Appendix B. – SAR Test Plots

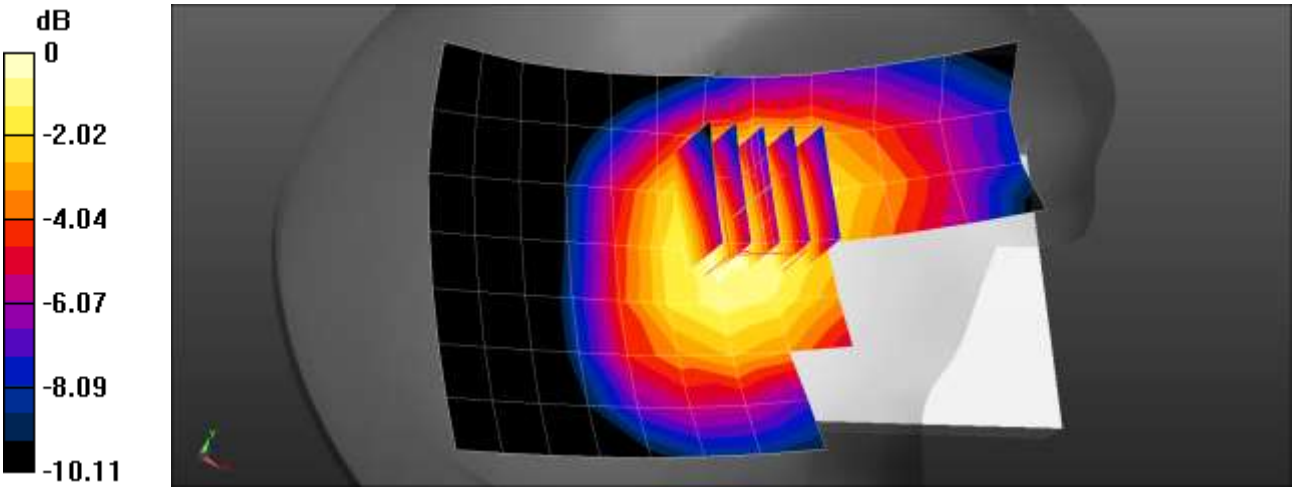
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 ℃
Ambient Temperature: 19.2 ℃
Test Date: 03/29/2022
Plot No.: 1
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07491
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.894 S/m; ε_r = 42.04; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 4Tx Head Right Touch 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.326 W/kg

GSM850 4Tx Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.641 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.375 W/kg
SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.218 W/kg
Maximum value of SAR (measured) = 0.344 W/kg



0 dB = 0.344 W/kg = -4.63 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	03/29/2022
Plot No.:	2

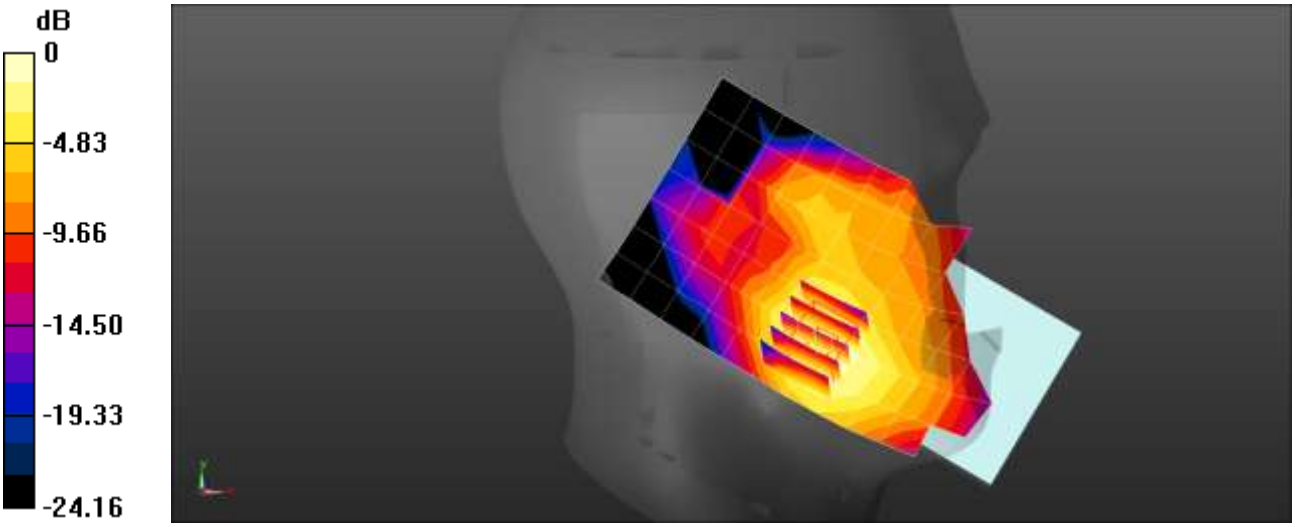
Communication System: UID 0, GSM 1900 3Tx (0); Frequency: 1880 MHz;Duty Cycle: 1:2.77013
Medium parameters used: f = 1880 MHz; σ = 1.394 S/m; ε_r = 40.575; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 3Tx Head Left Touch 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.152 W/kg

GSM 1900 3Tx Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.878 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.185 W/kg
SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.060 W/kg
Maximum value of SAR (measured) = 0.153 W/kg



0 dB = 0.153 W/kg = -8.15 dBW/kg

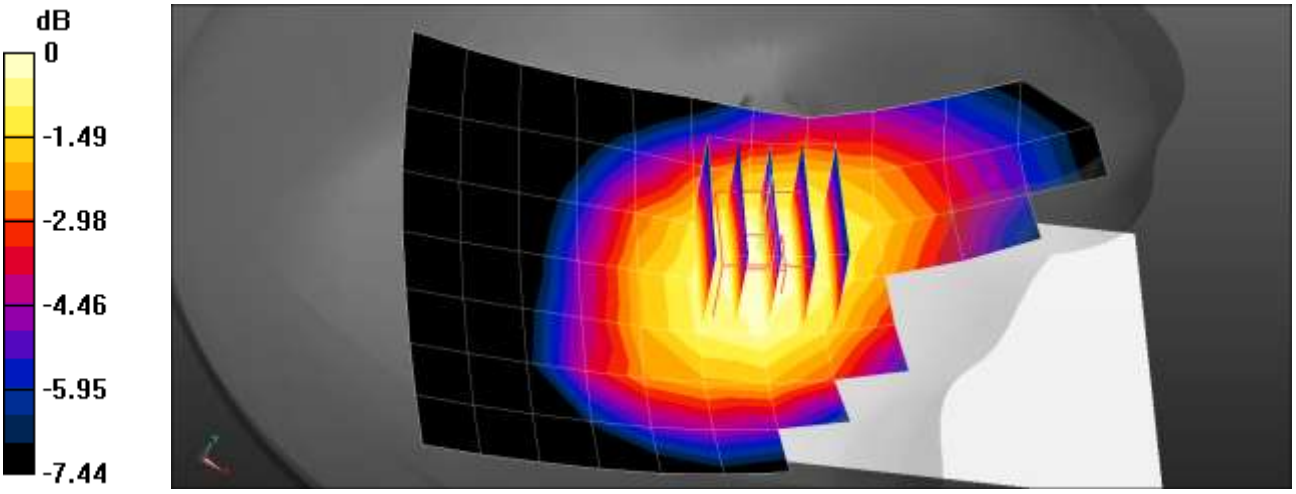
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.9 ℃
Ambient Temperature: 22.0 ℃
Test Date: 04/25/2022
Plot No.: 3
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.932 S/m; ε_r = 40.603; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.75, 9.75, 9.75) @ 836.6 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V5.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 Head Right Touch 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.214 W/kg

UMTS Band 5 Head Right Touch 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.578 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.223 W/kg
SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.141 W/kg
Maximum value of SAR (measured) = 0.208 W/kg



0 dB = 0.208 W/kg = -6.82 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	03/31/2022
Plot No.:	4

Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.342 S/m; ε_r = 41.554; ρ = 1000 kg/m^3
Phantom section: Left Section

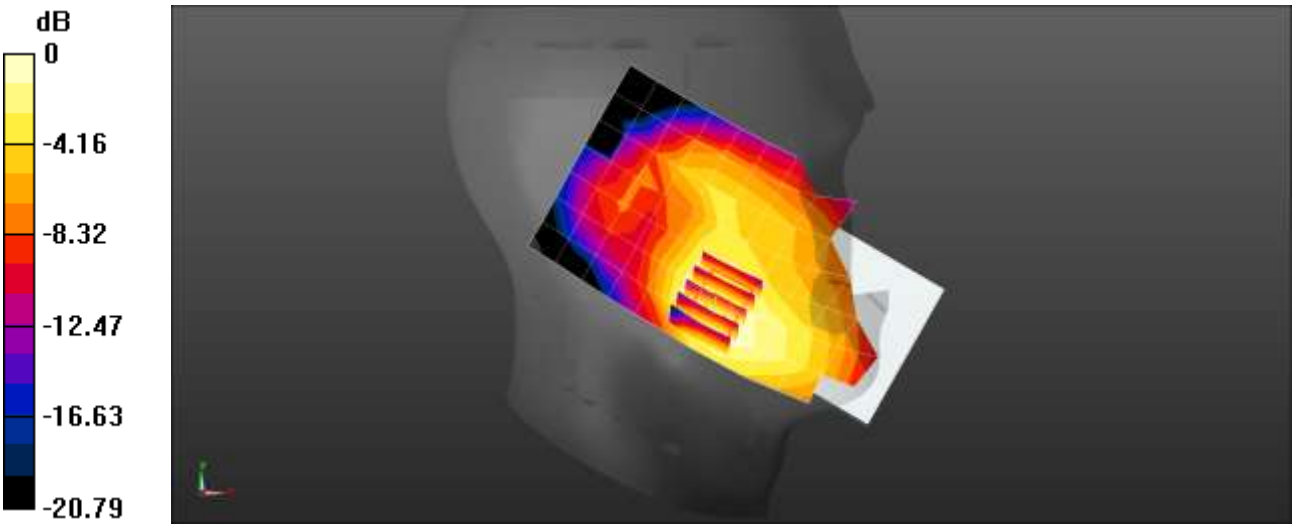
DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1732.4 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.178 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.004 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.219 W/kg
SAR(1 g) = 0.137 W/kg; SAR(10 g) = 0.087 W/kg
Maximum value of SAR (measured) = 0.188 W/kg



0 dB = 0.188 W/kg = -7.26 dBW/kg

Test Laboratory: HCT CO., LTD

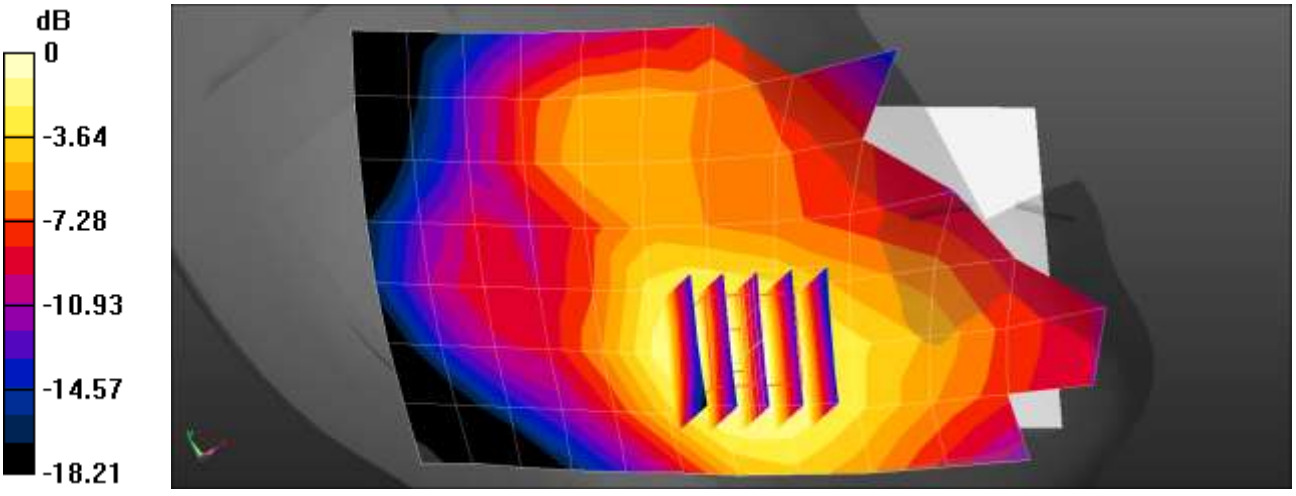
EUT Type: Mobile Phone
Liquid Temperature: 21.9 ℃
Ambient Temperature: 22.0 ℃
Test Date: 04/25/2022
Plot No.: 5
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.405 S/m; ε_r = 40.784; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 2 Head Left Touch 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.271 W/kg

UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.761 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.326 W/kg
SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.111 W/kg
Maximum value of SAR (measured) = 0.274 W/kg



0 dB = 0.274 W/kg = -5.62 dBW/kg

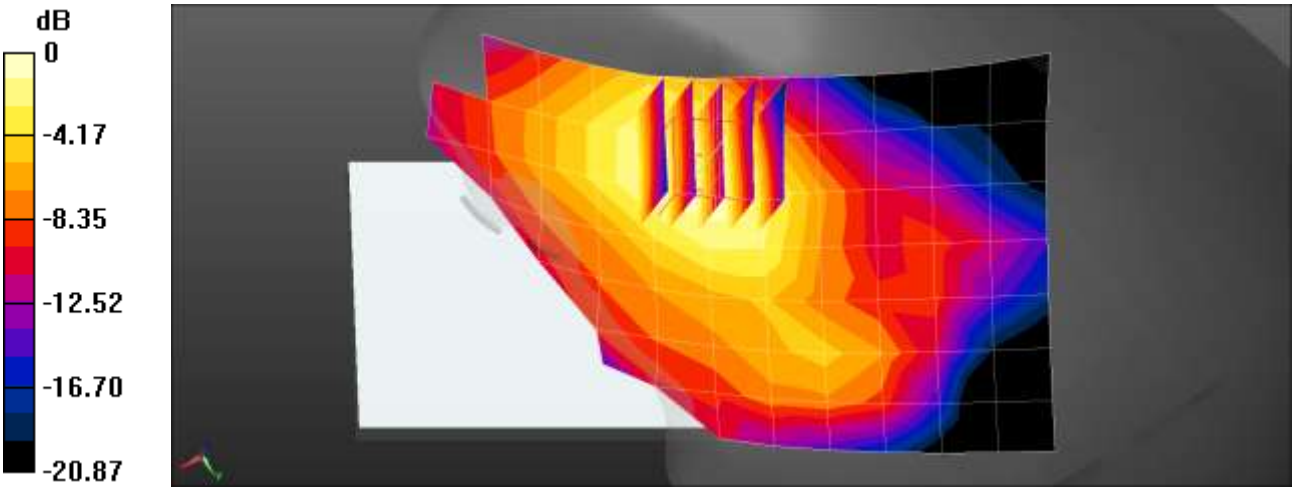
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8 ℃
Ambient Temperature: 20.9 ℃
Test Date: 04/01/2022
Plot No.: 6
Communication System: UID 0, LTE Band2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.416 S/m; ε_r = 41.309; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 2 Head Left Touch QPSK 20MHz 1RB 0offset 19100ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.322 W/kg

LTE Band 2 Head Left Touch QPSK 20MHz 1RB 0offset 19100ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.318 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.384 W/kg
SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.131 W/kg
Maximum value of SAR (measured) = 0.324 W/kg



0 dB = 0.324 W/kg = -4.89 dBW/kg

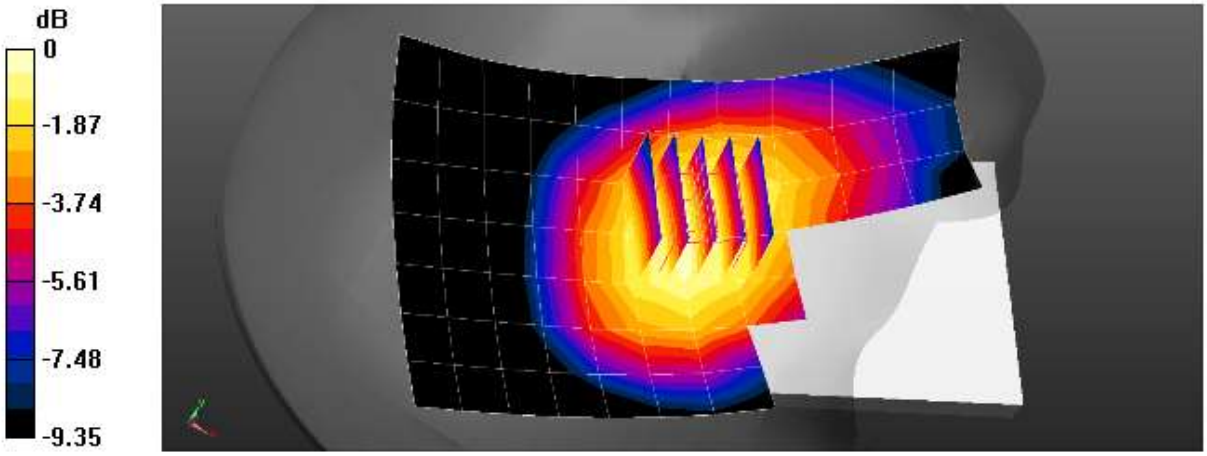
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.2 ℃
Ambient Temperature: 21.3 ℃
Test Date: 03/31/2022
Plot No.: 7
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.928 S/m; ε_r = 40.584; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 5 Head Right Touch QPSK 10MHz 1RB 49offset 20525ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.340 W/kg

LTE Band 5 Head Right Touch QPSK 10MHz 1RB 49offset 20525ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.363 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.376 W/kg
SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.218 W/kg
Maximum value of SAR (measured) = 0.342 W/kg



0 dB = 0.342 W/kg = -4.66 dBW/kg

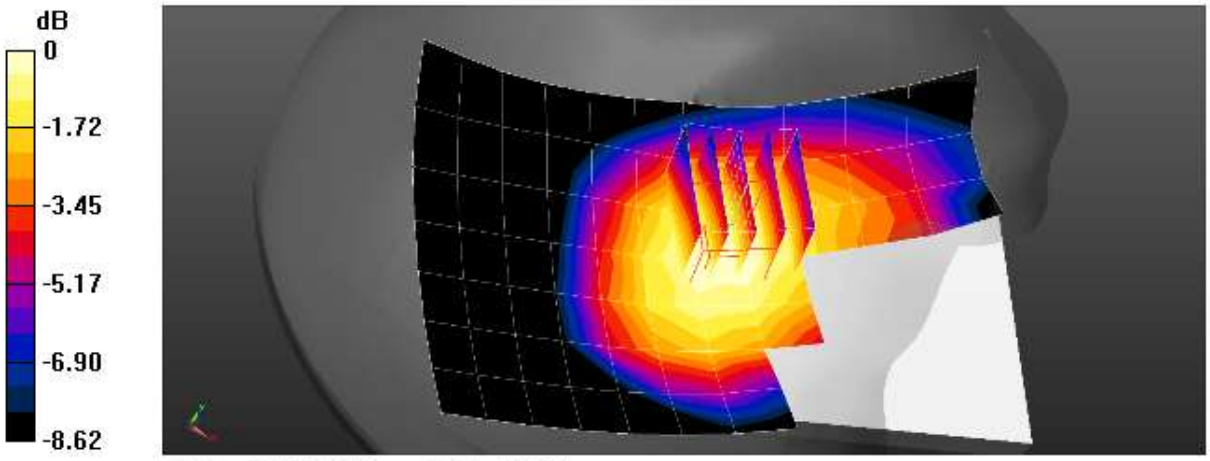
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 ℃
Ambient Temperature: 20.1 ℃
Test Date: 04/01/2022
Plot No.: 8
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.879 S/m; ε_r = 43.206; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(10.15, 10.15, 10.15) @ 707.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.127 W/kg

LTE Band 12 Head Right Touch QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.704 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.140 W/kg
SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.092 W/kg
Maximum value of SAR (measured) = 0.131 W/kg



0 dB = 0.131 W/kg = -8.83 dBW/kg

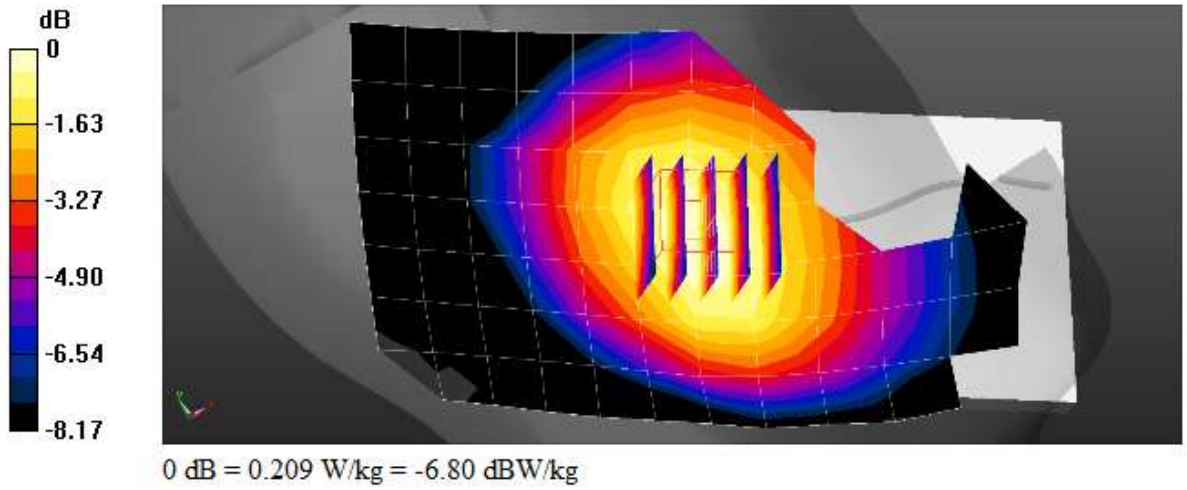
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.2 ℃
Ambient Temperature: 20.3 ℃
Test Date: 04/06/2022
Plot No.: 9
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.922 S/m; ε_r = 40.637; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 831.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 26 Head Left Touch QPSK 15MHz 1RB 74offset 26865ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.204 W/kg

LTE Band 26 Head Left Touch QPSK 15MHz 1RB 74offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.854 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.232 W/kg
SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.209 W/kg



0 dB = 0.209 W/kg = -6.80 dBW/kg

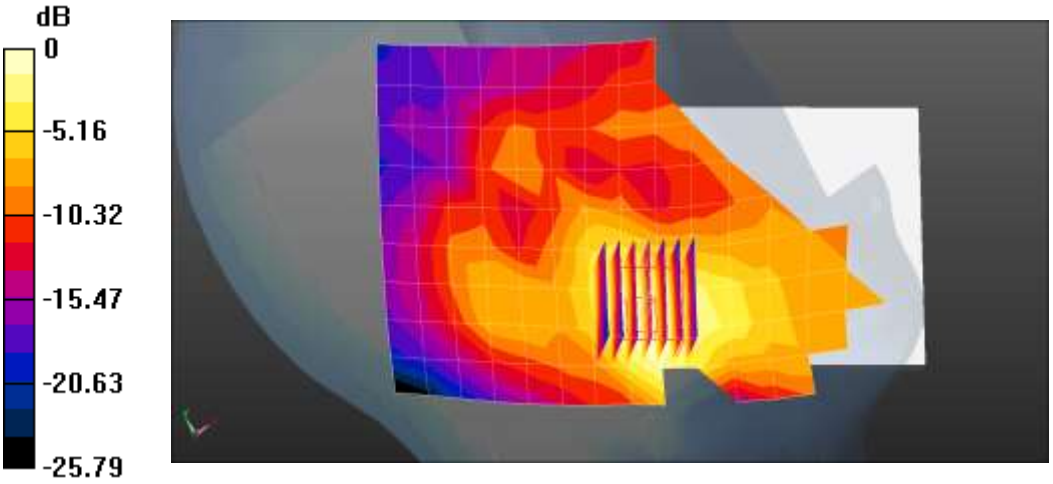
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8 ℃
Ambient Temperature: 20.9 ℃
Test Date: 03/21/2022
Plot No.: 10
Communication System: UID 0, LTE Band 41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58016
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.971 S/m; ε_r = 38.015; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2593 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 41 Head Left Touch QPSK 20MHz 1RB 0offset 40620ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.204 W/kg

LTE Band 41 Head Left Touch QPSK 20MHz 1RB 0offset 40620ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.455 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.327 W/kg
SAR(1 g) = 0.181 W/kg; SAR(10 g) = 0.093 W/kg
Maximum value of SAR (measured) = 0.229 W/kg



0 dB = 0.229 W/kg = -6.40 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	04/05/2022
Plot No.:	11

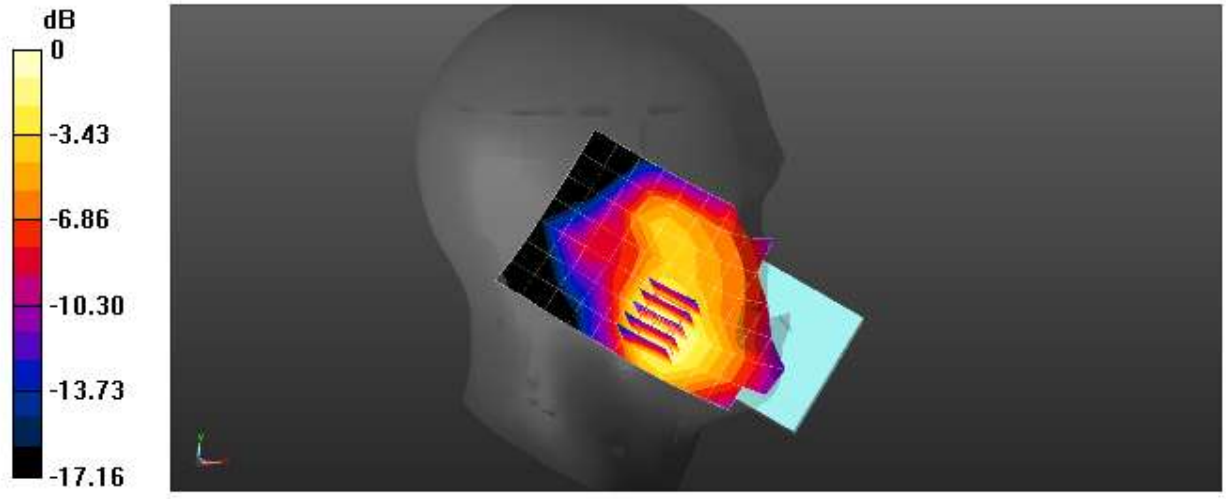
Communication System: UID 0, LTE Band66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.355 S/m; ε_r = 40.596; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 99offset 132322ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.243 W/kg

LTE Band 66 Head Left Touch QPSK 20MHz 1RB 99offset 132322ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.967 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.287 W/kg
SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.106 W/kg
Maximum value of SAR (measured) = 0.245 W/kg



0 dB = 0.245 W/kg = -6.11 dBW/kg

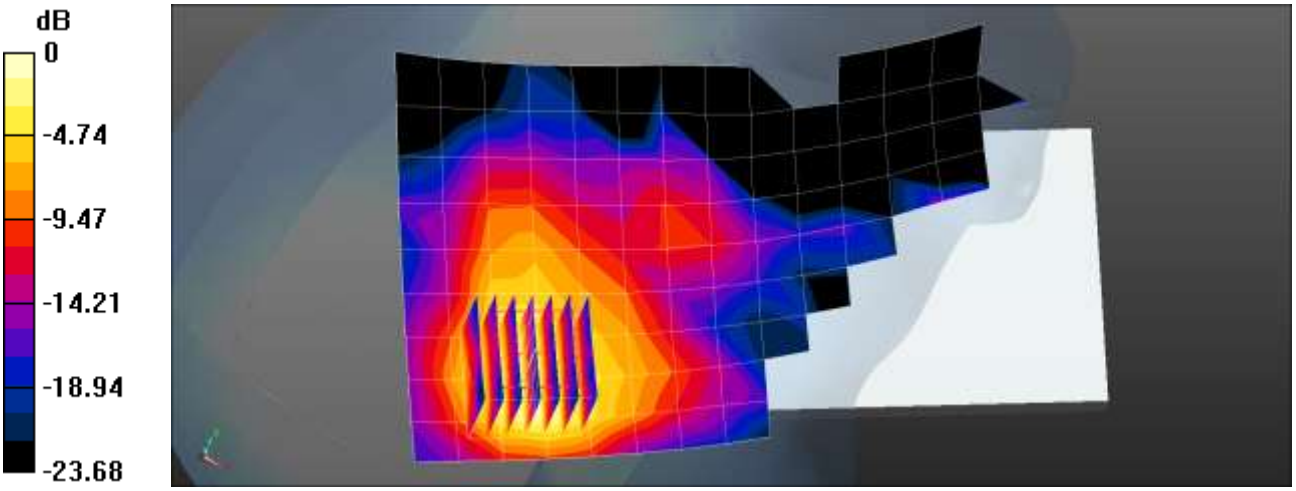
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 ℃
Ambient Temperature: 19.2 ℃
Test Date: 03/29/2022
Plot No.: 12
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.815 S/m; ε_r = 39.292; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2437 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b Head Right Touch 1Mbps 6ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.103 W/kg

802.11b Head Right Touch 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.352 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.206 W/kg
SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.043 W/kg
Maximum value of SAR (measured) = 0.121 W/kg



0 dB = 0.121 W/kg = -9.17 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	19.4 ℃
Ambient Temperature:	19.5 ℃
Test Date:	04/12/2022
Plot No.:	13

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5775 MHz;Duty Cycle: 1:1

Medium parameters used (interpolated): f = 5775 MHz; σ = 5.214 S/m; ε_r = 35.727; ρ = 1000 kg/m^3

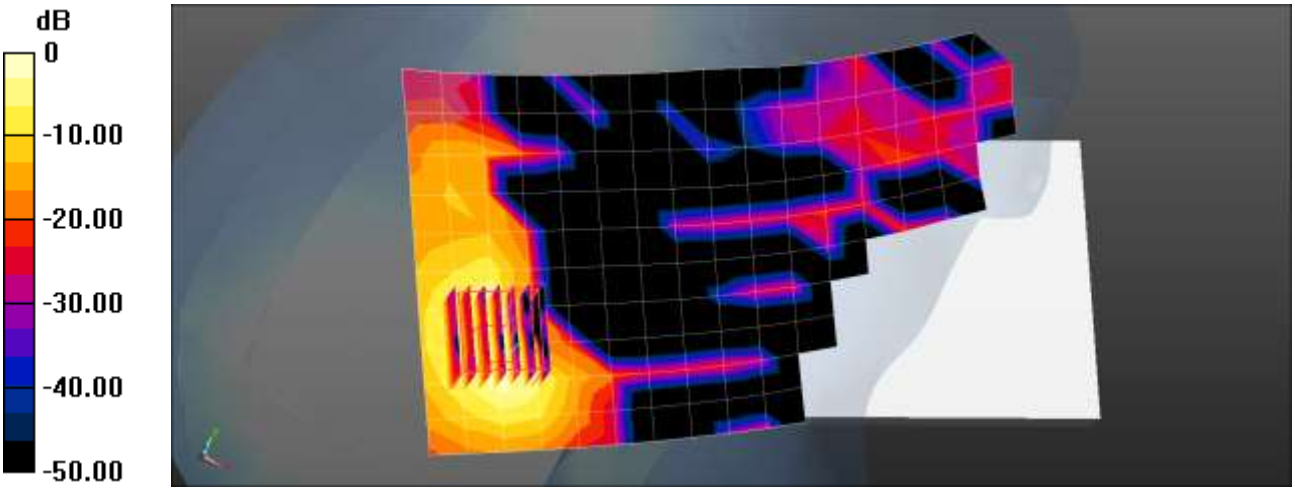
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5, 5, 5) @ 5775 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

802.11ac80 Head Right Tilt MCS0 155ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.22 W/kg

802.11ac80 Head Right Tilt MCS0 155ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.593 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 2.28 W/kg
SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.138 W/kg
Maximum value of SAR (measured) = 1.23 W/kg



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

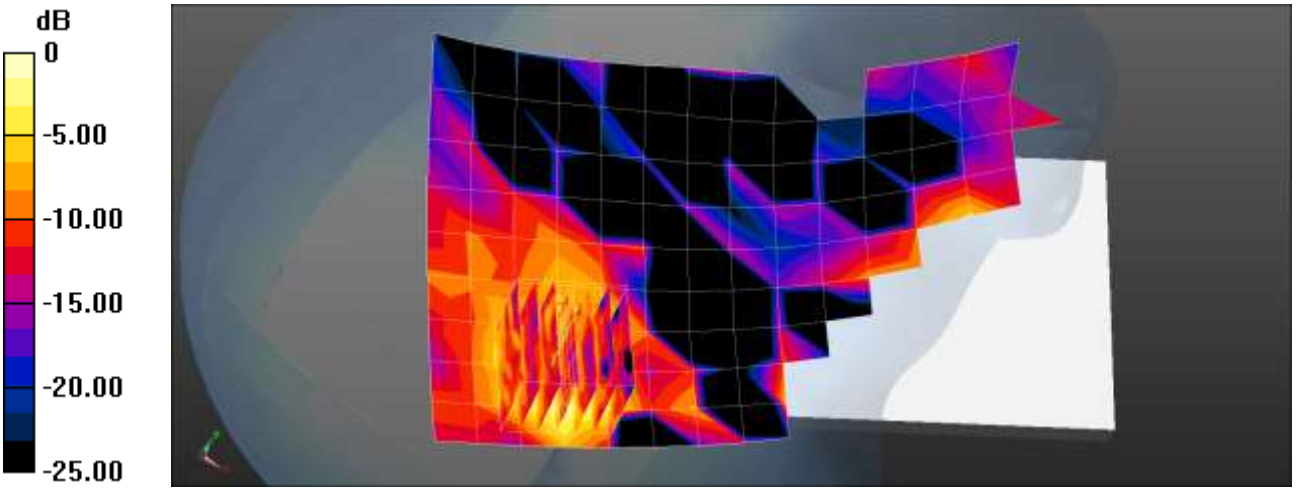
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.5 ℃
Ambient Temperature: 19.6 ℃
Test Date: 03/30/2022
Plot No.: 14
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.302
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.821 S/m; ε_r = 39.29; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2441 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth Head Right Touch DH5 39ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0127 W/kg

Bluetooth Head Right Touch DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.5690 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.0240 W/kg
SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00449 W/kg
Maximum value of SAR (measured) = 0.0150 W/kg



0 dB = 0.0150 W/kg = -18.24 dBW/kg

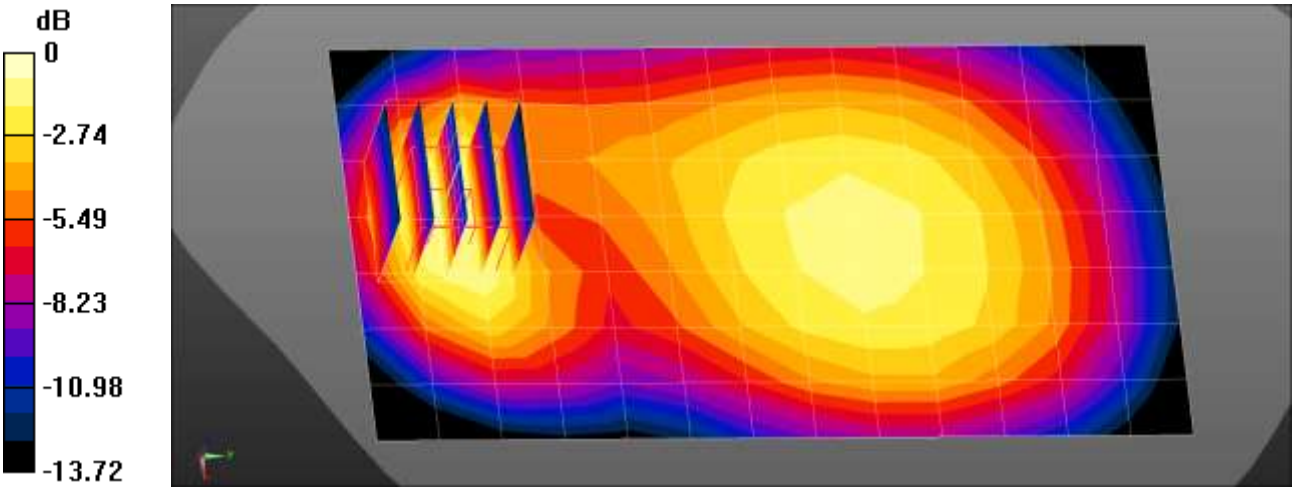
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 ℃
Ambient Temperature: 19.2 ℃
Test Date: 03/29/2022
Plot No.: 15
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07491
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.894 S/m; ε_r = 42.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 4Tx Bodyworn Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.402 W/kg

GSM850 4Tx Bodyworn Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.07 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.588 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.207 W/kg
Maximum value of SAR (measured) = 0.497 W/kg



0 dB = 0.497 W/kg = -3.04 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	03/29/2022
Plot No.:	16

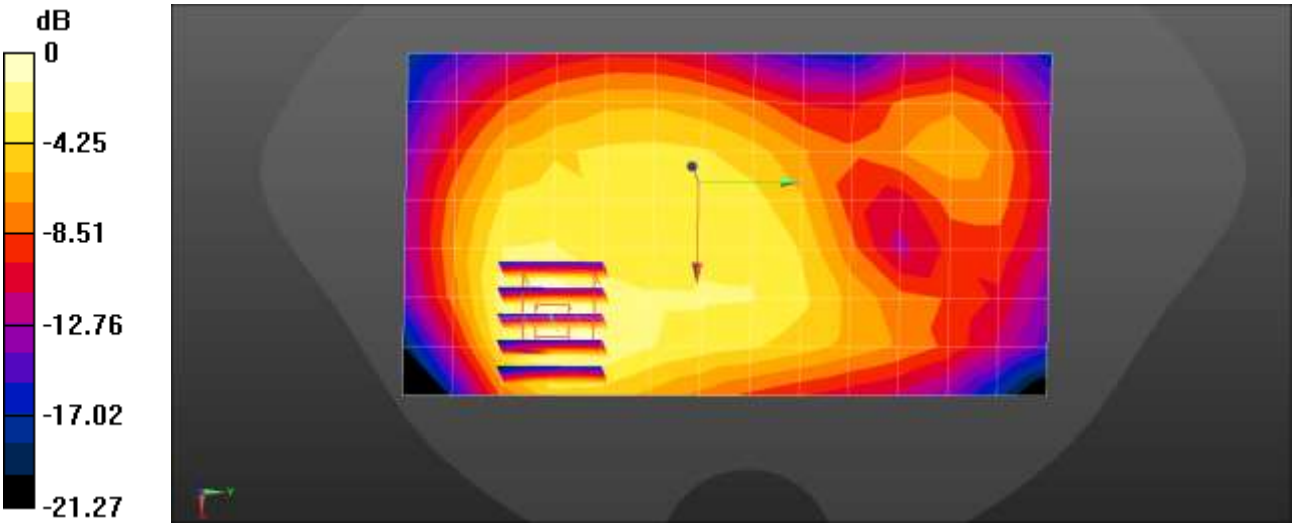
Communication System: UID 0, GSM 1900 3Tx (0); Frequency: 1880 MHz;Duty Cycle: 1:2.77013
Medium parameters used: f = 1880 MHz; σ = 1.394 S/m; ε_r = 40.575; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 3Tx Bodyworn Rear 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.244 W/kg

GSM 1900 3Tx Bodyworn Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.348 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.324 W/kg
SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.267 W/kg



0 dB = 0.267 W/kg = -5.73 dBW/kg

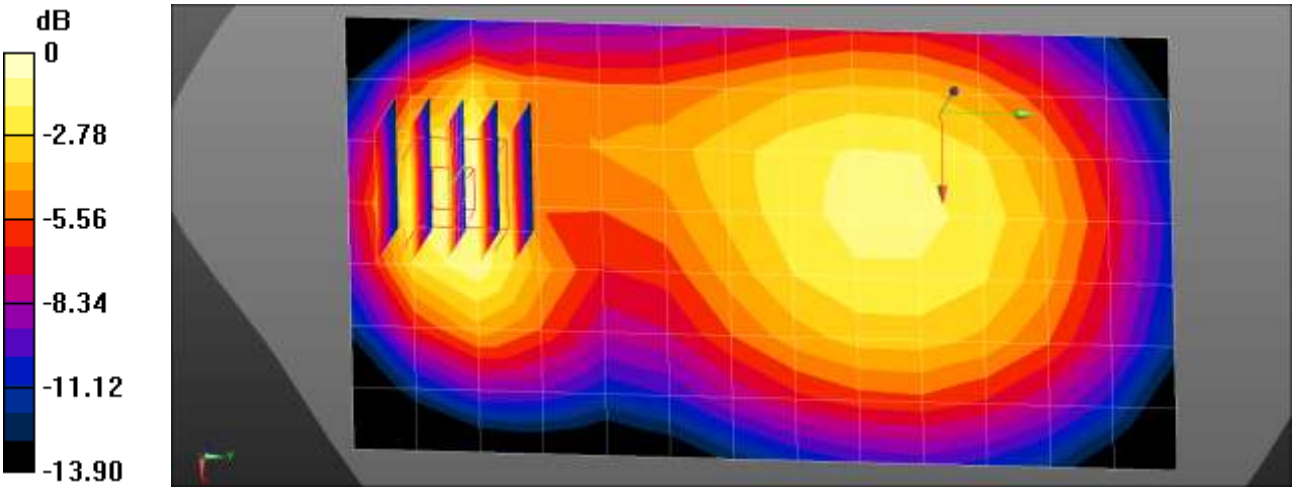
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.7 ℃
Ambient Temperature: 20.8 ℃
Test Date: 03/30/2022
Plot No.: 17
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.885 S/m; ε_r = 41.738; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 BodyWorn Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.326 W/kg

UMTS Band 5 BodyWorn Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.64 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.460 W/kg
SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.160 W/kg
Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.388 W/kg = -4.11 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	03/31/2022
Plot No.:	18

Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.342 S/m; ε_r = 41.554; ρ = 1000 kg/m^3
Phantom section: Flat Section

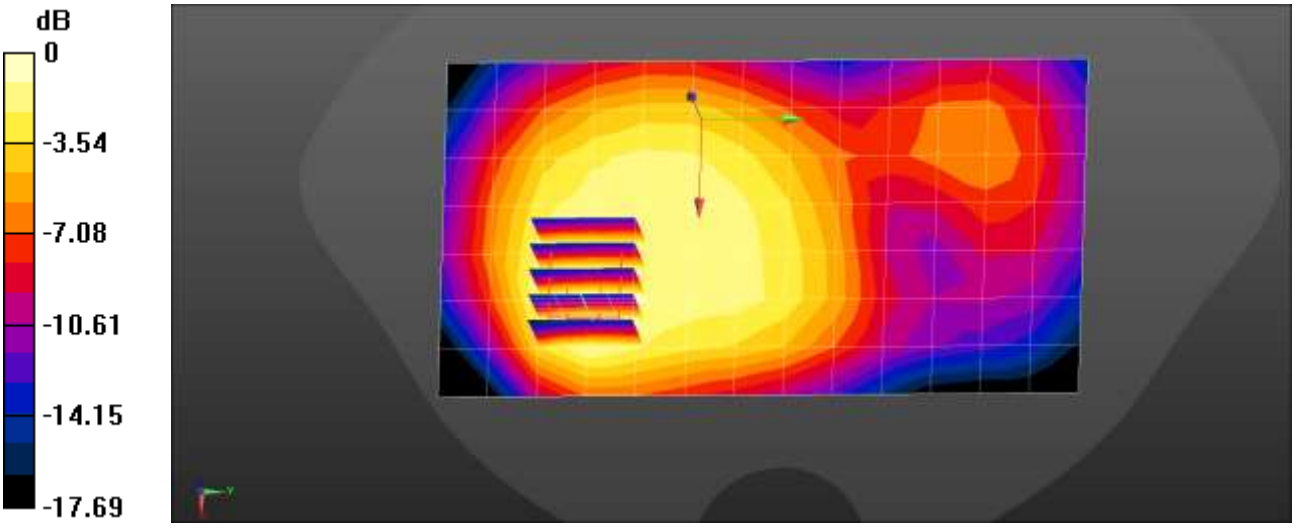
DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1732.4 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 4 Bodyworn Rear 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.514 W/kg

UMTS Band 4 Bodyworn Rear 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.80 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.630 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.205 W/kg
Maximum value of SAR (measured) = 0.509 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	03/30/2022
Plot No.:	19

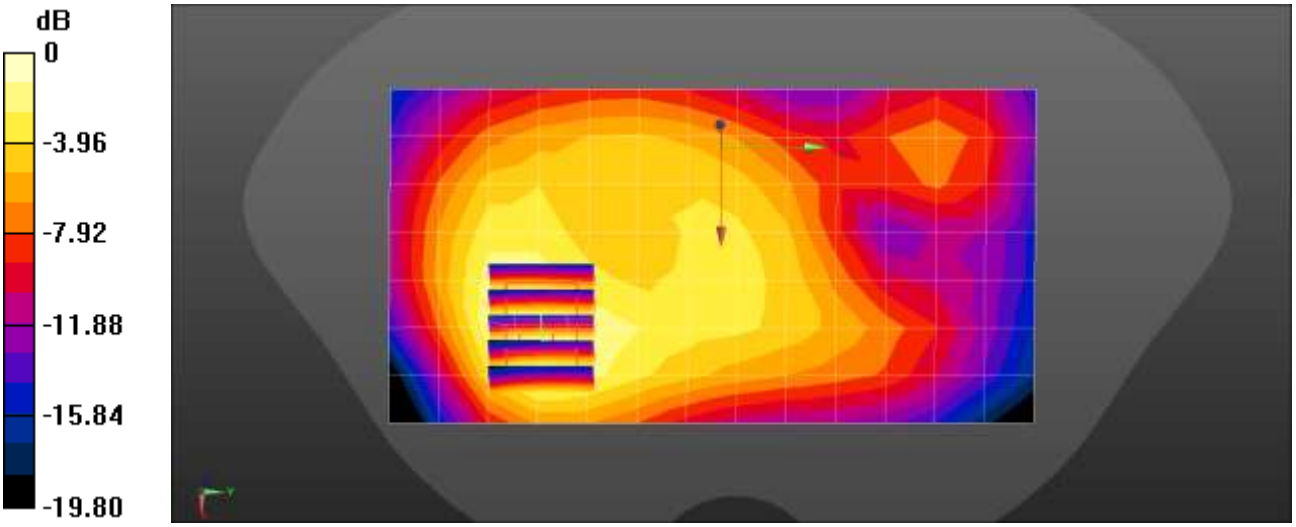
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.405 S/m; ε_r = 40.784; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 2 Bodyworn Rear 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.524 W/kg

UMTS Band 2 Bodyworn Rear 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.30 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.650 W/kg
SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.198 W/kg
Maximum value of SAR (measured) = 0.533 W/kg



0 dB = 0.533 W/kg = -2.73 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	04/01/2022
Plot No.:	20

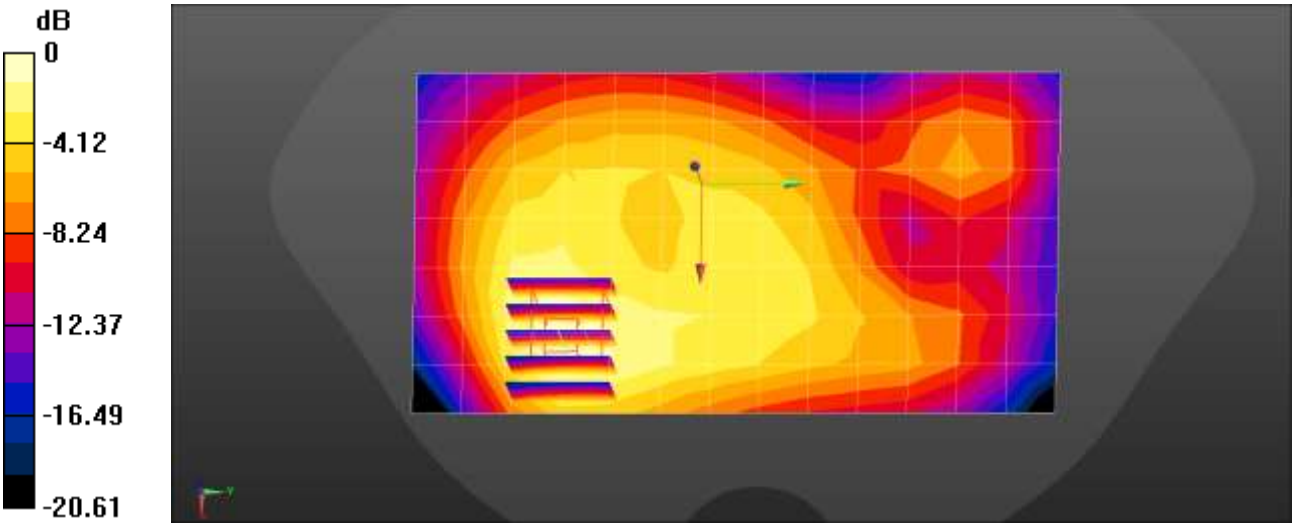
Communication System: UID 0, LTE Band2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.416 S/m; ε_r = 41.309; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 BodyWorn Rear QPSK 20MHz 1RB 0offset 19100ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.450 W/kg

LTE Band 2 BodyWorn Rear QPSK 20MHz 1RB 0offset 19100ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.76 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.601 W/kg
SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.184 W/kg
Maximum value of SAR (measured) = 0.491 W/kg



0 dB = 0.491 W/kg = -3.09 dBW/kg

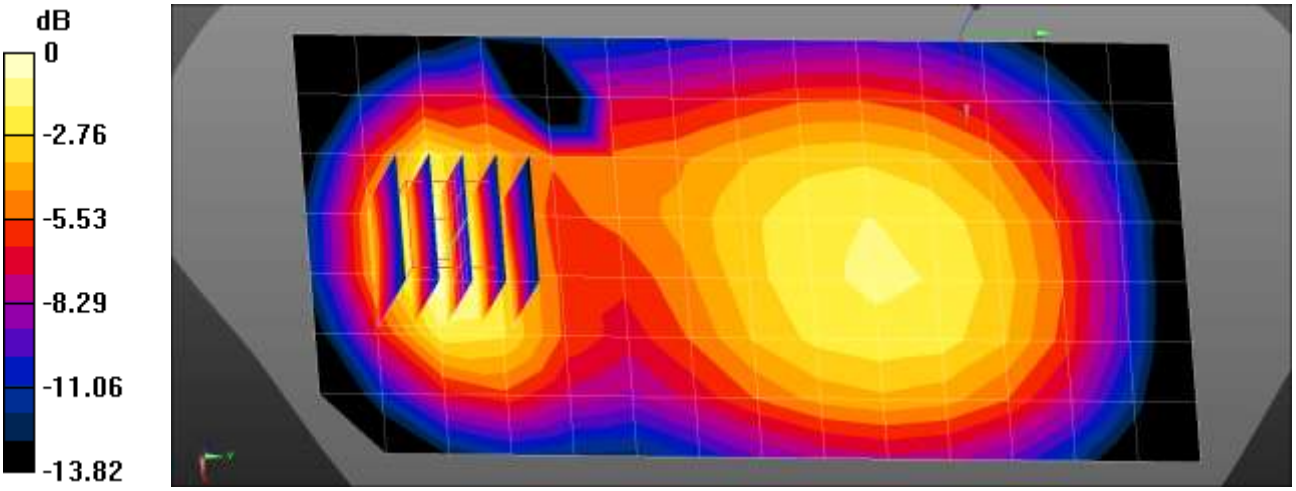
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.2 ℃
Ambient Temperature: 21.3 ℃
Test Date: 03/31/2022
Plot No.: 21
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.928 S/m; ε_r = 40.584; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 5 BodyWorn Rear QPSK 10MHz 1RB 49offset 20525ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.404 W/kg

LTE Band 5 BodyWorn Rear QPSK 10MHz 1RB 49offset 20525ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.46 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.489 W/kg
SAR(1 g) = 0.291 W/kg; SAR(10 g) = 0.173 W/kg
Maximum value of SAR (measured) = 0.415 W/kg



0 dB = 0.415 W/kg = -3.82 dBW/kg

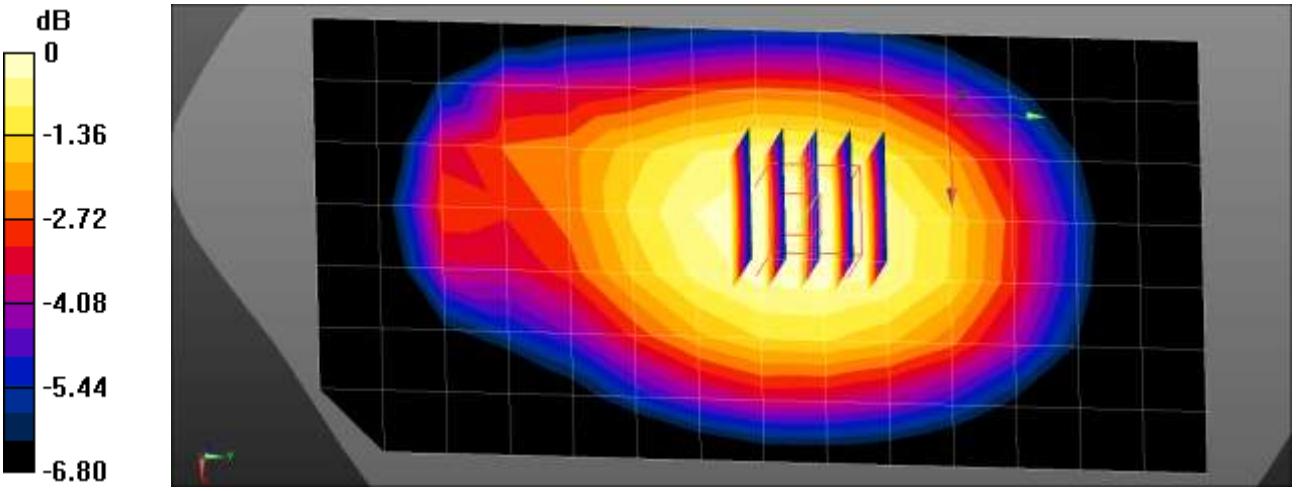
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.0 ℃
Ambient Temperature: 20.1 ℃
Test Date: 04/01/2022
Plot No.: 22
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.879 S/m; ε_r = 43.206; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(10.15, 10.15, 10.15) @ 707.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 BodyWorn Rear QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.239 W/kg

LTE Band 12 BodyWorn Rear QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.34 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.260 W/kg
SAR(1 g) = 0.207 W/kg; SAR(10 g) = 0.162 W/kg
Maximum value of SAR (measured) = 0.242 W/kg



0 dB = 0.242 W/kg = -6.16 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.2 ℃
Ambient Temperature:	20.3 ℃
Test Date:	04/06/2022
Plot No.:	23

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 = 0.922 S/m; ε_r = 40.637; ρ = 1000 kg/m^3
Phantom section: Flat Section

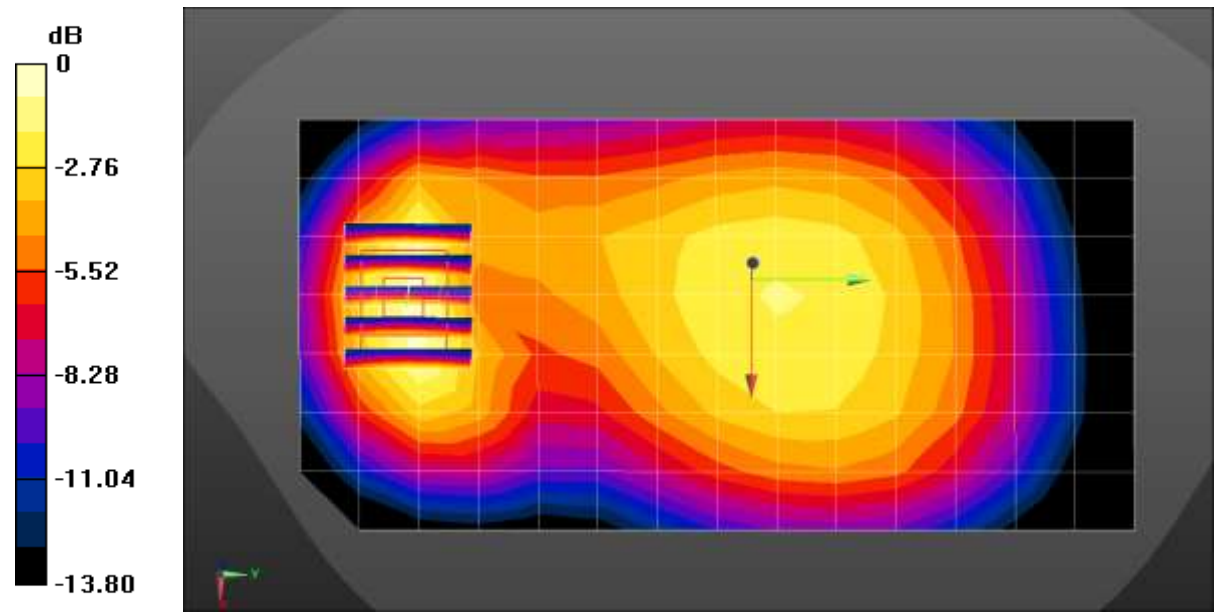
DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 831.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 26 BodyWorn Rear QPSK 15MHz 1RB 74offset 26865ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.367 W/kg

LTE Band 26 BodyWorn Rear QPSK 15MHz 1RB 74offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.02 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.451 W/kg
SAR(1 g) = 0.264 W/kg; SAR(10 g) = 0.156 W/kg



0 dB = 0.385 W/kg = -4.15 dBW/kg

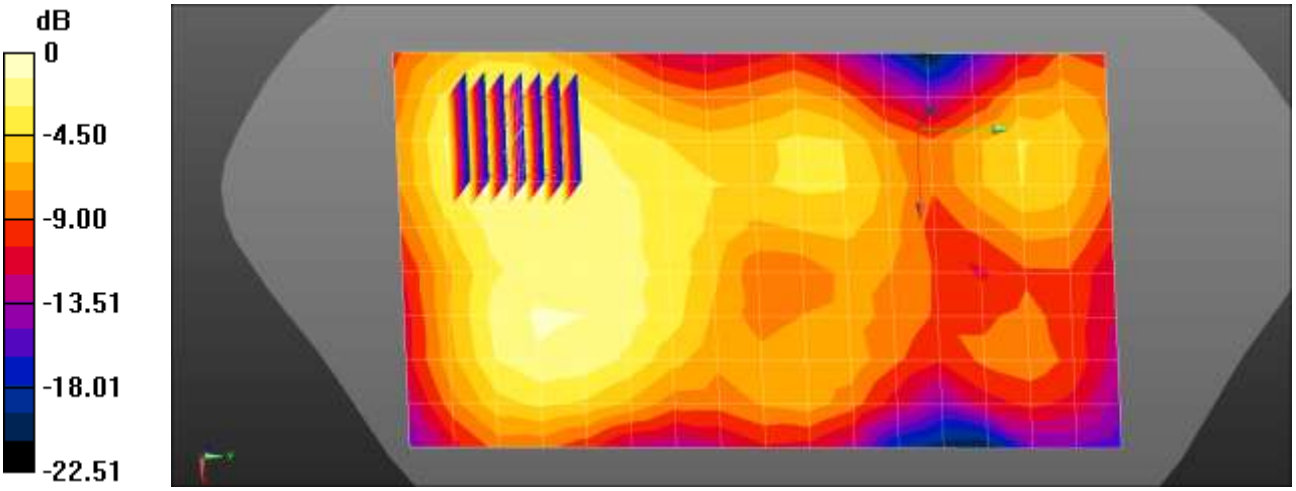
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.8 ℃
Ambient Temperature: 20.9 ℃
Test Date: 03/21/2022
Plot No.: 24
Communication System: UID 0, LTE Band 41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58016
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.971 S/m; ε_r = 38.015; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2593 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 41 BodyWorn Front QPSK 20MHz 1RB 0offset 40620ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.152 W/kg

LTE Band 41 BodyWorn Front QPSK 20MHz 1RB 0offset 40620ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.884 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.267 W/kg
SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.069 W/kg
Maximum value of SAR (measured) = 0.168 W/kg



0 dB = 0.168 W/kg = -7.75 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.8 ℃
Ambient Temperature:	21.9 ℃
Test Date:	04/05/2022
Plot No.:	25

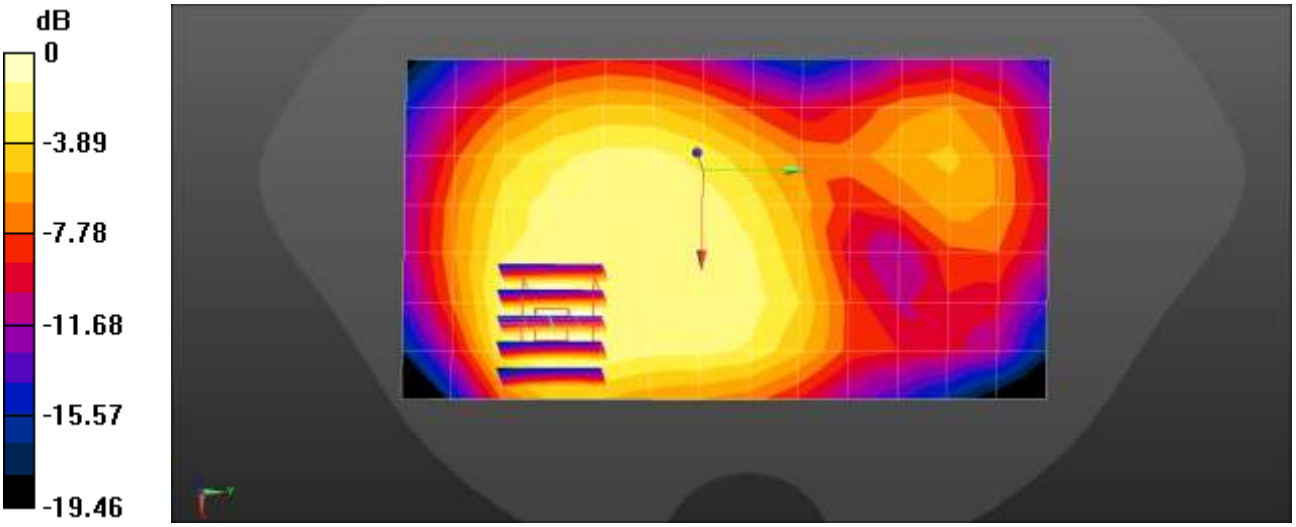
Communication System: UID 0, LTE Band66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.355 S/m; ε_r = 40.596; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 BodyWorn Rear QPSK 20MHz 1RB 99offset 132322ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.351 W/kg

LTE Band 66 BodyWorn Rear QPSK 20MHz 1RB 99offset 132322ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.51 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.461 W/kg
SAR(1 g) = 0.257 W/kg; SAR(10 g) = 0.148 W/kg
Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.382 W/kg = -4.18 dBW/kg

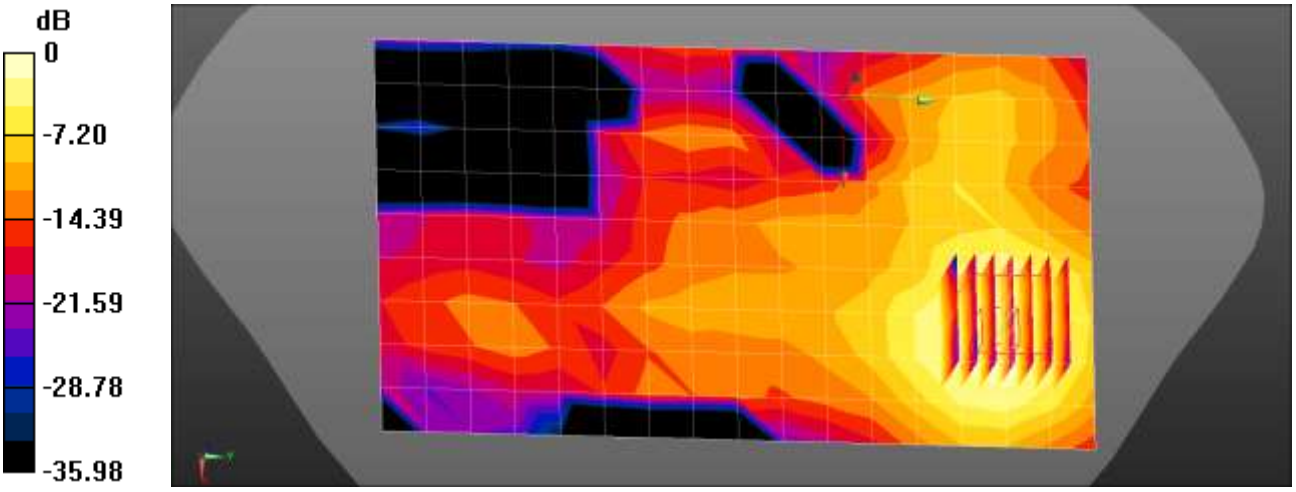
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.0 ℃
Ambient Temperature: 19.1 ℃
Test Date: 03/28/2022
Plot No.: 26
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.799 S/m; ε_r = 37.646; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2462 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b BodyWorn Rear 1Mbps 11ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.102 W/kg

802.11b BodyWorn Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.819 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.140 W/kg
SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.109 W/kg



0 dB = 0.109 W/kg = -9.63 dBW/kg

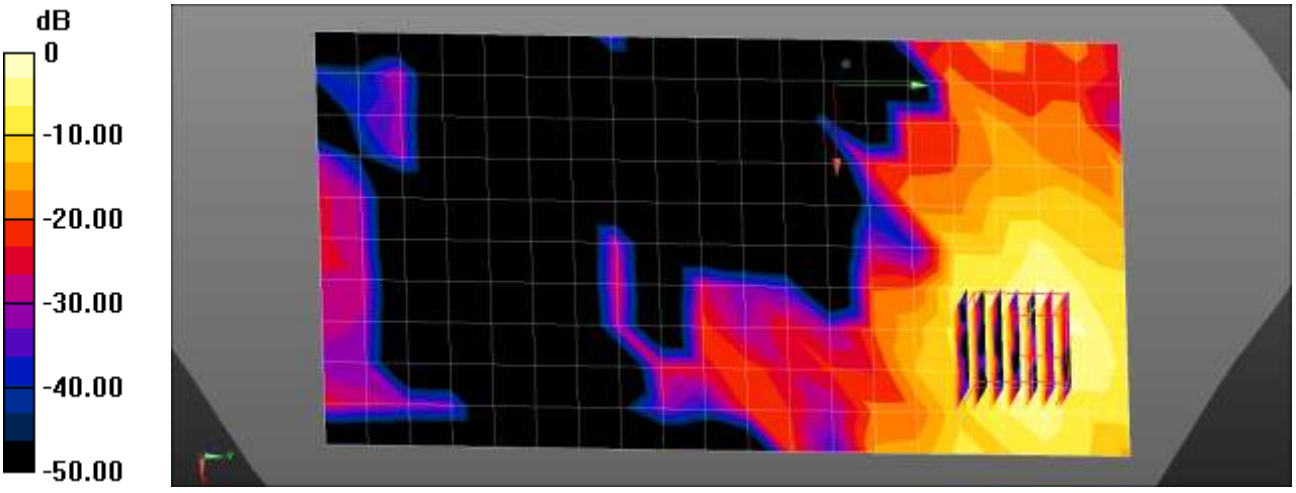
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.4 ℃
Ambient Temperature: 19.5 ℃
Test Date: 04/12/2022
Plot No.: 27
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.22 S/m; ε_r = 35.639; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5, 5, 5) @ 5745 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

802.11a BodyWorn Rear 6Mbps 149ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.16 W/kg

802.11a BodyWorn Rear 6Mbps 149ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5.50 W/kg
SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.151 W/kg
Maximum value of SAR (measured) = 1.46 W/kg



0 dB = 1.46 W/kg = 1.64 dBW/kg

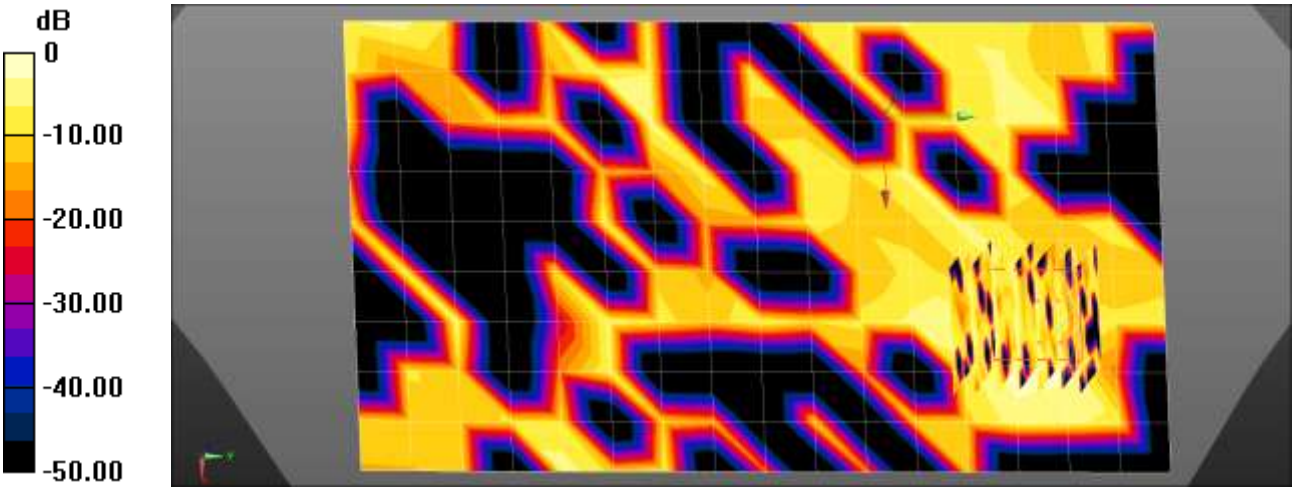
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.5 ℃
Ambient Temperature: 19.6 ℃
Test Date: 03/30/2022
Plot No.: 28
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.302
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.821 S/m; ε_r = 39.29; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2441 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth BodyWorn Rear DH5 39ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.00294 W/kg

Bluetooth BodyWorn Rear DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.2320 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.00953 W/kg
SAR(1 g) = 0.0019 W/kg; SAR(10 g) = 0.000721 W/kg
Maximum value of SAR (measured) = 0.00293 W/kg



0 dB = 0.00293 W/kg = -25.33 dBW/kg

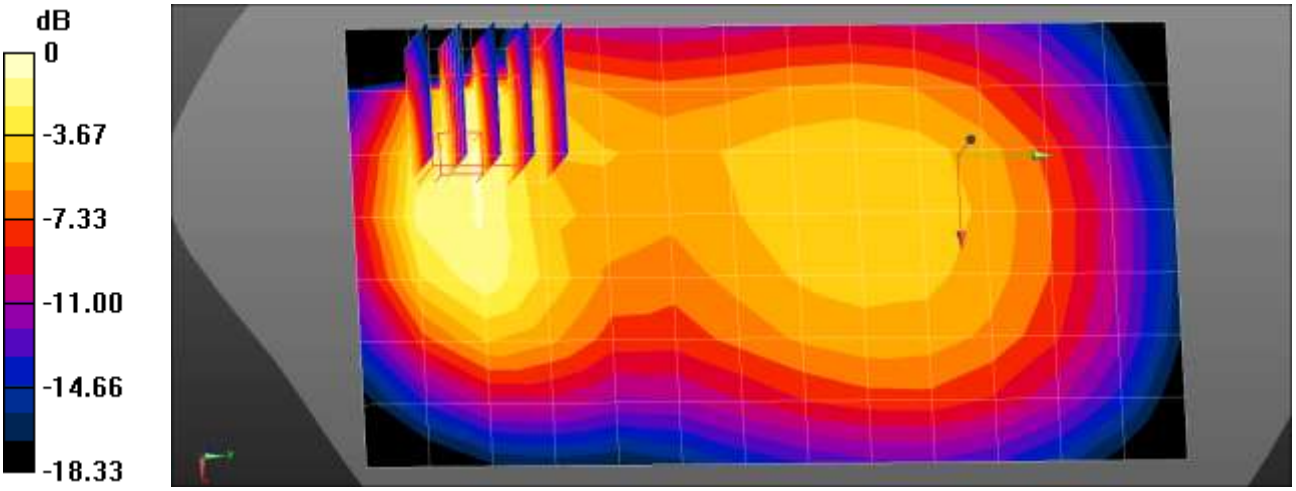
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.1 ℃
Ambient Temperature: 19.2 ℃
Test Date: 03/29/2022
Plot No.: 29
Communication System: UID 0, GSM850 GPRS 4TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:2.07491
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.894 S/m; ε_r = 42.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

GSM850 4Tx Body Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.748 W/kg

GSM850 4Tx Body Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.50 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.577 W/kg; SAR(10 g) = 0.292 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:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	03/29/2022
Plot No.:	30

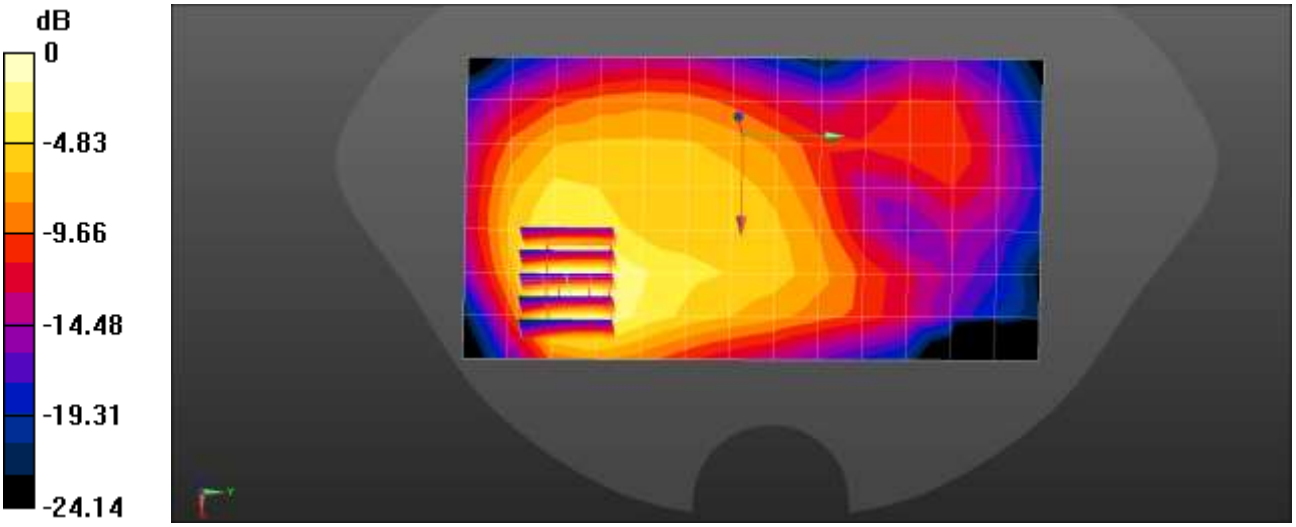
Communication System: UID 0, GSM 1900 3Tx (0); Frequency: 1880 MHz;Duty Cycle: 1:2.77013
Medium parameters used: f = 1880 MHz; σ = 1.394 S/m; ε_r = 40.575; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

GSM 1900 3Tx Body Rear 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.347 W/kg

GSM 1900 3Tx Body Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.619 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.544 W/kg
SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.145 W/kg
Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

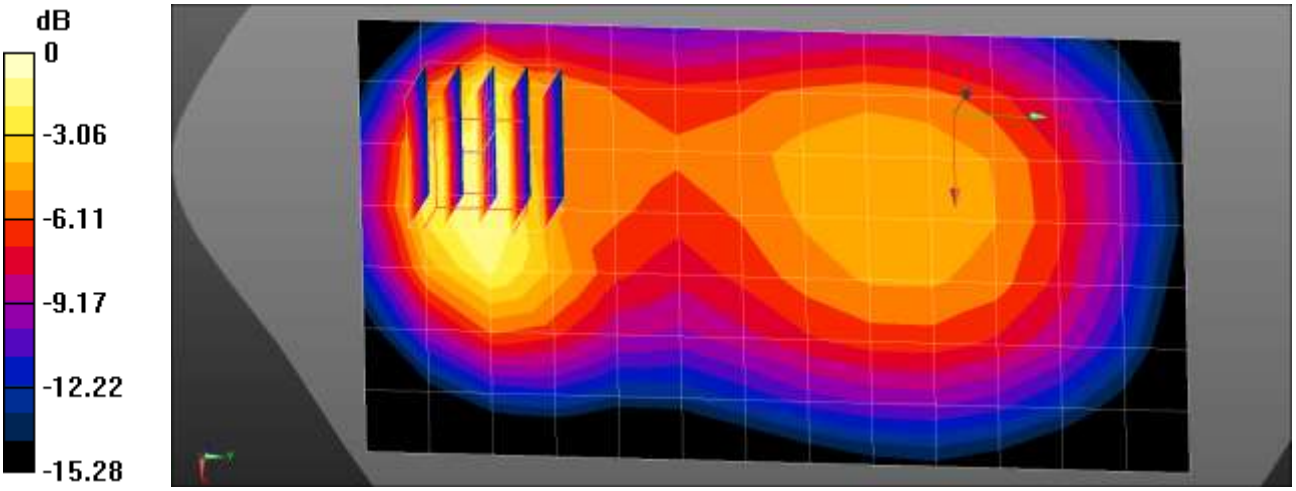
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 20.7 ℃
Ambient Temperature: 20.8 ℃
Test Date: 03/30/2022
Plot No.: 31
Communication System: UID 0, WCDMA850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.885 S/m; ε_r = 41.738; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.6 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

UMTS Band 5 Body Rear 4183ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.707 W/kg

UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.91 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.941 W/kg
SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.281 W/kg
Maximum value of SAR (measured) = 0.767 W/kg



0 dB = 0.767 W/kg = -1.15 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.1 ℃
Test Date:	03/31/2022
Plot No.:	32

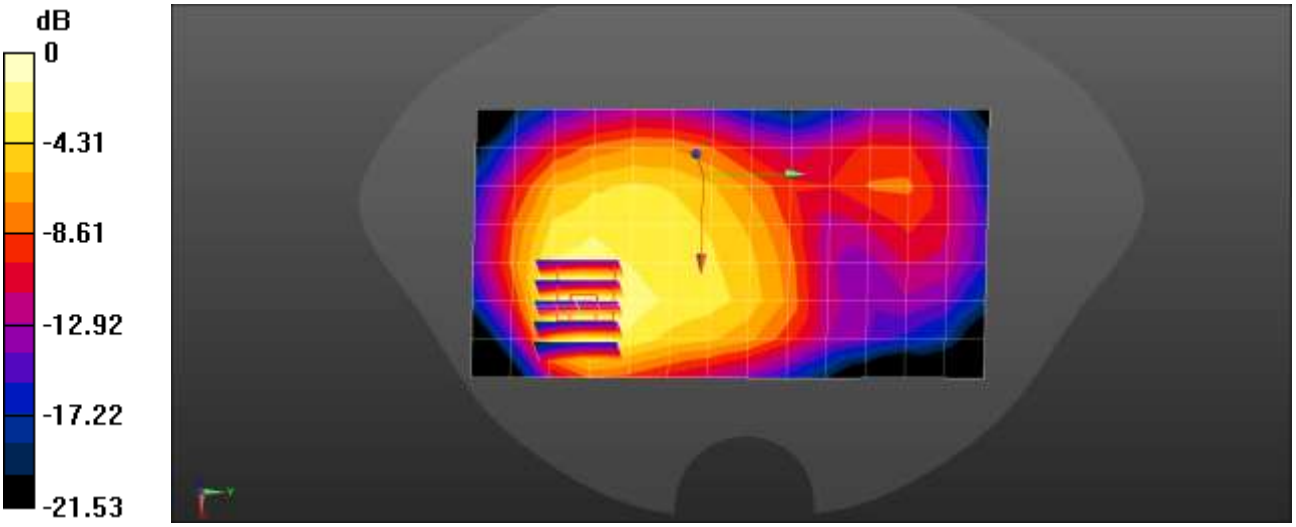
Communication System: UID 0, WCDMA IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.342 S/m; ε_r = 41.554; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1732.4 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 4 Body Rear 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.568 W/kg

UMTS Band 4 Body Rear 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.45 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.768 W/kg
SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.222 W/kg
Maximum value of SAR (measured) = 0.613 W/kg



0 dB = 0.613 W/kg = -2.13 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.5 ℃
Test Date:	03/30/2022
Plot No.:	33

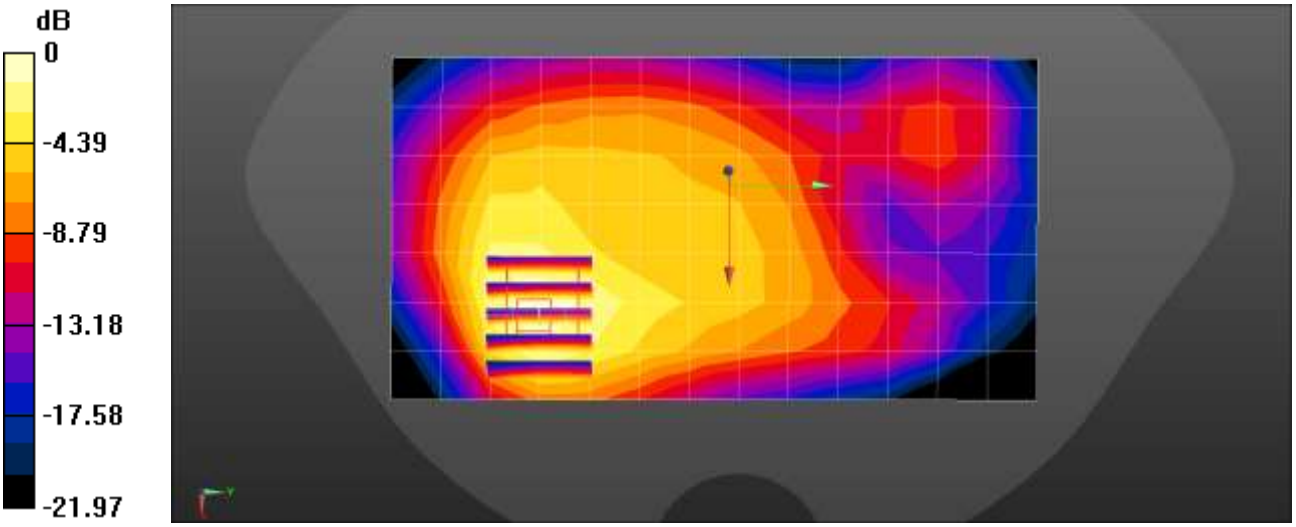
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.405 S/m; ε_r = 40.784; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1880 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

UMTS Band 2 Body Rear 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.533 W/kg

UMTS Band 2 Body Rear 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.98 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.759 W/kg
SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.204 W/kg
Maximum value of SAR (measured) = 0.583 W/kg



0 dB = 0.583 W/kg = -2.34 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	04/01/2022
Plot No.:	34

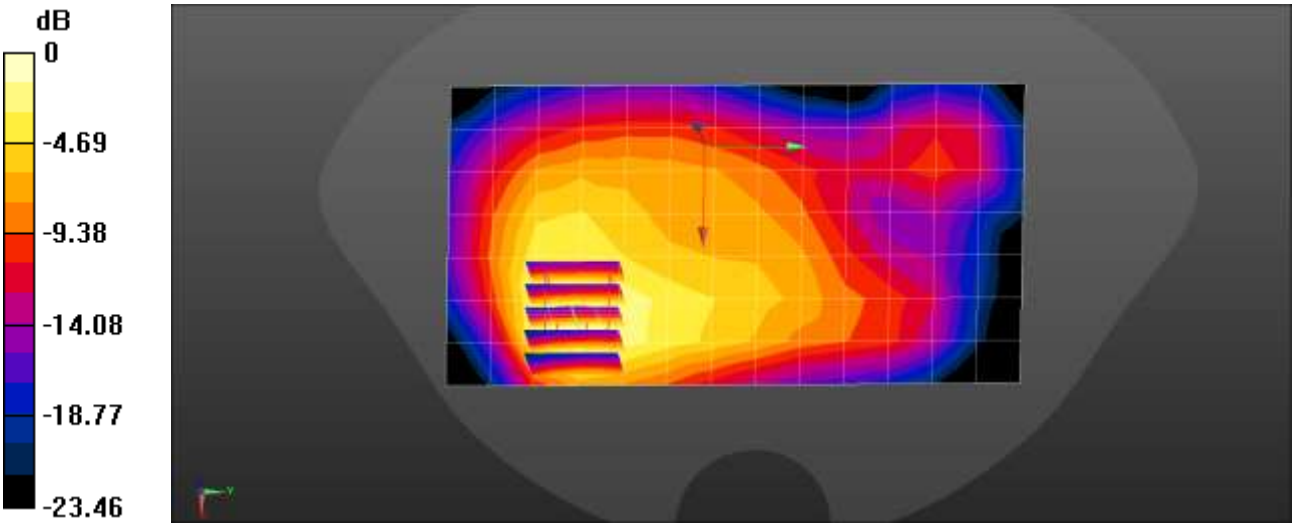
Communication System: UID 0, LTE Band2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.416 S/m; ε_r = 41.309; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 Body Rear QPSK 20MHz 50RB 0offset 19100ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.721 W/kg

LTE Band 2 Body Rear QPSK 20MHz 50RB 0offset 19100ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.93 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.520 W/kg; SAR(10 g) = 0.275 W/kg
Maximum value of SAR (measured) = 0.815 W/kg



0 dB = 0.815 W/kg = -0.89 dBW/kg

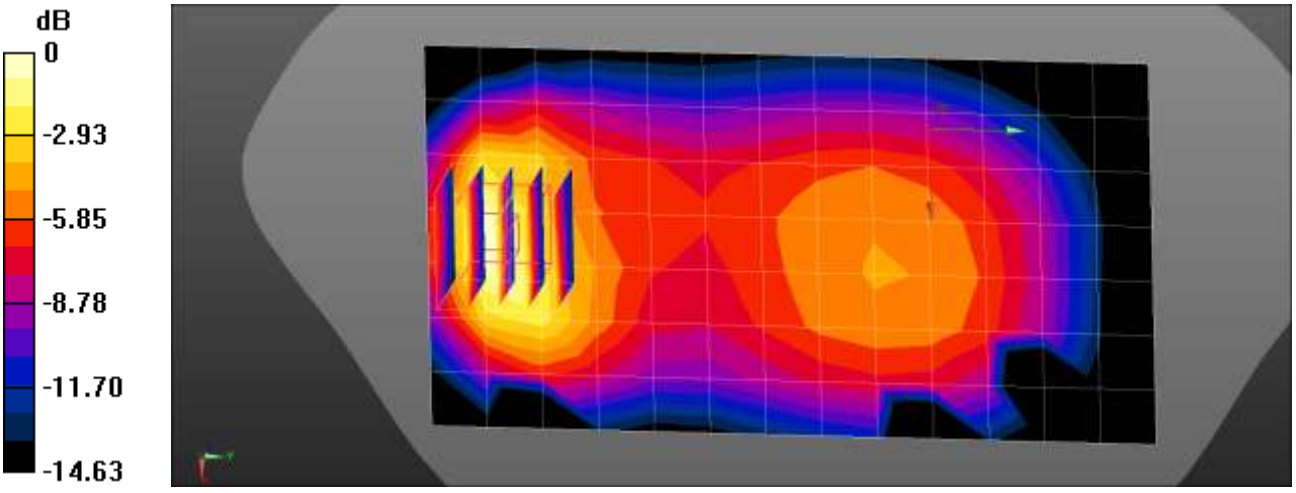
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 21.2 ℃
Ambient Temperature: 21.3 ℃
Test Date: 03/31/2022
Plot No.: 35
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.928 S/m; ε_r = 40.584; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 836.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 5 Body Rear QPSK 10MHz 1RB 49offset 20525ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.712 W/kg

LTE Band 5 Body Rear QPSK 10MHz 1RB 49offset 20525ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.75 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.982 W/kg
SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 0.819 W/kg



0 dB = 0.819 W/kg = -0.87 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.0 ℃
Ambient Temperature:	20.1 ℃
Test Date:	04/01/2022
Plot No.:	36

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 = 0.879 S/m; ε_r = 43.206; ρ = 1000 kg/m^3

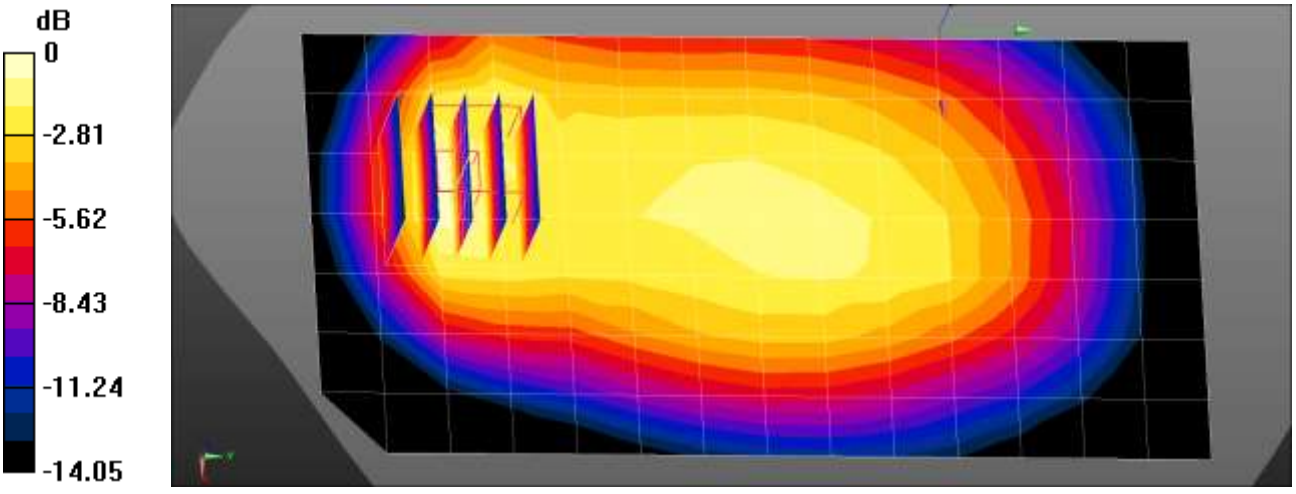
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(10.15, 10.15, 10.15) @ 707.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.273 W/kg

LTE Band 12 Body Rear QPSK 10MHz 1RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.40 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.369 W/kg
SAR(1 g) = 0.208 W/kg; SAR(10 g) = 0.126 W/kg
Maximum value of SAR (measured) = 0.305 W/kg



0 dB = 0.305 W/kg = -5.16 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.2 ℃
Ambient Temperature:	20.3 ℃
Test Date:	04/06/2022
Plot No.:	37

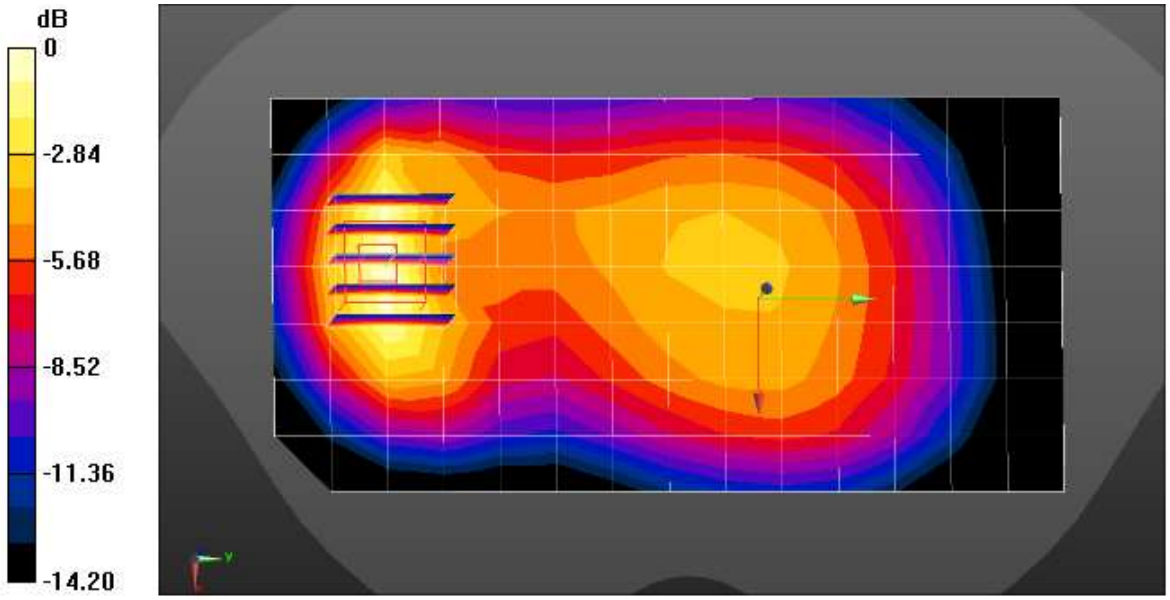
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.922 S/m; ε_r = 40.637; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 831.5 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left); Type: QD 000 P41 Ax; Serial: 2014
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 26 Body Rear QPSK 15MHz 1RB 74offset 26865ch/Area Scan (8x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.592 W/kg

LTE Band 26 Body Rear QPSK 15MHz 1RB 74offset 26865ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.42 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.720 W/kg
SAR(1 g) = 0.399 W/kg; SAR(10 g) = 0.227 W/kg
Maximum value of SAR (measured) = 0.595 W/kg



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

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	03/21/2022
Plot No.:	38

Communication System: UID 0, LTE Band 41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58016

Medium parameters used (interpolated): f = 2593 MHz; σ = 1.971 S/m; ε_r = 38.015; ρ = 1000 kg/m^3

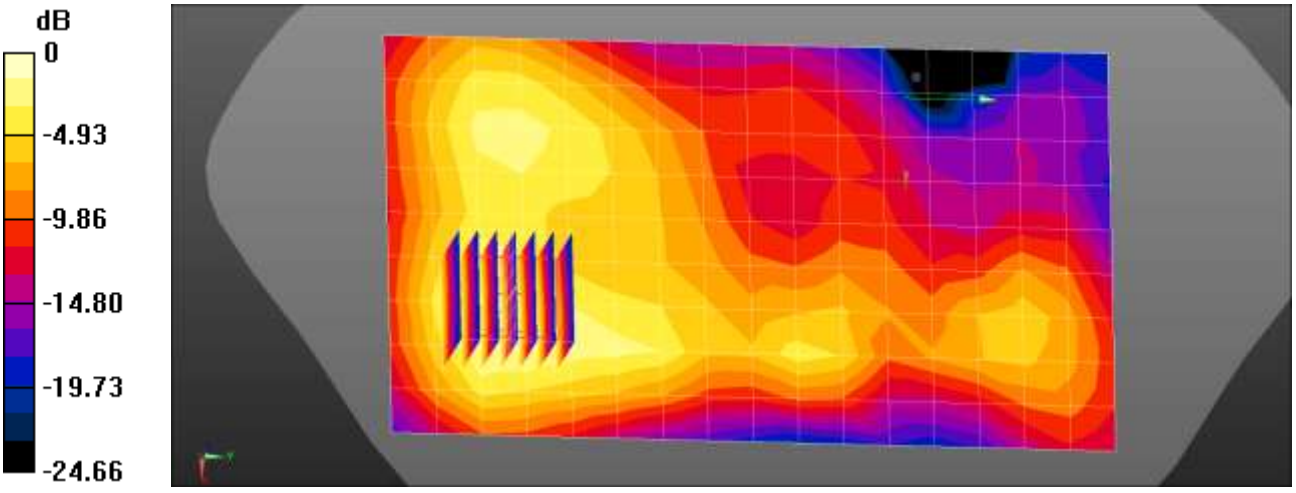
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2593 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 41 Body Rear QPSK 20MHz 1RB 0offset 40620ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.268 W/kg

LTE Band 41 Body Rear QPSK 20MHz 1RB 0offset 40620ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.713 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.519 W/kg
SAR(1 g) = 0.237 W/kg; SAR(10 g) = 0.114 W/kg
Maximum value of SAR (measured) = 0.310 W/kg



0 dB = 0.310 W/kg = -5.09 dBW/kg

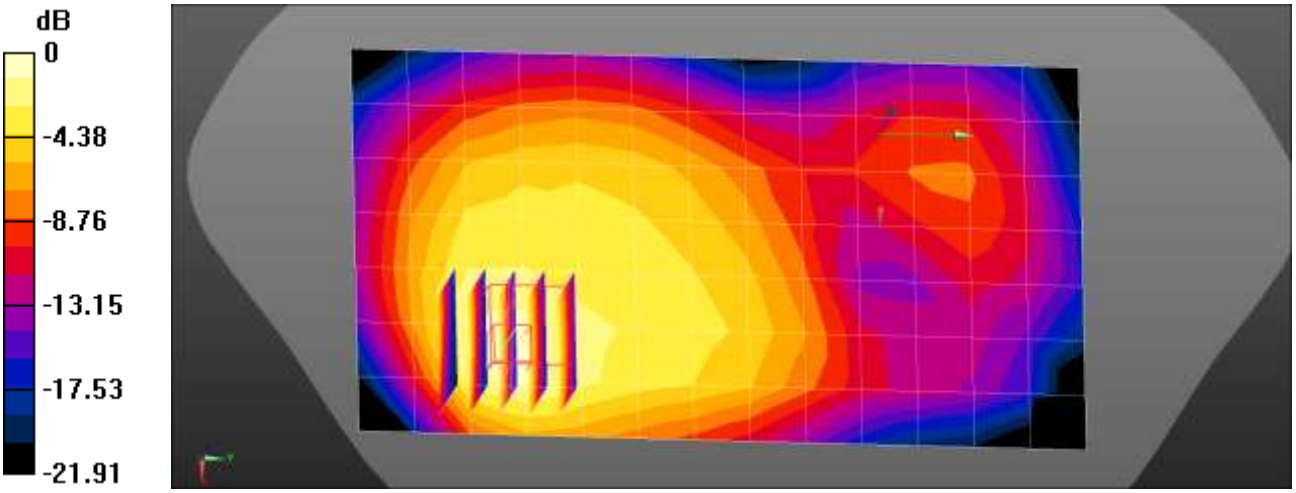
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.9 ℃
Ambient Temperature: 20.0 ℃
Test Date: 04/22/2022
Plot No.: 39
Communication System: UID 0, LTE Band66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.355 S/m; ε_r = 40.596; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1745 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right
- Measurement SW: DASY52, Version 52.10 (4)

LTE Band 66 Body Rear QPSK 20MHz 50RB 49offset 132322ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.372 W/kg

LTE Band 66 Body Rear QPSK 20MHz 50RB 49offset 132322ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.503 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.567 W/kg
SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.162 W/kg
Maximum value of SAR (measured) = 0.455 W/kg



0 dB = 0.455 W/kg = -3.42 dBW/kg

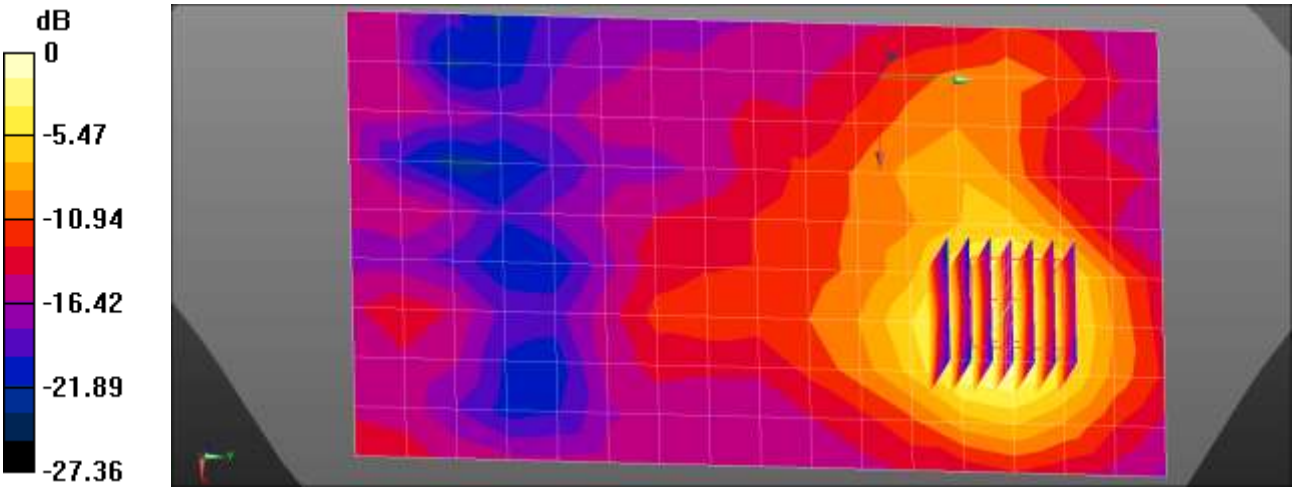
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.0 ℃
Ambient Temperature: 19.1 ℃
Test Date: 03/28/2022
Plot No.: 40
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.799 S/m; ε_r = 37.646; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2462 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

802.11b Body Rear 1Mbps 11ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.123 W/kg

802.11b Body Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.233 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.169 W/kg
SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.040 W/kg
Maximum value of SAR (measured) = 0.134 W/kg



0 dB = 0.134 W/kg = -8.73 dBW/kg

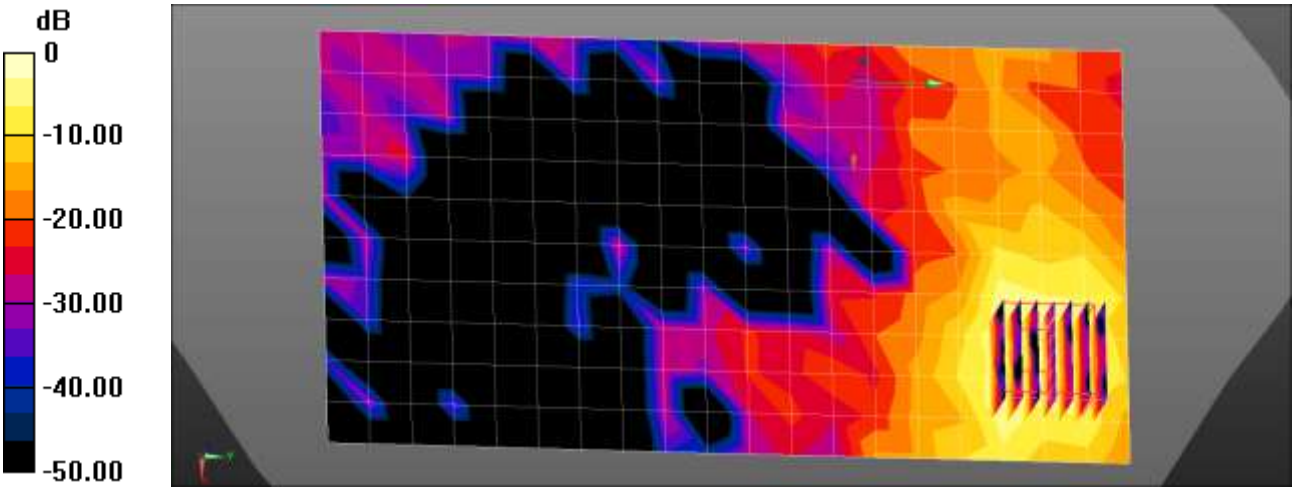
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.4 ℃
Ambient Temperature: 19.5 ℃
Test Date: 04/12/2022
Plot No.: 41
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.22 S/m; ε_r = 35.639; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5, 5, 5) @ 5745 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

802.11a Body Rear 6Mbps 149ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.63 W/kg

802.11a Body Rear 6Mbps 149ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5.35 W/kg
SAR(1 g) = 0.717 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.33 W/kg = 3.67 dBW/kg

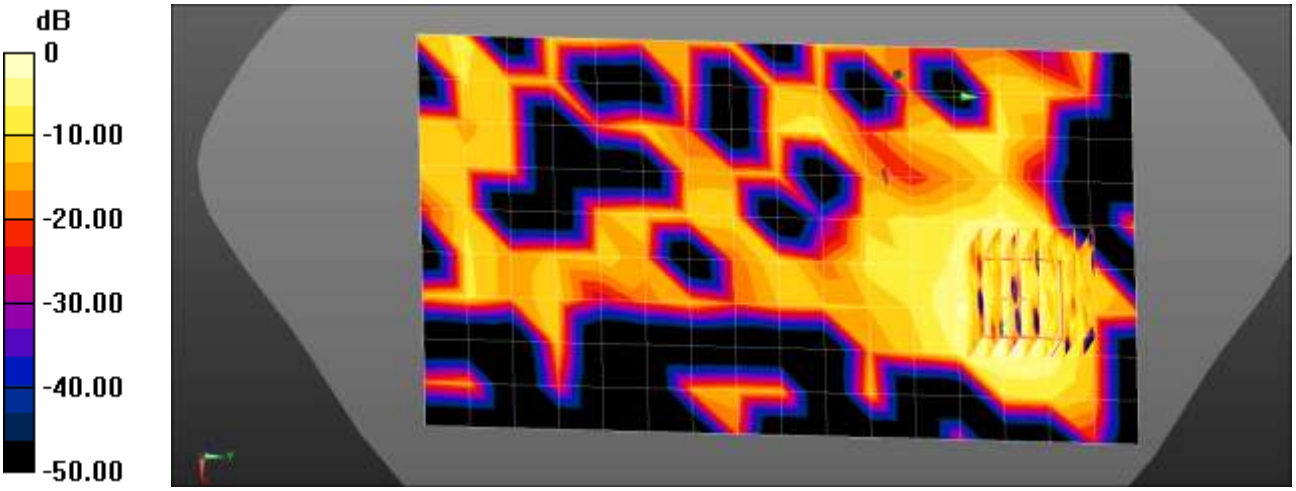
Test Laboratory: HCT CO., LTD
EUT Type: Mobile Phone
Liquid Temperature: 19.5 ℃
Ambient Temperature: 19.6 ℃
Test Date: 03/30/2022
Plot No.: 42
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.302
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.821 S/m; ε_r = 39.29; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2441 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

Bluetooth Body Rear DH5 39ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.00580 W/kg

Bluetooth Body Rear DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.0100 W/kg
SAR(1 g) = 0.0052 W/kg; SAR(10 g) = 0.00207 W/kg
Maximum value of SAR (measured) = 0.00734 W/kg



0 dB = 0.00734 W/kg = -21.34 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.4 ℃
Test Date:	04/04/2022
Plot No.:	43

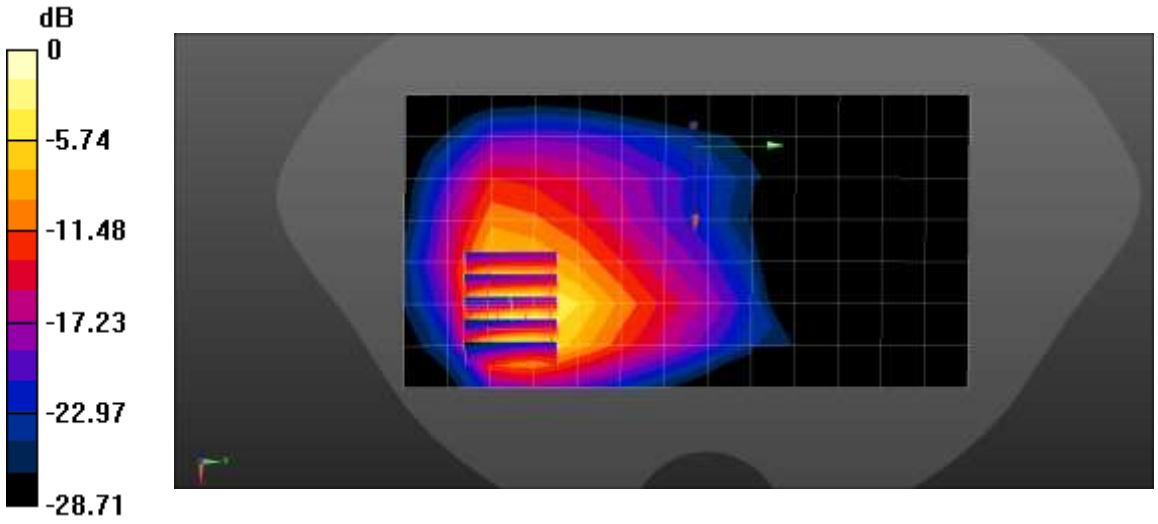
Communication System: UID 0, LTE Band2 (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.415 S/m; ε_r = 41.297; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 Phablet Rear QPSK 20MHz 50RB 0offset 19100ch Grip 0mm/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.08 W/kg

LTE Band 2 Phablet Rear QPSK 20MHz 50RB 0offset 19100ch Grip 0mm/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.473 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 10.6 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.68 W/kg
Maximum value of SAR (measured) = 7.72 W/kg



0 dB = 7.72 W/kg = 8.88 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.4 ℃
Test Date:	04/04/2022
Plot No.:	44

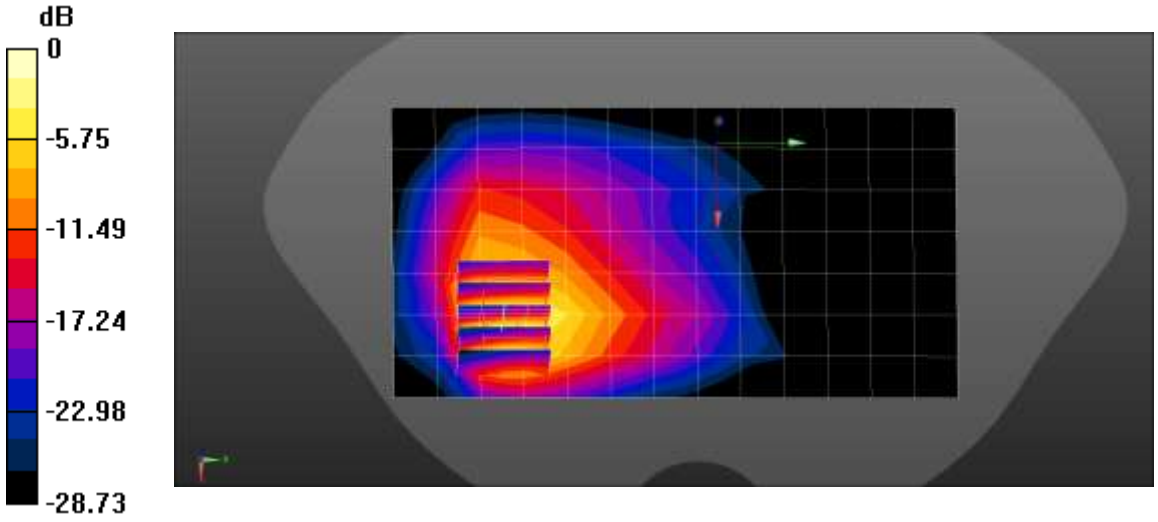
Communication System: UID 0, LTE Band2 (0); Frequency: 1860 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1860 MHz; σ = 1.376 S/m; ε_r = 41.433; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1860 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 2 Phablet Rear QPSK 20MHz 50RB 0offset 18900ch Grip 0mm/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.97 W/kg

LTE Band 2 Phablet Rear QPSK 20MHz 50RB 0offset 18900ch Grip 0mm/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.652 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 10.1 W/kg
SAR(1 g) = 3.77 W/kg; SAR(10 g) = 1.64 W/kg
Maximum value of SAR (measured) = 7.43 W/kg



0 dB = 7.43 W/kg = 8.71 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	19.1 ℃
Ambient Temperature:	19.2 ℃
Test Date:	04/08/2022
Plot No.:	45

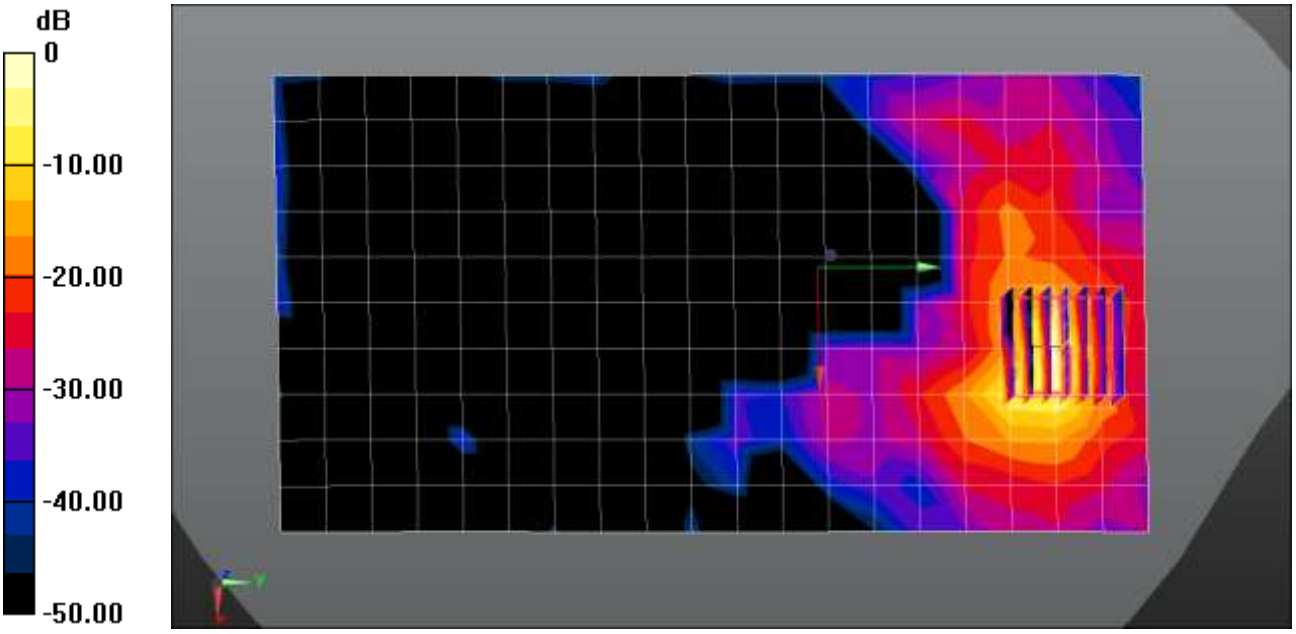
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5300 MHz; σ = 4.752 S/m; ε_r = 36.455; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5.55, 5.55, 5.55) @ 5300 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a Body Rear 6Mbps 60ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 16.2 W/kg

802.11a Body Rear 6Mbps 60ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 0 V/m; Power Drift = 0.01dB
Peak SAR (extrapolated) = 84.8 W/kg
SAR(1 g) = 6.62 W/kg; SAR(10 g) = 1.32 W/kg
Smallest distance from peaks to all points 3 dB below = 3.2 mm
Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.92 dBW/kg

Appendix C. – Dipole Verification Plots

■ Verification Data (750 ㎒ Head)

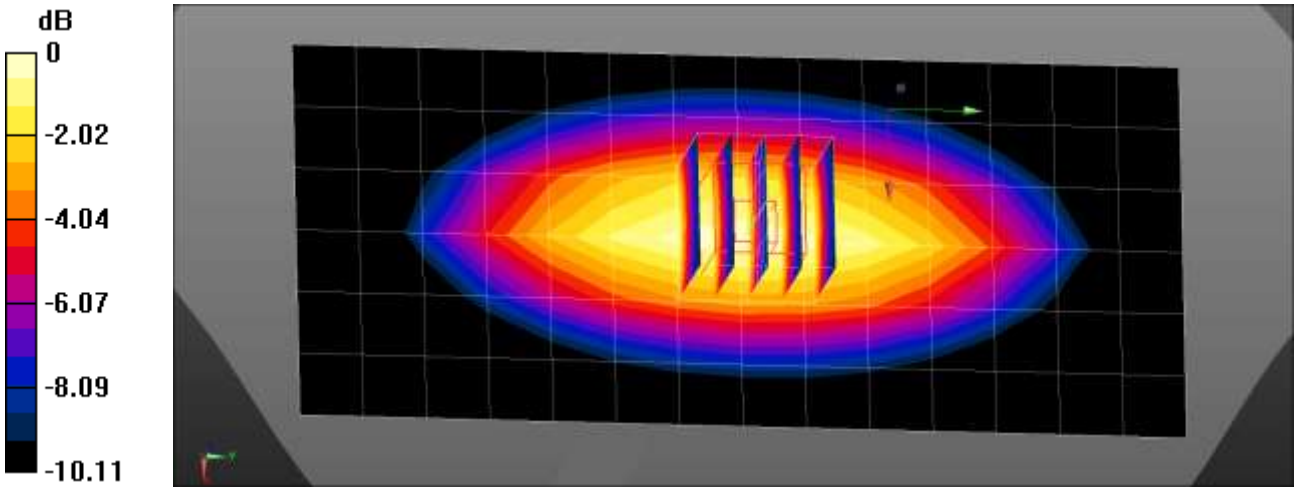
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.0 ℃
Test Date: 04/01/2022
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.897 S/m; ε_r = 42.591; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(10.15, 10.15, 10.15) @ 750 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

750MHz Head Verification/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.547 W/kg

750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.99 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.617 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.280 W/kg
Maximum value of SAR (measured) = 0.552 W/kg



0 dB = 0.552 W/kg = -2.58 dBW/kg

■ **Verification Data (835 ㎒ Head)**

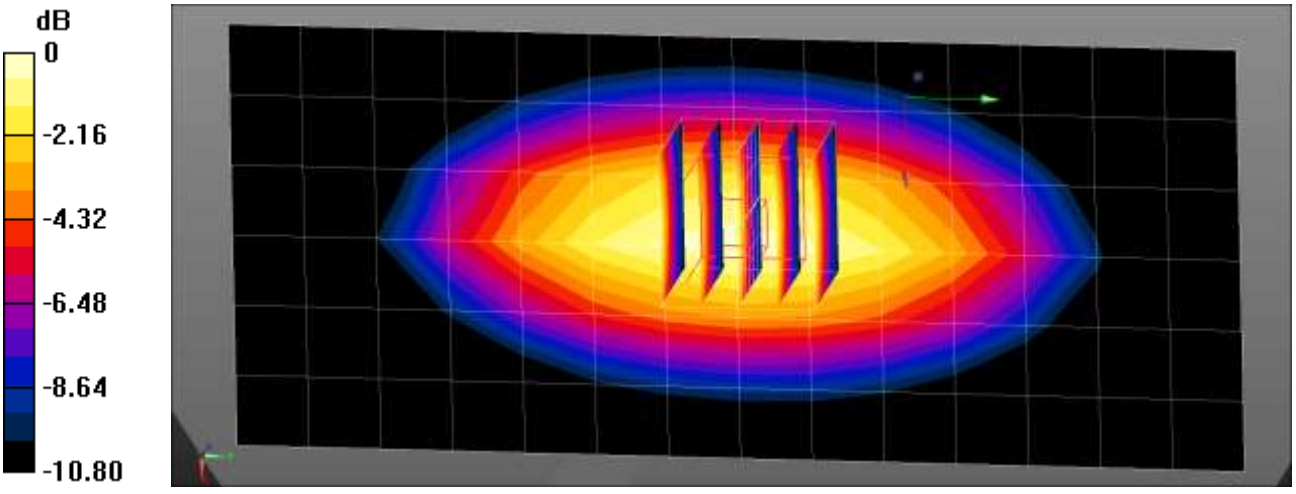
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 19.1 ℃
Test Date: 03/29/2022
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.892 S/m; ε_r = 42.064; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

835MHz Head Verification/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.624 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.64 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.730 W/kg
SAR(1 g) = 0.476 W/kg; SAR(10 g) = 0.311 W/kg
Maximum value of SAR (measured) = 0.644 W/kg



0 dB = 0.644 W/kg = -1.91 dBW/kg

■ **Verification Data (835 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	04/25/2022

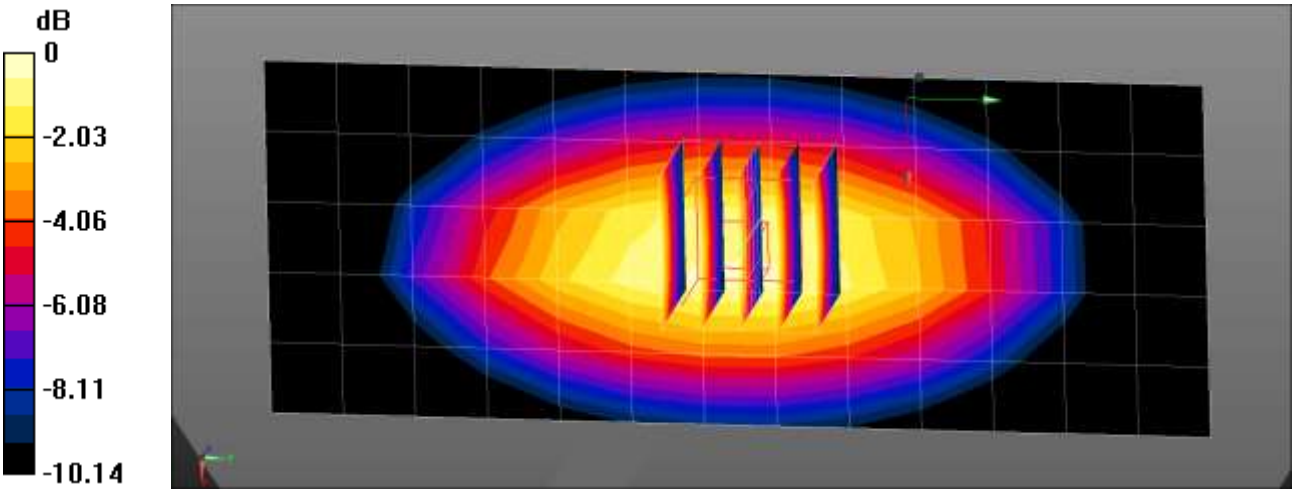
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.93 S/m; ε_r = 40.637; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(9.75, 9.75, 9.75) @ 835 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V5.0 (20deg probe tilt)
- Measurement SW: DASY52, Version 52.10 (4)

835MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.566 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.50 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.696 W/kg
SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.328 W/kg
Maximum value of SAR (measured) = 0.632 W/kg



0 dB = 0.632 W/kg = -1.99 dBW/kg

■ **Verification Data (835 ㎒ Head)**

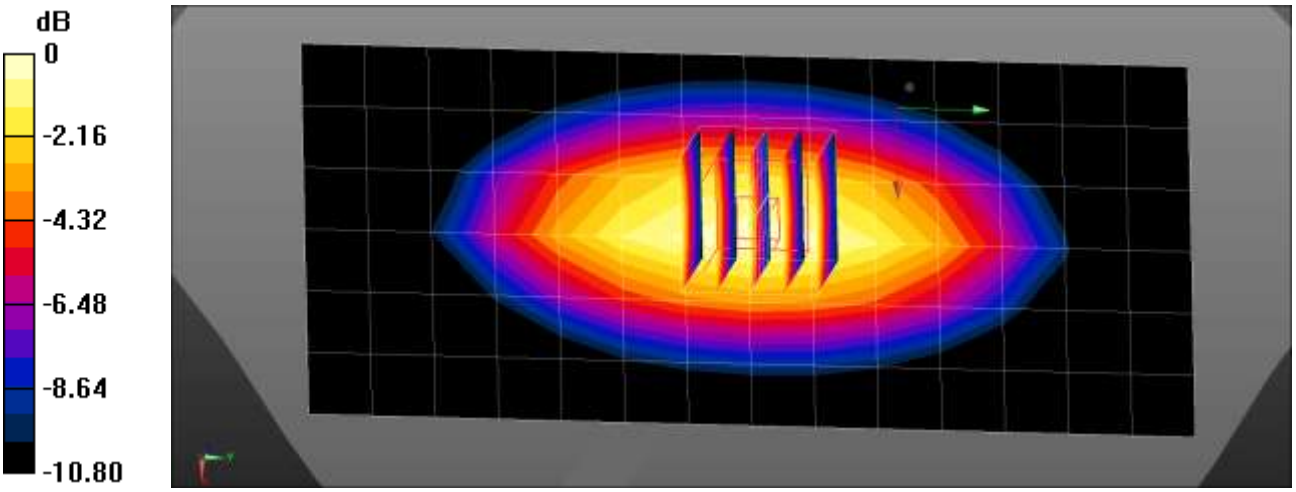
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.7 ℃
Test Date: 03/30/2022
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.883 S/m; ε_r = 41.762; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

835MHz Head Verification/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.610 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.46 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.711 W/kg
SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.306 W/kg
Maximum value of SAR (measured) = 0.629 W/kg



0 dB = 0.629 W/kg = -2.01 dBW/kg

■ **Verification Data (835 ㎒ Head)**

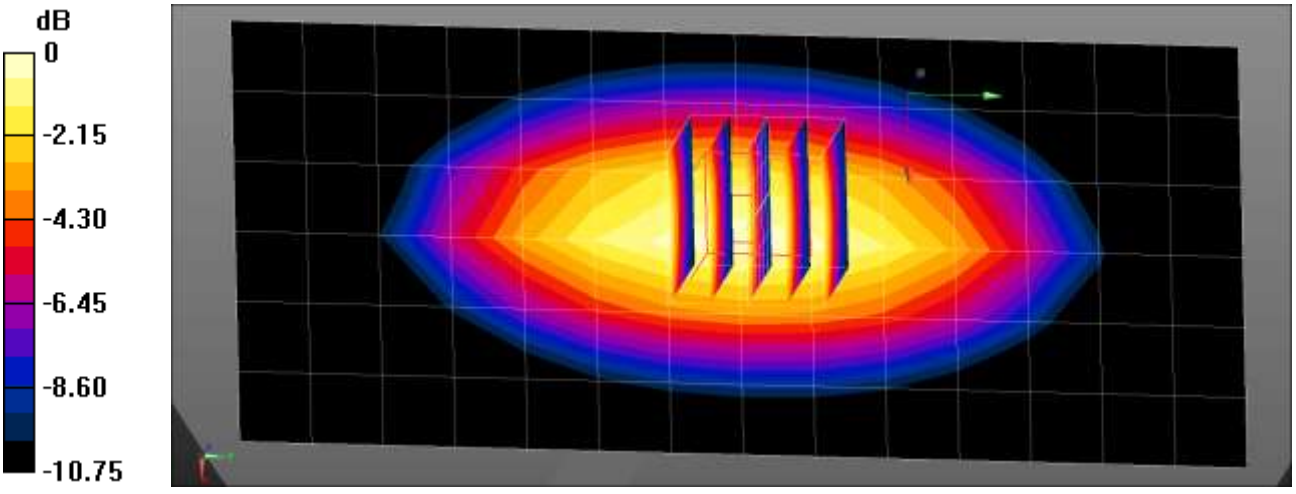
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.2 ℃
Test Date: 03/31/2022
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.926 S/m; ε_r = 40.607; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

835MHz Head Verification/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.645 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.70 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.748 W/kg
SAR(1 g) = 0.493 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (measured) = 0.662 W/kg



0 dB = 0.662 W/kg = -1.79 dBW/kg

■ **Verification Data (835 ㎒ Head)**

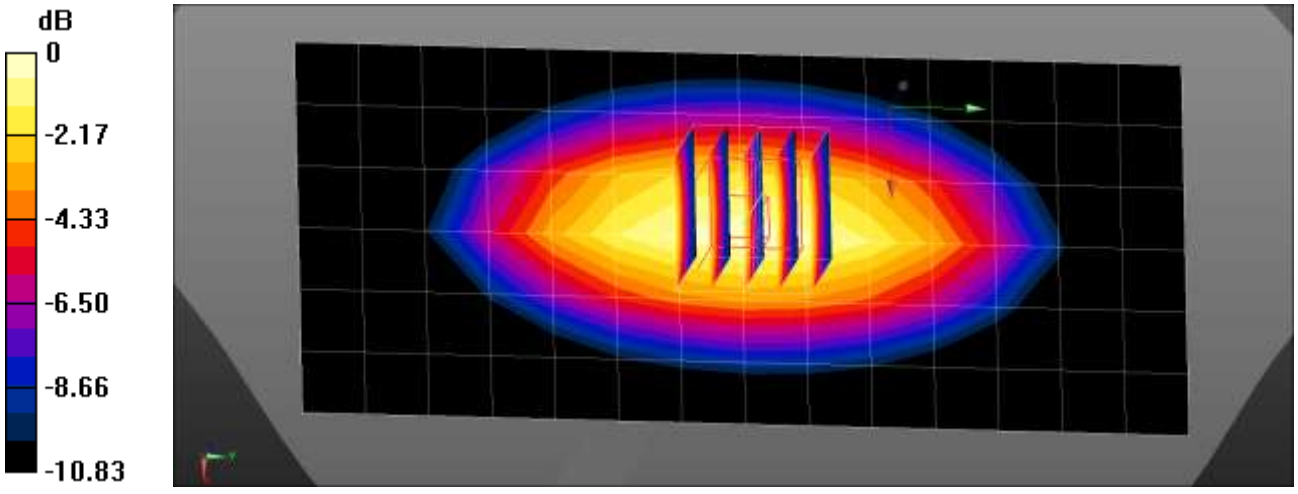
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.2 ℃
Test Date: 04/06/2022
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.926 S/m; ε_r = 40.582; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7309; ConvF(9.92, 9.92, 9.92) @ 835 MHz; Calibrated: 2021-04-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1686; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (Left)
- Measurement SW: DASY52, Version 52.10 (4)

835MHz Head Verification/Area Scan (7x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.647 W/kg

835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.75 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.756 W/kg
SAR(1 g) = 0.494 W/kg; SAR(10 g) = 0.323 W/kg
Maximum value of SAR (measured) = 0.668 W/kg



0 dB = 0.668 W/kg = -1.75 dBW/kg

■ **Verification Data (1 800 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	03/31/2022

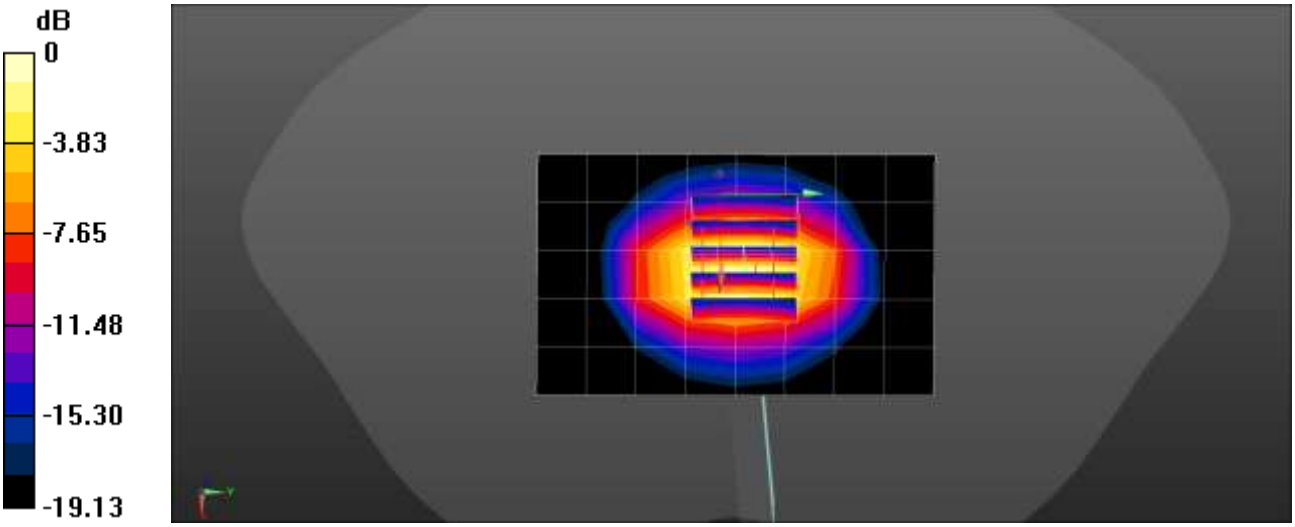
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.413 S/m; ε_r = 41.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1800 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; 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) = 2.30 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.16 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.92 W/kg
SAR(1 g) = 2 W/kg; SAR(10 g) = 1.02 W/kg
Smallest distance from peaks to all points 3 dB below = 9.6 mm
Ratio of SAR at M2 to SAR at M1 = 50.4%
Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

■ **Verification Data (1 800 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.9 ℃
Test Date:	04/22/2022

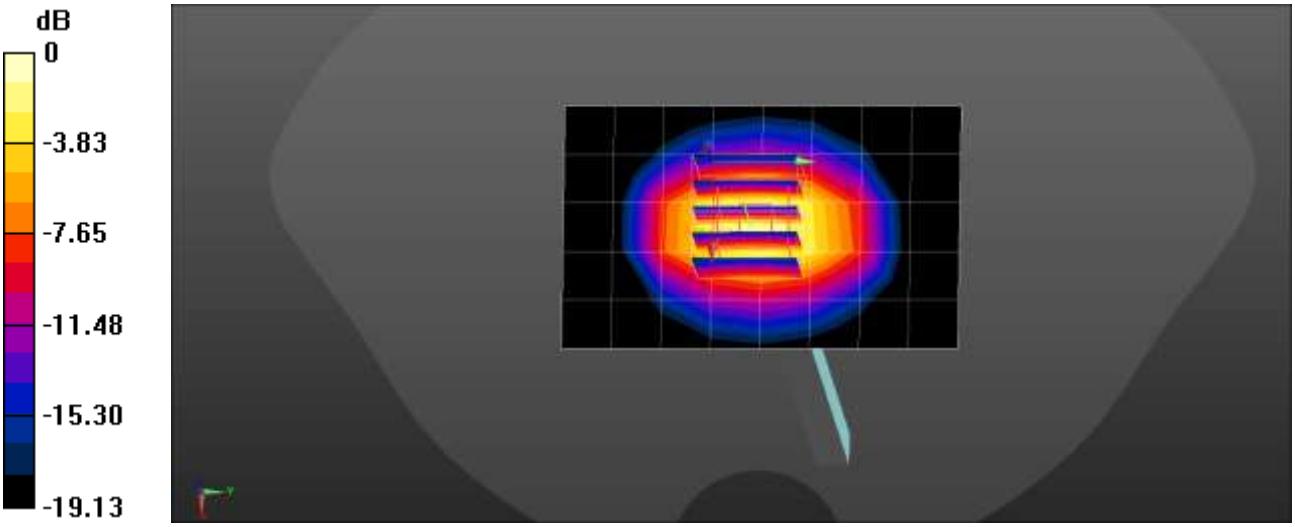
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.412 S/m; ε_r = 40.352; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.81, 8.81, 8.81) @ 1800 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; 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) = 2.13 W/kg

1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.47 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 1.95 W/kg; SAR(10 g) = 0.993 W/kg
Smallest distance from peaks to all points 3 dB below = 9.7 mm
Ratio of SAR at M2 to SAR at M1 = 50.4%
Maximum value of SAR (measured) = 3.14 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

■ **Verification Data (1 900 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.9 ℃
Test Date:	04/25/2022

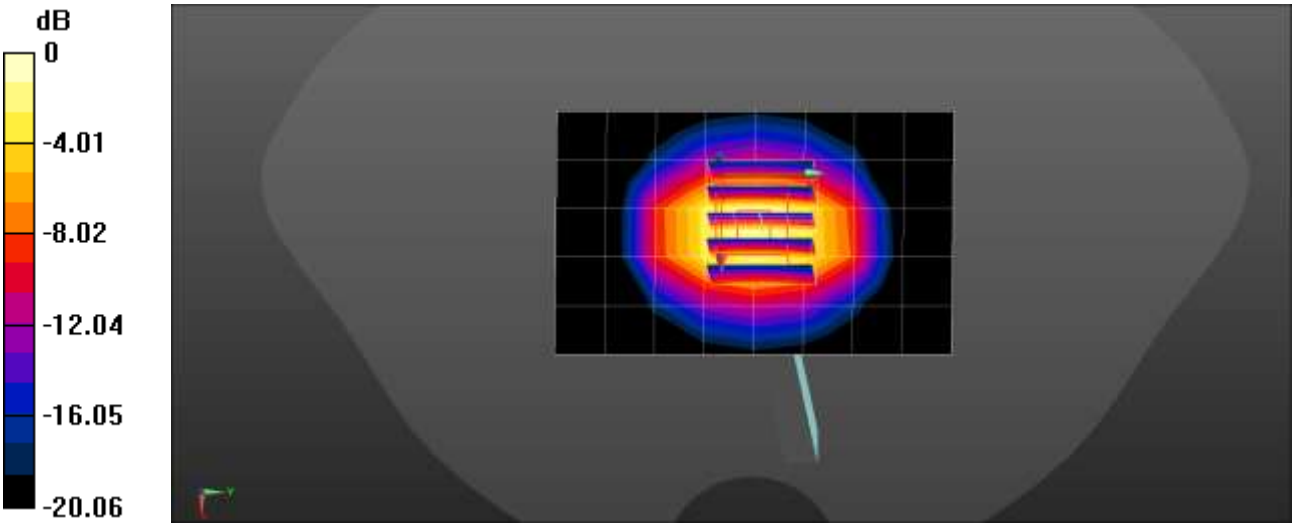
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.424 S/m; ε_r = 40.712; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; 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) = 2.14 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.22 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.93 W/kg
SAR(1 g) = 1.99 W/kg; SAR(10 g) = 1 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 50%
Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 dBW/kg

■ **Verification Data (1 900 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	04/01/2022

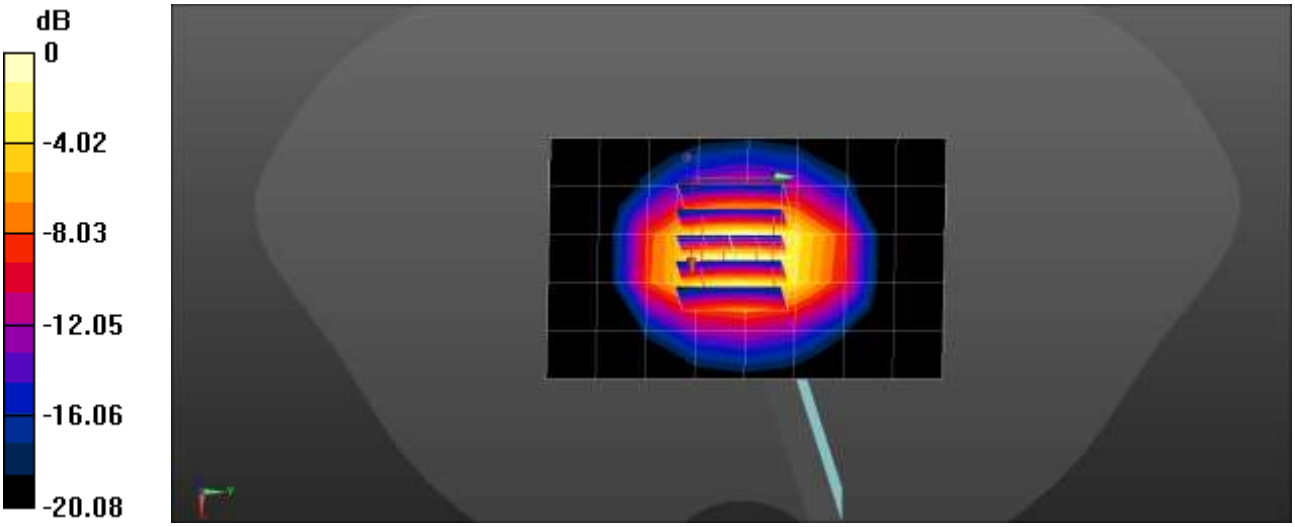
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.416 S/m; ε_r = 41.309; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; 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) = 2.15 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.61 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.84 W/kg
SAR(1 g) = 1.94 W/kg; SAR(10 g) = 0.975 W/kg
Smallest distance from peaks to all points 3 dB below = 9.7 mm
Ratio of SAR at M2 to SAR at M1 = 50.2%
Maximum value of SAR (measured) = 3.14 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

■ **Verification Data (2 600 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	03/21/2022

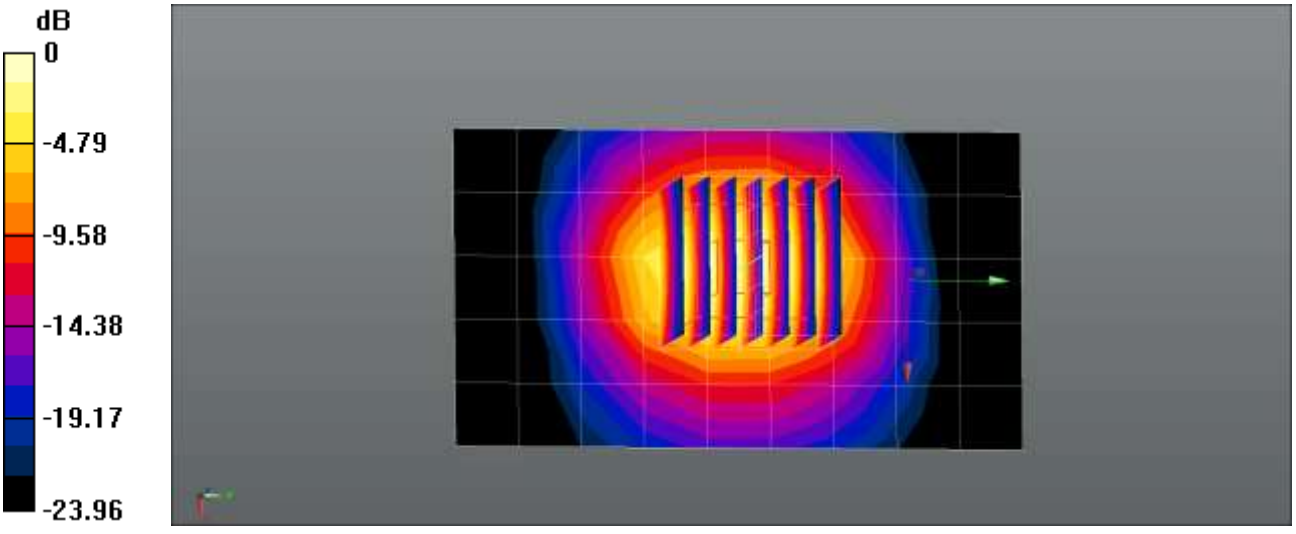
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.977 S/m; ε_r = 37.98; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.57, 4.57, 4.57) @ 2600 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- 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)

2600MHz Verification/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.12 W/kg

2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 41.44 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 5.89 W/kg
SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.18 W/kg
Maximum value of SAR (measured) = 3.58 W/kg



0 dB = 3.58 W/kg = 5.54 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

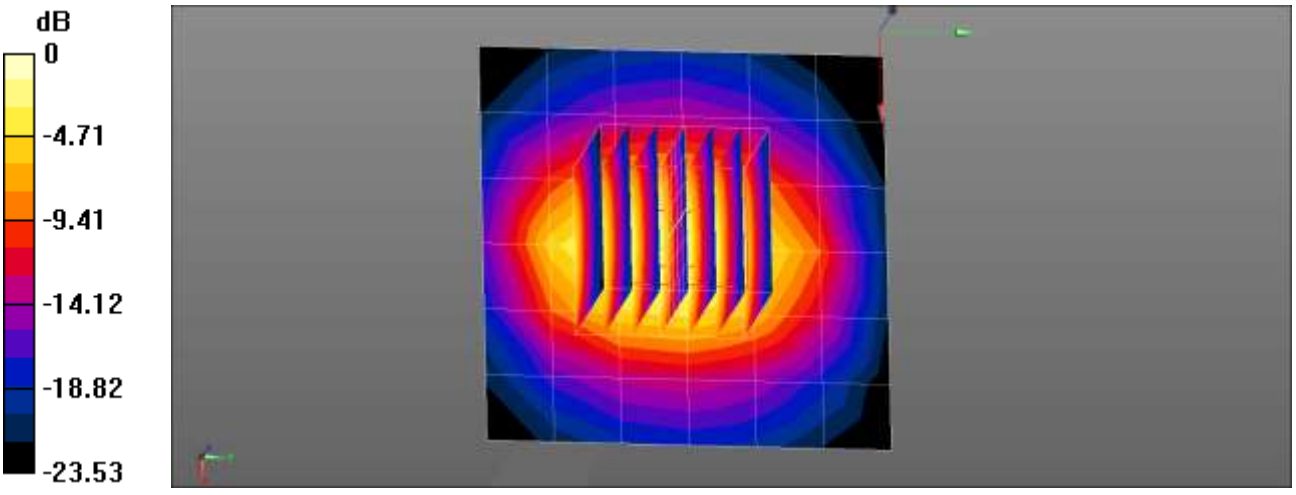
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 19.1 ℃
Test Date: 03/29/2022
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.826 S/m; ε_r = 39.308; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2450 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1629; Calibrated: 2021-07-26
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.28 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 44.31 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 5.50 W/kg
SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 3.36 W/kg



0 dB = 3.36 W/kg = 5.26 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

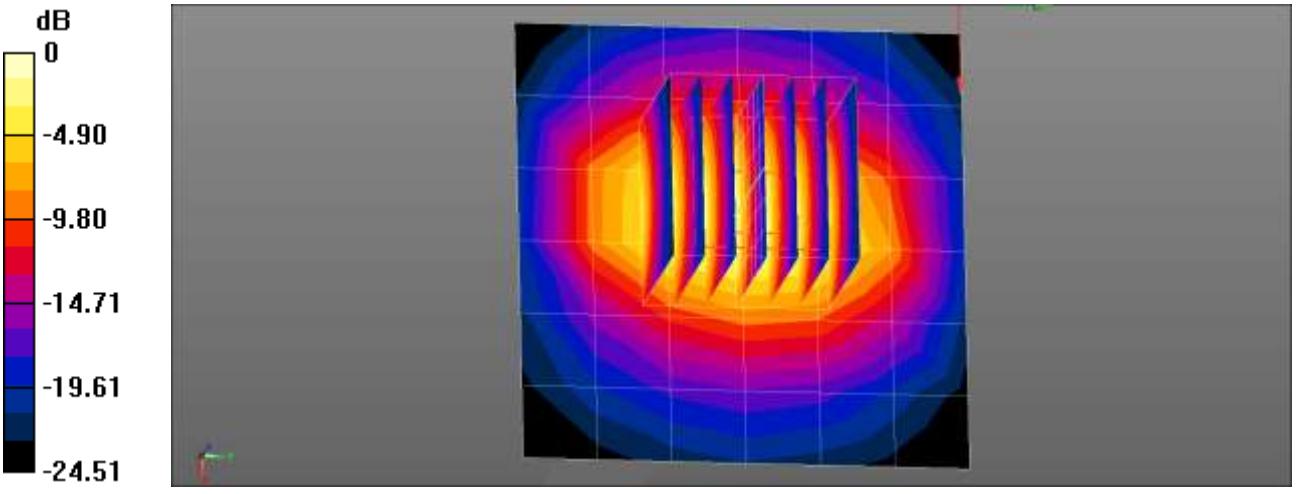
Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 19.0 ℃
Test Date: 03/28/2022
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.787 S/m; ε_r = 37.702; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2450 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.76 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 47.84 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 6.03 W/kg
SAR(1 g) = 2.62 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 4.67 W/kg



0 dB = 4.67 W/kg = 6.69 dBW/kg

■ **Verification Data (2 450 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.5 ℃
Test Date:	03/30/2022

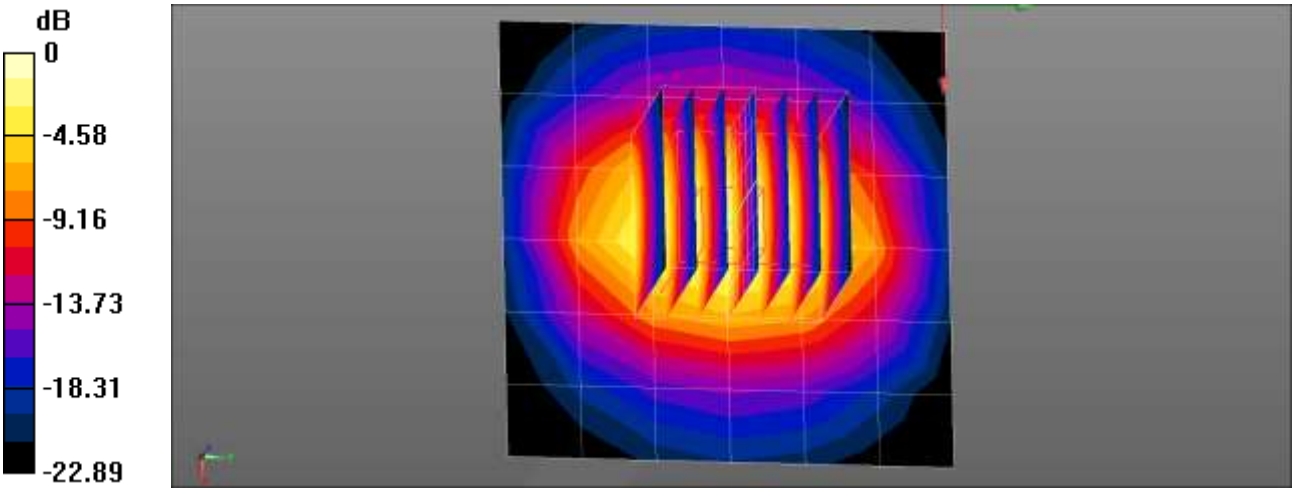
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.828 S/m; ε_r = 39.301; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(4.74, 4.74, 4.74) @ 2450 MHz; Calibrated: 2021-07-28
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0(Front)
- Measurement SW: DASY52, Version 52.10 (4)

2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.44 W/kg

2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 45.12 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 5.80 W/kg
SAR(1 g) = 2.68 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 3.60 W/kg



0 dB = 3.60 W/kg = 5.56 dBW/kg

■ **Verification Data (5 250 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	18.2 ℃
Test Date:	04/27/2022

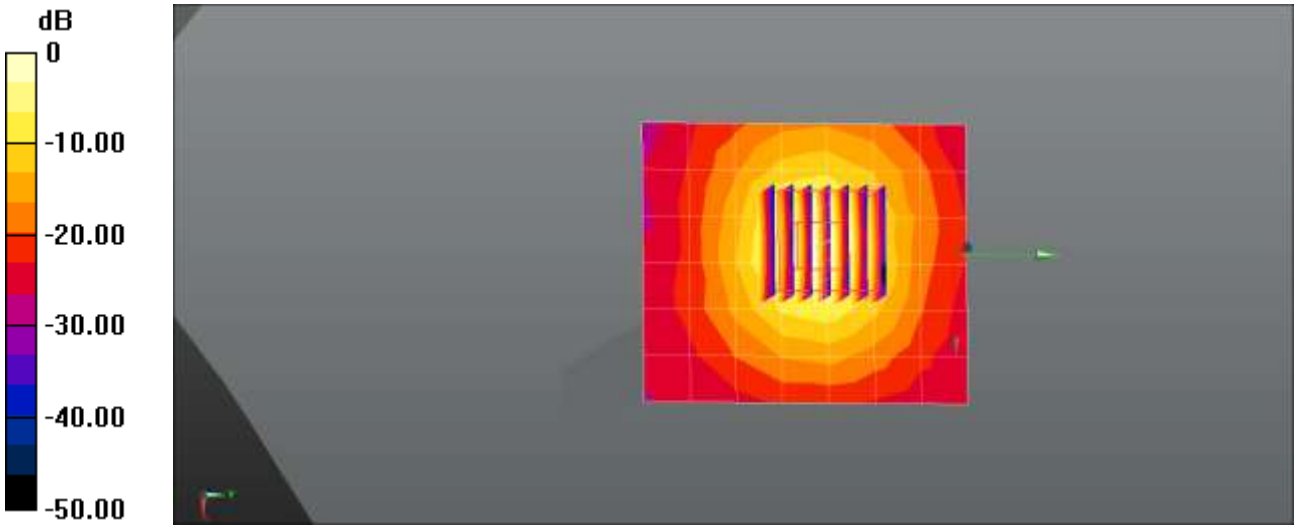
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.658 S/m; ε_r = 36.468; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7702; ConvF(5.54, 5.54, 5.54) @ 5250 MHz; Calibrated: 2022-01-20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1422; Calibrated: 2021-05-19
- Phantom: SAM with CRP v5.0(Right)_2014_03_05; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

5250MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.11 W/kg

5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.99 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 18.6 W/kg
SAR(1 g) = 4.33 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 11.2 W/kg = 10.49 dBW/kg

■ **Verification Data (5 250 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.1 ℃
Test Date:	04/08/2022

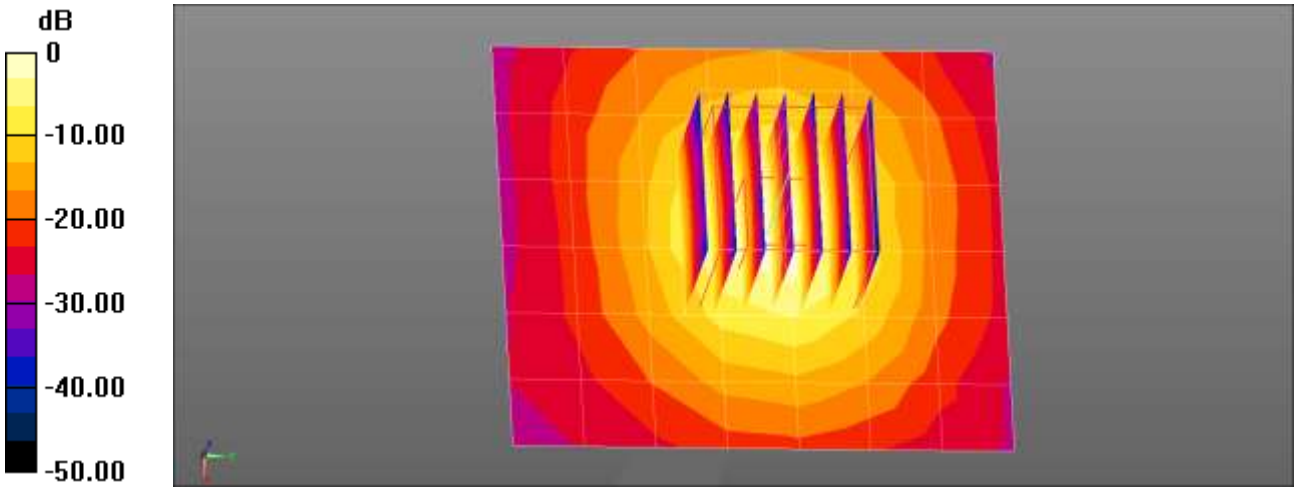
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.658 S/m; ε_r = 36.477; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5.55, 5.55, 5.55) @ 5250 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

5250MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.08 W/kg

5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.86 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 16.1 W/kg
SAR(1 g) = 3.86 W/kg; SAR(10 g) = 1.12 W/kg
Maximum value of SAR (measured) = 9.67 W/kg



0 dB = 9.67 W/kg = 9.85 dBW/kg

■ **Verification Data (5 600 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.0 ℃
Test Date:	04/11/2022

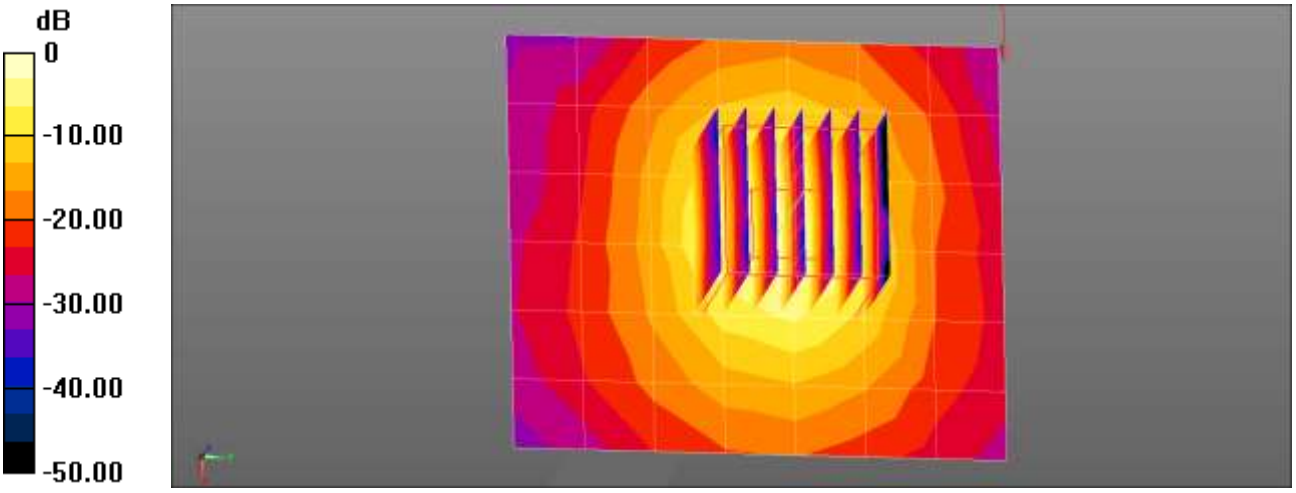
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.931 S/m; ε_r = 36.009; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(4.95, 4.95, 4.95) @ 5600 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

5600MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.59 W/kg

5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.62 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 10.3 W/kg



0 dB = 10.3 W/kg = 10.13 dBW/kg

■ **Verification Data (5 750 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.4 ℃
Test Date:	04/12/2022

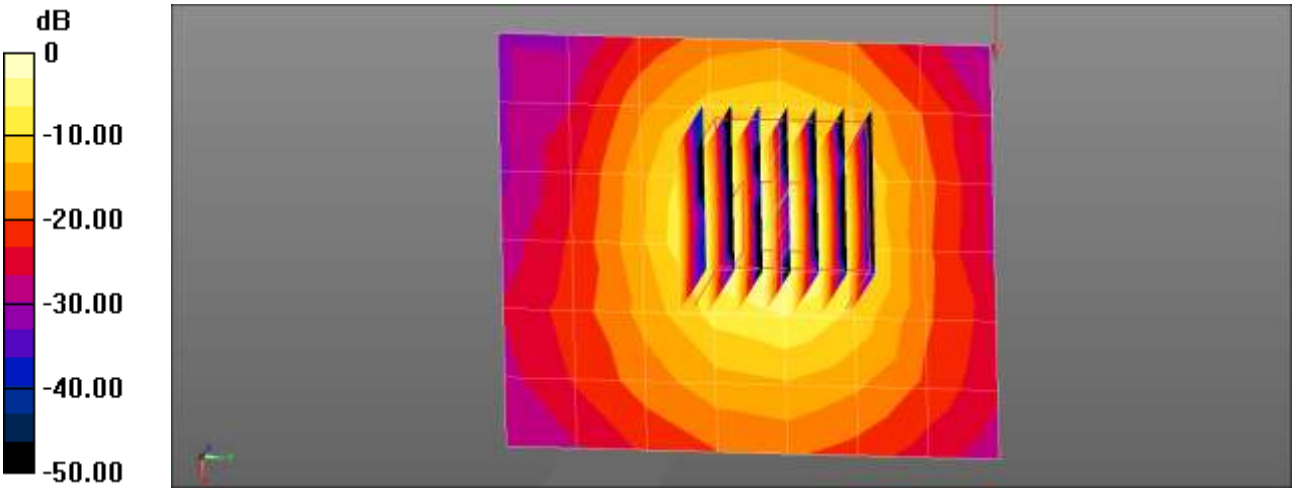
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.222 S/m; ε_r = 35.645; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(5, 5, 5) @ 5750 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn504; Calibrated: 2022-03-01
- Phantom: SAM with CRP v5.0(Right)_2014_03_05
- Measurement SW: DASY52, Version 52.10 (4)

5750MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.12 W/kg

5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.85 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 18.1 W/kg
SAR(1 g) = 3.83 W/kg; SAR(10 g) = 1.09 W/kg
Maximum value of SAR (measured) = 9.97 W/kg



0 dB = 9.97 W/kg = 9.99 dBW/kg

– Extremity

■ **Verification Data (1 900 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	04/04/2022

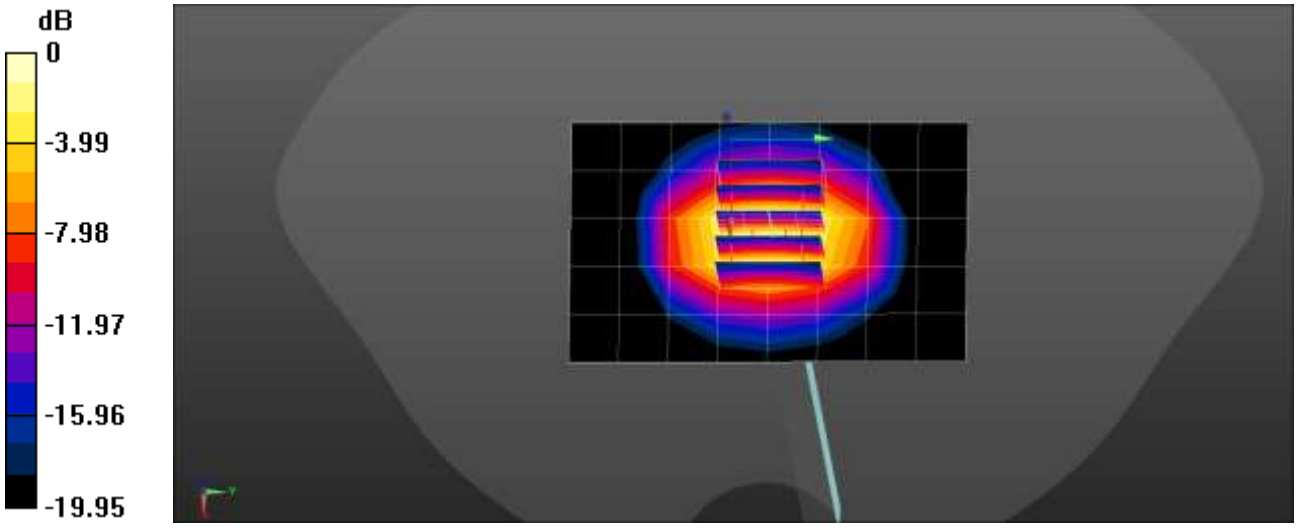
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.415 S/m; ε_r = 41.297; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7655; ConvF(8.42, 8.42, 8.42) @ 1900 MHz; Calibrated: 2021-05-21
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1687; Calibrated: 2021-06-21
- Phantom: Twin-SAM V8.0 (30deg probe tilt) Right-Right; Type: QD 000 P41 Ax; 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) = 2.44 W/kg

1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.79 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.90 W/kg
SAR(1 g) = 1.97 W/kg; SAR(10 g) = 0.992 W/kg
Smallest distance from peaks to all points 3 dB below = 11.2 mm
Ratio of SAR at M2 to SAR at M1 = 50%
Maximum value of SAR (measured) = 3.20 W/kg



0 dB = 3.20 W/kg = 5.05 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
9	7309	EX3DV4	Head	750	1014	2021-06-14	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	835	4d165	2021-08-16	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
9	7309	EX3DV4	Head	835	4d165	2021-08-16	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
14	7655	EX3DV4	Head	1750	2d015	2021-08-17	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
14	7655	EX3DV4	Head	1900	5d061	2021-12-10	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
14	7655	EX3DV4	Head	1900	5d061	2021-12-10	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
12	7680	EX3DV4	Head	2450	965	2021-09-22	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
10	3076	ES3DV3	Head	2450	965	2021-08-14	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
10	3076	EX3DV4	Head	2600	1106	2021-09-10	39.1	1.94	PASS	PASS	PASS	NA	N/A	NA
10	3076	EX3DV4	Head	2600	1106	2021-09-10	39.1	1.94	PASS	PASS	PASS	TDD	PASS	NA
12	7680	EX3DV4	Head	5250	1107	2021-09-22	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
12	7680	EX3DV4	Head	5600	1107	2021-09-22	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
12	7680	EX3DV4	Head	5750	1107	2021-09-22	35.6	5.24	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
14	7655	EX3DV4	Head	1750	2d015	2021-08-17	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
14	7655	EX3DV4	Head	1900	5d061	2021-12-10	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
12	7680	EX3DV4	Head	5250	1107	2021-09-22	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
12	7680	EX3DV4	Head	5600	1107	2021-09-22	35.3	5.05	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.