



Appendix B. SAR Measurement Plots

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Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 2.4G 802.11b 6CH Bottom Side 0mm with Battery2-Main Antenna

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR1

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2437 MHz; Duty Cycle: 1:1.02

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 1.99$ S/m; $\epsilon_r = 53.038$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.28, 7.28, 7.28) @ 2437 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2018-11-14
- Phantom: ELI v5.0; Type: ELI; Serial: 1038
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (14x28x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

Maximum value of SAR (measured) = 0.774 W/kg

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

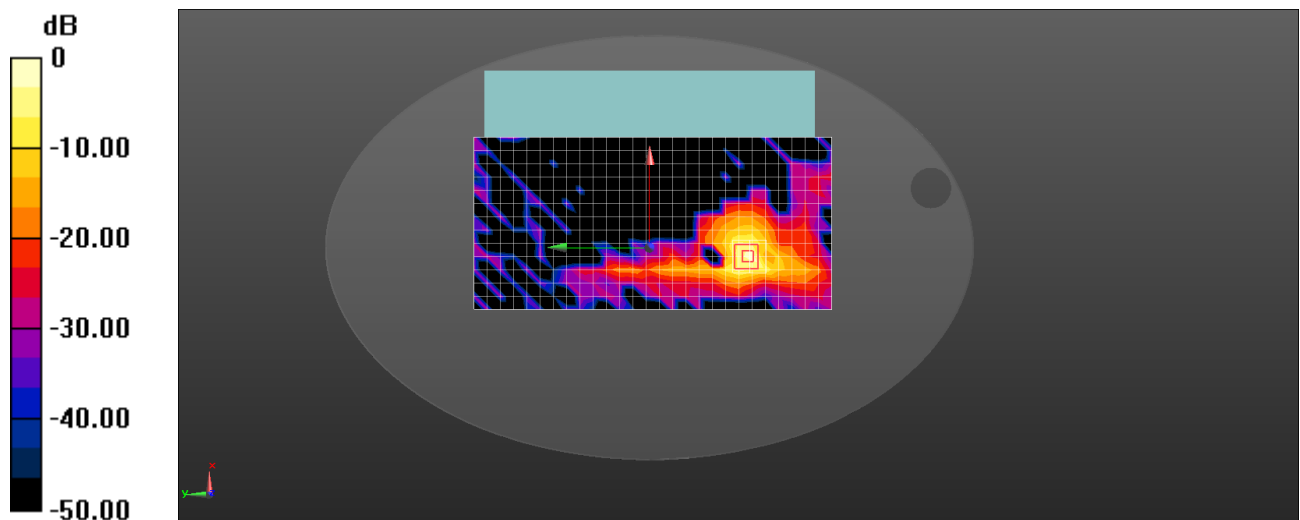
Reference Value = 0.4410 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.219 W/kg

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

Maximum value of SAR (measured) = 0.937 W/kg



0 dB = 0.937 W/kg = -0.28 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 2.4G 802.11b 2CH Bottom Side 0mm-Aux Antenna

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR1

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2417 MHz; Duty Cycle: 1:1.02

Medium parameters used (interpolated): $f = 2417$ MHz; $\sigma = 1.971$ S/m; $\epsilon_r = 53.068$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.28, 7.28, 7.28) @ 2417 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2018-11-14
- Phantom: ELI v5.0; Type: ELI; Serial: 1038
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (14x28x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

Maximum value of SAR (measured) = 0.401 W/kg

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

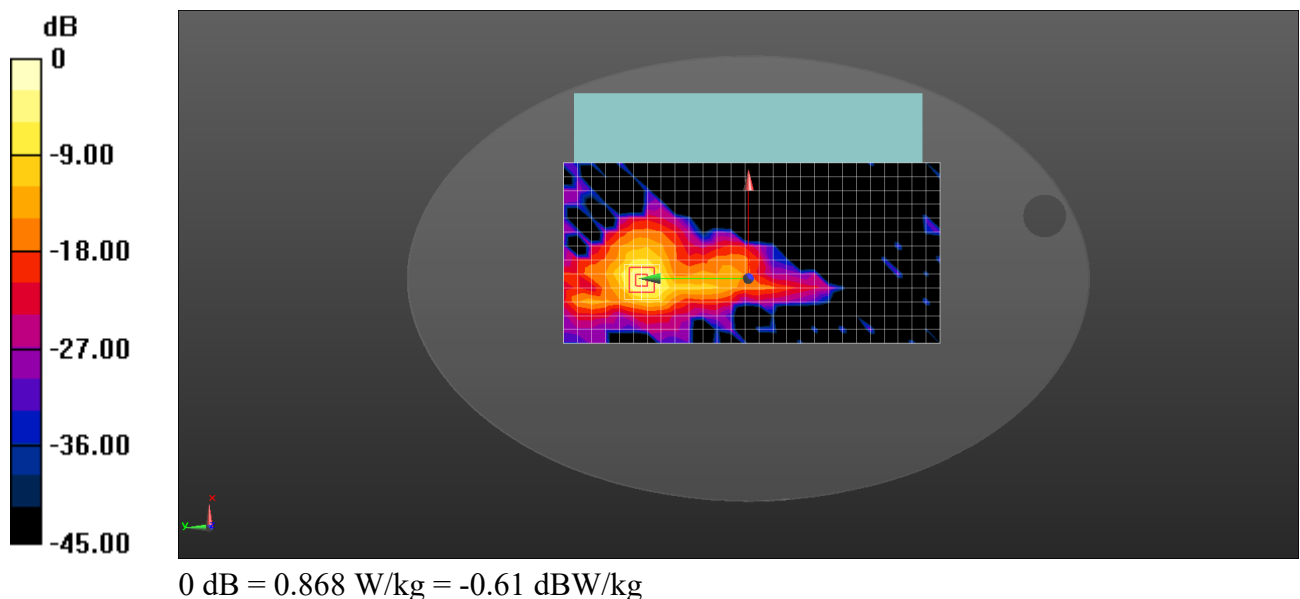
Reference Value = 3.237 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.201 W/kg

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

Maximum value of SAR (measured) = 0.868 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 2.4G 802.11n 20M 10CH Bottom Side 0mm with Battery2-MIMO Mode

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR1

Communication System: UID 0, WiFi(802.11a/b/g/n/ac) (0); Frequency: 2457 MHz;Duty Cycle: 1:1.02

Medium parameters used (interpolated): $f = 2457$ MHz; $\sigma = 2.009$ S/m; $\epsilon_r = 53.017$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7505; ConvF(7.28, 7.28, 7.28) @ 2457 MHz; Calibrated: 2018-6-12
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn1492; Calibrated: 2018-11-14
- Phantom: ELI v5.0; Type: ELI; Serial: 1038
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (14x28x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

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

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

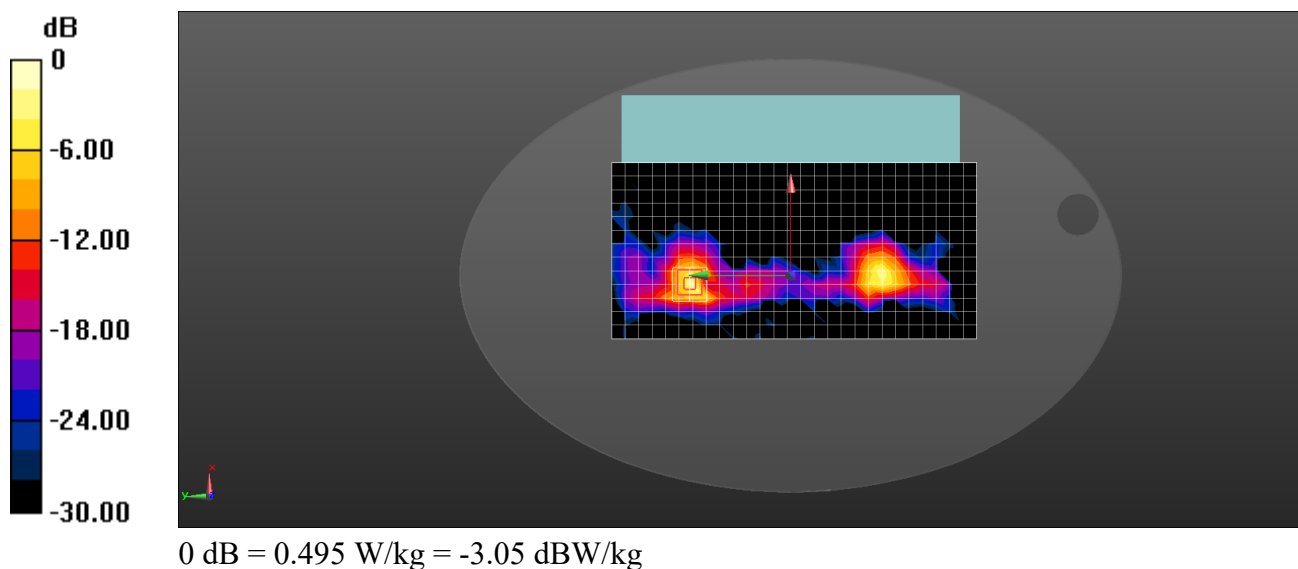
Reference Value = 1.795 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.569 W/kg

SAR(1 g) = 0.279 W/kg; SAR(10 g) = 0.111 W/kg

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

Maximum value of SAR (measured) = 0.495 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 5G 802.11ac 80M 155CH Bottom Side 0mm with Battery2-Main Antenna

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR6

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 5775 MHz; Duty Cycle: 1:1.11
Medium parameters used: $f = 5775$ MHz; $\sigma = 5.893$ S/m; $\epsilon_r = 48.995$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(3.93, 3.93, 3.93) @ 5775 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: ELI V8.0; Type: ELI; Serial: 2090
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (15x35x1): Measurement grid: $dx=10$ mm, $dy=10$ mm
Maximum value of SAR (measured) = 0.901 W/kg

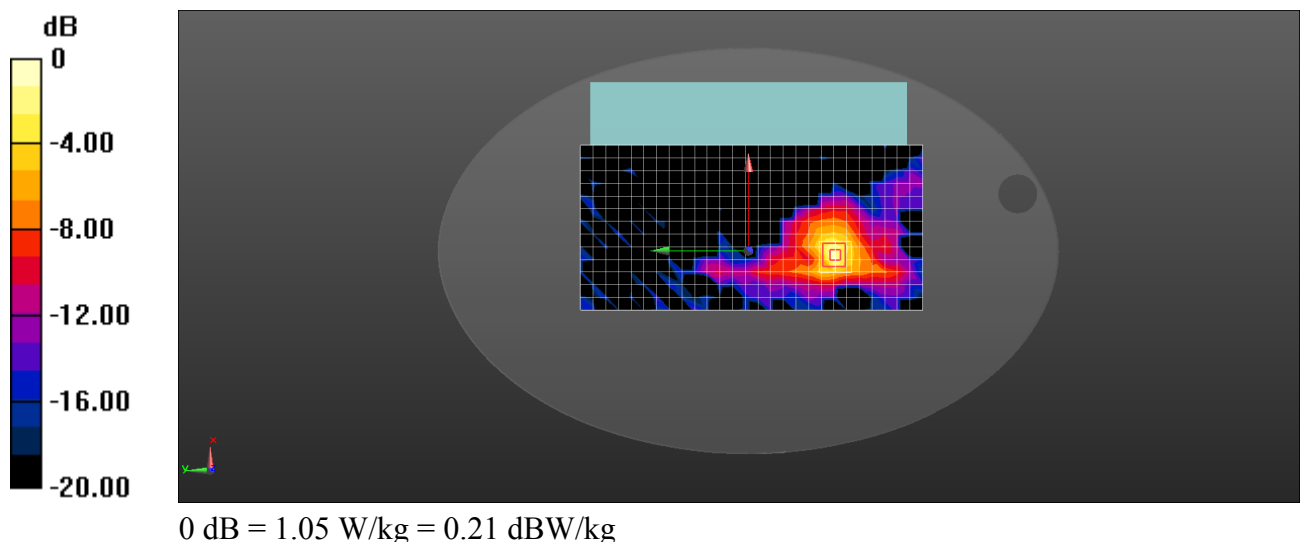
Configuration/Body/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 9.579 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.144 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 5G 802.11ac 160M 114CH Bottom Side 0mm-Aux Antenna

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR6

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 5570 MHz; Duty Cycle: 1:1.11
Medium parameters used (interpolated): $f = 5570$ MHz; $\sigma = 5.746$ S/m; $\epsilon_r = 49.329$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(3.58, 3.58, 3.58) @ 5570 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: ELI V8.0; Type: ELI; Serial: 2090
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (15x35x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

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

Maximum value of SAR (measured) = 0.796 W/kg

Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

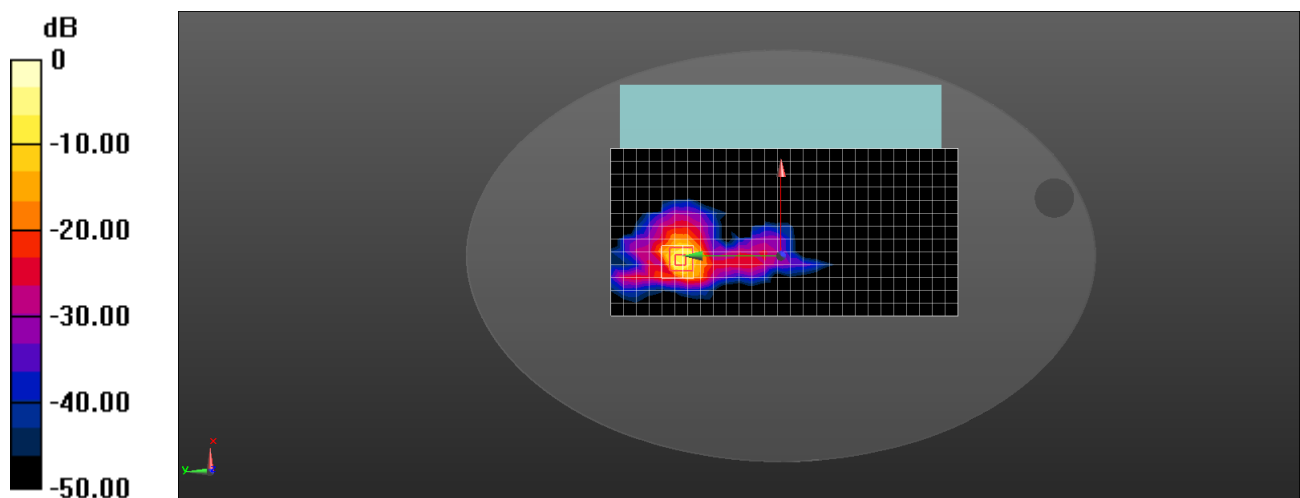
Reference Value = 12.56 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.123 W/kg

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

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



0 dB = 0.857 W/kg = -0.67 dBW/kg

Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W29 WiFi 5G 802.11ac 80M 155CH Bottom Side 0mm-MIMO Mode

DUT: MACHR-W29; Type: HUAWEI MateBook; Serial: SAR6

Communication System: UID 0, WiFi(802.11a/b/g/n) (0); Frequency: 5775 MHz; Duty Cycle: 1:1.11

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.893$ S/m; $\epsilon_r = 48.995$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(3.93, 3.93, 3.93) @ 5775 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 25.0$
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: ELI V8.0; Type: ELI; Serial: 2090
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (15x35x1): Measurement grid: $dx=10$ mm, $dy=10$ mm

Maximum value of SAR (measured) = 0.552 W/kg

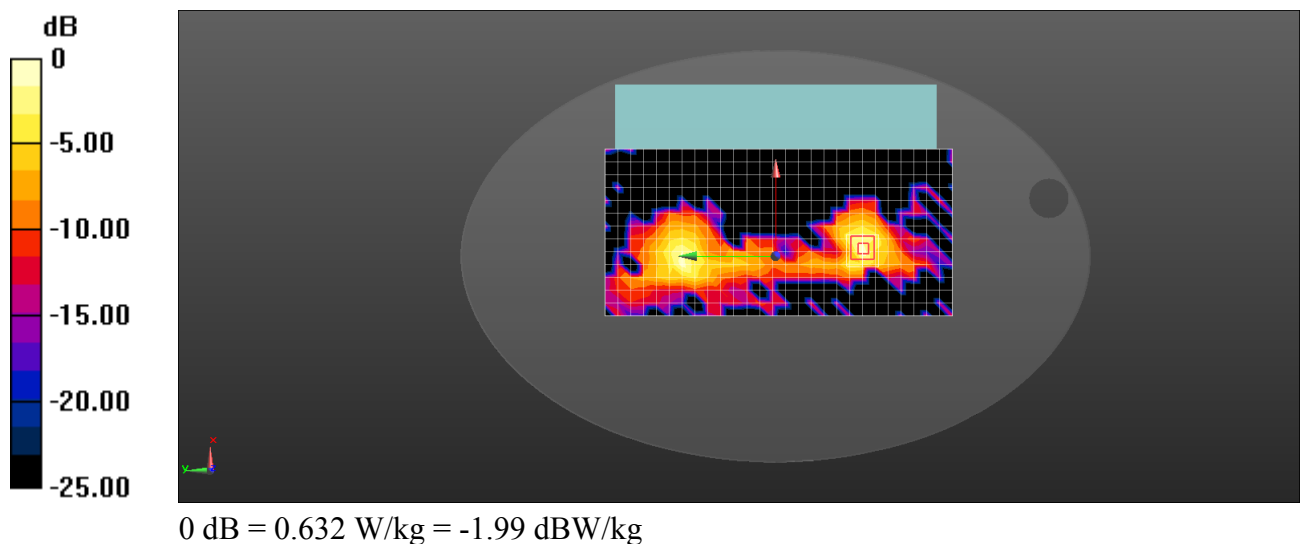
Configuration/Body/Zoom Scan (8x8x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.078 W/kg

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



Test Laboratory: HUAWEI SAR/HAC Lab

MACHR-W19 BT DH5 0CH Bottom Side 0mm with Battery2

DUT: MACHR-W19; Type: HUAWEI MateBook; Serial: SAR6

Communication System: UID 0, BT (0); Frequency: 2402 MHz; Duty Cycle: 1:1.30

Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.907$ S/m; $\epsilon_r = 50.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3736; ConvF(7.02, 7.02, 7.02) @ 2402 MHz; Calibrated: 2018-4-27
- Sensor-Surface: 1.4mm (Mechanical Surface Detection), $z = 1.0, 31.0$
- Electronics: DAE4 Sn851; Calibrated: 2018-7-18
- Phantom: ELI V8.0; Type: ELI; Serial: 2090
- DASY52 52.10.1(1476); SEMCAD X 14.6.11(7439)

Configuration/Body/Area Scan (12x29x1): Measurement grid: $dx=12$ mm, $dy=12$ mm

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

Maximum value of SAR (measured) = 0.0965 W/kg

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

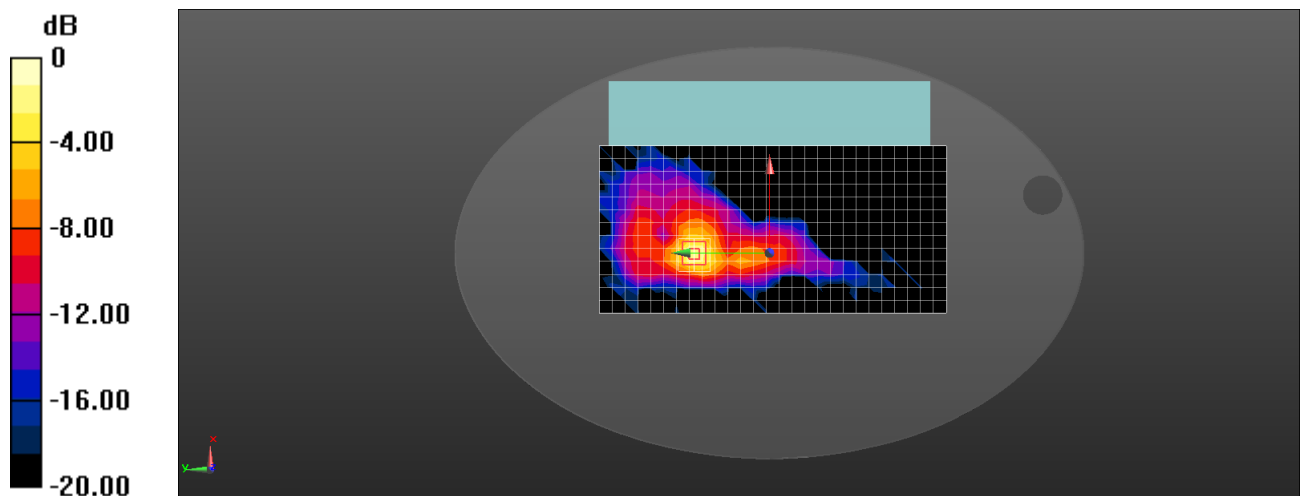
Reference Value = 2.042 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.064 W/kg; SAR(10 g) = 0.025 W/kg

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

Maximum value of SAR (measured) = 0.113 W/kg



0 dB = 0.113 W/kg = -9.47 dBW/kg