



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250500047701

Rev.: 01

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# Appendix B

## Detailed Test Results

1. WIFI
WIFI 2.4G
WIFI 5G

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Test Laboratory: SGS-SAR Lab

## Helios 700 WIFI2.4G 802.11b 11CH Front side 0mm

**DUT: Helios 700; Type: Intraoral Scanner;**

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2462 MHz; Duty Cycle: 1:1.114

Medium: HSL2450; Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.868$  S/m;  $\epsilon_r = 37.962$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(7.98, 7.98, 7.98); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2024/10/30
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 7.54 W/kg

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

Reference Value = 0.5150 V/m; Power Drift = 0.02 dB

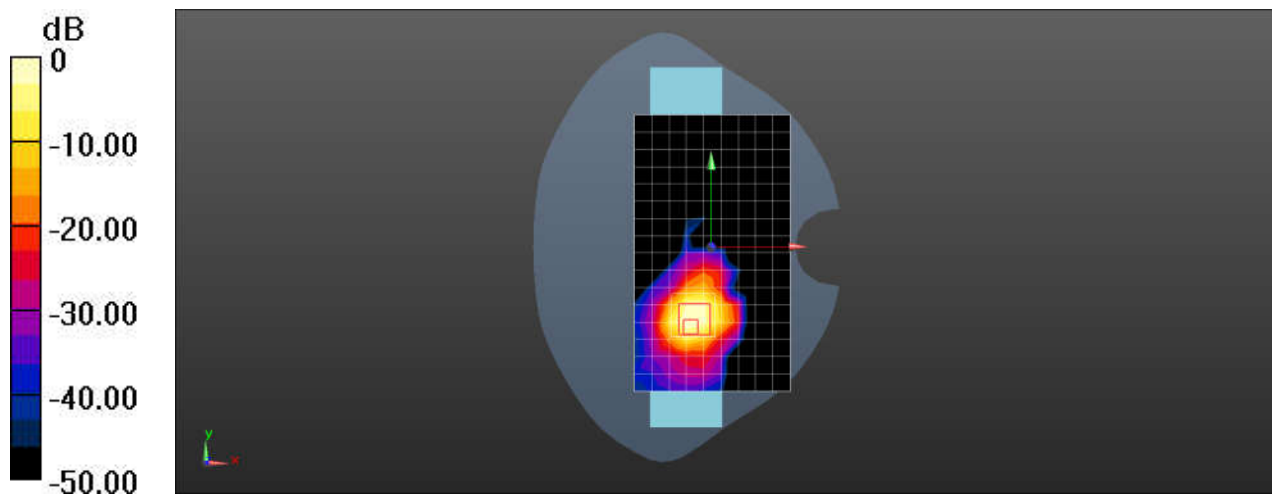
Peak SAR (extrapolated) = 12.9 W/kg

**SAR(1 g) = 3.79 W/kg; SAR(10 g) = 1.45 W/kg**

Smallest distance from peaks to all points 3 dB below = 5 mm

Ratio of SAR at M2 to SAR at M1 = 37.4%

Maximum value of SAR (measured) = 7.90 W/kg



Test Laboratory: SGS-SAR Lab

## Helios 700 WIFI5G 802.11a 52CH Front side 0mm

**DUT: Helios 700; Type: Intraoral Scanner;**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5260 MHz; Duty Cycle: 1:1.015

Medium: HSL5G; Medium parameters used:  $f = 5260 \text{ MHz}$ ;  $\sigma = 4.765 \text{ S/m}$ ;  $\epsilon_r = 36.016$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.6, 5.6, 5.6); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2024/10/30
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (12x21x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) =  $1.74 \text{ W/kg}$

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$

Reference Value =  $0 \text{ V/m}$ ; Power Drift =  $0.09 \text{ dB}$

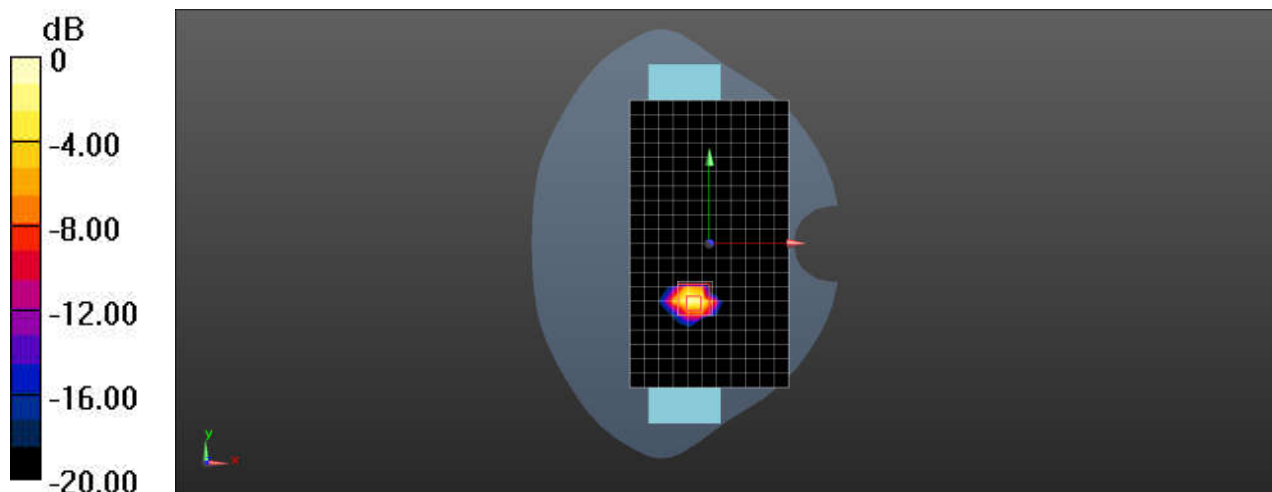
Peak SAR (extrapolated) =  $3.57 \text{ W/kg}$

**SAR(1 g) =  $0.690 \text{ W/kg}$ ; SAR(10 g) =  $0.189 \text{ W/kg}$**

Smallest distance from peaks to all points 3 dB below =  $4 \text{ mm}$

Ratio of SAR at M2 to SAR at M1 =  $63.1\%$

Maximum value of SAR (measured) =  $2.09 \text{ W/kg}$



$0 \text{ dB} = 2.09 \text{ W/kg} = 3.20 \text{ dBW/kg}$

Test Laboratory: SGS-SAR Lab

## Helios 700 WIFI5G 802.11n-HT40 134CH Front side 0mm

**DUT: Helios 700; Type: Intraoral Scanner;**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5670 MHz; Duty Cycle: 1:1.105

Medium: HSL5G; Medium parameters used:  $f = 5670$  MHz;  $\sigma = 5.26$  S/m;  $\epsilon_r = 34.874$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5, 5, 5); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2024/10/30
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (12x21x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 3.83 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 1.231 V/m; Power Drift = 0.01 dB

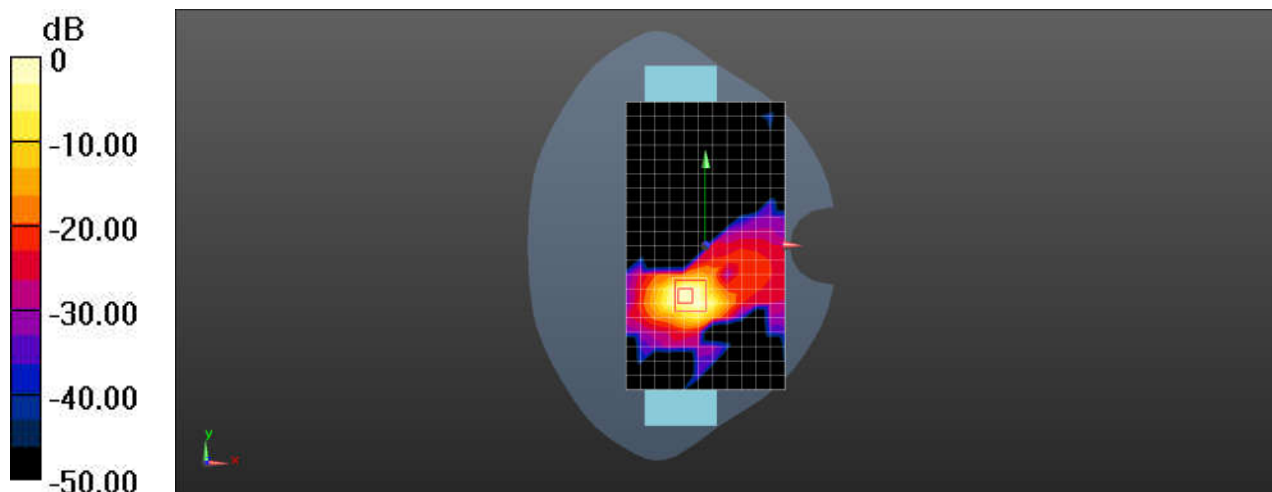
Peak SAR (extrapolated) = 9.83 W/kg

**SAR(1 g) = 1.73 W/kg; SAR(10 g) = 0.529 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.4 mm

Ratio of SAR at M2 to SAR at M1 = 57.5%

Maximum value of SAR (measured) = 5.32 W/kg



0 dB = 3.83 W/kg = 5.83 dBW/kg

Test Laboratory: SGS-SAR Lab

## Helios 700 WIFI5G 802.11ac-VHT40 151CH Front side 0mm

**DUT: Helios 700; Type: Intraoral Scanner;**

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5755 MHz; Duty Cycle: 1:1.104

Medium: HSL5G; Medium parameters used:  $f = 5755$  MHz;  $\sigma = 5.352$  S/m;  $\epsilon_r = 34.626$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN3923; ConvF(5.06, 5.06, 5.06); Calibrated: 2024/11/04
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1374; Calibrated: 2024/10/30
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

**Configuration/Body/Area Scan (12x21x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.798 W/kg

**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.02 dB

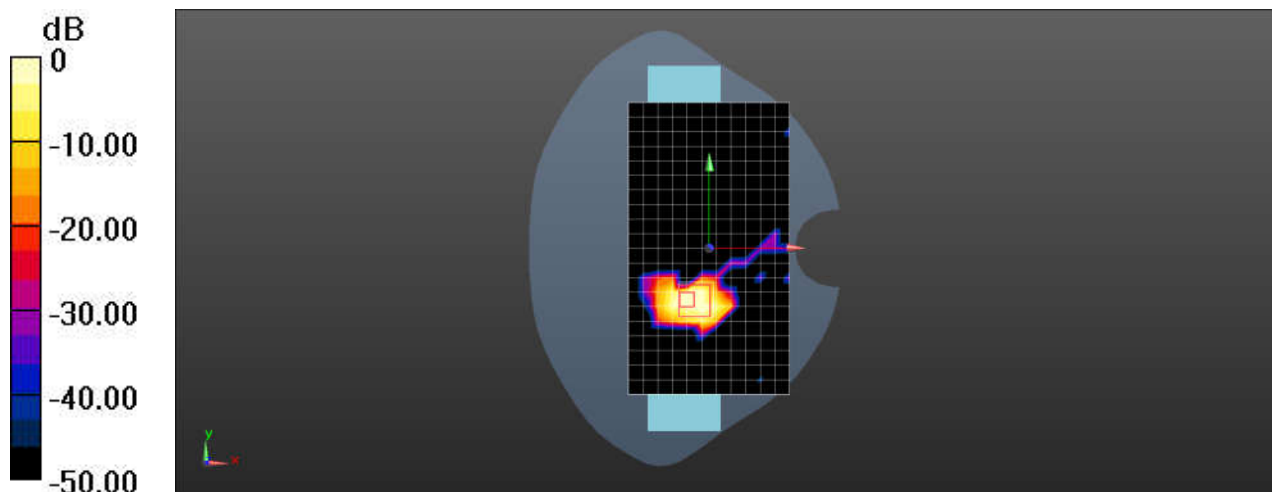
Peak SAR (extrapolated) = 2.66 W/kg

**SAR(1 g) = 0.437 W/kg; SAR(10 g) = 0.117 W/kg**

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg



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