

**Appendix B. SAR Measurement Plots**

<b>Table of contents</b>
<b>GSM850 Head (Second Antenna)</b>
<b>GSM850 Body (Second Antenna)</b>
<b>GSM1900 Head (Second Antenna)</b>
<b>GSM1900 Body (Second Antenna)</b>
<b>UMTS Band II Head (Second Antenna)</b>
<b>UMTS Band II Body (Second Antenna)</b>
<b>UMTS Band IV Head (Second Antenna)</b>
<b>UMTS Band IV Body (Second Antenna)</b>
<b>UMTS Band V Head (Second Antenna)</b>
<b>UMTS Band V Body (Second Antenna)</b>
<b>LTE Band II Head (Second Antenna)</b>
<b>LTE Band II Body (Second Antenna)</b>
<b>LTE Band IV Head (Second Antenna)</b>
<b>LTE Band IV Body (Second Antenna)</b>
<b>LTE Band V Head (Second Antenna)</b>
<b>LTE Band V Body (Second Antenna)</b>
<b>LTE Band VII Head (Second Antenna)</b>
<b>LTE Band VII Body (Second Antenna)</b>
<b>LTE Band XII Head (Second Antenna)</b>
<b>LTE Band XII Body (Second Antenna)</b>
<b>LTE Band XVII Head (Second Antenna)</b>
<b>LTE Band XVII Body (Second Antenna)</b>
<b>LTE Band XXVI Head (Second Antenna)</b>
<b>LTE Band XXVI Body (Second Antenna)</b>
<b>LTE Band XXXVIII Head (Second Antenna)</b>
<b>LTE Band XXXVIII Body (Second Antenna)</b>
<b>LTE Band XLI Head (Second Antenna)</b>
<b>LTE Band XLI Body (Second Antenna)</b>
<b>GSM850 Head (Main Antenna)</b>
<b>GSM850 Body (Main Antenna)</b>
<b>GSM1900 Head (Main Antenna)</b>
<b>GSM1900 Body (Main Antenna)</b>
<b>UMTS Band II Head (Main Antenna)</b>

<b>UMTS Band II Body (Main Antenna)</b>
<b>UMTS Band IV Head (Main Antenna)</b>
<b>UMTS Band IV Body (Main Antenna)</b>
<b>UMTS Band V Head (Main Antenna)</b>
<b>UMTS Band V Body (Main Antenna)</b>
<b>LTE Band II Head (Main Antenna)</b>
<b>LTE Band II Body (Main Antenna)</b>
<b>LTE Band IV Head (Main Antenna)</b>
<b>LTE Band IV Body (Main Antenna)</b>
<b>LTE Band V Head (Main Antenna)</b>
<b>LTE Band V Body (Main Antenna)</b>
<b>LTE Band VII Head (Main Antenna)</b>
<b>LTE Band VII Body (Main Antenna)</b>
<b>LTE Band XII Head (Main Antenna)</b>
<b>LTE Band XII Body (Main Antenna)</b>
<b>LTE Band XVII Head (Main Antenna)</b>
<b>LTE Band XVII Body (Main Antenna)</b>
<b>LTE Band XXVI Head (Main Antenna)</b>
<b>LTE Band XXVI Body (Main Antenna)</b>
<b>LTE Band XXXVIII Head (Main Antenna)</b>
<b>LTE Band XXXVIII Body (Main Antenna)</b>
<b>LTE Band XLI Head (Main Antenna)</b>
<b>LTE Band XLI Body (Main Antenna)</b>
<b>WiFi 2.4G Head</b>
<b>WiFi 2.4G Body</b>
<b>WiFi 5G Head</b>
<b>WiFi 5G Body</b>

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 190CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.902$  S/m;  $\epsilon_r = 41.752$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.61 W/kg

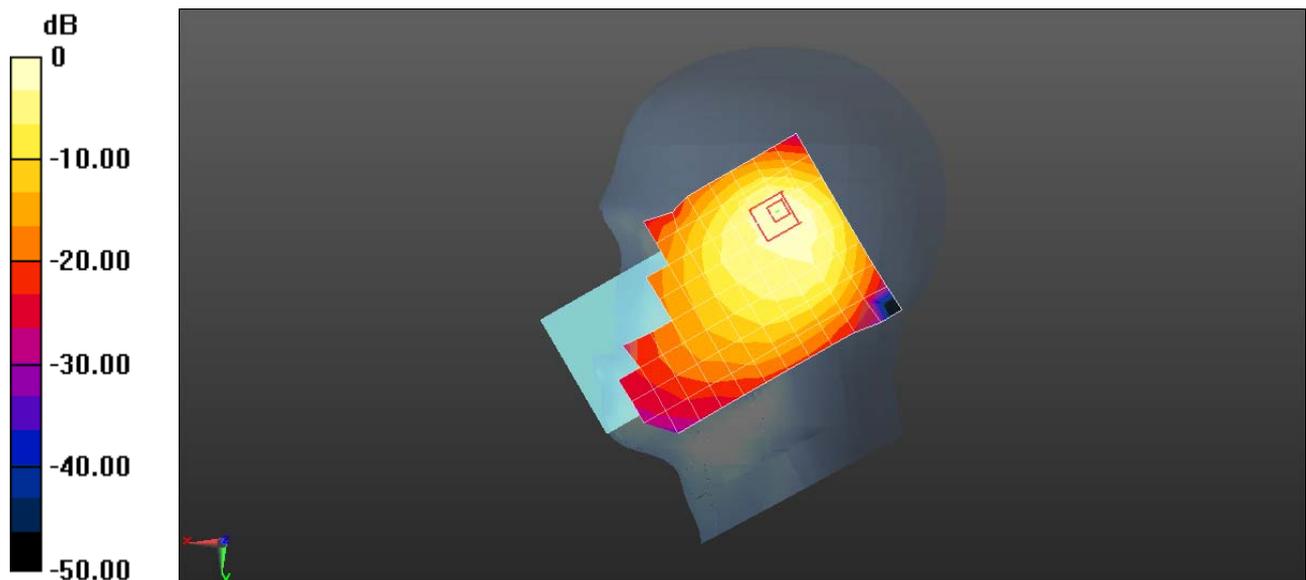
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.79 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.23 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.547 W/kg**

Maximum value of SAR (measured) = 1.75 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 190CH Back side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.255 W/kg

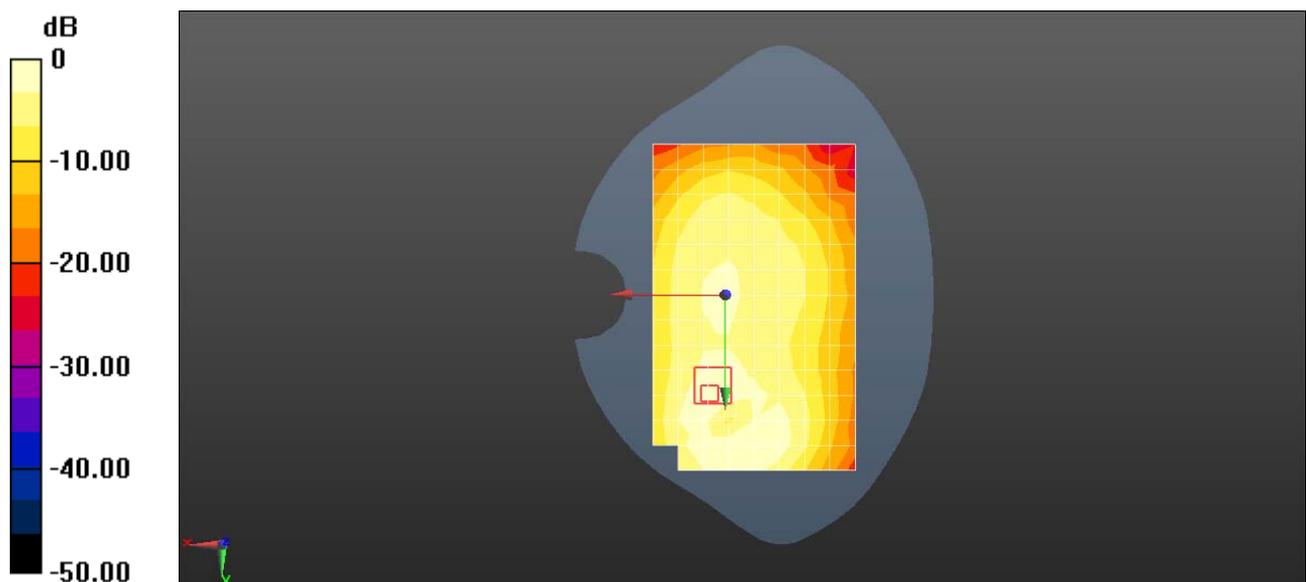
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.896 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.311 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.112 W/kg**

Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 GPRS 3TS 251CH Back side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-3TS (0); Frequency: 848.8 MHz; Duty Cycle: 1:2.77013

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.958$  S/m;  $\epsilon_r = 54.202$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.995 W/kg

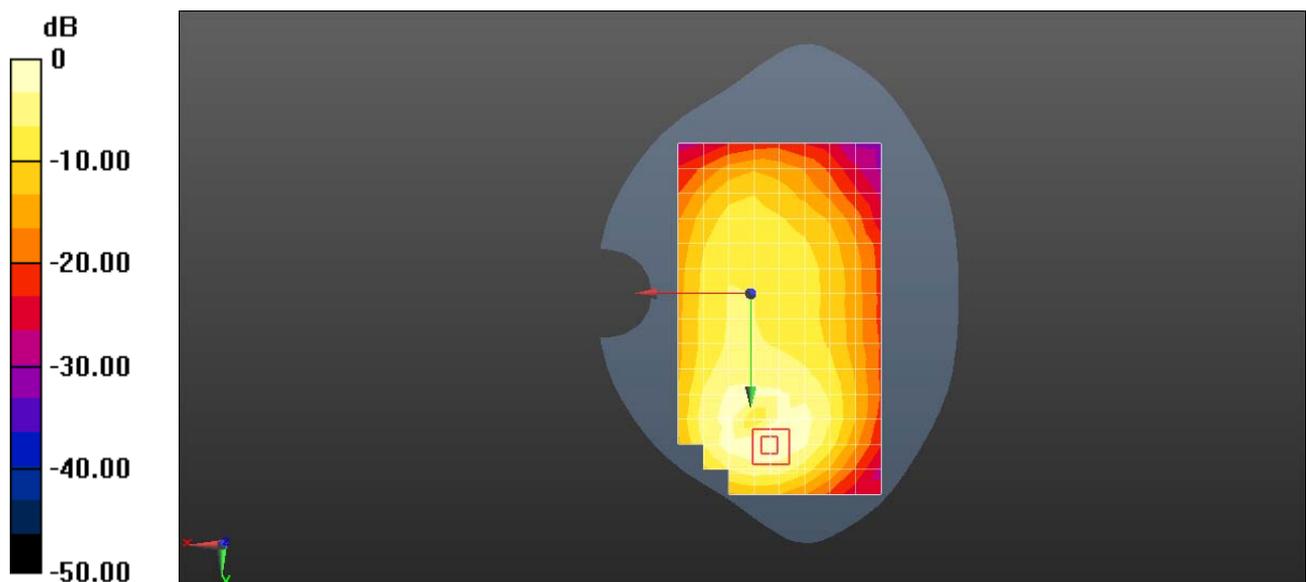
**Configuration/Body/Zoom Scan (6x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.49 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 1.27 W/kg

**SAR(1 g) = 0.710 W/kg; SAR(10 g) = 0.399 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 GSM1900 512CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.371$  S/m;  $\epsilon_r = 39.449$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.23 W/kg

**Configuration/Head/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

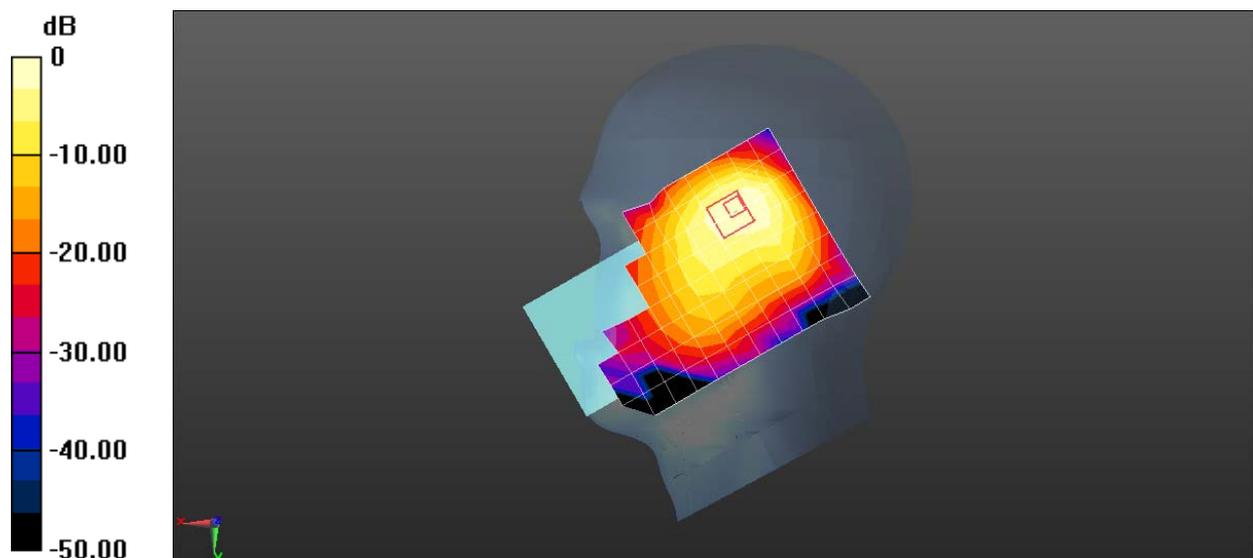
Reference Value = 15.25 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.72 W/kg

**SAR(1 g) = 0.909 W/kg; SAR(10 g) = 0.504 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.26 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 GSM1900 661CH Front side 15mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0939 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.370 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.113 W/kg

**SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.045 W/kg**

Maximum value of SAR (measured) = 0.0963 W/kg

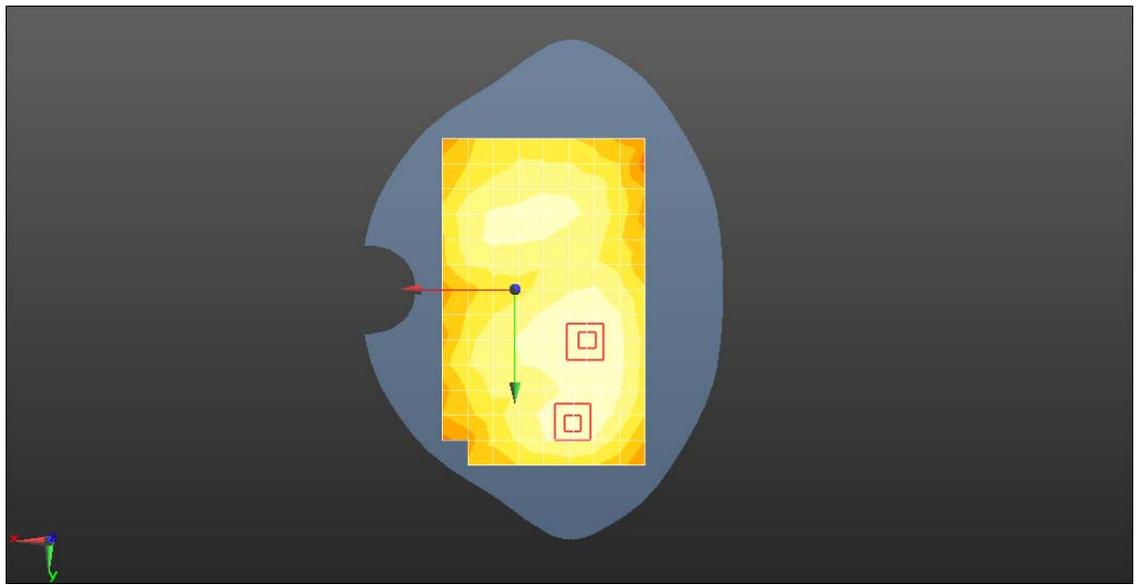
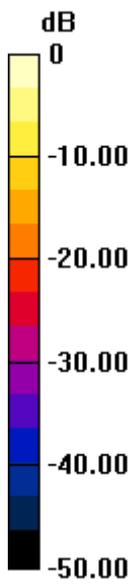
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.370 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.0960 W/kg

**SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.029 W/kg**

Maximum value of SAR (measured) = 0.0787 W/kg



0 dB = 0.0939 W/kg = -10.27 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM1900 GPRS 2TS 661CH Top side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.259 W/kg

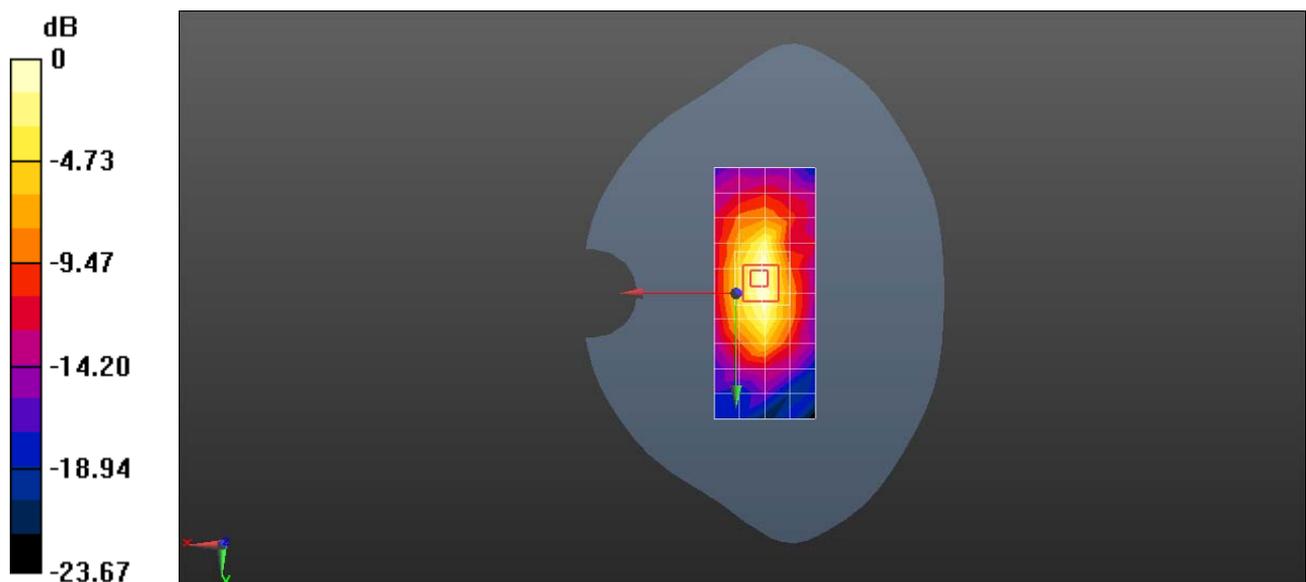
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.12 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.354 W/kg

**SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.100 W/kg**

Maximum value of SAR (measured) = 0.291 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band II 9538CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.402$  S/m;  $\epsilon_r = 39.377$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.02 W/kg

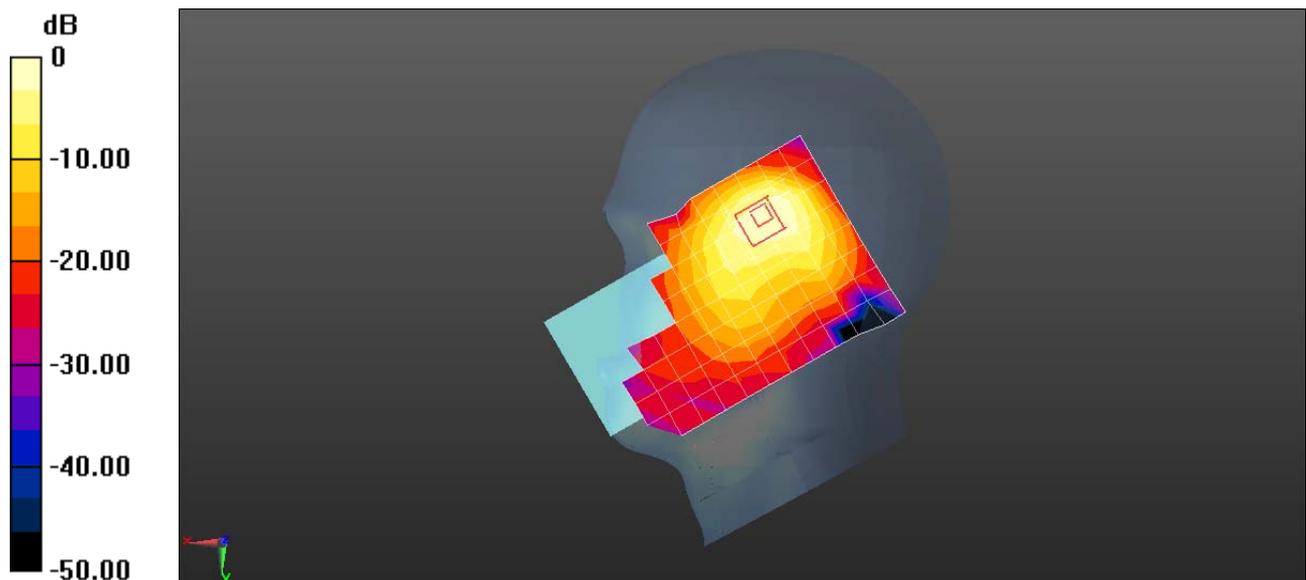
**Configuration/Head/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.43 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.35 W/kg

**SAR(1 g) = 0.680 W/kg; SAR(10 g) = 0.367 W/kg**

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.02 W/kg = 0.09 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band II 9400CH Back side 15mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.0774 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.479 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0890 W/kg

**SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.0764 W/kg

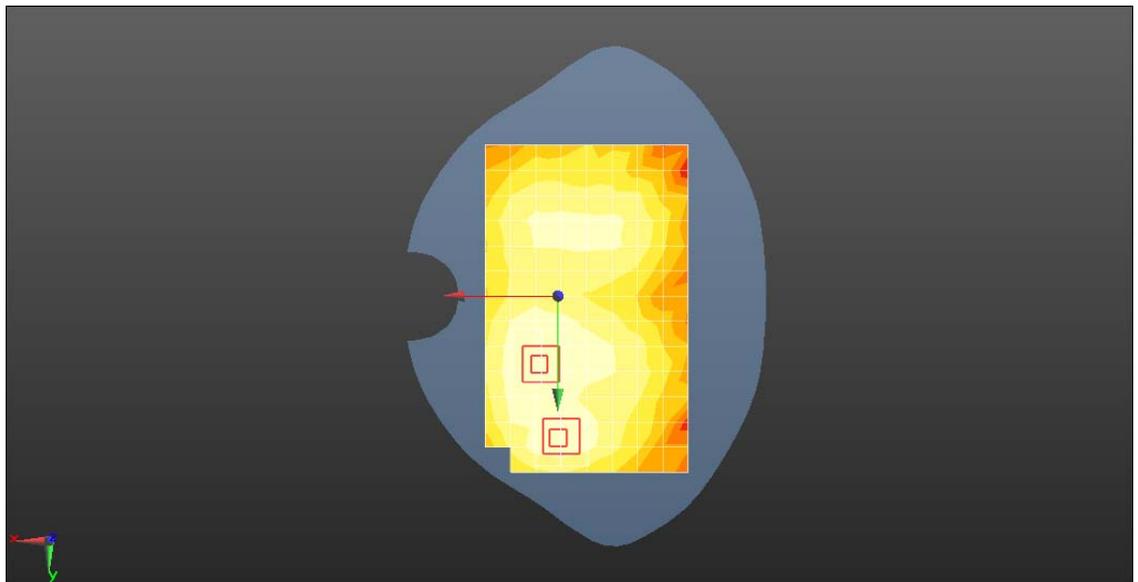
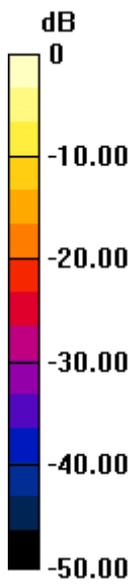
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 2.479 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0880 W/kg

**SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.027 W/kg**

Maximum value of SAR (measured) = 0.0725 W/kg



0 dB = 0.0774 W/kg = -11.11 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 UMTS Band II 9400CH Top side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.191 W/kg

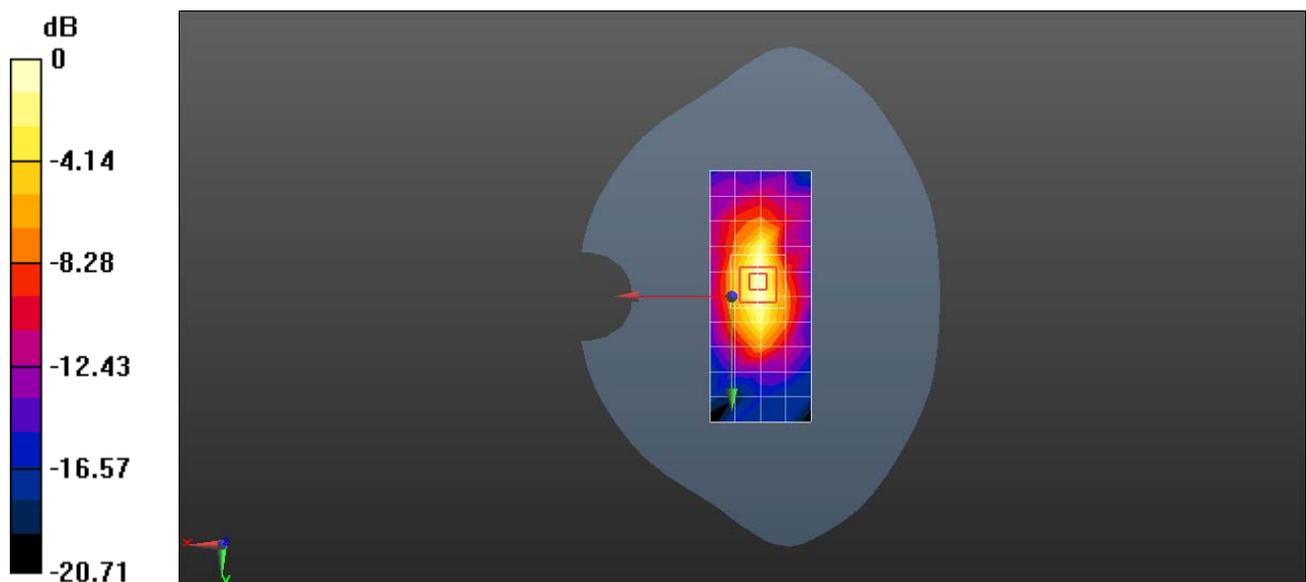
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.296 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.235 W/kg

**SAR(1 g) = 0.128 W/kg; SAR(10 g) = 0.068 W/kg**

Maximum value of SAR (measured) = 0.198 W/kg



0 dB = 0.191 W/kg = -7.19 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band IV 1513CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 39.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(8.3, 8.3, 8.3); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.53 W/kg

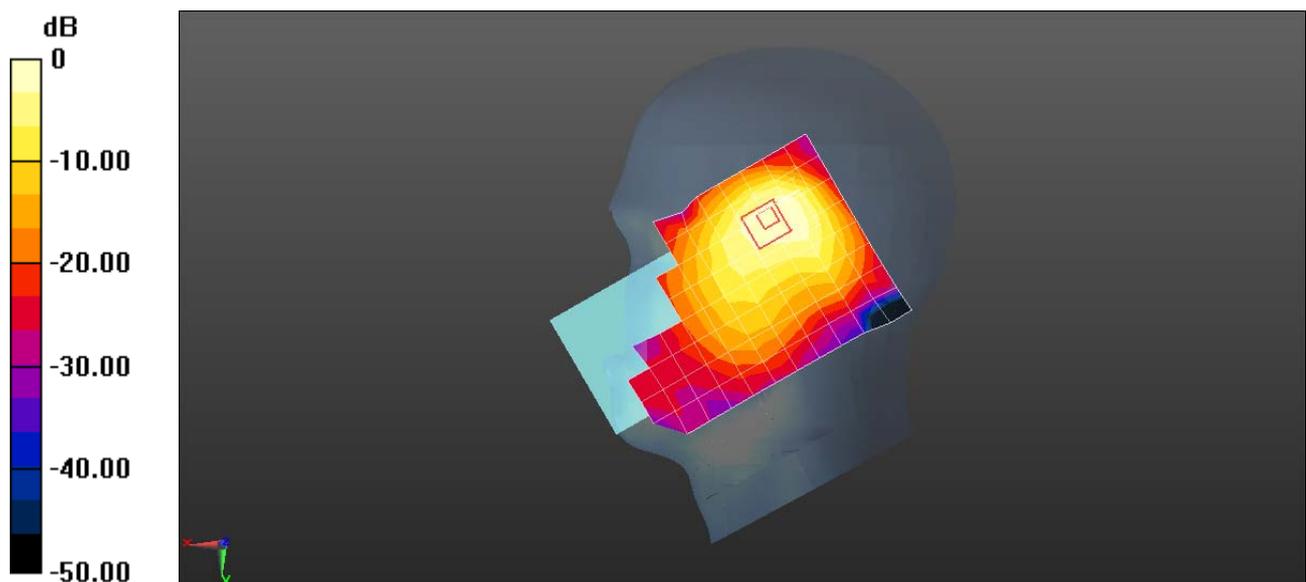
**Configuration/Head/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.09 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 2.03 W/kg

**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.590 W/kg**

Maximum value of SAR (measured) = 1.48 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band IV 1413CH Front side 15mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.765$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.8, 7.8, 7.8); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.117 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.028 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.142 W/kg

**SAR(1 g) = 0.081 W/kg; SAR(10 g) = 0.046 W/kg**

Maximum value of SAR (measured) = 0.115 W/kg

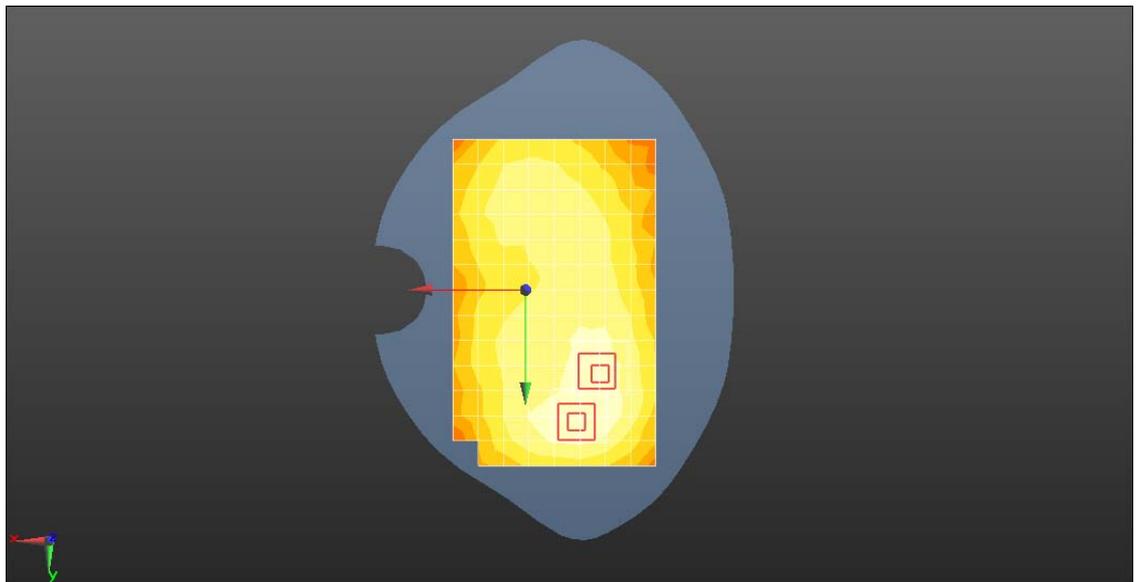
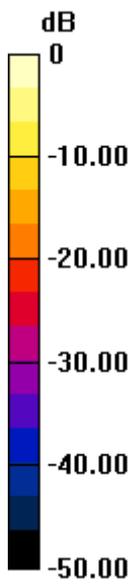
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.028 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.0960 W/kg

**SAR(1 g) = 0.060 W/kg; SAR(10 g) = 0.038 W/kg**

Maximum value of SAR (measured) = 0.0822 W/kg



0 dB = 0.117 W/kg = -9.32 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 UMTS Band IV 1413CH Top side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.765$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.8, 7.8, 7.8); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.309 W/kg

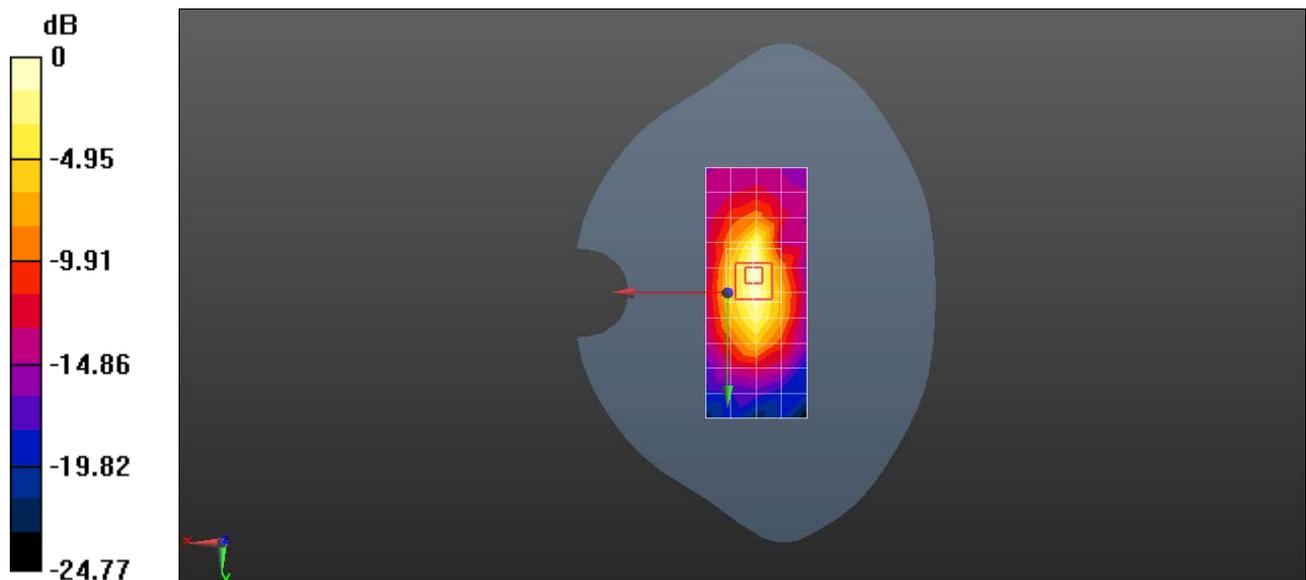
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.18 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.377 W/kg

**SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.110 W/kg**

Maximum value of SAR (measured) = 0.316 W/kg



0 dB = 0.309 W/kg = -5.10 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band V 4132CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 826.4$  MHz;  $\sigma = 0.898$  S/m;  $\epsilon_r = 41.911$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.31 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

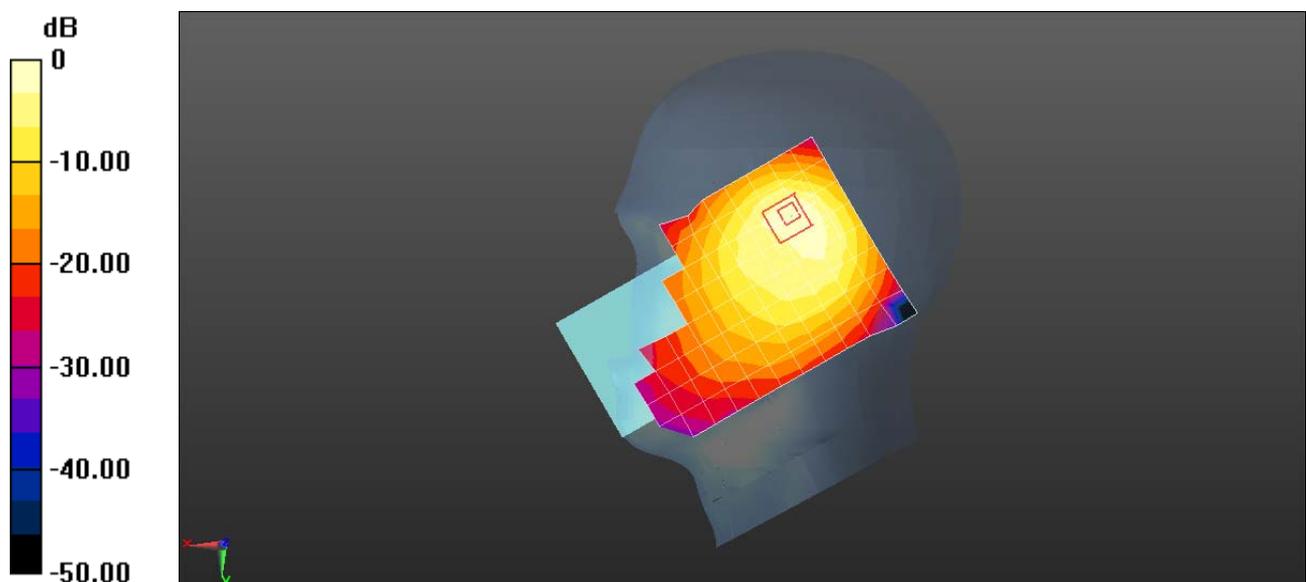
Reference Value = 20.64 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.90 W/kg

**SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.427 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.46 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band V 4182CH Back side 15mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.175 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.053 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.219 W/kg

**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.081 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.188 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

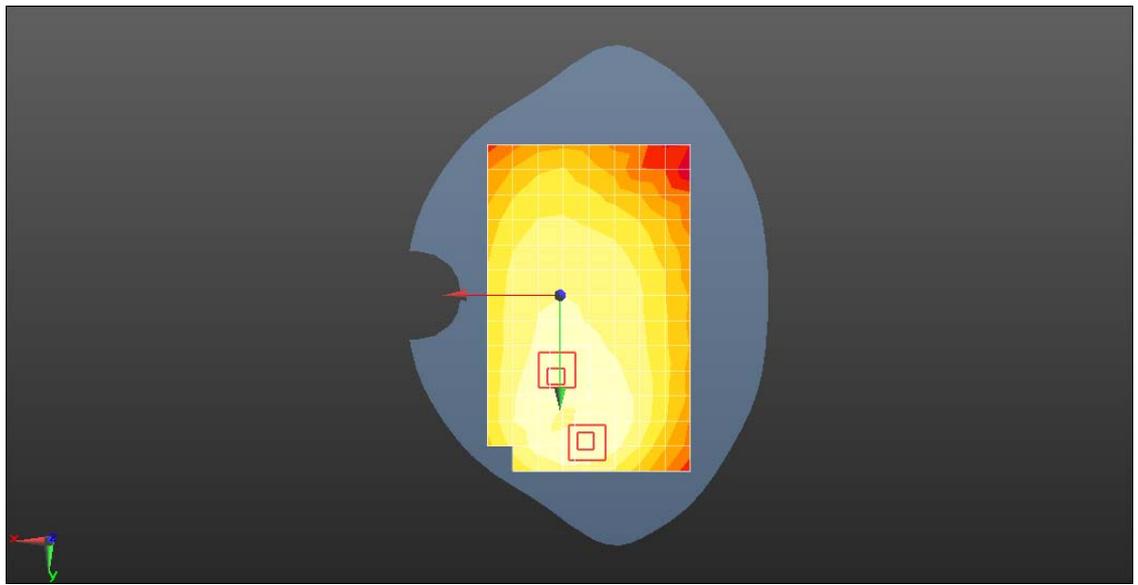
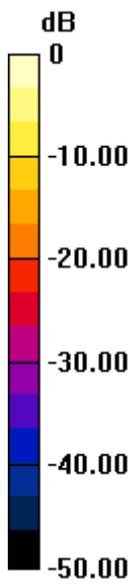
Reference Value = 8.053 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.157 W/kg

**SAR(1 g) = 0.113 W/kg; SAR(10 g) = 0.080 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.175 W/kg = -7.57 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band V 4182CH Back side 10mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.346 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.692 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.534 W/kg

**SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.171 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.438 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

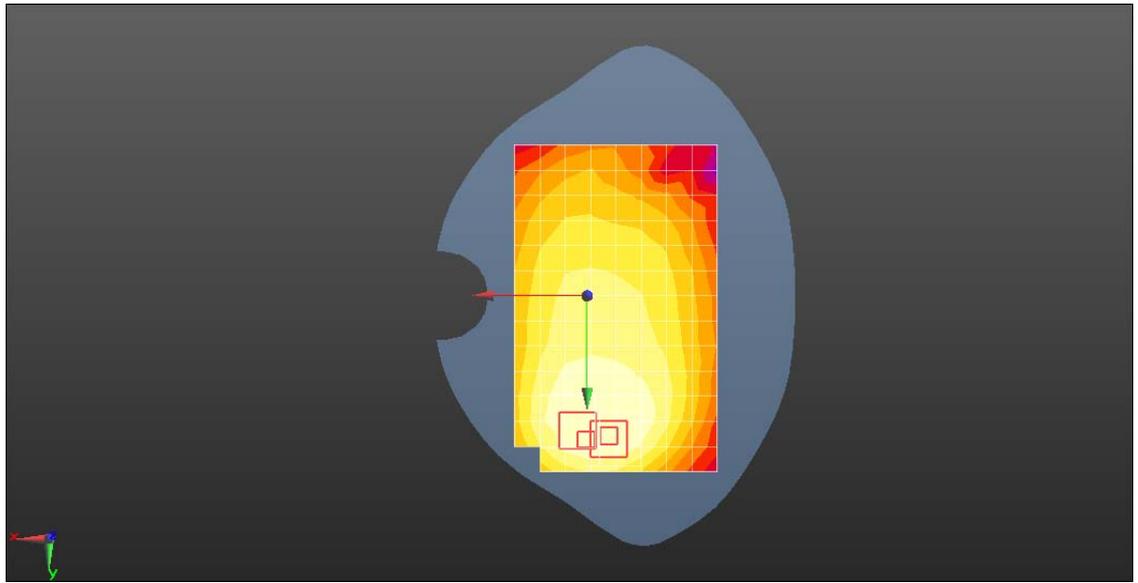
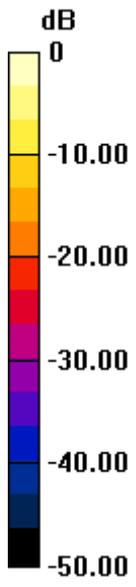
Reference Value = 8.692 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.555 W/kg

**SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.138 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.436 W/kg



0 dB = 0.346 W/kg = -4.61 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18900CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.388$  S/m;  $\epsilon_r = 39.419$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.825 W/kg

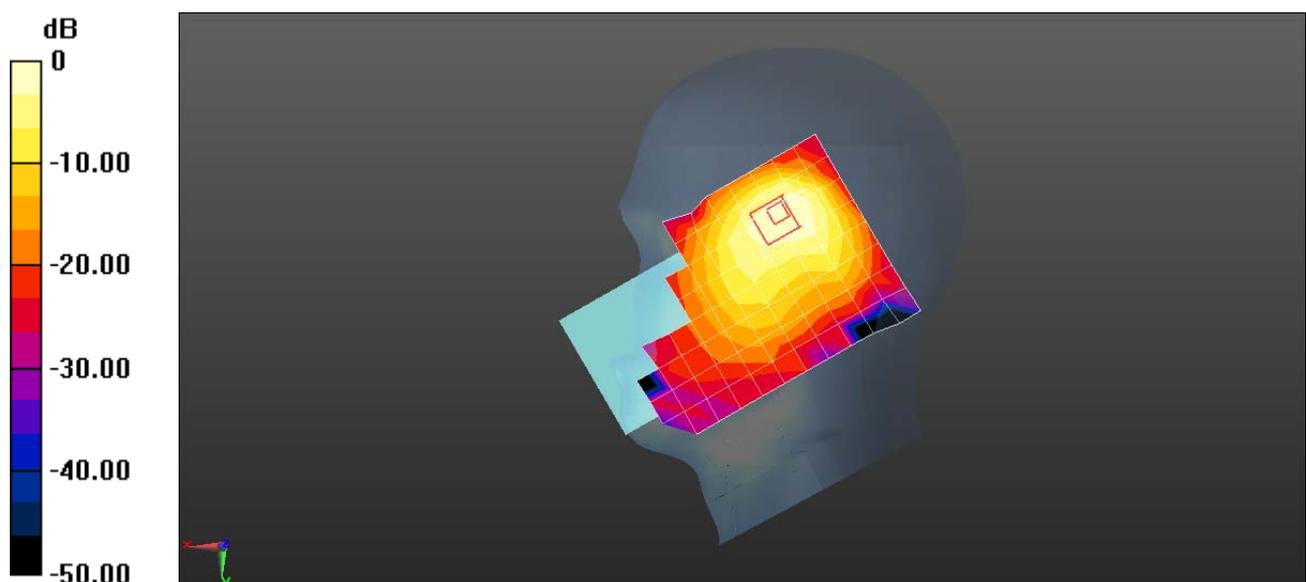
**Configuration/Head/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 11.87 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.324 W/kg**

Maximum value of SAR (measured) = 0.880 W/kg



0 dB = 0.825 W/kg = -0.84 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18900CH Front side 15mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.118 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.467 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.140 W/kg

**SAR(1 g) = 0.087 W/kg; SAR(10 g) = 0.055 W/kg**

Maximum value of SAR (measured) = 0.120 W/kg

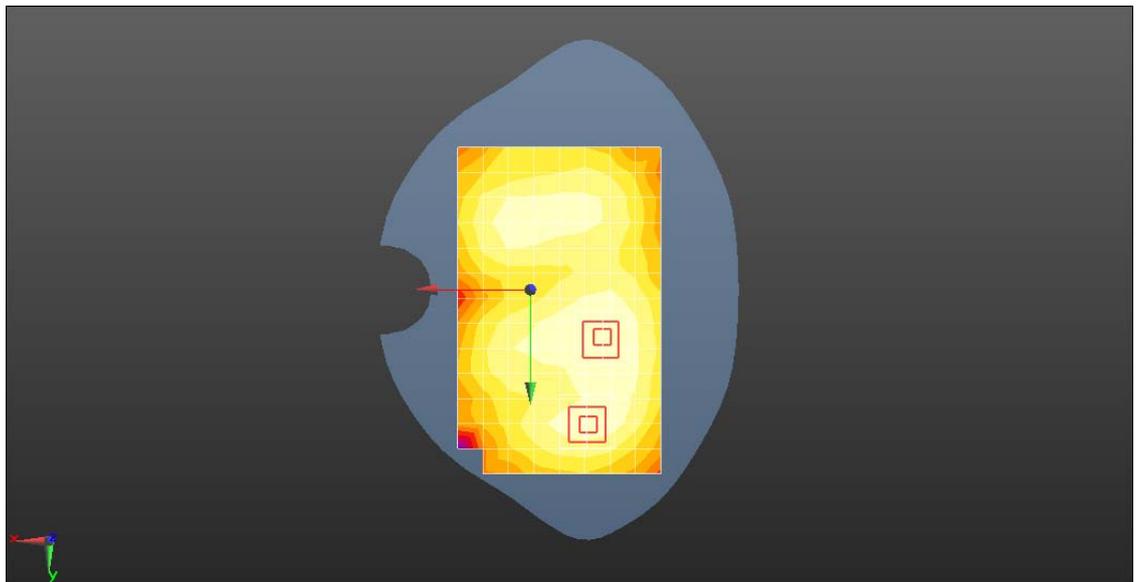
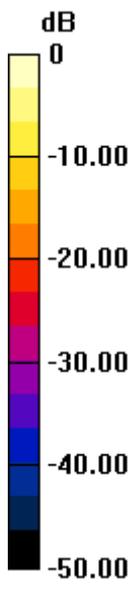
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.467 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.123 W/kg

**SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.036 W/kg**

Maximum value of SAR (measured) = 0.102 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18900CH Top side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.371 W/kg

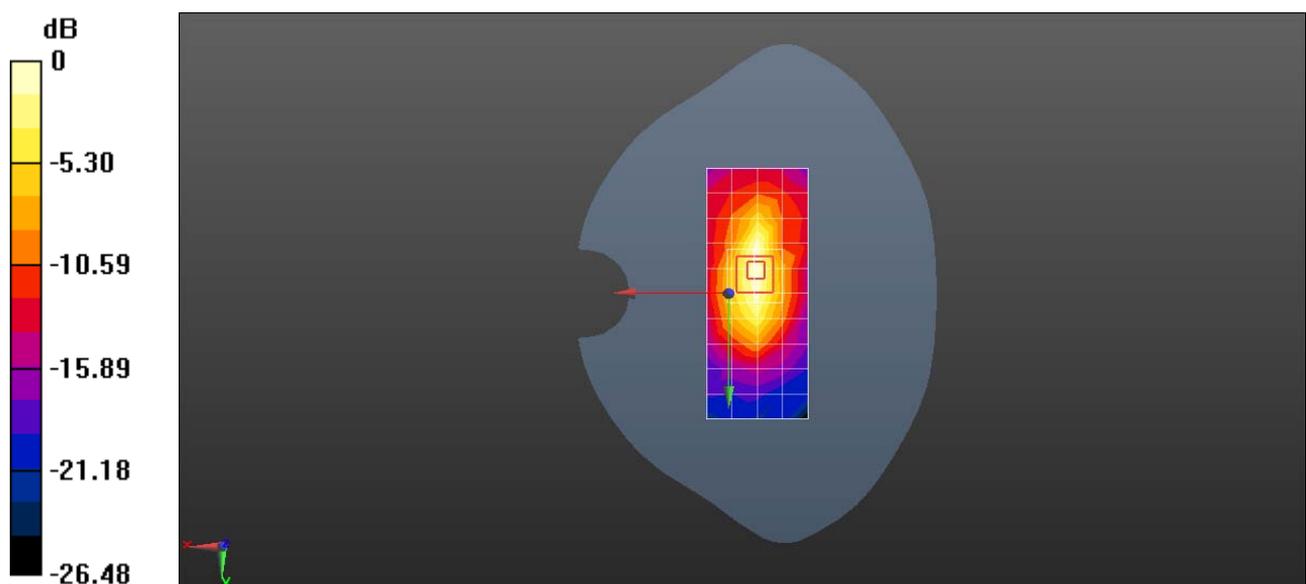
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.18 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.448 W/kg

**SAR(1 g) = 0.241 W/kg; SAR(10 g) = 0.126 W/kg**

Maximum value of SAR (measured) = 0.370 W/kg



0 dB = 0.371 W/kg = -4.31 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band IV 20M QPSK 1RB 50 offset 20050CH Right touch -Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.354$  S/m;  $\epsilon_r = 40.116$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(8.37, 8.37, 8.37); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.52 W/kg

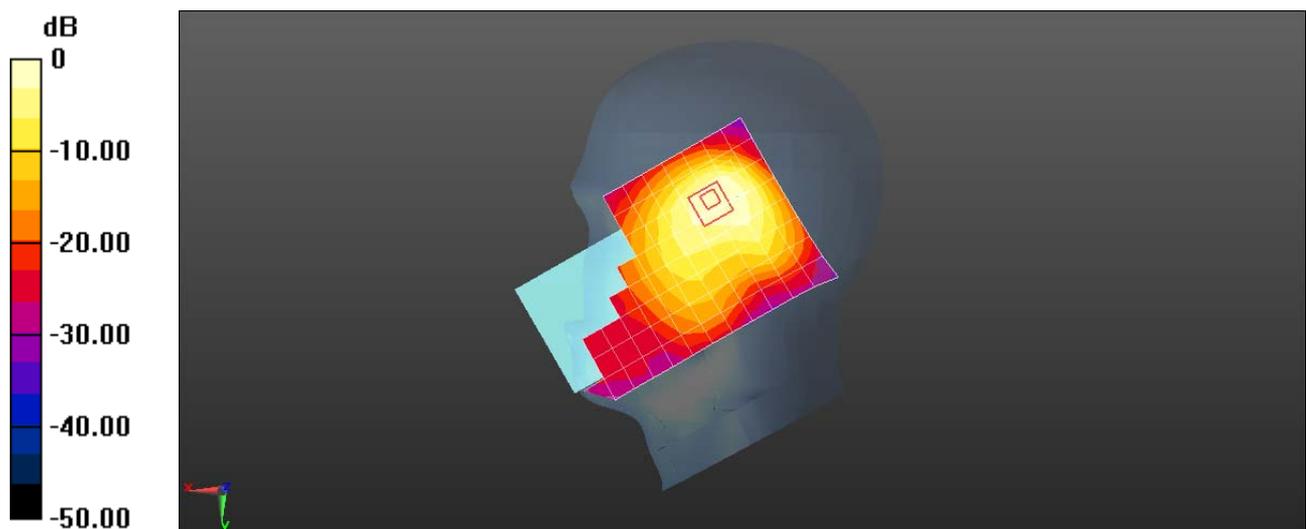
**Configuration/Head/Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.50 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 2.22 W/kg

**SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.575 W/kg**

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.52 W/kg = 1.82 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 LTE Band IV 20M QPSK 1RB 0 offset 20175CH Front Side 15mm with Battery2-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.493$  S/m;  $\epsilon_r = 52.288$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.111 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.847 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.171 W/kg

**SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.059 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.126 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

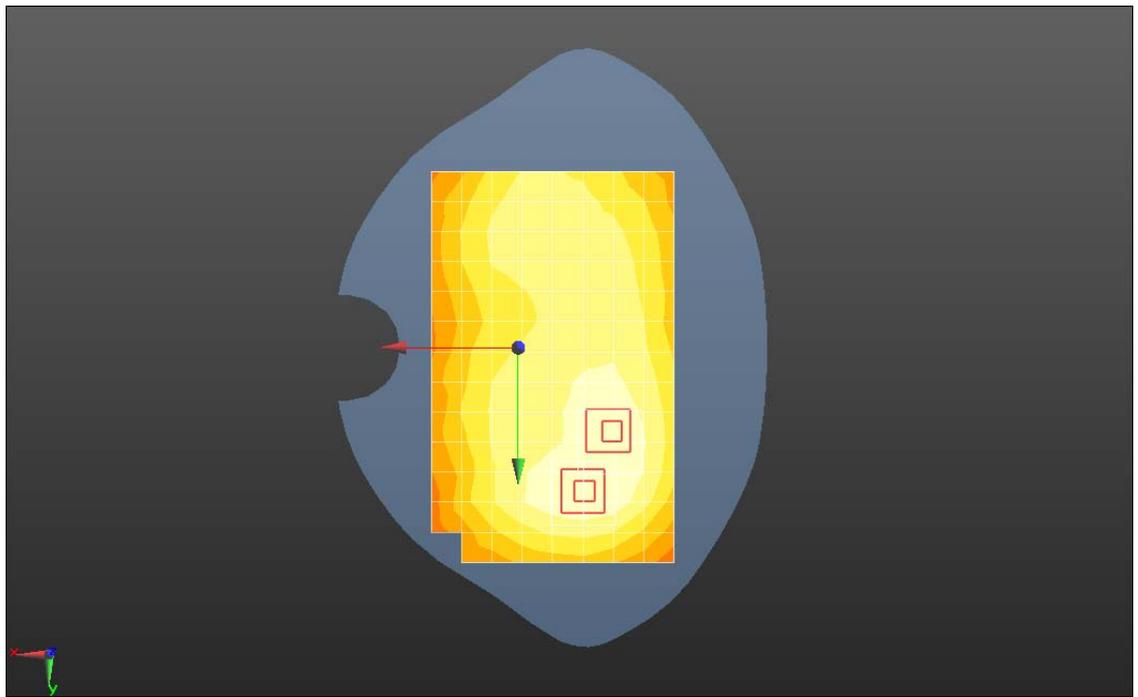
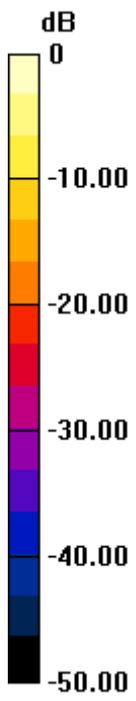
Reference Value = 4.847 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.131 W/kg

**SAR(1 g) = 0.073 W/kg; SAR(10 g) = 0.047 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.0960 W/kg



0 dB = 0.111 W/kg = -9.55 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 LTE Band IV 20M QPSK 1RB 0 offset 20175CH Top Side 10mm-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.493$  S/m;  $\epsilon_r = 52.288$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (6x9x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.276 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

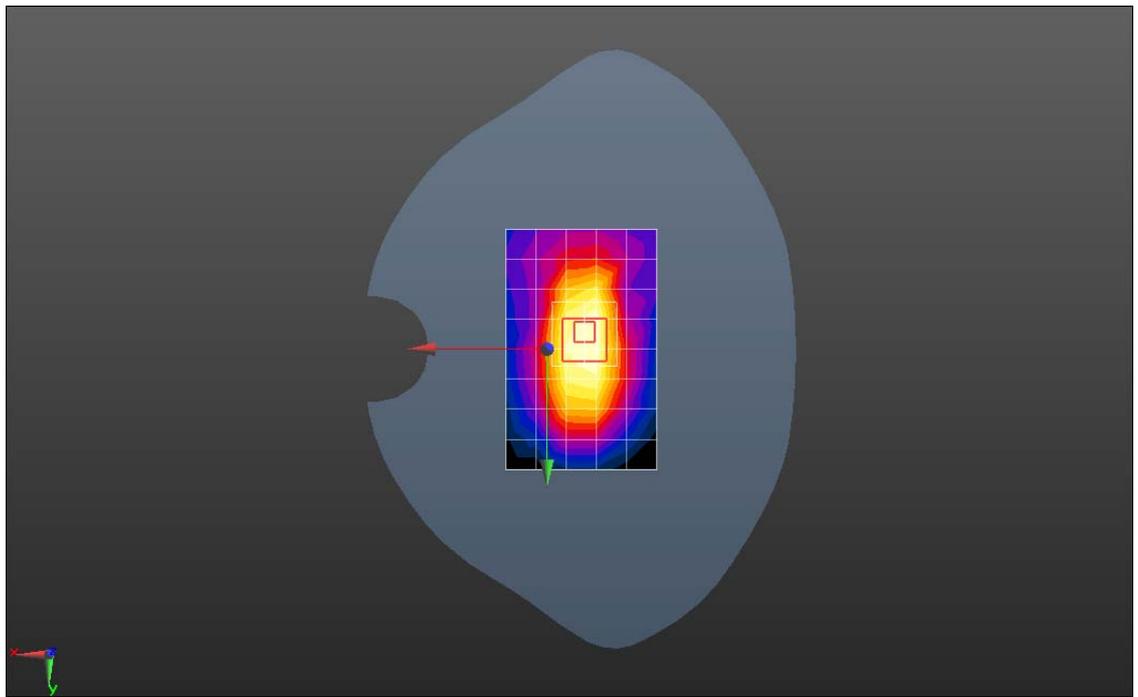
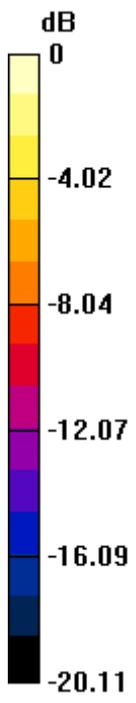
Reference Value = 16.30 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.570 W/kg

**SAR(1 g) = 0.314 W/kg; SAR(10 g) = 0.164 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.399 W/kg



0 dB = 0.276 W/kg = -5.59 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.69 W/kg

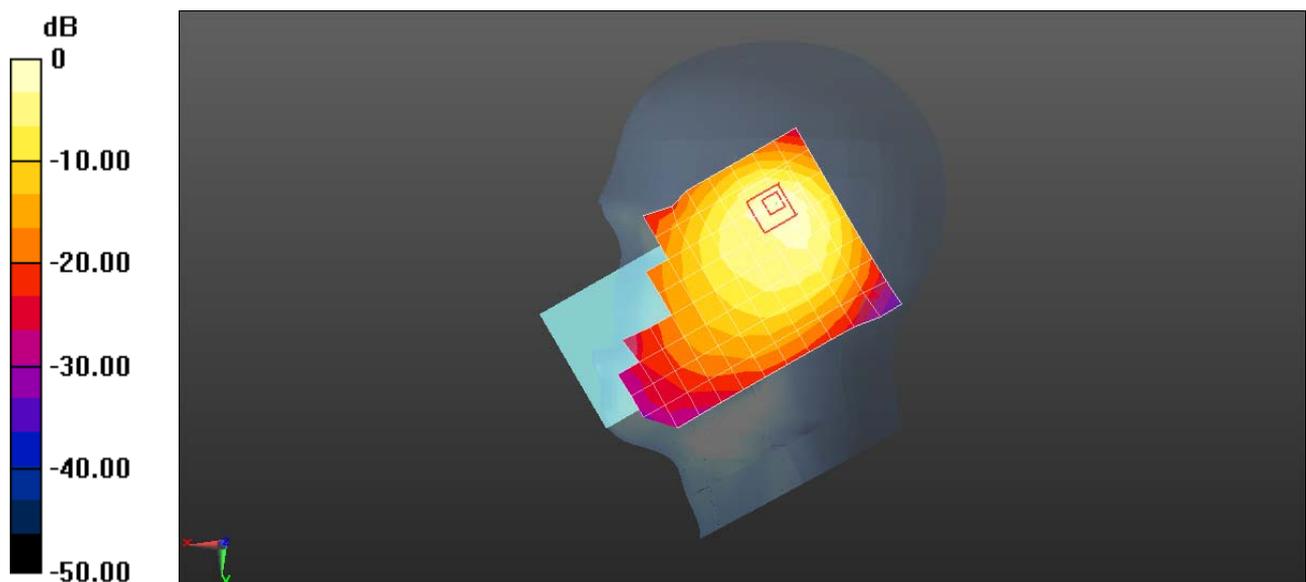
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.05 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 2.32 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.538 W/kg**

Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.955 \text{ S/m}$ ;  $\epsilon_r = 54.218$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.252 W/kg

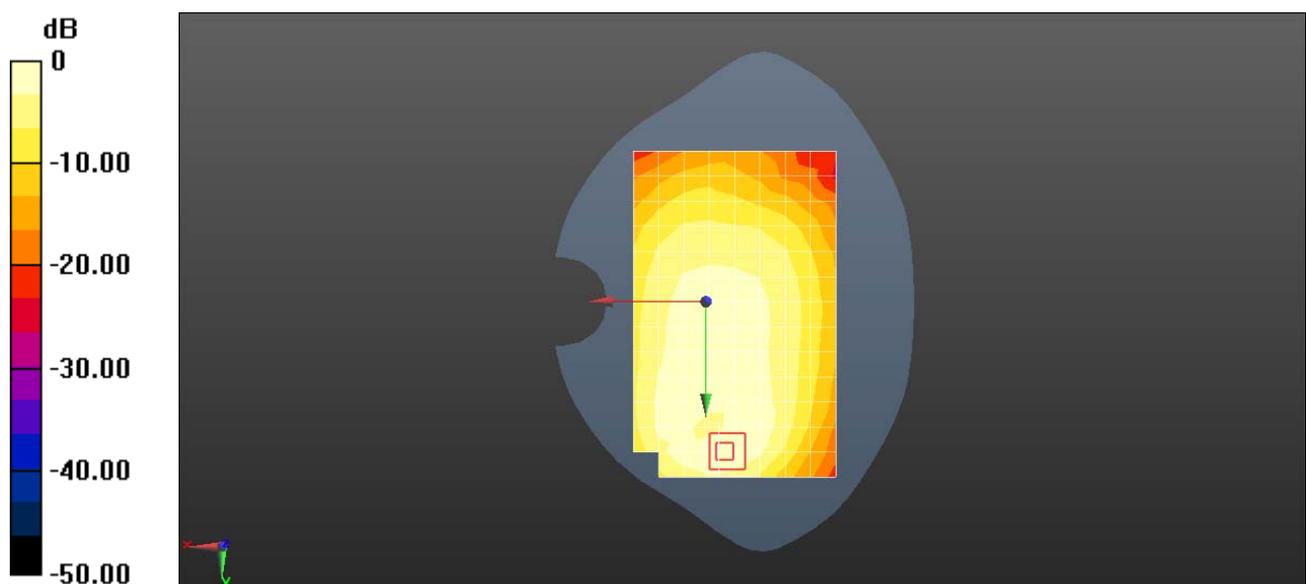
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 11.67 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.305 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.113 W/kg**

Maximum value of SAR (measured) = 0.264 W/kg



0 dB = 0.252 W/kg = -5.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Top side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.955$  S/m;  $\epsilon_r = 54.218$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.544 W/kg

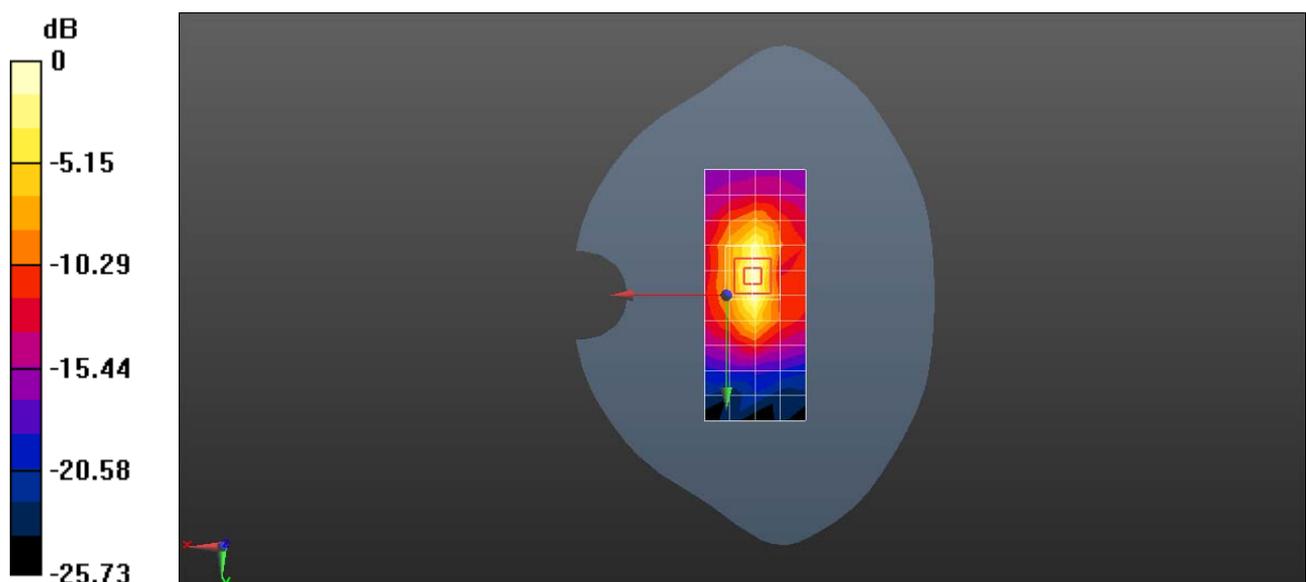
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 18.04 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.715 W/kg

**SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.181 W/kg**

Maximum value of SAR (measured) = 0.573 W/kg



0 dB = 0.544 W/kg = -2.64 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band VII 20M QPSK 50RB 25 offset 21100CH Right tilt-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 1.915$  S/m;  $\epsilon_r = 38.34$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.44, 7.44, 7.44); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 1.16 W/kg

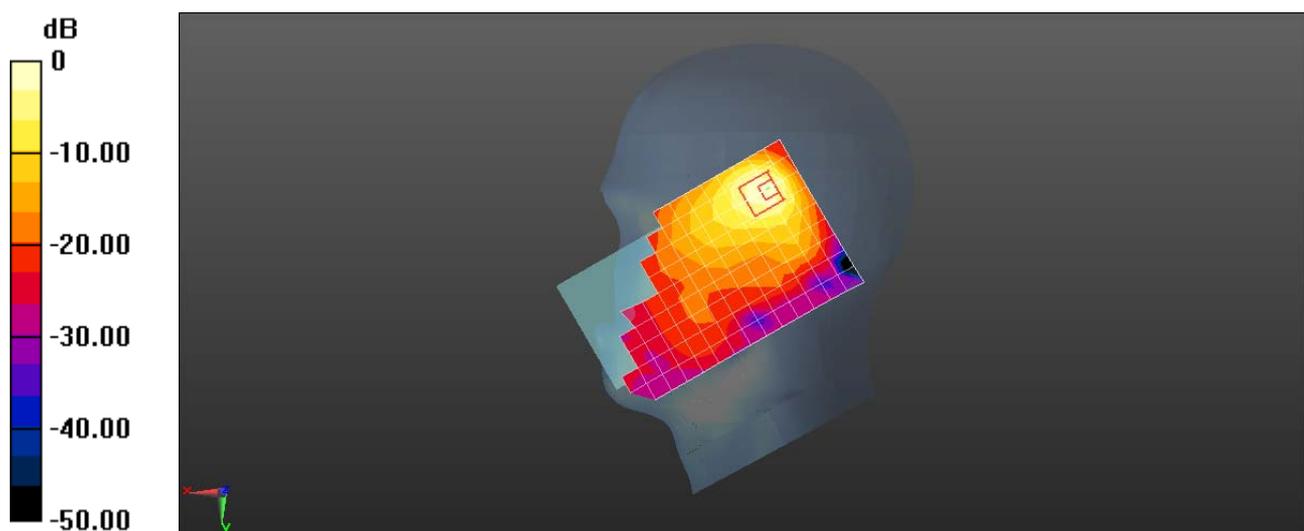
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.780 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.71 W/kg

**SAR(1 g) = 0.649 W/kg; SAR(10 g) = 0.277 W/kg**

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.16 W/kg = 0.64 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band VII 20M QPSK 1RB 99 offset 21100CH Front side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.119$  S/m;  $\epsilon_r = 50.687$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(6.96, 6.96, 6.96); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0860 W/kg

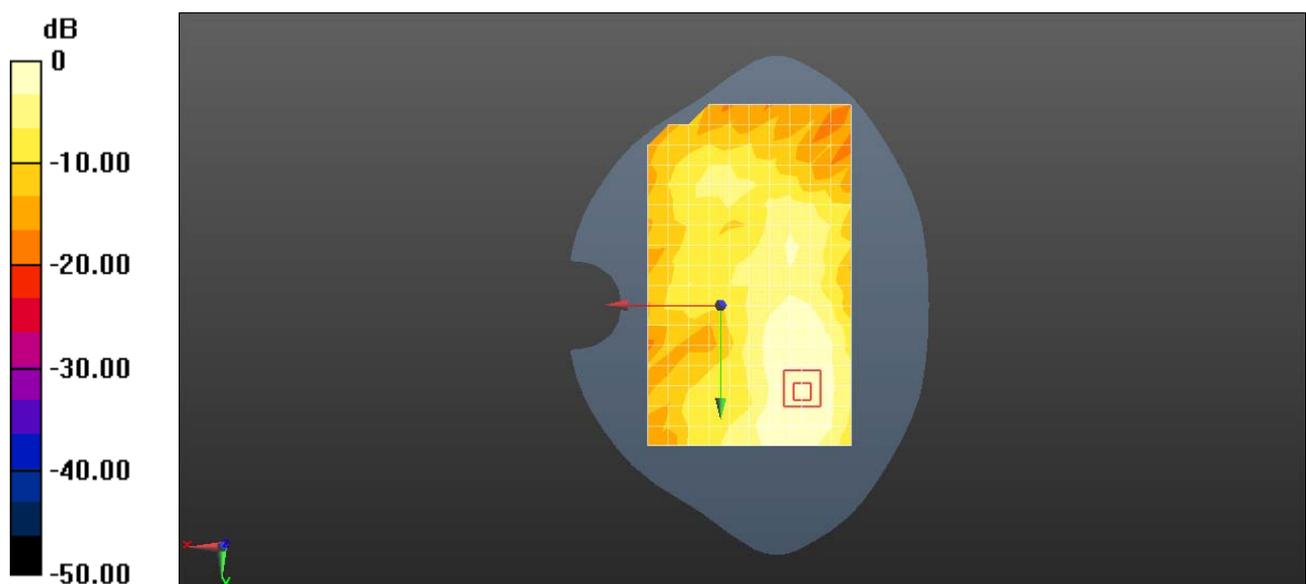
**Configuration/Body/Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.076 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.113 W/kg

**SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.030 W/kg**

Maximum value of SAR (measured) = 0.0899 W/kg



0 dB = 0.0860 W/kg = -10.66 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MHA-L29 LTE Band VII 20M QPSK 1RB 99 offset 21100CH Left side 10mm with Battery2-Second Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2535$  MHz;  $\sigma = 2.066$  S/m;  $\epsilon_r = 50.607$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.43, 7.43, 7.43); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.198 W/kg

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

Reference Value = 8.187 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.268 W/kg

**SAR(1 g) = 0.144 W/kg; SAR(10 g) = 0.075 W/kg**

Maximum value of SAR (measured) = 0.223 W/kg

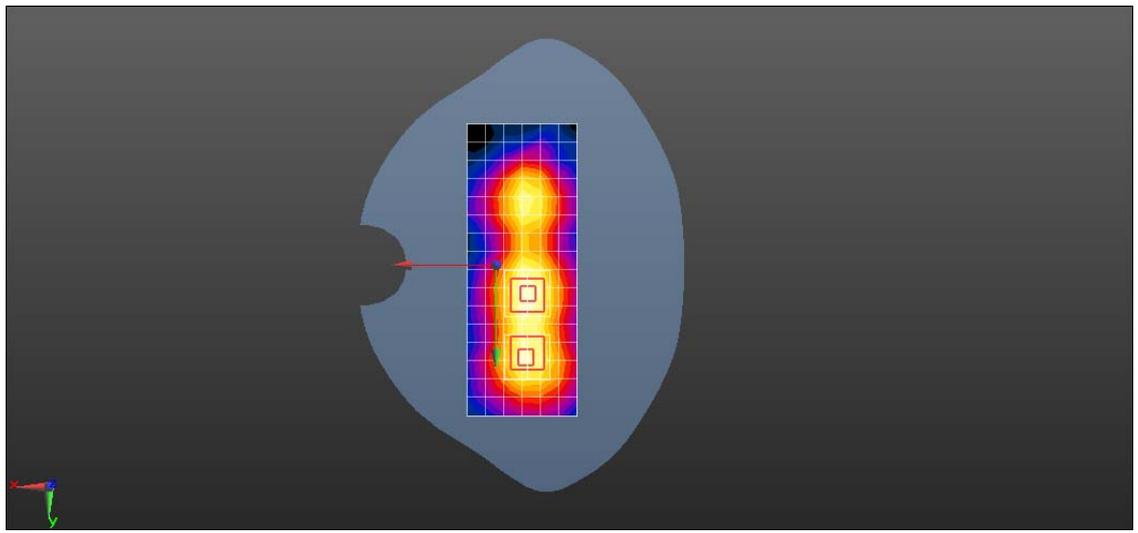
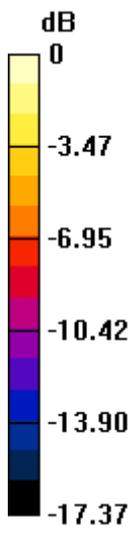
**Configuration/Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.187 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.207 W/kg

**SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.056 W/kg**

Maximum value of SAR (measured) = 0.171 W/kg



0 dB = 0.198 W/kg = -7.03 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 1RB 25 offset 23060CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 704$  MHz;  $\sigma = 0.908$  S/m;  $\epsilon_r = 42.526$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.93, 6.93, 6.93); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.964 W/kg

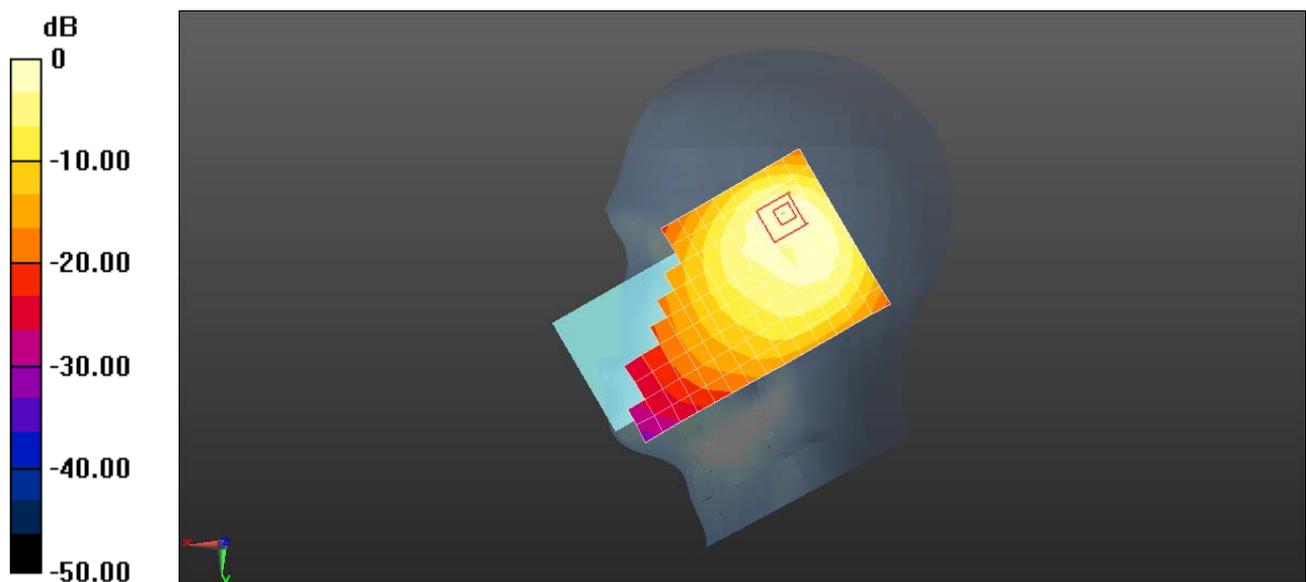
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 19.37 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.07 W/kg

**SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.443 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 0.964 W/kg = -0.16 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 25RB 13 offset 23130CH Back Side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.0695 W/kg

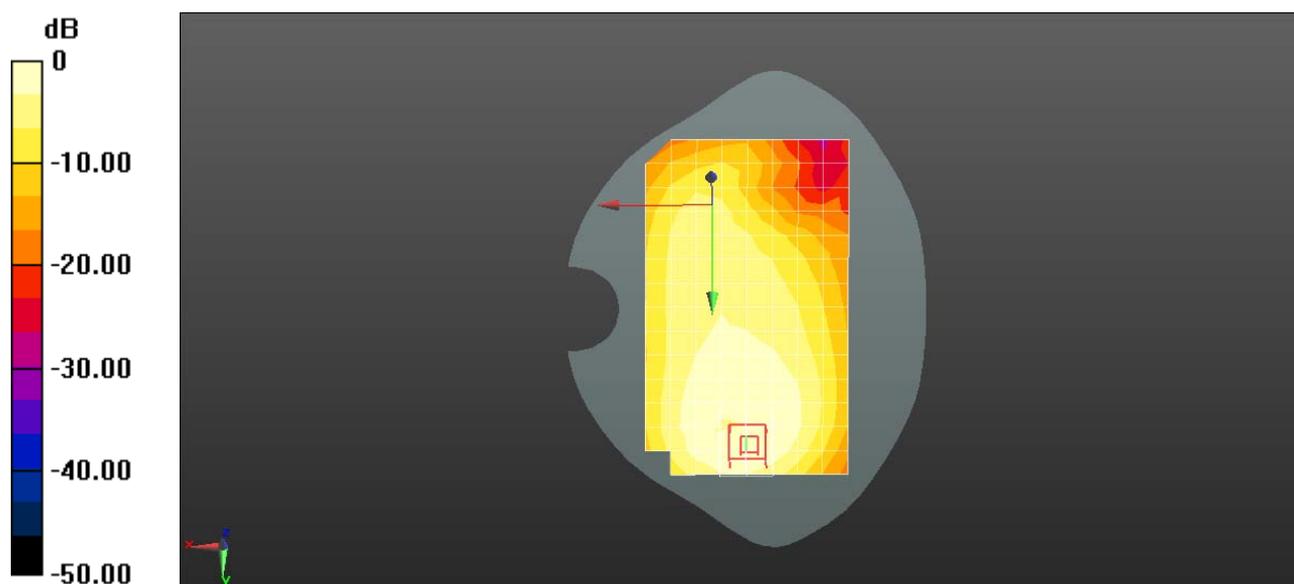
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.547 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0970 W/kg

**SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.035 W/kg**

Maximum value of SAR (measured) = 0.0694 W/kg



0 dB = 0.0695 W/kg = -11.58 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 25RB 13 offset 23130CH Back Side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.243 W/kg

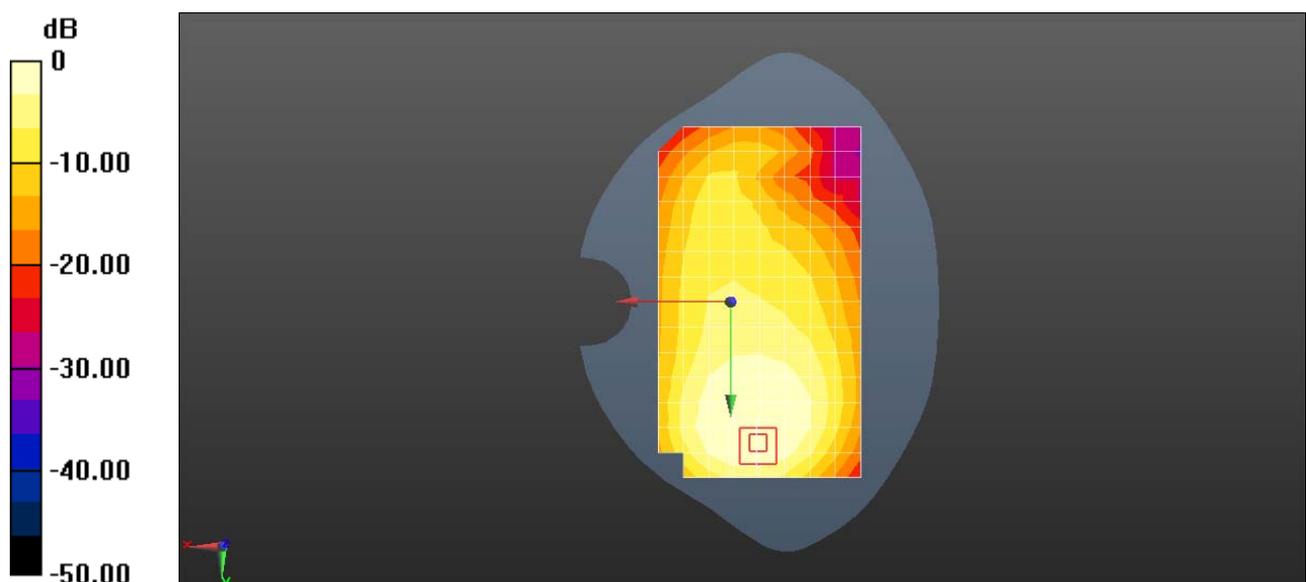
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.816 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.430 W/kg

**SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.133 W/kg**

Maximum value of SAR (measured) = 0.273 W/kg



0 dB = 0.243 W/kg = -6.14 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XVII 10M QPSK 1RB 25 offset 23790CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.514$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.93, 6.93, 6.93); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.954 W/kg

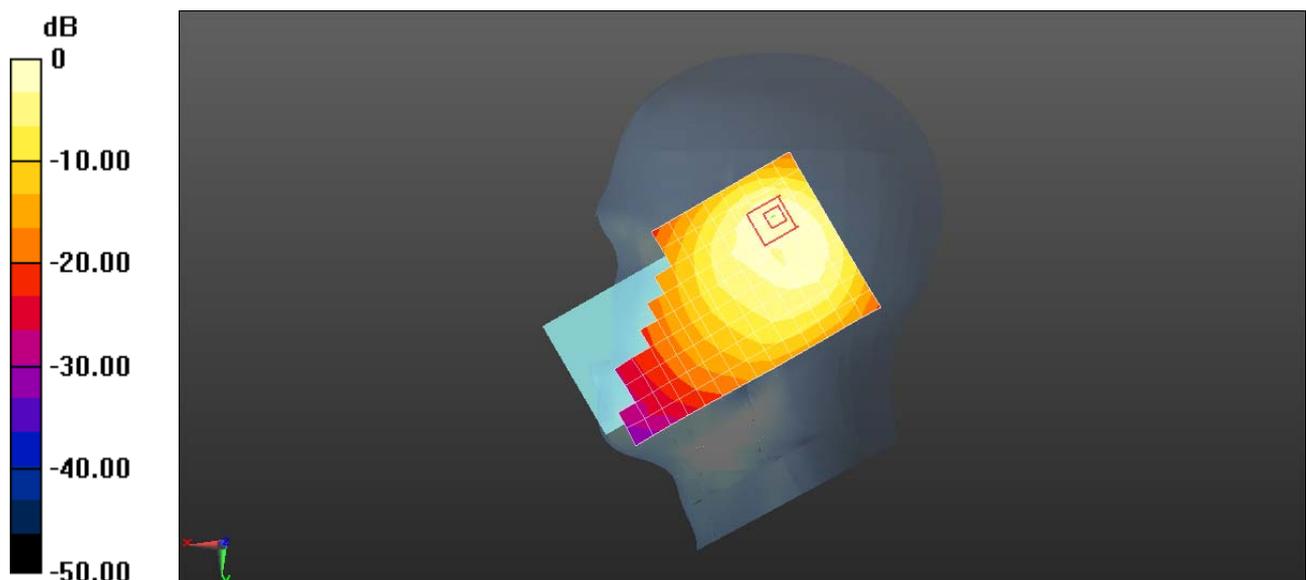
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 19.43 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 2.07 W/kg

**SAR(1 g) = 0.853 W/kg; SAR(10 g) = 0.442 W/kg**

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 0.954 W/kg = -0.20 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XVII 10M QPSK 1RB 25 offset 23790CH Back Side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 710 \text{ MHz}$ ;  $\sigma = 0.956 \text{ S/m}$ ;  $\epsilon_r = 56.156$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

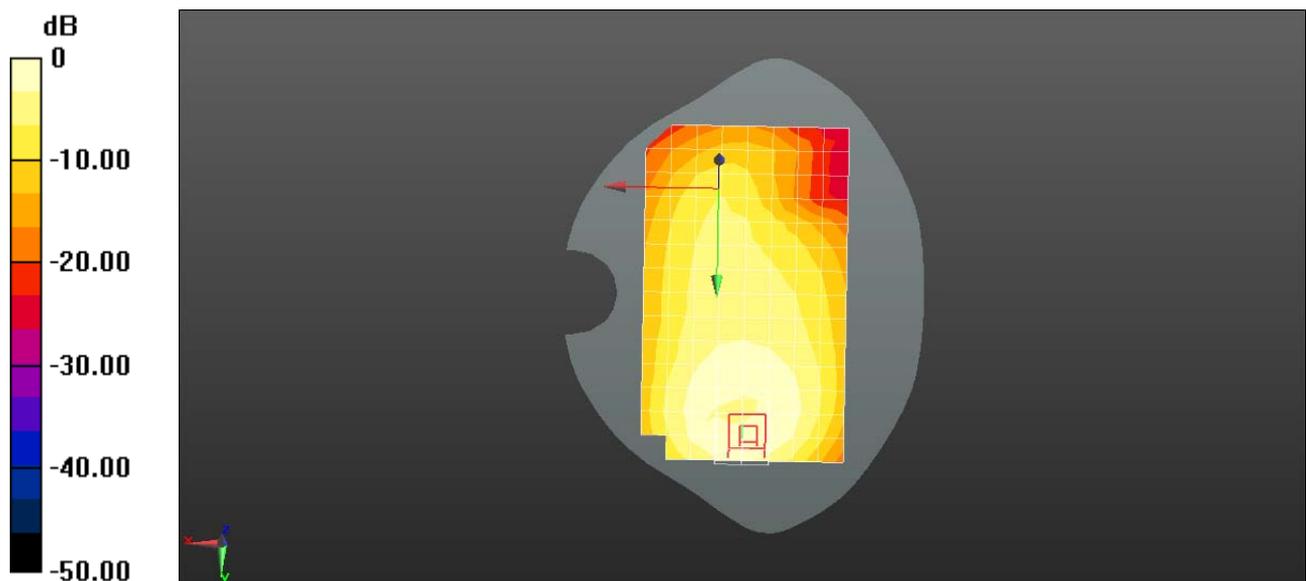
Maximum value of SAR (measured) =  $0.172 \text{ W/kg}$

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $7.837 \text{ V/m}$ ; Power Drift =  $0.00 \text{ dB}$

Peak SAR (extrapolated) =  $0.240 \text{ W/kg}$

**SAR(1 g) =  $0.144 \text{ W/kg}$ ; SAR(10 g) =  $0.086 \text{ W/kg}$**



$0 \text{ dB} = 0.172 \text{ W/kg} = -7.64 \text{ dBW/kg}$

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XVII 10M QPSK 50RB 13 offset 23800CH Back Side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.475 W/kg

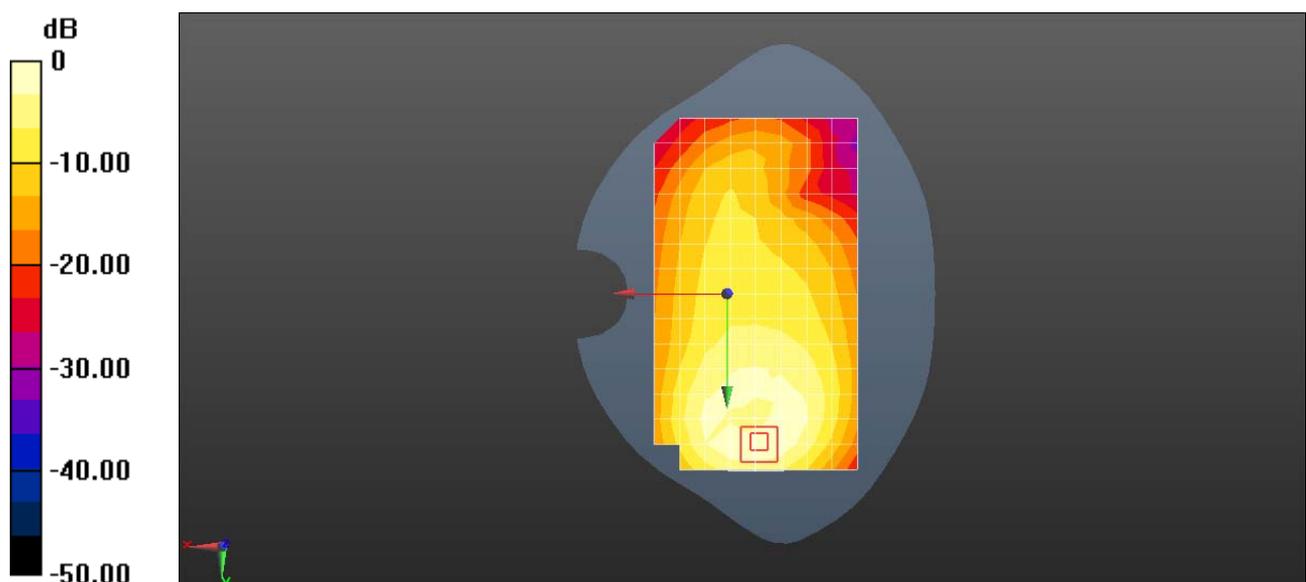
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.175 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.721 W/kg

**SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.222 W/kg**

Maximum value of SAR (measured) = 0.472 W/kg



0 dB = 0.475 W/kg = -3.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26865CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 41.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.58 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

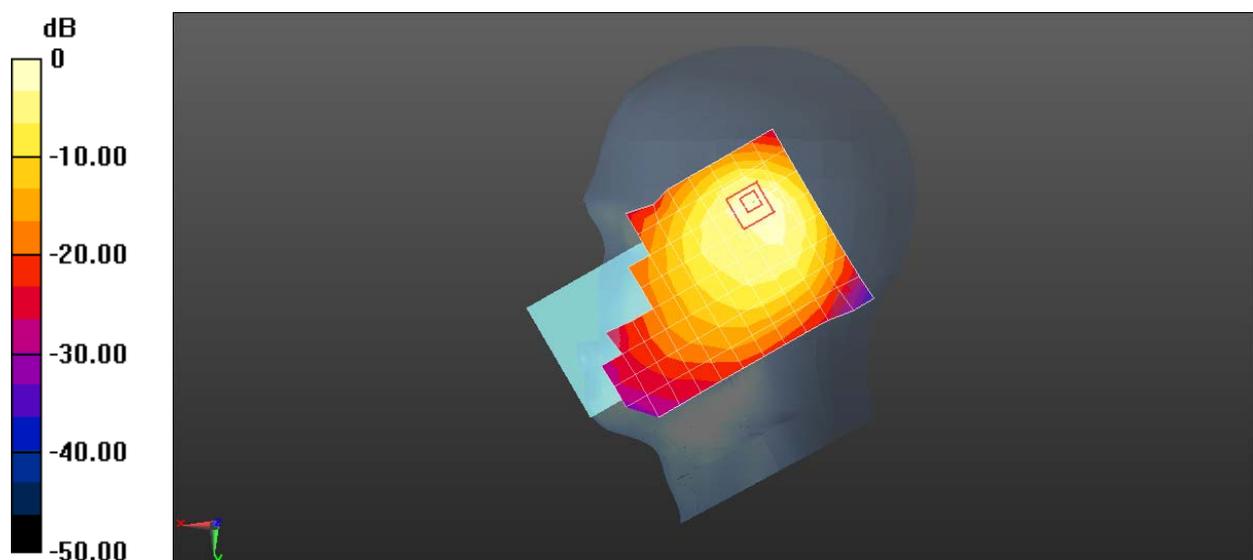
Reference Value = 21.82 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.17 W/kg

**SAR(1 g) = 0.940 W/kg; SAR(10 g) = 0.497 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26965CH Back Side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 841.5$  MHz;  $\sigma = 0.988$  S/m;  $\epsilon_r = 53.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(9.53, 9.53, 9.53); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.331 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

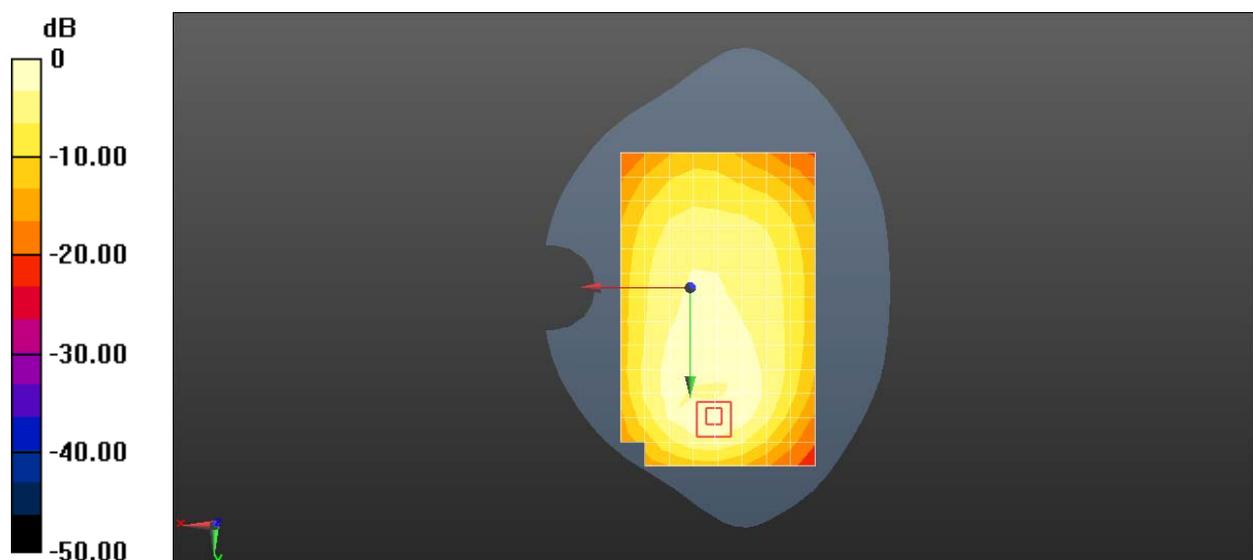
Reference Value = 11.91 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.395 W/kg

**SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.138 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.328 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26965CH Back Side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 841.5$  MHz;  $\sigma = 0.988$  S/m;  $\epsilon_r = 53.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(9.53, 9.53, 9.53); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.632 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

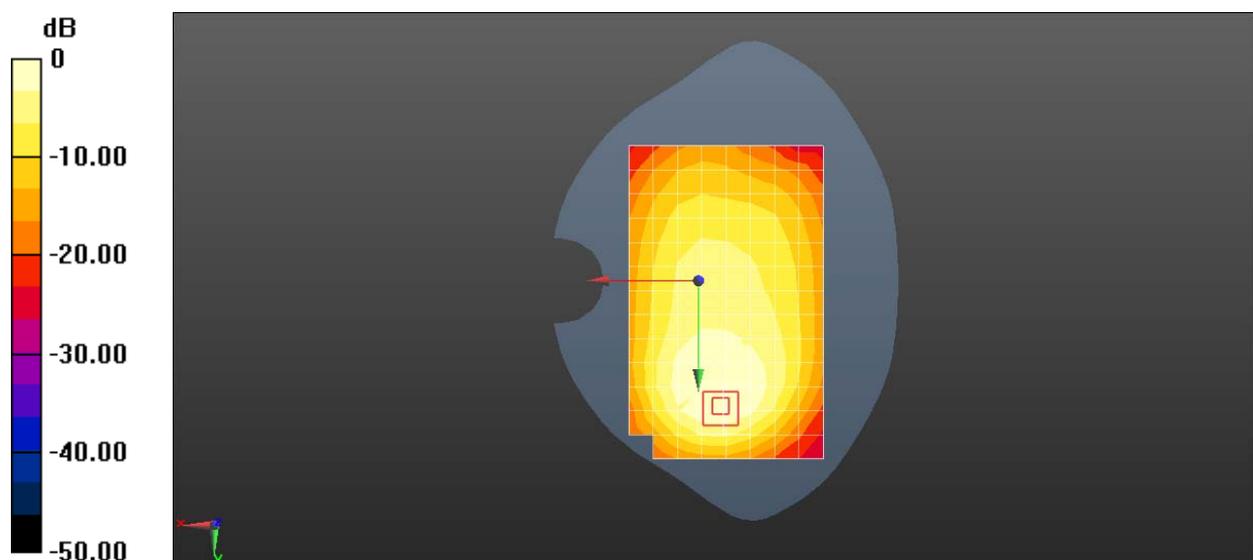
Reference Value = 12.55 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.925 W/kg

**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.275 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.693 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 50 offset 38150CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 1.979$  S/m;  $\epsilon_r = 38.198$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.31, 7.31, 7.31); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 1.48 W/kg

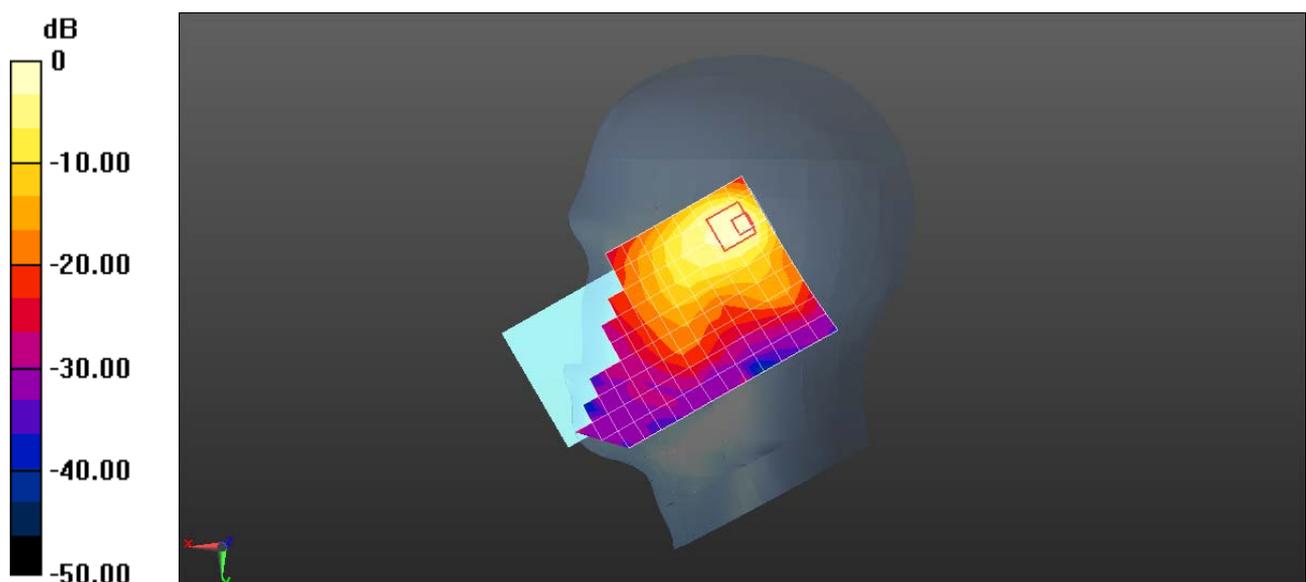
**Configuration/Head/Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.193 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 1.99 W/kg

**SAR(1 g) = 0.763 W/kg; SAR(10 g) = 0.365 W/kg**

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.48 W/kg = 1.70 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 99 offset 38000CH Front side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2595$  MHz;  $\sigma = 2.211$  S/m;  $\epsilon_r = 50.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.116 W/kg

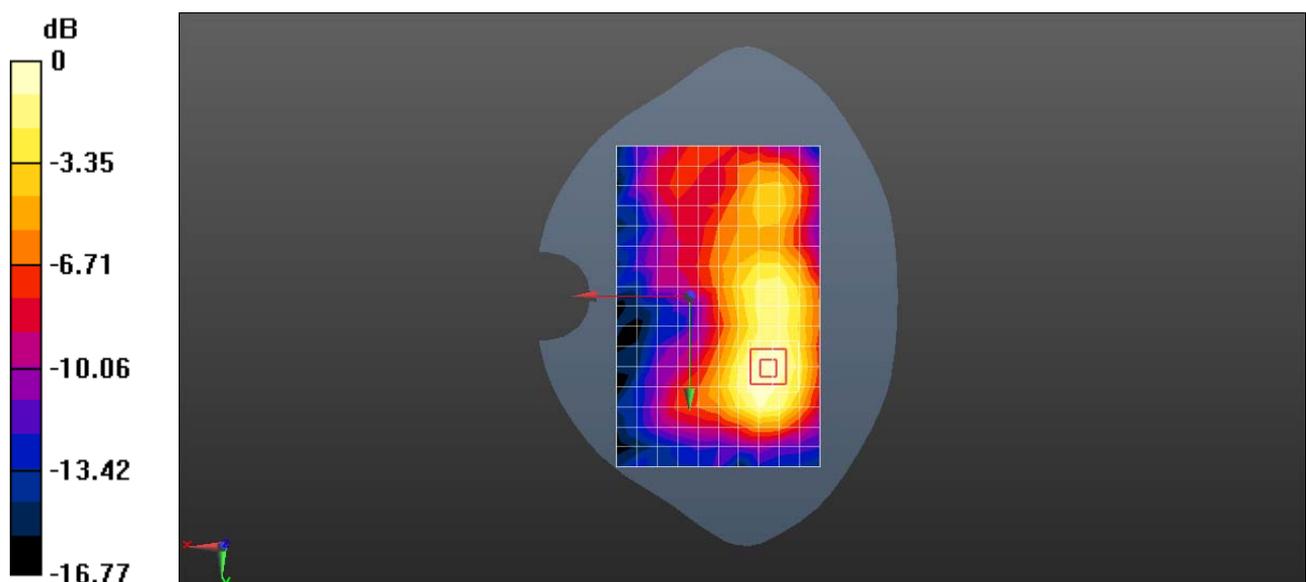
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.119 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.145 W/kg

**SAR(1 g) = 0.078 W/kg; SAR(10 g) = 0.043 W/kg**

Maximum value of SAR (measured) = 0.119 W/kg



0 dB = 0.116 W/kg = -9.36 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 99 offset 38000CH Left side 10mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2595 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2595$  MHz;  $\sigma = 2.211$  S/m;  $\epsilon_r = 50.276$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x17x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.259 W/kg

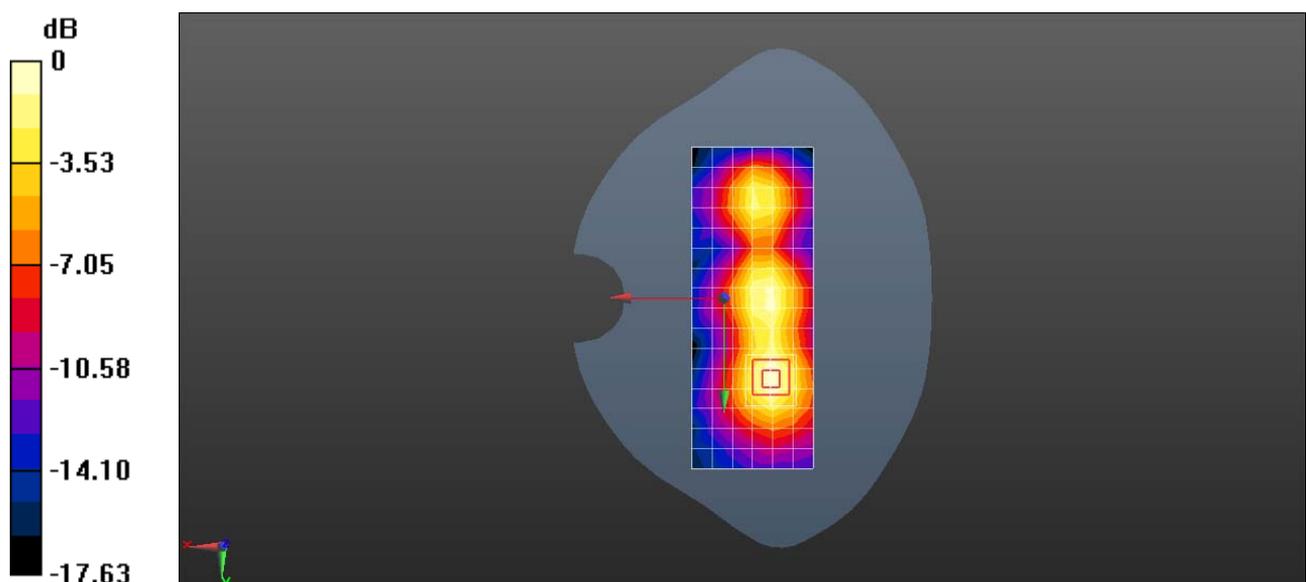
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.370 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.349 W/kg

**SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.088 W/kg**

Maximum value of SAR (measured) = 0.285 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XLI 20M QPSK 1RB 99 offset 41140CH Right touch-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2645 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2645$  MHz;  $\sigma = 2.016$  S/m;  $\epsilon_r = 38.161$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.31, 7.31, 7.31); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 1.26 W/kg

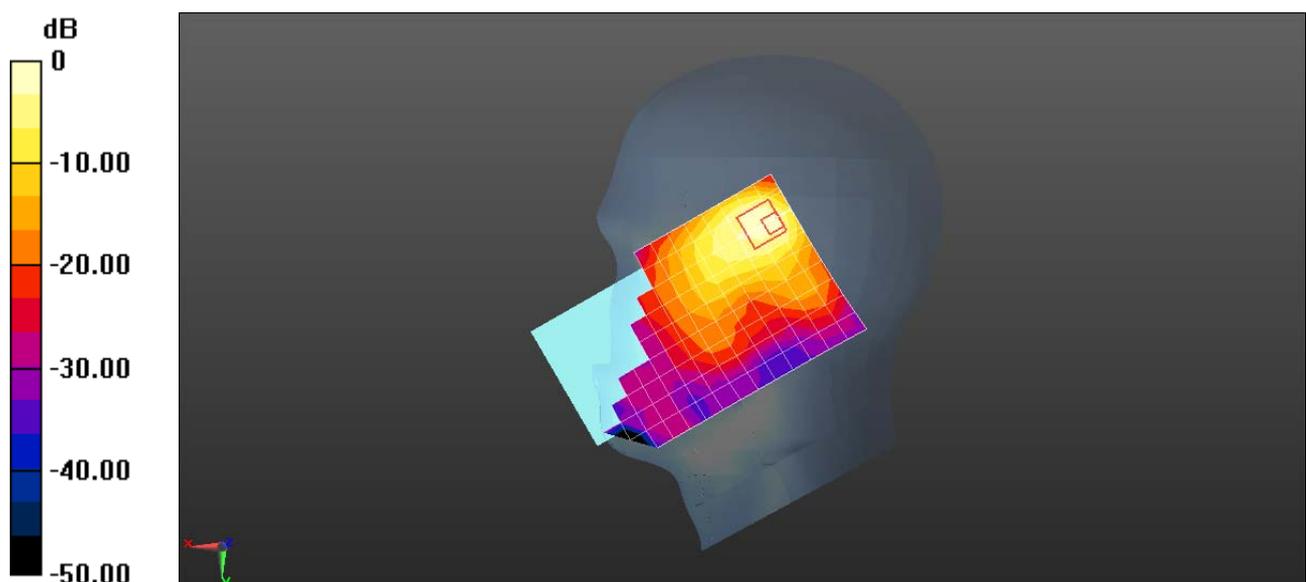
**Configuration/Head/Zoom Scan (7x8x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 7.268 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.650 W/kg; SAR(10 g) = 0.298 W/kg**

Maximum value of SAR (measured) = 1.19 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XLI 20M QPSK 1RB 50 offset 40340CH Front side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2565 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2565$  MHz;  $\sigma = 2.181$  S/m;  $\epsilon_r = 50.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.0477 W/kg

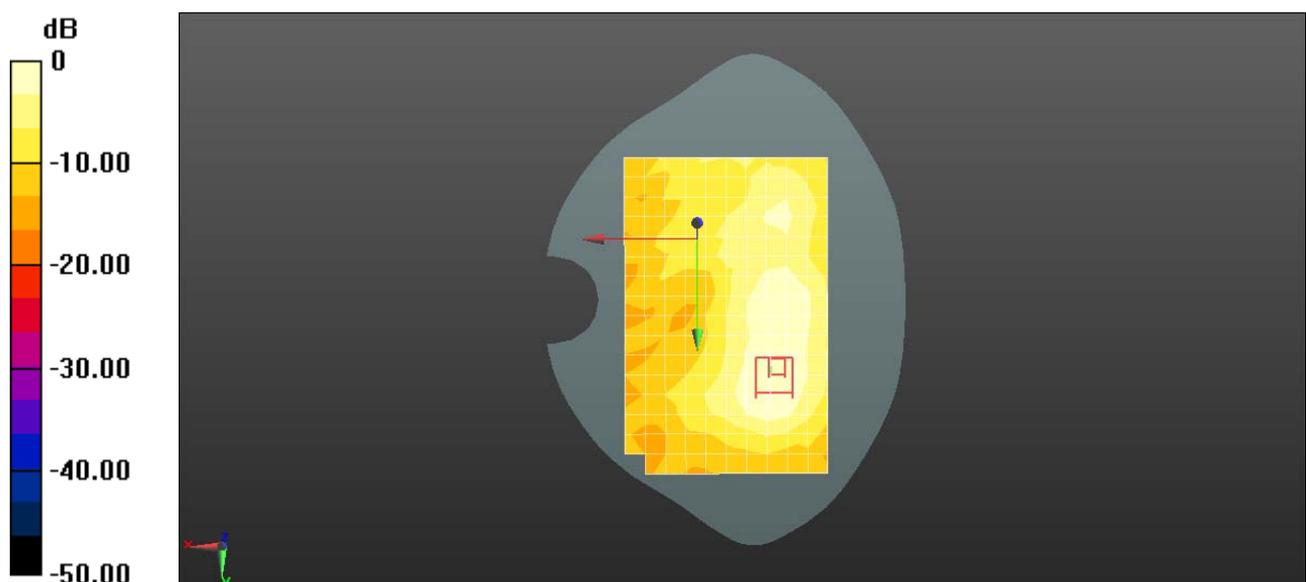
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.850 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.0590 W/kg

**SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.016 W/kg**

Maximum value of SAR (measured) = 0.0464 W/kg



0 dB = 0.0477 W/kg = -13.21 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XLI 20M QPSK 1RB 50 offset 40340CH Left side 15mm-Second Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2565 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2565$  MHz;  $\sigma = 2.181$  S/m;  $\epsilon_r = 50.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x17x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.105 W/kg

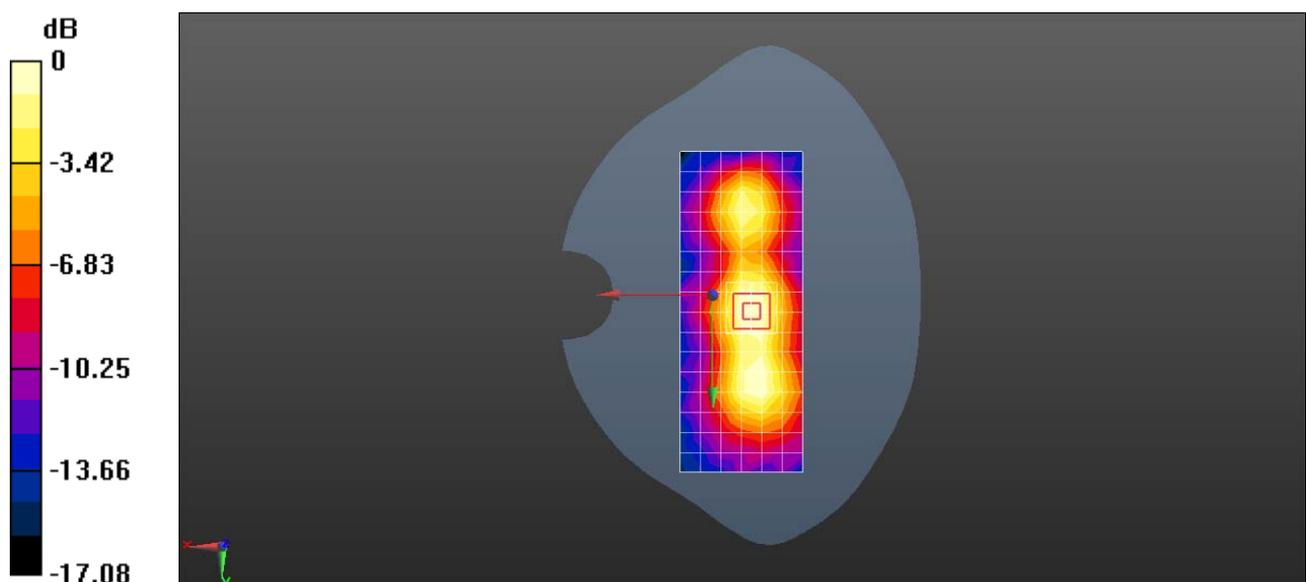
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.985 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.154 W/kg

**SAR(1 g) = 0.080 W/kg; SAR(10 g) = 0.041 W/kg**

Maximum value of SAR (measured) = 0.126 W/kg



0 dB = 0.105 W/kg = -9.79 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 251CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 848.8 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 849$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.868$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.219 W/kg

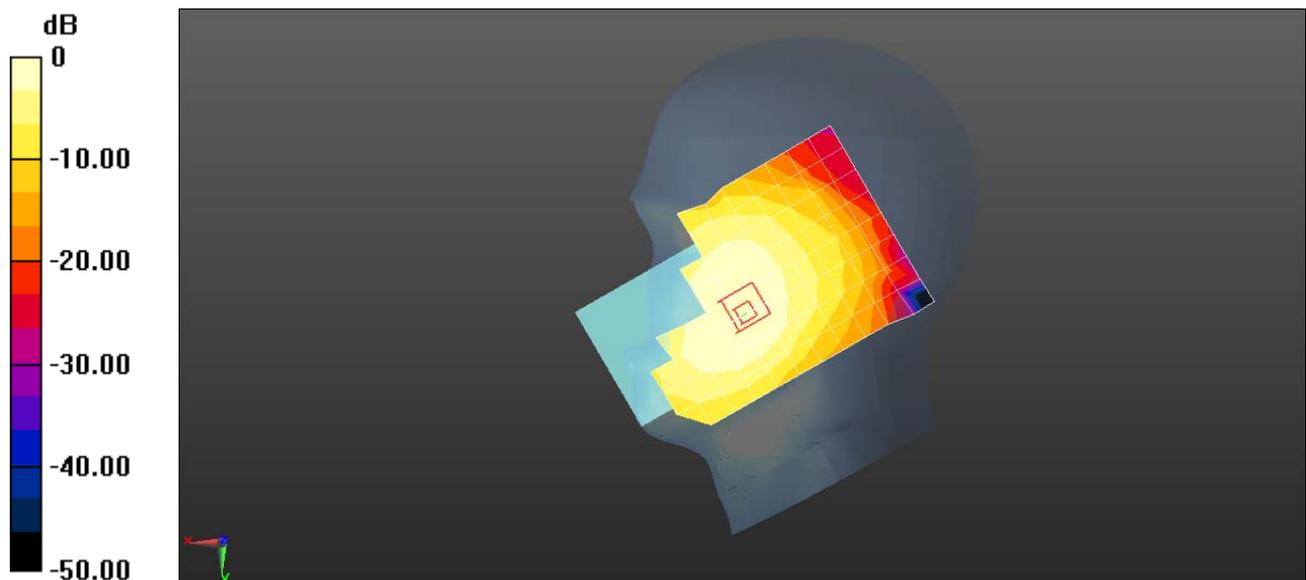
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.853 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.237 W/kg

**SAR(1 g) = 0.188 W/kg; SAR(10 g) = 0.146 W/kg**

Maximum value of SAR (measured) = 0.220 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 190CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.255 W/kg

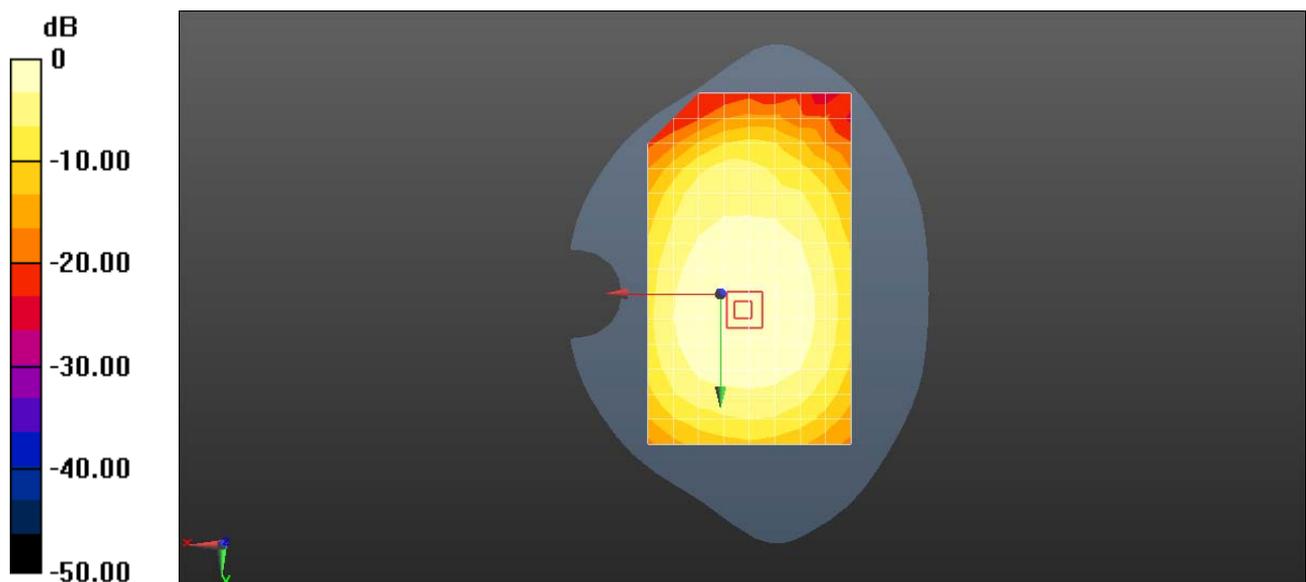
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 14.96 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.284 W/kg

**SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.165 W/kg**

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.255 W/kg = -5.93 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM850 GPRS 2TS 190CH Right side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 837$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.25$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.472 W/kg

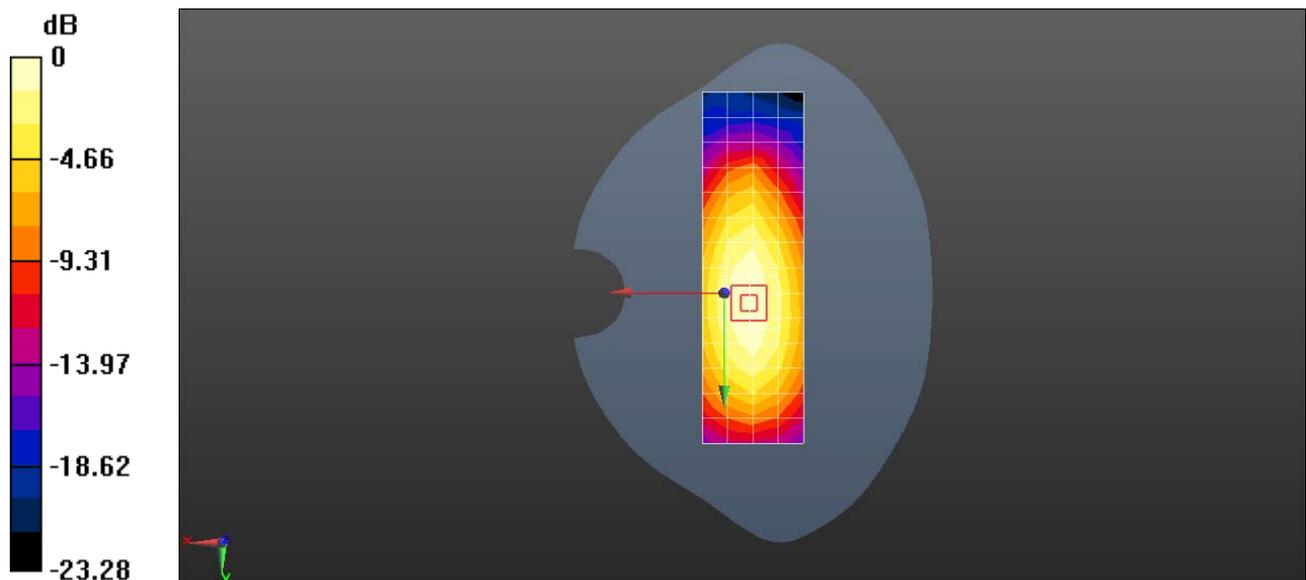
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 20.06 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.549 W/kg

**SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.252 W/kg**

Maximum value of SAR (measured) = 0.486 W/kg



0 dB = 0.472 W/kg = -3.26 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 GSM1900 512CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.371$  S/m;  $\epsilon_r = 39.449$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.159 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

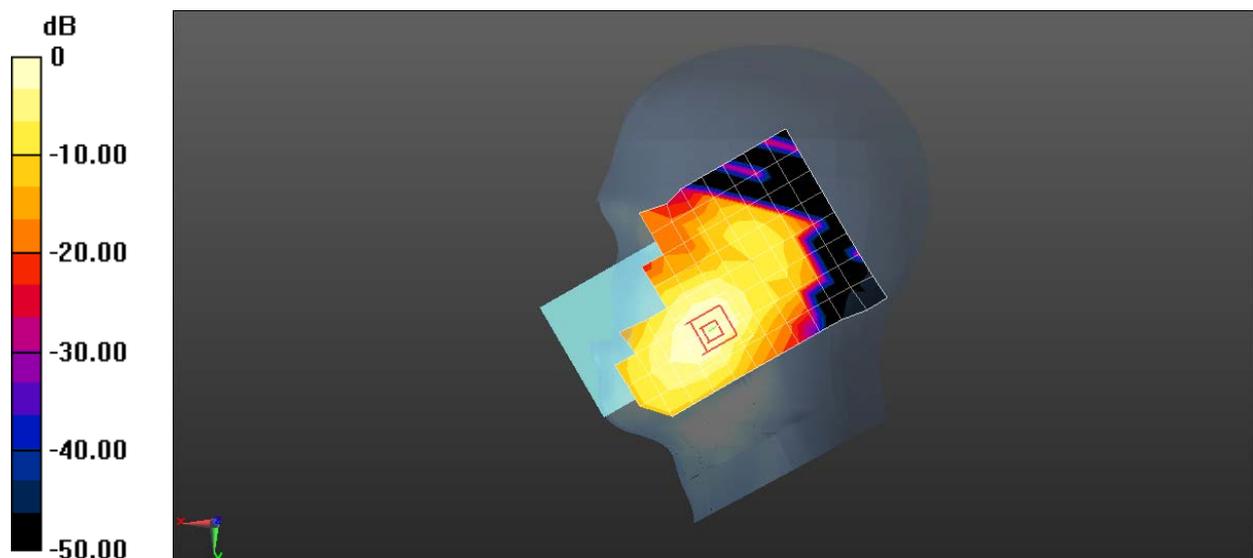
Reference Value = 3.314 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.178 W/kg

**SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.073 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.155 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM1900 661CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-1TS (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x15x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.148 W/kg

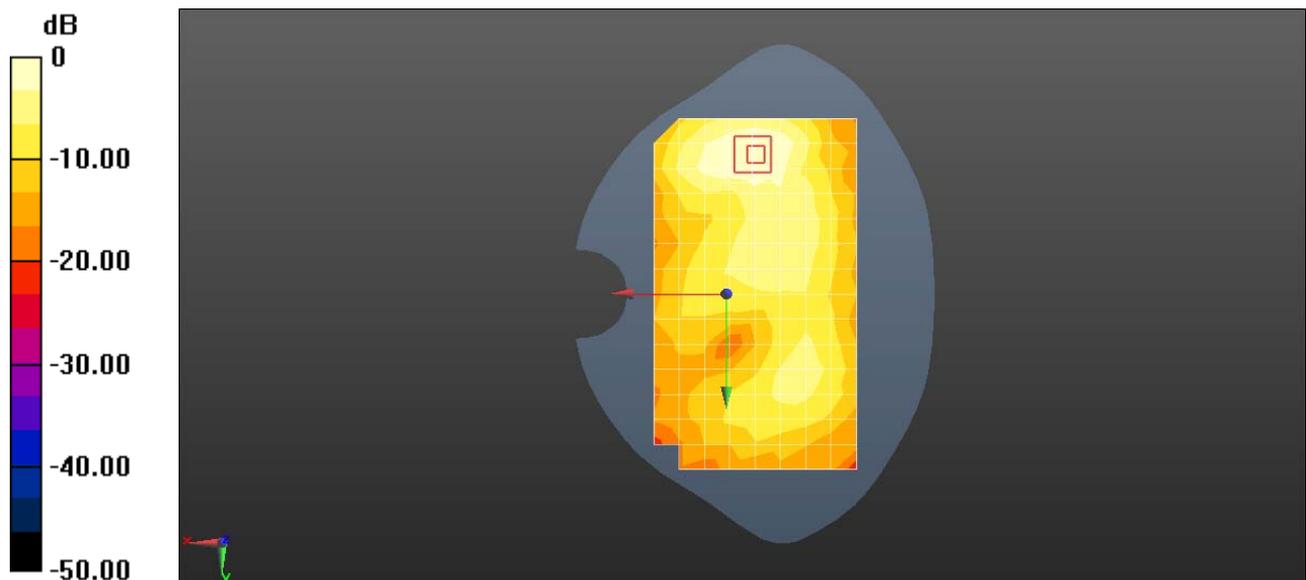
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.670 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.214 W/kg

**SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.071 W/kg**

Maximum value of SAR (measured) = 0.181 W/kg



0 dB = 0.148 W/kg = -8.30 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM1900 GPRS 2TS 661CH Bottom side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.833 W/kg

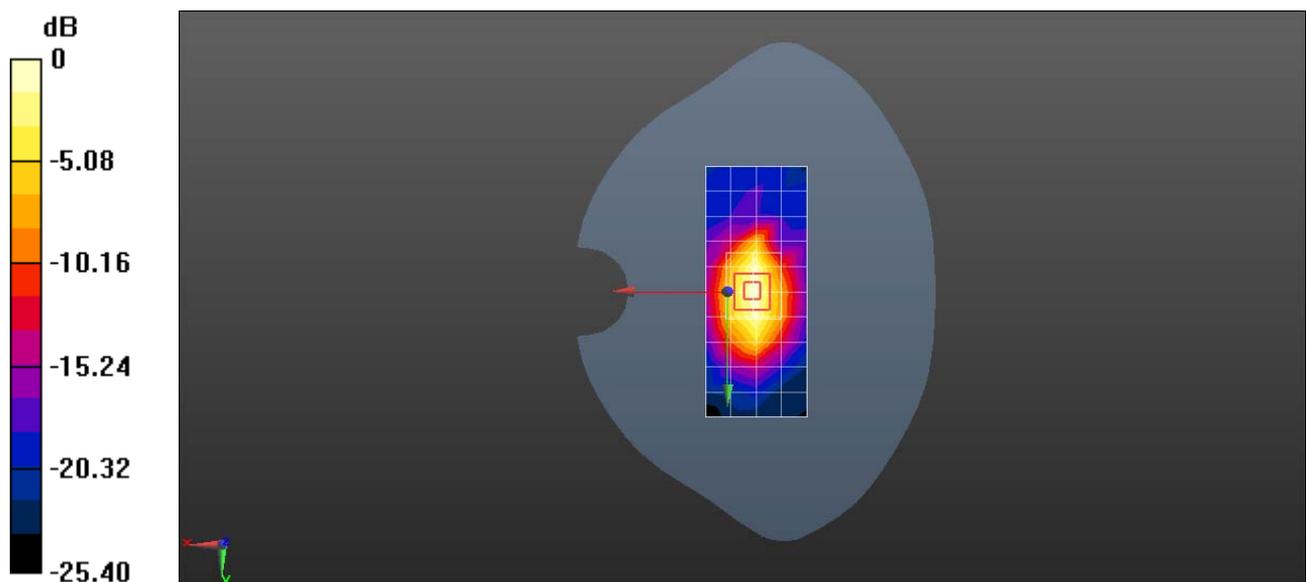
**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 20.04 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.04 W/kg

**SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.304 W/kg**

Maximum value of SAR (measured) = 0.872 W/kg



0 dB = 0.833 W/kg = -0.79 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 GSM1900 GPRS 2TS 661CH Bottom side 0mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1880 MHz; Duty Cycle: 1:4.10015

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.636 W/kg

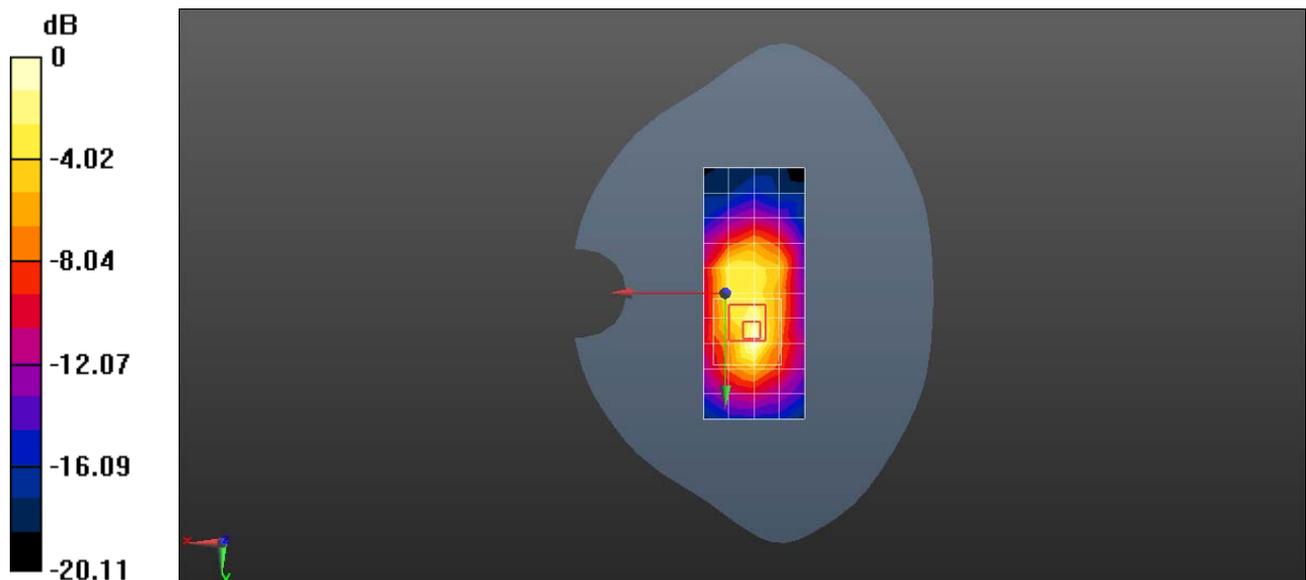
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.91 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.736 W/kg

**SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.135 W/kg**

Maximum value of SAR (measured) = 0.610 W/kg



0 dB = 0.636 W/kg = -1.97 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band II 9262CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1852.4$  MHz;  $\sigma = 1.372$  S/m;  $\epsilon_r = 39.45$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.423 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

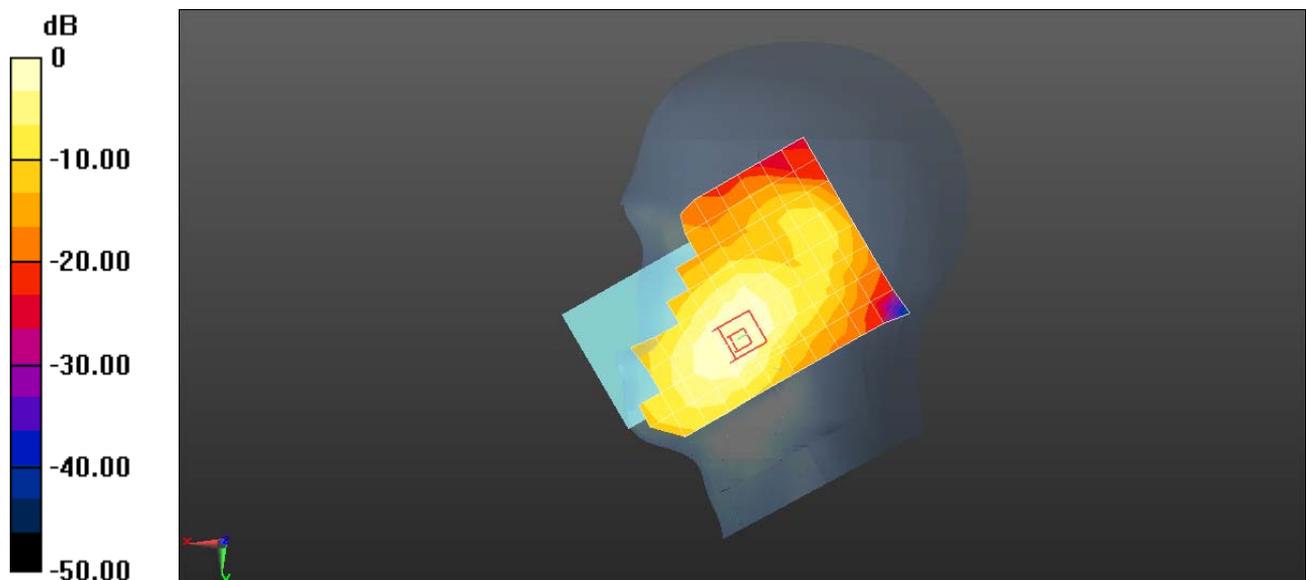
Reference Value = 7.395 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.515 W/kg

**SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.216 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.445 W/kg



0 dB = 0.423 W/kg = -3.74 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 UMTS Band II 9400CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.138 W/kg

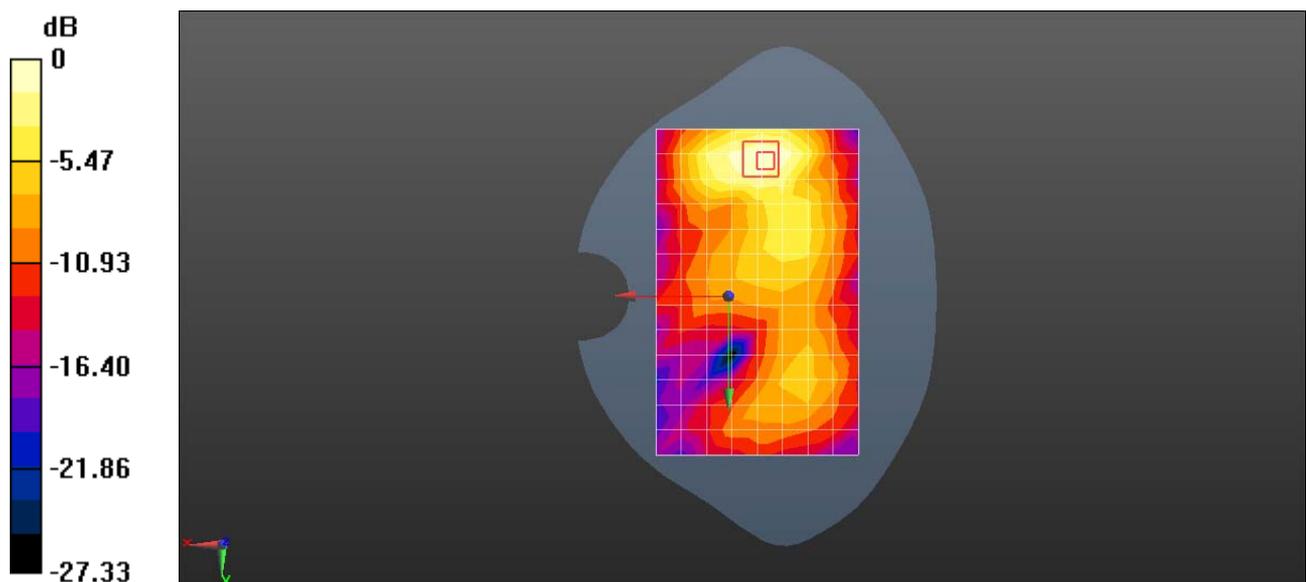
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 3.170 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.177 W/kg

**SAR(1 g) = 0.104 W/kg; SAR(10 g) = 0.058 W/kg**

Maximum value of SAR (measured) = 0.150 W/kg



0 dB = 0.138 W/kg = -8.60 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 UMTS Band II 9538CH Bottom side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.559$  S/m;  $\epsilon_r = 52.464$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.19 W/kg

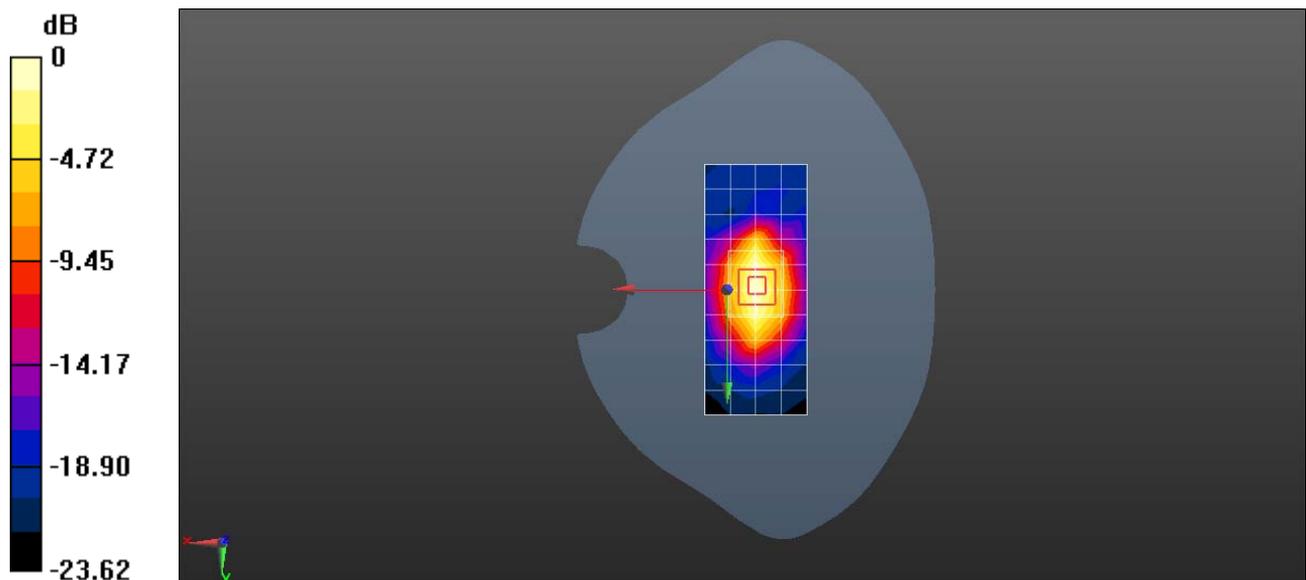
**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 26.63 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.61 W/kg

**SAR(1 g) = 0.942 W/kg; SAR(10 g) = 0.515 W/kg**

Maximum value of SAR (measured) = 1.15 W/kg



0 dB = 1.19 W/kg = 0.76 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 UMTS Band II 9538CH Back side 0mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1908$  MHz;  $\sigma = 1.514$  S/m;  $\epsilon_r = 52.21$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(4.99, 4.99, 4.99); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 5.17 W/kg

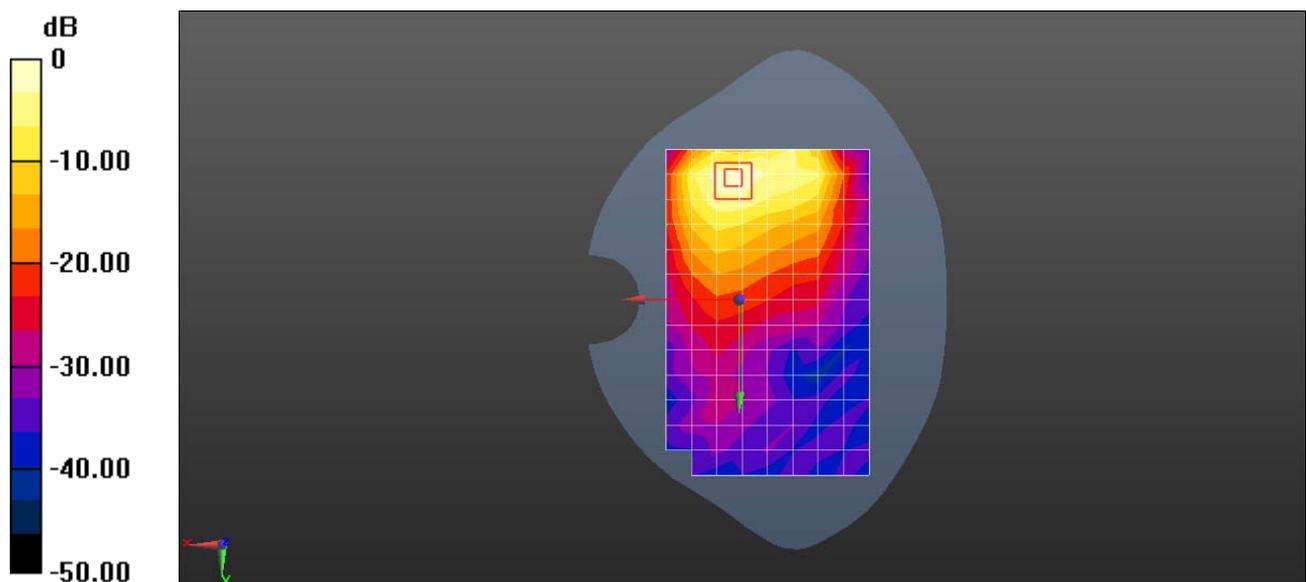
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 4.033 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 10.5 W/kg

**SAR(1 g) = 4.65 W/kg; SAR(10 g) = 1.97 W/kg**

Maximum value of SAR (measured) = 6.15 W/kg



0 dB = 5.17 W/kg = 7.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band IV 1513CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.35$  S/m;  $\epsilon_r = 39.589$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(8.3, 8.3, 8.3); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.551 W/kg

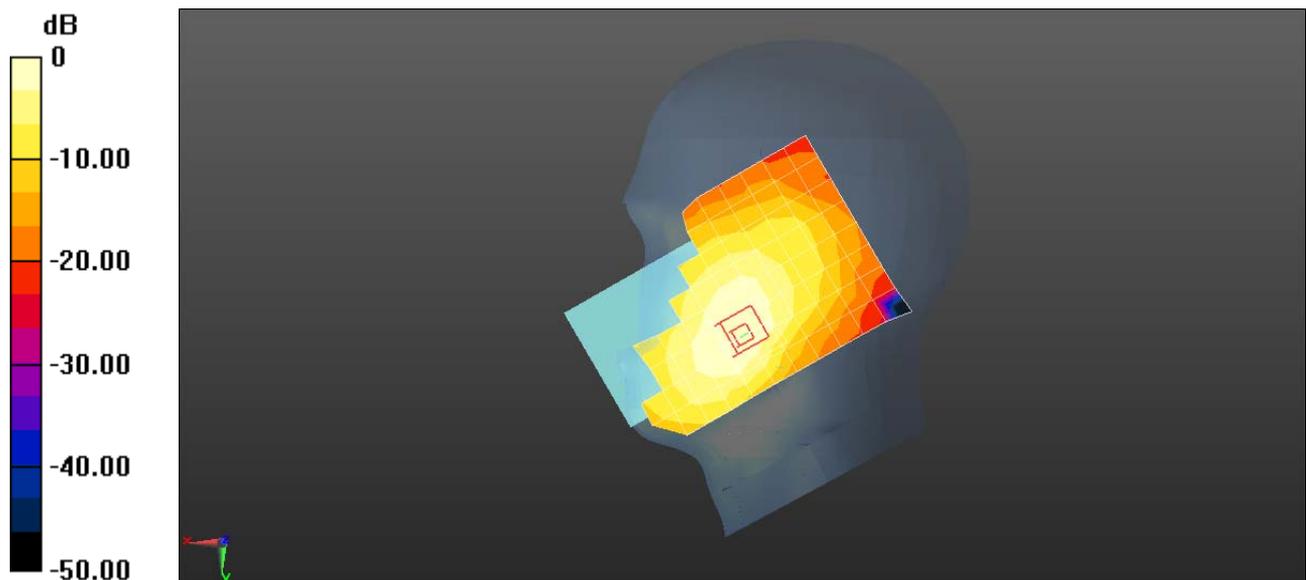
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 6.364 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.677 W/kg

**SAR(1 g) = 0.464 W/kg; SAR(10 g) = 0.305 W/kg**

Maximum value of SAR (measured) = 0.604 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band IV 1413CH Front side 15mm-Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.765$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.8, 7.8, 7.8); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.340 W/kg

**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.718 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.408 W/kg

**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.183 W/kg**

Maximum value of SAR (measured) = 0.357 W/kg

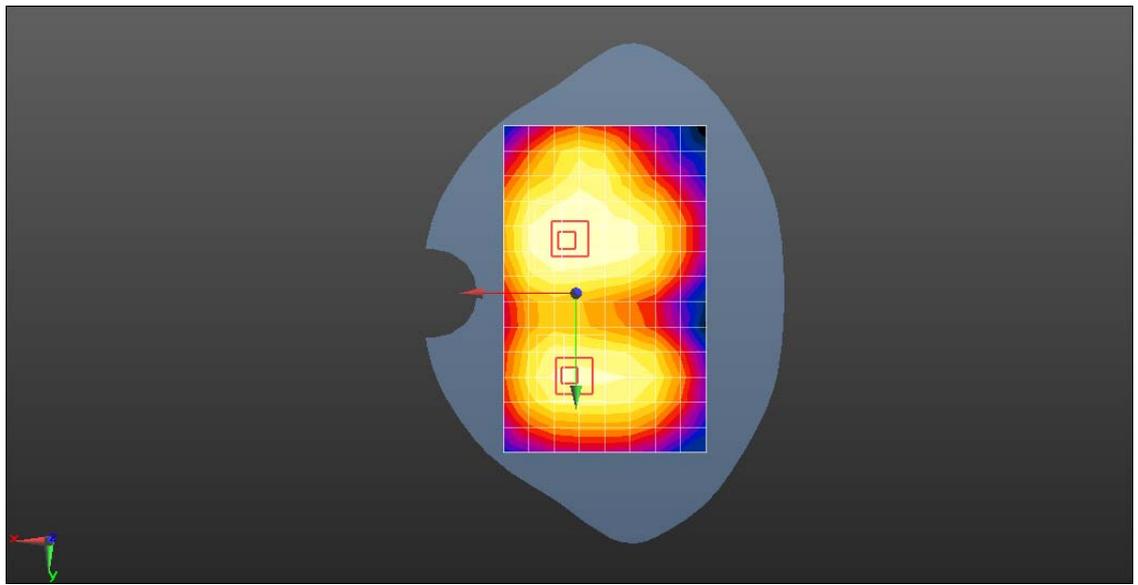
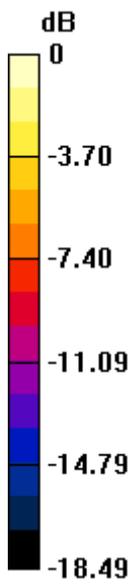
**Configuration/Body/Zoom Scan (6x6x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.718 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.329 W/kg

**SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.144 W/kg**

Maximum value of SAR (measured) = 0.287 W/kg



0 dB = 0.340 W/kg = -4.69 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 UMTS Band IV 1413CH Back side 10mm-Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1733$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.765$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.8, 7.8, 7.8); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.471 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.782 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.571 W/kg

**SAR(1 g) = 0.377 W/kg; SAR(10 g) = 0.242 W/kg**

Maximum value of SAR (measured) = 0.489 W/kg

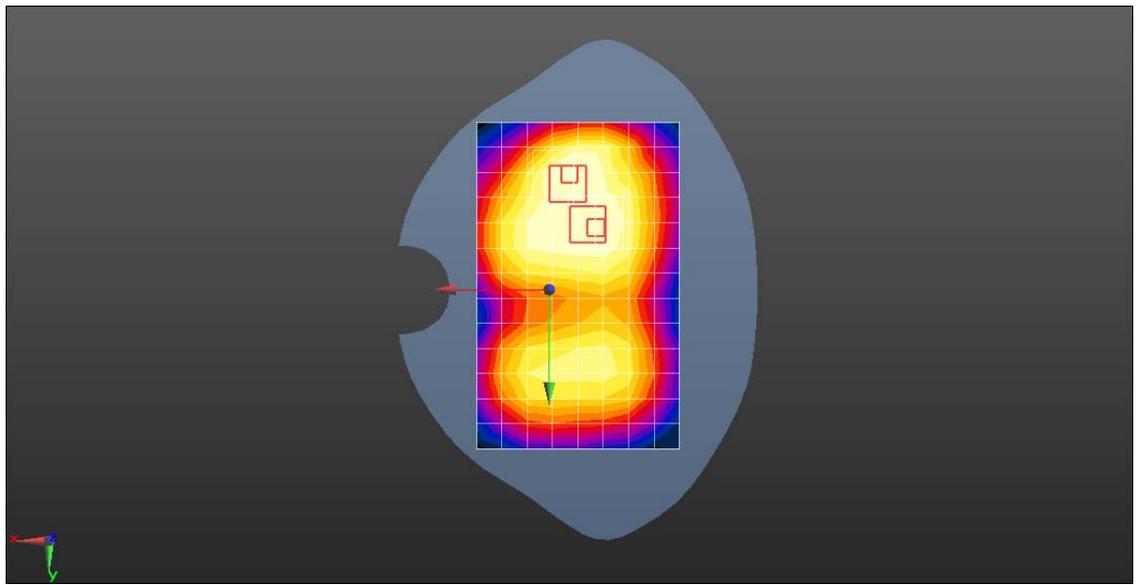
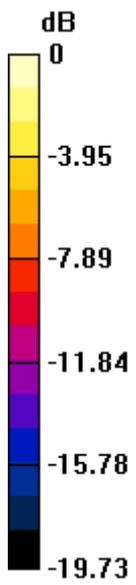
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.782 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.531 W/kg

**SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.240 W/kg**

Maximum value of SAR (measured) = 0.462 W/kg



0 dB = 0.471 W/kg = -3.27 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band V 4233CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 847$  MHz;  $\sigma = 0.909$  S/m;  $\epsilon_r = 41.759$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.313 W/kg

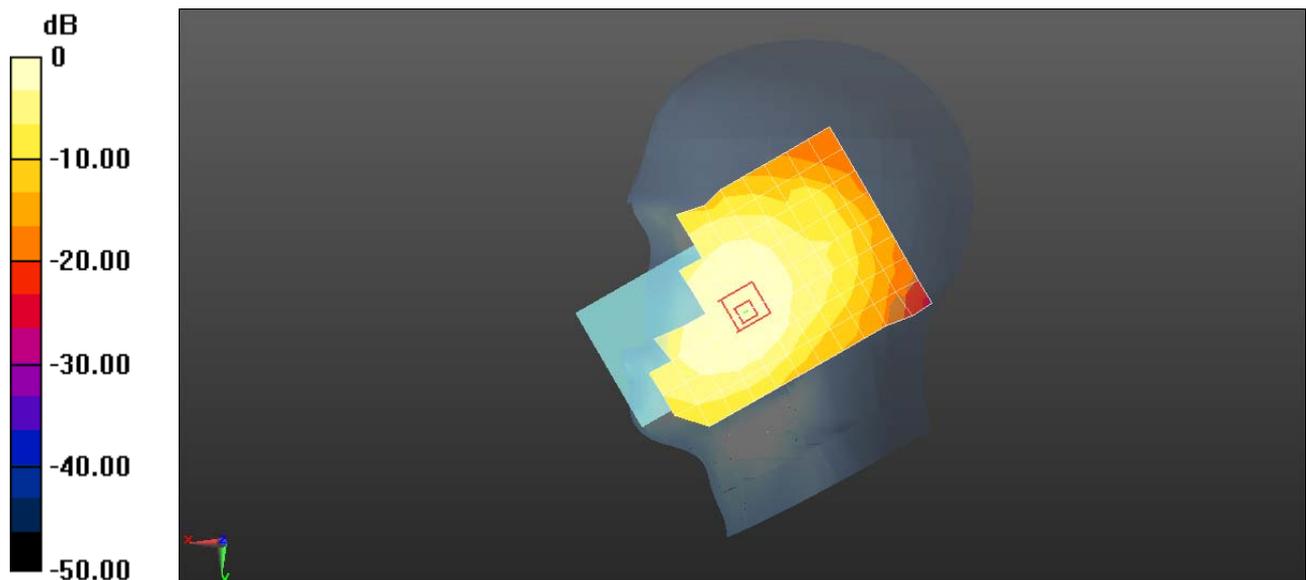
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.985 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.340 W/kg

**SAR(1 g) = 0.269 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.316 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band V 4182CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.307 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

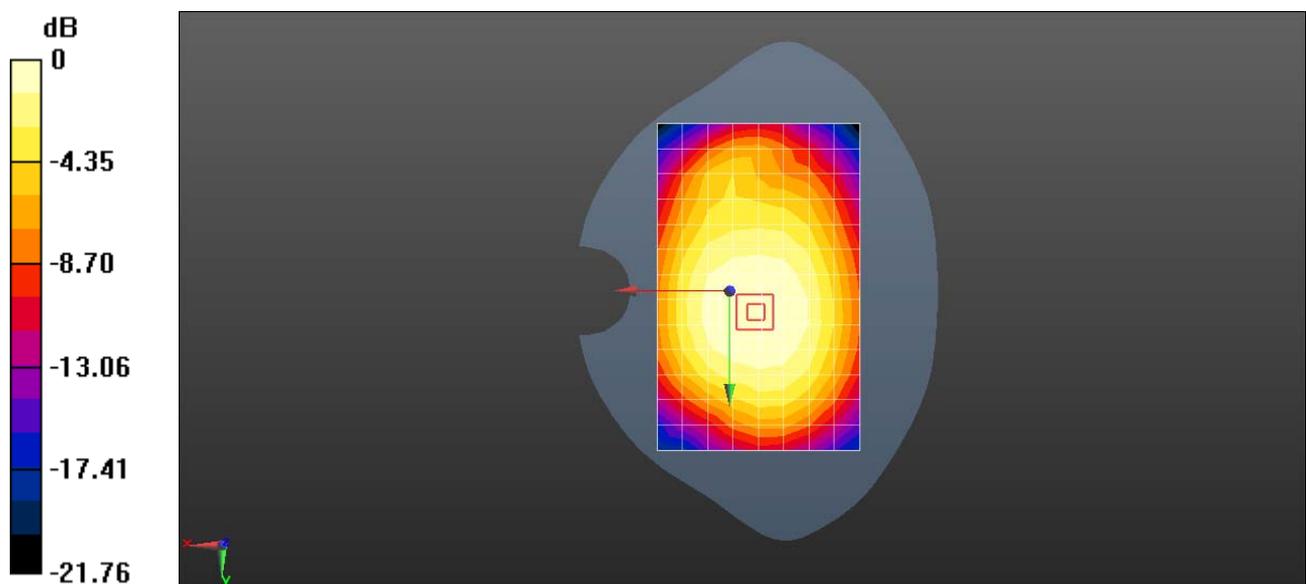
Reference Value = 16.39 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.347 W/kg

**SAR(1 g) = 0.262 W/kg; SAR(10 g) = 0.201 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.318 W/kg



0 dB = 0.307 W/kg = -5.13 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 UMTS Band V 4182CH Right side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, HW-UMTS-FDD(WCDMA) (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.4$  MHz;  $\sigma = 0.952$  S/m;  $\epsilon_r = 54.253$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.310 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

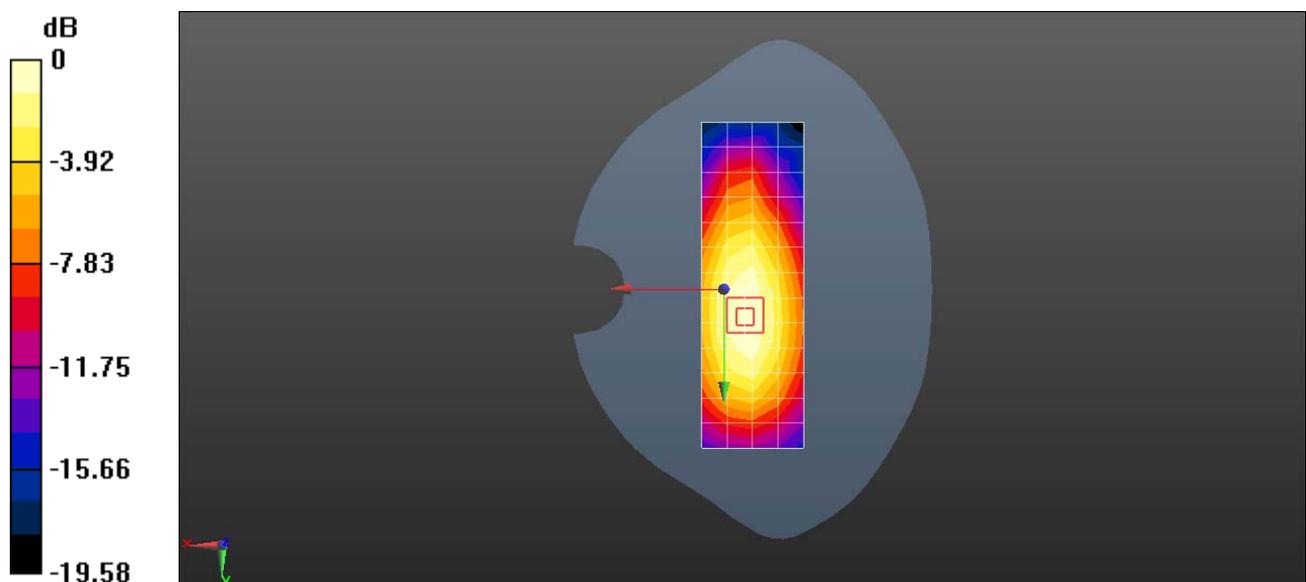
Reference Value = 15.58 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.369 W/kg

**SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.168 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.327 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18700CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.373$  S/m;  $\epsilon_r = 39.446$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.73, 7.73, 7.73); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.520 W/kg

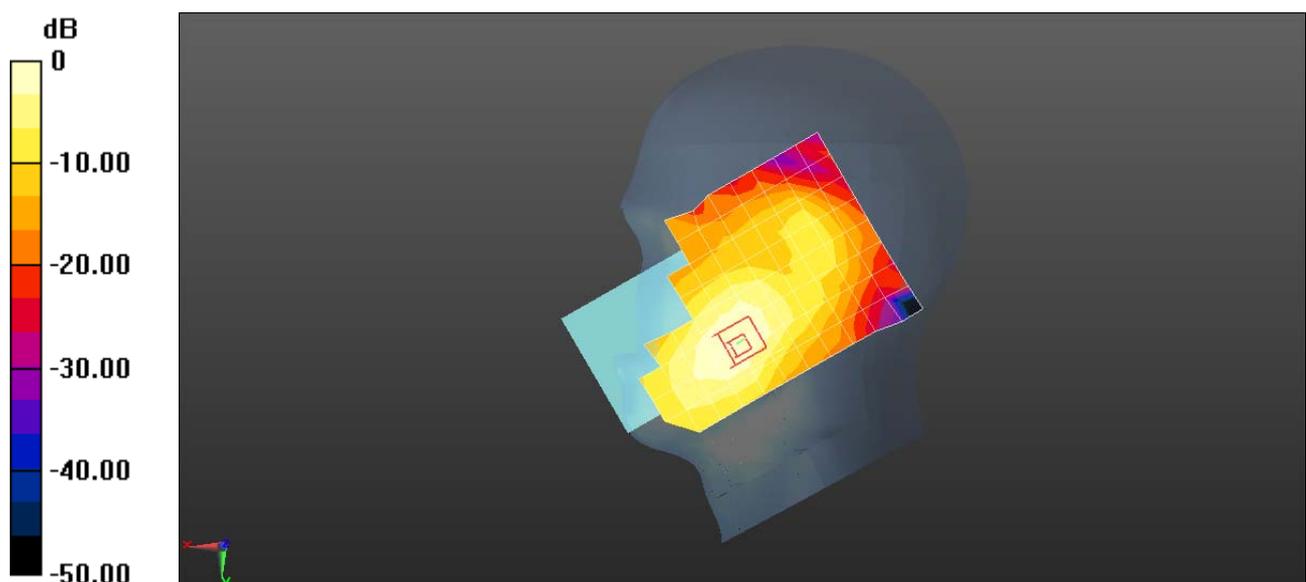
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.271 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.593 W/kg

**SAR(1 g) = 0.392 W/kg; SAR(10 g) = 0.250 W/kg**

Maximum value of SAR (measured) = 0.511 W/kg



0 dB = 0.520 W/kg = -2.84 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18900CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.452 W/kg

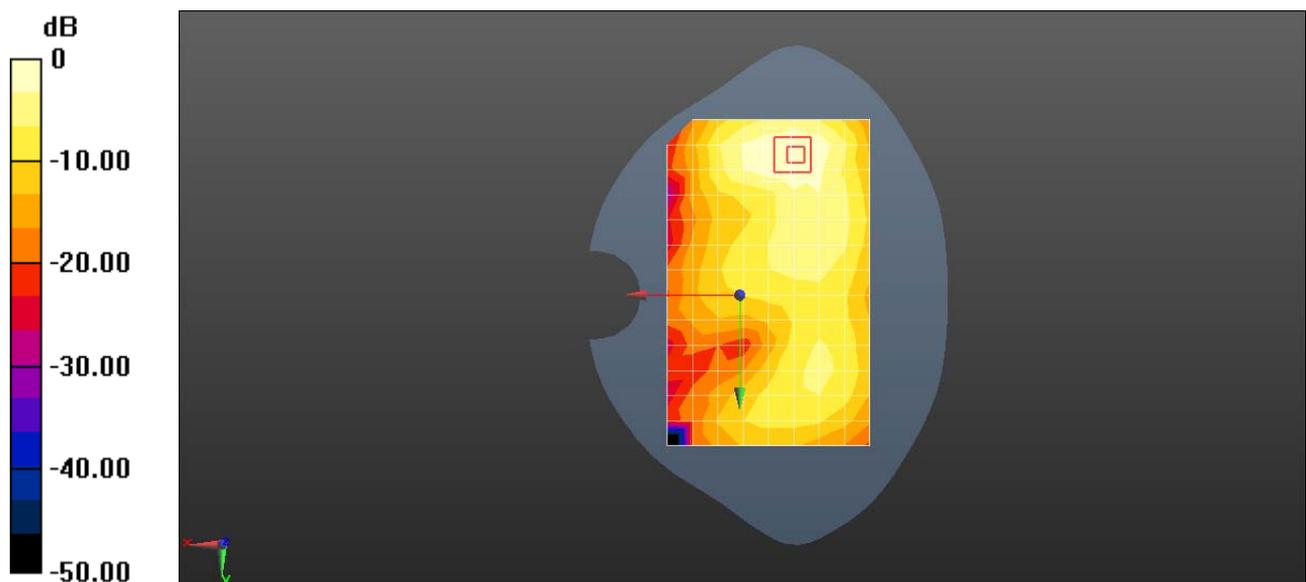
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 5.305 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.661 W/kg

**SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.214 W/kg**

Maximum value of SAR (measured) = 0.554 W/kg



0 dB = 0.452 W/kg = -3.45 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band II 20M QPSK 1RB 50 offset 18700CH Bottom side 10mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1860$  MHz;  $\sigma = 1.527$  S/m;  $\epsilon_r = 52.517$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.21 W/kg

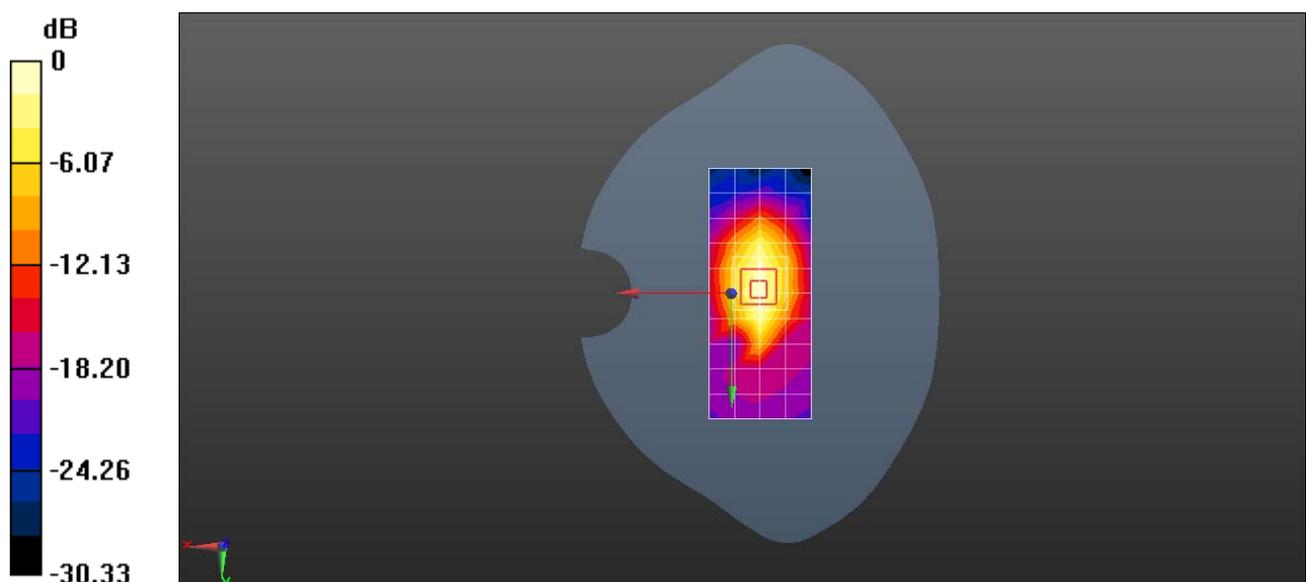
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 24.36 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 1.46 W/kg

**SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.423 W/kg**

Maximum value of SAR (measured) = 1.20 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band II 20M QPSK 50RB 0 offset 18900CH Bottom side 0mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.54$  S/m;  $\epsilon_r = 52.486$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.5, 7.5, 7.5); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.08 W/kg

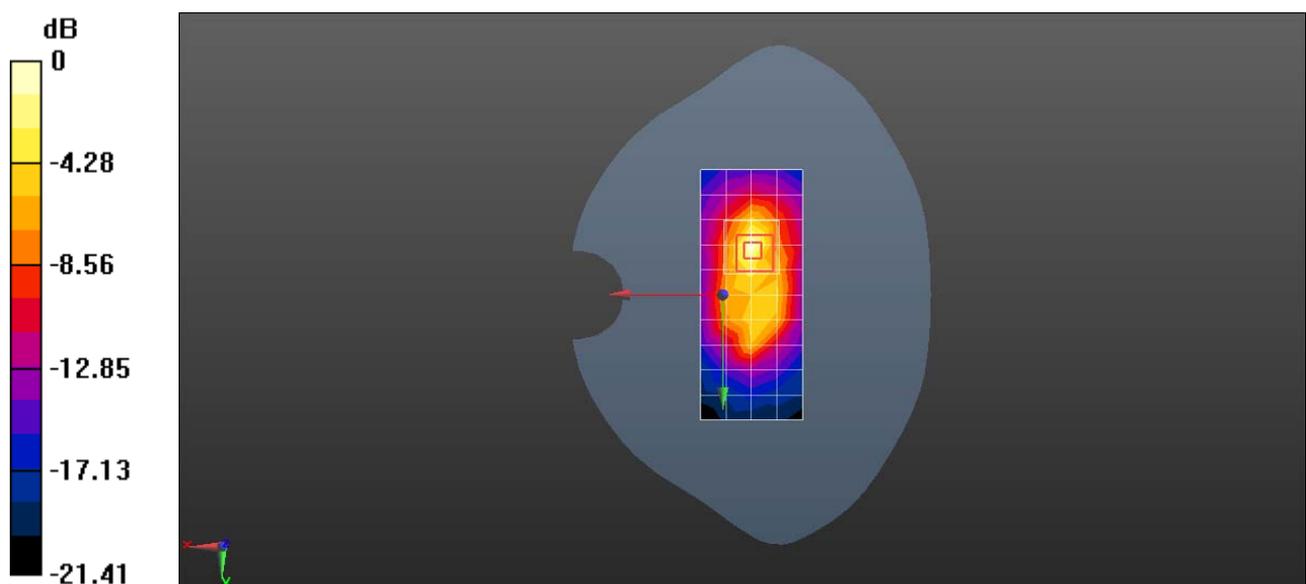
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 9.140 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.434 W/kg; SAR(10 g) = 0.187 W/kg**

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band IV 20M QPSK 1RB 50 offset 20300CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1745$  MHz;  $\sigma = 1.362$  S/m;  $\epsilon_r = 38.729$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(8.37, 8.37, 8.37); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (8x13x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.906 W/kg

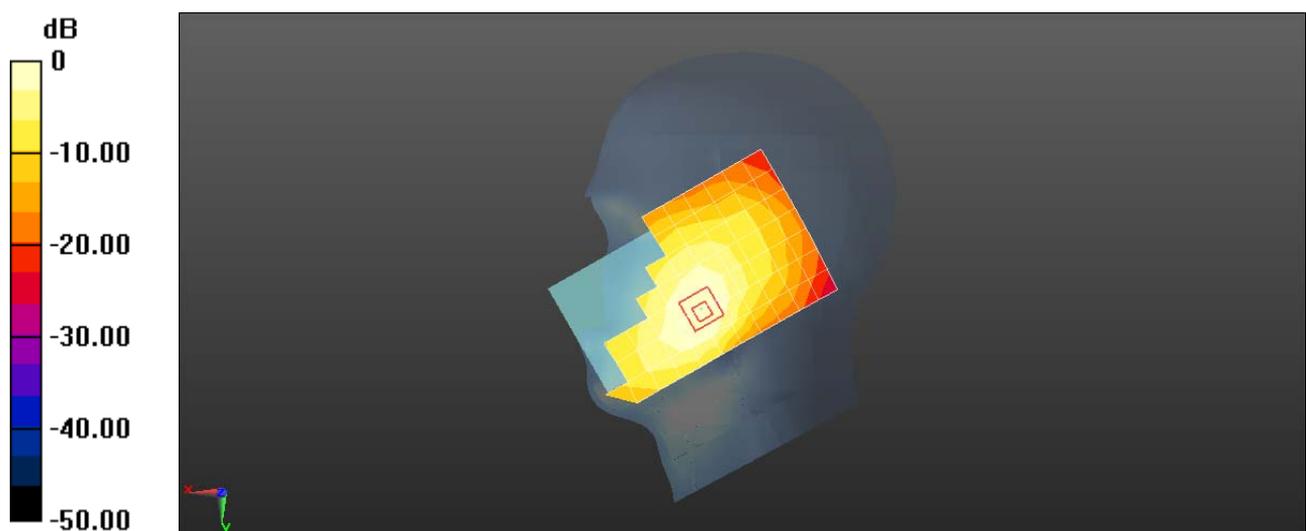
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 7.663 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.03 W/kg

**SAR(1 g) = 0.705 W/kg; SAR(10 g) = 0.460 W/kg**

Maximum value of SAR (measured) = 0.915 W/kg



0 dB = 0.906 W/kg = -0.43 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 LTE Band IV 20M QPSK 1RB 50 offset 20050CH Back Side 15mm-Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.678$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm  
Maximum value of SAR (measured) = 0.301 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.61 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.388 W/kg

**SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.183 W/kg**

Maximum value of SAR (measured) = 0.306 W/kg

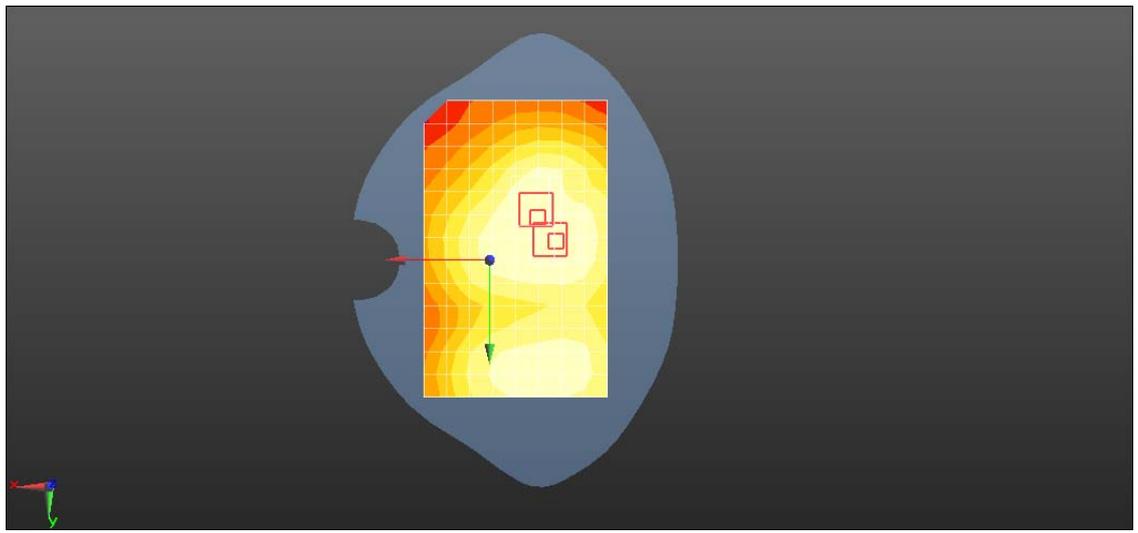
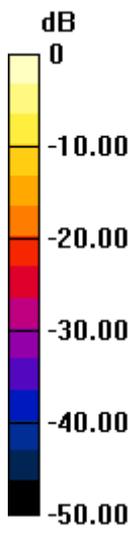
**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 13.61 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.355 W/kg

**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.155 W/kg**

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.301 W/kg = -5.21 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## **MHA-L29 LTE Band IV 20M QPSK 1RB 50 offset 20050CH Back Side 10mm-Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 1720 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1720$  MHz;  $\sigma = 1.411$  S/m;  $\epsilon_r = 51.678$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

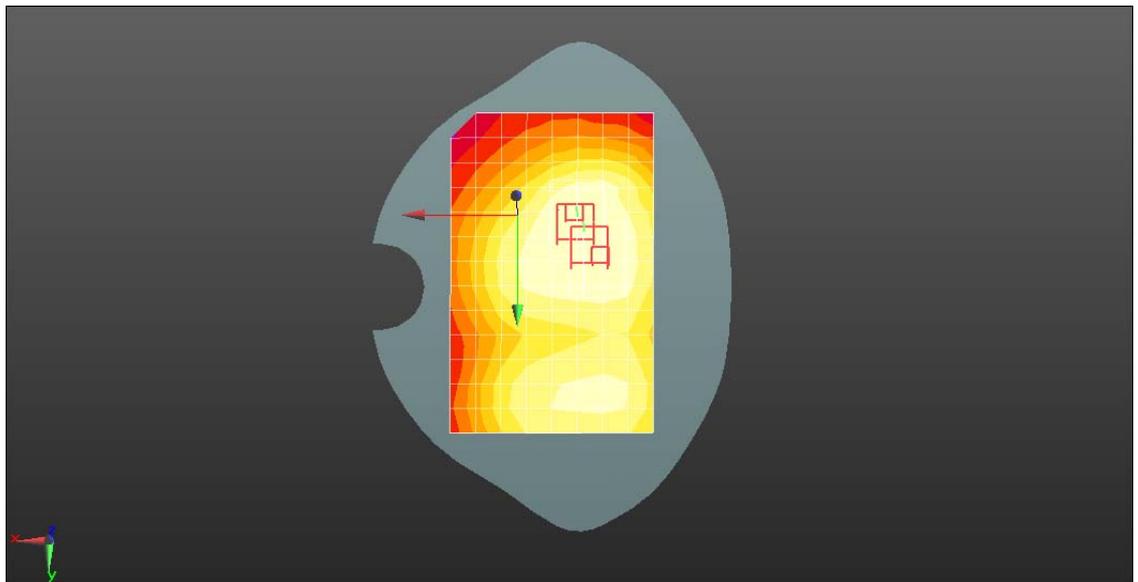
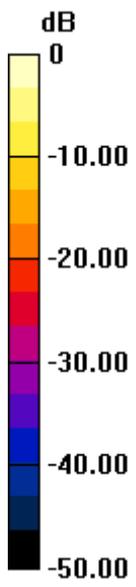
DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(5.22, 5.22, 5.22); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 0.516 W/kg

**Configuration/Body/Zoom Scan (5x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.87 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.641 W/kg  
**SAR(1 g) = 0.447 W/kg; SAR(10 g) = 0.291 W/kg**

**Configuration/Body/Zoom Scan (5x6x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm, dz=5mm  
Reference Value = 15.87 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.600 W/kg  
**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.292 W/kg**  
Maximum value of SAR (measured) = 0.478 W/kg



0 dB = 0.516 W/kg = -2.87 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.904$  S/m;  $\epsilon_r = 41.826$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.347 W/kg

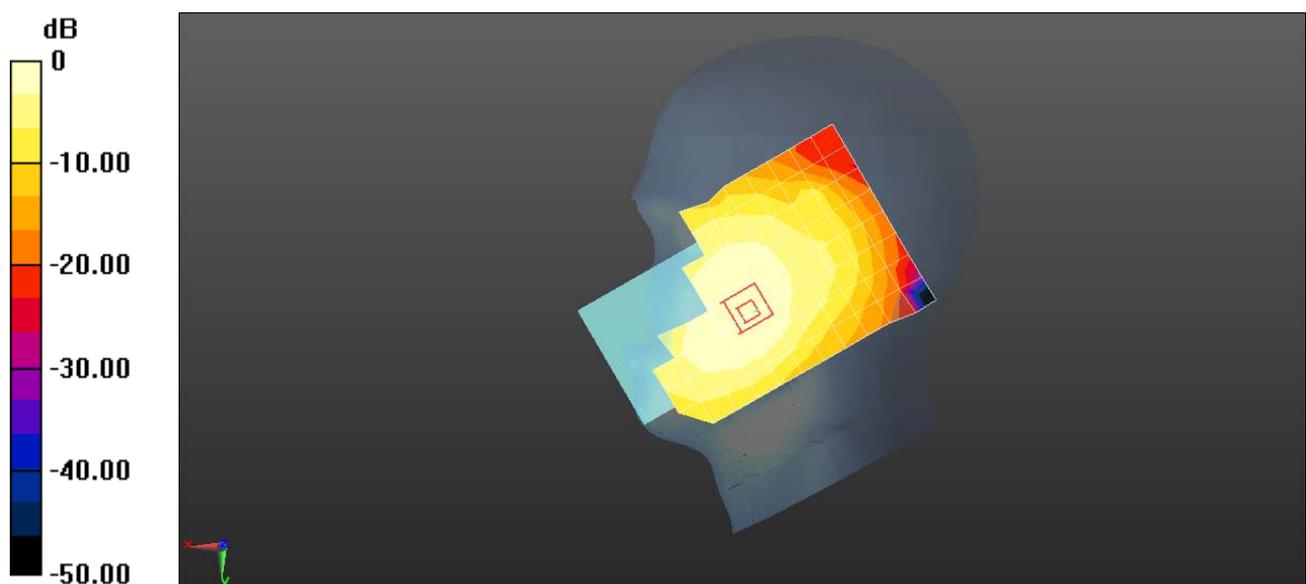
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 8.102 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.366 W/kg

**SAR(1 g) = 0.290 W/kg; SAR(10 g) = 0.226 W/kg**

Maximum value of SAR (measured) = 0.338 W/kg



0 dB = 0.347 W/kg = -4.60 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back side 15mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844 \text{ MHz}$ ;  $\sigma = 0.955 \text{ S/m}$ ;  $\epsilon_r = 54.218$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.366 W/kg

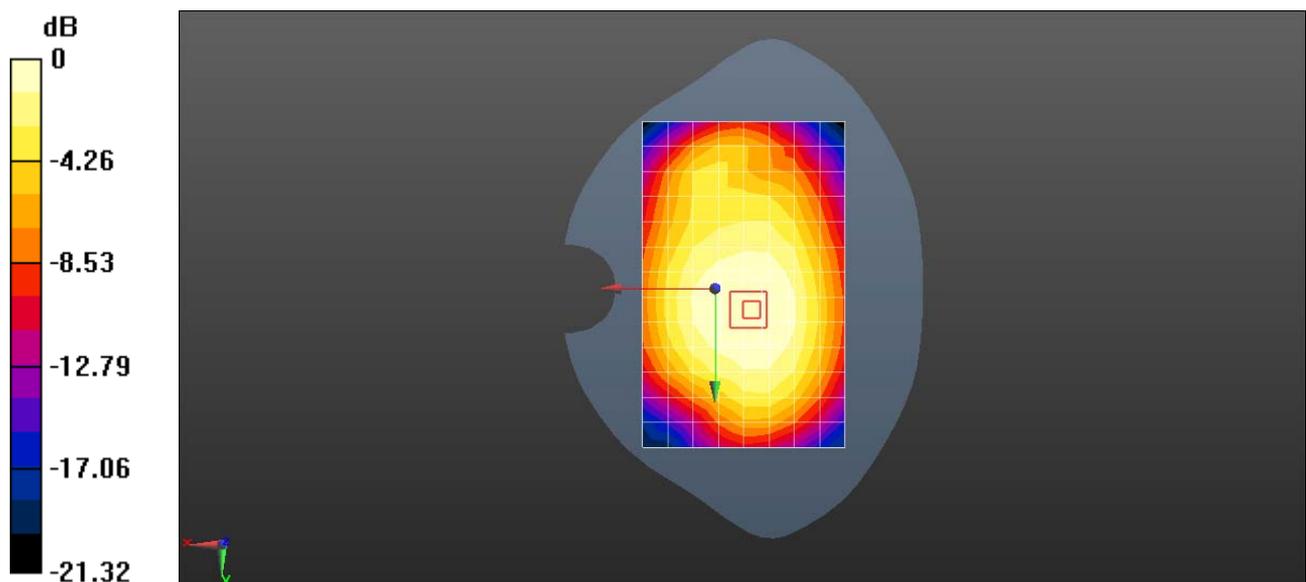
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 17.76 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 0.410 W/kg

**SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.237 W/kg**

Maximum value of SAR (measured) = 0.373 W/kg



0 dB = 0.366 W/kg = -4.37 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band V 10M QPSK 1RB 25 offset 20600CH Right side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 844$  MHz;  $\sigma = 0.955$  S/m;  $\epsilon_r = 54.218$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.36, 9.36, 9.36); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.373 W/kg

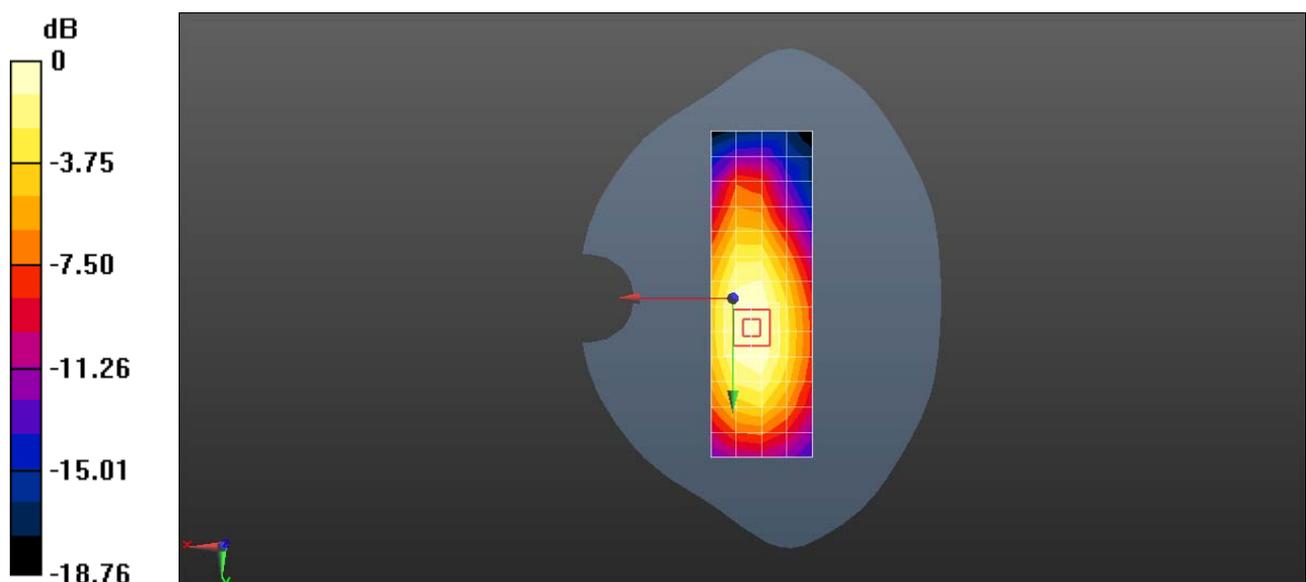
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.80 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.461 W/kg

**SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.212 W/kg**

Maximum value of SAR (measured) = 0.407 W/kg



0 dB = 0.373 W/kg = -4.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band VII 20M QPSK 1RB 50 offset 20850CH Left touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 1.893$  S/m;  $\epsilon_r = 38.397$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.44, 7.44, 7.44); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.452 W/kg

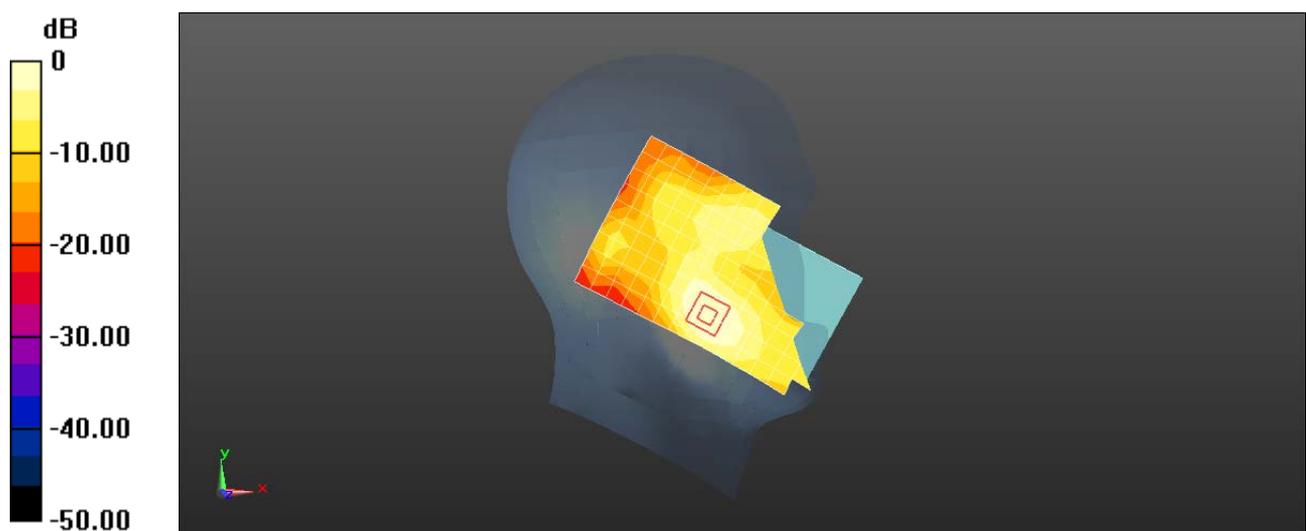
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.594 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.580 W/kg

**SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.186 W/kg**

Maximum value of SAR (measured) = 0.495 W/kg



0 dB = 0.452 W/kg = -3.45 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band VII 20M QPSK 1RB 50 offset 20850CH Front side 15mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.095$  S/m;  $\epsilon_r = 50.728$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(7.21, 7.21, 7.21); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM4; Type: SAM; Serial: TP-1620
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x18x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.416 W/kg

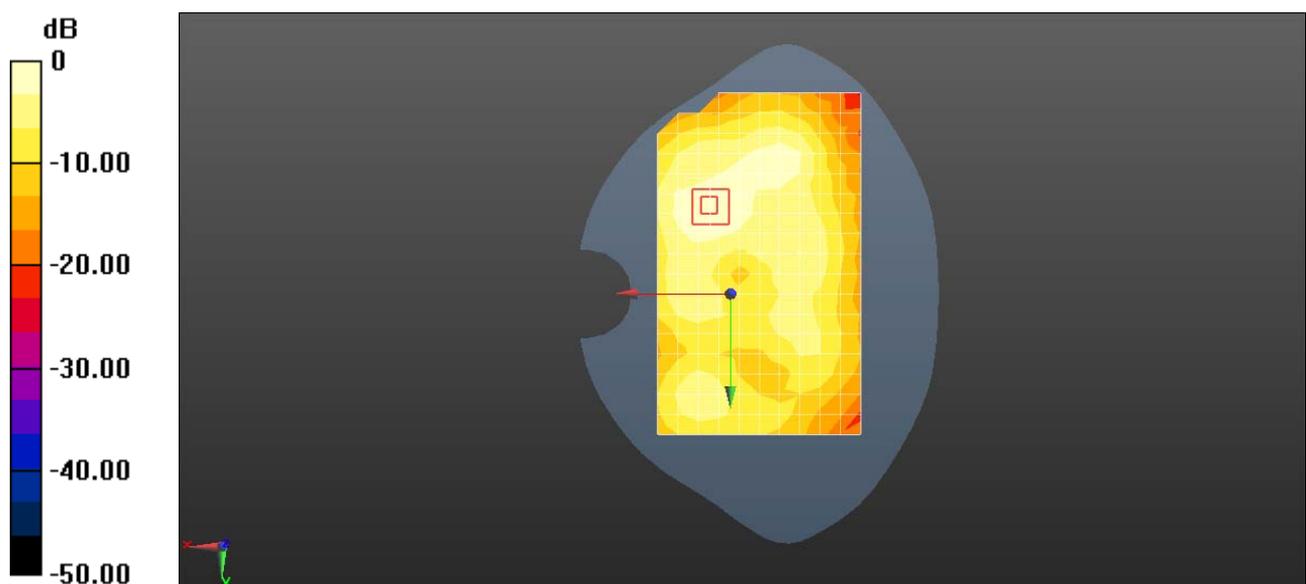
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.448 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.568 W/kg

**SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.166 W/kg**

Maximum value of SAR (measured) = 0.471 W/kg



0 dB = 0.416 W/kg = -3.81 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MHA-L29 LTE Band VII 20M QPSK 1RB 50 offset 20850CH Front side 10mm  
-Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2510 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 2510$  MHz;  $\sigma = 2.043$  S/m;  $\epsilon_r = 50.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.43, 7.43, 7.43); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.928 W/kg

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

Reference Value = 7.102 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.28 W/kg

**SAR(1 g) = 0.630 W/kg; SAR(10 g) = 0.295 W/kg**

Maximum value of SAR (measured) = 1.04 W/kg

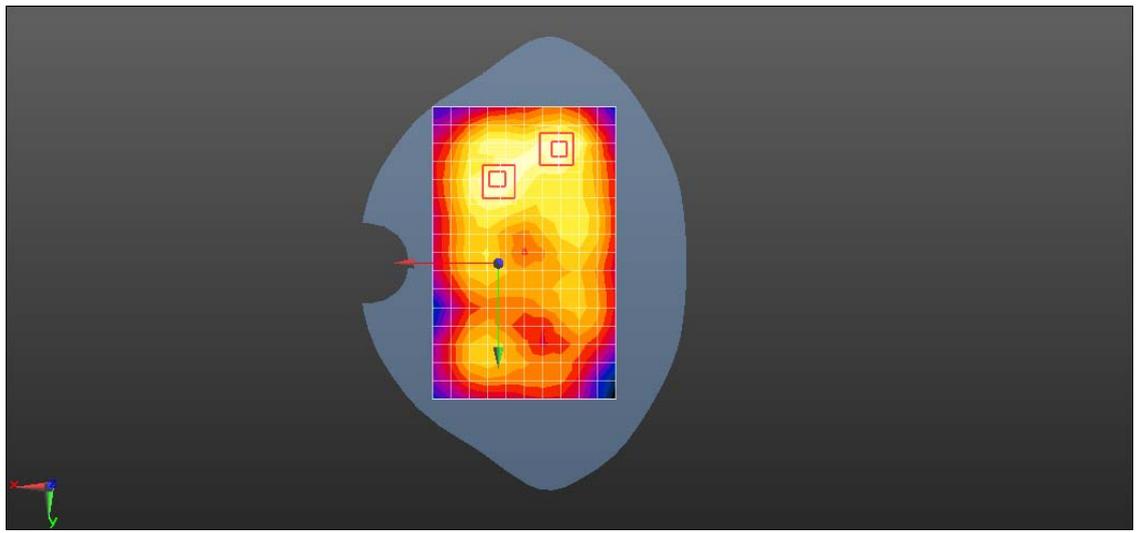
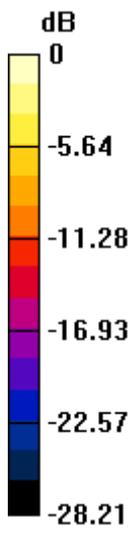
**Configuration/Body/Zoom Scan (7x7x7)/Cube 1:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 7.102 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.22 W/kg

**SAR(1 g) = 0.679 W/kg; SAR(10 g) = 0.348 W/kg**

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 0.928 W/kg = -0.32 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 1RB 25 offset 23060CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 704 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 704$  MHz;  $\sigma = 0.908$  S/m;  $\epsilon_r = 42.526$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.93, 6.93, 6.93); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.290 W/kg

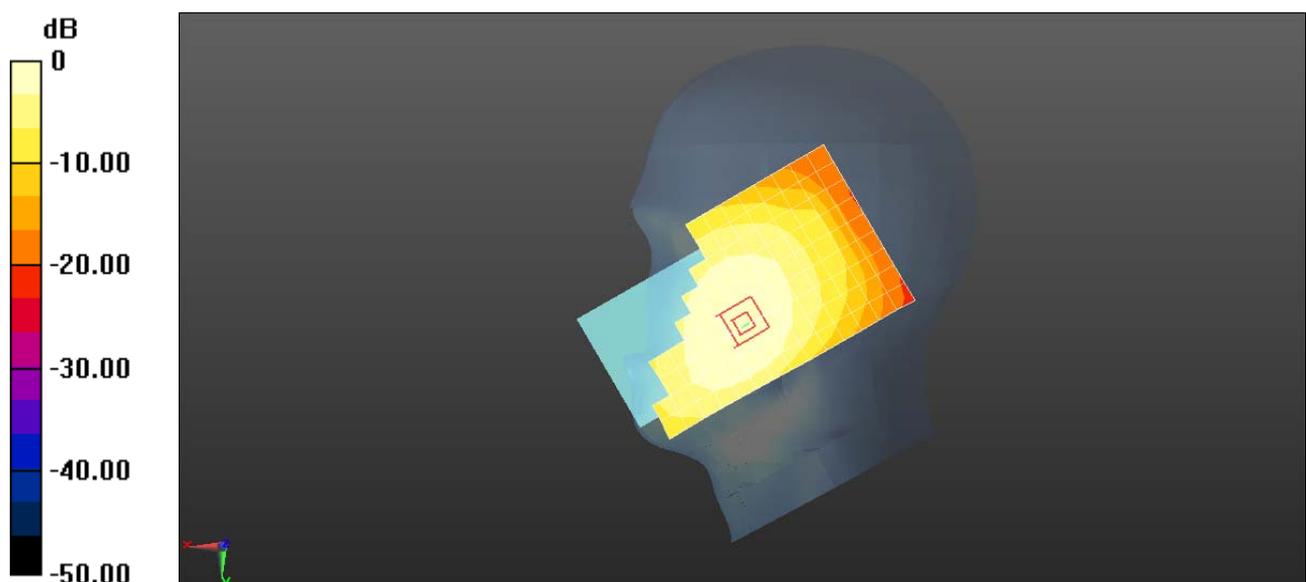
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 7.000 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.328 W/kg

**SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.209 W/kg**

Maximum value of SAR (measured) = 0.293 W/kg



0 dB = 0.290 W/kg = -5.38 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 25RB 13 offset 23130CH Back Side 15mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.174 W/kg

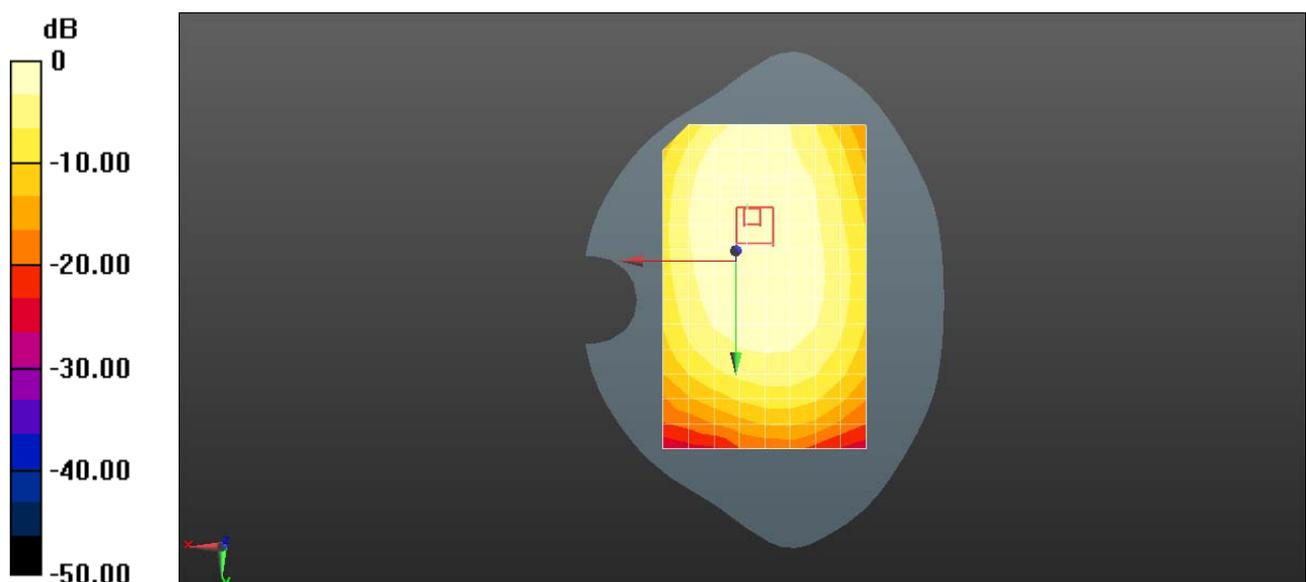
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 12.75 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.212 W/kg

**SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.125 W/kg**

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



0 dB = 0.174 W/kg = -7.59 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XII 10M QPSK 25RB 13 offset 23095CH Right Side 10mm-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.955$  S/m;  $\epsilon_r = 56.161$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (5x14x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.261 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

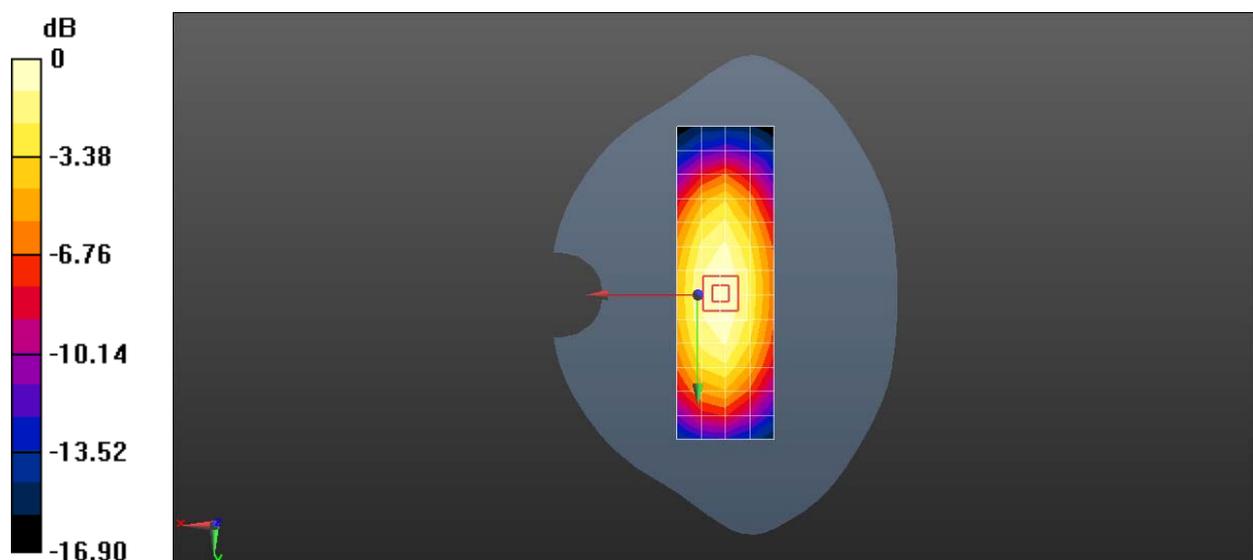
Reference Value = 17.16 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.160 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.266 W/kg



0 dB = 0.261 W/kg = -5.83 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XVII 10M QPSK 1RB 25 offset 23800CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 42.512$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.93, 6.93, 6.93); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

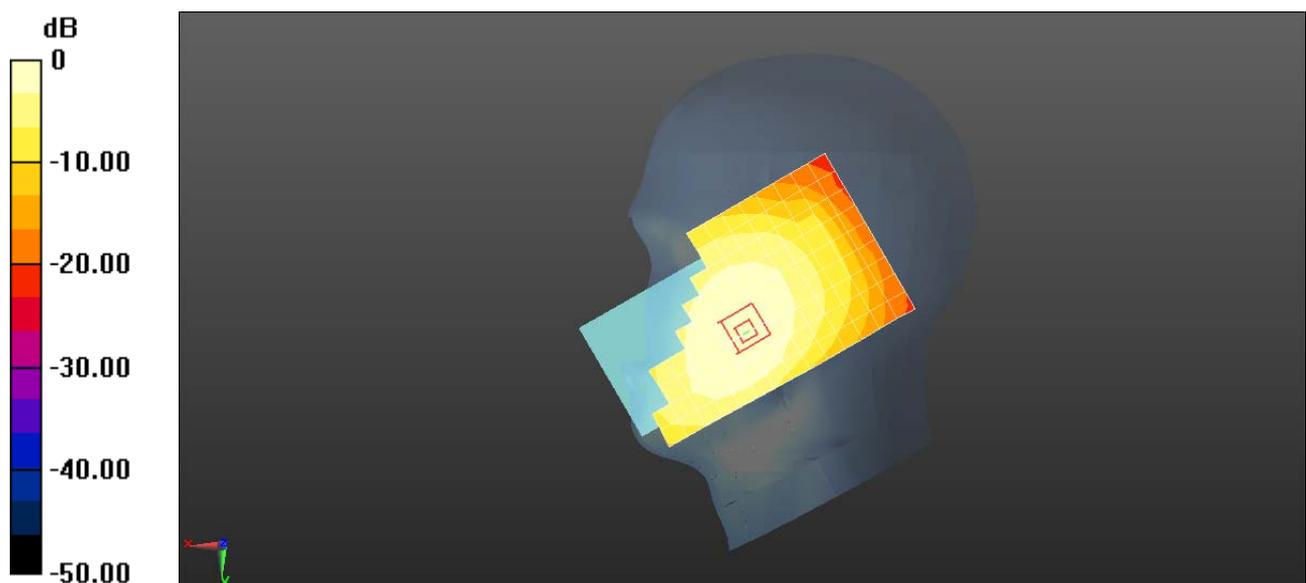
**Configuration/Head/Area Scan (10x17x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.232 W/kg

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

Reference Value = 6.521 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.262 W/kg

**SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.165 W/kg**



0 dB = 0.232 W/kg = -6.35 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XVII 10M QPSK 1RB 25 offset 23800CH Back Side 15mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.272 W/kg

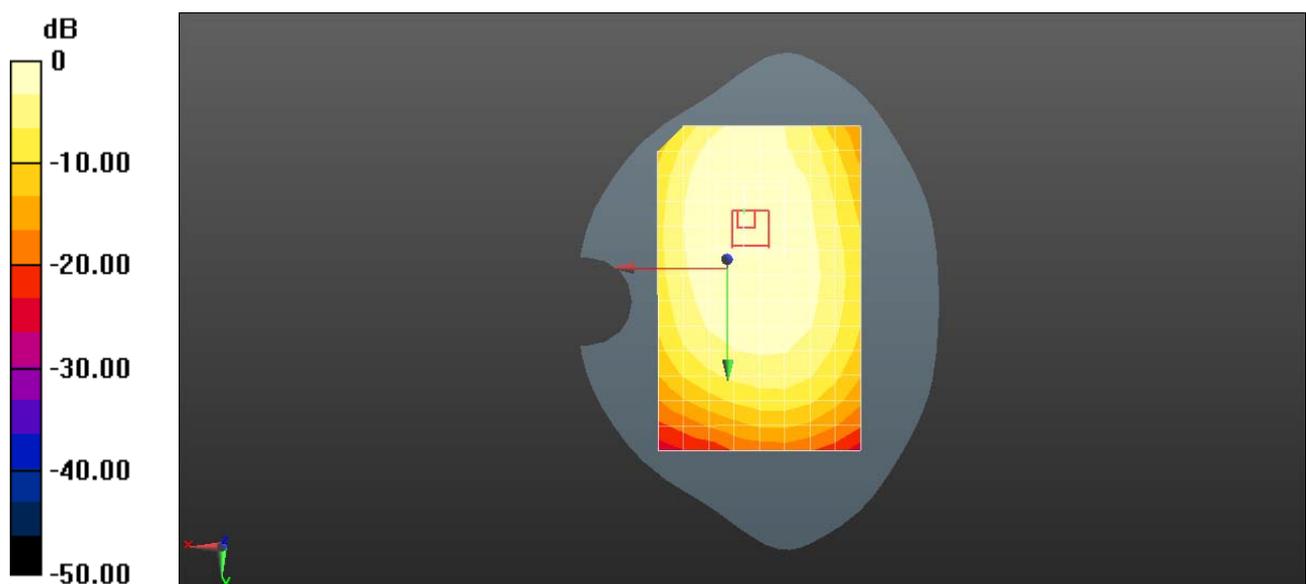
**Configuration/Body/Zoom Scan (6x6x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.95 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.330 W/kg

**SAR(1 g) = 0.254 W/kg; SAR(10 g) = 0.196 W/kg**

Maximum value of SAR (measured) = 0.279 W/kg



0 dB = 0.272 W/kg = -5.65 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MHA-L29 LTE Band XVII 10M QPSK 1RB 25 offset 23800CH Front Side 10mm-  
Main Antenna**

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 10MHz, QPSK/16-QAM) (0); Frequency:  
711 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 711$  MHz;  $\sigma = 0.956$  S/m;  $\epsilon_r = 56.154$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: ES3DV3 - SN3168; ConvF(6.45, 6.45, 6.45); Calibrated: 2016-9-27;
- ε Sensor-Surface: 3mm (Mechanical Surface Detection),  $z = 2.0, 32.0$
- ε Electronics: DAE4 Sn851; Calibrated: 2016-7-22
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.290 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 15.09 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.406 W/kg

**SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.140 W/kg**

Maximum value of SAR (measured) = 0.293 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 1:** Measurement grid: dx=8mm, dy=8mm,  
dz=5mm

Reference Value = 15.09 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.315 W/kg

**SAR(1 g) = 0.225 W/kg; SAR(10 g) = 0.164 W/kg**

Maximum value of SAR (measured) = 0.250 W/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26865CH Right touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR2**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 831.5$  MHz;  $\sigma = 0.901$  S/m;  $\epsilon_r = 41.897$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3736; ConvF(9.22, 9.22, 9.22); Calibrated: 2017-4-27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn852; Calibrated: 2017-4-27
- ε Phantom: SAM3; Type: SAM; Serial: TP-1597
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.275 W/kg

**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

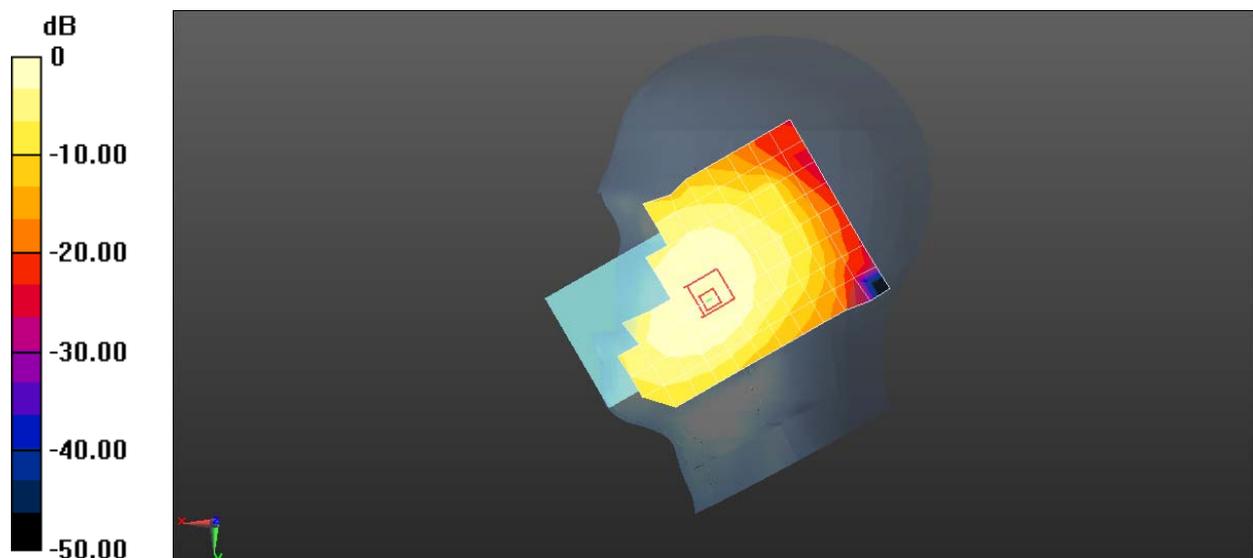
Reference Value = 6.943 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.298 W/kg

**SAR(1 g) = 0.235 W/kg; SAR(10 g) = 0.183 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.276 W/kg



0 dB = 0.275 W/kg = -5.61 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26965CH Back Side 15mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 841.5$  MHz;  $\sigma = 0.988$  S/m;  $\epsilon_r = 53.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(9.53, 9.53, 9.53); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.264 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

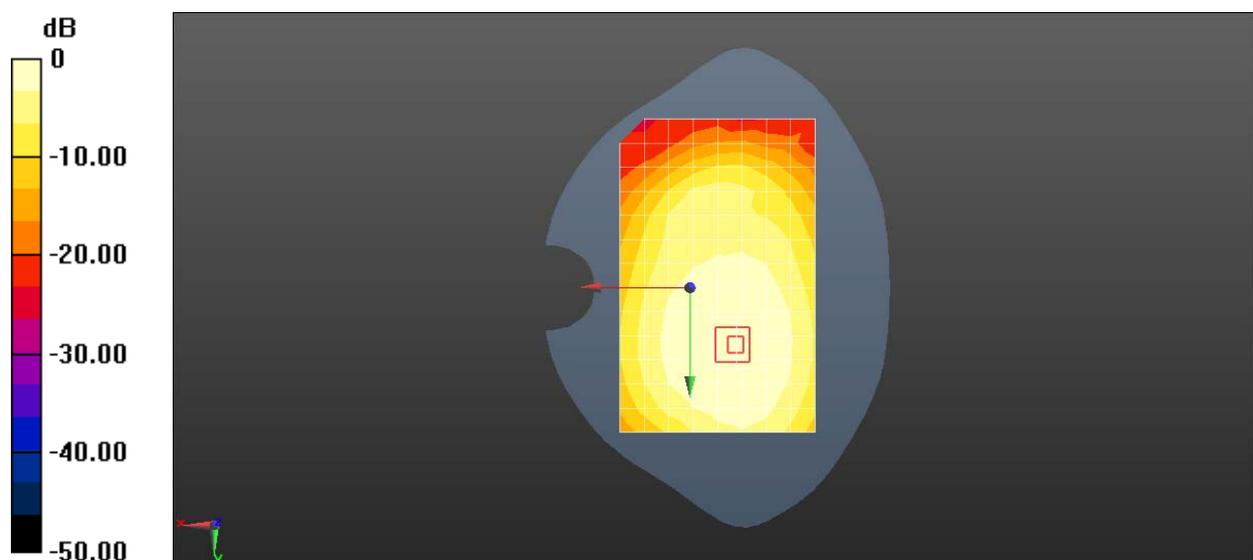
Reference Value = 12.56 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.298 W/kg

**SAR(1 g) = 0.215 W/kg; SAR(10 g) = 0.163 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.268 W/kg



0 dB = 0.264 W/kg = -5.78 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXVI 15M QPSK 1RB 38 offset 26965CH Back Side 10mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-FDD (SC-FDMA, 15MHz, QPSK/16-QAM) (0); Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 841.5$  MHz;  $\sigma = 0.988$  S/m;  $\epsilon_r = 53.027$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(9.53, 9.53, 9.53); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (9x14x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.300 W/kg

**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

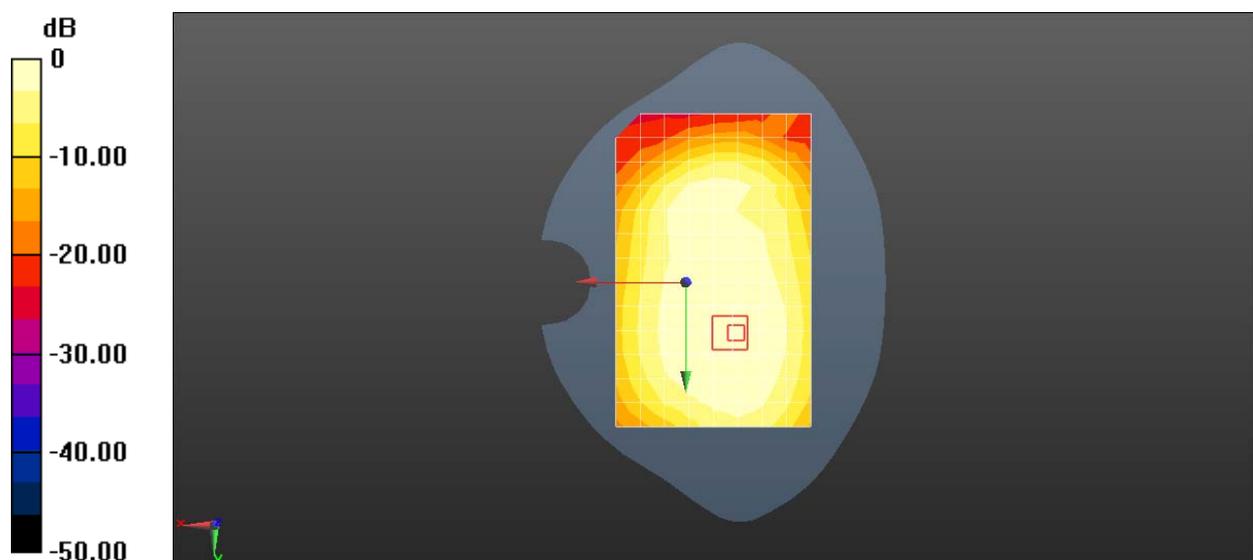
Reference Value = 14.15 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.337 W/kg

**SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.186 W/kg**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.303 W/kg



0 dB = 0.300 W/kg = -5.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 99 offset 38150CH Left touch with Battery2-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 1.979$  S/m;  $\epsilon_r = 38.198$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.31, 7.31, 7.31); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (11x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.505 W/kg

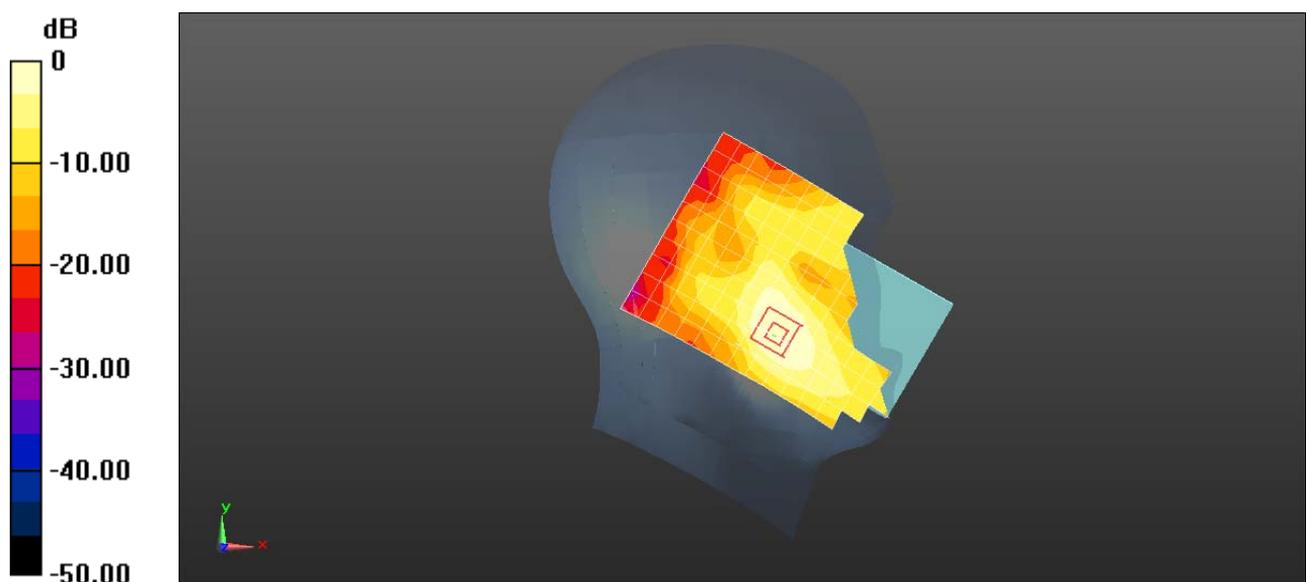
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.068 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.667 W/kg

**SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.212 W/kg**

Maximum value of SAR (measured) = 0.566 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 99 offset 38150CH Back side 15mm with Battery2-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.225$  S/m;  $\epsilon_r = 50.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.494 W/kg

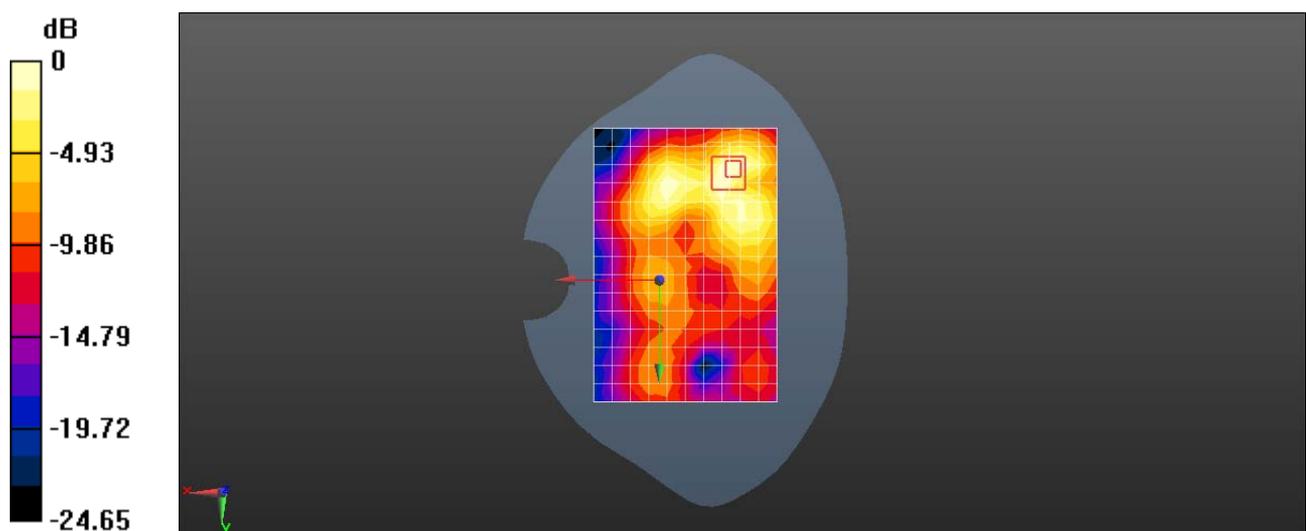
**Configuration/Body/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.227 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.660 W/kg

**SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.165 W/kg**

Maximum value of SAR (measured) = 0.538 W/kg



0 dB = 0.494 W/kg = -3.06 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XXXVIII 20M QPSK 1RB 99 offset 38150CH Back side 10mm -Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2610 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2610$  MHz;  $\sigma = 2.225$  S/m;  $\epsilon_r = 50.251$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x16x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 1.35 W/kg

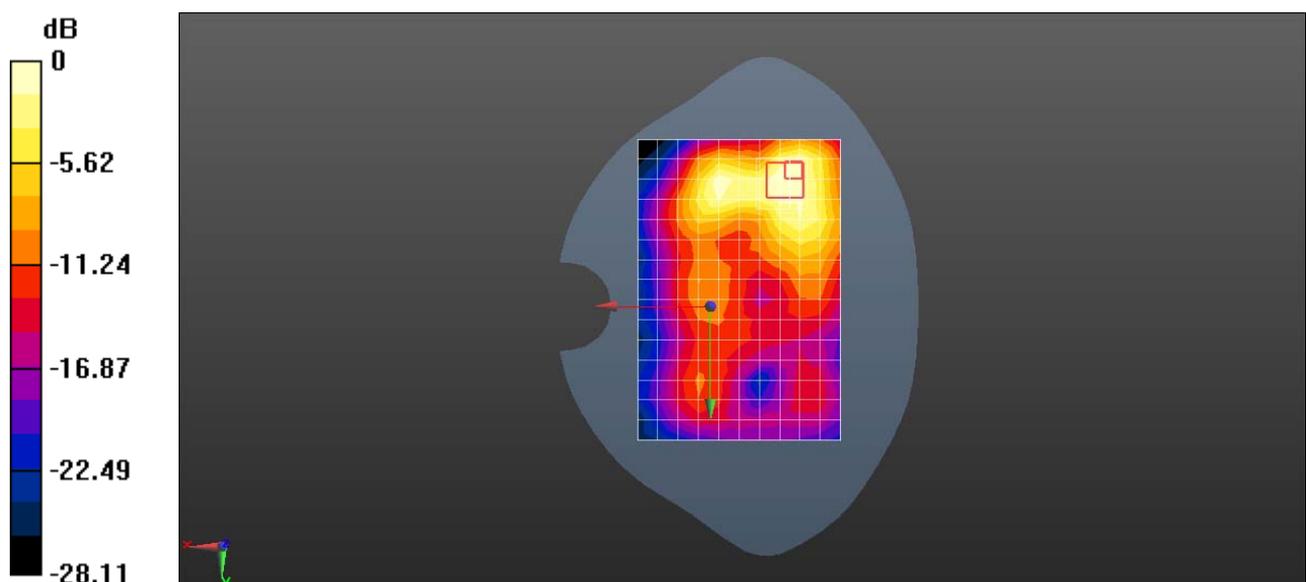
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.408 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.08 W/kg

**SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.419 W/kg**

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XLI 20M QPSK 1RB 99 offset 40740CH Left touch-Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2605 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2605$  MHz;  $\sigma = 1.981$  S/m;  $\epsilon_r = 38.241$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.31, 7.31, 7.31); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn918; Calibrated: 2017-6-26
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.363 W/kg

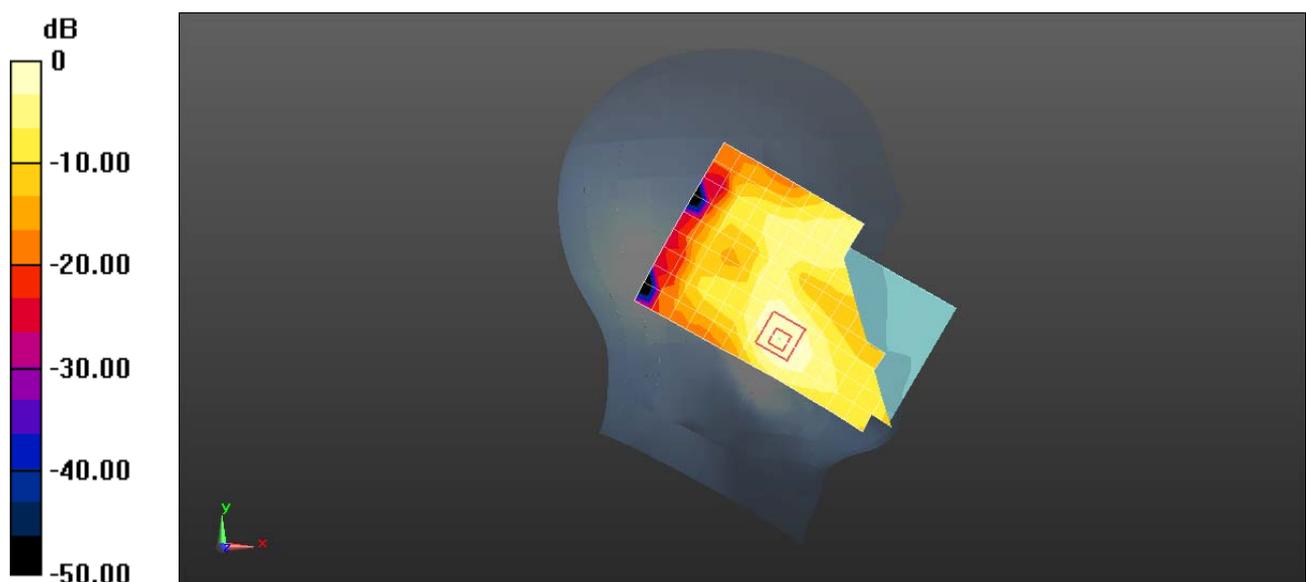
**Configuration/Head/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.803 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.446 W/kg

**SAR(1 g) = 0.260 W/kg; SAR(10 g) = 0.140 W/kg**

Maximum value of SAR (measured) = 0.382 W/kg



0 dB = 0.363 W/kg = -4.40 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 LTE Band XLI 20M QPSK 50RB 50 offset 40340CH Back side 15mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2565 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2565$  MHz;  $\sigma = 2.181$  S/m;  $\epsilon_r = 50.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

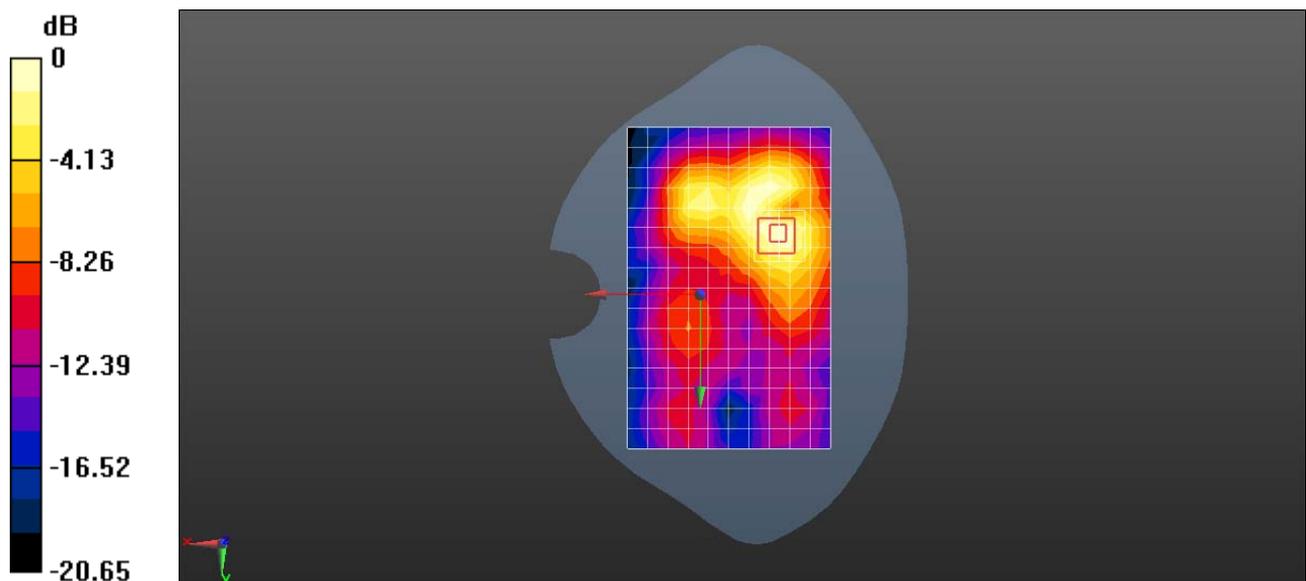
**Configuration/Body/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.237 W/kg

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

Reference Value = 2.491 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.296 W/kg

**SAR(1 g) = 0.158 W/kg; SAR(10 g) = 0.081 W/kg**



0 dB = 0.237 W/kg = -6.25 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 LTE Band XLI 20M QPSK 1RB 50 offset 40340CH Back side 10mm- Main Antenna

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, LTE-TDD (SC-FDMA, 20MHz, QPSK/16-QAM) (0); Frequency: 2565 MHz; Duty Cycle: 1:1.57906

Medium parameters used:  $f = 2565$  MHz;  $\sigma = 2.181$  S/m;  $\epsilon_r = 50.332$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.27, 7.27, 7.27); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

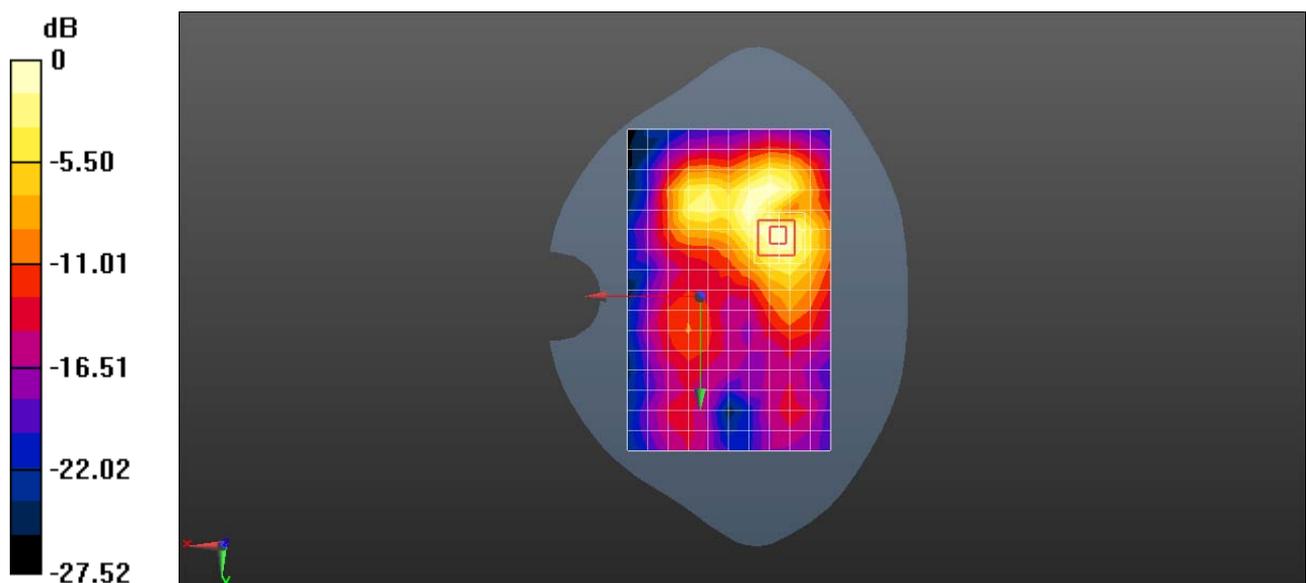
**Configuration/Body/Area Scan (11x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 0.937 W/kg

**Configuration/Body/Zoom Scan (9x10x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm,  
dz=5mm

Reference Value = 4.026 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.17 W/kg

**SAR(1 g) = 0.592 W/kg; SAR(10 g) = 0.294 W/kg**



0 dB = 0.937 W/kg = -0.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 WiFi 2.4G 802.11b 1M 6CH Left touch

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.802$  S/m;  $\epsilon_r = 38.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>

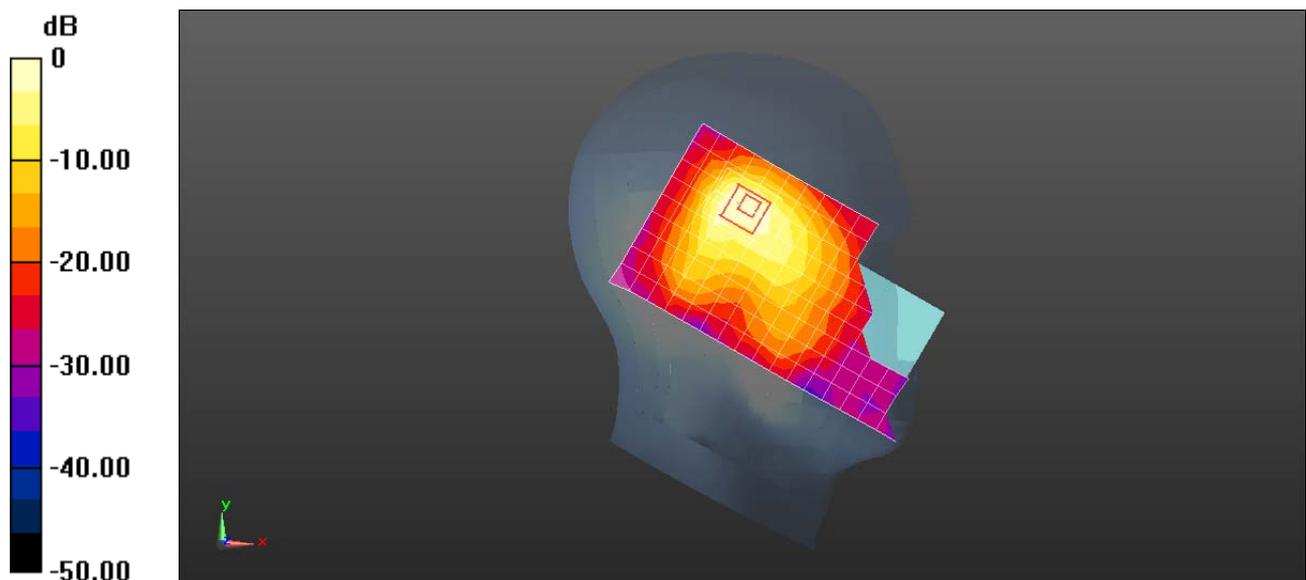
Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.44, 7.44, 7.44); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (10x17x1):** Measurement grid: dx=12mm, dy=12mm  
Maximum value of SAR (measured) = 1.25 W/kg

**Configuration/Head/Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 8.226 V/m; Power Drift = -0.14 dB  
Peak SAR (extrapolated) = 1.86 W/kg  
**SAR(1 g) = 0.745 W/kg; SAR(10 g) = 0.355 W/kg**  
Maximum value of SAR (measured) = 1.37 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 WiFi2.4G 802.11b 1M 6CH Front Side 15mm

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.994$  S/m;  $\epsilon_r = 50.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.43, 7.43, 7.43); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.0989 W/kg

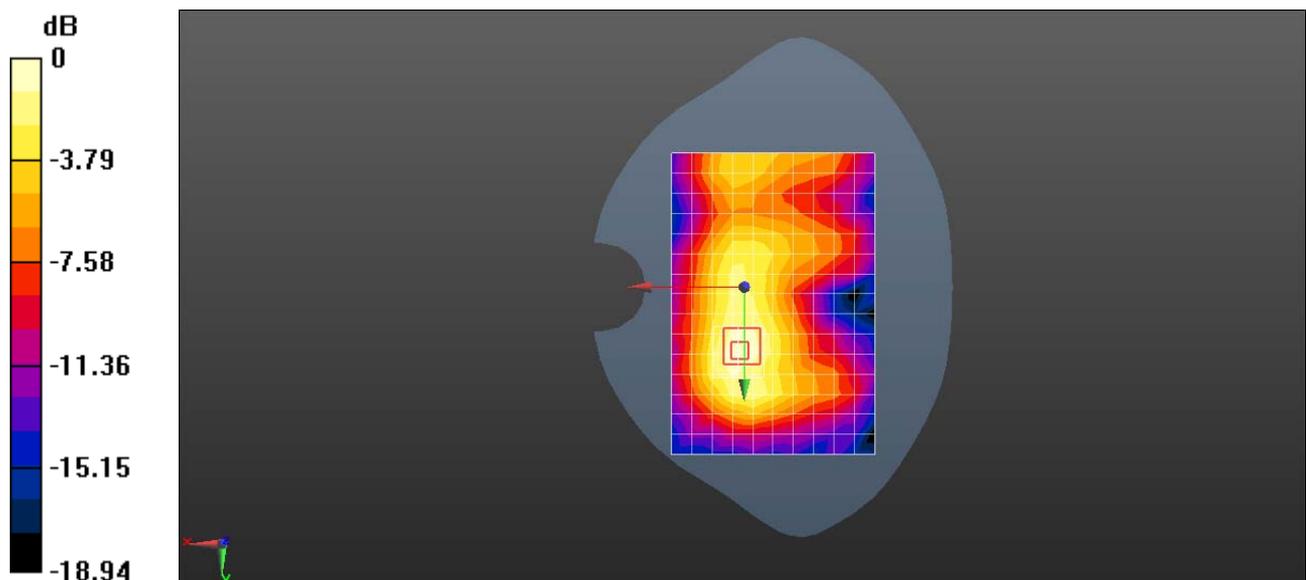
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 4.254 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.121 W/kg

**SAR(1 g) = 0.067 W/kg; SAR(10 g) = 0.037 W/kg**

Maximum value of SAR (measured) = 0.100 W/kg



0 dB = 0.0989 W/kg = -10.05 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 WiFi2.4G 802.11b 1M 6CH Front Side 10mm

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 2437$  MHz;  $\sigma = 1.994$  S/m;  $\epsilon_r = 50.66$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(7.43, 7.43, 7.43); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (11x16x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm  
Maximum value of SAR (measured) = 0.198 W/kg

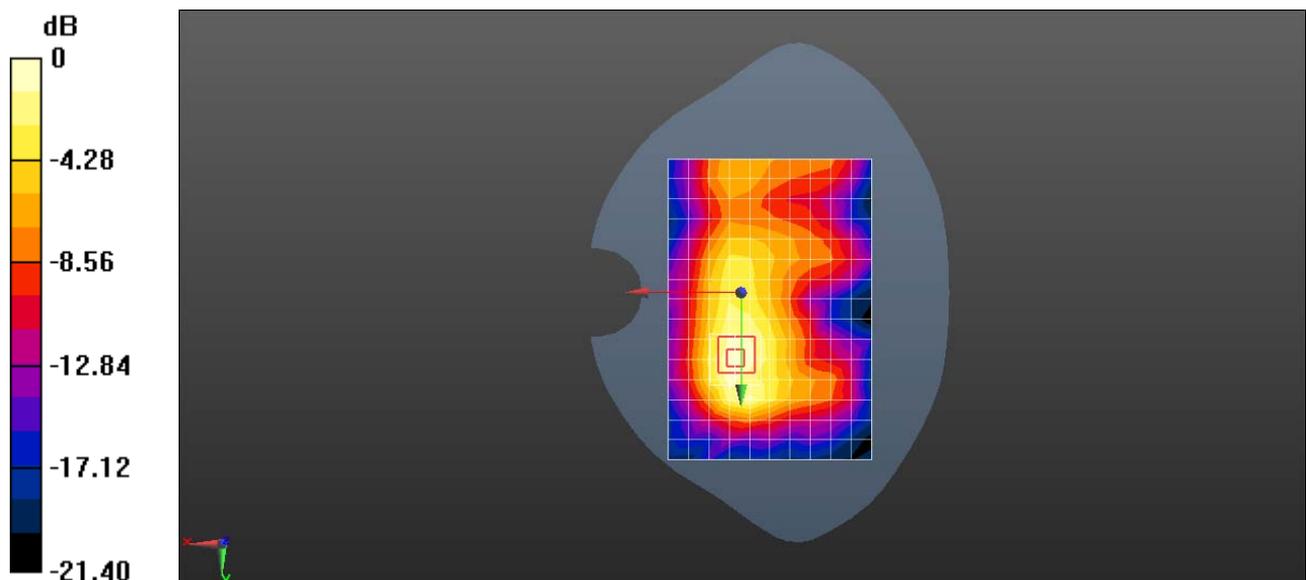
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.476 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.255 W/kg

**SAR(1 g) = 0.136 W/kg; SAR(10 g) = 0.072 W/kg**

Maximum value of SAR (measured) = 0.210 W/kg



0 dB = 0.198 W/kg = -7.03 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 WiFi 5G 802.11ac 20M 120CH Left Touch

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5600 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.949$  S/m;  $\epsilon_r = 34.609$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(4.76, 4.76, 4.76); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM1; Type: SAM; Serial: TP-1475
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Head/Area Scan (12x20x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 1.47 W/kg

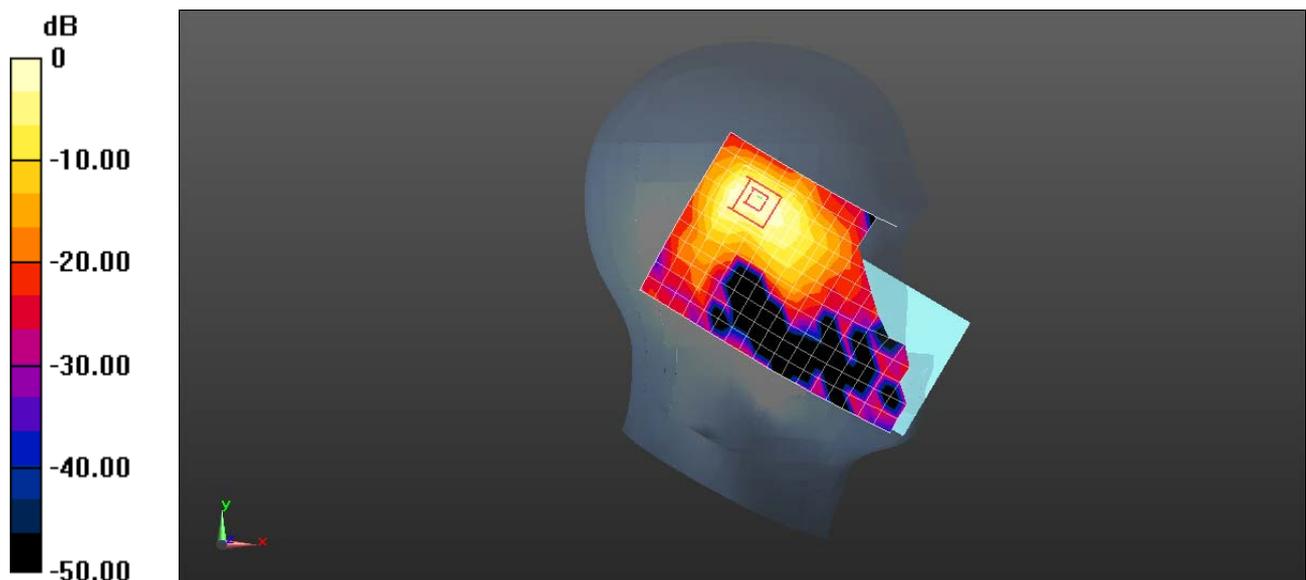
**Configuration/Head/Zoom Scan (9x9x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 3.967 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 3.65 W/kg

**SAR(1 g) = 0.841 W/kg; SAR(10 g) = 0.277 W/kg**

Maximum value of SAR (measured) = 2.07 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 WIFI 5G 802.11n 40M 118CH Front Side 15mm with Battery 2

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5590 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.727$  S/m;  $\epsilon_r = 48.088$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(4.3, 4.3, 4.3); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (12x19x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.166 W/kg

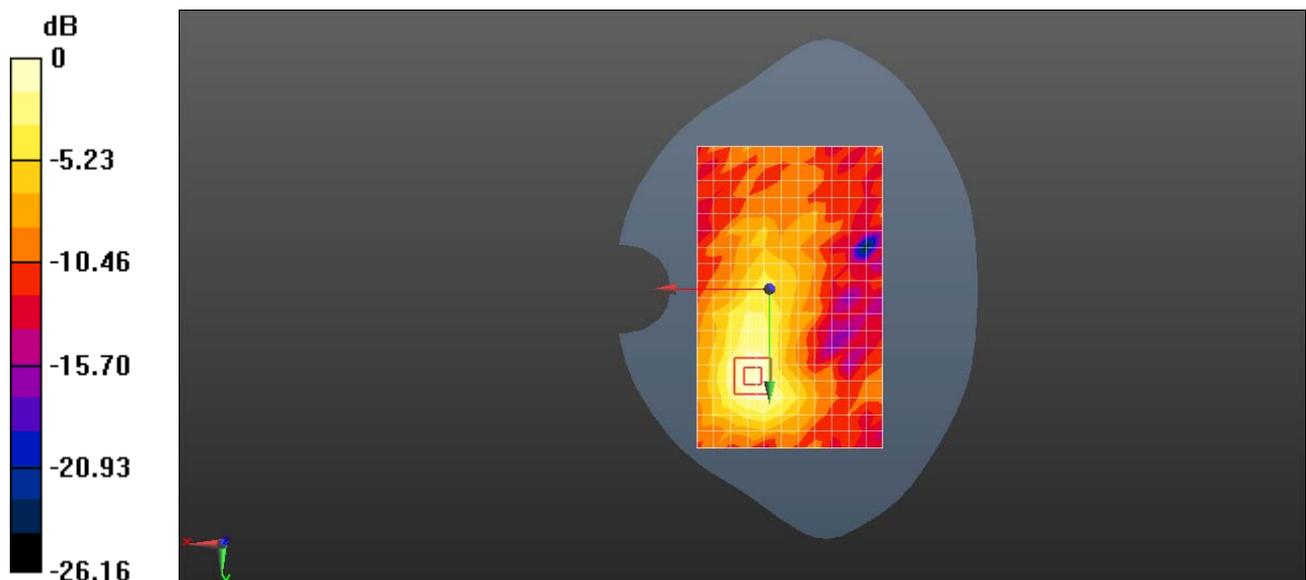
**Configuration/Body/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 1.937 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.331 W/kg

**SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.030 W/kg**

Maximum value of SAR (measured) = 0.176 W/kg



0 dB = 0.166 W/kg = -7.80 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MHA-L29 WiFi 5G 802.11n 40M 151CH Right Side 10mm

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5755 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5755$  MHz;  $\sigma = 6.049$  S/m;  $\epsilon_r = 47.409$ ;  $\rho = 1000$  kg/m<sup>3</sup>

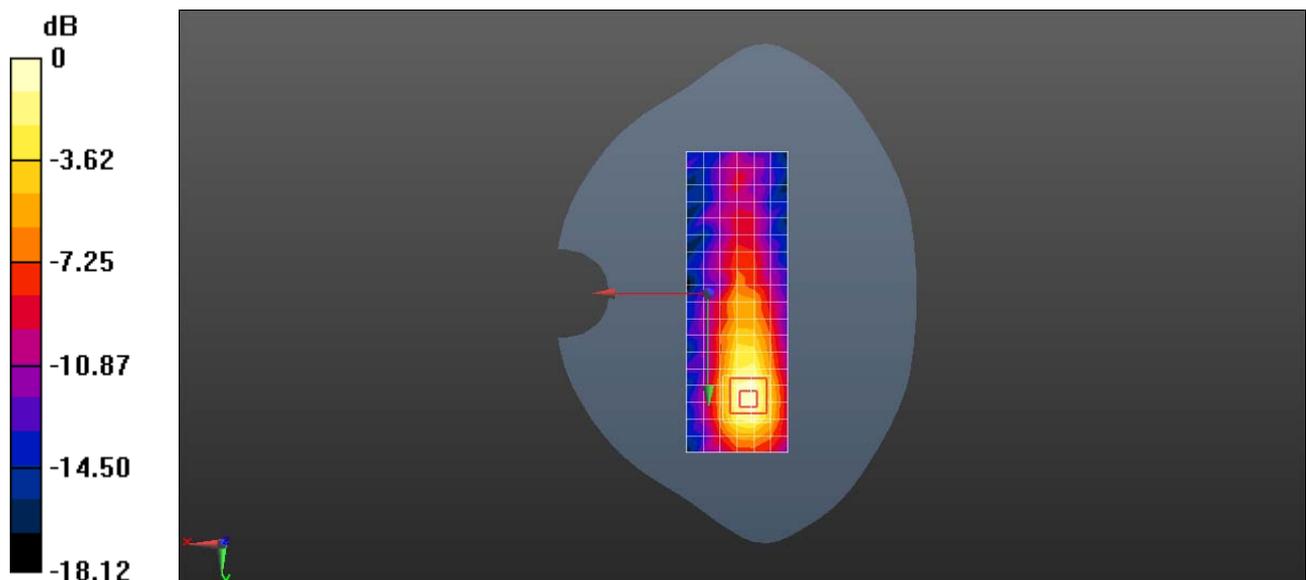
Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(4.48, 4.48, 4.48); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x19x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 0.388 W/kg

**Configuration/Body/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm  
Reference Value = 2.692 V/m; Power Drift = 0.10 dB  
Peak SAR (extrapolated) = 0.793 W/kg  
**SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.066 W/kg**  
Maximum value of SAR (measured) = 0.418 W/kg



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

Test Laboratory: HUAWEI SAR/HAC Lab

## MHA-L29 WiFi 5G 802.11n 40M 118CH Right Side 0mm

**DUT: MHA-L29; Type: Smart Phone; Serial: SAR1**

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 5590 MHz; Duty Cycle: 1:1  
Medium parameters used:  $f = 5590$  MHz;  $\sigma = 5.727$  S/m;  $\epsilon_r = 48.088$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3578; ConvF(4.3, 4.3, 4.3); Calibrated: 2017-5-5;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 25.0$
- ε Electronics: DAE4 Sn1236; Calibrated: 2017-7-21
- ε Phantom: SAM2; Type: SAM; Serial: TP:1474
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/Body/Area Scan (7x19x1):** Measurement grid:  $dx=10$ mm,  $dy=10$ mm  
Maximum value of SAR (measured) = 3.27 W/kg

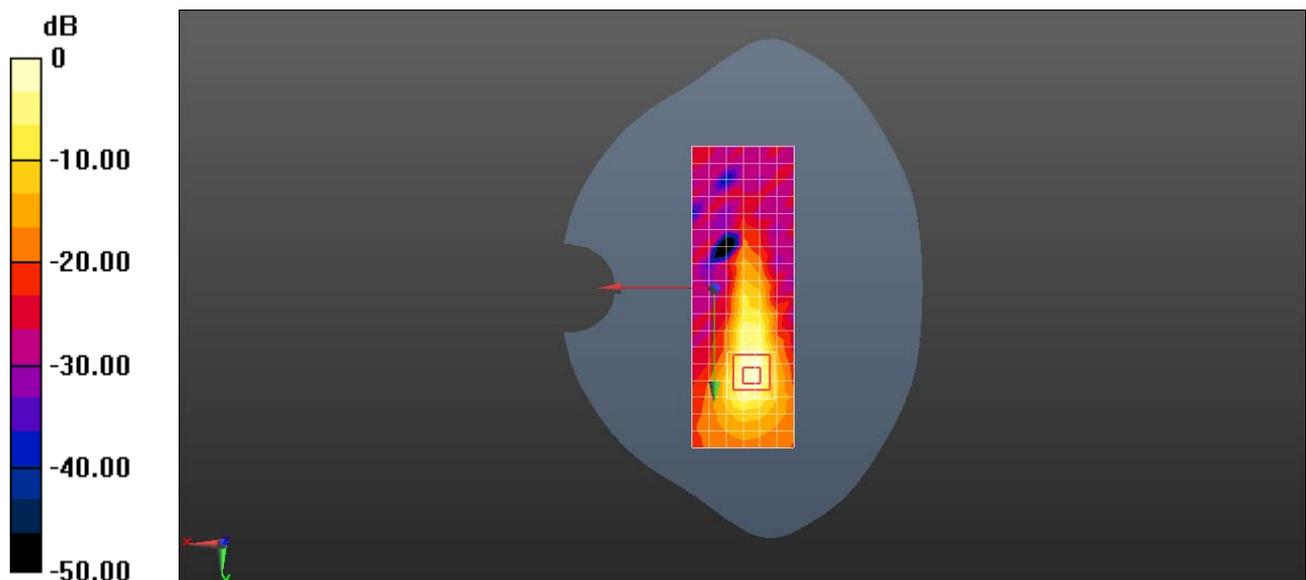
**Configuration/Body/Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4$ mm,  $dy=4$ mm,  $dz=1.4$ mm

Reference Value = 4.724 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 2.65 W/kg; SAR(10 g) = 0.652 W/kg**

Maximum value of SAR (measured) = 7.41 W/kg



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