

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



**Mobile Phone
Base-Station Audit**

Audit Site: Norgas House
Killingworth
Newcastle upon Tyne
NE12 6EH

Work Performed by		Distribution List	
James Loughlin Field Manager	3G measurements & Report	Lloyd Tailby	2
Mike Reynolds Field Officer	3G measurements & 2G Report	J Hunter	1
Jeff Hunter T.I. Officer	2G measurements	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 Norgas House on the 17th August 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
Norgas House Car Park	7.15E-05	2.73E-05	9.88E-05	1/10121
SCA Packaging Planet Place	5.87E-05	3.32E-05	9.19E-05	1/10881
Broomlee Road	3.25E-05	3.76E-05	7.01E-05	1/14265
52 Hallington Mews	2.98E-05	2.69E-05	5.67E-05	1/17637
35 Bolam Road	1.04E-05	1.35E-05	2.39E-05	1/41841
Northumbrian Way Bus Stop	2.54E-06	1.34E-06	3.88E-06	1/257732

The Washington 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.

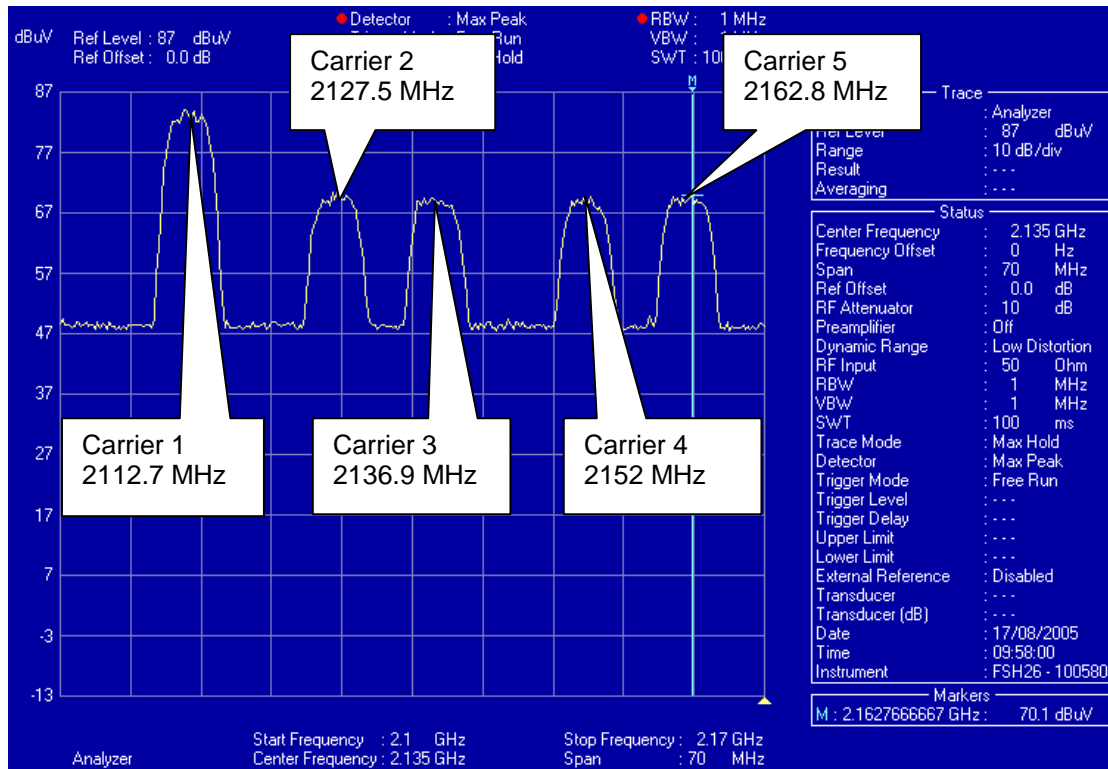


Figure 1

Figure 1 shows that five transmissions were active in the area. At each measurement location the antenna was set up on a tripod 1.5m above ground level on the pavement. In this position the field strength of each carrier was recorded.

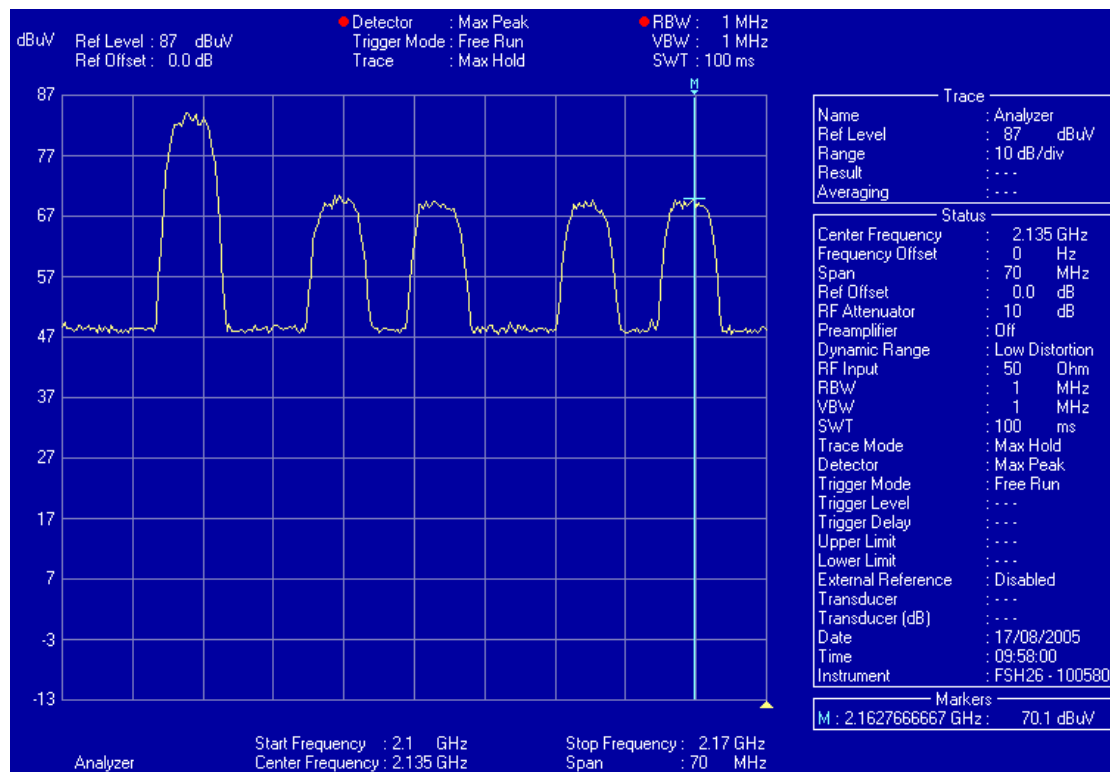
For each measurement location the 3G exposure quotient was calculated for the individual carriers and summed to provide the total exposure quotient. This in turn was added to the 2G exposure quotients before calculating the Total Exposure Quotient for each survey site.

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	ML2/002-196	-

Location 1: Norgas House Car Park

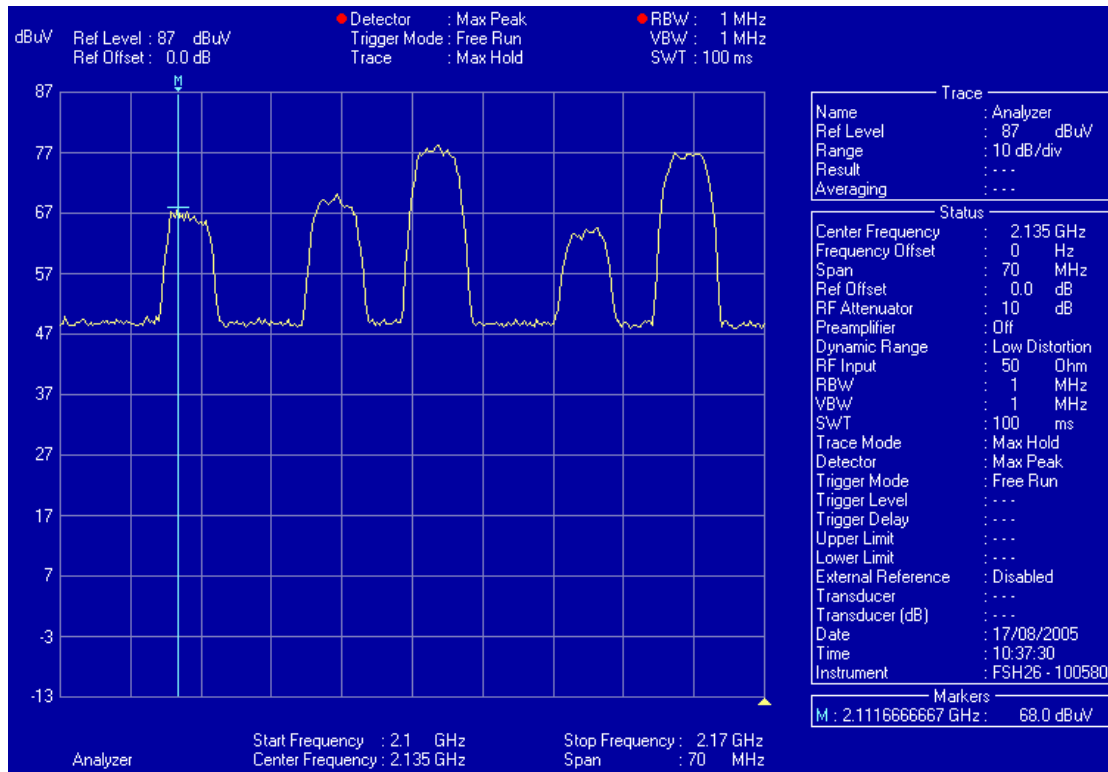
NGR: NZ 2711 7129



Channel	Frequency	Fieldstrength			Power		ICNIRP	3G	3G
	MHz	dBuV/m	uV/m	V/m	W/m ²	W/m ²		Exposure Quotient	Exposure Quotient
1	2112.7	113.7	484,172.4	0.484172	0.0006218104	0.0006218	10	0.000062181040	6.22E-05
2	2127.5	99.9	98,855.3	0.098855	0.0000259212	2.592E-05	10	0.000002592120	2.59E-06
3	2136.9	99	89,125.1	0.089125	0.0000210697	2.107E-05	10	0.000002106970	2.11E-06
4	2152	99.2	91,201.1	0.091201	0.0000220627	2.206E-05	10	0.000002206270	2.21E-06
5	2162.8	99.6	95,499.3	0.095499	0.0000241911	2.419E-05	10	0.000002419110	2.42E-06
TOTAL									7.15E-05

Location 2: Broomlee Road

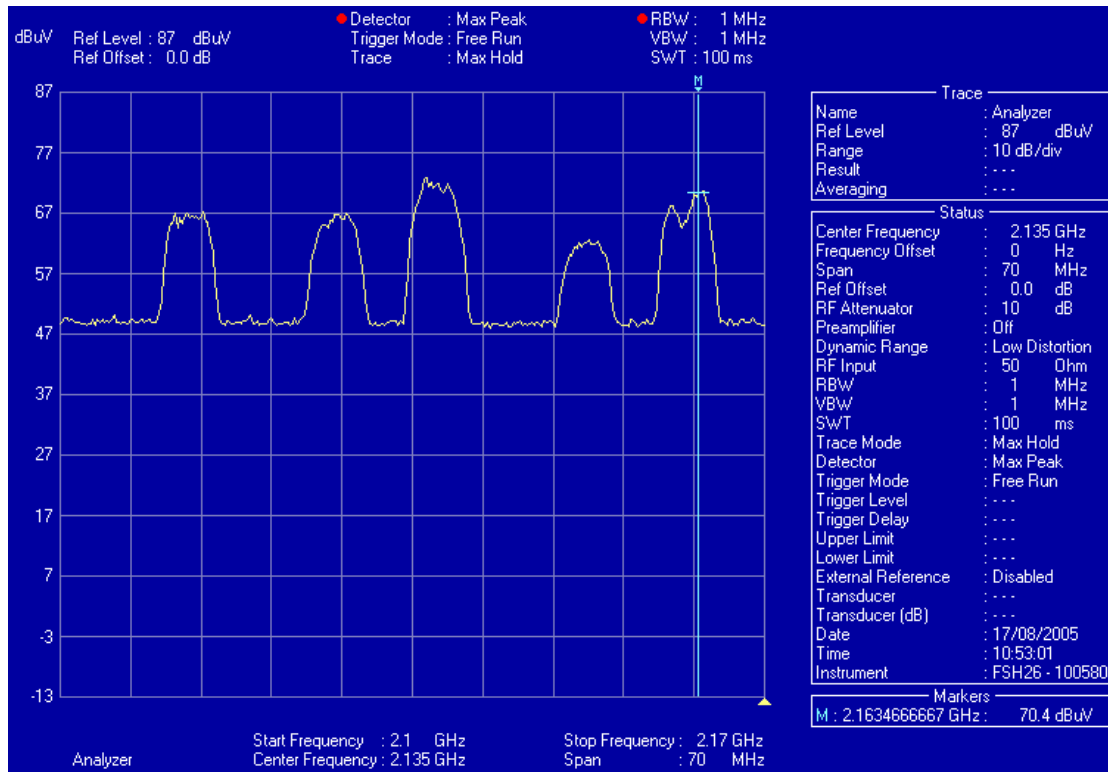
NGR: NZ 2744 7148



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	2112.7	97.5	74,989.4	0.074989	0.0000149160	1.492E-05	10	0.000001491600	1.49E-06
2	2127.5	99.8	97,723.7	0.097724	0.0000253315	2.533E-05	10	0.000002533150	2.53E-06
3	2136.9	107.7	242,661.0	0.242661	0.0001561919	0.0001562	10	0.000015619190	1.56E-05
4	2152	94.4	52,480.7	0.052481	0.0000073057	7.306E-06	10	0.000000730570	7.31E-07
5	2162.8	106.6	213,796.2	0.213796	0.0001212433	0.0001212	10	0.000012124330	1.21E-05
									TOTAL 3.25E-05

Location 3: 35 Bolam Road

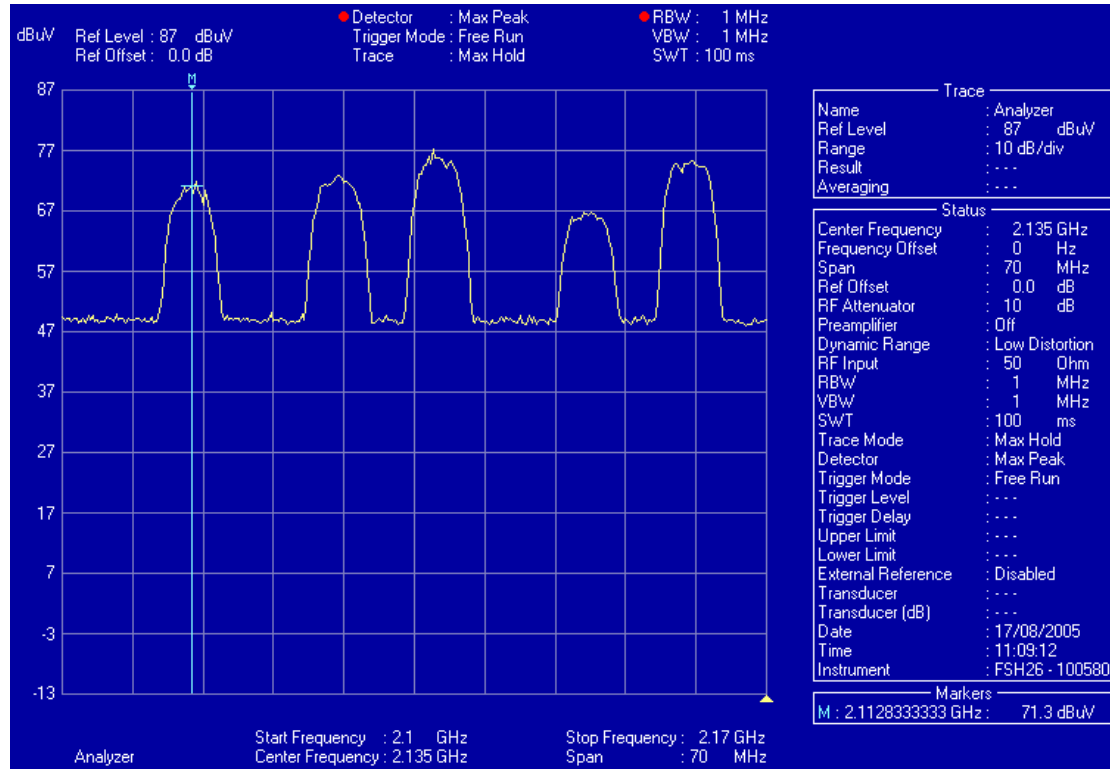
NGR: NZ 2731 7158



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	2112.7	97.9	78,523.6	0.078524	0.0000163555	1.636E-05	10	0.000001635550	1.64E-06
2	2127.5	96.4	66,069.3	0.066069	0.0000115785	1.158E-05	10	0.000001157850	1.16E-06
3	2136.9	102.4	131,825.7	0.131826	0.0000460957	4.61E-05	10	0.000004609570	4.61E-06
4	2152	92.1	40,271.7	0.040272	0.0000043019	4.302E-06	10	0.000000430190	4.30E-07
5	2162.8	99.9	98,855.3	0.098855	0.0000259212	2.592E-05	10	0.000002592120	2.59E-06
									TOTAL 1.04E-05

Location 4: 52 Hallington Mews

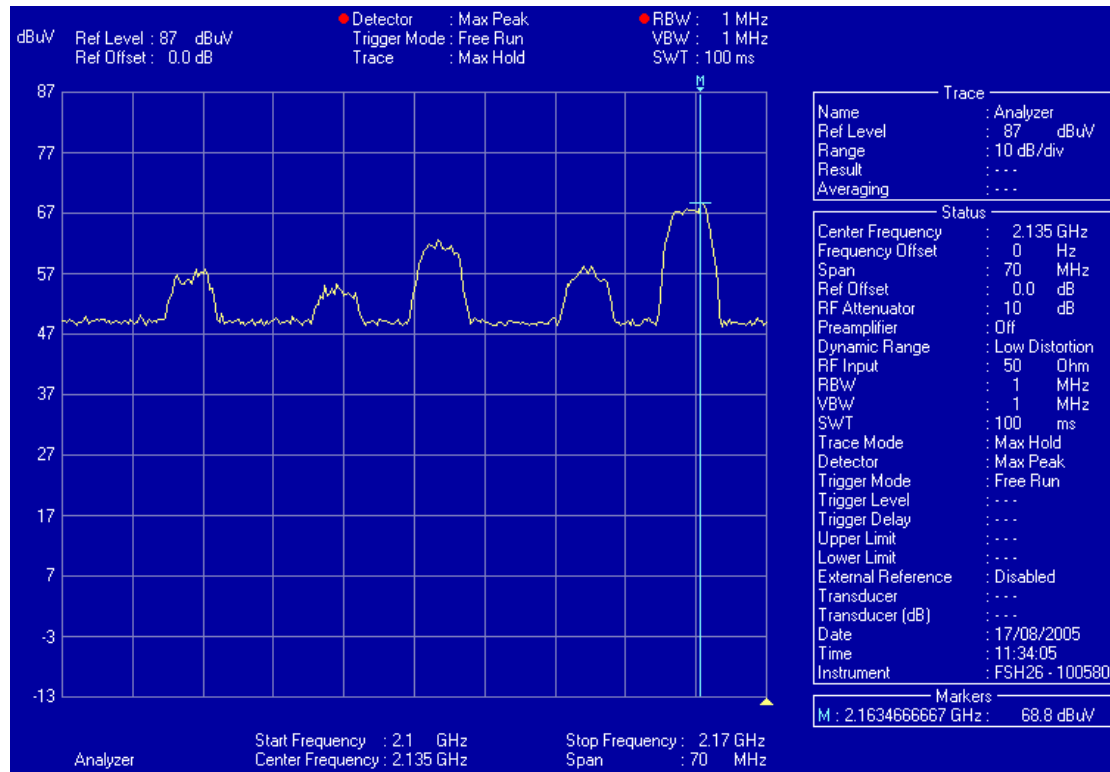
NGR: NZ 2709 7166



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	2112.7	100.8	109,647.8	0.109648	0.0000318904	3.189E-05	10	0.000003189040	3.19E-06
2	2127.5	102.7	136,458.3	0.136458	0.0000493920	4.939E-05	10	0.000004939200	4.94E-06
3	2136.9	106.8	218,776.2	0.218776	0.0001269574	0.000127	10	0.000012695740	1.27E-05
4	2152	96.5	66,834.4	0.066834	0.0000118482	1.185E-05	10	0.000001184820	1.18E-06
5	2162.8	104.7	171,790.8	0.171791	0.0000782816	7.828E-05	10	0.000007828160	7.83E-06
									TOTAL 2.98E-05

Location 5: Northumbrian Way Bus Stop

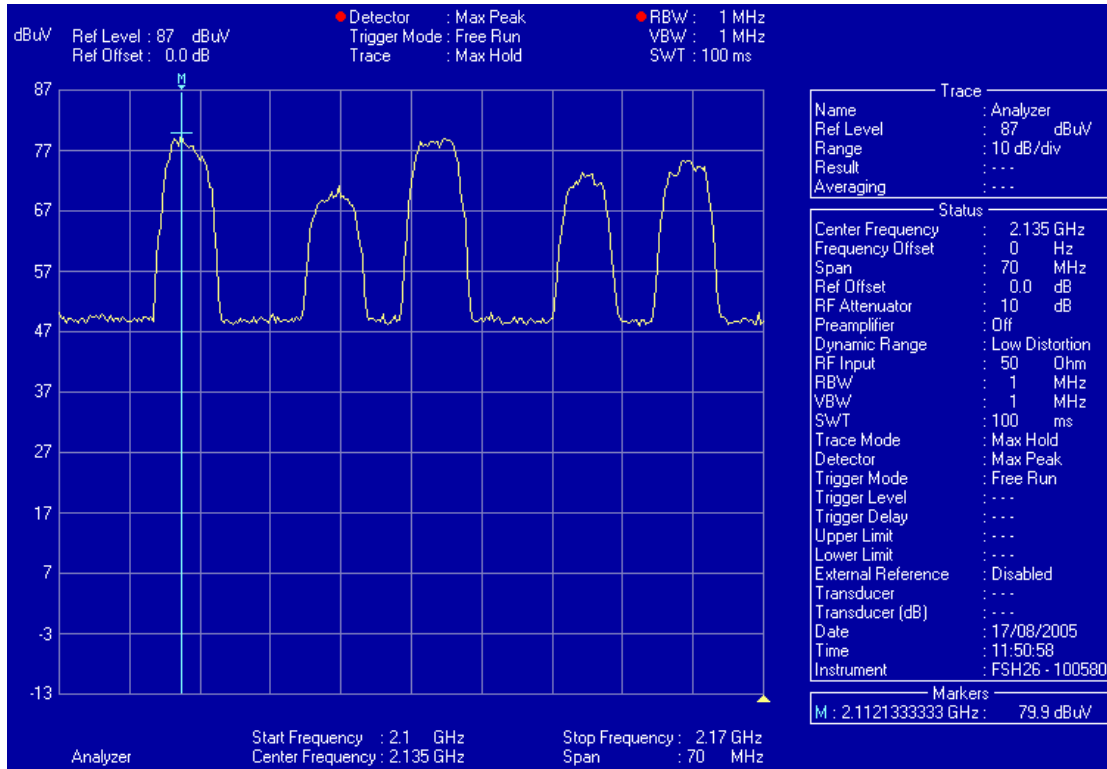
NGR: NZ 2704 7161



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	2112.7	86.9	22,130.9	0.022131	0.0000012992	1.299E-06	10	0.000000129920	1.30E-07
2	2127.5	84.8	17,378.0	0.017378	0.0000008010	8.01E-07	10	0.000000080100	8.01E-08
3	2136.9	91.5	37,583.7	0.037584	0.0000037468	3.747E-06	10	0.000000374680	3.75E-07
4	2152	87.9	24,831.3	0.024831	0.0000016355	1.636E-06	10	0.000000163550	1.64E-07
5	2162.8	98.3	82,224.3	0.082224	0.0000179331	1.793E-05	10	0.000001793310	1.79E-06
									TOTAL 2.54E-06

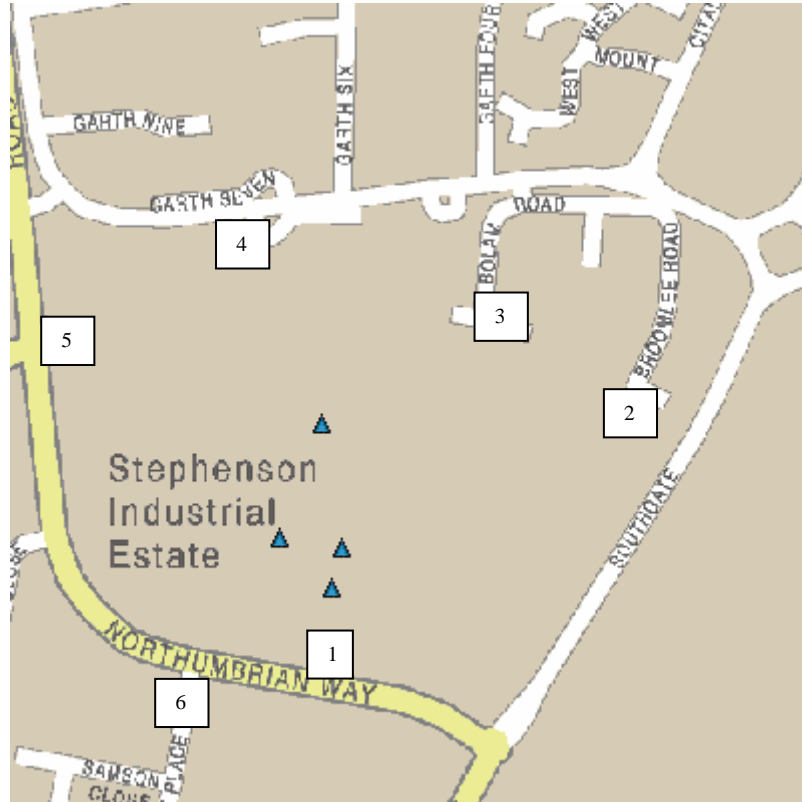
Location 6: SCA Packaging Planet Place

NGR: NZ 2698 7152



Channel	Frequency	Fieldstrength			Power		ICNIRP	3G	3G
	MHz	dBuV/m	uV/m	V/m	W/m ²	W/m ²		Exposure Quotient	Exposure Quotient
1	2112.7	109.4	295,120.9	0.295121	0.0002310249	0.000231	10	0.000023102490	2.31E-05
2	2127.5	100.8	109,647.8	0.109648	0.0000318904	3.189E-05	10	0.000003189040	3.19E-06
3	2136.9	108.6	269,153.5	0.269154	0.0001921588	0.0001922	10	0.000019215880	1.92E-05
4	2152	102.9	139,636.8	0.139637	0.0000517201	5.172E-05	10	0.000005172010	5.17E-06
5	2162.8	104.8	173,780.1	0.173780	0.0000801047	8.01E-05	10	0.000008010470	8.01E-06
TOTAL									5.87E-05

Measurement Locations



- 1 Norgas House car park
- 2 Broomlee Road
- 3 35 Bolam Road
- 4 Ha52 Hallington Mews
- 5 Northumbrian Way bus stop
- 6 SCA Packaging Planet Place

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Annex

2G Mobile Phone Base-Station Audit

Mobile Phone Base-Station Audit

Audit site: Norgas House
Killingworth
Newcastle upon Tyne
NE12 6EH

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, Ofel 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 Norgas House on 17 August 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 Quotient	Relationship to ICNIRP Limit
Broomlee Road	3.76E-05	1/26577
SCA Packaging Planet Place	3.32E-05	1/30150
Norgas House Car Park	2.73E-05	1/36661
52 Hallington Mews	2.69E-05	1/37131
35 Bolam Road	1.35E-05	1/74194
Northumbrian Way Bus Stop	1.34E-06	1/745704

Issued on behalf of Ofcom.

Issued by:

Received by:

Mike Reynolds
Technical Investigation Officer

Mark Ketley

Site: Norgas House
Location: Norgas House Car Park

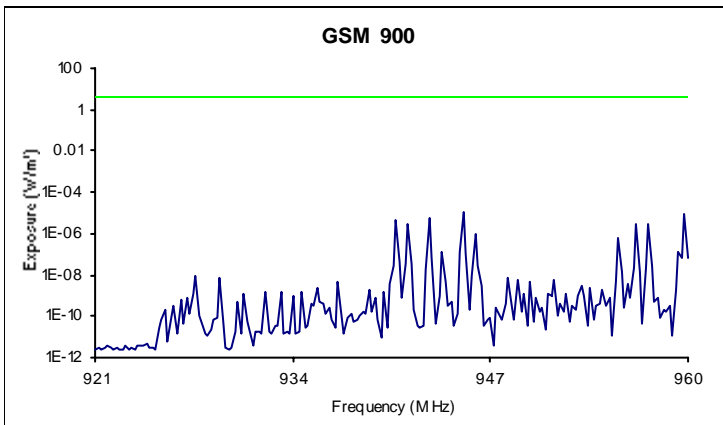
NGR: NZ 2711 7129 **Taken from GPS**

Start Time: 17 August 2005 10:02:05

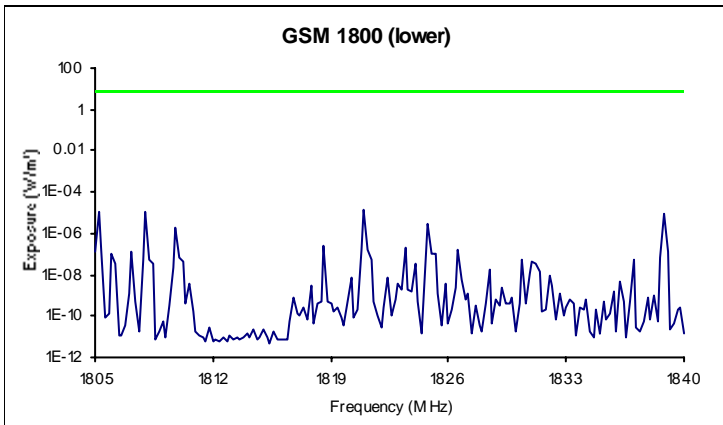
Officer: Mike Reynolds

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005

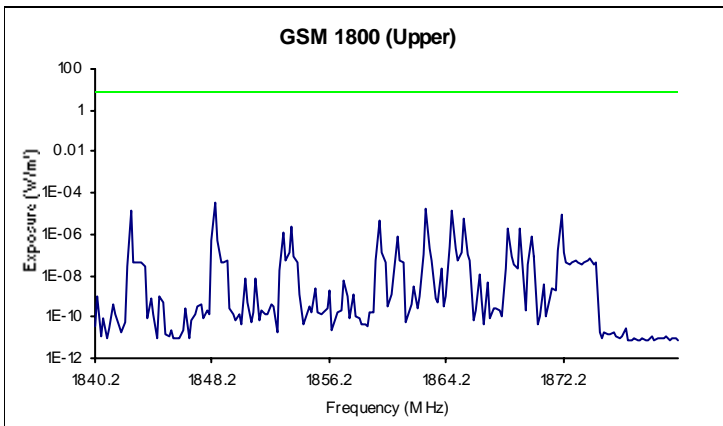
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
945.200	1.17E-05	4.73	2.48E-06
959.800	8.20E-06	4.80	1.71E-06
943.000	5.58E-06	4.71	1.18E-06
940.800	4.95E-06	4.70	1.05E-06
956.600	3.24E-06	4.78	6.77E-07
941.600	3.13E-06	4.71	6.65E-07
957.400	2.70E-06	4.79	5.64E-07
946.000	1.05E-06	4.73	2.21E-07
955.400	5.75E-07	4.78	1.20E-07
943.800	1.44E-07	4.72	3.05E-08
Band Exposure Quotient:			8.91E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,821.000	1.32E-05	9.11	1.45E-06
1,808.000	1.12E-05	9.04	1.24E-06
1,805.200	1.02E-05	9.03	1.13E-06
1,838.800	9.62E-06	9.19	1.05E-06
1,824.800	2.65E-06	9.12	2.90E-07
1,809.800	2.05E-06	9.05	2.26E-07
1,818.600	2.33E-07	9.09	2.57E-08
1,823.400	2.25E-07	9.12	2.46E-08
1,805.400	1.69E-07	9.03	1.87E-08
1,820.800	1.70E-07	9.10	1.86E-08
Band Exposure Quotient:			5.67E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,848.400	3.47E-05	9.24	3.75E-06
1,862.800	1.91E-05	9.31	2.05E-06
1,864.600	1.56E-05	9.32	1.67E-06
1,842.600	1.50E-05	9.21	1.63E-06
1,872.000	9.08E-06	9.36	9.70E-07
1,865.400	5.93E-06	9.33	6.36E-07
1,859.600	5.00E-06	9.30	5.37E-07
1,853.600	2.42E-06	9.27	2.61E-07
1,869.200	1.98E-06	9.35	2.11E-07
1,868.400	1.76E-06	9.34	1.88E-07
Band Exposure Quotient:			1.27E-05

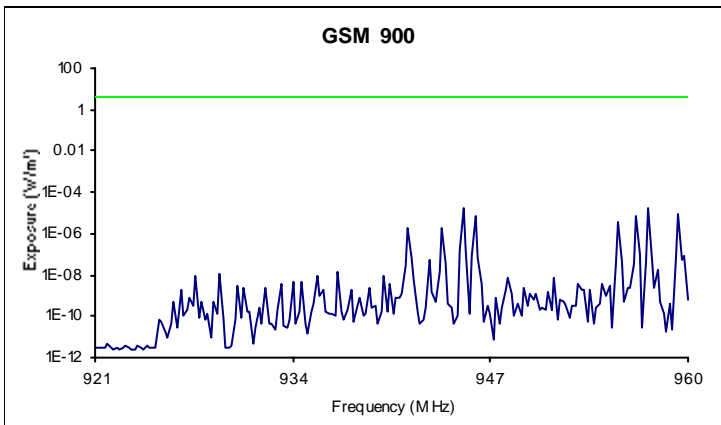
Total number of measurements: 572

Total Band Exposure Quotient: **2.73E-05**

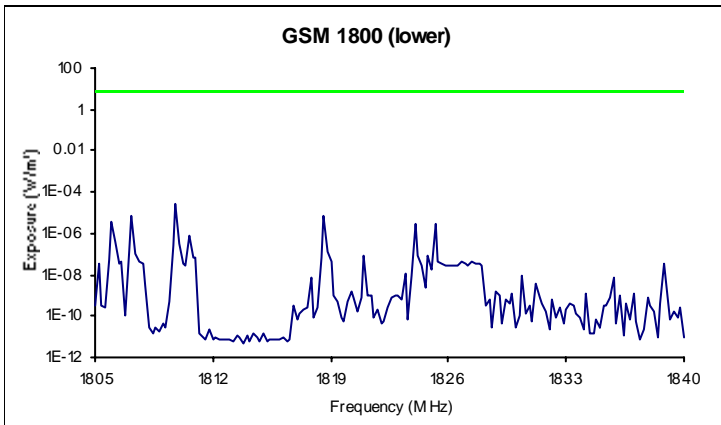
Site: Norgas House
Location: Broomlee Road

NGR: NZ 2744 7148 **Taken from GPS**
Start Time: 17 August 2005 10:38:10
Officer: Mike Reynolds

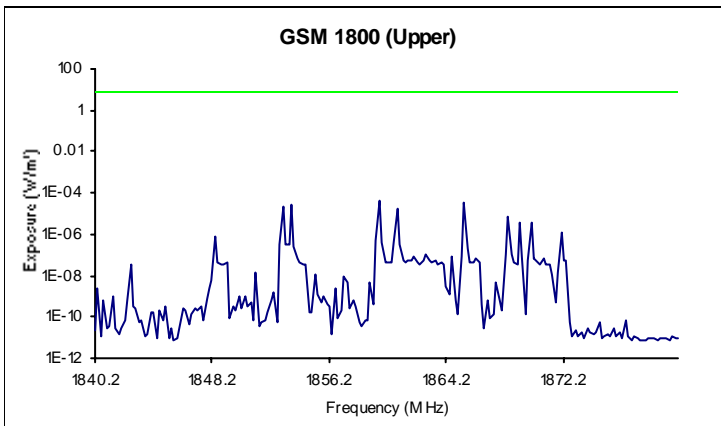
Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
945.200	1.95E-05	4.73	4.12E-06
957.400	1.59E-05	4.79	3.32E-06
959.400	9.62E-06	4.80	2.01E-06
956.600	7.42E-06	4.78	1.55E-06
946.000	6.46E-06	4.73	1.37E-06
955.400	3.46E-06	4.78	7.25E-07
943.800	1.99E-06	4.72	4.21E-07
941.600	1.76E-06	4.71	3.74E-07
945.000	1.62E-07	4.72	3.42E-08
945.400	1.58E-07	4.73	3.35E-08
Band Exposure Quotient:			1.42E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,809.800	2.64E-05	9.05	2.92E-06
1,807.200	7.75E-06	9.04	8.58E-07
1,818.600	7.55E-06	9.09	8.30E-07
1,806.000	3.97E-06	9.03	4.39E-07
1,825.200	3.04E-06	9.13	3.33E-07
1,824.000	2.64E-06	9.12	2.90E-07
1,810.600	7.11E-07	9.05	7.86E-08
1,806.200	3.88E-07	9.03	4.29E-08
1,810.000	3.32E-07	9.05	3.67E-08
1,809.600	2.76E-07	9.05	3.05E-08
Band Exposure Quotient:			6.05E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,859.600	3.97E-05	9.30	4.27E-06
1,865.400	3.57E-05	9.33	3.83E-06
1,853.600	2.48E-05	9.27	2.67E-06
1,853.000	2.06E-05	9.27	2.22E-06
1,860.800	1.90E-05	9.30	2.05E-06
1,868.400	7.17E-06	9.34	7.67E-07
1,869.200	3.85E-06	9.35	4.12E-07
1,870.000	3.44E-06	9.35	3.68E-07
1,872.000	1.25E-06	9.36	1.34E-07
1,848.400	8.32E-07	9.24	9.01E-08
Band Exposure Quotient:			1.74E-05

Total number of measurements: 572

Total Band Exposure Quotient: **3.76E-05**

Site: Norgas House
Location: 35 Bolam Road

NGR: NZ 2731 7158 **Taken from GPS**

Start Time: 17 August 2005 10:57:01

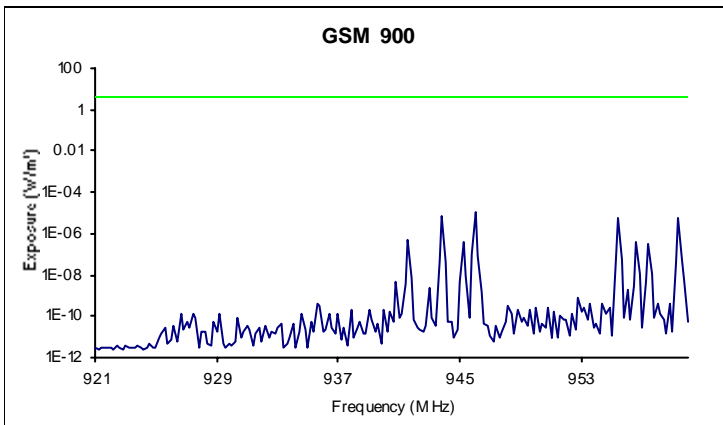
Officer: Mike Reynolds

Receiver:

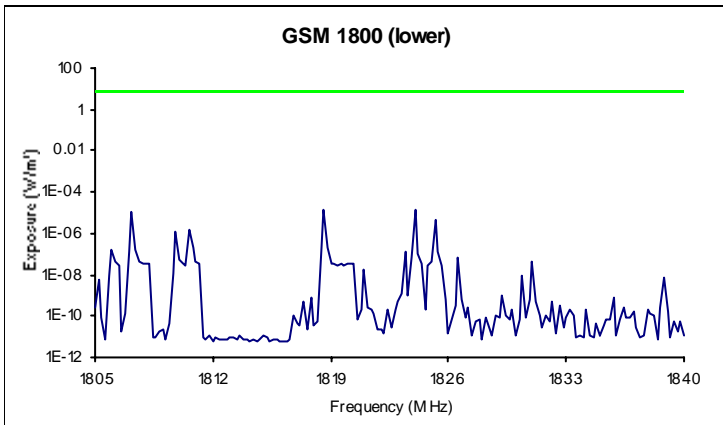
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005

Antenna:

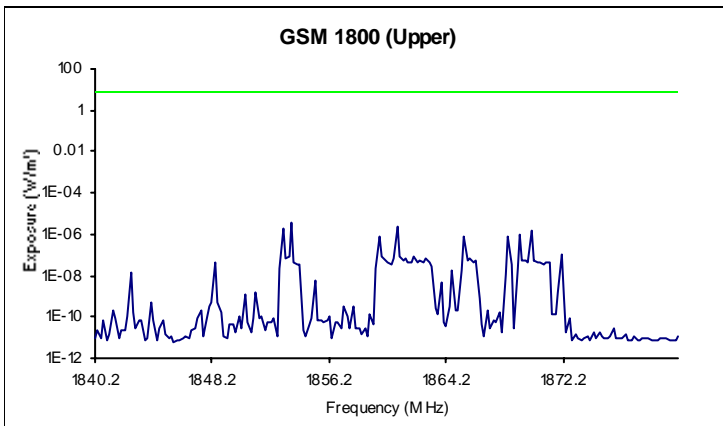
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
946.000	1.07E-05	4.73	2.27E-06
943.800	6.88E-06	4.72	1.46E-06
959.400	5.54E-06	4.80	1.15E-06
955.400	5.36E-06	4.78	1.12E-06
941.600	4.85E-07	4.71	1.03E-07
945.200	4.07E-07	4.73	8.60E-08
956.600	3.99E-07	4.78	8.33E-08
957.400	3.32E-07	4.79	6.94E-08
945.800	1.15E-07	4.73	2.43E-08
946.200	8.32E-08	4.73	1.76E-08
Band Exposure Quotient:			6.47E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,818.600	1.51E-05	9.09	1.66E-06
1,824.000	1.32E-05	9.12	1.45E-06
1,807.200	1.02E-05	9.04	1.13E-06
1,825.200	5.05E-06	9.13	5.53E-07
1,810.600	1.39E-06	9.05	1.53E-07
1,809.800	1.26E-06	9.05	1.40E-07
1,818.400	2.08E-07	9.09	2.29E-08
1,810.800	1.91E-07	9.05	2.11E-08
1,818.800	1.90E-07	9.09	2.09E-08
1,807.400	1.78E-07	9.04	1.97E-08
Band Exposure Quotient:			5.36E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,853.600	4.02E-06	9.27	4.34E-07
1,860.800	2.40E-06	9.30	2.58E-07
1,853.000	1.88E-06	9.27	2.03E-07
1,870.000	1.61E-06	9.35	1.72E-07
1,869.200	9.68E-07	9.35	1.04E-07
1,859.600	7.92E-07	9.30	8.52E-08
1,865.400	7.64E-07	9.33	8.19E-08
1,868.400	7.50E-07	9.34	8.03E-08
1,872.000	1.12E-07	9.36	1.19E-08
1,862.000	8.92E-08	9.31	9.58E-09
Band Exposure Quotient:			1.65E-06

Total number of measurements: 572

Total Band Exposure Quotient: 1.35E-05

Site: Norgas House
Location: 52 Hallington Mews

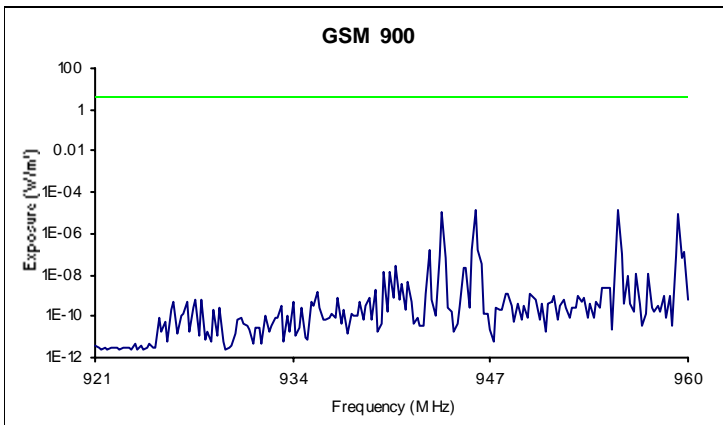
NGR: NZ 2709 7166 **Taken from GPS**

Start Time: 17 August 2005 11:14:04

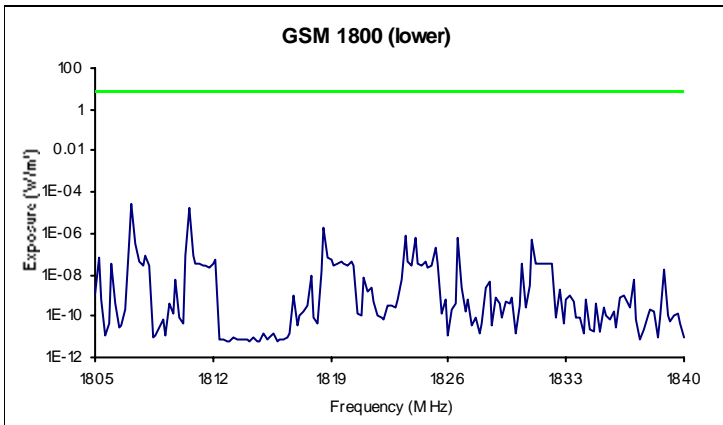
Officer: Mike Reynolds

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005

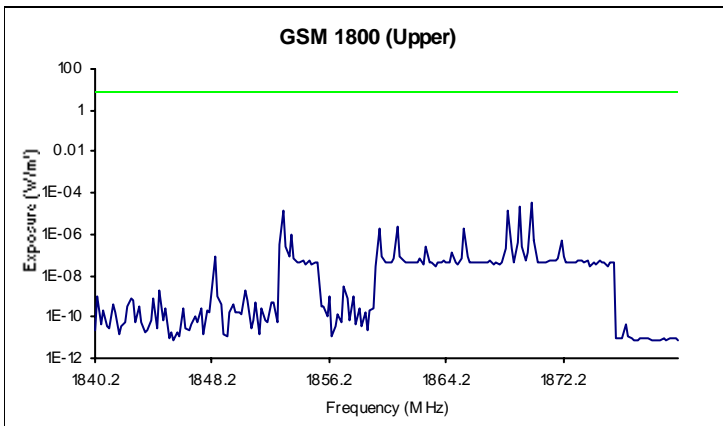
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
946.000	1.51E-05	4.73	3.20E-06
955.400	1.38E-05	4.78	2.89E-06
943.800	1.04E-05	4.72	2.21E-06
959.400	9.19E-06	4.80	1.92E-06
943.000	1.65E-07	4.71	3.50E-08
946.200	1.55E-07	4.73	3.28E-08
945.800	1.55E-07	4.73	3.27E-08
959.800	1.46E-07	4.80	3.04E-08
955.200	1.32E-07	4.78	2.76E-08
955.600	1.05E-07	4.78	2.19E-08
Band Exposure Quotient:			1.05E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,807.200	2.57E-05	9.04	2.84E-06
1,810.600	1.79E-05	9.05	1.97E-06
1,818.600	1.85E-06	9.09	2.04E-07
1,823.400	8.16E-07	9.12	8.95E-08
1,826.600	6.82E-07	9.13	7.47E-08
1,824.000	6.05E-07	9.12	6.64E-08
1,831.000	4.65E-07	9.15	5.08E-08
1,807.000	4.16E-07	9.04	4.61E-08
1,807.400	3.38E-07	9.04	3.75E-08
1,825.200	1.92E-07	9.13	2.10E-08
Band Exposure Quotient:			5.58E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,870.000	3.28E-05	9.35	3.51E-06
1,869.200	2.43E-05	9.35	2.60E-06
1,853.000	1.53E-05	9.27	1.65E-06
1,868.400	1.46E-05	9.34	1.57E-06
1,860.800	2.51E-06	9.30	2.70E-07
1,859.600	2.04E-06	9.30	2.19E-07
1,865.400	1.83E-06	9.33	1.96E-07
1,853.600	9.42E-07	9.27	1.02E-07
1,870.200	4.86E-07	9.35	5.20E-08
1,872.000	4.55E-07	9.36	4.86E-08
Band Exposure Quotient:			1.08E-05

Total number of measurements: 572

Total Band Exposure Quotient: **2.69E-05**

Site: Norgas House
Location: Northumbrian Way Bus Stop

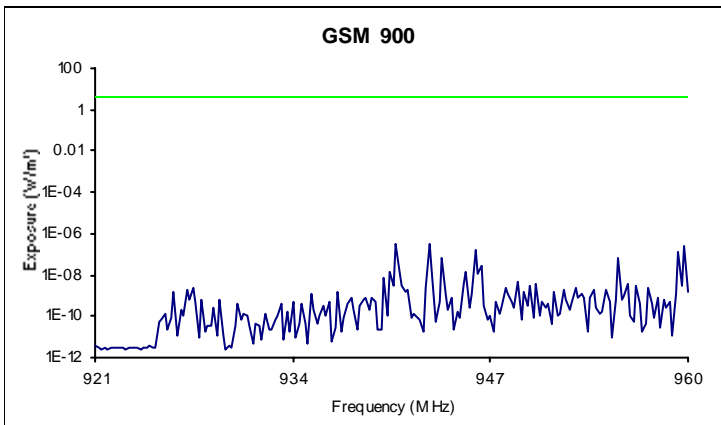
NGR: NZ 2704 7161 **Taken from GPS**

Start Time: 17 August 2005 11:39:21

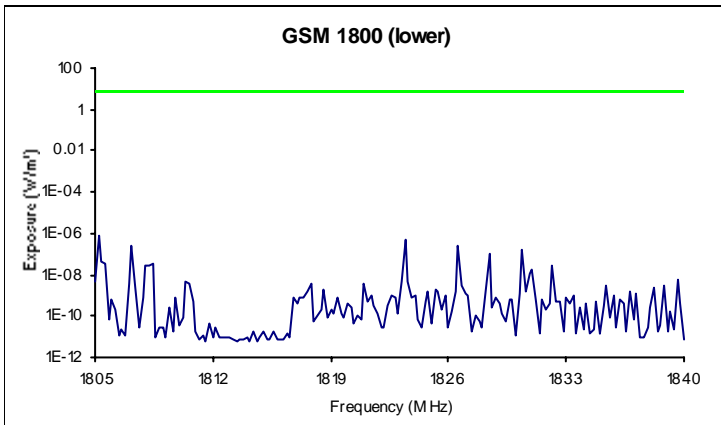
Officer: Mike Reynolds

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005

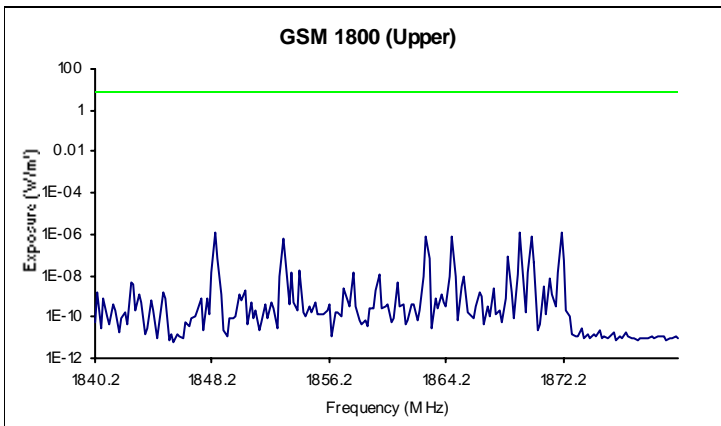
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
943.000	3.52E-07	4.71	7.47E-08
940.800	3.51E-07	4.70	7.45E-08
959.800	2.48E-07	4.80	5.16E-08
946.000	1.51E-07	4.73	3.20E-08
959.400	1.21E-07	4.80	2.53E-08
943.800	7.38E-08	4.72	1.56E-08
955.400	6.45E-08	4.78	1.35E-08
946.400	2.63E-08	4.73	5.56E-09
943.200	1.89E-08	4.72	4.01E-09
945.400	1.41E-08	4.73	2.98E-09
Band Exposure Quotient:			3.30E-07



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,805.200	8.09E-07	9.03	8.96E-08
1,823.400	4.69E-07	9.12	5.15E-08
1,807.200	2.57E-07	9.04	2.84E-08
1,826.600	2.37E-07	9.13	2.59E-08
1,830.400	1.69E-07	9.15	1.84E-08
1,828.400	1.06E-07	9.14	1.16E-08
1,805.400	4.25E-08	9.03	4.70E-09
1,808.400	3.24E-08	9.04	3.58E-09
1,805.600	3.22E-08	9.03	3.57E-09
1,808.000	3.02E-08	9.04	3.34E-09
Band Exposure Quotient:			2.61E-07



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,848.400	1.12E-06	9.24	1.21E-07
1,872.000	1.12E-06	9.36	1.19E-07
1,869.200	1.11E-06	9.35	1.19E-07
1,864.600	7.99E-07	9.32	8.57E-08
1,862.800	7.96E-07	9.31	8.55E-08
1,870.000	7.19E-07	9.35	7.69E-08
1,853.000	6.66E-07	9.27	7.19E-08
1,868.400	7.68E-08	9.34	8.22E-09
1,863.000	6.78E-08	9.31	7.28E-09
1,848.600	6.61E-08	9.24	7.16E-09
Band Exposure Quotient:			7.49E-07

Total number of measurements: 572

Total Band Exposure Quotient: 1.34E-06

Site: Norgas House
Location: SCA Packaging Planet Place

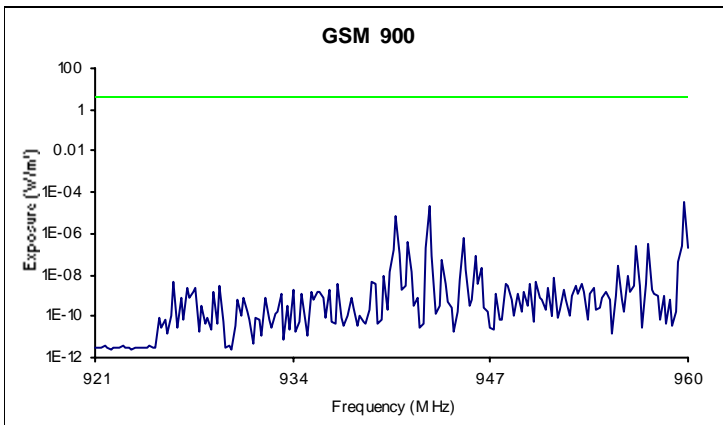
NGR: NZ 2698 7152 **Taken from GPS**

Start Time: 17 August 2005 11:57:43

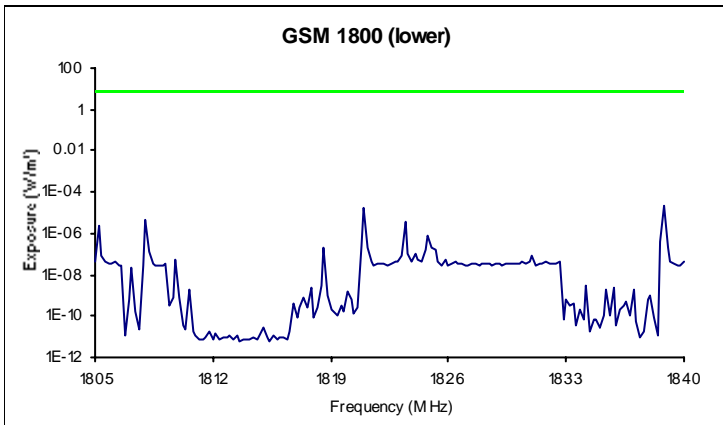
Officer: Mike Reynolds

Receiver:
Manufacturer: ROHDE&SCHWARZ
Model: EB200
Serial Number: 833.643/005

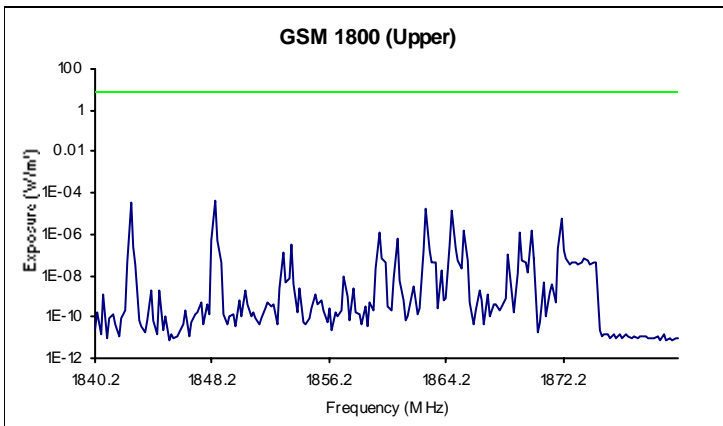
Antenna:
Manufacturer: Rohde & Schwarz
Model: HE200
Serial Number: 728264/025



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
959.800	3.19E-05	4.80	6.65E-06
943.000	2.22E-05	4.71	4.72E-06
940.800	7.16E-06	4.70	1.52E-06
945.200	5.74E-07	4.73	1.22E-07
941.600	4.22E-07	4.71	8.97E-08
957.400	3.17E-07	4.79	6.63E-08
959.600	2.71E-07	4.80	5.66E-08
956.600	2.63E-07	4.78	5.51E-08
960.000	2.21E-07	4.80	4.60E-08
942.800	1.98E-07	4.71	4.20E-08
Band Exposure Quotient:			1.35E-05



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,838.800	2.42E-05	9.19	2.63E-06
1,821.000	1.90E-05	9.11	2.09E-06
1,808.000	4.27E-06	9.04	4.72E-07
1,823.400	3.73E-06	9.12	4.09E-07
1,805.200	2.50E-06	9.03	2.77E-07
1,824.800	8.37E-07	9.12	9.17E-08
1,838.600	4.10E-07	9.19	4.46E-08
1,820.800	2.34E-07	9.10	2.57E-08
1,839.000	2.01E-07	9.20	2.19E-08
1,818.600	1.99E-07	9.09	2.18E-08
Band Exposure Quotient:			6.49E-06



Frequency (MHz)	Maximum Exposure (W/m²)	ICNIRP Limit (W/m²)	Frequency Exposure Quotient
1,848.400	4.17E-05	9.24	4.51E-06
1,842.600	3.13E-05	9.21	3.40E-06
1,862.800	1.66E-05	9.31	1.79E-06
1,864.600	1.56E-05	9.32	1.67E-06
1,872.000	6.00E-06	9.36	6.41E-07
1,865.400	1.67E-06	9.33	1.79E-07
1,870.000	1.50E-06	9.35	1.61E-07
1,859.600	1.31E-06	9.30	1.41E-07
1,869.200	1.09E-06	9.35	1.16E-07
1,860.800	6.16E-07	9.30	6.62E-08
Band Exposure Quotient:			1.31E-05

Total number of measurements: 572

Total Band Exposure Quotient: **3.32E-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(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