

## APPENDIX E: CELLULAR ANTENNA CLUSTERING VALIDATION

### E.1 Introduction

This device supports cellular antenna clustering which are co-located cellular antennas with significant overlap of RF exposure hotspots grouped together in a single cluster. All RF exposure for cellular antennas in the same cluster are aggregated and always will be maintained less than an assigned budget cap that maintains overall device compliance. Cellular antennas proven spatially separated from all antennas in a cluster may be grouped in a separate cluster.

This evaluation report is to comply with Apple's validation method for proving spatial separation between cellular antennas assigned to separate clusters.

This device also supports a dynamic budget sharing algorithm. It enables separate budget caps for the cellular standalone and cellular simultaneous use conditions. In cellular standalone operation, only the cellular radio is active; in cellular simultaneous operation, other radios (i.e. connectivity antennas) are operational concurrently. Additionally, connectivity radios have two different budget conditions depending on the cellular budget caps. When the cellular budget is 1.0 W/kg, the connectivity budget is 0.6 W/kg. However, when the cellular budget is 1.2 W/kg, the connectivity budget is 0.4 W/kg. For the purposes of this evaluation, the highest cellular budget of 1.2 W/kg and connectivity budget of 0.4 W/kg was used.

In certain scenarios where power levels are reduced, SAR values measured at the maximum power level are used to ensure a conservative evaluation in simultaneous transmission analysis. When SPLSR evaluation is required, the most conservative peak separation distance is applied to represent the worst-case condition. Additionally, when multiple antennas are part of the same cluster, the highest SAR value and the shortest separation distance among them are used for the simultaneous transmission assessment.

When performing antenna clustering summation and SPLSR calculation, Total Exposure Ratio (TER) may be used for evaluation.

Exposure Ratio (ER) for different transmitters is calculated as following:

$$ER_{SAR,n} = \frac{SAR_n}{SAR_{limit,n}}$$

Where:

- $SAR_n$  is the SAR value for the  $n$ -th transmitter/test frequency
- $SAR_{limit,n}$  is the basic restriction limit that is applicable to the  $n$ -th transmitter/test frequency

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## E.2 (Step 1): Antenna Cluster Definition

The table below describes the antennas that are considered for each antenna cluster (AC).

| Antenna Cluster | Cellular Antenna |        |        |        | Connectivity Antenna |        |
|-----------------|------------------|--------|--------|--------|----------------------|--------|
| AC 1            | Ant 3a           | Ant 3b | Ant 4  |        | Ant 3a               | Ant 3c |
| AC 2            | Ant 1a           | Ant 1b | Ant 2a | Ant 2b | Ant 1a               | Ant 1b |

## E.3 (Step 2): Antenna Combinations for spatial separation analysis

Spatial separation will be assessed per combination of antennas per cluster that supports simultaneous transmission.

| Simultaneous Operation Support |                        |
|--------------------------------|------------------------|
| AC 1                           | AC 2                   |
| Ant 3a + Ant 3a/Ant 3c         | Ant 2a + Ant 1a/Ant 1b |
| Ant 3b + Ant 3a/Ant 3c         | Ant 2b + Ant 1a/Ant 1b |
| Ant 4 + Ant 3a/Ant 3c          | Ant 1a + Ant 1a/Ant 1b |
|                                | Ant 1b + Ant 1a/Ant 1b |

| Antenna Combination | AC 1                   | AC 2                   |
|---------------------|------------------------|------------------------|
| 1                   | Ant 3a + Ant 3a/Ant 3c | Ant 2a + Ant 1a/Ant 1b |
| 2                   | Ant 3a + Ant 3a/Ant 3c | Ant 2b + Ant 1a/Ant 1b |
| 3                   | Ant 3a + Ant 3a/Ant 3c | Ant 1a + Ant 1a/Ant 1b |
| 4                   | Ant 3a + Ant 3a/Ant 3c | Ant 1b + Ant 1a/Ant 1b |
| 5                   | Ant 3b + Ant 3a/Ant 3c | Ant 2a + Ant 1a/Ant 1b |
| 6                   | Ant 3b + Ant 3a/Ant 3c | Ant 2b + Ant 1a/Ant 1b |
| 7                   | Ant 3b + Ant 3a/Ant 3c | Ant 1a + Ant 1a/Ant 1b |
| 8                   | Ant 3b + Ant 3a/Ant 3c | Ant 1b + Ant 1a/Ant 1b |
| 9                   | Ant 4 + Ant 3a/Ant 3c  | Ant 2a + Ant 1a/Ant 1b |
| 10                  | Ant 4 + Ant 3a/Ant 3c  | Ant 2b + Ant 1a/Ant 1b |
| 11                  | Ant 4 + Ant 3a/Ant 3c  | Ant 1a + Ant 1a/Ant 1b |
| 12                  | Ant 4 + Ant 3a/Ant 3c  | Ant 1b + Ant 1a/Ant 1b |

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## E.4 (Step 3, 4, &5): Antenna Clustering Analysis Summation and SPLSR

### E.4.1 Combination 1: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

#### E.4.1.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n70 | Ant 3a 2.4 GHz WIFI | 1.183 + 0.400 | 0.739 + 0.250 | 0.989        |
| Ant 3a NR Band n30 | Ant 3a 2.4 GHz WIFI | 1.176 + 0.400 | 0.735 + 0.250 | 0.985        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n48 | Ant 1b 5 GHz WIFI | 0.857 + 0.370 | 0.536 + 0.231 | 0.767        |

#### E.4.1.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.989             | 0.767             | 1.756             | 188.63                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.985             | 0.767             | 1.752             | 188.63                        | 0.01       |

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## E.4.2 Combination 1: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.2.1 Top Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 25 | Ant 3c 5 GHz WIFI | 1.084 + 0.400 | 0.678 + 0.250 | 0.928        |
| Ant 3a NR Band n30 | Ant 3c 5 GHz WIFI | 0.511 + 0.400 | 0.319 + 0.250 | 0.569        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.036 + 0.000 | 0.023 + 0.000 | 0.023        |

### E.4.2.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.928             | 0.023             | 0.951             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.569             | 0.023             | 0.592             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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### E.4.3 Combination 1: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

#### E.4.3.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 66 | Ant 3a 802.15.4 | 0.053 + 0.044 | 0.033 + 0.028 | 0.061        |
| Ant 3a LTE Band 30 | Ant 3a 802.15.4 | 0.064 + 0.044 | 0.040 + 0.028 | 0.068        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 0.585 + 0.400 | 0.366 + 0.250 | 0.616        |

#### E.4.3.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                      |                                        | a                 | b                 | a+b               |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.061             | 0.616             | 0.677             |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.068             | 0.616             | 0.684             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.4 Combination 1: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.4.1 Right Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 802.15.4 | 0.914 + 0.400 | 0.571 + 0.250 | 0.821        |
| Ant 3a LTE Band 41 | Ant 3a 802.15.4 | 1.160 + 0.400 | 0.725 + 0.250 | 0.975        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 1.190 + 0.037 | 0.744 + 0.023 | 0.767        |

### E.4.4.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                      |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.821             | 0.767             | 1.588             | 192.51                        | 0.01       |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.975             | 0.767             | 1.742             | 192.51                        | 0.01       |

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## E.4.5 Combination 1: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.5.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 5 GHz WIFI | 0.014 + 0.021 | 0.009 + 0.013 | 0.022        |
| Ant 3a LTE Band 30 | Ant 3a 5 GHz WIFI | 0.006 + 0.021 | 0.004 + 0.013 | 0.017        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1a 2.4 GHz WIFI | 0.005 + 0.400 | 0.003 + 0.250 | 0.253        |

### E.4.5.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.022             | 0.253             | 0.275             |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.017             | 0.253             | 0.270             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.1 Combination 2: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.1.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n70 | Ant 3a 2.4 GHz WIFI | 1.183 + 0.400 | 0.739 + 0.250 | 0.989        |
| Ant 3a NR Band n30 | Ant 3a 2.4 GHz WIFI | 1.176 + 0.400 | 0.735 + 0.250 | 0.985        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.580 + 0.370 | 0.363 + 0.231 | 0.594        |
| Ant 2b NR Band n7  | Ant 1b 5 GHz WIFI | 0.871 + 0.370 | 0.544 + 0.231 | 0.775        |

### E.4.1.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.989             | 0.594             | 1.583             | 194.67                        | 0.01       |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.989             | 0.775             | 1.764             | 194.67                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.985             | 0.594             | 1.579             | 194.67                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.985             | 0.775             | 1.760             | 194.67                        | 0.01       |

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## E.4.2 Combination 2: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.2.1 Top Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 25 | Ant 3c 5 GHz WIFI | 1.084 + 0.400 | 0.678 + 0.250 | 0.928        |
| Ant 3a NR Band n30 | Ant 3c 5 GHz WIFI | 0.511 + 0.400 | 0.319 + 0.250 | 0.569        |

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.022 + 0.000 | 0.014 + 0.000 | 0.014        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.023 + 0.000 | 0.014 + 0.000 | 0.014        |

### E.4.2.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                     | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                         | a                 | b                 | a+b               |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.928             | 0.014             | 0.942             |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.928             | 0.014             | 0.942             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.569             | 0.014             | 0.583             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.569             | 0.014             | 0.583             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.3 Combination 2: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.3.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 66 | Ant 3a 802.15.4 | 0.053 + 0.044 | 0.033 + 0.028 | 0.061        |
| Ant 3a LTE Band 30 | Ant 3a 802.15.4 | 0.064 + 0.044 | 0.040 + 0.028 | 0.068        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b LTE Band 25 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 2b NR Band n41 | Ant 1b 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.3.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio            | Aggregate 1g Reported SAR |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|-----------------------|---------------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                       |                           |
|                                      |                                        | a                 | b                 | a+b               | $D_{a,b}$                     | $(a+b)^{1.5}/D_{a,b}$ | (W/kg)                    |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.061             | 0.995             | 1.056             | 3.1                           | 0.35                  | 1.36                      |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.061             | 0.996             | 1.057             | 3.1                           | 0.35                  | 1.36                      |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.068             | 0.995             | 1.063             | 3.1                           | 0.35                  | 1.36                      |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.068             | 0.996             | 1.064             | 3.1                           | 0.35                  | 1.36                      |

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## E.4.4 Combination 2: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.4.1 Right Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 802.15.4 | 0.914 + 0.400 | 0.571 + 0.250 | 0.821        |
| Ant 3a LTE Band 41 | Ant 3a 802.15.4 | 1.160 + 0.400 | 0.725 + 0.250 | 0.975        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.093 + 0.037 | 0.058 + 0.023 | 0.081        |
| Ant 2b LTE Band 30 | Ant 1b 5 GHz WIFI | 0.065 + 0.037 | 0.041 + 0.023 | 0.064        |

### E.4.4.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                      |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.821             | 0.081             | 0.902             | 174.71                        | N/A        |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.821             | 0.064             | 0.885             | 174.71                        | N/A        |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.975             | 0.081             | 1.056             | 174.71                        | 0.01       |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.975             | 0.064             | 1.039             | 174.71                        | 0.01       |

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## E.4.5 Combination 2: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.5.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 5 GHz WIFI | 0.014 + 0.021 | 0.009 + 0.013 | 0.022        |
| Ant 3a LTE Band 30 | Ant 3a 5 GHz WIFI | 0.006 + 0.021 | 0.004 + 0.013 | 0.017        |

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.026 + 0.400 | 0.016 + 0.250 | 0.266        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.025 + 0.400 | 0.016 + 0.250 | 0.266        |

### E.4.5.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                     | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                         | a                 | b                 | a+b               |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.022             | 0.266             | 0.288             |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.022             | 0.266             | 0.288             |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.017             | 0.266             | 0.283             |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.017             | 0.266             | 0.283             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.6 Combination 3: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.6.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n70 | Ant 3a 2.4 GHz WIFI | 1.183 + 0.400 | 0.739 + 0.250 | 0.989        |
| Ant 3a NR Band n30 | Ant 3a 2.4 GHz WIFI | 1.176 + 0.400 | 0.735 + 0.250 | 0.985        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1b 5 GHz WIFI | 0.724 + 0.370 | 0.453 + 0.231 | 0.684        |

### E.4.6.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.989             | 0.684             | 1.673             | 223.03                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.985             | 0.684             | 1.669             | 223.03                        | 0.01       |

|                            |                    |                                   |
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## E.4.7 Combination 3: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.7.1 Top Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 25 | Ant 3c 5 GHz WIFI | 1.084 + 0.400 | 0.678 + 0.250 | 0.928        |
| Ant 3a NR Band n30 | Ant 3c 5 GHz WIFI | 0.511 + 0.400 | 0.319 + 0.250 | 0.569        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.019 + 0.000 | 0.012 + 0.000 | 0.012        |

### E.4.7.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.928             | 0.012             | 0.940             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.569             | 0.012             | 0.581             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.8 Combination 3: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.8.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 66 | Ant 3a 802.15.4 | 0.053 + 0.044 | 0.033 + 0.028 | 0.061        |
| Ant 3a LTE Band 30 | Ant 3a 802.15.4 | 0.064 + 0.044 | 0.040 + 0.028 | 0.068        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.414 + 0.400 | 0.259 + 0.250 | 0.509        |

### E.4.8.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                      |                                        | a                 | b                 | a+b               |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.061             | 0.509             | 0.570             |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.068             | 0.509             | 0.577             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.9 Combination 3: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.9.1 Right Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 802.15.4 | 0.914 + 0.400 | 0.571 + 0.250 | 0.821        |
| Ant 3a LTE Band 41 | Ant 3a 802.15.4 | 1.160 + 0.400 | 0.725 + 0.250 | 0.975        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.006 + 0.037 | 0.004 + 0.023 | 0.027        |

### E.4.9.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                      |                                        | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.821             | 0.027             | 0.848             | 192.51                        | N/A        |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.975             | 0.027             | 1.002             | 192.51                        | 0.01       |

|                            |                    |                                   |
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## E.4.10 Combination 3: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.10.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 5 GHz WIFI | 0.014 + 0.021 | 0.009 + 0.013 | 0.022        |
| Ant 3a LTE Band 30 | Ant 3a 5 GHz WIFI | 0.006 + 0.021 | 0.004 + 0.013 | 0.017        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1a 2.4 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.10.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                        |                                          | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.022             | 0.996             | 1.018             | 199.3                         | 0.01       |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.017             | 0.996             | 1.013             | 199.3                         | 0.01       |

|                            |                    |                                   |
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## E.4.11 Combination 4: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.11.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n70 | Ant 3a 2.4 GHz WIFI | 1.183 + 0.400 | 0.739 + 0.250 | 0.989        |
| Ant 3a NR Band n30 | Ant 3a 2.4 GHz WIFI | 1.176 + 0.400 | 0.735 + 0.250 | 0.985        |

  

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.807 + 0.370 | 0.504 + 0.231 | 0.735        |
| Ant 1b LTE Band 7 | Ant 1b 5 GHz WIFI | 1.173 + 0.370 | 0.733 + 0.231 | 0.964        |

### E.4.11.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                   | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                       | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.989             | 0.735             | 1.724             | 223.03                        | 0.01       |
| Ant 3a NR Band n70 + Ant 3a 2.4 GHz WIFI | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.989             | 0.964             | 1.953             | 223.03                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.985             | 0.735             | 1.720             | 223.03                        | 0.01       |
| Ant 3a NR Band n30 + Ant 3a 2.4 GHz WIFI | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.985             | 0.964             | 1.949             | 223.03                        | 0.01       |

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## E.4.12 Combination 4: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.12.1 Top Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 25 | Ant 3c 5 GHz WIFI | 1.084 + 0.400 | 0.678 + 0.250 | 0.928        |
| Ant 3a NR Band n30 | Ant 3c 5 GHz WIFI | 0.511 + 0.400 | 0.319 + 0.250 | 0.569        |

  

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b NR Band n25 | Ant 1a 2.4 GHz WIFI | 0.016 + 0.000 | 0.010 + 0.000 | 0.010        |
| Ant 1b LTE Band 30 | Ant 1a 2.4 GHz WIFI | 0.007 + 0.000 | 0.004 + 0.000 | 0.004        |

### E.4.12.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.928             | 0.010             | 0.938             |
| Ant 3a LTE Band 25 + Ant 3c 5 GHz WIFI | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.928             | 0.004             | 0.932             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.569             | 0.010             | 0.579             |
| Ant 3a NR Band n30 + Ant 3c 5 GHz WIFI | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.569             | 0.004             | 0.573             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.13 Combination 4: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.13.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a LTE Band 66 | Ant 3a 802.15.4 | 0.053 + 0.044 | 0.033 + 0.028 | 0.061        |
| Ant 3a LTE Band 30 | Ant 3a 802.15.4 | 0.064 + 0.044 | 0.040 + 0.028 | 0.068        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b LTE Band 66 | Ant 1b 5 GHz WIFI | 1.179 + 0.400 | 0.737 + 0.250 | 0.987        |
| Ant 1b NR Band n41 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |

### E.4.13.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             | Aggregate 1g Reported SAR |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|---------------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |                           |
|                                      |                                        | a                 | b                 | a+b               | D <sub>a-b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> | (W/kg)                    |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.061             | 0.987             | 1.048             | 18.89                         | 0.06                                   | 1.45                      |
| Ant 3a LTE Band 66 + Ant 3a 802.15.4 | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.061             | 0.995             | 1.056             | 18.89                         | 0.06                                   | 1.41                      |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.068             | 0.987             | 1.055             | 18.89                         | 0.06                                   | 1.30                      |
| Ant 3a LTE Band 30 + Ant 3a 802.15.4 | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.068             | 0.995             | 1.063             | 18.89                         | 0.06                                   | 1.40                      |

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## E.4.14 Combination 4: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.14.1 Right Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 802.15.4 | 0.914 + 0.400 | 0.571 + 0.250 | 0.821        |
| Ant 3a LTE Band 41 | Ant 3a 802.15.4 | 1.160 + 0.400 | 0.725 + 0.250 | 0.975        |

  

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.012 + 0.037 | 0.008 + 0.023 | 0.031        |
| Ant 1b NR Band n7 | Ant 1b 5 GHz WIFI | 0.025 + 0.037 | 0.016 + 0.023 | 0.039        |

### E.4.14.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                   | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|--------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                      |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                      |                                       | a                 | b                 |                   |                               |            |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.821             | 0.031             | 0.852             | 192.51                        | N/A        |
| Ant 3a NR Band n66 + Ant 3a 802.15.4 | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.821             | 0.039             | 0.860             | 192.51                        | N/A        |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.975             | 0.031             | 1.006             | 192.51                        | 0.01       |
| Ant 3a LTE Band 41 + Ant 3a 802.15.4 | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.975             | 0.039             | 1.014             | 192.51                        | 0.01       |

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## E.4.15 Combination 4: AC1 (Ant 3a + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.15.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3a NR Band n66 | Ant 3a 5 GHz WIFI | 0.014 + 0.021 | 0.009 + 0.013 | 0.022        |
| Ant 3a LTE Band 30 | Ant 3a 5 GHz WIFI | 0.006 + 0.021 | 0.004 + 0.013 | 0.017        |

  

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1750   | Ant 1a 2.4 GHz WIFI | 0.072 + 0.400 | 0.045 + 0.250 | 0.295        |
| Ant 1b NR Band n30 | Ant 1a 2.4 GHz WIFI | 0.062 + 0.400 | 0.039 + 0.250 | 0.289        |

### E.4.15.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.022             | 0.295             | 0.317             |
| Ant 3a NR Band n66 + Ant 3a 5 GHz WIFI | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.022             | 0.289             | 0.311             |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.017             | 0.295             | 0.312             |
| Ant 3a LTE Band 30 + Ant 3a 5 GHz WIFI | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.017             | 0.289             | 0.306             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.16 Combination 5: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.16.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n71 | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 3b LTE Band 48 | Ant 3a 2.4 GHz WIFI | 0.658 + 0.400 | 0.411 + 0.250 | 0.661        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n48 | Ant 1b 5 GHz WIFI | 0.857 + 0.370 | 0.536 + 0.231 | 0.767        |

### E.4.16.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.995             | 0.767             | 1.762             | 188.63                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.661             | 0.767             | 1.428             | 188.63                        | 0.01       |

|                            |                    |                                   |
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## E.4.17 Combination 5: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.17.1 Top Antenna Cluster Summation

| Antenna Cluster 1      |                   |               |               |              |
|------------------------|-------------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71     | Ant 3c 5 GHz WIFI | 0.965 + 0.400 | 0.603 + 0.250 | 0.853        |
| Ant 3b NR Band n77 DoD | Ant 3c 5 GHz WIFI | 1.193 + 0.400 | 0.746 + 0.250 | 0.996        |

  

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.036 + 0.000 | 0.023 + 0.000 | 0.023        |

### E.4.17.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                        | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio | Aggregate 1g Reported SAR |
|--------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|---------------------------|
|                                            |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |                           |
|                                            |                                          | a                 | b                 |                   |                               |            |                           |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.853             | 0.023             | 0.876             | 1                             | N/A        | N/A                       |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.023             | 1.019             | 1                             | 1.03       | 1.23                      |

|                            |                    |                                   |
|----------------------------|--------------------|-----------------------------------|
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## E.4.18 Combination 5: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.18.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 12 | Ant 3a 802.15.4 | 0.048 + 0.044 | 0.030 + 0.028 | 0.058        |
| Ant 3b LTE Band 48 | Ant 3a 802.15.4 | 0.002 + 0.044 | 0.001 + 0.028 | 0.029        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 0.585 + 0.400 | 0.366 + 0.250 | 0.616        |

### E.4.18.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                      |                                        | a                 | b                 | a+b               |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.058             | 0.616             | 0.674             |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.029             | 0.616             | 0.645             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.19 Combination 5: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.19.1 Right Antenna Cluster Summation

| Antenna Cluster 1      |                 |               |               |              |
|------------------------|-----------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n12     | Ant 3a 802.15.4 | 0.138 + 0.400 | 0.086 + 0.250 | 0.336        |
| Ant 3b NR Band n77 DoD | Ant 3a 802.15.4 | 0.069 + 0.400 | 0.043 + 0.250 | 0.293        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 1.190 + 0.037 | 0.744 + 0.023 | 0.767        |

### E.4.19.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.336             | 0.767             | 1.103             | 192.51                        | 0.01       |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.293             | 0.767             | 1.060             | 192.51                        | 0.01       |

|                            |                    |                                   |
|----------------------------|--------------------|-----------------------------------|
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## E.4.20 Combination 5: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.20.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71 | Ant 3a 5 GHz WIFI | 0.047 + 0.021 | 0.029 + 0.013 | 0.042        |
| Ant 3b NR Band n77 | Ant 3a 5 GHz WIFI | 0.023 + 0.021 | 0.014 + 0.013 | 0.027        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1a 2.4 GHz WIFI | 0.005 + 0.400 | 0.003 + 0.250 | 0.253        |

### E.4.20.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.042             | 0.253             | 0.295             |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.027             | 0.253             | 0.280             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.21 Combination 6: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.21.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n71 | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 3b LTE Band 48 | Ant 3a 2.4 GHz WIFI | 0.658 + 0.400 | 0.411 + 0.250 | 0.661        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.580 + 0.370 | 0.363 + 0.231 | 0.594        |
| Ant 2b NR Band n7  | Ant 1b 5 GHz WIFI | 0.871 + 0.370 | 0.544 + 0.231 | 0.775        |

### E.4.21.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.995             | 0.594             | 1.589             | 194.67                        | 0.01       |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.995             | 0.775             | 1.770             | 194.67                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.661             | 0.594             | 1.255             | 194.67                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.661             | 0.775             | 1.436             | 194.67                        | 0.01       |

|                            |                    |                                   |
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## E.4.22 Combination 6: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.22.1 Top Antenna Cluster Summation

| Antenna Cluster 1      |                   |               |               |              |
|------------------------|-------------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71     | Ant 3c 5 GHz WIFI | 0.965 + 0.400 | 0.603 + 0.250 | 0.853        |
| Ant 3b NR Band n77 DoD | Ant 3c 5 GHz WIFI | 1.193 + 0.400 | 0.746 + 0.250 | 0.996        |

  

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.022 + 0.000 | 0.014 + 0.000 | 0.014        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.023 + 0.000 | 0.014 + 0.000 | 0.014        |

### E.4.22.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                        | AC2                                     | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             | Aggregate 1g Reported SAR |
|--------------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|---------------------------|
|                                            |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |                           |
|                                            |                                         | a                 | b                 | a+b               | D <sub>a-b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> | (W/kg)                    |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.853             | 0.014             | 0.867             | 0                             | N/A                                    | N/A                       |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.853             | 0.014             | 0.867             | 0                             | N/A                                    | N/A                       |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.996             | 0.014             | 1.010             | 0                             | 0.00                                   | N/A                       |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.014             | 1.010             | 0                             | 0.00                                   | N/A                       |

|                            |                    |                                   |
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## E.4.23 Combination 6: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.23.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 12 | Ant 3a 802.15.4 | 0.048 + 0.044 | 0.030 + 0.028 | 0.058        |
| Ant 3b LTE Band 48 | Ant 3a 802.15.4 | 0.002 + 0.044 | 0.001 + 0.028 | 0.029        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b LTE Band 25 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 2b NR Band n41 | Ant 1b 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.23.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             | Aggregate 1g Reported SAR |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|---------------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |                           |
|                                      |                                        | a                 | b                 | a+b               | D <sub>a-b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> | (W/kg)                    |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.058             | 0.995             | 1.053             | 1.2                           | 0.90                                   | 1.34                      |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.058             | 0.996             | 1.054             | 1.2                           | 0.90                                   | 1.40                      |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.029             | 0.995             | 1.024             | 1.2                           | 0.86                                   | 1.31                      |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.029             | 0.996             | 1.025             | 1.2                           | 0.86                                   | 1.35                      |

|                            |                    |                                   |
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## E.4.24 Combination 6: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.24.1 Right Antenna Cluster Summation

| Antenna Cluster 1      |                 |               |               |              |
|------------------------|-----------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n12     | Ant 3a 802.15.4 | 0.138 + 0.400 | 0.086 + 0.250 | 0.336        |
| Ant 3b NR Band n77 DoD | Ant 3a 802.15.4 | 0.069 + 0.400 | 0.043 + 0.250 | 0.293        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.093 + 0.037 | 0.058 + 0.023 | 0.081        |
| Ant 2b LTE Band 30 | Ant 1b 5 GHz WIFI | 0.065 + 0.037 | 0.041 + 0.023 | 0.064        |

### E.4.24.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                          |                                        | a                 | b                 | a+b               |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.336             | 0.081             | 0.417             |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.336             | 0.064             | 0.400             |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.293             | 0.081             | 0.374             |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.293             | 0.064             | 0.357             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.25 Combination 6: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.25.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71 | Ant 3a 5 GHz WIFI | 0.047 + 0.021 | 0.029 + 0.013 | 0.042        |
| Ant 3b NR Band n77 | Ant 3a 5 GHz WIFI | 0.023 + 0.021 | 0.014 + 0.013 | 0.027        |

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.026 + 0.400 | 0.016 + 0.250 | 0.266        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.025 + 0.400 | 0.016 + 0.250 | 0.266        |

### E.4.25.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                     | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                         | a                 | b                 | a+b               |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.042             | 0.266             | 0.308             |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.042             | 0.266             | 0.308             |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.027             | 0.266             | 0.293             |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.027             | 0.266             | 0.293             |

Since the combination sum is less than the TER limit, no further evaluation is required.

|                            |                    |                                   |
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## E.4.26 Combination 7: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.26.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n71 | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 3b LTE Band 48 | Ant 3a 2.4 GHz WIFI | 0.658 + 0.400 | 0.411 + 0.250 | 0.661        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1b 5 GHz WIFI | 0.724 + 0.370 | 0.453 + 0.231 | 0.684        |

### E.4.26.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                        | a                 | b                 |                   |                               |            |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.995             | 0.684             | 1.679             | 223.03                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.661             | 0.684             | 1.345             | 223.03                        | 0.01       |

|                            |                    |                                   |
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## E.4.27 Combination 7: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.27.1 Top Antenna Cluster Summation

| Antenna Cluster 1      |                   |               |               |              |
|------------------------|-------------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71     | Ant 3c 5 GHz WIFI | 0.965 + 0.400 | 0.603 + 0.250 | 0.853        |
| Ant 3b NR Band n77 DoD | Ant 3c 5 GHz WIFI | 1.193 + 0.400 | 0.746 + 0.250 | 0.996        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.019 + 0.000 | 0.012 + 0.000 | 0.012        |

### E.4.27.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                        | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|--------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                            |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                            |                                          | a                 | b                 |                   |                               |            |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.853             | 0.012             | 0.865             | 46.89                         | N/A        |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.012             | 1.008             | 46.89                         | 0.02       |

|                            |                    |                                   |
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## E.4.28 Combination 7: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.28.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 12 | Ant 3a 802.15.4 | 0.048 + 0.044 | 0.030 + 0.028 | 0.058        |
| Ant 3b LTE Band 48 | Ant 3a 802.15.4 | 0.002 + 0.044 | 0.001 + 0.028 | 0.029        |

  

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.414 + 0.400 | 0.259 + 0.250 | 0.509        |

### E.4.28.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                      |                                        | a                 | b                 | a+b               |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.058             | 0.509             | 0.567             |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.029             | 0.509             | 0.538             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.29 Combination 7: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.29.1 Right Antenna Cluster Summation

| Antenna Cluster 1      |                 |               |               |              |
|------------------------|-----------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n12     | Ant 3a 802.15.4 | 0.138 + 0.400 | 0.086 + 0.250 | 0.336        |
| Ant 3b NR Band n77 DoD | Ant 3a 802.15.4 | 0.069 + 0.400 | 0.043 + 0.250 | 0.293        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.006 + 0.037 | 0.004 + 0.023 | 0.027        |

### E.4.29.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                          |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                          |                                        | a                 | b                 | a+b               |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.336             | 0.027             | 0.363             |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.293             | 0.027             | 0.320             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.1 Combination 7: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.1.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71 | Ant 3a 5 GHz WIFI | 0.047 + 0.021 | 0.029 + 0.013 | 0.042        |
| Ant 3b NR Band n77 | Ant 3a 5 GHz WIFI | 0.023 + 0.021 | 0.014 + 0.013 | 0.027        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1a 2.4 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.1.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                        |                                          | a                 | b                 |                   |                               |            |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.042             | 0.996             | 1.038             | 141.61                        | 0.01       |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.027             | 0.996             | 1.023             | 141.61                        | 0.01       |

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## E.4.2 Combination 8: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.2.1 Back Antenna Cluster Summation

| Antenna Cluster 1  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n71 | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 3b LTE Band 48 | Ant 3a 2.4 GHz WIFI | 0.658 + 0.400 | 0.411 + 0.250 | 0.661        |

  

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.807 + 0.370 | 0.504 + 0.231 | 0.735        |
| Ant 1b LTE Band 7 | Ant 1b 5 GHz WIFI | 1.173 + 0.370 | 0.733 + 0.231 | 0.964        |

### E.4.2.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                   | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|------------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                          |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                          |                                       | a                 | b                 |                   |                               |            |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.995             | 0.735             | 1.730             | 223.03                        | 0.01       |
| Ant 3b NR Band n71 + Ant 3a 2.4 GHz WIFI | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.995             | 0.964             | 1.959             | 223.03                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.661             | 0.735             | 1.396             | 223.03                        | 0.01       |
| Ant 3b LTE Band 48 + Ant 3a 2.4 GHz WIFI | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.661             | 0.964             | 1.625             | 223.03                        | 0.01       |

|                            |                    |                                   |
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## E.4.3 Combination 8: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.3.1 Top Antenna Cluster Summation

| Antenna Cluster 1      |                   |               |               |              |
|------------------------|-------------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71     | Ant 3c 5 GHz WIFI | 0.965 + 0.400 | 0.603 + 0.250 | 0.853        |
| Ant 3b NR Band n77 DoD | Ant 3c 5 GHz WIFI | 1.193 + 0.400 | 0.746 + 0.250 | 0.996        |

  

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b NR Band n25 | Ant 1a 2.4 GHz WIFI | 0.016 + 0.000 | 0.010 + 0.000 | 0.010        |
| Ant 1b LTE Band 30 | Ant 1a 2.4 GHz WIFI | 0.007 + 0.000 | 0.004 + 0.000 | 0.004        |

### E.4.3.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                        | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             | Aggregate 1g Reported SAR |
|--------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|---------------------------|
|                                            |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |                           |
|                                            |                                          | a                 | b                 | a+b               | D <sub>a-b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> | (W/kg)                    |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.853             | 0.010             | 0.863             | 46.89                         | N/A                                    | N/A                       |
| Ant 3b LTE Band 71 + Ant 3c 5 GHz WIFI     | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.853             | 0.004             | 0.857             | 46.89                         | N/A                                    | N/A                       |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.010             | 1.006             | 46.89                         | 0.02                                   | N/A                       |
| Ant 3b NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.004             | 1.000             | 46.89                         | N/A                                    | N/A                       |

|                            |                    |                                   |
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## E.4.4 Combination 8: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.4.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1  |                 |               |               |              |
|--------------------|-----------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 12 | Ant 3a 802.15.4 | 0.048 + 0.044 | 0.030 + 0.028 | 0.058        |
| Ant 3b LTE Band 48 | Ant 3a 802.15.4 | 0.002 + 0.044 | 0.001 + 0.028 | 0.029        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b LTE Band 66 | Ant 1b 5 GHz WIFI | 1.179 + 0.400 | 0.737 + 0.250 | 0.987        |
| Ant 1b NR Band n41 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |

### E.4.4.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                  | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             | Aggregate 1g Reported SAR |
|--------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|---------------------------|
|                                      |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |                           |
|                                      |                                        | a                 | b                 | a+b               | D <sub>a-b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a-b</sub> | (W/kg)                    |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.058             | 0.987             | 1.045             | 2.6                           | 0.41                                   | 1.16                      |
| Ant 3b LTE Band 12 + Ant 3a 802.15.4 | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.058             | 0.995             | 1.053             | 2.6                           | 0.42                                   | 1.44                      |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.029             | 0.987             | 1.016             | 2.6                           | 0.39                                   | 1.13                      |
| Ant 3b LTE Band 48 + Ant 3a 802.15.4 | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.029             | 0.995             | 1.024             | 2.6                           | 0.40                                   | 1.40                      |

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## E.4.5 Combination 8: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.5.1 Right Antenna Cluster Summation

| Antenna Cluster 1      |                 |               |               |              |
|------------------------|-----------------|---------------|---------------|--------------|
| Ant "a"                | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b NR Band n12     | Ant 3a 802.15.4 | 0.138 + 0.400 | 0.086 + 0.250 | 0.336        |
| Ant 3b NR Band n77 DoD | Ant 3a 802.15.4 | 0.069 + 0.400 | 0.043 + 0.250 | 0.293        |

  

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.012 + 0.037 | 0.008 + 0.023 | 0.031        |
| Ant 1b NR Band n7 | Ant 1b 5 GHz WIFI | 0.025 + 0.037 | 0.016 + 0.023 | 0.039        |

### E.4.5.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                      | AC2                                   | Standalone Values |                   | Standalone ER Sum |
|------------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|
|                                          |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                          |                                       | a                 | b                 | a+b               |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.336             | 0.031             | 0.367             |
| Ant 3b NR Band n12 + Ant 3a 802.15.4     | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.336             | 0.039             | 0.375             |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.293             | 0.031             | 0.324             |
| Ant 3b NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.293             | 0.039             | 0.332             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.6 Combination 8: AC1 (Ant 3b + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.6.1 Left Antenna Cluster Summation

| Antenna Cluster 1  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 3b LTE Band 71 | Ant 3a 5 GHz WIFI | 0.047 + 0.021 | 0.029 + 0.013 | 0.042        |
| Ant 3b NR Band n77 | Ant 3a 5 GHz WIFI | 0.023 + 0.021 | 0.014 + 0.013 | 0.027        |

  

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1750   | Ant 1a 2.4 GHz WIFI | 0.072 + 0.400 | 0.045 + 0.250 | 0.295        |
| Ant 1b NR Band n30 | Ant 1a 2.4 GHz WIFI | 0.062 + 0.400 | 0.039 + 0.250 | 0.289        |

### E.4.6.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                    | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                        |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                        |                                          | a                 | b                 | a+b               |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.042             | 0.295             | 0.337             |
| Ant 3b LTE Band 71 + Ant 3a 5 GHz WIFI | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.042             | 0.289             | 0.331             |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.027             | 0.295             | 0.322             |
| Ant 3b NR Band n77 + Ant 3a 5 GHz WIFI | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.027             | 0.289             | 0.316             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.7 Combination 9: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.7.1 Back Antenna Cluster Summation

| Antenna Cluster 1     |                     |               |               |              |
|-----------------------|---------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 LTE Band 5      | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 UMTS 1750       | Ant 3a 2.4 GHz WIFI | 0.652 + 0.400 | 0.408 + 0.250 | 0.658        |
| Ant 4 LTE Band 7      | Ant 3a 2.4 GHz WIFI | 1.102 + 0.400 | 0.689 + 0.250 | 0.939        |
| Ant 4 NR Band n77 DoD | Ant 3a 2.4 GHz WIFI | 1.174 + 0.400 | 0.734 + 0.250 | 0.984        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n48 | Ant 1b 5 GHz WIFI | 0.857 + 0.370 | 0.536 + 0.231 | 0.767        |

### E.4.7.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                         | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|---------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                             |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                             |                                        | a                 | b                 |                   |                               |            |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.995             | 0.767             | 1.762             | 188.63                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.658             | 0.767             | 1.425             | 188.63                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.939             | 0.767             | 1.706             | 188.63                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 2a NR Band n48 + Ant 1b 5 GHz WIFI | 0.984             | 0.767             | 1.751             | 188.63                        | 0.01       |

|                            |                    |                                   |
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## E.4.8 Combination 9: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.8.1 Top Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3c 5 GHz WIFI | 1.106 + 0.400 | 0.691 + 0.250 | 0.941        |
| Ant 4 LTE Band 66     | Ant 3c 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 NR Band n41     | Ant 3c 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |
| Ant 4 NR Band n77 DoD | Ant 3c 5 GHz WIFI | 0.766 + 0.400 | 0.479 + 0.250 | 0.729        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.036 + 0.000 | 0.023 + 0.000 | 0.023        |

### E.4.8.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                          | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.941             | 0.023             | 0.964             | 0                             | N/A        |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.995             | 0.023             | 1.018             | 0                             | 0.00       |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.023             | 1.019             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.729             | 0.023             | 0.752             | 0                             | N/A        |

|                            |                    |                                   |
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## E.4.9 Combination 9: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.9.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1     |                 |               |               |              |
|-----------------------|-----------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 802.15.4 | 0.149 + 0.044 | 0.093 + 0.028 | 0.121        |
| Ant 4 UMTS 1750       | Ant 3a 802.15.4 | 0.000 + 0.044 | 0.000 + 0.028 | 0.028        |
| Ant 4 NR Band n30     | Ant 3a 802.15.4 | 0.047 + 0.044 | 0.029 + 0.028 | 0.057        |
| Ant 4 NR Band n77 DoD | Ant 3a 802.15.4 | 0.032 + 0.044 | 0.020 + 0.028 | 0.048        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 0.585 + 0.400 | 0.366 + 0.250 | 0.616        |

### E.4.9.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                     | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|-----------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                         |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                         |                                        | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.121             | 0.616             | 0.737             |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.028             | 0.616             | 0.644             |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.057             | 0.616             | 0.673             |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.048             | 0.616             | 0.664             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.10 Combination 9: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.10.1 Right Antenna Cluster Summation

| Antenna Cluster 1 |                          |               |               |              |
|-------------------|--------------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"                  | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12 | Ant 3a 2.4 GHz Bluetooth | 0.127 + 1.102 | 0.079 + 0.689 | 0.768        |
| Ant 4 NR Band n66 | Ant 3a 2.4 GHz Bluetooth | 0.010 + 1.102 | 0.006 + 0.689 | 0.695        |
| Ant 4 LTE Band 7  | Ant 3a 2.4 GHz Bluetooth | 0.033 + 1.102 | 0.021 + 0.689 | 0.710        |
| Ant 4 LTE Band 48 | Ant 3a 2.4 GHz Bluetooth | 0.000 + 1.102 | 0.000 + 0.689 | 0.689        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1b 5 GHz WIFI | 1.190 + 0.037 | 0.744 + 0.023 | 0.767        |

### E.4.10.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                          | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|----------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                              |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                              |                                        | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.768             | 0.767             | 1.535             | 87.51                         | 0.02       |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.695             | 0.767             | 1.462             | 87.51                         | 0.02       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.710             | 0.767             | 1.477             | 87.51                         | 0.02       |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 2a NR Band n77 + Ant 1b 5 GHz WIFI | 0.689             | 0.767             | 1.456             | 87.51                         | 0.02       |

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## E.4.11 Combination 9: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2a + Ant 1a,1b)

### E.4.11.1 Left Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 5 GHz WIFI | 0.666 + 0.021 | 0.416 + 0.013 | 0.429        |
| Ant 4 NR Band n70     | Ant 3a 5 GHz WIFI | 0.043 + 0.021 | 0.027 + 0.013 | 0.040        |
| Ant 4 NR Band n30     | Ant 3a 5 GHz WIFI | 0.977 + 0.021 | 0.611 + 0.013 | 0.624        |
| Ant 4 NR Band n77 DoD | Ant 3a 5 GHz WIFI | 1.162 + 0.021 | 0.726 + 0.013 | 0.739        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2a NR Band n77 | Ant 1a 2.4 GHz WIFI | 0.005 + 0.400 | 0.003 + 0.250 | 0.253        |

### E.4.11.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                           |                                          | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.429             | 0.253             | 0.682             |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.040             | 0.253             | 0.293             |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.624             | 0.253             | 0.877             |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 2a NR Band n77 + Ant 1a 2.4 GHz WIFI | 0.739             | 0.253             | 0.992             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.12 Combination 10: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.12.1 Back Antenna Cluster Summation

| Antenna Cluster 1     |                     |               |               |              |
|-----------------------|---------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 LTE Band 5      | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 UMTS 1750       | Ant 3a 2.4 GHz WIFI | 0.652 + 0.400 | 0.408 + 0.250 | 0.658        |
| Ant 4 LTE Band 7      | Ant 3a 2.4 GHz WIFI | 1.102 + 0.400 | 0.689 + 0.250 | 0.939        |
| Ant 4 NR Band n77 DoD | Ant 3a 2.4 GHz WIFI | 1.174 + 0.400 | 0.734 + 0.250 | 0.984        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.580 + 0.370 | 0.363 + 0.231 | 0.594        |
| Ant 2b NR Band n7  | Ant 1b 5 GHz WIFI | 0.871 + 0.370 | 0.544 + 0.231 | 0.775        |

### E.4.12.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                         | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|---------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                             |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                             |                                        | a                 | b                 |                   |                               |            |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.995             | 0.594             | 1.589             | 194.67                        | 0.01       |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.995             | 0.775             | 1.770             | 194.67                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.658             | 0.594             | 1.252             | 194.67                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.658             | 0.775             | 1.433             | 194.67                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.939             | 0.594             | 1.533             | 194.67                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.939             | 0.775             | 1.714             | 194.67                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.984             | 0.594             | 1.578             | 194.67                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 2b NR Band n7 + Ant 1b 5 GHz WIFI  | 0.984             | 0.775             | 1.759             | 194.67                        | 0.01       |

|                            |                    |                                   |
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## E.4.13 Combination 10: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.13.1 Top Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3c 5 GHz WIFI | 1.106 + 0.400 | 0.691 + 0.250 | 0.941        |
| Ant 4 LTE Band 66     | Ant 3c 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 NR Band n41     | Ant 3c 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |
| Ant 4 NR Band n77 DoD | Ant 3c 5 GHz WIFI | 0.766 + 0.400 | 0.479 + 0.250 | 0.729        |

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.022 + 0.000 | 0.014 + 0.000 | 0.014        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.023 + 0.000 | 0.014 + 0.000 | 0.014        |

### E.4.13.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                     | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                         | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.941             | 0.014             | 0.955             | 0                             | N/A        |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.941             | 0.014             | 0.955             | 0                             | N/A        |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.995             | 0.014             | 1.009             | 0                             | 0.00       |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.995             | 0.014             | 1.009             | 0                             | 0.00       |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.996             | 0.014             | 1.010             | 0                             | 0.00       |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.014             | 1.010             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.729             | 0.014             | 0.743             | 0                             | N/A        |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.729             | 0.014             | 0.743             | 0                             | N/A        |

|                            |                    |                                   |
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## E.4.14 Combination 10: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.14.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1     |                 |               |               |              |
|-----------------------|-----------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 802.15.4 | 0.149 + 0.044 | 0.093 + 0.028 | 0.121        |
| Ant 4 UMTS 1750       | Ant 3a 802.15.4 | 0.000 + 0.044 | 0.000 + 0.028 | 0.028        |
| Ant 4 NR Band n30     | Ant 3a 802.15.4 | 0.047 + 0.044 | 0.029 + 0.028 | 0.057        |
| Ant 4 NR Band n77 DoD | Ant 3a 802.15.4 | 0.032 + 0.044 | 0.020 + 0.028 | 0.048        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b LTE Band 25 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 2b NR Band n41 | Ant 1b 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.14.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                     | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-----------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                         |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                         |                                        | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.121             | 0.995             | 1.116             | 0                             | 0.00       |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.121             | 0.996             | 1.117             | 0                             | 0.00       |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.028             | 0.995             | 1.023             | 0                             | 0.00       |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.028             | 0.996             | 1.024             | 0                             | 0.00       |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.057             | 0.995             | 1.052             | 0                             | 0.00       |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.057             | 0.996             | 1.053             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2b LTE Band 25 + Ant 1b 5 GHz WIFI | 0.048             | 0.995             | 1.043             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 2b NR Band n41 + Ant 1b 5 GHz WIFI | 0.048             | 0.996             | 1.044             | 0                             | 0.00       |

|                            |                    |                                   |
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## E.4.15 Combination 10: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.15.1 Right Antenna Cluster Summation

| Antenna Cluster 1 |                          |               |               |              |
|-------------------|--------------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"                  | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12 | Ant 3a 2.4 GHz Bluetooth | 0.127 + 1.102 | 0.079 + 0.689 | 0.768        |
| Ant 4 NR Band n66 | Ant 3a 2.4 GHz Bluetooth | 0.010 + 1.102 | 0.006 + 0.689 | 0.695        |
| Ant 4 LTE Band 7  | Ant 3a 2.4 GHz Bluetooth | 0.033 + 1.102 | 0.021 + 0.689 | 0.710        |
| Ant 4 LTE Band 48 | Ant 3a 2.4 GHz Bluetooth | 0.000 + 1.102 | 0.000 + 0.689 | 0.689        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b NR Band n70 | Ant 1b 5 GHz WIFI | 0.093 + 0.037 | 0.058 + 0.023 | 0.081        |
| Ant 2b LTE Band 30 | Ant 1b 5 GHz WIFI | 0.065 + 0.037 | 0.041 + 0.023 | 0.064        |

### E.4.15.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                          | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                              |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                              |                                        | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.768             | 0.081             | 0.849             |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.768             | 0.064             | 0.832             |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.695             | 0.081             | 0.776             |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.695             | 0.064             | 0.759             |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.710             | 0.081             | 0.791             |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.710             | 0.064             | 0.774             |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 2b NR Band n70 + Ant 1b 5 GHz WIFI | 0.689             | 0.081             | 0.770             |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 2b LTE Band 30 + Ant 1b 5 GHz WIFI | 0.689             | 0.064             | 0.753             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.16 Combination 10: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 2b + Ant 1a,1b)

### E.4.16.1 Left Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 5 GHz WIFI | 0.666 + 0.021 | 0.416 + 0.013 | 0.429        |
| Ant 4 NR Band n70     | Ant 3a 5 GHz WIFI | 0.043 + 0.021 | 0.027 + 0.013 | 0.040        |
| Ant 4 NR Band n30     | Ant 3a 5 GHz WIFI | 0.977 + 0.021 | 0.611 + 0.013 | 0.624        |
| Ant 4 NR Band n77 DoD | Ant 3a 5 GHz WIFI | 1.162 + 0.021 | 0.726 + 0.013 | 0.739        |

| Antenna Cluster 2 |                     |               |               |              |
|-------------------|---------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 2b UMTS 1750  | Ant 1a 2.4 GHz WIFI | 0.026 + 0.400 | 0.016 + 0.250 | 0.266        |
| Ant 2b NR Band n7 | Ant 1a 2.4 GHz WIFI | 0.025 + 0.400 | 0.016 + 0.250 | 0.266        |

### E.4.16.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                     | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|-----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                         | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                         | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.429             | 0.266             | 0.695             | 82.22                         | N/A        |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.429             | 0.266             | 0.695             | 82.22                         | N/A        |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.040             | 0.266             | 0.306             | 82.22                         | N/A        |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.040             | 0.266             | 0.306             | 82.22                         | N/A        |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.624             | 0.266             | 0.890             | 82.22                         | N/A        |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.624             | 0.266             | 0.890             | 82.22                         | N/A        |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 2b UMTS 1750 + Ant 1a 2.4 GHz WIFI  | 0.739             | 0.266             | 1.005             | 82.22                         | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 2b NR Band n7 + Ant 1a 2.4 GHz WIFI | 0.739             | 0.266             | 1.005             | 82.22                         | 0.01       |

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## E.4.17 Combination 11: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.17.1 Back Antenna Cluster Summation

| Antenna Cluster 1     |                     |               |               |              |
|-----------------------|---------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 LTE Band 5      | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 UMTS 1750       | Ant 3a 2.4 GHz WIFI | 0.652 + 0.400 | 0.408 + 0.250 | 0.658        |
| Ant 4 LTE Band 7      | Ant 3a 2.4 GHz WIFI | 1.102 + 0.400 | 0.689 + 0.250 | 0.939        |
| Ant 4 NR Band n77 DoD | Ant 3a 2.4 GHz WIFI | 1.174 + 0.400 | 0.734 + 0.250 | 0.984        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1b 5 GHz WIFI | 0.724 + 0.370 | 0.453 + 0.231 | 0.684        |

### E.4.17.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                         | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|---------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                             |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                             |                                        | a                 | b                 |                   |                               |            |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.995             | 0.684             | 1.679             | 211.34                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.658             | 0.684             | 1.342             | 211.34                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.939             | 0.684             | 1.623             | 211.34                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI | 0.984             | 0.684             | 1.668             | 211.34                        | 0.01       |

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## E.4.18 Combination 11: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.18.1 Top Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3c 5 GHz WIFI | 1.106 + 0.400 | 0.691 + 0.250 | 0.941        |
| Ant 4 LTE Band 66     | Ant 3c 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 NR Band n41     | Ant 3c 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |
| Ant 4 NR Band n77 DoD | Ant 3c 5 GHz WIFI | 0.766 + 0.400 | 0.479 + 0.250 | 0.729        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1a 2.4 GHz WIFI | 0.019 + 0.000 | 0.012 + 0.000 | 0.012        |

### E.4.18.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                          | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.941             | 0.012             | 0.953             | 0                             | N/A        |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.995             | 0.012             | 1.007             | 0                             | 0.00       |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.012             | 1.008             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1a LTE Band 48 + Ant 1a 2.4 GHz WIFI | 0.729             | 0.012             | 0.741             | 0                             | N/A        |

|                            |                    |                                   |
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## E.4.19 Combination 11: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.19.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1     |                 |               |               |              |
|-----------------------|-----------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 802.15.4 | 0.149 + 0.044 | 0.093 + 0.028 | 0.121        |
| Ant 4 UMTS 1750       | Ant 3a 802.15.4 | 0.000 + 0.044 | 0.000 + 0.028 | 0.028        |
| Ant 4 NR Band n30     | Ant 3a 802.15.4 | 0.047 + 0.044 | 0.029 + 0.028 | 0.057        |
| Ant 4 NR Band n77 DoD | Ant 3a 802.15.4 | 0.032 + 0.044 | 0.020 + 0.028 | 0.048        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.414 + 0.400 | 0.259 + 0.250 | 0.509        |

### E.4.19.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                     | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|-----------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                         |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                         |                                        | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.121             | 0.509             | 0.630             |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.028             | 0.509             | 0.537             |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.057             | 0.509             | 0.566             |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.048             | 0.509             | 0.557             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.20 Combination 11: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.20.1 Right Antenna Cluster Summation

| Antenna Cluster 1 |                          |               |               |              |
|-------------------|--------------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"                  | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12 | Ant 3a 2.4 GHz Bluetooth | 0.127 + 1.102 | 0.079 + 0.689 | 0.768        |
| Ant 4 NR Band n66 | Ant 3a 2.4 GHz Bluetooth | 0.010 + 1.102 | 0.006 + 0.689 | 0.695        |
| Ant 4 LTE Band 7  | Ant 3a 2.4 GHz Bluetooth | 0.033 + 1.102 | 0.021 + 0.689 | 0.710        |
| Ant 4 LTE Band 48 | Ant 3a 2.4 GHz Bluetooth | 0.000 + 1.102 | 0.000 + 0.689 | 0.689        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a LTE Band 48 | Ant 1b 5 GHz WIFI | 0.006 + 0.037 | 0.004 + 0.023 | 0.027        |

### E.4.20.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                          | AC2                                    | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|
|                                              |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                              |                                        | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.768             | 0.027             | 0.795             |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.695             | 0.027             | 0.722             |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.710             | 0.027             | 0.737             |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 1a LTE Band 48 + Ant 1b 5 GHz WIFI | 0.689             | 0.027             | 0.716             |

Since the combination sum is less than the TER limit, no further evaluation is required.

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## E.4.21 Combination 11: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1a + Ant 1a,1b)

### E.4.21.1 Left Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 5 GHz WIFI | 0.666 + 0.021 | 0.416 + 0.013 | 0.429        |
| Ant 4 NR Band n70     | Ant 3a 5 GHz WIFI | 0.043 + 0.021 | 0.027 + 0.013 | 0.040        |
| Ant 4 NR Band n30     | Ant 3a 5 GHz WIFI | 0.977 + 0.021 | 0.611 + 0.013 | 0.624        |
| Ant 4 NR Band n77 DoD | Ant 3a 5 GHz WIFI | 1.162 + 0.021 | 0.726 + 0.013 | 0.739        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1a NR Band n48 | Ant 1a 2.4 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |

### E.4.21.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                          | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.429             | 0.996             | 1.425             | 199.3                         | 0.01       |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.040             | 0.996             | 1.036             | 199.3                         | 0.01       |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.624             | 0.996             | 1.620             | 199.3                         | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI | 0.739             | 0.996             | 1.735             | 199.3                         | 0.01       |

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## E.4.22 Combination 12: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.22.1 Back Antenna Cluster Summation

| Antenna Cluster 1     |                     |               |               |              |
|-----------------------|---------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 LTE Band 5      | Ant 3a 2.4 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 UMTS 1750       | Ant 3a 2.4 GHz WIFI | 0.652 + 0.400 | 0.408 + 0.250 | 0.658        |
| Ant 4 LTE Band 7      | Ant 3a 2.4 GHz WIFI | 1.102 + 0.400 | 0.689 + 0.250 | 0.939        |
| Ant 4 NR Band n77 DoD | Ant 3a 2.4 GHz WIFI | 1.174 + 0.400 | 0.734 + 0.250 | 0.984        |

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.807 + 0.370 | 0.504 + 0.231 | 0.735        |
| Ant 1b LTE Band 7 | Ant 1b 5 GHz WIFI | 1.173 + 0.370 | 0.733 + 0.231 | 0.964        |

### E.4.22.2 Back Antenna Cluster 1 + 2 SPLSR

| AC1                                         | AC2                                   | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|---------------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                             |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                             |                                       | a                 | b                 |                   |                               |            |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.995             | 0.735             | 1.730             | 211.34                        | 0.01       |
| Ant 4 LTE Band 5 + Ant 3a 2.4 GHz WIFI      | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.995             | 0.964             | 1.959             | 211.34                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.658             | 0.735             | 1.393             | 211.34                        | 0.01       |
| Ant 4 UMTS 1750 + Ant 3a 2.4 GHz WIFI       | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.658             | 0.964             | 1.622             | 211.34                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.939             | 0.735             | 1.674             | 211.34                        | 0.01       |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz WIFI      | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.939             | 0.964             | 1.903             | 211.34                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.984             | 0.735             | 1.719             | 211.34                        | 0.01       |
| Ant 4 NR Band n77 DoD + Ant 3a 2.4 GHz WIFI | Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI | 0.984             | 0.964             | 1.948             | 211.34                        | 0.01       |

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## E.4.23 Combination 12: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.23.1 Top Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3c 5 GHz WIFI | 1.106 + 0.400 | 0.691 + 0.250 | 0.941        |
| Ant 4 LTE Band 66     | Ant 3c 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |
| Ant 4 NR Band n41     | Ant 3c 5 GHz WIFI | 1.194 + 0.400 | 0.746 + 0.250 | 0.996        |
| Ant 4 NR Band n77 DoD | Ant 3c 5 GHz WIFI | 0.766 + 0.400 | 0.479 + 0.250 | 0.729        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b NR Band n25 | Ant 1a 2.4 GHz WIFI | 0.016 + 0.000 | 0.010 + 0.000 | 0.010        |
| Ant 1b LTE Band 30 | Ant 1a 2.4 GHz WIFI | 0.007 + 0.000 | 0.004 + 0.000 | 0.004        |

### E.4.23.2 Top Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                           |                                          | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.941             | 0.010             | 0.951             | 0                             | N/A        |
| Ant 4 NR Band n12 + Ant 3c 5 GHz WIFI     | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.941             | 0.004             | 0.945             | 0                             | N/A        |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.995             | 0.010             | 1.005             | 0                             | 0.00       |
| Ant 4 LTE Band 66 + Ant 3c 5 GHz WIFI     | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.995             | 0.004             | 0.999             | 0                             | N/A        |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.010             | 1.006             | 0                             | 0.00       |
| Ant 4 NR Band n41 + Ant 3c 5 GHz WIFI     | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.996             | 0.004             | 1.000             | 0                             | N/A        |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1b NR Band n25 + Ant 1a 2.4 GHz WIFI | 0.729             | 0.010             | 0.739             | 0                             | N/A        |
| Ant 4 NR Band n77 DoD + Ant 3c 5 GHz WIFI | Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI | 0.729             | 0.004             | 0.733             | 0                             | N/A        |

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## E.4.24 Combination 12: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.24.1 Bottom Antenna Cluster Summation

| Antenna Cluster 1     |                 |               |               |              |
|-----------------------|-----------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"         | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 802.15.4 | 0.149 + 0.044 | 0.093 + 0.028 | 0.121        |
| Ant 4 UMTS 1750       | Ant 3a 802.15.4 | 0.000 + 0.044 | 0.000 + 0.028 | 0.028        |
| Ant 4 NR Band n30     | Ant 3a 802.15.4 | 0.047 + 0.044 | 0.029 + 0.028 | 0.057        |
| Ant 4 NR Band n77 DoD | Ant 3a 802.15.4 | 0.032 + 0.044 | 0.020 + 0.028 | 0.048        |

| Antenna Cluster 2  |                   |               |               |              |
|--------------------|-------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b LTE Band 66 | Ant 1b 5 GHz WIFI | 1.179 + 0.400 | 0.737 + 0.250 | 0.987        |
| Ant 1b NR Band n41 | Ant 1b 5 GHz WIFI | 1.192 + 0.400 | 0.745 + 0.250 | 0.995        |

### E.4.24.2 Bottom Antenna Cluster 1 + 2 SPLSR

| AC1                                     | AC2                                    | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio |
|-----------------------------------------|----------------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------|
|                                         |                                        | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |            |
|                                         |                                        | a                 | b                 |                   |                               |            |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.121             | 0.987             | 1.108             | 0                             | 0.00       |
| Ant 4 NR Band n12 + Ant 3a 802.15.4     | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.121             | 0.995             | 1.116             | 0                             | 0.00       |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.028             | 0.987             | 1.015             | 0                             | 0.00       |
| Ant 4 UMTS 1750 + Ant 3a 802.15.4       | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.028             | 0.995             | 1.023             | 0                             | 0.00       |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.057             | 0.987             | 1.044             | 0                             | 0.00       |
| Ant 4 NR Band n30 + Ant 3a 802.15.4     | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.057             | 0.995             | 1.052             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1b LTE Band 66 + Ant 1b 5 GHz WIFI | 0.048             | 0.987             | 1.035             | 0                             | 0.00       |
| Ant 4 NR Band n77 DoD + Ant 3a 802.15.4 | Ant 1b NR Band n41 + Ant 1b 5 GHz WIFI | 0.048             | 0.995             | 1.043             | 0                             | 0.00       |

|                            |                    |                                   |
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## E.4.25 Combination 12: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.25.1 Right Antenna Cluster Summation

| Antenna Cluster 1 |                          |               |               |              |
|-------------------|--------------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"                  | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12 | Ant 3a 2.4 GHz Bluetooth | 0.127 + 1.102 | 0.079 + 0.689 | 0.768        |
| Ant 4 NR Band n66 | Ant 3a 2.4 GHz Bluetooth | 0.010 + 1.102 | 0.006 + 0.689 | 0.695        |
| Ant 4 LTE Band 7  | Ant 3a 2.4 GHz Bluetooth | 0.033 + 1.102 | 0.021 + 0.689 | 0.710        |
| Ant 4 LTE Band 48 | Ant 3a 2.4 GHz Bluetooth | 0.000 + 1.102 | 0.000 + 0.689 | 0.689        |

| Antenna Cluster 2 |                   |               |               |              |
|-------------------|-------------------|---------------|---------------|--------------|
| Ant "a"           | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1900  | Ant 1b 5 GHz WIFI | 0.012 + 0.037 | 0.008 + 0.023 | 0.031        |
| Ant 1b NR Band n7 | Ant 1b 5 GHz WIFI | 0.025 + 0.037 | 0.016 + 0.023 | 0.039        |

### E.4.25.2 Right Antenna Cluster 1 + 2 SPLSR

| AC1                                          | AC2                                   | Standalone Values |                   | Standalone ER Sum |
|----------------------------------------------|---------------------------------------|-------------------|-------------------|-------------------|
|                                              |                                       | Exposure Ratio 1: | Exposure Ratio 2: |                   |
|                                              |                                       | a                 | b                 | a+b               |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.768             | 0.031             | 0.799             |
| Ant 4 NR Band n12 + Ant 3a 2.4 GHz Bluetooth | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.768             | 0.039             | 0.807             |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.695             | 0.031             | 0.726             |
| Ant 4 NR Band n66 + Ant 3a 2.4 GHz Bluetooth | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.695             | 0.039             | 0.734             |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.710             | 0.031             | 0.741             |
| Ant 4 LTE Band 7 + Ant 3a 2.4 GHz Bluetooth  | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.710             | 0.039             | 0.749             |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI  | 0.689             | 0.031             | 0.720             |
| Ant 4 LTE Band 48 + Ant 3a 2.4 GHz Bluetooth | Ant 1b NR Band n7 + Ant 1b 5 GHz WIFI | 0.689             | 0.039             | 0.728             |

Since the combination sum is less than the TER limit, no further evaluation is required.

|                            |                    |                                   |
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## E.4.26 Combination 12: AC1 (Ant 4 + Ant 3a,3c) and AC2 (Ant 1b + Ant 1a,1b)

### E.4.26.1 Left Antenna Cluster Summation

| Antenna Cluster 1     |                   |               |               |              |
|-----------------------|-------------------|---------------|---------------|--------------|
| Ant "a"               | Ant "b"           | a + b (W/kg)  | a + b (ER)    | AC1 Sum (ER) |
| Ant 4 NR Band n12     | Ant 3a 5 GHz WIFI | 0.666 + 0.021 | 0.416 + 0.013 | 0.429        |
| Ant 4 NR Band n70     | Ant 3a 5 GHz WIFI | 0.043 + 0.021 | 0.027 + 0.013 | 0.040        |
| Ant 4 NR Band n30     | Ant 3a 5 GHz WIFI | 0.977 + 0.021 | 0.611 + 0.013 | 0.624        |
| Ant 4 NR Band n77 DoD | Ant 3a 5 GHz WIFI | 1.162 + 0.021 | 0.726 + 0.013 | 0.739        |

| Antenna Cluster 2  |                     |               |               |              |
|--------------------|---------------------|---------------|---------------|--------------|
| Ant "a"            | Ant "b"             | a + b (W/kg)  | a + b (ER)    | AC2 Sum (ER) |
| Ant 1b UMTS 1750   | Ant 1a 2.4 GHz WIFI | 0.072 + 0.400 | 0.045 + 0.250 | 0.295        |
| Ant 1b NR Band n30 | Ant 1a 2.4 GHz WIFI | 0.062 + 0.400 | 0.039 + 0.250 | 0.289        |

### E.4.26.2 Left Antenna Cluster 1 + 2 SPLSR

| AC1                                       | AC2                                      | Standalone Values |                   | Standalone ER Sum | Peak Separation Distance (mm) | SPLS Ratio                             |
|-------------------------------------------|------------------------------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------------------|
|                                           |                                          | Exposure Ratio 1: | Exposure Ratio 2: |                   |                               |                                        |
|                                           |                                          | a                 | b                 | a+b               | D <sub>a,b</sub>              | (a+b) <sup>1.5</sup> /D <sub>a,b</sub> |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.429             | 0.295             | 0.724             | 199.3                         | N/A                                    |
| Ant 4 NR Band n12 + Ant 3a 5 GHz WIFI     | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.429             | 0.289             | 0.718             | 199.3                         | N/A                                    |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.040             | 0.295             | 0.335             | 199.3                         | N/A                                    |
| Ant 4 NR Band n70 + Ant 3a 5 GHz WIFI     | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.040             | 0.289             | 0.329             | 199.3                         | N/A                                    |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.624             | 0.295             | 0.919             | 199.3                         | N/A                                    |
| Ant 4 NR Band n30 + Ant 3a 5 GHz WIFI     | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.624             | 0.289             | 0.913             | 199.3                         | N/A                                    |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI   | 0.739             | 0.295             | 1.034             | 199.3                         | 0.01                                   |
| Ant 4 NR Band n77 DoD + Ant 3a 5 GHz WIFI | Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI | 0.739             | 0.289             | 1.028             | 199.3                         | 0.01                                   |

Any combination where the sum is less than or equal to the applicable Exposure Ratio limit is considered validated and can be excluded from further evaluation.

|                            |                    |                                   |
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