

APPENDIX B Plots of the SAR Measurements

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M160204 Personell Belt Clip Tag 920 MHz 3G FCC.da52:0

DUT Name: GE Mining Personnel Tag, Type: PROD1060-2, Serial: 060616100003**Configuration: Belt Clip Sample 1 Antenna (Right)**

Communication System: 0 - CW; Communication System Band: GE Mining; Frequency: 920.0 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=920$ MHz; $\sigma = 1.07$ S/m; $\epsilon_r = 53.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

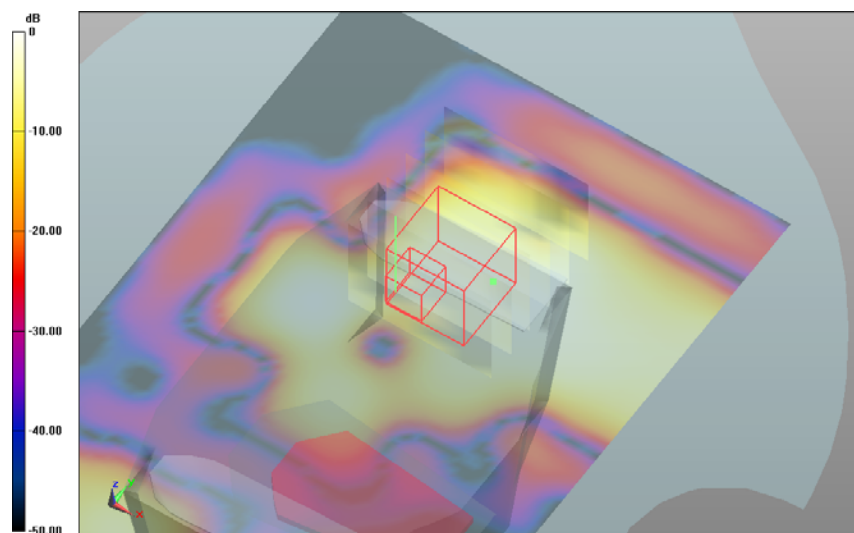
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 12; Type: SAM 12; Serial: 1060

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Belt Clip Sample 1 Antenna (Right)/Channel 3 Test/Area Scan (61x91x1): Interpolated grid: dx=2.0 mm, dy=2.0 mm; Maximum value of SAR (interpolated) = 0.001 W/kg**Belt Clip Sample 1 Antenna (Right)/Channel 3 Test/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid: dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 1.097 V/m; **Power Drift = -0.09 dB****Averaged SAR: SAR(1g) = 0.001 W/kg; SAR(10g) = 0.001 W/kg**

Maximum value of SAR (interpolated) = 0.003 W/kg



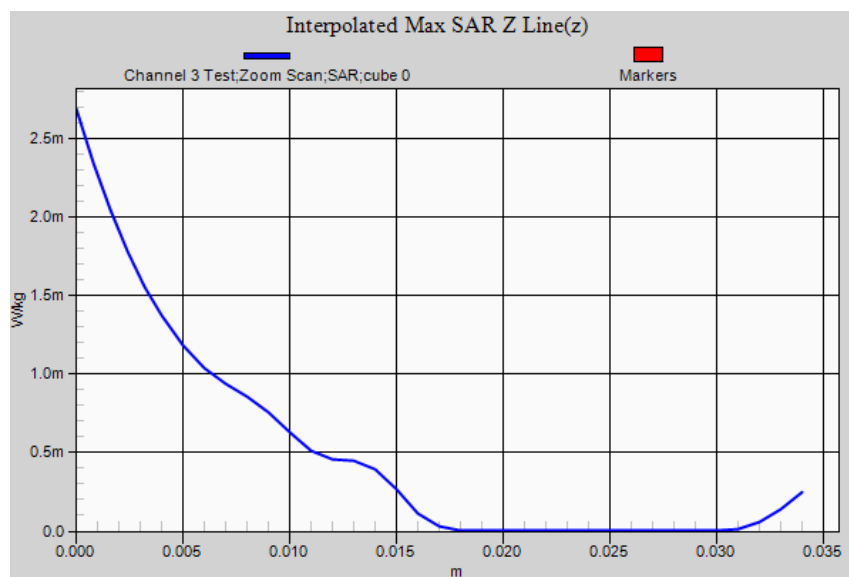
0 dB = 0.00126 W/kg = -29.00 dBW/kg

SAR Measurement Plot 1



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M160204 Personell PROD1060-2 Tag 920 MHz 3G FCC.da52:1

DUT Name: GE Mining Personnel Tag, Type: Belt Clip, Serial: 060616100004**Configuration: Belt Clip Sample 2 Antenna (Top)**

Communication System: 0 - CW; Communication System Band: GE Mining; Frequency: 920.0 MHz,

Communication System PAR: 0.00 dB; PMF: 0.00; Duty Cycle: 1:1.00

Medium Parameters used: $f=920$ MHz; $\sigma = 1.07$ S/m; $\epsilon_r = 53.7$; $\rho = 1000.0$ g/cm³

Phantom section: Flat Section

DASY Configuration:

Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;

Sensor-Surface: 4 mm (Mechanical Surface Detection)

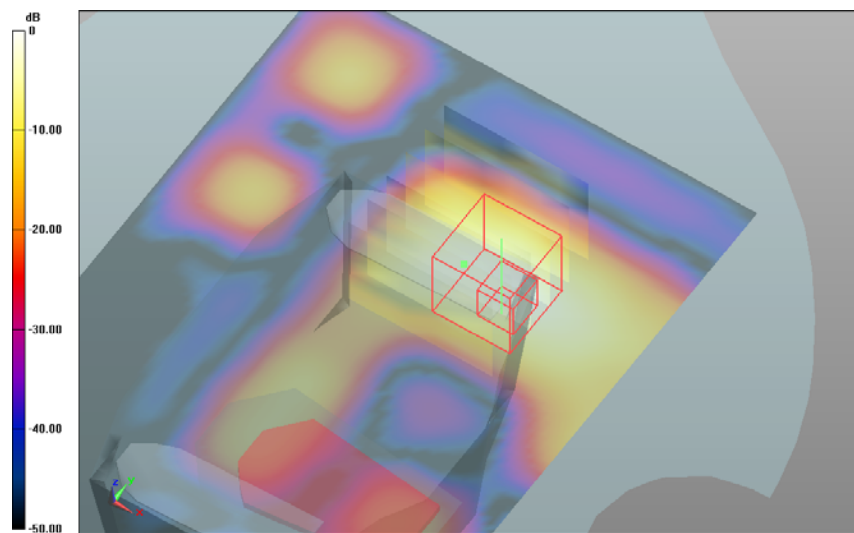
Electronics: DAE3 Sn442; Calibrated: 6/12/2016

Phantom: SAM 12; Type: SAM 12; Serial: 1060

DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

Belt Clip Sample 2 Antenna (Top)/Channel 3 Test/Area Scan (61x91x1): Interpolated grid: dx=2.0 mm, dy=2.0 mm; Maximum value of SAR (interpolated) = 0.005 W/kg**Belt Clip Sample 2 Antenna (Top)/Channel 3 Test/Zoom Scan (26x26x36)/Cube 0:** Interpolated grid:dx=1.6 mm, dy=1.6 mm, dz=1.0 mm; Reference Value = 1.257 V/m; **Power Drift = -0.12 dB****Averaged SAR: SAR(1g) = 0.002 W/kg; SAR(10g) = 0.001 W/kg**

Maximum value of SAR (interpolated) = 0.003 W/kg



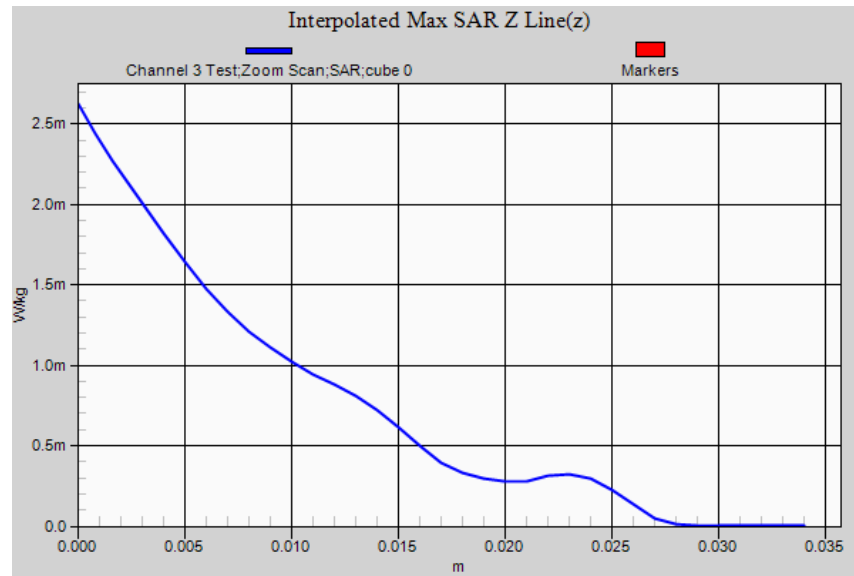
0 dB = 0.00468 W/kg = -23.30 dBW/kg

SAR Measurement Plot 2



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.

Test Lab: EMCTech

Test File: M160204 Personell PROD1060-2 Tag 920 MHz 3G FCC.da52:2

DUT Name: Dipole 900 MHz, Type: DV900V2, Serial: 047**Configuration: System Check**

Communication System: 0 - CW 900 MHz; Communication System Band: **900 MHz**; Frequency: 900.0 MHz; Communication System PAR: 0.00 dB; PMF: 1.00; Duty Cycle: 1:1.00
 Medium Parameters used: $f=900$ MHz; $\sigma = 1.05$ S/m; $\epsilon_r = 53.9$; $\rho = 1000.0$ g/cm³
 Phantom section: Flat Section

DASY Configuration:

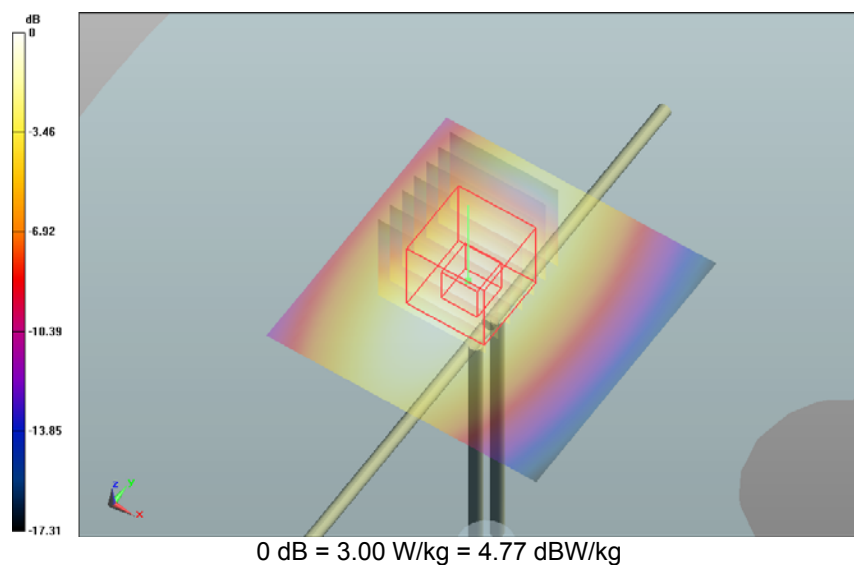
Probe: ET3DV6 - SN1380; ConvF: (6.2,6.2,6.2); Calibrated: 8/12/2016;
 Sensor-Surface: 4 mm (Mechanical Surface Detection)
 Electronics: DAE3 Sn442; Calibrated: 6/12/2016
 Phantom: SAM 12; Type: SAM 12; Serial: 1060
 DASY52 52.8.8(1258); SEMCAD X Version 14.6.10 (7373)

System Check/Channel 1 Test/Area Scan (51x51x1): Interpolated grid: dx=1.5 mm, dy=1.5 mm; Maximum value of SAR (interpolated) = 3.000 W/kg

System Check/Channel 1 Test/Zoom Scan (31x31x36)/Cube 0: Interpolated grid: dx=1.0 mm, dy=1.0 mm, dz=1.0 mm; Reference Value = 54.983 V/m; **Power Drift = -0.08 dB**

Averaged SAR: SAR(1g) = 2.720 W/kg; SAR(10g) = 1.750 W/kg

Maximum value of SAR (interpolated) = 4.010 W/kg

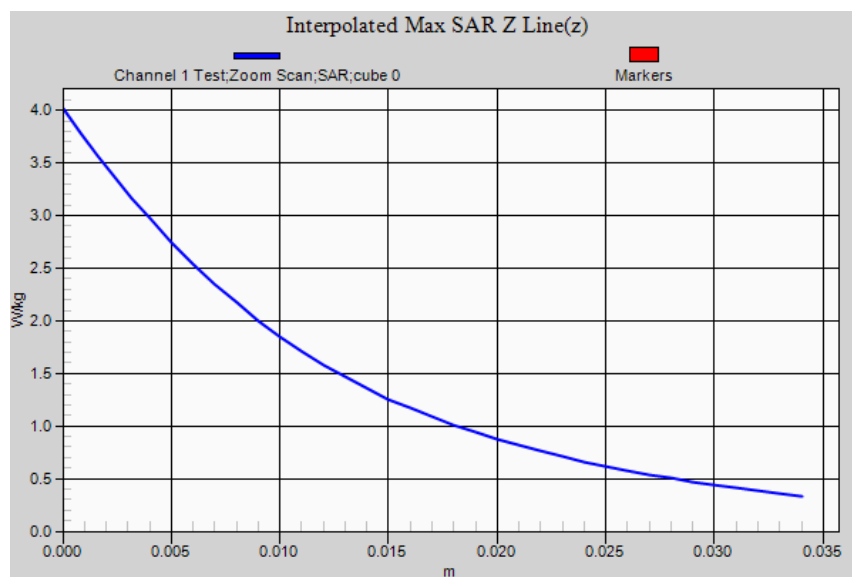


SAR Measurement Plot 3



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.



Accredited for compliance with ISO/IEC 17025. The results of the test, calibrations and/or measurement included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

This document shall not be reproduced except in full.