



## Appendix B DASY Measurement Results

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Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 GSM850 GPRS 2TS 190CH Front Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 1.009$  S/m;  $\epsilon_r = 53.361$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

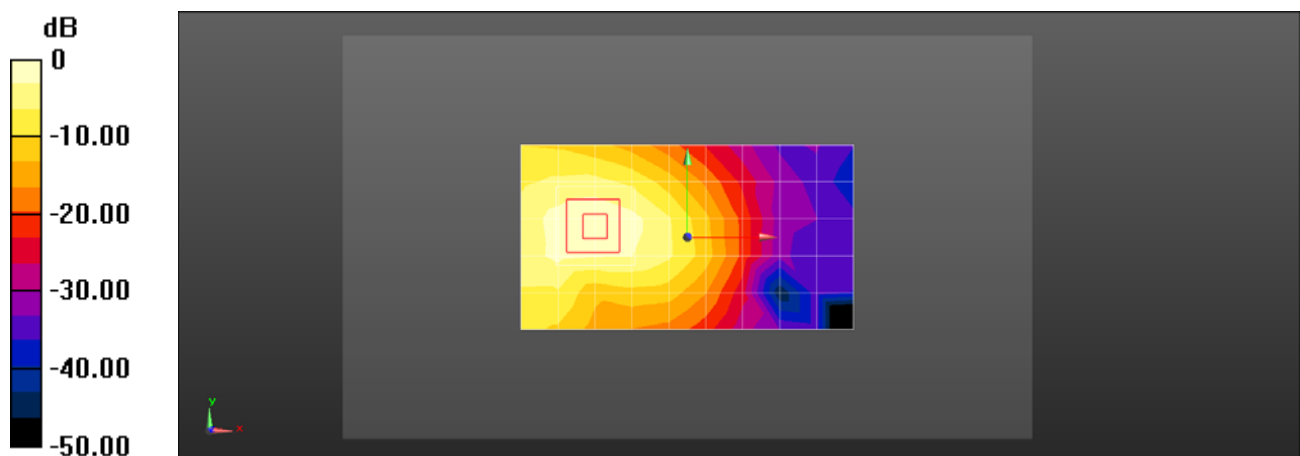
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 10.28 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.33 W/kg

**SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.430 W/kg**

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.02 W/kg = 0.10 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 GSM1900 GPRS 2TS 512CH Front Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

Communication System: UID 0, HW-GSM\GPRS\EGPRS-2TS (0); Frequency: 1850.2 MHz; Duty Cycle: 1:4.10015

Medium parameters used (interpolated):  $f = 1850.2$  MHz;  $\sigma = 1.456$  S/m;  $\epsilon_r = 52.716$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 0.721 W/kg

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

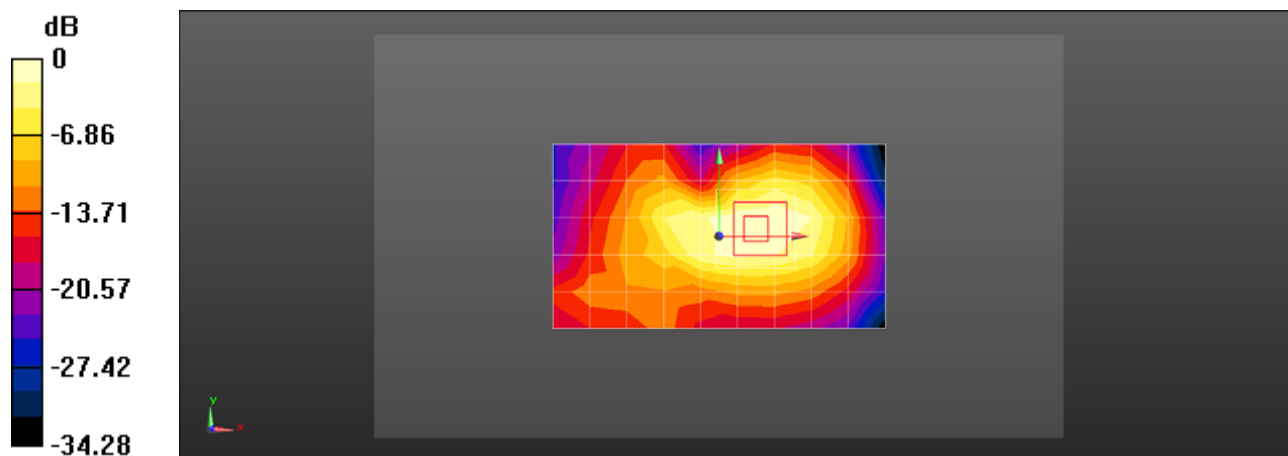
Reference Value = 18.74 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.951 W/kg

**SAR(1 g) = 0.568 W/kg; SAR(10 g) = 0.326 W/kg**

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

Maximum value of SAR (measured) = 0.802 W/kg



0 dB = 0.721 W/kg = -1.42 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 UMTS Band II 9400CH Right Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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

Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.486$  S/m;  $\epsilon_r = 52.764$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.798 W/kg

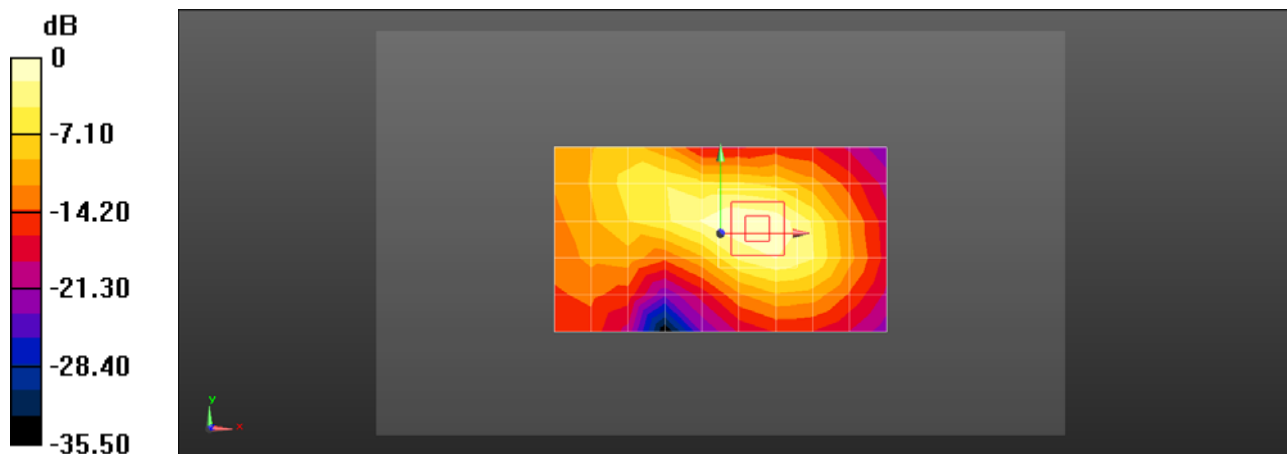
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 17.55 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.00 W/kg

**SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.320 W/kg**

Maximum value of SAR (measured) = 0.857 W/kg



0 dB = 0.798 W/kg = -0.98 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 UMTS Band IV 1513CH Back Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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

Medium parameters used:  $f = 1753$  MHz;  $\sigma = 1.468$  S/m;  $\epsilon_r = 53.303$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.33 W/kg

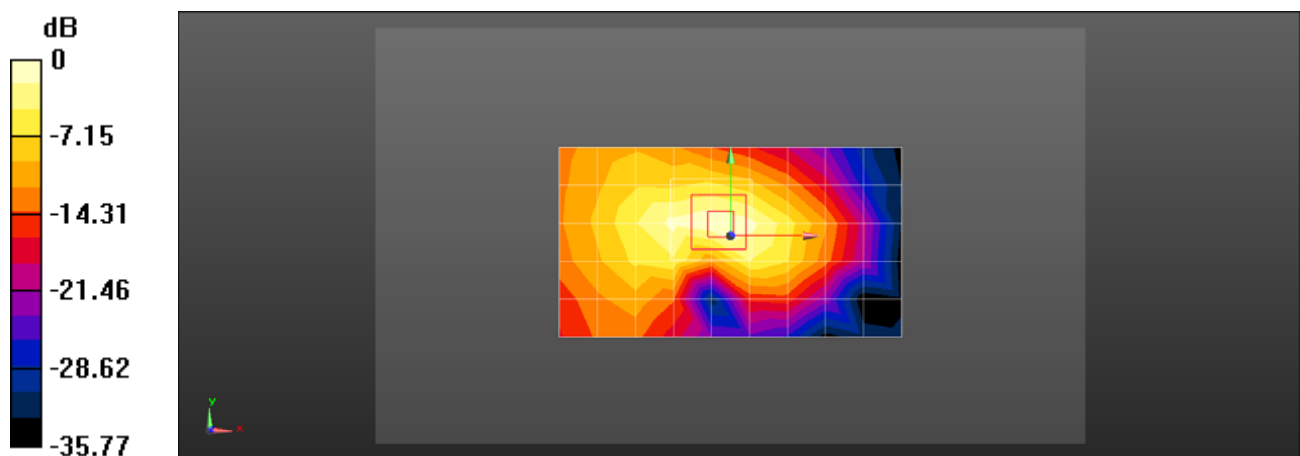
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 24.34 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.65 W/kg

**SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.450 W/kg**

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.33 W/kg = 1.23 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 UMTS Band V 4233CH Back Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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

Medium parameters used:  $f = 847$  MHz;  $\sigma = 1.004$  S/m;  $\epsilon_r = 53.552$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = -9.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Head/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.32 W/kg

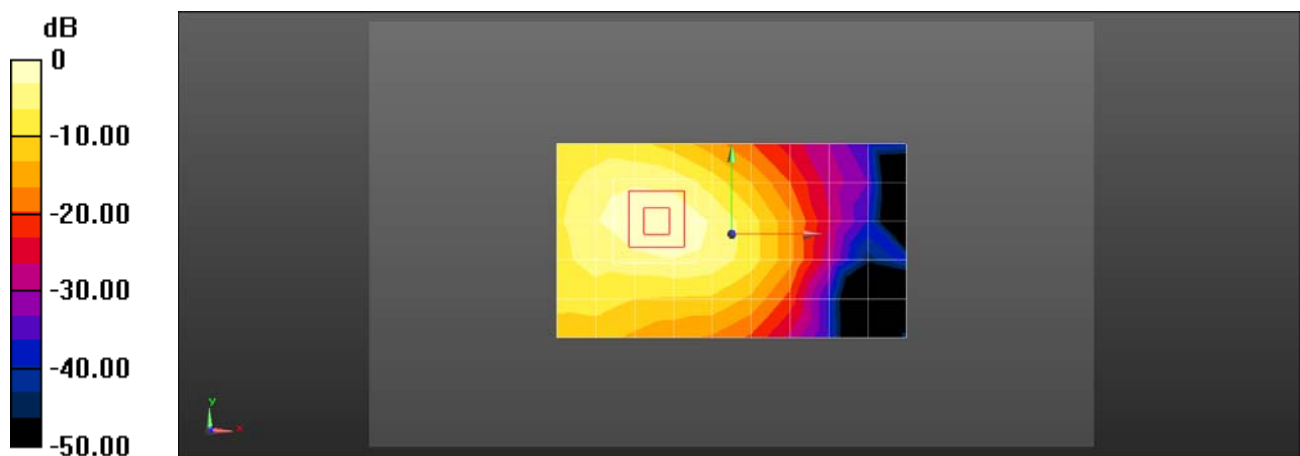
**Configuration/Head/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 15.97 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.82 W/kg

**SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.581 W/kg**

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



0 dB = 1.32 W/kg = 1.22 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

### MS2372h-517 LTE Band II 20M QPSK 1RB 50 offset 18700CH Front Side 5mm

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 1.473$  S/m;  $\epsilon_r = 52.802$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(7.62, 7.62, 7.62); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 0.699 W/kg

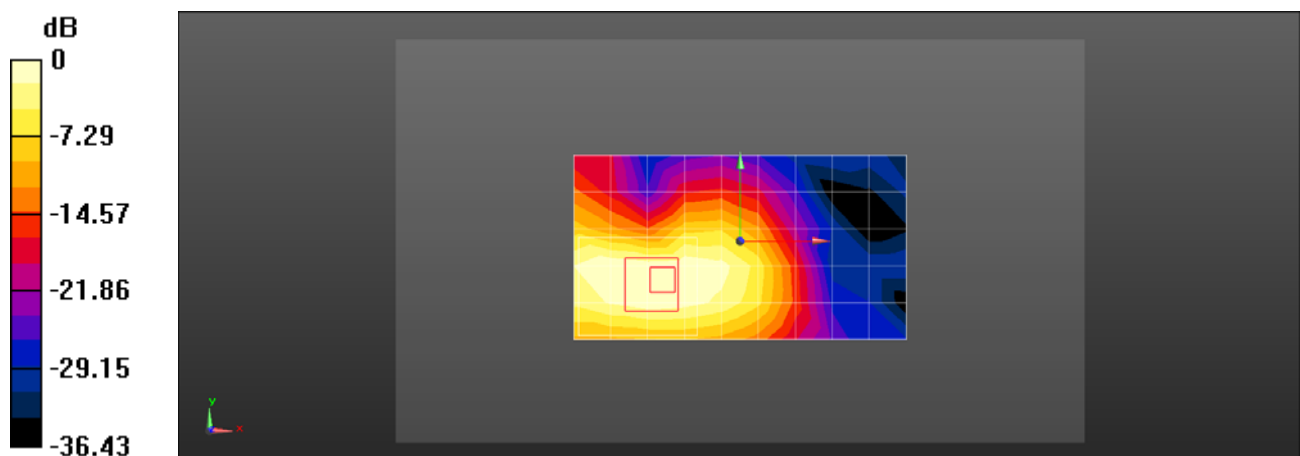
**Configuration/Body/Zoom Scan (6x7x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 7.814 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.41 W/kg

**SAR(1 g) = 0.655 W/kg; SAR(10 g) = 0.318 W/kg**

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



0 dB = 0.699 W/kg = -1.56 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MS2372h-517 LTE Band IV 20M 50%RB 0 offset 20300CH Back side 5mm**

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 1.375$  S/m;  $\epsilon_r = 53.015$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(7.77, 7.77, 7.77); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.08 W/kg

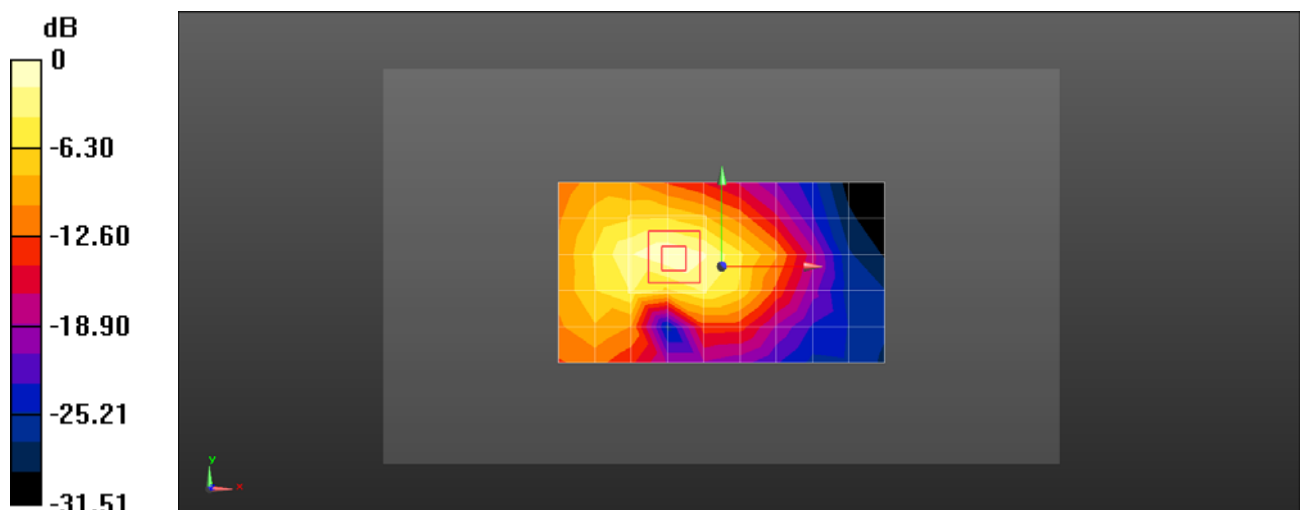
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 16.55 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.775 W/kg; SAR(10 g) = 0.405 W/kg**

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.08 W/kg = 0.34 dBW/kg



Test Laboratory: HUAWEI SAR/HAC Lab

**MS2372h-517 LTE Band V 10M QPSK 1RB 25 offset 20600CH Back Side 5mm**

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 1.017$  S/m;  $\epsilon_r = 54.471$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(9.59, 9.59, 9.59); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x11x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

Maximum value of SAR (measured) = 1.49 W/kg

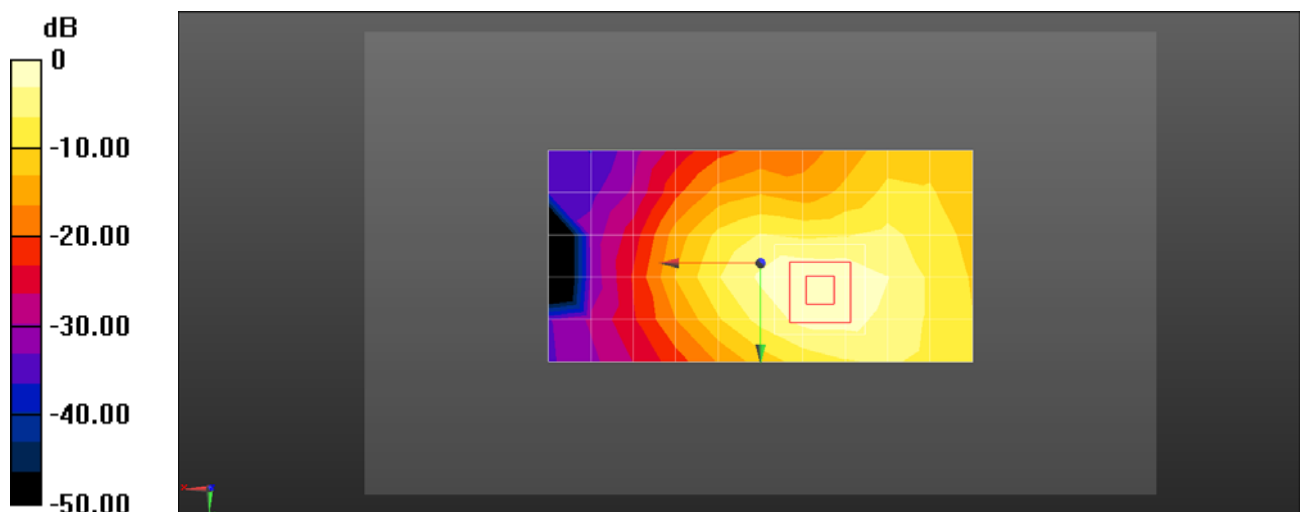
**Configuration/Body/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8$ mm,  $dy=8$ mm,  $dz=5$ mm

Reference Value = 22.79 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 1 W/kg; SAR(10 g) = 0.587 W/kg**

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

**MS2372h-517 LTE Band VII 20M 50%RB 25 offset 21100CH Back Side 5mm**

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 2.158$  S/m;  $\epsilon_r = 53.757$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(6.86, 6.86, 6.86); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (8x13x1):** Measurement grid:  $dx=12$ mm,  $dy=12$ mm

Maximum value of SAR (measured) = 0.789 W/kg

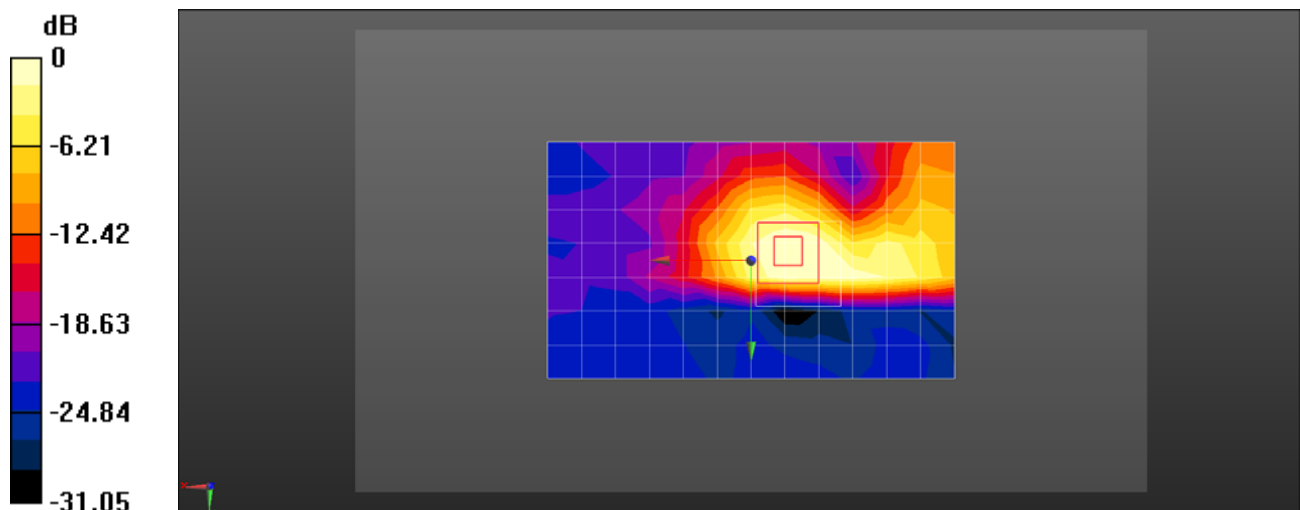
**Configuration/Body/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

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

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.667 W/kg; SAR(10 g) = 0.350 W/kg**

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



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

Test Laboratory: HUAWEI SAR/HAC Lab

**MS2372h-517 LTE Band XII 10M QPSK 50%RB 25 offset 23095CH Back Side 5mm**

**DUT: MS2372h-517; Type: LTE USB Stick; Serial: SAR4**

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;  $\sigma = 0.964$  S/m;  $\epsilon_r = 54.833$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Center Section

DASY Configuration:

- ε Probe: EX3DV4 - SN3820; ConvF(9.47, 9.47, 9.47); Calibrated: 2017/6/27;
- ε Sensor-Surface: 1.4mm (Mechanical Surface Detection),  $z = 1.0, 31.0$
- ε Electronics: DAE4 Sn905; Calibrated: 2017/6/20
- ε Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1176/1
- ε DASY52 52.8.8(1222); SEMCAD X 14.6.10(7373)

**Configuration/Body/Area Scan (6x10x1):** Measurement grid:  $dx=15$ mm,  $dy=15$ mm

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

Maximum value of SAR (measured) = 1.09 W/kg

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

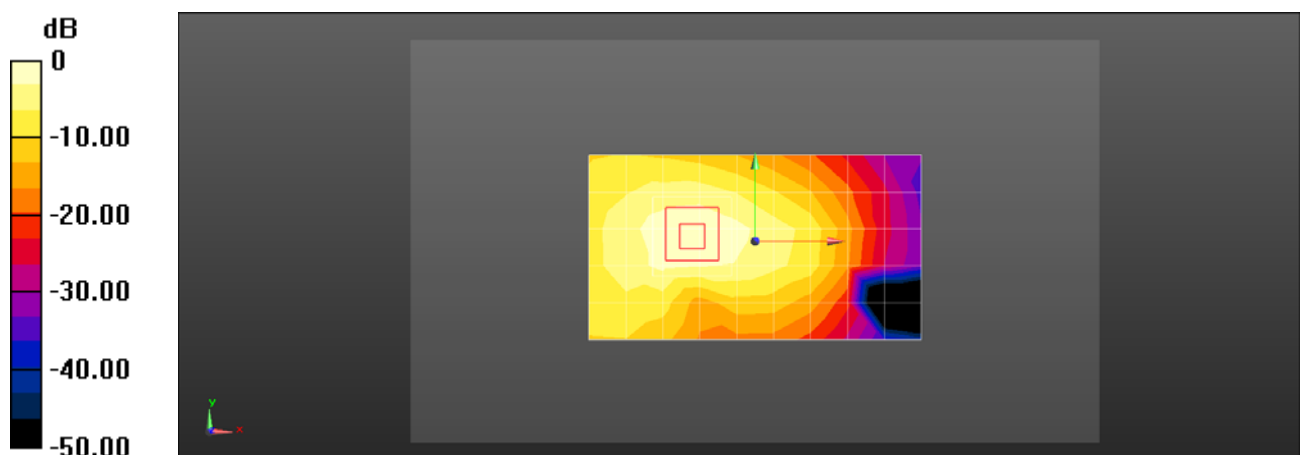
Reference Value = 20.04 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.461 W/kg**

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

Maximum value of SAR (measured) = 1.20 W/kg



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