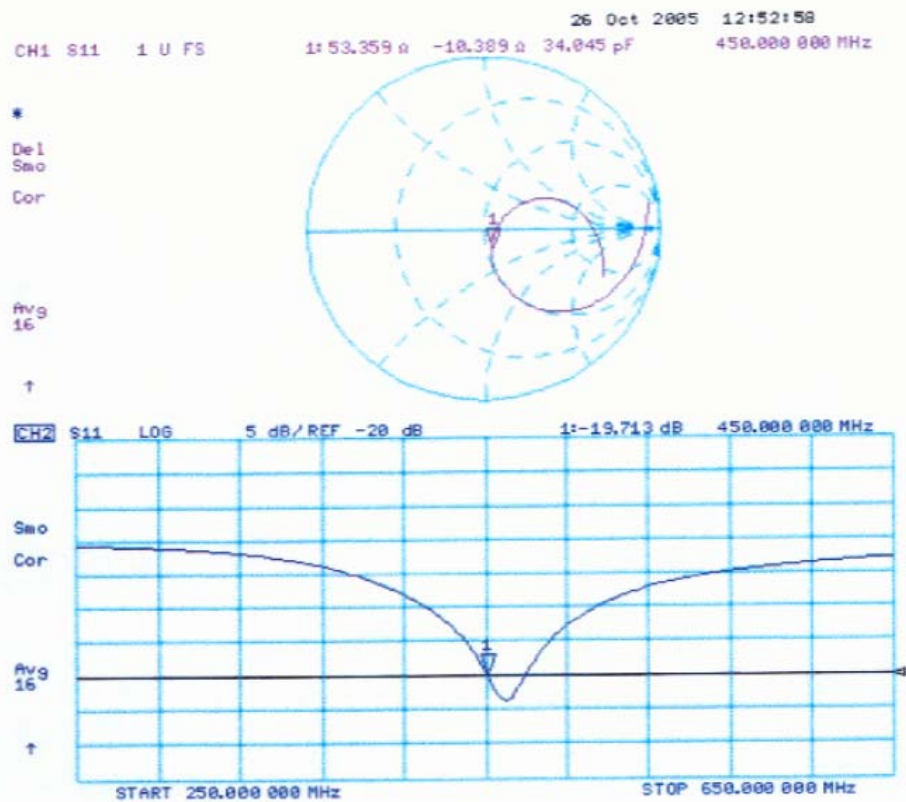


Impedance Measurement Plot for Head TSL



APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS

Liquid Measurement Result

2006-04-11

Simulant	Freq [MHz]	Parameters	Liquid Temp [°C]	Target Value	Measured Value	Deviation [%]	Limits [%]
Body	450	ϵ	22	58.7	57.3	-2.39	± 5
		σ	22	0.94	0.95	1.06	± 5
		1g SAR	22	4.874	4.68	-3.98	± 10
Head	450	ϵ	22	43.5	43.0	-1.61	± 5
		σ	22	0.87	0.86	-1.15	± 5
		1g SAR	22	4.9	5.12	4.49	± 10

ϵ_r = relative permittivity, σ = conductivity and $\rho=1000\text{kg/m}^3$

Test Laboratory: Bay Area Compliance Lab Corp.(BACL)

System Validation for Body da4

DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2 -

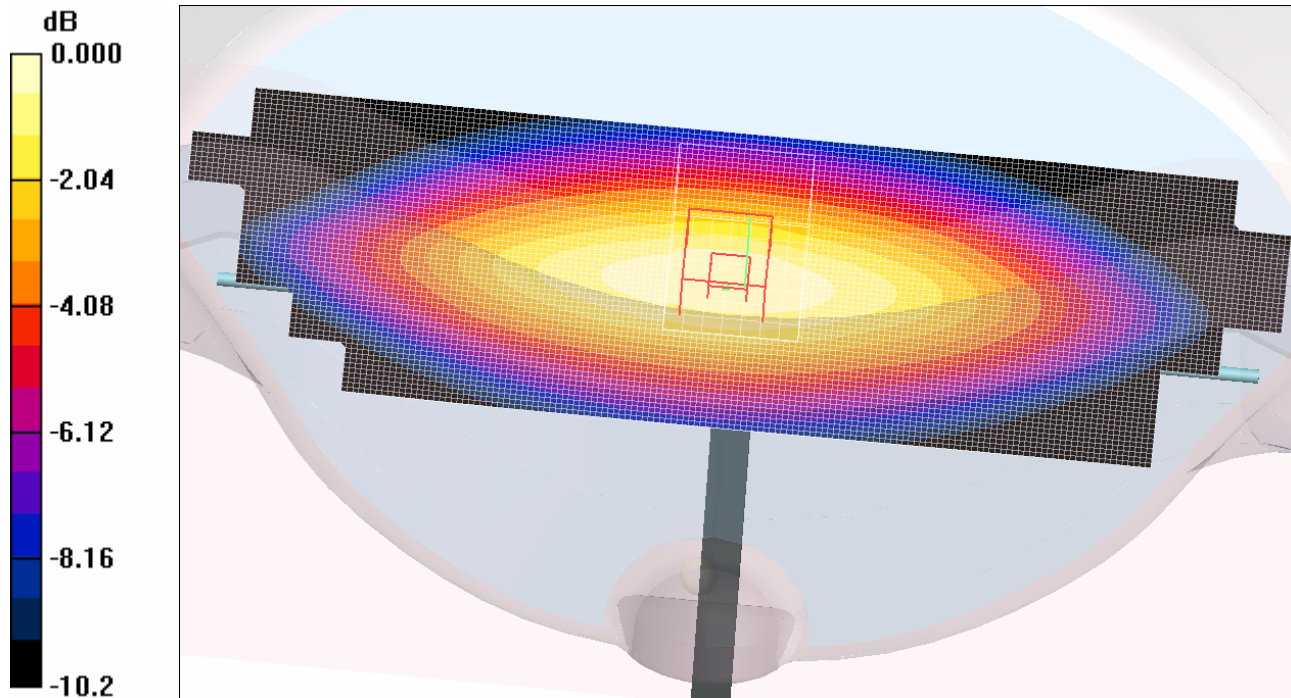
Communication System: CW; Frequency: 450 MHz;Duty Cycle: 1:1
 Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 57.3$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(7.54, 7.54, 7.54); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 10/18/2005
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=1W/Area Scan (61x201x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 4.97 mW/g

d=15mm, Pin=1W/Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 71.9 V/m; Power Drift = -0.013 dB
 Peak SAR (extrapolated) = 7.37 W/kg
SAR(1 g) = 4.68 mW/g; SAR(10 g) = 3.17 mW/g
 Maximum value of SAR (measured) = 4.95 mW/g



0 dB = 4.95mW/g

Test Laboratory: Bay Area Compliance Lab Corp.(BACL)

System Validation for Head

DUT: Dipole 450 MHz; Type: D450V2; Serial: D450V2

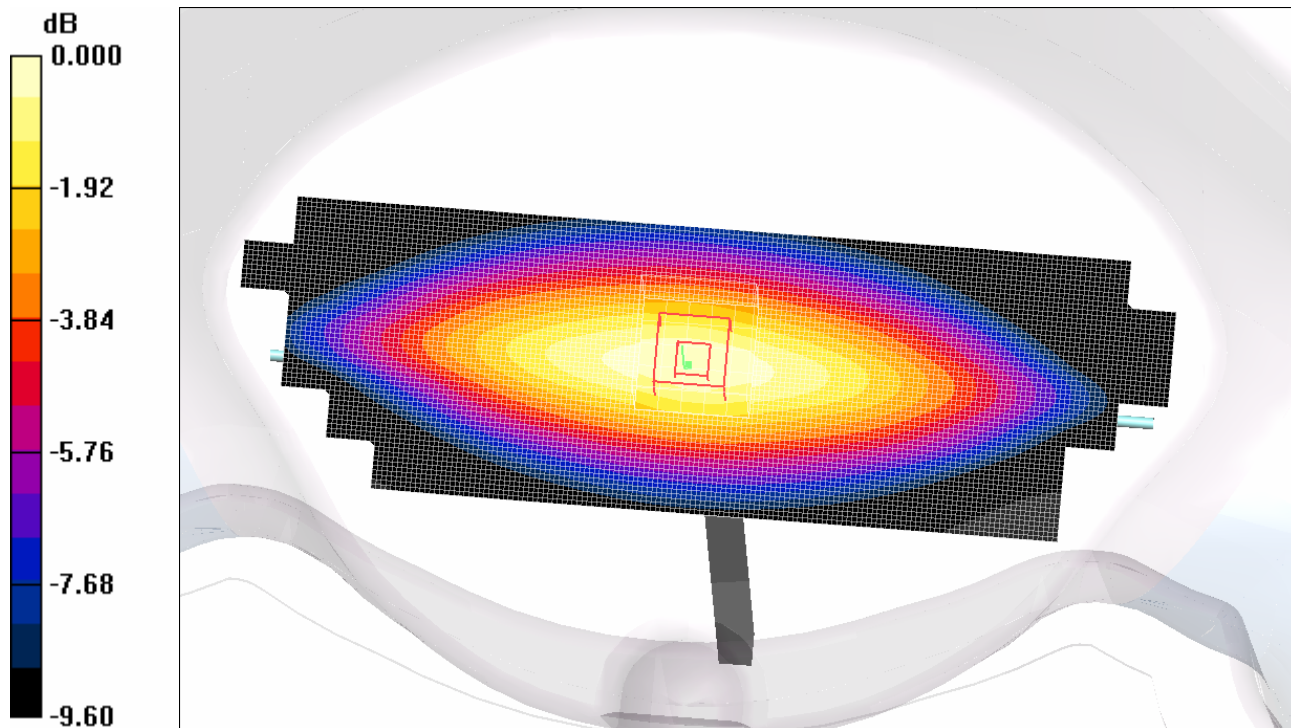
Communication System: CW; Frequency: 450 MHz;Duty Cycle: 1:1
 Medium parameters used: $f = 450 \text{ MHz}$; $\sigma = 0.86 \text{ mho/m}$; $\epsilon_r = 43$; $\rho = 1000 \text{ kg/m}^3$
 Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(8.1, 8.1, 8.1); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 10/18/2005
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

d=15mm, Pin=1W/Area Scan (61x201x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
 Maximum value of SAR (interpolated) = 5.31 mW/g

d=15mm, Pin=1W/Zoom Scan (5x5x5)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
 Reference Value = 78.5 V/m; Power Drift = -0.001 dB
 Peak SAR (extrapolated) = 8.81 W/kg
SAR(1 g) = 5.12 mW/g; SAR(10 g) = 3.33 mW/g
 Maximum value of SAR (measured) = 5.36 mW/g



0 dB = 5.36mW/g

APPENDIX E - EUT SCANS

Date/Time: 4/7/2006 4:28:23 PM

Test Laboratory: Bay Area Compliance Lab Corp.(BACL)**Body worn****DUT: Qixiang 3308; Type: 2 Way Radio; Serial: 0603A0778**

Communication System: FM; Frequency: 420.125 MHz;Duty Cycle: 1:1

Medium parameters used: $f = 420.125$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 57.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(7.54, 7.54, 7.54); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 10/18/2005
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Body Worn/Area Scan : Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 7.00 mW/g

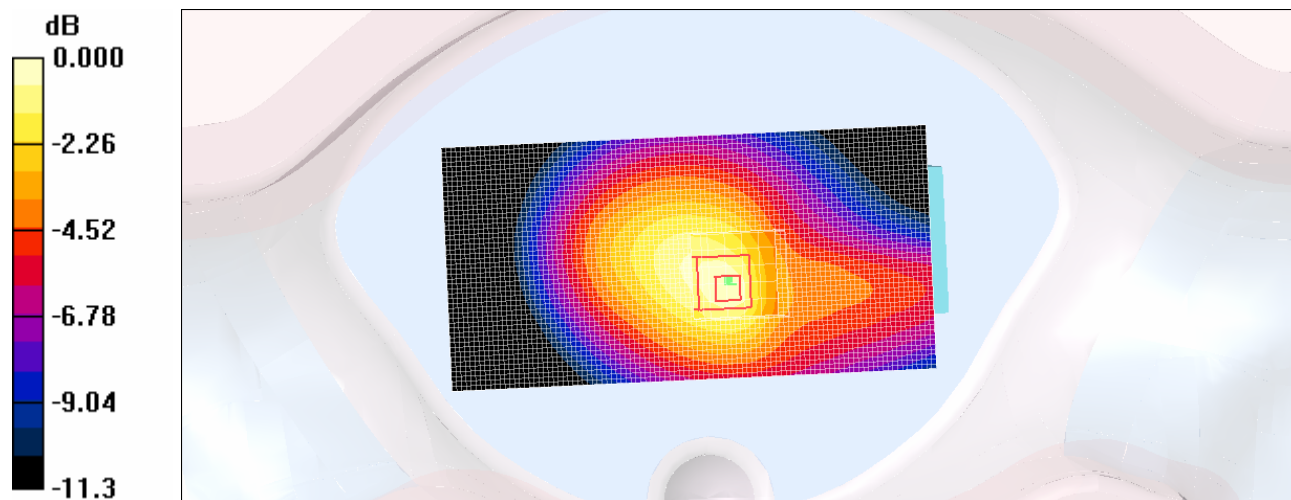
Body Worn/Zoom Scan (5x5x58)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 73.9 V/m; Power Drift = 0.095dB

Peak SAR (extrapolated) = 10.9 W/kg

SAR(1 g) = 5.75 mW/g; SAR(10 g) = 3.67 mW/g

Maximum value of SAR (measured) = 6.11 mW/g



0 dB = 6.11mW/g

Plot #1

Date/Time: 4/7/2006 3:47:31 PM

Test Laboratory: Bay Area Compliance Lab Corp.(BACL)**Face_2.5cm****DUT: Qixiang 3308; Type: 2 Way radio; Serial: 0603A0778**

Communication System: FM; Frequency: 420.125 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 420.125$ MHz; $\sigma = 0.83$ mho/m; $\epsilon_r = 42.8$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1604; ConvF(8.1, 8.1, 8.1); Calibrated: 3/18/2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn456; Calibrated: 10/18/2005
- Phantom: SAM with CRP; Type: Twin SAM; Serial: TP-1032
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 161

Face position_2.5cm /Area Scan: Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 3.50 mW/g

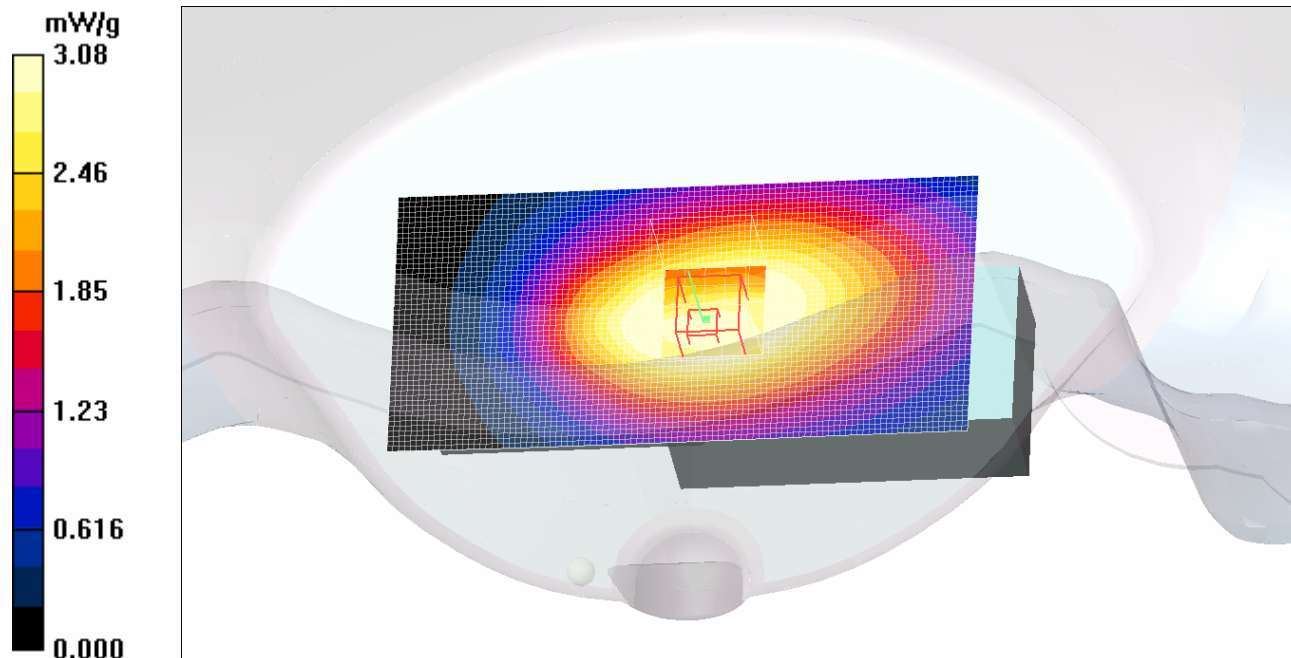
Face position_2.5cm /Zoom Scan (5x5x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 66.3 V/m; Power Drift = 0.125 dB

Peak SAR (extrapolated) = 4.19 W/kg

SAR(1 g) = 2.94 mW/g; SAR(10 g) = 2.14 mW/g

Maximum value of SAR (measured) = 3.08 mW/g

**Plot #2**

APPENDIX F – CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

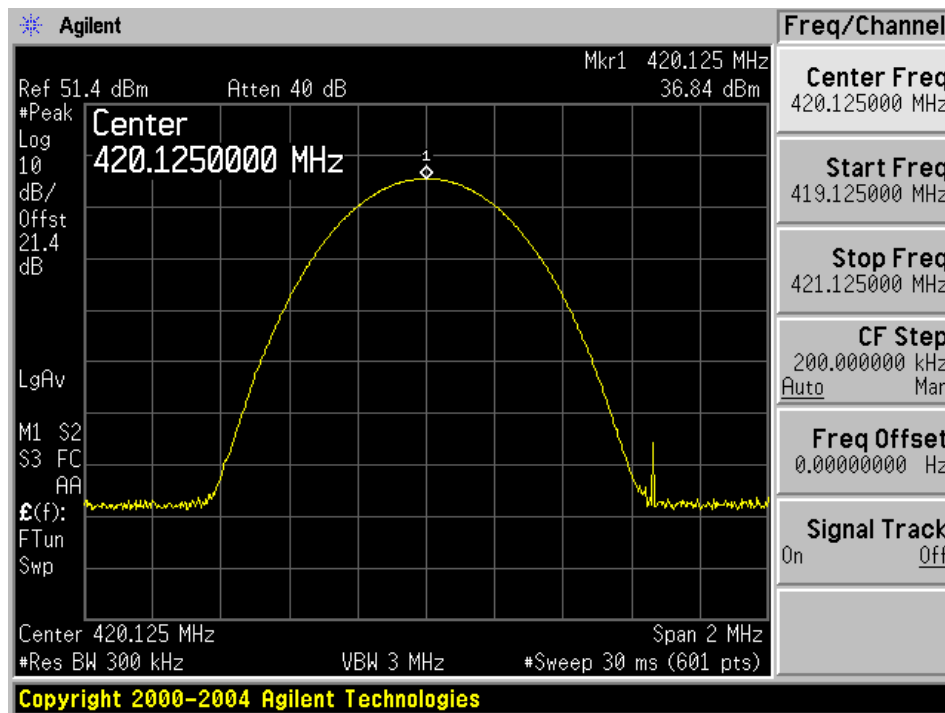
The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Test equipment

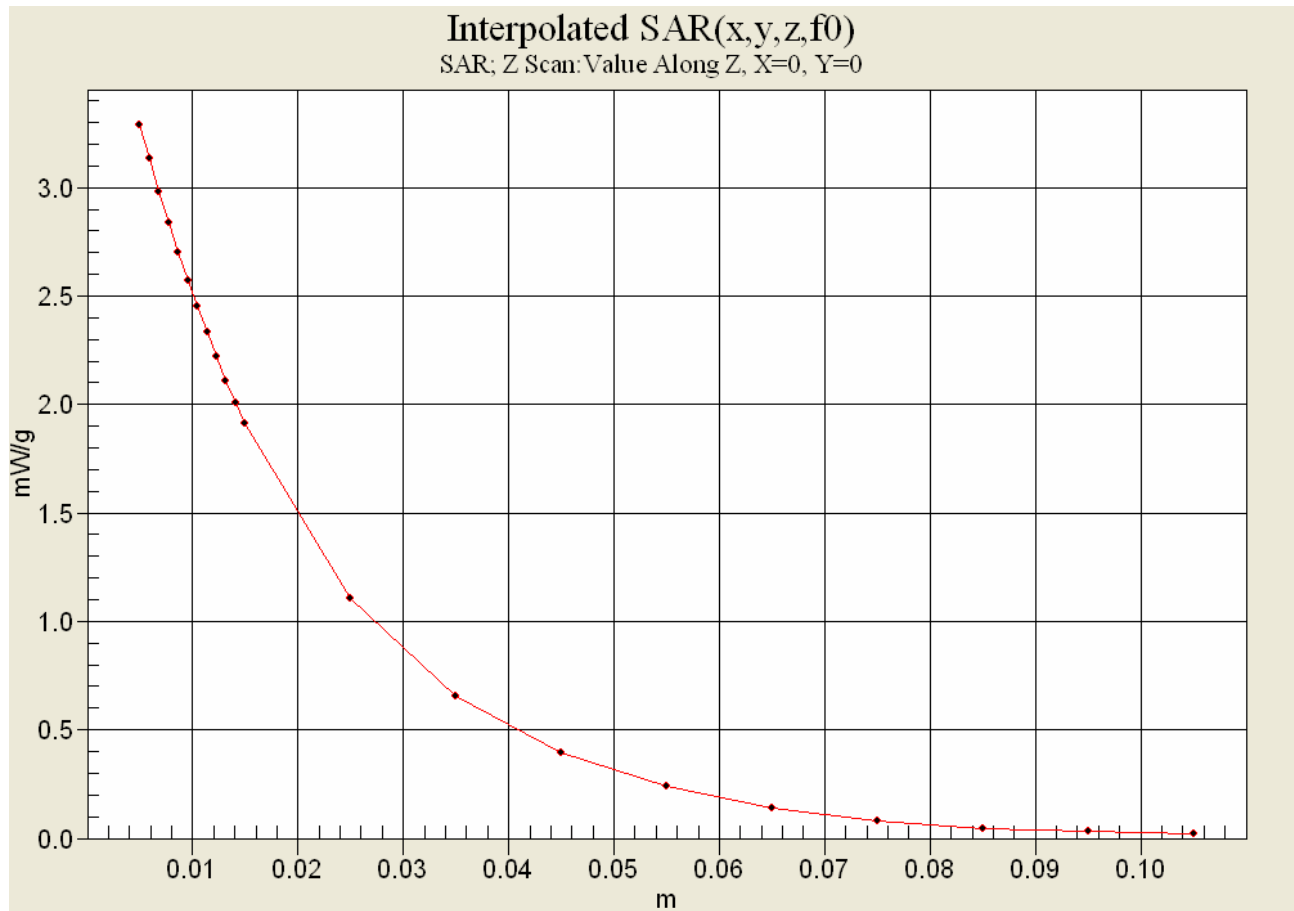
Agilent E4446A Spectrum Analyzer, calibrated 06/03/2006, Calibration Due Date: 2007-3-6

Test Results

Frequency (MHz)	Output Power in dBm	Output Power in W
420.125	36.84	4.83

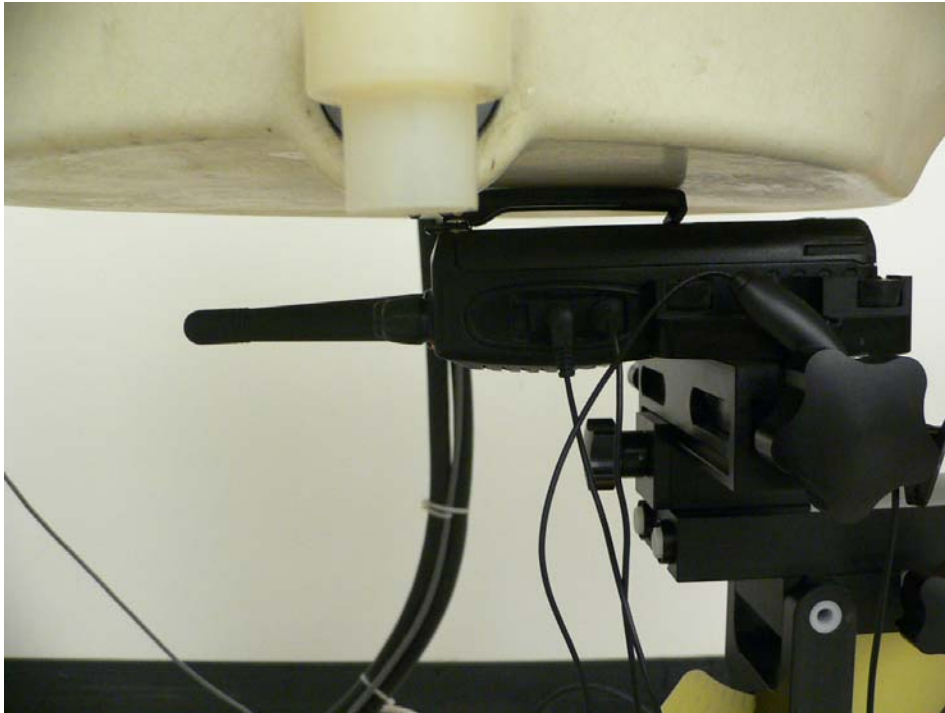


APPENDIX G – Z-AXIS PLOT

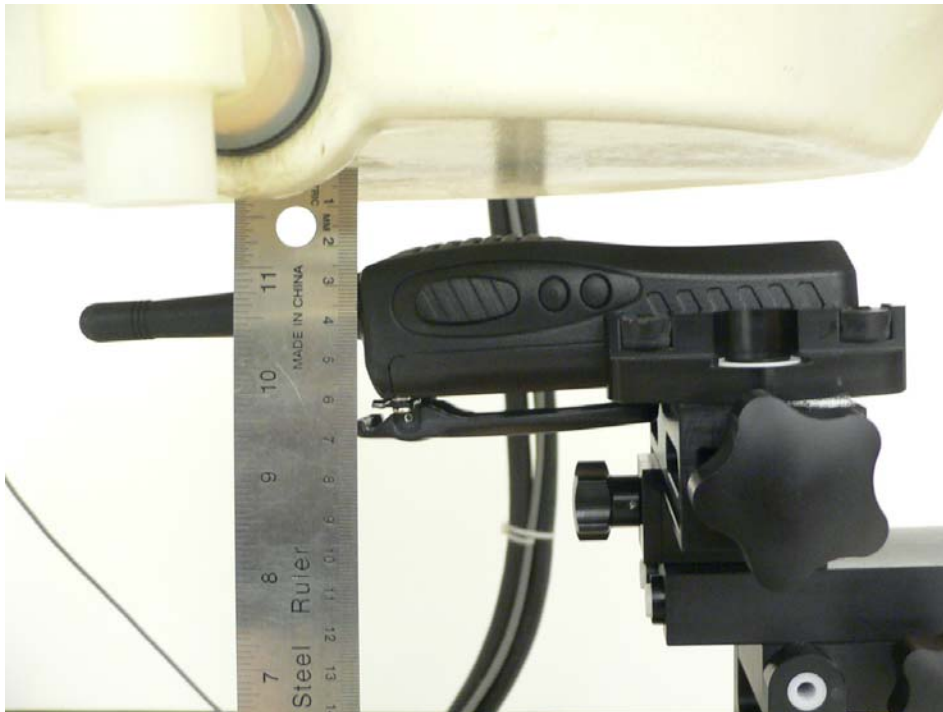


APPENDIX H – EUT TEST POSITION PHOTOS

Body Position



Face 2.5cm Position



APPENDIX I – EUT & ACCESSORIES PHOTOS

Model 3308: EUT – Front View



Model 3308: EUT – Rear View



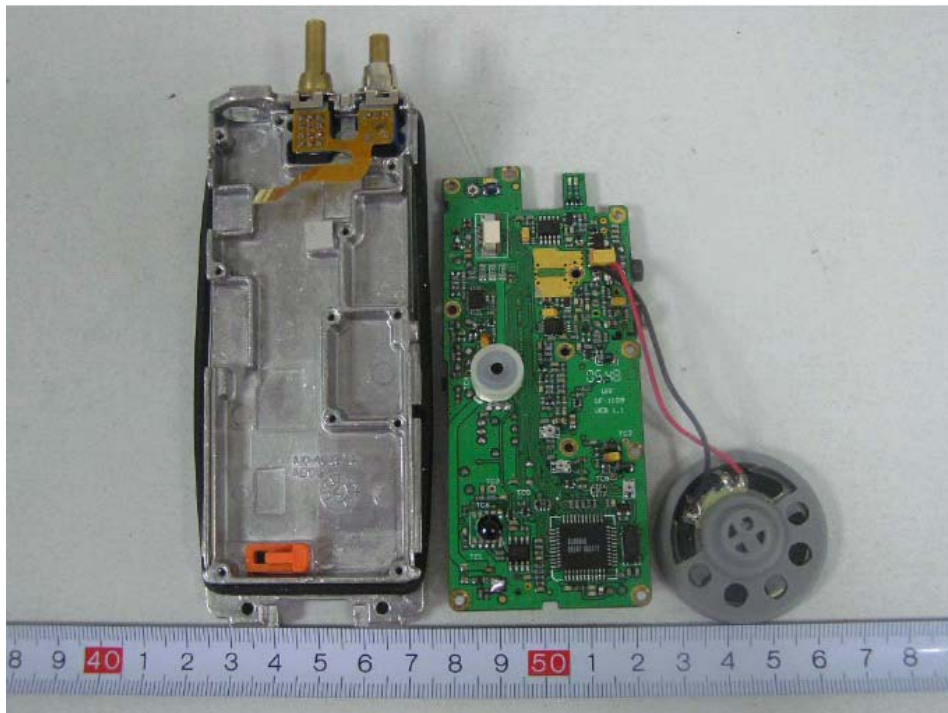
EUT – Uncovered View



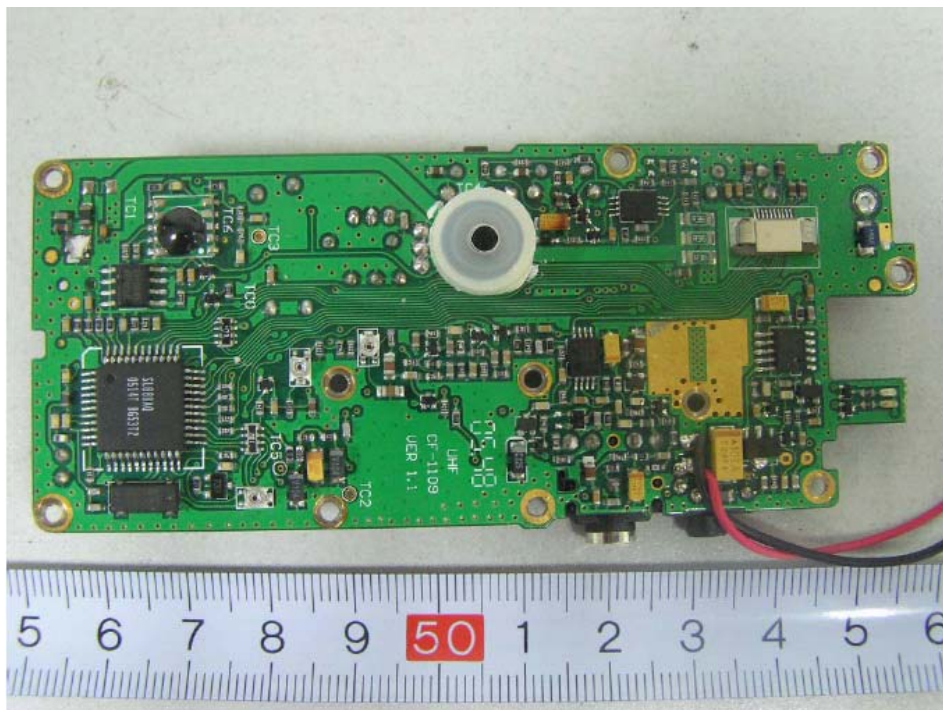
EUT – Uncovered View



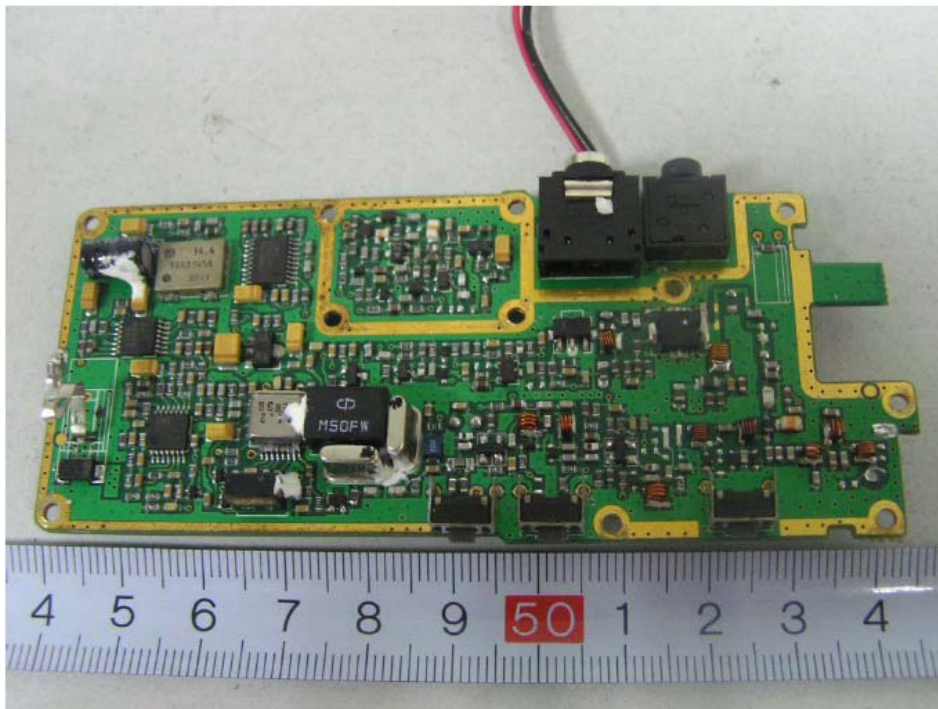
EUT – Uncover View



EUT – Main PCB Side 1 View



EUT – Main PCB Site 2 View



APPENDIX J - INFORMATIVE REFERENCES

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