

APPENDIX E: MULTI-TX AND ANTENNA SAR CONSIDERATIONS

FCC ID: BCGA3595	RF EXPOSURE REPORT	Approved by: Technical Manager
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E.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit.

E.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR. Alternatively, simultaneous transmission SAR test exclusion may be evaluated using Total Exposure Ratio (TER).

Note:

This device is enabled with the manufacturer's time-averaged method of Tx power control for connectivity radios (WiFi, Bluetooth, NB U-NII and 802.15.4). Co-located connectivity antennas with significant overlap of RF exposure hotspots are grouped into a single cluster. There are four pre-defined antenna clusters (AC): AC0 (Ant WF5T), AC1 (Ant WF7), AC2 (Ant WF8), and AC3 (Ant WF5B).

When operating in the same antenna cluster, the compliance under dynamic transmission condition, including all supported simultaneous transmission scenarios, should be assessed and demonstrated in the TAS Report during algorithm validation. This applies to multiple antennas in the same antenna cluster or different modes transmitting simultaneously in the same antenna cluster. For the evaluation of simultaneous transmission analysis in this report, the highest SAR value across all modes in the same antenna cluster was considered for summation and most conservative to determine simultaneous SAR test exclusions.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission was treated independently for this configuration. See section E.6 for more information about the Spatial Separation Analysis.

** When required, each transmitter is tested for simultaneous transmission in the configuration, channel, and operating mode that resulted in the highest SAR during the stand-alone evaluation. Per November 2019 TCB Workshop Notes, enlarged volumetric scans on co-located antenna pairs were performed for all the modes/band for Antenna WF7, WF8, WF5T and WF5B to determine the aggregate distributions from the simultaneous transmission (volumetric) SAR evaluation.

E.3 Exposure Ratios

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

$$ER_{SAR,n} = \frac{SAR_n}{SAR_{limit,n}}, 10 \text{ MHz} < f_u \leq 6 \text{ GHz}$$

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.4 Body SAR Simultaneous Transmission Analysis

Table E-1

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.108	0.139	0.098	0.000	0.441
	Top	0.336	0.259	0.006	0.000	0.000	0.601
	Bottom	0.014	0.010	0.000	0.049	0.000	0.073
	Right	0.028	0.007	0.092	0.051	0.000	0.178
	Left	0.002	0.213	0.746	0.632	0.000	0.961*

Table E-2

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.060	0.108	0.139	0.000	0.343
	Top	0.336	0.524	0.259	0.006	0.000	0.789
	Bottom	0.014	0.006	0.010	0.000	0.000	0.024
	Right	0.028	0.088	0.007	0.092	0.000	0.187
	Left	0.002	0.000	0.213	0.746	0.000	0.961

Table E-3

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.108	0.025	0.031	0.000	0.260
	Top	0.336	0.259	0.009	0.000	0.000	0.604
	Bottom	0.014	0.010	0.002	0.024	0.000	0.050
	Right	0.028	0.007	0.023	0.021	0.000	0.079
	Left	0.002	0.213	0.296	0.237	0.000	0.748

Table E-4

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.033	0.108	0.025	0.000	0.229
	Top	0.336	0.344	0.259	0.009	0.000	0.612
	Bottom	0.014	0.003	0.010	0.002	0.000	0.026
	Right	0.028	0.010	0.007	0.023	0.000	0.058
	Left	0.002	0.000	0.213	0.296	0.000	0.511

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Table E-5
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.071	0.081	0.104	0.056	0.000	0.312
	Top	0.258	0.221	0.004	0.000	0.000	0.483
	Bottom	0.012	0.008	0.001	0.031	0.000	0.052
	Right	0.024	0.001	0.033	0.043	0.000	0.101
	Left	0.000	0.188	0.672	0.583	0.000	0.860*

Table E-6
Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	NB UNII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.071	0.071	0.081	0.104	0.000	0.256
	Top	0.258	0.447	0.221	0.004	0.000	0.672
	Bottom	0.012	0.013	0.008	0.001	0.000	0.022
	Right	0.024	0.030	0.001	0.033	0.000	0.064
	Left	0.000	0.000	0.188	0.672	0.000	0.860

Table E-7
Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.108	0.104	0.056	0.000	0.364
	Top	0.336	0.259	0.004	0.000	0.000	0.599
	Bottom	0.014	0.010	0.001	0.031	0.000	0.056
	Right	0.028	0.007	0.033	0.043	0.000	0.111
	Left	0.002	0.213	0.672	0.583	0.000	0.887*

Table E-8
Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB UNII Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.071	0.108	0.104	0.000	0.308
	Top	0.336	0.447	0.259	0.004	0.000	0.710
	Bottom	0.014	0.013	0.010	0.001	0.000	0.025
	Right	0.028	0.030	0.007	0.033	0.000	0.070
	Left	0.002	0.000	0.213	0.672	0.000	0.887

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Table E-9
Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TxBF and WPT

Sim Tx	Configuration	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.139	0.098	0.071	0.081	0.000	0.389
	Top	0.006	0.000	0.258	0.221	0.000	0.485
	Bottom	0.000	0.049	0.012	0.008	0.000	0.069
	Right	0.092	0.051	0.024	0.001	0.000	0.168
	Left	0.746	0.632	0.000	0.188	0.000	0.934*

Table E-10
Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TxBF and WPT

Sim Tx	Configuration	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.025	0.031	0.071	0.081	0.000	0.208
	Top	0.009	0.000	0.258	0.221	0.000	0.488
	Bottom	0.002	0.024	0.012	0.008	0.000	0.046
	Right	0.023	0.021	0.024	0.001	0.000	0.069
	Left	0.296	0.237	0.000	0.188	0.000	0.721

Table E-11
Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TxBF and WPT

Sim Tx	Configuration	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.139	0.060	0.071	0.081	0.000	0.291
	Top	0.006	0.524	0.258	0.221	0.000	0.751
	Bottom	0.000	0.006	0.012	0.008	0.000	0.020
	Right	0.092	0.088	0.024	0.001	0.000	0.181
	Left	0.746	0.000	0.000	0.188	0.000	0.934

Table E-12
Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TxBF and WPT

Sim Tx	Configuration	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.025	0.033	0.071	0.081	0.000	0.177
	Top	0.009	0.344	0.258	0.221	0.000	0.574
	Bottom	0.002	0.003	0.012	0.008	0.000	0.022
	Right	0.023	0.010	0.024	0.001	0.000	0.048
	Left	0.296	0.000	0.000	0.188	0.000	0.484

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Table E-13
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.139	0.098	0.081	0.000	0.414
	Top	0.336	0.006	0.000	0.221	0.000	0.563
	Bottom	0.014	0.000	0.049	0.008	0.000	0.071
	Right	0.028	0.092	0.051	0.001	0.000	0.172
	Left	0.002	0.746	0.632	0.188	0.000	0.936*

Table E-14
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.025	0.031	0.081	0.000	0.233
	Top	0.336	0.009	0.000	0.221	0.000	0.566
	Bottom	0.014	0.002	0.024	0.008	0.000	0.048
	Right	0.028	0.023	0.021	0.001	0.000	0.073
	Left	0.002	0.296	0.237	0.188	0.000	0.723

Table E-15
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5T ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.060	0.139	0.081	0.000	0.316
	Top	0.336	0.524	0.006	0.221	0.000	0.751
	Bottom	0.014	0.006	0.000	0.008	0.000	0.022
	Right	0.028	0.088	0.092	0.001	0.000	0.181
	Left	0.002	0.000	0.746	0.188	0.000	0.936

Table E-16
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5T ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.033	0.025	0.081	0.000	0.202
	Top	0.336	0.344	0.009	0.221	0.000	0.574
	Bottom	0.014	0.003	0.002	0.008	0.000	0.024
	Right	0.028	0.010	0.023	0.001	0.000	0.052
	Left	0.002	0.000	0.296	0.188	0.000	0.486

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Table E-17
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.139	0.098	0.071	0.000	0.416
	Top	0.259	0.006	0.000	0.258	0.000	0.523
	Bottom	0.010	0.000	0.049	0.012	0.000	0.071
	Right	0.007	0.092	0.051	0.024	0.000	0.174
	Left	0.213	0.746	0.632	0.000	0.000	0.959*

Table E-18
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.025	0.031	0.071	0.000	0.235
	Top	0.259	0.009	0.000	0.258	0.000	0.526
	Bottom	0.010	0.002	0.024	0.012	0.000	0.048
	Right	0.007	0.023	0.021	0.024	0.000	0.075
	Left	0.213	0.296	0.237	0.000	0.000	0.746

Table E-19
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.139	0.060	0.071	0.000	0.318
	Top	0.259	0.006	0.524	0.258	0.000	0.789
	Bottom	0.010	0.000	0.006	0.012	0.000	0.022
	Right	0.007	0.092	0.088	0.024	0.000	0.187
	Left	0.213	0.746	0.000	0.000	0.000	0.959

Table E-20
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.025	0.033	0.071	0.000	0.204
	Top	0.259	0.009	0.344	0.258	0.000	0.612
	Bottom	0.010	0.002	0.003	0.012	0.000	0.024
	Right	0.007	0.023	0.010	0.024	0.000	0.054
	Left	0.213	0.296	0.000	0.000	0.000	0.509

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Table E-21
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.081	0.104	0.056	0.000	0.337
	Top	0.336	0.221	0.004	0.000	0.000	0.561
	Bottom	0.014	0.008	0.001	0.031	0.000	0.054
	Right	0.028	0.001	0.033	0.043	0.000	0.105
	Left	0.002	0.188	0.672	0.583	0.000	0.862*

Table E-22
Simultaneous Transmission Scenario with 2.4 GHz WIFI, NB UNII TxBF, 2.4 GHz Bluetooth and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB UNII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.071	0.081	0.104	0.000	0.281
	Top	0.336	0.447	0.221	0.004	0.000	0.672
	Bottom	0.014	0.013	0.008	0.001	0.000	0.023
	Right	0.028	0.030	0.001	0.033	0.000	0.064
	Left	0.002	0.000	0.188	0.672	0.000	0.862

Table E-23
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF8 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.071	0.104	0.056	0.000	0.339
	Top	0.259	0.258	0.004	0.000	0.000	0.521
	Bottom	0.010	0.012	0.001	0.031	0.000	0.054
	Right	0.007	0.024	0.033	0.043	0.000	0.107
	Left	0.213	0.000	0.672	0.583	0.000	0.885*

Table E-24
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF8 ER	NB UNII Ant WF8 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.071	0.071	0.104	0.000	0.283
	Top	0.259	0.258	0.447	0.004	0.000	0.710
	Bottom	0.010	0.012	0.013	0.001	0.000	0.024
	Right	0.007	0.024	0.030	0.033	0.000	0.070
	Left	0.213	0.000	0.000	0.672	0.000	0.885

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Table E-25
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	802.15.4 Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.139	0.098	0.086	0.000	0.419
	Top	0.336	0.006	0.000	0.219	0.000	0.561
	Bottom	0.014	0.000	0.049	0.007	0.000	0.070
	Right	0.028	0.092	0.051	0.002	0.000	0.173
	Left	0.002	0.746	0.632	0.165	0.000	0.913*

Table E-26
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	802.15.4 Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.025	0.031	0.086	0.000	0.238
	Top	0.336	0.009	0.000	0.219	0.000	0.564
	Bottom	0.014	0.002	0.024	0.007	0.000	0.047
	Right	0.028	0.023	0.021	0.002	0.000	0.074
	Left	0.002	0.296	0.237	0.165	0.000	0.700

Table E-27
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5T ER	802.15.4 Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.060	0.139	0.086	0.000	0.321
	Top	0.336	0.524	0.006	0.219	0.000	0.749
	Bottom	0.014	0.006	0.000	0.007	0.000	0.021
	Right	0.028	0.088	0.092	0.002	0.000	0.182
	Left	0.002	0.000	0.746	0.165	0.000	0.913

Table E-28
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5T ER	802.15.4 Ant WF7 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.033	0.025	0.086	0.000	0.207
	Top	0.336	0.344	0.009	0.219	0.000	0.572
	Bottom	0.014	0.003	0.002	0.007	0.000	0.023
	Right	0.028	0.010	0.023	0.002	0.000	0.053
	Left	0.002	0.000	0.296	0.165	0.000	0.463

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Table E-29
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF5B ER	802.15.4 Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.139	0.098	0.078	0.000	0.423
	Top	0.259	0.006	0.000	0.262	0.000	0.527
	Bottom	0.010	0.000	0.049	0.009	0.000	0.068
	Right	0.007	0.092	0.051	0.021	0.000	0.171
	Left	0.213	0.746	0.632	0.000	0.000	0.959*

Table E-30
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF5B ER	802.15.4 Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.025	0.031	0.078	0.000	0.242
	Top	0.259	0.009	0.000	0.262	0.000	0.530
	Bottom	0.010	0.002	0.024	0.009	0.000	0.045
	Right	0.007	0.023	0.021	0.021	0.000	0.072
	Left	0.213	0.296	0.237	0.000	0.000	0.746

Table E-31
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5T ER	5 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.139	0.060	0.078	0.000	0.325
	Top	0.259	0.006	0.524	0.262	0.000	0.789
	Bottom	0.010	0.000	0.006	0.009	0.000	0.019
	Right	0.007	0.092	0.088	0.021	0.000	0.187
	Left	0.213	0.746	0.000	0.000	0.000	0.959

Table E-32
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5T ER	6 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.025	0.033	0.078	0.000	0.211
	Top	0.259	0.009	0.344	0.262	0.000	0.612
	Bottom	0.010	0.002	0.003	0.009	0.000	0.021
	Right	0.007	0.023	0.010	0.021	0.000	0.051
	Left	0.213	0.296	0.000	0.000	0.000	0.509

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Table E-33
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	802.15.4 Ant WF7 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.086	0.104	0.056	0.000	0.342
	Top	0.336	0.219	0.004	0.000	0.000	0.559
	Bottom	0.014	0.007	0.001	0.031	0.000	0.053
	Right	0.028	0.002	0.033	0.043	0.000	0.106
	Left	0.002	0.165	0.672	0.583	0.000	0.839*

Table E-34
Simultaneous Transmission Scenario with 2.4 GHz WIFI, NB UNII TxBF, 802.15.4 and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB UNII Ant WF8 ER	802.15.4 Ant WF7 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.096	0.071	0.086	0.104	0.000	0.286
	Top	0.336	0.447	0.219	0.004	0.000	0.670
	Bottom	0.014	0.013	0.007	0.001	0.000	0.022
	Right	0.028	0.030	0.002	0.033	0.000	0.065
	Left	0.002	0.000	0.165	0.672	0.000	0.839

Table E-35
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	802.15.4 Ant WF8 ER	NB UNII Ant WF5T ER	NB UNII Ant WF5B ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.078	0.104	0.056	0.000	0.346
	Top	0.259	0.262	0.004	0.000	0.000	0.525
	Bottom	0.010	0.009	0.001	0.031	0.000	0.051
	Right	0.007	0.021	0.033	0.043	0.000	0.104
	Left	0.213	0.000	0.672	0.583	0.000	0.885*

Table E-36
Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB UNII TxBF and WPT

Sim Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	802.15.4 Ant WF8 ER	NB UNII Ant WF8 ER	NB UNII Ant WF5T ER	WPT ER	ΣER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.108	0.078	0.071	0.104	0.000	0.290
	Top	0.259	0.262	0.447	0.004	0.000	0.710
	Bottom	0.010	0.009	0.013	0.001	0.000	0.024
	Right	0.007	0.021	0.030	0.033	0.000	0.070
	Left	0.213	0.000	0.000	0.672	0.000	0.885

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E.5 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

E.5.1 Left Edge Spatial Separation Analysis

Figure E-22
Antenna WF5T and WF5B

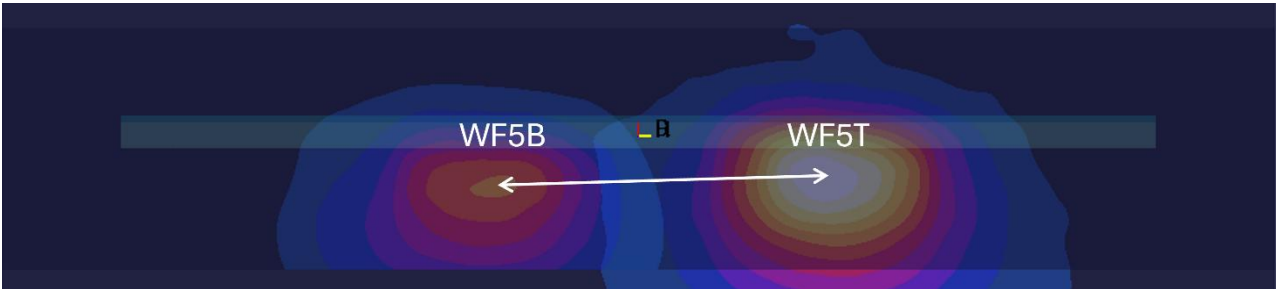


Figure E-25
Antenna WF5B and WF8

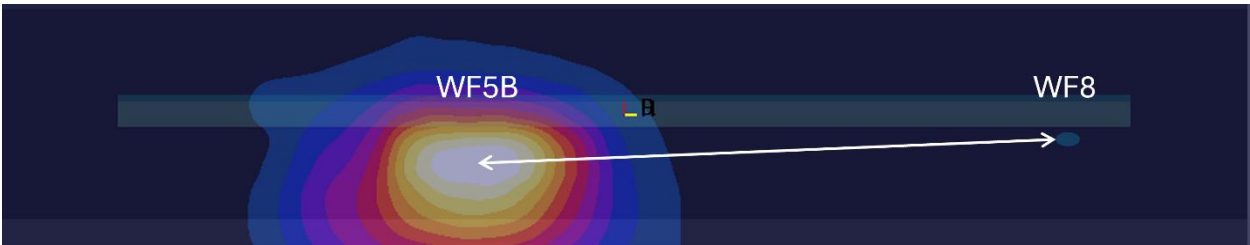
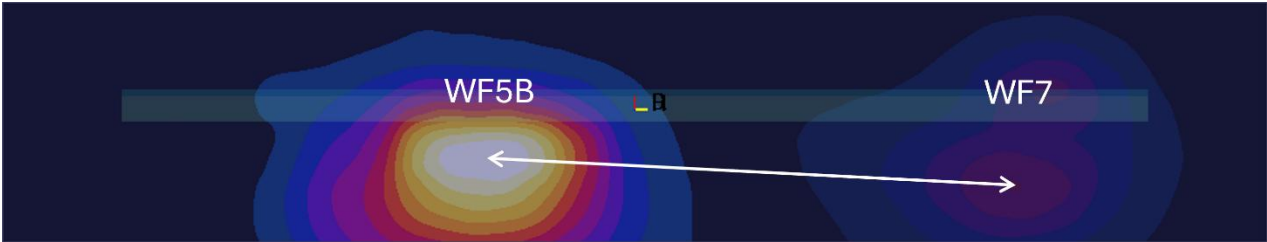


Figure E-26
Antenna WF5B and WF7



E.6 Simultaneous Transmission Conclusion

The above numerical summed TER results for all the worst-case simultaneous transmission conditions were below the TER limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01.

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