

Appendix B. WIFI6E SAR and PD Measurement of Result

Note.

1. WIFI6E operations support SISO and MIMO. SAR test condition for SISO and MIMO mode are following by KDB248227 D01v02r02.
2. Per FCC guidance, SAR was performed using 6.5GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes. At list 5 channels were tested. Absorbed power density(APD)using a 4cm² averaging area is reported based on SAR measurements.

SAR and Power Density Test Result

System & Position						DUT & Accessory			SAR							Power Density			
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	P-Sensor	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)	Averaging Area [cm ²]	Avg-Total Power Density [W/m ²]	Scaled Avg-Total PD [W/m ²]
Tablet SAR Test SAR-1g : 1.6 W/kg																			
	WLAN UNII-5	802.11ax HE160	Rear Face	0	47	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.03	0.151	0.15	4	0.729	0.74
	WLAN UNII-5	802.11ax HE160	Left Side	0	47	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Right Side	0	47	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0	<0.001	0.00	4	0.00	0.00
1	WLAN UNII-5	802.11ax HE160	Top Side	0	47	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.03	0.862	0.87	4	4.14	4.18
	WLAN UNII-5	802.11ax HE160	Bottom Side	0	47	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Rear Face	0	47	1	Ant 1	w/o	99.00	1.01	13.50	13.47	1.01	0.02	0.122	0.12	4	0.624	0.64
	WLAN UNII-5	802.11ax HE160	Left Side	0	47	1	Ant 1	w/o	99.00	1.01	13.50	13.47	1.01	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Right Side	0	47	1	Ant 1	w/o	99.00	1.01	13.50	13.47	1.01	0	<0.001	0.00	4	0.00	0.00
2	WLAN UNII-5	802.11ax HE160	Top Side	0	47	1	Ant 1	w/o	99.00	1.01	13.50	13.47	1.01	0.05	0.680	0.69	4	3.53	3.60
	WLAN UNII-5	802.11ax HE160	Bottom Side	0	47	1	Ant 1	w/o	99.00	1.01	13.50	13.47	1.01	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Rear Face	0	47	1	Ant 0+1	w/o	99.00	1.01	13.50	13.49	1.00	0.03	0.103	0.10	4	0.585	0.59
	WLAN UNII-5	802.11ax HE160	Left Side	0	47	1	Ant 0+1	w/o	99.00	1.01	13.50	13.49	1.00	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Right Side	0	47	1	Ant 0+1	w/o	99.00	1.01	13.50	13.49	1.00	0	<0.001	0.00	4	0.00	0.00
3	WLAN UNII-5	802.11ax HE160	Top Side	0	47	1	Ant 0+1	w/o	99.00	1.01	13.50	13.49	1.00	0.01	0.461	0.47	4	2.61	2.64
	WLAN UNII-5	802.11ax HE160	Bottom Side	0	47	1	Ant 0+1	w/o	99.00	1.01	13.50	13.49	1.00	0	<0.001	0.00	4	0.00	0.00
	WLAN UNII-5	802.11ax HE160	Top Side	0	15	1	Ant 0	w/o	99.00	1.01	13.50	13.45	1.01	0.15	0.817	0.83	4	3.87	3.95
	WLAN UNII-5	802.11ax HE160	Top Side	0	79	1	Ant 0	w/o	99.00	1.01	13.50	13.41	1.02	0.06	0.646	0.67	4	3.04	3.13
	WLAN UNII-6	802.11ax HE160	Top Side	0	111	1	Ant 0	w/o	99.00	1.01	13.50	13.45	1.01	0.05	0.512	0.52	4	2.53	2.58
	WLAN UNII-7	802.11ax HE160	Top Side	0	143	1	Ant 0	w/o	99.00	1.01	13.50	13.41	1.02	-0.18	0.570	0.59	4	2.76	2.84
	WLAN UNII-7	802.11ax HE160	Top Side	0	175	1	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.05	0.300	0.30	4	1.26	1.27
	WLAN UNII-8	802.11ax HE160	Top Side	0	207	1	Ant 0	w/o	99.00	1.01	13.00	12.98	1.00	-0.11	0.423	0.43	4	1.51	1.53
	WLAN UNII-5	802.11ax HE160	Top Side	0	47	2	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.06	0.816	0.82	4	3.88	3.92
	WLAN UNII-5	802.11ax HE160	Top Side	0	47	3	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.01	0.802	0.81	4	3.83	3.87
	WLAN UNII-5	802.11ax HE160	Top Side	0	47	4	Ant 0	w/o	99.00	1.01	13.50	13.48	1.00	0.02	0.836	0.84	4	4.05	4.09

SAR and Power Density Test Result

System & Position						DUT & Accessory			SAR							Power Density			
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Sample	Ant Status	P-Sensor	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)	Averaging Area [cm ²]	Avg-Total Power Density [W/m ²]	Scaled Avg-Total PD [W/m ²]
Laptop SAR Test SAR-1g : 1.6 W/kg																			
4	WLAN UNII-5	802.11ax HE160	Bottom	0	47	1	Ant 0	w/	99.00	1.01	10.50	10.41	1.02	-0.04	0.633	0.65	4	3.28	3.38
5	WLAN UNII-5	802.11ax HE160	Bottom	0	47	1	Ant 1	w/	99.00	1.01	10.50	9.83	1.17	-0.04	0.386	0.46	4	1.80	2.13
6	WLAN UNII-5	802.11ax HE160	Bottom	0	47	1	Ant 0+1	w/	99.00	1.01	13.50	13.49	1.00	-0.05	0.628	0.63	4	3.22	3.25
	WLAN UNII-5	802.11ax HE160	Bottom	0	15	1	Ant 0	w/	99.00	1.01	10.50	10.39	1.03	-0.02	0.625	0.65	4	3.62	3.77
	WLAN UNII-5	802.11ax HE160	Bottom	0	79	1	Ant 0	w/	99.00	1.01	10.50	10.33	1.04	-0.07	0.573	0.60	4	2.84	2.98
	WLAN UNII-6	802.11ax HE160	Bottom	0	111	1	Ant 0	w/	99.00	1.01	9.00	8.88	1.03	-0.07	0.362	0.38	4	1.63	1.70
	WLAN UNII-7	802.11ax HE160	Bottom	0	143	1	Ant 0	w/	99.00	1.01	13.50	13.41	1.02	0.05	0.271	0.28	4	1.33	1.37
	WLAN UNII-7	802.11ax HE160	Bottom	0	175	1	Ant 0	w/	99.00	1.01	13.50	13.48	1.00	0.1	0.259	0.26	4	1.16	1.17
	WLAN UNII-8	802.11ax HE160	Bottom	0	207	1	Ant 0	w/	99.00	1.01	10.00	9.83	1.04	-0.16	0.337	0.35	4	1.58	1.66
	WLAN UNII-5	802.11ax HE160	Bottom	0	47	2	Ant 0	w/	99.00	1.01	10.50	10.41	1.02	0.05	0.602	0.62	4	3.72	3.83
	WLAN UNII-5	802.11ax HE160	Bottom	0	47	3	Ant 0	w/	99.00	1.01	10.50	10.41	1.02	0.08	0.603	0.62	4	3.55	3.66
	WLAN UNII-5	802.11ax HE160	Bottom	0	47	4	Ant 0	w/	99.00	1.01	10.50	10.41	1.02	-0.06	0.621	0.64	4	3.81	3.93