

## Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})]$

$* [\sqrt{f(\text{GHz})}]$

### WIFI 2.4GHz

Frequency (MHz)	Peak Output Power (dBm)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Average Output Power: mW	Separation distance mm	RF exposure
802.11b						
2412	9.68	8.7±1.0	9.7	9.333	5	2.899
2437	9.59	8.7±1.0	9.7	9.333	5	2.914
2462	9.53	8.7±1.0	9.7	9.333	5	2.929
802.11g						
2412	9.24	8.4±1.0	9.4	8.710	5	2.705
2437	9.33	8.4±1.0	9.4	8.710	5	2.719
2462	9.31	8.4±1.0	9.4	8.710	5	2.733
802.11n(HT20)						
2412	8.37	7.4±1.0	8.4	6.918	5	2.149
2437	8.25	7.4±1.0	8.4	6.918	5	2.160
2462	8.38	7.4±1.0	8.4	6.918	5	2.171
802.11n(HT40)						
2422	7.58	6.6±1.0	7.6	5.754	5	1.791
2437	7.47	6.6±1.0	7.6	5.754	5	1.797
2452	7.52	6.6±1.0	7.6	5.754	5	1.802

**WIFI 5.2GHz**

Frequency (MHz)	Peak Output Power (dBm)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Average Output Power: mW	Separation distance mm	RF exposure
802.11a						
5180	7.85	6.9±1.0	7.9	6.166	5	2.807
5200	7.72	6.9±1.0	7.9	6.166	5	2.812
5240	7.76	6.9±1.0	7.9	6.166	5	2.823
802.11n(HT20)						
5180	7.61	6.7±1.0	7.7	5.888	5	2.680
5200	7.59	6.7±1.0	7.7	5.888	5	2.686
5240	7.52	6.7±1.0	7.7	5.888	5	2.696
802.11n(HT40)						
5190	6.76	5.8±1.0	6.8	4.786	5	2.181
5230	6.72	5.8±1.0	6.8	4.786	5	2.189
802.11ac(VHT20)						
5180	7.64	6.7±1.0	7.7	5.754	5	2.680
5200	7.57	6.7±1.0	7.7	5.754	5	2.686
5240	7.55	6.7±1.0	7.7	5.754	5	2.696
802.11ac(VHT40)						
5190	6.63	5.7±1.0	6.7	4.677	5	2.131
5230	6.47	5.7±1.0	6.7	4.677	5	2.139
802.11ac(VHT80)						
5210	6.08	5.1±1.0	6.1	4.074	5	1.860

The Max RF exposure is 2.929

Threshold at which no SAR required is  $\leq 3.0$  for 1-g SAR, Separation distance is 5mm.

**Conclusion:**

So no SAR is required.