SCHEDULE

PART 2

Direct biophysical effects of exposure

Action levels – thermal effects

Table AL3 – ALs for exposure to electromagnetic fields from 100 kHz to 300 GHz

Frequency range	External electric field strength ALs (E) [Vm-1]	Magnetic flux density ALs (Β) [μΤ]	Power density AL (S)[Wm ⁻²]
$100 \text{ kHz} \le f < 1 \text{ MHz}$	6.1×10^2	$2.0 \times 10^6/f$	
$1 \le f < 10 \text{ MHz}$	$6.1\times10^8/f$	$2.0 \times 10^6/\mathrm{f}$	
10 ≤ f < 400 MHz	61	0.2	
$400 \text{ MHz} \le f < 2 \text{ GHz}$	$3 \times 10^{-3} \text{ f}^{1/2}$	$1.0 \times 10^{-5} \text{ f}^{1/2}$	
$2 \le f < 6 \text{ GHz}$	1.4×10^2	4.5×10^{-1}	
$6 \le f \le 300 \text{ GHz}$	1.4×10^2	4.5×10^{-1}	50
Exposure levels not exceeding the ALs will be compliant with:	1		The health effect ELV in Table ELV6
-	6 - 300 GHz: the health effect ELV in Table ELV6		

Notes

- 1. The electric field strength and magnetic flux density ALs are root mean square values.
- **2.** For radiofrequency pulses, the peak power density averaged over the pulse width must not exceed 1000 times the respective AL (S) value. For multi-frequency fields, the analysis must be based on summation.
- **3.** Note 3 to Table AL1 applies in relation to the ALs for external electric field strength and magnetic flux density.
- **4.** The power density is the maximum level averaged over any 20cm^2 of exposed area. Spatial maximum power densities averaged over 1cm^2 must not exceed 20 times the value of 50 Wm⁻².
- **5.** From 6 to 10 GHz, power density must be averaged over a six minute period. Above 10 GHz, it must be averaged over a $68/f^{1.05}$ -minute period (where "f" is the frequency in GHz).

Table AL4 – AL for exposure to electromagnetic fields from 10 to 110MHz

Frequency range	Limb current AL (I _L) [mA]
$10 \le f \le 110 \text{ MHz}$	100

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Frequency range	Limb current AL (I _L) [mA]
Exposure levels not exceeding the ALs will be compliant with:	The health effect ELV in Table ELV4 - localised SAR in the limbs

Note

The AL is a root mean square value.