EMF ADVISORY UNIT
RADIO FREQUENCY ASSESSMENT

VF 13307 Victoria Road Car Park, Ruthin Road, Wrexham, North Wales, LL13 7TT

Calculations are undertaken to estimate the highest possible radio frequency fields and it is assumed that all channels are transmitting at full power, 24 hours a day. This is a highly unlikely set of circumstances, so in reality, day-to-day measurements will be much lower. It is also assumed that there is no obstruction to the signal by way of structural materials so **levels inside buildings are typically reduced further by a factor of ten**.

Calculations demonstrated that

	% ICNIRP [PEL]	Bearing (degrees)	Distance (m)
Maximum Radio Wave Intensity	0.7	89	95

Distance along bearing of 89 degrees (m)	% of ICNIRP [PEL]
5	0.009
50	0.081
100	0.69
200	0.26
300	0.11
400	0.061
500	0.038

For further information please contact:

EMF Enquiries, CTIL
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1. The European Union's recommendation for public exposure to RF fields is based on guidelines established by the International Commission on Non-Ionising Radiation Protection (ICNIRP). The recommendation includes a note: "These basic restrictions and reference levels for limiting exposure have been developed following a thorough review of all published scientific literature … since there are safety factors of about 50 between the threshold value for acute effects and the basic restrictions, this Recommendation implicitly covers possible long-term effects in the whole frequency range."

2 International Commission on Non-Ionising Radiation Protection (ICNIRP). These precautionary guidelines have been recommended by the Independent Expert Group on Mobile Phones under the chairmanship of Professor Sir William Stewart, UK Government, the European Union and they have the formal backing of the World Health Organisation. They are subject to periodic review.