

APPENDIX I: RU SAR EXCLUSION

I.1 IEEE 802.11ax/be RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax/be can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 52T+26T, 106T, 106T+26T, 242T, 484T, 484T+242T, 996T, 996T+484T, 996T+484T+242T, 996T*2, and for WIFI 6E additionally 996T*2+484T, 996T*3, 996T*3+484T, 996T*4.

Per FCC Guidance, 802.11ax/be was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax/be based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please refer to 1M2502210015-19, 21, 23, 25 for IEEE 802.11ax/be RU powers.

I.2 IEEE 802.11ax/be RU Target Powers

I.2.1 2.4 GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax
- DSI=1 (F/C Body)
- DSI=3 (Head)
- DSI=5 (F/C Grip)

Band		IEEE 802.11ax/be RU (in dBm)											
		SISO Ant H (in dBm)				SISO Ant F (in dBm)				Antenna H & Antenna F in MIMO			
		26T	52T, 52T + 26T	106T, 106T + 26T	242T	26T	52T, 52T + 26T	106T, 106T + 26T	242T	26T	52T, 52T + 26T	106T, 106T + 26T	242T
2.45 GHz	Maximum	14	15	16	18	14	15	16	18	14	15	16	18
					ch. 11: 17.5				ch. 11: 17.5				ch. 11: 17.5
	Nominal	13	14	15	17	13	14	15	17	13	14	15	17
					ch. 11: 16.5				ch. 11: 16.5				ch. 11: 16.5

The below table is applicable i in the following conditions:

- DSI=0 (F/O Body)
- DSI=4 (F/O Grip)

Band		IEEE 802.11ax/be RU (in dBm)											
		SISO Ant H (in dBm)				SISO Ant F (in dBm)				Antenna H & Antenna F in MIMO			
		26T	52T, 52T + 26T	106T, 106T + 26T	242T	26T	52T, 52T + 26T	106T, 106T + 26T	242T	52T, 52T + 26T	106T, 106T + 26T	106T	242T
2.45 GHz	Maximum	13	13	13	13	13	13	13	13	13	13	13	13
	Nominal	12	12	12	12	12	12	12	12	12	12	12	12

FCC ID A3LSMF966U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 1 of 5

I.2.2 5 GHz WLAN 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax
- DSI=3 (Head)

[illegible]

The below table is applicable in the following conditions:

- DSI=0 (F/O Body)
- DSI=4 (F/O Grip)

[illegible]

FCC ID A3LSMF966U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 2 of 5

- DSI=1 (F/C Body)
- DSI=5 (F/C Grip)

FCC ID A3LSMF966U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 3 of 5

I.2.3 6 GHz WLAN Maximum 802.11ax/be RU WLAN Output Power

The below table is applicable in the following conditions:

- Pmax
- DSI = 3 (F/C Head)

Mode		SSO										SSO										SSO										SSO									
		Activities 1										Activities 2										Activities 3										Activities 4									
		20T	5UT, 5UT + 20T	10UT, 10UT + 20T	20T	48T, 48T + 24T	96T, 96T + 48T	144T, 144T + 72T	192T, 192T + 96T	240T, 240T + 120T	96T/4	20T	5UT, 5UT + 20T	10UT, 10UT + 20T	20T	48T, 48T + 24T	96T, 96T + 48T	144T, 144T + 72T	192T, 192T + 96T	240T, 240T + 120T	96T/4	20T	5UT, 5UT + 20T	10UT, 10UT + 20T	20T	48T, 48T + 24T	96T, 96T + 48T	144T, 144T + 72T	192T, 192T + 96T	240T, 240T + 120T	96T/4										
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0						
5 G-Wave (SSB-W) - LPA	Maximum	0.0	0.0	0.0	0.0	11.0					0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						0.0	0.0	0.0	0.0	11.0						
5 G-Wave (SSB-W) - LPA	Normal	-1.0	-1.0	-1.0	-1.0	11.0					-1.0	-1.0	-1.0	-1.0	11.0						-1.0	-1.0	-1.0	-1.0	11.0																

The below table is applicable in the following conditions:

- DSI=0 (F/O Body)
- DSI=4 (F/O Grip)

[illegible]

FCC ID A3LSMF966U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 4 of 5

- DSI=1 (F/C Body)
- DSI=5 (F/C Grip)

FCC ID A3LSMF966U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX I: Page 5 of 5