

**Baldock Radio Station
Royston Road
Baldock
Herts SG7 6SH
01462 428500**



**Mobile Phone
Base-Station Audit**

Audit Site: Site of proposed new primary school
Cherry Orchard Middle School
Birchfield Road East
Northampton
NN3 2TA

Work Performed by	
James Loughlin Field Manager	3G measurements & Report
Mike Reynolds Field Officer	3G measurements
John Taylor T.I. Officer	2G measurements & 2G Report
Dick Gilbert T.I. Officer	2G measurements

Distribution List	
Lloyd Tailby	1
Jill Ramshaw	1
Diane Farrell	1
Roy Littlecot	1
John Taylor	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 the proposed new primary school on the 15th January 2004. Both second generation (2G) and third generation (3G) base station emissions were measured separately and the signal levels combined to give 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
Centre of proposed new building	6.70E-04	4.75E-04	1.15E-03	1/877
Northwest corner	2.26E-04	3.53E-04	5.79E-04	1/1727
Northeast corner	2.95E-04	7.17E-05	3.67E-04	1/2717
Southeast corner	1.16E-04	1.38E-04	2.54E-04	1/3937
Existing tennis court	1.05E-04	2.31E-05	1.28E-04	1/7813
Southwest corner	6.73E-05	3.21E-05	9.94E-05	1/10060

* Annex to this report

The proposed site for the new primary school was originally surveyed by Technical Investigation Officers from Region 4 Peterborough office on 1 May 2003. Since that survey a 3G base station has been installed at an existing mast close to this site. The Agency was tasked with re-auditing both Cherry Orchard Middle School and Weston Favell Lower School.

Again the Peterborough 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.

Initially the base station was scanned to ascertain the extent of 3G activity.

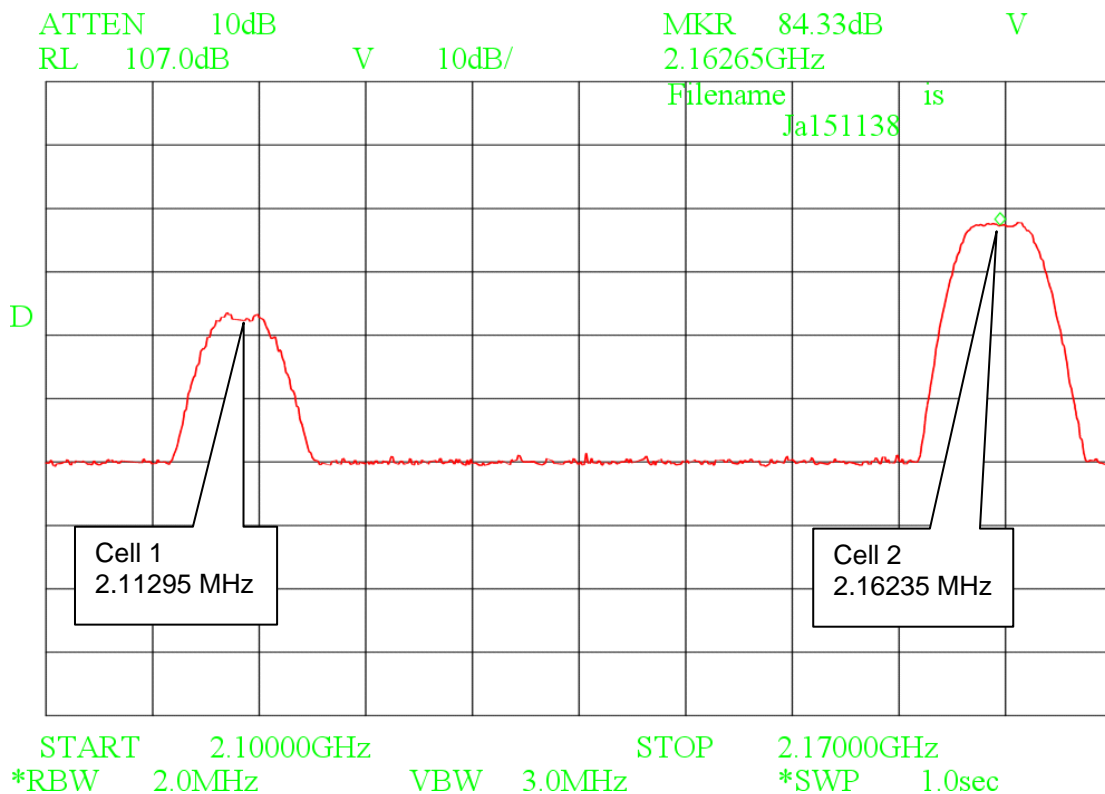


Figure 1

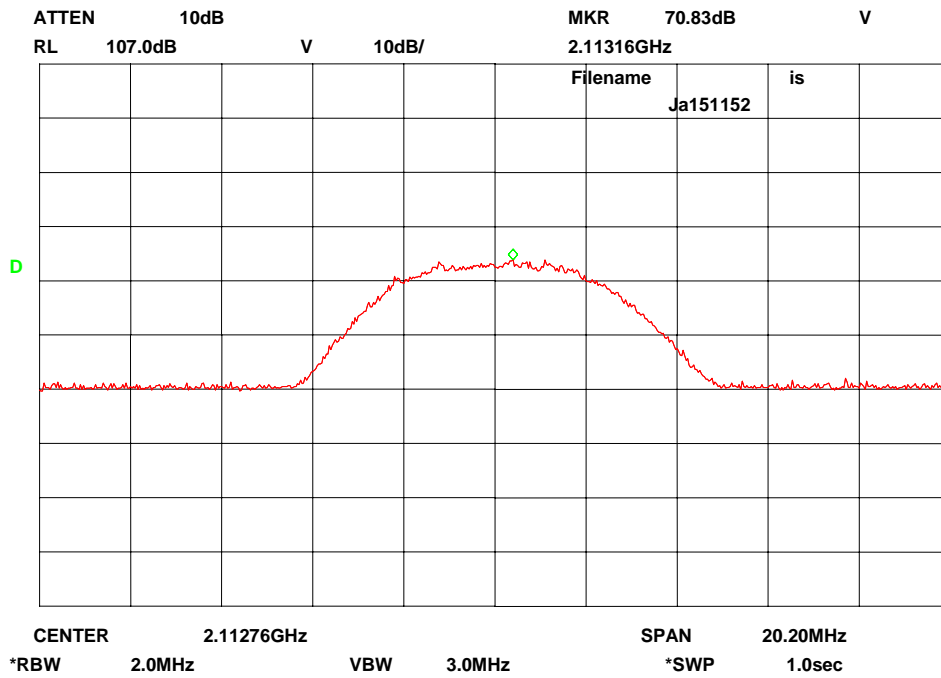
Figure 1 shows that two transmissions were active at this site. At each measurement location the individual cell's field strengths were measured. For each measurement the exposure quotient was then calculated and summed to give the total 3G exposure quotient. This in turn was added to the 2G exposure quotient before calculating the Total Exposure Quotient for each survey site.

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

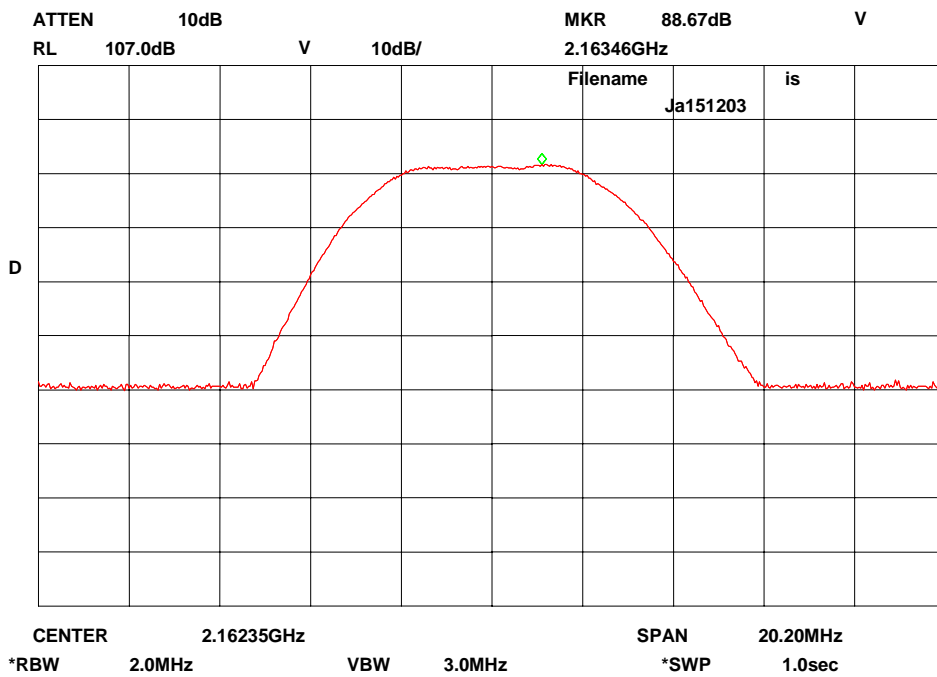
Equipment Used			
Make	Type	Model	Serial No.
HP	Spectrum analyzer	8561A	2841A00171
EMCO	DRG horn antenna	3115	2158
Reynolds	12m cable	219-0088	0201-026

Location	Cell	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	Exposure Quotient	Exposure Quotient	3G total	2G total	TOTAL Exp. Quot.	Related to ICNIRP limit
Northwest corner	1	2.11316	103.3	146,217.7	0.146218	0.0000567101	5.671E-05	10	0.000005671010	5.67E-06				
SP 7845 6222	2	2.16346	121.17	1,144,194.9	1.144195	0.0034726318	0.0034726	10	0.000347263180	3.50E-04	3.53E-04	2.26E-04	5.79E-04	1/1727
Southwest corner	1	2.11365	99.5	94,406.1	0.094406	0.0000236406	2.364E-05	10	0.000002364060	2.36E-06				
SP 7846 6214	2	2.16138	110.5	334,965.4	0.334965	0.0002976168	0.0002976	10	0.000029761680	2.98E-05	3.21E-05	6.73E-05	9.94E-05	1/10060
Existing tennis courts	1	2.1132	105.67	192,087.9	0.192088	0.0000978721	9.787E-05	10	0.000009787210	9.79E-06				
SP 7855 6213	2	2.16165	107	223,872.1	0.223872	0.0001329408	0.0001329	10	0.000013294080	1.33E-05	2.31E-05	1.05E-04	1.28E-04	1/7813
Southeast corner	1	2.11379	110.33	328,473.2	0.328473	0.0002861923	0.0002862	10	0.000028619230	2.86E-05				
SP 7860 6218	2	2.16118	116.17	643,428.1	0.643428	0.0010981422	0.0010981	10	0.000109814220	1.10E-04	1.38E-04	1.16E-04	2.54E-04	1/3937
Northeast corner	1	2.11415	103.5	149,623.6	0.149624	0.0000593829	5.938E-05	10	0.000005938290	5.94E-06				
SP 7860 6225	2	2.1613	114	501,187.2	0.501187	0.0006662823	0.0006663	10	0.000066628230	6.66E-05	7.29E-05	2.95E-04	3.68E-04	1/2717
Centre of site	1	2.11292	109.17	287,408.8	0.287409	0.0002191086	0.0002191	10	0.000021910860	2.19E-05				
SP 7856 6222	2	2.16112	122.5	1,333,521.4	1.333521	0.0047169185	0.0047169	10	0.000471691850	4.70E-04	4.72E-04	6.70E-04	1.14E-03	1/877

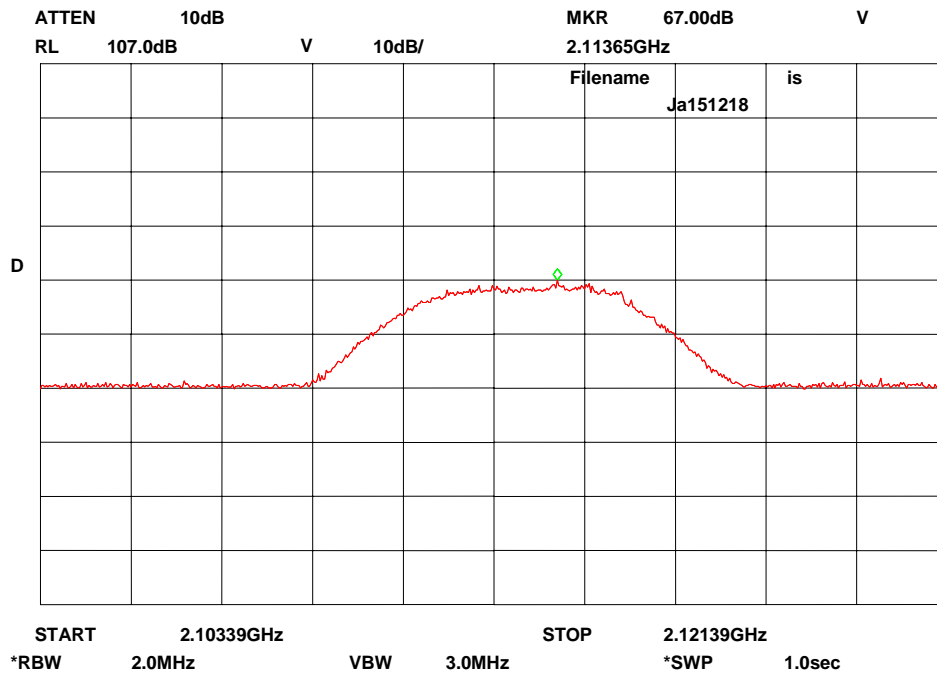
Northwest Corner Cell 1



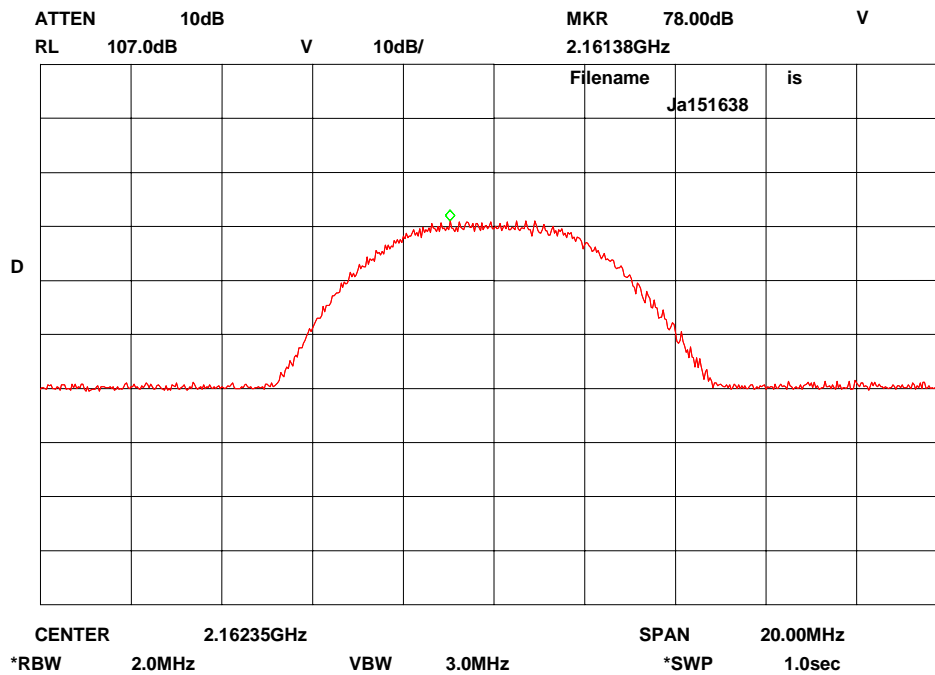
Northwest Corner Cell 2



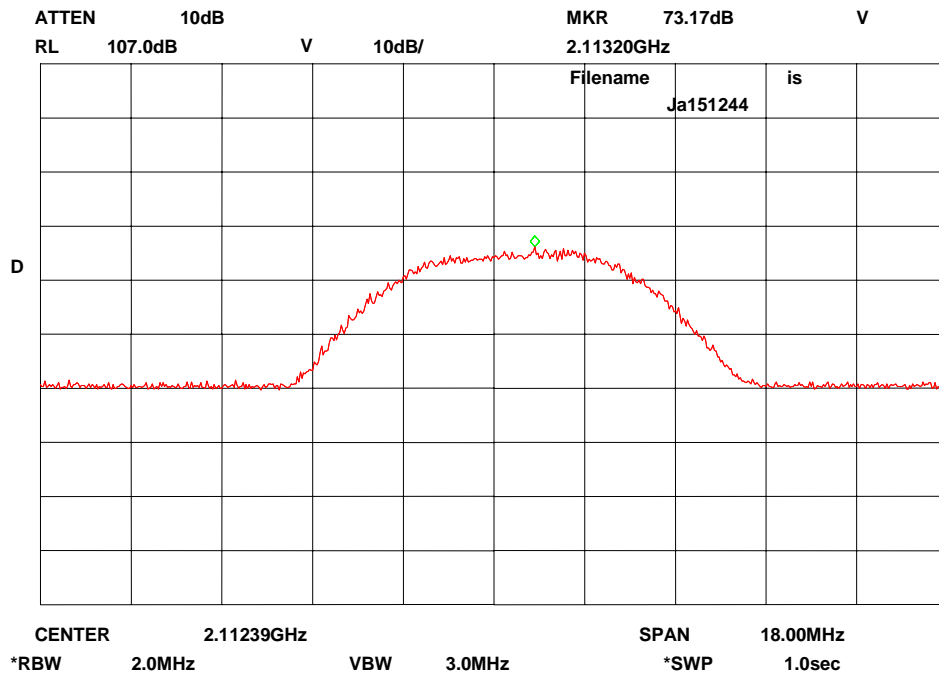
Southwest Corner Cell 1



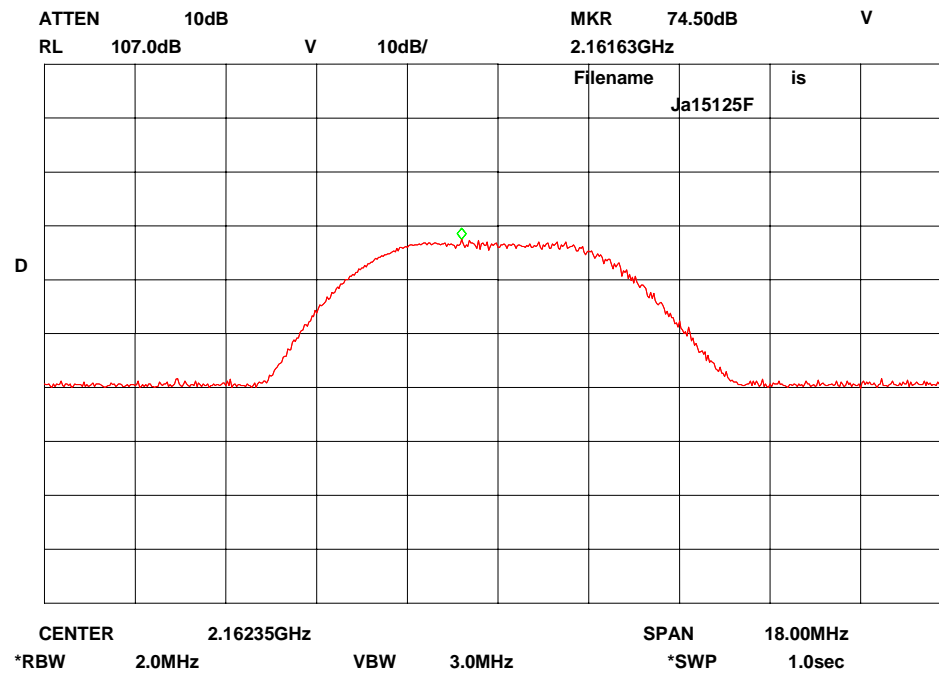
Southwest Corner Cell 2



Tennis Courts Cell 1



Tennis Courts Cell 2



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Annex

2G Mobile Phone Base-Station Audit

Mobile Phone Base-Station Audit

Audit site: Site of proposed new primary school
Cherry Orchard Middle School
Birchfield Road East
Northampton
NN3 2TA

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, Oftel 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 Cherry Orchard Middle School on 15 January 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
Centre of proposed new building	6.70E-04	1/1493
North East corner of site	2.95E-04	1/3387
North West corner of site	2.26E-04	1/4417
South East corner of site	1.16E-04	1/8639
Site of proposed playground - existing tennis courts	1.05E-04	1/9514
South West corner of site behind BP garage	6.73E-05	1/14860

Issued on behalf of Ofcom.

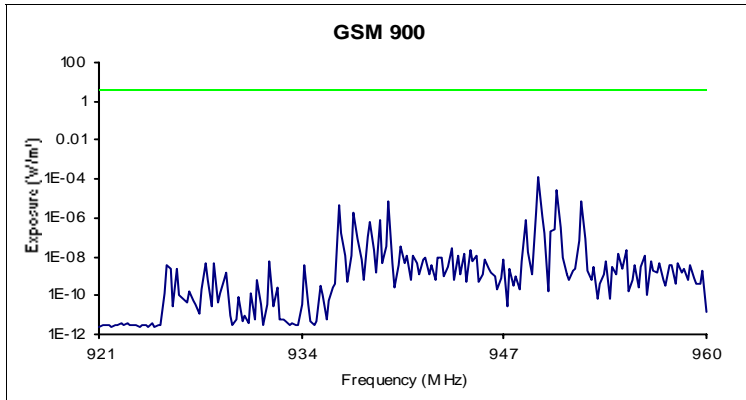
Issued by:

Received by:

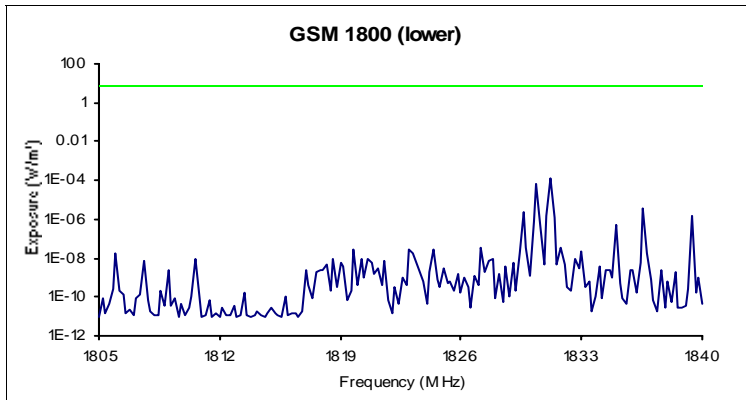
John Taylor
Radiocommunications Specialist

Site: Site of proposed new primary school (2nd survey)
Location: North West corner of site
NGR: SP 7845 6222 **Taken from GPS**
Start Time: 15 January 2004 11:21:43
Officer: John Taylor

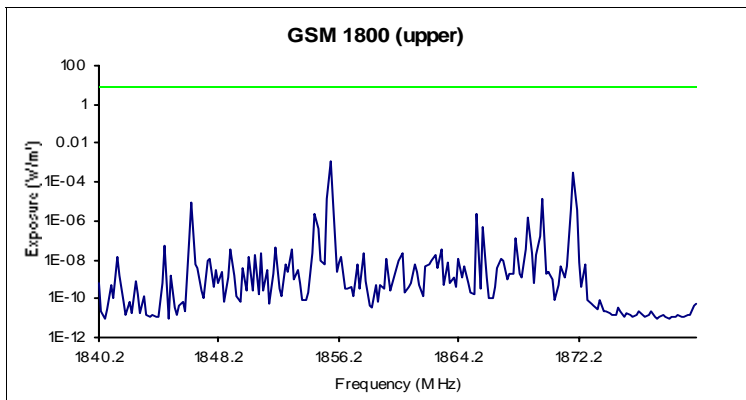
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
949.200	1.39E-04	4.75	2.93E-05
950.400	2.98E-05	4.75	6.27E-06
952.000	7.69E-06	4.76	1.62E-06
939.600	6.98E-06	4.70	1.48E-06
936.400	4.79E-06	4.68	1.02E-06
937.400	2.05E-06	4.69	4.37E-07
949.000	1.75E-06	4.75	3.69E-07
949.400	1.24E-06	4.75	2.61E-07
939.000	8.38E-07	4.70	1.78E-07
948.400	8.17E-07	4.74	1.72E-07
Band Exposure Quotient:			4.17E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	1.28E-04	9.16	1.40E-05
1,830.400	6.41E-05	9.15	7.00E-06
1,836.600	3.32E-06	9.18	3.62E-07
1,829.600	2.55E-06	9.15	2.79E-07
1,839.400	1.56E-06	9.20	1.70E-07
1,831.000	1.54E-06	9.15	1.68E-07
1,831.400	1.17E-06	9.16	1.28E-07
1,830.200	8.64E-07	9.15	9.44E-08
1,830.600	5.46E-07	9.15	5.96E-08
1,835.000	5.01E-07	9.18	5.47E-08
Band Exposure Quotient:			2.24E-05



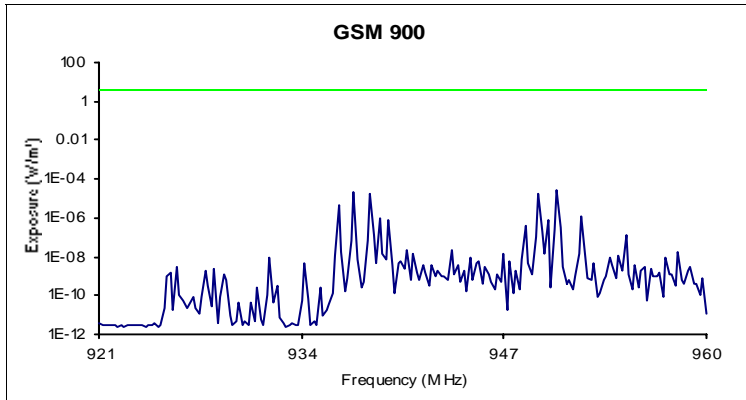
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,855.600	1.14E-03	9.28	1.23E-04
1,871.800	3.08E-04	9.36	3.29E-05
1,869.800	1.47E-05	9.35	1.57E-06
1,855.800	1.43E-05	9.28	1.54E-06
1,855.400	1.28E-05	9.28	1.37E-06
1,846.400	8.11E-06	9.23	8.78E-07
1,872.000	3.78E-06	9.36	4.04E-07
1,871.600	3.37E-06	9.36	3.60E-07
1,854.600	2.26E-06	9.27	2.44E-07
1,865.400	2.20E-06	9.33	2.36E-07
Band Exposure Quotient:			1.62E-04

Total number of measurements: 572

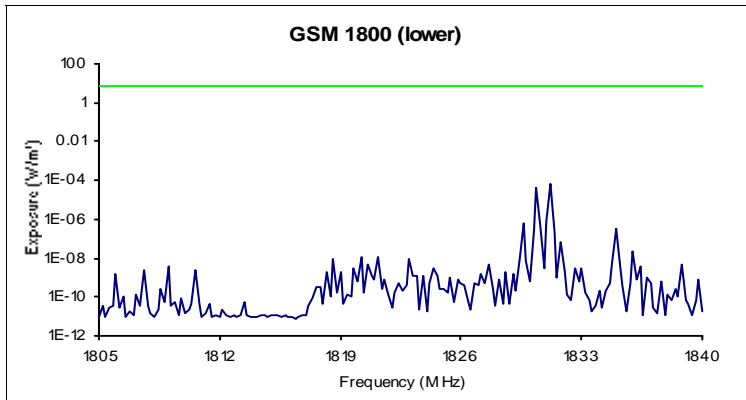
Total Band Exposure Quotient: **2.26E-04**

Site: Site of proposed new primary school (2nd surve
Location: South West corner of site behind BP garage
NGR: SP 7846 6214 **Taken from GPS**
Start Time: 15 January 2004 11:38:28
Officer: John Taylor

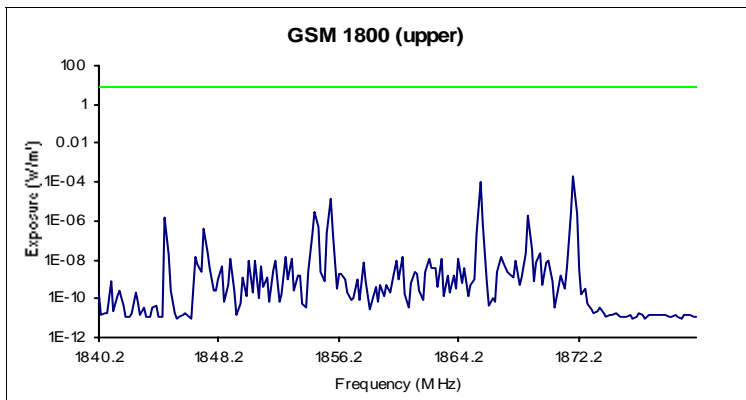
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
950.400	2.78E-05	4.75	5.85E-06
937.400	2.35E-05	4.69	5.02E-06
949.200	1.75E-05	4.75	3.69E-06
938.400	1.67E-05	4.69	3.56E-06
936.400	5.02E-06	4.68	1.07E-06
952.000	1.11E-06	4.76	2.34E-07
939.000	8.97E-07	4.70	1.91E-07
949.800	7.83E-07	4.75	1.65E-07
939.600	7.65E-07	4.70	1.63E-07
948.400	3.91E-07	4.74	8.25E-08
Band Exposure Quotient:			2.04E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	6.13E-05	9.16	6.69E-06
1,830.400	4.14E-05	9.15	4.52E-06
1,831.000	7.71E-07	9.15	8.43E-08
1,829.600	6.40E-07	9.15	7.00E-08
1,830.600	5.33E-07	9.15	5.83E-08
1,835.000	3.09E-07	9.18	3.37E-08
1,830.200	2.80E-07	9.15	3.06E-08
1,831.400	2.28E-07	9.16	2.49E-08
1,831.800	6.28E-08	9.16	6.85E-09
1,836.000	2.05E-08	9.18	2.23E-09
Band Exposure Quotient:			1.15E-05



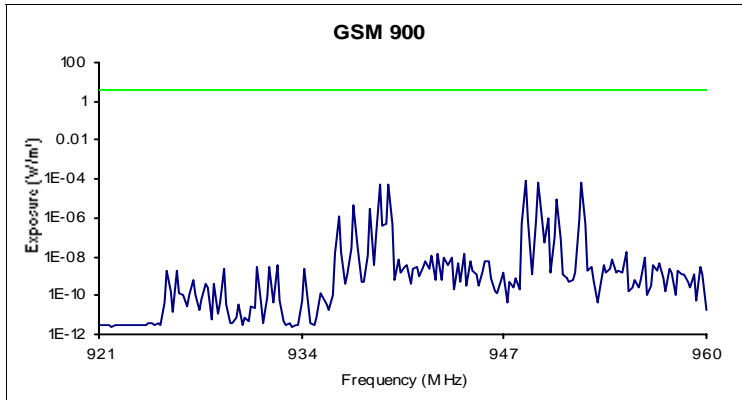
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,871.800	1.99E-04	9.36	2.12E-05
1,865.600	1.03E-04	9.33	1.11E-05
1,855.600	1.53E-05	9.28	1.65E-06
1,854.600	2.99E-06	9.27	3.22E-07
1,871.600	2.23E-06	9.36	2.38E-07
1,872.000	2.18E-06	9.36	2.33E-07
1,868.800	1.84E-06	9.34	1.97E-07
1,844.600	1.37E-06	9.22	1.49E-07
1,865.800	7.13E-07	9.33	7.65E-08
1,854.800	4.73E-07	9.27	5.10E-08
Band Exposure Quotient:			3.54E-05

Total number of measurements: 572

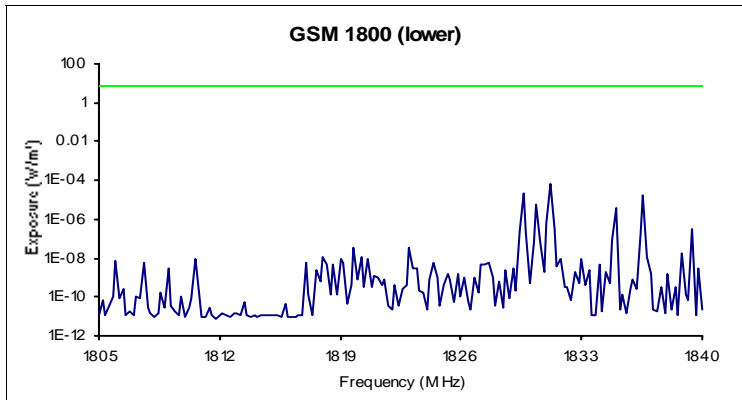
Total Band Exposure Quotient: **6.73E-05**

Site: Site of proposed new primary school (2nd curve)
Location: Site of proposed playground - existing tennis courts
NGR: SP 7855 6213 **Taken from GPS**
Start Time: 15 January 2004 11:56:13
Officer: John Taylor

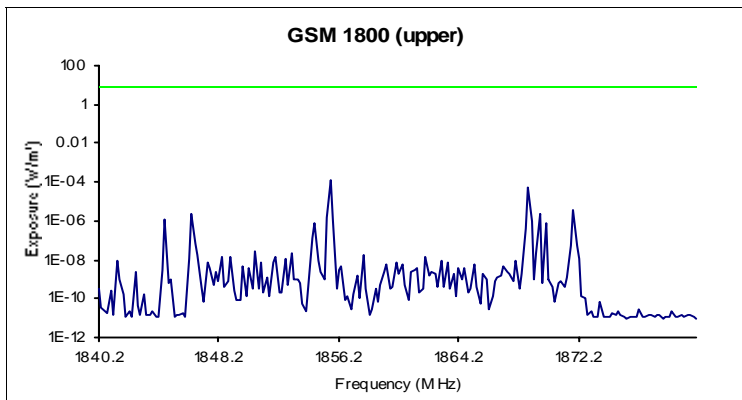
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.400	9.17E-05	4.74	1.93E-05
949.200	6.21E-05	4.75	1.31E-05
952.000	6.11E-05	4.76	1.28E-05
939.000	5.16E-05	4.70	1.10E-05
939.600	5.05E-05	4.70	1.08E-05
950.400	8.60E-06	4.75	1.81E-06
937.400	4.18E-06	4.69	8.92E-07
938.400	2.77E-06	4.69	5.90E-07
936.400	1.32E-06	4.68	2.82E-07
949.800	8.99E-07	4.75	1.89E-07
Band Exposure Quotient:			7.21E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	5.99E-05	9.16	6.54E-06
1,829.600	2.27E-05	9.15	2.48E-06
1,836.600	1.67E-05	9.18	1.81E-06
1,830.400	5.21E-06	9.15	5.69E-07
1,835.000	3.55E-06	9.18	3.87E-07
1,831.000	6.87E-07	9.15	7.51E-08
1,839.400	3.19E-07	9.20	3.47E-08
1,831.400	3.07E-07	9.16	3.36E-08
1,829.400	2.32E-07	9.15	2.54E-08
1,836.400	2.25E-07	9.18	2.45E-08
Band Exposure Quotient:			1.21E-05



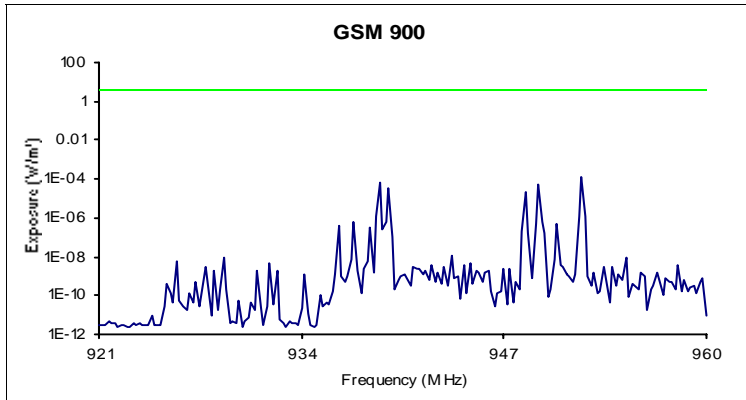
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,855.600	1.22E-04	9.28	1.31E-05
1,868.800	5.70E-05	9.34	6.10E-06
1,871.800	3.70E-06	9.36	3.95E-07
1,846.400	2.62E-06	9.23	2.84E-07
1,869.600	2.43E-06	9.35	2.60E-07
1,855.400	1.50E-06	9.28	1.61E-07
1,844.600	1.14E-06	9.22	1.24E-07
1,855.800	1.14E-06	9.28	1.23E-07
1,869.000	9.46E-07	9.35	1.01E-07
1,854.600	7.85E-07	9.27	8.47E-08
Band Exposure Quotient:			2.10E-05

Total number of measurements: 572

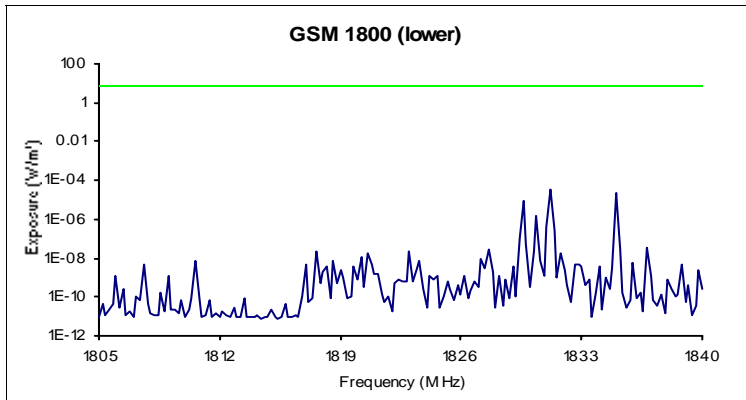
Total Band Exposure Quotient: **1.05E-04**

Site: Site of proposed new primary school (2nd survey)
Location: South East corner of site
NGR: SP 7860 6218 **Taken from GPS**
Start Time: 15 January 2004 12:11:16
Officer: John Taylor

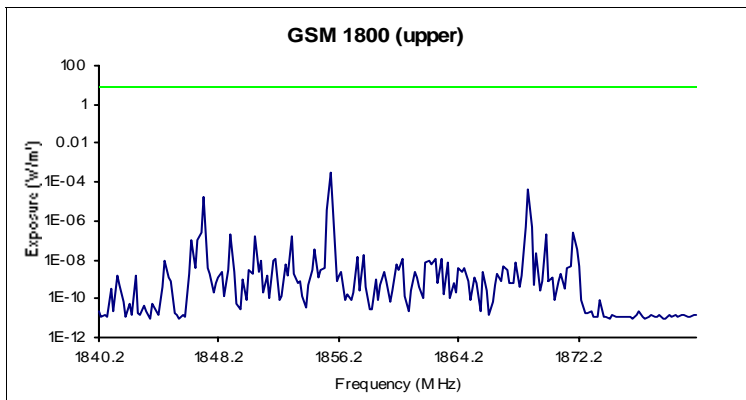
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
952.000	1.19E-04	4.76	2.50E-05
939.000	5.93E-05	4.70	1.26E-05
949.200	5.29E-05	4.75	1.11E-05
939.600	3.58E-05	4.70	7.62E-06
948.400	2.25E-05	4.74	4.75E-06
938.800	1.30E-06	4.69	2.76E-07
951.800	1.31E-06	4.76	2.74E-07
952.200	1.28E-06	4.76	2.68E-07
939.400	6.81E-07	4.70	1.45E-07
949.400	6.07E-07	4.75	1.28E-07
Band Exposure Quotient:			6.30E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	3.69E-05	9.16	4.03E-06
1,835.000	2.19E-05	9.18	2.39E-06
1,829.600	9.47E-06	9.15	1.03E-06
1,830.400	1.57E-06	9.15	1.72E-07
1,831.000	4.34E-07	9.15	4.74E-08
1,831.400	2.50E-07	9.16	2.73E-08
1,829.400	1.16E-07	9.15	1.27E-08
1,829.800	5.98E-08	9.15	6.53E-09
1,836.800	3.10E-08	9.18	3.38E-09
1,835.200	2.95E-08	9.18	3.22E-09
Band Exposure Quotient:			7.76E-06



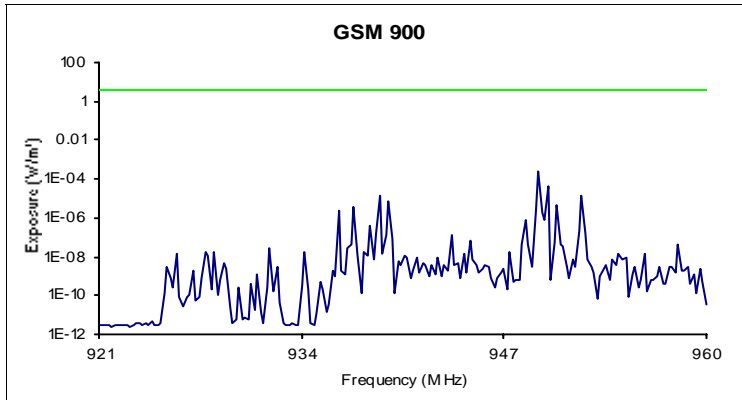
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,855.600	3.43E-04	9.28	3.70E-05
1,868.800	4.63E-05	9.34	4.96E-06
1,847.200	1.74E-05	9.24	1.88E-06
1,855.800	4.13E-06	9.28	4.45E-07
1,855.400	3.85E-06	9.28	4.15E-07
1,869.000	5.44E-07	9.35	5.82E-08
1,868.600	5.08E-07	9.34	5.43E-08
1,871.800	2.80E-07	9.36	3.00E-08
1,847.000	2.34E-07	9.23	2.53E-08
1,870.000	2.12E-07	9.35	2.27E-08
Band Exposure Quotient:			4.50E-05

Total number of measurements: 572

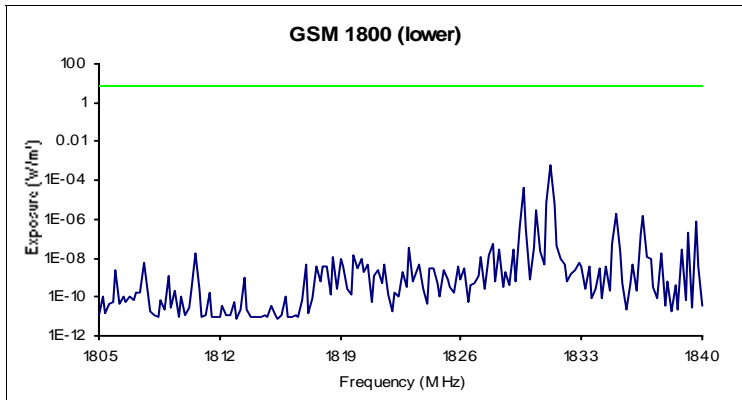
Total Band Exposure Quotient: **1.16E-04**

Site: Site of proposed new primary school (2nd survey)
Location: North East corner of site
NGR: SP 7860 6225 **Taken from GPS**
Start Time: 15 January 2004 12:25:41
Officer: John Taylor

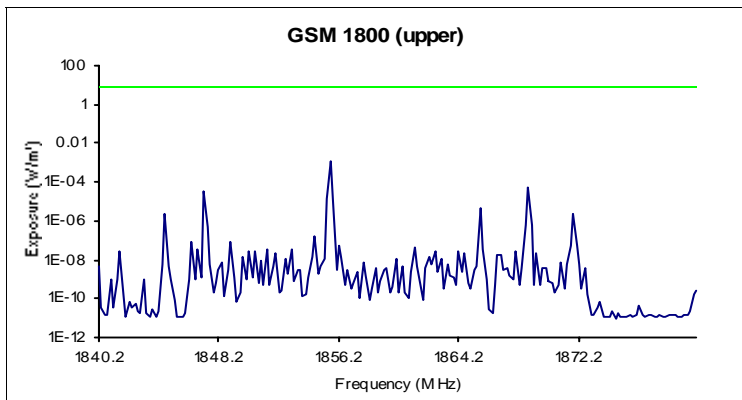
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
949.200	2.47E-04	4.75	5.21E-05
949.800	3.92E-05	4.75	8.26E-06
939.000	1.52E-05	4.70	3.25E-06
952.000	1.53E-05	4.76	3.22E-06
939.600	7.83E-06	4.70	1.67E-06
950.400	4.84E-06	4.75	1.02E-06
937.400	4.09E-06	4.69	8.72E-07
949.000	2.97E-06	4.75	6.26E-07
936.400	2.63E-06	4.68	5.62E-07
949.400	2.11E-06	4.75	4.44E-07
Band Exposure Quotient:			7.28E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	6.42E-04	9.16	7.01E-05
1,829.600	4.23E-05	9.15	4.62E-06
1,831.000	6.72E-06	9.15	7.34E-07
1,831.400	5.86E-06	9.16	6.39E-07
1,830.400	3.14E-06	9.15	3.43E-07
1,835.000	1.70E-06	9.18	1.85E-07
1,836.600	1.45E-06	9.18	1.58E-07
1,839.600	7.65E-07	9.20	8.32E-08
1,829.400	4.13E-07	9.15	4.52E-08
1,829.800	3.52E-07	9.15	3.85E-08
Band Exposure Quotient:			7.71E-05



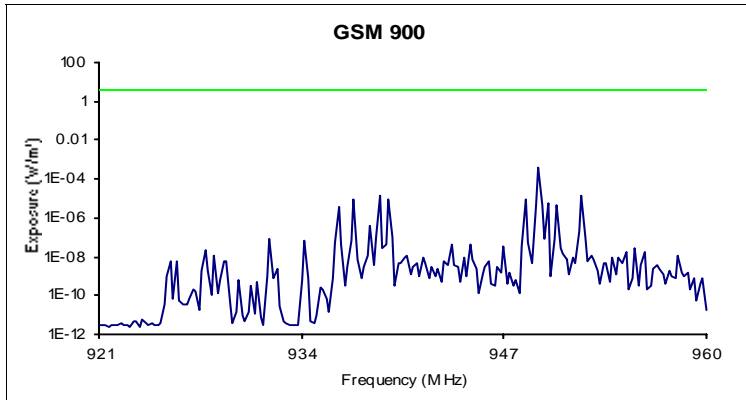
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,855.600	1.22E-03	9.28	1.31E-04
1,868.800	5.44E-05	9.34	5.82E-06
1,847.200	3.54E-05	9.24	3.84E-06
1,855.800	1.50E-05	9.28	1.62E-06
1,855.400	1.30E-05	9.28	1.41E-06
1,865.600	5.05E-06	9.33	5.41E-07
1,871.800	2.44E-06	9.36	2.61E-07
1,844.600	2.33E-06	9.22	2.53E-07
1,869.000	6.39E-07	9.35	6.84E-08
1,868.600	6.24E-07	9.34	6.68E-08
Band Exposure Quotient:			1.45E-04

Total number of measurements: 572

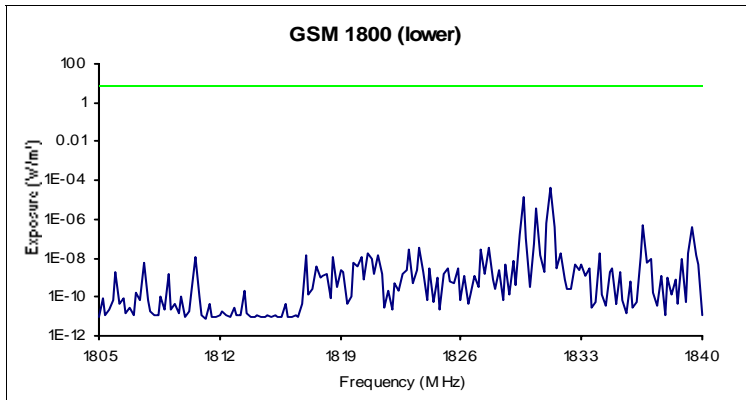
Total Band Exposure Quotient: **2.95E-04**

Site: Site of proposed new primary school (2nd curve)
Location: Centre of proposed new building
NGR: SP 7856 6222 **Taken from GPS**
Start Time: 15 January 2004 12:40:24
Officer: John Taylor

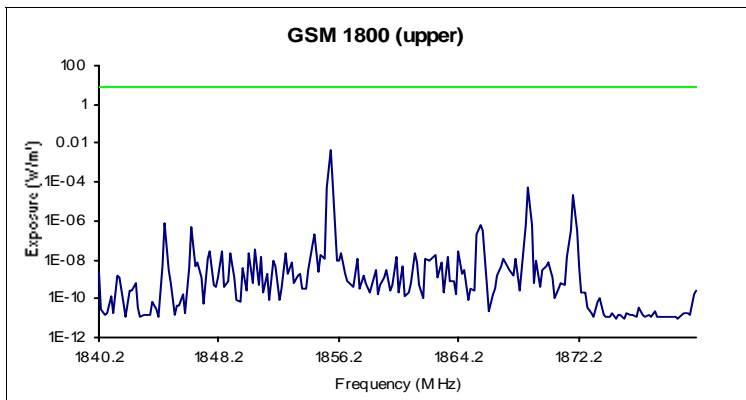
Receiver:
 Manufacturer: ROHDE&SCHWARZ
 Model: EB200
 Serial Number: 837.752/003
Antenna:
 Manufacturer: Rohde & Schwarz
 Model: HE200
 Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
949.200	4.20E-04	4.75	8.85E-05
939.000	1.52E-05	4.70	3.25E-06
952.000	1.50E-05	4.76	3.15E-06
939.600	8.78E-06	4.70	1.87E-06
948.400	8.36E-06	4.74	1.76E-06
937.400	8.15E-06	4.69	1.74E-06
949.800	5.42E-06	4.75	1.14E-06
950.400	5.06E-06	4.75	1.07E-06
949.000	4.93E-06	4.75	1.04E-06
949.400	4.82E-06	4.75	1.02E-06
Band Exposure Quotient:			1.06E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,831.200	4.54E-05	9.16	4.96E-06
1,829.600	1.54E-05	9.15	1.68E-06
1,830.400	3.44E-06	9.15	3.76E-07
1,831.000	5.72E-07	9.15	6.25E-08
1,836.600	5.51E-07	9.18	6.00E-08
1,831.400	3.78E-07	9.16	4.13E-08
1,839.400	3.66E-07	9.20	3.98E-08
1,829.400	1.76E-07	9.15	1.93E-08
1,829.800	1.14E-07	9.15	1.24E-08
1,830.200	5.09E-08	9.15	5.56E-09
Band Exposure Quotient:			7.31E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,855.600	4.96E-03	9.28	5.35E-04
1,855.800	6.40E-05	9.28	6.89E-06
1,855.400	5.83E-05	9.28	6.28E-06
1,868.800	5.20E-05	9.34	5.56E-06
1,871.800	2.28E-05	9.36	2.44E-06
1,844.600	7.04E-07	9.22	7.63E-08
1,865.600	6.07E-07	9.33	6.51E-08
1,868.600	5.83E-07	9.34	6.24E-08
1,869.000	5.70E-07	9.35	6.10E-08
1,846.400	5.00E-07	9.23	5.41E-08
Band Exposure Quotient:			5.57E-04

Total number of measurements: 572

Total Band Exposure Quotient: **6.70E-04**

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/m^2)
- 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/m^2)
- 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