

Appendix H. SAR Test Result

SAR Results for Module Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.

Module SAR Test Result

System & Position						DUT & Accessory	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	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	Front Face	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	-0.01	0.123	0.12
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	-0.19	0.086	0.09
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	-0.16	0.136	0.14
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	0.02	0.181	0.18
	WLAN2.4G	802.11b	Top Side	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	-0.17	0.247	0.25
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0	100.00	1.00	12.00	11.98	1.00	-0.01	0.263	0.26
	WLAN2.4G	802.11b	Front Face	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	0.17	0.098	0.10
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	-0.13	0.091	0.09
	WLAN2.4G	802.11b	Left Side	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	-0.11	0.143	0.14
	WLAN2.4G	802.11b	Right Side	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	0.09	0.141	0.14
	WLAN2.4G	802.11b	Top Side	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	0.03	0.218	0.22
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 1	100.00	1.00	12.00	11.98	1.00	0.01	0.243	0.24
	WLAN2.4G	802.11b	Front Face	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	-0.03	0.116	0.12
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	-0.06	0.094	0.09
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	0.14	0.153	0.15
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	-0.02	0.179	0.18
	WLAN2.4G	802.11b	Top Side	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	0.01	0.229	0.23
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	100.00	1.00	15.00	14.96	1.01	-0.16	0.265	0.27
	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 0+1	100.00	1.00	15.00	14.77	1.05	0.17	0.271	0.28
1	WLAN2.4G	802.11b	Bottom Side	5	11	Ant 0+1	100.00	1.00	15.00	14.94	1.01	0.04	0.287	0.29
	WLAN2.4G	802.11b	Bottom Side	5	12	Ant 0+1	100.00	1.00	15.00	14.92	1.02	0.06	0.278	0.28
	WLAN2.4G	802.11b	Bottom Side	5	13	Ant 0+1	100.00	1.00	15.00	14.95	1.01	-0.1	0.275	0.28

Module SAR Test Result

System & Position						DUT & Accessory	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	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 VHT160	Front Face	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	0.02	0.086	0.09
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	-0.07	0.022	0.02
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	0.08	0.097	0.10
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	0.1	0.023	0.02
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	-0.1	0.097	0.10
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0	100.00	1.00	10.50	10.47	1.01	-0.19	0.143	0.14
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	0.1	0.201	0.20
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	0.02	0.035	0.04
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	0.18	0.236	0.24
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	0.11	0.033	0.03
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	0.12	0.103	0.10
2	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 1	100.00	1.00	10.50	10.45	1.01	-0.18	0.243	0.25
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	-0.19	0.146	0.15
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	-0.19	0.028	0.03
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	0.17	0.171	0.17
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	-0.15	0.015	0.02
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	-0.16	0.078	0.08
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0+1	100.00	1.00	13.50	13.42	1.02	-0.18	0.178	0.18
							-	1.00	-	-	1		-	-
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	0.07	0.079	0.08
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	-0.06	0.02	0.02
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	0.03	0.09	0.09
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	0.14	0.021	0.02
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	0.05	0.09	0.09
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0	100.00	1.00	10.50	10.48	1.00	-0.11	0.132	0.13
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	-0.02	0.148	0.15
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	0.04	0.026	0.03
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	0.05	0.171	0.17
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	-0.11	0.024	0.02
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	0.07	0.076	0.08
3	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 1	100.00	1.00	10.50	10.46	1.01	-0.09	0.18	0.18
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	-0.08	0.12	0.12
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	0.12	0.022	0.02
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	0.05	0.141	0.14
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	0.07	0.013	0.01
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	-0.06	0.064	0.06
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0+1	100.00	1.00	13.50	13.46	1.01	-0.13	0.146	0.15
							-	1.00	-	-	1		-	-

Module SAR Test Result

System & Position						DUT & Accessory	SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	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	Front Face	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	-0.03	0.181	0.18
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	0.11	0.047	0.05
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	0.05	0.204	0.20
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	-0.08	0.048	0.05
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	0.02	0.204	0.20
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0	100.00	1.00	10.50	10.48	1.00	-0.01	0.299	0.30
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	-0.03	0.276	0.28
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	0.05	0.049	0.05
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	0.08	0.327	0.33
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	0.18	0.046	0.05
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	-0.14	0.143	0.14
4	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 1	100.00	1.00	10.50	10.47	1.01	-0.07	0.336	0.34
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	-0.12	0.252	0.26
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	-0.17	0.048	0.05
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	0.09	0.295	0.30
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	0.17	0.027	0.03
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	-0.14	0.135	0.14
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	100.00	1.00	13.50	13.43	1.02	-0.04	0.306	0.31
							-	1.00	-	-	1		-	-
	BT	BDR	Front Face	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	-0.01	0.08	0.10
	BT	BDR	Rear Face	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	-0.04	0.075	0.10
	BT	BDR	Left Side	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	-0.1	0.118	0.15
	BT	BDR	Right Side	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	0.05	0.116	0.15
	BT	BDR	Top Side	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	-0.16	0.18	0.24
5	BT	BDR	Bottom Side	5	0	Ant 1	76.08	1.31	11.50	11.48	1.00	-0.12	0.2	0.26
	BT	BDR	Bottom Side	5	39	Ant 1	76.08	1.31	11.50	11.46	1.01	-0.19	0.193	0.26
	BT	BDR	Bottom Side	5	78	Ant 1	76.08	1.31	11.50	11.42	1.02	0.09	0.194	0.26