



## RF exposure

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,} \right.$$

Where;

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

### Results – Wi-Fi

#### - 802.11b

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	9	7.94	2.50	$\leq 3.0$
2.437	5	9	7.94	2.50	$\leq 3.0$
2.462	5	8	6.31	2.00	$\leq 3.0$

#### - 802.11g

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	8	6.31	2.00	$\leq 3.0$
2.437	5	8	6.31	2.00	$\leq 3.0$
2.462	5	8	6.31	2.00	$\leq 3.0$

#### - 802.11n(HT20)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.412	5	7	5.01	1.60	$\leq 3.0$
2.437	5	7	5.01	1.60	$\leq 3.0$
2.462	5	7	5.01	1.60	$\leq 3.0$



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## Results – Bluetooth 3.0

### - BDR(1Mbps)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.402	5	1	1.26	0.40	≤3.0
2.441	5	1	1.26	0.40	≤3.0
2.480	5	0	1.00	0.32	≤3.0

### - EDR(2Mbps)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.402	5	1.5	1.41	0.50	≤3.0
2.441	5	1.5	1.41	0.50	≤3.0
2.480	5	0	1.00	0.32	≤3.0

### - EDR(3Mbps)

Frequency (GHz)	Distance (mm)	Max tune-up power (dBm)		Calculation value	Exclusion Threshold
		(dBm)	(mW)		
2.402	5	2	1.58	0.50	≤3.0
2.441	5	1	1.26	0.40	≤3.0
2.480	5	1	1.26	0.40	≤3.0