PCTEST®
ENGINEERING LABORATORY INC.

6660-B Dobbin Road
Columbia, MD 21045 USA
Tel. 410.290.6652
Fax. 410.290.6654
http://www.pctestlab.com

December 2, 2002

Federal Communications Commission
Equipment Approval Services
7435 Oakland Mills Road
Columbia, MD 21046
Attn: Mr. Martin Perrine

SUBJECT: **Samsung Electronics Co., Ltd.**
FCC ID: A3LSWP1200
731 Confirmation No.: TC667269 (FCC ID: A3LHP2777AT)
Request for Tech. Info.: 11/26/2002 (FCC ID: A3LHP2777AT)
Correspondence Ref. Num.: 5988 (FCC ID: A3LHP2777AT)

Dear Martin:

Transmitted herewith, on behalf of **Samsung Electronics Co., Ltd.,** is an amendment provided in response to the request for technical information dated November 26, 2002 and November 27, 2002 requesting filing under two separate FCC ID's.

1. The probe used for SAR evaluation was calibrated by the manufacturer on January 2002 under Appendix C in Supplement C (Tissue Dielectric Parameters) and IEEE P1528 Sec 4. The tolerance for permittivity was within the maximum 10% specification for frequencies between 2-3 GHz. The conductivity was within 5% of the target value.
2. Please find attached the SAR retest showing the localization of the SAR over the entire device.
3. Please find attached the SAR retest data for the edge of the device.
4. Please find attached an internal photograph indicating the location of the transmitting antenna on the HomePAD.

If you have any further questions, please do not hesitate to contact us.

Alfred Cirwithian
Vice President Engineering

cc: **Samsung Electronics Co., Ltd.**

SAR DATA SUMMARY

MEASUREMENT RESULTS (DSSS Body SAR – Web Pad Edge)								
FREQUENCY		Modulation	Begin / End POWER‡			Separation Distance (cm)	Antenna Position	SAR (W/kg)
MHz	Ch.		(W)		Battery			
2412	1	DSSS	0.063	0.063	STANDARD	1.5	INTERNAL	**0.07**
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings.

‡Power Measured	☐	Conducted	☐	ERP	☒	EIRP	
4. SAR Measurement System	☐	DASY3	☒	IDX	☐		
Phantom Configuration	☐	Right Head	☒	Flat Phantom	☐	Left Head	
5. SAR Configuration	☐	Head	☒	Body	☐	Hand	
6. Test Signal Call Mode	☒	Software	☐	Base Station Simulator			

SAR Data Report 02062503

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  Start        : 25-Jun-02 10:30:16 am
  End          : 25-Jun-02 10:38:00 am
  Code Version : 4.08
  Robot Version: 4.08

Product Data:
  Type             : SAMSUNG
  Model Number     : SWP-1200
  Serial Number    : 4
  Frequency        : 2412 MHz
  Transmit Pwr     : 0.063 W
  Antenna Type     : Patch
  Antenna Posn.    : Internal

Measurement Data:
  Phantom Name        : SAM-FLAT
  Phantom Type        : Uniphantom
  Tissue Type         : Muscle
  Tissue Dielectric   : 52.000
  Tissue Conductivity : 1.920
  Tissue Density      : 1.000
  Robot Name          : CRS

Probe Data:
  Probe Name              : PCT25
  Probe Type              : E Fld Triangle
  Frequency               : 2450 MHz
  Tissue Type             : Muscle
  Calibrated Dielectric   : 49.200
  Calibrated Conductivity :  1.950
  Calibrated Density      :  1.000
  Probe Offset            :  2.400 mm
  Conversion Factor       : 16.500
  Probe Sensitivity :  0.753   0.726   0.683   mV/(mW/cm^2)
  Amplifier Gains   :  20.00   20.00   20.00

Sample:
  Rate:         6000 Samples/Sec
  Count:        100 Samples
  NIDAQ Gain:   5

Comments:
  DSSS Mode CH-01
  Body
  CF=1; Amb. Temp= 22.3 'C; Liq. Temp=22.0 'C



Area Scan - Max Peak SAR Value at x=-9.0 y=-40.0 = 0.07 W/kg

Zoom Scan - Max Peak SAR Value at x=7.0 y=-31.0 z=0.0 = 0.26 W/kg

Max 1g SAR at x=-2.0 y=-51.0 z=0.0 = 0.07 W/kg

Max 10g SAR at x=-7.0 y=-45.0 z=0.0 = 0.06 W/kg
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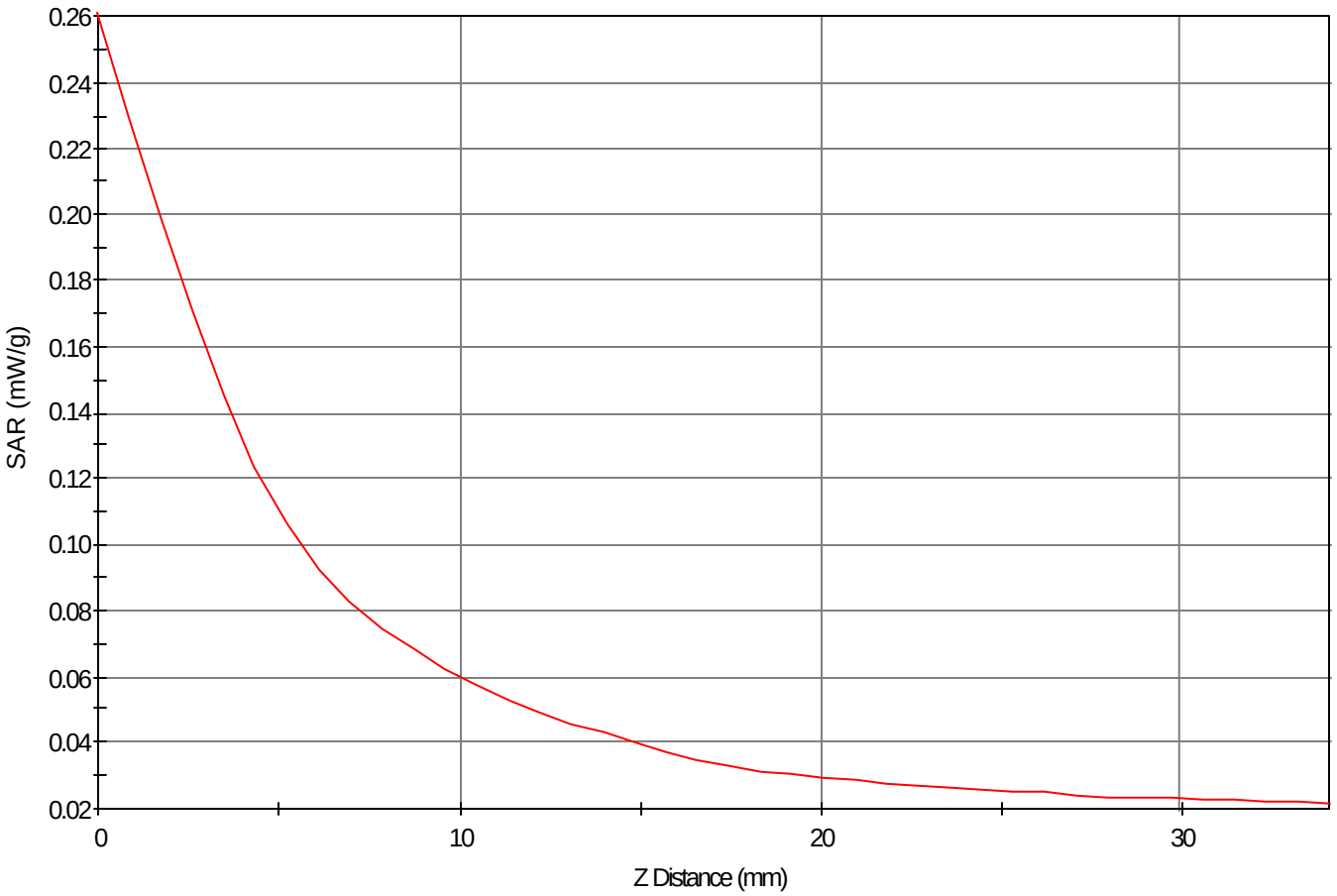
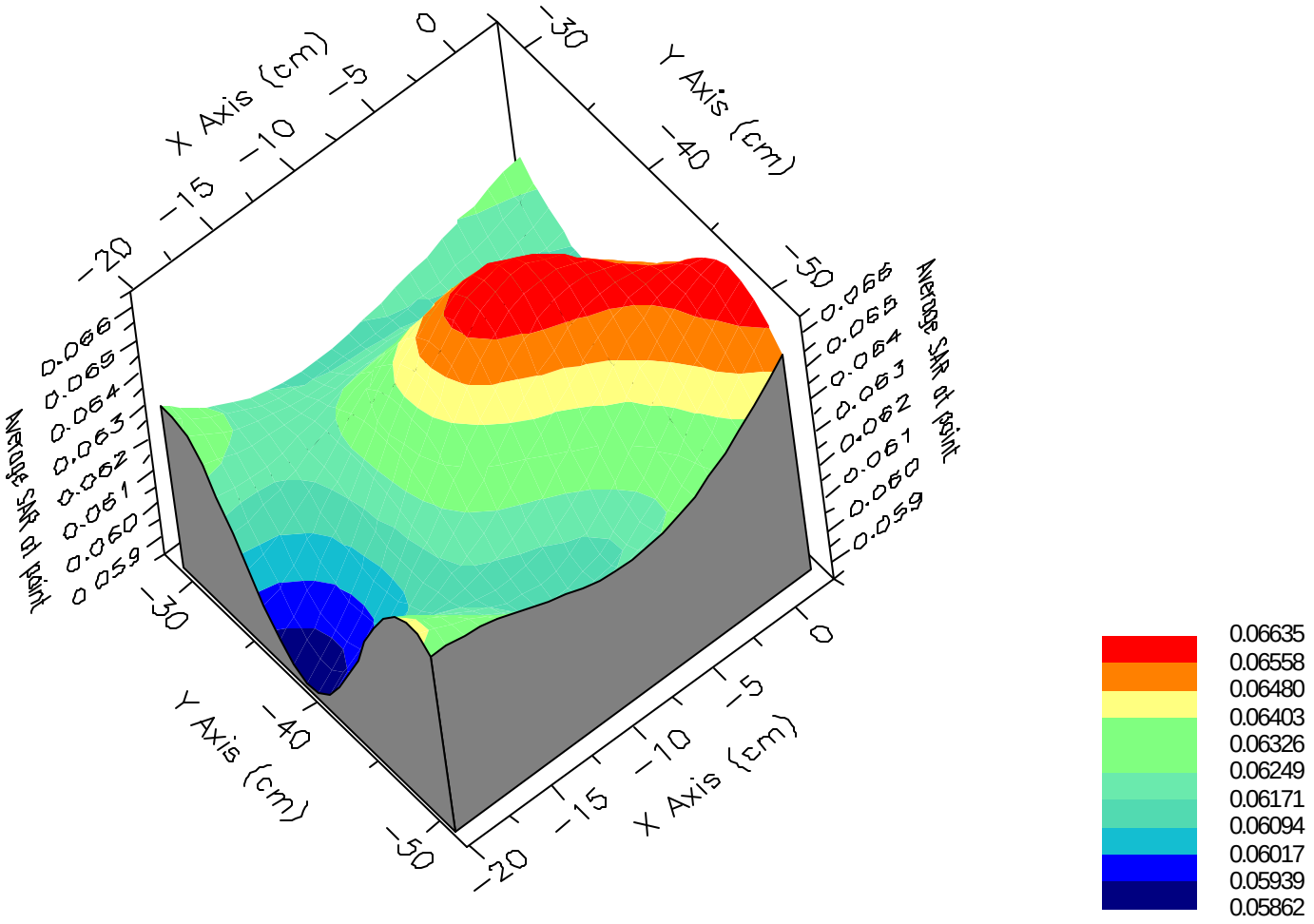
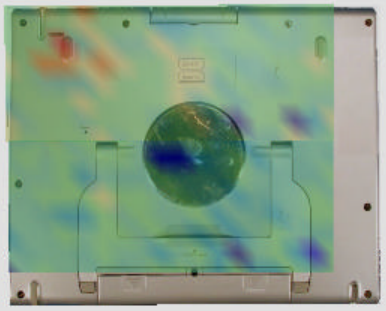
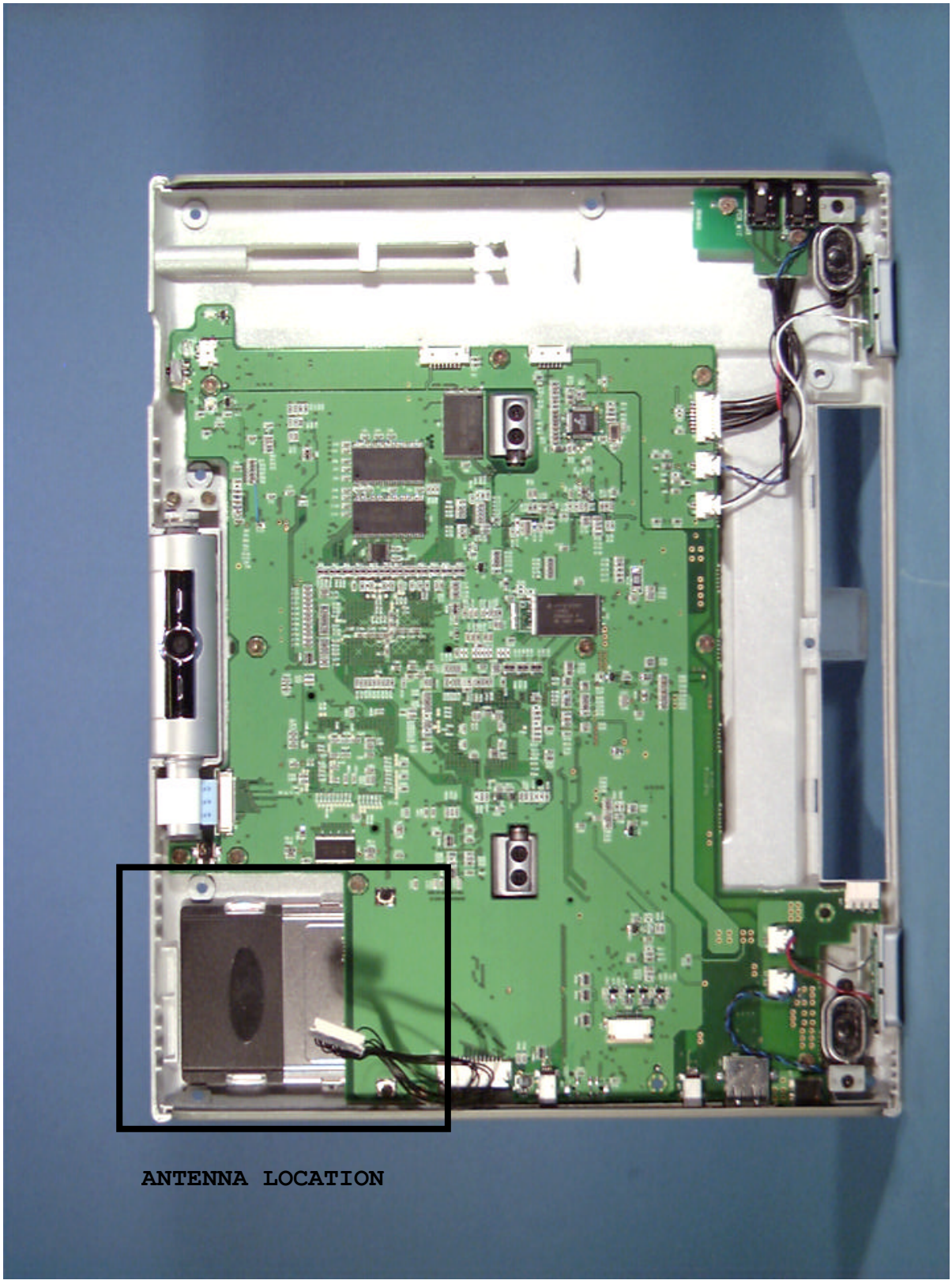
SAR - Z Axis
at Hotspot x:7.0 y:-31.0



1g SAR Values







ANTENNA LOCATION