Appendix B
Detailed Test Results

1. WIFI
WIFI 2.4G
WIFI 5G

Date: 2025/06/05

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

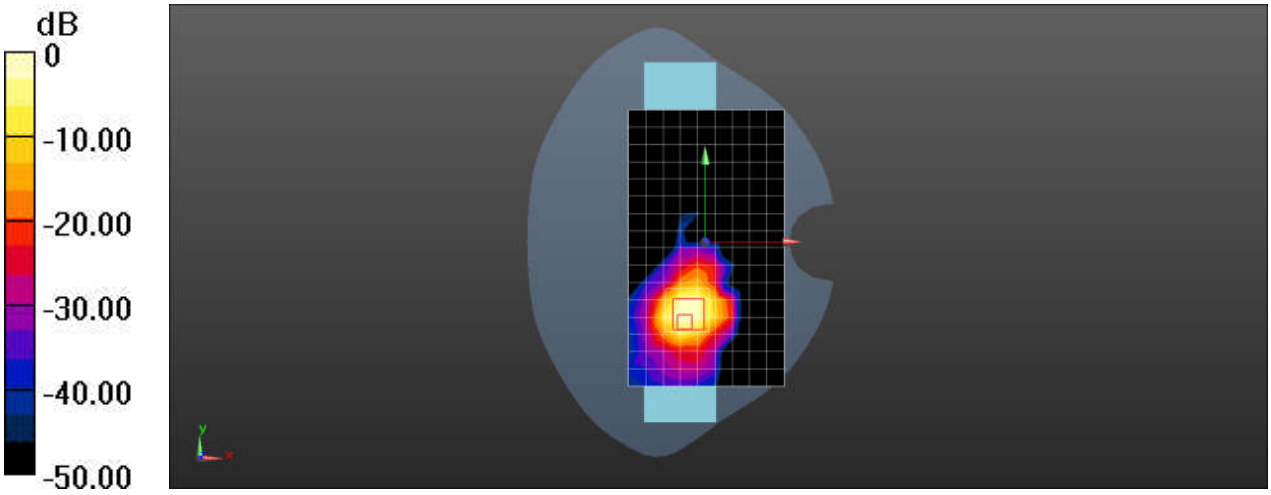
Medium: HSL2450;Medium parameters used: f = 2462 MHz; σ = 1.868 S/m; ε_r = 37.962; ρ = 1000 kg/m^3
Phantom section: Flat Section

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=12mm, dy=12mm
Maximum value of SAR (measured) = 7.54 W/kg

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



0 dB = 7.54 W/kg = 8.77 dBW/kg

Date: 2025/06/07

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

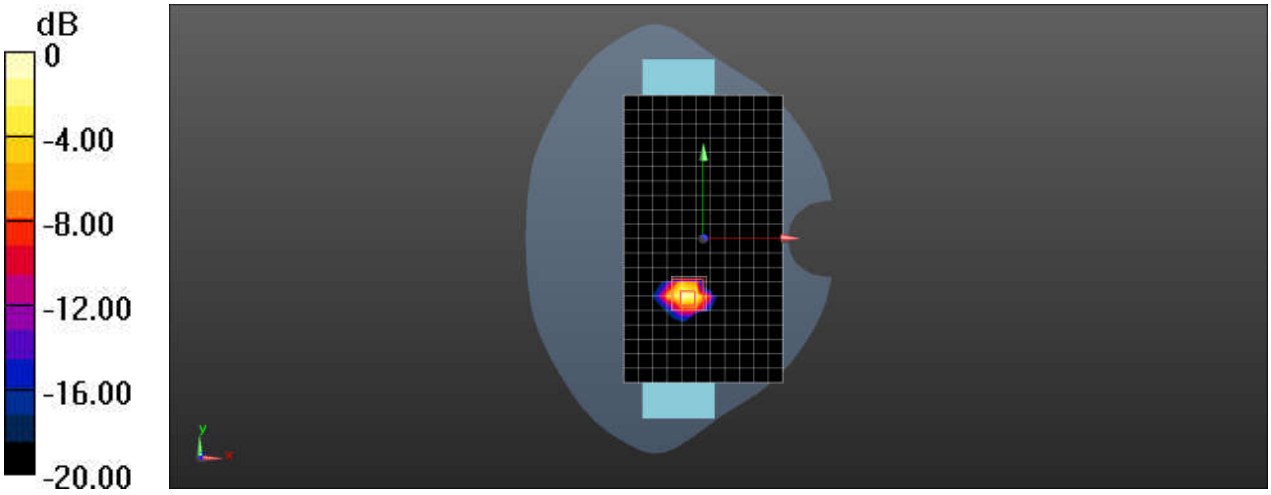
Medium: HSL5G;Medium parameters used: f = 5260 MHz; σ = 4.765 S/m; ε_r = 36.016; ρ = 1000 kg/m^3
Phantom section: Flat Section

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=10mm, dy=10mm
Maximum value of SAR (measured) = 1.74 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.57 W/kg
SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.189 W/kg
Smallest distance from peaks to all points 3 dB below = 4 mm
Ratio of SAR at M2 to SAR at M1 = 63.1%
Maximum value of SAR (measured) = 2.09 W/kg



0 dB = 2.09 W/kg = 3.20 dBW/kg

Date: 2025/06/09

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

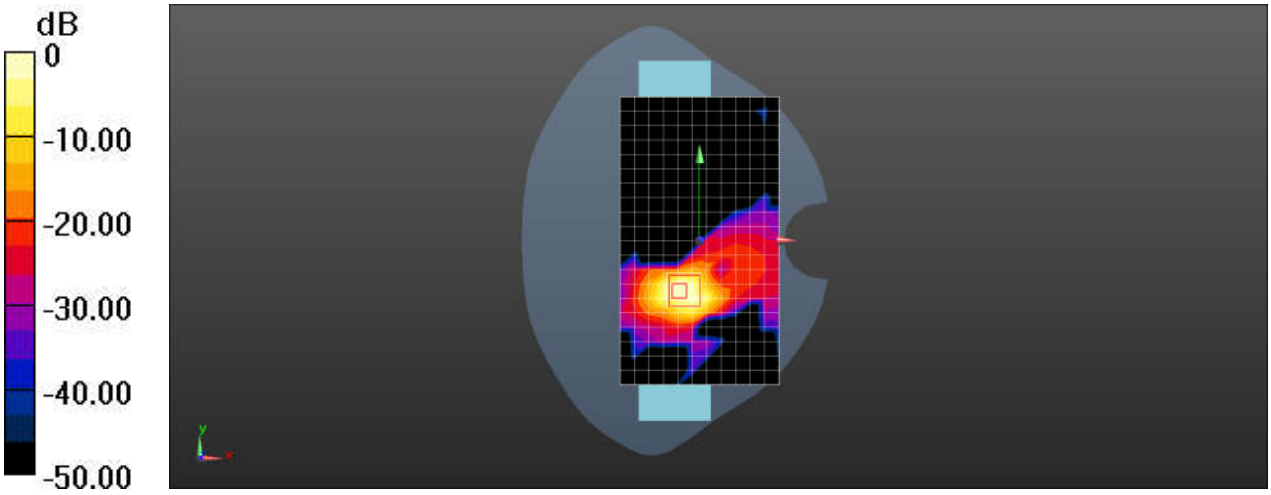
Medium: HSL5G;Medium parameters used: f = 5670 MHz; σ = 5.26 S/m; ε_r = 34.874; ρ = 1000 kg/m^3
Phantom section: Flat Section

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=10mm, dy=10mm
Maximum value of SAR (measured) = 3.83 W/kg

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

Date: 2025/06/10

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

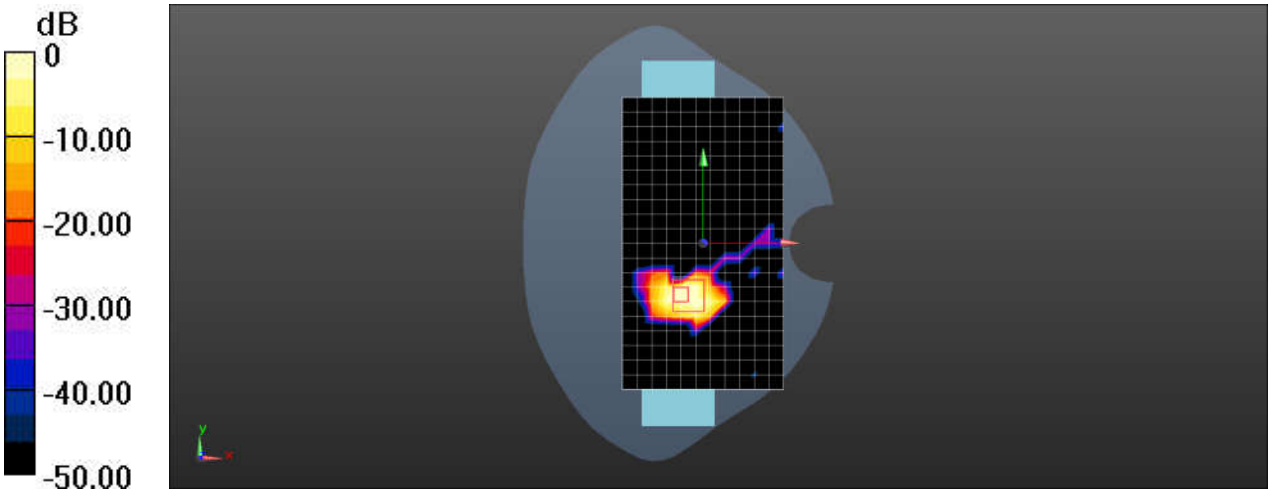
Medium: HSL5G;Medium parameters used: f = 5755 MHz; σ = 5.352 S/m; ε_r = 34.626; ρ = 1000 kg/m^3
Phantom section: Flat Section

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=10mm, dy=10mm
Maximum value of SAR (measured) = 0.798 W/kg

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

- End of the Appendix -