### 8 SAR MEASURMENT RESULTS

### 8.1 2.4GHZ BANDS – SMARTANT ANTENNA

# Note: Main antenna was not tested due to the large distance between the antenna and the phantom.



### 8.2 2.4 GHZ BANDS – ACON AND AMPHENOL ANTENNA

|              |  |                                     | WLAN Aux   | Antenna                                       | - CARD THIS   |                     |
|--------------|--|-------------------------------------|--|---|---|---------------------|
|              |  |                                     | Measured SAR   | Power Drift                                   | Extrapolated <sup>1)</sup> SAR                                  |                     |
|              | Channel  | f (MHz)                             | 1g (mW/g)  | (dB)  | 1g (mW/g)   |                     |
|              | 802.11b (1Mb   | ops) - Amph                         | nenol Antenna  |   |   |                     |
|              | 6  | 2437                                | 0.064  | 0.000   | 0.064   |                     |
|              | 802.11b (1Mk   | pps) - Acon                         | Antenna  |   |   |                     |
|              | 6  | 2437                                | 0.152  | -0.173  | 0.158   |                     |
| Notes:<br>1) | The exact method of<br>process by the DASY<br>measurement proces | extrapolation is<br>'4 system can b | s Measured SAR x 10 <sup>A</sup><br>be scaled up by the Po | (-drift/10). The SAF<br>wer drift to determin | R reported at the end of the m<br>ne the SAR at the beginning o | easurement<br>f the |

Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

#### 8.3 **5 GHZ BANDS – AMPHENOL ANTENNA**

|  | WLAI  | N Aux Antenna   |   |  |
|--|---|---|---|--|
|  | F   |   | Ċ   |  |
| Channel  | f (MHz)   | Measured SAR  | Power Drift                                       | Extrapolated <sup>1)</sup> SAR   |
| Channel  | f (MHz)   | Measured SAR<br>1g (mW/g)   | Power Drift<br>(dB)                               | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)                            |
| Channel<br>5.2 GHz - 80  | f (MHz)   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)   | Power Drift<br>(dB)                               | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)                            |
| <b>Channel</b><br>5.2 GHz - 80<br>40   | f (MHz)<br>)2.11a mode<br>5200  | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.296  | Power Drift<br>(dB)<br>-0.106                     | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.303                   |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80  | f (MHz)<br>)2.11a mode<br>5200<br>)2.11a mode   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.296<br>(6 Mbps)<br>0.591                               | Power Drift<br>(dB)<br>-0.106                     | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.303                   |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80                        | f (MHz)<br>)2.11a mode<br>5200<br>)2.11a mode<br>5300<br>)2.11a mode                          | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.296<br>(6 Mbps)<br>0.591<br>(6 Mbps)                   | Power Drift<br>(dB)<br>-0.106<br>-0.088           | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.303<br>0.603          |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80<br>120                 | f (MHz)<br>)2.11a mode<br>5200<br>)2.11a mode<br>5300<br>)2.11a mode<br>5300<br>)2.11a mode   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.296<br>(6 Mbps)<br>0.591<br>(6 Mbps)<br>0.553          | Power Drift<br>(dB)<br>-0.106<br>-0.088           | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.303<br>0.603          |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80<br>120<br>5.8 GHz - 80 | f (MHz)<br>)2.11a mode<br>5200<br>)2.11a mode<br>5300<br>)2.11a mode<br>5600<br>)2.11n HT40 r | Measured SAR   1g (mW/g)   (6 Mbps)   0.296   (6 Mbps)   0.591   (6 Mbps)   0.553   mode (6 Mbps) | Power Drift<br>(dB)<br>-0.106<br>-0.088<br>-0.078 | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.303<br>0.603<br>0.563 |

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional. Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

3)

#### **5 GHZ BANDS – ACON ANTENNA** 8.4

|  | WL  | AN Aux Antenna  |  |  |
|--|---|---|--|--|
|  |   |   | 6  |  |
| Channel  | f (MHz)   | Measured SAR  | Power Drift<br>(dB)                              | Extrapolated <sup>1)</sup> SAR   |
| Channel  | f (MHz)   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)   | Power Drift<br>(dB)                              | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)                            |
| Channel<br>5.2 GHz - 80<br>40  | f (MHz)   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.258  | Power Drift<br>(dB)<br>0.000                     | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258                   |
| <b>Channel</b><br>5.2 GHz - 80<br>40<br>5.3 GHz - 80                                       | f (MHz)<br>2.11a mode<br>5200<br>2.11a mode   | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.258<br>(6 Mbps)  | Power Drift<br>(dB)<br>0.000                     | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258                   |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60  | f (MHz)<br>2.11a mode<br>5200<br>2.11a mode<br>5300                                       | Measured SAR<br>1g (mW/g)<br>(6 Mbps)<br>0.258<br>(6 Mbps)<br>0.504   | Power Drift<br>(dB)<br>0.000<br>-0.139           | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258<br>0.520          |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80                        | f (MHz)<br>2.11a mode<br>5200<br>2.11a mode<br>5300<br>2.11a mode                         | Measured SAR   1g (mW/g)   (6 Mbps)   0.258   (6 Mbps)   0.504   (6 Mbps)                                   | Power Drift<br>(dB)<br>0.000<br>-0.139           | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258<br>0.520          |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80<br>120                 | f (MHz)<br>2.11a mode<br>5200<br>2.11a mode<br>5300<br>2.11a mode<br>5600                 | Measured SAR   1g (mW/g)   (6 Mbps)   0.258   (6 Mbps)   0.504   (6 Mbps)   0.504   (6 Mbps)   0.561        | Power Drift<br>(dB)<br>0.000<br>-0.139<br>-0.071 | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258<br>0.520<br>0.570 |
| Channel<br>5.2 GHz - 80<br>40<br>5.3 GHz - 80<br>60<br>5.5 GHz - 80<br>120<br>5.8 GHz - 80 | f (MHz)<br>2.11a mode<br>5200<br>2.11a mode<br>5300<br>2.11a mode<br>5600<br>2.11n HT40 r | Measured SAR   1g (mW/g)   (6 Mbps)   0.258   (6 Mbps)   0.504   (6 Mbps)   0.504   (6 Mbps)   0.561   node | Power Drift<br>(dB)   0.000   -0.139   -0.071    | Extrapolated <sup>1)</sup> SAR<br>1g (mW/g)<br>0.258<br>0.520<br>0.570 |

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional. Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

3)

#### 8.5 **5 GHZ BANDS – SMARTANT ANTENNA**

| WLAN Aux Antenna   |                                |   |
|--|--------------------------------|---|
| WLAN Aux Antenna   |                                |   |
| WLAN Aux Antenna   |                                |   |
|  | 3 9                            |   |
|  | 30 1/2                         |   |
| and the second sec |                                |   |
|  |                                | 1 |
|  |                                |   |
|  |                                |   |
|  |                                |   |
|  | 201                            |   |
|  |                                |   |
|  |                                |   |
|  |                                | I |
|  | Extrapolated <sup>1)</sup> SAR |   |
| Channel f (MHz) Measured SAR Power Drift   | Extrapolated OAN               |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)  | 1g (mW/g)                      |   |
| Channelf (MHz)Measured SAR<br>1g (mW/g)Power Drift<br>(dB)5.2 GHz - 802.11a mode (6 Mbps)  | 1g (mW/g)                      |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)   5.2 GHz - 802.11a mode (6 Mbps)   40 5200 0.284 -0.116   5.3 GHz - 802 11a mode (6 Mbps)   | 1g (mW/g)                      |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)   5.2 GHz - 802.11a mode (6 Mbps) -0.116   40 5200 0.284 -0.116   5.3 GHz - 802.11a mode (6 Mbps) -0.000 -0.000  | 0.292<br>0.557                 |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)   5.2 GHz - 802.11a mode (6 Mbps) -0.116   40 5200 0.284 -0.116   5.3 GHz - 802.11a mode (6 Mbps) -0.000 -0.557 0.000   5.5 GHz - 802.11a mode (6 Mbps) -0.557 0.000 -0.557  | 0.292<br>0.557                 |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)   5.2 GHz - 802.11a mode (6 Mbps) -0.116   40 5200 0.284 -0.116   5.3 GHz - 802.11a mode (6 Mbps) -0.000 -0.000   60 5300 0.557 0.000   5.5 GHz - 802.11a mode (6 Mbps) -0.153 -0.153  | 0.292<br>0.557<br>0.514        |   |
| Channel f (MHz) Measured SAR<br>1g (mW/g) Power Drift<br>(dB)   5.2 GHz - 802.11a mode (6 Mbps) (dB)   40 5200 0.284 -0.116   5.3 GHz - 802.11a mode (6 Mbps) 60 5300 0.557 0.000   5.5 GHz - 802.11a mode (6 Mbps) 120 5600 0.496 -0.153   5.8 GHz - 802.11n HT40 mode 5600 0.496 -0.153  | 0.292<br>0.557<br>0.514        |   |

The SAR measured at the middle channel for this configuration is at least 3 dB lower (0.8 mW/g) than SAR limit (1.6 2) mW/g), thus testing at low & high channel is optional. Please see attachments for the detailed measurement data and plots showing the maximum SAR location of the EUT.

3)

# 12 PHOTOS

EUT - BCM943322HM8L



# **EUT Location**



# **Antenna Location**



**END OF REPORT**