



CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

APPLICANT NAME & ADDRESS:

Samsung Electronics Co., Ltd.
416 Maetan-3 Dong, Paldal-Ku
Suwon City Kyungki-Do 441-742, KOREA
Attn: Wallace Oh, Engineering Manager
Samsung Electronics America (QA Lab)

DATE & LOCATION OF TESTING:

Dates of Tests: February 8 & 11-13, 2002
Test Report S/N: SAR.220208054.A3L
Test Site: PCTEST Lab, Columbia, MD USA

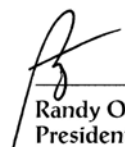
FCC ID:	A3LSPHN400
APPLICANT:	SAMSUNG ELECTRONICS CO., LTD.

EUT Type:	Tri-Mode Dual-Band Analog/PCS Phone (AMPS/CDMA)
Tx Frequency:	824.04 – 848.97 MHz (AMPS) / 824.70 – 848.31 MHz (CDMA) 1851.25 – 1908.75 MHz (PCS CDMA)
Rx Frequency:	869.04 – 893.97 MHz (AMPS) / 869.70 – 893.31 MHz (CDMA) 1931.25 – 1988.75 MHz (PCS CDMA)
Max. RF Output Power:	0.349 W ERP AMPS (25.433 dBm); 0.278 W ERP Cellular CDMA (24.433 dBm); 0.582 W EIRP PCS CDMA (27.651 dBm)
Max. SAR Measurement:	1.250mW/g AMPS Head SAR; 1.100mW/g AMPS Body SAR; 1.010 mW/g Cell. CDMA Head SAR; 0.848mW/g Cell. CDMA Body SAR; 0.721mW/g PCS CDMA Head SAR; 1.320mW/g PCS CDMA Body SAR
Trade Name/Model(s):	SPH-N400
FCC Classification:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§2.1093; FCC/OET Bulletin 65 Supplement C [July 2001]
Application Type:	Certification
Test Device Serial No.:	<i>identical</i> prototype
Antenna Manufacturer:	SB TELECOM CO. Model No.: NSB149-0200800/1900-SS129
Antenna Dimensions:	Length = 9.17 cm. [Helical / Whip]

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in FCC/OET Bulletin 65 Supplement C (2001) and IEEE Std. 1528-200X (Draft 6.4, July 2001).

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President



PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 1 of 32

12. SYSTEM VERIFICATION

Tissue Verification

Table 12.1 Simulated Tissue Verification [5]

MEASURED TISSUE PARAMETERS									
Date(s)	02/04/02	835MHz Brain		835MHz Muscle		1900MHz Brain		1900MHz Muscle	
Liquid Temperature (°C)	21.6	Target	Measured	Target	Measured	Target	Measured	Target	Measured
Dielectric Constant: ϵ		41.50	41.53	55.20	55.24	40.00	40.04	53.30	53.35
Conductivity: σ		0.900	0.920	0.970	0.990	1.400	1.420	1.520	1.56

Test System Validation

Prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at 835MHz and 1900MHz by using the system validation kit(s). (Graphic Plots Attached)

Table 12.2 System Validation [5]

Date(s)	02/11/02	SYSTEM DIPOLE VALIDATION TARGET & MEASURED			
Liquid Temperature (°C)	21.4				
System Validation Kit: D-835V2, S/N: 406		835MHz Brain	Targeted SAR _{1g} (mW/g) 2.375	Measured SAR _{1g} (mW/g) 2.29	Deviation (%) - 3.6
System Validation Kit: D-835V2, S/N: 406		835MHz Muscle	Targeted SAR _{1g} (mW/g) 2.375	Measured SAR _{1g} (mW/g) 2.40	Deviation (%) + 1.0
System Validation Kit: D-1900V2, S/N: 502		1900MHz Brain	Targeted SAR _{1g} (mW/g) 9.925	Measured SAR _{1g} (mW/g) 9.95	Deviation (%) + 0.3
System Validation Kit: D-1900V2, S/N: 502		1900MHz Muscle	Targeted SAR _{1g} (mW/g) 9.925	Measured SAR _{1g} (mW/g) 9.83	Deviation (%) - 1.0

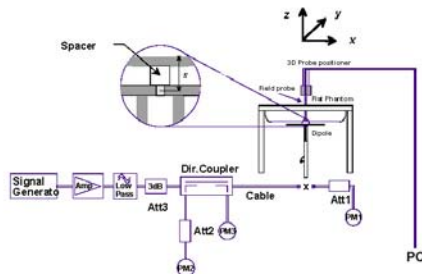


Figure 12.1 Dipole Validation Test Setup

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 16 of 32

13. SAR TEST DATA SUMMARY

[See Measurement Result Data Pages](#)

Procedures Used To Establish Test Signal

The handset was placed into simulated call mode (AMPS, Cellular CDMA & PCS CDMA modes) using manufacturers test codes. Such test signals offer a consistent means for testing SAR and are recommended for evaluating SAR [4]. When test modes are not available or inappropriate for testing a handset, the actual transmission is activated through a base station simulator or similar equipment. See data pages for actual procedure used in measurement.

Device Test Conditions

The handset is battery operated. Each SAR measurement was taken with a fully charged battery. In order to verify that the device was tested at full power, conducted output power measurements were performed before and after each SAR measurement to confirm the output power. If a conducted power deviation of more than 5% occurred, the test was repeated.

EUT Handset Reference Points

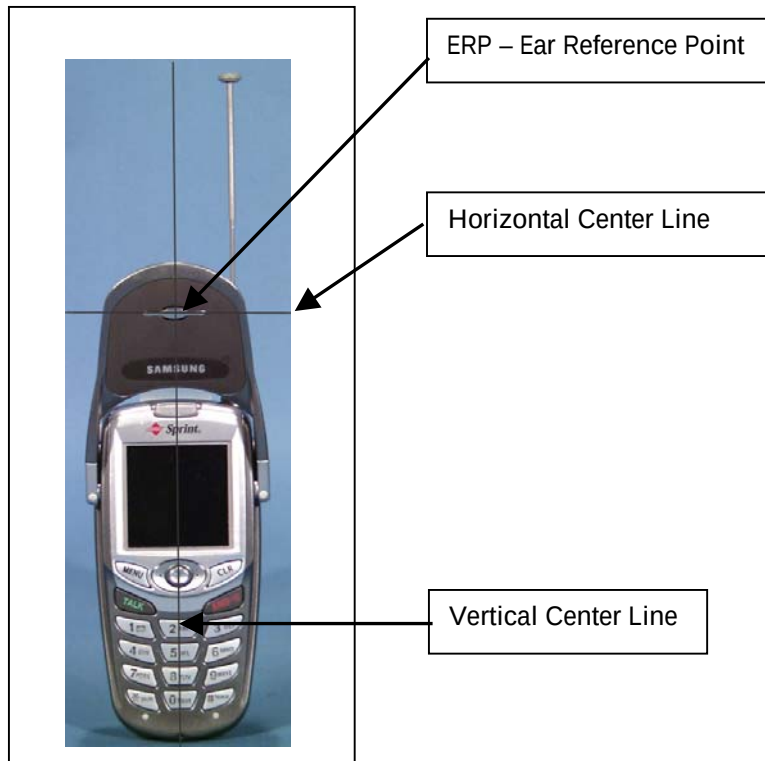


Figure 13.1 Handset Reference Points

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 17 of 32

SAR DATA SUMMARY

Mixture Type: 835MHz Brain
Dielectric Constant: 41.53
Conductivity: 0.920

14.1 MEASUREMENT RESULTS (AMPS Right Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.0	26.0	Standard	Cheek / Touch	In	0.586
824.04	0991	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.524
836.49	0383	AMPS	26.0	26.0	Standard	Cheek / Touch	In	1.250
836.49	0383	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.998
848.97	0799	AMPS	26.0	26.0	Standard	Cheek / Touch	In	0.811
848.97	0799	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.708
836.49	0383	AMPS	26.0	26.0	Extended	Cheek / Touch	In	1.220
836.49	0383	AMPS	26.0	26.0	Extended	Cheek / Touch	Out	1.050
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

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

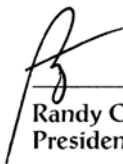

Randy Ortanez
President



Figure 14.1 Right Head SAR Test Setup
-- Cheek / Touch Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 18 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain
Dielectric Constant: 41.53
Conductivity: 0.920

14.2 MEASUREMENT RESULTS (AMPS Right Head SAR – Tilt)								
FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)	Battery				
824.04	0991	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.229
824.04	0991	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.203
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.380
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.342
848.97	0799	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.266
848.97	0799	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.245
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

- [‡]Power Measured
- | | | |
|---|---|--|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☐ Phantom Configuration | ☐ Left Head | ☐ Flat Phantom |
| ☒ SAR Configuration | ☒ Head | ☒ Right Head |
| ☐ Test Signal Call Mode | ☐ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |


Randy Ortanez
President



Figure 14.2 Right Head SAR Test Setup
-- Ear / 15° Tilt Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 19 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain
Dielectric Constant: 41.53
Conductivity: 0.920

14.3 MEASUREMENT RESULTS (AMPS Left Head SAR - Touch)								
FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)	Battery				
824.04	0991	AMPS	26.0	26.0	Standard	Cheek / Touch	In	0.563
824.04	0991	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.465
836.49	0383	AMPS	26.0	26.0	Standard	Cheek / Touch	In	1.250
836.49	0383	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.992
848.97	0799	AMPS	26.0	26.0	Standard	Cheek / Touch	In	0.752
848.97	0799	AMPS	26.0	26.0	Standard	Cheek / Touch	Out	0.703
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

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

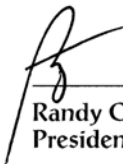

Randy Ortanez
President



Figure 14.3 Left Head SAR Test Setup
-- Cheek / Touch Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 20 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain
Dielectric Constant: 41.53
Conductivity: 0.920

14.4 MEASUREMENT RESULTS (AMPS Left Head SAR – Tilt)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.240
824.04	0991	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.211
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.414
836.49	0383	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.355
848.97	0799	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	In	0.309
848.97	0799	AMPS	26.0	26.0	Standard	Ear / 15° Tilt	Out	0.278
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

- [‡]Power Measured
- | | | |
|---|--|---|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☒ Phantom Configuration | ☒ Left Head | ☐ Flat Phantom |
| ☒ SAR Configuration | ☒ Head | ☐ Body |
| ☒ Test Signal Call Mode | ☒ Manu. Test Codes | ☐ Base Station Simulator |
| | | ☐ Right Head |
| | | ☐ Hand |


Randy Ortanez
President



Figure 14.4 Left Head SAR Test Setup
-- Ear / 15° Tilt Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 21 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Brain
Dielectric Constant: 41.53
Conductivity: 0.920

14.5 MEASUREMENT RESULTS (CELLULAR CDMA Right Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.70	1013	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.770
824.70	1013	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.645
836.49	0383	CDMA	25.1	25.0	Standard	Cheek / Touch	In	1.010
836.49	0383	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.848
848.31	0777	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.805
848.31	0777	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.576
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- [‡]Power Measured
- | | | |
|--|---|--|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☐ Left Head | ☐ Flat Phantom | ☒ Right Head |
| ☒ Head | ☐ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |
- SAR Measurement System
 - SAR Configuration
 - Test Signal Call Mode


Randy Ortanez
President



Figure 14.5 Right Head SAR Test Setup
-- Ear / 15° Tilt Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 22 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain

Dielectric Constant: 40.04

Conductivity: 1.42

14.6 MEASUREMENT RESULTS (PCS CDMA Right Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.615
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.184
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.552
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.204
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.611
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.093
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

- [‡]Power Measured
- | | | |
|---|---|--|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☐ Phantom Configuration | ☐ Left Head | ☐ Flat Phantom |
| ☒ SAR Configuration | ☒ Head | ☒ Right Head |
| ☐ Test Signal Call Mode | ☐ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |


Randy Ortanez
President



Figure 14.6 Right Head SAR Test Setup
-- Cheek / Touch Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 23 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain
Dielectric Constant: 40.04
Conductivity: 1.42

14.7 MEASUREMENT RESULTS (PCS CDMA Right Head SAR – Tilt)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.356
1851.25	0025	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.078
1880.00	0600	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.330
1880.00	0600	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.055
1908.75	1175	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.279
1908.75	1175	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.085
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

- [‡]Power Measured
- | | | |
|---|---|--|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☐ Phantom Configuration | ☐ Left Head | ☐ Flat Phantom |
| ☒ SAR Configuration | ☒ Head | ☒ Right Head |
| ☐ Test Signal Call Mode | ☐ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |


Randy Ortanez
President



Figure 14.7 Right Head SAR Test Setup -- Ear / Tilt Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 24 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain

Dielectric Constant: 40.04

Conductivity: 1.42

14.8 MEASUREMENT RESULTS (PCS CDMA Left Head SAR – Touch)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.611
1851.25	0025	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.197
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.721
1880.00	0600	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.392
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	In	0.411
1908.75	1175	CDMA	25.1	25.0	Standard	Cheek / Touch	Out	0.328
1880.00	0600	CDMA	25.1	25.0	Extended	Cheek / Touch	In	0.708
1880.00	0600	CDMA	25.1	25.0	Extended	Cheek / Touch	Out	0.378
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Brain		
Spatial Peak						1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population						averaged over 1 gram		

NOTES:

- 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].
- All modes of operation were investigated, and worst-case results are reported.
- Battery is fully charged for all readings.

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


Randy Ortanez
President



Figure 14.8 Left Head SAR Test Setup
-- Cheek / Touch Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 25 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Brain
Dielectric Constant: 40.04
Conductivity: 1.42

14.9 MEASUREMENT RESULTS (PCS CDMA Left Head SAR – Tilt)

FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)	Battery				
1851.25	0025	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.276
1851.25	0025	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.071
1880.00	0600	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.358
1880.00	0600	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.073
1908.75	1175	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	In	0.250
1908.75	1175	CDMA	25.1	25.0	Standard	Ear / 15° Tilt	Out	0.061
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- 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].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- [‡]Power Measured
- | | | |
|--|---|-------------------------------------|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☒ Left Head | ☐ Flat Phantom | ☐ Right Head |
| ☒ Head | ☐ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |
- SAR Measurement System
 - SAR Configuration
 - Test Signal Call Mode


Randy Ortanez
President



Figure 14.9 Left Head SAR Test Setup
-- Ear / Tilt Position --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 26 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

Dielectric Constant: 55.24

Conductivity: 0.99

14.10 MEASUREMENT RESULTS (AMPS Body SAR w/o Holster)

FREQUENCY		Modulation	Begin / End POWER [‡]			Separation Distance (cm) ^{**}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
824.04	0991	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	In	0.872
824.04	0991	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	Out	0.694
836.49	0383	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	In	1.100
836.49	0383	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	Out	0.953
848.97	0799	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	In	0.757
848.97	0799	AMPS	26.0	26.0	Standard	1.5 [w/o Holster]	Out	0.592
836.49	0383	AMPS	26.0	26.0	Extended	1.5 [w/o Holster]	In	1.050
836.49	0383	AMPS	26.0	26.0	Extended	1.5 [w/o Holster]	Out	0.886
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		
Spatial Peak								
Uncontrolled Exposure/General Population								

NOTES:

- 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].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- [‡]Power Measured
- ☒ Conducted ☐ ERP ☐ EIRP
- ⁴ SAR Measurement System ☒ DASY3 ☐ IDX ☐
- Phantom Configuration ☐ Left Head ☒ Flat Phantom ☐ Right Head
- ⁵ SAR Configuration ☐ Head ☒ Body ☐ Hand
- ⁶ Test Signal Call Mode ☒ Manu. Test Codes ☐ Base Station Simulator
- ⁷ ^{**}Test Configuration ☐ With Holster ☒ Without Holster
- ⁸ Both sides of the phone were tested and the worst-case side is reported.

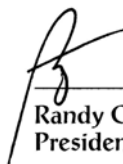

Randy Ortanez
President



Figure 14.10 Body SAR Test Setup
-- w/o Holster --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 27 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 835MHz Muscle

Dielectric Constant: 55.24

Conductivity: 0.99

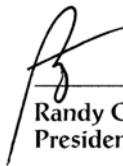
14.11 MEASUREMENT RESULTS (CELLULAR CDMA Body SAR w/o Holster)

FREQUENCY		Modulation	Begin / End POWER [†]			Separation Distance (cm) ^{**}	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)		Battery			
836.49	0383	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	In	0.848
836.49	0383	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	Out	0.695
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle 1.6 W/kg (mW/g) averaged over 1 gram		
Spatial Peak								
Uncontrolled Exposure/General Population								

NOTES:

- 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].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- *Power Measured
4. SAR Measurement System
- Phantom Configuration
5. SAR Configuration
6. Test Signal Call Mode
7. **Test Configuration
8. Both sides of the phone were tested and the worst-case side is reported.

- | | | |
|--|---|-------------------------------------|
| ☒ Conducted | ☐ ERP | ☐ EIRP |
| ☒ DASY3 | ☐ IDX | ☐ |
| ☐ Left Head | ☒ Flat Phantom | ☐ Right Head |
| ☐ Head | ☒ Body | ☐ Hand |
| ☒ Manu. Test Codes | ☐ Base Station Simulator | |
| ☐ With Holster | ☒ Without Holster | |


Randy Ortanez
President



**Figure 14.11 Body SAR Test Setup
-- w/o Holster --**

PCTEST [™] SAR REPORT	FCC CERTIFICATION REPORT		Reviewed by: Quality Manager	
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 28 of 32

SAR DATA SUMMARY (Continued)

Mixture Type: 1900MHz Muscle

Dielectric Constant: 53.35

Conductivity: 1.56

14.12 MEASUREMENT RESULTS (PCS CDMA Body SAR w/o Holster)

FREQUENCY		Modulation	Begin / End POWER [‡]		Separation Distance (cm) ^{**}	Antenna Position	SAR (W/kg)	
MHz	Ch.		(dBm)					Battery
1851.25	0025	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	In	1.320
1851.25	0025	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	Out	0.550
1880.00	0600	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	In	1.070
1880.00	0600	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	Out	0.535
1908.75	1175	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	In	1.140
1908.75	1175	CDMA	25.1	25.0	Standard	1.5 [w/o Holster]	Out	0.597
1851.25	0025	CDMA	25.1	25.0	Extended	1.5 [w/o Holster]	In	1.110
1851.25	0025	CDMA	25.1	25.0	Extended	1.5 [w/o Holster]	Out	0.584
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Muscle		
Spatial Peak						1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population						averaged over 1 gram		

NOTES:

- 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].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- [‡]Power Measured ☒ Conducted ☐ ERP ☐ EIRP
4. SAR Measurement System ☒ DASY3 ☐ IDX ☐
- Phantom Configuration ☐ Left Head ☒ Flat Phantom ☐ Right Head
5. SAR Configuration ☐ Head ☒ Body ☐ Hand
6. Test Signal Call Mode ☒ Manu. Test Codes ☐ Base Station Simulator
7. ^{**}Test Configuration ☐ With Holster ☒ Without Holster
8. Both sides of the phone were tested and the worst-case side is reported.

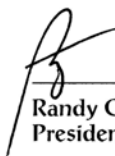

Randy Ortanez
President



Figure 14.12 Body SAR Test Setup
-- w/o Holster --

PCTEST™ SAR REPORT	FCC CERTIFICATION REPORT			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 29 of 32

15. SAR TEST EQUIPMENT

Equipment Calibration

Table 15.1 Test Equipment Calibration

EQUIPMENT SPECIFICATIONS		
Type	Calibration Date	Serial Number
Stäubli Robot RX60L	February 2002	599131-01
Stäubli Robot Controller	February 2002	PCT592
Stäubli Teach Pendant (Joystick)	February 2002	3323-00161
Micron Computer, 450 MHz Pentium III, Windows NT	February 2002	PCT577
SPEAG EDC3	February 2002	321
SPEAG DAE3	February 2002	330
SPEAG E-Field Probe ET3DV6	February 2002	1560
SPEAG Dummy Probe	February 2002	PCT583
SPEAG SAM Twin Phantom V4.0	February 2002	PCT666
SPEAG Light Alignment Sensor	February 2002	205
SPEAG Validation Dipole D1900V2	February 2002	PCT613
Brain Equivalent Matter (835MHz)	February 2002	PCTBEM101
Brain Equivalent Matter (1900MHz)	February 2002	PCTBEM301
Muscle Equivalent Matter (835MHz)	February 2002	PCTMEM201
Muscle Equivalent Matter (1900MHz)	February 2002	PCTMEM401
Microwave Amp. Model: 5S1G4, (800MHz - 4.2GHz)	January 2002	22332
Gigatronics 8651A Power Meter	January 2002	1835299
HP-8648D (9kHz ~ 4GHz) Signal Generator	January 2002	PCT530
Amplifier Research 5S1G4 Power Amp	January 2002	PCT540
HP-8753E (30kHz ~ 3GHz) Network Analyzer	January 2002	PCT552
HP85070B Dielectric Probe Kit	January 2002	PCT501
Ambient Noise/Reflection, etc.	<12mW/kg/<3%of SAR	January 2002
		Anechoic Room PCT01

NOTE:

The E-field probe was calibrated by SPEAG, by temperature measurement procedure. Dipole Validation measurement is performed by PCTEST Lab. before each test. The brain simulating material is calibrated by PCTEST using the dielectric probe system and network analyzer to determine the conductivity and permittivity (dielectric constant) of the brain-equivalent material.

PCTEST™ SAR REPORT	 FCC CERTIFICATION REPORT 			Reviewed by: Quality Manager
SAR Filename: SAR-220208054A3L	Test Dates: Feb. 08-09 & 11-13, 2002	Phone Type: TriMode Dual-Band	FCC ID: A3LSPHN400	Page 30 of 32

SAMSUNG FCC ID: A3LSPHN400 -- FM Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain: $\sigma = 0.92$ mho/m $\epsilon_r = 41.53$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

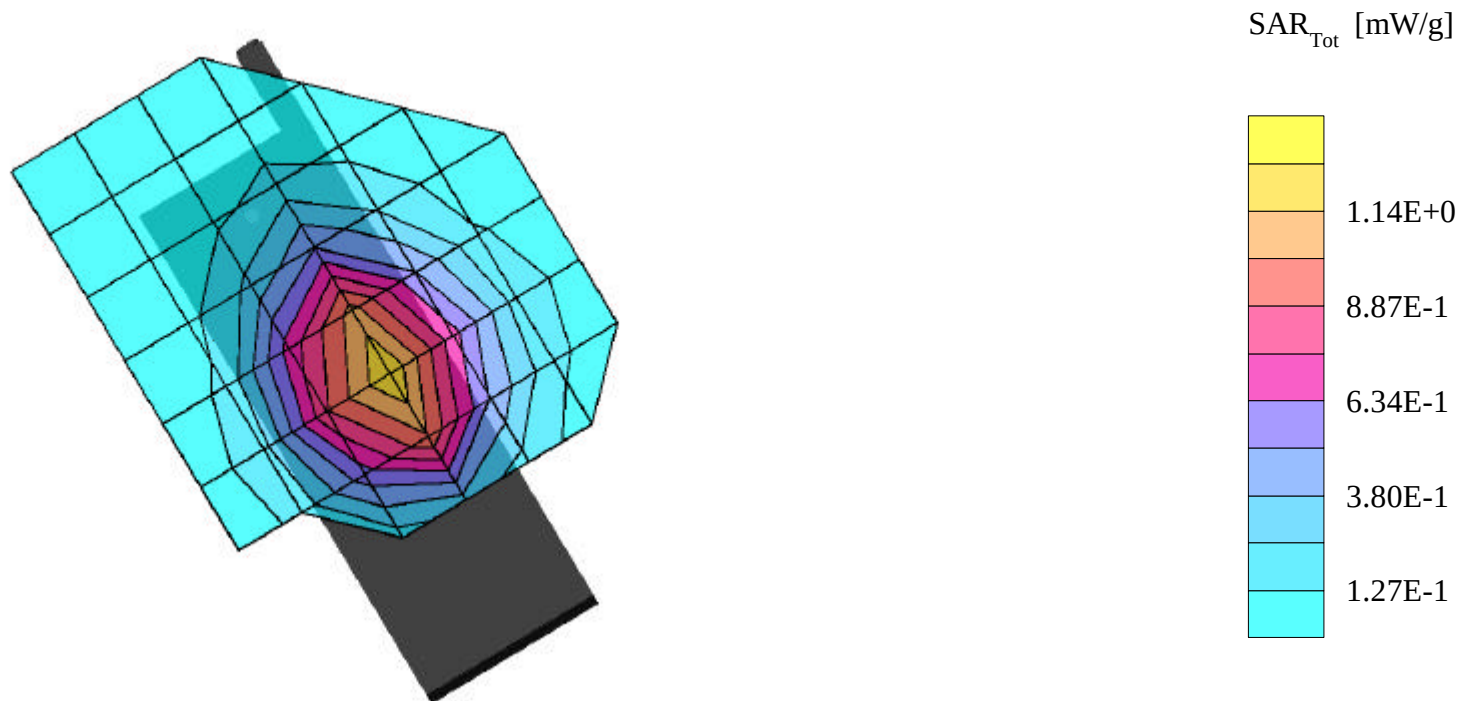
SAR (1g): 1.25 mW/g, SAR (10g): 0.893 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

FM Mode, Ch.0383 [836.49]; Standard Battery; Flip = Open

Conducted Power = 26.0dBm; Right Head Phantom, Cheek/Touch Position; Meas. Tissue Temp. (°C) - 21.3

Test Date -- 02/11/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- FM Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain: $\sigma = 0.92$ mho/m $\epsilon_r = 41.53$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

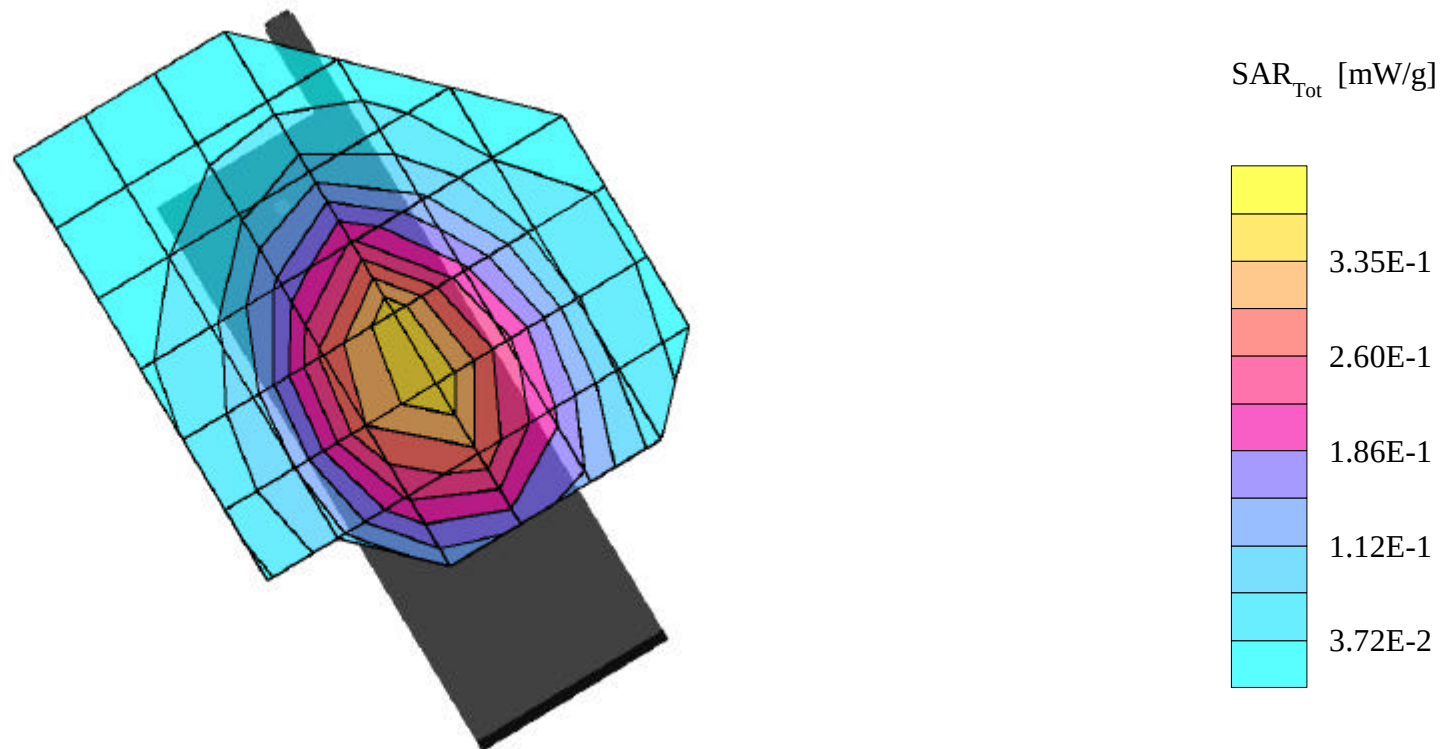
SAR (1g): 0.380 mW/g SAR (10g): 0.276 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

FM Mode, Ch.0383 [836.49]; Standard Battery; Flip = Open

Conducted Power = 26.0dBm; Right Head Phantom, Ear/15degree Tilt Position; Meas. Tissue Temp. (°C) - 21.3

Test Date -- 02/11/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- FM Head SAR

SAM Phantom; Left Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain: $\sigma = 0.92$ mho/m $\epsilon_r = 41.53$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

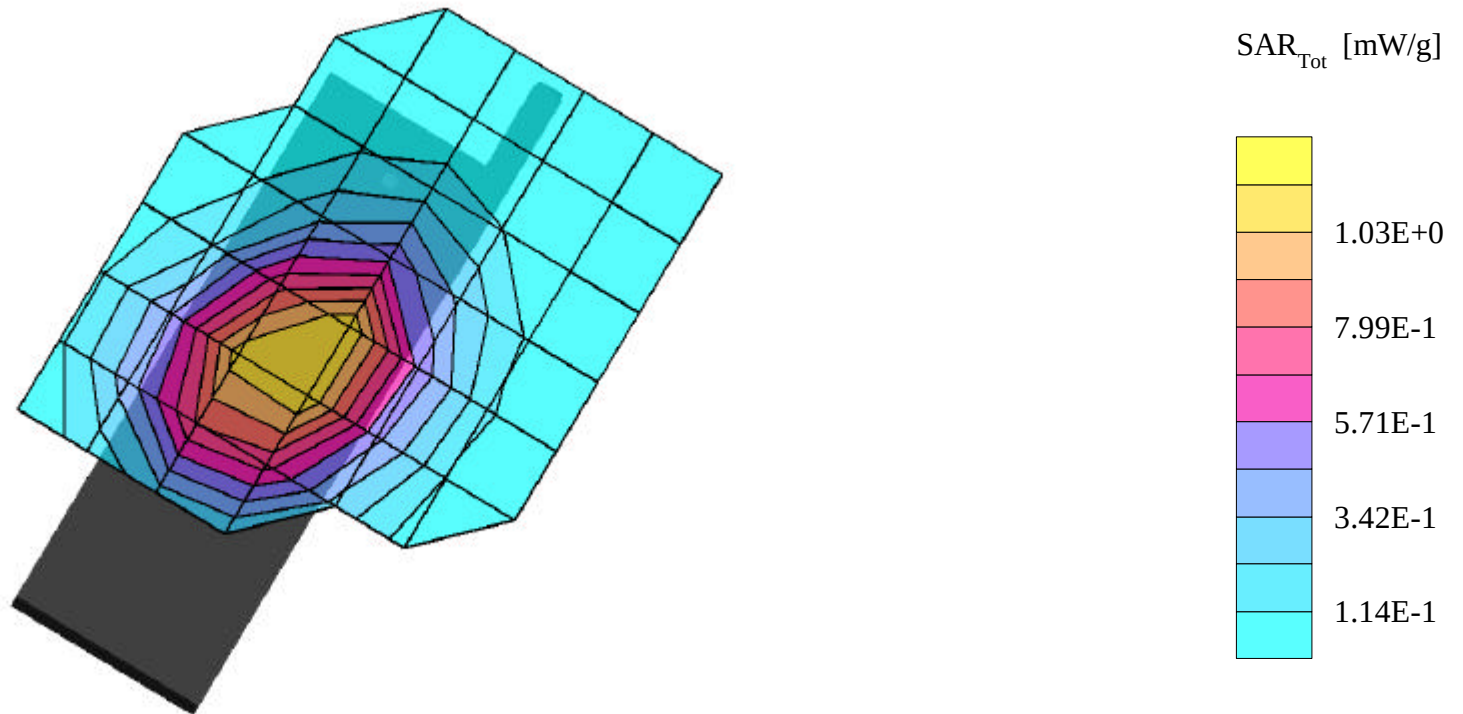
SAR (1g): 1.25 mW/g SAR (10g): 0.859 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

FM Mode, Ch.0383 [836.49]; Standard Battery; Flip = Open

Conducted Power = 26.0dBm; Left Head Phantom, Cheek/Touch Position; Meas. Tissue Temp. (°C) - 21.3

Test Date -- 02/11/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- FM Head SAR

SAM Phantom; Left Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain: $\sigma = 0.92$ mho/m $\epsilon_r = 41.53$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

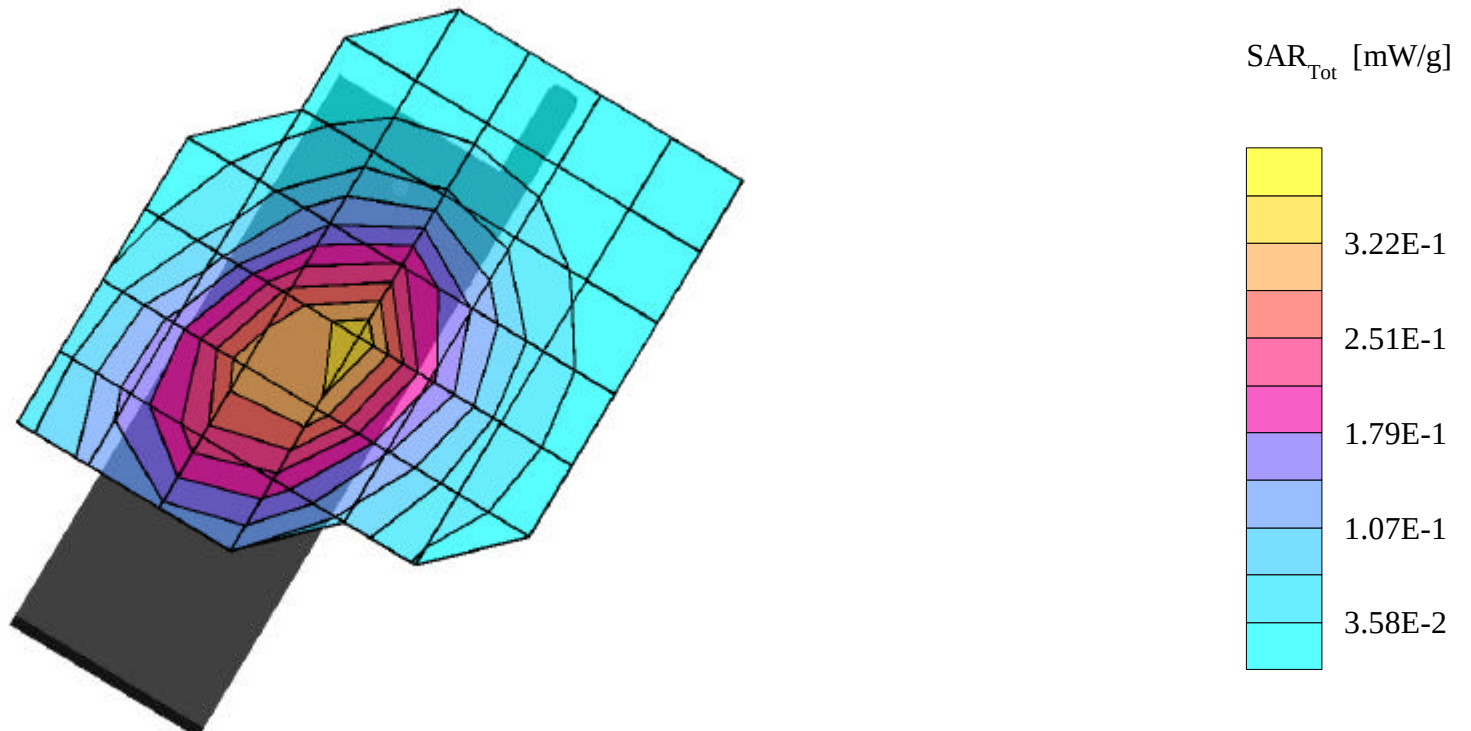
SAR (1g): 0.414 mW/g SAR (10g): 0.290 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

FM Mode, Ch.0383 [836.49]; Standard Battery; Flip = Open

Conducted Power = 26.0dBm; Left Head Phantom, Ear/15degree Tilt Position; Meas. Tissue Temp. (°C) - 21.3

Test Date -- 02/11/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- Cellular CDMA Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(6.78,6.78,6.78)

Med. Parameters 835 MHz Brain: $\sigma = 0.92$ mho/m $\epsilon_r = 41.53$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

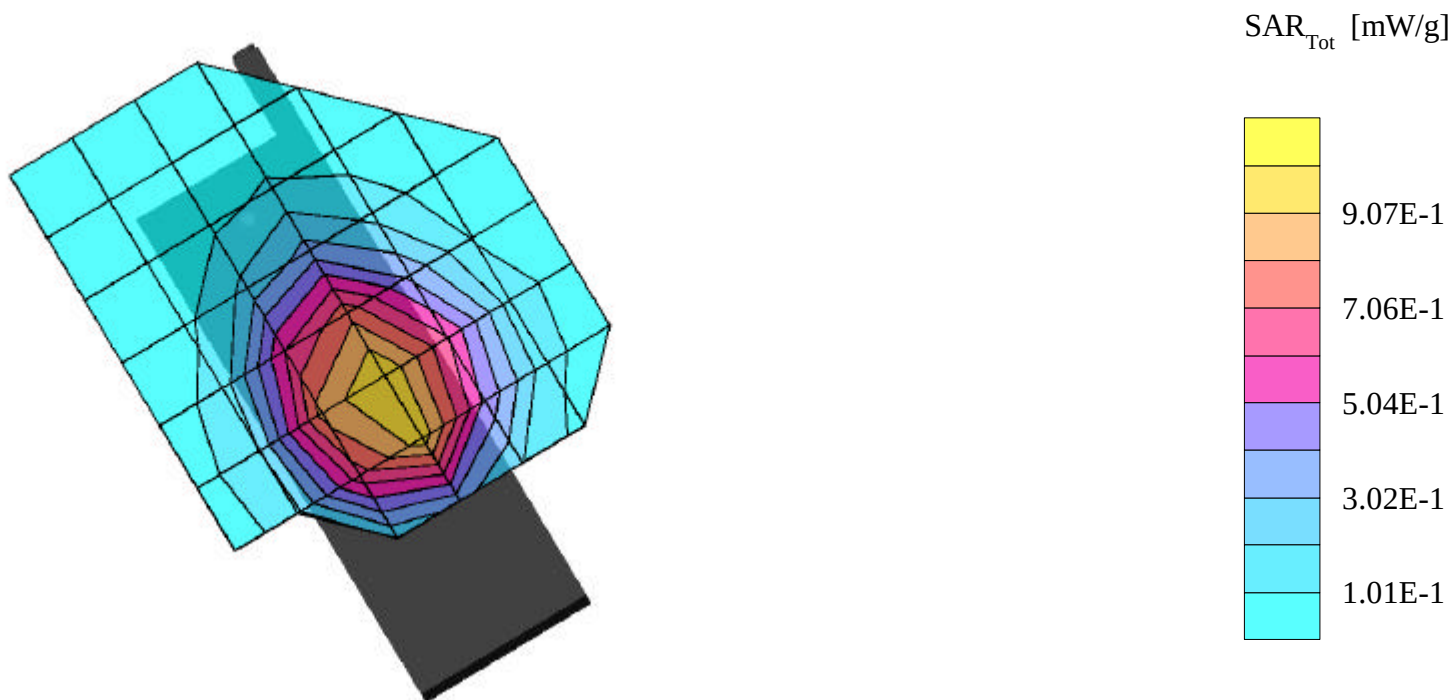
SAR (1g): 1.01 mW/g SAR (10g): 0.754 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

Cellular CDMA Mode, Ch.0383 [836.49]; Standard Battery; Flip = Open

Conducted Power = 25.0dBm; Right Head Phantom, Cheek/Touch Position; Meas. Tissue Temp. (°C) - 21.3

Test Date -- 02/11/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- PCS CDMA Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(5.16,5.16,5.16)

Med. Parameters 1900 MHz Brain: $\sigma = 1.42$ mho/m $\epsilon_r = 40.04$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

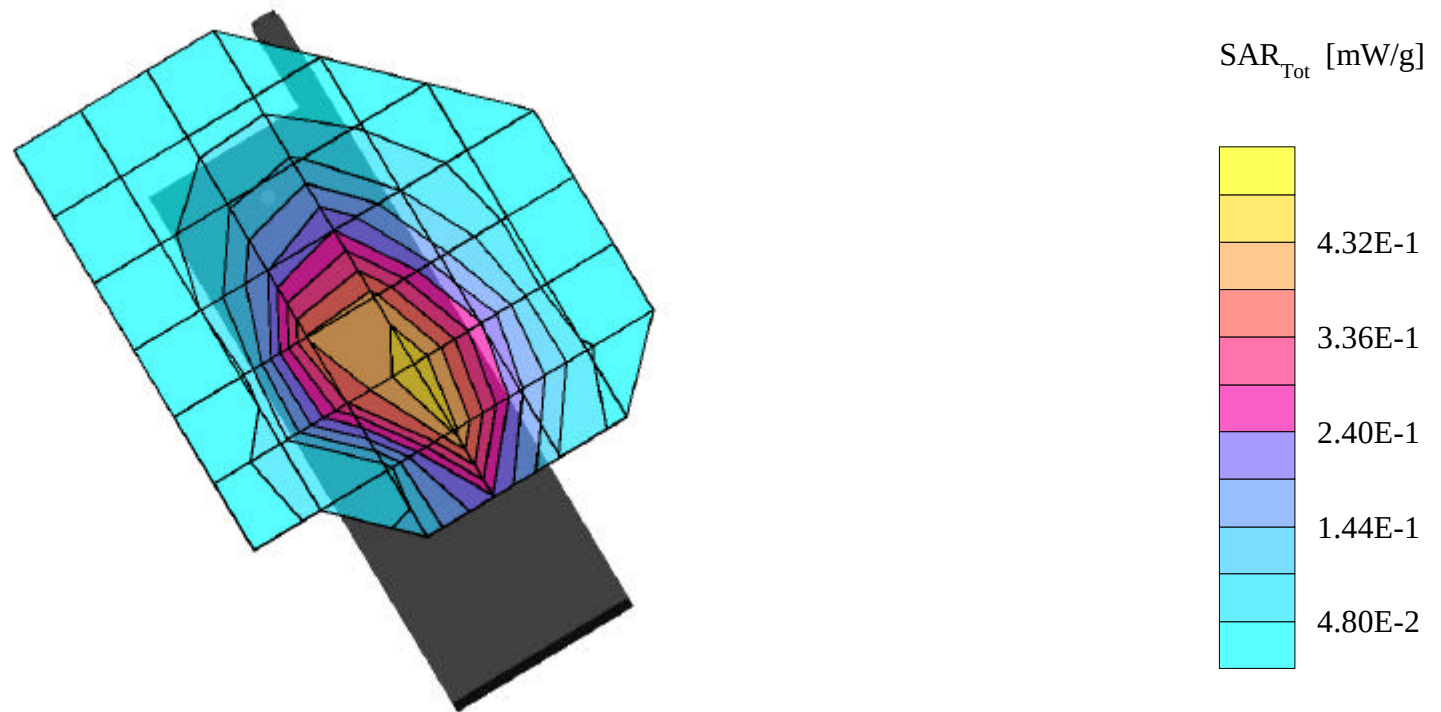
SAR (1g): 0.615 mW/g, SAR (10g): 0.329 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

PCS CDMA Mode, Ch.0025 [1851.25]; Standard Battery; Flip = Open

Conducted Power = 25.0dBm; Right Head Phantom, Cheek/Touch Position; Meas. Tissue Temp. (°C) - 21.5

Test Date -- 02/08/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- PCS CDMA Head SAR

SAM Phantom; Right Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(5.16,5.16,5.16)

Med. Parameters 1900 MHz Brain: $\sigma = 1.42$ mho/m $\epsilon_r = 40.04$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

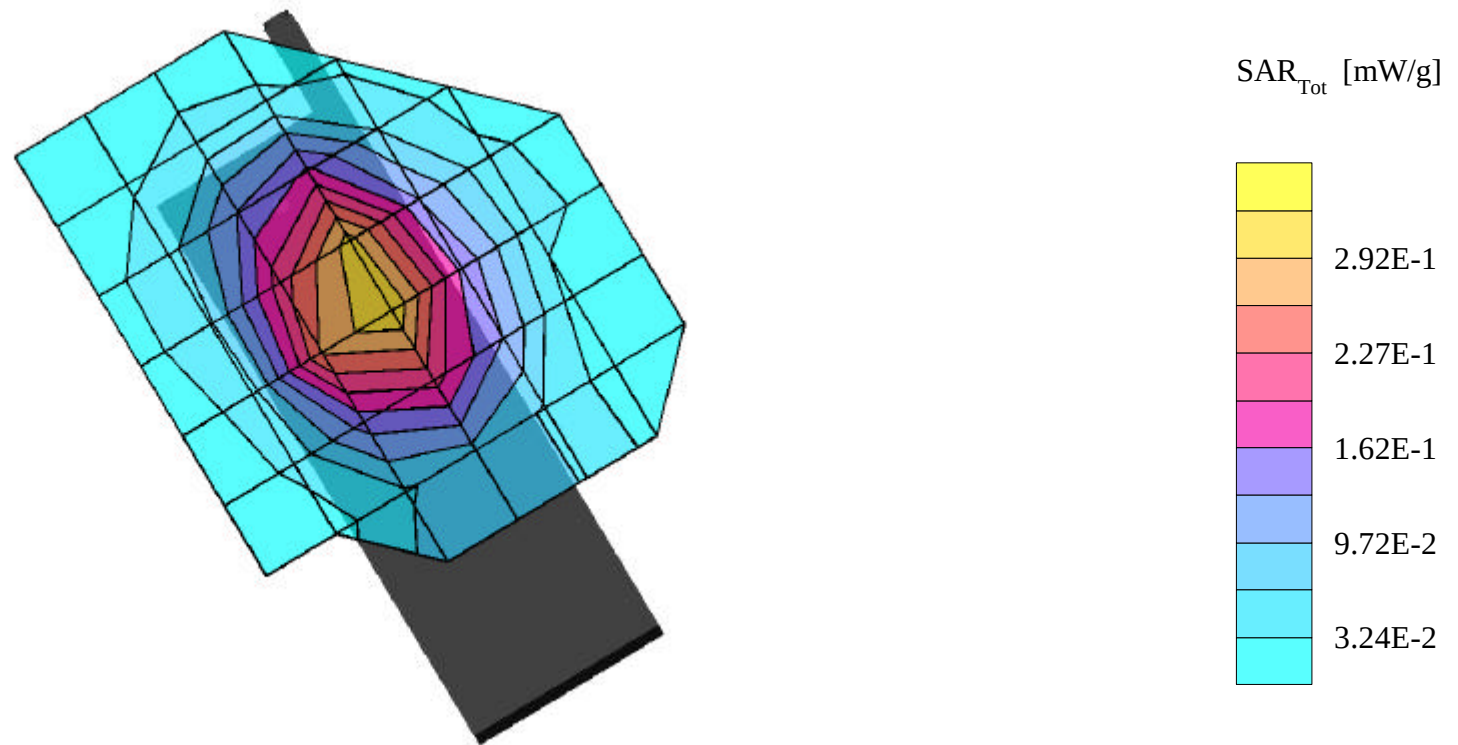
SAR (1g): 0.356 mW/g, SAR (10g): 0.231 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

PCS CDMA Mode, Ch.0025 [1851.25]; Standard Battery; Flip = Open

Conducted Power = 25.0dBm; Right Head Phantom, Ear/15degree Tilt Position; Meas. Tissue Temp. (°C) - 21.5

Test Date -- 02/08/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- PCS CDMA Head SAR

SAM Phantom; Left Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(5.16,5.16,5.16)

Med. Parameters 1900 MHz Brain: $\sigma = 1.42$ mho/m $\epsilon_r = 40.04$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

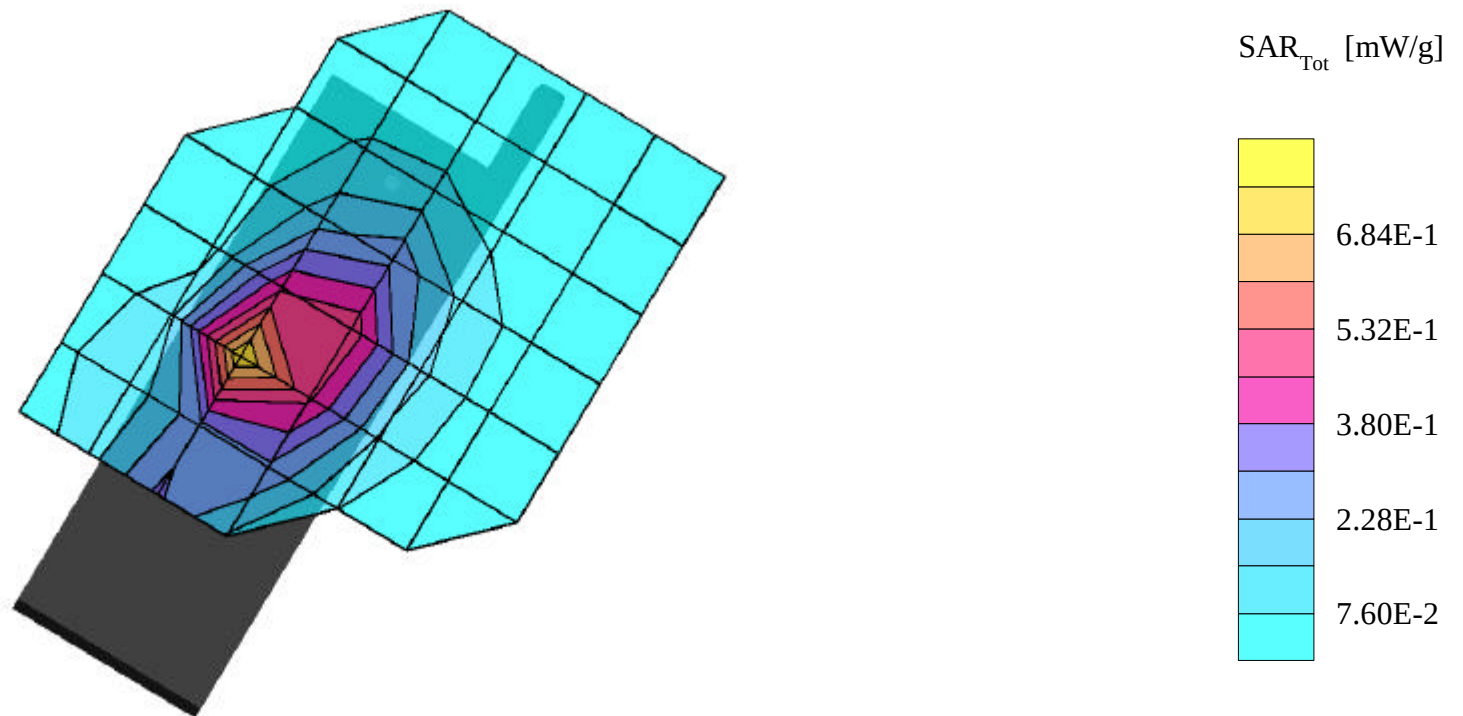
SAR (1g): 0.721 mW/g, SAR (10g): 0.413 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

PCS CDMA Mode, Ch.0600 [1880.00]; Standard Battery; Flip = Open

Conducted Power = 25.0dBm; Left Head Phantom, Cheek/Touch Position; Meas. Tissue Temp. (°C) - 21.5

Test Date -- 02/08/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- PCS CDMA Head SAR

SAM Phantom; Left Hand Section; Probe:ET3DV6 - SN1560 -- ConvF(5.16,5.16,5.16)

Med. Parameters 1900 MHz Brain: $\sigma = 1.42$ mho/m $\epsilon_r = 40.04$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

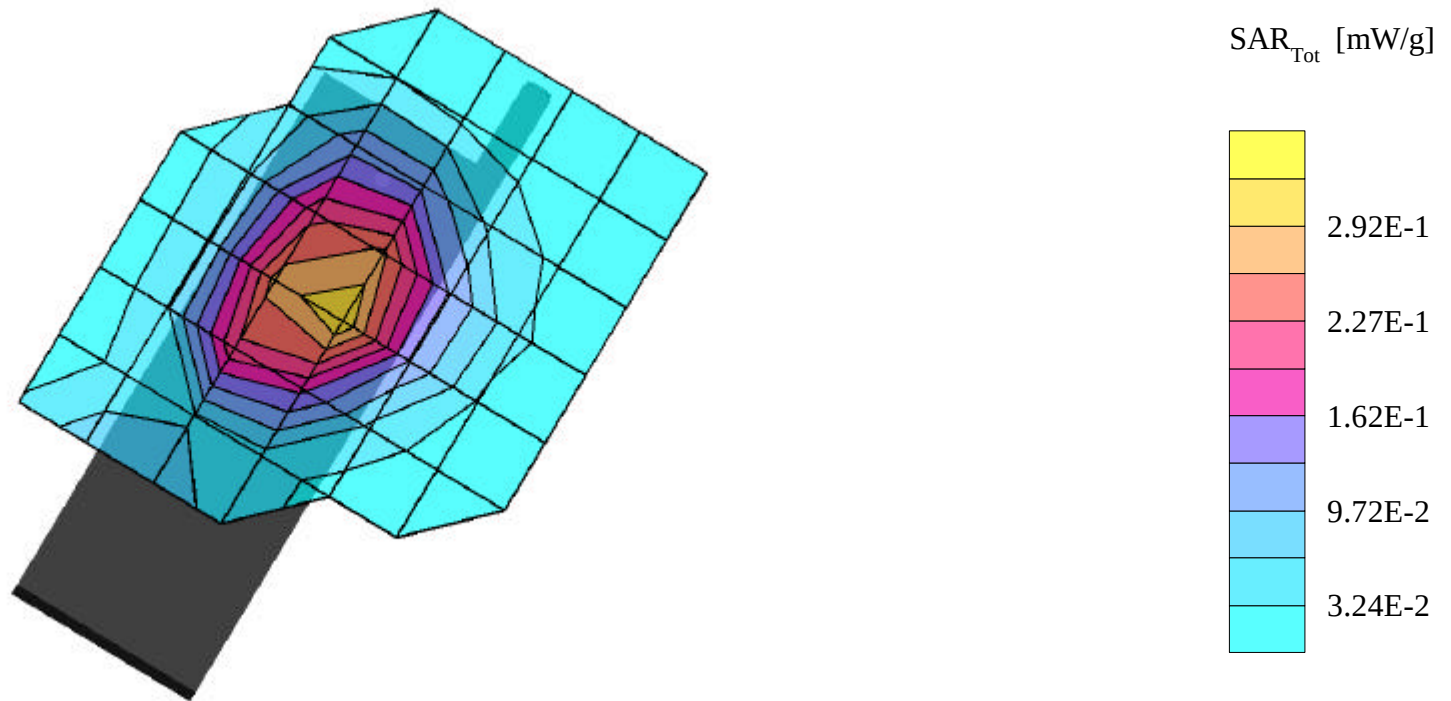
SAR (1g): 0.358 mW/g, SAR (10g): 0.221 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

PCS CDMA Mode, Ch.0600 [1880.00]; Standard Battery; Flip = Open

Conducted Power = 25.0dBm; Left Head Phantom, Ear/15degree Tilt Position; Meas. Tissue Temp. (°C) - 21.5

Test Date -- 02/08/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001]



SAMSUNG FCC ID: A3LSPHN400 -- FM Body SAR

SAM Phantom; Flat Section; Probe:ET3DV6 - SN1560 -- ConvF(6.52,6.52,6.52)

Med. Parameters 835 MHz Muscle: $\sigma = 0.99$ mho/m $\epsilon_r = 55.24$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

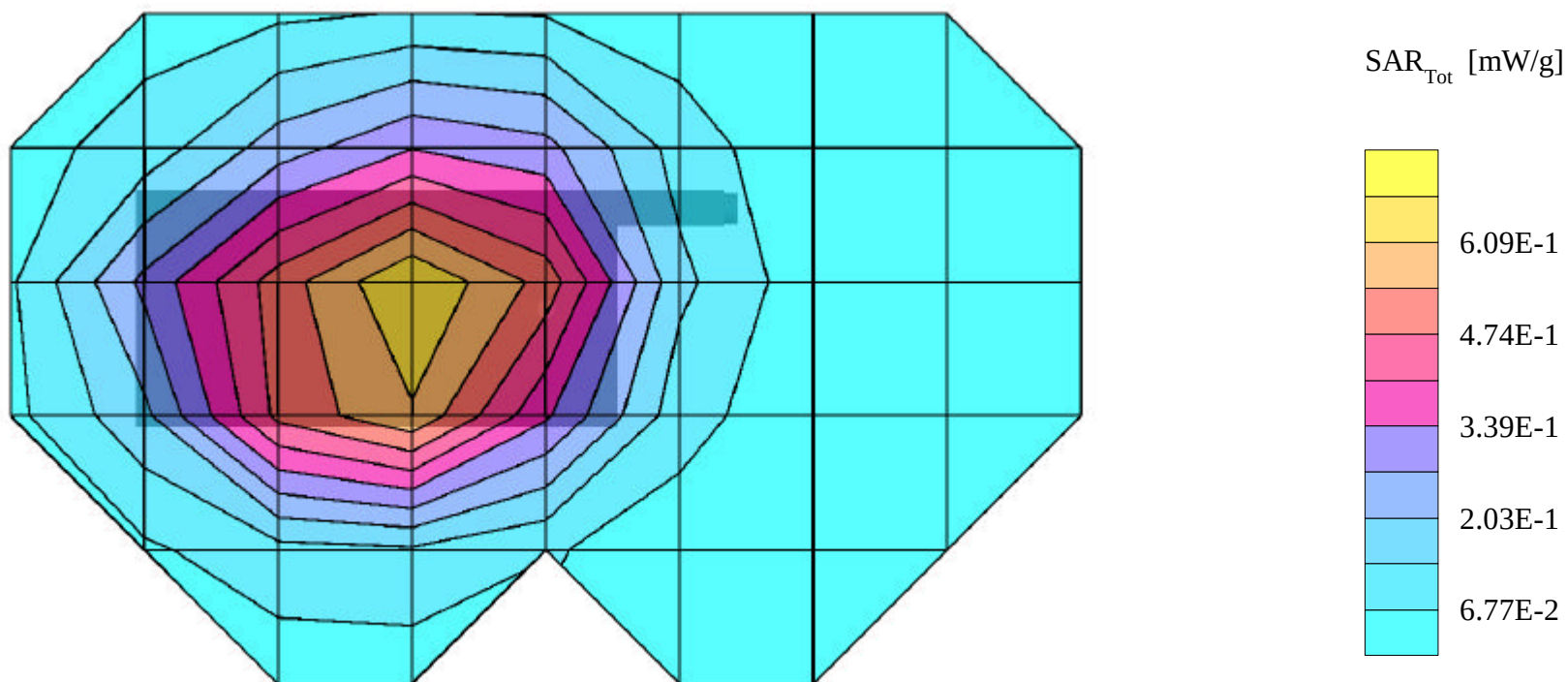
SAR (1g): 1.10 mW/g SAR (10g): 0.764 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

FM Mode, Ch.0383 [836.49]; Standard Battery; Flat Phantom; Flip = Closed

Conducted Power = 26.0dBm; Spacing = 1.5cm from back (antenna side) of EUT, No BeltClip/No Holster

Test Date -- 02/12/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001] Meas. Tissue Temp. (°C) - 21.5



SAMSUNG FCC ID: A3LSPHN400 -- Cellular CDMA Body SAR

SAM Phantom; Flat Section; Probe:ET3DV6 - SN1560 -- ConvF(6.52,6.52,6.52)

Med. Parameters 835 MHz Muscle: $\sigma = 0.99$ mho/m $\epsilon_r = 55.24$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

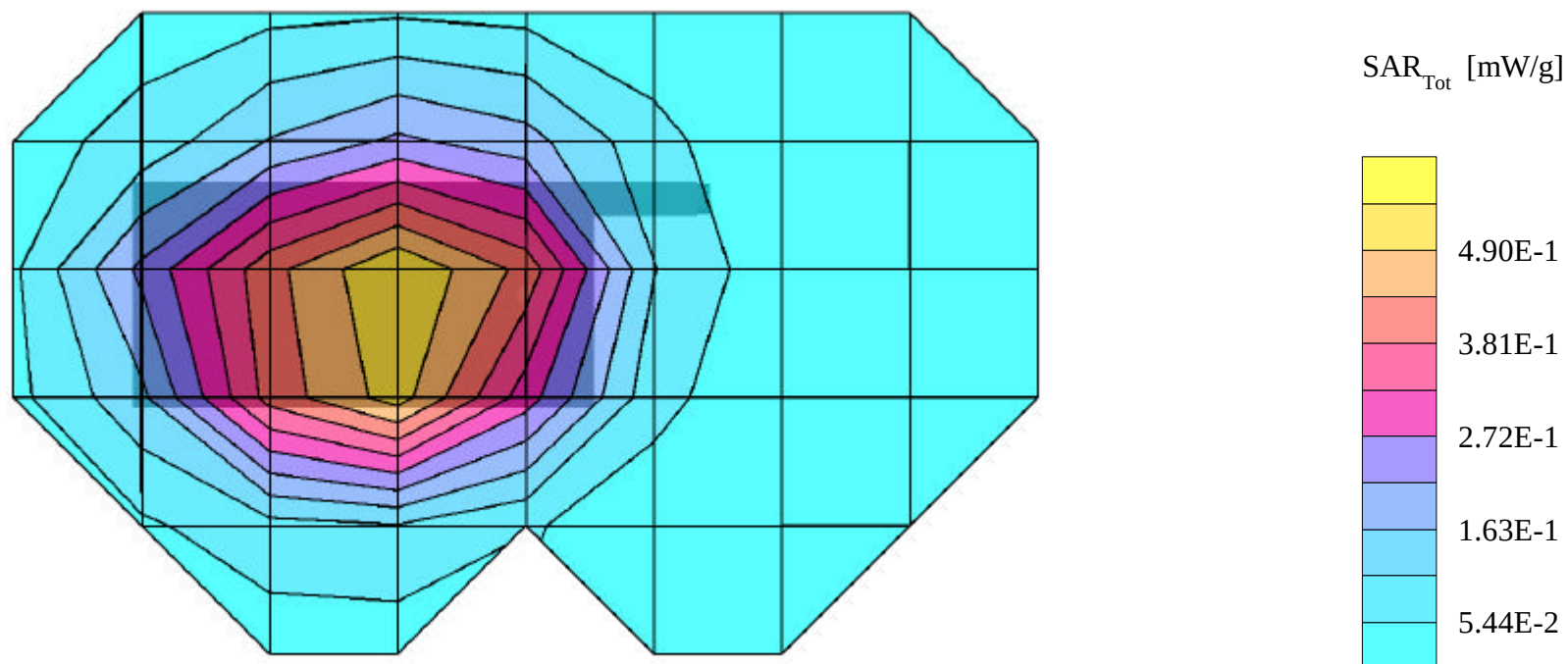
SAR (1g): 0.848 mW/g, SAR (10g): 0.583 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

Cellular CDMA Mode, Ch.0383 [836.49]; Standard Battery; Flat Phantom; Flip = Closed

Conducted Power = 25.0dBm; Spacing = 1.5cm from back (antenna side) of EUT, No BeltClip/No Holster

Test Date -- 02/12/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001] Meas. Tissue Temp. (°C) - 21.4



SAMSUNG FCC ID: A3LSPHN400 -- PCS CDMA Body SAR

SAM Phantom; Flat Section; Probe:ET3DV6 - SN1560 -- ConvF(4.70,4.70,4.70)

Med. Parameters 1900 MHz Muscle: $\sigma = 1.56$ mho/m $\epsilon_r = 53.35$ $\rho = 1.00$ g/cm³; Antenna Position -- In; Crest Factor 1.0

SAR (1g): 1.32 mW/g, SAR (10g): 0.817 mW/g

SAMSUNG TriMode Phone Model: SPHN400/SPHN405

PCS CDMA Mode, Ch.0025 [1851.25]; Standard Battery; Flat Phantom; Flip = Closed

Conducted Power = 25.0dBm; Spacing = 1.5cm from back (antenna side) of EUT, No BeltClip/No Holster

Test Date -- 02/12/2002 [FCC/OET Bulletin 65 - Supplement C, July 2001] Meas. Tissue Temp. (°C) - 21.5

