

FCC ID : NM8RAPH500

No simultaneous SAR justification

Per “ 648474 D01 SAR Handsets Multi Xmitter and Ant v01r03”, Test mode of SAR is as below :

License device:

Low, middle, and high channels are tested

Unlicensed device (11b/g):

Highest output power channel of 11b / g mode are tested and max SAR is $0.195 \text{ W/kg} < 0.8 \text{ W/kg}$, SAR evaluation for other channels is unnecessary.

Unlicensed device (Bluetooth):

Distance between Bluetooth antenna and Mobile phone antenna is $7.153 \text{ cm} > 5 \text{ cm}$ and highest output power is $1.016 \text{ mW} < 2 \times 12 \text{ mW} (P_{\text{ref}})$, stand-alone SAR is unnecessary.

Per “ 648474 D01 SAR Handsets Multi Xmitter and Ant v01r03”, EUT complies with following condition:

- 1) Distance between GSM and 11b/g antenna is $7.153 \text{ cm} > 5 \text{ cm}$
Distance between GSM and Bluetooth antenna is $7.153 \text{ cm} > 5 \text{ cm}$
- 2) Sum of SAR is $1.579 \text{ W/kg} < 1.6 \text{ W/kg}$
Accordingly, simultaneous Transmission SAR is not required for this EUT.

Please refer to” OpDes-Antenna_ NM8RAPH500 “ for TX separation distance and individual SAR value.

Separation distance (cm)

	GSM	WLAN	Bluetooth
GSM		7.153	7.153
WLAN	7.153		0
Bluetooth	7.153	0	

Note :The EUT used the same antenna in Wireless LAN & Bluetooth function, but the two functions cannot work at the same time.

SAR value (W/kg)

TX	Max SAR (W/kg) for Head	Max SAR (W/kg) for Body
GSM	1.43	1.18
WLAN	0.149	0.213