

## Test Result of RF Exposure Evaluation

- . Product: SMB Wireless N Gigabit VPN Router
- . Test Item: RF Exposure Evaluation Data
- . Test site: OATSI-SD

### Antenna Gain

Frequency Range: 5.15-5.25 GHz  
ANT 1, 2, 3:  
Antenna type: Dipole Antenna  
Antenna Gain: 2 dBi (5GHz Band)

### EUT Operation condition

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

### Output Power into Antenna & RF Exposure Evaluation Distance

Test Date: Feb. 25, 2010

Temperature: 23°C

Atmospheric pressure: 1022 hPa

Humidity: 66%

| Modulation Standard     | Channel | Frequency (MHz) | Output Power to Antenna (dBm) |       |       | Power Density (S) (mW/cm <sup>2</sup> ) |       |       |
|-------------------------|---------|-----------------|-------------------------------|-------|-------|---|-------|-------|
|                         |         |                 | Ant 1                         | Ant 2 | Ant 3 | Ant 1                                   | Ant 2 | Ant 3 |
| 802.11a (54Mbps)        | 36      | 5180            | 16.05                         | 16.22 | 16.20 | 0.013                                   | 0.013 | 0.013 |
|                         | 44      | 5220            | 16.13                         | 16.01 | 16.20 | 0.013                                   | 0.013 | 0.013 |
|                         | 48      | 5240            | 16.12                         | 16.00 | 16.16 | 0.013                                   | 0.013 | 0.013 |
| 802.11an HT20 (130Mbps) | 36      | 5180            | 12.46                         |       |       | 0.006                                   |       |       |
|                         | 44      | 5220            | 12.65                         |       |       | 0.006                                   |       |       |
|                         | 48      | 5240            | 12.73                         |       |       | 0.006                                   |       |       |
| 802.11an HT40 (27Mbps)  | 38      | 5190            | 13.18                         |       |       | 0.007                                   |       |       |
|                         | 42      | 5210            | 13.29                         |       |       | 0.007                                   |       |       |
|                         | 46      | 5230            | 13.47                         |       |       | 0.007                                   |       |       |

The MPE is calculated as  $0.013 \text{ mW} / \text{cm}^2 < \text{limit } 1 \text{ mW} / \text{cm}^2$ . So, RF exposure limit warning or SAR test are not required.