

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



**Mobile Phone  
Base-Station Audit**

**Audit Site: Cleaver Square  
London  
SE114DW**

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

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## 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 Cleaver Square, Kennington, London SE11 4DW on the 12<sup>th</sup> May 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	* 2G Band Exposure	3G Band Exposure	Total Band Exposure	Relationship to ICNIRP Limit
Outside No 58 Cleaver Square	5.61E-05	1.18E-06	5.73E-05	1/17452
Outside No 18 Cleaver Square	2.95E-05	3.05E-07	2.98E-05	1/33557
Outside No 8 Cleaver Square	2.81E-05	1.27E-06	2.94E-05	1/34014
Centre of Cleaver Square	1.21E-05	2.16E-06	1.43E-05	1/69930
Outside No 43 Cleaver Square	1.25E-05	8.58E-07	1.34E-05	1/74627
Outside No 1 Cleaver Square	1.04E-05	8.58E-07	1.13E-05	1/88496

\* Annex to this report

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.

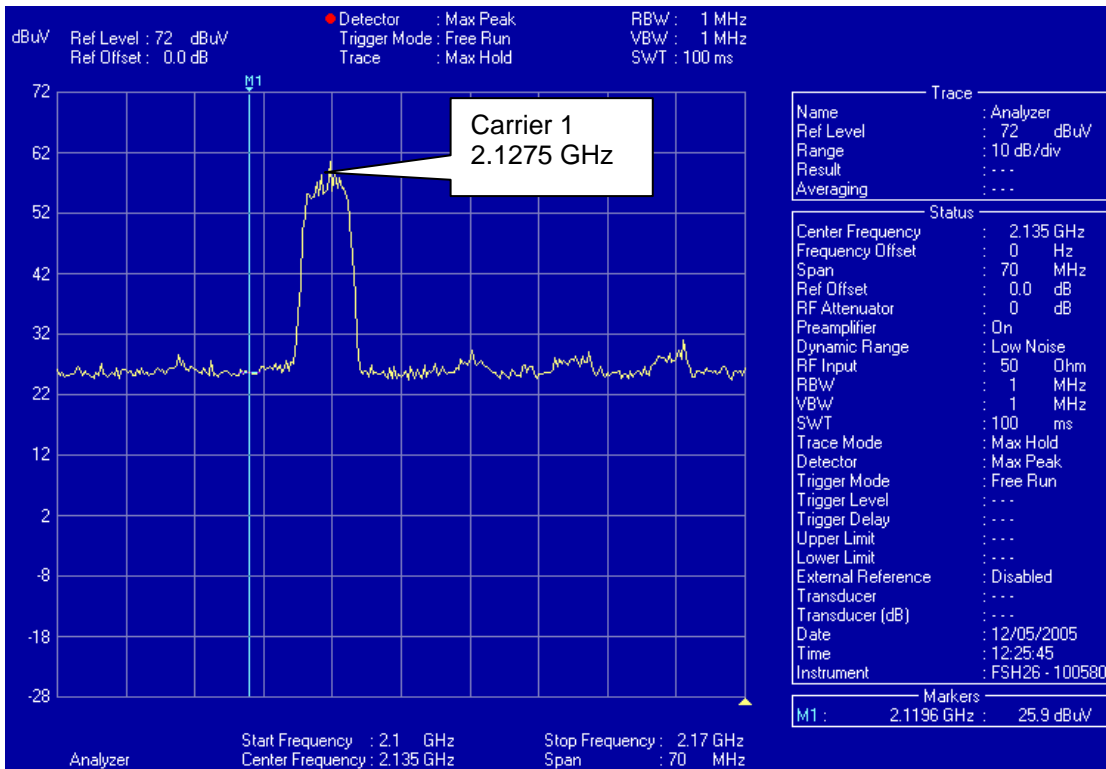


Figure 1

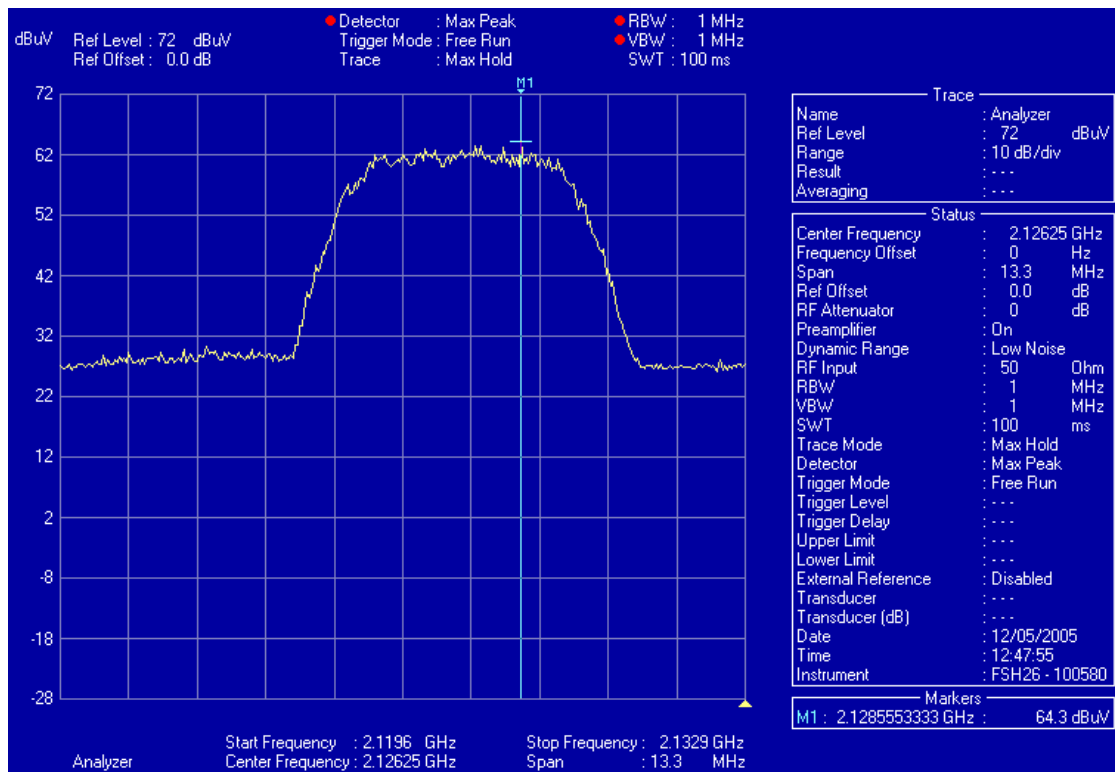
Figure 1 shows that one transmission was active at this site. At each measurement location the measuring antenna was then set up on a tripod 1.5m above ground level on the pavement in front of each house. In this position and the carrier's field strength was recorded. Site and vehicle parking restrictions did not allow mast mounted measurements to be conducted.

For each measurement location the 3G exposure quotient was then calculated. This in turn was added to the 2G exposure quotient before calculating the Total Exposure Quotient for each survey site.

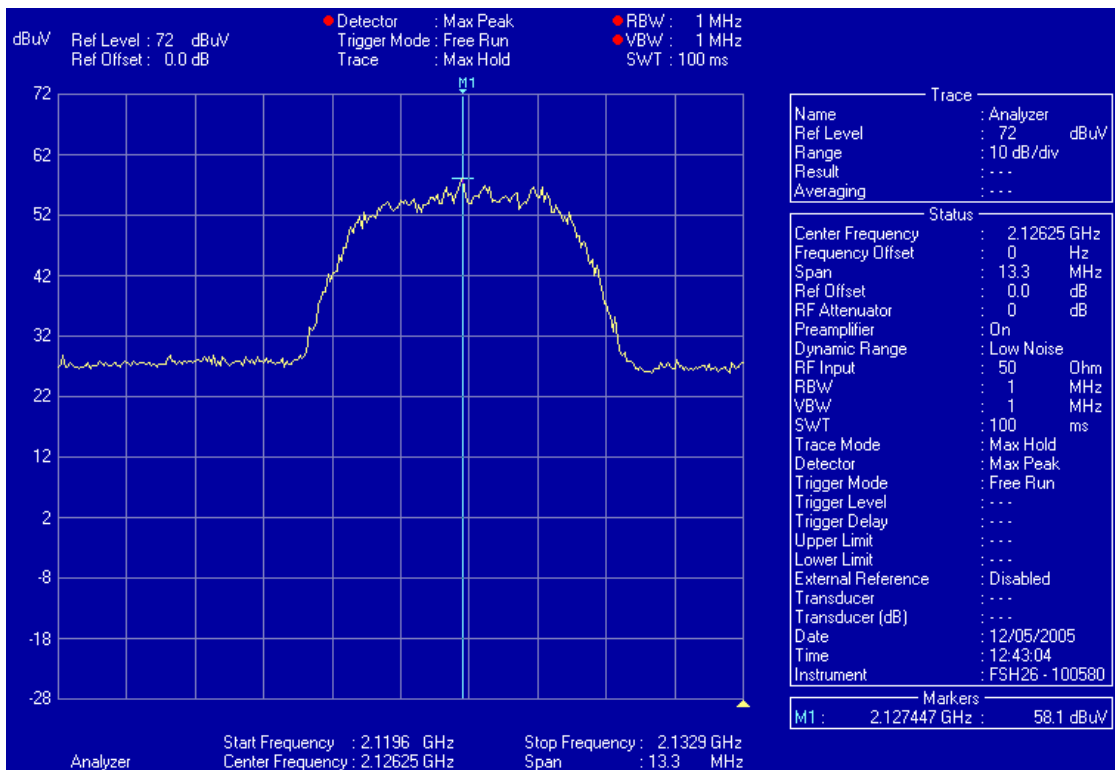
All the 3G measurement data is given on page 5, while the 2G data is contained in the annex to this report.

Equipment: Rohde & Schwarz FSH6 Spectrum Analyser serial number: 100580 CEMS number 200103  
 EMCO DRG 3115 horn Antenna 2153 200005  
 Garmin GPS75 receiver 37524369 200011  
 Reynolds 12 metre cable type 219-0088 0201 067

	Location	Frequency MHz	Fieldstrength dBuV/m	Fieldstrength uV/m	Fieldstrength V/m	Power W/m <sup>2</sup>	Power W/m <sup>2</sup>	ICNIRP W/m <sup>2</sup>	Exposure Quotient	Exposure Quotient	3G total	2G total	TOTAL Exp. Quot.
1	Outside No 8 Cleaver Square TQ 3138 7822	2127.5	96.8	69,183.1	0.069183	0.0000126957	1.27E-05	10	0.000001269570	1.26957E-06	1.27E-06	2.81E-05	2.94E-05
2	Outside No 18 Cleaver Square TQ 3142 7821	2127.5	90.6	33,884.4	0.033884	0.0000030454	3.045E-06	10	0.000000304540	3.0454E-07	3.05E-07	2.95E-05	2.98E-05
3	Centre of Square TQ 3141 7824	2127.5	99.1	90,157.1	0.090157	0.0000215604	2.156E-05	10	0.000002156040	2.15604E-06	2.16E-06	1.21E-05	1.43E-05
4	Outside No 43 Cleaver Square TQ 3140 7827	2127.5	95.1	56,885.3	0.056885	0.0000085833	8.583E-06	10	0.000000858330	8.5833E-07	8.58E-07	1.25E-05	1.34E-05
5	Outside No 58 Cleaver Square TQ 3137 7826	2127.5	96.5	66,834.4	0.066834	0.0000118482	1.185E-05	10	0.000001184820	1.18482E-06	1.18E-06	5.61E-05	5.73E-05
6	Outside No 1 Cleaver Square TQ 3136 7825	2127.5	95.1	56,885.3	0.056885	0.0000085833	8.583E-06	10	0.000000858330	8.5833E-07	8.58E-07	1.04E-05	1.13E-05



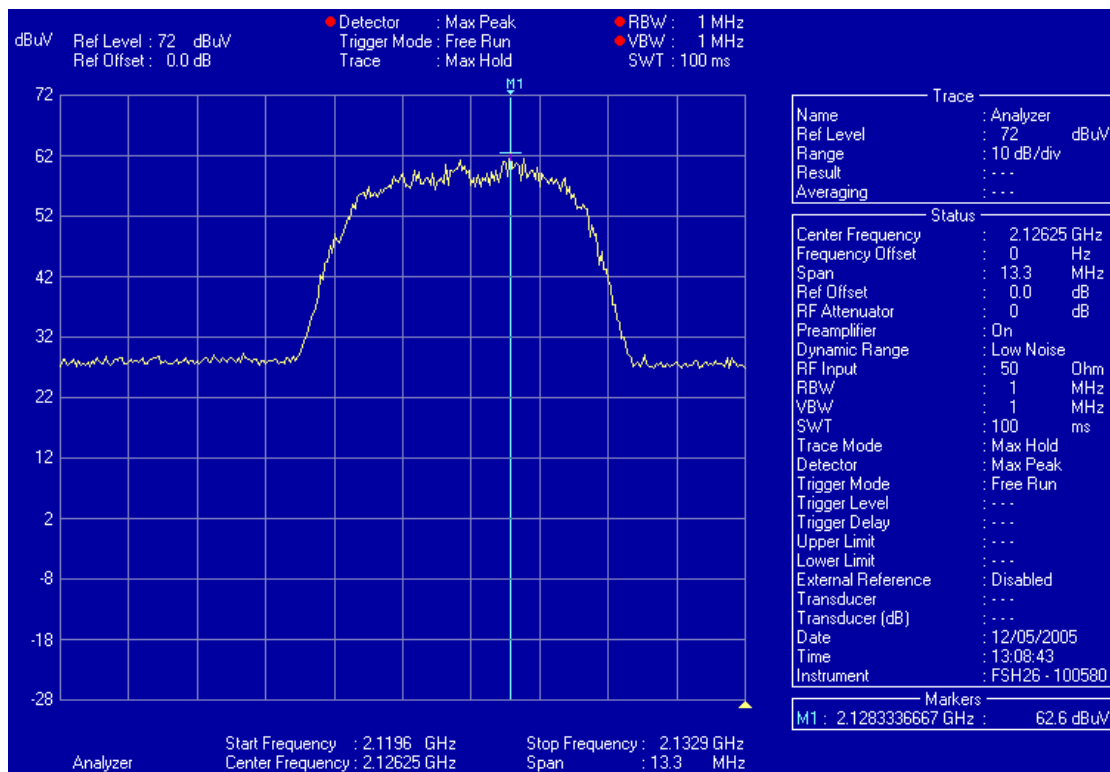
Location 1: Outside No 8 Cleaver Square



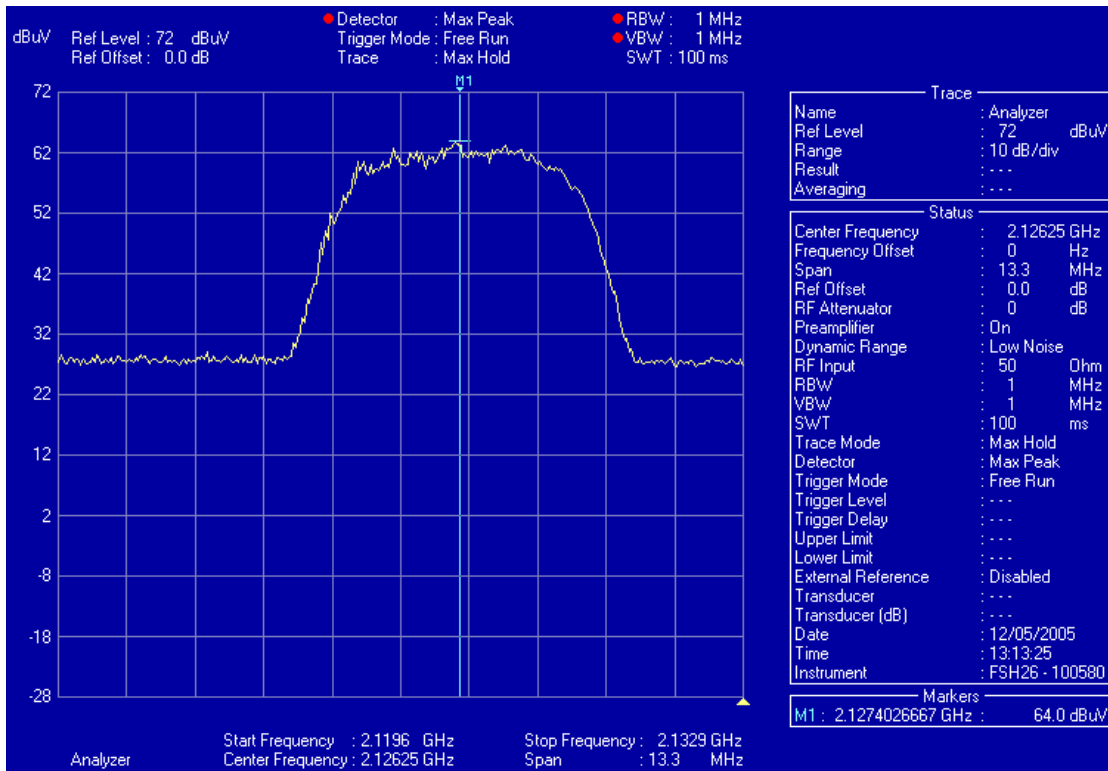
Location 2: Outside No 18 Cleaver Square



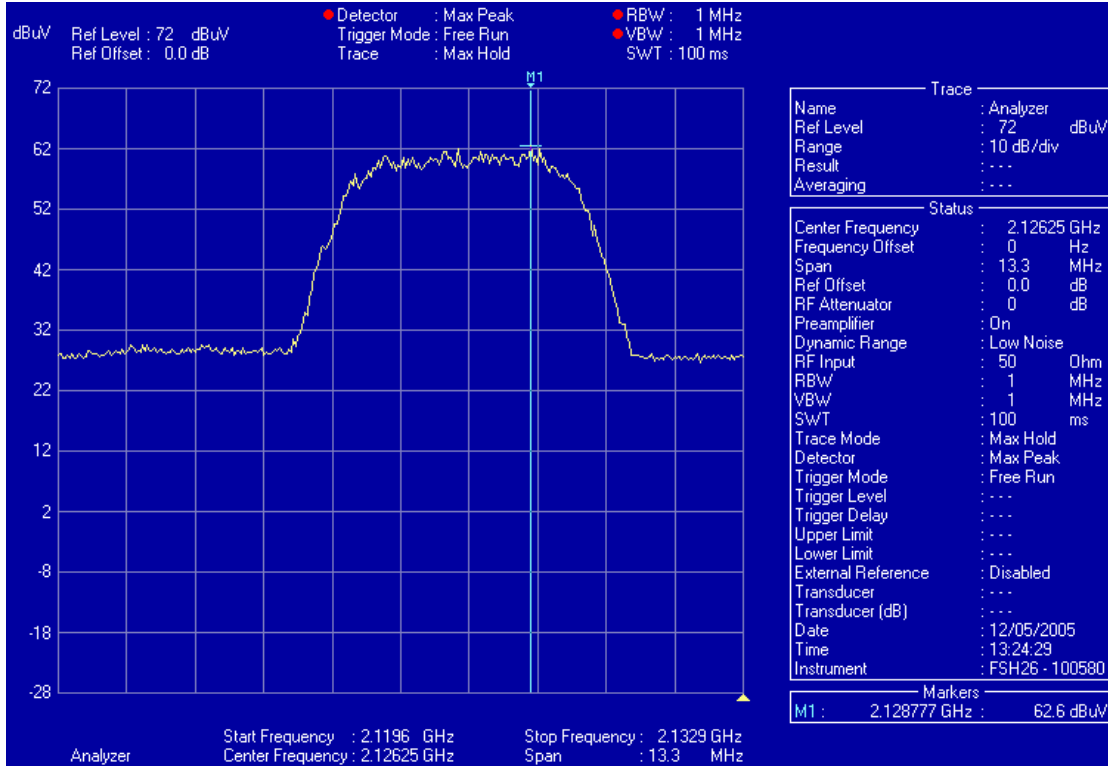
Location 3: Centre of Square



Location 4: Outside No 43 Cleaver Square



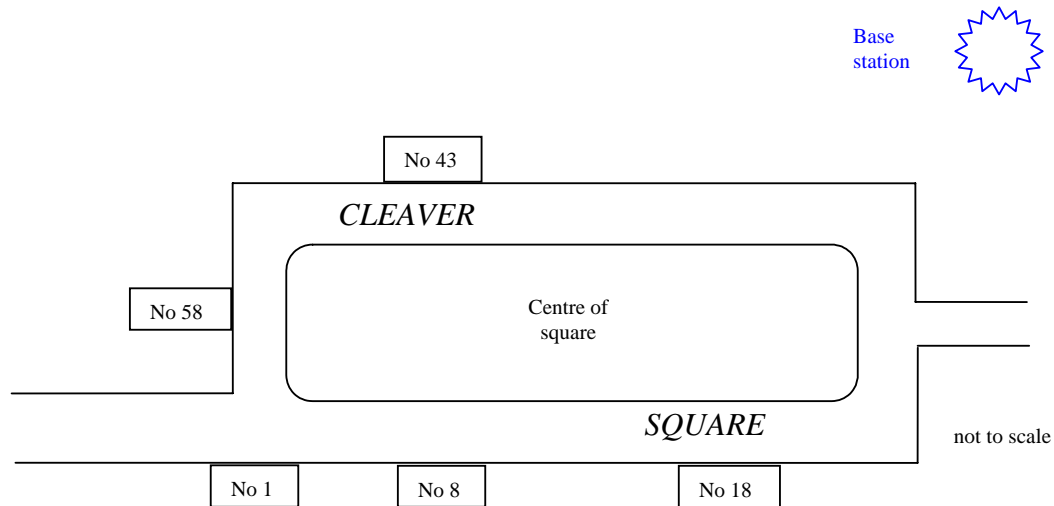
Location 5: Outside No 58 Cleaver Square



Location 6: Outside No 1 Cleaver Square



Measurement locations:



Outside each house indicated above, the tripod mounted measurements were completed on the pavement. All parking spaces around the square and outside each house were occupied.

## **Annex**

### **2G Mobile Phone Base-Station Audit**

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

**Audit site: CLEAVER SQUARE  
KENNINGTON  
LONDON  
SE11  
SE11 4DW**

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](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 CLEAVER SQUARE on 12 May 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
OUTSIDE NO.58	5.61E-05	1/17822
OUTSIDE NO.18	2.95E-05	1/33852
OUTSIDE NO.8	2.81E-05	1/35601
OUTSIDE NO.43	1.25E-05	1/80108
CENTRE OF SQUARE	1.21E-05	1/82535
OUTSIDE NO.1	1.04E-05	1/96468

Issued on behalf of Ofcom.

Issued by:

Received by:

BW  
Technical Investigation Officer

**Site:** 8 CLEAVER SQUARE

**Location:** OUTSIDE NO.8

**NGR:** TQ 3138 7822 **Taken from GPS**

**Start Time:** 12 May 2005 12:38:22

**Officer:** BW

**Receiver:**

Manufacturer: ROHDE&SCHWARZ

Model: EB200

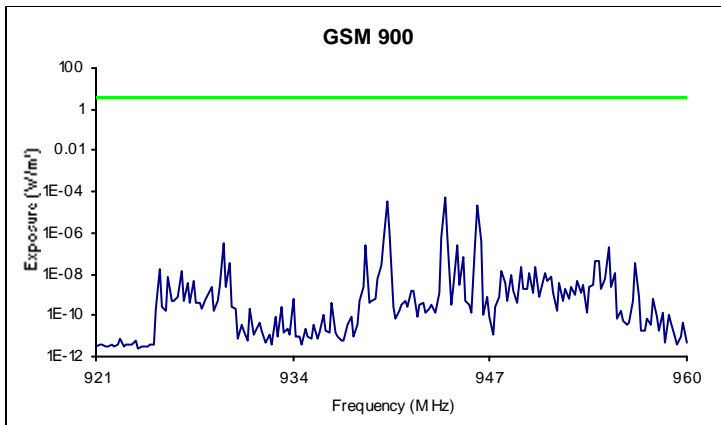
Serial Number: 837.752/028

**Antenna:**

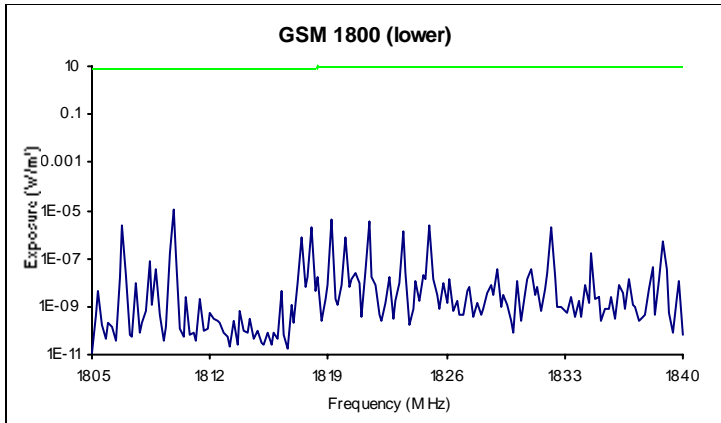
Manufacturer: Rohde & Schwarz

Model: HE200

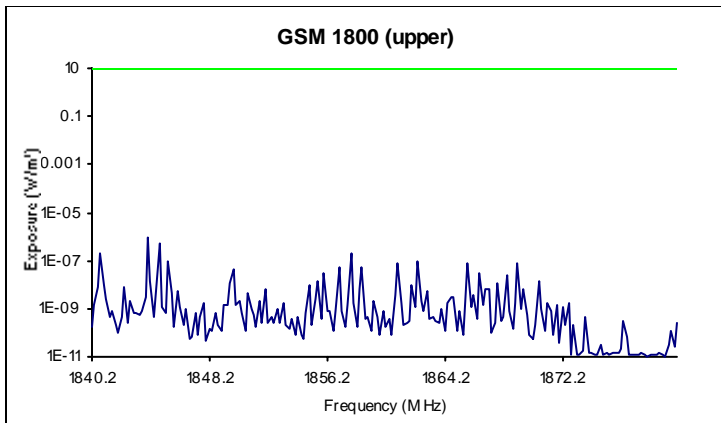
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
944.000	5.11E-05	4.72	1.08E-05
940.200	3.75E-05	4.70	7.98E-06
946.200	2.04E-05	4.73	4.32E-06
940.400	1.16E-06	4.70	2.47E-07
944.200	6.43E-07	4.72	1.36E-07
943.800	5.59E-07	4.72	1.19E-07
946.400	4.27E-07	4.73	9.02E-08
946.000	4.07E-07	4.73	8.61E-08
940.000	4.02E-07	4.70	8.55E-08
929.400	2.91E-07	4.65	6.26E-08
<b>Band Exposure Quotient:</b>			<b>2.42E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.800	1.10E-05	9.05	1.22E-06
1,819.200	4.45E-06	9.10	4.89E-07
1,821.400	3.80E-06	9.11	4.18E-07
1,825.000	2.59E-06	9.13	2.83E-07
1,806.800	2.18E-06	9.03	2.42E-07
1,818.000	2.03E-06	9.09	2.23E-07
1,832.200	1.94E-06	9.16	2.12E-07
1,823.400	1.23E-06	9.12	1.35E-07
1,820.000	7.40E-07	9.10	8.13E-08
1,817.400	7.20E-07	9.09	7.92E-08
<b>Band Exposure Quotient:</b>			<b>3.58E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,844.000	9.71E-07	9.22	1.05E-07
1,844.800	5.59E-07	9.22	6.06E-08
1,857.800	2.03E-07	9.29	2.18E-08
1,840.800	1.93E-07	9.20	2.09E-08
1,862.400	9.57E-08	9.31	1.03E-08
1,845.400	8.67E-08	9.23	9.40E-09
1,865.800	8.38E-08	9.33	8.98E-09
1,861.000	8.31E-08	9.30	8.93E-09
1,869.200	7.69E-08	9.35	8.23E-09
1,857.000	5.71E-08	9.29	6.15E-09
<b>Band Exposure Quotient:</b>			<b>3.08E-07</b>

Total number of measurements 572

**Total Band Exposure Quotient:**

**2.81E-05**

**Site:** 8 CLEAVER SQUARE

**Location:** OUTSIDE NO.18

**NGR:** TQ 3142 7821 **Taken from GPS**

**Start Time:** 12 May 2005 12:53:53

**Officer:** BW

**Receiver:**

Manufacturer: ROHDE&SCHWARZ

Model: EB200

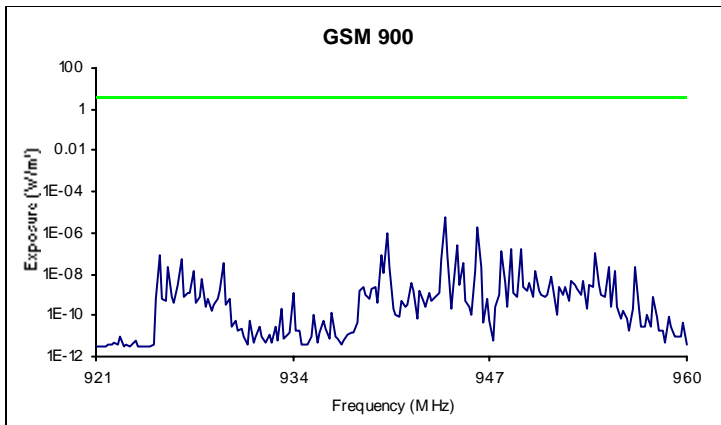
Serial Number: 837.752/028

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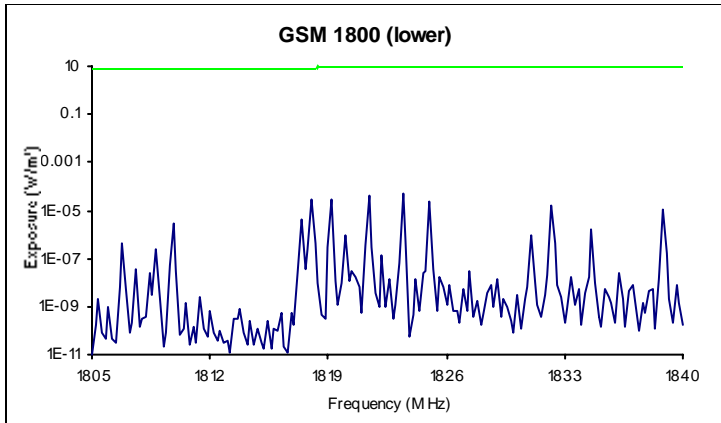
Manufacturer: Rohde & Schwarz

Model: HE200

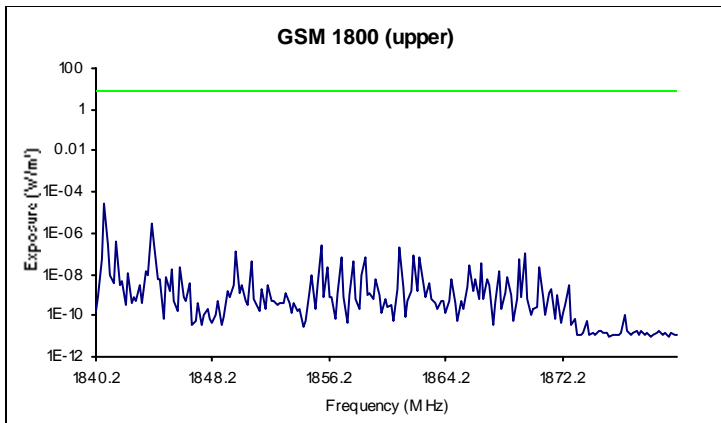
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
944.000	6.00E-06	4.72	1.27E-06
946.200	1.74E-06	4.73	3.67E-07
940.200	1.06E-06	4.70	2.25E-07
944.800	2.81E-07	4.72	5.95E-08
948.400	1.79E-07	4.74	3.77E-08
949.000	1.63E-07	4.75	3.44E-08
947.800	1.39E-07	4.74	2.92E-08
954.000	1.09E-07	4.77	2.29E-08
939.800	8.59E-08	4.70	1.83E-08
925.200	7.93E-08	4.63	1.71E-08
<b>Band Exposure Quotient:</b>			<b>2.20E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,823.400	5.39E-05	9.12	5.91E-06
1,821.400	4.07E-05	9.11	4.47E-06
1,819.200	2.74E-05	9.10	3.02E-06
1,818.000	2.68E-05	9.09	2.94E-06
1,825.000	2.41E-05	9.13	2.65E-06
1,832.200	1.69E-05	9.16	1.85E-06
1,838.800	1.16E-05	9.19	1.26E-06
1,817.400	4.05E-06	9.09	4.45E-07
1,809.800	2.64E-06	9.05	2.92E-07
1,834.600	1.78E-06	9.17	1.94E-07
<b>Band Exposure Quotient:</b>			<b>2.37E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,840.800	2.78E-05	9.20	3.02E-06
1,844.000	2.93E-06	9.22	3.18E-07
1,841.600	4.12E-07	9.21	4.48E-08
1,844.200	3.00E-07	9.22	3.25E-08
1,841.000	2.85E-07	9.21	3.10E-08
1,855.600	2.43E-07	9.28	2.62E-08
1,861.000	2.14E-07	9.30	2.30E-08
1,849.800	1.23E-07	9.25	1.33E-08
1,869.600	1.11E-07	9.35	1.19E-08
1,862.000	7.95E-08	9.31	8.54E-09
<b>Band Exposure Quotient:</b>			<b>3.62E-06</b>

Total number of measurements 572

**Total Band Exposure Quotient:**

**2.95E-05**

**Site:** 8 CLEAVER SQUARE  
**Location:** CENTRE OF SQUARE

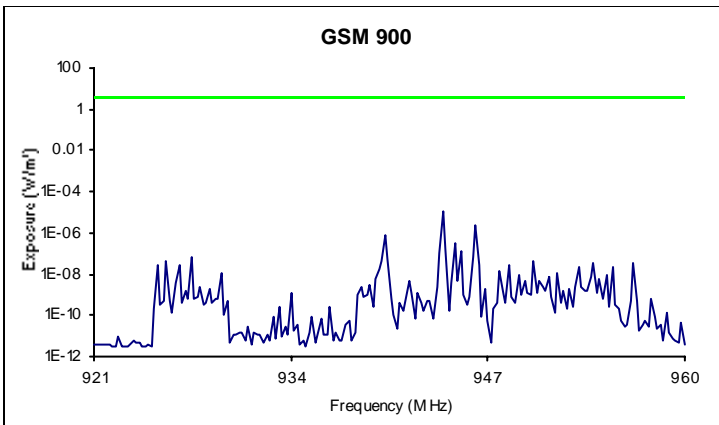
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**Start Time:** 12 May 2005 13:07:26

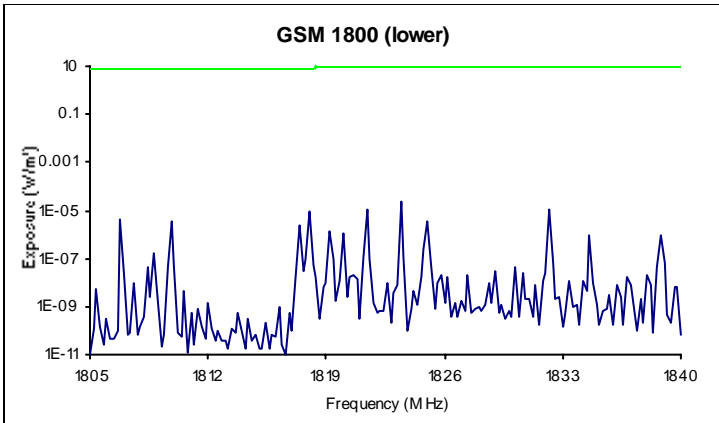
**Officer:** BW

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

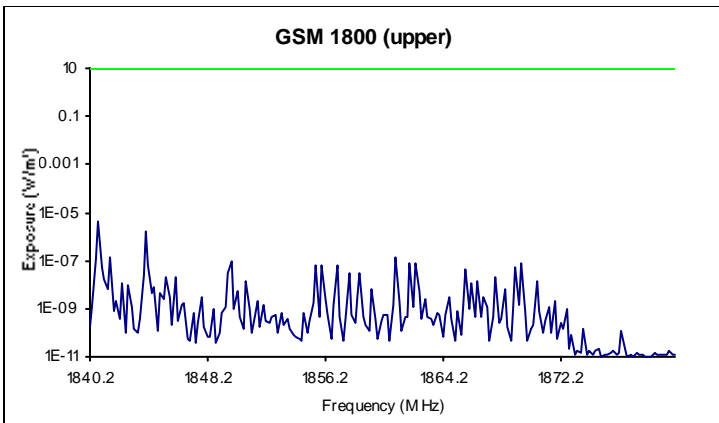
**Antenna:**  
Manufacturer: Rohde & Schwarz  
Model: HE200  
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
944.000	1.22E-05	4.72	2.59E-06
946.200	2.29E-06	4.73	4.84E-07
940.200	8.40E-07	4.70	1.79E-07
944.800	3.01E-07	4.72	6.38E-08
944.200	1.54E-07	4.72	3.27E-08
945.200	1.29E-07	4.73	2.72E-08
943.800	1.04E-07	4.72	2.21E-08
946.000	6.61E-08	4.73	1.40E-08
927.400	6.19E-08	4.64	1.33E-08
940.400	5.95E-08	4.70	1.27E-08
<b>Band Exposure Quotient:</b>			<b>3.56E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,823.400	2.15E-05	9.12	2.35E-06
1,832.200	1.07E-05	9.16	1.16E-06
1,821.400	1.05E-05	9.11	1.15E-06
1,818.000	8.27E-06	9.09	9.10E-07
1,806.800	4.56E-06	9.03	5.05E-07
1,809.800	3.64E-06	9.05	4.02E-07
1,825.000	3.26E-06	9.13	3.57E-07
1,817.400	2.33E-06	9.09	2.56E-07
1,819.200	1.28E-06	9.10	1.41E-07
1,820.000	1.02E-06	9.10	1.12E-07
<b>Band Exposure Quotient:</b>			<b>7.77E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,840.800	4.02E-06	9.20	4.37E-07
1,844.000	1.69E-06	9.22	1.83E-07
1,841.600	1.37E-07	9.21	1.48E-08
1,861.000	1.32E-07	9.30	1.42E-08
1,840.600	1.21E-07	9.20	1.32E-08
1,849.800	1.03E-07	9.25	1.11E-08
1,862.400	7.96E-08	9.31	8.55E-09
1,862.000	7.77E-08	9.31	8.35E-09
1,869.600	7.35E-08	9.35	7.86E-09
1,856.000	6.85E-08	9.28	7.39E-09
<b>Band Exposure Quotient:</b>			<b>7.84E-07</b>

**Site:** 8 CLEAVER SQUARE

**Location:** OUTSIDE NO.43

**NGR:** TQ 3140 7827 **Taken from GPS**

**Start Time:** 12 May 2005 13:22:02

**Officer:** BW

**Receiver:**

Manufacturer: ROHDE&SCHWARZ

Model: EB200

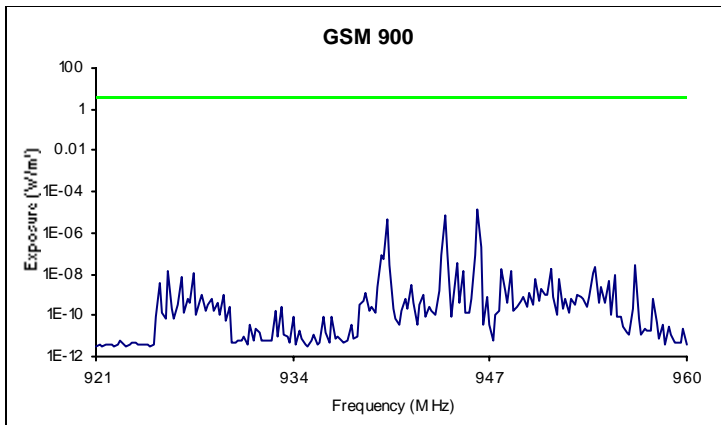
Serial Number: 837.752/028

**Antenna:**

Manufacturer: Rohde & Schwarz

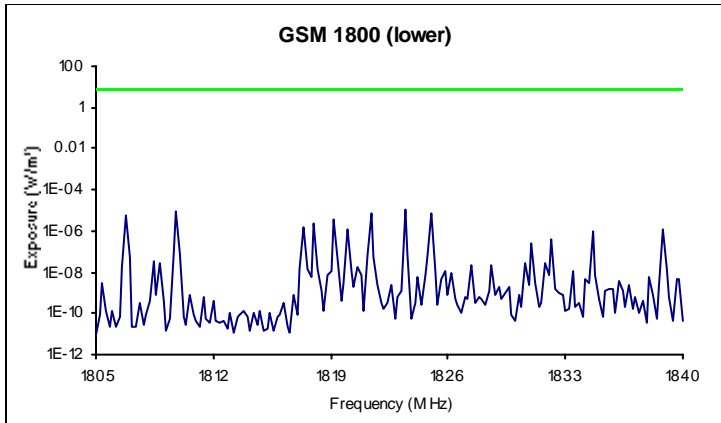
Model: HE200

Serial Number: 758745/019



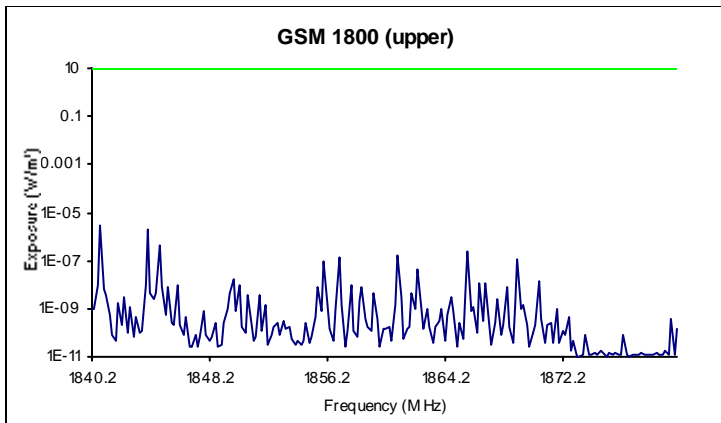
Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
946.200	1.55E-05	4.73	3.28E-06
944.000	7.21E-06	4.72	1.53E-06
940.200	4.72E-06	4.70	1.00E-06
946.400	1.95E-07	4.73	4.12E-08
944.200	9.51E-08	4.72	2.01E-08
943.800	8.87E-08	4.72	1.88E-08
939.800	8.20E-08	4.70	1.74E-08
946.000	7.94E-08	4.73	1.68E-08
940.000	5.55E-08	4.70	1.18E-08
944.800	3.15E-08	4.72	6.68E-09

**Band Exposure Quotient:** 5.99E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,823.400	1.03E-05	9.12	1.13E-06
1,809.800	8.34E-06	9.05	9.22E-07
1,821.400	7.59E-06	9.11	8.33E-07
1,825.000	7.46E-06	9.13	8.18E-07
1,806.800	6.01E-06	9.03	6.66E-07
1,819.200	3.62E-06	9.10	3.98E-07
1,818.000	2.56E-06	9.09	2.81E-07
1,817.400	1.65E-06	9.09	1.81E-07
1,838.800	1.27E-06	9.19	1.38E-07
1,820.000	1.23E-06	9.10	1.35E-07

**Band Exposure Quotient:** 5.78E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,840.800	3.05E-06	9.20	3.32E-07
1,844.000	2.03E-06	9.22	2.20E-07
1,844.800	4.65E-07	9.22	5.04E-08
1,865.800	2.42E-07	9.33	2.59E-08
1,861.000	1.58E-07	9.30	1.70E-08
1,857.000	1.25E-07	9.29	1.35E-08
1,869.200	1.16E-07	9.35	1.25E-08
1,856.000	9.46E-08	9.28	1.02E-08
1,862.400	4.48E-08	9.31	4.81E-09
1,849.800	1.59E-08	9.25	1.72E-09

**Band Exposure Quotient:** 7.12E-07

Total number of measurements 572

**Total Band Exposure Quotient:** 1.25E-05



**Site:** 8 CLEAVER SQUARE

**Location:** OUTSIDE NO.58

**NGR:** TQ 3137 7826 **Taken from GPS**

**Start Time:** 12 May 2005 13:36:08

**Officer:** BW

**Receiver:**

Manufacturer: ROHDE&SCHWARZ

Model: EB200

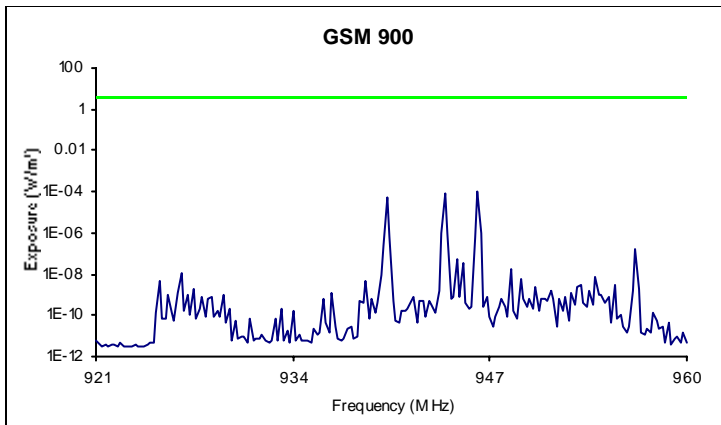
Serial Number: 837.752/028

**Antenna:**

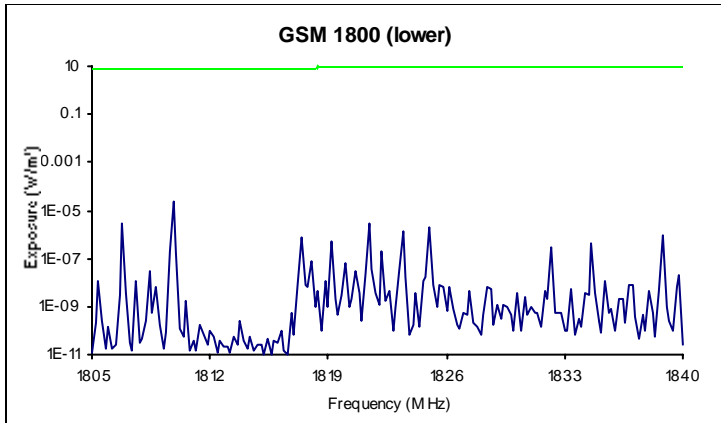
Manufacturer: Rohde & Schwarz

Model: HE200

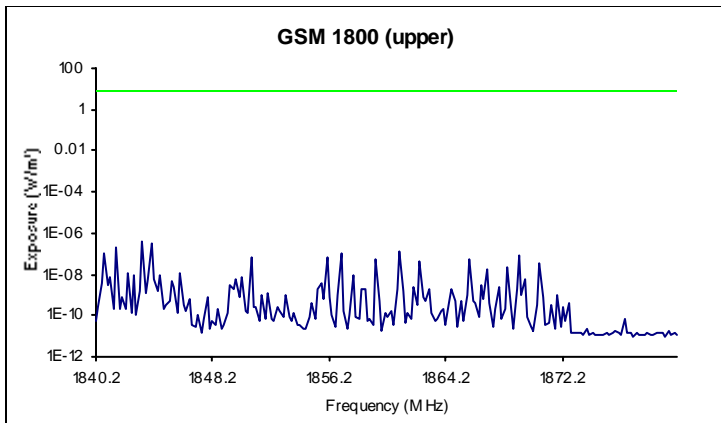
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
946.200	1.02E-04	4.73	2.16E-05
944.000	8.87E-05	4.72	1.88E-05
940.200	4.95E-05	4.70	1.05E-05
946.400	9.78E-07	4.73	2.07E-07
944.200	9.29E-07	4.72	1.97E-07
943.800	8.87E-07	4.72	1.88E-07
940.400	5.95E-07	4.70	1.27E-07
946.000	5.89E-07	4.73	1.24E-07
940.000	2.72E-07	4.70	5.78E-08
956.600	1.55E-07	4.78	3.24E-08
<b>Band Exposure Quotient:</b>			<b>5.19E-05</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.800	2.25E-05	9.05	2.48E-06
1,821.400	3.02E-06	9.11	3.32E-07
1,806.800	2.95E-06	9.03	3.26E-07
1,825.000	2.01E-06	9.13	2.20E-07
1,823.400	1.45E-06	9.12	1.59E-07
1,838.800	9.62E-07	9.19	1.05E-07
1,817.400	8.07E-07	9.09	8.88E-08
1,819.200	4.77E-07	9.10	5.24E-08
1,834.600	4.07E-07	9.17	4.44E-08
1,832.200	2.87E-07	9.16	3.13E-08
<b>Band Exposure Quotient:</b>			<b>3.98E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,843.400	3.77E-07	9.22	4.09E-08
1,844.000	3.21E-07	9.22	3.49E-08
1,841.600	2.02E-07	9.21	2.19E-08
1,861.000	1.23E-07	9.30	1.32E-08
1,857.000	1.11E-07	9.29	1.20E-08
1,840.800	1.06E-07	9.20	1.15E-08
1,869.200	8.24E-08	9.35	8.82E-09
1,856.000	7.01E-08	9.28	7.56E-09
1,850.800	6.79E-08	9.25	7.34E-09
1,865.800	5.41E-08	9.33	5.80E-09
<b>Band Exposure Quotient:</b>			<b>2.00E-07</b>

**Site:** 8 CLEAVER SQUARE

**Location:** OUTSIDE NO.1

**NGR:** TQ 3136 7825 **Taken from GPS**

**Start Time:** 12 May 2005 13:50:30

**Officer:** BW

**Receiver:**

Manufacturer: ROHDE&SCHWARZ

Model: EB200

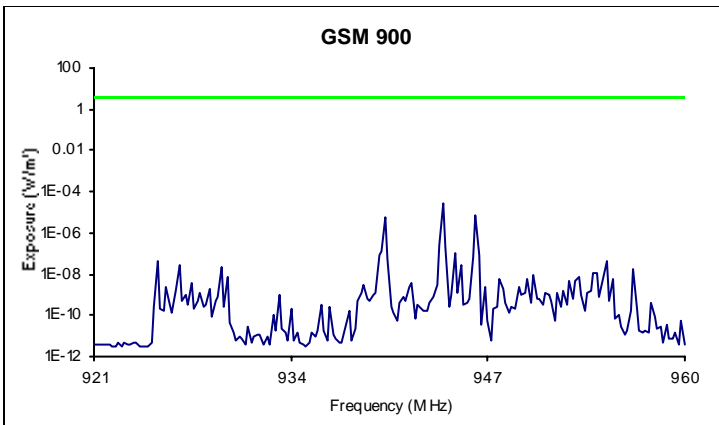
Serial Number: 837.752/028

**Antenna:**

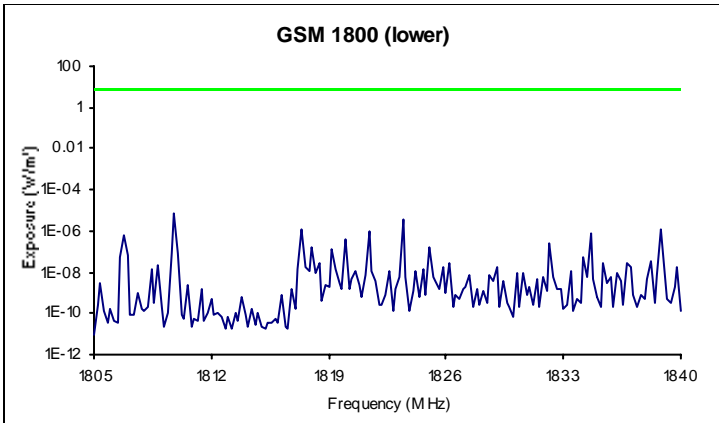
Manufacturer: Rohde & Schwarz

Model: HE200

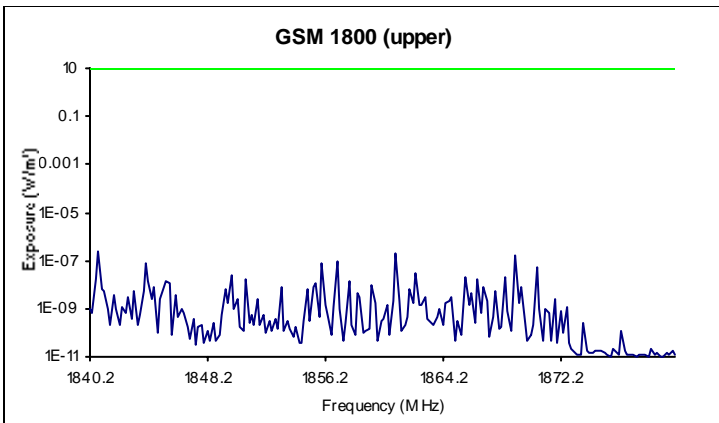
Serial Number: 758745/019



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
944.000	2.44E-05	4.72	5.18E-06
946.200	7.08E-06	4.73	1.50E-06
940.200	6.23E-06	4.70	1.32E-06
943.800	2.50E-07	4.72	5.30E-08
944.200	2.13E-07	4.72	4.51E-08
940.000	1.43E-07	4.70	3.03E-08
944.800	1.02E-07	4.72	2.16E-08
939.800	7.83E-08	4.70	1.67E-08
946.400	7.59E-08	4.73	1.60E-08
946.000	6.31E-08	4.73	1.33E-08
<b>Band Exposure Quotient:</b>			<b>8.27E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.800	7.27E-06	9.05	8.03E-07
1,823.400	3.40E-06	9.12	3.73E-07
1,838.800	1.33E-06	9.19	1.44E-07
1,817.400	1.31E-06	9.09	1.44E-07
1,821.400	1.00E-06	9.11	1.10E-07
1,834.600	7.41E-07	9.17	8.08E-08
1,806.800	6.15E-07	9.03	6.81E-08
1,820.000	3.62E-07	9.10	3.98E-08
1,832.200	2.62E-07	9.16	2.86E-08
1,818.000	1.65E-07	9.09	1.82E-08
<b>Band Exposure Quotient:</b>			<b>1.95E-06</b>



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,840.800	2.42E-07	9.20	2.63E-08
1,861.000	1.86E-07	9.30	2.00E-08
1,869.200	1.76E-07	9.35	1.88E-08
1,857.000	9.05E-08	9.29	9.75E-09
1,844.000	8.26E-08	9.22	8.96E-09
1,856.000	7.18E-08	9.28	7.73E-09
1,870.600	5.58E-08	9.35	5.97E-09
1,862.400	3.17E-08	9.31	3.40E-09
1,849.800	2.52E-08	9.25	2.72E-09
1,868.400	2.21E-08	9.34	2.37E-09
<b>Band Exposure Quotient:</b>			<b>1.43E-07</b>

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 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

<i>Frequency</i>	<i>ICNIRP limit</i>
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