

## APPENDIX D: ANTENNA GROUPING ANALYSIS & JUSTIFICATION

### D.1 Sub6 Antenna Groups

The 2nd generation of Smart Transmit (GEN2) operates based on pre-defined sub6 antenna groups (AG) and mmW module groups (MG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

- a) Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside Smart Transmit is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs.

(or)

- b) Every antenna from each sub6 AG meets SPLSR criteria (Section 4.3.2(c) in FCC KDB 447498 D01) with every antenna from another sub6 AG. This criteria must be demonstrated for all antenna combinations for each pair of AGs.

This device supports two sub6 AG: AG0 and AG1, with AG0 having 4 antennas (A, B, C, D) and AG1 having 4 antennas (E, F, I, K), and two WIFI/BT antennas outside of Smart Transmit. The conditions are verified through the following criteria:

i) (SAR1 + SAR2 criteria): If SPLSR criteria is not used, then the highest reported SAR at  $P_{limit}$  (or  $P_{max}$  when  $P_{limit} > P_{max}$ ) for each antenna should be obtained out of all supported technologies and frequency bands for each DSI. Demonstrate that the sum of reported SAR of one antenna from each of the sub6 AGs and the sum of RF exposure from all supported radios outside of Smart Transmit should be less than the regulatory limit as given below for each DSI.

1. Obtain the worst-case reported SAR for each antenna group (i.e., maximum reported SAR at  $P_{limit}$  (or  $P_{max}$  when  $P_{limit} > P_{max}$ ) out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure for each external radio, and demonstrate that the sum of these RF exposures meets:  $\{ [\text{max.SAR.AG0} + \text{max.SAR.AG1}] + \text{WIFI/BT Ant 1} + \text{WIFI/BT Ant 2} \} \leq 1.6$  (for 1g, or 4.0 for 10g).

ii) (SPLSR criteria): For each antenna, obtain the highest reported SAR value at  $P_{limit}$  out of all supported technologies for each frequency band. Using these values, demonstrate for a given DSI that every antenna from one sub6 AG meets SPLSR criteria with every antenna in another sub6 AG for all frequency bands. This criteria must be demonstrated for all antenna pair combinations irrespective of supported simultaneous transmission scenarios as given below for each DSI:

- SPLSR criteria should be met for all antenna pair combinations of AG0 and AG1: {antenna (A, B, C, D) in AG0; antenna (E, F, I, K) in AG1. As it can be seen, these include all combinations of antenna groups, antennas, and frequency bands.

iii) (combination of SPLSR & SAR1+SAR2 criteria): If SPLSR criteria for all the combinations of sub6 antenna groups in (i) is demonstrated to show that each AG is mutually exclusive from other AGs, and if the WIFI/BT antennas supported outside of Smart Transmit do not meet SPLSR criteria, then the condition in (ii) reduces to:  $\{\text{max.SAR.AG0} + \text{WIFI/BT Ant 1} + \text{WIFI/BT Ant 2}\} \leq 1.6$  and  $\{\text{max.SAR.AG1} + \text{WIFI/BT Ant 1} + \text{WIFI/BT Ant 2}\} \leq 1.6$  for compliance demonstration (for 1g, or 4.0 for 10g).

|                                    |                                                                                                                                                                                                       |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Test Dates:<br>09/19/21 - 11/15/21 | DUT Type:<br>Portable Handset                                                                                                                                                                         |                       |                                                                                       | APPENDIX D:<br>Page 1 of 14     |

If SPLSR criteria evaluation and analysis is needed to determine compliance for a certain DSI configuration, SPLSR is performed by taking the highest reported SAR for each of the supported technologies and bands per antenna, along with the peak SAR locations. Per Qualcomm guidance, only Y-axis coordinates are recorded in the analysis for calculation simplicity (assumes all 0mm of separation on the x-axis). Peak locations are documented in Section D.7 below for each DSI configuration.

For bottom AG0, Y\_max coordinate represents the worst case hotspot location that is closest to the top AG1. Similarly, for top AG1, Y\_min coordinate represents the worst case hotspot location that is closest to the bottom AG0.

The following formula is used to calculate the SPLSR between AG0 and AG1 for each exposure configuration:

$$SPLSR = \frac{(Max\ SAR\ AG0 + Max\ SAR\ AG1)^{1.5}}{|Y_{max} - Y_{min}|}$$

## D.2 Head (DSI = 2) SAR Antenna Group Analysis

**Table D-1**  
**DSI=2 Held-to-ear AG0 Highest Reported SAR**

| AG0      |               |       |       |       |       |       |
|----------|---------------|-------|-------|-------|-------|-------|
| Head SAR | Configuration | A     | B     | C     | D     | Max   |
|          | Right Cheek   | 0.345 | 0.047 | 0.000 | 0.004 | 0.345 |
|          | Right Tilt    | 0.219 | 0.050 | 0.001 | 0.008 | 0.219 |
|          | Left Cheek    | 0.267 | 0.062 | 0.008 | 0.000 | 0.267 |
|          | Left Tilt     | 0.232 | 0.040 | 0.000 | 0.013 | 0.232 |

**Table D-2**  
**DSI=2 Held-to-ear AG1 Highest Reported SAR**

| AG1      |               |       |       |       |       |       |
|----------|---------------|-------|-------|-------|-------|-------|
| Head SAR | Configuration | E     | F     | I     | K     | Max   |
|          | Right Cheek   | 0.280 | 0.941 | 0.520 | 0.000 | 0.941 |
|          | Right Tilt    | 0.195 | 0.399 | 0.850 | 0.000 | 0.850 |
|          | Left Cheek    | 0.197 | 0.143 | 1.049 | 0.000 | 1.049 |
|          | Left Tilt     | 0.168 | 0.120 | 1.186 | 0.000 | 1.186 |

Please refer to Table E-1 in Appendix E for highest reported simultaneous held-to-ear SAR of WLAN/BT antennas.

**Table D-3**  
**DSI=2 Held-to-ear AG Verification**

|          | Configuration | AG0   | AG1   | WLAN/BT Worst-case Combination | AG0 + AG1 + WLAN/BT Worst-case |
|----------|---------------|-------|-------|--------------------------------|--------------------------------|
| Head SAR | Right Cheek   | 0.345 | 0.941 | 0.303                          | 1.589                          |
|          | Right Tilt    | 0.219 | 0.850 | 0.202                          | 1.271                          |
|          | Left Cheek    | 0.267 | 1.049 | 0.257                          | 1.573                          |
|          | Left Tilt     | 0.232 | 1.186 | 0.052                          | 1.470                          |

|                                    |                                                                                                                                                                                                              |                       |                                                                                       |                                 |
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### D.3 Body-worn (DSI = 0) SAR Antenna Group Analysis

**Table D-4**  
**DSI=0 Body-worn AG0 Highest Reported SAR**

| AG0          |               |       |       |       |       |       |
|--------------|---------------|-------|-------|-------|-------|-------|
| Bodyworn SAR | Configuration | A     | B     | C     | D     | Max   |
|              | Back          | 1.076 | 0.324 | 0.030 | 0.128 | 1.076 |

**Table D-5**  
**DSI=0 Body-worn AG1 Highest Reported SAR**

| AG1          |               |       |       |       |       |       |
|--------------|---------------|-------|-------|-------|-------|-------|
| Bodyworn SAR | Configuration | E     | F     | I     | K     | Max   |
|              | Back          | 0.012 | 0.182 | 0.190 | 0.055 | 0.190 |

Please refer to Table E-3 in Appendix E for highest reported simultaneous body-worn SAR of WLAN/BT antennas.

**Table D-6**  
**DSI=0 Body-worn AG Verification**

|              | Configuration | AG0   | AG1   | WLAN/BT Worst-case Combination | AG0 + AG1 + WLAN/BT Worst-case |
|--------------|---------------|-------|-------|--------------------------------|--------------------------------|
| Bodyworn SAR | Back          | 1.076 | 0.190 | 0.424                          | See Table Below                |

| Back            |       |          |       |          |                    |                     |       |
|-----------------|-------|----------|-------|----------|--------------------|---------------------|-------|
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant E     | 1.076 | N/A      | 0.012 | N/A      | 0.424              | 1.512               | N/A   |
| Ant A-Ant F     | 1.076 | -3.000   | 0.182 | 56.000   | 0.424              | See Note 2          | 0.02  |
| Ant A-Ant I     | 1.076 | -3.000   | 0.190 | 69.500   | 0.424              | See Note 2          | 0.02  |
| Ant A-Ant K     | 1.076 | N/A      | 0.055 | N/A      | 0.424              | 1.555               | N/A   |
| Ant B-Ant E     | 0.324 | N/A      | 0.012 | N/A      | 0.424              | 0.760               | N/A   |
| Ant B-Ant F     | 0.324 | N/A      | 0.182 | N/A      | 0.424              | 0.930               | N/A   |
| Ant B-Ant I     | 0.324 | N/A      | 0.190 | N/A      | 0.424              | 0.938               | N/A   |
| Ant B-Ant K     | 0.324 | N/A      | 0.055 | N/A      | 0.424              | 0.803               | N/A   |
| Ant C-Ant E     | 0.030 | N/A      | 0.012 | N/A      | 0.424              | 0.466               | N/A   |
| Ant C-Ant F     | 0.030 | N/A      | 0.182 | N/A      | 0.424              | 0.636               | N/A   |
| Ant C-Ant I     | 0.030 | N/A      | 0.190 | N/A      | 0.424              | 0.644               | N/A   |
| Ant C-Ant K     | 0.030 | N/A      | 0.055 | N/A      | 0.424              | 0.509               | N/A   |
| Ant D-Ant E     | 0.128 | N/A      | 0.012 | N/A      | 0.424              | 0.564               | N/A   |
| Ant D-Ant F     | 0.128 | N/A      | 0.182 | N/A      | 0.424              | 0.734               | N/A   |
| Ant D-Ant I     | 0.128 | N/A      | 0.190 | N/A      | 0.424              | 0.742               | N/A   |
| Ant D-Ant K     | 0.128 | N/A      | 0.055 | N/A      | 0.424              | 0.607               | N/A   |

**Notes:**

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, no further analysis is required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

|                                           |                                                                                                                                         |                              |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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## D.4 Hotspot (DSI = 3) SAR Antenna Group Analysis

**Table D-7**  
**DSI=3 Hotspot AG0 Highest Reported SAR**

| AG0         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Hotspot SAR | Configuration | A     | B     | C     | D     | Max   |
|             | Back          | 0.737 | 0.462 | 0.073 | 0.285 | 0.737 |
|             | Front         | 0.621 | 0.310 | 0.044 | 0.015 | 0.621 |
|             | Top           | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Bottom        | 1.258 | 0.585 | 0.019 | 0.056 | 1.258 |
|             | Right         | 0.459 | 0.000 | 0.000 | 0.016 | 0.459 |
|             | Left          | 0.439 | 0.458 | 0.122 | 0.000 | 0.458 |

**Table D-8**  
**DSI=3 Hotspot AG1 Highest Reported SAR**

| AG1         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Hotspot SAR | Configuration | E     | F     | I     | K     | Max   |
|             | Back          | 0.034 | 0.379 | 0.380 | 0.164 | 0.380 |
|             | Front         | 0.039 | 0.253 | 0.302 | 0.002 | 0.302 |
|             | Top           | 0.018 | 0.315 | 0.756 | 0.014 | 0.756 |
|             | Bottom        | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Right         | 0.000 | 0.000 | 0.154 | 0.000 | 0.154 |
|             | Left          | 0.013 | 0.674 | 0.000 | 0.000 | 0.674 |

Please refer to Table E-5 in Appendix E for highest reported simultaneous hotspot SAR of WLAN/BT antennas.

|                                           |                                                                                                                                                                                                                                     |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>09/19/21 - 11/15/21 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                                                |                              |                                                                                       | APPENDIX D:<br>Page 4 of 14            |

**Table D-9**  
**DSI=3 Hotspot AG Verification**

|             | Configuration | AG0   | AG1   | WLAN/BT Worst-case Combination | AG0 + AG1 + WLAN/BT Worst-case |
|-------------|---------------|-------|-------|--------------------------------|--------------------------------|
| Hotspot SAR | Back          | 0.737 | 0.380 | 0.673                          | See Table Below                |
|             | Front         | 0.621 | 0.302 | 0.502                          | 1.425                          |
|             | Top           | 0.000 | 0.756 | 0.460                          | 1.216                          |
|             | Bottom        | 1.258 | 0.000 | -                              | 1.258                          |
|             | Right         | 0.459 | 0.154 | -                              | 0.613                          |
|             | Left          | 0.458 | 0.674 | 0.188                          | 1.320                          |

| Back            |       |          |       |          |                    |                     |       |
|-----------------|-------|----------|-------|----------|--------------------|---------------------|-------|
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant E     | 0.737 | N/A      | 0.034 | N/A      | 0.673              | 1.444               | N/A   |
| Ant A-Ant F     | 0.737 | -61.500  | 0.379 | 57.200   | 0.673              | See Note 2          | 0.01  |
| Ant A-Ant I     | 0.737 | -61.500  | 0.380 | 64.000   | 0.673              | See Note 2          | 0.01  |
| Ant A-Ant K     | 0.737 | N/A      | 0.164 | N/A      | 0.673              | 1.574               | N/A   |
| Ant B-Ant E     | 0.462 | N/A      | 0.034 | N/A      | 0.673              | 1.169               | N/A   |
| Ant B-Ant F     | 0.462 | N/A      | 0.379 | N/A      | 0.673              | 1.514               | N/A   |
| Ant B-Ant I     | 0.462 | N/A      | 0.380 | N/A      | 0.673              | 1.515               | N/A   |
| Ant B-Ant K     | 0.462 | N/A      | 0.164 | N/A      | 0.673              | 1.299               | N/A   |
| Ant C-Ant E     | 0.073 | N/A      | 0.034 | N/A      | 0.673              | 0.780               | N/A   |
| Ant C-Ant F     | 0.073 | N/A      | 0.379 | N/A      | 0.673              | 1.125               | N/A   |
| Ant C-Ant I     | 0.073 | N/A      | 0.380 | N/A      | 0.673              | 1.126               | N/A   |
| Ant C-Ant K     | 0.073 | N/A      | 0.164 | N/A      | 0.673              | 0.910               | N/A   |
| Ant D-Ant E     | 0.285 | N/A      | 0.034 | N/A      | 0.673              | 0.992               | N/A   |
| Ant D-Ant F     | 0.285 | N/A      | 0.379 | N/A      | 0.673              | 1.337               | N/A   |
| Ant D-Ant I     | 0.285 | N/A      | 0.380 | N/A      | 0.673              | 1.338               | N/A   |
| Ant D-Ant K     | 0.285 | N/A      | 0.164 | N/A      | 0.673              | 1.122               | N/A   |

**Notes:**

1. For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, no further analysis is required for compliance demonstration.
2. No evaluation was performed to determine the aggregate 1g SAR for these configurations as the SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

|                                           |                                                                                                                                         |                              |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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## D.5 Max Phablet (DSI = 0) SAR Antenna Group Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

**Table D-10**  
**DSI=0 Max Phablet AG0 Highest Reported SAR**

| AG0         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Phablet SAR | Configuration | A     | B     | C     | D     | Max   |
|             | Back          | 1.386 | 0.419 | 0.000 | 0.758 | 1.386 |
|             | Front         | 1.428 | 0.429 | 0.000 | 0.000 | 1.428 |
|             | Top           | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Bottom        | 1.611 | 0.387 | 0.000 | 0.000 | 1.611 |
|             | Right         | 0.478 | 0.000 | 0.000 | 0.000 | 0.478 |
|             | Left          | 1.135 | 2.540 | 0.000 | 0.000 | 2.540 |

**Table D-11**  
**DSI=0 Max Phablet AG1 Highest Reported SAR**

| AG1         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Phablet SAR | Configuration | E     | F     | I     | K     | Max   |
|             | Back          | 0.000 | 1.212 | 1.435 | 0.836 | 1.435 |
|             | Front         | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Top           | 0.000 | 0.000 | 3.144 | 0.000 | 3.144 |
|             | Bottom        | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Right         | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Left          | 0.000 | 2.587 | 0.000 | 0.000 | 2.587 |

Please refer to Table E-7 in Appendix E for highest reported simultaneous phablet SAR of WLAN/BT antennas.

|                                    |                                                                                                                                                 |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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**Table D-12**  
**DSI=0 Max Phablet AG Verification**

|             | Configuration | AG0   | AG1   | WLAN/BT Worst-case Combination | AG0 + AG1 + WLAN/BT Worst-case |
|-------------|---------------|-------|-------|--------------------------------|--------------------------------|
| Phablet SAR | Back          | 1.386 | 1.435 | 1.303                          | See Table Below                |
|             | Front         | 1.428 | 0.000 | 0.535                          | 1.963                          |
|             | Top           | 0.000 | 3.144 | 0.072                          | 3.216                          |
|             | Bottom        | 1.611 | 0.000 | -                              | 1.611                          |
|             | Right         | 0.478 | 0.000 | -                              | 0.478                          |
|             | Left          | 2.540 | 2.587 | 0.518                          | See Table Below                |

| Back            |       |          |       |          |                    |                     |       |
|-----------------|-------|----------|-------|----------|--------------------|---------------------|-------|
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant F     | 1.386 | N/A      | 1.212 | N/A      | 1.303              | 3.901               | N/A   |
| Ant A-Ant I     | 1.386 | -75.000  | 1.435 | 75.400   | 1.303              | See Note 2          | 0.03  |
| Ant A-Ant K     | 1.386 | N/A      | 0.836 | N/A      | 1.303              | 3.525               | N/A   |
| Ant B-Ant F     | 0.419 | N/A      | 1.212 | N/A      | 1.303              | 2.934               | N/A   |
| Ant B-Ant I     | 0.419 | N/A      | 1.435 | N/A      | 1.303              | 3.157               | N/A   |
| Ant B-Ant K     | 0.419 | N/A      | 0.836 | N/A      | 1.303              | 2.558               | N/A   |
| Ant D-Ant F     | 0.758 | N/A      | 1.212 | N/A      | 1.303              | 3.273               | N/A   |
| Ant D-Ant I     | 0.758 | N/A      | 1.435 | N/A      | 1.303              | 3.496               | N/A   |
| Ant D-Ant K     | 0.758 | N/A      | 0.836 | N/A      | 1.303              | 2.897               | N/A   |
| Left            |       |          |       |          |                    |                     |       |
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant F     | 1.135 | -59.300  | 2.587 | 60.200   | 0.518              | See Note 2          | 0.06  |
| Ant B-Ant F     | 2.540 | -61.100  | 2.587 | 60.200   | 0.518              | See Note 2          | 0.10  |

**Notes:**

- For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, no further analysis is required for compliance demonstration.
- No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLSR ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

|                                           |                                                                                                                                                 |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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## D.6 Reduced Phablet (DSI = 1) SAR Antenna Group Analysis

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

**Table D-13**  
**DSI=1 Reduced Phablet AG0 Highest Reported SAR**

| AG0         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Phablet SAR | Configuration | A     | B     | C     | D     | Max   |
|             | Back          | 2.870 | 3.010 | 0.000 | 0.758 | 3.010 |
|             | Front         | 2.402 | 1.711 | 0.000 | 0.000 | 2.402 |
|             | Top           | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Bottom        | 3.144 | 1.765 | 0.000 | 0.000 | 3.144 |
|             | Right         | 0.478 | 0.000 | 0.000 | 0.000 | 0.478 |
|             | Left          | 1.135 | 2.540 | 0.000 | 0.000 | 2.540 |

**Table D-14**  
**DSI=1 Reduced Phablet AG1 Highest Reported SAR**

| AG1         |               |       |       |       |       |       |
|-------------|---------------|-------|-------|-------|-------|-------|
| Phablet SAR | Configuration | E     | F     | I     | K     | Max   |
|             | Back          | 0.000 | 1.212 | 1.435 | 0.836 | 1.435 |
|             | Front         | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Top           | 0.000 | 0.000 | 3.144 | 0.000 | 3.144 |
|             | Bottom        | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Right         | 0.000 | 0.000 | 0.000 | 0.000 | -     |
|             | Left          | 0.000 | 2.587 | 0.000 | 0.000 | 2.587 |

Please refer to Table E-7 in Appendix E for highest reported simultaneous phablet SAR of WLAN/BT antennas.

|                                           |                                                                                                                                                                                                                             |                              |                                                                                       |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>09/19/21 - 11/15/21 | <b>DUT Type:</b><br>Portable Handset                                                                                                                                                                                        |                              |                                                                                       | APPENDIX D:<br>Page 8 of 14            |

**Table D-15**  
**DSI=1 Reduced Phablet AG Verification**

|             | Configuration | AG0   | AG1   | WLAN/BT Worst-case Combination | AG0 + AG1 + WLAN/BT Worst-case |
|-------------|---------------|-------|-------|--------------------------------|--------------------------------|
| Phablet SAR | Back          | 3.010 | 1.435 | 1.303                          | See Table Below                |
|             | Front         | 2.402 | 0.000 | 0.535                          | 2.937                          |
|             | Top           | 0.000 | 3.144 | 0.072                          | 3.216                          |
|             | Bottom        | 3.144 | 0.000 | -                              | 3.144                          |
|             | Right         | 0.478 | 0.000 | -                              | 0.478                          |
|             | Left          | 2.540 | 2.587 | 0.518                          | See Table Below                |

| Back            |       |          |       |          |                    |                     |       |
|-----------------|-------|----------|-------|----------|--------------------|---------------------|-------|
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant F     | 2.870 | -71.900  | 1.212 | 58.700   | 1.303              | See Note 2          | 0.06  |
| Ant A-Ant I     | 2.870 | -71.900  | 1.435 | 75.400   | 1.303              | See Note 2          | 0.06  |
| Ant A-Ant K     | 2.870 | -71.900  | 0.836 | 59.600   | 1.303              | See Note 2          | 0.05  |
| Ant B-Ant F     | 3.010 | -73.100  | 1.212 | 58.700   | 1.303              | See Note 2          | 0.07  |
| Ant B-Ant I     | 3.010 | -73.100  | 1.435 | 75.400   | 1.303              | See Note 2          | 0.06  |
| Ant B-Ant K     | 3.010 | -73.100  | 0.836 | 59.600   | 1.303              | See Note 2          | 0.06  |
| Ant D-Ant F     | 0.758 | N/A      | 1.212 | N/A      | 1.303              | 3.273               | N/A   |
| Ant D-Ant I     | 0.758 | N/A      | 1.435 | N/A      | 1.303              | 3.496               | N/A   |
| Ant D-Ant K     | 0.758 | N/A      | 0.836 | N/A      | 1.303              | 2.897               | N/A   |
| Left            |       |          |       |          |                    |                     |       |
| Ant Combination | AG0   |          | AG1   |          | WLAN/BT Worst-case | AG0 + AG1 + WLAN/BT | SPLSR |
|                 | SAR   | Position | SAR   | Position |                    |                     |       |
| Ant A-Ant F     | 1.135 | -59.300  | 2.587 | 60.200   | 0.518              | See Note 2          | 0.06  |
| Ant B-Ant F     | 2.540 | -61.100  | 2.587 | 60.200   | 0.518              | See Note 2          | 0.10  |

**Notes:**

- For all combinations where the sum of AG0+AG1+WLAN/BT is less than 1.6 W/kg, no further analysis is required for compliance demonstration.
- No evaluation was performed to determine the aggregate 10g SAR for these configurations as the SPLSR ratio between the antenna pairs was not greater than 0.10 per FCC KDB 447498 D01v06. Please see Section D.7 for Y-axis peak locations.

|                                           |                                                                                                                                                 |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>09/19/21 - 11/15/21 | <b>DUT Type:</b><br>Portable Handset                                                                                                            |                              |                                                                                       | APPENDIX D:<br>Page 9 of 14            |

## D.7 Highest Report SAR and SAR Hotspot Locations

As a conservative assessment, the distances between AG0 and AG1 were determined using the y-axis coordinates of the peak locations only (assumes 0 mm separation on x/z axis)

**Table D-16**  
**DSI=0 Body-worn Peak Y Coordinates**

|                    |               | AG0     | AG1    |        |
|--------------------|---------------|---------|--------|--------|
|                    |               | A       | F      | I      |
| Mode/Band          | Distance (mm) | 15      | 15     | 15     |
| GSM 850            | SAR           | 0.243   |        |        |
|                    | Y-Axis        | -3.000  |        |        |
| GSM 1900           | SAR           | 0.277   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| UMTS 850           | SAR           | 0.292   |        |        |
|                    | Y-Axis        | -3.000  |        |        |
| UMTS 1750          | SAR           | 0.843   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| UMTS 1900          | SAR           | 0.844   |        |        |
|                    | Y-Axis        | -84.500 |        |        |
| LTE Band 71        | SAR           | 0.286   |        |        |
|                    | Y-Axis        | -65.000 |        |        |
| LTE Band 12        | SAR           | 0.377   |        |        |
|                    | Y-Axis        | -55.500 |        |        |
| LTE Band 13        | SAR           | 0.350   |        |        |
|                    | Y-Axis        | -65.000 |        |        |
| LTE Band 14        | SAR           | 0.304   |        |        |
|                    | Y-Axis        | -65.000 |        |        |
| LTE Band 26 (Cell) | SAR           | 0.307   |        |        |
|                    | Y-Axis        | -64.500 |        |        |
| LTE Band 5 (Cell)  | SAR           | 0.255   |        |        |
|                    | Y-Axis        | -66.000 |        |        |
| LTE Band 66 (AWS)  | SAR           | 1.026   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| LTE Band 25 (PCS)  | SAR           | 1.021   |        |        |
|                    | Y-Axis        | -81.000 |        |        |
| LTE Band 30        | SAR           | 0.518   |        |        |
|                    | Y-Axis        | -75.000 |        |        |
| LTE Band 48        | SAR           |         | 0.182  |        |
|                    | Y-Axis        |         | 79.000 |        |
| NR Band n71        | SAR           | 0.244   |        |        |
|                    | Y-Axis        | -69.000 |        |        |
| NR Band n12        | SAR           | 0.400   |        |        |
|                    | Y-Axis        | -49.500 |        |        |
| NR Band n5 (Cell)  | SAR           | 0.308   |        |        |
|                    | Y-Axis        | -66.000 |        |        |
| NR Band n66 (AWS)  | SAR           | 1.076   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| NR Band n66 (AWS)  | SAR           |         |        | 0.176  |
|                    | Y-Axis        |         |        | 75.000 |
| NR Band n25 (PCS)  | SAR           | 0.998   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| NR Band n25 (PCS)  | SAR           |         |        | 0.157  |
|                    | Y-Axis        |         |        | 80.000 |
| NR Band n30        | SAR           | 0.499   |        |        |
|                    | Y-Axis        | -75.600 |        |        |
| NR Band n30        | SAR           |         |        | 0.123  |
|                    | Y-Axis        |         |        | 74.800 |
| NR Band n41        | SAR           |         |        | 0.190  |
|                    | Y-Axis        |         |        | 69.500 |
| NR Band n77 DoD    | SAR           |         | 0.046  |        |
|                    | Y-Axis        |         | 68.000 |        |
| NR Band n77        | SAR           |         | 0.124  |        |
|                    | Y-Axis        |         | 56.000 |        |

|                                    |                                                                                                                                                                                                       |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Test Dates:<br>09/19/21 - 11/15/21 | DUT Type:<br>Portable Handset                                                                                                                                                                         |                       |                                                                                       | APPENDIX D:<br>Page 10 of 14    |

**Table D-17**  
**DSI=3 Back Side Peak Y Coordinates**

|                    |               | AG0     | AG1    |        |
|--------------------|---------------|---------|--------|--------|
|                    |               | A       | F      | I      |
| Mode/Band          | Distance (mm) | 10      | 10     | 10     |
| GSM 850            | SAR           | 0.580   |        |        |
|                    | Y-Axis        | -61.500 |        |        |
| GSM 1900           | SAR           | 0.476   |        |        |
|                    | Y-Axis        | -79.500 |        |        |
| UMTS 850           | SAR           | 0.513   |        |        |
|                    | Y-Axis        | -67.500 |        |        |
| UMTS 1750          | SAR           | 0.634   |        |        |
|                    | Y-Axis        | -78.000 |        |        |
| UMTS 1900          | SAR           | 0.562   |        |        |
|                    | Y-Axis        | -83.000 |        |        |
| LTE Band 71        | SAR           | 0.446   |        |        |
|                    | Y-Axis        | -70.500 |        |        |
| LTE Band 12        | SAR           | 0.580   |        |        |
|                    | Y-Axis        | -67.500 |        |        |
| LTE Band 13        | SAR           | 0.708   |        |        |
|                    | Y-Axis        | -67.500 |        |        |
| LTE Band 14        | SAR           | 0.646   |        |        |
|                    | Y-Axis        | -69.000 |        |        |
| LTE Band 26 (Cell) | SAR           | 0.681   |        |        |
|                    | Y-Axis        | -61.500 |        |        |
| LTE Band 5 (Cell)  | SAR           | 0.595   |        |        |
|                    | Y-Axis        | -66.000 |        |        |
| LTE Band 66 (AWS)  | SAR           | 0.663   |        |        |
|                    | Y-Axis        | -78.000 |        |        |
| LTE Band 25 (PCS)  | SAR           | 0.602   |        |        |
|                    | Y-Axis        | -81.000 |        |        |
| LTE Band 30        | SAR           | 0.396   |        |        |
|                    | Y-Axis        | -72.500 |        |        |
| LTE Band 48        | SAR           |         | 0.379  |        |
|                    | Y-Axis        |         | 74.000 |        |
| NR Band n71        | SAR           | 0.413   |        |        |
|                    | Y-Axis        | -70.500 |        |        |
| NR Band n12        | SAR           | 0.623   |        |        |
|                    | Y-Axis        | -63.000 |        |        |
| NR Band n5 (Cell)  | SAR           | 0.652   |        |        |
|                    | Y-Axis        | -67.500 |        |        |
| NR Band n66 (AWS)  | SAR           | 0.737   |        |        |
|                    | Y-Axis        | -75.000 |        |        |
| NR Band n25 (PCS)  | SAR           | 0.657   |        |        |
|                    | Y-Axis        | -81.000 |        |        |
| NR Band n30        | SAR           | 0.428   |        |        |
|                    | Y-Axis        | -79.100 |        |        |
| NR Band n66 (AWS)  | SAR           |         |        | 0.380  |
|                    | Y-Axis        |         |        | 75.000 |
| NR Band n25 (PCS)  | SAR           |         |        | 0.364  |
|                    | Y-Axis        |         |        | 80.000 |
| NR Band n30        | SAR           |         |        | 0.256  |
|                    | Y-Axis        |         |        | 71.900 |
| NR Band n41        | SAR           |         |        | 0.364  |
|                    | Y-Axis        |         |        | 64.000 |
| NR Band n77 DoD    | SAR           |         | 0.090  |        |
|                    | Y-Axis        |         | 69.500 |        |
| NR Band n77        | SAR           |         | 0.279  |        |
|                    | Y-Axis        |         | 57.200 |        |

|                                           |                                                                                                                                         |                              |                                                                                       |                                        |
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| <b>Test Dates:</b><br>09/19/21 - 11/15/21 | <b>DUT Type:</b><br>Portable Handset                                                                                                    |                              |                                                                                       | APPENDIX D:<br>Page 11 of 14           |

**Table D-18**  
**DSI=0 Back Side Max Phablet Peak Y Coordinates**

|                   |               | AG0     | AG1    |
|-------------------|---------------|---------|--------|
|                   |               | A       | I      |
| Mode/Band         | Distance (mm) | 8       | 0      |
| GSM 1900          | SAR           | 0.563   |        |
|                   | Y-Axis        | -78.000 |        |
| UMTS 1750         | SAR           | 1.151   |        |
|                   | Y-Axis        | -76.500 |        |
| UMTS 1900         | SAR           | 1.037   |        |
|                   | Y-Axis        | -84.000 |        |
| LTE Band 66 (AWS) | SAR           | 1.147   |        |
|                   | Y-Axis        | -79.500 |        |
| LTE Band 25 (PCS) | SAR           | 1.239   |        |
|                   | Y-Axis        | -81.000 |        |
| LTE Band 30       | SAR           | 0.730   |        |
|                   | Y-Axis        | -77.000 |        |
| NR Band n66 (AWS) | SAR           | 1.386   |        |
|                   | Y-Axis        | -78.000 |        |
| NR Band n25 (PCS) | SAR           | 1.112   |        |
|                   | Y-Axis        | -75.000 |        |
| NR Band n30       | SAR           | 0.674   |        |
|                   | Y-Axis        | -77.800 |        |
| NR Band n41       | SAR           |         | 1.435  |
|                   | Y-Axis        |         | 75.400 |

|                                           |                                                                                                                                                 |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>09/19/21 - 11/15/21 | <b>DUT Type:</b><br>Portable Handset                                                                                                            |                              |                                                                                       | APPENDIX D:<br>Page 12 of 14           |

**Table D-19**  
**DSI=0/1 Left Edge Max Phablet Peak Y Coordinates**

|                   |               | AG0     |         | AG1    |
|-------------------|---------------|---------|---------|--------|
|                   |               | A       | B       | F      |
| Mode/Band         | Distance (mm) | 0       | 0       | 0      |
| GSM 1900          | SAR           | 0.505   |         |        |
|                   | Y-Axis        | -64.500 |         |        |
| UMTS 1750         | SAR           | 0.768   |         |        |
|                   | Y-Axis        | -63.000 |         |        |
| UMTS 1900         | SAR           | 0.686   |         |        |
|                   | Y-Axis        | -63.000 |         |        |
| LTE Band 66 (AWS) | SAR           | 0.848   |         |        |
|                   | Y-Axis        | -66.000 |         |        |
| LTE Band 25 (PCS) | SAR           | 0.814   |         |        |
|                   | Y-Axis        | -73.500 |         |        |
| LTE Band 30       | SAR           | 1.135   |         |        |
|                   | Y-Axis        | -59.300 |         |        |
| LTE Band 7        | SAR           |         | 2.239   |        |
|                   | Y-Axis        |         | -61.100 |        |
| LTE Band 41       | SAR           |         | 2.241   |        |
|                   | Y-Axis        |         | -65.500 |        |
| NR Band n66 (AWS) | SAR           | 1.024   |         |        |
|                   | Y-Axis        | -66.000 |         |        |
| NR Band n25 (PCS) | SAR           | 0.744   |         |        |
|                   | Y-Axis        | -67.500 |         |        |
| NR Band n30       | SAR           | 1.127   |         |        |
|                   | Y-Axis        | -61.700 |         |        |
| NR Band n7        | SAR           |         | 2.540   |        |
|                   | Y-Axis        |         | -62.800 |        |
| NR Band n77 DoD   | SAR           |         |         | 1.752  |
|                   | Y-Axis        |         |         | 62.100 |
| NR Band n77       | SAR           |         |         | 2.587  |
|                   | Y-Axis        |         |         | 60.200 |

|                                           |                                                                                                                                                 |                              |                                                                                       |                                        |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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**Table D-20**  
**DSI=1 Back Side Reduced Phablet Peak Y Coordinates**

|                   |               | AG0     |         | AG1    |        |        |
|-------------------|---------------|---------|---------|--------|--------|--------|
|                   |               | A       | B       | F      | I      | K      |
| Mode/Band         | Distance (mm) | 0       | 0       | 0      | 0      | 0      |
| GSM 1900          | SAR           | 1.646   |         |        |        |        |
|                   | Y-Axis        | -75.000 |         |        |        |        |
| UMTS 1750         | SAR           | 2.487   |         |        |        |        |
|                   | Y-Axis        | -73.500 |         |        |        |        |
| UMTS 1900         | SAR           | 2.439   |         |        |        |        |
|                   | Y-Axis        | -75.000 |         |        |        |        |
| LTE Band 66 (AWS) | SAR           | 1.407   |         |        |        |        |
|                   | Y-Axis        | -81.500 |         |        |        |        |
| LTE Band 25 (PCS) | SAR           | 2.146   |         |        |        |        |
|                   | Y-Axis        | -75.900 |         |        |        |        |
| LTE Band 30       | SAR           | 2.690   |         |        |        |        |
|                   | Y-Axis        | -74.100 |         |        |        |        |
| LTE Band 7        | SAR           |         | 3.010   |        |        |        |
|                   | Y-Axis        |         | -73.100 |        |        |        |
| LTE Band 41       | SAR           |         | 2.131   |        |        |        |
|                   | Y-Axis        |         | -73.100 |        |        |        |
| NR Band n66 (AWS) | SAR           | 2.870   |         |        |        |        |
|                   | Y-Axis        | -75.000 |         |        |        |        |
| NR Band n25 (PCS) | SAR           | 1.885   |         |        |        |        |
|                   | Y-Axis        | -75.000 |         |        |        |        |
| NR Band n30       | SAR           | 2.753   |         |        |        |        |
|                   | Y-Axis        | -71.900 |         |        |        |        |
| NR Band n7        | SAR           |         | 2.841   |        |        |        |
|                   | Y-Axis        |         | -76.900 |        |        |        |
| NR Band n41       | SAR           |         |         |        | 1.435  |        |
|                   | Y-Axis        |         |         |        | 75.400 |        |
| NR Band n77       | SAR           |         |         | 1.212  |        |        |
|                   | Y-Axis        |         |         | 58.700 |        |        |
| NR Band n77       | SAR           |         |         |        |        | 0.836  |
|                   | Y-Axis        |         |         |        |        | 59.600 |

## D.8 Conclusion

The above SPLSR criteria for all of the combinations of sub6 antenna groups is demonstrated to show that AG0 is mutually exclusive from AG1. Additional analysis for simultaneous analysis for the antenna groups and WIFI/BT antennas compliance demonstration is included in Appendix E

|                                           |                                                                                                                                                                                                                                            |                              |                                                                                       |                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
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