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# Appendix B

## Detailed Test Results

1. 5G NR
NR Band n7 for Head & Body
NR Band n41 for Head & Body

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N7 QPSK 50M 135RB67 505000CH Right cheek Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585694883A0000**

Communication System: UID 0, NR (0); Frequency: 2525 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2525$  MHz;  $\sigma = 1.884$  S/m;  $\epsilon_r = 39.956$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7, 7, 7); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.550 W/kg

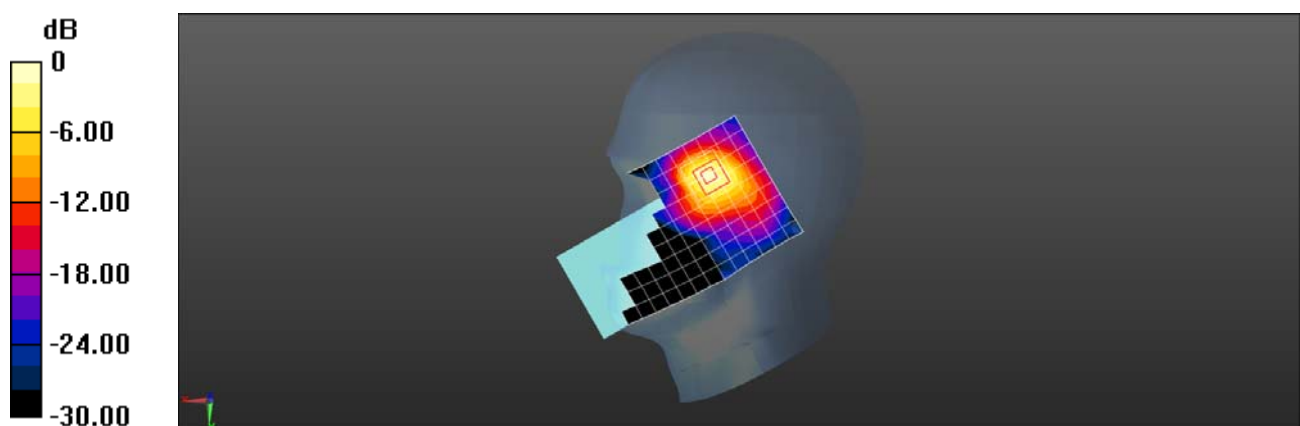
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.615 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.450 W/kg; SAR(10 g) = 0.196 W/kg**

Maximum value of SAR (measured) = 0.745 W/kg



0 dB = 0.745 W/kg = -1.28 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N7 QPSK 50M 135RB67 509000CH Back side 15mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585694883A0000**

Communication System: UID 0, NR (0); Frequency: 2545 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2545$  MHz;  $\sigma = 1.908$  S/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7, 7, 7); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.663 W/kg

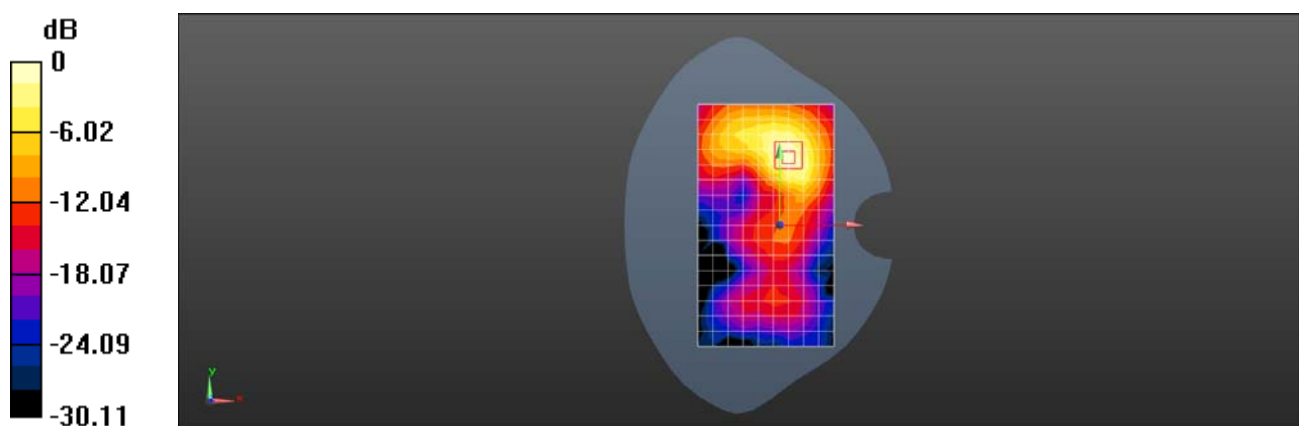
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.584 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.946 W/kg

**SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.239 W/kg**

Maximum value of SAR (measured) = 0.704 W/kg



0 dB = 0.704 W/kg = -1.52 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N7 QPSK 50M 135RB67 509000CH Back side 10mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2545 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2545$  MHz;  $\sigma = 1.908$  S/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7, 7, 7); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.322 W/kg

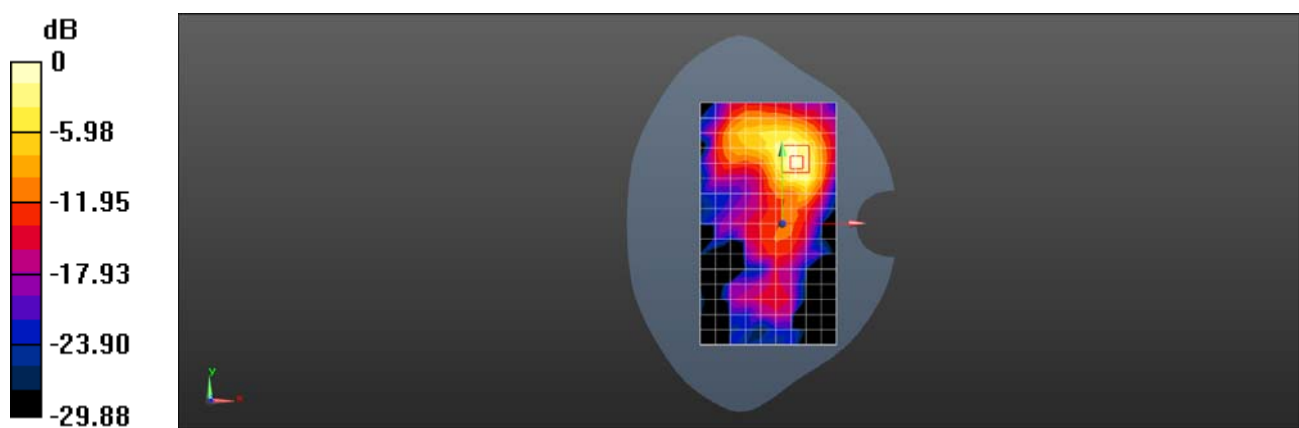
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.230 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.503 W/kg

**SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.107 W/kg**

Maximum value of SAR (measured) = 0.354 W/kg



0 dB = 0.354 W/kg = -4.51 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N7 QPSK 50M 135RB67 507000CH Left side 0mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.897$  S/m;  $\epsilon_r = 39.934$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(7, 7, 7); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (6x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 3.71 W/kg

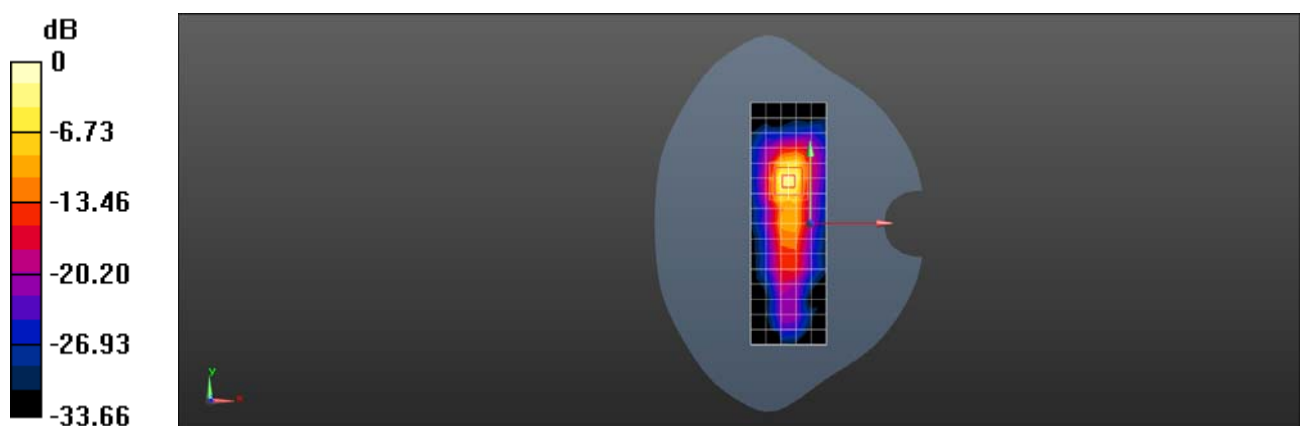
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.04 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 11.5 W/kg

**SAR(1 g) = 4.16 W/kg; SAR(10 g) = 1.45 W/kg**

Maximum value of SAR (measured) = 7.65 W/kg



0 dB = 7.65 W/kg = 8.84 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N41 QPSK 100M 135RB69 518598CH Right cheek Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585694883A0000**

Communication System: UID 0, NR (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2593$  MHz;  $\sigma = 1.96$  S/m;  $\epsilon_r = 39.753$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.79, 6.79, 6.79); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.442 W/kg

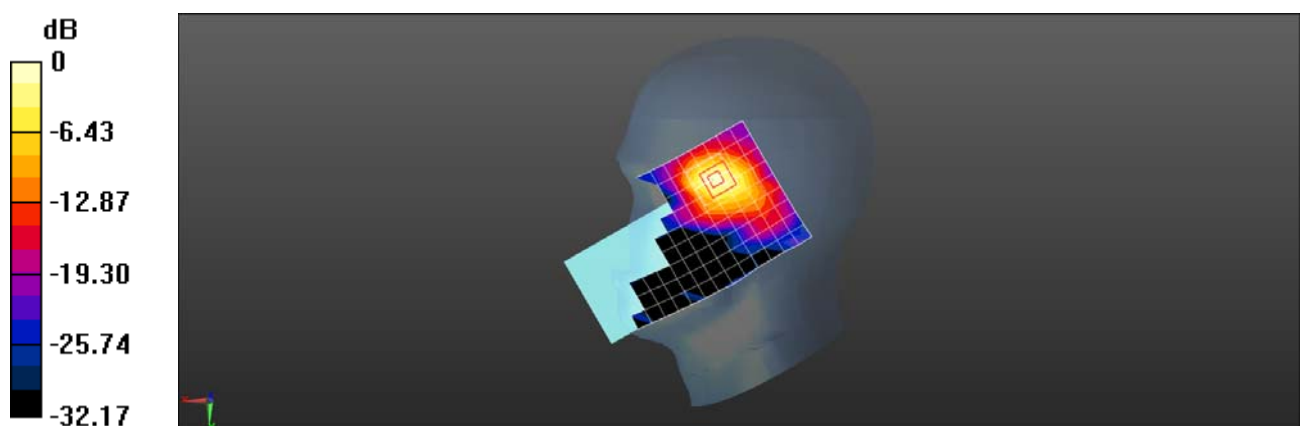
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.944 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.804 W/kg

**SAR(1 g) = 0.323 W/kg; SAR(10 g) = 0.136 W/kg**

Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.538 W/kg = -2.69 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N41 QPSK 100M 135RB69 523302CH Back side 15mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2616.51 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used:  $f = 2617$  MHz;  $\sigma = 1.988$  S/m;  $\epsilon_r = 39.661$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.79, 6.79, 6.79); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.750 W/kg

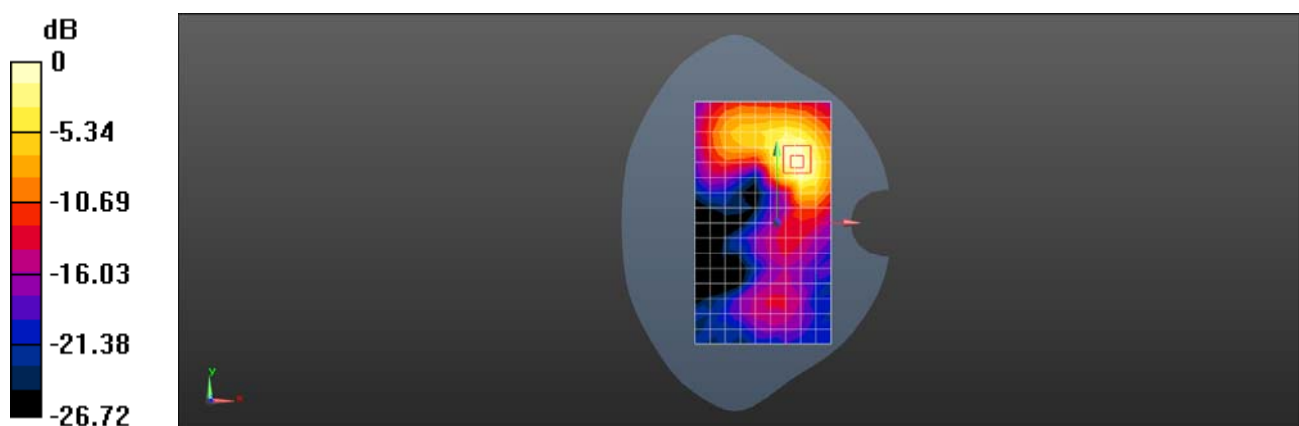
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.380 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.258 W/kg**

Maximum value of SAR (measured) = 0.765 W/kg



0 dB = 0.765 W/kg = -1.16 dBW/kg

Test Laboratory: SGS-SAR Lab

## V2050 5G NR N41 QPSK 100M 135RB0 513900CH Back side 10mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2569.5 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used (interpolated):  $f = 2569.5$  MHz;  $\sigma = 1.938$  S/m;  $\epsilon_r = 39.828$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.79, 6.79, 6.79); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.359 W/kg

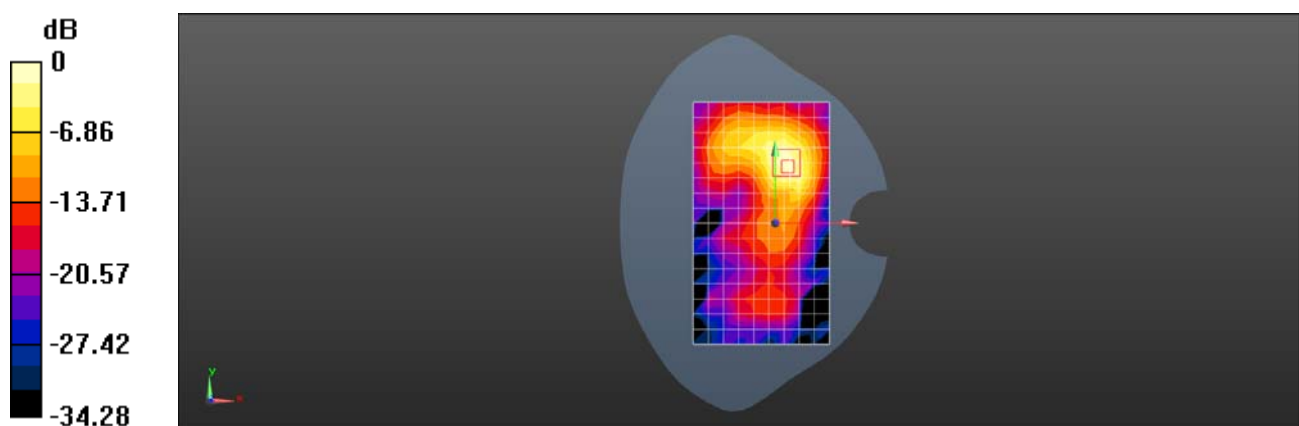
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.951 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.541 W/kg

**SAR(1 g) = 0.246 W/kg; SAR(10 g) = 0.114 W/kg**

Maximum value of SAR (measured) = 0.379 W/kg



0 dB = 0.379 W/kg = -4.21 dBW/kg



Test Laboratory: SGS-SAR Lab

## V2050 5GNR N41 QPSK 100M 135RB69 513900CH Back side 10mm Ant11

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2569.5 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used (interpolated):  $f = 2569.5$  MHz;  $\sigma = 1.938$  S/m;  $\epsilon_r = 39.828$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.79, 6.79, 6.79); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.271 W/kg

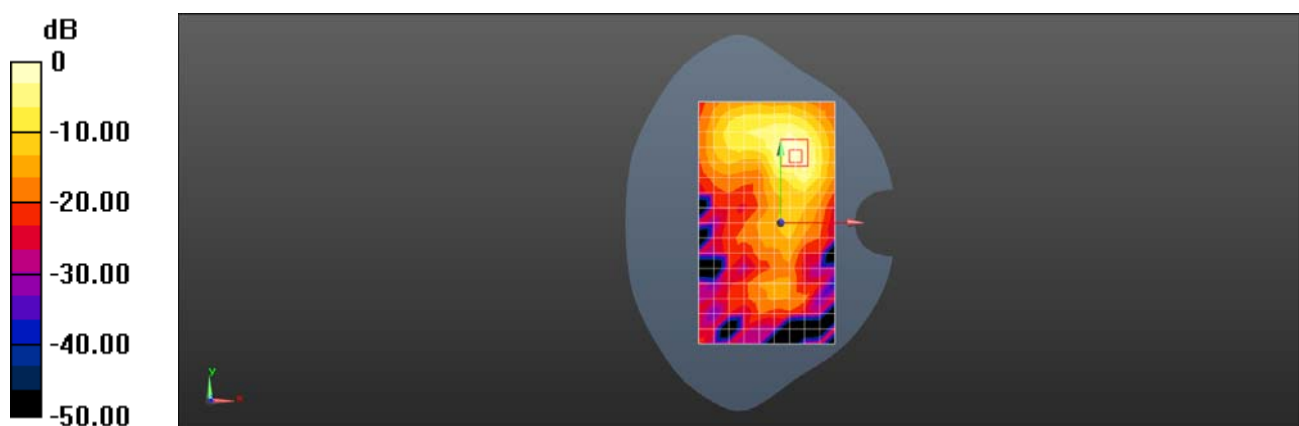
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.149 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.461 W/kg

**SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.096 W/kg**

Maximum value of SAR (measured) = 0.326 W/kg



0 dB = 0.326 W/kg = -4.87 dBW/kg

Test Laboratory: SGS-SAR Lab

**V2050 5GNR N41 QPSK 100M 135RB69 513900CH Left side 0mm Ant11**

**DUT: V2050; Type: Mobile Phone; Serial: 9585809014A0000**

Communication System: UID 0, NR (0); Frequency: 2569.5 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used :  $f = 2569.5$  MHz;  $\sigma = 1.938$  S/m;  $\epsilon_r = 39.828$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3748; ConvF(6.79, 6.79, 6.79); Calibrated: 2020-07-29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn702; Calibrated: 2020-08-13
- Phantom: SAM 2; Type: SAM; Serial: 1913
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (6x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 8.13 W/kg

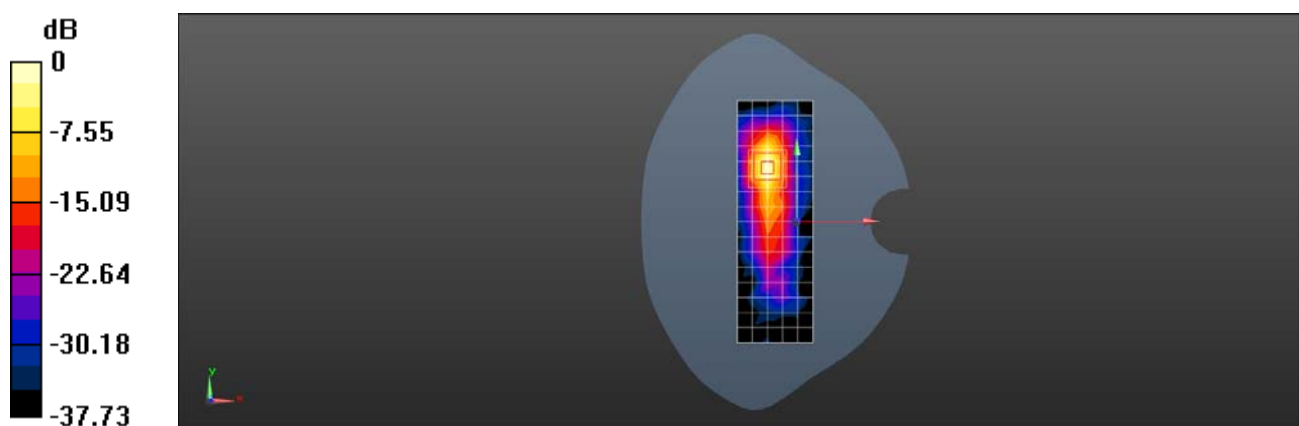
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.45 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 14.4 W/kg

**SAR(1 g) = 4.58 W/kg; SAR(10 g) = 1.48 W/kg**

Maximum value of SAR (measured) = 8.84 W/kg



0 dB = 8.84 W/kg = 9.46 dBW/kg