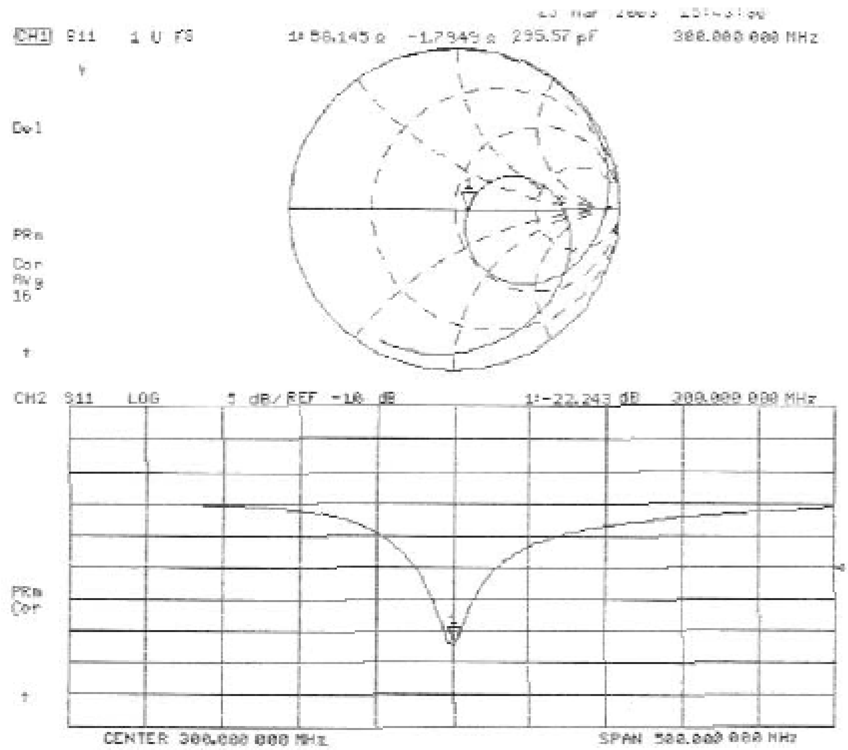

CH1 S11 1 U FS 1: 50.145 Ω -1.7949 Ω 295.57 pF 300.000 000 MHz
Del
PRm
Cor
Avg
16
CH2 S11 LOG 5 dB/ REF -10 dB 1: -22.243 dB 300.000 000 MHz
PRm
Cor
CENTER 300.000 000 MHz
SPAN 500.000 000 MHz

APPENDIX D - TEST SYSTEM VERIFICATIONS SCANS

Liquid Measurement Result

2005-01-03

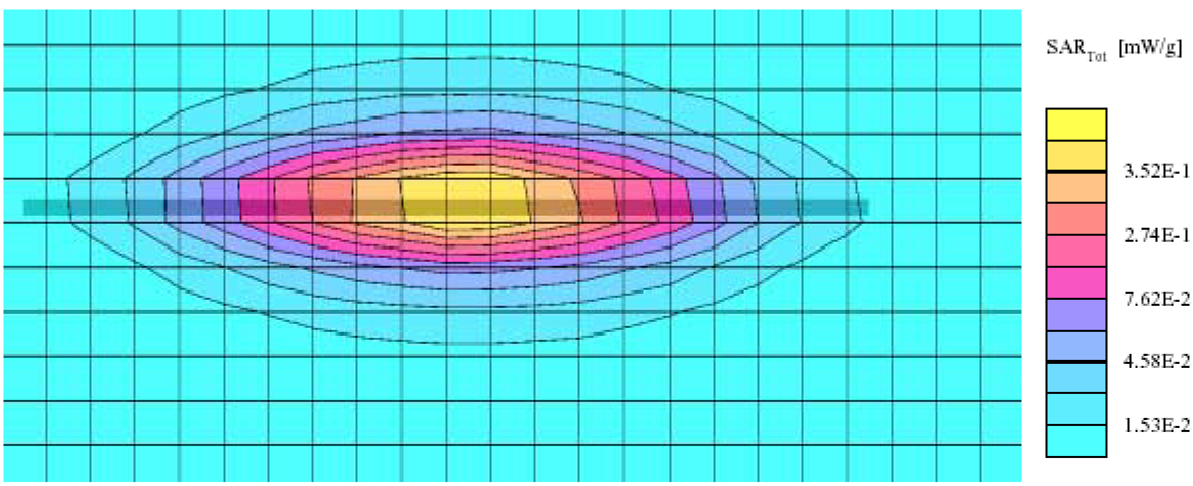
Simulant	Freq [MHz]	Parameters	Liquid Temp [ºC]	Target Value	Measured Value	Deviation [%]	Limits [%]
Body	300	ε	22	58.2	58.0	-0.34	±5
		σ	22	0.92	0.91	-1.09	±5
		1g SAR	22	3.81	3.82	0.26	±10
Head	300	ε	22	45.3	45.6	0.66	±5
		σ	22	0.87	0.86	-1.15	±5
		1g SAR	22	3.00	3.00	0.00	±10

ε = relative permittivity, σ = conductivity and ρ=1000kg/m^3

Note: Forward power for Body = 20.16 dBm = 103.75 mW
Forward power for Head = 20.12 dBm = 102.80 mW

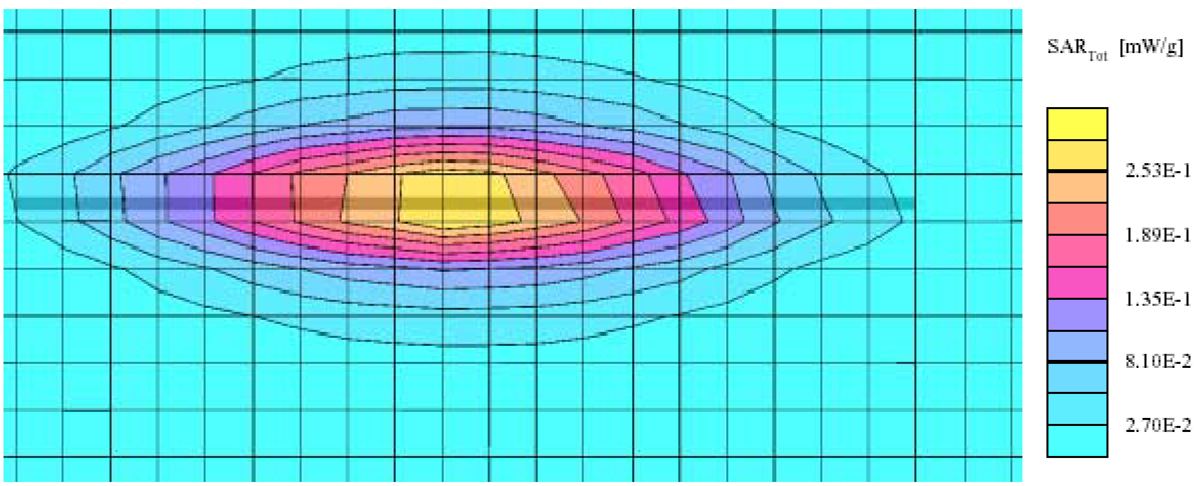
300 MHz Body Liquid System Validation (Ambient Temp = 21 Deg C, Liquid Temp = 22 Deg C, Forward Power = 20.16 dBm, 01/03/2005)

Flat Phantom v4.4 Phantom; Flat Section; Position: (90°,90°); Frequency: 300 MHz
Probe: ES3DV2 - SN3019; ConvF(8.30,8.30,8.30); Crest factor: 1.0; Body liquid 300 MHz: σ = 0.91 mho/m ε_r = 58.0 ρ = 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 0.396 mW/g, SAR (10g): 0.254 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: -0.01 dB



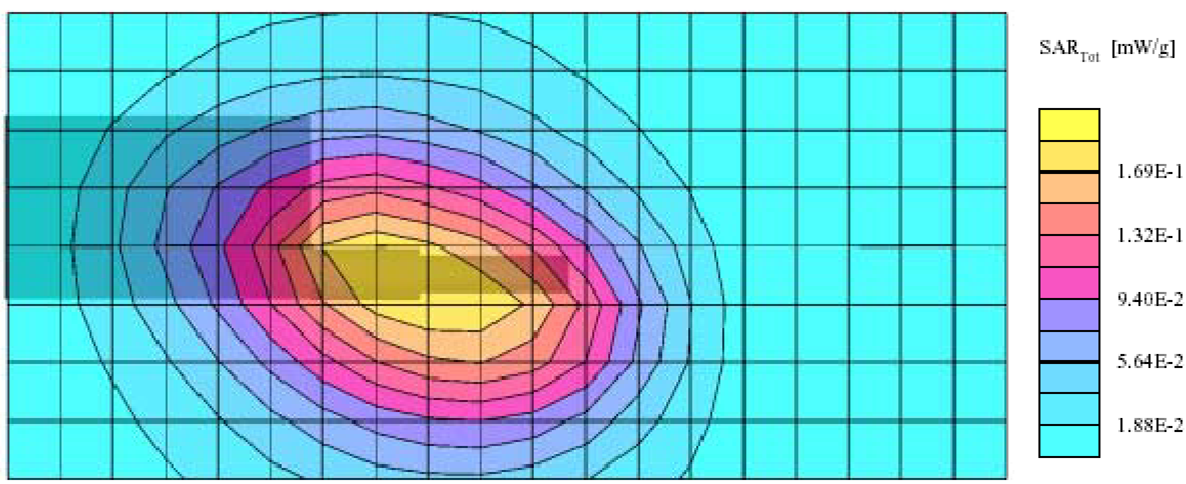
300 MHz Head Liquid System Validation (Ambient Temp = 23 Deg C, Liquid Temp = 22 Deg C, Forward Power = 20.12 dBm, 01/03/2005)

Flat Phantom v4.4 Phantom; Flat Section; Position: (90°,90°); Frequency: 300 MHz
Probe: ES3DV2 - SN3019; ConvF(8.70,8.70,8.70); Crest factor: 1.0; Head liquid 300 MHz: $\sigma = 0.86$ mho/m $\varepsilon_r = 45.6$ $\rho = 1.00$ g/cm^3
Cube 5x5x7: SAR (1g): 0.308 mW/g, SAR (10g): 0.165 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0
Powerdrift: 0.01 dB



APPENDIX E - EUT SCANS

HYT, Model number: TC3600-KV (2) (Back touching flat phantom with belt clip and headset, Mid Channel, Ambient Temp = 23 Deg C, Liquid Temp = 22 Deg C, 01/03/2005)
Flat Phantom v4.4 Phantom; Flat Section; Position: (90°,270°); Frequency: 160.3 MHz
Probe: ES3DV2 - SN3019; ConvF(8.30,8.30,8.30); Crest factor: 1.0; Body 150 MHz: σ = 0.79 mho/m ε_r = 61.6 ρ = 1.00 g/cm^3
Cube 5x5x7: SAR (1g): 0.0477 mW/g, SAR (10g): 0.0368 mW/g, (Worst-case extrapolation)
Coarse: Dx = 20.0, Dy = 18.0, Dz = 10.0
Powerdrift: 0.05 dB



Plot #1

HYT, Model number: TC3000-KV (2) (2.5 cm separation to flat phantom, Mid Channel, Ambient Temp = 23 Deg C, Liquid Temp = 22 Deg C, 01/03/2005)

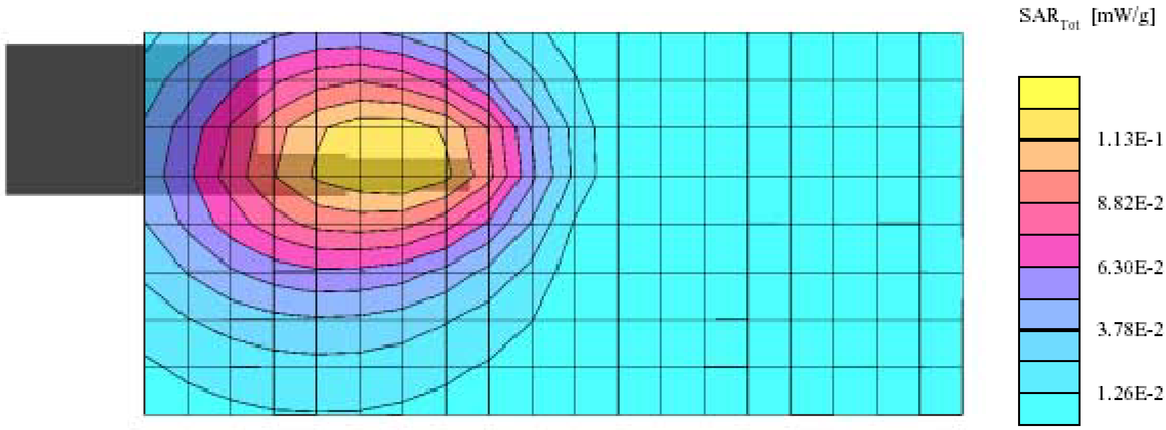
Flat Phantom v4.4 Phantom; Flat Section; Position: (90°,270°); Frequency: 160.3 MHz

Probe: ES3DV2 - SN3019; ConvF(8.70,8.70,8.70); Crest factor: 1.0; Head 150 MHz: σ = 0.75 mho/m ε_r = 52.3 ρ = 1.00 g/cm³

Cubes (2): SAR (1g): 0.0261 mW/g , SAR (10g): 0.0199 mW/g , (Worst-case extrapolation)

Coarse: Dx = 20.0, Dy = 18.0, Dz = 10.0

Powerdrift: -0.01 dB



Plot #2

APPENDIX F – CONDUCTED OUTPUT POWER MEASUREMENT

Provision Applicable

According to FCC §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts. According to FCC § 24.232(b), EIRP peak power for mobile/portable stations are limited to 2 watts.

Test Procedure

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

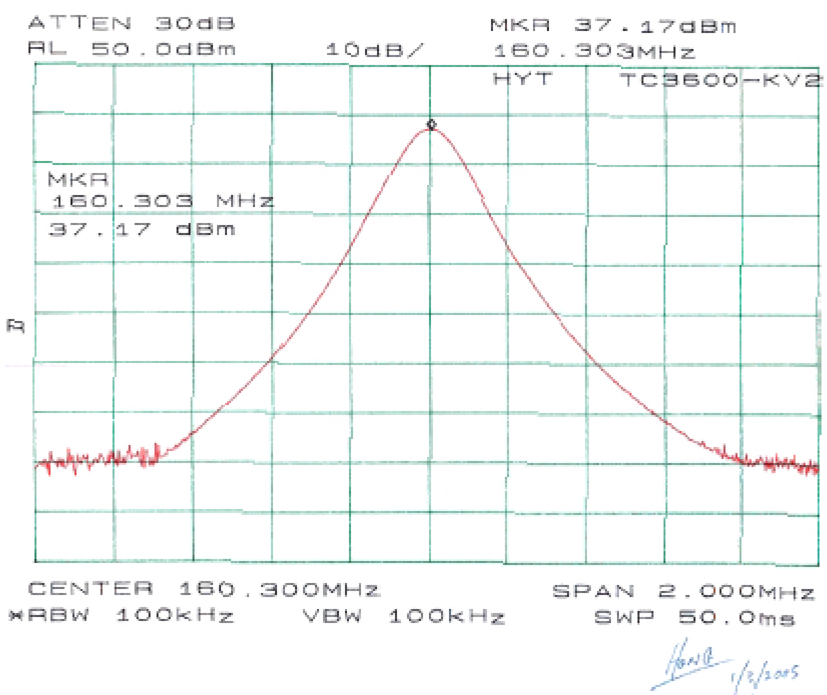
Test equipment

Hewlett Packard HP8564E Spectrum Analyzer, Calibration Due Date: 2005-08-06.
Hewlett Packard HP 7470A Plotter, Calibration not required.
A.H. Systems SAS200 Horn Antenna, Calibration Due Date: 2005-05-31
Com-Power AB-100 Dipole Antenna, Calibration Due Date: 2005-09-05

Test Results

Frequency (MHz)	Output Power in dBm	Output Power in W
160.30	37.17	5.21

Please refer to the following plots.



APPENDIX G – Z-AXIS PLOT

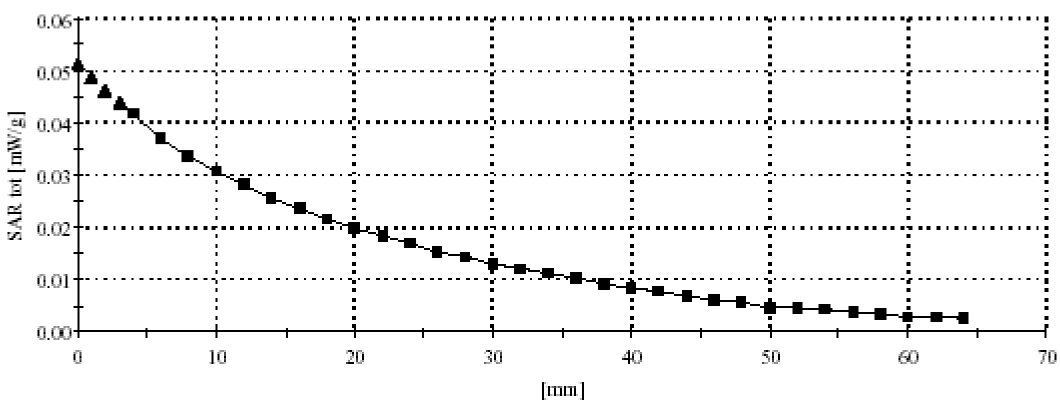
HYT, Model number: TC3600-KV (2) (Back touching flat phantom with belt clip and headset, Mid Channel, Ambient Temp = 23 Deg C, Liquid Temp = 22 Deg C, 01/03/2005)

Flat Phantom v4.4 Phantom; Section; Position: ; Frequency: 160.3 MHz

Probe: ES3DV2 - SN3019; ConvF(8.30,8.30,8.30); Crest factor: 1.0; Body 150 MHz: σ = 0.79 mho/m ε_r = 61.6 ρ = 1.00 g/cm³

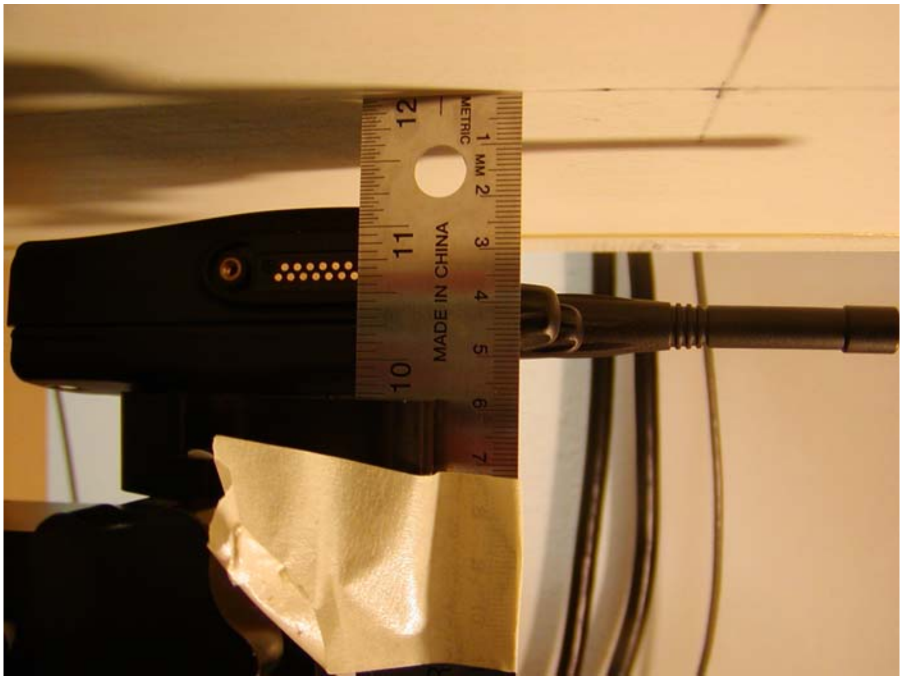
: , ()

Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 2.0



APPENDIX H – EUT TEST POSITION PHOTOS

2.5cm Head Separation to Flat Phantom



Back Touching with Flat Phantom with Belt Clip and Headset

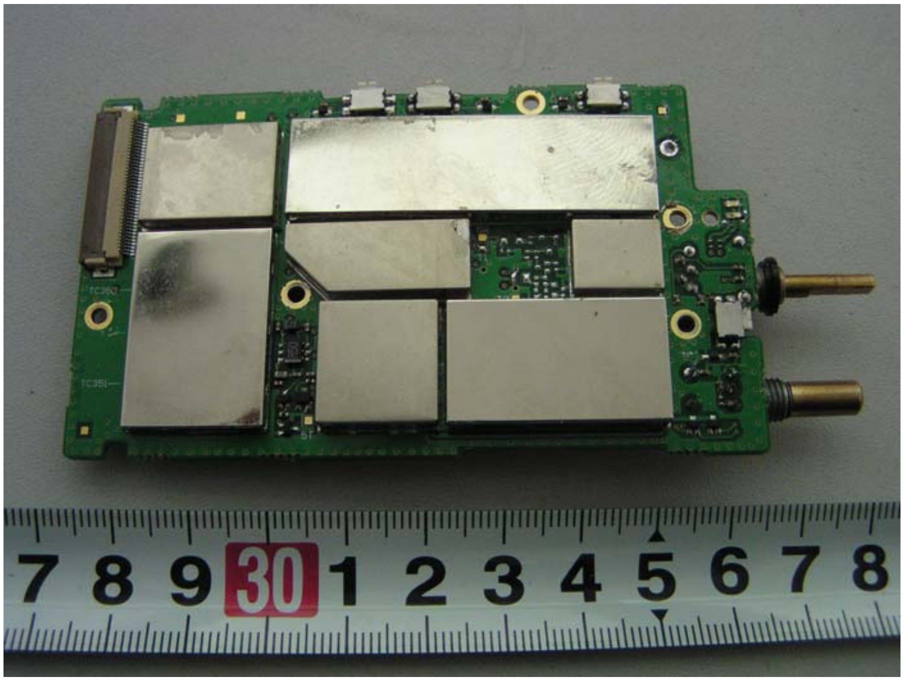
APPENDIX I – EUT & ACCESSORIES PHOTOS

EUT – Front View

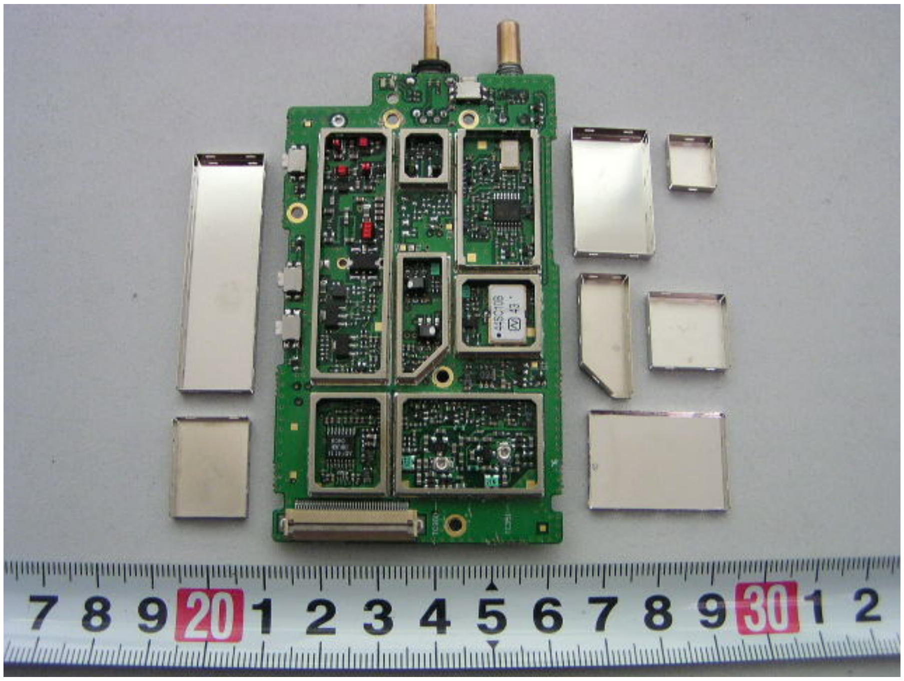
EUT – Rear View

EUT – Battery Removed Back View

Board – Top View

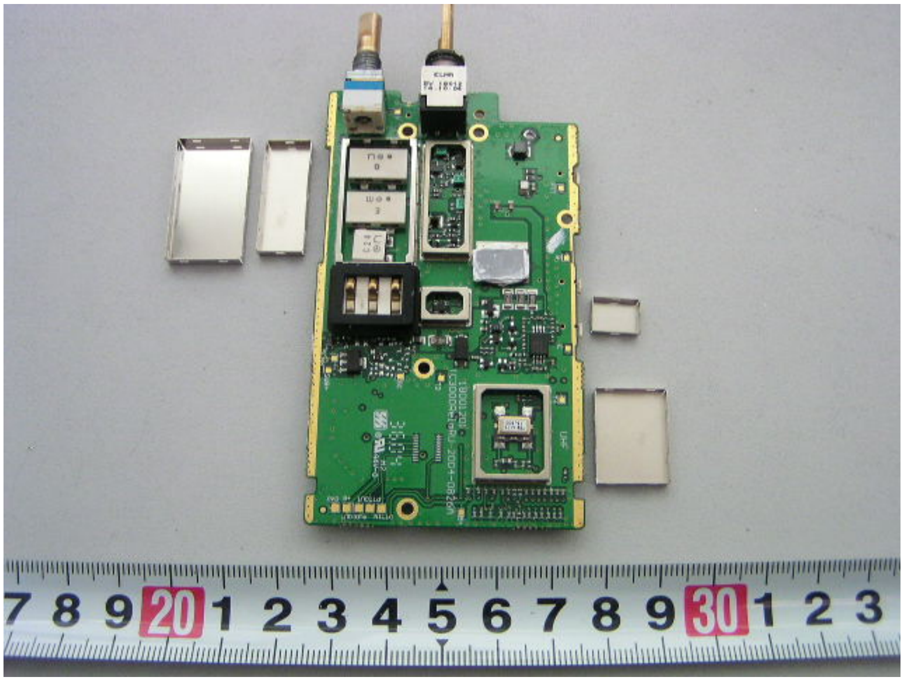


Board – Top Shield Cover Removed View



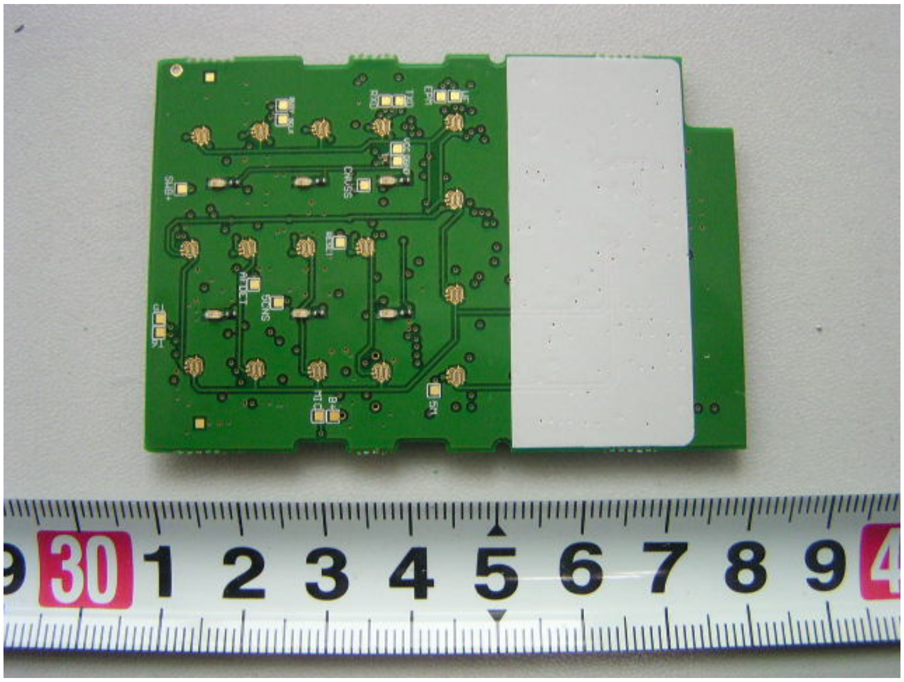
Board – Bottom View

Board – Bottom Shield Cover Removed View

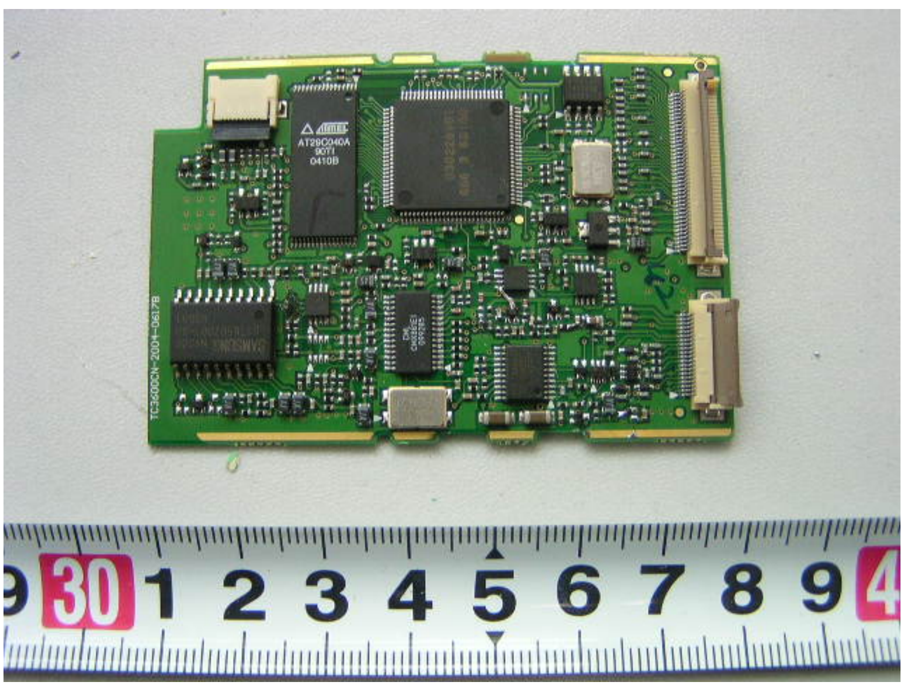


Display Board and Housing

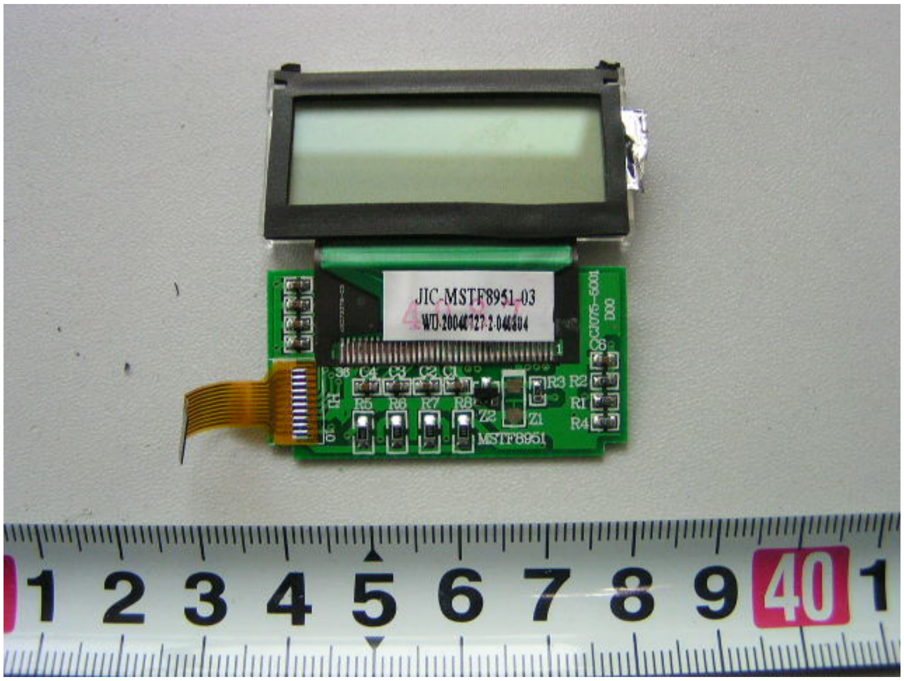
Display Board Top View



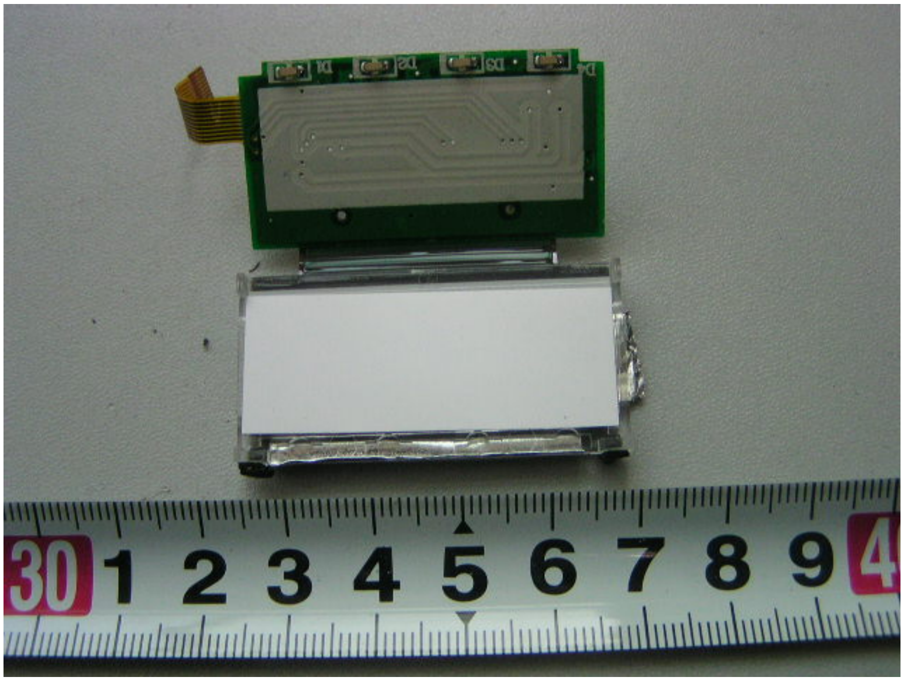
Display Board Bottom View



Screen Board Top View



Screen Board Bottom View



Charger – Top View

Charger – Bottom View

Adapter View

APPENDIX J - INFORMATIVE REFERENCES

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