



Mobile Telephone Base-station Radio Emission Audit

AUDIT SITE : Wolstanton High School
 Milehouse Lane
 Wolstanton, Newcastle-under-Lyme
 Staffordshire
 ST5 9JU

The Radiocommunications Agency (RA) is responsible for the management of the civil radio spectrum in the UK. The Government has asked the RA to implement a national measurement programme to ensure that emissions from cellular base stations do not exceed recommended guidelines.

RA engineers measure the power density of transmissions in the various radio bands to be surveyed. The results, derived from electric field voltage measurements, are referenced to and presented alongside the relevant International Commission on Non-Ionizing Radiation Protection (ICNIRP) recommended public maximum exposure levels. On the left hand side of the results page(s) is a graphical representation of the radio spectrum surveyed at each location on the site. At the top of each graph a dotted green line indicates the ICNIRP recommended exposure level for that frequency band. To the right hand side of each graph is a table showing the ten highest level emissions recorded within a band. In addition to this report, results taken from each audit site will be posted on the RA website at www.radio.gov.uk where further information on the audit can be found.

Further explanation of the results and their context within ICNIRP guidelines can be provided by the RA engineers at the time of the audit or by contacting the RA on 020 7211 0211 or by e-mail at rfaudit@ra.gsi.gov.uk.

The DfEE have issued advice and information about base stations to local education authorities and schools in the DfEE's 'Spectrum' publication. Further information and contact points can also be found on the DfEE website at <http://www.dfes.gov.uk/a-z/mobilephones.html>.



Report Summary

The Radiocommunications Agency performed this survey of the RF emission environment prevailing in the vicinity of Wolstanton High School on 4 July 2001.

As the radio spectrum is continually changing, these measurements can only provide information on the RF conditions for the specific location(s) at the time of the survey.

The following table, sorted in descending order of signal level, summarises the results obtained at each measurement location.

Summary of results:		
Location	Total Band Exposure Quotient	Relationship to ICNIRP Public Exposure Level
Grass area in left hand quad	2.1129097159E-05	1/47328
North west corner of playing field	2.0774838791E-05	1/48135
Concrete throwing circle in south west corner of playing field	1.5618176164E-05	1/64027
First floor corridor outside room 44	9.7906126541E-06	1/102138
Corner of Tennis courts by car park	6.6484202633E-06	1/150411
Main Gate	6.0628235966E-06	1/164939
Centre of playground by sports hall	5.3485625583E-06	1/186966

Issued on behalf of the Radiocommunications Agency

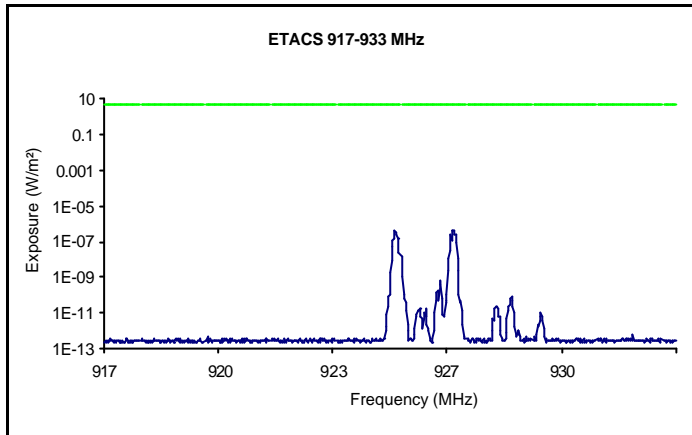
Issued by:

Received by:

John Taylor
Radiocommunications Specialist

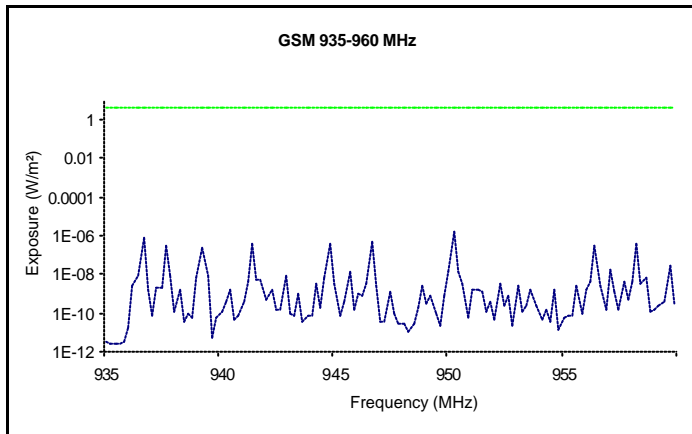
Mr Fletcher
Burser

Site: Wolstanton High School	Receiver:
Location: Centre of playground by sports hall	Manufacturer: ROHDE&SCHWARZ
	Model: EB200
	Serial Number: 837.752/003,V02.31-4052.4654.
NGR: SJ 8512 4771 Taken from GPS	Antenna:
Start Time: 04 Jul 2001 9:59:27	Manufacturer: Rohde & Schwarz
	Model: HE200.4050.3609.02
Engineer: John Taylor	Serial Number: 728264/025



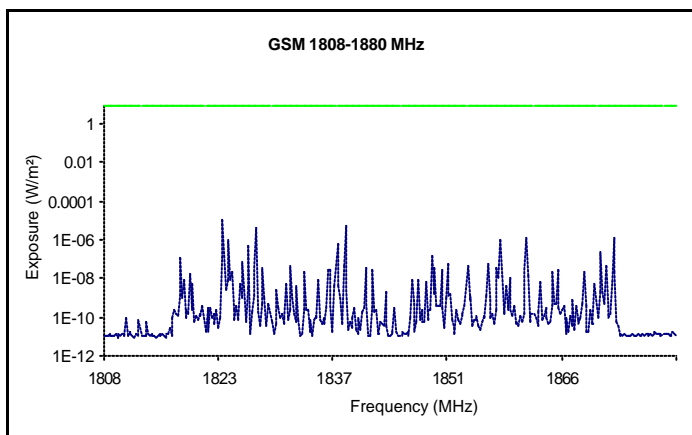
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
926.800	3.988E-07	4.63	8.607E-08
926.775	3.897E-07	4.63	8.411E-08
925.175	3.708E-07	4.63	8.016E-08
926.825	3.395E-07	4.63	7.326E-08
925.200	2.879E-07	4.63	6.223E-08
926.875	2.460E-07	4.63	5.307E-08
926.850	2.404E-07	4.63	5.186E-08
925.225	2.287E-07	4.63	4.943E-08
926.725	2.093E-07	4.63	4.517E-08
925.275	1.735E-07	4.63	3.750E-08

Band Exposure Quotient : 8.087E-07



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	1.716E-06	4.75	3.610E-07
936.800	7.600E-07	4.68	1.622E-07
946.800	4.907E-07	4.73	1.037E-07
941.600	4.127E-07	4.71	8.765E-08
945.000	3.972E-07	4.72	8.406E-08
958.400	3.736E-07	4.79	7.796E-08
956.600	2.955E-07	4.78	6.179E-08
937.800	2.896E-07	4.69	6.176E-08
939.400	2.474E-07	4.70	5.267E-08
959.800	3.340E-08	4.80	6.961E-09

Band Exposure Quotient : 1.103E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,823.000	1.353E-05	9.12	1.484E-06
1,838.400	5.792E-06	9.19	6.301E-07
1,827.400	4.311E-06	9.14	4.718E-07
1,861.400	1.413E-06	9.31	1.518E-07
1,872.200	1.375E-06	9.36	1.468E-07
1,858.000	1.041E-06	9.29	1.121E-07
1,823.800	1.004E-06	9.12	1.101E-07
1,837.400	6.487E-07	9.19	7.061E-08
1,826.400	5.174E-07	9.13	5.665E-08
1,870.600	2.075E-07	9.35	2.218E-08

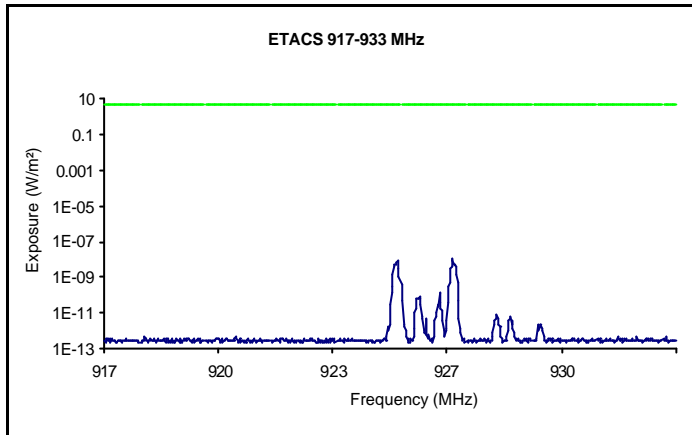
Band Exposure Quotient : 3.437E-06

Number of Frequencies Used in Quotient : 1128

Total Band Exposure Quotient : 5.349E-06

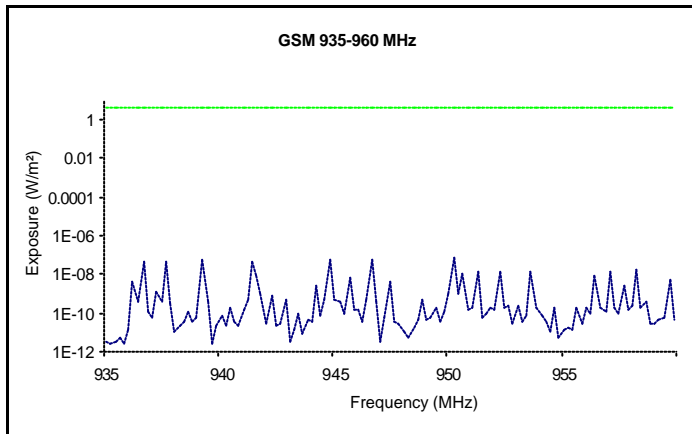
Site: Wolstanton High School
Location: Corner of Tennis courts by car park
NGR: SJ 8520 4777 **Taken from GPS**
Start Time: 04 Jul 2001 10:23:04
Engineer: John Taylor

Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003,V02.31-4052.4654.
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200.4050.3609.02
 Serial Number: 728264/025



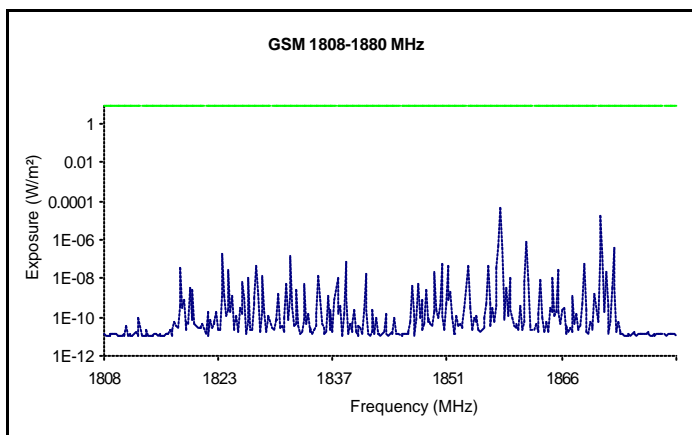
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
926.775	1.025E-08	4.63	2.212E-09
925.250	8.303E-09	4.63	1.795E-09
926.800	7.777E-09	4.63	1.678E-09
925.225	7.067E-09	4.63	1.528E-09
926.825	5.506E-09	4.63	1.188E-09
925.175	5.238E-09	4.63	1.132E-09
926.850	4.687E-09	4.63	1.011E-09
925.200	4.459E-09	4.63	9.638E-10
926.750	4.176E-09	4.63	9.012E-10
925.150	3.883E-09	4.63	8.394E-10

Band Exposure Quotient : **1.688E-08**



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	8.024E-08	4.75	1.689E-08
939.400	6.359E-08	4.70	1.354E-08
945.000	6.152E-08	4.72	1.302E-08
946.800	5.765E-08	4.73	1.218E-08
937.800	5.270E-08	4.69	1.124E-08
941.600	5.077E-08	4.71	1.078E-08
936.800	4.686E-08	4.68	1.000E-08
958.400	1.916E-08	4.79	3.998E-09
953.800	1.541E-08	4.77	3.231E-09
957.200	1.483E-08	4.79	3.099E-09

Band Exposure Quotient : **1.186E-07**



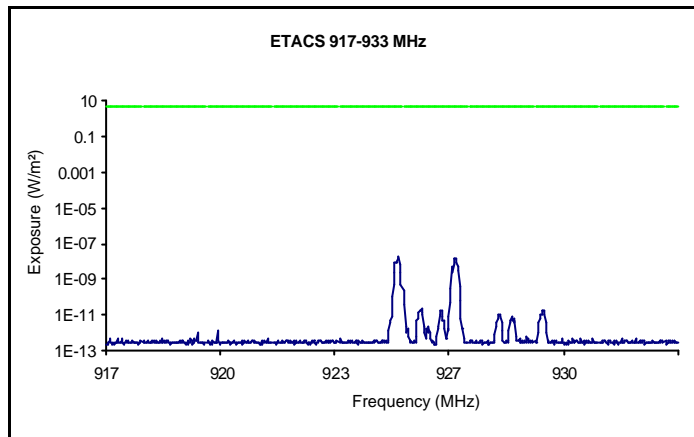
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,858.000	4.050E-05	9.29	4.360E-06
1,870.600	1.686E-05	9.35	1.803E-06
1,861.400	7.080E-07	9.31	7.607E-08
1,857.800	4.240E-07	9.29	4.564E-08
1,858.200	3.869E-07	9.29	4.165E-08
1,872.200	3.374E-07	9.36	3.604E-08
1,870.400	1.647E-07	9.35	1.762E-08
1,823.000	1.553E-07	9.12	1.704E-08
1,870.800	1.436E-07	9.35	1.535E-08
1,831.600	1.311E-07	9.16	1.432E-08

Band Exposure Quotient : **6.513E-06**

Number of Frequencies Used in Quotient : 1128

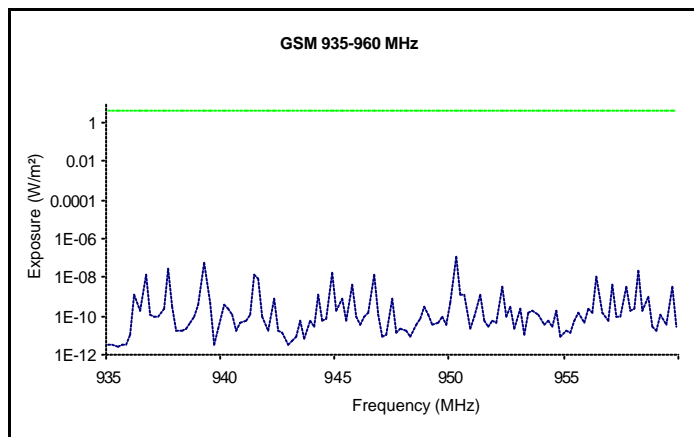
Total Band Exposure Quotient : **6.648E-06**

Site:	Wolstanton High School	Receiver:	Manufacturer: ROHDE&SCHWARZ Model: EB200 Serial Number: 837.752/003,V02.31-4052.4654.
Location:	Concrete throwing circle in south west corner of playing field	Antenna:	Manufacturer: Rohde & Schwarz Model: HE200.4050.3609.02 Serial Number: 728264/025
NGR:	SJ 8501 4756	Taken from GPS	
Start Time:	04 Jul 2001 10:48:09		
Engineer:	John Taylor		



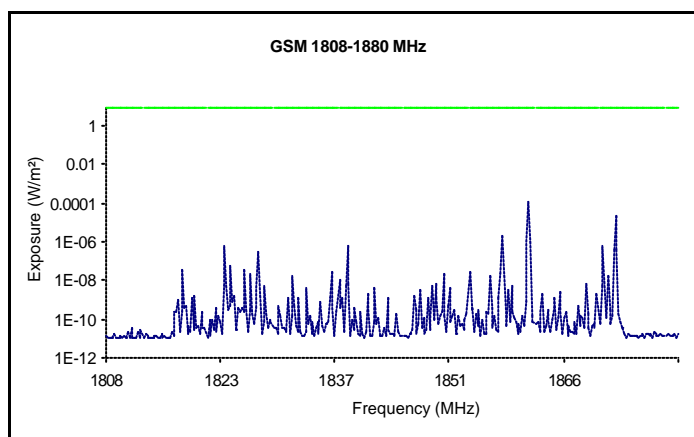
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
925.225	1.946E-08	4.63	4.207E-09
925.200	1.657E-08	4.63	3.581E-09
926.800	1.588E-08	4.63	3.426E-09
926.775	1.351E-08	4.63	2.916E-09
926.825	1.321E-08	4.63	2.850E-09
925.175	9.981E-09	4.63	2.158E-09
925.150	9.980E-09	4.63	2.158E-09
926.850	7.959E-09	4.63	1.717E-09
925.125	7.927E-09	4.63	1.714E-09
926.750	6.773E-09	4.63	1.462E-09

Band Exposure Quotient : 3.228E-08



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	9.428E-08	4.75	1.984E-08
939.400	6.359E-08	4.70	1.354E-08
937.800	2.766E-08	4.69	5.898E-09
958.400	2.526E-08	4.79	5.271E-09
945.000	1.816E-08	4.72	3.842E-09
941.600	1.533E-08	4.71	3.257E-09
946.800	1.482E-08	4.73	3.130E-09
936.800	1.448E-08	4.68	3.092E-09
956.600	1.098E-08	4.78	2.296E-09
941.800	8.238E-09	4.71	1.749E-09

Band Exposure Quotient : 6.938E-08



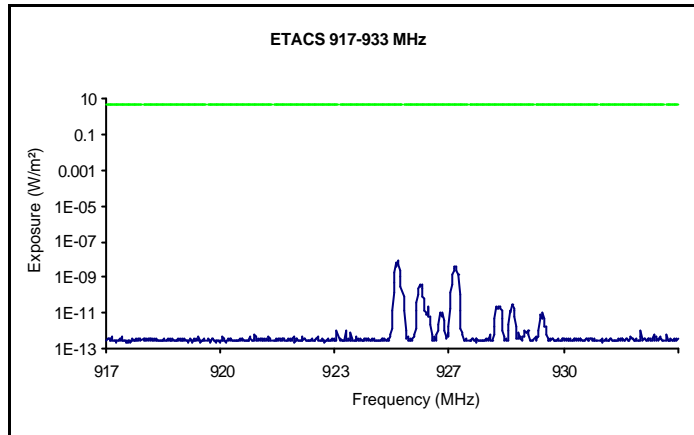
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,861.400	1.175E-04	9.31	1.263E-05
1,872.200	1.942E-05	9.36	2.074E-06
1,858.000	2.331E-06	9.29	2.509E-07
1,861.600	1.000E-06	9.31	1.075E-07
1,861.200	9.770E-07	9.31	1.050E-07
1,870.600	5.983E-07	9.35	6.397E-08
1,823.000	5.771E-07	9.12	6.331E-08
1,838.400	5.660E-07	9.19	6.157E-08
1,872.000	3.784E-07	9.36	4.043E-08
1,872.400	3.534E-07	9.36	3.775E-08

Band Exposure Quotient : 1.552E-05

Number of Frequencies Used in Quotient : 1128

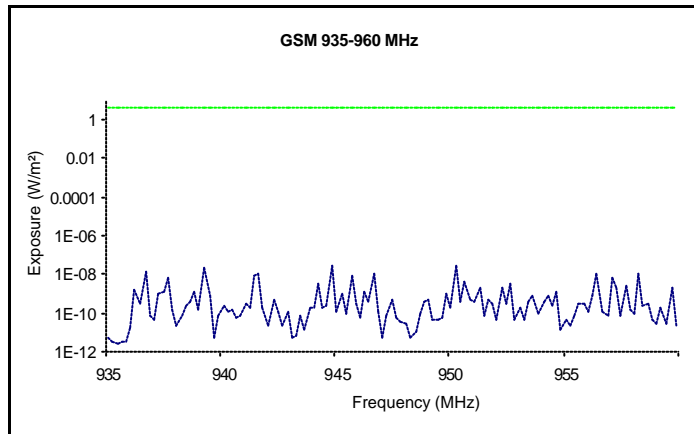
Total Band Exposure Quotient : 1.562E-05

Site: Wolstanton High School	Receiver:
Location: North west corner of playing field	Manufacturer: ROHDE&SCHWARZ
	Model: EB200
	Serial Number: 837.752/003,V02.31-4052.4654.
NGR: SJ 8492 4782 Taken from GPS	Antenna:
Start Time: 04 Jul 2001 11:11:31	Manufacturer: Rohde & Schwarz
Engineer: John Taylor	Model: HE200.4050.3609.02
	Serial Number: 728264/025



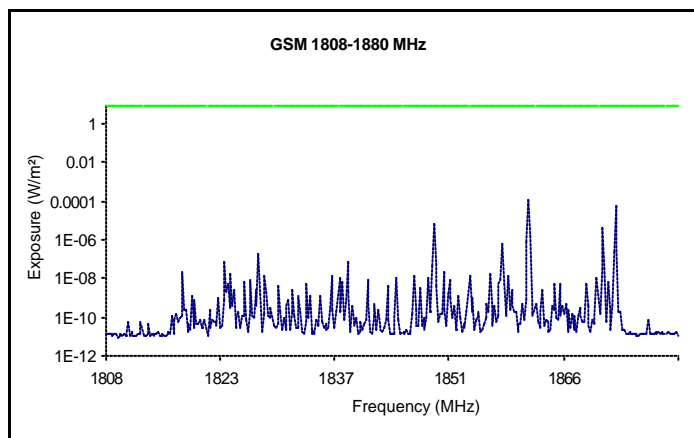
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
925.200	7.929E-09	4.63	1.714E-09
925.150	5.877E-09	4.63	1.270E-09
925.225	5.613E-09	4.63	1.213E-09
926.825	4.274E-09	4.63	9.223E-10
925.175	3.708E-09	4.63	8.016E-10
926.800	3.555E-09	4.63	7.671E-10
926.775	2.696E-09	4.63	5.819E-10
926.850	2.575E-09	4.63	5.557E-10
926.750	2.243E-09	4.63	4.840E-10
925.250	2.038E-09	4.63	4.406E-10

Band Exposure Quotient : 1.118E-08



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	2.782E-08	4.75	5.855E-09
945.000	2.748E-08	4.72	5.816E-09
939.400	2.532E-08	4.70	5.390E-09
936.800	1.351E-08	4.68	2.885E-09
946.800	1.150E-08	4.73	2.430E-09
958.400	1.077E-08	4.79	2.248E-09
941.800	1.037E-08	4.71	2.202E-09
956.600	1.025E-08	4.78	2.142E-09
941.600	9.028E-09	4.71	1.918E-09
945.800	8.706E-09	4.73	1.841E-09

Band Exposure Quotient : 4.566E-08



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,861.400	1.175E-04	9.31	1.263E-05
1,872.200	5.863E-05	9.36	6.264E-06
1,849.400	8.148E-06	9.25	8.811E-07
1,870.600	4.236E-06	9.35	4.529E-07
1,861.600	1.514E-06	9.31	1.627E-07
1,861.200	8.126E-07	9.31	8.732E-08
1,858.000	6.131E-07	9.29	6.599E-08
1,872.400	5.228E-07	9.36	5.584E-08
1,872.000	2.333E-07	9.36	2.493E-08
1,827.400	1.716E-07	9.14	1.878E-08

Band Exposure Quotient : 2.072E-05

Number of Frequencies Used in Quotient : 1128

Total Band Exposure Quotient : 2.077E-05

Site: Wolstanton High School

Location: Main Gate

NGR: SJ 8503 4787 **Taken from GPS**
Start Time: 04 Jul 2001 11:37:18

Engineer: John Taylor

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

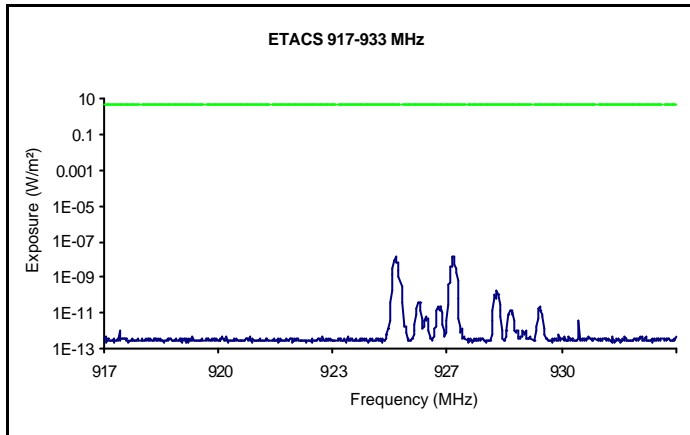
Serial Number: 837.752/003,V02.31-4052.4654.

Antenna:

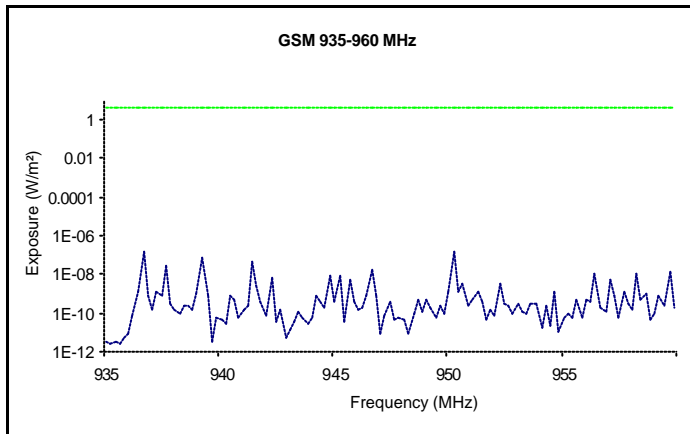
Manufacturer: Rohde & Schwarz

Model: HE200.4050.3609.02

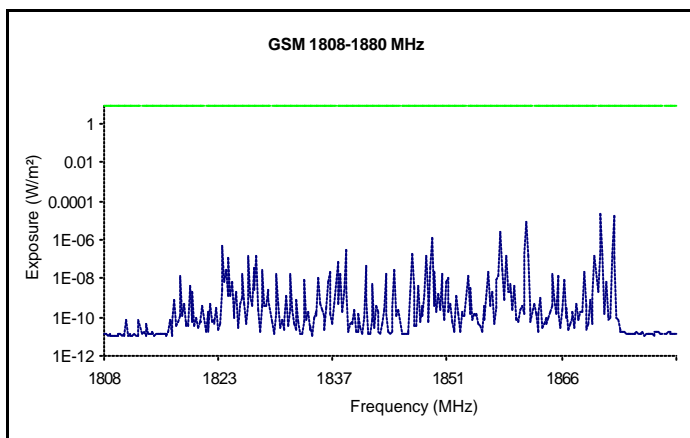
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m ²)	ICNIRP Limit (W/m ²)	Frequency Exposure Quotient
925.200	1.619E-08	4.63	3.499E-09
926.825	1.552E-08	4.63	3.349E-09
926.800	1.321E-08	4.63	2.850E-09
926.775	1.073E-08	4.63	2.316E-09
925.175	9.103E-09	4.63	1.968E-09
925.150	8.301E-09	4.63	1.795E-09
925.250	6.299E-09	4.63	1.362E-09
925.225	5.878E-09	4.63	1.271E-09
926.850	5.381E-09	4.63	1.161E-09
926.750	3.808E-09	4.63	8.219E-10

Band Exposure Quotient : 2.463E-08


Frequency (MHz)	Maximum Exposure (W/m ²)	ICNIRP Limit (W/m ²)	Frequency Exposure Quotient
936.800	1.415E-07	4.68	3.021E-08
950.400	1.243E-07	4.75	2.615E-08
939.400	7.645E-08	4.70	1.628E-08
941.600	5.077E-08	4.71	1.078E-08
937.800	2.896E-08	4.69	6.176E-09
946.800	1.782E-08	4.73	3.763E-09
959.800	1.562E-08	4.80	3.256E-09
958.400	1.029E-08	4.79	2.147E-09
956.600	9.786E-09	4.78	2.046E-09
945.400	9.537E-09	4.73	2.018E-09

Band Exposure Quotient : 1.165E-07


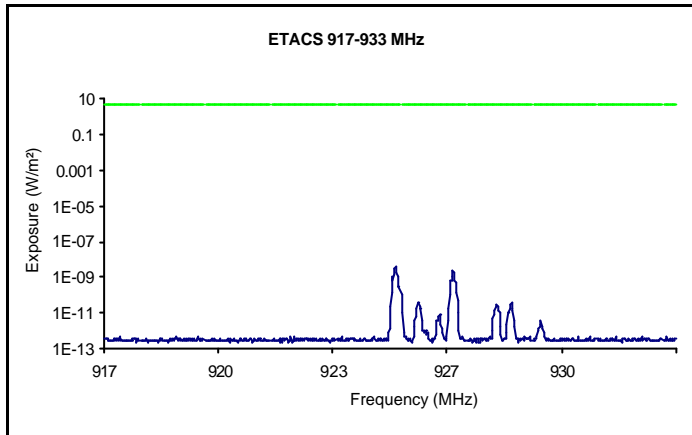
Frequency (MHz)	Maximum Exposure (W/m ²)	ICNIRP Limit (W/m ²)	Frequency Exposure Quotient
1,870.600	2.123E-05	9.35	2.270E-06
1,872.200	1.730E-05	9.36	1.849E-06
1,861.400	9.334E-06	9.31	1.003E-06
1,858.000	2.676E-06	9.29	2.881E-07
1,849.400	1.205E-06	9.25	1.303E-07
1,823.000	4.691E-07	9.12	5.146E-08
1,838.400	2.837E-07	9.19	3.086E-08
1,870.400	2.274E-07	9.35	2.432E-08
1,846.800	1.946E-07	9.23	2.107E-08
1,861.200	1.862E-07	9.31	2.000E-08

Band Exposure Quotient : 5.922E-06

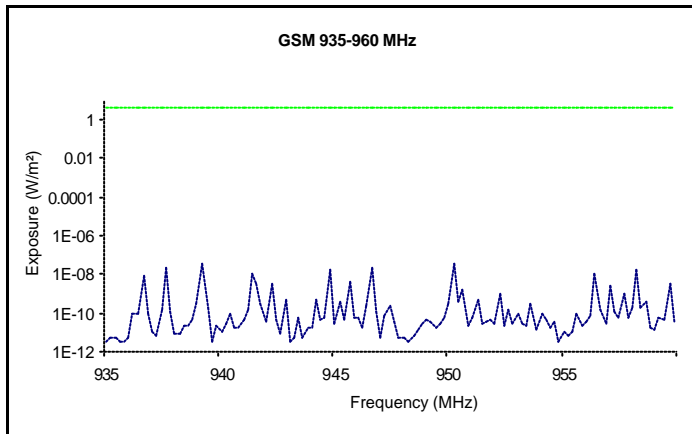
Number of Frequencies Used in Quotient : 1128

Total Band Exposure Quotient : 6.063E-06

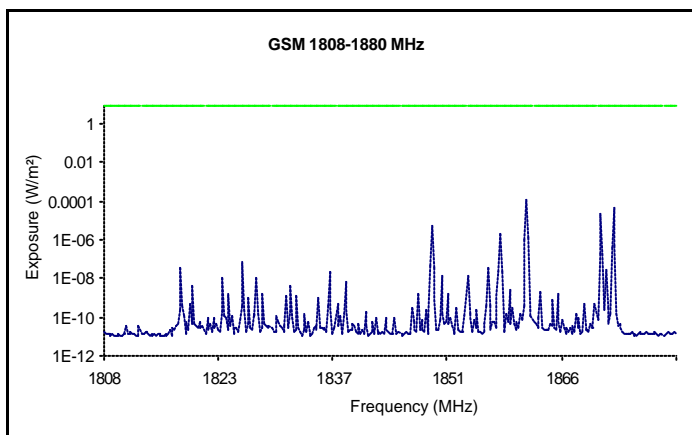
Site: Wolstanton High School	Receiver:
Location: Grass area in left hand quad	Manufacturer: ROHDE&SCHWARZ
	Model: EB200
	Serial Number: 837.752/003,V02.31-4052.4654.
NGR: SJ 8508 4783 Taken from GPS	Antenna:
Start Time: 04 Jul 2001 12:06:05	Manufacturer: Rohde & Schwarz
	Model: HE200.4050.3609.02
Engineer: John Taylor	Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
925.200	3.542E-09	4.63	7.656E-10
925.175	2.625E-09	4.63	5.675E-10
926.800	2.046E-09	4.63	4.414E-10
925.225	1.816E-09	4.63	3.927E-10
926.825	1.782E-09	4.63	3.845E-10
925.150	1.443E-09	4.63	3.119E-10
925.250	1.070E-09	4.63	2.312E-10
926.775	1.002E-09	4.63	2.162E-10
925.100	9.101E-10	4.63	1.968E-10
926.850	7.778E-10	4.63	1.678E-10
Band Exposure Quotient :			4.714E-09



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	3.930E-08	4.75	8.270E-09
939.400	3.745E-08	4.70	7.972E-09
937.800	2.147E-08	4.69	4.578E-09
946.800	2.142E-08	4.73	4.525E-09
958.400	2.006E-08	4.79	4.187E-09
945.000	1.945E-08	4.72	4.117E-09
941.600	1.218E-08	4.71	2.587E-09
956.600	1.204E-08	4.78	2.517E-09
936.800	8.726E-09	4.68	1.863E-09
945.800	4.465E-09	4.73	9.441E-10
Band Exposure Quotient :			4.656E-08

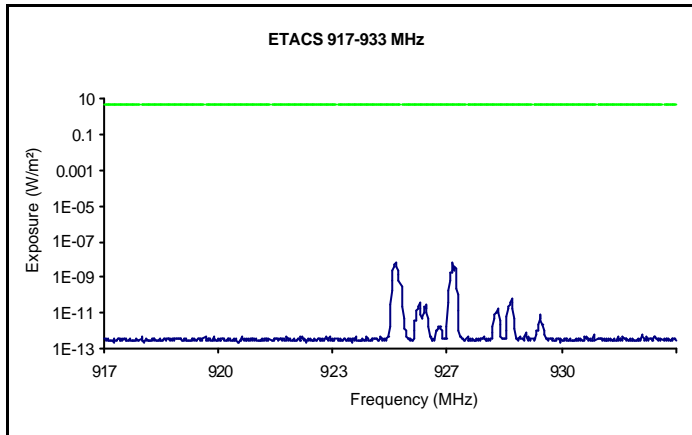


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,861.400	1.148E-04	9.31	1.234E-05
1,872.200	4.766E-05	9.36	5.091E-06
1,870.600	2.223E-05	9.35	2.377E-06
1,849.400	5.768E-06	9.25	6.238E-07
1,858.000	2.126E-06	9.29	2.288E-07
1,861.600	1.203E-06	9.31	1.292E-07
1,861.200	1.096E-06	9.31	1.178E-07
1,872.400	4.449E-07	9.36	4.753E-08
1,872.000	3.614E-07	9.36	3.861E-08
1,870.400	1.765E-07	9.35	1.888E-08
Band Exposure Quotient :			2.108E-05

Number of Frequencies Used in Quotient : 1128

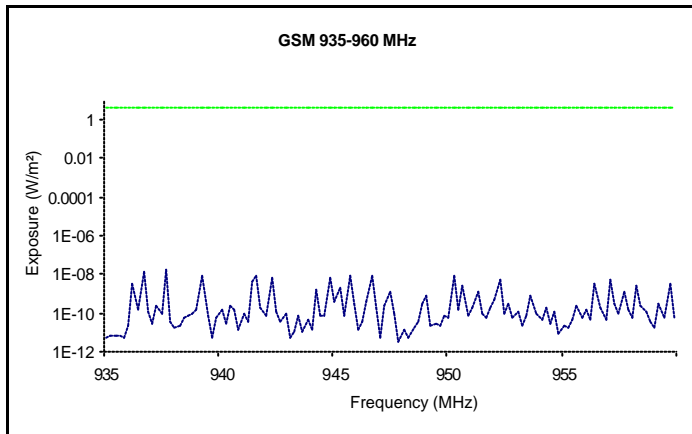
Total Band Exposure Quotient : **2.113E-05**

Site: Wolstanton High School	Receiver:
Location: First floor corridor outside room 44	Manufacturer: ROHDE&SCHWARZ
	Model: EB200
	Serial Number: 837.752/003,V02.31-4052.4654.
NGR: SJ85084783 Taken from GPS	Antenna:
Start Time: 04 Jul 2001 12:31:32	Manufacturer: Rohde & Schwarz
	Model: HE200.4050.3609.02
Engineer: John Taylor	Serial Number: 728264/025



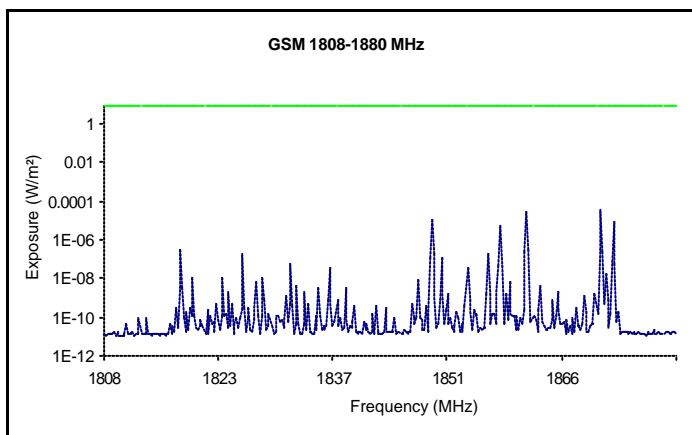
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
925.200	7.572E-09	4.63	1.637E-09
926.800	6.037E-09	4.63	1.303E-09
925.175	5.238E-09	4.63	1.132E-09
925.150	3.973E-09	4.63	8.589E-10
926.850	3.638E-09	4.63	7.850E-10
925.225	3.542E-09	4.63	7.656E-10
926.875	3.097E-09	4.63	6.682E-10
925.250	2.340E-09	4.63	5.058E-10
926.775	2.243E-09	4.63	4.840E-10
926.825	2.093E-09	4.63	4.517E-10

Band Exposure Quotient : 1.100E-08



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
937.800	2.050E-08	4.69	4.372E-09
936.800	1.552E-08	4.68	3.313E-09
945.800	9.116E-09	4.73	1.928E-09
950.400	8.211E-09	4.75	1.728E-09
939.400	8.006E-09	4.70	1.704E-09
946.800	7.777E-09	4.73	1.643E-09
941.800	7.688E-09	4.71	1.633E-09
942.400	7.021E-09	4.71	1.490E-09
945.000	6.442E-09	4.72	1.363E-09
957.200	5.385E-09	4.79	1.125E-09

Band Exposure Quotient : 2.913E-08



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.600	3.288E-05	9.35	3.516E-06
1,861.400	2.631E-05	9.31	2.826E-06
1,849.400	1.384E-05	9.25	1.496E-06
1,872.200	9.509E-06	9.36	1.016E-06
1,858.000	5.721E-06	9.29	6.159E-07
1,817.800	3.143E-07	9.09	3.458E-08
1,861.600	3.092E-07	9.31	3.322E-08
1,870.400	2.798E-07	9.35	2.992E-08
1,870.800	2.495E-07	9.35	2.667E-08
1,861.200	2.041E-07	9.31	2.193E-08

Band Exposure Quotient : 9.750E-06

Number of Frequencies Used in Quotient : 1128

Total Band Exposure Quotient : 9.791E-06

Glossary

Location:

The point at which the readings are taken. Each location is uniquely identified by its NGR coordinates and its timestamp. A description of the location should be sufficient to allow the position to be identified at a later date.

NGR :

The coordinates of the location. In this survey they must be specified using a 100km tile identifier followed by a 4-digit easting and northing as defined in the Ordnance Survey National Grid Reference (NGR) system. N.B. This gives the position of a location to 10 metre precision. E.g. TQ 3056 2184

Start Time:

The date and time at which the receiver started taking its measurements at a location.

Antenna:

The antenna device connected to the receiver. This is known by its serial number, type and manufacturer, and has an associated calibration (see definition).

Calibration:

A set of frequency (Hz) and K-factor (dB) pairs that define the gain characteristics of the antenna. Linear interpolation is used to obtain K-factor values for intermediate frequencies.

Sweep Band:

The measurements are taken at regular frequency intervals within a band of frequencies. A sweep band is defined by the band title (which appears on each graph), start frequency, end frequency, frequency step, bandwidth and dwell time.

Exposure

This is the name given to the measured results. The maximum electric field strength values in decibel microvolts per metre (dB(μ V/m)) are converted to power density in watts per square metre (W/m²).

Table Data:

The 'Maximum Exposure' column consists of the ten highest exposure values in a band. Accompanying them are the frequency at which they occurred, the ICNIRP limit at that frequency (see definition), and the frequency exposure quotient (see definition).

ICNIRP:

International Commission for Non-Ionizing Radiation Protection

ICNIRP Limit

This is a guideline for the maximum permitted power density of non-ionizing radiation for public exposure. The guideline is frequency dependent and is currently defined as:

<i>Frequency</i>	<i>ICNIRP Limit</i>
Less than 400MHz	2W/m ²
400MHz to 2GHz	(f / 200)W/m ² , where f is frequency in MHz
2GHz to 300GHz	10 W/m ²

Frequency Exposure Quotient:

This is the ratio of the measured maximum electromagnetic power density to the ICNIRP limit at a given frequency. A value close to 1 signifies that exposure levels could be near to the maximum permitted at that frequency.

Band Exposure Quotient:

The sum of all the frequency exposure quotients in a band at a single location.

Total Band Exposure Quotient:

The sum of all the frequency exposure quotients in all bands at a single location.

Power Density:

The energy flowing from an antenna through a unit area normal to the direction of propagation in a unit time. This is measured in watts per square metre (W/m²).

GSM: Global System for Mobile communication

ETACS: Extended Total Access Communications System

TETRA: Terrestrial Trunked Radio

3G: Third Generation mobile phone services

1.000E-06 Exponential (or scientific) number format. Equal to one millionth

1.000E-09 Equal to one thousand millionth

1.000E-12 Equal to one million millionth.