

### 13. DL/UL carrier aggregation

#### <LTE Carrier Aggregation combinations>

##### General Note:

1. This device supports Carrier Aggregation on Uplink and downlink for inter and intra band. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.
3. The device support 4x4 MIMO in LTE B7/B38/B41, the below DL CA power verification is consider maximum 4x4 combination to be verify, for example: in CA\_7A-7A supports different 4x4 MIMO configuration of 7A, 7A-7A, the DL CA power verification is selected 7A 4x4 + 7A 4x4 to verify uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active

| 2CC Downlink Carrier Aggregation |             |              |             |                                 | 2CC Uplink Carrier Aggregation |             |          |             |                                 |
|----------------------------------|-------------|--------------|-------------|---------------------------------|--------------------------------|-------------|----------|-------------|---------------------------------|
| Number                           | Combination | 4X4 MIMO     | Restriction | Covered by Measurement Superset | Number                         | Combination | 4X4 MIMO | Restriction | Covered by Measurement Superset |
| 1                                | CA_5A-5A    |              |             |                                 | 1                              | CA_7C       | 7C       |             |                                 |
| 2                                | CA_7A-7A    | 7A, 7A-7A    |             |                                 | 2                              | CA_41C      | 41C      |             |                                 |
| 3                                | CA_66A-66A  |              |             |                                 |                                |             |          |             |                                 |
| 4                                | CA_5B       |              |             |                                 |                                |             |          |             |                                 |
| 5                                | CA_7C       |              |             |                                 |                                |             |          |             |                                 |
| 6                                | CA_38C      | 38C          |             |                                 |                                |             |          |             |                                 |
| 7                                | CA_66B      |              |             |                                 |                                |             |          |             |                                 |
| 8                                | CA_66C      |              |             |                                 |                                |             |          |             |                                 |
| 9                                | CA_41A-41A  | 41A, 41A-41A |             |                                 |                                |             |          |             |                                 |
| 10                               | CA_41C      | 41C          |             |                                 |                                |             |          |             |                                 |

**<Power verification for DL Carrier Aggregation>**
**General Note:**

1. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
2. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
3. The device supports downlink two carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
4. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
5. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
6. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

**<Two Carrier power verification>**

| Configure  |                | PCC      |          |                |            |      |        |              | SCC      |          |                |            | Power                  |                       |
|------------|----------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|
|            |                | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Intra-Band | Non-Contiguous | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 5        | 5        | 891.5          | 2625       | 24.29                  | 24.44                 |
|            |                | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 7        | 5        | 2622.5         | 2775       | 24.45                  | 24.37                 |
|            |                | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2197.5         | 67311      | 24.61                  | 24.55                 |
|            |                | 41       | 20       | 2506           | 39750      | QPSK | 1      | 0            | 41       | 20       | 2636.5         | 41055      | 24.59                  | 24.68                 |
|            | Contiguous     | 5        | 10       | 829            | 20450      | QPSK | 1      | 0            | 5        | 5        | 881.2          | 2522       | 24.38                  | 24.44                 |
|            |                | 7        | 20       | 2560           | 21350      | QPSK | 1      | 99           | 7        | 20       | 2660.2         | 3152       | 24.39                  | 24.37                 |
|            |                | 38       | 20       | 2595           | 38000      | QPSK | 1      | 0            | 38       | 20       | 2614.80        | 38198      | 24.88                  | 24.91                 |
|            |                | 66       | 15       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 5        | 2154.30        | 66879      | 24.51                  | 24.55                 |
|            |                | 66       | 20       | 1745           | 132322     | QPSK | 1      | 0            | 66       | 20       | 2164.80        | 66984      | 24.67                  | 24.55                 |
|            |                | 41       | 20       | 2506           | 39750      | QPSK | 1      | 0            | 41       | 20       | 2525.8         | 39948      | 24.75                  | 24.68                 |

**<Uplink Carrier Aggregation Active>**
**<Intra-Band Uplink carrier aggregation>**
**General Note:**

1. The device supports intra-band uplink carrier aggregation for LTE B7/41 with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
2. According TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
3. Uplink CA is only operating with power class3, and additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

**<Standalone>**
**<Head>**

| CA_7C_Ant 0B                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 0C                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 1                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 16.41                | 17                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.49                | 17                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.43                | 17                  |

| CA_41C_Ant 0B                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 0C                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 1                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.44                | 19.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.41                | 19.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.39                | 19.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.42                | 19.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.41                | 19.5                |

**<Body-worn>**

| CA_7C_Ant 0B                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.73                | 22                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.84                | 22                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.71                | 22                  |

| CA_7C_Ant 0C                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 1                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.22                | 23                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.33                | 23                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.3                 | 23                  |

| CA_41C_Ant 0B                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.5                 | 23.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.44                | 23.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.47                | 23.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.39                | 23.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.37                | 23.5                |

| CA_41C_Ant 0C                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 1                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.96                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.91                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.88                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.94                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.95                | 25                  |

**<Simultaneous Transmission is active>**
**<Head>**

| CA_7C_Ant 0B                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 0C                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 1                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 16.41                | 16.5                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.49                | 16.5                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 16.43                | 16.5                |

| CA_41C_Ant 0B                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 0C                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 1                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 18.44                | 18.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.41                | 18.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.39                | 18.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.42                | 18.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 18.41                | 18.5                |

**<Hotspot>**

| CA_7C_Ant 0B                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.77                | 22                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.82                | 22                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.73                | 22                  |

| CA_7C_Ant 0C                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 1                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 20.33                | 20.5                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.43                | 20.5                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 20.4                 | 20.5                |

| CA_41C_Ant 0B                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 22.37                | 22.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.33                | 22.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.31                | 22.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.32                | 22.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 22.26                | 22.5                |

| CA_41C_Ant 0C                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 1                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.5                 | 23.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.42                | 23.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.48                | 23.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.37                | 23.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.39                | 23.5                |

**<Body-worn>**

| CA_7C_Ant 0B                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.77                | 22                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.82                | 22                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.73                | 22                  |

| CA_7C_Ant 0C                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.29                | 25                  |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.8                 | 25                  |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.76                | 25                  |

| CA_7C_Ant 1                           |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 21.22                | 21.5                |
| 21100                                 | 20902       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.33                | 21.5                |
| 21350                                 | 21152       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 21.3                 | 21.5                |

| CA_41C_Ant 0B                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.5                 | 23.5                |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.44                | 23.5                |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.47                | 23.5                |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.39                | 23.5                |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.37                | 23.5                |

| CA_41C_Ant 0C                         |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 24.72                | 25                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.61                | 25                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.58                | 25                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.48                | 25                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 24.51                | 25                  |

| CA_41C_Ant 1                          |             |            |         |           |         |           |               |                       |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 0         | 0       | 0         | 1             | 0                     | 23.96                | 24                  |
| 40185                                 | 39987       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.91                | 24                  |
| 40620                                 | 40422       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.88                | 24                  |
| 41055                                 | 40857       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.94                | 24                  |
| 41490                                 | 41292       | QPSK       | 1       | 0         | 1       | 99        | 2             | 0                     | 23.95                | 24                  |

#### 14. RF Exposure position consideration

| Distance of the Antenna to the EUT surface/edge |        |        |          |             |            |           |
|-------------------------------------------------|--------|--------|----------|-------------|------------|-----------|
| Antennas                                        | Front  | Back   | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Ant 0B                                     | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | ≤ 25mm     | >25mm     |
| WWAN Ant 0C                                     | ≤ 25mm | ≤ 25mm | >25mm    | ≤ 25mm      | >25mm      | ≤ 25mm    |
| WWAN Ant 1                                      | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |
| 2.4GHz WLAN/BT Ant 2                            | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |
| 2.4GHz WLAN Ant 4                               | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | >25mm     |
| 5GHz WLAN Ant 4                                 | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | ≤ 25mm     | >25mm     |
| 5GHz WLAN Ant 5                                 | ≤ 25mm | ≤ 25mm | ≤ 25mm   | >25mm       | >25mm      | ≤ 25mm    |

| Positions for SAR tests; Hotspot mode |       |      |          |             |            |           |
|---------------------------------------|-------|------|----------|-------------|------------|-----------|
| Antennas                              | Front | Back | Top Side | Bottom Side | Right Side | Left Side |
| WWAN Ant 0B                           | Yes   | Yes  | No       | Yes         | Yes        | Yes       |
| WWAN Ant 0C                           | Yes   | Yes  | No       | Yes         | No         | Yes       |
| WWAN Ant 1                            | Yes   | Yes  | Yes      | No          | No         | Yes       |
| 2.4GHz WLAN/BT Ant 2                  | Yes   | Yes  | Yes      | No          | No         | Yes       |
| 2.4GHz WLAN Ant 4                     | Yes   | Yes  | Yes      | No          | Yes        | No        |
| 5GHz WLAN Ant 4                       | Yes   | Yes  | Yes      | No          | Yes        | No        |
| 5GHz WLAN Ant 5                       | Yes   | Yes  | Yes      | No          | No         | Yes       |

##### General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are  $\geq 9\text{cm} \times 5\text{cm}$ , the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge
- The detail antenna location refers to operation description.

## 15. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The Reported TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8\text{W/kg}$ .
3. Per KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is  $> 1.2\text{ W/kg}$ , the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.
4. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension  $> 15.0\text{ cm}$  or an overall diagonal dimension  $> 16.0\text{ cm}$ , when hotspot mode applies, 10-g product specific SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2\text{ W/kg}$ , however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the  $1.2\text{ W/kg}$  SAR test reduction threshold, for this device that the WWAN transmitter in hotspot mode scaled to simultaneous transmission mode power level is less than  $1.2\text{W/kg}$ , therefore extremity SAR is not require when simultaneous transmission is active, For conservative assessment the WWAN transmitter in hotspot mode scaled to standalone power level is higher than  $1.2\text{W/kg}$  of LTE B7/B41 and 2.4GHz WLAN, therefore, extremity SAR is for conservative testing, and simultaneous transmission analysis is not required for these test results.
5. For 5.3GHz / 5.5GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is  $> 16\text{cm}$ .

### GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850/GSM1900 is considered as the primary mode.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}\text{ dB}$  higher than the primary mode, SAR measurement is not required for the secondary mode.

### UMTS Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}\text{ dB}$  higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2\text{ W/kg}$ , SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than  $\frac{1}{4}\text{ dB}$  higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12/B14/B26//B30B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B2/B4/B5/B17/B38 SAR test was covered by B12/B25/B26/B66/B41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. The maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion.
  - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.
8. For UL CA, SAR was first measured with only a single carrier active in the uplink (CA non-active) for each exposure condition; the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when UL CA was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power
9. PC2: Power Class 2

**WLAN Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
6. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6$ W/kg and SAR peak to location ratio  $\leq 0.04$ , no additional SAR measurements for MIMO.
7. When in MIMO SAR testing, if the hot spots are separated the scaling factor would scale each hot spot based on the difference between the power for that transmit antenna and the maximum rated power, if the hot spot were not separable or too much overlap which the scaling factor is the worst case rated power/measured power across the two chains in SAR calculation.
8. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

**15.1 Head SAR**
**<GSM SAR>**

| Standalone                          |               |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|---------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band          | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0                | 0.135                  | 0.160                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.13             | 0.092                  | 0.109                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.1              | 0.263                  | 0.312                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.06             | 0.210                  | 0.249                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 251 | 848.8       | 26.4                | 28.00               | 1.445                  | 0.04             | 0.804                  | 1.162                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 128 | 824.2       | 26.16               | 28.00               | 1.528                  | -0.06            | 0.753                  | 1.150                  |
| 01                                  | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 189 | 836.4       | 26.18               | 28.00               | 1.521                  | 0.03             | 0.768                  | 1.168                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 251 | 848.8       | 26.4                | 28.00               | 1.445                  | 0.02             | 0.334                  | 0.483                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 251 | 848.8       | 26.4                | 28.00               | 1.445                  | -0.08            | 0.683                  | 0.987                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 251 | 848.8       | 26.4                | 28.00               | 1.445                  | -0.11            | 0.458                  | 0.662                  |
| Simultaneous Transmission is active |               |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band          | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0                | 0.135                  | 0.160                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.13             | 0.092                  | 0.109                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.1              | 0.263                  | 0.312                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.06             | 0.210                  | 0.249                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 251 | 848.8       | 26.40               | 27.00               | 1.148                  | 0.04             | 0.804                  | 0.923                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 128 | 824.2       | 26.16               | 27.00               | 1.213                  | -0.06            | 0.753                  | 0.914                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 189 | 836.4       | 26.18               | 27.00               | 1.208                  | 0.03             | 0.768                  | 0.928                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 251 | 848.8       | 26.40               | 27.00               | 1.148                  | 0.02             | 0.334                  | 0.383                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 251 | 848.8       | 26.40               | 27.00               | 1.148                  | -0.08            | 0.683                  | 0.784                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 251 | 848.8       | 26.40               | 27.00               | 1.148                  | -0.11            | 0.458                  | 0.526                  |

| Standalone                          |                |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|----------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band           | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.11             | 0.125                  | 0.166                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.05             | 0.039                  | 0.052                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | -0.02            | 0.063                  | 0.083                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0                | 0.040                  | 0.053                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 512 | 1850.2      | 20.45               | 22.00               | 1.429                  | 0.03             | 0.741                  | 1.059                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 661 | 1880        | 20.29               | 22.00               | 1.483                  | -0.04            | 0.706                  | 1.047                  |
| 02                                  | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 810 | 1909.8      | 20.38               | 22.00               | 1.452                  | 0.15             | 0.735                  | 1.067                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Tilted  | 0mm      | 512 | 1850.2      | 20.45               | 22.00               | 1.429                  | 0.11             | 0.572                  | 0.817                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Tilted  | 0mm      | 661 | 1880        | 20.29               | 22.00               | 1.483                  | -0.15            | 0.534                  | 0.792                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Tilted  | 0mm      | 810 | 1909.8      | 20.38               | 22.00               | 1.452                  | 0.08             | 0.521                  | 0.757                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Cheek    | 0mm      | 512 | 1850.2      | 20.45               | 22.00               | 1.429                  | -0.02            | 0.548                  | 0.783                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Tilted   | 0mm      | 512 | 1850.2      | 20.45               | 22.00               | 1.429                  | 0.16             | 0.594                  | 0.849                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Tilted   | 0mm      | 661 | 1880        | 20.29               | 22.00               | 1.483                  | 0.07             | 0.543                  | 0.805                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Tilted   | 0mm      | 810 | 1909.8      | 20.38               | 22.00               | 1.452                  | 0.03             | 0.529                  | 0.768                  |
| Simultaneous Transmission is active |                |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band           | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Right Cheek   | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.11             | 0.125                  | 0.166                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Right Tilted  | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.05             | 0.039                  | 0.052                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Left Cheek    | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | -0.02            | 0.063                  | 0.083                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Left Tilted   | 0mm      | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0                | 0.040                  | 0.053                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 512 | 1850.2      | 20.45               | 21.50               | 1.274                  | 0.03             | 0.741                  | 0.944                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 661 | 1880        | 20.29               | 21.50               | 1.321                  | -0.04            | 0.706                  | 0.933                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Cheek   | 0mm      | 810 | 1909.8      | 20.38               | 21.50               | 1.294                  | 0.15             | 0.735                  | 0.951                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Right Tilted  | 0mm      | 512 | 1850.2      | 20.45               | 21.50               | 1.274                  | 0.11             | 0.572                  | 0.728                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Cheek    | 0mm      | 512 | 1850.2      | 20.45               | 21.50               | 1.274                  | -0.02            | 0.548                  | 0.698                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slot)  | Left Tilted   | 0mm      | 512 | 1850.2      | 20.45               | 21.50               | 1.274                  | 0.16             | 0.594                  | 0.756                  |

**<WCDMA SAR>**

| Standalone                          |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Right Cheek   | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | 0.06             | 0.275                  | 0.317                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Right Tilted  | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | 0.09             | 0.050                  | 0.058                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Left Cheek    | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | -0.1             | 0.088                  | 0.102                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Left Tilted   | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | -0.08            | 0.043                  | 0.050                  |
| 03                                  | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9400 | 1880        | 16.24               | 17.00               | 1.191                  | 0.19             | 0.907                  | 1.080                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9262 | 1852.4      | 16.16               | 17.00               | 1.213                  | 0.02             | 0.838                  | 1.017                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9538 | 1907.6      | 16.18               | 17.00               | 1.208                  | 0.01             | 0.879                  | 1.062                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9400 | 1880        | 16.24               | 17.00               | 1.191                  | 0.1              | 0.809                  | 0.964                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9262 | 1852.4      | 16.16               | 17.00               | 1.213                  | 0.06             | 0.713                  | 0.865                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9538 | 1907.6      | 16.18               | 17.00               | 1.208                  | 0.05             | 0.806                  | 0.973                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 9400 | 1880        | 16.24               | 17.00               | 1.191                  | -0.05            | 0.383                  | 0.456                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 9400 | 1880        | 16.24               | 17.00               | 1.191                  | -0.04            | 0.482                  | 0.574                  |
| Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Right Cheek   | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | 0.06             | 0.275                  | 0.317                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Right Tilted  | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | 0.09             | 0.050                  | 0.058                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Left Cheek    | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | -0.1             | 0.088                  | 0.102                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Left Tilted   | 0mm      | 9400 | 1880        | 24.38               | 25.00               | 1.153                  | -0.08            | 0.043                  | 0.050                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9400 | 1880        | 16.24               | 16.50               | 1.062                  | 0.19             | 0.907                  | 0.963                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9262 | 1852.4      | 16.16               | 16.50               | 1.081                  | 0.02             | 0.838                  | 0.906                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 9538 | 1907.6      | 16.18               | 16.50               | 1.076                  | 0.01             | 0.879                  | 0.946                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9400 | 1880        | 16.24               | 16.50               | 1.062                  | 0.1              | 0.809                  | 0.859                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9262 | 1852.4      | 16.16               | 16.50               | 1.081                  | 0.06             | 0.713                  | 0.771                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 9538 | 1907.6      | 16.18               | 16.50               | 1.076                  | 0.05             | 0.806                  | 0.868                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 9400 | 1880        | 16.24               | 16.50               | 1.062                  | -0.05            | 0.383                  | 0.407                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 9400 | 1880        | 16.24               | 16.50               | 1.062                  | -0.04            | 0.482                  | 0.512                  |



| Standalone                          |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0                | 0.219                  | 0.254                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.13            | 0.057                  | 0.066                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Left Cheek    | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.11             | 0.118                  | 0.137                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.17             | 0.055                  | 0.064                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0                | 0.208                  | 0.242                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.1              | 0.197                  | 0.229                  |
|                                     | WCDMA IV_Ant 0C | RMC12.2Kbps  | Left Cheek    | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.03             | 0.397                  | 0.461                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.01            | 0.258                  | 0.300                  |
| 04                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 17.19               | 18.00               | 1.205                  | -0.03            | 0.853                  | 1.028                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1312 | 1712.4      | 17.18               | 18.00               | 1.208                  | -0.01            | 0.831                  | 1.004                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1513 | 1752.6      | 17.15               | 18.00               | 1.216                  | -0.01            | 0.840                  | 1.022                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 17.19               | 18.00               | 1.205                  | 0.01             | 0.814                  | 0.981                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1312 | 1712.4      | 17.18               | 18.00               | 1.208                  | 0.06             | 0.790                  | 0.954                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1513 | 1752.6      | 17.15               | 18.00               | 1.216                  | -0.01            | 0.818                  | 0.995                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 1413 | 1732.6      | 17.19               | 18.00               | 1.205                  | 0                | 0.450                  | 0.542                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 17.19               | 18.00               | 1.205                  | -0.01            | 0.596                  | 0.718                  |
| Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0                | 0.219                  | 0.254                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.13            | 0.057                  | 0.066                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Left Cheek    | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.11             | 0.118                  | 0.137                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.17             | 0.055                  | 0.064                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0                | 0.208                  | 0.242                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.1              | 0.197                  | 0.229                  |
|                                     | WCDMA IV_Ant 0C | RMC12.2Kbps  | Left Cheek    | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.03             | 0.397                  | 0.461                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.01            | 0.258                  | 0.300                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1413 | 1732.6      | 17.19               | 17.50               | 1.074                  | -0.03            | 0.853                  | 0.916                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1312 | 1712.4      | 17.18               | 17.50               | 1.076                  | -0.01            | 0.831                  | 0.895                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 1513 | 1752.6      | 17.15               | 17.50               | 1.084                  | -0.01            | 0.840                  | 0.910                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1413 | 1732.6      | 17.19               | 17.50               | 1.074                  | 0.01             | 0.814                  | 0.874                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1312 | 1712.4      | 17.18               | 17.50               | 1.076                  | 0.06             | 0.790                  | 0.850                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 1513 | 1752.6      | 17.15               | 17.50               | 1.084                  | -0.01            | 0.818                  | 0.887                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 1413 | 1732.6      | 17.19               | 17.50               | 1.074                  | 0                | 0.450                  | 0.483                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 1413 | 1732.6      | 17.19               | 17.50               | 1.074                  | -0.01            | 0.596                  | 0.640                  |

| Standalone                          |                |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band           | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Right Cheek   | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | -0.03            | 0.170                  | 0.212                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Right Tilted  | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.04             | 0.128                  | 0.159                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.09             | 0.374                  | 0.465                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Left Tilted   | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.11             | 0.226                  | 0.281                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4233 | 846.6       | 21.51               | 22.50               | 1.256                  | 0.06             | 0.850                  | 1.068                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4132 | 826.4       | 21.49               | 22.50               | 1.262                  | -0.01            | 0.833                  | 1.051                  |
| 05                                  | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4182 | 836.4       | 21.46               | 22.50               | 1.271                  | 0.06             | 0.842                  | 1.070                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 4233 | 846.6       | 21.51               | 22.50               | 1.256                  | 0.05             | 0.345                  | 0.433                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 21.51               | 22.50               | 1.256                  | 0.02             | 0.691                  | 0.868                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 21.49               | 22.50               | 1.262                  | -0.08            | 0.664                  | 0.838                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 21.46               | 22.50               | 1.271                  | -0.01            | 0.638                  | 0.811                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 4233 | 846.6       | 21.51               | 22.50               | 1.256                  | -0.14            | 0.552                  | 0.693                  |
| Simultaneous Transmission is active |                |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band           | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Right Cheek   | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | -0.03            | 0.170                  | 0.212                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Right Tilted  | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.04             | 0.128                  | 0.159                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.09             | 0.374                  | 0.465                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Left Tilted   | 0mm      | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.11             | 0.226                  | 0.281                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4233 | 846.6       | 21.51               | 22.00               | 1.119                  | 0.06             | 0.850                  | 0.952                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4132 | 826.4       | 21.49               | 22.00               | 1.125                  | -0.01            | 0.833                  | 0.937                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Cheek   | 0mm      | 4182 | 836.4       | 21.46               | 22.00               | 1.132                  | 0.06             | 0.842                  | 0.953                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Tilted  | 0mm      | 4233 | 846.6       | 21.51               | 22.00               | 1.119                  | 0.05             | 0.345                  | 0.386                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Cheek    | 0mm      | 4233 | 846.6       | 21.51               | 22.00               | 1.119                  | 0.02             | 0.691                  | 0.774                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Tilted   | 0mm      | 4233 | 846.6       | 21.51               | 22.00               | 1.119                  | -0.14            | 0.552                  | 0.618                  |

### <FDD LTE SAR>

| Standalone / Simultaneous Transmission is active |                   |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|-------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | -0.06            | 0.173                  | 0.198                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.11            | 0.139                  | 0.157                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | -0.05            | 0.171                  | 0.195                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | 0.03             | 0.137                  | 0.154                  |
| 06                                               | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | -0.02            | 0.387                  | 0.442                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | 0.02             | 0.313                  | 0.353                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.1              | 0.206                  | 0.235                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.06            | 0.165                  | 0.186                  |



| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.14             | 0.731                  | 0.845                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 20850 | 2510        | 24.32               | 25.00               | 1.169                  | 0.15             | 0.701                  | 0.820                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21100 | 2535        | 24.30               | 25.00               | 1.175                  | 0.05             | 0.676                  | 0.794                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.12            | 0.584                  | 0.666                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 21350 | 2560        | 23.41               | 24.00               | 1.146                  | -0.06            | 0.575                  | 0.659                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.19            | 0.196                  | 0.227                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.11             | 0.158                  | 0.180                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.08             | 0.467                  | 0.540                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.03             | 0.376                  | 0.429                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.04             | 0.291                  | 0.336                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.15            | 0.234                  | 0.267                  |
|                                     | LTE Band 7C_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 21100 | 2535        | 23.80               | 25.00               | 1.318                  | 0.14             | 0.629                  | 0.829                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.01             | 0.162                  | 0.187                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.12             | 0.130                  | 0.148                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.08             | 0.087                  | 0.101                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.08            | 0.070                  | 0.080                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.09             | 0.460                  | 0.532                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.15            | 0.367                  | 0.418                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.12            | 0.122                  | 0.141                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.17            | 0.098                  | 0.112                  |
|                                     | LTE Band 7C_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 21100 | 2535        | 23.8                | 25.00               | 1.318                  | 0.12             | 0.396                  | 0.522                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21350 | 2560        | 16.39               | 17.00               | 1.151                  | 0.11             | 0.859                  | 0.988                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 20850 | 2510        | 16.31               | 17.00               | 1.172                  | 0.12             | 0.823                  | 0.965                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21100 | 2535        | 16.32               | 17.00               | 1.169                  | 0.09             | 0.831                  | 0.972                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 21350 | 2560        | 16.27               | 17.00               | 1.183                  | 0.18             | 0.806                  | 0.954                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 20850 | 2510        | 16.07               | 17.00               | 1.239                  | 0                | 0.801                  | 0.992                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 21100 | 2535        | 16.19               | 17.00               | 1.205                  | 0.14             | 0.809                  | 0.975                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 21350 | 2560        | 16.23               | 17.00               | 1.194                  | 0                | 0.813                  | 0.971                  |
| 07                                  | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 21350 | 2560        | 16.39               | 17.00               | 1.151                  | -0.03            | 0.961                  | 1.106                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 20850 | 2510        | 16.31               | 17.00               | 1.172                  | -0.01            | 0.877                  | 1.028                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 21100 | 2535        | 16.32               | 17.00               | 1.169                  | 0                | 0.854                  | 0.999                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 21350 | 2560        | 16.27               | 17.00               | 1.183                  | 0.01             | 0.931                  | 1.101                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 20850 | 2510        | 16.07               | 17.00               | 1.239                  | -0.09            | 0.891                  | 1.104                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Tilted  | 0mm      | 21100 | 2535        | 16.19               | 17.00               | 1.205                  | -0.08            | 0.914                  | 1.101                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 21350 | 2560        | 16.23               | 17.00               | 1.194                  | 0                | 0.899                  | 1.073                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Left Cheek    | 0mm      | 21350 | 2560        | 16.39               | 17.00               | 1.151                  | 0.1              | 0.646                  | 0.744                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Left Cheek    | 0mm      | 21350 | 2560        | 16.27               | 17.00               | 1.183                  | 0.03             | 0.653                  | 0.773                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | 21350 | 2560        | 16.39               | 17.00               | 1.151                  | 0.03             | 0.746                  | 0.858                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | 20850 | 2510        | 16.31               | 17.00               | 1.172                  | -0.07            | 0.728                  | 0.853                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Left Tilted   | 0mm      | 21100 | 2535        | 16.32               | 17.00               | 1.169                  | -0.01            | 0.711                  | 0.832                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Left Tilted   | 0mm      | 21350 | 2560        | 16.27               | 17.00               | 1.183                  | 0.07             | 0.673                  | 0.797                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Left Tilted   | 0mm      | 21350 | 2560        | 16.23               | 17.00               | 1.194                  | -0.1             | 0.666                  | 0.795                  |
|                                     | LTE Band 7C_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 21100 | 2535        | 16.49               | 17.00               | 1.125                  | -0.02            | 0.964                  | 1.084                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.14             | 0.731                  | 0.845                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 20850 | 2510        | 24.32               | 25.00               | 1.169                  | 0.15             | 0.701                  | 0.820                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Cheek   | 0mm      | 21100 | 2535        | 24.3                | 25.00               | 1.175                  | 0.05             | 0.676                  | 0.794                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Cheek   | 0mm      | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.12            | 0.584                  | 0.666                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 21350 | 2560        | 23.41               | 24.00               | 1.146                  | -0.06            | 0.575                  | 0.659                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Tilted  | 0mm      | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.19            | 0.196                  | 0.227                  |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|  |                    |     |      |     |    |              |     |       |      |       |       |       |       |       |       |
|--|--------------------|-----|------|-----|----|--------------|-----|-------|------|-------|-------|-------|-------|-------|-------|
|  | LTE Band 7_Ant 0B  | 20M | QPSK | 50  | 50 | Right Tilted | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | 0.11  | 0.158 | 0.180 |
|  | LTE Band 7_Ant 0B  | 20M | QPSK | 1   | 99 | Left Cheek   | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | 0.08  | 0.467 | 0.540 |
|  | LTE Band 7_Ant 0B  | 20M | QPSK | 50  | 50 | Left Cheek   | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | 0.03  | 0.376 | 0.429 |
|  | LTE Band 7_Ant 0B  | 20M | QPSK | 1   | 99 | Left Tilted  | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | 0.04  | 0.291 | 0.336 |
|  | LTE Band 7_Ant 0B  | 20M | QPSK | 50  | 50 | Left Tilted  | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | -0.15 | 0.234 | 0.267 |
|  | LTE Band 7C_Ant 0B | 20M | QPSK | 1   | 0  | Right Cheek  | 0mm | 21100 | 2535 | 23.8  | 25.00 | 1.318 | 0.14  | 0.629 | 0.829 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 1   | 99 | Right Cheek  | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | 0.01  | 0.162 | 0.187 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 50  | 50 | Right Cheek  | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | 0.12  | 0.130 | 0.148 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 1   | 99 | Right Tilted | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | 0.08  | 0.087 | 0.101 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 50  | 50 | Right Tilted | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | -0.08 | 0.070 | 0.080 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 1   | 99 | Left Cheek   | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | 0.09  | 0.460 | 0.532 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 50  | 50 | Left Cheek   | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | -0.15 | 0.367 | 0.418 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 1   | 99 | Left Tilted  | 0mm | 21350 | 2560 | 24.37 | 25.00 | 1.156 | -0.12 | 0.122 | 0.141 |
|  | LTE Band 7_Ant 0C  | 20M | QPSK | 50  | 50 | Left Tilted  | 0mm | 21350 | 2560 | 23.43 | 24.00 | 1.140 | -0.17 | 0.098 | 0.112 |
|  | LTE Band 7C_Ant 0C | 20M | QPSK | 1   | 0  | Left Cheek   | 0mm | 21100 | 2535 | 23.8  | 25.00 | 1.318 | 0.12  | 0.396 | 0.522 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Cheek  | 0mm | 21350 | 2560 | 16.39 | 16.50 | 1.026 | 0.11  | 0.859 | 0.881 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Cheek  | 0mm | 20850 | 2510 | 16.31 | 16.50 | 1.045 | 0.12  | 0.823 | 0.860 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Cheek  | 0mm | 21100 | 2535 | 16.32 | 16.50 | 1.042 | 0.09  | 0.831 | 0.866 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Cheek  | 0mm | 21350 | 2560 | 16.27 | 16.50 | 1.054 | 0.18  | 0.806 | 0.850 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Cheek  | 0mm | 20850 | 2510 | 16.07 | 16.50 | 1.104 | 0     | 0.801 | 0.884 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Cheek  | 0mm | 21100 | 2535 | 16.19 | 16.50 | 1.074 | 0.14  | 0.809 | 0.869 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 100 | 0  | Right Cheek  | 0mm | 21350 | 2560 | 16.23 | 16.50 | 1.064 | 0     | 0.813 | 0.865 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Tilted | 0mm | 21350 | 2560 | 16.39 | 16.50 | 1.026 | -0.03 | 0.961 | 0.986 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Tilted | 0mm | 20850 | 2510 | 16.31 | 16.50 | 1.045 | -0.01 | 0.877 | 0.916 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Right Tilted | 0mm | 21100 | 2535 | 16.32 | 16.50 | 1.042 | 0     | 0.854 | 0.890 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Tilted | 0mm | 21350 | 2560 | 16.27 | 16.50 | 1.054 | 0.01  | 0.931 | 0.982 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Tilted | 0mm | 20850 | 2510 | 16.07 | 16.50 | 1.104 | -0.09 | 0.891 | 0.984 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Right Tilted | 0mm | 21100 | 2535 | 16.19 | 16.50 | 1.074 | -0.08 | 0.914 | 0.982 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 100 | 0  | Right Tilted | 0mm | 21350 | 2560 | 16.23 | 16.50 | 1.064 | 0     | 0.899 | 0.957 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Left Cheek   | 0mm | 21350 | 2560 | 16.39 | 16.50 | 1.026 | 0.1   | 0.646 | 0.663 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Left Cheek   | 0mm | 21350 | 2560 | 16.27 | 16.50 | 1.054 | 0.03  | 0.653 | 0.689 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 1   | 99 | Left Tilted  | 0mm | 21350 | 2560 | 16.39 | 16.50 | 1.026 | 0.03  | 0.746 | 0.765 |
|  | LTE Band 7_Ant 1   | 20M | QPSK | 50  | 50 | Left Tilted  | 0mm | 21350 | 2560 | 16.27 | 16.50 | 1.054 | 0.07  | 0.673 | 0.710 |
|  | LTE Band 7C_Ant 1  | 20M | QPSK | 1   | 0  | Right Tilted | 0mm | 21100 | 2535 | 16.49 | 16.50 | 1.002 | -0.02 | 0.964 | 0.966 |



| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.08             | 0.177                  | 0.201                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.1              | 0.145                  | 0.160                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.01            | 0.142                  | 0.161                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.115                  | 0.127                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.04            | 0.244                  | 0.277                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.200                  | 0.221                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0                | 0.162                  | 0.184                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.12             | 0.131                  | 0.145                  |
| 08                                  | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.41               | 24.00               | 1.146                  | 0.12             | 0.935                  | 1.071                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.40               | 24.00               | 1.148                  | 0.06             | 0.917                  | 1.053                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.38               | 24.00               | 1.153                  | 0.01             | 0.908                  | 1.047                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23095 | 707.5       | 23.41               | 24.00               | 1.146                  | -0.03            | 0.678                  | 0.777                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23095 | 707.5       | 23.40               | 24.00               | 1.148                  | 0.11             | 0.634                  | 0.728                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23095 | 707.5       | 23.41               | 24.00               | 1.146                  | -0.05            | 0.517                  | 0.592                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23095 | 707.5       | 23.40               | 24.00               | 1.148                  | 0.02             | 0.499                  | 0.573                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23095 | 707.5       | 23.41               | 24.00               | 1.146                  | -0.18            | 0.402                  | 0.460                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23095 | 707.5       | 23.4                | 24.00               | 1.148                  | 0.03             | 0.393                  | 0.451                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Right Cheek   | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.08             | 0.177                  | 0.201                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Right Cheek   | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.1              | 0.145                  | 0.160                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Right Tilted  | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.01            | 0.142                  | 0.161                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Right Tilted  | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.115                  | 0.127                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Left Cheek    | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.04            | 0.244                  | 0.277                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Left Cheek    | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.200                  | 0.221                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Left Tilted   | 0mm      | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0                | 0.162                  | 0.184                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Left Tilted   | 0mm      | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.12             | 0.131                  | 0.145                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.41               | 23.50               | 1.021                  | 0.12             | 0.935                  | 0.955                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.40               | 23.50               | 1.023                  | 0.06             | 0.917                  | 0.938                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 23095 | 707.5       | 23.38               | 23.50               | 1.028                  | 0.01             | 0.908                  | 0.933                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23095 | 707.5       | 23.41               | 23.50               | 1.021                  | -0.03            | 0.678                  | 0.692                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23095 | 707.5       | 23.40               | 23.50               | 1.023                  | 0.11             | 0.634                  | 0.649                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23095 | 707.5       | 23.41               | 23.50               | 1.021                  | -0.05            | 0.517                  | 0.528                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23095 | 707.5       | 23.40               | 23.50               | 1.023                  | 0.02             | 0.499                  | 0.511                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23095 | 707.5       | 23.41               | 23.50               | 1.021                  | -0.18            | 0.402                  | 0.410                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23095 | 707.5       | 23.40               | 23.50               | 1.023                  | 0.03             | 0.393                  | 0.402                  |



| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.07            | 0.197                  | 0.226                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.03             | 0.159                  | 0.179                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.18            | 0.163                  | 0.187                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.11            | 0.132                  | 0.148                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.04            | 0.293                  | 0.336                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.11            | 0.237                  | 0.267                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.15             | 0.222                  | 0.254                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.13             | 0.179                  | 0.201                  |
| 09                                  | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.44               | 24.00               | 1.138                  | 0.14             | 0.937                  | 1.066                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.39               | 24.00               | 1.151                  | 0                | 0.920                  | 1.059                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.44               | 24.00               | 1.138                  | 0.03             | 0.683                  | 0.777                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.39               | 24.00               | 1.151                  | -0.05            | 0.656                  | 0.755                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.44               | 24.00               | 1.138                  | 0.05             | 0.617                  | 0.702                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.39               | 24.00               | 1.151                  | 0.14             | 0.609                  | 0.701                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.44               | 24.00               | 1.138                  | -0.09            | 0.462                  | 0.526                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.39               | 24.00               | 1.151                  | 0.18             | 0.452                  | 0.520                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.07            | 0.197                  | 0.226                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.03             | 0.159                  | 0.179                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.18            | 0.163                  | 0.187                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.11            | 0.132                  | 0.148                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.04            | 0.293                  | 0.336                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.11            | 0.237                  | 0.267                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.15             | 0.222                  | 0.254                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.13             | 0.179                  | 0.201                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.44               | 23.50               | 1.014                  | 0.14             | 0.937                  | 0.950                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Cheek   | 0mm      | 23230 | 782         | 23.39               | 23.50               | 1.026                  | 0                | 0.920                  | 0.944                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.44               | 23.50               | 1.014                  | 0.03             | 0.683                  | 0.693                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Tilted  | 0mm      | 23230 | 782         | 23.39               | 23.50               | 1.026                  | -0.05            | 0.656                  | 0.673                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.44               | 23.50               | 1.014                  | 0.05             | 0.617                  | 0.626                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Cheek    | 0mm      | 23230 | 782         | 23.39               | 23.50               | 1.026                  | 0.14             | 0.609                  | 0.625                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.44               | 23.50               | 1.014                  | -0.09            | 0.462                  | 0.468                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Tilted   | 0mm      | 23230 | 782         | 23.39               | 23.50               | 1.026                  | 0.18             | 0.452                  | 0.464                  |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | -0.05            | 0.259                  | 0.284                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | -0.06            | 0.209                  | 0.227                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | -0.18            | 0.055                  | 0.060                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | -0.11            | 0.043                  | 0.047                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | 0                | 0.089                  | 0.098                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | 0.06             | 0.073                  | 0.079                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | 0.02             | 0.038                  | 0.042                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | 0.08             | 0.030                  | 0.033                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.32               | 17.00               | 1.169                  | 0.11             | 0.965                  | 1.129                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26140 | 1860        | 16.07               | 17.00               | 1.239                  | 0.12             | 0.887                  | 1.099                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 16.25               | 17.00               | 1.189                  | -0.11            | 0.910                  | 1.082                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.26               | 17.00               | 1.186                  | 0.12             | 0.969                  | 1.149                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26140 | 1860        | 16.05               | 17.00               | 1.245                  | 0.02             | 0.900                  | 1.120                  |
| 10                                  | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 16.21               | 17.00               | 1.199                  | 0.05             | 0.992                  | 1.190                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.22               | 17.00               | 1.197                  | 0.06             | 0.969                  | 1.160                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.32               | 17.00               | 1.169                  | -0.04            | 0.782                  | 0.915                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26140 | 1860        | 16.07               | 17.00               | 1.239                  | -0.05            | 0.650                  | 0.805                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 16.25               | 17.00               | 1.189                  | 0.05             | 0.753                  | 0.895                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.26               | 17.00               | 1.186                  | -0.04            | 0.773                  | 0.917                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26140 | 1860        | 16.05               | 17.00               | 1.245                  | -0.07            | 0.672                  | 0.836                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 16.21               | 17.00               | 1.199                  | 0.1              | 0.760                  | 0.912                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.26               | 17.00               | 1.186                  | 0.14             | 0.780                  | 0.925                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26590 | 1905        | 16.32               | 17.00               | 1.169                  | -0.17            | 0.427                  | 0.499                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26590 | 1905        | 16.26               | 17.00               | 1.186                  | -0.05            | 0.404                  | 0.479                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26590 | 1905        | 16.32               | 17.00               | 1.169                  | 0.03             | 0.545                  | 0.637                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 26590 | 1905        | 16.26               | 17.00               | 1.186                  | -0.01            | 0.545                  | 0.646                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | -0.05            | 0.259                  | 0.284                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | -0.06            | 0.209                  | 0.227                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | -0.18            | 0.055                  | 0.060                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | -0.11            | 0.043                  | 0.047                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | 0                | 0.089                  | 0.098                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | 0.06             | 0.073                  | 0.079                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26340 | 1880        | 24.6                | 25.00               | 1.096                  | 0.02             | 0.038                  | 0.042                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 26340 | 1880        | 23.65               | 24.00               | 1.084                  | 0.08             | 0.030                  | 0.033                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.32               | 16.50               | 1.042                  | 0.11             | 0.905                  | 0.943                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26140 | 1860        | 16.07               | 16.50               | 1.104                  | 0.12             | 0.827                  | 0.913                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 16.25               | 16.50               | 1.059                  | -0.11            | 0.850                  | 0.900                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.26               | 16.50               | 1.057                  | 0.12             | 0.909                  | 0.961                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | 0.02             | 0.840                  | 0.932                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26340 | 1880        | 16.25               | 16.50               | 1.059                  | 0.05             | 0.932                  | 0.987                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.22               | 16.50               | 1.067                  | 0.06             | 0.919                  | 0.980                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.32               | 16.50               | 1.042                  | -0.04            | 0.782                  | 0.815                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26140 | 1860        | 16.07               | 16.50               | 1.104                  | -0.05            | 0.650                  | 0.718                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 16.25               | 16.50               | 1.059                  | 0.05             | 0.753                  | 0.798                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.26               | 16.50               | 1.057                  | -0.04            | 0.773                  | 0.817                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26140 | 1860        | 16.05               | 16.50               | 1.109                  | -0.07            | 0.672                  | 0.745                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26340 | 1880        | 16.25               | 16.50               | 1.059                  | 0.1              | 0.760                  | 0.805                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 26590 | 1905        | 16.26               | 16.50               | 1.057                  | 0.14             | 0.780                  | 0.824                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26590 | 1905        | 16.32               | 16.50               | 1.042                  | -0.17            | 0.427                  | 0.445                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26590 | 1905        | 16.26               | 16.50               | 1.057                  | -0.05            | 0.404                  | 0.427                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26590 | 1905        | 16.32               | 16.50               | 1.042                  | 0.03             | 0.545                  | 0.568                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26590 | 1905        | 16.26               | 16.50               | 1.057                  | -0.01            | 0.545                  | 0.576                  |

| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.04             | 0.193                  | 0.221                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.15            | 0.158                  | 0.176                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.13             | 0.140                  | 0.160                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.05            | 0.113                  | 0.126                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.08             | 0.356                  | 0.408                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.03             | 0.286                  | 0.319                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.11            | 0.236                  | 0.270                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.09             | 0.193                  | 0.216                  |
| 11                                  | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 23.06               | 24.00               | 1.242                  | 0.07             | 0.841                  | 1.044                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 22.74               | 24.00               | 1.337                  | 0.04             | 0.737                  | 0.985                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 75      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 22.71               | 24.00               | 1.346                  | 0.01             | 0.711                  | 0.957                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 23.06               | 24.00               | 1.242                  | -0.01            | 0.469                  | 0.582                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 22.74               | 24.00               | 1.337                  | 0.15             | 0.382                  | 0.511                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 23.06               | 24.00               | 1.242                  | -0.05            | 0.621                  | 0.771                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 22.74               | 24.00               | 1.337                  | -0.06            | 0.508                  | 0.679                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 23.06               | 24.00               | 1.242                  | 0.07             | 0.538                  | 0.668                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 22.74               | 24.00               | 1.337                  | 0.13             | 0.482                  | 0.644                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.04             | 0.193                  | 0.221                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.15            | 0.158                  | 0.176                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.13             | 0.140                  | 0.160                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.05            | 0.113                  | 0.126                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.08             | 0.356                  | 0.408                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.03             | 0.286                  | 0.319                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.11            | 0.236                  | 0.270                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.09             | 0.193                  | 0.216                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 23.06               | 23.50               | 1.107                  | 0.07             | 0.841                  | 0.931                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 22.74               | 23.50               | 1.191                  | 0.04             | 0.737                  | 0.878                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 75      | 0         | Right Cheek   | 0mm      | 26865 | 831.5       | 22.71               | 23.50               | 1.199                  | 0.01             | 0.711                  | 0.853                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 23.06               | 23.50               | 1.107                  | -0.01            | 0.469                  | 0.519                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 26865 | 831.5       | 22.74               | 23.50               | 1.191                  | 0.15             | 0.382                  | 0.455                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 23.06               | 23.50               | 1.107                  | -0.05            | 0.621                  | 0.687                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 26865 | 831.5       | 22.74               | 23.50               | 1.191                  | -0.06            | 0.508                  | 0.605                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 23.06               | 23.50               | 1.107                  | 0.07             | 0.538                  | 0.595                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 26865 | 831.5       | 22.74               | 23.50               | 1.191                  | 0.13             | 0.482                  | 0.574                  |



| Standalone                          |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.02             | 0.209                  | 0.232                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0.01             | 0.171                  | 0.184                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.04            | 0.058                  | 0.064                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.02            | 0.047                  | 0.051                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.07             | 0.131                  | 0.145                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0                | 0.095                  | 0.102                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0                | 0.052                  | 0.058                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.1             | 0.042                  | 0.045                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.96               | 19.00               | 1.271                  | 0.03             | 0.789                  | 1.002                  |
| 12                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132072 | 1720        | 17.81               | 19.00               | 1.315                  | -0.02            | 0.819                  | 1.077                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132572 | 1770        | 17.85               | 19.00               | 1.303                  | -0.04            | 0.806                  | 1.050                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.89               | 19.00               | 1.291                  | 0.06             | 0.787                  | 1.016                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132072 | 1720        | 17.79               | 19.00               | 1.321                  | -0.11            | 0.811                  | 1.072                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132572 | 1770        | 17.81               | 19.00               | 1.315                  | 0.01             | 0.813                  | 1.069                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.77               | 19.00               | 1.327                  | 0.1              | 0.802                  | 1.065                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 17.96               | 19.00               | 1.271                  | 0.06             | 0.584                  | 0.742                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 17.89               | 19.00               | 1.291                  | -0.05            | 0.591                  | 0.763                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 17.96               | 19.00               | 1.271                  | 0.05             | 0.563                  | 0.715                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 17.89               | 19.00               | 1.291                  | -0.17            | 0.571                  | 0.737                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 17.96               | 19.00               | 1.271                  | 0.13             | 0.603                  | 0.766                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 17.89               | 19.00               | 1.291                  | -0.05            | 0.599                  | 0.773                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.02             | 0.209                  | 0.232                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0.01             | 0.171                  | 0.184                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.04            | 0.058                  | 0.064                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.02            | 0.047                  | 0.051                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.07             | 0.131                  | 0.145                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0                | 0.095                  | 0.102                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0                | 0.052                  | 0.058                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.1             | 0.042                  | 0.045                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.96               | 18.50               | 1.132                  | 0.03             | 0.789                  | 0.893                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132072 | 1720        | 17.81               | 18.50               | 1.172                  | -0.02            | 0.819                  | 0.960                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132572 | 1770        | 17.85               | 18.50               | 1.161                  | -0.04            | 0.806                  | 0.936                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.89               | 18.50               | 1.151                  | 0.06             | 0.787                  | 0.906                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132072 | 1720        | 17.79               | 18.50               | 1.178                  | -0.11            | 0.811                  | 0.955                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132572 | 1770        | 17.81               | 18.50               | 1.172                  | 0.01             | 0.813                  | 0.953                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 132322 | 1745        | 17.77               | 18.50               | 1.183                  | 0.1              | 0.802                  | 0.949                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 17.96               | 18.50               | 1.132                  | 0.06             | 0.584                  | 0.661                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132322 | 1745        | 17.89               | 18.50               | 1.151                  | -0.05            | 0.591                  | 0.680                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 17.96               | 18.50               | 1.132                  | 0.05             | 0.563                  | 0.638                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132322 | 1745        | 17.89               | 18.50               | 1.151                  | -0.17            | 0.571                  | 0.657                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 17.96               | 18.50               | 1.132                  | 0.13             | 0.603                  | 0.683                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132322 | 1745        | 17.89               | 18.50               | 1.151                  | -0.05            | 0.599                  | 0.689                  |



| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | 0.05             | 0.160                  | 0.185                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | -0.01            | 0.118                  | 0.133                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | 0.16             | 0.052                  | 0.060                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | -0.14            | 0.037                  | 0.042                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 133297 | 680.5       | 24.37               | 25                  | 1.156                  | 0                | 0.187                  | 0.216                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | 0.11             | 0.162                  | 0.183                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | -0.08            | 0.074                  | 0.086                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | 0                | 0.039                  | 0.044                  |
| 13                                               | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 133297 | 680.5       | 24.37               | 25                  | 1.156                  | 0.01             | 0.789                  | 0.912                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | 0.03             | 0.618                  | 0.697                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 132297 | 680.5       | 23.43               | 24                  | 1.140                  | -0.04            | 0.622                  | 0.709                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | 0.17             | 0.669                  | 0.773                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | -0.02            | 0.581                  | 0.655                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | 0.16             | 0.327                  | 0.378                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | 0.08             | 0.264                  | 0.298                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 132297 | 680.5       | 24.37               | 25                  | 1.156                  | -0.02            | 0.245                  | 0.283                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 132297 | 680.5       | 23.48               | 24                  | 1.127                  | 0.06             | 0.208                  | 0.234                  |

## <TDD LTE SAR>

| Standalone |          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |              |                           |                  |                        |                        |
|------------|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Note       | Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.04             | 0.453                  | 0.491                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.15            | 0.368                  | 0.387                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.06            | 0.148                  | 0.160                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.03             | 0.121                  | 0.127                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.17             | 0.210                  | 0.227                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.11             | 0.172                  | 0.181                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.16            | 0.154                  | 0.167                  |
|            |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.12            | 0.126                  | 0.132                  |
| HPUE       |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 26.13               | 27                  | 1.222                  | 42.9         | 1.009                     | 0.14             | 0.402                  | 0.496                  |
| UL CA      |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.72               | 25                  | 1.067                  | 62.9         | 1.006                     | 0.04             | 0.456                  | 0.489                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.15             | 0.001                  | 0.001                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.18             | 0.001                  | 0.001                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.03            | 0.066                  | 0.071                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.08            | 0.054                  | 0.057                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.01            | 0.243                  | 0.263                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 39750 | 2600        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.15            | 0.168                  | 0.177                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 39750 | 2600        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.18            | 0.071                  | 0.077                  |
|            |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.02            | 0.043                  | 0.045                  |
| UL CA      |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 24.72               | 25                  | 1.067                  | 62.9         | 1.006                     | 0.04             | 0.236                  | 0.253                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 18.17               | 19.5                | 1.358                  | 62.9         | 1.006                     | 0.06             | 0.841                  | 1.149                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 40185 | 2549.5      | 18.15               | 19.5                | 1.365                  | 62.9         | 1.006                     | 0.13             | 0.792                  | 1.087                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 40620 | 2593        | 18.07               | 19.5                | 1.390                  | 62.9         | 1.006                     | 0.04             | 0.807                  | 1.128                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 41055 | 2636.5      | 18.02               | 19.5                | 1.406                  | 62.9         | 1.006                     | 0.07             | 0.734                  | 1.038                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 41490 | 2680        | 18.03               | 19.5                | 1.403                  | 62.9         | 1.006                     | 0                | 0.732                  | 1.033                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 18.13               | 19.5                | 1.371                  | 62.9         | 1.006                     | 0.07             | 0.791                  | 1.091                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 40185 | 2549.5      | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | 0.1              | 0.782                  | 1.071                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 40620 | 2593        | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.03            | 0.817                  | 1.118                  |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 41055 | 2636.5      | 18.12               | 19.5                | 1.374                  | 62.9         | 1.006                     | -0.11            | 0.774                  | 1.070                  |



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|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 41490 | 2680        | 18.1                | 19.5                | 1.380                  | 62.9         | 1.006                     | -0.1             | 0.692                  | 0.961                  |
|-------------------------------------|----------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 18.14               | 19.5                | 1.368                  | 62.9         | 1.006                     | -0.1             | 0.781                  | 1.075                  |
|                                     | 14       | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 18.17               | 19.5                | 1.358                  | 62.9         | 1.006                     | -0.09            | 0.859                  | 1.174                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 40185 | 2549.5      | 18.15               | 19.5                | 1.365                  | 62.9         | 1.006                     | 0                | 0.783                  | 1.075                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 40620 | 2593        | 18.07               | 19.5                | 1.390                  | 62.9         | 1.006                     | 0                | 0.719                  | 1.005                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 41055 | 2636.5      | 18.02               | 19.5                | 1.406                  | 62.9         | 1.006                     | -0.09            | 0.752                  | 1.064                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 41490 | 2680        | 18.03               | 19.5                | 1.403                  | 62.9         | 1.006                     | -0.04            | 0.713                  | 1.006                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 18.13               | 19.5                | 1.371                  | 62.9         | 1.006                     | 0.01             | 0.841                  | 1.160                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 40185 | 2549.5      | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.01            | 0.813                  | 1.114                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 40620 | 2593        | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.06            | 0.739                  | 1.012                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 41055 | 2636.5      | 18.12               | 19.5                | 1.374                  | 62.9         | 1.006                     | 0.06             | 0.782                  | 1.082                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 41490 | 2680        | 18.1                | 19.5                | 1.380                  | 62.9         | 1.006                     | 0.04             | 0.787                  | 1.093                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 100     | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 18.14               | 19.5                | 1.368                  | 62.9         | 1.006                     | 0.03             | 0.816                  | 1.123                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 18.17               | 19.5                | 1.358                  | 62.9         | 1.006                     | 0                | 0.807                  | 1.103                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 40185 | 2549.5      | 18.15               | 19.5                | 1.365                  | 62.9         | 1.006                     | 0.13             | 0.713                  | 0.979                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 40620 | 2593        | 18.07               | 19.5                | 1.390                  | 62.9         | 1.006                     | 0.11             | 0.711                  | 0.994                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 41055 | 2636.5      | 18.02               | 19.5                | 1.406                  | 62.9         | 1.006                     | 0                | 0.732                  | 1.035                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 41490 | 2680        | 18.03               | 19.5                | 1.403                  | 62.9         | 1.006                     | 0.13             | 0.721                  | 1.017                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 18.13               | 19.5                | 1.371                  | 62.9         | 1.006                     | 0.12             | 0.738                  | 1.018                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 40185 | 2549.5      | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.1             | 0.751                  | 1.029                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 40620 | 2593        | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | 0.16             | 0.713                  | 0.977                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 41055 | 2636.5      | 18.12               | 19.5                | 1.374                  | 62.9         | 1.006                     | -0.01            | 0.741                  | 1.024                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 41490 | 2680        | 18.1                | 19.5                | 1.380                  | 62.9         | 1.006                     | 0.17             | 0.703                  | 0.976                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 100     | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 18.14               | 19.5                | 1.368                  | 62.9         | 1.006                     | 0.19             | 0.733                  | 1.009                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 18.17               | 19.5                | 1.358                  | 62.9         | 1.006                     | 0.08             | 0.818                  | 1.118                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 40185 | 2549.5      | 18.15               | 19.5                | 1.365                  | 62.9         | 1.006                     | 0.11             | 0.730                  | 1.002                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 40620 | 2593        | 18.07               | 19.5                | 1.390                  | 62.9         | 1.006                     | -0.1             | 0.711                  | 0.994                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 41055 | 2636.5      | 18.02               | 19.5                | 1.406                  | 62.9         | 1.006                     | 0.11             | 0.741                  | 1.048                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 41490 | 2680        | 18.03               | 19.5                | 1.403                  | 62.9         | 1.006                     | 0.14             | 0.721                  | 1.017                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 18.13               | 19.5                | 1.371                  | 62.9         | 1.006                     | 0.17             | 0.751                  | 1.036                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 40185 | 2549.5      | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.13            | 0.719                  | 0.985                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 40620 | 2593        | 18.16               | 19.5                | 1.361                  | 62.9         | 1.006                     | -0.11            | 0.750                  | 1.027                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 41055 | 2636.5      | 18.12               | 19.5                | 1.374                  | 62.9         | 1.006                     | 0.02             | 0.713                  | 0.986                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 41490 | 2680        | 18.1                | 19.5                | 1.380                  | 62.9         | 1.006                     | 0.09             | 0.703                  | 0.976                  |
|                                     |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 100     | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 18.14               | 19.5                | 1.368                  | 62.9         | 1.006                     | 0.07             | 0.806                  | 1.109                  |
| HPUE                                |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 19.94               | 21.5                | 1.432                  | 42.9         | 1.009                     | -0.11            | 0.802                  | 1.159                  |
| UL CA                               |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 18.44               | 19.5                | 1.276                  | 62.9         | 1.006                     | 0.08             | 0.837                  | 1.075                  |
| Simultaneous Transmission is active |          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |              |                           |                  |                        |                        |
| Note                                | Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.04             | 0.453                  | 0.491                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.15            | 0.368                  | 0.387                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.06            | 0.148                  | 0.160                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.03             | 0.121                  | 0.127                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.17             | 0.210                  | 0.227                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.11             | 0.172                  | 0.181                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.16            | 0.154                  | 0.167                  |
|                                     |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Tilted   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.12            | 0.126                  | 0.132                  |
| HPUE                                |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 26.13               | 27                  | 1.222                  | 42.9         | 1.009                     | 0.14             | 0.402                  | 0.496                  |
| UL CA                               |          | LTE Band 41_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.72               | 25                  | 1.067                  | 62.9         | 1.006                     | 0.05             | 0.444                  | 0.476                  |
|                                     |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | 0.15             | 0.001                  | 0.001                  |
|                                     |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Cheek   | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | 0.18             | 0.001                  | 0.001                  |
|                                     |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.03            | 0.066                  | 0.071                  |
|                                     |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Tilted  | 0mm      | 39750 | 2506        | 23.81               | 24                  | 1.045                  | 62.9         | 1.006                     | -0.08            | 0.054                  | 0.057                  |
|                                     |          | LTE Band 41_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Cheek    | 0mm      | 39750 | 2506        | 24.68               | 25                  | 1.076                  | 62.9         | 1.006                     | -0.01            | 0.243                  | 0.263                  |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|       |  |                    |     |      |     |   |              |     |       |        |       |      |       |      |       |       |       |       |
|-------|--|--------------------|-----|------|-----|---|--------------|-----|-------|--------|-------|------|-------|------|-------|-------|-------|-------|
|       |  | LTE Band 41_Ant 0C | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 39750 | 2600   | 23.81 | 24   | 1.045 | 62.9 | 1.006 | -0.15 | 0.168 | 0.177 |
|       |  | LTE Band 41_Ant 0C | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 39750 | 2600   | 24.68 | 25   | 1.076 | 62.9 | 1.006 | -0.18 | 0.071 | 0.077 |
|       |  | LTE Band 41_Ant 0C | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 39750 | 2506   | 23.81 | 24   | 1.045 | 62.9 | 1.006 | -0.02 | 0.043 | 0.045 |
| UL CA |  | LTE Band 41_Ant 0C | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 39750 | 2506   | 24.72 | 25   | 1.067 | 62.9 | 1.006 | 0.01  | 0.228 | 0.245 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 39750 | 2506   | 18.17 | 18.5 | 1.079 | 62.9 | 1.006 | 0.06  | 0.841 | 0.913 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 40185 | 2549.5 | 18.15 | 18.5 | 1.084 | 62.9 | 1.006 | 0.13  | 0.792 | 0.864 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 40620 | 2593   | 18.07 | 18.5 | 1.104 | 62.9 | 1.006 | 0.04  | 0.807 | 0.896 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 41055 | 2636.5 | 18.02 | 18.5 | 1.117 | 62.9 | 1.006 | 0.07  | 0.734 | 0.824 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Cheek  | 0mm | 41490 | 2680   | 18.03 | 18.5 | 1.114 | 62.9 | 1.006 | 0     | 0.732 | 0.821 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 39750 | 2506   | 18.13 | 18.5 | 1.089 | 62.9 | 1.006 | 0.07  | 0.791 | 0.867 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 40185 | 2549.5 | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | 0.1   | 0.782 | 0.851 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 40620 | 2593   | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.03 | 0.817 | 0.888 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 41055 | 2636.5 | 18.12 | 18.5 | 1.091 | 62.9 | 1.006 | -0.11 | 0.774 | 0.850 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Cheek  | 0mm | 41490 | 2680   | 18.1  | 18.5 | 1.096 | 62.9 | 1.006 | -0.1  | 0.692 | 0.763 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 100 | 0 | Right Cheek  | 0mm | 39750 | 2506   | 18.14 | 18.5 | 1.086 | 62.9 | 1.006 | -0.1  | 0.781 | 0.854 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 39750 | 2506   | 18.17 | 18.5 | 1.079 | 62.9 | 1.006 | -0.09 | 0.859 | 0.932 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 40185 | 2549.5 | 18.15 | 18.5 | 1.084 | 62.9 | 1.006 | 0     | 0.783 | 0.854 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 40620 | 2593   | 18.07 | 18.5 | 1.104 | 62.9 | 1.006 | 0     | 0.719 | 0.798 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 41055 | 2636.5 | 18.02 | 18.5 | 1.117 | 62.9 | 1.006 | -0.09 | 0.752 | 0.845 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 41490 | 2680   | 18.03 | 18.5 | 1.114 | 62.9 | 1.006 | -0.04 | 0.713 | 0.799 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 39750 | 2506   | 18.13 | 18.5 | 1.089 | 62.9 | 1.006 | 0.01  | 0.841 | 0.921 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 40185 | 2549.5 | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.01 | 0.813 | 0.885 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 40620 | 2593   | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.06 | 0.739 | 0.804 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 41055 | 2636.5 | 18.12 | 18.5 | 1.091 | 62.9 | 1.006 | 0.06  | 0.782 | 0.859 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Right Tilted | 0mm | 41490 | 2680   | 18.1  | 18.5 | 1.096 | 62.9 | 1.006 | 0.04  | 0.787 | 0.868 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 100 | 0 | Right Tilted | 0mm | 39750 | 2506   | 18.14 | 18.5 | 1.086 | 62.9 | 1.006 | 0.03  | 0.816 | 0.892 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 39750 | 2506   | 18.17 | 18.5 | 1.079 | 62.9 | 1.006 | 0     | 0.807 | 0.876 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 40185 | 2549.5 | 18.15 | 18.5 | 1.084 | 62.9 | 1.006 | 0.13  | 0.713 | 0.777 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 40620 | 2593   | 18.07 | 18.5 | 1.104 | 62.9 | 1.006 | 0.11  | 0.711 | 0.790 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 41055 | 2636.5 | 18.02 | 18.5 | 1.117 | 62.9 | 1.006 | 0     | 0.732 | 0.822 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Cheek   | 0mm | 41490 | 2680   | 18.03 | 18.5 | 1.114 | 62.9 | 1.006 | 0.13  | 0.721 | 0.808 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 39750 | 2506   | 18.13 | 18.5 | 1.089 | 62.9 | 1.006 | 0.12  | 0.738 | 0.808 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 40185 | 2549.5 | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.1  | 0.751 | 0.817 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 40620 | 2593   | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | 0.16  | 0.713 | 0.776 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 41055 | 2636.5 | 18.12 | 18.5 | 1.091 | 62.9 | 1.006 | -0.01 | 0.741 | 0.814 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Cheek   | 0mm | 41490 | 2680   | 18.1  | 18.5 | 1.096 | 62.9 | 1.006 | 0.17  | 0.703 | 0.775 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 100 | 0 | Left Cheek   | 0mm | 39750 | 2506   | 18.14 | 18.5 | 1.086 | 62.9 | 1.006 | 0.19  | 0.733 | 0.801 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 39750 | 2506   | 18.17 | 18.5 | 1.079 | 62.9 | 1.006 | 0.08  | 0.818 | 0.888 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 40185 | 2549.5 | 18.15 | 18.5 | 1.084 | 62.9 | 1.006 | 0.11  | 0.730 | 0.796 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 40620 | 2593   | 18.07 | 18.5 | 1.104 | 62.9 | 1.006 | -0.1  | 0.711 | 0.789 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 41055 | 2636.5 | 18.02 | 18.5 | 1.117 | 62.9 | 1.006 | 0.11  | 0.741 | 0.833 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Left Tilted  | 0mm | 41490 | 2680   | 18.03 | 18.5 | 1.114 | 62.9 | 1.006 | 0.14  | 0.721 | 0.808 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 39750 | 2506   | 18.13 | 18.5 | 1.089 | 62.9 | 1.006 | 0.17  | 0.751 | 0.823 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 40185 | 2549.5 | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.13 | 0.719 | 0.782 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 40620 | 2593   | 18.16 | 18.5 | 1.081 | 62.9 | 1.006 | -0.11 | 0.750 | 0.816 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 41055 | 2636.5 | 18.12 | 18.5 | 1.091 | 62.9 | 1.006 | 0.02  | 0.713 | 0.783 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 50  | 0 | Left Tilted  | 0mm | 41490 | 2680   | 18.1  | 18.5 | 1.096 | 62.9 | 1.006 | 0.09  | 0.703 | 0.775 |
|       |  | LTE Band 41_Ant 1  | 20M | QPSK | 100 | 0 | Left Tilted  | 0mm | 39750 | 2506   | 18.14 | 18.5 | 1.086 | 62.9 | 1.006 | 0.07  | 0.806 | 0.881 |
| HPUE  |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 39750 | 2506   | 19.94 | 20.5 | 1.138 | 42.9 | 1.009 | -0.11 | 0.802 | 0.921 |
| UL CA |  | LTE Band 41_Ant 1  | 20M | QPSK | 1   | 0 | Right Tilted | 0mm | 39750 | 2506   | 18.44 | 18.5 | 1.014 | 62.9 | 1.006 | 0.02  | 0.882 | 0.900 |

**<WLAN SAR>**

| Standalone / Simultaneous Transmission is active |            |               |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|--------------------------------------------------|------------|---------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 2      | 6   | 2437        | 11.40               | 11.50               | 1.023                  | 99.2         | 1.008                     | 0.05             | 0.198                  | 0.204                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 2      | 6   | 2437        | 11.40               | 11.50               | 1.023                  | 99.2         | 1.008                     | 0.03             | 0.036                  | 0.037                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 2      | 6   | 2437        | 11.40               | 11.50               | 1.023                  | 99.2         | 1.008                     | -0.02            | 0.081                  | 0.084                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 2      | 6   | 2437        | 11.40               | 11.50               | 1.023                  | 99.2         | 1.008                     | -0.05            | 0.019                  | 0.020                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 4      | 6   | 2437        | 13.20               | 13.50               | 1.072                  | 99           | 1.010                     | 0.08             | 0.297                  | 0.321                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 4      | 6   | 2437        | 13.20               | 13.50               | 1.072                  | 99           | 1.010                     | 0.06             | 0.301                  | 0.326                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 4      | 6   | 2437        | 13.20               | 13.50               | 1.072                  | 99           | 1.010                     | 0.15             | 0.427                  | 0.462                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 4      | 6   | 2437        | 13.20               | 13.50               | 1.072                  | 99           | 1.010                     | -0.08            | 0.466                  | 0.504                  |
| 15                                               | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 2+4(2) | 6   | 2437        | 14.85               | 15.00               | 1.035                  | 99.32        | 1.007                     | -0.05            | 0.527                  | 0.549                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek   | 0mm      | Ant 2+4(4) | 6   | 2437        | 12.81               | 13.50               | 1.172                  | 99.32        | 1.007                     | -0.05            | 0.458                  | 0.541                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 2+4(2) | 6   | 2437        | 14.85               | 15.00               | 1.035                  | 99.32        | 1.007                     | -0.04            | 0.391                  | 0.408                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted  | 0mm      | Ant 2+4(4) | 6   | 2437        | 12.81               | 13.50               | 1.172                  | 99.32        | 1.007                     | -0.04            | 0.364                  | 0.430                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 2+4(2) | 6   | 2437        | 14.85               | 15.00               | 1.035                  | 99.32        | 1.007                     | -0.09            | 0.361                  | 0.376                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek    | 0mm      | Ant 2+4(4) | 6   | 2437        | 12.81               | 13.50               | 1.172                  | 99.32        | 1.007                     | -0.09            | 0.461                  | 0.544                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 2+4(2) | 6   | 2437        | 14.85               | 15.00               | 1.035                  | 99.32        | 1.007                     | 0.07             | 0.398                  | 0.415                  |
|                                                  | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted   | 0mm      | Ant 2+4(4) | 6   | 2437        | 12.81               | 13.50               | 1.172                  | 99.32        | 1.007                     | 0.07             | 0.462                  | 0.545                  |

| Standalone / Simultaneous Transmission is active |          |                   |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|--------------------------------------------------|----------|-------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band     | Mode              | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | Ant 4      | 54  | 5270        | 15.90               | 17.50               | 1.445                  | 95.94        | 1.042                     | -0.03            | 0.275                  | 0.414                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | Ant 4      | 54  | 5270        | 15.90               | 17.50               | 1.445                  | 95.94        | 1.042                     | 0.1              | 0.112                  | 0.169                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | Ant 4      | 54  | 5270        | 15.90               | 17.50               | 1.445                  | 95.94        | 1.042                     | 0.19             | 0.076                  | 0.114                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | Ant 4      | 54  | 5270        | 15.90               | 17.50               | 1.445                  | 95.94        | 1.042                     | -0.05            | 0.071                  | 0.107                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | Ant 5      | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.45        | 1.037                     | 0.06             | 0.230                  | 0.268                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | Ant 5      | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.45        | 1.037                     | 0.01             | 0.114                  | 0.133                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | Ant 5      | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.45        | 1.037                     | 0.11             | 0.062                  | 0.072                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | Ant 5      | 54  | 5270        | 16.50               | 17.00               | 1.122                  | 96.45        | 1.037                     | 0.13             | 0.057                  | 0.066                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | Ant 4+5(4) | 54  | 5270        | 16.15               | 16.50               | 1.084                  | 95.45        | 1.048                     | 0.1              | 0.381                  | 0.433                  |
| 16                                               | WLAN5GHz | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | Ant 4+5(5) | 54  | 5270        | 17.72               | 19.50               | 1.507                  | 95.45        | 1.048                     | 0.1              | 0.286                  | 0.452                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | Ant 4+5(4) | 54  | 5270        | 16.15               | 16.50               | 1.084                  | 95.45        | 1.048                     | 0.14             | 0.312                  | 0.354                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | Ant 4+5(5) | 54  | 5270        | 17.72               | 19.50               | 1.507                  | 95.45        | 1.048                     | 0.14             | 0.255                  | 0.403                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | Ant 4+5(4) | 54  | 5270        | 16.15               | 16.50               | 1.084                  | 95.45        | 1.048                     | -0.05            | 0.306                  | 0.348                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | Ant 4+5(5) | 54  | 5270        | 17.72               | 19.50               | 1.507                  | 95.45        | 1.048                     | -0.05            | 0.232                  | 0.366                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | Ant 4+5(4) | 54  | 5270        | 16.15               | 16.50               | 1.084                  | 95.45        | 1.048                     | -0.09            | 0.311                  | 0.353                  |
|                                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Left Tilted   | 0mm      | Ant 4+5(5) | 54  | 5270        | 17.72               | 19.50               | 1.507                  | 95.45        | 1.048                     | -0.09            | 0.242                  | 0.382                  |

| Standalone / Simultaneous Transmission is active |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|--------------------------------------------------|----------|---------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4      | 138 | 5690        | 11.30               | 13.00               | 1.479                  | 92.4         | 1.082                     | 0.05             | 0.257                  | 0.411                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4      | 138 | 5690        | 11.30               | 13.00               | 1.479                  | 92.4         | 1.082                     | -0.05            | 0.152                  | 0.243                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4      | 138 | 5690        | 11.30               | 13.00               | 1.479                  | 92.4         | 1.082                     | -0.1             | 0.122                  | 0.195                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4      | 138 | 5690        | 11.30               | 13.00               | 1.479                  | 92.4         | 1.082                     | 0.09             | 0.089                  | 0.142                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 5      | 138 | 5690        | 17.90               | 18.00               | 1.023                  | 92.8         | 1.078                     | 0.07             | 0.234                  | 0.258                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 5      | 138 | 5690        | 17.90               | 18.00               | 1.023                  | 92.8         | 1.078                     | 0.1              | 0.205                  | 0.226                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 5      | 138 | 5690        | 17.90               | 18.00               | 1.023                  | 92.8         | 1.078                     | -0.05            | 0.101                  | 0.111                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 5      | 138 | 5690        | 17.90               | 18.00               | 1.023                  | 92.8         | 1.078                     | -0.01            | 0.052                  | 0.057                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4+5(4) | 138 | 5690        | 12.86               | 13.00               | 1.033                  | 92.4         | 1.082                     | 0.14             | 0.421                  | 0.470                  |
| 17                                               | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4+5(5) | 138 | 5690        | 19.73               | 20.00               | 1.064                  | 92.4         | 1.082                     | 0.14             | 0.433                  | 0.499                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4+5(4) | 138 | 5690        | 12.86               | 13.00               | 1.033                  | 92.4         | 1.082                     | 0.03             | 0.344                  | 0.384                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4+5(5) | 138 | 5690        | 19.73               | 20.00               | 1.064                  | 92.4         | 1.082                     | 0.03             | 0.412                  | 0.474                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4+5(4) | 138 | 5690        | 12.86               | 13.00               | 1.033                  | 92.4         | 1.082                     | -0.1             | 0.336                  | 0.375                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4+5(5) | 138 | 5690        | 19.73               | 20.00               | 1.064                  | 92.4         | 1.082                     | -0.1             | 0.143                  | 0.165                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4+5(4) | 138 | 5690        | 12.86               | 13.00               | 1.033                  | 92.4         | 1.082                     | 0.09             | 0.362                  | 0.405                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4+5(5) | 138 | 5690        | 19.73               | 20.00               | 1.064                  | 92.4         | 1.082                     | 0.09             | 0.138                  | 0.159                  |

| Standalone / Simultaneous Transmission is active |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|--------------------------------------------------|----------|---------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4      | 155 | 5775        | 10.30               | 12.00               | 1.479                  | 92.4         | 1.082                     | 0.1              | 0.247                  | 0.395                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4      | 155 | 5775        | 10.30               | 12.00               | 1.479                  | 92.4         | 1.082                     | 0.08             | 0.253                  | 0.405                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4      | 155 | 5775        | 10.30               | 12.00               | 1.479                  | 92.4         | 1.082                     | 0.09             | 0.113                  | 0.181                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4      | 155 | 5775        | 10.30               | 12.00               | 1.479                  | 92.4         | 1.082                     | -0.05            | 0.124                  | 0.198                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 5      | 155 | 5775        | 16.50               | 17.00               | 1.122                  | 92.8         | 1.078                     | 0.12             | 0.239                  | 0.289                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 5      | 155 | 5775        | 16.50               | 17.00               | 1.122                  | 92.8         | 1.078                     | 0.01             | 0.222                  | 0.269                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 5      | 155 | 5775        | 16.50               | 17.00               | 1.122                  | 92.8         | 1.078                     | 0.05             | 0.081                  | 0.098                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 5      | 155 | 5775        | 16.50               | 17.00               | 1.122                  | 92.8         | 1.078                     | -0.04            | 0.068                  | 0.082                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4+5(4) | 155 | 5775        | 10.71               | 11.00               | 1.069                  | 92.4         | 1.082                     | -0.04            | 0.369                  | 0.427                  |
| 18                                               | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek   | 0mm      | Ant 4+5(5) | 155 | 5775        | 19.11               | 19.50               | 1.094                  | 92.4         | 1.082                     | -0.04            | 0.373                  | 0.442                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4+5(4) | 155 | 5775        | 10.71               | 11.00               | 1.069                  | 92.4         | 1.082                     | 0.01             | 0.343                  | 0.397                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted  | 0mm      | Ant 4+5(5) | 155 | 5775        | 19.11               | 19.50               | 1.094                  | 92.4         | 1.082                     | 0.01             | 0.342                  | 0.405                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4+5(4) | 155 | 5775        | 10.71               | 11.00               | 1.069                  | 92.4         | 1.082                     | 0.19             | 0.338                  | 0.391                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 4+5(5) | 155 | 5775        | 19.11               | 19.50               | 1.094                  | 92.4         | 1.082                     | 0.19             | 0.128                  | 0.152                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4+5(4) | 155 | 5775        | 10.71               | 11.00               | 1.069                  | 92.4         | 1.082                     | -0.01            | 0.341                  | 0.394                  |
|                                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted   | 0mm      | Ant 4+5(5) | 155 | 5775        | 19.11               | 19.50               | 1.094                  | 92.4         | 1.082                     | -0.01            | 0.159                  | 0.188                  |

**<Bluetooth SAR>**

| Standalone                          |           |       |               |          |         |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
| 19                                  | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 2   | 39  | 2441        | 10.60               | 12.50               | 1.549                  | 77.13        | 1.297                     | 0.13             | 0.067                  | 0.135                  |
|                                     | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 2   | 39  | 2441        | 10.60               | 12.50               | 1.549                  | 77.13        | 1.297                     | -0.01            | 0.044                  | 0.088                  |
|                                     | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 2   | 39  | 2441        | 10.60               | 12.50               | 1.549                  | 77.13        | 1.297                     | -0.06            | 0.061                  | 0.123                  |
|                                     | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 2   | 39  | 2441        | 10.60               | 12.50               | 1.549                  | 77.13        | 1.297                     | 0.08             | 0.054                  | 0.108                  |
| Simultaneous Transmission is active |           |       |               |          |         |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | Bluetooth | 1Mbps | Right Cheek   | 0mm      | Ant 2   | 39  | 2441        | 11.60               | 12.50               | 1.230                  | 77.13        | 1.297                     | 0.13             | 0.067                  | 0.107                  |
|                                     | Bluetooth | 1Mbps | Right Tilted  | 0mm      | Ant 2   | 39  | 2441        | 11.60               | 12.50               | 1.230                  | 77.13        | 1.297                     | -0.01            | 0.044                  | 0.070                  |
|                                     | Bluetooth | 1Mbps | Left Cheek    | 0mm      | Ant 2   | 39  | 2441        | 11.60               | 12.50               | 1.230                  | 77.13        | 1.297                     | -0.06            | 0.061                  | 0.097                  |
|                                     | Bluetooth | 1Mbps | Left Tilted   | 0mm      | Ant 2   | 39  | 2441        | 11.60               | 12.50               | 1.230                  | 77.13        | 1.297                     | 0.08             | 0.054                  | 0.086                  |

**15.2 Hotspot SAR**
**<GSM SAR>**

| Simultaneous Transmission is active |               |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|---------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band          | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | -0.09            | 0.661                  | 0.749                  |
| 20                                  | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | -0.11            | 0.838                  | 0.949                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 128 | 824.2       | 27.33               | 28.00               | 1.167                  | 0.03             | 0.811                  | 0.946                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 189 | 836.4       | 27.29               | 28.00               | 1.178                  | -0.05            | 0.802                  | 0.944                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Left Side     | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | 0.11             | 0.210                  | 0.238                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Right Side    | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | 0.15             | 0.068                  | 0.077                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | -0.09            | 0.769                  | 0.871                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 128 | 824.2       | 27.33               | 28.00               | 1.167                  | -0.11            | 0.723                  | 0.844                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 189 | 836.4       | 27.29               | 28.00               | 1.178                  | 0.02             | 0.745                  | 0.877                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.04             | 0.293                  | 0.347                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | -0.12            | 0.365                  | 0.433                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Left Side     | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | -0.05            | 0.190                  | 0.225                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Right Side    | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | -0.06            | 0.096                  | 0.114                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Top Side      | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.11             | 0.158                  | 0.187                  |

| Simultaneous Transmission is active |                |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|----------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band           | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Front         | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | -0.1             | 0.472                  | 0.625                  |
| 21                                  | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.17             | 0.722                  | 0.956                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 661 | 1880        | 25.11               | 26.50               | 1.377                  | 0.03             | 0.685                  | 0.943                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 810 | 1909.8      | 25.27               | 26.50               | 1.327                  | -0.09            | 0.714                  | 0.948                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Left Side     | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0                | 0.132                  | 0.175                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Right Side    | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | -0.08            | 0.491                  | 0.650                  |
|                                     | GSM1900_Ant 0B | GPRS (4 Tx slots) | Bottom Side   | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.09             | 0.369                  | 0.489                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 661 | 1880        | 24.05               | 25.00               | 1.245                  | 0.01             | 0.521                  | 0.648                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 661 | 1880        | 24.05               | 25.00               | 1.245                  | -0.06            | 0.637                  | 0.793                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Left Side     | 10mm     | 661 | 1880        | 24.05               | 25.00               | 1.245                  | 0.14             | 0.445                  | 0.554                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Right Side    | 10mm     | 661 | 1880        | 24.05               | 25.00               | 1.245                  | 0                | 0.109                  | 0.136                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Top Side      | 10mm     | 661 | 1880        | 24.05               | 25.00               | 1.245                  | 0.19             | 0.751                  | 0.935                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Top Side      | 10mm     | 512 | 1850.2      | 23.97               | 25.00               | 1.268                  | -0.08            | 0.727                  | 0.922                  |
|                                     | GSM1900_Ant 1  | GPRS (4 Tx slots) | Top Side      | 10mm     | 810 | 1909.8      | 23.99               | 25.00               | 1.262                  | 0.13             | 0.748                  | 0.944                  |

**<WCDMA SAR>**

| Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | 0.03             | 0.627                  | 0.717                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | -0.07            | 0.805                  | 0.920                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9262 | 1852.4      | 21.23               | 22.00               | 1.194                  | 0.11             | 0.784                  | 0.936                  |
| 22                                  | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9538 | 1907.6      | 21.37               | 22.00               | 1.156                  | 0                | 0.815                  | 0.942                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Left Side     | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | 0.05             | 0.234                  | 0.267                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Right Side    | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | -0.14            | 0.693                  | 0.792                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Bottom Side   | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | 0.01             | 0.587                  | 0.671                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 20.58               | 21.00               | 1.102                  | 0.02             | 0.603                  | 0.664                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 20.58               | 21.00               | 1.102                  | 0.18             | 0.714                  | 0.786                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Left Side     | 10mm     | 9400 | 1880        | 20.58               | 21.00               | 1.102                  | -0.04            | 0.485                  | 0.534                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Right Side    | 10mm     | 9400 | 1880        | 20.58               | 21.00               | 1.102                  | 0.06             | 0.105                  | 0.116                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 9400 | 1880        | 20.58               | 21.00               | 1.102                  | 0.04             | 0.822                  | 0.905                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 9262 | 1852.4      | 20.42               | 21.00               | 1.143                  | -0.02            | 0.821                  | 0.938                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 9538 | 1907.6      | 20.47               | 21.00               | 1.130                  | 0.02             | 0.833                  | 0.941                  |

| Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.03             | 0.516                  | 0.599                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.09             | 0.646                  | 0.750                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Left Side     | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.04            | 0.110                  | 0.128                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Right Side    | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.14             | 0.454                  | 0.527                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Bottom Side   | 0mm      | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.07             | 0.798                  | 0.927                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Bottom Side   | 10mm     | 1312 | 1712.4      | 24.34               | 25.00               | 1.164                  | -0.08            | 0.714                  | 0.831                  |
|                                     | WCDMA IV_Ant 0B | RMC 12.2Kbps | Bottom Side   | 10mm     | 1513 | 1752.6      | 24.26               | 25.00               | 1.186                  | 0.16             | 0.730                  | 0.866                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.05             | 0.309                  | 0.359                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.11             | 0.385                  | 0.447                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Left Side     | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.1             | 0.625                  | 0.726                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Right Side    | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | -0.06            | 0.214                  | 0.249                  |
|                                     | WCDMA IV_Ant 0C | RMC 12.2Kbps | Bottom Side   | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.14             | 0.323                  | 0.375                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 22.5                | 22.50               | 1.000                  | -0.09            | 0.725                  | 0.725                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 22.5                | 22.50               | 1.000                  | 0.12             | 0.863                  | 0.863                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1312 | 1712.4      | 22.46               | 22.50               | 1.009                  | 0.08             | 0.842                  | 0.850                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1513 | 1752.6      | 22.41               | 22.50               | 1.021                  | 0.15             | 0.837                  | 0.855                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Left Side     | 10mm     | 1413 | 1732.6      | 22.5                | 22.50               | 1.000                  | 0.05             | 0.471                  | 0.471                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Right Side    | 10mm     | 1413 | 1732.6      | 22.5                | 22.50               | 1.000                  | -0.03            | 0.115                  | 0.115                  |
| 23                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 1413 | 1732.6      | 22.5                | 22.50               | 1.000                  | 0.14             | 0.985                  | 0.985                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 1312 | 1712.4      | 22.46               | 22.50               | 1.009                  | 0.03             | 0.951                  | 0.960                  |
|                                     | WCDMA IV_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 1513 | 1752.6      | 22.41               | 22.50               | 1.021                  | -0.02            | 0.960                  | 0.980                  |

| Simultaneous Transmission is active |                |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band           | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | 0.02             | 0.578                  | 0.637                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | -0.04            | 0.846                  | 0.932                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4132 | 826.4       | 23.53               | 24.00               | 1.114                  | 0.13             | 0.823                  | 0.917                  |
| 24                                  | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4182 | 836.4       | 23.54               | 24.00               | 1.112                  | 0.13             | 0.857                  | 0.953                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Left Side     | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | 0.09             | 0.183                  | 0.202                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Right Side    | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | -0.16            | 0.036                  | 0.040                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Bottom Side   | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | 0.02             | 0.751                  | 0.827                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Bottom Side   | 10mm     | 4132 | 826.4       | 23.53               | 24.00               | 1.114                  | 0.17             | 0.726                  | 0.809                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Bottom Side   | 10mm     | 4182 | 836.4       | 23.54               | 24.00               | 1.112                  | 0.04             | 0.742                  | 0.825                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.01             | 0.337                  | 0.419                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.11             | 0.425                  | 0.529                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Left Side     | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.04             | 0.276                  | 0.343                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Right Side    | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.15             | 0.134                  | 0.167                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Top Side      | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.03             | 0.163                  | 0.203                  |

**<FDD LTE SAR>**

| Simultaneous Transmission is active |                   |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.02             | 0.299                  | 0.342                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.04            | 0.242                  | 0.273                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.05             | 0.346                  | 0.395                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.11            | 0.305                  | 0.344                  |
| 25                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | -0.07            | 0.516                  | 0.590                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | 0.03             | 0.433                  | 0.488                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | -0.02            | 0.295                  | 0.337                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | 0.05             | 0.234                  | 0.264                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.11             | 0.162                  | 0.185                  |
|                                     | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | 0.12             | 0.128                  | 0.144                  |



| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | 0.17             | 0.426                  | 0.463                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | 0.03             | 0.411                  | 0.459                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | -0.05            | 0.671                  | 0.729                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | -0.04            | 0.684                  | 0.764                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Left Side     | 10mm     | 21350 | 2600        | 21.64               | 22.00               | 1.086                  | 0.08             | 0.105                  | 0.114                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Left Side     | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | -0.11            | 0.079                  | 0.088                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Side    | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | -0.15            | 0.847                  | 0.920                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Side    | 10mm     | 20850 | 2510        | 21.5                | 22.00               | 1.122                  | 0.14             | 0.772                  | 0.866                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Right Side    | 10mm     | 21100 | 2535        | 21.53               | 22.00               | 1.114                  | -0.06            | 0.787                  | 0.877                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | 0.06             | 0.814                  | 0.909                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 20850 | 2560        | 21.30               | 22.00               | 1.175                  | 0.04             | 0.779                  | 0.915                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 21100 | 2510        | 21.44               | 22.00               | 1.138                  | 0.09             | 0.767                  | 0.873                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 21350 | 2560        | 21.47               | 22.00               | 1.130                  | 0.14             | 0.807                  | 0.912                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Bottom Side   | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | 0.12             | 0.236                  | 0.256                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Bottom Side   | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | 0.03             | 0.241                  | 0.269                  |
|                                     | LTE Band 7C_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 21100 | 2535        | 21.82               | 22.00               | 1.042                  | 0.01             | 0.864                  | 0.901                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.14             | 0.410                  | 0.474                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.06             | 0.330                  | 0.376                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.02            | 0.590                  | 0.682                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.09             | 0.515                  | 0.587                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Left Side     | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.03            | 0.666                  | 0.770                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Left Side     | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.16             | 0.536                  | 0.611                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Right Side    | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.18            | 0.108                  | 0.125                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | -0.09            | 0.087                  | 0.099                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Bottom Side   | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.01            | 0.209                  | 0.242                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Bottom Side   | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.07             | 0.168                  | 0.192                  |
|                                     | LTE Band 7C_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 21100 | 2535        | 23.8                | 25.00               | 1.318                  | -0.18            | 0.554                  | 0.730                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 20.47               | 20.50               | 1.007                  | 0.05             | 0.439                  | 0.442                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 20.28               | 20.50               | 1.052                  | -0.16            | 0.407                  | 0.428                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 20.47               | 20.50               | 1.007                  | 0.04             | 0.529                  | 0.533                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 20.28               | 20.50               | 1.052                  | 0.01             | 0.478                  | 0.503                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Left Side     | 10mm     | 21350 | 2560        | 20.47               | 20.50               | 1.007                  | 0.02             | 0.189                  | 0.191                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Left Side     | 10mm     | 21350 | 2560        | 20.28               | 20.50               | 1.052                  | -0.08            | 0.105                  | 0.110                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Right Side    | 10mm     | 21350 | 2560        | 20.47               | 20.50               | 1.007                  | 0.14             | 0.064                  | 0.064                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Right Side    | 10mm     | 21350 | 2560        | 20.28               | 20.50               | 1.052                  | -0.16            | 0.051                  | 0.054                  |
| 26                                  | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Top Side      | 10mm     | 21350 | 2560        | 20.47               | 20.50               | 1.007                  | -0.05            | 0.939                  | 0.946                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Top Side      | 10mm     | 20850 | 2510        | 20.12               | 20.50               | 1.091                  | 0.02             | 0.834                  | 0.910                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Top Side      | 10mm     | 21100 | 2535        | 20.3                | 20.50               | 1.047                  | 0.03             | 0.898                  | 0.940                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Top Side      | 10mm     | 21350 | 2560        | 20.28               | 20.50               | 1.052                  | -0.15            | 0.893                  | 0.939                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Top Side      | 10mm     | 20850 | 2510        | 20.05               | 20.50               | 1.109                  | 0.16             | 0.816                  | 0.905                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Top Side      | 10mm     | 21100 | 2535        | 20.23               | 20.50               | 1.064                  | 0.19             | 0.874                  | 0.930                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 21350 | 2560        | 20.2                | 20.50               | 1.072                  | 0.09             | 0.882                  | 0.945                  |
|                                     | LTE Band 7C_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 21100 | 2535        | 20.47               | 20.50               | 1.007                  | 0.1              | 0.910                  | 0.916                  |

| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.01             | 0.223                  | 0.253                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0                | 0.181                  | 0.200                  |
| 27                                  | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.11            | 0.289                  | 0.328                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.236                  | 0.261                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Left Side     | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0                | 0.184                  | 0.209                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.02             | 0.150                  | 0.166                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Right Side    | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.06            | 0.095                  | 0.108                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.19            | 0.077                  | 0.085                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Bottom Side   | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.17            | 0.262                  | 0.297                  |
|                                     | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Bottom Side   | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.17            | 0.213                  | 0.236                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.07            | 0.210                  | 0.238                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.08             | 0.174                  | 0.193                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.02             | 0.235                  | 0.267                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.11            | 0.193                  | 0.214                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Left Side     | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.02             | 0.212                  | 0.241                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Left Side     | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.19             | 0.171                  | 0.189                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Right Side    | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.03            | 0.092                  | 0.104                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Right Side    | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.04             | 0.068                  | 0.075                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Top Side      | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.05            | 0.149                  | 0.169                  |
|                                     | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Top Side      | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.07            | 0.117                  | 0.129                  |

| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0                | 0.482                  | 0.552                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.1              | 0.387                  | 0.435                  |
| 28                                  | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.01            | 0.568                  | 0.651                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.03             | 0.459                  | 0.516                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.06            | 0.234                  | 0.268                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.02            | 0.187                  | 0.210                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.11             | 0.074                  | 0.085                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.16             | 0.060                  | 0.067                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.17            | 0.517                  | 0.592                  |
|                                     | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Bottom Side   | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.19            | 0.417                  | 0.469                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.13             | 0.371                  | 0.425                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.03            | 0.292                  | 0.328                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.1             | 0.438                  | 0.502                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.02             | 0.355                  | 0.399                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.05             | 0.241                  | 0.276                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Left Side     | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.18            | 0.183                  | 0.206                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.13             | 0.100                  | 0.115                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Right Side    | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.07            | 0.082                  | 0.092                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.06            | 0.144                  | 0.165                  |
|                                     | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Top Side      | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.11             | 0.119                  | 0.134                  |



| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB Offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | 0.03             | 0.562                  | 0.613                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.02            | 0.571                  | 0.645                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | 0.17             | 0.745                  | 0.813                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.53               | 22.00               | 1.114                  | 0.05             | 0.753                  | 0.839                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.54               | 22.00               | 1.112                  | 0.05             | 0.861                  | 0.957                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.02            | 0.728                  | 0.822                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.39               | 22.00               | 1.151                  | -0.14            | 0.716                  | 0.824                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.41               | 22.00               | 1.146                  | 0.03             | 0.831                  | 0.952                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26340 | 1880        | 21.45               | 22.00               | 1.135                  | 0.01             | 0.819                  | 0.930                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | -0.18            | 0.110                  | 0.120                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | 0.06             | 0.121                  | 0.137                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | -0.02            | 0.583                  | 0.636                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.04            | 0.591                  | 0.668                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | 0.08             | 0.584                  | 0.637                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.01            | 0.589                  | 0.665                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26590 | 1905        | 21.31               | 21.50               | 1.045                  | -0.06            | 0.663                  | 0.693                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | -0.02            | 0.670                  | 0.720                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.31               | 21.50               | 1.045                  | 0                | 0.915                  | 0.956                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.11               | 21.50               | 1.094                  | 0.02             | 0.868                  | 0.950                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.07               | 21.50               | 1.104                  | 0.01             | 0.796                  | 0.879                  |
| 29                                  | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | -0.03            | 0.925                  | 0.993                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.16               | 21.50               | 1.081                  | 0                | 0.897                  | 0.970                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.16               | 21.50               | 1.081                  | -0.02            | 0.805                  | 0.871                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26590 | 1905        | 21.17               | 21.50               | 1.079                  | 0.03             | 0.919                  | 0.992                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 26590 | 1905        | 21.31               | 21.50               | 1.045                  | 0.09             | 0.530                  | 0.554                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | 0.1              | 0.528                  | 0.567                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 26590 | 1905        | 21.31               | 21.50               | 1.045                  | 0.06             | 0.115                  | 0.120                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | 0.14             | 0.074                  | 0.079                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 26340 | 1880        | 21.11               | 21.50               | 1.094                  | -0.12            | 0.858                  | 0.939                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 26140 | 1860        | 21.07               | 21.50               | 1.104                  | -0.02            | 0.811                  | 0.895                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | -0.11            | 0.923                  | 0.991                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 26340 | 1880        | 21.16               | 21.50               | 1.081                  | -0.06            | 0.837                  | 0.905                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 26140 | 1860        | 21.16               | 21.50               | 1.081                  | 0.02             | 0.763                  | 0.825                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 26590 | 1905        | 21.19               | 21.50               | 1.074                  | -0.05            | 0.893                  | 0.959                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 26590 | 1905        | 21.17               | 21.50               | 1.079                  | -0.12            | 0.886                  | 0.956                  |

| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.03             | 0.651                  | 0.746                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.05            | 0.532                  | 0.594                  |
| 30                                  | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.09            | 0.859                  | 0.984                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.01             | 0.711                  | 0.794                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 75      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.47               | 24.00               | 1.130                  | 0.18             | 0.705                  | 0.797                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.05            | 0.248                  | 0.284                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Left Side     | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.17             | 0.196                  | 0.219                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.13             | 0.096                  | 0.110                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Right Side    | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.02            | 0.067                  | 0.075                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.08            | 0.719                  | 0.824                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Bottom Side   | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.04             | 0.554                  | 0.619                  |
|                                     | LTE Band 26_Ant 0C | 15M      | QPSK       | 75      | 0         | Bottom Side   | 10mm     | 26865 | 831.5       | 23.47               | 24.00               | 1.130                  | 0.11             | 0.541                  | 0.611                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.04             | 0.317                  | 0.363                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.13            | 0.256                  | 0.286                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.14            | 0.441                  | 0.505                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.06            | 0.358                  | 0.400                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.03             | 0.269                  | 0.308                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Left Side     | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.05             | 0.212                  | 0.237                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.17             | 0.113                  | 0.129                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Right Side    | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.09            | 0.088                  | 0.098                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.16             | 0.150                  | 0.172                  |
|                                     | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Top Side      | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.04             | 0.116                  | 0.130                  |



| Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.06             | 0.643                  | 0.713                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0                | 0.525                  | 0.565                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.02            | 0.662                  | 0.734                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0.08             | 0.542                  | 0.583                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.02            | 0.157                  | 0.174                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0.04             | 0.128                  | 0.138                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.03             | 0.549                  | 0.609                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.05            | 0.450                  | 0.484                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.11            | 0.751                  | 0.833                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 132072 | 1720        | 24.49               | 25.00               | 1.125                  | 0.15             | 0.746                  | 0.839                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 132572 | 1770        | 24.46               | 25.00               | 1.132                  | 0.05             | 0.764                  | 0.865                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | -0.16            | 0.615                  | 0.662                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 132072 | 1720        | 23.63               | 24.00               | 1.089                  | -0.05            | 0.612                  | 0.666                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 132572 | 1770        | 23.53               | 24.00               | 1.114                  | 0.04             | 0.617                  | 0.688                  |
|                                     | LTE Band 66_Ant 0B | 20M      | QPSK       | 100     | 0         | Bottom Side   | 10mm     | 132322 | 1745        | 23.6                | 24.00               | 1.096                  | 0.02             | 0.604                  | 0.662                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | 0.02             | 0.609                  | 0.698                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | -0.17            | 0.582                  | 0.667                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | 0.13             | 0.663                  | 0.759                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | -0.03            | 0.672                  | 0.770                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | 0.05             | 0.516                  | 0.591                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | -0.18            | 0.534                  | 0.612                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | -0.14            | 0.096                  | 0.110                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | 0.13             | 0.074                  | 0.085                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 132322 | 1745        | 21.91               | 22.50               | 1.146                  | 0.06             | 0.824                  | 0.944                  |
| 31                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 132072 | 1720        | 21.79               | 22.50               | 1.178                  | 0.13             | 0.831                  | 0.979                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 132572 | 1770        | 21.83               | 22.50               | 1.167                  | 0.08             | 0.816                  | 0.952                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 132322 | 1745        | 21.89               | 22.50               | 1.151                  | 0.03             | 0.809                  | 0.931                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 132072 | 1720        | 21.81               | 22.50               | 1.172                  | -0.04            | 0.801                  | 0.939                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 132572 | 1770        | 21.85               | 22.50               | 1.161                  | 0.04             | 0.814                  | 0.945                  |
|                                     | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 132322 | 1745        | 21.86               | 22.50               | 1.159                  | -0.05            | 0.803                  | 0.930                  |



| Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | 0.02             | 0.245                  | 0.283                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | -0.04            | 0.205                  | 0.231                  |
| 32                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.07            | 0.333                  | 0.385                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.13             | 0.272                  | 0.307                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.05            | 0.228                  | 0.264                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.16             | 0.182                  | 0.205                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.08            | 0.105                  | 0.121                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.17             | 0.074                  | 0.083                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | 0.16             | 0.261                  | 0.302                  |
|                                     | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.06             | 0.218                  | 0.246                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.05            | 0.178                  | 0.206                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | -0.14            | 0.142                  | 0.160                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.04            | 0.214                  | 0.247                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.16             | 0.175                  | 0.197                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | 0.09             | 0.128                  | 0.148                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | -0.05            | 0.104                  | 0.117                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | 0.08             | 0.042                  | 0.049                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.01             | 0.028                  | 0.032                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.03            | 0.096                  | 0.111                  |
|                                     | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0                | 0.068                  | 0.077                  |



## &lt;TDD LTE SAR&gt;

| Simultaneous Transmission is active |          |                     |          |            |         |           |               |          |       |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|---------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Note                                | Plot No. | Band                | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 22.4                | 22.50               | 1.023                  | 62.9         | 1.006                     | 0.04             | 0.418                  | 0.430                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 22.25               | 22.50               | 1.059                  | 62.9         | 1.006                     | -0.06            | 0.434                  | 0.462                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 22.4                | 22.50               | 1.023                  | 62.9         | 1.006                     | 0.17             | 0.567                  | 0.584                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 22.25               | 22.50               | 1.059                  | 62.9         | 1.006                     | 0.05             | 0.559                  | 0.596                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 39750 | 2506        | 22.4                | 22.50               | 1.023                  | 62.9         | 1.006                     | -0.02            | 0.086                  | 0.089                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 39750 | 2506        | 22.25               | 22.50               | 1.059                  | 62.9         | 1.006                     | 0.08             | 0.083                  | 0.088                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 39750 | 2506        | 22.4                | 22.50               | 1.023                  | 62.9         | 1.006                     | 0.03             | 0.791                  | 0.814                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 40185 | 2549.5      | 22.38               | 22.50               | 1.028                  | 62.9         | 1.006                     | -0.05            | 0.802                  | 0.829                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 40620 | 2593        | 22.37               | 22.50               | 1.030                  | 62.9         | 1.006                     | 0.16             | 0.814                  | 0.844                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 41055 | 2636.5      | 22.33               | 22.50               | 1.040                  | 62.9         | 1.006                     | -0.11            | 0.886                  | 0.927                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 41490 | 2680        | 22.31               | 22.50               | 1.045                  | 62.9         | 1.006                     | -0.04            | 0.843                  | 0.886                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 39750 | 2506        | 22.25               | 22.50               | 1.059                  | 62.9         | 1.006                     | 0.11             | 0.803                  | 0.856                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 100     | 0         | Right Side    | 10mm     | 39750 | 2506        | 22.26               | 22.50               | 1.057                  | 62.9         | 1.006                     | -0.05            | 0.811                  | 0.862                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 39750 | 2506        | 22.4                | 22.50               | 1.023                  | 62.9         | 1.006                     | -0.13            | 0.331                  | 0.341                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 39750 | 2506        | 22.25               | 22.50               | 1.059                  | 62.9         | 1.006                     | -0.01            | 0.335                  | 0.357                  |
| HPUE                                |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 40620 | 2593        | 23.67               | 24.50               | 1.211                  | 42.9         | 1.009                     | -0.11            | 0.759                  | 0.927                  |
|                                     |          | LTE Band 41C_Ant 0B | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 39750 | 2506        | 22.37               | 22.50               | 1.030                  | 62.9         | 1.006                     | 0.06             | 0.883                  | 0.915                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.12            | 0.168                  | 0.182                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | 0.15             | 0.138                  | 0.145                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.1             | 0.317                  | 0.343                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | 0.08             | 0.274                  | 0.288                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.09            | 0.073                  | 0.079                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | -0.15            | 0.060                  | 0.063                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | 0.09             | 0.455                  | 0.493                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | -0.13            | 0.372                  | 0.391                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Bottom Side   | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.11            | 0.084                  | 0.091                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Bottom Side   | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | 0.14             | 0.069                  | 0.073                  |
|                                     |          | LTE Band 41C_Ant 0C | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 39750 | 2506        | 24.72               | 25.00               | 1.067                  | 62.9         | 1.006                     | 0.05             | 0.446                  | 0.479                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0                | 0.564                  | 0.567                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | 0.03             | 0.532                  | 0.540                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | -0.14            | 0.683                  | 0.687                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | 0.11             | 0.662                  | 0.672                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Left Side     | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.05             | 0.245                  | 0.246                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Left Side     | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.16            | 0.233                  | 0.237                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Right Side    | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.02             | 0.141                  | 0.142                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Right Side    | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | 0.17             | 0.136                  | 0.138                  |
|                                     | 33       | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0                | 0.969                  | 0.975                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 40185 | 2549.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | 0.14             | 0.739                  | 0.748                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 40620 | 2593        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.05            | 0.954                  | 0.968                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 41055 | 2636.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | 0.06             | 0.929                  | 0.941                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 41490 | 2680        | 23.49               | 23.50               | 1.002                  | 62.9         | 1.006                     | 0.08             | 0.962                  | 0.970                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.11            | 0.914                  | 0.928                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 40185 | 2549.5      | 23.42               | 23.50               | 1.019                  | 62.9         | 1.006                     | 0.18             | 0.721                  | 0.739                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 40620 | 2593        | 23.44               | 23.50               | 1.014                  | 62.9         | 1.006                     | 0.02             | 0.942                  | 0.961                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 41055 | 2636.5      | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.04            | 0.916                  | 0.930                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Top Side      | 10mm     | 41490 | 2680        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.05            | 0.941                  | 0.955                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 100     | 0         | Top Side      | 10mm     | 39750 | 2506        | 23.44               | 23.50               | 1.014                  | 62.9         | 1.006                     | 0.16             | 0.906                  | 0.924                  |
| HPUE                                |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 39750 | 2506        | 24.60               | 25.50               | 1.230                  | 42.9         | 1.009                     | -0.05            | 0.781                  | 0.969                  |
|                                     |          | LTE Band 41C_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | -0.02            | 0.958                  | 0.964                  |

**<WLAN SAR>**

| Simultaneous Transmission is active |            |               |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|------------|---------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | 0.11             | 0.078                  | 0.084                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | -0.15            | 0.162                  | 0.175                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | 0.1              | 0.206                  | 0.222                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | -0.01            | 0.012                  | 0.013                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | -0.12            | 0.191                  | 0.207                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | -0.06            | 0.183                  | 0.198                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | 0.12             | 0.009                  | 0.010                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | 0.02             | 0.473                  | 0.512                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.71               | 18.00               | 1.069                  | 99.32        | 1.007                     | 0.06             | 0.291                  | 0.313                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | 0.06             | 0.323                  | 0.367                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.71               | 18.00               | 1.069                  | 99.32        | 1.007                     | -0.15            | 0.475                  | 0.511                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.15            | 0.361                  | 0.410                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.09            | 0.443                  | 0.503                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.09            | 0.063                  | 0.072                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.09            | 0.034                  | 0.039                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Right Side    | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.09            | 0.061                  | 0.069                  |
| 34                                  | WLAN2.4GHz | 802.11b 1Mbps | Top Side      | 10mm     | Ant 2+4    | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.07            | 0.463                  | 0.526                  |

| Simultaneous Transmission is active |          |                   |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|-------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band     | Mode              | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4      | 46  | 5230        | 19.15               | 20.00               | 1.216                  | 95.94        | 1.042                     | 0.01             | 0.063                  | 0.080                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4      | 46  | 5230        | 19.15               | 20.00               | 1.216                  | 95.94        | 1.042                     | 0.03             | 0.166                  | 0.210                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 10mm     | Ant 4      | 46  | 5230        | 19.15               | 20.00               | 1.216                  | 95.94        | 1.042                     | -0.19            | 0.009                  | 0.011                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | Ant 4      | 46  | 5230        | 19.15               | 20.00               | 1.216                  | 95.94        | 1.042                     | -0.01            | 0.102                  | 0.129                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 5      | 46  | 5230        | 16.6                | 17.00               | 1.096                  | 96.45        | 1.037                     | 0.01             | 0.041                  | 0.047                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 5      | 46  | 5230        | 16.6                | 17.00               | 1.096                  | 96.45        | 1.037                     | -0.08            | 0.261                  | 0.297                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Left Side     | 10mm     | Ant 5      | 46  | 5230        | 16.6                | 17.00               | 1.096                  | 96.45        | 1.037                     | 0.03             | 0.103                  | 0.117                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | Ant 5      | 46  | 5230        | 16.6                | 17.00               | 1.096                  | 96.45        | 1.037                     | 0.09             | 0.109                  | 0.124                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(4) | 46  | 5230        | 19.89               | 20.00               | 1.026                  | 95.45        | 1.048                     | 0.11             | 0.132                  | 0.142                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(5) | 46  | 5230        | 16.3                | 16.50               | 1.047                  | 95.45        | 1.048                     | 0.11             | 0.114                  | 0.125                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(4) | 46  | 5230        | 19.89               | 20.00               | 1.026                  | 95.45        | 1.048                     | 0.1              | 0.287                  | 0.308                  |
| 35                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(5) | 46  | 5230        | 16.3                | 16.50               | 1.047                  | 95.45        | 1.048                     | 0.1              | 0.361                  | 0.396                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Left Side     | 10mm     | Ant 4+5    | 46  | 5230        | 19.89               | 20.00               | 1.026                  | 95.45        | 1.048                     | 0.13             | 0.137                  | 0.147                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 10mm     | Ant 4+5    | 46  | 5230        | 16.3                | 16.50               | 1.047                  | 95.45        | 1.048                     | 0.07             | 0.031                  | 0.034                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | Ant 4+5(4) | 46  | 5230        | 19.89               | 20.00               | 1.026                  | 95.45        | 1.048                     | -0.19            | 0.184                  | 0.198                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 10mm     | Ant 4+5(5) | 46  | 5230        | 16.3                | 16.50               | 1.047                  | 95.45        | 1.048                     | -0.19            | 0.188                  | 0.206                  |

| Simultaneous Transmission is active |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|---------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4      | 155 | 5775        | 20.00               | 20.50               | 1.122                  | 92.4         | 1.082                     | 0.11             | 0.265                  | 0.322                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4      | 155 | 5775        | 20.00               | 20.50               | 1.122                  | 92.4         | 1.082                     | 0.06             | 0.201                  | 0.244                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4      | 155 | 5775        | 20.00               | 20.50               | 1.122                  | 92.4         | 1.082                     | -0.01            | 0.036                  | 0.044                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4      | 155 | 5775        | 20.00               | 20.50               | 1.122                  | 92.4         | 1.082                     | 0.03             | 0.211                  | 0.256                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 5      | 155 | 5775        | 16.10               | 16.50               | 1.096                  | 92.8         | 1.078                     | 0.03             | 0.031                  | 0.037                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 5      | 155 | 5775        | 16.10               | 16.50               | 1.096                  | 92.8         | 1.078                     | 0.08             | 0.233                  | 0.275                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 5      | 155 | 5775        | 16.10               | 16.50               | 1.096                  | 92.8         | 1.078                     | -0.03            | 0.103                  | 0.122                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 5      | 155 | 5775        | 16.10               | 16.50               | 1.096                  | 92.8         | 1.078                     | -0.11            | 0.054                  | 0.064                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(4) | 155 | 5775        | 19.42               | 20.50               | 1.282                  | 92.4         | 1.082                     | 0.06             | 0.071                  | 0.099                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(5) | 155 | 5775        | 16.80               | 17.00               | 1.047                  | 92.4         | 1.082                     | 0.06             | 0.109                  | 0.123                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 155 | 5775        | 19.42               | 20.50               | 1.282                  | 92.4         | 1.082                     | -0.13            | 0.271                  | 0.376                  |
| 36                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 155 | 5775        | 16.80               | 17.00               | 1.047                  | 92.4         | 1.082                     | -0.13            | 0.337                  | 0.382                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 10mm     | Ant 4+5    | 155 | 5775        | 19.42               | 20.50               | 1.282                  | 92.4         | 1.082                     | -0.04            | 0.106                  | 0.147                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 4+5    | 155 | 5775        | 19.42               | 20.50               | 1.282                  | 92.4         | 1.082                     | -0.09            | 0.021                  | 0.029                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+5(4) | 155 | 5775        | 19.42               | 20.50               | 1.282                  | 92.4         | 1.082                     | 0.12             | 0.142                  | 0.197                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 4+5(5) | 155 | 5775        | 16.80               | 17.00               | 1.047                  | 92.4         | 1.082                     | 0.12             | 0.186                  | 0.211                  |

### <Bluetooth SAR>

| Simultaneous Transmission is active |           |       |               |          |         |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | Bluetooth | 1Mbps | Front         | 10mm     | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | 0.01             | 0.122                  | 0.162                  |
|                                     | Bluetooth | 1Mbps | Back          | 0mm      | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | -0.07            | 0.128                  | 0.170                  |
| 37                                  | Bluetooth | 1Mbps | Left Side     | 10mm     | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | -0.09            | 0.141                  | 0.187                  |
|                                     | Bluetooth | 1Mbps | Top Side      | 10mm     | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | 0.11             | 0.005                  | 0.007                  |

## 15.3 Body Worn Accessory SAR

### <GSM SAR>

| Standalone                          |               |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|---------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band          | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 27.46               | 29.00               | 1.426                  | -0.09            | 0.661                  | 0.942                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Front         | 10mm     | 128 | 824.2       | 27.33               | 29.00               | 1.469                  | 0.11             | 0.576                  | 0.846                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Front         | 10mm     | 189 | 836.4       | 27.29               | 29.00               | 1.483                  | 0.12             | 0.557                  | 0.826                  |
| 38                                  | GSM850_Ant 0C | GPRS (4 Tx Isots) | Back          | 10mm     | 251 | 848.8       | 27.46               | 29.00               | 1.426                  | -0.11            | 0.838                  | 1.195                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 128 | 824.2       | 27.33               | 29.00               | 1.469                  | 0.03             | 0.811                  | 1.191                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 189 | 836.4       | 27.29               | 29.00               | 1.483                  | -0.05            | 0.802                  | 1.189                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.04             | 0.293                  | 0.347                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | -0.12            | 0.365                  | 0.433                  |
| Simultaneous Transmission is active |               |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band          | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | -0.09            | 0.661                  | 0.749                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx Isots) | Back          | 10mm     | 251 | 848.8       | 27.46               | 28.00               | 1.132                  | -0.11            | 0.838                  | 0.949                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 128 | 824.2       | 27.33               | 28.00               | 1.167                  | 0.03             | 0.811                  | 0.946                  |
|                                     | GSM850_Ant 0C | GPRS (4 Tx slots) | Back          | 10mm     | 189 | 836.4       | 27.29               | 28.00               | 1.178                  | -0.05            | 0.802                  | 0.944                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | 0.04             | 0.293                  | 0.347                  |
|                                     | GSM850_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 251 | 848.8       | 28.26               | 29.00               | 1.186                  | -0.12            | 0.365                  | 0.433                  |

| Standalone / Simultaneous Transmission is active |                |                   |               |          |     |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|----------------|-------------------|---------------|----------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band           | Mode              | Test Position | Gap (mm) | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | GSM1900_Ant 0B | GPRS (4 Tx slots) | Front         | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | -0.1             | 0.472                  | 0.625                  |
|                                                  | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 512 | 1850.2      | 25.28               | 26.50               | 1.324                  | 0.17             | 0.722                  | 0.956                  |
|                                                  | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 661 | 1880        | 25.11               | 26.50               | 1.377                  | 0.03             | 0.685                  | 0.943                  |
|                                                  | GSM1900_Ant 0B | GPRS (4 Tx slots) | Back          | 10mm     | 810 | 1909.8      | 25.27               | 26.50               | 1.327                  | -0.09            | 0.714                  | 0.948                  |
|                                                  | GSM1900_Ant 1  | GPRS (4 Tx slots) | Front         | 10mm     | 661 | 1880        | 24.83               | 26.00               | 1.309                  | 0                | 0.602                  | 0.788                  |
|                                                  | GSM1900_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 661 | 1880        | 24.83               | 26.00               | 1.309                  | -0.18            | 0.733                  | 0.960                  |
|                                                  | GSM1900_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 512 | 1850.2      | 24.78               | 26.00               | 1.324                  | -0.03            | 0.727                  | 0.963                  |
| 39                                               | GSM1900_Ant 1  | GPRS (4 Tx slots) | Back          | 10mm     | 810 | 1909.8      | 24.81               | 26.00               | 1.315                  | 0.14             | 0.741                  | 0.975                  |

**<WCDMA SAR>**

| Standalone                          |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 21.42               | 23.00               | 1.439                  | 0.03             | 0.627                  | 0.902                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 21.42               | 23.00               | 1.439                  | -0.07            | 0.805                  | 1.158                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9262 | 1852.4      | 21.23               | 23.00               | 1.503                  | 0.11             | 0.784                  | 1.178                  |
| 40                                  | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9538 | 1907.6      | 21.37               | 23.00               | 1.455                  | 0                | 0.815                  | 1.186                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 21.08               | 22.00               | 1.236                  | 0.05             | 0.746                  | 0.922                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9262 | 1852.4      | 20.91               | 22.00               | 1.285                  | -0.11            | 0.716                  | 0.920                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9538 | 1907.6      | 20.98               | 22.00               | 1.265                  | 0.06             | 0.701                  | 0.887                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 21.08               | 22.00               | 1.236                  | 0.07             | 0.866                  | 1.070                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9262 | 1852.4      | 20.91               | 22.00               | 1.285                  | 0.09             | 0.823                  | 1.058                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9538 | 1907.6      | 20.98               | 22.00               | 1.265                  | 0.01             | 0.830                  | 1.050                  |
| Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | 0.03             | 0.627                  | 0.717                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 21.42               | 22.00               | 1.143                  | -0.07            | 0.805                  | 0.920                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9262 | 1852.4      | 21.23               | 22.00               | 1.194                  | 0.11             | 0.784                  | 0.936                  |
|                                     | WCDMA II_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 9538 | 1907.6      | 21.37               | 22.00               | 1.156                  | 0                | 0.815                  | 0.942                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9400 | 1880        | 21.08               | 21.50               | 1.102                  | 0.05             | 0.746                  | 0.822                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9262 | 1852.4      | 20.91               | 21.50               | 1.146                  | -0.11            | 0.716                  | 0.820                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 9538 | 1907.6      | 20.98               | 21.50               | 1.127                  | 0.06             | 0.701                  | 0.790                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9400 | 1880        | 21.08               | 21.50               | 1.102                  | 0.07             | 0.866                  | 0.954                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9262 | 1852.4      | 20.91               | 21.50               | 1.146                  | 0.09             | 0.823                  | 0.943                  |
|                                     | WCDMA II_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 9538 | 1907.6      | 20.98               | 21.50               | 1.127                  | 0.01             | 0.830                  | 0.936                  |

| Standalone / Simultaneous Transmission is active |                 |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|-----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band            | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | WCDMA IV_Ant 0B | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.03             | 0.516                  | 0.599                  |
|                                                  | WCDMA IV_Ant 0B | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.09             | 0.646                  | 0.750                  |
|                                                  | WCDMA IV_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.05             | 0.309                  | 0.359                  |
|                                                  | WCDMA IV_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 24.35               | 25.00               | 1.161                  | 0.11             | 0.385                  | 0.447                  |
|                                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 1413 | 1732.6      | 22.5                | 23.00               | 1.122                  | -0.09            | 0.725                  | 0.813                  |
|                                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 1312 | 1712.4      | 22.46               | 23.00               | 1.132                  | 0.02             | 0.711                  | 0.805                  |
|                                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 1513 | 1752.6      | 22.41               | 23.00               | 1.146                  | 0.06             | 0.698                  | 0.800                  |
| 41                                               | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1413 | 1732.6      | 22.5                | 23.00               | 1.122                  | 0.12             | 0.863                  | 0.968                  |
|                                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1312 | 1712.4      | 22.46               | 23.00               | 1.132                  | 0.08             | 0.842                  | 0.953                  |
|                                                  | WCDMA IV_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 1513 | 1752.6      | 22.41               | 23.00               | 1.146                  | 0.15             | 0.837                  | 0.959                  |

| Standalone                          |                |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|----------------|--------------|---------------|----------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band           | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 23.58               | 25.00               | 1.387                  | 0.02             | 0.578                  | 0.802                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4132 | 826.4       | 23.53               | 25.00               | 1.403                  | 0.05             | 0.533                  | 0.748                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4182 | 836.4       | 23.54               | 25.00               | 1.400                  | 0.08             | 0.529                  | 0.740                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 23.58               | 25.00               | 1.387                  | -0.04            | 0.846                  | 1.173                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4132 | 826.4       | 23.53               | 25.00               | 1.403                  | 0.13             | 0.823                  | 1.155                  |
| 42                                  | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4182 | 836.4       | 23.54               | 25.00               | 1.400                  | 0.13             | 0.847                  | 1.185                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.01             | 0.337                  | 0.419                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.11             | 0.425                  | 0.529                  |
| Simultaneous Transmission is active |                |              |               |          |      |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band           | Mode         | Test Position | Gap (mm) | Ch.  | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | 0.02             | 0.578                  | 0.637                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4132 | 826.4       | 23.53               | 24.00               | 1.114                  | 0.05             | 0.533                  | 0.594                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Front         | 10mm     | 4182 | 836.4       | 23.54               | 24.00               | 1.112                  | 0.08             | 0.529                  | 0.588                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 23.58               | 24.00               | 1.102                  | -0.04            | 0.846                  | 0.932                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4132 | 826.4       | 23.53               | 24.00               | 1.114                  | 0.13             | 0.823                  | 0.917                  |
|                                     | WCDMA V_Ant 0C | RMC 12.2Kbps | Back          | 10mm     | 4182 | 836.4       | 23.54               | 24.00               | 1.112                  | 0.13             | 0.857                  | 0.953                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Front         | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.01             | 0.337                  | 0.419                  |
|                                     | WCDMA V_Ant 1  | RMC 12.2Kbps | Back          | 10mm     | 4233 | 846.6       | 24.05               | 25.00               | 1.245                  | 0.11             | 0.425                  | 0.529                  |

**<FDD LTE SAR>**

| Standalone / Simultaneous Transmission is active |                   |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|-------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band              | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.02             | 0.299                  | 0.342                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.04            | 0.242                  | 0.273                  |
| 43                                               | LTE Band 4_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 20175 | 1732.5      | 24.42               | 25.00               | 1.143                  | 0.05             | 0.346                  | 0.395                  |
|                                                  | LTE Band 4_Ant 0C | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 20175 | 1732.5      | 23.48               | 24.00               | 1.127                  | -0.11            | 0.305                  | 0.344                  |



| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | 0.17             | 0.426                  | 0.463                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | 0.03             | 0.411                  | 0.459                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | -0.05            | 0.671                  | 0.729                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | -0.04            | 0.684                  | 0.764                  |
|                                     | LTE Band 7C_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 21.84               | 22.00               | 1.038                  | 0.11             | 0.699                  | 0.725                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.14             | 0.410                  | 0.474                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.06             | 0.330                  | 0.376                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.02            | 0.590                  | 0.682                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.09             | 0.515                  | 0.587                  |
|                                     | LTE Band 7C_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 23.8                | 25.00               | 1.318                  | 0.11             | 0.492                  | 0.649                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 21.39               | 23.00               | 1.449                  | 0.02             | 0.482                  | 0.698                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 21.32               | 23.00               | 1.472                  | -0.04            | 0.442                  | 0.651                  |
| 44                                  | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 21.39               | 23.00               | 1.449                  | 0.11             | 0.644                  | 0.933                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 20850 | 2510        | 21.29               | 23.00               | 1.483                  | 0.06             | 0.623                  | 0.924                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21100 | 2535        | 21.31               | 23.00               | 1.476                  | -0.05            | 0.622                  | 0.918                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 21.32               | 23.00               | 1.472                  | -0.13            | 0.621                  | 0.914                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 20850 | 2510        | 21.21               | 23.00               | 1.510                  | 0.03             | 0.608                  | 0.918                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21100 | 2535        | 21.25               | 23.00               | 1.496                  | -0.07            | 0.605                  | 0.905                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 21350 | 2560        | 21.14               | 23.00               | 1.535                  | 0.04             | 0.607                  | 0.932                  |
|                                     | LTE Band 7C_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 21.33               | 23.00               | 1.469                  | -0.02            | 0.632                  | 0.928                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | 0.17             | 0.426                  | 0.463                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | 0.03             | 0.411                  | 0.459                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 21.64               | 22.00               | 1.086                  | -0.05            | 0.671                  | 0.729                  |
|                                     | LTE Band 7_Ant 0B  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 21.52               | 22.00               | 1.117                  | -0.04            | 0.684                  | 0.764                  |
|                                     | LTE Band 7C_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 21.84               | 22.00               | 1.038                  | 0.11             | 0.699                  | 0.725                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | 0.14             | 0.410                  | 0.474                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.06             | 0.330                  | 0.376                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 24.37               | 25.00               | 1.156                  | -0.02            | 0.590                  | 0.682                  |
|                                     | LTE Band 7_Ant 0C  | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 23.43               | 24.00               | 1.140                  | 0.09             | 0.515                  | 0.587                  |
|                                     | LTE Band 7C_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 23.80               | 25.00               | 1.318                  | 0.11             | 0.492                  | 0.649                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Front         | 10mm     | 21350 | 2560        | 21.39               | 21.50               | 1.026                  | 0.02             | 0.482                  | 0.494                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Front         | 10mm     | 21350 | 2560        | 21.32               | 21.50               | 1.042                  | -0.04            | 0.442                  | 0.461                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21350 | 2560        | 21.39               | 21.50               | 1.026                  | 0.11             | 0.644                  | 0.661                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 20850 | 2510        | 21.29               | 21.50               | 1.050                  | 0.06             | 0.623                  | 0.654                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 1       | 99        | Back          | 10mm     | 21100 | 2535        | 21.31               | 21.50               | 1.045                  | -0.05            | 0.622                  | 0.650                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21350 | 2560        | 21.32               | 21.50               | 1.042                  | -0.13            | 0.621                  | 0.647                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 20850 | 2510        | 21.21               | 21.50               | 1.069                  | 0.03             | 0.608                  | 0.650                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 50      | 50        | Back          | 10mm     | 21100 | 2535        | 21.25               | 21.50               | 1.059                  | -0.07            | 0.605                  | 0.641                  |
|                                     | LTE Band 7_Ant 1   | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 21350 | 2560        | 21.14               | 21.50               | 1.086                  | 0.04             | 0.607                  | 0.659                  |
|                                     | LTE Band 7C_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 21100 | 2535        | 21.33               | 21.50               | 1.040                  | -0.02            | 0.632                  | 0.657                  |

| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.01             | 0.223                  | 0.253                  |
|                                                  | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0                | 0.181                  | 0.200                  |
| 45                                               | LTE Band 12_Ant 0C | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.11            | 0.289                  | 0.328                  |
|                                                  | LTE Band 12_Ant 0C | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.08            | 0.236                  | 0.261                  |
|                                                  | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Front         | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | -0.07            | 0.210                  | 0.238                  |
|                                                  | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Front         | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | 0.08             | 0.174                  | 0.193                  |
|                                                  | LTE Band 12_Ant 1  | 10M      | QPSK       | 1       | 49        | Back          | 10mm     | 23095 | 707.5       | 24.45               | 25.00               | 1.135                  | 0.02             | 0.235                  | 0.267                  |
|                                                  | LTE Band 12_Ant 1  | 10M      | QPSK       | 25      | 12        | Back          | 10mm     | 23095 | 707.5       | 23.56               | 24.00               | 1.107                  | -0.11            | 0.193                  | 0.214                  |

| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0                | 0.482                  | 0.552                  |
|                                                  | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.1              | 0.387                  | 0.435                  |
| 46                                               | LTE Band 13_Ant 0C | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.01            | 0.568                  | 0.651                  |
|                                                  | LTE Band 13_Ant 0C | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.03             | 0.459                  | 0.516                  |
|                                                  | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Front         | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | 0.13             | 0.371                  | 0.425                  |
|                                                  | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Front         | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | -0.03            | 0.292                  | 0.328                  |
|                                                  | LTE Band 13_Ant 1  | 10M      | QPSK       | 1       | 0         | Back          | 10mm     | 23230 | 782         | 24.41               | 25.00               | 1.146                  | -0.1             | 0.438                  | 0.502                  |
|                                                  | LTE Band 13_Ant 1  | 10M      | QPSK       | 25      | 0         | Back          | 10mm     | 23230 | 782         | 23.49               | 24.00               | 1.125                  | 0.02             | 0.355                  | 0.399                  |



| Standalone                          |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|-------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26340 | 1880        | 21.62               | 22.50               | 1.225                  | 0.03             | 0.562                  | 0.688                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26340 | 1880        | 21.47               | 22.50               | 1.268                  | -0.02            | 0.571                  | 0.724                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.62               | 22.50               | 1.225                  | 0.17             | 0.745                  | 0.912                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.53               | 22.50               | 1.250                  | 0.05             | 0.753                  | 0.941                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.54               | 22.50               | 1.247                  | 0.05             | 0.861                  | 1.074                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.47               | 22.50               | 1.268                  | -0.02            | 0.728                  | 0.923                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.39               | 22.50               | 1.291                  | -0.14            | 0.716                  | 0.925                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.41               | 22.50               | 1.285                  | 0.03             | 0.831                  | 1.068                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26340 | 1880        | 21.45               | 22.50               | 1.274                  | 0.01             | 0.819                  | 1.043                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26590 | 1905        | 21.86               | 22.50               | 1.159                  | -0.05            | 0.780                  | 0.904                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.50               | 1.178                  | 0.15             | 0.761                  | 0.896                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26140 | 1860        | 21.77               | 22.50               | 1.183                  | 0.03             | 0.753                  | 0.891                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26590 | 1905        | 21.68               | 22.50               | 1.208                  | -0.04            | 0.787                  | 0.951                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.50               | 1.178                  | 0.05             | 0.772                  | 0.909                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26140 | 1860        | 21.77               | 22.50               | 1.183                  | -0.02            | 0.749                  | 0.886                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.50               | 1.178                  | 0.14             | 0.761                  | 0.896                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.86               | 22.50               | 1.159                  | -0.01            | 0.863                  | 1.000                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.79               | 22.50               | 1.178                  | -0.04            | 0.882                  | 1.039                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.77               | 22.50               | 1.183                  | -0.04            | 0.811                  | 0.959                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.68               | 22.50               | 1.208                  | 0.01             | 0.867                  | 1.047                  |
| 47                                  | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.66               | 22.50               | 1.213                  | -0.11            | 0.904                  | 1.097                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.65               | 22.50               | 1.216                  | -0.15            | 0.821                  | 0.998                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26340 | 1880        | 21.79               | 22.50               | 1.178                  | -0.01            | 0.918                  | 1.081                  |
| Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
| Plot No.                            | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | 0.03             | 0.562                  | 0.613                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.02            | 0.571                  | 0.645                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.62               | 22.00               | 1.091                  | 0.17             | 0.745                  | 0.813                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.53               | 22.00               | 1.114                  | 0.05             | 0.753                  | 0.839                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.54               | 22.00               | 1.112                  | 0.05             | 0.861                  | 0.957                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.47               | 22.00               | 1.130                  | -0.02            | 0.728                  | 0.822                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.39               | 22.00               | 1.151                  | -0.14            | 0.716                  | 0.824                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.41               | 22.00               | 1.146                  | 0.03             | 0.831                  | 0.952                  |
|                                     | LTE Band 25_Ant 0B | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26340 | 1880        | 21.45               | 22.00               | 1.135                  | 0.01             | 0.819                  | 0.930                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26590 | 1905        | 21.86               | 22.00               | 1.033                  | -0.05            | 0.780                  | 0.806                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.00               | 1.050                  | 0.15             | 0.761                  | 0.799                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 26140 | 1860        | 21.77               | 22.00               | 1.054                  | 0.03             | 0.753                  | 0.794                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26590 | 1905        | 21.68               | 22.00               | 1.076                  | -0.04            | 0.787                  | 0.847                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.00               | 1.050                  | 0.05             | 0.772                  | 0.810                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 26140 | 1860        | 21.77               | 22.00               | 1.054                  | -0.02            | 0.749                  | 0.790                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 26340 | 1880        | 21.79               | 22.00               | 1.050                  | 0.14             | 0.761                  | 0.799                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26590 | 1905        | 21.86               | 22.00               | 1.033                  | -0.01            | 0.863                  | 0.891                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26340 | 1880        | 21.79               | 22.00               | 1.050                  | -0.04            | 0.882                  | 0.926                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 26140 | 1860        | 21.77               | 22.00               | 1.054                  | -0.04            | 0.811                  | 0.855                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26590 | 1905        | 21.68               | 22.00               | 1.076                  | 0.01             | 0.867                  | 0.933                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26340 | 1880        | 21.66               | 22.00               | 1.081                  | -0.11            | 0.904                  | 0.978                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 26140 | 1860        | 21.65               | 22.00               | 1.084                  | -0.15            | 0.821                  | 0.890                  |
|                                     | LTE Band 25_Ant 1  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 26340 | 1880        | 21.79               | 22.00               | 1.050                  | -0.01            | 0.918                  | 0.963                  |

| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.03             | 0.651                  | 0.746                  |
|                                                  | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.05            | 0.532                  | 0.594                  |
| 48                                               | LTE Band 26_Ant 0C | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.09            | 0.859                  | 0.984                  |
|                                                  | LTE Band 26_Ant 0C | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | 0.01             | 0.711                  | 0.794                  |
|                                                  | LTE Band 26_Ant 0C | 15M      | QPSK       | 75      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.47               | 24.00               | 1.130                  | 0.18             | 0.705                  | 0.797                  |
|                                                  | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Front         | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | 0.04             | 0.317                  | 0.363                  |
|                                                  | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Front         | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.13            | 0.256                  | 0.286                  |
|                                                  | LTE Band 26_Ant 1  | 15M      | QPSK       | 1       | 0         | Back          | 10mm     | 26865 | 831.5       | 24.41               | 25.00               | 1.146                  | -0.14            | 0.441                  | 0.505                  |
|                                                  | LTE Band 26_Ant 1  | 15M      | QPSK       | 36      | 0         | Back          | 10mm     | 26865 | 831.5       | 23.52               | 24.00               | 1.117                  | -0.06            | 0.358                  | 0.400                  |

| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | 0.06             | 0.643                  | 0.713                  |
|                                                  | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0                | 0.525                  | 0.565                  |
|                                                  | LTE Band 66_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132322 | 1745        | 24.55               | 25.00               | 1.109                  | -0.02            | 0.662                  | 0.734                  |
|                                                  | LTE Band 66_Ant 0B | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132322 | 1745        | 23.68               | 24.00               | 1.076                  | 0.08             | 0.542                  | 0.583                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132322 | 1745        | 22.68               | 23.00               | 1.076                  | 0                | 0.762                  | 0.820                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132572 | 1770        | 22.6                | 23.00               | 1.096                  | -0.04            | 0.796                  | 0.873                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 132072 | 1720        | 22.49               | 23.00               | 1.125                  | 0                | 0.753                  | 0.847                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132322 | 1745        | 22.52               | 23.00               | 1.117                  | -0.1             | 0.789                  | 0.881                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132572 | 1770        | 22.46               | 23.00               | 1.132                  | 0.12             | 0.781                  | 0.884                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 132072 | 1720        | 22.39               | 23.00               | 1.151                  | -0.17            | 0.773                  | 0.890                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 132322 | 1745        | 22.45               | 23.00               | 1.135                  | 0.15             | 0.724                  | 0.822                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132322 | 1745        | 22.68               | 23.00               | 1.076                  | 0.01             | 0.822                  | 0.885                  |
| 49                                               | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132572 | 1770        | 22.6                | 23.00               | 1.096                  | 0.03             | 0.878                  | 0.963                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 132072 | 1720        | 22.49               | 23.00               | 1.125                  | 0                | 0.831                  | 0.935                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132322 | 1745        | 22.52               | 23.00               | 1.117                  | 0.1              | 0.786                  | 0.878                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132572 | 1770        | 22.46               | 23.00               | 1.132                  | 0.15             | 0.820                  | 0.929                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 132072 | 1720        | 22.39               | 23.00               | 1.151                  | 0.14             | 0.791                  | 0.910                  |
|                                                  | LTE Band 66_Ant 1  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 132322 | 1745        | 22.45               | 23.00               | 1.135                  | 0.03             | 0.799                  | 0.907                  |

| Standalone / Simultaneous Transmission is active |                    |          |            |         |           |               |          |        |             |                     |                     |                        |                  |                        |                        |
|--------------------------------------------------|--------------------|----------|------------|---------|-----------|---------------|----------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| Plot No.                                         | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.    | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | 0.02             | 0.245                  | 0.283                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | -0.04            | 0.205                  | 0.231                  |
| 50                                               | LTE Band 71_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.07            | 0.333                  | 0.385                  |
|                                                  | LTE Band 71_Ant 0C | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.13             | 0.272                  | 0.307                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.05            | 0.178                  | 0.206                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | -0.14            | 0.142                  | 0.160                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 133297 | 680.5       | 24.37               | 25.00               | 1.156                  | -0.04            | 0.214                  | 0.247                  |
|                                                  | LTE Band 71_Ant 1  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 133297 | 680.5       | 23.48               | 24.00               | 1.127                  | 0.16             | 0.175                  | 0.197                  |



## &lt;TDD LTE SAR&gt;

| Standalone                          |          |                     |          |            |         |           |               |          |       |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|---------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Note                                | Plot No. | Band                | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.03             | 0.539                  | 0.542                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.04            | 0.526                  | 0.534                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0                | 0.755                  | 0.760                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40185 | 2549.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | 0.03             | 0.724                  | 0.733                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40620 | 2593        | 23.45               | 23.50               | 1.012                  | 62.9         | 1.006                     | -0.02            | 0.728                  | 0.741                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41055 | 2636.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | -0.14            | 0.740                  | 0.750                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41490 | 2680        | 23.49               | 23.50               | 1.002                  | 62.9         | 1.006                     | 0.11             | 0.719                  | 0.725                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | 0.11             | 0.739                  | 0.750                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 39750 | 2506        | 23.44               | 23.50               | 1.014                  | 62.9         | 1.006                     | 0.07             | 0.731                  | 0.746                  |
| HPUE                                |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 25.31               | 25.50               | 1.045                  | 42.9         | 1.009                     | 0.07             | 0.715                  | 0.754                  |
|                                     |          | LTE Band 41C_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.08             | 0.734                  | 0.738                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.12            | 0.168                  | 0.182                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | 0.15             | 0.138                  | 0.145                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.1             | 0.317                  | 0.343                  |
|                                     |          | LTE Band 41_Ant 0C  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.81               | 24.00               | 1.045                  | 62.9         | 1.006                     | 0.08             | 0.274                  | 0.288                  |
|                                     |          | LTE Band 41C_Ant 0C | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 24.72               | 25.00               | 1.067                  | 62.9         | 1.006                     | 0.08             | 0.305                  | 0.327                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 23.68               | 25.00               | 1.355                  | 62.9         | 1.006                     | -0.02            | 0.584                  | 0.796                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 40185 | 2549.5      | 23.44               | 25.00               | 1.432                  | 62.9         | 1.006                     | 0.14             | 0.581                  | 0.837                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 40620 | 2593        | 23.51               | 25.00               | 1.409                  | 62.9         | 1.006                     | 0.06             | 0.573                  | 0.812                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 41055 | 2636.5      | 23.34               | 25.00               | 1.466                  | 62.9         | 1.006                     | -0.02            | 0.588                  | 0.867                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 41490 | 2680        | 23.42               | 25.00               | 1.439                  | 62.9         | 1.006                     | 0.09             | 0.562                  | 0.813                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.44               | 25.00               | 1.432                  | 62.9         | 1.006                     | 0.07             | 0.412                  | 0.594                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 100     | 0         | Front         | 10mm     | 39750 | 2506        | 23.37               | 25.00               | 1.455                  | 62.9         | 1.006                     | 0                | 0.409                  | 0.599                  |
|                                     | 51       | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.68               | 25.00               | 1.355                  | 62.9         | 1.006                     | -0.1             | 0.711                  | 0.969                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40185 | 2549.5      | 23.44               | 25.00               | 1.432                  | 62.9         | 1.006                     | 0.04             | 0.642                  | 0.925                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40620 | 2593        | 23.51               | 25.00               | 1.409                  | 62.9         | 1.006                     | 0.07             | 0.651                  | 0.923                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41055 | 2636.5      | 23.34               | 25.00               | 1.466                  | 62.9         | 1.006                     | 0                | 0.654                  | 0.964                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41490 | 2680        | 23.42               | 25.00               | 1.439                  | 62.9         | 1.006                     | -0.11            | 0.642                  | 0.929                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.44               | 25.00               | 1.432                  | 62.9         | 1.006                     | 0.13             | 0.649                  | 0.935                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 40185 | 2549.5      | 23.37               | 25.00               | 1.455                  | 62.9         | 1.006                     | -0.19            | 0.551                  | 0.807                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 40620 | 2593        | 23.37               | 25.00               | 1.455                  | 62.9         | 1.006                     | 0.13             | 0.523                  | 0.766                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 41055 | 2636.5      | 23.31               | 25.00               | 1.476                  | 62.9         | 1.006                     | 0.05             | 0.533                  | 0.791                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 41490 | 2680        | 23.36               | 25.00               | 1.459                  | 62.9         | 1.006                     | -0.11            | 0.514                  | 0.754                  |
|                                     |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 39750 | 2506        | 23.37               | 25.00               | 1.455                  | 62.9         | 1.006                     | 0.07             | 0.503                  | 0.736                  |
| HPUE                                |          | LTE Band 41_Ant 1   | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 25.13               | 27.00               | 1.538                  | 42.9         | 1.009                     | -0.1             | 0.618                  | 0.959                  |
|                                     |          | LTE Band 41C_Ant 1  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.96               | 25.00               | 1.271                  | 62.9         | 1.006                     | 0.08             | 0.732                  | 0.936                  |
| Simultaneous Transmission is active |          |                     |          |            |         |           |               |          |       |             |                     |                     |                        |              |                           |                  |                        |                        |
| Note                                | Plot No. | Band                | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Front         | 10mm     | 39750 | 2506        | 23.5                | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.03             | 0.539                  | 0.542                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Front         | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | -0.04            | 0.526                  | 0.534                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.5                | 23.50               | 1.000                  | 62.9         | 1.006                     | 0                | 0.755                  | 0.760                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40185 | 2549.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | 0.03             | 0.724                  | 0.733                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 40620 | 2593        | 23.45               | 23.50               | 1.012                  | 62.9         | 1.006                     | -0.02            | 0.728                  | 0.741                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41055 | 2636.5      | 23.47               | 23.50               | 1.007                  | 62.9         | 1.006                     | -0.14            | 0.740                  | 0.750                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 41490 | 2680        | 23.49               | 23.50               | 1.002                  | 62.9         | 1.006                     | 0.11             | 0.719                  | 0.725                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 50      | 0         | Back          | 10mm     | 39750 | 2506        | 23.46               | 23.50               | 1.009                  | 62.9         | 1.006                     | 0.11             | 0.739                  | 0.750                  |
|                                     |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 100     | 0         | Back          | 10mm     | 39750 | 2506        | 23.44               | 23.50               | 1.014                  | 62.9         | 1.006                     | 0.07             | 0.731                  | 0.746                  |
| HPUE                                |          | LTE Band 41_Ant 0B  | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 25.31               | 23.50               | 1.045                  | 42.9         | 1.009                     | 0.07             | 0.715                  | 0.754                  |
|                                     |          | LTE Band 41C_Ant 0B | 20M      | QPSK       | 1       | 0         | Back          | 10mm     | 39750 | 2506        | 23.5                | 23.50               | 1.000                  | 62.9         | 1.006                     | 0.08             | 0.752                  | 0.757                  |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|      |  |                     |     |      |     |   |       |      |       |        |       |       |       |      |       |       |       |       |
|------|--|---------------------|-----|------|-----|---|-------|------|-------|--------|-------|-------|-------|------|-------|-------|-------|-------|
|      |  | LTE Band 41_Ant 0C  | 20M | QPSK | 1   | 0 | Front | 10mm | 39750 | 2506   | 24.68 | 25.00 | 1.076 | 62.9 | 1.006 | -0.12 | 0.168 | 0.182 |
|      |  | LTE Band 41_Ant 0C  | 20M | QPSK | 50  | 0 | Front | 10mm | 39750 | 2506   | 23.81 | 24.00 | 1.045 | 62.9 | 1.006 | 0.15  | 0.138 | 0.145 |
|      |  | LTE Band 41_Ant 0C  | 20M | QPSK | 1   | 0 | Back  | 10mm | 39750 | 2506   | 24.68 | 25.00 | 1.076 | 62.9 | 1.006 | -0.1  | 0.317 | 0.343 |
|      |  | LTE Band 41_Ant 0C  | 20M | QPSK | 50  | 0 | Back  | 10mm | 39750 | 2506   | 23.81 | 24.00 | 1.045 | 62.9 | 1.006 | 0.08  | 0.274 | 0.288 |
|      |  | LTE Band 41C_Ant 0C | 20M | QPSK | 1   | 0 | Back  | 10mm | 39750 | 2506   | 24.72 | 25.00 | 1.067 | 62.9 | 1.006 | 0.03  | 0.315 | 0.338 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Front | 10mm | 39750 | 2506   | 23.68 | 24.00 | 1.076 | 62.9 | 1.006 | -0.02 | 0.584 | 0.632 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Front | 10mm | 40185 | 2549.5 | 23.44 | 24.00 | 1.138 | 62.9 | 1.006 | 0.14  | 0.581 | 0.665 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Front | 10mm | 40620 | 2593   | 23.51 | 24.00 | 1.119 | 62.9 | 1.006 | 0.06  | 0.573 | 0.645 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Front | 10mm | 41055 | 2636.5 | 23.34 | 24.00 | 1.164 | 62.9 | 1.006 | -0.02 | 0.588 | 0.689 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Front | 10mm | 41490 | 2680   | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | 0.09  | 0.562 | 0.646 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Front | 10mm | 39750 | 2506   | 23.44 | 24.00 | 1.138 | 62.9 | 1.006 | 0.07  | 0.412 | 0.472 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 100 | 0 | Front | 10mm | 39750 | 2506   | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | 0     | 0.409 | 0.476 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 39750 | 2506   | 23.68 | 24.00 | 1.076 | 62.9 | 1.006 | -0.1  | 0.711 | 0.770 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 40185 | 2549.5 | 23.44 | 24.00 | 1.138 | 62.9 | 1.006 | 0.04  | 0.642 | 0.735 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 40620 | 2593   | 23.51 | 24.00 | 1.119 | 62.9 | 1.006 | 0.07  | 0.651 | 0.733 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 41055 | 2636.5 | 23.34 | 24.00 | 1.164 | 62.9 | 1.006 | 0     | 0.654 | 0.766 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 41490 | 2680   | 23.42 | 24.00 | 1.143 | 62.9 | 1.006 | -0.11 | 0.642 | 0.738 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Back  | 10mm | 39750 | 2506   | 23.44 | 24.00 | 1.138 | 62.9 | 1.006 | 0.13  | 0.649 | 0.743 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Back  | 10mm | 40185 | 2549.5 | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | -0.19 | 0.551 | 0.641 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Back  | 10mm | 40620 | 2593   | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | 0.13  | 0.523 | 0.608 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Back  | 10mm | 41055 | 2636.5 | 23.31 | 24.00 | 1.172 | 62.9 | 1.006 | 0.05  | 0.533 | 0.629 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 50  | 0 | Back  | 10mm | 41490 | 2680   | 23.36 | 24.00 | 1.159 | 62.9 | 1.006 | -0.11 | 0.514 | 0.599 |
|      |  | LTE Band 41_Ant 1   | 20M | QPSK | 100 | 0 | Back  | 10mm | 39750 | 2506   | 23.37 | 24.00 | 1.156 | 62.9 | 1.006 | 0.07  | 0.503 | 0.585 |
| HPUE |  | LTE Band 41_Ant 1   | 20M | QPSK | 1   | 0 | Back  | 10mm | 39750 | 2506   | 25.13 | 26.00 | 1.222 | 42.9 | 1.009 | -0.1  | 0.618 | 0.762 |
|      |  | LTE Band 41C_Ant 1  | 20M | QPSK | 1   | 0 | Back  | 10mm | 39750 | 2506   | 23.96 | 24.00 | 1.009 | 62.9 | 1.006 | -0.14 | 0.744 | 0.755 |

## <WLAN SAR>

### General Note:

- Add antenna 2 power level of 23dBm is consider MIMO operation in SISO chain, If the sum of 1g single transmission chain SAR measurements is < 1.6W/kg and SAR peak to location ratio ≤ 0.04, therefore, additional worst configuration MIMO operation for 2.4GHz WLAN antenna 2 to show simultaneous transmission with antenna 4 compliance.

| Standalone                          |            |               |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|------------|---------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2      | 1   | 2412        | 20.89               | 21.50               | 1.151                  | 99.2         | 1.008                     | 0.1              | 0.513                  | 0.595                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2      | 1   | 2412        | 20.89               | 21.50               | 1.151                  | 99.2         | 1.008                     | -0.06            | 0.672                  | 0.780                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2      | 1   | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | 0.01             | 0.644                  | 0.728                  |
| 52                                  | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2      | 1   | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | -0.06            | 0.902                  | 1.020                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2      | 11  | 2462        | 19.70               | 20.50               | 1.202                  | 99.2         | 1.008                     | 0.14             | 0.488                  | 0.591                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4      | 1   | 2412        | 20.80               | 21.00               | 1.047                  | 99           | 1.010                     | 0.11             | 0.437                  | 0.462                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4      | 1   | 2412        | 20.80               | 21.00               | 1.047                  | 99           | 1.010                     | -0.04            | 0.480                  | 0.508                  |
| Simultaneous Transmission is active |            |               |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band       | Mode          | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | 0.11             | 0.078                  | 0.084                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2      | 6   | 2437        | 15.20               | 15.50               | 1.072                  | 99.2         | 1.008                     | -0.15            | 0.162                  | 0.175                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | -0.12            | 0.191                  | 0.207                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 4      | 1   | 2412        | 17.70               | 18.00               | 1.072                  | 99           | 1.010                     | -0.06            | 0.183                  | 0.198                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.71               | 18.00               | 1.069                  | 99.32        | 1.007                     | 0.06             | 0.291                  | 0.313                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Front         | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | 0.06             | 0.323                  | 0.367                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2+4(2) | 6   | 2437        | 17.71               | 18.00               | 1.069                  | 99.32        | 1.007                     | -0.15            | 0.475                  | 0.511                  |
|                                     | WLAN2.4GHz | 802.11b 1Mbps | Back          | 10mm     | Ant 2+4(4) | 6   | 2437        | 17.48               | 18.00               | 1.127                  | 99.32        | 1.007                     | -0.15            | 0.361                  | 0.410                  |

| Standalone                          |          |                   |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|-------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band     | Mode              | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4      | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | 0.09             | 0.083                  | 0.102                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4      | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | -0.03            | 0.263                  | 0.322                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 5      | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | 0.02             | 0.077                  | 0.082                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 5      | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | -0.11            | 0.744                  | 0.789                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(4) | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 95.45        | 1.048                     | 0.11             | 0.103                  | 0.121                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(5) | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 95.45        | 1.048                     | 0.11             | 0.110                  | 0.129                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(4) | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 95.45        | 1.048                     | -0.19            | 0.181                  | 0.213                  |
| 54                                  | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(5) | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 95.45        | 1.048                     | -0.19            | 0.714                  | 0.840                  |
|                                     | WLAN5GHz | 802.11a 6Mbps     | Back          | 10mm     | Ant 4+5(4) | 52  | 5260        | 18.40               | 19.00               | 1.148                  | 98.1         | 1.019                     | -0.02            | 0.122                  | 0.143                  |
|                                     | WLAN5GHz | 802.11a 6Mbps     | Back          | 10mm     | Ant 4+5(5) | 52  | 5260        | 18.60               | 19.00               | 1.096                  | 98.1         | 1.019                     | -0.02            | 0.394                  | 0.440                  |
| Simultaneous Transmission is active |          |                   |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band     | Mode              | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4      | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | 0.01             | 0.062                  | 0.076                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4      | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | -0.05            | 0.173                  | 0.212                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 5      | 62  | 5310        | 14.80               | 15.00               | 1.047                  | 96.45        | 1.037                     | 0.1              | 0.054                  | 0.059                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 5      | 62  | 5310        | 14.80               | 15.00               | 1.047                  | 96.45        | 1.037                     | -0.08            | 0.267                  | 0.290                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(4) | 54  | 5310        | 16.90               | 17.00               | 1.023                  | 95.45        | 1.048                     | 0.01             | 0.123                  | 0.132                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 10mm     | Ant 4+5(5) | 54  | 5310        | 15.58               | 16.00               | 1.102                  | 95.45        | 1.048                     | 0.01             | 0.112                  | 0.129                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(4) | 54  | 5310        | 16.90               | 17.00               | 1.023                  | 95.45        | 1.048                     | -0.03            | 0.315                  | 0.338                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 10mm     | Ant 4+5(5) | 54  | 5310        | 15.58               | 16.00               | 1.102                  | 95.45        | 1.048                     | -0.03            | 0.306                  | 0.353                  |

| Standalone                          |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|---------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4      | 138 | 5690        | 20.1                | 21                  | 1.230                  | 92.4         | 1.082                     | 0.14             | 0.314                  | 0.418                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4      | 138 | 5690        | 20.1                | 21                  | 1.230                  | 92.4         | 1.082                     | -0.02            | 0.201                  | 0.268                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 5      | 138 | 5690        | 19.5                | 19.5                | 1.000                  | 92.8         | 1.078                     | 0.03             | 0.031                  | 0.033                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 5      | 138 | 5690        | 19.5                | 19.5                | 1.000                  | 92.8         | 1.078                     | -0.08            | 0.732                  | 0.789                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(4) | 122 | 5610        | 20.6                | 21                  | 1.096                  | 92.4         | 1.082                     | 0.19             | 0.077                  | 0.091                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(5) | 122 | 5610        | 20.6                | 21                  | 1.096                  | 92.4         | 1.082                     | 0.19             | 0.103                  | 0.122                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 122 | 5610        | 20.6                | 21                  | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.286                  | 0.339                  |
| 55                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 122 | 5610        | 20.6                | 21                  | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.852                  | 1.011                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 138 | 5690        | 20.2                | 21                  | 1.202                  | 92.4         | 1.082                     | 0.09             | 0.242                  | 0.315                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 138 | 5690        | 20.7                | 21                  | 1.072                  | 92.4         | 1.082                     | 0.09             | 0.814                  | 0.944                  |
| Simultaneous Transmission is active |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4      | 138 | 5690        | 20.4                | 21                  | 1.148                  | 92.4         | 1.082                     | 0.05             | 0.268                  | 0.333                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4      | 138 | 5690        | 20.4                | 21                  | 1.148                  | 92.4         | 1.082                     | -0.05            | 0.168                  | 0.209                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 5      | 122 | 5610        | 14.7                | 15                  | 1.072                  | 92.8         | 1.078                     | 0.1              | 0.011                  | 0.013                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 5      | 122 | 5610        | 14.7                | 15                  | 1.072                  | 92.8         | 1.078                     | -0.06            | 0.194                  | 0.224                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(4) | 138 | 5690        | 20.91               | 21                  | 1.021                  | 92.4         | 1.082                     | 0.05             | 0.106                  | 0.117                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(5) | 138 | 5690        | 15.82               | 16.5                | 1.169                  | 92.4         | 1.082                     | 0.05             | 0.102                  | 0.129                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 138 | 5690        | 20.91               | 21                  | 1.021                  | 92.4         | 1.082                     | -0.1             | 0.355                  | 0.392                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 138 | 5690        | 15.82               | 16.5                | 1.169                  | 92.4         | 1.082                     | -0.1             | 0.255                  | 0.323                  |

| Standalone                          |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|----------|---------------------|---------------|----------|------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4      | 155 | 5775        | 20.4                | 21                  | 1.148                  | 92.4         | 1.082                     | 0.11             | 0.363                  | 0.451                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4      | 155 | 5775        | 20.4                | 21                  | 1.148                  | 92.4         | 1.082                     | -0.03            | 0.241                  | 0.299                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 5      | 155 | 5775        | 19.1                | 19.5                | 1.096                  | 92.8         | 1.078                     | 0.09             | 0.029                  | 0.034                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 5      | 155 | 5775        | 19.1                | 19.5                | 1.096                  | 92.8         | 1.078                     | -0.04            | 0.671                  | 0.793                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(4) | 155 | 5775        | 20.3                | 21                  | 1.175                  | 92.4         | 1.082                     | 0.03             | 0.104                  | 0.132                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(5) | 155 | 5775        | 19.7                | 20                  | 1.072                  | 92.4         | 1.082                     | 0.04             | 0.131                  | 0.152                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 155 | 5775        | 20.3                | 21                  | 1.175                  | 92.4         | 1.082                     | -0.08            | 0.290                  | 0.369                  |
| 56                                  | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 155 | 5775        | 19.7                | 20                  | 1.072                  | 92.4         | 1.082                     | -0.08            | 1.020                  | 1.183                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0   | Back          | 10mm     | Ant 4+5(4) | 151 | 5755        | 20.5                | 21                  | 1.122                  | 95.45        | 1.048                     | 0.17             | 0.250                  | 0.294                  |
|                                     | WLAN5GHz | 802.11n-HT40 MCS0   | Back          | 10mm     | Ant 4+5(5) | 151 | 5755        | 19.6                | 20                  | 1.096                  | 95.45        | 1.048                     | 0.17             | 0.954                  | 1.096                  |
| Simultaneous Transmission is active |          |                     |               |          |            |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band     | Mode                | Test Position | Gap (mm) | Antenna    | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4      | 155 | 5775        | 20                  | 20.5                | 1.122                  | 92.4         | 1.082                     | 0.11             | 0.265                  | 0.322                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4      | 155 | 5775        | 20                  | 20.5                | 1.122                  | 92.4         | 1.082                     | 0.06             | 0.201                  | 0.244                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 5      | 155 | 5775        | 16.1                | 16.5                | 1.096                  | 92.8         | 1.078                     | 0.03             | 0.031                  | 0.037                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 5      | 155 | 5775        | 16.1                | 16.5                | 1.096                  | 92.8         | 1.078                     | 0.08             | 0.233                  | 0.275                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(4) | 155 | 5775        | 19.42               | 20.5                | 1.282                  | 92.4         | 1.082                     | 0.06             | 0.071                  | 0.099                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 4+5(5) | 155 | 5775        | 16.8                | 17                  | 1.047                  | 92.4         | 1.082                     | 0.06             | 0.109                  | 0.123                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 155 | 5775        | 19.42               | 20.5                | 1.282                  | 92.4         | 1.082                     | -0.13            | 0.271                  | 0.376                  |
|                                     | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 155 | 5775        | 16.8                | 17                  | 1.047                  | 92.4         | 1.082                     | -0.13            | 0.337                  | 0.382                  |

### <Bluetooth SAR>

| Standalone                          |           |       |               |          |         |     |             |                     |                     |                        |              |                           |                  |                        |                        |
|-------------------------------------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| Plot No.                            | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | Bluetooth | 1Mbps | Front         | 10mm     | Ant 2   | 78  | 2480        | 18.55               | 19.5                | 1.244                  | 77.13        | 1.297                     | 0.09             | 0.141                  | 0.227                  |
| 57                                  | Bluetooth | 1Mbps | Back          | 10mm     | Ant 2   | 78  | 2480        | 18.55               | 19.5                | 1.244                  | 77.13        | 1.297                     | 0.06             | 0.195                  | 0.315                  |
| Simultaneous Transmission is active |           |       |               |          |         |     |             |                     |                     |                        |              |                           |                  |                        |                        |
| Plot No.                            | Band      | Mode  | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|                                     | Bluetooth | 1Mbps | Front         | 10mm     | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | 0.01             | 0.122                  | 0.162                  |
|                                     | Bluetooth | 1Mbps | Back          | 10mm     | Ant 2   | 39  | 2441        | 17.90               | 18.00               | 1.023                  | 77.13        | 1.297                     | -0.07            | 0.128                  | 0.170                  |

## 15.4 Product Specific SAR

### <FDD LTE SAR>

| Standalone |                  |          |            |         |           |               |          |       |             |                     |                     |                        |                  |                         |                         |
|------------|------------------|----------|------------|---------|-----------|---------------|----------|-------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| Plot No.   | Band             | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
| 58         | LTE Band 7_Ant 1 | 20M      | QPSK       | 1       | 99        | Top Side      | 0mm      | 21350 | 2560        | 21.39               | 23.00               | 1.449                  | -0.02            | 2.290                   | 3.318                   |
|            | LTE Band 7_Ant 1 | 20M      | QPSK       | 1       | 99        | Top Side      | 0mm      | 20850 | 2510        | 21.29               | 23.00               | 1.483                  | 0.07             | 2.220                   | 3.291                   |
|            | LTE Band 7_Ant 1 | 20M      | QPSK       | 1       | 99        | Top Side      | 0mm      | 21100 | 2535        | 21.31               | 23.00               | 1.476                  | -0.11            | 2.150                   | 3.173                   |

### <TDD LTE SAR>

| Standalone |          |                    |          |            |         |           |               |          |         |       |             |                     |                     |                        |              |                           |                  |                         |                         |
|------------|----------|--------------------|----------|------------|---------|-----------|---------------|----------|---------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| Note       | Plot No. | Band               | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Antenna | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|            | 59       | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | 0.14             | 3.290                   | 3.563                   |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 40185 | 2549.5      | 24.52               | 25.00               | 1.117                  | 62.9         | 1.006                     | -0.17            | 3.220                   | 3.487                   |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 40620 | 2593        | 24.52               | 25.00               | 1.117                  | 62.9         | 1.006                     | 0.02             | 3.160                   | 3.550                   |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 41055 | 2636.5      | 24.42               | 25.00               | 1.143                  | 62.9         | 1.006                     | -0.13            | 3.150                   | 3.539                   |
|            |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 41490 | 2680        | 24.47               | 25.00               | 1.130                  | 62.9         | 1.006                     | 0.15             | 3.090                   | 3.553                   |
|            |          | LTE Band 41C_Ant 1 | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 39750 | 2506        | 26.13               | 27.00               | 1.222                  | 62.9         | 1.006                     | 0.05             | 3.130                   | 3.557                   |
| HPUE       |          | LTE Band 41_Ant 1  | 20M      | QPSK       | 1       | 0         | Top Side      | 0mm      | Ant 1   | 39750 | 2506        | 23.96               | 25.00               | 1.271                  | 62.9         | 1.006                     | 0.09             | 2.764                   | 3.534                   |

### <WLAN SAR>

| Standalone |            |               |               |          |        |     |             |                     |                     |                        |              |                           |                  |                         |                         |
|------------|------------|---------------|---------------|----------|--------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| Plot No.   | Band       | Mode          | Test Position | Gap (mm) | Sample | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
| 60         | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 0mm      | Ant 2  | 1   | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | -0.06            | 3.090                   | 3.495                   |
|            | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 0mm      | Ant 2  | 6   | 2437        | 19.40               | 20.50               | 1.288                  | 99.2         | 1.008                     | 0.1              | 1.421                   | 1.845                   |
|            | WLAN2.4GHz | 802.11b 1Mbps | Left Side     | 0mm      | Ant 2  | 11  | 2462        | 19.70               | 20.50               | 1.202                  | 99.2         | 1.008                     | 0.11             | 1.380                   | 1.672                   |

**General Note:**

1. Add antenna 5 power level of 21dBm is consider MIMO operation in SISO chain, If the sum of 10g single transmission chain SAR measurements is < 4.0W/kg and SAR peak to location ratio  $\leq 0.1$ , in this device that the MIMO operation only required for 5.5GHz WLAN, due to sum of 10g single transmission chain SAR measurement is > 4.0W/kg, therefore, additional worst configuration MIMO operation for 5.5GHz WLAN to show compliance.

| Standalone |          |                   |               |          |        |     |             |                     |                     |                        |              |                           |                  |                         |                         |
|------------|----------|-------------------|---------------|----------|--------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| Plot No.   | Band     | Mode              | Test Position | Gap (mm) | Sample | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | Ant 4  | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | 0.02             | 0.354                   | 0.433                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | Ant 4  | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | 0.03             | 0.736                   | 0.901                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | Ant 4  | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | -0.03            | 0.032                   | 0.039                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | Ant 4  | 54  | 5270        | 20.30               | 21.00               | 1.175                  | 95.94        | 1.042                     | 0.11             | 0.555                   | 0.679                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | Ant 5  | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | 0.03             | 0.311                   | 0.330                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | Ant 5  | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | 0.12             | 1.840                   | 1.953                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Left Side     | 0mm      | Ant 5  | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | 0.19             | 0.598                   | 0.635                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | Ant 5  | 54  | 5270        | 19.40               | 19.50               | 1.023                  | 96.45        | 1.037                     | -0.05            | 0.302                   | 0.320                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Front         | 0mm      | Ant 5  | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 96.45        | 1.037                     | 0.01             | 0.384                   | 0.447                   |
| 61         | WLAN5GHz | 802.11n-HT40 MCS0 | Back          | 0mm      | Ant 5  | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 96.45        | 1.037                     | -0.08            | 1.950                   | 2.269                   |
|            | WLAN5GHz | 802.11a 6Mbps     | Back          | 0mm      | Ant 5  | 52  | 5260        | 18.40               | 19.00               | 1.148                  | 98.1         | 1.019                     | -0.02            | 1.210                   | 1.416                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Left Side     | 0mm      | Ant 5  | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 96.45        | 1.037                     | 0.14             | 0.753                   | 0.876                   |
|            | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side      | 0mm      | Ant 5  | 54  | 5270        | 20.50               | 21.00               | 1.122                  | 96.45        | 1.037                     | 0.16             | 0.376                   | 0.437                   |

| Standalone |          |                     |               |          |        |     |             |                     |                     |                        |              |                           |                  |                         |                         |
|------------|----------|---------------------|---------------|----------|--------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| Plot No.   | Band     | Mode                | Test Position | Gap (mm) | Sample | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 4  | 138 | 5690        | 20.10               | 21.00               | 1.230                  | 92.4         | 1.082                     | 0.01             | 1.280                   | 1.704                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 4  | 138 | 5690        | 20.10               | 21.00               | 1.230                  | 92.4         | 1.082                     | -0.05            | 0.960                   | 1.278                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 4  | 138 | 5690        | 20.10               | 21.00               | 1.230                  | 92.4         | 1.082                     | -0.14            | 0.073                   | 0.097                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 4  | 138 | 5690        | 20.10               | 21.00               | 1.230                  | 92.4         | 1.082                     | -0.19            | 0.663                   | 0.883                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 5  | 138 | 5690        | 19.50               | 19.50               | 1.000                  | 92.8         | 1.078                     | 0.01             | 0.214                   | 0.231                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5  | 138 | 5690        | 19.50               | 19.50               | 1.000                  | 92.8         | 1.078                     | 0.06             | 1.830                   | 1.973                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 0mm      | Ant 5  | 138 | 5690        | 19.50               | 19.50               | 1.000                  | 92.8         | 1.078                     | -0.08            | 0.238                   | 0.257                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 5  | 138 | 5690        | 19.50               | 19.50               | 1.000                  | 92.8         | 1.078                     | 0.11             | 0.266                   | 0.287                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 5  | 138 | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | -0.06            | 0.334                   | 0.395                   |
| 62         | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5  | 138 | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | 0.03             | 2.210                   | 2.612                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5  | 122 | 5610        | 20.50               | 21.00               | 1.122                  | 92.8         | 1.078                     | 0.11             | 2.130                   | 2.576                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5  | 106 | 5530        | 16.50               | 17.00               | 1.122                  | 92.8         | 1.078                     | -0.07            | 0.843                   | 1.020                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side     | 0mm      | Ant 5  | 138 | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | 0.16             | 0.333                   | 0.394                   |
|            | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 5  | 138 | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | -0.02            | 0.344                   | 0.407                   |

**15.5 Repeated SAR Measurement**

| No. | Band              | Mode                | Test Position | Gap (mm) | Antenna    | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|-------------------|---------------------|---------------|----------|------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st | LTE Band 25_Ant 1 | 20M_QPSK_50_0       | Right Cheek   | 0mm      | -          | 26340 | 1880        | 16.21               | 17.00               | 1.199                  | -            | 1.000                     | 0.05             | 0.992                  | -     | 1.190                  |
| 2nd | LTE Band 25_Ant 1 | 20M_QPSK_50_0       | Right Cheek   | 0mm      | -          | 26340 | 1880        | 16.21               | 17.00               | 1.199                  | -            | 1.000                     | 0.02             | 0.953                  | 1.04  | 1.143                  |
| 1st | WCDMA V_Ant 1     | RMC 12.2Kbps        | Right Cheek   | 0mm      | -          | 4182  | 836.4       | 21.46               | 22.50               | 1.271                  | -            | 1.000                     | 0.06             | 0.842                  | -     | 1.070                  |
| 2nd | WCDMA V_Ant 1     | RMC 12.2Kbps        | Right Cheek   | 0mm      | -          | 4182  | 836.4       | 21.46               | 22.50               | 1.271                  | -            | 1.000                     | -0.14            | 0.833                  | 1.01  | 1.058                  |
| 1st | LTE Band 13_Ant 1 | 10M_QPSK_1_0        | Right Cheek   | 0mm      | -          | 23230 | 782         | 23.44               | 24.00               | 1.138                  | -            | 1.000                     | 0.14             | 0.937                  | -     | 1.066                  |
| 2nd | LTE Band 13_Ant 1 | 10M_QPSK_1_0        | Right Cheek   | 0mm      | -          | 23230 | 782         | 23.44               | 24.00               | 1.138                  | -            | 1.000                     | 0.17             | 0.928                  | 1.01  | 1.056                  |
| 1st | WCDMA IV_Ant 1    | RMC 12.2Kbps        | Top Side      | 10mm     | -          | 1413  | 1732.6      | 22.50               | 22.50               | 1.000                  | -            | 1.000                     | 0.14             | 0.985                  | -     | 0.985                  |
| 2nd | WCDMA IV_Ant 1    | RMC 12.2Kbps        | Top Side      | 10mm     | -          | 1413  | 1732.6      | 22.50               | 22.50               | 1.000                  | -            | 1.000                     | 0.1              | 0.977                  | 1.01  | 0.977                  |
| 1st | LTE Band 41_Ant 1 | 20M_QPSK_1_0        | Top Side      | 10mm     | -          | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | 0                | 0.969                  | -     | 0.975                  |
| 2nd | LTE Band 41_Ant 1 | 20M_QPSK_1_0        | Top Side      | 10mm     | -          | 39750 | 2506        | 23.50               | 23.50               | 1.000                  | 62.9         | 1.006                     | -0.03            | 0.951                  | 1.02  | 0.957                  |
| 1st | WLAN2.4GHz        | 802.11b 1Mbps       | Back          | 10mm     | -          | 1     | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | -0.06            | 0.902                  | -     | 1.020                  |
| 2nd | WLAN2.4GHz        | 802.11b 1Mbps       | Back          | 10mm     | -          | 1     | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | 0.06             | 0.881                  | 1.02  | 0.996                  |
| 1st | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 122   | 5610        | 20.60               | 21.00               | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.286                  | -     | 0.339                  |
|     | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 122   | 5610        | 20.60               | 21.00               | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.852                  |       | 1.011                  |
| 2nd | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 122   | 5610        | 20.60               | 21.00               | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.273                  | 1.03  | 0.324                  |
|     | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 122   | 5610        | 20.60               | 21.00               | 1.096                  | 92.4         | 1.082                     | -0.16            | 0.831                  |       | 0.986                  |
| 1st | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 155   | 5775        | 20.30               | 21.00               | 1.175                  | 92.4         | 1.082                     | -0.08            | 0.290                  | -     | 0.369                  |
|     | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 155   | 5775        | 19.70               | 20.00               | 1.072                  | 92.4         | 1.082                     | -0.08            | 1.020                  |       | 1.183                  |
| 2nd | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(4) | 155   | 5775        | 20.30               | 21.00               | 1.175                  | 92.4         | 1.082                     | -0.08            | 0.284                  | 1.04  | 0.361                  |
|     | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 4+5(5) | 155   | 5775        | 19.70               | 20.00               | 1.072                  | 92.4         | 1.082                     | -0.08            | 0.981                  |       | 1.137                  |

| No. | Band              | Mode                | Test Position | Gap (mm) | Antenna | Ch.   | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|-------------------|---------------------|---------------|----------|---------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | LTE Band 41_Ant 1 | 20M_QPSK_1_0        | Top Side      | 0mm      | -       | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | 0.14             | 3.290                   | -     | 3.563                   |
| 2nd | LTE Band 41_Ant 1 | 20M_QPSK_1_0        | Top Side      | 0mm      | -       | 39750 | 2506        | 24.68               | 25.00               | 1.076                  | 62.9         | 1.006                     | -0.17            | 3.220                   | 1.02  | 3.487                   |
| 1st | WLAN2.4GHz        | 802.11b 1Mbps       | Left Side     | 0mm      | Ant 2   | 1     | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | -0.06            | 3.090                   | -     | 3.495                   |
| 2nd | WLAN2.4GHz        | 802.11b 1Mbps       | Left Side     | 0mm      | Ant 2   | 1     | 2412        | 22.50               | 23.00               | 1.122                  | 99.2         | 1.008                     | 0.01             | 3.020                   | 1.02  | 3.416                   |
| 1st | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5   | 138   | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | 0.03             | 2.210                   | -     | 2.612                   |
| 2nd | WLAN5GHz          | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 5   | 138   | 5690        | 20.60               | 21.00               | 1.096                  | 92.8         | 1.078                     | 0.11             | 2.180                   | 1.01  | 2.695                   |

**General Note:**

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45$ W/kg, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

### **15.6 LTE Band 41 Power Class 2 and Power Class 3 Linearity**

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg, Separate SAR testing for Power Class 2 is not required

**<LTE Band 41 Linearity Data for Head>**

| Standalone                          | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 19.5            | 21.5            |
| Reported 1g SAR (W/kg)              | 1.174           | 1.159           |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 56.42           | 61.16           |
| Linearity SAR(W/kg)                 | 1.27            |                 |
| % deviation from expected linearity |                 | -8.94%          |

**<LTE Band 41 Linearity Data for Hotspot and Body-worn>**

| Standalone                          | LTE Band 41     | LTE Band 41     |
|-------------------------------------|-----------------|-----------------|
|                                     | (Power Class 3) | (Power Class 2) |
| Maximum Tune up Power (dBm)         | 25              | 27              |
| Reported 1g SAR (W/kg)              | 0.969           | 0.959           |
| Duty Cycle                          | 63.30%          | 43.30%          |
| Frame Averaged (mW)                 | 200.17          | 217.01          |
| Linearity SAR(W/kg)                 | 1.05            |                 |
| % deviation from expected linearity |                 | -8.71%          |

## 16. Simultaneous Transmission Analysis

| RF Exposure conditions | Item | Capable Transmit Configuration |                                             |
|------------------------|------|--------------------------------|---------------------------------------------|
|                        |      | SAR                            |                                             |
| Head <sup>(1)</sup>    | 1    | WWAN off<br>(Cellular off)     | WiFi 5G SISO (Ant5) + Bluetooth (Ant2)      |
|                        | 2    |                                | WiFi 5G SISO (Ant4) + Bluetooth (Ant2)      |
|                        | 3    |                                | WiFi 5G MIMO (Ant5+Ant4) + Bluetooth (Ant2) |
|                        | 4    |                                | WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5) |
|                        | 5    | WWAN ON<br>(Cellular on)       | WiFi 5G SISO (Ant5) + Bluetooth (Ant2)      |
|                        | 6    |                                | WiFi 5G SISO (Ant4) + Bluetooth (Ant2)      |
|                        | 7    |                                | WiFi 5G MIMO (Ant5+4) + Bluetooth (Ant2)    |
|                        | 8    |                                | WiFi 5G SISO (Ant5)                         |
|                        | 9    |                                | WiFi 5G SISO (Ant4)                         |
|                        | 10   |                                | WiFi 5G MIMO (Ant5+4)                       |
|                        | 11   |                                | WiFi 2.4G SISO (Ant2)                       |
|                        | 12   |                                | WiFi 2.4G SISO (Ant4)                       |
|                        | 13   |                                | WiFi 2.4G MIMO/CDD (Ant2+4)                 |
|                        | 14   |                                | Bluetooth (Ant2)                            |
|                        | 15   |                                | WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5) |

| RF Exposure conditions                                                      | Item | Capable Transmit Configuration              |                                             |                    |
|-----------------------------------------------------------------------------|------|---------------------------------------------|---------------------------------------------|--------------------|
|                                                                             |      | SAR/MPE                                     |                                             | PD                 |
| Body Worn/Hotspot/<br>Product Specific/<br>Mobile Conditions <sup>(1)</sup> | 16   | WWAN OFF<br>(Cellular off)                  | WiFi 5G SISO (Ant5) + Bluetooth (Ant2)      | 60 GHz Transmitter |
|                                                                             | 17   |                                             | WiFi 5G SISO (Ant4) + Bluetooth (Ant2)      |                    |
|                                                                             | 18   |                                             | WiFi 5G MIMO (Ant5+4) + Bluetooth (Ant2)    |                    |
|                                                                             | 19   |                                             | WiFi 5G SISO (Ant5)                         |                    |
|                                                                             | 20   |                                             | WiFi 5G SISO (Ant4)                         |                    |
|                                                                             | 21   |                                             | WiFi 5G MIMO (Ant5+4)                       |                    |
|                                                                             | 22   |                                             | WiFi 2.4G SISO (Ant2)                       |                    |
|                                                                             | 23   |                                             | WiFi 2.4G SISO (Ant4)                       |                    |
|                                                                             | 24   |                                             | WiFi 2.4G MIMO/CDD (Ant2+4)                 |                    |
|                                                                             | 25   |                                             | Bluetooth (Ant2)                            |                    |
|                                                                             | 26   | WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5) |                                             |                    |
|                                                                             | 27   | WWAN ON<br>(Cellular on)                    | WiFi 5G SISO (Ant5) + Bluetooth (Ant2)      |                    |
|                                                                             | 28   |                                             | WiFi 5G SISO (Ant4) + Bluetooth (Ant2)      |                    |
|                                                                             | 29   |                                             | WiFi 5G MIMO (Ant5+4) + Bluetooth (Ant2)    |                    |
|                                                                             | 30   |                                             | WiFi 5G SISO (Ant5)                         |                    |
|                                                                             | 31   |                                             | WiFi 5G SISO (Ant4)                         |                    |
|                                                                             | 32   |                                             | WiFi 5G MIMO (Ant5+4)                       |                    |
|                                                                             | 33   |                                             | WiFi 2.4G SISO (Ant2)                       |                    |
|                                                                             | 34   |                                             | WiFi 2.4G SISO (Ant4)                       |                    |
|                                                                             | 35   |                                             | WiFi 2.4G MIMO/CDD (Ant2+4)                 |                    |
|                                                                             | 36   |                                             | Bluetooth (Ant2)                            |                    |
|                                                                             | 37   |                                             | WiFi 2.4G SISO (Ant2) + WiFi 5G SISO (Ant5) |                    |

### General Note:

- When WWAN single transmitting or WWAN off and WiFi/BT is transmitting which is consider as standalone mode, When WWAN and WLAN/BT transmission at the same time which is consider as simultaneous transmission mode, for mobile condition is considered more than 20cm usage for this device refer to sporton report No.: FA8N0620-06B.
- The PD simultaneous transmission analysis refers to PD evaluation report.
- This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
- The worst case WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with WLAN.
- The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - Scalar SAR summation < 1.6W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR, if  $SPLSR < 0.1$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.



## 16.1 Head Exposure Conditions

### <Standalone>

| Exposure Position | 2                    | 3                    | 4                  | 5                  | 6                          | 2+5 Summed<br>1g SAR (W/kg) | 2+3 Summed<br>1g SAR (W/kg) | 4+5+6 Summed<br>1g SAR (W/kg) |
|-------------------|----------------------|----------------------|--------------------|--------------------|----------------------------|-----------------------------|-----------------------------|-------------------------------|
|                   | 2.4GHz WLAN<br>Ant 2 | 2.4GHz WLAN<br>Ant 4 | 5GHz WLAN<br>Ant 4 | 5GHz WLAN<br>Ant 5 | Bluetooth<br>Ant 2         |                             |                             |                               |
|                   | 1g SAR<br>(W/kg)     | 1g SAR<br>(W/kg)     | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg)   | Estimated<br>1g SAR (W/kg) |                             |                             |                               |
| Right Cheek       | 0.204                | 0.321                | 0.414              | 0.289              | 0.135                      | <b>0.493</b>                | <b>0.525</b>                | <b>0.838</b>                  |
| Right Tilted      | 0.037                | 0.326                | 0.405              | 0.269              | 0.088                      | <b>0.306</b>                | <b>0.363</b>                | <b>0.762</b>                  |
| Left Cheek        | 0.084                | 0.462                | 0.195              | 0.111              | 0.123                      | <b>0.195</b>                | <b>0.546</b>                | <b>0.429</b>                  |
| Left Tilted       | 0.020                | 0.504                | 0.198              | 0.082              | 0.108                      | <b>0.102</b>                | <b>0.524</b>                | <b>0.388</b>                  |

### <Simultaneous Transmission is active

### <WWAN 0B antenna>

| WWAN Band |                    | Exposure Position | 1                | 2                    | 3                    | 4                  | 5                  | 6                  | 7                      | 8                    | 1+3 Summed<br>1g SAR<br>(W/kg) | 1+7 Summed<br>1g SAR<br>(W/kg) | 1+4+6 Summed<br>1g SAR<br>(W/kg) | 1+5+6 Summed<br>1g SAR<br>(W/kg) | 1+6+8 Summed<br>1g SAR<br>(W/kg) | 1+2+5 Summed<br>1g SAR<br>(W/kg) |
|-----------|--------------------|-------------------|------------------|----------------------|----------------------|--------------------|--------------------|--------------------|------------------------|----------------------|--------------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|           |                    |                   | WWAN             | 2.4GHz WLAN<br>Ant 2 | 2.4GHz WLAN<br>Ant 4 | 5GHz WLAN<br>Ant 4 | 5GHz WLAN<br>Ant 5 | Bluetooth<br>Ant 2 | 2.4GHz WLAN<br>Ant 2+4 | 5GHz WLAN<br>Ant 4+5 |                                |                                |                                  |                                  |                                  |                                  |
|           |                    |                   | 1g SAR<br>(W/kg) | 1g SAR<br>(W/kg)     | 1g SAR<br>(W/kg)     | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg)   | 1g SAR<br>(W/kg)       | 1g SAR<br>(W/kg)     |                                |                                |                                  |                                  |                                  |                                  |
| GSM       | GSM1900_Ant 0B     | Right Cheek       | 0.166            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.487</b>                   | <b>0.715</b>                   | <b>0.687</b>                     | <b>0.562</b>                     | <b>0.772</b>                     | <b>0.659</b>                     |
|           |                    | Right Tilted      | 0.052            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.378</b>                   | <b>0.482</b>                   | <b>0.527</b>                     | <b>0.391</b>                     | <b>0.596</b>                     | <b>0.358</b>                     |
|           |                    | Left Cheek        | 0.083            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.545</b>                   | <b>0.627</b>                   | <b>0.375</b>                     | <b>0.291</b>                     | <b>0.571</b>                     | <b>0.278</b>                     |
|           |                    | Left Tilted       | 0.053            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.557</b>                   | <b>0.598</b>                   | <b>0.337</b>                     | <b>0.221</b>                     | <b>0.544</b>                     | <b>0.155</b>                     |
| WCDMA     | WCDMA II_Ant 0B    | Right Cheek       | 0.317            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.638</b>                   | <b>0.866</b>                   | <b>0.838</b>                     | <b>0.713</b>                     | <b>0.923</b>                     | <b>0.810</b>                     |
|           |                    | Right Tilted      | 0.058            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.384</b>                   | <b>0.488</b>                   | <b>0.533</b>                     | <b>0.397</b>                     | <b>0.602</b>                     | <b>0.364</b>                     |
|           |                    | Left Cheek        | 0.102            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.564</b>                   | <b>0.646</b>                   | <b>0.394</b>                     | <b>0.310</b>                     | <b>0.590</b>                     | <b>0.297</b>                     |
|           |                    | Left Tilted       | 0.050            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.554</b>                   | <b>0.595</b>                   | <b>0.334</b>                     | <b>0.218</b>                     | <b>0.541</b>                     | <b>0.152</b>                     |
|           | WCDMA IV_Ant 0B    | Right Cheek       | 0.254            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.575</b>                   | <b>0.803</b>                   | <b>0.775</b>                     | <b>0.650</b>                     | <b>0.860</b>                     | <b>0.747</b>                     |
|           |                    | Right Tilted      | 0.066            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.392</b>                   | <b>0.496</b>                   | <b>0.541</b>                     | <b>0.405</b>                     | <b>0.610</b>                     | <b>0.372</b>                     |
|           |                    | Left Cheek        | 0.137            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.599</b>                   | <b>0.681</b>                   | <b>0.429</b>                     | <b>0.345</b>                     | <b>0.625</b>                     | <b>0.332</b>                     |
|           |                    | Left Tilted       | 0.064            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.568</b>                   | <b>0.609</b>                   | <b>0.348</b>                     | <b>0.232</b>                     | <b>0.555</b>                     | <b>0.166</b>                     |
| LTE       | LTE Band 7_Ant 0B  | Right Cheek       | 0.845            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>1.166</b>                   | <b>1.394</b>                   | <b>1.366</b>                     | <b>1.241</b>                     | <b>1.451</b>                     | <b>1.338</b>                     |
|           |                    | Right Tilted      | 0.227            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.553</b>                   | <b>0.657</b>                   | <b>0.702</b>                     | <b>0.566</b>                     | <b>0.771</b>                     | <b>0.533</b>                     |
|           |                    | Left Cheek        | 0.540            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>1.002</b>                   | <b>1.084</b>                   | <b>0.832</b>                     | <b>0.748</b>                     | <b>1.028</b>                     | <b>0.735</b>                     |
|           |                    | Left Tilted       | 0.336            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.840</b>                   | <b>0.881</b>                   | <b>0.620</b>                     | <b>0.504</b>                     | <b>0.827</b>                     | <b>0.438</b>                     |
|           | LTE Band 25_Ant 0B | Right Cheek       | 0.284            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.605</b>                   | <b>0.833</b>                   | <b>0.805</b>                     | <b>0.680</b>                     | <b>0.890</b>                     | <b>0.777</b>                     |
|           |                    | Right Tilted      | 0.060            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.386</b>                   | <b>0.490</b>                   | <b>0.535</b>                     | <b>0.399</b>                     | <b>0.604</b>                     | <b>0.366</b>                     |
|           |                    | Left Cheek        | 0.098            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.560</b>                   | <b>0.642</b>                   | <b>0.390</b>                     | <b>0.306</b>                     | <b>0.586</b>                     | <b>0.293</b>                     |
|           |                    | Left Tilted       | 0.042            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.546</b>                   | <b>0.587</b>                   | <b>0.326</b>                     | <b>0.210</b>                     | <b>0.533</b>                     | <b>0.144</b>                     |
|           | LTE Band 41_Ant 0B | Right Cheek       | 0.491            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.812</b>                   | <b>1.040</b>                   | <b>1.012</b>                     | <b>0.887</b>                     | <b>1.097</b>                     | <b>0.984</b>                     |
|           |                    | Right Tilted      | 0.160            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.486</b>                   | <b>0.590</b>                   | <b>0.635</b>                     | <b>0.499</b>                     | <b>0.704</b>                     | <b>0.466</b>                     |
|           |                    | Left Cheek        | 0.227            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.689</b>                   | <b>0.771</b>                   | <b>0.519</b>                     | <b>0.435</b>                     | <b>0.715</b>                     | <b>0.422</b>                     |
|           |                    | Left Tilted       | 0.167            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.671</b>                   | <b>0.712</b>                   | <b>0.451</b>                     | <b>0.335</b>                     | <b>0.658</b>                     | <b>0.269</b>                     |
|           | LTE Band 66_Ant 0B | Right Cheek       | 0.232            | 0.204                | 0.321                | 0.414              | 0.289              | 0.107              | 0.549                  | 0.499                | <b>0.553</b>                   | <b>0.781</b>                   | <b>0.753</b>                     | <b>0.628</b>                     | <b>0.838</b>                     | <b>0.725</b>                     |
|           |                    | Right Tilted      | 0.064            | 0.037                | 0.326                | 0.405              | 0.269              | 0.070              | 0.430                  | 0.474                | <b>0.390</b>                   | <b>0.494</b>                   | <b>0.539</b>                     | <b>0.403</b>                     | <b>0.608</b>                     | <b>0.370</b>                     |
|           |                    | Left Cheek        | 0.145            | 0.084                | 0.462                | 0.195              | 0.111              | 0.097              | 0.544                  | 0.391                | <b>0.607</b>                   | <b>0.689</b>                   | <b>0.437</b>                     | <b>0.353</b>                     | <b>0.633</b>                     | <b>0.340</b>                     |
|           |                    | Left Tilted       | 0.058            | 0.020                | 0.504                | 0.198              | 0.082              | 0.086              | 0.545                  | 0.405                | <b>0.562</b>                   | <b>0.603</b>                   | <b>0.342</b>                     | <b>0.226</b>                     | <b>0.549</b>                     | <b>0.160</b>                     |

**FCC SAR TEST REPORT**

Report No. : FA8N0620-06A

## &lt;WWAN 0C antenna&gt;

| WWAN Band |                    | Exposure Position | 1             | 2                 | 3                 | 4               | 5               | 6               | 7                   | 8                 | 1+3 Summed 1g SAR (W/kg) | 1+7 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+5+6 Summed 1g SAR (W/kg) | 1+6+8 Summed 1g SAR (W/kg) | 1+2+5 Summed 1g SAR (W/kg) |
|-----------|--------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------|-------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|           |                    |                   | WWAN          | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2 | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+5 |                          |                          |                            |                            |                            |                            |
|           |                    |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)       | 1g SAR (W/kg)     |                          |                          |                            |                            |                            |                            |
| GSM       | GSM850_Ant 0C      | Right Cheek       | 0.160         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.481                    | 0.709                    | 0.681                      | 0.556                      | 0.766                      | 0.653                      |
|           |                    | Right Tilted      | 0.109         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.435                    | 0.539                    | 0.584                      | 0.448                      | 0.653                      | 0.415                      |
|           |                    | Left Cheek        | 0.312         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.774                    | 0.856                    | 0.604                      | 0.520                      | 0.800                      | 0.507                      |
|           |                    | Left Tilted       | 0.249         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.753                    | 0.794                    | 0.533                      | 0.417                      | 0.740                      | 0.351                      |
| WCDMA     | WCDMA IV_Ant 0C    | Right Cheek       | 0.242         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.563                    | 0.791                    | 0.763                      | 0.638                      | 0.848                      | 0.735                      |
|           |                    | Right Tilted      | 0.229         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.555                    | 0.659                    | 0.704                      | 0.568                      | 0.773                      | 0.535                      |
|           |                    | Left Cheek        | 0.461         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.923                    | 1.005                    | 0.753                      | 0.669                      | 0.949                      | 0.656                      |
|           |                    | Left Tilted       | 0.300         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.804                    | 0.845                    | 0.584                      | 0.468                      | 0.791                      | 0.402                      |
|           | WCDMA V_Ant 0C     | Right Cheek       | 0.212         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.533                    | 0.761                    | 0.733                      | 0.608                      | 0.818                      | 0.705                      |
|           |                    | Right Tilted      | 0.159         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.485                    | 0.589                    | 0.634                      | 0.498                      | 0.703                      | 0.465                      |
|           |                    | Left Cheek        | 0.465         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.927                    | 1.009                    | 0.757                      | 0.673                      | 0.953                      | 0.660                      |
|           |                    | Left Tilted       | 0.281         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.785                    | 0.826                    | 0.565                      | 0.449                      | 0.772                      | 0.383                      |
| LTE       | LTE Band 4_Ant 0C  | Right Cheek       | 0.198         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.519                    | 0.747                    | 0.719                      | 0.594                      | 0.804                      | 0.691                      |
|           |                    | Right Tilted      | 0.195         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.521                    | 0.625                    | 0.670                      | 0.534                      | 0.739                      | 0.501                      |
|           |                    | Left Cheek        | 0.442         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.904                    | 0.986                    | 0.734                      | 0.650                      | 0.930                      | 0.637                      |
|           |                    | Left Tilted       | 0.235         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.739                    | 0.780                    | 0.519                      | 0.403                      | 0.726                      | 0.337                      |
|           | LTE Band 7_Ant 0C  | Right Cheek       | 0.187         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.508                    | 0.736                    | 0.708                      | 0.583                      | 0.793                      | 0.680                      |
|           |                    | Right Tilted      | 0.101         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.427                    | 0.531                    | 0.576                      | 0.440                      | 0.645                      | 0.407                      |
|           |                    | Left Cheek        | 0.532         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.994                    | 1.076                    | 0.824                      | 0.740                      | 1.020                      | 0.727                      |
|           |                    | Left Tilted       | 0.141         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.645                    | 0.686                    | 0.425                      | 0.309                      | 0.632                      | 0.243                      |
|           | LTE Band 12_Ant 0C | Right Cheek       | 0.201         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.522                    | 0.750                    | 0.722                      | 0.597                      | 0.807                      | 0.694                      |
|           |                    | Right Tilted      | 0.161         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.487                    | 0.591                    | 0.636                      | 0.500                      | 0.705                      | 0.467                      |
|           |                    | Left Cheek        | 0.277         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.739                    | 0.821                    | 0.569                      | 0.485                      | 0.765                      | 0.472                      |
|           |                    | Left Tilted       | 0.184         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.688                    | 0.729                    | 0.468                      | 0.352                      | 0.675                      | 0.286                      |
|           | LTE Band 13_Ant 0C | Right Cheek       | 0.226         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.547                    | 0.775                    | 0.747                      | 0.622                      | 0.832                      | 0.719                      |
|           |                    | Right Tilted      | 0.187         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.513                    | 0.617                    | 0.662                      | 0.526                      | 0.731                      | 0.493                      |
|           |                    | Left Cheek        | 0.336         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.798                    | 0.880                    | 0.628                      | 0.544                      | 0.824                      | 0.531                      |
|           |                    | Left Tilted       | 0.254         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.758                    | 0.799                    | 0.538                      | 0.422                      | 0.745                      | 0.356                      |
|           | LTE Band 26_Ant 0C | Right Cheek       | 0.221         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.542                    | 0.770                    | 0.742                      | 0.617                      | 0.827                      | 0.714                      |
|           |                    | Right Tilted      | 0.160         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.486                    | 0.590                    | 0.635                      | 0.499                      | 0.704                      | 0.466                      |
|           |                    | Left Cheek        | 0.408         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.870                    | 0.952                    | 0.700                      | 0.616                      | 0.896                      | 0.603                      |
|           |                    | Left Tilted       | 0.270         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.774                    | 0.815                    | 0.554                      | 0.438                      | 0.761                      | 0.372                      |
|           | LTE Band 38_Ant 0C | Right Cheek       | 0.210         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.531                    | 0.759                    | 0.731                      | 0.606                      | 0.816                      | 0.703                      |
|           |                    | Right Tilted      | 0.130         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.456                    | 0.560                    | 0.605                      | 0.469                      | 0.674                      | 0.436                      |
|           |                    | Left Cheek        | 0.320         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.782                    | 0.864                    | 0.612                      | 0.528                      | 0.808                      | 0.515                      |
|           |                    | Left Tilted       | 0.102         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.606                    | 0.647                    | 0.386                      | 0.270                      | 0.593                      | 0.204                      |
|           | LTE Band 41_Ant 0C | Right Cheek       | 0.001         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.322                    | 0.550                    | 0.522                      | 0.397                      | 0.607                      | 0.494                      |
|           |                    | Right Tilted      | 0.071         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.397                    | 0.501                    | 0.546                      | 0.410                      | 0.615                      | 0.377                      |
|           |                    | Left Cheek        | 0.263         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.725                    | 0.807                    | 0.555                      | 0.471                      | 0.751                      | 0.458                      |
|           |                    | Left Tilted       | 0.077         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.581                    | 0.622                    | 0.361                      | 0.245                      | 0.568                      | 0.179                      |
|           | LTE Band 71_Ant 0C | Right Cheek       | 0.185         | 0.204             | 0.321             | 0.414           | 0.289           | 0.107           | 0.549               | 0.499             | 0.506                    | 0.734                    | 0.706                      | 0.581                      | 0.791                      | 0.678                      |
|           |                    | Right Tilted      | 0.060         | 0.037             | 0.326             | 0.405           | 0.269           | 0.070           | 0.430               | 0.474             | 0.386                    | 0.490                    | 0.535                      | 0.399                      | 0.604                      | 0.366                      |
|           |                    | Left Cheek        | 0.216         | 0.084             | 0.462             | 0.195           | 0.111           | 0.097           | 0.544               | 0.391             | 0.678                    | 0.760                    | 0.508                      | 0.424                      | 0.704                      | 0.411                      |
|           |                    | Left Tilted       | 0.086         | 0.020             | 0.504             | 0.198           | 0.082           | 0.086           | 0.545               | 0.405             | 0.590                    | 0.631                    | 0.370                      | 0.254                      | 0.577                      | 0.188                      |



## &lt;WWAN 1 antenna&gt;

| WWAN Band |                   | Exposure Position | 1                  | 2                               | 3                               | 4                             | 5                             | 6                             | 7                                 | 8                               | 1+3 Summed 1g SAR (W/kg) | 1+7 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+5+6 Summed 1g SAR (W/kg) | 1+6+8 Summed 1g SAR (W/kg) | 1+2+5 Summed 1g SAR (W/kg) |
|-----------|-------------------|-------------------|--------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|           |                   |                   | WWAN 1g SAR (W/kg) | 2.4GHz WLAN Ant 2 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 5 1g SAR (W/kg) | Bluetooth Ant 2 1g SAR (W/kg) | 2.4GHz WLAN Ant 2+4 1g SAR (W/kg) | 5GHz WLAN Ant 4+5 1g SAR (W/kg) |                          |                          |                            |                            |                            |                            |
| GSM       | GSM850_Ant 1      | Right Cheek       | 0.928              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.249                    | 1.477                    | 1.449                      | 1.324                      | 1.534                      | 1.421                      |
|           |                   | Right Tilted      | 0.383              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 0.709                    | 0.813                    | 0.858                      | 0.722                      | 0.927                      | 0.689                      |
|           |                   | Left Cheek        | 0.784              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.246                    | 1.328                    | 1.076                      | 0.992                      | 1.272                      | 0.979                      |
|           |                   | Left Tilted       | 0.526              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.030                    | 1.071                    | 0.810                      | 0.694                      | 1.017                      | 0.628                      |
|           | GSM1900_Ant 1     | Right Cheek       | 0.951              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.272                    | 1.500                    | 1.472                      | 1.347                      | 1.557                      | 1.444                      |
|           |                   | Right Tilted      | 0.728              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.054                    | 1.158                    | 1.203                      | 1.067                      | 1.272                      | 1.034                      |
|           |                   | Left Cheek        | 0.698              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.160                    | 1.242                    | 0.990                      | 0.906                      | 1.186                      | 0.893                      |
|           |                   | Left Tilted       | 0.756              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.260                    | 1.301                    | 1.040                      | 0.924                      | 1.247                      | 0.858                      |
| WCDMA     | WCDMA II_Ant 1    | Right Cheek       | 0.963              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.284                    | 1.512                    | 1.484                      | 1.359                      | 1.569                      | 1.456                      |
|           |                   | Right Tilted      | 0.868              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.194                    | 1.298                    | 1.343                      | 1.207                      | 1.412                      | 1.174                      |
|           |                   | Left Cheek        | 0.407              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 0.869                    | 0.951                    | 0.699                      | 0.615                      | 0.895                      | 0.602                      |
|           |                   | Left Tilted       | 0.512              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.016                    | 1.057                    | 0.796                      | 0.680                      | 1.003                      | 0.614                      |
|           | WCDMA IV_Ant 1    | Right Cheek       | 0.916              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.237                    | 1.465                    | 1.437                      | 1.312                      | 1.522                      | 1.409                      |
|           |                   | Right Tilted      | 0.887              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.213                    | 1.317                    | 1.362                      | 1.226                      | 1.431                      | 1.193                      |
|           |                   | Left Cheek        | 0.483              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 0.945                    | 1.027                    | 0.775                      | 0.691                      | 0.971                      | 0.678                      |
|           |                   | Left Tilted       | 0.640              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.144                    | 1.185                    | 0.924                      | 0.808                      | 1.131                      | 0.742                      |
|           | WCDMA V_Ant 1     | Right Cheek       | 0.953              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.274                    | 1.502                    | 1.474                      | 1.349                      | 1.559                      | 1.446                      |
|           |                   | Right Tilted      | 0.386              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 0.712                    | 0.816                    | 0.861                      | 0.725                      | 0.930                      | 0.692                      |
|           |                   | Left Cheek        | 0.774              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.236                    | 1.318                    | 1.066                      | 0.982                      | 1.262                      | 0.969                      |
|           |                   | Left Tilted       | 0.618              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.122                    | 1.163                    | 0.902                      | 0.786                      | 1.109                      | 0.720                      |
| LTE       | LTE Band 7_Ant 1  | Right Cheek       | 0.884              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.205                    | 1.433                    | 1.405                      | 1.280                      | 1.490                      | 1.377                      |
|           |                   | Right Tilted      | 0.986              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.312                    | 1.416                    | 1.461                      | 1.325                      | 1.530                      | 1.292                      |
|           |                   | Left Cheek        | 0.689              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.151                    | 1.233                    | 0.981                      | 0.897                      | 1.177                      | 0.884                      |
|           |                   | Left Tilted       | 0.765              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.269                    | 1.310                    | 1.049                      | 0.933                      | 1.256                      | 0.867                      |
|           | LTE Band 12_Ant 1 | Right Cheek       | 0.955              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.276                    | 1.504                    | 1.476                      | 1.351                      | 1.561                      | 1.448                      |
|           |                   | Right Tilted      | 0.692              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.018                    | 1.122                    | 1.167                      | 1.031                      | 1.236                      | 0.998                      |
|           |                   | Left Cheek        | 0.528              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 0.990                    | 1.072                    | 0.820                      | 0.736                      | 1.016                      | 0.723                      |
|           |                   | Left Tilted       | 0.410              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 0.914                    | 0.955                    | 0.694                      | 0.578                      | 0.901                      | 0.512                      |
|           | LTE Band 13_Ant 1 | Right Cheek       | 0.950              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.271                    | 1.499                    | 1.471                      | 1.346                      | 1.556                      | 1.443                      |
|           |                   | Right Tilted      | 0.693              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.019                    | 1.123                    | 1.168                      | 1.032                      | 1.237                      | 0.999                      |
|           |                   | Left Cheek        | 0.626              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.088                    | 1.170                    | 0.918                      | 0.834                      | 1.114                      | 0.821                      |
|           |                   | Left Tilted       | 0.468              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 0.972                    | 1.013                    | 0.752                      | 0.636                      | 0.959                      | 0.570                      |
|           | LTE Band 25_Ant 1 | Right Cheek       | 0.987              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.308                    | 1.536                    | 1.508                      | 1.383                      | 1.593                      | 1.480                      |
|           |                   | Right Tilted      | 0.824              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.150                    | 1.254                    | 1.299                      | 1.163                      | 1.368                      | 1.130                      |
|           |                   | Left Cheek        | 0.445              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 0.907                    | 0.989                    | 0.737                      | 0.653                      | 0.933                      | 0.640                      |
|           |                   | Left Tilted       | 0.576              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.080                    | 1.121                    | 0.860                      | 0.744                      | 1.067                      | 0.678                      |
|           | LTE Band 26_Ant 1 | Right Cheek       | 0.931              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.252                    | 1.480                    | 1.452                      | 1.327                      | 1.537                      | 1.424                      |
|           |                   | Right Tilted      | 0.519              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 0.845                    | 0.949                    | 0.994                      | 0.858                      | 1.063                      | 0.825                      |
|           |                   | Left Cheek        | 0.687              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.149                    | 1.231                    | 0.979                      | 0.895                      | 1.175                      | 0.882                      |
|           |                   | Left Tilted       | 0.595              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.099                    | 1.140                    | 0.879                      | 0.763                      | 1.086                      | 0.697                      |
|           | LTE Band 41_Ant 1 | Right Cheek       | 0.913              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.234                    | 1.462                    | 1.434                      | 1.309                      | 1.519                      | 1.406                      |
|           |                   | Right Tilted      | 0.932              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.258                    | 1.362                    | 1.407                      | 1.271                      | 1.476                      | 1.238                      |
|           |                   | Left Cheek        | 0.876              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.338                    | 1.420                    | 1.168                      | 1.084                      | 1.364                      | 1.071                      |
|           |                   | Left Tilted       | 0.888              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.392                    | 1.433                    | 1.172                      | 1.056                      | 1.379                      | 0.990                      |
|           | LTE Band 66_Ant 1 | Right Cheek       | 0.960              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.281                    | 1.509                    | 1.481                      | 1.356                      | 1.566                      | 1.453                      |
|           |                   | Right Tilted      | 0.680              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.006                    | 1.110                    | 1.155                      | 1.019                      | 1.224                      | 0.986                      |
|           |                   | Left Cheek        | 0.657              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 1.119                    | 1.201                    | 0.949                      | 0.865                      | 1.145                      | 0.852                      |
|           |                   | Left Tilted       | 0.689              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 1.193                    | 1.234                    | 0.973                      | 0.857                      | 1.180                      | 0.791                      |
|           | LTE Band 71_Ant 1 | Right Cheek       | 0.912              | 0.204                           | 0.321                           | 0.414                         | 0.289                         | 0.107                         | 0.549                             | 0.499                           | 1.233                    | 1.461                    | 1.433                      | 1.308                      | 1.518                      | 1.405                      |
|           |                   | Right Tilted      | 0.773              | 0.037                           | 0.326                           | 0.405                         | 0.269                         | 0.070                         | 0.430                             | 0.474                           | 1.099                    | 1.203                    | 1.248                      | 1.112                      | 1.317                      | 1.079                      |
|           |                   | Left Cheek        | 0.378              | 0.084                           | 0.462                           | 0.195                         | 0.111                         | 0.097                         | 0.544                             | 0.391                           | 0.840                    | 0.922                    | 0.670                      | 0.586                      | 0.866                      | 0.573                      |
|           |                   | Left Tilted       | 0.283              | 0.020                           | 0.504                           | 0.198                         | 0.082                         | 0.086                         | 0.545                             | 0.405                           | 0.787                    | 0.828                    | 0.567                      | 0.451                      | 0.774                      | 0.385                      |

**16.2 Hotspot Exposure Conditions**

&lt;Simultaneous Transmission is active

&lt;WWAN 0B antenna&gt;

| WWAN Band |                    | Exposure Position | 1                        | 2                                           | 3                                           | 4                                         | 5                                         | 6                                      | 7                                             | 8                                           | 1+3<br>Summed<br>1g SAR<br>(W/kg) | 1+7<br>Summed<br>1g SAR<br>(W/kg) | 1+4+6<br>Summed<br>1g SAR<br>(W/kg) | 1+5+6<br>Summed<br>1g SAR<br>(W/kg) | 1+6+8<br>Summed<br>1g SAR<br>(W/kg) | 1+2+5<br>Summed<br>1g SAR<br>(W/kg) |
|-----------|--------------------|-------------------|--------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|           |                    |                   | WWAN<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 2<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 4<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 4<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 5<br>1g SAR<br>(W/kg) | Bluetooth<br>Ant 2<br>1g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 2+4<br>1g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 4+5<br>1g SAR<br>(W/kg) |                                   |                                   |                                     |                                     |                                     |                                     |
| GSM       | GSM1900_Ant 0B     | Front             | 0.625                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.832                             | 0.992                             | 1.109                               | 0.834                               | 0.929                               | 0.756                               |
|           |                    | Back              | 0.956                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 1.154                             | 1.467                             | 1.200                               | 1.253                               | 1.352                               | 1.428                               |
|           |                    | Left side         | 0.175                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.175                             | 0.678                             | 0.362                               | 0.484                               | 0.509                               | 0.519                               |
|           |                    | Right side        |                          |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.010                             | 0.069                             | 0.044                               | 0.000                               | 0.034                               | 0.000                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.489                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.489                             | 0.489                             | 0.489                               | 0.489                               | 0.489                               | 0.489                               |
| WCDMA     | WCDMA II_Ant 0B    | Front             | 0.717                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.924                             | 1.084                             | 1.201                               | 0.926                               | 1.021                               | 0.848                               |
|           |                    | Back              | 0.942                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 1.140                             | 1.453                             | 1.186                               | 1.239                               | 1.338                               | 1.414                               |
|           |                    | Left side         | 0.267                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.267                             | 0.770                             | 0.454                               | 0.576                               | 0.601                               | 0.611                               |
|           |                    | Right side        | 0.792                    |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.802                             | 0.861                             | 0.836                               | 0.792                               | 0.826                               | 0.792                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       |                          |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.000                             | 0.000                             | 0.000                               | 0.000                               | 0.000                               | 0.000                               |
|           | WCDMA IV_Ant 0B    | Front             | 0.599                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.806                             | 0.966                             | 1.083                               | 0.808                               | 0.903                               | 0.730                               |
|           |                    | Back              | 0.750                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 0.948                             | 1.261                             | 0.994                               | 1.047                               | 1.146                               | 1.222                               |
|           |                    | Left side         | 0.128                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.128                             | 0.631                             | 0.315                               | 0.437                               | 0.462                               | 0.472                               |
|           |                    | Right side        |                          |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.010                             | 0.069                             | 0.044                               | 0.000                               | 0.034                               | 0.000                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.831                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.831                             | 0.831                             | 0.831                               | 0.831                               | 0.831                               | 0.831                               |
| LTE       | LTE Band 7_Ant 0B  | Front             | 0.463                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.670                             | 0.830                             | 0.947                               | 0.672                               | 0.767                               | 0.594                               |
|           |                    | Back              | 0.764                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 0.962                             | 1.275                             | 1.008                               | 1.061                               | 1.160                               | 1.236                               |
|           |                    | Left side         | 0.114                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.114                             | 0.617                             | 0.301                               | 0.423                               | 0.448                               | 0.458                               |
|           |                    | Right side        | 0.920                    |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.930                             | 0.989                             | 0.964                               | 0.920                               | 0.954                               | 0.920                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.269                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.269                             | 0.269                             | 0.269                               | 0.269                               | 0.269                               | 0.269                               |
|           | LTE Band 25_Ant 0B | Front             | 0.645                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.852                             | 1.012                             | 1.129                               | 0.854                               | 0.949                               | 0.776                               |
|           |                    | Back              | 0.957                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 1.155                             | 1.468                             | 1.201                               | 1.254                               | 1.353                               | 1.429                               |
|           |                    | Left side         | 0.137                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.137                             | 0.640                             | 0.324                               | 0.446                               | 0.471                               | 0.481                               |
|           |                    | Right side        | 0.668                    |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.678                             | 0.737                             | 0.712                               | 0.668                               | 0.702                               | 0.668                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.637                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.637                             | 0.637                             | 0.637                               | 0.637                               | 0.637                               | 0.637                               |
|           | LTE Band 41_Ant 0B | Front             | 0.462                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.669                             | 0.829                             | 0.946                               | 0.671                               | 0.766                               | 0.593                               |
|           |                    | Back              | 0.596                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 0.794                             | 1.107                             | 0.840                               | 0.893                               | 0.992                               | 1.068                               |
|           |                    | Left side         | 0.089                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.089                             | 0.592                             | 0.276                               | 0.398                               | 0.423                               | 0.433                               |
|           |                    | Right side        | 0.927                    |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.937                             | 0.996                             | 0.971                               | 0.927                               | 0.961                               | 0.927                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.357                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.357                             | 0.357                             | 0.357                               | 0.357                               | 0.357                               | 0.357                               |
|           | LTE Band 66_Ant 0B | Front             | 0.713                    | 0.084                                       | 0.207                                       | 0.322                                     | 0.047                                     | 0.162                                  | 0.367                                         | 0.142                                       | 0.920                             | 1.080                             | 1.197                               | 0.922                               | 1.017                               | 0.844                               |
|           |                    | Back              | 0.734                    | 0.175                                       | 0.198                                       | 0.244                                     | 0.297                                     |                                        | 0.511                                         | 0.396                                       | 0.932                             | 1.245                             | 0.978                               | 1.031                               | 1.130                               | 1.206                               |
|           |                    | Left side         | 0.174                    | 0.222                                       |                                             |                                           | 0.122                                     | 0.187                                  | 0.503                                         | 0.147                                       | 0.174                             | 0.677                             | 0.361                               | 0.483                               | 0.508                               | 0.518                               |
|           |                    | Right side        | 0.484                    |                                             | 0.010                                       | 0.044                                     |                                           |                                        | 0.069                                         | 0.034                                       | 0.494                             | 0.553                             | 0.528                               | 0.484                               | 0.518                               | 0.484                               |
|           |                    | Top side          |                          | 0.013                                       | 0.512                                       | 0.256                                     | 0.124                                     | 0.007                                  | 0.526                                         | 0.211                                       | 0.512                             | 0.526                             | 0.263                               | 0.131                               | 0.218                               | 0.137                               |
|           |                    | Bottom side       | 0.865                    |                                             |                                             |                                           |                                           |                                        |                                               |                                             | 0.865                             | 0.865                             | 0.865                               | 0.865                               | 0.865                               | 0.865                               |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

## <WWAN 0C antenna>

| WWAN Band |                    | Exposure Position | 1             | 2                 | 3                 | 4               | 5               | 6               | 7                   | 8                 | 1+3                  | 1+7                  | 1+4+6                | 1+5+6                | 1+6+8                | 1+2+5                |
|-----------|--------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|           |                    |                   | WWAN          | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2 | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+5 | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) |
|           |                    |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        |
| GSM       | GSM850_Ant 0C      | Front             | 0.749         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.956                | 1.116                | 1.233                | 0.958                | 1.053                | 0.880                |
|           |                    | Back              | 0.949         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 1.147                | 1.460                | 1.193                | 1.246                | 1.345                | 1.421                |
|           |                    | Left side         | 0.238         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.238                | 0.741                | 0.425                | 0.547                | 0.572                | 0.582                |
|           |                    | Right side        | 0.077         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.087                | 0.146                | 0.121                | 0.077                | 0.111                | 0.077                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.877         |                   |                   |                 |                 |                 |                     |                   | 0.877                | 0.877                | 0.877                | 0.877                | 0.877                | 0.877                |
| WCDMA     | WCDMA IV_Ant 0C    | Front             | 0.359         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.566                | 0.726                | 0.843                | 0.568                | 0.663                | 0.490                |
|           |                    | Back              | 0.447         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.645                | 0.958                | 0.691                | 0.744                | 0.843                | 0.919                |
|           |                    | Left side         | 0.726         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.726                | 1.229                | 0.913                | 1.035                | 1.060                | 1.070                |
|           |                    | Right side        | 0.249         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.259                | 0.318                | 0.293                | 0.249                | 0.283                | 0.249                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.375         |                   |                   |                 |                 |                 |                     |                   | 0.375                | 0.375                | 0.375                | 0.375                | 0.375                | 0.375                |
|           | WCDMA V_Ant 0C     | Front             | 0.637         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.844                | 1.004                | 1.121                | 0.846                | 0.941                | 0.768                |
|           |                    | Back              | 0.953         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 1.151                | 1.464                | 1.197                | 1.250                | 1.349                | 1.425                |
|           |                    | Left side         | 0.202         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.202                | 0.705                | 0.389                | 0.511                | 0.536                | 0.546                |
|           |                    | Right side        | 0.040         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.050                | 0.109                | 0.084                | 0.040                | 0.074                | 0.040                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.827         |                   |                   |                 |                 |                 |                     |                   | 0.827                | 0.827                | 0.827                | 0.827                | 0.827                | 0.827                |
| LTE       | LTE Band 4_Ant 0C  | Front             | 0.342         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.549                | 0.709                | 0.826                | 0.551                | 0.646                | 0.473                |
|           |                    | Back              | 0.395         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.593                | 0.906                | 0.639                | 0.692                | 0.791                | 0.867                |
|           |                    | Left side         | 0.590         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.590                | 1.093                | 0.777                | 0.899                | 0.924                | 0.934                |
|           |                    | Right side        | 0.337         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.347                | 0.406                | 0.381                | 0.337                | 0.371                | 0.337                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.185         |                   |                   |                 |                 |                 |                     |                   | 0.185                | 0.185                | 0.185                | 0.185                | 0.185                | 0.185                |
|           | LTE Band 7_Ant 0C  | Front             | 0.474         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.681                | 0.841                | 0.958                | 0.683                | 0.778                | 0.605                |
|           |                    | Back              | 0.682         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.880                | 1.193                | 0.926                | 0.979                | 1.078                | 1.154                |
|           |                    | Left side         | 0.770         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.770                | 1.273                | 0.957                | 1.079                | 1.104                | 1.114                |
|           |                    | Right side        | 0.125         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.135                | 0.194                | 0.169                | 0.125                | 0.159                | 0.125                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.242         |                   |                   |                 |                 |                 |                     |                   | 0.242                | 0.242                | 0.242                | 0.242                | 0.242                | 0.242                |
|           | LTE Band 12_Ant 0C | Front             | 0.253         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.460                | 0.620                | 0.737                | 0.462                | 0.557                | 0.384                |
|           |                    | Back              | 0.328         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.526                | 0.839                | 0.572                | 0.625                | 0.724                | 0.800                |
|           |                    | Left side         | 0.209         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.209                | 0.712                | 0.396                | 0.518                | 0.543                | 0.553                |
|           |                    | Right side        | 0.108         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.118                | 0.177                | 0.152                | 0.108                | 0.142                | 0.108                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.297         |                   |                   |                 |                 |                 |                     |                   | 0.297                | 0.297                | 0.297                | 0.297                | 0.297                | 0.297                |
|           | LTE Band 13_Ant 0C | Front             | 0.552         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.759                | 0.919                | 1.036                | 0.761                | 0.856                | 0.683                |
|           |                    | Back              | 0.651         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.849                | 1.162                | 0.895                | 0.948                | 1.047                | 1.123                |
|           |                    | Left side         | 0.268         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.268                | 0.771                | 0.455                | 0.577                | 0.602                | 0.612                |
|           |                    | Right side        | 0.085         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.095                | 0.154                | 0.129                | 0.085                | 0.119                | 0.085                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.592         |                   |                   |                 |                 |                 |                     |                   | 0.592                | 0.592                | 0.592                | 0.592                | 0.592                | 0.592                |
|           | LTE Band 26_Ant 0C | Front             | 0.746         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.953                | 1.113                | 1.230                | 0.955                | 1.050                | 0.877                |
|           |                    | Back              | 0.984         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 1.182                | 1.495                | 1.228                | 1.281                | 1.380                | 1.456                |
|           |                    | Left side         | 0.284         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.284                | 0.787                | 0.471                | 0.593                | 0.618                | 0.628                |
|           |                    | Right side        | 0.110         |                   | 0.010             | 0.044           |                 |                 | 0.069               | 0.034             | 0.120                | 0.179                | 0.154                | 0.110                | 0.144                | 0.110                |
|           |                    | Top side          |               | 0.013             | 0.512             | 0.256           | 0.124           | 0.007           | 0.526               | 0.211             | 0.512                | 0.526                | 0.263                | 0.131                | 0.218                | 0.137                |
|           |                    | Bottom side       | 0.824         |                   |                   |                 |                 |                 |                     |                   | 0.824                | 0.824                | 0.824                | 0.824                | 0.824                | 0.824                |
|           | LTE Band 38_Ant 0C | Front             | 0.217         | 0.084             | 0.207             | 0.322           | 0.047           | 0.162           | 0.367               | 0.142             | 0.424                | 0.584                | 0.701                | 0.426                | 0.521                | 0.348                |
|           |                    | Back              | 0.350         | 0.175             | 0.198             | 0.244           | 0.297           |                 | 0.511               | 0.396             | 0.548                | 0.861                | 0.594                | 0.647                | 0.746                | 0.822                |
|           |                    | Left side         | 0.554         | 0.222             |                   |                 | 0.122           | 0.187           | 0.503               | 0.147             | 0.554                | 1.057                | 0.741                | 0.863                | 0.888                | 0.898                |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|  |                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|--------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |                    | Right side  | 0.098 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.108 | 0.167 | 0.142 | 0.098 | 0.132 | 0.098 |
|  |                    | Top side    |       | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 0.512 | 0.526 | 0.263 | 0.131 | 0.218 | 0.137 |
|  |                    | Bottom side | 0.109 |       |       |       |       |       |       |       | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 | 0.109 |
|  | LTE Band 41_Ant 0C | Front       | 0.182 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.389 | 0.549 | 0.666 | 0.391 | 0.486 | 0.313 |
|  |                    | Back        | 0.343 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.541 | 0.854 | 0.587 | 0.640 | 0.739 | 0.815 |
|  |                    | Left side   | 0.079 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.079 | 0.582 | 0.266 | 0.388 | 0.413 | 0.423 |
|  |                    | Right side  | 0.493 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.503 | 0.562 | 0.537 | 0.493 | 0.527 | 0.493 |
|  |                    | Top side    |       | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 0.512 | 0.526 | 0.263 | 0.131 | 0.218 | 0.137 |
|  |                    | Bottom side | 0.091 |       |       |       |       |       |       |       | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 | 0.091 |
|  | LTE Band 71_Ant 0C | Front       | 0.283 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.490 | 0.650 | 0.767 | 0.492 | 0.587 | 0.414 |
|  |                    | Back        | 0.385 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.583 | 0.896 | 0.629 | 0.682 | 0.781 | 0.857 |
|  |                    | Left side   | 0.264 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.264 | 0.767 | 0.451 | 0.573 | 0.598 | 0.608 |
|  |                    | Right side  | 0.121 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.131 | 0.190 | 0.165 | 0.121 | 0.155 | 0.121 |
|  |                    | Top side    |       | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 0.512 | 0.526 | 0.263 | 0.131 | 0.218 | 0.137 |
|  |                    | Bottom side | 0.302 |       |       |       |       |       |       |       | 0.302 | 0.302 | 0.302 | 0.302 | 0.302 | 0.302 |

**FCC SAR TEST REPORT**

Report No. : FA8N0620-06A

## &lt;WWAN 1 antenna&gt;

| WWAN Band |                   | Exposure Position | 1                  | 2                               | 3                               | 4                             | 5                             | 6                             | 7                                 | 8                               | 1+3 Summed 1g SAR (W/kg) | 1+7 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+5+6 Summed 1g SAR (W/kg) | 1+6+8 Summed 1g SAR (W/kg) | 1+2+5 Summed 1g SAR (W/kg) |
|-----------|-------------------|-------------------|--------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|---------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|           |                   |                   | WWAN 1g SAR (W/kg) | 2.4GHz WLAN Ant 2 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 5 1g SAR (W/kg) | Bluetooth Ant 2 1g SAR (W/kg) | 2.4GHz WLAN Ant 2+4 1g SAR (W/kg) | 5GHz WLAN Ant 4+5 1g SAR (W/kg) |                          |                          |                            |                            |                            |                            |
| GSM       | GSM850_Ant 1      | Front             | 0.347              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.554                    | 0.714                    | 0.831                      | 0.556                      | 0.651                      | 0.478                      |
|           |                   | Back              | 0.433              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.631                    | 0.944                    | 0.677                      | 0.730                      | 0.829                      | 0.905                      |
|           |                   | Left side         | 0.225              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.225                    | 0.728                    | 0.412                      | 0.534                      | 0.559                      | 0.569                      |
|           |                   | Right side        | 0.114              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.124                    | 0.183                    | 0.158                      | 0.114                      | 0.148                      | 0.114                      |
|           |                   | Top side          | 0.187              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 0.699                    | 0.713                    | 0.450                      | 0.318                      | 0.405                      | 0.324                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | GSM1900_Ant 1     | Front             | 0.648              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.855                    | 1.015                    | 1.132                      | 0.857                      | 0.952                      | 0.779                      |
|           |                   | Back              | 0.793              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.991                    | 1.304                    | 1.037                      | 1.090                      | 1.189                      | 1.265                      |
|           |                   | Left side         | 0.554              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.554                    | 1.057                    | 0.741                      | 0.863                      | 0.888                      | 0.898                      |
|           |                   | Right side        | 0.136              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.146                    | 0.205                    | 0.180                      | 0.136                      | 0.170                      | 0.136                      |
|           |                   | Top side          | 0.944              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 1.456                    | 1.470                    | 1.207                      | 1.075                      | 1.162                      | 1.081                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
| WCDMA     | WCDMA II_Ant 1    | Front             | 0.664              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.871                    | 1.031                    | 1.148                      | 0.873                      | 0.968                      | 0.795                      |
|           |                   | Back              | 0.786              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.984                    | 1.297                    | 1.030                      | 1.083                      | 1.182                      | 1.258                      |
|           |                   | Left side         | 0.534              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.534                    | 1.037                    | 0.721                      | 0.843                      | 0.868                      | 0.878                      |
|           |                   | Right side        | 0.116              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.126                    | 0.185                    | 0.160                      | 0.116                      | 0.150                      | 0.116                      |
|           |                   | Top side          | 0.941              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 1.453                    | 1.467                    | 1.204                      | 1.072                      | 1.159                      | 1.078                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | WCDMA IV_Ant 1    | Front             | 0.725              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.932                    | 1.092                    | 1.209                      | 0.934                      | 1.029                      | 0.856                      |
|           |                   | Back              | 0.863              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 1.061                    | 1.374                    | 1.107                      | 1.160                      | 1.259                      | 1.335                      |
|           |                   | Left side         | 0.471              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.471                    | 0.974                    | 0.658                      | 0.780                      | 0.805                      | 0.815                      |
|           |                   | Right side        | 0.115              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.125                    | 0.184                    | 0.159                      | 0.115                      | 0.149                      | 0.115                      |
|           |                   | Top side          | 0.985              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 1.497                    | 1.511                    | 1.248                      | 1.116                      | 1.203                      | 1.122                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | WCDMA V_Ant 1     | Front             | 0.419              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.626                    | 0.786                    | 0.903                      | 0.628                      | 0.723                      | 0.550                      |
|           |                   | Back              | 0.529              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.727                    | 1.040                    | 0.773                      | 0.826                      | 0.925                      | 1.001                      |
|           |                   | Left side         | 0.343              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.343                    | 0.846                    | 0.530                      | 0.652                      | 0.677                      | 0.687                      |
|           |                   | Right side        | 0.167              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.177                    | 0.236                    | 0.211                      | 0.167                      | 0.201                      | 0.167                      |
|           |                   | Top side          | 0.203              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 0.715                    | 0.729                    | 0.466                      | 0.334                      | 0.421                      | 0.340                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
| LTE       | LTE Band 7_Ant 1  | Front             | 0.442              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.649                    | 0.809                    | 0.926                      | 0.651                      | 0.746                      | 0.573                      |
|           |                   | Back              | 0.533              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.731                    | 1.044                    | 0.777                      | 0.830                      | 0.929                      | 1.005                      |
|           |                   | Left side         | 0.191              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.191                    | 0.694                    | 0.378                      | 0.500                      | 0.525                      | 0.535                      |
|           |                   | Right side        | 0.064              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.074                    | 0.133                    | 0.108                      | 0.064                      | 0.098                      | 0.064                      |
|           |                   | Top side          | 0.946              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 1.458                    | 1.472                    | 1.209                      | 1.077                      | 1.164                      | 1.083                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | LTE Band 12_Ant 1 | Front             | 0.238              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.445                    | 0.605                    | 0.722                      | 0.447                      | 0.542                      | 0.369                      |
|           |                   | Back              | 0.267              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.465                    | 0.778                    | 0.511                      | 0.564                      | 0.663                      | 0.739                      |
|           |                   | Left side         | 0.241              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.241                    | 0.744                    | 0.428                      | 0.550                      | 0.575                      | 0.585                      |
|           |                   | Right side        | 0.104              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.114                    | 0.173                    | 0.148                      | 0.104                      | 0.138                      | 0.104                      |
|           |                   | Top side          | 0.169              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 0.681                    | 0.695                    | 0.432                      | 0.300                      | 0.387                      | 0.306                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | LTE Band 13_Ant 1 | Front             | 0.425              | 0.084                           | 0.207                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.632                    | 0.792                    | 0.909                      | 0.634                      | 0.729                      | 0.556                      |
|           |                   | Back              | 0.502              | 0.175                           | 0.198                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 0.700                    | 1.013                    | 0.746                      | 0.799                      | 0.898                      | 0.974                      |
|           |                   | Left side         | 0.276              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.276                    | 0.779                    | 0.463                      | 0.585                      | 0.610                      | 0.620                      |
|           |                   | Right side        | 0.115              |                                 | 0.010                           | 0.044                         |                               |                               | 0.069                             | 0.034                           | 0.125                    | 0.184                    | 0.159                      | 0.115                      | 0.149                      | 0.115                      |
|           |                   | Top side          | 0.165              | 0.013                           | 0.512                           | 0.256                         | 0.124                         | 0.007                         | 0.526                             | 0.211                           | 0.677                    | 0.691                    | 0.428                      | 0.296                      | 0.383                      | 0.302                      |
|           |                   | Bottom side       |                    |                                 |                                 |                               |                               |                               |                                   |                                 | 0.000                    | 0.000                    | 0.000                      | 0.000                      | 0.000                      | 0.000                      |
|           | LTE Band 25_Ant 1 | Front             | 0.720              | 0.084                           | 0.209                           | 0.322                         | 0.047                         | 0.162                         | 0.367                             | 0.142                           | 0.929                    | 1.087                    | 1.204                      | 0.929                      | 1.024                      | 0.851                      |
|           |                   | Back              | 0.993              | 0.175                           | 0.207                           | 0.244                         | 0.297                         |                               | 0.511                             | 0.396                           | 1.200                    | 1.504                    | 1.237                      | 1.290                      | 1.389                      | 1.465                      |
|           |                   | Left side         | 0.567              | 0.222                           |                                 |                               | 0.122                         | 0.187                         | 0.503                             | 0.147                           | 0.567                    | 1.070                    | 0.754                      | 0.876                      | 0.901                      | 0.911                      |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|  |                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |                   | Right side  | 0.120 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.130 | 0.189 | 0.164 | 0.120 | 0.154 | 0.120 |
|  |                   | Top side    | 0.991 | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 1.503 | 1.517 | 1.254 | 1.122 | 1.209 | 1.128 |
|  |                   | Bottom side |       |       |       |       |       |       |       |       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | LTE Band 26_Ant 1 | Front       | 0.363 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.570 | 0.730 | 0.847 | 0.572 | 0.667 | 0.494 |
|  |                   | Back        | 0.505 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.703 | 1.016 | 0.749 | 0.802 | 0.901 | 0.977 |
|  |                   | Left side   | 0.308 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.308 | 0.811 | 0.495 | 0.617 | 0.642 | 0.652 |
|  |                   | Right side  | 0.129 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.139 | 0.198 | 0.173 | 0.129 | 0.163 | 0.129 |
|  |                   | Top side    | 0.172 | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 0.684 | 0.698 | 0.435 | 0.303 | 0.390 | 0.309 |
|  |                   | Bottom side |       |       |       |       |       |       |       |       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | LTE Band 41_Ant 1 | Front       | 0.567 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.774 | 0.934 | 1.051 | 0.776 | 0.871 | 0.698 |
|  |                   | Back        | 0.687 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.885 | 1.198 | 0.931 | 0.984 | 1.083 | 1.159 |
|  |                   | Left side   | 0.246 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.246 | 0.749 | 0.433 | 0.555 | 0.580 | 0.590 |
|  |                   | Right side  | 0.142 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.152 | 0.211 | 0.186 | 0.142 | 0.176 | 0.142 |
|  |                   | Top side    | 0.975 | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 1.487 | 1.501 | 1.238 | 1.106 | 1.193 | 1.112 |
|  |                   | Bottom side |       |       |       |       |       |       |       |       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | LTE Band 66_Ant 1 | Front       | 0.698 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.905 | 1.065 | 1.182 | 0.907 | 1.002 | 0.829 |
|  |                   | Back        | 0.770 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.968 | 1.281 | 1.014 | 1.067 | 1.166 | 1.242 |
|  |                   | Left side   | 0.612 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.612 | 1.115 | 0.799 | 0.921 | 0.946 | 0.956 |
|  |                   | Right side  | 0.110 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.120 | 0.179 | 0.154 | 0.110 | 0.144 | 0.110 |
|  |                   | Top side    | 0.979 | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 1.491 | 1.505 | 1.242 | 1.110 | 1.197 | 1.116 |
|  |                   | Bottom side |       |       |       |       |       |       |       |       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  | LTE Band 71_Ant 1 | Front       | 0.206 | 0.084 | 0.207 | 0.322 | 0.047 | 0.162 | 0.367 | 0.142 | 0.413 | 0.573 | 0.690 | 0.415 | 0.510 | 0.337 |
|  |                   | Back        | 0.247 | 0.175 | 0.198 | 0.244 | 0.297 |       | 0.511 | 0.396 | 0.445 | 0.758 | 0.491 | 0.544 | 0.643 | 0.719 |
|  |                   | Left side   | 0.148 | 0.222 |       |       | 0.122 | 0.187 | 0.503 | 0.147 | 0.148 | 0.651 | 0.335 | 0.457 | 0.482 | 0.492 |
|  |                   | Right side  | 0.049 |       | 0.010 | 0.044 |       |       | 0.069 | 0.034 | 0.059 | 0.118 | 0.093 | 0.049 | 0.083 | 0.049 |
|  |                   | Top side    | 0.111 | 0.013 | 0.512 | 0.256 | 0.124 | 0.007 | 0.526 | 0.211 | 0.623 | 0.637 | 0.374 | 0.242 | 0.329 | 0.248 |
|  |                   | Bottom side |       |       |       |       |       |       |       |       | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

### 16.3 Body-Worn Accessory Exposure Conditions

#### <Standalone>

| Exposure Position | 2                 | 3                 | 4               | 5               | 6                       | 7                       | 2+5 Summed 1g SAR (W/kg) | 4+6 Summed 1g SAR (W/kg) | 5+6 Summed 1g SAR (W/kg) | 6+7 Summed 1g SAR (W/kg) |
|-------------------|-------------------|-------------------|-----------------|-----------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                   | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2         | 5GHz WLAN Ant 4+5       |                          |                          |                          |                          |
|                   | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | Estimated 1g SAR (W/kg) | Estimated 1g SAR (W/kg) |                          |                          |                          |                          |
| Front             | 0.595             | 0.462             | 0.451           | 0.082           | 0.227                   | 0.152                   | <b>0.677</b>             | <b>0.678</b>             | <b>0.309</b>             | <b>0.379</b>             |
| Back              | 0.780             | 0.508             | 0.322           | 0.793           | 0.315                   | 1.183                   | <b>1.573</b>             | <b>0.637</b>             | <b>1.108</b>             | <b>1.498</b>             |

| Exposure Position | 2                 | 3                 | 2+3 Summed 1g SAR (W/kg) |
|-------------------|-------------------|-------------------|--------------------------|
|                   | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 |                          |
|                   | 1g SAR (W/kg)     | 1g SAR (W/kg)     |                          |
| Front             | 0.728             | 0.462             | <b>1.190</b>             |
| Back              | 1.020             | 0.508             | <b>1.528</b>             |

#### <Simultaneous Transmission is active

#### <WWAN 0B antenna>

| WWAN Band |                    | Exposure Position | 1             | 2                 | 3                 | 4               | 5               | 6               | 7                   | 8                 | 1+3 Summed 1g SAR (W/kg) | 1+7 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) | 1+5+6 Summed 1g SAR (W/kg) | 1+6+8 Summed 1g SAR (W/kg) | 1+2+5 Summed 1g SAR (W/kg) |
|-----------|--------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------|-------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|           |                    |                   | WWAN          | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2 | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+5 |                          |                          |                            |                            |                            |                            |
|           |                    |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)       | 1g SAR (W/kg)     |                          |                          |                            |                            |                            |                            |
| GSM       | GSM1900_Ant 0B     | Front             | 0.625         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.832</b>             | <b>0.992</b>             | <b>1.120</b>               | <b>0.846</b>               | <b>0.919</b>               | <b>0.768</b>               |
|           |                    | Back              | 0.956         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.154</b>             | <b>1.467</b>             | <b>1.370</b>               | <b>1.416</b>               | <b>1.518</b>               | <b>1.421</b>               |
| WCDMA     | WCDMA II_Ant 0B    | Front             | 0.717         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.924</b>             | <b>1.084</b>             | <b>1.212</b>               | <b>0.938</b>               | <b>1.011</b>               | <b>0.860</b>               |
|           |                    | Back              | 0.942         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.140</b>             | <b>1.453</b>             | <b>1.356</b>               | <b>1.402</b>               | <b>1.504</b>               | <b>1.407</b>               |
|           | WCDMA IV_Ant 0B    | Front             | 0.599         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.806</b>             | <b>0.966</b>             | <b>1.094</b>               | <b>0.820</b>               | <b>0.893</b>               | <b>0.742</b>               |
|           |                    | Back              | 0.750         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.948</b>             | <b>1.261</b>             | <b>1.164</b>               | <b>1.210</b>               | <b>1.312</b>               | <b>1.215</b>               |
| LTE       | LTE Band 7_Ant 0B  | Front             | 0.463         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.670</b>             | <b>0.830</b>             | <b>0.958</b>               | <b>0.684</b>               | <b>0.757</b>               | <b>0.606</b>               |
|           |                    | Back              | 0.764         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.962</b>             | <b>1.275</b>             | <b>1.178</b>               | <b>1.224</b>               | <b>1.326</b>               | <b>1.229</b>               |
|           | LTE Band 25_Ant 0B | Front             | 0.645         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.852</b>             | <b>1.012</b>             | <b>1.140</b>               | <b>0.866</b>               | <b>0.939</b>               | <b>0.788</b>               |
|           |                    | Back              | 0.957         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.155</b>             | <b>1.468</b>             | <b>1.371</b>               | <b>1.417</b>               | <b>1.519</b>               | <b>1.422</b>               |
|           | LTE Band 41_Ant 0B | Front             | 0.542         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.749</b>             | <b>0.909</b>             | <b>1.037</b>               | <b>0.763</b>               | <b>0.836</b>               | <b>0.685</b>               |
|           |                    | Back              | 0.760         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.958</b>             | <b>1.271</b>             | <b>1.174</b>               | <b>1.220</b>               | <b>1.322</b>               | <b>1.225</b>               |
|           | LTE Band 66_Ant 0B | Front             | 0.713         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.920</b>             | <b>1.080</b>             | <b>1.208</b>               | <b>0.934</b>               | <b>1.007</b>               | <b>0.856</b>               |
|           |                    | Back              | 0.734         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.932</b>             | <b>1.245</b>             | <b>1.148</b>               | <b>1.194</b>               | <b>1.296</b>               | <b>1.199</b>               |



**<WWAN 0C antenna>**

| WWAN Band |                    | Exposure Position | 1             | 2                 | 3                 | 4               | 5               | 6               | 7                   | 8                 | 1+3                  | 1+7                  | 1+4+6                | 1+5+6                | 1+6+8                | 1+2+5                |
|-----------|--------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|           |                    |                   | WWAN          | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2 | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+5 | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) |
|           |                    |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)       | 1g SAR (W/kg)     |                      |                      |                      |                      |                      |                      |
| GSM       | GSM850_Ant 0C      | Front             | 0.749         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.956</b>         | <b>1.116</b>         | <b>1.244</b>         | <b>0.970</b>         | <b>1.043</b>         | <b>0.892</b>         |
|           |                    | Back              | 0.949         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.147</b>         | <b>1.460</b>         | <b>1.363</b>         | <b>1.409</b>         | <b>1.511</b>         | <b>1.414</b>         |
| WCDMA     | WCDMA IV_Ant 0C    | Front             | 0.359         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.566</b>         | <b>0.726</b>         | <b>0.854</b>         | <b>0.580</b>         | <b>0.653</b>         | <b>0.502</b>         |
|           |                    | Back              | 0.447         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.645</b>         | <b>0.958</b>         | <b>0.861</b>         | <b>0.907</b>         | <b>1.009</b>         | <b>0.912</b>         |
|           | WCDMA V_Ant 0C     | Front             | 0.637         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.844</b>         | <b>1.004</b>         | <b>1.132</b>         | <b>0.858</b>         | <b>0.931</b>         | <b>0.780</b>         |
|           |                    | Back              | 0.953         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.151</b>         | <b>1.464</b>         | <b>1.367</b>         | <b>1.413</b>         | <b>1.515</b>         | <b>1.418</b>         |
| LTE       | LTE Band 4_Ant 0C  | Front             | 0.342         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.549</b>         | <b>0.709</b>         | <b>0.837</b>         | <b>0.563</b>         | <b>0.636</b>         | <b>0.485</b>         |
|           |                    | Back              | 0.395         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.593</b>         | <b>0.906</b>         | <b>0.809</b>         | <b>0.855</b>         | <b>0.957</b>         | <b>0.860</b>         |
|           | LTE Band 7_Ant 0C  | Front             | 0.474         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.681</b>         | <b>0.841</b>         | <b>0.969</b>         | <b>0.695</b>         | <b>0.768</b>         | <b>0.617</b>         |
|           |                    | Back              | 0.682         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.880</b>         | <b>1.193</b>         | <b>1.096</b>         | <b>1.142</b>         | <b>1.244</b>         | <b>1.147</b>         |
|           | LTE Band 12_Ant 0C | Front             | 0.253         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.460</b>         | <b>0.620</b>         | <b>0.748</b>         | <b>0.474</b>         | <b>0.547</b>         | <b>0.396</b>         |
|           |                    | Back              | 0.328         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.526</b>         | <b>0.839</b>         | <b>0.742</b>         | <b>0.788</b>         | <b>0.890</b>         | <b>0.793</b>         |
|           | LTE Band 13_Ant 0C | Front             | 0.552         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.759</b>         | <b>0.919</b>         | <b>1.047</b>         | <b>0.773</b>         | <b>0.846</b>         | <b>0.695</b>         |
|           |                    | Back              | 0.651         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.849</b>         | <b>1.162</b>         | <b>1.065</b>         | <b>1.111</b>         | <b>1.213</b>         | <b>1.116</b>         |
|           | LTE Band 26_Ant 0C | Front             | 0.746         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.953</b>         | <b>1.113</b>         | <b>1.241</b>         | <b>0.967</b>         | <b>1.040</b>         | <b>0.889</b>         |
|           |                    | Back              | 0.984         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>1.182</b>         | <b>1.495</b>         | <b>1.398</b>         | <b>1.444</b>         | <b>1.546</b>         | <b>1.449</b>         |
|           | LTE Band 38_Ant 0C | Front             | 0.217         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.424</b>         | <b>0.584</b>         | <b>0.712</b>         | <b>0.438</b>         | <b>0.511</b>         | <b>0.360</b>         |
|           |                    | Back              | 0.350         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.548</b>         | <b>0.861</b>         | <b>0.764</b>         | <b>0.810</b>         | <b>0.912</b>         | <b>0.815</b>         |
|           | LTE Band 41_Ant 0C | Front             | 0.182         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.389</b>         | <b>0.549</b>         | <b>0.677</b>         | <b>0.403</b>         | <b>0.476</b>         | <b>0.325</b>         |
|           |                    | Back              | 0.343         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.541</b>         | <b>0.854</b>         | <b>0.757</b>         | <b>0.803</b>         | <b>0.905</b>         | <b>0.808</b>         |
|           | LTE Band 71_Ant 0C | Front             | 0.283         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | <b>0.490</b>         | <b>0.650</b>         | <b>0.778</b>         | <b>0.504</b>         | <b>0.577</b>         | <b>0.426</b>         |
|           |                    | Back              | 0.385         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | <b>0.583</b>         | <b>0.896</b>         | <b>0.799</b>         | <b>0.845</b>         | <b>0.947</b>         | <b>0.850</b>         |

**<WWAN 1 antenna>**

| WWAN Band |                   | Exposure Position | 1             | 2                 | 3                 | 4               | 5               | 6               | 7                   | 8                 | 1+3                  | 1+7                  | 1+4+6                | 1+5+6                | 1+6+8                | 1+2+5                |
|-----------|-------------------|-------------------|---------------|-------------------|-------------------|-----------------|-----------------|-----------------|---------------------|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|           |                   |                   | WWAN          | 2.4GHz WLAN Ant 2 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 4 | 5GHz WLAN Ant 5 | Bluetooth Ant 2 | 2.4GHz WLAN Ant 2+4 | 5GHz WLAN Ant 4+5 | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) |
|           |                   |                   | 1g SAR (W/kg) | 1g SAR (W/kg)     | 1g SAR (W/kg)     | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)   | 1g SAR (W/kg)       | 1g SAR (W/kg)     | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        | 1g SAR (W/kg)        |
| GSM       | GSM850_Ant 1      | Front             | 0.347         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.554                | 0.714                | 0.842                | 0.568                | 0.641                | 0.490                |
|           |                   | Back              | 0.433         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.631                | 0.944                | 0.847                | 0.893                | 0.995                | 0.898                |
|           | GSM1900_Ant 1     | Front             | 0.788         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.995                | 1.155                | 1.283                | 1.009                | 1.082                | 0.931                |
|           |                   | Back              | 0.975         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 1.173                | 1.486                | 1.389                | 1.435                | 1.537                | 1.440                |
| WCDMA     | WCDMA II_Ant 1    | Front             | 0.822         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 1.029                | 1.189                | 1.317                | 1.043                | 1.116                | 0.965                |
|           |                   | Back              | 0.954         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 1.152                | 1.465                | 1.368                | 1.414                | 1.516                | 1.419                |
|           | WCDMA IV_Ant 1    | Front             | 0.813         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 1.020                | 1.180                | 1.308                | 1.034                | 1.107                | 0.956                |
|           |                   | Back              | 0.968         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 1.166                | 1.479                | 1.382                | 1.428                | 1.530                | 1.433                |
|           | WCDMA V_Ant 1     | Front             | 0.419         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.626                | 0.786                | 0.914                | 0.640                | 0.713                | 0.562                |
|           |                   | Back              | 0.529         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.727                | 1.040                | 0.943                | 0.989                | 1.091                | 0.994                |
| LTE       | LTE Band 7_Ant 1  | Front             | 0.684         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.891                | 1.051                | 1.179                | 0.905                | 0.978                | 0.827                |
|           |                   | Back              | 0.661         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.859                | 1.172                | 1.075                | 1.121                | 1.223                | 1.126                |
|           | LTE Band 12_Ant 1 | Front             | 0.238         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.445                | 0.605                | 0.733                | 0.459                | 0.532                | 0.381                |
|           |                   | Back              | 0.267         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.465                | 0.778                | 0.681                | 0.727                | 0.829                | 0.732                |
|           | LTE Band 13_Ant 1 | Front             | 0.425         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.632                | 0.792                | 0.920                | 0.646                | 0.719                | 0.568                |
|           |                   | Back              | 0.502         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.700                | 1.013                | 0.916                | 0.962                | 1.064                | 0.967                |
|           | LTE Band 25_Ant 1 | Front             | 0.847         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 1.054                | 1.214                | 1.342                | 1.068                | 1.141                | 0.990                |
|           |                   | Back              | 0.978         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 1.176                | 1.489                | 1.392                | 1.438                | 1.540                | 1.443                |
|           | LTE Band 26_Ant 1 | Front             | 0.363         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.570                | 0.730                | 0.858                | 0.584                | 0.657                | 0.506                |
|           |                   | Back              | 0.505         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.703                | 1.016                | 0.919                | 0.965                | 1.067                | 0.970                |
|           | LTE Band 41_Ant 1 | Front             | 0.689         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.896                | 1.056                | 1.184                | 0.910                | 0.983                | 0.832                |
|           |                   | Back              | 0.770         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.968                | 1.281                | 1.184                | 1.230                | 1.332                | 1.235                |
|           | LTE Band 66_Ant 1 | Front             | 0.890         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 1.097                | 1.257                | 1.385                | 1.111                | 1.184                | 1.033                |
|           |                   | Back              | 0.963         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 1.161                | 1.474                | 1.377                | 1.423                | 1.525                | 1.428                |
|           | LTE Band 71_Ant 1 | Front             | 0.206         | 0.084             | 0.207             | 0.333           | 0.059           | 0.162           | 0.367               | 0.132             | 0.413                | 0.573                | 0.701                | 0.427                | 0.500                | 0.349                |
|           |                   | Back              | 0.247         | 0.175             | 0.198             | 0.244           | 0.290           | 0.170           | 0.511               | 0.392             | 0.445                | 0.758                | 0.661                | 0.707                | 0.809                | 0.712                |

## 16.4 Product Specific Exposure Conditions

### <Standalone>

#### Remark:

1. In standalone mode, the WWAN operating will not transmit simultaneous with WLAN/BT transmitter
2. According to KDB 941225 D06 v02r01 and KDB 648474 D04v01r03, for (-) SAR was excluded, due to transmitting antenna located larger 25mm from that surface or hotspot SAR was < 1.2W/kg.

### <Standalone SISO consideration>

| Exposure Position | 2                                         | 3                                         | 4                                       | 5                                       | 6                                       | 2+5<br>Summed<br>10g SAR<br>(W/kg) | 4+6<br>Summed<br>10g SAR<br>(W/kg) | 5+6<br>Summed<br>10g SAR<br>(W/kg) |
|-------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|                   | 2.4GHz WLAN<br>Ant 2<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 5<br>10g SAR<br>(W/kg) | Bluetooth<br>Ant 2<br>10g SAR<br>(W/kg) |                                    |                                    |                                    |
| Front             | -                                         | -                                         | 1.704                                   | 0.330                                   | -                                       | 0.330                              | 1.704                              | 0.330                              |
| Back              | -                                         | -                                         | 1.278                                   | 1.973                                   | -                                       | 1.973                              | 1.278                              | 1.973                              |
| Left side         | -                                         | -                                         | -                                       | 0.635                                   | -                                       | 0.635                              | 0.000                              | 0.635                              |
| Right side        | -                                         | -                                         | 0.097                                   | -                                       | -                                       | 0.000                              | 0.097                              | 0.000                              |
| Top side          | -                                         | -                                         | 0.883                                   | 0.320                                   | -                                       | 0.320                              | 0.883                              | 0.320                              |
| Bottom side       | -                                         | -                                         | -                                       | -                                       | -                                       | 0.000                              | 0.000                              | 0.000                              |

### <Standalone MIMO consideration>

| Exposure Position | 2                                         | 3                                         | 4                                       | 5                                       | 6                                       | 2+3<br>Summed<br>10g SAR (W/kg) | 4+5+6<br>Summed<br>10g SAR (W/kg) |
|-------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------|-----------------------------------|
|                   | 2.4GHz WLAN<br>Ant 2<br>10g SAR<br>(W/kg) | 2.4GHz WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz WLAN<br>Ant 5<br>10g SAR<br>(W/kg) | Bluetooth<br>Ant 2<br>10g SAR<br>(W/kg) |                                 |                                   |
| Front             | -                                         | -                                         | 1.704                                   | 0.447                                   | -                                       | 0.000                           | 2.151                             |
| Back              | -                                         | -                                         | 1.278                                   | 2.612                                   | -                                       | 0.000                           | 3.890                             |
| Left side         | 3.495                                     | -                                         | -                                       | 0.867                                   | -                                       | 3.495                           | 0.867                             |
| Right side        | -                                         | -                                         | 0.097                                   | -                                       | -                                       | 0.000                           | 0.097                             |
| Top side          | -                                         | -                                         | 0.883                                   | 0.437                                   | -                                       | 0.000                           | 1.320                             |
| Bottom side       | -                                         | -                                         | -                                       | -                                       | -                                       | 0.000                           | 0.000                             |

### <Simultaneous Transmission is active>

#### Remark:

1. According to KDB 941225 D06 v02r01 and KDB 648474 D04v01r03, for (-) SAR was excluded, due to transmitting antenna located larger 25mm from that surface or hotspot SAR was < 1.2W/kg when WWAN operating and WLAN/BT operating is active at the same time.

| Exposure Position | 1                         | 2                                            | 3                                            | 4                                          | 5                                          | 6                                       | 7                                              | 8                                            | 1+3<br>Summed<br>10g SAR<br>(W/kg) | 1+7<br>Summed<br>10g SAR<br>(W/kg) | 1+4+6<br>Summed<br>10g SAR<br>(W/kg) | 1+5+6<br>Summed<br>10g SAR<br>(W/kg) | 1+6+8<br>Summed<br>10g SAR<br>(W/kg) | 1+2+5<br>Summed<br>10g SAR<br>(W/kg) |
|-------------------|---------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                   | WWAN<br>10g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 2<br>10g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 4<br>10g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 5<br>10g SAR<br>(W/kg) | Bluetooth<br>Ant 2<br>10g SAR<br>(W/kg) | 2.4GHz<br>WLAN<br>Ant 2+4<br>10g SAR<br>(W/kg) | 5GHz<br>WLAN<br>Ant 4+5<br>10g SAR<br>(W/kg) |                                    |                                    |                                      |                                      |                                      |                                      |
| Front             | -                         | -                                            | -                                            | 1.704                                      | 0.330                                      | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 1.704                                | 0.330                                | 0.000                                | 0.330                                |
| Back              | -                         | -                                            | -                                            | 1.278                                      | 1.973                                      | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 1.278                                | 1.973                                | 0.000                                | 1.973                                |
| Left side         | -                         | -                                            | -                                            | -                                          | 0.635                                      | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 0.000                                | 0.635                                | 0.000                                | 0.635                                |
| Right side        | -                         | -                                            | -                                            | 0.097                                      | -                                          | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 0.097                                | 0.000                                | 0.000                                | 0.000                                |
| Top side          | -                         | -                                            | -                                            | 0.883                                      | 0.320                                      | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 0.883                                | 0.320                                | 0.000                                | 0.320                                |
| Bottom side       | -                         | -                                            | -                                            | -                                          | -                                          | -                                       | -                                              | -                                            | 0.000                              | 0.000                              | 0.000                                | 0.000                                | 0.000                                | 0.000                                |

## **17. Supplemental Antenna tuner tests results**

### **General Note:**

1. This device implements antenna tuning techniques in the GSM850/1900, WCDMA B2/4/5, LTE B7/12/13/25/26/41/66/71. SAR test proposal was measured according to the normally required SAR configurations with the tuner active and worst tune state (auto tune) was used for SAR testing and this design will provide the highest power at different user scenarios and would not influence to the antenna characteristics other than impedance matching.
2. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values.
3. To evaluate all of the tuner states, the 144 tuner states are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination.
4. The device supports LTE B5/B26, B2/B25, B4/B66, B12/17 and B38/B41. Since the supported frequency span for LTE B5/B2/B4/B17/B38 falls completely within the supported frequency span for LTE B26/B25/B66/B12/B41, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR was only assessed for LTE B26/B25/B66/B12/B41. The single point SAR time-sweep measurements were treated independently for each supported ACL frequency band. For the LTE B5/B2/B4/B17/B38 single point SAR measurement selected the highest measured SAR configuration and exposure condition of LTE B26/B25/B66/B12/B41.
5. According to TCBC 201904 workshop, total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
6. According to TCBC 201904 workshop, if any single point SAR measurement result is  $> 1.2 \text{ W/kg}$  for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
7. The tuner state was established remotely through Wi-Fi so that the device is not moved for the entire series of single point SAR for the tuner states in each combination (band, mode, exposure conditions).



## &lt;Ant 1 Tuner SAR results&gt;

| Head                               |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------|------------------------|--------------------|---------|------------|--------------|---------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 0     | 13    | 26    | 39    | 52    | 65    | 78    | 91    | 104   | 117   | 130   | 143   |
| GSM850                             | GPRS (4 Tx slots)      | 836.4              | 189     | N/A        | N/A          | Right Cheek   | 0 mm    | 0.768                        | 1.146                              | 0.033 | 0.336 | 0.476 | 0.016 | 0.014 | 0.235 | 1.127 | 0.170 | 0.144 | 0.524 | 0.808 | 1.138 |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 1     | 14    | 27    | 40    | 53    | 66    | 79    | 92    | 105   | 118   | 131   |       |
| GSM1900                            | GPRS (4 Tx slots)      | 1909.8             | 810     | N/A        | N/A          | Right Cheek   | 0 mm    | 0.735                        | 0.911                              | 0.598 | 0.895 | 0.905 | 0.492 | 0.543 | 0.861 | 0.291 | 0.729 | 0.854 | 0.901 | 0.908 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 2     | 15    | 28    | 41    | 54    | 67    | 80    | 93    | 106   | 119   | 132   |       |
| WCDMA B2                           | RMC12.2K               | 1880               | 9400    | N/A        | N/A          | Right Cheek   | 0mm     | 0.907                        | 1.492                              | 1.486 | 0.904 | 0.736 | 1.237 | 0.997 | 1.009 | 1.297 | 1.266 | 1.335 | 1.273 | 1.281 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.584                              | 1.279                  | 1.486              | 1.488   | 0.965      | 1.441        | 0.517         | 1.393   | 0.488                        | 0.498                              | 0.412 | 1.088 | 0.146 | 0.984 | 1.412 | 0.904 | 0.593 | 0.155 | 0.212 | 1.012 | 1.012 | 0.755 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 1.031                              | 0.803                  | 0.374              | 0.546   | 1.25       | 0.965        | 0.736         | 0.384   | 1.031                        | 1.174                              | 1.031 | 0.336 | 0.727 | 0.193 | 0.231 | 0.241 | 0.631 | 0.269 | 0.66  | 1.237 | 1.393 | 1.26  |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 0.631                              | 0.25                   | 1.193              | 1.479   | 0.269      | 0.708        | 1.269         | 0.488   | 1.079                        | 1.422                              | 0.997 | 1.441 | 0.679 | 0.708 | 0.317 | 1.241 | 1.46  | 0.127 | 0.736 | 0.565 | 1.479 | 0.26  |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 1.184                              | 1.009                  | 1.231              | 0.365   | 0.812      | 0.327        | 1.003         | 0.688   | 1.079                        | 0.803                              | 0.908 | 1.212 | 1.374 | 0.46  | 1.297 | 0.288 | 1.155 | 0.26  | 0.431 | 1.26  | 0.546 | 1.136 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 1.146                              | 0.346                  | 0.888              | 1.393   | 1.165      | 1.266        | 1.46          | 1.269   | 0.069                        | 0.422                              | 0.955 | 0.327 | 1.374 | 0.488 | 1.117 | 0.831 | 0.927 | 1.269 | 1.335 | 1.155 | 0.946 | 1.346 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121   | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 0.86                               | 1.298                  | 0.708              | 0.517   | 0.279      | 0.574        | 0.765         | 1.45    | 1.184                        | 1.273                              | 0.955 | 1.441 | 1.441 | 0.698 | 0.184 | 0.755 | 0.641 | 0.488 | 1.498 | 0.403 | 0.108 | 1.346 |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143   |       |       |       |       |       |       |       |       |       |       |
| 1.281                              | 0.317                  | 1.212              | 0.65    | 0.441      | 0.517        | 1.422         | 0.212   | 0.774                        | 1.279                              | 0.355 | 1.003 |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 3     | 16    | 29    | 42    | 55    | 68    | 81    | 94    | 107   | 120   | 133   |       |
| WCDMA B4                           | RMC12.2K               | 1732.6             | 1413    | N/A        | N/A          | Right Cheek   | 0mm     | 0.853                        | 1.352                              | 1.341 | 0.421 | 0.725 | 1.293 | 0.678 | 0.834 | 1.348 | 1.347 | 1.038 | 1.35  | 1.343 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.149                              | 1.149                  | 1.348              | 1.341   | 0.121      | 1.13         | 0.864         | 1.226   | 0.94                         | 0.788                              | 0.654 | 0.168 | 0.083 | 1.102 | 0.959 | 0.826 | 0.421 | 0.711 | 0.749 | 0.702 | 0.321 | 0.807 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.33                               | 1.321                  | 0.426              | 0.73    | 0.473      | 0.397        | 0.13          | 0.725   | 0.54                         | 1.235                              | 1.226 | 0.407 | 0.949 | 0.73  | 0.616 | 0.168 | 0.54  | 1.111 | 0.997 | 0.911 | 1.293 | 0.711 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 0.93                               | 0.254                  | 1.349              | 0.235   | 1.245      | 0.473        | 0.073         | 0.464   | 0.521                        | 1.197                              | 0.816 | 0.678 | 0.416 | 0.873 | 0.73  | 0.226 | 0.749 | 0.673 | 1.349 | 1.302 | 0.511 | 0.807 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 0.207                              | 0.616                  | 0.834              | 0.816   | 0.407      | 1.321        | 1.149         | 0.111   | 0.988                        | 0.645                              | 0.302 | 0.588 | 0.302 | 0.759 | 0.445 | 1.348 | 1.264 | 0.673 | 0.178 | 1.216 | 0.635 | 0.873 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 1.083                              | 0.159                  | 0.473              | 0.521   | 0.683      | 0.835        | 1.347         | 0.492   | 0.597                        | 0.216                              | 0.559 | 0.626 | 1.34  | 1.378 | 1.302 | 0.521 | 0.407 | 0.254 | 0.759 | 1.038 | 0.226 | 1.216 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121   | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 1.311                              | 0.188                  | 1.302              | 0.759   | 0.645      | 1.064        | 1.102         | 0.788   | 0.921                        | 0.207                              | 1.35  | 0.245 | 0.721 | 0.149 | 0.34  | 0.902 | 1.302 | 0.311 | 0.968 | 1.14  | 0.616 | 0.359 |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143   |       |       |       |       |       |       |       |       |       |       |
| 1.264                              | 1.343                  | 0.635              | 1.083   | 0.397      | 0.959        | 0.749         | 0.407   | 1.34                         | 0.664                              | 0.53  | 1.035 |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 4     | 17    | 30    | 43    | 56    | 69    | 82    | 95    | 108   | 121   | 134   |       |
| WCDMA B5                           | RMC12.2K               | 836.4              | 4182    | N/A        | N/A          | Right Cheek   | 0 mm    | 0.842                        | 1.021                              | 0.141 | 0.353 | 0.006 | 0.056 | 0.094 | 0.442 | 0.039 | 0.398 | 0.387 | 0.867 | 1.019 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 5     | 18    | 31    | 44    | 57    | 70    | 83    | 96    | 109   | 122   | 135   |       |
| LTE Band 7                         | QPSK                   | 2560               | 21350   | 1          | 99           | Right Tilted  | 0 mm    | 0.961                        | 1.872                              | 1.86  | 1.777 | 1.868 | 1.778 | 1.178 | 1.649 | 1.722 | 1.525 | 1.002 | 1.133 | 1.58  |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.746                              | 1.308                  | 0.822              | 0.422   | 0.403      | 1.86         | 1.137         | 0.47    | 1.013                        | 0.241                              | 0.937 | 1.337 | 1.622 | 1.489 | 1.86  | 1.546 | 0.47  | 0.089 | 1.777 | 1.432 | 1.146 | 1.394 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.68                               | 0.708                  | 0.851              | 1.194   | 1.089      | 0.527        | 0.46          | 0.099   | 0.889                        | 1.868                              | 0.708 | 1.441 | 0.146 | 1.641 | 0.194 | 1.546 | 0.394 | 1.822 | 1.632 | 0.975 | 1.737 | 1.603 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 1.778                              | 0.927                  | 1.708              | 0.67    | 1.013      | 0.175        | 0.641         | 0.26    | 1.584                        | 1.051                              | 1.232 | 0.127 | 1.851 | 1.178 | 0.708 | 1.508 | 1.432 | 1.48  | 0.194 | 1.06  | 0.175 | 0.67  |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 1.537                              | 0.175                  | 0.194              | 0.346   | 1.649      | 1.08         | 0.613         | 1.232   | 1.794                        | 1.213                              | 0.651 | 1.746 | 1.527 | 1.737 | 1.241 | 1.527 | 1.441 | 1.722 | 0.737 | 1.165 | 1.451 | 1.699 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 0.641                              | 1.184                  | 1.66               | 1.337   | 1.784      | 0.575        | 1.718         | 1.813   | 1.525                        | 1.403                              | 1.775 | 1.308 | 1.28  | 0.403 | 0.68  | 0.918 | 1.632 | 1.841 | 1.603 | 1.422 | 0.899 | 1.002 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121   | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 1.546                              | 1.518                  | 0.832              | 0.394   | 0.784      | 1.194        | 1.422         | 1.184   | 0.365                        | 1.165                              | 0.241 | 0.841 | 1.133 | 1.117 | 1.612 | 0.65  | 1.45  | 1.393 | 1.24  | 0.193 | 1.021 | 0.136 |



# FCC SAR TEST REPORT

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|                                    |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------|------------------------|--------------------|---------|------------|--------------|---------------|---------|------------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143   |       |       |       |       |       |       |       |       |       |       |
| 0.259                              | 0.164                  | 0.421              | 1.58    | 1.098      | 0.469        | 0.088         | 1.288   | 0.25                         | 0.317                              | 1.212 | 0.288 |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 6     | 19    | 32    | 45    | 58    | 71    | 84    | 97    | 110   | 123   | 136   |       |
| LTE Band 12                        | QPSK                   | 707.5              | 23095   | 1          | 0            | Right Cheek   | 0 mm    | 0.935                        | 1.145                              | 0.46  | 0.763 | 0.017 | 0.099 | 0.096 | 0.012 | 0.039 | 0.315 | 0.298 | 0.077 | 0.002 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 7     | 20    | 33    | 46    | 59    | 72    | 85    | 98    | 111   | 124   | 137   |       |
| LTE Band 13                        | QPSK                   | 782                | 23230   | 1          | 0            | Right Cheek   | 0 mm    | 0.937                        | 1.197                              | 0.261 | 0.442 | 0.023 | 0.314 | 0.037 | 0.166 | 0.162 | 1.201 | 0.498 | 0.238 | 0.441 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 8     | 21    | 34    | 47    | 60    | 73    | 86    | 99    | 112   | 125   | 138   |       |
| LTE Band 25                        | QPSK                   | 1880               | 26340   | 50         | 0            | Right Cheek   | 0mm     | 0.932                        | 1.696                              | 1.602 | 0.439 | 0.997 | 0.982 | 1.397 | 1.445 | 1.441 | 1.272 | 1.498 | 1.303 | 1.359 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.456                              | 1.542                  | 1.696              | 0.799   | 0.837      | 0.951        | 0.284         | 1.351   | 1.602                        | 0.77                               | 1.256 | 0.408 | 1.284 | 0.827 | 1.113 | 1.637 | 1.589 | 1.465 | 0.142 | 0.761 | 1.504 | 0.439 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 1.17                               | 0.627                  | 0.494              | 0.713   | 1.151      | 0.551        | 0.618         | 0.999   | 1.465                        | 0.094                              | 1.113 | 1.637 | 0.997 | 0.389 | 1.399 | 0.532 | 1.18  | 1.608 | 0.465 | 0.142 | 1.599 | 1.142 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 1.427                              | 1.132                  | 1.218              | 0.982   | 1.17       | 1.456        | 0.208         | 0.123   | 0.189                        | 1.627                              | 0.094 | 1.37  | 1.104 | 1.284 | 1.17  | 1.199 | 1.397 | 0.97  | 1.313 | 1.608 | 1.142 | 0.704 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 1.465                              | 0.751                  | 1.094              | 0.704   | 1.484      | 0.894        | 1.427         | 1.445   | 1.17                         | 0.789                              | 1.38  | 0.837 | 1.504 | 1.456 | 1.484 | 1.599 | 0.408 | 1.37  | 0.846 | 0.437 | 1.441 | 1.551 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 0.561                              | 0.837                  | 0.332              | 0.58    | 1.065      | 0.656        | 0.151         | 1.627   | 1.323                        | 1.113                              | 0.865 | 1.272 | 1.084 | 0.704 | 0.113 | 0.399 | 0.342 | 0.942 | 0.361 | 1.418 | 1.189 | 1.199 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121   | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 1.437                              | 1.075                  | 1.498              | 1.57    | 0.656      | 1.037        | 0.151         | 1.304   | 1.304                        | 0.246                              | 1.408 | 0.551 | 0.818 | 0.294 | 0.323 | 1.303 | 1.656 | 1.342 | 1.094 | 0.484 | 0.465 | 1.656 |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143   |       |       |       |       |       |       |       |       |       |       |
| 1.027                              | 0.104                  | 1.427              | 1.046   | 1.656      | 1.18         | 1.359         | 1.304   | 1.246                        | 0.523                              | 1.465 | 0.304 |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 9     | 22    | 35    | 48    | 61    | 74    | 87    | 100   | 113   | 126   | 139   |       |
| LTE Band 26                        | QPSK                   | 831.5              | 26865   | 1          | 0            | Right Cheek   | 0 mm    | 0.841                        | 1.042                              | 0.23  | 0.389 | 0.198 | 0.504 | 0.054 | 0.037 | 0.28  | 1.063 | 0.115 | 0.309 | 0.678 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 10    | 23    | 36    | 49    | 62    | 75    | 88    | 101   | 114   | 127   | 140   |       |
| LTE Band 41                        | QPSK                   | 2506               | 39750   | 1          | 0            | Right Tilted  | 0 mm    | 0.859                        | 1.423                              | 1.293 | 1.265 | 0.975 | 1.101 | 1.181 | 1.213 | 1.261 | 0.899 | 0.963 | 1.225 | 0.945 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.764                              | 0.831                  | 1.392              | 1.24    | 1.183      | 0.802        | 0.573         | 0.621   | 0.145                        | 1.316                              | 1.293 | 0.478 | 0.145 | 0.478 | 1.078 | 0.116 | 0.192 | 1.354 | 1.088 | 0.726 | 1.259 | 0.526 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.373                              | 1.265                  | 0.954              | 0.611   | 0.097      | 0.726        | 1.326         | 1.116   | 0.611                        | 1.373                              | 0.707 | 0.069 | 0.954 | 0.383 | 0.975 | 0.25  | 0.973 | 0.164 | 1.383 | 0.926 | 0.983 | 1.421 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 0.564                              | 0.973                  | 1.183              | 0.535   | 1.059      | 1.101        | 0.992         | 0.192   | 0.592                        | 0.773                              | 1.354 | 1.078 | 1.135 | 0.545 | 0.573 | 0.526 | 0.621 | 0.897 | 1.181 | 0.707 | 0.097 | 0.335 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 0.916                              | 1.269                  | 0.859              | 0.488   | 0.107      | 1.05         | 0.269         | 0.545   | 0.164                        | 1.213                              | 0.135 | 0.611 | 0.973 | 0.088 | 0.097 | 1.069 | 0.269 | 0.897 | 0.821 | 1.011 | 0.478 | 0.602 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 1.261                              | 0.478                  | 1.173              | 0.583   | 0.078      | 0.516        | 0.211         | 0.745   | 0.726                        | 1.183                              | 0.211 | 0.907 | 0.24  | 0.899 | 1.392 | 1.392 | 0.478 | 0.992 | 0.088 | 0.554 | 0.231 | 0.945 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121   | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 0.897                              | 0.726                  | 1.04               | 0.202   | 0.963      | 1.069        | 1.24          | 0.783   | 0.107                        | 0.164                              | 0.85  | 1.135 | 0.992 | 0.831 | 0.364 | 1.278 | 0.907 | 1.225 | 0.621 | 0.707 | 0.088 | 0.288 |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143   |       |       |       |       |       |       |       |       |       |       |
| 0.716                              | 1.421                  | 0.85               | 0.859   | 1.05       | 1.421        | 0.392         | 0.126   | 0.945                        | 0.602                              | 0.602 | 0.288 |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 11    | 24    | 37    | 50    | 63    | 76    | 89    | 102   | 115   | 128   | 141   |       |
| LTE Band 66                        | QPSK                   | 1720               | 132072  | 1          | 0            | Right Cheek   | 0 mm    | 0.819                        | 1.011                              | 0.762 | 0.831 | 0.935 | 1.002 | 0.454 | 0.868 | 0.923 | 0.921 | 0.965 | 0.901 | 0.849 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 12    | 25    | 38    | 51    | 64    | 77    | 90    | 103   | 116   | 129   | 142   |       |
| LTE Band 71                        | QPSK                   | 680.5              | 133297  | 1          | 0            | Right Cheek   | 0 mm    | 0.789                        | 1.655                              | 0.932 | 1.243 | 0.337 | 0.007 | 0.543 | 0.141 | 1.544 | 0.006 | 0.039 | 0.402 | 0.366 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |       |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 0.186                              | 1.405                  | 0.158              | 0.291   | 1.491      | 1.224        | 1.434         | 0.777   | 1.586                        | 1.386                              | 0.386 | 0.082 | 0.932 | 1.177 | 0.558 | 1.167 | 0.31  | 1.52  | 0.443 | 0.567 | 0.224 | 0.51  |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.863                              | 1.596                  | 0.939              | 1.243   | 0.32       | 0.815        | 1.101         | 0.167   | 1.443                        | 0.234                              | 0.205 | 0.615 | 1.196 | 1.386 | 0.52  | 1.177 | 0.337 | 0.71  | 0.405 | 0.196 | 0.463 | 0.834 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 0.986                              | 0.72                   | 0.243              | 0.377   | 1.453      | 1.129        | 1.367         | 0.007   | 0.596                        | 1.596                              | 0.596 | 1.52  | 1.586 | 1.158 | 0.986 | 0.253 | 1.634 | 0.929 | 0.434 | 0.396 | 0.543 | 0.596 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77    | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 0.282                              | 0.786                  | 1.101              | 0.139   | 1.386      | 1.529        | 0.691         | 1.463   | 0.396                        | 1.548                              | 0.377 | 0.141 | 1.053 | 0.843 | 1.139 | 0.796 | 0.996 | 0.843 | 0.339 | 0.739 | 0.491 | 0.91  |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99    | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 0.977                              | 0.748                  | 1.544              | 1.634   | 1.386      | 1.31         | 1.082         | 1.529   | 0.948                        | 1.453                              | 1.434 | 0.51  | 0.643 | 0.51  | 1.329 | 0.006 | 1.577 | 1.101 | 0.129 | 0.605 | 1.443 | 1.082 |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|                                    |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |        |       |       |       |       |       |       |       |       |  |
|------------------------------------|------------------------|--------------------|---------|------------|--------------|---------------|---------|------------------------------|------------------------------------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121    | 122   | 123    | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |  |
| 0.434                              | 0.196                  | 1.567              | 1.463   | 0.748      | 1.015        | 0.039         | 0.196   | 1.234                        | 1.415                              | 0.405 | 1.005  | 0.139 | 0.472  | 1.272 | 1.091 | 0.691 | 0.958 | 1.167 | 0.402 | 0.491 | 0.539 |  |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143    |       |        |       |       |       |       |       |       |       |       |  |
| 0.52                               | 0.082                  | 0.405              | 0.929   | 0.786      | 0.615        | 0.691         | 1.139   | 1.529                        | 1.043                              | 0.366 | 0.567  |       |        |       |       |       |       |       |       |       |       |  |
| Body                               |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |        |       |       |       |       |       |       |       |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 0     | 13     | 26    | 39     | 52    | 65    | 78    | 91    | 104   | 117   | 130   | 143   |  |
| GSM850                             | GPRS (4 Tx slots)      | 848.8              | 251     | N/A        | N/A          | Back          | 10mm    | 0.365                        | 0.511                              | 0.323 | 0.416  | 0.02  | 0.003  | 0.03  | 0.02  | 0.134 | 0.08  | 0.38  | 0.216 | 0.372 | 0.219 |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 1     | 14     | 27    | 40     | 53    | 66    | 79    | 92    | 105   | 118   | 131   |       |  |
| GSM1900                            | GPRS (4 Tx slots)      | 1880               | 661     | N/A        | N/A          | Top Side      | 10mm    | 0.748                        | 1.12                               | 1.162 | 0.925  | 0.677 | 1.022  | 0.38  | 1.01  | 0.807 | 1.025 | 0.839 | 1.076 | 0.871 |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 2     | 15     | 28    | 41     | 54    | 67    | 80    | 93    | 106   | 119   | 132   |       |  |
| WCDMA B2                           | RMC12.2K               | 1880               | 9400    | N/A        | N/A          | Back          | 10mm    | 0.866                        | 1.091                              | 1.088 | 0.496  | 0.714 | 1.027  | 0.674 | 0.615 | 0.978 | 0.795 | 0.859 | 0.804 | 0.967 |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 3     | 16     | 29    | 42     | 55    | 68    | 81    | 94    | 107   | 120   | 133   |       |  |
| WCDMA B4                           | RMC12.2K               | 1732.6             | 1413    | N/A        | N/A          | Top Side      | 10 mm   | 1.197                        | 1.196                              | 0.979 | 0.307  | 0.689 | 1.103  | 0.484 | 0.582 | 1.052 | 1.092 | 0.664 | 1.192 | 1.167 |       |  |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |        |       |       |       |       |       |       |       |       |  |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11     | 12    | 13     | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |  |
| 0.327                              | 0.127                  | 0.927              | 0.979   | 0.118      | 1.013        | 0.365         | 0.727   | 1.07                         | 0.67                               | 0.156 | 0.708  | 0.718 | 0.099  | 0.28  | 0.28  | 0.307 | 0.632 | 0.689 | 0.889 | 0.48  | 0.384 |  |
| 21                                 | 22                     | 23                 | 24      | 25         | 26           | 27            | 28      | 29                           | 30                                 | 31    | 32     | 33    | 34     | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    |  |
| 0.384                              | 0.899                  | 1.156              | 0.346   | 0.384      | 0.375        | 1.137         | 0.623   | 0.689                        | 0.527                              | 0.537 | 1.175  | 0.756 | 0.137  | 0.87  | 1.099 | 0.384 | 0.718 | 1.061 | 0.88  | 0.756 | 1.103 |  |
| 43                                 | 44                     | 45                 | 46      | 47         | 48           | 49            | 50      | 51                           | 52                                 | 53    | 54     | 55    | 56     | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    |  |
| 0.708                              | 0.156                  | 0.146              | 1.032   | 0.08       | 0.537        | 0.08          | 0.584   | 1.108                        | 0.232                              | 1.004 | 0.699  | 0.484 | 0.87   | 0.308 | 0.223 | 1.165 | 0.699 | 0.261 | 0.908 | 0.775 | 0.289 |  |
| 65                                 | 66                     | 67                 | 68      | 69         | 70           | 71            | 72      | 73                           | 74                                 | 75    | 76     | 77    | 78     | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    |  |
| 0.804                              | 0.975                  | 0.965              | 0.582   | 0.832      | 1.165        | 0.165         | 0.88    | 0.613                        | 0.956                              | 1.032 | 1.156  | 0.499 | 0.223  | 0.899 | 0.08  | 1.052 | 0.08  | 1.07  | 1.156 | 0.965 | 0.099 |  |
| 87                                 | 88                     | 89                 | 90      | 91         | 92           | 93            | 94      | 95                           | 96                                 | 97    | 98     | 99    | 100    | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   |  |
| 0.442                              | 0.994                  | 0.651              | 0.661   | 0.175      | 0.413        | 0.118         | 1.092   | 0.204                        | 0.861                              | 0.889 | 0.899  | 0.937 | 1.013  | 0.175 | 0.308 | 1.061 | 0.423 | 0.204 | 0.27  | 0.664 | 1.118 |  |
| 109                                | 110                    | 111                | 112     | 113        | 114          | 115           | 116     | 117                          | 118                                | 119   | 120    | 121   | 122    | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   |  |
| 0.965                              | 1.023                  | 0.089              | 0.232   | 0.87       | 0.099        | 0.965         | 0.794   | 0.242                        | 0.623                              | 0.432 | 1.192  | 0.108 | 0.251  | 0.27  | 0.061 | 1.175 | 0.737 | 1.042 | 0.584 | 0.765 | 0.994 |  |
| 131                                | 132                    | 133                | 134     | 135        | 136          | 137           | 138     | 139                          | 140                                | 141   | 142    | 143   |        |       |       |       |       |       |       |       |       |  |
| 0.337                              | 1.146                  | 1.167              | 0.946   | 0.413      | 1.175        | 0.546         | 0.889   | 1.089                        | 0.823                              | 0.699 | 0.232  | 0.508 |        |       |       |       |       |       |       |       |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 4     | 17     | 30    | 43     | 56    | 69    | 82    | 95    | 108   | 121   | 134   |       |  |
| WCDMA B5                           | RMC12.2K               | 836.4              | 4233    | N/A        | N/A          | Back          | 10 mm   | 0.425                        | 0.591                              | 0.312 | 0.002  | 0.018 | 0.012  | 0.156 | 0.024 | 0.112 | 0.07  | 0.339 | 0.342 | 0.351 |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 5     | 18     | 31    | 44     | 57    | 70    | 83    | 96    | 109   | 122   | 135   |       |  |
| LTE Band 7                         | QPSK                   | 2560               | 21350   | 1          | 99           | Top Side      | 10 mm   | 0.939                        | 1.518                              | 1.416 | 1.39   | 1.35  | 1.457  | 0.823 | 1.481 | 0.821 | 1.496 | 0.838 | 0.778 | 1.063 |       |  |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |        |       |       |       |       |       |       |       |       |  |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11     | 12    | 13     | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |  |
| 0.564                              | 0.221                  | 0.659              | 0.354   | 0.249      | 1.416        | 0.764         | 0.611   | 1.059                        | 1.449                              | 1.316 | 0.583  | 1.221 | 0.126  | 1.316 | 0.954 | 1.097 | 1.506 | 1.39  | 0.545 | 1.326 | 0.145 |  |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33     | 34    | 35     | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |  |
| 0.687                              | 1.297                  | 0.83               | 1.002   | 0.945      | 0.849        | 1.335         | 1.068   | 1.411                        | 1.35                               | 1.468 | 0.973  | 1.106 | 0.992  | 0.716 | 1.002 | 1.145 | 1.383 | 0.992 | 0.621 | 0.983 | 1.306 |  |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55     | 56    | 57     | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |  |
| 1.457                              | 0.192                  | 0.335              | 0.706   | 0.64       | 0.516        | 0.954         | 0.564   | 0.497                        | 0.192                              | 0.973 | 1.335  | 0.516 | 0.8213 | 0.621 | 1.421 | 1.164 | 0.83  | 0.697 | 1.468 | 0.764 | 0.535 |  |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77     | 78    | 79     | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |  |
| 0.935                              | 0.335                  | 0.983              | 0.697   | 1.481      | 1.011        | 1.202         | 1.297   | 0.297                        | 0.668                              | 0.649 | 0.402  | 0.897 | 1.135  | 0.916 | 0.497 | 0.64  | 0.821 | 0.964 | 0.945 | 0.078 | 1.487 |  |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99     | 100   | 101    | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |  |
| 1.516                              | 0.945                  | 0.945              | 1.373   | 1.287      | 1.43         | 0.726         | 1.278   | 1.496                        | 0.126                              | 0.649 | 0.878  | 1.202 | 1.116  | 1.278 | 0.716 | 0.954 | 0.745 | 0.821 | 1.23  | 1.145 | 0.838 |  |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121    | 122   | 123    | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |  |
| 0.935                              | 0.945                  | 0.697              | 0.678   | 0.383      | 1.316        | 1.326         | 0.421   | 0.697                        | 0.449                              | 1.087 | 0.287  | 0.778 | 0.916  | 1.421 | 0.754 | 1.326 | 1.202 | 1.202 | 0.211 | 0.764 | 1.249 |  |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143    |       |        |       |       |       |       |       |       |       |       |  |
| 1.097                              | 1.211                  | 1.135              | 1.063   | 1.402      | 1.297        | 1.002         | 0.659   | 0.154                        | 1.487                              | 0.887 | 0.516  |       |        |       |       |       |       |       |       |       |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 6     | 19     | 32    | 45     | 58    | 71    | 84    | 97    | 110   | 123   | 136   |       |  |
| LTE Band 12                        | QPSK                   | 707.5              | 23095   | 1          | 49           | Back          | 10 mm   | 0.235                        | 0.345                              | 0.194 | 0.0001 | 0.048 | 0.002  | 0.011 | 0.003 | 0.148 | 0.02  | 0.17  | 0.07  | 0.101 |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 7     | 20     | 33    | 46     | 59    | 72    | 85    | 98    | 111   | 124   | 137   |       |  |
| LTE Band 13                        | QPSK                   | 782                | 23230   | 1          | 0            | Back          | 10 mm   | 0.438                        | 0.655                              | 0.447 | 0.014  | 0.005 | 0.061  | 0.02  | 0.4   | 0.038 | 0.128 | 0.075 | 0.583 | 0.225 |       |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |        |       |       |       |       |       |       |       |       |  |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 8     | 21     | 34    | 47     | 60    | 73    | 86    | 99    | 112   | 125   | 138   |       |  |
| LTE Band 25                        | QPSK                   | 1905               | 26590   | 50         | 0            | Back          | 10mm    | 0.926                        | 1.413                              | 1.392 | 0.326  | 0.801 | 0.755  | 1.148 | 1.27  | 1.223 | 1.162 | 1.237 | 1.213 | 1.275 |       |  |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |        |       |       |       |       |       |       |       |       |  |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11     | 12    | 13     | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |  |



# FCC SAR TEST REPORT

Report No. : FA8N0620-06A

|                                    |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |       |       |       |       |       |       |       |       |       |
|------------------------------------|------------------------|--------------------|---------|------------|--------------|---------------|---------|------------------------------|------------------------------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.318                              | 1.41                   | 1.409              | 1.243   | 1.174      | 1.349        | 1.318         | 1.293   | 1.387                        | 1.076                              | 1.243 | 0.858  | 1.381 | 1.154 | 1.296 | 0.95  | 0.445 | 0.412 | 0.468 | 0.275 | 0.345 | 0.326 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33     | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.371                              | 0.215                  | 0.764              | 0.719   | 0.794      | 0.504        | 0.658         | 0.618   | 0.692                        | 0.425                              | 0.708 | 0.754  | 0.801 | 0.542 | 0.569 | 0.633 | 0.66  | 0.637 | 1.088 | 0.125 | 1.311 | 0.987 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55     | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 1.149                              | 0.903                  | 0.945              | 0.755   | 0.935      | 1.213        | 0.153         | 0.0125  | 0.117                        | 1.27                               | 0.008 | 1.14   | 0.92  | 1.04  | 0.935 | 0.909 | 1.148 | 0.728 | 1.054 | 1.29  | 0.931 | 0.506 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77     | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 1.501                              | 0.595                  | 0.811              | 0.546   | 1.206      | 0.745        | 1.169         | 1.27    | 0.885                        | 0.567                              | 1.15  | 0.697  | 1.233 | 1.203 | 1.176 | 1.262 | 0.32  | 1.141 | 0.635 | 0.364 | 1.223 | 1.225 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99     | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 0.468                              | 0.608                  | 0.197              | 0.433   | 0.788      | 0.477        | 0.056         | 1.326   | 1.073                        | 0.928                              | 0.711 | 1.162  | 0.833 | 0.557 | 0.064 | 0.253 | 0.185 | 0.755 | 0.291 | 1.132 | 0.971 | 0.949 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121    | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 1.168                              | 0.806                  | 1.237              | 1.208   | 0.457      | 0.784        | 0.116         | 1.047   | 0.987                        | 0.165                              | 1.103 | 0.389  | 0.662 | 0.185 | 0.199 | 1.213 | 1.34  | 1.068 | 0.852 | 0.343 | 0.368 | 1.28  |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143    |       |       |       |       |       |       |       |       |       |       |
| 0.846                              | 0.027                  | 1.119              | 0.782   | 1.312      | 0.963        | 1.275         | 1.077   | 0.978                        | 0.346                              | 1.121 | 0.253  |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 9     | 22     | 35    | 48    | 61    | 74    | 87    | 100   | 113   | 126   | 139   |       |
| LTE Band 26                        | QPSK                   | 831.5              | 26865   | 1          | 0            | Back          | 10 mm   | 0.441                        | 0.621                              | 0.315 | 0.005  | 0.003 | 0.049 | 0.082 | 0.217 | 0.024 | 0.147 | 0.168 | 0.442 | 0.161 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 10    | 23     | 36    | 49    | 62    | 75    | 88    | 101   | 114   | 127   | 140   |       |
| LTE Band 41                        | QPSK                   | 2506               | 39750   | 1          | 0            | Top Side      | 10 mm   | 0.969                        | 1.613                              | 0.612 | 1.343  | 1.562 | 1.129 | 1.021 | 0.522 | 0.856 | 1.165 | 1.064 | 0.48  | 0.995 |       |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |               |         |                              |                                    |       |        |       |       |       |       |       |       |       |       |       |       |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6             | 7       | 8                            | 9                                  | 10    | 11     | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    |
| 1.506                              | 0.306                  | 1.277              | 0.972   | 0.268      | 1.239        | 0.325         | 0.734   | 1.401                        | 0.782                              | 0.612 | 1.011  | 0.191 | 0.734 | 0.43  | 0.382 | 0.411 | 0.534 | 0.753 | 0.611 | 1.068 | 1.172 |
| 22                                 | 23                     | 24                 | 25      | 26         | 27           | 28            | 29      | 30                           | 31                                 | 32    | 33     | 34    | 35    | 36    | 37    | 38    | 39    | 40    | 41    | 42    | 43    |
| 0.849                              | 1.343                  | 0.877              | 0.515   | 1.268      | 1.296        | 1.306         | 0.239   | 0.706                        | 1.449                              | 0.477 | 1.544  | 1.22  | 1.572 | 1.562 | 0.534 | 1.353 | 1.382 | 1.277 | 0.791 | 1.087 | 1.163 |
| 44                                 | 45                     | 46                 | 47      | 48         | 49           | 50            | 51      | 52                           | 53                                 | 54    | 55     | 56    | 57    | 58    | 59    | 60    | 61    | 62    | 63    | 64    | 65    |
| 0.63                               | 1.525                  | 1.039              | 0.296   | 0.43       | 1.129        | 0.572         | 0.106   | 1.591                        | 1.03                               | 1.115 | 1.411  | 1.449 | 0.62  | 1.449 | 0.934 | 1.42  | 0.896 | 1.021 | 1.411 | 1.287 | 1.496 |
| 66                                 | 67                     | 68                 | 69      | 70         | 71           | 72            | 73      | 74                           | 75                                 | 76    | 77     | 78    | 79    | 80    | 81    | 82    | 83    | 84    | 85    | 86    | 87    |
| 1.106                              | 0.953                  | 1.23               | 1.125   | 1.477      | 1.344        | 0.344         | 0.134   | 1.506                        | 0.522                              | 1.211 | 1.553  | 0.277 | 0.249 | 0.249 | 0.134 | 0.849 | 1.201 | 0.115 | 0.22  | 1.401 | 0.791 |
| 88                                 | 89                     | 90                 | 91      | 92         | 93           | 94            | 95      | 96                           | 97                                 | 98    | 99     | 100   | 101   | 102   | 103   | 104   | 105   | 106   | 107   | 108   | 109   |
| 0.856                              | 0.906                  | 0.63               | 0.106   | 0.763      | 0.411        | 1.315         | 0.353   | 0.439                        | 0.249                              | 1.249 | 1.601  | 0.668 | 1.165 | 1.087 | 1.182 | 0.363 | 0.42  | 0.572 | 0.696 | 1.391 | 1.439 |
| 110                                | 111                    | 112                | 113     | 114        | 115          | 116           | 117     | 118                          | 119                                | 120   | 121    | 122   | 123   | 124   | 125   | 126   | 127   | 128   | 129   | 130   | 131   |
| 0.649                              | 0.144                  | 1.477              | 0.334   | 1.064      | 1.011        | 1.363         | 0.249   | 0.582                        | 0.506                              | 1.439 | 0.925  | 1.572 | 1.487 | 0.811 | 0.125 | 1.544 | 0.48  | 0.125 | 1.077 | 0.201 | 0.115 |
| 132                                | 133                    | 134                | 135     | 136        | 137          | 138           | 139     | 140                          | 141                                | 142   | 143    |       |       |       |       |       |       |       |       |       |       |
| 0.868                              | 0.334                  | 1.096              | 1.534   | 1.239      | 0.468        | 0.591         | 0.839   | 0.995                        | 0.63                               | 0.658 | 1.449  |       |       |       |       |       |       |       |       |       |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 11    | 24     | 37    | 50    | 63    | 76    | 89    | 102   | 115   | 128   | 141   |       |
| LTE Band 66                        | QPSK                   | 1720               | 132072  | 1          | 0            | Top Side      | 10 mm   | 0.831                        | 0.978                              | 0.353 | 0.528  | 0.406 | 0.657 | 0.638 | 0.935 | 0.661 | 0.799 | 0.647 | 0.824 | 0.618 |       |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |        |       |       |       |       |       |       |       |       |       |       |
|                                    |                        |                    |         |            |              |               |         |                              | Auto-Tune                          | 12    | 25     | 38    | 51    | 64    | 77    | 90    | 103   | 116   | 129   | 142   |       |
| LTE Band 71                        | QPSK                   | 683                | 133322  | 1          | 0            | Back          | 10 mm   | 0.214                        | 0.299                              | 0.065 | 0.0006 | 0.005 | 0.002 | 0.089 | 0.003 | 0.125 | 0.007 | 0.185 | 0.031 | 0.068 |       |

**<Ant 0b Tuner SAR results>**

| Head (Antenna 0b)                  |                        |                    |         |            |              |                  |         |                              |                                    |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
|------------------------------------|------------------------|--------------------|---------|------------|--------------|------------------|---------|------------------------------|------------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|-------|--|--|--|--|
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
|                                    |                        |                    |         |            |              |                  |         |                              | Auto-Tune                          | 0     | 7     | 14     | 21    | 28    | 35     | 42    | 49    | 56     | 63    | 70    | 77     | 84     | 91    | 98     | 105   | 112    | 119   | 126   | 133   | 140   |  |  |  |  |
| GSM1900                            | GPRS (4 Tx slots)      | 1850.2             | 512     | N/A        | N/A          | Right Cheek      | 0 mm    | 0.125                        | 0.145                              | 0.046 | 0.078 | 0.081  | 0.083 | 0.084 | 0.0945 | 0.078 | 0.093 | 0.047  | 0.088 | 0.091 | 0.0907 | 0.089  | 0.089 | 0.115  | 0.114 | 0.122  | 0.111 | 0.142 | 0.116 | 0.079 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| WCDMA B2                           | RM12.2K                | 1880               | 9400    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.275                        | 0.323                              | 0.169 | 0.237 | 0.246  | 0.255 | 0.267 | 0.27   | 0.214 | 0.275 | 0.152  | 0.251 | 0.228 | 0.278  | 0.246  | 0.261 | 0.313  | 0.285 | 0.281  | 0.24  | 0.318 | 0.298 | 0.208 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| WCDMA B4                           | RM12.2K                | 1732.6             | 1413    | N/A        | N/A          | Right Cheek      | 0 mm    | 0.219                        | 0.249                              | 0.188 | 0.166 | 0.162  | 0.158 | 0.2   | 0.105  | 0.127 | 0.066 | 0.038  | 0.195 | 0.159 | 0.24   | 0.101  | 0.145 | 0.178  | 0.113 | 0.204  | 0.073 | 0.142 | 0.136 | 0.059 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 7                         | QPSK                   | 2560               | 21350   | 1          | 99           | Right Cheek      | 0 mm    | 0.731                        | 1.06                               | 0.968 | 1.031 | 1.049  | 1.045 | 1.014 | 0.908  | 0.968 | 0.79  | 0.505  | 1.021 | 0.999 | 0.883  | 0.941  | 0.898 | 1.029  | 0.848 | 0.994  | 1.012 | 0.723 | 0.785 |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 25                        | QPSK                   | 1880               | 26340   | 1          | 0            | Right Cheek      | 0 mm    | 0.259                        | 0.288                              | 0.162 | 0.18  | 0.184  | 0.19  | 0.162 | 0.099  | 0.186 | 0.089 | 0.136  | 0.193 | 0.188 | 0.158  | 0.185  | 0.266 | 0.213  | 0.177 | 0.223  | 0.157 | 0.261 | 0.195 |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 41                        | QPSK                   | 2506               | 39750   | 1          | 99           | Right Cheek      | 0 mm    | 0.453                        | 0.642                              | 0.583 | 0.618 | 0.624  | 0.633 | 0.621 | 0.477  | 0.619 | 0.479 | 0.445  | 0.625 | 0.616 | 0.592  | 0.585  | 0.611 | 0.604  | 0.557 | 0.595  | 0.311 | 0.641 | 0.545 |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 66                        | QPSK                   | 1745               | 132322  | 1          | 0            | Right Cheek      | 0 mm    | 0.209                        | 0.234                              | 0.146 | 0.131 | 0.129  | 0.126 | 0.11  | 0.134  | 0.092 | 0.038 | 0.215  | 0.134 | 0.086 | 0.125  | 0.076  | 0.181 | 0.147  | 0.049 | 0.083  | 0.049 | 0.148 | 0.058 |       |  |  |  |  |
| Body (Antenna 0b)                  |                        |                    |         |            |              |                  |         |                              |                                    |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| GSM1900                            | GPRS (4 Tx slots)      | 1850.2             | 512     | N/A        | N/A          | Back             | 10mm    | 0.722                        | 0.966                              | 0.3   | 0.519 | 0.539  | 0.552 | 0.559 | 0.629  | 0.519 | 0.619 | 0.313  | 0.586 | 0.606 | 0.604  | 0.592  | 0.592 | 0.766  | 0.759 | 0.812  | 0.739 | 0.946 | 0.772 | 0.526 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| WCDMA B2                           | RM12.2K                | 1907.6             | 9538    | N/A        | N/A          | Back             | 10mm    | 0.815                        | 1.03                               | 0.538 | 0.755 | 0.784  | 0.813 | 0.851 | 0.86   | 0.68  | 0.876 | 0.4847 | 0.802 | 0.727 | 0.886  | 0.7844 | 0.832 | 0.998  | 0.908 | 0.896  | 0.765 | 1.014 | 0.95  | 0.663 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| WCDMA B4                           | RM12.2K                | 1732.6             | 1413    | N/A        | N/A          | Bottom Side      | 10 mm   | 0.798                        | 0.975                              | 0.736 | 0.65  | 0.6343 | 0.618 | 0.783 | 0.411  | 0.497 | 0.258 | 0.148  | 0.763 | 0.622 | 0.939  | 0.395  | 0.567 | 0.696  | 0.442 | 0.798  | 0.285 | 0.556 | 0.532 | 0.231 |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 7                         | QPSK                   | 2560               | 21350   | 1          | 99           | Right Side       | 10 mm   | 0.847                        | 1.42                               | 1.296 | 1.381 | 1.405  | 1.399 | 1.358 | 1.216  | 1.29  | 1.072 | 0.676  | 1.367 | 1.338 | 1.182  | 1.263  | 1.202 | 1.378  | 1.136 | 1.331  | 1.093 | 1.355 | 0.968 | 1.051 |  |  |  |  |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |                  |         |                              |                                    |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6                | 7       | 8                            | 9                                  | 10    | 11    | 12     | 13    | 14    | 15     | 16    | 17    | 18     | 19    | 20    | 21     | 22     | 23    | 24     | 25    | 26     | 27    | 28    | 29    | 30    |  |  |  |  |
| 0.351                              | 1.066                  | 0.885              | 1.296   | 1.189      | 0.085        | 0.266            | 0.742   | 0.647                        | 0.685                              | 1.381 | 0.561 | 0.389  | 0.104 | 1.351 | 0.38   | 0.456 | 1.405 | 0.647  | 0.237 | 1.075 | 0.694  | 1.218  | 1.218 | 1.399  | 0.742 | 0.113  | 1.17  | 1.247 | 0.151 | 0.285 |  |  |  |  |
| 31                                 | 32                     | 33                 | 34      | 35         | 36           | 37               | 38      | 39                           | 40                                 | 41    | 42    | 43     | 44    | 45    | 46     | 47    | 48    | 49     | 50    | 51    | 52     | 53     | 54    | 55     | 56    | 57     | 58    | 59    | 60    | 61    |  |  |  |  |
| 1.358                              | 0.732                  | 0.875              | 1.332   | 0.951      | 1.418        | 1.132            | 1.216   | 0.418                        | 0.494                              | 0.828 | 0.799 | 0.332  | 1.247 | 1.29  | 1.161  | 1.37  | 0.189 | 0.466  | 1.047 | 0.228 | 1.072  | 0.532  | 0.628 | 0.494  | 1.38  | 0.58   | 1.199 | 0.676 | 0.38  | 0.466 |  |  |  |  |
| 62                                 | 63                     | 64                 | 65      | 66         | 67           | 68               | 69      | 70                           | 71                                 | 72    | 73    | 74     | 75    | 76    | 77     | 78    | 79    | 80     | 81    | 82    | 83     | 84     | 85    | 86     | 87    | 88     | 89    | 90    | 91    | 92    |  |  |  |  |
| 1.237                              | 1.199                  | 1.085              | 0.951   | 1.367      | 0.075        | 0.104            | 0.799   | 0.789                        | 1.237                              | 1.218 | 1.338 | 0.332  | 0.294 | 0.751 | 1.208  | 1.113 | 1.008 | 1.182  | 0.589 | 0.751 | 0.685  | 1.237  | 0.723 | 0.323  | 1.263 | 0.523  | 1.199 | 0.228 | 0.561 | 0.475 |  |  |  |  |
| 93                                 | 94                     | 95                 | 96      | 97         | 98           | 99               | 100     | 101                          | 102                                | 103   | 104   | 105    | 106   | 107   | 108    | 109   | 110   | 111    | 112   | 113   | 114    | 115    | 116   | 117    | 118   | 119    | 120   | 121   | 122   | 123   |  |  |  |  |
| 1.085                              | 1.202                  | 0.085              | 0.332   | 0.618      | 1.018        | 1.285            | 0.189   | 1.378                        | 1.275                              | 0.161 | 1.008 | 1.142  | 0.085 | 0.618 | 1.136  | 1.389 | 0.17  | 0.123  | 1.228 | 1.304 | 0.847  | 1.331  | 0.666 | 1.247  | 1.113 | 0.77   | 0.247 | 0.951 | 1.093 | 1.342 |  |  |  |  |
| 124                                | 125                    | 126                | 127     | 128        | 129          | 130              | 131     | 132                          | 133                                | 134   | 135   | 136    | 137   | 138   | 139    | 140   | 141   | 142    | 143   |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| 0.361                              | 0.847                  | 0.78               | 0.628   | 1.028      | 1.355        | 1.17             | 0.189   | 1.151                        | 0.856                              | 0.761 | 0.256 | 0.968  | 0.608 | 0.104 | 1.342  | 0.275 | 0.37  | 1.389  | 1.051 |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 25                        | QPSK                   | 1905               | 26590   | 1          | 0            | Back             | 10 mm   | 0.861                        | 1.19                               | 0.669 | 0.743 | 0.761  | 0.785 | 0.669 | 0.409  | 0.768 | 0.567 | 0.561  | 0.797 | 0.776 | 0.652  | 0.764  | 1.099 | 0.882  | 0.731 | 0.921  | 0.648 | 1.078 | 0.805 |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 41                        | QPSK                   | 2636.5             | 41055   | 1          | 0            | Right Side       | 10 mm   | 0.886                        | 1.41                               | 1.281 | 1.357 | 1.37   | 1.39  | 1.363 | 1.047  | 1.359 | 1.052 | 0.977  | 1.372 | 1.352 | 1.302  | 1.284  | 1.341 | 1.326  | 1.223 | 1.3067 | 0.683 | 1.407 | 1.196 |       |  |  |  |  |
| Average Value of Time Sweep (W/kg) |                        |                    |         |            |              |                  |         |                              |                                    |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| 0                                  | 1                      | 2                  | 3       | 4          | 5            | 6                | 7       | 8                            | 9                                  | 10    | 11    | 12     | 13    | 14    | 15     | 16    | 17    | 18     | 19    | 20    | 21     | 22     | 23    | 24     | 25    | 26     | 27    | 28    | 29    | 30    |  |  |  |  |
| 1.074                              | 0.846                  | 0.455              | 0.741   | 0.198      | 1.281        | 0.874            | 0.912   | 0.817                        | 1.388                              | 0.608 | 0.788 | 1.357  | 0.903 | 0.131 | 0.198  | 0.36  | 0.112 | 0.769  | 1.37  | 0.531 | 0.303  | 1.255  | 1.312 | 0.522  | 0.769 | 1.39   | 1.16  | 0.56  | 0.636 | 1.312 |  |  |  |  |
| 31                                 | 32                     | 33                 | 34      | 35         | 36           | 37               | 38      | 39                           | 40                                 | 41    | 42    | 43     | 44    | 45    | 46     | 47    | 48    | 49     | 50    | 51    | 52     | 53     | 54    | 55     | 56    | 57     | 58    | 59    | 60    | 61    |  |  |  |  |
| 0.531                              | 1.331                  | 1.363              | 1.131   | 0.941      | 0.674        | 0.188            | 0.084   | 0.969                        | 1.047                              | 1.027 | 0.141 | 0.617  | 0.998 | 0.941 | 0.188  | 1.359 | 1.369 | 0.988  | 0.446 | 0.741 | 0.398  | 1.103  | 1.052 | 0.655  | 0.531 | 0.941  | 0.074 | 0.788 | 1.312 | 0.977 |  |  |  |  |
| 62                                 | 63                     | 64                 | 65      | 66         | 67           | 68               | 69      | 70                           | 71                                 | 72    | 73    | 74     | 75    | 76    | 77     | 78    | 79    | 80     | 81    | 82    | 83     | 84     | 85    | 86     | 87    | 88     | 89    | 90    | 91    | 92    |  |  |  |  |
| 0.169                              | 1.208                  | 0.217              | 0.427   | 0.655      | 0.969        | 1.372            | 0.874   | 0.665                        | 1.331                              | 1.15  | 0.188 | 1.388  | 1.352 | 0.922 | 0.503  | 0.693 | 1.369 | 0.903  | 1.017 | 1.302 | 0.827  | 0.341  | 1.017 | 0.55   | 0.265 | 0.674  | 1.284 | 0.503 | 0.998 | 0.588 |  |  |  |  |
| 93                                 | 94                     | 95                 | 96      | 97         | 98           | 99               | 100     | 101                          | 102                                | 103   | 104   | 105    | 106   | 107   | 108    | 109   | 110   | 111    | 112   | 113   | 114    | 115    | 116   | 117    | 118   | 119    | 120   | 121   | 122   | 123   |  |  |  |  |
| 0.131                              | 0.484                  | 0.522              | 1.341   | 0.693      | 1.131        | 0.331            | 0.56    | 0.636                        | 0.76                               | 1.326 | 1.284 | 0.96   | 0.093 | 0.065 | 0.998  | 0.684 | 1.223 | 0.741  | 0.855 | 0.931 | 0.865  | 0.36   | 1.265 | 1.3067 | 1.217 | 0.608  | 0.741 | 0.922 | 0.493 | 1.227 |  |  |  |  |
| 124                                | 125                    | 126                | 127     | 128        | 129          | 130              | 131     | 132                          | 133                                | 134   | 135   | 136    | 137   | 138   | 139    | 140   | 141   | 142    | 143   |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| 0.683                              | 0.246                  | 0.95               | 0.96    | 0.522      | 1.027        | 0.236            | 1.407   | 0.503                        | 1.036                              | 1.246 | 0.16  | 1.217  | 0.255 | 1.16  | 1.046  | 1.369 | 1.169 | 1.131  | 1.449 |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| Mode                               | Service/<br>Modulation | Frequency<br>(MHz) | Channel | RB<br>Size | RB<br>Offset | Test<br>Position | Spacing | Measured<br>1g SAR<br>(W/kg) | Average Value of Time Sweep (W/kg) |       |       |        |       |       |        |       |       |        |       |       |        |        |       |        |       |        |       |       |       |       |  |  |  |  |
| LTE Band 66                        | QPSK                   | 1770               | 132572  | 1          | 0            | Bottom Side      | 10 mm   | 0.764                        | 0.929                              | 0.579 | 0.52  | 0.512  | 0.503 | 0.436 | 0.531  | 0.365 | 0.553 | 0.853  | 0.531 | 0.341 | 0.496  | 0.301  | 0.718 | 0.583  | 0.194 | 0.329  | 0.194 | 0.587 | 0.232 |       |  |  |  |  |



## &lt;Ant 0c Tuner SAR results&gt;

| Head (Antenna 0C) |                    |                 |         |         |           |               |         |                        |                                    |       |       |       |        |       |        |       |       |       |
|-------------------|--------------------|-----------------|---------|---------|-----------|---------------|---------|------------------------|------------------------------------|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
|                   |                    |                 |         |         |           |               |         |                        | Auto-Tune                          | 0     | 11    | 22    | 33     | 44    | 55     | 66    | 77    | 88    |
| GSM850            | GPRS (4 Tx slots)  | 848.8           | 251     | N/A     | N/A       | Left Cheek    | 0 mm    | 0.263                  | 0.267                              | 0.018 | 0.243 | 0.265 | 0.096  | 0.125 | 0.109  | 0.026 | 0.154 | 0.092 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 1     | 12    | 23    | 34     | 45    | 56     | 67    | 78    | 89    |
| WCDMA B4          | RMC12.2K           | 1732.6          | 1413    | N/A     | N/A       | Left Cheek    | 0 mm    | 0.397                  | 0.456                              | 0.158 | 0.339 | 0.343 | 0.415  | 0.396 | 0.289  | 0.211 | 0.154 | 0.164 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 2     | 13    | 24    | 35     | 46    | 57     | 68    | 79    | 90    |
| WCDMA B5          | RMC12.2K           | 846.6           | 4233    | N/A     | N/A       | Left Cheek    | 0 mm    | 0.374                  | 0.387                              | 0.137 | 0.379 | 0.378 | 0.308  | 0.251 | 0.091  | 0.058 | 0.001 | 0.021 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 3     | 14    | 25    | 36     | 47    | 58     | 69    | 80    | 91    |
| LTE Band 4        | QPSK               | 1732.5          | 20175   | 1       | 0         | Left Cheek    | 0 mm    | 0.387                  | 0.444                              | 0.295 | 0.372 | 0.387 | 0.346  | 0.375 | 0.172  | 0.252 | 0.072 | 0.068 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 4     | 15    | 26    | 37     | 48    | 59     | 70    | 81    | 92    |
| LTE Band 7        | QPSK               | 2560            | 21350   | 1       | 99        | Left Cheek    | 0 mm    | 0.46                   | 0.652                              | 0.263 | 0.295 | 0.322 | 0.48   | 0.585 | 0.538  | 0.603 | 0.117 | 0.184 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 5     | 16    | 27    | 38     | 49    | 60     | 71    | 82    | 93    |
| LTE Band 12       | QPSK               | 707.5           | 23095   | 1       | 49        | Left Cheek    | 0 mm    | 0.244                  | 0.232                              | 0.11  | 0.09  | 0.142 | 0.14   | 0.102 | 0.05   | 0.04  | 0.02  | 0.12  |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 6     | 17    | 28    | 39     | 50    | 61     | 72    | 83    | 94    |
| LTE Band 13       | QPSK               | 782             | 23230   | 1       | 0         | Left Cheek    | 0 mm    | 0.293                  | 0.288                              | 0.001 | 0.02  | 0.12  | 0.03   | 0.03  | 0.012  | 0.008 | 0.009 | 0.121 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 7     | 18    | 29    | 40     | 51    | 62     | 73    | 84    | 95    |
| LTE Band 26       | QPSK               | 1860            | 26140   | 1       | 0         | Left Cheek    | 0 mm    | 0.356                  | 0.411                              | 0.312 | 0.402 | 0.387 | 0.0075 | 0.005 | 0.0183 | 0.008 | 0.01  | 0.078 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 8     | 19    | 30    | 41     | 52    | 63     | 74    | 85    | 96    |
| LTE Band 38       | QPSK               | 2595            | 38000   | 1       | 0         | Left Cheek    | 0 mm    | 0.312                  | 0.452                              | 0.227 | 0.244 | 0.164 | 0.278  | 0.256 | 0.419  | 0.424 | 0.35  | 0.241 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 9     | 20    | 31    | 42     | 53    | 64     | 75    | 86    | 97    |
| LTE Band 41       | QPSK               | 2506            | 39750   | 1       | 0         | Left Cheek    | 0 mm    | 0.243                  | 0.359                              | 0.154 | 0.165 | 0.172 | 0.202  | 0.16  | 0.317  | 0.278 | 0.179 | 0.171 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 10    | 21    | 32    | 43     | 54    | 65     | 76    | 87    | 98    |
| LTE Band 71       | QPSK               | 680.5           | 133297  | 1       | 0         | Left Cheek    | 0 mm    | 0.187                  | 0.202                              | 0.156 | 0.176 | 0.015 | 0.007  | 0.002 | 0.013  | 0.039 | 0.01  | 0.156 |
| Body (Antenna 0C) |                    |                 |         |         |           |               |         |                        |                                    |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
|                   |                    |                 |         |         |           |               |         |                        | Auto-Tune                          | 0     | 11    | 22    | 33     | 44    | 55     | 66    | 77    | 88    |
| GSM850            | GPRS (4 Tx slots)  | 848.8           | 251     | N/A     | N/A       | Back          | 10mm    | 0.838                  | 1.041                              | 0.07  | 0.947 | 1.033 | 0.374  | 0.487 | 0.424  | 0.101 | 0.6   | 0.358 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 1     | 12    | 23    | 34     | 45    | 56     | 67    | 78    | 89    |
| WCDMA B4          | RMC12.2K           | 1732.6          | 1413    | N/A     | N/A       | Left Side     | 10 mm   | 0.625                  | 0.773                              | 0.267 | 0.574 | 0.581 | 0.703  | 0.671 | 0.489  | 0.357 | 0.261 | 0.278 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 2     | 13    | 24    | 35     | 46    | 57     | 68    | 79    | 90    |
| WCDMA B5          | RMC12.2K           | 836.4           | 4182    | N/A     | N/A       | Back          | 10 mm   | 0.857                  | 1.03                               | 0.364 | 1.01  | 1.012 | 0.819  | 0.668 | 0.242  | 0.154 | 0.002 | 0.055 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 3     | 14    | 25    | 36     | 47    | 58     | 69    | 80    | 91    |
| LTE Band 4        | QPSK               | 1732.5          | 20175   | 1       | 0         | Left Side     | 10 mm   | 0.516                  | 0.633                              | 0.42  | 0.53  | 0.551 | 0.493  | 0.534 | 0.245  | 0.359 | 0.102 | 0.096 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 4     | 15    | 26    | 37     | 48    | 59     | 70    | 81    | 92    |
| LTE Band 7        | QPSK               | 2560            | 21350   | 1       | 99        | Left Side     | 10 mm   | 0.666                  | 1.131                              | 0.456 | 0.511 | 0.558 | 0.832  | 1.014 | 0.933  | 1.046 | 0.202 | 0.319 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 5     | 16    | 27    | 38     | 49    | 60     | 71    | 82    | 93    |
| LTE Band 12       | QPSK               | 707.5           | 23095   | 1       | 49        | Back          | 10 mm   | 0.289                  | 0.349                              | 0.165 | 0.135 | 0.213 | 0.21   | 0.153 | 0.075  | 0.06  | 0.032 | 0.181 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 6     | 17    | 28    | 39     | 50    | 61     | 72    | 83    | 94    |
| LTE Band 13       | QPSK               | 782             | 23230   | 1       | 0         | Back          | 10 mm   | 0.568                  | 0.675                              | 0.002 | 0.046 | 0.281 | 0.071  | 0.073 | 0.028  | 0.018 | 0.021 | 0.283 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 7     | 18    | 29    | 40     | 51    | 62     | 73    | 84    | 95    |
| LTE Band 26       | QPSK               | 831.5           | 26865   | 1       | 0         | Back          | 10 mm   | 0.859                  | 1.19                               | 0.904 | 1.164 | 1.122 | 0.022  | 0.015 | 0.053  | 0.026 | 0.029 | 0.228 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 8     | 19    | 30    | 41     | 52    | 63     | 74    | 85    | 96    |
| LTE Band 38       | QPSK               | 2595            | 38000   | 1       | 0         | Left Side     | 10 mm   | 0.539                  | 0.919                              | 0.462 | 0.497 | 0.334 | 0.566  | 0.522 | 0.852  | 0.863 | 0.713 | 0.491 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 9     | 20    | 31    | 42     | 53    | 64     | 75    | 86    | 97    |
| LTE Band 41       | QPSK               | 2506            | 39750   | 1       | 0         | Right Side    | 10 mm   | 0.455                  | 0.775                              | 0.334 | 0.357 | 0.372 | 0.437  | 0.347 | 0.685  | 0.601 | 0.388 | 0.371 |
|                   |                    |                 |         |         |           |               |         |                        | Average Value of Time Sweep (W/kg) |       |       |       |        |       |        |       |       |       |
| Mode              | Service/Modulation | Frequency (MHz) | Channel | RB Size | RB Offset | Test Position | Spacing | Measured 1g SAR (W/kg) | Auto-Tune                          | 10    | 21    | 32    | 43     | 54    | 65     | 76    | 87    | 98    |
| LTE Band 71       | QPSK               | 680.5           | 133297  | 1       | 0         | Back          | 10 mm   | 0.333                  | 0.497                              | 0.386 | 0.435 | 0.038 | 0.018  | 0.007 | 0.033  | 0.098 | 0.025 | 0.386 |

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## **18. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **19. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [13] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.