

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B30              | Bottom Face      | 1.158      | 0mm      | 110                    | 81.5   | 7.41  | 249.2            | 1.98              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B30              | Bottom Face      | 1.158      | 0mm      | 110                    | 81.5   | 7.41  | 134.6            | 2.67              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 311.0            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |
| Case 28 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B41              | Bottom of Laptop | 0.308      | 0mm      | -98.2                  | 131.2  | 7.47  | 88.9             | 1.10              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B41              | Bottom of Laptop | 0.308      | 0mm      | -98.2                  | 131.2  | 7.47  | 287.9            | 0.97              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
| Case 29 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B41              | Bottom Face      | 0.915      | 0mm      | 105.8                  | 135.2  | 7.58  | 104.2            | 2.10              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B41              | Bottom Face      | 0.915      | 0mm      | 105.8                  | 135.2  | 7.58  | 301.9            | 1.84              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B41              | Bottom Face      | 0.915      | 0mm      | 105.8                  | 135.2  | 7.58  | 297.7            | 1.73              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B41              | Bottom Face      | 0.915      | 0mm      | 105.8                  | 135.2  | 7.58  | 105.7            | 2.43              | 0.04          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |
| Case 32 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.45       | 0mm      | -65.6                  | -139.2 | 7.41  | 286.1            | 1.24              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.45       | 0mm      | -65.6                  | -139.2 | 7.41  | 58.2             | 1.11              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.45       | 0mm      | -65.6                  | -139.2 | 7.41  | 61.5             | 0.69              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.45       | 0mm      | -65.6                  | -139.2 | 7.41  | 290.9            | 1.41              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 33 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B48_MIMO2        | Bottom Face      | 1.18       | 0mm      | 75.4                   | -142.6 | 7.59  | 296.8            | 2.37              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B48_MIMO2        | Bottom Face      | 1.18       | 0mm      | 75.4                   | -142.6 | 7.59  | 72.9             | 2.10              | 0.04          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | BT_Ant1              | Bottom Face      | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  | 289.5            | 1.42              | 0.01          | Not required     |
|         | LTE B48_MIMO2        |                  | 1.18       | 0mm      | 75.4                   | -142.6 | 7.59  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 67.4             | 2.00              | 0.04          | Not required     |
|         | LTE B48_MIMO2        |                  | 1.18       | 0mm      | 75.4                   | -142.6 | 7.59  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom Face      | 1.514      | 0mm      | 4.6                    | 165    | 1.05  | 315.7            | 2.69              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom Face      | 1.514      | 0mm      | 4.6                    | 165    | 1.05  | 311.0            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |

|         | Band                | Position         | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |        |       | 3D distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|---------|---------------------|------------------|---------------|-------------|------------------------|--------|-------|---------------------|-------------------------|------------------|---------------------|
|         |                     |                  |               |             | X                      | Y      | Z     |                     |                         |                  |                     |
| Case 34 | LTE B66             | Bottom of Laptop | 1.119         | 0mm         | -96.7                  | 134    | 7.47  | 87.1                | 1.91                    | 0.03             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 0.789         | 0mm         | -10.2                  | 141.4  | 0.21  |                     |                         |                  |                     |
|         | LTE B66             | Bottom of Laptop | 1.119         | 0mm         | -96.7                  | 134    | 7.47  | 290.1               | 1.78                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.659         | 0mm         | -7.6                   | -142   | 3.07  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789         | 0mm         | -10.2                  | 141.4  | 0.21  | 283.4               | 1.45                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.659         | 0mm         | -7.6                   | -142   | 3.07  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant2       | Bottom of Laptop | 0.659         | 0mm         | -7.6                   | -142   | 3.07  | 287.2               | 1.02                    | 0.00             | Not required        |
|         | BT_Ant1             |                  | 0.365         | 0mm         | -4.8                   | 145.2  | 0.029 |                     |                         |                  |                     |
|         | LTE B66             | Bottom of Laptop | 1.119         | 0mm         | -96.7                  | 134    | 7.47  | 296.4               | 1.36                    | 0.01             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.238         | 0mm         | -5.2                   | -147.8 | -0.07 |                     |                         |                  |                     |
|         | LTE B66             | Bottom of Laptop | 1.119         | 0mm         | -96.7                  | 134    | 7.47  | 92.9                | 2.08                    | 0.03             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959         | 0mm         | -4.8                   | 145.2  | 0.29  |                     |                         |                  |                     |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238         | 0mm         | -5.2                   | -147.8 | -0.07 | 293.0               | 1.20                    | 0.00             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959         | 0mm         | -4.8                   | 145.2  | 0.29  |                     |                         |                  |                     |
| Case 35 | LTE B66             | Bottom Face      | 1.132         | 0mm         | 99.5                   | 135.5  | 7.48  | 97.9                | 2.32                    | 0.04             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 1.189         | 0mm         | 2.2                    | 145    | 1.81  |                     |                         |                  |                     |
|         | LTE B66             | Bottom Face      | 1.132         | 0mm         | 99.5                   | 135.5  | 7.48  | 300.1               | 2.05                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189         | 0mm         | 2.2                    | 145    | 1.81  | 293.6               | 2.11                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921         | 0mm         | 3                      | -148.6 | 1.84  | 289.5               | 1.42                    | 0.01             | Not required        |
|         | BT_Ant1             |                  | 0.494         | 0mm         | 11.6                   | 140.8  | 1.05  |                     |                         |                  |                     |
|         | LTE B66             | Bottom Face      | 1.132         | 0mm         | 99.5                   | 135.5  | 7.48  | 295.9               | 1.95                    | 0.01             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.819         | 0mm         | 8.4                    | -146   | 0.81  |                     |                         |                  |                     |
|         | LTE B66             | Bottom Face      | 1.132         | 0mm         | 99.5                   | 135.5  | 7.48  | 99.6                | 2.65                    | 0.04             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514         | 0mm         | 4.6                    | 165    | 1.05  |                     |                         |                  |                     |
|         | WLAN5G_Ant2         | Bottom Face      | 0.819         | 0mm         | 8.4                    | -146   | 0.81  | 311.0               | 2.33                    | 0.01             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514         | 0mm         | 4.6                    | 165    | 1.05  |                     |                         |                  |                     |

| Case 36 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B66             | Edge 2           | 0.678      | 0mm      | -3.2                   | -103.8 | 7.14  | 92.6             | 1.94              | 0.03          | Not required     |
|         | WLAN5GHz+BT_Ant1    |                  | 1.263      | 0mm      | 0.4                    | -11.6  | -0.57 |                  |                   |               |                  |
| Case 37 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 286.3            | 1.22              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 48.6             | 1.09              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 51.8             | 0.67              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 290.9            | 1.39              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 38 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 299.2            | 1.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 62.6             | 1.60              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 57.3             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
| Case 39 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B71             | Bottom of Laptop | 0.408      | 0mm      | -94.6                  | 134    | 7.44  | 85.0             | 1.20              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B71             | Bottom of Laptop | 0.408      | 0mm      | -94.6                  | 134    | 7.44  | 289.4            | 1.07              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | LTE B71             | Bottom of Laptop | 0.408      | 0mm      | -94.6                  | 134    | 7.44  | 295.7            | 0.65              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B71             | Bottom of Laptop | 0.408      | 0mm      | -94.6                  | 134    | 7.44  | 90.8             | 1.37              | 0.02          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 40 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B71             | Bottom Face      | 1.136      | 0mm      | 110                    | 81.5   | 7.36  | 125.2            | 2.33              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B71             | Bottom Face      | 1.136      | 0mm      | 110                    | 81.5   | 7.36  | 253.8            | 2.06              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B71             | Bottom Face      | 1.136      | 0mm      | 110                    | 81.5   | 7.36  | 249.2            | 1.96              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B71             | Bottom Face      | 1.136      | 0mm      | 110                    | 81.5   | 7.36  | 134.6            | 2.65              | 0.03          | Not required     |

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom Face      | 1.514      | 0mm      | 4.6                    | 165    | 1.05  | 311.0            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |
| Case 87 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom of Laptop | 0.937      | 0mm      | -114.8                 | 114.3  | 7.51  | 108.3            | 1.73              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.937      | 0mm      | -114.8                 | 114.3  | 7.51  | 277.9            | 1.60              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.029 |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.937      | 0mm      | -114.8                 | 114.3  | 7.51  | 284.2            | 1.18              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.937      | 0mm      | -114.8                 | 114.3  | 7.51  | 114.5            | 1.90              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 88 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom Face      | 1.139      | 0mm      | 110.2                  | 81.2   | 7.43  | 125.6            | 2.33              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 1.139      | 0mm      | 110.2                  | 81.2   | 7.43  | 253.6            | 2.06              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 1.139      | 0mm      | 110.2                  | 81.2   | 7.43  | 249.1            | 1.96              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 1.139      | 0mm      | 110.2                  | 81.2   | 7.43  | 135.0            | 2.65              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 311.0            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 4.6                    | 165    | 1.05  |                  |                   |               |                  |



<When EN-DC is active>

|         | Band                | Position         | SAR (W/kg) | Gap  | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------------|------------------|------------|------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         |                     |                  |            | (mm) | X                      | Y      | Z     |                  |                   |               |                  |
| Case 41 | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 268.8            | 0.69              | 0.00          | Not required     |
|         | FR1 n5              |                  | 0.323      | 0mm  | -111.6                 | 121.9  | 7.37  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm  | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm  | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm  | -111.6                 | 121.9  | 7.37  | 103.5            | 1.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm  | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm  | -111.6                 | 121.9  | 7.37  | 283.7            | 0.98              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm  | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm  | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm  | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom of Laptop | 0.365      | 0mm  | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1             |                  | 0.365      | 0mm  | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm  | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 290.9            | 1.33              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm  | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm  | -111.6                 | 121.9  | 7.37  | 290.0            | 0.56              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm  | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm  | -111.6                 | 121.9  | 7.37  | 109.5            | 1.28              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm  | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238      | 0mm  | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm  | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 42 | LTE B2 MIMO2        | Bottom Face      | 0.689      | 0mm  | 65.4                   | -147.4 | 7.33  | 293.9            | 1.38              | 0.01          | Not required     |
|         | FR1 n5              |                  | 0.687      | 0mm  | 108.8                  | 143.3  | 7.67  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom Face      | 0.689      | 0mm  | 65.4                   | -147.4 | 7.33  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm  | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom Face      | 0.689      | 0mm  | 65.4                   | -147.4 | 7.33  | 62.7             | 1.61              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm  | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm  | 108.8                  | 143.3  | 7.67  | 106.8            | 1.88              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm  | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm  | 108.8                  | 143.3  | 7.67  | 310.5            | 1.61              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm  | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm  | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm  | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm  | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm  | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom Face      | 0.689      | 0mm  | 65.4                   | -147.4 | 7.33  | 57.4             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm  | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom Face      | 0.689      | 0mm  | 65.4                   | -147.4 | 7.33  | 293.2            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm  | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm  | 108.8                  | 143.3  | 7.67  | 306.3            | 1.51              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm  | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm  | 108.8                  | 143.3  | 7.67  | 97.5             | 2.20              | 0.03          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm  | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom Face      | 0.819      | 0mm  | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm  | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 43 | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 268.8            | 0.58              | 0.00          | Not required     |
|         | FR1 n12             |                  | 0.206      | 0mm  | -111.6                 | 121.9  | 7.37  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm  | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B2 MIMO2        | Bottom of Laptop | 0.37       | 0mm  | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm  | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n12             | Bottom of Laptop | 0.206      | 0mm  | -111.6                 | 121.9  | 7.37  | 103.5            | 1.00              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm  | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |



# FCC SAR TEST REPORT

Report No. : FA092423

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | FR1 n12              | Bottom of Laptop | 0.206      | 0mm      | -111.6                 | 121.9  | 7.37  | 283.7            | 0.87              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 290.9            | 1.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n12              | Bottom of Laptop | 0.206      | 0mm      | -111.6                 | 121.9  | 7.37  | 290.0            | 0.44              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n12              | Bottom of Laptop | 0.206      | 0mm      | -111.6                 | 121.9  | 7.37  | 109.5            | 1.17              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 44 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 230.4            | 1.31              | 0.01          | Not required     |
|         | FR1 n12              |                  | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 62.7             | 1.61              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n12              | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 128.3            | 1.81              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n12              | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 251.6            | 1.54              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 57.4             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 293.2            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n12              | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 247.0            | 1.44              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n12              | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 118.1            | 2.13              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 45 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 283.9            | 0.60              | 0.00          | Not required     |
|         | FR1 n71              |                  | 0.232      | 0mm      | -95                    | 140.1  | 7.33  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n71              | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 85.1             | 1.02              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n71              | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 295.4            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 290.9            | 1.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n71              | Bottom of        | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 301.7            | 0.47              | 0.00          | Not required     |



# FCC SAR TEST REPORT

Report No. : FA092423

|                      |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|----------------------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|                      | WLAN5G_Ant2          | Laptop           | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 90.6             | 1.19              | 0.01          | Not required     |
|                      | FR1 n71              | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  |                  |                   |               |                  |
|                      | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|                      | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|                      | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 46              | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                      |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|                      | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 230.4            | 1.32              | 0.01          | Not required     |
|                      | FR1 n71              |                  | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   |                  |                   |               |                  |
|                      | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 299.2            | 1.88              | 0.01          | Not required     |
|                      | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|                      | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 62.7             | 1.61              | 0.03          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|                      | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 128.3            | 1.82              | 0.02          | Not required     |
|                      | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|                      | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 251.6            | 1.55              | 0.01          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|                      | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|                      | BT_Ant1              | Bottom Face      | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  | 289.5            | 1.42              | 0.01          | Not required     |
|                      | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 57.4             | 1.51              | 0.03          | Not required     |
|                      | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|                      | LTE B2 MIMO2         | Bottom Face      | 0.689      | 0mm      | 65.4                   | -147.4 | 7.33  | 293.2            | 2.20              | 0.01          | Not required     |
|                      | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|                      | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 247.0            | 1.45              | 0.01          | Not required     |
| WLAN5G_Ant2          | 0.819                |                  | 0mm        | 8.4      | -146                   | 0.81   |       |                  |                   |               |                  |
| FR1 n71              | Bottom Face          | 0.632            | 0mm        | 111.6    | 78.3                   | 7.6    | 118.1 | 2.15             | 0.03              | Not required  |                  |
| WLAN5G_Ant 1+BT_Ant1 |                      | 1.514            | 0mm        | 11.6     | 140.8                  | 1.05   |       |                  |                   |               |                  |
| WLAN5G_Ant2          | Bottom Face          | 0.819            | 0mm        | 8.4      | -146                   | 0.81   | 286.8 | 2.33             | 0.01              | Not required  |                  |
| WLAN5G_Ant 1+BT_Ant1 |                      | 1.514            | 0mm        | 11.6     | 140.8                  | 1.05   |       |                  |                   |               |                  |
| Case 47              | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                      |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|                      | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 262.3            | 0.96              | 0.00          | Not required     |
|                      | FR1 n2 MIMO2         |                  | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  |                  |                   |               |                  |
|                      | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 108.1            | 1.38              | 0.02          | Not required     |
|                      | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|                      | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 278.0            | 1.25              | 0.01          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|                      | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|                      | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|                      | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|                      | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|                      | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|                      | BT_Ant1              | Bottom of Laptop | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  | 287.2            | 1.02              | 0.00          | Not required     |
|                      | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 284.3            | 0.83              | 0.00          | Not required     |
|                      | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|                      | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 114.2            | 1.55              | 0.02          | Not required     |
|                      | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|                      | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
| WLAN5G_Ant2          | 0.238                |                  | 0mm        | -5.2     | -147.8                 | -0.07  |       |                  |                   |               |                  |
| FR1 n2 MIMO2         | Bottom of Laptop     | 0.37             | 0mm        | -55.9    | -141.1                 | 7.31   | 290.9 | 1.33             | 0.01              | Not required  |                  |
| WLAN5G_Ant 1+BT_Ant1 |                      | 0.959            | 0mm        | -4.8     | 145.2                  | 0.29   |       |                  |                   |               |                  |
| WLAN5G_Ant2          | Bottom of Laptop     | 0.238            | 0mm        | -5.2     | -147.8                 | -0.07  | 293.0 | 1.20             | 0.00              | Not required  |                  |
| WLAN5G_Ant 1+BT_Ant1 |                      | 0.959            | 0mm        | -4.8     | 145.2                  | 0.29   |       |                  |                   |               |                  |
| Case 48              | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                      |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|                      | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 233.2            | 1.41              | 0.01          | Not required     |
|                      | FR1 n2 MIMO2         |                  | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  |                  |                   |               |                  |
|                      | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 125.2            | 1.91              | 0.02          | Not required     |
| WLAN2.4G_Ant1        | 1.189                |                  | 0mm        | 2.2      | 145                    | 1.81   |       |                  |                   |               |                  |

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 253.8            | 1.64              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 62.7             | 1.61              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 249.2            | 1.54              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 115.1            | 2.23              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 57.4             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 293.2            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 49 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 255.2            | 0.80              | 0.00          | Not required     |
|         | FR1 n7 MIMO2         |                  | 0.211      | 0mm      | -65.8                  | -136   | 7.39  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 108.1            | 1.38              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 278.0            | 1.25              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom of Laptop | 0.211      | 0mm      | -65.8                  | -136   | 7.39  | 283.0            | 1.00              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom of Laptop | 0.211      | 0mm      | -65.8                  | -136   | 7.39  | 58.7             | 0.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 284.3            | 0.83              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 114.2            | 1.55              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom of Laptop | 0.211      | 0mm      | -65.8                  | -136   | 7.39  | 62.2             | 0.45              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom of Laptop | 0.211      | 0mm      | -65.8                  | -136   | 7.39  | 287.8            | 1.17              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 50 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 226.6            | 1.42              | 0.01          | Not required     |
|         | FR1 n7 MIMO2         |                  | 0.699      | 0mm      | 72.4                   | -142   | 7.34  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 125.2            | 1.91              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 253.8            | 1.64              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699      | 0mm      | 72.4                   | -142   | 7.34  | 295.5            | 1.89              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699      | 0mm      | 72.4                   | -142   | 7.34  | 69.9             | 1.62              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 249.2            | 1.54              | 0.01          | Not required     |



# FCC SAR TEST REPORT

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|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 115.1            | 2.23              | 0.03          | Not required     |
|         | LTE B5               |                  | 0.719      | 0mm      | 110                    | 81.5   | 7.41  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699      | 0mm      | 72.4                   | -142   | 7.34  | 64.5             | 1.52              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699      | 0mm      | 72.4                   | -142   | 7.34  | 289.3            | 2.21              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 51 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 263.4            | 1.19              | 0.00          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 108.1            | 1.38              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 278.0            | 1.25              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 285.5            | 1.38              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 43.7             | 1.25              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 284.3            | 0.83              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B5               | Bottom of Laptop | 0.591      | 0mm      | -114.6                 | 114.5  | 7.53  | 114.2            | 1.55              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 47.0             | 0.83              | 0.02          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 290.1            | 1.55              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 52 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 233.2            | 1.41              | 0.01          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 125.2            | 1.91              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 253.8            | 1.64              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 62.6             | 1.62              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 249.2            | 1.54              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B5               | Bottom Face      | 0.719      | 0mm      | 110                    | 81.5   | 7.41  | 115.1            | 2.23              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 57.3             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 293.2            | 2.21              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |



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|         | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
| Case 53 | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 261.8            | 0.52              | 0.00          | Not required     |
|         | FR1 n5              |                  | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 283.1            | 0.99              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 59.3             | 0.86              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  | 103.5            | 1.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  | 283.7            | 0.98              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 62.8             | 0.44              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 288.0            | 1.16              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n5              | Bottom of Laptop | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  | 290.0            | 0.56              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
| Case 54 | LTE B7 MIMO2        | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 287.6            | 1.32              | 0.01          | Not required     |
|         | FR1 n5              |                  | 0.687      | 0mm      | 108.8                  | 143.3  | 7.67  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 295.5            | 1.82              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 69.9             | 1.55              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm      | 108.8                  | 143.3  | 7.67  | 106.8            | 1.88              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n5              | Bottom Face      | 0.687      | 0mm      | 108.8                  | 143.3  | 7.67  | 310.5            | 1.61              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 64.5             | 1.45              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 289.3            | 2.15              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 55 | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 277.6            | 0.43              | 0.00          | Not required     |
|         | FR1 n71             |                  | 0.232      | 0mm      | -95                    | 140.1  | 7.33  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 283.1            | 0.99              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B7 MIMO2        | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 59.3             | 0.86              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 85.1             | 1.02              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 295.4            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of        | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |



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|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN2.4G_Ant2        | Laptop           | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 62.8             | 0.44              | 0.00          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom of Laptop | 0.197      | 0mm      | -66.4                  | -136   | 7.37  | 288.0            | 1.16              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n71              | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 301.7            | 0.47              | 0.00          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n71              | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 90.6             | 1.19              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
| Case 56 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B7 MIMO2         | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 223.8            | 1.26              | 0.01          | Not required     |
|         | FR1 n71              |                  | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 295.5            | 1.82              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 69.9             | 1.55              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 128.3            | 1.82              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 251.6            | 1.55              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 64.5             | 1.45              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B7 MIMO2         | Bottom Face      | 0.631      | 0mm      | 72.4                   | -142   | 7.36  | 289.3            | 2.15              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 247.0            | 1.45              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 118.1            | 2.15              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 57 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B12              | Bottom of Laptop | 0.23       | 0mm      | -96                    | 134.7  | 7.47  | 278.7            | 0.60              | 0.00          | Not required     |
|         | FR1 n2 MIMO2         |                  | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  |                  |                   |               |                  |
|         | LTE B12              | Bottom of Laptop | 0.23       | 0mm      | -96                    | 134.7  | 7.47  | 86.4             | 1.02              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B12              | Bottom of Laptop | 0.23       | 0mm      | -96                    | 134.7  | 7.47  | 290.5            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B12              | Bottom of Laptop | 0.23       | 0mm      | -96                    | 134.7  | 7.47  | 296.8            | 0.47              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B12              | Bottom of Laptop | 0.23       | 0mm      | -96                    | 134.7  | 7.47  | 92.1             | 1.19              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 290.9            | 1.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |



# FCC SAR TEST REPORT

Report No. : FA092423

|         | Band                | Position         | SAR<br>(W/kg) | Gap<br>(mm) | SAR peak location (mm) |        |       | 3D distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|---------|---------------------|------------------|---------------|-------------|------------------------|--------|-------|---------------------|-------------------------|------------------|---------------------|
|         |                     |                  |               |             | X                      | Y      | Z     |                     |                         |                  |                     |
| Case 58 | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 231.9               | 1.37                    | 0.01             | Not required        |
|         | FR1 n2 MIMO2        |                  | 0.686         | 0mm         | 65.4                   | -147.4 | 7.32  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 127.4               | 1.88                    | 0.02             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 1.189         | 0mm         | 2.2                    | 145    | 1.81  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 253.1               | 1.61                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | FR1 n2 MIMO2        | Bottom Face      | 0.686         | 0mm         | 65.4                   | -147.4 | 7.32  | 299.2               | 1.88                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 1.189         | 0mm         | 2.2                    | 145    | 1.81  |                     |                         |                  |                     |
|         | FR1 n2 MIMO2        | Bottom Face      | 0.686         | 0mm         | 65.4                   | -147.4 | 7.32  | 62.7                | 1.61                    | 0.03             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189         | 0mm         | 2.2                    | 145    | 1.81  | 293.6               | 2.11                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | BT_Ant1             | Bottom Face      | 0.921         | 0mm         | 3                      | -148.6 | 1.84  | 289.5               | 1.42                    | 0.01             | Not required        |
|         | BT_Ant1             |                  | 0.494         | 0mm         | 11.6                   | 140.8  | 1.05  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 248.4               | 1.51                    | 0.01             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.819         | 0mm         | 8.4                    | -146   | 0.81  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 117.2               | 2.20                    | 0.03             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514         | 0mm         | 11.6                   | 140.8  | 1.05  |                     |                         |                  |                     |
|         | FR1 n2 MIMO2        | Bottom Face      | 0.686         | 0mm         | 65.4                   | -147.4 | 7.32  | 57.4                | 1.51                    | 0.03             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.819         | 0mm         | 8.4                    | -146   | 0.81  |                     |                         |                  |                     |
|         | FR1 n2 MIMO2        | Bottom Face      | 0.686         | 0mm         | 65.4                   | -147.4 | 7.32  | 293.2               | 2.20                    | 0.01             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514         | 0mm         | 11.6                   | 140.8  | 1.05  |                     |                         |                  |                     |
|         | WLAN5G_Ant2         | Bottom Face      | 0.819         | 0mm         | 8.4                    | -146   | 0.81  | 286.8               | 2.33                    | 0.01             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514         | 0mm         | 11.6                   | 140.8  | 1.05  |                     |                         |                  |                     |
| Case 59 | LTE B12             | Bottom of Laptop | 0.23          | 0mm         | -96                    | 134.7  | 7.47  | 272.4               | 0.44                    | 0.00             | Not required        |
|         | FR1 n7 MIMO2        |                  | 0.211         | 0mm         | -65.8                  | -136   | 7.39  |                     |                         |                  |                     |
|         | LTE B12             | Bottom of Laptop | 0.23          | 0mm         | -96                    | 134.7  | 7.47  | 86.4                | 1.02                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 0.789         | 0mm         | -10.2                  | 141.4  | 0.21  |                     |                         |                  |                     |
|         | LTE B12             | Bottom of Laptop | 0.23          | 0mm         | -96                    | 134.7  | 7.47  | 290.5               | 0.89                    | 0.00             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.659         | 0mm         | -7.6                   | -142   | 3.07  |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom of Laptop | 0.211         | 0mm         | -65.8                  | -136   | 7.39  | 283.0               | 1.00                    | 0.00             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 0.789         | 0mm         | -10.2                  | 141.4  | 0.21  |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom of Laptop | 0.211         | 0mm         | -65.8                  | -136   | 7.39  | 58.7                | 0.87                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.659         | 0mm         | -7.6                   | -142   | 3.07  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789         | 0mm         | -10.2                  | 141.4  | 0.21  | 283.4               | 1.45                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.659         | 0mm         | -7.6                   | -142   | 3.07  |                     |                         |                  |                     |
|         | LTE B12             | Bottom of Laptop | 0.23          | 0mm         | -96                    | 134.7  | 7.47  | 296.8               | 0.47                    | 0.00             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.238         | 0mm         | -5.2                   | -147.8 | -0.07 |                     |                         |                  |                     |
|         | LTE B12             | Bottom of Laptop | 0.23          | 0mm         | -96                    | 134.7  | 7.47  | 92.1                | 1.19                    | 0.01             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959         | 0mm         | -4.8                   | 145.2  | 0.29  |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom of Laptop | 0.211         | 0mm         | -65.8                  | -136   | 7.39  | 62.2                | 0.45                    | 0.00             | Not required        |
|         | WLAN5G_Ant2         |                  | 0.238         | 0mm         | -5.2                   | -147.8 | -0.07 |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom of Laptop | 0.211         | 0mm         | -65.8                  | -136   | 7.39  | 287.8               | 1.17                    | 0.00             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959         | 0mm         | -4.8                   | 145.2  | 0.29  |                     |                         |                  |                     |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238         | 0mm         | -5.2                   | -147.8 | -0.07 | 293.0               | 1.20                    | 0.00             | Not required        |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959         | 0mm         | -4.8                   | 145.2  | 0.29  |                     |                         |                  |                     |
| Case 60 | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 225.3               | 1.39                    | 0.01             | Not required        |
|         | FR1 n7 MIMO2        |                  | 0.699         | 0mm         | 72.4                   | -142   | 7.34  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 127.4               | 1.88                    | 0.02             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 1.189         | 0mm         | 2.2                    | 145    | 1.81  |                     |                         |                  |                     |
|         | LTE B12             | Bottom Face      | 0.687         | 0mm         | 111.6                  | 79.9   | 7.2   | 253.1               | 1.61                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom Face      | 0.699         | 0mm         | 72.4                   | -142   | 7.34  | 295.5               | 1.89                    | 0.01             | Not required        |
|         | WLAN2.4G_Ant1       |                  | 1.189         | 0mm         | 2.2                    | 145    | 1.81  |                     |                         |                  |                     |
|         | FR1 n7 MIMO2        | Bottom Face      | 0.699         | 0mm         | 72.4                   | -142   | 7.34  | 69.9                | 1.62                    | 0.03             | Not required        |
|         | WLAN2.4G_Ant2       |                  | 0.921         | 0mm         | 3                      | -148.6 | 1.84  |                     |                         |                  |                     |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189         | 0mm         | 2.2                    | 145    | 1.81  | 293.6               | 2.11                    | 0.01             | Not required        |

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|         |                      |                  |                   |                 |                               |        |       |                         |                          |                      |                         |
|---------|----------------------|------------------|-------------------|-----------------|-------------------------------|--------|-------|-------------------------|--------------------------|----------------------|-------------------------|
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921             | 0mm             | 3                             | -148.6 | 1.84  | 289.5                   | 1.42                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | BT_Ant1              |                  | 0.494             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 248.4                   | 1.51                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 117.2                   | 2.20                     | 0.03                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699             | 0mm             | 72.4                          | -142   | 7.34  | 64.5                    | 1.52                     | 0.03                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | FR1 n7 MIMO2         | Bottom Face      | 0.699             | 0mm             | 72.4                          | -142   | 7.34  | 289.3                   | 2.21                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819             | 0mm             | 8.4                           | -146   | 0.81  | 286.8                   | 2.33                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
| Case 61 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B12              | Bottom of Laptop | 0.23              | 0mm             | -96                           | 134.7  | 7.47  | 279.4                   | 0.82                     | 0.00                 | Not required            |
|         | FR1 n66 MIMO2        |                  | 0.594             | 0mm             | -51.1                         | -141.1 | 7.28  |                         |                          |                      |                         |
|         | LTE B12              | Bottom of Laptop | 0.23              | 0mm             | -96                           | 134.7  | 7.47  | 86.4                    | 1.02                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | LTE B12              | Bottom of Laptop | 0.23              | 0mm             | -96                           | 134.7  | 7.47  | 290.5                   | 0.89                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594             | 0mm             | -51.1                         | -141.1 | 7.28  | 285.5                   | 1.38                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594             | 0mm             | -51.1                         | -141.1 | 7.28  | 43.7                    | 1.25                     | 0.03                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  | 283.4                   | 1.45                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659             | 0mm             | -7.6                          | -142   | 3.07  | 287.2                   | 1.02                     | 0.00                 | Not required            |
|         | BT_Ant1              |                  | 0.365             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | LTE B12              | Bottom of Laptop | 0.23              | 0mm             | -96                           | 134.7  | 7.47  | 296.8                   | 0.47                     | 0.00                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | LTE B12              | Bottom of Laptop | 0.23              | 0mm             | -96                           | 134.7  | 7.47  | 92.1                    | 1.19                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594             | 0mm             | -51.1                         | -141.1 | 7.28  | 47.0                    | 0.83                     | 0.02                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594             | 0mm             | -51.1                         | -141.1 | 7.28  | 290.1                   | 1.55                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 | 293.0                   | 1.20                     | 0.00                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
| Case 62 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 232.0                   | 1.38                     | 0.01                 | Not required            |
|         | FR1 n66 MIMO2        |                  | 0.695             | 0mm             | 65.3                          | -147.4 | 7.32  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 127.4                   | 1.88                     | 0.02                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 253.1                   | 1.61                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695             | 0mm             | 65.3                          | -147.4 | 7.32  | 299.2                   | 1.88                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695             | 0mm             | 65.3                          | -147.4 | 7.32  | 62.6                    | 1.62                     | 0.03                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189             | 0mm             | 2.2                           | 145    | 1.81  | 293.6                   | 2.11                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921             | 0mm             | 3                             | -148.6 | 1.84  | 289.5                   | 1.42                     | 0.01                 | Not required            |
|         | BT_Ant1              |                  | 0.494             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 248.4                   | 1.51                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | LTE B12              | Bottom Face      | 0.687             | 0mm             | 111.6                         | 79.9   | 7.2   | 117.2                   | 2.20                     | 0.03                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695             | 0mm             | 65.3                          | -147.4 | 7.32  | 57.3                    | 1.51                     | 0.03                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695             | 0mm             | 65.3                          | -147.4 | 7.32  | 293.2                   | 2.21                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |



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|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 63 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 262.1            | 0.84              | 0.00          | Not required     |
|         | FR1 n2 MIMO2         |                  | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 106.9            | 1.26              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 277.6            | 1.13              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 286.3            | 1.16              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 48.5             | 1.03              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 283.9            | 0.71              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 113.1            | 1.43              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 51.7             | 0.61              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom of Laptop | 0.37       | 0mm      | -55.9                  | -141.1 | 7.31  | 290.9            | 1.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 64 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 233.2            | 1.42              | 0.01          | Not required     |
|         | FR1 n2 MIMO2         |                  | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 125.2            | 1.92              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 253.8            | 1.66              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 62.7             | 1.61              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 249.2            | 1.55              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 115.1            | 2.25              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 57.4             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n2 MIMO2         | Bottom Face      | 0.686      | 0mm      | 65.4                   | -147.4 | 7.32  | 293.2            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 65 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                      |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 263.2            | 1.06              | 0.00          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 106.9            | 1.26              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 277.6            | 1.13              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of        | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 285.5            | 1.38              | 0.01          | Not required     |



# FCC SAR TEST REPORT

Report No. : FA092423

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
| Case 66 | WLAN2.4G_Ant1        | Laptop           | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 43.7             | 1.25              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              | Bottom of Laptop | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 283.9            | 0.71              | 0.00          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B13              | Bottom of Laptop | 0.468      | 0mm      | -113.4                 | 114.6  | 7.52  | 113.1            | 1.43              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 47.0             | 0.83              | 0.02          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 290.1            | 1.55              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 67 | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 233.2            | 1.43              | 0.01          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 125.2            | 1.92              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 253.8            | 1.66              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 62.6             | 1.62              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 249.2            | 1.55              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B13              | Bottom Face      | 0.735      | 0mm      | 110                    | 81.5   | 7.45  | 115.1            | 2.25              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 57.3             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 293.2            | 2.21              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 67 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B25              | Bottom of Laptop | 0.651      | 0mm      | -96.8                  | 135.6  | 7.48  | 272.1            | 0.75              | 0.00          | Not required     |
|         | FR1 n41 MIMO2        |                  | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  |                  |                   |               |                  |
|         | LTE B25              | Bottom of Laptop | 0.651      | 0mm      | -96.8                  | 135.6  | 7.48  | 87.1             | 1.44              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B25              | Bottom of Laptop | 0.651      | 0mm      | -96.8                  | 135.6  | 7.48  | 291.6            | 1.31              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 283.0            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 62.7             | 0.76              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B25              | Bottom of Laptop | 0.651      | 0mm      | -96.8                  | 135.6  | 7.48  | 297.9            | 0.89              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B25              | Bottom of Laptop | 0.651      | 0mm      | -96.8                  | 135.6  | 7.48  | 92.8             | 1.61              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 66.2             | 0.34              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 287.9            | 1.06              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 68 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B25              | Bottom Face      | 0.709      | 0mm      | 101                    | 135.5  | 7.32  | 278.9            | 1.39              | 0.01          | Not required     |
|         | FR1 n41 MIMO2        |                  | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  |                  |                   |               |                  |
|         | LTE B25              | Bottom Face      | 0.709      | 0mm      | 101                    | 135.5  | 7.32  | 99.4             | 1.90              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B25              | Bottom Face      | 0.709      | 0mm      | 101                    | 135.5  | 7.32  | 300.6            | 1.63              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 295.1            | 1.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 69.0             | 1.60              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B25              | Bottom Face      | 0.709      | 0mm      | 101                    | 135.5  | 7.32  | 296.4            | 1.53              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B25              | Bottom Face      | 0.709      | 0mm      | 101                    | 135.5  | 7.32  | 89.8             | 2.22              | 0.04          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 63.5             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 288.9            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 69 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B26              | Bottom of Laptop | 0.613      | 0mm      | -114.6                 | 114.5  | 7.53  | 253.7            | 0.71              | 0.00          | Not required     |
|         | FR1 n41 MIMO2        |                  | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  |                  |                   |               |                  |
|         | LTE B26              | Bottom of Laptop | 0.613      | 0mm      | -114.6                 | 114.5  | 7.53  | 108.1            | 1.40              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B26              | Bottom of Laptop | 0.613      | 0mm      | -114.6                 | 114.5  | 7.53  | 278.0            | 1.27              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 283.0            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 62.7             | 0.76              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | BT_Ant1              | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | LTE B26              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B26              | Bottom of Laptop | 0.613      | 0mm      | -114.6                 | 114.5  | 7.53  | 284.3            | 0.85              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B26              | Bottom of Laptop | 0.613      | 0mm      | -114.6                 | 114.5  | 7.53  | 114.2            | 1.57              | 0.02          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 66.2             | 0.34              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 287.9            | 1.06              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 70 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B26              | Bottom Face      | 0.737      | 0mm      | 110                    | 81.5   | 7.41  | 226.6            | 1.42              | 0.01          | Not required     |
|         | FR1 n41 MIMO2        |                  | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  |                  |                   |               |                  |
|         | LTE B26              | Bottom Face      | 0.737      | 0mm      | 110                    | 81.5   | 7.41  | 125.2            | 1.93              | 0.02          | Not required     |



# FCC SAR TEST REPORT

Report No. : FA092423

|         |                     |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|---------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 253.8            | 1.66              | 0.01          | Not required     |
|         | LTE B26             |                  | 0.737      | 0mm      | 110                    | 81.5   | 7.41  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 295.1            | 1.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 69.0             | 1.60              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B26             | Bottom Face      | 0.737      | 0mm      | 110                    | 81.5   | 7.41  | 249.2            | 1.56              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B26             | Bottom Face      | 0.737      | 0mm      | 110                    | 81.5   | 7.41  | 115.1            | 2.25              | 0.03          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 63.5             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 288.9            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 71 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 280.8            | 0.84              | 0.00          | Not required     |
|         | FR1 n2              |                  | 0.558      | 0mm      | -95.3                  | 140    | 7.34  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 286.1            | 1.07              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 58.2             | 0.94              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n2              | Bottom of Laptop | 0.558      | 0mm      | -95.3                  | 140    | 7.34  | 85.4             | 1.35              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n2              | Bottom of Laptop | 0.558      | 0mm      | -95.3                  | 140    | 7.34  | 295.4            | 1.22              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1             |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 61.5             | 0.52              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 290.9            | 1.24              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n2              | Bottom of Laptop | 0.558      | 0mm      | -95.3                  | 140    | 7.34  | 301.7            | 0.80              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n2              | Bottom of Laptop | 0.558      | 0mm      | -95.3                  | 140    | 7.34  | 90.9             | 1.52              | 0.02          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 72 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 282.5            | 1.44              | 0.01          | Not required     |
|         | FR1 n2              |                  | 0.698      | 0mm      | 101                    | 138.7  | 7.63  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 296.8            | 1.93              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 72.9             | 1.67              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n2              | Bottom Face      | 0.698      | 0mm      | 101                    | 138.7  | 7.63  | 99.2             | 1.89              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n2              | Bottom Face      | 0.698      | 0mm      | 101                    | 138.7  | 7.63  | 303.6            | 1.62              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |

|         |                      |                  |                   |                 |                               |        |       |                         |                          |                      |                         |
|---------|----------------------|------------------|-------------------|-----------------|-------------------------------|--------|-------|-------------------------|--------------------------|----------------------|-------------------------|
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 67.4                    | 1.56                     | 0.03                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 290.6                   | 2.26                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | FR1 n2               | Bottom Face      | 0.698             | 0mm             | 101                           | 138.7  | 7.63  | 299.5                   | 1.52                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | FR1 n2               | Bottom Face      | 0.698             | 0mm             | 101                           | 138.7  | 7.63  | 89.7                    | 2.21                     | 0.04                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819             | 0mm             | 8.4                           | -146   | 0.81  | 286.8                   | 2.33                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
| Case 73 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.284             | 0mm             | -65.6                         | -139.2 | 7.41  | 265.1                   | 0.61                     | 0.00                 | Not required            |
|         | FR1 n5               |                  | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.284             | 0mm             | -65.6                         | -139.2 | 7.41  | 286.1                   | 1.07                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.284             | 0mm             | -65.6                         | -139.2 | 7.41  | 58.2                    | 0.94                     | 0.02                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom of Laptop | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  | 103.5                   | 1.11                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom of Laptop | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  | 283.7                   | 0.98                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  | 283.4                   | 1.45                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | BT_Ant1              | Bottom of Laptop | 0.365             | 0mm             | -4.8                          | 145.2  | 0.29  | 287.2                   | 1.02                     | 0.00                 | Not required            |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.284             | 0mm             | -65.6                         | -139.2 | 7.41  | 61.5                    | 0.52                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom of Laptop | 0.284             | 0mm             | -65.6                         | -139.2 | 7.41  | 290.9                   | 1.24                     | 0.00                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom of Laptop | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  | 290.0                   | 0.56                     | 0.00                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | FR1 n5               | Bottom of Laptop | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  | 109.5                   | 1.28                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 | 293.0                   | 1.20                     | 0.00                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
| Case 74 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 287.8                   | 1.43                     | 0.01                 | Not required            |
|         | FR1 n5               |                  | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 296.8                   | 1.93                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 72.9                    | 1.67                     | 0.03                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 106.8                   | 1.88                     | 0.02                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 310.5                   | 1.61                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189             | 0mm             | 2.2                           | 145    | 1.81  | 293.6                   | 2.11                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921             | 0mm             | 3                             | -148.6 | 1.84  | 289.5                   | 1.42                     | 0.01                 | Not required            |
|         | BT_Ant1              |                  | 0.494             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 67.4                    | 1.56                     | 0.03                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | LTE B48_MIMO2        | Bottom Face      | 0.745             | 0mm             | 75.4                          | -142.6 | 7.59  | 290.6                   | 2.26                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 306.3                   | 1.51                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 97.5                    | 2.20                     | 0.03                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819             | 0mm             | 8.4                           | -146   | 0.81  | 286.8                   | 2.33                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |



# FCC SAR TEST REPORT

Report No. : FA092423

|         | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------|---------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         |                     |                  |            |          | X                      | Y      | Z     |                  |                   |               |                  |
| Case 75 | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 280.9            | 0.78              | 0.00          | Not required     |
|         | FR1 n66             |                  | 0.491      | 0mm      | -95.3                  | 140.1  | 7.31  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 286.1            | 1.07              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 58.2             | 0.94              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n66             | Bottom of Laptop | 0.491      | 0mm      | -95.3                  | 140.1  | 7.31  | 85.4             | 1.28              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n66             | Bottom of Laptop | 0.491      | 0mm      | -95.3                  | 140.1  | 7.31  | 295.4            | 1.15              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1             |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 61.5             | 0.52              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom of Laptop | 0.284      | 0mm      | -65.6                  | -139.2 | 7.41  | 290.9            | 1.24              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n66             | Bottom of Laptop | 0.491      | 0mm      | -95.3                  | 140.1  | 7.31  | 301.8            | 0.73              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n66             | Bottom of Laptop | 0.491      | 0mm      | -95.3                  | 140.1  | 7.31  | 90.9             | 1.45              | 0.02          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 76 | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 277.8            | 1.40              | 0.01          | Not required     |
|         | FR1 n66             |                  | 0.656      | 0mm      | 101.1                  | 134    | 7.62  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 296.8            | 1.93              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 72.9             | 1.67              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n66             | Bottom Face      | 0.656      | 0mm      | 101.1                  | 134    | 7.62  | 99.7             | 1.85              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n66             | Bottom Face      | 0.656      | 0mm      | 101.1                  | 134    | 7.62  | 299.2            | 1.58              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 67.4             | 1.56              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B48_MIMO2       | Bottom Face      | 0.745      | 0mm      | 75.4                   | -142.6 | 7.59  | 290.6            | 2.26              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n66             | Bottom Face      | 0.656      | 0mm      | 101.1                  | 134    | 7.62  | 295.0            | 1.48              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n66             | Bottom Face      | 0.656      | 0mm      | 101.1                  | 134    | 7.62  | 90.0             | 2.17              | 0.04          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 77 | LTE B66             | Bottom of Laptop | 0.706      | 0mm      | -96.7                  | 134    | 7.47  | 270.5            | 0.80              | 0.00          | Not required     |
|         | FR1 n41 MIMO2       |                  | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  |                  |                   |               |                  |
|         | LTE B66             | Bottom of Laptop | 0.706      | 0mm      | -96.7                  | 134    | 7.47  | 87.1             | 1.50              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B66             | Bottom of Laptop | 0.706      | 0mm      | -96.7                  | 134    | 7.47  | 290.1            | 1.37              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 283.0            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n41 MIMO2       | Bottom of        | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 62.7             | 0.76              | 0.01          | Not required     |



# FCC SAR TEST REPORT

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|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
| Case 76 | WLAN2.4G_Ant2        | Laptop           | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              | Bottom of Laptop | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B66              | Bottom of Laptop | 0.706      | 0mm      | -96.7                  | 134    | 7.47  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 296.4            | 0.94              | 0.00          | Not required     |
|         | LTE B66              | Bottom of Laptop | 0.706      | 0mm      | -96.7                  | 134    | 7.47  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  | 66.2             | 0.34              | 0.00          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom of Laptop | 0.097      | 0mm      | -69.8                  | -135.2 | 7.39  |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  | 287.9            | 1.06              | 0.00          | Not required     |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 78 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B66              | Bottom Face      | 0.714      | 0mm      | 99.5                   | 135.5  | 7.48  | 278.7            | 1.40              | 0.01          | Not required     |
|         | FR1 n41 MIMO2        |                  | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  |                  |                   |               |                  |
|         | LTE B66              | Bottom Face      | 0.714      | 0mm      | 99.5                   | 135.5  | 7.48  | 97.9             | 1.90              | 0.03          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B66              | Bottom Face      | 0.714      | 0mm      | 99.5                   | 135.5  | 7.48  | 300.1            | 1.64              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 295.1            | 1.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 69.0             | 1.60              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B66              | Bottom Face      | 0.714      | 0mm      | 99.5                   | 135.5  | 7.48  | 295.9            | 1.53              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B66              | Bottom Face      | 0.714      | 0mm      | 99.5                   | 135.5  | 7.48  | 88.3             | 2.23              | 0.04          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 63.5             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n41 MIMO2        | Bottom Face      | 0.681      | 0mm      | 71.4                   | -141.8 | 7.34  | 288.9            | 2.20              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 79 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 268.8            | 0.75              | 0.00          | Not required     |
|         | FR1 n5               |                  | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  |                  |                   |               |                  |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 286.3            | 1.22              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 48.6             | 1.09              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n5               | Bottom of Laptop | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  | 103.5            | 1.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n5               | Bottom of Laptop | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  | 283.7            | 0.98              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | BT_Ant1              | Bottom of Laptop | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  | 287.2            | 1.02              | 0.00          | Not required     |
|         | LTE B66_MIMO2        |                  | 0.427      | 0mm      | -56                    | -141.1 | 7.3   |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 51.8             | 0.67              | 0.01          | Not required     |
|         | LTE B66_MIMO2        |                  | 0.427      | 0mm      | -56                    | -141.1 | 7.3   |                  |                   |               |                  |
|         | WLAN5G_Ant 1+BT_Ant1 | Bottom of Laptop | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  | 290.9            | 1.39              | 0.01          | Not required     |
|         | FR1 n5               |                  | 0.323      | 0mm      | -111.6                 | 121.9  | 7.37  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 290.0            | 0.56              | 0.00          | Not required     |

|         |                      |                  |                   |                 |                               |        |       |                         |                          |                      |                         |
|---------|----------------------|------------------|-------------------|-----------------|-------------------------------|--------|-------|-------------------------|--------------------------|----------------------|-------------------------|
|         | FR1 n5               | Bottom of Laptop | 0.323             | 0mm             | -111.6                        | 121.9  | 7.37  | 109.5                   | 1.28                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 | 293.0                   | 1.20                     | 0.00                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
| Case 80 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 293.9                   | 1.37                     | 0.01                 | Not required            |
|         | FR1 n5               |                  | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 299.2                   | 1.87                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 62.6                    | 1.60                     | 0.03                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 106.8                   | 1.88                     | 0.02                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 310.5                   | 1.61                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189             | 0mm             | 2.2                           | 145    | 1.81  | 293.6                   | 2.11                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.921             | 0mm             | 3                             | -148.6 | 1.84  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921             | 0mm             | 3                             | -148.6 | 1.84  | 289.5                   | 1.42                     | 0.01                 | Not required            |
|         | BT_Ant1              |                  | 0.494             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 57.3                    | 1.50                     | 0.03                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 293.2                   | 2.19                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 306.3                   | 1.51                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.819             | 0mm             | 8.4                           | -146   | 0.81  |                         |                          |                      |                         |
|         | FR1 n5               | Bottom Face      | 0.687             | 0mm             | 108.8                         | 143.3  | 7.67  | 97.5                    | 2.20                     | 0.03                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819             | 0mm             | 8.4                           | -146   | 0.81  | 286.8                   | 2.33                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514             | 0mm             | 11.6                          | 140.8  | 1.05  |                         |                          |                      |                         |
| Case 81 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427             | 0mm             | -56                           | -141.1 | 7.3   | 268.8                   | 0.63                     | 0.00                 | Not required            |
|         | FR1 n12              |                  | 0.206             | 0mm             | -111.6                        | 121.9  | 7.37  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427             | 0mm             | -56                           | -141.1 | 7.3   | 286.3                   | 1.22                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427             | 0mm             | -56                           | -141.1 | 7.3   | 48.6                    | 1.09                     | 0.02                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | FR1 n12              | Bottom of Laptop | 0.206             | 0mm             | -111.6                        | 121.9  | 7.37  | 103.5                   | 1.00                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  |                         |                          |                      |                         |
|         | FR1 n12              | Bottom of Laptop | 0.206             | 0mm             | -111.6                        | 121.9  | 7.37  | 283.7                   | 0.87                     | 0.00                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789             | 0mm             | -10.2                         | 141.4  | 0.21  | 283.4                   | 1.45                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant2        |                  | 0.659             | 0mm             | -7.6                          | -142   | 3.07  |                         |                          |                      |                         |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659             | 0mm             | -7.6                          | -142   | 3.07  | 287.2                   | 1.02                     | 0.00                 | Not required            |
|         | BT_Ant1              |                  | 0.365             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427             | 0mm             | -56                           | -141.1 | 7.3   | 51.8                    | 0.67                     | 0.01                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom of Laptop | 0.427             | 0mm             | -56                           | -141.1 | 7.3   | 290.9                   | 1.39                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | FR1 n12              | Bottom of Laptop | 0.206             | 0mm             | -111.6                        | 121.9  | 7.37  | 290.0                   | 0.44                     | 0.00                 | Not required            |
|         | WLAN5G_Ant2          |                  | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 |                         |                          |                      |                         |
|         | FR1 n12              | Bottom of Laptop | 0.206             | 0mm             | -111.6                        | 121.9  | 7.37  | 109.5                   | 1.17                     | 0.01                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238             | 0mm             | -5.2                          | -147.8 | -0.07 | 293.0                   | 1.20                     | 0.00                 | Not required            |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959             | 0mm             | -4.8                          | 145.2  | 0.29  |                         |                          |                      |                         |
| Case 82 | <b>Band</b>          | <b>Position</b>  | <b>SAR (W/kg)</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |        |       | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 230.4                   | 1.30                     | 0.01                 | Not required            |
|         | FR1 n12              |                  | 0.618             | 0mm             | 111.6                         | 78.3   | 7.58  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 299.2                   | 1.87                     | 0.01                 | Not required            |
|         | WLAN2.4G_Ant1        |                  | 1.189             | 0mm             | 2.2                           | 145    | 1.81  |                         |                          |                      |                         |
|         | LTE B66_MIMO2        | Bottom Face      | 0.679             | 0mm             | 65.3                          | -147.4 | 7.35  | 62.6                    | 1.60                     | 0.03                 | Not required            |



# FCC SAR TEST REPORT

Report No. : FA092423

|         |                     |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|---------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
| Case 82 | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 128.3            | 1.81              | 0.02          | Not required     |
|         | FR1 n12             |                  | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 251.6            | 1.54              | 0.01          | Not required     |
|         | FR1 n12             |                  | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 57.3             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 293.2            | 2.19              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n12             | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 247.0            | 1.44              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n12             | Bottom Face      | 0.618      | 0mm      | 111.6                  | 78.3   | 7.58  | 118.1            | 2.13              | 0.03          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 83 | WLAN5G_Ant2         | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 283.9            | 0.66              | 0.00          | Not required     |
|         | FR1 n71             |                  | 0.232      | 0mm      | -95                    | 140.1  | 7.33  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 286.3            | 1.22              | 0.00          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 48.6             | 1.09              | 0.02          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 85.1             | 1.02              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 295.4            | 0.89              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1             |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 51.8             | 0.67              | 0.01          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom of Laptop | 0.427      | 0mm      | -56                    | -141.1 | 7.3   | 290.9            | 1.39              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 301.7            | 0.47              | 0.00          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n71             | Bottom of Laptop | 0.232      | 0mm      | -95                    | 140.1  | 7.33  | 90.6             | 1.19              | 0.01          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2         | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 84 | Band                | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 230.4            | 1.31              | 0.01          | Not required     |
|         | FR1 n71             |                  | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 299.2            | 1.87              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 62.6             | 1.60              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n71             | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 128.3            | 1.82              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1       |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n71             | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 251.6            | 1.55              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1       | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2       |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2       | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1             |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B66_MIMO2       | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 57.3             | 1.50              | 0.03          | Not required     |
|         | WLAN5G_Ant2         |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |



# FCC SAR TEST REPORT

Report No. : FA092423

|         |                      |                  |            |          |                        |        |       |                  |                   |               |                  |
|---------|----------------------|------------------|------------|----------|------------------------|--------|-------|------------------|-------------------|---------------|------------------|
|         | LTE B66_MIMO2        | Bottom Face      | 0.679      | 0mm      | 65.3                   | -147.4 | 7.35  | 293.2            | 2.19              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 247.0            | 1.45              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n71              | Bottom Face      | 0.632      | 0mm      | 111.6                  | 78.3   | 7.6   | 118.1            | 2.15              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 85 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B71              | Bottom of Laptop | 0.257      | 0mm      | -94.6                  | 134    | 7.44  | 278.5            | 0.85              | 0.00          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  |                  |                   |               |                  |
|         | LTE B71              | Bottom of Laptop | 0.257      | 0mm      | -94.6                  | 134    | 7.44  | 85.0             | 1.05              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | LTE B71              | Bottom of Laptop | 0.257      | 0mm      | -94.6                  | 134    | 7.44  | 289.4            | 0.92              | 0.00          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 285.5            | 1.38              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 43.7             | 1.25              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom of Laptop | 0.789      | 0mm      | -10.2                  | 141.4  | 0.21  | 283.4            | 1.45              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.659      | 0mm      | -7.6                   | -142   | 3.07  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom of Laptop | 0.659      | 0mm      | -7.6                   | -142   | 3.07  | 287.2            | 1.02              | 0.00          | Not required     |
|         | BT_Ant1              |                  | 0.365      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | LTE B71              | Bottom of Laptop | 0.257      | 0mm      | -94.6                  | 134    | 7.44  | 295.7            | 0.50              | 0.00          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | LTE B71              | Bottom of Laptop | 0.257      | 0mm      | -94.6                  | 134    | 7.44  | 90.8             | 1.22              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 47.0             | 0.83              | 0.02          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom of Laptop | 0.594      | 0mm      | -51.1                  | -141.1 | 7.28  | 290.1            | 1.55              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom of Laptop | 0.238      | 0mm      | -5.2                   | -147.8 | -0.07 | 293.0            | 1.20              | 0.00          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 0.959      | 0mm      | -4.8                   | 145.2  | 0.29  |                  |                   |               |                  |
| Case 86 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B71              | Bottom Face      | 0.717      | 0mm      | 110                    | 81.5   | 7.36  | 233.2            | 1.41              | 0.01          | Not required     |
|         | FR1 n66 MIMO2        |                  | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  |                  |                   |               |                  |
|         | LTE B71              | Bottom Face      | 0.717      | 0mm      | 110                    | 81.5   | 7.36  | 125.2            | 1.91              | 0.02          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | LTE B71              | Bottom Face      | 0.717      | 0mm      | 110                    | 81.5   | 7.36  | 253.8            | 1.64              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 299.2            | 1.88              | 0.01          | Not required     |
|         | WLAN2.4G_Ant1        |                  | 1.189      | 0mm      | 2.2                    | 145    | 1.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 62.6             | 1.62              | 0.03          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant1        | Bottom Face      | 1.189      | 0mm      | 2.2                    | 145    | 1.81  | 293.6            | 2.11              | 0.01          | Not required     |
|         | WLAN2.4G_Ant2        |                  | 0.921      | 0mm      | 3                      | -148.6 | 1.84  |                  |                   |               |                  |
|         | WLAN2.4G_Ant2        | Bottom Face      | 0.921      | 0mm      | 3                      | -148.6 | 1.84  | 289.5            | 1.42              | 0.01          | Not required     |
|         | BT_Ant1              |                  | 0.494      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | LTE B71              | Bottom Face      | 0.717      | 0mm      | 110                    | 81.5   | 7.36  | 249.2            | 1.54              | 0.01          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | LTE B71              | Bottom Face      | 0.717      | 0mm      | 110                    | 81.5   | 7.36  | 115.1            | 2.23              | 0.03          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 57.3             | 1.51              | 0.03          | Not required     |
|         | WLAN5G_Ant2          |                  | 0.819      | 0mm      | 8.4                    | -146   | 0.81  |                  |                   |               |                  |
|         | FR1 n66 MIMO2        | Bottom Face      | 0.695      | 0mm      | 65.3                   | -147.4 | 7.32  | 293.2            | 2.21              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
|         | WLAN5G_Ant2          | Bottom Face      | 0.819      | 0mm      | 8.4                    | -146   | 0.81  | 286.8            | 2.33              | 0.01          | Not required     |
|         | WLAN5G_Ant 1+BT_Ant1 |                  | 1.514      | 0mm      | 11.6                   | 140.8  | 1.05  |                  |                   |               |                  |
| Case 87 | Band                 | Position         | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |       | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | LTE B66              | Edge 2           | 0.428      | 0mm      | -3.2                   | -103.8 | 7.14  | 92.6             | 1.69              | 0.02          | Not required     |

|                     |  |       |     |     |       |       |  |  |  |  |
|---------------------|--|-------|-----|-----|-------|-------|--|--|--|--|
| WLAN5G_Ant1+BT_Ant1 |  | 1.263 | 0mm | 0.4 | -11.6 | -0.57 |  |  |  |  |
|---------------------|--|-------|-----|-----|-------|-------|--|--|--|--|

**MIMO2 Antenna**

|               | Band          | Position | SAR (W/kg) | Gap (mm) | SAR peak location (mm) |        |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|---------------|---------------|----------|------------|----------|------------------------|--------|------|------------------|-------------------|---------------|------------------|
|               |               |          |            |          | X                      | Y      | Z    |                  |                   |               |                  |
| Case 2(MIMO)  | WCDMA II      | Bottom   | 1.107      | 0mm      | 101                    | 137.1  | 7.49 | 100.2            | 1.60              | 0.02          | Not required     |
|               | BT_Ant1       | Face     | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 |                  |                   |               |                  |
|               | WCDMA II      | Bottom   | 1.107      | 0mm      | 101                    | 137.1  | 7.49 | 301.0            | 1.88              | 0.01          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
|               | BT_Ant1       | Bottom   | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 | 292.7            | 1.26              | 0.00          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
| Case 5(MIMO)  | WCDMA IV      | Bottom   | 1.189      | 0mm      | 99.5                   | 135.5  | 7.53 | 98.8             | 1.68              | 0.02          | Not required     |
|               | BT_Ant1       | Face     | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 |                  |                   |               |                  |
|               | WCDMA IV      | Bottom   | 1.189      | 0mm      | 99.5                   | 135.5  | 7.53 | 299.0            | 1.96              | 0.01          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
|               | BT_Ant1       | Bottom   | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 | 292.7            | 1.26              | 0.00          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
| Case 12(MIMO) | LTE B7        | Bottom   | 1.137      | 0mm      | 104.6                  | 135.6  | 7.54 | 103.9            | 1.63              | 0.02          | Not required     |
|               | BT_Ant1       | Face     | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 |                  |                   |               |                  |
|               | LTE B7        | Bottom   | 1.137      | 0mm      | 104.6                  | 135.6  | 7.54 | 300.8            | 1.91              | 0.01          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
|               | BT_Ant1       | Bottom   | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 | 292.7            | 1.26              | 0.00          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
| Case 22(MIMO) | LTE B25       | Bottom   | 1.124      | 0mm      | 101                    | 135.5  | 7.32 | 100.3            | 1.62              | 0.02          | Not required     |
|               | BT_Ant1       | Face     | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 |                  |                   |               |                  |
|               | LTE B25       | Bottom   | 1.124      | 0mm      | 101                    | 135.5  | 7.32 | 299.5            | 1.89              | 0.01          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
|               | BT_Ant1       | Bottom   | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 | 292.7            | 1.26              | 0.00          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
| Case 35(MIMO) | LTE B66       | Bottom   | 1.132      | 0mm      | 99.5                   | 135.5  | 7.48 | 98.8             | 1.63              | 0.02          | Not required     |
|               | BT_Ant1       | Face     | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 |                  |                   |               |                  |
|               | LTE B66       | Bottom   | 1.132      | 0mm      | 99.5                   | 135.5  | 7.48 | 299.0            | 1.90              | 0.01          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |
|               | BT_Ant1       | Bottom   | 0.494      | 0mm      | 1.2                    | 143.8  | 1.71 | 292.7            | 1.26              | 0.00          | Not required     |
|               | WLAN5G_Ant1+2 | Face     | 0.77       | 0mm      | 6.8                    | -148.8 | 4.23 |                  |                   |               |                  |

**Test Engineer : Bob Cheng, Tom Jiang and Sing Lim**

## **16. 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. Therefore, the measurement uncertainty table is not required in this report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## **17. 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 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
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- [9] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [10] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [11] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.