

APPENDIX J: IEEE 802.11AX RU SAR EXCLUSION

J.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax 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, 106T, 242T, 484T and 996T.

Per FCC Guidance, 802.11ax 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 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.

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 1 of 17

J.2 IEEE 802.11ax RU Target Powers

J.2.1 Maximum 802.11ax RU WLAN Output Power

IEEE 802.11ax RU (in dBm)				
Tones	SISO Antenna 2		MIMO	
	2.4GHz		2.4GHz	
	Nominal	Maximum	Nominal	Maximum
26T	13.0	14.0	16.0	17.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
52T	15.0	16.0	18.0	19.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
106T	17.0	18.0	20.0	21.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
242T	17.0	18.0	20.0	21.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 2 of 17

IEEE 802.11ax RU (in dBm)								
MIMO								
Tones	5GHz 20MHz		5GHz 40MHz		5GHz 80MHz		5GHz 160MHz	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
52T	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
106T	18.0	19.0	18.0	19.0	18.0	19.0	18.0	19.0
242T	20.0	21.0	19.0	20.0	18.0 Ch. 42: 17.0	19.0 Ch. 42: 18.0	18.0	19.0
484T			19.0 Ch. 38: 17.5 Ch. 62: 18.5	20.0 Ch. 38: 18.5 Ch. 62: 19.5	18.0 Ch. 42: 17.5	19.0 Ch. 42: 18.5	18.0	19.0
996T					18.0	19.0	18.0	19.0
IEEE 802.11ax RU (in dBm)								
MIMO								
Tones	6GHz 20MHz		6GHz 40MHz		6GHz 80MHz		6GHz 160MHz	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0
52T	7.0 U-NII-5: 6.0	8.0 U-NII-5: 7.0	7.0 U-NII-5: 6.0	8.0 U-NII-5: 7.0	7.0 U-NII-5: 6.0	8.0 U-NII-5: 7.0	7.0 U-NII-5: 6.0	8.0 U-NII-5: 7.0
106T	10.0 U-NII-5: 8.0	11.0 U-NII-5: 9.0	10.0 U-NII-5: 8.0	11.0 U-NII-5: 9.0	10.0 U-NII-5: 8.0	11.0 U-NII-5: 9.0	10.0 U-NII-5: 8.0	11.0 U-NII-5: 9.0
242T	13.0 U-NII-5: 12.0	14.0 U-NII-5: 13.0	13.0 U-NII-5: 12.0	14.0 U-NII-5: 13.0	13.0 U-NII-5: 12.0	14.0 U-NII-5: 13.0	13.0 U-NII-5: 12.0	14.0 U-NII-5: 13.0
484T			13.0	14.0	13.0	14.0	13.0	14.0
996T					13.0	14.0	13.0	14.0

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 3 of 17

J.2.2 Reduced 802.11ax RU WLAN Output Power

The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN (RCV not Active)

IEEE 802.11ax RU (in dBm)				
Tones	SISO Antenna 2		MIMO	
	2.4GHz		2.4GHz	
	Nominal	Maximum	Nominal	Maximum
26T	13.0	14.0	16.0	17.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
52T	14.0	15.0	17.0	18.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
106T	14.0	15.0	17.0	18.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
242T	14.0	15.0	17.0	18.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 5/6 GHz WLAN

IEEE 802.11ax RU (in dBm)				
Tones	SISO Antenna 2		MIMO	
	2.4GHz		2.4GHz	
	Nominal	Maximum	Nominal	Maximum
26T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
52T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
106T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0
242T	12.0	13.0	15.0	16.0
	Ch. 12: 5.0	Ch. 12: 6.0	Ch. 12: 8.0	Ch. 12: 9.0
	Ch. 13: -1.0	Ch. 13: 0.0	Ch. 13: 2.0	Ch. 13: 3.0

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 4 of 17

The below table is applicable in the following conditions:
 • Simultaneous conditions with 2.4 GHz WLAN

IEEE 802.11ax RU (in dBm)								
MIMO								
Tones	5GHz 20MHz		5GHz 40MHz		5GHz 80MHz		5GHz 160MHz	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
52T	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0
106T	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
242T	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
484T			17.0	18.0	17.0	18.0	17.0	18.0
996T			17.0	18.0	17.0	18.0		

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 5 of 17

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 2.4 GHz WLAN

IEEE 802.11ax RU (in dBm)								
MIMO								
Tones	5GHz 20MHz		5GHz 40MHz		5GHz 80MHz		5GHz 160MHz	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
26T	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0
52T	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
106T	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
242T	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
484T			14.0	15.0	14.0	15.0	14.0	15.0
996T					14.0	15.0	14.0	15.0

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 6 of 17

J.3 IEEE 802.11ax Measured Powers

**Table J-1
Maximum 2.4 GHz 802.11ax RU Output Power – MIMO**

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]		Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	
				Antenna-2	MIMO					Antenna-2	MIMO
2412	1	26T	0	13.99	16.98	2412	1	52T	37	15.84	18.85
			4	13.98	16.91				38	15.81	18.80
			8	13.47	16.34				40	15.98	18.91
2437	6	26T	0	13.51	16.56	2437	6	52T	37	15.97	18.99
			4	13.70	16.71				38	15.66	18.74
			8	13.80	16.82				40	15.52	18.62
2462	11	26T	0	13.57	16.55	2462	11	52T	37	15.85	18.88
			4	13.69	16.57				38	15.99	18.92
			8	13.77	16.68				40	15.94	18.85
2467	12	26T	0	5.70	8.79	2467	12	52T	37	5.51	8.62
			4	5.99	8.90				38	5.71	8.68
			8	5.99	8.88				40	5.99	8.85
2472	13	26T	0	-0.35	2.36	2472	13	52T	37	-0.02	2.56
			4	-0.39	2.33				38	-0.08	2.54
			8	-0.38	2.34				40	-0.35	2.35

Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]		Freq [MHz]	Channel	Tones	RU Index	Conducted Power [dBm]	
				Antenna-2	MIMO					Antenna-2	MIMO
2412	1	106T	53	17.87	20.72	2412	1	242T	61	17.70	20.58
			54	17.96	20.82						
2437	6	106T	53	17.84	20.78	2437	6	242T	61	17.71	20.65
			54	17.91	20.88						
2462	11	106T	53	17.72	20.66	2462	11	242T	61	17.56	20.43
			54	17.94	20.79						
2467	12	106T	53	5.98	8.98	2467	12	242T	61	5.84	8.77
			54	5.99	8.86						
2472	13	106T	53	-0.25	2.41	2472	13	242T	61	-0.04	2.55
			54	-0.13	2.52						

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 7 of 17

**Table J-2
Maximum 5 GHz 802.11ax RU Output Power – MIMO**

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 4	RU Index: 8
					MIMO	MIMO	MIMO
					1	5180	36
	5200	40	26T	13.73	13.71	13.59	
	5240	48	26T	13.91	13.82	13.76	
2A	5260	52	26T	13.64	13.65	13.62	
	5280	56	26T	13.68	13.66	13.59	
	5320	64	26T	13.45	13.58	13.60	
2C	5500	100	26T	13.78	13.76	13.77	
	5600	120	26T	13.74	13.76	13.80	
	5720	144	26T	13.73	13.66	13.75	
3	5745	149	26T	13.65	13.64	13.70	
	5785	157	26T	13.57	13.67	13.60	
	5825	165	26T	13.73	13.75	13.71	
4	5845	169	26T	13.70	13.71	13.64	
	5865	173	26T	13.49	13.50	13.46	
	5885	177	26T	13.80	13.77	13.72	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 39	RU Index: 40
					MIMO	MIMO	MIMO
					1	5180	36
	5200	40	52T	16.94	16.73	16.91	
	5240	48	52T	16.98	16.72	16.93	
2A	5260	52	52T	16.96	16.70	16.93	
	5280	56	52T	16.92	16.66	16.88	
	5320	64	52T	16.54	16.68	16.49	
2C	5500	100	52T	16.81	16.63	16.82	
	5600	120	52T	16.40	16.93	16.45	
	5720	144	52T	16.51	16.71	16.54	
3	5745	149	52T	16.43	16.62	16.45	
	5785	157	52T	16.91	16.70	16.93	
	5825	165	52T	16.47	16.65	16.86	
4	5845	169	52T	16.80	16.57	16.77	
	5865	173	52T	16.39	16.60	16.29	
	5885	177	52T	16.59	16.73	16.53	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 53	RU Index: 54						RU Index: 61
					MIMO	MIMO						MIMO
					1	5180						36
	5200	40	106T	18.86	18.78		5200	40	242T	20.71		
	5240	48	106T	18.66	18.93		5240	48	242T	20.46		
2A	5260	52	106T	18.83	18.77	2A	5260	52	242T	20.33		
	5280	56	106T	18.81	18.78		5280	56	242T	20.33		
	5320	64	106T	18.75	18.70		5320	64	242T	20.62		
2C	5500	100	106T	18.81	18.81	2C	5500	100	242T	20.72		
	5600	120	106T	18.89	18.90		5600	120	242T	20.75		
	5720	144	106T	18.80	18.78		5720	144	242T	20.71		
3	5745	149	106T	18.69	18.69	3	5745	149	242T	20.60		
	5785	157	106T	18.79	18.80		5785	157	242T	20.75		
	5825	165	106T	18.82	18.79		5825	165	242T	20.73		
4	5845	169	106T	18.76	18.72	4	5845	169	242T	20.63		
	5865	173	106T	18.58	18.58		5865	173	242T	20.85		
	5885	177	106T	18.43	18.39		5885	177	242T	20.54		

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 8 of 17

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 8	RU Index: 17
					MIMO	MIMO	MIMO
					1	5190	38
1	5230	46	26T	13.59	13.28	13.46	
2A	5270	54	26T	13.55	13.45	13.56	
2A	5310	62	26T	13.69	13.29	13.51	
2C	5510	102	26T	13.60	13.57	13.79	
2C	5590	118	26T	13.62	13.37	13.65	
2C	5710	142	26T	13.63	13.46	13.68	
3	5755	151	26T	13.57	13.32	13.63	
3	5795	159	26T	13.64	13.33	13.59	
4	5835	167	26T	13.56	13.33	13.50	
4	5875	175	26T	13.67	13.33	13.56	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 40	RU Index: 44
					MIMO	MIMO	MIMO
					1	5190	38
1	5230	46	52T	16.80	16.90	16.67	
2A	5270	54	52T	16.97	16.73	16.88	
2A	5310	62	52T	16.94	16.73	16.88	
2C	5510	102	52T	16.85	16.66	16.85	
2C	5590	118	52T	16.45	16.96	16.48	
2C	5710	142	52T	16.59	16.82	16.65	
3	5755	151	52T	16.69	16.92	16.72	
3	5795	159	52T	16.66	16.83	16.68	
4	5835	167	52T	16.51	16.71	16.89	
4	5875	175	52T	16.69	16.42	16.62	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	RU Index: 56
					MIMO	MIMO	MIMO
					1	5190	38
1	5230	46	106T	18.61	18.79	18.86	
2A	5270	54	106T	18.83	18.69	18.70	
2A	5310	62	106T	18.71	18.57	18.66	
2C	5510	102	106T	18.79	18.60	18.77	
2C	5590	118	106T	18.95	18.77	18.53	
2C	5710	142	106T	18.83	18.68	18.90	
3	5755	151	106T	18.91	18.78	18.88	
3	5795	159	106T	18.79	18.61	18.77	
4	5835	167	106T	18.85	18.64	18.77	
4	5875	175	106T	18.97	18.73	18.85	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 61	RU Index: 62						RU Index: 65
					MIMO	MIMO						MIMO
					1	5190						38
1	5230	46	242T	19.69	19.62	19.74						
2A	5270	54	242T	19.65	19.59	19.67						
2A	5310	62	242T	19.60	19.52	19.47						
2C	5510	102	242T	19.61	19.58	19.68						
2C	5590	118	242T	19.66	19.65	19.74						
2C	5710	142	242T	19.64	19.69	19.71						
3	5755	151	242T	19.71	19.70	19.73						
3	5795	159	242T	19.61	19.63	19.65						
4	5835	167	242T	19.64	19.60	19.64						
4	5875	175	242T	19.74	19.67	19.70						

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
1	5210	42	26T	13.97	13.54	13.55	
2A	5290	58	26T	13.72	13.36	13.47	
2C	5530	106	26T	13.54	13.66	13.91	
	5610	122	26T	13.35	13.50	13.84	
	5690	138	26T	13.77	13.57	13.87	
3	5775	155	26T	13.52	13.35	13.50	
4	5855	171	26T	13.59	13.36	13.43	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
1	5210	42	52T	16.59	16.70	16.69	
2A	5290	58	52T	16.71	16.84	16.93	
2C	5530	106	52T	16.82	16.66	16.85	
	5610	122	52T	16.48	16.29	16.54	
	5690	138	52T	16.41	16.79	16.99	
3	5775	155	52T	16.65	16.53	16.71	
4	5855	171	52T	16.52	16.65	16.73	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
1	5210	42	106T	18.77	18.84	18.87	
2A	5290	58	106T	18.66	18.71	18.73	
2C	5530	106	106T	18.60	18.84	18.63	
	5610	122	106T	18.89	18.73	18.59	
	5690	138	106T	18.62	18.97	18.69	
3	5775	155	106T	18.87	18.71	18.86	
4	5855	171	106T	18.76	18.52	18.58	
80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
1	5210	42	242T	17.94	17.79	17.69	
2A	5290	58	242T	18.61	18.71	18.69	
2C	5530	106	242T	18.95	18.87	18.57	
	5610	122	242T	18.83	18.75	18.83	
	5690	138	242T	18.57	18.89	18.62	
3	5775	155	242T	18.77	18.67	18.74	
4	5855	171	242T	18.68	18.54	18.50	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 65	RU Index: 66						RU Index: 67
					MIMO	MIMO						MIMO
1	5210	42	484T	18.42	18.41	1	5210	42	996T	18.87		
2A	5290	58	484T	18.77	18.62	2A	5290	58	996T	18.69		
2C	5530	106	484T	18.89	18.84	2C	5530	106	996T	18.83		
	5610	122	484T	18.77	18.79		5610	122	996T	18.74		
	5690	138	484T	18.50	18.54		5690	138	996T	18.95		
3	5775	155	484T	18.70	18.68	3	5775	155	996T	18.67		
4	5855	171	484T	18.60	18.97	4	5855	171	996T	18.45		

160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Target	PLS
					RU Index: 0	RU Index: 18	RU Index: 36		
					MIMO	MIMO	MIMO		
1/2A	5250	50	26T	13.69	13.74	13.85	13.0	10/9.5/10	
2C	5570	114	26T	13.75	13.50	13.42	13.0	9.5/9/9	
3/4	5815	163	26T	13.59	13.47	13.43	13.0	10/9.5/9.5	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Target	PLS
					RU Index: 37	RU Index: 44	RU Index: 52		
					MIMO	MIMO	MIMO		
1/2A	5250	50	52T	16.55	16.53	16.80	16.0	12.5/12.5/13	
2C	5570	114	52T	16.34	16.47	16.30	16.0	12.0	
3/4	5815	163	52T	16.73	16.53	16.41	16.0	12.5	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Target	PLS
					RU Index: 53	RU Index: 56	RU Index: 60		
					MIMO	MIMO	MIMO		
1/2A	5250	50	106T	18.93	18.95	18.69	18.0	15.0	
2C	5570	114	106T	18.54	18.53	18.39	18.0	14.5	
3/4	5815	163	106T	18.52	18.57	18.47	18.0	15.0	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)			Target	PLS
					RU Index: 61	RU Index: 62	RU Index: 64		
					MIMO	MIMO	MIMO		
1/2A	5250	50	242T	18.74	18.99	18.77	18.0	14.5/15/15	
2C	5570	114	242T	18.25	18.22	18.40	18.0	14/14/14.5	
3/4	5815	163	242T	18.64	18.66	18.46	18.0	15.0	

160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 65	RU Index: 66						RU Index: 67	
					MIMO	MIMO						MIMO	
1/2A	5250	50	484T	18.97	18.78	1/2A	5250	50	996T	18.78			
2C	5570	114	484T	18.58	18.40	2C	5570	114	996T	18.37			
3/4	5815	163	484T	18.55	18.43	3/4	5815	163	996T	18.41			

160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
1/2A	5250	50	26T	13.83	13.84	13.78	
2C	5570	114	26T	13.33	13.51	13.45	
3/4	5815	163	26T	13.38	13.61	13.52	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
1/2A	5250	50	52T	16.86	16.81	16.78	
2C	5570	114	52T	16.69	16.77	16.87	
3/4	5815	163	52T	16.81	16.93	16.94	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
1/2A	5250	50	106T	18.76	18.75	18.71	
2C	5570	114	106T	18.40	18.57	18.60	
3/4	5815	163	106T	18.52	18.63	18.63	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
1/2A	5250	50	242T	18.75	18.72	18.83	
2C	5570	114	242T	18.48	18.54	18.68	
3/4	5815	163	242T	18.55	18.63	18.67	

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 11 of 17

160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 65	RU Index: 66
					MIMO	MIMO
					1/2A	5250
2C	5570	114	484T	18.44	18.57	
3/4	5815	163	484T	18.54	18.64	

160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 67	
					MIMO	
					1/2A	5250
2C	5570	114	996T	18.44		
3/4	5815	163	996T	18.48		

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 12 of 17

**Table J-3
Maximum 6 GHz 802.11ax RU Output Power – MIMO**

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 4	RU Index: 8
					MIMO	MIMO	MIMO
5	5935	2	26T	4.00	4.03	4.00	
	6175	45	26T	4.48	4.21	4.49	
	6415	93	26T	4.46	4.33	4.26	
6	6435	97	26T	4.76	4.41	4.84	
	6475	105	26T	4.71	4.32	4.72	
	6515	113	26T	4.64	4.32	4.79	
7	6535	117	26T	4.74	4.27	4.68	
	6695	149	26T	4.89	4.31	4.73	
	6875	185	26T	4.49	4.63	4.51	
8	6895	189	26T	4.92	4.47	4.91	
	6995	209	26T	4.81	4.34	4.76	
	7115	233	26T	4.49	4.13	4.51	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 38	RU Index: 40
					MIMO	MIMO	MIMO
5	5935	2	52T	6.27	6.11	6.25	
	6175	45	52T	6.11	6.06	6.20	
	6415	93	52T	6.17	6.02	6.28	
6	6435	97	52T	7.98	7.77	7.98	
	6475	105	52T	7.84	7.73	7.94	
	6515	113	52T	7.33	7.10	7.31	
7	6535	117	52T	7.74	7.49	7.64	
	6695	149	0.82	7.68	7.44	7.63	
	6875	185	52T	7.99	7.81	7.98	
8	6895	189	52T	7.06	7.85	7.01	
	6995	209	52T	7.95	7.94	7.90	
	7115	233	52T	7.17	7.03	7.11	

20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		20MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54							RU Index: 61	
					MIMO	MIMO								MIMO
5	5935	2	106T	8.13	8.17	5	5935	2	242T	12.60				
	6175	45	106T	8.68	8.65		6175	45	242T	12.54				
	6415	93	106T	8.67	8.77		6415	93	242T	12.63				
6	6435	97	106T	10.89	10.89	6	6435	97	242T	13.54				
	6475	105	106T	10.80	10.96		6475	105	242T	13.44				
	6515	113	106T	10.19	10.18		6515	113	242T	13.31				
7	6535	117	106T	10.59	10.56	7	6535	117	242T	13.24				
	6695	149	106T	10.98	10.91		6695	149	242T	13.55				
	6875	185	106T	10.61	10.56		6875	185	242T	13.10				
8	6895	189	106T	10.59	10.55	8	6895	189	242T	13.09				
	6995	209	106T	10.84	10.76		6995	209	242T	13.76				
	7115	233	106T	10.66	10.57		7115	233	242T	13.72				

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 8	RU Index: 17
					MIMO	MIMO	MIMO
5	5965	3	26T	4.56	4.33	4.52	
	6165	43	26T	4.74	4.59	4.85	
	6405	91	26T	4.34	4.67	4.48	
6	6445	99	26T	4.76	4.61	4.89	
	6485	107	26T	4.79	4.56	4.86	
	6525	115	26T	4.64	4.44	4.58	
7	6565	123	26T	4.77	4.53	4.73	
	6725	155	26T	4.76	4.51	4.71	
	6845	179	26T	4.51	4.32	4.51	
8	6885	187	26T	4.71	4.32	4.55	
	7005	211	26T	4.88	4.58	4.80	
	7085	227	26T	4.66	4.34	4.43	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 40	RU Index: 44
					MIMO	MIMO	MIMO
5	5965	3	52T	6.68	6.69	6.44	
	6165	43	52T	6.12	6.41	6.43	
	6405	91	52T	6.15	6.16	6.12	
6	6445	99	52T	7.97	7.88	7.99	
	6485	107	52T	7.45	7.21	7.54	
	6525	115	52T	7.51	7.23	7.40	
7	6565	123	52T	7.97	7.72	7.89	
	6725	155	52T	7.98	7.75	7.88	
	6845	179	52T	7.01	7.94	7.98	
8	6885	187	52T	7.06	7.97	7.95	
	7005	211	52T	7.14	7.06	7.01	
	7085	227	52T	7.98	7.98	7.99	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 54	RU Index: 56
					MIMO	MIMO	MIMO
5	5965	3	106T	8.69	8.74	8.63	
	6165	43	106T	8.29	8.61	8.82	
	6405	91	106T	8.40	8.13	8.39	
6	6445	99	106T	10.63	10.43	10.58	
	6485	107	106T	10.36	10.18	10.36	
	6525	115	106T	10.76	10.61	10.71	
7	6565	123	106T	10.83	10.70	10.82	
	6725	155	106T	10.98	10.78	10.83	
	6845	179	106T	10.80	10.58	10.61	
8	6885	187	106T	10.78	10.56	10.58	
	7005	211	106T	10.97	10.78	10.87	
	7085	227	106T	10.49	10.28	10.30	

40MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 61	RU Index: 62					RU Index: 65
					MIMO	MIMO					MIMO
5	5965	3	242T	12.38	12.56	5	5965	3	484T	13.64	
	6165	43	242T	12.85	12.56		6165	43	484T	13.52	
	6405	91	242T	12.30	12.37		6405	91	484T	13.87	
6	6445	99	242T	13.54	13.48	6	6445	99	484T	13.67	
	6485	107	242T	13.29	13.34		6485	107	484T	13.45	
	6525	115	242T	13.27	13.23		6525	115	484T	13.41	
7	6565	123	242T	13.36	13.33	7	6565	123	484T	13.40	
	6725	155	242T	13.48	13.39		6725	155	484T	13.53	
	6845	179	242T	13.66	13.53		6845	179	484T	13.66	
8	6885	187	242T	13.62	13.56	8	6885	187	484T	13.57	
	7005	211	242T	13.84	13.71		7005	211	484T	13.63	
	7085	227	242T	13.99	13.87		7085	227	484T	13.98	

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 14 of 17

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
5	5985	7	26T	4.97	4.49	4.76	
	6145	39	26T	4.81	4.38	4.67	
	6385	87	26T	4.56	4.37	4.75	
6	6465	103	26T	4.50	4.36	4.69	
	6545	119	26T	4.48	4.10	4.42	
7	6705	151	26T	4.85	4.53	4.70	
	6865	183	26T	4.52	4.05	4.18	
	6945	199	26T	4.48	4.18	4.25	
8	7025	215	26T	4.54	4.26	4.49	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
5	5985	7	52T	6.57	6.32	6.39	
	6145	39	52T	6.56	6.42	6.74	
	6385	87	52T	7.14	6.94	7.21	
6	6465	103	52T	7.87	7.98	7.98	
	6545	119	52T	7.97	7.89	7.99	
7	6705	151	52T	7.99	7.75	7.83	
	6865	183	52T	7.18	7.03	7.05	
	6945	199	52T	7.98	7.99	7.98	
8	7025	215	52T	7.66	7.26	7.44	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
5	5985	7	106T	8.64	8.77	8.90	
	6145	39	106T	8.88	8.71	8.93	
	6385	87	106T	8.82	8.92	8.88	
6	6465	103	106T	10.60	10.41	10.63	
	6545	119	106T	10.49	10.24	10.43	
7	6705	151	106T	10.87	10.61	10.67	
	6865	183	106T	10.22	10.58	10.55	
	6945	199	106T	10.54	10.21	10.19	
8	7025	215	106T	10.99	10.69	10.80	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
5	5985	7	242T	12.52	12.26	12.46	
	6145	39	242T	12.48	12.30	12.45	
	6385	87	242T	12.71	12.62	12.86	
6	6465	103	242T	13.71	13.55	13.73	
	6545	119	242T	13.59	13.43	13.53	
7	6705	151	242T	13.94	13.77	13.71	
	6865	183	242T	13.88	13.65	13.58	
	6945	199	242T	13.89	13.68	13.63	
8	7025	215	242T	13.59	13.38	13.49	

80MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 65	RU Index: 66					RU Index: 67	
					MIMO	MIMO						MIMO
5	5985	7	484T	13.49	13.45	5	5985	7	996T	13.42		
	6145	39	484T	13.52	13.49		6145	39	996T	13.44		
	6385	87	484T	13.83	13.90		6385	87	996T	13.78		
6	6465	103	484T	13.97	13.99	6	6465	103	996T	13.98		
	6545	119	484T	13.53	13.46		6545	119	996T	13.42		
7	6705	151	484T	13.82	13.62	7	6705	151	996T	13.74		
	6865	183	484T	13.27	13.03		6865	183	996T	13.11		
	6945	199	484T	13.84	13.62		6945	199	996T	13.71		
8	7025	215	484T	13.49	13.39	8	7025	215	996T	13.40		

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 15 of 17

160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
5	6025	15	26T	4.86	4.67	4.58	
	6185	47	26T	4.71	4.77	4.61	
	6345	79	26T	4.24	4.26	4.61	
6	6505	111	26T	4.84	4.89	4.84	
7	6665	143	26T	4.68	4.54	4.20	
	6825	175	26T	4.55	4.51	4.33	
8	6985	207	26T	4.77	4.63	4.38	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
5	6025	15	52T	6.29	6.11	6.06	
	6185	47	52T	6.05	6.43	6.29	
	6345	79	52T	6.45	6.31	6.43	
6	6505	111	52T	7.67	7.79	7.77	
7	6665	143	52T	7.97	7.98	7.51	
	6825	175	52T	7.33	7.17	7.77	
8	6985	207	52T	7.50	7.38	7.27	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
5	6025	15	106T	8.75	8.72	8.66	
	6185	47	106T	8.56	8.56	8.37	
	6345	79	106T	8.65	8.81	8.80	
6	6505	111	106T	10.68	10.75	10.59	
7	6665	143	106T	10.98	10.90	10.18	
	6825	175	106T	10.80	10.66	10.27	
8	6985	207	106T	10.96	10.71	10.48	
160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
5	6025	15	242T	12.74	12.63	12.29	
	6185	47	242T	12.50	12.40	12.37	
	6345	79	242T	12.28	12.20	12.15	
6	6505	111	242T	13.41	13.46	13.32	
7	6665	143	242T	13.75	13.67	13.02	
	6825	175	242T	13.91	13.80	13.36	
8	6985	207	242T	13.99	13.87	13.56	

160MHz BW	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 65	RU Index: 66
					MIMO	MIMO
5	6025	15	484T	13.82	13.49	
	6185	47	484T	13.54	13.25	
	6345	79	484T	13.31	13.22	
6	6505	111	484T	13.39	13.34	
7	6665	143	484T	13.59	13.09	
	6825	175	484T	13.80	13.43	
8	6985	207	484T	13.85	13.54	

160MHz BW 80L	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)
					RU Index: 67
					MIMO
5	6025	15	996T	13.57	
	6185	47	996T	13.30	
	6345	79	996T	13.18	
6	6505	111	996T	13.25	
7	6665	143	996T	13.78	
	6825	175	996T	13.51	
8	6985	207	996T	13.61	

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 16 of 17

160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 0	RU Index: 18	RU Index: 36
					MIMO	MIMO	MIMO
5	6025	15	26T	4.63	4.82	4.56	
	6185	47	26T	4.46	4.75	4.98	
	6345	79	26T	4.51	4.73	4.80	
6	6505	111	26T	4.75	4.65	4.66	
	6665	143	26T	4.23	4.26	4.28	
7	6825	175	26T	4.26	4.43	4.29	
	6985	207	26T	4.67	4.84	4.61	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 37	RU Index: 44	RU Index: 52
					MIMO	MIMO	MIMO
5	6025	15	52T	6.49	6.45	6.38	
	6185	47	52T	6.41	6.31	6.16	
	6345	79	52T	6.98	6.42	6.52	
6	6505	111	52T	7.45	7.27	7.43	
	6665	143	52T	7.90	7.89	7.99	
7	6825	175	52T	7.81	7.99	7.86	
	6985	207	52T	7.36	7.49	7.32	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 53	RU Index: 56	RU Index: 60
					MIMO	MIMO	MIMO
5	6025	15	106T	8.73	8.78	8.78	
	6185	47	106T	8.54	8.76	8.94	
	6345	79	106T	8.66	8.72	8.89	
6	6505	111	106T	10.70	10.50	10.62	
	6665	143	106T	10.69	10.65	10.80	
7	6825	175	106T	10.45	10.55	10.51	
	6985	207	106T	10.63	10.67	10.59	
160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		
					RU Index: 61	RU Index: 62	RU Index: 64
					MIMO	MIMO	MIMO
5	6025	15	242T	12.66	12.69	12.66	
	6185	47	242T	12.56	12.70	12.99	
	6345	79	242T	12.66	12.77	12.98	
6	6505	111	242T	13.35	13.24	13.40	
	6665	143	242T	13.85	13.78	13.92	
7	6825	175	242T	13.41	13.50	13.47	
	6985	207	242T	13.60	13.61	13.59	

160MHz BW 80U	Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)		Band	Freq [MHz]	Channel	Tones	Average Conducted Power (dBm)	
					RU Index: 65	RU Index: 66					RU Index: 67	
					MIMO	MIMO						MIMO
5	6025	15	484T	13.41	13.41	5	6025	15	996T	13.29		
	6185	47	484T	13.39	13.76		6185	47	996T	13.49		
	6345	79	484T	13.43	13.66		6345	79	996T	13.49		
6	6505	111	484T	13.20	13.24	6	6505	111	996T	13.15		
	6665	143	484T	13.77	13.90		6665	143	996T	13.71		
7	6825	175	484T	13.37	13.46	7	6825	175	996T	13.35		
	6985	207	484T	13.58	13.57		6985	207	996T	13.50		

FCC ID: A3LSMF936JPN	SAR EVALUATION REPORT	Approved by: Technical Manager
DUT Type: Portable Handset		APPENDIX J: Page 17 of 17