

Test Laboratory: AGC Lab
System Check Head 2300 MHz

Date: Apr. 13,2020

DUT: Dipole 2300 MHz Type: SID 2300

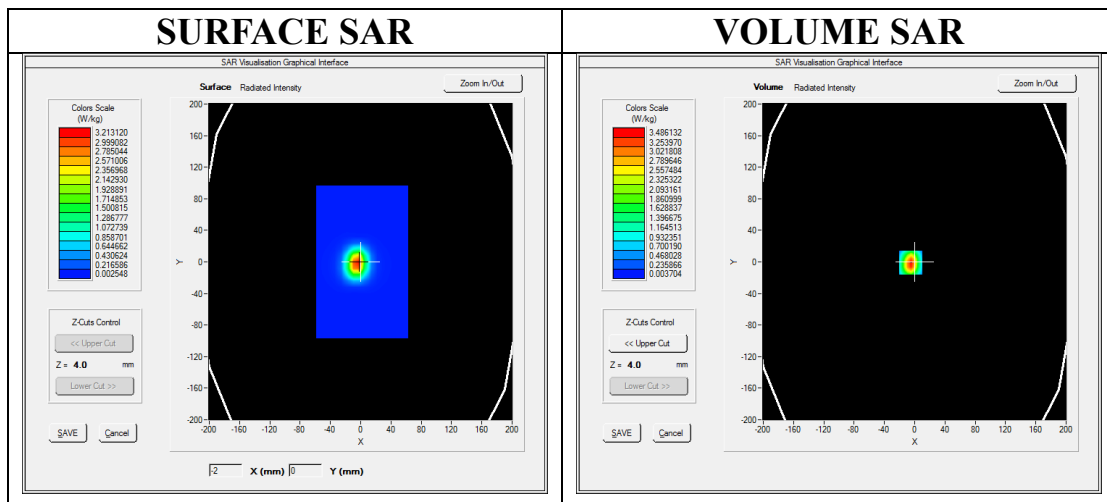
Communication System CW; Communication System Band: D2300 (2300.0 MHz); Duty Cycle: 1:1; Conv.F=4.58
Frequency: 2300 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.63$ mho/m; $\epsilon_r = 39.58$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.4, Liquid temperature (°C): 21.2

SATIMO Configuration

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2300MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

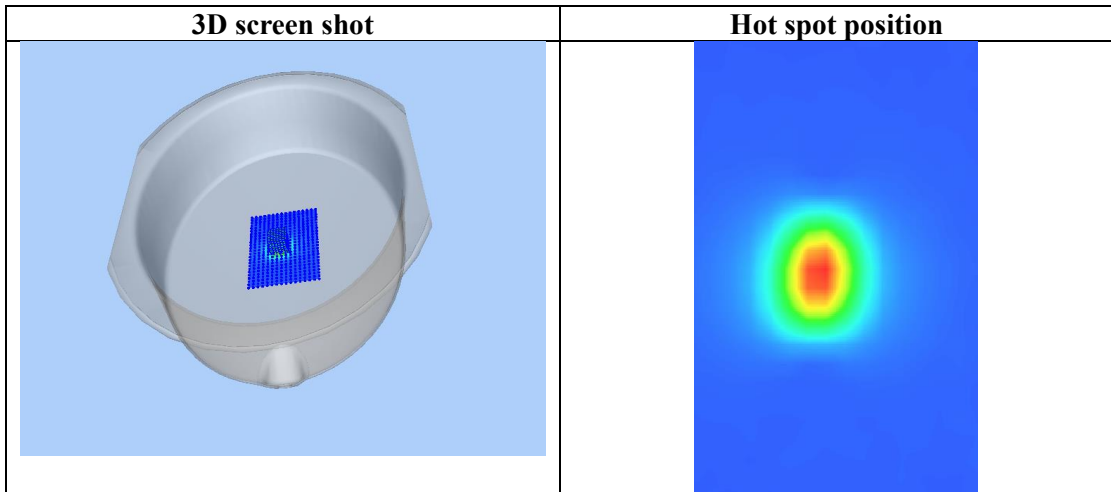
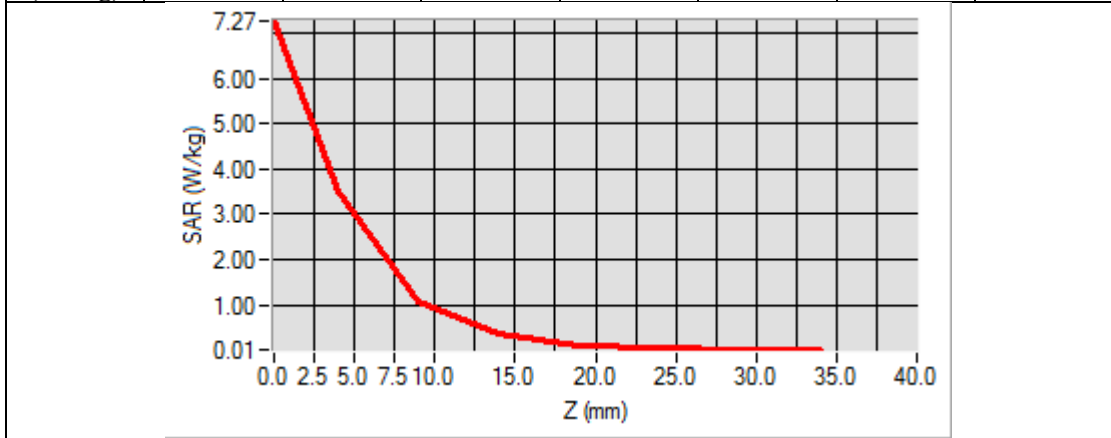
Configuration/System Check 2300MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=-5.00, Y=-1.00
SAR Peak: 7.12 W/kg

SAR 10g (W/Kg)	1.338412
SAR 1g (W/Kg)	3.262807

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.2739	3.4861	1.0859	0.3492	0.1168	0.0407	0.0146



Test Laboratory: AGC Lab
System Check Head 2450 MHz

Date: Apr. 26,2020

DUT: Dipole 2450 MHz Type: SID 2450

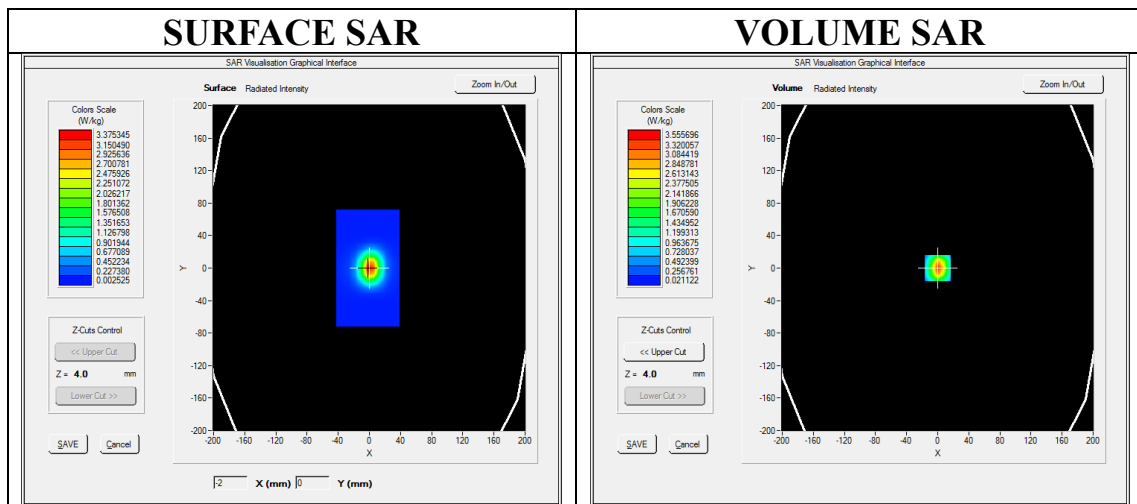
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.12
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 41.61$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C):21.5, Liquid temperature (°C): 21.3

SATIMO Configuration

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

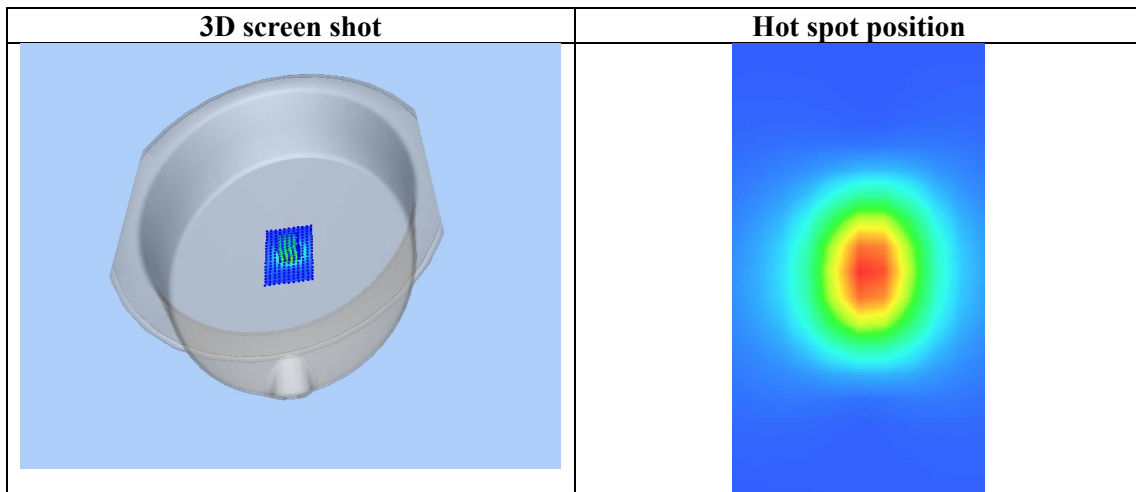
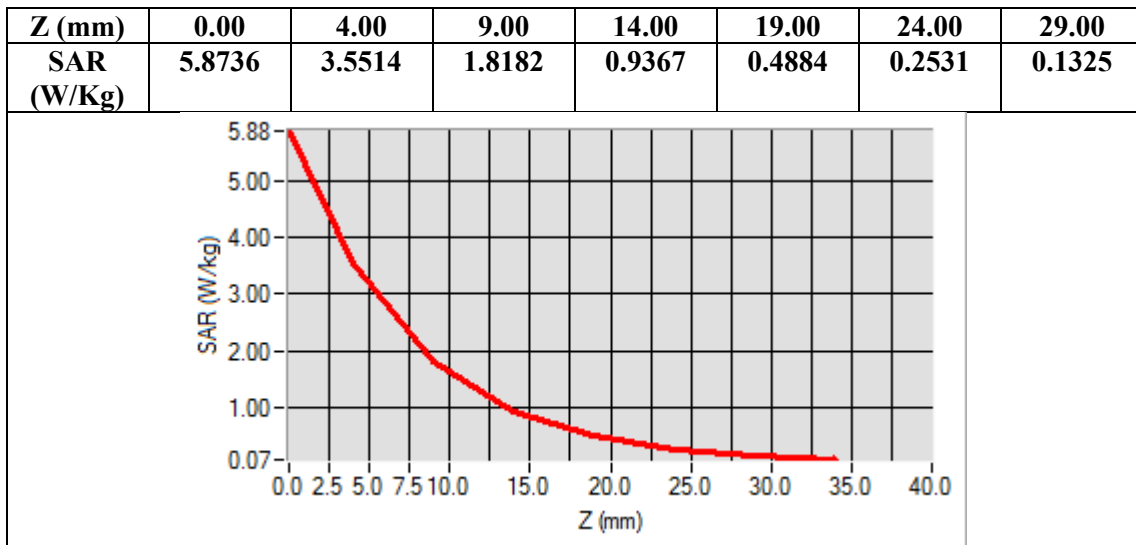
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 5.89 W/kg

SAR 10g (W/Kg)	1.516423
SAR 1g (W/Kg)	3.294398



Test Laboratory: AGC Lab
System Check Head 2600MHz

Date: Apr. 17,2020

DUT: Dipole 2600 MHz; Type: SID 2600

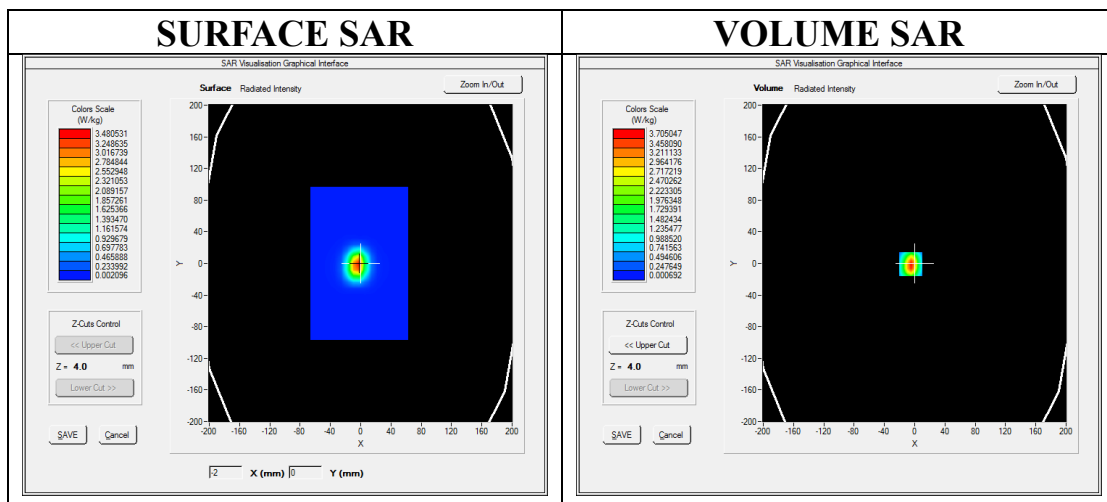
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=3.77
Frequency:2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.15$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

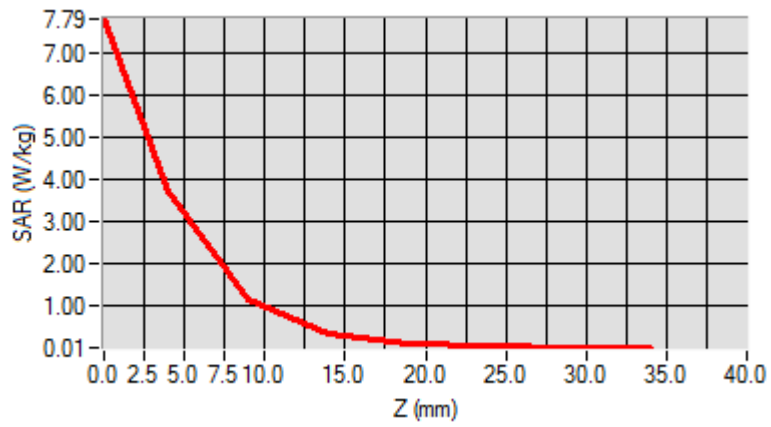


Maximum location: X=-5.00, Y=-1.00

SAR Peak: 7.61 W/kg

SAR 10g (W/Kg)	1.439415
SAR 1g (W/Kg)	3.470628

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.7828	3.7046	1.1252	0.3531	0.1174	0.0465	0.0181



3D screen shot	Hot spot position
<p>A 3D perspective view of a white, shallow bowl. A blue grid is overlaid on the bottom surface of the bowl, indicating the location of the hot spot.</p>	<p>A 2D heatmap showing the spatial distribution of SAR. The central region is colored red and orange, indicating the highest SAR values, surrounded by yellow and green, with the background being blue, indicating lower SAR values.</p>

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Apr. 23,2020

GSM 850 Mid- Touch-Right <SIM 1>

DUT: Smart Phone; Type: Mara Phones Z1

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.05; Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 40.79$ C; $\rho = 1000$ kg/m³ ; Phantom section: Right Section
Ambient temperature (°C): 21.6, Liquid temperature (°C): 21.3

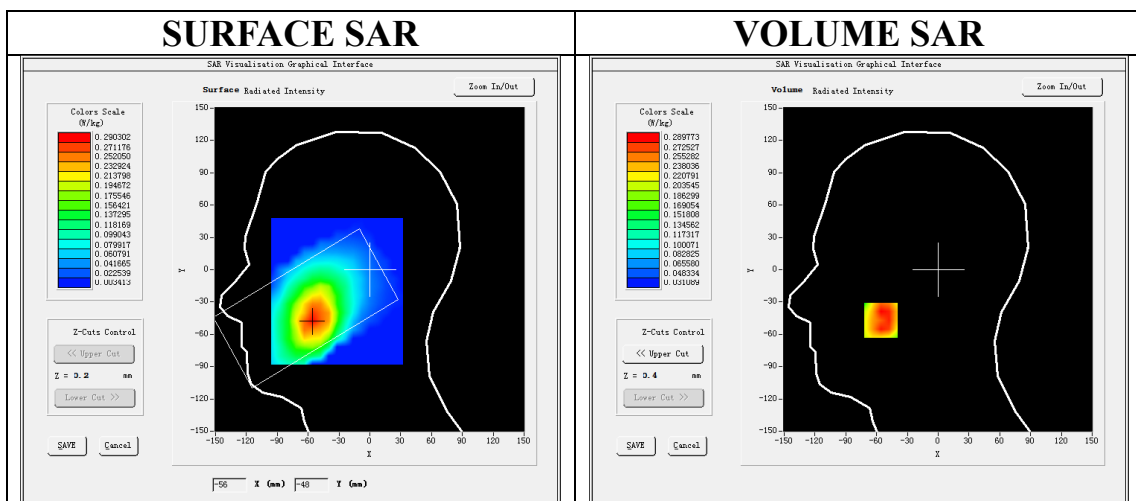
SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 850 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	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

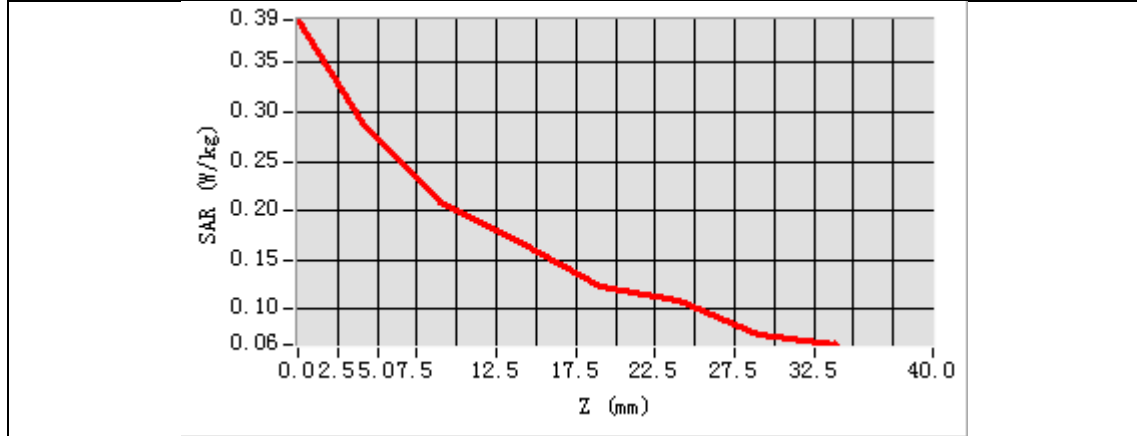


Maximum location: X=-56.00, Y=-47.00

SAR Peak: 0.40 W/kg

SAR 10g (W/Kg)	0.199580
SAR 1g (W/Kg)	0.280435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3930	0.2898	0.2088	0.1676	0.1230	0.1081	0.0750



3D screen shot	Hot spot position
<p>A 3D perspective view of a grey, cup-like device. A small rectangular area on the inner surface is highlighted with a color gradient from blue (low SAR) to red (high SAR), indicating the location of the maximum SAR value.</p>	<p>A 3D perspective view of the same device, showing a larger area on the inner surface with a color gradient from blue to red, representing the spatial distribution of SAR values. The red area indicates the 'hot spot' where SAR is highest.</p>

Test Laboratory: AGC Lab
GSM 850 Mid- Body- Back (MS)<SIM 1>
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 23,2020

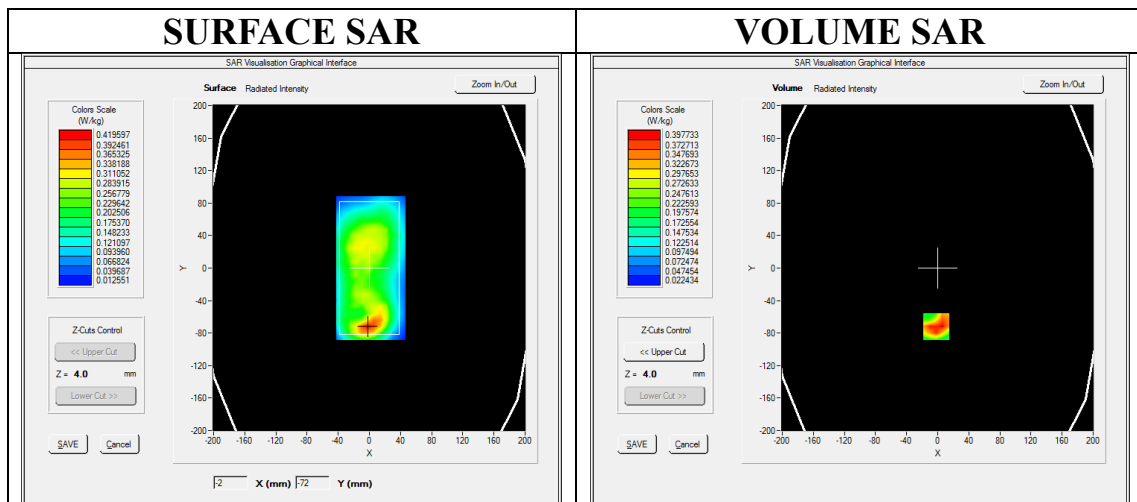
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.05;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.90$ mho/m; $\epsilon r = 40.79$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.6, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GSM 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 850 Mid-Body-Back/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	ELLI
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

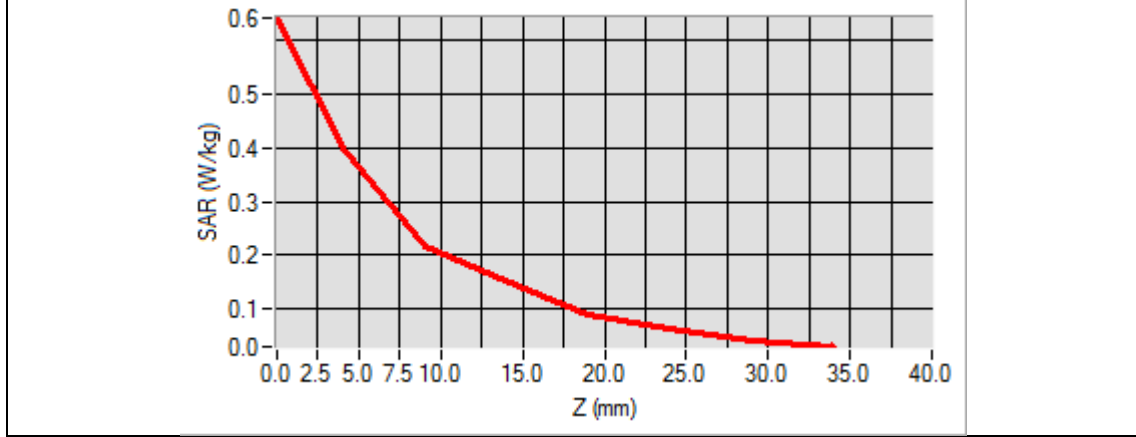


Maximum location: X=-2.00, Y=-72.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.221265
SAR 1g (W/Kg)	0.383917

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6430	0.3977	0.2155	0.1526	0.0872	0.0612	0.0396



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
GPRS 850 Mid- Body- Back (1up)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 23,2020

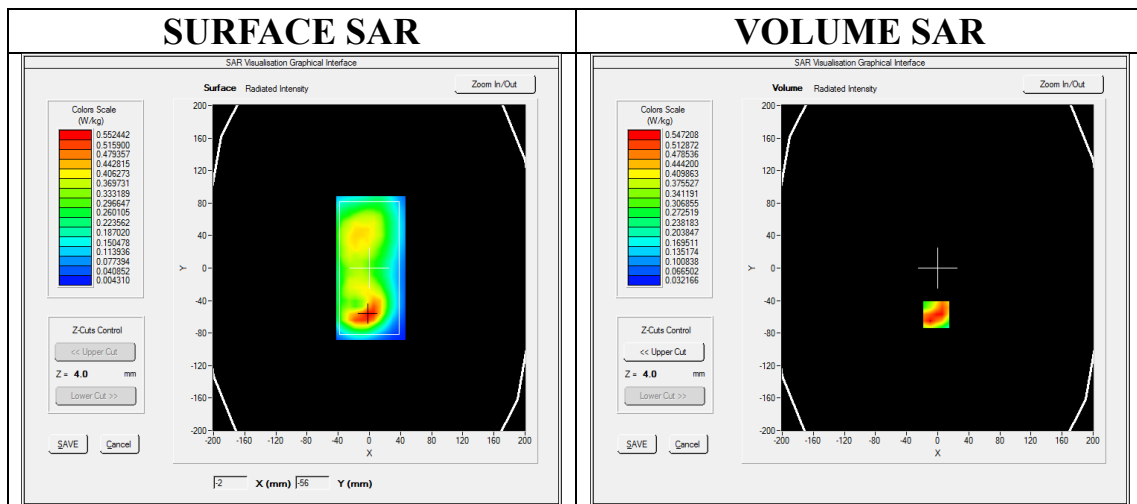
Communication System: GPRS-1 Slot; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=5.05;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.90$ mho/m; $\epsilon r = 40.79$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.6, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 850 Mid-Body-Back/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,Complete
Phantom	ELLI
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

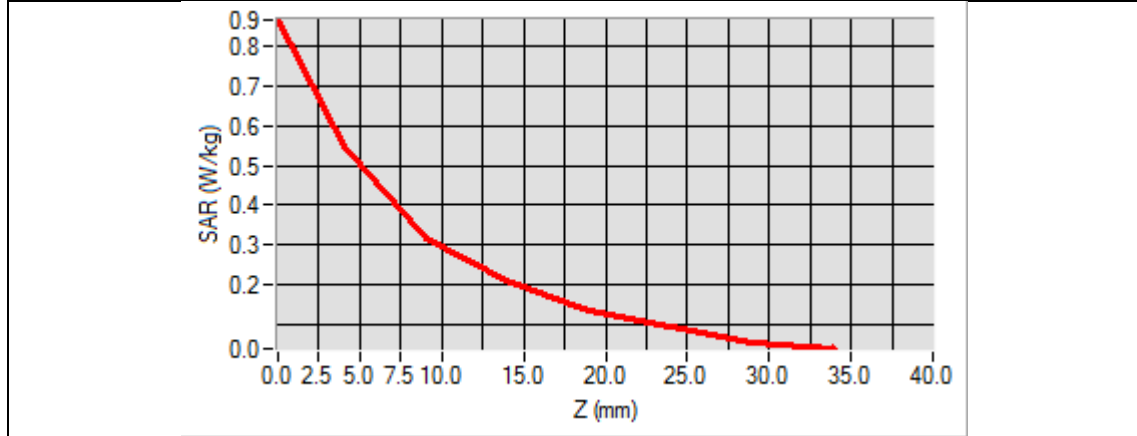


Maximum location: X=-2.00, Y=-57.00

SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.311168
SAR 1g (W/Kg)	0.528487

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8642	0.5472	0.3174	0.2113	0.1371	0.0945	0.0548



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
PCS 1900 Mid-Touch- Left <SIM 1>
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 15,2020

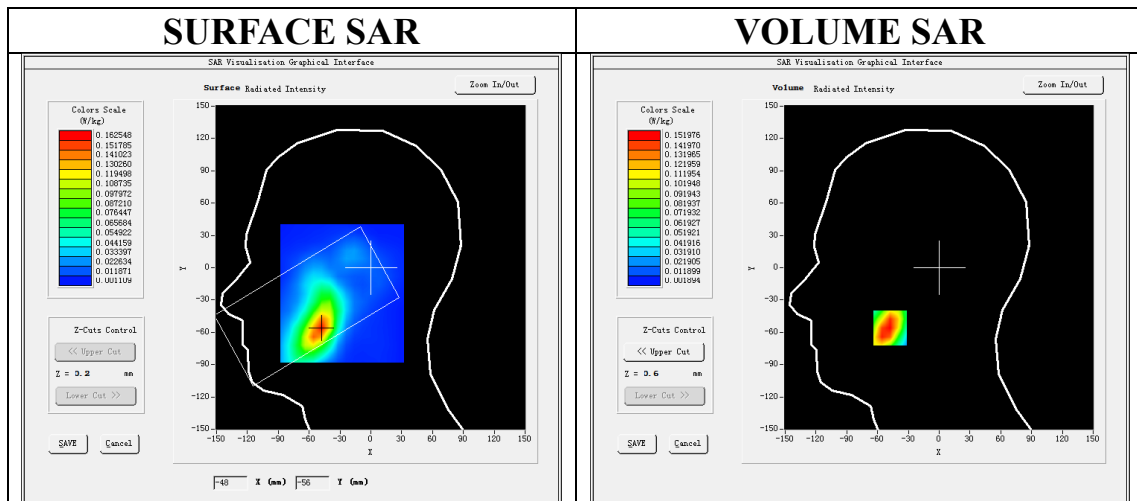
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.48;
Frequency: 1880 MHz; Medium parameters used: $f = 1850$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Left/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	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

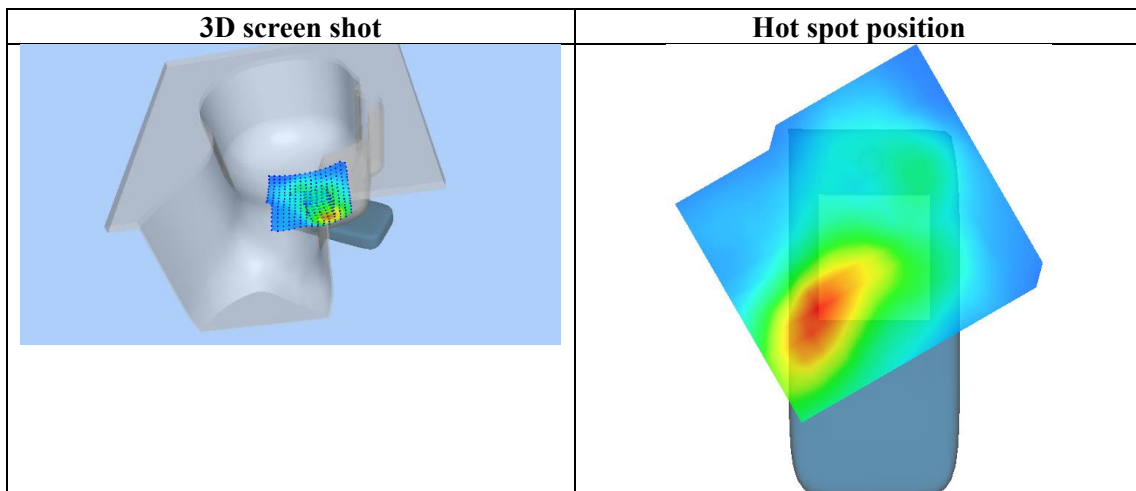
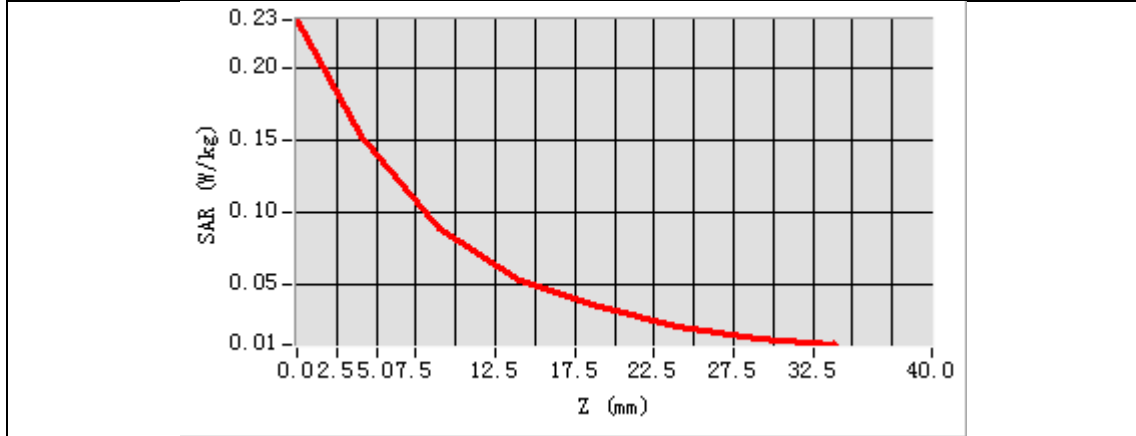


Maximum location: X=-48.00, Y=-56.00

SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.081185
SAR 1g (W/Kg)	0.148840

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2326	0.1520	0.0896	0.0532	0.0350	0.0212	0.0135



Test Laboratory: AGC Lab
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 15,2020

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.48;
Frequency: 1880 MHz; Medium parameters used: $f = 1850$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

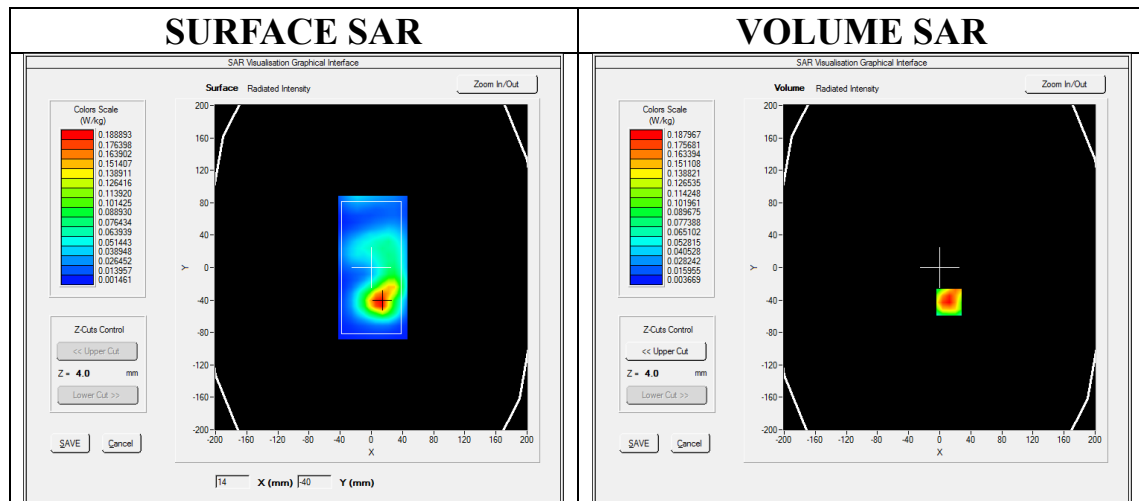
SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/PCS1900 Mid-Body-Back/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	ELLI
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

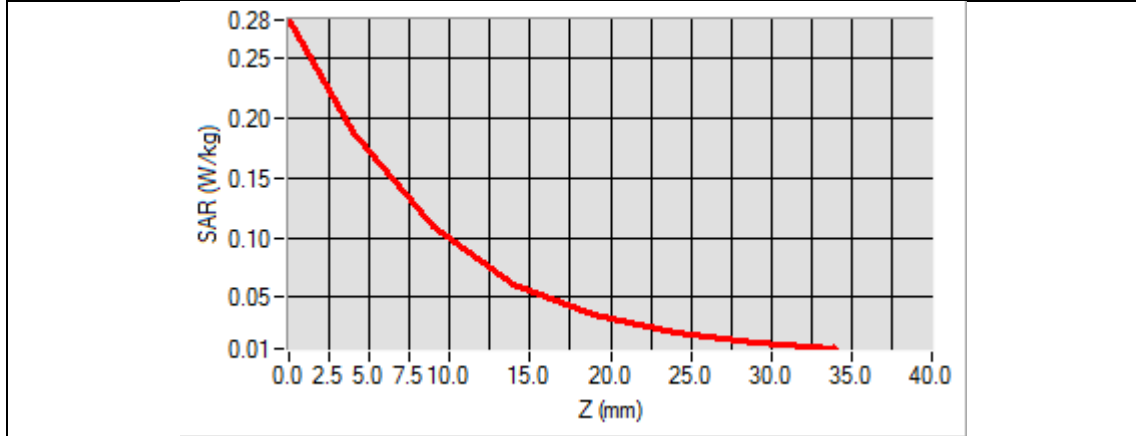


Maximum location: X=12.00, Y=-43.00

SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.101528
SAR 1g (W/Kg)	0.180854

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2827	0.1880	0.1095	0.0607	0.0352	0.0204	0.0121



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
GPRS 1900 Mid-Edge 3(2up)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 15,2020

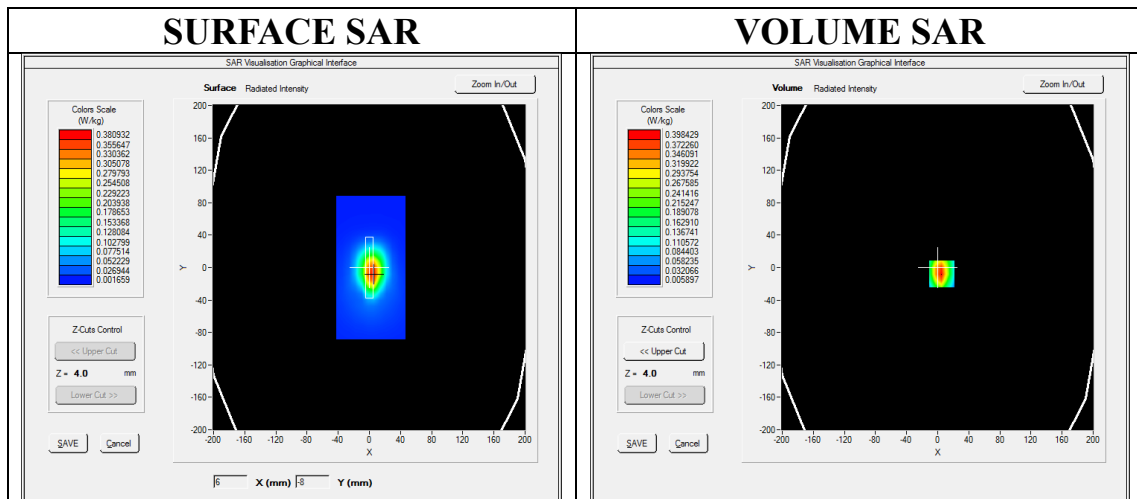
Communication System: GPRS-2Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=4.48;
Frequency: 1880 MHz; Medium parameters used: $f = 1850$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS1900 Mid-Edge 3/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Edge 3/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

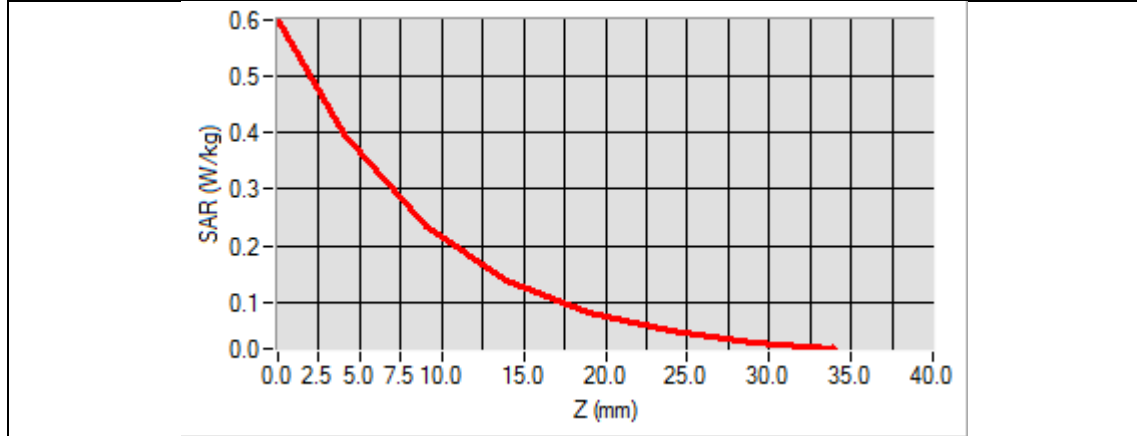
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 3
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)



Maximum location: X=5.00, Y=-8.00
SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.199982
SAR 1g (W/Kg)	0.376447

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5990	0.3984	0.2353	0.1368	0.0831	0.0501	0.0301



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Left (RMC)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 15,2020

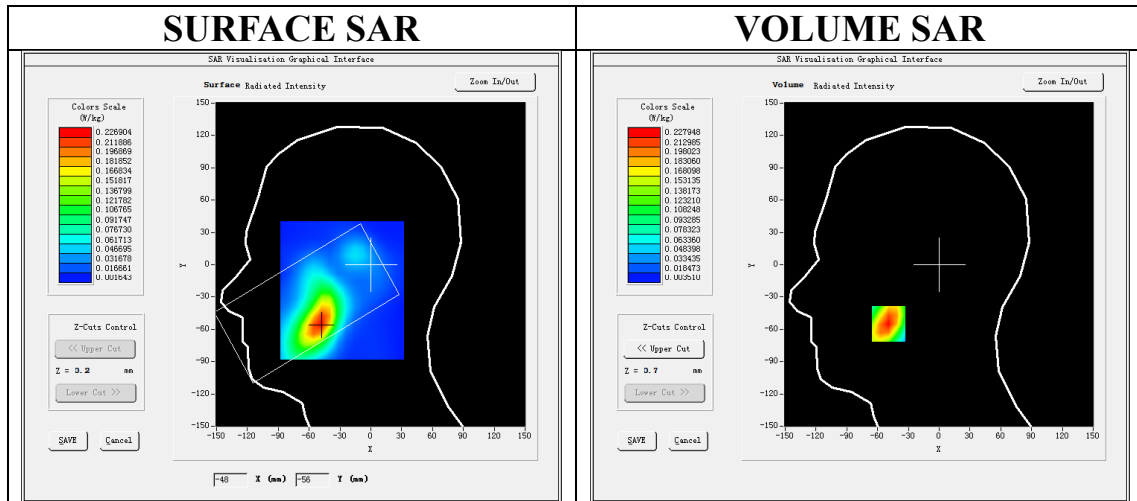
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.48;
Frequency: 1880 MHz; Medium parameters used: $f = 1850$ MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 38.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band II Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band II Mid-Touch-Left/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	Left head
Device Position	Cheek
Band	WCDMA Band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

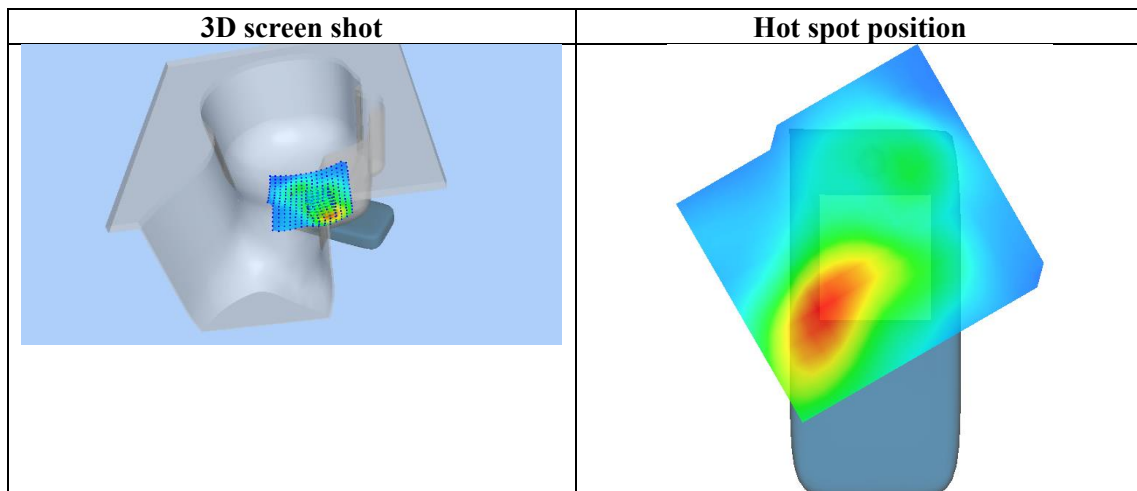
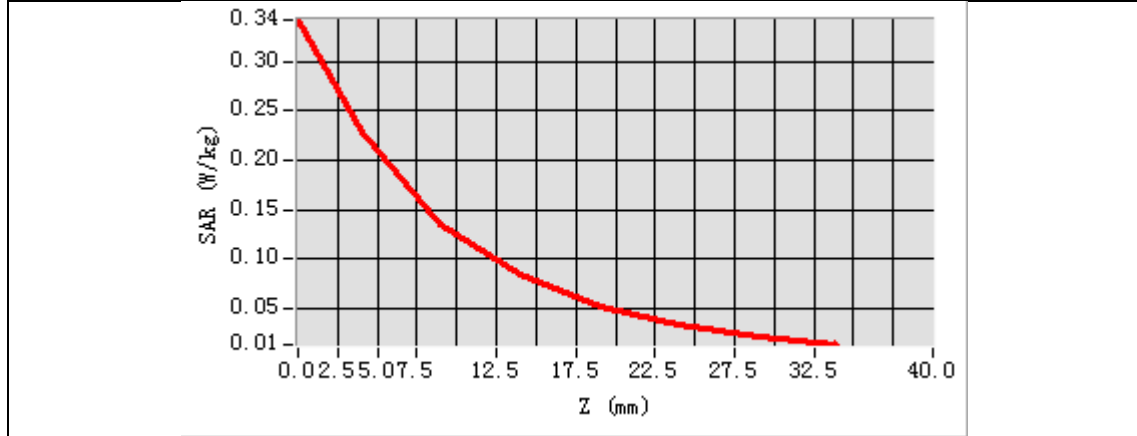


Maximum location: X=-49.00, Y=-55.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.122908
SAR 1g (W/Kg)	0.216575

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3424	0.2279	0.1358	0.0845	0.0523	0.0330	0.0209



Test Laboratory: AGC Lab
WCDMA Band II Mid-Edge 3(RMC)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 15,2020

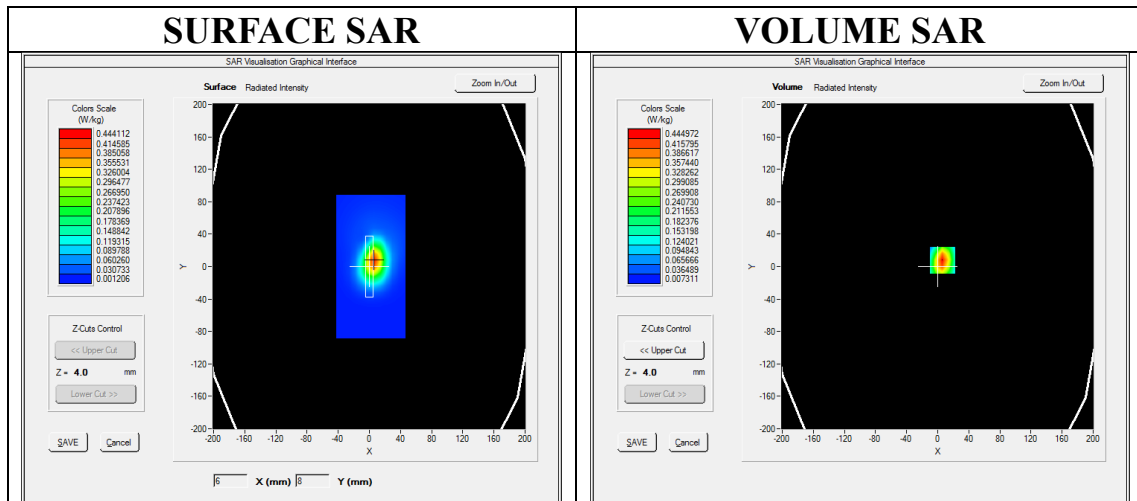
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.60
Frequency: 1880 MHz; Medium parameters used: $f = 1850$ MHz; $\sigma = 1.36$ mho/m; $\epsilon r = 38.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Edge 3/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Edge 3/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

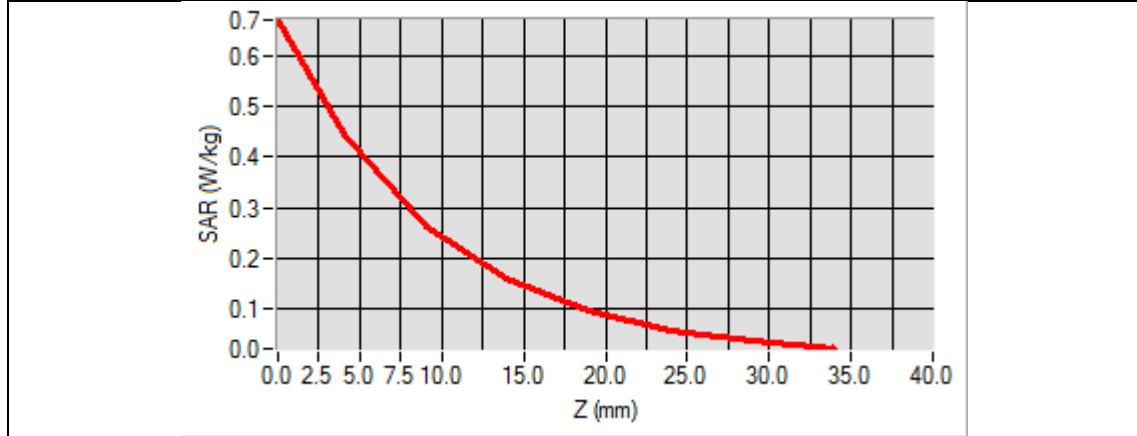
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Edge 3
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=6.00, Y=8.00
SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.222106
SAR 1g (W/Kg)	0.413987

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6693	0.4450	0.2631	0.1605	0.0969	0.0596	0.0366



3D screen shot	Hot spot position

Test Laboratory: AGC Lab

Date: Apr. 23,2020

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Smart Phone; Type: Mara Phones Z1

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.05; Frequency: 836.6 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 40.79$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Right Section Ambient temperature ($^{\circ}\text{C}$): 21.6, Liquid temperature ($^{\circ}\text{C}$): 21.3

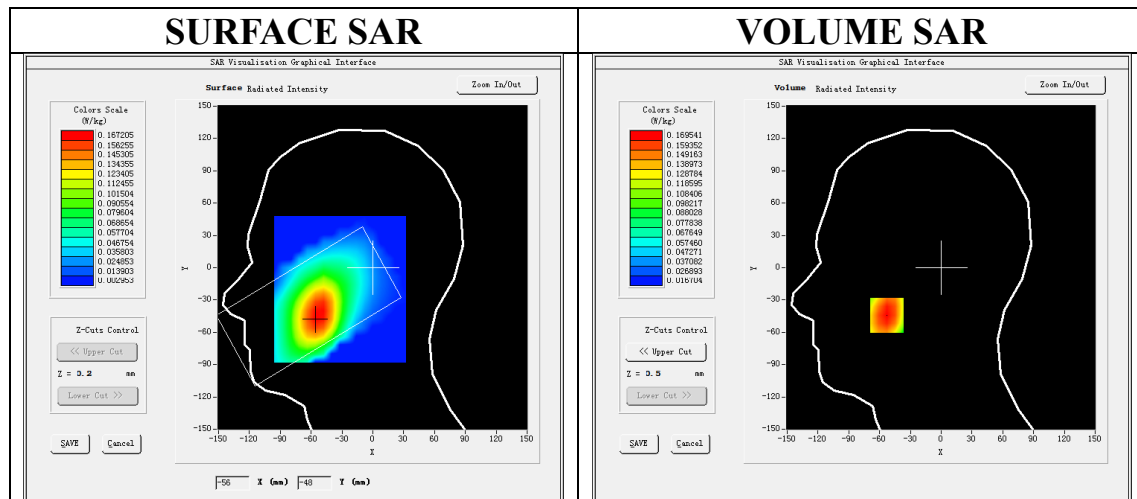
SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- 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)

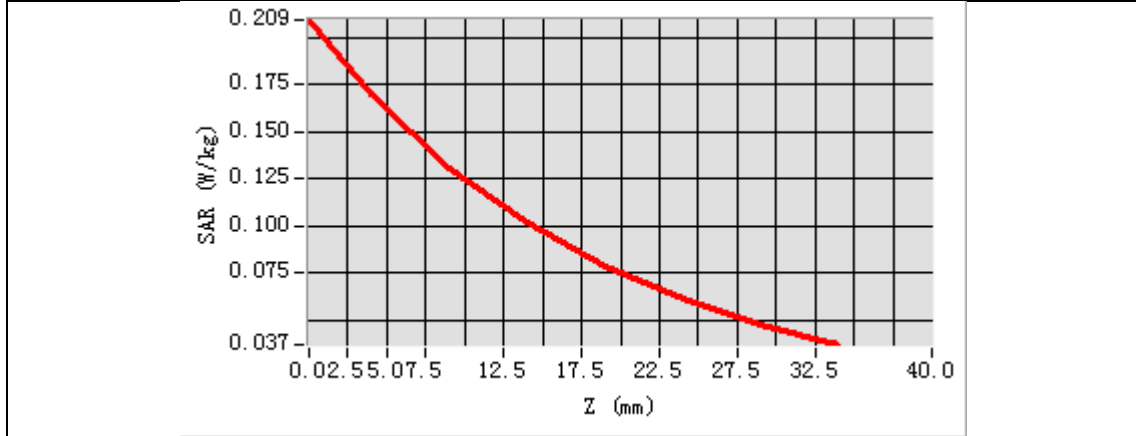


Maximum location: X=-53.00, Y=-44.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.119417
SAR 1g (W/Kg)	0.164125

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2093	0.1695	0.1306	0.1022	0.0783	0.0618	0.0474



3D screen shot	Hot spot position
<p>A 3D perspective view of a grey, cup-like device. A small, multi-colored grid (representing SAR distribution) is overlaid on the inner surface of the cup. The colors range from blue (low SAR) to red (high SAR).</p>	<p>A 3D visualization of the device's hot spot. The device is shown in blue. A large, irregularly shaped area on the inner surface is highlighted with a color gradient from blue to red, indicating the location and intensity of the maximum SAR exposure.</p>

Test Laboratory: AGC Lab

Date: Apr. 23,2020

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

DUT: Smart Phone; Type: Mara Phones Z1

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.05; Frequency: 836.6 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 40.79$; $\rho = 1000 \text{ kg/m}^3$; Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.6, Liquid temperature ($^{\circ}\text{C}$): 21.3

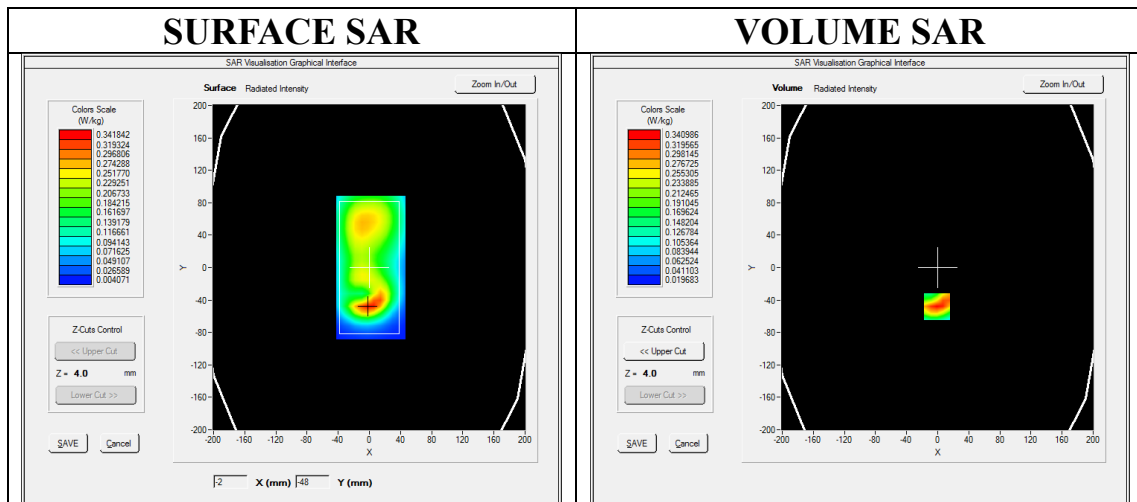
SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 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	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	ELLI
Device Position	Body Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

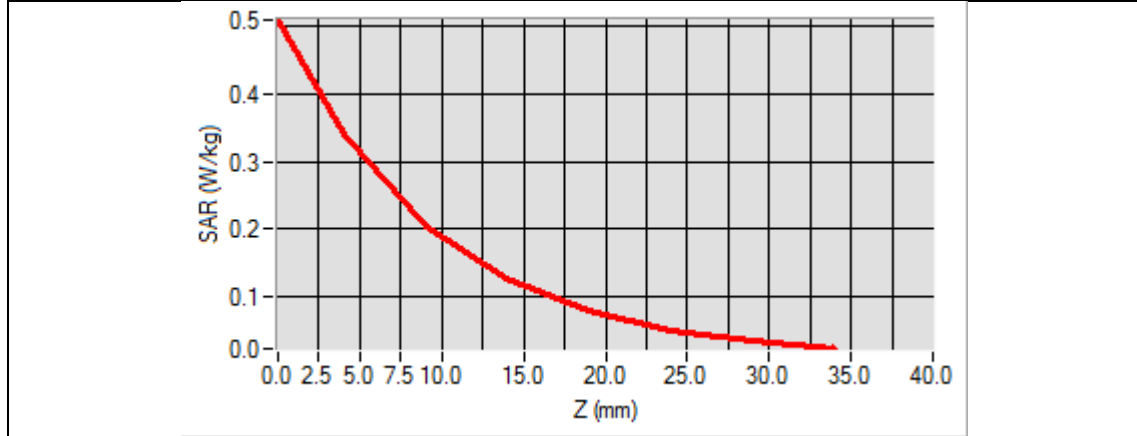


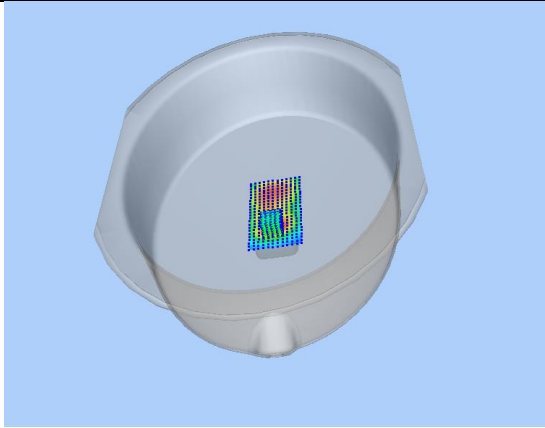
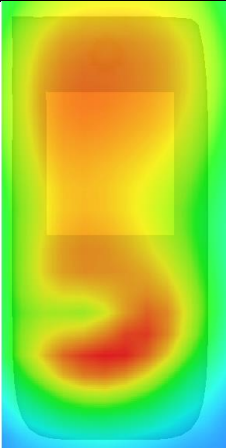
Maximum location: X=-1.00, Y=-48.00

SAR Peak: 0.51 W/kg

SAR 10g (W/Kg)	0.186222
SAR 1g (W/Kg)	0.321892

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5090	0.3410	0.2040	0.1268	0.0803	0.0516	0.0361



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab
LTE Band 7 Mid-Right Tilt (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

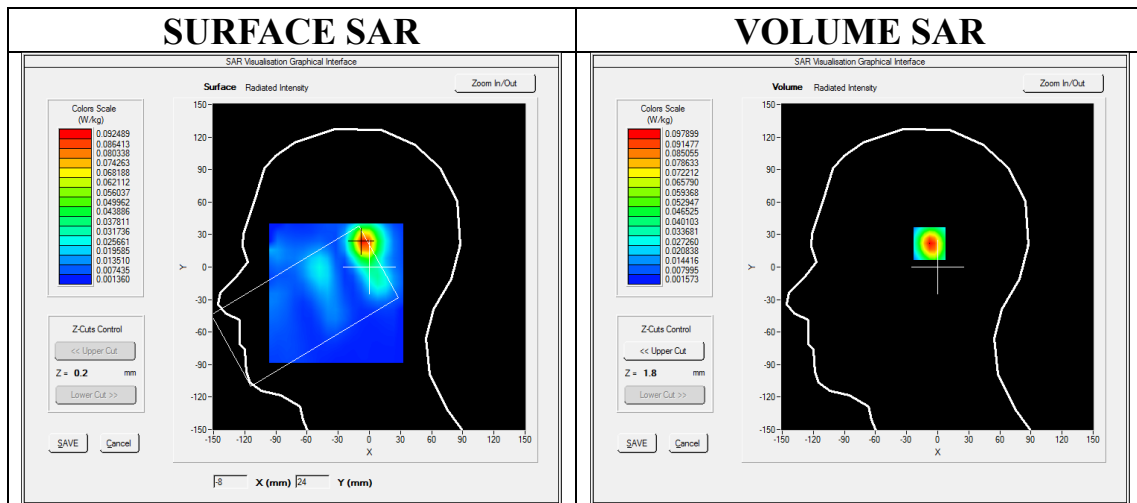
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=3.77
Frequency: 2535MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 7 Mid-Right Tilt/Area Scan: Measurement grid: dx=8mm, y=8mm
Configuration/ LTE BAND 7 Mid-Right Tilt/Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

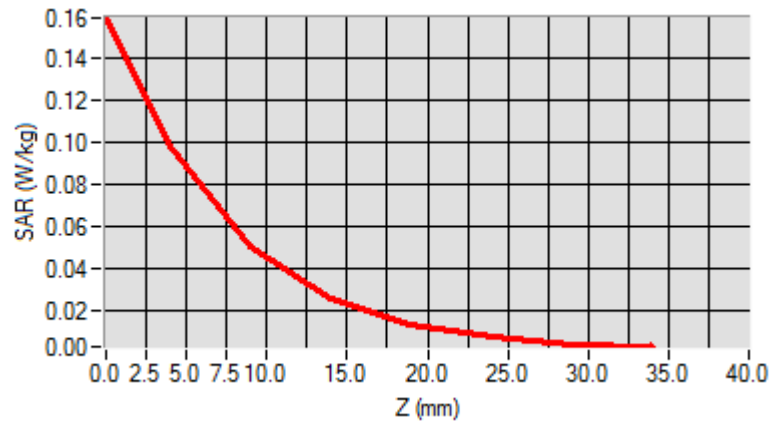
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Right Tilt
Device Position	Cheek
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



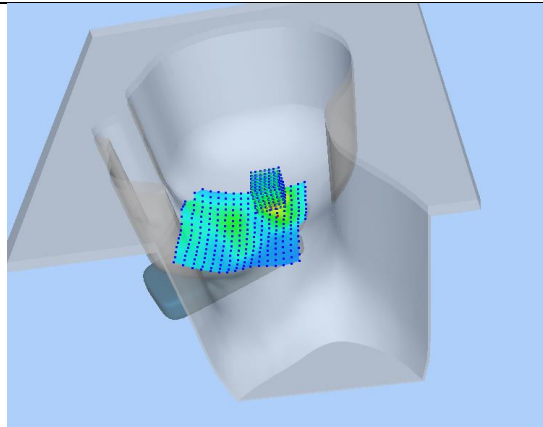
Maximum location: X=-6.00, Y=23.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.042401
SAR 1g (W/Kg)	0.089577

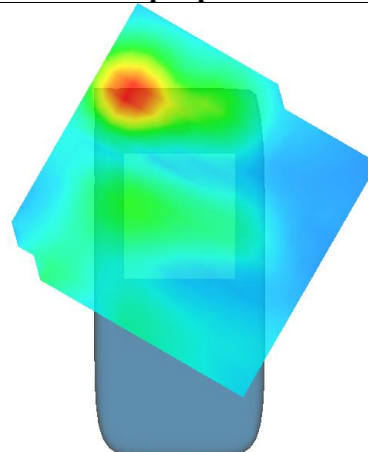
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1594	0.0979	0.0509	0.0262	0.0137	0.0074	0.0042



3D screen shot



Hot spot position



Test Laboratory: AGC Lab
LTE Band 7 Mid-Edge 3 (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

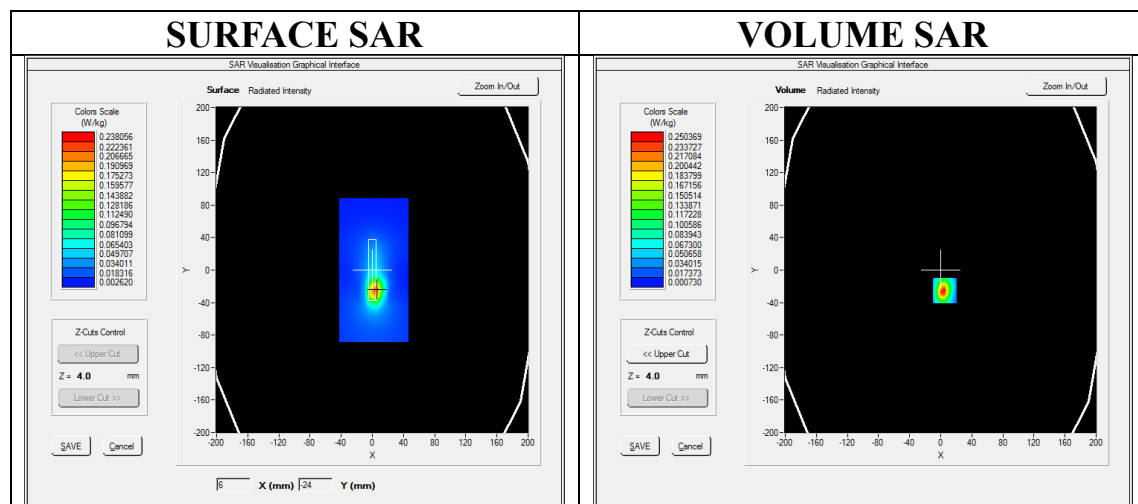
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=3.77
Frequency: 2535MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 38.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 7 Mid-Edge 3 /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 7 Mid-Edge 3 /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

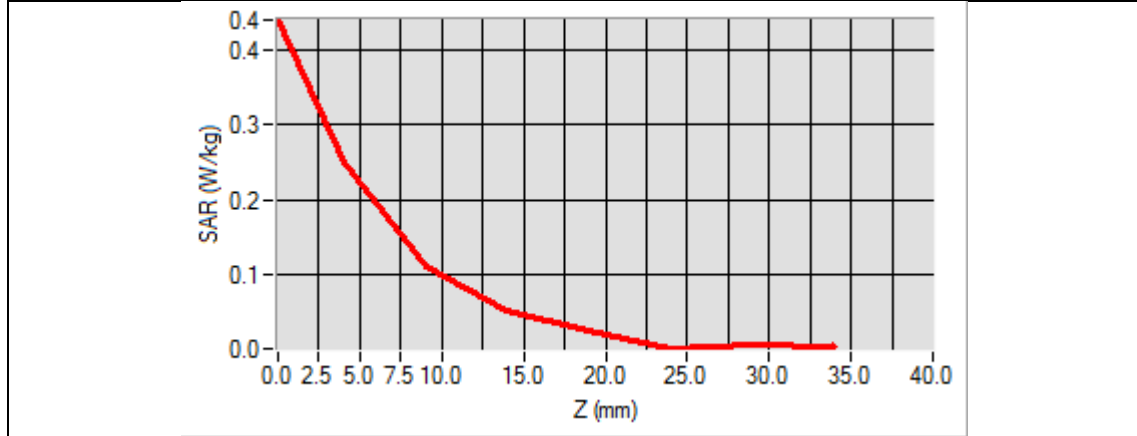
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 3
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



Maximum location: X=5.00, Y=-25.00
SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.089129
SAR 1g (W/Kg)	0.228835

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4392	0.2504	0.1126	0.0529	0.0264	0.0020	0.0065



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
LTE Band 38 Mid-Right-Tilt (1 RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

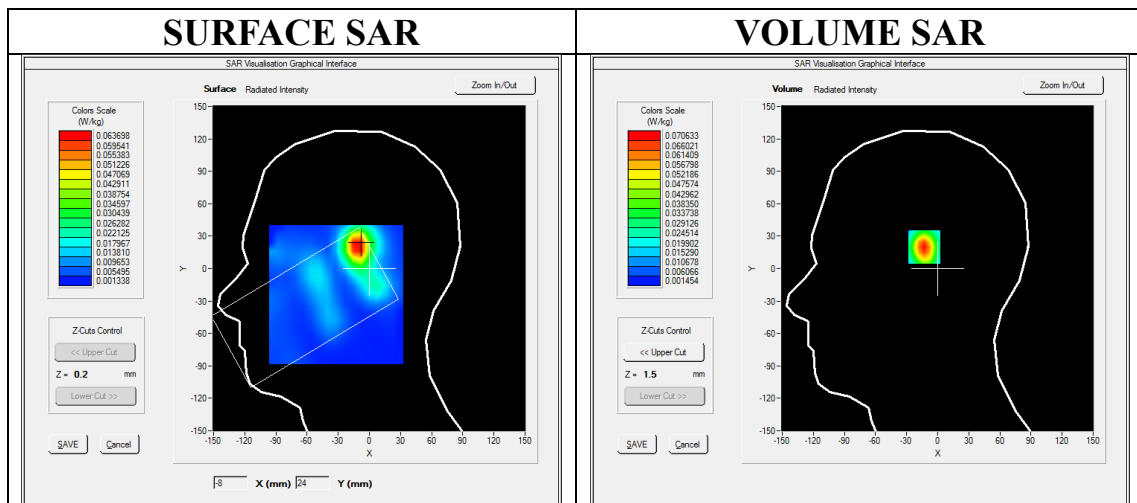
Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=3.77
Frequency: 2595 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.15$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 38 Mid- Right-Tilt/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 38 Mid- Right-Tilt/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 Tilt
Device Position	Cheek
Band	LTE Band 38
Channels	Middle
Signal	Crest factor: 1.58

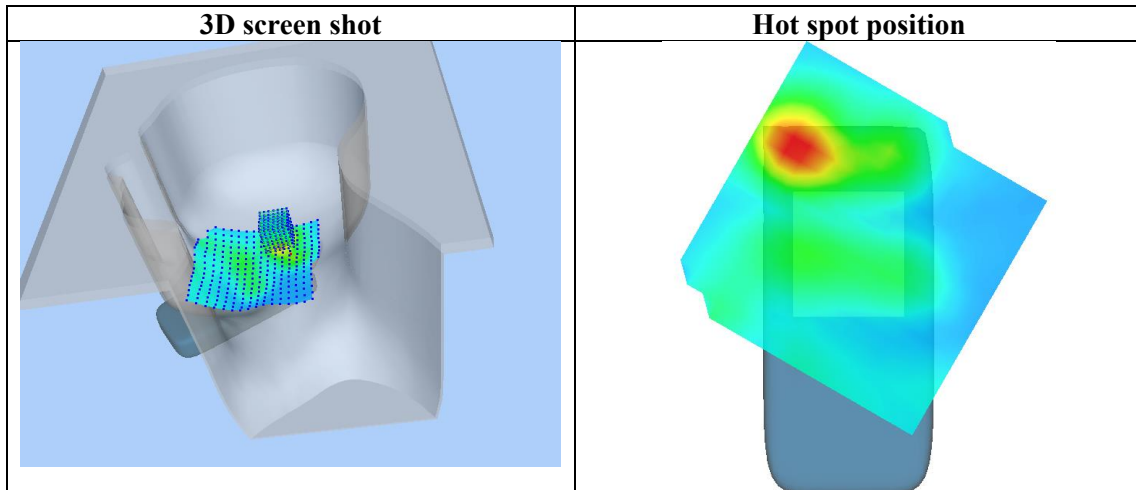
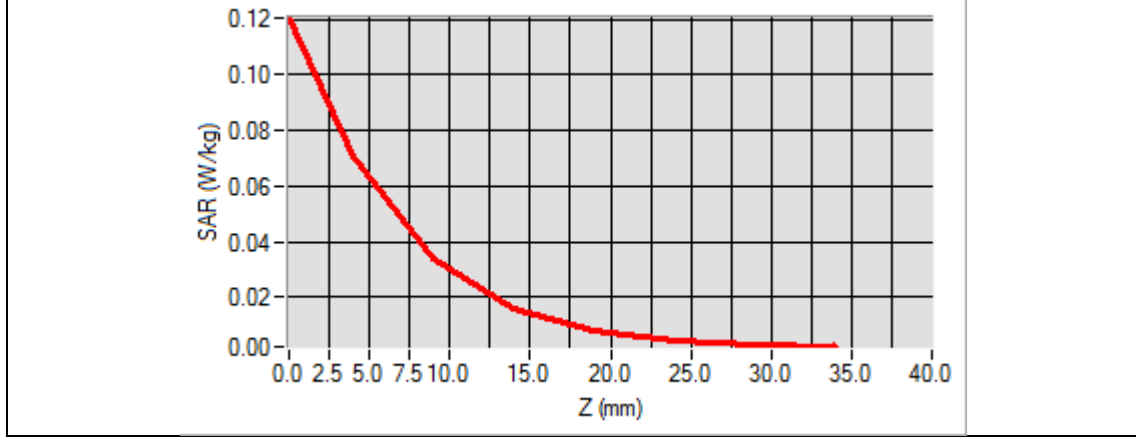


Maximum location: X=-11.00, Y=21.00

SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.029946
SAR 1g (W/Kg)	0.064435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1205	0.0706	0.0339	0.0162	0.0080	0.0044	0.0027



Test Laboratory: AGC Lab
LTE Band 38 Mid-Edge 4 (1 RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

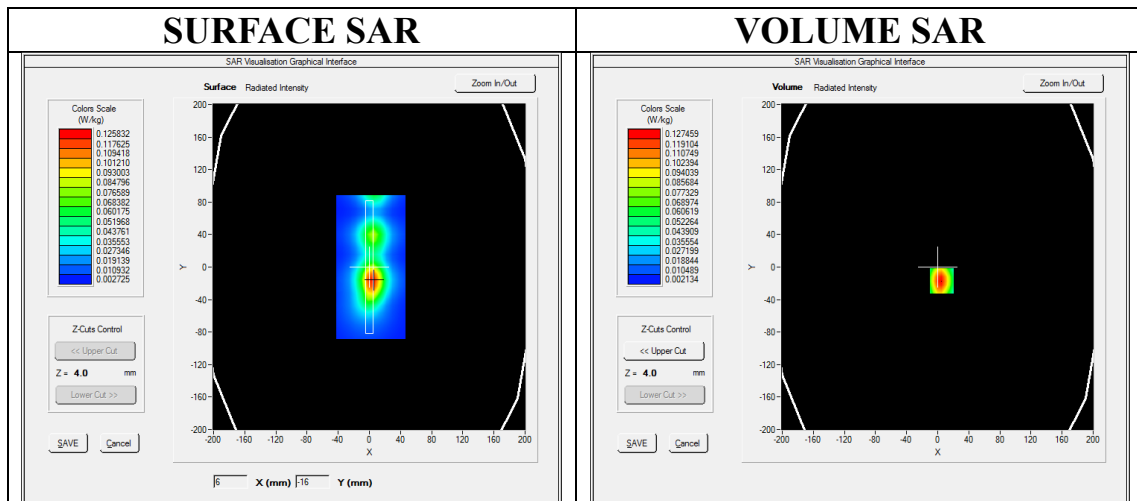
Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=3.77;
Frequency: 2595 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 38.15$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 38 Mid-Edge 4/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 38 Mid-Edge 4/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

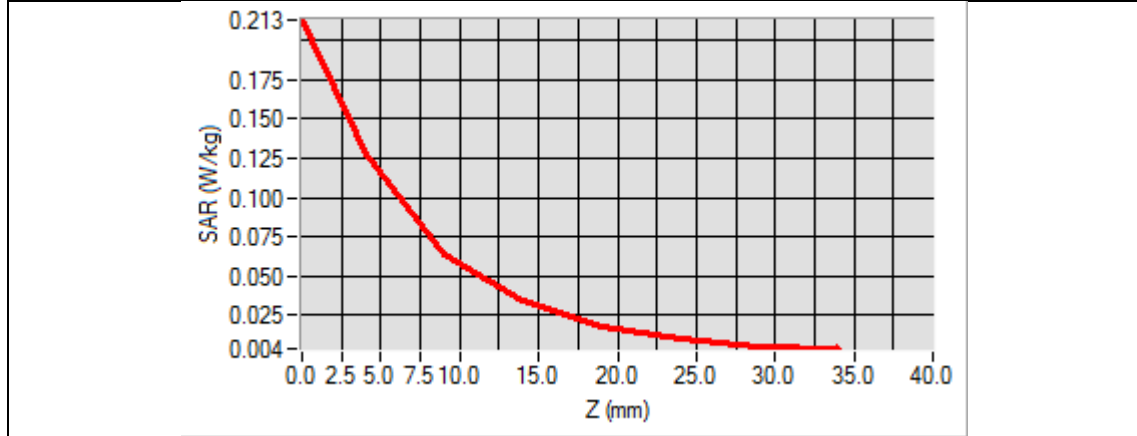
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	ELLI
Device Position	Edge 4
Band	LTE Band 38
Channels	Middle
Signal	Crest factor: 1.58



Maximum location: X=5.00, Y=-17.00
SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.061792
SAR 1g (W/Kg)	0.121466

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.2131	0.1275	0.0642	0.0338	0.0179	0.0099	0.0054



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
LTE Band 40 Mid-Touch-Left (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 13,2020

Communication System: LTE; Communication System Band: LTE Band 40; Duty Cycle:63.33%; Conv.F=4.58
Frequency: 2350MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.64$ mho/m; $\epsilon_r = 39.34$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

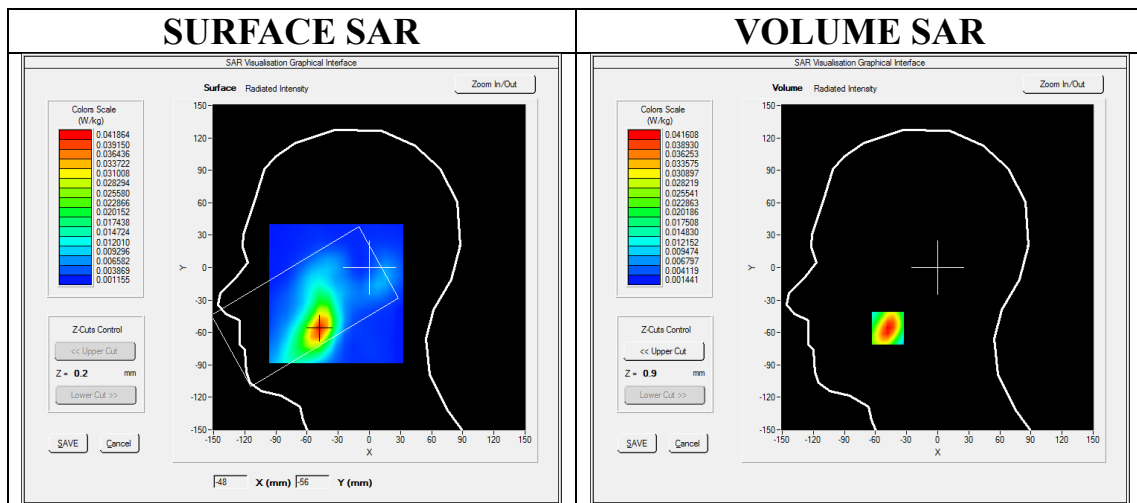
SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 40 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, y=8mm

Configuration/ LTE Band 40 Mid-Touch-Left/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	Left head
Device Position	Cheek
Band	LTE Band 40
Channels	Middle
Signal	OFDM (Crest factor: 1.58)

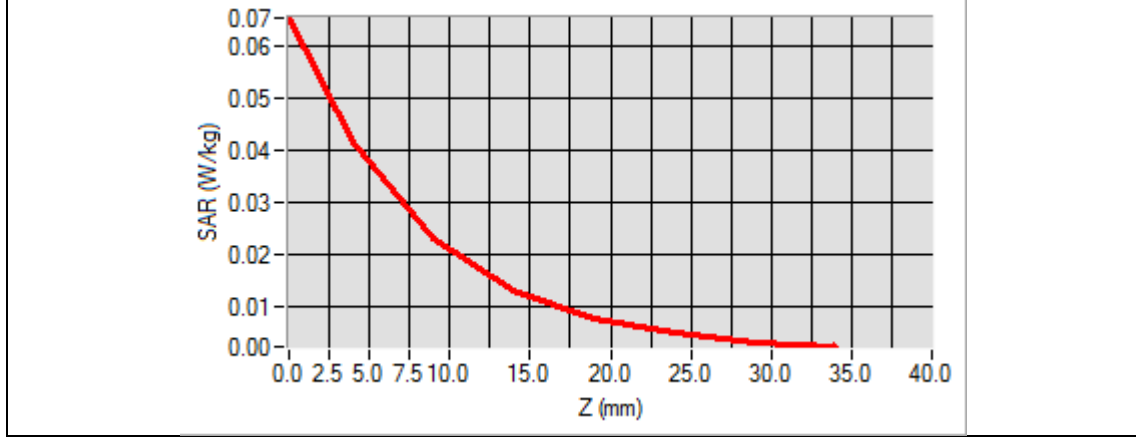


Maximum location: X=-48.00, Y=-56.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.020409
SAR 1g (W/Kg)	0.038809

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0652	0.0416	0.0231	0.0132	0.0077	0.0048	0.0031



3D screen shot	Hot spot position
<p>A 3D model of a human head and neck, rendered in light gray. A blue grid is overlaid on the face, showing a color-coded SAR distribution. The highest SAR values (red/yellow) are concentrated in the central part of the face, while lower values (blue) are seen towards the edges and back of the head.</p>	<p>A 3D model of a human head and neck, rendered in light gray. A color-coded hot spot visualization is overlaid on the face. The hot spot is a circular area of high intensity (red/yellow) located in the central part of the face, surrounded by a green and blue gradient, indicating decreasing SAR intensity.</p>

Test Laboratory: AGC Lab
LTE Band 40 Mid-Edge 4 (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 13,2020

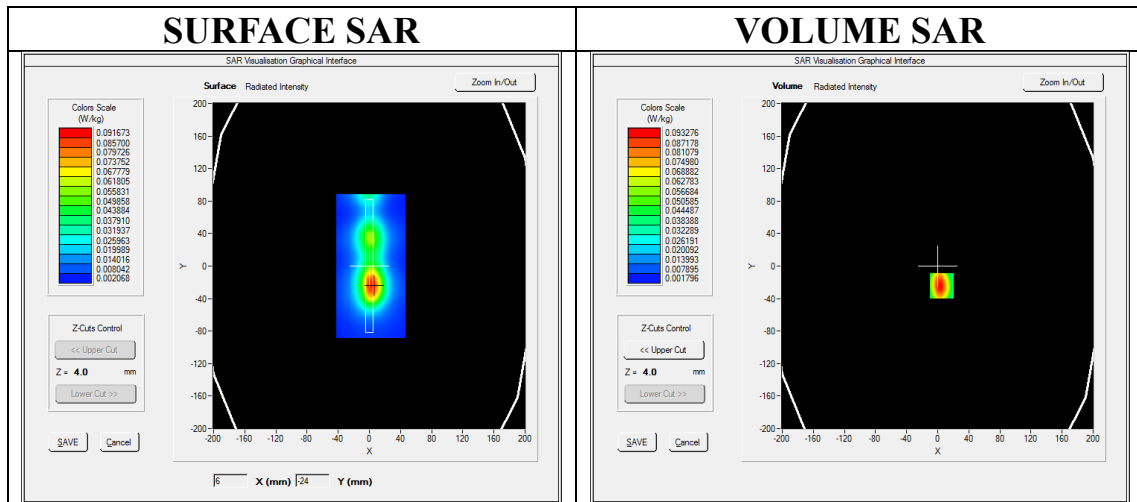
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:63.33%; Conv.F=4.58
Frequency: 2350MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.64$ mho/m; $\epsilon_r = 39.34$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 40 Mid-Edge 4 /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE Band 40 Mid-Edge 4 /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

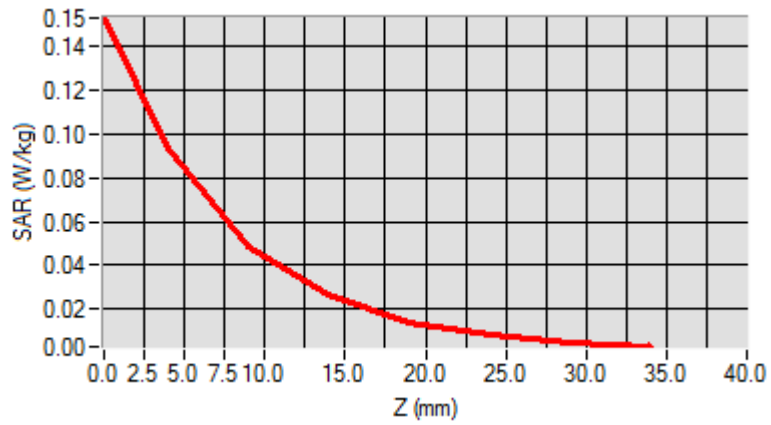
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 4
Band	LTE Band 40
Channels	Middle
Signal	OFDM (Crest factor: 1.58)



Maximum location: X=5.00, Y=-24.00
SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.046296
SAR 1g (W/Kg)	0.089400

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1529	0.0933	0.0484	0.0263	0.0143	0.0081	0.0047



3D screen shot	Hot spot position

Test Laboratory: AGC Lab
LTE Band 41 Mid-Right Tilt (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

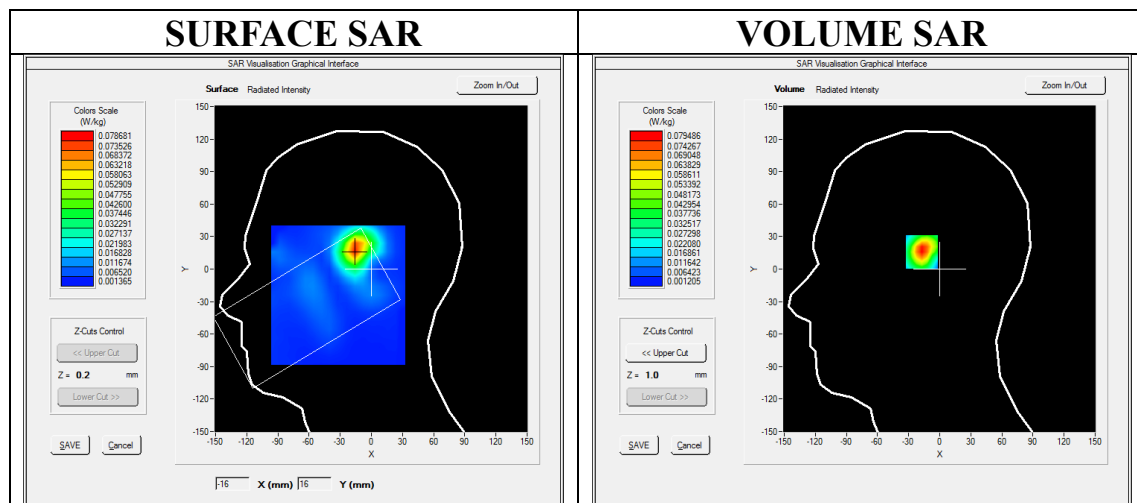
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=3.77
Frequency: 2605 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.4 Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 41 Mid-Right Tilt/Area Scan: Measurement grid: dx=8mm, y=8mm
Configuration/ LTE BAND 41 Mid-Right Tilt/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 Tilt
Device Position	Cheek
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)

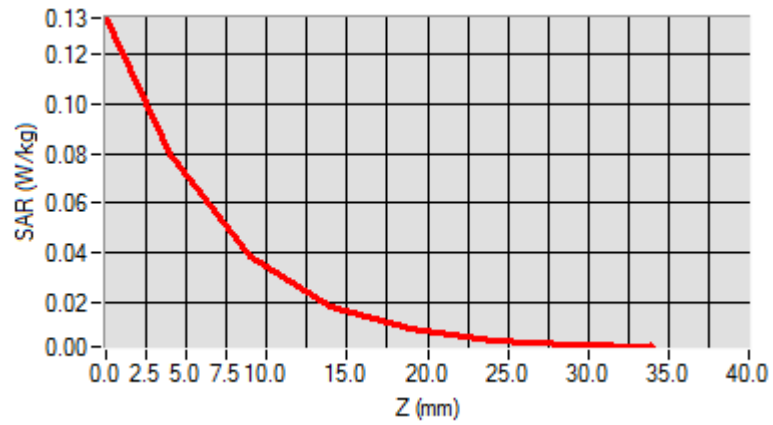


Maximum location: X=-16.00, Y=17.00

SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.033681
SAR 1g (W/Kg)	0.073583

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1345	0.0795	0.0386	0.0187	0.0093	0.0049	0.0031



3D screen shot	Hot spot position
<p>A 3D perspective view of a hand holding a mobile phone. A grid of small colored squares is overlaid on the phone's surface, representing the SAR distribution. The colors range from blue (low SAR) to red (high SAR), with the highest values concentrated on the top surface of the phone.</p>	<p>A 3D perspective view of a hand holding a mobile phone. A heatmap is overlaid on the phone's surface, showing a distinct red and yellow 'hot spot' on the top surface, indicating the area of maximum SAR exposure.</p>

Test Laboratory: AGC Lab
LTE Band 41 Mid-Edge 3 (1RB#0)
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 17,2020

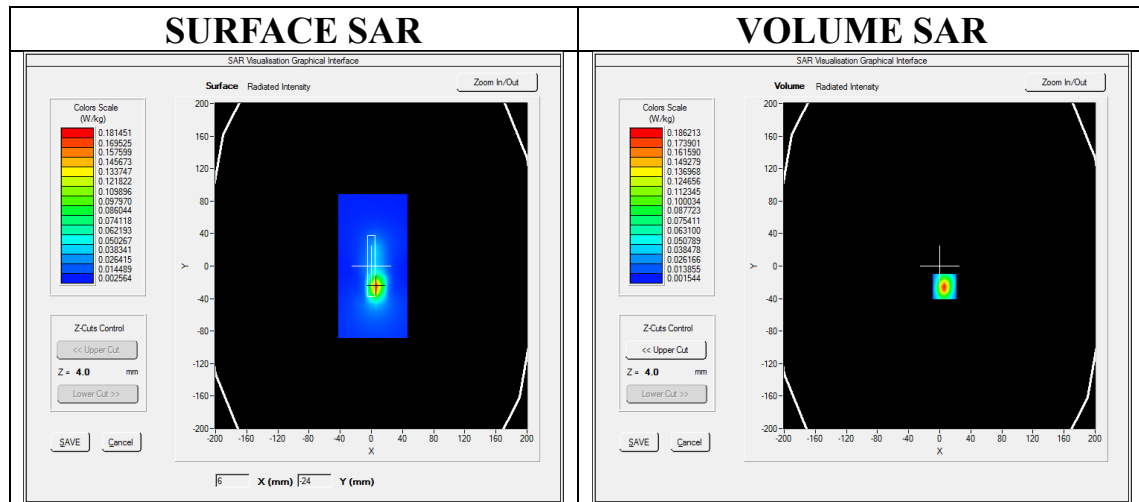
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=3.77
Frequency: 2605 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 41 Mid-Edge 3 /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 41 Mid-Edge 3 /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

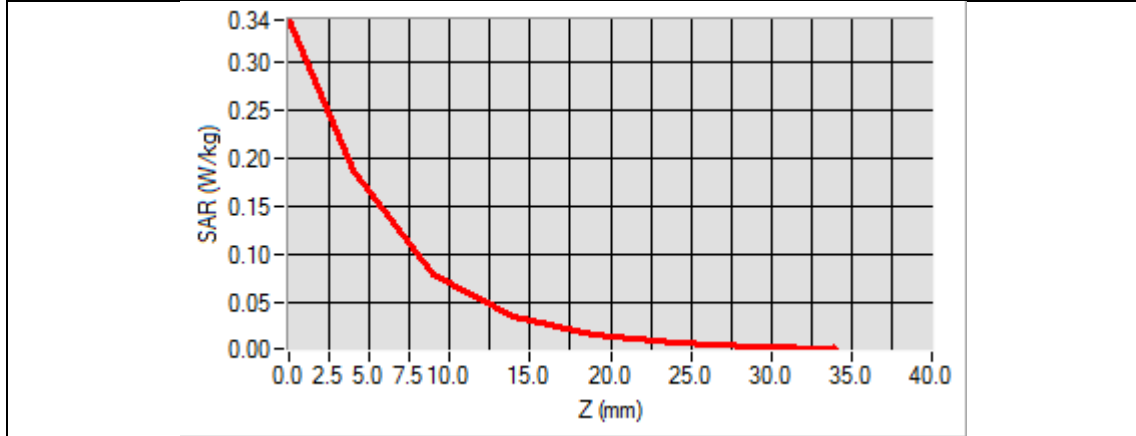
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Edge 3
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)



Maximum location: X=6.00, Y=-25.00
SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.061751
SAR 1g (W/Kg)	0.162101

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3426	0.1862	0.0784	0.0352	0.0162	0.0079	0.0043



3D screen shot	Hot spot position
<p>A 3D perspective view of a white, shallow bowl. A blue grid is overlaid on the bottom surface of the bowl, indicating the location of the hot spot.</p>	<p>A vertical heatmap showing the distribution of SAR. The central region of the bowl's base is highlighted in red and yellow, indicating the highest SAR values (the hot spot). The intensity decreases through green and cyan to blue at the edges.</p>

WIFI MODE

Test Laboratory: AGC Lab

802.11b Mid-Touch-Left

DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 26,2020

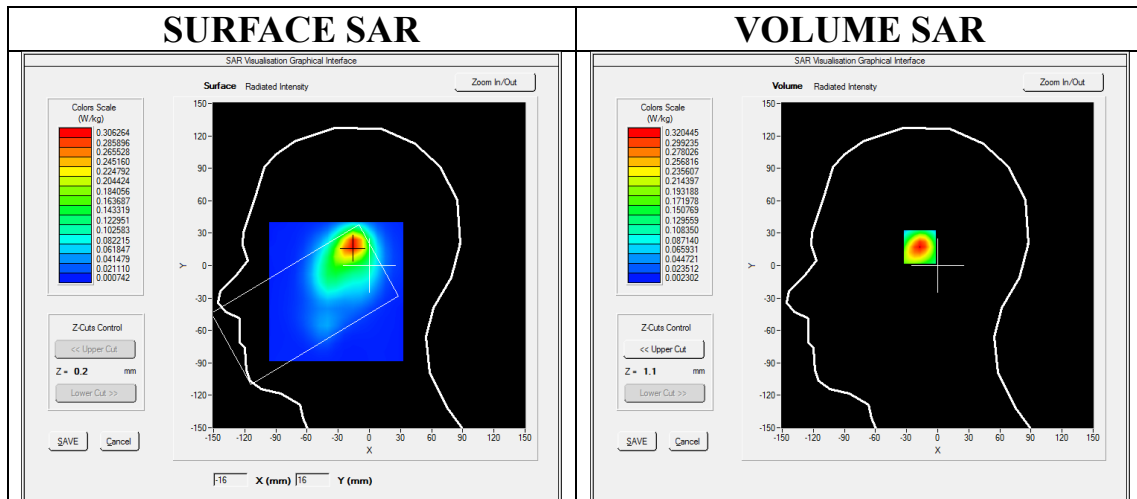
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.12;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r 41.82$ $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21.5, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/802.11b Mid- Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Touch-Left/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	Left head
Device Position	Cheek
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

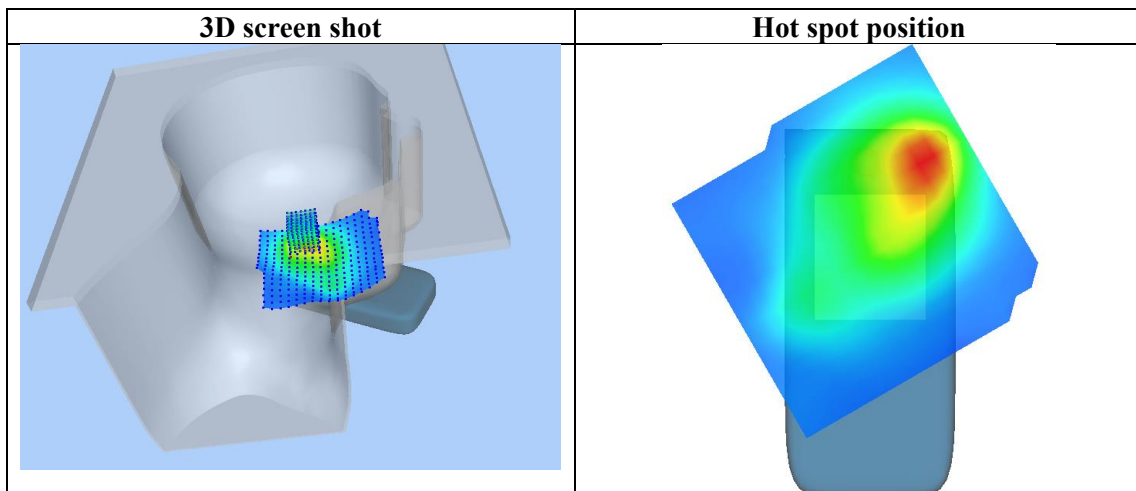
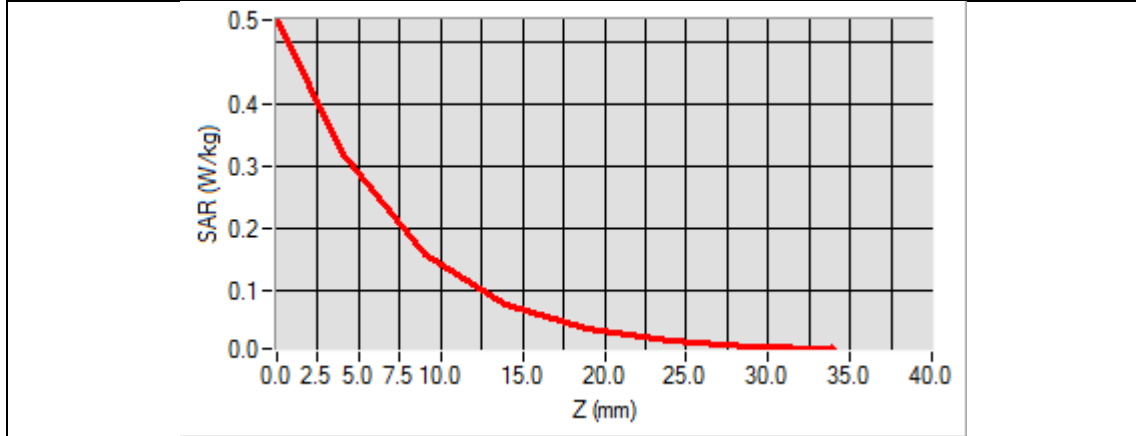


Maximum location: X=-16.00, Y=19.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.142986
SAR 1g (W/Kg)	0.297432

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5362	0.3204	0.1582	0.0766	0.0369	0.0182	0.0093



Test Laboratory: AGC Lab
802.11b Mid-Body-Worn- Back
DUT: Smart Phone; Type: Mara Phones Z1

Date: Apr. 26,2020

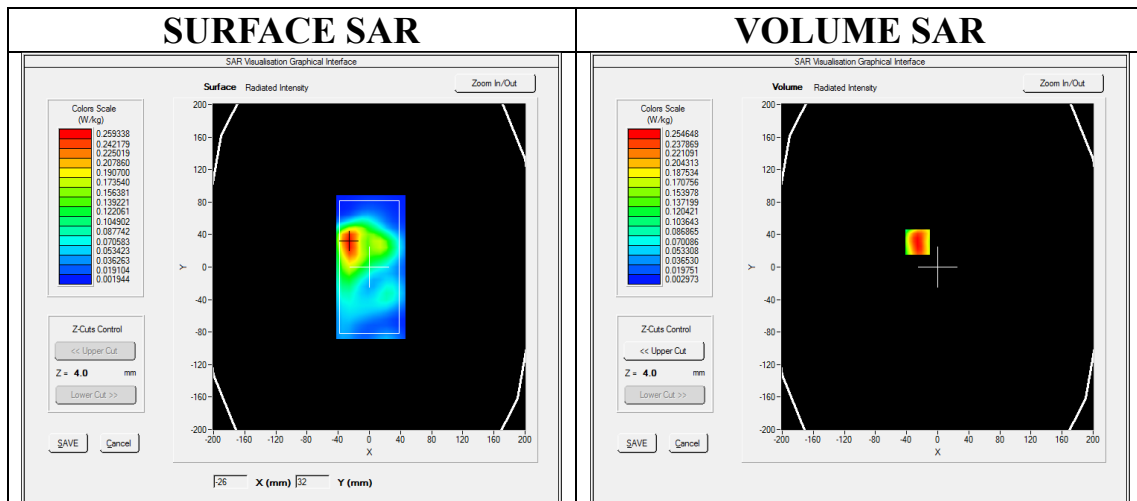
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.12;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 41.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21.5, Liquid temperature (°C): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Jun. 04,2019; Serial No.: SN 22/16 EP315
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 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	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	ELLI
Device Position	Body Back
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0

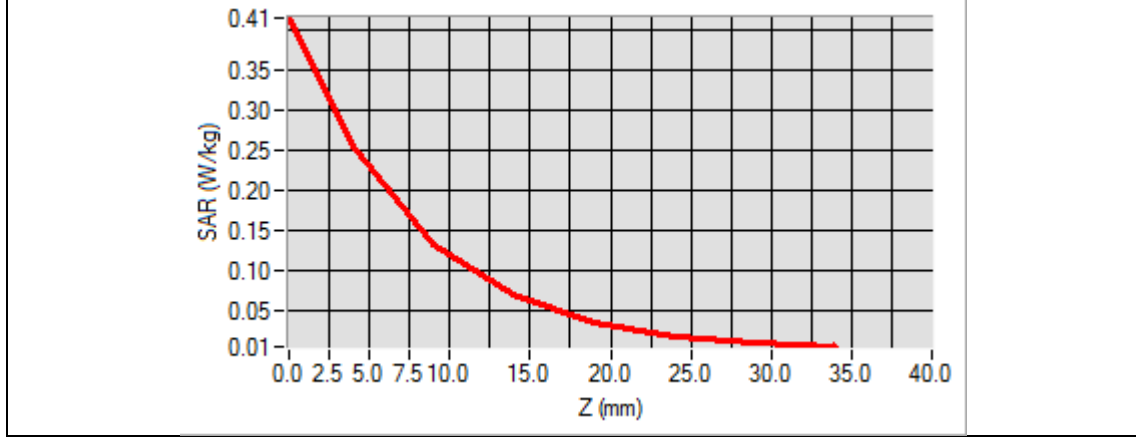


Maximum location: X=-26.00, Y=31.00

SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.130989
SAR 1g (W/Kg)	0.243048

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4145	0.2546	0.1320	0.0701	0.0356	0.0185	0.0098

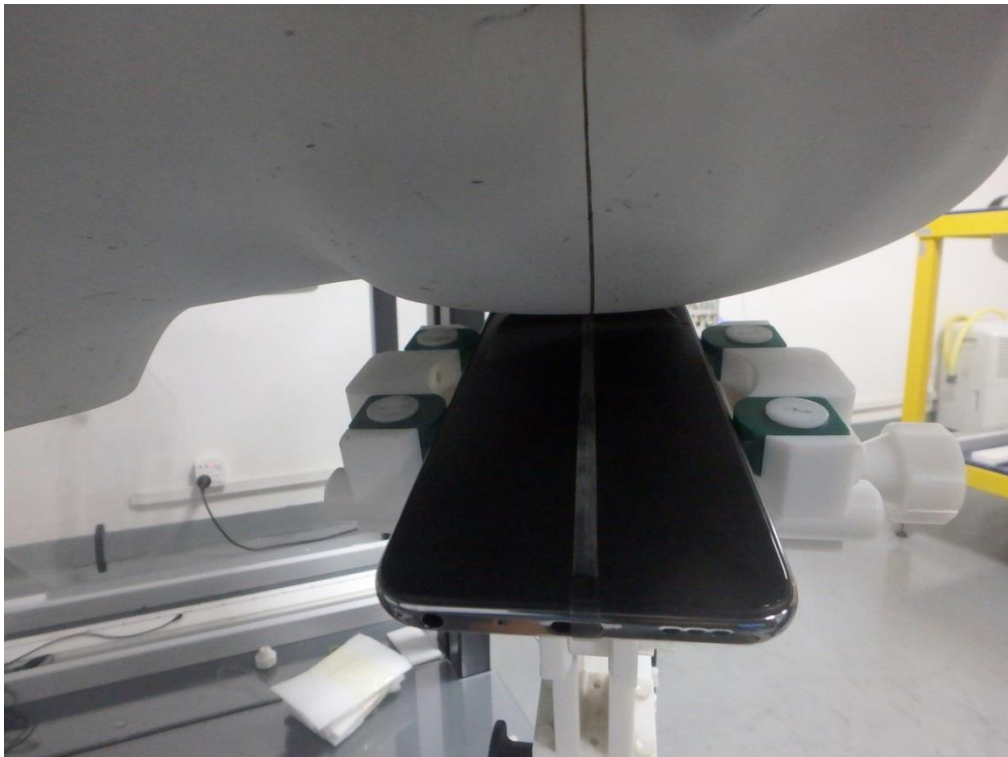


3D screen shot	Hot spot position

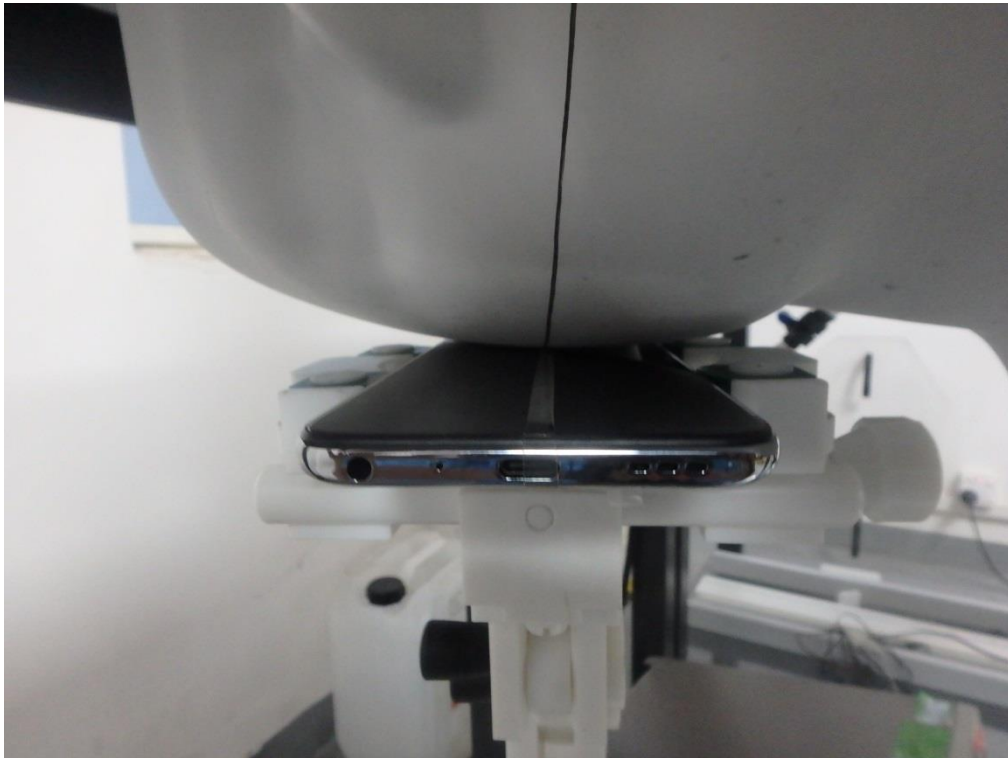
APPENDIX C. TEST SETUP PHOTOGRAPHS
LEFT-CHEEK TOUCH



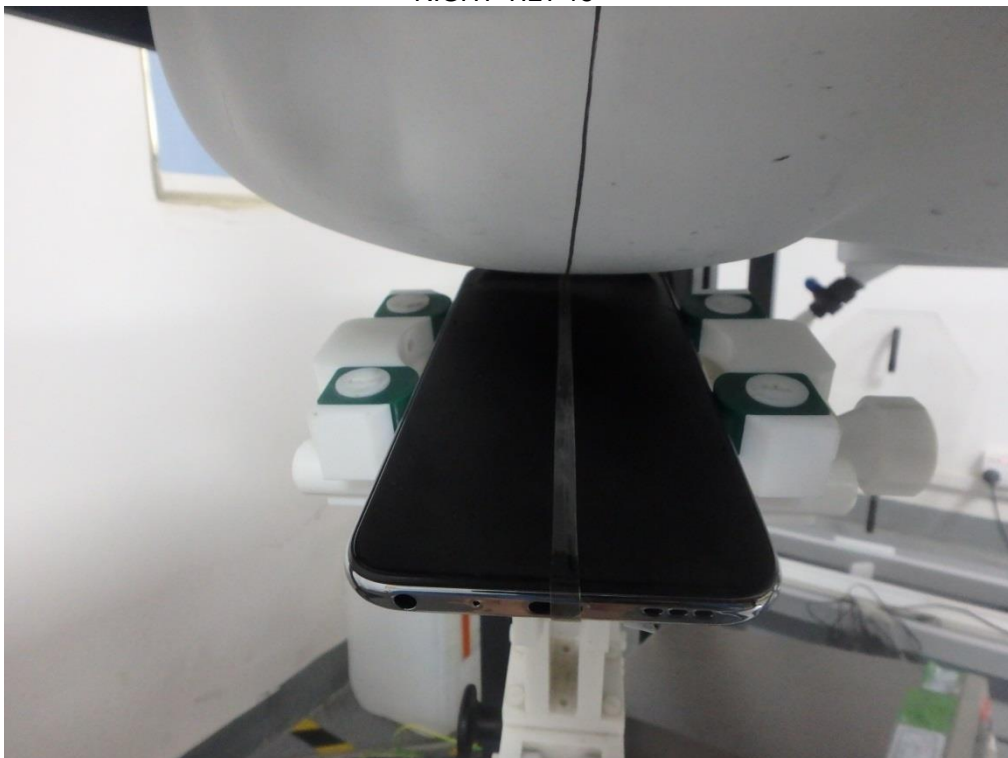
LEFT-TILT 15°



RIGHT- CHEEK TOUCH



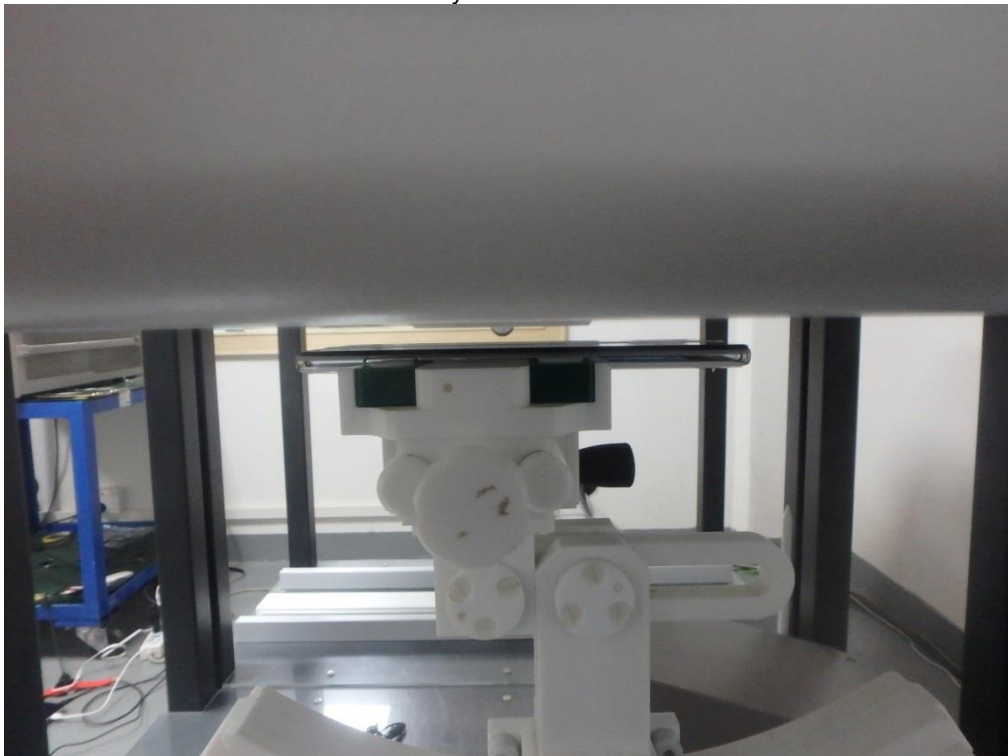
RIGHT-TILT 15°



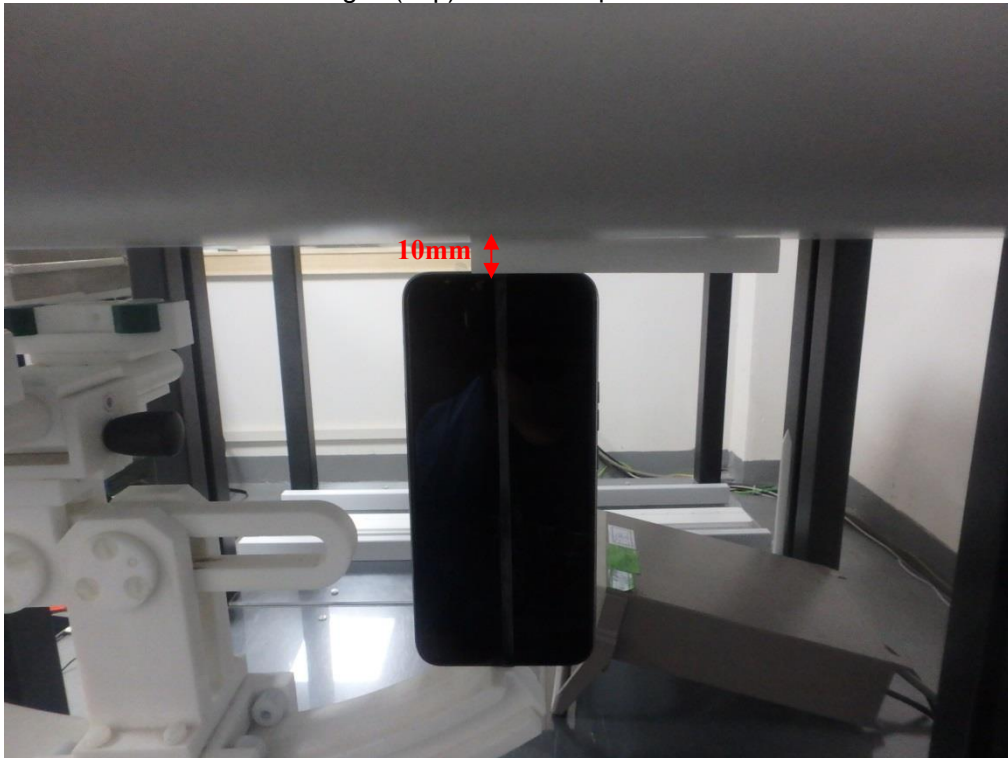
Body Back 10mm



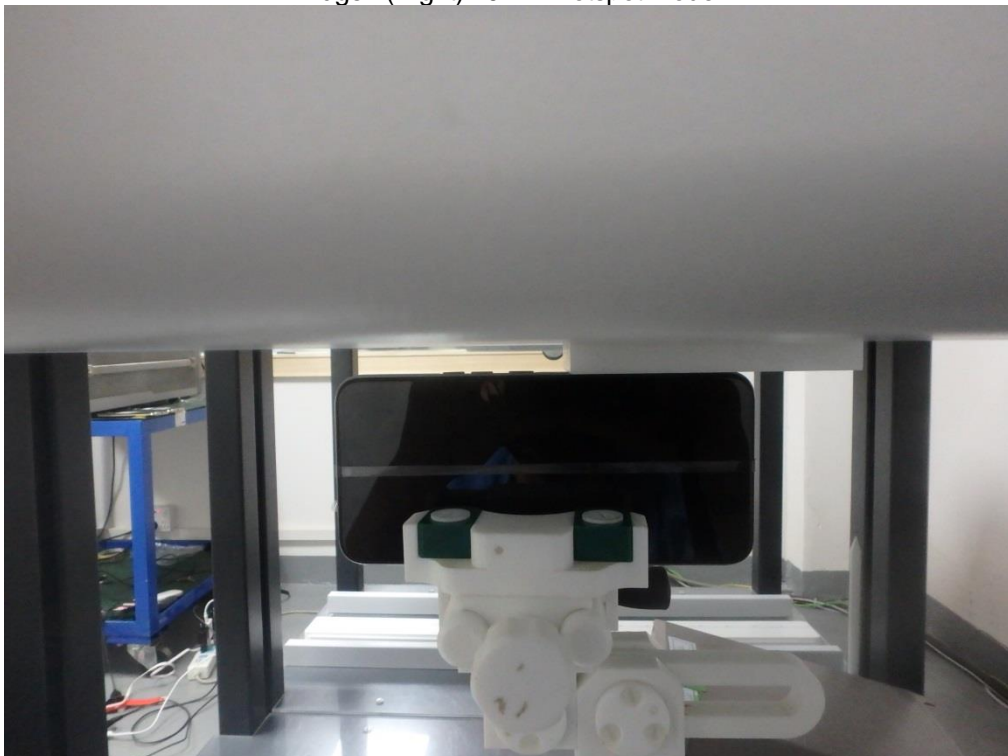
Body Front 10mm



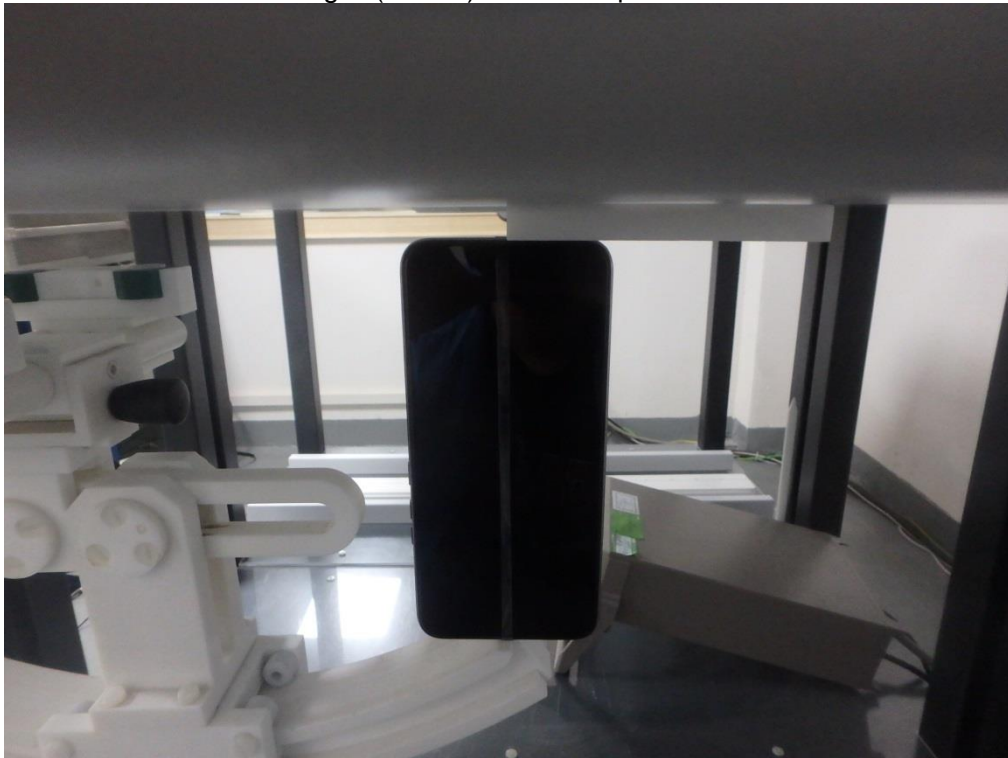
Edge 1(Top) 10mm-Hotspot Mode



Edge 2(Right) 10mm-Hotspot Mode



Edge 3(Bottom) 10mm-Hotspot Mode

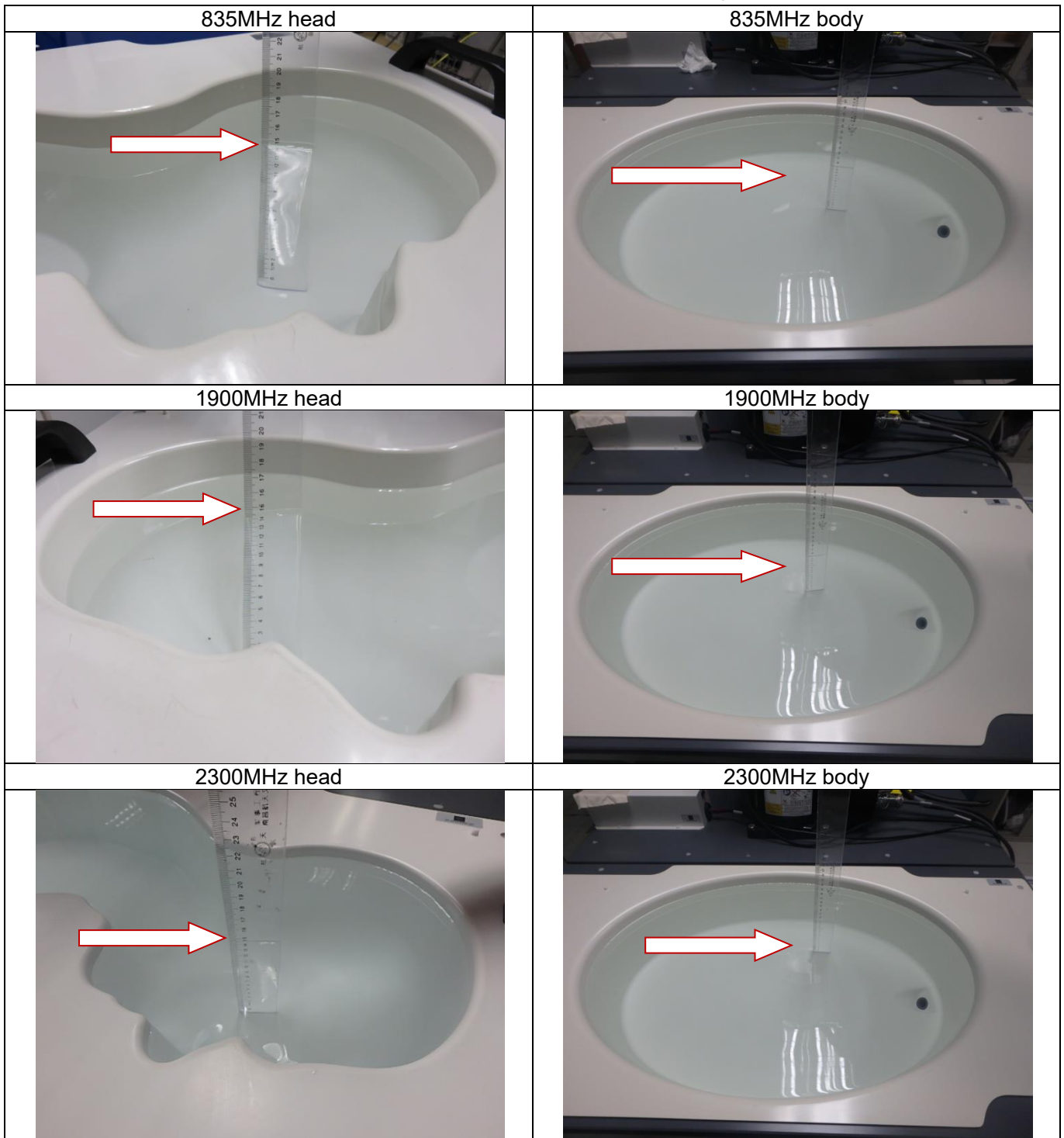


Edge 4(Left) 10mm-Hotspot Mode



DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

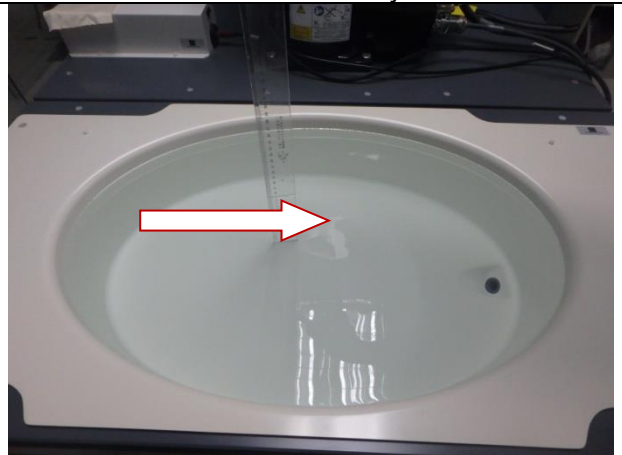
Note : The position used in the measurement were according to IEEE 1528-2013



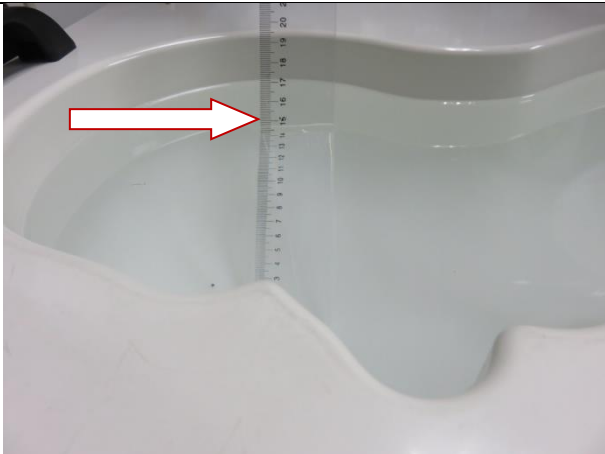
2450MHz head



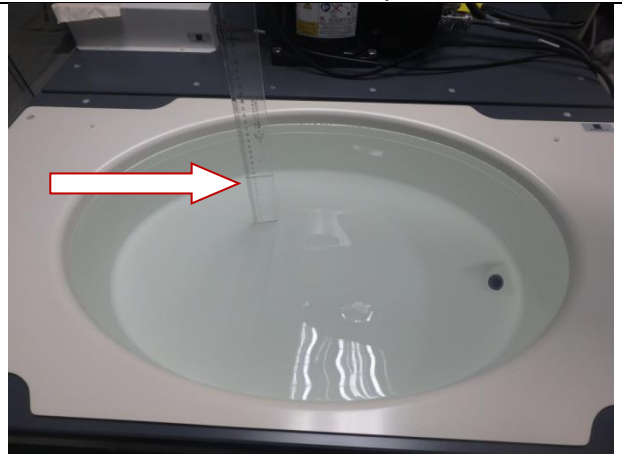
2450MHz body



2600MHz head



2600MHz body



APPENDIX D. CALIBRATION DATA

Refer to Attached files.