

 MOTOROLA	 ACCREDITED TESTING CERT # 2518.01
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FCC ID: AZ489FT4881
DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2

Government & Public Safety EME Test Laboratory 8000 West Sunrise Blvd Fort Lauderdale, FL 33322	Date of Report: 3/27/08 Report Revision: 0 Report ID: XTS4000 Covert PCII_Rev O_080327_SR6203
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<p>Responsible Engineer: Michael Sailsman (SR. Staff EME Engineer) Date/s Tested: 2/19/08, 3/19/08-3/20/08 Manufacturer/Location: Motorola/Penang Sector/Group/Div.: GTDG Date submitted for test: 2/27/08 DUT Description: Covert UHF1 380-470 MHz 1-2.3 Watt radio Test TX mode(s): CW Max. Power output: 2.8 W Nominal Power: 2.3 W Tx Frequency Bands: 380-470MHz Signaling type: FM, APCO 25 Model(s) Tested: H18QCN9PW9AN/NUE3623A Model(s) Certified: H18QCN9PW9AN/NUE3623A Serial Number(s): 654CJD0000 Classification: Occupational/Controlled Rule Part(s): 90</p> <p>Antenna(s): NAE6552A (380-470MHz retractable ¼ wave antenna, -4dBi)</p> <p>Battery(ies): PMNN4083A (HiCAP Li-Ion battery 1260mAh)</p> <p>Body worn accessory(ies): NA</p> <p>Audio/Data cable accessory(ies): NNTN5006BP (Headset Earbud w/ PTT)</p>	
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Max. Calc. : 1-g Avg. SAR: 2.03 W/kg (Body); 10-g Avg. SAR: 1.47 W/kg (Body)
Max. Calc. : 1-g Avg. SAR: 1.37 W/kg (Face); 10-g Avg. SAR: 1.01 W/kg (Face)
Max. Calc. : 1-g Avg. SAR: 6.01 W/kg (Head); 10-g Avg. SAR: 3.32 W/kg (Head)

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 2.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola 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.

Signature on file Deanna Zakharia G&PS EME Lab Senior Resource Manager, Laboratory Director, Approval Date: 3/27/08	Certification Date: 3/27/08 Certification No.: 080309AD
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Appendix E
DUT Scans (Shortened Scans and Highest SAR configurations)

Shortened Scan Results

Motorola Government & Public Safety EME Laboratory

Date/Time: 3/20/2008 12:00:17 PM

Robot# / Run#: DASY4-FL-2 / HvH-Lear-080320-05
Phantom# / Tissue Temp.: SAMTP1209 / 22.0 (C)
DUT Model# / Serial#: H18QCN9PW9AN / NUE3623A / 654CJD0000
Antenna / TX Freq.: NAE6552A (In) / 380.0000 (MHz)
Battery: PMNN4083A
Carry Acc. / Cable Acc.: None / None
Start Power: 2.48 (W)

Comments: Touch, Shortened Scan

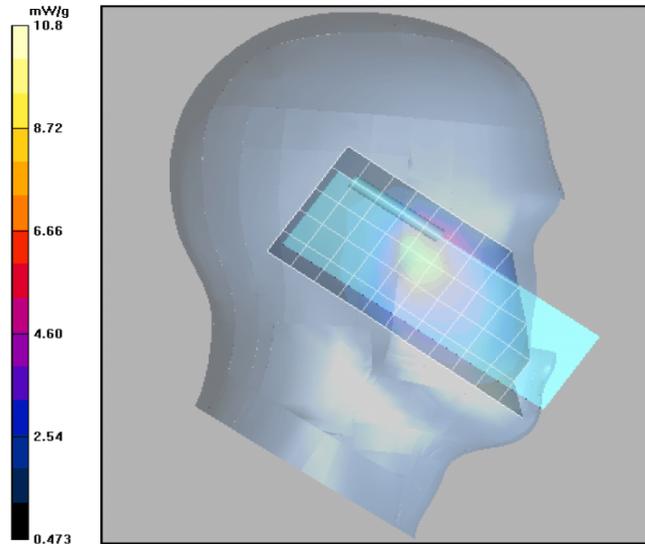
Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(7.08, 7.08, 7.08)
Electronics: DAE3 Sn401, Calibrated: 8/28/2007
Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Left Ear-Touch position/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 117.4 V/m; Power Drift = -0.278 dB
Peak SAR (extrapolated) = 24.7 W/kg
SAR(1 g) = 9.98 mW/g; SAR(10 g) = 5.51 mW/g
Maximum value of SAR (measured) = 10.8 mW/g

Left Ear-Touch position/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 8.68 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 10.3 mW/g

Shortened scan reflect highest SAR producing configuration; Run time 8 minutes.
Representative “normal” scan run time was 19 minutes
“Shortened” scan max calculated SAR using SAR drift: 1-g Avg. = 6.01mW/g; 10-g Avg. = 3.32mW/g
“Normal” scan max calculated SAR using SAR drift: 1-g Avg. = 4.75mW/g; 10-g Avg. = 2.74mW/g
(see part 1 of 2 section 9.0 run # HvH-Lear-080320-04)



Highest SAR Configurations Results

Motorola Government & Public Safety EME Laboratory

Date/Time: 3/20/2008 10:43:59 AM

Robot# / Run#: DASY4-FL-2 / HvH-Lear-080320-04
Phantom# / Tissue Temp.: SAMTP1209 / 21.9 (C)
DUT Model# / Serial#: H18QCN9PW9AN / NUE3623A / 654CJD0000
Antenna / TX Freq.: NAE6552A (In) / 380.0000 (MHz)
Battery: PMNN4083A
Carry Acc. / Cable Acc.: None / None
Start Power: 2.47 (W)

Comments: Touch
Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(7.08, 7.08, 7.08)
Electronics: DAE3 Sn401, Calibrated: 8/28/2007

Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; sigma = 0.84 mho/m; epsilon_r = 43.5; rho = 1000 kg/m^3

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

Reference Value = 76.3 V/m; Power Drift = 0.147 dB

Peak SAR (extrapolated) = 18.7 W/kg

SAR(1 g) = 8.38 mW/g; SAR(10 g) = 4.83 mW/g

Warning: Maximum averaged SAR over 10 g is located on the boundary of the measurement cube. This cube might not incorporate the absolute averaged SAR. Please consider a refinement of the Area Scan measurement.

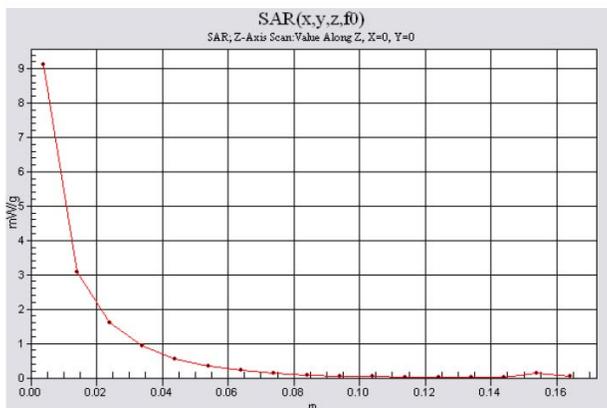
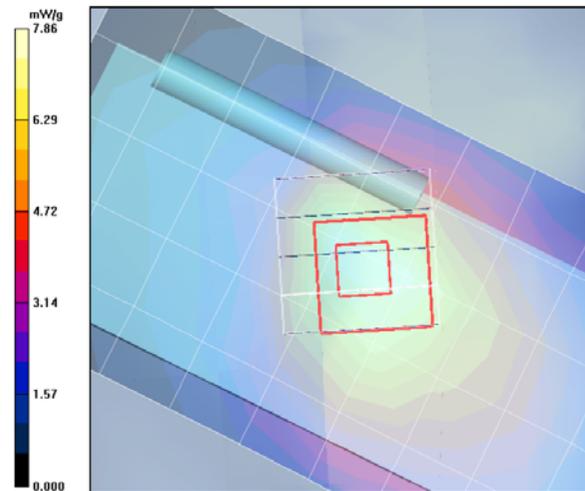
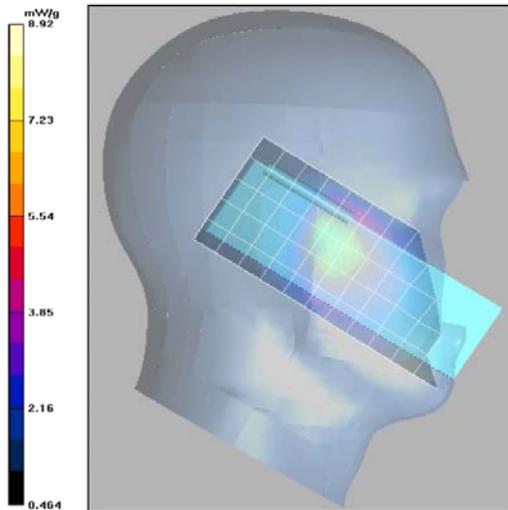
Maximum value of SAR (measured) = 8.92 mW/g

Left Ear-Touch position/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 7.86 mW/g

Left Ear-Touch position/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 9.12 mW/g



Motorola Government & Public Safety EME Laboratory
Date/Time: 2/19/2008 7:47:26 PM

Robot# / Run#: DASY4-FL-2 / MeC-Ab-080219-11
Phantom# / Tissue Temp.: 80302002B-S8 / 21.2 (C)
DUT Model# / Serial#: H18QCN9PW9AN / NUE3623A / 654CJD0000
Antenna / TX Freq.: NAE6552A (OUT) / 380.0000 (MHz)
Battery: PMMN4083A
Carry Acc. / Cable Acc.: None / NNTN5006BP
Start Power: 2.44 (W)

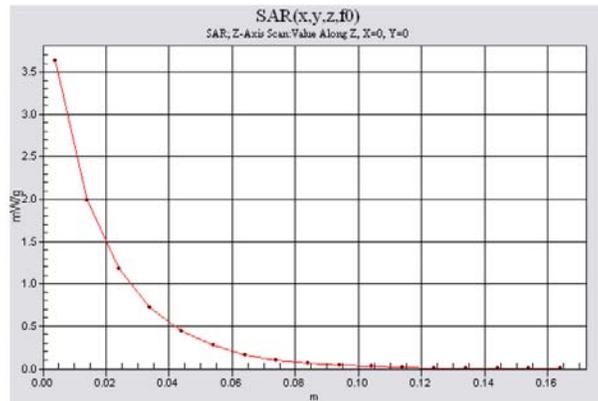
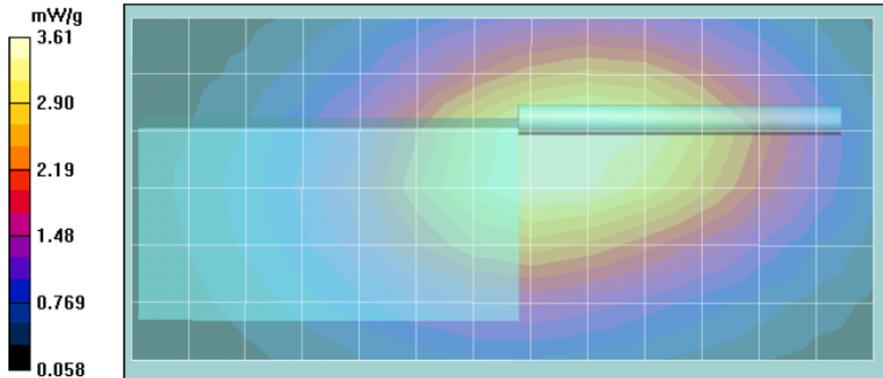
Comments: Back of DUT antenna @ 2.5 cm. from phantom, FULL SCAN.

Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(7.5, 7.5, 7.5)
Electronics: DAE3 Sn401, Calibrated: 8/28/2007
Duty Cycle: 1:1, Medium parameters used: f = 425 MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 56.7$; $\rho = 1000$ kg/m³

Ab Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 60.1 V/m; Power Drift = -0.0513 dB
Peak SAR (extrapolated) = 4.98 W/kg
SAR(1 g) = 3.49 mW/g; SAR(10 g) = 2.53 mW/g
Maximum value of SAR (measured) = 3.66 mW/g

Ab Scan/Area Scan (61x131x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 60.1 V/m; Power Drift = -0.0513 dB
Motorola Fast SAR: SAR(1 g) = 3.54 mW/g; SAR(10 g) = 2.6 mW/g
Maximum value of SAR (interpolated) = 3.73 mW/g

Ab Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 3.63 mW/g



Motorola Government & Public Safety EME Laboratory
Date/Time: 3/20/2008 9:49:51 AM

Robot# / Run#: DASY4-FL-2 / HvH-Face-080320-03
Phantom# / Tissue Temp.: SAMTP1209 / 21.9 (C)
DUT Model# / Serial#: H18QCN9PW9AN / NUE3623A / 654CJD0000
Antenna / TX Freq.: NAE6552A (OUT) / 380.0000 (MHz)
Battery: PMNN4083A
Carry Acc. / Cable Acc.: None / None
Start Power: 2.48 (W)

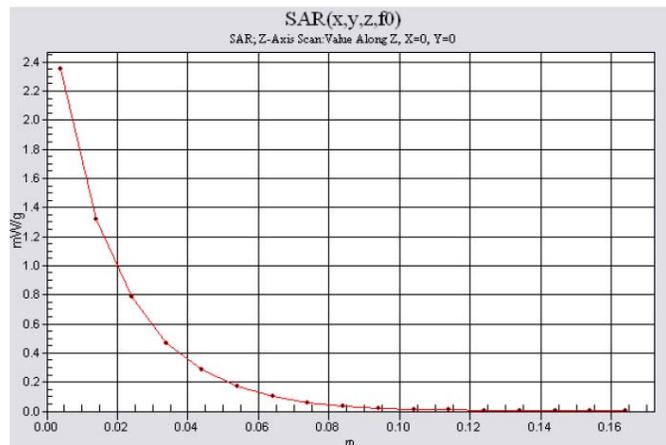
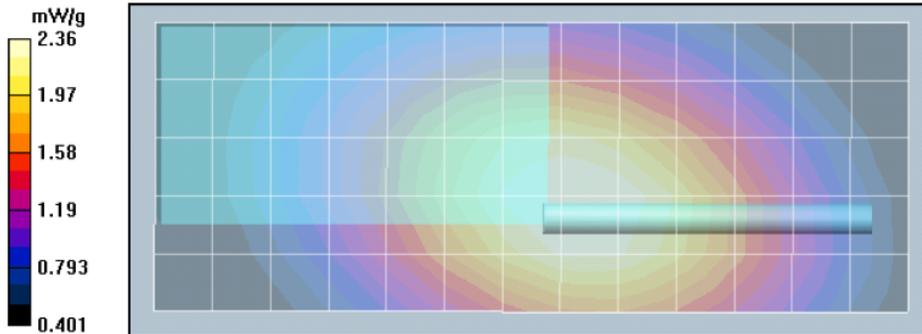
Comments: Flip Closed, FULL SCAN

Probe: ET3DV6 - SN1547, Calibrated: 11/19/2007, ConvF(7.08, 7.08, 7.08)
Electronics: DAE3 Sn401, Calibrated: 8/28/2007
Duty Cycle: 1:1, Medium parameters used: $f = 425$ MHz; $\sigma = 0.84$ mho/m; $\epsilon_r = 43.5$; $\rho = 1000$ kg/m³

Face Scan/5x5x7 Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
Reference Value = 54.1 V/m; Power Drift = -0.298 dB
Peak SAR (extrapolated) = 3.14 W/kg
SAR(1 g) = 2.26 mW/g; SAR(10 g) = 1.67 mW/g
Maximum value of SAR (measured) = 2.36 mW/g

Face Scan/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.40 mW/g

Face Scan/Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm
Maximum value of SAR (measured) = 2.35 mW/g



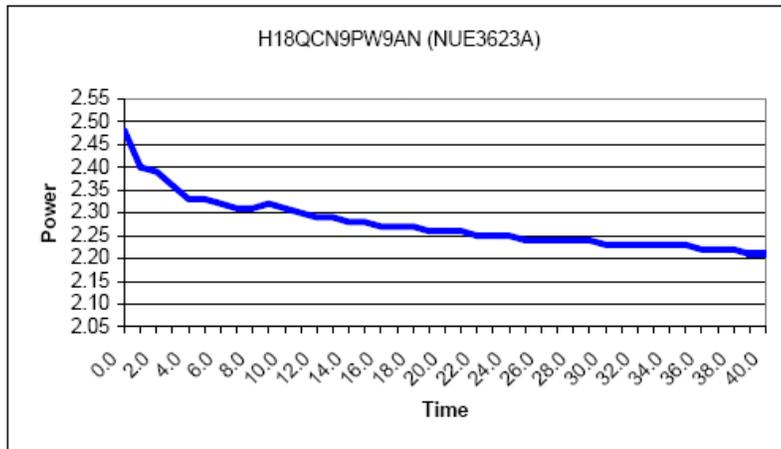
APPENDIX F
DUT Supplementary Data (Power slump)

Model # H18QCN9PW9AN (NUE3623A)
Serial # 654CJD0000

Battery	PMMN4083A	Transmit Mode	CW
Frequency	380 MHz	Audio Accessory	None
Date	3/26/2008		

TX TIME **Measured Power**
 (Minutes) (Watts)

0.0	2.48
1.0	2.40
2.0	2.39
3.0	2.36
4.0	2.33
5.0	2.33
6.0	2.32
7.0	2.31
8.0	2.31
9.0	2.32
10.0	2.31
11.0	2.30
12.0	2.29
13.0	2.29
14.0	2.28
15.0	2.28
16.0	2.27
17.0	2.27
18.0	2.27
19.0	2.26
20.0	2.26
21.0	2.26
22.0	2.25
23.0	2.25
24.0	2.25
25.0	2.24
26.0	2.24
27.0	2.24
28.0	2.24
29.0	2.24
30.0	2.23
31.0	2.23
32.0	2.23
33.0	2.23
34.0	2.23
35.0	2.23
36.0	2.22
37.0	2.22
38.0	2.22
39.0	2.21
40.0	2.21



Appendix G DUT Test Position Photos

Figure 1: Highest SAR Test Position (Body)
DUT back towards phantom with antenna separated 2.5cm.
Worst case audio accessory attached, and antenna extended

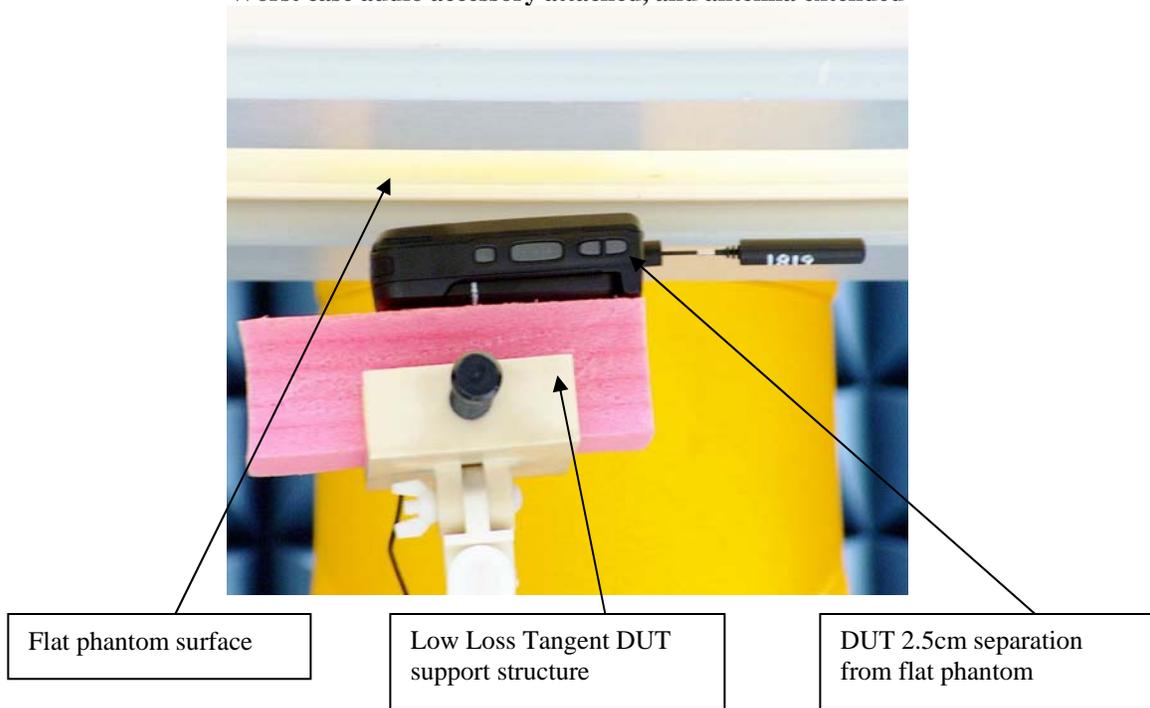
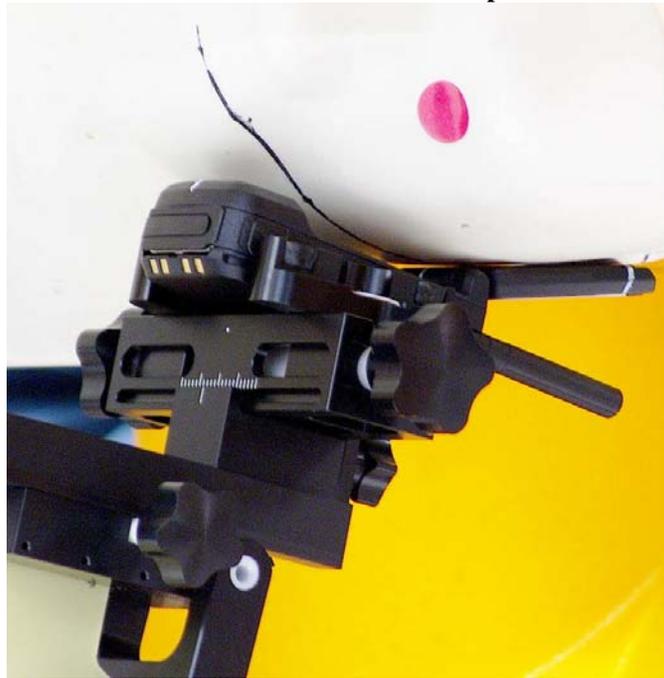


Figure 2: Highest SAR Test Position (face)
DUT flip closed w/ front side separated 2.5cm from the phantom



**Figure 3: Highest SAR Test Position (Head)
DUT at the left ear in cheek touch position.**



Appendix H

DUT and Body worn Accessory Photos

The purpose of this appendix is to illustrate the offered body-worn carry accessory(ies). The sample that was used in the following photos represents the product used to obtain the results presented herein.

Not applicable for this PCII filing. See Initial report.

Appendix I

DUT Antenna Separation Distances and Offered Accessory Test Status

The following table(s) summarizes the separation distances and test status provided by each of the applicable body-worn accessory(ies):

Not applicable for this PCII filing. See Initial report.