

**APPENDIX D**

**Z (AXIAL) MEASUREMENT: CDMA 1900 Channel 25**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1850 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH25/z (axial) rough 50 x 50/ABM Interpolated Signal(x,y,z) (51x51x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = 3.94716 dB A/m  
 BWC Factor = -0.200998 dB  
 Location: 5, -3, 363.7 mm

**Scans CH25/z (axial) 16 x 16/ABM Interpolated Signal(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = 6.04606 dB A/m  
 BWC Factor = -0.200998 dB  
 Location: 3, -1, 363.7 mm

**Point meas, TCoil on CH25/z (axial) at max z/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = 1.26751 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Point meas, TCoil on CH25/z (axial) at max z/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -47.0378 dB A/m  
 Location: 1, -1, 363.7 mm

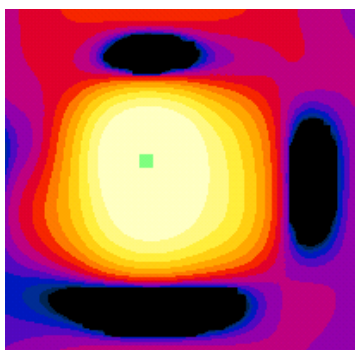
**Point meas, TCoil on CH25/z (axial) at max z/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

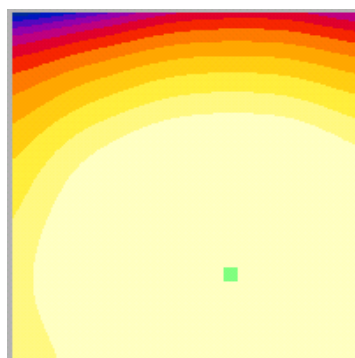
ABM1/ABM2 = 48.3053 dB  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Z (axial) rough 50x50 scan:**



0 dB = 1.00A/m

**Z (axial) 16x16 scan:**



0 dB = 1.00A/m

**X RADIAL MEASUREMENT: CDMA 1900 Channel 25**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1850 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH25/x (longitudinal) 24 x 16/ABM Interpolated Signal(x,y,z) (61x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -1.85556 dB A/m  
 BWC Factor = -0.200998 dB  
 Location: -5, -1, 363.7 mm

**Point meas,TCoil on CH25/x (longitudinal) at max x/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -7.82068 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: -7, -1, 363.7 mm

**Point meas,TCoil on CH25/x (longitudinal) at max x/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.4392 dB A/m  
 Location: -7, -1, 363.7 mm

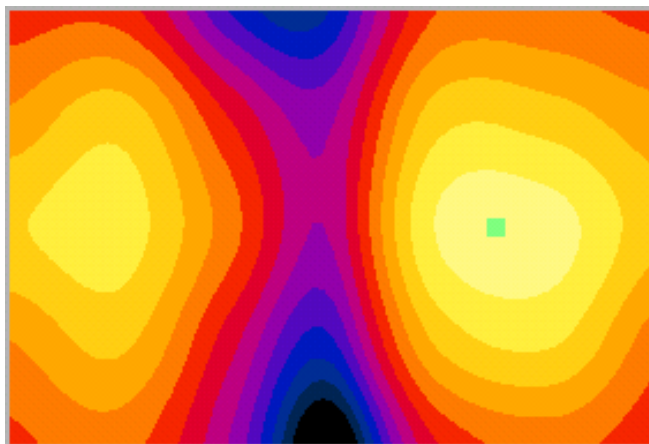
**Point meas,TCoil on CH25/x (longitudinal) at max x/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1/ABM2 = 46.6185 dB  
 BWC Factor = -0.200002 dB  
 Location: -7, -1, 363.7 mm

**X (Radial) 24x16 scan:**



0 dB = 1.00A/m

**Y RADIAL MEASUREMENT: CDMA 1900 Channel 25**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1850 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH25/y (transversal) 16 x 24/ABM Interpolated Signal(x,y,z) (41x61x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = 0.450426 dB A/m  
 BWC Factor = -0.200998 dB  
 Location: 4.6, -8.6, 363.7 mm

**Point meas,TCoil on CH25/y (transversal) at max y/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -6.3399 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 5, -9, 363.7 mm

**Point meas,TCoil on CH25/y (transversal) at max y/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.5541 dB A/m  
 Location: 5, -9, 363.7 mm

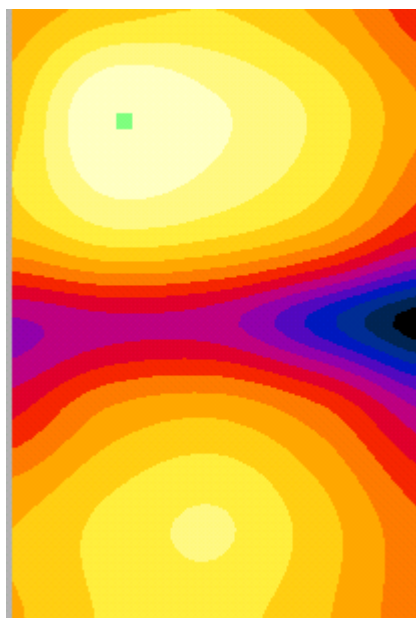
**Point meas,TCoil on CH25/y (transversal) at max y/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1/ABM2 = 48.2142 dB  
 BWC Factor = -0.200002 dB  
 Location: 5, -9, 363.7 mm

**Y (Radial) 16x24 scan:**



0 dB = 1.00A/m

**Z (AXIAL) MEASUREMENT: CDMA 1900 Channel 600**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH600/z (axial) rough 50 x 50/ABM Interpolated Signal(x,y,z) (51x51x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -0.510082 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 5, -3, 363.7 mm

**Scans CH600/z (axial) 16 x 16/ABM Interpolated Signal(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = 1.77963 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 2.2, -1, 363.7 mm

**Point meas,TCoil on CH600/z (axial) at max z/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = 2.17136 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Point meas,TCoil on CH600/z (axial) at max z/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -47.173 dB A/m  
 Location: 1, -1, 363.7 mm

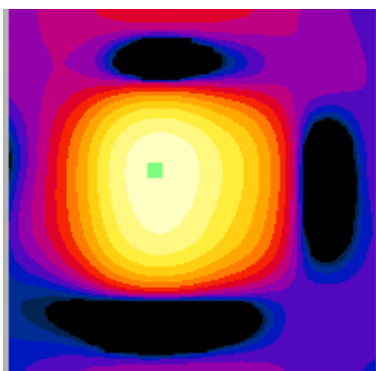
**Point meas,TCoil on CH600/z (axial) at max z/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

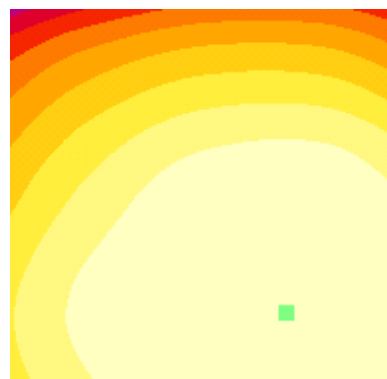
ABM1/ABM2 = 49.3444 dB  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Z (axial) rough 50x50 scan:**



0 dB = 1.00A/m

**Z (axial) 16x16scan:**



0 dB = 1.00A/m

**X RADIAL MEASUREMENT: CDMA 1900 Channel 600**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH600/x (longitudinal) 24 x 16/ABM Interpolated Signal(x,y,z) (61x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -6.6952 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: -6.2, -1.8, 363.7 mm

**Point meas, TCoil on CH600/x (longitudinal) at max x/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -7.09988 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: -7, -1, 363.7 mm

**Point meas, TCoil on CH600/x (longitudinal) at max x/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.5058 dB A/m  
 Location: -7, -1, 363.7 mm

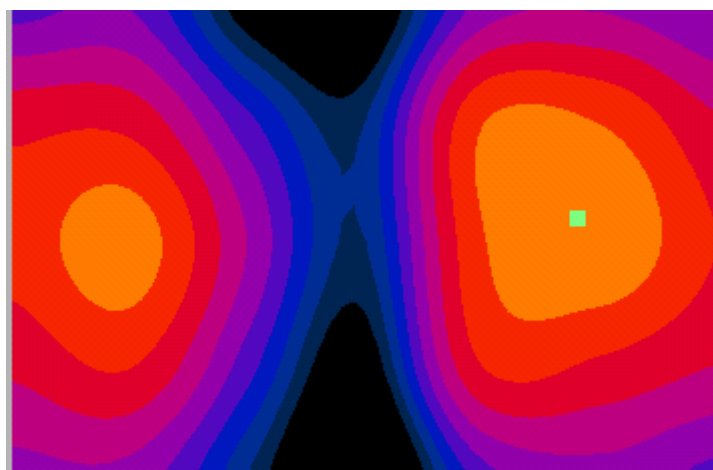
**Point meas, TCoil on CH600/x (longitudinal) at max x/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1/ABM2 = 47.4059 dB  
 BWC Factor = -0.200002 dB  
 Location: -7, -1, 363.7 mm

**X (Radial) 24x16 scan:**



0 dB = 1.00A/m

**Y RADIAL MEASUREMENT: CDMA 1900 Channel 600**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH600/y (transversal) 16 x 24/ABM Interpolated Signal(x,y,z) (41x61x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -4.93487 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 4.2, -6.6, 363.7 mm

**Point meas, TCoil on CH600/y (transversal) at max y/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -5.90595 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 5, -9, 363.7 mm

**Point meas, TCoil on CH600/y (transversal) at max y/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.5908 dB A/m  
 Location: 5, -9, 363.7 mm

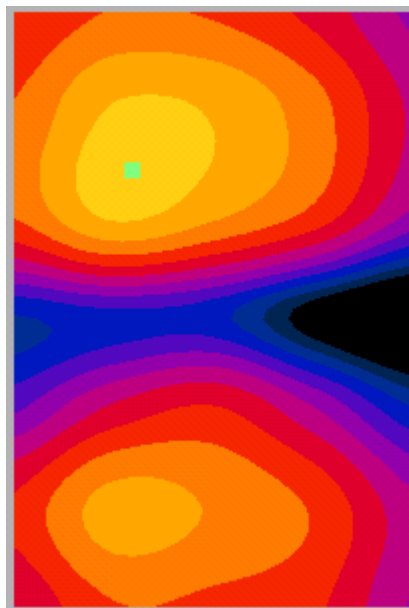
**Point meas, TCoil on CH600/y (transversal) at max y/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1/ABM2 = 48.6849 dB  
 BWC Factor = -0.200002 dB  
 Location: 5, -9, 363.7 mm

**Y (Radial) 16x24 scan:**



0 dB = 1.00A/m

**Z (AXIAL) MEASUREMENT: CDMA 1900 Channel 1175**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381;**  
 Communication System: CDMA; Frequency: 1910 MHz; Duty Cycle: 1:1  
 Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: AMB with Coil Section

**Date: 04/17/08**

**DASY4 Configuration:**

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH1175/z (axial) rough 50 x 50/ABM Interpolated Signal(x,y,z) (51x51x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -0.419713 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 5, -3, 363.7 mm

**Scans CH1175/z (axial) 16 x 16/ABM Interpolated Signal(x,y,z) (41x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = 2.31918 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 2.6, -1, 363.7 mm

**Point meas, TCoil on CH1175/z (axial) at max z/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = 1.46717 dB A/m  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Point meas, TCoil on CH1175/z (axial) at max z/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -46.1385 dB A/m  
 Location: 1, -1, 363.7 mm

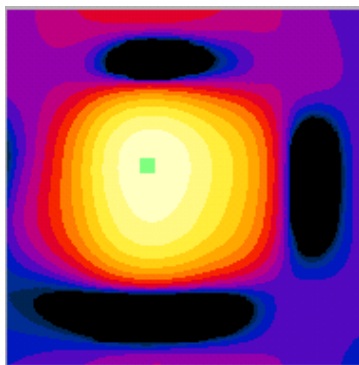
**Point meas, TCoil on CH1175/z (axial) at max z/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

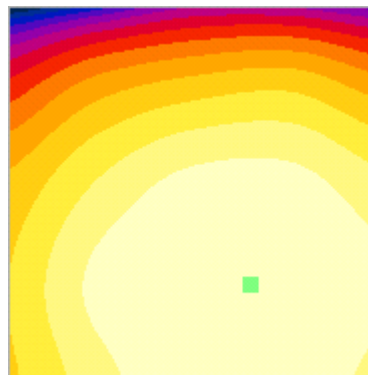
ABM1/ABM2 = 47.6057 dB  
 BWC Factor = -0.200002 dB  
 Location: 1, -1, 363.7 mm

**Z (axial) rough 50x50 scan:**



0 dB = 1.00A/m

**Z (axial) 16x16 scan:**



0 dB = 1.00A/m

**X RADIAL MEASUREMENT: CDMA 1900 Channel 1175**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381; Date: 04/17/08**

Communication System: CDMA; Frequency: 1910 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH1175/x (longitudinal) 24 x 16/ABM Interpolated Signal(x,y,z) (61x41x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -6.70965 dB A/m

BWC Factor = -0.200002 dB

Location: -4.6, -1.8, 363.7 mm

**Point meas,TCoil on CH1175/x (longitudinal) at max x/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -9.35777 dB A/m

BWC Factor = -0.200002 dB

Location: 9, 3, 363.7 mm

**Point meas,TCoil on CH1175/x (longitudinal) at max x/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.8961 dB A/m

Location: 9, 3, 363.7 mm

**Point meas,TCoil on CH1175/x (longitudinal) at max x/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

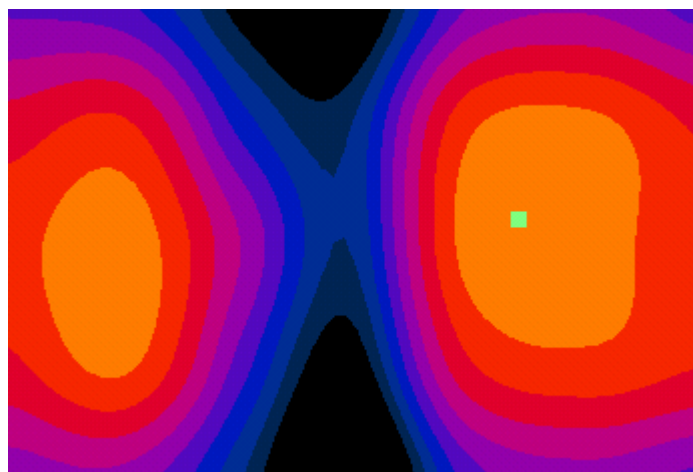
**Cursor:**

ABM1/ABM2 = 45.5383 dB

BWC Factor = -0.200002 dB

Location: 9, 3, 363.7 mm

**X (Radial) 24x16 scan:**



0 dB = 1.00A/m



**Y RADIAL MEASUREMENT: CDMA 1900 Channel 1175**

**Equipment Setting:**

**DUT: S2000I; Type: Cellular Phone ; Serial Number: 2381; Date: 04/17/08**

Communication System: CDMA; Frequency: 1910 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1045; ; Calibrated: 9/19/2007
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn603; Calibrated: 10/15/2007
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Scans CH1175/y (transversal) 16 x 24/ABM**

**Interpolated Signal(x,y,z) (41x61x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 = -5.25123 dB A/m

BWC Factor = -0.200002 dB

Location: 3.8, -7.4, 363.7 mm

**Point meas,TCoil on CH1175/y (transversal) at max y/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM1 comp = -5.60189 dB A/m

BWC Factor = -0.200002 dB

Location: 5, -9, 363.7 mm

**Point meas,TCoil on CH1175/y (transversal) at max y/ABM Noise(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

**Cursor:**

ABM2 = -54.3782 dB A/m

Location: 5, -9, 363.7 mm

**Point meas,TCoil on CH1175/y (transversal) at max y/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm

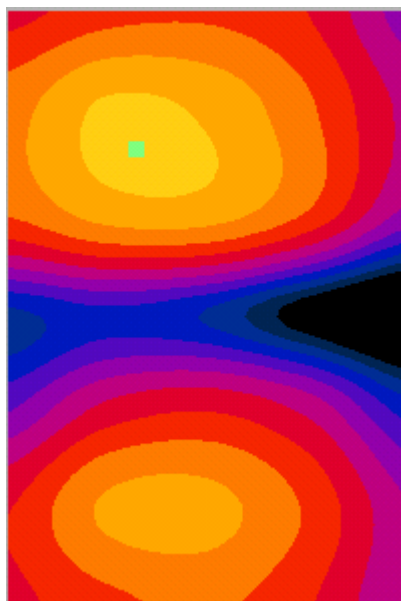
**Cursor:**

ABM1/ABM2 = 48.7763 dB

BWC Factor = -0.200002 dB

Location: 5, -9, 363.7 mm

**Y (Radial) 16x24 scan:**



0 dB = 1.00A/m