

## **Annex F. SAR and Power Density Test Result**

SAR Results for Body Exposure Condition.

**Note:**

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

System & Position						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	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.09	0.204	0.21
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	-0.08	0.173	0.18
	WLAN2.4G	802.11b	Left Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.16	0.194	0.20
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.03	0.359	0.37
	WLAN2.4G	802.11b	Top Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	-0.16	0.327	0.33
	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 0	100.00	1.00	15.50	15.43	1.02	0.02	0.644	0.66
	WLAN2.4G	802.11b	Front Face	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.06	0.217	0.22
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.07	0.167	0.17
	WLAN2.4G	802.11b	Left Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	-0.16	0.175	0.18
	WLAN2.4G	802.11b	Right Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.05	0.504	0.50
	WLAN2.4G	802.11b	Top Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.01	0.437	0.44
	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 1	100.00	1.00	15.50	15.48	1.00	0.03	0.6	0.60
	WLAN2.4G	802.11b	Front Face	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.05	0.273	0.29
	WLAN2.4G	802.11b	Rear Face	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.18	0.194	0.21
	WLAN2.4G	802.11b	Left Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.04	0.214	0.23
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.17	0.445	0.48
	WLAN2.4G	802.11b	Top Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	0.11	0.405	0.44
1	WLAN2.4G	802.11b	Bottom Side	5	1	Ant 0+1	100.00	1.00	18.50	18.18	1.08	-0.15	0.655	0.71
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	100.00	1.00	18.50	18.17	1.08	0.05	0.634	0.68
	WLAN2.4G	802.11b	Bottom Side	5	11	Ant 0+1	100.00	1.00	18.50	18.16	1.08	0.12	0.585	0.63
	WLAN2.4G	802.11b	Bottom Side	5	12	Ant 0+1	100.00	1.00	18.50	18.15	1.08	-0.19	0.597	0.64
	WLAN2.4G	802.11b	Bottom Side	5	13	Ant 0+1	100.00	1.00	18.50	18.15	1.08	0.15	0.594	0.64
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.03	0.205	0.21
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.1	0.056	0.06
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	-0.09	0.349	0.35
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.1	0.037	0.04
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	0.16	0.225	0.23
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0	100.00	1.00	16.00	15.98	1.00	-0.19	0.754	0.75
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.09	0.285	0.30
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.06	0.103	0.11
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.07	0.34	0.36
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	0.11	0.059	0.06
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.05	0.318	0.34
	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 1	100.00	1.00	16.00	15.72	1.07	-0.06	0.584	0.62
	WLAN5.3G	802.11ac VHT160	Front Face	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.03	0.25	0.27
	WLAN5.3G	802.11ac VHT160	Rear Face	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.09	0.098	0.11
	WLAN5.3G	802.11ac VHT160	Left Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.07	0.459	0.50
	WLAN5.3G	802.11ac VHT160	Right Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	0.02	0.058	0.06
	WLAN5.3G	802.11ac VHT160	Top Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.13	0.316	0.34
2	WLAN5.3G	802.11ac VHT160	Bottom Side	5	50	Ant 0+1	100.00	1.00	19.00	18.62	1.09	-0.17	0.711	0.77

System & Position						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)
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.08	0.265	0.27
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.05	0.072	0.07
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.02	0.451	0.46
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	-0.01	0.048	0.05
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	0.06	0.291	0.30
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0	100.00	1.00	14.00	13.91	1.02	-0.14	0.707	0.72
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	0.16	0.315	0.32
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.17	0.113	0.11
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.13	0.375	0.38
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.08	0.066	0.07
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.12	0.35	0.35
3	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 1	100.00	1.00	14.00	13.98	1.00	-0.06	0.748	0.75
	WLAN5.6G	802.11ac VHT160	Front Face	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.04	0.349	0.36
	WLAN5.6G	802.11ac VHT160	Rear Face	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.08	0.137	0.14
	WLAN5.6G	802.11ac VHT160	Left Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.08	0.641	0.65
	WLAN5.6G	802.11ac VHT160	Right Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	0.09	0.082	0.08
	WLAN5.6G	802.11ac VHT160	Top Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	0.02	0.442	0.45
	WLAN5.6G	802.11ac VHT160	Bottom Side	5	114	Ant 0+1	100.00	1.00	17.00	16.93	1.02	-0.04	0.726	0.74
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.19	0.235	0.24
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	-0.1	0.064	0.07
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.01	0.401	0.41
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.03	0.043	0.04
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	-0.05	0.258	0.27
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0	100.00	1.00	14.00	13.86	1.03	0.05	0.629	0.65
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	0.04	0.339	0.34
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.1	0.122	0.12
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.06	0.405	0.41
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.14	0.071	0.07
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.16	0.378	0.38
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 1	100.00	1.00	14.00	13.97	1.01	-0.08	0.649	0.66
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.16	0.354	0.36
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.18	0.139	0.14
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.17	0.65	0.66
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.06	0.083	0.08
	WLAN5.8G	802.11ac VHT80	Top Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	0.03	0.448	0.46
4	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	100.00	1.00	17.00	16.90	1.02	-0.07	0.773	0.79
	BT	BR / EDR	Front Face	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.08	0.099	0.13
	BT	BR / EDR	Rear Face	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	0.11	0.076	0.10
	BT	BR / EDR	Left Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.09	0.079	0.10
	BT	BR / EDR	Right Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.12	0.229	0.30
	BT	BR / EDR	Top Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.12	0.198	0.26
	BT	BR / EDR	Bottom Side	5	0	Ant 1	76.63	1.30	13.00	12.97	1.01	-0.18	0.264	0.35
	BT	BR / EDR	Bottom Side	5	39	Ant 1	76.63	1.30	13.00	12.86	1.03	0.13	0.268	0.36
5	BT	BR / EDR	Bottom Side	5	78	Ant 1	76.63	1.30	13.00	12.93	1.02	-0.18	0.275	0.36

**Body SAR and Power Density Test Result (Module)**

System & Position						DUT & Accessory	SAR									Power Density								
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)	Measured APD W/m <sup>2</sup> (4cm <sup>2</sup> )	Grid Step [λ]	iPD [W/m <sup>2</sup> ]	Scaling Factor for Measurement Uncertainty	Averaging Area [cm <sup>2</sup> ]	Power Drift [dB]	Normal psPD [W/m <sup>2</sup> ]	Scaled Normal psPD [W/m <sup>2</sup> ]	Total psPD [W/m <sup>2</sup> ]	Scaled Total psPD [W/m <sup>2</sup> ]
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.16	0.366	0.42	5.88	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.19	0.048	0.06	0.77	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.03	0.053	0.06	0.85	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	-0.12	0.063	0.07	1.01	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.17	0.205	0.24	3.29	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 0	87.89	1.14	10.00	9.94	1.01	0.1	0.369	0.42	5.93	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.13	0.322	0.37	5.17	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.01	0.072	0.08	1.16	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.02	0.063	0.07	1.02	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.16	0.214	0.25	3.44	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	0.04	0.207	0.24	3.33	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 1	88.74	1.13	10.00	9.92	1.02	-0.09	0.32	0.37	5.14	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Front Face	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.01	0.313	0.37	5.03	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Rear Face	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	-0.1	0.046	0.05	0.74	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Left Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.08	0.053	0.06	0.85	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Right Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.09	0.18	0.21	2.89	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Top Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	-0.04	0.19	0.22	3.05	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	79	Ant 0+1	87.84	1.14	13.00	12.86	1.03	0.09	0.381	0.45	6.11	0.25	9.50	1.545	4.00	-0.15	2.58	3.99	2.76	4.26
	UNII-5	802.11ax HE160	Bottom Side	5	15	Ant 0+1	87.89	1.14	13.00	12.76	1.06	-0.1	0.19	0.23	3.04	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-5	802.11ax HE160	Bottom Side	5	47	Ant 0+1	87.89	1.14	13.00	12.71	1.07	-0.17	0.168	0.20	2.71	0.25	-	1.545	4.00	-	-	-	-	-
	UNII-6	802.11ax HE160	Bottom Side	5	111	Ant 0+1	87.89	1.14	13.00	12.77	1.05	-0.17	0.392	0.47	6.29	0.25	9.80	1.545	4.00	-0.15	2.58	3.99	2.79	4.31
	UNII-7	802.11ax HE160	Bottom Side	5	143	Ant 0+1	87.89	1.14	13.00	12.54	1.11	0.06	0.351	0.44	6.03	0.25	8.84	1.545	4.00	-0.16	2.44	3.77	2.62	4.05
	UNII-7	802.11ax HE160	Bottom Side	5	175	Ant 0+1	87.89	1.14	13.00	12.41	1.15	-0.07	0.28	0.37	4.48	0.25	8.01	1.545	4.00	-0.12	1.92	2.97	2.28	3.52
6	UNII-8	802.11ax HE160	Bottom Side	5	207	Ant 0+1	87.89	1.14	13.00	12.81	1.04	-0.19	0.431	0.51	6.91	0.25	10.30	1.545	4.00	-0.11	3.03	4.68	3.19	4.93