

SAR Test Report No.:

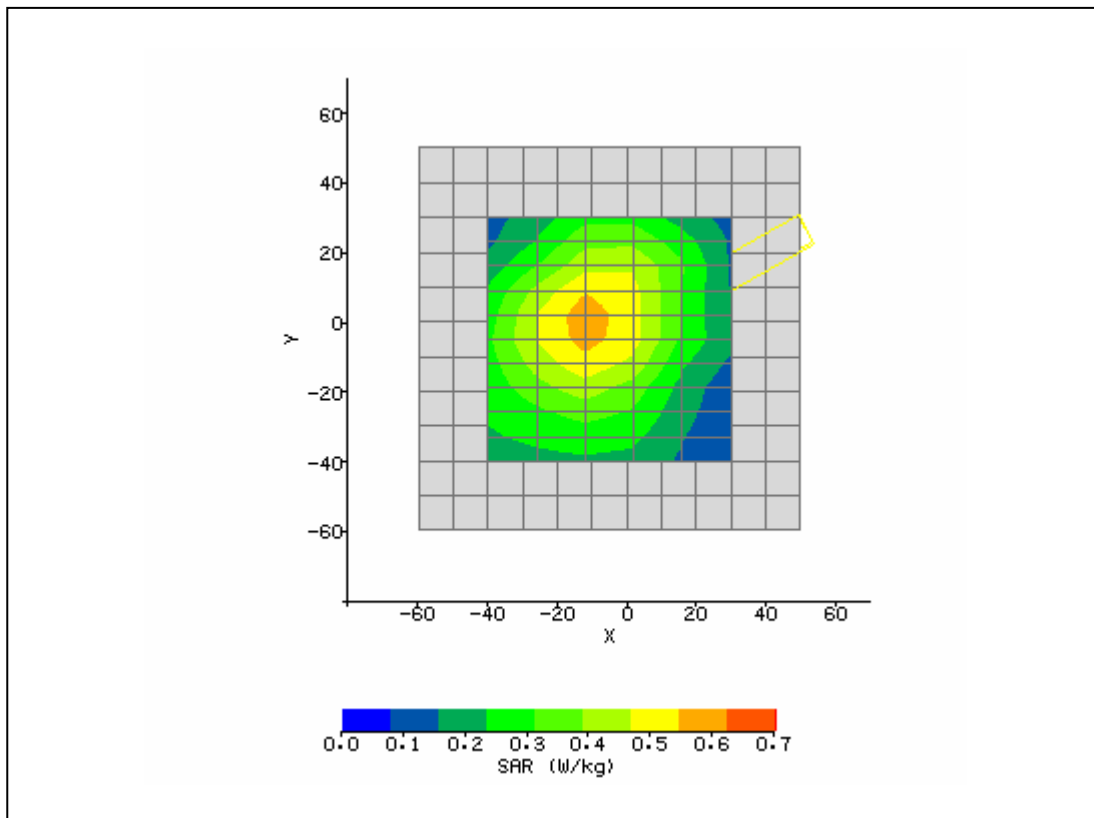
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

Date of Report: 09/18/2007

Appendix A Plots

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 8:55:15 AM	DUT Battery Model/No:	
Filename:	Lap_1175_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725	Relative Permittivity:	56.55
Relative Humidity:	30%	Conductivity:	0.979
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-10.60 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-0.10 mm
Antenna Configuration:	Integral	Max E Field:	24.77 V/m
Test Frequency:	824.7MHz	SAR 1g:	0.745 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.209 W/kg
Type of Modulation:		SAR End:	0.213 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	1.91 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



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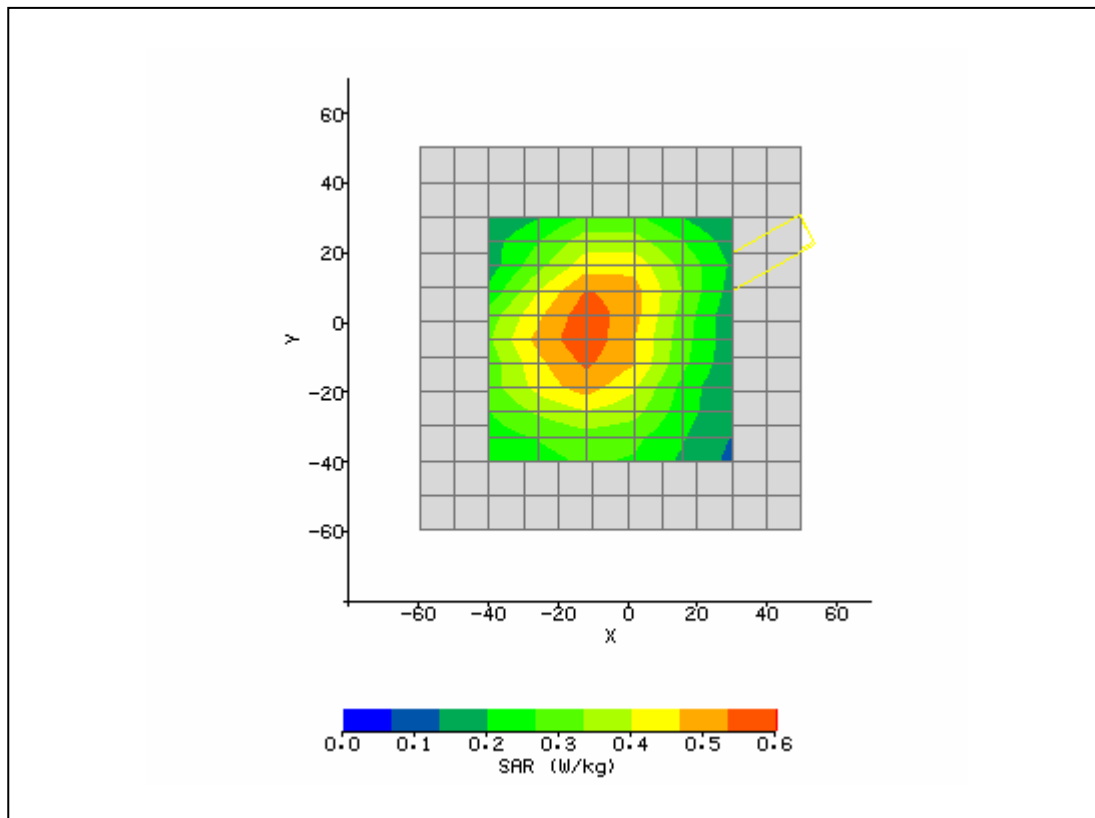
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 9:08:31 AM	DUT Battery Model/No:	
Filename:	Lap_1013_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725	Relative Permittivity:	56.12
Relative Humidity:	30%	Conductivity:	0.982
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-12.00 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-2.90 mm
Antenna Configuration:	Integral	Max E Field:	24.66 V/m
Test Frequency:	836.52MHz	SAR 1g:	0.708 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.207 W/kg
Type of Modulation:		SAR End:	0.211 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	1.79 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



SAR Test Report No.:

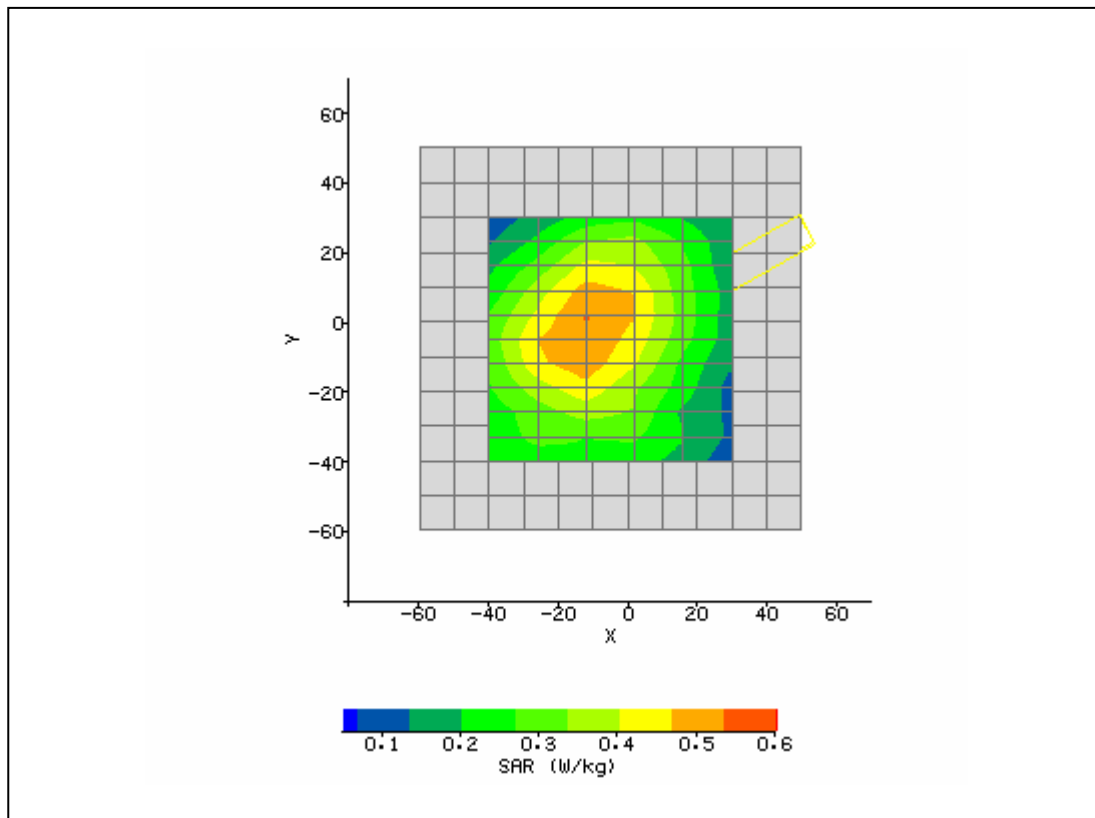
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 9:22:29 AM	DUT Battery Model/No:	
Filename:	Lap_384_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725	Relative Permittivity:	55.87
Relative Humidity:	30%	Conductivity:	0.987
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-10.60 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-0.10 mm
Antenna Configuration:	Integral	Max E Field:	23.84 V/m
Test Frequency:	848.31MHz	SAR 1g:	0.704 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.194 W/kg
Type of Modulation:		SAR End:	0.198 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.07 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



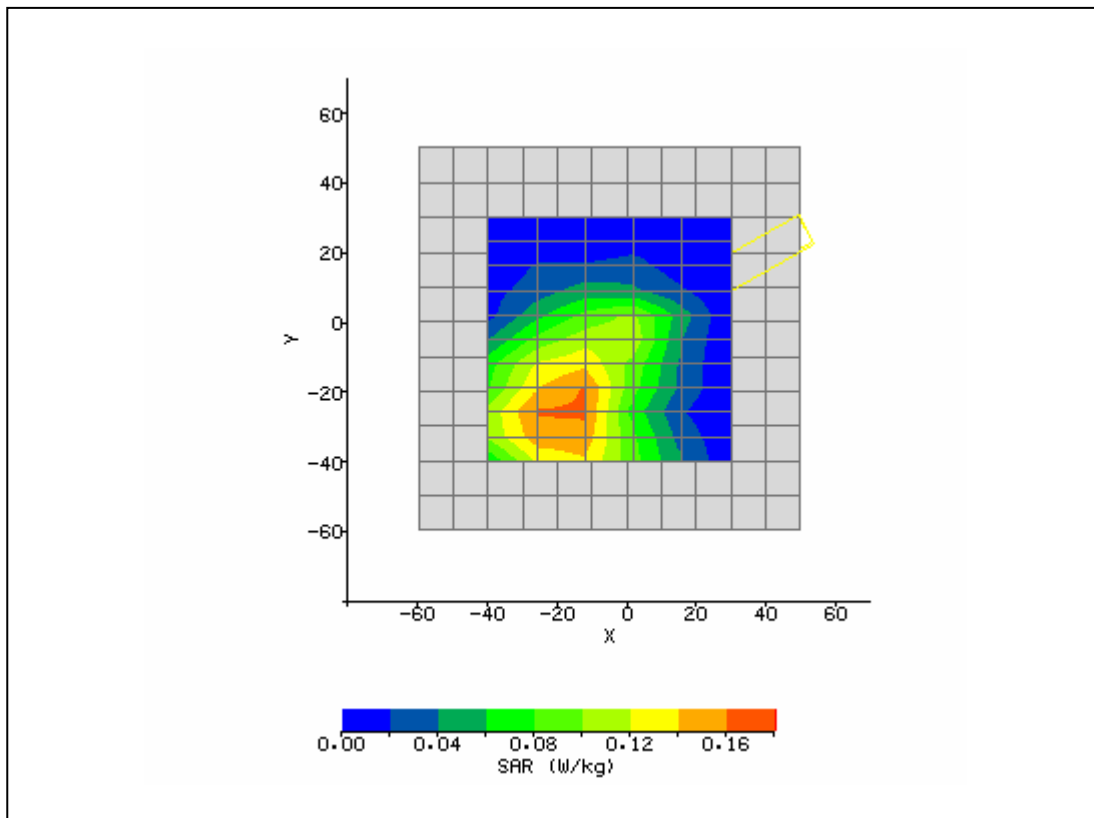
SAR Test Report No.:

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Date of Report: 09/18/2007

Appendix A Plots

System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 8:05:25 AM	DUT Battery Model/No:	
Filename:	temp.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	1900
Device Under Test:	Optimator – MC5725	Relative Permittivity:	50.20
Relative Humidity:	30%	Conductivity:	1.568
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-19.00 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-26.70 mm
Antenna Configuration:	Integral	Max E Field:	10.37 V/m
Test Frequency:	1851.25MHz	SAR 1g:	0.243 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.489 / .489 / .489	SAR Start:	0.022 W/kg
Type of Modulation:		SAR End:	0.023 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	4.55 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



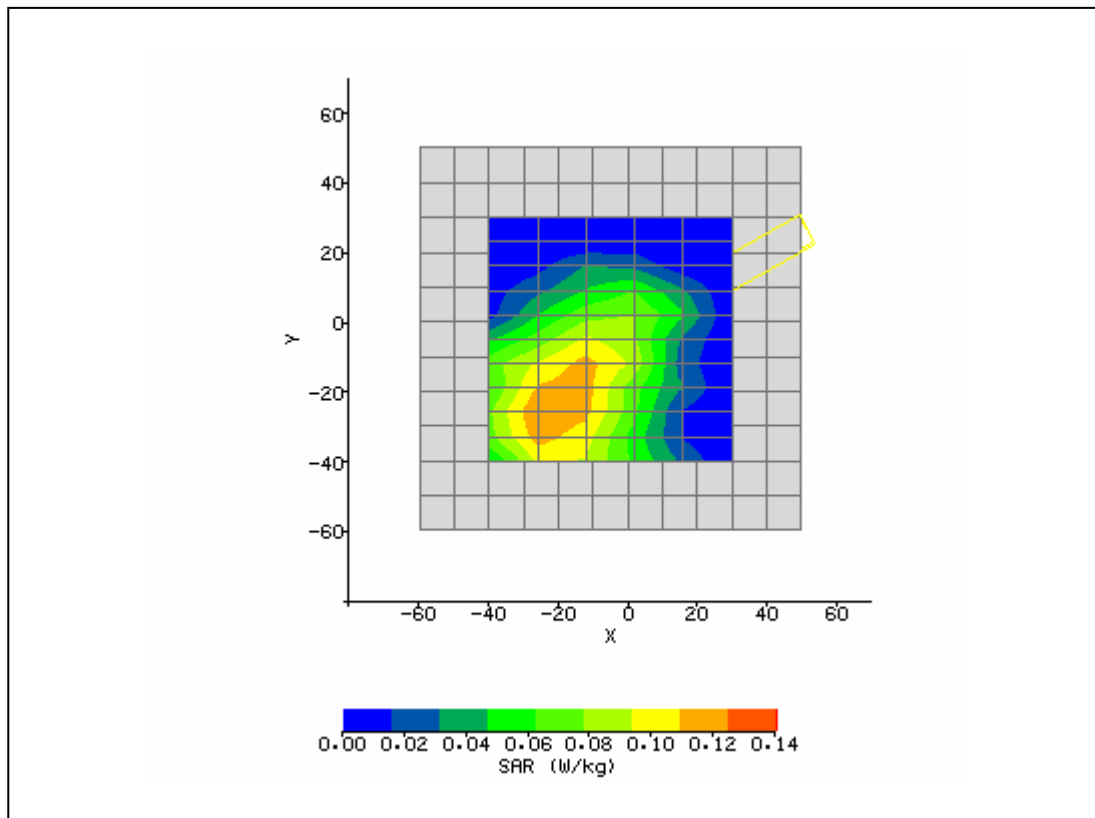
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SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 8:19:14 AM	DUT Battery Model/No:	
Filename:	Lap_25_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	1900
Device Under Test:	Optimator - MC5725	Relative Permittivity:	51.75
Relative Humidity:	30%	Conductivity:	1.57
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-19.00 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-24.60 mm
Antenna Configuration:	Integral	Max E Field:	9.07 V/m
Test Frequency:	1880MHz	SAR 1g:	0.176 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.489 / .489 / .489	SAR Start:	0.011 W/kg
Type of Modulation:		SAR End:	0.010 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	-4.99 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



SAR Test Report No.:

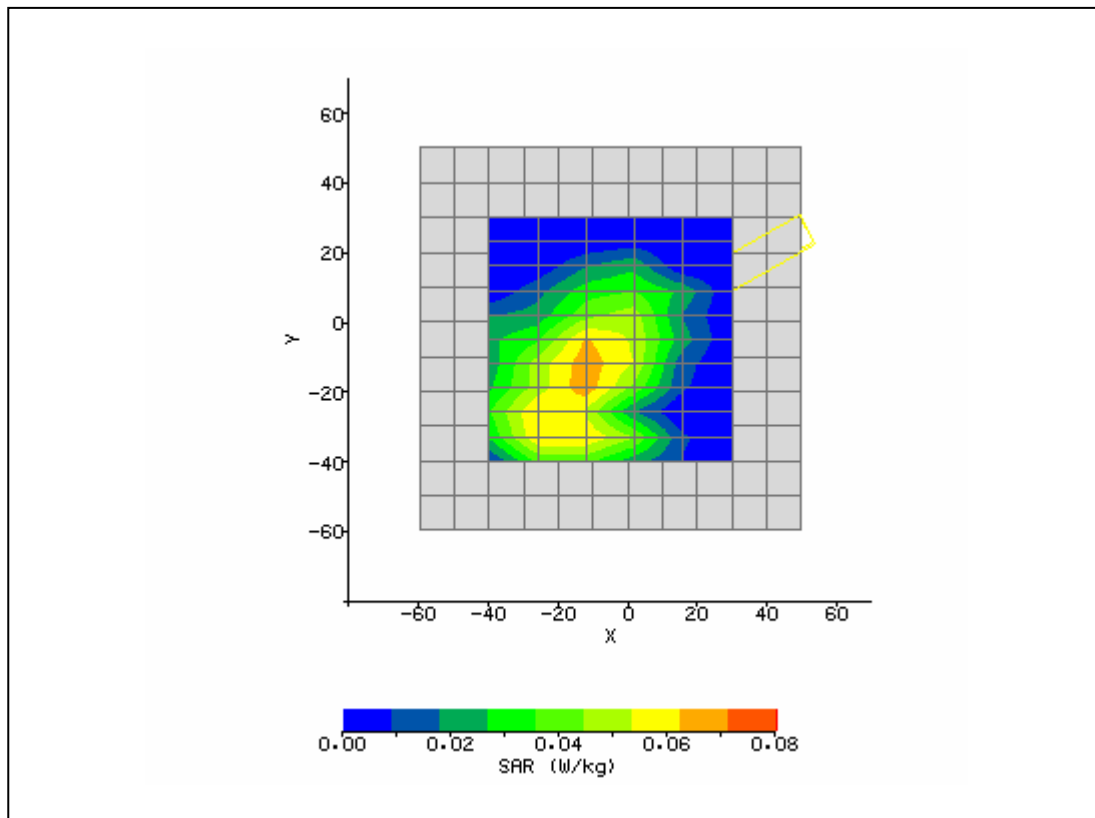
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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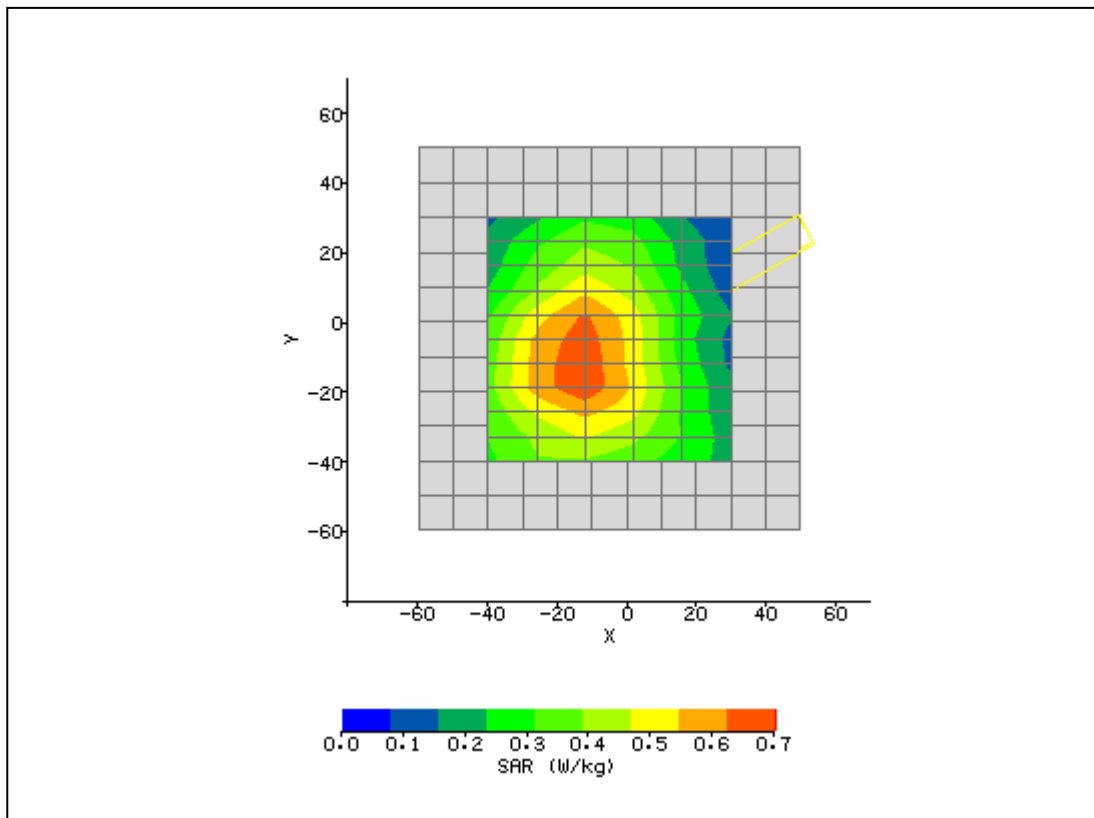
Appendix A Plots

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 8:32:15 AM	DUT Battery Model/No:	
Filename:	Lap_600_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	1900
Device Under Test:	Optimator - MC5725	Relative Permittivity:	53.62
Relative Humidity:	30%	Conductivity:	1.578
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-12.00 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-14.10 mm
Antenna Configuration:	Integral	Max E Field:	6.91 V/m
Test Frequency:	1908.75MHz	SAR 1g:	0.118 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.489 / .489 / .489	SAR Start:	0.005 W/kg
Type of Modulation:		SAR End:	0.005 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	3.12 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 10:39:10 AM	DUT Battery Model/No:	
Filename:	Lap_1013_149a_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725 – Kedron AGN	Relative Permittivity:	56.55
Relative Humidity:	30%	Conductivity:	0.979
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-13.40 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-14.10 mm
Antenna Configuration:	Integral	Max E Field:	26.74 V/m
Test Frequency:	824.7/2412MHz	SAR 1g:	0.849 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.239 W/kg
Type of Modulation:		SAR End:	0.245 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.52 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



SAR Test Report No.:

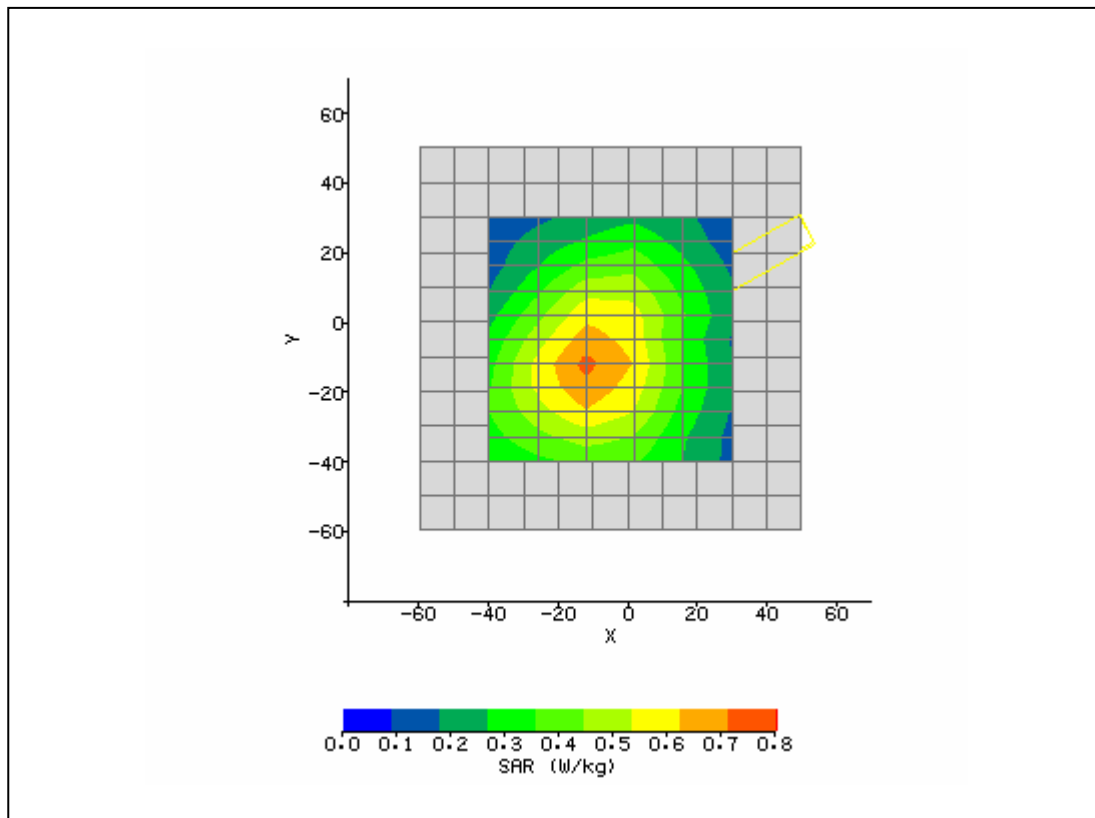
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 9:47:36 AM	DUT Battery Model/No:	
Filename:	Lap_777_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725 – Kedron AG	Relative Permittivity:	56.55
Relative Humidity:	30%	Conductivity:	0.979
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-10.60 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	-12.70 mm
Antenna Configuration:	Integral	Max E Field:	27.11 V/m
Test Frequency:	824.7/5180MHz	SAR 1g:	0.853 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.248 W/kg
Type of Modulation:		SAR End:	0.255 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.82 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



SAR Test Report No.:

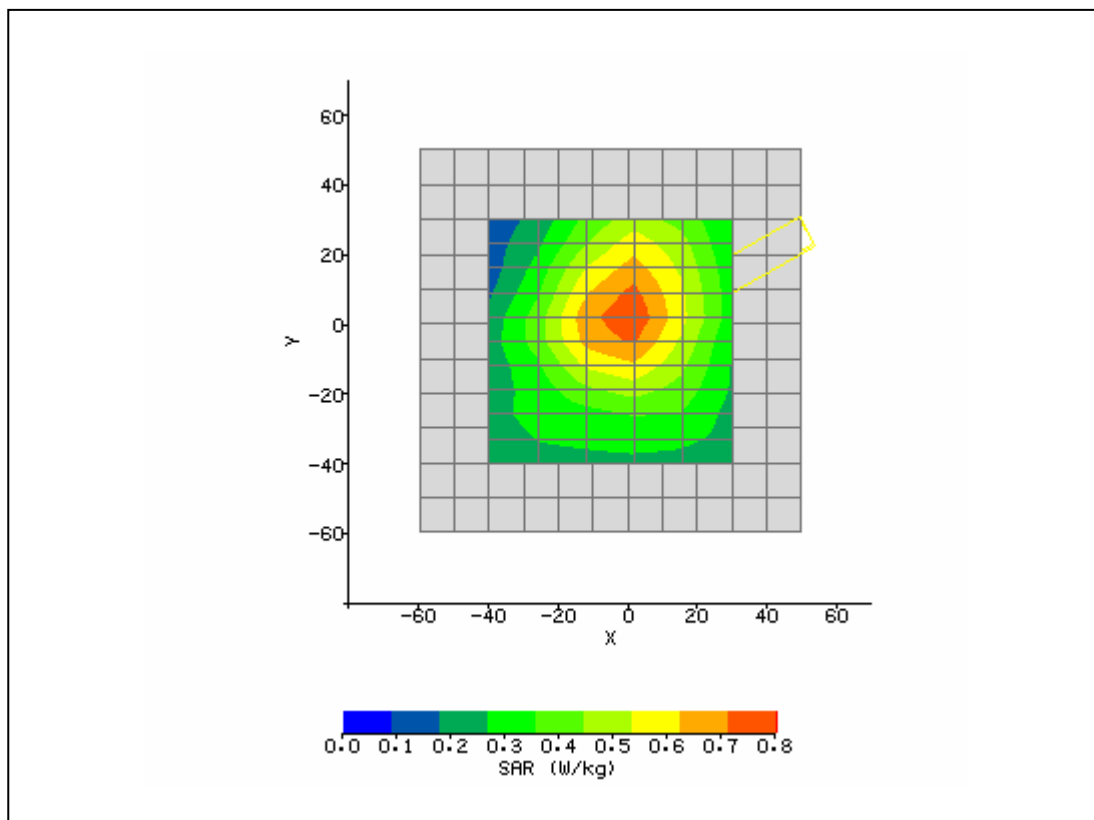
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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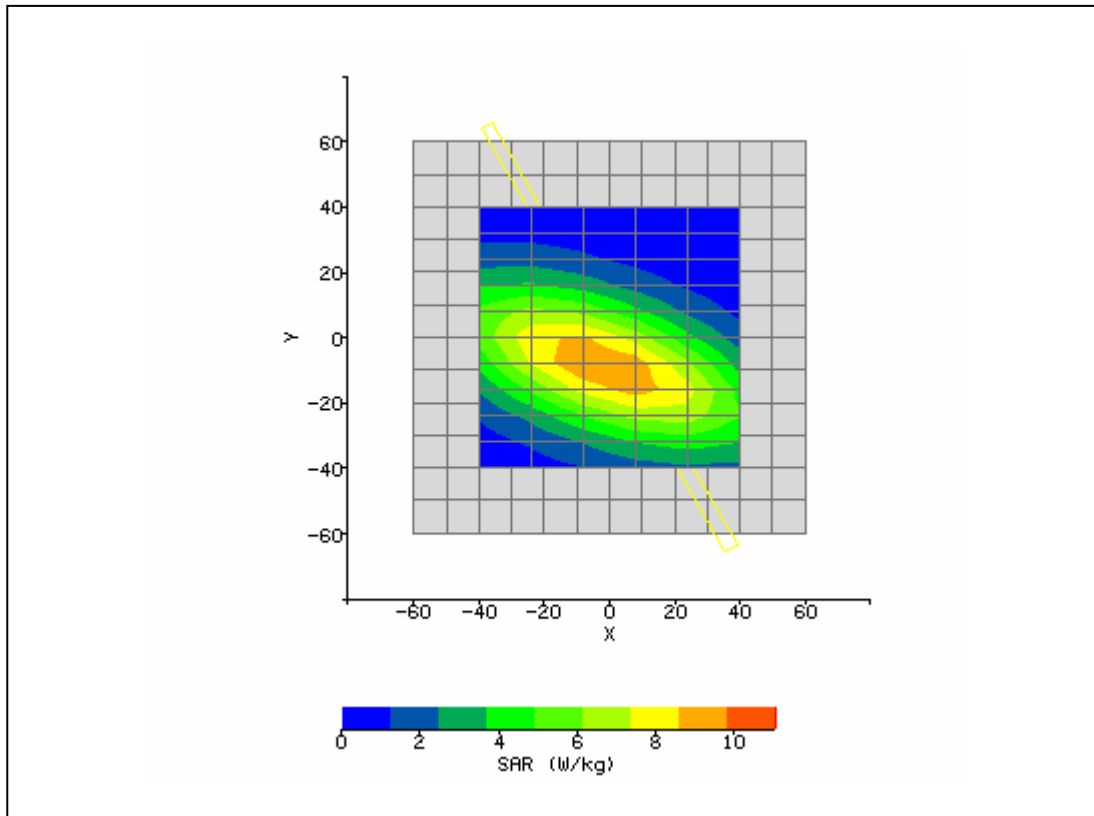
Appendix A Plots

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 10:03:07 AM	DUT Battery Model/No:	
Filename:	Lap_1013_36a_3d.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Optimator - MC5725 – Kedron AG	Relative Permittivity:	56.55
Relative Humidity:	30%	Conductivity:	0.979
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-0.80 mm
DUT Position:	Lap 0mm	Max SAR Y-axis Location:	2.00 mm
Antenna Configuration:	Integral	Max E Field:	27.96 V/m
Test Frequency:	824.7/5745MHz	SAR 1g:	0.949 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	
Conversion Factors:	.355 / .355 / .355	SAR Start:	0.262 W/kg
Type of Modulation:		SAR End:	0.269 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	2.69 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	max	Extrapolation:	poly4



System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 08:18:18 AM	DUT Battery Model/No:	
Filename:	temp.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	850
Device Under Test:	Probe	Relative Permittivity:	41.87
Relative Humidity:	30%	Conductivity:	0.948
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-1.60 mm
DUT Position:	8mm.	Max SAR Y-axis Location:	-8.80 mm
Antenna Configuration:	835 Dipole	Max E Field:	103.35 V/m
Test Frequency:	835MHz	SAR 1g:	11.386 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	7.699 W/kg
Conversion Factors:	.360 / .360 / .360	SAR Start:	2.480 W/kg
Type of Modulation:		SAR End:	2.515 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	1.42 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/24/2007
Input Power Level:	1W	Extrapolation:	poly4



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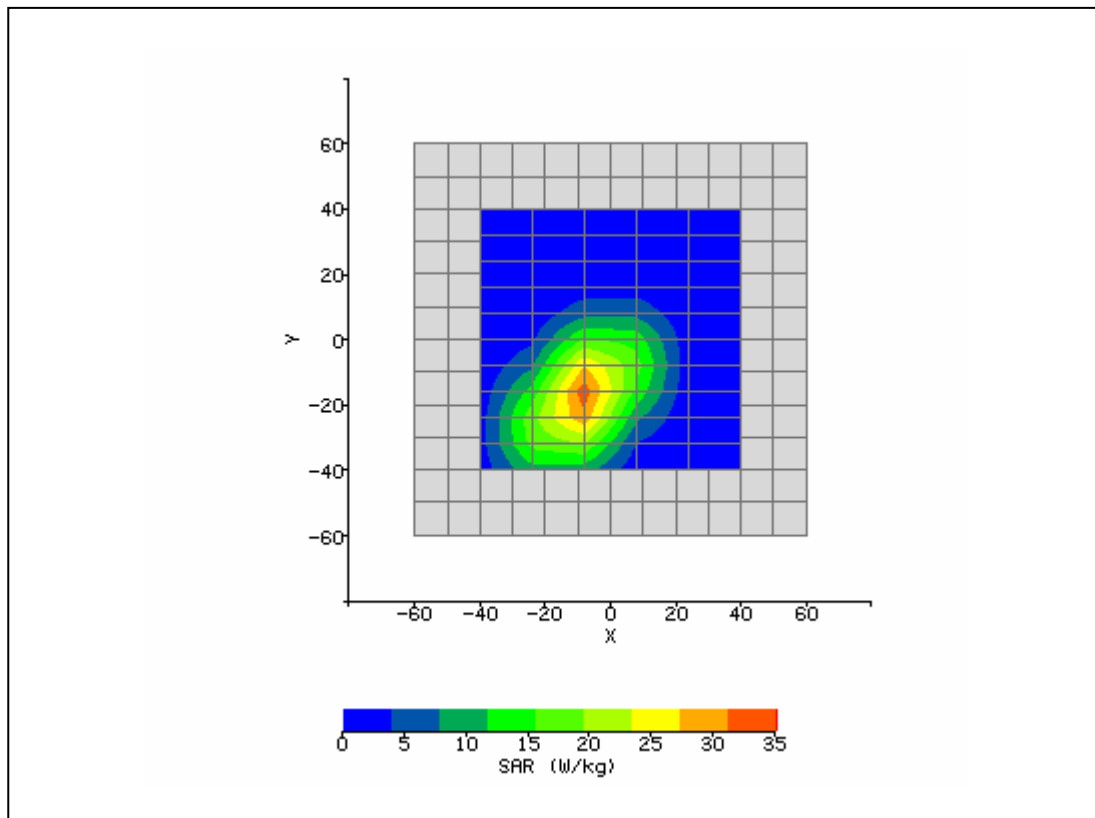
SAR_HEWL4_020_07002_Optimator_CDMA_FCCver2

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System / software:	SARA2 / 2.40 VPM	Input Power Drift:	
Date / Time:	7/26/2007 2:06:38 PM	DUT Battery Model/No:	
Filename:	temp.txt	Probe Serial Number:	M0024
Ambient Temperature:	22.8°C	Liquid Simulant:	1900
Device Under Test:	Probe	Relative Permittivity:	41.29
Relative Humidity:	30%	Conductivity:	1.4
Phantom S/No:	HeadBox2.csv	Liquid Temperature:	22.0°C
Phantom Rotation:	0°	Max SAR X-axis Location:	-8.00 mm
DUT Position:	8mm.	Max SAR Y-axis Location:	-17.60 mm
Antenna Configuration:	1900 Dipole	Max E Field:	155.43 V/m
Test Frequency:	1900MHz	SAR 1g:	39.173 W/kg
Air Factors:	2685 / 2277 / 2238	SAR 10g:	20.991 W/kg
Conversion Factors:	.501 / .501 / .501	SAR Start:	4.952 W/kg
Type of Modulation:		SAR End:	5.045 W/kg
Modn. Duty Cycle:		SAR Drift during Scan:	1.90 %
Diode Compression Factors (V*200):	20 / 20 / 20	Probe battery last changed:	07/26/2007
Input Power Level:	1W	Extrapolation:	poly4





The plot above is showing the area scan of the SAR measurement in lap position (Plot 1, page 1), centered over the transmitting WWAN Antenna.