Appendix B. – SAR Test Plots

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	06/13/2022
Plot No.:	1

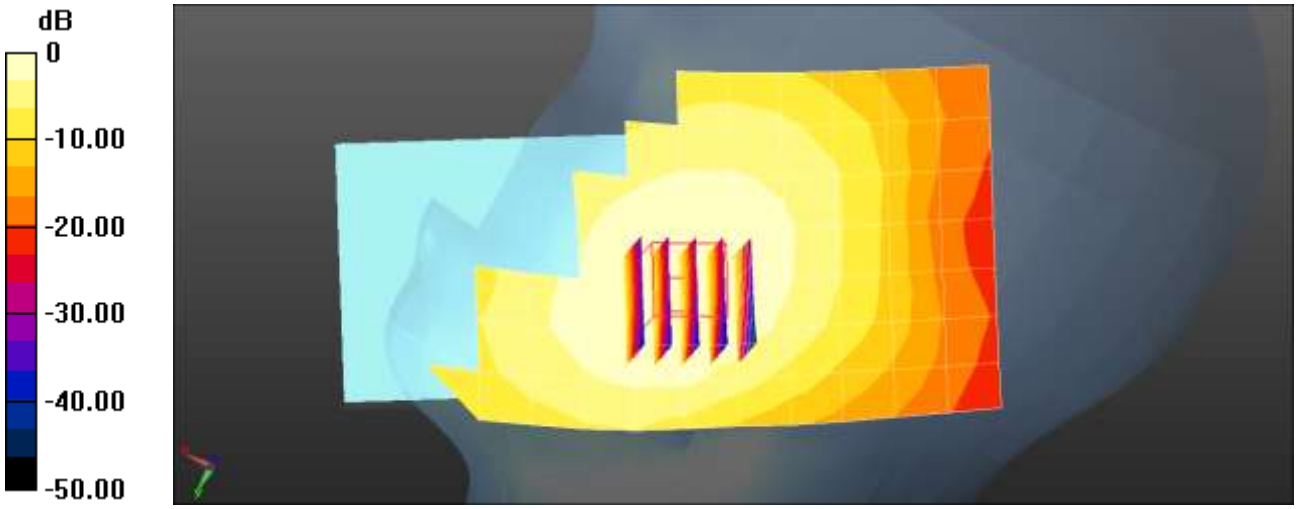
Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:4.14954
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.459; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM850 2Tx Head Right Touch 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.620 W/kg

GSM850 2Tx Head Right Touch 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.131 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.689 W/kg
SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.376 W/kg
Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.620 W/kg = -2.07 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.5 ℃
Test Date:	06/14/2022
Plot No.:	2

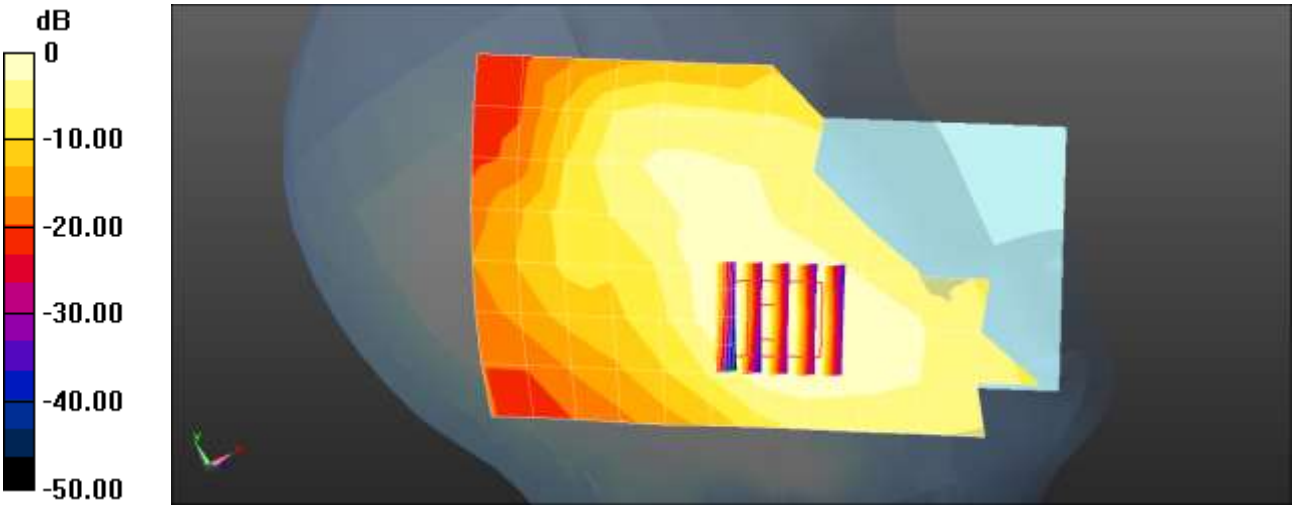
Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.834; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM1900 2Tx Head Left Touch 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.236 W/kg

GSM1900 2Tx Head Left Touch 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.523 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 0.279 W/kg
SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.113 W/kg
Maximum value of SAR (measured) = 0.236 W/kg



0 dB = 0.236 W/kg = -6.27 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.8 ℃
Test Date:	06/15/2022
Plot No.:	3

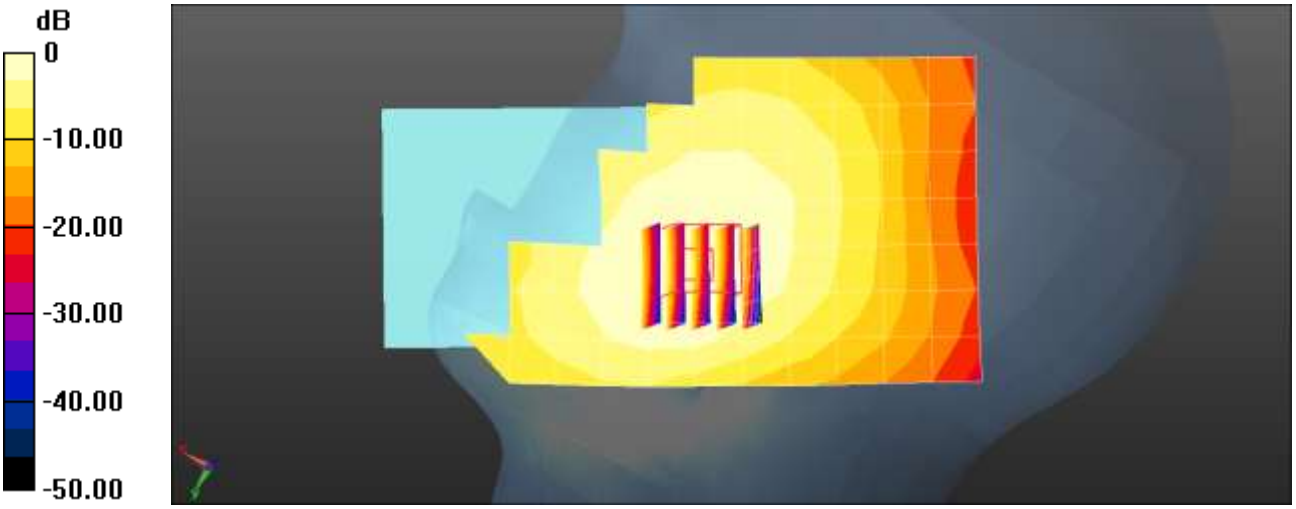
Communication System: UID 0, UMTS850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.474; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- 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) = 0.377 W/kg

UMTS Band 5 Head Right Touch 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.976 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.432 W/kg
SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.229 W/kg
Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.377 W/kg = -4.23 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.5 ℃
Test Date:	07/05/2022
Plot No.:	4

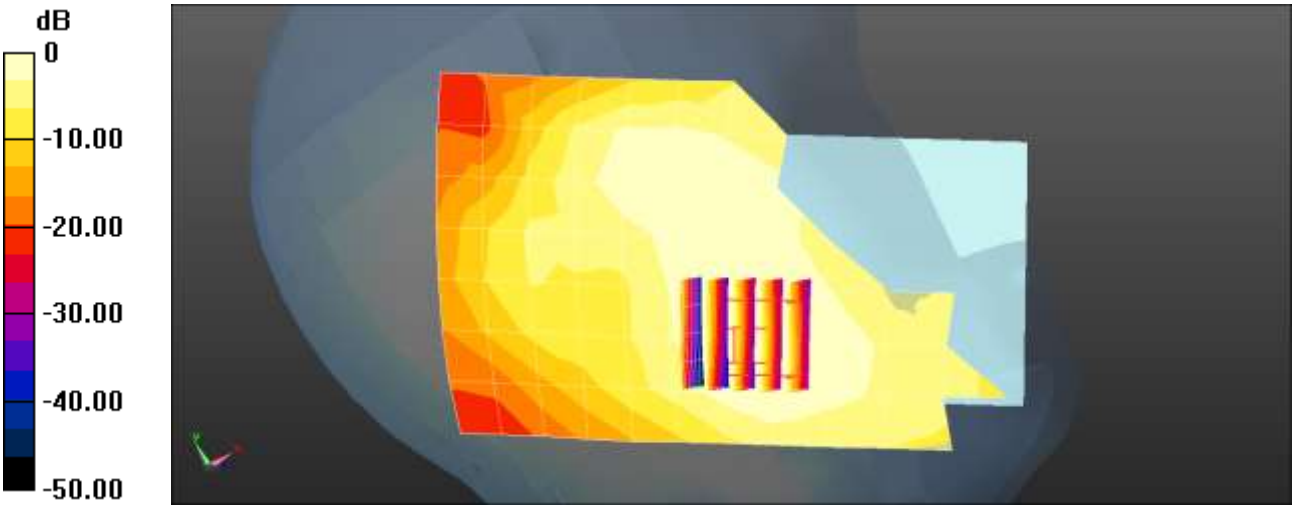
Communication System: UID 0, UMTS IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.317 S/m; ε_r = 39.554; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.15, 8.15, 8.15) @ 1732.4 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

UMTS Band 4 Head Left Touch 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.210 W/kg

UMTS Band 4 Head Left Touch 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.020 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.271 W/kg
SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.109 W/kg
Maximum value of SAR (measured) = 0.222 W/kg



0 dB = 0.210 W/kg = -6.77 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	07/04/2022
Plot No.:	5

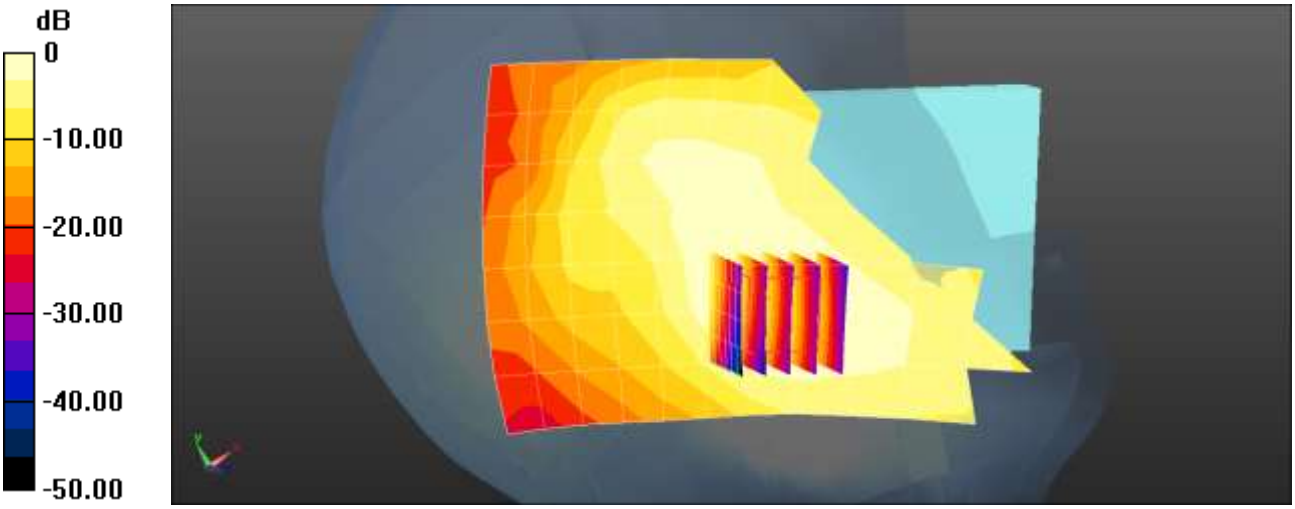
Communication System: UID 0, UMTS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.849; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- 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) = 0.437 W/kg

UMTS Band 2 Head Left Touch 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.232 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.533 W/kg
SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.214 W/kg
Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.437 W/kg = -3.59 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.6 ℃
Ambient Temperature:	18.8 ℃
Test Date:	06/10/2022
Plot No.:	6

Measurement Report for Device, CHEEK, Band 2, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 19100 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Left Head, HSL	CHEEK, 0.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1900.0, 19100	5.05	1.40	38.8

Hardware Setup

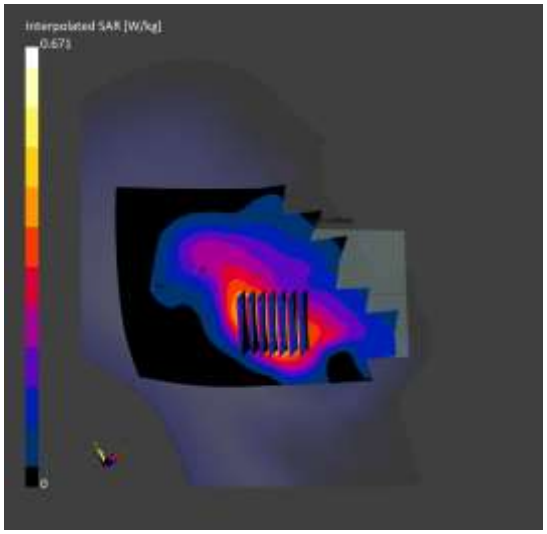
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-14	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.407	0.441
psSAR10g [W/Kg]	0.236	0.274
Power Drift [dB]	-0.14	-0.11
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.4 ℃
Ambient Temperature:	18.6 ℃
Test Date:	06/07/2022
Plot No.:	7

Measurement Report for Device, CHEEK, Band 12, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23095 (707.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Right Head, HSL	CHEEK, 0.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	6.33	0.859	43.4

Hardware Setup

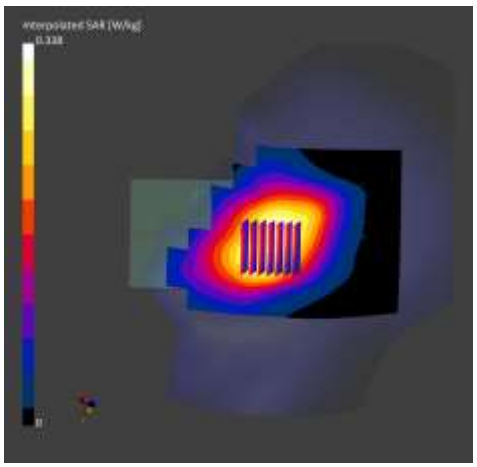
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-07	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.239	0.271
psSAR10g [W/Kg]	0.167	0.209
Power Drift [dB]	-0.17	0.10
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.4 ℃
Ambient Temperature:	20.6 ℃
Test Date:	06/08/2022
Plot No.:	8

Measurement Report for Device, CHEEK, Band 13, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23230 (782.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Right Head, HSL	CHEEK, 0.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	6.33	0.879	41.6

Hardware Setup

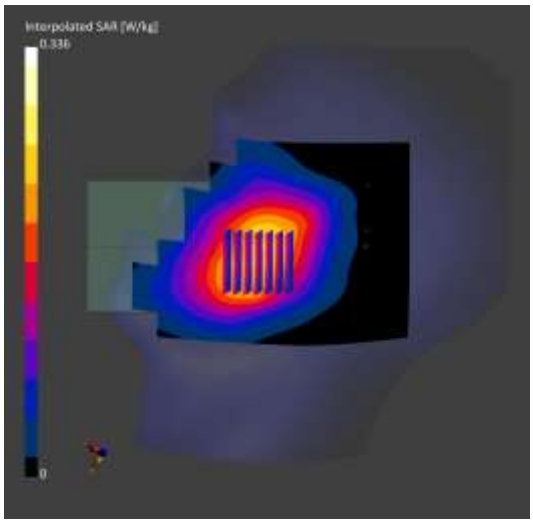
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-07	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.242	0.266
psSAR10g [W/Kg]	0.167	0.203
Power Drift [dB]	-0.13	-0.10
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.5 ℃
Ambient Temperature:	20.7 ℃
Test Date:	06/09/2022
Plot No.:	9

Measurement Report for Device, CHEEK, Band 26 E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 26865 (831.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Right Head, HSL	CHEEK, 0.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	5.98	0.910	40.4

Hardware Setup

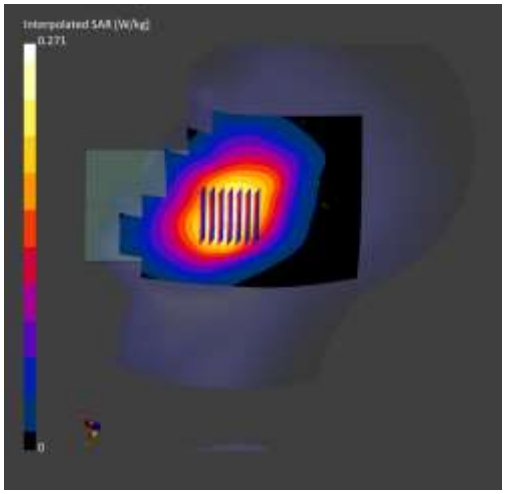
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-08	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.196	0.213
psSAR10g [W/Kg]	0.134	0.160
Power Drift [dB]	-0.15	-0.16
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.3 ℃
Test Date:	06/13/2022
Plot No.:	10

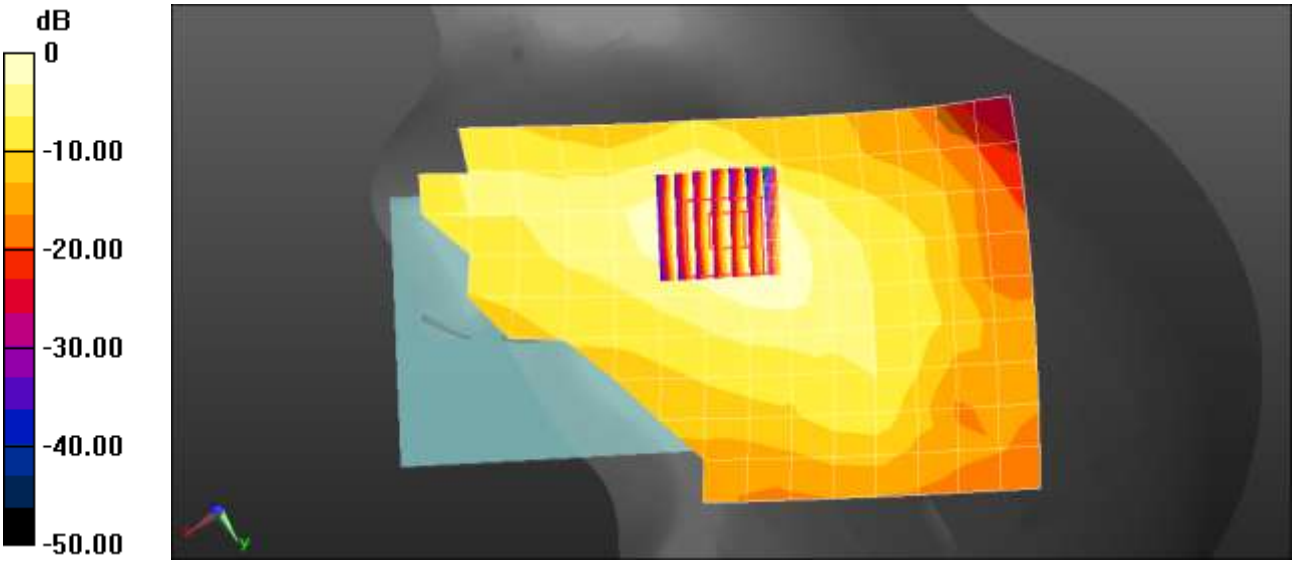
Communication System: UID 0, LTE Band41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58052
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.911 S/m; ε_r = 38.033; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2593 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right;
- 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) = 0.537 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 = 4.779 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.756 W/kg
SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.235 W/kg
Maximum value of SAR (measured) = 0.638 W/kg



0 dB = 0.537 W/kg = -2.70 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.8 ℃
Test Date:	06/14/2022
Plot No.:	11

Measurement Report for Device, CHEEK, Band 66, E-UTRA/FDD, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)
RB Position: Mid Antenna Cfg: SISO, Channel 132072 (1720.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Left Head, HSL	CHEEK, 0.00	Band 66, E-UTRA/FDD	LTE-FDD, 10297-AAD	1720.0, 132072	5.27	1.30	39.8

Hardware Setup

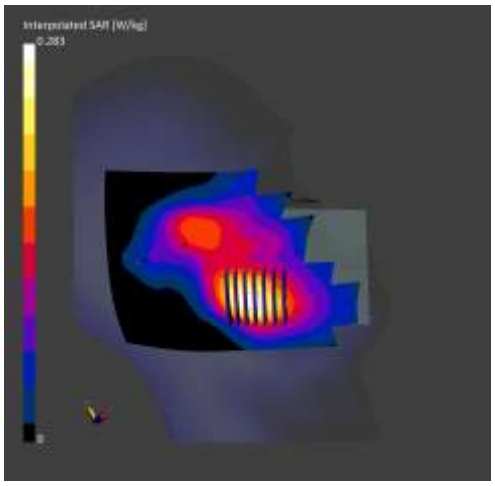
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-14	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.168	0.186
psSAR10g [W/Kg]	0.100	0.118
Power Drift [dB]	-0.13	-0.07
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/28/2022
Plot No.:	12

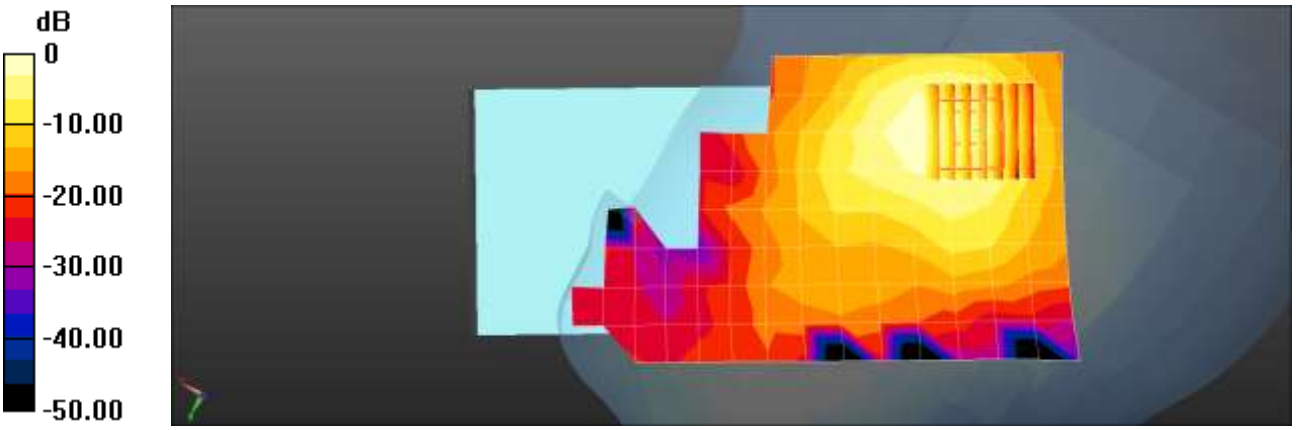
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.826 S/m; ε_r = 39.183; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2437 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Head Right Touch 1Mbps 6ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.356 W/kg

802.11b Head Right Touch 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.089 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.450 W/kg
SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.121 W/kg
Maximum value of SAR (measured) = 0.358 W/kg



0 dB = 0.356 W/kg = -4.49 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.9 ℃
Test Date:	06/24/2022
Plot No.:	13

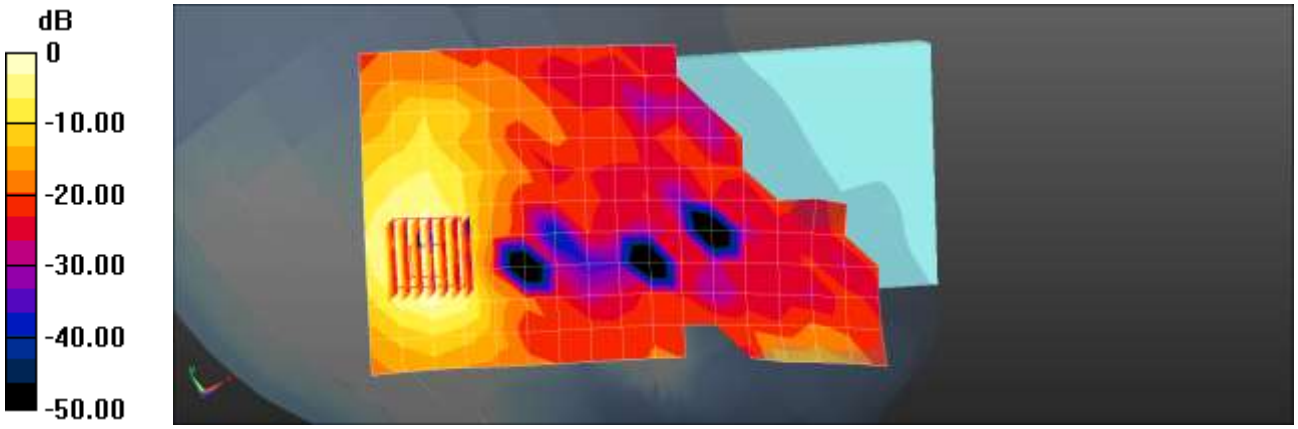
Communication System: UID 0, WiFI5GHz ac80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5775 MHz; σ = 5.241 S/m; ε_r = 34.406; ρ = 1000 kg/m^3
Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.7, 4.7, 4.7) @ 5775 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

802.11ac80 Head Left Tilt MCS0 155ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.663 W/kg

802.11ac80 Head Left Tilt MCS0 155ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 6.025 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.04 W/kg
SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.111 W/kg
Maximum value of SAR (measured) = 0.678 W/kg



0 dB = 0.663 W/kg = -1.78 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	06/29/2022
Plot No.:	14

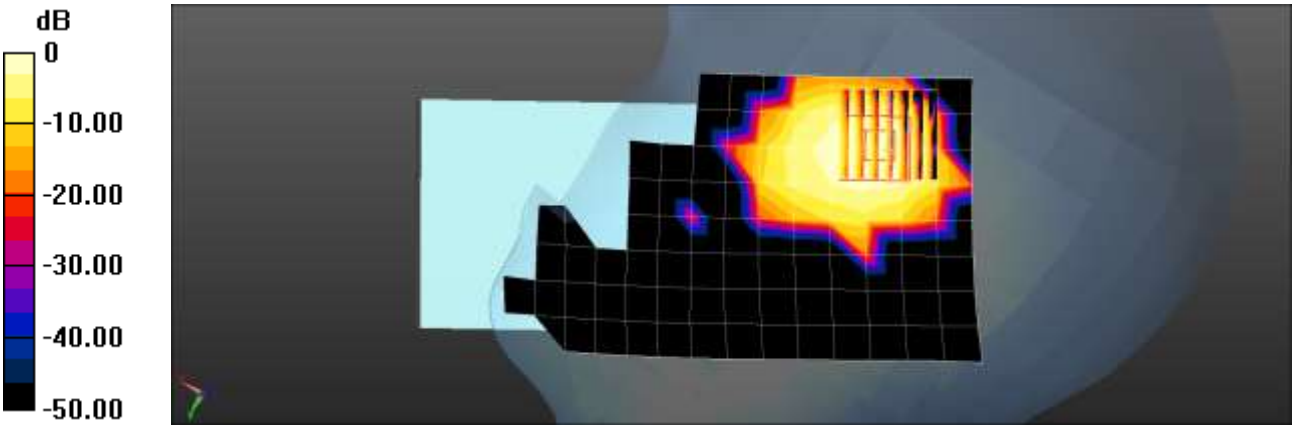
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.307
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.83 S/m; ε_r = 39.195; ρ = 1000 kg/m^3
Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2441 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

Bluetooth Head Right Touch DH5 39ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0734 W/kg

Bluetooth Head Right Touch DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.405 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.106 W/kg
SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.023 W/kg
Maximum value of SAR (measured) = 0.0819 W/kg



0 dB = 0.0734 W/kg = -11.34 dBW/kg

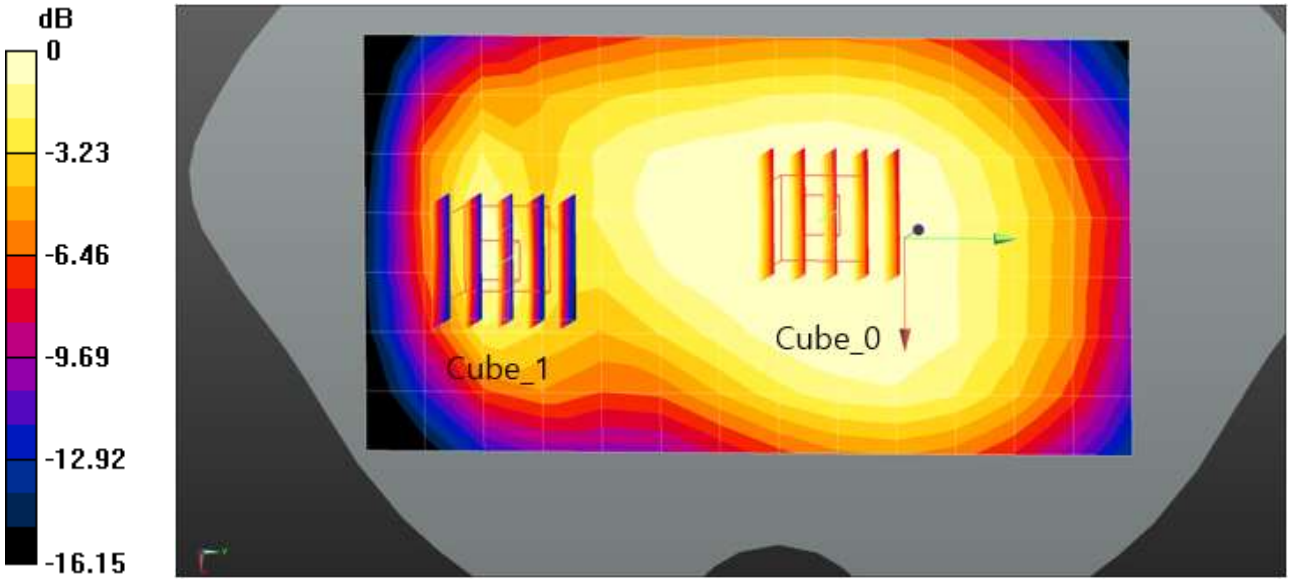
Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	06/13/2022
Plot No.:	15

Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:4.14954
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.459; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM850 2Tx Bodyworn Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.625 W/kg
GSM850 2Tx Bodyworn Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.11 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.708 W/kg
SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.357 W/kg
Maximum value of SAR (measured) = 0.635 W/kg
GSM850 2Tx Bodyworn Rear 190ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.11 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.654 W/kg
SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.206 W/kg
Maximum value of SAR (measured) = 0.551 W/kg



0 dB = 0.551 W/kg = -2.59 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.5 ℃
Test Date:	06/14/2022
Plot No.:	16

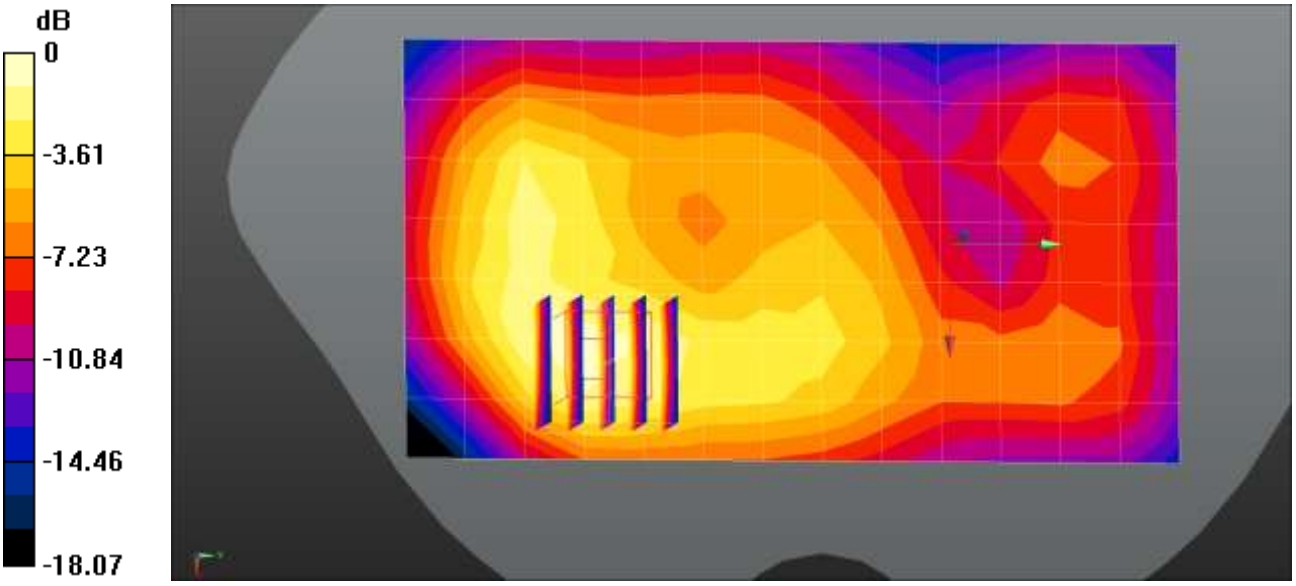
Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.834; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM1900 2Tx Bodyworn Rear 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.343 W/kg

GSM1900 2Tx Bodyworn Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.56 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.471 W/kg
SAR(1 g) = 0.253 W/kg; SAR(10 g) = 0.140 W/kg
Maximum value of SAR (measured) = 0.379 W/kg



0 dB = 0.379 W/kg = -4.21 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.8 ℃
Test Date:	06/15/2022
Plot No.:	17

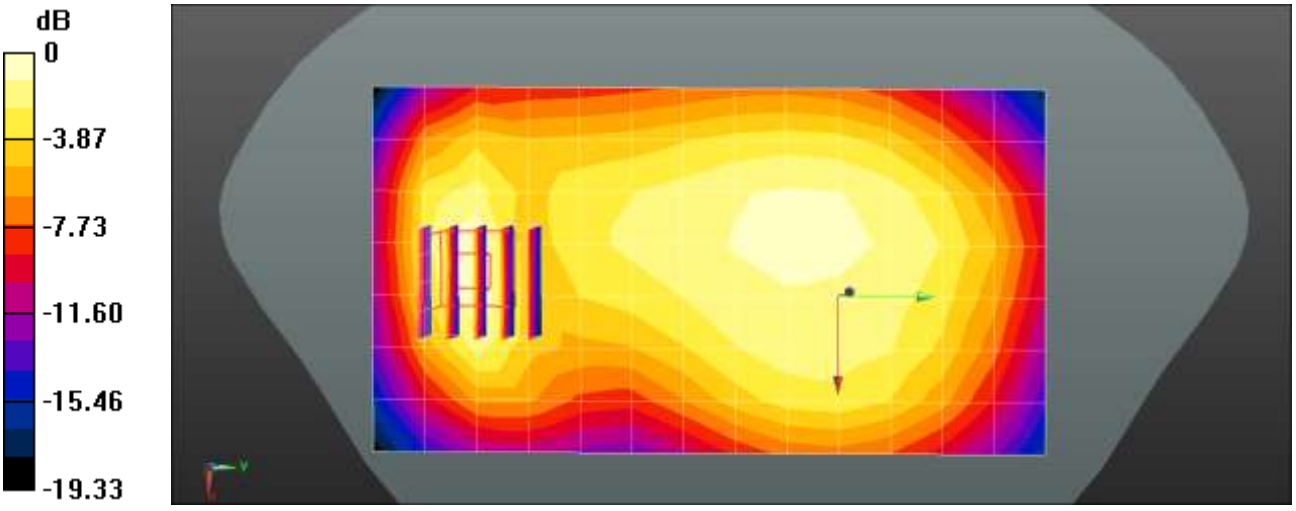
Communication System: UID 0, UMTS850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.474; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- 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) = 0.492 W/kg

UMTS Band 5 BodyWorn Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.85 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.617 W/kg
SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.192 W/kg
Maximum value of SAR (measured) = 0.512 W/kg



0 dB = 0.492 W/kg = -3.08 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.5 ℃
Test Date:	07/05/2022
Plot No.:	18

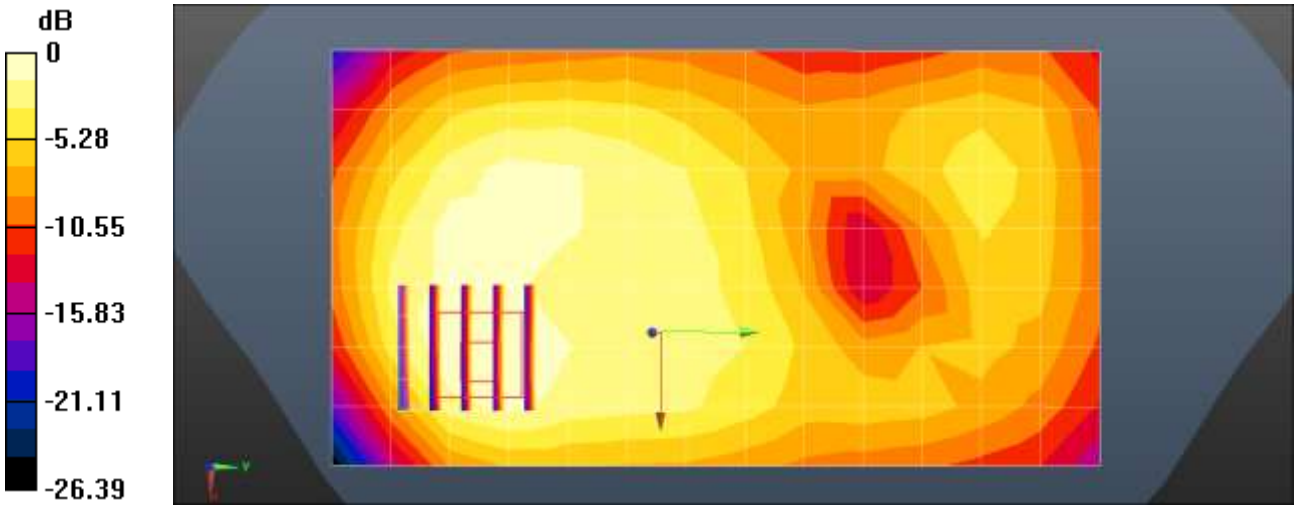
Communication System: UID 0, UMTS IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.317 S/m; ε_r = 39.554; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.15, 8.15, 8.15) @ 1732.4 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

UMTS Band 4 BodyWorn Rear 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.476 W/kg

UMTS Band 4 BodyWorn Rear 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.07 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.651 W/kg
SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.201 W/kg
Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.476 W/kg = -3.22 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	07/04/2022
Plot No.:	19

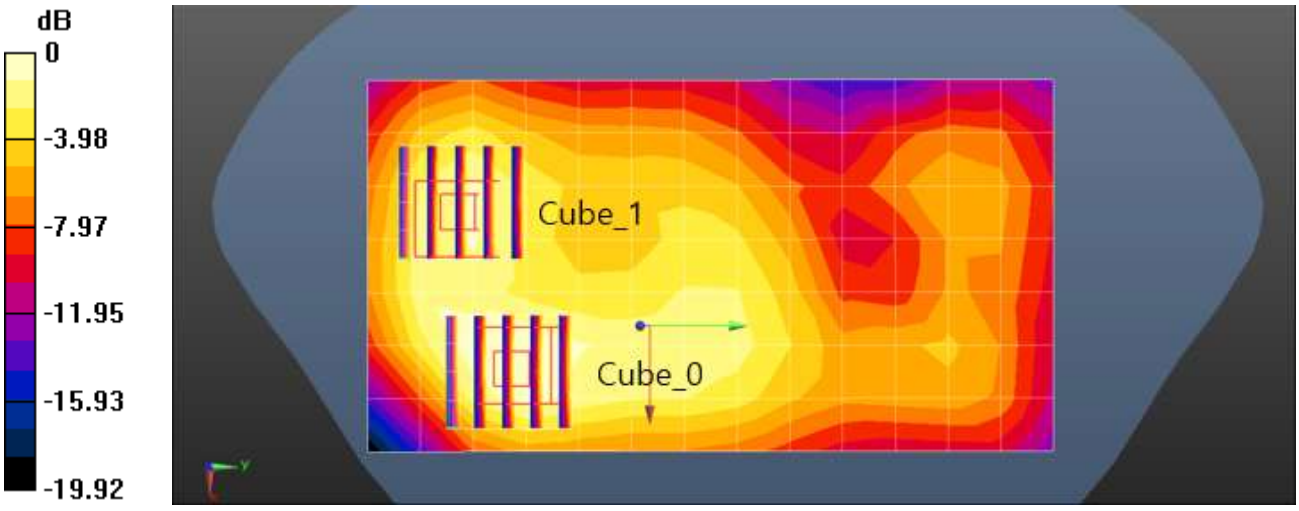
Communication System: UID 0, UMTS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.849; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

UMTS Band 2 BodyWorn Rear 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.631 W/kg

UMTS Band 2 BodyWorn Rear 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.61 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.879 W/kg
SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.263 W/kg
Maximum value of SAR (measured) = 0.718 W/kg
UMTS Band 2 BodyWorn Rear 9400ch/Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.61 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.647 W/kg
SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.221 W/kg
Maximum value of SAR (measured) = 0.539 W/kg



0 dB = 0.631 W/kg = -2.00 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.6 ℃
Ambient Temperature:	18.8 ℃
Test Date:	06/10/2022
Plot No.:	20

Measurement Report for Device, BACK, Band 2, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 19100 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1900.0, 19100	5.05	1.40	38.8

Hardware Setup

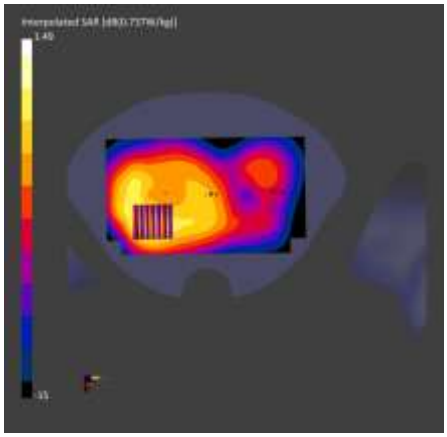
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-22	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.600	0.627
psSAR10g [W/Kg]	0.344	0.371
Power Drift [dB]	0.05	0.01
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.4 ℃
Ambient Temperature:	18.6 ℃
Test Date:	06/07/2022
Plot No.:	21

Measurement Report for Device, BACK, Band 12, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23095 (707.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	10.01	0.859	43.4

Hardware Setup

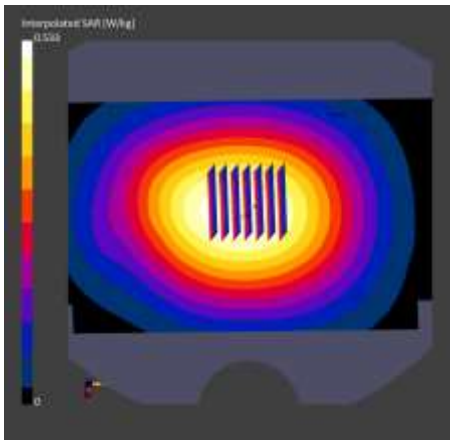
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-10	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn652, 2022-01-24

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.356	0.365
psSAR10g [W/Kg]	0.254	0.266
Power Drift [dB]	-0.18	-0.09
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.4 ℃
Ambient Temperature:	20.6 ℃
Test Date:	06/08/2022
Plot No.:	22

Measurement Report for Device, BACK, Band 13, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23230 (782.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	10.01	0.879	41.6

Hardware Setup

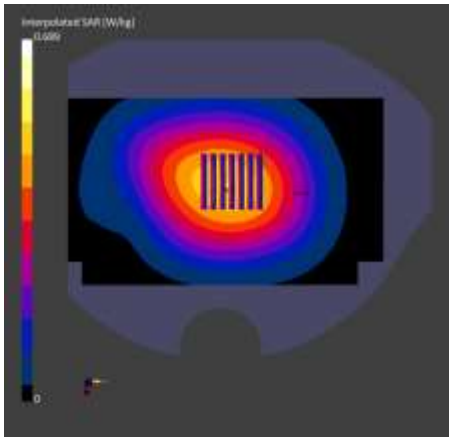
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-09	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn652, 2022-01-24

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.459	0.470
psSAR10g [W/Kg]	0.325	0.343
Power Drift [dB]	-0.18	-0.09
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.5 ℃
Ambient Temperature:	20.7 ℃
Test Date:	06/09/2022
Plot No.:	23

Measurement Report for Device, BACK, Band 26 E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 26865 (831.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 15.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	9.64	0.910	40.4

Hardware Setup

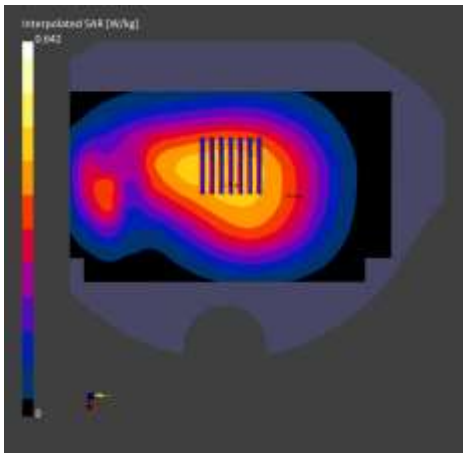
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-09	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn652, 2022-01-24

Scans Setup

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

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.421	0.432
psSAR10g [W/Kg]	0.298	0.320
Power Drift [dB]	-0.17	-0.06
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.1 ℃
Ambient Temperature:	21.3 ℃
Test Date:	06/13/2022
Plot No.:	24

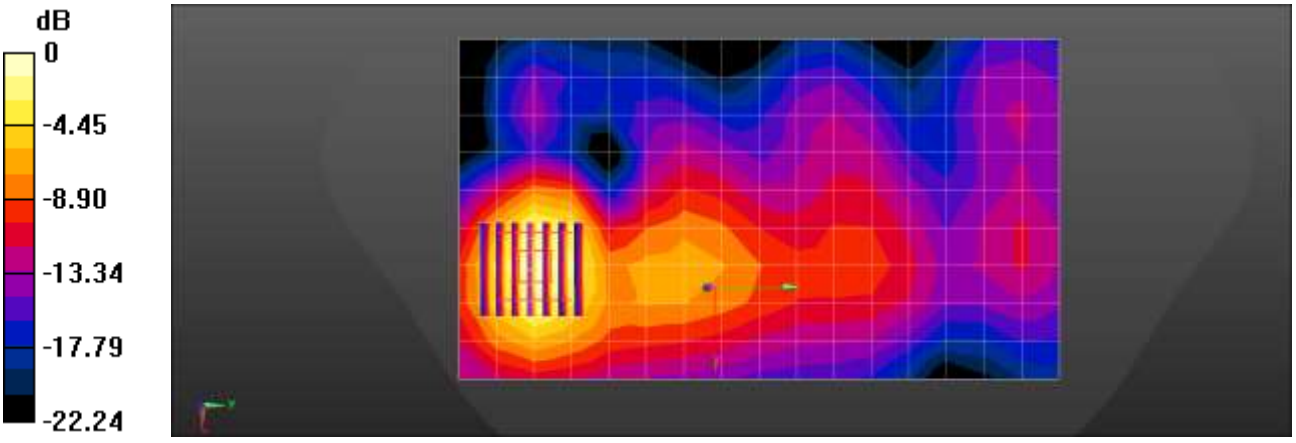
Communication System: UID 0, LTE Band41 (0); Frequency: 2549.5 MHz;Duty Cycle: 1:1.58052
Medium parameters used: f = 2550 MHz; σ = 1.871 S/m; ε_r = 38.236; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2549.5 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right;
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 41 Body worn Rear QPSK 20MHz 1RB 99offset 40185ch/Area Scan (10x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.05 W/kg

LTE Band 41 Body worn Rear QPSK 20MHz 1RB 99offset 40185ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.108 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.675 W/kg; SAR(10 g) = 0.332 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



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

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.8 ℃
Test Date:	06/14/2022
Plot No.:	25

Measurement Report for Device, FRONT, Band 66, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 132322 (1745.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	Band 66, E-UTRA/FDD	LTE-FDD, 10169-CAE	1745.0, 132322	5.27	1.33	39.6

Hardware Setup

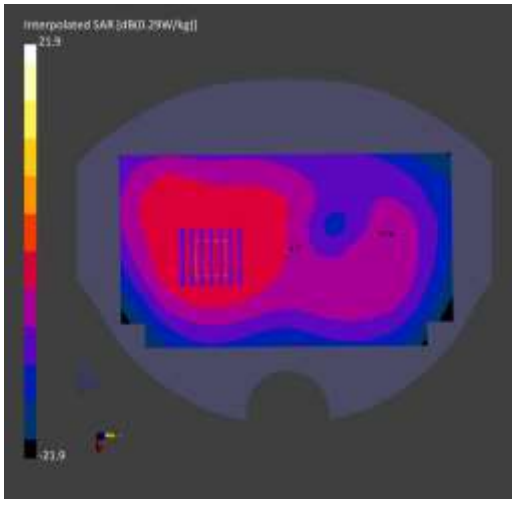
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-23	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.252	0.269
psSAR10g [W/Kg]	0.161	0.187
Power Drift [dB]	0.01	-0.01
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/28/2022
Plot No.:	26

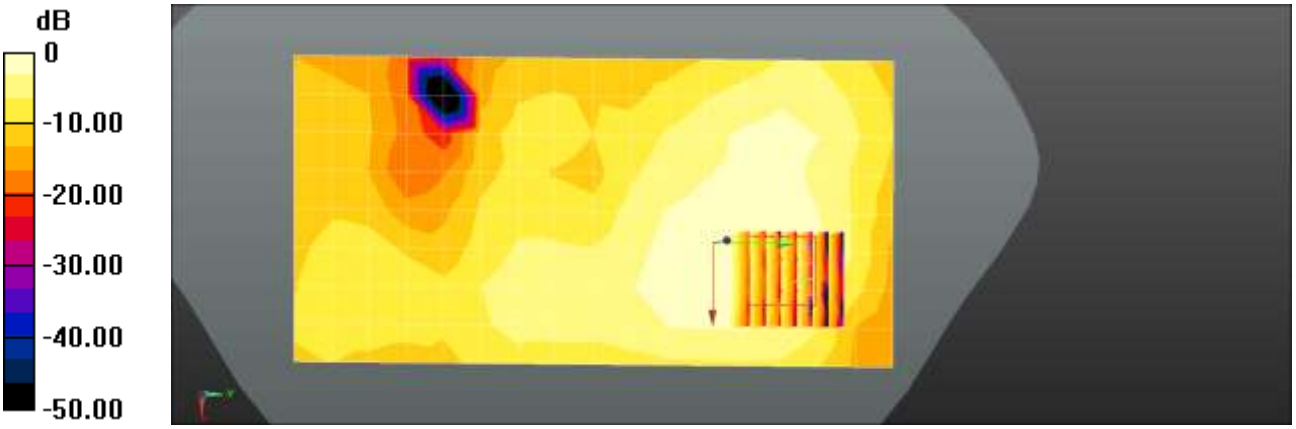
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.847 S/m; ε_r = 39.227; ρ = 1000 kg/m^3
Phantom section: Flat Section

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 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

802.11b BodyWorn Rear 1Mbps 11ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.114 W/kg

802.11b BodyWorn Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.336 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.151 W/kg
SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.035 W/kg
Maximum value of SAR (measured) = 0.114 W/kg



0 dB = 0.114 W/kg = -9.43 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.9 ℃
Test Date:	06/24/2022
Plot No.:	27

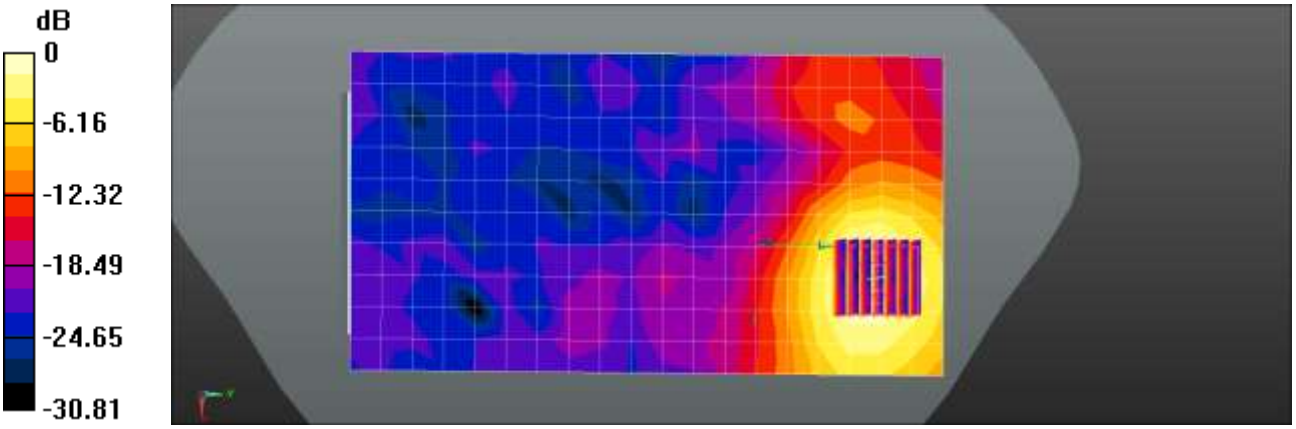
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.234 S/m; ε_r = 34.371; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.7, 4.7, 4.7) @ 5745 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Bodyworn Rear 6Mbps 149ch/Area Scan (11x20x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.30 W/kg

802.11a Bodyworn Rear 6Mbps 149ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 1.034 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.25 W/kg
SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.247 W/kg
Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	06/29/2022
Plot No.:	28

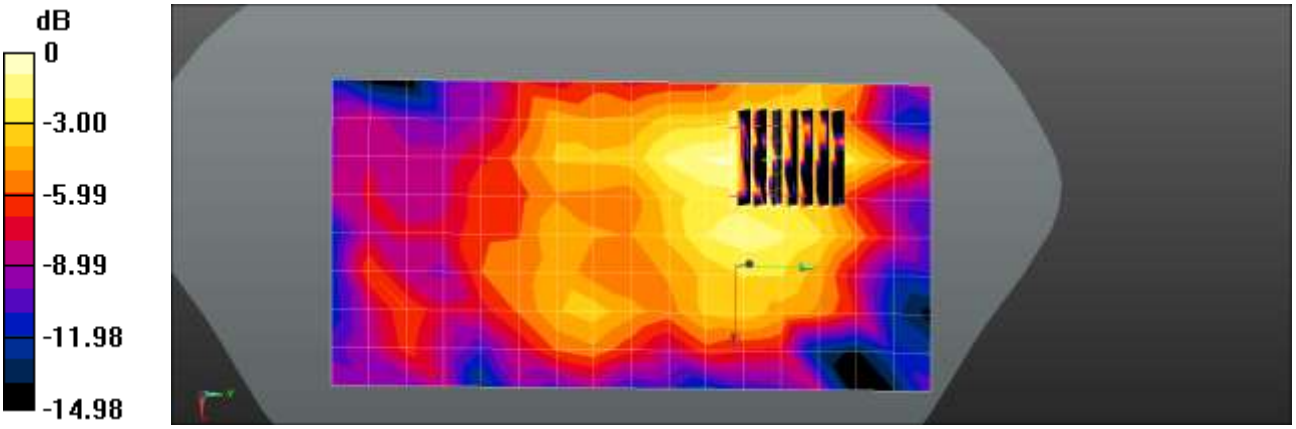
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.307
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.83 S/m; ε_r = 39.195; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2441 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

Bluetooth BodyWorn Front DH5 39ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0127 W/kg

Bluetooth BodyWorn Front DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.7860 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.0310 W/kg
SAR(1 g) = 0.00637 W/kg; SAR(10 g) = 0.00266 W/kg
Maximum value of SAR (measured) = 0.0103 W/kg



0 dB = 0.0127 W/kg = -18.96 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.3 ℃
Test Date:	06/13/2022
Plot No.:	29

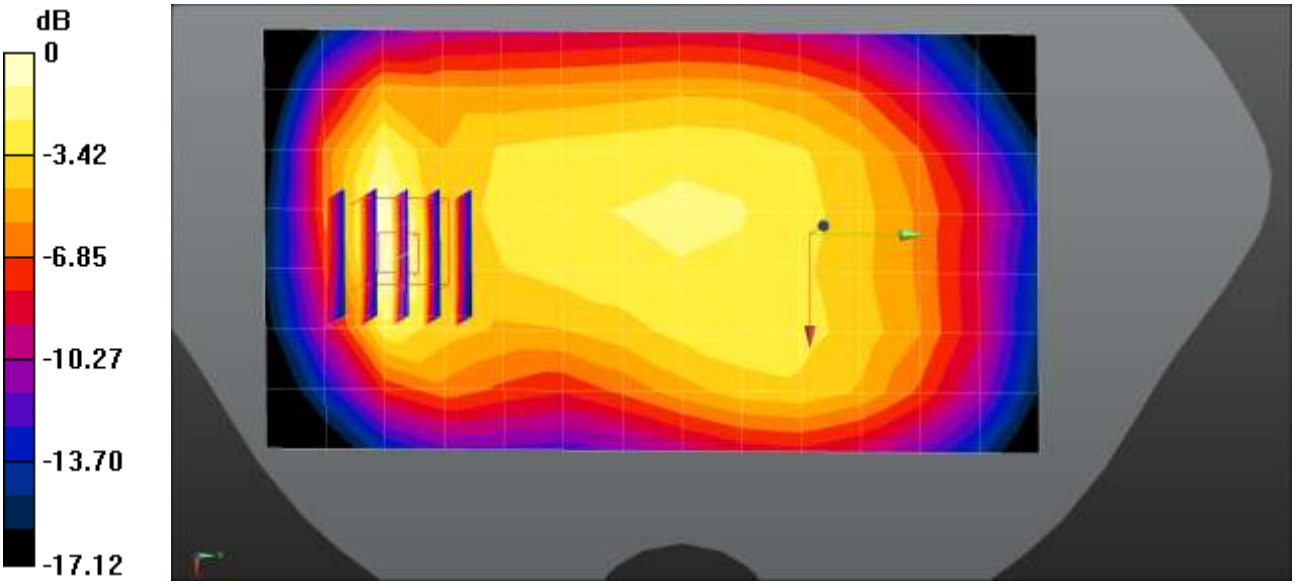
Communication System: UID 0, GSM850 GPRS 2TX (0); Frequency: 836.6 MHz;Duty Cycle: 1:4.14954
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.459; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM850 2Tx Body Rear 190ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.24 W/kg

GSM850 2TxBody Rear 190ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.97 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.451 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.5 ℃
Test Date:	06/14/2022
Plot No.:	30

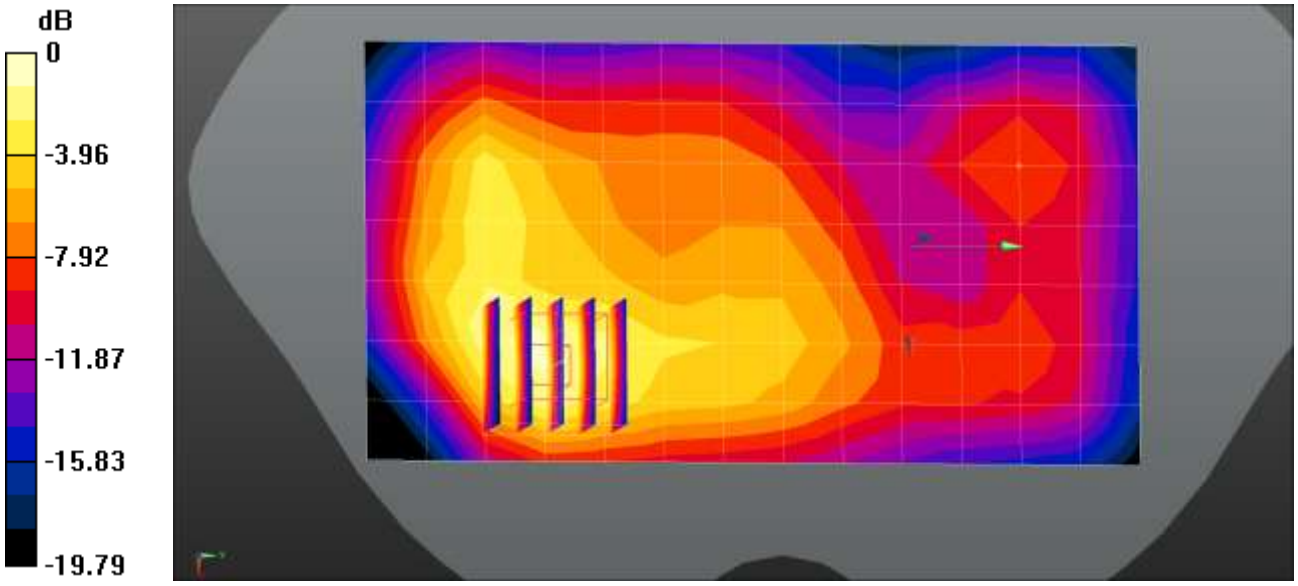
Communication System: UID 0, GSM 1900 2TX (0); Frequency: 1880 MHz;Duty Cycle: 1:4.14954
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.834; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

GSM1900 2Tx Body Rear 661ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.633 W/kg

GSM1900 2Tx Body Rear 661ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.05 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.935 W/kg
SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.251 W/kg
Maximum value of SAR (measured) = 0.750 W/kg



0 dB = 0.750 W/kg = -1.25 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.8 ℃
Test Date:	06/15/2022
Plot No.:	31

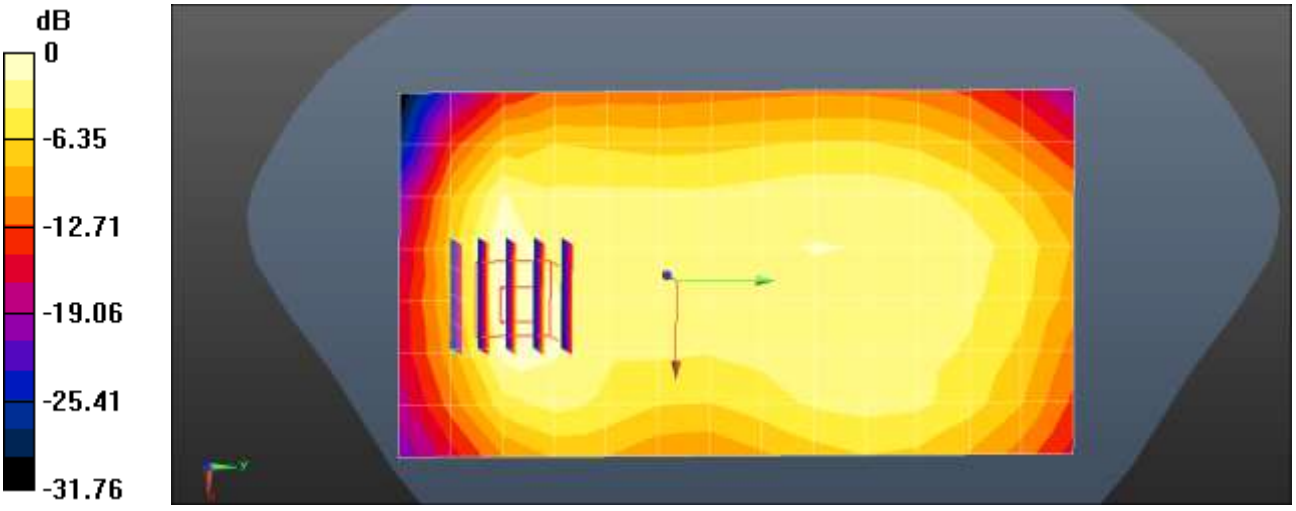
Communication System: UID 0, UMTS850 (0); Frequency: 836.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.913 S/m; ε_r = 40.474; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 836.6 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- 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) = 0.700 W/kg

UMTS Band 5 Body Rear 4183ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.99 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.05 W/kg
SAR(1 g) = 0.550 W/kg; SAR(10 g) = 0.295 W/kg
Maximum value of SAR (measured) = 0.857 W/kg



0 dB = 0.700 W/kg = -1.55 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.5 ℃
Test Date:	07/05/2022
Plot No.:	32

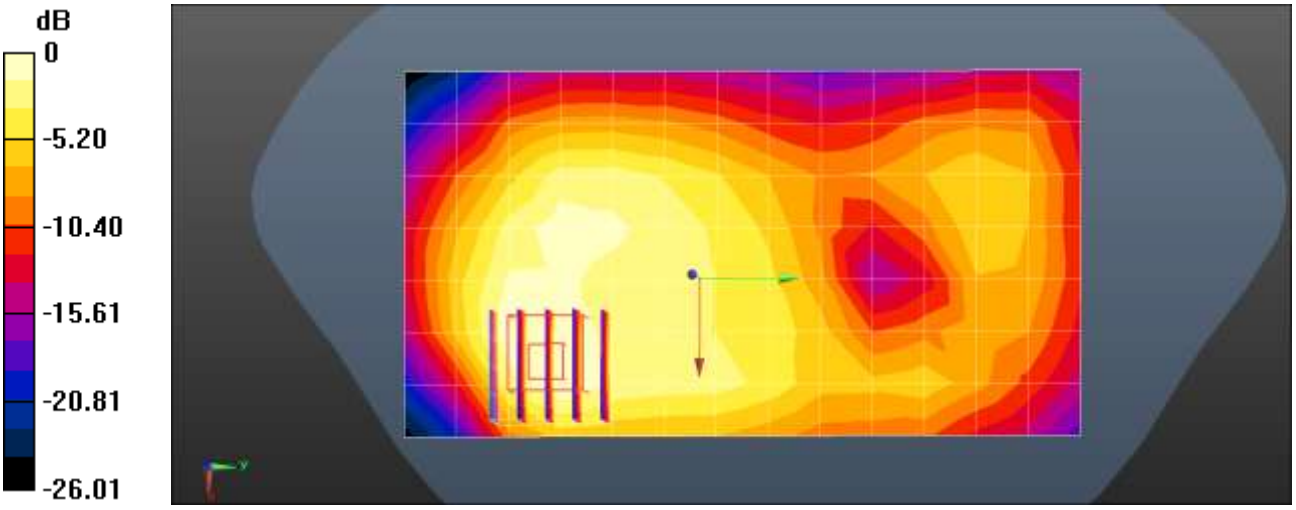
Communication System: UID 0, UMTS IV (0); Frequency: 1732.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1732.4 MHz; σ = 1.317 S/m; ε_r = 39.554; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.15, 8.15, 8.15) @ 1732.4 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

UMTS Band 4 Body Rear 1412ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.360 W/kg

UMTS Band 4 Body Rear 1412ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.558 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.541 W/kg
SAR(1 g) = 0.274 W/kg; SAR(10 g) = 0.146 W/kg
Maximum value of SAR (measured) = 0.431 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.8 ℃
Ambient Temperature:	20.9 ℃
Test Date:	07/04/2022
Plot No.:	33

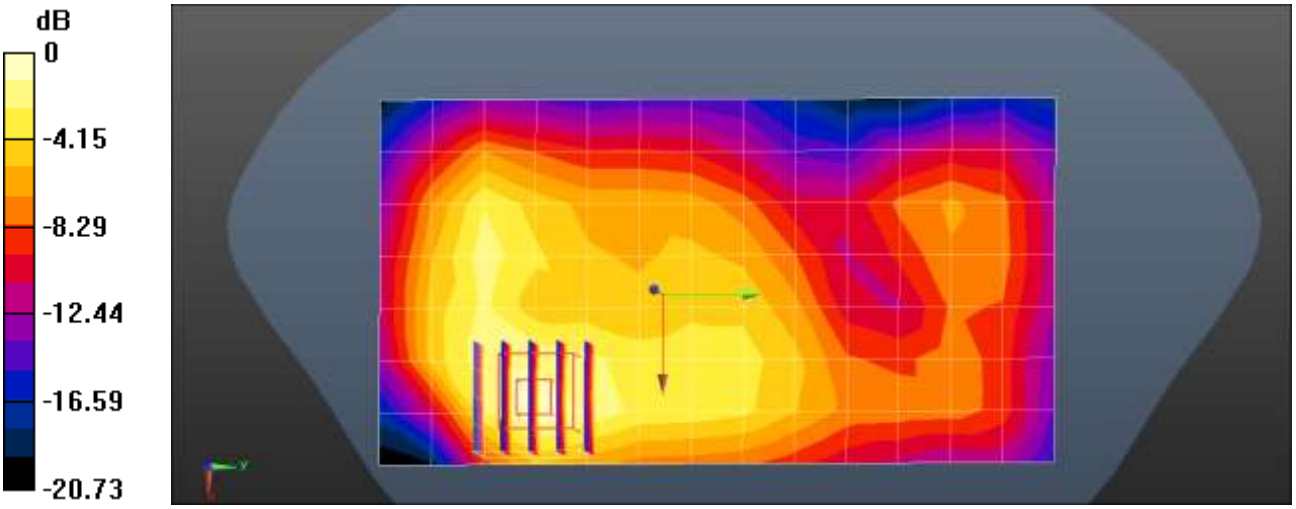
Communication System: UID 0, UMTS1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.381 S/m; ε_r = 38.849; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1880 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

UMTS Band 2 Body Rear 9400ch/Area Scan (8x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.606 W/kg

UMTS Band 2 Body Rear 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.11 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.814 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.219 W/kg
Maximum value of SAR (measured) = 0.649 W/kg



0 dB = 0.606 W/kg = -2.17 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.6 ℃
Ambient Temperature:	18.8 ℃
Test Date:	06/10/2022
Plot No.:	34

Measurement Report for Device, BACK, Band 2, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 18700 (1860.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 10.00	Band 2, E-UTRA/FDD	LTE-FDD, 10169-CAE	1860.0, 18700	5.05	1.36	39.0

Hardware Setup

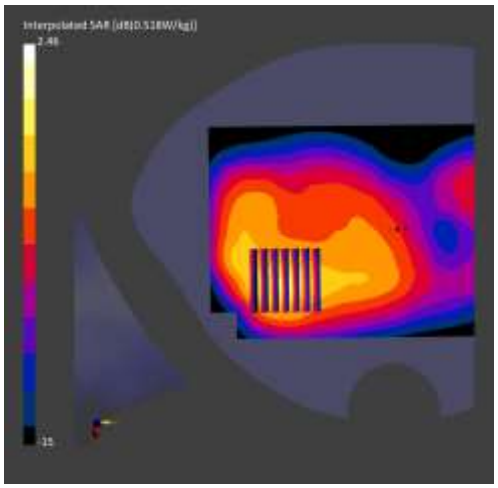
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-20	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.437	0.496
psSAR10g [W/Kg]	0.244	0.267
Power Drift [dB]	-0.06	0.03
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	18.4 ℃
Ambient Temperature:	18.6 ℃
Test Date:	06/07/2022
Plot No.:	35

Measurement Report for Device, EDGE RIGHT, Band 12, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23095 (707.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 10.00	Band 12, E-UTRA/FDD	LTE-FDD, 10175-CAG	707.5, 23095	10.01	0.859	43.4

Hardware Setup

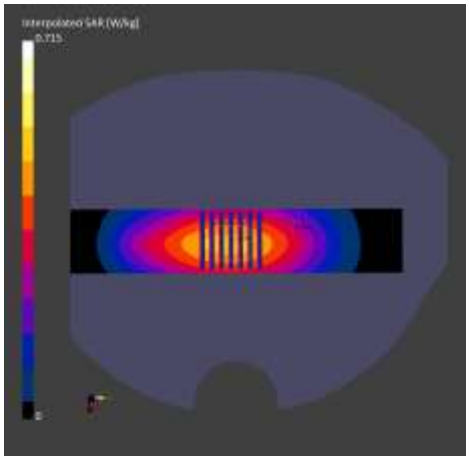
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-09	EX3DV4 - SN3903, 2022-03-29	DAE4 Sn652, 2022-01-24

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.446	0.450
psSAR10g [W/Kg]	0.309	0.309
Power Drift [dB]	-0.11	-0.00
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.4 ℃
Ambient Temperature:	20.6 ℃
Test Date:	06/08/2022
Plot No.:	36

Measurement Report for Device, BACK, Band 13, E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 23230 (782.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 10.00	Band 13, E-UTRA/FDD	LTE-FDD, 10175-CAG	782.0, 23230	6.33	0.879	41.6

Hardware Setup

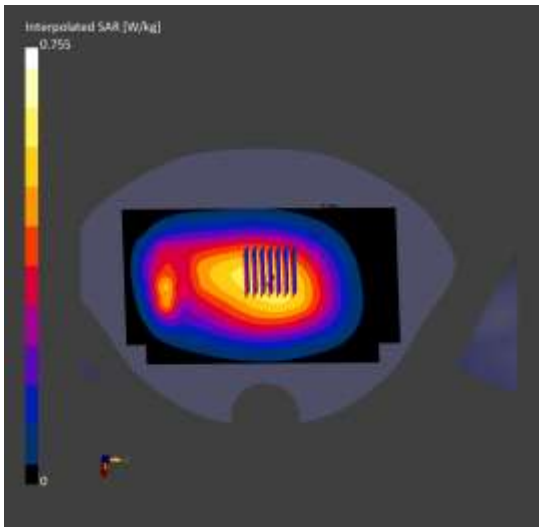
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-09	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.551	0.573
psSAR10g [W/Kg]	0.392	0.429
Power Drift [dB]	-0.18	-0.04
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.5 ℃
Ambient Temperature:	20.7 ℃
Test Date:	06/09/2022
Plot No.:	37

Measurement Report for Device, BACK, Band 26 E-UTRA/FDD, LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 26865 (831.5 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	BACK, 10.00	Band 26 E-UTRA/FDD	LTE-FDD, 10181-CAE	831.5, 26865	5.98	0.910	40.4

Hardware Setup

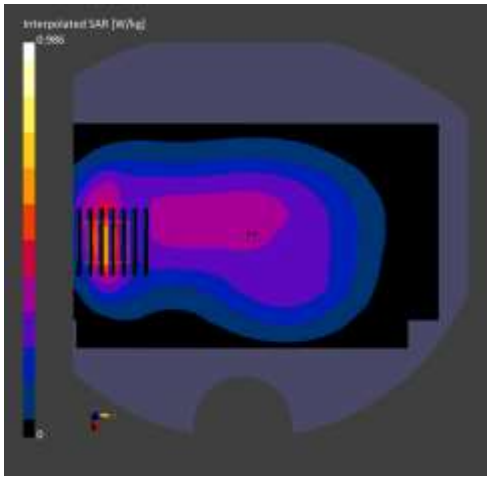
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-09	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.534	0.533
psSAR10g [W/Kg]	0.323	0.288
Power Drift [dB]	-0.16	0.08
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.4 ℃
Ambient Temperature:	21.6 ℃
Test Date:	06/14/2022
Plot No.:	38

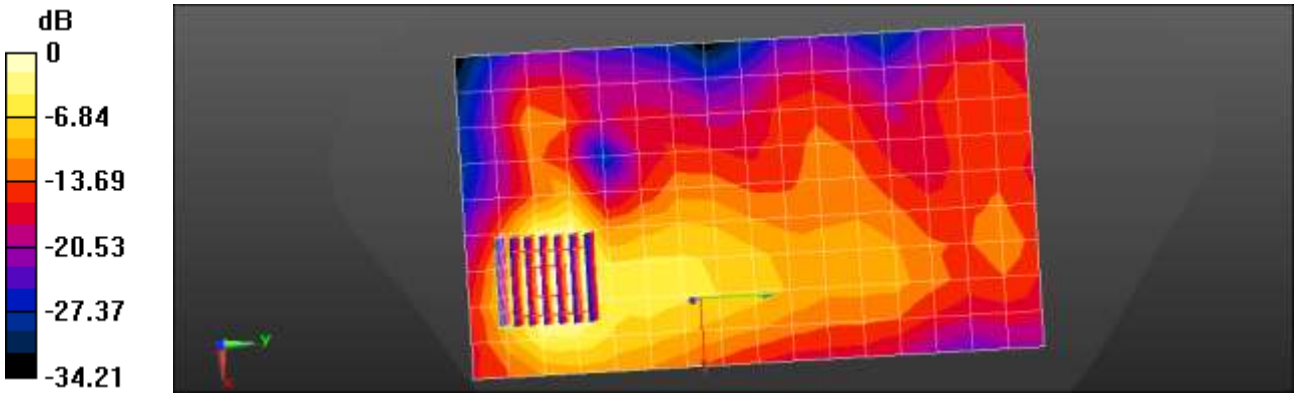
Communication System: UID 0, LTE Band41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58052
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.909 S/m; ε_r = 38.162; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2593 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right;
- 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) = 1.07 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 = 5.205 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.99 W/kg
SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.419 W/kg
Maximum value of SAR (measured) = 1.60 W/kg



0 dB = 1.07 W/kg = 0.30 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.8 ℃
Test Date:	06/14/2022
Plot No.:	39

Measurement Report for Device, EDGE BOTTOM, Band 66, E-UTRA/FDD, LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) RB Position: Mid Antenna Cfg: SISO, Channel 132322 (1745.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE BOTTOM, 10.00	Band 66, E-UTRA/FDD	LTE-FDD, 10297-AAD	1745.0, 132322	5.27	1.33	39.6

Hardware Setup

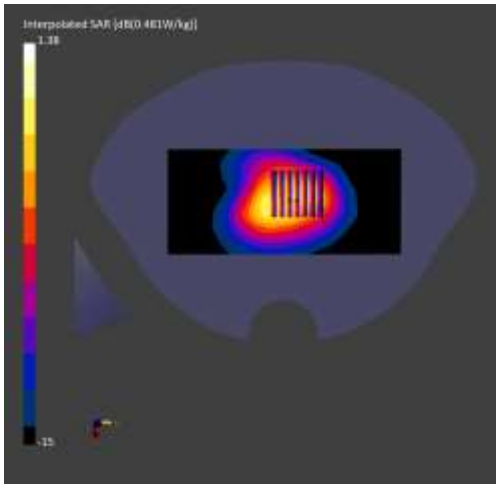
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-22	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.398	0.409
psSAR10g [W/Kg]	0.229	0.239
Power Drift [dB]	-0.04	0.04
Power Scaling	Disabled	Disabled



Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/28/2022
Plot No.:	40

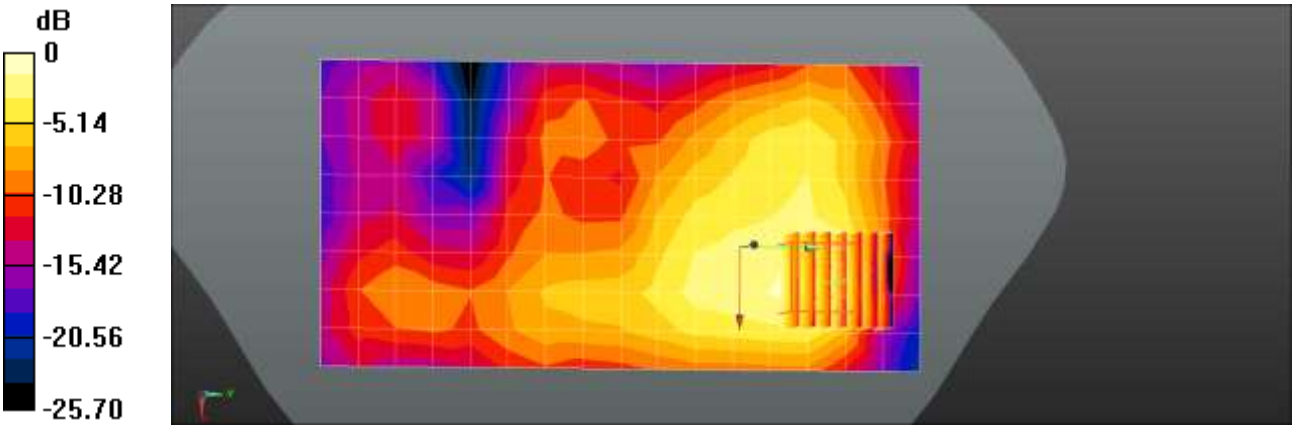
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.847 S/m; ε_r = 39.227; ρ = 1000 kg/m^3
Phantom section: Flat Section

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 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Body Rear 1Mbps 11ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.245 W/kg

802.11b Body Rear 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.218 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.368 W/kg
SAR(1 g) = 0.160 W/kg; SAR(10 g) = 0.075 W/kg
Maximum value of SAR (measured) = 0.284 W/kg



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

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.7 ℃
Ambient Temperature:	20.9 ℃
Test Date:	06/24/2022
Plot No.:	41

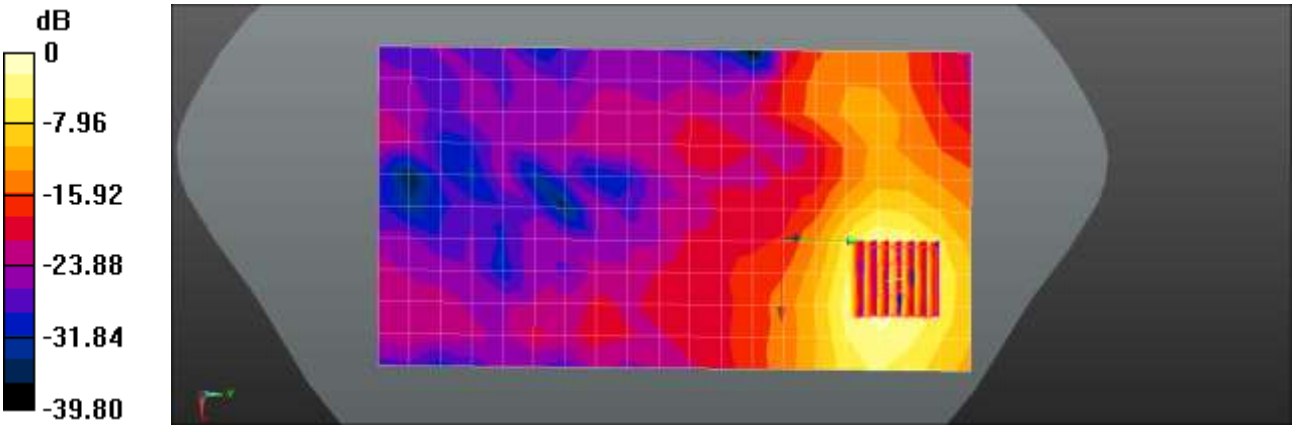
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5745 MHz; σ = 5.234 S/m; ε_r = 34.371; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.7, 4.7, 4.7) @ 5745 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

802.11a 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 = 0.6320 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.03 W/kg
SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.273 W/kg
Maximum value of SAR (measured) = 1.76 W/kg



0 dB = 1.63 W/kg = 2.12 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.7 ℃
Test Date:	06/29/2022
Plot No.:	42

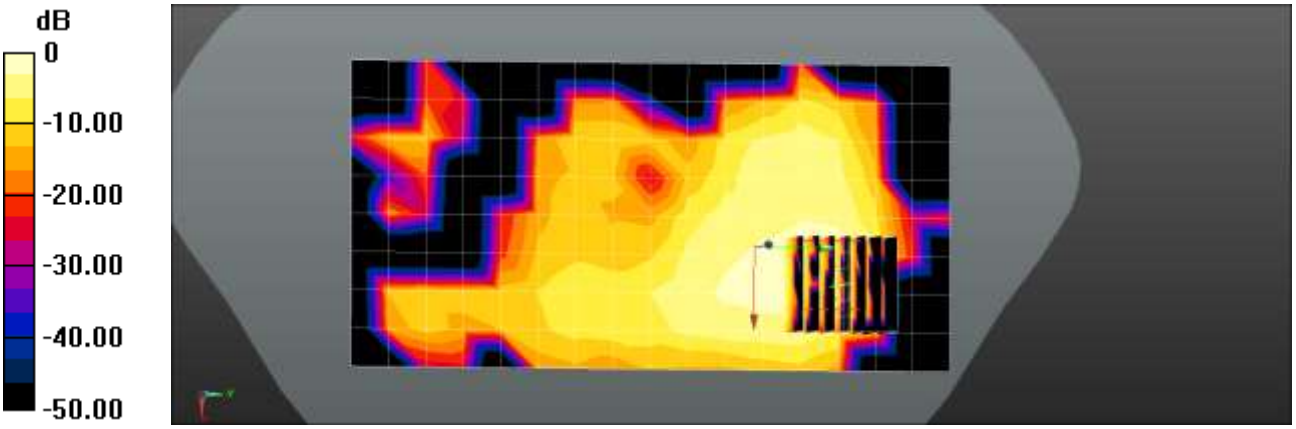
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1.307
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.83 S/m; ε_r = 39.195; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7680; ConvF(7.99, 7.99, 7.99) @ 2441 MHz; Calibrated: 2021-09-10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09;
- Measurement SW: DASY52, Version 52.10 (4);

Bluetooth Body Rear DH5 39ch/Area Scan (9x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.0254 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 = 0.00 dB
Peak SAR (extrapolated) = 0.0300 W/kg
SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00539 W/kg
Maximum value of SAR (measured) = 0.0243 W/kg



0 dB = 0.0254 W/kg = -15.95 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/28/2022
Plot No.:	43

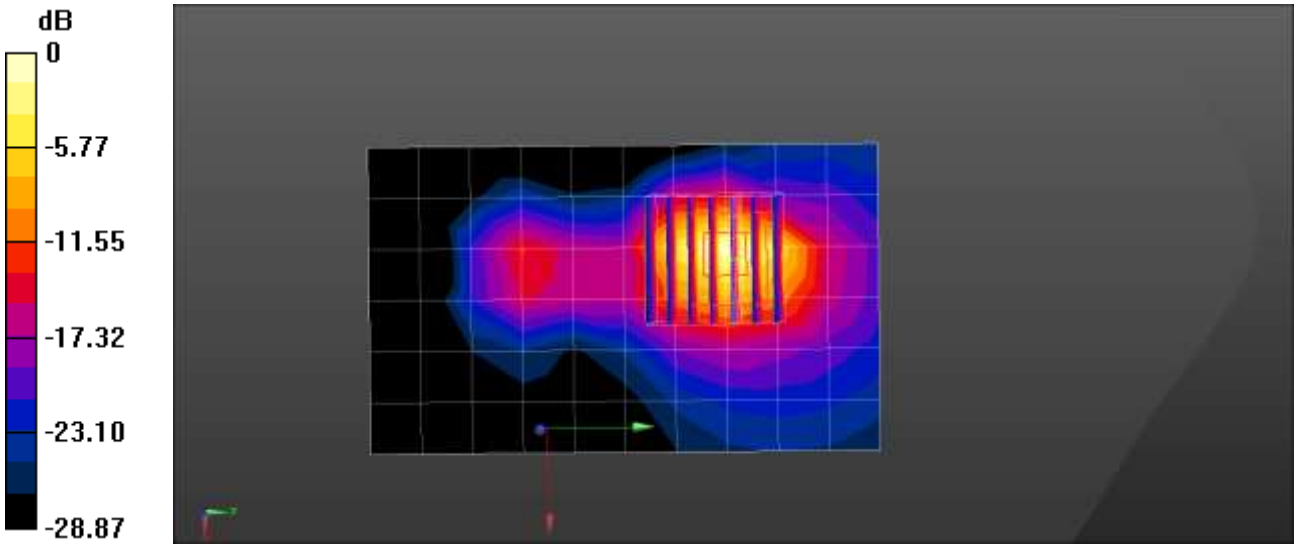
Communication System: UID 0, LTE Band41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58052
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.904 S/m; ε_r = 37.851; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2593 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right;
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 41 Body Bottom QPSK 20MHz 1RB 0offset 40620ch Grip 0mm/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 9.07 W/kg

LTE Band 41 Body Bottom QPSK 20MHz 1RB 0offset 40620ch Grip 0mm/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.21 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 14.1 W/kg
SAR(1 g) = 4.58 W/kg; SAR(10 g) = 1.57 W/kg
Maximum value of SAR (measured) = 10.1 W/kg



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

Test Laboratory:	HCT CO., LTD
EUT Type:	Mobile Phone
Liquid Temperature:	20.5 ℃
Ambient Temperature:	20.6 ℃
Test Date:	06/27/2022
Plot No.:	44

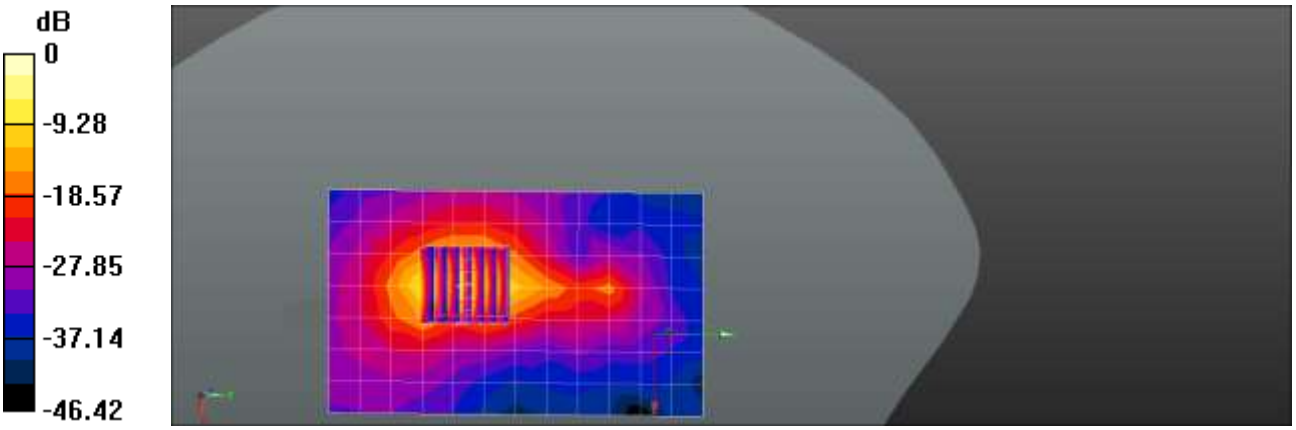
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5720 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5720 MHz; σ = 5.224 S/m; ε_r = 34.373; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.7, 4.7, 4.7) @ 5720 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front;
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Body Top 6Mbps 144ch/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 25.5 W/kg

802.11a Body Top 6Mbps 144ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 16.32 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 53.3 W/kg
SAR(1 g) = 7.46 W/kg; SAR(10 g) = 1.53 W/kg
Maximum value of SAR (measured) = 26.9 W/kg



0 dB = 25.5 W/kg = 14.07 dBW/kg

Appendix C. – Dipole Verification Plots

■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	18.4 ℃
Test Date:	06/07/2022

Measurement Report for Device, CW, Channel 0 (750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	750.0, 0	6.33	0.879	42.9

Hardware Setup

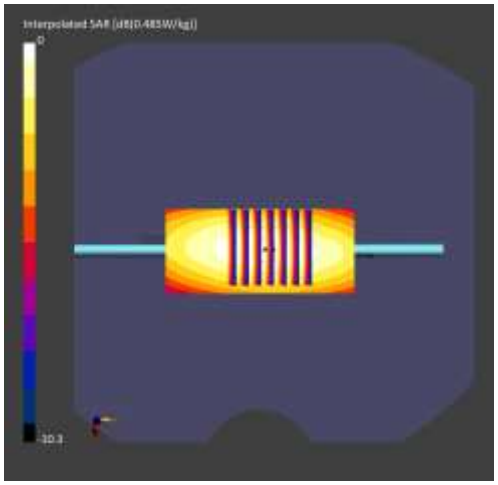
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-24	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.422	0.425
psSAR10g [W/Kg]	0.280	0.284
Power Drift [dB]	-0.02	-0.01
Power Scaling	Disabled	Disabled



■ Verification Data (750 ㎒ Head)

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.4 ℃
Test Date:	06/08/2022

Measurement Report for Device, CW, Channel 0 (750.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	750.0, 0	6.33	0.877	42.1

Hardware Setup

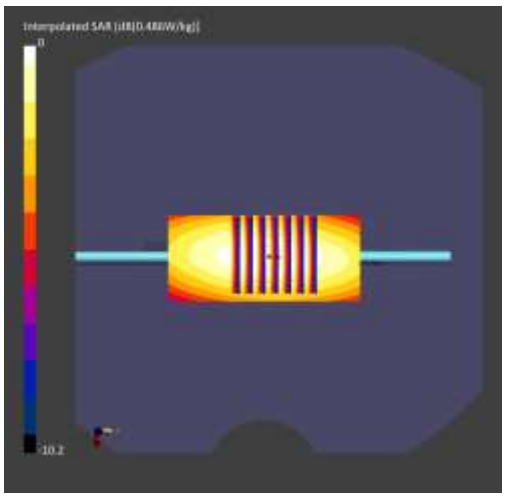
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-24	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.422	0.423
psSAR10g [W/Kg]	0.280	0.283
Power Drift [dB]	0.00	0.08
Power Scaling	Disabled	Disabled



■ **Verification Data (835 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/13/2022

DUT: Dipole 835 MHz D835V2; Type: D835V2;

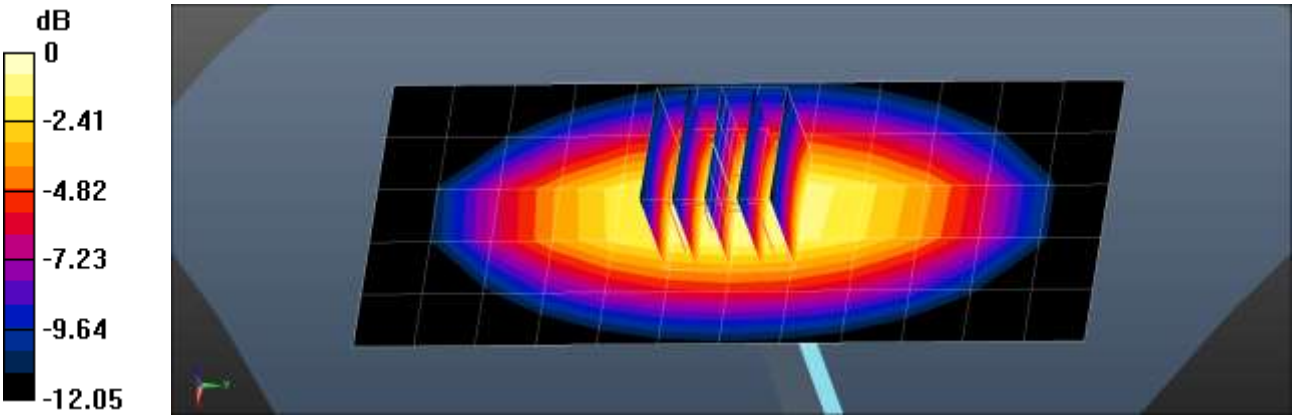
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.912 S/m; ε_r = 40.451; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 835 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.570 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.49 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.777 W/kg
SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.303 W/kg
Maximum value of SAR (measured) = 0.677 W/kg



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

■ **Verification Data (835 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.7 ℃
Test Date:	06/15/2022

DUT: Dipole 835 MHz D835V2; Type: D835V2;

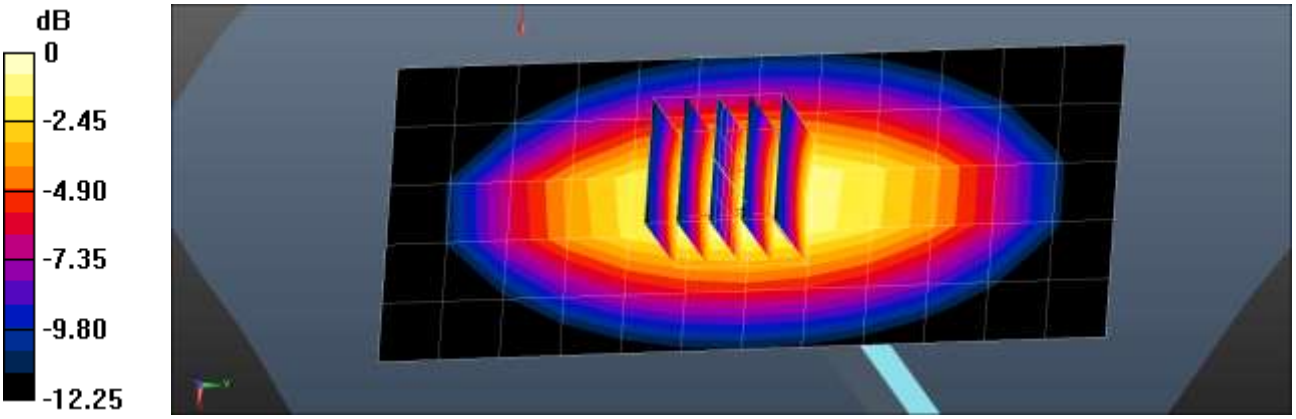
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.912 S/m; ε_r = 40.467; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(9.11, 9.11, 9.11) @ 835 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.571 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.46 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.782 W/kg
SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.304 W/kg
Maximum value of SAR (measured) = 0.683 W/kg



0 dB = 0.683 W/kg = -1.66 dBW/kg

■ **Verification Data (835 ㎒ Head)**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	06/09/2022

Measurement Report for Device, CW, Channel 0 (835.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	835.0, 0	5.98	0.912	40.4

Hardware Setup

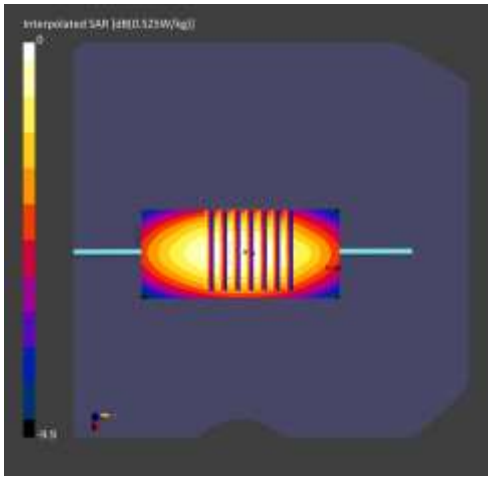
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-23	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.456	0.468
psSAR10g [W/Kg]	0.305	0.324
Power Drift [dB]	-0.00	-0.02
Power Scaling	Disabled	Disabled



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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	07/05/2022

DUT: D1800V2; Type: D1800V2;

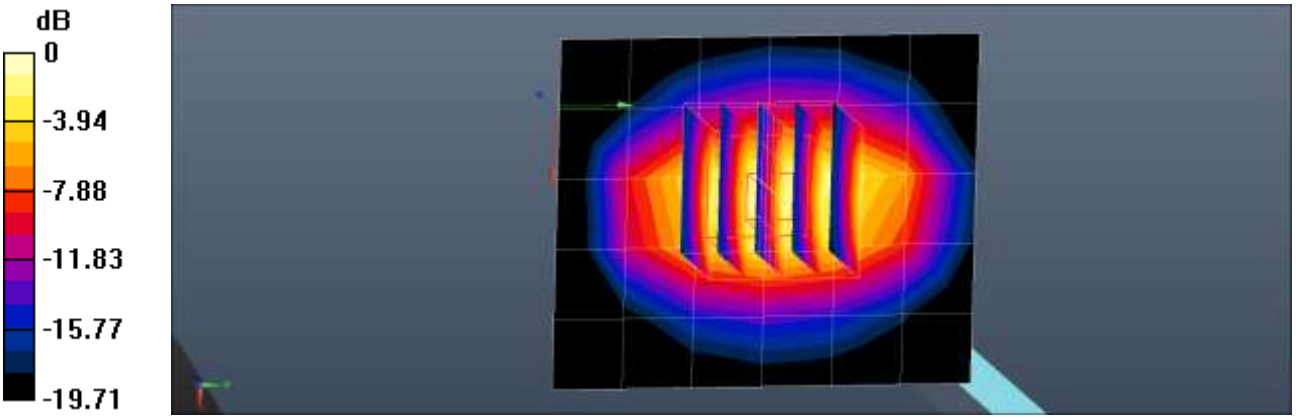
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.381 S/m; ε_r = 39.225; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(8.15, 8.15, 8.15) @ 1800 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1800MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.50 W/kg

Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.65 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 4.11 W/kg
SAR(1 g) = 1.99 W/kg; SAR(10 g) = 0.993 W/kg
Maximum value of SAR (measured) = 3.29 W/kg



0 dB = 3.29 W/kg = 5.17 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.6 ℃
Test Date:	06/14/2022

Measurement Report for Device, CW, Channel 0 (1800.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1800.0, 0	5.27	1.39	39.4

Hardware Setup

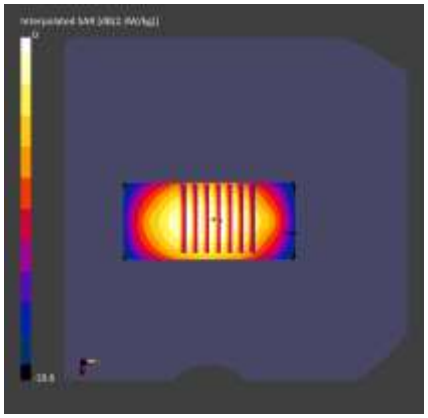
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-23	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.86	1.85
psSAR10g [W/Kg]	1.00	1.04
Power Drift [dB]	0.01	-0.00
Power Scaling	Disabled	Disabled



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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	06/14/2022

DUT: D1900V2 - SN5d032; Type: D1900V2;

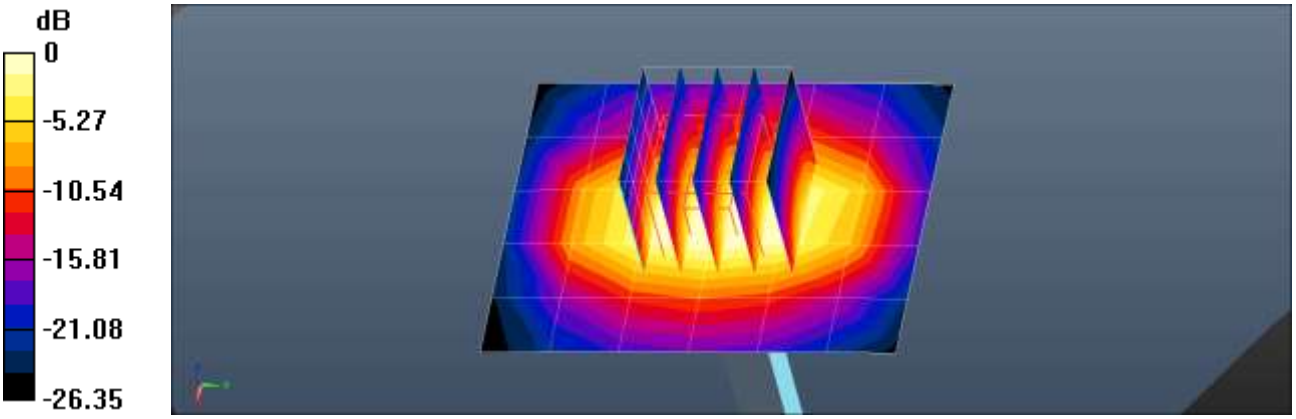
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.405 S/m; ε_r = 38.763; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1900 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.00 W/kg

Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.07 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.73 W/kg
SAR(1 g) = 1.86 W/kg; SAR(10 g) = 0.928 W/kg
Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 2.00 W/kg = 3.01 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	07/04/2022

DUT: D1900V2; Type: D1900V2;

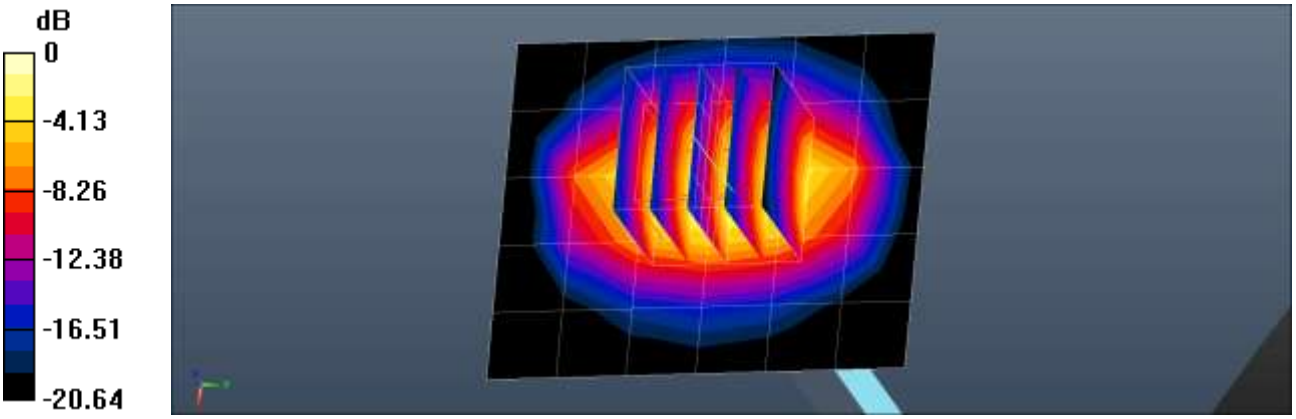
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.397 S/m; ε_r = 38.782; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.83, 7.83, 7.83) @ 1900 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/1900MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.06 W/kg

Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.12 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 4.32 W/kg
SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 3.41 W/kg



0 dB = 3.41 W/kg = 5.33 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	18.6 ℃
Test Date:	06/10/2022

Measurement Report for Device, CW, Channel 0 (1900.0 MHz)

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	,		, 0--	1900.0, 0	5.05	1.40	38.8

Hardware Setup

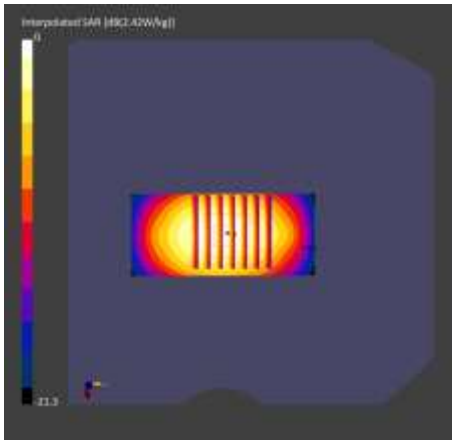
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) - 2047	HBBL-600-10000, 2022-Jun-23	ES3DV3 - SN3076, 2021-07-28	DAE4 Sn648, 2022-04-29

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	10.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	3.0
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.5

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	1.94	1.94
psSAR10g [W/Kg]	1.04	1.09
Power Drift [dB]	-0.00	-0.00
Power Scaling	Disabled	Disabled



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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	06/28/2022

DUT: Dipole 2450 MHz; Type: D2450V2;

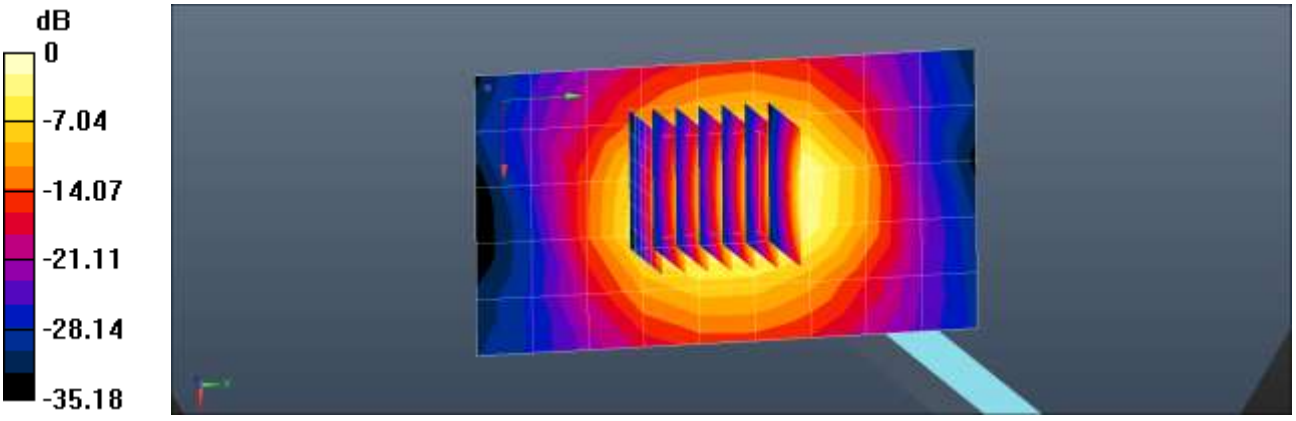
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.837 S/m; ε_r = 39.204; ρ = 1000 kg/m^3
Phantom section: Flat Section

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 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2450MHz Head Verification/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.17 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.24 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 5.88 W/kg
SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.21 W/kg
Maximum value of SAR (measured) = 4.66 W/kg



0 dB = 3.17 W/kg = 5.00 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	06/29/2022

DUT: Dipole 2450 MHz; Type: D2450V2;

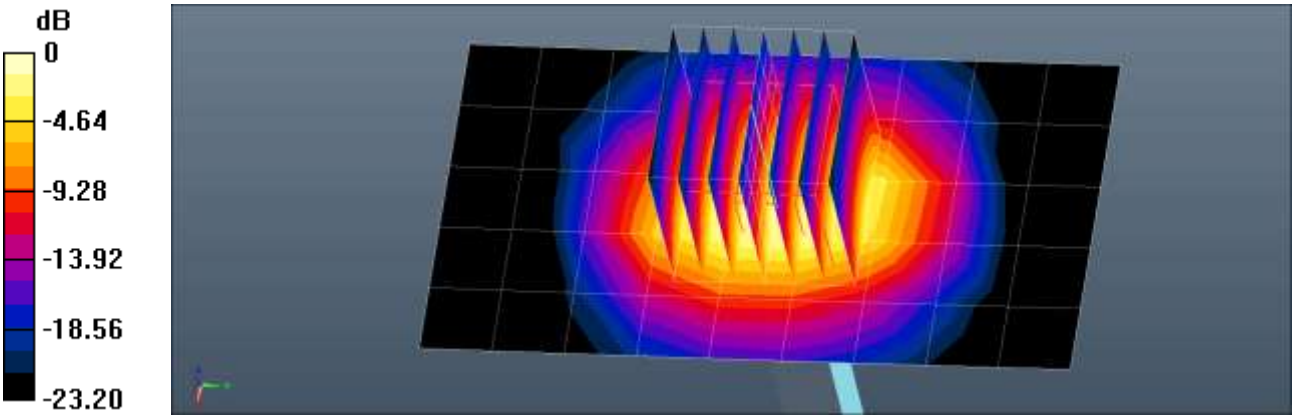
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.837 S/m; ε_r = 39.211; ρ = 1000 kg/m^3
Phantom section: Flat Section

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 Sn1720; Calibrated: 2022-05-09
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2450MHz Head Verification/Area Scan (6x10x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.15 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.02 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 5.83 W/kg
SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 4.62 W/kg



0 dB = 4.62 W/kg = 6.65 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.1 ℃
Test Date:	06/13/2022

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2;

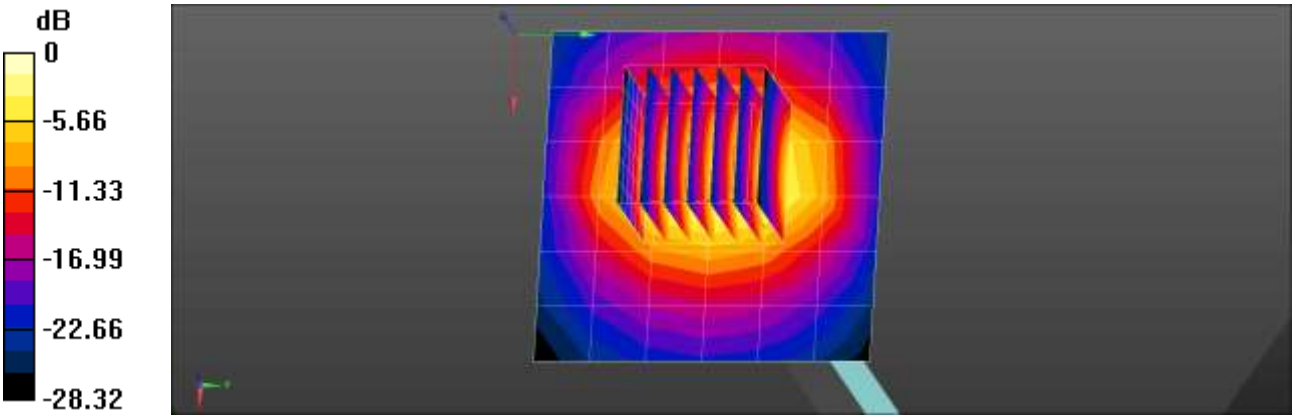
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.918 S/m; ε_r = 37.999; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2600 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.27 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.39 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 6.60 W/kg
SAR(1 g) = 2.97 W/kg; SAR(10 g) = 1.31 W/kg
Maximum value of SAR (measured) = 5.23 W/kg



0 dB = 4.27 W/kg = 6.30 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4 ℃
Test Date:	06/14/2022

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2;

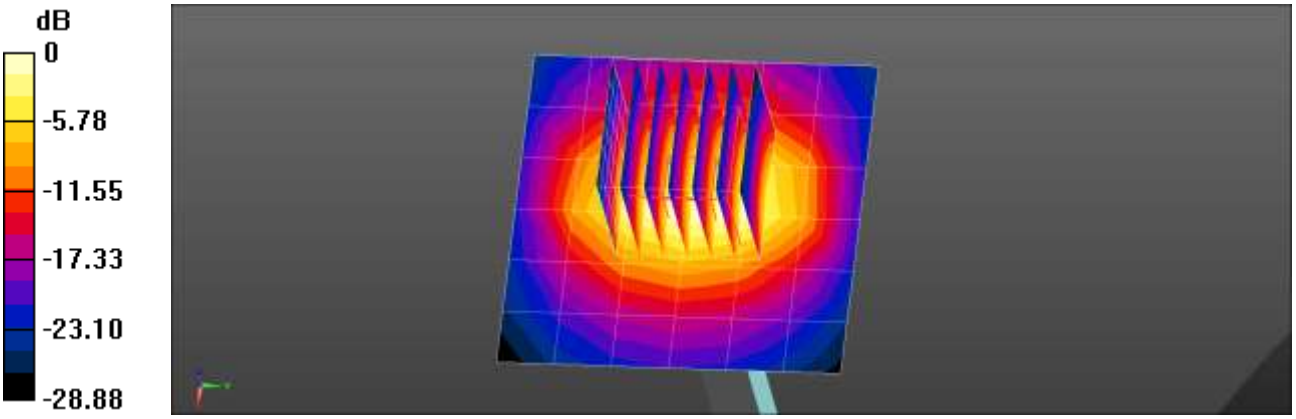
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.918 S/m; ε_r = 38.047; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2600 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.28 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.41 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 6.63 W/kg
SAR(1 g) = 2.98 W/kg; SAR(10 g) = 1.32 W/kg
Maximum value of SAR (measured) = 5.26 W/kg



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

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.1 ℃
Test Date:	06/29/2022

DUT: Dipole D5GHzV2; Type: D5GHzV2;

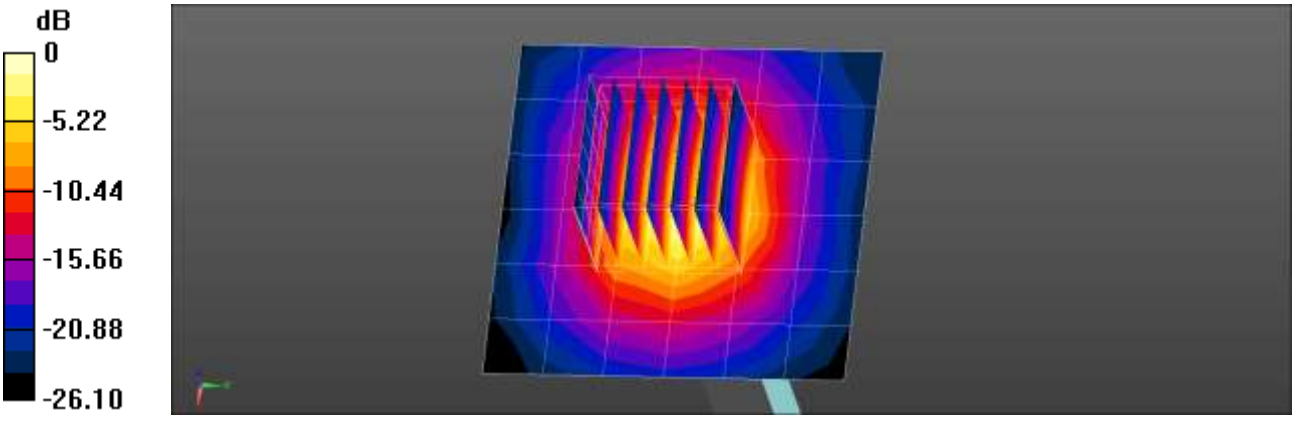
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.69 S/m; ε_r = 35.24; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7681; ConvF(5.94, 5.94, 5.94) @ 5250 MHz; Calibrated: 2021-12-14
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn446; Calibrated: 2021-09-30
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.60 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.65 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 15.6 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 9.71 W/kg



0 dB = 9.60 W/kg = 9.82 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	06/27/2022

DUT: D5GHzV2; Type: D5GHzV2;

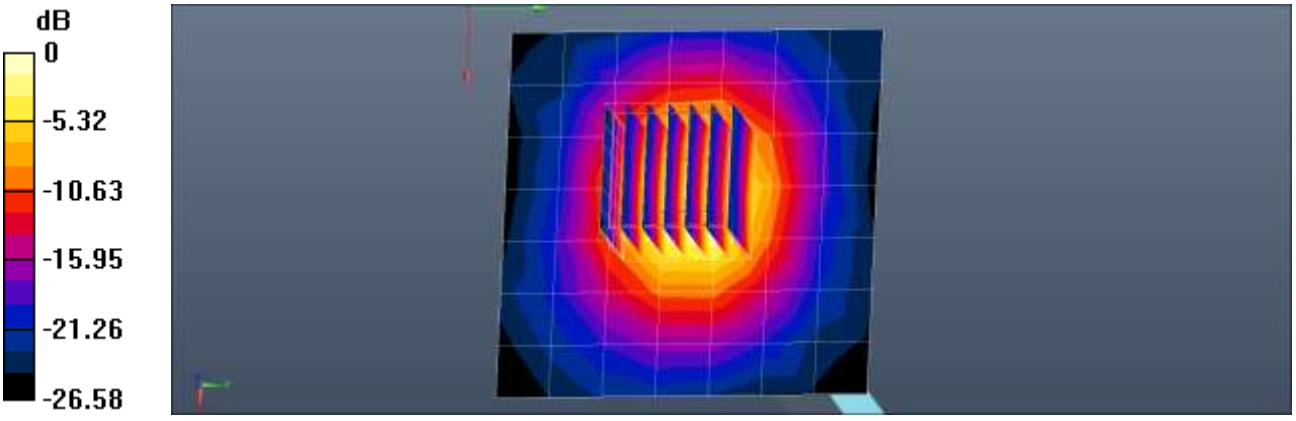
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.961 S/m; ε_r = 34.557; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.56, 4.56, 4.56) @ 5600 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.84 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.55 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 19.6 W/kg
SAR(1 g) = 4.28 W/kg; SAR(10 g) = 1.23 W/kg
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 7.84 W/kg = 8.94 dBW/kg

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

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.7 ℃
Test Date:	06/24/2022

DUT: D5GHzV2; Type: D5GHzV2;

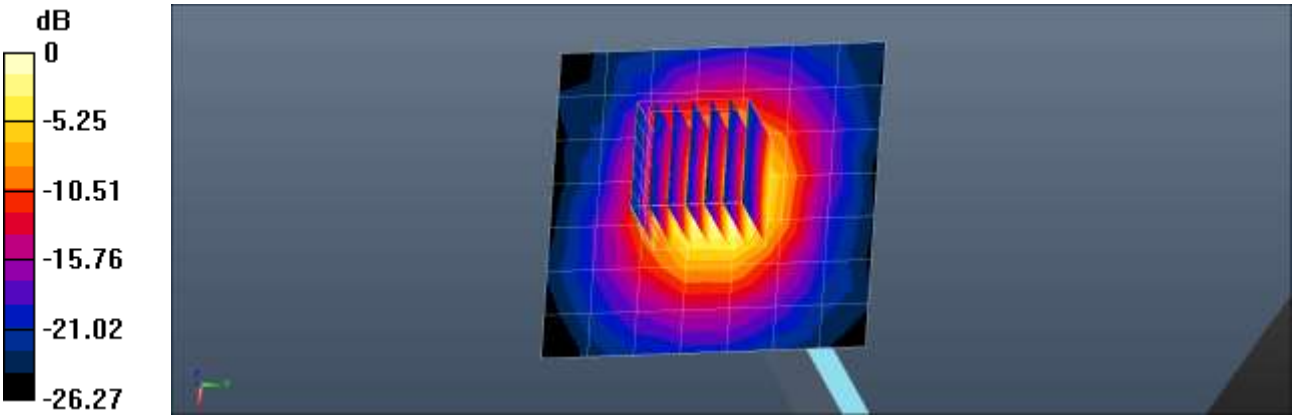
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.236 S/m; ε_r = 34.365; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3797; ConvF(4.7, 4.7, 4.7) @ 5750 MHz; Calibrated: 2022-01-28
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2022-02-24
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/5750MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.65 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.88 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 4.04 W/kg; SAR(10 g) = 1.16 W/kg
Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 6.65 W/kg = 8.23 dBW/kg

– Extremity

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

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.6 ℃
Test Date: 06/28/2022

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2;

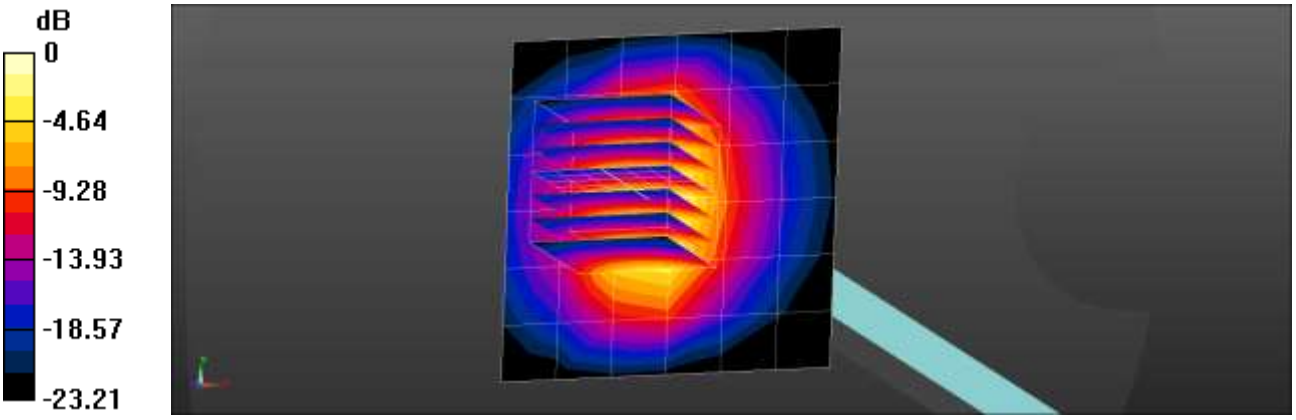
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.91 S/m; ε_r = 37.871; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.51, 7.51, 7.51) @ 2600 MHz; Calibrated: 2021-09-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2022-03-25
- Phantom: Twin-SAM V4.0 Right
- Measurement SW: DASY52, Version 52.10 (4)

Dipole/2600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.27 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.59 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 6.54 W/kg
SAR(1 g) = 2.95 W/kg; SAR(10 g) = 1.3 W/kg
Maximum value of SAR (measured) = 5.18 W/kg



0 dB = 5.18 W/kg = 7.14 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
5	3076	EX3DV4	Head	750	1014	2022-06-24	41.8	0.89	PASS	PASS	PASS	N/A	N/A	N/A
2	3797	EX3DV4	Head	835	4d165	2022-02-25	41.5	0.89	PASS	PASS	PASS	GMSK	PASS	N/A
5	3076	EX3DV4	Head	835	4d165	2021-08-09	41.5	0.89	PASS	PASS	PASS	N/A	N/A	N/A
2	3797	EX3DV4	Head	1750	2d015	2022-02-25	40.1	1.41	PASS	PASS	PASS	GMSK	PASS	N/A
5	3076	EX3DV4	Head	1750	2d015	2021-08-09	40.1	1.41	PASS	PASS	PASS	N/A	N/A	N/A
2	3797	EX3DV4	Head	1900	5d032	2022-02-24	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
5	3076	EX3DV4	Head	1900	5d032	2021-08-09	40.1	1.42	PASS	PASS	PASS	N/A	N/A	N/A
12	7680	EX3DV4	Head	2450	743	2022-06-17	39.2	1.83	PASS	PASS	PASS	OFDM	N/A	PASS
4	3968	EX3DV4	Head	2600	1106	2021-10-15	39.1	1.94	PASS	PASS	PASS	TDD	PASS	N/A
17	7681	EX3DV4	Head	5250	1253	2022-12-20	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5600	1253	2022-06-24	35.3	5.05	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5750	1253	2022-06-24	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
4	3968	EX3DV4	Head	2600	1106	2021-10-15	39.1	1.94	PASS	PASS	PASS	TDD	PASS	N/A
17	7681	EX3DV4	Head	5250	1253	2022-12-20	35.7	4.70	PASS	PASS	PASS	OFDM	N/A	PASS
2	3797	EX3DV4	Head	5600	1253	2022-06-24	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.