

Appendix B. – SAR Test Plots

EUT Type: Mobile Phone
 Ambient Temperature: 22.5°C
 Liquid Temperature: 22.4°C
 Test Date: 05/19/2025
 Band: UMTS Band 4 Head SAR_Ant.I
 Plot No.: A1

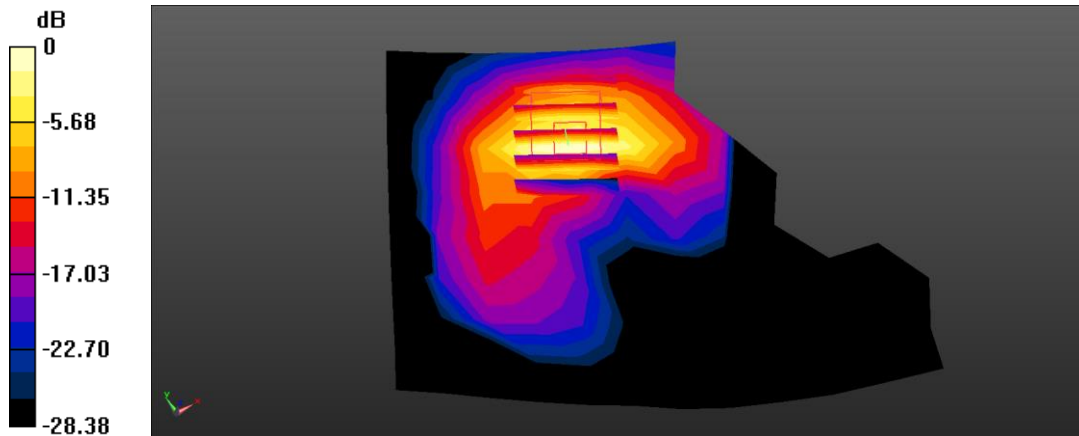
Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 41.408$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1732.6 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 4 Head Left Touch 1412ch/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.829 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 5.474 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 0.978 W/kg
SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.228 W/kg
 Maximum value of SAR (measured) = 0.839 W/kg



0 dB = 0.839 W/kg = -0.76 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 21.4°C
 Liquid Temperature: 21.3°C
 Test Date: 05/16/2025
 Band: UMTS Band 2 Head SAR_Ant.I
 Plot No.: A2

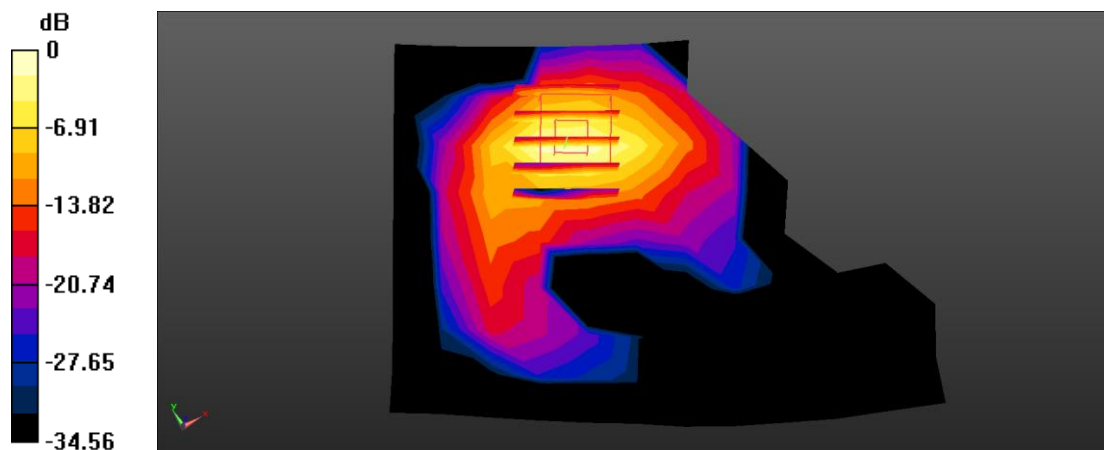
Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95434
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.359 \text{ S/m}$; $\epsilon_r = 39.398$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1880 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (9x14x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.901 W/kg

UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.922 V/m; Power Drift = 0.08 dB
 Peak SAR (extrapolated) = 1.32 W/kg
SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.247 W/kg
 Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 21.5°C
 Liquid Temperature: 21.4°C
 Test Date: 05/02/2025
 Band: LTE FDD Band 25 Head SAR_Ant.I
 Plot No.: A3

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1860 MHz; Duty Cycle: 1:3.73852
 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 39.262$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

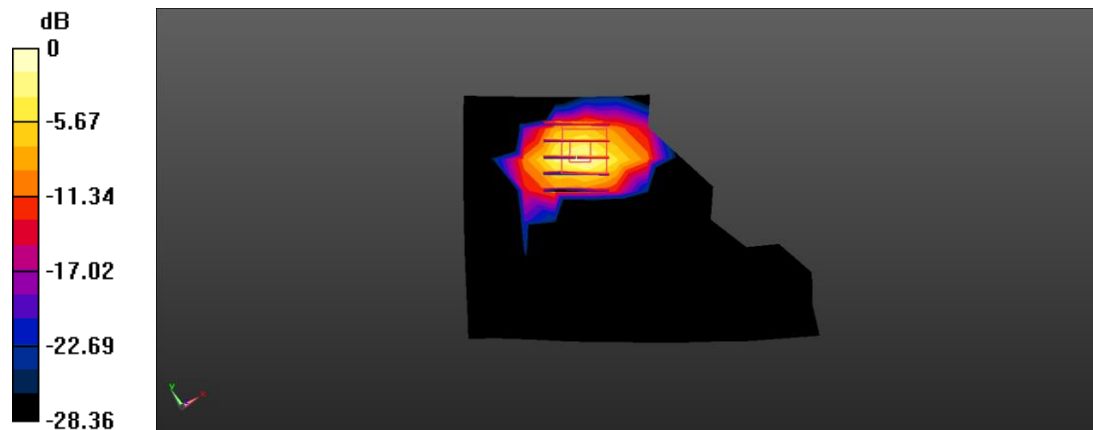
- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1860 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 25 Head Left Touch DFT-s QPSK 20MHz 1RB 0offset 26140ch/Area Scan (9x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 0.555 W/kg

LTE Band 25 Head Left Touch DFT-s QPSK 20MHz 1RB 0offset 26140ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 1.718 V/m; Power Drift = 0.17 dB
 Peak SAR (extrapolated) = 0.815 W/kg
SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.140 W/kg
 Maximum value of SAR (measured) = 0.643 W/kg



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

EUT Type: Mobile Phone
 Ambient Temperature: 21.2°C
 Liquid Temperature: 21.1°C
 Test Date: 05/22/2025
 Band: LTE TDD Band 41 Head SAR_Ant.I
 Plot No.: A4
 Measurement Report for Device, CHEEK, Band 41, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 41055 (2636.500 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
LeftHead, Head Simulating Liquid	CHEEK, 0.00	Band 41	LTE-TDD, 10494-AAG	2636.500, 41055	6.55	2.05	38.9

Hardware Setup

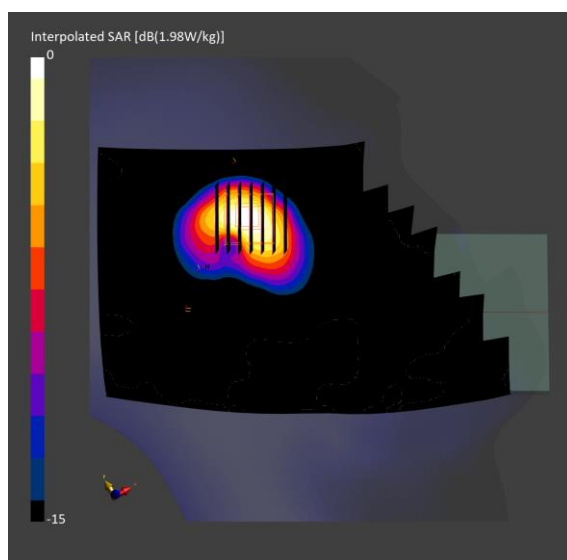
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	110.0 x 180.0	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
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.701	0.710
psSAR10g [W/Kg]	0.285	0.264
Power Drift [dB]	-0.19	0.10



EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/14/2025
 Band: LTE FDD Band 66 Head SAR_Ant.I
 Plot No.: A5

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1770 MHz; Duty Cycle: 1:3.73852
 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 41.263$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

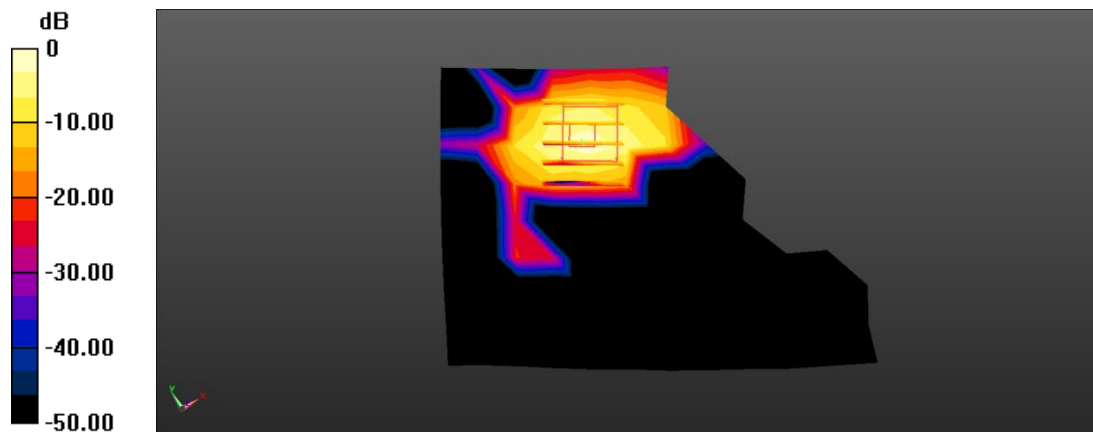
- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1770 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 Head Left Touch DFT-s QPSK 20MHz 50RB 49offset 132572ch/Area Scan (9x14x1):

Measurement grid: $dx=15$ mm, $dy=15$ mm
 Maximum value of SAR (measured) = 0.328 W/kg

LTE Band 66 Head Left Touch DFT-s QPSK 20MHz 50RB 49offset 132572ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 1.254 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 0.526 W/kg
SAR(1 g) = 0.221 W/kg; SAR(10 g) = 0.094 W/kg
 Maximum value of SAR (measured) = 0.412 W/kg



0 dB = 0.412 W/kg = -3.85 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/15/2025
 Band: NR FDD Band n25 Head SAR_Ant.I
 Plot No.: A6

Communication System: UID 10942 - AAC, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1882.5 MHz; Duty Cycle: 1:3.84769
 Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.362$ S/m; $\epsilon_r = 39.479$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

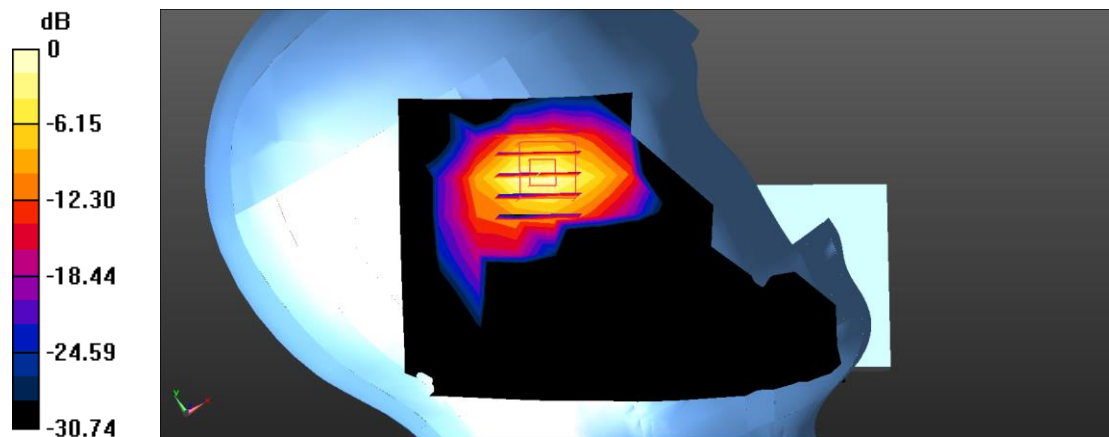
- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1882.5 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n25 Head Left Touch DFT-s QPSK 40MHz 108RB 0offset 376500ch/Area Scan (9x14x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.05 W/kg

NR Band n25 Head Left Touch DFT-s QPSK 40MHz 108RB 0offset 376500ch/Zoom Scan (5x5x7)/Cube

0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 2.648 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 1.58 W/kg
SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.271 W/kg
 Maximum value of SAR (measured) = 1.28 W/kg



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

EUT Type: Mobile Phone
 Ambient Temperature: 22.0°C
 Liquid Temperature: 21.9°C
 Test Date: 05/23/2025
 Band: NR FDD Band n41 Head SAR_Ant.I
 Plot No.: A7
 Measurement Report for Device, CHEEK, Band n41, 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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
LeftHead, Head Simulating Liquid	CHEEK, 0.00	Band n41	5G NR FR1 TDD, 10917-AAD	2592.990, 518598	6.55	1.98	39.1

Hardware Setup

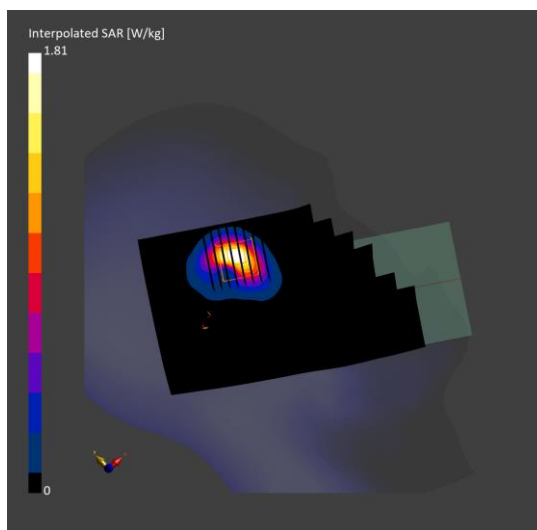
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 200.0	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
Grading Ratio	N/A	1.4

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.638	0.633
psSAR10g [W/Kg]	0.271	0.247
Power Drift [dB]	-0.11	0.15



EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/14/2025
 Band: NR FDD Band n66 Head SAR_Ant.I
 Plot No.: A8

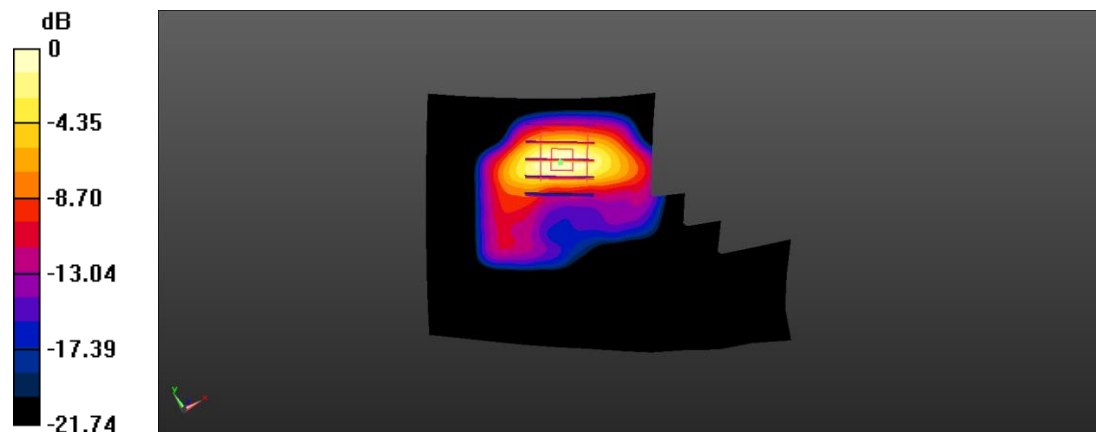
Communication System: UID 10934 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1745 MHz; Duty Cycle: 1:3.55877
 Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³
 Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1745 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n66 Head Left Touch DFT-s QPSK 40MHz 1RB 108offset 349000ch/Area Scan (81x131x1):
 Interpolated grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 0.716 W/kg

NR Band n66 Head Left Touch DFT-s QPSK 40MHz 1RB 108offset 349000ch/Zoom Scan (5x5x7)/Cube
 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 4.929 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 0.801 W/kg
SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.193 W/kg
 Maximum value of SAR (measured) = 0.684 W/kg



0 dB = 0.684 W/kg = -1.65 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 22.5°C
 Liquid Temperature: 22.4°C
 Test Date: 05/19/2025
 Band: UMTS Band 4 Body SAR_Ant. I Open
 Plot No.: B1

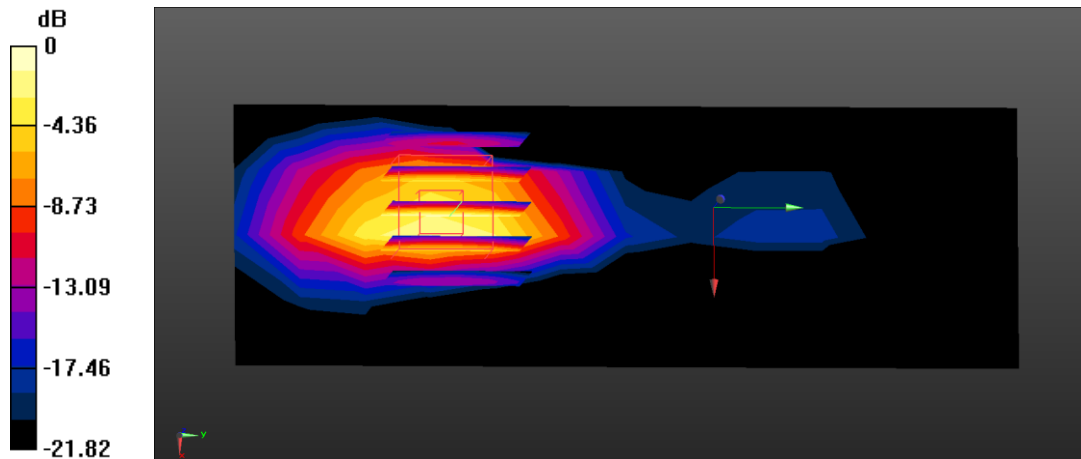
Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1.95434
 Medium parameters used (interpolated): $f = 1732.6$ MHz; $\sigma = 1.356$ S/m; $\epsilon_r = 41.408$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1732.6 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 4 Body Right 1412ch/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.815 W/kg

UMTS Band 4 Body Right 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 4.051 V/m; Power Drift = 0.15 dB
 Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.322 W/kg
 Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

EUT Type: Mobile Phone
Ambient Temperature: 21.4°C
Liquid Temperature: 21.3°C
Test Date: 05/16/2025
Band: UMTS Band 2 Body SAR_Ant. I Open
Plot No.: B2

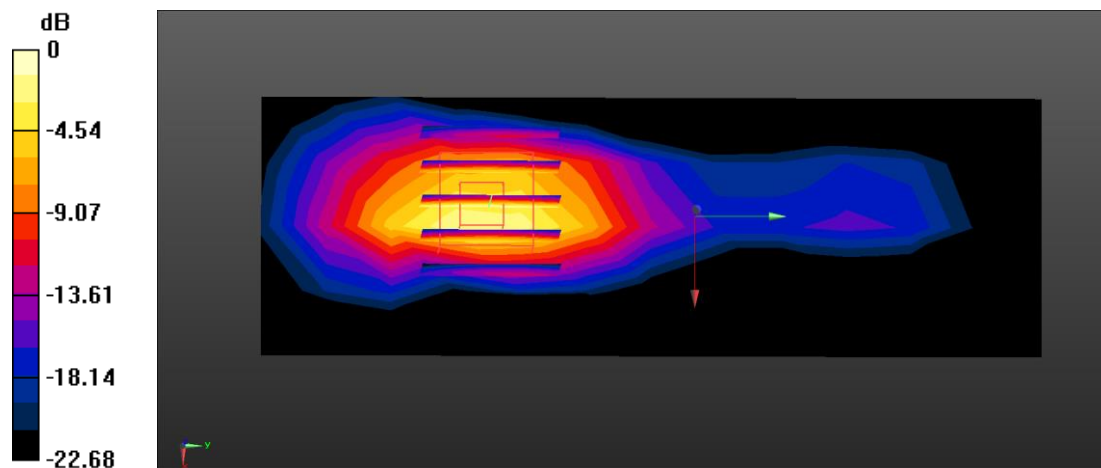
Communication System: UID 10011 - CAC, UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1.95434
 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.359 \text{ S/m}$; $\epsilon_r = 39.398$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1880 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

UMTS Band 2 Body Right 9400ch/Area Scan (5x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 0.844 W/kg

UMTS Band 2 Body Right 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 5.662 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.729 W/kg; SAR(10 g) = 0.327 W/kg
 Maximum value of SAR (measured) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 22.1 °C
 Liquid Temperature: 22.0 °C
 Test Date: 05/27/2025
 Band: LTE FDD Band 13 Body SAR_Ant.A Close
 Plot No.: B3
 Measurement Report for Device, BACK, Band 13, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) RBPosition:Low
 AntennaCfg:SISO, Channel 23230 (782.000 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, Head Simulating Liquid	BACK, 5.00	Band 13	LTE-FDD, 10154-CAH	782.000, 23230	10.22	0.876	42.9

Hardware Setup

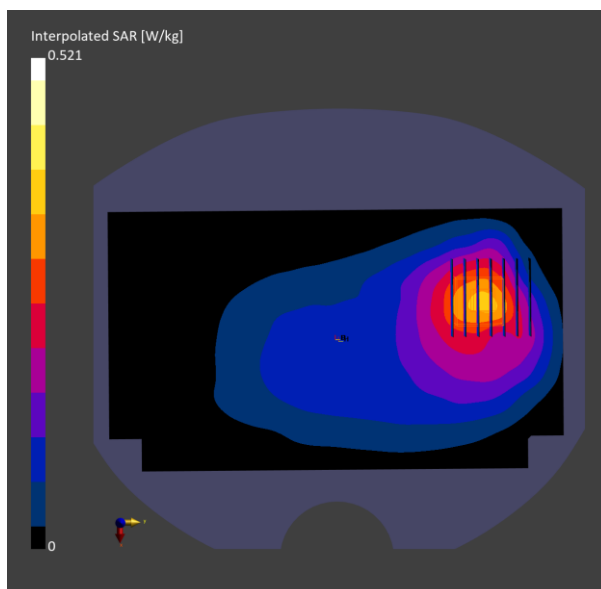
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7622, 2024-11-22	DAE4 Sn869, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.318	0.313
psSAR10g [W/Kg]	0.211	0.193
Power Drift [dB]	-0.03	-0.01



EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/15/2025
 Band: LTE FDD Band 25 Body SAR_Ant.I Open
 Plot No.: B4

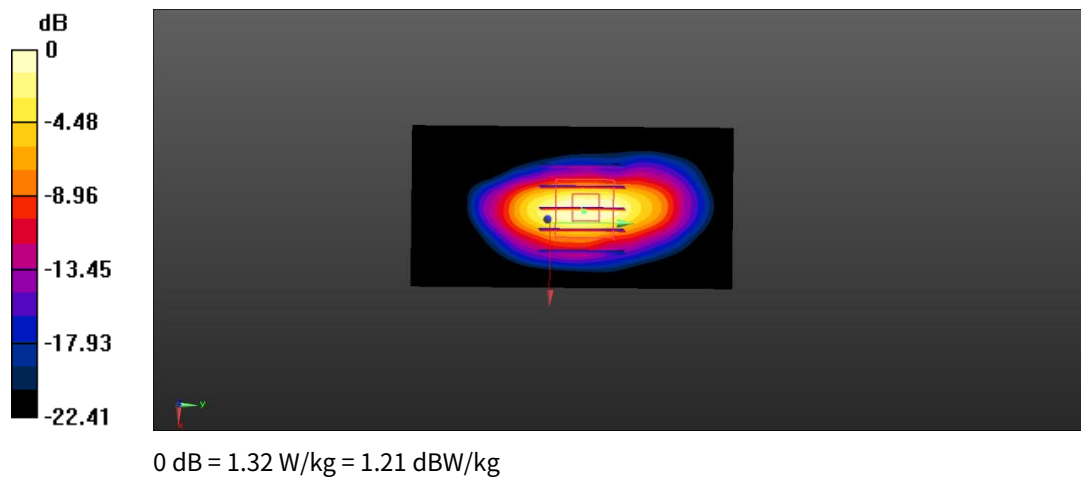
Communication System: UID 10297 - AAE, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK); Frequency: 1904.9 MHz; Duty Cycle: 1:3.80978
 Medium parameters used (interpolated): $f = 1904.9$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 39.095$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1904.9 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 25 Body Right DFT-s QPSK 20MHz 50RB 0offset 26590ch/Area Scan (41x81x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 1.37 W/kg

LTE Band 25 Body Right DFT-s QPSK 20MHz 50RB 0offset 26590ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 31.79 V/m; Power Drift = -0.06 dB
 Peak SAR (extrapolated) = 1.60 W/kg
SAR(1 g) = 0.787 W/kg; SAR(10 g) = 0.344 W/kg
 Maximum value of SAR (measured) = 1.32 W/kg



EUT Type: Mobile Phone
 Ambient Temperature: 21.2°C
 Liquid Temperature: 21.1°C
 Test Date: 05/23/2025
 Band: LTE FDD Band 41 Body SAR_Ant.I Open
 Plot No.: B5
 Measurement Report for Device, EDGE RIGHT, Band 41, LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) RBPosition:Mid AntennaCfg:SISO, Channel 39750 (2506.000 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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band 41	LTE-TDD, 10494-AAG	2506.000, 39750	6.55	1.88	39.2

Hardware Setup

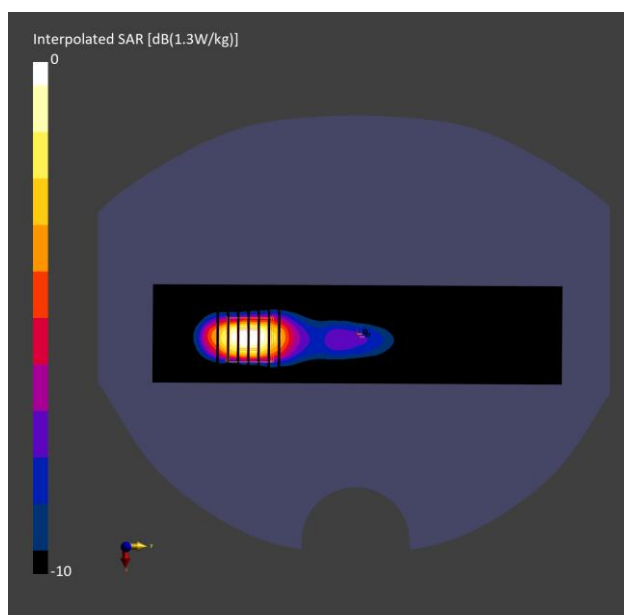
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - xxxx	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	8.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.950	0.981
psSAR10g [W/Kg]	0.395	0.382
Power Drift [dB]	0.14	-0.02



EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/14/2025
 Band: LTE FDD Band 66 Body SAR_Ant.I Open
 Plot No.: B6

Communication System: UID 10169 - CAF, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1770 MHz; Duty Cycle: 1:3.73852
 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 41.263$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

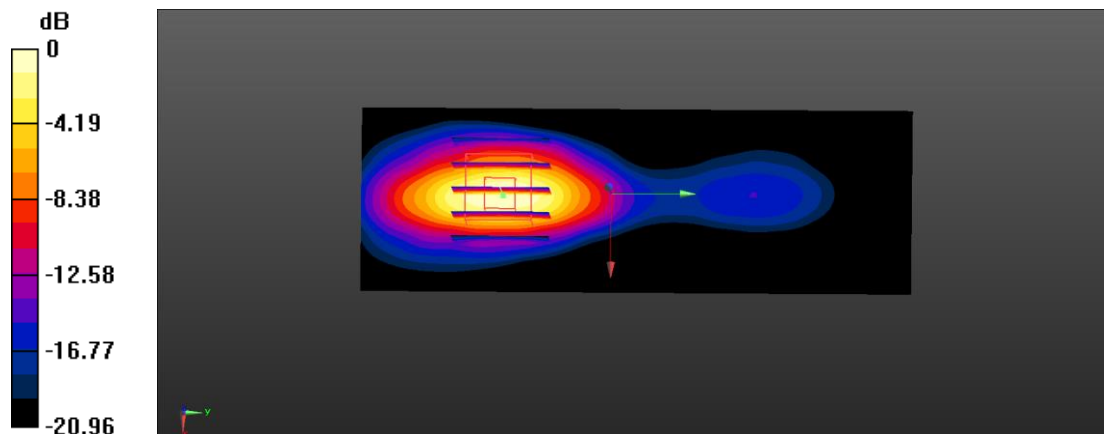
- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1770 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

LTE Band 66 Body Right DFT-s QPSK 20MHz 1RB 99offset 132572ch/Area Scan (41x121x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm
 Maximum value of SAR (interpolated) = 1.26 W/kg

LTE Band 66 Body Right DFT-s QPSK 20MHz 1RB 99offset 132572ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm
 Reference Value = 5.416 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.359 W/kg
 Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/15/2025
 Band: NR FDD Band n25 Body SAR_Ant.I Open
 Plot No.: B7

Communication System: UID 10942 - AAC, 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1882.5 MHz; Duty Cycle: 1:3.84769
 Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 39.331$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

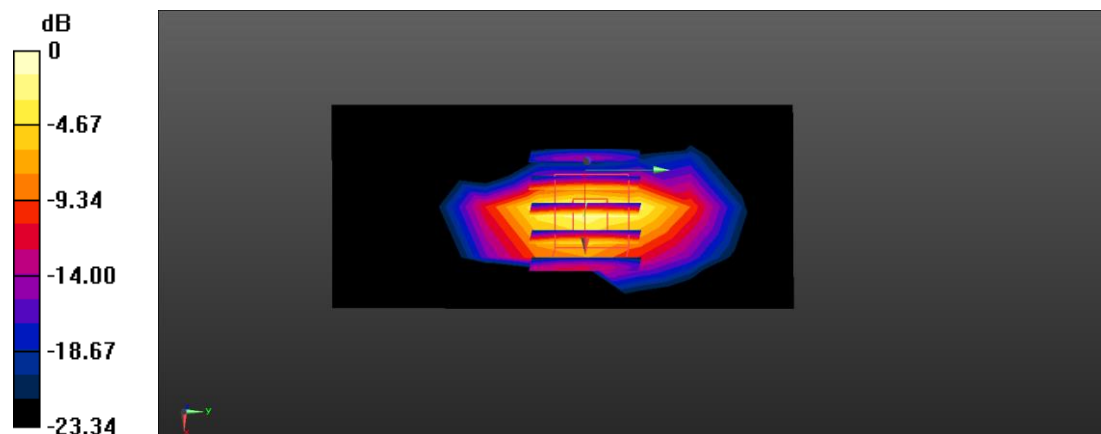
- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1882.5 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n25 Body Right DFT-s QPSK 40MHz 108RB 0offset 376500ch/Area Scan (5x10x1):

Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.38 W/kg

NR Band n25 Body Right DFT-s QPSK 40MHz 108RB 0offset 376500ch/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 31.32 V/m; Power Drift = -0.16 dB
 Peak SAR (extrapolated) = 2.00 W/kg
SAR(1 g) = 0.954 W/kg; SAR(10 g) = 0.411 W/kg
 Maximum value of SAR (measured) = 1.65 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 22.0°C
 Liquid Temperature: 21.9°C
 Test Date: 05/23/2025
 Band: NR TDD Band n41 Body SAR_Ant.I Close
 Plot No.: B8
 Measurement Report for Device, EDGE RIGHT, Band n41, 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz) RBPosition:Mid AntennaCfg:SISO, Channel 518598 (2592.990 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, Head Simulating Liquid	EDGE RIGHT, 5.00	Band n41	5G NR FR1 TDD, 10917-AAD	2592.990, 518598	6.55	1.98	39.1

Hardware Setup

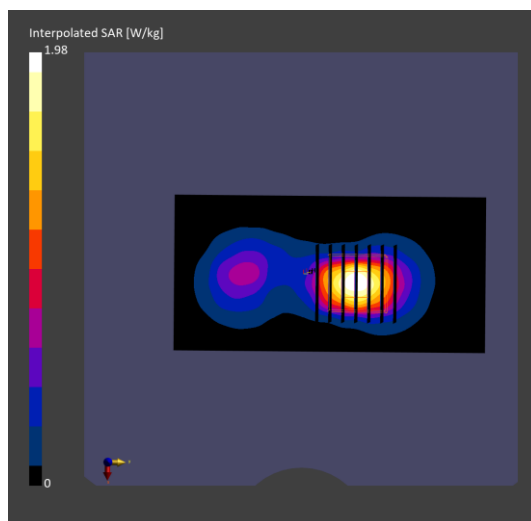
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	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
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.764	0.811
psSAR10g [W/Kg]	0.339	0.320
Power Drift [dB]	-0.10	-0.02



EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/14/2025
 Band: NR FDD Band n66 Body SAR_Ant.I Open
 Plot No.: B9

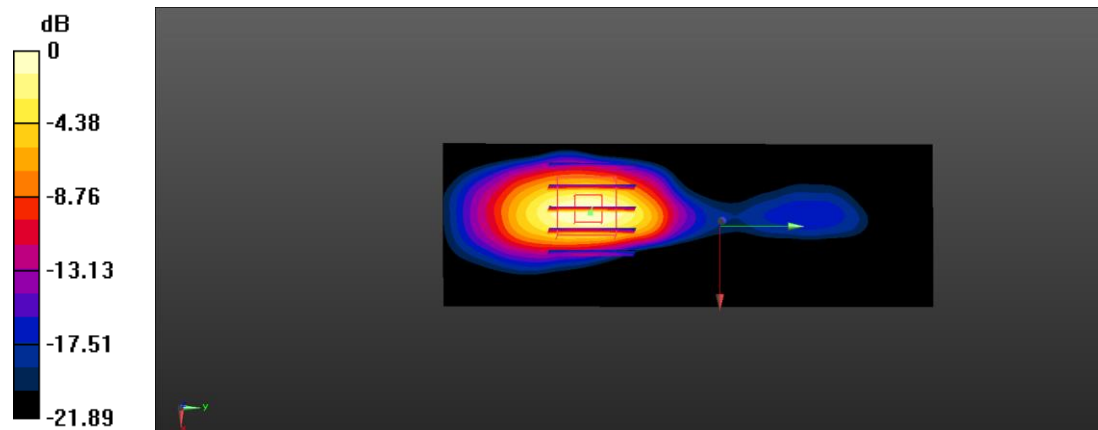
Communication System: UID 10934 - AAC, 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz);
 Frequency: 1745 MHz; Duty Cycle: 1:3.55877
 Medium parameters used (interpolated): $f = 1745$ MHz; $\sigma = 1.354$ S/m; $\epsilon_r = 41.106$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1745 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

NR Band n66 Body Right CP QPSK 40MHz 1RB 1offset 349000ch/Area Scan (41x121x1): Interpolated
 grid: dx=1.500 mm, dy=1.500 mm
 Maximum value of SAR (interpolated) = 1.39 W/kg

NR Band n66 Body Right CP QPSK 40MHz 1RB 1offset 349000ch/Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=8mm, dy=8mm, dz=5mm
 Reference Value = 4.279 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.761 W/kg; SAR(10 g) = 0.357 W/kg
 Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

EUT Type: Mobile Phone
 Ambient Temperature: 21.6°C
 Liquid Temperature: 21.5°C
 Test Date: 05/14/2025
 Band: NR TDD Band n77 Body SAR_Ant.F Close
 Plot No.: B10

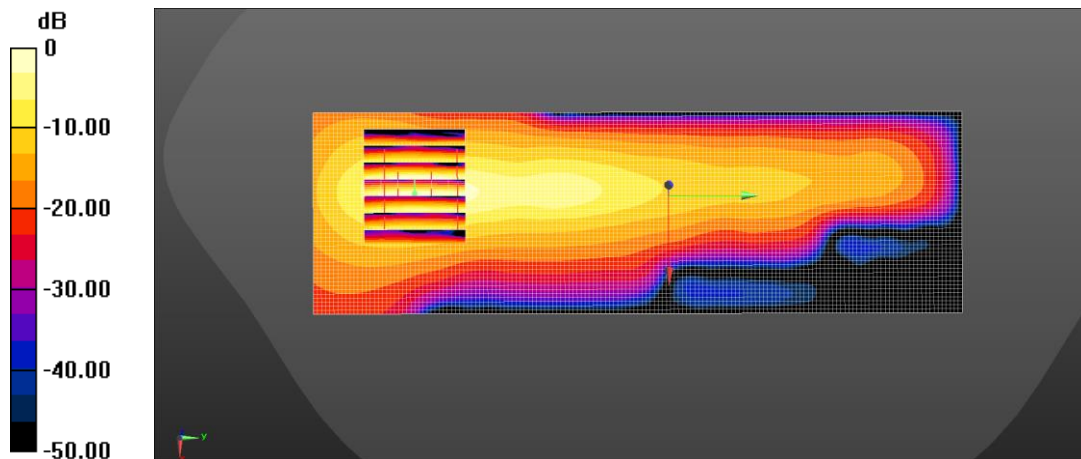
Communication System: UID 10803 - AAF, 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz); Frequency: 3930 MHz; Duty Cycle: 1:6.21441
 Medium parameters used: $f = 3930$ MHz; $\sigma = 3.323$ S/m; $\epsilon_r = 38.223$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.5, 5.95, 6.87) @ 3930 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

NR Band n77 Body Left CP QPSK 100MHz 1RB 1offset 662000ch/Area Scan (51x161x1): Interpolated
 grid: $dx=1.200$ mm, $dy=1.200$ mm
 Maximum value of SAR (interpolated) = 1.24 W/kg

NR Band n77 Body Left CP QPSK 100MHz 1RB 1offset 662000ch/Zoom Scan (7x7x8)/Cube 0:
 Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=4$ mm
 Reference Value = 4.754 V/m; Power Drift = 0.18 dB
 Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.202 W/kg
 Maximum value of SAR (measured) = 1.38 W/kg



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

Appendix C. – Dipole Verification Plots

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 22.0
 Test Date: 05/27/2025
 Band: LTE Band 13_Ant.A
 Plot No.: V1
 Measurement Report for Device, , , CW, Channel 0 (750.000 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, Head Simulating Liquid	,		CW, 0--	750.000, 0	10.22	0.864	43.0

Hardware Setup

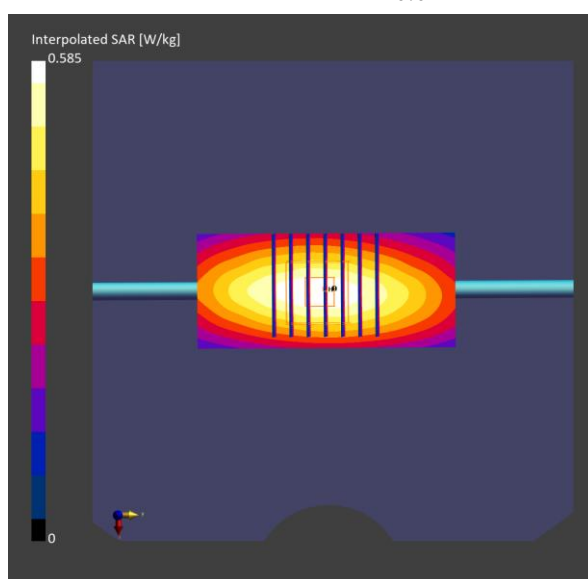
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7622, 2024-11-22	DAE4 Sn869, 2025-03-19

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.403	0.402
psSAR10g [W/Kg]	0.269	0.271
Power Drift [dB]	0.01	-0.01



Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 22.4
 Test Date: 05/19/2025
 Band: UMTS Band 4_Ant.I
 Plot No.: V2

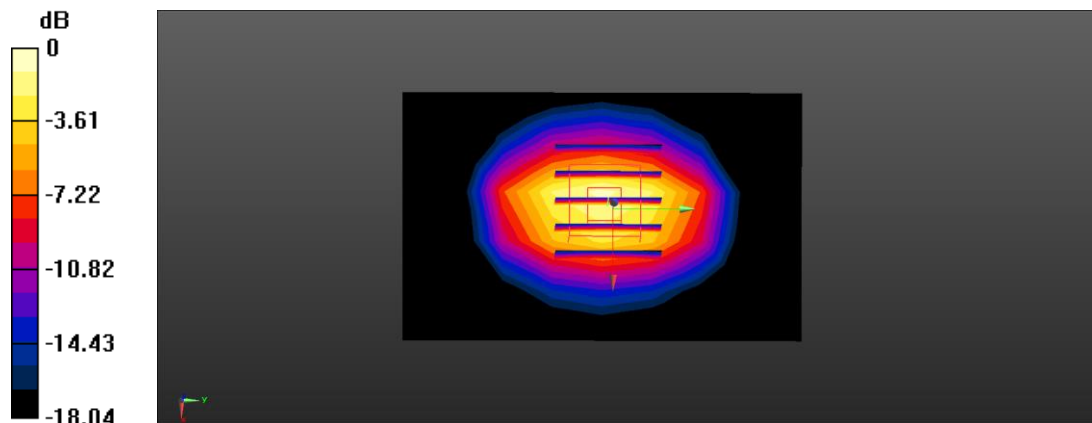
Communication System: UID 0, CW (0); Frequency: 1800 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1800 \text{ MHz}$; $\sigma = 1.423 \text{ S/m}$; $\epsilon_r = 41.362$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(8.33, 8.01, 8.64) @ 1800 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.45 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 46.29 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 3.39 W/kg
SAR(1 g) = 1.9 W/kg; SAR(10 g) = 0.985 W/kg
 Maximum value of SAR (measured) = 2.92 W/kg



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

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.3
 Test Date: 05/16/2025
 Band: UMTS Band 2_Ant.I
 Plot No.: V4

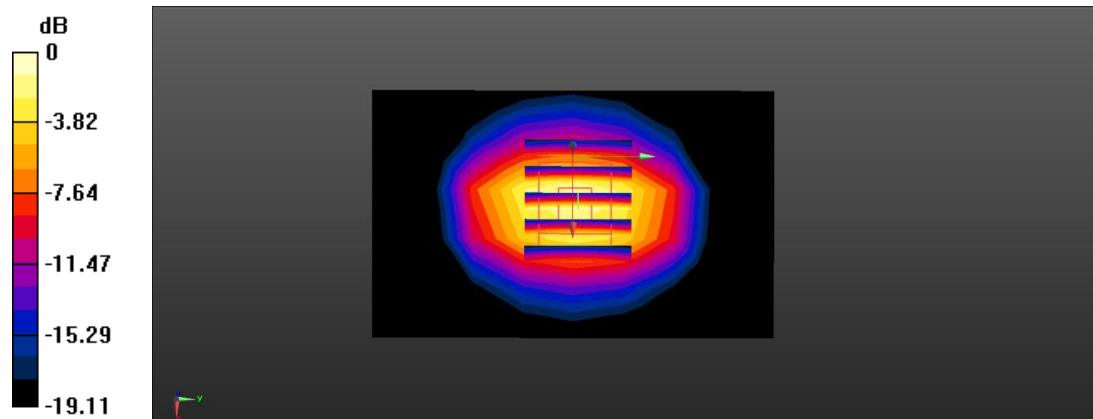
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.393 \text{ S/m}$; $\epsilon_r = 39.02$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1900 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (6x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.54 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 50.43 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.07 W/kg
 Maximum value of SAR (measured) = 3.27 W/kg



0 dB = 3.27 W/kg = 5.15 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.5
 Test Date: 05/15/2025
 Band: LTE Band 25, NR Band n25 Ant.I
 Plot No.: V5

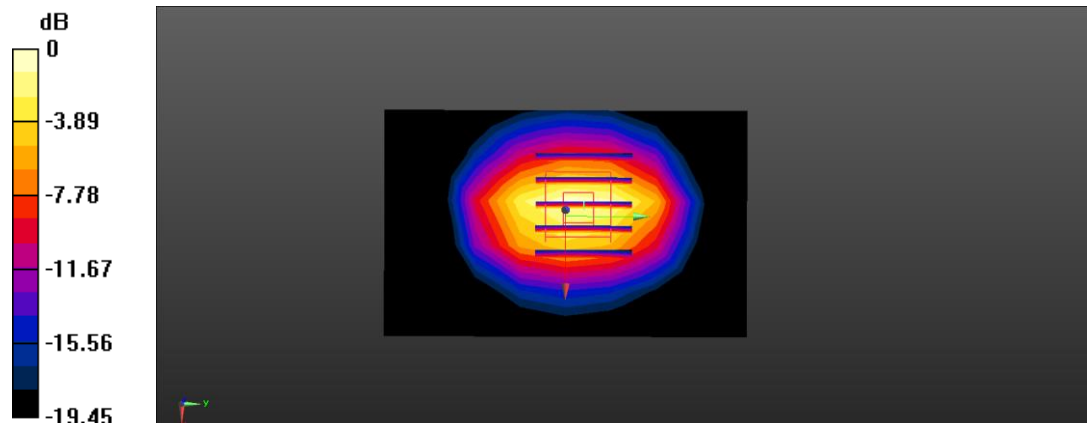
Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.388 \text{ S/m}$; $\epsilon_r = 39.169$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7732; ConvF(7.45, 7.16, 7.73) @ 1900 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2024-09-19
- Phantom: SAM_Front_2011217; Type: QD000P40CB; Serial: 1514
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

1900MHz Head Verification/Area Scan (6x9x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (measured) = 2.98 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 46.51 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 3.85 W/kg
SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.06 W/kg
 Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 3.24 W/kg = 5.11 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.1
 Test Date: 05/22/2025
 Band: LTE Band 41 Ant. I
 Plot No.: V6
 Measurement Report for Device, , , CW, Channel 0 (2600.000 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	6.55	2.00	39.1

Hardware Setup

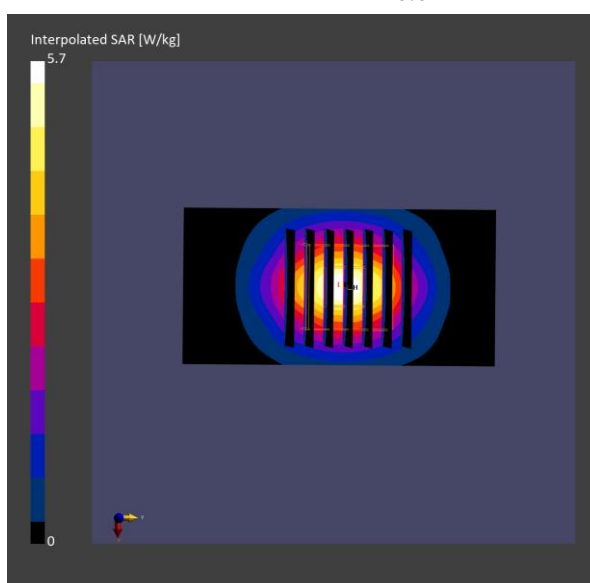
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

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
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.66	2.62
psSAR10g [W/Kg]	1.24	1.17
Power Drift [dB]	-0.04	0.04



Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.9
 Test Date: 05/23/2025
 Band: NR Band n41
 Plot No.: V7
 Measurement Report for Device, , , CW, Channel 0 (2600.000 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, Head Simulating Liquid	,		CW, 0--	2600.000, 0	6.55	1.99	39.0

Hardware Setup

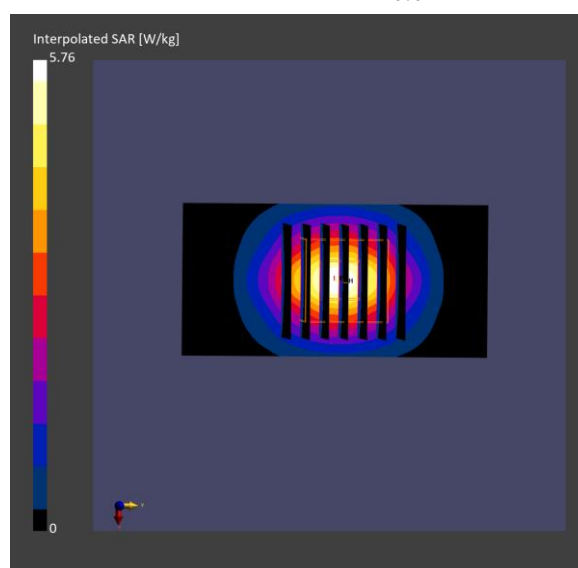
Phantom	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt)	EX3DV4 - SN7370, 2024-08-22	DAE4 Sn1417, 2025-02-18

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
Grading Ratio	N/A	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	2.64	2.62
psSAR10g [W/Kg]	1.23	1.17
Power Drift [dB]	0.02	0.02



Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.5
 Test Date: 05/14/2025
 Band: NR Band n77 Ant.F
 Plot No.: V8

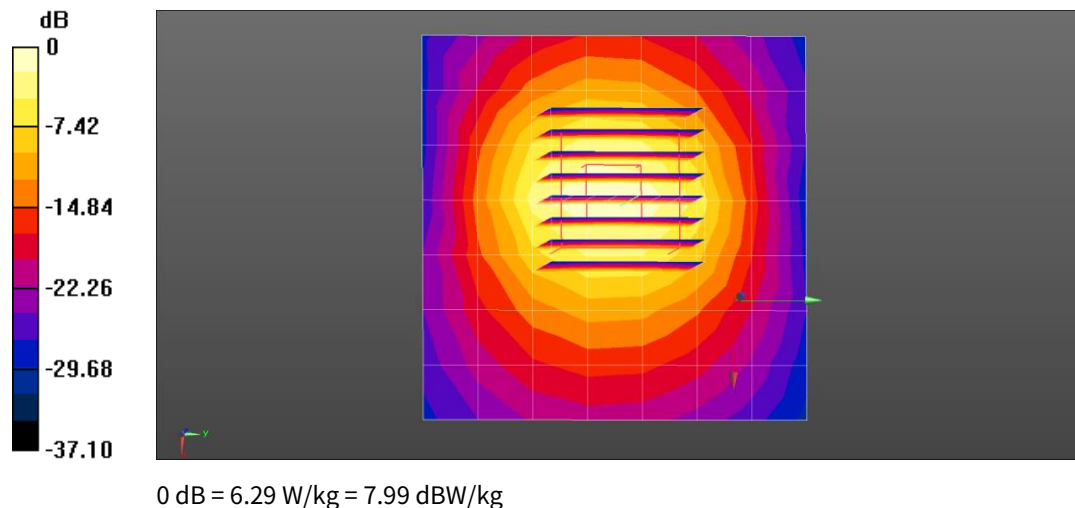
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.909$ S/m; $\epsilon_r = 38.855$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.68, 6.12, 7.06) @ 3500 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3500MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (measured) = 6.15 W/kg

3500MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 40.62 V/m; Power Drift = 0.10 dB
 Peak SAR (extrapolated) = 8.68 W/kg
SAR(1 g) = 3.43 W/kg; SAR(10 g) = 1.31 W/kg
 Maximum value of SAR (measured) = 6.29 W/kg



Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.4
 Test Date: 05/13/2025
 Band: NR Band n77 SRS
 Plot No.: V9

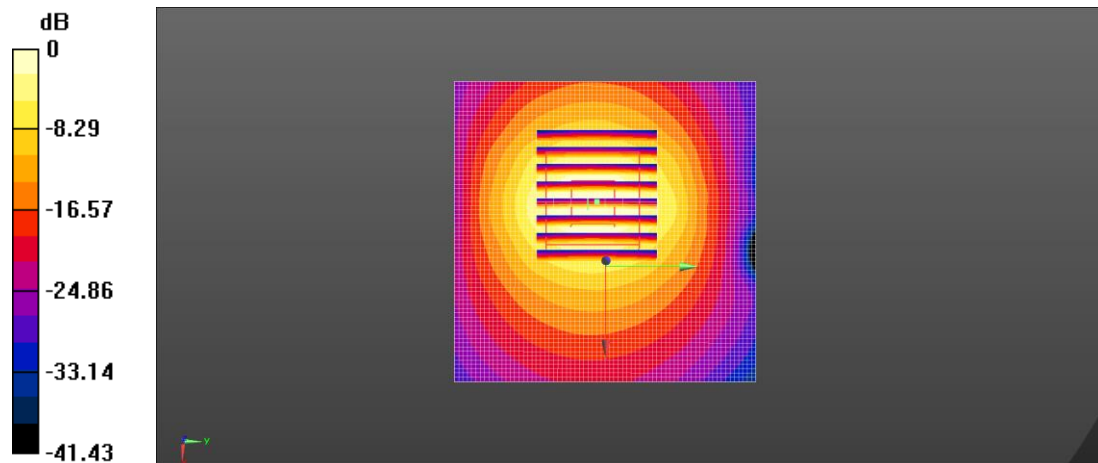
Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3500 \text{ MHz}$; $\sigma = 2.948 \text{ S/m}$; $\epsilon_r = 38.69$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.68, 6.12, 7.06) @ 3500 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3500MHz Head Verification/Area Scan (71x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 6.44 W/kg

3500MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 38.86 V/m; Power Drift = 0.19 dB
 Peak SAR (extrapolated) = 8.64 W/kg
SAR(1 g) = 3.28 W/kg; SAR(10 g) = 1.23 W/kg
 Maximum value of SAR (measured) = 6.27 W/kg



0 dB = 6.27 W/kg = 7.97 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.5
 Test Date: 05/14/2025
 Band: NR Band n77 Ant.F
 Plot No.: V10

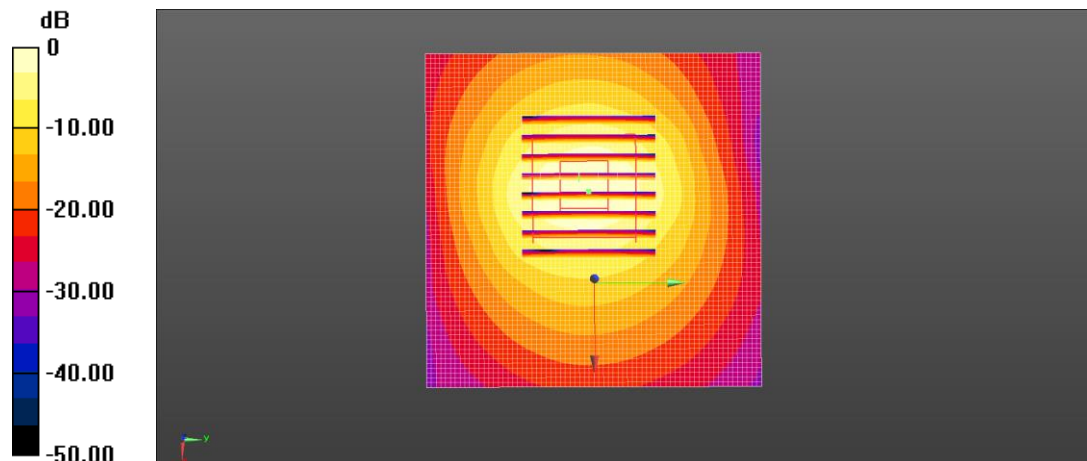
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.1 \text{ S/m}$; $\epsilon_r = 38.512$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.63, 6.07, 7.01) @ 3700 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3700MHz Head Verification/Area Scan (71x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 6.45 W/kg

3700MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 38.09 V/m; Power Drift = 0.11 dB
 Peak SAR (extrapolated) = 8.65 W/kg
SAR(1 g) = 3.13 W/kg; SAR(10 g) = 1.14 W/kg
 Maximum value of SAR (measured) = 6.13 W/kg



0 dB = 6.13 W/kg = 7.87 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.4
 Test Date: 05/13/2025
 Band: NR Band n77 SRS
 Plot No.: V11

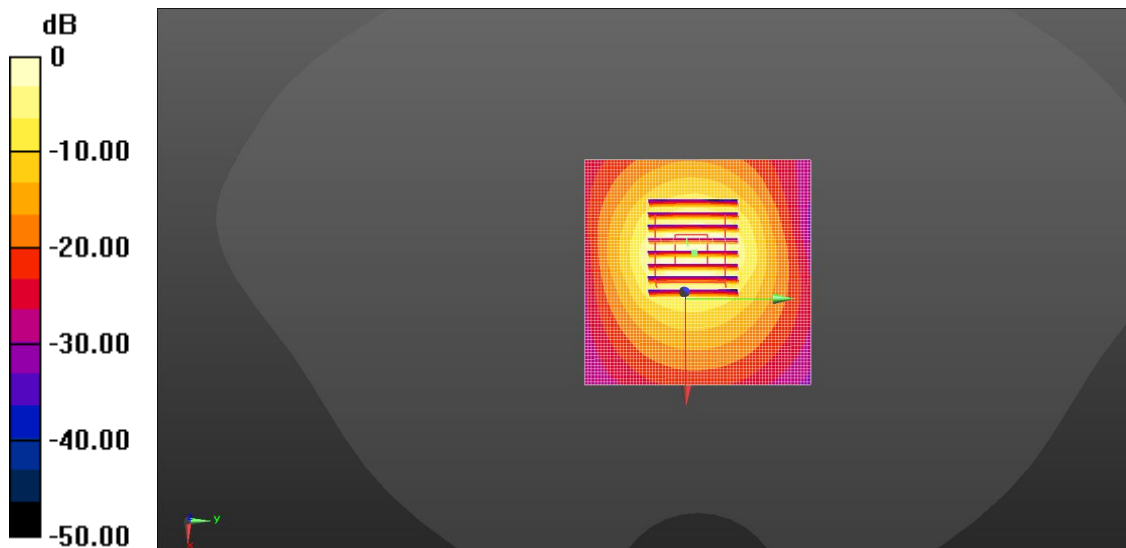
Communication System: UID 0, CW (0); Frequency: 3700 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3700 \text{ MHz}$; $\sigma = 3.14 \text{ S/m}$; $\epsilon_r = 38.307$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.63, 6.07, 7.01) @ 3700 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3700MHz Head Verification/Area Scan (71x71x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$
 Maximum value of SAR (interpolated) = 6.52 W/kg

3700MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 38.64 V/m; Power Drift = 0.17 dB
 Peak SAR (extrapolated) = 8.74 W/kg
SAR(1 g) = 3.18 W/kg; SAR(10 g) = 1.16 W/kg
 Maximum value of SAR (measured) = 6.18 W/kg



0 dB = 6.18 W/kg = 7.91 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.5
 Test Date: 05/14/2025
 Band: NR Band n77 Ant.F
 Plot No.: V12

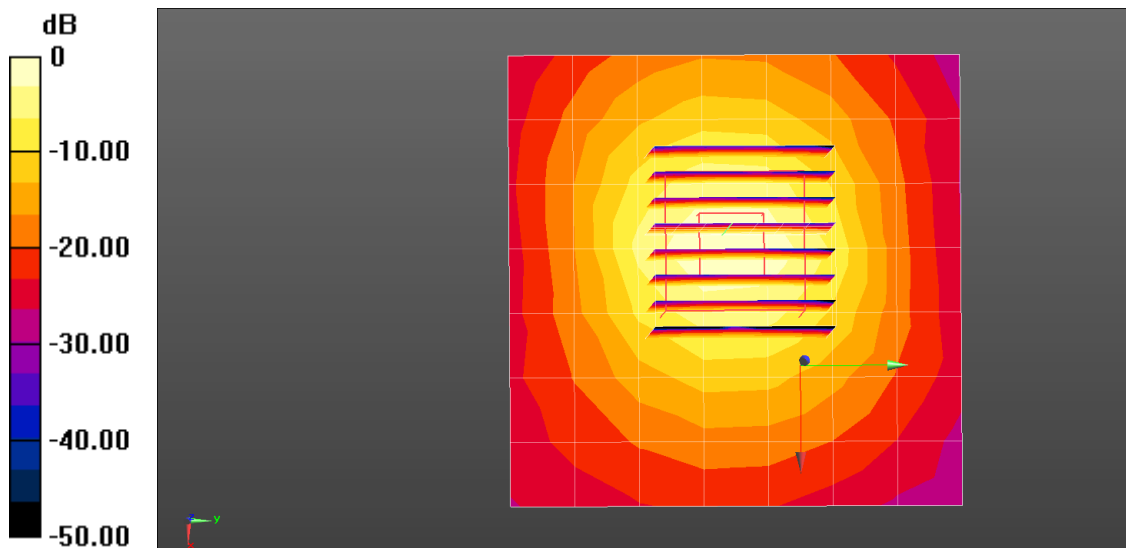
Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.293 \text{ S/m}$; $\epsilon_r = 38.247$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.5, 5.95, 6.87) @ 3900 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3900MHz Head Verification/Area Scan (8x8x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 6.01 W/kg

3900MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 41.18 V/m; Power Drift = 0.12 dB
 Peak SAR (extrapolated) = 9.18 W/kg
SAR(1 g) = 3.27 W/kg; SAR(10 g) = 1.15 W/kg
 Maximum value of SAR (measured) = 6.45 W/kg



0 dB = 6.45 W/kg = 8.10 dBW/kg

Test Laboratory: HCT CO., LTD
 Input Power: 0.05W
 Liquid Temperature: 21.4
 Test Date: 05/13/2025
 Band: NR Band n77 SRS
 Plot No.: V13

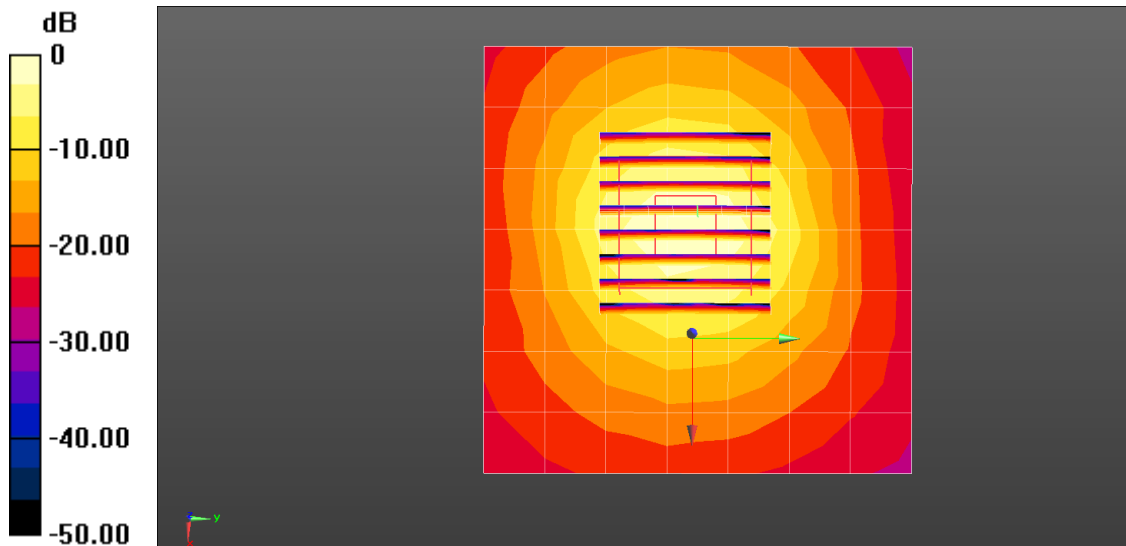
Communication System: UID 0, CW (0); Frequency: 3900 MHz; Duty Cycle: 1:1
 Medium parameters used: $f = 3900 \text{ MHz}$; $\sigma = 3.33 \text{ S/m}$; $\epsilon_r = 38.067$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(6.5, 5.95, 6.87) @ 3900 MHz; Calibrated: 2024-06-19
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2025-04-23
- 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 (7501)

3900MHz Head Verification/Area Scan (8x8x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$
 Maximum value of SAR (measured) = 6.17 W/kg

3900MHz Head Verification/Zoom Scan (8x8x8)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$
 Reference Value = 38.40 V/m; Power Drift = 0.13 dB
 Peak SAR (extrapolated) = 9.01 W/kg
SAR(1 g) = 3.09 W/kg; SAR(10 g) = 1.07 W/kg
 Maximum value of SAR (measured) = 6.07 W/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 bactericide 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 (MHz)									
	750		835		1 900		2 450 – 2 700		3500 - 5 800	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	41.1	51.7	40.45	53.06	54.9	70.17	71.88	73.2	65.52	78.66
Salt (NaCl)	1.4	0.9	1.45	0.94	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
HEC	0.2	0	1.0	1.0	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
Triton X-100	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	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 KDB 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
7	7622	EX3DV4	Head	750	1122	2025-05-26	43.0	0.86	PASS	PASS	PASS	N/A	N/A	N/A
15	7732	EX3DV4	Head	1750	2d007	2024-07-01	40.2	1.39	PASS	PASS	PASS	N/A	N/A	N/A
15	7732	EX3DV4	Head	1900	5d061	2025-01-28	39.8	1.39	PASS	PASS	PASS	N/A	N/A	N/A
6	7370	EX3DV4	Head	2600	1015	2024-08-23	39.2	1.98	PASS	PASS	PASS	TDD	PASS	N/A
6	7370	EX3DV4	Head	2600	1015	2024-08-23	39.2	1.98	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	3500	1040	2025-01-24	37.6	2.93	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	3700	1105	2024-10-03	37.8	3.15	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	3900	1086	2024-06-30	37.4	3.39	PASS	PASS	PASS	N/A	N/A	N/A

SAR System Validation Summary 1g

Note;

All measurement was 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.