

|                                                                                   |                                              |                                                    |                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>Sep 14-21, 2015     | Test Report Serial No.<br>091015OWD-1332-S         | Test Report Revision No.<br>Rev. 1.2              |  |
|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

## DECLARATION OF COMPLIANCE

### SAR RF EXPOSURE EVALUATION - FCC / IC New Filing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------|---------------------------------------|------------------|----------------------|-----------------------------|--|
| TEST LAB INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                            | Name                                                                                | Celltech Labs Inc.                                                  |                    |                                       |                  |                      |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Address                                                                             | 21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada                  |                    |                                       |                  |                      |                             |  |
| TEST LAB ACCREDITATION                                                                                                                                                                                                                                                                                                                                                                                                                                          | Type                                                                                | ISO / IEC 17025                                                     | Accreditation      | A2LA Test Lab Certificate No. 2470.01 |                  |                      |                             |  |
| APPLICANT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | Name                                                                                | HARRIS CORPORATION                                                  |                    |                                       |                  |                      |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Address                                                                             | 221 Jefferson Ridge Parkway, Lynchburg, VA 24501 U.S.A.             |                    |                                       |                  |                      |                             |  |
| STANDARDS APPLIED                                                                                                                                                                                                                                                                                                                                                                                                                                               | FCC                                                                                 | 47 CFR §2.1093                                                      |                    |                                       |                  | IC                   | Health Canada Safety Code 6 |  |
| PROCEDURES APPLIED                                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC                                                                                 | KDB 447498 D01v05r02, KDB 865664 D01v01r03                          |                    |                                       |                  | IC                   | RSS 102 Issue 5             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | KDB 865664 D02v01r01, KDB 643646 D01v01r01                          |                    |                                       |                  | IEEE                 | IEEE 1528 - 2013            |  |
| PROCEDURES APPLIED                                                                                                                                                                                                                                                                                                                                                                                                                                              | FCC                                                                                 | Licensed Non-Broadcast Transmitter Held to Face (TNF) - FCC Part 90 |                    |                                       |                  |                      |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IC                                                                                  | Land Mobile Radio Transmitter/Receiver (27.41-960 MHz) - RSS-119    |                    |                                       |                  |                      |                             |  |
| DEVICE DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                              | Portable Digital Push-To-Talk (PTT) Radio Transceiver                               |                                                                     |                    |                                       |                  |                      |                             |  |
| APPLICATION TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                | New Filing                                                                          |                                                                     |                    |                                       |                  |                      |                             |  |
| DATE(S) OF EVALUATION                                                                                                                                                                                                                                                                                                                                                                                                                                           | September 14-20, 2015                                                               |                                                                     |                    |                                       | SAMPLES RECEIVED | 10 Sep 2015          |                             |  |
| Device(s) Evaluated                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
| FCC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                          | IC Certification                                                                    | Device Model                                                        | Device Part Number | Device Type                           | Band             | Operating Frequency  | Rated Output Power          |  |
| OWDTR-0136E                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3636B-0136                                                                          | XG-15P SYS 440-512 GRY                                              | RU-144772-001      | System                                | UHF<br>BlueTooth | 440-512MHz<br>2.4Ghz | 5.0W (37dBm)<br>3dBm (2mW)  |  |
| Accessories Tested                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     | See Section 6.0                                                     |                    |                                       | Duty Cycle       | Exposure Category    |                             |  |
| Maximum SAR Level Evaluated<br>FCC                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     | Face                                                                | 3.25               | W/kg                                  | 1g               | 50% PTT              | Occupational / Controlled   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | Body                                                                | 6.62               |                                       |                  |                      |                             |  |
| Maximum SAR Level Evaluated<br>IC                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | Face                                                                | 3.40               |                                       |                  |                      |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | Body                                                                | 6.62               |                                       |                  |                      |                             |  |
| FCC / IC Spatial Peak SAR Limit                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | Face/Body                                                           | 8.0                |                                       |                  |                      |                             |  |
| Statement of Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
| Celltech Labs Inc. declares under its sole responsibility that this device has demonstrated compliance with the Specific Absorption Rate (SAR) RF exposure limits specified in FCC 47 CFR §2.1093 and Health Canada Safety Code 6 for the Occupational/Controlled Exposure environment. The device was tested in accordance with the measurement procedures specified in FCC KDB 865664 D01v01r03, Industry Canada RSS-102 Issue 5 and IEEE Standard 1528-2013. |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
| The results and statements contained in this report pertain only to the device(s) indicated.                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
| I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.                                                                                                                                                          |                                                                                     |                                                                     |                    |                                       |                  |                      |                             |  |
| Test Report Approved By:                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                     | Art Voss           | Senior Engineer                       | 21 Sep 2015      | Celltech Labs Inc    |                             |  |

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|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## 1.0 DOCUMENT CONTROL

| REVISION HISTORY |                                                                        |                |                    |
|------------------|------------------------------------------------------------------------|----------------|--------------------|
| REVISION NO.     | DESCRIPTION                                                            | IMPLEMENTED BY | RELEASE DATE       |
| 1.0              | 1st Release                                                            | Art Voss       | September 21, 2015 |
| 1.1              | 2nd Release<br>Corrected Accessory List                                | Art Voss       | September 23, 2015 |
| 1.2              | 3rd Release<br>Changed Reference to 14002-2015-01<br>Bluetooth Adapter | Art Voss       | September 30, 2015 |

| TEST REPORT SIGN-OFF     |                    |              |                    |
|--------------------------|--------------------|--------------|--------------------|
| DEVICE TESTED BY         | REPORT PREPARED BY | QA REVIEW BY | REPORT APPROVED BY |
| Art Voss/Daniel Guerrero | Art Voss           | Art Voss     | Art Voss           |

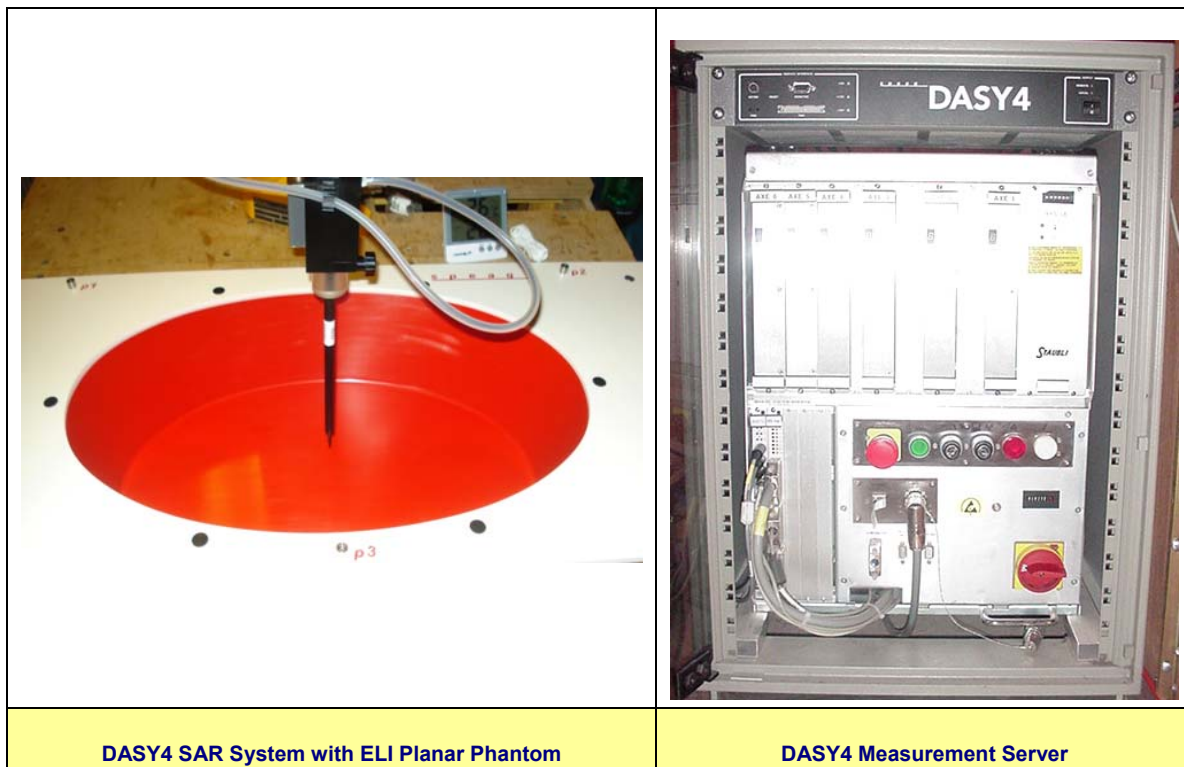
|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## 2.0 INTRODUCTION

This measurement report demonstrates that the HARRIS Corporation XR-PFU1B (XG-15P UHF-H) Portable PTT Radio Transceivers complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the Occupational / Controlled Exposure environment. The measurement procedures were in accordance of KDB 447498; KDB 865664; IC RSS-102 Issue 5 and IEEE Standard 1528-2013. A description of the device, operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used and the various provisions of the rules are included within this test report. Subsequent addendums were applied to the following Radio Transceivers:

## 3.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility employs a Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, a robot controller, a computer, a near-field probe, a probe alignment sensor, an Elliptical Planar Phantom (ELI) phantom and a specific anthropomorphic mannequin (SAM) phantom for Head and/or Body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller and a teach pendant (Joystick) to control the robot's servo motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical form the DAE to digital electronic signal and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter, a command decoder and a control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot utilizes a controller with built in VME-bus computer.



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                              |                                                    |                                                   |                                                                                     |
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|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

## 4.0 RF CONDUCTED POWER MEASUREMENT

Table 4.0

| RF Conducted Power Measurement         |                 |                |      |             |      |                             |
|----------------------------------------|-----------------|----------------|------|-------------|------|-----------------------------|
| Average Conducted Power <sup>(1)</sup> |                 |                |      |             |      |                             |
| Frequency Band                         | Frequency (MHz) | System Radio   |      |             |      | Test Channel <sup>(2)</sup> |
|                                        |                 | Measured Power |      | Rated Power |      |                             |
|                                        |                 | (dBm)          | (W)  | (dBm)       | (W)  |                             |
| UHF                                    | 440.00          | 37.00          | 5.01 | 37.00       | 5.00 | X                           |
|                                        | 459.00          | 36.80          | 4.79 | 37.00       | 5.00 | X                           |
|                                        | 470.00          | 36.80          | 4.79 | 37.00       | 5.00 | X                           |
|                                        | 476.00          | 36.80          | 4.79 | 37.00       | 5.00 | X                           |
|                                        | 494.00          | 36.90          | 4.90 | 37.00       | 5.00 | X                           |
|                                        | 512.00          | 37.00          | 5.01 | 37.00       | 5.00 | X                           |

(1) The RF conducted output power levels of the DUT were measured by Celltech Labs prior to the SAR evaluations using a Gigatronics 8652A Universal Power Meter at the external antenna connector of the radio in accordance with requirements of FCC 47 CFR §2.1046 and IC RSS-Gen.

(2) See Section 4.0

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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## 5.0 NUMBER OF TEST CHANNELS ( $N_C$ )

**Table 5.0**

| Number of Test Channels ( $N_C$ ) <sup>(3)</sup> |              |                       |                      |                      |
|--------------------------------------------------|--------------|-----------------------|----------------------|----------------------|
| Antenna Part Number                              | Antenna Type | Frequency Range (MHz) | $N_C$ <sup>(1)</sup> | $N_C$ <sup>(2)</sup> |
| KRE 1011219/12                                   | Helical Stub | 440-494               | 4                    | 4                    |
| KRE 1011219/14                                   | Helical Stub | 470-512               | 4                    | 4                    |
| KRE 1011223/12                                   | Spring Whip  | 440-512               | 5                    | 5                    |

(1) In accordance with KDB 447498

(2) In accordance with IEC 62209-1

(3) The total number of unique channels tested was 6 for the entire band of 440MHz - 512MHz

## 6.0 MANUFACTURER'S ACCESSORY LIST

**Table 6.0**

### Change History

| Change ID | Date        | Change Type | Description of Change |
|-----------|-------------|-------------|-----------------------|
| 1         | 21 Sep 2015 | New         | New Filing            |

**Table 6.1**

### Manufacturer's Accessory List

| Test Report ID Number  | Manufacturer's Part Number | Description                                                 | Change ID <sup>(1)</sup> | UDC Group <sup>(2)</sup> | Type II Group <sup>(3)</sup> | SAR <sup>(4)</sup> Evaluated |
|------------------------|----------------------------|-------------------------------------------------------------|--------------------------|--------------------------|------------------------------|------------------------------|
| <b>Antenna</b>         |                            |                                                             |                          |                          |                              |                              |
| T1                     | KRE 1011219/12             | Helical Stub Antenna (440-494 MHz)                          | 1                        |                          |                              | Y                            |
| T2                     | KRE 1011219/14             | Helical Stub Antenna (470-512 MHz)                          | 1                        |                          |                              | Y                            |
| T3                     | KRE 1011223/12             | 1/4 Wave Whip (440-512 MHz)                                 | 1                        |                          |                              | Y                            |
| <b>Battery</b>         |                            |                                                             |                          |                          |                              |                              |
| P1                     | BT-023436-001              | Lithium-polymer Battery, immersible, non-IS (7.4V, 3600mAh) | 1                        |                          |                              | Y                            |
| P2                     | BT-023406-003              | Ni-MH Battery, immersible, non-IS (7.5V, 2400mAh)           | 1                        |                          |                              | Y                            |
| P3                     | 14002-0214-01              | Li-Ion Battery, immersible, non-IS (7.4V, 2400mAh)          | 1                        |                          |                              | Y                            |
| <b>Audio Accessory</b> |                            |                                                             |                          |                          |                              |                              |
| A1                     | EA-009580-001              | Earphone Kit, Black                                         | 1                        | P5A                      | n/a                          | Y                            |
| A2                     | EA-009580-002              | Earphone Kit, Beige                                         | 1                        | P5A                      | n/a                          | Y                            |
| A3                     | EA-009580-003              | 2-Wire Kit, Palm mic, Black                                 | 1                        | P7A                      | PM                           | Y                            |
| A4                     | EA-009580-004              | 2-Wire Kit, Palm mic, Beige                                 | 1                        | P7A                      | PM                           | Y                            |

|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
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|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

|        |               |                                                   |                                                                                      |      |      |     |   |
|--------|---------------|---------------------------------------------------|--------------------------------------------------------------------------------------|------|------|-----|---|
| A5     | EA-009580-005 | 3-Wire Kit, Mini-Lapel Mic, Black                 | 1                                                                                    | P7A  | LM   | Y   |   |
| A6     | EA-009580-006 | 3-Wire Kit, Mini-Lapel Mic, Beige                 | 1                                                                                    | P7A  | LM   | Y   |   |
| A7     | EA-009580-007 | Explorer Headset w/ PTT                           | 1                                                                                    | P7A  | IL   | Y   |   |
| A8     | EA-009580-008 | Lightweight headset single speaker w/ PTT         | 1                                                                                    | P7A  | IL   | Y   |   |
| A9     | EA-009580-009 | Breeze Headset w/ PTT                             | 1                                                                                    | P7A  | IL   | Y   |   |
| A10    | EA-009580-010 | Headset, heavy duty, N/C behind the head w/ PTT   | 1                                                                                    | P7A  | IL   | Y   |   |
| A11    | EA-009580-011 | Ranger Headset w/ PTT                             | 1                                                                                    | P7A  | IL   | Y   |   |
| A12    | EA-009580-012 | Skull mic w/ body PTT & earcup                    | 1                                                                                    | P7C  | BB   | Y   |   |
| A13    | EA-009580-013 | Headset, heavy duty, N/C over the head w/ PTT     | 1                                                                                    | P7A  | IL   | Y   |   |
| A14    | EA-009580-014 | Throat mic w/ acoustic tube & body PTT            | 1                                                                                    | P8B  | BB   | Y   |   |
| A15    | EA-009580-015 | Throat mic w/ acoustic tube, body PTT, & ring PTT | 1                                                                                    | P8B  | BB   | Y   |   |
| A16    | EA-009580-016 | Breeze headset w/ PTT & pigtail jack              | 1                                                                                    | P7A  | IL   | Y   |   |
| A17    | EA-009580-017 | Hurricane headset w/ PTT                          | 1                                                                                    | P7A  | IL   | Y   |   |
| A18    | EA-009580-018 | Hurricane headset w/ PTT & pigtail jack           | 1                                                                                    | P7A  | ILPT | Y   |   |
| A19    | EA-009580-031 | Tac4 Headset                                      | 1                                                                                    | P7A  | IL   | Y   |   |
| A20    | LS103239V1    | Earphone for speaker/mic                          | 1                                                                                    | n/a  | J    | Y   |   |
| A21    | LS103239V2    | Earphone for speaker/mic                          | 1                                                                                    | n/a  | J    | Y   |   |
| A22    | MC-009104-002 | GPS Speaker-Microphone                            | 1                                                                                    | P11A | PB   | Y   |   |
| A23    | MC-023933-501 | Speaker-Microphone with Noise-Canceling           | 1                                                                                    | P8A  | PB   | Y   |   |
| A24    | MC-011617-601 | Speaker-Microphone                                | 1                                                                                    | P8A  | PB   | Y   |   |
| A25    | MC-011617-611 | Speaker-Microphone                                | 1                                                                                    | P9A  | PB   | Y   |   |
| A26    | MC-011617-651 | Rugged Speaker-Microphone w/ man-down             | 1                                                                                    | P9A  | PB   | Y   |   |
| A27    | MC-011617-701 | Speaker-Microphone                                | 1                                                                                    | P8A  | PB   | Y   |   |
| A28    | MC-023933-001 | Speaker-Microphone Non-Antenna Version            | 1                                                                                    | P8A  | PB   | Y   |   |
| A29    | MC-023933-003 | Speaker-Mic (SML), black, no ant.                 | 1                                                                                    | P8A  | PB   | Y   |   |
| A30    | 12150-4001-03 | Fire Speaker MIC                                  | 1                                                                                    | P15A | PB   | Y   |   |
| A31    | 12150-4001-04 | Fire Speaker MIC                                  | 1                                                                                    | P15A | PB   | Y   |   |
| A32    | 14002-0197-02 | UDC to 6-pin Hirose adapter                       | 1                                                                                    | HR   | n/a  | Y   |   |
| A33    | 14002-2014-01 | UDC Adapter - GPS                                 | 1                                                                                    | GPS  | n/a  | Y   |   |
| A34(5) | 14002-2015-01 | UDC Adapter - BlueTooth                           |                                                                                      | BT   | n/a  |     |   |
| A35    | V1-10168      | Requires UDC to 6-pin Hirose adapter              | 1 Wire Earphone Kit Black (Receive only no transmit)                                 | 1    | HR   | n/a | Y |
| A36    | V1-10167      |                                                   | 1 Wire Earphone Kit Beige (Receive only no transmit)                                 | 1    | HR   | n/a | Y |
| A37    | V1-10166      |                                                   | 2 Wire Palm Microphone Kit Black                                                     | 1    | HR   | n/a | Y |
| A38    | V1-10165      |                                                   | 2 Wire Palm Microphone Kit Beige                                                     | 1    | HR   | n/a | Y |
| A39    | V1-10164      |                                                   | 3 Wire Mini Lapel Microphone Kit Black                                               | 1    | HR   | n/a | Y |
| A40    | V1-10163      |                                                   | 3 Wire Mini Lapel Microphone Kit Beige                                               | 1    | HR   | n/a | Y |
| A41    | V4-BA2MD1     |                                                   | Breeze, lightweight, behind-the-head, single spkr with std PTT                       | 1    | HR   | n/a | Y |
| A42    | V4-BA2MD3B    |                                                   | Breeze, lightweight, behind-the-head, single spkr w/std. PTT & 2.5mm pigtail for PTT | 1    | HR   | n/a | Y |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                              |                                                    |                                                   |                                                                                     |
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|  | Date(s) of Evaluation<br>Sep 14-21, 2015     | Test Report Serial No.<br>091015OWD-1332-S         | Test Report Revision No.<br>Rev. 1.2              |  |
|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

|                     |               |                                                                                                                                                                          |                                                                  |   |    |     |   |
|---------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---|----|-----|---|
| A43                 | V4-10190      |                                                                                                                                                                          | Lightweight Single Spkr Padded Headband with std PTT             | 1 | HR | n/a | Y |
| A44                 | V4-NR2MD1     |                                                                                                                                                                          | Ranger Single Speaker behind-the-head with std PTT               | 1 | HR | n/a | Y |
| A45                 | V4-10148      |                                                                                                                                                                          | Over-the-head Dual Speaker Heavy Duty with std PTT               | 1 | HR | n/a | Y |
| A46                 | V4-10148-S    |                                                                                                                                                                          | Over-the-head Dual Speaker Heavy Duty with std PTT-IS/ATEX       | 1 | HR | n/a | Y |
| A47                 | V4-10001      |                                                                                                                                                                          | Behind-the-Head Dual Speaker Heavy Duty with std PTT             | 1 | HR | n/a | Y |
| A48                 | V4-10001-S    |                                                                                                                                                                          | Behind-the-Head Dual Speaker Heavy Duty with std PTT-IS/ATEX     | 1 | HR | n/a | Y |
| A49                 | V1-T12MD137   |                                                                                                                                                                          | Professional Throat Mic with Acoustic Tube & 80mm PTT            | 1 | HR | n/a | Y |
| A50                 | V4-10279      |                                                                                                                                                                          | Professional Skull Mic with Earcup, Aviation Quality & 80 MM PTT | 1 | HR | n/a | Y |
| Body-Worn Accessory |               |                                                                                                                                                                          |                                                                  |   |    |     |   |
| B1                  | CC-011318     | Metal Belt Clip (alternate)                                                                                                                                              |                                                                  | 1 |    |     | Y |
| B2                  | CC-014524-001 | Bee Shoulder Strap (used with Leather Cases with D-Rings)                                                                                                                |                                                                  | 1 |    |     | Y |
| B3                  | CC-014524-002 | Bee Short Leather Retaining Strap (used with Shoulder Strap)                                                                                                             |                                                                  | 1 |    |     | Y |
| B4                  | CC-014527     | Bee Leather Belt Loop                                                                                                                                                    |                                                                  | 1 |    |     | Y |
| B5                  | CC-014528-001 | Bee Leather Case with Swivel                                                                                                                                             |                                                                  | 1 |    |     | Y |
| B6                  | CC-014528-002 | Bee Leather Case with Swivel, D-Rings for Shoulder Strap                                                                                                                 |                                                                  | 1 |    |     | Y |
| B7                  | CC-014534-001 | Bee Nylon Case (Black) with Swivel                                                                                                                                       |                                                                  | 1 |    |     | Y |
| B8                  | CC-014534-002 | Bee Nylon Case (Black) with Integral Belt-Clip                                                                                                                           |                                                                  | 1 |    |     | Y |
| B9                  | CC-023931-002 | Leather Case w/ D-rings, Elastic Strap (P/N: FM-011820), Shoulder Strap (P/N: CC103333V1)                                                                                |                                                                  | 1 |    |     | Y |
| B10                 | CC-023931-003 | Leather Case Kit 1: Leather Case w/o D-rings (P/N: CC-023931-001), Swivel-Mount (P/N: KRY 1011608/2), Elastic Strap (P/N: FM-011820) and Belt Loop (P/N: KRY 101 1609/1) |                                                                  | 1 |    |     | Y |
| B11                 | CC-023931-004 | Leather Case Kit 2: Leather Case w/ D-rings (P/N: CC-023931-002), Swivel-Mount (P/N: KRY 1011608/2), Elastic Strap (P/N: FM-011820) and Belt Loop (P/N: KRY 101 1609/1)  |                                                                  | 1 |    |     | Y |
| B12                 | CC-023932-001 | Nylon (black) Case (w/ swivel) and Belt Loop (P/N: KRY 101 1609/1)                                                                                                       |                                                                  | 1 |    |     | Y |
| B13                 | CC-023932-002 | Nylon Case (Orange) w/ Leather Belt Loop (P/N: KRY 101 1609/1)                                                                                                           |                                                                  | 1 |    |     | Y |
| B14                 | CC-023894     | Metal Belt-Clip (standard)                                                                                                                                               |                                                                  | 1 |    |     | Y |
| B15                 | 14002-0217-01 | Nylon Case (Olive Drab)                                                                                                                                                  |                                                                  | 1 |    |     | Y |
| B16                 | 14002-0218-01 | Merzon Belt Loop                                                                                                                                                         |                                                                  | 1 |    |     | Y |
| B17                 | KRY 1011608/2 | Metal Swivel Mount                                                                                                                                                       |                                                                  | 1 |    |     | Y |
| B18                 | KRY 1011609/1 | Leather Belt Loop and Metal Swivel Mount (P/N:KRY 1011608/2)                                                                                                             |                                                                  | 1 |    |     | Y |
| B19                 | KRY 1011656/1 | Nylon "T" Strap Holder                                                                                                                                                   |                                                                  | 1 |    |     | Y |
| B19                 | KRY1011609/1  | Merzon                                                                                                                                                                   | Merzon Leather Belt-Loop                                         | 1 |    |     | Y |
|                     | CC-014534-001 | Combo                                                                                                                                                                    | Bee Nylon Case (Black) with Swivel                               | 1 |    |     | Y |
| B20                 | KRY1011609/1  | Merzon                                                                                                                                                                   | Merzon Leather Belt-Loop                                         | 1 |    |     | Y |
|                     | CC-014528-001 |                                                                                                                                                                          | Leather Case                                                     | 1 |    |     | Y |
|                     | FM-017262-01  | Combo                                                                                                                                                                    | Swivel Mount                                                     | 1 |    |     | Y |

(1) From Table 1.0 - Indicates which change the item was introduced or tested.

(2) UDC Group: P = Series, Number = Number of Pins, A/B/C = Configuration, HR = Hirose, BT = BlueTooth,

(3) Type II Group: PB = Palm Button, IL = In-Line Pushbutton, PT = Pigtail Pushbutton, RB = Ring Pushbutton, BB = Body Button,

(4) Accessories are categorized into groups of similar design and construction. Samples of individual groups are evaluated.

|                         |                                                                                                                      |                 |                                                                                       |
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| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

(5) The 14002-2015-01 Bluetooth Module is pending approval. SAR was evaluated using this module as it resulted in a more Conservative SAR.

**NOTE:** All Audio and Body Worn Accessories were evaluated by test or results from previous evaluations.

|                         |                                                                                                                      |                 |                                                                                       |
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| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                              |                                                    |                                                   |                                                                                     |
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|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                     |

## 7.0 SAR MEASUREMENT SUMMARY

Table 7.0

| Measured SAR Results (1g)- FACE Configuration (FCC/IC) |         |        |        |                             |            |             |                   |         |                    |                |               |                      |               |                |
|--------------------------------------------------------|---------|--------|--------|-----------------------------|------------|-------------|-------------------|---------|--------------------|----------------|---------------|----------------------|---------------|----------------|
| Date                                                   | Plot ID | DUT    |        | Test Frequency (MHz )       | Modulation | Accessories |                   |         |                    | DUT Spacing    |               | Measured SAR (1g)    |               | SAR Drift (dB) |
|                                                        |         | M/N    | Type   |                             |            | Antenna ID  | Battery ID        | Body ID | Audio ID           | DUT (mm )      | Antenna (mm ) | 100% DC (W/kg)       | 50% DC (W/kg) |                |
| 14 Sep 2015                                            | F1      | XG-15P | System | 440                         | CW         | T1          | P3                | n/a     | n/a                | 25             | 57            | 2.880                | 1.440         | -0.085         |
|                                                        | F2      |        |        | 459                         |            | T1          | P3                | n/a     | n/a                |                |               | 2.710                | 1.355         | -0.198         |
| 16 Sep 2015                                            | F3      |        |        | 476                         |            | T1          | P3                | n/a     | n/a                |                |               | 2.340                | 1.170         | -0.124         |
|                                                        | F4      |        |        | 494                         |            | T1          | P3                | n/a     | n/a                |                |               | 1.670                | 0.835         | -0.146         |
|                                                        | F5      |        |        | 470                         |            | T2          | P3                | n/a     | n/a                |                |               | 2.790                | 1.395         | 0.206          |
|                                                        | F6      |        |        | 476                         |            | T2          | P3                | n/a     | n/a                |                |               | 3.410                | 1.705         | 0.121          |
|                                                        | F7      |        |        | 494                         |            | T2          | P3                | n/a     | n/a                |                |               | 4.190                | 2.095         | -0.195         |
|                                                        | F8      |        |        | 512                         |            | T2          | P3                | n/a     | n/a                |                |               | 3.810                | 1.905         | -0.144         |
|                                                        | F9      |        |        | 440                         |            | T3          | P3                | n/a     | n/a                |                |               | 2.790                | 1.395         | -0.184         |
|                                                        | F10     |        |        | 459                         |            | T3          | P3                | n/a     | n/a                |                |               | 3.230                | 1.615         | 0.038          |
|                                                        | F11     |        |        | 476                         |            | T3          | P3                | n/a     | n/a                |                |               | 3.140                | 1.570         | -0.084         |
|                                                        | F12     |        |        | 494                         |            | T3          | P3                | n/a     | n/a                |                |               | 2.660                | 1.330         | -0.167         |
|                                                        | F13     |        |        | 512                         |            | T3          | P3                | n/a     | n/a                |                |               | 2.680                | 1.340         | -0.118         |
|                                                        | F14     |        |        | 494                         |            | T1          | P2 <sup>(1)</sup> | n/a     | n/a                |                |               | 4.040                | 2.020         | -0.134         |
|                                                        | F15     |        |        | 494                         |            | T1          | P1 <sup>(1)</sup> | n/a     | n/a                |                |               | 4.440                | 2.220         | -0.170         |
|                                                        | F16     |        |        | 494                         |            | T1          | P1                | n/a     | A34 <sup>(2)</sup> |                |               | 5.710                | 2.855         | -0.198         |
|                                                        | F17     |        |        | 494                         |            | T1          | P1                | n/a     | A33 <sup>(2)</sup> |                |               | 6.190                | 3.095         | -0.195         |
| SAR Limit                                              |         |        |        |                             |            | Head/Body   |                   |         |                    | Spatial Peak   |               | RF Exposure Category |               |                |
| FCC 47 CFR 2.1093                                      |         |        |        | Health Canada Safety Code 6 |            |             | 8.0 W/kg          |         |                    | 1 Gram Average |               | Occupational         |               |                |

(1) Test to the worst case results - F7

(2) Test to the worst case results - F7 - See also Note (5) of Table 6.0

|                         |                                                                                                                      |                 |                                                                                       |
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| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
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|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>Sep 14-21, 2015     | Test Report Serial No.<br>091015OWD-1332-S         | Test Report Revision No.<br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                           | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                                                         |

Table 7.1

| Measured SAR Results (1g)- BODY Configuration (FCC/IC) |         |        |        |                             |            |             |                   |         |                    |                |                      |                   |                |                |
|--------------------------------------------------------|---------|--------|--------|-----------------------------|------------|-------------|-------------------|---------|--------------------|----------------|----------------------|-------------------|----------------|----------------|
| Date                                                   | Plot ID | DUT    |        | Test Frequency (MHz )       | Modulation | Accessories |                   |         |                    | DUT Spacing    |                      | Measured SAR (1g) |                | SAR Drift (dB) |
|                                                        |         | M/N    | Type   |                             |            | Antenna ID  | Battery ID        | Body ID | Audio ID (3)       | DUT (mm )      | Antenna (mm )        | 100% DC (W/kg)    | 50% DC (W/kg ) |                |
| 19 Sep 2015                                            | B1      | XG-15P | System | 440                         | CW         | T1          | P3                | B19     | A34                | 0              | 25                   | 9.640             | 4.820          | -0.093         |
|                                                        | B2      |        |        | 459                         |            | T1          | P3                | B19     | A34                |                |                      | 7.430             | 3.715          | -0.165         |
|                                                        | B3      |        |        | 476                         |            | T1          | P3                | B19     | A34                |                |                      | 5.830             | 2.915          | -0.160         |
|                                                        | B4      |        |        | 494                         |            | T1          | P3                | B19     | A34                |                |                      | 4.500             | 2.250          | -0.194         |
|                                                        | B5      |        |        | 470                         |            | T2          | P3                | B19     | A34                |                |                      | 9.450             | 4.725          | 0.123          |
|                                                        | B6      |        |        | 476                         |            | T2          | P3                | B19     | A34                |                |                      | 11.100            | 5.550          | 0.024          |
|                                                        | B7      |        |        | 494                         |            | T2          | P3                | B19     | A34                |                |                      | 9.670             | 4.835          | -0.202         |
|                                                        | B8      |        |        | 512                         |            | T2          | P3                | B19     | A34                |                |                      | 7.600             | 3.800          | -0.161         |
| 20 Sep 2015                                            | B9      |        |        | 440                         |            | T3          | P3                | B19     | A34                |                |                      | 7.580             | 3.790          | -0.126         |
|                                                        | B10     |        |        | 459                         |            | T3          | P3                | B19     | A34                |                |                      | 7.780             | 3.890          | -0.067         |
|                                                        | B11     |        |        | 476                         |            | T3          | P3                | B19     | A34                |                |                      | 7.190             | 3.595          | -0.156         |
|                                                        | B12     |        |        | 494                         |            | T3          | P3                | B19     | A34                |                |                      | 6.830             | 3.415          | -0.121         |
|                                                        | B13     |        |        | 512                         |            | T3          | P3                | B19     | A34                |                |                      | 5.360             | 2.680          | -0.063         |
|                                                        | B14     |        |        | 476                         |            | T2          | P1 <sup>(1)</sup> | B19     | A34                |                |                      | 8.480             | 4.240          | 0.158          |
|                                                        | B15     |        |        | 476                         |            | T2          | P2 <sup>(1)</sup> | B19     | A34                |                |                      | 12.200            | 6.100          | 0.182          |
|                                                        | B16     |        |        | 476                         |            | T2          | P2                | B19     | A33 <sup>(2)</sup> |                |                      | 11.600            | 5.800          | 0.118          |
|                                                        | B17     |        |        | 476                         |            | T2          | P2                | B19     | A22 <sup>(2)</sup> |                |                      | 10.900            | 5.450          | -0.054         |
|                                                        | B18     |        |        | 476                         |            | T2          | P2                | B15     | A34                |                | 30                   | 10.800            | 5.400          | -0.029         |
|                                                        | B19     |        |        | 476                         |            | T2          | P2                | B1      | A34                |                | 25                   | 12.500            | 6.250          | 0.050          |
| SAR Limit                                              |         |        |        |                             |            | Head/Body   |                   |         | Spatial Peak       |                | RF Exposure Category |                   |                |                |
| FCC 47 CFR 2.1093                                      |         |        |        | Health Canada Safety Code 6 |            |             | 8.0 W/kg          |         |                    | 1 Gram Average |                      | Occupational      |                |                |

(1) Test to the worst case results - B6

(2) Test to the worst case results - B15

(3) See Note (5) of Table 6.0

|                         |                                                                                                                      |                 |                                                                                       |
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|  | Date(s) of Evaluation<br>Sep 14-21, 2015     | Test Report Serial No.<br>091015OWD-1332-S         | Test Report Revision No.<br>Rev. 1.2              |  |
|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

## 8.0 SCALING OF MAXIMUM MEASURE SAR

Table 8.0

### Scaling of Maximum Measured SAR

| Plot ID | Configuration | Freq  | Measured Fluid Deviation |              | Measured Conducted Power | Measured Drift | Measured SAR (1g) |
|---------|---------------|-------|--------------------------|--------------|--------------------------|----------------|-------------------|
|         |               | (MHz) | Permittivity             | Conductivity | (dBm)                    | (dB)           | (W/kg)            |
| F17     | Face          | 494   | 0.29%                    | 4.6%         | 36.9                     | -0.195         | 3.095             |
| B19     | Body          | 476   | -4.24%                   | 3.19%        | 36.8                     | 0.050          | 6.25              |

#### Step 1(5)

##### Fluid Sensitivity Adjustment (1)

| Plot ID | Scale Factor | X | Measured SAR | = | Adjusted SAR (1g) |
|---------|--------------|---|--------------|---|-------------------|
|         | (%)          |   | (W/kg)       |   | (W/kg)            |
| F17     | n/a          | X | 3.095        | = | 3.095             |
| B19     | n/a          | X | 6.25         | = | 6.25              |

#### Step 2

##### Manufacturer's Tune-Up Tolerance (2)

| Plot ID | Measured Conducted Power | Rated Power | Delta | + | Adjusted SAR | = | Reported SAR (1g) |
|---------|--------------------------|-------------|-------|---|--------------|---|-------------------|
|         | (dBm)                    | (dBm)       | (dB)  |   | (W/kg)       |   | (W/kg)            |
| F17     | 36.9                     | 37.0        | -0.1  | + | 3.095        | = | 3.167             |
| B19     | 36.8                     | 37.0        | -0.2  | + | 6.25         | = | 6.54              |

#### Step 3

##### Simultaneous Transmission (3) - Bluetooth

| Plot ID | Rated Output Power (Pmax) | Freq  | Separation Distance | Estimated SAR | + | Reported SAR | = | Simultaneous Reported SAR |
|---------|---------------------------|-------|---------------------|---------------|---|--------------|---|---------------------------|
|         | (mW)                      | (GHz) | (mm)                | (W/kg)        |   | (W/kg)       |   | (W/kg)                    |
| F17     | 2.0                       | 2.4   | 5.0                 | 0.083         | + | 3.167        | = | 3.25                      |
| B19     | 2.0                       | 2.4   | 5.0                 | 0.083         | + | 6.54         | = | 6.62                      |

#### Step 4 (IC/EU/AU)

##### Drift Adjustment (4)

| Plot ID | Measured Drift | + | Reported or Simultaneous Reported SAR | = | Scaled SAR (1g) |
|---------|----------------|---|---------------------------------------|---|-----------------|
|         | (dB)           |   | (W/kg)                                |   | (W/kg)          |
| F17     | -0.195         | + | 3.25                                  | = | 3.40            |
| B19     | 0.050          | + | 6.62                                  | = | 6.62            |

#### Notes

See Notes Below

|                         |                                                                                                                      |                 |                                                                                       |
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| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

#### Notes

- (1) Per IEC-62209-1. Scaling required only when Measured Fluid Deviation is greater than 5% and only when the Scale Factor is (+) Positive. See Table 8.1
- (2) Per KDB 447498. Scaling required only when Delta is (-) Negative. The absolute value of Delta is added to Adjusted SAR.
- (3) Per KDB 447498 4.3.2.
- (4) Per IEC 62209-1. Scaling required only when Measured Drift is (-) Negative. The absolute value of Measured Drift is added to Reported or Simultaneous Reported SAR.
- (5) Not Required. Fluid deviations were less than 5% of Target

|                         |                                                                                                                      |                        |                                                                                       |
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| <b>Applicant:</b>       | <b>Harris Corporation</b>                                                                                            | <b>Original Filing</b> |  |
| <b>DUT Type:</b>        | <b>XG-15P UHF-H Band Portable PTT Transceiver</b>                                                                    |                        |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## 9.0 SAR EXPOSURE LIMITS

Table 9.0

| SAR RF EXPOSURE LIMITS                                                                                                                                                                         |                                |                                                 |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|-----------------------------------------|
| FCC 47 CFR 2.1093                                                                                                                                                                              | Health Canada<br>Safety Code 6 | (General Population /<br>Uncontrolled Exposure) | (Occupational /<br>Controlled Exposure) |
| <b>Spatial Average</b><br>(averaged over the whole body)                                                                                                                                       |                                | 0.08 W/kg                                       | 0.4 W/kg                                |
| <b>Spatial Peak</b><br>(averaged over any 1 g of tissue)                                                                                                                                       |                                | 1.6 W/kg                                        | <b>8.0 W/kg</b>                         |
| <b>Spatial Peak</b><br>(hands/wrists/feet/ankles averaged over 10 g)                                                                                                                           |                                | 4.0 W/kg                                        | 20.0 W/kg                               |
| The Spatial Average value of the SAR averaged over the whole body.                                                                                                                             |                                |                                                 |                                         |
| The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.                              |                                |                                                 |                                         |
| The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.                            |                                |                                                 |                                         |
| Uncontrolled environments are defined as locations where there is potential exposure to individuals who have no knowledge or control of their potential exposure.                              |                                |                                                 |                                         |
| Controlled environments are defined as locations where there is potential exposure to individuals who have knowledge of their potential exposure and can exercise control over their exposure. |                                |                                                 |                                         |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## 10.0 DETAILS OF SAR EVALUATION

### EVALUATION DETAILS

|   |                                                                                                                                                                                                                                                                                                                                                                            |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | The test channels selected for the SAR evaluations were based test procedures FCC KDB 447498 and IEC 62209-1. The procedure yielding the highest channel count was applied.                                                                                                                                                                                                |
| 2 | The DUT was evaluated for SAR in accordance with the procedures described in FCC KDB 643646.                                                                                                                                                                                                                                                                               |
| 3 | The DUT was evaluated for SAR at the maximum conducted output power level, preset by the manufacturer, in unmodulated continuous transmit operation (Continuous Wave mode at 100% duty cycle) with the transmit key continuously depressed. For a Push-To-Talk (PTT) device, the 50% duty cycle compensation reported assumes a transmit/receive cycle of equal time base. |
| 4 | A single point SAR measurement was taken prior to the Area Scan and after the Zoom Scan and the SAR drift of the DUT was evaluated. The measured SAR drift was added to the measured SAR levels of the Maximum <u>reported</u> SAR (IC/EU only).                                                                                                                           |
| 5 | Each SAR evaluations were performed with a fully charged battery.                                                                                                                                                                                                                                                                                                          |
| 6 | The fluid temperature remained within +/-2°C from the time of the fluid dielectric parameter measurement to the completion of the SAR evaluation.                                                                                                                                                                                                                          |
| 7 | The fluid temperature remained within +/-0.5°C throughout the test day.                                                                                                                                                                                                                                                                                                    |

### SCAN PROCEDURE

|                                                                                                                                                      |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Maximum distance from the closest measurement point to phantom surface.                                                                              | 4 ± 1mm                 |
| Maximum probe angle normal to phantom surface.                                                                                                       | 5° ± 1°                 |
| Area Scan Spatial Resolution ΔX, ΔY                                                                                                                  | 15mm                    |
| Zoom Scan Spatial Resolution ΔX, ΔY                                                                                                                  | 7.5mm                   |
| Zoom Scan Spatial Resolution ΔZ                                                                                                                      | 5mm                     |
| Zoom Scan Volume X, Y, Z                                                                                                                             | 30mm x 30mm x 30mm      |
| Phantom                                                                                                                                              | Elliptical Planar (ELI) |
| Fluid Depth                                                                                                                                          | 150mm                   |
| An Area Scan with an area extending beyond the device was used to locate the candidate maximas within 2dB of the global maxima.                      |                         |
| A Zoom Scan centered over the peak SAR location(s) determined by the Area Scan was used to determine the 1 gram and 10 gram peak spatial-average SAR |                         |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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## 11.0 MEASUREMENT UNCERTAINTIES

IEEE 1528 Table E.9

### UNCERTAINTY BUDGET FOR DEVICE EVALUATION (IEEE 1528-2013 Table 9)

| Source of Uncertainty                                 | IEEE 1528 Section | Toler ±% | Prob Dist  | Div | c <sub>i</sub> | c <sub>i</sub> | Stand Unct ±% | Stand Unct ±%            | V <sub>i</sub> or V <sub>eff</sub> |
|-------------------------------------------------------|-------------------|----------|------------|-----|----------------|----------------|---------------|--------------------------|------------------------------------|
| <b>Measurement System</b>                             |                   |          |            |     | (1g)           | (10g)          | (1g)          | (10g)                    |                                    |
| EX3DV4 Probe Calibration** (k=1)                      | E.2.1             |          | N          | 1   | 1              | 1              | 6.6           | 6.6                      | ∞                                  |
| Axial Isotropy** (k=1)                                | E.2.2             |          | R          | √3  | 0.7            | 0.7            | 0.3           | 0.3                      | ∞                                  |
| Hemispherical Isotropy** (k=1)                        | E.2.2             |          | R          | √3  | 0.7            | 0.7            | 1.3           | 1.3                      | ∞                                  |
| Boundary Effect*                                      | E.2.3             | 1.0      | R          | √3  | 1              | 1              | 0.6           | 0.6                      | ∞                                  |
| Linearity** (k=1)                                     | E.2.4             |          | R          | √3  | 1              | 1              | 0.3           | 0.3                      | ∞                                  |
| System Detection Limits*                              | E.2.4             | 1.0      | R          | √3  | 1              | 1              | 0.6           | 0.6                      | ∞                                  |
| Modulation Response** (k=1)                           | E.2.5             |          | R          | √3  | 1              | 1              | 1.4           | 1.4                      | ∞                                  |
| Readout Electronics*                                  | E.2.6             | 0.0      | N          | 1   | 1              | 1              | 0.0           | 0.0                      | ∞                                  |
| Response Time*                                        | E.2.7             | 0.8      | R          | √3  | 1              | 1              | 0.5           | 0.5                      | ∞                                  |
| Integration Time*                                     | E.2.8             | 2.6      | R          | √3  | 1              | 1              | 1.5           | 1.5                      | ∞                                  |
| RF Ambient Conditions - Noise                         | E.6.1             | 1.3      | R          | √3  | 1              | 1              | 0.7           | 0.7                      | 10                                 |
| RF Ambient Conditions - Reflection                    | E.6.1             | 0.0      | R          | √3  | 1              | 1              | 0.0           | 0.0                      | 10                                 |
| Probe Positioner Mechanical Tolerance*                | E.6.2             | 0.4      | R          | √3  | 1              | 1              | 0.2           | 0.2                      | ∞                                  |
| Probe Positioning wrt Phantom Shell*                  | E.6.3             | 2.9      | R          | √3  | 1              | 1              | 1.7           | 1.7                      | ∞                                  |
| Post-processing*                                      | E.5               | 3.9      | R          | √3  | 1              | 1              | 2.3           | 2.3                      | ∞                                  |
| <b>Test Sample Related</b>                            |                   |          |            |     |                |                |               |                          |                                    |
| Test Sample Positioning                               | E.4.2             | 0.3      | N          | 1   | 1              | 1              | 0.3           | 0.3                      | 5                                  |
| Device Holder Uncertainty*                            | E.4.1             | 3.6      | N          | 1   | 1              | 1              | 3.6           | 3.6                      | ∞                                  |
| SAR Drift Measurement <sup>(2)</sup>                  | E.2.9             | 0.0      | R          | √3  | 1              | 1              | 0.0           | 0.0                      | ∞                                  |
| SAR Power Scaling <sup>(3)</sup>                      | E.6.5             | 0.0      | R          | √3  | 1              | 1              | 0.0           | 0.0                      | ∞                                  |
| <b>Phantom and Tissue Parameters</b>                  |                   |          |            |     |                |                |               |                          |                                    |
| Phantom Uncertainty*                                  | E.3.1             | 4.0      | R          | √3  | 1              | 1              | 2.3           | 2.3                      | ∞                                  |
| SAR Correction Uncertainty                            | E.3.2             | 1.2      | N          | 1   | 1              | 0.84           | 1.2           | 1.0                      | ∞                                  |
| Liquid Conductivity (measurement)                     | E.3.3             | 5.0      | N          | 1   | 0.78           | 0.71           | 3.9           | 3.6                      | 10                                 |
| Liquid Permittivity (measurement)                     | E.3.3             | 5.0      | N          | 1   | 0.23           | 0.26           | 1.2           | 1.3                      | 10                                 |
| Liquid Conductivity (Temperature)                     | E.3.2             | 0.1      | R          | √3  | 0.78           | 0.71           | 0.0           | 0.0                      | 10                                 |
| Liquid Permittivity Temperature)                      | E.3.2             | 0.1      | R          | √3  | 0.23           | 0.26           | 0.0           | 0.0                      | 10                                 |
| <b>Effective Degrees of Freedom<sup>(1)</sup></b>     |                   |          |            |     |                |                |               | <b>V<sub>eff</sub> =</b> | <b>1057</b>                        |
| <b>Combined Standard Uncertainty</b>                  |                   |          | <b>RSS</b> |     |                |                | <b>9.8</b>    | <b>9.6</b>               |                                    |
| <b>Expanded Uncertainty (95% Confidence Interval)</b> |                   |          | <b>k=2</b> |     |                |                | <b>19.5</b>   | <b>19.3</b>              |                                    |

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003

|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

(1) The Effective Degrees of Freedom is > 30

Therefore a coverage factor of k=2 represents an approximate confidence level of 95%.

(2) The SAR Value is compensated for Drift

(3) SAR Power Scaling not Required

\* Provided by SPEAG for DASY4

\*\* Standard Uncertainty Calibration Data Provided by SPEAG for EX3DEV4 Probe

**Table 11.1**

**Calculation of the Degrees and Effective Degrees of Freedom**

|               |                                                                       |
|---------------|-----------------------------------------------------------------------|
| $v_i = n - 1$ | $v_{\text{eff}} = \frac{u_c^4}{m \sum_{i=1} \frac{c_i^4 u_i^4}{v_i}}$ |
|---------------|-----------------------------------------------------------------------|

|                         |                                                                                                                      |                        |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | <b>Harris Corporation</b>                                                                                            | <b>Original Filing</b> |  |
| <b>DUT Type:</b>        | <b>XG-15P UHF-H Band Portable PTT Transceiver</b>                                                                    |                        |                                                                                       |
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## 12.0 TISSUE SIMULATING LIQUID (TSL) RECIPE

Table 12.0

| Simulated Tissue Mixture |                    |
|--------------------------|--------------------|
| <b>Frequency:</b>        | <b>Fluid Type</b>  |
| <b>450 MHz</b>           | <b>HEAD</b>        |
| <b>Ingredient</b>        | <b>% by Weight</b> |
| Water                    | 38.56              |
| Sugar                    | 56.32              |
| Salt                     | 3.95               |
| HEC                      | 0.98               |
| Bacteriacide             | 0.19               |

Table 12.1

| Simulated Tissue Mixture |                    |
|--------------------------|--------------------|
| <b>Frequency:</b>        | <b>Fluid Type</b>  |
| <b>450 MHz</b>           | <b>BODY</b>        |
| <b>Ingredient</b>        | <b>% by Weight</b> |
| Water                    | 52                 |
| Sugar                    | 45.65              |
| Salt                     | 1.75               |
| HEC                      | 0.5                |
| Bacteriacide             | 0.1                |

The simulated equivalent tissue recipes in the table below are derived from the SAR system manufacturer's suggested recipes in the DASY4 manual (see references [10] and [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2013, IEC 62209-1 and RSS 102. The ingredient percentage may have been adjusted minimally in order to achieve the appropriate target dielectric parameters within the specified tolerance.

|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

### 13.0 FLUID DIELECTRIC PARAMETERS

**Table 13.0**

| FLUID DIELECTRIC PARAMETERS |             |            |          |          |                        |                        |
|-----------------------------|-------------|------------|----------|----------|------------------------|------------------------|
| Date:                       | 14 Sep 2015 | Frequency: |          | 450MHz   | Tissue:                | Head                   |
| Freq (MHz)                  | Test_e      | Test_s     | Target_e | Target_s | Deviation Permittivity | Deviation Conductivity |
| 350.0000                    | 46.21       | 0.78       | 44.70    | 0.87     | 3.38%                  | -10.34%                |
| 360.0000                    | 46.95       | 0.81       | 44.58    | 0.87     | 5.32%                  | -6.90%                 |
| 370.0000                    | 45.57       | 0.81       | 44.46    | 0.87     | 2.50%                  | -6.90%                 |
| 380.0000                    | 45.41       | 0.81       | 44.34    | 0.87     | 2.41%                  | -6.90%                 |
| 390.0000                    | 44.57       | 0.82       | 44.22    | 0.87     | 0.79%                  | -5.75%                 |
| 400.0000                    | 45.21       | 0.82       | 44.10    | 0.87     | 2.52%                  | -5.75%                 |
| 410.0000                    | 45.31       | 0.84       | 43.98    | 0.87     | 3.02%                  | -3.45%                 |
| 420.0000                    | 45.10       | 0.85       | 43.86    | 0.87     | 2.83%                  | -2.30%                 |
| 430.0000                    | 44.78       | 0.84       | 43.74    | 0.87     | 2.38%                  | -3.45%                 |
| 440.0000                    | 45.10       | 0.86       | 43.62    | 0.87     | 3.39%                  | -1.15%                 |
| 450.0000                    | 44.66       | 0.88       | 43.50    | 0.87     | 2.67%                  | 1.15%                  |
| 459.0000                    | 43.85       | 0.89       | 43.46    | 0.87     | 0.91%                  | 2.18%                  |
| 460.0000                    | 43.76       | 0.89       | 43.45    | 0.87     | 0.71%                  | 2.30%                  |
| 470.0000                    | 44.00       | 0.89       | 43.40    | 0.87     | 1.38%                  | 2.30%                  |
| 476.0000                    | 43.69       | 0.90       | 43.36    | 0.87     | 0.76%                  | 3.68%                  |
| 480.0000                    | 43.49       | 0.91       | 43.34    | 0.87     | 0.35%                  | 4.60%                  |
| 490.0000                    | 43.39       | 0.91       | 43.29    | 0.87     | 0.23%                  | 4.60%                  |
| 494.0000                    | 43.39       | 0.91       | 43.27    | 0.87     | 0.29%                  | 4.60%                  |
| 500.0000                    | 43.40       | 0.91       | 43.24    | 0.87     | 0.37%                  | 4.60%                  |
| 510.0000                    | 42.81       | 0.93       | 43.19    | 0.87     | -0.88%                 | 6.90%                  |
| 512.0000                    | 42.82       | 0.93       | 43.18    | 0.87     | -0.82%                 | 6.65%                  |
| 520.0000                    | 42.88       | 0.93       | 43.14    | 0.88     | -0.60%                 | 5.68%                  |
| 530.0000                    | 42.29       | 0.94       | 43.08    | 0.88     | -1.83%                 | 6.82%                  |
| 540.0000                    | 42.83       | 0.95       | 43.03    | 0.88     | -0.46%                 | 7.95%                  |
| 550.0000                    | 42.17       | 0.97       | 42.98    | 0.88     | -1.88%                 | 10.23%                 |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
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**Table 13.1**

### FLUID DIELECTRIC PARAMETERS

| Date:      | 18 Sep 2015 | Frequency: |          |          | 450MHz | Tissue:                | Body                   |
|------------|-------------|------------|----------|----------|--------|------------------------|------------------------|
| Freq (MHz) | Test_e      | Test_s     | Target_e | Target_s |        | Deviation Permittivity | Deviation Conductivity |
| 350.0000   | 55.90       | 0.87       | 57.70    | 0.93     |        | -3.12%                 | -6.45%                 |
| 360.0000   | 55.74       | 0.88       | 57.60    | 0.93     |        | -3.23%                 | -5.38%                 |
| 370.0000   | 55.42       | 0.88       | 57.50    | 0.93     |        | -3.62%                 | -5.38%                 |
| 380.0000   | 55.44       | 0.88       | 57.40    | 0.93     |        | -3.41%                 | -5.38%                 |
| 390.0000   | 55.24       | 0.89       | 57.30    | 0.93     |        | -3.60%                 | -4.30%                 |
| 400.0000   | 54.64       | 0.91       | 57.20    | 0.93     |        | -4.48%                 | -2.15%                 |
| 410.0000   | 55.17       | 0.92       | 57.10    | 0.93     |        | -3.38%                 | -1.08%                 |
| 420.0000   | 55.11       | 0.93       | 57.00    | 0.94     |        | -3.32%                 | -1.06%                 |
| 430.0000   | 55.06       | 0.94       | 56.90    | 0.94     |        | -3.23%                 | 0.00%                  |
| 440.0000   | 54.27       | 0.95       | 56.80    | 0.94     |        | -4.45%                 | 1.06%                  |
| 450.0000   | 55.09       | 0.96       | 56.70    | 0.94     |        | -2.84%                 | 2.13%                  |
| 459.0000   | 54.16       | 0.98       | 56.66    | 0.94     |        | -4.41%                 | 4.04%                  |
| 460.0000   | 54.06       | 0.98       | 56.66    | 0.94     |        | -4.59%                 | 4.26%                  |
| 470.0000   | 54.41       | 0.97       | 56.62    | 0.94     |        | -3.90%                 | 3.19%                  |
| 476.0000   | 54.19       | 0.97       | 56.60    | 0.94     |        | -4.24%                 | 3.19%                  |
| 480.0000   | 54.05       | 0.97       | 56.58    | 0.94     |        | -4.47%                 | 3.19%                  |
| 490.0000   | 54.16       | 1.00       | 56.54    | 0.94     |        | -4.21%                 | 6.38%                  |
| 494.0000   | 54.18       | 1.00       | 56.53    | 0.94     |        | -4.16%                 | 6.38%                  |
| 500.0000   | 54.20       | 1.00       | 56.51    | 0.94     |        | -4.09%                 | 6.38%                  |
| 510.0000   | 53.10       | 1.00       | 56.47    | 0.94     |        | -5.97%                 | 6.38%                  |
| 512.0000   | 53.17       | 1.00       | 56.46    | 0.94     |        | -5.84%                 | 6.58%                  |
| 520.0000   | 53.43       | 1.02       | 56.43    | 0.95     |        | -5.32%                 | 7.37%                  |
| 530.0000   | 52.98       | 1.02       | 56.39    | 0.95     |        | -6.05%                 | 7.37%                  |
| 540.0000   | 53.03       | 1.04       | 56.35    | 0.95     |        | -5.89%                 | 9.47%                  |
| 550.0000   | 53.33       | 1.03       | 56.31    | 0.95     |        | -5.29%                 | 8.42%                  |

|                                                                                   |                                                     |                                                           |                                                          |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

\*\*\*\*\*

Aprel Laboratory  
 Test Result for UIM Dielectric Parameter  
 Mon 14/Sep/2015 11:35:53  
 Freq Frequency(GHz)  
 FCC\_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon  
 FCC\_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma  
 Test\_e Epsilon of UIM  
 Test\_s Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eHFCC_sH | Test_e | Test_s     |
|--------|--------------|--------|------------|
| 0.3500 | 44.70        | 0.87   | 46.21 0.78 |
| 0.3600 | 44.58        | 0.87   | 46.95 0.81 |
| 0.3700 | 44.46        | 0.87   | 45.57 0.81 |
| 0.3800 | 44.34        | 0.87   | 45.41 0.81 |
| 0.3900 | 44.22        | 0.87   | 44.57 0.82 |
| 0.4000 | 44.10        | 0.87   | 45.21 0.82 |
| 0.4100 | 43.98        | 0.87   | 45.31 0.84 |
| 0.4200 | 43.86        | 0.87   | 45.10 0.85 |
| 0.4300 | 43.74        | 0.87   | 44.78 0.84 |
| 0.4400 | 43.62        | 0.87   | 45.10 0.86 |
| 0.4500 | 43.50        | 0.87   | 44.66 0.88 |
| 0.4600 | 43.45        | 0.87   | 43.76 0.89 |
| 0.4700 | 43.40        | 0.87   | 44.00 0.89 |
| 0.4800 | 43.34        | 0.87   | 43.49 0.91 |
| 0.4900 | 43.29        | 0.87   | 43.39 0.91 |
| 0.5000 | 43.24        | 0.87   | 43.40 0.91 |
| 0.5100 | 43.19        | 0.87   | 42.81 0.93 |
| 0.5200 | 43.14        | 0.88   | 42.88 0.93 |
| 0.5300 | 43.08        | 0.88   | 42.29 0.94 |
| 0.5400 | 43.03        | 0.88   | 42.83 0.95 |
| 0.5500 | 42.98        | 0.88   | 42.17 0.97 |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

\*\*\*\*\*

Aprel Laboratory  
Test Result for UIM Dielectric Parameter  
Fri 18/Sep/2015 14:08:13  
Freq      Frequency(GHz)  
FCC\_eHFCC Bulletin 65 Supplement C ( June 2001) Limits for Head Epsilon  
FCC\_sHFCC Bulletin 65 Supplement C (June 2001) Limits for Head Sigma  
FCC\_eBFCC Limits for Body Epsilon  
FCC\_sBFCC Limits for Body Sigma  
Test\_e    Epsilon of UIM  
Test\_s    Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 0.3500 | 57.70  | 0.93   | 55.90  | 0.87   |
| 0.3600 | 57.60  | 0.93   | 55.74  | 0.88   |
| 0.3700 | 57.50  | 0.93   | 55.42  | 0.88   |
| 0.3800 | 57.40  | 0.93   | 55.44  | 0.88   |
| 0.3900 | 57.30  | 0.93   | 55.24  | 0.89   |
| 0.4000 | 57.20  | 0.93   | 54.64  | 0.91   |
| 0.4100 | 57.10  | 0.93   | 55.17  | 0.92   |
| 0.4200 | 57.00  | 0.94   | 55.11  | 0.93   |
| 0.4300 | 56.90  | 0.94   | 55.06  | 0.94   |
| 0.4400 | 56.80  | 0.94   | 54.27  | 0.95   |
| 0.4500 | 56.70  | 0.94   | 55.09  | 0.96   |
| 0.4600 | 56.66  | 0.94   | 54.06  | 0.98   |
| 0.4700 | 56.62  | 0.94   | 54.41  | 0.97   |
| 0.4800 | 56.58  | 0.94   | 54.05  | 0.97   |
| 0.4900 | 56.54  | 0.94   | 54.16  | 1.00   |
| 0.5000 | 56.51  | 0.94   | 54.20  | 1.00   |
| 0.5100 | 56.47  | 0.94   | 53.10  | 1.00   |
| 0.5200 | 56.43  | 0.95   | 53.43  | 1.02   |
| 0.5300 | 56.39  | 0.95   | 52.98  | 1.02   |
| 0.5400 | 56.35  | 0.95   | 53.03  | 1.04   |
| 0.5500 | 56.31  | 0.95   | 53.33  | 1.03   |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                              |                                                    |                                                   |                                                                                                                         |
|-----------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>Sep 14-21, 2015     | Test Report Serial No.<br>091015OWD-1332-S         | Test Report Revision No.<br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | Test Report Issue Date<br>September 30, 2015 | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled) |                                                                                                                         |

## 14.0 SYSTEM VERIFICATION TEST RESULTS

**Table 14.0**

| System Verification Test Results                                                                                                                                                                                                                              |        |           |                        |               |                     |                       |                            |                          |                           |            |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|------------------------|---------------|---------------------|-----------------------|----------------------------|--------------------------|---------------------------|------------|-----------|
| Date                                                                                                                                                                                                                                                          |        |           | Frequency<br><br>(MHz) | Fluid<br>Type | Fluid<br>Temp<br>°C | Ambient<br>Temp<br>°C | Ambient<br>Humidity<br>(%) | Forward<br>Power<br>(mW) | Dipole<br>Spacing<br>(mm) | Validation |           |
|                                                                                                                                                                                                                                                               |        |           |                        |               |                     |                       |                            |                          |                           | Source     |           |
|                                                                                                                                                                                                                                                               |        |           |                        |               |                     |                       |                            |                          |                           | P/N        | S/N       |
| 14 Sept 2015                                                                                                                                                                                                                                                  |        |           | 450                    | Head          | 21.4                | 24                    | 35%                        | 250                      | 15                        | D450V3     | 1068      |
| SAR                                                                                                                                                                                                                                                           |        |           |                        |               |                     | Fluid Parameters      |                            |                          |                           |            |           |
| 1 gram                                                                                                                                                                                                                                                        |        |           | 10 gram                |               |                     | Permittivity          |                            |                          | Conductivity              |            |           |
| Measured                                                                                                                                                                                                                                                      | Target | Deviation | Measured               | Target        | Deviation           | Measured              | Target                     | Deviation                | Measured                  | Target     | Deviation |
| 1.16                                                                                                                                                                                                                                                          | 1.16   | 0.00%     | 0.79                   | 0.78          | 2.06%               | 44.66                 | 43.50                      | 2.67%                    | 0.88                      | 0.87       | 1.15%     |
| Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a SPEAG validation dipole in accordance with the procedures described in IEEE 1528-2013, FCC KDB 846224 and IEC 62209-1. The dielectric parameters of the |        |           |                        |               |                     |                       |                            |                          |                           |            |           |

**Table 14.1**

| System Verification Test Results                                                                                                                                                                                                                              |        |                        |               |                     |                       |                            |                          |                           |                          |        |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------|---------------|---------------------|-----------------------|----------------------------|--------------------------|---------------------------|--------------------------|--------|-----------|
| Date                                                                                                                                                                                                                                                          |        | Frequency<br><br>(MHz) | Fluid<br>Type | Fluid<br>Temp<br>°C | Ambient<br>Temp<br>°C | Ambient<br>Humidity<br>(%) | Forward<br>Power<br>(mW) | Dipole<br>Spacing<br>(mm) | Validation<br><br>Source |        |           |
|                                                                                                                                                                                                                                                               |        |                        |               |                     |                       |                            |                          |                           | P/N                      |        | S/N       |
| 19 Sep 2015                                                                                                                                                                                                                                                   |        | 450                    | Body          | 24.0                | 23                    | 24%                        | 250                      | 15                        | D450V3                   |        | 1068      |
| SAR                                                                                                                                                                                                                                                           |        |                        |               |                     |                       | Fluid Parameters           |                          |                           |                          |        |           |
| 1 gram                                                                                                                                                                                                                                                        |        |                        | 10 gram       |                     |                       | Permittivity               |                          |                           | Conductivity             |        |           |
| Measured                                                                                                                                                                                                                                                      | Target | Deviation              | Measured      | Target              | Deviation             | Measured                   | Target                   | Deviation                 | Measured                 | Target | Deviation |
| 1.21                                                                                                                                                                                                                                                          | 1.12   | 8.04%                  | 0.82          | 0.74                | 11.52%                | 55.09                      | 56.70                    | -2.84%                    | 0.96                     | 0.94   | 2.13%     |
| Prior to the SAR evaluations, system checks were performed on the planar section of the phantom and a SPEAG validation dipole in accordance with the procedures described in IEEE 1528-2013, FCC KDB 846224 and IEC 62209-1. The dielectric parameters of the |        |                        |               |                     |                       |                            |                          |                           |                          |        |           |

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

## 15.0 MEASUREMENT SYSTEM SPECIFICATIONS

Table 15.0

| Measurement System Specification                |                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------|
| <u>Specifications</u>                           |                                                                                   |
| Positioner                                      | Stäubli Unimation Corp. Robot Model: RX60L                                        |
| Repeatability                                   | 0.02 mm                                                                           |
| No. of axis                                     | 6                                                                                 |
| <u>Data Acquisition Electronic (DAE) System</u> |                                                                                   |
| <u>Cell Controller</u>                          |                                                                                   |
| Processor                                       | AMD Athlon XP 2400+                                                               |
| Clock Speed                                     | 2.0 GHz                                                                           |
| Operating System                                | Windows XP Professional                                                           |
| <u>Data Converter</u>                           |                                                                                   |
| Features                                        | Signal Amplifier, multiplexer, A/D converter, and control logic                   |
| Software                                        | Measurement Software: DASY4, V4.7 Build 80                                        |
|                                                 | Postprocessing Software: SEMCAD, V1.8 Build 186                                   |
| Connecting Lines                                | Optical downlink for data and status info., Optical uplink for commands and clock |
| <u>DASY4 Measurement Server</u>                 |                                                                                   |
| Function                                        | Real-time data evaluation for field measurements and surface detection            |
| Hardware                                        | PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM                              |
| Connections                                     | COM1, COM2, DAE, Robot, Ethernet, Service Interface                               |
| <u>E-Field Probe</u>                            |                                                                                   |
| Model                                           | EX3DV4                                                                            |
| Serial No.                                      | 3600                                                                              |
| Construction                                    | Triangular core fiber optic detection system                                      |
| Frequency                                       | 10 MHz to 6 GHz                                                                   |
| Linearity                                       | ± 0.2dB (30MHz – 3GHz)                                                            |
| <u>Phantom</u>                                  |                                                                                   |
| Type                                            | ELI Elliptical Planar Phantom                                                     |
| Shell Material                                  | Fiberglass                                                                        |
| Thickness                                       | 2mm +/- .2mm                                                                      |
| Volume                                          | > 30 Liter                                                                        |

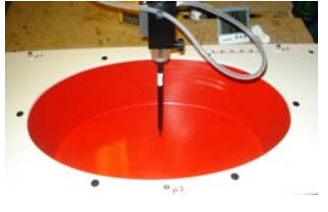
**Table 15.1**

## Measurement System Specification (Continued)

### Probe Specification

|                 |                                                                                                                                                          |                                                                                      |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Construction:   | Symmetrical design with triangular core;<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, glycol) |  |
| Calibration:    | In air from 10 MHz to 2.5 GHz<br>In head simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy $\pm 8\%$ )                                   |                                                                                      |
| Frequency:      | 10 MHz to > 6 GHz; Linearity: $\pm 0.2$ dB (30 MHz to 3 GHz)                                                                                             |                                                                                      |
| Directivity:    | $\pm 0.2$ dB in head tissue (rotation around probe axis)<br>$\pm 0.4$ dB in head tissue (rotation normal to probe axis)                                  |                                                                                      |
| Dynamic Range:  | 5 $\mu$ W/g to > 100 mW/g; Linearity: $\pm 0.2$ dB                                                                                                       |                                                                                      |
| Surface Detect: | $\pm 0.2$ mm repeatability in air and clear liquids over diffuse reflecting surfaces                                                                     |                                                                                      |
| Dimensions:     | Overall length: 330 mm; Tip length: 16 mm;<br>Body diameter: 12 mm; Tip diameter: 6.8 mm<br><br>Distance from probe tip to dipole centers: 2.7 mm        |                                                                                      |
| Application:    | General dosimetry up to 3 GHz; Compliance tests of mobile phone                                                                                          | <b>EX3DV4 E-Field Probe</b>                                                          |

### Phantom Specification

|                                                                                                                                                                                                                                         |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| The ELI V5.0 phantom is an elliptical planar fiberglass shell phantom with a shell thickness of 2.0mm +/- .2mm at the planar area. This phantom conforms to OET Bulletin 65, Supplement C, IEEE 1528-2013, IEC 62209-1 and IEC 62209-2. |  |
|                                                                                                                                                                                                                                         | <b>ELI Elliptical Planar Phantom</b>                                                  |

### Device Positioner Specification

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| The DASY4 device positioner has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of $65^\circ$ . The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Device Positioner</b>                                                              |

|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## 16.0 TEST EQUIPMENT LIST

Table 16.0

### Test Equipment List

| DESCRIPTION                              | ASSET NO. | SERIAL NO. | DATE CALIBRATED | CALIBRATION INTERVAL |
|------------------------------------------|-----------|------------|-----------------|----------------------|
| Schmid & Partner DASY4 System            | -         | -          | -               | -                    |
| -DASY4 Measurement Server                | 00158     | 1078       | CNR             | CNR                  |
| -Robot                                   | 00046     | 599396-01  | CNR             | CNR                  |
| -DAE4                                    | 00019     | 353        | 9 April 2014    | Biennial             |
| -DAE3                                    | 00018     | 370        | 23 April 2015   | Biennial             |
| -EX3DV6 E-Field Probe                    | 00017     | 3600       | 23 April 2015   | Annual               |
| -D450V3 Validation Dipole                | 00221     | 1068       | 21 April 2015   | Triennial            |
| ELI Elliptical Planar Phantom            | 00247     | -          | CNR             | CNR                  |
| HP 85070C Dielectric Probe Kit           | 00033     | none       | CNR             | CNR                  |
| Gigatronics 8652A Power Meter            | 00110     | 1835801    | 17 March 2014   | Biennial             |
| Gigatronics 80701A Power Sensor          | 00249     | 1834473    | 17 March 2014   | Biennial             |
| Gigatronics 80701A Power Sensor          | 00248     | 1833687    | 17 March 2014   | Biennial             |
| HP 8753ET Network Analyzer               | 00134     | US39170292 | 22 Oct 2014     | Biennial             |
| Rohde & Schwarz SMR20 Signal Generator   | 00006     | 100104     | 8 May 2014      | Biennial             |
| Amplifier Research 5S1G4 Power Amplifier | 00106     | 26235      | CNR             | CNR                  |

CNR = Calibration Not Required

|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## APPENDIX A - SAR MEASUREMENT PLOTS

### Plot F1

Date/Time: 14/09/2015 2:08:51 PM

450 Head 14 Sep 2015

DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: **Not Specified**

Program Notes: 14 Sep 2015 Ambient Temp: 24C; Fluid Temp: 21.4C; Humidity: 35%

Procedure Notes:

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used:  $f = 440 \text{ MHz}$ ;  $\sigma = 0.86 \text{ mho/m}$ ;  $\epsilon_r = 45.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F1 Head XG-15-UHF, 440MHz 1219/12, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.07 mW/g

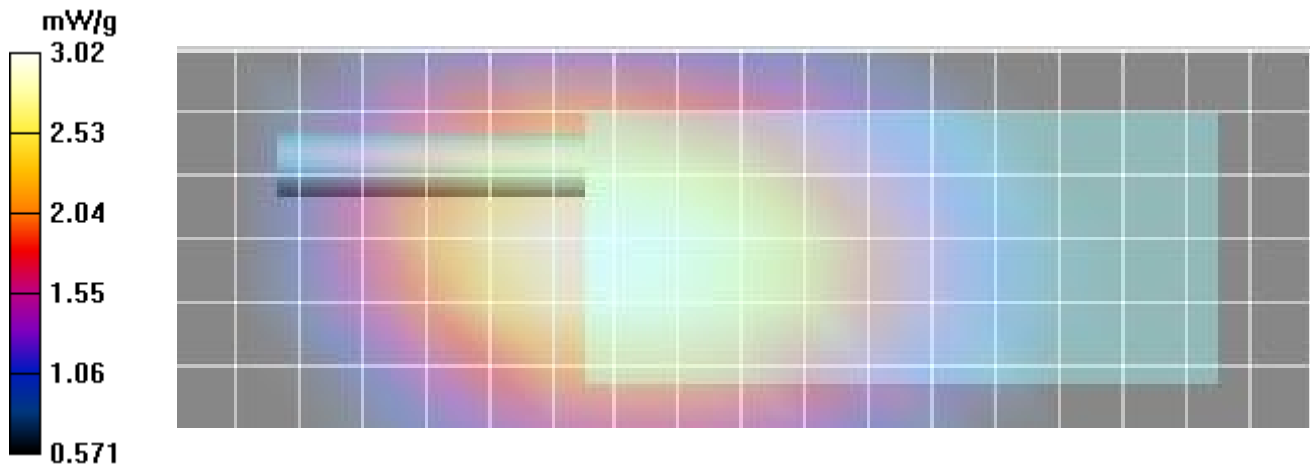
**F1 Head XG-15-UHF, 440MHz 1219/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 59.9 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 3.62 W/kg

**SAR(1 g) = 2.88 mW/g; SAR(10 g) = 2.2 mW/g**

Maximum value of SAR (measured) = 3.02 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F2

Date/Time: 14/09/2015 2:31:40 PM

### 450 Head 14 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 14 Sep 2015 Ambient Temp: 24C; Fluid Temp: 21.4C; Humidity: 35%

#### Procedure Notes:

Communication System: CW

Frequency: 459 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 459 \text{ MHz}$ ;  $\sigma = 0.889 \text{ mho/m}$ ;  $\epsilon_r = 43.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F2 Head XG-15-UHF, 459MHz 1219/12, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.91 mW/g

**F2 Head XG-15-UHF, 459MHz 1219/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

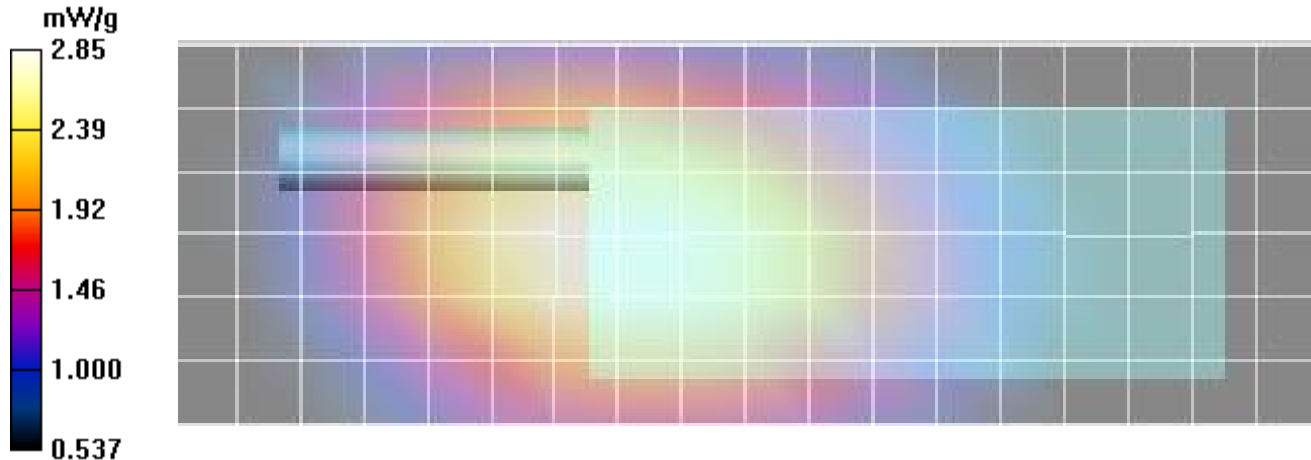
Reference Value = 58.6 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 3.39 W/kg

**SAR(1 g) = 2.71 mW/g; SAR(10 g) = 2.08 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.85 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F3

Date/Time: 16/09/2015 9:29:32 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.902 \text{ mho/m}$ ;  $\epsilon_r = 43.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F3 Head XG-15-UHF, 476MHz, 1219/12, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.63 mW/g

**F3 Head XG-15-UHF, 476MHz, 1219/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

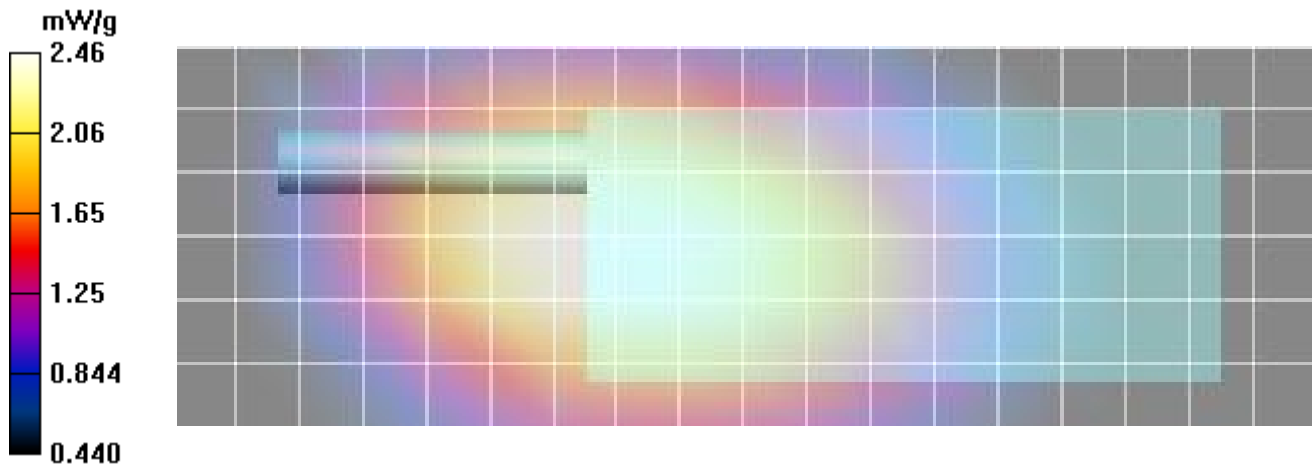
Reference Value = 56.1 V/m; Power Drift = -0.124 dB

Peak SAR (extrapolated) = 2.97 W/kg

**SAR(1 g) = 2.34 mW/g; SAR(10 g) = 1.77 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.46 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

## Plot F4

Date/Time: 16/09/2015 9:46:45 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F4 Head XG-15-UHF, 494MHz, 1219/12, -23436/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.86 mW/g

**F4 Head XG-15-UHF, 494MHz, 1219/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

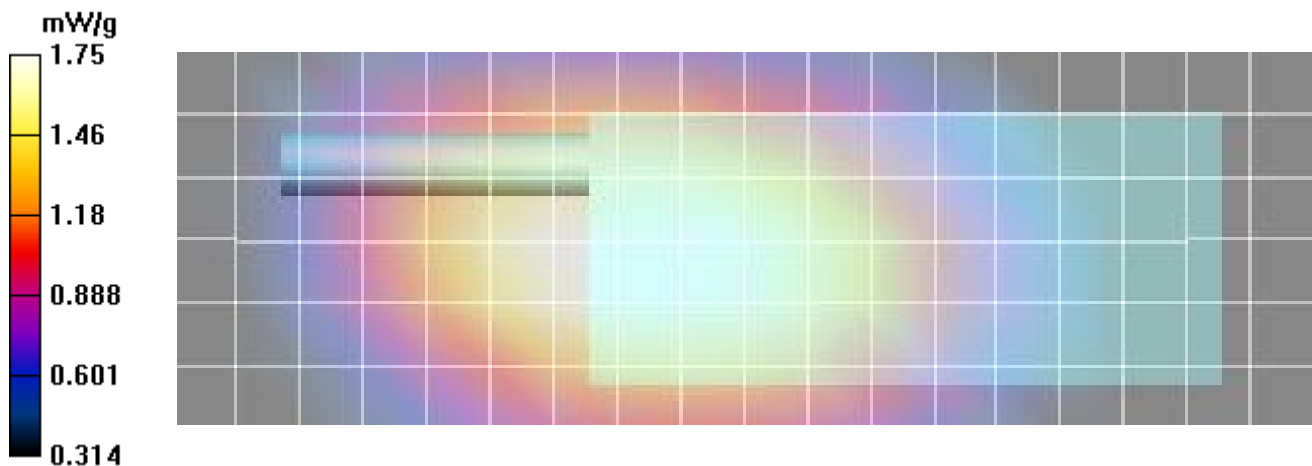
Reference Value = 46.6 V/m; Power Drift = -0.146 dB

Peak SAR (extrapolated) = 2.11 W/kg

**SAR(1 g) = 1.67 mW/g; SAR(10 g) = 1.27 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.75 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F5

Date/Time: 16/09/2015 10:14:13 AM

### 450 Head 16 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.89 \text{ mho/m}$ ;  $\epsilon_r = 44$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F5 Head XG-15-UHF, 470MHz, 1219/14, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.92 mW/g

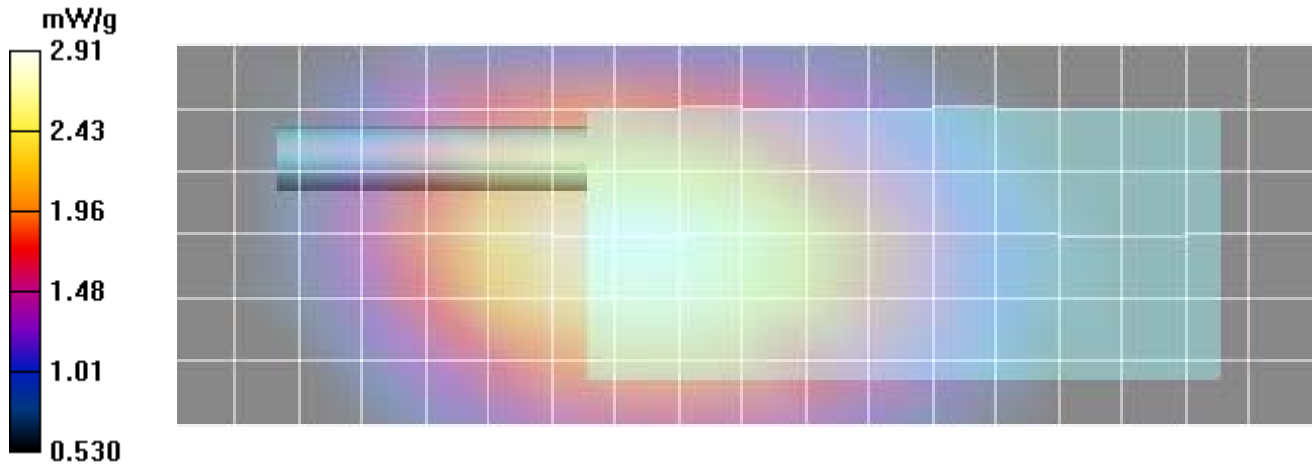
**F5 Head XG-15-UHF, 470MHz, 1219/14, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.8 V/m; Power Drift = 0.206 dB

Peak SAR (extrapolated) = 3.53 W/kg

**SAR(1 g) = 2.79 mW/g; SAR(10 g) = 2.13 mW/g**

Maximum value of SAR (measured) = 2.91 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

## Plot F6

Date/Time: 16/09/2015 10:47:22 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.902 \text{ mho/m}$ ;  $\epsilon_r = 43.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F6 Head XG-15-UHF, 476MHz, 1219/14, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.43 mW/g

**F6 Head XG-15-UHF, 476MHz, 1219/14, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

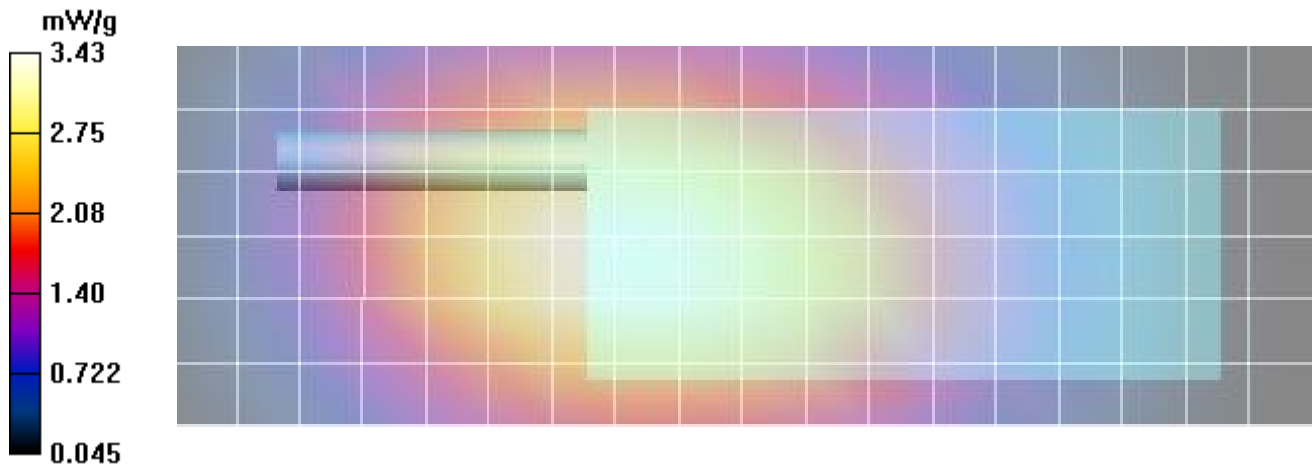
Reference Value = 62.0 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 4.35 W/kg

**SAR(1 g) = 3.41 mW/g; SAR(10 g) = 2.56 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.59 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F7

Date/Time: 16/09/2015 11:06:03 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F7 Head XG-15-UHF, 494MHz, 1219/14, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.43 mW/g

**F7 Head XG-15-UHF, 494MHz, 1219/14, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

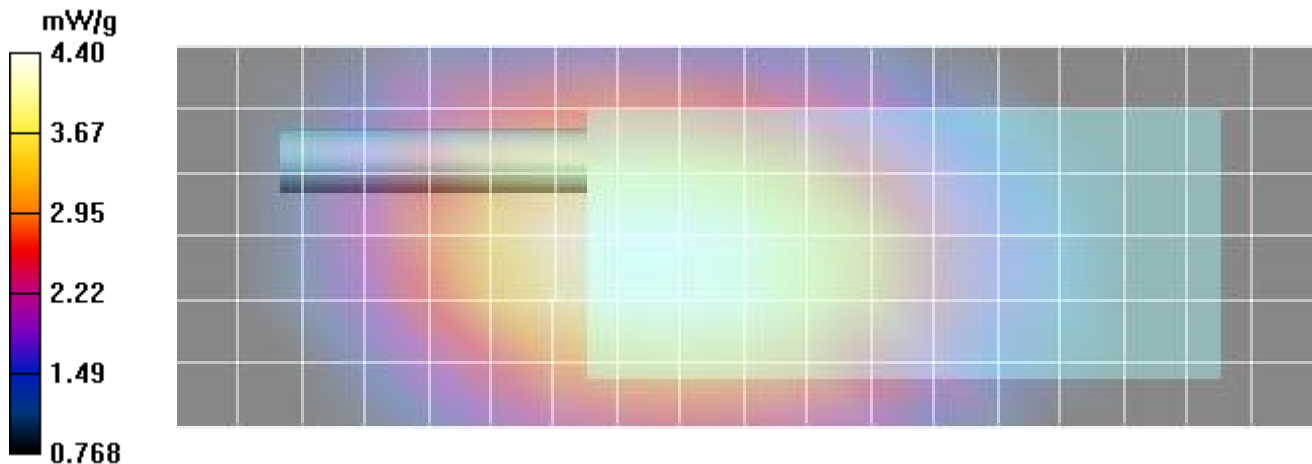
Reference Value = 70.6 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 5.31 W/kg

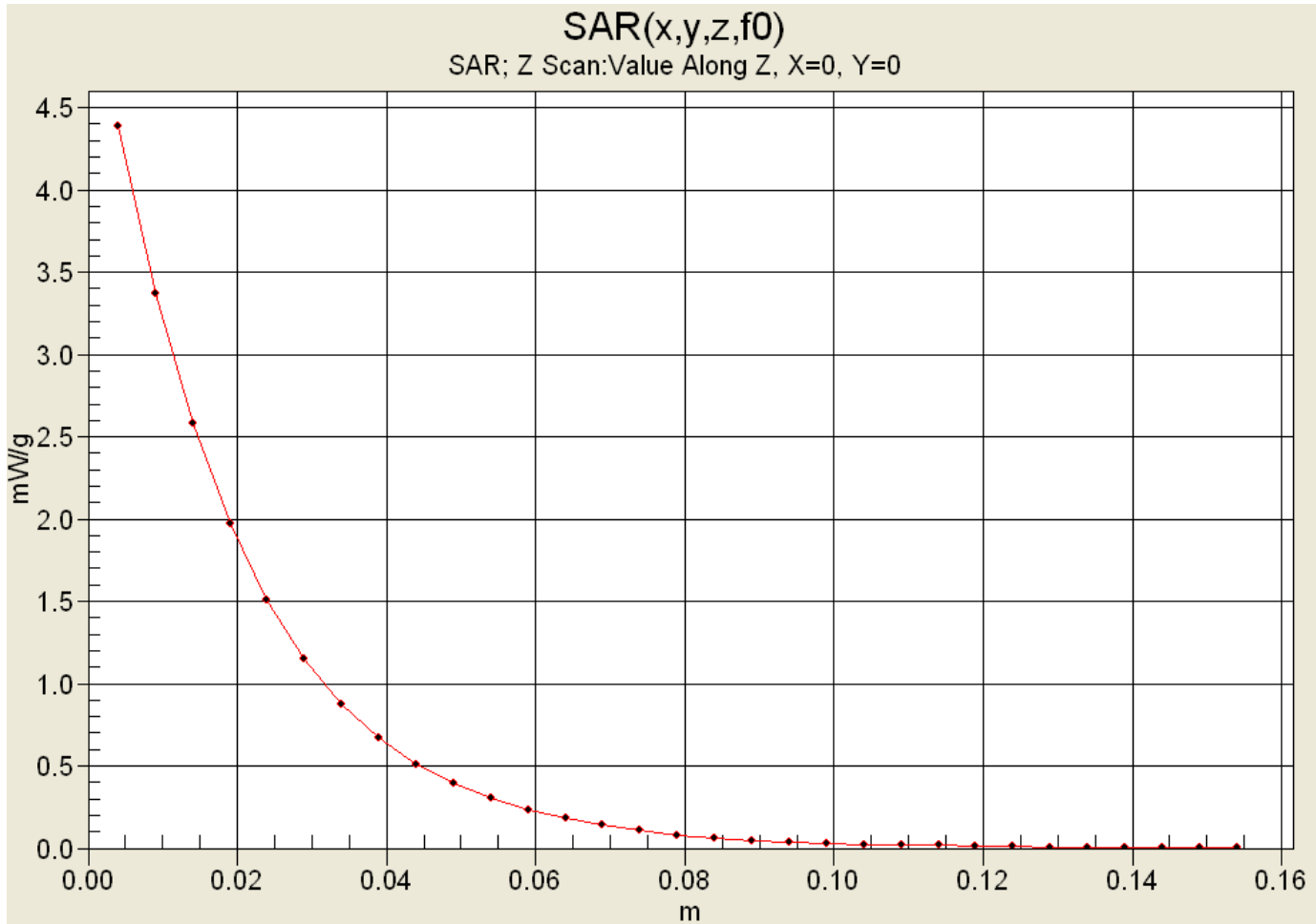
**SAR(1 g) = 4.19 mW/g; SAR(10 g) = 3.17 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.40 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F8

Date/Time: 16/09/2015 11:22:37 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 42.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F8 Head XG-15-UHF, 512MHz, 1219/14, -23436/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.12 mW/g

**F8 Head XG-15-UHF, 512MHz, 1219/14, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

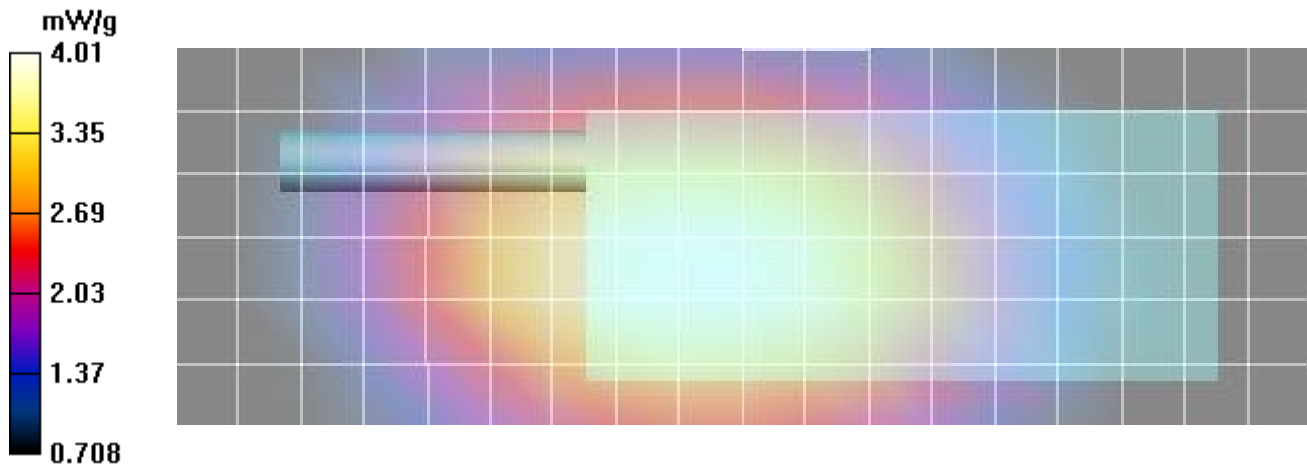
Reference Value = 66.1 V/m; Power Drift = -1.344 dB

Peak SAR (extrapolated) = 4.83 W/kg

**SAR(1 g) = 3.81 mW/g; SAR(10 g) = 2.87 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.01 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F9

Date/Time: 16/09/2015 11:47:10 AM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used:  $f = 440 \text{ MHz}$ ;  $\sigma = 0.86 \text{ mho/m}$ ;  $\epsilon_r = 45.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F9 Head XG-15-UHF, 440MHz, 1223/12, -23436/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 3.01 mW/g

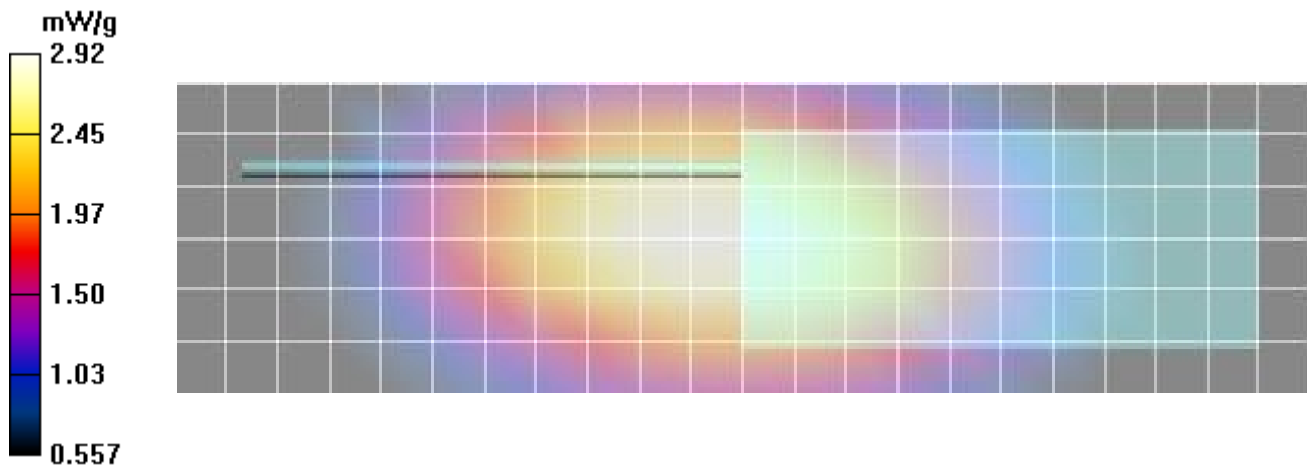
**F9 Head XG-15-UHF, 440MHz, 1223/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 60.1 V/m; Power Drift = -0.184 dB

Peak SAR (extrapolated) = 3.52 W/kg

**SAR(1 g) = 2.79 mW/g; SAR(10 g) = 2.12 mW/g**

Maximum value of SAR (measured) = 2.92 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

Test Lab Certificate No. 2470.01

## Plot F10

Date/Time: 16/09/2015 12:13:51 PM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 459 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 459 \text{ MHz}$ ;  $\sigma = 0.889 \text{ mho/m}$ ;  $\epsilon_r = 43.9$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F10 Head XG-15-UHF, 459MHz, 1223/12, -23436/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.35 mW/g

**F10 Head XG-15-UHF, 459MHz, 1223/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

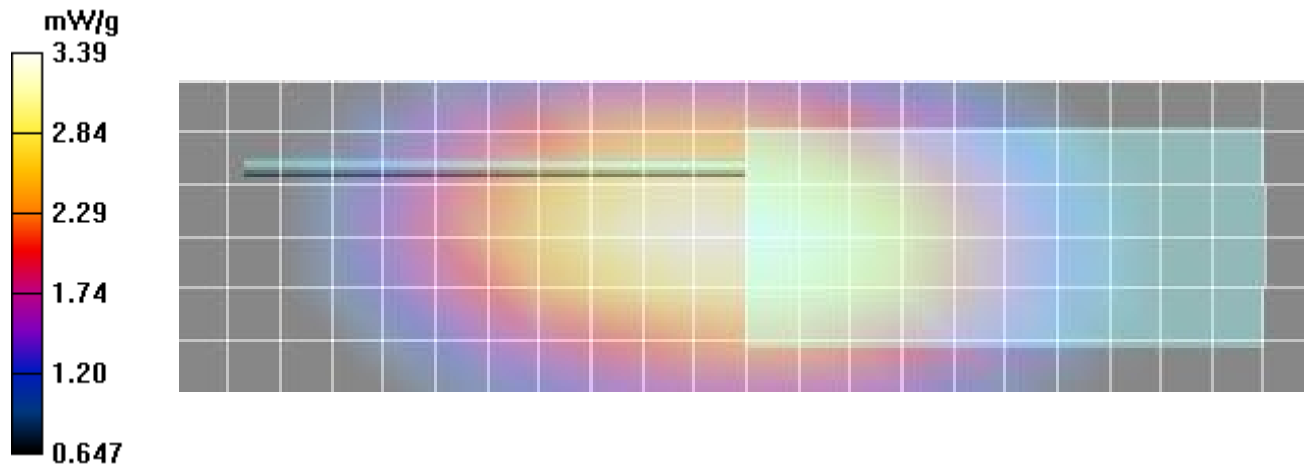
Reference Value = 61.9 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 4.09 W/kg

**SAR(1 g) = 3.23 mW/g; SAR(10 g) = 2.45 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.39 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F11

Date/Time: 16/09/2015 12:38:14 PM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.902 \text{ mho/m}$ ;  $\epsilon_r = 43.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F11 Head XG-15-UHF, 476MHz, 1223/12, -23436/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.32 mW/g

**F11 Head XG-15-UHF, 476MHz, 1223/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 61.4 V/m; Power Drift = -0.084 dB

Peak SAR (extrapolated) = 3.96 W/kg

**SAR(1 g) = 3.14 mW/g; SAR(10 g) = 2.39 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 3.29 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F12

Date/Time: 16/09/2015 12:57:42 PM

### 450 Head 16 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F12 Head XG-15-UHF, 494MHz, 1223/12, -23436/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.81 mW/g

**F12 Head XG-15-UHF, 494MHz, 1223/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

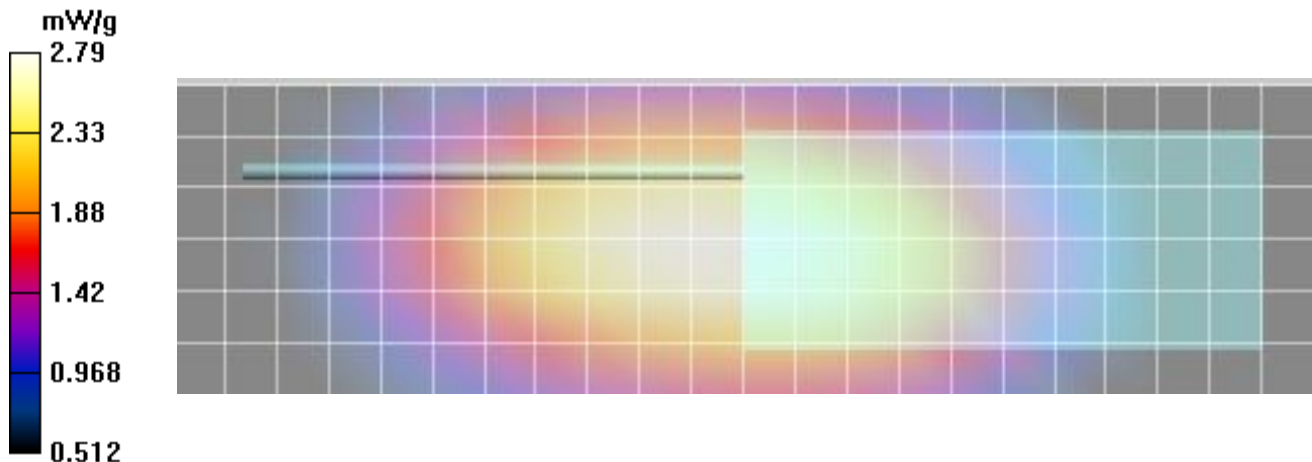
Reference Value = 56.6 V/m; Power Drift = -0.167 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 2.66 mW/g; SAR(10 g) = 2.02 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.79 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |
|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |

## Plot F13

Date/Time: 16/09/2015 1:28:00 PM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 0.93 \text{ mho/m}$ ;  $\epsilon_r = 42.8$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F13 Head XG-15-UHF, 512MHz, 1223/12, -23436/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.89 mW/g

**F13 Head XG-15-UHF, 512MHz, 1223/12, -23436/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

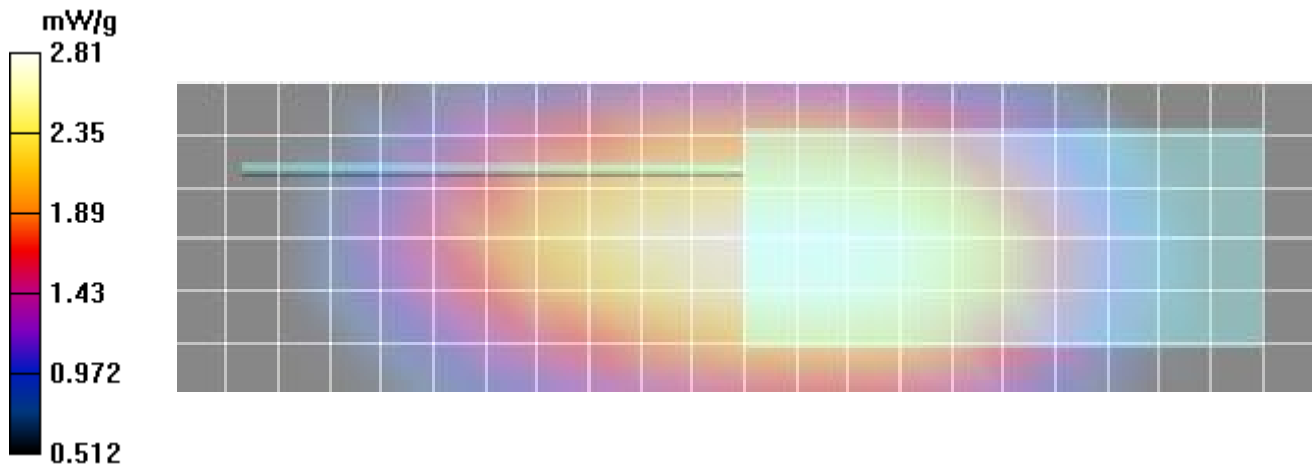
Reference Value = 56.4 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 2.68 mW/g; SAR(10 g) = 2.04 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.81 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F14

Date/Time: 16/09/2015 2:22:43 PM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F14 Head XG-15-UHF, 494MHz, 1219/14, -23406/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.58 mW/g

**F14 Head XG-15-UHF, 494MHz, 1219/14, -23406/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

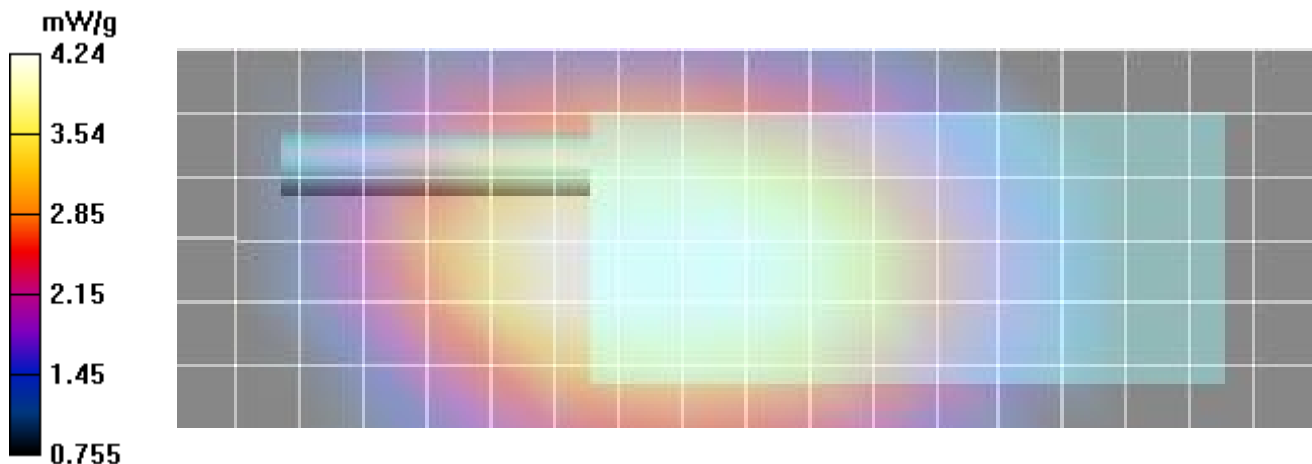
Reference Value = 72.8 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 5.11 W/kg

**SAR(1 g) = 4.04 mW/g; SAR(10 g) = 3.07 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.24 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |

## Plot F15

Date/Time: 16/09/2015 2:44:20 PM

**450 Head 16 Sep 2015**

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F15 Head XG-15-UHF, 494MHz, 1219/14, -0214/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.69 mW/g

**F15 Head XG-15-UHF, 494MHz, 1219/14, -0214/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

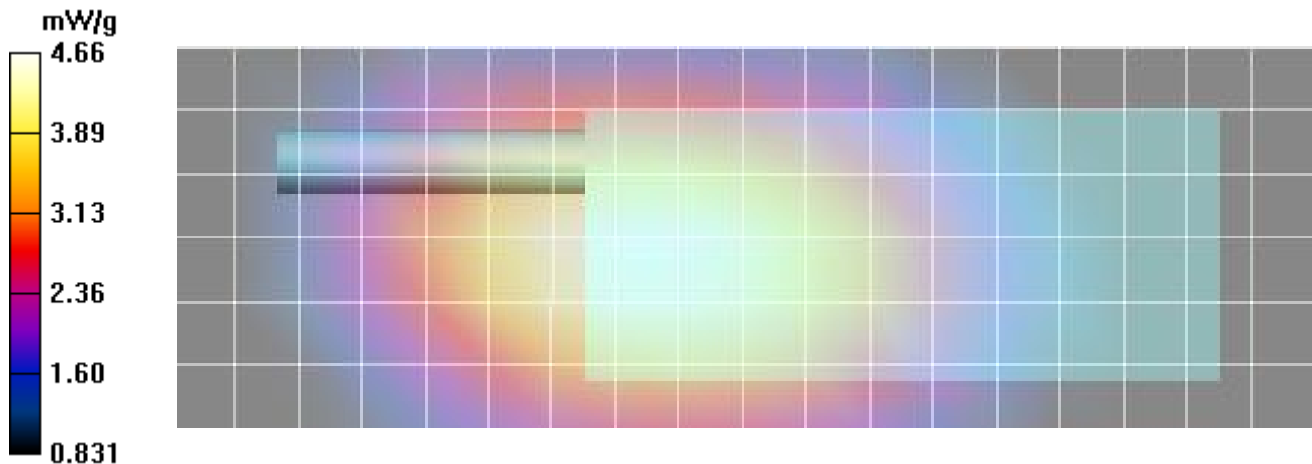
Reference Value = 72.5 V/m; Power Drift = -0.170 dB

Peak SAR (extrapolated) = 5.61 W/kg

**SAR(1 g) = 4.44 mW/g; SAR(10 g) = 3.36 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.66 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot F16

Date/Time: 16/09/2015 3:03:15 PM

### 450 Head 16 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F16 Head XG-15-UHF, 494MHz, 1219/14, -0214, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.08 mW/g

**F16 Head XG-15-UHF, 494MHz, 1219/14, -0214, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

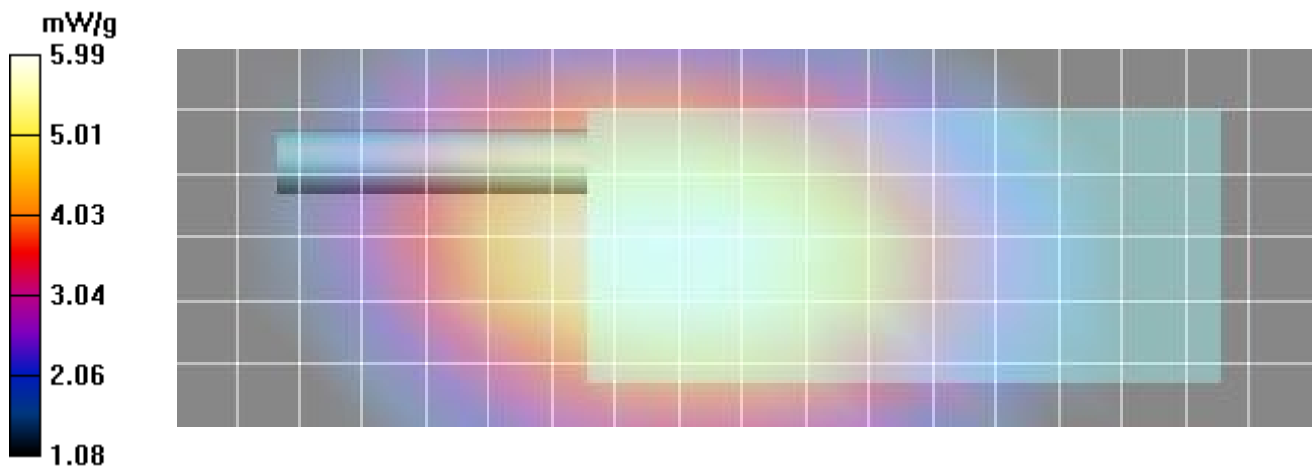
Reference Value = 80.9 V/m; Power Drift = -0.198 dB

Peak SAR (extrapolated) = 7.24 W/kg

**SAR(1 g) = 5.71 mW/g; SAR(10 g) = 4.31 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.99 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |
| Test Lab Certificate No. 2470.01                                                  |                                                     |                                                           |                                                          |                                                                                     |

## Plot F17

Date/Time: 16/09/2015 3:40:21 PM

### 450 Head 16 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 16 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.2C; Humidity: 25%

Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 0.91 \text{ mho/m}$ ;  $\epsilon_r = 43.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**F17 Head XG-15-UHF, 494MHz, 1219/14, -0214, GPS/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.70 mW/g

**F17 Head XG-15-UHF, 494MHz, 1219/14, -0214, GPS/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

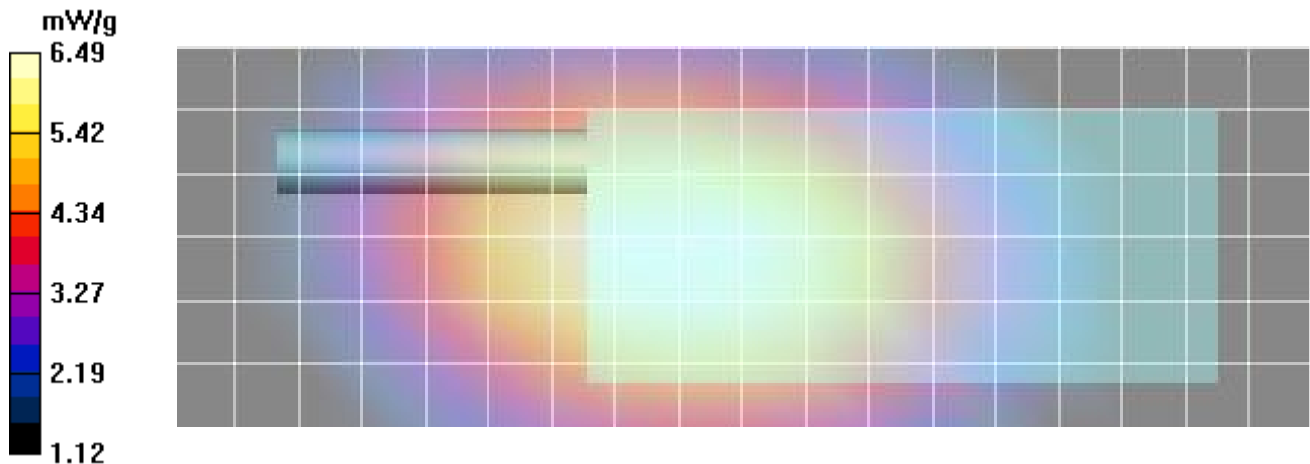
Reference Value = 84.1 V/m; Power Drift = -0.195 dB

Peak SAR (extrapolated) = 7.77 W/kg

**SAR(1 g) = 6.19 mW/g; SAR(10 g) = 4.70 mW/g**

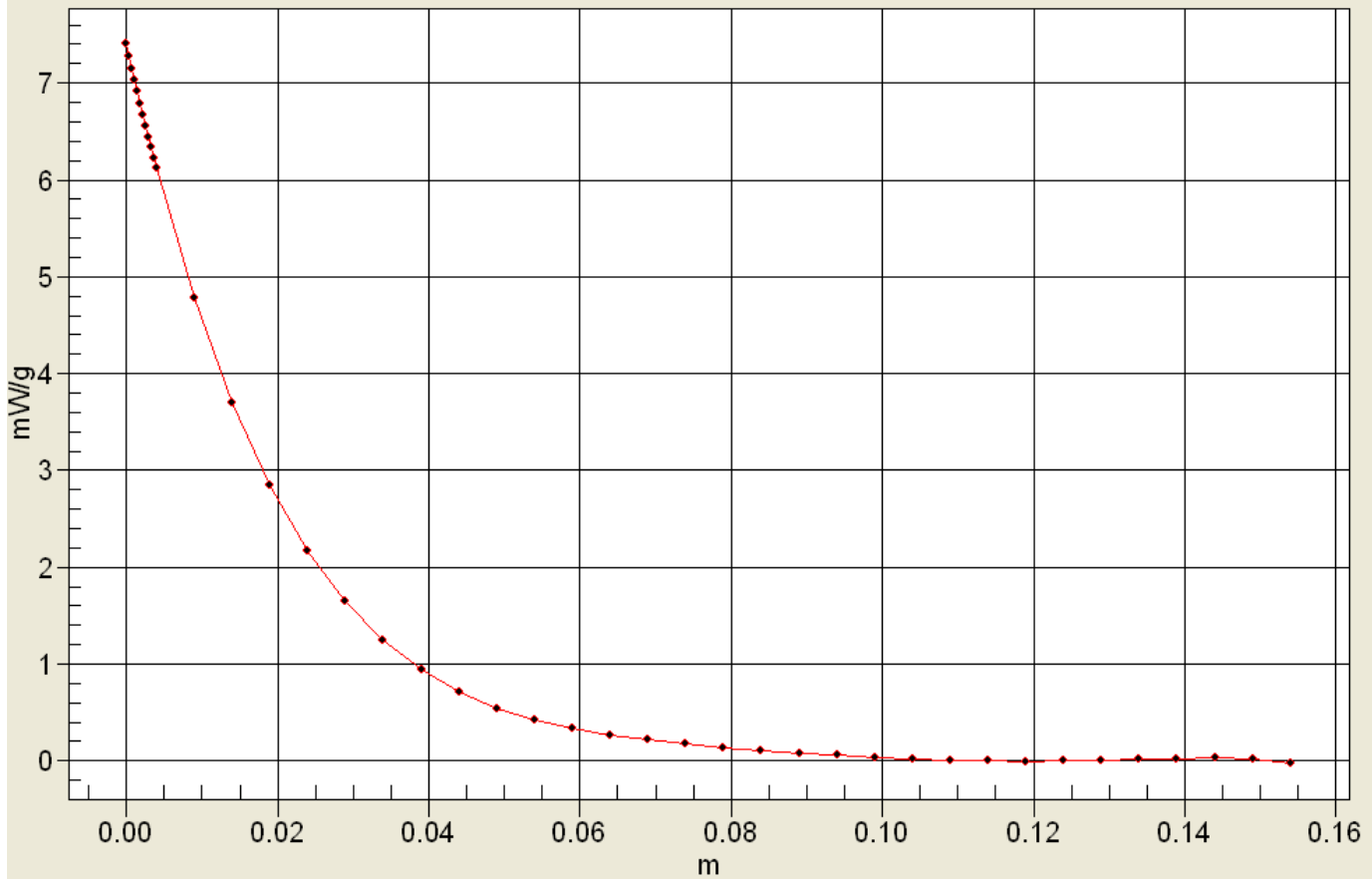
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.49 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B1

Date/Time: 19/09/2015 12:15:22 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used:  $f = 440 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 54.3$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used)) Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

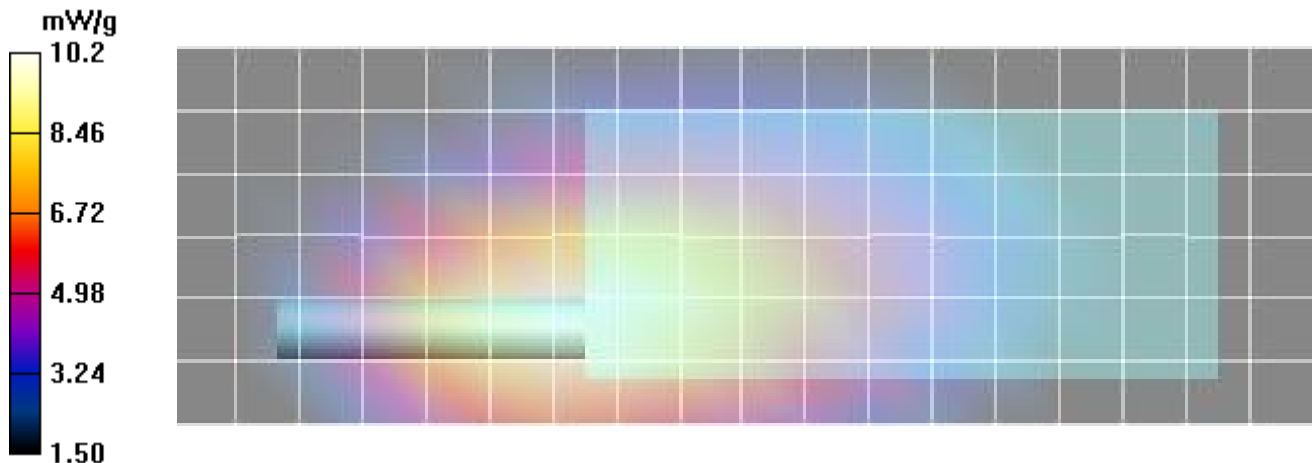
**B1 Body XG-15-UHF, 440MHz, 1219/12, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 10.2 mW/g

**B1 Body XG-15-UHF, 440MHz, 1219/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 94.0 V/m; Power Drift = -0.093 dB

Peak SAR (extrapolated) = 13.0 W/kg

**SAR(1 g) = 9.64 mW/g; SAR(10 g) = 7.05 mW/g**



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B2

Date/Time: 19/09/2015 12:38:03 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 459 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 459 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B2 Body XG-15-UHF, 459MHz, 1219/12, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.89 mW/g

**B2 Body XG-15-UHF, 459MHz, 1219/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

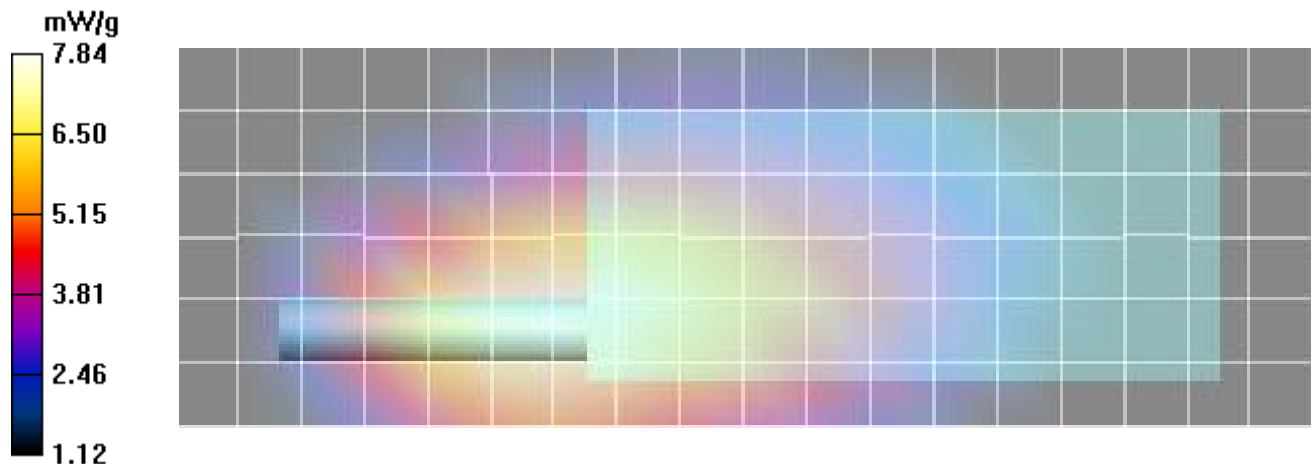
Reference Value = 82.0 V/m; Power Drift = -0.165 dB

Peak SAR (extrapolated) = 10.1 W/kg

**SAR(1 g) = 7.43 mW/g; SAR(10 g) = 5.39 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.84 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B3

Date/Time: 19/09/2015 1:32:13 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B3 Body XG-15-UHF, 476MHz, 1219/12, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.90 mW/g

**B3 Body XG-15-UHF, 476MHz, 1219/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

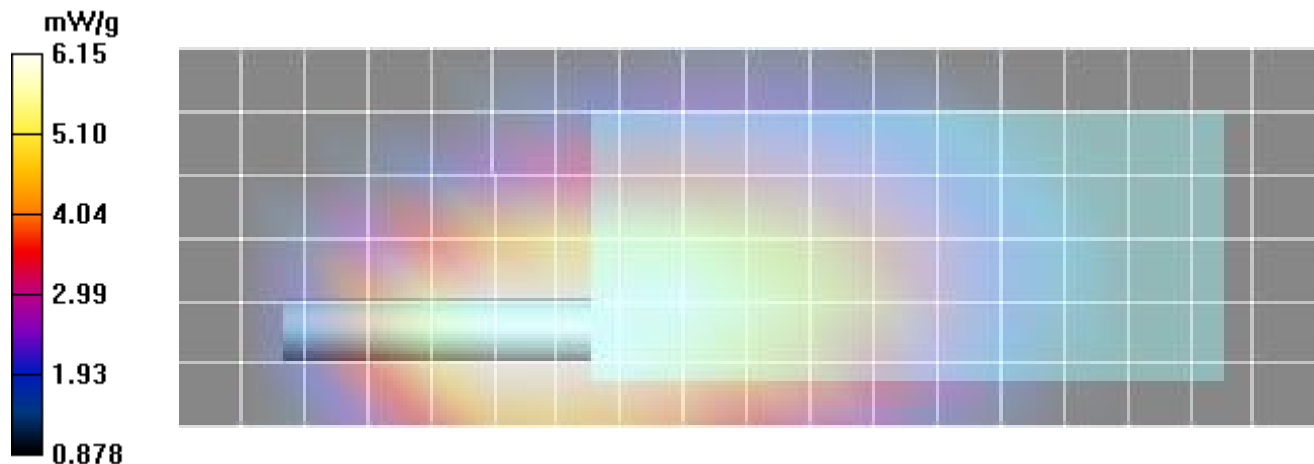
Reference Value = 79.2 V/m; Power Drift = -0.106 dB

Peak SAR (extrapolated) = 7.93 W/kg

**SAR(1 g) = 5.83 mW/g; SAR(10 g) = 4.23 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 6.15 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B4

Date/Time: 19/09/2015 1:53:31 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B4 Body XG-15-UHF, 494MHz, 1219/12, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.20 mW/g

**B4 Body XG-15-UHF, 494MHz, 1219/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

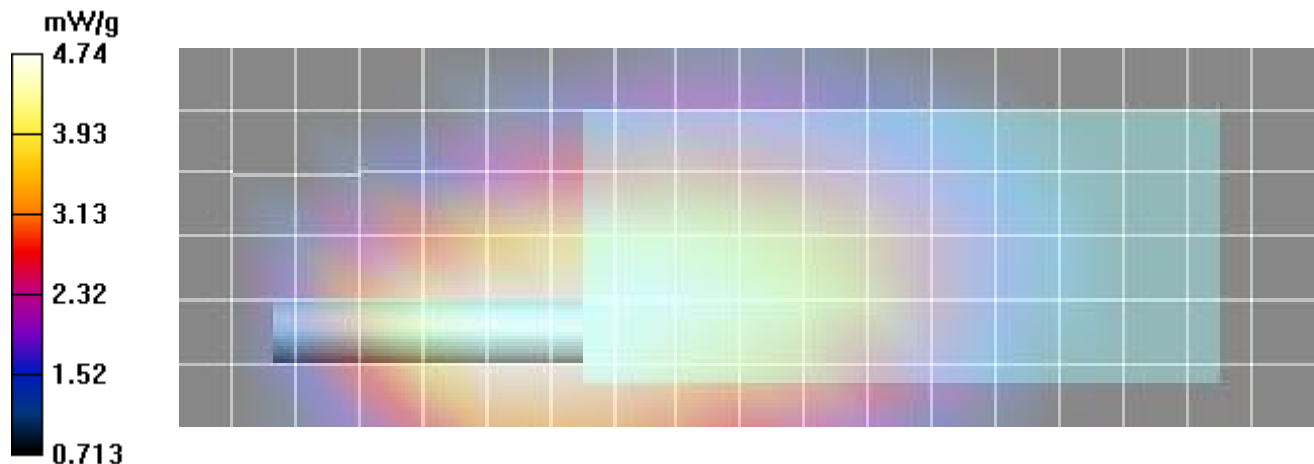
Reference Value = 67.4 V/m; Power Drift = -0.194 dB

Peak SAR (extrapolated) = 6.10 W/kg

**SAR(1 g) = 4.5 mW/g; SAR(10 g) = 3.28 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 4.74 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B5

Date/Time: 19/09/2015 2:22:02 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 470 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used:  $f = 470 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.4$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B5 Body XG-15-UHF, 470MHz, 1219/14, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 9.77 mW/g

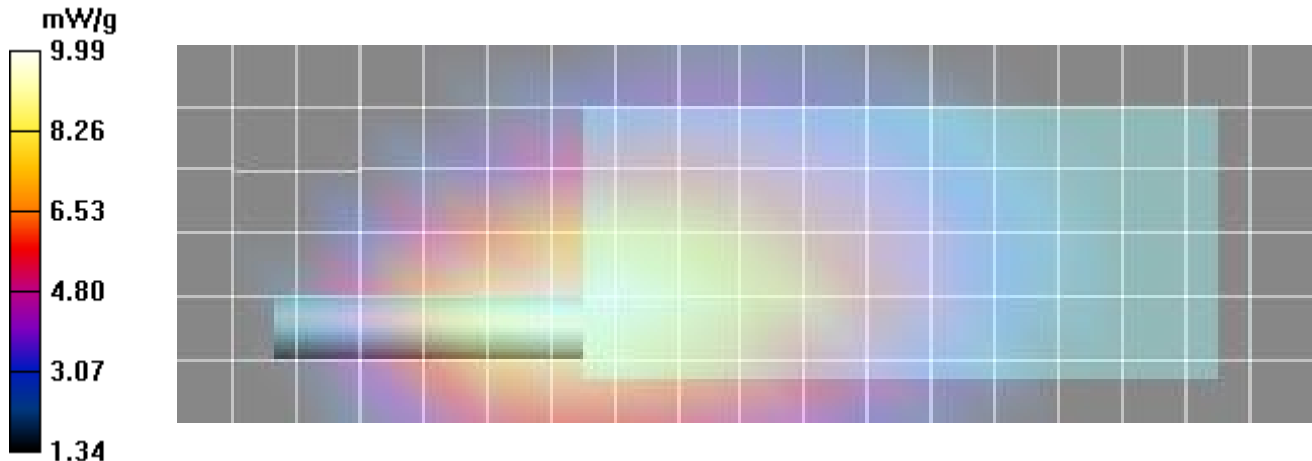
**B5 Body XG-15-UHF, 470MHz, 1219/14, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 89.9 V/m; Power Drift = 0.123 dB

Peak SAR (extrapolated) = 12.8 W/kg

**SAR(1 g) = 9.45 mW/g; SAR(10 g) = 6.83 mW/g**

Maximum value of SAR (measured) = 9.99 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |
|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |

## Plot B6

Date/Time: 19/09/2015 2:42:56 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B6 Body XG-15-UHF, 476MHz, 1219/14, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.6 mW/g

**B6 Body XG-15-UHF, 476MHz, 1219/14, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

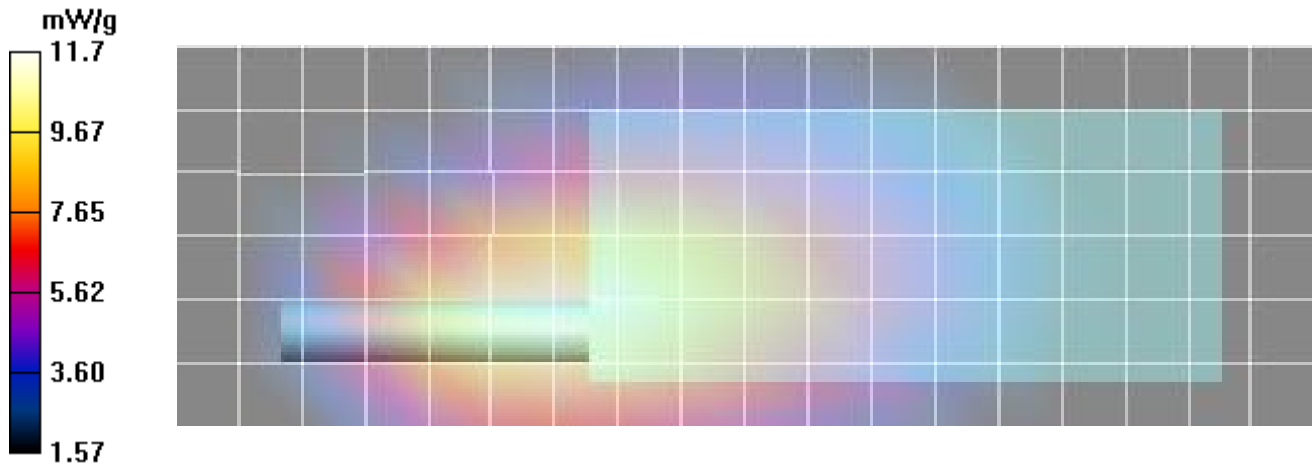
Reference Value = 99.8 V/m; Power Drift = 0.024 dB

Peak SAR (extrapolated) = 15.1 W/kg

**SAR(1 g) = 11.1 mW/g; SAR(10 g) = 7.98 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

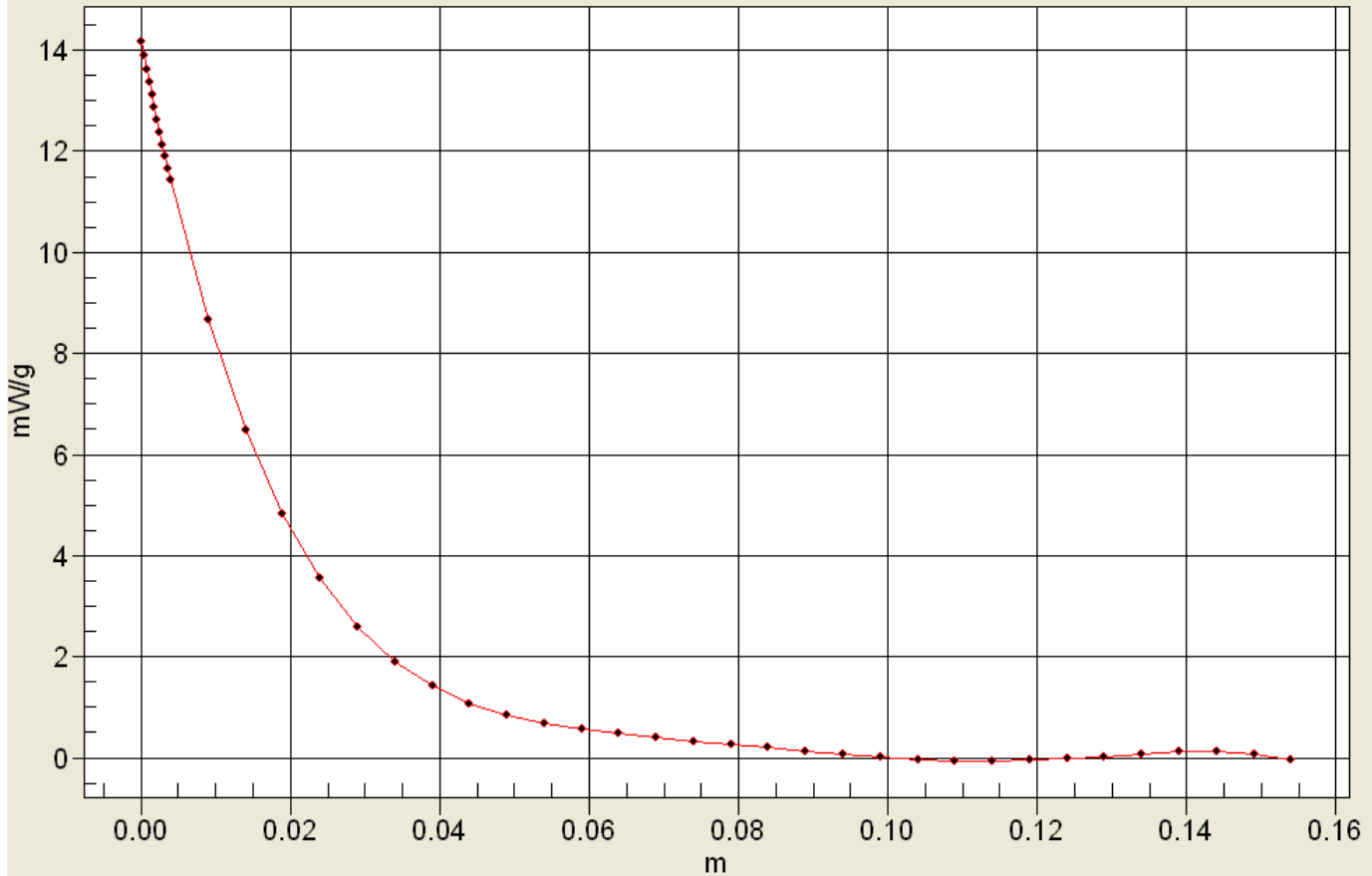
Maximum value of SAR (measured) = 11.7 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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### Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B7

Date/Time: 19/09/2015 3:09:09 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B7 Body XG-15-UHF, 494MHz, 1219/14, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.7 mW/g

**B7 Body XG-15-UHF, 494MHz, 1219/14, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

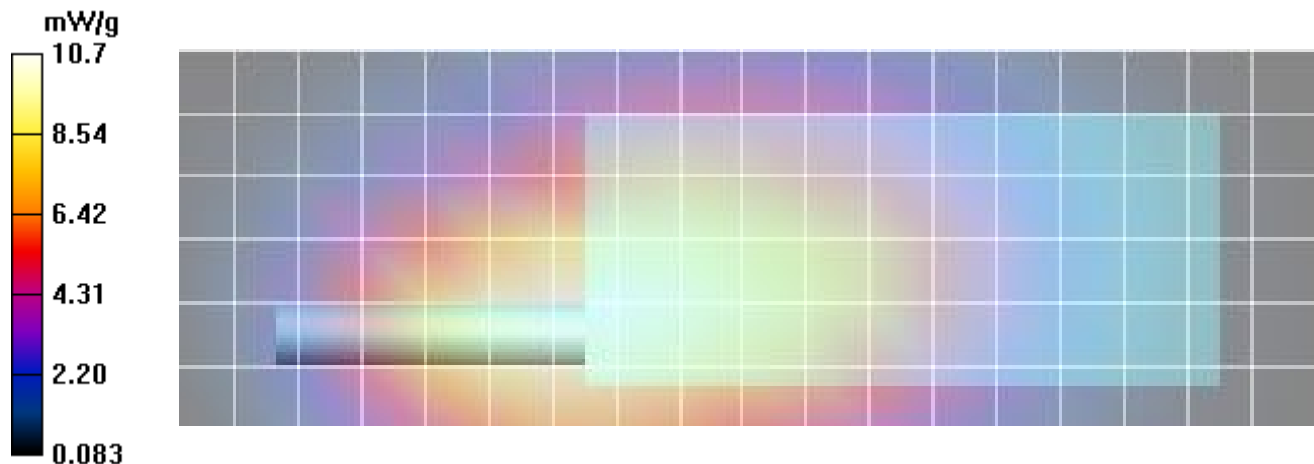
Reference Value = 98.4 V/m; Power Drift = -0.202 dB

Peak SAR (extrapolated) = 13.1 W/kg

**SAR(1 g) = 9.67 mW/g; SAR(10 g) = 7.07 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 10.2 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B8

Date/Time: 19/09/2015 3:32:05 PM

### 450 Body 19 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 19 Sep 2015 Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 53.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B8 Body XG-15-UHF, 512MHz, 1219/14, -0214, T-Strap, BT/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.85 mW/g

**B8 Body XG-15-UHF, 512MHz, 1219/14, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

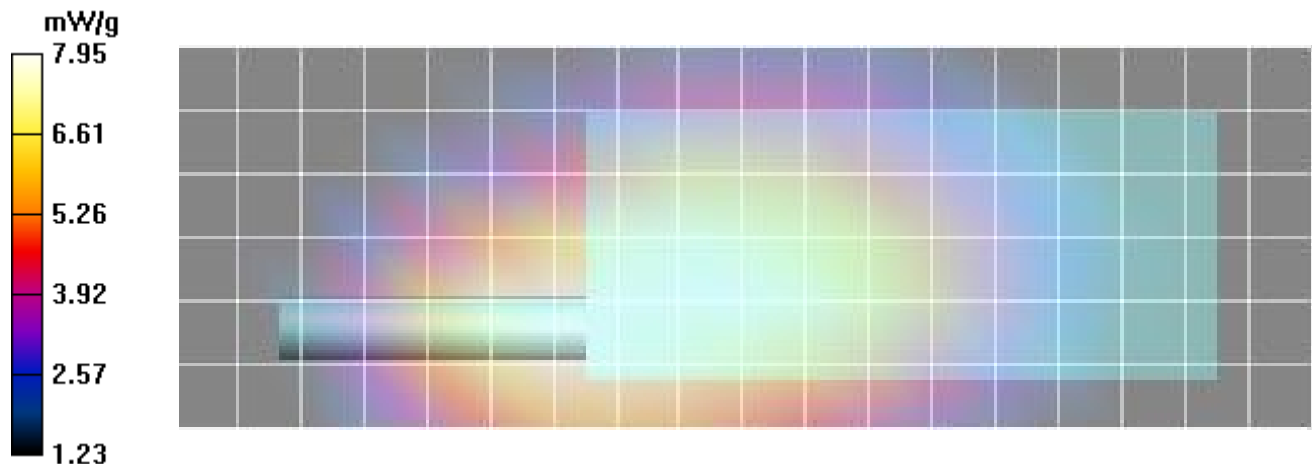
Reference Value = 85.9 V/m; Power Drift = -0.161 dB

Peak SAR (extrapolated) = 10.4 W/kg

**SAR(1 g) = 7.6 mW/g; SAR(10 g) = 5.59 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.95 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B9

Date/Time: 20/09/2015 8:58:18 AM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 440 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used:  $f = 440 \text{ MHz}$ ;  $\sigma = 0.95 \text{ mho/m}$ ;  $\epsilon_r = 54.3$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B9 Body EU XG-15-UHF, 440MHz, 1223/12, -0214, T-Strap, BT/Area Scan (7x23x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$   
Maximum value of SAR (measured) = 7.99 mW/g

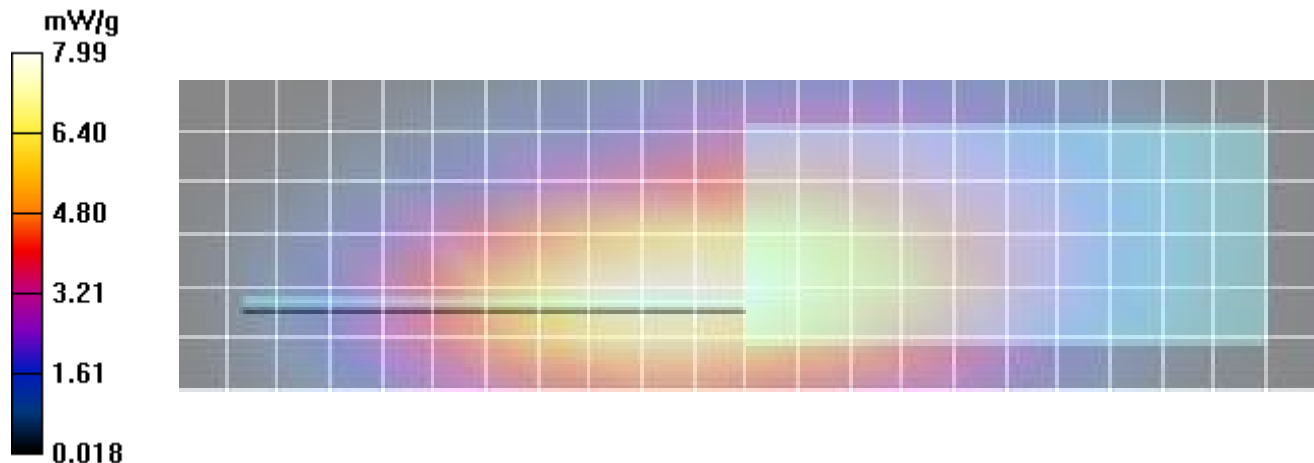
**B9 Body EU XG-15-UHF, 440MHz, 1223/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 81.8 V/m; Power Drift = -0.126 dB

Peak SAR (extrapolated) = 10.3 W/kg

**SAR(1 g) = 7.58 mW/g; SAR(10 g) = 5.48 mW/g**

Maximum value of SAR (measured) = 8.02 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B10

Date/Time: 20/09/2015 9:23:36 AM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 459 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 459 \text{ MHz}$ ;  $\sigma = 0.978 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B10 Body EU XG-15-UHF, 459MHz, 1223/12, -0214, T-Strap, BT/Area Scan (7x23x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.26 mW/g

**B10 Body EU XG-15-UHF, 459MHz, 1223/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

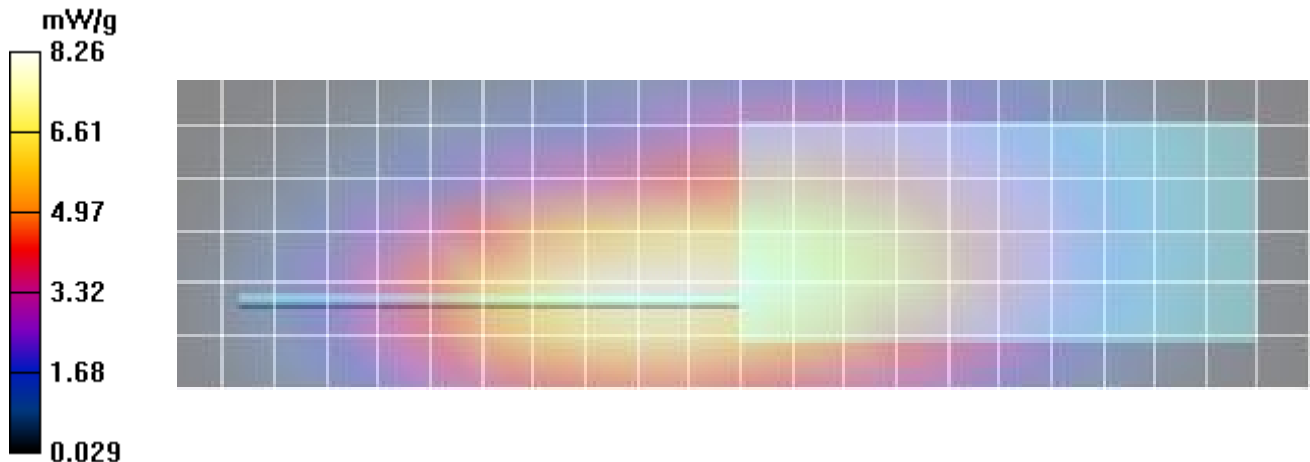
Reference Value = 82.4 V/m; Power Drift = -0.068 dB

Peak SAR (extrapolated) = 10.5 W/kg

**SAR(1 g) = 7.78 mW/g; SAR(10 g) = 5.65 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.21 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |
|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |

## Plot B11

Date/Time: 20/09/2015 9:57:19 AM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B11 Body EU XG-15-UHF, 476MHz, 1223/12, -0214, T-Strap, BT/Area Scan (7x23x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.18 mW/g

**B11 Body EU XG-15-UHF, 476MHz, 1223/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

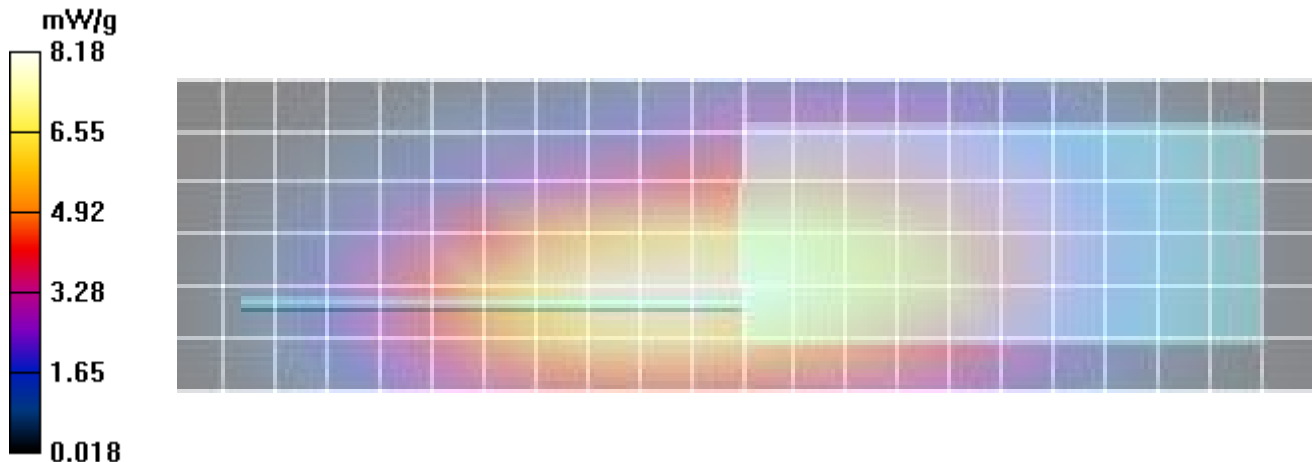
Reference Value = 83.3 V/m; Power Drift = -0.156 dB

Peak SAR (extrapolated) = 9.78 W/kg

**SAR(1 g) = 7.19 mW/g; SAR(10 g) = 5.19 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.58 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              |  |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                     |
| Test Lab Certificate No. 2470.01                                                  |                                                     |                                                           |                                                          |                                                                                     |

## Plot B12

Date/Time: 20/09/2015 10:24:38 AM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 494 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 494 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B12 Body EU XG-15-UHF, 494MHz, 1223/12, -0214, T-Strap, BT/Area Scan (7x23x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.50 mW/g

**B12 Body EU XG-15-UHF, 494MHz, 1223/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

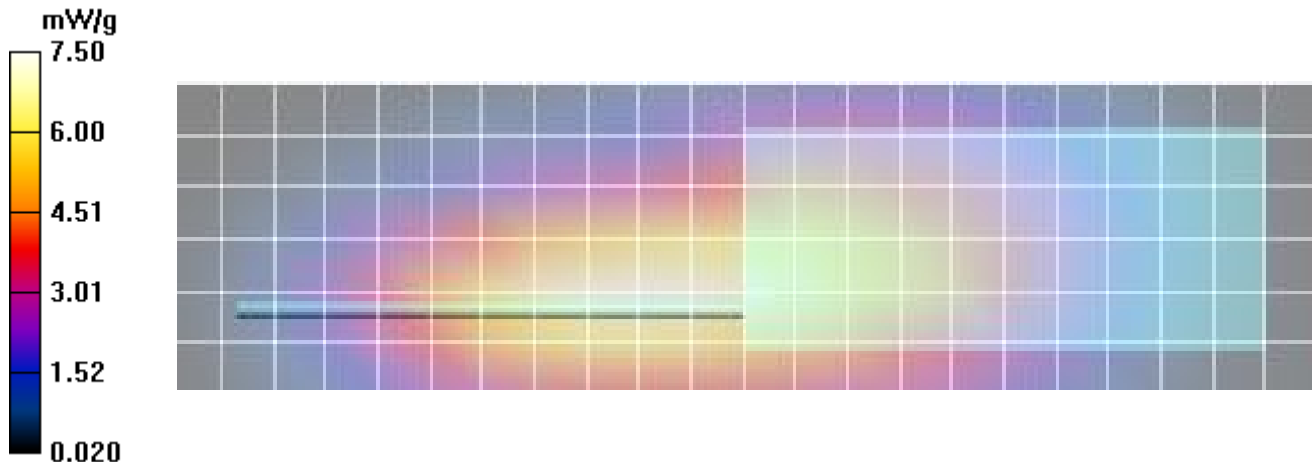
Reference Value = 77.3 V/m; Power Drift = -0.121 dB

Peak SAR (extrapolated) = 9.39 W/kg

**SAR(1 g) = 6.83 mW/g; SAR(10 g) = 4.88 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 7.26 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B13

Date/Time: 20/09/2015 11:39:11 AM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 512 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 512 \text{ MHz}$ ;  $\sigma = 1 \text{ mho/m}$ ;  $\epsilon_r = 53.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B13 Body EU XG-15-UHF, 512MHz, 1223/12, -0214, T-Strap, BT/Area Scan (7x23x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.77 mW/g

**B13 Body EU XG-15-UHF, 512MHz, 1223/12, -0214, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

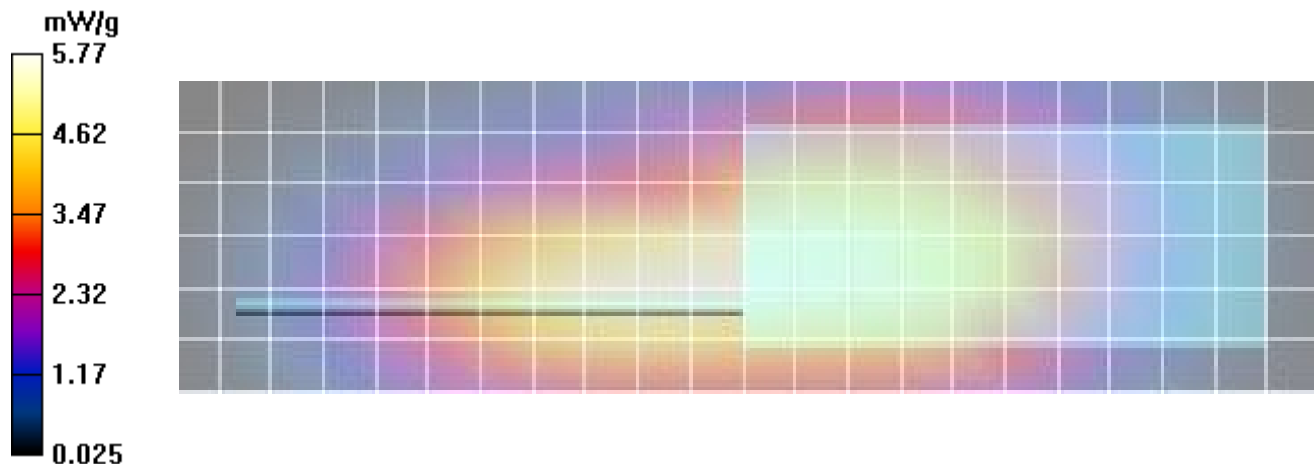
Reference Value = 71.8 V/m; Power Drift = -0.063 dB

Peak SAR (extrapolated) = 7.31 W/kg

**SAR(1 g) = 5.36 mW/g; SAR(10 g) = 3.86 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 5.66 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B14

Date/Time: 20/09/2015 12:04:55 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B14 Body XG-15-UHF, 476MHz, 1219/14, -23436, T-Strap, BT/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.73 mW/g

**B14 Body XG-15-UHF, 476MHz, 1219/14, -23436, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

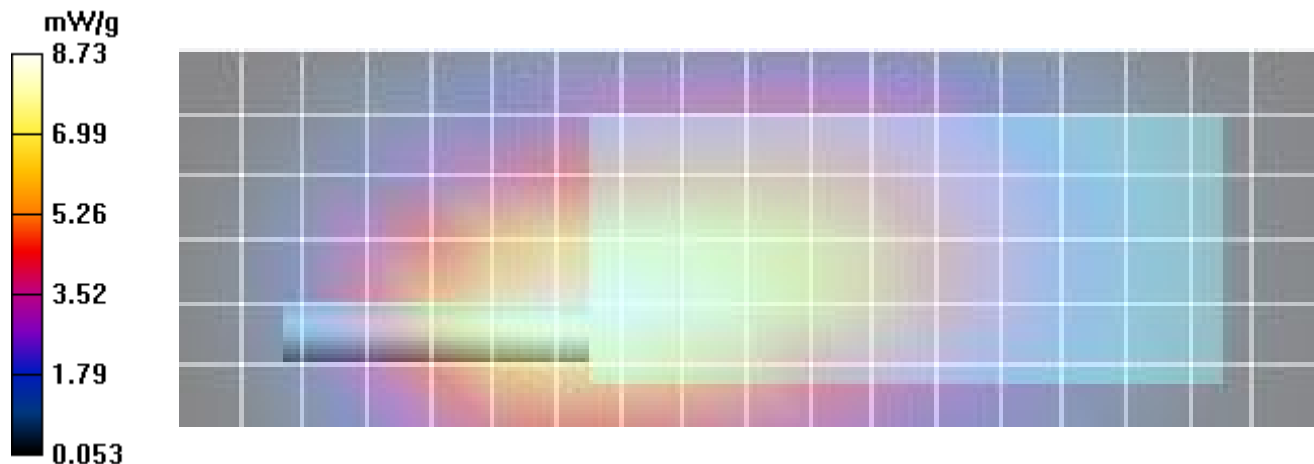
Reference Value = 86.4 V/m; Power Drift = 0.158 dB

Peak SAR (extrapolated) = 11.4 W/kg

**SAR(1 g) = 8.48 mW/g; SAR(10 g) = 6.17 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 8.93 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B15

Date/Time: 20/09/2015 12:31:40 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B15 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, BT/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.9 mW/g

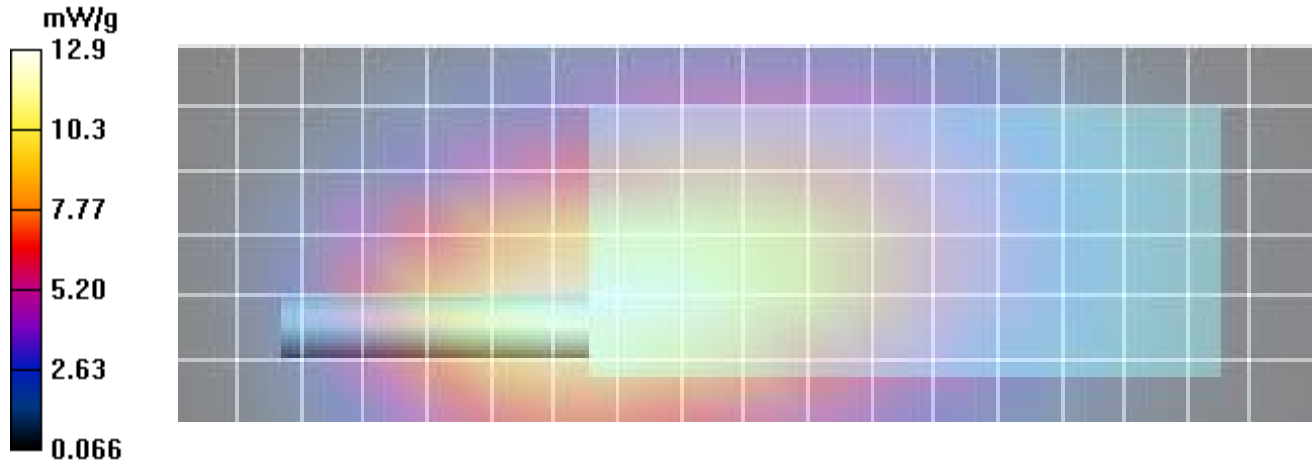
**B15 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 102.8 V/m; Power Drift = 0.182 dB

Peak SAR (extrapolated) = 16.5 W/kg

**SAR(1 g) = 12.2 mW/g; SAR(10 g) = 8.9 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B16

Date/Time: 20/09/2015 1:18:39 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B16 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, GPS/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.1 mW/g

**B16 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, GPS/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

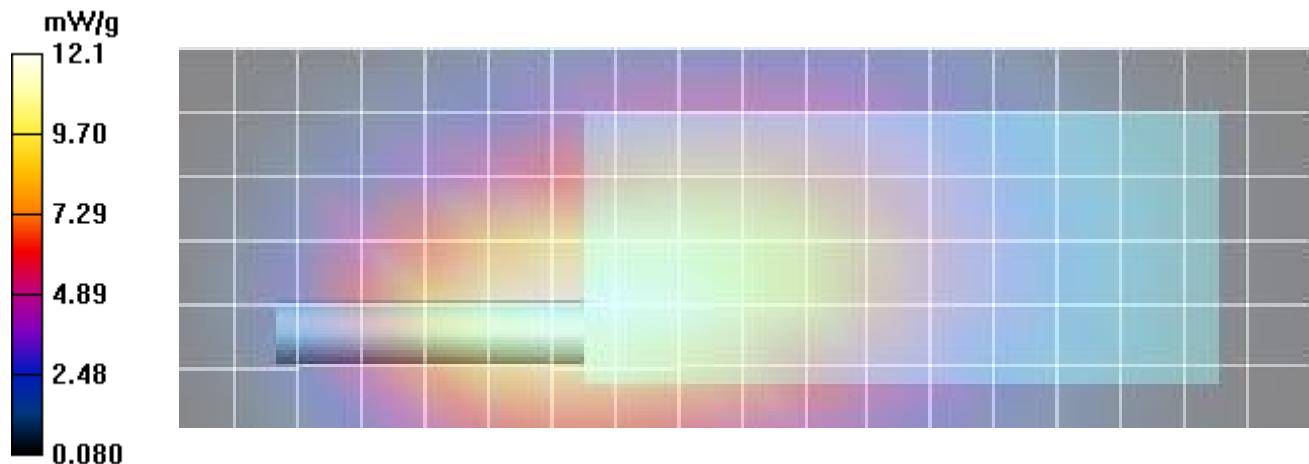
Reference Value = 103.4 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 15.7 W/kg

**SAR(1 g) = 11.6 mW/g; SAR(10 g) = 8.5 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 12.3 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B17

Date/Time: 20/09/2015 2:04:48 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B17 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, Spk-MIC/Area Scan (7x19x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.7 mW/g

**B17 Body XG-15-UHF, 476MHz, 1219/14, -23406, T-Strap, Spk-MIC/Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

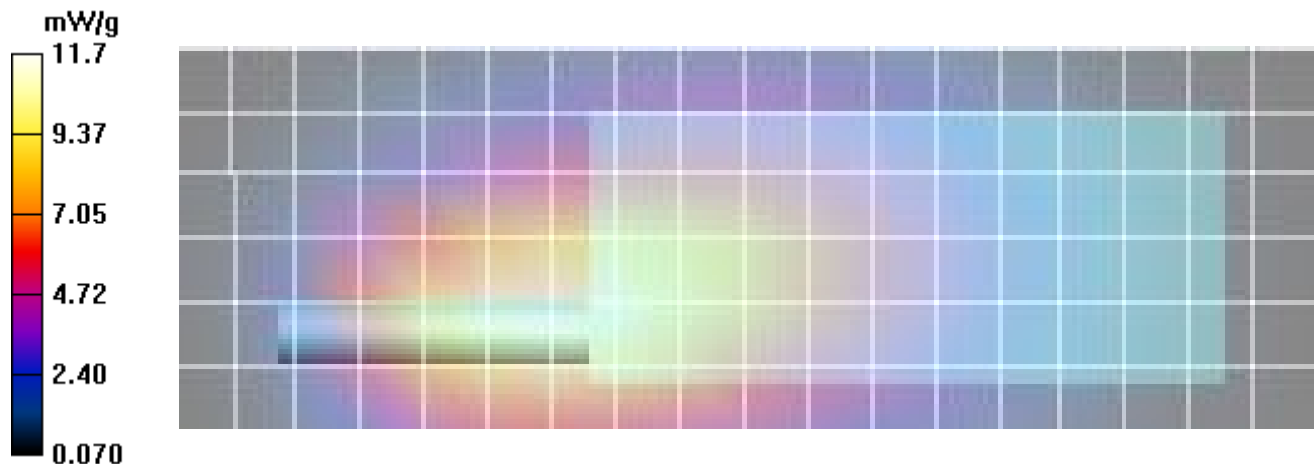
Reference Value = 98.6 V/m; Power Drift = -0.054 dB

Peak SAR (extrapolated) = 15.2 W/kg

**SAR(1 g) = 10.9 mW/g; SAR(10 g) = 7.8 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.5 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B18

Date/Time: 20/09/2015 3:27:14 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B18 Body XG-15-UHF, 476MHz, 1219/14, -23406, B1, BT/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.0 mW/g

**B18 Body XG-15-UHF, 476MHz, 1219/14, -23406, B1, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

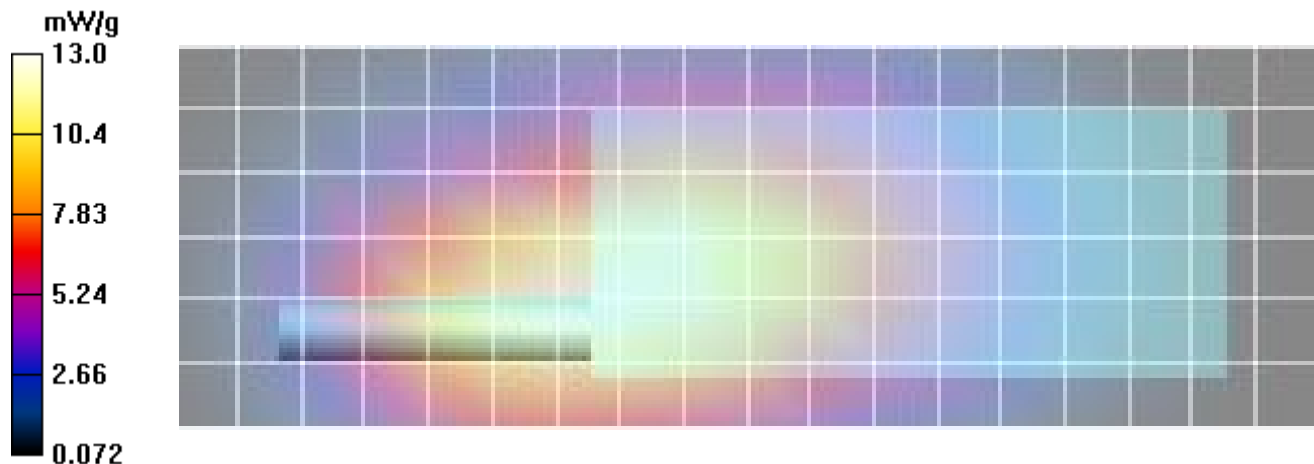
Reference Value = 108.7 V/m; Power Drift = 0.050 dB

Peak SAR (extrapolated) = 16.6 W/kg

**SAR(1 g) = 12.5 mW/g; SAR(10 g) = 9.14 mW/g**

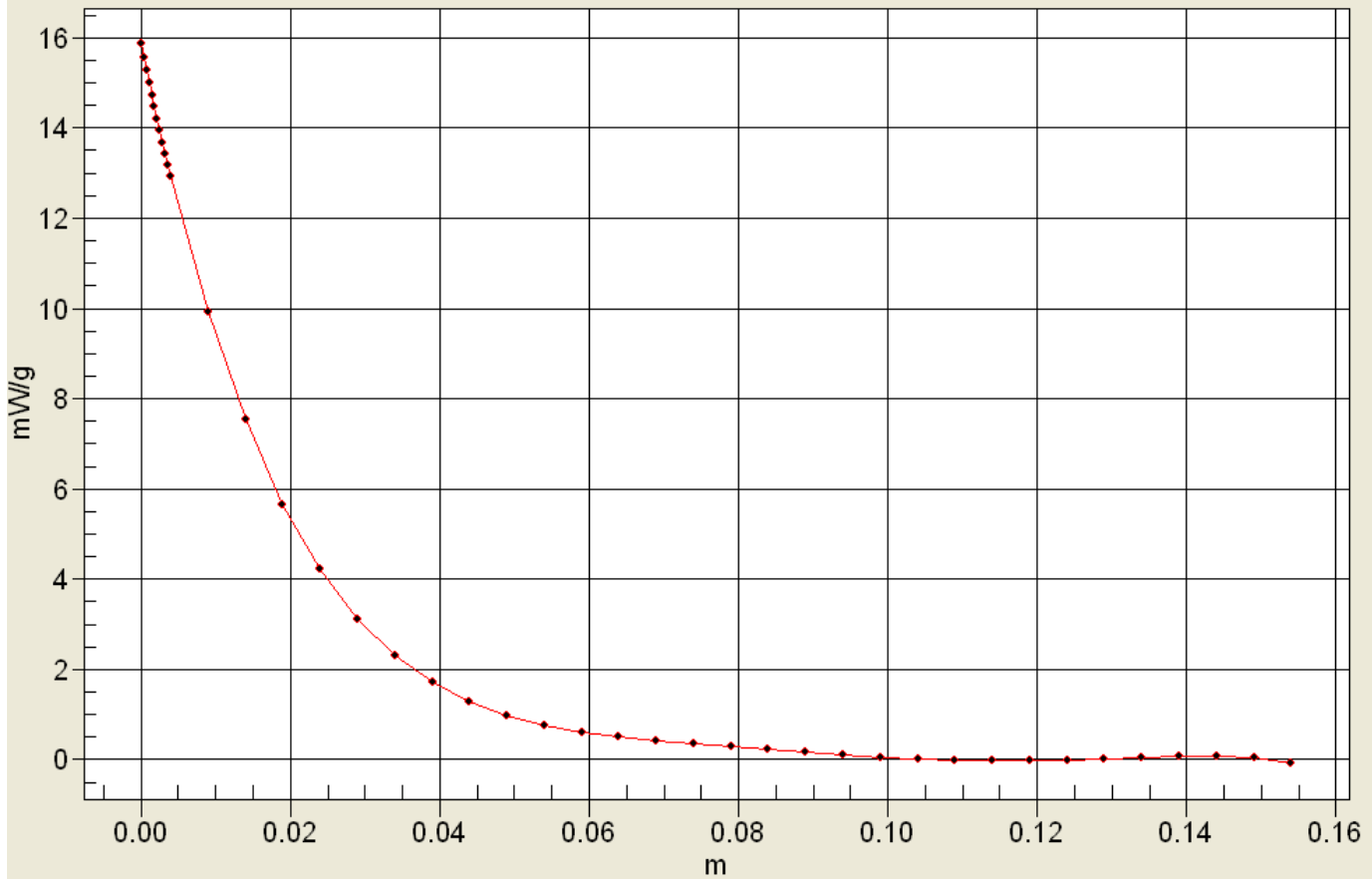
[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 13.2 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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**Interpolated SAR(x,y,z,f0)**  
 SAR; Z Scan: Value Along Z, X=0, Y=0



|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## Plot B19

Date/Time: 20/09/2015 2:57:21 PM

### 450 Body 20 Sep 2015

**DUT: Harris XG-15; Type: PTT Radio Transceiver; Serial: Not Specified**

Program Notes: 20 Sep 2015 Ambient Temp: 24C; Fluid Temp: 24.1C; Humidity: 24%

Procedure Notes:

Communication System: CW

Frequency: 476 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used (interpolated):  $f = 476 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection (Locations From Previous Scan Used))Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**B19 Body XG-15-UHF, 476MHz, 1219/14, -23406, B15, BT/Area Scan (7x19x1):** Measurement grid: dx=15mm, dy=15mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.4 mW/g

**B19 Body XG-15-UHF, 476MHz, 1219/14, -23406, B15, BT/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

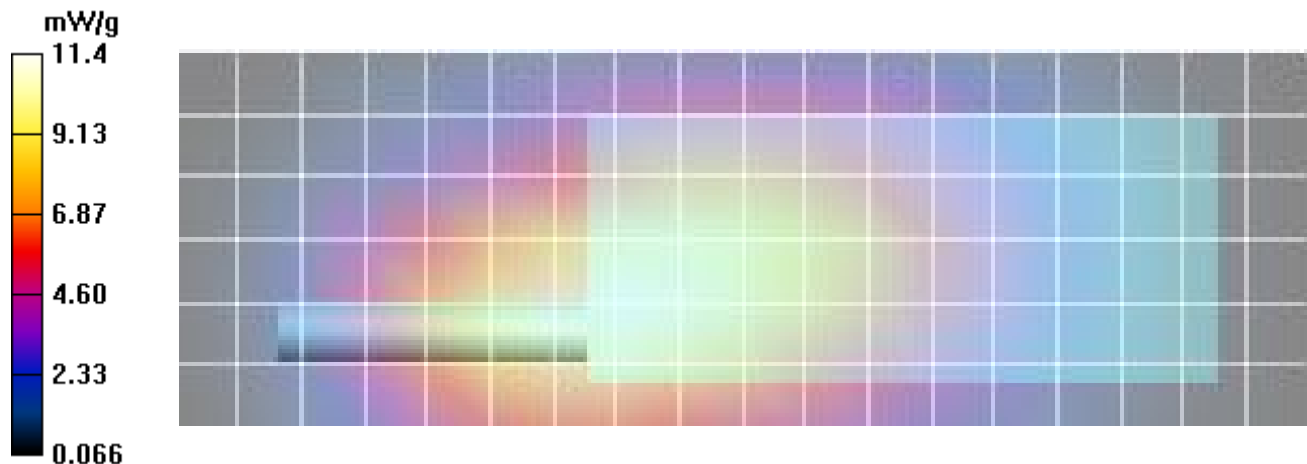
Reference Value = 100.4 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 14.4 W/kg

**SAR(1 g) = 10.8 mW/g; SAR(10 g) = 7.94 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 11.3 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

## APPENDIX B – SYSTEM VERIFICATION PLOTS

Date/Time: 14/09/2015 12:43:53 PM

### SPC 450H - 14 Sep 2015

**DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012**

Program Notes: 14 Sep 2015, Ambient Temp: 24C; Fluid Temp: 21.4C; Humidity: 35%

Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL\_450H Medium parameters used:  $f = 450 \text{ MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 44.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(9.03, 9.03, 9.03); Calibrated: 23/04/2015
- Sensor-Surface: 5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Head d=15mm Pin=250mW, TS=[1.044][1.16][1.276]/Area Scan (3x5x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.12 mW/g

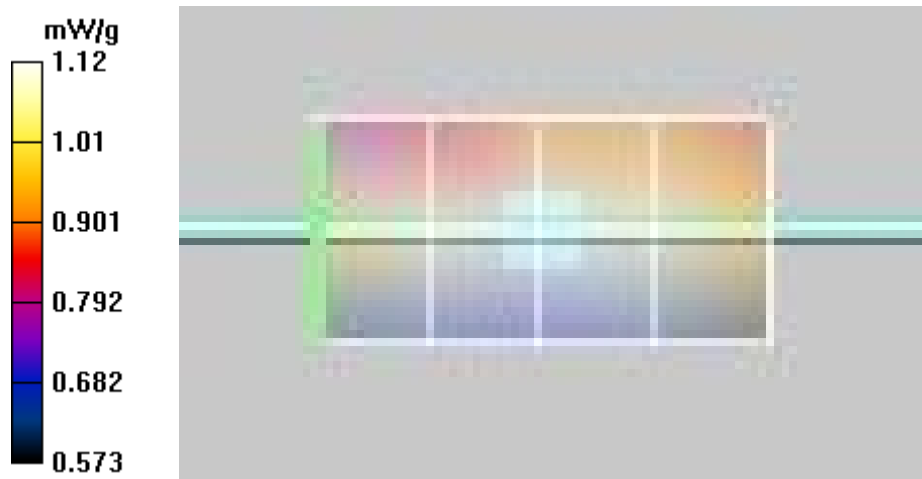
**Head d=15mm Pin=250mW, TS=[1.044][1.16][1.276]/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 35.9 V/m; Power Drift = 0.000 dB

Peak SAR (extrapolated) = 1.67 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.794 mW/g**

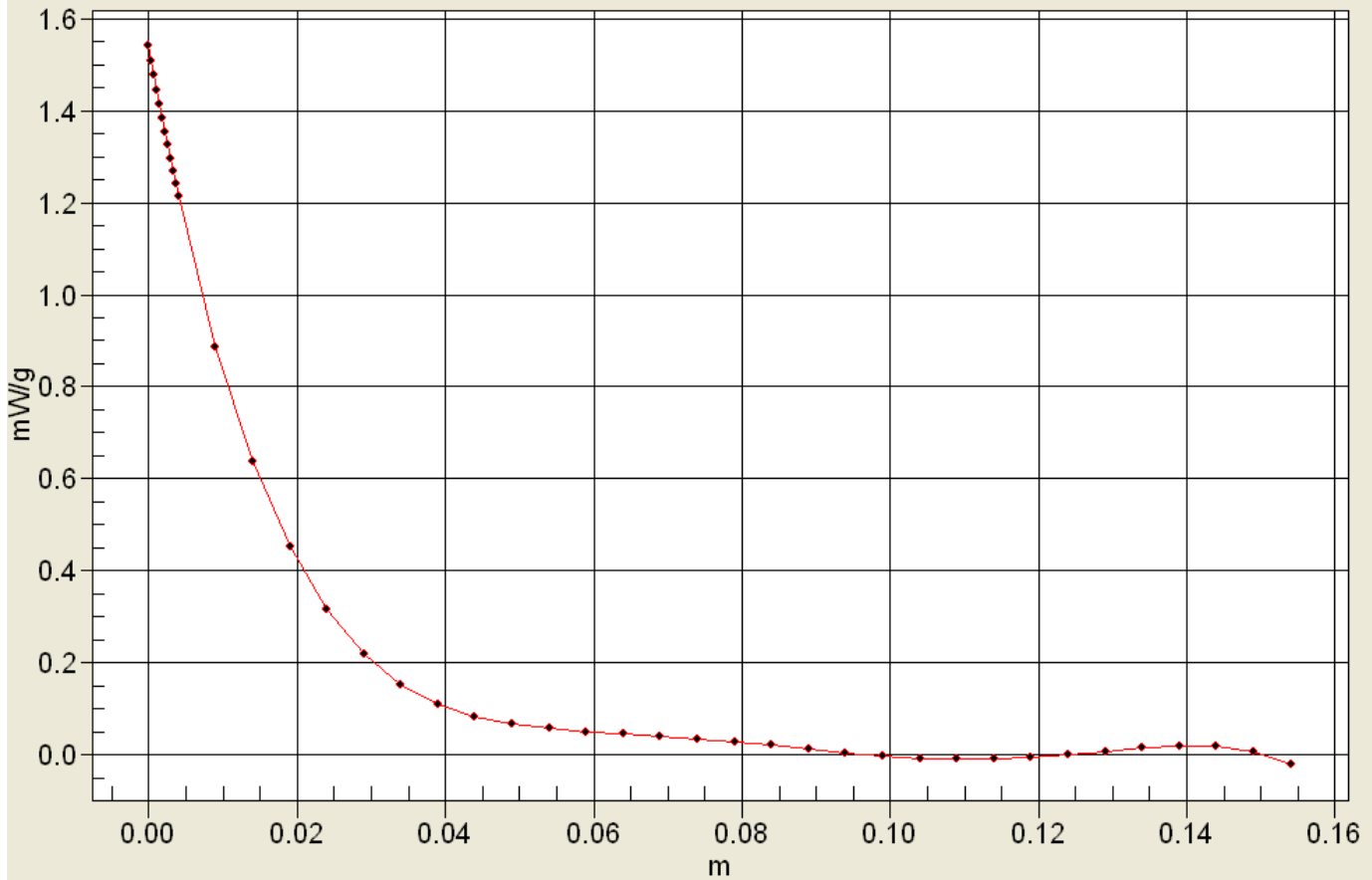
Maximum value of SAR (measured) = 1.15 mW/g



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

**Interpolated SAR(x,y,z,f0)**  
SAR; Z Scan: Value Along Z, X=0, Y=0



|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |
|                                                                                   |                                                     |                                                           |                                                          |                                                                                                                         |

Date/Time: 19/09/2015 11:34:43 AM

#### SPC 450B - 19 Sep 2015

**DUT: Dipole 450 MHz; Type: D450V3; Serial: 1068; Calibrated: 04/27/2012**

Program Notes: 19 Sep 2015, Ambient Temp: 23C; Fluid Temp: 24.0C; Humidity: 24%

#### Procedure Notes:

Communication System: CW

Frequency: 450 MHz; Duty Cycle: 1:1

Medium: TSL\_450B Medium parameters used:  $f = 450 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 55.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600 2015; ConvF(8.8, 8.8, 8.8); Calibrated: 23/04/2015
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn370 2015; Calibrated: 23/04/2015
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:xxxx
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body d=15mm Pin=398mW, TS=[1.008[1.12][1.232]/Area Scan (5x7x1):** Measurement grid: dx=15mm, dy=15mm  
Maximum value of SAR (measured) = 1.28 mW/g

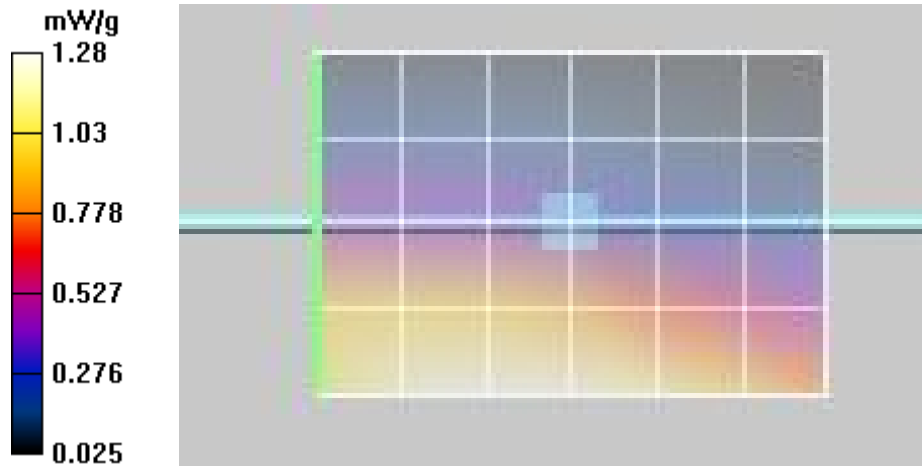
**Body d=15mm Pin=398mW, TS=[1.008[1.12][1.232]/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 20.3 V/m; Power Drift = -0.314 dB

Peak SAR (extrapolated) = 1.78 W/kg

**SAR(1 g) = 1.21 mW/g; SAR(10 g) = 0.823 mW/g**

Maximum value of SAR (measured) = 1.30 mW/g

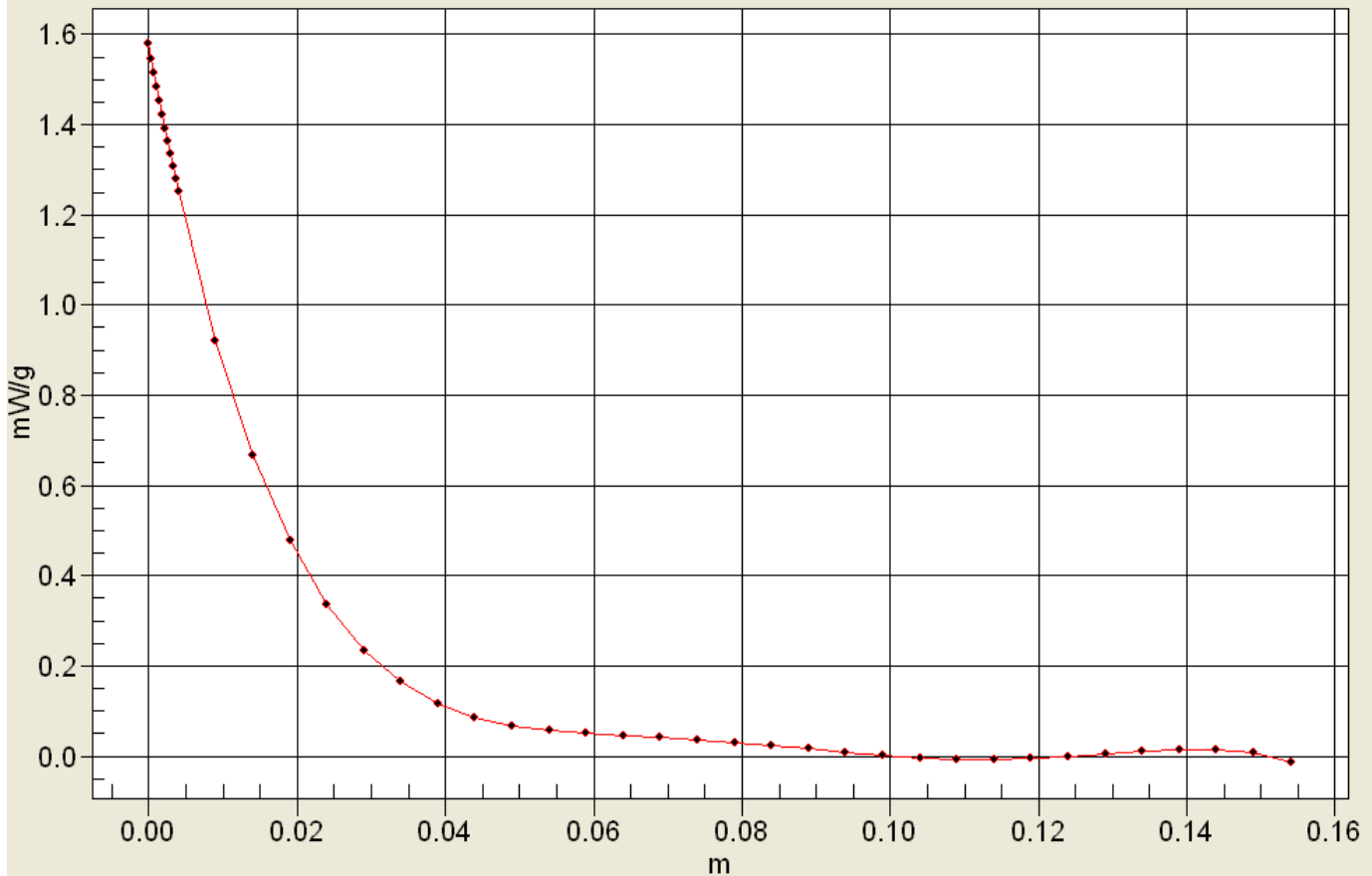


|                         |                                                                                                                      |                 |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|
| Applicant:              | Harris Corporation                                                                                                   | Original Filing |  |
| DUT Type:               | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>Sep 14-21, 2015     | <u>Test Report Serial No.</u><br>091015OWD-1332-S         | <u>Test Report Revision No.</u><br>Rev. 1.2              | <br>Test Lab Certificate No. 2470.01 |
|                                                                                   | <u>Test Report Issue Date</u><br>September 30, 2015 | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled) |                                                                                                                         |

### Interpolated SAR(x,y,z,f0)

SAR; Z Scan: Value Along Z, X=0, Y=0



|                         |                                                                                                                      |                 |                                                                                       |
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| <b>Applicant:</b>       | Harris Corporation                                                                                                   | Original Filing |  |
| <b>DUT Type:</b>        | XG-15P UHF-H Band Portable PTT Transceiver                                                                           |                 |                                                                                       |
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