MOTOROLA

ACCREDITED
Certificate Number: 2518.01

# FCC ID: AZ489FT5853
# DECLARATION OF COMPLIANCE SAR ASSESSMENT part 1 of 3

**Networks & Enterprise**
**EME Test Laboratory**
**8000 West Sunrise Blvd**
**Fort Lauderdale, FL. 33322**

**Date of Report:** 8/15/06
**Report Revision:** Rev O
**Report ID:** i880_i885 060815 SR4122_4112

| | |
|---|---|
| **Responsible Engineer:** | Michael Sailsman (Sr. Staff EME Engineer) |
| **Date/s Tested:** | 7/11/06-8/10/06 |
| **Manufacturer/Location:** | Motorola – Plantation |
| **Sector/Group/Div.:** | iDEN Subscriber |
| **Date submitted for test:** | 6/23/06 |
| **DUT Description:** | i880 & i885; TDMA: 236:310 WiDEN (75%); 81:120, 2:6, 1:12, and 1:6; 64 QAM, 16 QAM, and QSPK Modulations; 0.6 W Pulse Avg. MOTOtalk (114:120 8FSK; 0.85 W nominal); GPS and Bluetooth capable |
| **Test TX mode(s):** | 1:3, 1:6, 114:120, 236:310, 81:120 |
| **Max. Power output:** | Mototalk - 0.891 W, iDEN/WiDEN - 0.640 W; Bluetooth – 2.5 mW |
| **Nominal Power:** | MOTOtalk - 0.85 W; iDEN/WiDEN - 0.60 W; Bluetooth – 1.0 mW |
| **Tx Frequency Bands:** | MOTOtalk - 902-928 MHz, iDEN/WiDEN – 806-825, 896-902 MHz |
| **Signaling type:** | TDMA: iDEN; WiDEN, MOTOtalk - (FHSS 8FSK) |
| **Model(s) Tested:** | i880-H94XAH6RR4AN/NWF0004A, i885-H94XAH6RR4AN/NWF1193A |
| **Model(s) Certified:** | i880-H94XAH6RR4AN/NWF0004A, i885-H94XAH6RR4AN/NWF1193A |
| **Serial Number(s):** | 364VGGGJW5, 364VGGGJY8 & 364VGGGJWM (i880); 364VGGGFX0 (i885) |
| Classification: | General Population/Uncontrolled |
| **Rule Part(s):** | 15, 90 |

**Approved Accessories:**

**Antenna(s):**

8571042L01(i880 - retractable ¼ wave antenna: 806-825MHz , -0.6dBd; 896-902MHz , -0.9dBd; 902-928MHz , -0.9dBd)
8516836H01 (i885 - retractable ¼ Wave antenna: 806-825MHz , -0.7dBd; 896-902MHz , -1.2dBd; 902-928MHz , -1.2dBd)

**Battery(ies):**

SNN5782B (i880 & i885 - BT60 High performance Li Ion), NTN2359AXXX (High performance battery door); SNN5759A (i880 – BT90 Maximum capacity Li Ion), NTN2360AXXX (max capacity battery door)

**Body worn accessory(ies):**

NNTN6785A (i880 - Swivel carry holster); NNTN4747A (i880 & i885 belt clip)

**Audio/Data cable accessory(ies):**

NNTN5211A(Surveillance earpiece); NNTN5004A(PTT headset); NNTN5005A(PTT headset); NNTN5006A(PTT headset); NNTN5330A(PTT headset); NNTN5774A(PTT stereo headset); NNTN5751A(Stereo mixing headset w/ PTT); NNTN5752A(Stereo mixing headset); NNTN6312A(3-wire surveillance earpiece); NNTN5405A(USB data cable w/ charging); NNTN5406A(RS232 data cable w/ charging); NTN2074A (Qwerty keyboard: NNTN5491A/NNTN5863A/NNTN5496A/NNTN5715A)

**Max. Calc. : 1-g Avg. SAR: 1.57 W/kg (Body); 10-g Avg. SAR: 1.13 W/kg (Body)**
**Max. Calc. : 1-g Avg. SAR: 0.77 W/kg (Face); 10-g Avg. SAR: 0.54 W/kg (Face)**
**Max. Calc. : 1-g Avg. SAR: 1.30 W/kg (Head); 10-g Avg. SAR: 0.87 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.**

**This reporting format is consistent with the test report 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
**Ken Enger NE EME Lab Senior Resource Manager, Laboratory Director,**

**Approval Date:** 8/16/06

**Certification Date:** 8/16/06

**Certification No.:** L1060817P/L1060818P

**Part 1 of 3**



**Appendices**

**Part 2 of 3**



**Part 3 of 3**



## Report REVISION HISTORY

| Date | Revision | Comments |
|---|---|---|
| 8/15/06 | O | Initial release |

## 1.0 Introduction and Overview

This report details the utilization, test setup, test equipment, and test results of the Specific Absorption Rate (SAR) measurements performed at the NE EME Test Lab for models H94XAH6RR4AN/NWF1193A (i885) and H94XAH6RR4AN/NWF0004A (i880) of FCC ID: AZ489FT5853. Both models differ only by external ID shape and color. The results herein reflect initial test results.

## 2.0 Referenced Standards and Guidelines

This product is designed to comply with the following national and international standards and guidelines.

- United States Federal Communications Commission, Code of Federal Regulations; Rule Part 47CFR § 2.1093 sub-part J:1999
- Federal Communications Commission, “Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields”, OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.
- IEEE 1528, 2003 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques"
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2003
- ANATEL, Brazil Regulatory Authority, Resolution No. 303 of July 2, 2002 "Regulation of the limitation of exposure to electrical, magnetic, and electromagnetic fields in the radio frequency range between 9KHz and 300 GHz." and “Attachment to resolution # 303 from July 2, 2002”

### 2.1 SAR Limits

| EXPOSURE LIMITS | SAR (W/kg) | |
|---|---|---|
| | (General Population / Uncontrolled Exposure Environment) | (Occupational / Controlled Exposure Environment) |
| Spatial Average - ANSI - (averaged over the whole body) | 0.08 | 0.4 |
| Spatial Peak - ANSI - (averaged over any 1-g of tissue) | 1.60 | 8.0 |
| Spatial Peak – ICNIRP/ANSI - (hands/wrists/feet/ankles averaged over 10-g) | 4.0 | 20.0 |
| Localized SAR - ICNIRP - (Head and Trunk 10-g) | 2.0 | 10.0 |

## 3.0 Description of Device Under Test (DUT)

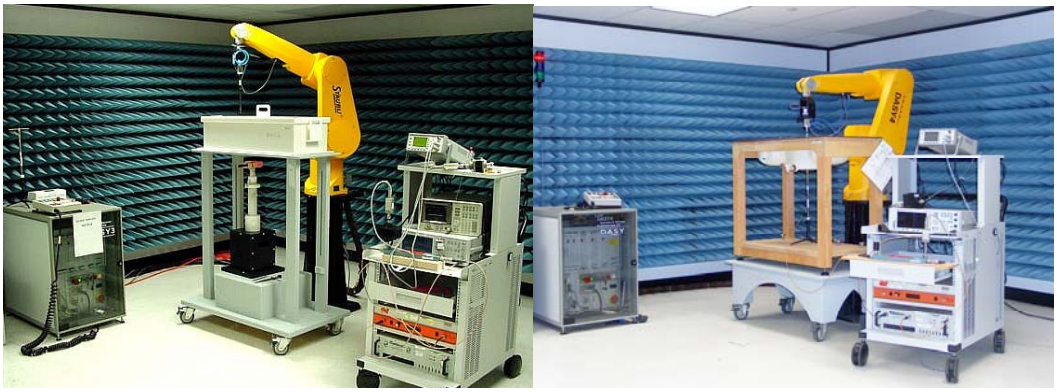
FCC ID: AZ489FT5853 employs time division multiplexing with duty cycles ranging from 16.667% to 76.1% for Voice (Dispatch or Interconnect), Circuit Data, Packet Data, and WiDEN emission modes. Possible modulations are QPSK, M16-QAM, or M64-QAM. All voice modes employ M16-QAM modulation, and are interleaved as 1:6 (for Dispatch) or 1:3 (maximum for Interconnect). Split 3:1 Interconnect is operated at a 16.667% duty cycle, but because there will be two pulses in each 90-msec frame, the overall interleave is 2:6. Interconnect modes are available in both the 800 and 900 MHz bands, while Dispatch is available only in the 800 MHz band.
Data transmissions employ QPSK, M16-QAM, and M64-QAM modulations, and have duty cycle ranging from 67.5% (Packet Data) to a maximum of 76.1% (for the 25 kHz WiDEN mode). WiDEN operation is also possible in 50, 75, and 100 kHz modes, but these will have lower maximum duty cycle. All data modes are available in the 800 and 900 MHz bands. Packet Data and WiDEN operation is possible with and without connection to an external data device (via a data cable).
This device also incorporates MOTOtalk, which is a Part 15 service, employing Frequency Hopping Spread Spectrum technology in the 900 MHz ISM band. MOTOtalk emissions have a duty cycle of 114:120 (95%), and uses 8FSK modulation. Only dispatch (i.e. PTT) operation is possible when operating in this mode.
The unit may be used at the abdomen in this mode (using an audio accessory) or held in front of the face. The low-audio earpiece mode has been locked out in software. No simultaneous operation is possible.
This device also incorporates a Class 2 Bluetooth device. This means that the nominal power should be 0 dBm with a maximum of +4dBm. Bluetooth is a short range wireless protocol used for communication between other Bluetooth devices. Users link to each other through an Ad-Hock network of pico-nets. The pico-net is the basic communication cell, which can be formed by a "master" and up to 7 "slaves".
This device will be marketed to and used by the general population. This device may be used while held against the head in voice mode, in front of the face in PTT mode, and against the body in phone, dispatch, MOTOtalk, Data, and WiDEN modes.
FCC ID: AZ489FT5853 is capable of operating in the 806-825 MHz and 896-902MHz bands. Packet data transmission is not available while transmitting in the 896-902 MHz band. MOTOtalk operates in the 902-928MHz band. WiDEN operates with the 806-825MHz and 896-902MHz bands. The rated conducted power is 0.60 watts pulsed averaged in the 806-825MHz and 896-902MHz bands; and 0.85 watts in the MOTOtalk band. The maximum conducted output power is 0.64 watts pulsed average and 0.891 watts respectively as defined by the upper limit of the production line final test station.

FCC ID: AZ489FT5853 is offered with the options and accessories listed on the coversheet of this report.

### Test Output Power

A table of the characteristic power slump versus time is provided in Appendix F. The presented power slumps reflect the performance of the worst case tested configurations per body location and demonstrates battery slump variations between frequency, mode and simultaneous transmission.

# 4.0 Description of Test System



## 4.1 Descriptions of Robotics/probes/Readout Electronics

The laboratory utilizes a Dosimetric Assessment System (DASY4™) SAR measurement system Version 4.7 build 44 manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. The test system consists of a Stäubli RX90L robot, DAE3V1, and ET3DV6 E-Field probes. Please reference the SPEAG user manual and application notes for detailed probe, robot, and SAR computational procedures. Section 5.0 presents relevant test equipment information. Appendices B and C present the applicable calibration certificates. The E-field probe first scans a coarse grid over a large area inside the phantom in order to locate the interpolated maximum SAR distribution. After the coarse scan measurement, the probe is automatically moved to a position at the interpolated maximum. The subsequent scan can directly use this position as reference for the cube evaluations.

## 4.2 Description of Phantom(s)

### 4.2.1 Flat Phantom

| Phantom Type | Phantom Material | Phantom Dimensions (cm) | Support structure opening dimensions (cm) | Support structure material | Loss Tangent (wood) |
|---|---|---|---|---|---|
| Flat | High Density Polyethylene (HDPE) | 80x30x20x0.2 | 68.58x20.32 | Wood | < 0.05 |

### 4.2.2 SAM Phantom

| Phantom Type | Material Parameters | Material Thickness (mm) | Support structure material | Loss Tangent (wood) |
|---|---|---|---|---|
| SAMTP1209<br>SAMTP1022 | 200MHz -3GHz; Er = <5,<br>Loss Tangent = <0.05 | 2mm +/- 0.2mm | Wood | < 0.05 |

## 4.3 Description of Equivalent tissues

### Type of Simulated Tissue

The simulated tissue used is compliant to that specified in FCC Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01) and IEEE 1528, 2003 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques".
The sugar based simulate tissue is produced by placing the correct measured amount of De-ionized water into a large container. Each of the dried ingredients are weighed and added to the water carefully to avoid clumping. If the solution has a high sugar concentration the water is pre-heated to aid in dissolving the ingredients. For Diacetin and Glycol based simulates, sugar and HEC ingredients are not needed. The solution is mixed thoroughly, covered, and allowed to sit overnight prior to use.

### Simulated Tissue Composition

| % of listed ingredients | 900MHz | |
|---|---|---|
| | Head | Body |
| Sugar | 56.5 | 44.9 |
| DGBE (Glycol) | NA | NA |
| Diacetin | NA | NA |
| De ionized -Water | 40.95 | 53.06 |
| Salt | 1.45 | 0.94 |
| HEC | 1.0 | 1 |
| Bact. | 0.1 | 0.1 |

Reference section 6.1 for target parameters

## 5.0 Additional Test Equipment

| Equipment Type | Model Number | Serial Number | Calibration Due Date |
|---|---|---|---|
| Power Meter (HP) | E4418B | US39251150 | 4/20/2007 |
| Power Meter (Agilent) | E4418B | GB40206553 | 4/21/2007 |
| Power Meter (HP) | E4418B | GB40206480 | 11/30/2006 |
| Power Sensor (HP) | 8482H | 1926A01906 | 12/12/2006 |
| Power Sensor (HP) | 8482B | 3318A07546 | 10/6/2006 |
| Power Sensor (HP) | 8482B | 3318A07392 | 5/17/2007 |
| Power Sensor (HP) | 8482B | 3318A07393 | 3/27/2007 |
| Signal Generator (HP) | 8648C | 3623A02587 | 2/8/2007 |
| Signal Generator (HP) | 8656B | 3334U14050 | 9/29/2006 |
| AMP (Amplifier Research) | 10W1000 | 5924 | CNR |
| AMP (ComTech PST) | AR88258-10 | M3Y6A00-1007 | CNR |
| Aeroflex/Weinschel 6-66 Db Variable Attenuator | 940-60-33 | A104873 | 3/27/2007 |
| Bi-Directional Coupler (NARDA) | 3020A | 40295 | 6/6/08 |
| **Tissue Station** | | | |
| Agilent PNA-L Network Analyzer | N5230A | MY45001092 | 5/22/2007 |
| Dielectric Probe Kit (HP) | 85070C | US99360076 | CNR |
| **Dipole** | | | |
| Speag Dipole | D900V2 | 85 | 8/19/2006 |
| Speag Dipole | D900V2 | 84 | 4/21/2008 |

## 6.0 SAR Measurement System Verification

The SAR measurements were conducted with probe model/serial number ET3DV6/ SN1545 & 1384 . The system performance check was conducted daily and within 24 hours prior to testing. DASY output files of the probe/dipole calibration certificates and system performance test results are included in appendices B, C, D respectively. The table below summarizes the system performance check results normalized to 1W.
Dipole validation scans at the head from SPEAG are provided in APPENDIX D. The NE EME lab validated the dipole to the applicable IEEE 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. The results of the NE EME system performance validation are provided herein.

### 6.1 Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements is measured daily and within 24 hours prior to actual SAR testing to verify that the tissue is within 5% of target parameters at the center of the transmit band. This measurement is done using the applicable equipment indicated in section 5.0.

**Actual versus Target tissue parameters (7/11/06-8/10/06)**

| FCC Body | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Di-electric Constant Target | Di-electric Constant Meas. (Range) | Conductivity Target S/m | Conductivity Meas. (Range) S/m |
| 900 | 55.0 | 52.6-53.9 | 1.05 | 1.04-1.07 |
| 915 | 55.0 | 52.5-53.7 | 1.06 | 1.06-1.08 |
| 815.5 | 55.3 | 53.5-54.8 | 0.97 | 0.96-0.98 |

| IEEE Head | | | | |
|---|---|---|---|---|
| Frequency (MHz) | Di-electric Constant Target | Di-electric Constant Meas. (Range) | Conductivity Target S/m | Conductivity Meas. (Range) S/m |
| 900 | 41.5 | 40.8-42.4 | 0.97 | 1.00-1.01 |
| 915 | 41.5 | 40.6-42.6 | 0.98 | 1.02-1.02 |
| 815.5 | 41.6 | 41.8-43.6 | 0.90 | 0.93-0.93 |

### 6.2 System Check Test Results (7/11/06 – 8/10/06)

| Probe Serial # | Tissue Type | Probe Cal Date | Dipole Kit / Serial # | System Perf. Result when normalized to 1W (mW/g) | Reference S.A.R @ 1W (mW/g) | Test Date(s) |
|---|---|---|---|---|---|---|
| 1545 | IEEE Head | 10/25/05 | SPEAG D900V2 /085 | 12.555 +/- 0.165 | 12.23 +/- 10% | 7/11/06-7/15/06 (5 test days) |
| 1545 | FCC Body | 10/25/05 | SPEAG D900V2 /085 | 12.325 +/- 0.255 | 12.13 +/- 10% | 7/16/06-7/18/06 (3 test days) |
| 1545 | IEEE Head | 10/25/05 | SPEAG D900V2 /084 | 11.975 +/- 0.475 | 11.35 +/- 10% | 7/19/06-8/10/06 (12 test days) |
| 1545 | FCC Body | 10/25/05 | SPEAG D900V2 /084 | 12.035 +/- 0.215 | 11.52 +/- 10% | 7/26/06 & 8/2/06 |

Note: See APPENDIX D for an explanation of the reference SAR targets stated above.
(System performance results reflects the median performance +/- ½ of the test date(s) performance ranges)

The DASY4™ system is operated per the instructions in the DASY4™ Users Manual. The complete manual is available directly from SPEAG™. All measurement equipment used to assess EME SAR compliance was calibrated according to 17025 A2LA guidelines.

## 7.0 DUT Test Strategy and Methodology

### 7.1 DUT Configuration(s)

The DUT is a portable device with iDEN, WiDEN, and MOTOtalk (FHSS 8FSK) transmission signaling operational at the applicable body, head, and face locations using the relevant offered accessories. The device is placed in the test positions presented in Appendix G. Note that measurements were performed with the DUT's backlight turned off for the duration of each test.

## Test Plan

All options and accessories listed on the cover page of this report were considered in order to develop the SAR test plan for this product. SAR measurements were performed using a flat phantom and a SAM phantom with the applicable simulated tissue to assess performance at the body, head and face respectively using the relevant transmission modes.
Note that a coarse-to-cube approximation methodology was utilized to determine the worst-case SAR performance configuration for each applicable body location. The test configurations that produced the highest SAR results for each body position using the coarse-to-cube approximation methodology were assessed using the full DASY4™ coarse and 7x7x7 cube scans.

**Assessments at the Head (Phone mode 1:3)** **[Pages 12-14 of 69; Table 1]**

- Assessment in the 806-825MHz band of offered batteries using applicable test configurations at the left ear; antenna in and out. Worst case battery used for tilted position.
- Assessment at the 806-825MHz band edges using the worst case configuration from above; antenna in and out.
- Assessment in the 896-902MHz band of offered batteries using applicable test configurations at the left ear; antenna in and out. Worst case battery used for tilted position.
- Assessment at the 896-902MHz band edges using the worst case configuration from above; antenna in and out.
- Assessments at the right ear using the relevant worst case battery per band in touch and tilt position; antenna in and out. Band edge assessment performed using worst case tested position; antenna in and out.
- Assessment with Bluetooth on using the worst case configuration overall from above.

**Assessments at the Face (PTT mode 1:6)** **[Page 14 of 69; Table 2]**

- Assessment in the 806-825MHz band of the offered batteries with the flip closed and opened; antenna in and out.
- Assessment at the edges of the 806-825MHz band with the worst case configuration from above; antenna in and out.

**Assessments at the Face (MOTOtalk mode 114:120)** **[Page 15 of 69; Table 3]**

- Assessment in the 902-928MHz band using the offered batteries with the flip opened; antenna in and out. The worst case battery tested with the flip closed; antenna in and out.
- Assessment at the 902-928MHz band edge frequencies with worst case configuration from above; antenna in and out.
- Assessment with Bluetooth on using the worst case configuration from above.

**Assessments at the Body (WiDEN mode 236:310)** **[Pages 16-17 of 69; Tables 4]**

- Assessment in the 896-902MHz band of the offered batteries and the belt clip accessory; antenna in and out.
- Assessment of the 896-902MHz band of the worst case battery from above and the offered carry holster accessory; antenna in and out.
- Assessment in the 896-902MHz band using the worst case configuration from above with the offered data cable accessories; antenna in and out.
- Assessment at the 896-902MHz band edges using the worst case configuration from above; antenna in and out.
- Same sequence above followed for the 806-825MHz band.
- Assessment with Bluetooth on using the worst case configuration from above.

**Assessments at the Body (iDEN data mode 81:120)** **[Page 18 of 69; Table 5]**

- Assessment across both the 806-825MHz and 896-902MHz bands using the worse case battery and body worn accessories from body assessments above; antenna in and out.
- Assessment with Bluetooth on using the worst case configuration from above.

**Assessments at the Body (iDEN MOTOtalk mode 114:120)** **[Pages 19-20 of 69; Table 6]**

- Assessment in the 902-928MHz band with each offered audio accessories using the offered batteries and the belt clip; antenna in and out. The offered carry holster was tested with the worst case configuration from above.
- Assessment in the 902-928MHz band of the offered audio accessories with the worst case configuration from above; antenna in and out.
- Assessment of the 902-928MHz band edges using the worst configuration from above; antenna in and out.
- Assessment with Bluetooth on using the worst case configuration from above.

**Assessments at the Body (iDEN phone mode 1:3)** **[Page 20 of 69; Table 7]**

- Assessment across the 806-825MHz band using the worst case body worn and battery from WiDEN 800MHz and worst case audio from MotoTalk above; antenna in and out.
- Assessment across the 896-902MHz band using the worst case body worn and battery from WiDEN 900MHz and worst case audio from MotoTalk above; antenna in and out.
- Assessment with Bluetooth on using the worst case configuration from above.

**Assessments at the Body 2.5cm (WiDEN mode 236:310)** **[Page 21 of 69; Table 8]**

- Assessment using the worst case test configuration overall at the body from above with the back and front housing of the DUT separated 2.5cm from the phantom.
- Assessment with Bluetooth on using the worst case configuration from above.

**Shortened scan assessment at the Body** **[APPENDIX E Part 2 of 2]**

- A "shortened" scan was performed using the worst case tested battery. Note that the shortened scan is obtained by first running a coarse scan to find the peak area and then, using a newly charged battery, a cube scan only was performed. The shortened scan represents the cube scan performance results.

## 7.2 Device Positioning Procedures

Reference Appendix G for photos of the DUT tested positions.

### 7.2.1 Body

The DUT was positioned in normal use configuration with the offered body worn accessory against the phantom and.
The DUT was positioned with its' front and back sides separated 2.5cm from the phantom.

### 7.2.2 Head

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

### 7.2.3 Face

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

## 8.0 Environmental Test Conditions

The EME Laboratory ambient environment is well controlled resulting in very stable simulated tissue temperature and therefore stable dielectric properties. Simulated tissue temperature is measured prior to each scan to insure it is within +/ - 2$^{o}$C of the temperature at which the dielectric properties were determined. The liquid depth within the phantom used for measurements was 15cm +/- 0.5cm. Additional precautions are routinely taken to ensure the stability of the simulated tissue such as covering the phantoms when scans are not actively in process in order to minimize evaporation. The lab environment is continuously monitored. The table below presents the range and average environmental conditions during the SAR tests reported herein:

| | Target | Measured |
|---|---|---|
| **Ambient Temperature** | 20 - 25 ˚C | Range: 21.4-23.2˚C<br>Avg. 22.3˚C |
| **Relative Humidity** | 30 - 70 % | Range: 51.0-64.0%<br>Avg. 56.6% |
| **Tissue Temperature** | NA | Range: 20.4-21.5˚C<br>Avg. 20.97 ˚C |

The EME Lab RF environment uses a Spectrum Analyzer to monitor for extraneous large signal RF contaminants that could possibly affect the test results. If such unwanted signals are discovered the S.A.R scans are repeated.

## 9.0 Test Results Summary

All SAR results obtained by the tests described in Section 7.1 are listed below. As noted in section 7.1, a coarse-to-cube approximation methodology, was utilized to ascertain the worst-case test configuration for each body location. The worst case test configurations observed for each body location and band (in bold with *) were then assessed using the full DASY4™ coarse and 7x7x7 cube methodology, and they are presented in the worst case configuration table below. The associated SAR plots are provided in APPENDIX E. Appendix E also presents shortened SAR cube scans to assess the validity of the calculated results presented herein. Note: The results of the shortened cube scans presented in Appendix E demonstrate that the scaling methodology used to determine the calculated SAR results presented herein are valid.

**Table1**

| Assessments at the Head (Phone mode 1:3) 806-825MHz & 896-902MHz bands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna Pos.** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Left ear – 800 band center frequency; antenna In/Out offered batteries** | | | | | | | | | | | | |
| JsT-Lear-060711-02/364VGGGJW5 | In | 813.5125 | SNN5782B/NT N2359AXXX | Touch | None | None | 0.651 | -0.008 | 1.040 | 0.685 | 1.04 | 0.69 |
| MeC-LEAR-060711-03/364VGGGJW5 | Out | 813.5125 | SNN5782B/NT N2359AXXX | Touch | None | None | 0.652 | -0.006 | 0.990 | 0.661 | 0.99 | 0.66 |
| MeC-LEAR-060711-04/364VGGGJW5 | In | 813.5125 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.653 | 0.029 | 1.060 | 0.696 | 1.06 | 0.70 |
| MeC-LEAR-060711-05/364VGGGJW5 | Out | 813.5125 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.654 | -0.012 | 0.976 | 0.652 | 0.98 | 0.65 |
| **Left ear – 800 band center frequency; antenna In/Out; Tilt position** | | | | | | | | | | | | |
| MeC-LEAR-060711-06/364VGGGJW5 | In | 813.5125 | SNN5759A/NT N2360AXXX | Tilt | None | None | 0.651 | 0.016 | 0.310 | 0.217 | 0.31 | 0.22 |
| MeC-LEAR-060711-07/364VGGGJW5 | Out | 813.5125 | SNN5759A/NT N2360AXXX | Tilt | None | None | 0.655 | -0.125 | 0.255 | 0.181 | 0.26 | 0.19 |
| **Left ear – 800 band edges; antenna In/Out; Worse case battery from test above** | | | | | | | | | | | | |
| MeC-LEAR-060711-08/364VGGGJW5 | In | 806.0125 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.650 | -0.029 | 0.938 | 0.619 | 0.94 | 0.62 |
| MeC-LEAR-060711-09/364VGGGJW5 | Out | 806.0125 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.650 | 0.007 | 0.942 | 0.629 | 0.94 | 0.63 |
| MeC-LEAR-060711-10/364VGGGJW5 | In | 824.9875 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.645 | 0.002 | 1.050 | 0.692 | 1.05 | 0.69 |
| MeC-LEAR-060711-11/364VGGGJW5 | Out | 824.9875 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.644 | 0.003 | 0.984 | 0.658 | 0.98 | 0.66 |

**Table 1 (continued)**

| Assessments at the Head (Phone mode 1:3) 806-825MHz & 896-902MHz bands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Left ear – 900 band center frequency; antenna In/Out; offered batteries** | | | | | | | | | | | | |
| MeC-LEAR-060711-12/364VGGGJW5 | In | 898.49375 | SNN5782B/NT N2359AXXX | touch | None | None | 0.657 | -0.115 | 0.972 | 0.615 | 1.00 | 0.63 |
| MeC-LEAR-060711-13/364VGGGJW5 | Out | 898.49375 | SNN5782B/NT N2359AXXX | touch | None | None | 0.661 | -0.082 | 1.190 | 0.766 | 1.21 | 0.78 |
| MeC-LEAR-060712-02/364VGGGJW5 | In | 898.49375 | SNN5759A/NT N2360AXXX | touch | None | None | 0.657 | 0.006 | 1.020 | 0.668 | 1.02 | 0.67 |
| MeC-LEAR-060712-03/364VGGGJW5 | Out | 898.49375 | SNN5759A/NT N2360AXXX | touch | None | None | 0.655 | -0.059 | 1.030 | 0.675 | 1.04 | 0.68 |
| **Left ear – 900 band center frequency; antenna In/Out; Tilt position.** | | | | | | | | | | | | |
| MeC-LEAR-060712-04/364VGGGJW5 | In | 898.49375 | SNN5782B/NT N2359AXXX | Tilt | None | None | 0.652 | -0.108 | 0.211 | 0.147 | 0.22 | 0.15 |
| MeC-LEAR-060712-05/364VGGGJW5 | Out | 898.49375 | SNN5782B/NT N2359AXXX | Tilt | None | None | 0.654 | -0.087 | 0.234 | 0.164 | 0.24 | 0.17 |
| **Left ear – 900 Band edges; antenna In/Out; Worse case battery from test above** | | | | | | | | | | | | |
| MeC-LEAR-060712-06/364VGGGJW5 | In | 896.01875 | SNN5782B/NT N2359AXXX | touch | None | None | 0.661 | -0.101 | 1.090 | 0.718 | 1.12 | 0.73 |
| MeC-LEAR-060712-07/364VGGGJW5 | Out | 896.01875 | SNN5782B/NT N2359AXXX | touch | None | None | 0.655 | -0.158 | 1.290 | 0.842 | 1.34 | 0.87 |
| MeC-LEAR-060712-08/364VGGGJW5 | In | 901.98125 | SNN5782B/NT N2359AXXX | touch | None | None | 0.655 | -0.184 | 0.931 | 0.608 | 0.97 | 0.63 |
| MeC-LEAR-060712-09/364VGGGJW5 | Out | 901.98125 | SNN5782B/NT N2359AXXX | touch | None | None | 0.652 | -0.015 | 1.190 | 0.778 | 1.19 | 0.78 |
| **Right ear – 800 band center frequency; antenna In/Out; head positions; WC batteries from 800MHz above** | | | | | | | | | | | | |
| ***MeC-REAR-060712-10/364VGGGJW5** | In | 813.5125 | SNN5759A/NT N2360AXXX | touch | None | None | 0.656 | -0.073 | 1.150 | 0.762 | **1.17** | 0.77 |
| MeC-REAR-060712-11/364VGGGJW5 | Out | 813.5125 | SNN5759A/NT N2360AXXX | touch | None | None | 0.655 | 0.006 | 1.100 | 0.729 | 1.10 | 0.73 |
| MeC-REAR-060712-12/364VGGGJW5 | In | 813.5125 | SNN5759A/NT N2360AXXX | Tilt | None | None | 0.651 | 0.042 | 0.371 | 0.264 | 0.37 | 0.26 |
| MeC-REAR-060712-13/364VGGGJW5 | Out | 813.5125 | SNN5759A/NT N2360AXXX | Tilt | None | None | 0.652 | 0.021 | 0.376 | 0.265 | 0.38 | 0.27 |
| **Right ear – 800 band edges; Antenna In/Out; WC configuration from above** | | | | | | | | | | | | |
| JsT-Rear-060713-02/364VGGGJW5 | In | 806.0125 | SNN5759A/NT N2360AXXX | touch | None | None | 0.644 | -0.363 | 0.905 | 0.603 | 0.98 | 0.66 |
| JsT-Rear-060713-03/364VGGGJW5 | Out | 806.0125 | SNN5759A/NT N2360AXXX | touch | None | None | 0.645 | 0.082 | 1.010 | 0.677 | 1.01 | 0.68 |
| JsT-Rear-060713-04/364VGGGJW5 | In | 824.9875 | SNN5759A/NT N2360AXXX | touch | None | None | 0.641 | -0.231 | 1.110 | 0.736 | 1.17 | 0.78 |
| JsT-Rear-060713-05/364VGGGJW5 | Out | 824.9875 | SNN5759A/NT N2360AXXX | touch | None | None | 0.642 | 0.057 | 1.050 | 0.711 | 1.05 | 0.71 |

**Table 1 (continued)**

| Assessments at the Head (Phone mode 1:3) 806-825MHz & 896-902MHz bands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Right ear – 900 band center frequency; antenna In/Out; head positions; WC batteries** | | | | | | | | | | | | |
| JsT-Rear-060713-06/364VGGGJW5 | In | 898.49375 | SNN5782B/NT N2359AXXX | touch | None | None | 0.657 | -0.312 | 1.080 | 0.715 | 1.16 | 0.77 |
| MeC-REAR-060713-07/364VGGGJW5 | Out | 898.49375 | SNN5782B/NT N2359AXXX | touch | None | None | 0.657 | 0.049 | 1.120 | 0.738 | 1.12 | 0.74 |
| MeC-REAR-060713-08/364VGGGJW5 | In | 898.49375 | SNN5782B/NT N2359AXXX | Tilt | None | None | 0.657 | -0.091 | 0.205 | 0.144 | 0.21 | 0.15 |
| MeC-REAR-060713-09/364VGGGJW5 | Out | 898.49375 | SNN5782B/NT N2359AXXX | Tilt | None | None | 0.660 | -0.113 | 0.221 | 0.156 | 0.23 | 0.16 |
| **Right ear – 900 Band edges; antenna In/Out; WC battery** | | | | | | | | | | | | |
| MeC-REAR-060713-10/364VGGGJW5 | In | 896.01875 | SNN5782B/NT N2359AXXX | touch | None | None | 0.657 | -0.094 | 1.010 | 0.668 | 1.03 | 0.68 |
| MeC-REAR-060713-11/364VGGGJW5 | Out | 896.01875 | SNN5782B/NT N2359AXXX | touch | None | None | 0.655 | -0.236 | 1.240 | 0.819 | 1.31 | 0.86 |
| MeC-REAR-060713-12/364VGGGJW5 | In | 901.98125 | SNN5782B/NT N2359AXXX | touch | None | None | 0.660 | -0.153 | 1.100 | 0.726 | 1.14 | 0.75 |
| MeC-REAR-060713-13/364VGGGJW5 | Out | 901.98125 | SNN5782B/NT N2359AXXX | touch | None | None | 0.659 | 0.159 | 1.360 | 0.902 | 1.36 | 0.90 |
| ***MeC-Rear-060726-08/364VGGGJY8** | Out | 901.98125 | SNN5782B/NT N2359AXXX | touch | None | None | 0.653 | -0.295 | 1.280 | 0.856 | **1.37** | 0.92 |
| **Simultaneous Bluetooth Tx on w/ WC configuration at the head; Phone mode** | | | | | | | | | | | | |
| MeC-REAR-060713-14/364VGGGJW5 | Out | 901.98125 BT On | SNN5782B/NT N2359AXXX | touch | None | None | 0.659 | -0.075 | 1.170 | 0.779 | 1.19 | 0.79 |

**Table 2**

| Assessments at the Face (PTT mode 1:6) 806-825MHz band | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Antenna positions; WC battery; flip closed/opened** | | | | | | | | | | | | |
| MeC-FACE-060714-13/364VGGGJW5 | In | 813.5125 | SNN5782B/NT N2359AXXX | front 2.5cm | None/ flip closed | None | 0.652 | 0.006 | 0.124 | 0.088 | 0.06 | 0.04 |
| MeC-FACE-060713-18/364VGGGJW5 | Out | 813.5125 | SNN5782B/NT N2359AXXX | front 2.5cm | None/ flip closed | None | 0.654 | -0.100 | 0.165 | 0.118 | 0.08 | 0.06 |
| JsT-Face-060714-02/364VGGGJW5 | In | 813.5125 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.652 | -0.059 | 0.123 | 0.088 | 0.06 | 0.05 |
| ***JsT-Face-060714-03/364VGGGJW5** | Out | 813.5125 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.653 | -0.067 | 0.168 | 0.120 | **0.09** | 0.06 |
| JsT-Face-060714-04/364VGGGJW5 | In | 813.5125 | SNN5782B/NT N2359AXXX | front 2.5cm | None/ flip opened | None | 0.653 | -0.056 | 0.108 | 0.077 | 0.06 | 0.04 |
| JsT-Face-060714-05/364VGGGJW5 | Out | 813.5125 | SNN5782B/NT N2359AXXX | front 2.5cm | None/ flip opened | None | 0.652 | -0.052 | 0.100 | 0.072 | 0.05 | 0.04 |
| **Band edges w/ WC configuration at face** | | | | | | | | | | | | |
| MeC-FACE-060714-14/364VGGGJW5 | In | 806.0125 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.645 | 0.025 | 0.109 | 0.078 | 0.05 | 0.04 |
| MeC-FACE-060714-15/364VGGGJW5 | Out | 806.0125 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.647 | 0.038 | 0.163 | 0.117 | 0.08 | 0.06 |
| MeC-FACE-060714-16/364VGGGJW5 | In | 824.9875 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.644 | -0.052 | 0.127 | 0.091 | 0.06 | 0.05 |
| MeC-FACE-060714-17/364VGGGJW5 | Out | 824.9875 | SNN5759A/NT N2360AXXX | front 2.5cm | None/ flip closed | None | 0.644 | -0.086 | 0.164 | 0.115 | 0.08 | 0.06 |

**Table 3**

| Assessments at the Face (MOTOtalk mode 114:120) 902-928MHz band | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Center frequency; offered batteries; flip open; Antenna In/out; WC battery w/ flip closed** | | | | | | | | | | | | |
| JsT-Face-060714-10/364VGGGJW5 | In | 915.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip open | None | 0.874 | -0.037 | 0.474 | 0.336 | 0.24 | 0.17 |
| JsT-Face-060714-11/364VGGGJW5 | Out | 915.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip open | None | 0.873 | -0.019 | 0.499 | 0.354 | 0.26 | 0.18 |
| JsT-Face-060714-12/364VGGGJW5 | In | 915.525 | SNN5759A/NT N2360AXXX | front 2.5cm | None/flip open | None | 0.873 | -0.025 | 0.465 | 0.329 | 0.24 | 0.17 |
| CM-Face-060715-02/364VGGGJW5 | Out | 915.525 | SNN5759A/NT N2360AXXX | front 2.5cm | None/flip open | None | 0.884 | -0.036 | 0.484 | 0.344 | 0.25 | 0.17 |
| CM-Face-060715-03/364VGGGJW5 | In | 915.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.884 | -0.022 | 1.190 | 0.841 | 0.60 | 0.43 |
| CM-Face-060715-04/364VGGGJW5 | Out | 915.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.885 | -0.009 | 0.932 | 0.664 | 0.47 | 0.33 |
| **Band edges; WC configuration above** | | | | | | | | | | | | |
| CM-Face-060715-05/364VGGGJW5 | In | 902.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.908 | -0.038 | 1.560 | 1.110 | 0.79 | 0.56 |
| ***MeC-Face-060726-10/364VGGGJY8** | In | 902.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.915 | -0.075 | 1.610 | 1.140 | **0.82** | 0.58 |
| CM-Face-060715-06/364VGGGJW5 | Out | 902.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.905 | 0.005 | 0.983 | 0.698 | 0.49 | 0.35 |
| CM-Face-060715-07/364VGGGJW5 | In | 927.475 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.873 | 0.013 | 1.060 | 0.751 | 0.54 | 0.38 |
| CM-Face-060715-08/364VGGGJW5 | Out | 927.475 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.879 | -0.021 | 1.110 | 0.785 | 0.57 | 0.40 |
| **Simultaneous Bluetooth Tx on w/ WC configuration from the face; MotoTalk mode** | | | | | | | | | | | | |
| CM-Face-060715-09/364VGGGJW5 | In | 902.525 BT ON | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.910 | -0.018 | 1.550 | 1.100 | 0.78 | 0.55 |

**Table 4**

| Assessment at the body (WiDEN mode 236:310) 896-902MHz & 806-825MHzbands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **900 band center frequency; Antenna In/out; offered batteries and belt clip** | | | | | | | | | | | | |
| MeC-AB-060715-16/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | None | 0.639 | -0.233 | 1.070 | 0.746 | 1.13 | 0.79 |
| MeC-AB-060715-17/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | None | 0.640 | -0.247 | 1.170 | 0.813 | 1.24 | 0.86 |
| MeC-AB-060715-18/364VGGGJW5 | In | 899.66875 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | None | 0.636 | -0.149 | 0.965 | 0.671 | 1.00 | 0.70 |
| MeC-AB-060715-19/364VGGGJW5 | Out | 899.66875 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | None | 0.635 | -0.169 | 1.120 | 0.781 | 1.17 | 0.82 |
| **900 band center frequency; Antenna In/out; WC battery and offered holster** | | | | | | | | | | | | |
| MeC-AB-060715-20/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.633 | -0.364 | 1.230 | 0.860 | 1.35 | 0.95 |
| MeC-AB-060715-21/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.633 | -0.329 | 1.280 | 0.892 | 1.40 | 0.97 |
| **900 band center frequency; Antenna In/out; WC carry accessory; offered data cables** | | | | | | | | | | | | |
| MeC-AB-060715-22/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5405A | 0.634 | -0.219 | 0.963 | 0.664 | 1.02 | 0.70 |
| MeC-AB-060715-23/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5405A | 0.633 | -0.372 | 0.869 | 0.604 | 0.96 | 0.67 |
| MeC-AB-060715-24/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5406A | 0.632 | -0.322 | 0.916 | 0.634 | 1.00 | 0.69 |
| MeC-AB-060715-25/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5406A | 0.633 | -0.409 | 0.858 | 0.597 | 0.95 | 0.66 |
| MeC-AB-060715-26/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5491A/ NNTN5863A | 0.633 | -0.237 | 1.230 | 0.844 | 1.31 | 0.90 |
| MeC-AB-060715-27/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5491A/ NNTN5863A | 0.634 | -0.229 | 1.260 | 0.883 | 1.34 | 0.94 |
| **900 band edges; WC configuration** | | | | | | | | | | | | |
| MeC-AB-060715-28/364VGGGJW5 | In | 896.01875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.637 | -0.186 | 1.250 | 0.869 | 1.31 | 0.91 |
| MeC-AB-060715-29/364VGGGJW5 | Out | 896.01875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.636 | -0.258 | 1.250 | 0.871 | 1.33 | 0.93 |
| MeC-AB-060715-30/364VGGGJW5 | In | 901.98125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.638 | -0.172 | 1.150 | 0.801 | 1.20 | 0.84 |
| MeC-AB-060715-31/364VGGGJW5 | Out | 901.98125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.636 | -0.215 | 1.270 | 0.884 | 1.34 | 0.93 |
| **800 band center frequency; Antenna In/out; WC battery and offered belt clip** | | | | | | | | | | | | |
| MeC-AB-060716-02/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | None | 0.632 | -0.181 | 0.849 | 0.591 | 0.90 | 0.62 |
| MeC-AB-060716-03/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | None | 0.633 | -0.328 | 0.828 | 0.587 | 0.90 | 0.64 |
| MeC-AB-060716-04/364VGGGJW5 | In | 813.5125 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | None | 0.631 | 0.047 | 0.649 | 0.455 | 0.66 | 0.46 |
| MeC-AB-060716-05/364VGGGJW5 | Out | 813.5125 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | None | 0.631 | -0.008 | 0.747 | 0.530 | 0.76 | 0.54 |

**Table 4 (continued)**

| Assessment at the body (WiDEN mode 236:310) 896-902MHz & 806-825MHzbands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **800 band center frequency; offered holster; WC battery; Antenna In/Out** | | | | | | | | | | | | |
| MeC-AB-060716-06/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.632 | -0.264 | 0.785 | 0.556 | 0.84 | 0.60 |
| MeC-AB-060716-07/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.631 | -0.219 | 0.914 | 0.640 | 0.97 | 0.68 |
| **800 band center frequency; Antenna In/out; WC carry accessory; offered data cables** | | | | | | | | | | | | |
| MeC-AB-060716-08/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5405A | 0.635 | -0.183 | 0.631 | 0.446 | 0.66 | 0.47 |
| MeC-AB-060716-09/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5405A | 0.633 | -0.227 | 0.897 | 0.625 | 0.96 | 0.67 |
| MeC-AB-060716-10/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5406A | 0.632 | -0.168 | 0.539 | 0.381 | 0.57 | 0.40 |
| MeC-AB-060716-11/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5406A | 0.633 | -0.312 | 0.813 | 0.570 | 0.88 | 0.62 |
| MeC-AB-060716-12/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5491A/ NNTN5863A | 0.635 | -0.199 | 0.589 | 0.406 | 0.62 | 0.43 |
| MeC-AB-060716-13/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5491A/ NNTN5863A | 0.634 | -0.216 | 0.840 | 0.577 | 0.89 | 0.61 |
| **800 band edges; WC configuration** | | | | | | | | | | | | |
| MeC-AB-060716-14/364VGGGJW5 | In | 806.0125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.626 | -0.172 | 0.765 | 0.536 | 0.81 | 0.57 |
| ***MeC-AB-060716-15/364VGGGJW5** | Out | 806.0125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.627 | -0.247 | 0.964 | 0.682 | **1.04** | 0.74 |
| MeC-AB-060716-16/364VGGGJW5 | In | 824.9875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.618 | 0.009 | 0.912 | 0.631 | 0.94 | 0.65 |
| MeC-AB-060716-17/364VGGGJW5 | Out | 824.9875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.620 | -0.042 | 0.998 | 0.704 | 1.04 | 0.73 |
| **Simultaneous Bluetooth Tx on w/ WC configuration at the body; WiDEN mode** | | | | | | | | | | | | |
| *JsT-Ab-060725-02/364VGGGJW5 | Out | 899.66875 BT ON | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.617 | -0.315 | 1.310 | 0.908 | 1.46 | 1.01 |
| ***JsT-Ab-060726-04/364VGGGJWM** | Out | 899.66875 BT ON | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.610 | -0.567 | 1.310 | 0.917 | **1.57** | 1.11 |

**Table 5**

| Assessment at the body (Data mode 81:120) 806-825MHz & 896-902MHz bands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **800Mhz band – across the band; WC configuration from WiDEN 800MHz assessment; Antenna In/Out** | | | | | | | | | | | | |
| CM-AB-060716-19/364VGGGJW5 | In | 806.0125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.644 | -0.082 | 0.728 | 0.510 | 0.74 | 0.52 |
| CM-AB-060716-20/364VGGGJW5 | Out | 806.0125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.645 | 0.018 | 0.961 | 0.676 | 0.96 | 0.68 |
| CM-AB-060716-21/364VGGGJW5 | In | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.651 | -0.006 | 0.737 | 0.520 | 0.74 | 0.52 |
| CM-AB-060716-22/364VGGGJW5 | Out | 813.5125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.652 | 0.035 | 0.943 | 0.660 | 0.94 | 0.66 |
| CM-AB-060716-23/364VGGGJW5 | In | 824.9875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.641 | -0.012 | 0.792 | 0.556 | 0.79 | 0.56 |
| CM-AB-060716-24/364VGGGJW5 | Out | 824.9875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.638 | 0.004 | 0.922 | 0.652 | 0.92 | 0.65 |
| **900Mhz band – across the band; WC configuration from WiDEN 800MHz assessment; Antenna In/Out** | | | | | | | | | | | | |
| CM-AB-060716-25/364VGGGJW5 | In | 896.01875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.663 | -0.265 | 1.360 | 0.933 | 1.45 | 0.99 |
| CM-AB-060716-26/364VGGGJW5 | Out | 896.01875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.666 | -0.342 | 1.310 | 0.915 | 1.42 | 0.99 |
| CM-AB-060716-27/364VGGGJW5 | In | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.660 | -0.253 | 1.250 | 0.869 | 1.32 | 0.92 |
| CM-AB-060716-28/364VGGGJW5 | Out | 899.66875 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.662 | -0.283 | 1.250 | 0.876 | 1.33 | 0.93 |
| CM-AB-060716-29/364VGGGJW5 | In | 901.98125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.664 | -0.164 | 1.260 | 0.878 | 1.31 | 0.91 |
| CM-AB-060716-30/364VGGGJW5 | Out | 901.98125 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.663 | -0.294 | 1.280 | 0.894 | 1.37 | 0.96 |
| **Simultaneous Bluetooth Tx on w/ WC configuration at the body; Data mode** | | | | | | | | | | | | |
| CM-AB-060716-31/364VGGGJW5 | In | 896.01875 BT ON | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | None | 0.660 | -0.201 | 1.270 | 0.891 | 1.33 | 0.93 |

**Table 6**

| Assessment at the body (MotoTalk mode 114:120) 902-928MHz band | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Center frequency; offered batteries; offered belt clip; Antenna In/out** | | | | | | | | | | | | |
| CM-AB-060716-32/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5211A | 0.894 | -0.197 | 2.23 | 1.55 | 1.17 | 0.81 |
| CM-AB-060716-33/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5211A | 0.898 | 0.041 | 2.15 | 1.50 | 1.08 | 0.75 |
| MeC-AB-060717-02/364VGGGJW5 | In | 915.525 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | NNTN5211A | 0.885 | -0.205 | 1.84 | 1.29 | 0.97 | 0.68 |
| MeC-AB-060717-03/364VGGGJW5 | Out | 915.525 | SNN5759A/NTN2360AXXX | Against phantom | NNTN4747A | NNTN5211A | 0.883 | 0.062 | 1.74 | 1.21 | 0.88 | 0.61 |
| **Center frequency; WC battery; offered holster; Antenna In/out** | | | | | | | | | | | | |
| MeC-AB-060717-04/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5211A | 0.883 | -0.173 | 2.13 | 1.48 | 1.12 | 0.78 |
| MeC-AB-060717-05/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN6785A | NNTN5211A | 0.885 | -0.012 | 2.19 | 1.52 | 1.11 | 0.77 |
| **Center frequency; WC battery and holster; Antenna In/out; offered audio accessories** | | | | | | | | | | | | |
| MeC-AB-060717-06/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5004A | 0.884 | -0.220 | 2.100 | 1.460 | 1.11 | 0.77 |
| MeC-AB-060717-07/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5004A | 0.884 | -0.024 | 2.090 | 1.450 | 1.06 | 0.73 |
| MeC-AB-060717-08/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5005A | 0.884 | -0.034 | 2.020 | 1.400 | 1.03 | 0.71 |
| MeC-AB-060717-09/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5005A | 0.883 | -0.012 | 2.100 | 1.460 | 1.06 | 0.74 |
| MeC-AB-060717-10/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5006A | 0.884 | 0.002 | 1.960 | 1.360 | 0.99 | 0.69 |
| MeC-AB-060717-11/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5006A | 0.885 | -0.003 | 2.000 | 1.390 | 1.01 | 0.70 |
| JsT-Ab-060718-02/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5330A | 0.882 | -0.192 | 2.30 | 1.60 | 1.21 | 0.84 |
| JsT-Ab-060718-03/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5330A | 0.879 | 0.036 | 2.45 | 1.71 | 1.24 | 0.87 |
| JsT-Ab-060718-04/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5774A | 0.879 | 0.011 | 2.34 | 1.62 | 1.19 | 0.82 |
| JsT-Ab-060718-05/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5774A | 0.880 | -0.000 | 2.53 | 1.76 | 1.28 | 0.89 |
| JsT-Ab-060718-06/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5751A | 0.879 | -0.017 | 2.32 | 1.61 | 1.18 | 0.82 |
| JsT-Ab-060718-07/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5751A | 0.878 | 0.034 | 2.40 | 1.67 | 1.22 | 0.85 |
| JsT-Ab-060718-08/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.880 | -0.034 | 2.36 | 1.63 | 1.20 | 0.83 |
| JsT-Ab-060718-09/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.882 | 0.010 | 2.56 | 1.78 | 1.29 | 0.90 |
| JsT-Ab-060718-10/364VGGGJW5 | In | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN6312A | 0.880 | -0.023 | 2.32 | 1.60 | 1.18 | 0.81 |
| JsT-Ab-060718-11/364VGGGJW5 | Out | 915.525 | SNN5782B/NTN2359AXXX | Against phantom | NNTN4747A | NNTN6312A | 0.882 | 0.041 | 2.44 | 1.70 | 1.23 | 0.86 |

**Table 6 (continued)**

| Assessment at the body (MotoTalk mode 114:120) 902-928MHz band | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Band edges; WC configuration from MotoTalk; Antenna In/out** | | | | | | | | | | | | |
| ***JsT-Ab-060718-12/364VGGGJW5** | In | 902.525 | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.909 | -0.019 | 2.71 | 1.88 | **1.36** | 0.94 |
| JsT-Ab-060718-13/364VGGGJW5 | Out | 902.525 | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.907 | 0.018 | 2.63 | 1.84 | 1.32 | 0.92 |
| JsT-Ab-060718-14/364VGGGJW5 | In | 927.475 | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.875 | -0.009 | 1.92 | 1.32 | 0.98 | 0.67 |
| MeC-AB-060718-15/364VGGGJW5 | Out | 927.475 | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.874 | 0.036 | 2.09 | 1.44 | 1.07 | 0.73 |
| **Simultaneous Bluetooth Tx on w/ WC configuration at the body; MotoTalk mode** | | | | | | | | | | | | |
| MeC-AB-060718-16/364VGGGJW5 | In | 902.525 BT ON | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.915 | -0.011 | 2.610 | 1.810 | 1.31 | 0.91 |

**Table 7**

| Assessment at the body (Phone mode 1:3) 806-825MHz & 896-902MHz bands | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Across the 800 band w/ WC body worn and battery from WiDEN 800MHz and WC audio accessory from MotoTalk; Antenna In/out** | | | | | | | | | | | | |
| MeC-AB-060718-17/364VGGGJW5 | In | 813.5125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.660 | -0.172 | 0.397 | 0.279 | 0.41 | 0.29 |
| MeC-AB-060718-18/364VGGGJW5 | Out | 813.5125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.659 | -0.021 | 0.464 | 0.326 | 0.47 | 0.33 |
| MeC-AB-060718-19/364VGGGJW5 | In | 806.0125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.650 | -0.020 | 0.349 | 0.246 | 0.35 | 0.25 |
| MeC-AB-060718-20/364VGGGJW5 | Out | 806.0125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.651 | 0.027 | 0.460 | 0.323 | 0.46 | 0.32 |
| MeC-AB-060718-21/364VGGGJW5 | In | 824.9875 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.653 | 0.002 | 0.395 | 0.277 | 0.40 | 0.28 |
| MeC-AB-060718-22/364VGGGJW5 | Out | 824.9875 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.654 | 0.058 | 0.487 | 0.341 | 0.49 | 0.34 |
| **Across the 900 band w/ WC body worn and battery from WiDEN 800MHz and WC audio accessory from MotoTalk; Antenna In/out** | | | | | | | | | | | | |
| JsT-Ab-060719-02/364VGGGJW5 | In | 898.49375 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.661 | -0.122 | 0.655 | 0.453 | 0.67 | 0.47 |
| JsT-Ab-060719-03/364VGGGJW5 | Out | 898.49375 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.660 | -0.080 | 0.631 | 0.439 | 0.64 | 0.45 |
| JsT-Ab-060719-04/364VGGGJW5 | In | 896.01875 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.663 | -0.065 | 0.643 | 0.447 | 0.65 | 0.45 |
| JsT-Ab-060719-05/364VGGGJW5 | Out | 896.01875 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.663 | -0.138 | 0.655 | 0.455 | 0.68 | 0.47 |
| JsT-Ab-060719-06/364VGGGJW5 | In | 901.98125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.662 | -0.129 | 0.586 | 0.410 | 0.60 | 0.42 |
| JsT-Ab-060719-07/364VGGGJW5 | Out | 901.98125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.662 | -0.057 | 0.607 | 0.422 | 0.61 | 0.43 |
| **Simultaneous Bluetooth Tx on w/ WC configuration at the body; Phone mode** | | | | | | | | | | | | |
| JsT-Ab-060720-04/364VGGGJW5 | Out | 896.01875 BT ON | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | NNTN5752A | 0.661 | -0.049 | 0.667 | 0.463 | 0.67 | 0.47 |

**Table 8**

| 2.5cm separation at the body (WiDENmode 236:310) 896-902MHz band | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **WC frequency/battery/body worn/cable attachments overall; Antenna In/out** | | | | | | | | | | | | |
| JsT-Ab-060725-03/364VGGGJW5 | In | 899.66875 BT ON | SNN5782B/NT N2359AXXX | Back-radio @ 2.5cm | None, | None | 0.618 | -0.181 | 1.06 | 0.737 | 1.14 | 0.80 |
| JsT-Ab-060725-04/364VGGGJW5 | Out | 899.66875 BT ON | SNN5782B/NT N2359AXXX | Back-radio @ 2.5cm | None | None | 0.617 | -0.340 | 1.15 | 0.800 | 1.29 | 0.90 |
| JsT-Ab-060725-05/364VGGGJW5 | In | 899.66875 BT ON | SNN5782B/NT N2359AXXX | Front radio @ 2.5cm | None, | None | 0.618 | -0.252 | 0.672 | 0.471 | 0.74 | 0.52 |
| JsT-Ab-060725-06/364VGGGJW5 | Out | 899.66875 BT ON | SNN5782B/NT N2359AXXX | Front radio @ 2.5cm | None | None | 0.618 | -0.321 | 0.713 | 0.502 | 0.80 | 0.56 |

**Table 9**

| *Worst case configuration per body location and mode from above –using the DASY 4 full coarse and 7x7x7 cube scan measurements. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Run Number/ SN** | **Antenna** | **Freq. (MHz)** | **Battery** | **Test position** | **Carry Case** | **Additional attachments** | **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)** |
| **Right ear: 1:3 mode; 800/900 MHz bands** | | | | | | | | | | | | |
| JsT-Rear-060803-04/364VGGGJW5 | In | 813.5125 | SNN5759A/NT N2360AXXX | Touch | None | None | 0.656 | -0.231 | 0.977 | 0.666 | 1.03 | 0.70 |
| JsT-Rear-060731-06/364VGGGJY8 | Out | 901.9812 5 | SNN5782B/NT N2359AXXX | Touch | None | None | 0.654 | -0.392 | 1.170 | 0.772 | 1.28 | 0.84 |
| MeC-Rear-060801-10/364GGGFX0 | In | 824.9875 | SNN5782B/NT N2358AXXX | Touch | None | None | 0.661 | -0.017 | 1.290 | 0.849 | 1.30 | 0.85 |
| **Face: MotoTalk 114:120 mode - 900MHz band; 1:6 phone mode - 800MHz band** | | | | | | | | | | | | |
| MeC-Face-060730-16/364VGGGJY8 | In | 902.525 | SNN5782B/NT N2359AXXX | front 2.5cm | None/flip closed | None | 0.921 | 0.039 | 1.530 | 1.080 | 0.77 | 0.54 |
| CM-Face-060715-12/364VGGGJW5 | Out | 813.5125 | SNN5759A/NT N2360AXXX | front 2.5cm | None/flip closed | None | 0.655 | -0.152 | 0.150 | 0.109 | 0.080 | 0.060 |
| **Body WiDEN 236:310 mode 800/900 bands; MotoTalk mode; 900MHz band** | | | | | | | | | | | | |
| MeC-Ab-060730-02/364VGGGJW5 | Out | 806.0125 | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | None | 0.626 | -0.809 | 0.845 | 0.626 | 1.04 | 0.77 |
| ****MeC-Ab-060726-12/364VGGGJW5** | Out | 899.6687 5 **BT ON** | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | None | 0.618 | -1.150 | 1.110 | 0.816 | 1.50 | 1.10 |
| MeC-AB-060810-03/364VGGGJWM | Out | 899.6687 5 **BT ON** | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | None | 0.609 | -1.420 | 1.080 | 0.777 | **1.57** | 1.13 |
| MeC-AB-060720-10/364VGGGJW5 | In | 902.525 | SNN5782B/NT N2359AXXX | Against phantom | NNTN4747A | NNTN5752A | 0.911 | -0.130 | 2.580 | 1.84 | 1.33 | 0.95 |
| ****Shortened scan; cube only – to validate the max calculated results scaling methodology** | | | | | | | | | | | | |
| MeC-AB-060726-13/364VGGGJW5 | Out | 899.6687 5 **BT ON** | SNN5782B/NT N2359AXXX | Against phantom | NNTN6785A | None | 0.620 | -0.549 | 1.24 | 0.894 | 1.45 | 1.05 |

## 9.1 Highest SAR results calculation methodology

The calculated maximum 1-gram and 10-gram averaged SAR results reported herein for the full DASY ™ coarse and 7x7x7 cube measurements are determined by scaling the measured SAR to account for power leveling variations and power slump. For this device the Maximum Calculated 1-gram and 10-gram averaged peak SAR is calculated using the following formula:

Max. Calc. 1-g/10-g Avg. SAR = ((SAR meas. / (10^(Pdrift/10)))*(Pmax/Pint))* DC%
$P_{max}$ = Maximum Power (W)
$P_{int}$ = Initial Power (W)
Pdrift = DASY drift results (dB) - (for conservative results positive drifts are not accounted for)
$SAR_{meas}$. = Measured 1 gram averaged peak SAR (mW/g)
DC % = Transmission mode duty cycle in % where applicable
50% duty cycle is applied for PTT operation.

## 10.0 Conclusion

The highest Operational Maximum Calculated 1-gram and 10-gram average SAR values found for FCC ID: AZ489FT5853 models H94XAH6RR4AN/NWF00004A (i880) and 4XAH6RR4AN/NWF1193 (i885).

**At the Body: 1-g Avg. = 1.57 W/kg; 10-g Avg. =1.13 W/kg**
**At the Face: 1-g Avg. = 0.77 W/kg; 10-g Avg. = 0.54 W/kg**
**At the Head: 1-g Avg. = 1.30 W/kg; 10-g Avg. = 0.87 W/kg**

These test results clearly demonstrate compliance with FCC General Population/Uncontrolled RF Exposure limits of **1.6W/kg** per the requirements of 47 CFR 2.1093(d).