

**Baldock Radio Station
Royston Road
Baldock
Herts SG7 6SH**



**Mobile Phone
Base-Station Audit**

**Audit Site: St Edmunds Catholic School
Nelson Road
Twickenham
Middlesex
TW2 7BB**

Work Performed by	
James Loughlin Field Manager	3G measurements & Report
Mike Reynolds Field Officer	3G measurements
JP T.I. Officer	2G measurements & 2G Report

Distribution List	
Lloyd Tailby	1
Mrs R Murphy	1
JP	1
Technical Manager	1
Case/Year file	2

The Office of Communications (Ofcom) took over the functions of the Radiocommunications Agency, the Independent Television Commission, and the Radio Authority (as well as the Office of Telecommunications and the Broadcasting Standards Commission) on 29th December 2003.

Ofcom is located at Riverside House, 2a Southwalk Bridge Road, London SE1 9HA. Tel: 020 7981 3000. Website: www.ofcom.org.uk

Baldock Radio Station forms part of the Operations Group of Ofcom. The station address remains at Royston Road, Baldock, Hertfordshire SG7 6SH.

Tel: 01462 428500, Fax: 01462 428510

Report Summary

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

The Office of Communications (Ofcom), originally the Radiocommunications Agency performed this survey of the RF emission environment in the vicinity of the site of St Edmunds Catholic School on 4th February 2004. Both second generation (2G) and third generation (3G) base station emissions were measured separately and the signal levels combined to calculate the Total Band Exposure as detailed below.

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

Summary of results:				
Location	* 2G Band Exposure	3G Band Exposure	Total Band Exposure	Relationship to ICNIRP Limit
Main Playground (North)	1.29E-03	5.09E-06	1.30E-03	1/772
Classroom 2K	6.95E-04	1.10E-04	8.05E-04	1/1243
Main Hall	2.41E-04	8.07E-05	3.22E-04	1/3109
Playing Field	2.25E-04	[note page 5]	2.25E-04	1/4444
Main Playground (South)	1.47E-04	1.61E-05	1.63E-04	1/6131
Year 6 Class	1.30E-05	6.18E-07	1.36E-05	1/73435
Main Reception Area	1.04E-05	5.94E-08	1.05E-05	1/95608

* Annex to this report

The site of the primary school was originally surveyed by a Technical Investigation Officer from the Kenley office on 31 October 2002. Since that survey a 3G base station has been installed at an existing base site close to St Edmunds Catholic School. The Operations group was tasked with re-auditing this site by Enforcement & Interference Policy Unit (EIPU) following a request from the school.

Again the Kenley office carried out the second 2G audit, while mobile team 2 from Baldock completed a concurrent 3G survey. The results from both have been combined to provide the summary of results on page 3.

At the school site the base station was scanned to ascertain the extent of 3G activity. A single transmission centred on 2.11190GHz was recorded.

At each location, this cell was scanned, a plot taken and the field strength measured. For each measurement the 3G exposure quotient has been calculated and added to the 2G exposure to provide the Total Exposure Quotient for each survey location.

Within the classroom 2K a further 3G measurement was requested on the left hand side of the main window (see page 6). The results show a reduction of 11 dB from the readings recorded at the right hand side of the main window.

This latter location (on the right side of the main window) had been used in both 2G audits and therefore has been included in conjunction with the 3G data to calculate the Total Exposure Quotient stated on page 3 for classroom 2K.

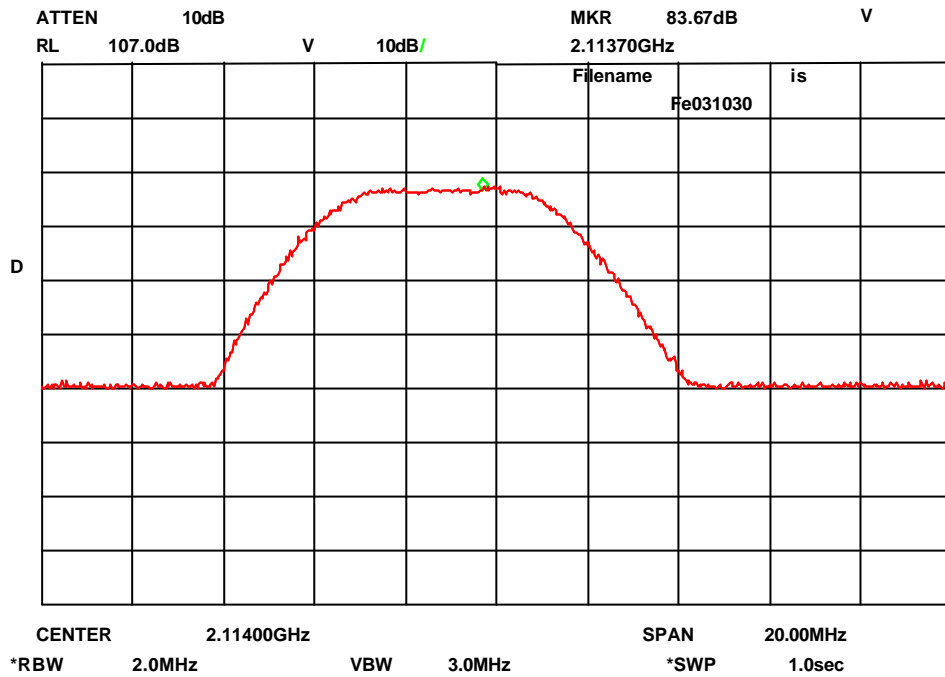
All the 3G measurement data is given below, while the 2G data is contained in the annex to this report.

Equipment Used			
Make	Type	Model	Serial No.
HP	Spectrum analyzer	8561A	2841A00171
EMCO	DRG horn antenna	3115	2158
Reynolds	12m cable	219-0088	0201-026

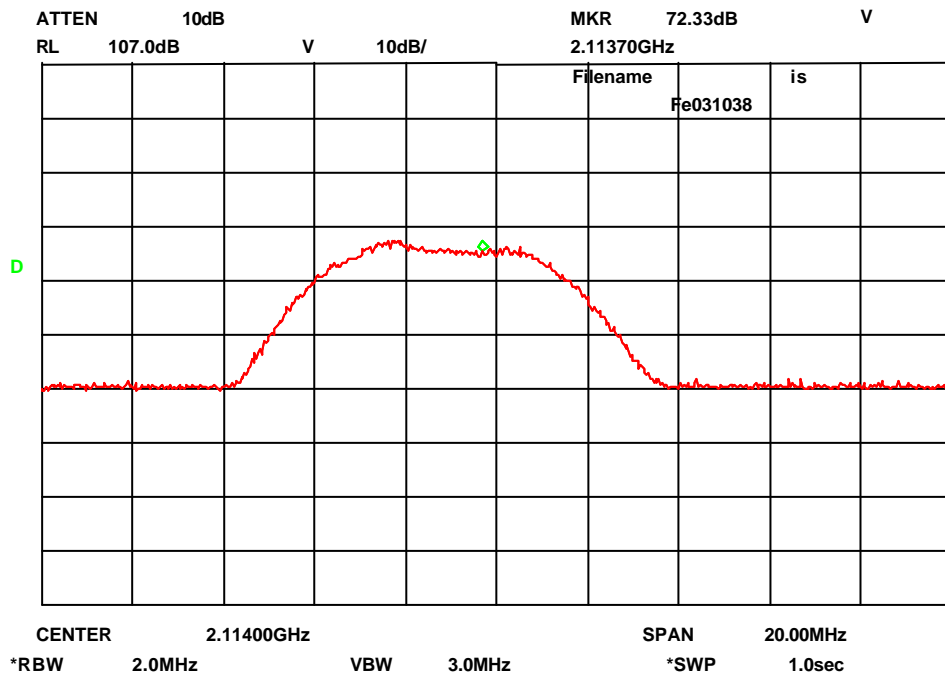
Location	Frequency	Fieldstrength	Fieldstrength	Fieldstrength	Power	Power	ICNIRP	3G	3G	2G	TOTAL	Related to
	MHz	dBuV/m	uV/m	V/m	W/m ²	W/m ²	W/m ²	Exposure	Exposure	Exposure	3G + 2G	
								Quotient	Quotient	Quotient	Exp. Quot.	ICNIRP limit
Classroom 2K (RHS) TQ 1388 7382	2113.7	116.17	643,428.1	0.643428	0.0010981422	0.0010981	10	0.000109814220	1.10E-04	6.95E-04	8.05E-04	1/1243
Main Hall TQ 1391 7378	2111.63	114.83	551,442.2	0.551442	0.0008066002	0.0008066	10	0.000080660020	8.07E-05	2.41E-04	3.22E-04	1/3109
Main Playground North TQ 1394 7383	2112.9	102.83	138,516.0	0.138516	0.0000508931	5.089E-05	10	0.000005089310	5.09E-06	1.29E-03	1.30E-03	1/772
Main Playground South TQ 1394 7385	2113.67	107.83	246,320.2	0.246320	0.0001609378	0.0001609	10	0.000016093780	1.61E-05	1.47E-04	1.63E-04	1/6131
Main Reception Area TQ 1388 7384	2112.27	83.5	14,962.4	0.014962	0.0000005938	5.938E-07	10	0.000000059380	5.94E-08	1.04E-05	1.05E-05	1/95608
Year 6 Class TQ 1386 7380	2111.43	93.67	48,250.3	0.048250	0.0000061752	6.175E-06	10	0.000000617520	6.18E-07	1.30E-05	1.36E-05	1/73435
Playing field - furthest point from mast			1.0	0.000001	0.0000000000	0	10	0.000000000000	[note 1]	2.25E-04	2.25E-04	1/4444

Note 1: The 3G measuring equipment requires mains power which is available from the laboratory vehicle. The state of the waterlogged playing field meant that the vehicle could not gain access to this location. This precluded a 3G measurement at the furthest location from the mast

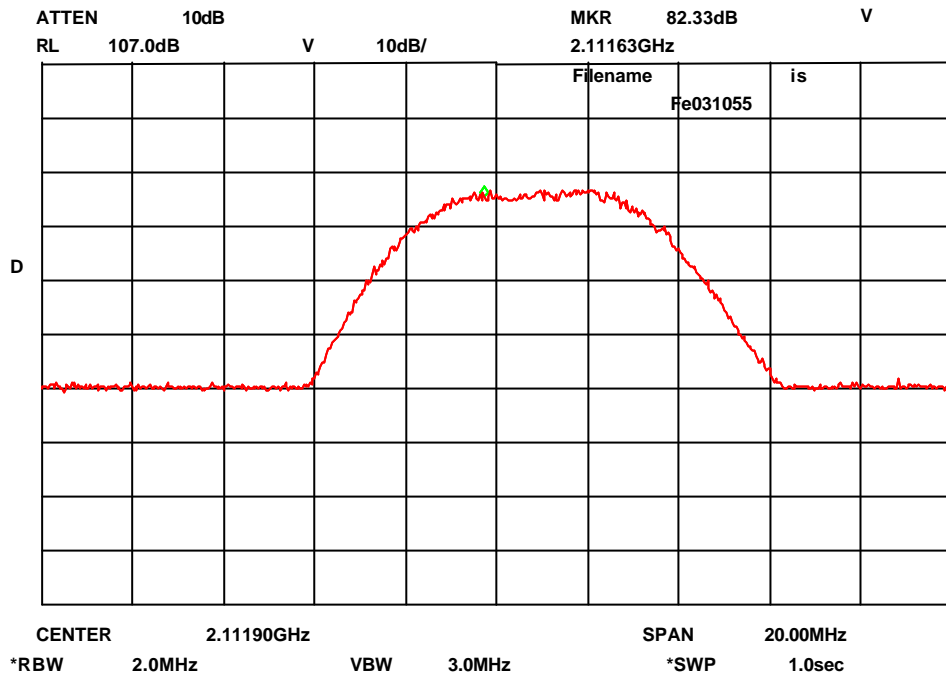
Classroom 2K (Right hand side of main window)



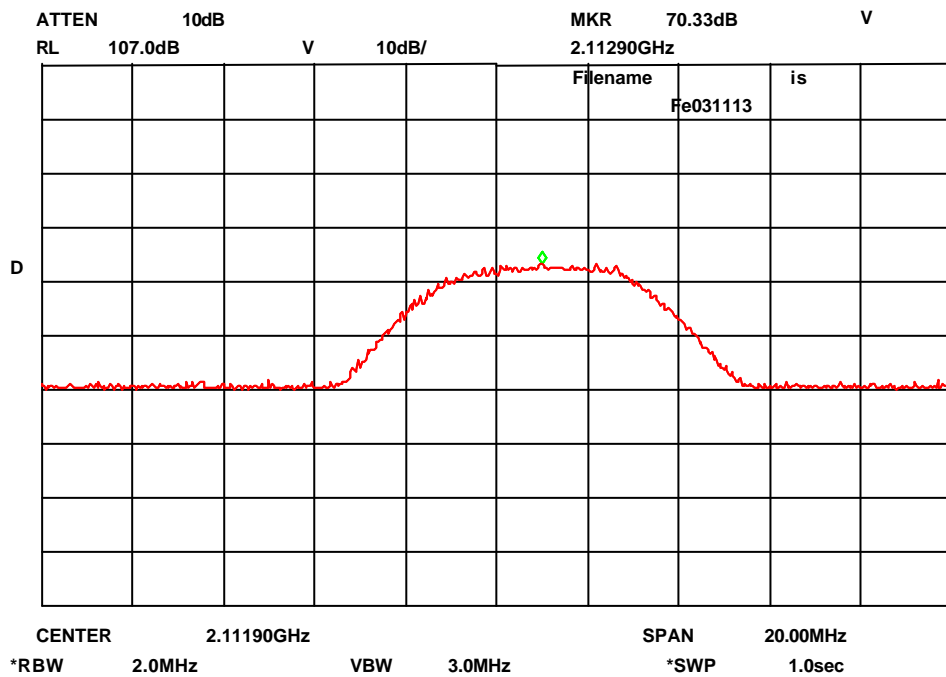
Classroom 2K (Left hand side of main window)



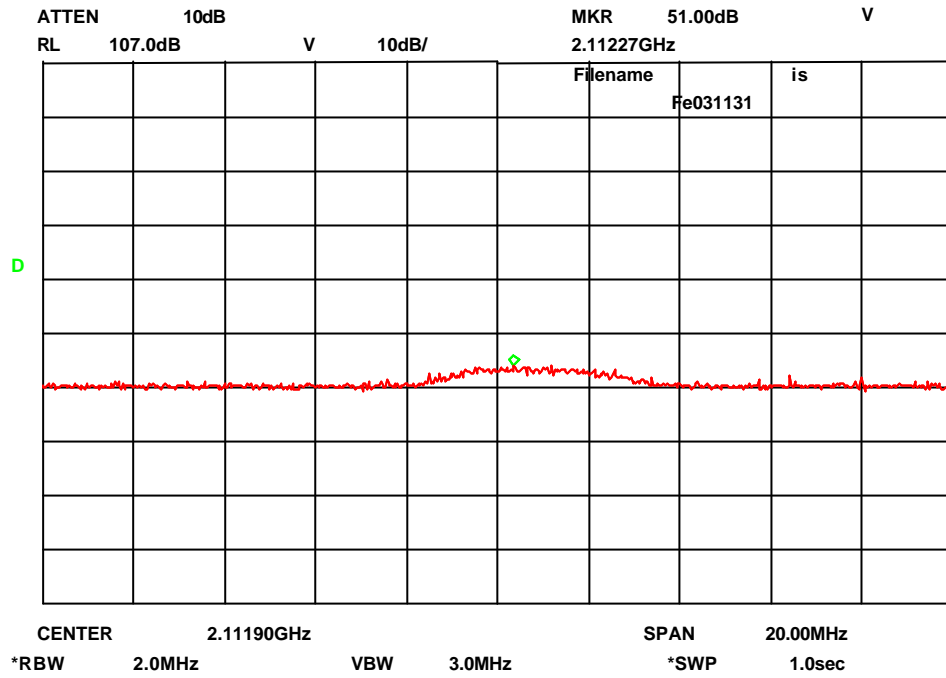
Main Hall



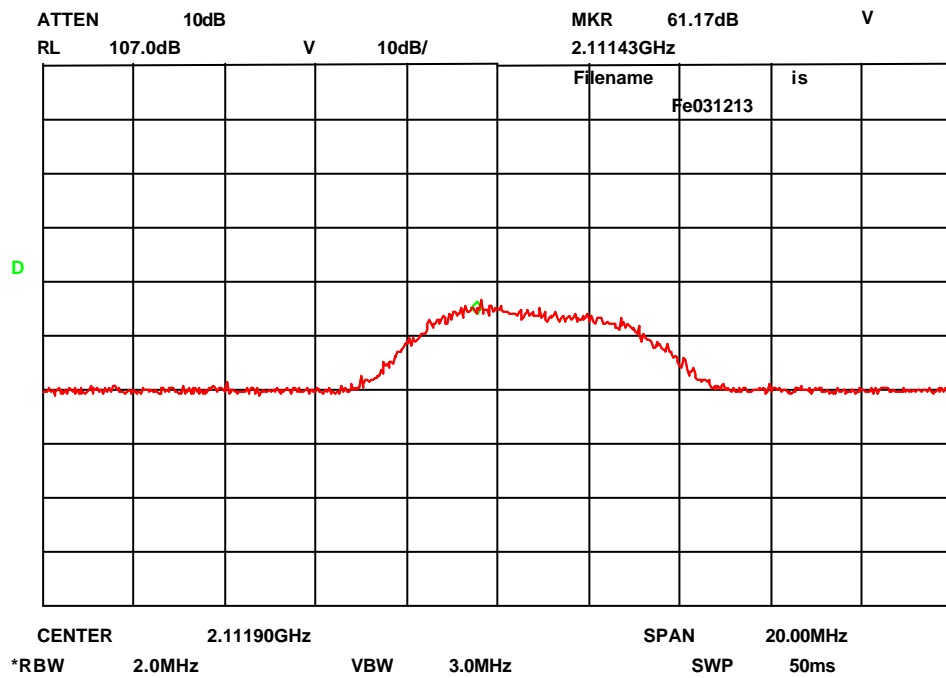
Main Playground (North)



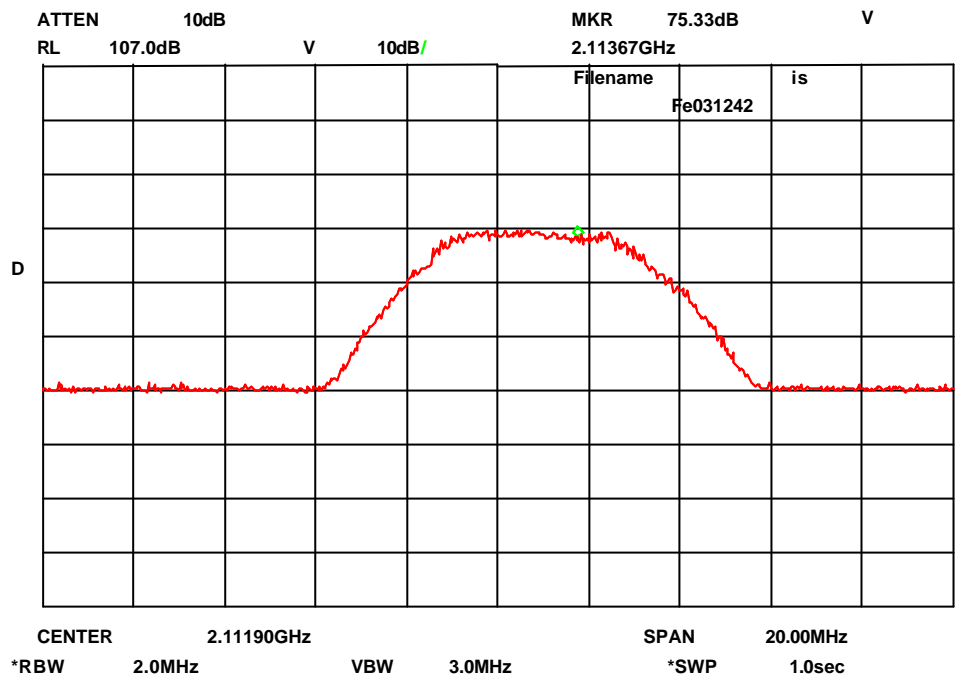
Main Reception Area



Year 6 Class



Main Playground (South)



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2G Mobile Phone Base-Station Audit

Mobile Phone Base-Station Audit

Audit site: St Edmunds Catholic School
Nelson Road
Twickenham
Middlesex
TW2 7BB

In 2000 the Government asked the Radiocommunications Agency to implement a national measurement programme to ensure that emissions from cellular base stations do not exceed the guidelines for public maximum exposure set by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). Ofcom took over the functions of the Radiocommunications Agency, along with those of the Independent Television Commission, Radio Authority, Ofcom and Broadcasting standards Commission, on 29 December 2003.

Electric field strength measurements made in various bands are referenced to and presented alongside the relevant ICNIRP 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. The green line on each graph indicates the ICNIRP guideline 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.

Further explanation of the results and their context within the ICNIRP guidelines can be provided by the Ofcom officers at the time of the audit or by contacting Ofcom on 0845 456 3000, or by email at contact@ofcom.org.uk. Results taken from all audit sites and further information on the audit programme can be found on the Ofcom website at www.ofcom.org.uk

Report Summary

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

Ofcom performed this survey of the RF emission environment prevailing in the vicinity of St Edmunds Catholic School on 3 February 2004.

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	Relationship to ICNIRP Limit
MAIN PLAYGROUND NORTH	1.29E-03	1/777
CLASSROOM 2K	6.95E-04	1/1439
MAIN HALL	2.41E-04	1/4148
FURTHEST POINT FROM MAST.PLAYING FEILD.	2.25E-04	1/4450
MAIN PLAYGROUND SOUTH	1.47E-04	1/6785
YEAR 6 CLASS	1.30E-05	1/77167
MAIN RECEPTION AREA	1.04E-05	1/95835

Issued on behalf of Ofcom.

Issued by:

Received by:

JP
Radiocommunications Specialist

MRS RITA MURPHY
HEAD TEACHER

Site: ST EDMUNDS CATHOLIC SCHOOL

Location: MAIN PLAYGROUND SOUTH

NGR: TQ 1394 7385 **Taken from GPS**

Start Time: 03 February 2004 10:20:40

Officer: JP

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

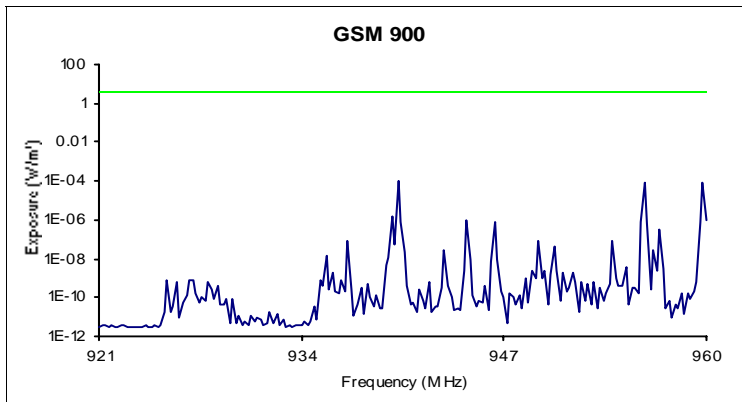
Serial Number: 837.752/028

Antenna:

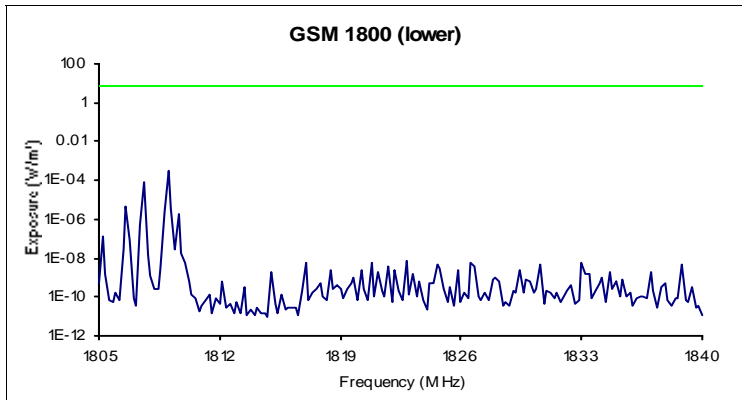
Manufacturer: Rohde & Schwarz

Model: HE200

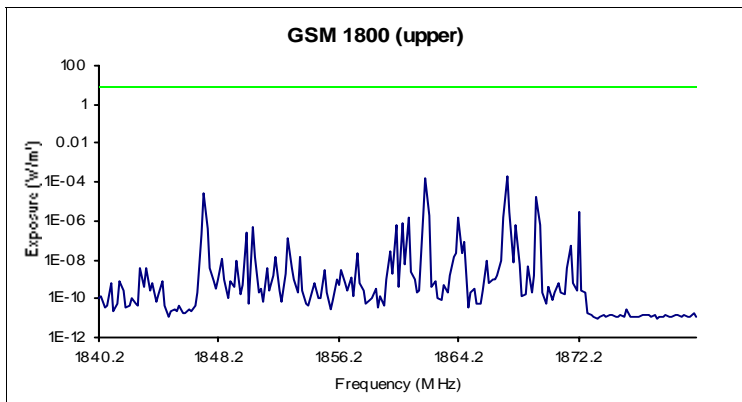
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
940.200	1.06E-04	4.70	2.25E-05
956.000	8.51E-05	4.78	1.78E-05
959.800	7.65E-05	4.80	1.59E-05
939.800	1.39E-06	4.70	2.96E-07
960.000	9.64E-07	4.80	2.01E-07
944.600	8.68E-07	4.72	1.84E-07
959.600	8.58E-07	4.80	1.79E-07
940.400	8.40E-07	4.70	1.79E-07
955.800	7.24E-07	4.78	1.52E-07
946.400	7.09E-07	4.73	1.50E-07
Band Exposure Quotient:			5.79E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	2.82E-04	9.04	3.12E-05
1,807.600	7.94E-05	9.04	8.78E-06
1,806.600	4.46E-06	9.03	4.93E-07
1,809.200	3.47E-06	9.05	3.84E-07
1,808.800	2.63E-06	9.04	2.91E-07
1,809.600	1.82E-06	9.05	2.02E-07
1,807.400	4.57E-07	9.04	5.05E-08
1,805.200	1.41E-07	9.03	1.56E-08
1,806.800	8.30E-08	9.03	9.19E-09
1,806.400	2.94E-08	9.03	3.26E-09
Band Exposure Quotient:			4.15E-05



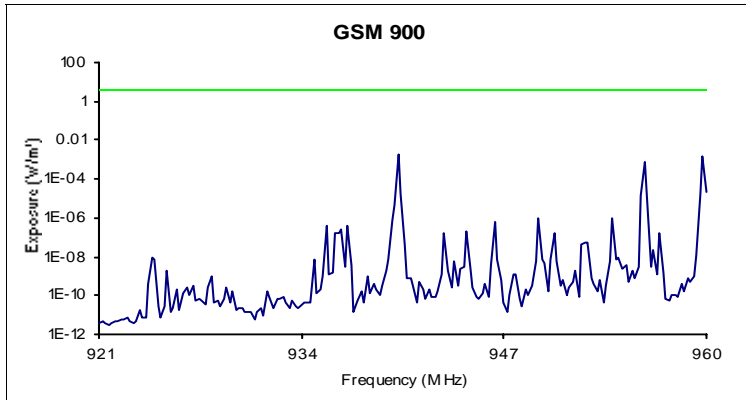
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	2.11E-04	9.34	2.26E-05
1,862.000	1.74E-04	9.31	1.87E-05
1,847.200	2.69E-05	9.24	2.91E-06
1,869.400	1.64E-05	9.35	1.76E-06
1,867.600	3.12E-06	9.34	3.35E-07
1,872.200	2.74E-06	9.36	2.93E-07
1,862.200	1.95E-06	9.31	2.10E-07
1,861.800	1.91E-06	9.31	2.05E-07
1,867.200	1.60E-06	9.34	1.71E-07
1,860.800	1.58E-06	9.30	1.70E-07
Band Exposure Quotient:			4.80E-05

Total number of measurements: 572

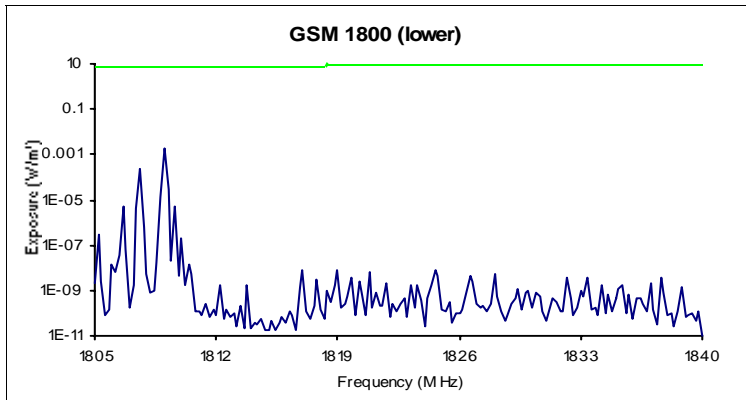
Total Band Exposure Quotient: 1.47E-04

Site: ST EDMUNDS CATHOLIC SCHOOL
Location: MAIN PLAYGROUND NORTH
NGR: TQ 1394 7383 **Taken from GPS**
Start Time: 03 February 2004 10:38:01
Officer: JP

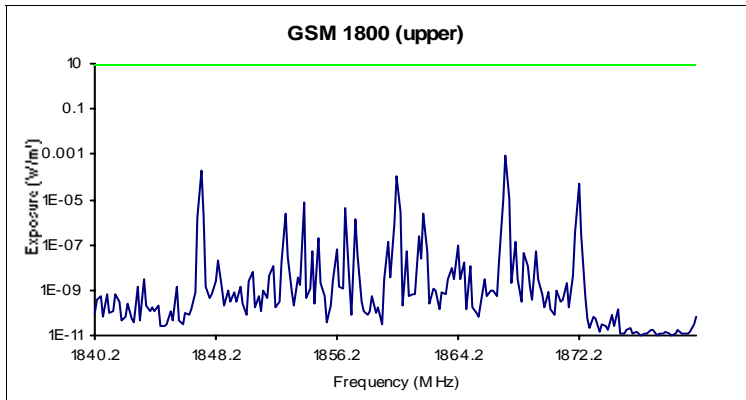
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/028
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
940.200	1.88E-03	4.70	4.00E-04
959.800	1.49E-03	4.80	3.11E-04
956.000	7.76E-04	4.78	1.62E-04
960.000	1.97E-05	4.80	4.10E-06
940.400	1.72E-05	4.70	3.65E-06
959.600	1.60E-05	4.80	3.33E-06
955.800	1.38E-05	4.78	2.89E-06
956.200	1.12E-05	4.78	2.35E-06
940.000	4.21E-06	4.70	8.95E-07
954.000	8.87E-07	4.77	1.86E-07
Band Exposure Quotient:			8.92E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	2.00E-03	9.04	2.21E-04
1,807.600	2.51E-04	9.04	2.78E-05
1,809.200	2.70E-05	9.05	2.98E-06
1,808.800	1.38E-05	9.04	1.53E-06
1,806.600	5.12E-06	9.03	5.66E-07
1,809.600	4.69E-06	9.05	5.18E-07
1,807.400	4.46E-06	9.04	4.94E-07
1,807.800	5.75E-07	9.04	6.36E-08
1,805.200	2.80E-07	9.03	3.11E-08
1,810.000	1.87E-07	9.05	2.06E-08
Band Exposure Quotient:			2.55E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	9.22E-04	9.34	9.87E-05
1,847.200	1.78E-04	9.24	1.92E-05
1,860.200	1.02E-04	9.30	1.10E-05
1,872.200	4.88E-05	9.36	5.21E-06
1,867.600	1.01E-05	9.34	1.08E-06
1,867.200	8.60E-06	9.34	9.21E-07
1,854.000	7.66E-06	9.27	8.27E-07
1,856.800	4.33E-06	9.28	4.67E-07
1,860.400	2.95E-06	9.30	3.17E-07
1,852.800	2.48E-06	9.26	2.67E-07
Band Exposure Quotient:			1.39E-04

Total number of measurements: 572

Total Band Exposure Quotient: **1.29E-03**

Site: ST EDMUNDS CATHOLIC SCHOOL

Location: MAIN HALL

NGR: TQ 1391 7378 **Taken from GPS**

Start Time: 03 February 2004 10:52:49

Officer: JP

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

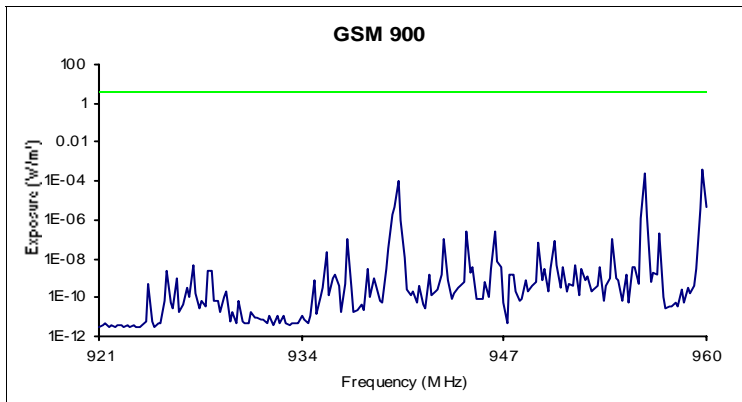
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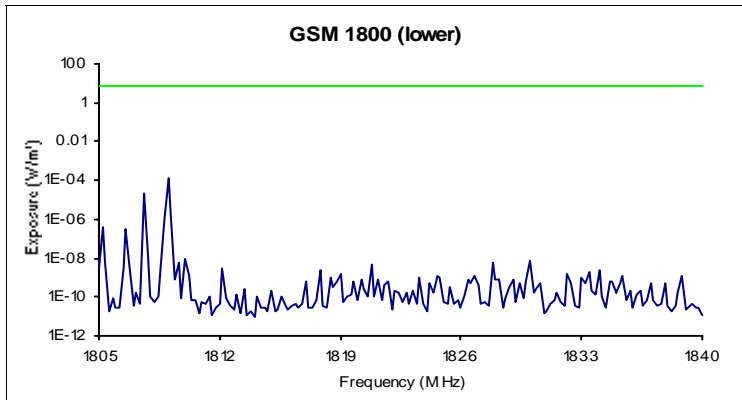
Manufacturer: Rohde & Schwarz

Model: HE200

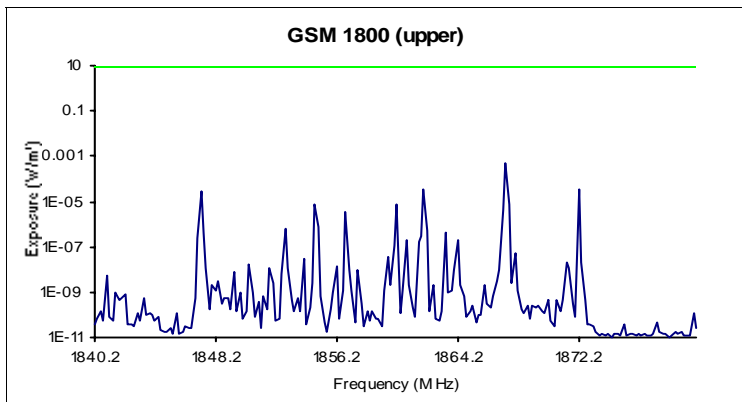
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
959.800	3.92E-04	4.80	8.18E-05
956.000	2.45E-04	4.78	5.14E-05
940.200	9.87E-05	4.70	2.10E-05
940.000	4.94E-06	4.70	1.05E-06
960.000	4.72E-06	4.80	9.83E-07
959.600	3.83E-06	4.80	7.99E-07
939.800	1.97E-06	4.70	4.19E-07
956.200	1.55E-06	4.78	3.24E-07
955.800	1.12E-06	4.78	2.35E-07
940.400	9.43E-07	4.70	2.01E-07
Band Exposure Quotient:			1.58E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	1.20E-04	9.04	1.33E-05
1,807.600	2.34E-05	9.04	2.59E-06
1,809.200	1.66E-06	9.05	1.84E-07
1,808.800	1.32E-06	9.04	1.46E-07
1,805.200	4.05E-07	9.03	4.49E-08
1,806.600	2.88E-07	9.03	3.19E-08
1,807.800	1.15E-08	9.04	1.27E-09
1,810.000	9.15E-09	9.05	1.01E-09
1,830.000	7.19E-09	9.15	7.85E-10
1,827.800	6.24E-09	9.14	6.82E-10
Band Exposure Quotient:			1.63E-05



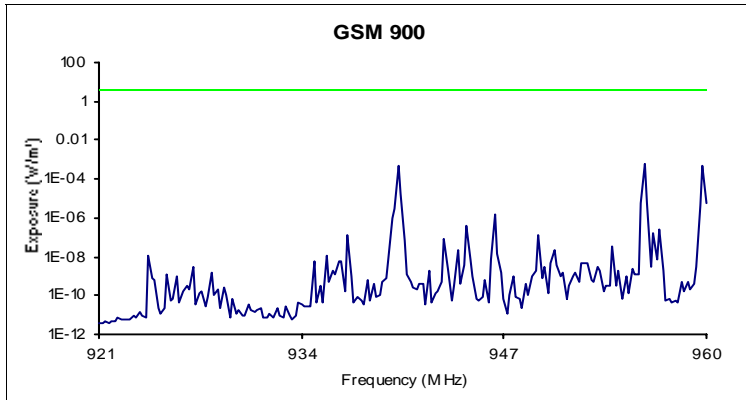
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	4.84E-04	9.34	5.18E-05
1,862.000	3.63E-05	9.31	3.90E-06
1,872.200	3.53E-05	9.36	3.77E-06
1,847.200	2.95E-05	9.24	3.19E-06
1,854.800	8.04E-06	9.27	8.67E-07
1,867.600	7.16E-06	9.34	7.66E-07
1,860.200	6.90E-06	9.30	7.42E-07
1,867.200	3.93E-06	9.34	4.21E-07
1,856.800	3.36E-06	9.28	3.62E-07
1,855.000	7.17E-07	9.28	7.73E-08
Band Exposure Quotient:			6.63E-05

Total number of measurements: 572

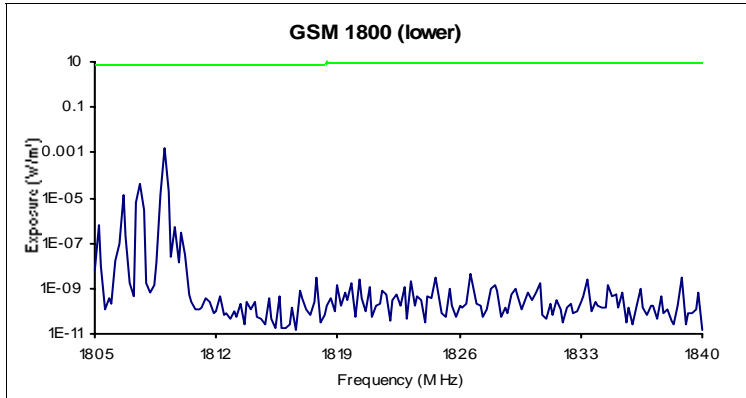
Total Band Exposure Quotient: **2.41E-04**

Site: ST EDMUNDS CATHOLIC SCHOOL
Location: CLASSROOM 2K
NGR: TQ 1388 7382 **Taken from GPS**
Start Time: 03 February 2004 11:07:38
Officer: JP

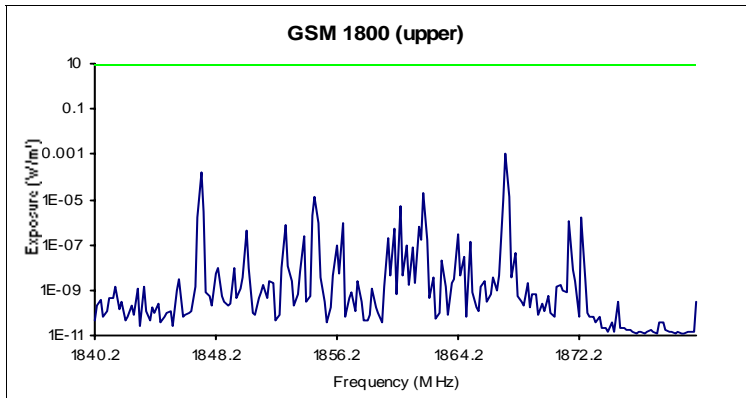
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/028
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
956.000	6.46E-04	4.78	1.35E-04
940.200	5.42E-04	4.70	1.15E-04
959.800	4.83E-04	4.80	1.01E-04
940.400	1.84E-05	4.70	3.91E-06
955.800	6.31E-06	4.78	1.32E-06
956.200	5.89E-06	4.78	1.23E-06
960.000	5.81E-06	4.80	1.21E-06
959.600	4.72E-06	4.80	9.83E-07
940.000	2.84E-06	4.70	6.05E-07
946.400	1.38E-06	4.73	2.92E-07
Band Exposure Quotient:			3.61E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	1.62E-03	9.04	1.80E-04
1,807.600	3.98E-05	9.04	4.40E-06
1,809.200	1.95E-05	9.05	2.16E-06
1,808.800	1.41E-05	9.04	1.56E-06
1,806.600	1.41E-05	9.03	1.56E-06
1,807.400	6.45E-06	9.04	7.14E-07
1,807.800	3.09E-06	9.04	3.42E-07
1,805.200	6.58E-07	9.03	7.28E-08
1,809.600	5.51E-07	9.05	6.09E-08
1,810.000	3.03E-07	9.05	3.35E-08
Band Exposure Quotient:			1.91E-04

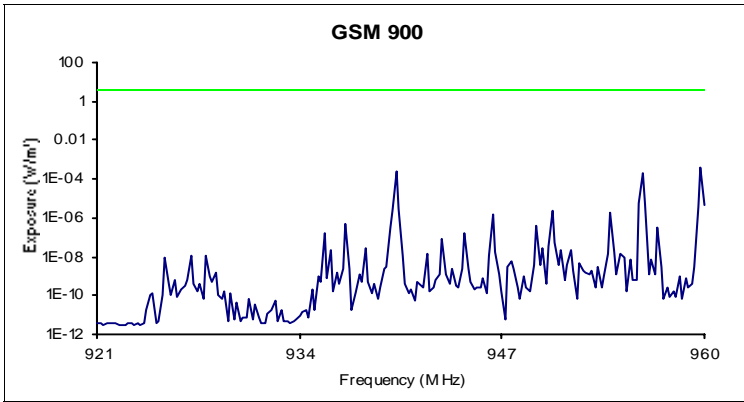


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	1.08E-03	9.34	1.16E-04
1,847.200	1.74E-04	9.24	1.88E-05
1,862.000	1.86E-05	9.31	2.00E-06
1,867.600	1.46E-05	9.34	1.56E-06
1,854.800	1.36E-05	9.27	1.47E-06
1,867.200	9.87E-06	9.34	1.06E-06
1,860.400	4.89E-06	9.30	5.26E-07
1,847.400	2.75E-06	9.24	2.98E-07
1,854.600	1.93E-06	9.27	2.08E-07
1,847.000	1.62E-06	9.23	1.75E-07
Band Exposure Quotient:			1.43E-04

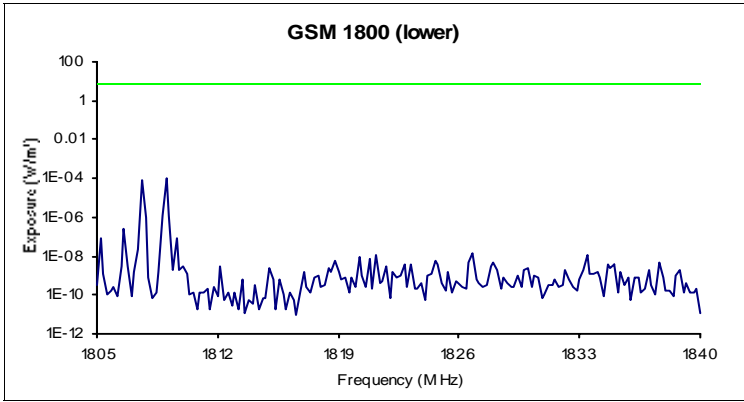
Total number of measurements: 572

Total Band Exposure Quotient: **6.95E-04**

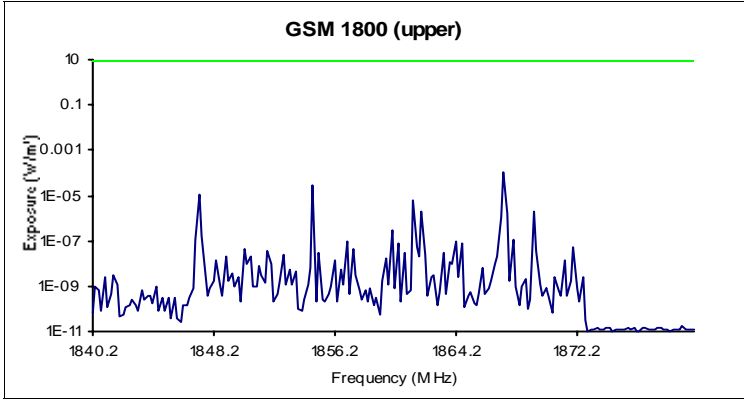
<p>Site: ST EDMUNDS CATHOLIC SCHOOL</p> <p>Location: FURTHEST POINT FROM MAST.PLAYING FEILD.</p> <p>NGR: TQ 1376 7382 Taken from GPS</p> <p>Start Time: 03 February 2004 11:31:02</p> <p>Officer: JP</p>	<p>Receiver:</p> <p>Manufacturer: ROHDE&SCHWARZ Model: EB200 Serial Number: 837.752/028</p> <p>Antenna:</p> <p>Manufacturer: Rohde & Schwarz Model: HE200 Serial Number: 758745/019</p>
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Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
959.800	3.92E-04	4.80	8.18E-05
940.200	2.54E-04	4.70	5.40E-05
956.000	2.09E-04	4.78	4.37E-05
955.800	5.89E-06	4.78	1.23E-06
956.200	5.37E-06	4.78	1.12E-06
960.000	4.61E-06	4.80	9.61E-07
959.600	4.01E-06	4.80	8.37E-07
940.400	3.27E-06	4.70	6.95E-07
950.200	2.60E-06	4.75	5.46E-07
940.000	2.16E-06	4.70	4.59E-07
Band Exposure Quotient:			1.87E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	1.03E-04	9.04	1.13E-05
1,807.600	7.58E-05	9.04	8.39E-06
1,809.200	1.32E-06	9.05	1.46E-07
1,808.800	1.12E-06	9.04	1.24E-07
1,807.800	8.91E-07	9.04	9.86E-08
1,806.600	2.81E-07	9.03	3.11E-08
1,809.600	7.97E-08	9.05	8.80E-09
1,805.200	7.55E-08	9.03	8.36E-09
1,807.400	2.40E-08	9.04	2.65E-09
1,826.800	1.39E-08	9.13	1.53E-09
Band Exposure Quotient:			2.02E-05

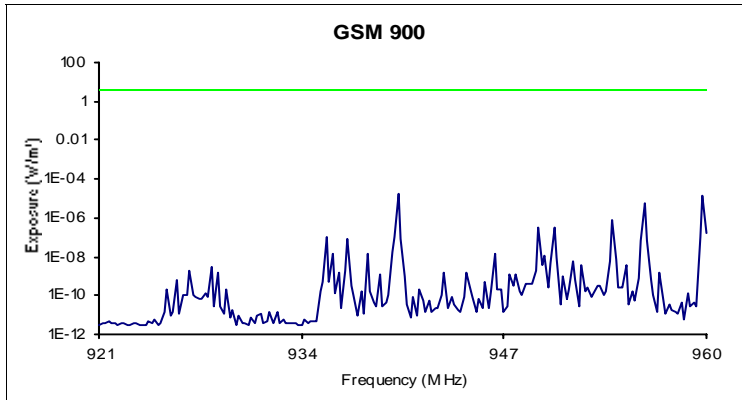


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	1.13E-04	9.34	1.21E-05
1,854.800	2.85E-05	9.27	3.07E-06
1,847.200	1.15E-05	9.24	1.24E-06
1,861.400	5.89E-06	9.31	6.33E-07
1,869.400	2.07E-06	9.35	2.22E-07
1,862.000	1.86E-06	9.31	2.00E-07
1,867.600	1.53E-06	9.34	1.64E-07
1,867.200	1.06E-06	9.34	1.13E-07
1,860.000	3.23E-07	9.30	3.47E-08
1,847.400	1.78E-07	9.24	1.92E-08
Band Exposure Quotient:			1.80E-05

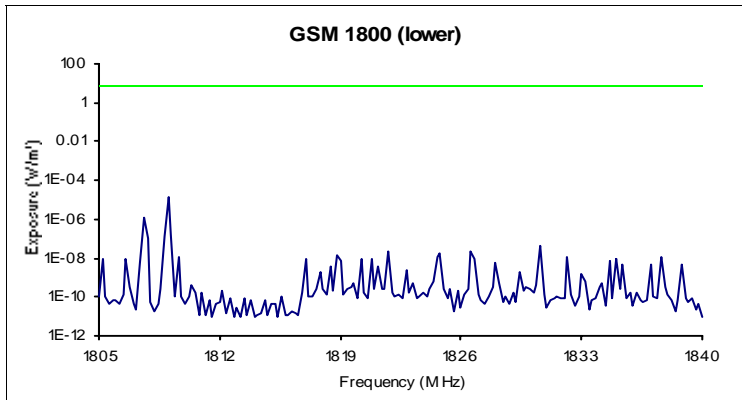
Total number of measurements: 572 Total Band Exposure Quotient: 2.25E-04

Site: ST EDMUNDS CATHOLIC SCHOOL
Location: YEAR 6 CLASS
NGR: TQ 1386 7380 **Taken from GPS**
Start Time: 03 February 2004 11:55:44
Officer: JP

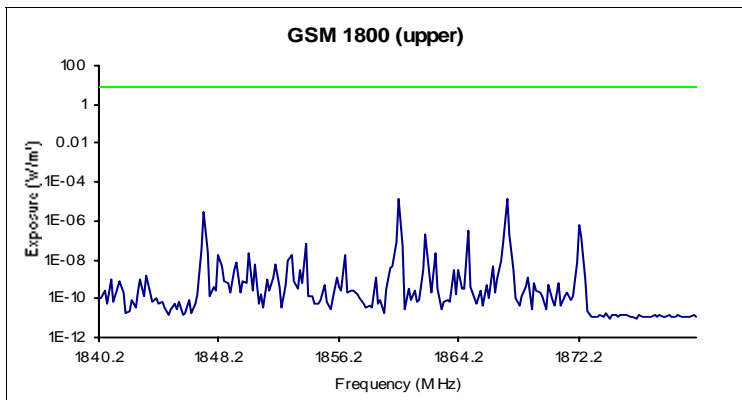
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/028
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
940.200	1.60E-05	4.70	3.40E-06
959.800	1.33E-05	4.80	2.77E-06
956.000	6.17E-06	4.78	1.29E-06
954.000	8.09E-07	4.77	1.70E-07
949.200	3.11E-07	4.75	6.56E-08
950.200	2.98E-07	4.75	6.27E-08
960.000	1.67E-07	4.80	3.49E-08
935.600	1.10E-07	4.68	2.34E-08
940.000	1.03E-07	4.70	2.20E-08
959.600	9.41E-08	4.80	1.96E-08
Band Exposure Quotient:			7.96E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	1.32E-05	9.04	1.46E-06
1,807.600	1.12E-06	9.04	1.24E-07
1,809.200	1.48E-07	9.05	1.64E-08
1,808.800	1.38E-07	9.04	1.53E-08
1,807.800	1.05E-07	9.04	1.16E-08
1,830.600	4.24E-08	9.15	4.63E-09
1,821.800	2.04E-08	9.11	2.24E-09
1,826.600	2.01E-08	9.13	2.20E-09
1,824.800	1.59E-08	9.12	1.75E-09
1,818.800	1.31E-08	9.09	1.44E-09
Band Exposure Quotient:			1.66E-06



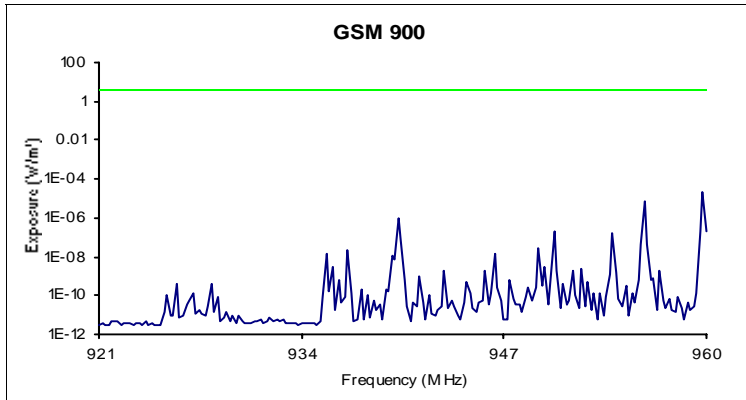
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,860.200	1.35E-05	9.30	1.45E-06
1,867.400	1.27E-05	9.34	1.36E-06
1,847.200	2.88E-06	9.24	3.12E-07
1,872.200	6.14E-07	9.36	6.56E-08
1,864.800	2.90E-07	9.32	3.11E-08
1,862.000	2.00E-07	9.31	2.15E-08
1,867.600	1.97E-07	9.34	2.11E-08
1,872.400	1.73E-07	9.36	1.85E-08
1,860.000	9.10E-08	9.30	9.78E-09
1,867.200	7.84E-08	9.34	8.40E-09
Band Exposure Quotient:			3.34E-06

Total number of measurements: 572

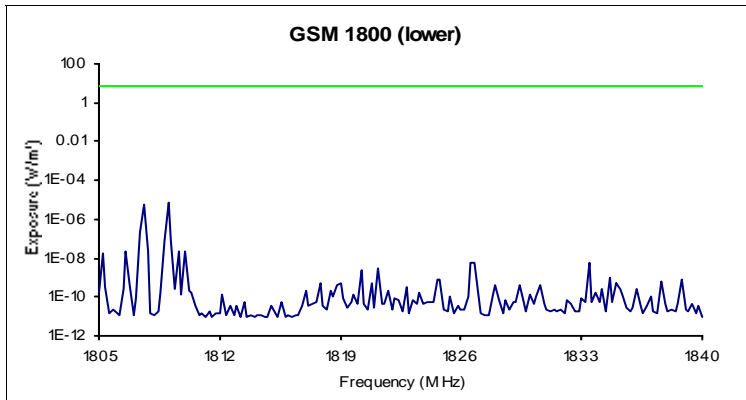
Total Band Exposure Quotient: **1.30E-05**

Site: ST EDMUNDS CATHOLIC SCHOOL
Location: MAIN RECEPTION AREA
NGR: TQ 1388 7384 **Taken from GPS**
Start Time: 03 February 2004 12:12:24
Officer: JP

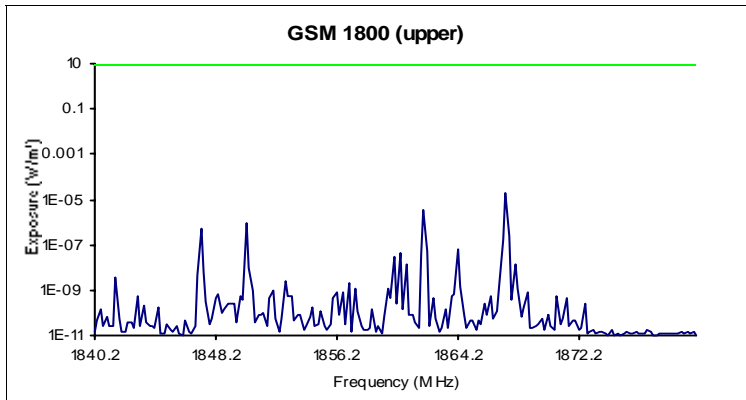
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/028
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
959.800	1.97E-05	4.80	4.10E-06
956.000	7.59E-06	4.78	1.59E-06
940.200	8.79E-07	4.70	1.87E-07
960.000	2.01E-07	4.80	4.20E-08
950.200	1.92E-07	4.75	4.05E-08
959.600	1.92E-07	4.80	4.00E-08
954.000	1.69E-07	4.77	3.54E-08
940.400	8.80E-08	4.70	1.87E-08
956.200	4.68E-08	4.78	9.79E-09
955.800	3.89E-08	4.78	8.14E-09
Band Exposure Quotient:			6.10E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.000	7.96E-06	9.04	8.80E-07
1,807.600	5.62E-06	9.04	6.22E-07
1,807.400	1.99E-07	9.04	2.21E-08
1,809.200	8.53E-08	9.05	9.43E-09
1,808.800	8.33E-08	9.04	9.21E-09
1,810.000	2.41E-08	9.05	2.66E-09
1,807.800	2.09E-08	9.04	2.31E-09
1,806.600	2.08E-08	9.03	2.31E-09
1,809.600	2.00E-08	9.05	2.21E-09
1,805.200	1.77E-08	9.03	1.96E-09
Band Exposure Quotient:			1.56E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,867.400	2.02E-05	9.34	2.16E-06
1,862.000	3.63E-06	9.31	3.90E-07
1,850.200	8.95E-07	9.25	9.67E-08
1,847.200	5.24E-07	9.24	5.67E-08
1,867.600	2.37E-07	9.34	2.54E-08
1,867.200	1.76E-07	9.34	1.88E-08
1,864.200	6.64E-08	9.32	7.12E-09
1,862.200	5.26E-08	9.31	5.64E-09
1,860.400	4.46E-08	9.30	4.79E-09
1,861.800	3.31E-08	9.31	3.56E-09
Band Exposure Quotient:			2.78E-06

Total number of measurements: 572

Total Band Exposure Quotient: **1.04E-05**

Glossary

- Site:** The building or area around which sets of measurements are taken
- Location:** The position within a site at which a single set of measurements is taken. A set of measurements consists of multiple scans of many frequencies within a number of bands
- Band:** A portion of the electromagnetic spectrum reserved for specific radio services
- NGR:** The Ordnance Survey national grid reference coordinates of the location. In this survey NGRs are specified to 8-digit (10-metre) resolution. E.g. SJ 9755 9888
- GPS:** The Global Positioning System
- Start Time:** The date and time at which the receiver started taking its measurements at a location
- Officer:** The name of the Ofcom representative who carried out the audit
- Receiver:** The receiver used to perform the measurements
- Antenna:** The antenna used to perform the measurements
- Exposure:** The maximum measured electric field strength (dB(μ V/m)) converted to an equivalent power density (W/m²)
- Power Density:** The electromagnetic energy flowing through a unit area normal to the direction of propagation in a unit time. Measured in Watts per square metre (W/m²)
- ICNIRP Limit:** The reference level given by the International Commission for Non-Ionizing Radiation Protection (ICNIRP) for general public exposure to electromagnetic fields

<i>Frequency</i>	<i>ICNIRP limit</i>
10MHz to 400 MHz	2 W/m ²
400MHz to 2GHz	f / 200 W/m ²
2GHz to 300GHz	10 W/m ²

(where f is frequency in MHz)

Frequency Exposure Quotient:

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

Band Exposure Quotient:

The sum of the frequency exposure quotients for a single band at a location

Total Band Exposure Quotient:

The sum of the frequency exposure quotients for all of the measured bands at a location

GSM: Global System for Mobile communication

ETACS: Extended Total Access Communications

TETRA: Terrestrial Trunked Radio

3G: Third Generation mobile-phone services

1.00E-03: Exponential (or 'scientific') number format. Equal to one thousandth

1.00E-06: Equal to one millionth

1.00E-09: Equal to one thousand-millionth

1.00E-12: Equal to one million-millionth