

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: NTT docomo P-09A

To: FCC Part 24: 2008 Subpart E

Test Report Serial No: RFI/RPT2/RP75009JD05A

Supersedes Test Report Serial No: RFI/RPT1/RP75009D05A

This Test Report Is Issued Under The Authority Of Brian Watson, Operations Director:	dill
Checked By:	A.HENRIQUES
Signature:	dill
Date of Issue:	30 April 2009

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RFI Global Services Ltd

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1. Customer Information

Company Name:	Panasonic Mobile Communications Development of Europe Ltd.	
Address:	Panasonic House Willoughby Road Bracknell Berkshire RG12 8FP	

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2. Summary of Testing

2.1. General Information

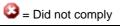
Specification Reference:	47CFR24
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2008: Part 24 Subpart E (Personal Communication Services)
Site Registration:	FCC: 209735
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.
Test Dates:	16 April 2009 to 20 April 2009

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Port Type	Result
Part 15.107	Idle Mode AC Conducted Spurious Emissions	AC Mains	②
Part 15.109	Idle Mode Radiated Spurious Emissions	Enclosure	
Part 15.207	Transmitter AC Conducted Spurious Emissions	AC Mains	
Part 24.232	Transmitter Effective Isotropic Radiated Power (EIRP)	Antenna	②
Part 24.235	Transmitter Frequency Stability (Temperature & Voltage Variation)	Antenna	②
Part 2.1049/24.238	Transmitter Occupied Bandwidth	Antenna	②
Part 2.1053/24.238	Transmitter Out of Band Radiated Emissions	Antenna	②
Part 2.1053/24.238	Transmitter Band Edge Radiated Emissions	Antenna	(

Key to Results





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2.3. Methods and Procedures

Reference:	ANSI/TIA-603-C-2004
Title:	Land Mobile Communications Equipment, Measurements and performance Standards
Reference:	ANSI C63.4 (2003)
Title:	American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

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3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

3.1. Identification of Equipm	ent onder rest (Lor)	
Brand Name:	NTT docomo	
Model Name or Number:	P-09A	
Hardware Version:	Rev C	
Software Version:	B-WN908F-01.06.004 08-2H_CPF_Cv0513531	
IMEI Number(s)	356755020022496	
FCC ID Number:	UCE209018A	
Description:	Micro-SD Memory Card	
Brand Name:	Not stated	
Model Name or Number:	Not stated	
Description:	Personal Hands-Free	
Brand Name:	NTT docomo	
Model Name or Number:	Stereo Earphone Set 01	
Description:	AC charger	
Brand Name:	NTT docomo	
Model Name or Number:	FOMA AC Adapter 01 for Global use / MAS-BH0008-A 002	
Description:	DC charger	
Brand Name:	NTT docomo	
Model Name or Number:	FOMA DC Adapter 02	
Description:	Charge/USB data cable	
Brand Name:	NTT docomo	
Model Name or Number:	FOMA USB Cable with Charge Function 02	
Description:	Battery	
Brand Name:	NTT	
Model Name or Number:	P19	

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3.2. Description of EUT

The equipment under test was a dual mode UMTS/GSM cellular handset with Bluetooth and RFID

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Technology Tested:	PCS1900				
Type of Radio Device:	Transceiver				
Mode:	GSM/GPRS	GSM/GPRS			
Modulation Type:	GMSK				
Channel Spacing:	200 kHz				
Power Supply Requirement(s):	Nominal	3.7 V			
	Minimum	3.4 V			
	Maximum	4.2 V			
Maximum Output Power (EIRP):	GSM	GSM 31.4 dBm			
	GPRS 30.0 dBm				
Transmit Frequency Range:	1850 to 1910 MHz	•			
Transmit Channels Tested:	Channel ID Channel Number Channel Frequency (MH:				
	Bottom 512 1850.2				
	Middle 660 1879.8				
	Top 810 1909.8				
Receive Frequency Range:	1930 to 1990 MHz				
Receive Channels Tested:	Channel ID Channel Number Channel Frequency (Mi		Channel Frequency (MHz)		
	Bottom 512 1930.2		1930.2		
	Middle 660 1959.8				
	Top 810 1989.8				

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Dummy battery	
Brand Name: Not stated		
Model Name or Number:	Not stated	
Serial Number:	Not stated	

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4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Idle mode.
- Constantly transmitting at full power on bottom, centre and top channels as required.
- Occupied bandwidth, EIRP and band edge tests were performed with the EUT in GSM single timeslot circuit switched and GPRS Multislot Class 10 with the unit transmitting on two timeslots in the uplink.
- Transmitter radiated spurious emissions were checked in all modes during prescans.
 Circuit switched voice was found to be the worst case and all final measurements were performed with the EUT in this mode.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- Connected to a GSM/GPRS system simulator, operating in transceiver mode.
- Transmitter radiated spurious emissions test was performed standalone and idle mode test
 was performed with the AC charger connected to the EUT and 120VAC supply as this was
 found to be the worst case during prescans. All accessories were individually connected
 and measurements made during prescans to determine the worst case combination.

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5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6. Measurement Uncertainty for details.

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5.2. Test Results

5.3. Idle Mode AC Conducted Spurious Emissions

Test Summary:

FCC Part:	15.107(a)	
Test Method Used:	As detailed in ANSI C63.4 Section 7 and relevant annexes	

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	43

Results: Quasi Peak Detector Measurements

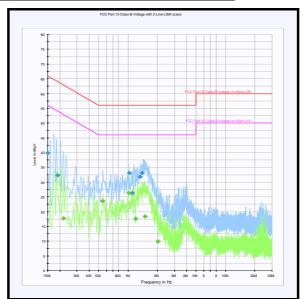
Frequency (MHz)	Line	Quasi Peak Level (dBμV)	Limit (dΒμV)	Margin (dB)	Result
0.150000	Neutral	39.8	66.0	26.2	Complied
0.190500	Live	32.4	64.0	31.6	Complied
1.023000	Live	33.1	56.0	22.9	Complied
1.108500	Neutral	26.3	56.0	29.7	Complied
1.324500	Neutral	31.8	56.0	24.2	Complied
1.387500	Live	33.1	56.0	22.9	Complied

Results: Average Detector Measurements

Frequency (MHz)	Line	Average Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
0.217500	Live	17.7	52.9	35.2	Complied
0.550500	Live	23.5	46.0	22.5	Complied
1.018500	Live	26.4	46.0	19.6	Complied
1.198500	Neutral	17.6	46.0	28.4	Complied
1.500000	Neutral	18.4	46.0	27.6	Complied
2.031000	Live	10.0	46.0	36.0	Complied

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Idle Mode AC Conducted Spurious Emissions (continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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5.4. Idle Mode Radiated Spurious Emissions

Test Summary:

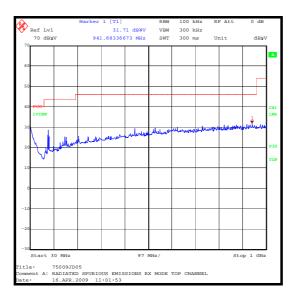
FCC Part:	15.109
Frequency Range:	30 MHz to 1000 MHz
Test Method Used:	As detailed in ANSI C63.4 Section 8 and relevant annexes

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	30

Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
104.087	Vertical	27.9	43.5	15.6	Complied
268.279	Horizontal	27.4	46.0	18.6	Complied



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see table above.

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Idle Mode Radiated Spurious Emissions (continued)

Test Summary:

FCC Part:	15.109
Frequency Range:	1 GHz to 12.75 GHz
Test Method Used:	As detailed in ANSI C63.4 Section 8 and relevant annexes

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	30

Results:

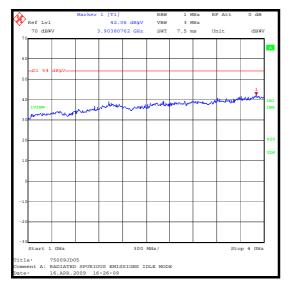
Frequency (GHz)	Antenna Polarity	Detector Level (dB _µ V)	Transducer Factor (dB)	Peak Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
12.436	Vertical	67.1	14.2	52.9	54.0	1.1	Complied

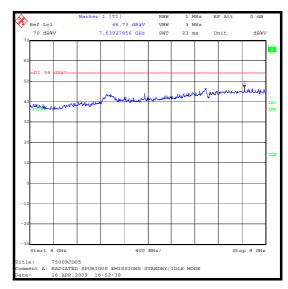
Note(s):

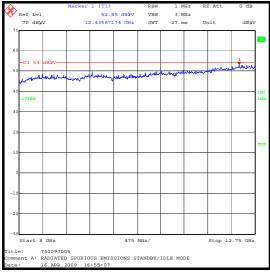
- 1. No spurious emissions were detected above the noise floor of the measuring receiver; therefore, the highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.
- 2. The peak level was compared to the average limit as opposed to being compared to the peak limit because this is the more onerous limit.

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Idle Mode Radiated Spurious Emissions (continued)







Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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5.5. Transmitter AC Conducted Spurious Emissions

Test Summary:

FCC Part:	15.207(a)
Test Method Used:	As detailed in ANSI C63.4 Section 7 and relevant annexes

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	30

Results: Quasi Peak Detector Measurements

Frequency (MHz)	Line	Quasi Peak Level (dBμV)	Limit (dΒμV)	Margin (dB)	Result
Refer to note 1					

Results: Average Detector Measurements

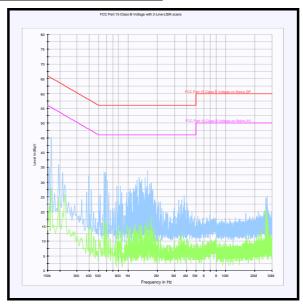
Frequency (MHz)	Line	Average Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
Refer to note 1					

Note(s):

1. All emissions were investigated and found to be at least 20 dB below the specified limit.

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AC Conducted Spurious Emissions (continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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5.6. Transmitter Effective Isotropic Radiated Power (EIRP)

Test Summary:

FCC Part:	24.232
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.17.2

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	30

Results: GSM

Channel	Measured Frequency (MHz)	Antenna Polarity	Maximum Transmitter (dBm)	Limit (dBm)	Margin (dBm)	Result
Bottom	1850.2	Horizontal	31.4	33.0	1.6	Complied
Middle	1879.8	Horizontal	29.8	33.0	3.2	Complied
Тор	1909.8	Horizontal	30.0	33.0	3.0	Complied

Results: GPRS

Channel	Measured Frequency (MHz)	Antenna Polarity	Maximum Transmitter (dBm)	Limit (dBm)	Margin (dBm)	Result
Bottom	1850.2	Horizontal	29.9	33.0	3.1	Complied
Middle	1879.8	Horizontal	28.3	33.0	4.7	Complied
Тор	1909.8	Horizontal	30.0	33.0	3.0	Complied

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5.7. Transmitter Frequency Stability (Temperature Variation)

Test Summary:

FCC Part:	24.235
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.2 referencing FCC CFR Part 2.1055

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	29

Results: Bottom Channel (1850.2 MHz)

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
-30	-19	1850.199981	1850.0	0.199981	Complied
-20	-32	1850.199968	1850.0	0.199968	Complied
-10	-25	1850.199975	1850.0	0.199975	Complied
0	-22	1820.199978	1850.0	0.199978	Complied
10	-30	1850.199970	1850.0	0.199970	Complied
20	-55	1850.199945	1850.0	0.199945	Complied
30	-30	1850.199970	1850.0	0.199970	Complied
40	-41	1850.199959	1850.0	0.199959	Complied
50	-20	1850.199980	1850.0	0.199980	Complied

Results: Top Channel (1909.8 MHz)

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
-30	-30	1909.799970	1910.0	0.200030	Complied
-20	-29	1909.799971	1910.0	0.200029	Complied
-10	-27	1909.799973	1910.0	0.200027	Complied
0	-23	1909.799977	1910.0	0.200023	Complied
10	-40	1909.799960	1910.0	0.200040	Complied
20	-42	1909.799958	1910.0	0.200042	Complied
30	-31	1909.799969	1910.0	0.200031	Complied
40	-34	1909.799966	1910.0	0.200034	Complied
50	-22	1909.799978	1910.0	0.200022	Complied

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5.8. Transmitter Frequency Stability (Voltage Variation)

Test Summary:

FCC Part:	24.235
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.2 referencing FCC CFR Part 2.1055

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	29

Results: Bottom Channel (1850.2 MHz)

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
3.4	-40	1850.199960	1850	0.199960	Complied
4.2	-41	1850.199959	1850	0.199959	Complied

Results: Top Channel (1909.8 MHz)

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
3.4	-41	1909.799959	1910	0.200041	Complied
4.2	-38	1909.799962	1910	0.200038	Complied

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5.9. Transmitter Occupied Bandwidth

Test Summary:

FCC Part:	24.238
Test Method Used:	As detailed in ANSI C63.4 Section13.1.7 and relevant annexes referencing FCC CFR Part 2.1049 (see note below)

Environmental Conditions:

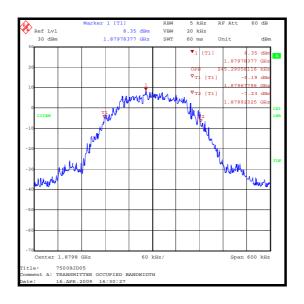
Temperature (°C):	25
Relative Humidity (%):	30

Results: GSM

Channel	Frequency (MHz)	Occupied Bandwidth (kHz)
Middle	1879.8	245.291

Note(s):

1. In lieu of the test method detailed in ANSI C63.4 Section13.1.7 the 99% occupied bandwidth was measured using the Occupied Bandwidth function of the spectrum analyser.



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Transmitter Occupied Bandwidth (continued)

Test Summary:

FCC Part:	24.238
Test Method Used:	As detailed in ANSI C63.4 Section13.1.7 and relevant annexes referencing FCC CFR Part 2.1049 (see note below)

Environmental Conditions:

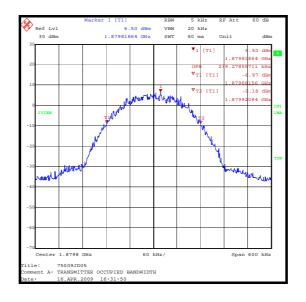
Temperature (°C):	25
Relative Humidity (%):	30

Results: GPRS

Channel	Frequency (MHz)	Occupied Bandwidth (kHz)
Middle	1879.8	239.279

Note(s):

1. In lieu of the test method detailed in ANSI C63.4 Section13.1.7 the 99% occupied bandwidth was measured using the Occupied Bandwidth function of the spectrum analyser.



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5.10. Transmitter Out of Band Radiated Emissions

Test Summary:

FCC Part:	2.1053 & 24.238
Frequency Range:	30 MHz to 20 GHz
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.12 referencing FCC CFR Parts 2.1053 and 24.238

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	29

Results: Bottom Channel

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dBm)	Result
5550.658	-34.6	-13.0	21.6	Complied
9250.810	-19.4	-13.0	6.4	Complied

Results: Middle Channel

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dBm)	Result
5639.430	-35.9	-13.0	22.9	Complied
9398.882	-21.2	-13.0	8.2	Complied

Results: Top Channel

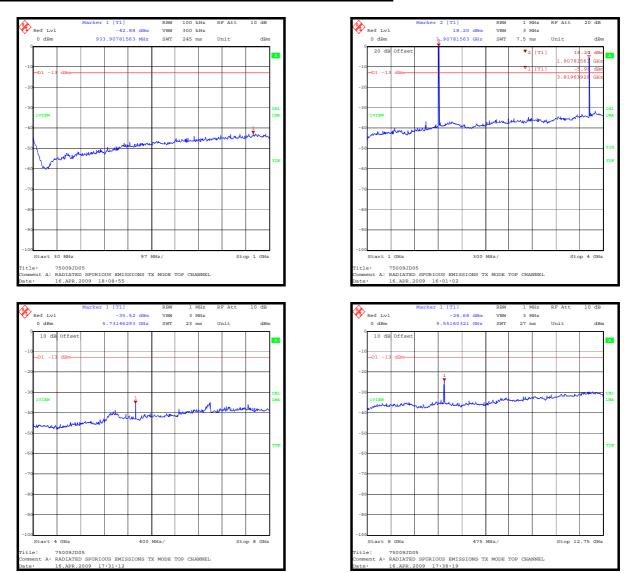
Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dBm)	Result
5729.351	-33.5	-13.0	20.5	Complied
9548.896	-23.1	-13.0	10.1	Complied

Note(s):

- 1. The uplink traffic channel is shown on the 1 GHz to 4 GHz plot at approximately 1909 MHz and downlink traffic channel at approximately 1990 MHz
- 2. The emission at 3.8196 GHz on the 1 GHz to 4 GHz plot was caused by distortion in the preamplifier used during pre-scans. The final measurement of this emission was measured using an appropriate filter and the emission level was found to be below the level of the noise floor.

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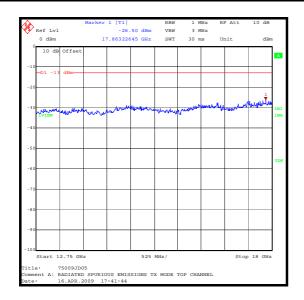
Transmitter Out of Band Radiated Emissions (continued)

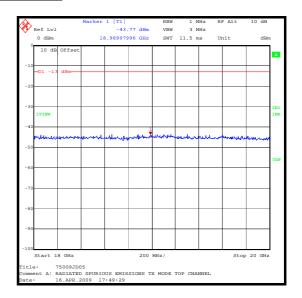


Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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Transmitter Out of Band Radiated Emissions (continued)





Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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5.11. Transmitter Radiated Emissions at Band Edges

Test Summary:

FCC Part:	2.1053 & 24.238
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.12 referencing FCC CFR Parts 2.1053 and 24.238
Modulation:	GSM

Environmental Conditions:

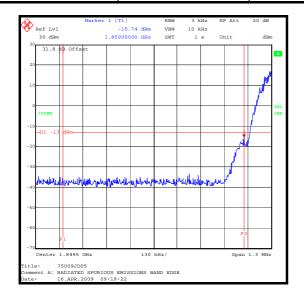
Temperature (°C):	25
Relative Humidity (%):	30

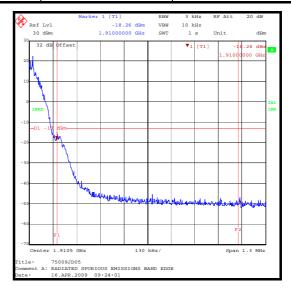
Results: Bottom Band Edge

Frequency Peak Emission (MHz) Level (dBm)		Limit (dBm)	Margin (dBm)	Result
1850	-15.7	-13.0	2.7	Complied

Results: Top Band Edge

Frequency	Peak Emission	Limit	Margin	Result
(MHz)	Level (dBm)	(dBm)	(dBm)	
1910	-18.3	-13.0	5.3	Complied





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Transmitter Radiated Emissions at Band Edges (continued)

Test Summary:

FCC Part:	2.1053 & 24.238		
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.12 referencing FCC CFR Parts 2.1053 and 24.238		
Modulation:	GPRS		

Environmental Conditions:

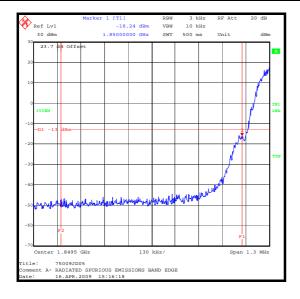
Temperature (°C):	25
Relative Humidity (%):	30

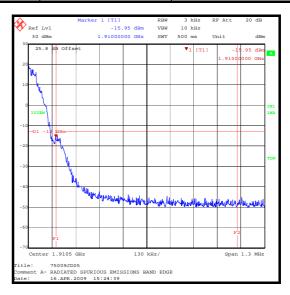
Results: Bottom Band Edge

Frequency	Peak Emission	Limit	Margin	Result
(MHz)	Level (dBm)	(dBm)	(dBm)	
1850	-16.2	13.0	3.2	Complied

Results: Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dBm)	Result
1910	-16.0	-13.0	3.0	Complied





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6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.72 dB
Effective Isotropic Radiated Power (EIRP)	Not applicable	95%	±2.94 dB
Frequency Stability	Not applicable	95%	±0.92 ppm
Occupied Bandwidth	824 to 849 MHz	95%	±0.92 ppm
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	±4.64 dB
Radiated Spurious Emissions	1 GHz to 26 GHz	95%	±2.94 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

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Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A004	LISN	Rohde & Schwarz	ESH3-Z5	890604/027	19 May 2008	12
A1142	Directional Coupler	Omni Spectra	2026-6004- 10	026	Calibrated before use	-
A1299	Antenna	Schaffner	CBL6143	5094	28 Jul 2008	12
A1391	Attenuator	Huber + Suhner	757987	6810.17.B	Calibrated before use	-
A1516	Radio Comms Tester	Rohde & Schwarz	CMU200	835687/011	Calibration not required	-
A1534	Pre Amplifier	Hewlett Packard	8449B OPT H02	3008A00405	Calibrated before use	-
A1818	Antenna	EMCO	3115	00075692	25 Oct 2008	12
A1830	Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100668	05 Jan 2009	12
A1933	3 GHz High Pass Filter	AtlanTEC RF	AFH-03000	30R- JFBN07-001	14 Oct 2008	12
E013	Environmental Chamber	Sanyo	ATMOS chamber	None	Calibrated before use	-
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	13 Aug 2008	-
M1068	Thermometer	Iso-Tech	RS55	93102884	09 Jul 2008	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESIB26	100046K	09 Mar 2009	12
M1242	Spectrum Analyser	Rhode & Schwarz	FSEM30	845986/022	09 Dec 2008	12
M1269	Multimeter	Fluke	179	90250210	06 Apr 2009	12
M1379	Test Receiver	Rhode & Schwarz	ESIB7	100330	14 Aug 2008	12
S0520	DC Power Supply	GW instek	GPC-3030	E835141	Calibrated before use	-

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.

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