

## Appendix H. SAR Test Result

SAR Results for Body Exposure Condition.

**Note:**

1. SAR testing for WLAN was performed on the maximum power mode.
2. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.
3. All testing was done at SISO powers and MIMO modes will operate at the same or lower power per chain than SISO

## Body SAR Test Result (Low Power Mode)

System & Position						DUT & Accessory		SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Keyboard	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	-0.03	0.962	0.97
	WLAN2.4G	802.11b	Left Side	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	0.08	0.076	0.08
	WLAN2.4G	802.11b	Right Side	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	0.09	0.032	0.03
	WLAN2.4G	802.11b	Top Side	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	-0.02	0.229	0.23
	WLAN2.4G	802.11b	Top curve	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	-0.07	0.315	0.32
	WLAN2.4G	802.11b	Bottom Side	0	6	Ant 1	w/o	99.00	1.01	11.00	10.98	1.00	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	0.02	1.1	1.16
	WLAN2.4G	802.11b	Left Side	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	0.06	0.013	0.01
	WLAN2.4G	802.11b	Right Side	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	-0.05	0.089	0.09
	WLAN2.4G	802.11b	Top Side	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	-0.07	0.171	0.18
	WLAN2.4G	802.11b	Top curve	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	-0.04	0.175	0.18
	WLAN2.4G	802.11b	Bottom Side	0	1	Ant 2	w/o	99.00	1.01	11.00	10.81	1.04	0	<0.001	0.00
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 1	w/o	99.00	1.01	11.00	10.86	1.03	-0.13	0.869	0.90
	WLAN2.4G	802.11b	Rear Face	0	11	Ant 1	w/o	99.00	1.01	11.00	10.73	1.06	0.14	0.887	0.95
	WLAN2.4G	802.11b	Rear Face	0	12	Ant 1	w/o	99.00	1.01	11.00	10.71	1.07	0.19	0.417	0.45
	WLAN2.4G	802.11b	Rear Face	0	13	Ant 1	w/o	99.00	1.01	11.00	10.81	1.04	-0.05	0.168	0.18
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 2	w/o	99.00	1.01	11.00	10.83	1.04	0.14	1.1	1.16
1	WLAN2.4G	802.11b	Rear Face	0	11	Ant 2	w/o	99.00	1.01	11.00	10.97	1.01	0.1	1.15	1.17
	WLAN2.4G	802.11b	Rear Face	0	12	Ant 2	w/o	99.00	1.01	11.00	10.83	1.04	-0.18	0.479	0.50
	WLAN2.4G	802.11b	Rear Face	0	13	Ant 2	w/o	99.00	1.01	11.00	10.89	1.03	0.05	0.191	0.20
	WLAN2.4G	802.11b	Rear Face	0	11	Ant 2	w/	99.00	1.01	11.00	10.97	1.01	0.08	1.09	1.11
	WLAN2.4G	802.11b	Rear Face	0	1	Ant 1	w/	99.00	1.01	11.00	10.86	1.03	-0.1	0.927	0.96
	WLAN2.4G	802.11b	Rear Face	0	6	Ant 1	w/	99.00	1.01	11.00	10.98	1.00	0.15	0.927	0.94
	WLAN2.4G	802.11b	Rear Face	0	12	Ant 1	w/	99.00	1.01	11.00	10.71	1.07	0.09	0.466	0.50
	WLAN2.4G	802.11b	Rear Face	0	13	Ant 1	w/	99.00	1.01	11.00	10.81	1.04	0.07	0.178	0.19
	WLAN2.4G	802.11b	Rear Face	0	11	Ant 2	w/o	99.00	1.01	11.00	10.97	1.01	-0.06	1.11	1.13
	WLAN5.2G	802.11ac VHT80	Rear Face	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	-0.13	0.587	0.63
	WLAN5.2G	802.11ac VHT80	Left Side	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	0	<0.001	0.00
	WLAN5.2G	802.11ac VHT80	Right Side	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	0	<0.001	0.00
2	WLAN5.2G	802.11ac VHT80	Top Side	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	-0.04	1.1	1.18
	WLAN5.2G	802.11ac VHT80	Top curve	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	0.08	1.08	1.16
	WLAN5.2G	802.11ac VHT80	Bottom Side	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	0	<0.001	0.00
	WLAN5.2G	802.11ac VHT80	Rear Face	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	-0.08	0.481	0.53
	WLAN5.2G	802.11ac VHT80	Left Side	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	0	<0.001	0.00
	WLAN5.2G	802.11ac VHT80	Right Side	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	0	<0.001	0.00
	WLAN5.2G	802.11ac VHT80	Top Side	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	-0.03	0.351	0.39
	WLAN5.2G	802.11ac VHT80	Top curve	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	-0.02	0.441	0.49
	WLAN5.2G	802.11ac VHT80	Bottom Side	0	42	Ant 2	w/o	92.80	1.08	10.50	10.41	1.02	0	<0.001	0.00
	WLAN5.2G	802.11ac VHT80	Top Side	0	42	Ant 1	w/	93.80	1.07	10.00	9.99	1.00	-0.11	1.06	1.13
	WLAN5.2G	802.11ac VHT80	Top Side	0	42	Ant 1	w/o	93.80	1.07	10.00	9.99	1.00	0.08	1.09	1.17

### Body SAR Test Result (Low Power Mode)

System & Position						DUT & Accessory		SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Keyboard	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.3G	802.11ac VHT80	Rear Face	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	-0.14	0.802	0.86
	WLAN5.3G	802.11ac VHT80	Left Side	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	0.03	0.117	0.13
	WLAN5.3G	802.11ac VHT80	Right Side	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	0	<0.001	0.00
3	WLAN5.3G	802.11ac VHT80	Top Side	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	-0.07	1.09	1.17
	WLAN5.3G	802.11ac VHT80	Top curve	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	0.06	1.06	1.13
	WLAN5.3G	802.11ac VHT80	Bottom Side	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Rear Face	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	-0.11	0.577	0.62
	WLAN5.3G	802.11ac VHT80	Left Side	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Right Side	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Top Side	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	0.13	0.376	0.41
	WLAN5.3G	802.11ac VHT80	Top curve	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	-0.02	0.424	0.46
	WLAN5.3G	802.11ac VHT80	Bottom Side	0	58	Ant 2	w/o	92.80	1.08	10.50	10.48	1.00	0	<0.001	0.00
	WLAN5.3G	802.11ac VHT80	Top Side	0	58	Ant 1	w/	93.80	1.07	10.50	10.50	1.00	-0.04	0.828	0.89
	WLAN5.3G	802.11ac VHT80	Top Side	0	58	Ant 1	w/o	93.80	1.07	10.50	10.50	1.00	-0.07	1.03	1.10
	WLAN5.6G	802.11ac VHT80	Rear Face	0	138	Ant 1	w/o	93.80	1.07	11.00	10.97	1.01	0.12	0.501	0.54
	WLAN5.6G	802.11ac VHT80	Left Side	0	138	Ant 1	w/o	93.80	1.07	11.00	10.97	1.01	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Right Side	0	138	Ant 1	w/o	93.80	1.07	11.00	10.97	1.01	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Top Side	0	138	Ant 1	w/o	93.80	1.07	11.00	10.97	1.01	-0.1	0.78	0.84
	WLAN5.6G	802.11ac VHT80	Bottom Side	0	138	Ant 1	w/o	93.80	1.07	11.00	10.97	1.01	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Rear Face	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	-0.09	0.601	0.65
	WLAN5.6G	802.11ac VHT80	Left Side	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Right Side	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Top Side	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	-0.04	0.352	0.38
	WLAN5.6G	802.11ac VHT80	Top curve	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	-0.02	0.424	0.46
	WLAN5.6G	802.11ac VHT80	Bottom Side	0	138	Ant 2	w/o	92.80	1.08	11.00	10.99	1.00	0	<0.001	0.00
	WLAN5.6G	802.11ac VHT80	Top Side	0	106	Ant 1	w/o	93.80	1.07	11.00	10.95	1.01	0.08	0.589	0.64
	WLAN5.6G	802.11ac VHT80	Top Side	0	122	Ant 1	w/o	93.80	1.07	11.00	10.94	1.01	0.01	0.535	0.58
4	WLAN5.6G	802.11ac VHT80	Top Side	0	138	Ant 1	w/	93.80	1.07	11.00	10.97	1.01	-0.07	1.05	1.13
	WLAN5.6G	802.11ac VHT80	Top curve	0	138	Ant 1	w/	93.80	1.07	11.00	10.97	1.01	-0.07	0.941	1.02
	WLAN5.6G	802.11ac VHT80	Top Side	0	106	Ant 1	w/	93.80	1.07	11.00	10.95	1.01	-0.01	0.901	0.97
	WLAN5.6G	802.11ac VHT80	Top Side	0	122	Ant 1	w/	93.80	1.07	11.00	10.94	1.01	0.1	0.858	0.93
	WLAN5.6G	802.11ac VHT80	Top Side	0	138	Ant 1	w/	93.80	1.07	11.00	10.97	1.01	-0.07	1.01	1.09

### Body SAR Test Result (Low Power Mode)

System & Position						DUT & Accessory		SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Keyboard	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	-0.07	0.62	0.66
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	0	<0.001	0.00
5	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	0.01	0.9	0.96
	WLAN5.8G	802.11ac VHT80	Top curve	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	-0.04	0.892	0.95
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Rear Face	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	0.08	0.712	0.78
	WLAN5.8G	802.11ac VHT80	Left Side	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Right Side	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	-0.15	0.44	0.48
	WLAN5.8G	802.11ac VHT80	Top curve	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	-0.02	0.661	0.73
	WLAN5.8G	802.11ac VHT80	Bottom Side	0	155	Ant 2	w/o	92.80	1.08	10.50	10.42	1.02	0	<0.001	0.00
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 1	w/	93.80	1.07	10.00	9.98	1.00	0.03	0.812	0.87
	WLAN5.8G	802.11ac VHT80	Top Side	0	155	Ant 1	w/o	93.80	1.07	10.00	9.98	1.00	-0.12	0.883	0.94
6	BT	BDR	Rear Face	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	-0.02	0.173	0.22
	BT	BDR	Left Side	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	-0.07	0.00927	0.01
	BT	BDR	Right Side	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	0.14	0.00395	0.01
	BT	BDR	Top Side	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	-0.05	0.047	0.06
	BT	BDR	Top curve	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	-0.05	0.043	0.06
	BT	BDR	Bottom Side	0	78	Ant 1	w/o	77.07	1.30	6.00	5.99	1.00	0	<0.001	0.00
	BT	BDR	Rear Face	0	0	Ant 1	w/o	77.07	1.30	6.00	4.59	1.38	-0.09	0.122	0.22
	BT	BDR	Rear Face	0	39	Ant 1	w/o	77.07	1.30	6.00	4.95	1.27	-0.17	0.134	0.22
	BT	BDR	Rear Face	0	78	Ant 1	w/	77.07	1.30	6.00	5.99	1.00	-0.19	0.127	0.17