

## **Mobile Phone Base-Station Audit**

Audit site: Dunblane High School  
Highfields  
Dunblane  
Stirling-shire  
FK15 9DR

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](mailto: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](http://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 Dunblane High School on 13 October 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
Between the two Art classrooms	8.95E-05	1/11170
Outside Hut 37	6.01E-05	1/16629
Home Economics classroom	2.52E-05	1/39718
Middle of car park opposite main entrance	1.65E-05	1/60730
Outside entrance to football pitch	3.17E-06	1/315683
Canteen	3.11E-06	1/321183
Computing classroom (room 22)	2.96E-06	1/338245
French Classroom (room 27)	1.91E-06	1/522598
Physics 3 Classroom	1.85E-06	1/539849
Staffroom	5.06E-07	1/1974417

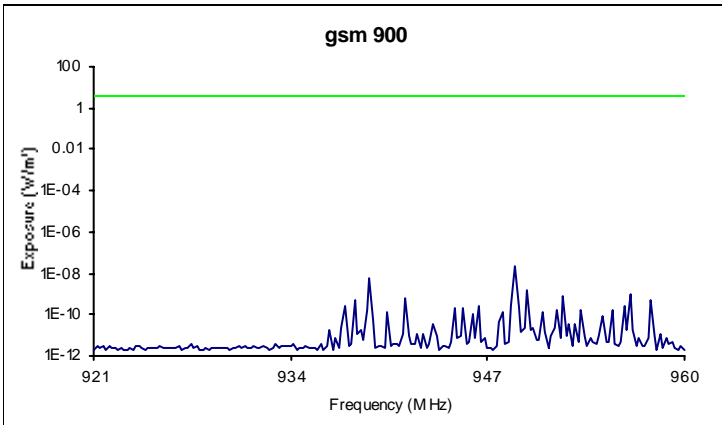
Issued on behalf of Ofcom.

Issued by:

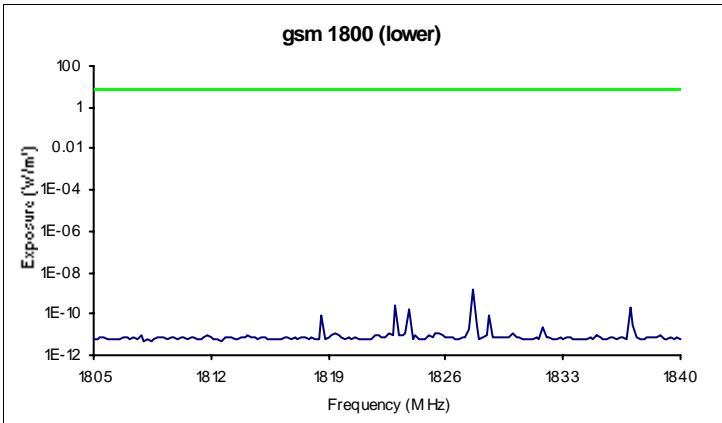
Received by:

Jeannie Rees  
Technical Investigation Officer

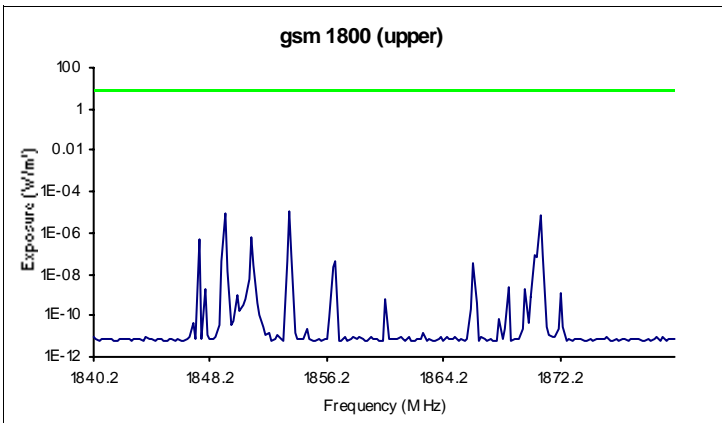
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Canteen	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7718 0080 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 10:05:24	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.800	2.25E-08	4.74	4.75E-09
939.200	6.36E-09	4.70	1.35E-09
949.600	1.42E-09	4.75	3.00E-10
956.400	1.07E-09	4.78	2.24E-10
952.000	7.18E-10	4.76	1.51E-10
941.600	5.70E-10	4.71	1.21E-10
957.800	5.52E-10	4.79	1.15E-10
938.200	5.04E-10	4.69	1.07E-10
937.600	2.76E-10	4.69	5.90E-11
956.000	2.57E-10	4.78	5.38E-11
<b>Band Exposure Quotient:</b>			<b>7.94E-09</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.53E-09	9.14	1.67E-10
1,823.000	2.52E-10	9.12	2.76E-11
1,837.000	2.05E-10	9.19	2.23E-11
1,823.800	1.71E-10	9.12	1.87E-11
1,828.600	8.82E-11	9.14	9.65E-12
1,818.600	8.67E-11	9.09	9.53E-12
1,827.800	3.05E-11	9.14	3.34E-12
1,837.200	3.03E-11	9.19	3.30E-12
1,831.800	2.13E-11	9.16	2.32E-12
1,827.400	1.72E-11	9.14	1.88E-12
<b>Band Exposure Quotient:</b>			<b>3.95E-10</b>

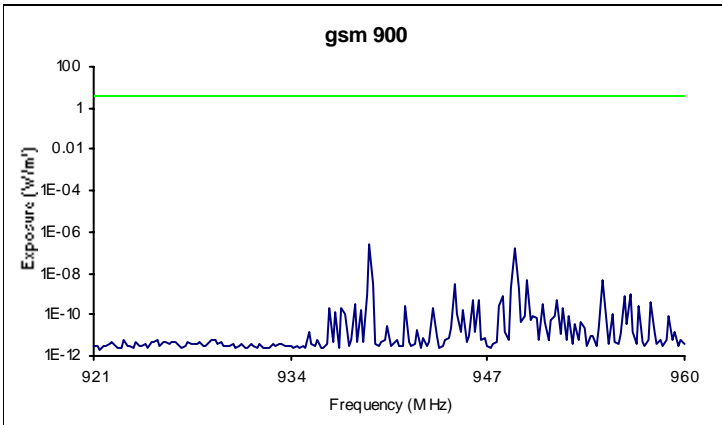


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,853.600	1.11E-05	9.27	1.19E-06
1,849.200	8.33E-06	9.25	9.01E-07
1,870.800	7.71E-06	9.35	8.24E-07
1,851.000	6.06E-07	9.26	6.54E-08
1,847.400	5.36E-07	9.24	5.81E-08
1,871.000	8.65E-08	9.36	9.25E-09
1,853.800	8.21E-08	9.27	8.86E-09
1,870.400	7.88E-08	9.35	8.43E-09
1,870.600	6.71E-08	9.35	7.18E-09
1,849.000	4.79E-08	9.24	5.19E-09
<b>Band Exposure Quotient:</b>			<b>3.11E-06</b>

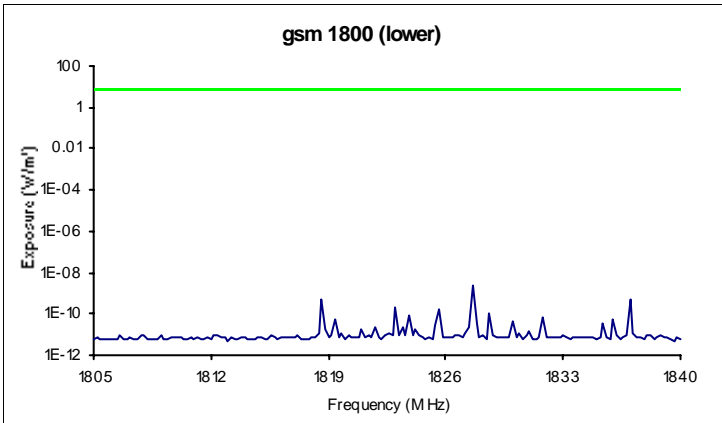
Total number of measurements: 572

**Total Band Exposure Quotient:** **3.11E-06**

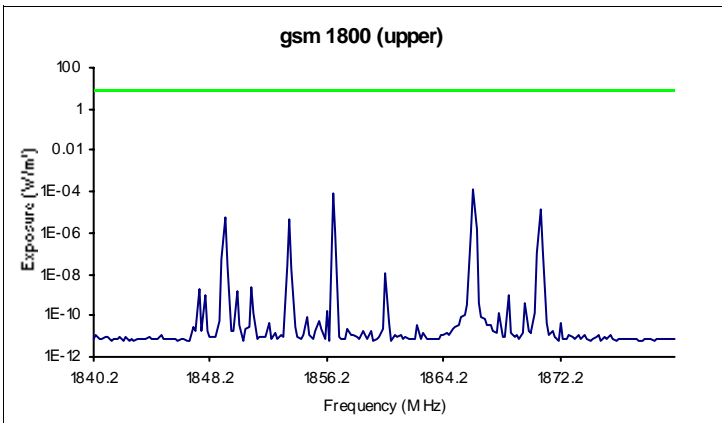
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Home Economics classroom	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7727 0072 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 10:26:08	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
939.200	2.71E-07	4.70	5.77E-08
948.800	1.67E-07	4.74	3.52E-08
954.600	4.88E-09	4.77	1.02E-09
949.600	4.20E-09	4.75	8.85E-10
944.800	3.08E-09	4.72	6.52E-10
939.400	3.04E-09	4.70	6.48E-10
949.000	1.96E-09	4.75	4.14E-10
948.600	1.75E-09	4.74	3.69E-10
939.000	1.01E-09	4.70	2.14E-10
956.400	9.56E-10	4.78	2.00E-10
<b>Band Exposure Quotient:</b>			<b>9.91E-08</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	2.26E-09	9.14	2.48E-10
1,818.600	5.47E-10	9.09	6.02E-11
1,837.000	4.70E-10	9.19	5.11E-11
1,823.000	1.96E-10	9.12	2.15E-11
1,825.600	1.63E-10	9.13	1.79E-11
1,828.600	1.01E-10	9.14	1.11E-11
1,823.800	8.95E-11	9.12	9.82E-12
1,831.800	7.38E-11	9.16	8.05E-12
1,836.000	5.90E-11	9.18	6.43E-12
1,819.400	5.60E-11	9.10	6.16E-12
<b>Band Exposure Quotient:</b>			<b>5.96E-10</b>

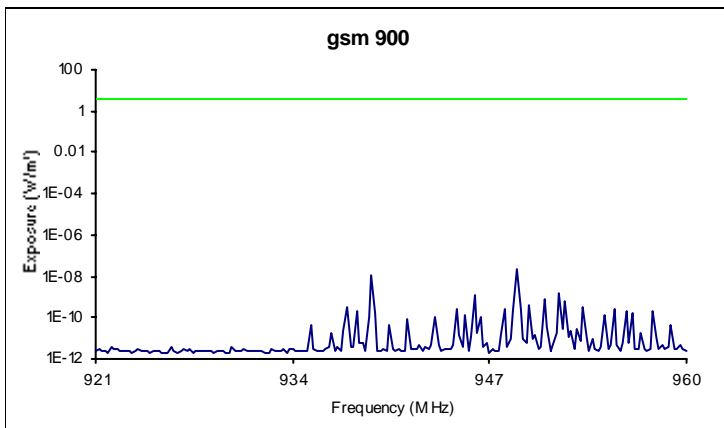


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,866.200	1.21E-04	9.33	1.30E-05
1,856.600	8.44E-05	9.28	9.09E-06
1,870.800	1.37E-05	9.35	1.47E-06
1,849.200	6.04E-06	9.25	6.53E-07
1,853.600	4.51E-06	9.27	4.87E-07
1,866.400	1.39E-06	9.33	1.49E-07
1,856.800	9.05E-07	9.28	9.75E-08
1,866.000	8.78E-07	9.33	9.41E-08
1,871.000	1.54E-07	9.36	1.65E-08
1,870.600	1.04E-07	9.35	1.11E-08
<b>Band Exposure Quotient:</b>			<b>2.51E-05</b>

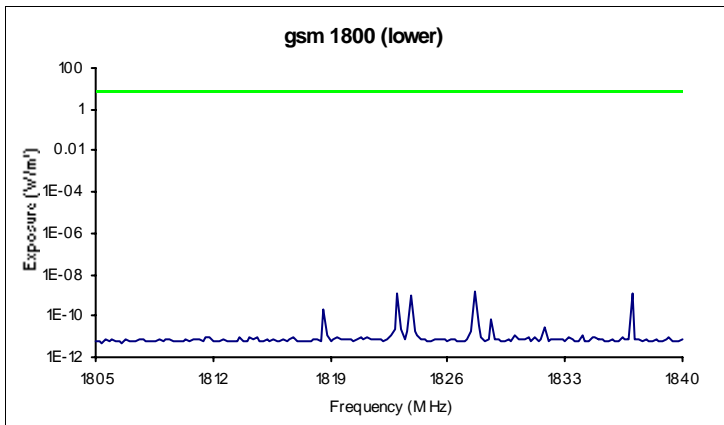
Total number of measurements: 572

**Total Band Exposure Quotient:** **2.52E-05**

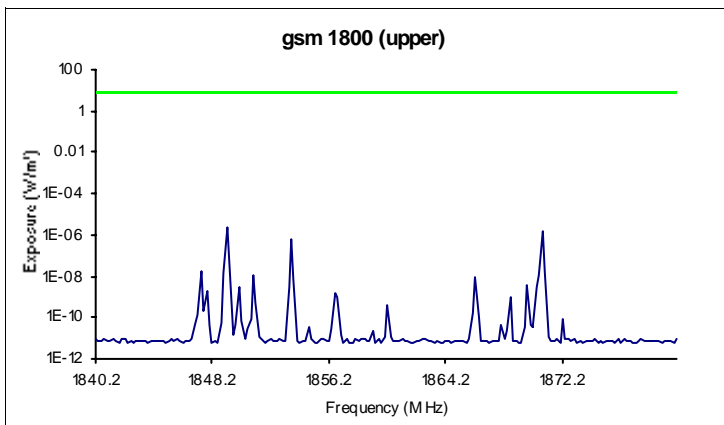
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Staffroom	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7721 0078 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 10:50:32	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.800	2.25E-08	4.74	4.75E-09
939.200	1.21E-08	4.70	2.58E-09
951.600	1.57E-09	4.76	3.30E-10
946.000	1.15E-09	4.73	2.43E-10
950.600	7.49E-10	4.75	1.58E-10
952.000	7.01E-10	4.76	1.47E-10
949.600	3.75E-10	4.75	7.89E-11
937.600	3.10E-10	4.69	6.62E-11
953.200	3.00E-10	4.77	6.30E-11
949.000	2.71E-10	4.75	5.71E-11
<b>Band Exposure Quotient:</b>			<b>9.20E-09</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.68E-09	9.14	1.84E-10
1,823.000	1.18E-09	9.12	1.29E-10
1,837.000	1.13E-09	9.19	1.23E-10
1,823.800	9.16E-10	9.12	1.00E-10
1,818.600	2.18E-10	9.09	2.39E-11
1,828.600	7.34E-11	9.14	8.02E-12
1,827.800	3.35E-11	9.14	3.66E-12
1,831.800	3.01E-11	9.16	3.28E-12
1,823.200	2.46E-11	9.12	2.70E-12
1,822.800	2.46E-11	9.11	2.70E-12
<b>Band Exposure Quotient:</b>			<b>7.13E-10</b>

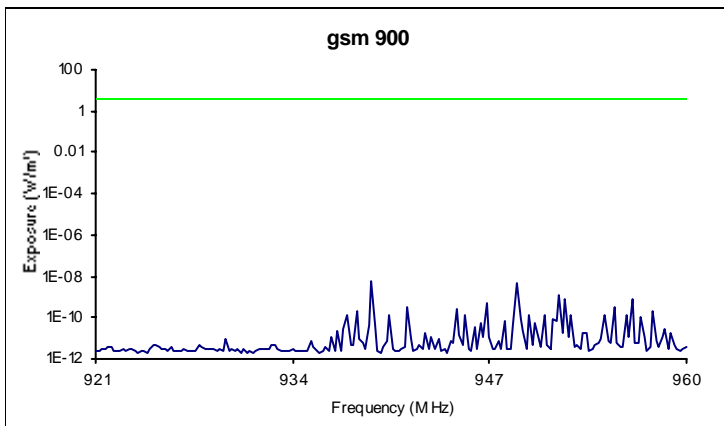


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,849.200	2.40E-06	9.25	2.60E-07
1,870.800	1.47E-06	9.35	1.57E-07
1,853.600	5.95E-07	9.27	6.42E-08
1,849.400	3.56E-08	9.25	3.85E-09
1,847.400	1.82E-08	9.24	1.97E-09
1,871.000	1.73E-08	9.36	1.85E-09
1,849.000	1.29E-08	9.24	1.40E-09
1,870.600	1.04E-08	9.35	1.11E-09
1,851.000	1.03E-08	9.26	1.11E-09
1,866.200	8.78E-09	9.33	9.41E-10
<b>Band Exposure Quotient:</b>			<b>4.97E-07</b>

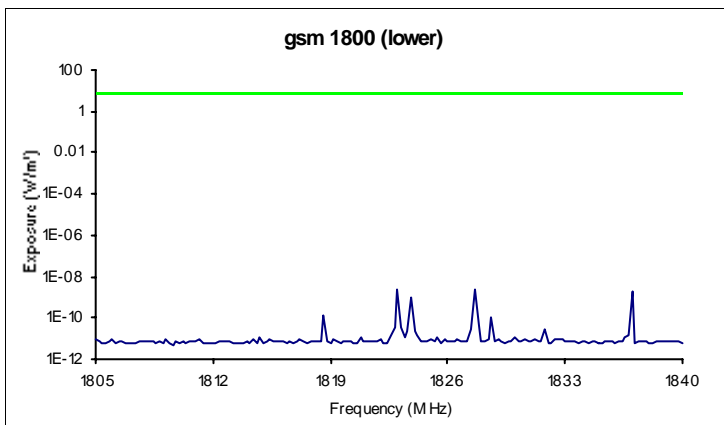
Total number of measurements: 572

**Total Band Exposure Quotient:** **5.06E-07**

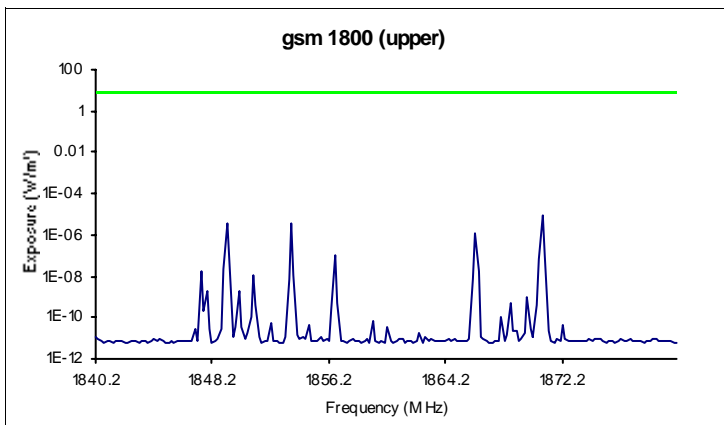
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Physics 3 Classroom	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7719 0076 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 11:11:19	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
939.200	6.07E-09	4.70	1.29E-09
948.800	4.20E-09	4.74	8.84E-10
951.600	1.22E-09	4.76	2.56E-10
952.000	8.43E-10	4.76	1.77E-10
956.400	7.42E-10	4.78	1.55E-10
946.800	5.26E-10	4.73	1.11E-10
941.600	3.35E-10	4.71	7.12E-11
955.200	3.31E-10	4.78	6.92E-11
944.800	2.62E-10	4.72	5.55E-11
957.800	2.10E-10	4.79	4.38E-11
<b>Band Exposure Quotient:</b>			<b>3.70E-09</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	2.42E-09	9.14	2.65E-10
1,823.000	2.25E-09	9.12	2.46E-10
1,837.000	1.79E-09	9.19	1.94E-10
1,823.800	9.59E-10	9.12	1.05E-10
1,818.600	1.37E-10	9.09	1.51E-11
1,828.600	1.01E-10	9.14	1.11E-11
1,827.800	4.73E-11	9.14	5.18E-12
1,823.200	3.56E-11	9.12	3.90E-12
1,822.800	3.17E-11	9.11	3.48E-12
1,827.400	2.78E-11	9.14	3.05E-12
<b>Band Exposure Quotient:</b>			<b>9.93E-10</b>

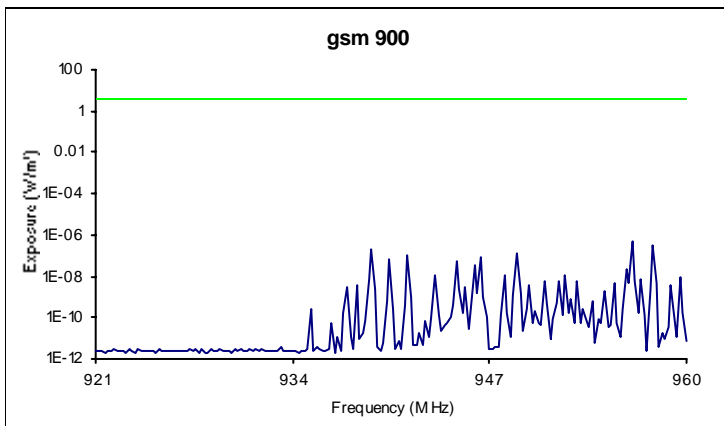


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.800	8.45E-06	9.35	9.04E-07
1,849.200	3.72E-06	9.25	4.03E-07
1,853.600	3.34E-06	9.27	3.61E-07
1,866.200	1.27E-06	9.33	1.36E-07
1,856.600	1.09E-07	9.28	1.17E-08
1,871.000	9.49E-08	9.36	1.01E-08
1,870.600	6.71E-08	9.35	7.18E-09
1,849.400	3.90E-08	9.25	4.22E-09
1,849.000	2.40E-08	9.24	2.60E-09
1,847.400	1.70E-08	9.24	1.84E-09
<b>Band Exposure Quotient:</b>			<b>1.85E-06</b>

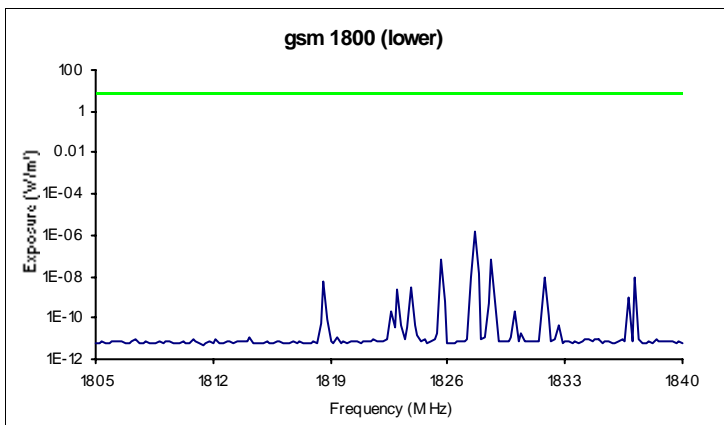
Total number of measurements: 572

**Total Band Exposure Quotient:** **1.85E-06**

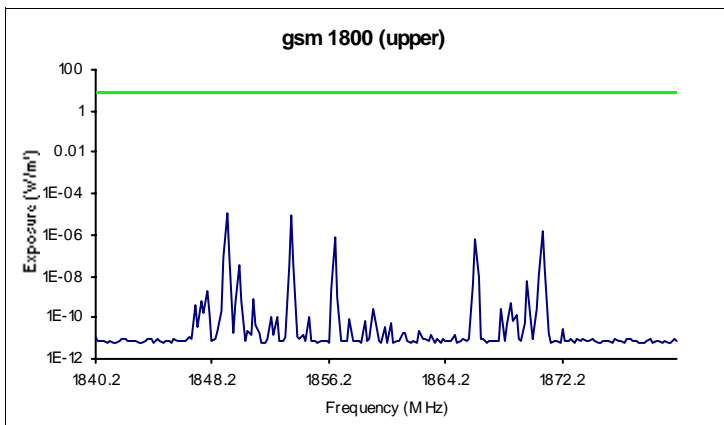
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Computing classroom (room 22)	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7720 0079 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 11:32:51	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
956.400	5.02E-07	4.78	1.05E-07
957.800	2.90E-07	4.79	6.05E-08
939.200	2.06E-07	4.70	4.38E-08
948.800	1.27E-07	4.74	2.67E-08
941.600	9.45E-08	4.71	2.01E-08
946.400	8.72E-08	4.73	1.84E-08
940.400	7.15E-08	4.70	1.52E-08
944.800	5.48E-08	4.72	1.16E-08
946.000	3.39E-08	4.73	7.16E-09
956.000	2.19E-08	4.78	4.58E-09
<b>Band Exposure Quotient:</b>			<b>3.42E-07</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.46E-06	9.14	1.60E-07
1,825.600	6.81E-08	9.13	7.46E-09
1,828.600	6.69E-08	9.14	7.32E-09
1,827.800	1.57E-08	9.14	1.71E-09
1,837.200	9.82E-09	9.19	1.07E-09
1,827.400	9.65E-09	9.14	1.06E-09
1,831.800	8.28E-09	9.16	9.04E-10
1,818.600	5.60E-09	9.09	6.16E-10
1,823.800	2.77E-09	9.12	3.03E-10
1,823.000	2.58E-09	9.12	2.83E-10
<b>Band Exposure Quotient:</b>			<b>1.81E-07</b>

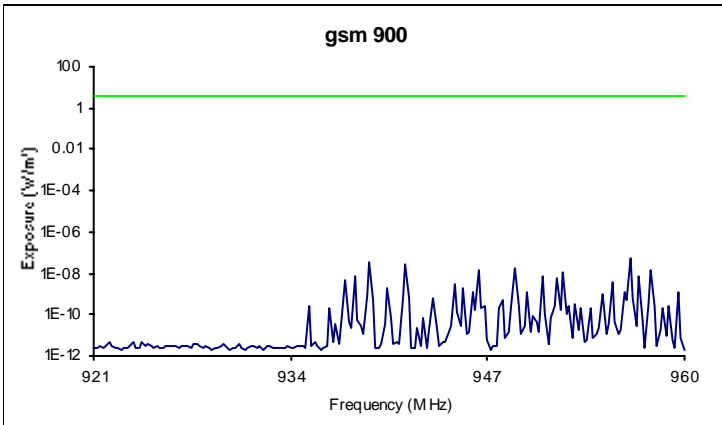


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,849.200	1.12E-05	9.25	1.22E-06
1,853.600	8.02E-06	9.27	8.65E-07
1,870.800	1.47E-06	9.35	1.57E-07
1,856.600	8.64E-07	9.28	9.31E-08
1,866.200	6.22E-07	9.33	6.66E-08
1,849.000	8.72E-08	9.24	9.44E-09
1,849.400	6.78E-08	9.25	7.33E-09
1,853.400	3.84E-08	9.27	4.14E-09
1,850.000	3.56E-08	9.25	3.85E-09
1,853.800	3.12E-08	9.27	3.37E-09
<b>Band Exposure Quotient:</b>			<b>2.43E-06</b>

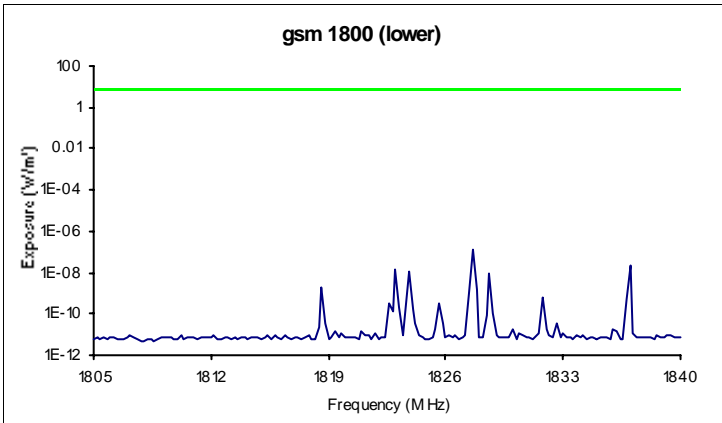
Total number of measurements: 572

**Total Band Exposure Quotient:** **2.96E-06**

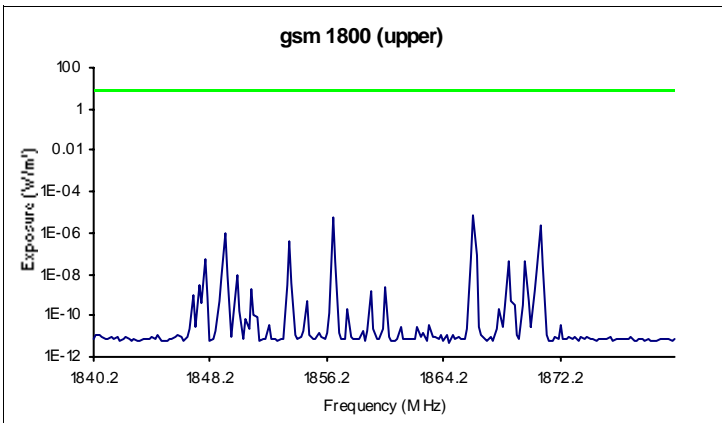
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> French Classroom (room 27)	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7721 0076 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 11:47:52	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
956.400	5.25E-08	4.78	1.10E-08
939.200	3.83E-08	4.70	8.16E-09
941.600	2.60E-08	4.71	5.53E-09
948.800	1.83E-08	4.74	3.86E-09
957.800	1.52E-08	4.79	3.17E-09
946.400	1.38E-08	4.73	2.92E-09
952.000	1.11E-08	4.76	2.34E-09
950.600	7.85E-09	4.75	1.65E-09
938.200	6.80E-09	4.69	1.45E-09
957.000	6.78E-09	4.79	1.42E-09
<b>Band Exposure Quotient:</b>			<b>4.95E-08</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.33E-07	9.14	1.46E-08
1,837.000	2.41E-08	9.19	2.62E-09
1,823.000	1.48E-08	9.12	1.63E-09
1,823.800	1.03E-08	9.12	1.13E-09
1,828.600	9.03E-09	9.14	9.87E-10
1,818.600	2.13E-09	9.09	2.34E-10
1,827.800	1.64E-09	9.14	1.79E-10
1,827.400	9.01E-10	9.14	9.86E-11
1,831.800	6.88E-10	9.16	7.52E-11
1,836.800	5.39E-10	9.18	5.87E-11
<b>Band Exposure Quotient:</b>			<b>2.19E-08</b>



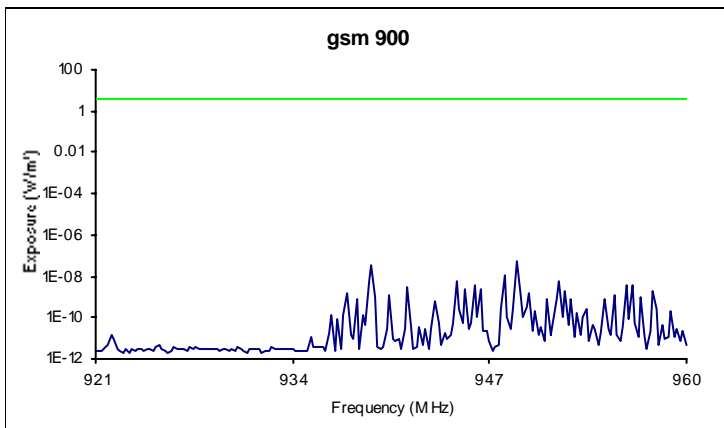
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,866.200	7.48E-06	9.33	8.01E-07
1,856.600	5.21E-06	9.28	5.61E-07
1,870.800	2.61E-06	9.35	2.79E-07
1,849.200	1.05E-06	9.25	1.13E-07
1,853.600	3.93E-07	9.27	4.24E-08
1,866.400	8.79E-08	9.33	9.42E-09
1,847.800	5.62E-08	9.24	6.08E-09
1,866.000	5.05E-08	9.33	5.42E-09
1,856.800	4.75E-08	9.28	5.12E-09
1,869.800	4.53E-08	9.35	4.85E-09
<b>Band Exposure Quotient:</b>			<b>1.84E-06</b>

Total number of measurements: 572

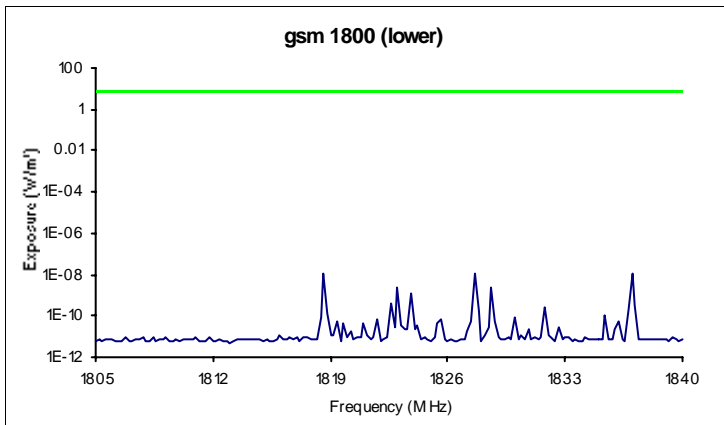
**Total Band Exposure Quotient:** **1.91E-06**



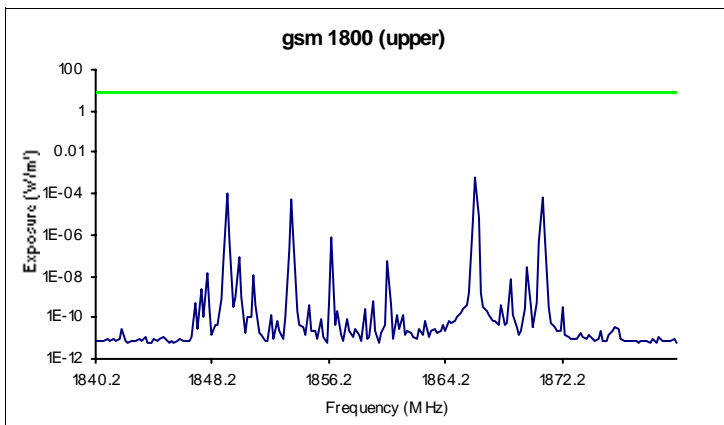
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Between the two Art classrooms	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7725 0074 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 12:51:30	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.800	5.28E-08	4.74	1.11E-08
939.200	3.57E-08	4.70	7.61E-09
948.000	1.05E-08	4.74	2.22E-09
951.600	5.96E-09	4.76	1.25E-09
944.800	5.36E-09	4.72	1.13E-09
939.000	5.28E-09	4.70	1.13E-09
946.000	4.17E-09	4.73	8.81E-10
956.400	3.89E-09	4.78	8.14E-10
956.000	3.39E-09	4.78	7.09E-10
941.600	3.13E-09	4.71	6.65E-10
<b>Band Exposure Quotient:</b>			<b>3.31E-08</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,837.000	1.21E-08	9.19	1.31E-09
1,827.600	1.11E-08	9.14	1.21E-09
1,818.600	1.02E-08	9.09	1.12E-09
1,828.600	2.37E-09	9.14	2.60E-10
1,823.000	2.25E-09	9.12	2.46E-10
1,823.800	1.18E-09	9.12	1.29E-10
1,822.600	4.08E-10	9.11	4.48E-11
1,837.200	3.10E-10	9.19	3.38E-11
1,831.800	2.87E-10	9.16	3.13E-11
1,836.800	2.30E-10	9.18	2.50E-11
<b>Band Exposure Quotient:</b>			<b>4.68E-09</b>

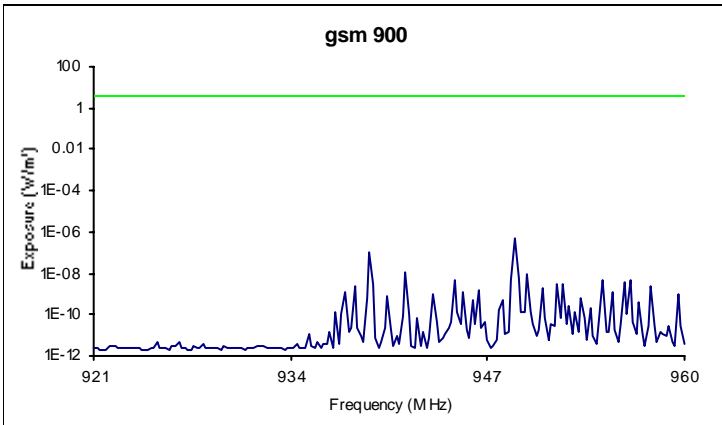


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,866.200	5.94E-04	9.33	6.36E-05
1,849.200	1.03E-04	9.25	1.11E-05
1,870.800	6.72E-05	9.35	7.18E-06
1,853.600	5.55E-05	9.27	5.99E-06
1,866.400	6.51E-06	9.33	6.98E-07
1,866.000	4.40E-06	9.33	4.72E-07
1,871.000	9.71E-07	9.36	1.04E-07
1,856.400	8.44E-07	9.28	9.09E-08
1,853.800	5.68E-07	9.27	6.13E-08
1,870.600	5.09E-07	9.35	5.45E-08
<b>Band Exposure Quotient:</b>			<b>8.95E-05</b>

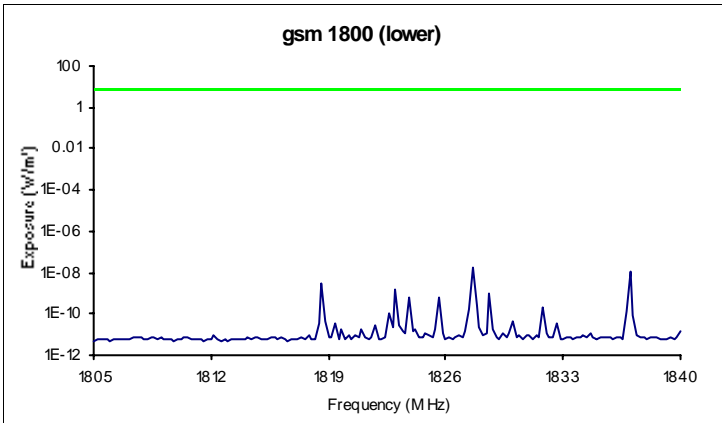
Total number of measurements: 572

**Total Band Exposure Quotient:** **8.95E-05**

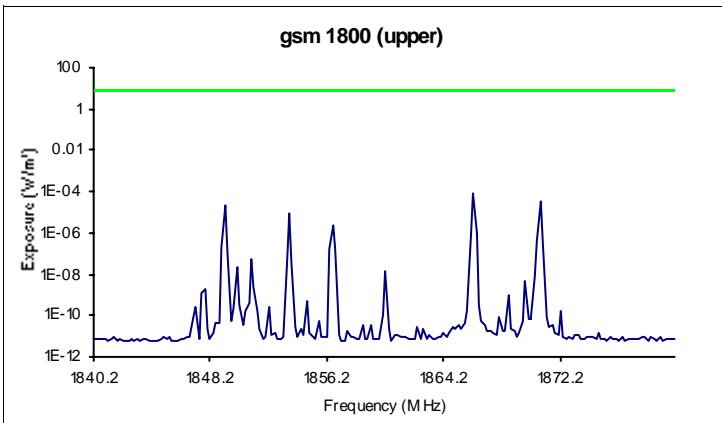
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Middle of car park opposite main entrance	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7724 0082 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 13:09:35	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.800	5.04E-07	4.74	1.06E-07
939.200	1.08E-07	4.70	2.30E-08
941.600	1.11E-08	4.71	2.36E-09
949.600	8.99E-09	4.75	1.89E-09
949.000	5.66E-09	4.75	1.19E-09
956.400	5.13E-09	4.78	1.07E-09
954.600	4.88E-09	4.77	1.02E-09
948.600	4.60E-09	4.74	9.69E-10
944.800	4.45E-09	4.72	9.43E-10
956.000	3.89E-09	4.78	8.14E-10
<b>Band Exposure Quotient:</b>			<b>1.46E-07</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.72E-08	9.14	1.88E-09
1,837.000	1.21E-08	9.19	1.31E-09
1,818.600	3.15E-09	9.09	3.46E-10
1,823.000	1.48E-09	9.12	1.63E-10
1,828.600	9.03E-10	9.14	9.87E-11
1,825.600	6.81E-10	9.13	7.46E-11
1,823.800	6.05E-10	9.12	6.64E-11
1,827.800	2.66E-10	9.14	2.91E-11
1,831.800	1.99E-10	9.16	2.17E-11
1,827.400	1.49E-10	9.14	1.64E-11
<b>Band Exposure Quotient:</b>			<b>4.20E-09</b>

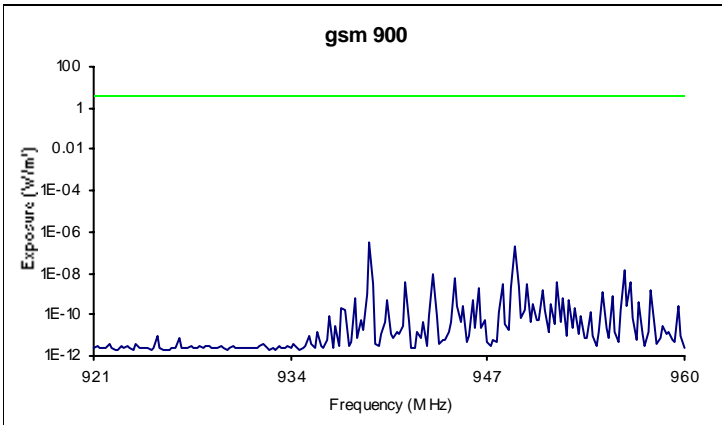


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,866.200	8.39E-05	9.33	8.99E-06
1,870.800	3.37E-05	9.35	3.60E-06
1,849.200	1.95E-05	9.25	2.11E-06
1,853.600	9.21E-06	9.27	9.94E-07
1,856.600	2.55E-06	9.28	2.75E-07
1,866.400	1.01E-06	9.33	1.08E-07
1,866.000	6.36E-07	9.33	6.82E-08
1,871.000	3.69E-07	9.36	3.95E-08
1,870.600	3.61E-07	9.35	3.85E-08
1,849.000	1.87E-07	9.24	2.02E-08
<b>Band Exposure Quotient:</b>			<b>1.63E-05</b>

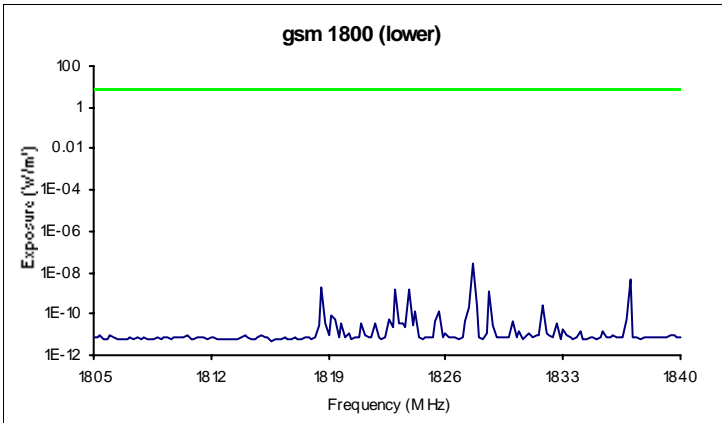
Total number of measurements: 572

**Total Band Exposure Quotient:** **1.65E-05**

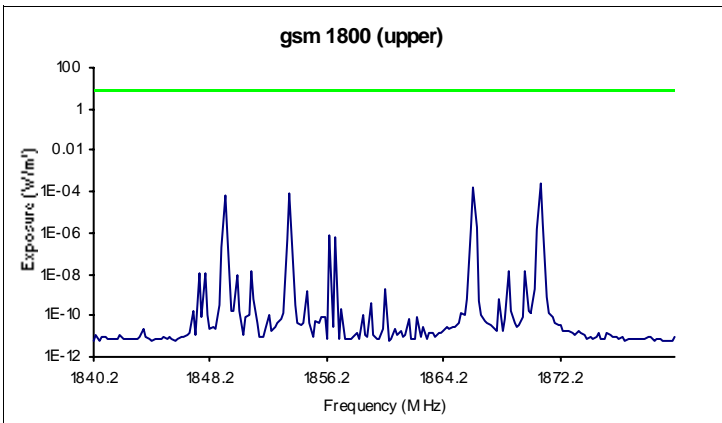
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Outside Hut 37	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7726 0075 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 13:26:57	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
939.200	3.04E-07	4.70	6.48E-08
948.800	2.20E-07	4.74	4.64E-08
956.000	1.45E-08	4.78	3.02E-09
943.400	8.86E-09	4.72	1.88E-09
944.800	6.29E-09	4.72	1.33E-09
956.400	3.98E-09	4.78	8.33E-10
951.600	3.43E-09	4.76	7.21E-10
941.600	3.35E-09	4.71	7.12E-10
949.600	3.19E-09	4.75	6.72E-10
939.400	3.11E-09	4.70	6.63E-10
<b>Band Exposure Quotient:</b>			<b>1.26E-07</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	2.72E-08	9.14	2.98E-09
1,837.000	4.81E-09	9.19	5.23E-10
1,818.600	2.03E-09	9.09	2.23E-10
1,823.800	1.67E-09	9.12	1.83E-10
1,823.000	1.63E-09	9.12	1.78E-10
1,828.600	1.16E-09	9.14	1.27E-10
1,827.800	2.79E-10	9.14	3.05E-11
1,831.800	2.56E-10	9.16	2.79E-11
1,827.400	2.26E-10	9.14	2.48E-11
1,825.600	1.46E-10	9.13	1.60E-11
<b>Band Exposure Quotient:</b>			<b>4.52E-09</b>

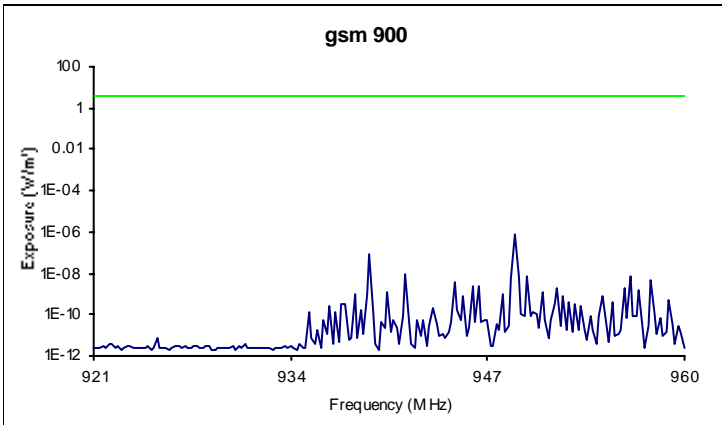


Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.800	2.33E-04	9.35	2.49E-05
1,866.200	1.79E-04	9.33	1.92E-05
1,853.600	7.49E-05	9.27	8.08E-06
1,849.200	6.04E-05	9.25	6.53E-06
1,871.000	3.00E-06	9.36	3.21E-07
1,866.400	1.84E-06	9.33	1.97E-07
1,870.600	1.54E-06	9.35	1.64E-07
1,866.000	1.46E-06	9.33	1.56E-07
1,853.800	1.24E-06	9.27	1.34E-07
1,856.400	7.88E-07	9.28	8.49E-08
<b>Band Exposure Quotient:</b>			<b>6.00E-05</b>

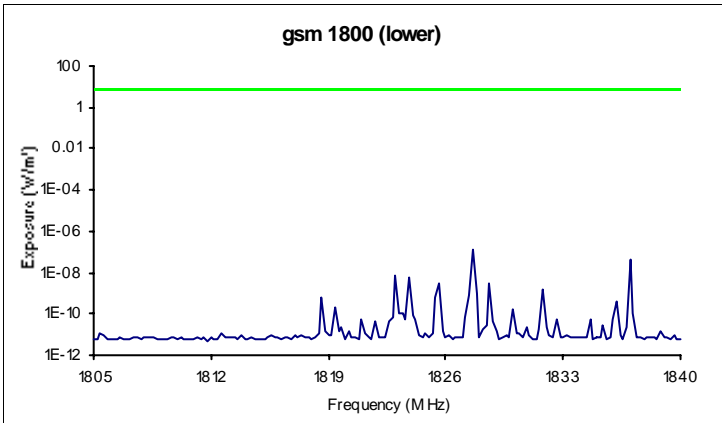
Total number of measurements: 572

**Total Band Exposure Quotient:** **6.01E-05**

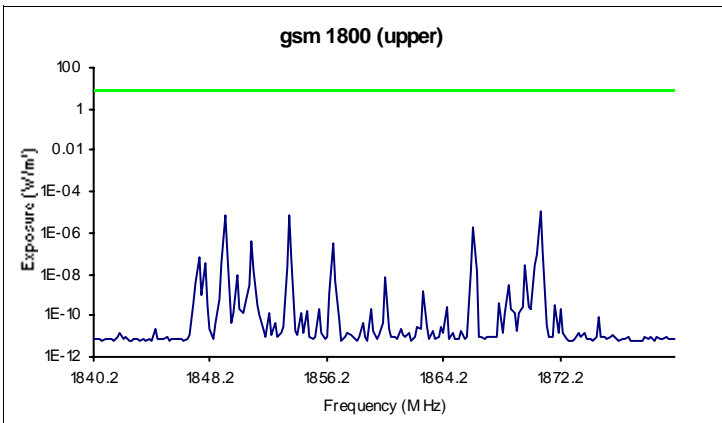
<b>Site:</b> Dunblane High School	<b>Receiver:</b>
<b>Location:</b> Outside entrance to football pitch	Manufacturer: ROHDE&SCHWARZ
<b>NGR:</b> NN 7711 0083 <b>Taken from GPS</b>	Model: EB200
<b>Start Time:</b> 13 October 2004 13:44:08	Serial Number: 838.681/029
<b>Officer:</b> Jeannie Rees	<b>Antenna:</b>
	Manufacturer: Rohde & Schwarz
	Model: HE200
	Serial Number: 838681/002



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
948.800	6.96E-07	4.74	1.47E-07
939.200	9.19E-08	4.70	1.96E-08
941.600	8.82E-09	4.71	1.87E-09
949.000	7.82E-09	4.75	1.65E-09
949.600	7.47E-09	4.75	1.57E-09
956.400	7.25E-09	4.78	1.52E-09
948.600	6.35E-09	4.74	1.34E-09
957.800	4.59E-09	4.79	9.58E-10
944.800	4.16E-09	4.72	8.80E-10
946.400	2.35E-09	4.73	4.96E-10
<b>Band Exposure Quotient:</b>			<b>1.81E-07</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,827.600	1.22E-07	9.14	1.33E-08
1,837.000	4.28E-08	9.19	4.66E-09
1,823.000	6.78E-09	9.12	7.44E-10
1,823.800	5.39E-09	9.12	5.91E-10
1,828.600	2.99E-09	9.14	3.27E-10
1,825.600	2.71E-09	9.13	2.97E-10
1,831.800	1.58E-09	9.16	1.72E-10
1,827.800	1.06E-09	9.14	1.16E-10
1,827.400	7.84E-10	9.14	8.59E-11
1,818.600	6.28E-10	9.09	6.91E-11
<b>Band Exposure Quotient:</b>			<b>2.08E-08</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.800	1.09E-05	9.35	1.16E-06
1,849.200	7.09E-06	9.25	7.67E-07
1,853.600	6.52E-06	9.27	7.03E-07
1,866.200	1.75E-06	9.33	1.88E-07
1,851.000	3.82E-07	9.26	4.13E-08
1,856.600	3.21E-07	9.28	3.46E-08
1,871.000	9.71E-08	9.36	1.04E-08
1,849.400	9.14E-08	9.25	9.89E-09
1,870.600	8.85E-08	9.35	9.46E-09
1,847.400	6.60E-08	9.24	7.15E-09
<b>Band Exposure Quotient:</b>			<b>2.97E-06</b>

Total number of measurements: 572

**Total Band Exposure Quotient:** **3.17E-06**

## 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 RA 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( $\mu$ V/m)) converted to an equivalent power density (W/m<sup>2</sup>)
- 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<sup>2</sup>)
- ICNIRP Limit:** The reference level given by the International Commission for Non-Ionizing Radiation Protection (ICNIRP) for general public exposure to electromagnetic fields

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

(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