

# FCC ID : AK8PCG1112L

No simultaneous SAR justification

**Per “616217 D03 SAR Supp Note and Netbook Laptop v01” , Test mode of SAR is as below**

Device , mode ,f	P, mW	n,cm	r, cm	R, cm	Single SAR
m2, 802.11b , 2450	50	1.047	4.24	5	3 ch
m3, Bluetooth ,2410	2.75	na	0.5	5	SAR not required

## WLAN

Only 11b mode is necessary to do SAR evaluation. Please check following table

Mode	Channel	Frequency (MHz)	Conducted power (dBm)	Thresholds	Remark
11b	1	2412	17	13.96	Need SAR test
	6	2437	16.9	13.91	Need SAR test
	11	2462	17	13.87	Need SAR test
11g	1	2412	13.6	13.96	No SAR test
	6	2437	13.8	13.91	No SAR test
	11	2462	13.5	13.87	No SAR test
11 n 20	1	2412	12.4	13.96	No SAR test
	6	2437	12.5	13.91	No SAR test
	11	2462	12.6	13.87	No SAR test
11 n 40	1	2422	9.6	13.94	No SAR test
	4	2437	9.6	13.91	No SAR test
	7	2452	9.5	13.89	No SAR test

## BT

Max power of Bluetooth is 4.4dBm < 60/f(GHz) , SAR test is unnecessary.

**Max SAR value of each mode :**

Test mode	Max sar value of body ( W/kg )
11 b	0.016
Bluetooth	0

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## **Distance between antennas ( cm ) :**

Distance between WLAN and BT is 23.57cm

Note

- 1) Distance between is based on that the angle of panel is 90 degree
- 2) Please refer to " OpDes-Antenna\_ AK8PCG1112L " for antenna separation distance

## **Conclusion:**

1. Antenna Separation is 23.57cm > 5cm
2. Sum of SAR is 0.016W / kg less than 1.6 W/kg

Accordingly, simultaneous Transmission SAR is not required for this EUT