Appendix B. – SAR Test Plots

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	09/18/2023
Plot No.:	A1
Band:	GSM 850 Head – Antenna E

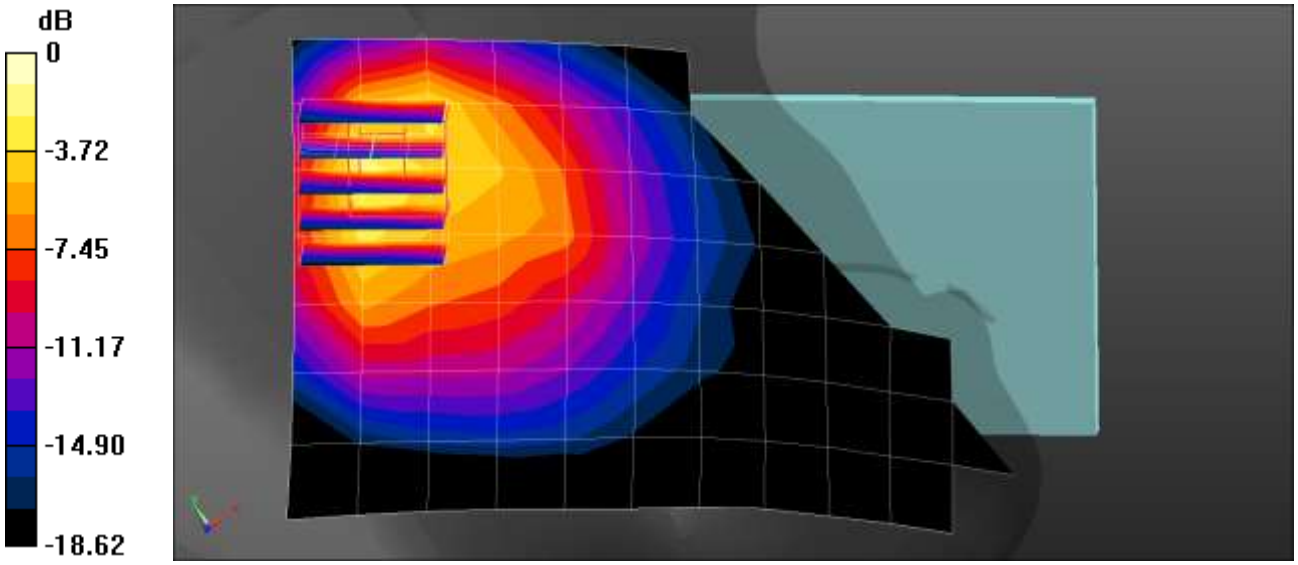
Communication System: UID 0, GSM 850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.906 S/m; ε_r = 41.185; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 836.6 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM850 Head Left Touch 190ch/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.625 W/kg

GSM850 Head Left Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.71 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.31 W/kg
SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.222 W/kg
Maximum value of SAR (measured) = 0.950 W/kg



0 dB = 0.950 W/kg = -0.22 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.2 ℃
Test Date:	09/15/2023
Plot No.:	A2
Band:	GSM 1900 Head – Antenna A

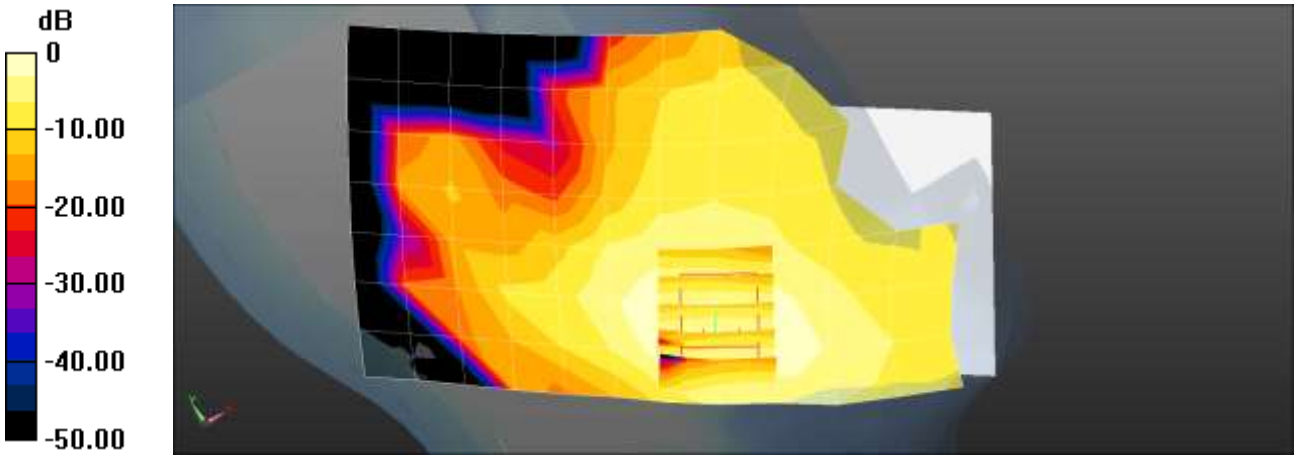
Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954
Medium parameters used: f = 1880 MHz; σ = 1.394 S/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1880 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

GSM1900 2Tx Head Left Touch 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0706 W/kg

GSM1900 2Tx Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.833 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.0850 W/kg
SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.0743 W/kg



0 dB = 0.0743 W/kg = -11.29 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/14/2023
Plot No.:	A3
Band:	UMTS Band 5 Head – Antenna E

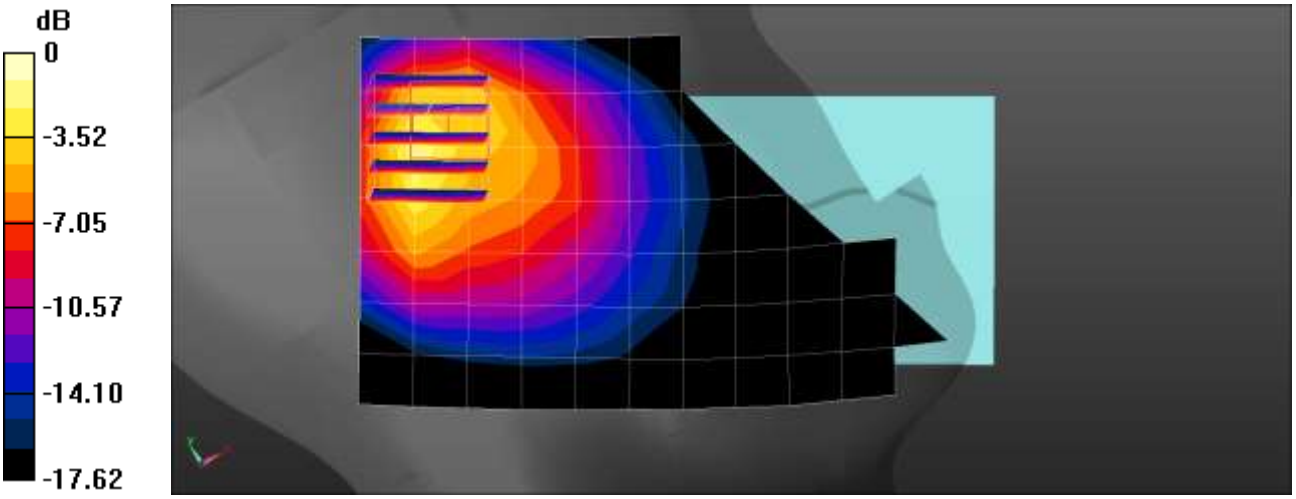
Communication System: UID 0, WCDMA850 (0); Frequency: 846.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 846.6 MHz; σ = 0.916 S/m; ε_r = 41.022; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 846.6 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 5 Head Left Touch 4233ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.39 W/kg

UMTS Band 5 Head Left Touch 4233ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.57 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.48 W/kg
SAR(1 g) = 0.858 W/kg; SAR(10 g) = 0.434 W/kg
Maximum value of SAR (measured) = 1.85 W/kg



0 dB = 1.85 W/kg = 2.67 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/16/2023
Plot No.:	A4
Band:	UMTS Band 4 Head – Antenna A

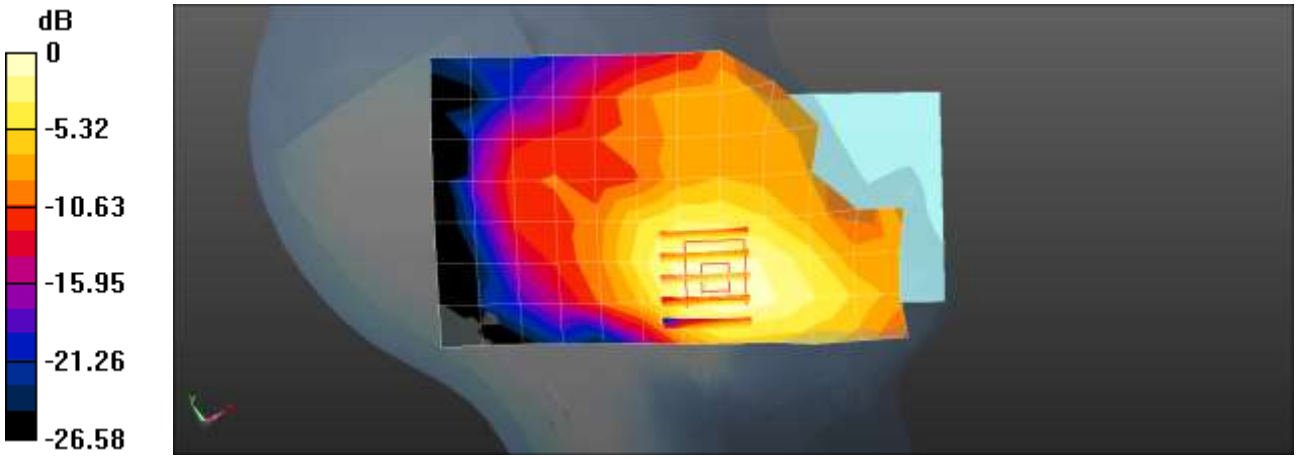
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.328 S/m; ε_r = 39.69; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.36, 7.55, 8.61) @ 1732.4 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.168 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.533 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.203 W/kg
SAR(1 g) = 0.139 W/kg; SAR(10 g) = 0.090 W/kg
Maximum value of SAR (measured) = 0.179 W/kg



0 dB = 0.179 W/kg = -7.47 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	09/14/2023
Plot No.:	A5
Band:	UMTS Band 2 Head – Antenna A

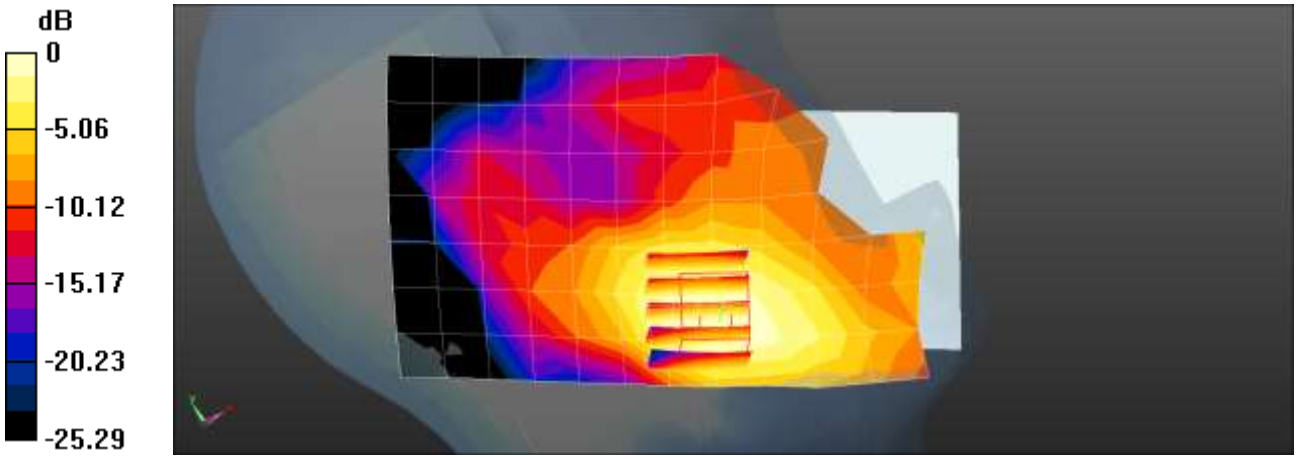
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.395 S/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1880 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.104 W/kg

UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.423 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.128 W/kg
SAR(1 g) = 0.084 W/kg; SAR(10 g) = 0.053 W/kg
Maximum value of SAR (measured) = 0.112 W/kg



0 dB = 0.112 W/kg = -9.51 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/18/2023
Plot No.:	A6
Band:	LTE FDD Band 7 Head – Antenna F

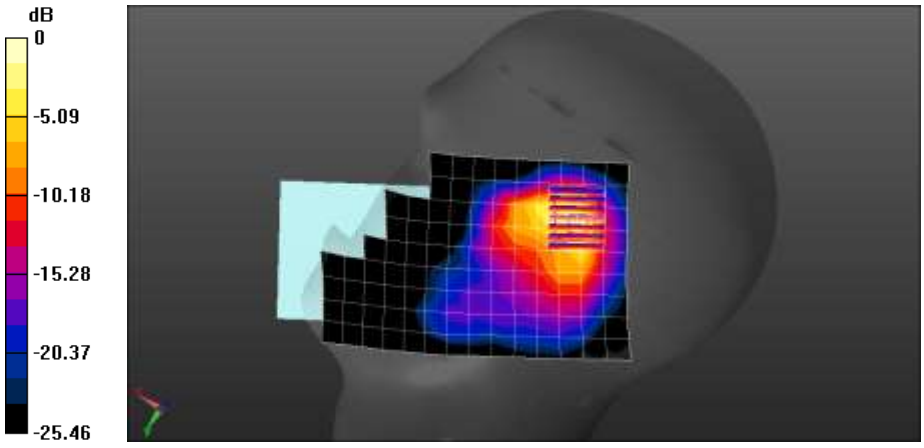
Communication System: UID 0, LTE Band 7 (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 1.93 S/m; ε_r = 37.923; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2510 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 7 Head Right Tilt QPSK 20MHz 100RB 0offset 20850ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.924 W/kg

LTE Band 7 Head Right Tilt QPSK 20MHz 100RB 0offset 20850ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.35 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.270 W/kg
Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/18/2023
Plot No.:	A7
Band:	LTE FDD Band 12 Head – Antenna E

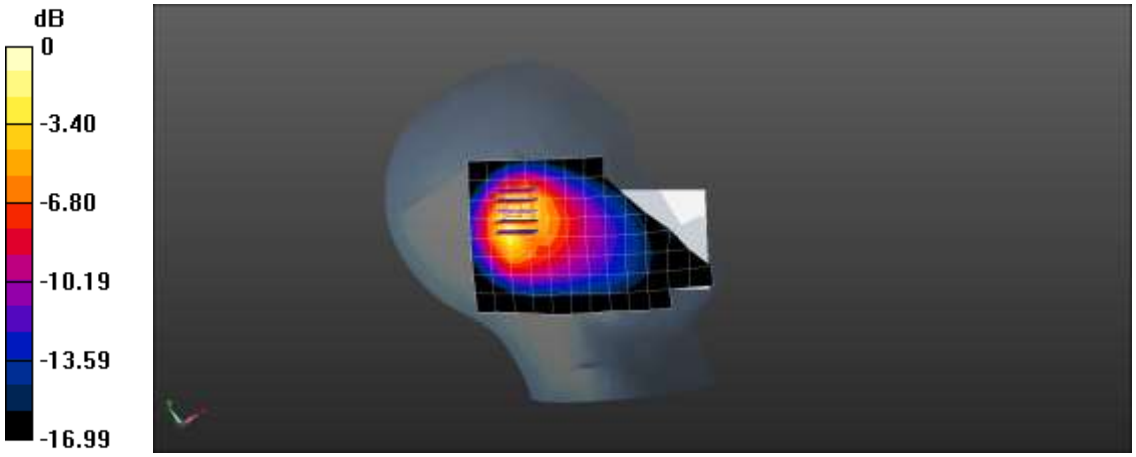
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.861 S/m; ε_r = 42.511; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 707.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 12 Head Left Tilt QPSK 10MHz 1RB 49offset 23095ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.478 W/kg

LTE Band 12 Head Left Tilt QPSK 10MHz 1RB 49offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.11 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.432 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.589 W/kg



0 dB = 0.589 W/kg = -2.30 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.3 ℃
Ambient Temperature:	21.4 ℃
Test Date:	09/19/2023
Plot No.:	A8
Band:	LTE FDD Band 13 Head – Antenna E

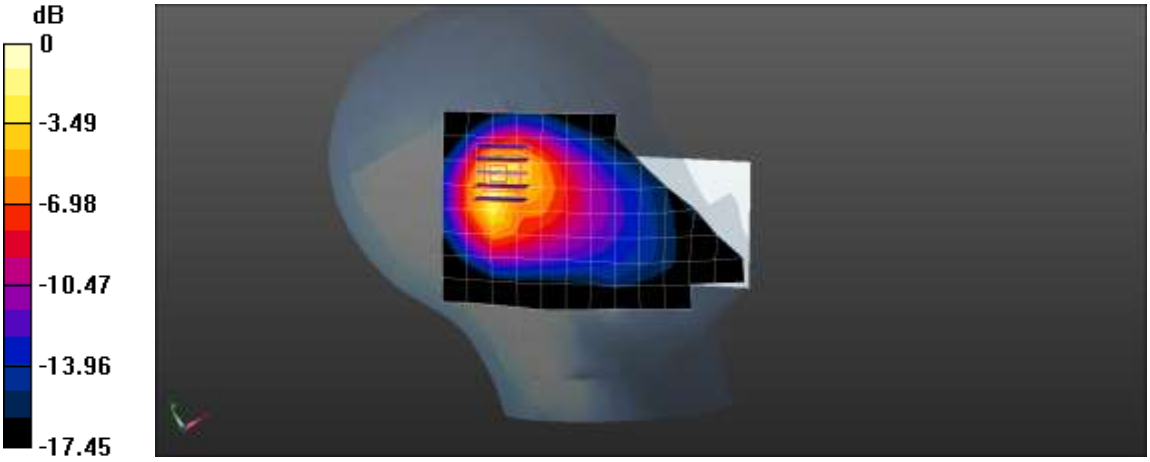
Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.933 S/m; ε_r = 41.361; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 782 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 13 Head Left Tilt QPSK 10MHz 25RB 24offset 23230ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.847 W/kg

LTE Band 13 Head Left Tilt QPSK 10MHz 25RB 24offset 23230ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.24 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.15 W/kg
SAR(1 g) = 0.737 W/kg; SAR(10 g) = 0.336 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/20/2023
Plot No.:	A9
Band:	LTE FDD Band 14 Head – Antenna E

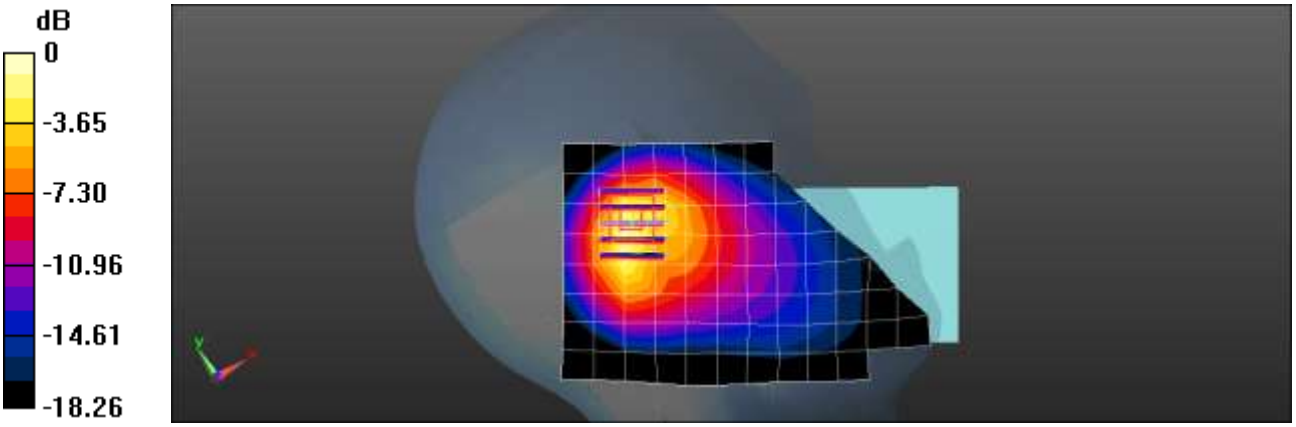
Communication System: UID 0, LTE Band 14 (0); Frequency: 793 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 793 MHz; σ = 0.933 S/m; ε_r = 41.283; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 793 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 14 Head Left Tilt QPSK 10MHz 1RB 0offset 23330ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.941 W/kg

LTE Band 14 Head Left Tilt QPSK 10MHz 1RB 0offset 23330ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.36 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 2.20 W/kg
SAR(1 g) = 0.791 W/kg; SAR(10 g) = 0.364 W/kg
Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.37 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	09/19/2023
Plot No.:	A10
Band:	LTE FDD Band 25 Head – Antenna F

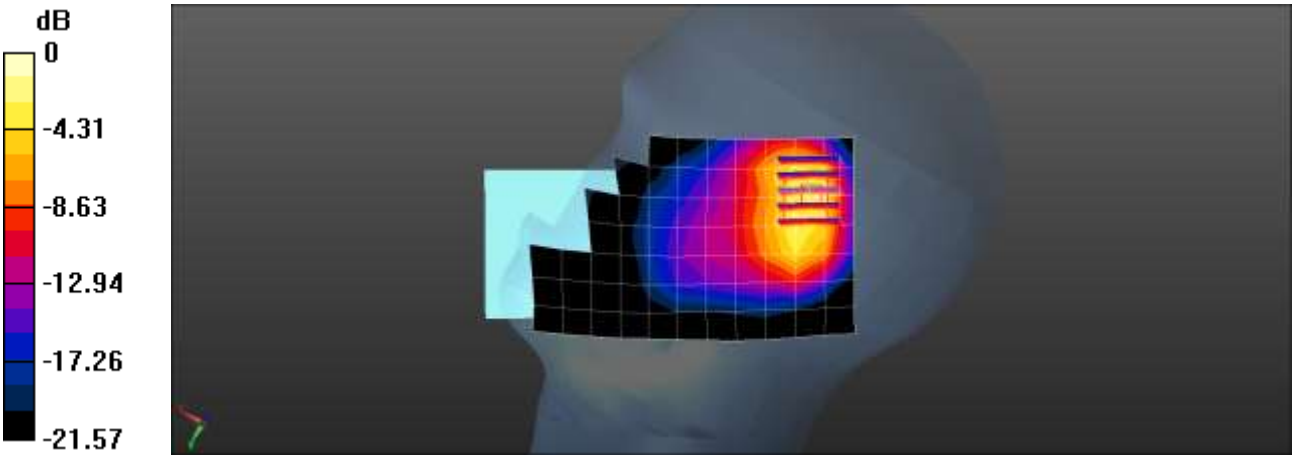
Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.417 S/m; ε_r = 40.277; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1882.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

LTE Band 25 Head Right Tilt QPSK 20MHz 50RB 49offset 26365ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.563 W/kg

LTE Band 25 Head Right Tilt QPSK 20MHz 50RB 49offset 26365ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.71 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.691 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.983 W/kg



0 dB = 0.983 W/kg = -0.07 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.1 ℃
Ambient Temperature:	22.2 ℃
Test Date:	09/25/2023
Plot No.:	A11
Band:	LTE FDD Band 26 Head – Antenna E

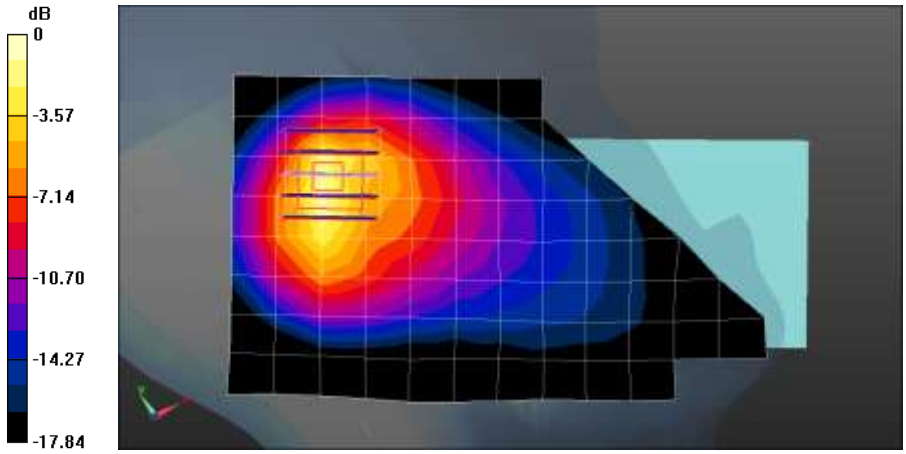
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.918 S/m; ε_r = 43.034; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.11, 6.11, 6.11) @ 831.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 26 Head Left Tilt QPSK 15MHz 36RB 18offset 26865ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.07 W/kg

LTE Band 26 Head Left Tilt QPSK 15MHz 36RB 18offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.01 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 2.64 W/kg
SAR(1 g) = 0.856 W/kg; SAR(10 g) = 0.381 W/kg
Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/16/2023
Plot No.:	A12
Band:	LTE FDD Band 30 Head – Antenna F

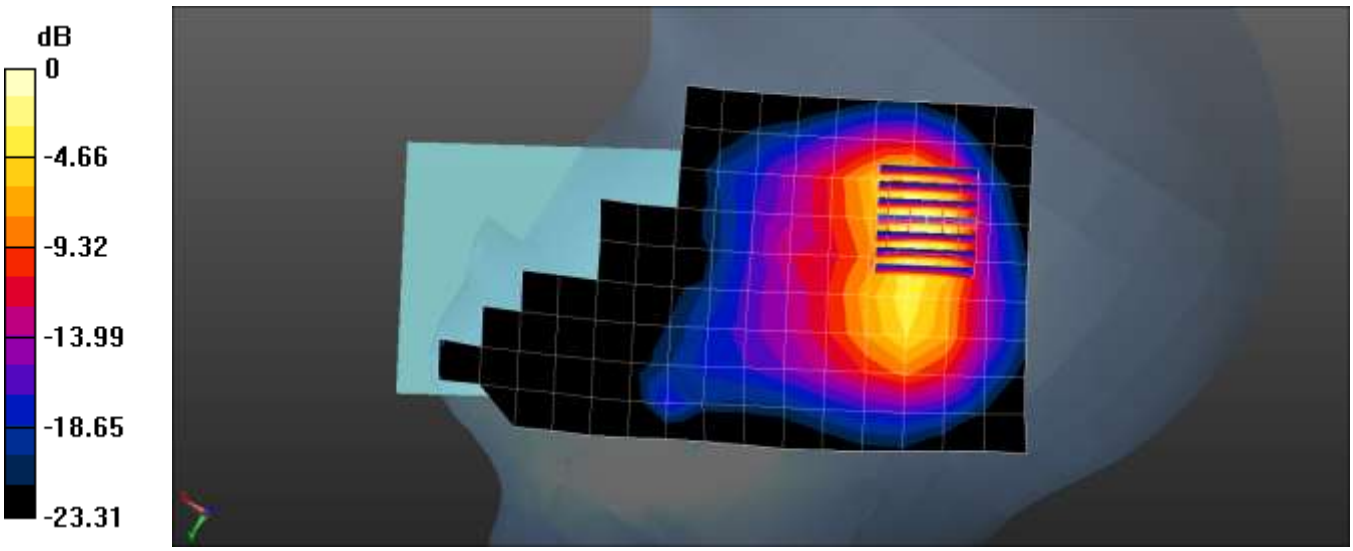
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.728 S/m; ε_r = 39.245; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5, 5, 5) @ 2310 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 30 Head Right Tilt QPSK 10MHz 25RB 12offset 27710ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.723 W/kg

LTE Band 30 Head Right Tilt QPSK 10MHz 25RB 12offset 27710ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.11 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.661 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.4 ℃
Test Date:	09/19/2023
Plot No.:	A13
Band:	LTE TDD Band 38 Head – Antenna F

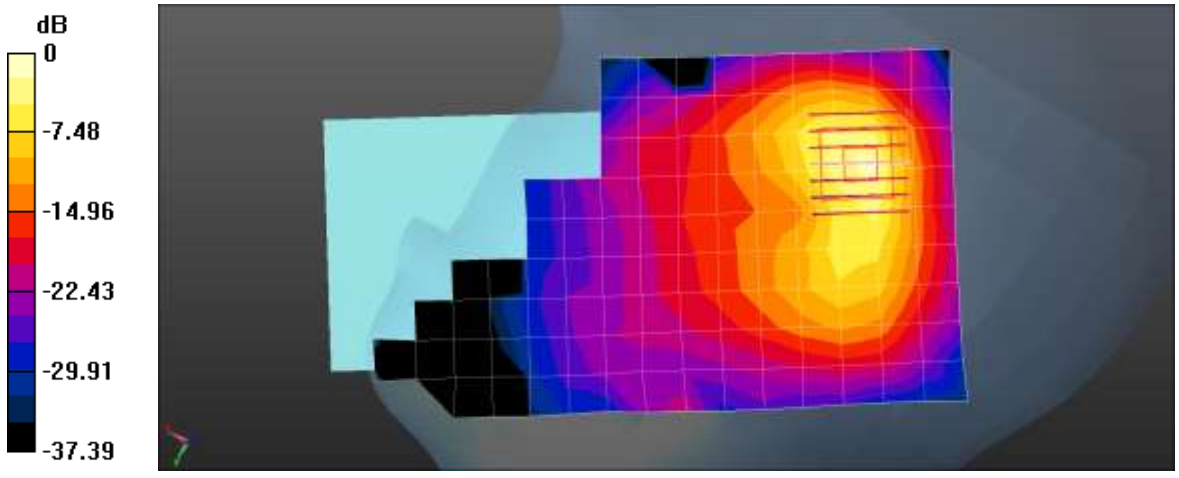
Communication System: UID 0, LTE 38 (0); Frequency: 2580 MHz;Duty Cycle: 1:1.58052
Medium parameters used: f = 2580 MHz; σ = 1.941 S/m; ε_r = 39.76; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.59, 4.59, 4.59) @ 2580 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 38 Head Right Tilt QPSK 20MHz 50RB 25offset 37850ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.08 W/kg

LTE Band 38 Head Right Tilt QPSK 20MHz 50RB 25offset 37850ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.41 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 2.79 W/kg
SAR(1 g) = 0.999 W/kg; SAR(10 g) = 0.370 W/kg
Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.0 ℃
Ambient Temperature:	22.1 ℃
Test Date:	09/19/2023
Plot No.:	A14
Band:	LTE TDD Band 41 Head – Antenna F

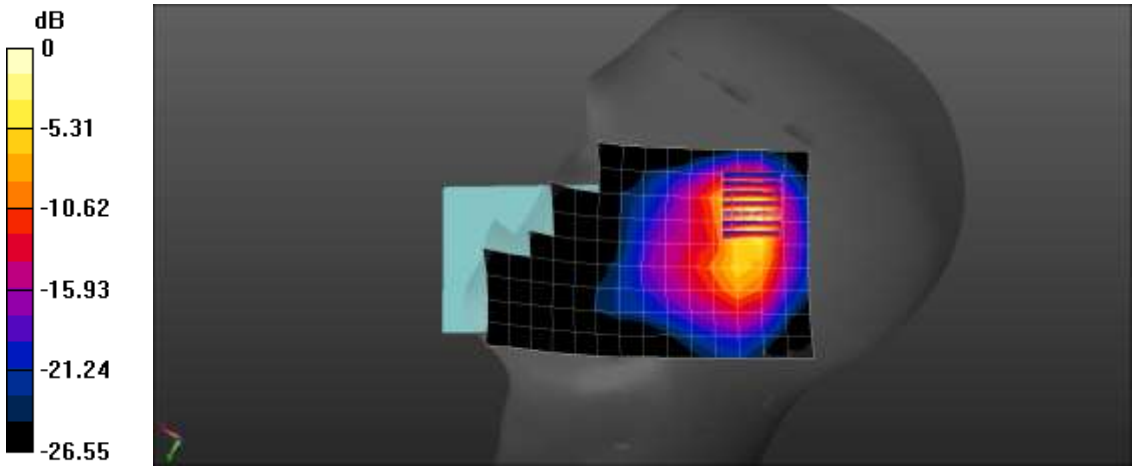
Communication System: UID 0, LTE Band41 (0); Frequency: 2506 MHz;Duty Cycle: 1:1.58052
Medium parameters used (interpolated): f = 2506 MHz; σ = 1.925 S/m; ε_r = 38.033; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2506 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 41 Head Right Tilt QPSK 20MHz 50RB 49offset 39750ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.781 W/kg

LTE Band 41 Head Right Tilt QPSK 20MHz 50RB 49offset 39750ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.00 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.78 W/kg
SAR(1 g) = 0.719 W/kg; SAR(10 g) = 0.278 W/kg
Maximum value of SAR (measured) = 1.36 W/kg



0 dB = 1.36 W/kg = 1.34 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	09/16/2023
Plot No.:	A15
Band:	LTE TDD Band 48 Head – Antenna F

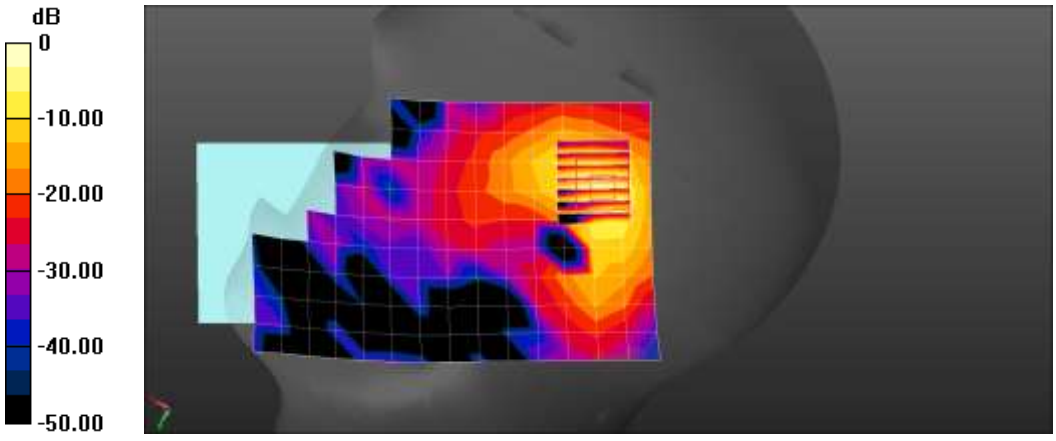
Communication System: UID 0, LTE 48 (0); Frequency: 3560 MHz;Duty Cycle: 1:1.58016
Medium parameters used: f = 3560 MHz; σ = 3.026 S/m; ε_r = 39.328; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3560 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 48 Head Right Tilt QPSK 20MHz 50RB 25offset 55340ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.20 W/kg

LTE Band 48 Head Right Tilt QPSK 20MHz 50RB 25offset 55340ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 1.838 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.219 W/kg
Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	09/19/2023
Plot No.:	A16
Band:	LTE FDD Band 66 Head – Antenna F

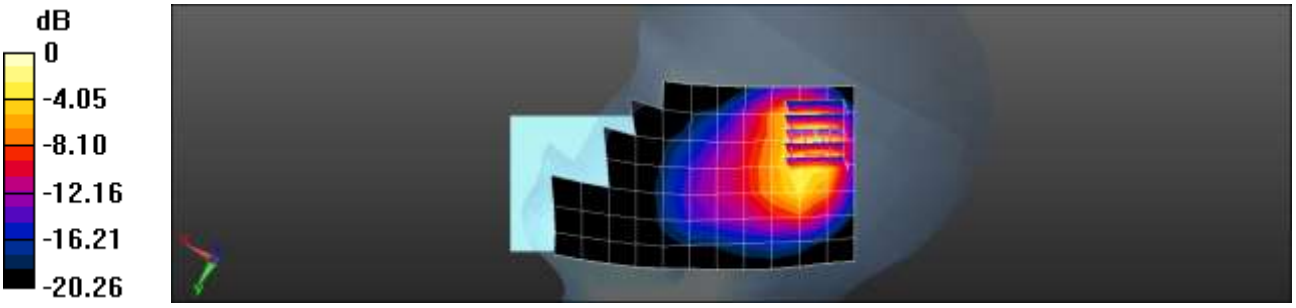
Communication System: UID 0, LTE Band 66 (0); Frequency: 1775 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1775 MHz; σ = 1.361 S/m; ε_r = 39.577; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.35, 5.35, 5.35) @ 1775 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

LTE Band 66 Head Right Tilt QPSK 10MHz 1RB 0offset 132622ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.654 W/kg

LTE Band 66 Head Right Tilt QPSK 10MHz 1RB 0offset 132622ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.78 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.392 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.3 ℃
Ambient Temperature:	22.4 ℃
Test Date:	09/21/2023
Plot No.:	A17
Band:	LTE FDD Band 71 Head – Antenna E

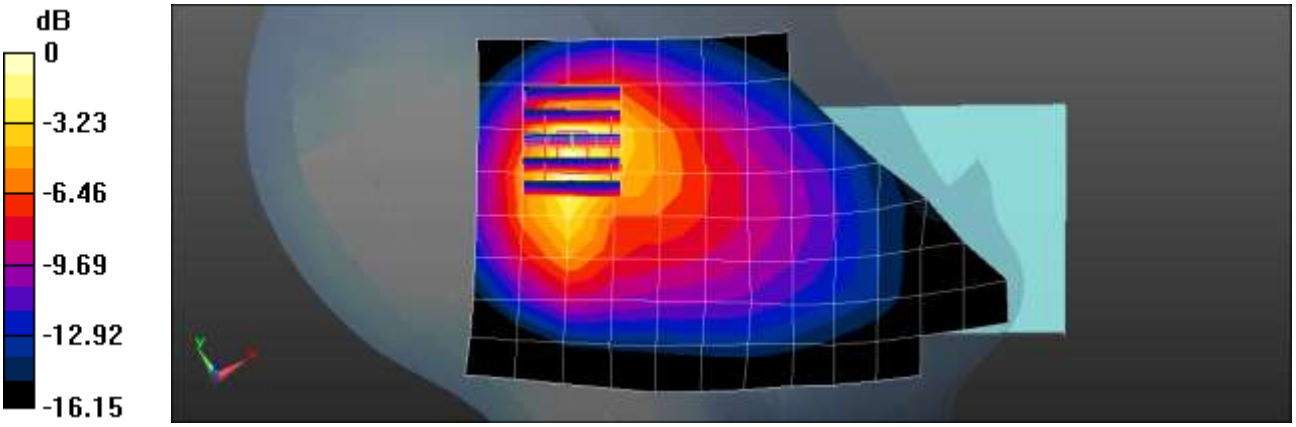
Communication System: UID 0, LTE Band 71 (0); Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 680.5 MHz; σ = 0.899 S/m; ε_r = 42.562; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 680.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 71 Head Left Tilt QPSK 20MHz 50RB 25offset 133297ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.745 W/kg

LTE Band 71 Head Left Tilt QPSK 20MHz 50RB 25offset 133297ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.34 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

◆ 5G NR SUB 6

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/14/2023
Plot No.:	A18
Band:	NR FDD Band n7 Head – Antenna F

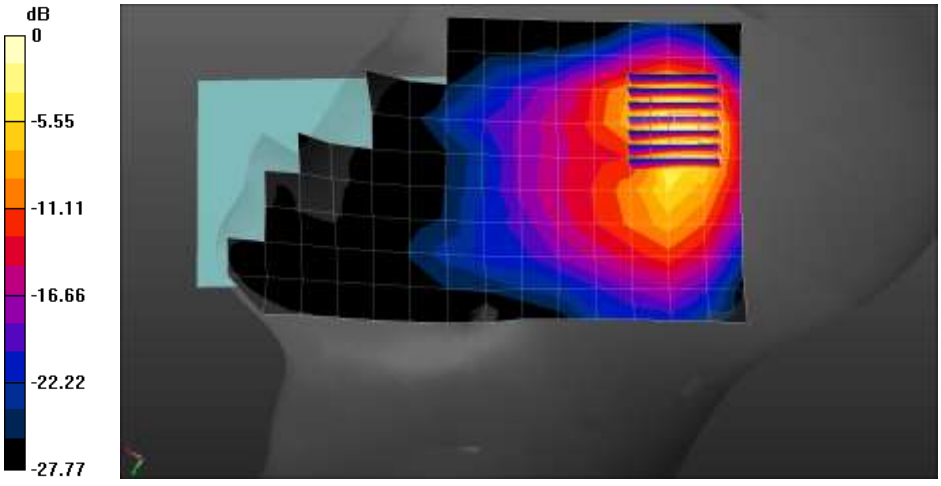
Communication System: UID 0, NR Band n7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2535 MHz; σ = 1.957 S/m; ε_r = 38.328; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.57, 7.57, 7.57) @ 2535 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n7 Head Right Tilt CP QPSK 40MHz 1RB 1offset 507000ch repeat/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.23 W/kg

NR Band n7 Head Right Tilt CP QPSK 40MHz 1RB 1offset 507000ch repeat/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.95 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.36 W/kg
SAR(1 g) = 0.849 W/kg; SAR(10 g) = 0.320 W/kg
Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/21/2023
Plot No.:	A19
Band:	NR FDD Band n12 Head – Antenna E

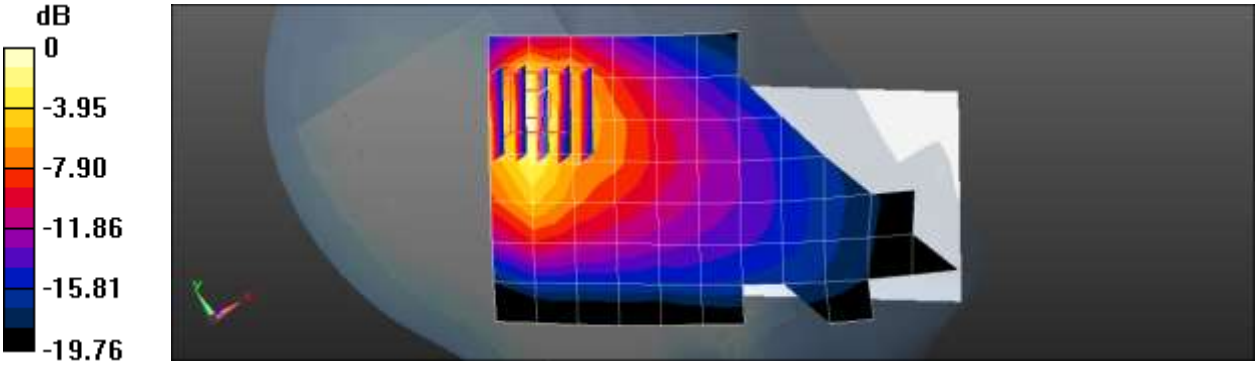
Communication System: UID 0, NR Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.873 S/m; ε_r = 42.41; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 707.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

NR Band n12 Head Left Tilt DFT-s QPSK 15MHz 36RB 43offset 141500ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.865 W/kg

NR Band n12 Head Left Tilt DFT-s QPSK 15MHz 36RB 43offset 141500ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.11 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.458 W/kg; SAR(10 g) = 0.208 W/kg
Maximum value of SAR (measured) = 0.995 W/kg



0 dB = 0.995 W/kg = -0.02 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.7 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/16/2023
Plot No.:	A20
Band:	NR FDD Band n25 Head – Antenna F

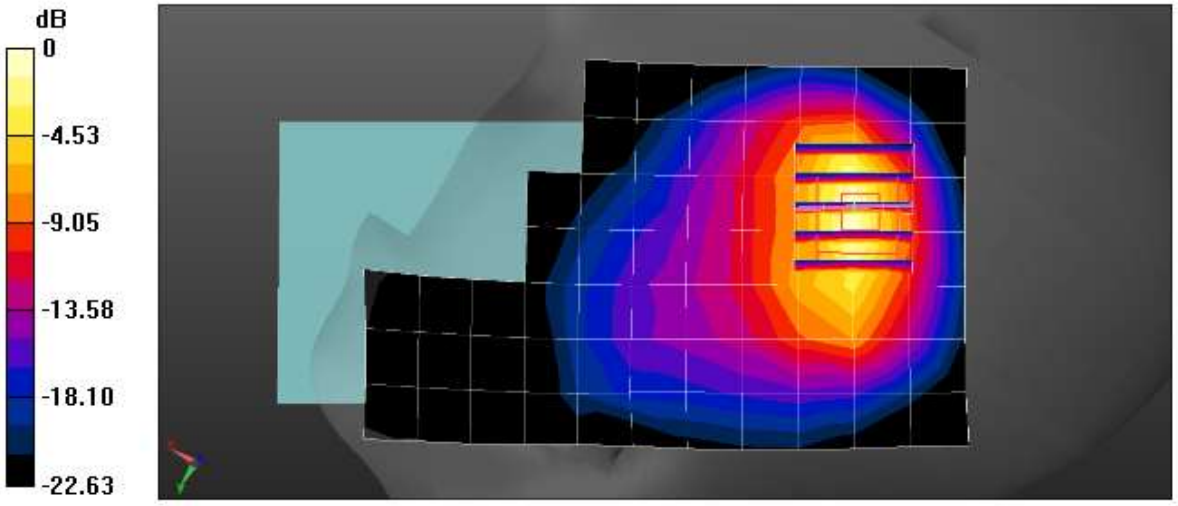
Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.393 S/m; ε_r = 39.254; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.41, 7.93, 8.06) @ 1882.5 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n25 Head Right Tilt DFT-s QPSK 40MHz 216RB 0offset 376500ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.46 W/kg

NR Band n25 Head Right Tilt DFT-s QPSK 40MHz 216RB 0offset 376500ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.40 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.345 W/kg
Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/22/2023
Plot No.:	A21
Band:	NR FDD Band n26 Head – Antenna E

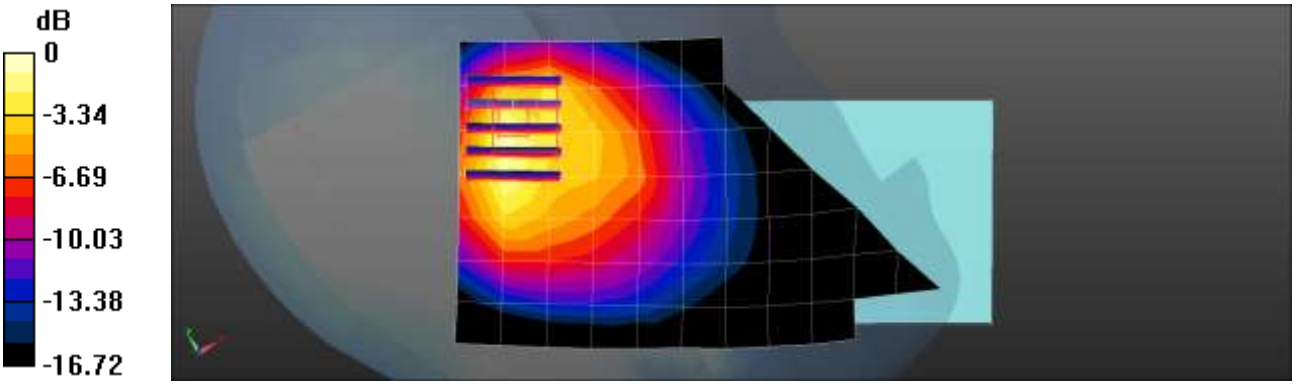
Communication System: UID 0, NR Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.918 S/m; ε_r = 41.963; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.1, 10.1, 10.1) @ 831.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n26 Head Left Touch CP QPSK 20MHz 1RB 1offset 166300ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.29 W/kg

NR Band n26 Head Left Touch CP QPSK 20MHz 1RB 1offset 166300ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.39 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.382 W/kg
Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.2 ℃
Test Date:	09/19/2023
Plot No.:	A22
Band:	NR FDD Band n30 Head – Antenna F

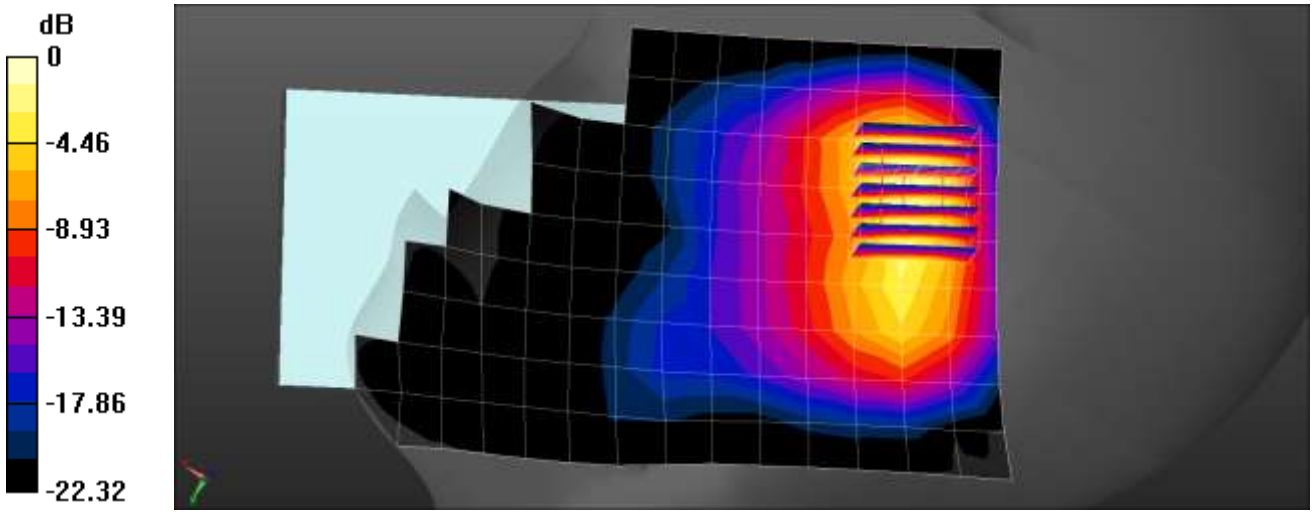
Communication System: UID 0, NR n30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.727 S/m; ε_r = 39.252; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(8.37, 8.37, 8.37) @ 2310 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n30 Head Right Tilt DFT-s QPSK 10MHz 50RB 0offset 462000ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.07 W/kg

NR Band n30 Head Right Tilt DFT-s QPSK 10MHz 50RB 0offset 462000ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.83 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.732 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.1 ℃
Ambient Temperature:	20.2 ℃
Test Date:	10/13/2023
Plot No.:	A23
Band:	NR TDD Band n41 (PC2 Only) Head – Antenna F

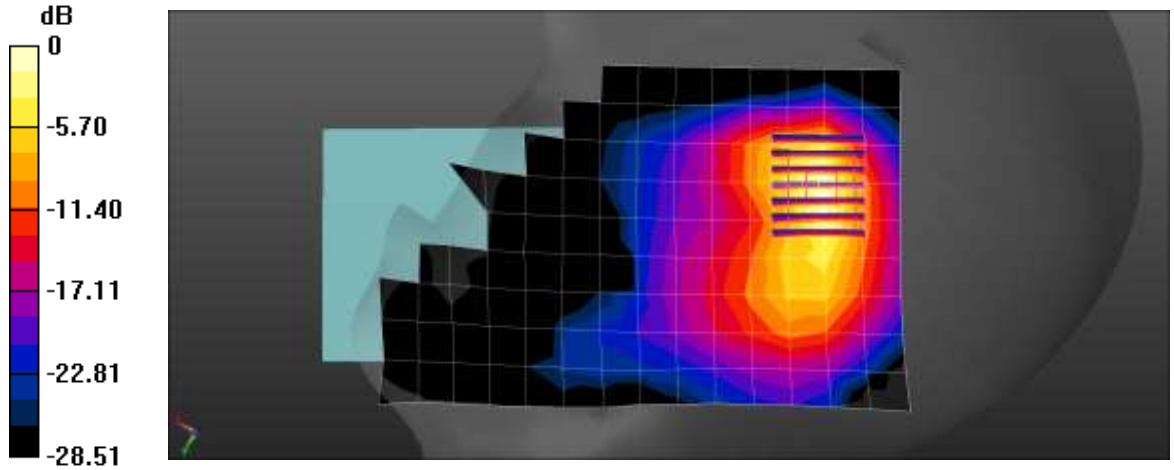
Communication System: UID 0, NR n41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.992 S/m; ε_r = 39.245; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2593 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n41 Head Right Tilt CW 100MHz 518598ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.89 W/kg

NR Band n41 Head Right Tilt CW 100MHz518598ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 20.89 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 2.67 W/kg
SAR(1 g) = 0.983 W/kg; SAR(10 g) = 0.371 W/kg
Maximum value of SAR (measured) = 1.99 W/kg



0 dB = 1.99 W/kg = 2.99 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.9 ℃
Ambient Temperature:	22.1 ℃
Test Date:	09/26/2023
Plot No.:	A24
Band:	NR TDD Band n48 Head – Antenna I

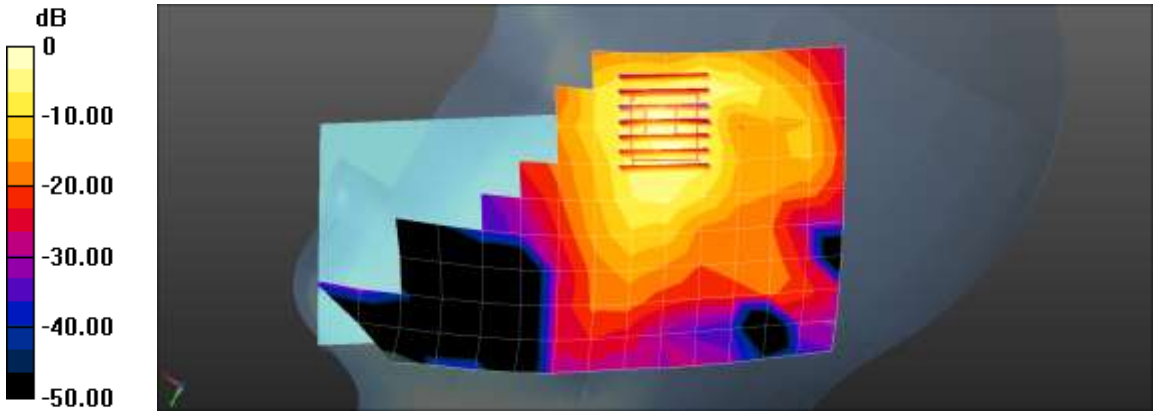
Communication System: UID 0, NR Band 48 (0); Frequency: 3570 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3570 MHz; σ = 2.999 S/m; ε_r = 38.682; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3570 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n48 Head Right Touch CW 40MHz 638000ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.73 W/kg

NR Band n48 Head Right Touch CW 40MHz 638000ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 1.907 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.57 W/kg
SAR(1 g) = 0.935 W/kg; SAR(10 g) = 0.346 W/kg
Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	10/04/2023
Plot No.:	A25
Band:	NR FDD Band n66 Head – Antenna F

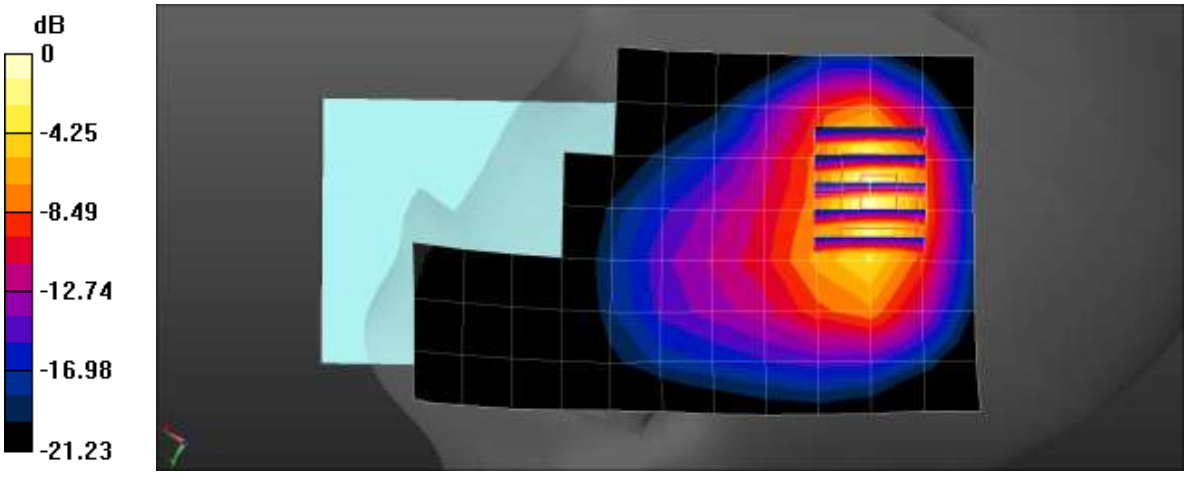
Communication System: UID 0, n66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.363 S/m; ε_r = 39.466; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.93, 8.41, 8.5) @ 1745 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n66 Head Right Tilt DFT-s QPSK 40MHz 216RB 0offset 349000ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.55 W/kg

NR Band n66 Head Right Tilt DFT-s QPSK 40MHz 216RB 0offset 349000ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.35 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 0.898 W/kg; SAR(10 g) = 0.398 W/kg
Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	09/15/2023
Plot No.:	A26
Band:	NR FDD Band n70 Head – Antenna F

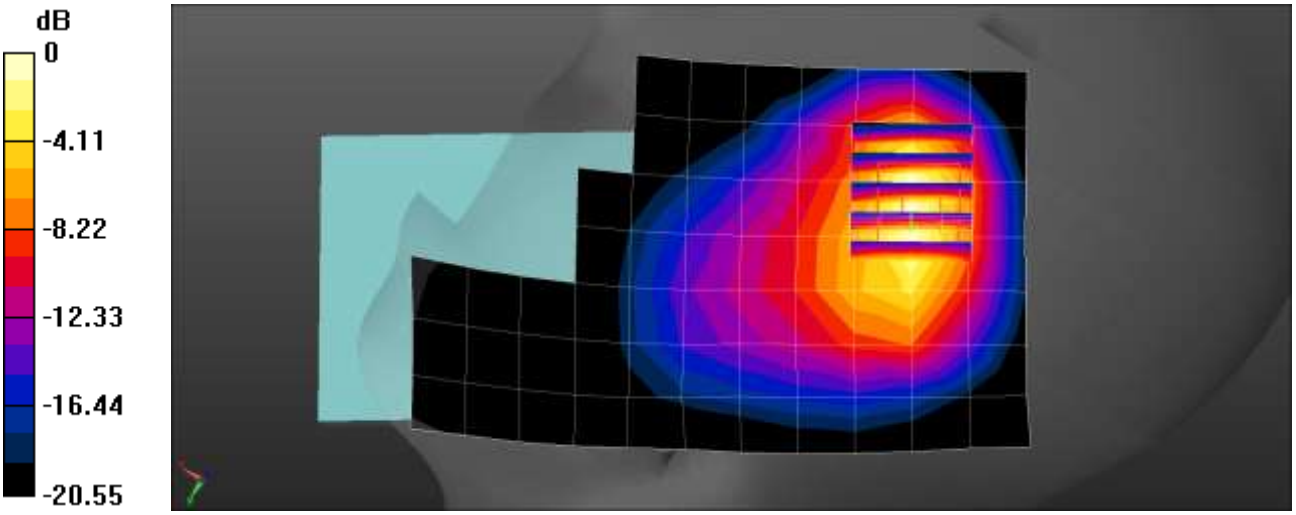
Communication System: UID 0, n70; Frequency: 1702.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1702.5 MHz; σ = 1.345 S/m; ε_r = 41.226; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(8.62, 8.62, 8.62) @ 1702.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n70 Head Right Tilt CP QPSK 15MHz 1RB 1offset 340500ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.48 W/kg

NR Band n70 Head Right Tilt CP QPSK 15MHz 1RB 1offset 340500ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.12 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 2.11 W/kg
SAR(1 g) = 0.953 W/kg; SAR(10 g) = 0.452 W/kg
Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.8 ℃
Test Date:	09/20/2023
Plot No.:	A27
Band:	NR FDD Band n71 Head – Antenna E

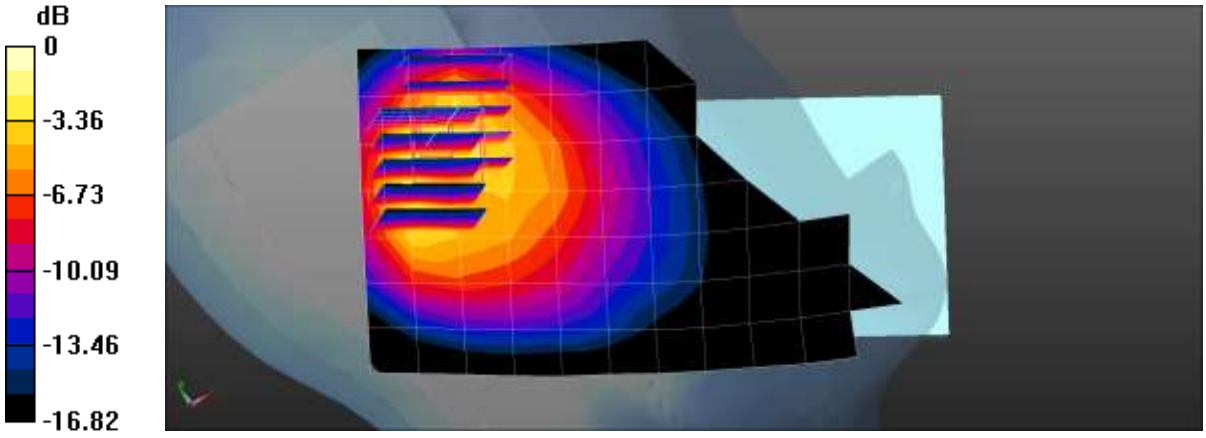
Communication System: UID 0, NR Band 71 (0); Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 680.5 MHz; σ = 0.838 S/m; ε_r = 42.878; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 680.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n71 Head Left Touch DFT-s QPSK 20MHz 100RB 0offset 136100ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.933 W/kg

NR Band n71 Head Left Touch DFT-s QPSK 20MHz 100RB 0offset 136100ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.31 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.95 W/kg
SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.368 W/kg
Maximum value of SAR (measured) = 1.37 W/kg
Peak SAR (extrapolated) = 2.14 W/kg
SAR(1 g) = 0.792 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.3 ℃
Ambient Temperature:	22.5 ℃
Test Date:	10/12/2023
Plot No.:	A28
Band:	NR TDD Band n77 (PC2 Only) Head – Antenna I

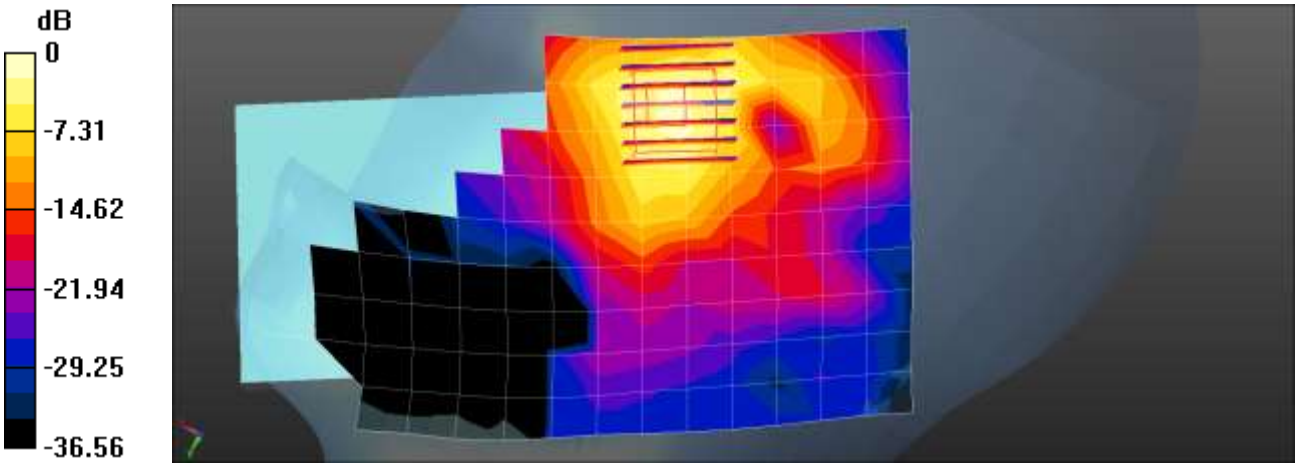
Communication System: UID 0, NR Band 77 (0); Frequency: 3500.01 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 3500.01 MHz; σ = 2.974 S/m; ε_r = 38.923; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500.01 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n77 Head Right Touch CW 100MHz 1RB 1offset 633334ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.33 W/kg

NR Band n77 Head Right Touch CW 100MHz 1RB 1offset 633334ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 1.668 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.86 W/kg
SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.382 W/kg
Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.72 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/22/2023
Plot No.:	A29
Band:	2.4GHz WLAN Head – Antenna J

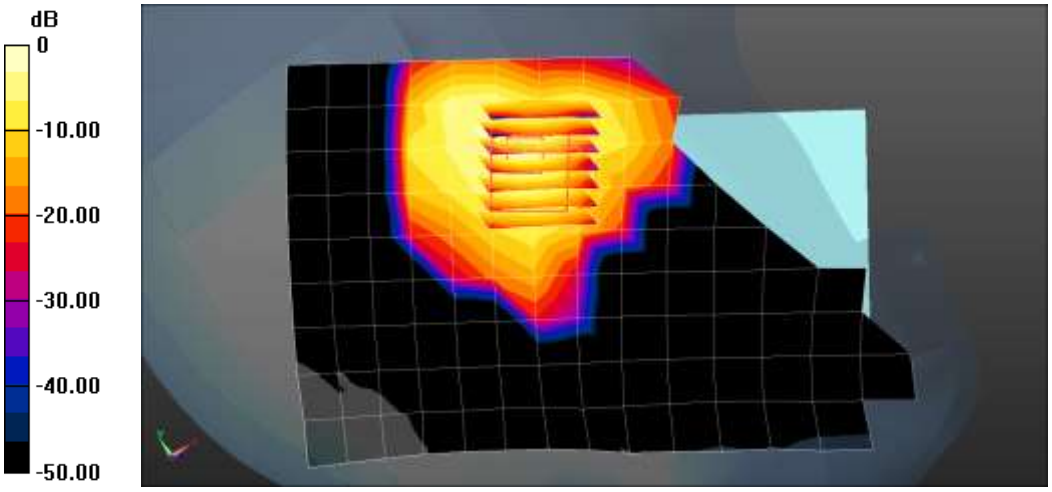
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.88 S/m; ε_r = 38.051; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2462 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

802.11b Head Left Touch 1Mbps 11ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.445 W/kg

802.11b Head Left Touch 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.642 W/kg
SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.122 W/kg
Maximum value of SAR (measured) = 0.458 W/kg



0 dB = 0.458 W/kg = -3.39 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.4 ℃
Ambient Temperature:	22.5 ℃
Test Date:	09/25/2023
Plot No.:	A30
Band:	5GHz WLAN Head – Antenna H

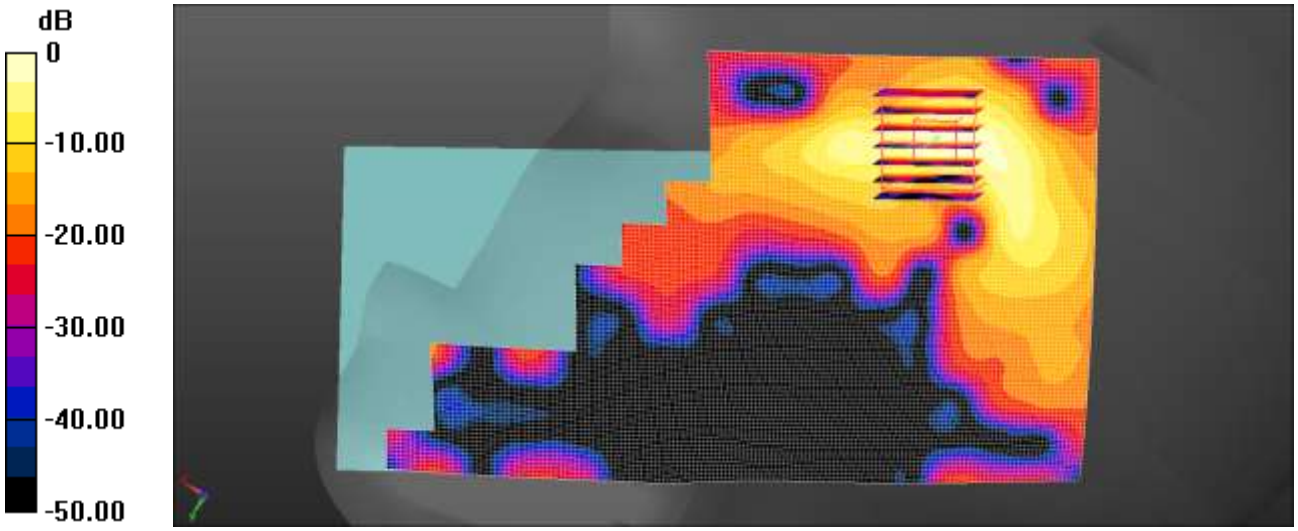
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5855 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5855 MHz; σ = 5.169 S/m; ε_r = 35.867; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.52, 4.22, 4.46) @ 5855 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

802.11ac80 Head Right Touch MCS0 171ch/Area Scan (101x191x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.56 W/kg

802.11ac80 Head Right Touch MCS0 171ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 2.816 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 4.18 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.109 W/kg
Maximum value of SAR (measured) = 1.44 W/kg



0 dB = 1.44 W/kg = 1.58 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	23.7 ℃
Ambient Temperature:	23.8 ℃
Test Date:	10/13/2023
Plot No.:	A31
Band:	Bluetooth Head – Antenna H

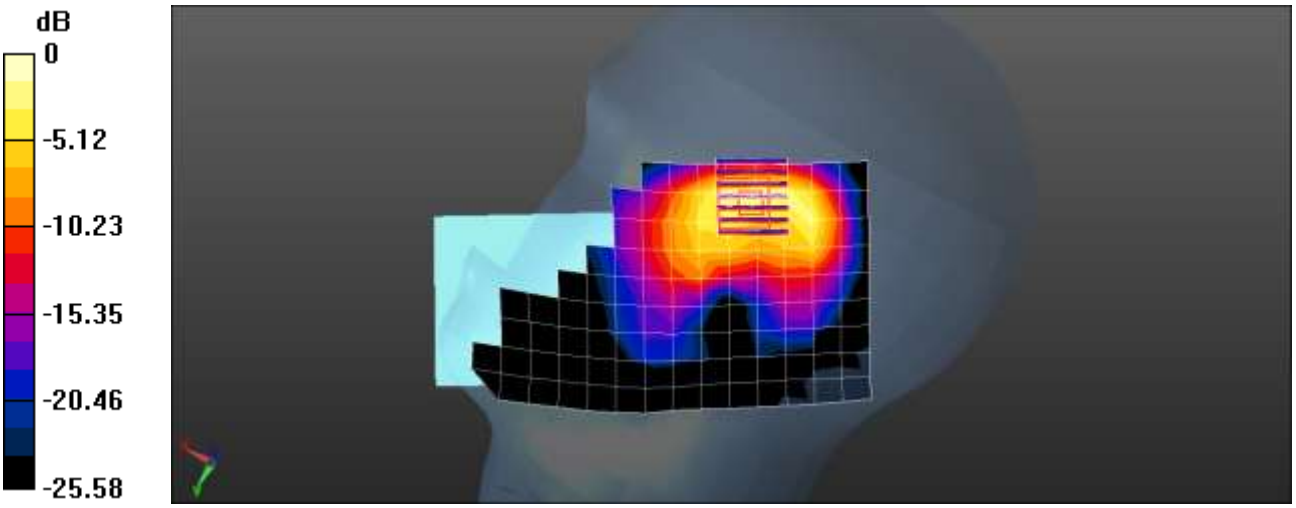
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.791 S/m; ε_r = 39.007; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2441 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Bluetooth Head Right Touch DH5 39ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.929 W/kg

Bluetooth Head Right Touch DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.501 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.227 W/kg
Maximum value of SAR (measured) = 0.965 W/kg



0 dB = 0.965 W/kg = -0.15 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	09/18/2023
Plot No.:	B1
Band:	GSM 850 Body/Hotspot – Antenna E

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:4.14954
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.906 S/m; ε_r = 41.185; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

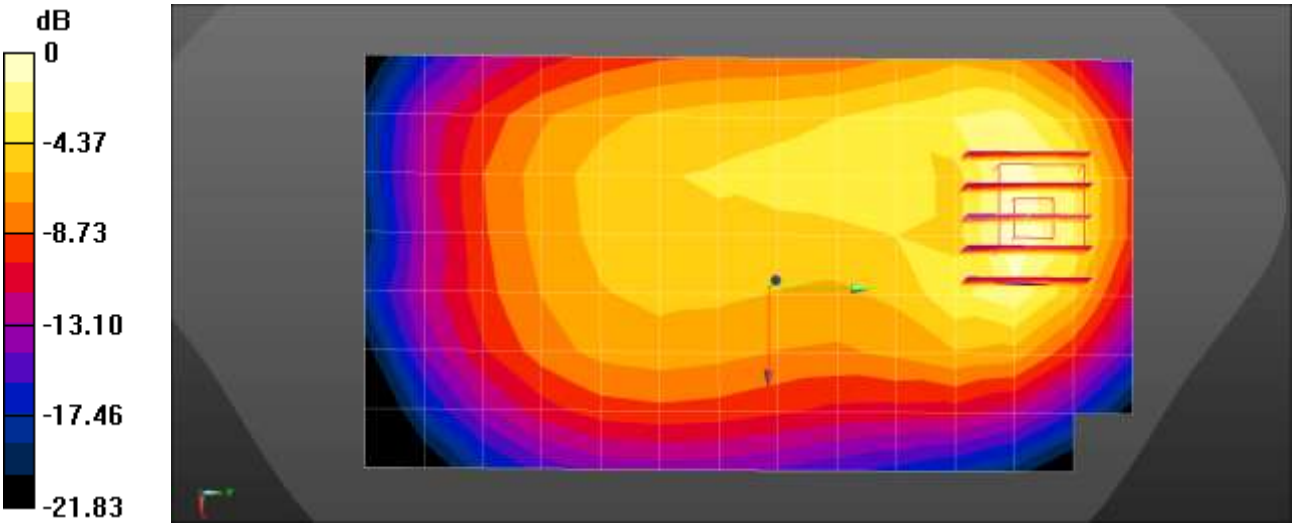
- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 836.6 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

GSM850 2Tx Body Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.832 W/kg

GSM850 2Tx Body Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.29 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.00 W/kg
SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.331 W/kg

Maximum value of SAR (measured) = 0.851 W/kg



0 dB = 0.851 W/kg = -0.70 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.2 ℃
Test Date:	09/15/2023
Plot No.:	B2
Band:	GSM 1900 Body/Hotspot– Antenna A

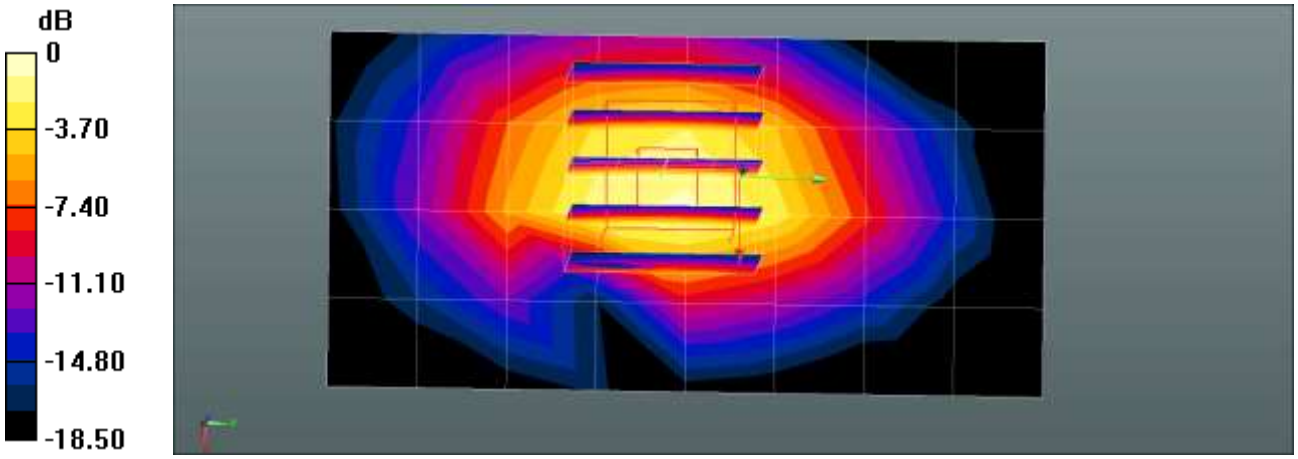
Communication System: UID 0, GSM 1900 4TX (0); Frequency: 1880 MHz;Duty Cycle: 1:2.07491
Medium parameters used: f = 1880 MHz; σ = 1.394 S/m; ε_r = 41.4; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1880 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

GSM1900 4Tx Body Bottom 661ch/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.09 W/kg

GSM1900 4Tx Body Bottom 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.05 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.454 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/14/2023
Plot No.:	B3
Band:	UMTS Band 5 Body/Hotspot – Antenna E

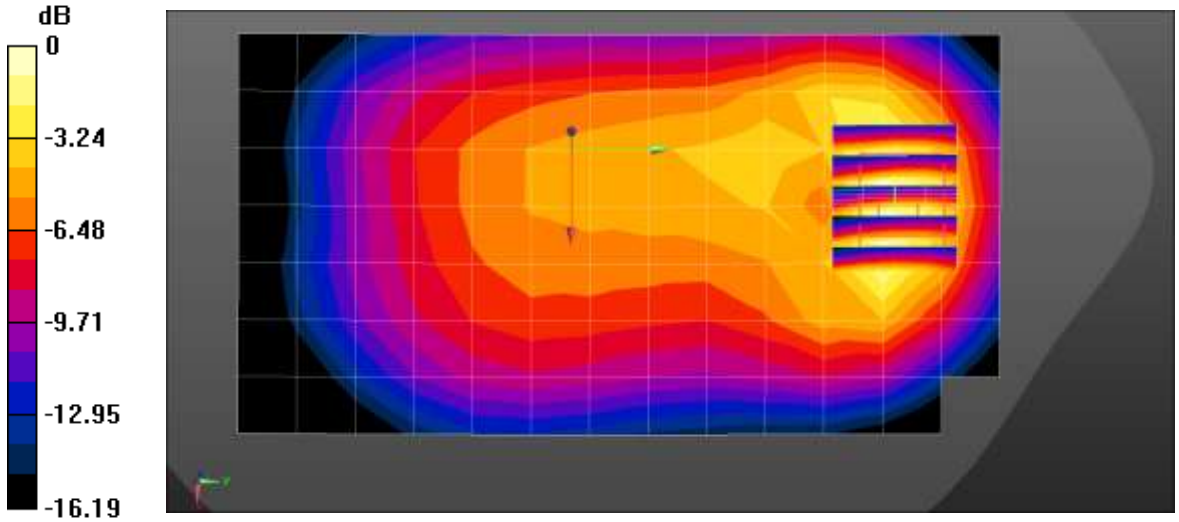
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.906 S/m; ε_r = 41.172; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 836.6 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 5 Body Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.444 W/kg

UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.04 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.553 W/kg
SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.177 W/kg
Maximum value of SAR (measured) = 0.473 W/kg



0 dB = 0.473 W/kg = -3.25 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/16/2023
Plot No.:	B4
Band:	UMTS Band 4 Body/Hotspot – Antenna A

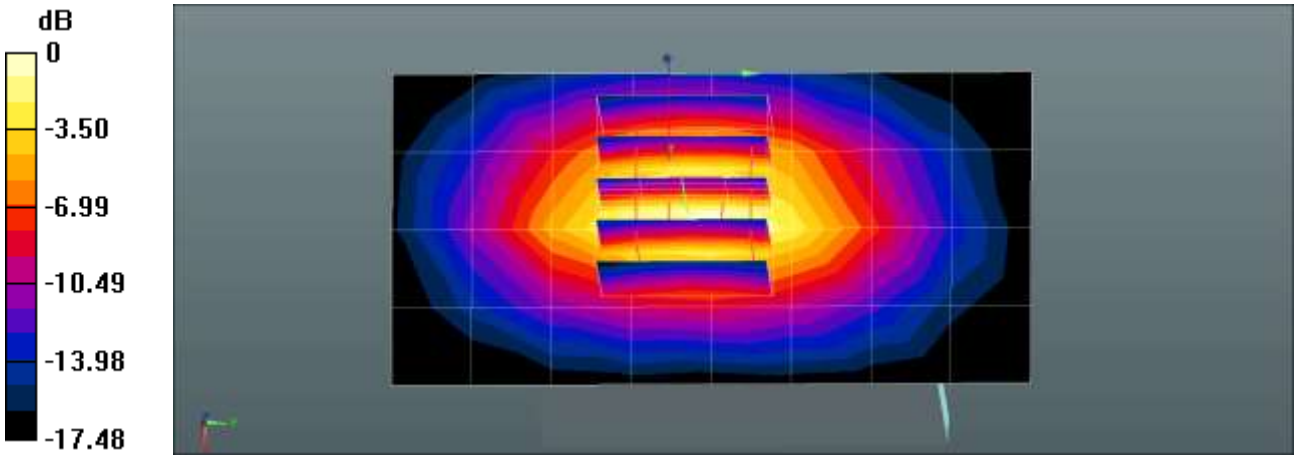
Communication System: UID 0, WCDMA IV (0); Frequency: 1712.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1712.4 MHz; σ = 1.306 S/m; ε_r = 39.763; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.36, 7.55, 8.61) @ 1712.4 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 4 Body Bottom 1312ch/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.27 W/kg

UMTS Band 4 Body Bottom 1312ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.58 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 1.61 W/kg
SAR(1 g) = 0.938 W/kg; SAR(10 g) = 0.510 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	09/14/2023
Plot No.:	B5
Band:	UMTS Band 2 Body/Hotspot – Antenna A

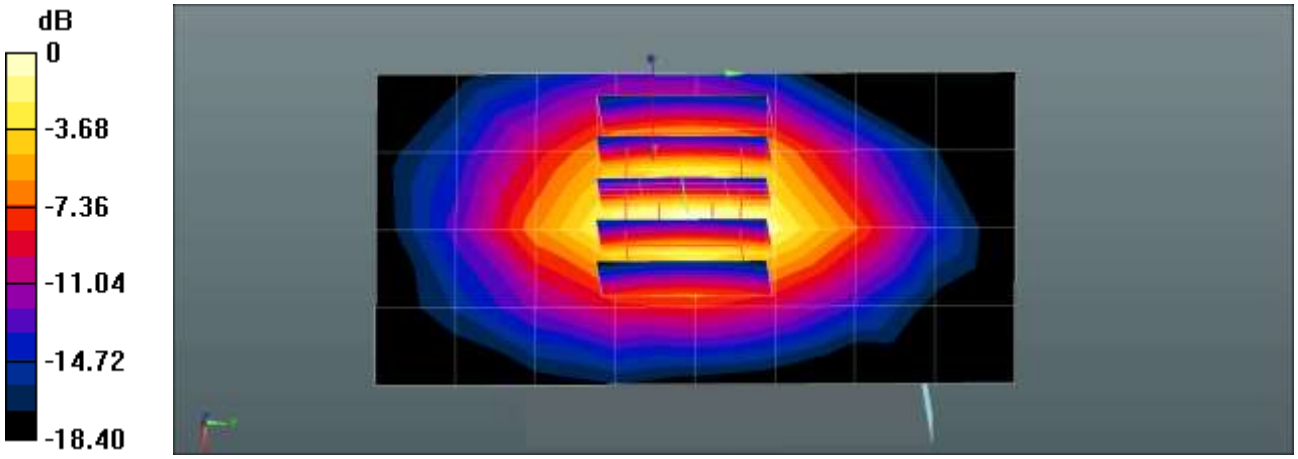
Communication System: UID 0, WCDMA1900 (0); Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.368 S/m; ε_r = 41.511; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1852.4 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

UMTS Band 2 Body Bottom 9262ch/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.11 W/kg

UMTS Band 2 Body Bottom 9262ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.83 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.35 W/kg
SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.406 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/18/2023
Plot No.:	B6
Band:	LTE FDD Band 7 Body/Hotspot – Antenna F

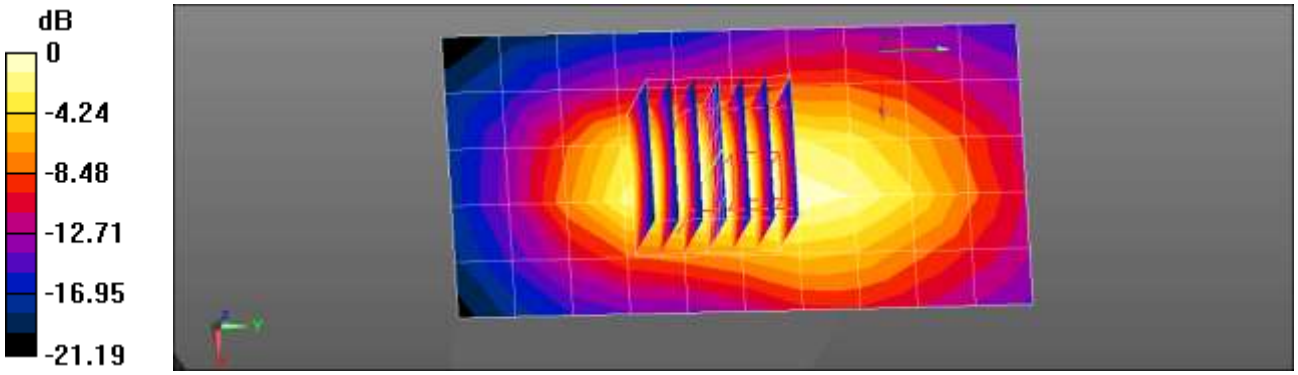
Communication System: UID 0, LTE Band 7 (0); Frequency: 2510 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2510 MHz; σ = 1.93 S/m; ε_r = 37.923; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2510 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

LTE Band 7 Body Top QPSK 20MHz 1RB 0offset 20850ch/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.772 W/kg

LTE Band 7 Body Top QPSK 20MHz 1RB 0offset 20850ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.01 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.260 W/kg
Maximum value of SAR (measured) = 0.847 W/kg



0 dB = 0.847 W/kg = -0.72 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.2 ℃
Test Date:	09/11/2023
Plot No.:	B7
Band:	LTE FDD Band 12 Body/Hotspot – Antenna A

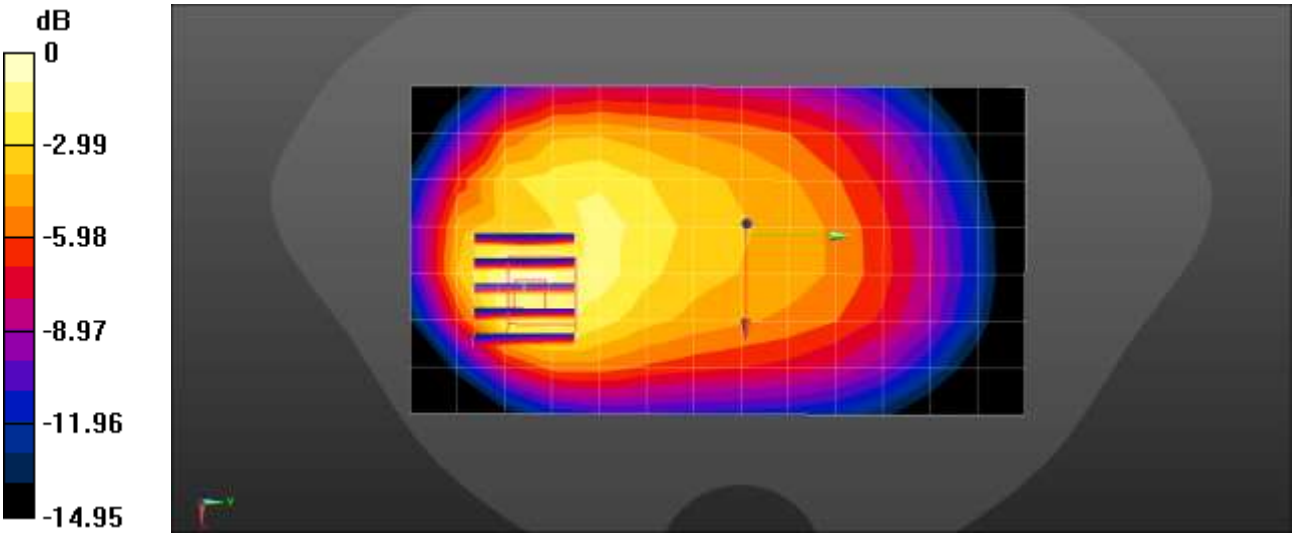
Communication System: UID 0, LTE 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.888 S/m; ε_r = 44.051; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 707.5 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 12 Body Rear QPSK 10MHz 1RB 24offset 23095ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.323 W/kg

LTE Band 12 Body Rear QPSK 10MHz 1RB 24offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.39 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.463 W/kg
SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.153 W/kg
Maximum value of SAR (measured) = 0.390 W/kg



0 dB = 0.390 W/kg = −4.09 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.3 ℃
Ambient Temperature:	21.4 ℃
Test Date:	09/19/2023
Plot No.:	B8
Band:	LTE FDD Band 13 Body/Hotspot – Antenna E

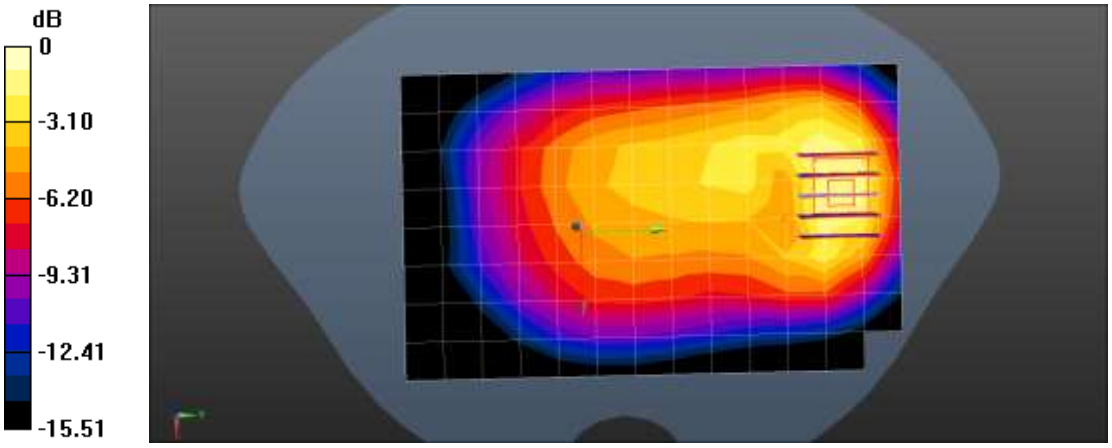
Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.933 S/m; ε_r = 41.361; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 782 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 13 Body Rear QPSK 10MHz 25RB 0offset 23230ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.290 W/kg

LTE Band 13 Body Rear QPSK 10MHz 25RB 0offset 23230ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.22 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.527 W/kg
SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.169 W/kg
Maximum value of SAR (measured) = 0.368 W/kg



0 dB = 0.368 W/kg = -4.34 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/20/2023
Plot No.:	B9
Band:	LTE FDD Band 14 Body/Hotspot – Antenna E

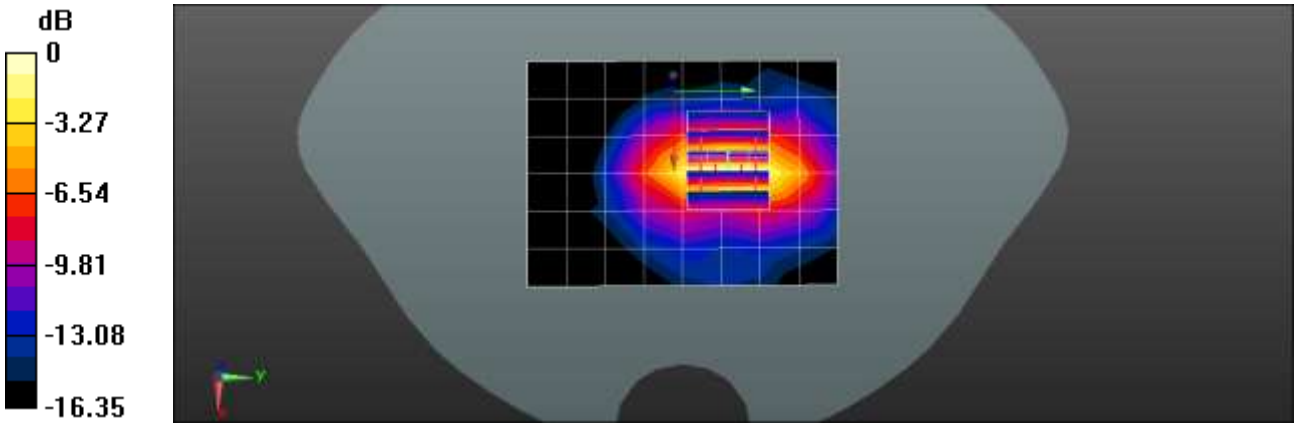
Communication System: UID 0, LTE Band 14 (0); Frequency: 793 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 793 MHz; σ = 0.933 S/m; ε_r = 41.283; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 793 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 14 Body Top QPSK 10MHz 1RB 24offset 23330ch/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.769 W/kg

LTE Band 14 Body Top QPSK 10MHz 1RB 24offset 23330ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.94 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 1.22 W/kg
SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.304 W/kg
Maximum value of SAR (measured) = 0.793 W/kg



0 dB = 0.793 W/kg = -1.01 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	09/12/2023
Plot No.:	B10
Band:	LTE FDD Band 25 Body/Hotspot – Antenna A

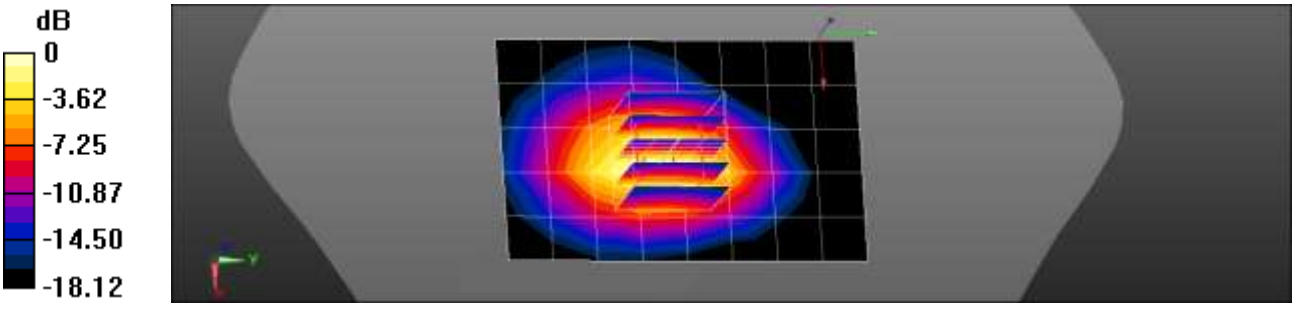
Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.404 S/m; ε_r = 40.052; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1882.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

LTE Band 25 Body Bottom QPSK 20MHz 100RB 0offset 26365ch/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.712 W/kg

LTE Band 25 Body Bottom QPSK 20MHz 100RB 0offset 26365ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.17 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.10 W/kg
SAR(1 g) = 0.623 W/kg; SAR(10 g) = 0.331 W/kg
Maximum value of SAR (measured) = 0.778 W/kg



0 dB = 0.778 W/kg = -1.09 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	09/14/2023
Plot No.:	B11
Band:	LTE FDD Band 26 Body/Hotspot – Antenna A

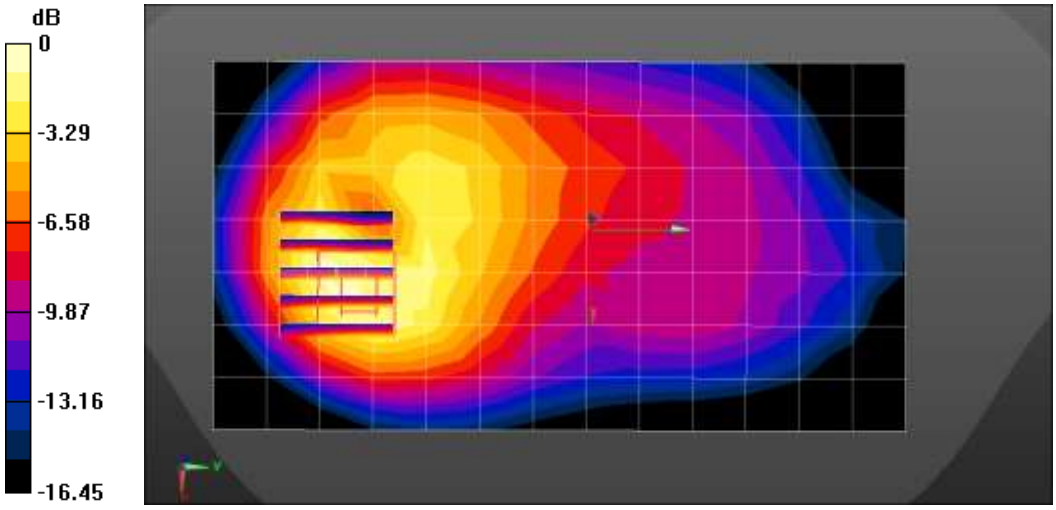
Communication System: UID 0, LTE 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.907 S/m; ε_r = 42.443; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.2, 9.46, 9.58) @ 831.5 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 26 Body Rear QPSK 15MHz 36RB 18offset 26865ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.482 W/kg

LTE Band 26 Body Rear QPSK 15MHz 36RB 18offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.48 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.663 W/kg
SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.213 W/kg
Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/16/2023
Plot No.:	B12
Band:	LTE FDD Band 30 Body/Hotspot – Antenna F

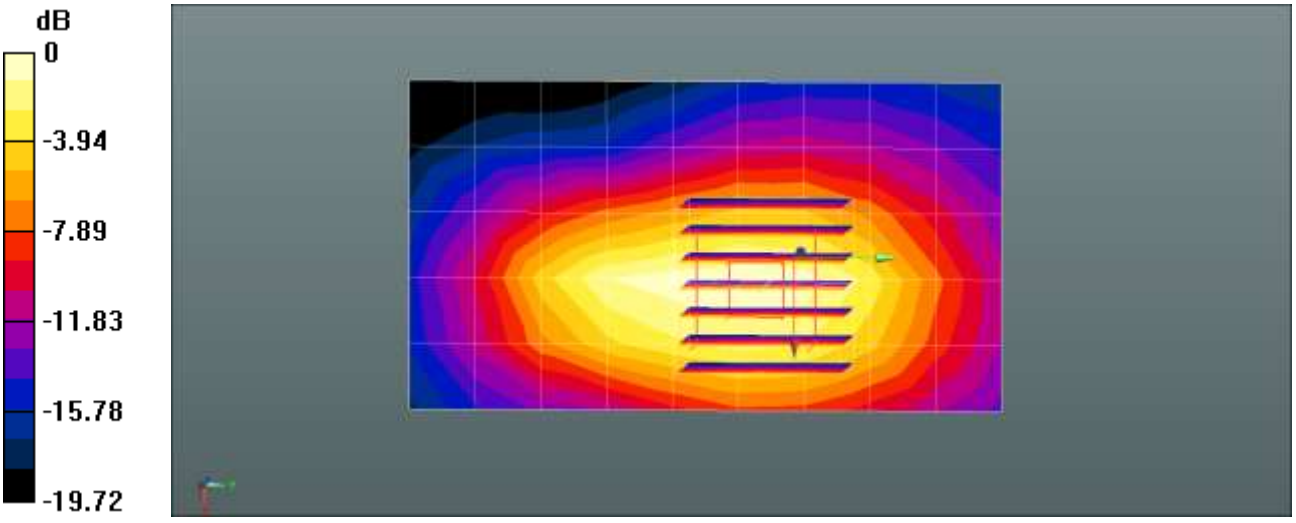
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.728 S/m; ε_r = 39.245; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5, 5, 5) @ 2310 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 30 Body Top QPSK 10MHz 25RB 0offset 27710ch/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.743 W/kg

LTE Band 30 Body Top QPSK 10MHz 25RB 0offset 27710ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.99 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.319 W/kg
Maximum value of SAR (measured) = 0.772 W/kg



0 dB = 0.772 W/kg = -1.12 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.4 ℃
Test Date:	09/19/2023
Plot No.:	B13
Band:	LTE TDD Band 38 Body/Hotspot – Antenna F

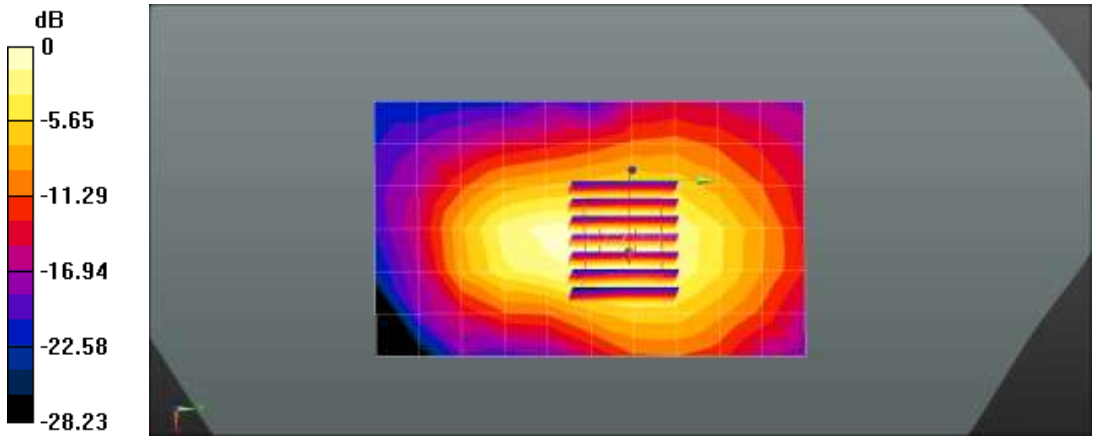
Communication System: UID 0, LTE 38 (0); Frequency: 2595 MHz;Duty Cycle: 1:1.58052
Medium parameters used (interpolated): f = 2595 MHz; σ = 1.953 S/m; ε_r = 39.759; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.59, 4.59, 4.59) @ 2595 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 38 Body Top QPSK 20MHz 1RB 49offset 38000ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.421 W/kg

LTE Band 38 Body Top QPSK 20MHz 1RB 49offset 38000ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.02 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.801 W/kg
SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.188 W/kg
Maximum value of SAR (measured) = 0.500 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	09/12/2023
Plot No.:	B14
Band:	LTE TDD Band 41 Body/Hotspot – Antenna B

Measurement Report for SM-S926U, BACK, Band 41, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) AntennaCfg:SISO, Channel 40620 (2593.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 10.00	Band 41	LTE-TDD, 10435-CAH	2593.0, 40620	7.94	1.95	38.1

Hardware Setup

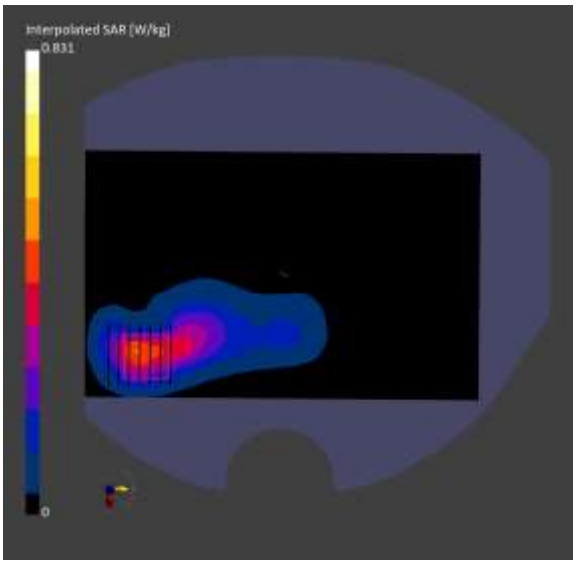
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN7622, 2022-11-22	DAE4 Sn1417, 2023-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/kg]	0.381	0.389
psSAR10g [W/kg]	0.185	0.182
Power Drift [dB]	0.01	-0.16



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	09/16/2023
Plot No.:	B15
Band:	LTE TDD Band 48 Body/Hotspot – Antenna F

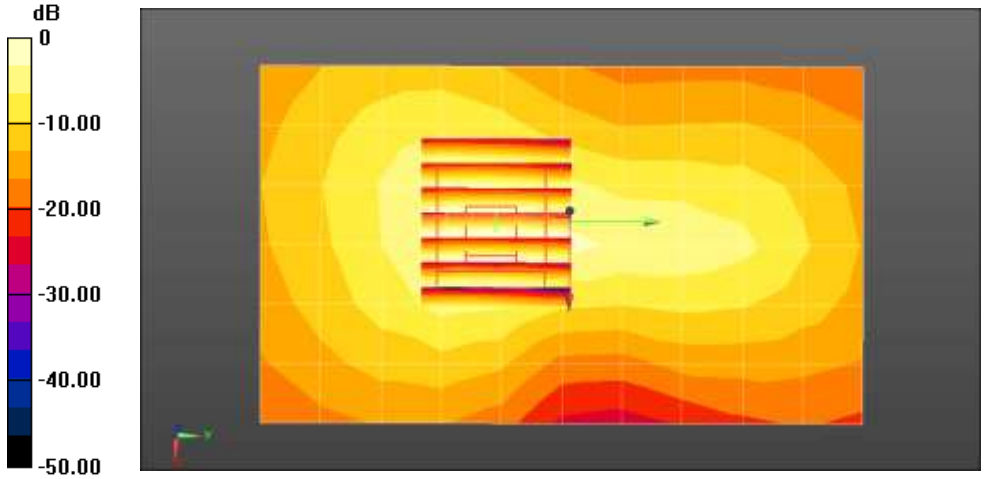
Communication System: UID 0, LTE 48 (0); Frequency: 3560 MHz;Duty Cycle: 1:1.58016
Medium parameters used: f = 3560 MHz; σ = 3.026 S/m; ε_r = 39.328; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3560 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 48 Body Top QPSK 20MHz 1RB 0offset 55340ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.757 W/kg

LTE Band 48 Body Top QPSK 20MHz 1RB 0offset 55340ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 13.64 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.176 W/kg
Maximum value of SAR (measured) = 0.789 W/kg



0 dB = 0.789 W/kg = -1.03 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.3 ℃
Ambient Temperature:	22.4 ℃
Test Date:	09/11/2023
Plot No.:	B16
Band:	LTE FDD Band 66 Body/Hotspot – Antenna A

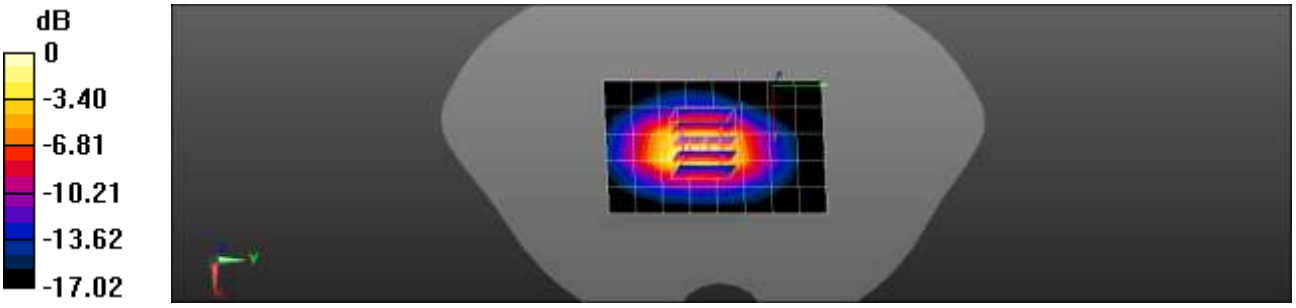
Communication System: UID 0, LTE 66 (0); Frequency: 1770 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1770 MHz; σ = 1.353 S/m; ε_r = 39.544; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.35, 5.35, 5.35) @ 1770 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

LTE Band 66 Body Bottom QPSK 20MHz 1RB 0offset 132572ch/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.772 W/kg

LTE Band 66 Body Bottom QPSK 20MHz 1RB 0offset 132572ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.52 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.432 W/kg
Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.04 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.0 ℃
Ambient Temperature:	22.1 ℃
Test Date:	09/15/2023
Plot No.:	B17
Band:	LTE FDD Band 71 Hotspot – Antenna A

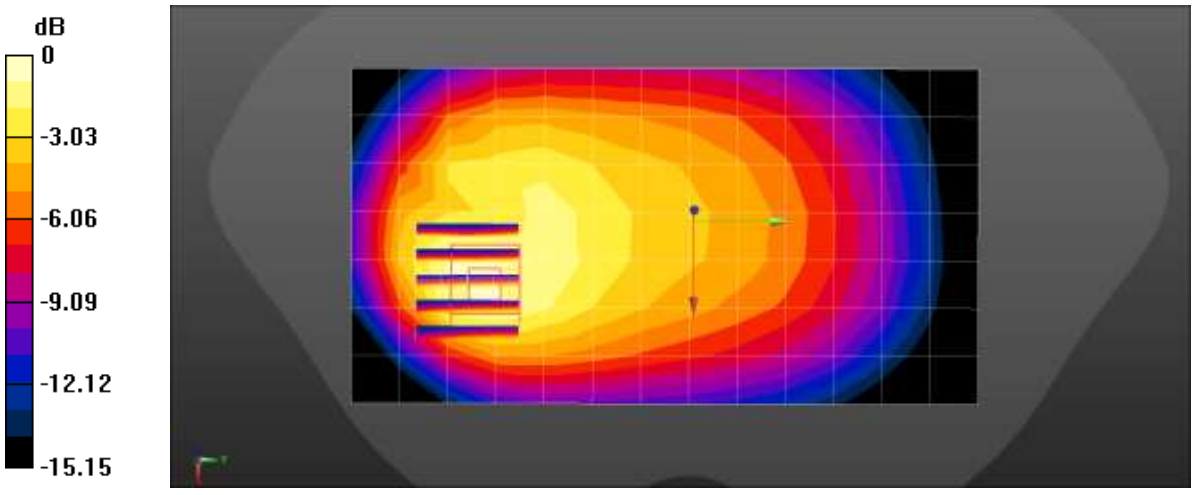
Communication System: UID 0, LTE Band 71 (0); Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 680.5 MHz; σ = 0.894 S/m; ε_r = 43.27; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 680.5 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 71 Body Rear QPSK 20MHz 1RB 0offset 133297ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.274 W/kg

LTE Band 71 Body Rear QPSK 20MHz 1RB 0offset 133297ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.56 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.394 W/kg
SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.135 W/kg
Maximum value of SAR (measured) = 0.331 W/kg



0 dB = 0.331 W/kg = -4.80 dBW/kg

◆ 5G NR SUB 6

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/14/2023
Plot No.:	B18
Band:	NR FDD Band n7 Body/Hotspot – Antenna F

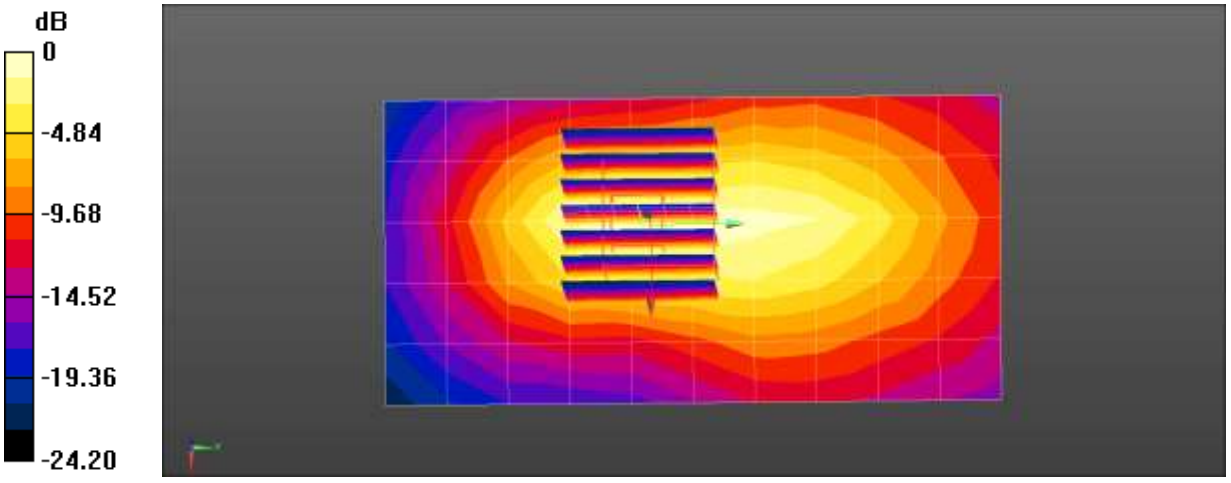
Communication System: UID 0, NR Band n7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2535 MHz; σ = 1.957 S/m; ε_r = 38.328; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.57, 7.57, 7.57) @ 2535 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n7 Body Top DFT-s QPSK 40MHz 108RB 0offset 507000ch/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.31 W/kg

NR Band n7 Body Top DFT-s QPSK 40MHz 108RB 0offset 507000ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 24.31 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 0.759 W/kg; SAR(10 g) = 0.352 W/kg
Maximum value of SAR (measured) = 1.34 W/kg



0 dB = 1.34 W/kg = 1.27 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	09/21/2023
Plot No.:	B19
Band:	NR FDD Band n12 Body/Hotspot – Antenna E

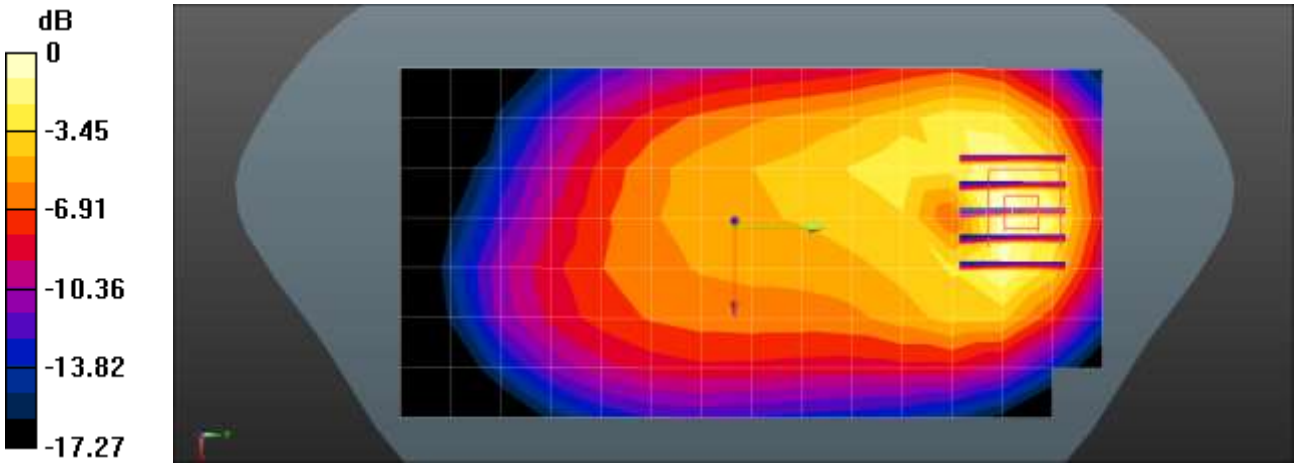
Communication System: UID 0, NR Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.873 S/m; ε_r = 42.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 707.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n12 Body Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.286 W/kg

NR Band n12 Body Rear DFT-s QPSK 15MHz 36RB 22offset 141500ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.83 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.387 W/kg
SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.115 W/kg
Maximum value of SAR (measured) = 0.313 W/kg



0 dB = 0.313 W/kg = -5.04 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	09/12/2023
Plot No.:	B20
Band:	NR FDD Band n25 Body/Hotspot – Antenna A

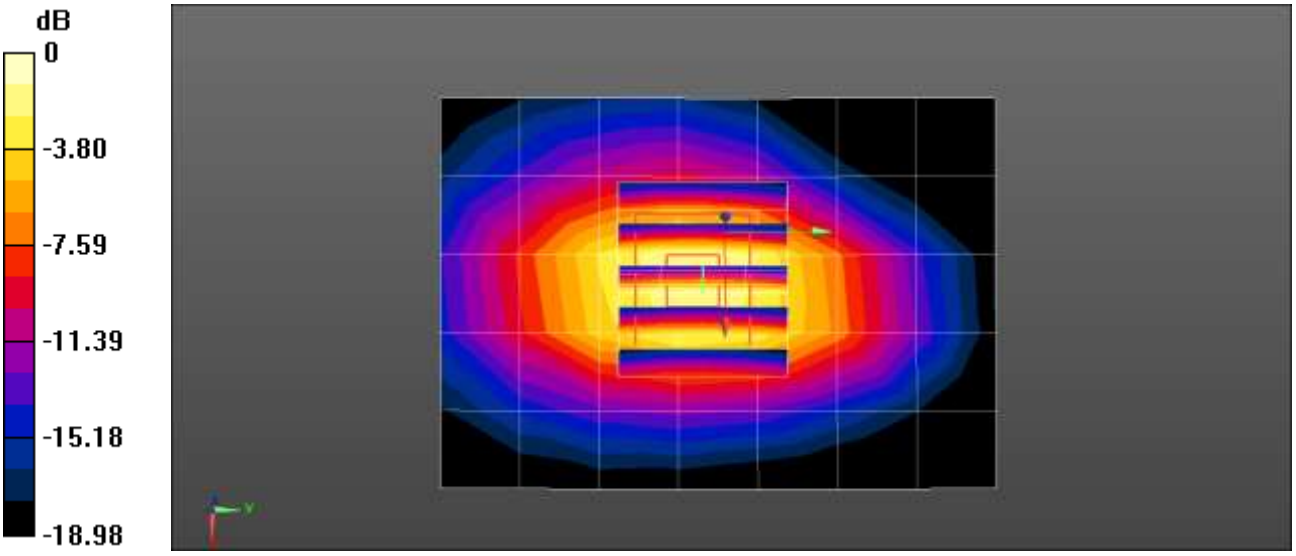
Communication System: UID 0, n25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.399 S/m; ε_r = 38.645; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.41, 7.93, 8.06) @ 1882.5 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n25 Body Bottom DFT-s QPSK 40MHz 108RB 0offset 376500ch/Area Scan (6x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.834 W/kg

NR Band n25 Body Bottom DFT-s QPSK 40MHz 108RB 0offset 376500ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.63 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.39 W/kg
SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.387 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.9 ℃
Ambient Temperature:	21.9 ℃
Test Date:	09/14/2023
Plot No.:	B21
Band:	NR FDD Band n26 Body/Hotspot – Antenna A

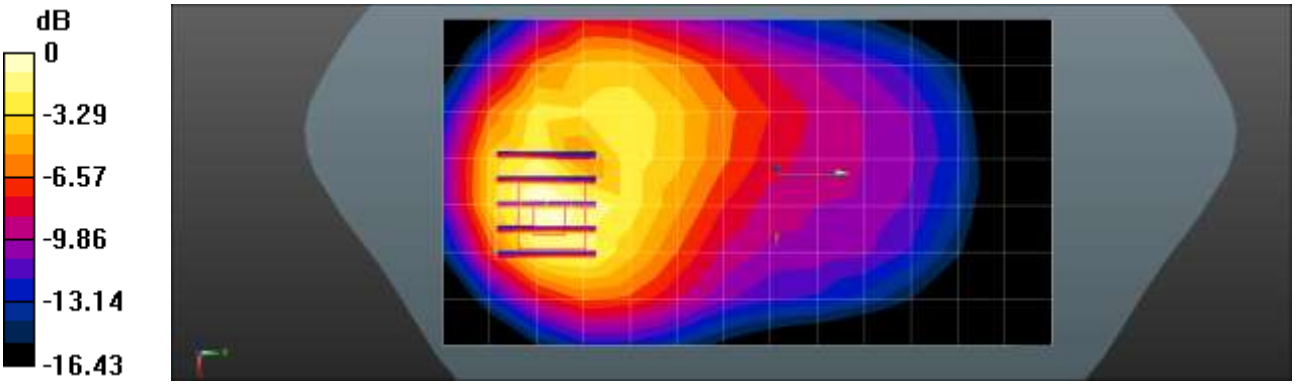
Communication System: UID 0, NR Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.919 S/m; ε_r = 42.376; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.1, 10.1, 10.1) @ 831.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n26 Body Rear DFT-s QPSK 20MHz 1RB 1offset 166300ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.548 W/kg

NR Band n26 Body Rear DFT-s QPSK 20MHz 1RB 1offset 166300ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.333 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.703 W/kg
SAR(1 g) = 0.376 W/kg; SAR(10 g) = 0.210 W/kg
Maximum value of SAR (measured) = 0.556 W/kg



0 dB = 0.556 W/kg = -2.55 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.2 ℃
Test Date:	09/19/2023
Plot No.:	B22
Band:	NR FDD Band n30 Body/Hotspot – Antenna F

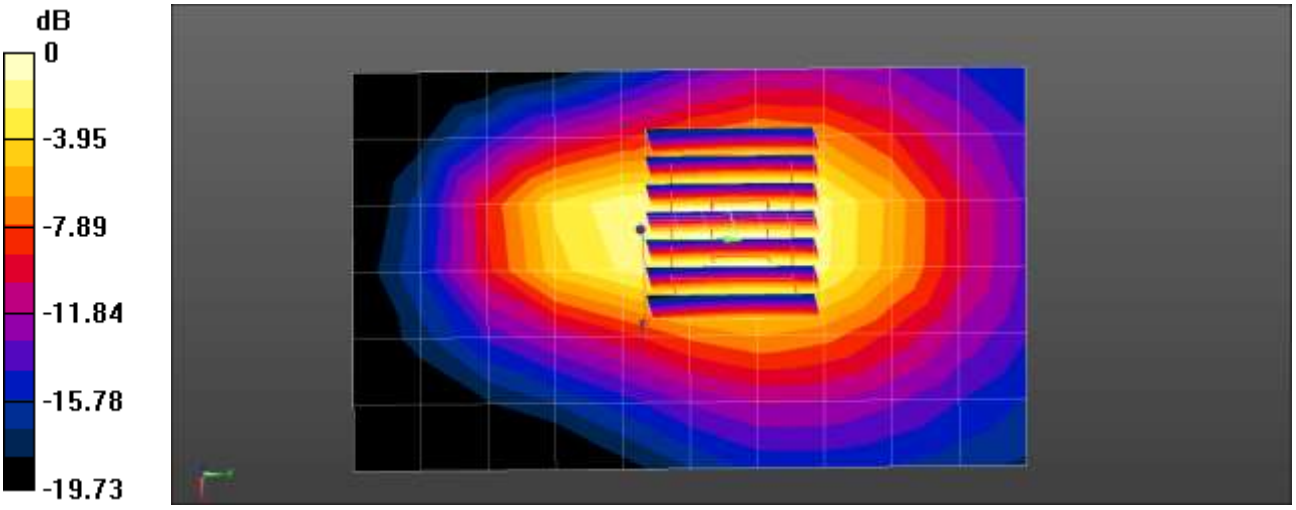
Communication System: UID 0, NR n30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.727 S/m; ε_r = 39.252; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(8.37, 8.37, 8.37) @ 2310 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n30 Body Top DFT-s QPSK 10MHz 1RB 1offset 462000ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.923 W/kg

NR Band n30 Body Top DFT-s QPSK 10MHz 1RB 1offset 462000ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.26 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.723 W/kg; SAR(10 g) = 0.374 W/kg
Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.15 W/kg = 0.61 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.1 ℃
Test Date:	09/15/2023
Plot No.:	B23
Band:	NR TDD Band n41 (PC2 Only) Body/Hotspot – Antenna B

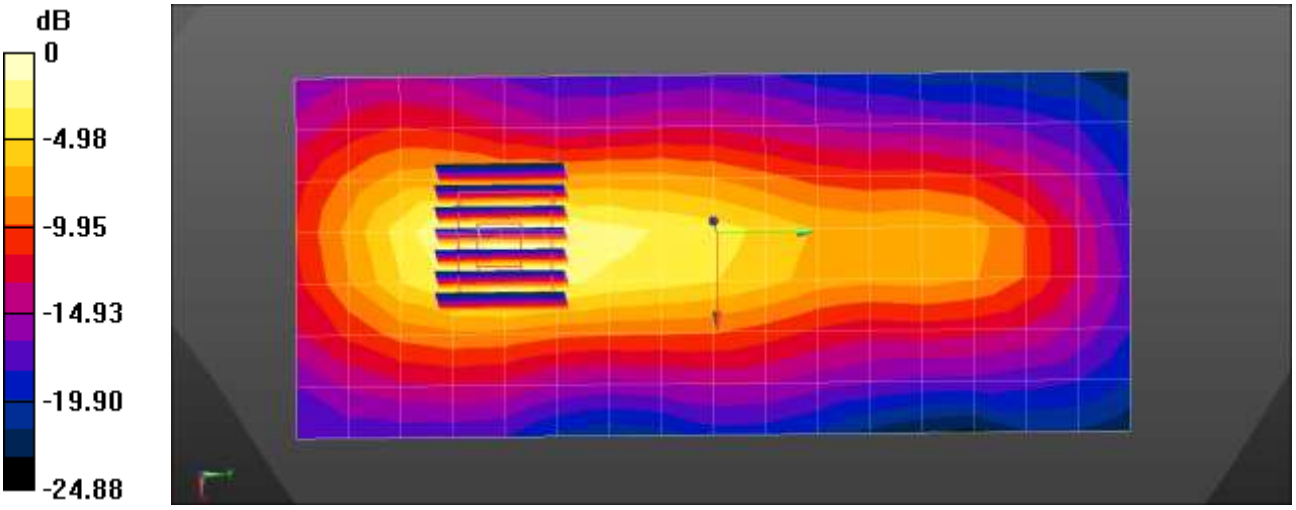
Communication System: UID 0, NR n41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2593 MHz; σ = 2.022 S/m; ε_r = 38.092; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2593 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n41 Body Left DFT-s QPSK 100MHz 270RB 0offset 518598ch/Area Scan (8x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.03 W/kg

NR Band n41 Body Left DFT-s QPSK 100MHz 270RB 0offset 518598ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.24 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.676 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	22.0 ℃
Test Date:	09/27/2023
Plot No.:	B24
Band:	NR TDD Band n48 (PC3 Only) Body/Hotspot – Antenna D

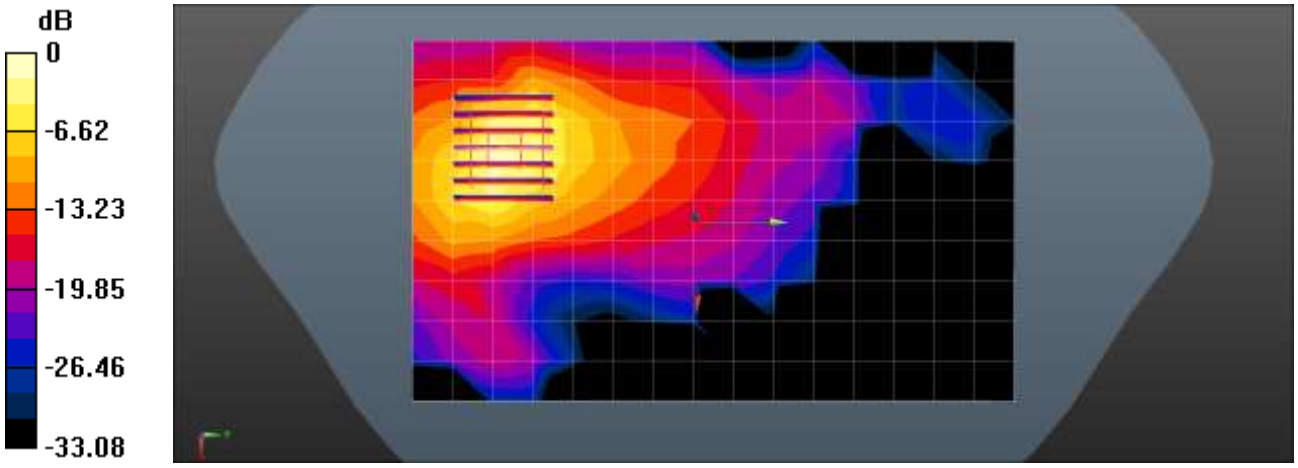
Communication System: UID 0, NR Band 48 (0); Frequency: 3570 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3570 MHz; σ = 3.015 S/m; ε_r = 38.514; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3570 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n48 Body Rear CW QPSK 40MHz 1RB 1offset 638000ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.24 W/kg

NR Band n48 Body Rear CW QPSK 40MHz 1RB 1offset 638000ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 3.455 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.82 W/kg
SAR(1 g) = 0.753 W/kg; SAR(10 g) = 0.286 W/kg
Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	09/13/2023
Plot No.:	B25
Band:	NR FDD Band n66 Body/Hotspot – Antenna A

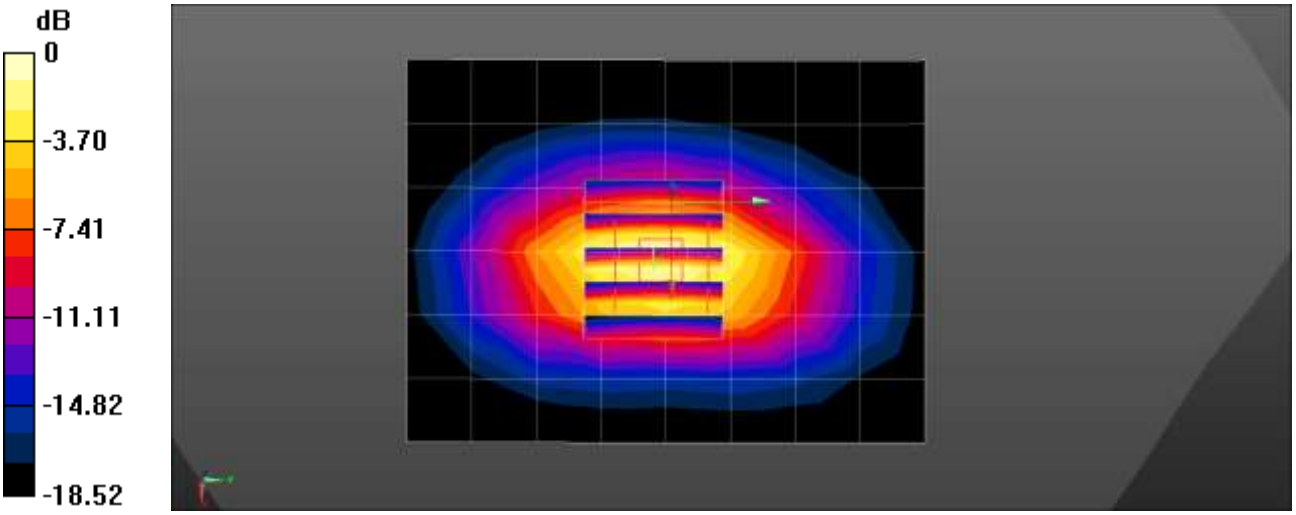
Communication System: UID 0, n66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.344 S/m; ε_r = 39.467; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.93, 8.41, 8.5) @ 1745 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n66 Body Bottom CP QPSK 40MHz 1RB 1offset 349000ch/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.40 W/kg

NR Band n66 Body Bottom CP QPSK 40MHz 1RB 1offset 349000ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.05 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 1.85 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.542 W/kg
Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/14/2023
Plot No.:	B26
Band:	NR FDD Band n70 Body/Hotspot – Antenna A

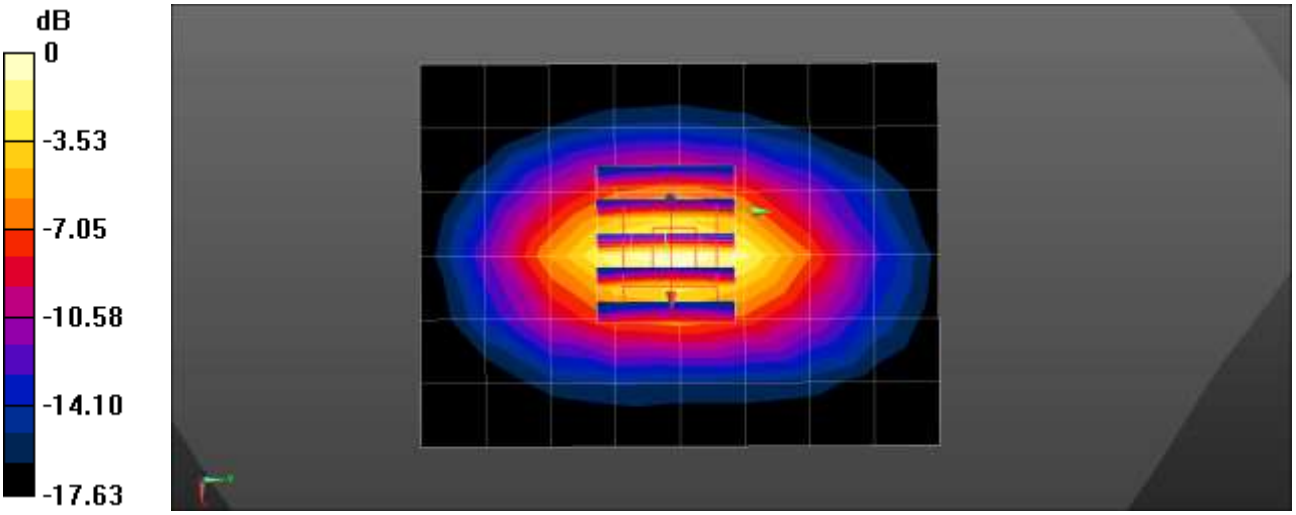
Communication System: UID 0, n70; Frequency: 1702.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1702.5 MHz; σ = 1.34 S/m; ε_r = 41.314; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(8.62, 8.62, 8.62) @ 1702.5 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n70 Body Bottom DFT-s QPSK 15MHz 1RB 1offset 340500ch/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.23 W/kg

NR Band n70 Body Bottom DFT-s QPSK 15MHz 1RB 1offset 340500ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 31.45 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.48 W/kg
SAR(1 g) = 0.817 W/kg; SAR(10 g) = 0.435 W/kg
Maximum value of SAR (measured) = 1.24 W/kg



0 dB = 1.24 W/kg = 0.93 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.8 ℃
Test Date:	09/20/2023
Plot No.:	B27
Band:	NR FDD Band n71 Body/Hotspot – Antenna E

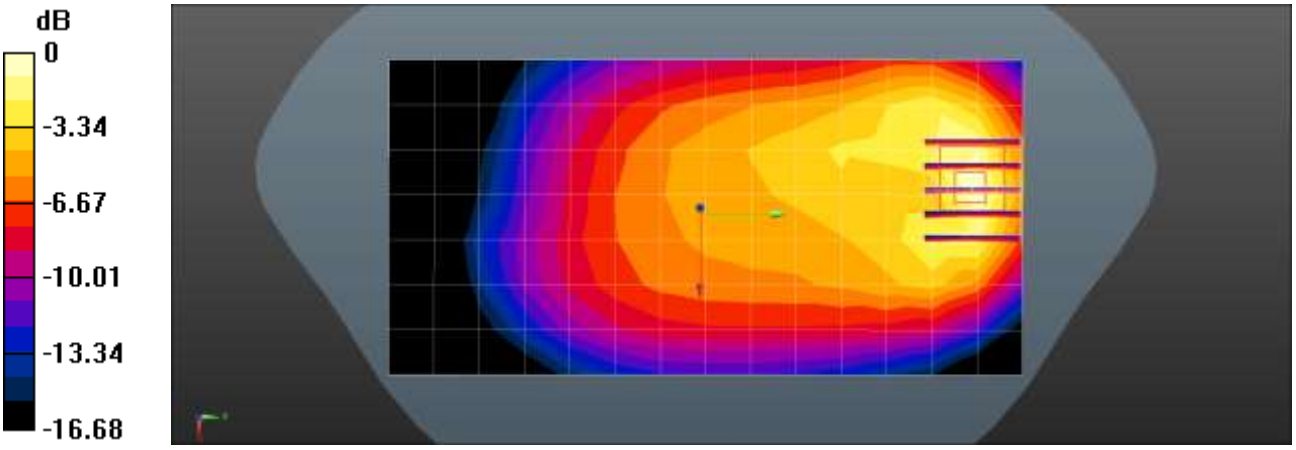
Communication System: UID 0, NR Band 71 (0); Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium parameters used (extrapolated): f = 680.5 MHz; σ = 0.838 S/m; ε_r = 42.878; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 680.5 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n71 Body Rear DFT-s QPSK 20MHz 50RB 28offset 136100ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.318 W/kg

NR Band n71 Body Rear DFT-s QPSK 20MHz 50RB 28offset 136100ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.83 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.398 W/kg
SAR(1 g) = 0.209 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (measured) = 0.319 W/kg



0 dB = 0.319 W/kg = -4.96 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	22.0 ℃
Test Date:	10/15/2023
Plot No.:	B28
Band:	NR TDD Band n77 (PC2 Only) Body/Hotspot – Antenna F

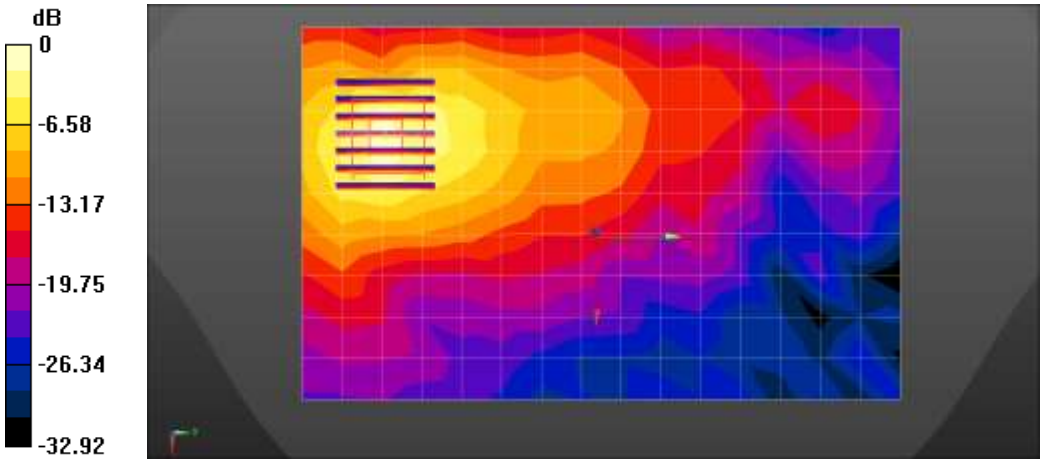
Communication System: UID 0, n77 (0); Frequency: 3750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3750 MHz; σ = 3.199 S/m; ε_r = 38.686; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(6.42, 6.09, 6.34) @ 3750 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

NR Band n77 Body Rear CW QPSK 100MHz 650000ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.47 W/kg

NR Band n77 Body Rear CW QPSK 100MHz 650000ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 5.489 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.14 W/kg
SAR(1 g) = 0.788 W/kg; SAR(10 g) = 0.308 W/kg
Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.4 ℃
Test Date:	10/04/2023
Plot No.:	B29
Band:	NR TDD Band n78 (PC2 Only) Body/Hotspot – Antenna F

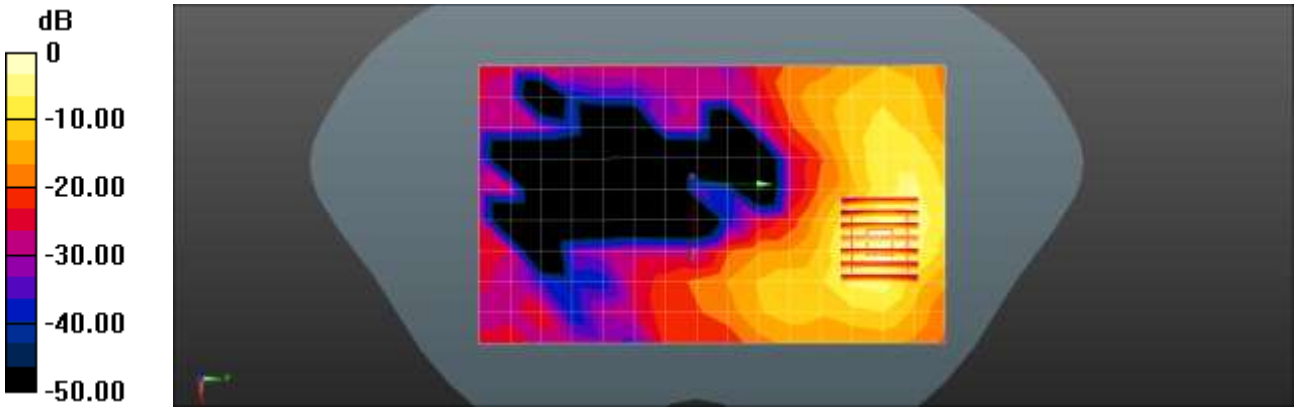
Communication System: UID 0, NR Band 77 (0); Frequency: 3750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3750 MHz; σ = 3.198 S/m; ε_r = 38.68; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n78 Body Rear DFT-s QPSK 100MHz 270RB 0offset 650000ch/Area Scan (10x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.809 W/kg

NR Band n78 Body Rear DFT-s QPSK 100MHz 270RB 0offset 650000ch/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.14 W/kg
SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.175 W/kg
Maximum value of SAR (measured) = 0.859 W/kg



0 dB = 0.859 W/kg = -0.66 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	09/22/2023
Plot No.:	B30
Band:	2.4GHz WLAN Body/Hotspot – Antenna H

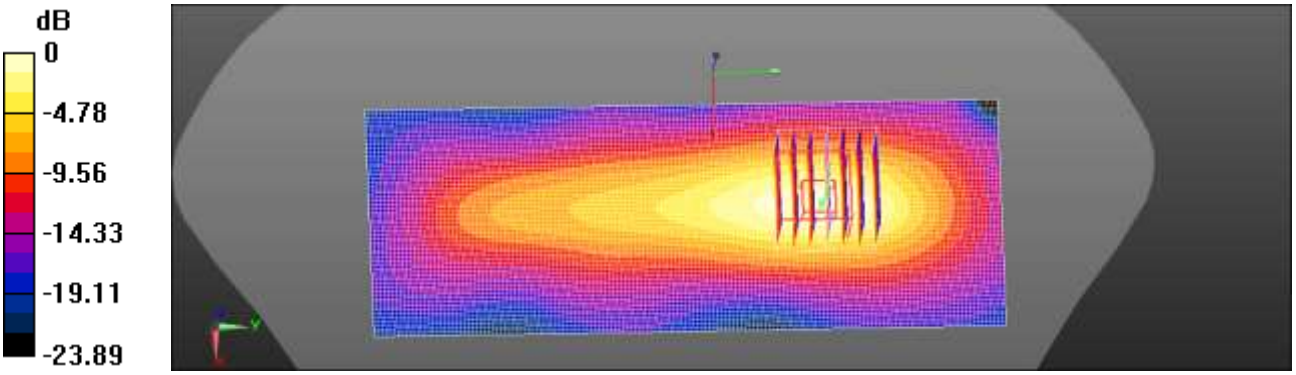
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2412 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2412 MHz; σ = 1.822 S/m; ε_r = 38.253; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2412 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

802.11b Body Left 1Mbps 1ch/Area Scan (61x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.916 W/kg

802.11b Body Left 1Mbps 1ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.63 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 1.13 W/kg
SAR(1 g) = 0.572 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.927 W/kg



0 dB = 0.927 W/kg = -0.33 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	09/24/2023
Plot No.:	B31
Band:	5GHz WLAN Body/Hotspot – Antenna H

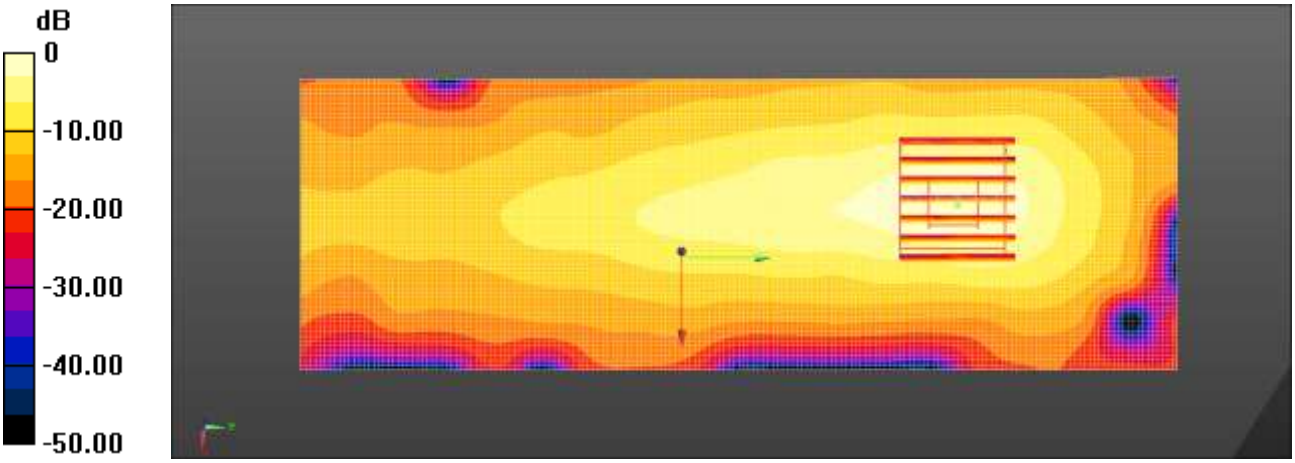
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5755 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5755 MHz; σ = 5.164 S/m; ε_r = 36.02; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.53, 4.29, 4.52) @ 5755 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

802.11n40 Body Left MCS0 151ch/Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.960 W/kg

802.11n40 Body Left MCS0 151ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.481 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.54 W/kg
SAR(1 g) = 0.416 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.953 W/kg



0 dB = 0.953 W/kg = -0.21 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.7 ℃
Ambient Temperature:	22.8 ℃
Test Date:	10/13/2023
Plot No.:	B32
Band:	Bluetooth Body/Hotspot – Antenna H

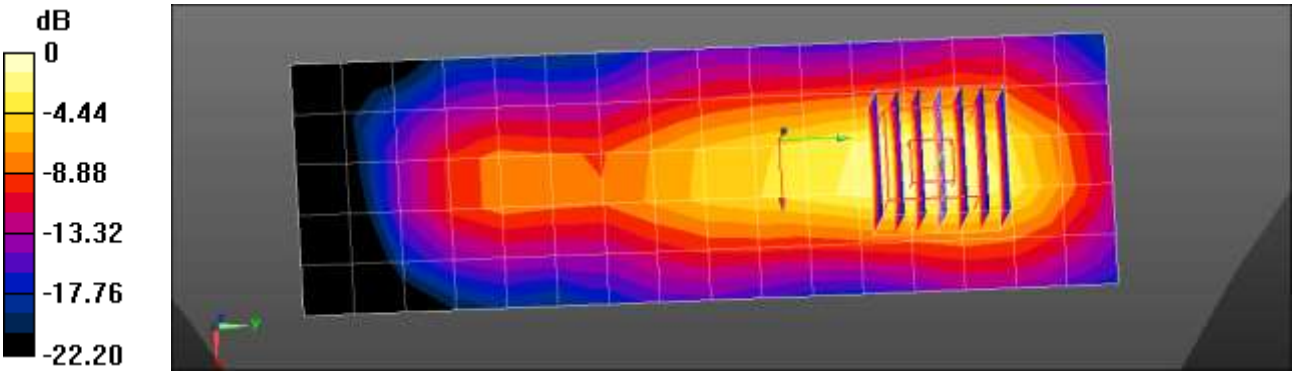
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.838 S/m; ε_r = 37.741; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(7.83, 7.83, 7.83) @ 2441 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Bluetooth Body Left DH5 39ch/Area Scan (6x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.366 W/kg

Bluetooth Body Left DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.725 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.618 W/kg
SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.135 W/kg
Maximum value of SAR (measured) = 0.489 W/kg



0 dB = 0.489 W/kg = -3.11 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	22.4 ℃
Ambient Temperature:	22.5 ℃
Test Date:	09/25/2023
Plot No.:	C1
Band:	5GHz WLAN Phablet – Antenna H

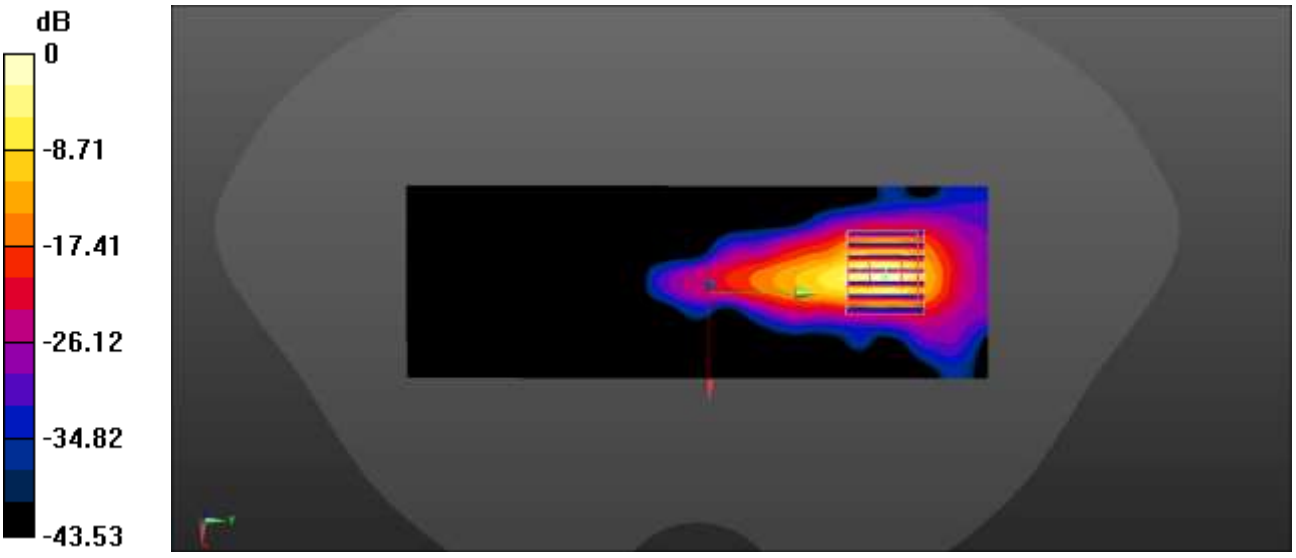
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5875 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5875 MHz; σ = 5.189 S/m; ε_r = 35.783; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.52, 4.22, 4.46) @ 5875 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

802.11n40 Body Left MCS0 175ch/Area Scan (61x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 25.9 W/kg

802.11n40 Body Left MCS0 175ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.236 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 74.1 W/kg
SAR(1 g) = 8.49 W/kg; SAR(10 g) = 1.75 W/kg
Maximum value of SAR (measured) = 29.9 W/kg



0 dB = 29.9 W/kg = 14.76 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.3 ℃
Ambient Temperature:	21.4 ℃
Test Date:	09/14/2023
Plot No.:	C2
Band:	NFC Phablet – Antenna NFC

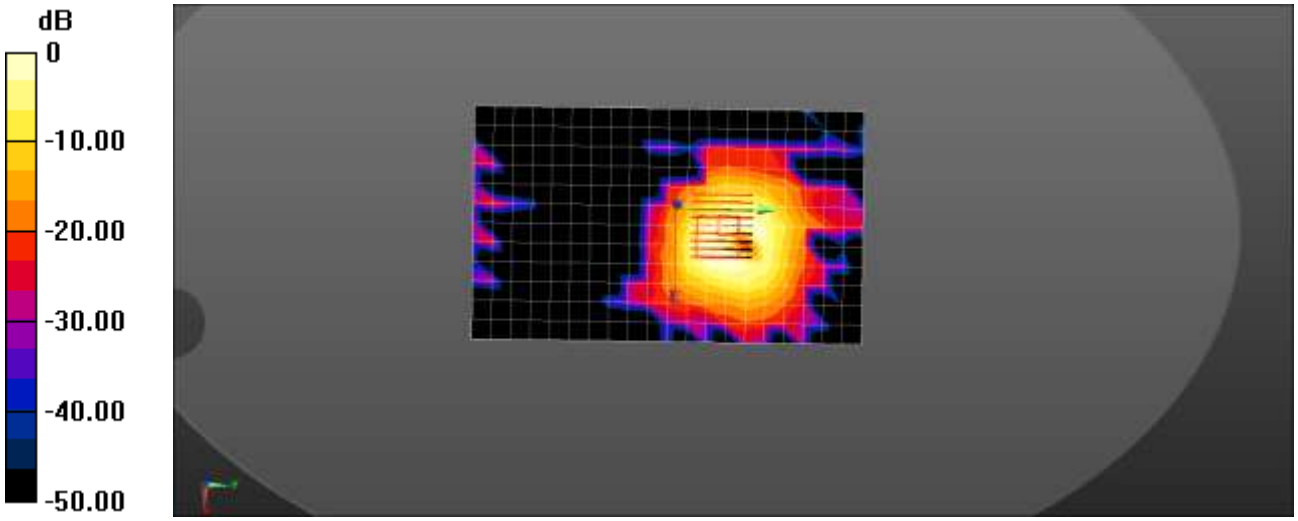
Communication System: UID 0, NFC (0); Frequency: 13.56 MHz;Duty Cycle: 1:1
Medium parameters used: f = 14 MHz; σ = 0.756 S/m; ε_r = 54.275; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.8, 5.8, 5.8) @ 13.56 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: ELI v5.0 Left; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NFC Phablet Rear Type B 106kbps/Area Scan (13x21x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.0930 W/kg

NFC Phablet Rear Type B 106kbps/Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0.5820 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.328 W/kg
SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.026 W/kg
Maximum value of SAR (measured) = 0.0922 W/kg



0 dB = 0.0922 W/kg = -10.35 dBW/kg

Appendix C. – Dipole Verification Plots

■ Verification Data (750 ㎒ Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.1 ℃
Test Date: 09/11/2023
Band: LTE Band 12 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

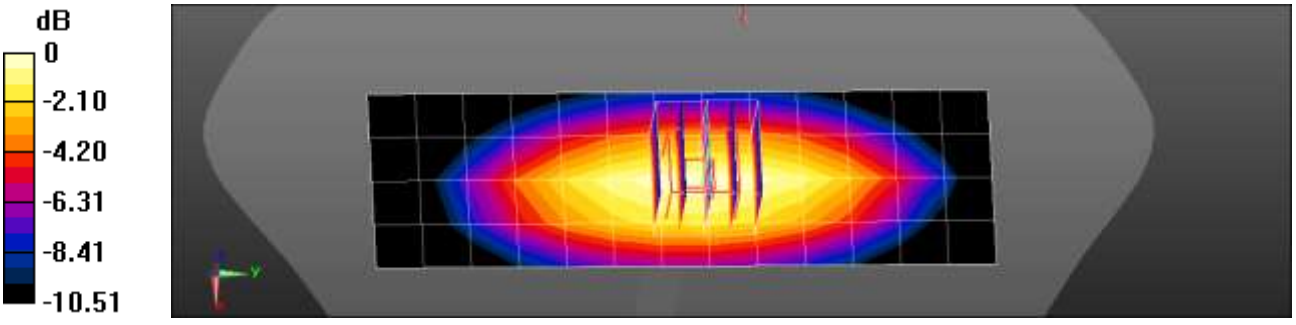
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.91 S/m; ε_r = 43.41; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 750 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.526 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.89 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.589 W/kg
SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.530 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/18/2023
Band:	LTE Band 12 – Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

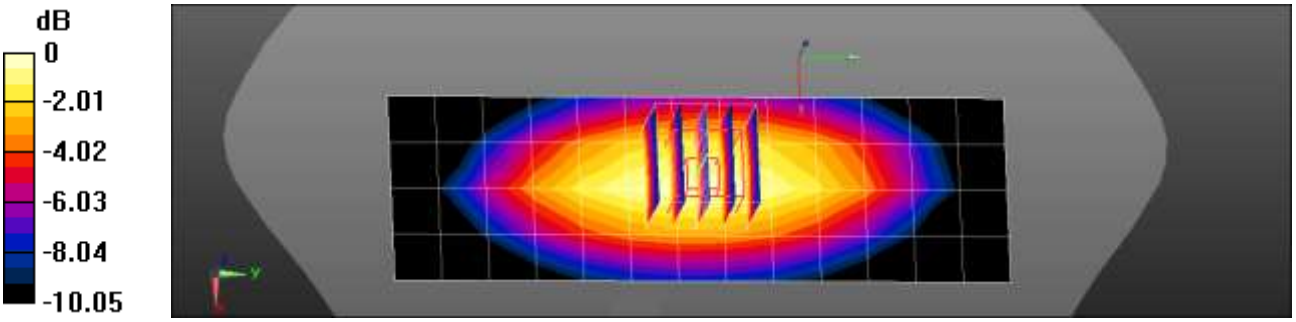
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.904 S/m; ε_r = 41.868; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 750 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.490 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.31 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.635 W/kg
SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.291 W/kg
Maximum value of SAR (measured) = 0.506 W/kg



0 dB = 0.506 W/kg = -2.96 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/12/2023
Band:	LTE Band 13 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

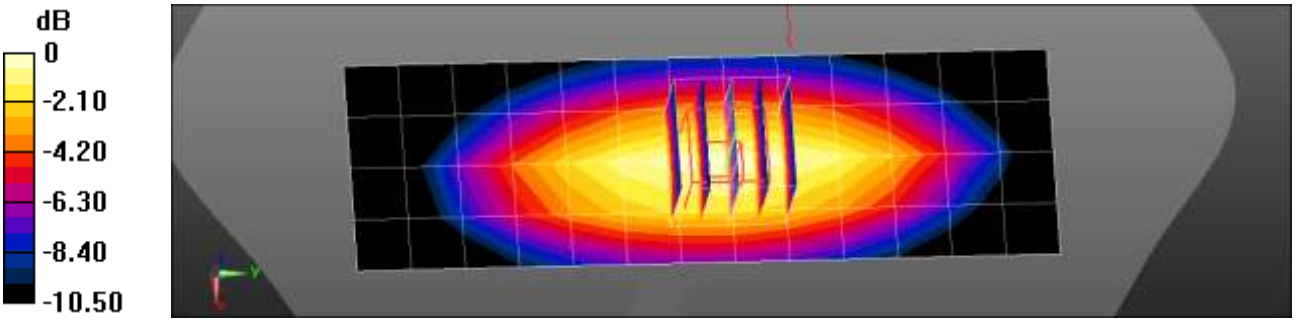
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.915 S/m; ε_r = 42.938; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 750 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.521 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.51 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.595 W/kg
SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 0.534 W/kg



0 dB = 0.534 W/kg = -2.72 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.3 ℃
Test Date:	09/19/2023
Band:	LTE Band 13 – Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

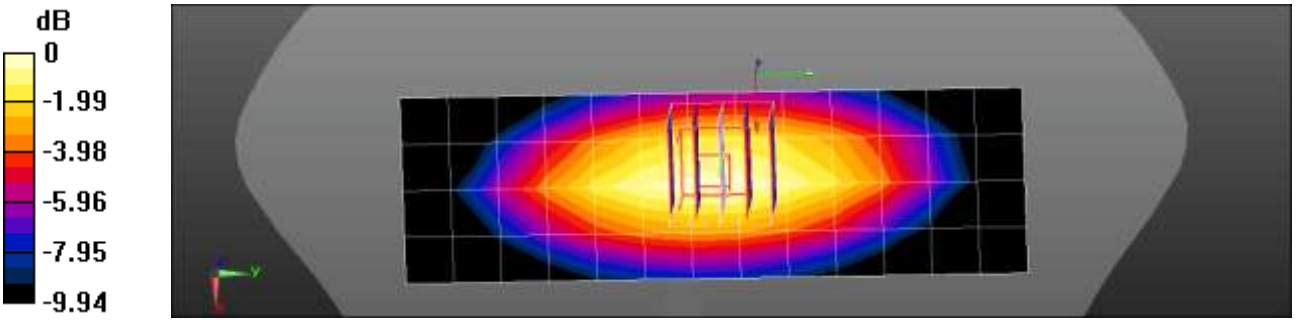
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.901 S/m; ε_r = 41.852; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 750 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.488 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.32 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.633 W/kg
SAR(1 g) = 0.435 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 0.505 W/kg



0 dB = 0.505 W/kg = -2.97 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.1 ℃
Test Date:	09/13/2023
Band:	LTE Band 14 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

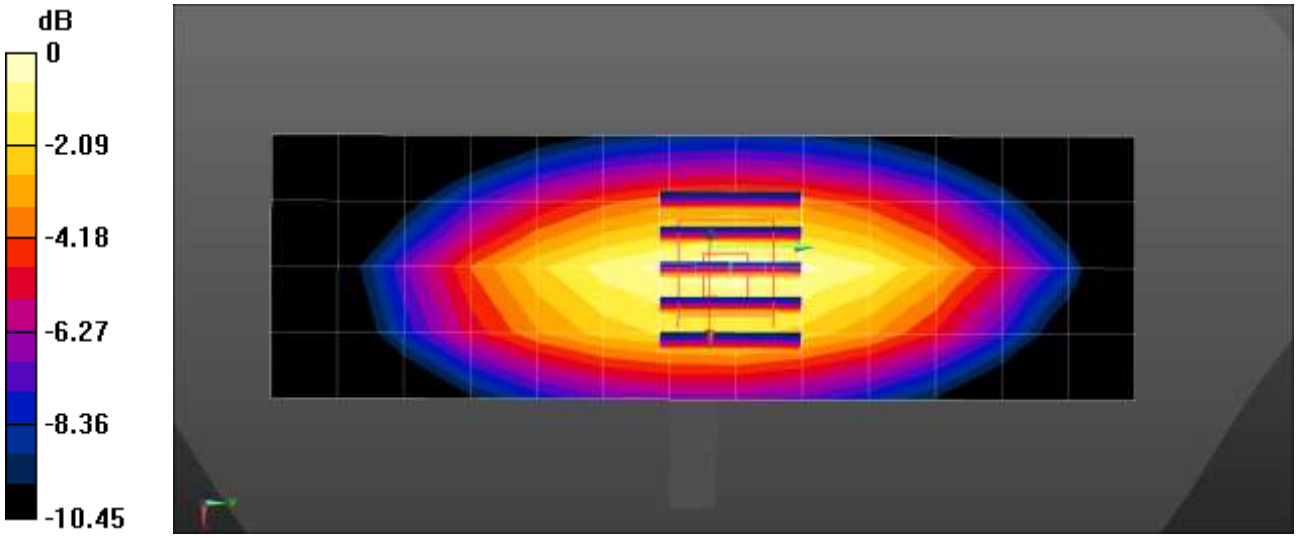
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.922 S/m; ε_r = 43.271; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 750 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.523 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.53 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.598 W/kg
SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.267 W/kg
Maximum value of SAR (measured) = 0.539 W/kg



0 dB = 0.539 W/kg = -2.68 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	09/20/2023
Band:	LTE Band 14 – Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

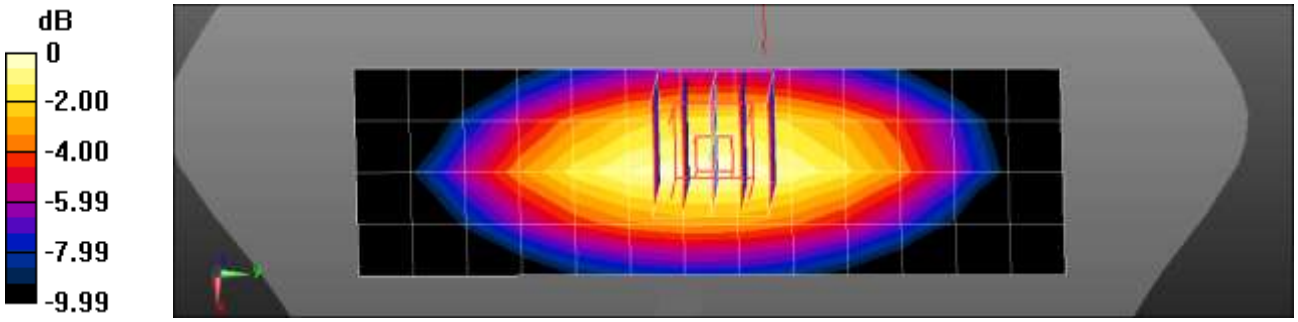
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.89 S/m; ε_r = 41.964; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 750 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.479 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.34 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.626 W/kg
SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.287 W/kg
Maximum value of SAR (measured) = 0.500 W/kg



0 dB = 0.500 W/kg = -3.01 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	09/15/2023
Band:	LTE Band 71 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

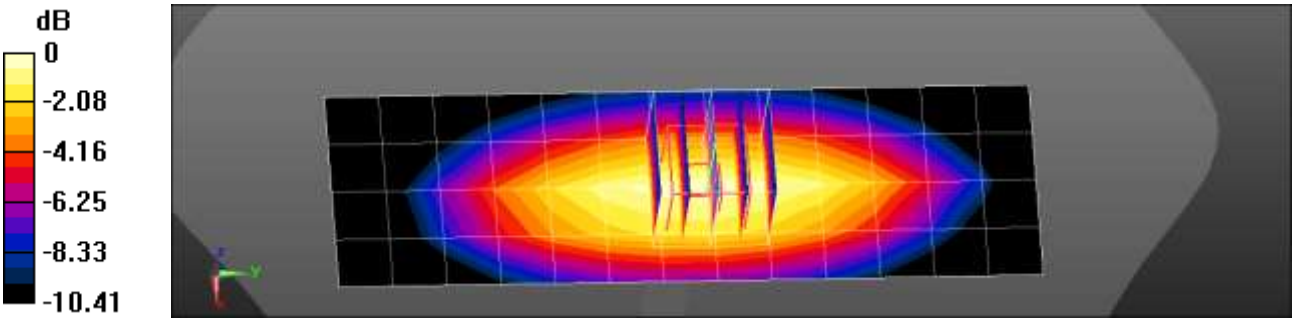
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.931 S/m; ε_r = 42.98; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.65, 10.09, 10.01) @ 750 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.525 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.55 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.605 W/kg
SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.270 W/kg
Maximum value of SAR (measured) = 0.541 W/kg



0 dB = 0.541 W/kg = -2.67 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.3 ℃
Test Date:	09/21/2023
Band:	LTE Band 71 - Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

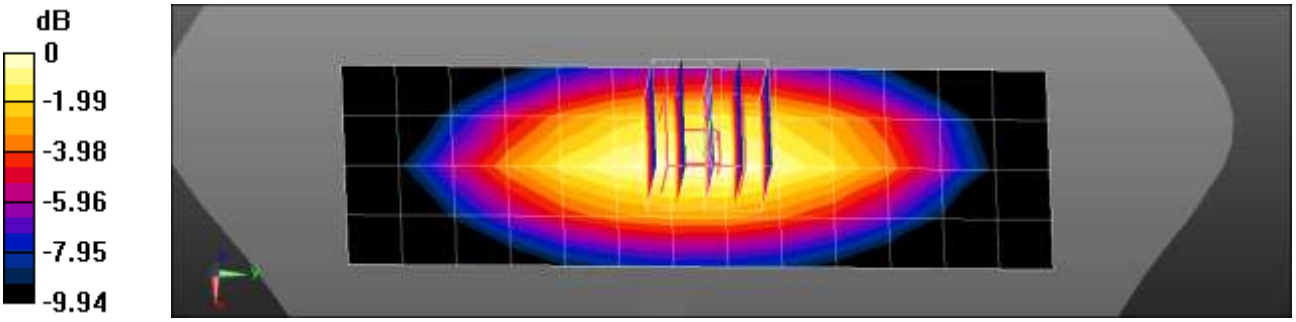
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.936 S/m; ε_r = 42.272; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.37, 6.37, 6.37) @ 750 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.505 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.29 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.657 W/kg
SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.302 W/kg
Maximum value of SAR (measured) = 0.526 W/kg



0 dB = 0.526 W/kg = -2.79 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.7 ℃
Test Date:	09/12/2023
Band:	GSM850 - Antenna A

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

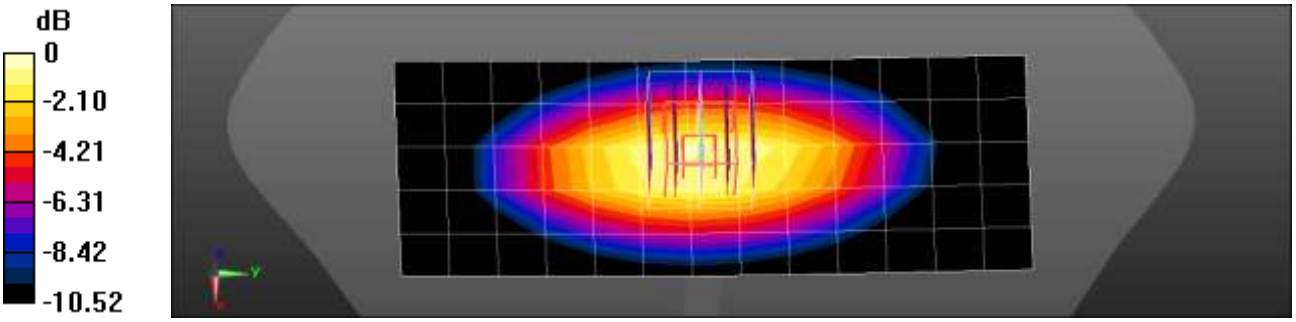
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.905 S/m; ε_r = 42.212; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 835 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.597 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.61 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.740 W/kg
SAR(1 g) = 0.519 W/kg; SAR(10 g) = 0.342 W/kg
Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.678 W/kg = -1.69 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	09/18/2023
Band:	GSM850 - Antenna E

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

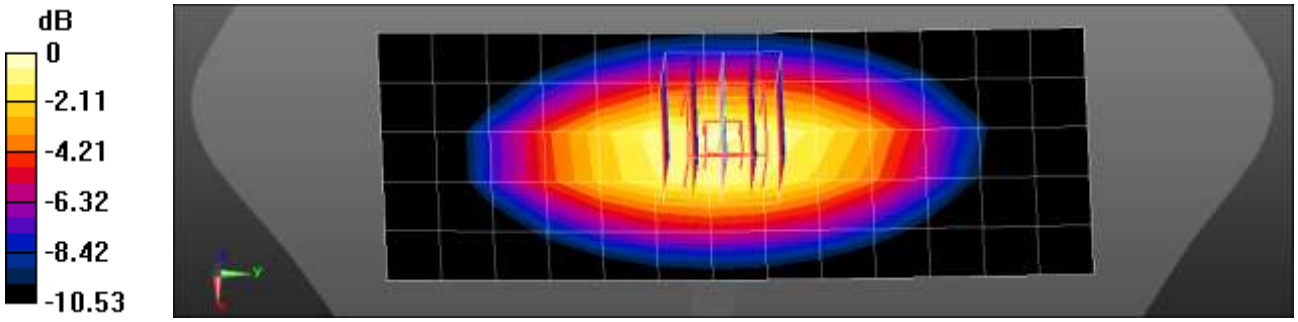
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.904 S/m; ε_r = 41.209; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 835 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.600 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.98 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.741 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.343 W/kg
Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	09/13/2023
Band:	UMTS Band 5 - Antenna A

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

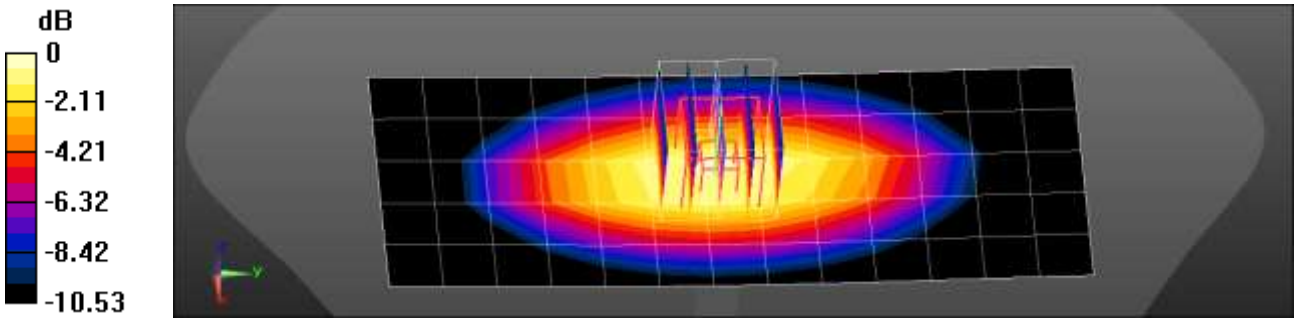
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.9 S/m; ε_r = 42.194; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 835 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.603 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.02 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.737 W/kg
SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.342 W/kg
Maximum value of SAR (measured) = 0.674 W/kg



0 dB = 0.674 W/kg = -1.71 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/14/2023
Band:	UMTS Band 5 - Antenna E

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

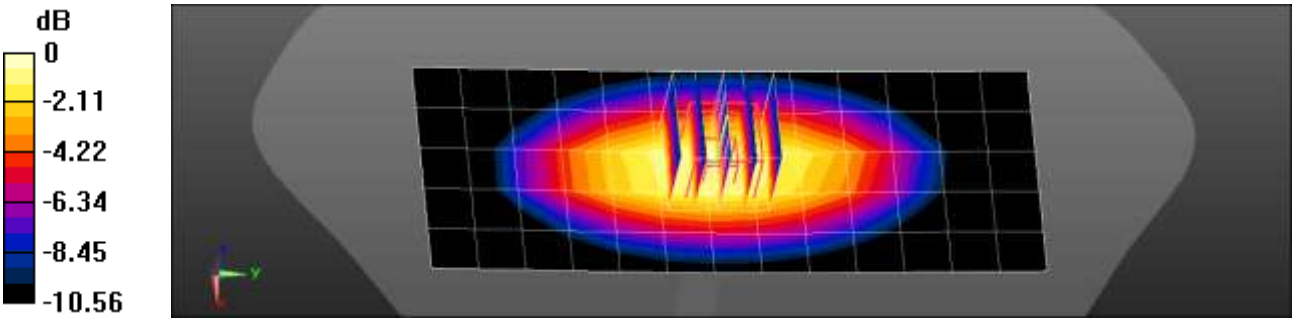
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.904 S/m; ε_r = 41.197; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(9.83, 9.9, 10.74) @ 835 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD 000 P40 CD; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.605 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.96 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.746 W/kg
SAR(1 g) = 0.523 W/kg; SAR(10 g) = 0.345 W/kg
Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	09/14/2023
Band:	LTE FDD Band 26 - Antenna A

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

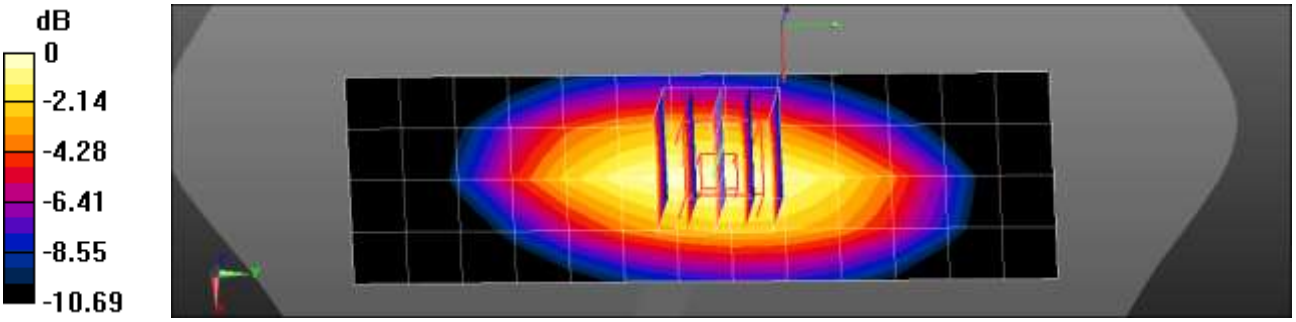
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.911 S/m; ε_r = 42.395; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.2, 9.46, 9.58) @ 835 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.631 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.44 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.713 W/kg
SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.320 W/kg
Maximum value of SAR (measured) = 0.643 W/kg



0 dB = 0.643 W/kg = -1.92 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.1 ℃
Test Date:	09/25/2023
Band:	LTE FDD Band 26 - Antenna E

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

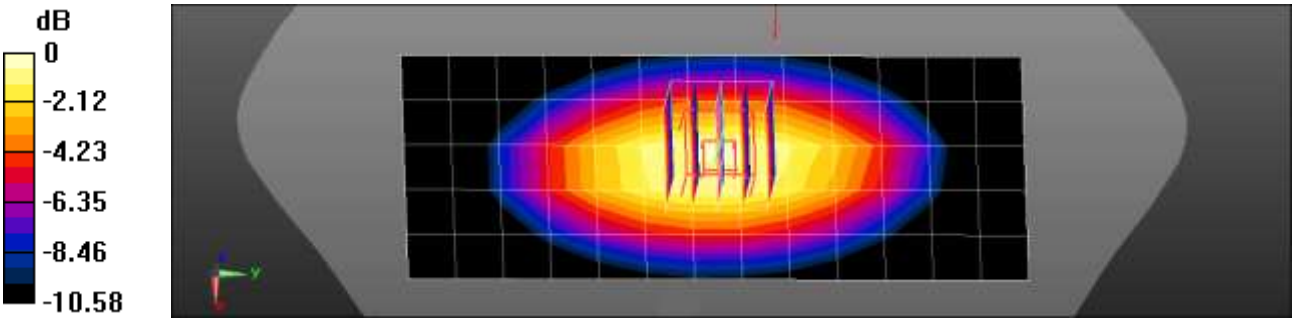
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.919 S/m; ε_r = 43.015; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.11, 6.11, 6.11) @ 835 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.526 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.24 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.759 W/kg
SAR(1 g) = 0.510 W/kg; SAR(10 g) = 0.336 W/kg
Maximum value of SAR (measured) = 0.595 W/kg



0 dB = 0.595 W/kg = -2.25 dBW/kg

■ Verification Data (1 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/16/2023
Band:	UMTS Band 4 - Antenna A

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

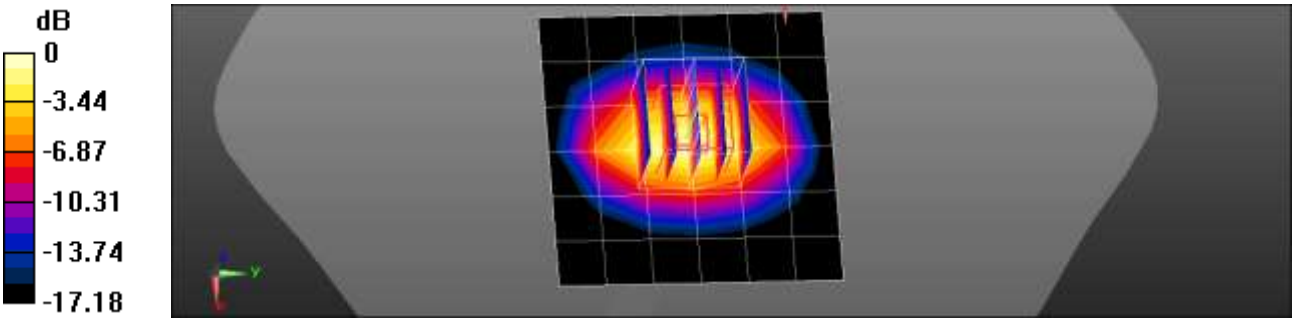
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.4 S/m; ε_r = 39.39; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.36, 7.55, 8.61) @ 1800 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1800MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.94 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.95 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 3.60 W/kg
SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1.06 W/kg
Maximum value of SAR (measured) = 3.05 W/kg



0 dB = 3.05 W/kg = 4.84 dBW/kg

■ Verification Data (1 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.3 ℃
Test Date:	09/11/2023
Band:	LTE FDD Band 66 - Antenna A

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

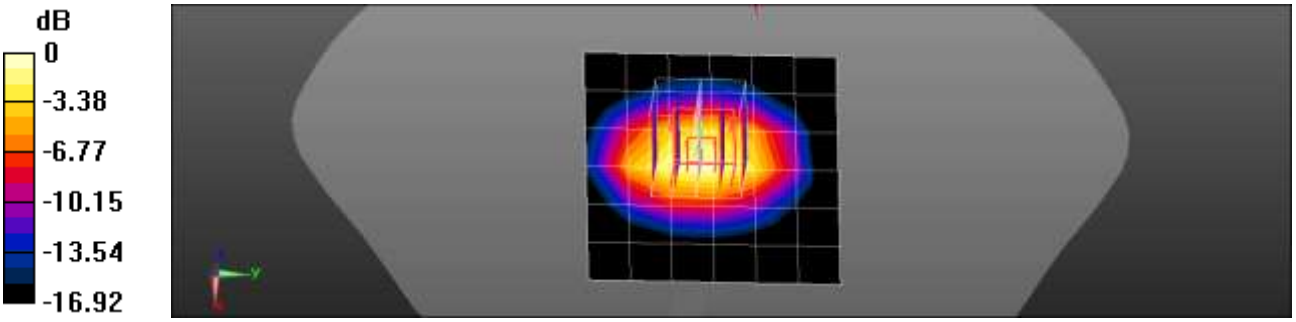
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.385 S/m; ε_r = 39.391; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.35, 5.35, 5.35) @ 1800 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1800MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.09 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 39.80 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.44 W/kg
SAR(1 g) = 1.9 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

■ Verification Data (1 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/19/2023
Band:	LTE FDD Band 66 - Antenna F

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

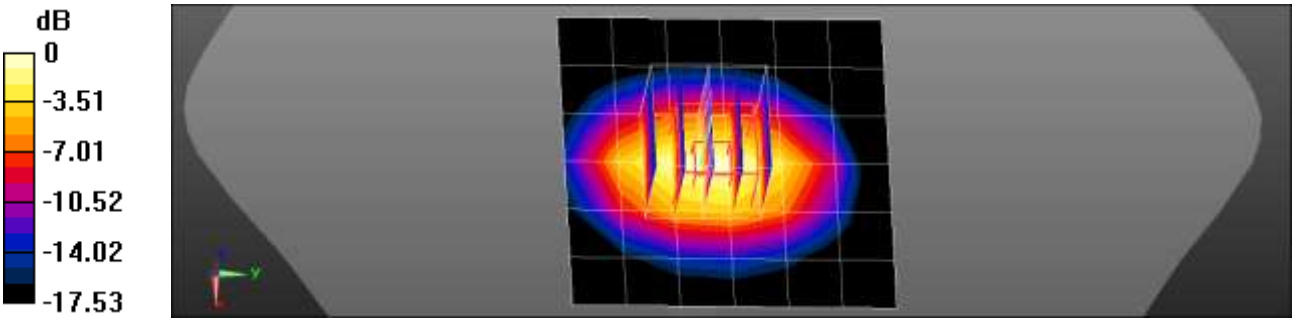
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.387 S/m; ε_r = 39.396; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.35, 5.35, 5.35) @ 1800 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1800MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.23 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 41.01 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 3.46 W/kg
SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.1 ℃
Test Date:	09/15/2023
Band:	GSM1900 - Antenna A

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d061

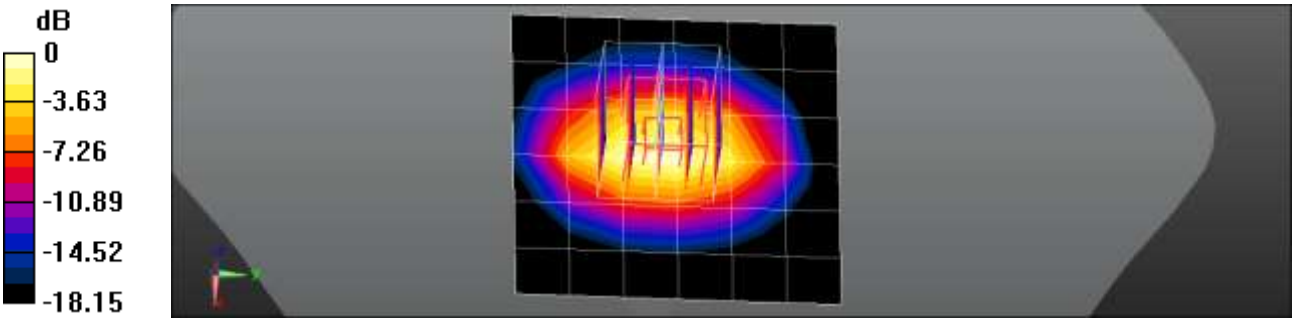
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.414 S/m; ε_r = 41.329; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1900 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.00 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.28 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 3.84 W/kg
SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 3.23 W/kg



0 dB = 3.23 W/kg = 5.09 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/14/2023
Band:	UMTS Band 2 - Antenna A

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d061

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN:xxx
Procedure Name: 1900MHz Head Verification

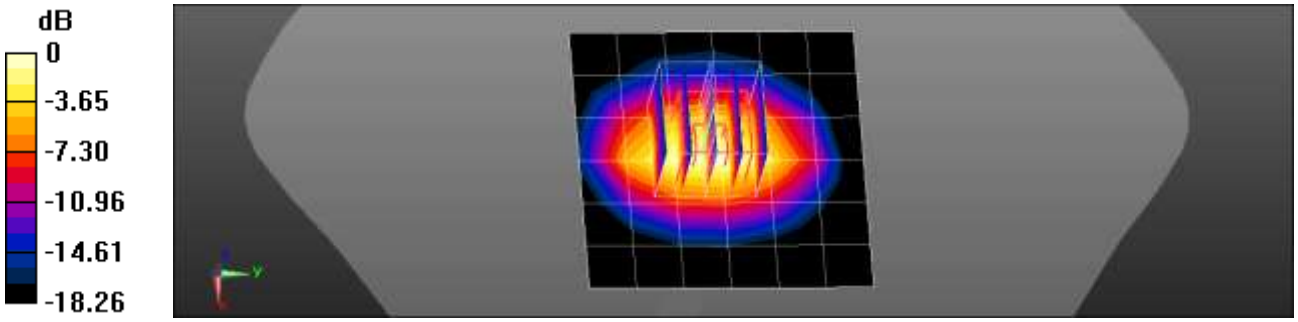
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.414 S/m; ε_r = 41.33; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(8.19, 7.47, 8.43) @ 1900 MHz; Calibrated: 2023-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1464; Calibrated: 2023-06-16
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.99 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.16 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 3.88 W/kg
SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/12/2023
Band:	LTE FDD Band 25 - Antenna A

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d061

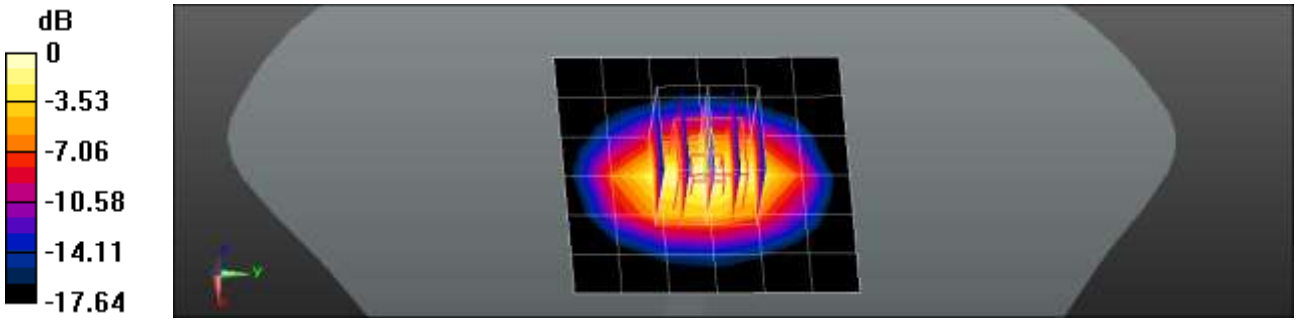
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.421 S/m; ε_r = 39.974; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.61 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.20 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.1 W/kg; SAR(10 g) = 1.11 W/kg
Maximum value of SAR (measured) = 2.65 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/19/2023
Band:	LTE FDD Band 25 - Antenna F

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d061

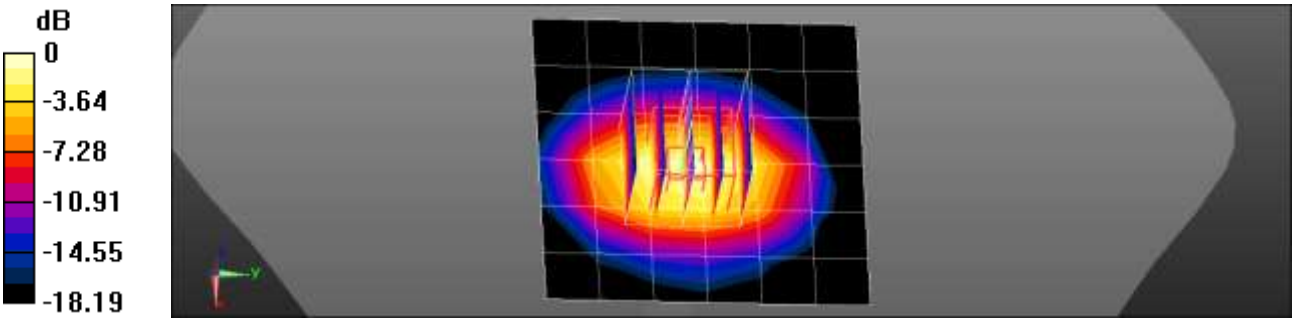
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.436 S/m; ε_r = 40.234; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.05, 5.05, 5.05) @ 1900 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM_Right_20170913; Type: QD000P40CC; Serial: 1070
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.23 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.68 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.08 W/kg
Maximum value of SAR (measured) = 2.63 W/kg



0 dB = 2.63 W/kg = 4.20 dBW/kg

■ Verification Data (2 300 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/15/2023
Band:	LTE FDD Band 30 - Antenna A

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1010

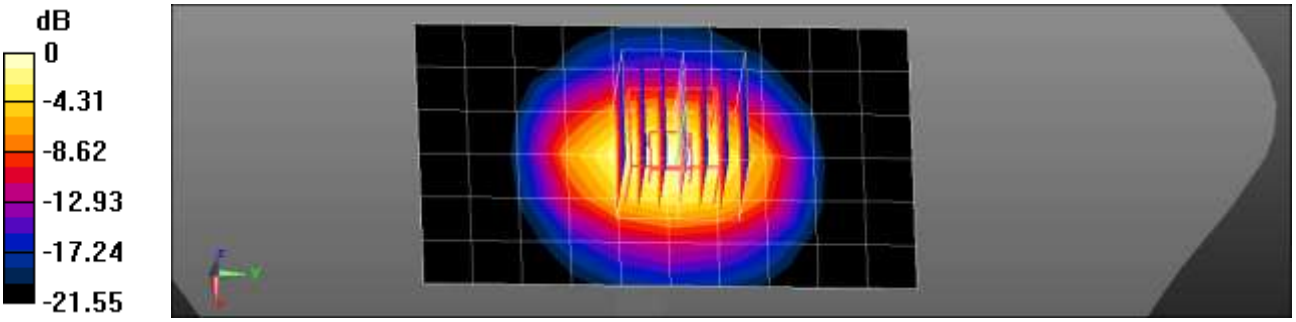
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.72 S/m; ε_r = 39.284; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5, 5, 5) @ 2300 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2300MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.93 W/kg

2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.42 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 4.68 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 3.04 W/kg = 4.83 dBW/kg

■ Verification Data (2 300 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/16/2023
Band:	LTE FDD Band 30 - Antenna F

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1010

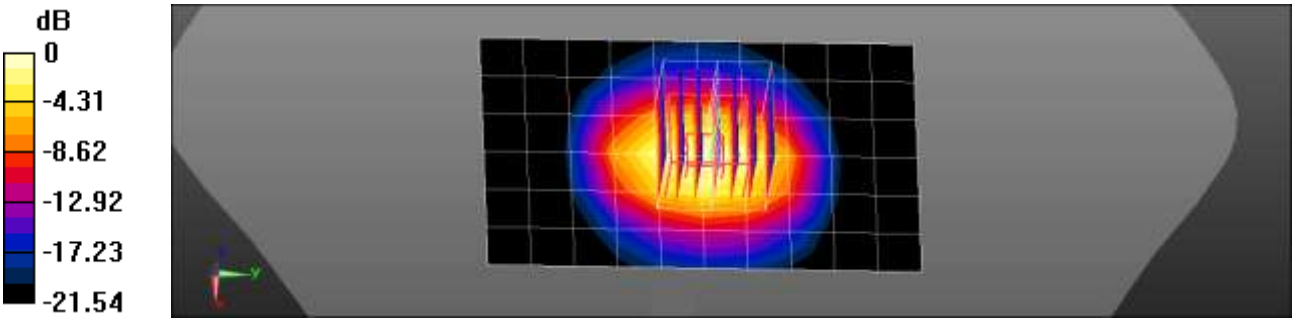
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.72 S/m; ε_r = 39.282; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5, 5, 5) @ 2300 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2300MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 2.95 W/kg

2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 42.81 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 4.66 W/kg
SAR(1 g) = 2.31 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

■ Verification Data (2 450 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/22/2023
Band:	2.4GHz WLAN SISO

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1049

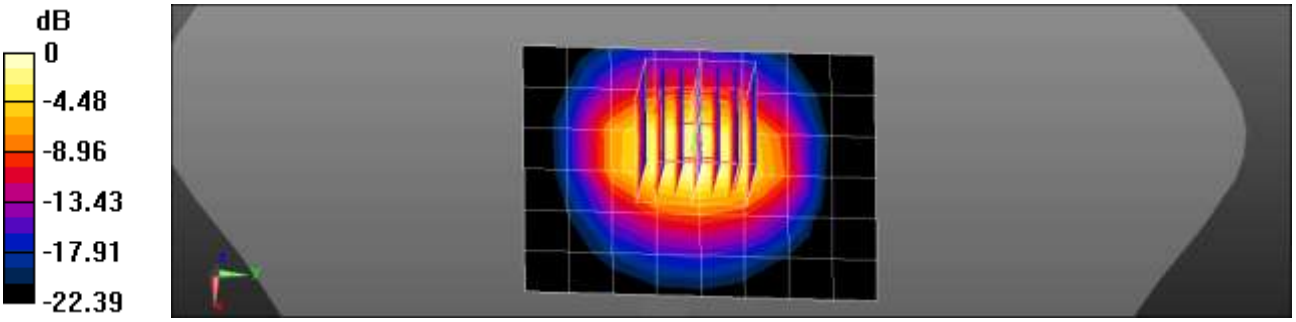
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.865 S/m; ε_r = 38.091; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2450MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.40 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.46 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 5.39 W/kg
SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 4.38 W/kg



0 dB = 4.38 W/kg = 6.41 dBW/kg

■ Verification Data (2 450 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	23.7 ℃
Test Date:	10/13/2023
Band:	Bluetooth

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1049

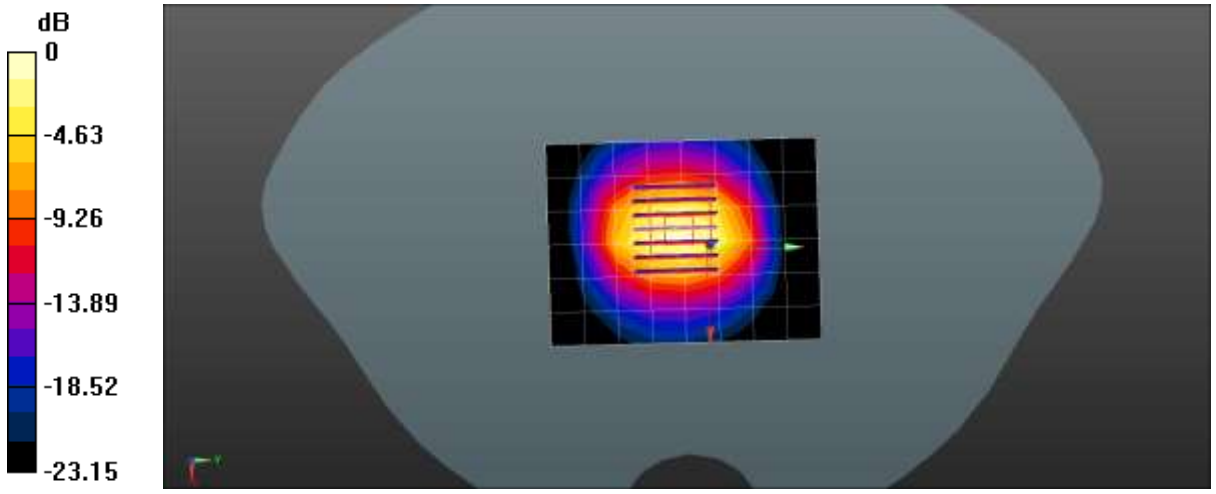
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.802 S/m; ε_r = 38.974; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7654; ConvF(7.94, 7.91, 8.56) @ 2450 MHz; Calibrated: 2023-05-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2023-05-23
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2450MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.81 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.86 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 5.31 W/kg
SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 4.22 W/kg



0 dB = 4.22 W/kg = 6.25 dBW/kg

■ Verification Data (2 450 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.7 ℃
Test Date:	10/13/2023
Band:	Bluetooth Body

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:1049

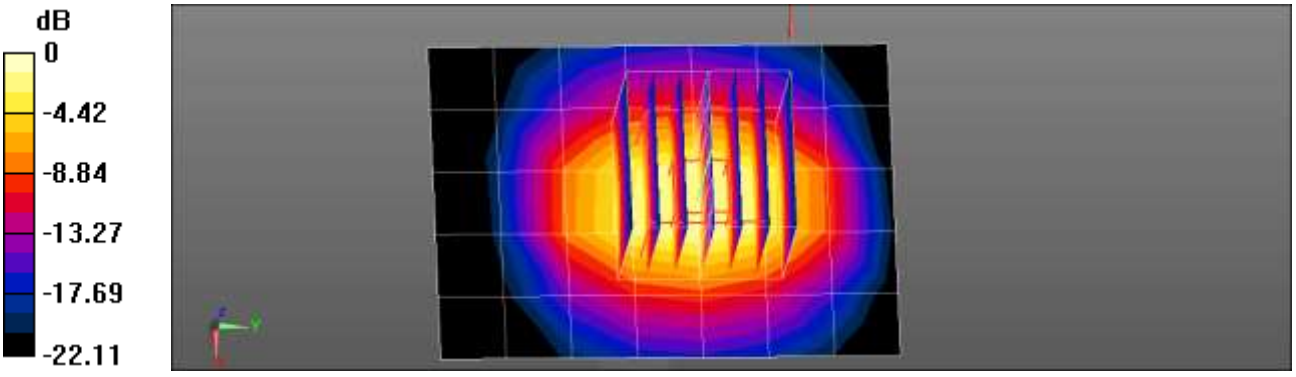
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.848 S/m; ε_r = 37.706; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(7.83, 7.83, 7.83) @ 2450 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

2450MHz Head Verification/Area Scan (6x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.12 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.59 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 5.46 W/kg
SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.35 W/kg



0 dB = 4.35 W/kg = 6.38 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0 ℃
Test Date:	09/11/2023
Band:	LTE FDD Band 7 - Antenna B

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		CW, 0--	2600.0, 0	7.94	1.96	38.1

Hardware Setup

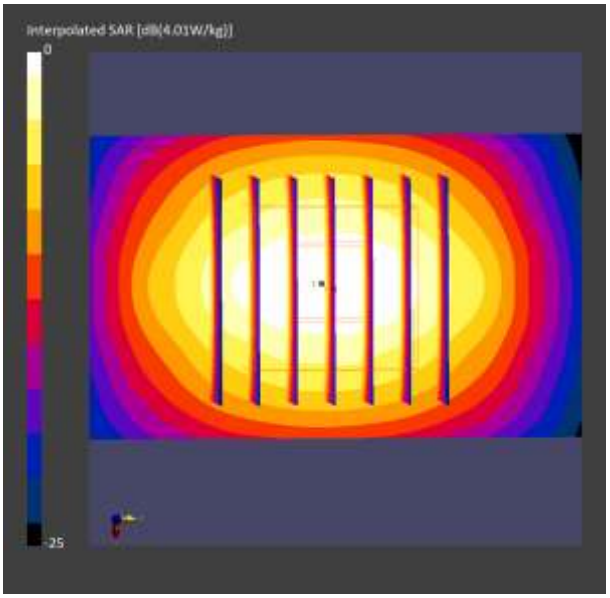
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN7622, 2022-11-22	DAE4 Sn1417, 2023-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.97	2.99
psSAR10g [W/Kg]	1.29	1.29
Power Drift [dB]	-0.02	-0.01



■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	09/18/2023
Band:	LTE FDD Band 7 - Antenna F

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

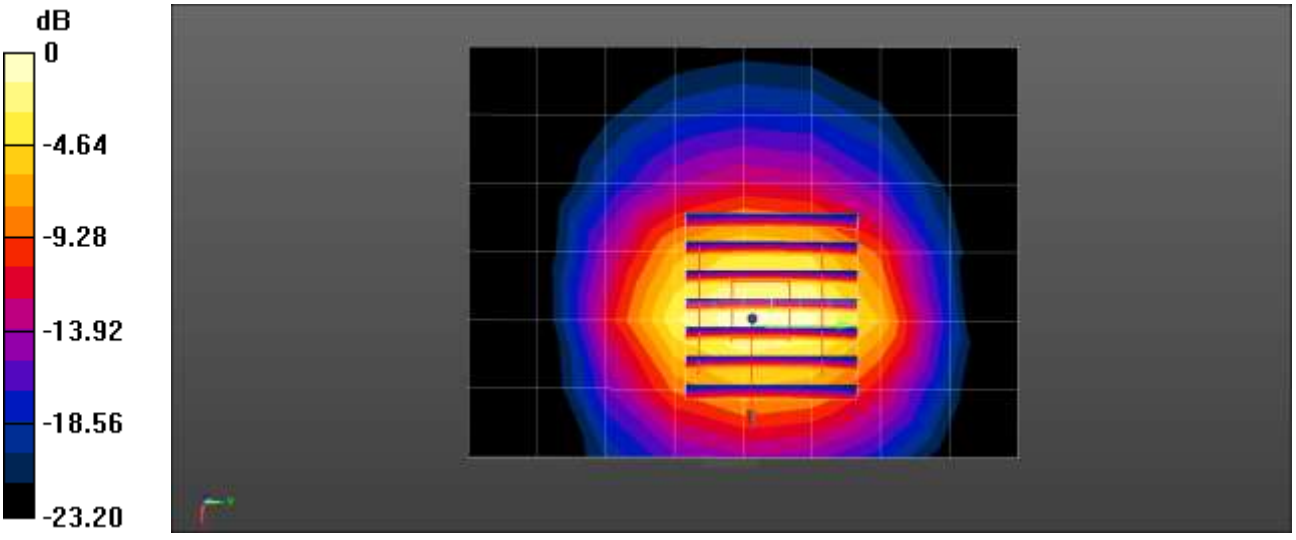
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.032 S/m; ε_r = 37.568; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2600 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.45 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.61 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 5.86 W/kg
SAR(1 g) = 2.77 W/kg; SAR(10 g) = 1.25 W/kg
Maximum value of SAR (measured) = 4.69 W/kg



0 dB = 4.69 W/kg = 6.71 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/19/2023
Band:	LTE TDD Band 38 - Antenna F

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

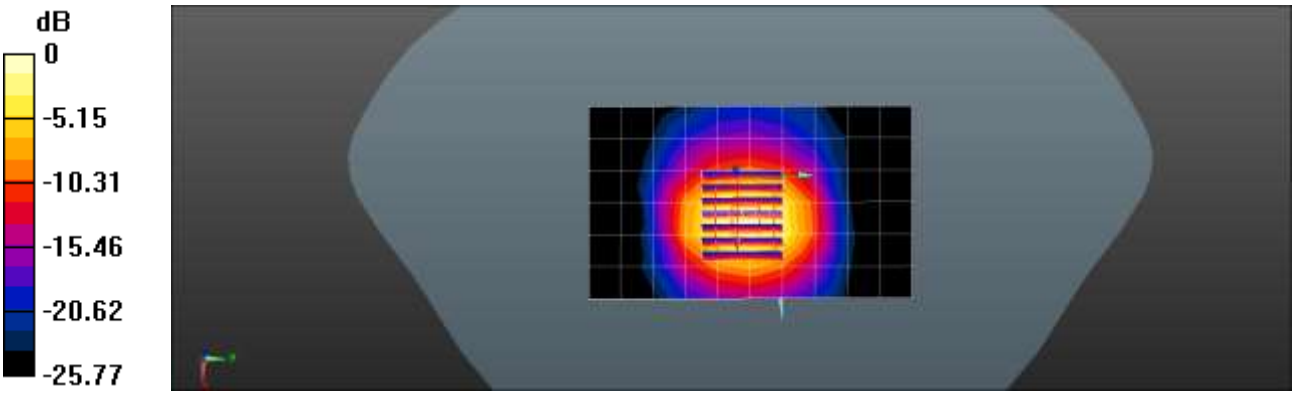
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.955 S/m; ε_r = 39.737; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.59, 4.59, 4.59) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2600MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.09 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 37.51 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 6.19 W/kg
SAR(1 g) = 2.77 W/kg; SAR(10 g) = 1.21 W/kg
Maximum value of SAR (measured) = 3.73 W/kg



0 dB = 3.73 W/kg = 5.72 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.0 ℃
Test Date: 09/12/2023
Band: LTE TDD Band 41 - Antenna B

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	10,		CW, 0--	2600.0, 0	7.94	1.96	38.1

Hardware Setup

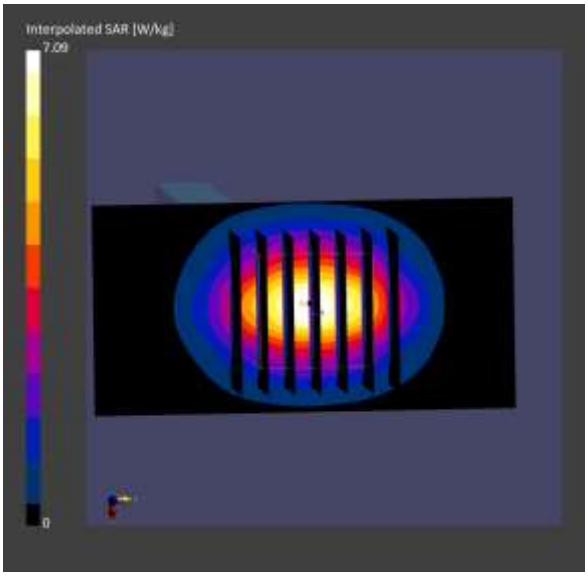
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	EX3DV4 - SN7622, 2022-11-22	DAE4 Sn1417, 2023-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	n/a	Yes
Grading Ratio	n/a	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.99	2.99
psSAR10g [W/Kg]	1.30	1.29
Power Drift [dB]	-0.02	-0.01



■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	09/19/2023
Band:	LTE TDD Band 41 - Antenna F

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

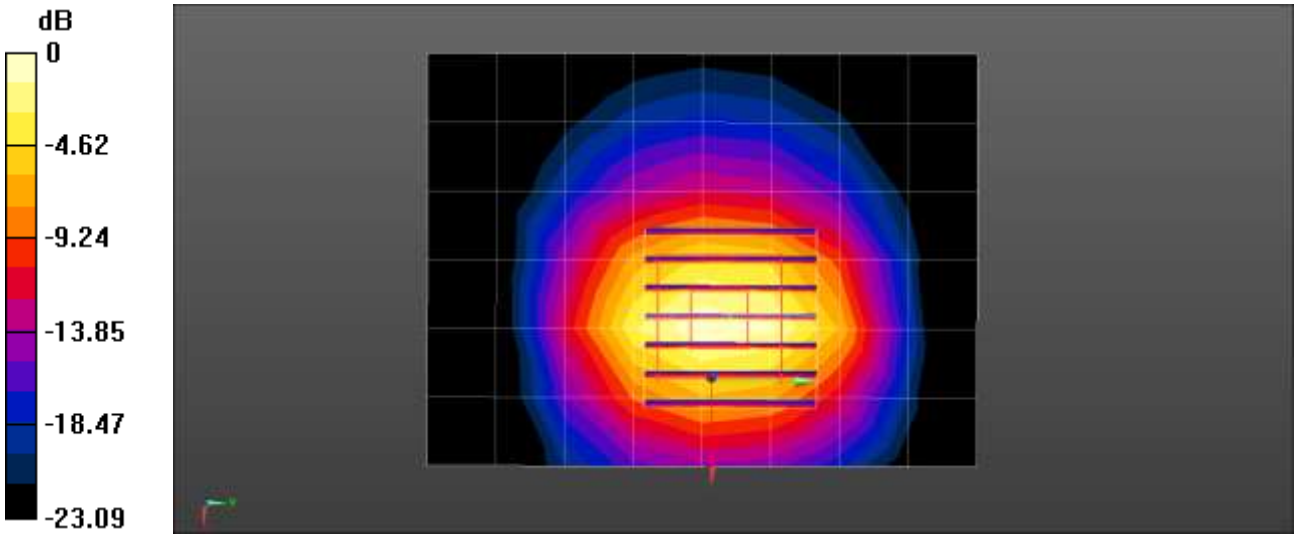
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.031 S/m; ε_r = 37.661; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(7.42, 7.88, 7.75) @ 2600 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.47 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.49 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 5.86 W/kg
SAR(1 g) = 2.77 W/kg; SAR(10 g) = 1.25 W/kg.6%
Maximum value of SAR (measured) = 4.70 W/kg



0 dB = 4.70 W/kg = 6.72 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.4 ℃
Test Date:	10/27/2023
Band:	LTE TDD Band 41 - Antenna B Head

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

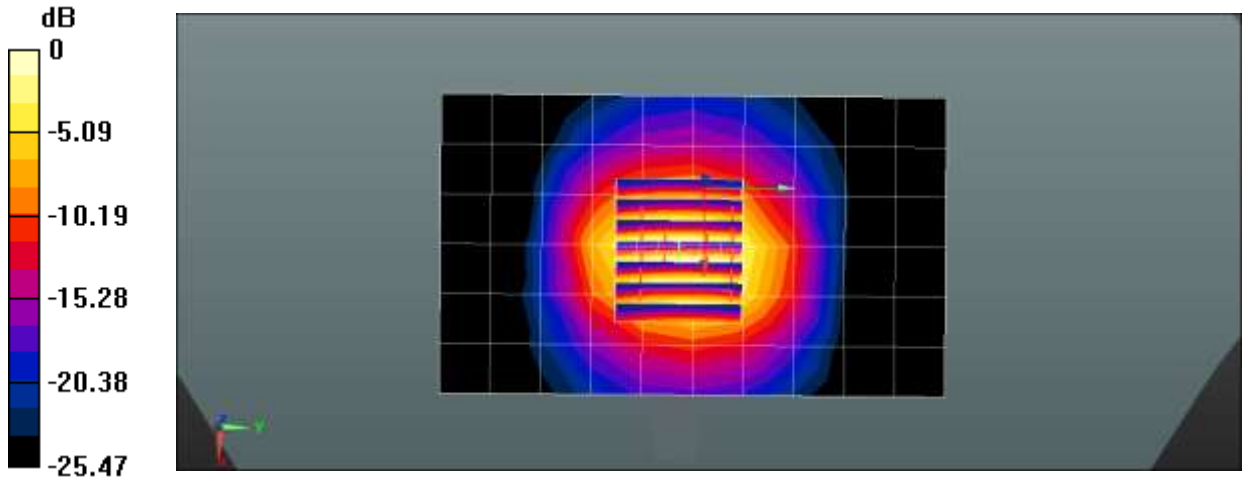
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.955 S/m; ε_r = 39.738; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.59, 4.59, 4.59) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2600MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.37 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.21 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 6.17 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 3.68 W/kg



0 dB = 3.68 W/kg = 5.66 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.4 ℃
Test Date:	10/29/2023
Band:	LTE TDD Band 38 - Antenna B Head

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

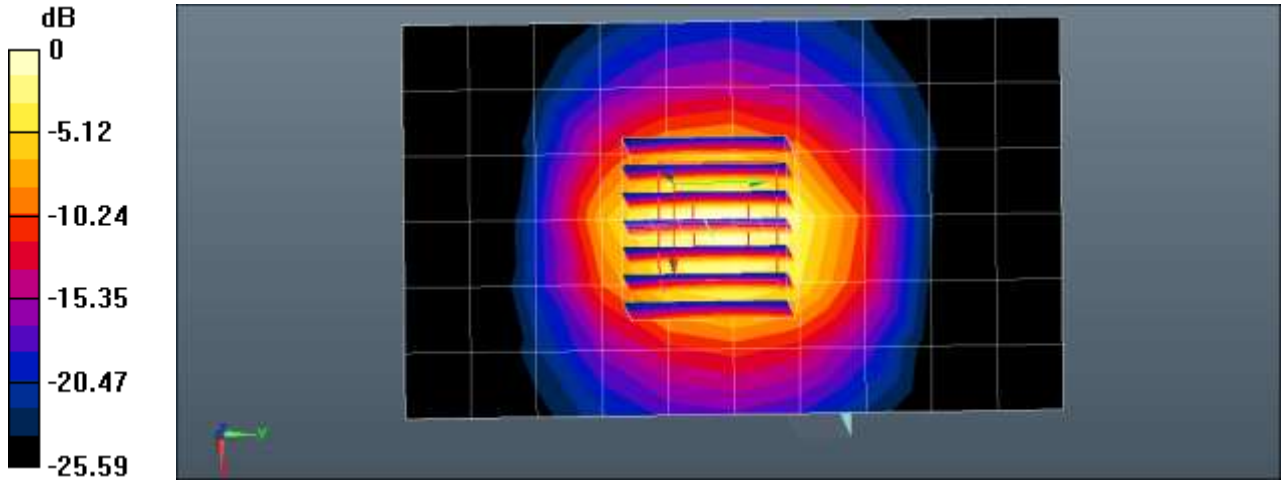
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.955 S/m; ε_r = 39.739; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.59, 4.59, 4.59) @ 2600 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

2600MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.37 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.32 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 6.13 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 3.66 W/kg



0 dB = 3.66 W/kg = 5.63 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/16/2023
Band:	LTE TDD Band 48 - Antenna F

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

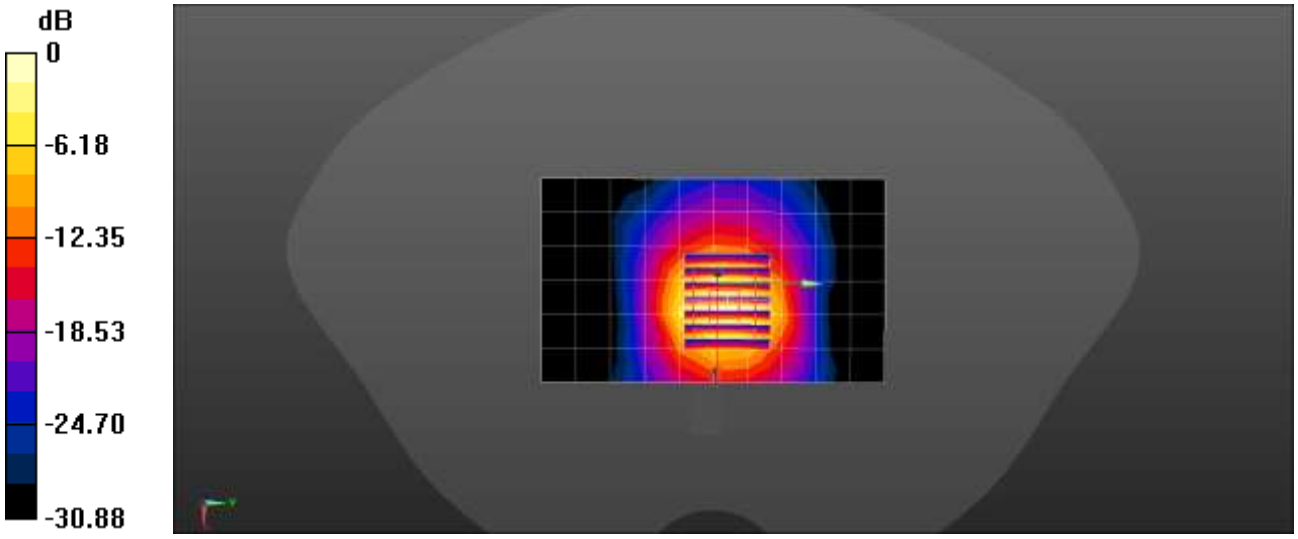
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.972 S/m; ε_r = 39.424; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.83, 7.27, 7.11) @ 3500 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.64 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 45.53 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 8.60 W/kg
SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.3 W/kg
Maximum value of SAR (measured) = 6.46 W/kg



0 dB = 6.46 W/kg = 8.10 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/16/2023
Band:	LTE TDD Band 48 - Antenna F

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

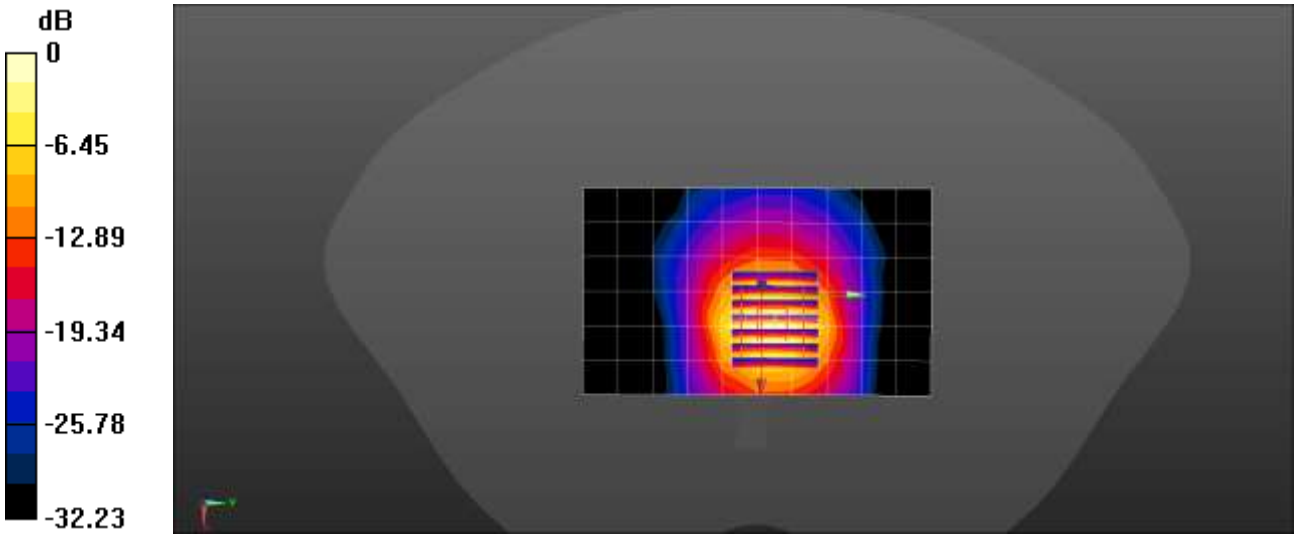
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.158 S/m; ε_r = 39.199; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(6.79, 7.25, 7.06) @ 3700 MHz; Calibrated: 2023-05-25
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn780; Calibrated: 2023-07-04
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.03 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 38.47 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 9.22 W/kg
SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 6.81 W/kg



0 dB = 6.81 W/kg = 8.33 dBW/kg

■ Verification Data (5 250 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/21/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

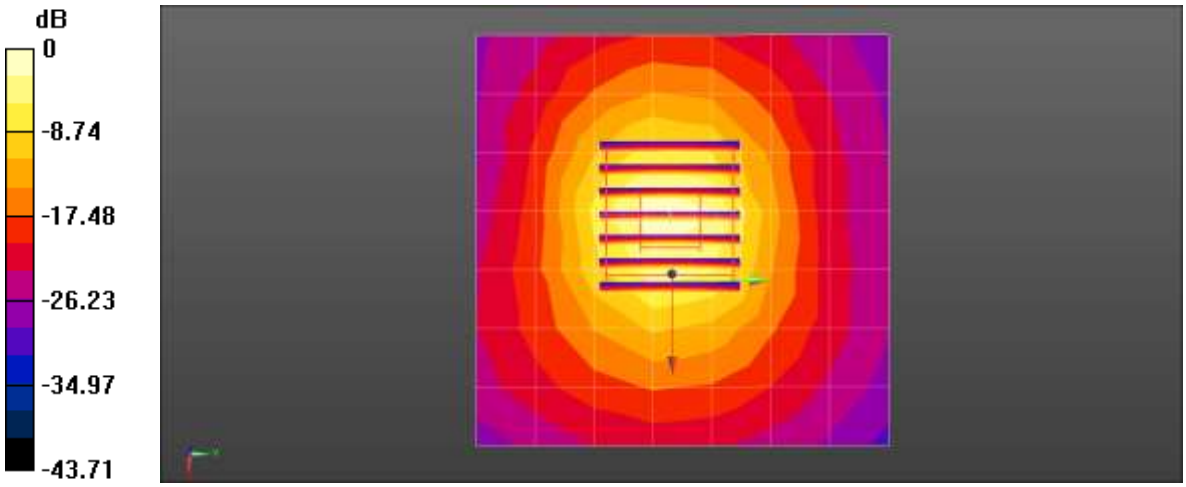
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.662 S/m; ε_r = 36.469; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(5.08, 4.78, 5.04) @ 5250 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5250MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.01 W/kg

5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 47.90 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 19.9 W/kg
SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 10.7 W/kg



0 dB = 10.7 W/kg = 10.29 dBW/kg

■ Verification Data (5 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.4 ℃
Test Date:	09/22/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

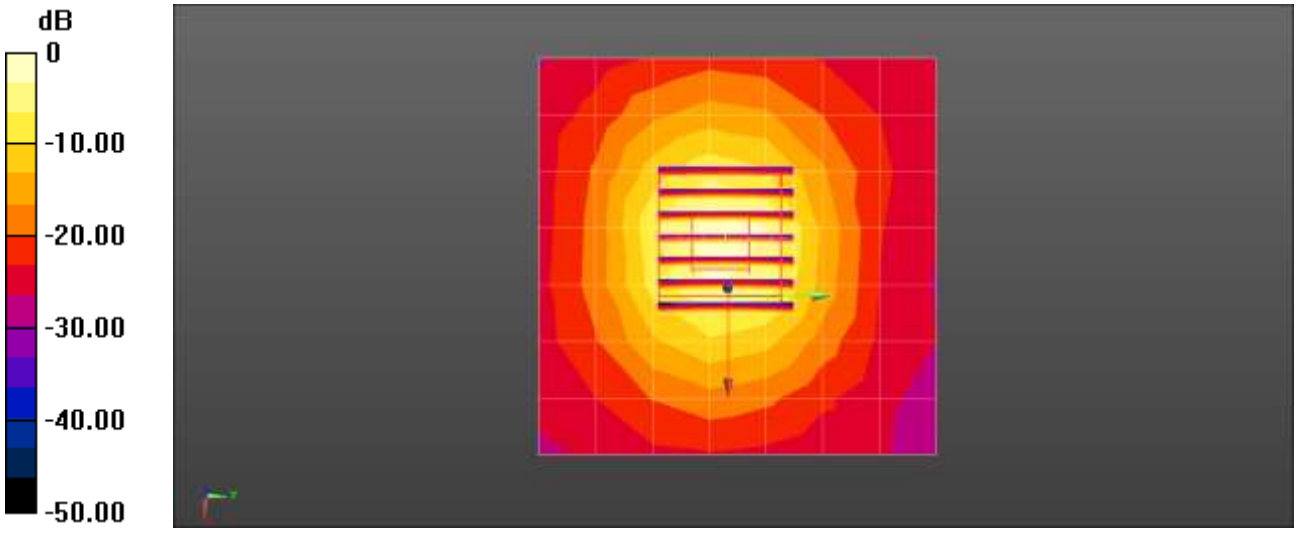
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.002 S/m; ε_r = 36.183; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.37, 4.3, 4.48) @ 5600 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.82 W/kg

5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.51 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 20.1 W/kg
SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

■ Verification Data (5 750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	09/24/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

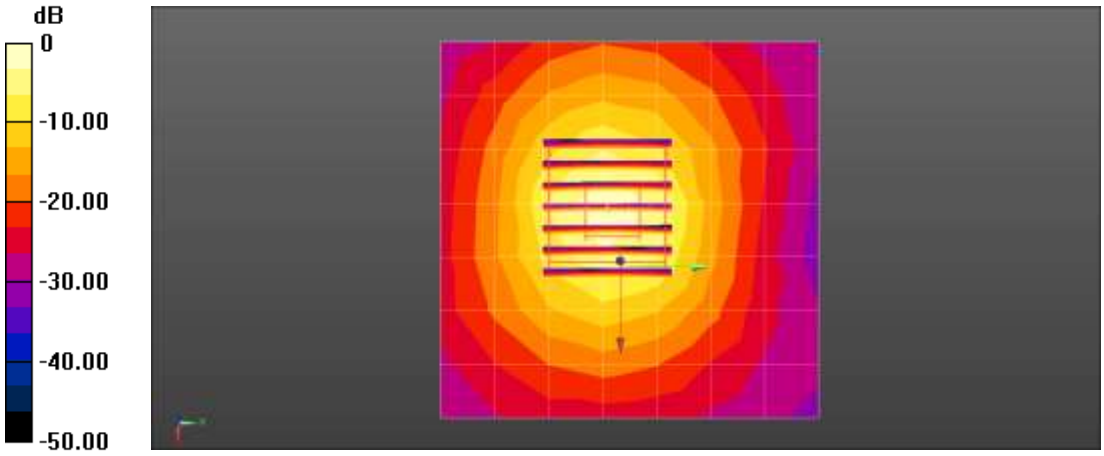
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.168 S/m; ε_r = 36.019; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.53, 4.29, 4.52) @ 5750 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5750MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.07 W/kg

5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.14 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 3.81 W/kg; SAR(10 g) = 1.07 W/kg
Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.1 W/kg = 10.04 dBW/kg

■ Verification Data (5 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.4 ℃
Test Date:	09/25/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

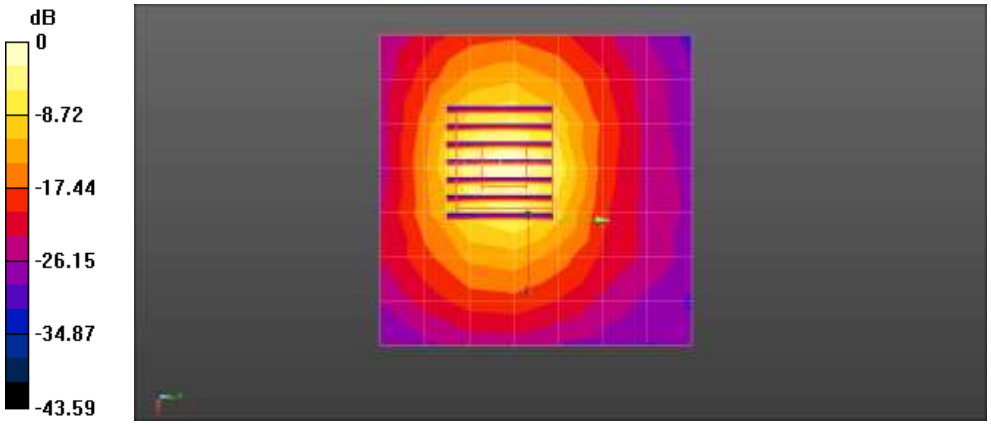
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.158 S/m; ε_r = 36.016; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.52, 4.22, 4.46) @ 5800 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5800MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.45 W/kg

5800MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 32.00 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 3.95 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 9.98 W/kg



0 dB = 9.98 W/kg = 9.99 dBW/kg

◆ 5G NR SUB 6

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	09/13/2023
Band:	NR FDD Band n12 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

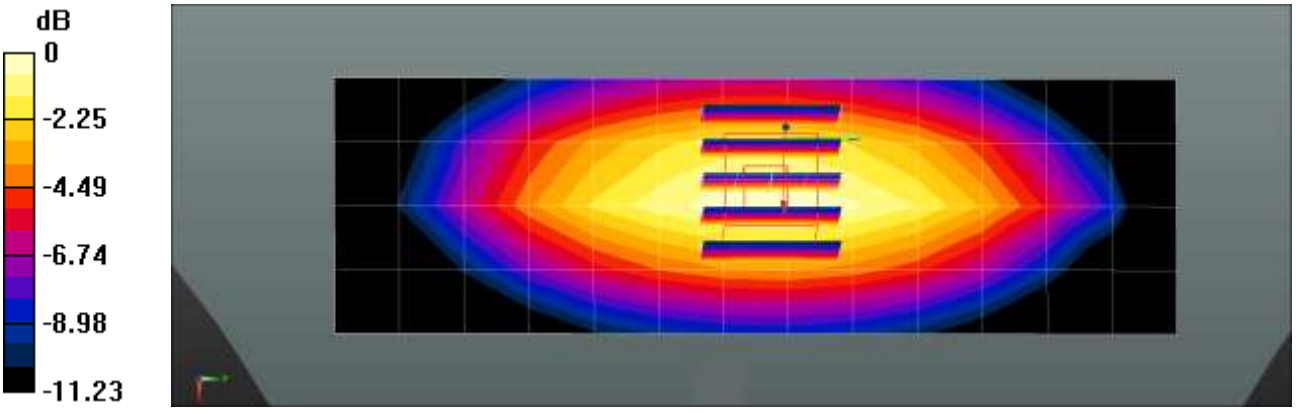
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.901 S/m; ε_r = 42.411; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.553 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.97 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.665 W/kg
SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.272 W/kg
Maximum value of SAR (measured) = 0.581 W/kg



0 dB = 0.581 W/kg = −2.36 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	09/21/2023
Band:	NR FDD Band n12 - Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

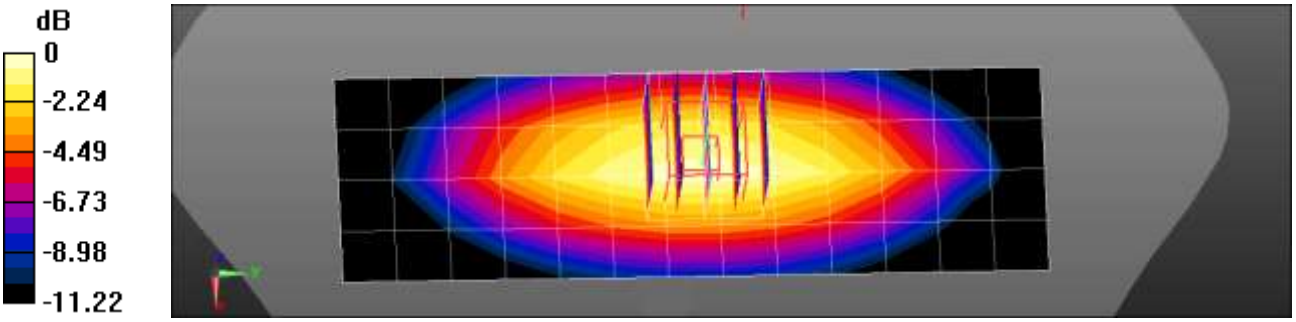
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.912 S/m; ε_r = 42.247; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.564 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.00 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.676 W/kg
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.591 W/kg



0 dB = 0.591 W/kg = -2.28 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.3 ℃
Test Date:	09/15/2023
Band:	NR FDD Band n71 - Antenna A

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

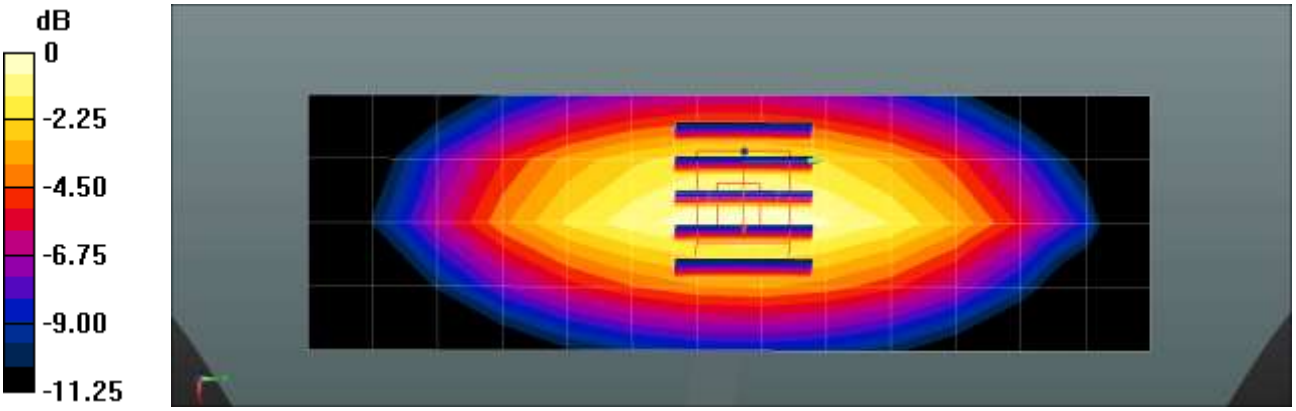
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.907 S/m; ε_r = 41.713; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.559 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.96 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.674 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.274 W/kg
Maximum value of SAR (measured) = 0.588 W/kg



0 dB = 0.588 W/kg = −2.31 dBW/kg

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.7 ℃
Test Date:	09/20/2023
Band:	NR FDD Band n12 - Antenna E

DUT: Dipole 750 MHz; Type: D750V2; Serial: D750V2 - SN:1014

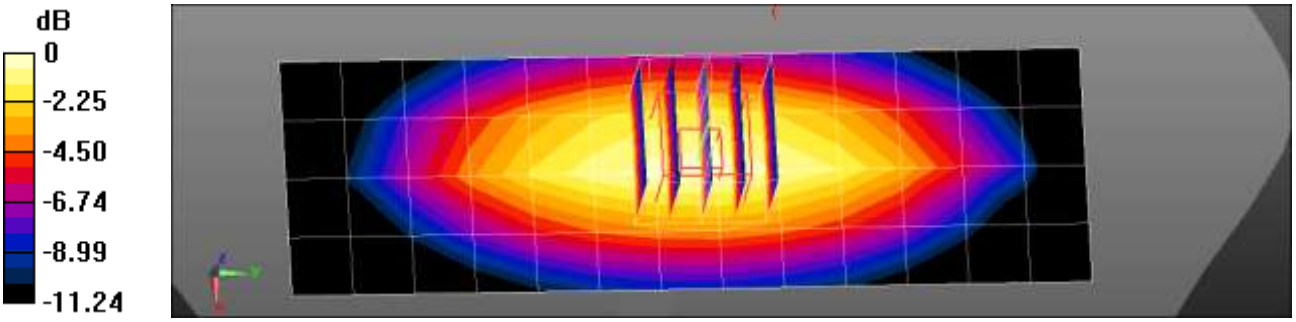
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.912 S/m; ε_r = 41.835; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.14, 10.14, 10.14) @ 750 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

750MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.562 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.01 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.675 W/kg
SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.590 W/kg



0 dB = 0.590 W/kg = -2.29 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	09/14/2023
Band:	NR FDD Band n26 - Antenna A

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

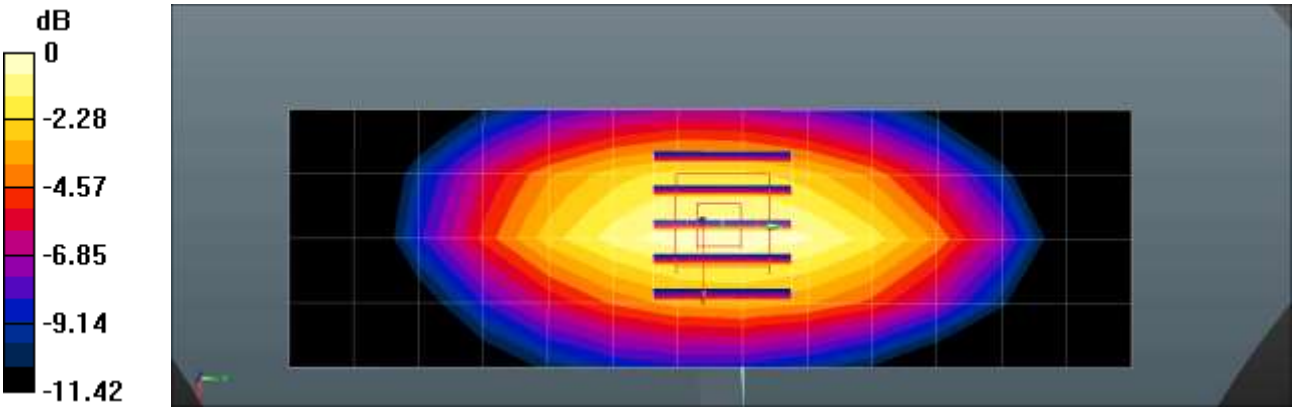
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.923 S/m; ε_r = 42.321; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.1, 10.1, 10.1) @ 835 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

835MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.664 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.96 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.779 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.683 W/kg



0 dB = 0.683 W/kg = −1.66 dBW/kg

■ Verification Data (835 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	09/22/2023
Band:	NR FDD Band n26 - Antenna E

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d165

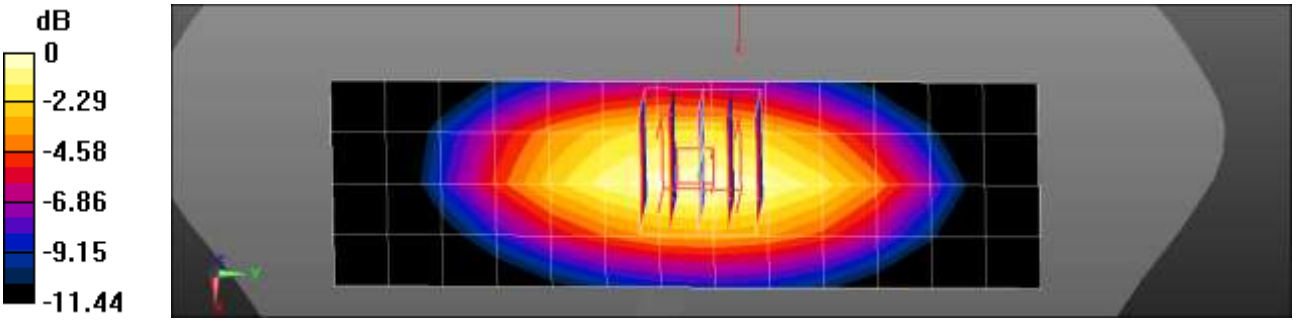
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.922 S/m; ε_r = 41.909; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(10.1, 10.1, 10.1) @ 835 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

835MHz Head Verification/Area Scan (5x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.662 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.82 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.779 W/kg
SAR(1 g) = 0.500 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

■ Verification Data (1 640 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	09/14/2023
Band:	NR FDD Band n70 - Antenna A

DUT: D1640V2 - SN345; Type: D1640V2; Serial: SN345

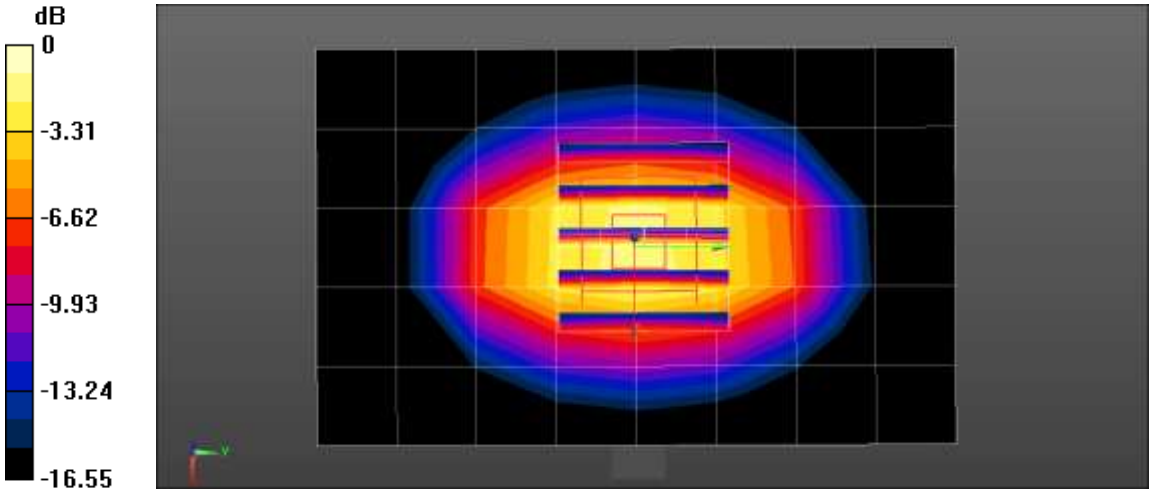
Communication System: UID 0, CW (0); Frequency: 1640 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1640 MHz; σ = 1.248 S/m; ε_r = 41.689; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(8.7, 8.7, 8.7) @ 1640 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1640MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.72 W/kg

1640MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 45.82 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.97 W/kg
SAR(1 g) = 1.59 W/kg; SAR(10 g) = 0.855 W/kg
Maximum value of SAR (measured) = 2.47 W/kg



0 dB = 2.47 W/kg = 3.93 dBW/kg

■ Verification Data (1 640 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/15/2023
Band:	NR FDD Band n70 - Antenna F

DUT: D1640V2 - SN345; Type: D1640V2; Serial: SN345

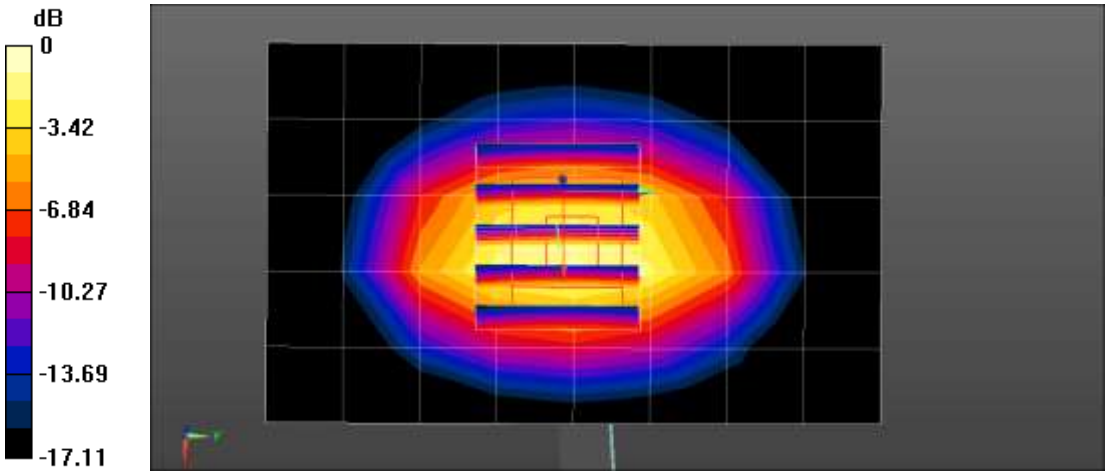
Communication System: UID 0, CW (0); Frequency: 1640 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1640 MHz; σ = 1.246 S/m; ε_r = 41.687; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3768; ConvF(8.7, 8.7, 8.7) @ 1640 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1640MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.14 W/kg

1640MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 45.19 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.06 W/kg
SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.875 W/kg
Maximum value of SAR (measured) = 2.51 W/kg



0 dB = 2.51 W/kg = 4.00 dBW/kg

■ Verification Data (1 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	09/13/2023
Band:	NR FDD Band n66 - Antenna A

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

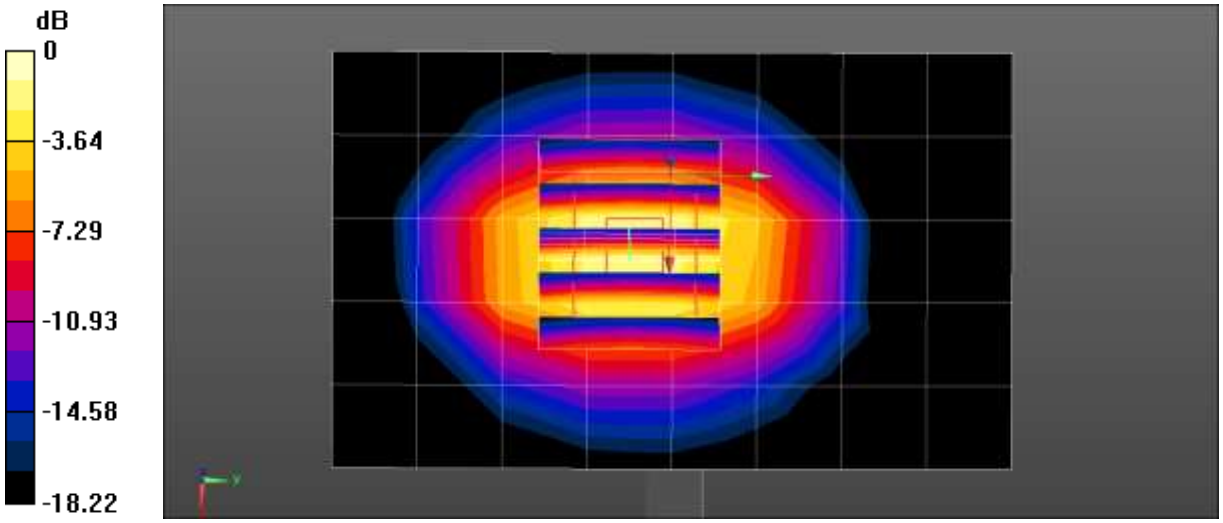
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.403 S/m; ε_r = 39.206; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.93, 8.41, 8.5) @ 1800 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.95 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.00 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 3.50 W/kg
SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.969 W/kg
Maximum value of SAR (measured) = 2.92 W/kg



0 dB = 2.92 W/kg = 4.65 dBW/kg

■ Verification Data (1 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	10/04/2023
Band:	NR FDD Band n66 - Antenna F

DUT: Dipole 1800 MHz; Type: D1800V2; Serial: D1800V2 - SN:2d015

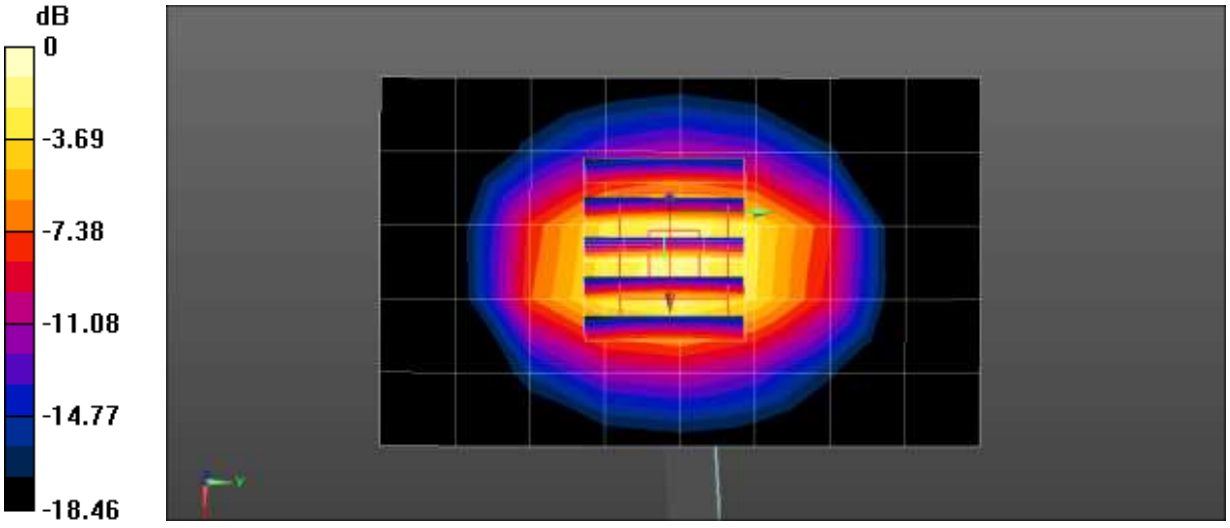
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.422 S/m; ε_r = 39.212; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.93, 8.41, 8.5) @ 1800 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.06 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.16 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.61 W/kg
SAR(1 g) = 1.91 W/kg; SAR(10 g) = 0.993 W/kg
Maximum value of SAR (measured) = 3.00 W/kg



0 dB = 3.00 W/kg = 4.77 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	09/12/2023
Band:	NR FDD Band n25 - Antenna A

DUT: D1900V2 - SN5d061; Type: D1900V2; Serial: SN5d061

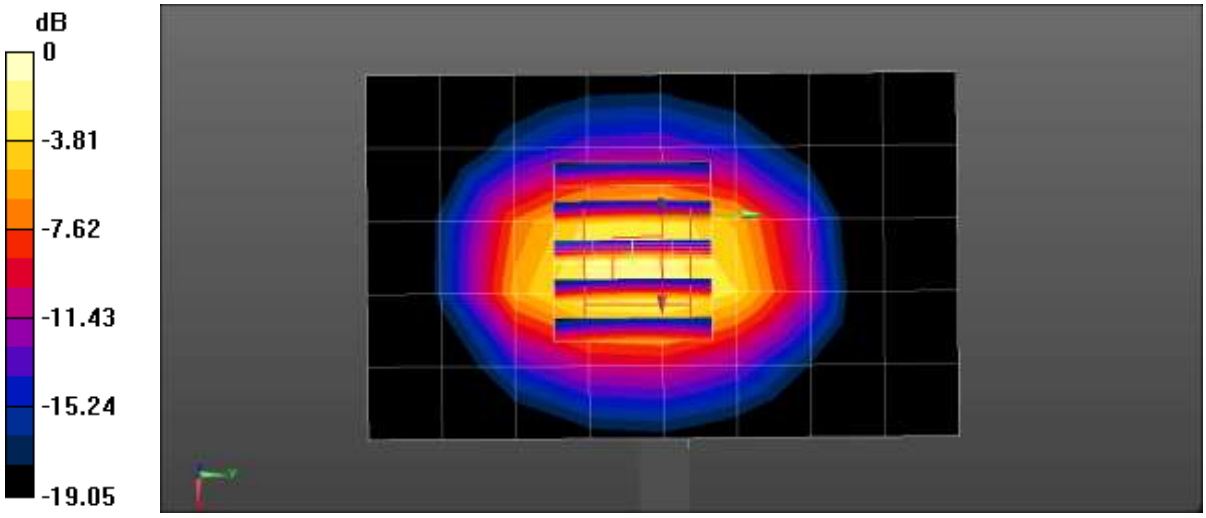
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.414 S/m; ε_r = 38.56; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.41, 7.93, 8.06) @ 1900 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.37 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.98 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 3.75 W/kg
SAR(1 g) = 1.96 W/kg; SAR(10 g) = 1 W/kg
Maximum value of SAR (measured) = 3.12 W/kg



0 dB = 3.12 W/kg = 4.94 dBW/kg

■ Verification Data (1 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.7 ℃
Test Date:	09/16/2023
Band:	NR FDD Band n25 - Antenna F

DUT: D1900V2 - SN5d061; Type: D1900V2; Serial: SN5d061

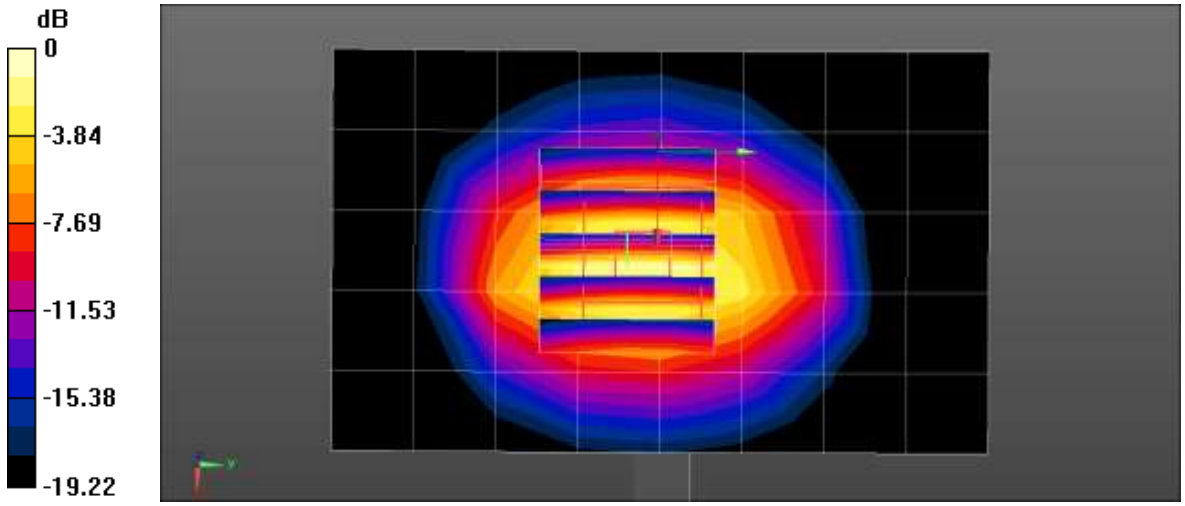
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.41 S/m; ε_r = 39.176; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.41, 7.93, 8.06) @ 1900 MHz; Calibrated: 2023-07-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2023-04-25
- Phantom: Twin-SAM V4.0 (20deg probe tilt); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

1900MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.67 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.85 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.05 W/kg
Maximum value of SAR (measured) = 3.16 W/kg



0 dB = 3.16 W/kg = 5.00 dBW/kg

■ Verification Data (2 300 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/18/2023
Band:	NR FDD Band n30 - Antenna A

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1010

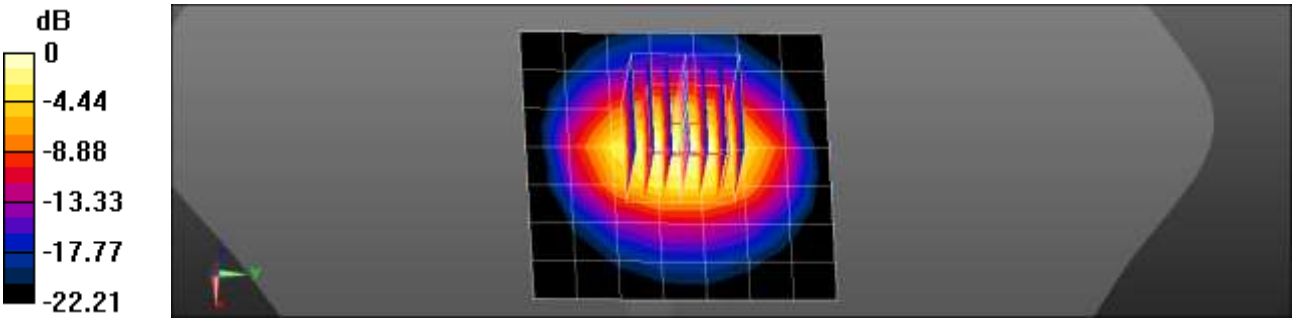
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.718 S/m; ε_r = 39.298; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(8.37, 8.37, 8.37) @ 2300 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2300MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.87 W/kg

2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.65 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 5.37 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 4.28 W/kg



0 dB = 4.28 W/kg = 6.31 dBW/kg

■ Verification Data (2 300 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.1 ℃
Test Date:	09/19/2023
Band:	NR FDD Band n30 - Antenna F

DUT: Dipole 2300 MHz; Type: D2300V2; Serial: D2300V2 - SN:1010

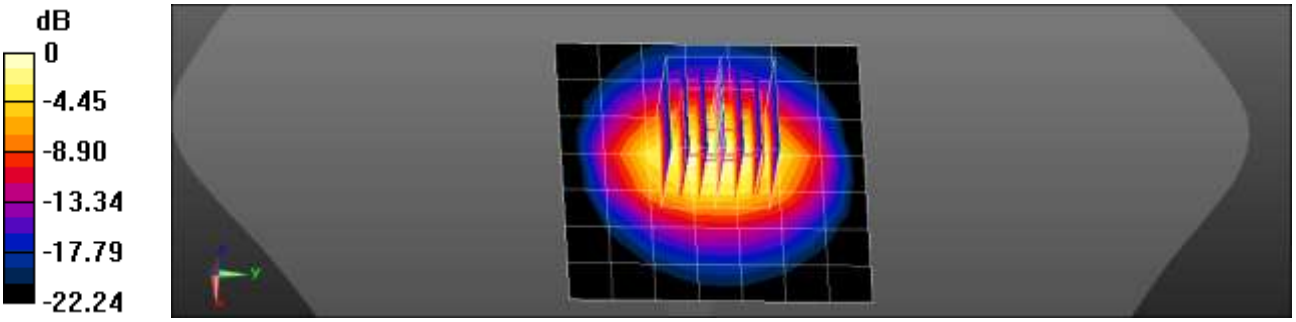
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.719 S/m; ε_r = 39.289; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(8.37, 8.37, 8.37) @ 2300 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7483)

2300MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.88 W/kg

2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.50 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 5.45 W/kg
SAR(1 g) = 2.54 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 4.34 W/kg



0 dB = 4.34 W/kg = 6.37 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	09/13/2023
Band:	NR FDD Band n7 - Antenna B

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

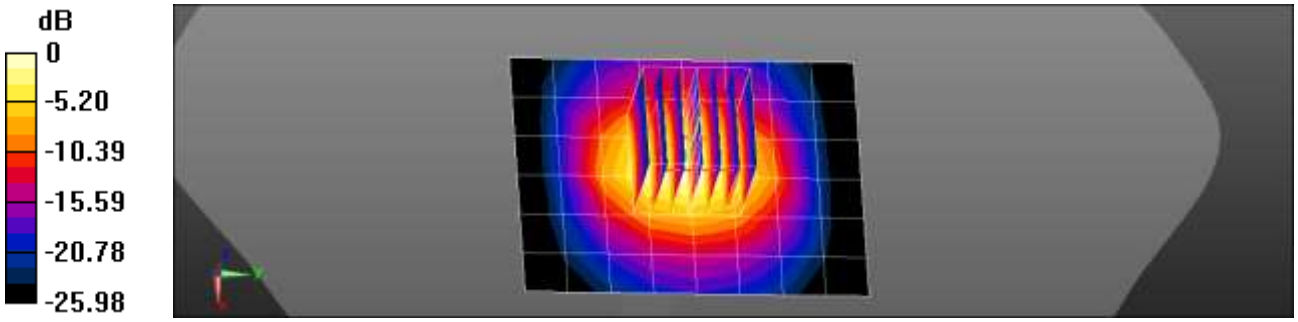
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.002 S/m; ε_r = 39.065; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.57, 7.57, 7.57) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2600MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.79 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.66 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 6.87 W/kg
SAR(1 g) = 2.86 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 5.21 W/kg



0 dB = 5.21 W/kg = 7.17 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/14/2023
Band:	NR FDD Band n7 - Antenna F

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

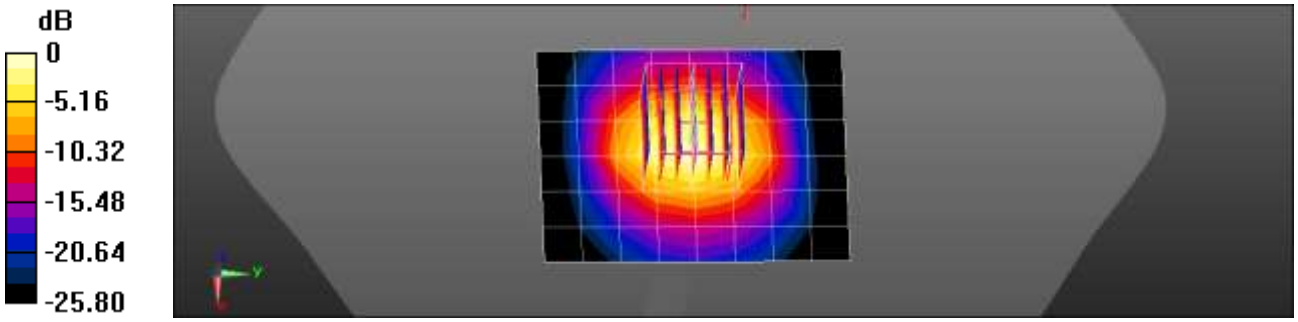
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.03 S/m; ε_r = 38.068; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(7.57, 7.57, 7.57) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2600MHz Head Verification/Area Scan (7x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.86 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.26 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 6.93 W/kg
SAR(1 g) = 2.89 W/kg; SAR(10 g) = 1.26 W/kg
Maximum value of SAR (measured) = 5.25 W/kg



0 dB = 5.25 W/kg = 7.20 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/15/2023
Band:	NR TDD Band n41 - Antenna B

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

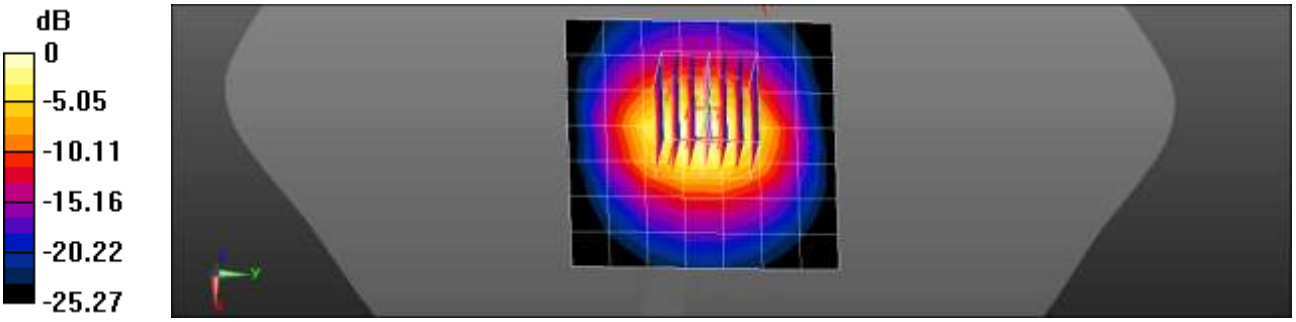
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.018 S/m; ε_r = 39.35; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.28 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.65 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 6.50 W/kg
SAR(1 g) = 2.83 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 5.06 W/kg



0 dB = 5.06 W/kg = 7.04 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	09/20/2023
Band:	NR TDD Band n41 - Antenna F

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

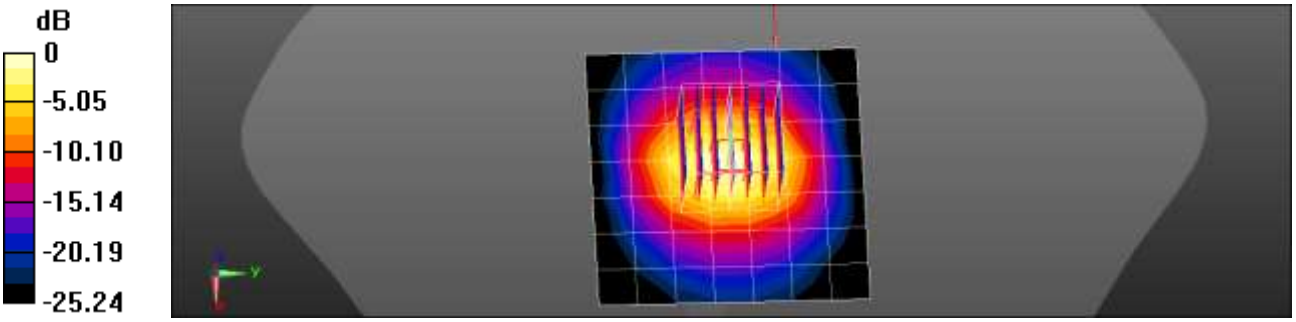
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.003 S/m; ε_r = 39.049; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.13 (7474)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.24 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.86 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 6.48 W/kg
SAR(1 g) = 2.81 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 5.04 W/kg



0 dB = 5.04 W/kg = 7.02 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.1 ℃
Test Date:	10/13/2023
Band:	NR TDD Band n41 - Antenna B(SRS)

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

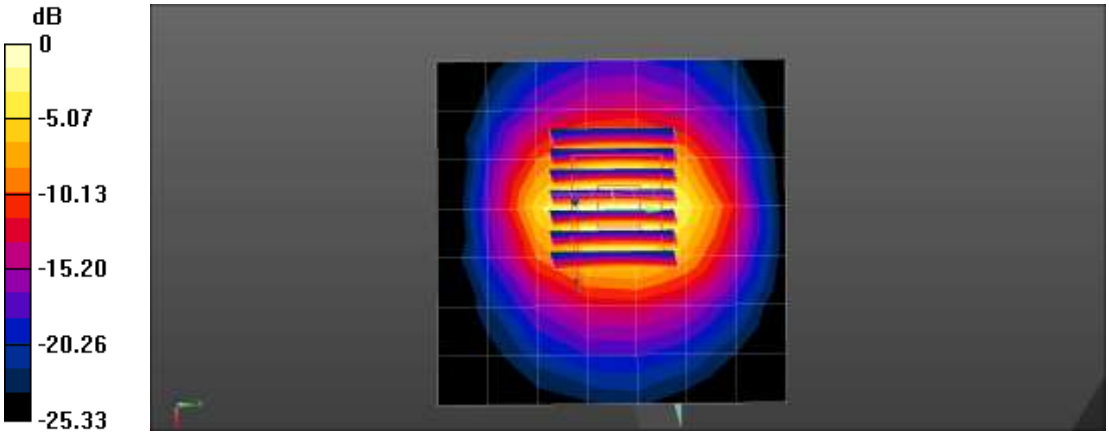
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2.031 S/m; ε_r = 39.491; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.67 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 43.82 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 6.56 W/kg
SAR(1 g) = 2.75 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 5.00 W/kg



0 dB = 5.00 W/kg = 6.99 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.1 ℃
Test Date:	10/13/2023
Band:	NR TDD Band n41 - Antenna F(SRS)

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

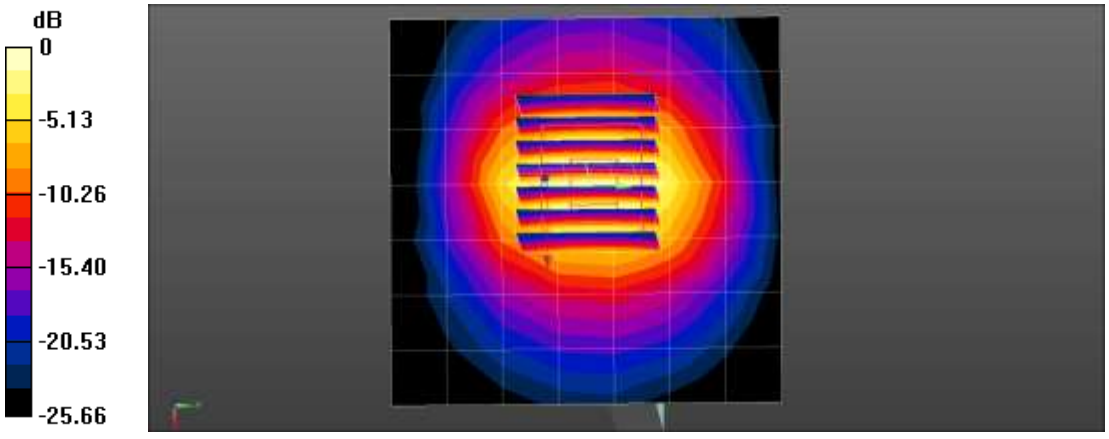
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 2 S/m; ε_r = 39.215; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.64 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 44.49 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 6.48 W/kg
SAR(1 g) = 2.71 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 4.92 W/kg



0 dB = 4.92 W/kg = 6.92 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0 ℃
Test Date:	10/12/2023
Band:	NR TDD Band n41 - Antenna D(SRS)

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

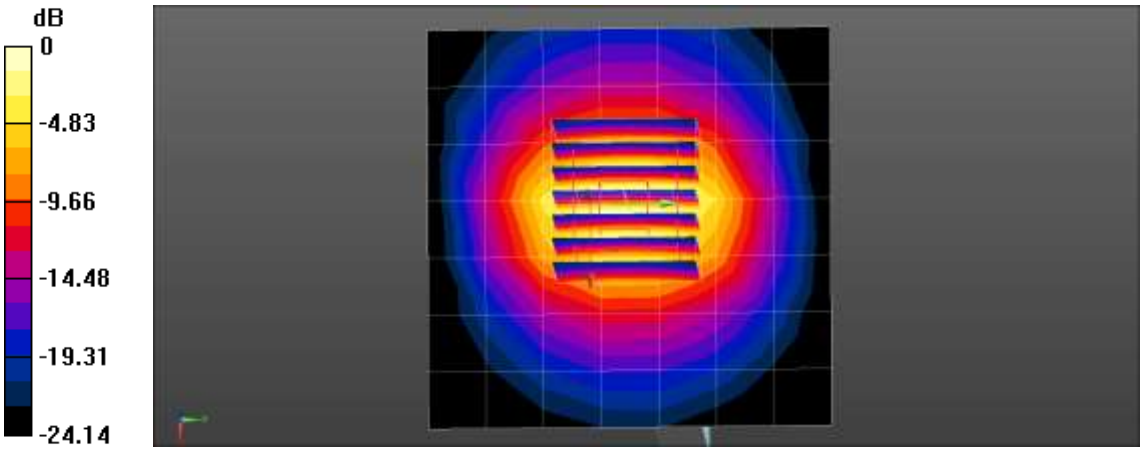
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.987 S/m; ε_r = 39.464; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.28 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.68 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 6.45 W/kg
SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 4.93 W/kg



0 dB = 4.93 W/kg = 6.93 dBW/kg

■ Verification Data (2 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0 ℃
Test Date:	10/12/2023
Band:	NR TDD Band n41 - Antenna E(SRS)

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN:1106

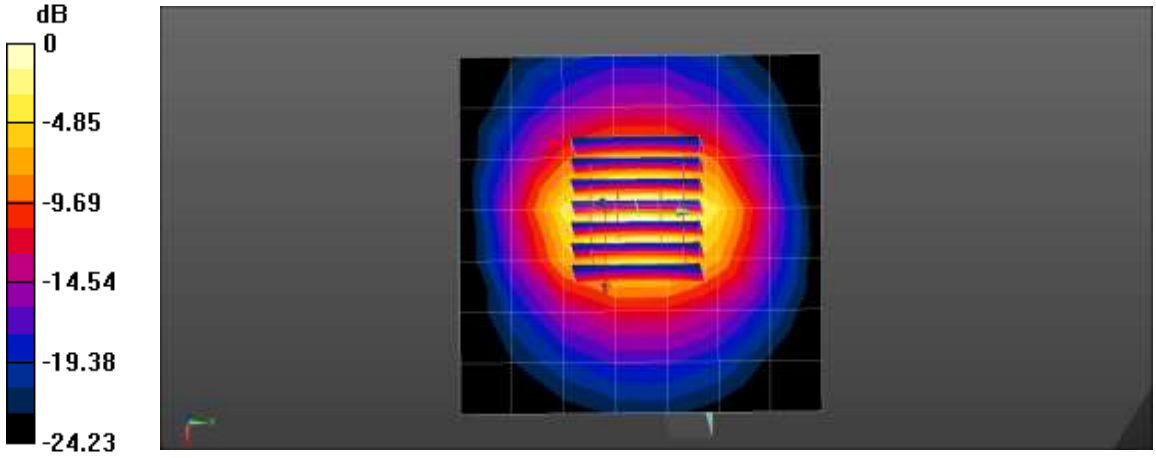
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.973 S/m; ε_r = 39.87; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7679; ConvF(7.83, 7.83, 7.83) @ 2600 MHz; Calibrated: 2023-08-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1225; Calibrated: 2023-03-06
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

2600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.20 W/kg

2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.81 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 6.35 W/kg
SAR(1 g) = 2.7 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 4.85 W/kg



0 dB = 4.85 W/kg = 6.86 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	09/19/2023
Band:	NR TDD Band n48- Antenna F

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

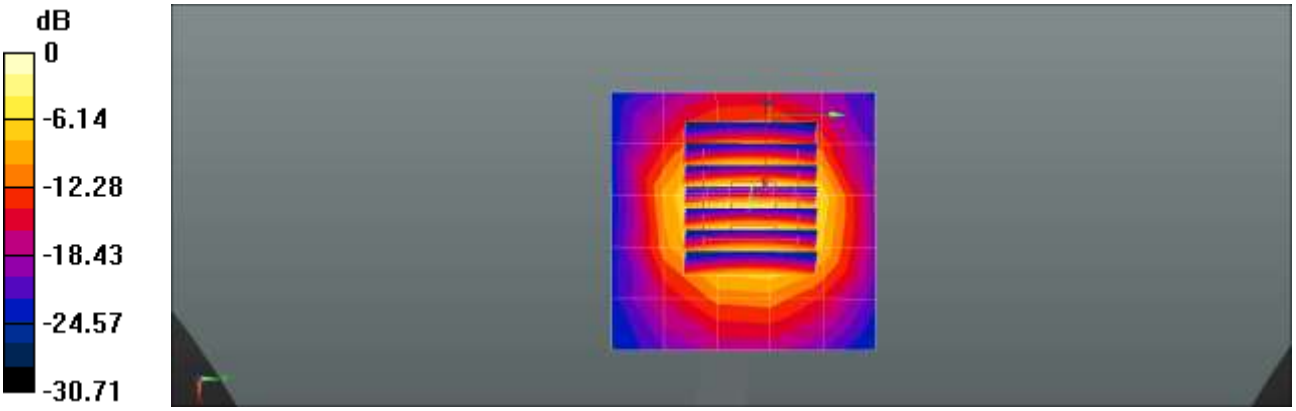
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.939 S/m; ε_r = 38.777; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.18 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.68 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 8.81 W/kg
SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.33 W/kg
Maximum value of SAR (measured) = 6.65 W/kg



0 dB = 6.65 W/kg = 8.23 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	09/25/2023
Band:	NR TDD Band n48- Antenna C(SRS)

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

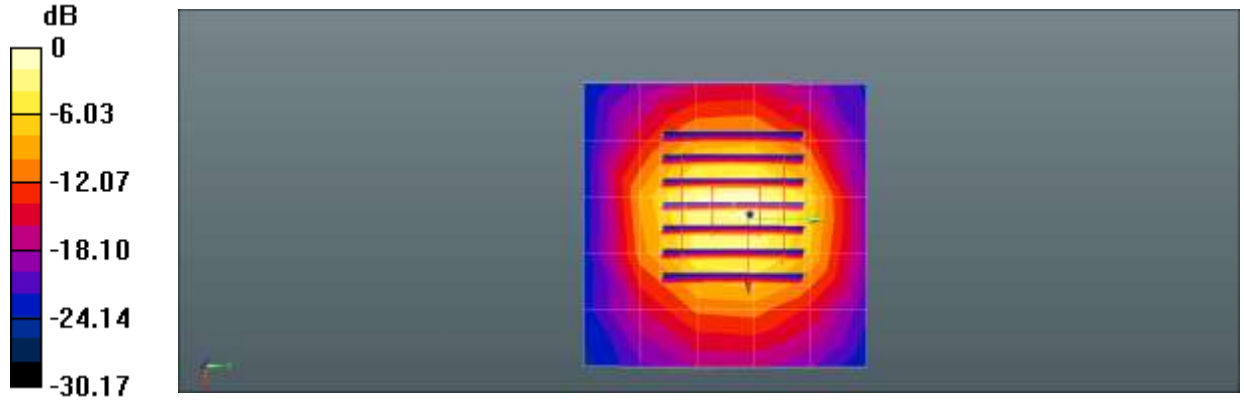
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.939 S/m; ε_r = 38.782; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.20 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.78 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 8.84 W/kg
SAR(1 g) = 3.48 W/kg; SAR(10 g) = 1.34 W/kg
Maximum value of SAR (measured) = 6.68 W/kg



0 dB = 6.68 W/kg = 8.25 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	09/26/2023
Band:	NR TDD Band n48- Antenna I(SRS)

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

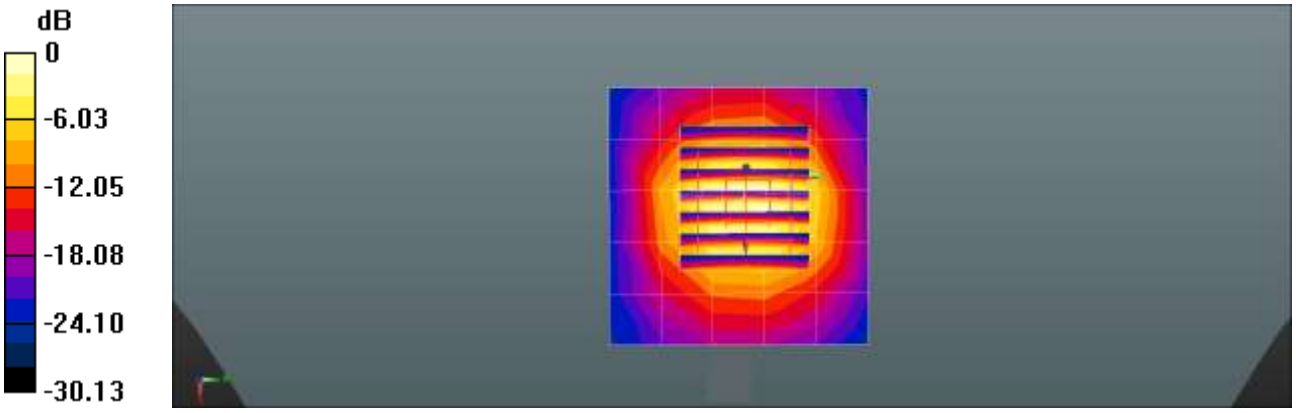
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.94 S/m; ε_r = 38.78; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.20 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.62 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 8.83 W/kg
SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.34 W/kg
Maximum value of SAR (measured) = 6.69 W/kg



0 dB = 6.69 W/kg = 8.25 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/27/2023
Band:	NR TDD Band n48- Antenna D(SRS)

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

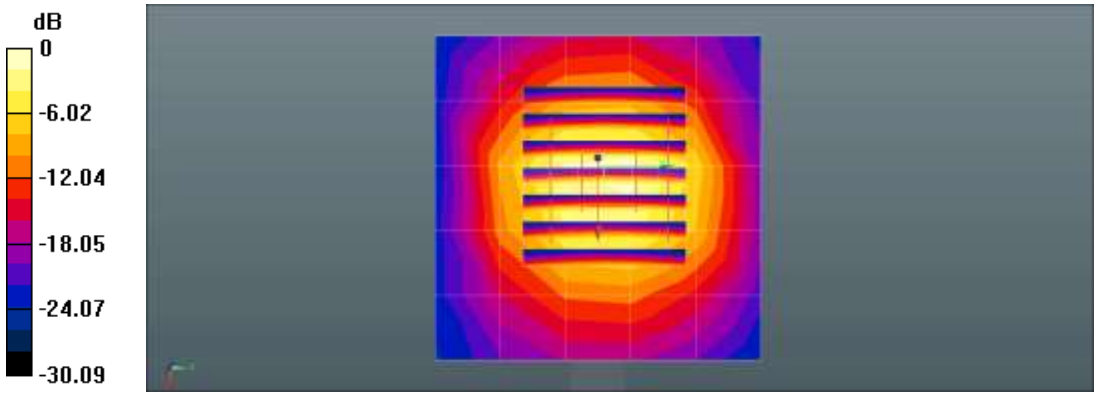
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.953 S/m; ε_r = 38.617; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.22 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.78 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 8.85 W/kg
SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.34 W/kg
Maximum value of SAR (measured) = 6.68 W/kg



0 dB = 6.68 W/kg = 8.25 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	10/04/2023
Band:	NR TDD Band n77 Head, n78 Body - Antenna F

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

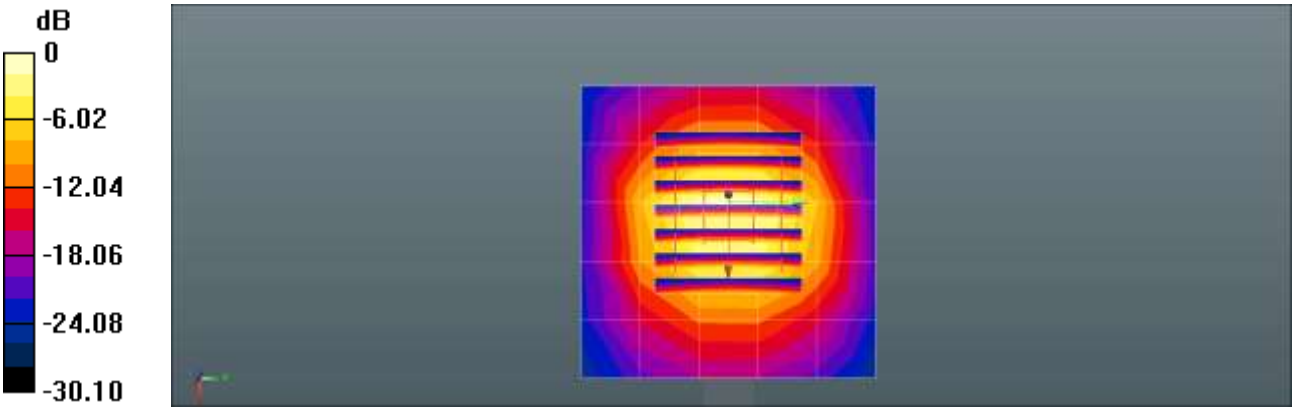
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.972 S/m; ε_r = 38.921; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.98 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 49.42 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 9.10 W/kg
SAR(1 g) = 3.55 W/kg; SAR(10 g) = 1.36 W/kg
Maximum value of SAR (measured) = 6.87 W/kg



0 dB = 6.87 W/kg = 8.37 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	10/13/2023
Band:	NR TDD Band n77 Body

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

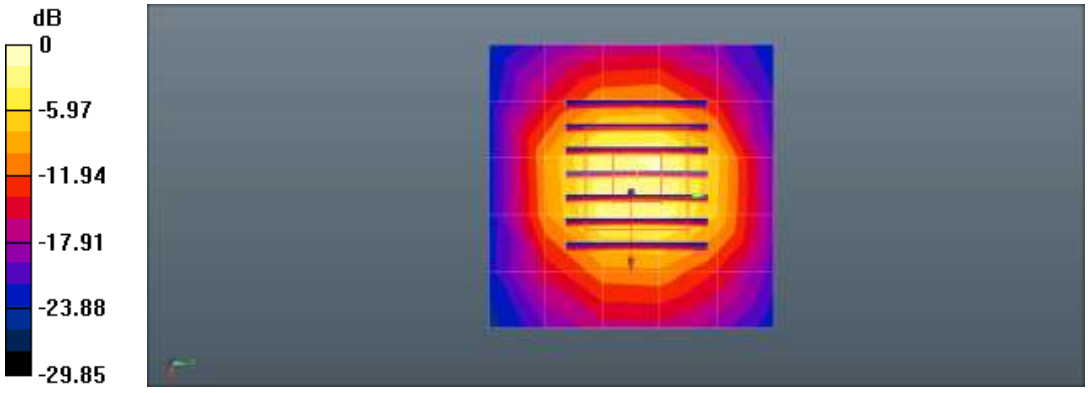
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.933 S/m; ε_r = 38.582; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.08 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.97 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 8.09 W/kg
SAR(1 g) = 3.2 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 6.12 W/kg



0 dB = 6.12 W/kg = 7.87 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	10/11/2023
Band:	NR TDD Band n77 Antenna C(SRS)

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

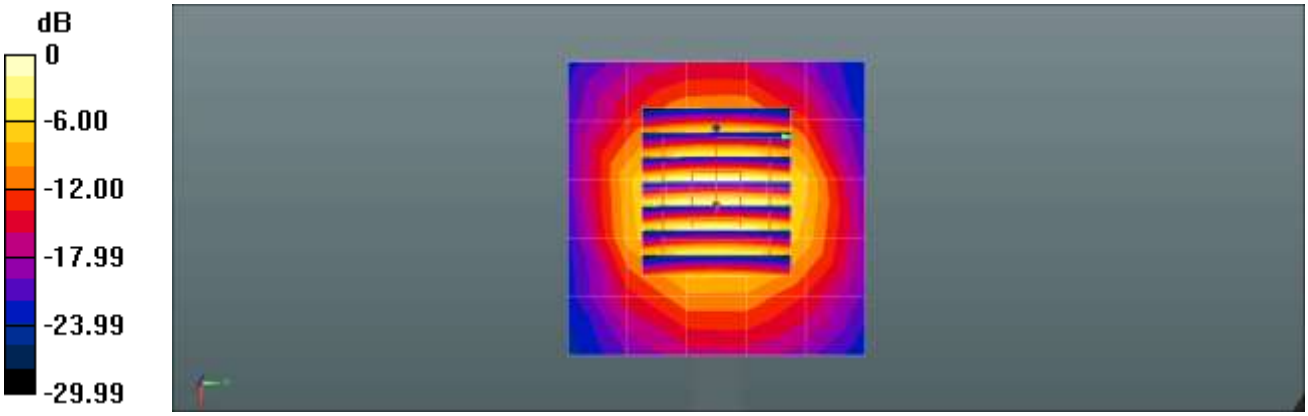
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.972 S/m; ε_r = 38.917; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.37 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.12 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 8.14 W/kg
SAR(1 g) = 3.17 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 6.12 W/kg



0 dB = 6.12 W/kg = 7.87 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.3 ℃
Test Date:	10/12/2023
Band:	NR TDD Band n77 Antenna I(SRS)

DUT: Dipole 3500 MHz; Type: D3500V2; Serial: D3500V2 - SN:1040

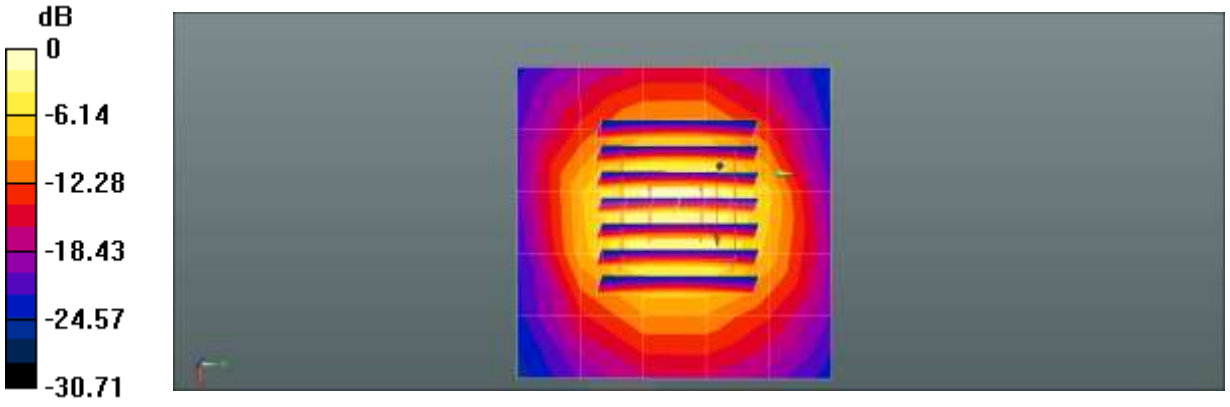
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.974 S/m; ε_r = 38.923; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.54, 7.54, 7.54) @ 3500 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3500MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.36 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.05 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 8.13 W/kg
SAR(1 g) = 3.18 W/kg; SAR(10 g) = 1.24 W/kg
Maximum value of SAR (measured) = 6.11 W/kg



0 dB = 6.11 W/kg = 7.86 dBW/kg

■ Verification Data (3 500 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.3 ℃
Test Date:	10/15/2023
Band:	NR TDD Band n77 Antenna D(SRS)

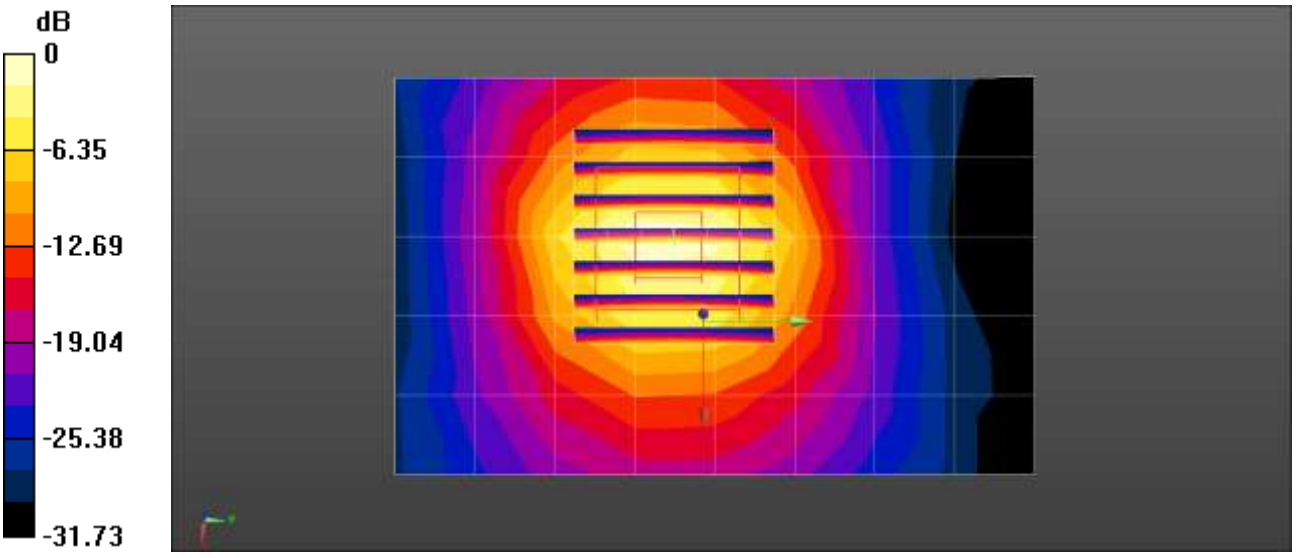
Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3500 MHz; σ = 2.974 S/m; ε_r = 38.922; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(6.37, 6.05, 6.28) @ 3500 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

3500MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.51 W/kg

3500MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 40.60 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 8.87 W/kg
SAR(1 g) = 3.21 W/kg; SAR(10 g) = 1.19 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 42.7%
Maximum value of SAR (measured) = 6.43 W/kg



0 dB = 6.43 W/kg = 8.08 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	09/19/2023
Band:	NR TDD Band n48 - Antenna F

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

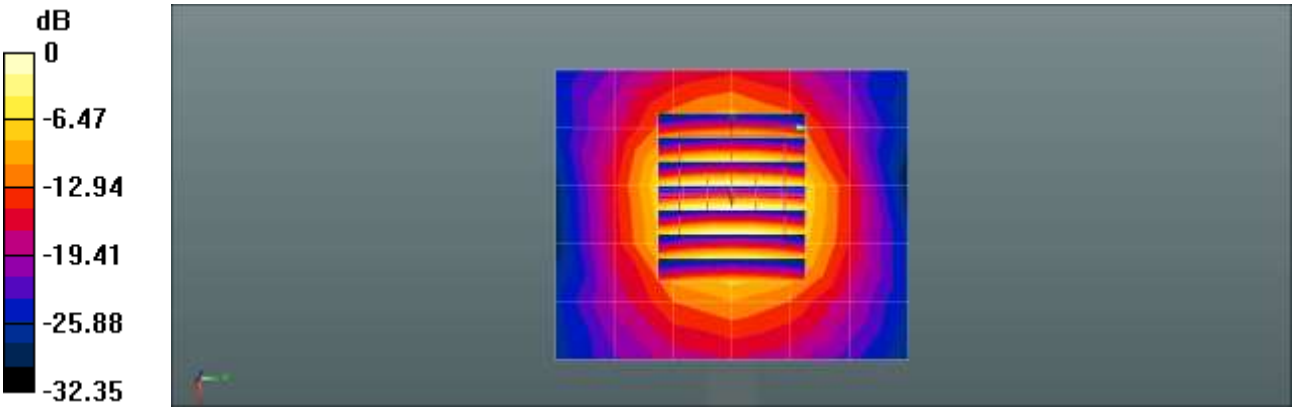
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.115 S/m; ε_r = 38.553; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.82 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.38 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 9.36 W/kg
SAR(1 g) = 3.45 W/kg; SAR(10 g) = 1.28 W/kg
Maximum value of SAR (measured) = 6.83 W/kg



0 dB = 6.83 W/kg = 8.34 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	09/25/2023
Band:	NR TDD Band n48 - Antenna C(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

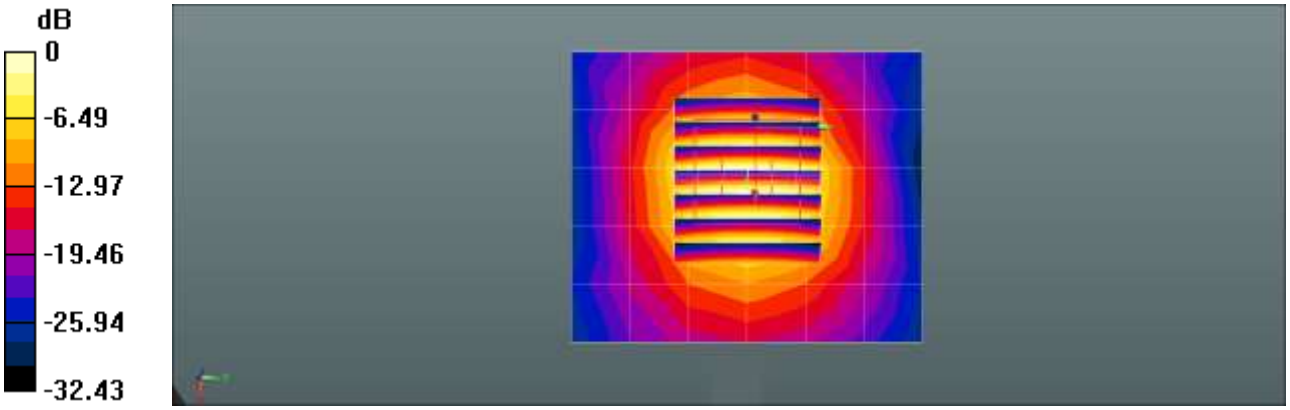
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.114 S/m; ε_r = 38.556; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.85 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.36 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 9.42 W/kg
SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 6.85 W/kg



0 dB = 6.85 W/kg = 8.36 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	09/26/2023
Band:	NR TDD Band n48 - Antenna I(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

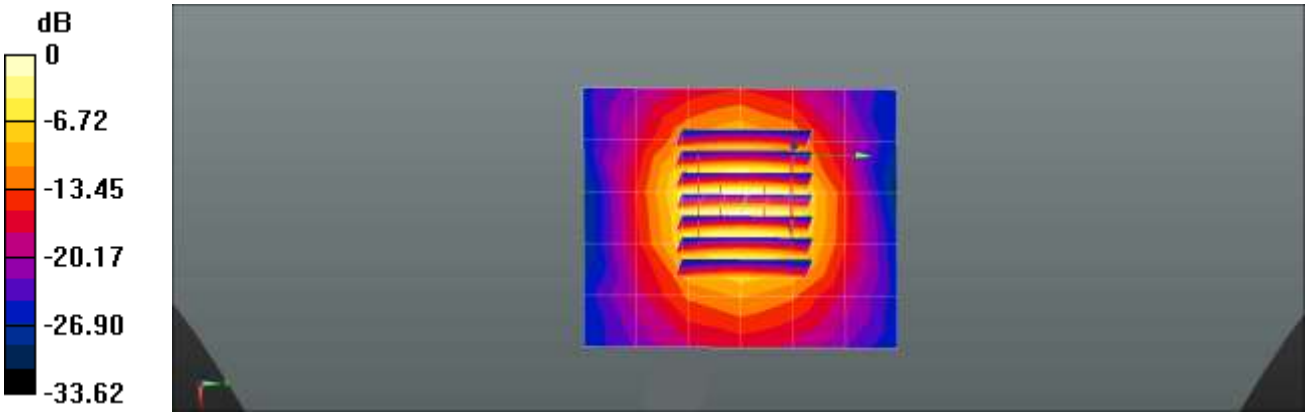
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.115 S/m; ε_r = 38.546; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.83 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.58 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 9.39 W/kg
SAR(1 g) = 3.46 W/kg; SAR(10 g) = 1.29 W/kg
Maximum value of SAR (measured) = 6.83 W/kg



0 dB = 6.83 W/kg = 8.34 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	09/27/2023
Band:	NR TDD Band n48 - Antenna D(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

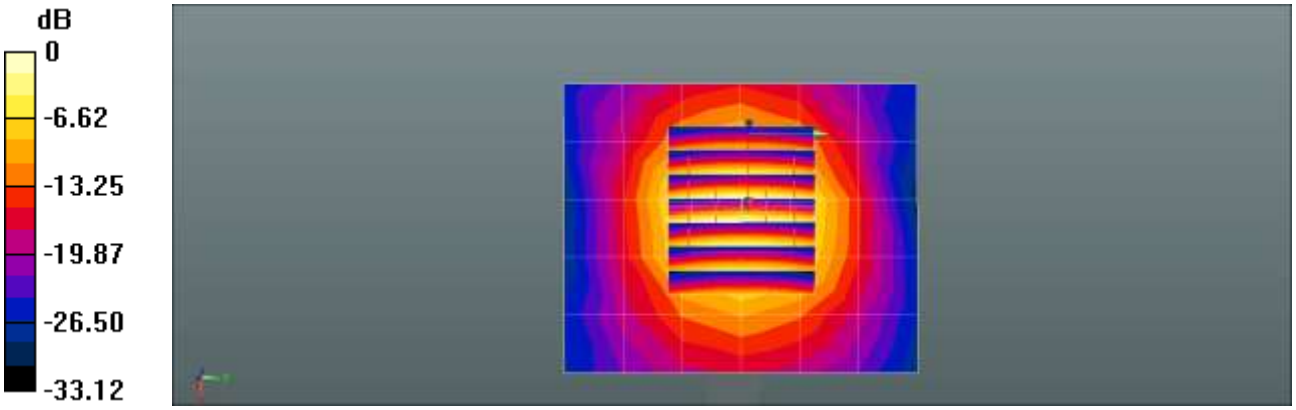
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.138 S/m; ε_r = 38.395; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.89 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.42 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 9.46 W/kg
SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.3 W/kg
Maximum value of SAR (measured) = 6.87 W/kg



0 dB = 6.87 W/kg = 8.37 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	10/04/2023
Band:	NR TDD Band n77 Head/n78 Body - Antenna F

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

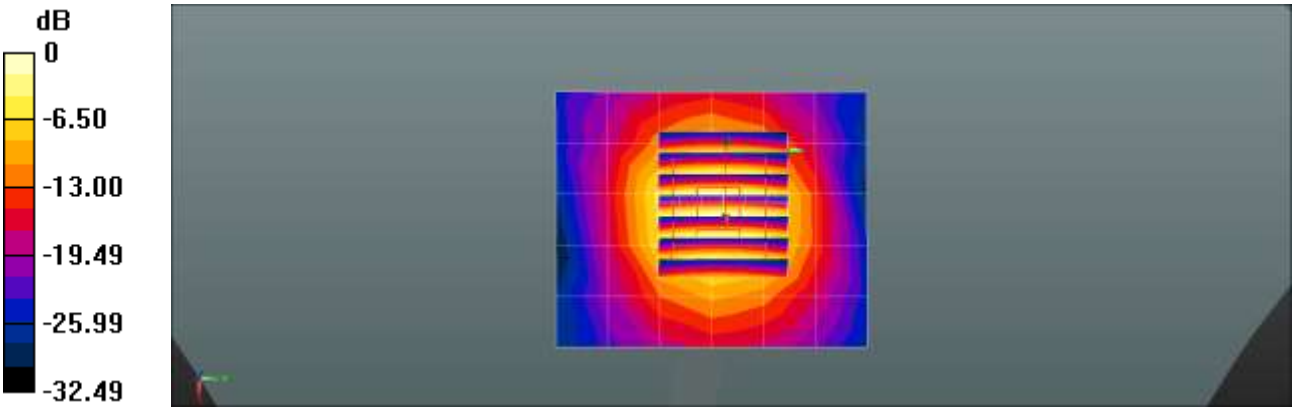
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.158 S/m; ε_r = 38.697; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.23 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.71 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 9.12 W/kg
SAR(1 g) = 3.37 W/kg; SAR(10 g) = 1.26 W/kg
Maximum value of SAR (measured) = 6.69 W/kg



0 dB = 6.69 W/kg = 8.25 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 22.0 ℃
Test Date: 10/13/2023
Band: NR TDD Band n77Body - Antenna F

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

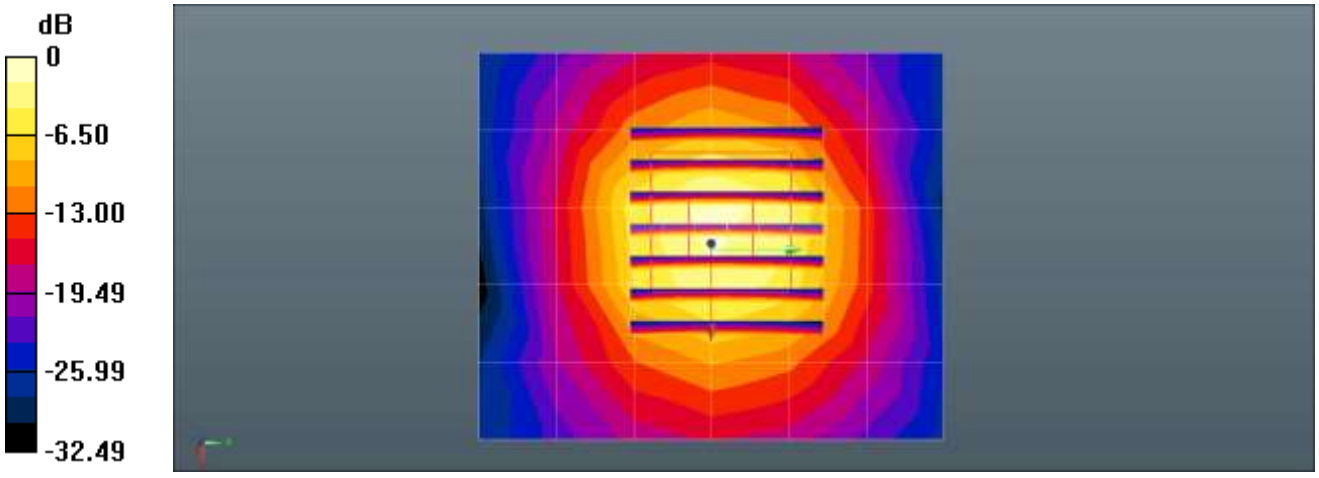
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.109 S/m; ε_r = 38.359; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.11 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.03 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 8.59 W/kg
SAR(1 g) = 3.2 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 6.33 W/kg



0 dB = 6.33 W/kg = 8.01 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 22.0 ℃
Test Date: 10/11/2023
Band: NR TDD Band n77 - Antenna C(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

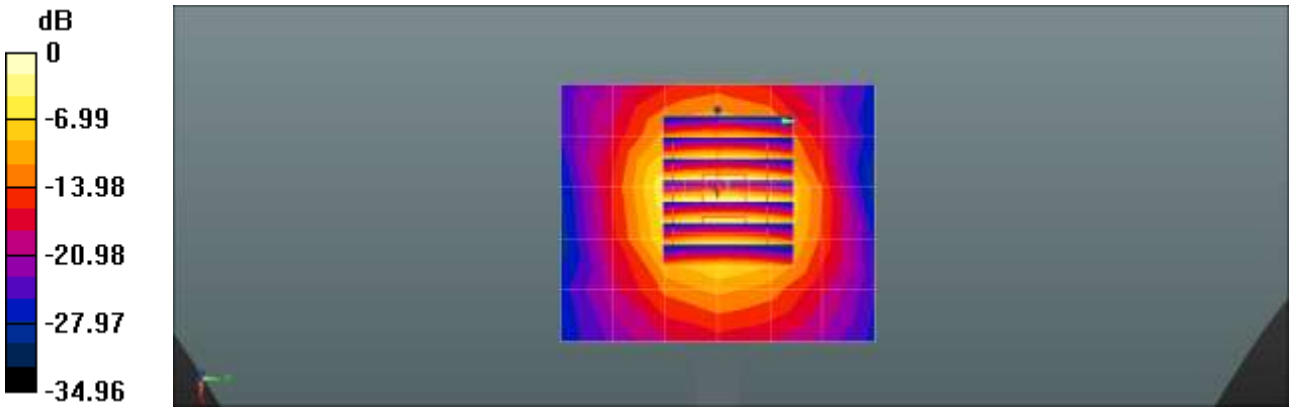
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.158 S/m; ε_r = 38.695; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.88 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 46.92 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 9.12 W/kg
SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.26 W/kg
Maximum value of SAR (measured) = 6.66 W/kg



0 dB = 6.66 W/kg = 8.23 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 22.3 ℃
Test Date: 10/12/2023
Band: NR TDD Band n77 - Antenna I(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

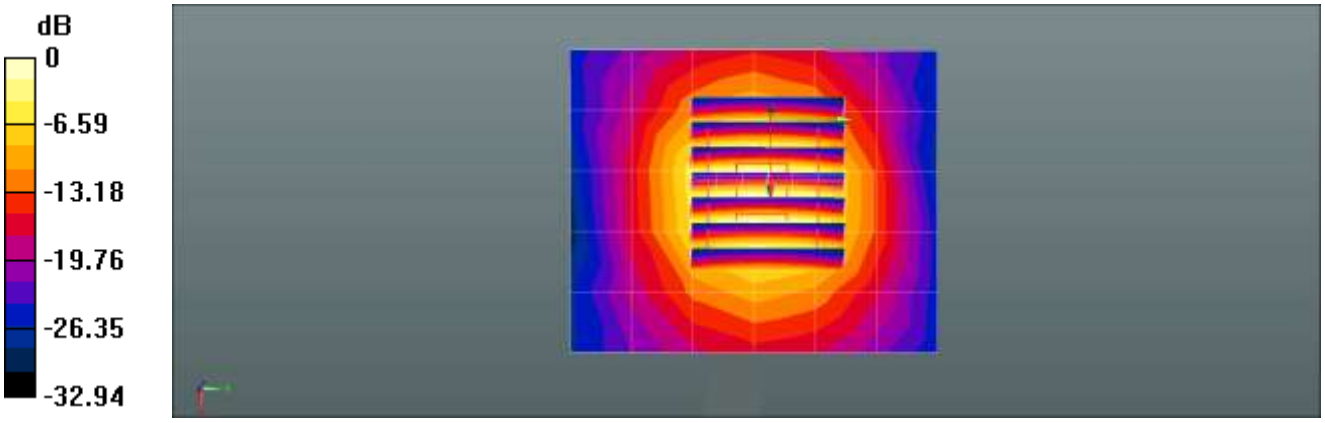
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.158 S/m; ε_r = 38.7; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.44, 7.44, 7.44) @ 3700 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3700MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.85 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 46.23 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 8.47 W/kg
SAR(1 g) = 3.14 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 6.23 W/kg



0 dB = 6.23 W/kg = 7.94 dBW/kg

■ Verification Data (3 700 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	10/15/2023
Band:	NR TDD Band n77 - Antenna D(SRS)

DUT: Dipole 3700 MHz; Type: D3700V2; Serial: D3700V2 - SN:1066

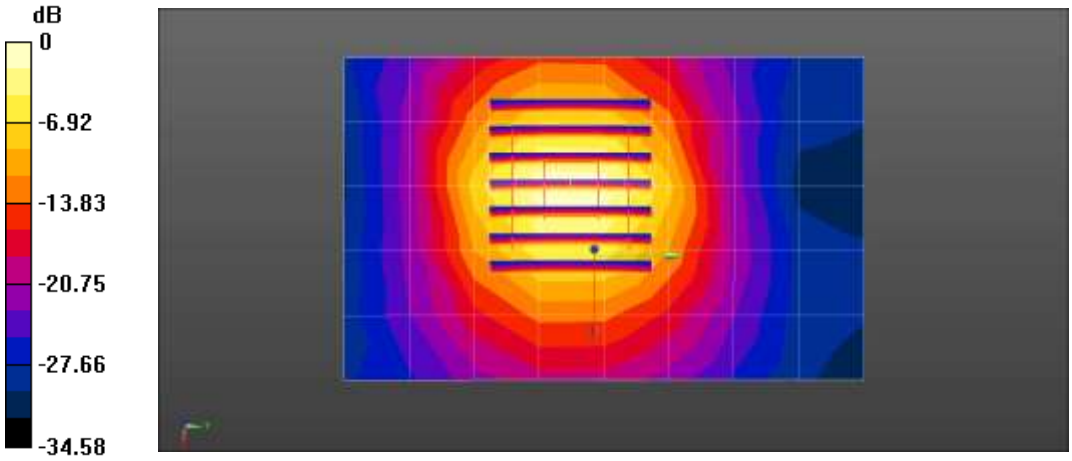
Communication System: UID 0, CW (0); Frequency: 3700 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3700 MHz; σ = 3.159 S/m; ε_r = 38.702; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(6.42, 6.09, 6.34) @ 3700 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

3700MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.61 W/kg

3700MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 38.49 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 9.33 W/kg
SAR(1 g) = 3.26 W/kg; SAR(10 g) = 1.18 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 41.2%
Maximum value of SAR (measured) = 6.73 W/kg



0 dB = 6.73 W/kg = 8.28 dBW/kg

■ Verification Data (3 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	10/04/2023
Band:	NR TDD Band n77Head/n78Body - Antenna F

DUT: D3900V2 - SN1019; Type: D3900V2; Serial: SN1019

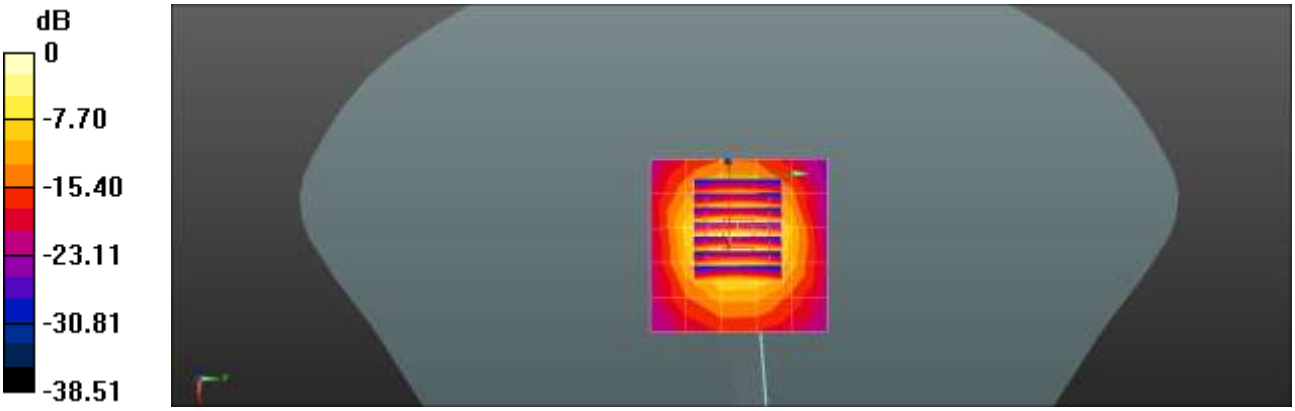
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.304 S/m; ε_r = 38.486; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7, 7, 7) @ 3900 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3900MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.77 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.65 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 8.91 W/kg
SAR(1 g) = 3.32 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 6.70 W/kg



0 dB = 6.70 W/kg = 8.26 dBW/kg

■ Verification Data (3 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	10/13/2023
Band:	NR TDD Band n77 Body - Antenna F

DUT: D3900V2 - SN1019; Type: D3900V2; Serial: SN1019

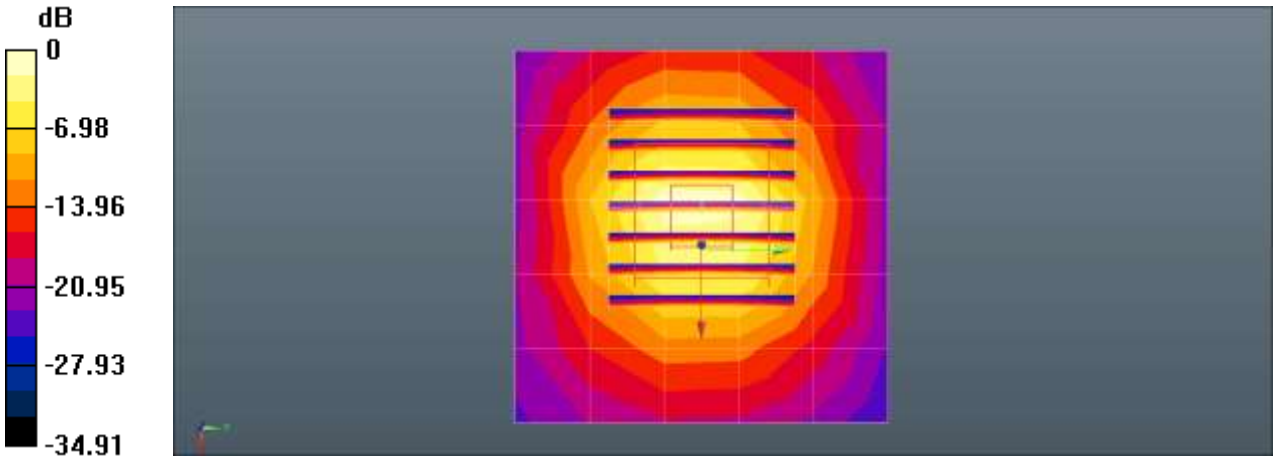
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.254 S/m; ε_r = 38.146; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7, 7, 7) @ 3900 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3900MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 5.07 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 47.72 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 9.05 W/kg
SAR(1 g) = 3.38 W/kg; SAR(10 g) = 1.21 W/kg
Maximum value of SAR (measured) = 6.76 W/kg



0 dB = 6.76 W/kg = 8.30 dBW/kg

■ Verification Data (3 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.0 ℃
Test Date:	10/11/2023
Band:	NR TDD Band n77 Body - Antenna C(SRS)

DUT: D3900V2 - SN1019; Type: D3900V2; Serial: SN1019

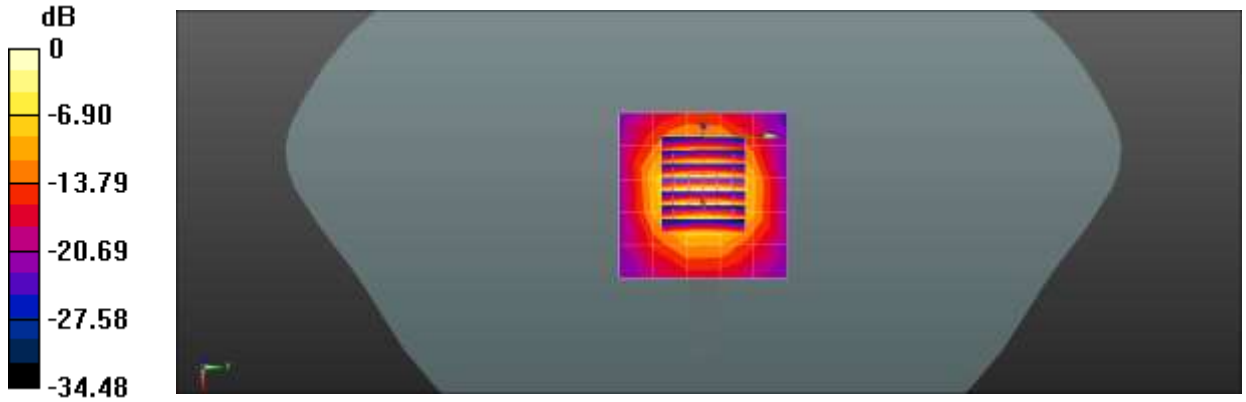
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.304 S/m; ε_r = 38.48; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7, 7, 7) @ 3900 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3900MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.30 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.75 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 8.94 W/kg
SAR(1 g) = 3.32 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 6.72 W/kg



0 dB = 6.72 W/kg = 8.27 dBW/kg

■ Verification Data (3 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.3 ℃
Test Date:	10/12/2023
Band:	NR TDD Band n77 Body - Antenna I(SRS)

DUT: D3900V2 - SN1019; Type: D3900V2; Serial: SN1019

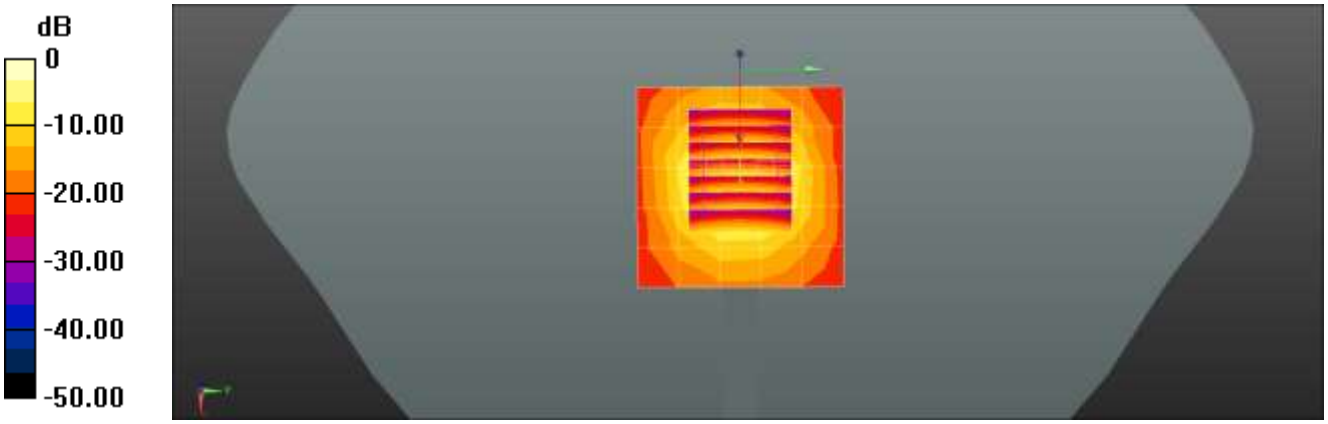
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.303 S/m; ε_r = 38.481; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7, 7, 7) @ 3900 MHz; Calibrated: 2023-06-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2023-07-18
- Phantom: SAM with CRP v5.0(Front); Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

3900MHz Head Verification/Area Scan (6x6x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.32 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 48.61 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 8.93 W/kg
SAR(1 g) = 3.3 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 6.71 W/kg



0 dB = 6.71 W/kg = 8.27 dBW/kg

■ Verification Data (3 900 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	10/15/2023
Band:	NR TDD Band n77 Body - Antenna D(SRS)

DUT: D3900V2 - SN1019; Type: D3900V2; Serial: SN1019

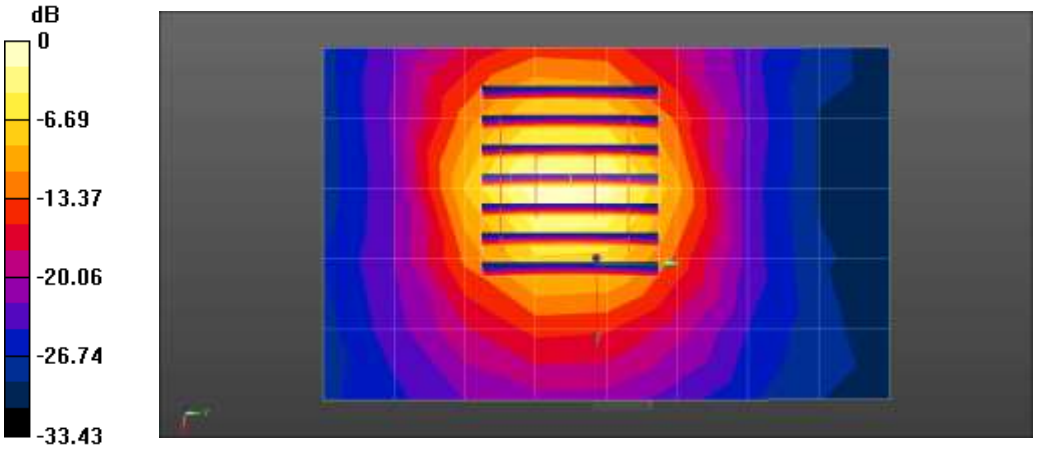
Communication System: UID 0, CW (0); Frequency: 3900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 3900 MHz; σ = 3.303 S/m; ε_r = 38.483; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(6.56, 6.25, 6.5) @ 3900 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

3900MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 6.35 W/kg

3900MHz Head Verification/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 35.03 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 10.6 W/kg
SAR(1 g) = 3.41 W/kg; SAR(10 g) = 1.17 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 38.2%
Maximum value of SAR (measured) = 7.30 W/kg



0 dB = 7.30 W/kg = 8.63 dBW/kg

* Extremity SAR

■ Verification Data (13 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	09/22/2023
Band:	NFC

DUT: CLA-13 - SN1016; Type: CLA-13; Serial: SN1016

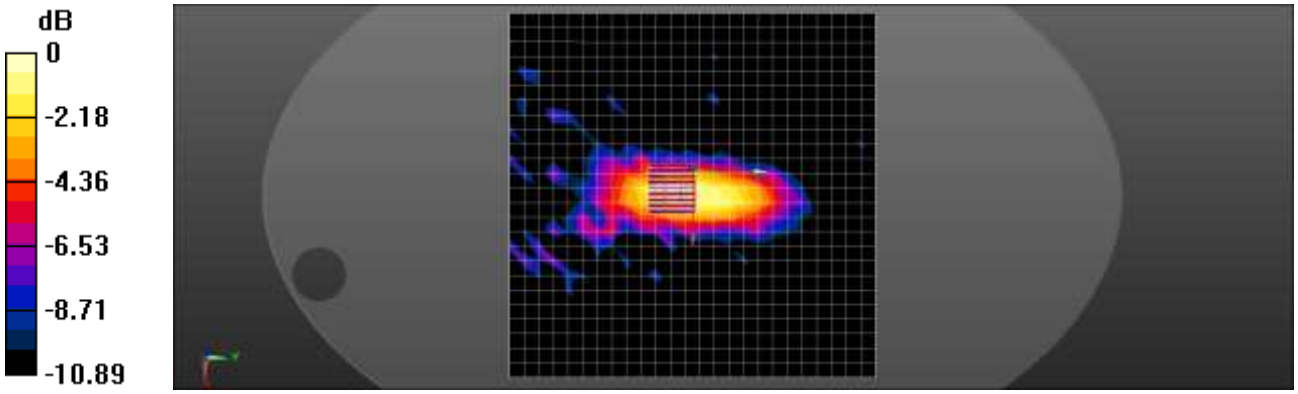
Communication System: UID 0, NFC (0); Frequency: 13 MHz;Duty Cycle: 1:1
Medium parameters used: f = 13 MHz; σ = 0.724 S/m; ε_r = 54.315; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.8, 5.8, 5.8) @ 13 MHz; Calibrated: 2023-07-18
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2023-03-23
- Phantom: ELI v5.0 Left; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

13MHz Head Verification/Area Scan (26x26x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.0309 W/kg

13MHz Head Verification/Zoom Scan (9x9x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 6.434 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.0550 W/kg
SAR(1 g) = 0.027 W/kg; SAR(10 g) = 0.017 W/kg
Maximum value of SAR (measured) = 0.0333 W/kg



0 dB = 0.0333 W/kg = -14.78 dBW/kg

■ Verification Data (5 250 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	09/21/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

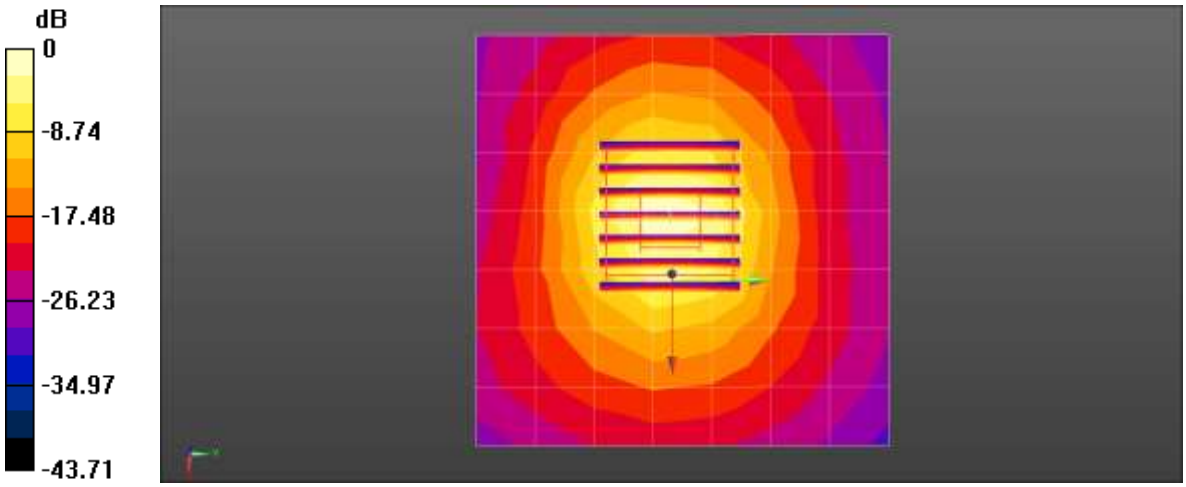
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.662 S/m; ε_r = 36.469; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(5.08, 4.78, 5.04) @ 5250 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5250MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.01 W/kg

5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 47.90 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 19.9 W/kg
SAR(1 g) = 4.13 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 10.7 W/kg



0 dB = 10.7 W/kg = 10.29 dBW/kg

■ Verification Data (5 600 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.4 ℃
Test Date:	09/22/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

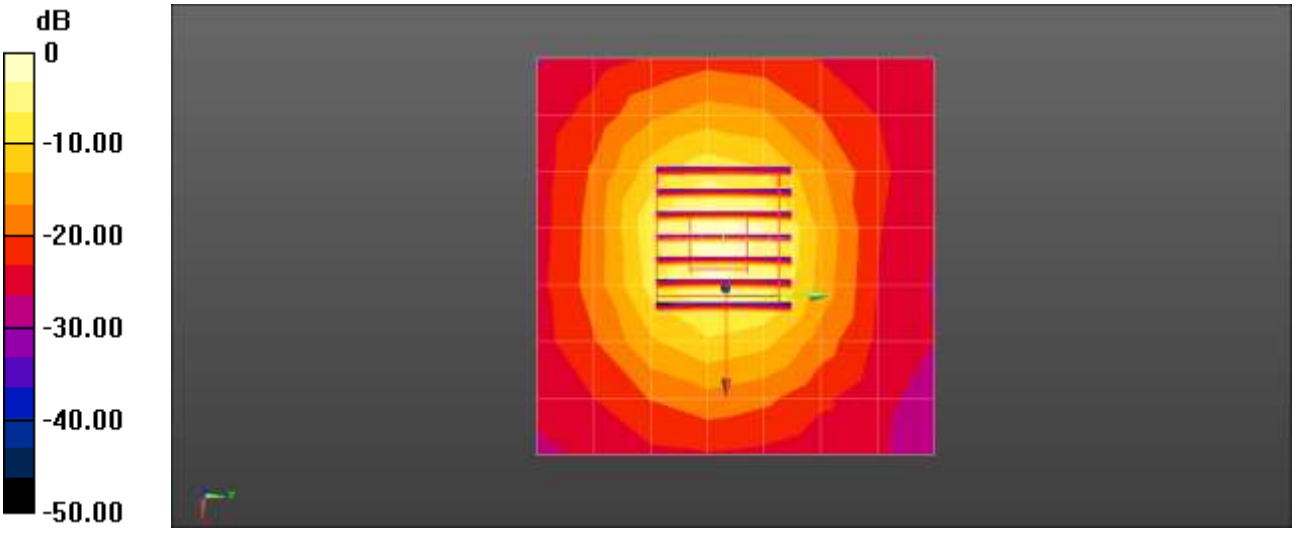
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.002 S/m; ε_r = 36.183; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.37, 4.3, 4.48) @ 5600 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.82 W/kg

5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.51 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 20.1 W/kg
SAR(1 g) = 4.12 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

■ Verification Data (5 800 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	22.4 ℃
Test Date:	09/25/2023
Band:	5 GHz WLAN SISO

DUT: Dipole 5 GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN:1317

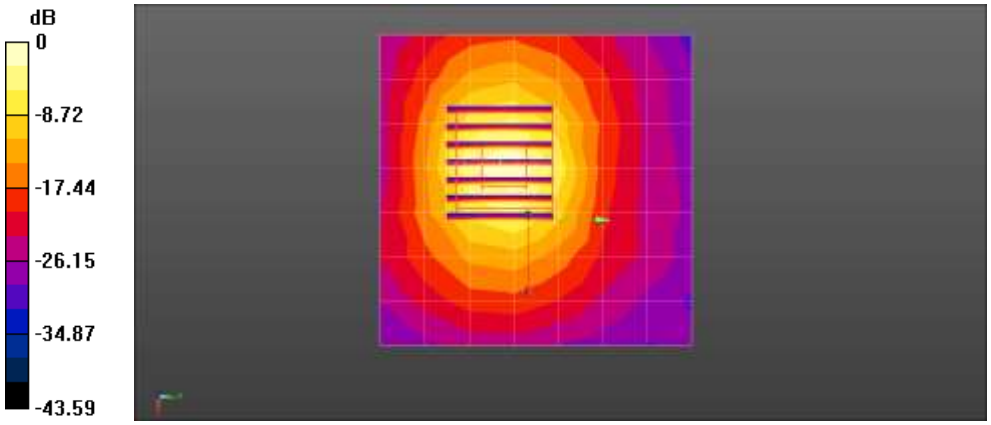
Communication System: UID 0, CW (0); Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; σ = 5.158 S/m; ε_r = 36.016; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.52, 4.22, 4.46) @ 5800 MHz; Calibrated: 2023-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2023-01-10
- Phantom: Twin-SAM V8.0 (20deg probe tilt); Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

5800MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.45 W/kg

5800MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 32.00 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 3.95 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 9.98 W/kg



0 dB = 9.98 W/kg = 9.99 dBW/kg

Appendix D. – SAR Tissue Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and saline solution (see Table 3.1). Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.

Ingredients (% by weight)	Frequency (㎒)											
	750		835		1 750		1 900		2 450 – 2 700		3500 - 5 800	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	41.1	51.7	40.45	53.06	52.6	68.8	54.9	70.17	71.88	73.2	65.52	78.66
Salt (NaCl)	1.4	0.9	1.45	0.94	0.4	0.2	0.18	0.39	0.16	0.1	0.0	0.0
Sugar	57.0	47.2	57.0	44.9	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
HEC	0.2	0	1.0	1.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
Bactericide	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.97	0.0	17.24	10.67
DGBE	0.0	0.0	0.0	0.0	47	31	44.92	29.44	7.99	26.7	0.0	0.0
Diethylene glycol hexyl ether	-	-	-	-	-	-	-	-	-	-	-	-

Salt:	99 % Pure Sodium Chloride	Sugar:	98 % Pure Sucrose
Water:	De-ionized, 16M resistivity	HEC:	Hydroxyethyl Cellulose
DGBE:	99 % Di(ethylene glycol) butyl ether,[2-(2-butoxyethoxy) ethanol]		
Triton X-100(ultra-pure):	Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl] ether		

Composition of the Tissue Equivalent Matter

Appendix E. – SAR System Validation

Per FCC KCB 865664 D02v01r02, SAR system validation status should be document to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEEE 1528-2013 and FCC KDB 865664 D01v01r04. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.
A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

SAR System No.	Probe	Probe Type	Probe Calibration Point		Dipole	Date	Dielectric Parameters		CW Validation			Modulation Validation		
							Measured Permittivity	Measured Conductivity	Sensitivity	Probe Linearity	Probe Isotropy	MOD. Type	Duty Factor	PAR
10	3076	ES3DV3	Head	750	1014	2023-07-20	41.7	0.87	PASS	PASS	PASS	N/A	N/A	N/A
14	7655	EX3DV4	Head	750	1014	2023-05-29	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
20	7732	EX3DV4	Head	750	1014	2023-06-21	39.2	1.83	PASS	PASS	PASS	N/A	N/A	PASS
8	7654	EX3DV4	Head	835	4d165	2023-05-25	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
8	7654	EX3DV4	Head	835	4d165	2022-05-25	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
10	3076	ES3DV3	Head	835	4d165	2023-07-23	41.6	0.92	PASS	PASS	PASS	N/A	N/A	N/A
10	3076	ES3DV3	Head	835	4d165	2023-07-23	41.6	0.92	PASS	PASS	PASS	GMSK	PASS	N/A
20	7732	EX3DV4	Head	835	4d165	2023-06-21	41.6	0.92	PASS	PASS	PASS	N/A	N/A	PASS
22	3768	EX3DV4	Head	1640	345	2323-07-20	41.7	1.25	PASS	PASS	PASS	N/A	N/A	PASS
9	7309	EX3DV4	Head	1750	2d015	2023-06-23	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
5	3076	ES3DV3	Head	1750	2d015	2023-07-19	40.2	1.39	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1750	2d015	2023-07-25	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	1900	5d061	2023-06-22	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	1900	5d061	2023-06-22	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
10	3076	ES3DV3	Head	1900	5d061	2023-07-22	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
3	3903	EX3DV4	Head	1900	5d061	2023-07-22	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
10	3076	ES3DV3	Head	2300	1010	2023-07-27	39.1	1.74	PASS	PASS	PASS	NA	N/A	NA
11	7679	EX3DV4	Head	2300	1010	2023-08-26	39.3	1.73	PASS	PASS	PASS	NA	N/A	NA
8	7654	EX3DV4	Head	2450	1049	2023-05-30	39.3	1.84	PASS	PASS	PASS	OFDM	N/A	PASS
22	3768	EX3DV4	Head	2450	1049	2023-07-19	39.1	1.80	PASS	PASS	PASS	OFDM	N/A	PASS
16	7622	EX3DV4	Head	2600	1106	2023-05-28	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
16	7622	EX3DV4	Head	2600	1106	2023-05-28	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
10	3076	ES3DV3	Head	2600	1106	2023-07-27	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
14	7655	EX3DV4	Head	2600	1106	2023-05-29	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
6	7370	EX3DV4	Head	2600	1106	2023-08-27	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
11	7679	EX3DV4	Head	2600	1106	2023-08-26	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
14	7655	EX3DV4	Head	3500	1040	2023-05-29	37.9	2.92	PASS	PASS	PASS	TDD	PASS	NA
14	7655	EX3DV4	Head	3700	1066	2023-05-29	37.5	3.13	PASS	PASS	PASS	TDD	PASS	NA
20	7732	EX3DV4	Head	3500	1040	2023-06-21	37.8	2.93	PASS	PASS	PASS	OFDM	N/A	PASS
20	7732	EX3DV4	Head	3700	1066	2023-06-22	37.5	3.07	PASS	PASS	PASS	OFDM	N/A	PASS
20	7732	EX3DV4	Head	3900	1019	2023-06-23	37.3	3.21	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5250	1317	2023-05-19	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5600	1317	2023-05-19	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5750	1317	2023-05-19	35.6	5.24	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5800	1317	2023-05-19	35.1	5.18	PASS	PASS	PASS	OFDM	N/A	PASS

SAR System Validation Summary 1g

SAR System No.	Probe	Probe Type	Probe Calibration Point		Dipole	Date	Dielectric Parameters		CW Validation			Modulation Validation		
							Measured Permittivity	Measured Conductivity	Sensitivity	Probe Linearity	Probe Isotropy	MOD. Type	Duty Factor	PAR
10	3076	ES3DV3	Head	13	1016	2023-09-22	54.5	0.73	PASS	PASS	PASS	N/A	N/A	N/A
2	3797	EX3DV4	Head	5250	1317	2023-05-19	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5600	1317	2023-05-19	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5800	1317	2023-05-19	35.1	5.18	PASS	PASS	PASS	OFDM	N/A	PASS

SAR System Validation Summary – Extremity SAR Considerations

Note;
All measurement were performed using probes calibrated for CW signal only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04. SAR system were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to KDB 865664 D01v01r04.