

# EWG's Guide to Reduce Cell Phone Radiation Exposure

Cell phones emit radiation to send voice and text messages. Health risks aren't confirmed, but some (not all) studies of frequent cell phone users suggest increased risks for brain and mouth tumors and children's behavior problems. Until scientists know much more about cell phone radiation, it's smart for consumers to buy phones with the lowest emissions.

## TOP 10 LOW RADIATION PHONES:

| Phone:                                      | Radiation(W/kg*) |
|---|------------------|
| 1. Sanyo Katana II [Kajeet]                 | 0.55             |
| 2. Samsung Rugby (SGH-a837) [AT&T]          | 0.57             |
| 3. Blackberry Storm 9530 [Verizon Wireless] | 0.57             |
| 4. Samsung I800 Omnia II [Verizon]          | 0.62             |
| 5. Samsung Propel Pro (SGH-i627) [AT&T]     | 0.68             |
| 6. Samsung SGH-t229 [T-Mobile]              | 0.69             |
| 7. Helio Pantech Ocean [Virgin Mobile]      | 0.72             |
| 8. Sony Ericsson W518a Walkman [AT&T]       | 0.73             |
| 9. Samsung SGH-a137 [AT&T, AT&T GoPhone]    | 0.76             |
| 10. LG Shine II [AT&T]                      | 0.76             |



source: EWG compilation of radiation emissions from more than 1,000 cell phones currently on the market ([www.ewg.org/cellphone-radiation](http://www.ewg.org/cellphone-radiation)).

## TOP 10 SMART PHONES RECOMMENDED BY TECHNICAL EXPERTS

| Phone:  | Radiation(W/kg*) |
|---|------------------|
| 1. Motorola Droid [Verizon Wireless]              | 1.50             |
| 2. Apple iPhone 3G S [AT&T]                       | 1.19             |
| 3. HTC Nexus One by Google [T-Mobile]             | 1.39             |
| 4. Blackberry Bold 9700 [AT&T, T-Mobile]          | 1.55             |
| 5. Samsung Instinct HD (SPH-M850) [Sprint]        | 1.16             |
| 6. Motorola CLIQ with MOTOBLUR [T-Mobile]         | 1.10             |
| 7. Motorola Brute i680 [Sprint]                   | 0.86             |
| 8. Pantech Impact [AT&T]                          | 0.92             |
| 9. LG Chocolate Touch (VX8575) [Verizon Wireless] | 1.46             |
| 10. Samsung Mythic (SGH-A897) [AT&T]              | 1.08             |



source: EWG compilation of technical expert rankings of phone performance, usability, features and aesthetics; and manufacturers' published radiation levels.

\*Watts absorbed per kilogram of body weight. The Federal Communications Commission requires that all cellphones be rated at 1.6 watts per kilogram or lower -- a measure of how much radio frequency energy is absorbed by the body when using the device.