

APPENDIX E: CELLULAR ANTENNA CLUSTERING VALIDATION

FCC ID: BCGA3596	RF EXPOSURE REPORT		Approved by: Technical Manager
DUT Type: Tablet Device		This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	APPENDIX E: Page 1 of 366

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 WF5T
AC 2	Ant 1a	Ant 1b	Ant 2	Ant 1a/Ant 1b	Ant WF5B

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 1a + Ant 1a/Ant 1b
Ant 3a + Ant WF5T	Ant 1a + Ant WF5B
Ant 3b + Ant 3a	Ant 1b + Ant 1a/Ant 1b
Ant 3b + Ant WF5T	Ant 1b + Ant WF5B
Ant 4 + Ant 3a	Ant 2 + Ant 1a/Ant 1b
Ant 4 + Ant WF5T	Ant 2 + Ant WF5B

Antenna Combination	AC 1	AC 2
1	Ant 3a + Ant 3a	Ant 1a + Ant 1a/Ant 1b
2	Ant 3a + Ant 3a	Ant 1a + Ant WF5B
3	Ant 3a + Ant WF5T	Ant 1a + Ant 1a/Ant 1b
4	Ant 3a + Ant WF5T	Ant 1a + Ant WF5B
5	Ant 3a + Ant 3a	Ant 1b + Ant 1a/Ant 1b
6	Ant 3a + Ant 3a	Ant 1b + Ant WF5B
7	Ant 3a + Ant WF5T	Ant 1b + Ant 1a/Ant 1b
8	Ant 3a + Ant WF5T	Ant 1b + Ant WF5B
9	Ant 3a + Ant 3a	Ant 2 + Ant 1a/Ant 1b
10	Ant 3a + Ant 3a	Ant 2 + Ant WF5B
11	Ant 3a + Ant WF5T	Ant 2 + Ant 1a/Ant 1b
12	Ant 3a + Ant WF5T	Ant 2 + Ant WF5B
13	Ant 3b + Ant 3a	Ant 1a + Ant 1a/Ant 1b
14	Ant 3b + Ant 3a	Ant 1a + Ant WF5B
15	Ant 3b + Ant WF5T	Ant 1a + Ant 1a/Ant 1b
16	Ant 3b + Ant WF5T	Ant 1a + Ant WF5B
17	Ant 3b + Ant 3a	Ant 1b + Ant 1a/Ant 1b
18	Ant 3b + Ant 3a	Ant 1b + Ant WF5B
19	Ant 3b + Ant WF5T	Ant 1b + Ant 1a/Ant 1b
20	Ant 3b + Ant WF5T	Ant 1b + Ant WF5B
21	Ant 3b + Ant 3a	Ant 2 + Ant 1a/Ant 1b
22	Ant 3b + Ant 3a	Ant 2 + Ant WF5B
23	Ant 3b + Ant WF5T	Ant 2 + Ant 1a/Ant 1b
24	Ant 3b + Ant WF5T	Ant 2 + Ant WF5B
25	Ant 4 + Ant 3a	Ant 1a + Ant 1a/Ant 1b
26	Ant 4 + Ant 3a	Ant 1a + Ant WF5B
27	Ant 4 + Ant WF5T	Ant 1a + Ant 1a/Ant 1b
28	Ant 4 + Ant WF5T	Ant 1a + Ant WF5B
29	Ant 4 + Ant 3a	Ant 1b + Ant 1a/Ant 1b
30	Ant 4 + Ant 3a	Ant 1b + Ant WF5B
31	Ant 4 + Ant WF5T	Ant 1b + Ant 1a/Ant 1b
32	Ant 4 + Ant WF5T	Ant 1b + Ant WF5B
33	Ant 4 + Ant 3a	Ant 2 + Ant 1a/Ant 1b
34	Ant 4 + Ant 3a	Ant 2 + Ant WF5B
35	Ant 4 + Ant WF5T	Ant 2 + Ant 1a/Ant 1b
36	Ant 4 + Ant WF5T	Ant 2 + Ant WF5B

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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) and AC2 (Ant 1a + Ant 1a,1b)

E.4.1.1 Back Antenna Cluster Summation

Table E-1

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a NR Band n25	Ant 3a 2.4 GHz Bluetooth	1.176 + 0.394	0.735 + 0.246	0.981
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	1.183 + 0.394	0.739 + 0.246	0.985
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a LTE Band 41	Ant 3a 2.4 GHz Bluetooth	1.191 + 0.394	0.744 + 0.246	0.990

Table E-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	0.897 + 0.398	0.561 + 0.249	0.810
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	0.880 + 0.398	0.550 + 0.249	0.799

E.4.1.1 Back Antenna Cluster 1 + 2 SPLSR

Table E-3

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		a	b	a + b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.986	0.810	1.796	199.57	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.986	0.799	1.785	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.981	0.810	1.791	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.981	0.799	1.780	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.985	0.810	1.795	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.985	0.799	1.784	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.986	0.810	1.796	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.986	0.799	1.785	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.990	0.810	1.800	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.990	0.799	1.789	199.57	0.01

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E.4.1.2 Top Antenna Cluster Summation

Table E-4

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.835 + 0.216	0.522 + 0.135	0.657
Ant 3a LTE Band 25	Ant 3a 2.4 GHz WIFI	0.697 + 0.216	0.436 + 0.135	0.571
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.752 + 0.216	0.470 + 0.135	0.605
Ant 3a LTE Band 7	Ant 3a 2.4 GHz WIFI	0.690 + 0.216	0.431 + 0.135	0.566
Ant 3a LTE Band 41	Ant 3a 2.4 GHz WIFI	0.682 + 0.216	0.426 + 0.135	0.561

Table E-5

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	0.042 + 0.019	0.026 + 0.012	0.038
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	0.043 + 0.019	0.027 + 0.012	0.039

E.4.1.3 Top Antenna Cluster 1 + 2 SPLSR

Table E-6

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		a	b	a + b	D _{a-b}
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.657	0.038	0.695	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.657	0.039	0.696	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.571	0.038	0.609	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.571	0.039	0.610	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.605	0.038	0.643	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.605	0.039	0.644	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.566	0.038	0.604	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.566	0.039	0.605	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.561	0.038	0.599	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.561	0.039	0.600	68.98

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

E.4.1.4 Bottom Antenna Cluster Summation

Table E-7

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.065 + 0.015	0.041 + 0.009	0.050
Ant 3a UMTS 1900	Ant 3a 2.4 GHz WIFI	0.088 + 0.015	0.055 + 0.009	0.064
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.053 + 0.015	0.033 + 0.009	0.042
Ant 3a NR Band n7	Ant 3a 2.4 GHz WIFI	0.033 + 0.015	0.021 + 0.009	0.030
Ant 3a NR Band n41	Ant 3a 2.4 GHz WIFI	0.030 + 0.015	0.019 + 0.009	0.028

Table E-8

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant 1b 5 GHz WIFI	0.315 + 0.392	0.197 + 0.245	0.442
Ant 1a NR Band n77 DoD	Ant 1b 5 GHz WIFI	0.259 + 0.392	0.162 + 0.245	0.407

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E.4.1.5 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-9

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.050	0.442	0.492	42.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.050	0.407	0.457	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.064	0.442	0.506	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.064	0.407	0.471	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.042	0.442	0.484	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.042	0.407	0.449	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.030	0.442	0.472	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.030	0.407	0.437	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.028	0.442	0.470	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.028	0.407	0.435	42.23

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

E.4.1.6 Right Antenna Cluster Summation

Table E-10

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.832 + 0.331	0.520 + 0.207	0.727
Ant 3a LTE Band 25	Ant 3a 2.4 GHz Bluetooth	0.896 + 0.331	0.560 + 0.207	0.767
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	0.882 + 0.331	0.551 + 0.207	0.758
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.107 + 0.331	0.692 + 0.207	0.899
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	1.134 + 0.331	0.709 + 0.207	0.916

Table E-11

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant 1b 6 GHz WIFI	0.016 + 0.028	0.010 + 0.018	0.028
Ant 1a NR Band n77 DoD	Ant 1b 6 GHz WIFI	0.008 + 0.028	0.005 + 0.018	0.023

E.4.1.7 Right Antenna Cluster 1 + 2 SPLSR

Table E-12

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.727	0.028	0.755	112.70
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.727	0.023	0.750	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.767	0.028	0.795	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.767	0.023	0.790	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.758	0.028	0.786	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.758	0.023	0.781	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.899	0.028	0.927	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.899	0.023	0.922	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.916	0.028	0.944	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.916	0.023	0.939	112.70

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

E.4.1.8 Left Antenna Cluster Summation

Table E-13

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.011 + 0.004	0.007 + 0.003	0.010
Ant 3a UMTS 1900	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n30	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n7	Ant 3a 2.4 GHz Bluetooth	0.010 + 0.004	0.006 + 0.003	0.009
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	0.017 + 0.004	0.011 + 0.003	0.014

Table E-14

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	1.179 + 0.371	0.737 + 0.232	0.969
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	1.167 + 0.371	0.729 + 0.232	0.961

E.4.1.9 Left Antenna Cluster 1 + 2 SPLSR

Table E-15

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.010	0.969	0.979	94.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.010	0.961	0.971	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.011	0.969	0.980	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.011	0.961	0.972	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.011	0.969	0.980	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.011	0.961	0.972	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.009	0.969	0.978	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.009	0.961	0.970	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.014	0.969	0.983	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.014	0.961	0.975	94.23

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

E.4.2 Combination 2: AC1 (Ant 3a + Ant 3a) and AC2 (Ant 1a + Ant WF5B)

E.4.2.1 Back Antenna Cluster Summation

Table E-16

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a NR Band n25	Ant 3a 2.4 GHz Bluetooth	1.176 + 0.394	0.735 + 0.246	0.981
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	1.183 + 0.394	0.739 + 0.246	0.985
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a LTE Band 41	Ant 3a 2.4 GHz Bluetooth	1.191 + 0.394	0.744 + 0.246	0.990

Table E-17

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	0.897 + 0.089	0.561 + 0.056	0.617
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	0.880 + 0.089	0.550 + 0.056	0.606

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E.4.2.2 Back Antenna Cluster 1 + 2 SPLSR

Table E-18

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		a	b	$a + b$	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.986	0.617	1.603	171.82	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.986	0.606	1.592	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.981	0.617	1.598	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.981	0.606	1.587	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.985	0.617	1.602	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.985	0.606	1.591	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.986	0.617	1.603	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.986	0.606	1.592	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.990	0.617	1.607	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.990	0.606	1.596	171.82	0.01

E.4.2.3 Top Antenna Cluster Summation

Table E-19

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.835 + 0.216	0.522 + 0.135	0.657
Ant 3a LTE Band 25	Ant 3a 2.4 GHz WIFI	0.697 + 0.216	0.436 + 0.135	0.571
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.752 + 0.216	0.470 + 0.135	0.605
Ant 3a LTE Band 7	Ant 3a 2.4 GHz WIFI	0.690 + 0.216	0.431 + 0.135	0.566
Ant 3a LTE Band 41	Ant 3a 2.4 GHz WIFI	0.682 + 0.216	0.426 + 0.135	0.561

Table E-20

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B NB U-NII 3	0.042 + 0.000	0.026 + 0.000	0.026
Ant 1a NR Band n77 DoD	Ant WF5B NB U-NII 3	0.043 + 0.000	0.027 + 0.000	0.027

E.4.2.4 Top Antenna Cluster 1 + 2 SPLSR

Table E-21

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		a	b	$a + b$	D_{a-b}
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.657	0.026	0.683	75.25
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.657	0.027	0.684	75.25
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.571	0.026	0.597	75.25
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.571	0.027	0.598	75.25
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.605	0.026	0.631	75.25
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.605	0.027	0.632	75.25
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.566	0.026	0.592	75.25
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.566	0.027	0.593	75.25
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.561	0.026	0.587	75.25
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.561	0.027	0.588	75.25

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

E.4.2.5 Bottom Antenna Cluster Summation

Table E-22

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.065 + 0.015	0.041 + 0.009	0.050
Ant 3a UMTS 1900	Ant 3a 2.4 GHz WIFI	0.088 + 0.015	0.055 + 0.009	0.064
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.053 + 0.015	0.033 + 0.009	0.042
Ant 3a NR Band n7	Ant 3a 2.4 GHz WIFI	0.033 + 0.015	0.021 + 0.009	0.030
Ant 3a NR Band n41	Ant 3a 2.4 GHz WIFI	0.030 + 0.015	0.019 + 0.009	0.028

Table E-23

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 6 GHz WIFI	0.315 + 0.024	0.197 + 0.015	0.212
Ant 1a NR Band n77 DoD	Ant WF5B 6 GHz WIFI	0.259 + 0.024	0.162 + 0.015	0.177

E.4.2.6 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-24

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		a	b	a + b	D _{a-b}
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.050	0.212	0.262	61.64
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.050	0.177	0.227	61.64
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.064	0.212	0.276	61.64
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.064	0.177	0.241	61.64
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.042	0.212	0.254	61.64
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.042	0.177	0.219	61.64
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.030	0.212	0.242	61.64
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.030	0.177	0.207	61.64
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.028	0.212	0.240	61.64
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.028	0.177	0.205	61.64

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

E.4.2.7 Right Antenna Cluster Summation

Table E-25

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.832 + 0.331	0.520 + 0.207	0.727
Ant 3a LTE Band 25	Ant 3a 2.4 GHz Bluetooth	0.896 + 0.331	0.560 + 0.207	0.767
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	0.882 + 0.331	0.551 + 0.207	0.758
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.107 + 0.331	0.692 + 0.207	0.899
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	1.134 + 0.331	0.709 + 0.207	0.916

Table E-26

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	0.016 + 0.037	0.010 + 0.023	0.033
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	0.008 + 0.037	0.005 + 0.023	0.028

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E.4.2.8 Right Antenna Cluster 1 + 2 SPLSR

Table E-27

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.727	0.033	0.760	105.13
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.727	0.028	0.755	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.767	0.033	0.800	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.767	0.028	0.795	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.758	0.033	0.791	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.758	0.028	0.786	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.899	0.033	0.932	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.899	0.028	0.927	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.916	0.033	0.949	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.916	0.028	0.944	105.13

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

E.4.2.9 Left Antenna Cluster Summation

Table E-28

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.011 + 0.004	0.007 + 0.003	0.010
Ant 3a UMTS 1900	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n30	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n7	Ant 3a 2.4 GHz Bluetooth	0.010 + 0.004	0.006 + 0.003	0.009
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	0.017 + 0.004	0.011 + 0.003	0.014

Table E-29

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	1.179 + 0.400	0.737 + 0.250	0.987
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	1.167 + 0.400	0.729 + 0.250	0.979

E.4.2.10 Left Antenna Cluster 1 + 2 SPLSR

Table E-30

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.010	0.987	0.997	61.32	N/A
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.010	0.979	0.989	61.32	N/A
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.011	0.987	0.998	61.32	N/A
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.011	0.979	0.990	61.32	N/A
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.011	0.987	0.998	61.32	N/A
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.011	0.979	0.990	61.32	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.009	0.987	0.996	61.32	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.009	0.979	0.988	61.32	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.014	0.987	1.001	61.32	0.02
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.014	0.979	0.993	61.32	N/A

E.4.3 Combination 3: AC1 (Ant 3a + Ant WF5T) and AC2 (Ant 1a + Ant 1a,1b)

E.4.3.1 Back Antenna Cluster Summation

Table E-31

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a NR Band n25	Ant WF5T NB U-NII 3	1.176 + 0.068	0.735 + 0.043	0.778
Ant 3a LTE Band 30	Ant WF5T NB U-NII 3	1.183 + 0.068	0.739 + 0.043	0.782
Ant 3a LTE Band 7	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a LTE Band 41	Ant WF5T NB U-NII 3	1.191 + 0.068	0.744 + 0.043	0.787

Table E-32

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	0.897 + 0.398	0.561 + 0.249	0.810
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	0.880 + 0.398	0.550 + 0.249	0.799

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E.4.3.2 Back Antenna Cluster 1 + 2 SPLSR

Table E-33

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.783	0.810	1.593	120.73	0.02
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.783	0.799	1.582	120.73	0.02
Ant 3a NR Band n25 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.778	0.810	1.588	120.73	0.02
Ant 3a NR Band n25 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.778	0.799	1.577	120.73	0.02
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.782	0.810	1.592	120.73	0.02
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.782	0.799	1.581	120.73	0.02
Ant 3a LTE Band 7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.783	0.810	1.593	120.73	0.02
Ant 3a LTE Band 7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.783	0.799	1.582	120.73	0.02
Ant 3a LTE Band 41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.787	0.810	1.597	120.73	0.02
Ant 3a LTE Band 41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.787	0.799	1.586	120.73	0.02

E.4.3.3 Top Antenna Cluster Summation

Table E-34

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T 5 GHz WIFI	0.835 + 0.001	0.522 + 0.001	0.523
Ant 3a LTE Band 25	Ant WF5T 5 GHz WIFI	0.697 + 0.001	0.436 + 0.001	0.437
Ant 3a LTE Band 30	Ant WF5T 5 GHz WIFI	0.752 + 0.001	0.470 + 0.001	0.471
Ant 3a LTE Band 7	Ant WF5T 5 GHz WIFI	0.690 + 0.001	0.431 + 0.001	0.432
Ant 3a LTE Band 41	Ant WF5T 5 GHz WIFI	0.682 + 0.001	0.426 + 0.001	0.427

Table E-35

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	0.042 + 0.019	0.026 + 0.012	0.038
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	0.043 + 0.019	0.027 + 0.012	0.039

E.4.3.4 Top Antenna Cluster 1 + 2 SPLSR

Table E-36

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.523	0.038	0.561	0.00
Ant 3a LTE Band 66 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.523	0.039	0.562	0.00
Ant 3a LTE Band 25 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.437	0.038	0.475	0.00
Ant 3a LTE Band 25 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.437	0.039	0.476	0.00
Ant 3a LTE Band 30 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.471	0.038	0.509	0.00
Ant 3a LTE Band 30 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.471	0.039	0.510	0.00
Ant 3a LTE Band 7 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.432	0.038	0.470	0.00
Ant 3a LTE Band 7 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.432	0.039	0.471	0.00
Ant 3a LTE Band 41 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.427	0.038	0.465	0.00
Ant 3a LTE Band 41 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.427	0.039	0.466	0.00

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

E.4.3.5 Bottom Antenna Cluster Summation

Table E-37

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	0.065 + 0.000	0.041 + 0.000	0.041
Ant 3a UMTS 1900	Ant WF5T NB U-NII 3	0.088 + 0.000	0.055 + 0.000	0.055
Ant 3a LTE Band 30	Ant WF5T NB U-NII 3	0.053 + 0.000	0.033 + 0.000	0.033
Ant 3a NR Band n7	Ant WF5T NB U-NII 3	0.033 + 0.000	0.021 + 0.000	0.021
Ant 3a NR Band n41	Ant WF5T NB U-NII 3	0.030 + 0.000	0.019 + 0.000	0.019

Table E-38

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant 1b 5 GHz WIFI	0.315 + 0.392	0.197 + 0.245	0.442
Ant 1a NR Band n77 DoD	Ant 1b 5 GHz WIFI	0.259 + 0.392	0.162 + 0.245	0.407

E.4.3.6 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-39

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		a	b	a + b	D _{a-b}
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.041	0.442	0.483	19.93
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.041	0.407	0.448	19.93
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.055	0.442	0.497	19.93
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.055	0.407	0.462	19.93
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.033	0.442	0.475	19.93
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.033	0.407	0.440	19.93
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.021	0.442	0.463	19.93
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.021	0.407	0.428	19.93
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1b 5 GHz WIFI	0.019	0.442	0.461	19.93
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1b 5 GHz WIFI	0.019	0.407	0.426	19.93

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

E.4.3.7 Right Antenna Cluster Summation

Table E-40

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T 6 GHz WIFI	0.832 + 0.027	0.520 + 0.017	0.537
Ant 3a LTE Band 25	Ant WF5T 6 GHz WIFI	0.896 + 0.027	0.560 + 0.017	0.577
Ant 3a LTE Band 30	Ant WF5T 6 GHz WIFI	0.882 + 0.027	0.551 + 0.017	0.568
Ant 3a LTE Band 7	Ant WF5T 6 GHz WIFI	1.107 + 0.027	0.692 + 0.017	0.709
Ant 3a NR Band n41	Ant WF5T 6 GHz WIFI	1.134 + 0.027	0.709 + 0.017	0.726

Table E-41

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant 1b 6 GHz WIFI	0.016 + 0.028	0.010 + 0.018	0.028
Ant 1a NR Band n77 DoD	Ant 1b 6 GHz WIFI	0.008 + 0.028	0.005 + 0.018	0.023

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E.4.3.8 Right Antenna Cluster 1 + 2 SPLSR

Table E-42

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.537	0.028	0.565	69.89
Ant 3a LTE Band 66 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.537	0.023	0.560	69.89
Ant 3a LTE Band 25 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.577	0.028	0.605	69.89
Ant 3a LTE Band 25 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.577	0.023	0.600	69.89
Ant 3a LTE Band 30 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.568	0.028	0.596	69.89
Ant 3a LTE Band 30 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.568	0.023	0.591	69.89
Ant 3a LTE Band 7 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.709	0.028	0.737	69.89
Ant 3a LTE Band 7 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.709	0.023	0.732	69.89
Ant 3a NR Band n41 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant 1b 6 GHz WIFI	0.726	0.028	0.754	69.89
Ant 3a NR Band n41 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant 1b 6 GHz WIFI	0.726	0.023	0.749	69.89

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

E.4.3.9 Left Antenna Cluster Summation

Table E-43

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	0.011 + 0.399	0.007 + 0.249	0.256
Ant 3a UMTS 1900	Ant WF5T NB U-NII 3	0.013 + 0.399	0.008 + 0.249	0.257
Ant 3a NR Band n30	Ant WF5T NB U-NII 3	0.013 + 0.399	0.008 + 0.249	0.257
Ant 3a NR Band n7	Ant WF5T NB U-NII 3	0.010 + 0.399	0.006 + 0.249	0.255
Ant 3a NR Band n41	Ant WF5T NB U-NII 3	0.017 + 0.399	0.011 + 0.249	0.260

Table E-44

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	1.179 + 0.371	0.737 + 0.232	0.969
Ant 1a NR Band n77 DoD	Ant 1a 2.4 GHz WIFI	1.167 + 0.371	0.729 + 0.232	0.961

E.4.3.10 Left Antenna Cluster 1 + 2 SPLSR

Table E-45

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.256	0.969	1.225	84.11	0.02
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.256	0.961	1.217	84.11	0.02
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.257	0.969	1.226	84.11	0.02
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.257	0.961	1.218	84.11	0.02
Ant 3a NR Band n30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.257	0.969	1.226	84.11	0.02
Ant 3a NR Band n30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.257	0.961	1.218	84.11	0.02
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.255	0.969	1.224	84.11	0.02
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.255	0.961	1.216	84.11	0.02
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant 1a 2.4 GHz WIFI	0.260	0.969	1.229	84.11	0.02
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant 1a 2.4 GHz WIFI	0.260	0.961	1.221	84.11	0.02

E.4.4 Combination 4: AC1 (Ant 3a + Ant WF5T) and AC2 (Ant 1a + Ant WF5B)

E.4.4.1 Back Antenna Cluster Summation

Table E-46

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a NR Band n25	Ant WF5T NB U-NII 3	1.176 + 0.068	0.735 + 0.043	0.778
Ant 3a LTE Band 30	Ant WF5T NB U-NII 3	1.183 + 0.068	0.739 + 0.043	0.782
Ant 3a LTE Band 7	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a LTE Band 41	Ant WF5T NB U-NII 3	1.191 + 0.068	0.744 + 0.043	0.787

Table E-47

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	0.897 + 0.089	0.561 + 0.056	0.617
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	0.880 + 0.089	0.550 + 0.056	0.606

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E.4.4.2 Back Antenna Cluster 1 + 2 SPLSR

Table E-48

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio	Aggregate 1g Reported SAR
		Exposure Ratio 1	Exposure Ratio 2				
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>	$(a+b)^{1.5}/D_{a-b}$	(W/kg)
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.783	0.617	1.400	54.53	0.03	1.050
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.783	0.606	1.389	54.53	0.03	1.050
Ant 3a NR Band n25 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.778	0.617	1.395	54.53	0.03	1.040
Ant 3a NR Band n25 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.778	0.606	1.384	54.53	0.03	1.030
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.782	0.617	1.399	54.53	0.03	1.200
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.782	0.606	1.388	54.53	0.03	1.200
Ant 3a LTE Band 7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.783	0.617	1.400	54.53	0.03	1.330
Ant 3a LTE Band 7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.783	0.606	1.389	54.53	0.03	1.330
Ant 3a LTE Band 41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.787	0.617	1.404	54.53	0.03	1.340
Ant 3a LTE Band 41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.787	0.606	1.393	54.53	0.03	1.340

E.4.4.3 Top Antenna Cluster Summation

Table E-49

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T 5 GHz WIFI	0.835 + 0.001	0.522 + 0.001	0.523
Ant 3a LTE Band 25	Ant WF5T 5 GHz WIFI	0.697 + 0.001	0.436 + 0.001	0.437
Ant 3a LTE Band 30	Ant WF5T 5 GHz WIFI	0.752 + 0.001	0.470 + 0.001	0.471
Ant 3a LTE Band 7	Ant WF5T 5 GHz WIFI	0.690 + 0.001	0.431 + 0.001	0.432
Ant 3a LTE Band 41	Ant WF5T 5 GHz WIFI	0.682 + 0.001	0.426 + 0.001	0.427

Table E-50

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B NB U-NII 3	0.042 + 0.000	0.026 + 0.000	0.026
Ant 1a NR Band n77 DoD	Ant WF5B NB U-NII 3	0.043 + 0.000	0.027 + 0.000	0.027

E.4.4.4 Top Antenna Cluster 1 + 2 SPLSR

Table E-51

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.523	0.026	0.549	4.00
Ant 3a LTE Band 66 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.523	0.027	0.550	4.00
Ant 3a LTE Band 25 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.437	0.026	0.463	4.00
Ant 3a LTE Band 25 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.437	0.027	0.464	4.00
Ant 3a LTE Band 30 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.471	0.026	0.497	4.00
Ant 3a LTE Band 30 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.471	0.027	0.498	4.00
Ant 3a LTE Band 7 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.432	0.026	0.458	4.00
Ant 3a LTE Band 7 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.432	0.027	0.459	4.00
Ant 3a LTE Band 41 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B NB U-NII 3	0.427	0.026	0.453	4.00
Ant 3a LTE Band 41 + Ant WF5T 5 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B NB U-NII 3	0.427	0.027	0.454	4.00

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

E.4.4.5 Bottom Antenna Cluster Summation

Table E-52

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	0.065 + 0.000	0.041 + 0.000	0.041
Ant 3a UMTS 1900	Ant WF5T NB U-NII 3	0.088 + 0.000	0.055 + 0.000	0.055
Ant 3a LTE Band 30	Ant WF5T NB U-NII 3	0.053 + 0.000	0.033 + 0.000	0.033
Ant 3a NR Band n7	Ant WF5T NB U-NII 3	0.033 + 0.000	0.021 + 0.000	0.021
Ant 3a NR Band n41	Ant WF5T NB U-NII 3	0.030 + 0.000	0.019 + 0.000	0.019

Table E-53

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 6 GHz WIFI	0.315 + 0.024	0.197 + 0.015	0.212
Ant 1a NR Band n77 DoD	Ant WF5B 6 GHz WIFI	0.259 + 0.024	0.162 + 0.015	0.177

E.4.4.6 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-54

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		a	b	a + b	D _{a-b}
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.041	0.212	0.253	12.75
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.041	0.177	0.218	12.75
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.055	0.212	0.267	12.75
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.055	0.177	0.232	12.75
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.033	0.212	0.245	12.75
Ant 3a LTE Band 30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.033	0.177	0.210	12.75
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.021	0.212	0.233	12.75
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.021	0.177	0.198	12.75
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 6 GHz WIFI	0.019	0.212	0.231	12.75
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 6 GHz WIFI	0.019	0.177	0.196	12.75

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

E.4.4.7 Right Antenna Cluster Summation

Table E-55

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T 6 GHz WIFI	0.832 + 0.027	0.520 + 0.017	0.537
Ant 3a LTE Band 25	Ant WF5T 6 GHz WIFI	0.896 + 0.027	0.560 + 0.017	0.577
Ant 3a LTE Band 30	Ant WF5T 6 GHz WIFI	0.882 + 0.027	0.551 + 0.017	0.568
Ant 3a LTE Band 7	Ant WF5T 6 GHz WIFI	1.107 + 0.027	0.692 + 0.017	0.709
Ant 3a NR Band n41	Ant WF5T 6 GHz WIFI	1.134 + 0.027	0.709 + 0.017	0.726

Table E-56

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	0.016 + 0.037	0.010 + 0.023	0.033
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	0.008 + 0.037	0.005 + 0.023	0.028

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E.4.4.8 Right Antenna Cluster 1 + 2 SPLSR

Table E-57

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.537	0.033	0.570	47.73
Ant 3a LTE Band 66 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.537	0.028	0.565	47.73
Ant 3a LTE Band 25 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.577	0.033	0.610	47.73
Ant 3a LTE Band 25 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.577	0.028	0.605	47.73
Ant 3a LTE Band 30 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.568	0.033	0.601	47.73
Ant 3a LTE Band 30 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.568	0.028	0.596	47.73
Ant 3a LTE Band 7 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.709	0.033	0.742	47.73
Ant 3a LTE Band 7 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.709	0.028	0.737	47.73
Ant 3a NR Band n41 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.726	0.033	0.759	47.73
Ant 3a NR Band n41 + Ant WF5T 6 GHz WIFI	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz WIFI	0.726	0.028	0.754	47.73

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

E.4.4.9 Left Antenna Cluster Summation

Table E-58

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	0.011 + 0.399	0.007 + 0.249	0.256
Ant 3a UMTS 1900	Ant WF5T NB U-NII 3	0.013 + 0.399	0.008 + 0.249	0.257
Ant 3a NR Band n30	Ant WF5T NB U-NII 3	0.013 + 0.399	0.008 + 0.249	0.257
Ant 3a NR Band n7	Ant WF5T NB U-NII 3	0.010 + 0.399	0.006 + 0.249	0.255
Ant 3a NR Band n41	Ant WF5T NB U-NII 3	0.017 + 0.399	0.011 + 0.249	0.260

Table E-59

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1a NR Band n48	Ant WF5B 5 GHz WIFI	1.179 + 0.400	0.737 + 0.250	0.987
Ant 1a NR Band n77 DoD	Ant WF5B 5 GHz WIFI	1.167 + 0.400	0.729 + 0.250	0.979

E.4.4.10 Left Antenna Cluster 1 + 2 SPLSR

Table E-60

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 WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.256	0.987	1.243	50.95	0.03	1.250
Ant 3a LTE Band 66 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.256	0.979	1.235	50.95	0.03	1.230
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.257	0.987	1.244	50.95	0.03	1.250
Ant 3a UMTS 1900 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.257	0.979	1.236	50.95	0.03	1.220
Ant 3a NR Band n30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.257	0.987	1.244	50.95	0.03	1.250
Ant 3a NR Band n30 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.257	0.979	1.236	50.95	0.03	1.220
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.255	0.987	1.242	50.95	0.03	1.240
Ant 3a NR Band n7 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.255	0.979	1.234	50.95	0.03	1.220
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n48 + Ant WF5B 5 GHz WIFI	0.260	0.987	1.247	50.95	0.03	1.250
Ant 3a NR Band n41 + Ant WF5T NB U-NII 3	Ant 1a NR Band n77 DoD + Ant WF5B 5 GHz W	0.260	0.979	1.239	50.95	0.03	1.220

E.4.5 Combination 5: AC1 (Ant 3a + Ant 3a) and AC2 (Ant 1b + Ant 1a,1b)

E.4.5.1 Back Antenna Cluster Summation

Table E-61

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a NR Band n25	Ant 3a 2.4 GHz Bluetooth	1.176 + 0.394	0.735 + 0.246	0.981
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	1.183 + 0.394	0.739 + 0.246	0.985
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a LTE Band 41	Ant 3a 2.4 GHz Bluetooth	1.191 + 0.394	0.744 + 0.246	0.990

Table E-62

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b UMTS 1750	Ant 1a 2.4 GHz WIFI	1.188 + 0.398	0.743 + 0.249	0.992
Ant 1b LTE Band 25	Ant 1a 2.4 GHz WIFI	1.153 + 0.398	0.721 + 0.249	0.970
Ant 1b NR Band n30	Ant 1a 2.4 GHz WIFI	1.103 + 0.398	0.689 + 0.249	0.938
Ant 1b LTE Band 7	Ant 1a 2.4 GHz WIFI	1.028 + 0.398	0.643 + 0.249	0.892
Ant 1b LTE Band 41	Ant 1a 2.4 GHz WIFI	1.156 + 0.398	0.723 + 0.249	0.972

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E.4.5.2 Back Antenna Cluster 1 + 2 SPLSR

Table E-63

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		a	b	$a + b$	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI	0.986	0.992	1.978	199.57	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.986	0.970	1.956	199.57	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.986	0.938	1.924	199.57	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1a 2.4 GHz WIFI	0.986	0.892	1.878	199.57	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.986	0.972	1.958	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI	0.981	0.992	1.973	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.981	0.970	1.951	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.981	0.938	1.919	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1a 2.4 GHz WIFI	0.981	0.892	1.873	199.57	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.981	0.972	1.953	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI	0.985	0.992	1.977	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.985	0.970	1.955	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.985	0.938	1.923	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1a 2.4 GHz WIFI	0.985	0.892	1.877	199.57	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.985	0.972	1.957	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI	0.986	0.992	1.978	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.986	0.970	1.956	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.986	0.938	1.924	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1a 2.4 GHz WIFI	0.986	0.892	1.878	199.57	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.986	0.972	1.958	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant 1a 2.4 GHz WIFI	0.990	0.992	1.982	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.990	0.970	1.960	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.990	0.938	1.928	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1a 2.4 GHz WIFI	0.990	0.892	1.882	199.57	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.990	0.972	1.962	199.57	0.01

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E.4.5.3 Top Antenna Cluster Summation

Table E-64

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.835 + 0.216	0.522 + 0.135	0.657
Ant 3a LTE Band 25	Ant 3a 2.4 GHz WIFI	0.697 + 0.216	0.436 + 0.135	0.571
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.752 + 0.216	0.470 + 0.135	0.605
Ant 3a LTE Band 7	Ant 3a 2.4 GHz WIFI	0.690 + 0.216	0.431 + 0.135	0.566
Ant 3a LTE Band 41	Ant 3a 2.4 GHz WIFI	0.682 + 0.216	0.426 + 0.135	0.561

Table E-65

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n66	Ant 1a 2.4 GHz WIFI	0.017 + 0.019	0.011 + 0.012	0.023
Ant 1b LTE Band 25	Ant 1a 2.4 GHz WIFI	0.023 + 0.019	0.014 + 0.012	0.026
Ant 1b LTE Band 30	Ant 1a 2.4 GHz WIFI	0.004 + 0.019	0.003 + 0.012	0.015
Ant 1b NR Band n7	Ant 1a 2.4 GHz WIFI	0.007 + 0.019	0.004 + 0.012	0.016
Ant 1b NR Band n41	Ant 1a 2.4 GHz WIFI	0.007 + 0.019	0.004 + 0.012	0.016

E.4.5.4 Top Antenna Cluster 1 + 2 SPLSR

Table E-66

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.657	0.023	0.680	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.657	0.026	0.683	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI	0.657	0.015	0.672	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.657	0.016	0.673	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant 1a 2.4 GHz WIFI	0.657	0.016	0.673	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.571	0.023	0.594	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.571	0.026	0.597	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI	0.571	0.015	0.586	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.571	0.016	0.587	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant 1a 2.4 GHz WIFI	0.571	0.016	0.587	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.605	0.023	0.628	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.605	0.026	0.631	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI	0.605	0.015	0.620	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.605	0.016	0.621	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant 1a 2.4 GHz WIFI	0.605	0.016	0.621	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.566	0.023	0.589	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.566	0.026	0.592	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI	0.566	0.015	0.581	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.566	0.016	0.582	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant 1a 2.4 GHz WIFI	0.566	0.016	0.582	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.561	0.023	0.584	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.561	0.026	0.587	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1a 2.4 GHz WIFI	0.561	0.015	0.576	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.561	0.016	0.577	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant 1a 2.4 GHz WIFI	0.561	0.016	0.577	68.98

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

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E.4.5.5 Bottom Antenna Cluster Summation

Table E-67

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.065 + 0.015	0.041 + 0.009	0.050
Ant 3a UMTS 1900	Ant 3a 2.4 GHz WIFI	0.088 + 0.015	0.055 + 0.009	0.064
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.053 + 0.015	0.033 + 0.009	0.042
Ant 3a NR Band n7	Ant 3a 2.4 GHz WIFI	0.033 + 0.015	0.021 + 0.009	0.030
Ant 3a NR Band n41	Ant 3a 2.4 GHz WIFI	0.030 + 0.015	0.019 + 0.009	0.028

Table E-68

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n70	Ant 1b 5 GHz WIFI	1.166 + 0.392	0.729 + 0.245	0.974
Ant 1b UMTS 1900	Ant 1b 5 GHz WIFI	1.183 + 0.392	0.739 + 0.245	0.984
Ant 1b LTE Band 30	Ant 1b 5 GHz WIFI	1.175 + 0.392	0.734 + 0.245	0.979
Ant 1b LTE Band 7	Ant 1b 5 GHz WIFI	1.164 + 0.392	0.728 + 0.245	0.973
Ant 1b LTE Band 41	Ant 1b 5 GHz WIFI	1.175 + 0.392	0.734 + 0.245	0.979

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E.4.5.6 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-69

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio	Aggregate 1g Reported SAR
		Exposure Ratio 1	Exposure Ratio 2				
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>	$(a+b)^{1.5}/D_{a-b}$	<i>(W/kg)</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant 1b 5 GHz WIFI	0.050	0.974	1.024	42.23	0.02	N/A
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI	0.050	0.984	1.034	42.23	0.02	N/A
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1b 5 GHz WIFI	0.050	0.979	1.029	42.23	0.02	N/A
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI	0.050	0.973	1.023	42.23	0.02	N/A
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant 1b 5 GHz WIFI	0.050	0.979	1.029	42.23	0.02	N/A
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant 1b 5 GHz WIFI	0.064	0.974	1.038	42.23	0.03	1.440
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI	0.064	0.984	1.048	42.23	0.03	1.480
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1b 5 GHz WIFI	0.064	0.979	1.043	42.23	0.03	1.450
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI	0.064	0.973	1.037	42.23	0.03	1.420
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant 1b 5 GHz WIFI	0.064	0.979	1.043	42.23	0.03	1.400
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant 1b 5 GHz WIFI	0.042	0.974	1.016	42.23	0.02	N/A
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI	0.042	0.984	1.026	42.23	0.02	N/A
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1b 5 GHz WIFI	0.042	0.979	1.021	42.23	0.02	N/A
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI	0.042	0.973	1.015	42.23	0.02	N/A
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant 1b 5 GHz WIFI	0.042	0.979	1.021	42.23	0.02	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant 1b 5 GHz WIFI	0.030	0.974	1.004	42.23	0.02	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI	0.030	0.984	1.014	42.23	0.02	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1b 5 GHz WIFI	0.030	0.979	1.009	42.23	0.02	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI	0.030	0.973	1.003	42.23	0.02	N/A
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant 1b 5 GHz WIFI	0.030	0.979	1.009	42.23	0.02	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant 1b 5 GHz WIFI	0.028	0.974	1.002	42.23	0.02	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant 1b 5 GHz WIFI	0.028	0.984	1.012	42.23	0.02	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant 1b 5 GHz WIFI	0.028	0.979	1.007	42.23	0.02	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant 1b 5 GHz WIFI	0.028	0.973	1.001	42.23	0.02	N/A
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant 1b 5 GHz WIFI	0.028	0.979	1.007	42.23	0.02	N/A

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E.4.5.7 Right Antenna Cluster Summation

Table E-70

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.832 + 0.331	0.520 + 0.207	0.727
Ant 3a LTE Band 25	Ant 3a 2.4 GHz Bluetooth	0.896 + 0.331	0.560 + 0.207	0.767
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	0.882 + 0.331	0.551 + 0.207	0.758
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.107 + 0.331	0.692 + 0.207	0.899
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	1.134 + 0.331	0.709 + 0.207	0.916

Table E-71

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b LTE Band 66	Ant 1b 6 GHz WIFI	0.042 + 0.028	0.026 + 0.018	0.044
Ant 1b NR Band n25	Ant 1b 6 GHz WIFI	0.032 + 0.028	0.020 + 0.018	0.038
Ant 1b LTE Band 30	Ant 1b 6 GHz WIFI	0.029 + 0.028	0.018 + 0.018	0.036
Ant 1b LTE Band 7	Ant 1b 6 GHz WIFI	0.008 + 0.028	0.005 + 0.018	0.023
Ant 1b LTE Band 41	Ant 1b 6 GHz WIFI	0.036 + 0.028	0.023 + 0.018	0.041

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E.4.5.8 Right Antenna Cluster 1 + 2 SPLSR

Table E-72

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant 1b 6 GHz WIFI	0.727	0.044	0.771	112.70
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant 1b 6 GHz WIFI	0.727	0.038	0.765	112.70
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant 1b 6 GHz WIFI	0.727	0.036	0.763	112.70
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1b 6 GHz WIFI	0.727	0.023	0.750	112.70
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1b 6 GHz WIFI	0.727	0.041	0.768	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant 1b 6 GHz WIFI	0.767	0.044	0.811	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant 1b 6 GHz WIFI	0.767	0.038	0.805	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant 1b 6 GHz WIFI	0.767	0.036	0.803	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1b 6 GHz WIFI	0.767	0.023	0.790	112.70
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1b 6 GHz WIFI	0.767	0.041	0.808	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant 1b 6 GHz WIFI	0.758	0.044	0.802	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant 1b 6 GHz WIFI	0.758	0.038	0.796	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant 1b 6 GHz WIFI	0.758	0.036	0.794	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1b 6 GHz WIFI	0.758	0.023	0.781	112.70
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1b 6 GHz WIFI	0.758	0.041	0.799	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant 1b 6 GHz WIFI	0.899	0.044	0.943	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant 1b 6 GHz WIFI	0.899	0.038	0.937	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant 1b 6 GHz WIFI	0.899	0.036	0.935	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1b 6 GHz WIFI	0.899	0.023	0.922	112.70
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1b 6 GHz WIFI	0.899	0.041	0.940	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant 1b 6 GHz WIFI	0.916	0.044	0.960	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant 1b 6 GHz WIFI	0.916	0.038	0.954	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant 1b 6 GHz WIFI	0.916	0.036	0.952	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant 1b 6 GHz WIFI	0.916	0.023	0.939	112.70
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1b 6 GHz WIFI	0.916	0.041	0.957	112.70

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

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E.4.5.9 Left Antenna Cluster Summation

Table E-73

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.011 + 0.004	0.007 + 0.003	0.010
Ant 3a UMTS 1900	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n30	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n7	Ant 3a 2.4 GHz Bluetooth	0.010 + 0.004	0.006 + 0.003	0.009
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	0.017 + 0.004	0.011 + 0.003	0.014

Table E-74

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n66	Ant 1a 2.4 GHz WIFI	0.063 + 0.371	0.039 + 0.232	0.271
Ant 1b LTE Band 25	Ant 1a 2.4 GHz WIFI	0.062 + 0.371	0.039 + 0.232	0.271
Ant 1b NR Band n30	Ant 1a 2.4 GHz WIFI	0.033 + 0.371	0.021 + 0.232	0.253
Ant 1b NR Band n7	Ant 1a 2.4 GHz WIFI	0.071 + 0.371	0.044 + 0.232	0.276
Ant 1b LTE Band 41	Ant 1a 2.4 GHz WIFI	0.066 + 0.371	0.041 + 0.232	0.273

E.4.5.10 Left Antenna Cluster 1 + 2 SPLSR

Table E-75

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.010	0.271	0.281	94.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.010	0.271	0.281	94.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.010	0.253	0.263	94.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.010	0.276	0.286	94.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.010	0.273	0.283	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.011	0.271	0.282	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.011	0.271	0.282	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.011	0.253	0.264	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.011	0.276	0.287	94.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.011	0.273	0.284	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.011	0.271	0.282	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.011	0.271	0.282	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.011	0.253	0.264	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.011	0.276	0.287	94.23
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.011	0.273	0.284	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.009	0.271	0.280	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.009	0.271	0.280	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.009	0.253	0.262	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.009	0.276	0.285	94.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.009	0.273	0.282	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant 1a 2.4 GHz WIFI	0.014	0.271	0.285	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant 1a 2.4 GHz WIFI	0.014	0.271	0.285	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant 1a 2.4 GHz WIFI	0.014	0.253	0.267	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant 1a 2.4 GHz WIFI	0.014	0.276	0.290	94.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant 1a 2.4 GHz WIFI	0.014	0.273	0.287	94.23

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

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E.4.6 Combination 6: AC1 (Ant 3a + Ant 3a) and AC2 (Ant 1b + Ant WF5B)

E.4.6.1 Back Antenna Cluster Summation

Table E-76

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a NR Band n25	Ant 3a 2.4 GHz Bluetooth	1.176 + 0.394	0.735 + 0.246	0.981
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	1.183 + 0.394	0.739 + 0.246	0.985
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.184 + 0.394	0.740 + 0.246	0.986
Ant 3a LTE Band 41	Ant 3a 2.4 GHz Bluetooth	1.191 + 0.394	0.744 + 0.246	0.990

Table E-77

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b UMTS 1750	Ant WF5B 5 GHz WIFI	1.188 + 0.089	0.743 + 0.056	0.799
Ant 1b LTE Band 25	Ant WF5B 5 GHz WIFI	1.153 + 0.089	0.721 + 0.056	0.777
Ant 1b NR Band n30	Ant WF5B 5 GHz WIFI	1.103 + 0.089	0.689 + 0.056	0.745
Ant 1b LTE Band 7	Ant WF5B 5 GHz WIFI	1.028 + 0.089	0.643 + 0.056	0.699
Ant 1b LTE Band 41	Ant WF5B 5 GHz WIFI	1.156 + 0.089	0.723 + 0.056	0.779

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E.4.6.2 Back Antenna Cluster 1 + 2 SPLSR

Table E-78

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio 1	Exposure Ratio 2			
		a	b	$a + b$	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant WF5B 5 GHz WIFI	0.986	0.799	1.785	171.82	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.986	0.777	1.763	171.82	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.986	0.745	1.731	171.82	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.986	0.699	1.685	171.82	0.01
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.986	0.779	1.765	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant WF5B 5 GHz WIFI	0.981	0.799	1.780	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.981	0.777	1.758	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.981	0.745	1.726	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.981	0.699	1.680	171.82	0.01
Ant 3a NR Band n25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.981	0.779	1.760	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant WF5B 5 GHz WIFI	0.985	0.799	1.784	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.985	0.777	1.762	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.985	0.745	1.730	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.985	0.699	1.684	171.82	0.01
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.985	0.779	1.764	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant WF5B 5 GHz WIFI	0.986	0.799	1.785	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.986	0.777	1.763	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.986	0.745	1.731	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.986	0.699	1.685	171.82	0.01
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.986	0.779	1.765	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b UMTS 1750 + Ant WF5B 5 GHz WIFI	0.990	0.799	1.789	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.990	0.777	1.767	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.990	0.745	1.735	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.990	0.699	1.689	171.82	0.01
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.990	0.779	1.769	171.82	0.01

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E.4.6.3 Top Antenna Cluster Summation

Table E-79

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.835 + 0.216	0.522 + 0.135	0.657
Ant 3a LTE Band 25	Ant 3a 2.4 GHz WIFI	0.697 + 0.216	0.436 + 0.135	0.571
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.752 + 0.216	0.470 + 0.135	0.605
Ant 3a LTE Band 7	Ant 3a 2.4 GHz WIFI	0.690 + 0.216	0.431 + 0.135	0.566
Ant 3a LTE Band 41	Ant 3a 2.4 GHz WIFI	0.682 + 0.216	0.426 + 0.135	0.561

Table E-80

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n66	Ant WF5B NB U-NII 3	0.017 + 0.000	0.011 + 0.000	0.011
Ant 1b LTE Band 25	Ant WF5B NB U-NII 3	0.023 + 0.000	0.014 + 0.000	0.014
Ant 1b LTE Band 30	Ant WF5B NB U-NII 3	0.004 + 0.000	0.003 + 0.000	0.003
Ant 1b NR Band n7	Ant WF5B NB U-NII 3	0.007 + 0.000	0.004 + 0.000	0.004
Ant 1b NR Band n41	Ant WF5B NB U-NII 3	0.007 + 0.000	0.004 + 0.000	0.004

E.4.6.4 Top Antenna Cluster 1 + 2 SPLSR

Table E-81

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant WF5B NB U-NII 3	0.657	0.011	0.668	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant WF5B NB U-NII 3	0.657	0.014	0.671	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B NB U-NII 3	0.657	0.003	0.660	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant WF5B NB U-NII 3	0.657	0.004	0.661	68.98
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant WF5B NB U-NII 3	0.657	0.004	0.661	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant WF5B NB U-NII 3	0.571	0.011	0.582	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant WF5B NB U-NII 3	0.571	0.014	0.585	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B NB U-NII 3	0.571	0.003	0.574	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant WF5B NB U-NII 3	0.571	0.004	0.575	68.98
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant WF5B NB U-NII 3	0.571	0.004	0.575	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant WF5B NB U-NII 3	0.605	0.011	0.616	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant WF5B NB U-NII 3	0.605	0.014	0.619	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B NB U-NII 3	0.605	0.003	0.608	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant WF5B NB U-NII 3	0.605	0.004	0.609	68.98
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant WF5B NB U-NII 3	0.605	0.004	0.609	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant WF5B NB U-NII 3	0.566	0.011	0.577	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant WF5B NB U-NII 3	0.566	0.014	0.580	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B NB U-NII 3	0.566	0.003	0.569	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant WF5B NB U-NII 3	0.566	0.004	0.570	68.98
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant WF5B NB U-NII 3	0.566	0.004	0.570	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n66 + Ant WF5B NB U-NII 3	0.561	0.011	0.572	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 25 + Ant WF5B NB U-NII 3	0.561	0.014	0.575	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B NB U-NII 3	0.561	0.003	0.564	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n7 + Ant WF5B NB U-NII 3	0.561	0.004	0.565	68.98
Ant 3a LTE Band 41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n41 + Ant WF5B NB U-NII 3	0.561	0.004	0.565	68.98

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

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E.4.6.5 Bottom Antenna Cluster Summation

Table E-82

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz WIFI	0.065 + 0.015	0.041 + 0.009	0.050
Ant 3a UMTS 1900	Ant 3a 2.4 GHz WIFI	0.088 + 0.015	0.055 + 0.009	0.064
Ant 3a LTE Band 30	Ant 3a 2.4 GHz WIFI	0.053 + 0.015	0.033 + 0.009	0.042
Ant 3a NR Band n7	Ant 3a 2.4 GHz WIFI	0.033 + 0.015	0.021 + 0.009	0.030
Ant 3a NR Band n41	Ant 3a 2.4 GHz WIFI	0.030 + 0.015	0.019 + 0.009	0.028

Table E-83

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n70	Ant WF5B 6 GHz WIFI	1.166 + 0.024	0.729 + 0.015	0.744
Ant 1b UMTS 1900	Ant WF5B 6 GHz WIFI	1.183 + 0.024	0.739 + 0.015	0.754
Ant 1b LTE Band 30	Ant WF5B 6 GHz WIFI	1.175 + 0.024	0.734 + 0.015	0.749
Ant 1b LTE Band 7	Ant WF5B 6 GHz WIFI	1.164 + 0.024	0.728 + 0.015	0.743
Ant 1b LTE Band 41	Ant WF5B 6 GHz WIFI	1.175 + 0.024	0.734 + 0.015	0.749

E.4.6.6 Bottom Antenna Cluster 1 + 2 SPLSR

Table E-84

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant WF5B 6 GHz WIFI	0.050	0.744	0.794	42.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant WF5B 6 GHz WIFI	0.050	0.754	0.804	42.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B 6 GHz WIFI	0.050	0.749	0.799	42.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant WF5B 6 GHz WIFI	0.050	0.743	0.793	42.23
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant WF5B 6 GHz WIFI	0.050	0.749	0.799	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant WF5B 6 GHz WIFI	0.064	0.744	0.808	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant WF5B 6 GHz WIFI	0.064	0.754	0.818	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B 6 GHz WIFI	0.064	0.749	0.813	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant WF5B 6 GHz WIFI	0.064	0.743	0.807	42.23
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant WF5B 6 GHz WIFI	0.064	0.749	0.813	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant WF5B 6 GHz WIFI	0.042	0.744	0.786	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant WF5B 6 GHz WIFI	0.042	0.754	0.796	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B 6 GHz WIFI	0.042	0.749	0.791	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant WF5B 6 GHz WIFI	0.042	0.743	0.785	42.23
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant WF5B 6 GHz WIFI	0.042	0.749	0.791	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant WF5B 6 GHz WIFI	0.030	0.744	0.774	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant WF5B 6 GHz WIFI	0.030	0.754	0.784	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B 6 GHz WIFI	0.030	0.749	0.779	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant WF5B 6 GHz WIFI	0.030	0.743	0.773	42.23
Ant 3a NR Band n7 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant WF5B 6 GHz WIFI	0.030	0.749	0.779	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b NR Band n70 + Ant WF5B 6 GHz WIFI	0.028	0.744	0.772	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b UMTS 1900 + Ant WF5B 6 GHz WIFI	0.028	0.754	0.782	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 30 + Ant WF5B 6 GHz WIFI	0.028	0.749	0.777	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 7 + Ant WF5B 6 GHz WIFI	0.028	0.743	0.771	42.23
Ant 3a NR Band n41 + Ant 3a 2.4 GHz WIFI	Ant 1b LTE Band 41 + Ant WF5B 6 GHz WIFI	0.028	0.749	0.777	42.23

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

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E.4.6.7 Right Antenna Cluster Summation

Table E-85

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.832 + 0.331	0.520 + 0.207	0.727
Ant 3a LTE Band 25	Ant 3a 2.4 GHz Bluetooth	0.896 + 0.331	0.560 + 0.207	0.767
Ant 3a LTE Band 30	Ant 3a 2.4 GHz Bluetooth	0.882 + 0.331	0.551 + 0.207	0.758
Ant 3a LTE Band 7	Ant 3a 2.4 GHz Bluetooth	1.107 + 0.331	0.692 + 0.207	0.899
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	1.134 + 0.331	0.709 + 0.207	0.916

Table E-86

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b LTE Band 66	Ant WF5B 5 GHz WIFI	0.042 + 0.037	0.026 + 0.023	0.049
Ant 1b NR Band n25	Ant WF5B 5 GHz WIFI	0.032 + 0.037	0.020 + 0.023	0.043
Ant 1b LTE Band 30	Ant WF5B 5 GHz WIFI	0.029 + 0.037	0.018 + 0.023	0.041
Ant 1b LTE Band 7	Ant WF5B 5 GHz WIFI	0.008 + 0.037	0.005 + 0.023	0.028
Ant 1b LTE Band 41	Ant WF5B 5 GHz WIFI	0.036 + 0.037	0.023 + 0.023	0.046

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E.4.6.8 Right Antenna Cluster 1 + 2 SPLSR

Table E-87

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant WF5B 5 GHz WIFI	0.727	0.049	0.776	105.13
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant WF5B 5 GHz WIFI	0.727	0.043	0.770	105.13
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant WF5B 5 GHz WIFI	0.727	0.041	0.768	105.13
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.727	0.028	0.755	105.13
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.727	0.046	0.773	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant WF5B 5 GHz WIFI	0.767	0.049	0.816	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant WF5B 5 GHz WIFI	0.767	0.043	0.810	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant WF5B 5 GHz WIFI	0.767	0.041	0.808	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.767	0.028	0.795	105.13
Ant 3a LTE Band 25 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.767	0.046	0.813	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant WF5B 5 GHz WIFI	0.758	0.049	0.807	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant WF5B 5 GHz WIFI	0.758	0.043	0.801	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant WF5B 5 GHz WIFI	0.758	0.041	0.799	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.758	0.028	0.786	105.13
Ant 3a LTE Band 30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.758	0.046	0.804	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant WF5B 5 GHz WIFI	0.899	0.049	0.948	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant WF5B 5 GHz WIFI	0.899	0.043	0.942	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant WF5B 5 GHz WIFI	0.899	0.041	0.940	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.899	0.028	0.927	105.13
Ant 3a LTE Band 7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.899	0.046	0.945	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 66 + Ant WF5B 5 GHz WIFI	0.916	0.049	0.965	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n25 + Ant WF5B 5 GHz WIFI	0.916	0.043	0.959	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 30 + Ant WF5B 5 GHz WIFI	0.916	0.041	0.957	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 7 + Ant WF5B 5 GHz WIFI	0.916	0.028	0.944	105.13
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.916	0.046	0.962	105.13

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E.4.6.9 Left Antenna Cluster Summation

Table E-88

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant 3a 2.4 GHz Bluetooth	0.011 + 0.004	0.007 + 0.003	0.010
Ant 3a UMTS 1900	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n30	Ant 3a 2.4 GHz Bluetooth	0.013 + 0.004	0.008 + 0.003	0.011
Ant 3a NR Band n7	Ant 3a 2.4 GHz Bluetooth	0.010 + 0.004	0.006 + 0.003	0.009
Ant 3a NR Band n41	Ant 3a 2.4 GHz Bluetooth	0.017 + 0.004	0.011 + 0.003	0.014

Table E-89

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b NR Band n66	Ant WF5B 5 GHz WIFI	0.063 + 0.400	0.039 + 0.250	0.289
Ant 1b LTE Band 25	Ant WF5B 5 GHz WIFI	0.062 + 0.400	0.039 + 0.250	0.289
Ant 1b NR Band n30	Ant WF5B 5 GHz WIFI	0.033 + 0.400	0.021 + 0.250	0.271
Ant 1b NR Band n7	Ant WF5B 5 GHz WIFI	0.071 + 0.400	0.044 + 0.250	0.294
Ant 1b LTE Band 41	Ant WF5B 5 GHz WIFI	0.066 + 0.400	0.041 + 0.250	0.291

E.4.6.10 Left Antenna Cluster 1 + 2 SPLSR

Table E-90

AC1	AC2	Standalone Values		Standalone ER Sum	Peak Separation Distance (mm)
		Exposure Ratio 1	Exposure Ratio 2		
		<i>a</i>	<i>b</i>	<i>a + b</i>	<i>D_{a-b}</i>
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant WF5B 5 GHz WIFI	0.010	0.289	0.299	61.32
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.010	0.289	0.299	61.32
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.010	0.271	0.281	61.32
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant WF5B 5 GHz WIFI	0.010	0.294	0.304	61.32
Ant 3a LTE Band 66 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.010	0.291	0.301	61.32
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant WF5B 5 GHz WIFI	0.011	0.289	0.300	61.32
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.011	0.289	0.300	61.32
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.011	0.271	0.282	61.32
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant WF5B 5 GHz WIFI	0.011	0.294	0.305	61.32
Ant 3a UMTS 1900 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.011	0.291	0.302	61.32
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant WF5B 5 GHz WIFI	0.011	0.289	0.300	61.32
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.011	0.289	0.300	61.32
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.011	0.271	0.282	61.32
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant WF5B 5 GHz WIFI	0.011	0.294	0.305	61.32
Ant 3a NR Band n30 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.011	0.291	0.302	61.32
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant WF5B 5 GHz WIFI	0.009	0.289	0.298	61.32
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.009	0.289	0.298	61.32
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.009	0.271	0.280	61.32
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant WF5B 5 GHz WIFI	0.009	0.294	0.303	61.32
Ant 3a NR Band n7 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.009	0.291	0.300	61.32
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n66 + Ant WF5B 5 GHz WIFI	0.014	0.289	0.303	61.32
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 25 + Ant WF5B 5 GHz WIFI	0.014	0.289	0.303	61.32
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n30 + Ant WF5B 5 GHz WIFI	0.014	0.271	0.285	61.32
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b NR Band n7 + Ant WF5B 5 GHz WIFI	0.014	0.294	0.308	61.32
Ant 3a NR Band n41 + Ant 3a 2.4 GHz Bluetooth	Ant 1b LTE Band 41 + Ant WF5B 5 GHz WIFI	0.014	0.291	0.305	61.32

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E.4.7 Combination 7: AC1 (Ant 3a + Ant WF5T) and AC2 (Ant 1b + Ant 1a,1b)

E.4.7.1 Back Antenna Cluster Summation

Table E-91

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC1 Sum (ER)
Ant 3a LTE Band 66	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a NR Band n25	Ant WF5T NB U-NII 3	1.176 + 0.068	0.735 + 0.043	0.778
Ant 3a LTE Band 30	Ant WF5T NB U-NII 3	1.183 + 0.068	0.739 + 0.043	0.782
Ant 3a LTE Band 7	Ant WF5T NB U-NII 3	1.184 + 0.068	0.740 + 0.043	0.783
Ant 3a LTE Band 41	Ant WF5T NB U-NII 3	1.191 + 0.068	0.744 + 0.043	0.787

Table E-92

Ant "a"	Ant "b"	a + b (W/kg)	a + b (ER)	AC2 Sum (ER)
Ant 1b UMTS 1750	Ant 1a 2.4 GHz WIFI	1.188 + 0.398	0.743 + 0.249	0.992
Ant 1b LTE Band 25	Ant 1a 2.4 GHz WIFI	1.153 + 0.398	0.721 + 0.249	0.970
Ant 1b NR Band n30	Ant 1a 2.4 GHz WIFI	1.103 + 0.398	0.689 + 0.249	0.938
Ant 1b LTE Band 7	Ant 1a 2.4 GHz WIFI	1.028 + 0.398	0.643 + 0.249	0.892
Ant 1b LTE Band 41	Ant 1a 2.4 GHz WIFI	1.156 + 0.398	0.723 + 0.249	0.972