

DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 3 of 5	
Motorola Solutions, Inc. EME Test Laboratory 8000 West Sunrise Blvd Fort Lauderdale, FL. 33322	Date of Report: 11/01/2012 Report Revision: D Report ID: SR10523 LEX 700 Rev D 110112
<p> Responsible Engineer: Stephen Whalen (Principal Staff Engineer) Report Author: Stephen Whalen (Principal Staff Engineer) Date/s Tested: 5/09/2012 – 6/13/2012; 7/25-26/2012 Manufacturer/Location: Motorola Solutions, Inc./One Motorola Plaza, Holtsville NY 11742-1300, USA Sector/Group/Div.: MSI Date submitted for test: 04/05/2012 DUT Description: The LEX 700 Mission Critical Handheld includes the following connectivity options to the field: " Band 14 Public Safety LTE " Band 13 Verizon Wireless LTE " CDMA2000: CDMA 1x, CDMA 1x EVDO (Rev0, RevA)" 802.11 a/b/g/n Wi-Fi " Mission Critical Wireless and Bluetooth Personal Area Network" Mobile VPN with prioritization. Test TX mode(s): WLAN 802.11a/b/g/n, CDMA/EVDO and LTE Max. Power output: Refer to Section 6 of Part 1 of Report Nominal Power: Refer to Section 6 of Part 1 of Report Tx Frequency Bands: LTE B13: 777-787MHz; LTE B14: 788-798MHz; CDMA (BC0): 824-849MHz, CDMA (BC1): 1850-1910MHz;EVDO (BC0): 824-849MHz, EVDO (BC1): 1850-1910MHz; BT:2402-2480MHz; WLAN802.11 b/g/n:2412-2462MHz, ;WLAN802.11a/n: 5.15-5.25 GHz; 5.25-5.35 GHz; 5.47-5.725 GHz and 5.725-5.85 GHz Signaling type: LTE-FDD (QPSK & 16 QAM); CDMA2000: CDMA 1x, CDMA 1x EVDO (Rev0, RevA) GMSK modulation; Bluetooth FHSS; WLAN (802.11 a/b/g/n), OFDM & DSSS Model(s) Tested: LEX 700 Model(s) Certified: LEX 700 Serial Number(s): 12053522500135; 12053522500224; 12053522500102; 12053522500227 Classification: General Population/Uncontrolled Environment FCC ID: UZ7LEX700; Rule parts 15, 90, 22, 27 & 24 IC: 109AN-LEX700 * Refer to section 15 of part 1 for highest SAR summary results. </p> <p> The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of 1.6 W/kg averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 2.0 W/kg averaged over 10grams of contiguous tissue. </p> <p> Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated. </p>	
<p style="text-align: center;">  Deanna Zakharia EMS EME Lab Senior Resource Manager, Laboratory Director Approval Date: 11/01/2012 </p>	<p style="text-align: center;"> Certification Date: 8/01/2012 Certification No.: L1120801P </p>

Appendix D

System Validation and Dipole Targets

The SAR result indicated on the Manufacture's Calibrated certificate for dipoles are not used due to the following:

- The IEEE1528-2003 and the FCC OET-65 Supplement C, System Verification section recommends that the measured 1-g SAR should be within 10% of the expected target values specified for the specific phantom and RF source used in the system verification measurement.
- SPEAG calibration certificate indicates that the allowed tolerance for the dipole is higher than +/- 10% (e.g. 53.6 +/- 17.0% at k=2 for the D2450V2 S/N 703, 77.3 +/-17.0%, at k=2 for the D5GHzV2 S/N 1017 for the 1g-SAR using head stimulant tissue).
- The allowed tolerances for the probes are also higher than +/- 10% (e.g. 12% at k=2 at 750MHz, 900MHz and 2450MHz, and 13.1%, at k=2 at 5200MHz, 5500MHz and 5800MHz for the probes being used to assess this product).

Due to probe, dipole and system tolerances noted above, the lab averages dipole results across multiple probes to establish a set of averaged targets for each dipole using the following procedure:

- The System Validation was conducted per IEEE1528-2003 and IEC62209-2 Edition 1.0 2010-03 standards using the simulated head tissue and multiple probes that are available and applicable for the dipole under test to verify the System Validation. Results for this dipole are within the measurement system uncertainty of the reference SAR values indicated within IEC62209-2 Edition 1.0 2010-03 when using flat phantom with 2mm thickness is used. These results then are averaged and used as the target for the daily system performance check when the simulated head tissue is used.
- The dipole targets for the body are set immediately following the same process noted above. Since there is no standard referencing the SAR values for the System Validation using the simulated body tissue, the compliant System Validation results using the simulated head tissue are used to justify the use of the System Validation results using the simulated body tissue due to the same setup except for the simulated tissue type.

Note that the target set for the tested dipoles, when using the simulated head tissue, meets the requirement for the system validation per IEEE1528-2003, IEC62209-2 Edition 1.0 2010-03 standards, and the differences between this result and the result from the manufacture's dipole calibration certificates are listed in the table below which are well within the measurement uncertainty of the measurement system at k=2.

Dipole	SPEAG Result	Motorola Target	Delta
D835V2 S/N 427	9.50	9.55	0.5%
D835V2 S/N 435	9.37	9.21	1.7%
D1900V2 S/N 521	39.2	41.34	5.5%
D2450V2 S/N 703	53.6	56.90	6.1%
D5GHzV2 S/N 1017 (5.2GHz)	77.3	81.33	5.2%
D5GHzV2 S/N 1017 (5.5GHz)	83.2	88.00	5.8%
D5GHzV2 S/N 1017 (5.8GHz)	77.2	82.40	6.7%

To assess the isotropic characteristics of the measurement probe, a probe rotation was performed using the "Rotation (1D)" function in the DASY software with a measured isotropy tolerance of +/- 0.5dB.

DIPOLE SAR TARGET - HEAD

Date: 02/02/12 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 401 Ambient Temp.(°C): 21.9

Tissue Characteristics
 Permittivity: 41.2 Phantom Type/SN: OVAL1011
 Conductivity: 0.90 Distance (mm): 15
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 427

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

9.56

Difference from Target

-0.14% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **9.55**

Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3163	9.36	-2.0%	R3
3291	9.60	0.6%	R3
3185	9.68	1.4%	R3
Average	9.5467	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Gene Von Holten Initial: _____

DIPOLE SAR TARGET - BODY

Date: 02/02/12 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 401 Ambient Temp.(°C): 22

Tissue Characteristics

Permittivity: 53.2 Phantom Type/SN: OVAL1020
 Conductivity: 1.00 Distance (mm): 15
 Tissue Temp.(°C): 21.2

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 427

New Target:

Average Measured SAR Value: 8.81 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3185	8.84	0.3%	R3
3291	8.84	0.3%	R3
3163	8.76	-0.6%	R3
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Gene Von Holten Initial: _____

DIPOLE SAR TARGET - HEAD

Date: 03/06/12 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 729 Ambient Temp.(°C): 21.9

Tissue Characteristics
 Permittivity: 39.8 Phantom Type/SN: OVAL1011
 Conductivity: 0.87 Distance (mm): 15
 Tissue Temp.(°C): 21.2

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 435

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

9.56

Difference from Target

-3.63% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **9.21**

Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3163	9.04	-1.9%	R1
3185	9.64	4.6%	R1
3147	8.96	-2.7%	R1
Average	9.2133	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: _____

DIPOLE SAR TARGET - BODY

Date: 03/06/12 Frequency (MHz): 835
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 729 Ambient Temp.(°C): 21.9

Tissue Characteristics

Permittivity: 53.4 Phantom Type/SN: 835
 Conductivity: 1.01 Distance (mm): 15
 Tissue Temp.(°C): 22.3

Reference Source: Dipole Power to Dipole: 250 mW
 Reference SN: 435

New Target:

Average Measured SAR Value: 9.84 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	9.84	0.0%	R1
3185	10.12	2.8%	R1
3163	9.56	-2.8%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: _____

DIPOLE SAR TARGET - HEAD

Date: 09/12/11 Frequency (MHz): 1900
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 401 Ambient Temp.(°C): 22.8

Tissue Characteristics
 Permittivity: 40.3 Phantom Type/SN: DUAL1002-Side A
 Conductivity: 1.46 Distance (mm): 10
 Tissue Temp.(°C): 23

Reference Source: Dipole Power to Dipole: 30 mW
 Reference SN: 521

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

39.7

Difference from Target

4.12% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g): **41.34**

Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3147	41.67	0.8%	R1
3163	42.67	3.2%	R1
3185	39.67	-4.0%	R1
Average	41.3367	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: _____

DIPOLE SAR TARGET - BODY

Date: 09/12/11 Frequency (MHz): 1900
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 401 Ambient Temp.(°C): 22.1

Tissue Characteristics

Permittivity: 53.3 Phantom Type/SN: DUAL1002-Side B
 Conductivity: 1.56 Distance (mm): 10
 Tissue Temp.(°C): 21.3

Reference Source: Dipole Power to Dipole: 30 mW
 Reference SN: 521

New Target:

Average Measured SAR Value: 40.89 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	42.00	2.7%	R1
3163	39.33	-3.8%	R1
3185	41.33	1.1%	R1
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: _____

DIPOLE SAR TARGET - HEAD

Date: 06/19/11 Frequency (MHz): 2450
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 401 Ambient Temp.(°C): 22.1

Tissue Characteristics
 Permittivity: 38.0 Phantom Type/SN: DUAL1003 Side A
 Conductivity: 1.85 Distance (mm): 10
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 50 mW
 Reference SN: 703

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

52.4

Difference from Target

8.59% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g):	56.90
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Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3163	58.60	3.0%	R3
3147	55.20	-3.0%	R3
Average	56.9000	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: ERC

DIPOLE SAR TARGET - BODY

Date: 06/19/11 Frequency (MHz): 2450
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 401 Ambient Temp.(°C): 22.1

Tissue Characteristics

Permittivity: 50.6 Phantom Type/SN: DUAL1003 Side B
 Conductivity: 2.03 Distance (mm): 10
 Tissue Temp.(°C): 21.5

Reference Source: Dipole Power to Dipole: 50 mW
 Reference SN: 703

New Target:

Average Measured SAR Value: 56.50 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3147	56.40	-0.2%	R3
3163	56.60	0.2%	R3
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: Ed Church Initial: EC

DIPOLE SAR TARGET - HEAD

Date: 12/06/11 Frequency (MHz): 5200
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 850 Ambient Temp.(°C): 21.4

Tissue Characteristics
 Permittivity: 33.4 Phantom Type/SN: DUAL1002-Side A
 Conductivity: 4.83 Distance (mm): 10
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW
 Reference SN: 1017

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

76.5

Difference from Target

6.31% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g):	81.33
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Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	81.33	0.0%	R2
Average	81.3300	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

DIPOLE SAR TARGET - BODY

Date: 12/06/11 Frequency (MHz): 5200
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 850 Ambient Temp.(°C): 21.1

Tissue Characteristics
 Permittivity: 46.0 Phantom Type/SN: DUAL1002-Side B
 Conductivity: 4.85 Distance (mm): 10
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW
 Reference SN: 1017

New Target:

Average Measured SAR Value: 80.00 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	80.00	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

DIPOLE SAR TARGET - HEAD

Date: 12/06/11 Frequency (MHz): 5500
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 850 Ambient Temp.(°C): 21.3

Tissue Characteristics
 Permittivity: 32.7 Phantom Type/SN: DUAL1002-Side A
 Conductivity: 5.18 Distance (mm): 10
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 15 mW
 Reference SN: 1017

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

83.3

Difference from Target

5.64% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g):	88.00
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Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	88.00	0.0%	R2
Average	88.0000	New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

DIPOLE SAR TARGET - BODY

Date: 12/06/11 Frequency (MHz): 5500
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics

Permittivity: 45.4 Phantom Type/SN: DUAL1002-Side B
 Conductivity: 5.26 Distance (mm): 10
 Tissue Temp.(°C): 21.4


Reference Source: Dipole Power to Dipole: 15 mW
 Reference SN: 1017

New Target:

Average Measured SAR Value: 86.00 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	86.00	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

DIPOLE SAR TARGET - HEAD

Date: 12/06/11 Frequency (MHz): 5800
 Lab Location: FL08 Mixture Type: IEEE Head
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics
 Permittivity: 32.0 Phantom Type/SN: DUAL1002-Side A
 Conductivity: 5.52 Distance (mm): 10
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 10 mW
 Reference SN: 1017

Target 1g-SAR Value (mW/g, normalized to 1.0 W):

78

Difference from Target

5.64% (1g-SAR)

New Target:

Average 1g-SAR Value (mW/g):	82.40
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Passes K=2

Percent Difference From Target (MUST be within k=2 Uncertainty):

Probe SN #s	1g-SAR (Cube)	Diff from Ave	Robot
3735	82.40	0.0%	R2
Average 82.4000		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial:

DIPOLE SAR TARGET - BODY

Date: 12/06/11 Frequency (MHz): 5800
 Lab Location: FL08 Mixture Type: Body
 DAE Serial #: 850 Ambient Temp.(°C): 21.0

Tissue Characteristics

Permittivity: 44.7 Phantom Type/SN: DUAL1002-Side B
 Conductivity: 5.68 Distance (mm): 10
 Tissue Temp.(°C): 21.4

Reference Source: Dipole Power to Dipole: 10 mW
 Reference SN: 1017

New Target:

Average Measured SAR Value: 76.10 mW/g(1g avg.),

Probe SN #s	1-G Cube	Diff from Ave	Robot
3735	76.10	0.0%	R2
Average		New Measured SAR Value	

(normalized to 1.0 W)

Test performed by: J. Turco Initial: 

Appendix E

WLAN 2.4GHz (802.11b/g/n) Testing

This appendix includes the following SAR Measurement System Verification / DUT Test Methodology / DUT Test Data / System Performance Scans / DUT Scans / and Power Slump Data for model LEX700 - WLAN 2.4 GHz (802.11b/g/n).

E.1 SAR Measurement System Verification

The SAR measurements were conducted with probe model/serial number ES3DV3/3185. System performance checks are conducted daily and within 24 hours of testing. Probe and dipole calibration certificates and dipole targets are included in appendices B, C, D respectively. System performance checks are included in this appendix for WLAN 2.4GHz (802.11b/g/n) testing.

System validation results and dipole targets are provided in Appendix D. The EMS EME lab validated the dipole to the applicable IEEE 1528-2003 system performance targets. Within the same day system validation was performed using FCC body tissue parameters to generate the system performance target values for body at the applicable frequency.

E.1.1 Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements are measured daily and within 24 hours of SAR testing to verify that the tissue is within +/- 5% of target parameters for each tested channel. This measurement is done using the applicable equipment indicated in section 9.0.

The table below summarizes the measured tissue parameters used for the SAR assessment.

TABLE E.1

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
Simulated Tissue Measurements for 2.4 GHz testing						
2412	FCC Body	1.91 (1.82 - 2.01)	52.6 (47.34 – 57.86)	1.94	49.7	5/30/2012
				2.00	48.8	6/11/2012
2437	FCC Body	1.94 (1.84 – 2.04)	52.7 (47.43 – 53.23)	1.94	50.4	5/15/2012
				1.97	49.6	5/30/2012
				1.98	48.8	6/7/2012
				2.02	48.8	6/11/2012
				1.94	48.8	6/12/2012
2450	FCC Body	1.95 (1.85 – 2.05)	52.7 (47.43 – 57.97)	1.95	50.3	5/15/2012
				1.98	49.5	5/30/2012
				1.99	48.8	6/7/2012
				2.02	48.8	6/11/2012
				1.96	48.7	6/12/2012
2462	FCC Body	1.97 (1.87 – 2.07)	52.7 (47.43 – 53.23)	1.98	49.5	5/30/2012
				2.05	48.7	6/11/2012

TABLE E.1 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
Simulated Tissue Measurements for 2.4 GHz testing						
2412	IEEE /IEC Head	1.77 (1.68 – 1.85)	39.3 (35.37 – 42.23)	1.68	37.8	5/9/2012
				1.84	37.5	5/10/2012
				1.75	37.7	5/11/2012
2437	IEEE /IEC Head	1.79 (1.70 - 1.88)	39.2 (35.28 - 43.12)	1.71	37.8	5/9/2012
				1.85	37.4	5/10/2012
2450	IEEE /IEC Head	1.80 (1.71 – 1.89)	39.2 (35.28 – 43.12)	1.74	37.7	5/9/2012
				1.87	37.4	5/10/2012
				1.78	37.3	5/11/2012
				1.86	36.9	5/18/2012
				1.86	40.7	6/7/2012
				1.86	40.5	7/25/2012
2462	IEEE /IEC Head	1.81 (1.72 – 1.90)	39.2 (35.28 – 43.12)	1.76	37.6	5/9/2012
				1.88	37.3	5/10/2012
				1.78	37.3	5/11/2012
				1.87	36.9	5/18/2012
				1.87	40.6	6/7/2012
				1.87	40.5	7/25/2012

E.1.2 System Check Test Results

System performance checks at 2450MHz were conducted each day during the SAR assessment. The results are normalized to 1W. Section E.6 includes DASY plots for each day during the SAR assessment. The table below summarizes the daily system check results used for the SAR assessment.

TABLE E.2

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Reference SAR @ 1W (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
System Check result for 2.4 GHz					
3185	2450 FCC Body	D2450V2 / 703	56.5 +/- 10%	51.33	5/15/2012
				52.20	5/30/2012
				54.70	6/7/2012
				55.20	6/11/2012
				54.20	6/12/2012
3185	2450 IEEE /IEC Head	D2450V2 / 703	56.90 +/- 10%	57.40	5/9/2012
				59.20	5/10/2012
				58.30	5/11/2012
				60.33	5/18/2012
				59.40	6/7/2012
				61.60	7/25/2012

Note: See APPENDIX D for an explanation of the reference SAR targets stated above.

E.2 DUT Test Methodology

E.2.1 Measurements

SAR measurements were performed using the DASY system described in section 8.0 using coarse, zoom and Z axis scans. SAM and Flat phantoms were filled with applicable simulated tissue, which were used for head, face and body testing.

E.2.2 DUT Configuration(s)

The DUT is a portable device as described in section 6.0. This appendix is specific to WLAN 2.4GHz (802.11b/g/n) testing at the body, head, and face using the offered accessories. The device is placed in the test positions as described below for body, head and face. Appendix K illustrates the DUT and offered accessories.

E.2.3 DUT Positioning Procedures

The positioning of the device for each body location is described below and illustrated in Appendix J.

E.2.3.1 Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessory as well as with and without the offered data cable accessory.

E.2.3.2 Head

The DUT was placed against the right and left heads of the SAM phantom in the cheek touch and tilt positions.

E.2.3.3 Face

The DUT was positioned with its' front side separated 2.5cm from the phantom.

E.3 Output Power Data WLAN 2.4GHz (802.11b/g/n)

The tables below represent the output power measurements for WLAN 2.4GHz 802.11b/g/n. These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227 D01 SAR Measurement Procedures for 802.11a/b/g/ Transmitters.

Testing was not done in the 802.11 g and n due to lower maximum power than 802.11b per KDB 248227. Refer to output power measurements in Table E.3.

In some cases the initial power listed herein may exceed the reported maximum power due to software step size tuning limitations. However, the initial powers measured are not greater than 5% of the reported maximum power.

TABLE E.3 - Output Power WLAN 2.4GHz (802.11b/g/n)

Mode	Channel #	Channel Frequency	Modulation	1x Battery: 82-154162-01		2x Battery: 82-154162-02		Main Antenna Max Power [mW]	Diversity Antenna Max Power [mW]
				MAIN Antenna port[mW]	Diversity Antenna port[mW]	MAIN Antenna port[mW]	Diversity Antenna port[mW]		
802.11b (1Mbps)	1	2412	DSSS	47.86	36.31	48.98	38.02	51.30	42.579
	2	2417		46.77	38.90	n/a	n/a		
	6	2437		48.98	39.81	51.29	40.74		
	10	2457		50.12	40.74	n/a	n/a		
	11	2462		51.29	41.69	53.70	44.67		
802.11g (6Mbps)	1	2412	OFDM	34.67	26.92	n/a	n/a	38.10	30.861
	2	2417		35.48	27.54	n/a	n/a		
	6	2437		36.31	31.62	n/a	n/a		
	10	2457		37.15	31.62	n/a	n/a		
	11	2462		38.02	32.36	n/a	n/a		
802.11n (MCS0)	1	2412	OFDM	30.90	25.12	n/a	n/a	33.90	28.815
	2	2417		31.62	25.70	n/a	n/a		
	6	2437		33.11	26.30	n/a	n/a		
	10	2457		35.48	28.18	n/a	n/a		
	11	2462		33.88	29.51	n/a	n/a		

Note – 802.11b was chosen over 802.11 g & n for testing because it has the highest max power.

E.4 DUT Test Data

E.4.1 Assessments at 802.11b (2.412 – 2.462GHz) Test Data

E.4.1.1 Assessments at the Body

Assessment of the holster; The DUT was tested for both WLAN main and diversity antennas with the holster, at mid channel using offered low capacity battery (82-154162-01) & cover (60.15U26.001) without any cable accessory attachment. The DUT was tested in each of four intended orientations within body worn Holster TTN1002A, the orientations are: 1) front/top up (display facing phantom) 2) front/bottom up (display facing phantom) 3) back/top up (battery facing phantom) 4) back/bottom up (battery facing phantom).

Refer to Appendix K for illustration of four orientations.

Assessment of the offered high capacity battery; The DUT was tested with the optional high capacity battery (82-154162-02) & cover (60.15U27.001) using the highest SAR configuration from above.

Assessment of the offered data cable accessory; The DUT was tested with the optional data cable using the highest SAR configuration from above.

Note – USB port access is only applicable to positions 1 & 3 “top up”.

Assessment across the frequencies band edges; The highest test configuration from above; highest orientation per antenna with highest battery and highest w/without data cable was used to test across the frequency band for both WLAN main and diversity antennas.

Table E.4 presents the data of the body assessment. SAR plot(s) are included in section E.7 for the bolded data in Table E.4.

TABLE E.4

Assessments at the Body (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the body – holster with WLAN main antenna												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/top up (display facing phantom)	None	2437	0.04898	-0.48	0.084	0.047	0.098	0.055	CM-Ab-120612-15
			Holster TTN1002A, front/bottom up (display facing phantom)			0.04898	-0.62	0.070	0.037	0.085	0.045	CM-Ab-120612-16
			Holster TTN1002A, back/top up (battery facing phantom)			0.04898	-0.62	0.092	0.047	0.111	0.057	CM-Ab-120612-17
			Holster TTN1002A, back/bottom up (battery facing phantom)			0.04898	-0.47	0.125	0.062	0.146	0.072	CM-Ab-120612-18
Assessment at the body – holster with WLAN diversity antenna												
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/top up (display facing phantom)	None	2437	0.03981	-0.68	0.036	0.020	0.045	0.025	HvH-Ab-120515-03
			Holster TTN1002A, front/bottom up (display facing phantom)			0.03981	-0.47	0.069	0.037	0.082	0.044	HvH-Ab-120515-04
			Holster TTN1002A, back/top up (battery facing phantom)			0.03981	-0.36	0.034	0.020	0.040	0.023	HvH-Ab-120515-05
			Holster TTN1002A, back/bottom up (battery facing phantom)			0.03981	-0.53	0.041	0.023	0.050	0.028	HvH-Ab-120515-06

TABLE E.4 (continued)

Assessments at the Body (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the body – high capacity battery using highest position from above												
Internal WLAN main (25.90AD1.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A , back/bottom up (battery facing phantom)	None	2437	0.05129	-0.36	0.213	0.110	0.231	0.120	ErC-Ab-120607-07
Assessment at the body – data cable using highest battery and applicable position from above												
Note - USB port access is only applicable to “top up” position.												
Internal WLAN main (25.90AD1.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A , back/top up (battery facing phantom)	USB data cable 25-128458-01R	2437	0.05129	-0.37	0.045	0.025	0.049	0.027	CM-Ab-120530-12
Assessment at the body – freq. search WLAN main antenna using highest position from above												
Internal WLAN main (25.90AD1.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, back/bottom up (battery facing phantom)	None	2412	0.04898	-0.67	0.124	0.065	0.152	0.079	CM-Ab-120530-13
Internal WLAN main (25.90AD1.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, back/bottom up (battery facing phantom)	None	2462	0.0537	-0.53	0.060	0.031	0.068	0.035	CM-Ab-120530-14
Assessment at the body – freq. search WLAN diversity antenna using highest diversity orientation and highest battery from above												
Internal WLAN diversity (25.90AD2.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	2412	0.03802	-0.26	0.182	0.094	0.203	0.106	CM-Ab-120611-18
Internal WLAN diversity (25.90AD2.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	2437	0.04074	-0.62	0.088	0.046	0.092	0.048	CM-Ab-120611-19
Internal WLAN diversity (25.90AD2.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	2462	0.04467	-0.67	0.093	0.049	0.093	0.049	CM-Ab-120611-20

E.4.1.2 Assessments at the Head

Assessment of the right ear test positions and applicable frequencies;

The DUT was tested for both WLAN main and diversity antennas at the right ear in the cheek touch position using the offered low capacity battery (82-154162-01) & cover (60.15U26.001) at the center frequency of the band.

Assessment of the offered high capacity battery;

The DUT was tested with the optional high capacity battery (82-154162-02) & cover (60.15U27.001) using the highest SAR configuration from above.

Assessment of the right ear cheek tilt position;

The DUT was tested for both WLAN main and diversity antennas at the right ear in the cheek tilt position using the highest SAR battery from above.

Assessment across the frequencies band edges; The highest test configuration for each antenna with the highest SAR battery from above was used to test across the frequency band for both WLAN main and diversity antennas.

Table E.5 presents the data of the head assessments. SAR plot(s) are included in section E.7 for the bolded data in Table E.5.

TABLE E.5

Assessments at the Head (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the right ear touch – WLAN main and diversity antennas												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2437	0.04898	-0.28	0.383	0.191	0.428	0.213	ErC-Rear-120509-10
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2437	0.03981	-0.40	0.166	0.084	0.195	0.099	ErC-Rear-120509-03
Assessment at the right ear touch – high capacity battery using highest position from above												
Internal WLAN main (25.90AD1.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Cheek touch	None	None	2437	0.05129	-0.20	0.343	0.174	0.359	0.182	ErC-Rear-120509-04
Assessment at the right ear tilt – WLAN main and diversity antennas												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2437	0.04898	-0.07	0.168	0.088	0.179	0.093	ErC-Rear-120509-05
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2437	0.03981	-0.27	0.099	0.051	0.112	0.058	ErC-Rear-120509-06

TABLE E.5 (continued)

Assessments at the Head (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the right ear touch- freq. search WLAN main antenna using highest position from above for main antenna												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2412	0.04786	-0.36	0.347	0.174	0.404	0.203	ErC-Rear-120509-07
Internal WLAN main (25.90AD1.00)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2462	0.05129	-0.31	0.440	0.222	0.473	0.238	ErC-Rear-120509-08
Assessment at the right ear touch - freq. search WLAN diversity antenna using highest position from above for diversity antenna												
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2412	0.03631	0.05	0.147	0.075	0.172	0.088	ErC-Rear-120509-09
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2462	0.04169	-0.15	0.137	0.069	0.145	0.073	ErC-Rear-120509-11

Assessment of the left ear test positions and applicable frequencies;

The DUT was tested for both WLAN main and diversity antennas at the left ear in cheek touch position using the highest battery from right ear assessment.

Assessment of the left ear cheek tilt position; The DUT was tested for both WLAN main and diversity antennas at the left ear in the cheek tilt position using the highest battery from right ear assessment.

Assessment across the frequencies band edges; The highest test configuration from above for each antenna was used to test across the frequency band for both WLAN main and diversity antennas.

Table E.6 presents the data of the head assessments. SAR plot(s) are included in section E.7 for the bolded data in Table E.6.

TABLE E.6

Assessments at the Head (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the left ear touch – WLAN main and diversity antennas												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2437	0.04898	-0.23	0.175	0.099	0.193	0.109	ErC-Lear-120509-12
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2437	0.03981	-0.26	0.363	0.166	0.412	0.189	ErC-Lear-120509-13
Assessment at the left ear tilt – WLAN main and diversity antennas												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2437	0.04898	-0.37	0.252	0.141	0.287	0.161	ErC-Lear-120509-14
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2437	0.03981	-0.28	0.191	0.093	0.218	0.106	ErC-Lear-120509-15
Assessment at the left ear tilt- freq. search WLAN main antenna using highest position from above for main antenna												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2412	0.04786	-0.40	0.083	0.047	0.098	0.055	ErC-Lear-120511-13
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	2462	0.05129	-0.20	0.108	0.060	0.113	0.063	ErC-Lear-120511-14
Assessment at the left ear touch - freq. search WLAN diversity antenna using highest position from above for diversity antenna												
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2412	0.03631	-0.52	0.339	0.159	0.448	0.210	ErC-Lear-120510-02
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2462	0.04169	-0.10	0.387	0.179	0.404	0.187	ErC-Lear-120510-03

E.4.1.3 Assessments at the Face

Assessment of the applicable frequencies;

The DUT was tested using the battery with the highest SAR from right ear for both WLAN main and diversity antennas across the band.

Table E.7 presents the data of the face assessments. SAR plot(s) are included in section E.7 for the bolded data in Table E.7.

TABLE E.7

Assessments at the Face (WLAN 802.11b) 2.412-2.462GHz band												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the face – 2.5cm WLAN main antenna												
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2412	0.04786	-0.53	0.028	0.016	0.034	0.020	ErC-Face-120510-04
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2437	0.04898	-0.22	0.032	0.018	0.035	0.020	ErC-Face-120510-05
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2462	0.05129	-0.54	0.033	0.019	0.037	0.021	ErC-Face-120510-06
Assessment at the face – 2.5cm WLAN diversity antenna												
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2412	0.03631	-0.46	0.019	0.011	0.025	0.014	ErC-Face-120510-08
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2437	0.03981	-0.33	0.019	0.010	0.022	0.012	ErC-Face-120510-09
Internal WLAN diversity (25.90AD2.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	2462	0.04169	-0.27	0.020	0.011	0.022	0.012	ErC-Face-120510-10

E.4.1.4 Shorten Scan Assessment

Short scan assessment A “shortened” scan was performed to validate the SAR drift of the full DASY5™ coarse and 5x5x7 zoom scans. Note that the shortened scan represents the zoom scan performance result; this is obtained by first running a coarse scan to find the peak area and then, using a newly charged battery, a 5x5x7 zoom scan only was performed. The results of the shortened cube scan presented in this appendix demonstrate that the scaling methodology used to determine the calculated SAR results presented herein are valid. The SAR result from the table below is provided in section E.7.

TABLE E.8

Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Internal WLAN main (25.90AD1.00)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2462	0.05129	-0.31	0.440	0.222	0.473	0.238	Full scan ErC-Rear-120509-08
Internal WLAN main (25.90AD1.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	2462	0.05129	-0.25	0.426	0.214	0.451	0.227	Short Scan CM-Rear-120725-13

E.5 Conclusion

The highest Operational Maximum Calculated 1-gram and 10-gram average SAR values found for WLAN 2.4GHz 802.11b for Model LEX 700

TABLE E.9

Frequency	Max Calc at Body (mW/g)		Max Calc at Face (mW/g)		Max Calc at Head (mW/g)	
	1g-SAR	10g-SAR	1g-SAR	10g-SAR	1g-SAR	10g-SAR
802.11b 2.412-2.462 GHz	0.231	0.120	0.037	0.021	0.473	0.238

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of **1.6 W/kg** averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing.

E.6 System Performance Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/9/2012 5:30:48 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 2450H-120509-01
 Dipole Model#: D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.9 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.9 mW/g (1g)
 Adjusted SAR (1W): 57.4 mW/g (1g)
 Percent from Target (+/-): 0.9 % (1g)
 Rotation (1D): 0.24 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 37.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

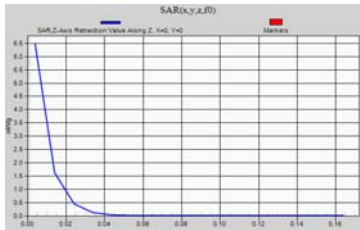
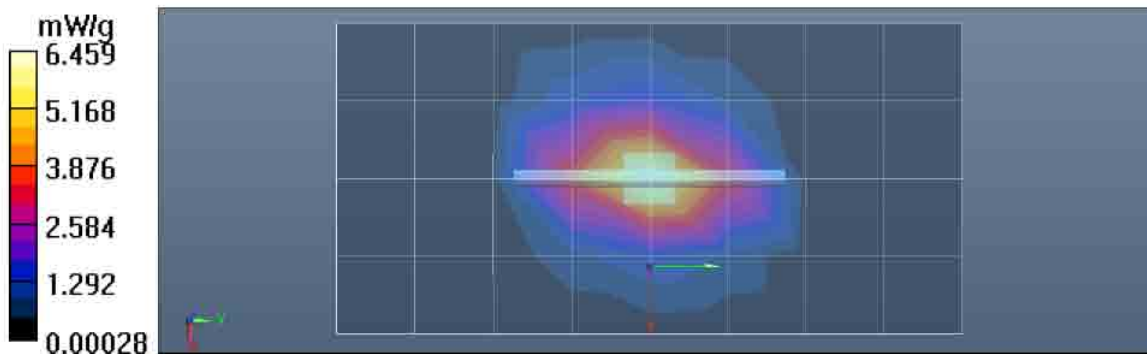
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 6.46 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 62.087 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 11.977 mW/g
SAR(1 g) = 5.74 mW/g; SAR(10 g) = 2.65 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.37 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.47 mW/g



Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/10/2012 5:24:13 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 2450H-120510-01
 Dipole Model# D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.9 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.9 mW/g (1g)
 Adjusted SAR (1W): 59.2 mW/g (1g)
 Percent from Target (+/-): 4.0 % (1g)
 Rotation (1D): 0.15 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 37.4$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

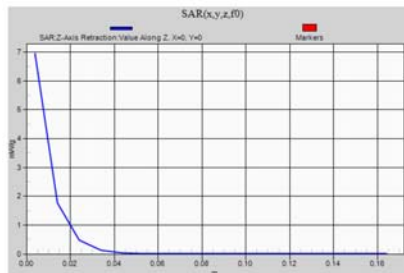
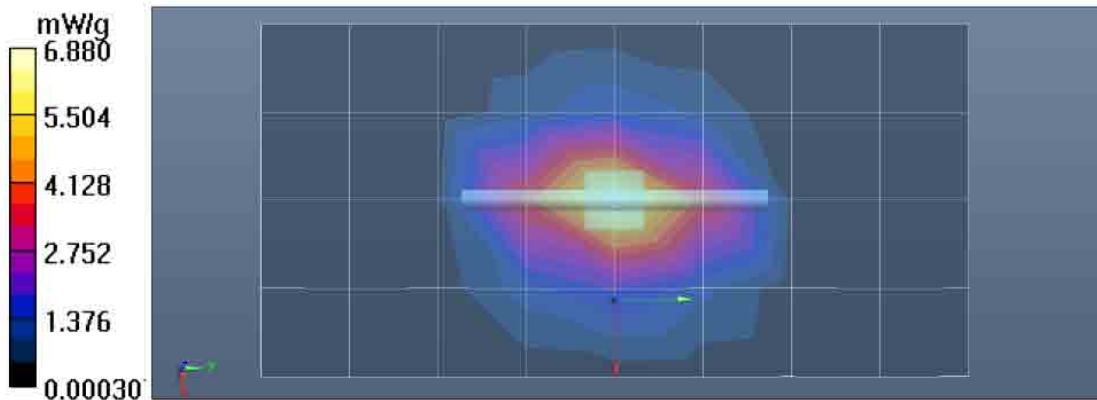
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 6.88 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 61.855 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 12.719 mW/g
SAR(1 g) = 5.92 mW/g; SAR(10 g) = 2.78 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.87 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.94 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/11/2012 5:30:04 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP 2450H-120511-01
 Dipole Model# D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.9 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.9 mW/g (1g)
 Adjusted SAR (1W): 58.3 mW/g (1g)
 Percent from Target (+/-): 2.5 % (1g)
 Rotation (1D): 0.24 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

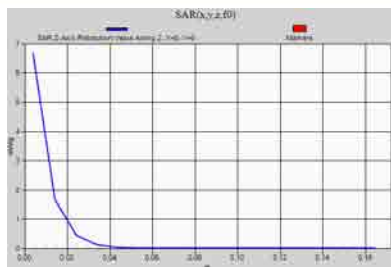
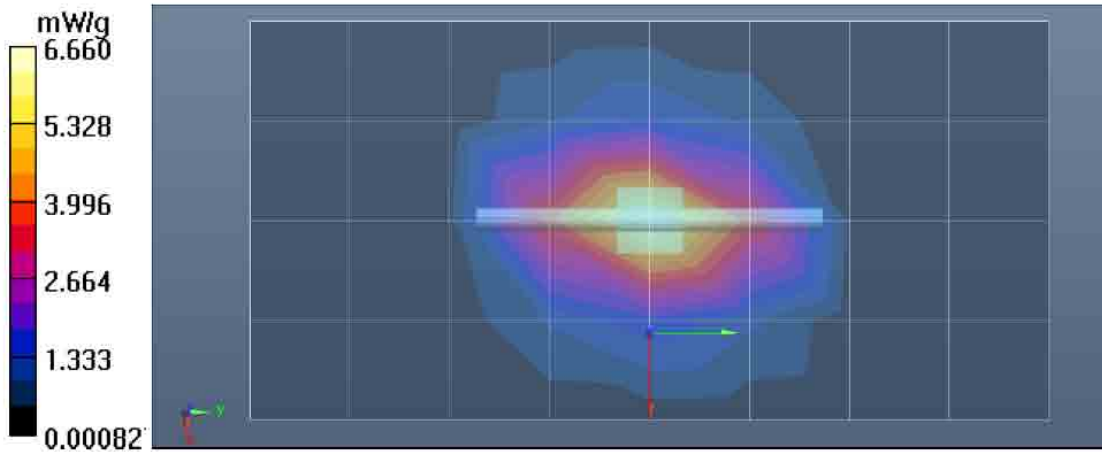
Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 6.66 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 62.198 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 12.281 mW/g
SAR(1 g) = 5.83 mW/g; SAR(10 g) = 2.7 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.59 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/15/2012 7:24:33 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-2450B-120515-01
 Dipole Model#: D2450V2
 Phantom#: TRIPLE1117 - 3
 Tissue Temp.: 21.3 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 56.50 mW/g (1g)
 Adjusted SAR (1W): 51.33 mW/g (1g)
 Percent from Target (+/-): 9.1 % (1g)
 Rotation (1D): 0.17 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 50.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

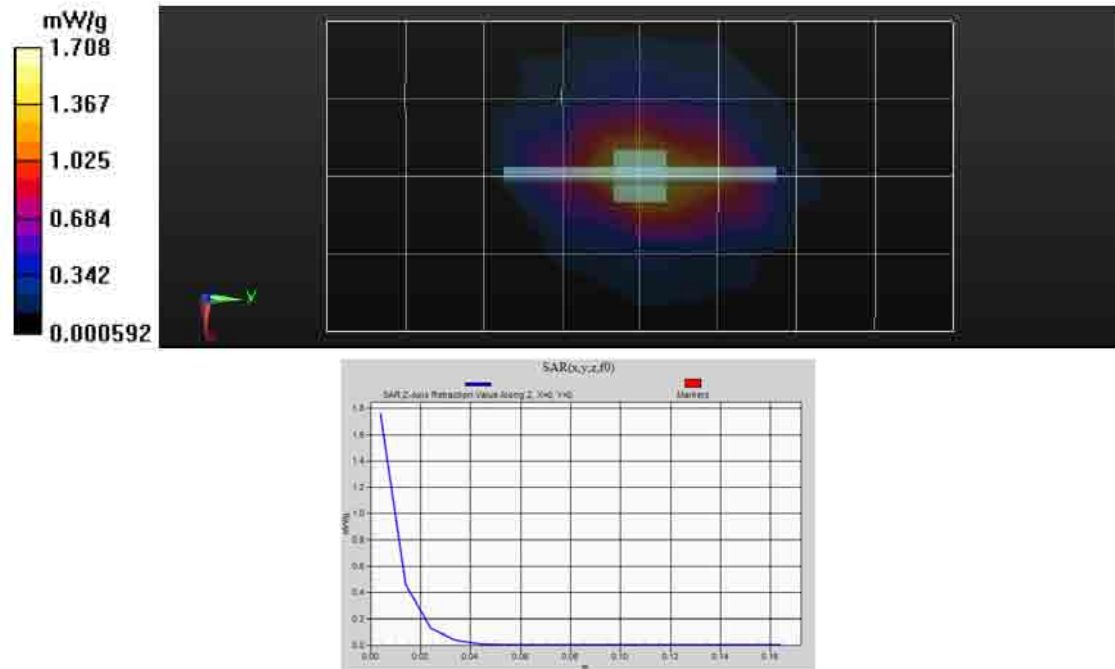
Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 30.147 V/m; Power Drift = 0.02 dB
 Fast SAR: SAR(1 g) = 1.52 mW/g; SAR(10 g) = 0.653 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.85 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 30.147 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 3.341 mW/g
 SAR(1 g) = 1.54 mW/g; SAR(10 g) = 0.713 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.76 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/18/2012 10:07:12 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-2450H-120518-01
 Dipole Model#: D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.5 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 56.90 mW/g (1g)
 Adjusted SAR (1W): 60.33 mW/g (1g)
 Percent from Target (+/-): 6.0 % (1g)
 Rotation (1D): 0.17 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 36.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

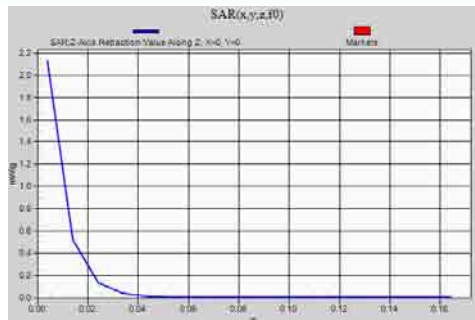
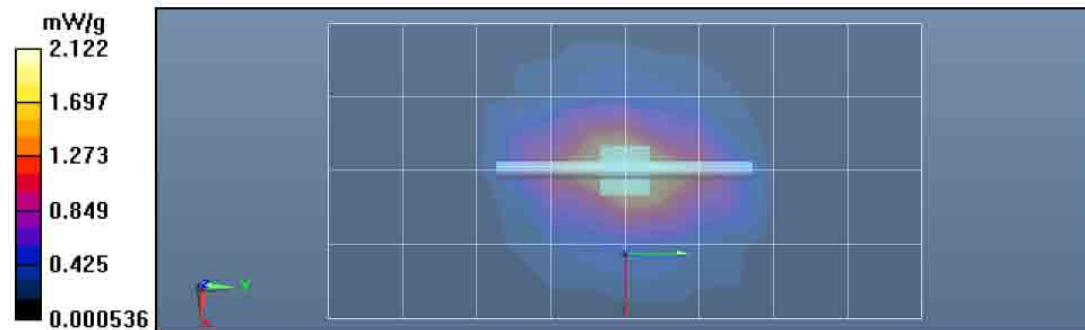
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 34.461 V/m; Power Drift = 0.00 dB
Fast SAR: SAR(1 g) = 1.8 mW/g; SAR(10 g) = 0.792 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 2.13 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 34.461 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 4.002 mW/g
SAR(1 g) = 1.81 mW/g; SAR(10 g) = 0.841 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.09 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.13 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/30/2012 4:23:57 PM

Robot#: DASY5-FL-3 | Run#: CM-SYSP-2450B-120530-09
 Dipole Model# D2450V2
 Phantom#: TRIPLE1117 - 2
 Tissue Temp: 20.9 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.50 mW/g (1g)
 Adjusted SAR (1W): 52.20 mW/g (1g)
 Percent from Target (+/-): 7.6 %
 Rotation (1D): 0.17 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 49.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, . ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

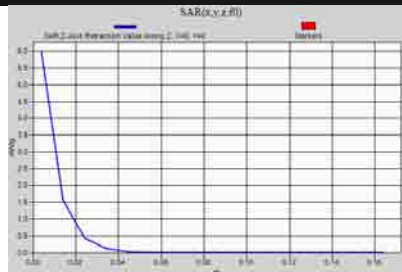
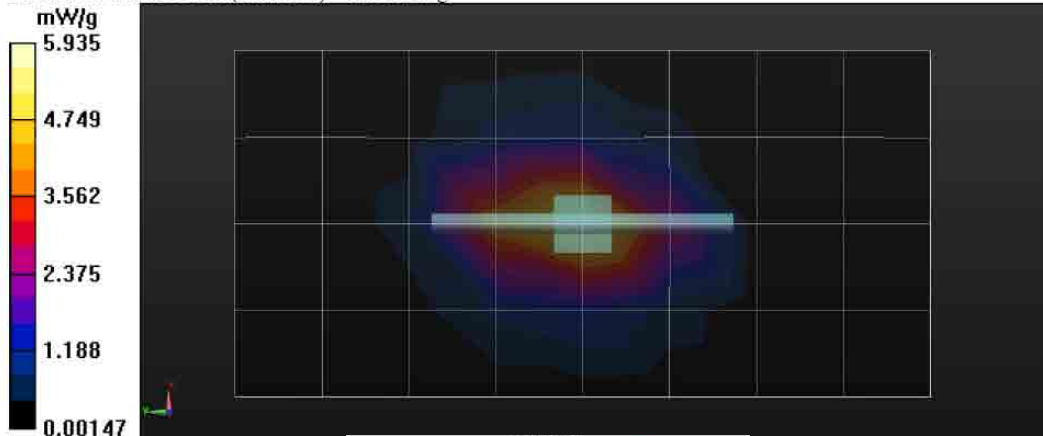
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 55.384 V/m; Power Drift = 0.02 dB
Fast SAR: SAR(1 g) = 5.13 mW/g; SAR(10 g) = 2.2 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 6.35 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 55.384 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 11.435 mW/g
SAR(1 g) = 5.22 mW/g; SAR(10 g) = 2.43 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 5.90 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 5.98 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/7/2012 10:34:03 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-2450B-120607-06
 Dipole Model#: D2450V2
 Phantom#: OVAL1022
 Tissue Temp: 21.2 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.50 mW/g (1g)
 Adjusted SAR (1W): 54.70 mW/g (1g)
 Percent from Target (+/-): 3.2 % (1g)
 Rotation (1D): 0.15 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.99$ mho/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

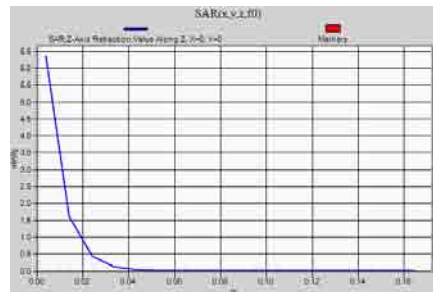
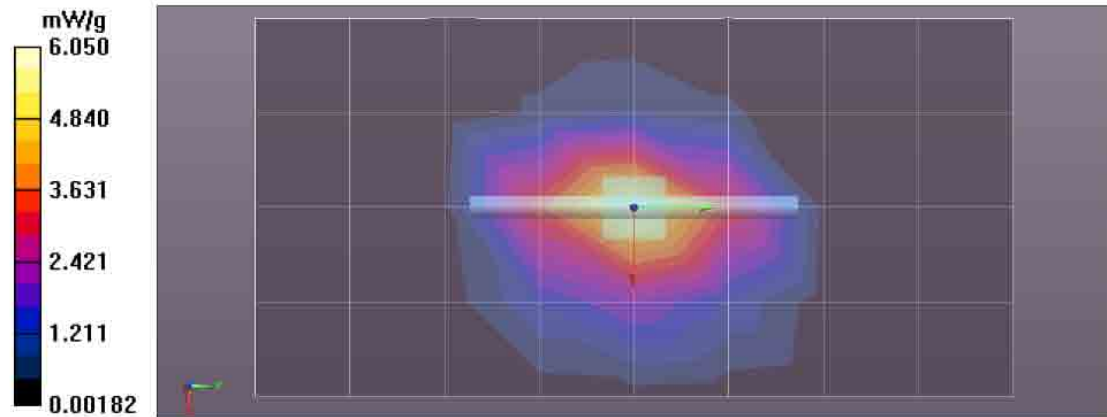
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 6.05 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 57.040 V/m; Power Drift = 0.02 dB
 Peak SAR (extrapolated) = 12.112 mW/g
SAR(1 g) = 5.47 mW/g; SAR(10 g) = 2.52 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.33 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.36 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/7/2012 12:10:19 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-2450H-120607-08
 Dipole Model#: D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.2 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.90 mW/g (1g)
 Adjusted SAR (1W): 59.40 mW/g (1g)
 Percent from Target (+/-): 4.4 % (1g)
 Rotation (1D): 0.15 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 2450$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

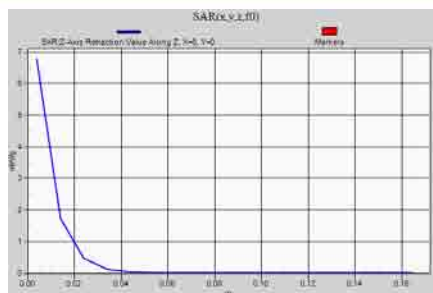
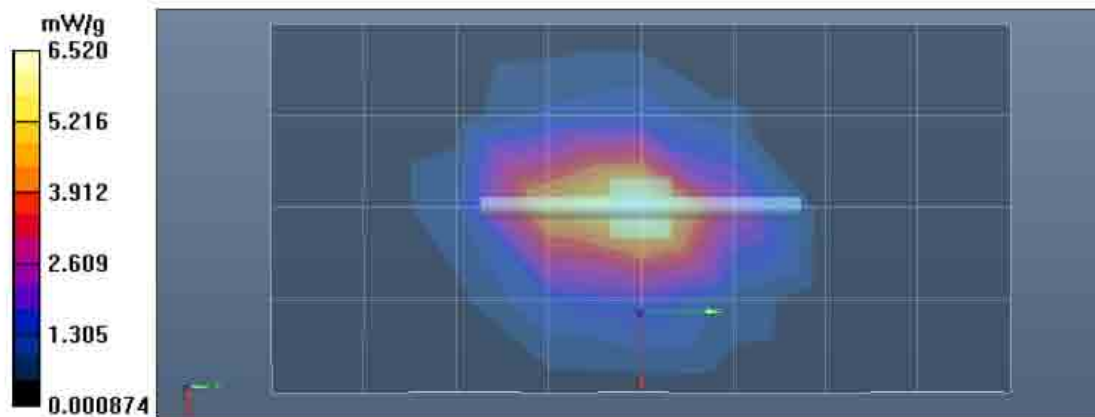
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 6.52 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 61.142 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 12.573 mW/g
SAR(1 g) = 5.94 mW/g; SAR(10 g) = 2.76 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.69 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.78 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/11/2012 8:28:05 PM

Robot#: DASY5-FL-3 | Run#: CM-SYSP-2450B-120611-17
 Dipole Model# D2450V2
 Phantom#: OVAL1022
 Tissue Temp: 20.6 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.50 mW/g (1g)
 Adjusted SAR (1W): 55.20 mW/g (1g)
 Percent from Target (+/-): 2.3 % (1g)
 Rotation (1D): 0.15 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

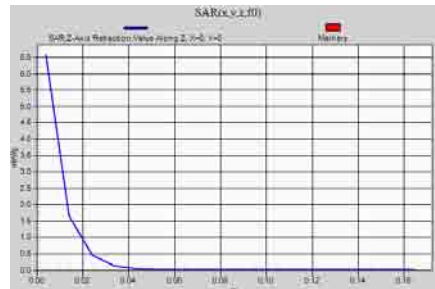
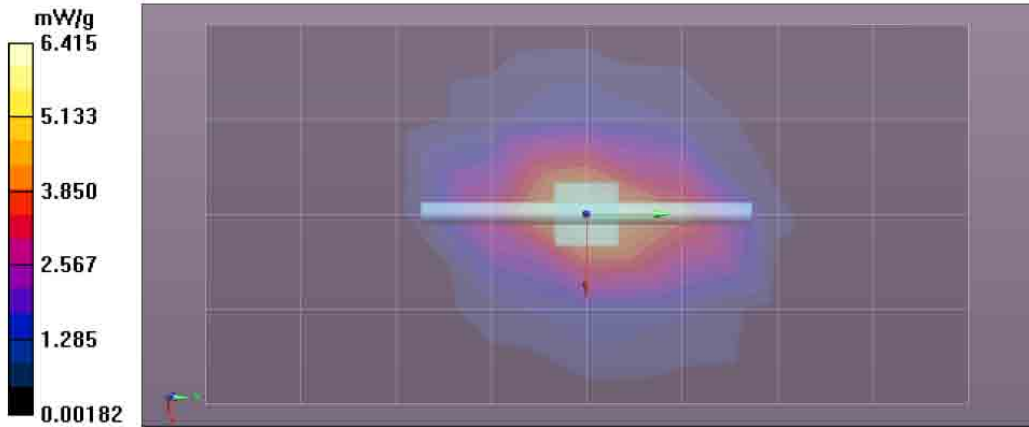
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 56.654 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 5.41 mW/g; SAR(10 g) = 2.32 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 6.68 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 56.654 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 12.305 mW/g
SAR(1 g) = 5.52 mW/g; SAR(10 g) = 2.57 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.28 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.56 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/12/2012 4:13:26 PM

Robot#: DASY5-FL-3 | Run#: CM-SYSP-2450B-120612-13
 Dipole Model# D2450V2
 Phantom#: OVAL1022
 Tissue Temp: 20.1 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 56.50 mW/g (1g)
 Adjusted SAR (1W): 54.20 mW/g (1g)
 Percent from Target (+/-): 4.1% (1g)
 Rotation (1D): 0.16 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.96$ mho/m; $\epsilon_r = 48.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

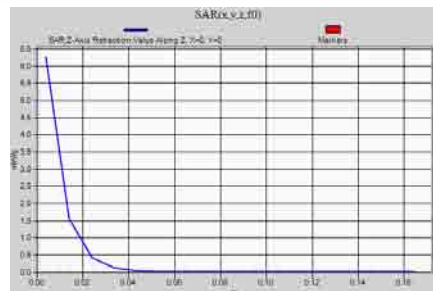
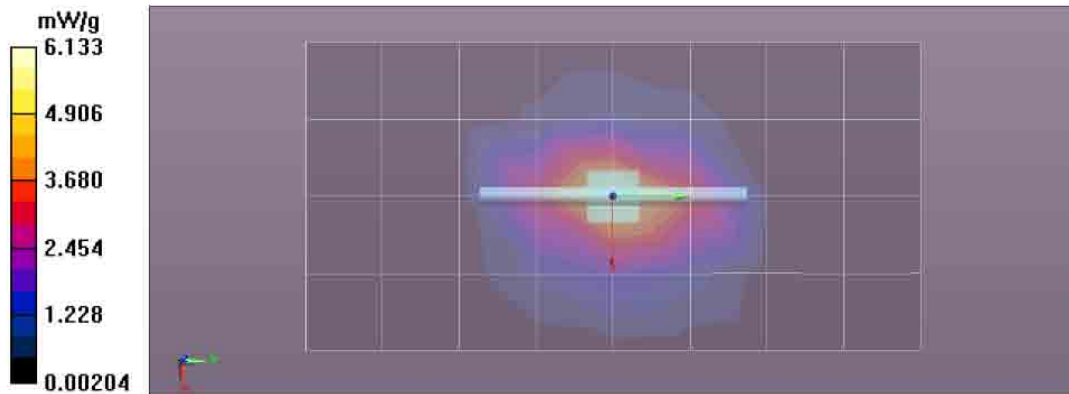
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 56.698 V/m; Power Drift = -0.01 dB
Fast SAR: SAR(1 g) = 5.31 mW/g; SAR(10 g) = 2.29 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 6.37 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 56.698 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 12.113 mW/g
SAR(1 g) = 5.42 mW/g; SAR(10 g) = 2.48 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 6.07 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 6.26 mW/g



Motorola Solutions, Inc. EME Laboratory
Date/Time: 7/25/2012 8:23:18 PM

Robot#: DASY5-FL-3 | Run#: CM-SYSP-2450H-120725-12
 Dipole Model#: D2450V2
 Phantom#: SAMTP1234
 Tissue Temp: 21.9 (C)
 Serial#: 703
 Test Freq: 2450 (MHz)
 Start Power: 250 (mW)

Target SAR (1W): 57.89 mW/g (1g)
 Adjusted SAR (1W): 61.6 mW/g (1g)
 Percent from Target (+/-): 6.4 % (1g)
 Rotation (1D): 0.29 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3163, . ConvF(4.44, 4.44, 4.44); Calibrated: 4/25/2012
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

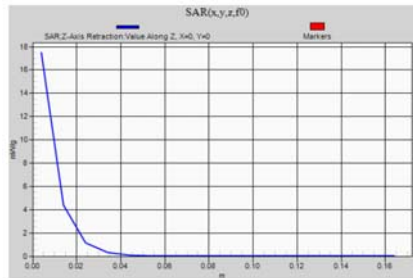
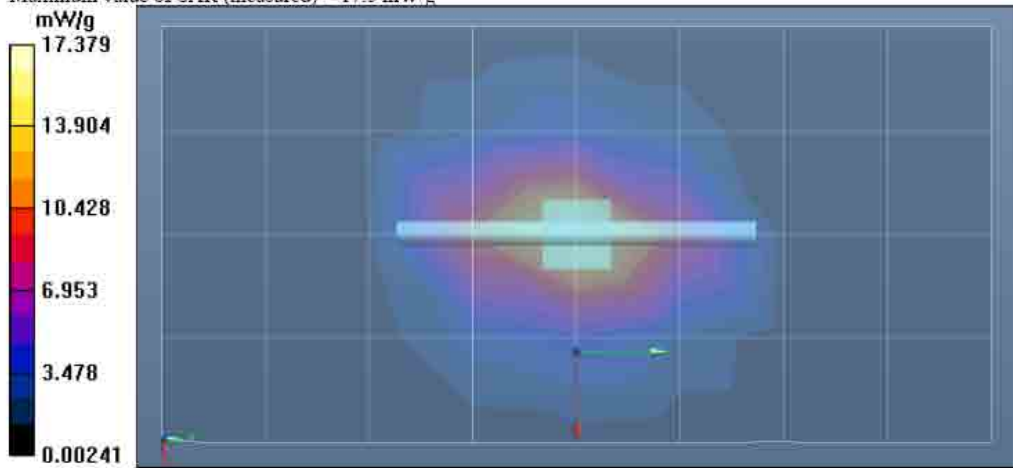
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 98.421 V/m; Power Drift = 0.01 dB
 Fast SAR: SAR(1 g) = 15.1 mW/g; SAR(10 g) = 6.59 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 17.9 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 98.421 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 33.442 mW/g
 SAR(1 g) = 15.4 mW/g; SAR(10 g) = 7.09 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 17.1 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 17.5 mW/g



E.7 DUT Scans (Shortened Scan and Highest SAR Configuration)

Shortened Scan Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 7/25/2012 9:36:06 PM

Robot#: DASY5-FL-3 | Run#: CM-Rear-120725-13
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 22.0 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2462 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: .05129 (W)

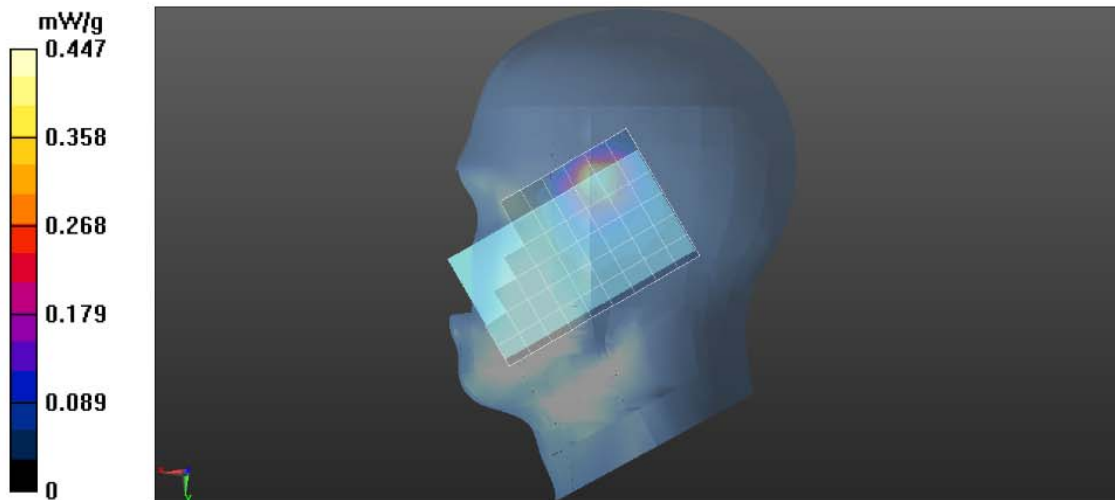
Comments: Touch; Shortened scan

Duty Cycle: 1:1, Medium parameters used: $f = 2462$ MHz; $\sigma = 1.87$ mho/m; $\epsilon_r = 40.5$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3163, , ConvF(4.44, 4.44, 4.44); Calibrated: 4/25/2012
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-Touch Position/1-Area Scan (61x91x1): Measurement grid:
 dx=15mm, dy=15mm
 Reference Value = 6.764 V/m; Power Drift = -0.21 dB
Fast SAR: SAR(1 g) = 0.424 mW/g; SAR(10 g) = 0.203 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.489 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.427 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 6.181 V/m; Power Drift = -0.25 dB
 Peak SAR (extrapolated) = 0.929 mW/g
SAR(1 g) = 0.426 mW/g; SAR(10 g) = 0.214 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.444 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.
 Representative full scan run time was 15 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 0.451 mW/g; 10-g Avg. = 0.227 mW/g.
 Zoom scan max calculated SAR using SAR drift (see Table E.5): 1-g Avg. = 0.473 mW/g; 10-g Avg. = 0.238 mW/g.

Highest SAR Configuration Result
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/9/2012 10:49:35 AM

Robot#: DASY5-FL-3 | Run#: ErC-Rear-120509-08
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.3 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2462 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: .05129 (W)

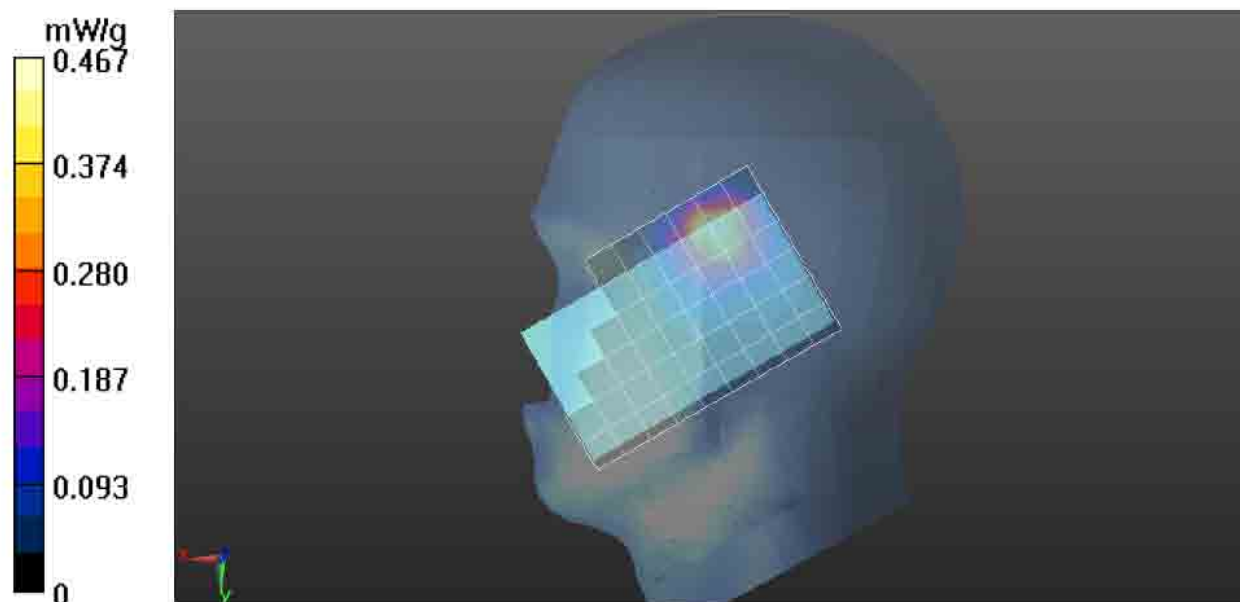
Comments: Touch

Duty Cycle: 1:1, Medium parameters used: f = 2462 MHz; $\sigma = 1.76$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-Touch Position/1-Area Scan (7x10x1): Measurement grid:
 dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.467 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0: Measurement
 grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 6.977 V/m; Power Drift = -0.31 dB
 Peak SAR (extrapolated) = 0.946 mW/g
SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.222 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.463 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.479 mW/g



DUT Scans
Body
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 6/7/2012 11:23:19 AM

Robot#: DASY5-FL-3 | Run#: ErC-Ab-120607-07
 Model#: LEX700
 Phantom#: OVAL1022
 Tissue Temp: 21.2 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2437 (MHz)
 Battery: 82-154162-02 w/60.15U27.001
 Carry Acc: TTN1002A
 Audio Acc: None
 Start Power: .05129 (W)

Comments: Back/Bottom up. Battery facing phantom.

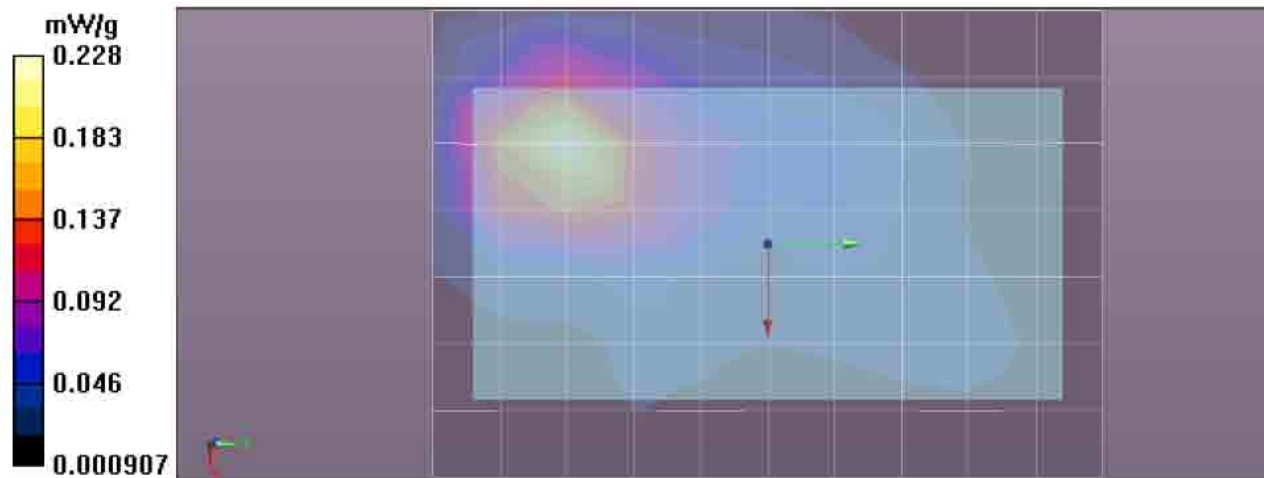
Duty Cycle: 1:1, Medium parameters used: $f = 2437$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 48.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.11, 4.11, 4.11); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (71x101x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 6.180 V/m; Power Drift = -0.25 dB
Fast SAR: SAR(1 g) = 0.210 mW/g; SAR(10 g) = 0.106 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.235 mW/g

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (8x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.228 mW/g

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 6.180 V/m; Power Drift = -0.36 dB
 Peak SAR (extrapolated) = 0.423 mW/g
SAR(1 g) = 0.213 mW/g; SAR(10 g) = 0.110 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.233 mW/g

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.231 mW/g



Right Ear - Tilt
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/9/2012 9:17:10 AM

Robot#: DASY5-FL-3 | Run#: ErC-Rear-120509-05
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.6 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2437 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 04898 (W)

Comments: Tilt

Duty Cycle: 1:1, Medium parameters used: $f = 2437$ MHz; $\sigma = 1.71$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24), Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/1-Area Scan (8x10x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Maximum value of SAR (measured) = 0.174 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/3-Zoom Scan (5x5x7)/Cube 0:

Measurement grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 4.703 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.330 mW/g

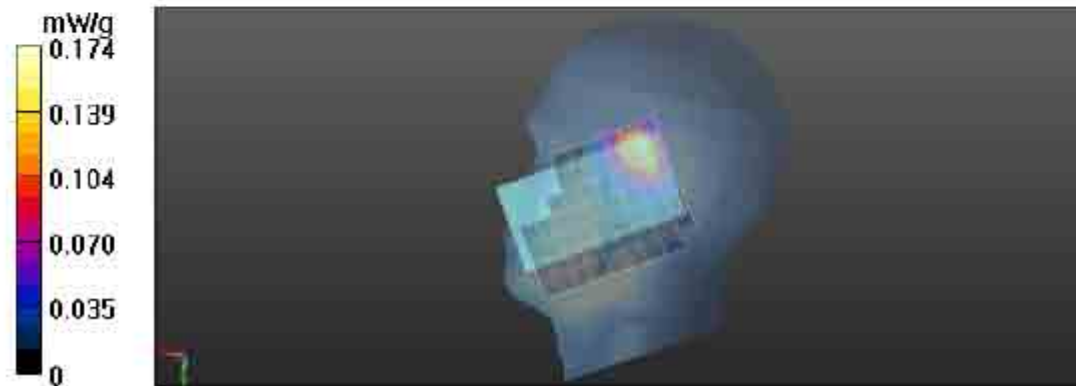
SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.088 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.179 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/4-Z-Axis Scan (1x1x17): Measurement grid:

$dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.178 mW/g



Right Ear – Touch

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/9/2012 10:49:35 AM

Robot#: DASY5-FL-3 | Run#: ErC-Rear-120509-08
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.3 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2462 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: .05129 (W)

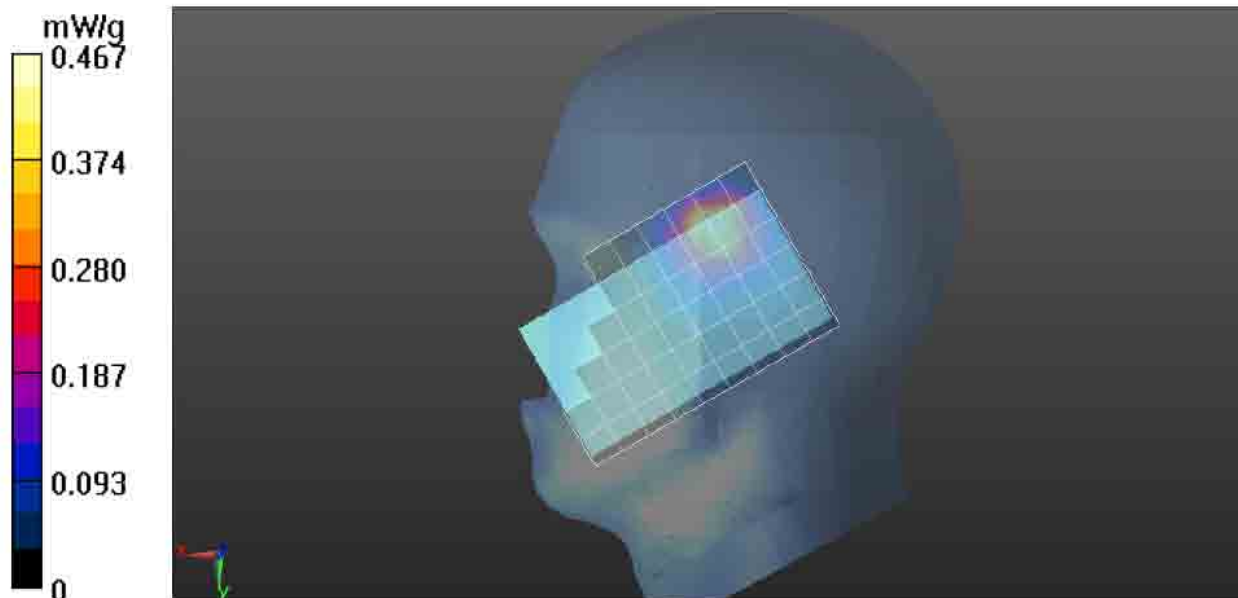
Comments: Touch

Duty Cycle: 1:1, Medium parameters used: $f = 2462$ MHz; $\sigma = 1.76$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-Touch Position/1-Area Scan (7x10x1): Measurement grid:
 dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.467 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 6.977 V/m; Power Drift = -0.31 dB
 Peak SAR (extrapolated) = 0.946 mW/g
SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.222 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.463 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.479 mW/g



Left Ear - Tilt
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/9/2012 2:31:48 PM

Robot#: DASY5-FL-3 | Run#: ErC-Lear-120509-14
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.1 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2437 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: .04898 (W)

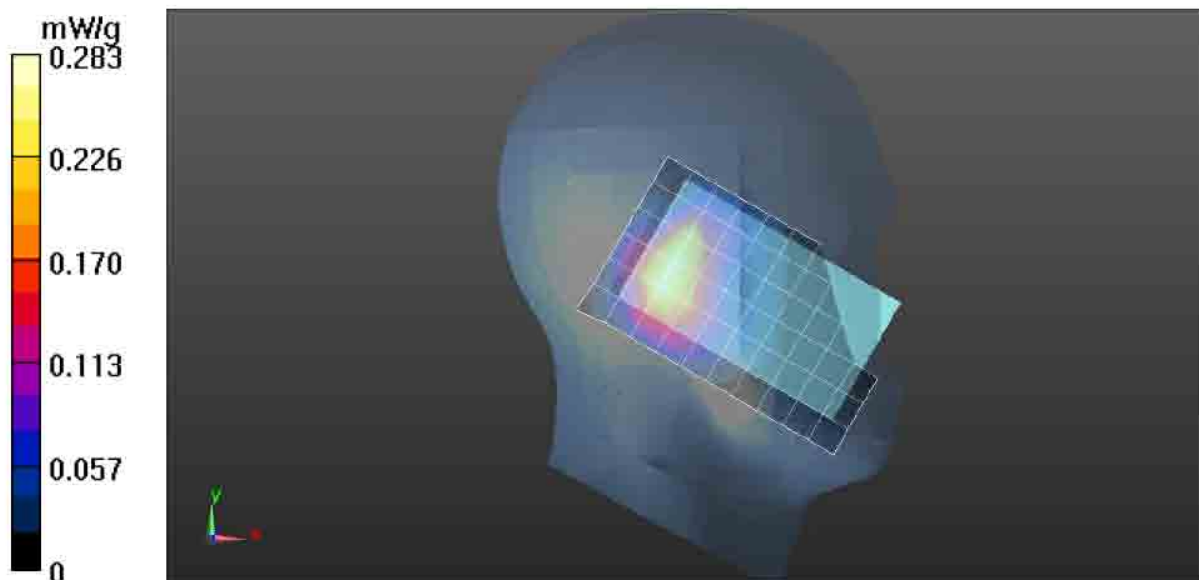
Comments: Tilt

Duty Cycle: 1:1, Medium parameters used: $f = 2437$ MHz; $\sigma = 1.71$ mho/m; $\epsilon_r = 37.8$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/1-Area Scan (7x11x1): Measurement grid:
 dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.283 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 9.502 V/m; Power Drift = -0.37 dB
 Peak SAR (extrapolated) = 0.453 mW/g
SAR(1 g) = 0.252 mW/g; SAR(10 g) = 0.141 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.268 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.266 mW/g



Left Ear - Touch
Motorola Solutions, Inc. EME Laboratory
Date/Time: 5/10/2012 6:07:02 AM

Robot#: DASY5-FL-3 | Run#: ErC-Lear-120510-02
Model#: LEX700
Phantom#: SAMTP1234
Tissue Temp: 21.9 (C)
Serial#: 12053522500227
Antenna: Diversity 25.90AD2.001
Test Freq: 2412 (MHz)
Battery: 82-154162-01 w/60.15U26.001
Carry Acc: None
Audio Acc: None
Start Power: .03631 (W)

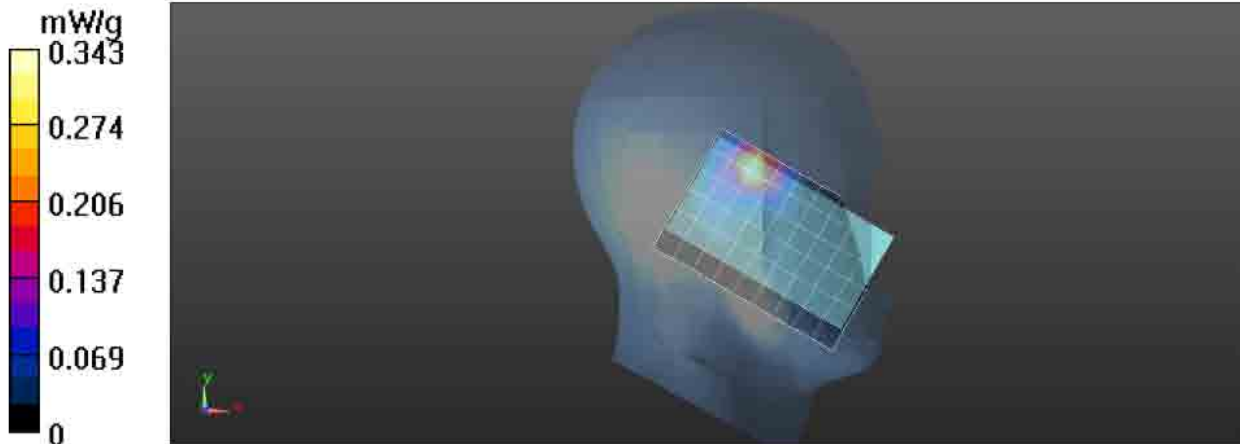
Comments: Touch

Duty Cycle: 1:1, Medium parameters used: $f = 2412$ MHz; $\sigma = 1.84$ mho/m; $\epsilon_r = 37.5$; $\rho = 1000$ kg/m³
Probe: ES3DV3 - SN3185, , ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-Touch position/1-Area Scan (7x10x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.343 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 4.383 V/m; Power Drift = -0.52 dB
Peak SAR (extrapolated) = 0.707 mW/g
SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.159 mW/g (SAR corrected for target medium)
Maximum value of SAR (measured) = 0.361 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid:
dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 0.379 mW/g



Face

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/10/2012 8:33:41 AM

Robot#: DASY5-FL-3 | Run#: ErC-Face-120510-06
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.7 (C)
 Serial#: 12053522500227
 Antenna: Main 25.90AD1.001
 Test Freq: 2462 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: .05129 (W)

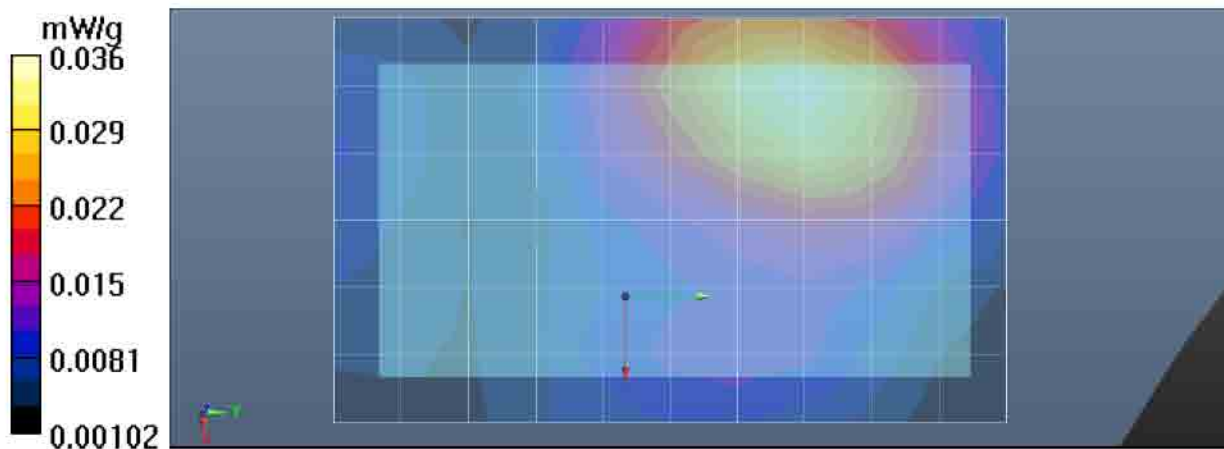
Comments: DUT at 2.5 cm Front Facing Phantom

Duty Cycle: 1:1, Medium parameters used: $f = 2462$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 37.3$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, ConvF(4.24, 4.24, 4.24); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 0.0364 mW/g

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 3.248 V/m; Power Drift = -0.54 dB
 Peak SAR (extrapolated) = 0.059 mW/g
SAR(1 g) = 0.033 mW/g; SAR(10 g) = 0.019 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.0347 mW/g

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.0343 mW/g



E.8 Power Slump Data

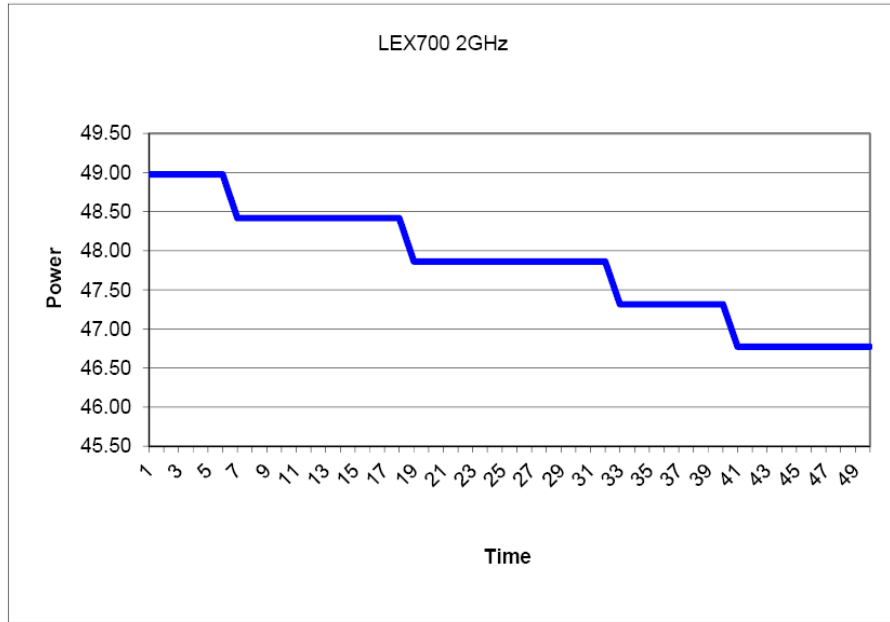
Main WLAN 2.4GHz - DSSS

Channel 11 (2462MHz)

Low capacity Battery (82-154162-01)

Time [min] Power [mW]

1	48.98
2	48.98
3	48.98
4	48.98
5	48.98
6	48.98
7	48.42
8	48.42
9	48.42
10	48.42
11	48.42
12	48.42
13	48.42
14	48.42
15	48.42
16	48.42
17	48.42
18	48.42
19	47.86
20	47.86
21	47.86
22	47.86
23	47.86
24	47.86
25	47.86
26	47.86
27	47.86
28	47.86
29	47.86
30	47.86
31	47.86
32	47.86
33	47.32
34	47.32
35	47.32
36	47.32
37	47.32
38	47.32
39	47.32
40	47.32
41	46.77
42	46.77
43	46.77
44	46.77
45	46.77
46	46.77
47	46.77
48	46.77
49	46.77



Appendix F CDMA/EVDO (800 & 1900MHz) Testing

This appendix includes the following SAR Measurement System Verification / DUT Test Methodology / DUT Test Data / System Performance Scans / DUT Scans / and Power Slump Data for model LEX700 – CDMA/EVDO (800 & 1900MHz).

F.1. SAR Measurement System Verification

The SAR measurements were conducted with probe model/serial number ES3DV3/3185. System performance checks are conducted daily and within 24 hours of testing. Probe and dipole calibration certificates and dipole targets are included in appendices B, C, D respectively. System performance checks are included in this appendix for CDMA/EVDO (800 & 1900MHz) testing.

System validation results and dipole targets are provided in Appendix D. The EMS EME lab validated the dipole to the applicable IEEE 1528-2003 system performance targets. Within the same day system validation was performed using FCC body tissue parameters to generate the system performance target values for body at the applicable frequency.

F.1.1. Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements are measured daily and within 24 hours of SAR testing to verify that the tissue is within +/- 5% of target parameters for each tested channel. This measurement is done using the applicable equipment indicated in section 9.0.

The table below summarizes the measured tissue parameters used for the SAR assessment.

TABLE F.1

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
Simulated Tissue Measurements for 800 MHz CDMA/EVDO testing						
835	FCC Body	.97 (.92 – 1.02)	55.2 (52.4 – 58.0)	1.01	55.0	5/26/2012
835	IEEE /IEC Head	.90 (.85 - .95)	41.5 (39.4 – 43.6)	.93	40.7	5/19/2012

Table F.1 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
Simulated Tissue Measurements for 1.9 GHz CDMA/EVDO testing						
1851	FCC Body	1.52 (1.44 – 1.60)	53.3 (50.6 – 56.0)	1.47	51.4	5/29/2012
				1.53	51.3	6/13/2012
1880	FCC Body	1.52 (1.44 – 1.60)	53.3 (50.6 – 56.0)	1.49	51.2	5/29/2012
				1.53	51.3	6/11/2012
1900	FCC Body	1.52 (1.44 – 1.60)	53.3 (50.6 – 56.0)	1.50	53.3	5/29/2012
				1.55	51.3	6/11/2012
				1.58	51.2	6/13/2012
1909	FCC Body	1.52 (1.44 – 1.60)	53.3 (50.6 – 56.0)	1.50	51.1	5/29/2012
1851	IEEE /IEC Head	1.40 (1.33 – 1.47)	40.0 (38.0 – 42.0)	1.39	38.9	5/21/2012
				1.43	38.9	5/22/2012
				1.38	38.3	5/23/2012
1880	IEEE /IEC Head	1.40 (1.33 – 1.47)	40.0 (38.0 – 42.0)	1.41	38.6	5/21/2012
				1.44	38.7	5/22/2012
				1.36	38.0	5/23/2012
1900	IEEE /IEC Head	1.40 (1.33 – 1.47)	40.0 (38.0 – 42.0)	1.42	38.6	5/21/2012
				1.46	38.7	5/22/2012
				1.36	38.0	5/23/2012
				1.46	38.9	6/6/2012
1909	IEEE /IEC Head	1.40 (1.33 – 1.47)	40.0 (38.0 – 42.0)	1.42	38.6	5/21/2012
				1.46	38.6	5/22/2012
				1.37	38.0	5/23/2012
				1.47	38.9	6/6/2012

F.1.2. System Check Test Results

System performance checks at 835MHz and 1900MHz were conducted each day during the SAR assessment. The results are normalized to 1W. Section F.6 includes DASY plots for each day during the SAR assessment. The table below summarizes the daily system check results used for the SAR assessment.

TABLE F.2

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Reference SAR @ 1W (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
System Check result 800 / 1900 CDMA/EVDO					
3185	835 FCC Body	D835V2 / 435	9.84 +/- 10%	9.56	5/26/2012
3185	1900 FCC Body	D1900V2 / 521	40.89 +/- 10%	37.67	5/29/2012
				37.00	6/11/2012
3185	835 IEEE Head	D835V2 / 427	9.55 +/- 10%	10.04	5/19/2012
3185	1900 IEEE Head	D1900V2 / 521	41.34 +/- 10%	40.00	5/21/2012
				40.33	5/22/2012
				39.67	5/23/2012
				41.60	6/6/2012

Note: See APPENDIX D for an explanation of the reference SAR targets stated above.

F.2. DUT Test Methodology

F.2.1. Measurements

SAR measurements were performed using the DASY system described in section 8.0 using coarse, zoom and Z axis scans. SAM and Flat phantoms were filled with applicable simulated tissue, which were used for head, face and body testing.

F.2.2. DUT Configuration(s)

The DUT is a portable device as described in section 6.0. This appendix is specific to CDMA/EVDO 800/1900MHz testing at the body, head, and face using the offered accessories. The device is placed in the test positions as described below for body, head and face. Appendix K illustrates the DUT and offered accessories.

F.2.3. DUT Positioning Procedures

The positioning of the device for each body location is described below and illustrated in Appendix J.

F.2.3.1. Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessory as well as with and without the offered data cable accessory.

F.2.3.2. Head

The DUT was placed against the right and left heads of the SAM phantom in the cheek touch and tilt positions.

F.2.3.3. Face

The DUT was positioned with its' front side separated 2.5cm from the phantom.

F.3. Output Power Data CDMA/EVDO 800/1900MHz

The tables below represent the output power measurements for CDMA/EVDO 800/1900MHz. These power measurements were used to determine the necessary modes for SAR testing according to KDB 941225 D01 - SAR Measurement Procedures for 3G Devices – CDMA 2000 / Ev-Do, WCDMA/HSDPA/HSPA.

In some cases the initial power listed herein may exceed the reported maximum power due to software step size tuning limitations. However, the initial powers measured are not greater than 5% of the reported maximum power.

TABLE F.3 Output Power CDMA/EVDO 800MHz Band

LEX700 S/N: 12053522500224			Battery type	1x Battery: 82-154162-01			2x Battery: 82-154162-02		
			Channel type	Low	Mid	High	Low	Mid	High
			Channel Uplink	1013	334	777	1013	334	777
			Frequency [MHz]	824.70	835.02	848.31	824.70	835.02	848.31
800 Band	Radio Config.	Service Option	Settings	Max Power is 182 mW					
Rev A CDMA2000 Rvs1,Fwd1	RC1	SO55	bits "All Up" full rate Loopback SO55	Rev A not supported by DUT					
REV O CDMA2000 Rvs1,Fwd1	*RC1	SO55	bits "All Up" full rate Loopback SO55	186.21	181.97	169.82	n/a	n/a	n/a
Rev A CDMA2000 Rvs3,Fwd3	RC3	SO55	bits "All Up" full rate Loopback SO55	Rev A not supported by DUT					
		SO32	"Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps	Rev A not supported by DUT					
REV O CDMA2000 Rvs3,Fwd3	RC3	SO55	bits "All Up" full rate Loopback SO55	186.21	177.83	173.78	n/a	181.97	n/a
		SO32	"Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps	186.21	177.83	169.82	n/a	181.97	n/a
REV O EVDO	**EVDO	NA	Maximum output channel at 153.6kbps, ACK in all slots & Bits "All Up"	181.97	177.83	169.82	n/a	n/a	n/a
REV A EVDO	***EVDO	NA	Reverse Data channel payload of 4096 & Termination Target of 16 slots for subtype 2physical layers. A forward traffic channel data rate of 2 slot @ 307.2 kbps with ACK in all slots. Bits "All Up"	169.82	169.82	162.18	n/a	n/a	n/a

Note –Output power was measured according to procedures in section 4.4.5.2 of 3GPP2 C.S0011

*RC1 is not required because power is less than (RC3 +1/4 dB).

**Rev O EVDO output power for each channel is \leq RC3 therefore Rev O EVDO is not required.

***Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required..

TABLE F.4 Output Power CDMA/EVDO 1900MHz Band

LEX700 S/N: 12053522500224			Battery type	1x Battery: 82-154162-01			2x Battery: 82-154162-02		
			Channel type	Low	Mid	High	Low	Mid	High
			Channel Uplink	25	600	1175	25	600	1175
			Frequency [MHz]	1851.25	1880.00	1908.75	1851.25	1880.00	1908.75
1900 Band	Radio Config.	Service Option	Settings	Max Power is 186 mW					
Rev A CDMA2000 Rvs1,Fwd1	RC1	SO55	bits "All Up" full rate Loopback SO55	Rev A not supported by DUT					
REV O CDMA2000 Rvs1,Fwd1	*RC1	SO55	bits "All Up" full rate Loopback SO55	165.96	169.82	134.90	n/a	n/a	n/a
Rev A CDMA2000 Rvs3,Fwd3	RC3	SO55	bits "All Up" full rate Loopback SO55	Rev A not supported by DUT					
		SO32	"Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps	Rev A not supported by DUT					
REV O CDMA2000 Rvs3,Fwd3	RC3	SO55	bits "All Up" full rate Loopback SO55	162.18	169.82	144.54	n/a	165.96	n/a
		SO32	"Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps	169.82	169.82	151.36	n/a	169.82	n/a
REV O EVDO	EVDO	NA	Maximum output channel at 153.6kbps, ACK in all slots & Bits "All Up"	181.97	181.97	162.18	n/a	n/a	n/a
REV A EVDO	**EVDO	NA	Reverse Data channel payload of 4096 & Termination Target of 16 slots for subtype 2physical layers. A forward traffic channel data rate of 2 slot @ 307.2 kbps with ACK in all slots. Bits "All Up"	177.83	177.83	141.25	n/a	n/a	n/a

Note –Output power was measured according to procedures in section 4.4.5.2 of 3GPP2 C.S0011

*RC1 is not required because power is less than (RC3 +1/4 dB).

**Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

F.4. DUT Test Data

F.4.1. Assessments at CDMA/EVDO (824.7 – 848.31MHz) Test Data

F.4.1.1. Assessments at the Body

A base station emulator was used to configure the DUT at the body using Radio Control (RC) 3, Service Option (SO) 32, "Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps.

Refer to output power measurements in Table F.3

RC1 is not required because power is less than (RC3 +1/4 dB).

Rev O EVDO output power for each channel is \leq RC3 therefore Rev O EVDO is not required.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required..

Assessment of the holster; The DUT was tested with the holster at mid channel using offered low capacity battery (82-154162-01) & cover (60.15U26.001) without any cable accessory attachment. The DUT was tested in each of four intended orientations within body worn Holster TTN1002A, the orientations are: 1) front/top up (display facing phantom) 2) front/bottom up (display facing phantom) 3) back/top up (battery facing phantom) 4) back/bottom up (battery facing phantom).

Refer to Appendix K for illustration of four orientations.

Assessment of the offered high capacity battery; The DUT was tested with the optional high capacity battery (82-154162-02) & cover (60.15U27.001) using the highest SAR configuration from above.

Assessment of the offered data cable accessory; The DUT was tested with the optional data cable using the applicable highest SAR configuration from above.

Note – USB port access is only applicable to positions 1 & 3 “top up”.

Assessment across the frequencies band edges; The highest test configuration from above was used to test across the frequencies band edges.

Table F.5 presents the data of the body assessment. SAR plot(s) are included in section F.7 for the bolded data in Table F.5.

TABLE F.5

Assessments at the Body (CDMA) 824.7 – 848.31MHz band RC3, SO32, "Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the body – holster												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/top up (display facing phantom)	None	835.02	0.17783	-0.67	0.166	0.107	0.198	0.128	HvH-Ab-120526-12
			Holster TTN1002A, front/bottom up (display facing phantom)			0.17783	0.23	0.110	0.079	0.113	0.081	HvH-Ab-120526-13
			Holster TTN1002A, back/top up (battery facing phantom)			0.17783	0.41	0.212	0.145	0.217	0.148	CM-Ab-120526-17
			Holster TTN1002A, back/bottom up (battery facing phantom)			0.17783	-0.46	0.080	0.054	0.091	0.061	CM-Ab-120526-20
Assessment at the body – high capacity battery using highest position from above												
Internal CDMA (25.90AD4.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, back/top up (battery facing phantom)	None	835.02	0.18197	-0.02	0.137	0.096	0.138	0.096	CM-Ab-120526-21
Assessment at the body – data cable using highest position from above												
Note - USB port access is only applicable to "top up" position.												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, back/top up (battery facing phantom)	USB data cable 25-128458-01R	835.02	0.17783	-0.10	0.175	0.064	0.183	0.067	CM-Ab-120526-23

Note: Testing of the low and high channels are not required per the applicable FCC test reduction rules due to SAR at mid-channel is not higher than 0.8 mW/g.

F.4.1.2. Assessments at the Head

A base station emulator was used to configure the DUT at the head using Radio Control (RC) 3, bits “all up” full rate loopback Service Option (SO) 55.

Refer to output power measurements in Table F.3

RC1 is not required because power is less than (RC3 +1/4 dB).

Rev O EVDO output power for each channel is \leq RC3 therefore Rev O EVDO is not required.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

Assessment of the right ear cheek touch and tilt positions; The DUT was tested at the right ear in the cheek touch position using the offered low capacity battery (82-154162-01) and high capacity battery (82-154162-02) at the center frequency of the band. The cheek 15° tilt was then tested using the battery that produced the highest SAR.

Assessment across the frequencies band edges; The highest test configuration from above was used to test the band edges.

Assessment of the left ear test positions and applicable frequencies; The DUT was tested at the left ear in both the cheek touch and 15° tilt positions using the battery which resulted in the highest SAR from right ear. The highest position was then tested at the band edges

Table F.6 presents the data of the head assessments. SAR plot(s) are included in section F.7 for the bolded data in Table F.6.

TABLE F.6

**Assessments at the Head (CDMA) 824.7 – 848.31MHz band
RC3 bits "All Up" full rate Loopback SO55**

Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the right ear – touch w/ low & high capacity batteries												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	835.02	0.17783	-0.21	0.403	0.294	0.433	0.316	HvH-Rear-120519-04
	High capacity (82-154162-02) & cover (60.15U27.001)											0.18197
Assessment at the right ear – tilt position using highest battery from above												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	835.02	0.17783	0.04	0.339	0.204	0.347	0.209	HvH-Rear-120519-06
Assessment at the left ear – touch & tilt												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	835.02	0.17783	-0.11	0.534	0.369	0.561	0.387	HvH-Lear-120519-09
		Cheek tilt										0.17783

Note: Testing of the low and high channels are not required per the applicable FCC test reduction rules due to SAR at mid-channel is not higher than 0.8 mW/g.

F.4.1.3. Assessments at the Face

A base station emulator was used to configure the DUT at the head using Radio Control (RC) 3, bits “all up” full rate loopback Service Option (SO) 55.

Refer to output power measurements in Table F.3

RC1 is not required because power is less than RC3 +1/4 dB.

Rev O EVDO output power for each channel is ≤ RC3 therefore Rev O EVDO is not required.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

Assessment of the applicable frequencies; The DUT was tested across the band using the battery which resulted in the highest SAR from right ear.

Table F.7 presents the data of the face assessments. SAR plot(s) are included in section F.7 for the bolded data in Table F.7.

TABLE F.7

**Assessments at the Face (CDMA) 824.7 – 848.31MHz band
RC3 bits "All Up" full rate Loopback SO55**

Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the face – 2.5cm												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	835.02	0.17783	-0.11	0.178	0.132	0.187	0.139	HvH-Face-120519-14

Note: Testing of the low and high channels are not required per the applicable FCC test reduction rules due to SAR at mid-channel is not higher than 0.8 mW/g.

F.4.2. Assessments at CDMA/EVDO (1851.25-1908.75 MHz) Test Data

F.4.2.1. Assessments at the Body

A base station emulator was used to configure the DUT at the body using Radio Control (RC) 3, Service Option (SO)32, "Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps.

Refer to output power measurements in Table F.4

RC1 is not required because power is less than (RC3 +1/4 dB).

Rev O EVDO is required because of output power results.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

Assessment of the holster; The DUT was tested in RC3 SO32 with the holster at mid channel using offered low capacity battery (82-154162-01) & cover (60.15U26.001) without any cable accessory attachment. The DUT was tested in each of four intended orientations within body worn Holster TTN1002A, the orientations are: 1) front/top up (display facing phantom) 2) front/bottom up (display facing phantom) 3) back/top up (battery facing phantom) 4) back/bottom up (battery facing phantom).

Refer to Appendix K for illustration of four orientations.

Assessment of the offered high capacity battery; The DUT was tested with the optional high capacity battery (82-154162-02) & cover (60.15U27.001) using the highest SAR configuration from above.

Assessment of the offered data cable accessory; The DUT was tested with the optional data cable using the highest SAR configuration from above.

Note – USB port access is only applicable to positions 1 & 3 “top up”.

Assessment across the frequencies band edges; The highest test configuration from above was used to test across the frequencies band edges.

Assessment of EVDO for each tested channel; The applicable highest configuration from above was tested across the band.

Table F.8 presents the data of the body assessment. SAR plot(s) are included in section F.7 for the bolded data in Table F.8.

TABLE F.8

Assessments at the Body (CDMA) 1851.25-1908.75 MHz band												
RC3, SO32, "Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled @ 9600bps												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the body – holster												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/top up (display facing phantom)	None	1880.00	0.16982	-0.14	0.047	0.027	0.053	0.031	ErC-Ab-120529-04
			Holster TTN1002A, front/bottom up (display facing phantom)			0.16982	-0.05	0.400	0.228	0.443	0.253	ErC-Ab-120611-09
			Holster TTN1002A, back/top up (battery facing phantom)			0.16982	-0.46	0.026	0.016	0.032	0.019	CM-Ab-120529-05
			Holster TTN1002A, back/bottom up (battery facing phantom)			0.16982	-0.32	0.018	0.012	0.021	0.014	CM-Ab-120529-06
Assessment at the body – high capacity battery highest case position from above												
Internal CDMA (25.90AD4.001)	High capacity (82-154162-02) & cover (60.15U27.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	1880.00	0.16982	-0.35	0.076	0.043	0.090	0.051	CM-Ab-120529-07
Assessment at the body – data cable using highest position from above holster												
Note - USB port access is only applicable to "top up" position.												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/top up (display facing phantom)	USB data cable 25-128458-01R	1880.00	0.16982	0.20	0.065	0.039	0.071	0.043	CM-Ab-120529-08
Assessment at the body – band edges using highest position from above												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	1851.25	0.16982	-0.33	0.414	0.244	0.489	0.288	ErC-Ab-120613-07
					1908.75	0.15136	-0.54	0.262	0.151	0.365	0.210	CM-Ab-120529-10
Assessments at the Body (EVDO) 1851.25-1908.75 MHz band												
Highest configuration per channel - Maximum output channel at 153.6kbps, ACK in all slots & bits "All Up".												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Against Phantom	Holster TTN1002A, front/bottom up (display facing phantom)	None	1851.25	0.18197	-0.27	0.747	0.400	0.813	0.435	CM-Ab-120529-14
					1880.00	0.18197	-0.63	0.444	0.261	0.525	0.308	CM-Ab-120529-15
					1908.75	0.16218	-0.59	0.377	0.193	0.495	0.254	CM-Ab-120529-17

F.4.2.2. Assessments at the Head

A base station emulator was used to configure the DUT at the head using Radio Control (RC) 3, bits “all up” full rate loopback Service Option (SO) 55.

Refer to output power measurements in Table F.4

RC1 is not required because power is less than (RC3 +1/4 dB).

Rev O EVDO is required because of output power results.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

Assessment of the right ear cheek touch and tilt positions; The DUT was tested in RC3, SO55 at the right ear in the cheek touch position using the offered low capacity battery (82-154162-01) and high capacity battery (82-154162-02) at the center frequency of the band. The cheek 15° tilt was then tested using the battery that produced the highest SAR.

Assessment across the frequencies band edges; The highest test configuration from above was used to test the band edges.

Assessment of the left ear test positions and applicable frequencies; The DUT was tested at the left ear in both the cheek touch and 15° tilt positions using the battery which resulted in the highest SAR from right ear. The highest position was then tested at the band edges

Assessment of EVDO for each tested channel; The applicable highest configuration from above was tested across the band.

Table F.9 presents the data of the head assessments. SAR plot(s) are included in section F.7 for the bolded data in Table F.9.

TABLE F.9

**Assessments at the Head (CDMA) 1851.25-1908.75 MHz band
RC3 bits "All Up" full rate Loopback SO55**

Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the right ear – touch w/ low & high capacity batteries												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1880.00	0.16982	0.00	0.500	0.300	0.548	0.329	HvH-Rear-120521-02
	High capacity (82-154162-02) & cover (60.15U27.001)					0.16596	-0.05	0.460	0.272	0.522	0.308	HvH-Rear-120521-03
Assessment at the right ear – tilt position using the highest battery from above												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek tilt	None	None	1880.00	0.16982	-0.01	0.100	0.062	0.110	0.068	HvH-Rear-120521-04
Assessment at the right ear – band edges using highest position from above												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1851.25	0.16218	-0.46	0.488	0.293	0.622	0.374	HvH-Rear-120521-05
					1908.75	0.14454	-0.53	0.466	0.275	0.678	0.400	HvH-Rear-120521-06
Assessment at the left ear – touch & tilt												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1880.00	0.16982	-0.22	0.815	0.479	0.939	0.552	HvH-Lear-120521-07
		Cheek tilt				0.16982	-0.11	0.107	0.056	0.120	0.063	HvH-Lear-120521-08
Assessment at the left ear – band edges using highest position from above												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1851.25	0.16218	-0.59	0.828	0.491	1.088	0.645	HvH-Lear-120521-09
					1908.75	0.14454	-0.52	0.724	0.424	1.050	0.615	HvH-Lear-120521-10

TABLE F.9 (continued)

Assessments at the Head (CDMA/EVDO) 1851.25-1908.75 MHz band Highest configuration per channel - Maximum output channel at 153.6kbps, ACK in all slots & bits "All Up".												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the right ear – touch												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1851.25	0.18197	-0.37	0.462	0.284	0.514	0.316	HvH-Rear-120522-05
					1880.00	0.18197	-0.07	0.561	0.331	0.583	0.344	CM-Rear-120522-06
					1908.75	0.16218	-0.79	0.499	0.290	0.686	0.399	CM-Rear-120522-09
Assessment at the left ear – touch												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1851.25	0.18197	-0.63	0.924	0.546	1.092	0.645	CM-Lear-120522-13
					1880.00	0.18197	-0.09	1.000	0.586	1.044	0.612	CM-Lear-120522-11
					1908.75	0.16218	-0.54	0.846	0.476	1.099	0.618	CM-Lear-120522-15

F.4.2.3. Assessments at the Face

A base station emulator was used to configure the DUT at the head using Radio Control (RC) 3, bits “all up” full rate loopback Service Option (SO) 55.

Refer to output power measurements in Table F.4

RC1 is not required because power is less than (RC3 +1/4 dB).

Rev O EVDO is required because of output power results.

Rev A EVDO output power is less than EVDO Rev O and less than RC3 therefore Rev A EVDO is not required.

Assessment of the applicable frequencies; The DUT was tested across the band using the battery which resulted in the highest SAR from right ear.

Assessment of EVDO for each tested channel; The applicable highest configuration from above was tested across the band.

Table F.10 presents the data of the face assessments. SAR plot(s) are included in section F.7 for the bolded data in Table F.10.

TABLE F.10

Assessments at the Face (CDMA) 1851.25-1908.75 MHz band RC3 bits "All Up" full rate Loopback SO55												
Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Assessment at the face – 2.5cm												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	1851.25	0.16218	-0.11	0.212	0.129	0.249	0.152	CM-Face-120521-11
					1880.00	0.16982	0.03	0.252	0.151	0.276	0.165	CM-Face-120521-12
					1908.75	0.14454	-0.12	0.255	0.152	0.337	0.201	CM-Face-120521-14
Assessments at the Head (EVDO) 1851.25-1908.75 MHz band Highest configuration per channel - Maximum output channel at 153.6kbps, ACK in all slots & bits "All Up".												
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Front 2.5cm	None	None	1851.25	0.18197	-0.37	0.223	0.136	0.248	0.151	HvH-Face-120523-02
					1880.00	0.18197	-0.42	0.257	0.141	0.289	0.159	HvH-Face-120523-03
					1908.75	0.16218	-0.76	0.236	0.130	0.322	0.178	HvH-Face-120523-04

F.4.2.4. Short scan assessment;

A “shortened” scan was performed to validate the SAR drift of the full DASY5™ coarse and 5x5x7 zoom scans. Note that the shortened scan represents the zoom scan performance result; this is obtained by first running a coarse scan to find the peak area and then, using a newly charged battery, a 5x5x7 zoom scan only was performed. The results of the shortened cube scan presented in this appendix demonstrate that the scaling methodology used to determine the calculated SAR results presented herein are valid. The SAR result from the table below is provided in section F.7.

TABLE F.11

Antenna Pos.	Battery	Test position	Carry Case	Cable Accessory	Freq (MHz)	Initial Power (W)	SAR Drift (dB)	Meas. 1g-SAR (mW/g)	Meas. 10g-SAR (mW/g)	Max Calc. 1g-SAR (mW/g)	Max Calc. 10g-SAR (mW/g)	Run Number
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1908.75	0.16218	-0.54	0.846	0.476	1.099	0.618	Full Scan CM-Lear-120522-15
Internal CDMA (25.90AD4.001)	Low capacity (82-154162-01) & cover (60.15U26.001)	Cheek touch	None	None	1908.75	0.16218	-0.04	0.885	0.519	1.024	0.601	Short Scan CM-Lear-120606-18

F.5. Conclusion

The highest Operational Maximum Calculated 1-gram and 10-gram average SAR values found for CDMA/EVDO 800/1900MHz for Model LEX 700

TABLE F.12

Frequency	Max Calc at Body (mW/g)		Max Calc at Face (mW/g)		Max Calc at Head (mW/g)	
	1g-SAR	10g-SAR	1g-SAR	10g-SAR	1g-SAR	10g-SAR
CDMA/EVDO 824.7 – 848.31 MHz	0.217	0.148	0.187	0.139	0.561	0.387
CDMA/EVDO 1851.25-1908.75 MHz	0.813	0.435	0.337	0.201	1.099	0.618

The test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of **1.6 W/kg** averaged over 1 gram per the requirements of 47 CFR 2.1093(d). The 10 grams result is not applicable to FCC filing.

F.6. Test System Verification Scans

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/19/2012 7:56:18 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-835H-120519-03
 Dipole Model# D835V2
 Phantom#: SAMTP1208
 Tissue Temp: 20.4 (C)
 Serial#: 427
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)

Target SAR (1W): 9.55 mW/g (1g)
 Adjusted SAR (1W): 10.04 mW/g (1g)
 Percent from Target (+/-): 5.1 % (1g)
 Rotation (1D): 0.15 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

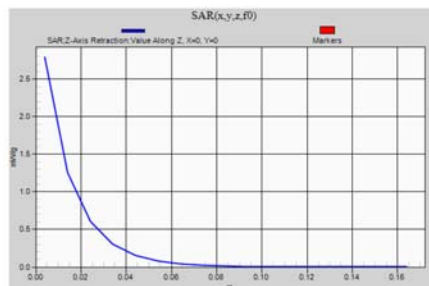
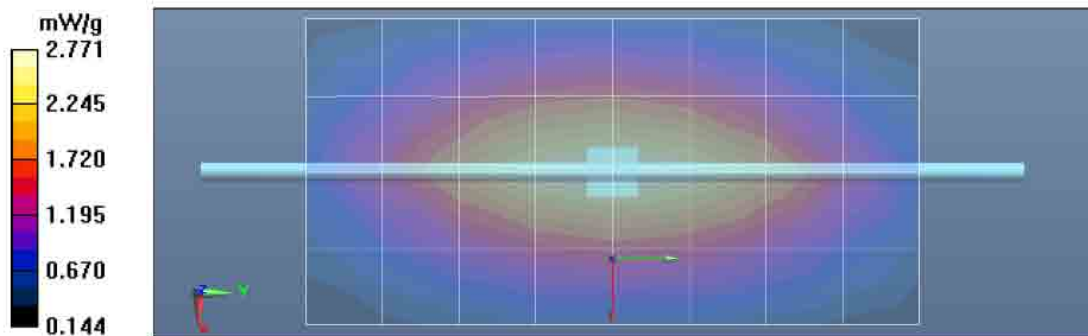
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 55.003 V/m; Power Drift = 0.00 dB
Fast SAR: SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.71 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 2.77 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 55.003 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 3.961 mW/g
SAR(1 g) = 2.51 mW/g; SAR(10 g) = 1.63 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.80 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 2.79 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/21/2012 8:59:11 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-1900H-120521-01
 Dipole Model# D1900V2
 Phantom#: SAMTP1234
 Tissue Temp: 20.7 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 41.34 mW/g (1g)
 Adjusted SAR (1W): 40.00 mW/g (1g)
 Percent from Target (+/-): 3.2 % (1g)
 Rotation (1D): 0.14 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

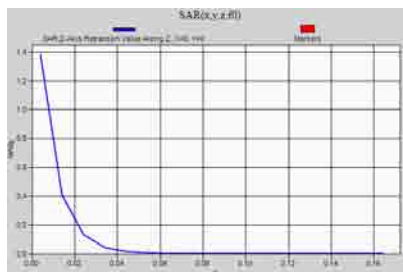
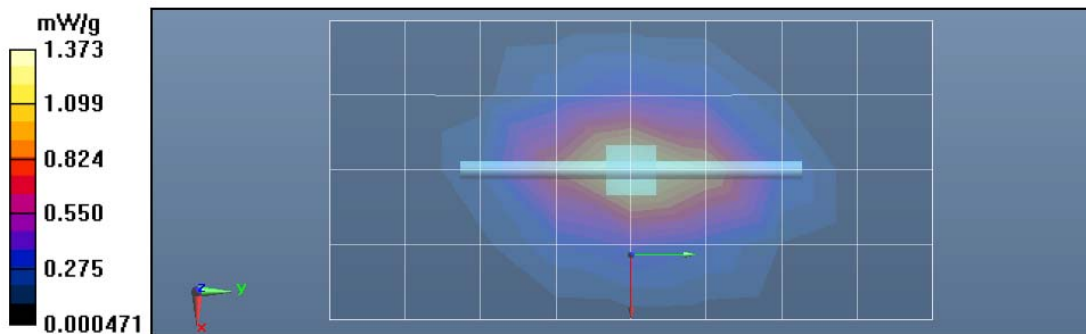
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 31.729 V/m; Power Drift = 0.01 dB
Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.627 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.41 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 31.729 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 2.334 mW/g
SAR(1 g) = 1.2 mW/g; SAR(10 g) = 0.611 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.35 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.38 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/22/2012 9:32:17 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-1900H-120522-01
 Dipole Model# D1900V2
 Phantom#: SAMTP1234
 Tissue Temp: 20.5 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 41.34 mW/g (1g)
 Adjusted SAR (1W): 40.33 mW/g (1g)
 Percent from Target (+/-): 2.4 % (1g)
 Rotation (1D): 0.16 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

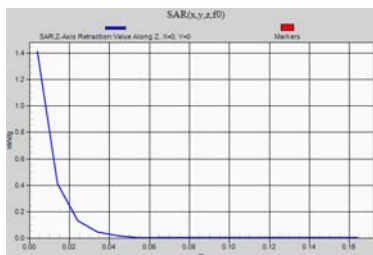
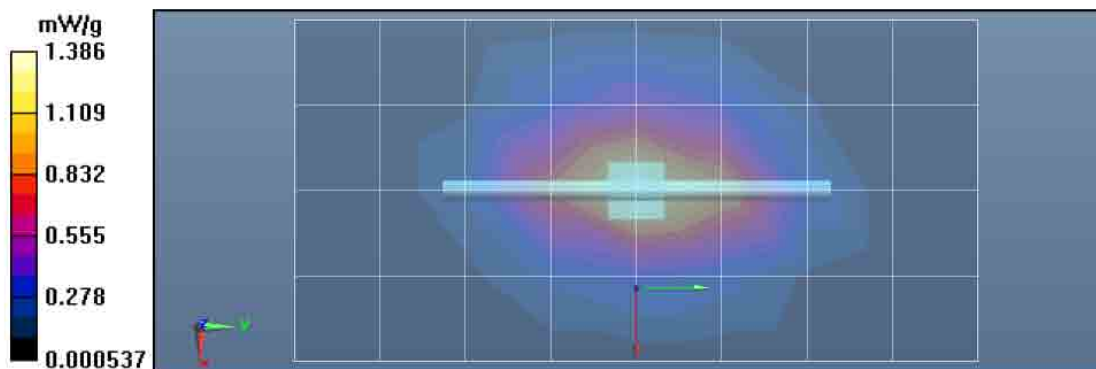
Measurement grid: dx=15mm, dy=15mm
 Reference Value = 31.648 V/m; Power Drift = 0.01 dB
Fast SAR: SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.639 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.44 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 31.648 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 2.402 mW/g
SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.621 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.40 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.41 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/23/2012 9:11:54 AM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-1900H-120523-01
 Dipole Model# D1900V2
 Phantom#: SAMTP1234
 Tissue Temp: 20.5 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 41.34 mW/g (1g)
 Adjusted SAR (1W): 39.67 mW/g (1g)
 Percent from Target (+/-): 4.0 % (1g)
 Rotation (1D): 0.16 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.36$ mho/m; $\epsilon_r = 38$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

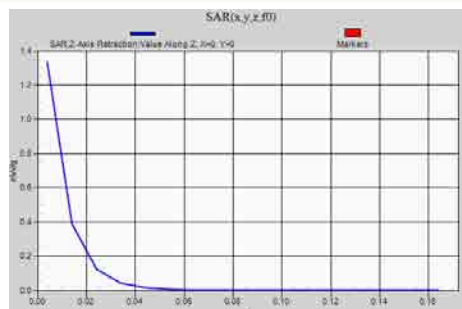
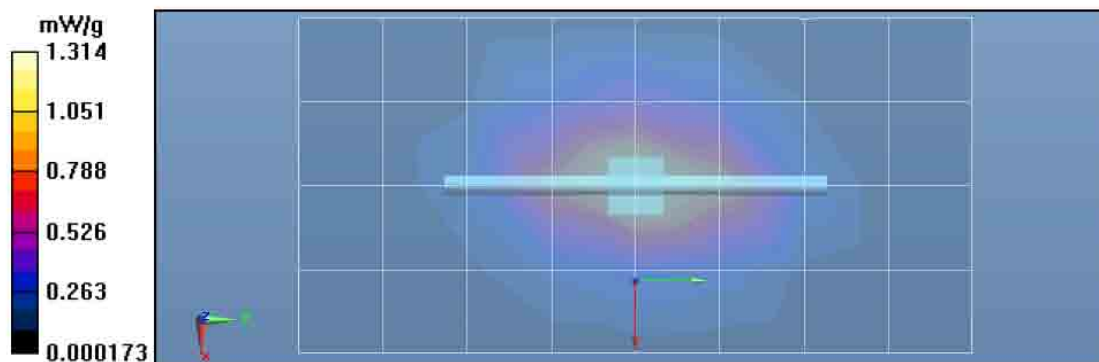
Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 31.869 V/m; Power Drift = 0.01 dB
Fast SAR: SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.612 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 1.35 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 31.869 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 2.258 mW/g
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.596 mW/g (SAR corrected for target medium)

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.33 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/26/2012 2:06:21 PM

Robot#: DASY5-FL-3 | Run#: HvH-SYSP-835B-120526-11
 Dipole Model# D835V2
 Phantom#: OVAL1016
 Tissue Temp: 21.0 (C)
 Serial#: 435
 Test Freq: 835 (MHz)
 Start Power: 250 (mW)

Target SAR (1W): 9.84 mW/g (1g)
 Adjusted SAR (1W): 9.56 mW/g (1g)
 Percent from Target (+/-): 2.8 % (1g)
 Rotation (1D): 0.14 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 1.01$ mho/m; $\epsilon_r = 55$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.75, 5.75, 5.75); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

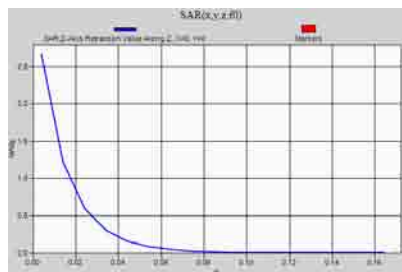
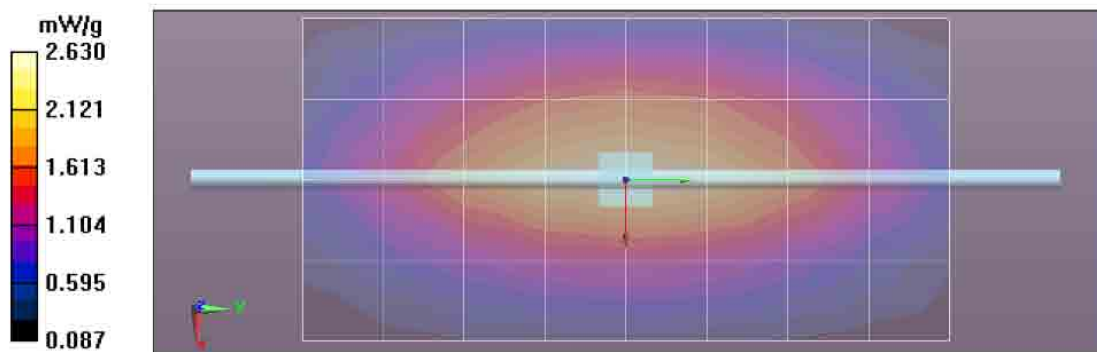
Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (41x81x1):

Measurement grid: dx=15mm, dy=15mm
 Reference Value = 51.613 V/m; Power Drift = 0.01 dB
Fast SAR: SAR(1 g) = 2.4 mW/g; SAR(10 g) = 1.62 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 2.66 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 51.613 V/m; Power Drift = 0.01 dB
 Peak SAR (extrapolated) = 3.751 mW/g
SAR(1 g) = 2.39 mW/g; SAR(10 g) = 1.56 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 2.67 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm



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Date/Time: 5/29/2012 12:19:27 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-1900B-120529-01
 Dipole Model# D1900V2
 Phantom#: TRIPLE1117 - 2
 Tissue Temp: 20.9 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 30 (mW)

Target SAR (1W): 40.89 mW/g (1g)
 Adjusted SAR (1W): 37.67 mW/g (1g)
 Percent from Target (+/-): 7.9 % (1g)
 Rotation (1D): 0.14 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.5$ mho/m; $\epsilon_r = 51.1$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.63, 4.63, 4.63); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

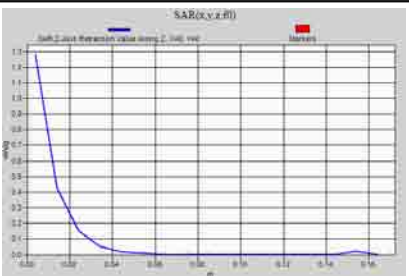
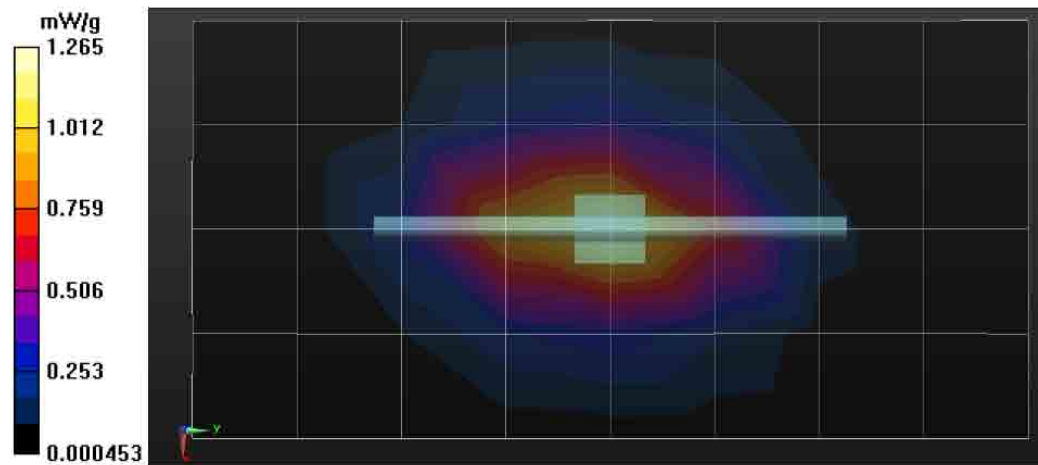
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 1.27 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 29.677 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 2.059 mW/g
SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.584 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 1.25 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 1.28 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/6/2012 3:49:42 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-1900H-120606-15
 Dipole Model# D1900V2
 Phantom#: SAMTP1234
 Tissue Temp: 22.2 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 41.34 mW/g (1g)
 Adjusted SAR (1W): 41.60 mW/g (1g)
 Percent from Target (+/-): 0.6 % (1g)
 Rotation (1D): 0.07 dB

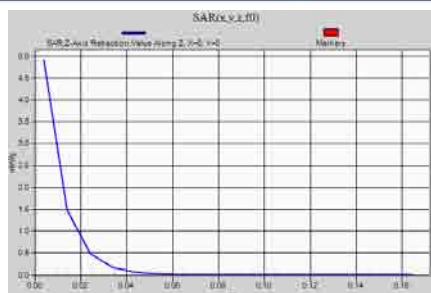
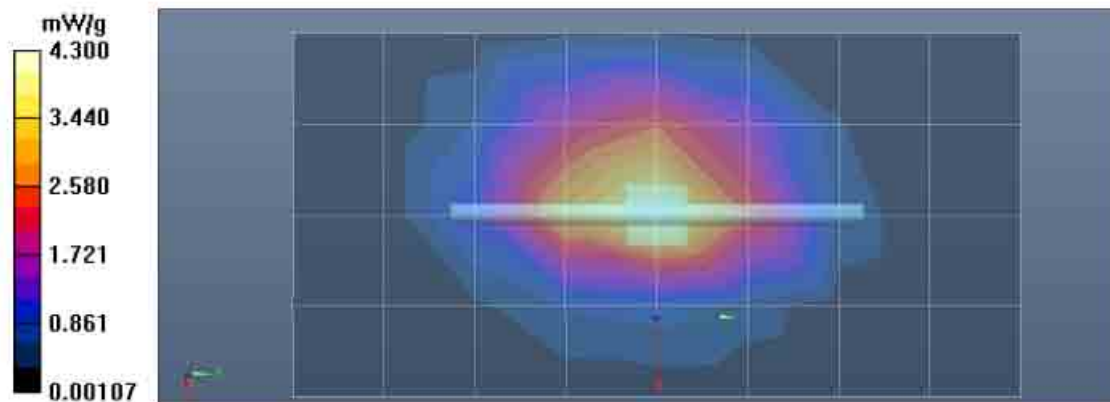
Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, ConvF(4.79, 4.79, 4.79), Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement
 grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 4.30 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 58.894 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 7.998 mW/g
 SAR(1 g) = 4.16 mW/g; SAR(10 g) = 2.16 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 4.79 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement
 grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 4.91 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/11/2012 2:30:07 PM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-1900B-120611-08
 Dipole Model#: D1900V2
 Phantom#: TRIPLE1117 - 2
 Tissue Temp: 20.9 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 40.89 mW/g (1g)
 Adjusted SAR (1W): 37.00 mW/g (1g)
 Percent from Target (+/-): 9.5 % (1g)
 Rotation (1D): 0.17 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: $f = 1900$ MHz; $\sigma = 1.55$ mho/m; $\epsilon_r = 51.3$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3185, , ConvF(4.63, 4.63, 4.63); Calibrated: 11/17/2011

Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 4.15 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 53.342 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 6.845 mW/g

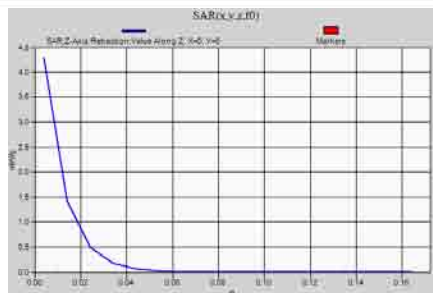
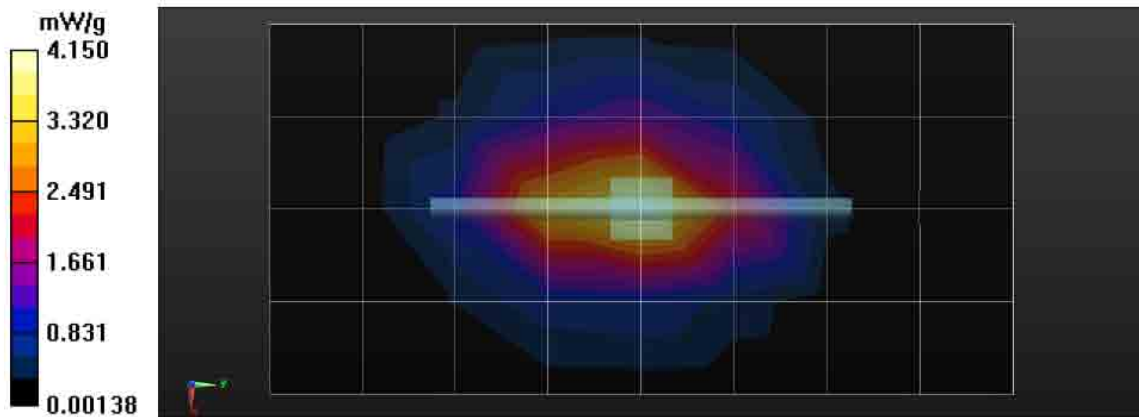
SAR(1 g) = 3.7 mW/g; SAR(10 g) = 1.93 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.22 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.28 mW/g



Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/13/2012 11:39:34 AM

Robot#: DASY5-FL-3 | Run#: ErC-SYSP-1900B-120613-02
 Dipole Model# D1900V2
 Phantom#: TRIPLE1117 - 2
 Tissue Temp: 20.1 (C)
 Serial#: 521
 Test Freq: 1900 (MHz)
 Start Power: 100 (mW)

Target SAR (1W): 40.89 mW/g (1g)
 Adjusted SAR (1W): 39.30 mW/g (1g)
 Percent from Target (+/-): 3.9 % (1g)
 Rotation (1D): 0.16 dB

Comments:

Duty Cycle: 1:1, Medium parameters used: f = 1900 MHz; $\sigma = 1.58$ mho/m; $\epsilon_r = 51.2$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, ConvF(4.63, 4.63, 4.63); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.4/System Performance Check/Dipole Area Scan 2 (5x9x1): Measurement

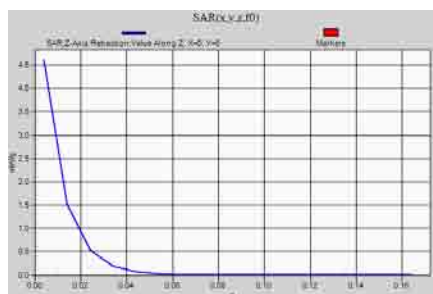
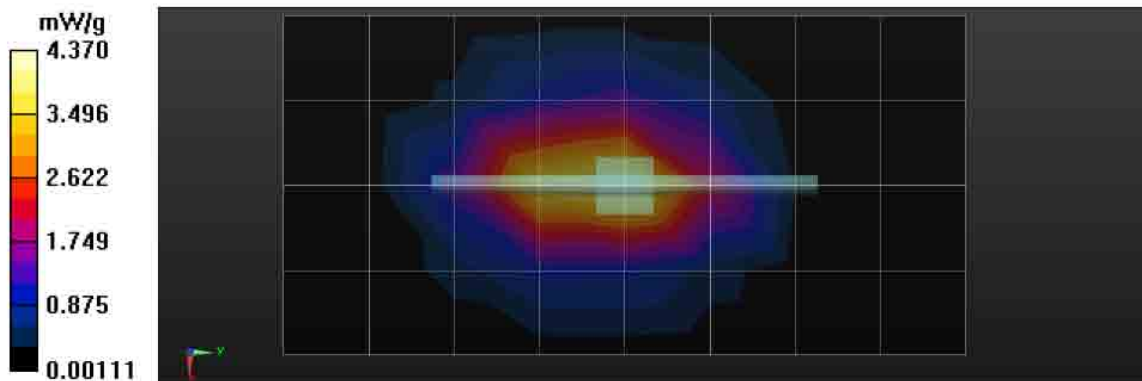
grid: dx=15mm, dy=15mm
 Maximum value of SAR (measured) = 4.37 mW/g

Below 3 GHz-Rev.4/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 54.689 V/m; Power Drift = 0.00 dB
 Peak SAR (extrapolated) = 7.365 mW/g
SAR(1 g) = 3.93 mW/g; SAR(10 g) = 2.05 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 4.52 mW/g

Below 3 GHz-Rev.4/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 4.61 mW/g



F.7. DUT Scans (Shortened Scan and Highest SAR Configuration)

Shortened Scan Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 6/6/2012 4:42:14 PM

Robot#: DASY5-FL-3 | Run#: CM-Lear-120606-18
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 21.9 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1908.75 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.16218 (W)

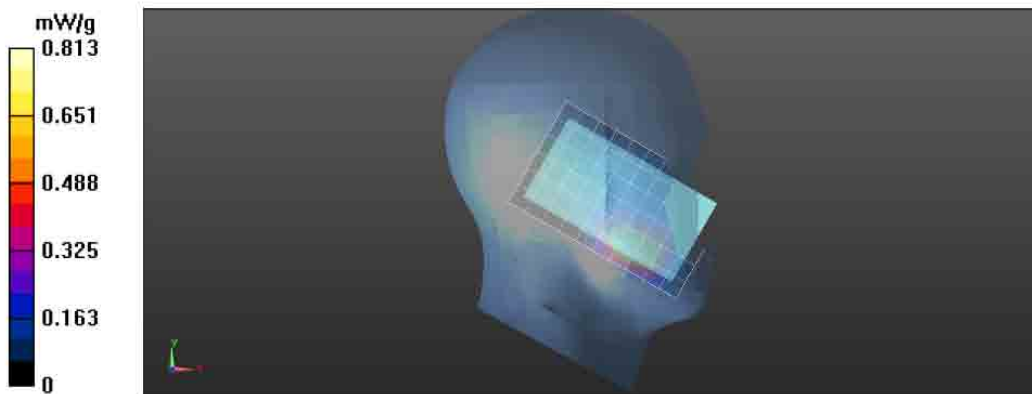
Comments: Touch: Shortened scan
 REV O - EVDO - Maximum output channel at 153.6kbps. ACK in all slots. All up bits.

Duty Cycle: 1:1, Medium parameters used: f = 1909 MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 38.9$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-Touch position/1-Area Scan (61x101x1): Measurement grid:
 dx=15mm, dy=15mm
 Reference Value = 11.938 V/m; Power Drift = 0.05 dB
Fast SAR: SAR(1 g) = 0.807 mW/g; SAR(10 g) = 0.449 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.903 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 25.846 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 1.350 mW/g
SAR(1 g) = 0.885 mW/g; SAR(10 g) = 0.519 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.963 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.941 mW/g



Shortened scan reflect highest SAR producing configuration; approximate run time is 7 minutes.
 Representative full scan run time was 16 minutes.

“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 1.024mW/g; 10-g Avg. = 0.601mW/g.

Zoom scan max calculated SAR using SAR drift (see Table F.11): 1-g Avg. = 1.099mW/g; 10-g Avg. = 0.618 mW/g.

Highest SAR Configuration Result

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/22/2012 9:41:11 PM

Robot#: DASY5-FL-3 | Run#: CM-Lear-120522-15
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 20.0 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1908.75 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.16218 (W)

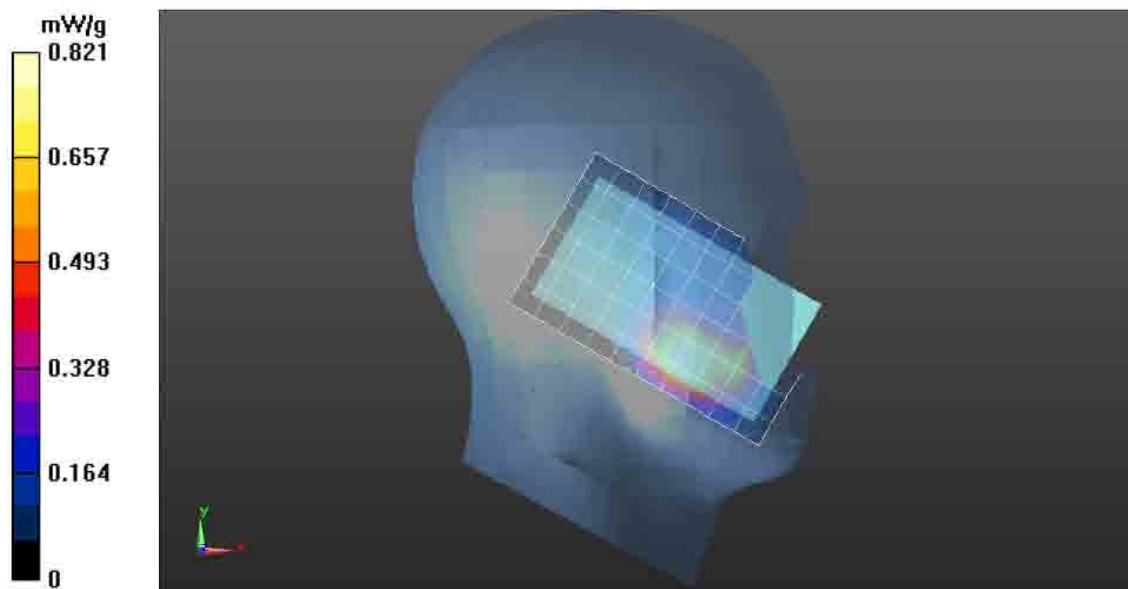
Comments: Touch;
 REV O - EVDO - Maximum output channel at 153.6kbps. ACK in all slots. All up bits.

Duty Cycle: 1:1, Medium parameters used: $f = 1909$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-Touch position/1-Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 9.539 V/m; Power Drift = -0.32 dB
Fast SAR: SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.497 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.997 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 9.539 V/m; Power Drift = -0.54 dB
 Peak SAR (extrapolated) = 1.976 mW/g
SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.476 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.951 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.773 mW/g



DUT Scans

Body 824.7 – 848.31 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/26/2012 4:19:31 PM

Robot#: DASY5-FL-3 | Run#: CM-Ab-120526-17
 Model#: LEX700
 Phantom#: OVAL1016
 Tissue Temp: 20.5 (C)
 Serial#: 12053522500224
 Antenna: CDMA 25.90AD4.001
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: TTN1002N
 Audio Acc: None
 Start Power: .17783 (W)

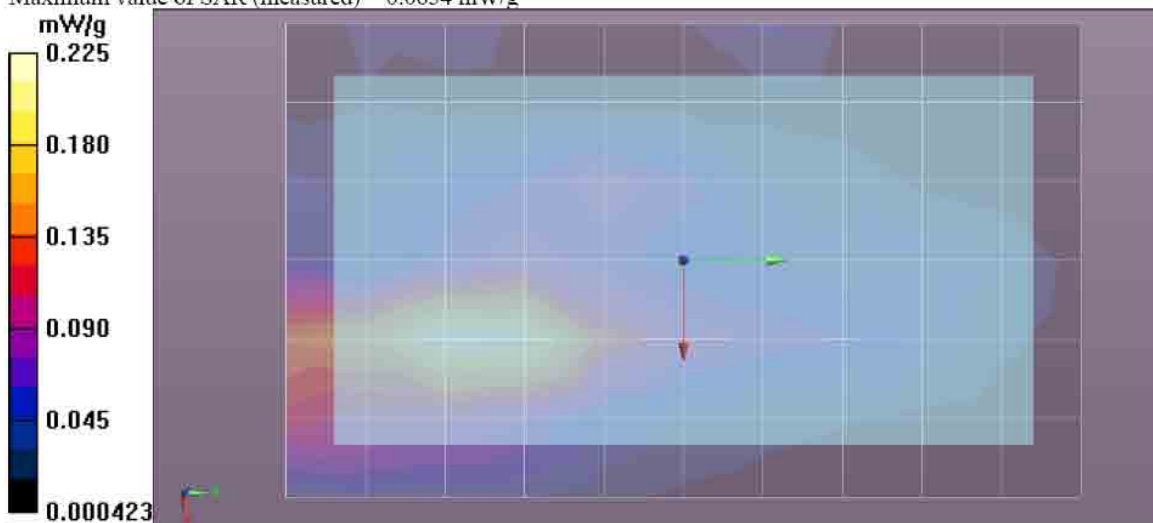
Comments: Shortened scan; Back/Top up, Battery facing phantom.
 REV O - RC3 - SO32 - 'Bits Hold" full rate on FCH other code channels disabled, max output (+F-FSCH) full rate on FCH, SCH enabled for 9600bps.

Duty Cycle: 1:1, Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 1.01 \text{ mho/m}$; $\epsilon_r = 55$; $\rho = 1000 \text{ kg/m}^3$
 Probe: ES3DV3 - SN3185, , ConvF(5.75, 5.75, 5.75); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 11.047 V/m; Power Drift = 0.10 dB
Fast SAR: SAR(1 g) = 0.203 mW/g; SAR(10 g) = 0.123 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.236 mW/g

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan 2 (8x7x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 10.107 V/m; Power Drift = 0.41 dB
 Peak SAR (extrapolated) = 0.307 mW/g
SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.145 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.227 mW/g

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.0634 mW/g



Right Ear - Touch 824.7 – 848.31 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/19/2012 9:01:45 AM

Robot#: DASY5-FL-3 | Run#: HvH-Rear-120519-04
 Model#: LEX700
 Phantom#: SAMTP1208
 Tissue Temp: 20.2 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.17783 (W)

Comments: Touch; REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1, Medium parameters used: f = 835 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011

Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-Touch Position/1-Area Scan (61x101x1): Measurement grid:

dx=15mm, dy=15mm

Reference Value = 21.475 V/m; Power Drift = -0.13 dB

Fast SAR: SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.301 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.446 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/3-Zoom Scan (6x6x7)/Cube 0: Measurement

grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 21.475 V/m; Power Drift = -0.21 dB

Peak SAR (extrapolated) = 0.594 mW/g

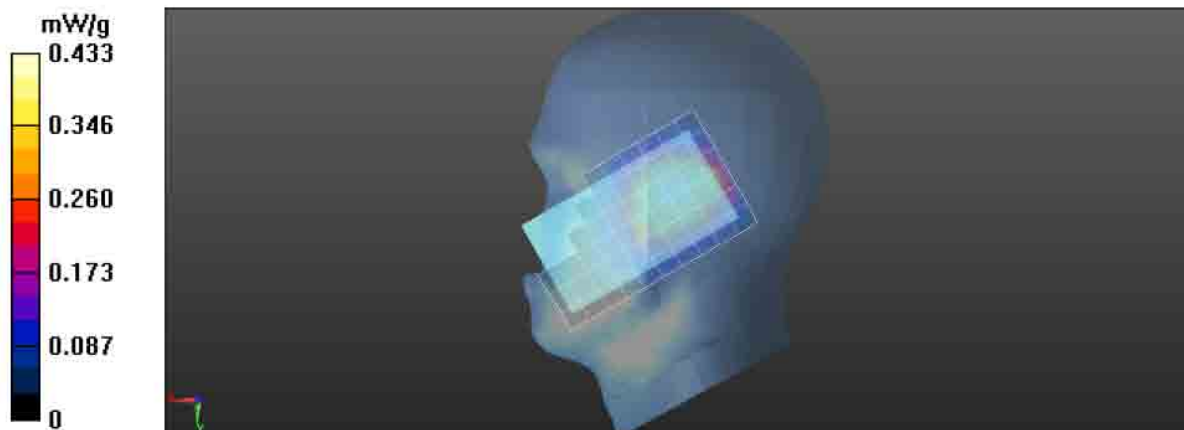
SAR(1 g) = 0.403 mW/g; SAR(10 g) = 0.294 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.421 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement grid:

dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 0.408 mW/g



Right Ear - Tilt 824.7 – 848.31 MHz Band
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/19/2012 10:26:42 AM

Robot#: DASY5-FL-3 | Run#: HvH-Rear-120519-06
 Model#: LEX700
 Phantom#: SAMTP1208
 Tissue Temp: 20.0 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.17783 (W)

Comments: Tilt: REV O - Rvs3.Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1, Medium parameters used; f = 835 MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/1-Area Scan (61x101x1): Measurement grid:

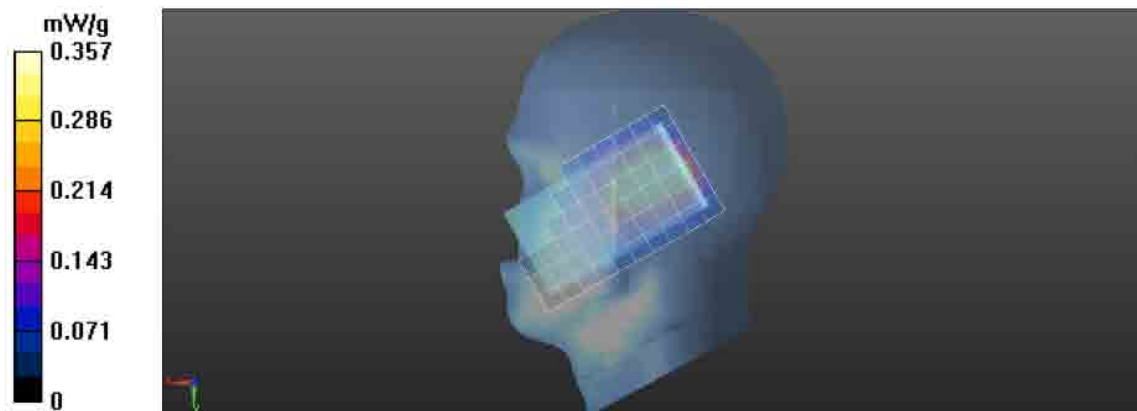
dx=15mm, dy=15mm
 Reference Value = 17.715 V/m; Power Drift = -0.02 dB
Fast SAR: SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.227 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.383 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/3-Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 17.715 V/m; Power Drift = 0.04 dB
 Peak SAR (extrapolated) = 0.622 mW/g
SAR(1 g) = 0.339 mW/g; SAR(10 g) = 0.204 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.370 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/4-Z-Axis Scan (1x1x17): Measurement grid:

dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.373 mW/g



Left Ear – Touch 824.7 – 848.31 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/19/2012 12:23:43 PM

Robot#: DASY5-FL-3 | Run#: HvH-Lear-120519-09
 Model#: LEX700
 Phantom#: SAMTP1208
 Tissue Temp: 20.2 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.17783 (W)

Comments: Touch; REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-Touch position/1-Area Scan (61x101x1): Measurement grid:
 $dx=15$ mm, $dy=15$ mm

Reference Value = 23.006 V/m; Power Drift = -0.08 dB

Fast SAR: SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.362 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.590 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 23.006 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.751 mW/g

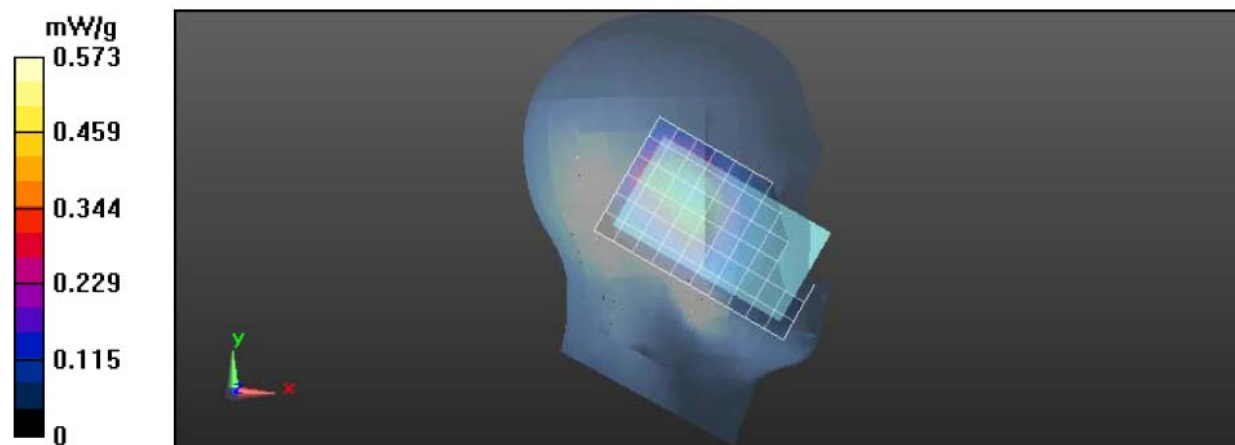
SAR(1 g) = 0.534 mW/g; SAR(10 g) = 0.369 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.559 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid:

$dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.568 mW/g



Left Ear – Tilt 824.7 – 848.31 MHz Band**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 5/19/2012 1:02:04 PM

Robot#: DASY5-FL-3 | Run#: HvH-Lear-120519-10
 Model#: LEX700
 Phantom#: SAMTP1208
 Tissue Temp: 20.3 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.17783 (W)

Comments: Tilt: REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/1-Area Scan (61x101x1): Measurement grid:
 dx=15mm, dy=15mm

Reference Value = 18.469 V/m; Power Drift = -0.10 dB

Fast SAR: SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.236 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.384 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/3-Zoom Scan (6x9x7)/Cube 0: Measurement grid:
 dx=7.5mm, dy=7.5mm, dz=5mm

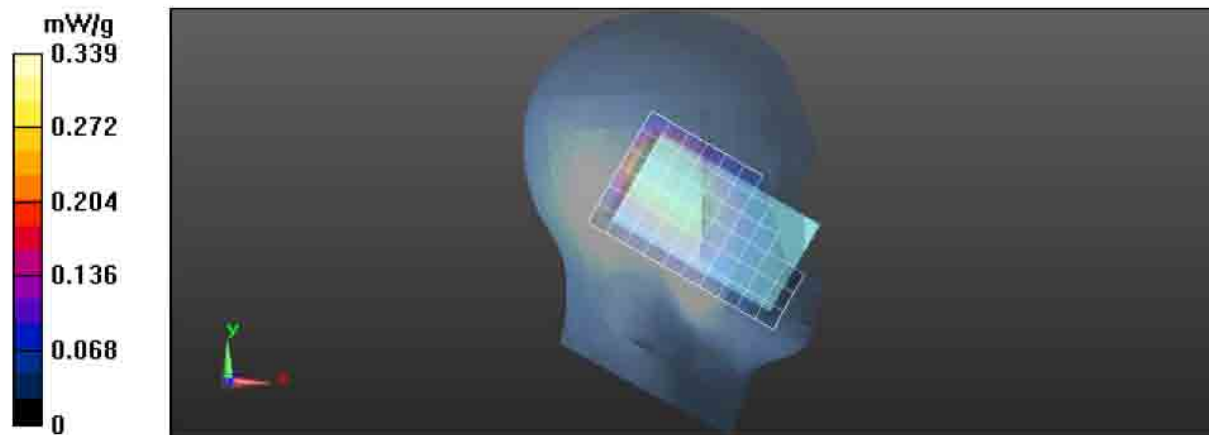
Reference Value = 18.469 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.639 mW/g

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.219 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.378 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm



Face 824.7 – 848.31 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/19/2012 3:20:38 PM

Robot#: DASY5-FL-3 | Run#: HvH-Face-120519-14
 Model#: LEX700
 Phantom#: SAMTP1208
 Tissue Temp: 20.4 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 835.0200 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.17783 (W)

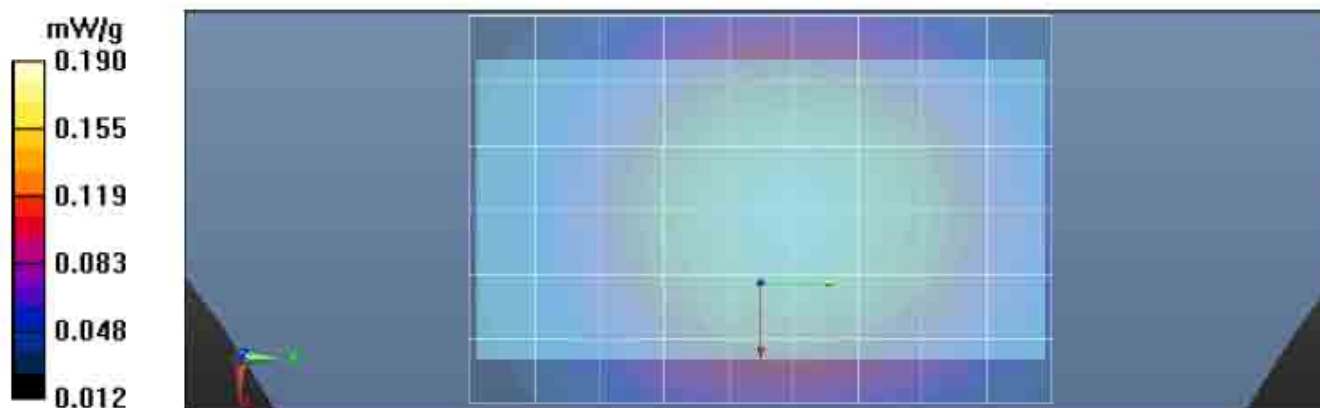
Comments: Front of DUT at 2.5cm.

Duty Cycle: 1:1, Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.7$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(5.64, 5.64, 5.64); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (61x91x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 13.910 V/m; Power Drift = -0.08 dB
 Fast SAR: SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.129 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.190 mW/g

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 13.910 V/m; Power Drift = -0.11 dB
 Peak SAR (extrapolated) = 0.233 mW/g
 SAR(1 g) = 0.178 mW/g; SAR(10 g) = 0.132 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.187 mW/g

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.188 mW/g



Body 1851.25-1908.75 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/29/2012 9:01:17 PM

Robot#: DASY5-FL-3 | Run#: CM-Ab-120529-14
 Model#: LEX700
 Phantom#: TRIPLE1117-2
 Tissue Temp: 20.6 (C)
 Serial#: 12053522500224
 Antenna: CDMA 25.90AD4.001
 Test Freq: 1851.25 (MHz)
 Battery: 82-154162-01 w/60.15U26.001
 Carry Acc: TTN1002A
 Audio Acc: None
 Start Power: .18197 (W)

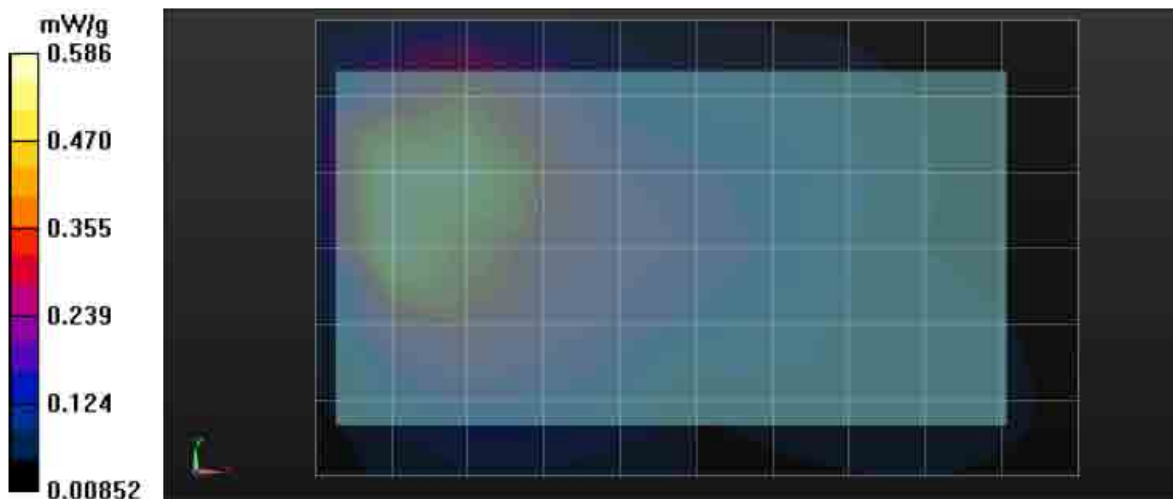
Comments: Shortened scan. Front/Bottom up, Display facing phantom. Modified Holster.
 REV O - EVDO - Maximum output channel at 153.6 kbps, with ACK in all slots, all up bits.

Duty Cycle: 1:1, Medium parameters used: $f = 1851$ MHz; $\sigma = 1.47$ mho/m; $\epsilon_r = 51.4$, $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.61, 4.61, 4.61); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Ab Scan/1-Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 22.090 V/m; Power Drift = -1.15 dB
 Fast SAR: SAR(1 g) = 0.662 mW/g; SAR(10 g) = 0.366 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.769 mW/g

Below 3 GHz-Rev.5/Ab Scan/3-Zoom Scan 2 (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 23.437 V/m; Power Drift = -0.27 dB
 Peak SAR (extrapolated) = 1.935 mW/g
 SAR(1 g) = 0.747 mW/g; SAR(10 g) = 0.400 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.747 mW/g

Below 3 GHz-Rev.5/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.708 mW/g



Right Ear - Tilt 1851.25-1908.75 MHz Band
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/21/2012 11:40:33 AM

Robot#: DASY5-FL-3 | Run#: HvH-Rear-120521-04
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 20.6 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1880 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.16982 (W)

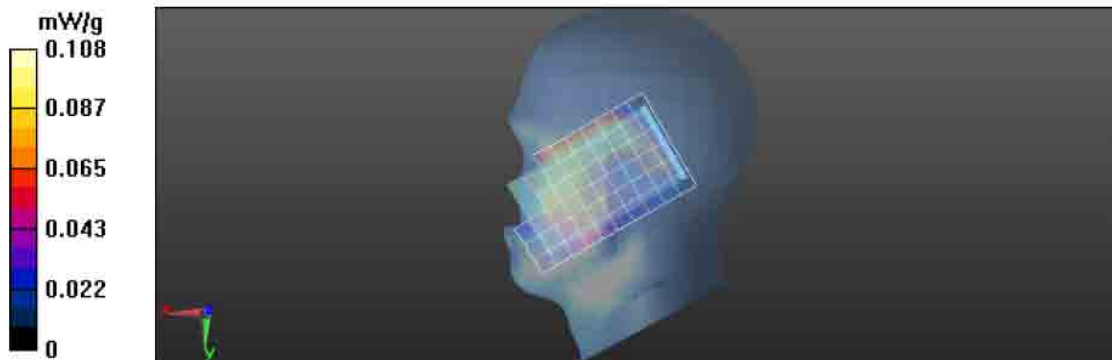
Comments: EXTRA Expanded SAM - Tilt;
 REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:8.30042, Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConyF(5.07, 5.07, 5.07); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/1-Area Scan (61x101x1): Measurement grid:
 dx=15mm, dy=15mm
 Reference Value = 7.305 V/m; Power Drift = -0.05 dB
Fast SAR: SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.062 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.123 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/3-Zoom Scan (5x5x7)/Cube 0:
 Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 7.305 V/m; Power Drift = -0.01 dB
 Peak SAR (extrapolated) = 0.159 mW/g
SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.062 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.109 mW/g

Below 3 GHz-Rev.5/Right Ear-15D Tilt Position/4-Z-Axis Scan (1x1x17): Measurement grid:
 dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.110 mW/g



Right Ear - Touch 1851.25-1908.75 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/21/2012 12:49:13 PM

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Robot#: DASY5-FL-3 | Run#: HvH-Rear-120521-06
Model#: LEX700
Phantom#: SAMTP1234
Tissue Temp: 20.5 (C)
Serial#: 12053522500224
Antenna: CDMA (25.90AD4.001)
Test Freq: 1908.75 (MHz)
Battery: 82-154162-01 with 60.15U26.001
Carry Acc: None
Audio Acc: None
Start Power: 0.14454 (W)
    
```

Comments: EXTRA Expanded SAM - Touch;
 REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1. Medium parameters used: f = 1909 MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, . ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Right Ear-Touch Position/1-Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

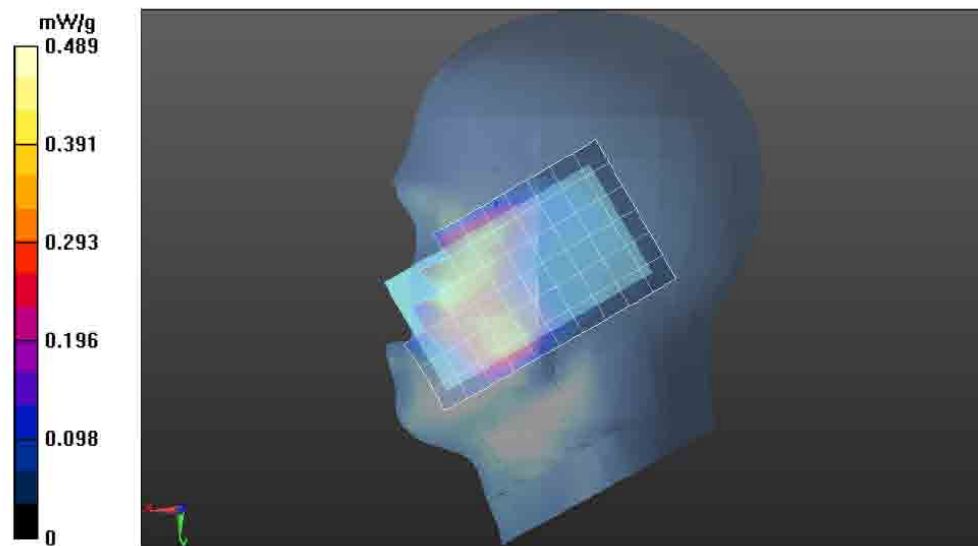
Reference Value = 14.145 V/m; Power Drift = -0.15 dB
Fast SAR: SAR(1 g) = 0.434 mW/g; SAR(10 g) = 0.240 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.497 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 14.145 V/m; Power Drift = -0.50 dB
 Peak SAR (extrapolated) = 0.858 mW/g
SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.275 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.472 mW/g

Below 3 GHz-Rev.5/Right Ear-Touch Position/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm,

dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.243 mW/g



Left Ear - Tilt 1851.25-1908.75 MHz Band

Motorola Solutions, Inc. EME Laboratory

Date/Time: 5/21/2012 2:49:30 PM

Robot#: DASY5-FL-3 | Run#: HvH-Lear-120521-08
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 20.3 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1880 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.16982 (W)

Comments: Tilt; REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:8.30042. Medium parameters used: $f = 1880$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³

Probe: ES3DV3 - SN3185. . ConvF(5.07, 5.07, 5.07); Calibrated: 11/17/2011

Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/1-Area Scan (61x101x1): Measurement grid:

$dx=15$ mm, $dy=15$ mm

Reference Value = 7.064 V/m; Power Drift = 0.06 dB

Fast SAR: SAR(1 g) = 0.095 mW/g; SAR(10 g) = 0.059 mW/g (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 0.114 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/3-Zoom Scan (6x6x7)/Cube 0: Measurement

grid: $dx=7.5$ mm, $dy=7.5$ mm, $dz=5$ mm

Reference Value = 7.064 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.199 mW/g

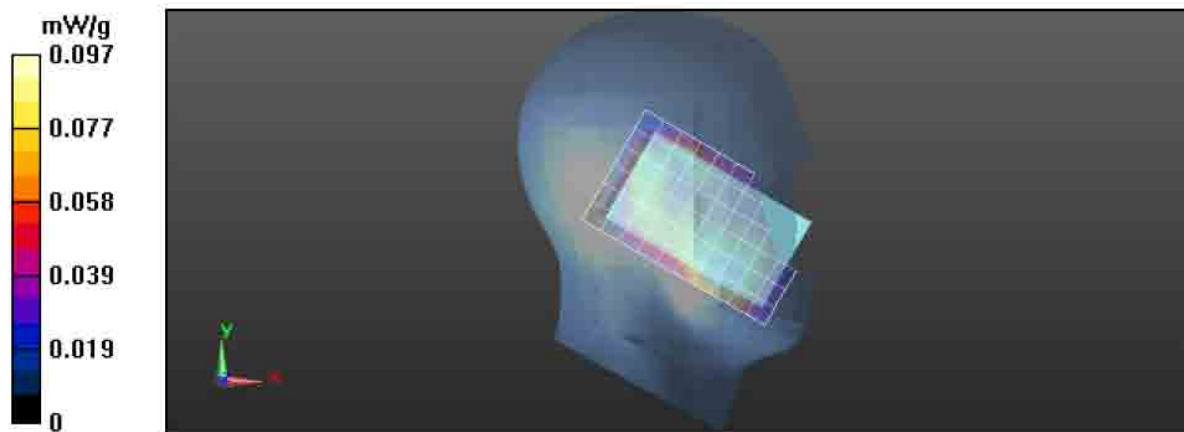
SAR(1 g) = 0.109 mW/g; SAR(10 g) = 0.057 mW/g (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.126 mW/g

Below 3 GHz-Rev.5/Left Ear-15D Tilt position/4-Z-Axis Scan (1x1x17): Measurement grid:

$dx=20$ mm, $dy=20$ mm, $dz=10$ mm

Maximum value of SAR (measured) = 0.131 mW/g



Left Ear - Touch 1851.25-1908.75 MHz Band
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/22/2012 9:41:11 PM

Robot#: DASY5-FL-3 | Run#: CM-Lear-120522-15
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 20.0 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1908.75 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.16218 (W)

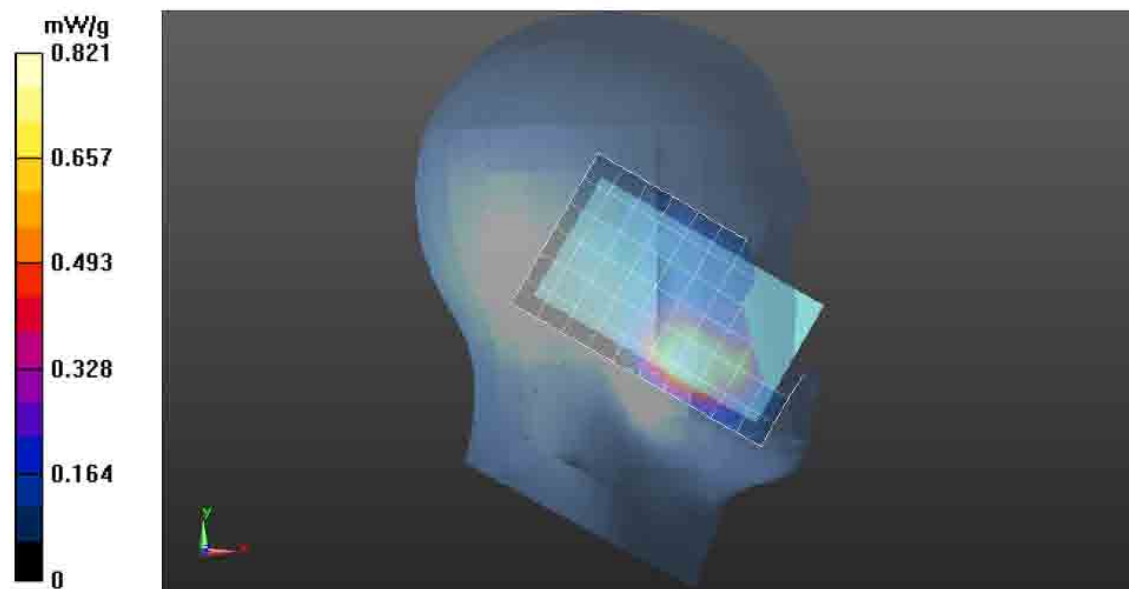
Comments: Touch;
 REV O - EVDO - Maximum output channel at 153.6kbps. ACK in all slots. All up bits.

Duty Cycle: 1:1, Medium parameters used: $f = 1909$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, , ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363, Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Left Ear-Touch position/1-Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 9.539 V/m; Power Drift = -0.32 dB
Fast SAR: SAR(1 g) = 0.888 mW/g; SAR(10 g) = 0.497 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.997 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 9.539 V/m; Power Drift = -0.54 dB
 Peak SAR (extrapolated) = 1.976 mW/g
SAR(1 g) = 0.846 mW/g; SAR(10 g) = 0.476 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.951 mW/g

Below 3 GHz-Rev.5/Left Ear-Touch position/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.773 mW/g



Face 1851.25-1908.75 MHz Band
Motorola Solutions, Inc. EME Laboratory
 Date/Time: 5/21/2012 10:32:32 PM

Robot#: DASY5-FL-3 | Run#: CM-Face-120521-14
 Model#: LEX700
 Phantom#: SAMTP1234
 Tissue Temp: 20.7 (C)
 Serial#: 12053522500224
 Antenna: CDMA (25.90AD4.001)
 Test Freq: 1908.75 (MHz)
 Battery: 82-154162-01 with 60.15U26.001
 Carry Acc: None
 Audio Acc: None
 Start Power: 0.14454 (W)

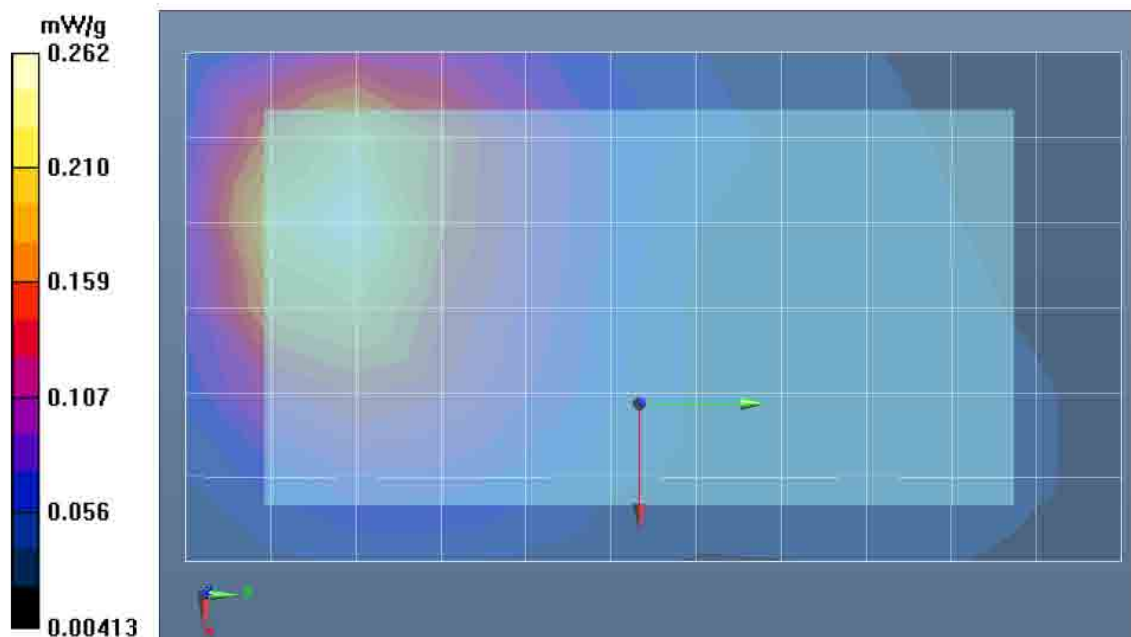
Comments: Front of DUT at 2.5cm.
 REV O - Rvs3,Fwd3 - RC3-SO55-bits "ALL UP" full rate - Loopback SO55

Duty Cycle: 1:1. Medium parameters used: $f = 1909$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 38.6$; $\rho = 1000$ kg/m³
 Probe: ES3DV3 - SN3185, . ConvF(4.79, 4.79, 4.79); Calibrated: 11/17/2011
 Electronics: DAE3 Sn363. Calibrated: 1/20/2012

Below 3 GHz-Rev.5/Face Scan/1-Area Scan (61x111x1): Measurement grid: dx=15mm, dy=15mm
 Reference Value = 11.657 V/m; Power Drift = -0.12 dB
Fast SAR: SAR(1 g) = 0.250 mW/g; SAR(10 g) = 0.151 mW/g (SAR corrected for target medium)
 Maximum value of SAR (interpolated) = 0.271 mW/g

Below 3 GHz-Rev.5/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Reference Value = 11.657 V/m; Power Drift = -0.12 dB
 Peak SAR (extrapolated) = 0.422 mW/g
SAR(1 g) = 0.255 mW/g; SAR(10 g) = 0.152 mW/g (SAR corrected for target medium)
 Maximum value of SAR (measured) = 0.279 mW/g

Below 3 GHz-Rev.5/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
 Maximum value of SAR (measured) = 0.276 mW/g



F.8. Power Slump Data

Rev O EvDO, Maximum output channel at 153.6kbps, with ACK in all slots and All up bits.

EVDO 1900 Channel 1175 (1908.75MHz)

Low capacity Battery (82-154162-01)

Time [min] Power [mW]

1	166.0
2	166.0
3	166.0
4	166.0
5	166.0
6	164.1
7	164.1
8	164.1
9	164.1
10	164.1
11	164.1
12	164.1
13	162.2
14	162.2
15	162.2
16	162.2
17	162.2
18	162.2
19	162.2
20	162.2
21	162.2
22	162.2
23	162.2
24	164.1
25	164.1
26	164.1
27	164.1
28	164.1
29	164.1
30	164.1
31	162.2
32	162.2
33	162.2
34	162.2
35	162.2
36	162.2
37	162.2
38	162.2
39	160.3
40	160.3
41	160.3
42	160.3
43	160.3
44	160.3
45	160.3
46	158.5
47	158.5
48	158.5
49	158.5

