

APPENDIX E: MULTI-TX AND ANTENNA SAR CONSIDERATIONS

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 with the licensed transmitter.

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 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.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR (“-”).

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

This device is enabled with Samsung S.LSI TAS (Time Average SAR) with pre-defined sub6 antenna groups (AG0 and AG1). Simultaneous transmission analysis is performed per antenna groups. Analysis demonstrates:

1. The mutually exclusive operation of AG0 and AG1
2. The compliance between AG0 and BT/WLAN/NFC/WPT, and between AG1 and BT/WLAN/NFC/WPT.

When operating in the same antenna group, Samsung S.LSI TAS algorithm in WWAN directly adds the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. S.LSI algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.

E.3 Sub6 Antenna Groups

The Samsung S.LSI TAS operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG.

This is accomplished by demonstrating the conditions below for all exposure scenarios:

1. Each antenna combination from both sub6 AGs sums less than the manufacture’s design target.
2. If the sum for antenna combination is greater than SAR design target, then that combination meets SPLSR criteria (Section 4.3.2(c) in FCC KDB 447498 D04).

This device supports two sub6 AG: AG0 and AG1, with AG0 having 4 antennas (A, B, C, D) and AG1 having 3 antennas (E, F, H), and WIFI/BT/NFC external radio antennas. Demonstrating that AG0 is fully uncorrelated to AG1 through the following criteria:

- A. For each antenna, obtain the highest reported SAR for each of the supported technologies and bands along with the peak SAR locations. Using these values, demonstrate for a given position in an exposure condition that every antenna from one sub6 AG meets SPLSR criteria

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with every antenna in another sub6 AG for all frequency bands. This criterion must be demonstrated for all antenna pair combinations according to simultaneous transmission scenarios.

The following formula is used to calculate the SPLSR between antenna pair for each exposure configuration:

$$SPLSR = \frac{(SAR_i + SAR_j)^{1.5}}{\sqrt{(x_i - x_j)^2 + (y_i - y)^2 + (z_i - z_j)^2}}$$

Where i and j are bands/modes that can transmit simultaneously across AG0 and AG1, with x/y/z coordinates.

- B. If SPLSR is > 0.04 for 1g or 0.1 for 10g, Volume Scan is done for the pair. If Volume Scan is passing FCC limit, the two antennas are considered fully uncoupled. If not, the two antennas would be considered as fully coupled.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR (“-“). For top edge, AG0 testing was excluded and for bottom edge AG1 testing was excluded, therefore, no spatial analysis required for those edges. For left and right edges, not every band was tested, therefore, not every combination between AG0 and AG1 was evaluated.

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

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E.3.1 Head Spatial Analysis

Table 1
Right Cheek SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord	Z-Coord
AG0	A	GSM 850	0.284	57.0	-263.5	-170.2
AG1	E	GSM 850	0.579	0.7	-305.8	-166.9
AG0	A	GSM 1900	0.047	62.5	-301.7	-171.4
AG0	A	UMTS 850	0.214	59.8	-263.9	-170.1
AG1	E	UMTS 850	0.552	-0.6	-312.2	-167.1
AG0	A	UMTS 1750	0.098	65.4	-302.0	-170.6
AG1	F	UMTS 1750	0.599	13.0	-322.0	-169.1
AG0	A	UMTS 1900	0.117	64.5	-298.9	-170.8
AG0	A	LTE Band 12	0.172	60.7	-266.1	-169.7
AG1	E	LTE Band 12	0.400	0.2	-311.3	-167.2
AG0	A	LTE Band 13	0.188	61.2	-266.3	-170.0
AG1	E	LTE Band 13	0.695	0.2	-311.3	-167.2
AG0	A	LTE Band 26	0.219	59.8	-263.9	-169.7
AG1	E	LTE Band 26	0.604	-2.0	-310.5	-166.8
AG0	A	LTE Band 66	0.134	67.2	-298.8	-168.4
AG1	F	LTE Band 66	0.660	9.9	-324.5	-168.8
AG0	A	LTE Band 25	0.104	62.6	-300.3	-171.4
AG1	F	LTE Band 25	0.729	11.4	-327.7	-171.0
AG0	B	LTE Band 41	0.046	56.8	-278.0	-172.7
AG1	F	LTE Band 41	0.419	13.6	-327.2	-169.1
AG0	A	NR Band n12	0.148	58.9	-266.2	-170.0
AG1	E	NR Band n12	0.552	4.6	-316.3	-168.1
AG0	A	NR Band n26	0.232	58.4	-265.0	-170.1
AG1	E	NR Band n26	0.504	-0.7	-310.4	-167.0
AG0	A	NR Band n66	0.150	63.3	-304.8	-170.9
AG1	F	NR Band n66	0.651	10.7	-326.8	-168.8
AG0	A	NR Band n25	0.130	64.1	-302.2	-170.8
AG1	F	NR Band n25	0.686	10.5	-326.3	-170.3
AG0	B	NR Band n41	0.002	61.8	-241.0	-166.3
AG0	D	NR Band n41	0.000	62.4	-362.8	-159.6
AG1	E	NR Band n41	0.265	5.9	-296.3	-166.9
AG1	F	NR Band n41	0.523	14.7	-325.6	-169.2
AG0	C	NR Band n77	0.013	58.6	-309.9	-169.7
AG0	D	NR Band n77	0.000	6.7	-330.4	-168.3
AG1	F	NR Band n77	0.702	15.0	-324.8	-169.3
AG1	H	NR Band n77	0.651	55.8	-311.0	-170.1

Table 2
Right Cheek SPLSR

AG0 Band/Antenna	AG1 Band/Antenna	AG0 SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AG0: Ant A_GSM 850	AG1: Ant F_LTE Band 25	0.284	0.729	1.013	78.75	0.01
AG0: Ant A_GSM 850	AG1: Ant F_NR Band n77	0.284	0.702	0.986	74.31	N/A

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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Table 3
Right Tilt SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord	Z-Coord
AG0	A	GSM 850	0.140	36.4	-283.1	-170.8
AG1	E	GSM 850	0.519	-0.8	-308.8	-166.9
AG0	A	GSM 1900	0.041	24.1	-311.7	-171.9
AG0	A	UMTS 850	0.112	37.3	-290.6	-171.2
AG1	E	UMTS 850	0.507	-0.7	-310.4	-167.0
AG0	A	UMTS 1750	0.072	30.4	-323.9	-171.9
AG1	F	UMTS 1750	0.885	11.9	-323.5	-169.0
AG0	A	UMTS 1900	0.081	28.5	-324.4	-171.8
AG0	A	LTE Band 12	0.120	37.4	-292.0	-171.2
AG1	E	LTE Band 12	0.329	-1.0	-309.6	-166.9
AG0	A	LTE Band 13	0.133	43.2	-283.4	-171.3
AG1	E	LTE Band 13	0.593	-1.0	-309.6	-166.9
AG0	A	LTE Band 26	0.130	38.8	-291.1	-171.4
AG1	E	LTE Band 26	0.510	-3.9	-307.1	-166.2
AG0	A	LTE Band 66	0.083	25.2	-324.8	-170.0
AG1	F	LTE Band 66	0.713	7.6	-320.4	-168.5
AG0	A	LTE Band 25	0.073	34.6	-318.6	-170.6
AG1	F	LTE Band 25	0.794	9.0	-325.2	-170.9
AG0	B	LTE Band 41	0.048	18.9	-305.7	-169.5
AG1	F	LTE Band 41	0.439	13.6	-327.2	-169.1
AG0	A	NR Band n12	0.095	34.1	-299.9	-171.0
AG1	E	NR Band n12	0.474	3.0	-311.7	-167.6
AG0	A	NR Band n26	0.127	36.8	-291.4	-171.1
AG1	E	NR Band n26	0.450	-0.8	-308.8	-166.9
AG0	A	NR Band n66	0.072	33.8	-321.3	-172.3
AG1	F	NR Band n66	0.717	8.6	-323.3	-168.7
AG0	A	NR Band n25	0.090	30.9	-322.6	-171.9
AG1	F	NR Band n25	0.680	9.2	-324.7	-170.2
AG0	B	NR Band n41	0.000	11.4	-291.0	-167.4
AG0	D	NR Band n41	0.000	12.5	-332.1	-168.8
AG1	E	NR Band n41	0.257	4.8	-296.4	-166.7
AG1	F	NR Band n41	0.589	12.9	-326.8	-169.0
AG0	C	NR Band n77	0.028	28.3	-325.9	-170.1
AG0	D	NR Band n77	0.000	-14.1	-344.3	-165.1
AG1	F	NR Band n77	0.728	14.0	-324.9	-169.2
AG1	H	NR Band n77	0.040	54.0	-310.5	-170.5

Table 4
Right Tilt SPLSR

AG0 Band/Antenna	AG1 Band/Antenna	AG0 SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AG0: Ant A_GSM 850	AG1: Ant F_UMTS 1750	0.14	0.885	1.025	47.28	0.02
AG0: Ant A_LTE Band 12	AG1: Ant F_UMTS 1750	0.12	0.885	1.005	40.59	0.02
AG0: Ant A_LTE Band 13	AG1: Ant F_UMTS 1750	0.133	0.885	1.018	50.92	0.02
AG0: Ant A_LTE Band 26	AG1: Ant F_UMTS 1750	0.13	0.885	1.015	42.18	0.02
AG0: Ant A_NR Band n26	AG1: Ant F_UMTS 1750	0.127	0.885	1.012	40.68	0.03
AG0: Ant A_UMTS 850	AG1: Ant F_UMTS 1750	0.112	0.885	0.997	41.62	N/A

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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Table 5
Left Cheek SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AG0	A	GSM 850	0.188
AG1	E	GSM 850	0.719
AG0	A	GSM 1900	0.062
AG0	A	UMTS 850	0.182
AG1	E	UMTS 850	0.613
AG0	A	UMTS 1750	0.208
AG1	F	UMTS 1750	0.383
AG0	A	UMTS 1900	0.210
AG0	A	LTE Band 12	0.148
AG1	E	LTE Band 12	0.577
AG0	A	LTE Band 13	0.209
AG1	E	LTE Band 13	0.714
AG0	A	LTE Band 26	0.164
AG1	E	LTE Band 26	0.640
AG0	A	LTE Band 66	0.222
AG1	F	LTE Band 66	0.474
AG0	A	LTE Band 25	0.205
AG1	F	LTE Band 25	0.436
AG0	B	LTE Band 41	0.082
AG1	F	LTE Band 41	0.249
AG0	A	NR Band n12	0.137
AG1	E	NR Band n12	0.635
AG0	A	NR Band n26	0.178
AG1	E	NR Band n26	0.712
AG0	A	NR Band n66	0.236
AG1	F	NR Band n66	0.355
AG0	A	NR Band n25	0.244
AG1	F	NR Band n25	0.423
AG0	B	NR Band n41	0.007
AG0	D	NR Band n41	0.000
AG1	E	NR Band n41	0.533
AG1	F	NR Band n41	0.245
AG0	C	NR Band n77	0.017
AG0	D	NR Band n77	0.003
AG1	F	NR Band n77	0.363
AG1	H	NR Band n77	0.451
AGa	G	2.4 GHz WIFI	0.114
AGa	I	2.4 GHz WIFI	0.445
AGa	MIMO	2.4 GHz WIFI	0.447

Table 6
Left Cheek Sum

Antenna Pair		Standalone Values		Standalone Sum
		Reported SAR	Reported SAR	
Ant "a"	Ant "b"	a	b	a+b
AG0	AG1	0.244	0.719	0.963

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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Table 7
Left Tilt SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AG0	A	GSM 850	0.144
AG1	E	GSM 850	0.652
AG0	A	GSM 1900	0.031
AG0	A	UMTS 850	0.099
AG1	E	UMTS 850	0.593
AG0	A	UMTS 1750	0.052
AG1	F	UMTS 1750	0.581
AG0	A	UMTS 1900	0.063
AG0	A	LTE Band 12	0.086
AG1	E	LTE Band 12	0.438
AG0	A	LTE Band 13	0.125
AG1	E	LTE Band 13	0.654
AG0	A	LTE Band 26	0.091
AG1	E	LTE Band 26	0.641
AG0	A	LTE Band 66	0.044
AG1	F	LTE Band 66	0.618
AG0	A	LTE Band 25	0.077
AG1	F	LTE Band 25	0.579
AG0	B	LTE Band 41	0.059
AG1	F	LTE Band 41	0.370
AG0	A	NR Band n12	0.082
AG1	E	NR Band n12	0.530
AG0	A	NR Band n26	0.113
AG1	E	NR Band n26	0.566
AG0	A	NR Band n66	0.082
AG1	F	NR Band n66	0.465
AG0	A	NR Band n25	0.075
AG1	F	NR Band n25	0.473
AG0	B	NR Band n41	0.000
AG0	D	NR Band n41	0.000
AG1	E	NR Band n41	0.499
AG1	F	NR Band n41	0.258
AG0	C	NR Band n77	0.006
AG0	D	NR Band n77	0.001
AG1	F	NR Band n77	0.382
AG1	H	NR Band n77	0.031

Table 8
Left Tilt Sum

Antenna Pair		Standalone Values		Standalone Sum
		Reported SAR	Reported SAR	
Ant "a"	Ant "b"	a	b	a+b
AG0	AG1	0.144	0.654	0.798

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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E.3.2 Body-worn/Hotspot Spatial Analysis

Table 9
Body-worn/Hotspot Back SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord
AG0	A	GSM 850	0.887	-45.5	67.0
AG1	E	GSM 850	0.582	-9.8	-81.1
AG0	A	GSM 1900	0.546	-40.2	80.2
AG0	A	UMTS 850	1.159	-42.0	72.0
AG1	E	UMTS 850	0.592	-19.4	-76.3
AG0	A	UMTS 1750	0.736	-28.1	79.7
AG1	F	UMTS 1750	0.601	-43.6	-71.1
AG0	A	UMTS 1900	0.545	-31.2	82.4
AG0	A	LTE Band 12	0.840	-41.0	61.8
AG1	E	LTE Band 12	0.655	-22.1	-79.0
AG0	A	LTE Band 13	0.704	-41.1	59.3
AG1	E	LTE Band 13	0.376	-18.9	-80.6
AG0	A	LTE Band 26	1.103	-43.2	63.0
AG1	E	LTE Band 26	0.588	-24.4	-76.1
AG0	A	LTE Band 66	0.531	-27.7	78.6
AG1	F	LTE Band 66	0.577	-43.6	-73.0
AG0	A	LTE Band 25	0.845	-40.1	79.2
AG1	F	LTE Band 25	0.652	-40.0	-69.9
AG0	B	LTE Band 41	1.180	-49.7	76.1
AG1	F	LTE Band 41	0.555	-28.0	-71.5
AG0	A	NR Band n12	0.757	-40.5	58.0
AG1	E	NR Band n12	0.633	-20.9	-79.0
AG0	A	NR Band n26	1.020	-43.7	61.8
AG1	E	NR Band n26	0.826	-22.1	-79.0
AG0	A	NR Band n66	0.766	-26.1	76.3
AG1	F	NR Band n66	0.448	-41.7	-77.6
AG0	A	NR Band n25	0.925	-26.4	70.6
AG1	F	NR Band n25	0.556	-40.9	-75.7
AG0	B	NR Band n41	0.829	-47.4	74.2
AG0	D	NR Band n41	0.995	-16.8	66.6
AG1	E	NR Band n41	0.700	-9.0	-66.1
AG1	F	NR Band n41	0.789	-44.7	-75.0
AG0	C	NR Band n77	0.412	-64.6	53.4
AG0	D	NR Band n77	1.115	-9.9	63.1
AG1	F	NR Band n77	0.809	-45.5	-67.0
AG1	H	NR Band n77	0.590	-54.2	-25.5

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Table 10
Body-worn/Hotspot Back Side SPLSR

AGO Band/Antenna	AG1 Band/Antenna	AGO SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AGO: Ant A, GSM 1900	AG1: Ant E, GSM 850	0.546	0.582	1.128	164.14	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, LTE Band 12	0.546	0.655	1.206	160.23	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, LTE Band 26	0.546	0.588	1.134	157.1	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, NR Band n12	0.546	0.633	1.179	160.37	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, NR Band n26	0.546	0.826	1.372	160.23	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, NR Band n41	0.546	0.7	1.246	149.59	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, UMTS 850	0.546	0.592	1.138	157.88	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, LTE Band 25	0.546	0.652	1.198	150.1	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, LTE Band 41	0.546	0.555	1.101	152.19	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, LTE Band 66	0.546	0.577	1.123	153.24	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n25	0.546	0.556	1.102	155.9	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n41	0.546	0.789	1.335	155.27	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n77	0.546	0.809	1.359	147.3	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, UMTS 1750	0.546	0.601	1.147	151.34	0.01
AGO: Ant A, GSM 1900	AG1: Ant H, NR Band n77	0.546	0.59	1.136	106.62	0.01
AGO: Ant A, GSM 850	AG1: Ant E, GSM 850	0.887	0.582	1.469	152.34	0.01
AGO: Ant A, GSM 850	AG1: Ant E, LTE Band 12	0.887	0.655	1.547	147.86	0.01
AGO: Ant A, GSM 850	AG1: Ant E, LTE Band 13	0.887	0.376	1.263	149.98	0.01
AGO: Ant A, GSM 850	AG1: Ant E, LTE Band 26	0.887	0.588	1.475	144.65	0.01
AGO: Ant A, GSM 850	AG1: Ant E, NR Band n12	0.887	0.633	1.52	148.06	0.01
AGO: Ant A, GSM 850	AG1: Ant E, NR Band n26	0.887	0.826	1.713	147.86	0.02
AGO: Ant A, GSM 850	AG1: Ant E, NR Band n41	0.887	0.7	1.587	138.01	0.01
AGO: Ant A, GSM 850	AG1: Ant E, UMTS 850	0.887	0.592	1.479	145.66	0.01
AGO: Ant A, GSM 850	AG1: Ant F, LTE Band 25	0.887	0.652	1.539	137.01	0.01
AGO: Ant A, GSM 850	AG1: Ant F, LTE Band 41	0.887	0.555	1.442	139.6	0.01
AGO: Ant A, GSM 850	AG1: Ant F, LTE Band 66	0.887	0.577	1.464	140.01	0.01
AGO: Ant A, GSM 850	AG1: Ant F, NR Band n25	0.887	0.556	1.443	142.77	0.01
AGO: Ant A, GSM 850	AG1: Ant F, NR Band n41	0.887	0.789	1.676	142	0.02
AGO: Ant A, GSM 850	AG1: Ant F, NR Band n66	0.887	0.448	1.335	144.65	0.01
AGO: Ant A, GSM 850	AG1: Ant F, NR Band n77	0.887	0.809	1.7	134	0.02
AGO: Ant A, GSM 850	AG1: Ant F, UMTS 1750	0.887	0.601	1.488	138.11	0.01
AGO: Ant A, GSM 850	AG1: Ant H, NR Band n77	0.887	0.59	1.477	92.91	0.02
AGO: Ant A, LTE Band 12	AG1: Ant E, GSM 850	0.84	0.582	1.422	146.27	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, LTE Band 12	0.84	0.655	1.5	142.06	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, LTE Band 13	0.84	0.376	1.216	144.1	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, LTE Band 26	0.84	0.588	1.428	138.9	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, NR Band n12	0.84	0.633	1.473	142.23	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, NR Band n26	0.84	0.826	1.666	142.06	0.02
AGO: Ant A, LTE Band 12	AG1: Ant E, NR Band n41	0.84	0.7	1.54	131.84	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, UMTS 850	0.84	0.592	1.432	139.78	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, LTE Band 25	0.84	0.652	1.492	131.7	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, LTE Band 41	0.84	0.555	1.395	133.93	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, LTE Band 66	0.84	0.577	1.417	134.83	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n25	0.84	0.556	1.396	137.5	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n41	0.84	0.789	1.629	136.85	0.02
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n66	0.84	0.448	1.288	139.4	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n77	0.84	0.809	1.653	128.88	0.02
AGO: Ant A, LTE Band 12	AG1: Ant F, UMTS 1750	0.84	0.601	1.441	132.93	0.01
AGO: Ant A, LTE Band 12	AG1: Ant H, NR Band n77	0.84	0.59	1.43	88.29	0.02
AGO: Ant A, LTE Band 13	AG1: Ant E, GSM 850	0.704	0.582	1.286	143.85	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, LTE Band 12	0.704	0.655	1.364	139.6	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, LTE Band 13	0.704	0.376	1.08	141.65	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, LTE Band 26	0.704	0.588	1.292	136.43	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, NR Band n12	0.704	0.633	1.337	139.77	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, NR Band n26	0.704	0.826	1.53	139.6	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, NR Band n41	0.704	0.7	1.404	129.44	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, UMTS 850	0.704	0.592	1.296	137.33	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, LTE Band 25	0.704	0.652	1.356	129.2	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, LTE Band 41	0.704	0.555	1.259	131.45	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, LTE Band 66	0.704	0.577	1.281	132.32	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, NR Band n25	0.704	0.556	1.26	135	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, NR Band n41	0.704	0.789	1.493	134.35	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, NR Band n66	0.704	0.448	1.152	136.9	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, NR Band n77	0.704	0.809	1.517	126.38	0.01
AGO: Ant A, LTE Band 13	AG1: Ant F, UMTS 1750	0.704	0.601	1.305	130.42	0.01
AGO: Ant A, LTE Band 13	AG1: Ant H, NR Band n77	0.704	0.59	1.294	85.81	0.02
AGO: Ant A, LTE Band 25	AG1: Ant E, GSM 850	0.845	0.582	1.427	163.14	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 12	0.845	0.655	1.505	159.22	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 13	0.845	0.376	1.221	161.2	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 26	0.845	0.588	1.433	156.09	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n12	0.845	0.633	1.478	159.36	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n26	0.845	0.826	1.671	159.22	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n41	0.845	0.7	1.545	148.59	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, UMTS 850	0.845	0.592	1.437	156.87	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 25	0.845	0.652	1.497	149.1	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 41	0.845	0.555	1.4	151.18	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 66	0.845	0.577	1.422	152.24	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n25	0.845	0.556	1.401	154.9	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n41	0.845	0.789	1.634	154.27	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n66	0.845	0.448	1.293	156.81	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n77	0.845	0.809	1.658	146.3	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, UMTS 1750	0.845	0.601	1.446	150.34	0.01
AGO: Ant A, LTE Band 25	AG1: Ant H, NR Band n77	0.845	0.59	1.435	105.65	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, GSM 850	1.103	0.582	1.685	147.92	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, LTE Band 12	1.103	0.655	1.763	143.56	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, LTE Band 13	1.103	0.376	1.479	145.64	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, LTE Band 26	1.103	0.588	1.691	140.36	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, NR Band n12	1.103	0.633	1.736	143.74	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, NR Band n26	1.103	0.826	1.929	143.56	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, NR Band n41	1.103	0.7	1.803	133.55	0.02
AGO: Ant A, LTE Band 26	AG1: Ant E, UMTS 850	1.103	0.592	1.695	141.32	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, LTE Band 25	1.103	0.652	1.755	132.94	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, LTE Band 41	1.103	0.555	1.658	135.36	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, LTE Band 66	1.103	0.577	1.68	136	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n25	1.103	0.556	1.659	138.72	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n41	1.103	0.789	1.892	138.01	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n66	1.103	0.448	1.551	140.61	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n77	1.103	0.809	1.916	130.02	0.02
AGO: Ant A, LTE Band 26	AG1: Ant F, UMTS 1750	1.103	0.601	1.704	134.1	0.02

Table 11
Body-worn/Hotspot Back Side SPLSR (part 2)

AGO Band/Antenna	AG1 Band/Antenna	AGO SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AGO: Ant A, LTE Band 26	AG1: Ant H, NR Band n77	1.103	0.59	1.693	89.18	0.02
AGO: Ant A, LTE Band 66	AG1: Ant E, GSM 850	0.531	0.582	1.113	160.7	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, LTE Band 12	0.531	0.655	1.191	157.7	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, LTE Band 26	0.531	0.588	1.119	154.74	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n12	0.531	0.633	1.164	157.75	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n26	0.531	0.826	1.357	157.7	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n41	0.531	0.7	1.231	145.9	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, UMTS 850	0.531	0.592	1.123	155.12	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 25	0.531	0.652	1.183	149.01	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 41	0.531	0.555	1.086	150.1	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 66	0.531	0.577	1.108	152.43	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n25	0.531	0.556	1.087	154.86	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n41	0.531	0.789	1.32	154.54	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n77	0.531	0.809	1.344	146.68	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, UMTS 1750	0.531	0.601	1.132	150.54	0.01
AGO: Ant A, LTE Band 66	AG1: Ant H, NR Band n77	0.531	0.59	1.121	107.42	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, GSM 850	0.757	0.582	1.339	142.45	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, LTE Band 12	0.757	0.655	1.417	138.23	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, LTE Band 13	0.757	0.376	1.133	140.27	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, LTE Band 26	0.757	0.588	1.345	135.06	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, NR Band n12	0.757	0.633	1.39	138.39	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, NR Band n26	0.757	0.826	1.583	138.23	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, NR Band n41	0.757	0.7	1.457	128.04	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, UMTS 850	0.757	0.592	1.349	135.95	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, LTE Band 25	0.757	0.652	1.409	127.9	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, LTE Band 41	0.757	0.555	1.312	130.1	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, LTE Band 66	0.757	0.577	1.334	131.04	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, NR Band n25	0.757	0.556	1.313	133.7	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, NR Band n41	0.757	0.789	1.546	133.07	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, NR Band n66	0.757	0.448	1.205	135.61	0.01
AGO: Ant A, NR Band n12	AG1: Ant F, NR Band n77	0.757	0.809	1.57	125.1	0.02
AGO: Ant A, NR Band n12	AG1: Ant F, UMTS 1750	0.757	0.601	1.358	129.14	0.01
AGO: Ant A, NR Band n12	AG1: Ant H, NR Band n77	0.757	0.59	1.347	84.62	0.02
AGO: Ant A, NR Band n25	AG1: Ant E, GSM 850	0.925	0.582	1.507	152.61	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 12	0.925	0.655	1.585	149.66	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 13	0.925	0.376	1.301	151.39	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 26	0.925	0.588	1.513	146.71	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n12	0.925	0.633	1.558	149.7	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n26	0.925	0.826	1.751	149.66	0.02
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n41	0.925	0.7	1.625	137.8	0.02
AGO: Ant A, NR Band n25	AG1: Ant E, UMTS 850	0.925	0.592	1.517	147.07	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 25	0.925	0.652	1.577	141.16	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 41	0.925	0.555	1.48	142.11	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 66	0.925	0.577	1.502	144.63	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n25	0.925	0.556	1.481	147.02	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n41	0.925	0.789	1.714	146.75	0.02
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n66	0.925	0.448	1.373	148.99	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n77	0.925	0.809	1.738	138.92	0.02
AGO: Ant A, NR Band n25	AG1: Ant F, UMTS 1750	0.925	0.601	1.526	142.74	0.01
AGO: Ant A, NR Band n25	AG1: Ant H, NR Band n77	0.925	0.59	1.515	100.04	0.02
AGO: Ant A, NR Band n26	AG1: Ant E, GSM 850	1.02	0.582	1.602	146.87	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, LTE Band 12	1.02	0.655	1.68	142.45	0.02
AGO: Ant A, NR Band n26	AG1: Ant E, LTE Band 13	1.02	0.376	1.396	144.54	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, LTE Band 26	1.02	0.588	1.608	139.24	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n12	1.02	0.633	1.653	142.63	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n26	1.02	0.826	1.846	142.45	0.02
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n41	1.02	0.7	1.72	132.52	0.02
AGO: Ant A, NR Band n26	AG1: Ant E, UMTS 850	1.02	0.592	1.612	140.22	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 25	1.02	0.652	1.672	131.75	0.02
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 41	1.02	0.555	1.575	134.22	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 66	1.02	0.577	1.597	134.8	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n25	1.02	0.556	1.576	137.53	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n41	1.02	0.789	1.809	136.8	0.02
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n66	1.02	0.448	1.468	139.41	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n77	1.02	0.809	1.833	128.81	0.02
AGO: Ant A, NR Band n26	AG1: Ant F, UMTS 1750	1.02	0.601	1.621	132.9	0.02
AGO: Ant A, NR Band n26	AG1: Ant H, NR Band n77	1.02	0.59	1.61	87.93	0.02
AGO: Ant A, NR Band n66	AG1: Ant E, GSM 850	0.766	0.582	1.348	158.24	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 12	0.766	0.655	1.426	155.35	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 13	0.766	0.376	1.142	157.07	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 26	0.766	0.588	1.354	152.41	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n12	0.766	0.633	1.399	155.39	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n26	0.766	0.826	1.592	155.35	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n41	0.766	0.7	1.466	143.42	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, UMTS 850	0.766	0.592	1.358	152.75	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 25	0.766	0.652	1.418	146.86	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 41	0.766	0.555	1.321	147.81	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 66	0.766	0.577	1.343	150.32	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n25	0.766	0.556	1.322	152.72	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n41	0.766	0.789	1.555	152.44	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n66	0.766	0.448	1.214	154.69	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n77	0.766	0.809	1.579	144.61	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, UMTS 1750	0.766	0.601	1.367	148.44	0.01
AGO: Ant A, NR Band n66	AG1: Ant H, NR Band n77	0.766	0.59	1.356	105.61	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, GSM 850	0.736	0.582	1.318	161.84	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 12	0.736	0.655	1.396	158.81	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 13	0.736	0.376	1.112	160.56	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 26	0.736	0.588	1.324	155.84	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n12	0.736	0.633	1.369	158.86	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n26	0.736	0.826	1.562	158.81	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n41	0.736	0.7	1.436	147.05	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, UMTS 850	0.736	0.592	1.328	156.24	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 25	0.736	0.652	1.388	150.07	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 41	0.736	0.555	1.291	151.2	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 66	0.736	0.577	1.313	153.48	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n25	0.736	0.556	1.292	155.93	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n41	0.736	0.789	1.525	155.59	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n66	0.736	0.448	1.184	157.89	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n77	0.736	0.809	1.549	147.73	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, UMTS 1750	0.736	0.601	1.337	151.59	0.01

FCC ID: A3LSMS942B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX E: Page 9 of 28

Table 12
Body-worn/Hotspot Back Side SPLSR (part 3)

AGO Band/Antenna	AG1 Band/Antenna	AGO SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AGO: Ant A_UMTS 1750	AG1: Ant H_NR Band n77	0.736	0.59	1.326	108.39	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_GSM 850	0.545	0.582	1.127	164.89	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_LTE Band 12	0.545	0.655	1.205	161.66	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_LTE Band 26	0.545	0.588	1.133	158.65	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_NR Band n12	0.545	0.633	1.178	161.73	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_NR Band n26	0.545	0.826	1.371	161.66	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_NR Band n41	0.545	0.7	1.245	150.15	0.01
AGO: Ant A_UMTS 1900	AG1: Ant E_UMTS 850	0.545	0.592	1.137	159.14	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_LTE Band 25	0.545	0.652	1.197	152.55	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_LTE Band 41	0.545	0.555	1.1	153.93	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_LTE Band 66	0.545	0.577	1.122	155.89	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_NR Band n25	0.545	0.556	1.101	158.4	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_NR Band n41	0.545	0.789	1.334	157.98	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_NR Band n77	0.545	0.809	1.358	150.08	0.01
AGO: Ant A_UMTS 1900	AG1: Ant F_UMTS 1750	0.545	0.601	1.146	154	0.01
AGO: Ant A_UMTS 1900	AG1: Ant H_NR Band n77	0.545	0.59	1.135	110.32	0.01
AGO: Ant A_UMTS 850	AG1: Ant E_GSM 850	1.159	0.582	1.741	156.45	0.01
AGO: Ant A_UMTS 850	AG1: Ant E_LTE Band 12	1.159	0.655	1.819	152.31	0.02
AGO: Ant A_UMTS 850	AG1: Ant E_LTE Band 13	1.159	0.376	1.535	154.34	0.01
AGO: Ant A_UMTS 850	AG1: Ant E_LTE Band 26	1.159	0.588	1.747	149.14	0.02
AGO: Ant A_UMTS 850	AG1: Ant E_NR Band n12	1.159	0.633	1.792	152.47	0.02
AGO: Ant A_UMTS 850	AG1: Ant E_NR Band n26	1.159	0.826	1.985	152.31	0.02
AGO: Ant A_UMTS 850	AG1: Ant E_NR Band n41	1.159	0.7	1.859	141.99	0.02
AGO: Ant A_UMTS 850	AG1: Ant E_UMTS 850	1.159	0.592	1.751	150.01	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_LTE Band 25	1.159	0.652	1.811	141.91	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_LTE Band 41	1.159	0.555	1.714	144.18	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_LTE Band 66	1.159	0.577	1.736	145.01	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_NR Band n25	1.159	0.556	1.715	147.7	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_NR Band n41	1.159	0.789	1.948	147.02	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_NR Band n66	1.159	0.448	1.607	149.6	0.01
AGO: Ant A_UMTS 850	AG1: Ant F_NR Band n77	1.159	0.809	1.972	139.04	0.02
AGO: Ant A_UMTS 850	AG1: Ant F_UMTS 1750	1.159	0.601	1.76	143.11	0.02
AGO: Ant A_UMTS 850	AG1: Ant H_NR Band n77	1.159	0.59	1.749	98.26	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_GSM 850	1.18	0.582	1.762	162.18	0.01
AGO: Ant B_LTE Band 41	AG1: Ant E_LTE Band 12	1.18	0.655	1.84	157.54	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_LTE Band 13	1.18	0.376	1.556	159.7	0.01
AGO: Ant B_LTE Band 41	AG1: Ant E_LTE Band 26	1.18	0.588	1.768	154.29	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_NR Band n12	1.18	0.633	1.813	157.75	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_NR Band n26	1.18	0.826	2.006	157.54	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_NR Band n41	1.18	0.7	1.88	147.91	0.02
AGO: Ant B_LTE Band 41	AG1: Ant E_UMTS 850	1.18	0.592	1.772	155.38	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_LTE Band 25	1.18	0.652	1.832	146.32	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_LTE Band 41	1.18	0.555	1.735	149.19	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_LTE Band 66	1.18	0.577	1.757	149.22	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_NR Band n25	1.18	0.556	1.736	152.05	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_NR Band n41	1.18	0.789	1.969	151.18	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_NR Band n66	1.18	0.448	1.628	153.91	0.01
AGO: Ant B_LTE Band 41	AG1: Ant F_NR Band n77	1.18	0.809	1.993	143.16	0.02
AGO: Ant B_LTE Band 41	AG1: Ant F_UMTS 1750	1.18	0.601	1.781	147.33	0.02
AGO: Ant B_LTE Band 41	AG1: Ant H_NR Band n77	1.18	0.59	1.77	101.7	0.02
AGO: Ant B_NR Band n41	AG1: Ant E_GSM 850	0.829	0.582	1.411	159.79	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_LTE Band 12	0.829	0.655	1.489	155.28	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_LTE Band 13	0.829	0.376	1.205	157.4	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_LTE Band 26	0.829	0.588	1.417	152.05	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_NR Band n12	0.829	0.633	1.462	155.48	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_NR Band n26	0.829	0.826	1.655	155.28	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_NR Band n41	0.829	0.7	1.529	145.46	0.01
AGO: Ant B_NR Band n41	AG1: Ant E_UMTS 850	0.829	0.592	1.421	153.08	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_LTE Band 25	0.829	0.652	1.481	144.29	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_LTE Band 41	0.829	0.555	1.384	146.99	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_LTE Band 66	0.829	0.577	1.406	147.25	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_NR Band n25	0.829	0.556	1.385	150.04	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_NR Band n41	0.829	0.789	1.618	149.22	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_NR Band n66	0.829	0.448	1.277	151.91	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_NR Band n77	0.829	0.809	1.642	141.21	0.01
AGO: Ant B_NR Band n41	AG1: Ant F_UMTS 1750	0.829	0.601	1.43	145.35	0.01
AGO: Ant B_NR Band n41	AG1: Ant H_NR Band n77	0.829	0.59	1.419	99.93	0.02
AGO: Ant C_NR Band n77	AG1: Ant E_LTE Band 12	0.412	0.655	1.072	139.05	0.01
AGO: Ant C_NR Band n77	AG1: Ant E_LTE Band 26	0.412	0.588	1	135.6	N/A
AGO: Ant C_NR Band n77	AG1: Ant E_NR Band n12	0.412	0.633	1.045	139.43	0.01
AGO: Ant C_NR Band n77	AG1: Ant E_NR Band n26	0.412	0.826	1.238	139.05	0.01
AGO: Ant C_NR Band n77	AG1: Ant E_NR Band n41	0.412	0.7	1.112	131.8	0.01
AGO: Ant C_NR Band n77	AG1: Ant E_UMTS 850	0.412	0.592	1.004	137.35	0.01
AGO: Ant C_NR Band n77	AG1: Ant F_LTE Band 25	0.412	0.652	1.064	125.73	0.01
AGO: Ant C_NR Band n77	AG1: Ant F_NR Band n41	0.412	0.789	1.201	129.93	0.01
AGO: Ant C_NR Band n77	AG1: Ant F_NR Band n77	0.412	0.809	1.225	121.91	0.01
AGO: Ant C_NR Band n77	AG1: Ant F_UMTS 1750	0.412	0.601	1.013	126.26	0.01
AGO: Ant C_NR Band n77	AG1: Ant H_NR Band n77	0.412	0.59	1.002	79.58	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_GSM 850	0.995	0.582	1.577	147.87	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_LTE Band 12	0.995	0.655	1.655	145.7	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_LTE Band 13	0.995	0.376	1.371	147.21	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_LTE Band 26	0.995	0.588	1.583	142.9	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_NR Band n12	0.995	0.633	1.628	145.66	0.01
AGO: Ant D_NR Band n41	AG1: Ant E_NR Band n26	0.995	0.826	1.821	145.7	0.02
AGO: Ant D_NR Band n41	AG1: Ant E_NR Band n41	0.995	0.7	1.695	132.93	0.02
AGO: Ant D_NR Band n41	AG1: Ant E_UMTS 850	0.995	0.592	1.587	142.92	0.01
AGO: Ant D_NR Band n41	AG1: Ant F_LTE Band 25	0.995	0.652	1.647	138.46	0.02
AGO: Ant D_NR Band n41	AG1: Ant F_LTE Band 41	0.995	0.555	1.55	138.55	0.01
AGO: Ant D_NR Band n41	AG1: Ant F_LTE Band 66	0.995	0.577	1.572	142.15	0.01
AGO: Ant D_NR Band n41	AG1: Ant F_NR Band n25	0.995	0.556	1.551	144.33	0.01
AGO: Ant D_NR Band n41	AG1: Ant F_NR Band n41	0.995	0.789	1.784	144.32	0.02
AGO: Ant D_NR Band n41	AG1: Ant F_NR Band n66	0.995	0.448	1.443	146.33	0.01
AGO: Ant D_NR Band n41	AG1: Ant F_NR Band n77	0.995	0.809	1.808	136.65	0.02
AGO: Ant D_NR Band n41	AG1: Ant F_UMTS 1750	0.995	0.601	1.596	140.28	0.01
AGO: Ant D_NR Band n41	AG1: Ant H_NR Band n77	0.995	0.59	1.585	99.4	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_GSM 850	1.115	0.582	1.697	144.2	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_LTE Band 12	1.115	0.655	1.775	142.62	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_LTE Band 13	1.115	0.376	1.491	143.98	0.01
AGO: Ant D_NR Band n77	AG1: Ant E_LTE Band 26	1.115	0.588	1.703	139.95	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_NR Band n12	1.115	0.633	1.748	142.53	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_NR Band n26	1.115	0.826	1.941	142.63	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_NR Band n41	1.115	0.7	1.815	129.2	0.02
AGO: Ant D_NR Band n77	AG1: Ant E_UMTS 850	1.115	0.592	1.707	139.72	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_LTE Band 25	1.115	0.652	1.767	136.36	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_LTE Band 41	1.115	0.555	1.67	135.81	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_LTE Band 66	1.115	0.577	1.692	140.21	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_NR Band n25	1.115	0.556	1.671	142.22	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_NR Band n41	1.115	0.789	1.904	142.42	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_NR Band n66	1.115	0.448	1.563	144.25	0.01
AGO: Ant D_NR Band n77	AG1: Ant F_NR Band n77	1.115	0.809	1.928	134.88	0.02
AGO: Ant D_NR Band n77	AG1: Ant F_UMTS 1750	1.115	0.601	1.716	138.37	0.02
AGO: Ant D_NR Band n77	AG1: Ant H_NR Band n77	1.115	0.59	1.705	99.06	0.02

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the

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sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

E.3.3 Hotspot Spatial Analysis

Table 13
Hotspot Front SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord
AG0	A	GSM 850	0.427	-6.1	68.0
AG1	E	GSM 850	0.495	-29.0	-79.0
AG0	A	GSM 1900	0.531	-22.1	79.0
AG0	A	UMTS 850	0.607	-8.9	65.0
AG1	E	UMTS 850	0.503	-37.4	-82.6
AG0	A	UMTS 1750	0.694	-26.5	78.1
AG1	F	UMTS 1750	0.430	-4.2	-75.8
AG0	A	UMTS 1900	0.761	-24.1	85.8
AG0	A	LTE Band 12	0.447	-4.1	67.0
AG1	E	LTE Band 12	0.498	-36.8	-83.4
AG0	A	LTE Band 13	0.345	-5.1	67.6
AG1	E	LTE Band 13	0.334	-36.6	-86.8
AG0	A	LTE Band 26	0.557	-3.9	73.5
AG1	E	LTE Band 26	0.666	-34.2	-82.1
AG0	A	LTE Band 66	0.639	-28.1	79.7
AG1	F	LTE Band 66	0.512	-10.0	-74.8
AG0	A	LTE Band 25	0.725	-22.8	81.4
AG1	F	LTE Band 25	0.570	-4.2	-75.8
AG0	B	LTE Band 41	0.502	-35.4	80.5
AG1	F	LTE Band 41	0.381	-4.8	-72.8
AG0	A	NR Band n12	0.414	-6.1	66.9
AG1	E	NR Band n12	0.387	-39.1	-80.1
AG0	A	NR Band n26	0.652	-5.2	68.7
AG1	E	NR Band n26	0.661	-40.7	-82.9
AG0	A	NR Band n66	0.791	-24.6	71.7
AG1	F	NR Band n66	0.413	-15.3	-76.0
AG0	A	NR Band n25	0.910	-26.3	81.2
AG1	F	NR Band n25	0.482	-5.6	-80.7
AG0	B	NR Band n41	0.365	-36.1	77.9
AG0	D	NR Band n41	0.294	-41.3	80.3
AG1	E	NR Band n41	0.410	-54.9	-77.2
AG1	F	NR Band n41	0.576	-6.2	-76.7
AG0	C	NR Band n77	0.352	9.8	51.2
AG0	D	NR Band n77	0.012	-44.6	62.8
AG1	F	NR Band n77	0.562	-5.8	-73.3
AG1	H	NR Band n77	0.570	5.1	-24.7

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Table 14
Hotspot Front Side SPLSR

AGO Band/Antenna	AG1 Band/Antenna	AGO SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AGO: Ant A, GSM 1900	AG1: Ant E, GSM 850	0.531	0.495	1.026	158.15	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, LTE Band 12	0.531	0.498	1.033	163.06	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, LTE Band 26	0.531	0.666	1.197	161.55	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, NR Band n26	0.531	0.661	1.192	162.96	0.01
AGO: Ant A, GSM 1900	AG1: Ant E, UMTS 850	0.531	0.503	1.034	162.32	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, LTE Band 25	0.531	0.57	1.101	155.83	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, LTE Band 66	0.531	0.512	1.043	154.28	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n25	0.531	0.482	1.013	160.55	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n41	0.531	0.576	1.107	156.51	0.01
AGO: Ant A, GSM 1900	AG1: Ant F, NR Band n77	0.531	0.562	1.096	153.17	0.01
AGO: Ant A, GSM 1900	AG1: Ant H, NR Band n77	0.531	0.57	1.101	107.21	0.01
AGO: Ant A, GSM 850	AG1: Ant E, LTE Band 26	0.427	0.666	1.093	152.71	0.01
AGO: Ant A, GSM 850	AG1: Ant E, NR Band n26	0.427	0.661	1.088	154.82	0.01
AGO: Ant A, GSM 850	AG1: Ant F, NR Band n41	0.427	0.576	1.003	144.7	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, LTE Band 26	0.447	0.666	1.113	152.11	0.01
AGO: Ant A, LTE Band 12	AG1: Ant E, NR Band n26	0.447	0.661	1.108	154.3	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, LTE Band 25	0.447	0.57	1.017	142.8	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n41	0.447	0.576	1.023	143.72	0.01
AGO: Ant A, LTE Band 12	AG1: Ant F, NR Band n77	0.447	0.562	1.012	140.31	0.01
AGO: Ant A, LTE Band 12	AG1: Ant H, NR Band n77	0.447	0.57	1.017	92.16	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, LTE Band 26	0.345	0.666	1.011	152.5	0.01
AGO: Ant A, LTE Band 13	AG1: Ant E, NR Band n26	0.345	0.661	1.006	154.65	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, GSM 850	0.725	0.495	1.22	160.52	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 12	0.725	0.498	1.227	165.39	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 13	0.725	0.334	1.059	168.77	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, LTE Band 26	0.725	0.666	1.391	163.9	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n12	0.725	0.387	1.112	162.32	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n26	0.725	0.661	1.386	165.27	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, NR Band n41	0.725	0.41	1.135	161.82	0.01
AGO: Ant A, LTE Band 25	AG1: Ant E, UMTS 850	0.725	0.503	1.228	164.65	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 25	0.725	0.57	1.295	158.3	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 41	0.725	0.381	1.106	155.25	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, LTE Band 66	0.725	0.512	1.237	156.72	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n25	0.725	0.482	1.207	163.01	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n41	0.725	0.576	1.301	158.97	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n66	0.725	0.413	1.138	157.58	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, NR Band n77	0.725	0.562	1.29	155.63	0.01
AGO: Ant A, LTE Band 25	AG1: Ant F, UMTS 1750	0.725	0.43	1.155	158.3	0.01
AGO: Ant A, LTE Band 25	AG1: Ant H, NR Band n77	0.725	0.57	1.295	109.71	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, GSM 850	0.557	0.495	1.052	154.55	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, LTE Band 12	0.557	0.498	1.059	160.31	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, LTE Band 26	0.557	0.666	1.223	158.52	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, NR Band n26	0.557	0.661	1.218	160.67	0.01
AGO: Ant A, LTE Band 26	AG1: Ant E, UMTS 850	0.557	0.503	1.06	159.65	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, LTE Band 25	0.557	0.57	1.127	149.3	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, LTE Band 66	0.557	0.512	1.069	148.43	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n25	0.557	0.482	1.039	154.21	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n41	0.557	0.576	1.133	150.22	0.01
AGO: Ant A, LTE Band 26	AG1: Ant F, NR Band n77	0.557	0.562	1.122	146.81	0.01
AGO: Ant A, LTE Band 26	AG1: Ant H, NR Band n77	0.557	0.57	1.127	98.61	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, GSM 850	0.639	0.495	1.134	158.7	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, LTE Band 12	0.639	0.498	1.141	163.33	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, LTE Band 26	0.639	0.666	1.305	161.91	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n12	0.639	0.387	1.026	160.18	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n26	0.639	0.661	1.3	163.09	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, NR Band n41	0.639	0.41	1.049	159.17	0.01
AGO: Ant A, LTE Band 66	AG1: Ant E, UMTS 850	0.639	0.503	1.142	162.57	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 25	0.639	0.57	1.209	157.33	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 41	0.639	0.381	1.02	154.27	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, LTE Band 66	0.639	0.512	1.151	155.56	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n25	0.639	0.482	1.121	161.97	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n41	0.639	0.576	1.215	157.93	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n66	0.639	0.413	1.052	156.23	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, NR Band n77	0.639	0.562	1.204	154.62	0.01
AGO: Ant A, LTE Band 66	AG1: Ant F, UMTS 1750	0.639	0.43	1.069	157.33	0.01
AGO: Ant A, LTE Band 66	AG1: Ant H, NR Band n77	0.639	0.57	1.209	109.55	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, LTE Band 26	0.414	0.666	1.08	151.63	0.01
AGO: Ant A, NR Band n12	AG1: Ant E, NR Band n26	0.414	0.661	1.075	153.74	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, GSM 850	0.91	0.495	1.405	160.22	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 12	0.91	0.498	1.412	164.93	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 13	0.91	0.334	1.244	168.32	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, LTE Band 26	0.91	0.666	1.576	163.49	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n12	0.91	0.387	1.297	161.81	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n26	0.91	0.661	1.571	164.73	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, NR Band n41	0.91	0.41	1.32	160.96	0.01
AGO: Ant A, NR Band n25	AG1: Ant E, UMTS 850	0.91	0.503	1.413	164.18	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 25	0.91	0.57	1.48	158.55	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 41	0.91	0.381	1.291	155.49	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, LTE Band 66	0.91	0.512	1.422	156.85	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n25	0.91	0.482	1.392	163.22	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n41	0.91	0.576	1.486	159.17	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n66	0.91	0.413	1.323	157.58	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, NR Band n77	0.91	0.562	1.475	155.85	0.01
AGO: Ant A, NR Band n25	AG1: Ant F, UMTS 1750	0.91	0.43	1.34	158.55	0.01
AGO: Ant A, NR Band n25	AG1: Ant H, NR Band n77	0.91	0.57	1.48	110.46	0.02
AGO: Ant A, NR Band n26	AG1: Ant E, GSM 850	0.652	0.495	1.147	149.61	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, LTE Band 12	0.652	0.498	1.154	155.35	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, LTE Band 26	0.652	0.666	1.318	153.56	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n12	0.652	0.387	1.039	152.61	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n26	0.652	0.661	1.313	155.7	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, NR Band n41	0.652	0.41	1.062	154.13	0.01
AGO: Ant A, NR Band n26	AG1: Ant E, UMTS 850	0.652	0.503	1.155	154.69	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 25	0.652	0.57	1.222	144.5	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 41	0.652	0.381	1.033	141.5	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, LTE Band 66	0.652	0.512	1.164	143.58	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n25	0.652	0.482	1.134	149.4	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n41	0.652	0.576	1.228	145.4	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n66	0.652	0.413	1.065	145.05	0.01
AGO: Ant A, NR Band n26	AG1: Ant F, NR Band n77	0.652	0.562	1.217	142	0.01

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Table 15
Hotspot Front Side SPLSR (part 2)

AG0 Band/Antenna	AG1 Band/Antenna	AG0 SAR	AG1 SAR	Standalone Sum SAR	Distance (mm)	SPLSR
AGO: Ant A, NR Band n26	AG1: Ant F, UMTS 1750	0.652	0.43	1.082	144.5	0.01
AGO: Ant A, NR Band n26	AG1: Ant H, NR Band n77	0.652	0.57	1.222	93.97	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, GSM 850	0.791	0.495	1.286	150.76	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 12	0.791	0.498	1.293	155.58	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 13	0.791	0.334	1.125	158.95	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, LTE Band 26	0.791	0.666	1.457	154.1	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n12	0.791	0.387	1.178	152.49	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n26	0.791	0.661	1.452	155.44	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, NR Band n41	0.791	0.41	1.201	151.95	0.01
AGO: Ant A, NR Band n66	AG1: Ant E, UMTS 850	0.791	0.503	1.294	154.83	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 25	0.791	0.57	1.361	148.9	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 41	0.791	0.381	1.172	145.85	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, LTE Band 66	0.791	0.512	1.303	147.23	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n25	0.791	0.482	1.273	153.58	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n41	0.791	0.576	1.367	149.54	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n66	0.791	0.413	1.204	147.99	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, NR Band n77	0.791	0.562	1.356	146.21	0.01
AGO: Ant A, NR Band n66	AG1: Ant F, UMTS 1750	0.791	0.43	1.221	148.9	0.01
AGO: Ant A, NR Band n66	AG1: Ant H, NR Band n77	0.791	0.57	1.361	100.87	0.02
AGO: Ant A, UMTS 1750	AG1: Ant E, GSM 850	0.694	0.495	1.189	157.12	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 12	0.694	0.498	1.196	161.83	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 13	0.694	0.334	1.028	165.21	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, LTE Band 26	0.694	0.666	1.36	160.38	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n12	0.694	0.387	1.081	158.7	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n26	0.694	0.661	1.355	161.62	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, NR Band n41	0.694	0.41	1.104	157.88	0.01
AGO: Ant A, UMTS 1750	AG1: Ant E, UMTS 850	0.694	0.503	1.197	161.07	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 25	0.694	0.57	1.264	155.51	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 41	0.694	0.381	1.075	152.45	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, LTE Band 66	0.694	0.512	1.206	153.79	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n25	0.694	0.482	1.176	160.17	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n41	0.694	0.576	1.27	156.13	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n66	0.694	0.413	1.107	154.51	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, NR Band n77	0.694	0.562	1.259	152.81	0.01
AGO: Ant A, UMTS 1750	AG1: Ant F, UMTS 1750	0.694	0.43	1.124	155.51	0.01
AGO: Ant A, UMTS 1750	AG1: Ant H, NR Band n77	0.694	0.57	1.264	107.55	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, GSM 850	0.761	0.495	1.256	164.87	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, LTE Band 12	0.761	0.498	1.263	169.68	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, LTE Band 13	0.761	0.334	1.095	173.05	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, LTE Band 26	0.761	0.666	1.427	168.2	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, NR Band n12	0.761	0.387	1.148	166.58	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, NR Band n26	0.761	0.661	1.422	169.51	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, NR Band n41	0.761	0.41	1.171	165.88	0.01
AGO: Ant A, UMTS 1900	AG1: Ant E, UMTS 850	0.761	0.503	1.264	168.92	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, LTE Band 25	0.761	0.57	1.331	162.82	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, LTE Band 41	0.761	0.381	1.142	159.77	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, LTE Band 66	0.761	0.512	1.273	161.22	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, NR Band n25	0.761	0.482	1.243	167.52	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, NR Band n41	0.761	0.576	1.337	163.48	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, NR Band n66	0.761	0.413	1.174	162.04	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, NR Band n77	0.761	0.562	1.326	160.15	0.01
AGO: Ant A, UMTS 1900	AG1: Ant F, UMTS 1750	0.761	0.43	1.191	162.82	0.01
AGO: Ant A, UMTS 1900	AG1: Ant H, NR Band n77	0.761	0.57	1.331	114.29	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, GSM 850	0.607	0.495	1.102	145.4	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, LTE Band 12	0.607	0.498	1.109	151	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, LTE Band 26	0.607	0.666	1.273	149.26	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, NR Band n26	0.607	0.661	1.268	151.28	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, NR Band n41	0.607	0.41	1.017	149.46	0.01
AGO: Ant A, UMTS 850	AG1: Ant E, UMTS 850	0.607	0.503	1.11	150.33	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, LTE Band 25	0.607	0.57	1.177	140.88	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, LTE Band 66	0.607	0.512	1.119	139.8	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, NR Band n25	0.607	0.482	1.089	145.74	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, NR Band n41	0.607	0.576	1.183	141.73	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, NR Band n66	0.607	0.413	1.02	141.15	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, NR Band n77	0.607	0.562	1.172	138.33	0.01
AGO: Ant A, UMTS 850	AG1: Ant F, UMTS 1750	0.607	0.43	1.037	140.88	0.01
AGO: Ant A, UMTS 850	AG1: Ant H, NR Band n77	0.607	0.57	1.177	90.79	0.01
AGO: Ant B, LTE Band 41	AG1: Ant E, LTE Band 12	0.502	0.498	1.004	163.91	0.01
AGO: Ant B, LTE Band 41	AG1: Ant E, LTE Band 26	0.502	0.666	1.168	162.6	0.01
AGO: Ant B, LTE Band 41	AG1: Ant E, NR Band n26	0.502	0.661	1.163	163.49	0.01
AGO: Ant B, LTE Band 41	AG1: Ant E, UMTS 850	0.502	0.503	1.005	163.11	0.01
AGO: Ant B, LTE Band 41	AG1: Ant F, LTE Band 25	0.502	0.57	1.072	159.38	0.01
AGO: Ant B, LTE Band 41	AG1: Ant F, LTE Band 66	0.502	0.512	1.014	157.36	0.01
AGO: Ant B, LTE Band 41	AG1: Ant F, NR Band n41	0.502	0.576	1.078	159.89	0.01
AGO: Ant B, LTE Band 41	AG1: Ant F, NR Band n77	0.502	0.562	1.067	156.62	0.01
AGO: Ant B, LTE Band 41	AG1: Ant H, NR Band n77	0.502	0.57	1.072	112.73	0.01
AGO: Ant B, NR Band n41	AG1: Ant E, LTE Band 26	0.365	0.666	1.031	160.01	0.01
AGO: Ant B, NR Band n41	AG1: Ant E, NR Band n26	0.365	0.661	1.026	160.87	0.01
AGO: Ant C, NR Band n77	AG1: Ant E, LTE Band 26	0.352	0.666	1.018	140.37	0.01
AGO: Ant C, NR Band n77	AG1: Ant E, NR Band n26	0.352	0.661	1.013	143.29	0.01
AGO: Ant A, GSM 850	AG1: Ant F, LTE Band 25	0.427	0.57	0.997	143.81	N/A

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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Table 16
Hotspot Right Edge SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR
AG0	A	GSM 850	0.245
AG1	E	GSM 850	0.228
AG0	A	GSM 1900	0.037
AG0	A	UMTS 850	0.183
AG1	E	UMTS 850	0.202
AG0	A	UMTS 1750	0.036
AG0	A	UMTS 1900	0.049
AG0	A	LTE Band 12	0.180
AG1	E	LTE Band 12	0.238
AG0	A	LTE Band 13	0.219
AG1	E	LTE Band 13	0.157
AG0	A	LTE Band 26	0.231
AG1	E	LTE Band 26	0.218
AG0	A	LTE Band 66	0.026
AG0	A	LTE Band 25	0.026
AG0	A	NR Band n12	0.140
AG1	E	NR Band n12	0.235
AG0	A	NR Band n26	0.315
AG1	E	NR Band n26	0.322
AG0	A	NR Band n66	0.042
AG0	A	NR Band n25	0.058
AG0	D	NR Band n41	0.032
AG1	E	NR Band n41	0.177
AG0	D	NR Band n77	0.019

Table 17
Hotspot Right Edge SPLSR

Antenna Pair		Standalone Values		Standalone Sum
		Reported SAR	Reported SAR	
Ant "a"	Ant "b"	a	b	a+b
AG0	AG1	0.315	0.322	0.637

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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Table 18
Hotspot Left Edge SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR
AG0	A	GSM 850	0.142
AG0	A	GSM 1900	0.058
AG0	A	UMTS 850	0.169
AG0	A	UMTS 1750	0.088
AG1	F	UMTS 1750	0.031
AG0	A	UMTS 1900	0.049
AG0	A	LTE Band 12	0.326
AG0	A	LTE Band 13	0.289
AG0	A	LTE Band 26	0.208
AG0	A	LTE Band 66	0.063
AG1	F	LTE Band 66	0.057
AG0	A	LTE Band 25	0.043
AG1	F	LTE Band 25	0.058
AG0	B	LTE Band 41	0.214
AG1	F	LTE Band 41	0.023
AG0	A	NR Band n12	0.273
AG0	A	NR Band n26	0.233
AG0	A	NR Band n66	0.068
AG1	F	NR Band n66	0.062
AG0	A	NR Band n25	0.104
AG1	F	NR Band n25	0.081
AG0	B	NR Band n41	0.155
AG1	F	NR Band n41	0.037
AG0	C	NR Band n77	0.263
AG1	F	NR Band n77	0.040
AG1	H	NR Band n77	0.056

Table 19
Hotspot Left Edge SPLSR

Antenna Pair		Standalone Values		Standalone Sum
		Reported SAR	Reported SAR	
Ant "a"	Ant "b"	a	b	a+b
AG0	AG1	0.326	0.081	0.407

Note: The light gray highlighted row shows the worst case sum of all AG combinations under 1W/kg. Since the sum of these combinations is less than or equal to 1 W/kg (SAR design target for this EUT), therefore no further analysis is needed.

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E.4 Simultaneous Analysis

E.4.1 Head SAR Simultaneous Analysis

Table 20
Held-to-ear AG0 Highest Reported SAR

AG0 1g Reported SAR (W/kg)						
	Configuration	A	B	C	D	Max
Head	Right Cheek	0.284	0.046	0.013	0.000	0.284
	Right Tilt	0.140	0.048	0.028	0.000	0.140
	Left Cheek	0.244	0.082	0.017	0.003	0.244
	Left Tilt	0.144	0.059	0.006	0.001	0.144

Table 21
Held-to-ear AG1 Highest Reported SAR

AG1 1g Reported SAR (W/kg)					
	Configuration	E	F	H	Max
Head	Right Cheek	0.695	0.729	0.651	0.729
	Right Tilt	0.593	0.885	0.040	0.885
	Left Cheek	0.719	0.474	0.451	0.719
	Left Tilt	0.654	0.618	0.031	0.654

Table 22
Held-to-ear WLAN Highest Reported SAR

AGa 1g Reported SAR (W/kg)													
	Configuration	2.4 GHz WiFi Ant G	2.4 GHz WiFi Ant I	2.4 GHz WiFi MIMO	5 GHz WiFi Ant G	5 GHz WiFi Ant E	5 GHz WiFi MIMO	6 GHz WiFi Ant G	6 GHz WiFi Ant E	6 GHz WiFi MIMO	Max 2.4 GHz WiFi	Max 5 GHz WiFi	Max 6 GHz WiFi
Head	Right Cheek	0.476	0.284	0.508	0.435	0.153	0.527	0.196	0.024	0.335	0.508	0.527	0.335
	Right Tilt	0.188	0.034	0.275	0.230	0.151	0.347	0.111	0.024	0.203	0.275	0.347	0.203
	Left Cheek	0.114	0.445	0.447	0.133	0.324	0.362	0.050	0.024	0.071	0.447	0.362	0.071
	Left Tilt	0.059	0.063	0.114	0.118	0.246	0.280	0.052	0.027	0.091	0.114	0.280	0.091

Table 23
Held-to-ear 2.4 GHz Bluetooth Highest Reported SAR

Bluetooth 1g Reported SAR (W/kg)					
	Configuration	G	I	MIMO	Max
Head	Right Cheek	0.326	0.300	0.206	0.326
	Right Tilt	0.178	0.034	0.076	0.178
	Left Cheek	0.071	0.504	0.243	0.504
	Left Tilt	0.065	0.071	0.036	0.071

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Table 24
Held-to-ear AG Verification

Head	Configuration	AG0 SAR	AG1 SAR	2.4 GHz WIFI Ant I SAR	2.4 GHz WIFI SAR	Bluetooth Ant G SAR	AG0 + 2.4 GHz WIFI Ant I + Bluetooth Ant G	AG1 + 2.4 GHz WIFI Ant I + Bluetooth Ant G	AG0 + 2.4 GHz WIFI	AG1 + 2.4 GHz WIFI
	Right Cheek	0.284	0.729	0.284	0.508	0.326	0.894	1.339	0.792	1.237
	Right Tilt	0.140	0.885	0.034	0.275	0.178	0.352	1.097	0.415	1.160
	Left Cheek	0.244	0.719	0.445	0.447	0.071	0.760	1.235	0.691	1.166
	Left Tilt	0.144	0.654	0.063	0.114	0.065	0.272	0.782	0.258	0.768
Head	Configuration	AG0 SAR	AG1 SAR	5 GHz WIFI SAR	6 GHz WIFI SAR	Bluetooth SAR	AG0 + 5 GHz WIFI + Bluetooth	AG0 + 6 GHz WIFI + Bluetooth	AG1 + 5 GHz WIFI + Bluetooth	AG1 + 6 GHz WIFI + Bluetooth
	Right Cheek	0.284	0.729	0.527	0.335	0.326	1.137	0.945	1.582	1.390
	Right Tilt	0.140	0.885	0.347	0.203	0.178	0.665	0.521	1.410	1.266
	Left Cheek	0.244	0.719	0.362	0.071	0.504	1.110	0.819	1.585	1.294
	Left Tilt	0.144	0.654	0.280	0.091	0.071	0.495	0.306	1.005	0.816

Notes:

- For all combinations where the sum of AG0/AG1+WLAN+BT is less than 1.6 W/kg, there's no further analysis required for compliance demonstration.

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E.4.2 Body SAR Simultaneous Analysis

Table 25
Body AG0 Highest Reported SAR

AG0 1g Reported SAR (W/kg)						
	Configuration	A	B	C	D	Max
Body	Back	1.159	1.180	0.412	1.115	1.180
	Front	0.910	0.502	0.352	0.294	0.910
	Top	-	-	-	-	-
	Bottom	0.871	0.534	0.068	0.137	0.871
	Right	0.315	-	-	0.032	0.315
	Left	0.326	0.214	0.263	-	0.326

Table 26
Body AG1 Highest Reported SAR

AG1 1g Reported SAR (W/kg)					
	Configuration	E	F	H	Max
Body	Back	0.826	0.813	0.590	0.826
	Front	0.666	0.576	0.570	0.666
	Top	0.388	0.492	-	0.492
	Bottom	-	-	-	-
	Right	0.322	-	-	0.322
	Left	-	0.081	0.056	0.081

Table 27
Body WLAN Highest Reported SAR

AGa 1g Reported SAR (W/kg)													
	Configuration	2.4 GHz WIFI Ant G	2.4 GHz WIFI Ant I	2.4 GHz WIFI MIMO	5 GHz WIFI Ant G	5 GHz WIFI Ant E	5 GHz WIFI MIMO	6 GHz WIFI Ant G	6 GHz WIFI Ant E	6 GHz WIFI MIMO	Max 2.4 GHz WIFI	Max 5 GHz WIFI	Max 6 GHz WIFI
Body	Back	0.361	0.292	0.560	0.331	0.439	0.392	0.139	0.446	0.395	0.560	0.439	0.446
	Front	0.244	0.293	0.389	0.181	0.129	0.236	0.073	0.011	0.146	0.389	0.236	0.146
	Top	0.075	0.000	0.089	0.032	0.051	0.064	0.016	0.047	0.054	0.089	0.064	0.054
	Bottom	-	-	-	-	-	-	-	-	-	-	-	-
	Right	-	0.033	0.039	-	0.012	0.011	-	0.003	0.006	0.039	0.012	0.006
	Left	0.213	-	0.248	0.143	-	0.202	0.083	-	0.125	0.248	0.202	0.125

Table 28
Body Bluetooth Highest Reported SAR

Bluetooth 1g Reported SAR (W/kg)					
	Configuration	G	I	MIMO	Max
Body	Back	0.492	0.231	0.277	0.492
	Front	0.391	-	-	0.391
	Top	0.087	-	-	0.087
	Bottom	-	-	-	-
	Right	-	-	-	-
	Left	0.225	-	-	0.225

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Table 29
Body AG Verification

Body	Configuration	AG0 SAR	AG1 SAR	2.4 GHz WIFI Ant I SAR	2.4 GHz WIFI SAR	Bluetooth Ant G SAR	AG0 + 2.4 GHz WIFI Ant I + Bluetooth Ant G	AG1 + 2.4 GHz WIFI Ant I + Bluetooth Ant G	AG0 + 2.4 GHz WIFI	AG1 + 2.4 GHz WIFI
	Back	1.180	0.826	0.292	0.560	0.492	See Table Below	See Table Below	See Table Below	1.386
	Front	0.910	0.666	0.293	0.389	0.391	1.594	1.350	1.299	1.055
	Top	-	0.492	0.000	0.089	0.087	0.087	0.579	0.089	0.581
	Bottom	0.871	-	-	-	-	0.871	-	0.871	-
	Right	0.315	0.322	0.033	0.039	-	0.348	0.355	0.354	0.361
	Left	0.326	0.081	-	0.248	0.225	0.551	0.306	0.574	0.329

Body	Configuration	AG0 SAR	AG1 SAR	5 GHz WIFI SAR	6 GHz WIFI SAR	Bluetooth SAR	AG0 + 5 GHz WIFI + Bluetooth	AG0 + 6 GHz WIFI + Bluetooth	AG1 + 5 GHz WIFI + Bluetooth	AG1 + 6 GHz WIFI + Bluetooth
	Back	1.180	0.826	0.439	0.446	0.492	See Table Below	See Table Below	See Table Below	See Table Below
	Front	0.910	0.666	0.236	0.146	0.391	1.537	1.447	1.293	1.203
	Top	-	0.492	0.064	0.054	0.087	0.151	0.141	0.643	0.633
	Bottom	0.871	-	-	-	-	0.871	0.871	-	-
	Right	0.315	0.322	0.012	0.006	-	0.327	0.321	0.334	0.328
	Left	0.326	0.081	0.202	0.125	0.225	0.753	0.676	0.508	0.431

Back							
Bottom Set			Top Set		Minimal Distance (mm)	Top Set + Bottom Set	SPLSR
AG0 Max SAR			2.4 GHz WIFI Ant I+Bluetooth Ant G				
Antenna	SAR	Position	SAR	Position			
AG0	1.18	53.4	0.784	-45.6	99.0	1.964	0.03

Back							
Bottom Set			Top Set		Minimal Distance (mm)	Top Set + Bottom Set	SPLSR
AG0 Max SAR			2.4 GHz WIFI				
Antenna	SAR	Position	SAR	Position			
AG0	1.18	53.4	0.56	-47.3	100.7	1.74	0.02

Back							
Bottom Set			Top Set		Minimal Distance (mm)	Top Set + Bottom Set	SPLSR
AG0 Max SAR			5 GHz WIFI+Bluetooth				
Antenna	SAR	Position	SAR	Position			
AG0	1.18	53.4	0.931	-45.6	99.0	2.111	0.03

Back							
Bottom Set			Top Set		Minimal Distance (mm)	Top Set + Bottom Set	SPLSR
AG0 Max SAR			6 GHz WIFI+Bluetooth				
Antenna	SAR	Position	SAR	Position			
AG0	1.18	53.4	0.938	-45.6	99.0	2.118	0.03

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Back																			
AG1					2.4 GHz WIFI Ant I				Bluetooth Ant G					AG1 to 2.4 GHz WIFI Ant I Distance (mm)	AG1 to Bluetooth Ant G Distance (mm)	Minimal Distance (mm)	AG1 + 2.4 GHz WIFI Ant I+Bluetooth Ant G SAR	SPLSR	
Antenna	Band	SAR	Position		Antenna	Band	SAR	Position		Antenna	Band	SAR	Position						
			x	y				x	y				x	y					
E	NR Band n26	0.826	-22.1	-79.0	I	2.4 GHz WIFI	0.292	-1.3	-54.2	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	32.4	45.0	32.4	1.61	See Note 4
F	NR Band n77	0.809	-	-	I	2.4 GHz WIFI	0.292	-	-	G	2.4 GHz Bluetooth	0.492	-	-	-	-	-	1.593	N/A
Back																			
AG1					5 GHz WIFI				Bluetooth					AG1 to 5 GHz WIFI Distance (mm)	AG1 to Bluetooth Distance (mm)	Minimal Distance (mm)	AG1 + 5 GHz WIFI+Bluetooth SAR	SPLSR	
Antenna	Band	SAR	Position		Antenna	Band	SAR	Position		Antenna	Band	SAR	Position						
			x	y				x	y				x	y					
E	NR Band n26	0.826	-22.1	-79.0	E	5 GHz WIFI	0.439	-12.1	-66.5	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	16.0	45.0	16.0	1.757	See Note 4
F	NR Band n77	0.809	-45.5	-67.0	E	5 GHz WIFI	0.439	-12.1	-66.5	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	33.4	22.5	22.5	1.74	See Note 4
F	NR Band n41	0.789	-44.7	-75.0	E	5 GHz WIFI	0.439	-12.1	-66.5	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	33.7	30.4	30.4	1.72	See Note 4
E	NR Band n26	0.826	-22.1	-79.0	MIMO	5 GHz WIFI	0.392	-60.0	-63.9	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	40.8	45.0	40.8	1.71	See Note 4
F	NR Band n77	0.809	-45.5	-67.0	MIMO	5 GHz WIFI	0.392	-60.0	-63.9	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	14.8	22.5	14.8	1.693	See Note 4
F	NR Band n41	0.789	-44.7	-75.0	MIMO	5 GHz WIFI	0.392	-60.0	-63.9	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	18.9	30.4	18.9	1.673	See Note 4
E	NR Band n26	0.826	-22.1	-79.0	G	5 GHz WIFI	0.331	-62.2	-63.1	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	43.1	45.0	43.1	1.649	See Note 4
F	NR Band n77	0.809	-45.5	-67.0	G	5 GHz WIFI	0.331	-62.2	-63.1	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	17.1	22.5	17.1	1.632	See Note 4
E	NR Band n41	0.700	-9.0	-66.1	E	5 GHz WIFI	0.439	-12.1	-66.5	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	3.1	47.9	3.1	1.631	See Note 4
F	NR Band n41	0.789	-44.7	-75.0	G	5 GHz WIFI	0.331	-62.2	-63.1	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	21.2	30.4	21.2	1.612	See Note 4
AG1 Max SAR		0.826	-	-	5 GHz WIFI Max SAR		0.439	-	-	I	2.4 GHz Bluetooth	0.231	-	-	-	-	-	1.496	N/A
AG1 Max SAR		0.826	-	-	5 GHz WIFI Max SAR		0.439	-	-	MIMO	2.4 GHz Bluetooth	0.277	-	-	-	-	-	1.542	N/A
E	LTE Band 12	0.655	-	-	E	5 GHz WIFI	0.439	-	-	G	2.4 GHz Bluetooth	0.492	-	-	-	-	-	1.586	N/A
Back																			
AG1					6 GHz WIFI				Bluetooth					AG1 to 6 GHz WIFI Distance (mm)	AG1 to Bluetooth Distance (mm)	Minimal Distance (mm)	AG1 + 6 GHz WIFI+Bluetooth SAR	SPLSR	
Antenna	Band	SAR	Position		Antenna	Band	SAR	Position		Antenna	Band	SAR	Position						
			x	y				x	y				x	y					
E	NR Band n26	0.826	-22.1	-79.0	E	6 GHz WIFI	0.446	-12.1	-65.4	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	16.9	45.0	16.9	1.764	See Note 4
F	NR Band n77	0.809	-45.5	-67.0	E	6 GHz WIFI	0.446	-12.1	-65.4	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	33.4	22.5	22.5	1.747	See Note 4
F	NR Band n41	0.789	-44.7	-75.0	E	6 GHz WIFI	0.446	-12.1	-65.4	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	34.0	30.4	30.4	1.727	See Note 4
E	NR Band n26	0.826	-22.1	-79.0	MIMO	6 GHz WIFI	0.395	-11.0	-66.0	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	17.1	45.0	17.1	1.713	See Note 4
F	NR Band n77	0.809	-45.5	-67.0	MIMO	6 GHz WIFI	0.395	-11.0	-66.0	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	34.5	22.5	22.5	1.696	See Note 4
F	NR Band n41	0.789	-44.7	-75.0	MIMO	6 GHz WIFI	0.395	-11.0	-66.0	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	34.9	30.4	30.4	1.676	See Note 4
E	NR Band n41	0.700	-9.0	-66.1	E	6 GHz WIFI	0.446	-12.1	-65.4	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6	3.2	47.9	3.2	1.638	See Note 4
AG1 Max SAR		0.826	-	-	G 6 GHz WIFI		0.139	-	-	G	2.4 GHz Bluetooth	0.492	-	-	-	-	-	1.457	N/A
AG1 Max SAR		0.826	-	-	6 GHz WIFI Max SAR		0.446	-	-	I	2.4 GHz Bluetooth	0.231	-	-	-	-	-	1.503	N/A
AG1 Max SAR		0.826	-	-	6 GHz WIFI Max SAR		0.446	-	-	MIMO	2.4 GHz Bluetooth	0.277	-	-	-	-	-	1.549	N/A
E	LTE Band 12	0.650	-	-	E	6 GHz WIFI	0.446	-	-	G	2.4 GHz Bluetooth	0.492	-	-	-	-	-	1.588	N/A

Notes:

- For all combinations where the sum of AG0/AG1+WLAN+BT is less than 1.6 W/kg, there's no further analysis required for compliance demonstration.
- No evaluation was performed to determine the aggregate 1g SAR for configurations where SPLS ratio between the antenna pairs was not greater than 0.04 per FCC KDB 447498 D04v01.
- External radios (WLAN/BT) are co-located, and their SAR is algebraically summed. Then, the value is used in the SPLSR calculation with AG0/1 and the minimum distance between the AG and the External Radio.
- Volumetric scans were performed in Section E.4.4 to determine the aggregate 1g SAR for configurations where SPLS ratio between the antenna pairs was greater than 0.04 per FCC KDB 447498 D04v01.
- Top to Bottom sets uses Y-coord. only for more conservative calculations. Please see Section E.3.3 for WWAN and section E.5 for WLAN/BT highest reported SAR and hotspot locations.
- For Body Back SAR, the highest reported SAR and the most conservative simultaneous transmission scenarios between Body-worn and Hotspot was evaluated for compliance.
- The light gray highlighted row shows the worst-case sum of all AG0/1+WLAN+Bluetooth combinations under 1.6 W/kg. Since the sum of these combinations is less than or equal to 1.6 W/kg, no further analysis is needed.

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E.4.3 Phablet SAR Simultaneous Analysis

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

Table 30
Phablet AG0 Highest Reported SAR

AG0 10g Reported SAR (W/kg)				
	Configuration	A	B	Max
Phablet	Back	-	-	-
	Front	-	-	-
	Top	-	-	-
	Bottom	1.162	1.302	1.302
	Right	-	-	-
	Left	-	-	-

Table 31
Phablet AG1 Highest Reported SAR

AG1 10g Reported SAR (W/kg)				
	Configuration	E	F	Max
Phablet	Back	-	-	-
	Front	-	-	-
	Top	0.527	2.200	2.200
	Bottom	-	-	-
	Right	-	-	-
	Left	-	-	-

Table 32
Phablet WLAN Highest Reported SAR

AGa 1g Reported SAR (W/kg)										
	Configuration	5 GHz WIFI Ant G	5 GHz WIFI Ant E	5 GHz WIFI MIMO	6 GHz WIFI Ant G	6 GHz WIFI Ant E	6 GHz WIFI MIMO	Max 5 GHz WIFI	Max 6 GHz WIFI	Max
Phablet	Back	0.737	0.249	1.013	0.228	0.336	0.369	1.013	0.369	1.013
	Front	0.555	0.186	0.809	0.144	0.033	0.240	0.809	0.240	0.809
	Top	0.188	0.121	0.271	0.050	0.147	0.080	0.271	0.147	0.271
	Bottom	-	-	-	-	-	-	-	-	-
	Right	-	0.148	0.141	-	0.008	0.014	0.148	0.014	0.148
	Left	1.016	-	1.207	0.423	-	0.665	1.207	0.665	1.207

Table 33
Phablet 2.4 GHz Bluetooth Highest Reported SAR

Bluetooth 10g Reported SAR (W/kg)				
	Configuration	I	MIMO	Max
Phablet	Back	0.143	0.312	0.312
	Front	0.477	0.221	0.477
	Top	0.000	0.103	0.103
	Bottom	-	-	-
	Right	0.121	0.026	0.121
	Left	-	0.338	0.338

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Table 34
Phablet AG Verification

	Configuration	AG0 SAR	AG1 SAR	AGa SAR	Bluetooth SAR	WPT	NFC SAR (W/kg)	AG0 + AGa + Bluetooth + WPT + NFC	AG1 + AGa + Bluetooth + WPT + NFC
Phablet	Back	-	-	1.013	0.312	0.000	0.012	1.337	1.337
	Front	-	-	0.809	0.447	0.000	0.000	1.256	1.256
	Top	-	2.200	0.271	0.103	0.000	0.000	0.374	2.574
	Bottom	1.302	-	-	-	0.000	0.000	1.302	-
	Right	-	-	0.148	0.121	0.000	0.000	0.269	0.269
	Left	-	-	1.207	0.338	0.000	0.000	1.545	1.545

Notes:

1. For all combinations where the sum of AG0/AG1+WLAN+BT+WPT+NFC is less than 4W/kg, there's no further analysis required for compliance demonstration.

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E.4.4 Volumetric SAR Evaluation and Analysis

Per KDB Publication 865664, when the sum of the transmitters potentially operating simultaneously is greater than the 1.6 W/kg and the sum to peak SAR location separation ratio between any pair of transmitters is more than 0.04 for 1g, SAR tests are required for simultaneous transmission to determine the aggregate 1g SAR. 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 collocated antenna pairs were performed for those body combos in section E.4.2 whose SPLSR is more than 0.04.

E.4.4.1 Back

Table 35
Enlarged Zoom Scans Measurements

Band/Mode	Antenna	Configuration	Frequency [MHz]	Measured Standalone 1g SAR [W/kg]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Maximum Allowed Power 2nd Ant [dBm]	Conducted Power 2nd Ant [dBm]	Duty Cycle (%)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Scaling Factor (Total)	Volumetric 1g SAR [W/kg]	Scaled Volumetric 1g SAR [W/kg]	Volumetric SAR Plot Number
NR Band n26	E	20 MHz Bandwidth CP-OFDM 1 RB 1 RB Offset	831.5	0.695	21.0	20.25	-	-	100.00	1.189	1.000	1.189	0.673	0.800	A61
NR Band n41 (Path 1)	F	100 MHz Bandwidth CP-OFDM 1 RB 1 RB Offset	2592.99	0.706	18.0	17.52	-	-	100.00	1.117	1.000	1.117	0.692	0.773	A62
NR Band n41 (Path 2)	E	100 MHz Bandwidth CW/SRS	2592.99	0.655	18.0	17.71	-	-	100.00	1.069	1.000	1.069	0.622	0.665	A63
NR Band n77	F	100 MHz Bandwidth DFT-s-OFDM 1 RB 1 RB Offset	3750	0.692	17.0	16.32	-	-	100.00	1.169	1.000	1.169	0.639	0.747	A64
2.4 GHz WIFI	I	22 MHz Bandwidth 802.11b DSSS	2437	0.246	16.0	15.31	-	-	98.86	1.172	1.012	1.186	0.221	0.262	A65
5 GHz WIFI	G	80 MHz Bandwidth 802.11ac OFDM	5290	0.254	12.5	11.53	-	-	95.91	1.250	1.043	1.303	0.229	0.298	A66
5 GHz WIFI	E	80 MHz Bandwidth 802.11ac OFDM	5855	0.289	12.5	10.87	-	-	95.86	1.455	1.043	1.518	0.313	0.475	A67
5 GHz WIFI	MIMO	80 MHz Bandwidth 802.11ac OFDM	5290	0.256	12.5	11.48	12.50	11.00	92.22	1.413	1.084	1.532	0.234	0.359	A68
6 GHz WIFI	E	160 MHz Bandwidth 802.11ax OFDM	6345	0.285	10.5	8.57	-	-	99.69	1.560	1.003	1.565	0.304	0.476	A69
6 GHz WIFI	MIMO	160 MHz Bandwidth 802.11ax OFDM	6025	0.257	10.5	9.91	10.50	8.65	99.63	1.531	1.004	1.537	0.268	0.412	A70
2.4 GHz Bluetooth LE	G	DSSS 1Mbps	2402	0.448	17.0	16.67	-	-	85.49	1.079	1.018	1.098	0.470	0.516	A71

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Table 36
Simultaneous Transmission SAR Analysis

Simultaneous Transmission Bands/Modes			Scaled Multi-Band SAR (W/kg)	Simultaneous SAR Plot Number
NR Band n26 Ant E	2.4 GHz WIFI Ant I	Bluetooth LE Ant G	0.815	A72
NR Band n26 Ant E	5 GHz WIFI Ant E	Bluetooth LE Ant G	0.906	A73
NR Band n77 Ant F	5 GHz WIFI Ant E	Bluetooth LE Ant G	0.806	A74
NR Band n26 Ant E	5 GHz WIFI MIMO	Bluetooth LE Ant G	0.964	A75
NR Band n77 Ant F	5 GHz WIFI MIMO	Bluetooth LE Ant G	0.963	A76
NR Band n41 Ant E	5 GHz WIFI Ant E	Bluetooth LE Ant G	0.964	A77
NR Band n41 Ant F	5 GHz WIFI Ant E	Bluetooth LE Ant G	0.932	A78
NR Band n26 Ant E	5 GHz WIFI Ant G	Bluetooth LE Ant G	0.984	A79
NR Band n77 Ant F	5 GHz WIFI Ant G	Bluetooth LE Ant G	1.020	A80
NR Band n41 Ant F	5 GHz WIFI Ant G	Bluetooth LE Ant G	1.050	A81
NR Band n41 Ant F	5 GHz WIFI MIMO	Bluetooth LE Ant G	1.060	A82
NR Band n26 Ant E	6 GHz WIFI Ant E	Bluetooth LE Ant G	0.902	A83
NR Band n77 Ant F	6 GHz WIFI Ant E	Bluetooth LE Ant G	0.816	A84
NR Band n26 Ant E	6 GHz WIFI MIMO	Bluetooth LE Ant G	0.891	A85
NR Band n77 Ant F	6 GHz WIFI MIMO	Bluetooth LE Ant G	0.980	A86
NR Band n41 Ant F	6 GHz WIFI Ant E	Bluetooth LE Ant G	0.941	A87
NR Band n41 Ant F	6 GHz WIFI MIMO	Bluetooth LE Ant G	0.960	A88
NR Band n41 Ant E	6 GHz WIFI Ant E	Bluetooth LE Ant G	0.930	A89

Notes:

1. All volumetric zoom scans were performed with cDASY6/DASY8 SAR system. cDASY6/DASY8 Post processing requires enlarged zoom scans to overlap but does not require measurement point resolutions within the volumes to be identical for interpolation and superposition.
2. Each antenna was evaluated independently using the channel/configuration that produced the highest measured SAR when the standalone SAR was tested.
3. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01. The simultaneous transmission SAR results of the individual transmitters were scaled using cDASY6/DASY8 Post processing.

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E.5 Unlicensed Highest Reported SAR and SAR Hotspot Locations

Table 37
Right Cheek SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord	Z-Coord
AGa	G	2.4 GHz WIFI	0.476	45.0	-330.2	-169.4
AGa	I	2.4 GHz WIFI	0.284	34.8	-265.5	-169.7
AGa	MIMO	2.4 GHz WIFI	0.508	43.5	-329.7	-169.6
AGa	E	5 GHz WIFI	0.153	6.6	-303.5	-167.7
AGa	G	5 GHz WIFI	0.435	29.5	-336.0	-169.3
AGa	MIMO	5 GHz WIFI	0.527	25.2	-334.4	-169.3
AGa	E	6 GHz WIFI	0.024	13.1	-307.8	-168.9
AGa	G	6 GHz WIFI	0.196	27.0	-334.6	-169.4
AGa	MIMO	6 GHz WIFI	0.335	23.6	-334.2	-169.3
N/A	G	2.4 GHz Bluetooth	0.326	43.0	-330.7	-169.5
N/A	I	2.4 GHz Bluetooth	0.300	31.3	-263.4	-168.6
N/A	MIMO	2.4 GHz Bluetooth	0.206	43.5	-329.7	-169.6

Table 38
Right Tilt SAR and Coordinates

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord	Z-Coord
AGa	G	2.4 GHz WIFI	0.188	18.4	-336.9	-168.9
AGa	I	2.4 GHz WIFI	0.034	30.3	-270.6	-169.0
AGa	MIMO	2.4 GHz WIFI	0.275	19.5	-336.6	-169.0
AGa	E	5 GHz WIFI	0.151	5.9	-306.2	-167.7
AGa	G	5 GHz WIFI	0.230	26.0	-336.0	-169.3
AGa	MIMO	5 GHz WIFI	0.347	23.6	-334.2	-169.3
AGa	E	6 GHz WIFI	0.024	-15.9	-315.1	-164.5
AGa	G	6 GHz WIFI	0.111	26.0	-336.0	-169.3
AGa	MIMO	6 GHz WIFI	0.203	22.0	-334.0	-169.2
N/A	G	2.4 GHz Bluetooth	0.178	18.9	-335.7	-169.0
N/A	I	2.4 GHz Bluetooth	0.034	22.1	-317.8	-170.0
N/A	MIMO	2.4 GHz Bluetooth	0.076	42.4	-327.6	-169.9

Table 39
Left Cheek SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AGa	G	2.4 GHz WIFI	0.114
AGa	I	2.4 GHz WIFI	0.445
AGa	MIMO	2.4 GHz WIFI	0.447
AGa	E	5 GHz WIFI	0.324
AGa	G	5 GHz WIFI	0.133
AGa	MIMO	5 GHz WIFI	0.362
AGa	E	6 GHz WIFI	0.024
AGa	G	6 GHz WIFI	0.050
AGa	MIMO	6 GHz WIFI	0.071
N/A	G	2.4 GHz Bluetooth	0.071
N/A	I	2.4 GHz Bluetooth	0.504
N/A	MIMO	2.4 GHz Bluetooth	0.243

Table 40
Left Tilt SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AGa	G	2.4 GHz WIFI	0.059
AGa	I	2.4 GHz WIFI	0.063
AGa	MIMO	2.4 GHz WIFI	0.114
AGa	E	5 GHz WIFI	0.246
AGa	G	5 GHz WIFI	0.118
AGa	MIMO	5 GHz WIFI	0.280
AGa	E	6 GHz WIFI	0.027
AGa	G	6 GHz WIFI	0.052
AGa	MIMO	6 GHz WIFI	0.091
N/A	G	2.4 GHz Bluetooth	0.065
N/A	I	2.4 GHz Bluetooth	0.071
N/A	MIMO	2.4 GHz Bluetooth	0.036

Table 41
Body-worn Back Side SAR and Coordinate

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord
AGa	G	2.4 GHz WIFI	0.361	-58.3	-46.1
AGa	I	2.4 GHz WIFI	0.296	-1.3	-54.2
AGa	MIMO	2.4 GHz WIFI	0.560	-57.8	-47.3
AGa	E	5 GHz WIFI	0.439	-12.1	-66.5
AGa	G	5 GHz WIFI	0.331	-62.2	-63.1
AGa	MIMO	5 GHz WIFI	0.392	-60.0	-63.9
AGa	E	6 GHz WIFI	0.446	-12.1	-65.4
AGa	G	6 GHz WIFI	0.139	-65.3	-61.1
AGa	MIMO	6 GHz WIFI	0.395	-11.0	-66.0
N/A	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6
N/A	I	2.4 GHz Bluetooth	0.231	3.6	-57.9
N/A	MIMO	2.4 GHz Bluetooth	0.277	-55.2	-56.4

Table 42
Hotspot Back Side SAR and Coordinate

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord
AGa	G	2.4 GHz WIFI	0.361	-58.3	-46.1
AGa	I	2.4 GHz WIFI	0.296	-1.3	-54.2
AGa	MIMO	2.4 GHz WIFI	0.560	-57.8	-47.3
AGa	E	5 GHz WIFI	0.254	-12.1	-65.4
AGa	G	5 GHz WIFI	0.189	-65.4	-62.4
AGa	MIMO	5 GHz WIFI	0.370	-12.1	-64.2
AGa	E	6 GHz WIFI	0.446	-12.1	-65.4
AGa	G	6 GHz WIFI	0.139	-65.3	-61.1
AGa	MIMO	6 GHz WIFI	0.395	-11.0	-66.0
N/A	G	2.4 GHz Bluetooth	0.492	-52.3	-45.6

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Table 43
Hotspot Front Side SAR and Coordinate

Antenna Group	Antenna	Mode/Band	Reported SAR	X-Coord	Y-Coord
AGa	G	2.4 GHz WIFI	0.244	13.8	-48.0
AGa	I	2.4 GHz WIFI	0.297	-60.6	-39.9
AGa	MIMO	2.4 GHz WIFI	0.389	-54.5	-33.6
AGa	E	5 GHz WIFI	0.129	-55.6	-65.5
AGa	G	5 GHz WIFI	0.181	10.0	-61.9
AGa	MIMO	5 GHz WIFI	0.236	7.1	-63.2
AGa	E	6 GHz WIFI	0.011	-23.8	-80.5
AGa	G	6 GHz WIFI	0.073	17.7	-62.3
AGa	MIMO	6 GHz WIFI	0.146	11.4	-53.0
N/A	G	2.4 GHz Bluetooth	0.391	20.3	-51.2

Table 44
Hotspot Right Edge SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AGa	I	2.4 GHz WIFI	0.034
AGa	MIMO	2.4 GHz WIFI	0.039
AGa	E	5 GHz WIFI	0.012
AGa	MIMO	5 GHz WIFI	0.011
AGa	E	6 GHz WIFI	0.003
AGa	MIMO	6 GHz WIFI	0.006

Table 45
Hotspot Left Edge SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AGa	G	2.4 GHz WIFI	0.213
AGa	MIMO	2.4 GHz WIFI	0.248
AGa	G	5 GHz WIFI	0.143
AGa	MIMO	5 GHz WIFI	0.202
AGa	G	6 GHz WIFI	0.083
AGa	MIMO	6 GHz WIFI	0.125
N/A	G	2.4 GHz Bluetooth	0.225

Table 46
Hotspot Top Edge SAR

Antenna Group	Antenna	Mode/Band	Reported SAR
AGa	G	2.4 GHz WIFI	0.075
AGa	I	2.4 GHz WIFI	0.000
AGa	MIMO	2.4 GHz WIFI	0.089
AGa	E	5 GHz WIFI	0.051
AGa	G	5 GHz WIFI	0.032
AGa	MIMO	5 GHz WIFI	0.064
AGa	E	6 GHz WIFI	0.047
AGa	G	6 GHz WIFI	0.016
AGa	MIMO	6 GHz WIFI	0.054
N/A	G	2.4 GHz Bluetooth	0.087

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E.6 Conclusion

All results are sufficient to show that AG0 is mutually exclusive from AG1 and that simultaneous transmission cases will not exceed the SAR limit and therefore no more measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D04v01 and IEEE 1528-2013 Section 6.3.4.1

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