

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|-----------------------|-----------------------------|-----------------------|------------------------------------------|----------------------|---------------------------|-------------------------|-------------------------------------------------------|-------------------------|----------|---------------------------|------|-----------------------|------|----------------------------|----------------|------------------------|-------------|-------------------------|--------------------------|----------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|----------------|----------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------|
|  <b>MOTOROLA SOLUTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <br><b>CERTIFICATE 2518.05</b>          |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 2 of 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Motorola Solutions Inc.</b><br><b>EME Test Laboratory</b><br>Motorola Solutions Malaysia Sdn Bhd (Innoplex)<br>Plot 2A, Medan Bayan Lepas,<br>Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Date of Report:</b> 05/05/2016<br><b>Report Revision:</b> B                                                             |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <table border="0"> <tr> <td style="vertical-align: top;"><b>Responsible Engineer:</b></td> <td>Saw Sun Hock (EME Engineer)</td> </tr> <tr> <td style="vertical-align: top;"><b>Report Author:</b></td> <td>Saw Sun Hock (EME Engineer)</td> </tr> <tr> <td style="vertical-align: top;"><b>Date/s Tested:</b></td> <td>3/28/2016 -3/30/2016; 4/5/2016-4/12/2016</td> </tr> <tr> <td style="vertical-align: top;"><b>Manufacturer:</b></td> <td>Vertex Standard LMR, Inc.</td> </tr> <tr> <td style="vertical-align: top;"><b>DUT Description:</b></td> <td>Handheld Portable – Vertex EVX-261-G6-5 403-470MHz 5W</td> </tr> <tr> <td style="vertical-align: top;"><b>Test TX mode(s):</b></td> <td>CW (PTT)</td> </tr> <tr> <td style="vertical-align: top;"><b>Max. Power output:</b></td> <td>5.5W</td> </tr> <tr> <td style="vertical-align: top;"><b>Nominal Power:</b></td> <td>5.0W</td> </tr> <tr> <td style="vertical-align: top;"><b>Tx Frequency Bands:</b></td> <td>LMR 403-470MHz</td> </tr> <tr> <td style="vertical-align: top;"><b>Signaling type:</b></td> <td>FM and TDMA</td> </tr> <tr> <td style="vertical-align: top;"><b>Model(s) Tested:</b></td> <td>AC137U002 (EVX-261-G6-5)</td> </tr> <tr> <td style="vertical-align: top;"><b>Model(s) Certified:</b></td> <td>AC137U002 (EVX-261-G6-5)</td> </tr> <tr> <td style="vertical-align: top;"><b>Serial Number(s):</b></td> <td>2B6C800033, 2B6C800030</td> </tr> <tr> <td style="vertical-align: top;"><b>Classification:</b></td> <td>Occupational/Controlled</td> </tr> <tr> <td style="vertical-align: top;"><b>FCC ID:</b></td> <td>AXI11374620; LMR 406.125-470 MHz</td> </tr> <tr> <td style="vertical-align: top;"><b>IC:</b></td> <td>10239A-11374620; This report contains results that are immaterial for IC equipment approval, which are clearly identified.</td> </tr> </table> <p>This report contains results that are immaterial for FCC equipment approval, which are clearly identified.</p> |                                                                                                                            | <b>Responsible Engineer:</b> | Saw Sun Hock (EME Engineer) | <b>Report Author:</b> | Saw Sun Hock (EME Engineer) | <b>Date/s Tested:</b> | 3/28/2016 -3/30/2016; 4/5/2016-4/12/2016 | <b>Manufacturer:</b> | Vertex Standard LMR, Inc. | <b>DUT Description:</b> | Handheld Portable – Vertex EVX-261-G6-5 403-470MHz 5W | <b>Test TX mode(s):</b> | CW (PTT) | <b>Max. Power output:</b> | 5.5W | <b>Nominal Power:</b> | 5.0W | <b>Tx Frequency Bands:</b> | LMR 403-470MHz | <b>Signaling type:</b> | FM and TDMA | <b>Model(s) Tested:</b> | AC137U002 (EVX-261-G6-5) | <b>Model(s) Certified:</b> | AC137U002 (EVX-261-G6-5) | <b>Serial Number(s):</b> | 2B6C800033, 2B6C800030 | <b>Classification:</b> | Occupational/Controlled | <b>FCC ID:</b> | AXI11374620; LMR 406.125-470 MHz | <b>IC:</b> | 10239A-11374620; This report contains results that are immaterial for IC equipment approval, which are clearly identified. |
| <b>Responsible Engineer:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Saw Sun Hock (EME Engineer)                                                                                                |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Report Author:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Saw Sun Hock (EME Engineer)                                                                                                |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Date/s Tested:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/28/2016 -3/30/2016; 4/5/2016-4/12/2016                                                                                   |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Manufacturer:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertex Standard LMR, Inc.                                                                                                  |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>DUT Description:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Handheld Portable – Vertex EVX-261-G6-5 403-470MHz 5W                                                                      |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Test TX mode(s):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CW (PTT)                                                                                                                   |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Max. Power output:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.5W                                                                                                                       |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Nominal Power:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5.0W                                                                                                                       |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Tx Frequency Bands:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LMR 403-470MHz                                                                                                             |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Signaling type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FM and TDMA                                                                                                                |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Model(s) Tested:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AC137U002 (EVX-261-G6-5)                                                                                                   |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Model(s) Certified:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AC137U002 (EVX-261-G6-5)                                                                                                   |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Serial Number(s):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2B6C800033, 2B6C800030                                                                                                     |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>Classification:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Occupational/Controlled                                                                                                    |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>FCC ID:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AXI11374620; LMR 406.125-470 MHz                                                                                           |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <b>IC:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10239A-11374620; This report contains results that are immaterial for IC equipment approval, which are clearly identified. |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <p>The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of OET Bulletin 65. The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                            |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <p>Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |
| <p style="text-align: center;"><i>Tiong</i><br/> <b>Tiong Nguk Ing</b><br/> <b>Deputy Technical Manager</b><br/> <b>Approval Date:</b> 5/05/2016</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p style="text-align: center;"><b>Certification Date:</b> 4/19/2016<br/> <b>Certification No.:</b> L1160403</p>            |                              |                             |                       |                             |                       |                                          |                      |                           |                         |                                                       |                         |          |                           |      |                       |      |                            |                |                        |             |                         |                          |                            |                          |                          |                        |                        |                         |                |                                  |            |                                                                                                                            |

## **Appendix D**

### **System Verification Check Scans**

**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/28/2016 7:24:16 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160328-01  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1037  
 Tissue Temp: 22.0 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.066 dB  
 Adjusted SAR (1W): 4.52 mW/g (1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 54.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 38.06 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.809 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.33 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

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

Reference Value = 38.06 V/m; Power Drift = -0.02 dB

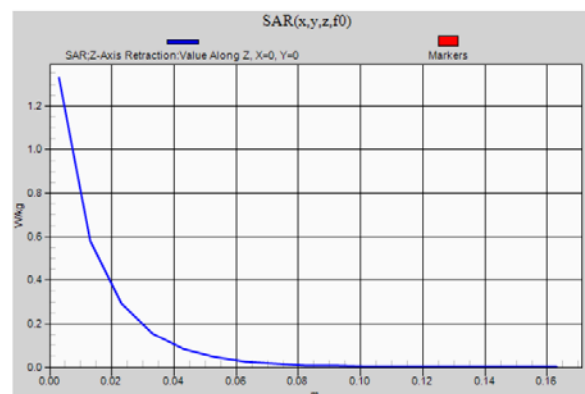
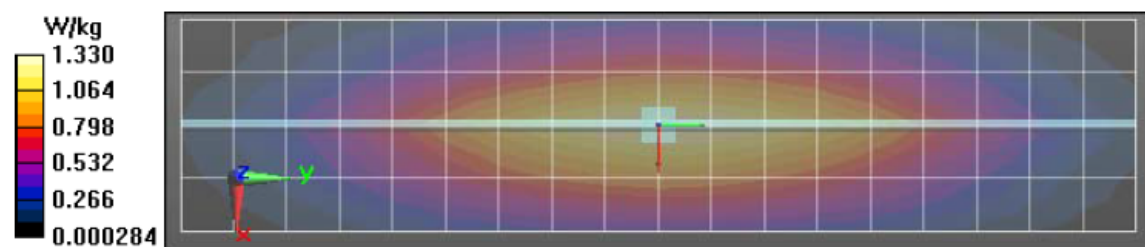
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.744 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.33 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 3/29/2016 7:31:59 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160329-01  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.7 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.069 dB  
 Adjusted SAR (1W): 4.60 mW/g (1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

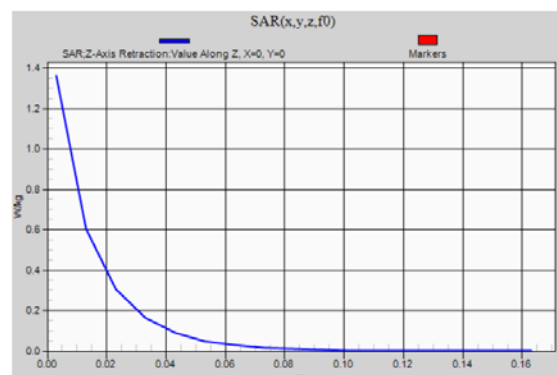
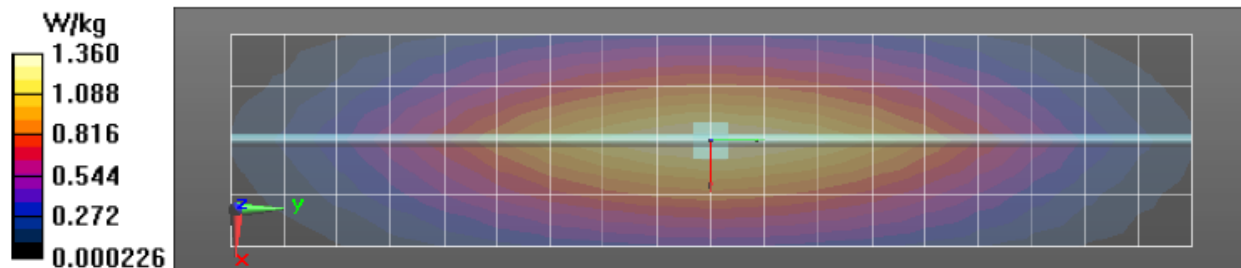
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 38.27 V/m; Power Drift = -0.01 dB  
 Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.823 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.36 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 38.27 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 1.88 W/kg  
 SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.760 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**  
Date/Time: 3/30/2016 10:49:57 AM

Robot#: DASY5-PG-1 | Run#: KKL(KBK)-SYSP-450B-160330-01  
 Dipole Model# D450V3  
 Phantom#: ELI4 1037  
 Tissue Temp: 21.1 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.073 dB  
 Adjusted SAR (1W): 4.56 mW/g (1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 55$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

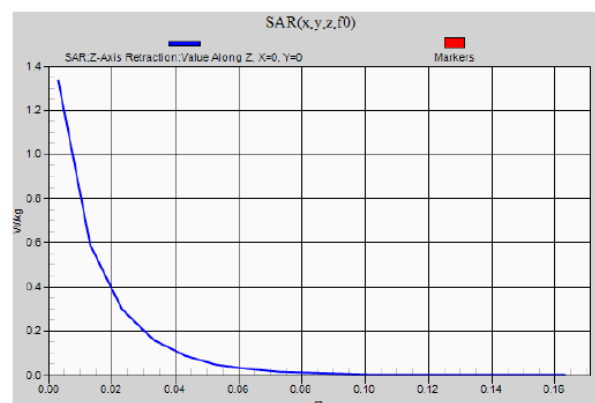
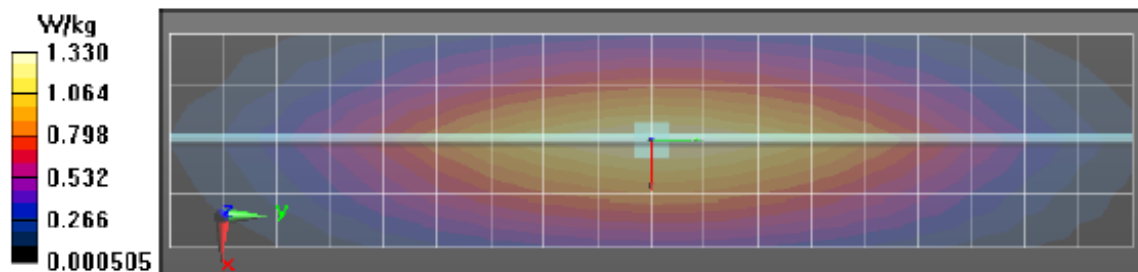
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 38.13 V/m; Power Drift = -0.00 dB  
 Fast SAR: SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.811 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.32 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 38.13 V/m; Power Drift = -0.00 dB  
 Peak SAR (extrapolated) = 1.84 W/kg  
 SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.751 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 1.34 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=10$ mm  
 Maximum value of SAR (measured) = 1.33 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/5/2016 8:31:47 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160405-01  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1037  
 Tissue Temp: 21.3 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.053 dB  
 Adjusted SAR (1W): 4.60 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 55.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

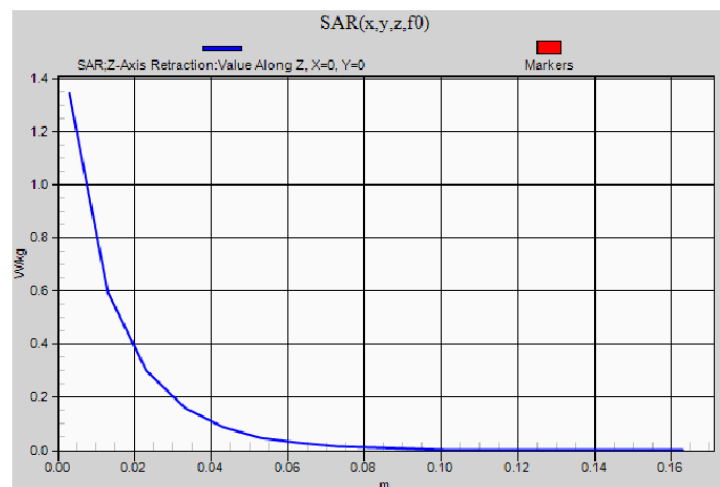
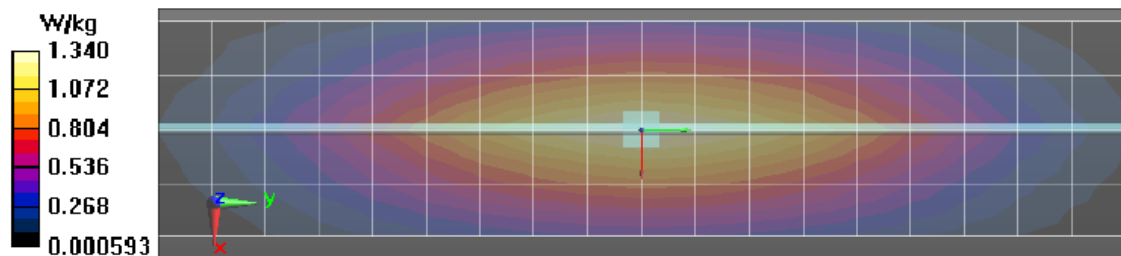
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 38.33 V/m; Power Drift = -0.02 dB  
 Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.822 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.35 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 38.33 V/m; Power Drift = -0.02 dB  
 Peak SAR (extrapolated) = 1.86 W/kg  
 SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.758 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=10$ mm  
 Maximum value of SAR (measured) = 1.34 W/kg



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/6/2016 2:09:50 PM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160406-14  
 Dipole Model#: D450V3  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.5 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.077 dB  
 Adjusted SAR (1W): 4.64 mW/g(1g)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 54.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 38.38 V/m; Power Drift = -0.01 dB

Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.829 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.37 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

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

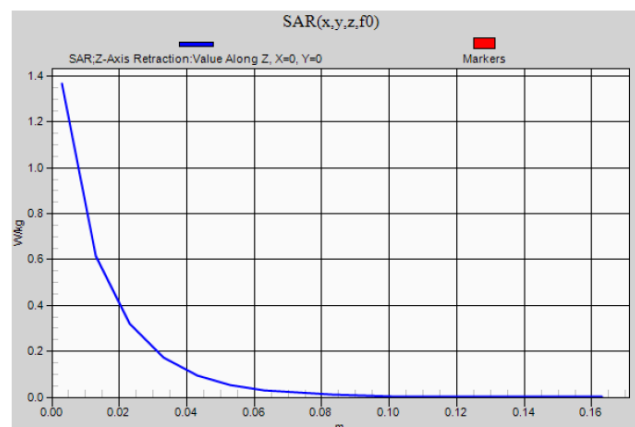
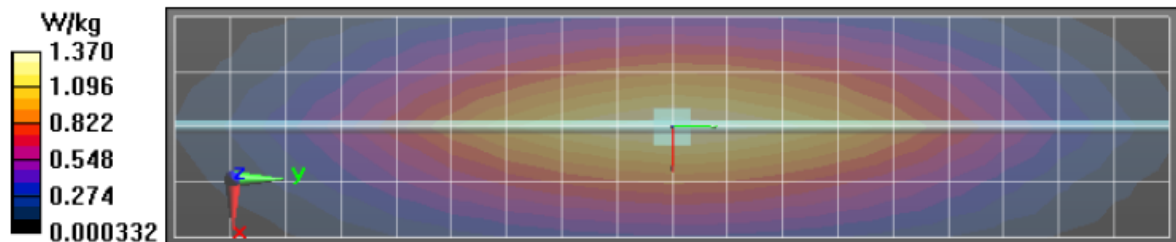
Reference Value = 38.38 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.771 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/7/2016 1:30:20 PM

Robot#: DASY5-PG-1 | Run#: ZR(KBK)-SYSP-450B-160407-18  
 Dipole Model# D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.1(C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.087dB  
 Adjusted SAR (1W): 4.60 mW/g(1g)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 38.23 V/m; Power Drift = -0.02 dB

Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.826 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.37 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

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

Reference Value = 38.23 V/m; Power Drift = -0.02 dB

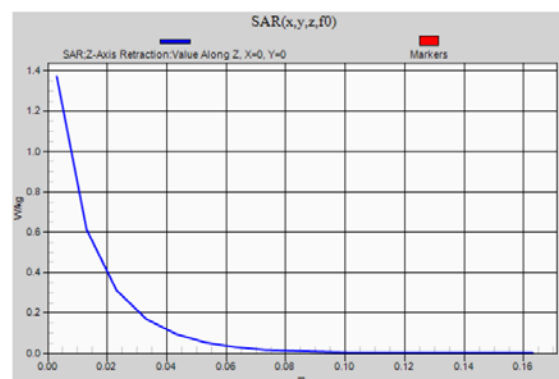
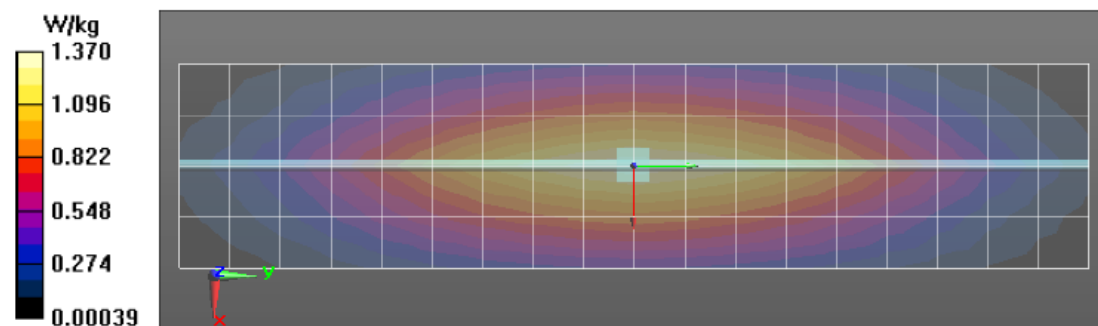
Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.764 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.38 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/8/2016 6:09:38 PM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160408-06  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.1 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.043 dB  
 Adjusted SAR (1W): 4.64 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 54.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

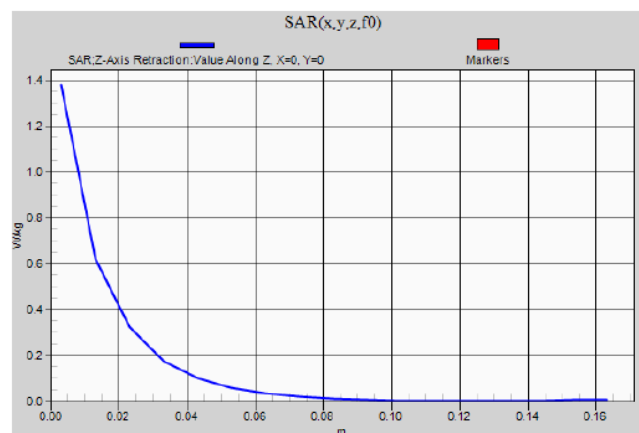
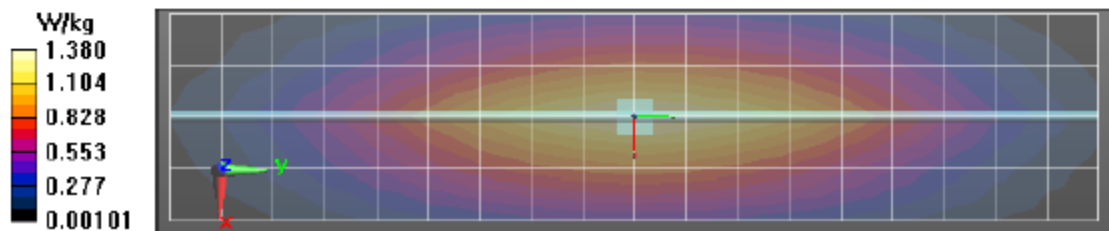
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 38.55 V/m; Power Drift = -0.04 dB  
 Fast SAR: SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.832 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.38 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 38.55 V/m; Power Drift = -0.04 dB  
 Peak SAR (extrapolated) = 1.89 W/kg  
 SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.774 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/11/2016 6:53:23 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160411-01  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 22.5 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.054 dB  
 Adjusted SAR (1W): 4.60 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

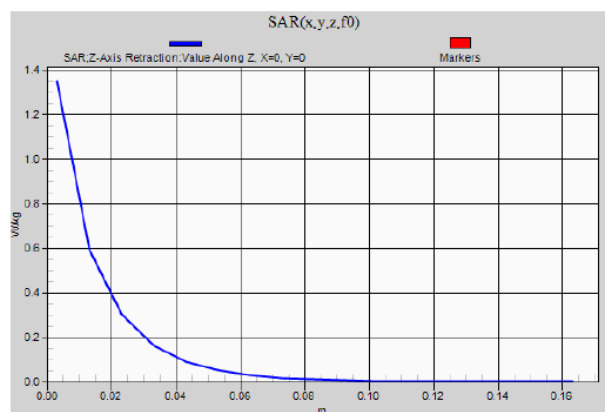
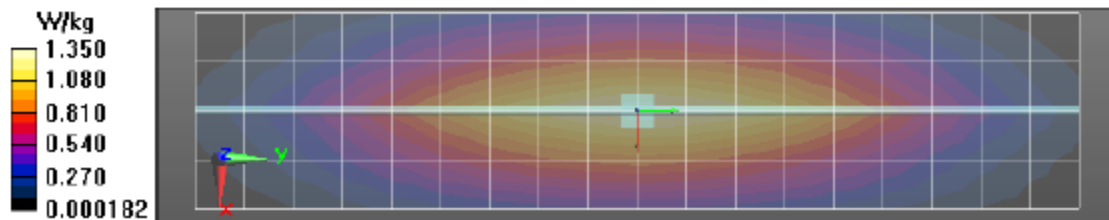
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 38.10 V/m; Power Drift = -0.03 dB  
 Fast SAR: SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.821 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.35 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 38.10 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 1.87 W/kg  
 SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.757 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 1.36 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/12/2016 6:35:52 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450B-160412-01  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.0 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.051 dB  
 Adjusted SAR (1W): 4.64 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 54.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

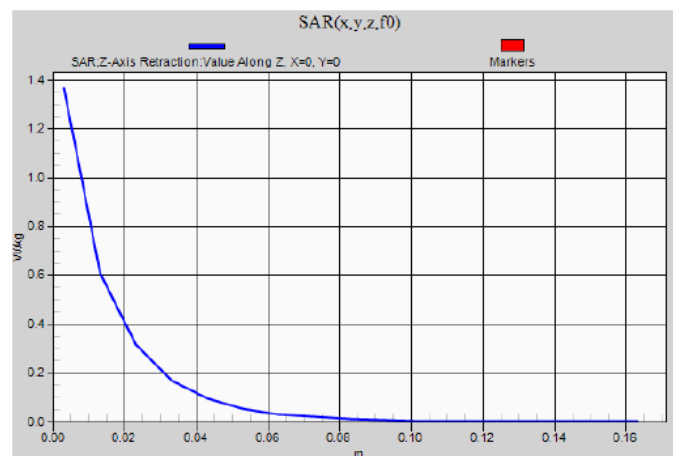
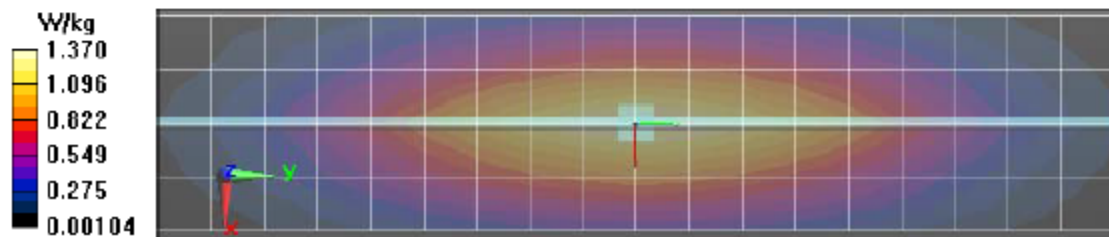
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 38.40 V/m; Power Drift = -0.01 dB  
 Fast SAR: SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.828 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.37 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 38.40 V/m; Power Drift = -0.01 dB  
 Peak SAR (extrapolated) = 1.89 W/kg  
 SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.767 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/7/2016 3:22:44 AM

Robot#: DASY5-PG-1 | Run#: ZWS-SYSP-450H-160407-06  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.0 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.083 dB  
 Adjusted SAR (1W): 4.60 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.89$  S/m;  $\epsilon_r = 42.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 450 MHz, ConvF(6.79, 6.79, 6.79); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

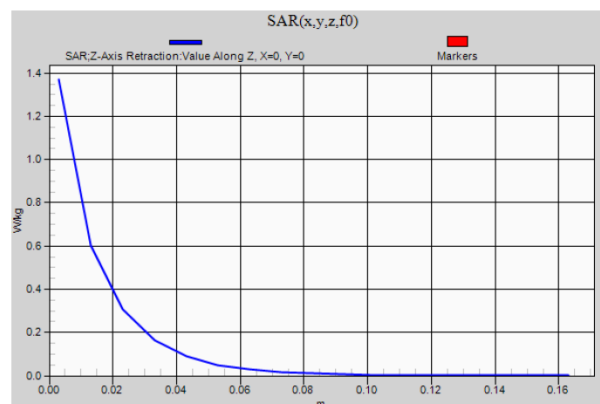
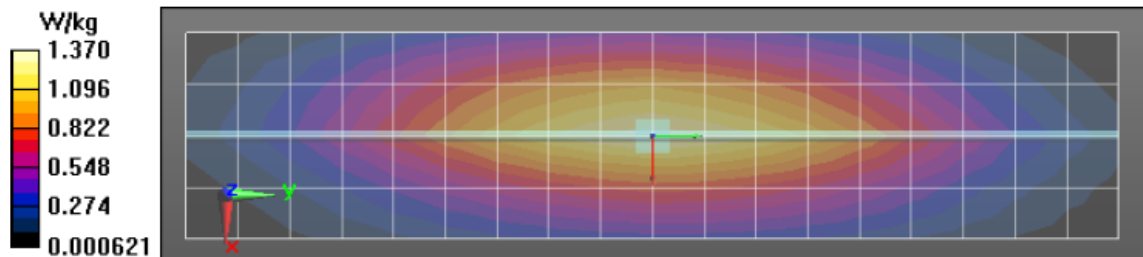
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
 Reference Value = 39.47 V/m; Power Drift = -0.03 dB  
 Fast SAR: SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.818 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.36 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
 Reference Value = 39.47 V/m; Power Drift = -0.03 dB  
 Peak SAR (extrapolated) = 1.87 W/kg  
 SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.757 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 1.37 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/8/2016 10:02:42 AM

Robot#: DASY5-PG-1 | Run#: ZR(KBK)-SYSP-450H-160408-03  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 20.9 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.076 dB  
 Adjusted SAR (1W): 4.48 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 42.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.79, 6.79, 6.79); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 39.34 V/m; Power Drift = -0.04 dB

Fast SAR: SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.802 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 1.32 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

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

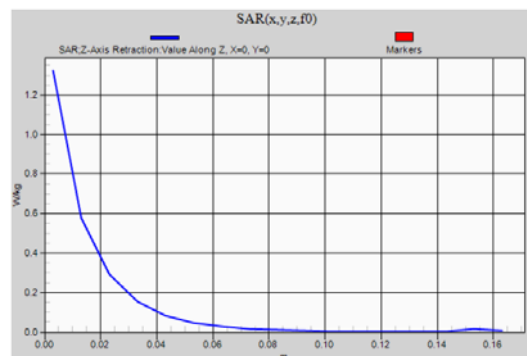
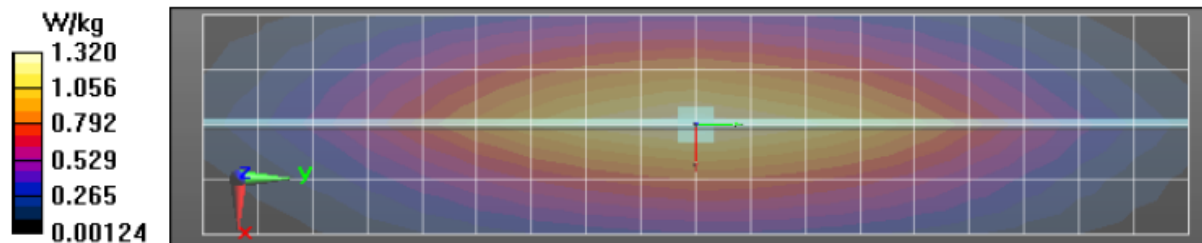
Reference Value = 39.34 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.80 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.737 W/kg (SAR corrected for target medium)

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



**Motorola Solutions, Inc. EME Laboratory**

Date/Time: 4/12/2016 10:45:02 AM

Robot#: DASY5-PG-1 | Run#: ZR-SYSP-450H-160412-05  
 Dipole Model#: D450V3  
 Phantom#: ELI5 1147  
 Tissue Temp: 21.1 (C)  
 Serial#: 1053  
 Test Freq: 450.000 (MHz)  
 Start Power: 250 (mW)  
 Rotation (1D): 0.069 dB  
 Adjusted SAR (1W): 4.60 mW/g(1g)

**Comments:**

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.87$  S/m;  $\epsilon_r = 42.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.79, 6.79, 6.79); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2/System Performance Check/Dipole Area Scan 2 (41x181x1):**

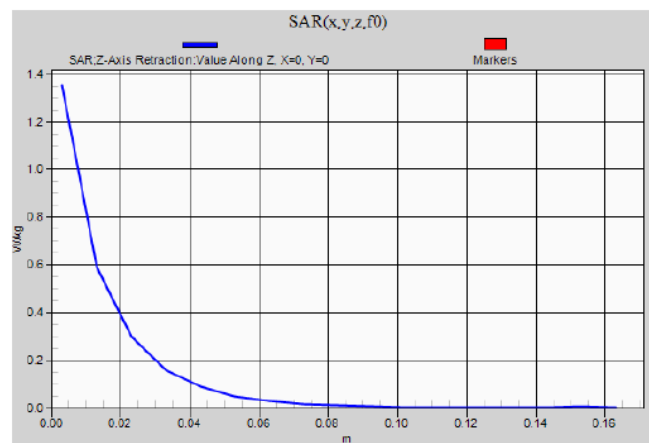
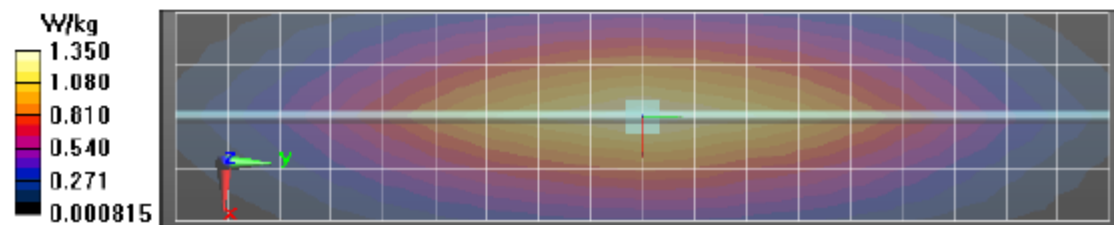
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
 Reference Value = 39.71 V/m; Power Drift = -0.05 dB  
 Fast SAR: SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.817 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (interpolated) = 1.35 W/kg

**Below 2 GHz-Rev.2/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
 Reference Value = 39.71 V/m; Power Drift = -0.05 dB  
 Peak SAR (extrapolated) = 1.87 W/kg  
 SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.752 W/kg (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 1.36 W/kg

**Below 2 GHz-Rev.2/System Performance Check/Z-Axis Retraction (1x1x17):**

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



## **Appendix E**

### **DUT Scans**

## Assessments at the Body with Body worn Clip-20 - Table 18

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/29/2016 8:30:39 AM

Robot#: DASY5-PG-1| Run#: ZR-AB-160329-02  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.6 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6B  
 Test Freq: 420.0125 (MHz)  
 Battery: FNB-V134LI-UNI  
 Carry Acc: Clip-20  
 Audio Acc: MH-360S  
 Start Power: 5.42(W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 420$  MHz;  $\sigma = 0.91$  S/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 420.012 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 94.97 V/m; Power Drift = -0.45 dB

Fast SAR: SAR(1 g) = 7.86 W/kg; SAR(10 g) = 5.72 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.64 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 94.97 V/m; Power Drift = -0.52 dB

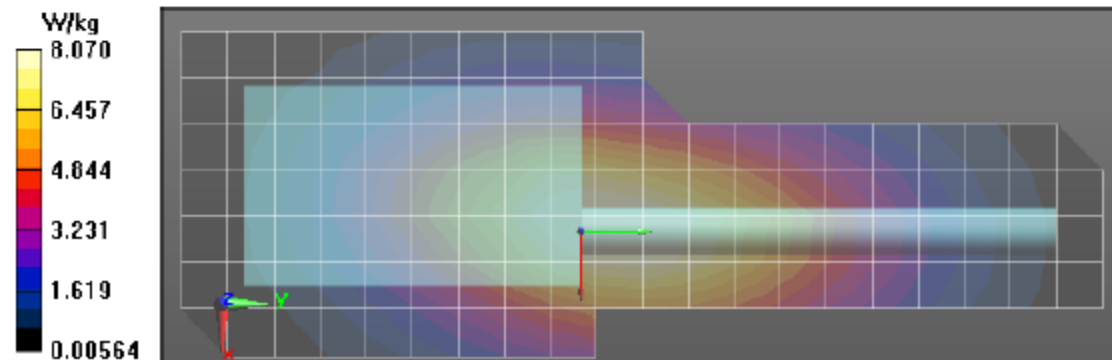
Peak SAR (extrapolated) = 10.3 W/kg

SAR(1 g) = 7.37 W/kg; SAR(10 g) = 5.38 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 8.13 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 8.07 W/kg



## Assessments at the Body with Body worn LCC-261 - Table 19

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 3/29/2016 8:37:59 PM

Robot#: DASY5-PG-1| Run#: ZWS-AB-160329-16  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.2 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6D  
 Test Freq: 469.9875 (MHz)  
 Battery: FNB-V133LI-UNI  
 Carry Acc: LCC-261  
 Audio Acc: MH-360S  
 Start Power: 5.45 (W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 54.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 469.988 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x241x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 115.1 V/m; Power Drift = -0.63 dB

Fast SAR: SAR(1 g) = 10.2 W/kg; SAR(10 g) = 7.35 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.5 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 115.1 V/m; Power Drift = -0.79 dB

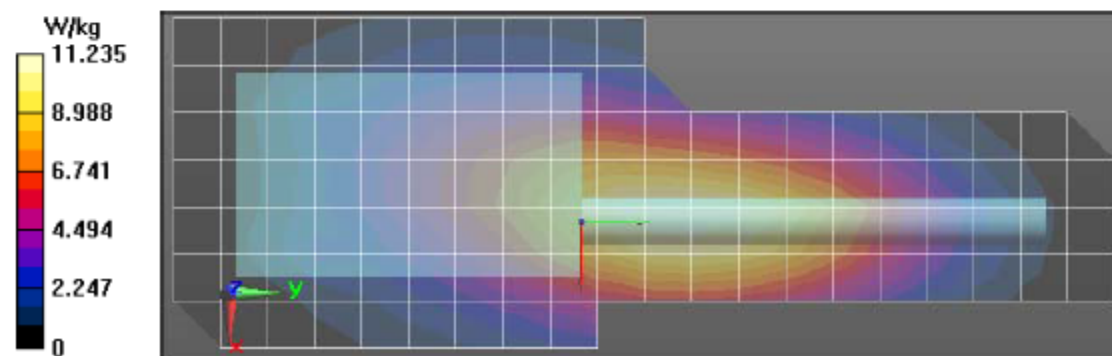
Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 9.32 W/kg; SAR(10 g) = 6.54 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.6 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 10.4 W/kg



## Assessments at the Body with Body worn LCC-261S – Table 20

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/11/2016 10:08:40 AM

Robot#: DASY5-PG-1| Run#: ZR-AB-160411-05  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 22.0 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6DS  
 Test Freq: 450.0000 (MHz)  
 Battery: FNB-V133LI-UNI  
 Carry Acc: LCC-261S  
 Audio Acc: MH-360S  
 Start Power: 5.41 (W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.94$  S/m;  $\epsilon_r = 55.1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Probe: ES3DV3 - SN3122, , Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015

Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x201x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 54.07 V/m; Power Drift = -0.29 dB

Fast SAR: SAR(1 g) = 2.75 W/kg; SAR(10 g) = 2.02 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 3.07 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 54.07 V/m; Power Drift = -0.37 dB

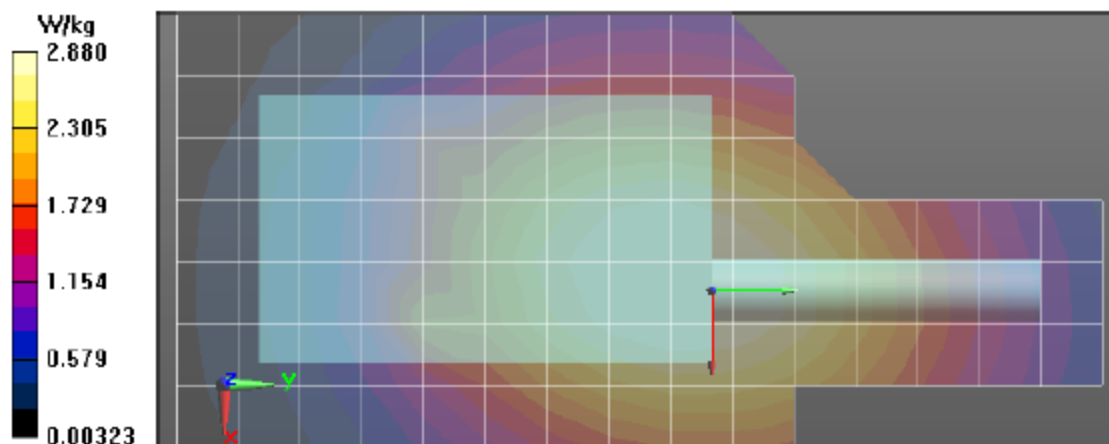
Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.99 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 2.93 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.88 W/kg



## Assessments at the Body with Body worn LCC-261SH - Table 21

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/11/2016 8:49:39 PM

Robot#: DASY5-PG-1| Run#: KBK-AB-160411-13  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 19.7 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6D  
 Test Freq: 450.0000 (MHz)  
 Battery: FNB-V134LI-UNI  
 Carry Acc: LCC-261SH  
 Audio Acc: MH-360S  
 Start Power: 5.46 (W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 450$  MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 450 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x201x1):** Interpolated grid: dx=1.500 mm,  
 dy=1.500 mm

Reference Value = 66.48 V/m; Power Drift = -0.42 dB

Fast SAR: SAR(1 g) = 3.85 W/kg; SAR(10 g) = 2.84 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 4.29 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm,  
 dy=7.5mm, dz=5mm

Reference Value = 66.48 V/m; Power Drift = -0.51 dB

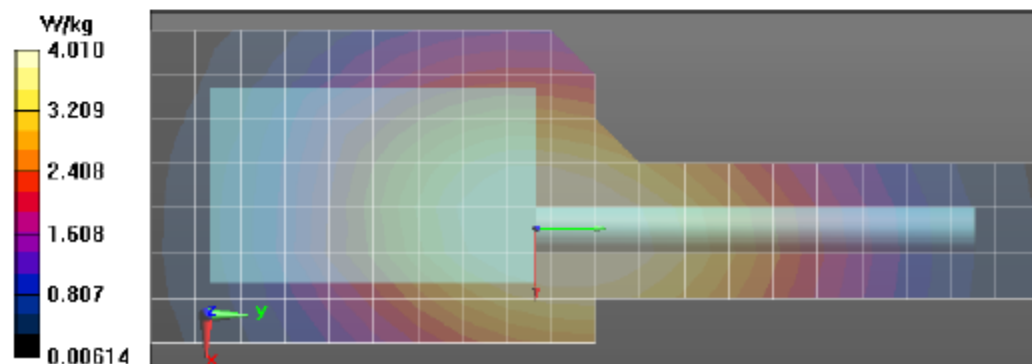
Peak SAR (extrapolated) = 5.11 W/kg

SAR(1 g) = 3.68 W/kg; SAR(10 g) = 2.8 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 4.10 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm,  
 dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.01 W/kg



## Assessment at the Body with other audio accessories - Table 22

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/6/2016 2:51:02 AM

Robot#: DASY5-PG-1| Run#: ZWS-AB-160406-05  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.7 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6D  
 Test Freq: 469.9875 (MHz)  
 Battery: FNB-V133LI-UNI  
 Carry Acc: LCC-261  
 Audio Acc: MH-66A4B w/ MH-100  
 Start Power: 5.42 (W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 54.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 469.988 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (61x191x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 116.7 V/m; Power Drift = -0.52 dB

Fast SAR: SAR(1 g) = 10.7 W/kg; SAR(10 g) = 7.65 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 12.0 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 116.7 V/m; Power Drift = -0.68 dB

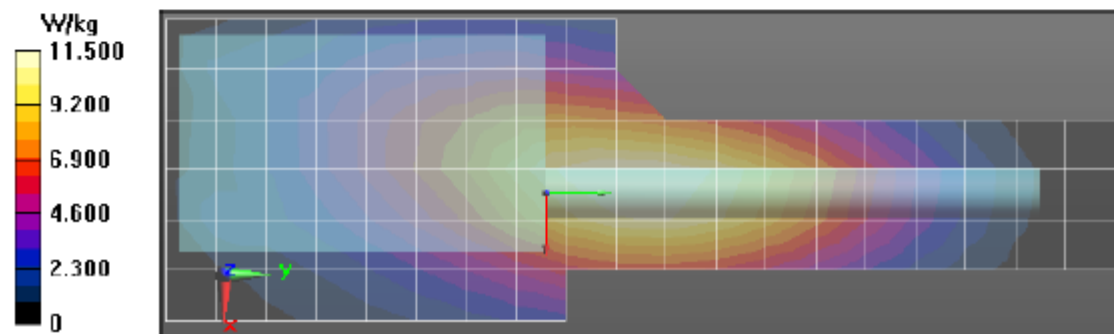
Peak SAR (extrapolated) = 14.7 W/kg

SAR(1 g) = 9.84 W/kg; SAR(10 g) = 6.88 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 11.3 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 11.0 W/kg



## Assessments at the Face - Table 24

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/8/2016 11:35:55 AM

Robot#: DASY5-PG-1| Run#: ZR(KBK)-FACE-160408-05  
 Model#: AC137U002  
 Phantom#: ELI5 1147  
 Tissue Temp: 20.6 (C)  
 Serial#: 2B6C800030  
 Antenna: ATU-6DS  
 Test Freq: 460.0000 (MHz)  
 Battery: FNB-V134LI-UNI  
 Carry Acc: Front face to phatom.  
 Audio Acc: None  
 Start Power: 5.46 (W)

## Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 460$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 42.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, , Frequency: 460 MHz, ConvF(6.79, 6.79, 6.79); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/FACE Scan/1-Area Scan (81x221x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 103.8 V/m; Power Drift = -0.84 dB

Fast SAR: SAR(1 g) = 7.62 W/kg; SAR(10 g) = 5.58 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.51 W/kg

**Below 2 GHz-Rev.2 2/FACE Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

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

Reference Value = 103.8 V/m; Power Drift = -1.04 dB

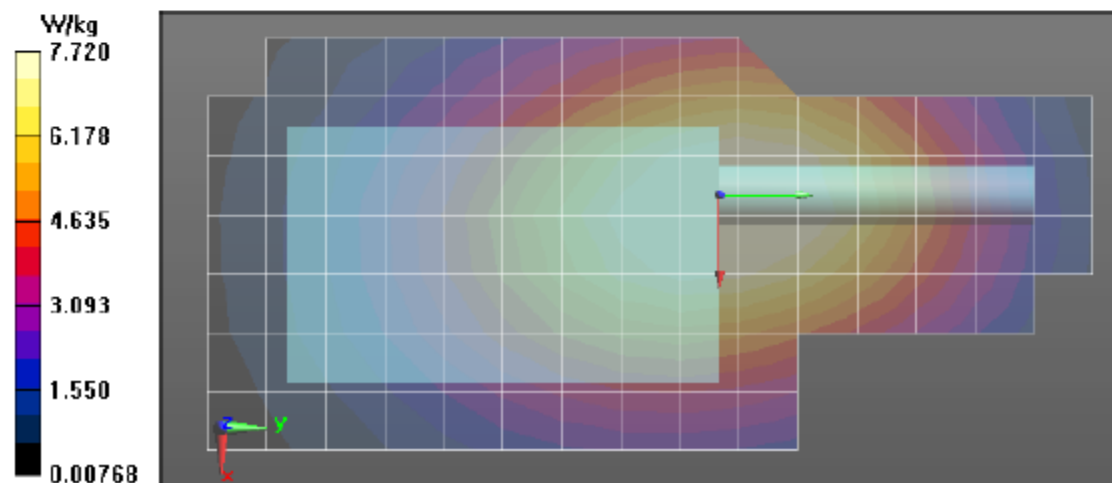
Peak SAR (extrapolated) = 9.94 W/kg

SAR(1 g) = 7.07 W/kg; SAR(10 g) = 5.19 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.91 W/kg

**Below 2 GHz-Rev.2 2/FACE Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 7.72 W/kg



## Assessments at outside FCC Part 90 - Table 25 Assessments at the Body

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/6/2016 9:21:08 PM

Robot#: DASY5-PG-1| Run#: ZWS-AB-160406-21  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.0 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6A  
 Test Freq: 403.0125 (MHz)  
 Battery: FNB-V133LI-UNI  
 Carry Acc: LCC-261  
 Audio Acc: MH-66A4B w/MH-100  
 Start Power: 5.33 (W)

#### Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 403 \text{ MHz}$ ;  $\sigma = 0.9 \text{ S/m}$ ;  $\epsilon_r = 55.4$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Probe: ES3DV3 - SN3122, , Frequency: 403.012 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x211x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  
 $dy=1.500 \text{ mm}$

Reference Value = 110.8 V/m; Power Drift = -0.32 dB

Fast SAR: SAR(1 g) = 9.66 W/kg; SAR(10 g) = 6.96 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.5 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=7.5\text{mm}$ ,  
 $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 110.8 V/m; Power Drift = -0.38 dB

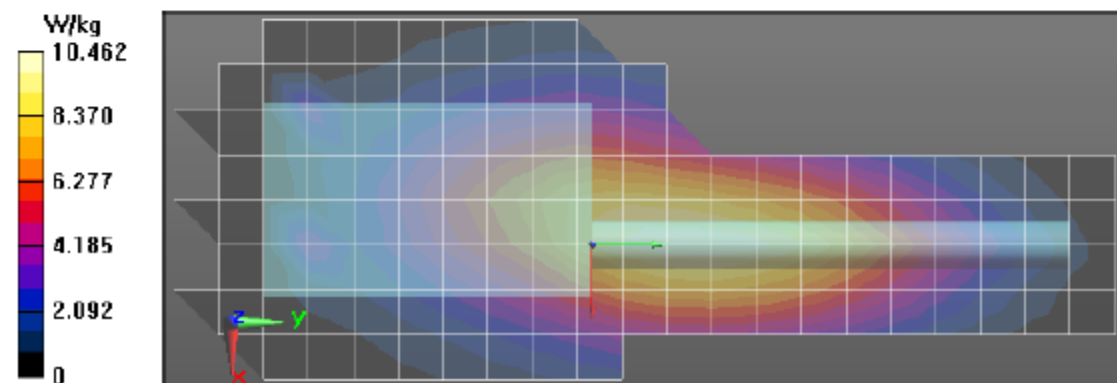
Peak SAR (extrapolated) = 13.0 W/kg

SAR(1 g) = 9.12 W/kg; SAR(10 g) = 6.49 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 10.1 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid:  $dx=20\text{mm}$ ,  
 $dy=20\text{mm}$ ,  $dz=10\text{mm}$

Maximum value of SAR (measured) = 9.98 W/kg



## Assessments at outside FCC Part 90 - Table 26 Assessments at the Face

### Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/8/2016 10:54:47 AM

Robot#: DASY5-PG-1| Run#: ZR(KBK)-FACE-160408-04  
 Model#: AC137U002  
 Phantom#: ELI5 1147  
 Tissue Temp: 20.8 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6A  
 Test Freq: 403.0125 (MHz)  
 Battery: FNB-V134LI-UNI  
 Carry Acc: Front face to phatom.  
 Audio Acc: None  
 Start Power: 5.30 (W)

#### Comments:

Duty Cycle: 1:1, Medium parameters used:  $f = 403 \text{ MHz}$ ;  $\sigma = 0.83 \text{ S/m}$ ;  $\epsilon_r = 43.5$ ;  $\rho = 1000 \text{ kg/m}^3$   
 Probe: ES3DV3 - SN3122, , Frequency: 403.012 MHz, ConvF(6.79, 6.79, 6.79); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/FACE Scan/1-Area Scan (81x221x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  
 $dy=1.500 \text{ mm}$

Reference Value = 98.23 V/m; Power Drift = -0.33 dB

Fast SAR: SAR(1 g) = 7.56 W/kg; SAR(10 g) = 5.54 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 8.12 W/kg

**Below 2 GHz-Rev.2 2/FACE Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid:

$dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 98.23 V/m; Power Drift = -0.45 dB

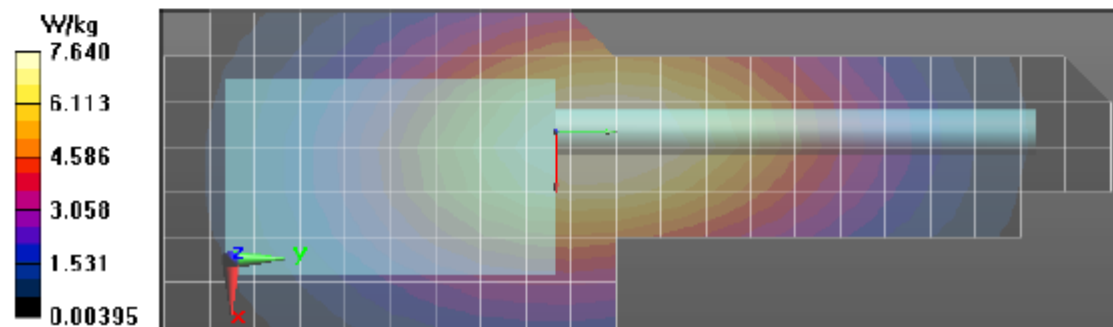
Peak SAR (extrapolated) = 9.69 W/kg

SAR(1 g) = 7.17 W/kg; SAR(10 g) = 5.31 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 7.74 W/kg

**Below 2 GHz-Rev.2 2/FACE Scan/4-Z-Axis Scan (1x1x17):** Measurement grid:  $dx=20\text{mm}$ ,  
 $dy=20\text{mm}$ ,  $dz=10\text{mm}$

Maximum value of SAR (measured) = 7.64 W/kg



## **APPENDIX F**

### **Shortened Scan of Highest SAR configuration**

## Shortened Scan - Table 27

## Motorola Solutions, Inc. EME Laboratory

Date/Time: 4/7/2016 2:28:49 AM

Robot#: DASY5-PG-1| Run#: ZWS-AB-160407-05  
 Model#: AC137U002  
 Phantom#: ELI4 1037  
 Tissue Temp: 20.0 (C)  
 Serial#: 2B6C800033  
 Antenna: ATU-6D  
 Test Freq: 469.9875 (MHz)  
 Battery: FNB-V133LI-UNI  
 Carry Acc: LCC-261  
 Audio Acc: MH-66A4B w/ MH-100  
 Start Power: 5.48 (W)

Comments: Shorten Scan

Duty Cycle: 1:1, Medium parameters used:  $f = 470$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 54.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Probe: ES3DV3 - SN3122, Frequency: 469.988 MHz, ConvF(6.78, 6.78, 6.78); Calibrated: 6/19/2015  
 Electronics: DAE4 Sn1488, Calibrated: 7/14/2015

**Below 2 GHz-Rev.2 2/Ab Scan/1-Area Scan (81x231x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 114.5 V/m; Power Drift = -0.68 dB

Fast SAR: SAR(1 g) = 10.1 W/kg; SAR(10 g) = 7.28 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 11.4 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/2-Volume 2D Scan (41x41x1):** Interpolated grid: dx=0.7500 mm, dy=0.7500 mm, dz=1.000 mm

Reference Value = 114.5 V/m; Power Drift = -0.75 dB

Fast SAR: SAR(1 g) = 9.52 W/kg; SAR(10 g) = 6.91 W/kg (SAR corrected for target medium)

Maximum value of SAR (interpolated) = 10.6 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/3-Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 117.5 V/m; Power Drift = -0.40 dB

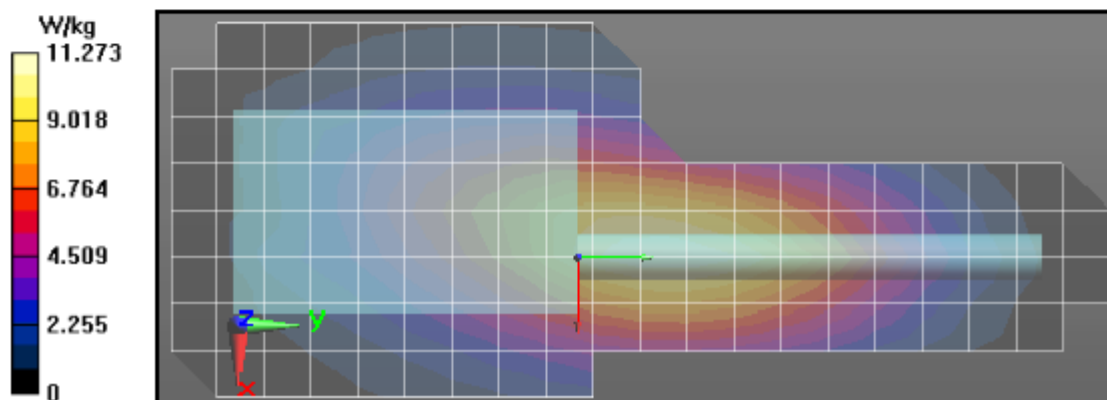
Peak SAR (extrapolated) = 16.0 W/kg

SAR(1 g) = 10.8 W/kg; SAR(10 g) = 7.57 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 12.3 W/kg

**Below 2 GHz-Rev.2 2/Ab Scan/4-Z-Axis Scan (1x1x17):** Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 10.4 W/kg



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

| Scan Description        | Referenced Table | Test Time (min.) | SAR 1g (W/kg) | SAR 10g (W/kg) |
|-------------------------|------------------|------------------|---------------|----------------|
| Shorten scan (zoom)     | 27               | 8                | 5.94          | 4.17           |
| Full scan (area & zoom) | 22               | 28               | 5.84          | 4.08           |

## **APPENDIX G**

### **DUT Test Position Photos**

**Photos available in Exhibit 7B**

## **APPENDIX H**

### **DUT, Body worn and audio accessories Photos**

**Photos available in Exhibit 7B**