



Pioneers in Wireless Testing and Certification

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To Whom It May Concern:

We confirm that the additional 5.825 GHz operations for **FCC ID: A3LSGHI997** do not require additional SAR tests based on KDB 248227 pub 802.11 SAR test requirements since on the output power measurements for channel 165 are lower than the tested channel of 161.

Within the 5.745-5.825 GHz band of operation, 5.805 GHz was tested for SAR. Since the SAR was below 0.8 W/kg (0.2 W/kg) for 5.805 GHz, SAR was only required on the highest output power channel per KDB 248227. Based on the below output power measurements for 802.11a/n, the SAR results from the original certification that was submitted remain applicable for this permissive change.

Mode	Freq [MHz]	Channel	Conducted Power [dBm]							
			Data Rate [Mbps]							
			6	9	12	18	24	36	48	54
802.11a	5180	36	12.94	12.85	12.93	12.92	12.92	12.73	12.84	12.83
802.11a	5200	40	12.93	13.01	12.97	12.94	12.84	12.93	12.97	12.99
802.11a	5220	44	12.96	12.92	12.89	12.95	12.99	13.04	12.97	12.99
802.11a	5240	48	13.03	12.64	12.63	12.56	12.62	12.37	12.41	12.29
802.11a	5260	52	13.02	13.01	13.04	12.96	12.99	13.06	13.02	13.11
802.11a	5280	56	12.67	12.62	12.74	12.64	12.69	12.65	12.72	12.61
802.11a	5300	60	12.15	12.19	12.13	12.28	12.24	12.24	12.19	12.05
802.11a	5320	64	12.20	12.26	12.23	12.05	12.12	12.17	12.27	12.24
802.11a	5500	100	12.56	12.52	12.58	12.53	12.46	12.42	12.58	12.52
802.11a	5520	104	13.02	13.19	13.02	13.08	13.15	13.02	13.04	13.04
802.11a	5540	108	12.96	13.04	12.97	12.92	12.86	12.99	12.95	12.93
802.11a	5560	112	13.05	13.01	13.05	12.96	12.98	13.06	13.01	13.02
802.11a	5580	116	13.14	13.09	13.21	13.21	13.09	13.11	13.12	13.21
802.11a	5600	120	13.15	13.16	13.18	13.06	13.08	13.16	13.21	13.18
802.11a	5620	124	13.06	13.12	13.14	13.07	13.09	13.12	13.18	13.06
802.11a	5640	128	13.24	13.32	13.36	13.33	13.31	13.26	13.36	13.27
802.11a	5660	132	13.20	13.22	13.17	13.14	13.11	13.24	13.21	13.17
802.11a	5680	136	13.27	13.22	13.25	13.18	13.14	13.21	13.26	13.23
802.11a	5700	140	13.47	13.51	13.48	13.61	13.41	13.24	13.57	13.49
802.11a	5745	149	13.12	13.13	13.21	13.24	13.05	13.02	13.24	13.16
802.11a	5765	153	13.08	13.13	13.14	13.19	13.13	13.02	13.13	13.12
802.11a	5785	157	13.26	13.37	13.34	13.58	13.42	13.33	13.51	13.48
802.11a	5805	161	13.45	13.54	13.42	13.51	13.49	13.57	13.34	13.53
802.11a	5825	165	11.28	11.24	11.37	10.91	11.06	11.00	11.09	11.11

Mode	Freq [MHz]	Channel	Conducted Power [dBm]							
			Data Rate [Mbps]							
			6.5	13	20	26	39	52	58	65
802.11n	5180	36	11.53	11.44	11.54	11.71	11.61	11.58	11.63	11.57
802.11n	5200	40	11.48	11.45	11.42	11.52	11.53	11.42	11.57	11.50
802.11n	5220	44	11.35	11.33	11.37	11.29	11.31	11.34	11.32	11.33
802.11n	5240	48	11.24	11.13	11.17	11.26	11.23	11.36	11.54	11.36
802.11n	5260	52	11.26	11.27	11.21	11.23	11.28	11.24	11.30	11.17
802.11n	5280	56	11.29	11.24	11.27	11.22	11.21	11.26	11.27	11.31
802.11n	5300	60	11.22	11.19	11.21	11.15	11.32	11.26	11.23	11.17
802.11n	5320	64	11.45	11.42	11.41	11.37	11.38	11.32	11.36	11.41
802.11n	5500	100	11.69	11.66	11.57	11.59	11.52	11.62	11.60	11.58
802.11n	5520	104	12.12	12.03	12.21	12.11	12.24	12.08	12.13	12.04
802.11n	5540	108	12.05	12.11	12.09	12.03	12.11	12.05	12.14	12.15
802.11n	5560	112	12.18	12.13	12.16	12.18	12.21	12.25	12.29	12.24
802.11n	5580	116	12.21	12.16	12.23	12.12	12.26	12.27	12.19	12.11
802.11n	5600	120	12.20	12.23	12.25	12.16	12.11	12.17	12.28	12.25
802.11n	5620	124	12.23	12.20	12.16	12.14	12.26	12.23	12.28	12.23
802.11n	5640	128	12.21	12.19	12.37	12.37	12.39	12.41	12.44	12.41
802.11n	5660	132	12.20	12.23	12.26	12.21	12.15	12.18	12.25	12.23
802.11n	5680	136	12.27	12.24	12.26	12.17	12.14	12.28	12.22	12.21
802.11n	5700	140	12.34	12.26	12.46	12.27	12.41	12.43	12.41	12.51
802.11n	5745	149	11.97	11.89	12.03	12.02	12.02	12.23	12.09	12.03
802.11n	5765	153	12.02	12.00	12.09	12.06	12.03	12.10	12.05	12.04
802.11n	5785	157	12.28	12.14	12.29	12.23	12.27	12.23	12.36	12.26
802.11n	5805	161	12.46	12.28	12.36	12.43	12.36	12.44	12.38	12.52
802.11n	5825	165	10.97	10.96	11.16	10.71	10.75	10.82	10.74	10.86

Please contact us if there are any questions about this RF Exposure determination.

Best Regards,

Randy Ortanez



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CTIA Authorized Test Lab

LAB CODE 20020221-00



TCB/CAB/FCB

n.b. 0002



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