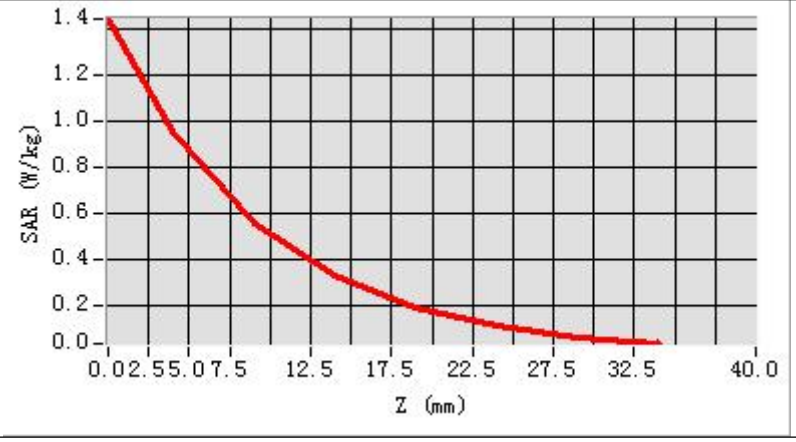
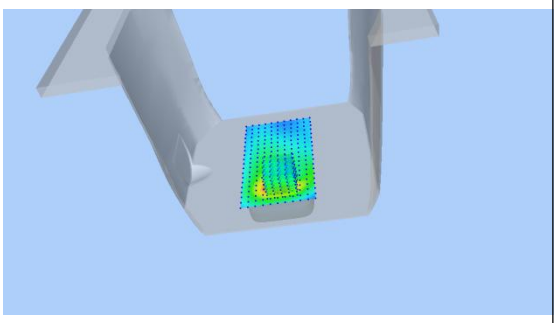
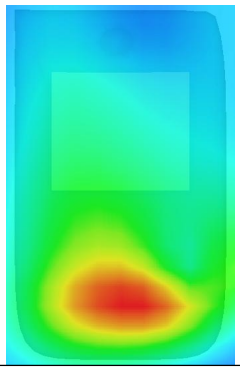
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4451	0.9565	0.5587	0.3307	0.1933	0.1115	0.0649



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**

WCDMA Band Ⅴ Mid-Touch-Right (RMC)

DUT: Smartphone; Type: VORTEX HD68

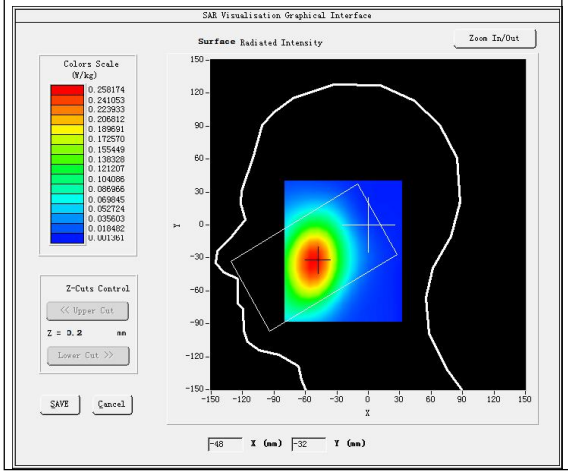
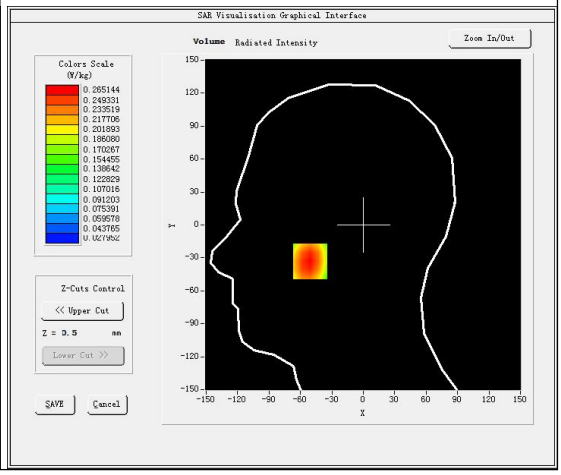
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=2.02;
Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ=0.94 mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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

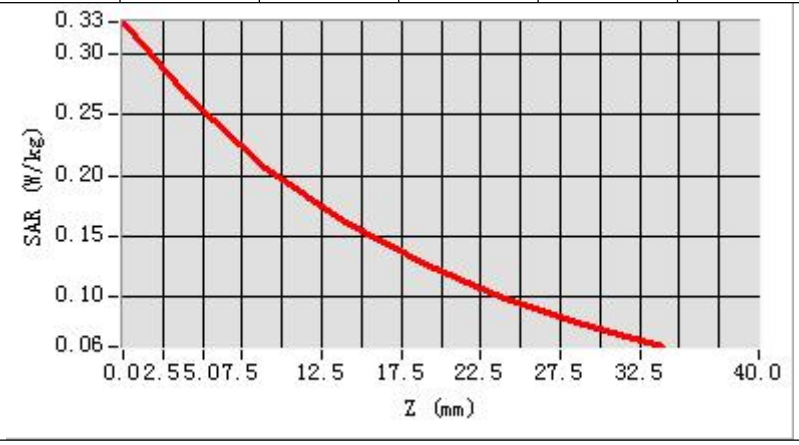
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

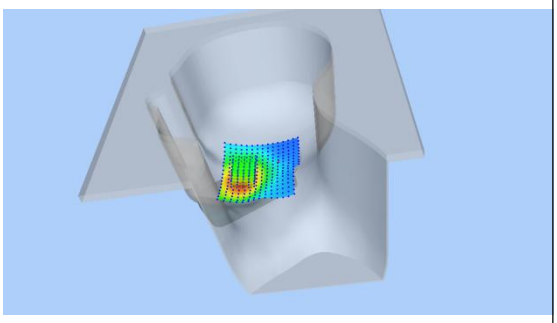
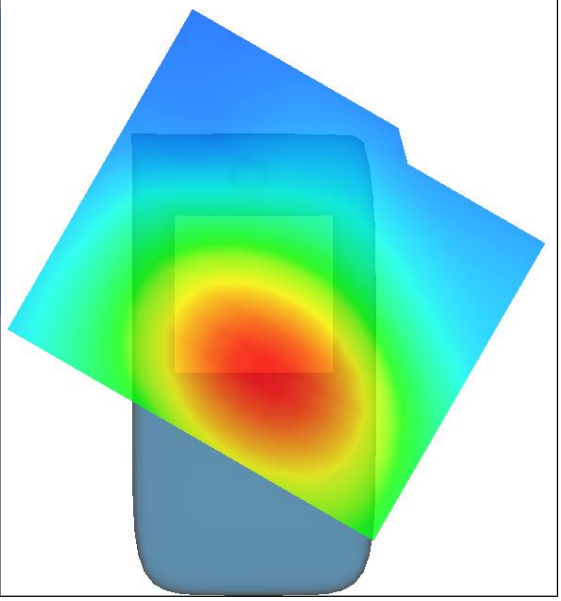
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-33.00
SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.187303
SAR 1g (W/Kg)	0.256283

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3261	0.2651	0.2055	0.1614	0.1260	0.0988	0.0770



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**

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

DUT: Smartphone; Type: VORTEX HD68

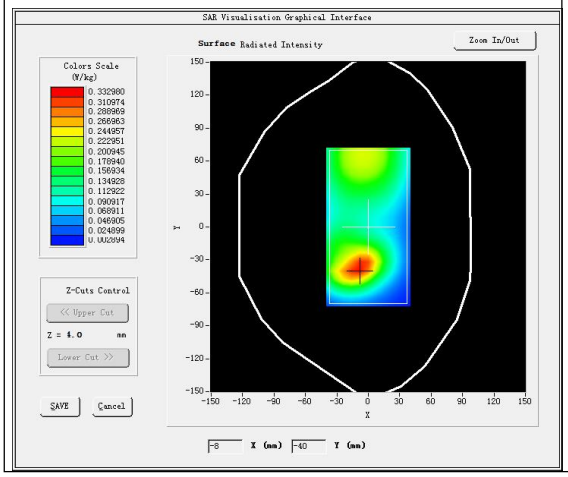
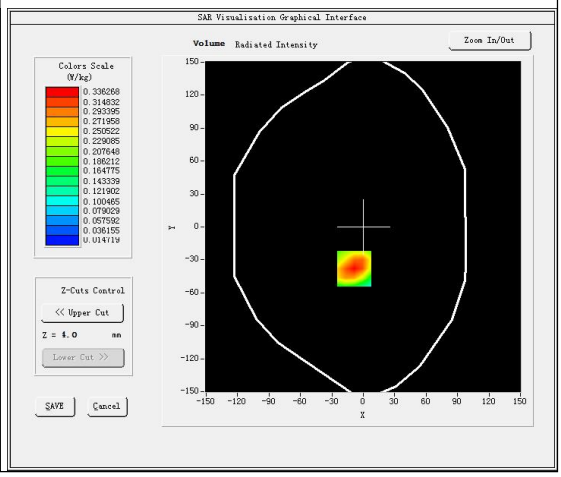
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ= 0.94 mho/m; εr = 40.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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;

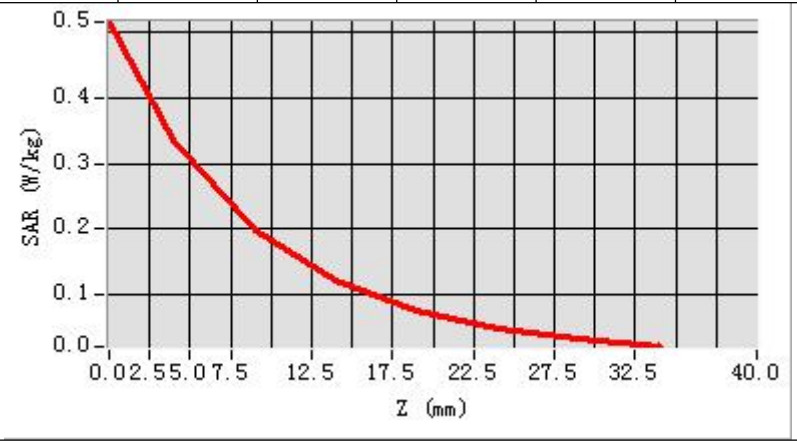
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

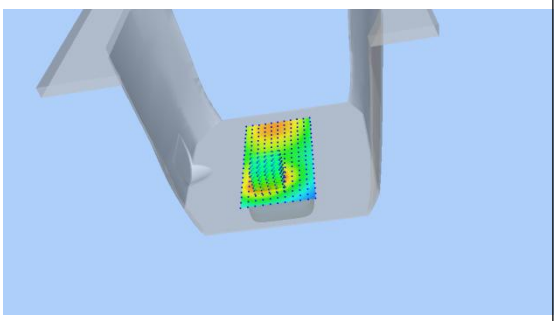
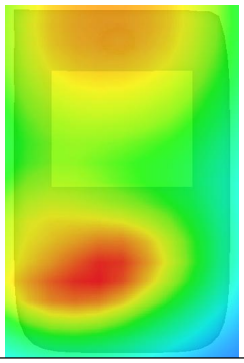
SURFACE SAR	VOLUME SAR
	

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

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5145	0.3363	0.1972	0.1227	0.0780	0.0504	0.0330



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 08, 2024**
LTE Band 2 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

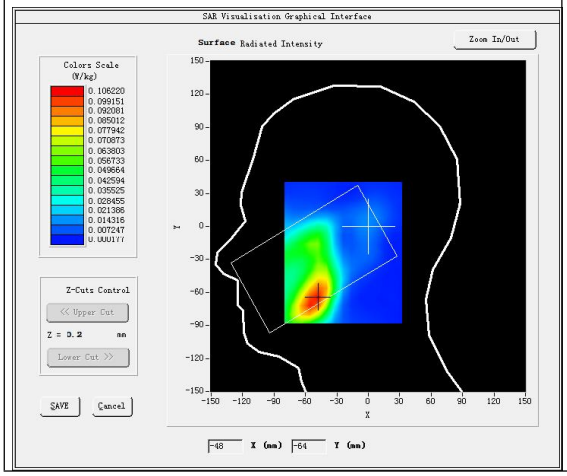
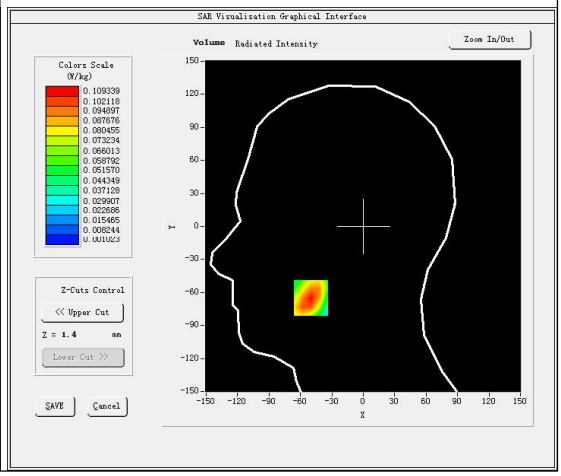
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15; Frequency:1880MHz; Medium parameters used: f =1900 MHz; σ= 1.31 mho/m; εr =40.69; ρ= 1000 kg/m³ ; Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.4

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;

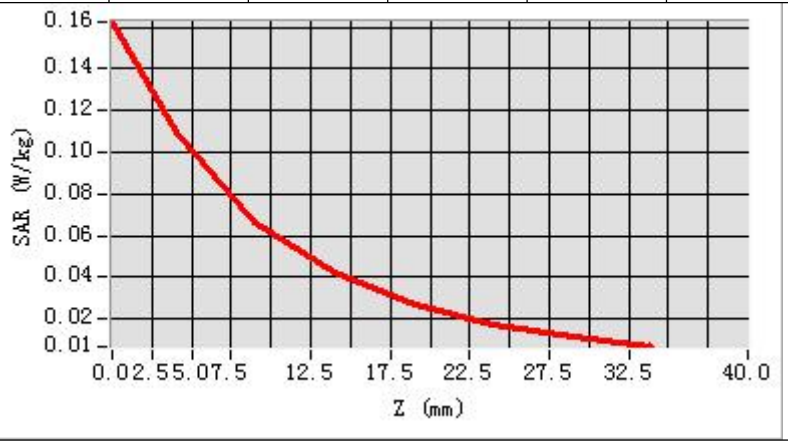
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

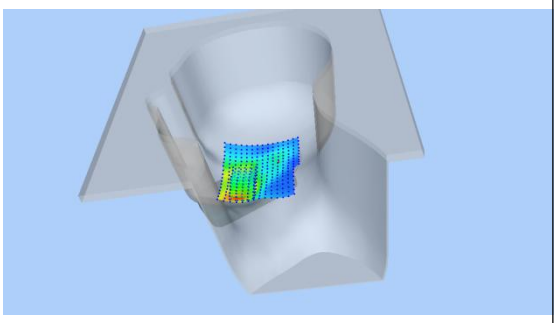
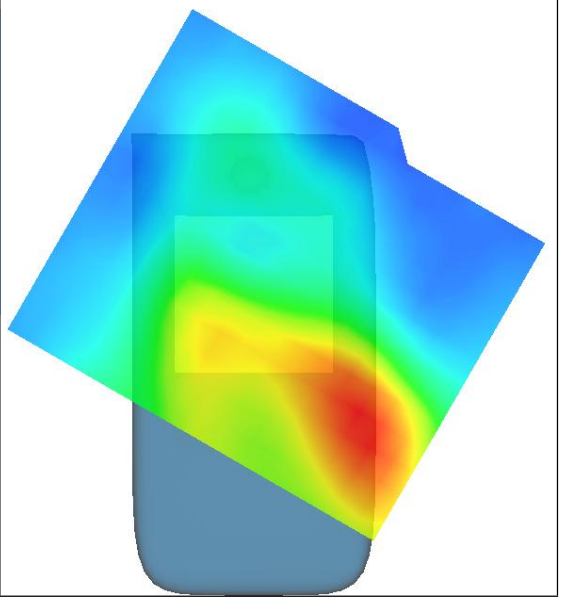
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.059407
SAR 1g (W/Kg)	0.104477

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1626	0.1093	0.0664	0.0423	0.0271	0.0175	0.0113



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 08, 2024**
LTE Band 2 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

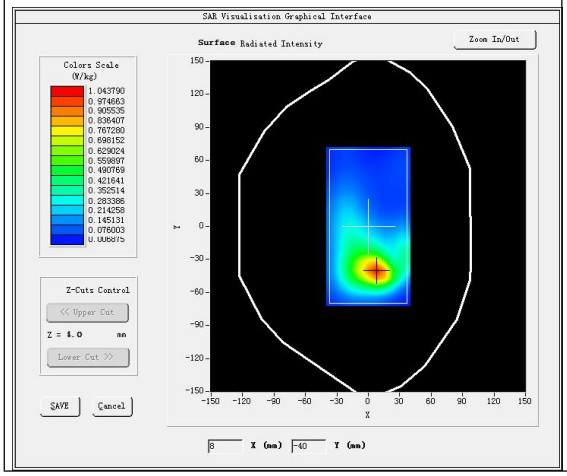
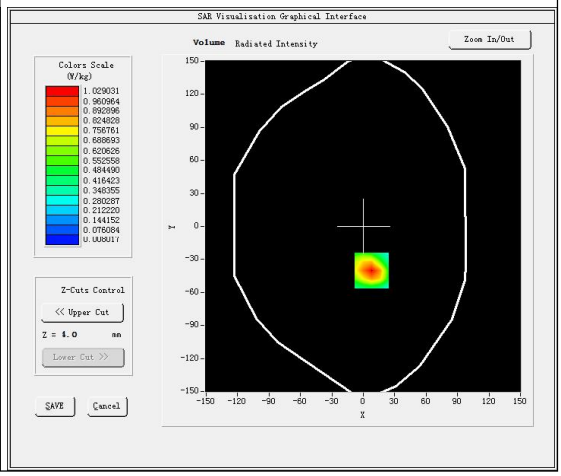
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15; Frequency:1880MHz; Medium parameters used: f = 1900 MHz; σ= 1.31 mho/m; εr =40.69; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.4

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=5m;

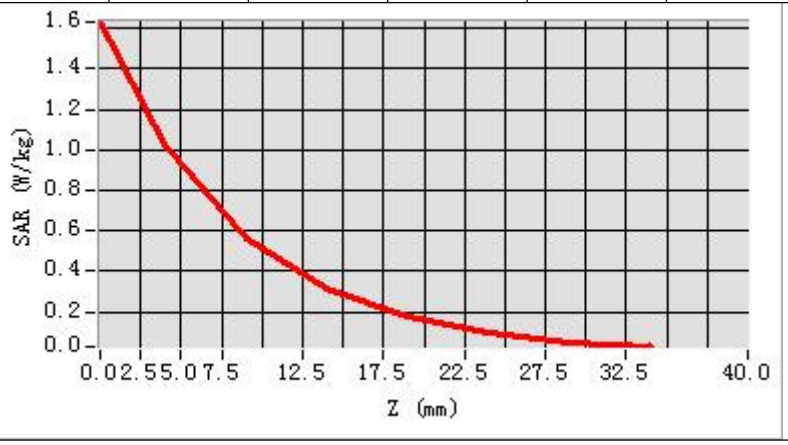
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

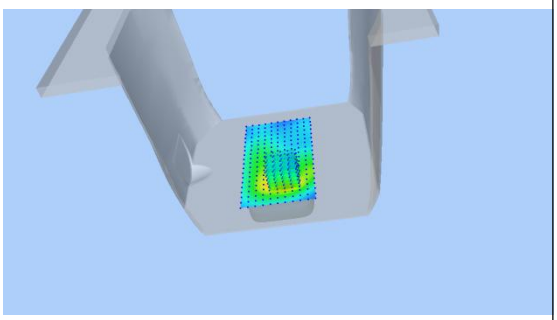
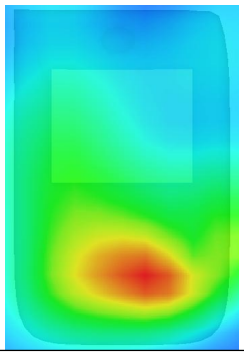
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.501550
SAR 1g (W/Kg)	0.969256

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
	

Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
LTE Band 4 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

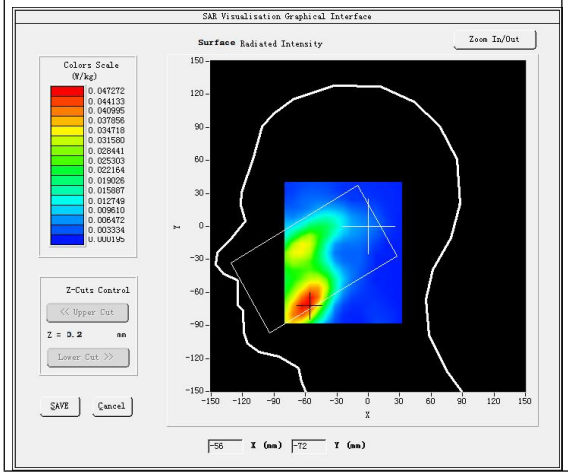
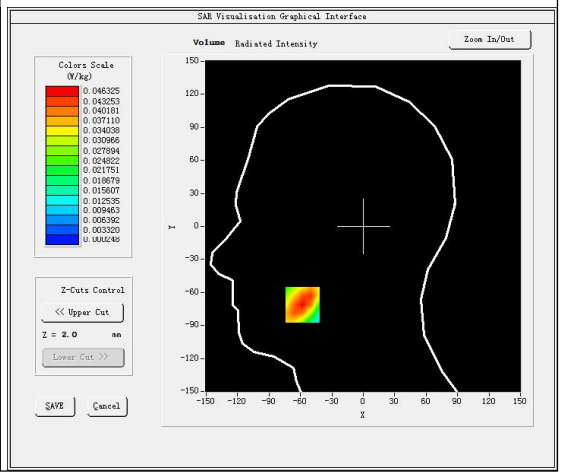
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17; Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ= 1.28 mho/m; εr =41.39; ρ= 1000 kg/m³ ; Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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;

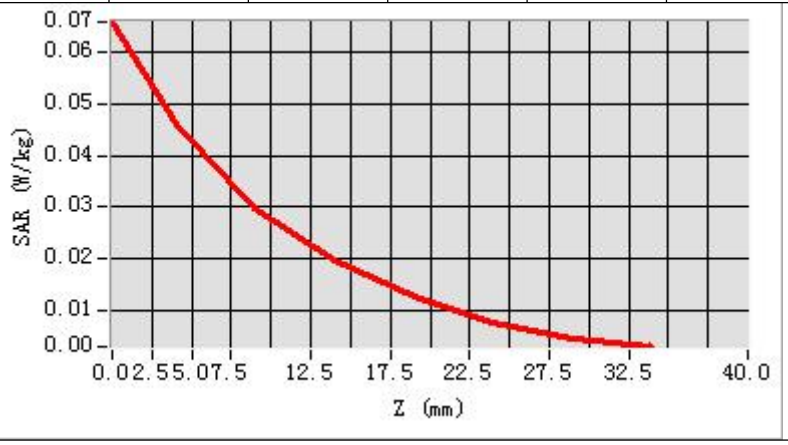
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

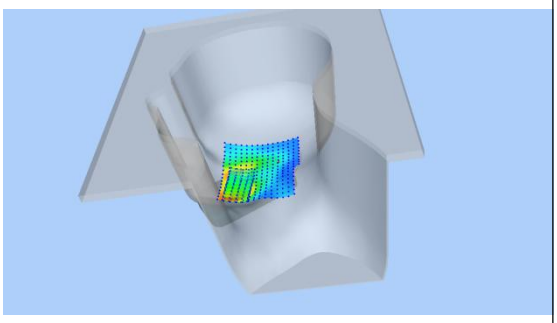
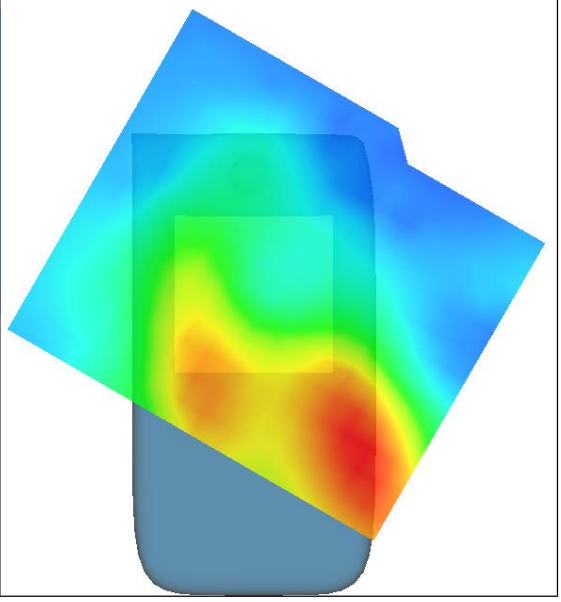
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.026279
SAR 1g (W/Kg)	0.044036

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0660	0.0463	0.0298	0.0197	0.0125	0.0077	0.0043



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
LTE Band 4 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

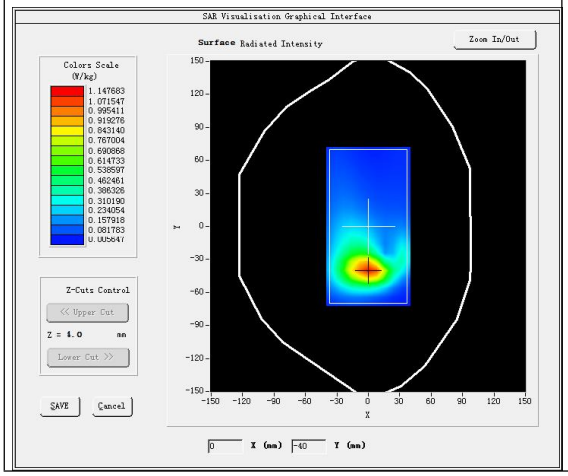
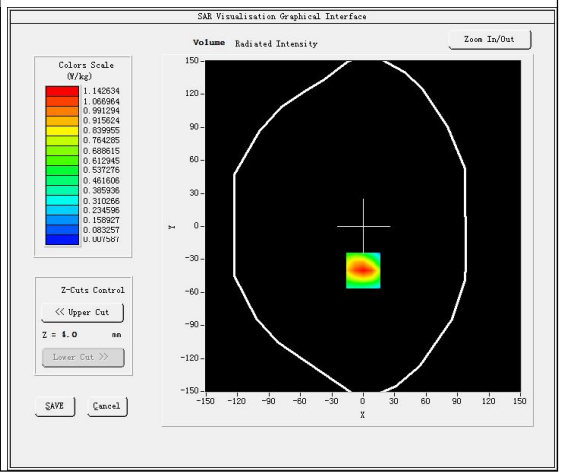
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.28 mho/m; εr =41.39; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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=5m;

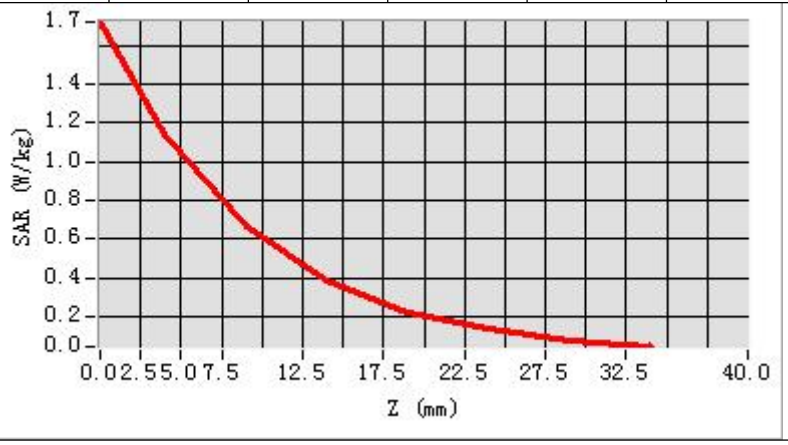
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

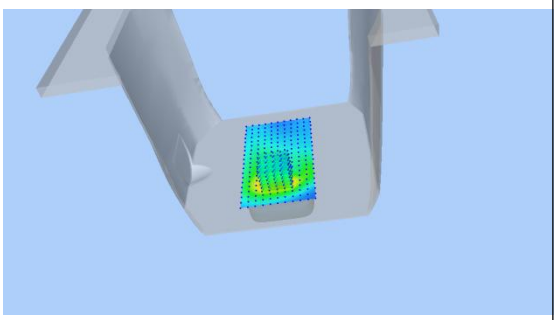
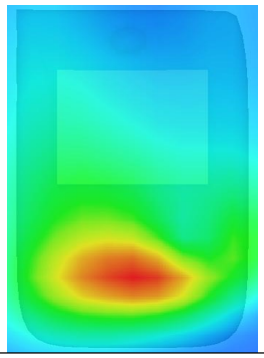
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.5362633
SAR 1g (W/Kg)	0.9863121

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
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 5 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

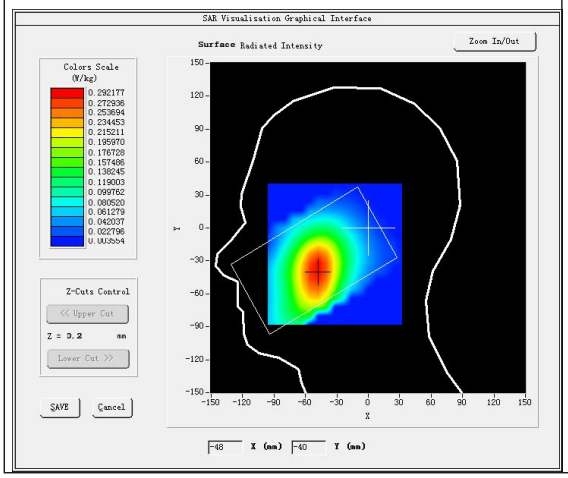
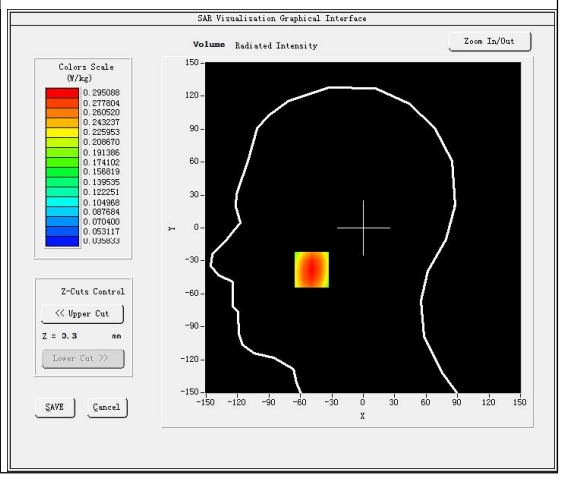
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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;

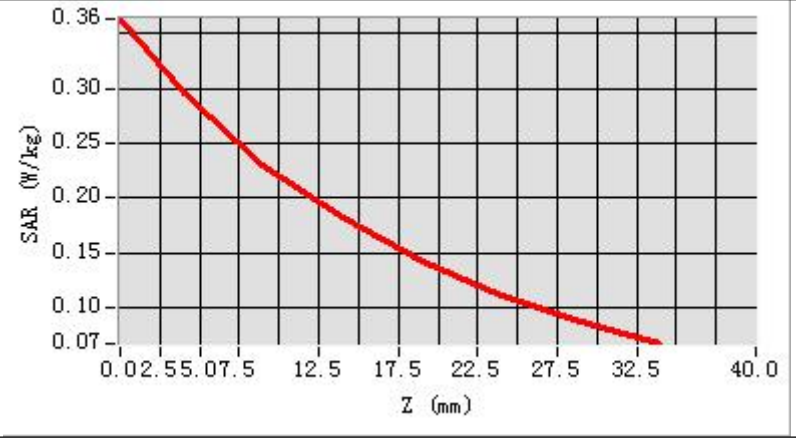
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

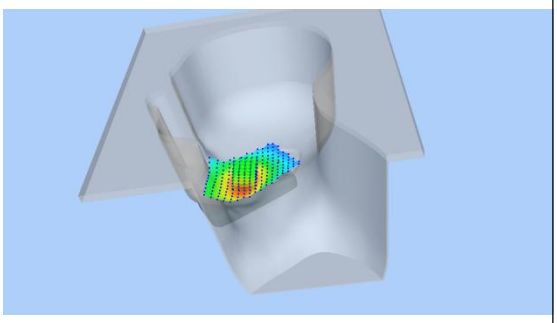
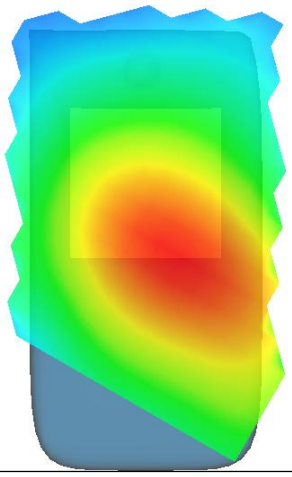
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.209051
SAR 1g (W/Kg)	0.285024

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3629	0.2951	0.2299	0.1825	0.1429	0.1120	0.0869



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

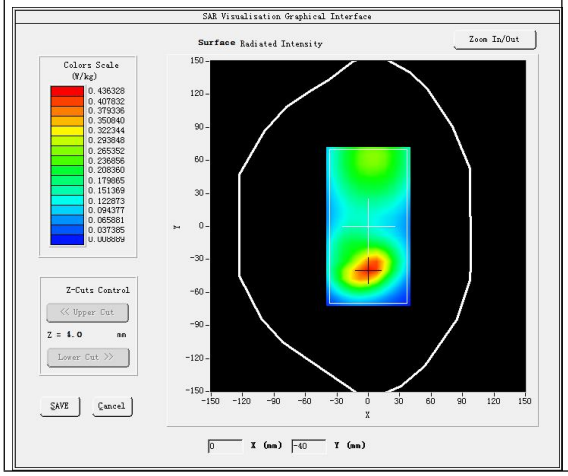
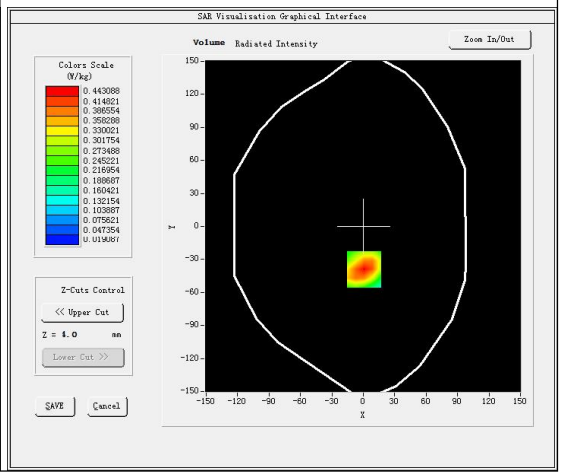
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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=5m;

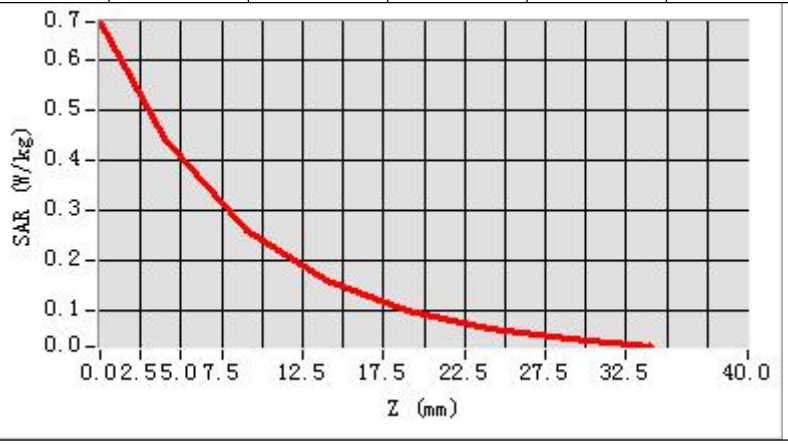
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

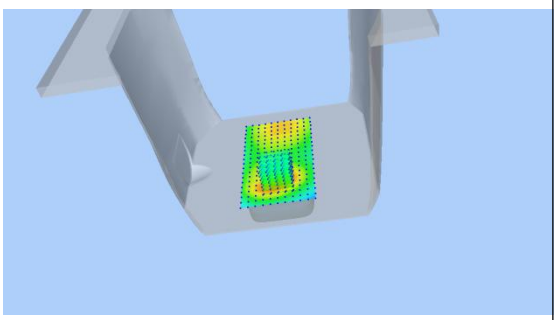
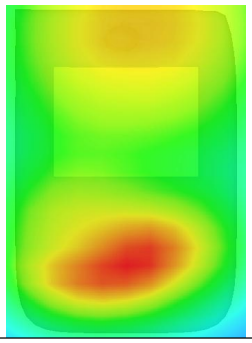
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.240857
SAR 1g (W/Kg)	0.421796

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
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 12 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

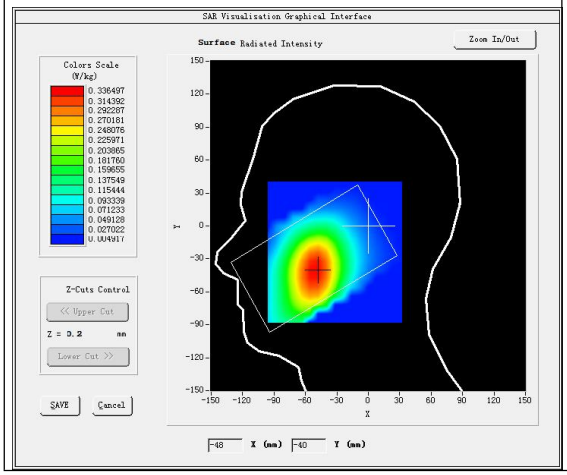
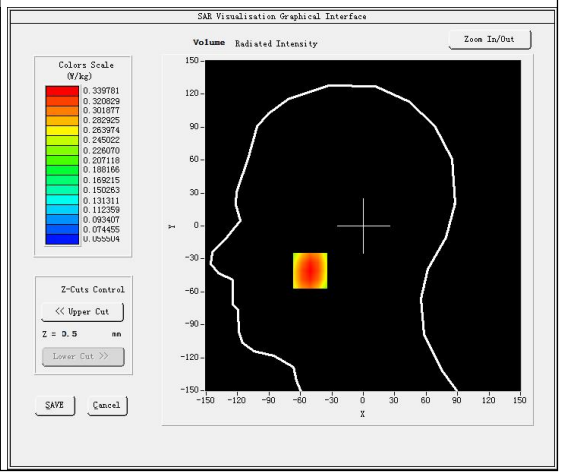
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.85 mho/m; εr =44.36; ρ= 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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;

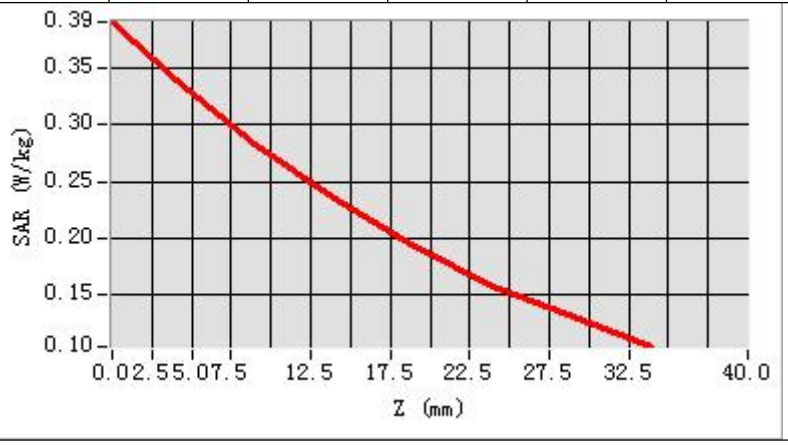
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

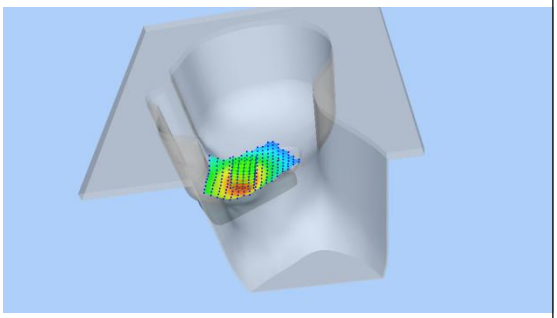
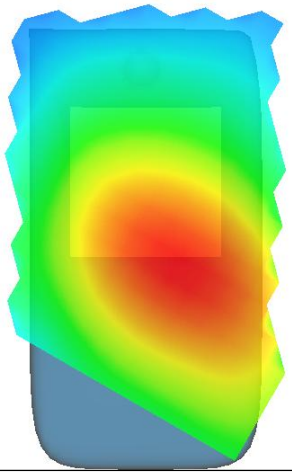
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.260786
SAR 1g (W/Kg)	0.335782

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3906	0.3398	0.2821	0.2346	0.1931	0.1581	0.1310



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 12 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

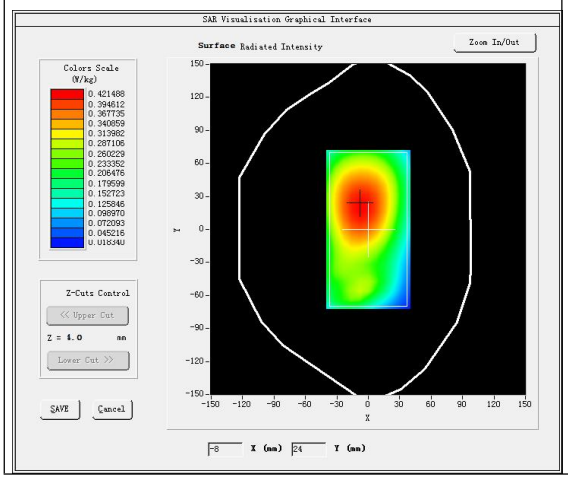
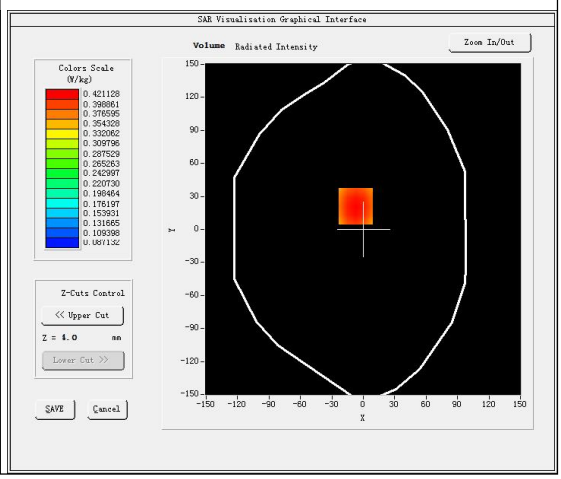
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.85 mho/m; εr =44.36; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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=5m;

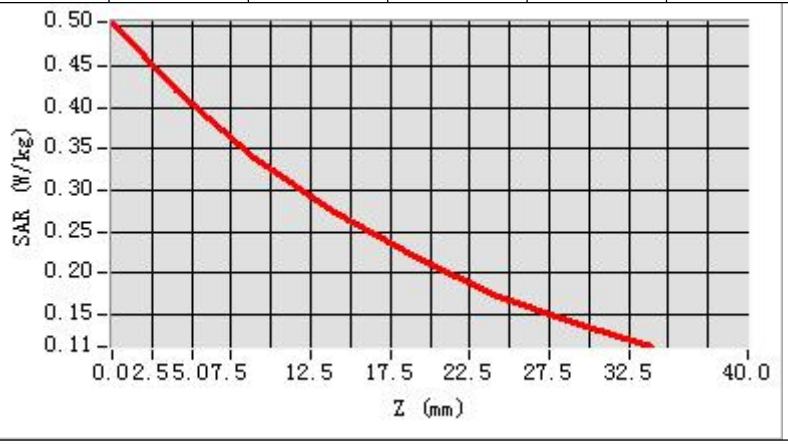
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

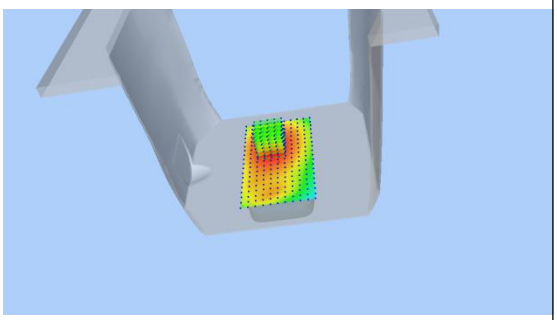
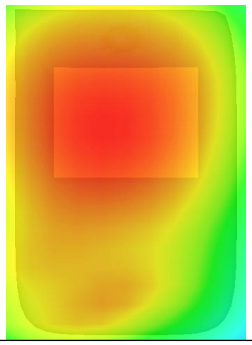
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.323685
SAR 1g (W/Kg)	0.419378

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5041	0.4211	0.3388	0.2732	0.2210	0.1746	0.1393



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 13 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

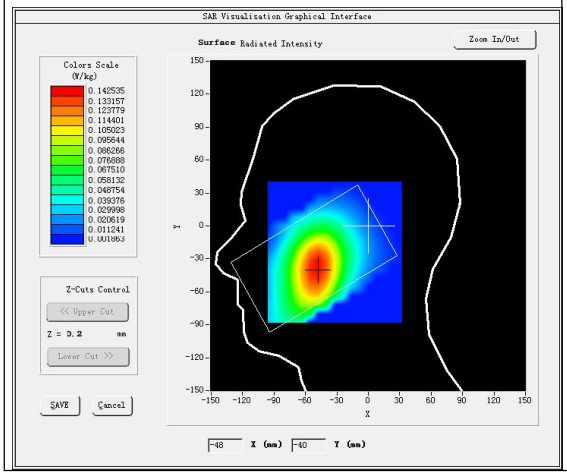
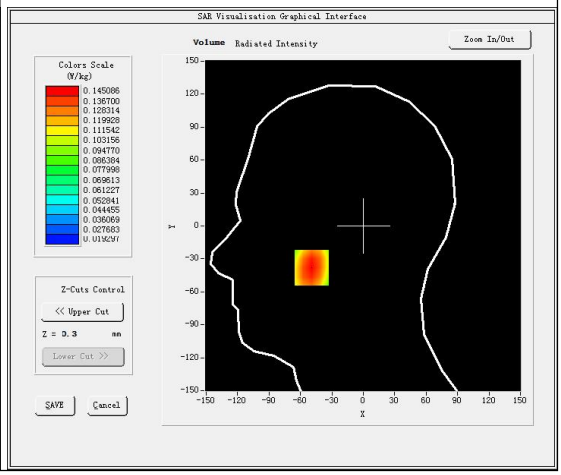
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95
Frequency: 782 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =41.63; ρ= 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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;

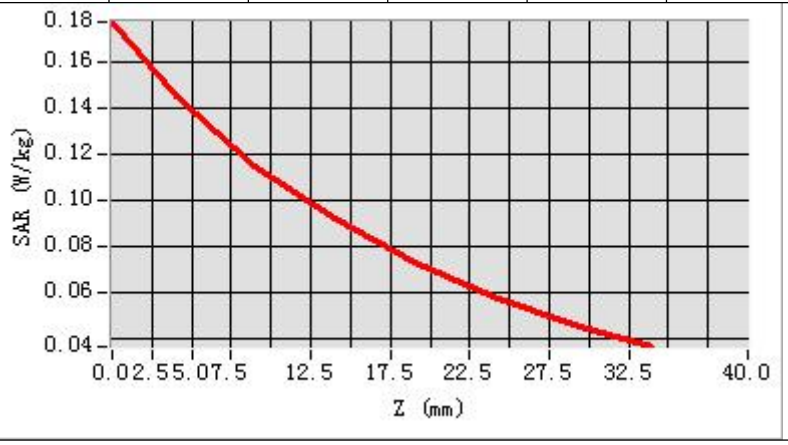
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 13
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

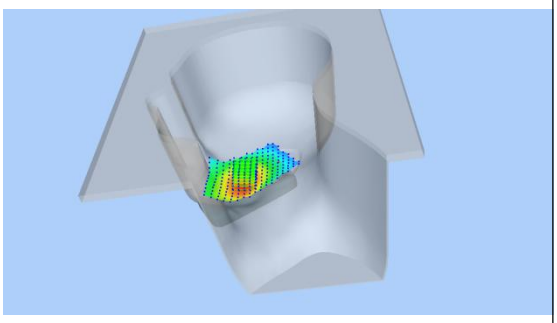
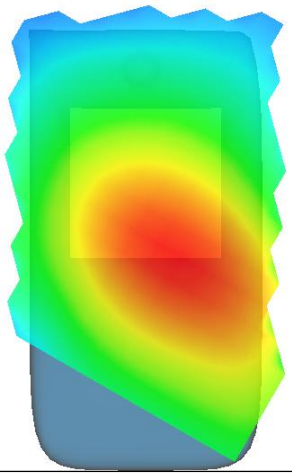
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.104268
SAR 1g (W/Kg)	0.140282

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1769	0.1451	0.1144	0.0918	0.0729	0.0583	0.0460



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 13 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

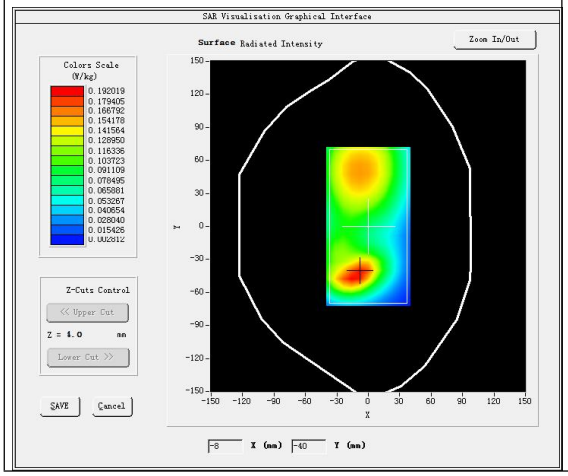
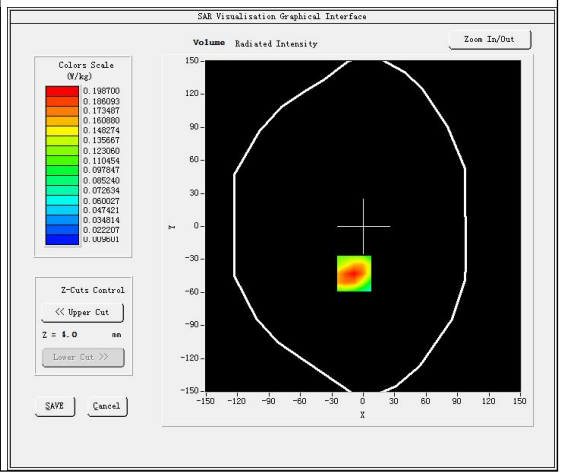
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 782 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =41.63; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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=5m;

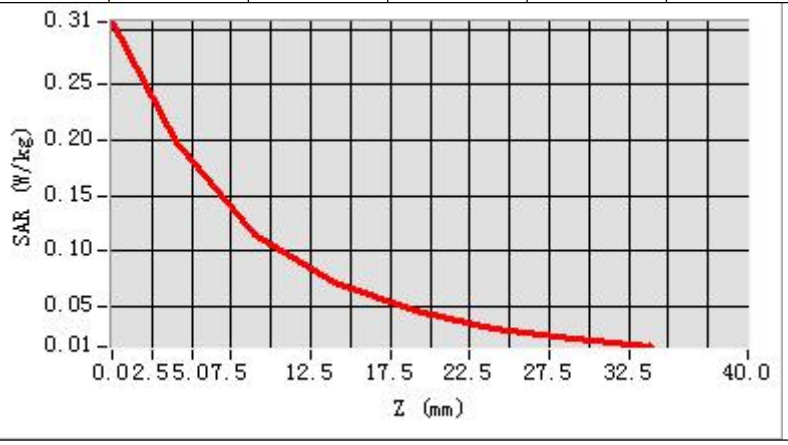
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 13
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

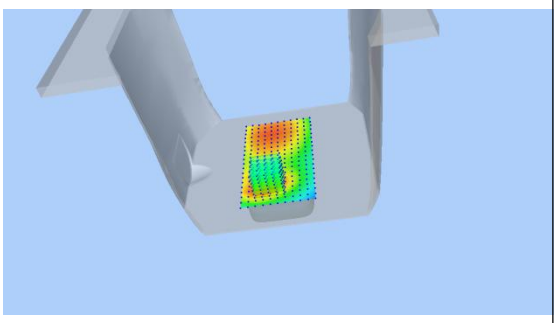
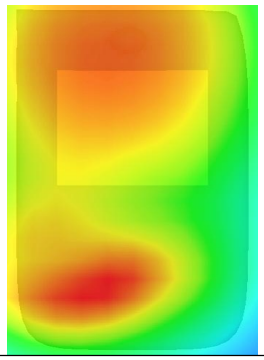
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.107850
SAR 1g (W/Kg)	0.189534

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3068	0.1987	0.1152	0.0706	0.0452	0.0295	0.0197



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 17 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

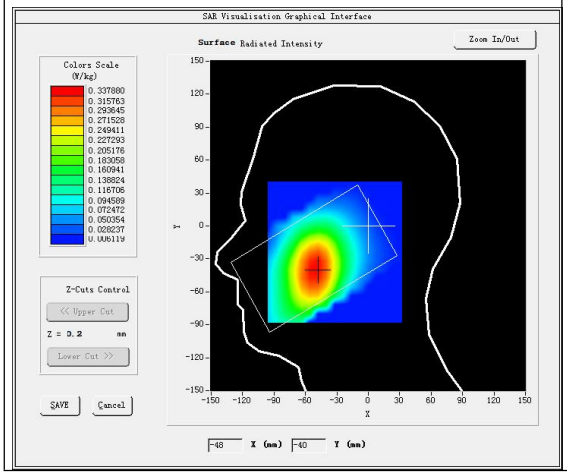
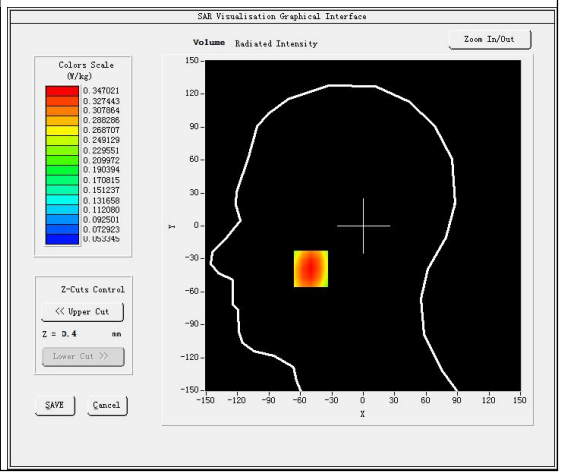
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=1.95
Frequency: 710 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =43.22; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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;

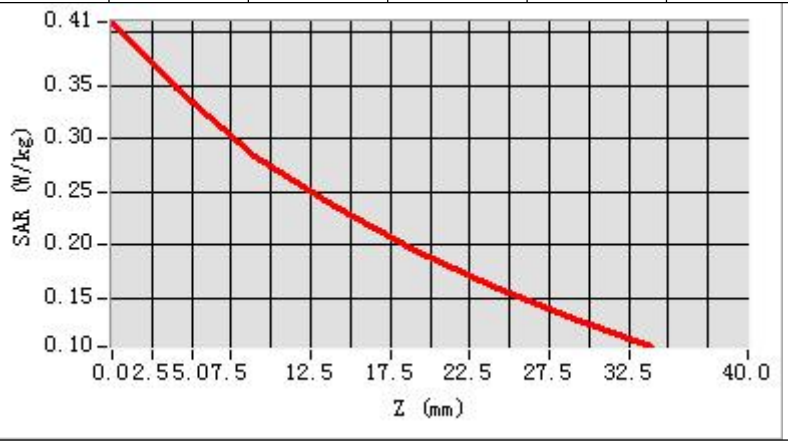
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

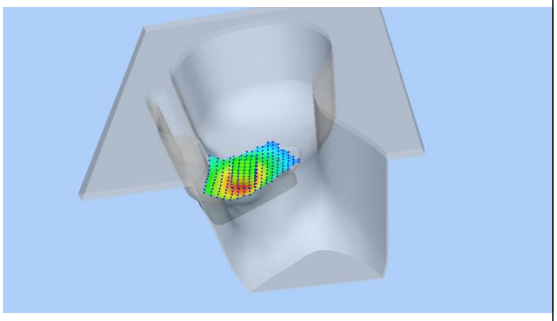
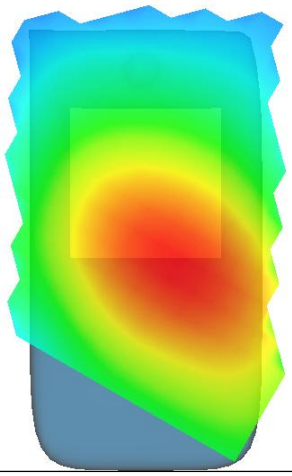
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.265018
SAR 1g (W/Kg)	0.343793

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4102	0.3470	0.2842	0.2357	0.1947	0.1607	0.1308



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 17 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

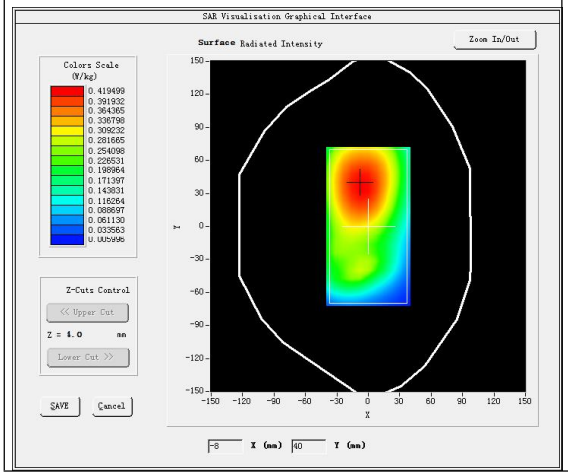
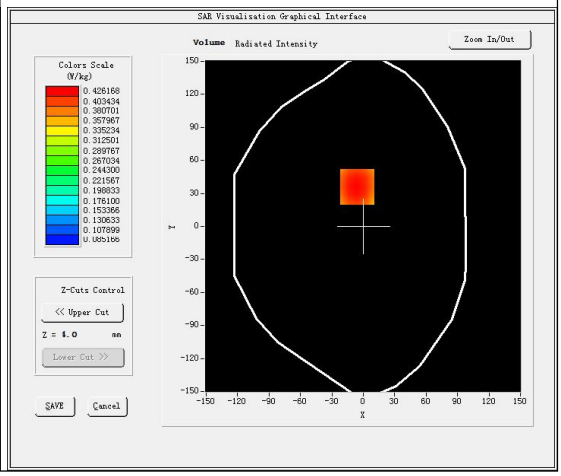
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 710 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =43.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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=5m;

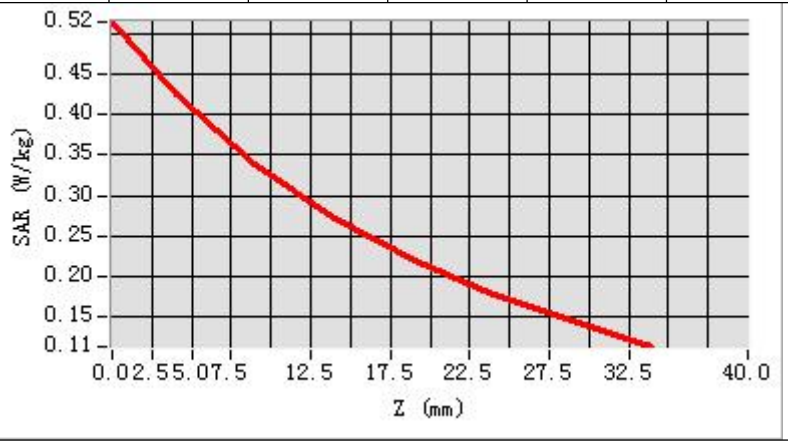
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 17
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

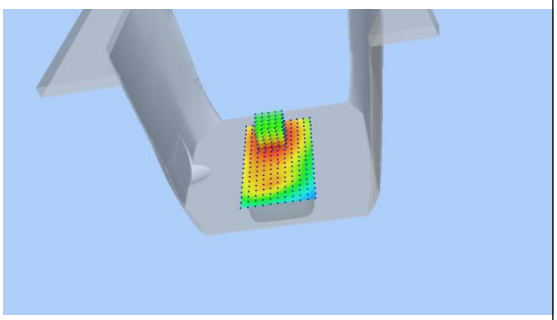
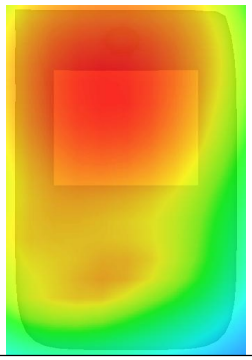
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.324893
SAR 1g (W/Kg)	0.424548

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
	

Test Laboratory: AGC Lab **Date: Jan. 08, 2024**
LTE Band 25 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

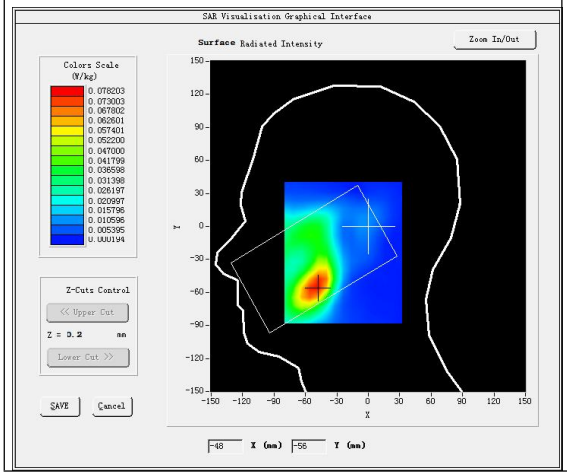
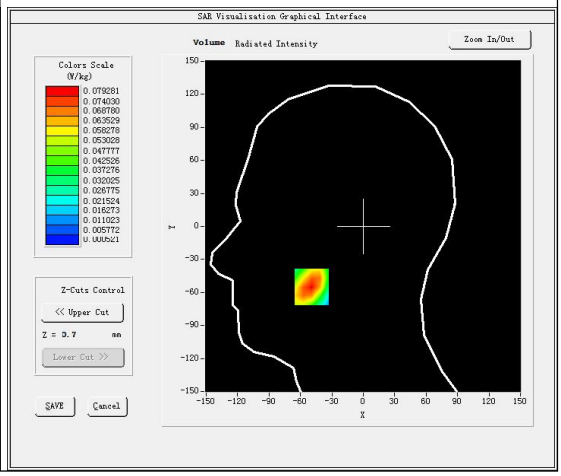
Communication System: LTE; Communication System Band: LTE Band 25; Duty Cycle:1:1; Conv.F=2.15; Frequency:1882.5MHz; Medium parameters used: f =1900 MHz; σ= 1.34 mho/m; εr =40.13; ρ= 1000 kg/m³ ; Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.4

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;

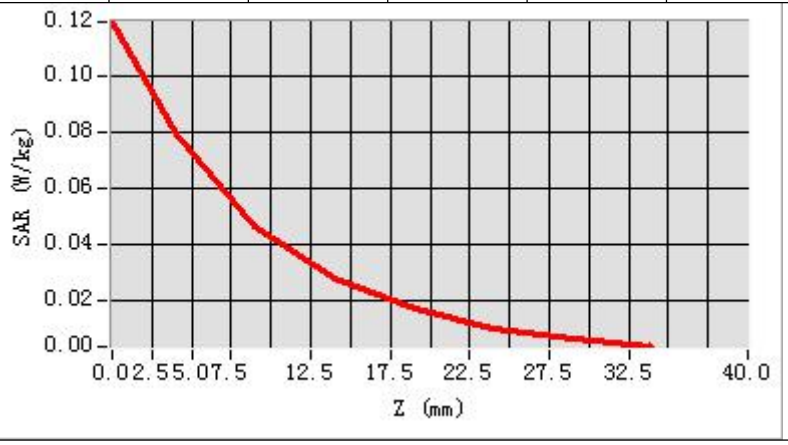
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 25
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

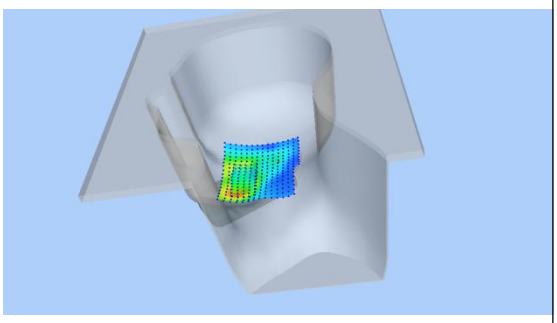
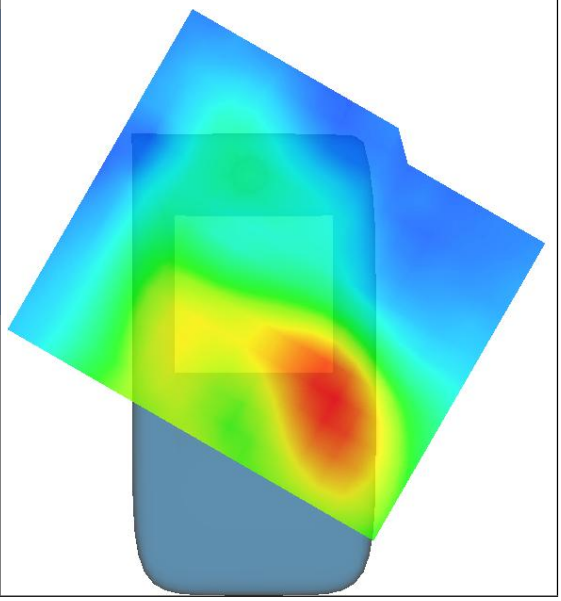
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.042408
SAR 1g (W/Kg)	0.075472

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1191	0.0793	0.0469	0.0284	0.0172	0.0106	0.0065



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 08, 2024**
LTE Band 25 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

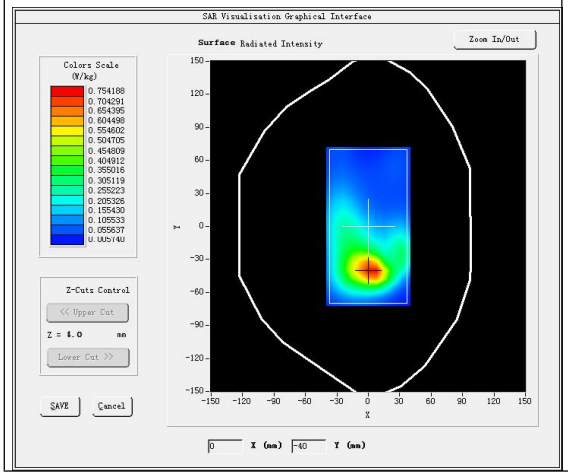
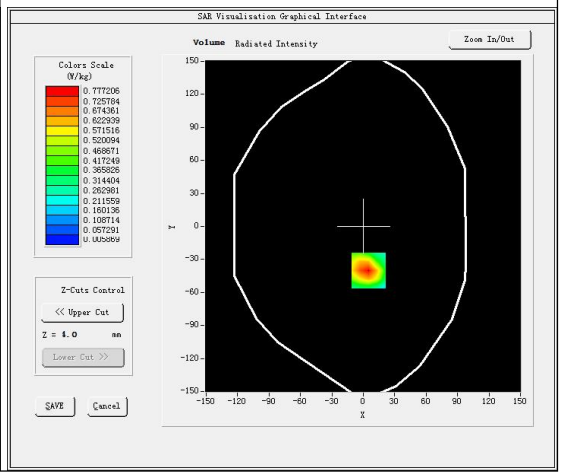
Communication System: LTE; Communication System Band: LTE Band 25; Duty Cycle:1:1; Conv.F=2.15; Frequency:1882.5MHz; Medium parameters used: f = 1900 MHz; σ= 1.34 mho/m; εr =40.13; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.4

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=5m;

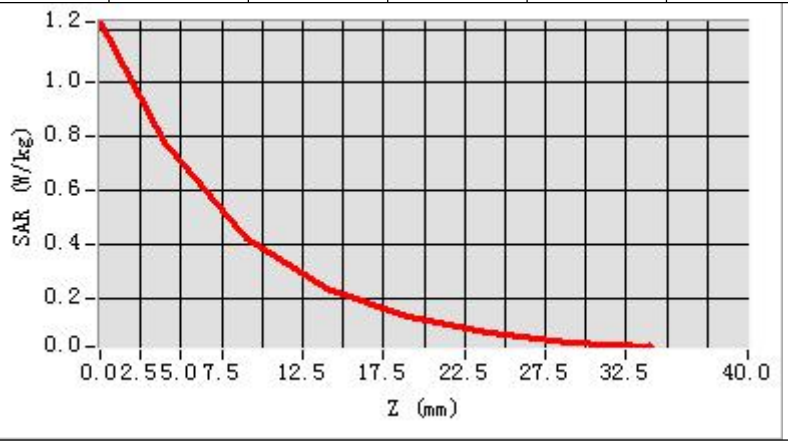
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 25
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

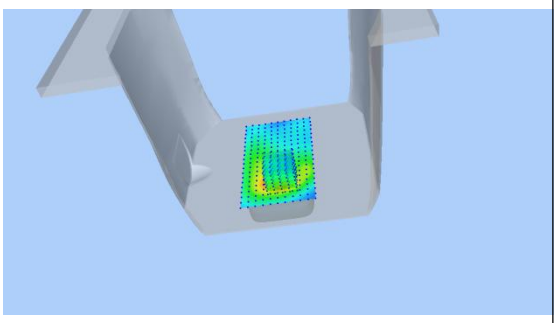
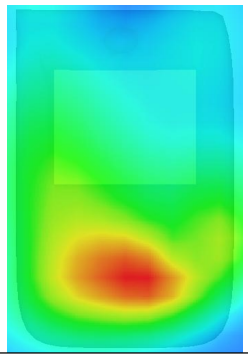
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.383693
SAR 1g (W/Kg)	0.730474

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2269	0.7772	0.4253	0.2380	0.1306	0.0714	0.0388



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 26A Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

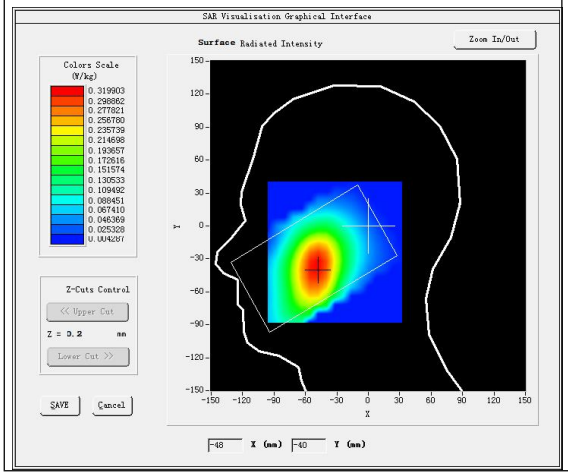
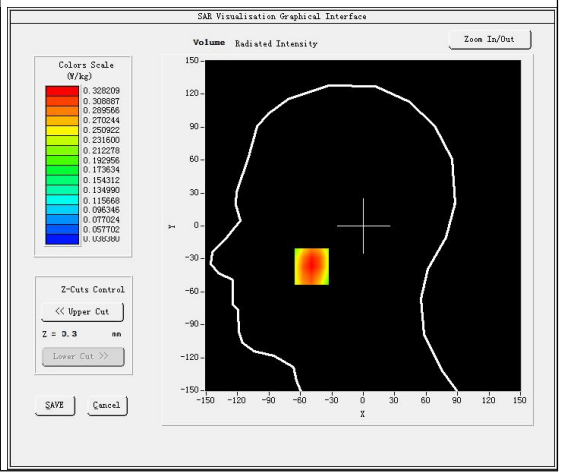
Communication System: LTE; Communication System Band: LTE Band 26A; Duty Cycle:1:1; Conv.F=2.02
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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;

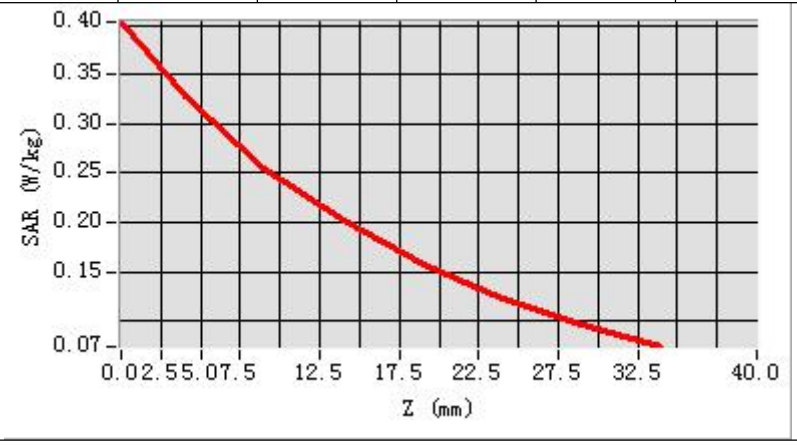
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26A
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

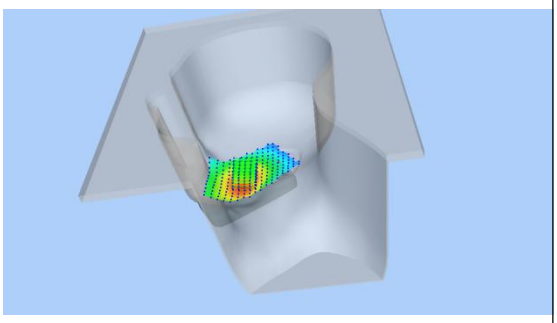
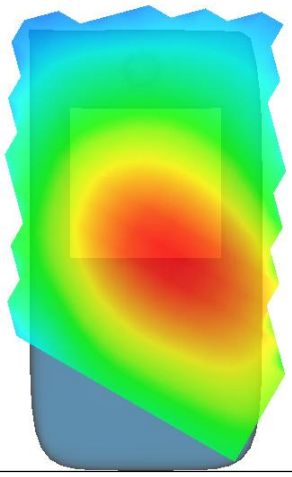
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.231321
SAR 1g (W/Kg)	0.318744

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4031	0.3282	0.2549	0.2013	0.1570	0.1229	0.0960



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 26A Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

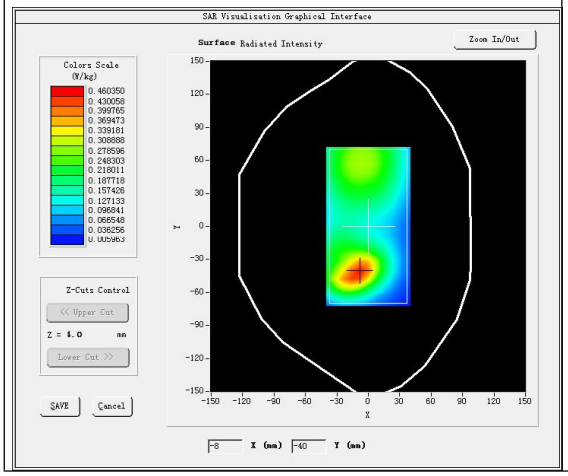
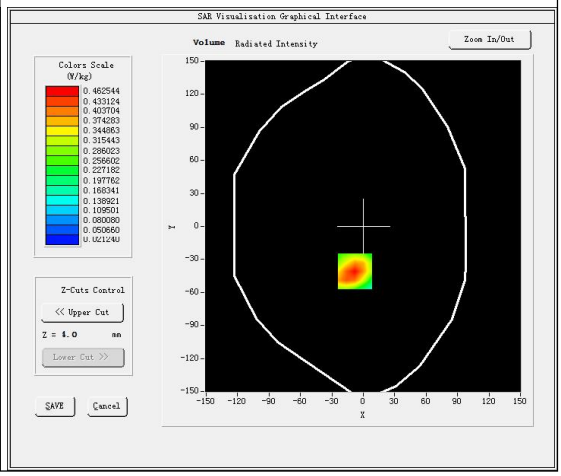
Communication System: LTE; Communication System Band: LTE Band 26A; Duty Cycle:1:1; Conv.F=2.02
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =40.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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=5m;

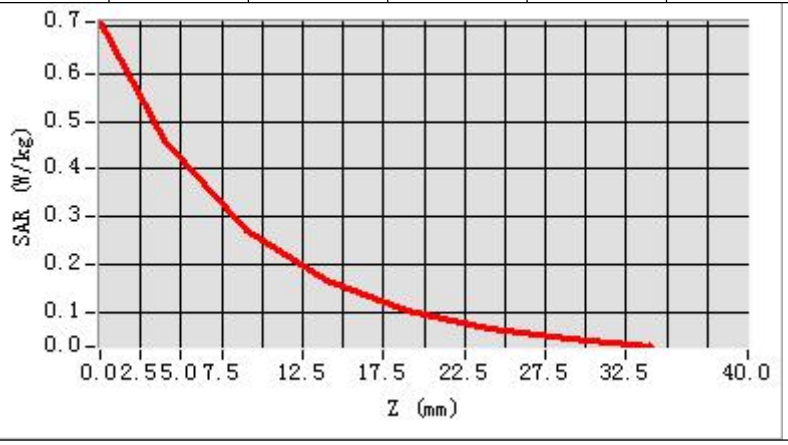
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 26A
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

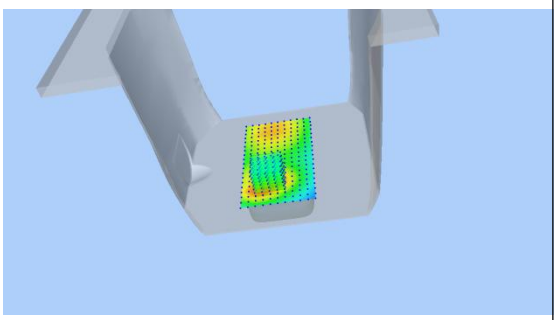
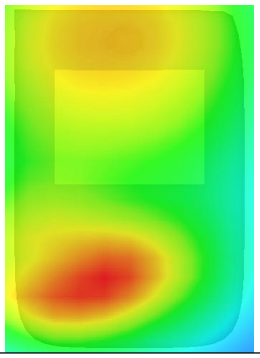
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.251779
SAR 1g (W/Kg)	0.441403

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7071	0.4625	0.2711	0.1674	0.1064	0.0687	0.0453



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 26B Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

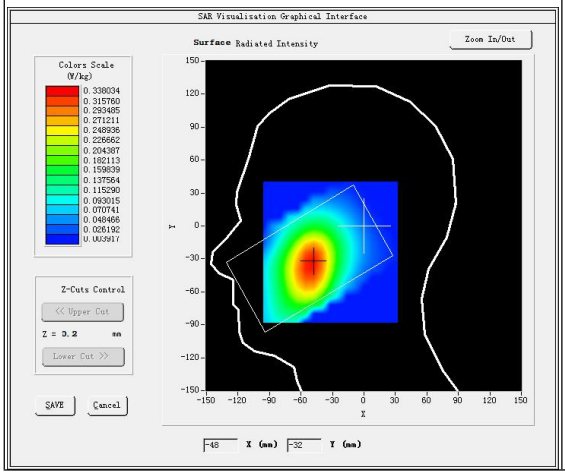
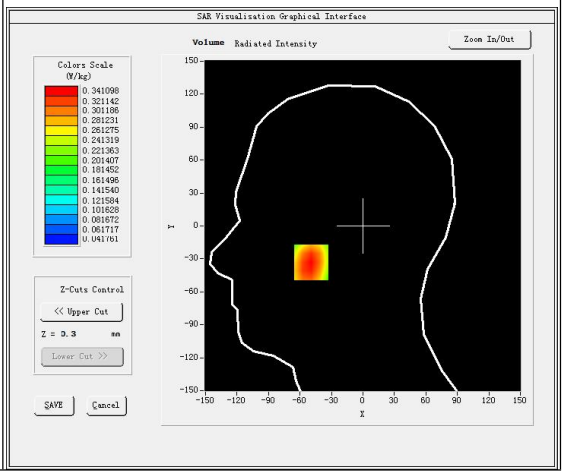
Communication System: LTE; Communication System Band: LTE Band 26B; Duty Cycle:1:1; Conv.F=2.02
Frequency: 819 MHz; Medium parameters used: f = 835 MHz; σ=0.89 mho/m; εr =43.26; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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;

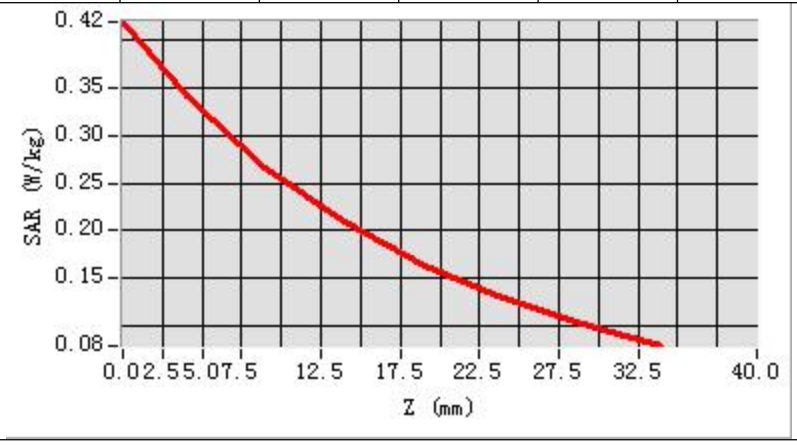
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26B
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

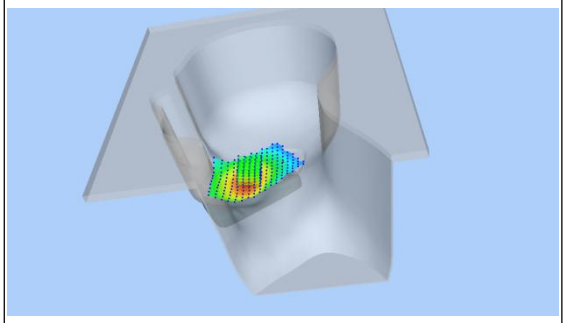
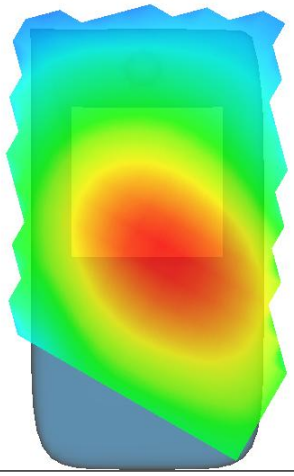
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.241754
SAR 1g (W/Kg)	0.329803

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4190	0.3411	0.2653	0.2093	0.1640	0.1292	0.1013



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 03, 2024**
LTE Band 26B Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

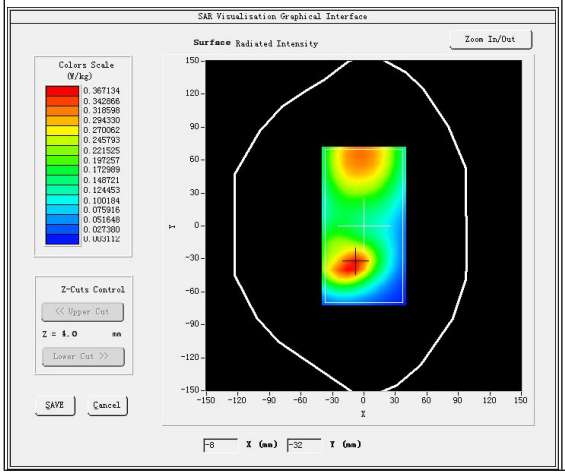
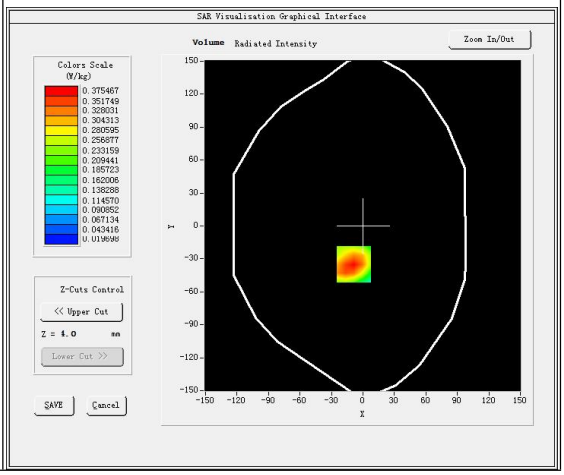
Communication System: LTE; Communication System Band: LTE Band 26B; Duty Cycle:1:1; Conv.F=2.02
Frequency:819 MHz; Medium parameters used: f = 835 MHz; σ=0.89 mho/m; εr =43.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.1, Liquid temperature (℃): 20.8

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=5m;

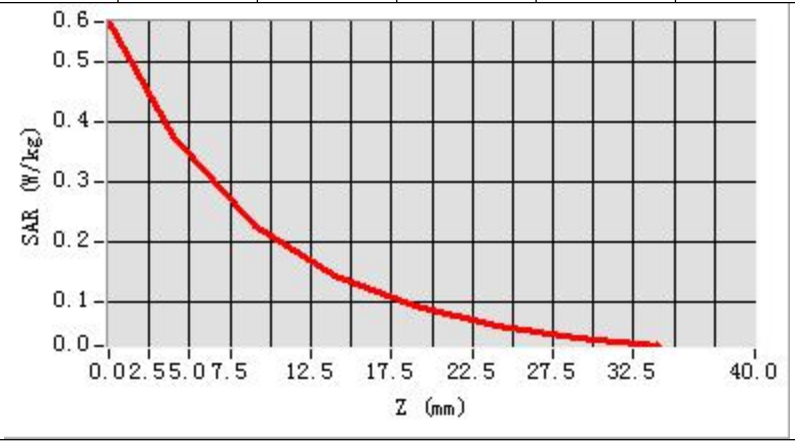
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 26B
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

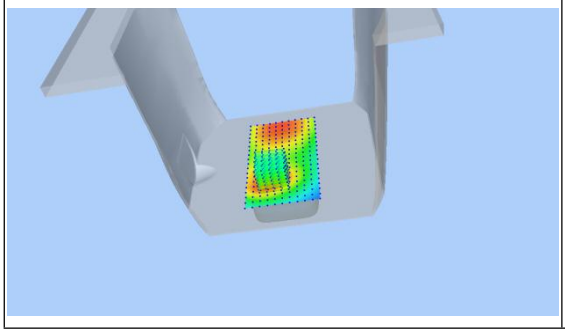
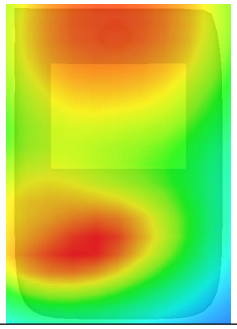
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.211342
SAR 1g (W/Kg)	0.360327

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5648	0.3755	0.2255	0.1420	0.0923	0.0606	0.0407



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 05, 2024**
LTE Band 41 Mid-Touch-Right (1RB#0)
DUT: Smartphone; Type: VORTEX HD68

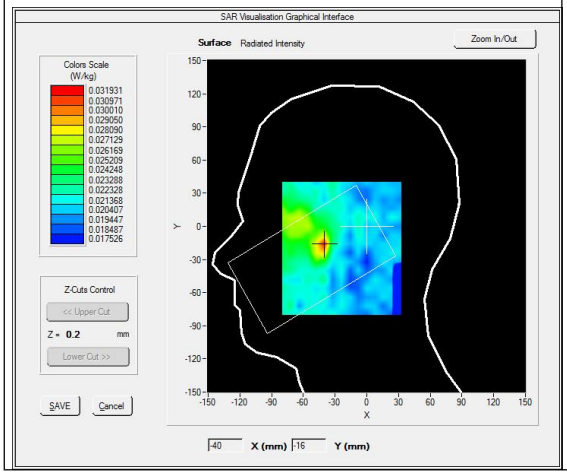
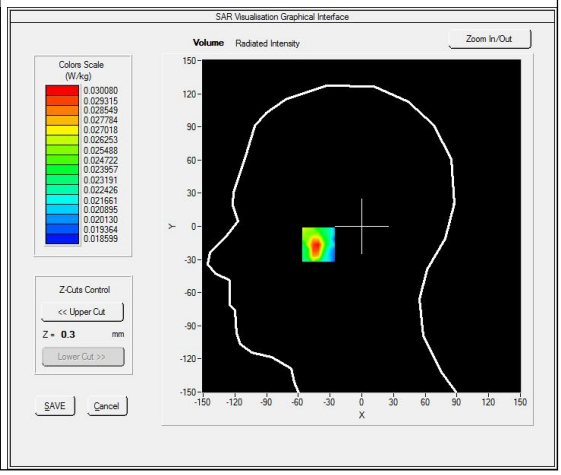
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.13
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.96 mho/m; εr =39.66; ρ= 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

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

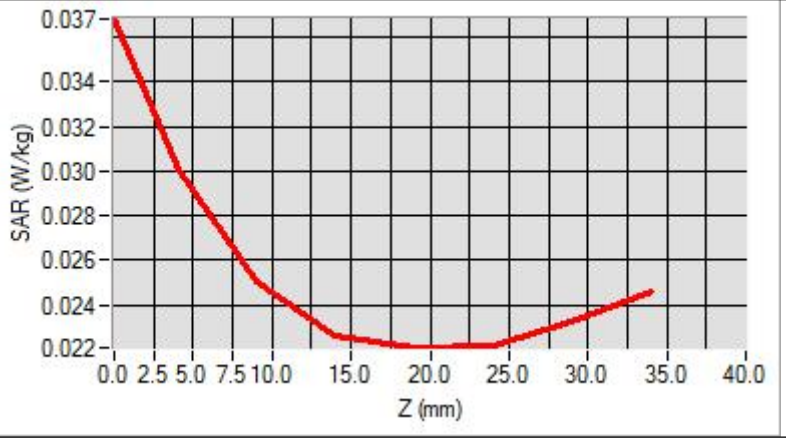
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)

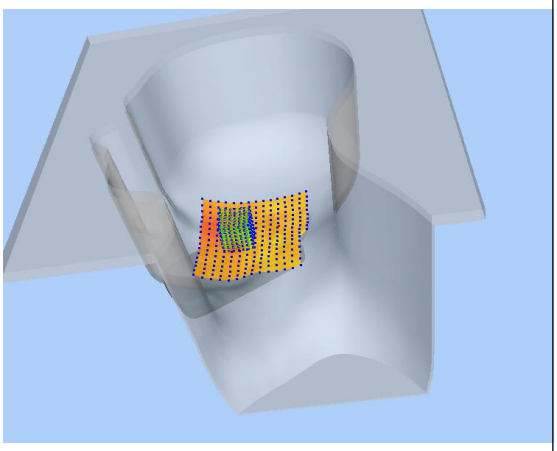
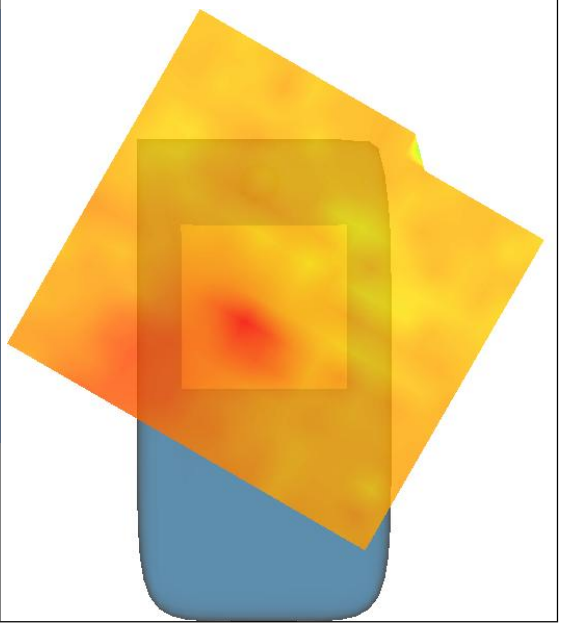
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.023762
SAR 1g (W/Kg)	0.028203

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0368	0.0301	0.0250	0.0227	0.0221	0.0221	0.0232



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 05, 2024**
LTE Band 41 Mid-Body-Back(1RB#0)
DUT: Smartphone; Type: VORTEX HD68

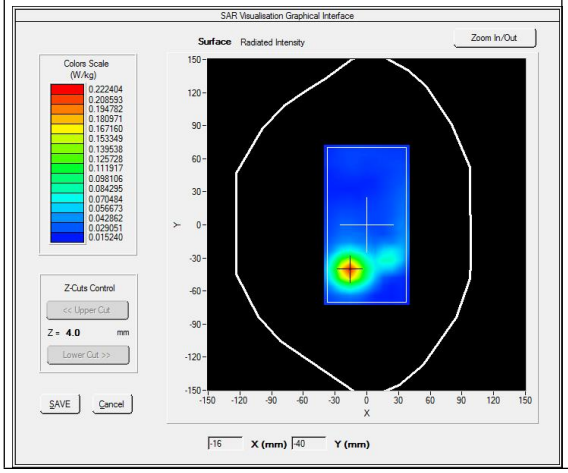
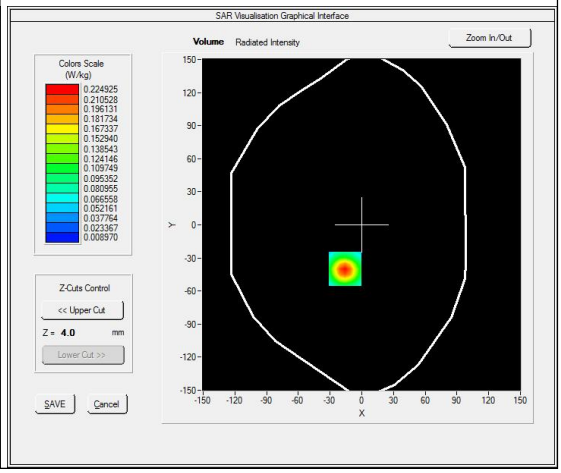
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.13
Frequency: 2593MHz; Medium parameters used: f =2600 MHz; σ=1.96 mho/m; εr =39.66; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

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

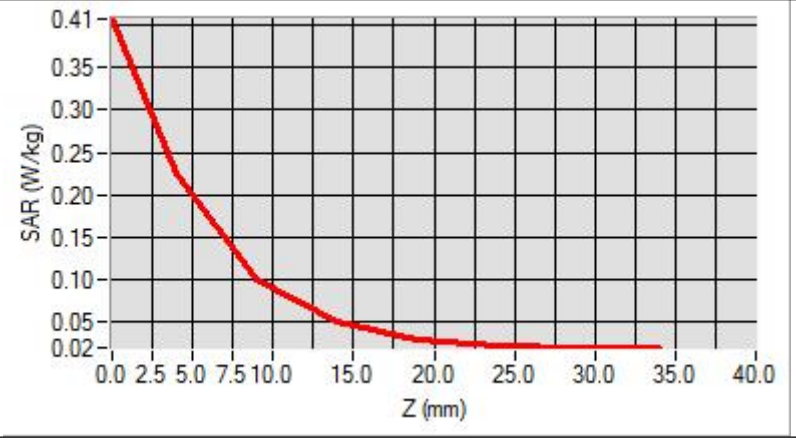
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)

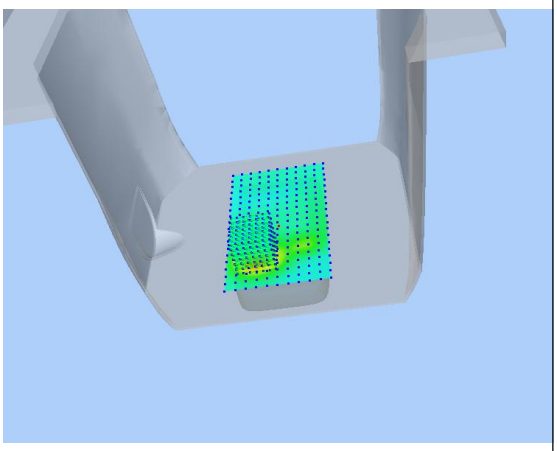
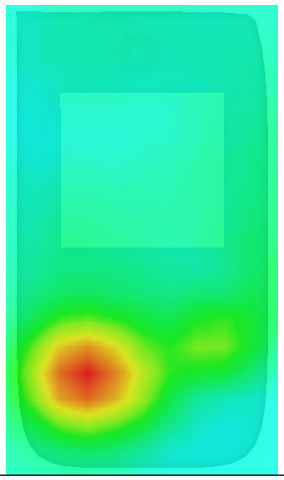
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.095951
SAR 1g (W/Kg)	0.207246

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4075	0.2249	0.0999	0.0496	0.0302	0.0234	0.0208



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
LTE Band 66 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

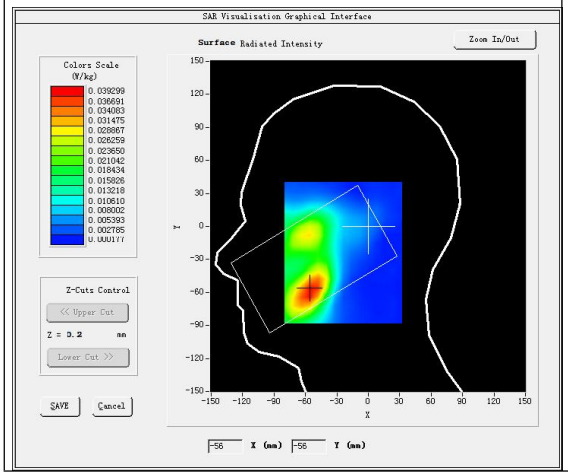
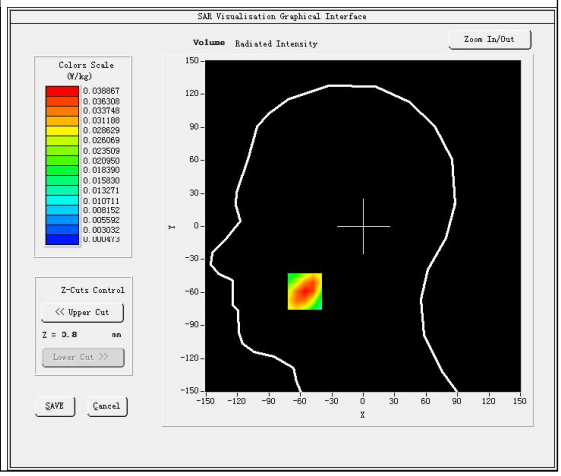
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17; Frequency:1745 MHz; Medium parameters used: f =1750 MHz; σ=1.30 mho/m; εr =40.17; ρ= 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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;

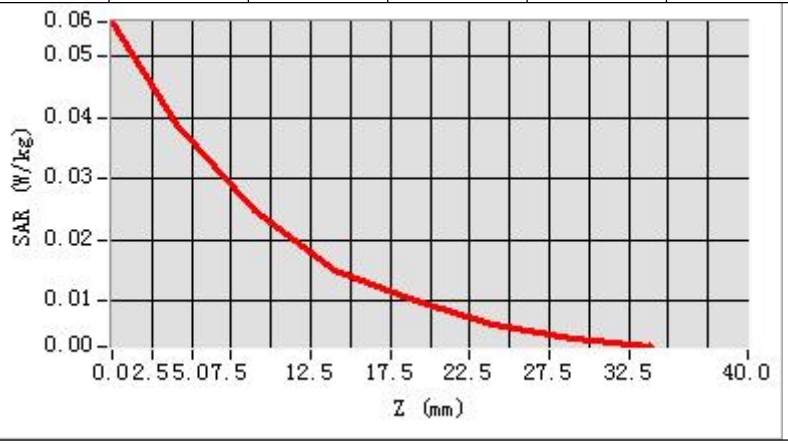
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 66
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

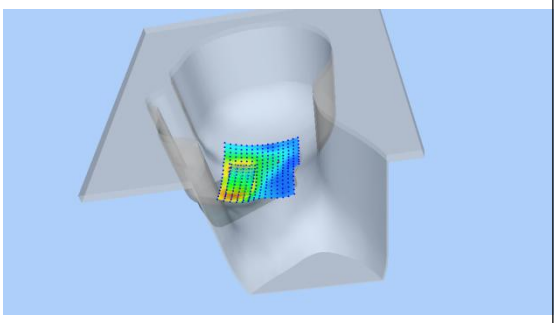
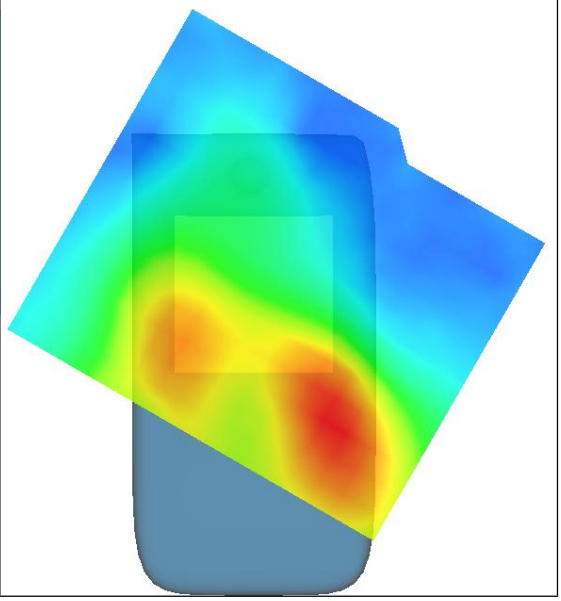
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.021290
SAR 1g (W/Kg)	0.036947

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0556	0.0389	0.0248	0.0150	0.0101	0.0062	0.0040



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
LTE Band 66 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

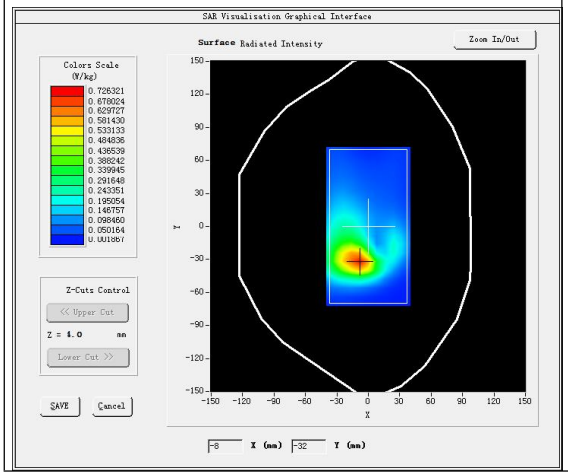
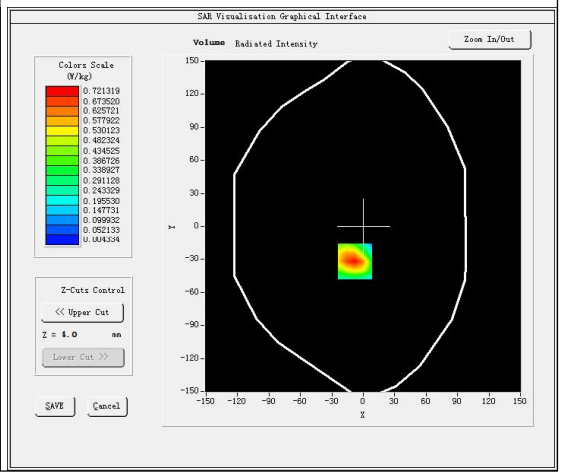
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17;
Frequency:1745 MHz; Medium parameters used: f = 1750 MHz; σ=1.30 mho/m; εr =40.17; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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=5m;

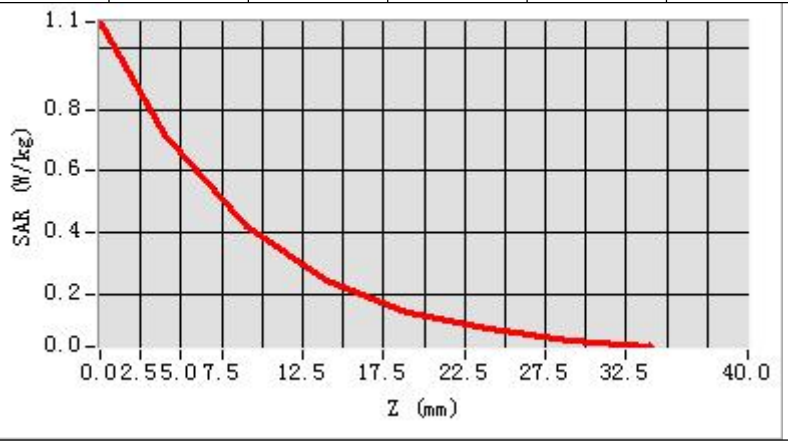
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 66
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

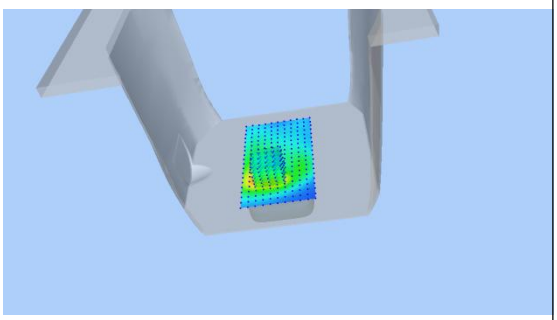
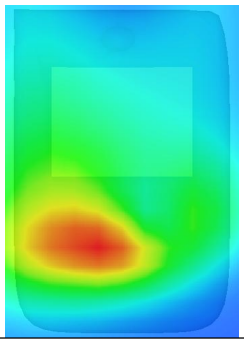
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.367442
SAR 1g (W/Kg)	0.674600

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0878	0.7213	0.4198	0.2404	0.1371	0.0824	0.0462



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 71 Mid-Touch-Right (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

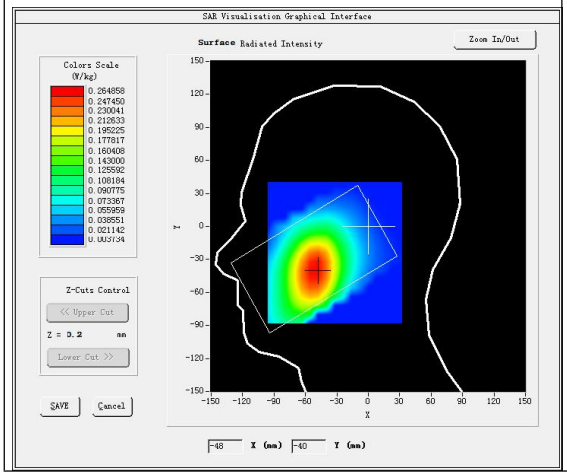
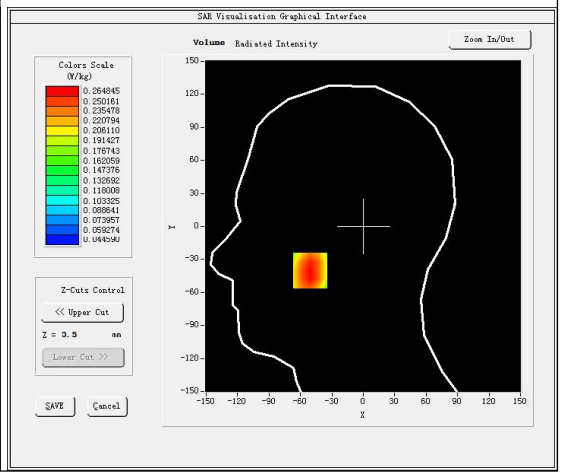
Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95
Frequency: 683 MHz; Medium parameters used: f = 750 MHz; σ=0.82 mho/m; εr =45.79; ρ= 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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;

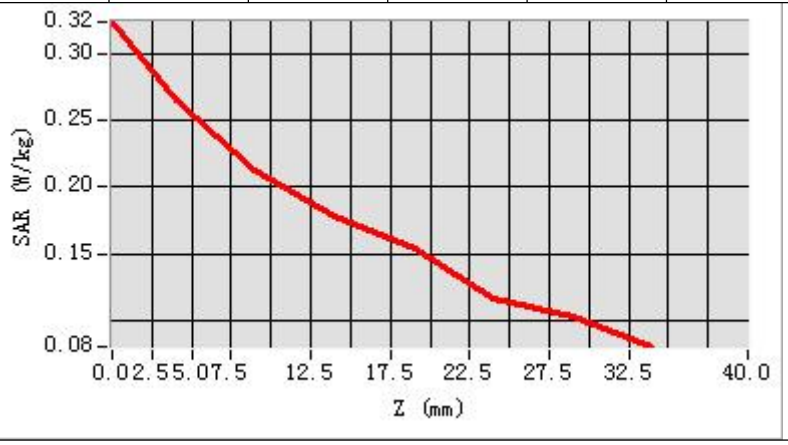
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 71
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

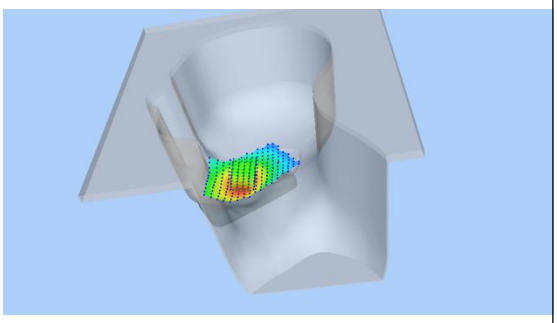
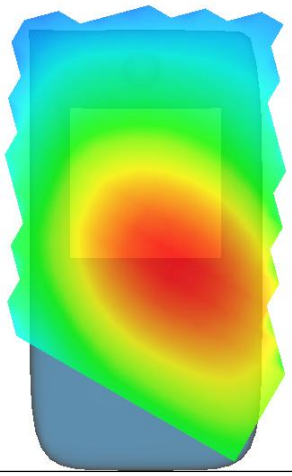
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.209684
SAR 1g (W/Kg)	0.272668

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3239	0.2648	0.2126	0.1788	0.1544	0.1173	0.1036



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 04, 2024**
LTE Band 71 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

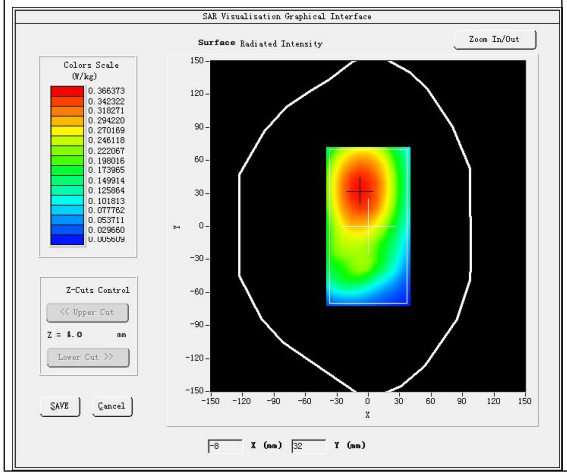
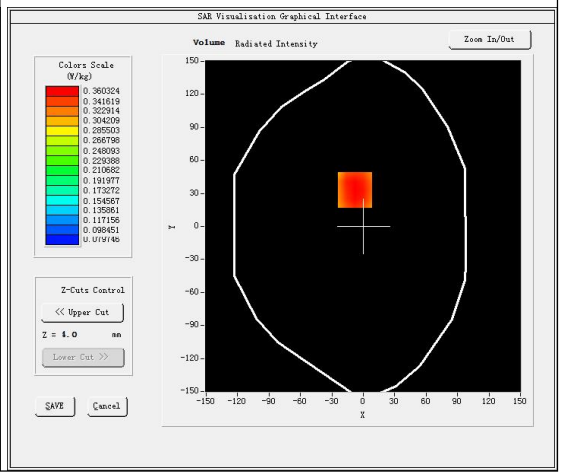
Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95;
Frequency: 683 MHz; Medium parameters used: f = 750 MHz; σ=0.82 mho/m; εr =45.79; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.5, Liquid temperature (℃): 21.3

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=5m;

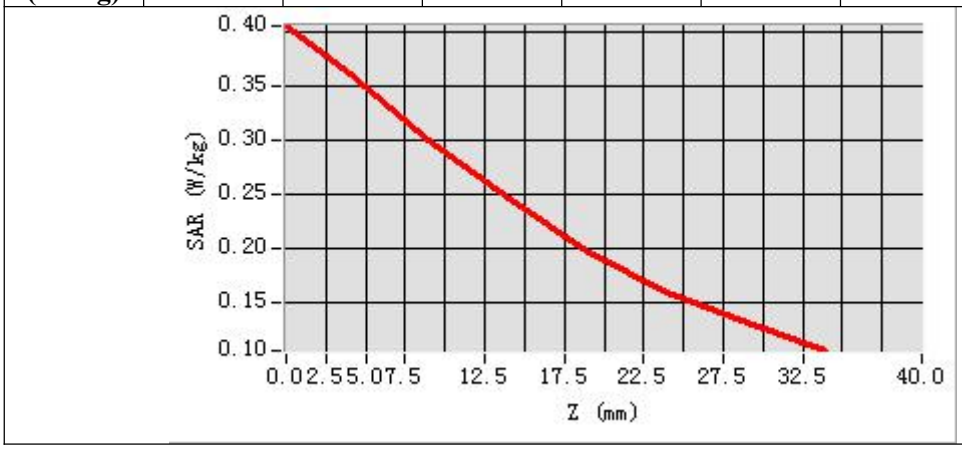
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 71
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

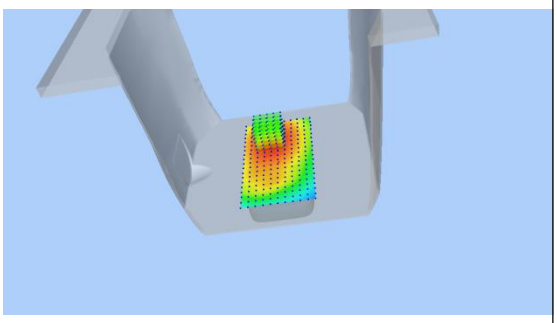
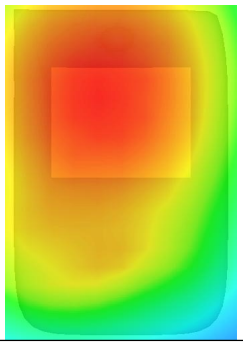
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.285446
SAR 1g (W/Kg)	0.363260

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
	

WIFI MODE

Test Laboratory: AGC Lab **Date: Jan. 06, 2024**
802.11b Mid-Touch-Right
DUT: Smartphone; Type: VORTEX HD68

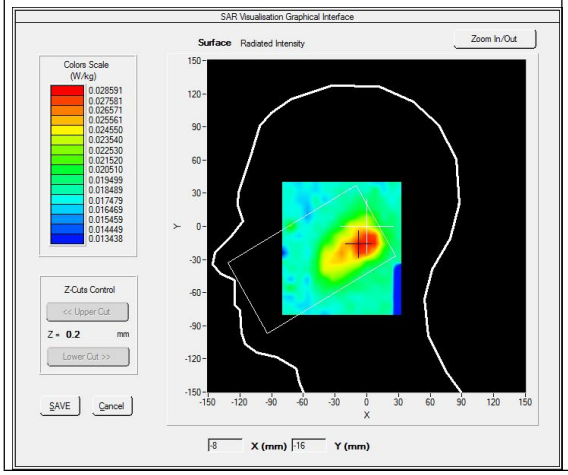
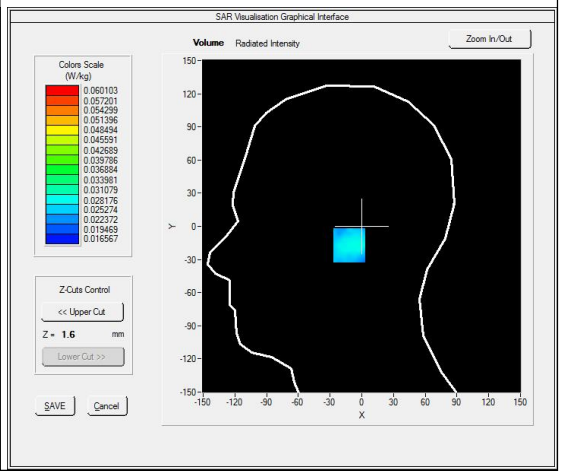
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ =1.80mho/m; εr =40.66 ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃):21.2, Liquid temperature (℃): 20.8

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

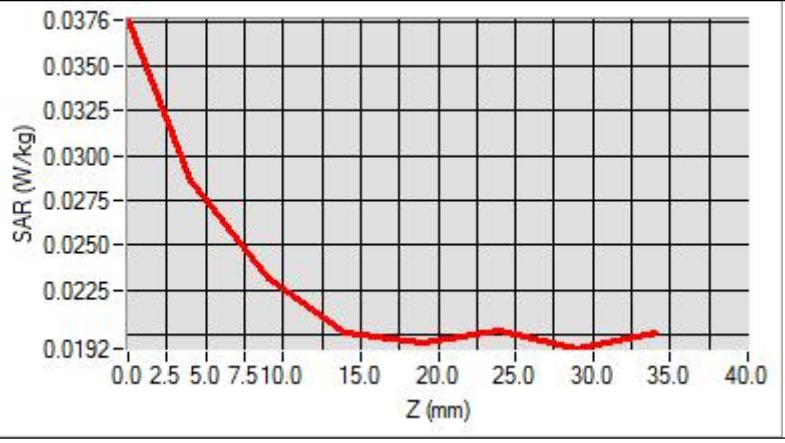
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

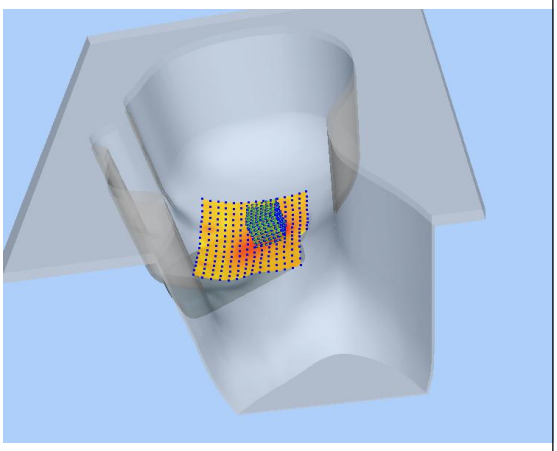
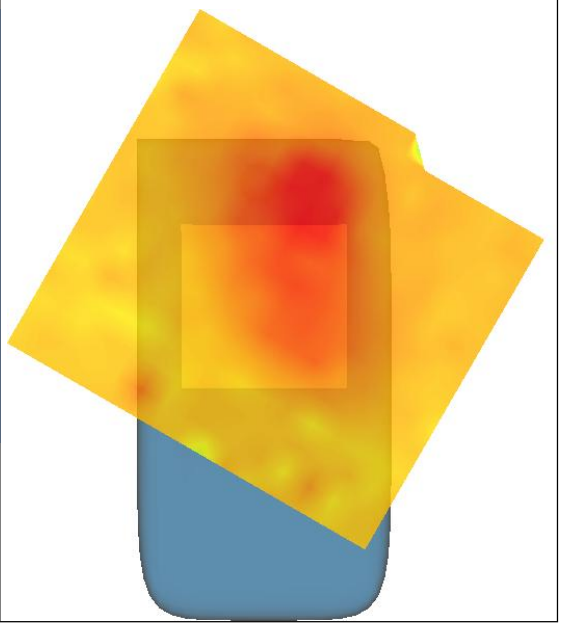
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-17.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.023608
SAR 1g (W/Kg)	0.029182

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
	

Test Laboratory: AGC Lab **Date: Jan. 06, 2024**
802.11b Mid-Body-Worn- Back
DUT: Smartphone; Type: VORTEX HD68

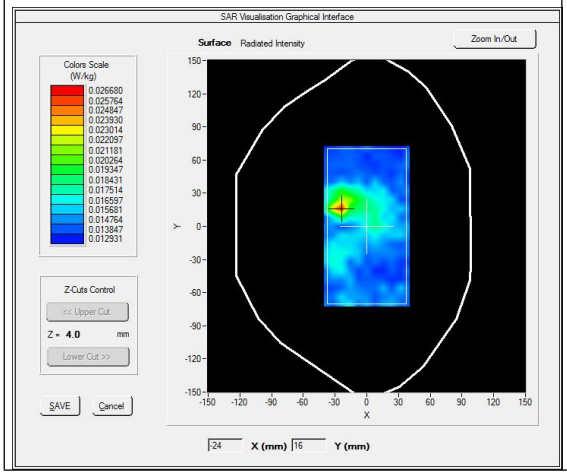
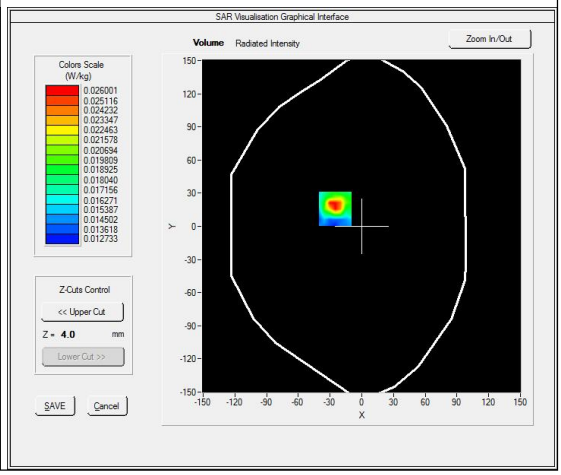
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ =1.80mho/m; εr =40.66; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.2, Liquid temperature (℃): 20.8

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;

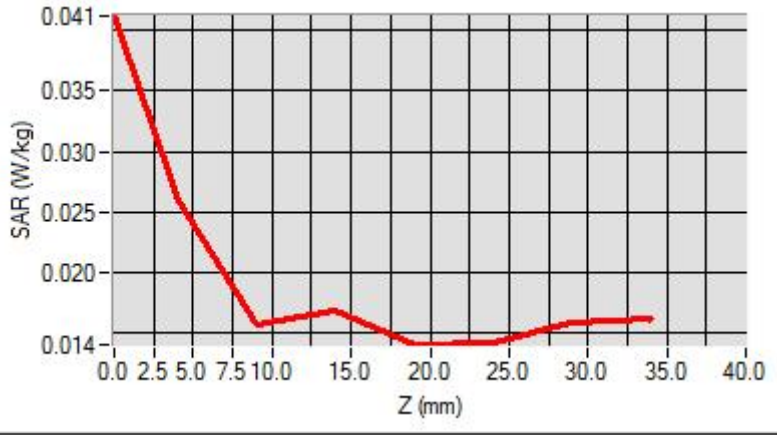
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

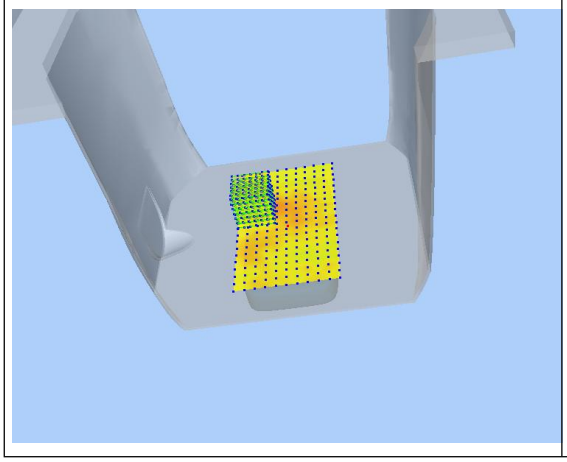
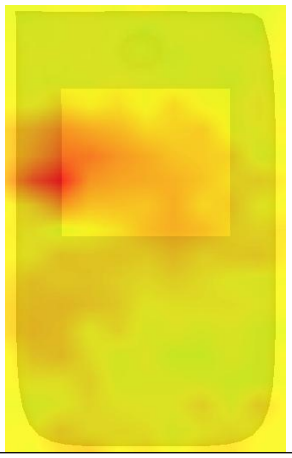
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-25.00, Y=16.00
SAR Peak: 0.04 W/kg

SAR 10g (W/Kg)	0.037947
SAR 1g (W/Kg)	0.089270

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0412	0.0260	0.0157	0.0168	0.0141	0.0142	0.0159



3D screen shot	Hot spot position
	

Repeated SAR
Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Smartphone; Type: VORTEX HD68

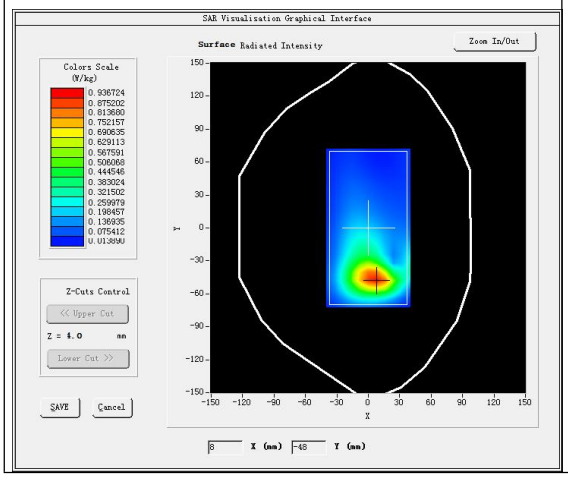
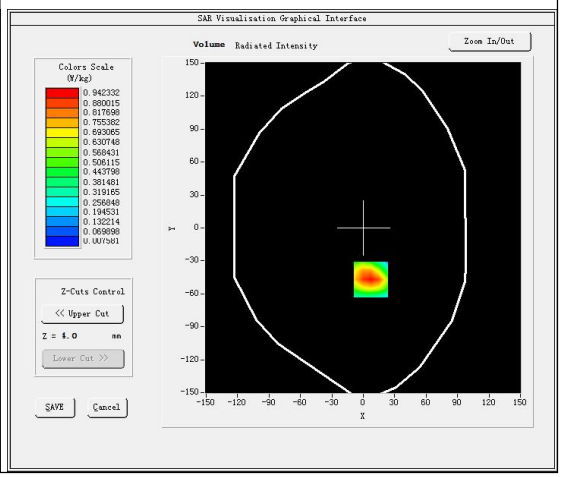
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17; Frequency:1732.4 MHz; Medium parameters used: f = 1750 MHz; σ=1.28 mho/m; εr =41.39; ρ= 1000 kg/m³;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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;

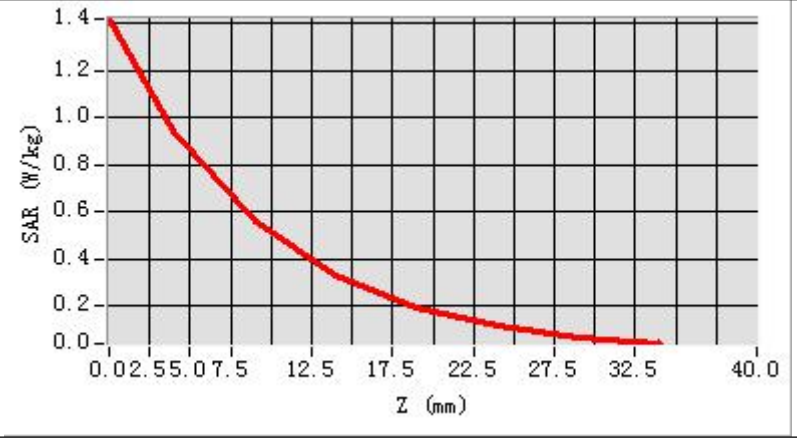
Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA Band IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

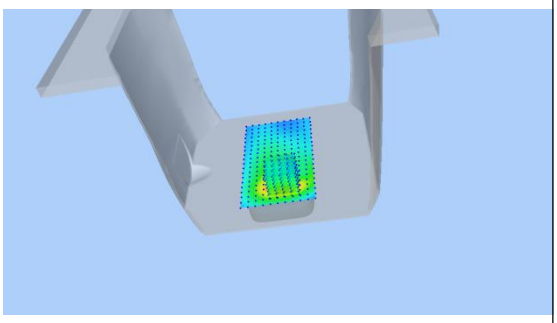
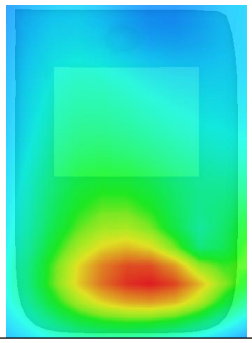
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.485618
SAR 1g (W/Kg)	0.886014

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4177	0.9423	0.5539	0.3317	0.1945	0.1136	0.0661



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 08, 2024**
LTE Band 2 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

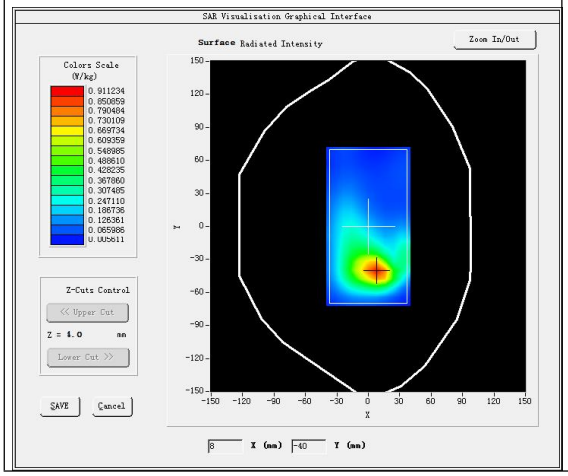
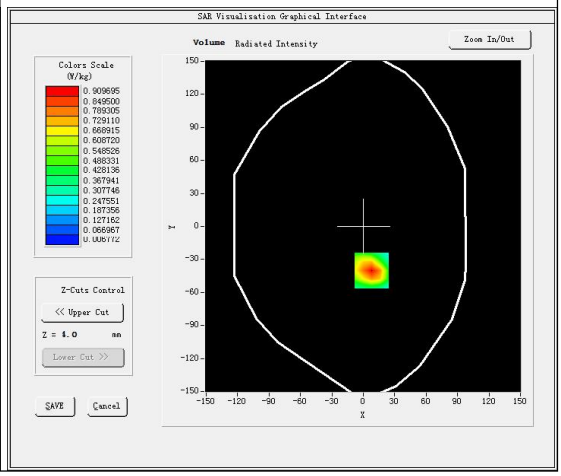
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15; Frequency:1880MHz; Medium parameters used: f = 1900 MHz; σ= 1.31 mho/m; εr =40.69; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.4

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=5m;

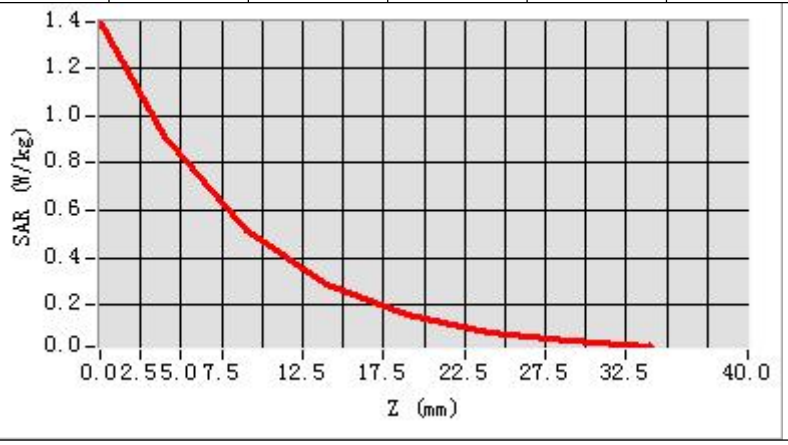
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

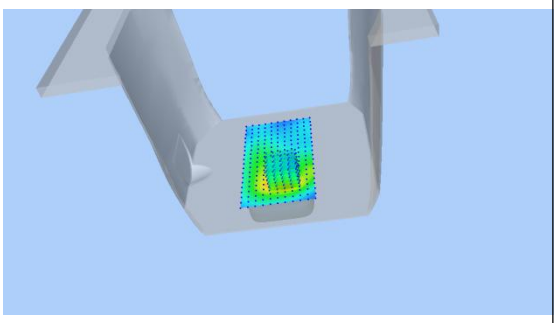
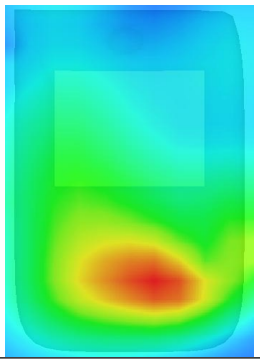
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.445035
SAR 1g (W/Kg)	0.851432

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3949	0.9097	0.5148	0.2908	0.1586	0.0873	0.0479



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Jan. 07, 2024**
LTE Band 4 Mid-Body-Back (1 RB#0)
DUT: Smartphone; Type: VORTEX HD68

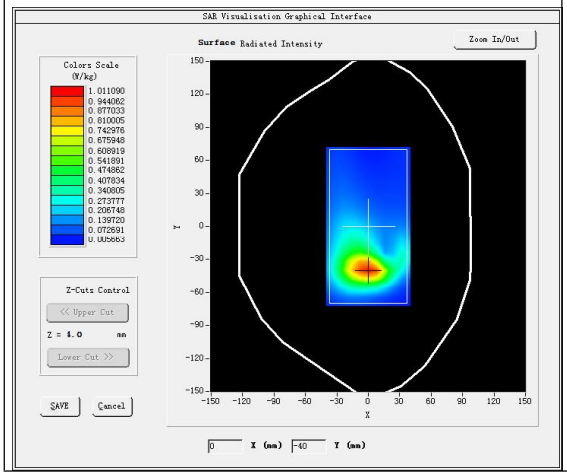
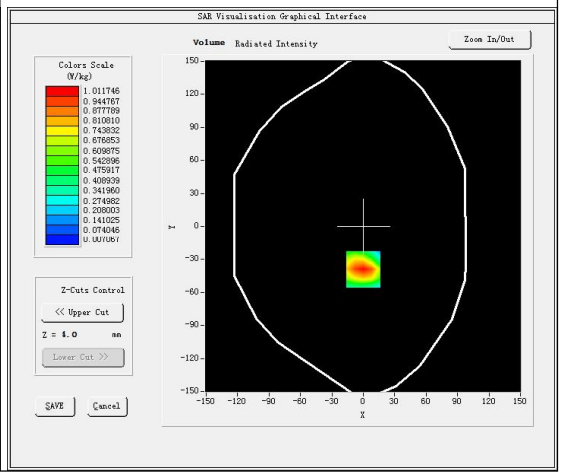
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.28 mho/m; εr =41.39; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

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=5m;

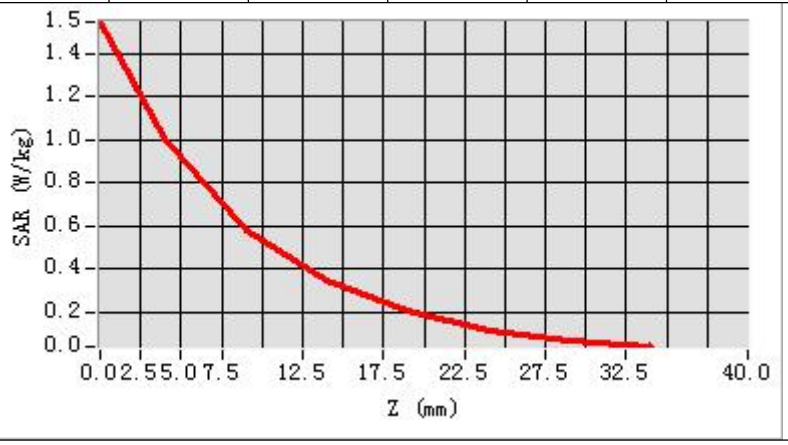
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body Back
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

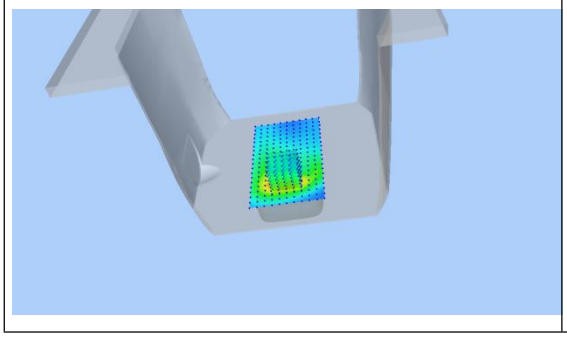
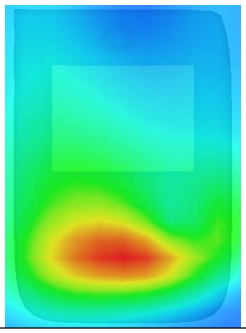
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	0.511859
SAR 1g (W/Kg)	0.950337

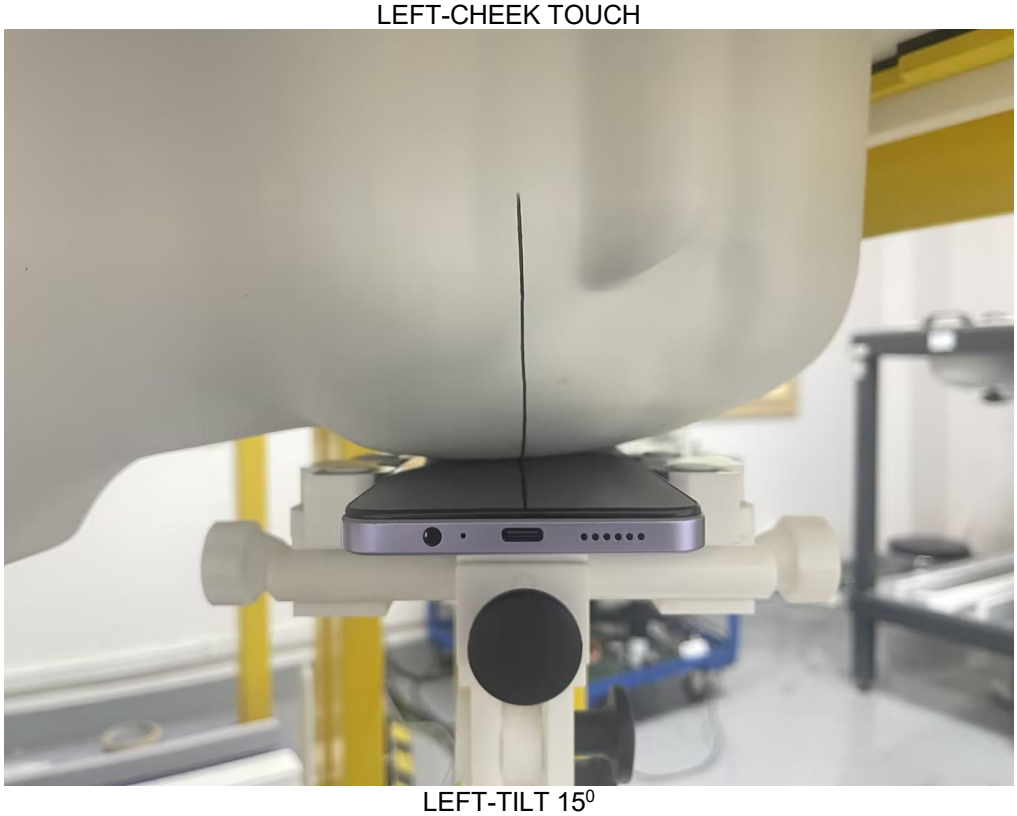
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.5471	1.0117	0.5832	0.3506	0.2034	0.1162	0.0669



3D screen shot	Hot spot position
	

APPENDIX C. TEST SETUP PHOTOGRAPHS

LEFT-CHEEK TOUCH



LEFT-TILT 15^0