

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



**Mobile Phone
Base-Station Audit**

**Audit Site: Holland House School
1 Broadhurst Avenue
Edgware
Middlesex
HA8 8TP**

Work Performed by		Distribution List	
James Loughlin Field Manager	3G measurements & Report	Lloyd Tailby	1
Mike Reynolds Field Officer	3G measurements	Irina Tyk	1
W. White T.I. Officer	2G measurements & 2G Report	W. White	1
		Technical Manager	1
		Case/Year file	2

This page left intentionally blank

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) performed this survey of the RF emission environment in the vicinity of Holland House School, Edgware, Middlesex on the 29th September 2005. 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	3G Exposure Quotient	2G Exposure Quotient	TOTAL 3G + 2G Exp. Quot.	Related to ICNIRP limit
Form IK	2.24E-04	2.23E-04	4.47E-04	1/2237
Staffroom (first Floor)	7.17E-05	1.95E-04	2.67E-04	1/3750
Playground (by Main Gate)	1.65E-04	9.82E-05	2.63E-04	1/3799
Nursery Playground	2.74E-05	1.21E-04	1.48E-04	1/6739
Form II (first floor)	1.48E-05	7.00E-05	8.48E-05	1/11792
Centre Playground	5.78E-07	3.05E-06	3.63E-06	1/275634

The Cheshunt office carried out the 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.

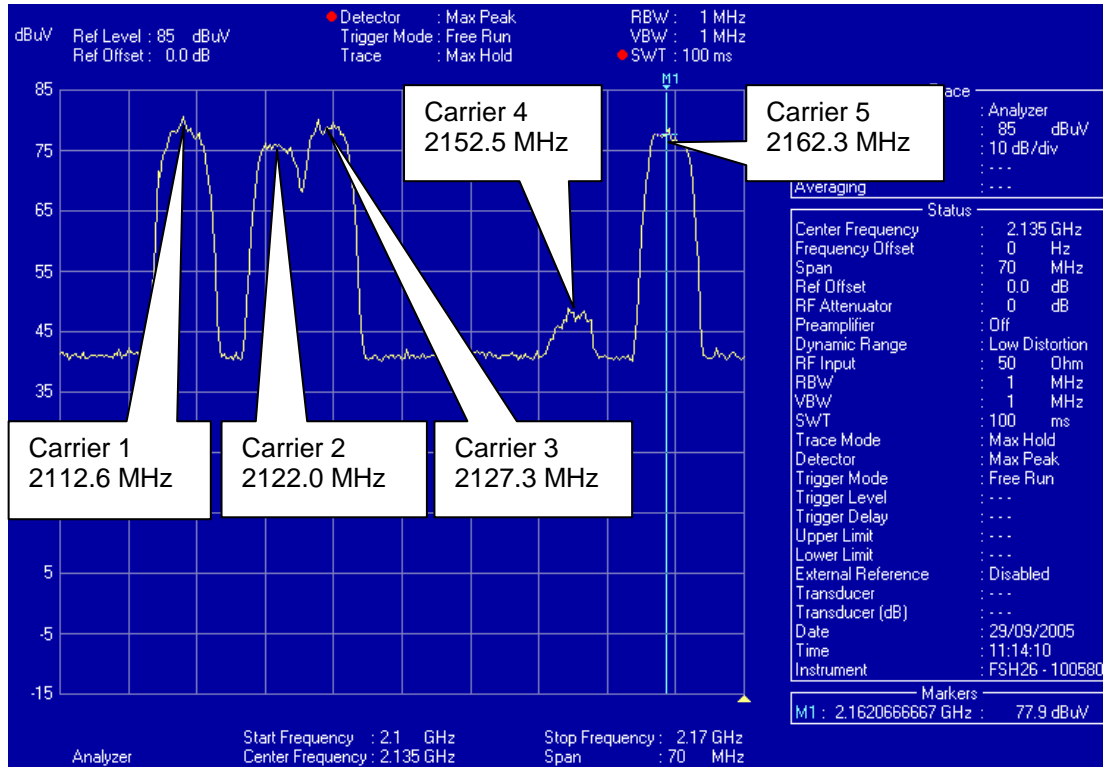


Figure 1

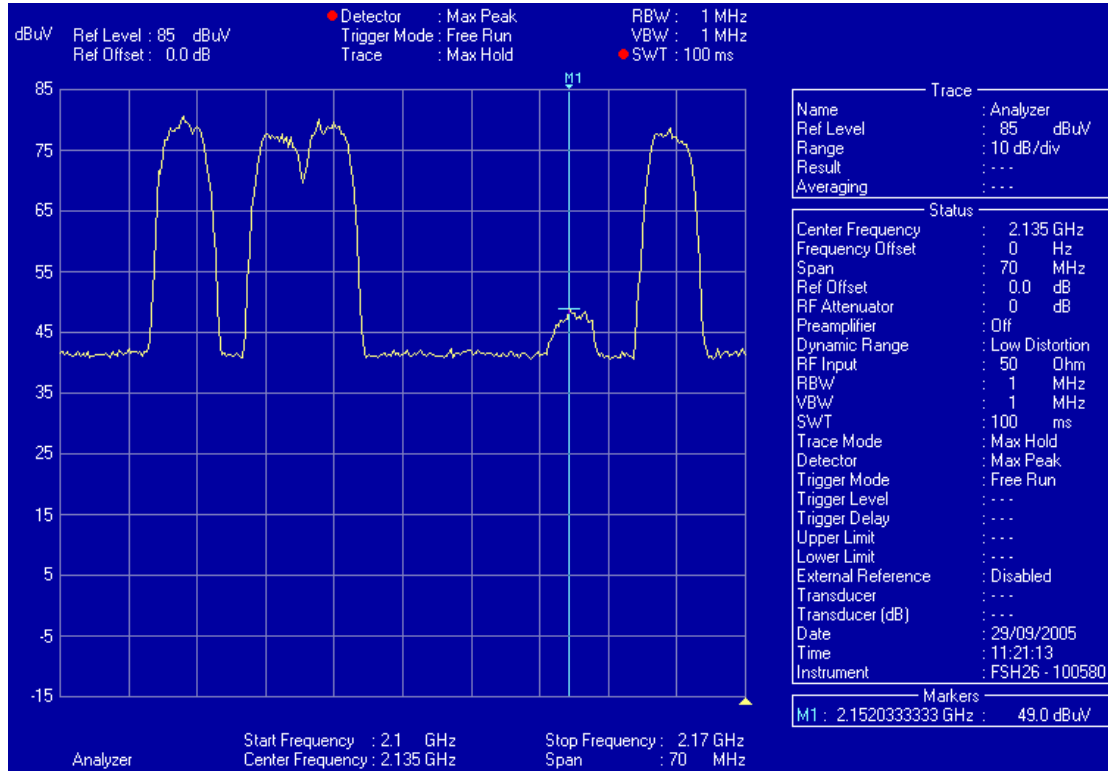
Figure 1 shows that five transmissions were active in this area. At each measurement location the measuring antenna was then set up on a tripod 1.5m above ground or floor level. In this position each of the carriers field strengths were recorded.

For each measurement location the 3G exposure quotient was then calculated for the individual carriers and then the total exposure quotient for all five carriers was calculated. 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 on pages 5 to 10, while the 2G data is contained in the annex to this report.

Equipment:	serial number:	CEMS number
FSH6 Spectrum Analyser	100580	200103
EMCO DRG 3115 horn Antenna	2153	200005
Garmin GPS75 receiver	37524369	200011
Reynolds cable type 219-0088 0201 067		-

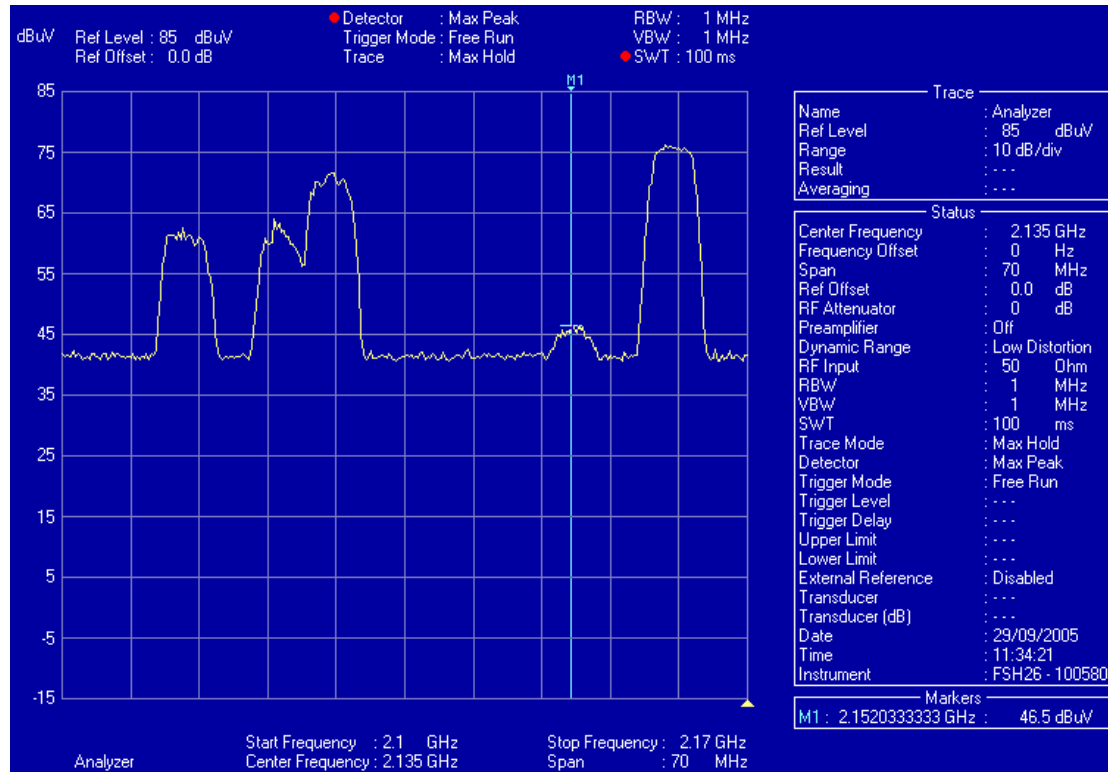
Location 1: Playground (by Main Gate)



Location 1: Playground (by Main Gate)

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	113.2	457,088.2	0.457088	0.0005541895	0.0005542	10	0.000055418950	5.54E-05
2	2122	109.7	305,492.1	0.305492	0.0002475474	0.0002475	10	0.000024754740	2.48E-05
3	2127.3	112.7	431,519.1	0.431519	0.0004939221	0.0004939	10	0.000049392210	4.94E-05
4	2152.5	81.5	11,885.0	0.011885	0.0000003747	3.747E-07	10	0.000000037470	3.75E-08
5	2162.3	111.2	363,078.1	0.363078	0.0003496701	0.0003497	10	0.000034967010	3.50E-05
									TOTAL 1.65E-04

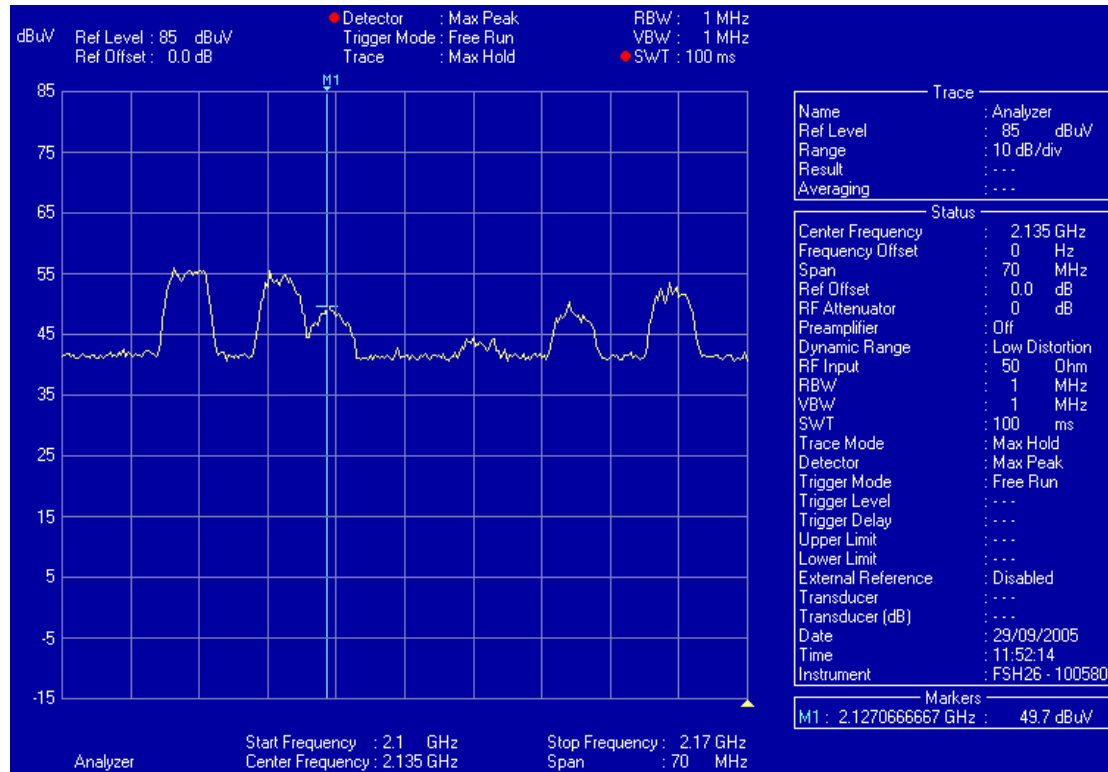
Location 2: Nursery Playground



Location 2: Nursery Playground

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	95.1	56,885.3	0.056885	0.0000085833	8.583E-06	10	0.00000858330	8.58E-07
2	2122	96.7	68,391.2	0.068391	0.0000124067	1.241E-05	10	0.000001240670	1.24E-06
3	2127.3	104.2	162,181.0	0.162181	0.0000697684	6.977E-05	10	0.000006976840	6.98E-06
4	2152.5	79	8,912.5	0.008913	0.0000002107	2.107E-07	10	0.000000021070	2.11E-08
5	2162.3	108.4	263,026.8	0.263027	0.0001835098	0.0001835	10	0.000018350980	1.84E-05
									TOTAL 2.74E-05

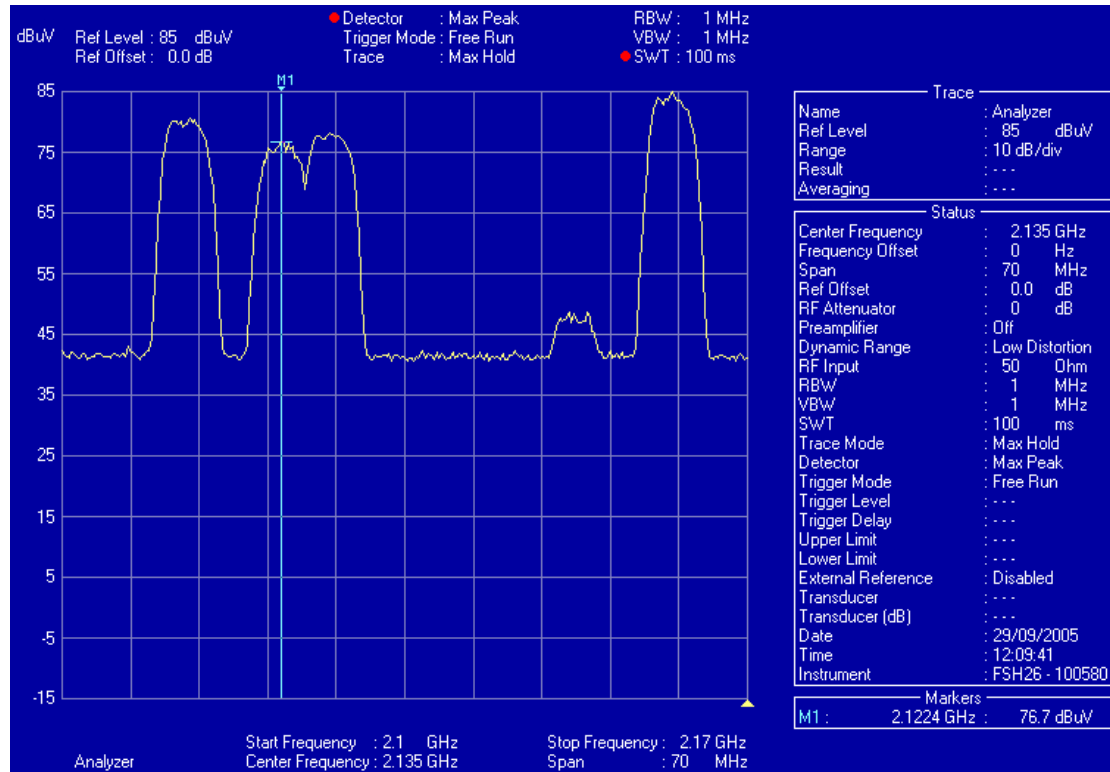
Location 3: Centre Main Playground



Location 3: Centre Main Playground

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	88.7	27,227.0	0.027227	0.0000019663	1.966E-06	10	0.000000196630	1.97E-07
2	2122	88.2	25,704.0	0.025704	0.0000017525	1.753E-06	10	0.000000175250	1.75E-07
3	2127.3	82.2	12,882.5	0.012883	0.0000004402	4.402E-07	10	0.000000044020	4.40E-08
4	2152.5	83.1	14,288.9	0.014289	0.0000005416	5.416E-07	10	0.000000054160	5.42E-08
5	2162.3	86.1	20,183.7	0.020184	0.0000010806	1.081E-06	10	0.000000108060	1.08E-07
									TOTAL 5.78E-07

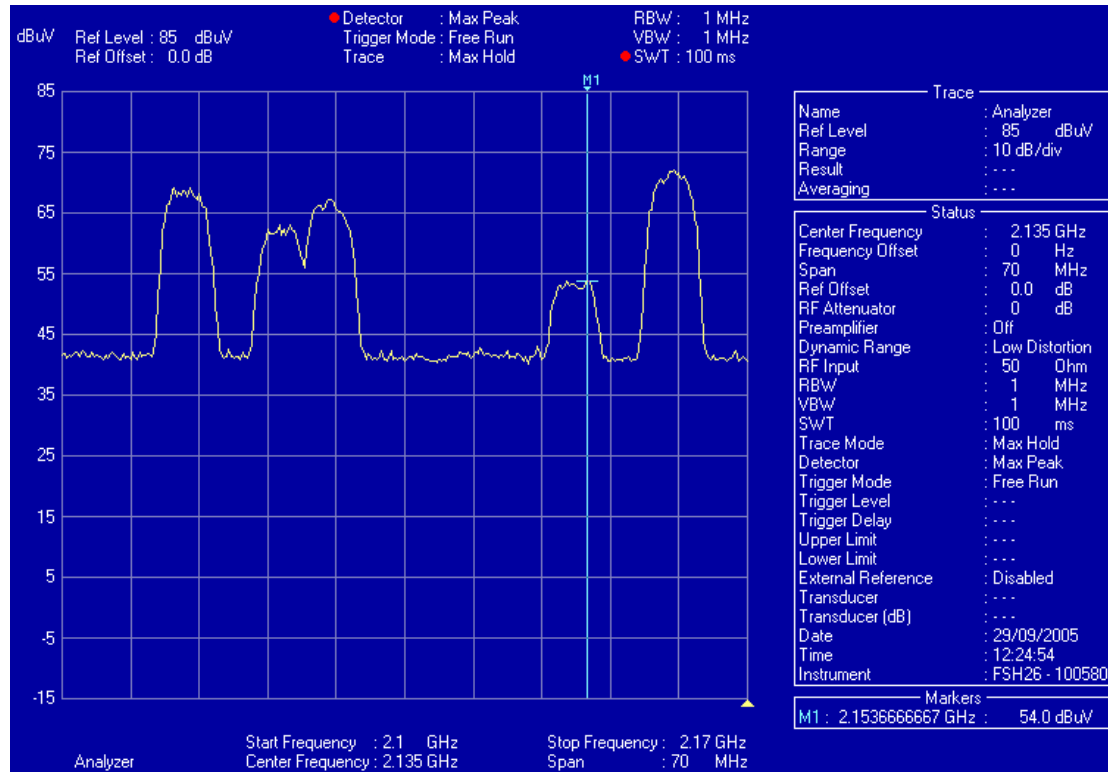
Location 4: Form IK



Location 4: Form IK

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	113.2	457,088.2	0.457088	0.0005541895	0.0005542	10	0.000055418950	5.54E-05
2	2122	109.2	288,403.2	0.288403	0.0002206268	0.0002206	10	0.000022062680	2.21E-05
3	2127.3	110.7	342,767.8	0.342768	0.0003116443	0.0003116	10	0.000031164430	3.12E-05
4	2152.5	81.4	11,749.0	0.011749	0.0000003662	3.662E-07	10	0.000000036620	3.66E-08
5	2162.3	116.4	660,693.4	0.660693	0.0011578654	0.0011579	10	0.000115786540	1.16E-04
TOTAL									2.24E-04

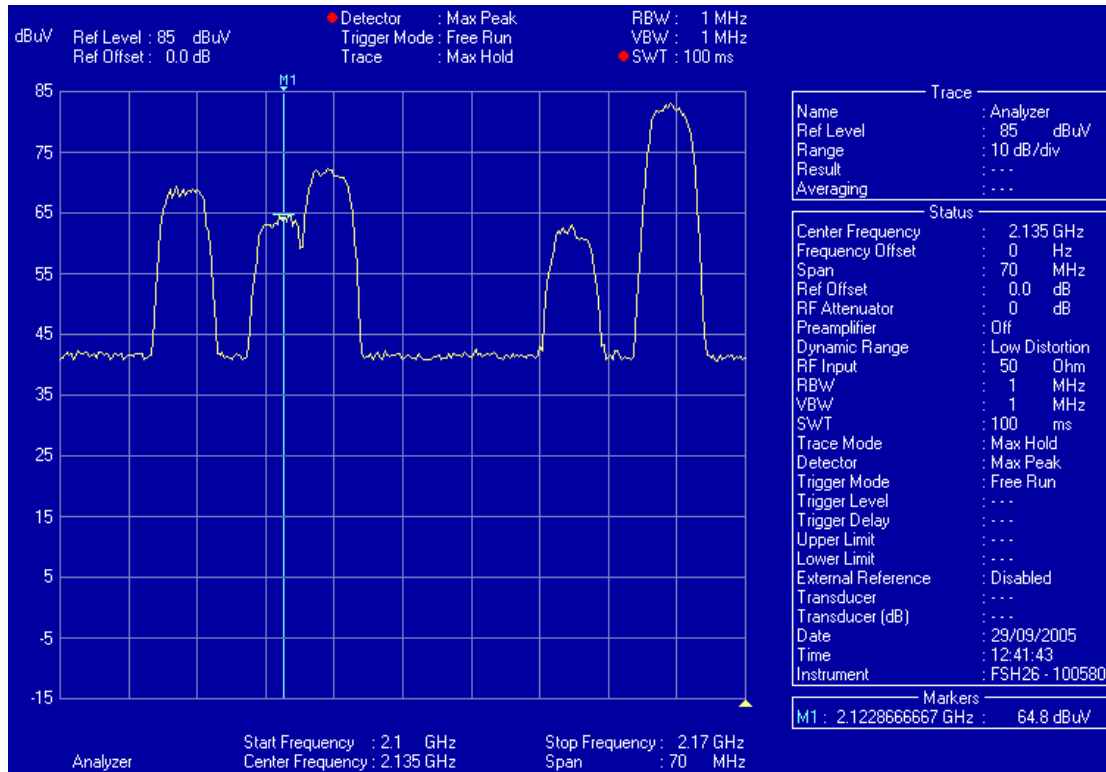
Location 5: Form II (first floor)



Location 5: Form II (first floor)

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	101.7	121,618.6	0.121619	0.0000392339	3.923E-05	10	0.000003923390	3.92E-06
2	2122	95.6	60,256.0	0.060256	0.0000096307	9.631E-06	10	0.000000963070	9.63E-07
3	2127.3	99.7	96,605.1	0.096605	0.0000247547	2.475E-05	10	0.000002475470	2.48E-06
4	2152.5	86.5	21,134.9	0.021135	0.0000011848	1.185E-06	10	0.000000118480	1.18E-07
5	2162.3	104.4	165,958.7	0.165959	0.0000730567	7.306E-05	10	0.000007305670	7.31E-06
									TOTAL 1.48E-05

Location 6: Staffroom (first floor)



Location 6: Staffroom (first floor)

Channel	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m ²	Power W/m ²	ICNIRP W/m ²	3G Exposure Quotient	3G Exposure Quotient
1	2112.6	102	125,892.5	0.125893	0.0000420399	4.204E-05	10	0.000004203990	4.20E-06
2	2122	97.3	73,282.5	0.073283	0.0000142451	1.425E-05	10	0.000001424510	1.42E-06
3	2127.3	105	177,827.9	0.177828	0.0000838801	8.388E-05	10	0.000008388010	8.39E-06
4	2152.5	95.6	60,256.0	0.060256	0.0000096307	9.631E-06	10	0.000000963070	9.63E-07
5	2162.3	113.3	462,381.0	0.462381	0.0005670986	0.0005671	10	0.000056709860	5.67E-05
									TOTAL 7.17E-05

Annex

2G Mobile Phone Base-Station Audit

Mobile Phone Base-Station Audit

**Audit site: HOLLAND HOUSE SCHOOL
1 BROADHURST AVENUE
EDGWARE
MIDDLESEX
HA8 8TP**

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 HOLLAND HOUSE SCHOOL on 29 September 2005.

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
FORM 1K	2.23E-04	1/4486
STAFF ROOM	1.95E-04	1/5130
NURSERY PLAYGROUND	1.21E-04	1/8272
PLAYGROUND BY MAIN GATE	9.82E-05	1/10181
FORM 2	7.00E-05	1/14286
CENTRE MAIN PLAYGROUND	3.05E-06	1/328167

Issued on behalf of Ofcom.

Issued by:

Received by:

BW
Technical Investigation Officer

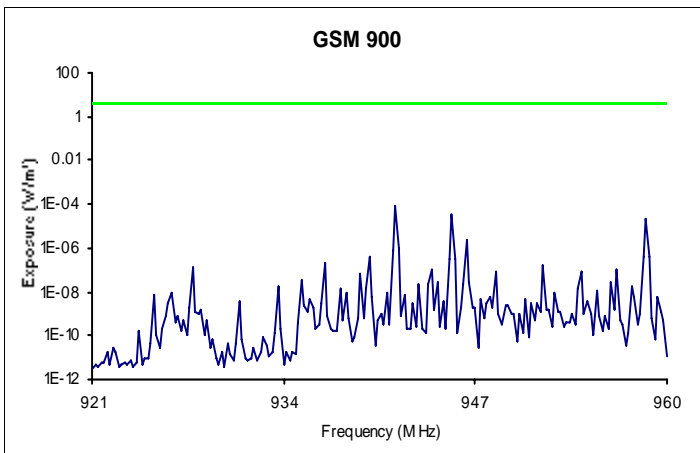
MRS IRINA TYK
HEADMISTRESS

Site: HOLLAND HOUSE SCHOOL
Location: PLAYGROUND BY MAIN GATE

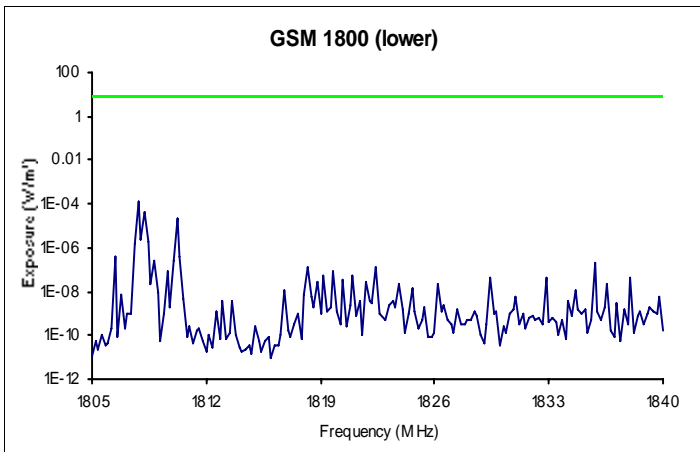
NGR: TQ 1960 9290 **Taken from GPS**
Start Time: 29 September 2005 11:26:43
Officer: BW

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 837.752/028

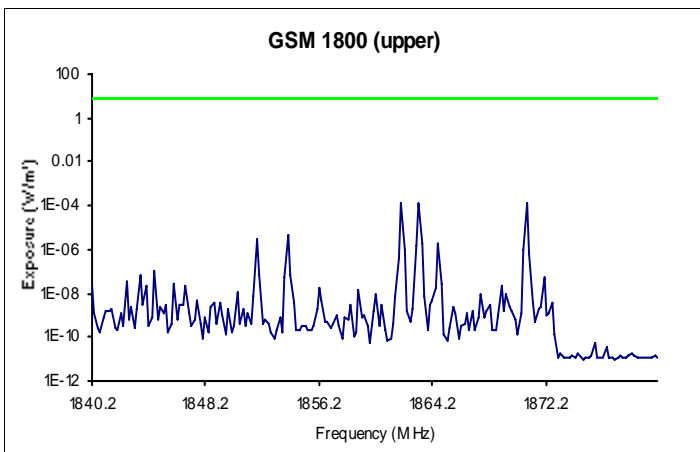
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	8.43E-05	4.71	1.79E-05
945.400	3.63E-05	4.73	7.67E-06
958.600	2.20E-05	4.79	4.59E-06
946.400	2.40E-06	4.73	5.07E-07
941.800	9.03E-07	4.71	1.92E-07
941.400	7.68E-07	4.71	1.63E-07
939.800	4.30E-07	4.70	9.16E-08
958.800	3.65E-07	4.79	7.62E-08
958.400	3.65E-07	4.79	7.62E-08
945.200	3.38E-07	4.73	7.16E-08
Band Exposure Quotient:			3.17E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.800	1.32E-04	9.04	1.46E-05
1,808.200	4.08E-05	9.04	4.51E-06
1,810.200	2.35E-05	9.05	2.60E-06
1,808.000	2.29E-06	9.04	2.53E-07
1,808.400	2.09E-06	9.04	2.31E-07
1,807.600	1.41E-06	9.04	1.56E-07
1,806.400	3.97E-07	9.03	4.40E-08
1,810.400	3.82E-07	9.05	4.22E-08
1,808.800	2.46E-07	9.04	2.72E-08
1,810.000	2.41E-07	9.05	2.66E-08
Band Exposure Quotient:			2.26E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,863.200	1.38E-04	9.32	1.49E-05
1,862.000	1.29E-04	9.31	1.39E-05
1,870.800	1.25E-04	9.35	1.34E-05
1,854.000	4.62E-06	9.27	4.98E-07
1,851.800	3.26E-06	9.26	3.52E-07
1,864.600	1.92E-06	9.32	2.06E-07
1,863.400	1.83E-06	9.32	1.96E-07
1,863.000	1.63E-06	9.31	1.75E-07
1,870.600	1.04E-06	9.35	1.11E-07
1,862.200	8.93E-07	9.31	9.59E-08
Band Exposure Quotient:			4.39E-05

Total number of measurements 572

Total Band Exposure Quotient: **9.82E-05**

Site: HOLLAND HOUSE SCHOOL

Location: NURSERY PLAYGROUND

NGR: TQ 1957 9288 **Taken from GPS**

Start Time: 29 September 2005 11:42:47

Officer: BW

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

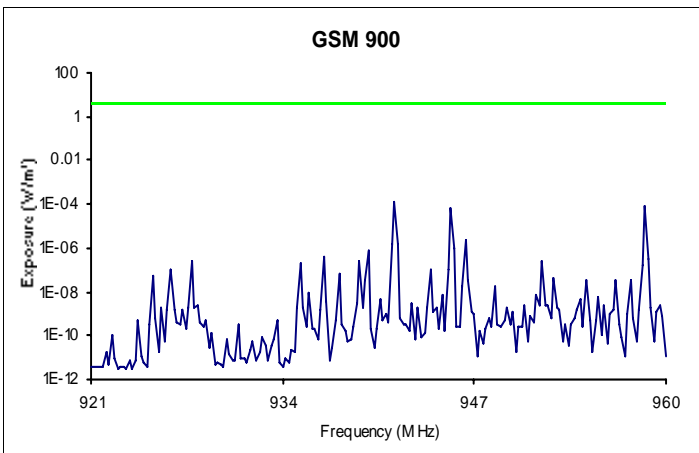
Serial Number: 837.752/028

Antenna:

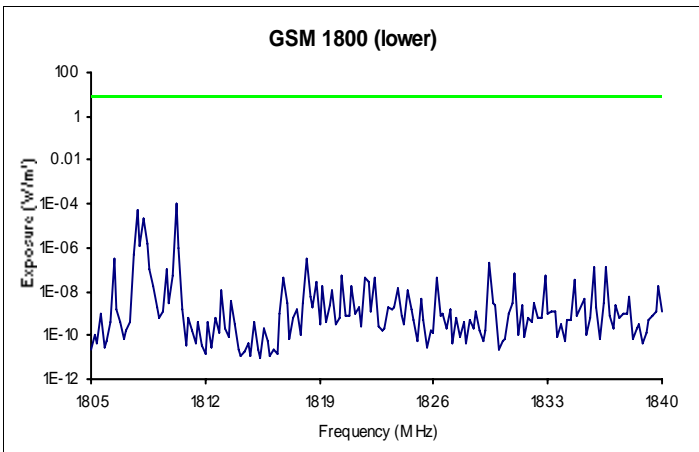
Manufacturer: Rohde & Schwarz

Model: HE200

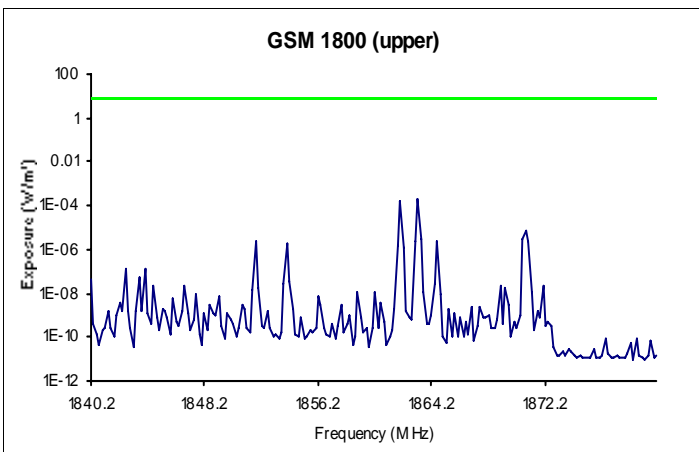
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	1.22E-04	4.71	2.59E-05
958.600	9.17E-05	4.79	1.91E-05
945.400	6.45E-05	4.73	1.36E-05
946.400	2.35E-06	4.73	4.96E-07
941.800	1.37E-06	4.71	2.90E-07
941.400	1.37E-06	4.71	2.90E-07
945.600	1.02E-06	4.73	2.16E-07
939.800	6.98E-07	4.70	1.49E-07
936.800	4.18E-07	4.68	8.92E-08
958.800	3.18E-07	4.79	6.64E-08
Band Exposure Quotient:			6.07E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,810.200	9.81E-05	9.05	1.08E-05
1,807.800	5.75E-05	9.04	6.36E-06
1,808.200	2.00E-05	9.04	2.21E-06
1,808.400	1.41E-06	9.04	1.56E-07
1,808.000	1.35E-06	9.04	1.49E-07
1,810.400	9.81E-07	9.05	1.08E-07
1,807.600	4.78E-07	9.04	5.29E-08
1,806.400	3.01E-07	9.03	3.33E-08
1,818.200	2.94E-07	9.09	3.23E-08
1,829.400	2.22E-07	9.15	2.43E-08
Band Exposure Quotient:			2.01E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,863.200	2.00E-04	9.32	2.15E-05
1,862.000	1.45E-04	9.31	1.55E-05
1,870.800	7.89E-06	9.35	8.44E-07
1,870.600	3.00E-06	9.35	3.21E-07
1,863.400	2.96E-06	9.32	3.18E-07
1,864.600	2.53E-06	9.32	2.71E-07
1,851.800	2.25E-06	9.26	2.43E-07
1,863.000	2.25E-06	9.31	2.41E-07
1,871.000	2.22E-06	9.36	2.38E-07
1,854.000	1.97E-06	9.27	2.13E-07
Band Exposure Quotient:			4.01E-05

Total number of measurements 572

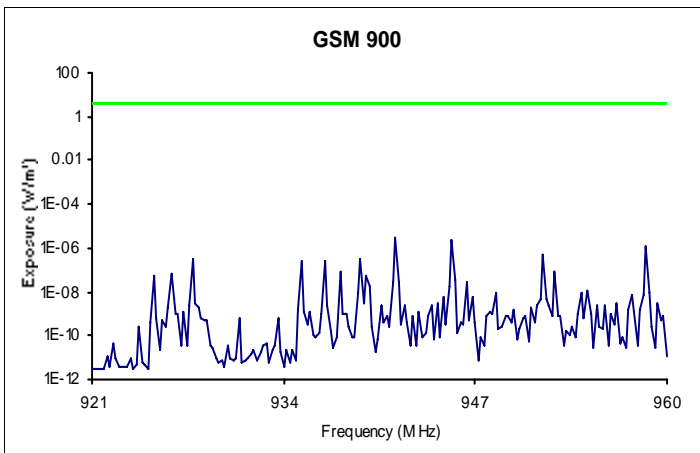
Total Band Exposure Quotient: 1.21E-04

Site: HOLLAND HOUSE SCHOOL
Location: CENTRE MAIN PLAYGROUND

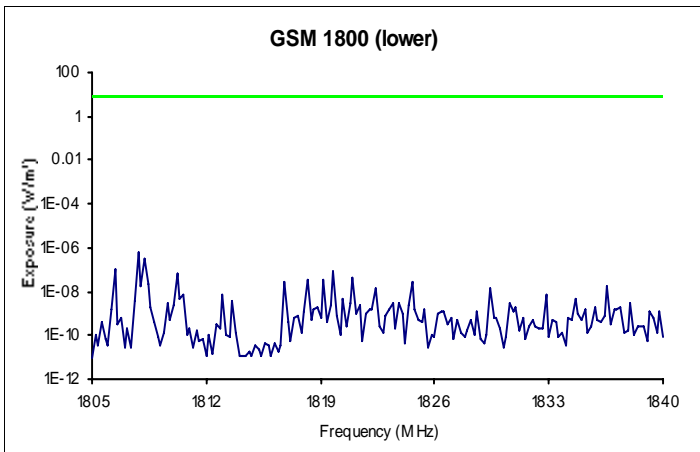
NGR: TQ 1959 9287 **Taken from GPS**
Start Time: 29 September 2005 11:59:33
Officer: BW

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 837.752/028

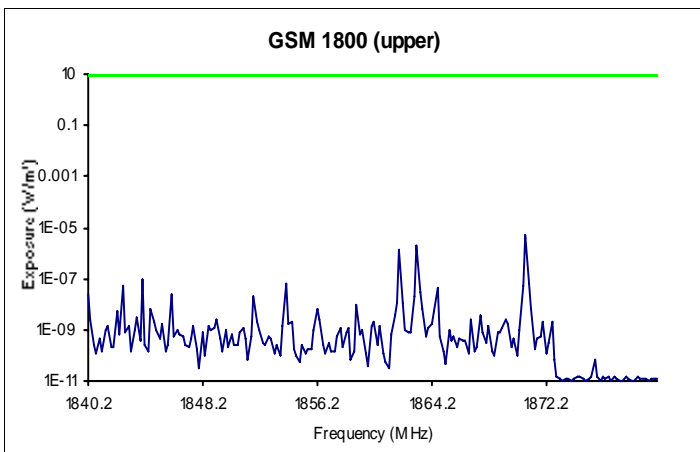
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	3.13E-06	4.71	6.65E-07
945.400	2.34E-06	4.73	4.95E-07
958.600	1.21E-06	4.79	2.52E-07
951.600	4.85E-07	4.76	1.02E-07
939.200	3.41E-07	4.70	7.27E-08
927.800	2.96E-07	4.64	6.39E-08
936.800	2.52E-07	4.68	5.37E-08
935.200	2.45E-07	4.68	5.24E-08
952.400	8.84E-08	4.76	1.86E-08
937.800	8.55E-08	4.69	1.82E-08
Band Exposure Quotient:			1.90E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.800	6.60E-07	9.04	7.31E-08
1,808.200	3.24E-07	9.04	3.58E-08
1,806.400	1.14E-07	9.03	1.27E-08
1,819.800	8.30E-08	9.10	9.12E-09
1,810.200	6.79E-08	9.05	7.50E-09
1,821.000	4.07E-08	9.11	4.47E-09
1,819.200	3.54E-08	9.10	3.89E-09
1,818.200	3.22E-08	9.09	3.54E-09
1,816.800	2.93E-08	9.08	3.22E-09
1,824.600	2.65E-08	9.12	2.90E-09
Band Exposure Quotient:			1.81E-07



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.800	4.75E-06	9.35	5.08E-07
1,863.200	2.10E-06	9.32	2.25E-07
1,862.000	1.48E-06	9.31	1.59E-07
1,844.000	9.27E-08	9.22	1.01E-08
1,871.000	6.42E-08	9.36	6.86E-09
1,854.000	6.09E-08	9.27	6.57E-09
1,842.600	5.57E-08	9.21	6.05E-09
1,870.600	5.33E-08	9.35	5.70E-09
1,864.600	4.00E-08	9.32	4.29E-09
1,863.400	2.83E-08	9.32	3.04E-09
Band Exposure Quotient:			9.63E-07

Total number of measurements 572

Total Band Exposure Quotient: **3.05E-06**

Site: HOLLAND HOUSE SCHOOL

Location: FORM 1K

NGR: TQ 1957 9289 **Taken from GPS**

Start Time: 29 September 2005 12:14:22

Officer: BW

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

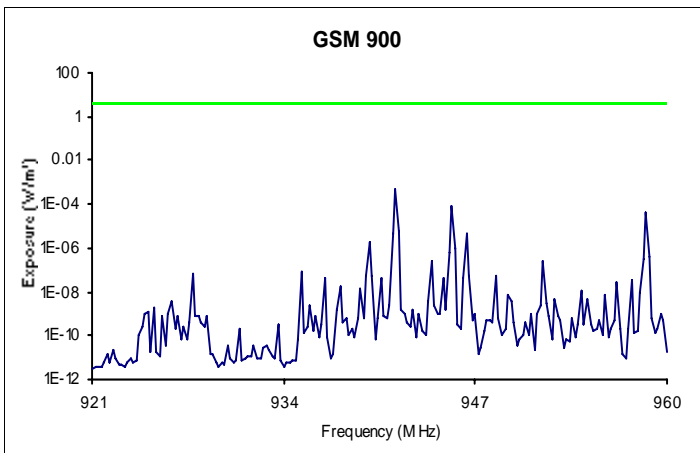
Serial Number: 837.752/028

Antenna:

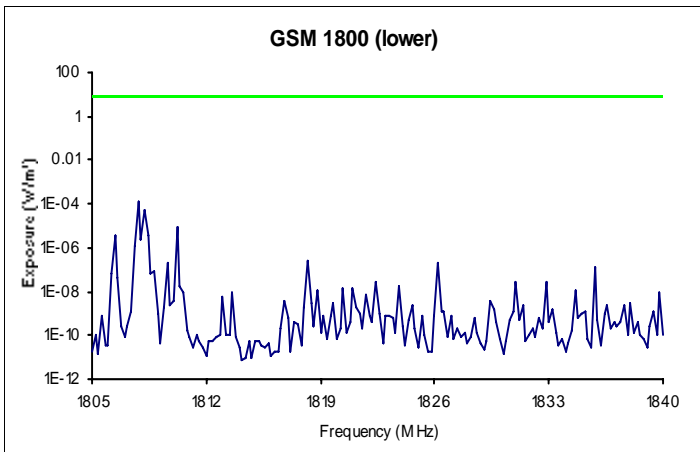
Manufacturer: Rohde & Schwarz

Model: HE200

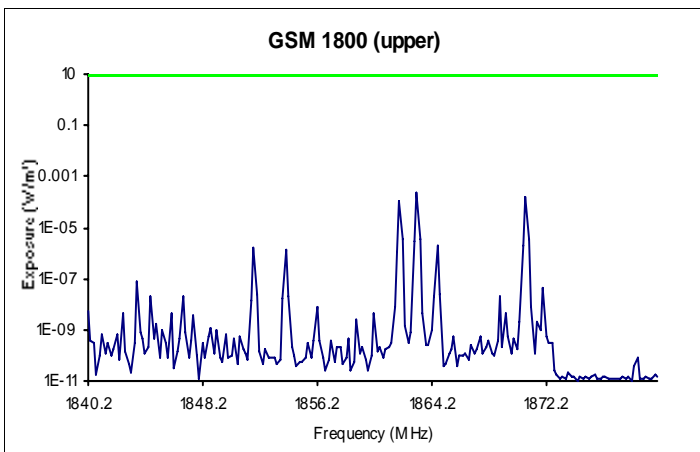
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	5.32E-04	4.71	1.13E-04
945.400	8.50E-05	4.73	1.80E-05
958.600	4.19E-05	4.79	8.75E-06
941.800	6.11E-06	4.71	1.30E-06
941.400	5.07E-06	4.71	1.08E-06
946.400	4.37E-06	4.73	9.23E-07
939.800	2.06E-06	4.70	4.38E-07
945.600	8.70E-07	4.73	1.84E-07
945.200	6.44E-07	4.73	1.36E-07
958.800	4.01E-07	4.79	8.36E-08
Band Exposure Quotient:			1.44E-04



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.800	1.20E-04	9.04	1.33E-05
1,808.200	5.50E-05	9.04	6.08E-06
1,810.200	8.74E-06	9.05	9.66E-07
1,808.400	3.63E-06	9.04	4.02E-07
1,806.400	3.30E-06	9.03	3.66E-07
1,808.000	2.45E-06	9.04	2.72E-07
1,807.600	1.10E-06	9.04	1.21E-07
1,818.200	2.50E-07	9.09	2.75E-08
1,826.200	1.97E-07	9.13	2.15E-08
1,809.600	1.91E-07	9.05	2.11E-08
Band Exposure Quotient:			2.16E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,863.200	2.52E-04	9.32	2.71E-05
1,870.800	1.47E-04	9.35	1.57E-05
1,862.000	1.12E-04	9.31	1.21E-05
1,862.200	3.55E-06	9.31	3.82E-07
1,871.000	3.53E-06	9.36	3.77E-07
1,863.400	3.40E-06	9.32	3.65E-07
1,863.000	2.70E-06	9.31	2.90E-07
1,864.600	1.96E-06	9.32	2.10E-07
1,870.600	1.89E-06	9.35	2.02E-07
1,851.800	1.67E-06	9.26	1.80E-07
Band Exposure Quotient:			5.71E-05

Total number of measurements 572

Total Band Exposure Quotient: 2.23E-04

Site: HOLLAND HOUSE SCHOOL

Location: FORM 2

NGR: TQ 1959 9287 **Taken from GPS**

Start Time: 29 September 2005 12:33:09

Officer: BW

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

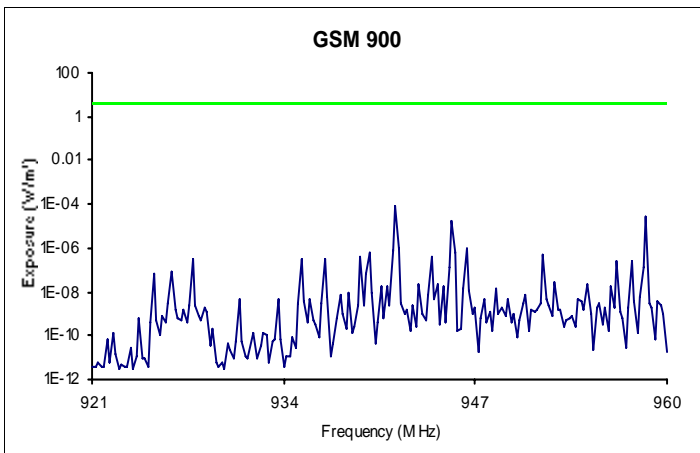
Serial Number: 837.752/028

Antenna:

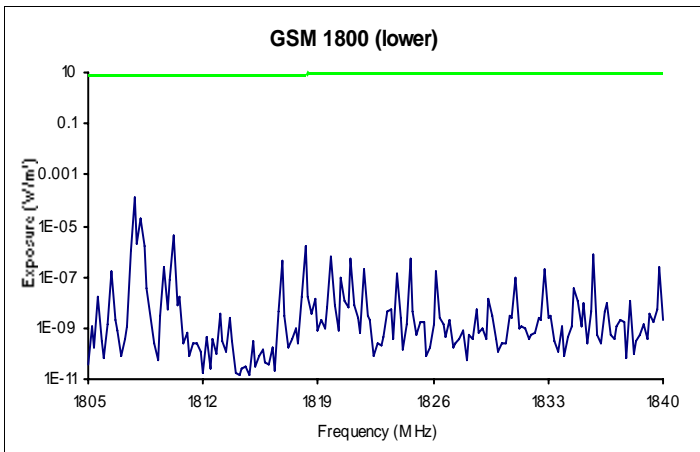
Manufacturer: Rohde & Schwarz

Model: HE200

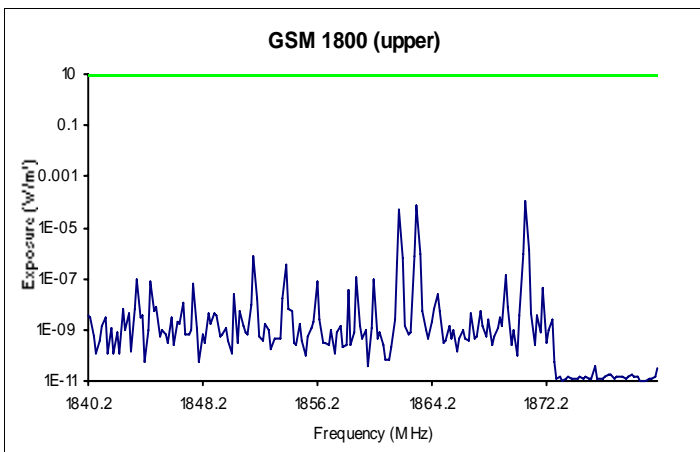
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	8.05E-05	4.71	1.71E-05
958.600	2.59E-05	4.79	5.40E-06
945.400	1.62E-05	4.73	3.43E-06
946.400	1.05E-06	4.73	2.21E-07
941.800	9.46E-07	4.71	2.01E-07
941.400	7.86E-07	4.71	1.67E-07
945.600	6.91E-07	4.73	1.46E-07
939.800	6.66E-07	4.70	1.42E-07
951.600	5.08E-07	4.76	1.07E-07
939.200	3.92E-07	4.70	8.35E-08
Band Exposure Quotient:			2.76E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.800	1.20E-04	9.04	1.33E-05
1,808.200	2.09E-05	9.04	2.31E-06
1,810.200	4.48E-06	9.05	4.95E-07
1,808.000	1.91E-06	9.04	2.11E-07
1,808.400	1.51E-06	9.04	1.68E-07
1,818.200	1.51E-06	9.09	1.66E-07
1,807.600	1.02E-06	9.04	1.13E-07
1,835.800	7.43E-07	9.18	8.09E-08
1,819.800	6.44E-07	9.10	7.08E-08
1,821.000	5.62E-07	9.11	6.17E-08
Band Exposure Quotient:			1.73E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.800	1.02E-04	9.35	1.09E-05
1,863.200	7.44E-05	9.32	7.98E-06
1,862.000	5.13E-05	9.31	5.52E-06
1,871.000	1.44E-06	9.36	1.54E-07
1,863.400	1.00E-06	9.32	1.08E-07
1,870.600	8.85E-07	9.35	9.46E-08
1,851.800	7.29E-07	9.26	7.88E-08
1,863.000	7.10E-07	9.31	7.62E-08
1,862.200	6.18E-07	9.31	6.63E-08
1,861.800	3.98E-07	9.31	4.28E-08
Band Exposure Quotient:			2.51E-05

Total number of measurements 572

Total Band Exposure Quotient: **7.00E-05**

Site: HOLLAND HOUSE SCHOOL

Location: STAFF ROOM

NGR: TQ 1957 9288 **Taken from GPS**

Start Time: 29 September 2005 12:48:51

Officer: BW

Receiver:

Manufacturer: ROHDE&SCHWARZ

Model: EB200

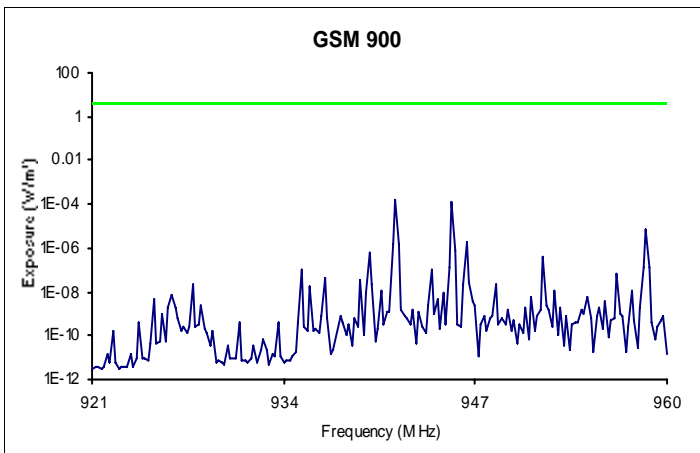
Serial Number: 837.752/028

Antenna:

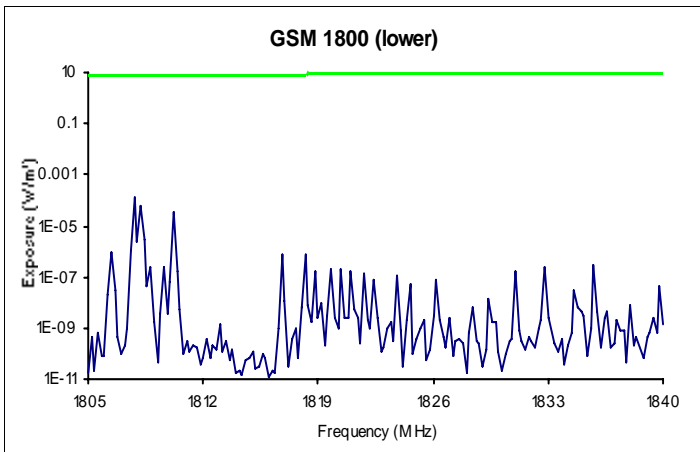
Manufacturer: Rohde & Schwarz

Model: HE200

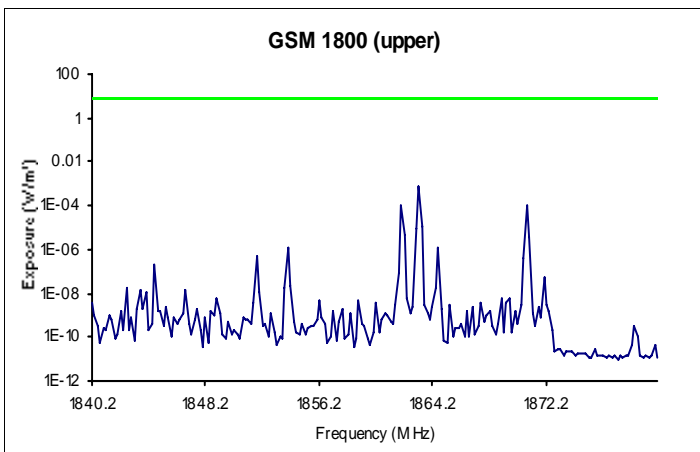
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
941.600	1.46E-04	4.71	3.11E-05
945.400	1.26E-04	4.73	2.66E-05
958.600	7.12E-06	4.79	1.49E-06
946.400	2.09E-06	4.73	4.42E-07
941.400	1.50E-06	4.71	3.18E-07
941.800	1.46E-06	4.71	3.11E-07
945.600	7.76E-07	4.73	1.64E-07
939.800	6.37E-07	4.70	1.35E-07
951.600	3.76E-07	4.76	7.91E-08
945.200	1.38E-07	4.73	2.92E-08
Band Exposure Quotient:			6.09E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.800	1.38E-04	9.04	1.53E-05
1,808.200	6.17E-05	9.04	6.82E-06
1,810.200	3.64E-05	9.05	4.03E-06
1,808.400	2.89E-06	9.04	3.19E-07
1,808.000	2.51E-06	9.04	2.78E-07
1,807.600	1.20E-06	9.04	1.33E-07
1,806.400	9.09E-07	9.03	1.01E-07
1,816.800	7.70E-07	9.08	8.48E-08
1,818.200	7.04E-07	9.09	7.75E-08
1,835.800	2.70E-07	9.18	2.94E-08
Band Exposure Quotient:			2.74E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,863.200	7.44E-04	9.32	7.98E-05
1,862.000	1.10E-04	9.31	1.18E-05
1,870.800	1.09E-04	9.35	1.16E-05
1,863.400	1.03E-05	9.32	1.10E-06
1,863.000	8.54E-06	9.31	9.16E-07
1,862.200	4.91E-06	9.31	5.27E-07
1,871.000	3.53E-06	9.36	3.77E-07
1,854.000	1.24E-06	9.27	1.34E-07
1,864.600	1.21E-06	9.32	1.30E-07
1,851.800	5.04E-07	9.26	5.45E-08
Band Exposure Quotient:			1.07E-04

Total number of measurements 572

Total Band Exposure Quotient: 1.95E-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 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(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