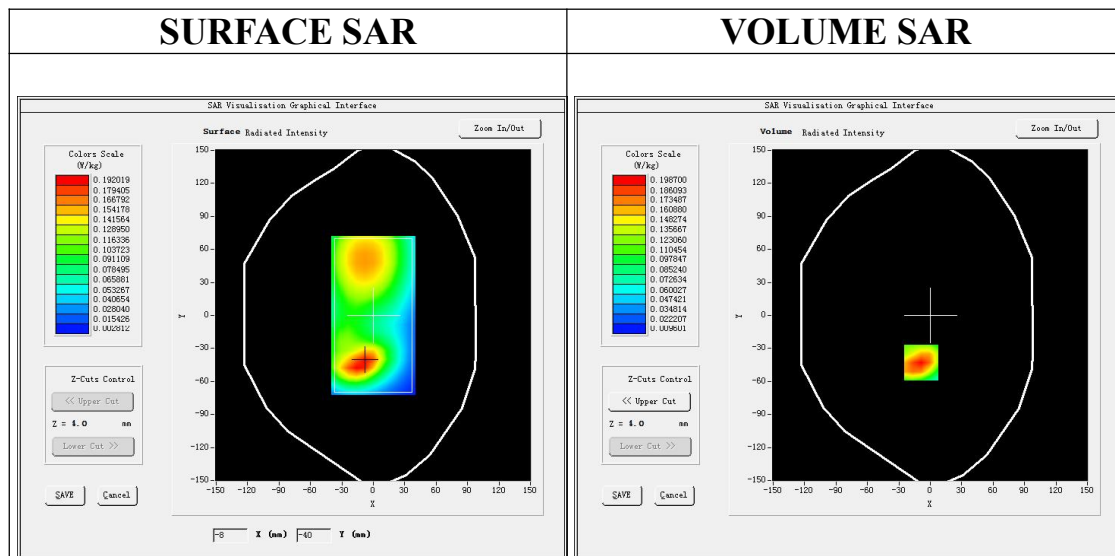
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 782 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.91$  mho/m;  $\epsilon_r = 41.63$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 13 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 13 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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

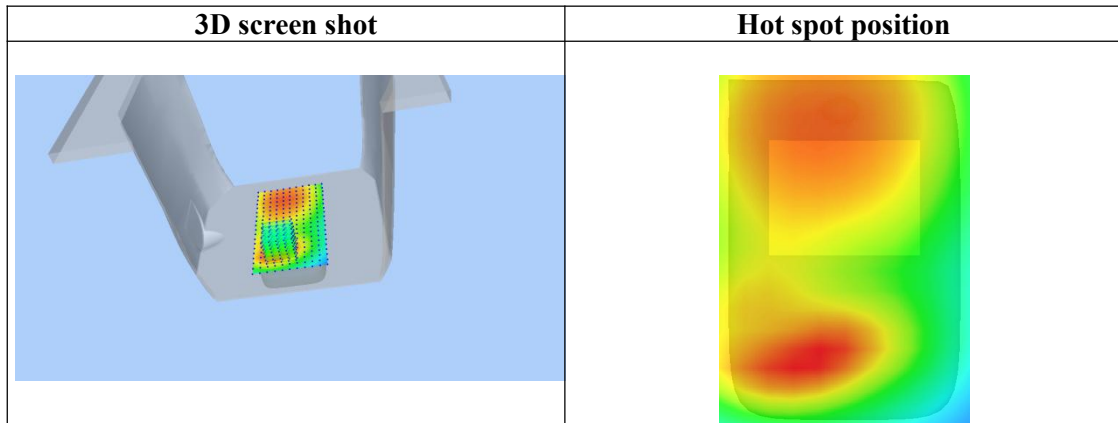
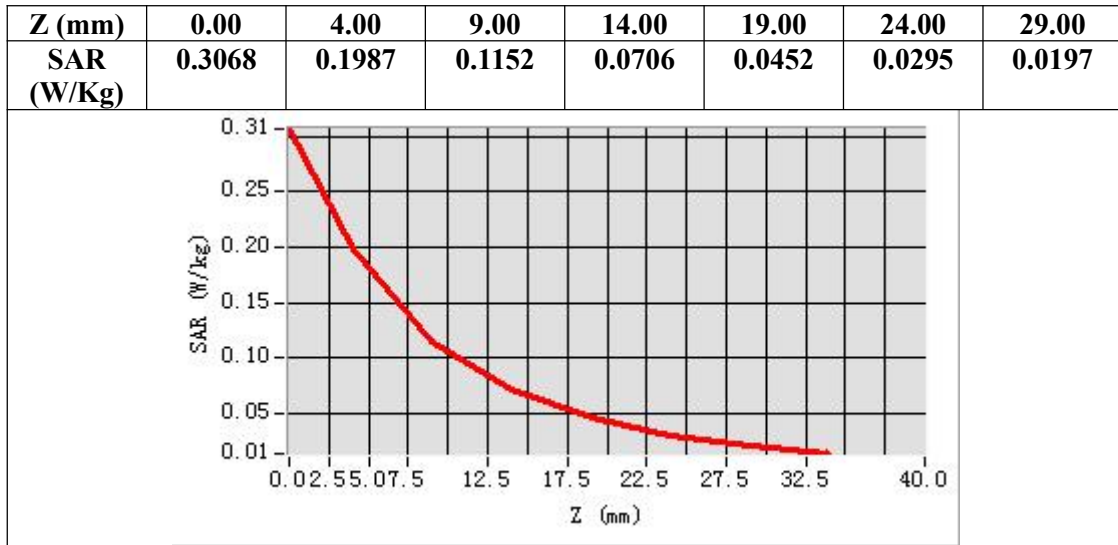


**Maximum location: X=-9.00, Y=-43.00**  
**SAR Peak: 0.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.107850
<b>SAR 1g (W/Kg)</b>	0.189534

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**Test Laboratory: AGC Lab**  
**LTE Band 17 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 04, 2024**

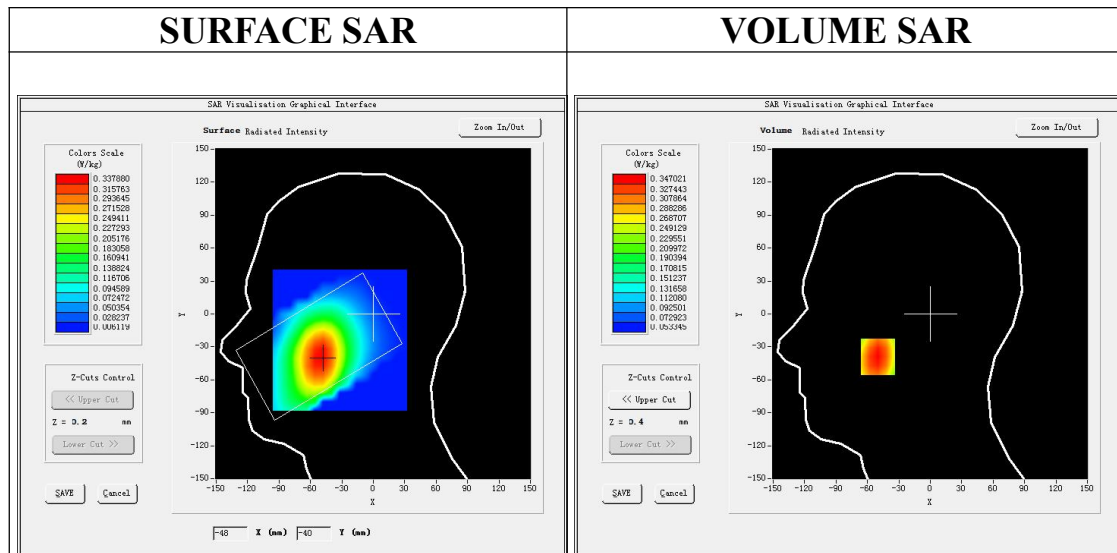
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=1.95  
Frequency: 710 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.88$  mho/m;  $\epsilon_r = 43.22$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 17 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 17 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 17
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

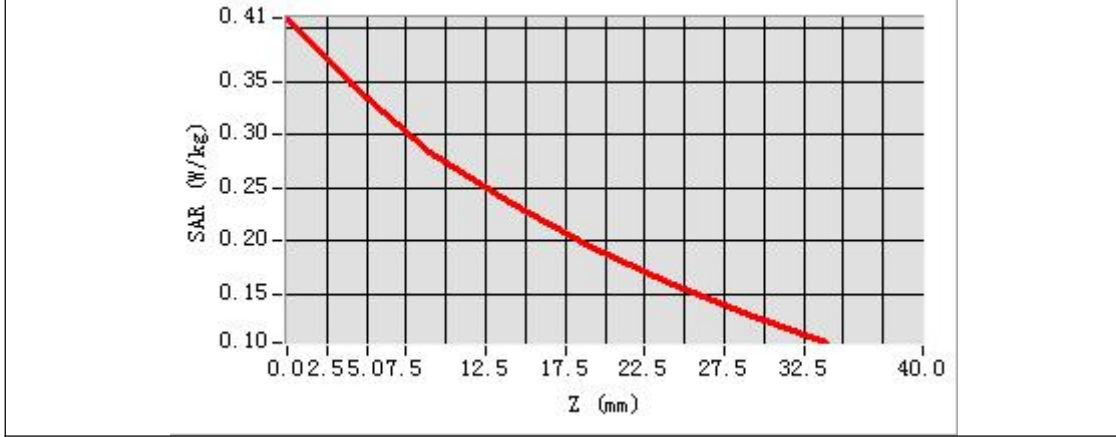


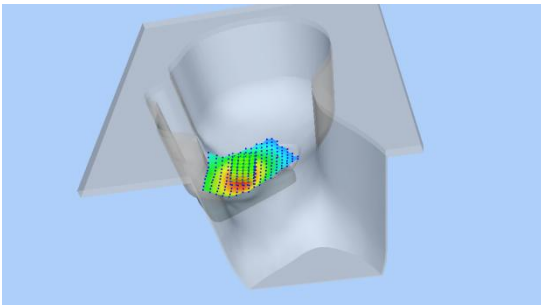
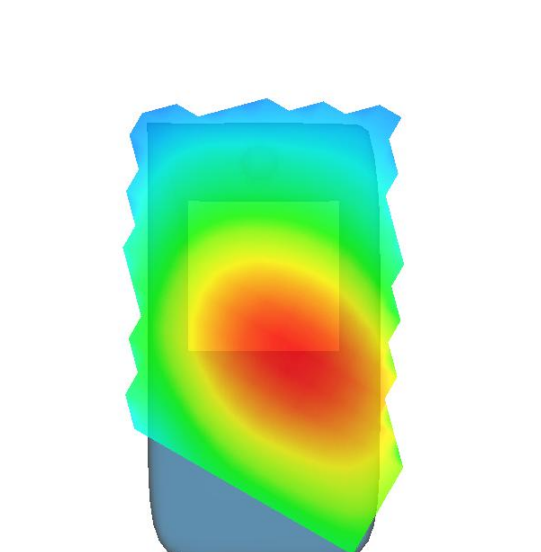
**Maximum location: X=-50.00, Y=-39.00**  
**SAR Peak: 0.41 W/kg**

<b>SAR 10g (W/Kg)</b>	0.265018
<b>SAR 1g (W/Kg)</b>	0.343793

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<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>0.4102</b>	<b>0.3470</b>	<b>0.2842</b>	<b>0.2357</b>	<b>0.1947</b>	<b>0.1607</b>	<b>0.1308</b>



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**LTE Band 17 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 04, 2024**

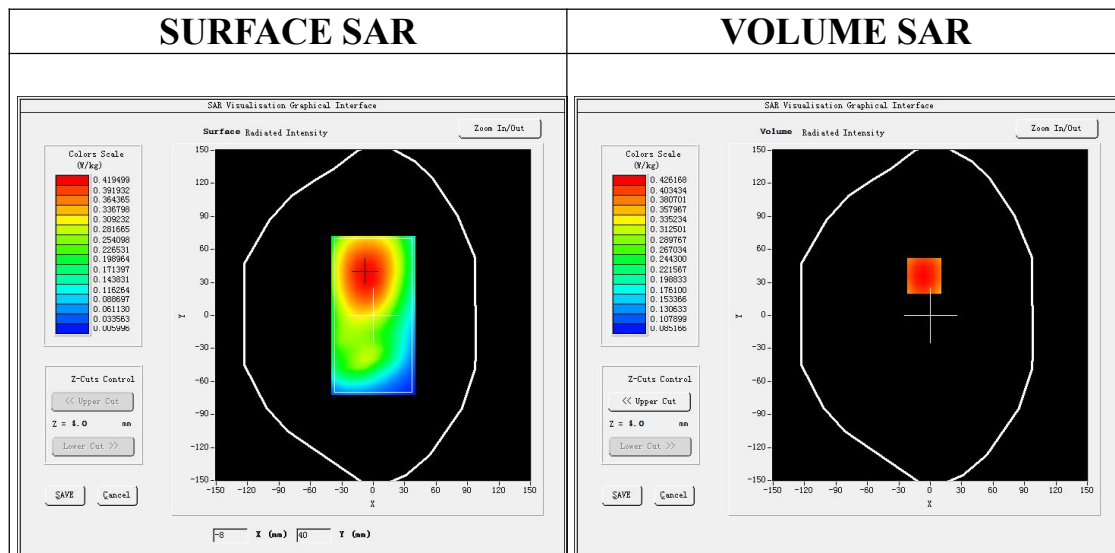
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 710 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.88$  mho/m;  $\epsilon_r = 43.22$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 17 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 17 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 17
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

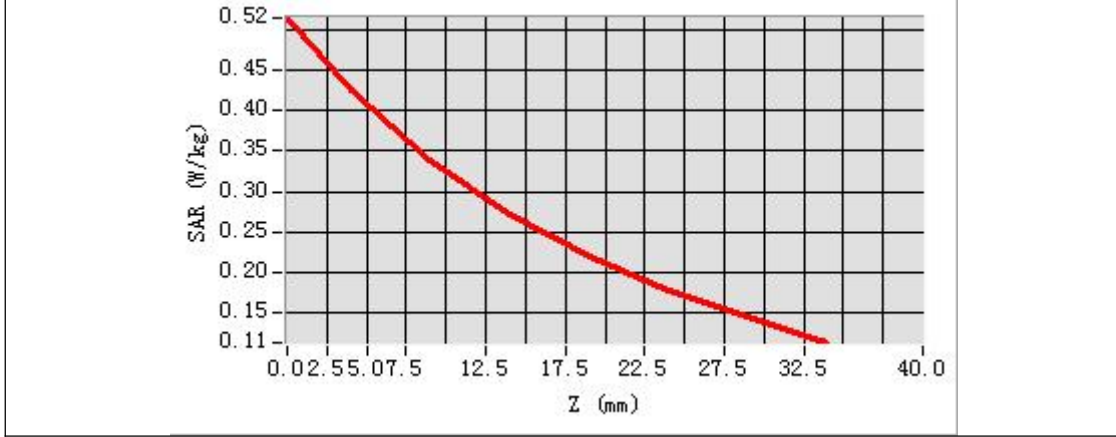


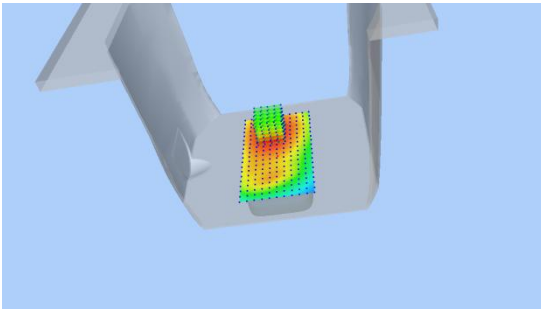
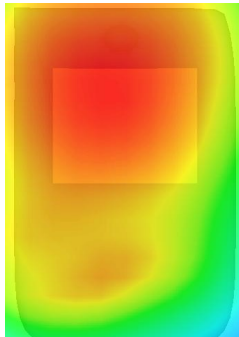
**Maximum location: X=-6.00, Y=36.00**  
**SAR Peak: 0.53 W/kg**

<b>SAR 10g (W/Kg)</b>	0.324893
<b>SAR 1g (W/Kg)</b>	0.424548

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5156	0.4262	0.3379	0.2727	0.2202	0.1762	0.1434



3D screen shot	Hot spot position
	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

**Test Laboratory: AGC Lab**  
**LTE Band 25 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 08, 2024**

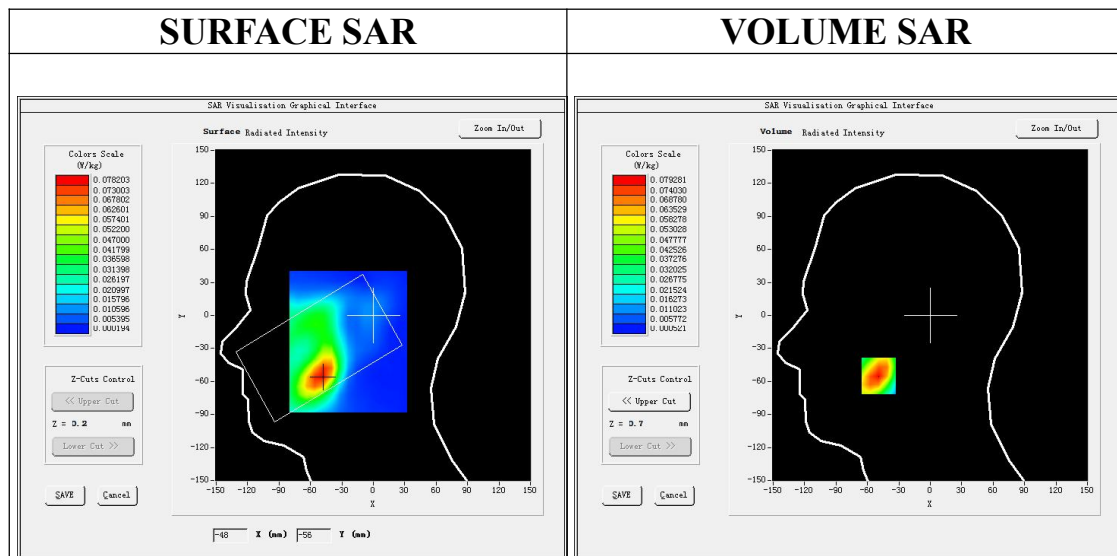
Communication System: LTE; Communication System Band: LTE Band 25; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1882.5MHz; Medium parameters used:  $f=1900$  MHz;  $\sigma=1.34$  mho/m;  $\epsilon_r=40.13$ ;  $\rho=1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 25 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 25 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

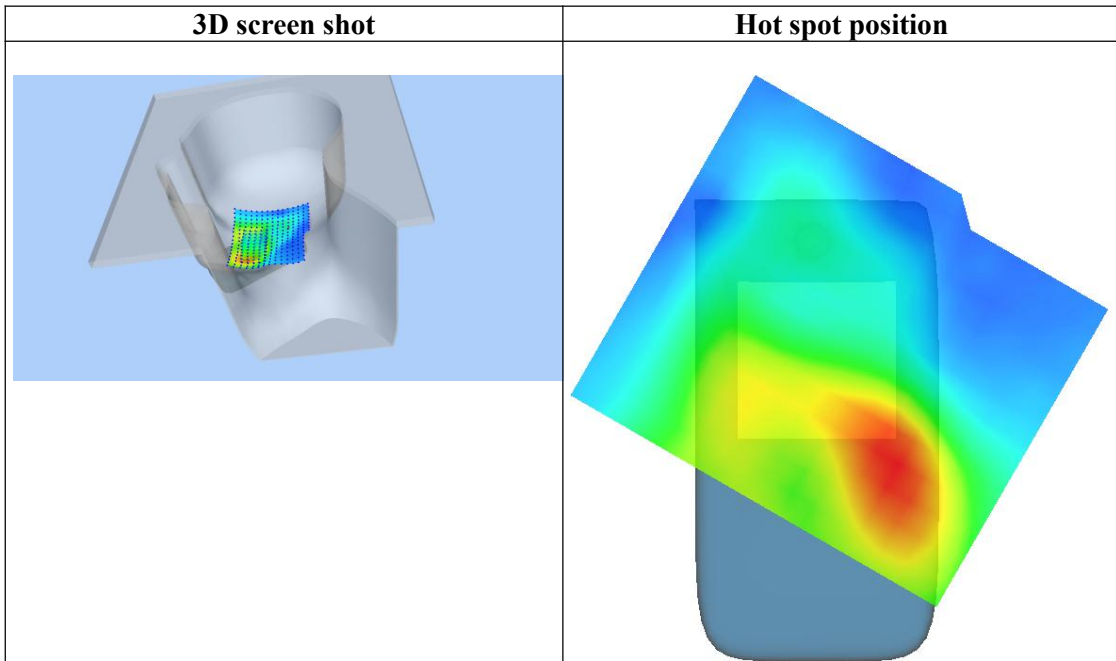
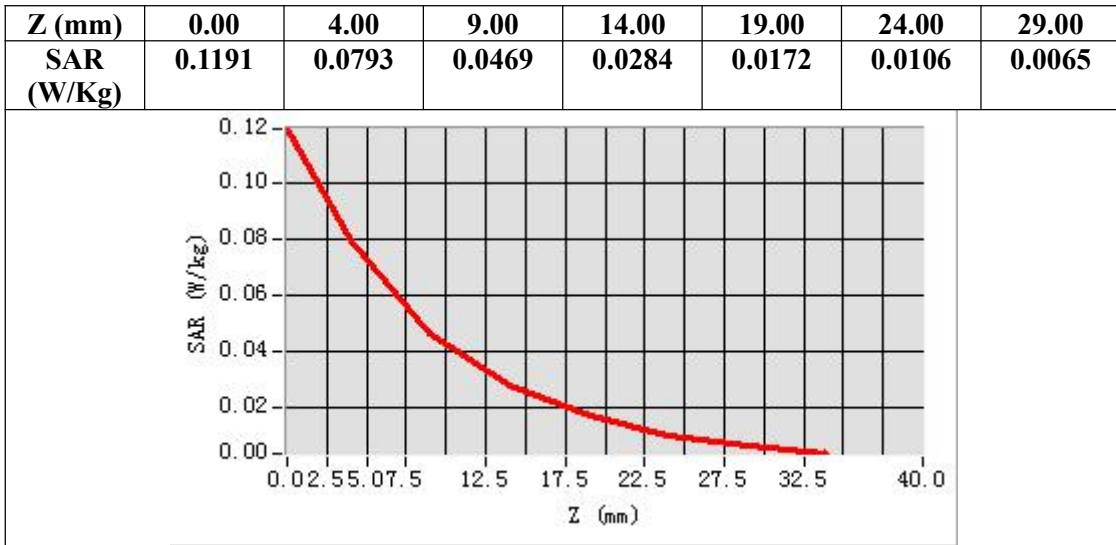
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 25
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-55.00**  
**SAR Peak: 0.12 W/kg**

<b>SAR 10g (W/Kg)</b>	0.042408
<b>SAR 1g (W/Kg)</b>	0.075472

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**Test Laboratory: AGC Lab**  
**LTE Band 25 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 08, 2024**

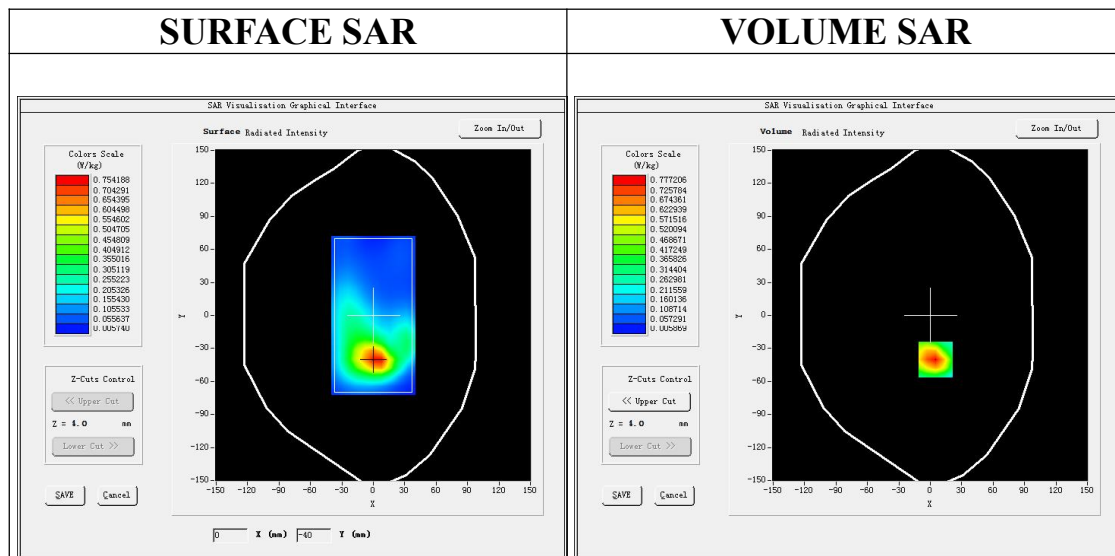
Communication System: LTE; Communication System Band: LTE Band 25; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1882.5MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 40.13$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 25 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 25 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 25
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



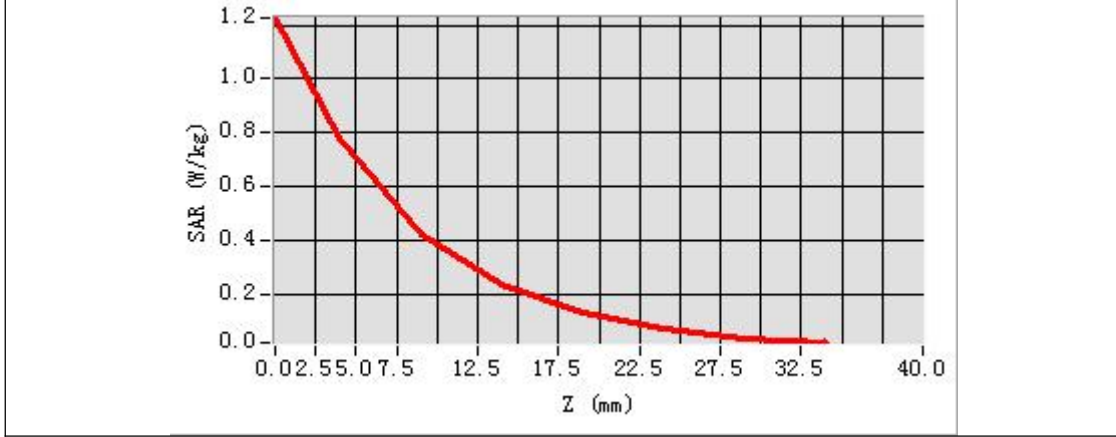
**Maximum location: X=5.00, Y=-40.00**  
**SAR Peak: 1.22 W/kg**

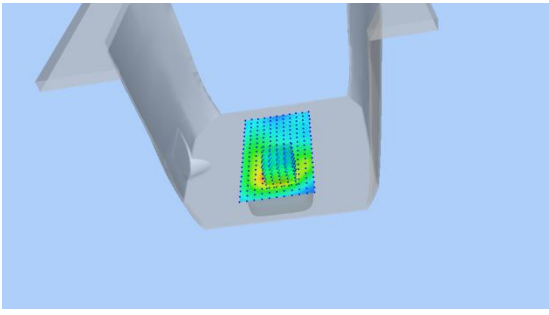
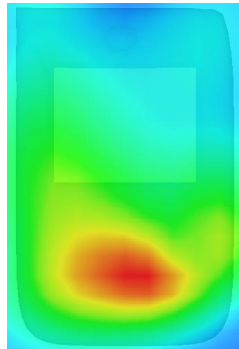
<b>SAR 10g (W/Kg)</b>	0.383693
<b>SAR 1g (W/Kg)</b>	0.730474

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<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>1.2269</b>	<b>0.7772</b>	<b>0.4253</b>	<b>0.2380</b>	<b>0.1306</b>	<b>0.0714</b>	<b>0.0388</b>



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

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**Test Laboratory: AGC Lab**  
**LTE Band 26A Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 03, 2024**

Communication System: LTE; Communication System Band: LTE Band 26A; Duty Cycle:1:1; Conv.F=2.02  
Frequency: 836.5 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.94$  mho/m;  $\epsilon_r = 40.67$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

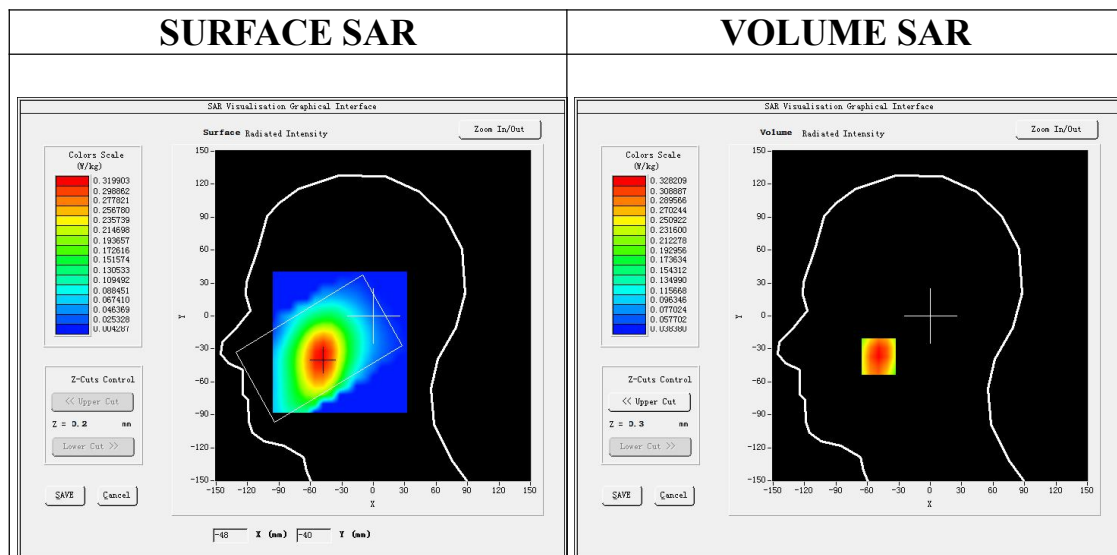
**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 26A Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 26A Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

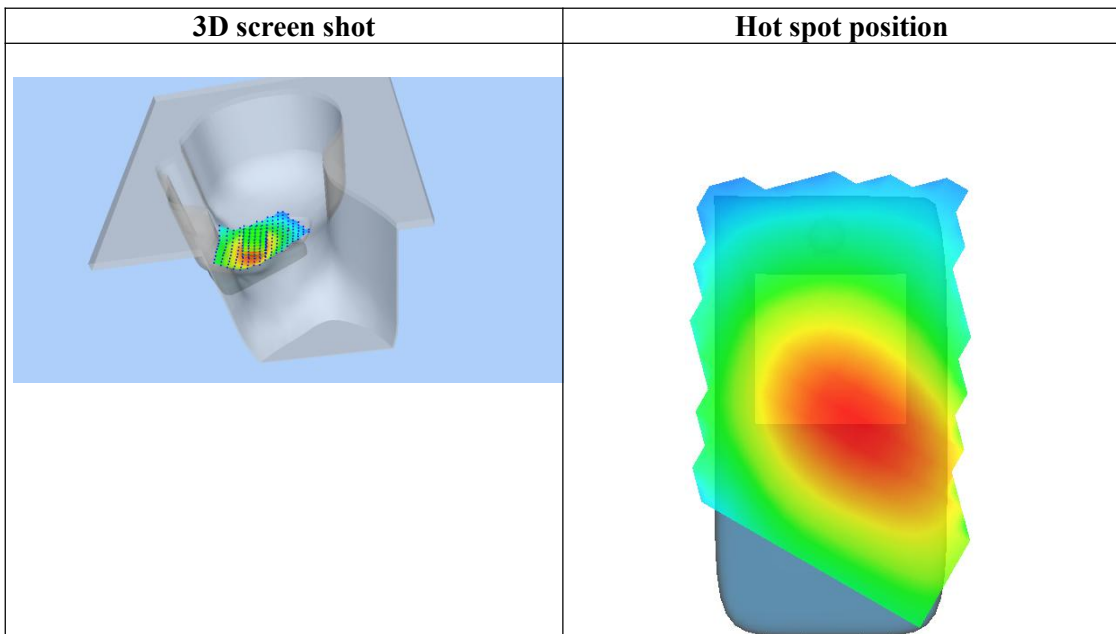
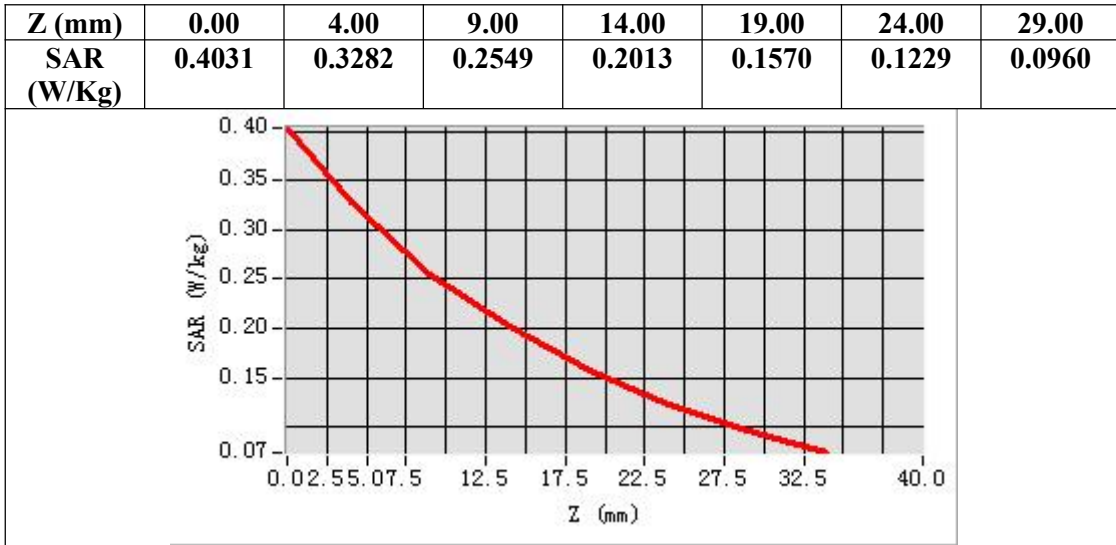
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 26A
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-37.00**  
**SAR Peak: 0.42 W/kg**

<b>SAR 10g (W/Kg)</b>	0.231321
<b>SAR 1g (W/Kg)</b>	0.318744

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**Test Laboratory: AGC Lab**  
**LTE Band 26A Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 03, 2024**

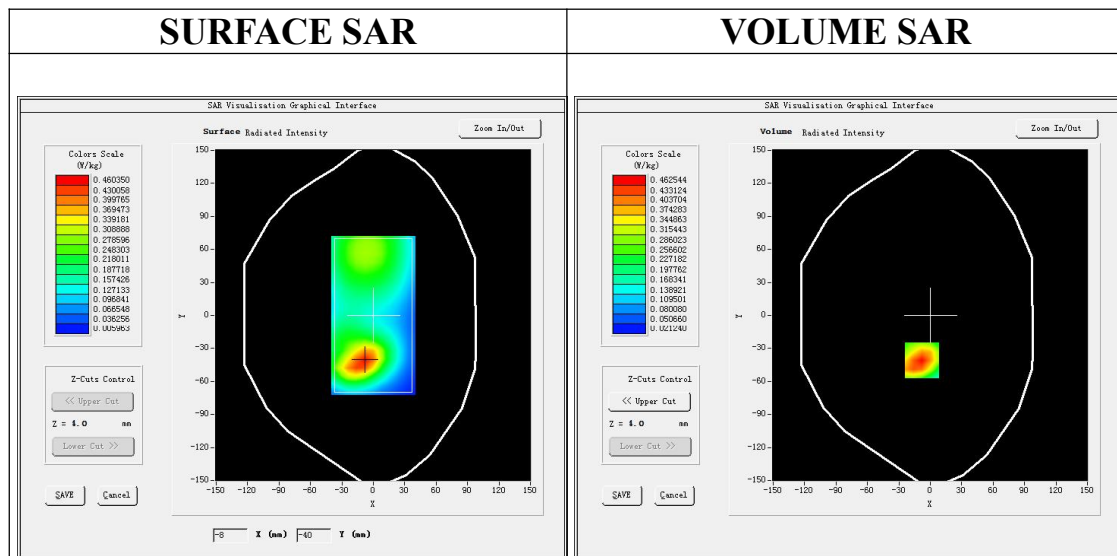
Communication System: LTE; Communication System Band: LTE Band 26A; Duty Cycle:1:1; Conv.F=2.02  
Frequency:836.5 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.94 \text{ mho/m}$ ;  $\epsilon_r = 40.67$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.1, Liquid temperature ( $^{\circ}\text{C}$ ): 20.8

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 26A Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 26A Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 26A
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

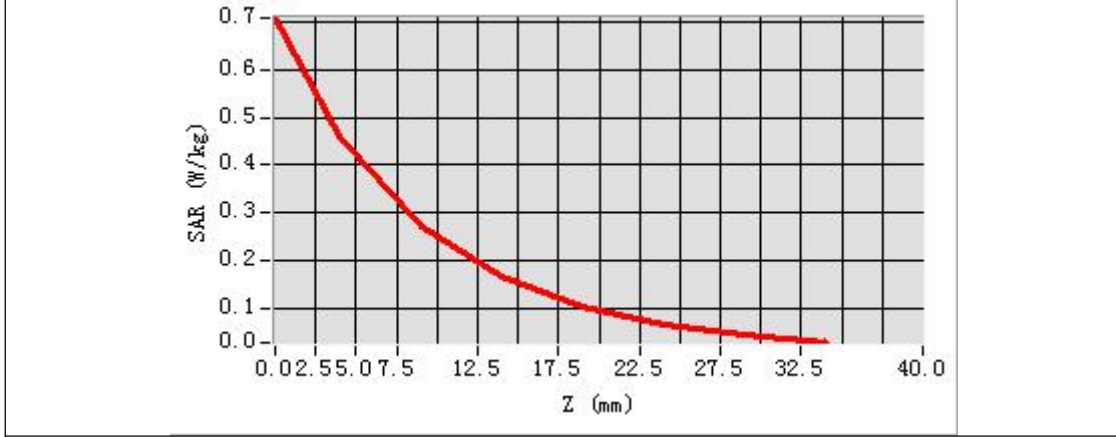


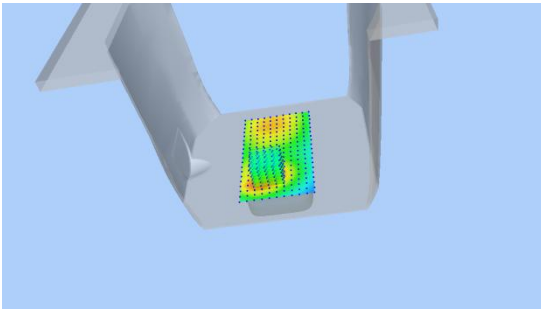
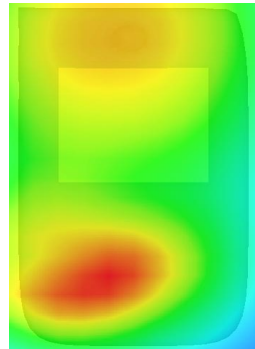
**Maximum location: X=-8.00, Y=-41.00**  
**SAR Peak: 0.71 W/kg**

<b>SAR 10g (W/Kg)</b>	0.251779
<b>SAR 1g (W/Kg)</b>	0.441403

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<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>0.7071</b>	<b>0.4625</b>	<b>0.2711</b>	<b>0.1674</b>	<b>0.1064</b>	<b>0.0687</b>	<b>0.0453</b>



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**LTE Band 26B Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 03, 2024**

Communication System: LTE; Communication System Band: LTE Band 26B; Duty Cycle:1:1; Conv.F=2.02  
Frequency: 819 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma=0.89$  mho/m;  $\epsilon_r = 43.26$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

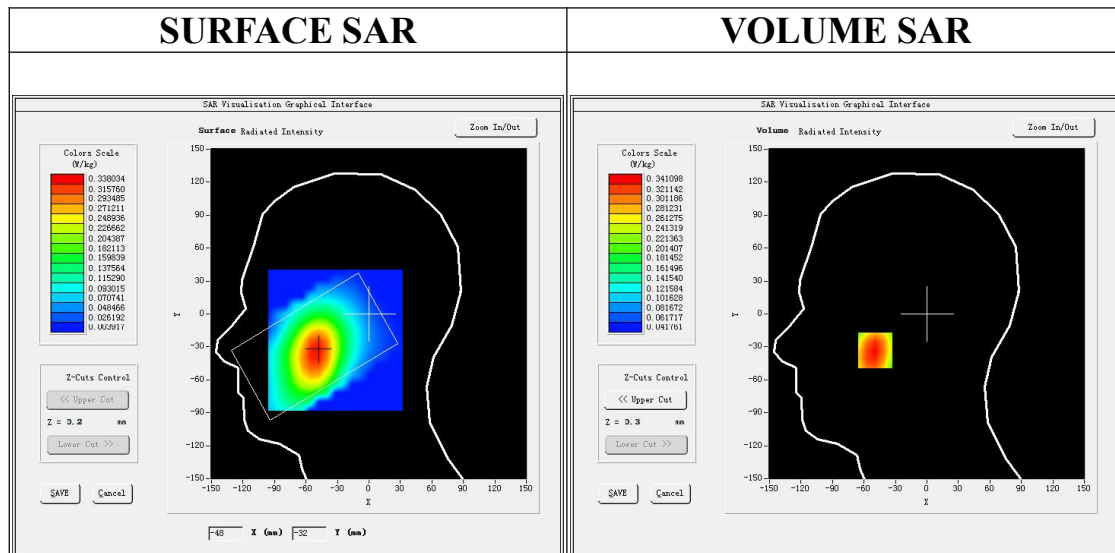
**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 26B Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 26B Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

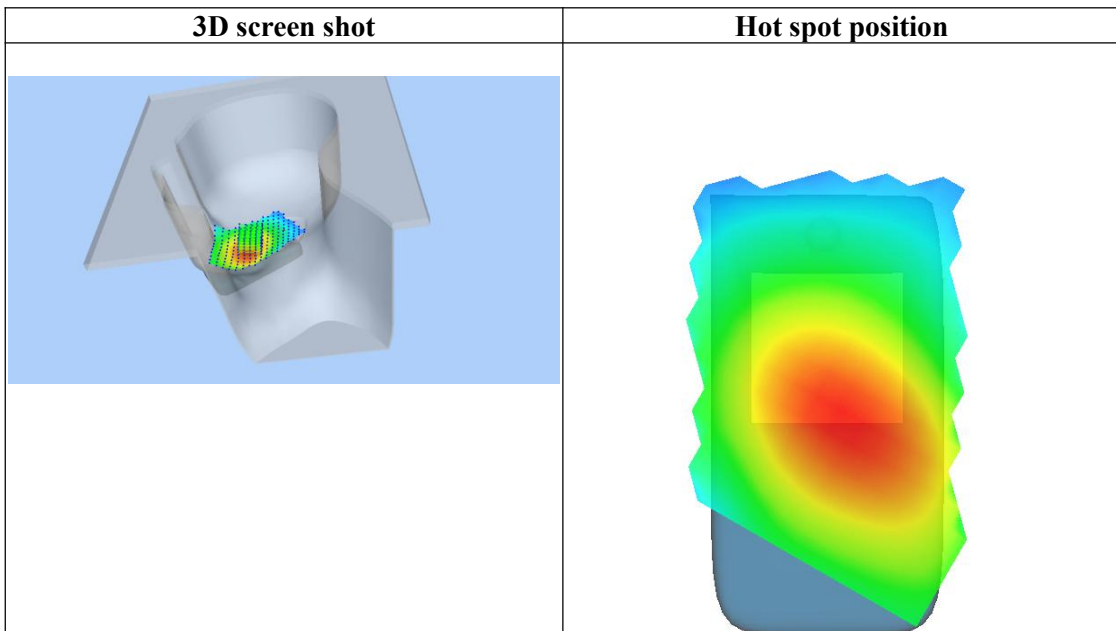
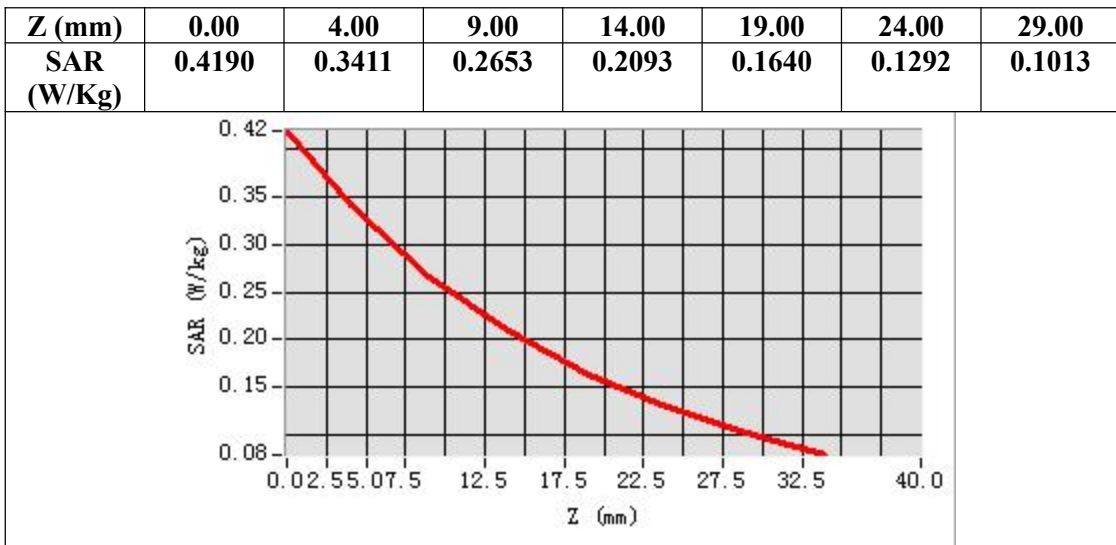
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 26B
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-49.00, Y=-33.00**  
**SAR Peak: 0.42 W/kg**

<b>SAR 10g (W/Kg)</b>	0.241754
<b>SAR 1g (W/Kg)</b>	0.329803

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**Test Laboratory: AGC Lab**  
**LTE Band 26B Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 03, 2024**

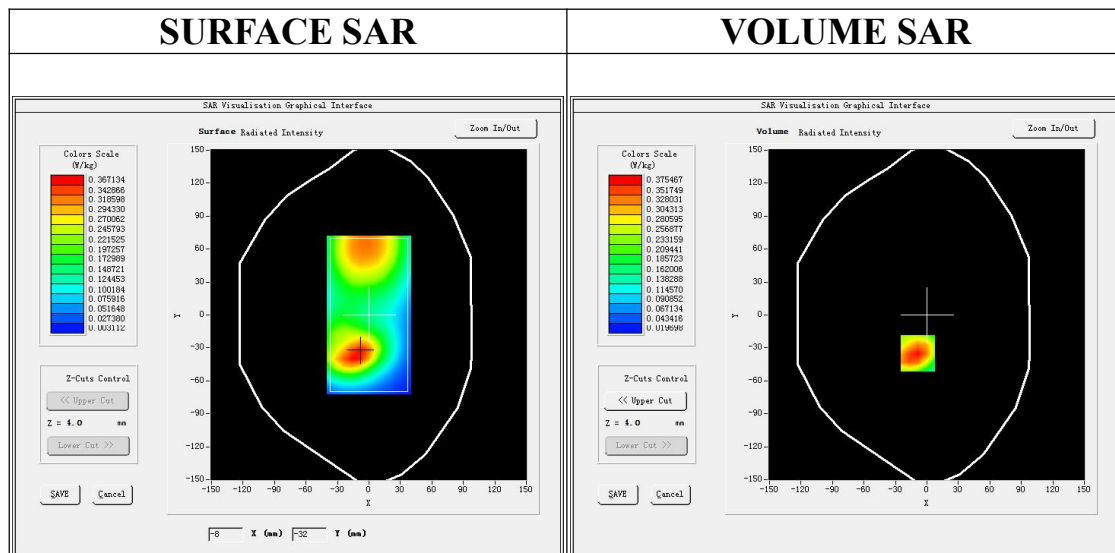
Communication System: LTE; Communication System Band: LTE Band 26B; Duty Cycle:1:1; Conv.F=2.02  
Frequency:819 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma=0.89$  mho/m;  $\epsilon_r = 43.26$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.1, Liquid temperature (°C): 20.8

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 26B Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 26B Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 26B
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



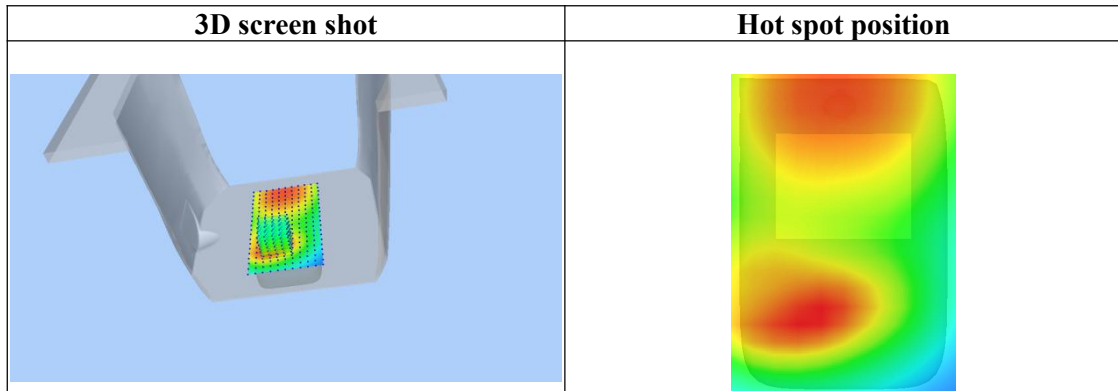
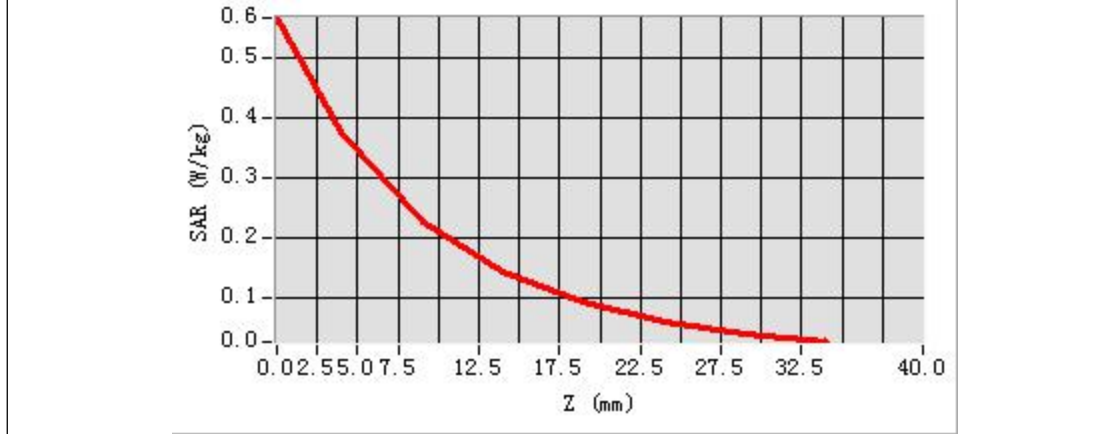
**Maximum location: X=-9.00, Y=-35.00**  
**SAR Peak: 0.57 W/kg**

<b>SAR 10g (W/Kg)</b>	0.211342
<b>SAR 1g (W/Kg)</b>	0.360327

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<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>0.5648</b>	<b>0.3755</b>	<b>0.2255</b>	<b>0.1420</b>	<b>0.0923</b>	<b>0.0606</b>	<b>0.0407</b>



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**Test Laboratory: AGC Lab**  
**LTE Band 41 Mid-Touch-Right (1RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 05, 2024**

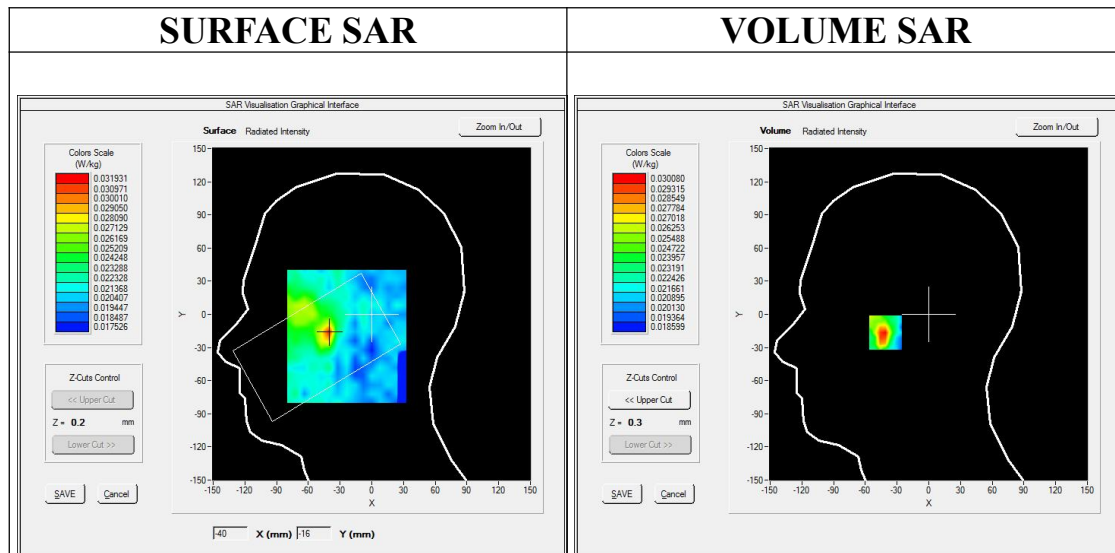
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.13  
Frequency: 2593MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 39.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 41 Mid-Touch-Right/Area Scan:** Measurement grid: dx=8mm, y=8mm  
**Configuration/ LTE BAND 41 Mid-Touch-Right/Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

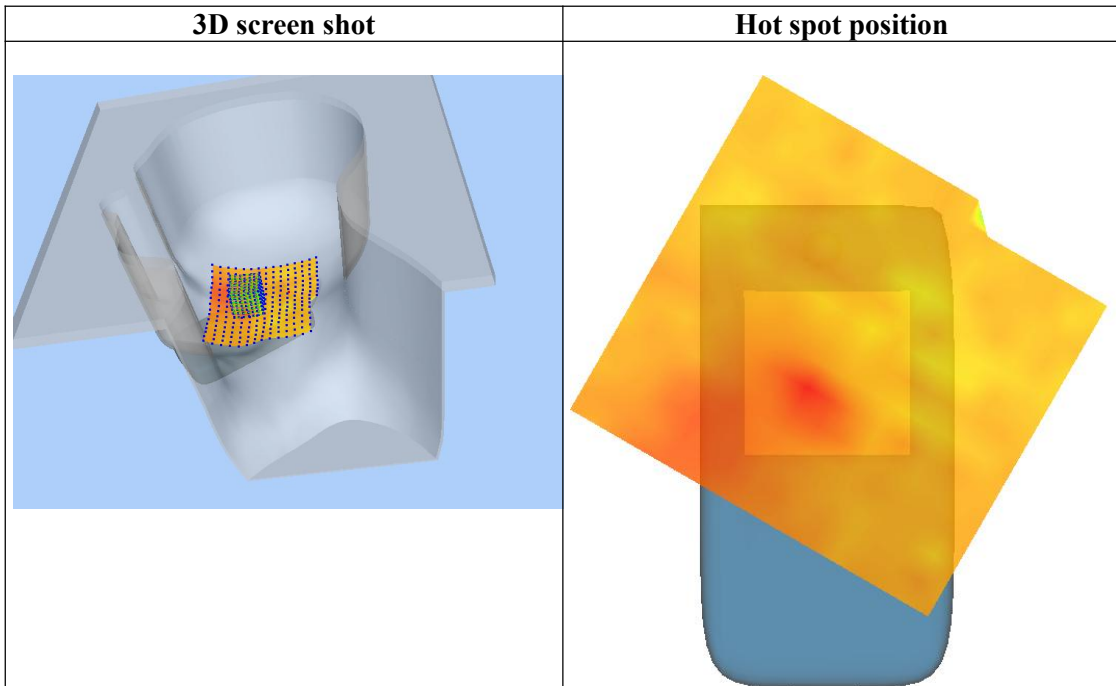
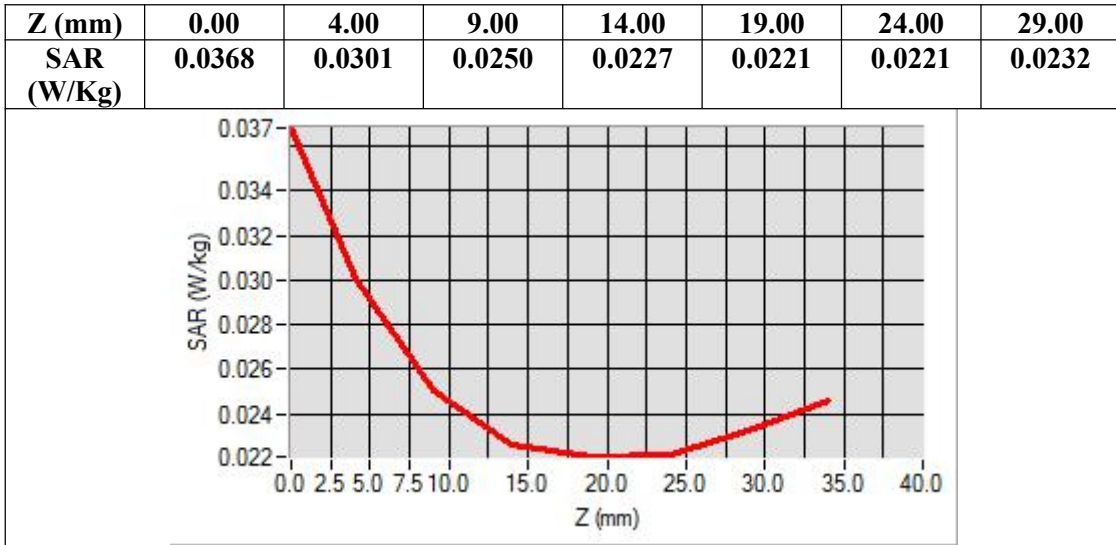
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE BAND 41
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.58)



**Maximum location: X=-41.00, Y=-16.00**  
**SAR Peak: 0.04 W/kg**

<b>SAR 10g (W/Kg)</b>	0.023762
<b>SAR 1g (W/Kg)</b>	0.028203

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**Test Laboratory: AGC Lab**  
**LTE Band 41 Mid-Body-Back(1RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 05, 2024**

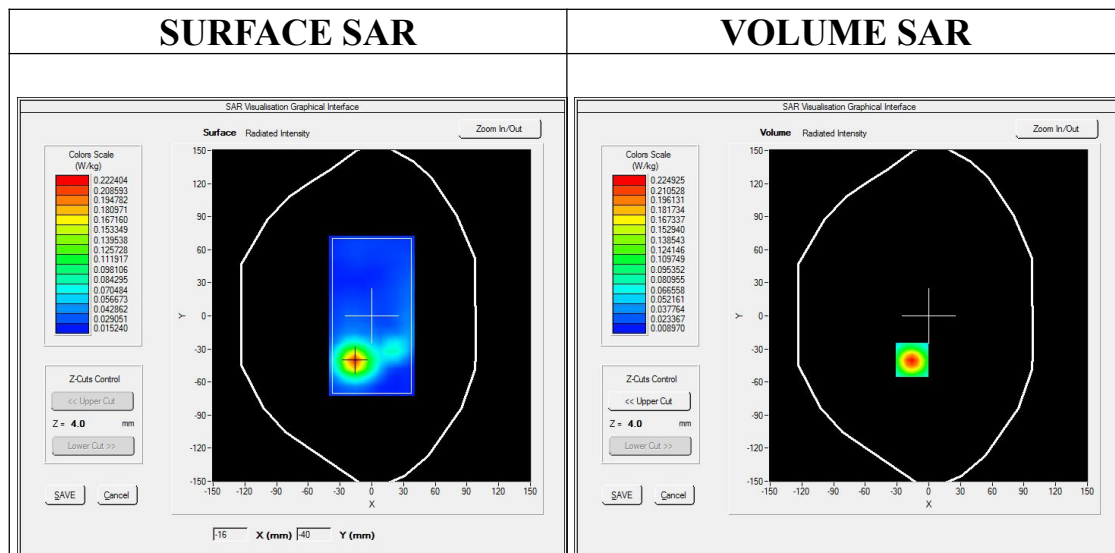
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.13  
Frequency: 2593MHz; Medium parameters used:  $f = 2600$  MHz;  $\sigma = 1.96$  mho/m;  $\epsilon_r = 39.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE BAND 41 Mid-Body-Back /Area Scan:** Measurement grid: dx=10mm, y=10mm  
**Configuration/ LTE BAND 41 Mid-Body-Back /Zoom Scan:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

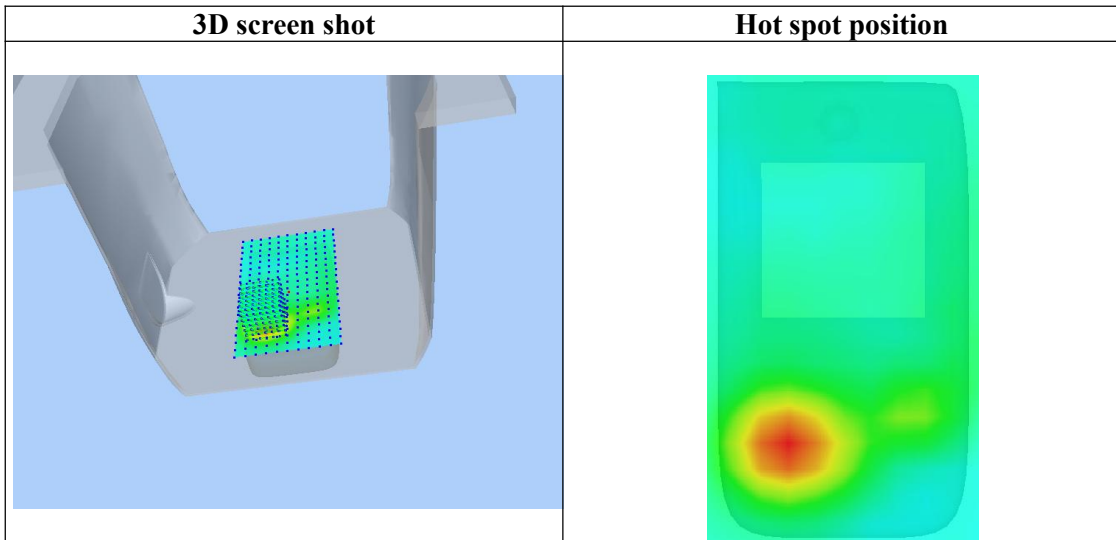
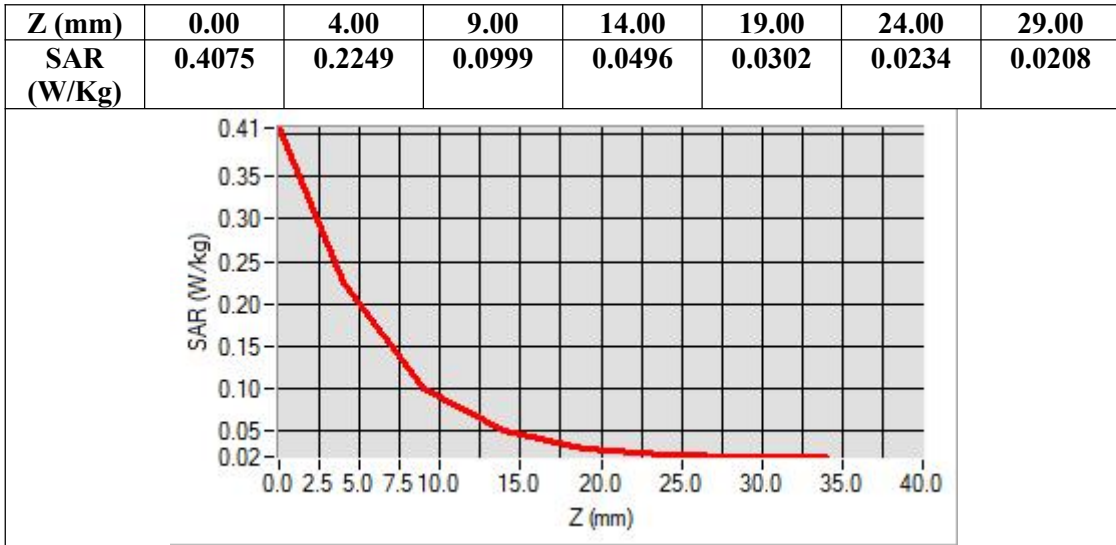
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE BAND 41
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.58)



**Maximum location: X=-16.00, Y=-40.00**  
**SAR Peak: 0.40 W/kg**

<b>SAR 10g (W/Kg)</b>	0.095951
<b>SAR 1g (W/Kg)</b>	0.207246

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**Test Laboratory: AGC Lab**  
**LTE Band 66 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 07, 2024**

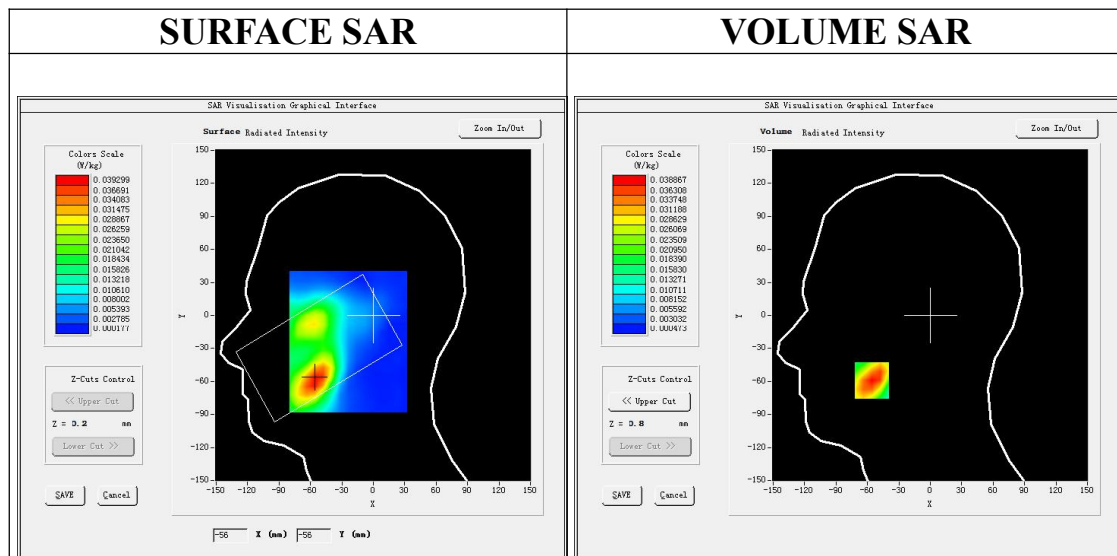
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1745 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.30$  mho/m;  $\epsilon_r = 40.17$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 66 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 66 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

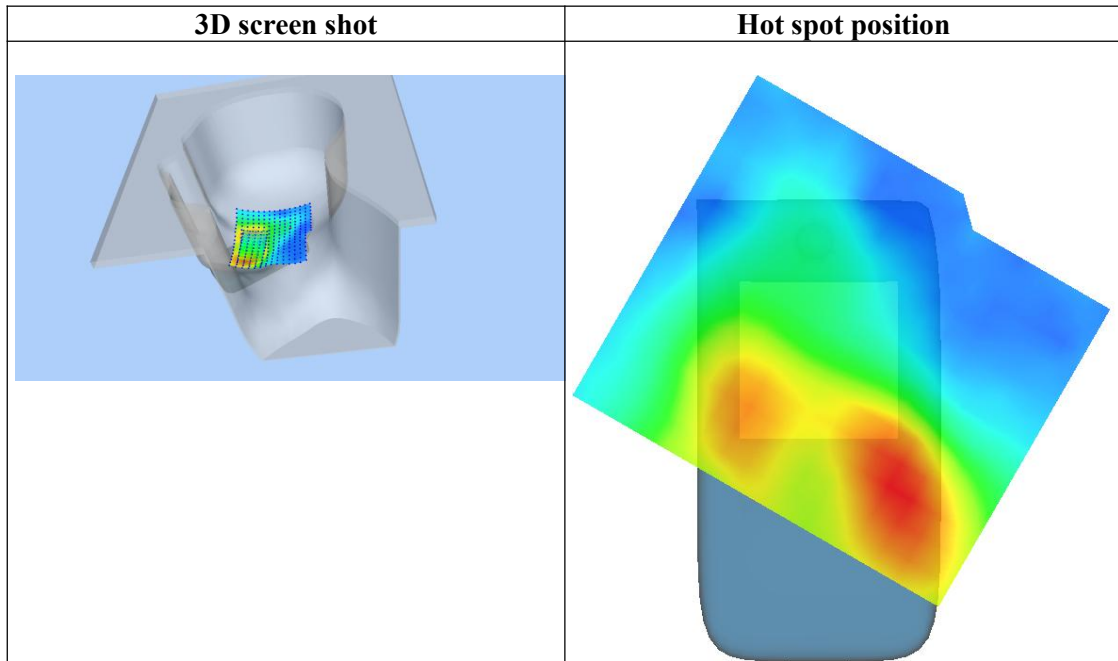
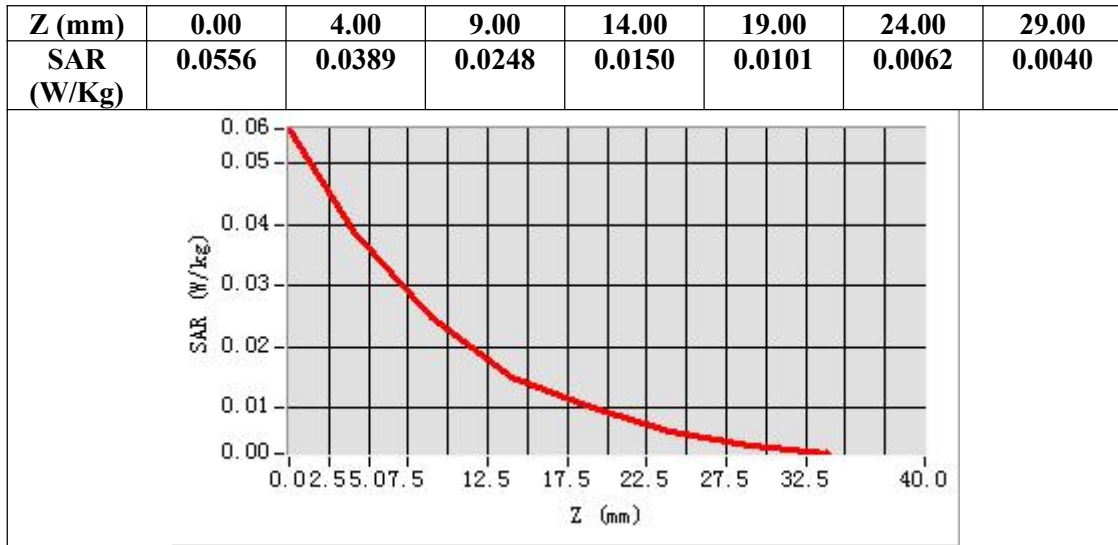
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 66
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-56.00, Y=-59.00**  
**SAR Peak: 0.06 W/kg**

<b>SAR 10g (W/Kg)</b>	0.021290
<b>SAR 1g (W/Kg)</b>	0.036947

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**Test Laboratory: AGC Lab**  
**LTE Band 66 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 07, 2024**

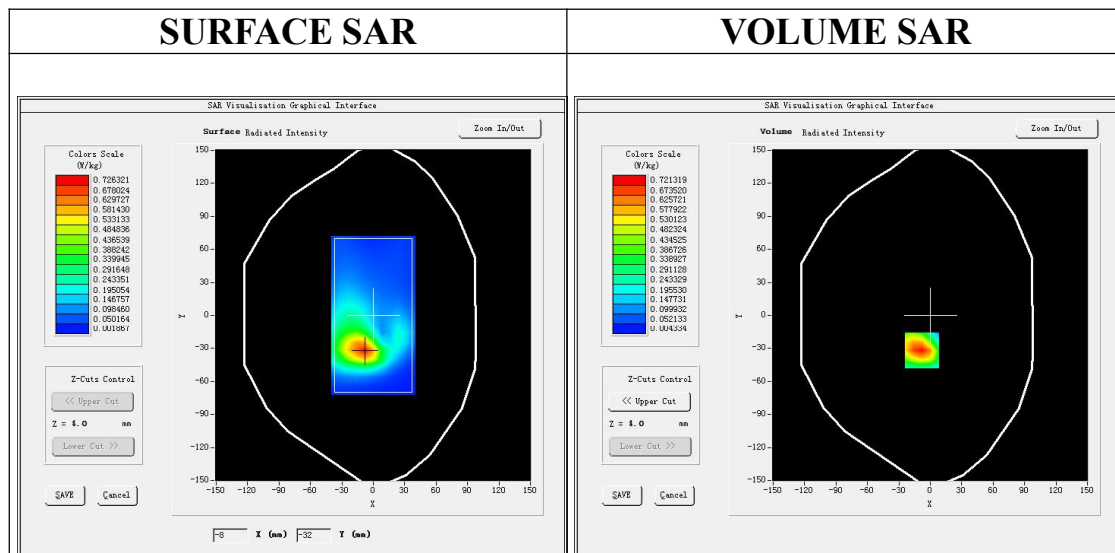
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1745 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.30$  mho/m;  $\epsilon_r = 40.17$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 66 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 66 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 66
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



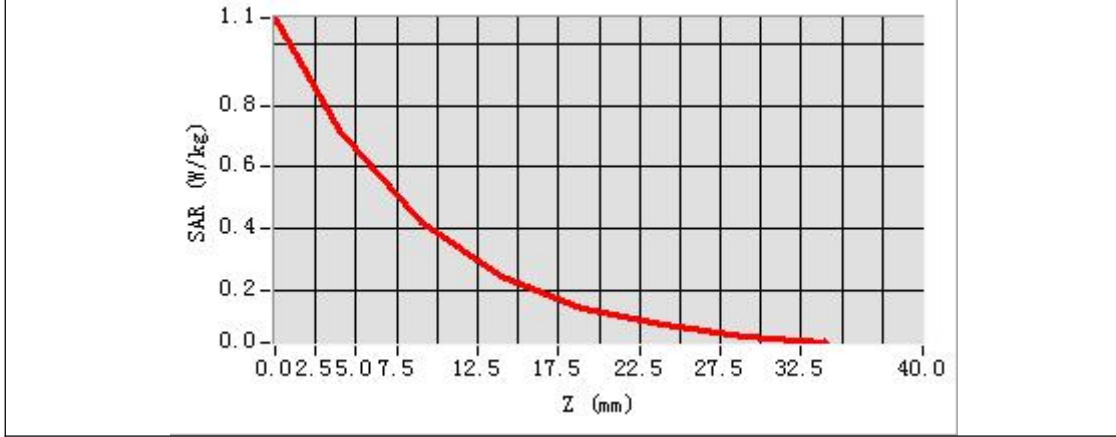
**Maximum location: X=-8.00, Y=-32.00**  
**SAR Peak: 1.09 W/kg**

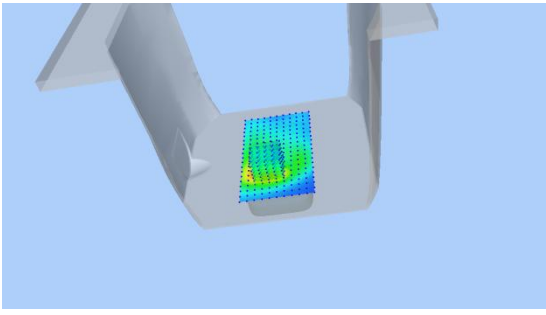
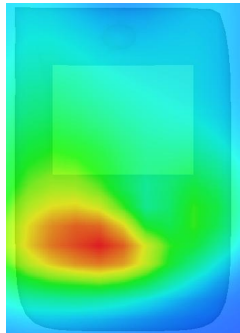
<b>SAR 10g (W/Kg)</b>	0.367442
<b>SAR 1g (W/Kg)</b>	0.674600

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<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>1.0878</b>	<b>0.7213</b>	<b>0.4198</b>	<b>0.2404</b>	<b>0.1371</b>	<b>0.0824</b>	<b>0.0462</b>



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

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**Test Laboratory: AGC Lab**  
**LTE Band 71 Mid-Touch-Right (1 RB#0)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 04, 2024**

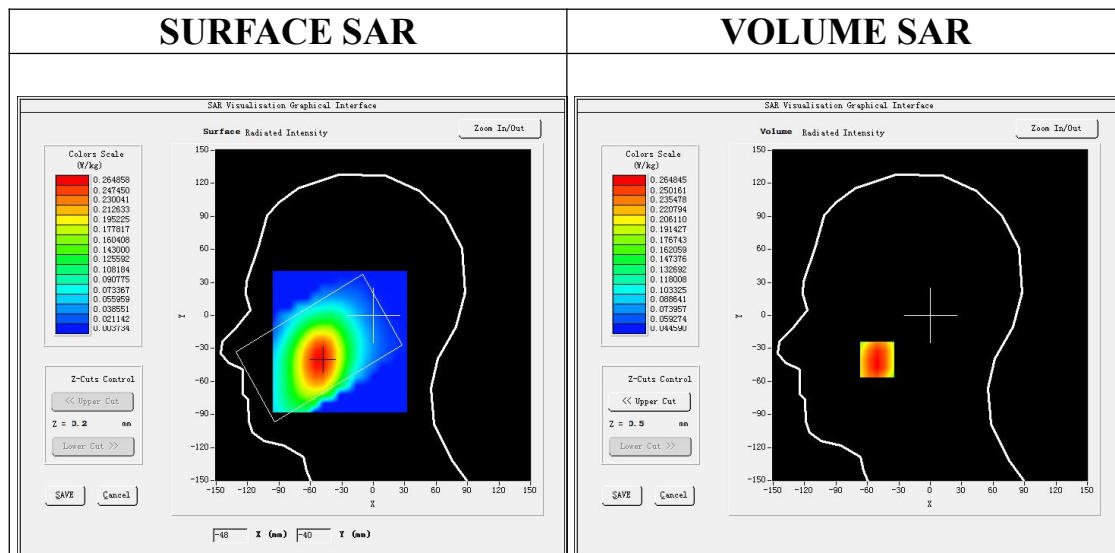
Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95  
Frequency: 683 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.82$  mho/m;  $\epsilon_r = 45.79$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 71 Mid- Touch-Right /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 71 Mid- Touch-Right /Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

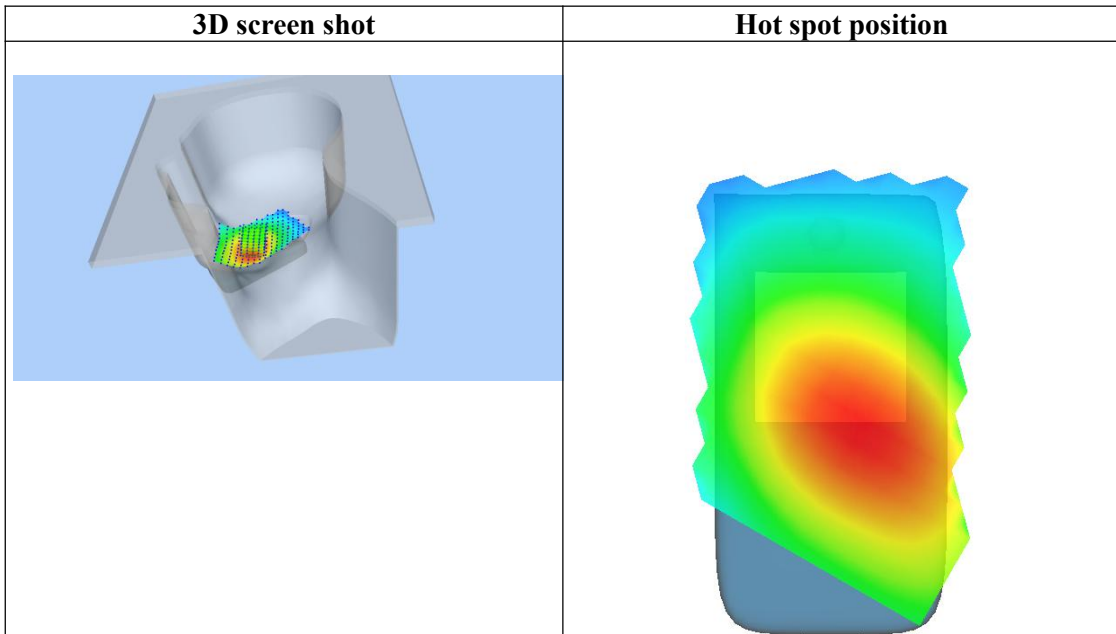
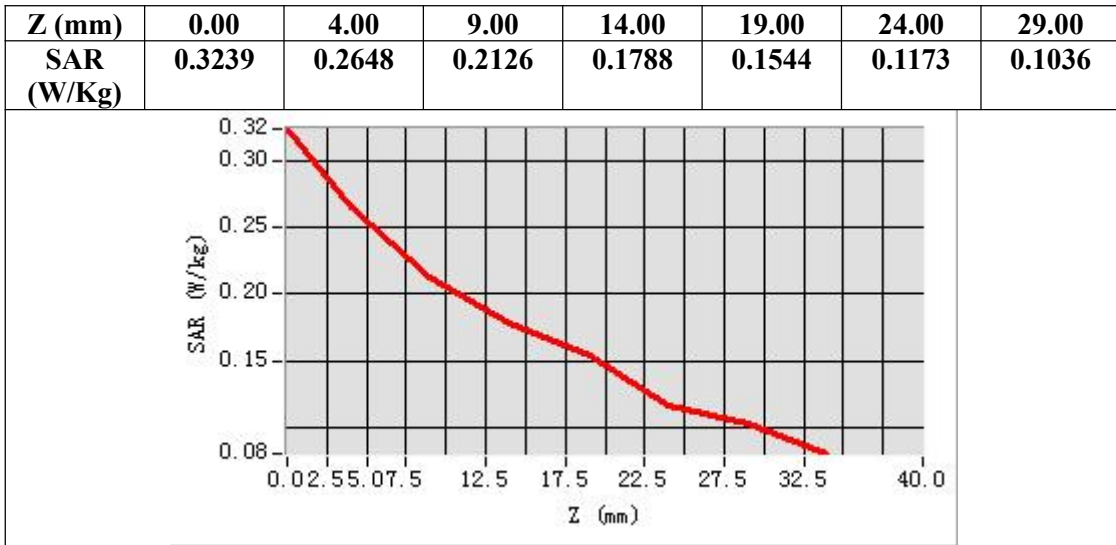
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	LTE Band 71
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-51.00, Y=-40.00**  
**SAR Peak: 0.33 W/kg**

<b>SAR 10g (W/Kg)</b>	0.209684
<b>SAR 1g (W/Kg)</b>	0.272668

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**Test Laboratory: AGC Lab**  
**LTE Band 71 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 04, 2024**

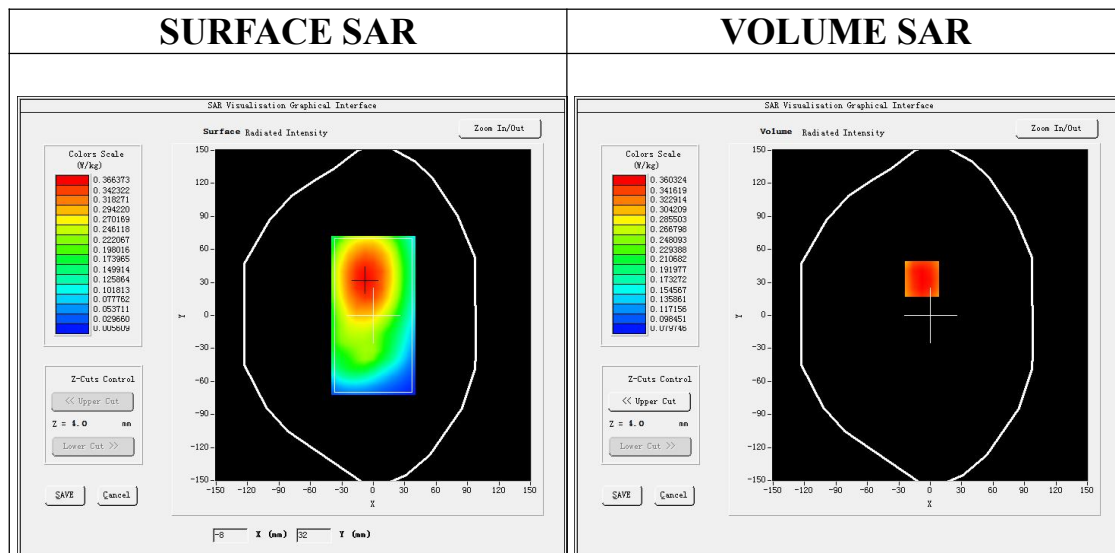
Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 683 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.82$  mho/m;  $\epsilon_r = 45.79$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 71 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 71 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 71
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

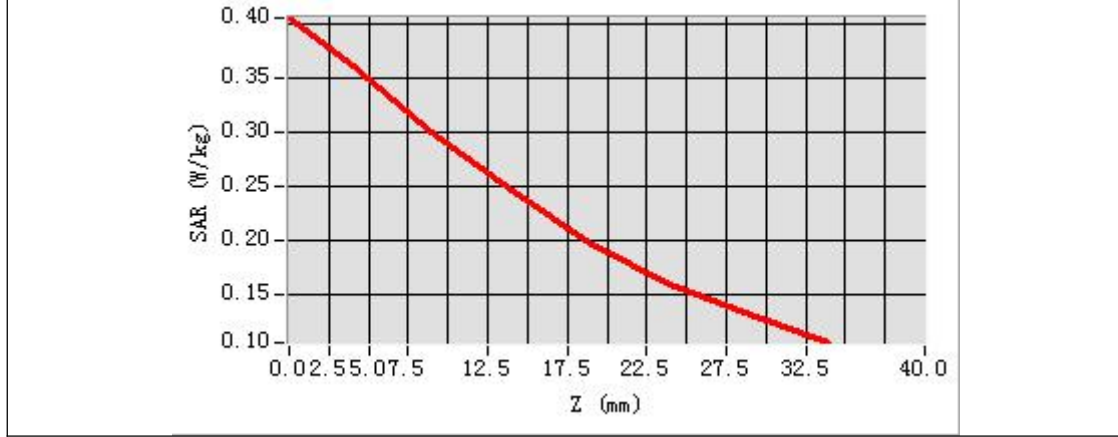


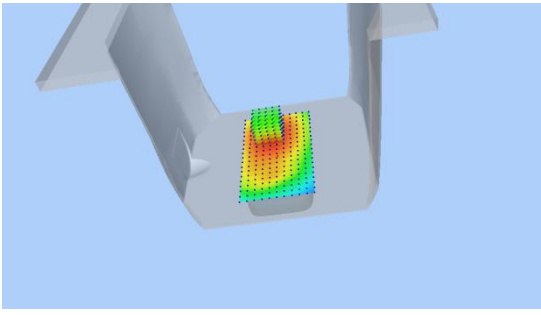
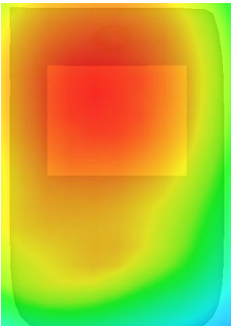
**Maximum location: X=-8.00, Y=33.00**  
**SAR Peak: 0.42 W/kg**

<b>SAR 10g (W/Kg)</b>	0.285446
<b>SAR 1g (W/Kg)</b>	0.363260

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4050	0.3603	0.2991	0.2465	0.1959	0.1593	0.1312



3D screen shot	Hot spot position
	

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**WIFI MODE**

Test Laboratory: AGC Lab  
802.11b Mid-Touch-Right  
DUT: Smartphone; Type: VORTEX HD68

Date: Jan. 06, 2024

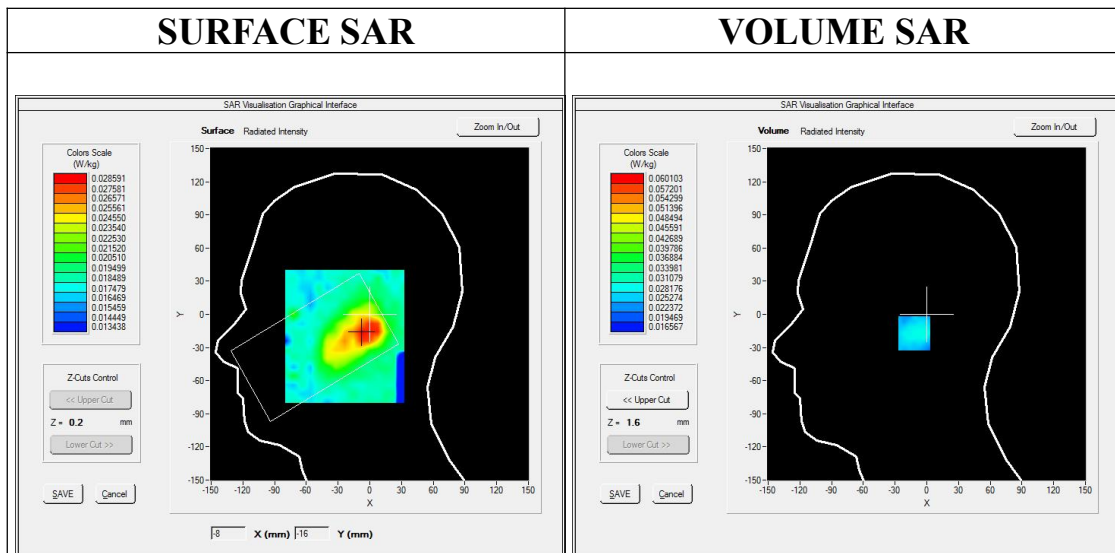
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.80$  mho/m;  $\epsilon_r = 40.66$   $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/802.11b Mid- Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/802.11b Mid- Touch-Right/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



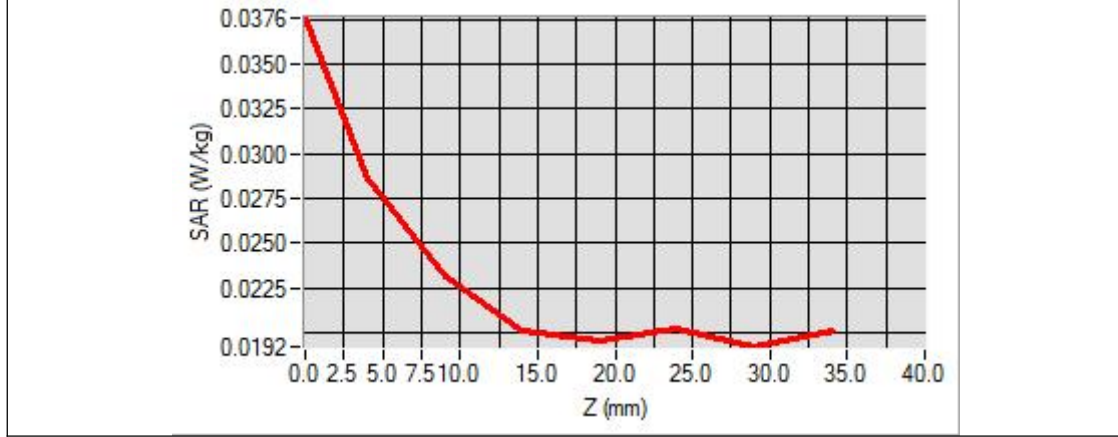
**Maximum location: X=-7.00, Y=-17.00**

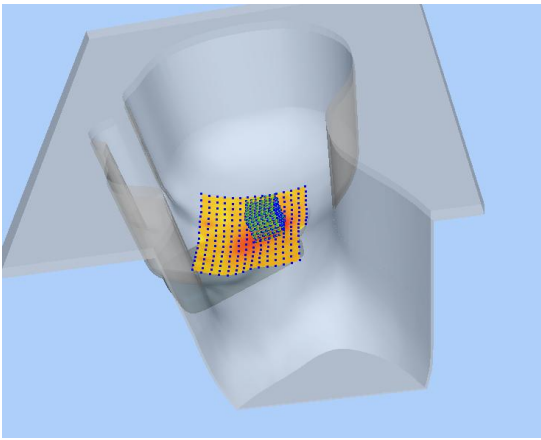
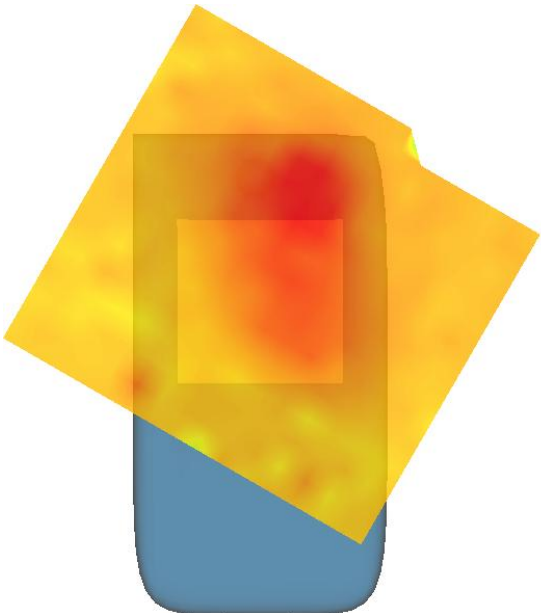
**SAR Peak: 0.04 W/kg**

<b>SAR 10g (W/Kg)</b>	0.023608
<b>SAR 1g (W/Kg)</b>	0.029182

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0376	0.0287	0.0231	0.0202	0.0195	0.0202	0.0192



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**802.11b Mid-Body-Worn- Back**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 06, 2024**

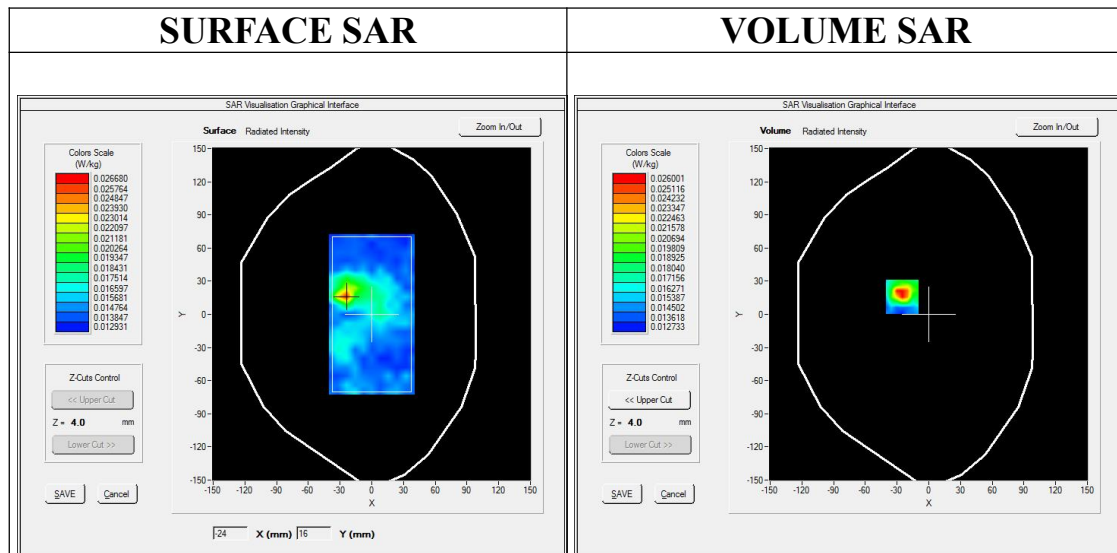
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.80$  mho/m;  $\epsilon_r = 40.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):21.2, Liquid temperature (°C): 20.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11b Mid- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11b Mid- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-25.00, Y=16.00**

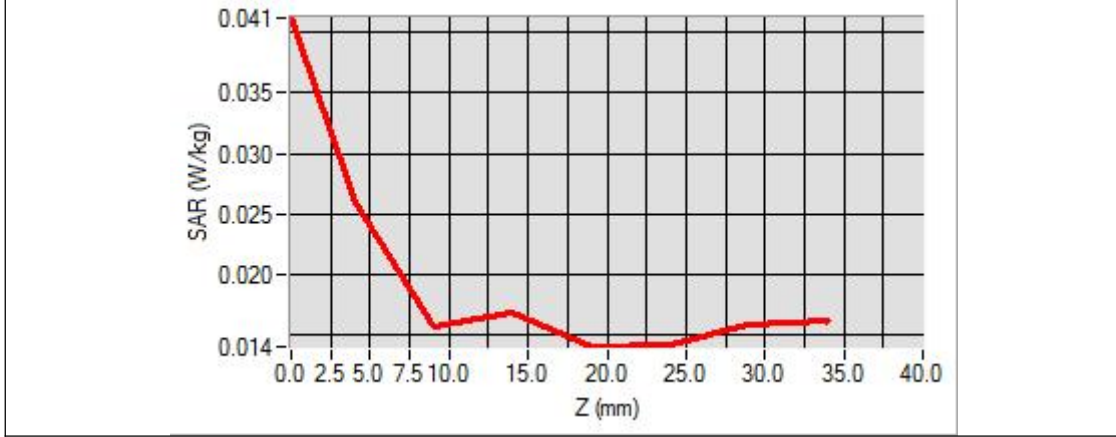
**SAR Peak: 0.04 W/kg**

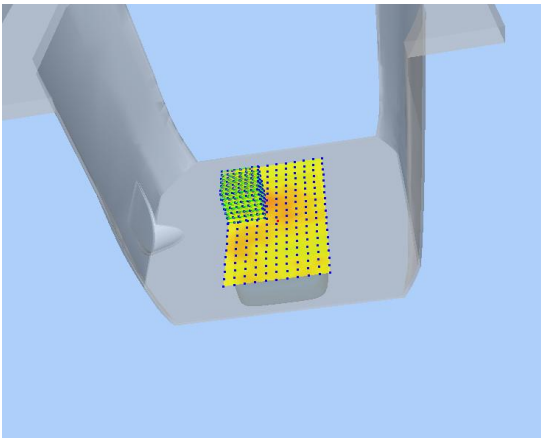
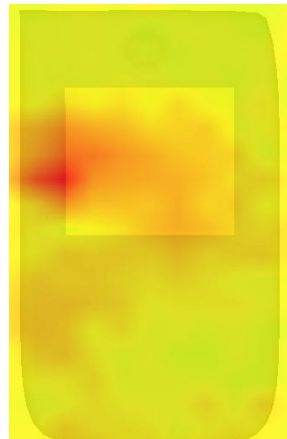
<b>SAR 10g (W/Kg)</b>	0.037947
<b>SAR 1g (W/Kg)</b>	0.089270

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<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>0.0412</b>	<b>0.0260</b>	<b>0.0157</b>	<b>0.0168</b>	<b>0.0141</b>	<b>0.0142</b>	<b>0.0159</b>



3D screen shot	Hot spot position
	

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**Repeated SAR**

**Test Laboratory: AGC Lab**  
**WCDMA Band IV Mid-Body-Towards Grounds (RMC)**  
**DUT: Smartphone; Type: VORTEX HD68**

**Date: Jan. 07, 2024**

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17;  
Frequency:1732.4 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 41.39$ ;  $\rho = 1000$  kg/m<sup>3</sup>;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

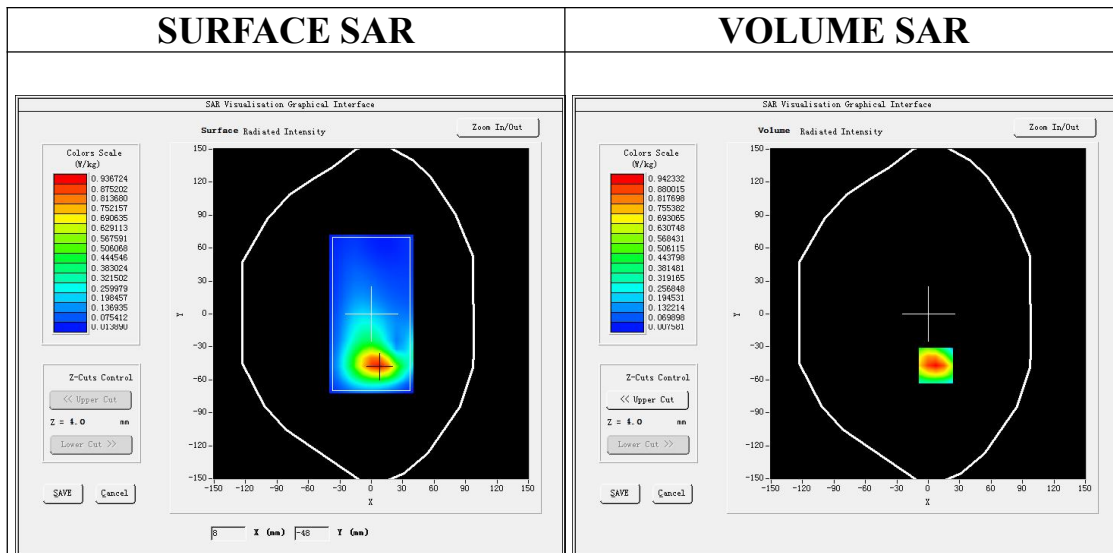
**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ WCDMA Band IV Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ WCDMA Band IV Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

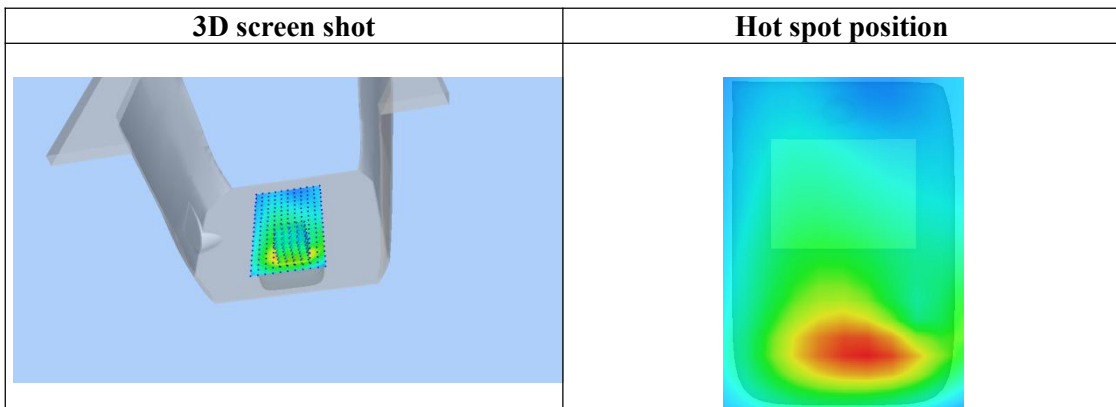
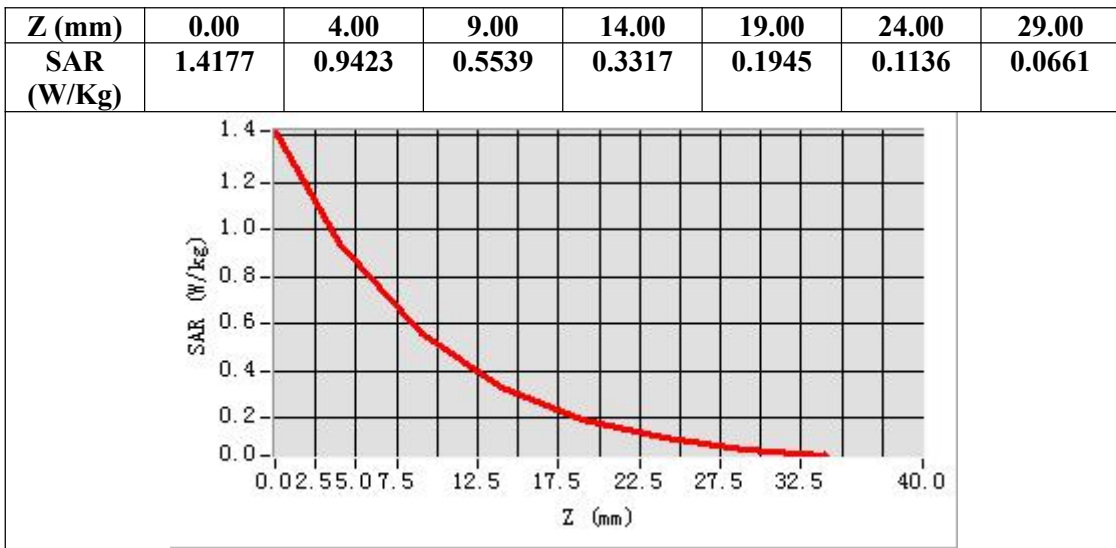
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	WCDMA Band IV
<b>Channels</b>	Middle
<b>Signal</b>	CDMA (Crest factor: 1.0)



**Maximum location: X=7.00, Y=-47.00**  
**SAR Peak: 1.43 W/kg**

<b>SAR 10g (W/Kg)</b>	0.485618
<b>SAR 1g (W/Kg)</b>	0.886014

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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 08, 2024**

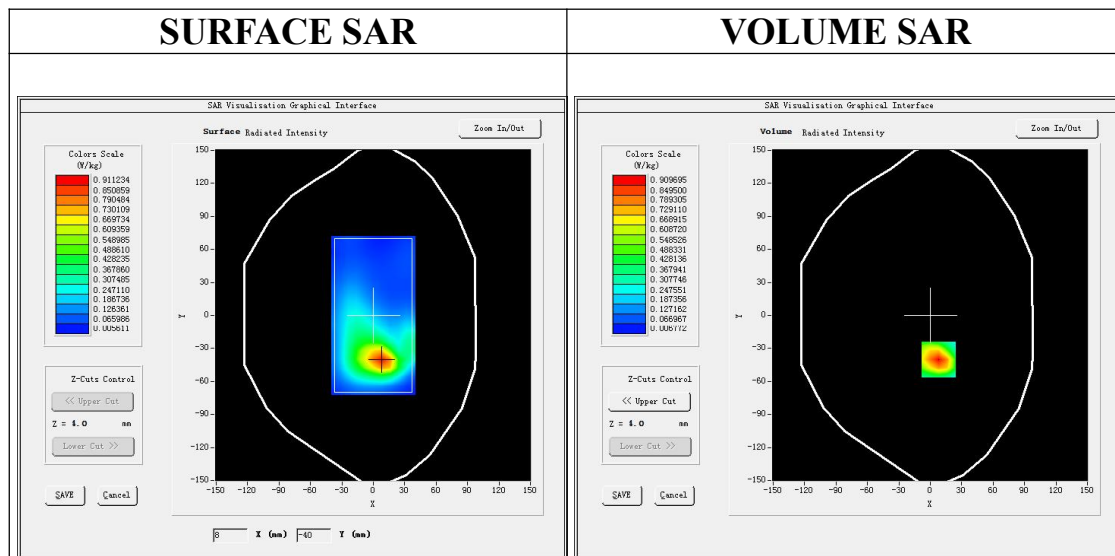
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1880MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.31$  mho/m;  $\epsilon_r = 40.69$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 2 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

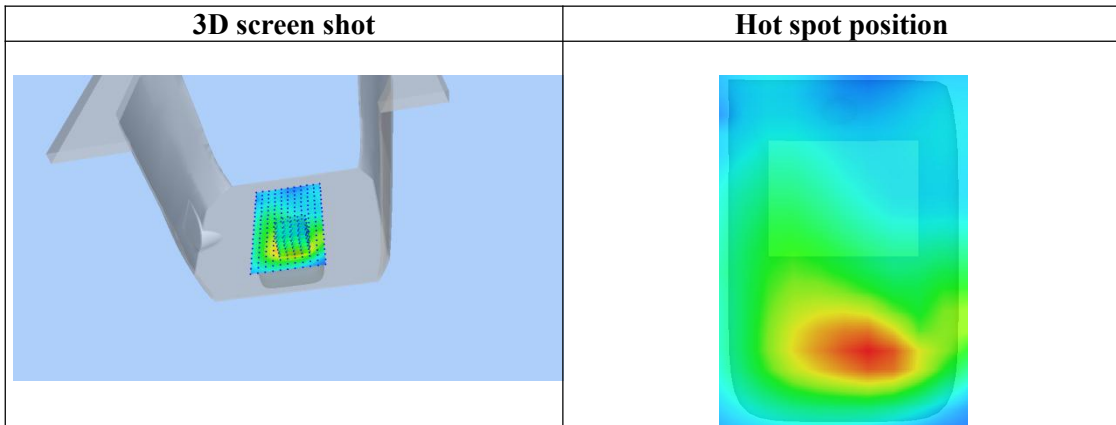
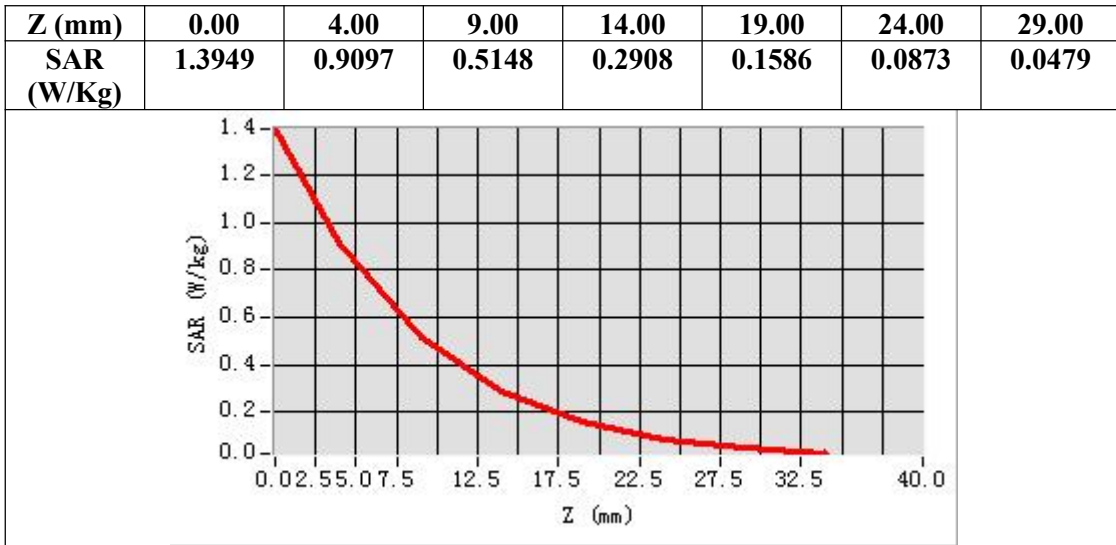
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=8.00, Y=-40.00**  
**SAR Peak: 1.41 W/kg**

<b>SAR 10g (W/Kg)</b>	0.445035
<b>SAR 1g (W/Kg)</b>	0.851432

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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Body-Back (1 RB#0)**  
DUT: Smartphone; Type: VORTEX HD68

**Date: Jan. 07, 2024**

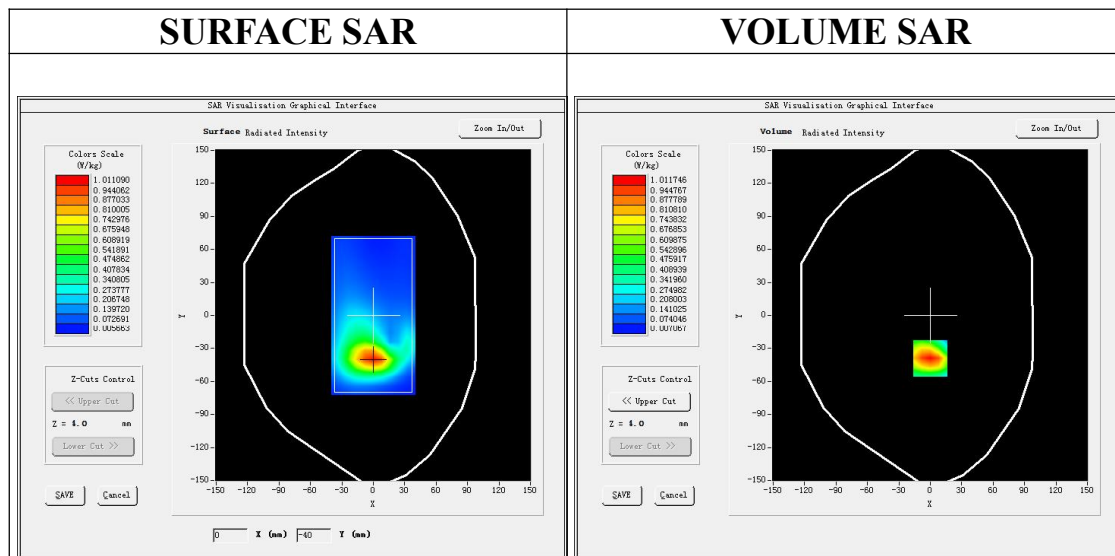
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1732.5 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.28$  mho/m;  $\epsilon_r = 41.39$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.9, Liquid temperature (°C): 20.6

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ LTE Band 4 Mid-Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 Mid-Body-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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

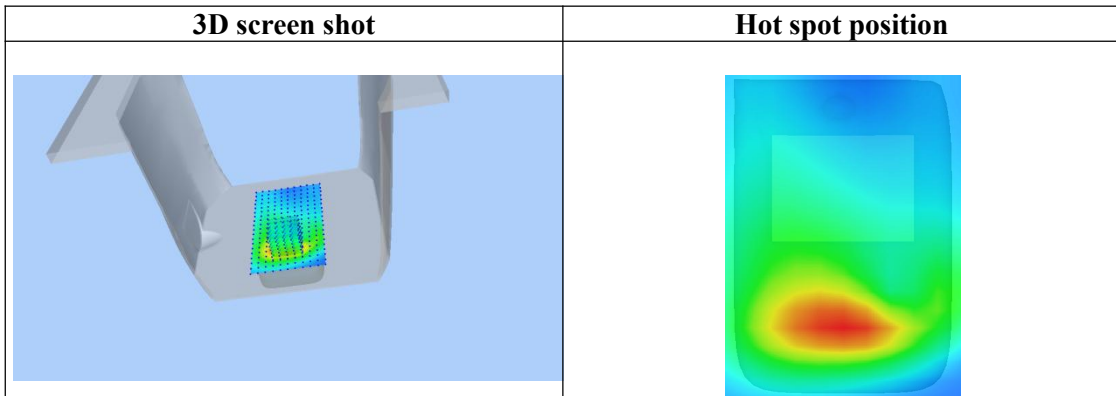
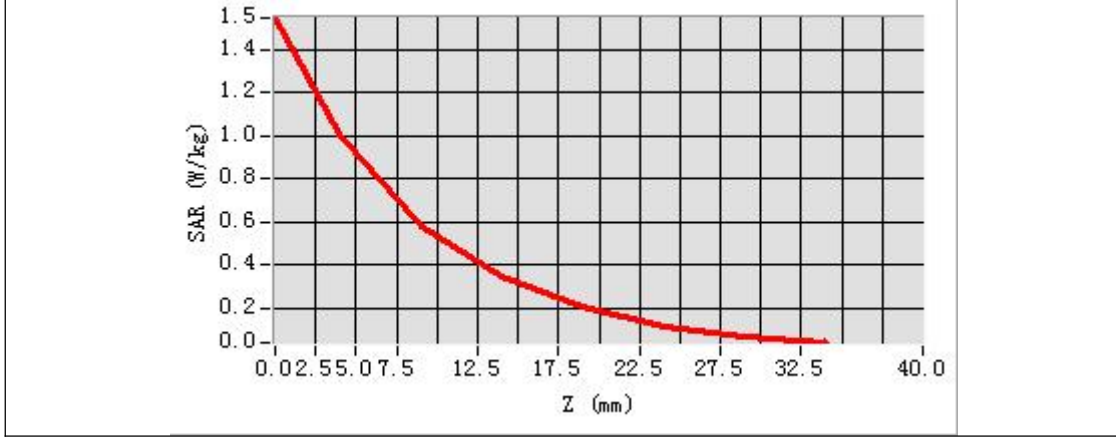


**Maximum location: X=0.00, Y=-39.00**  
**SAR Peak: 1.56 W/kg**

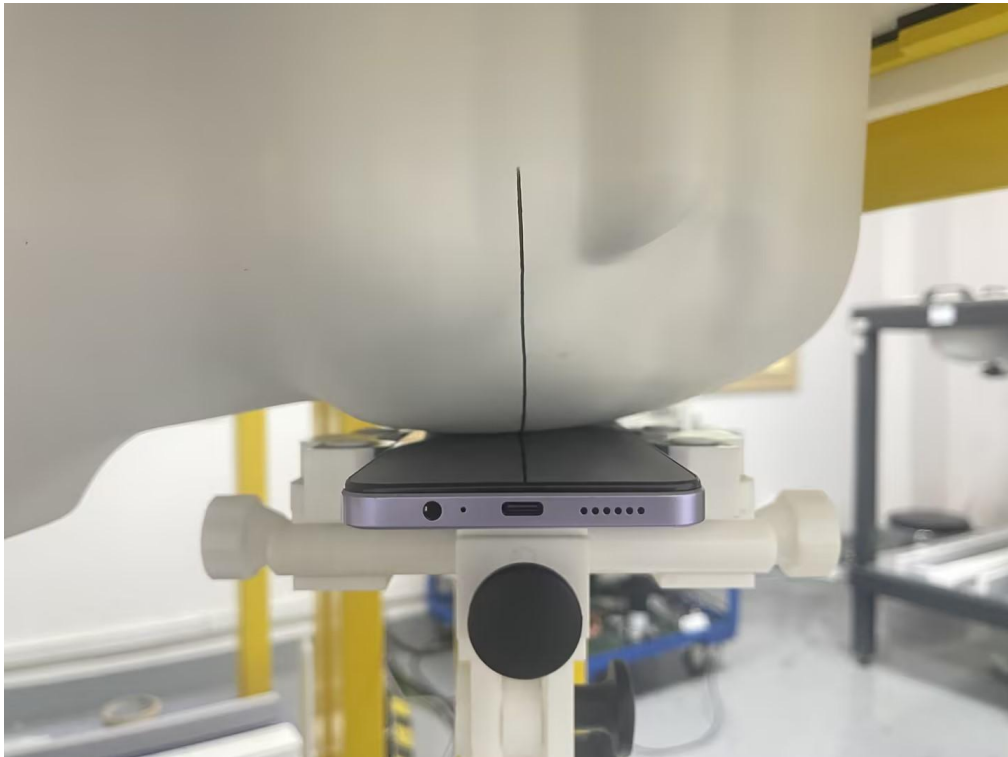
<b>SAR 10g (W/Kg)</b>	0.511859
<b>SAR 1g (W/Kg)</b>	0.950337

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Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.5471	1.0117	0.5832	0.3506	0.2034	0.1162	0.0669



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**APPENDIX C. TEST SETUP PHOTOGRAPHS**  
LEFT-CHEEK TOUCH

LEFT-TILT 15°



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