

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: Softbank 841P

To: FCC Part 24: 2008 Subpart E

Test Report Serial No: RFI/RPT2/RP76607JD03A

Supersedes Test Report Serial No: RFI/RPT1/RP76607JD03A

This Test Report Is Issued Under The Authority Of Brian Watson, Operations Director:	dill
Checked By:	Tony Henriques
Signature:	dicie
Date of Issue:	22 December 2009

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields.

This report may not be reproduced other than in full, except with the prior written approval of RFI Global Services Ltd. The results in this report apply only to the sample(s) tested.

RFI Global Services Ltd

Pavilion A, Ashwood Park, Ashwood Way, Basingstoke, Hampshire RG23 8BG Telephone: +44 (0)1256 312000 Facsimile: +44 (0)1256 312001 Email: info@rfi-global.com Website: www.rfi-global.com

ISSUE DATE: 22 DECEMBER 2009

This page has been left intentionally blank.

Page 2 of 30 RFI Global Services Ltd

Table of Contents

1. Customer Information	4
2. Summary of Testing	
3. Equipment Under Test (EUT)	7
4. Operation and Monitoring of the EUT during Testing	10
5. Measurements, Examinations and Derived Results	11
6. Measurement Uncertainty	29
Annendiy 1 Test Equipment Used	30

1. Customer Information

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

Page 4 of 30 RFI Global Services Ltd

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:	10 December 2009 to 12 December 2009

2.2. Summary of Test Results

FCC Reference (CFR 47)	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	Ø
Part 15.207	Transmitter AC Conducted Spurious Emissions	AC Mains	Ø
Part 24.232	Transmitter Effective Isotropic Radiated Power (EIRP)	Antenna	②
Part 2.1046	Transmitter Conducted Average Output Power	Antenna Terminal*	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	②
Key to Results			

*The measurement was performed on the conducted sample of the EUT which was fitted with a temporary antenna connector to facilitate measurements

RFI Global Services Ltd Page 5 of 30

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.

Page 6 of 30 RFI Global Services Ltd

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

3.1. Identification of Equipment Orider Test (EOT)		
Brand Name:	Softbank	
Model Name or Number:	841P	
IMEI Number:	004401220851493 (Radiated sample) 004401220851618 (Conducted sample)	
Hardware Version Number:	Rev C	
Software Version Number:	841PVT08	
FCC ID Number:	UCE209025A	
Description:	AC Charger	
Brand Name:	SoftBank	
Model Name or Number:	ZTDAA1	
Description:	DC Charger	
Brand Name:	SoftBank	
Model Name or Number:	PMJAA1	
Description:	USB Data Cable	
Brand Name:	SoftBank	
Model Name or Number:	ZTFE01	
<u></u>		
Description:	Personal Hands-free	
Brand Name:	SoftBank	
Model Name or Number:	ZTCK01	
Description:	Personal Hands-free Converter	
Brand Name:	SoftBank	
Model Name or Number:	PMLAJ1	
Description:	Battery	
Brand Name:	SoftBank	
Model Name or Number:	PMBAT1	
Description:	Micro SD memory card	
Brand Name:	Not Stated	
Model Name or Number:	Not Stated	

RFI Global Services Ltd Page 7 of 30

3.3. Description of EUT

The Equipment Under Test was a dual mode (W-CDMA FDDI/GSM900/1800/1900MHz) Cellular Mobile Telephone.

3.4. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.5. Additional Information Related to Testing

Technology Tested:	PCS1900			
Type of Radio Device:	Transceiver			
Mode:	GSM/GPRS			
Modulation Type:	GMSK			
Channel Spacing:	200 kHz	200 kHz		
Power Supply Requirement(s):	Nominal	3.7 V		
	Minimum	3.4 V		
	Maximum	4.2 V		
Maximum Output Power (EIRP):	GSM	30.1 dBm		
	GPRS	28.3 dBm		
Transmit Frequency Range:	1850 to 1910 MHz			
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)	
	Bottom	512	1850.2	
	Middle	660	1879.8	
	Тор	810	1909.8	
Receive Frequency Range:	1930 to 1990 MHz			
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)	
	Bottom	512	1930.2	
	Middle	660	1959.8	
	Тор	810	1989.8	

Page 8 of 30 RFI Global Services Ltd

3.2. Support Equipment

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

Description:	Universal Radio Communications Tester	
Brand Name:	Rhode & Schwarz	
Model Name or Number:	CMU200	
Serial Number:	835687/011	

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

RFI Global Services Ltd Page 9 of 30

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
- Idle mode and transmitter mode radiated spurious emissions tests were performed with the USB data cable connected to the EUT and to the support laptop 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.

Page 10 of 30 RFI Global Services Ltd

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 Uncertainties for details.

RFI Global Services Ltd Page 11 of 30

5.2. Test Results

5.2.1. 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 (%):	30

Results: Quasi Peak Detector Measurements

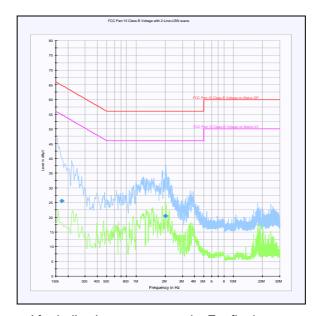
Frequency (MHz)	Line	Quasi Peak Level (dBμV)	Limit (dΒμV)	Margin (dB)	Result
0.172500	Live	25.5	64.8	39.3	Complied
1.995000	Live	20.5	56.0	35.5	Complied

Results: Average Detector Measurements

Frequency (MHz)	Line	Average Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
See Note 1					

Note(s):

1. All emissions were greater than 20 dB below the appropriate specification limit



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

Page 12 of 30 RFI Global Services Ltd

5.2.2. Idle Mode Radiated Spurious Emissions

Test Summary:

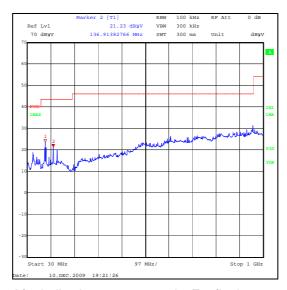
FCC Part:	15.109
Frequency Range:	30 MHz to 1000 MHz
Test Method Used:	As detailed in ANSI C63.4 Section 8 and relevant annexes

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	28

Results:

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
104.049	Horizontal	24.2	43.5	19.2	Complied
138.079	Horizontal	21.9	43.5	21.6	Complied



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

RFI Global Services Ltd Page 13 of 30

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 (%):	28

Results:

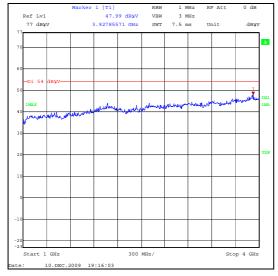
Frequency (MHz)	Antenna Polarity	Peak Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
3927.856	Vertical	48.0	54.0	6.0	Complied

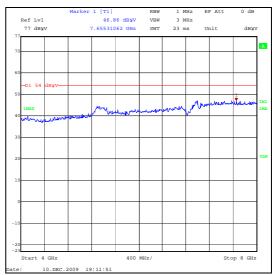
Note(s):

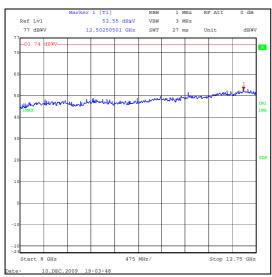
- No spurious emissions were detected above the noise floor of the measuring receiver therefore the
 highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.
 The peak level was compared to the average limit as opposed to being compared to the peak limit
 because this is the more onerous limit.
- 2. All pre-scan were performed with the peak detector against average limits apart from measurement made in the range of 8 GHz to 12.75 GHz where pre-scans were performed with peak and average detector and the applicable limit apply. This was due to the noise floor exceeding the average limit when using the peak detector.

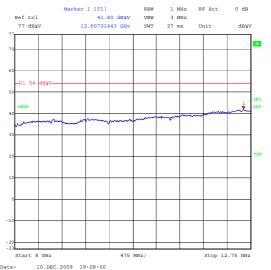
Page 14 of 30 RFI Global Services Ltd

Idle Mode Radiated Spurious Emissions (continued)









Peak Detector

Average Detector

RFI Global Services Ltd Page 15 of 30

5.2.3. Transmitter AC Conducted Spurious Emissions

Test Summary:

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

Environmental Conditions:

Temperature (°C):	18
Relative Humidity (%):	27

Results: Quasi Peak Detector Measurements

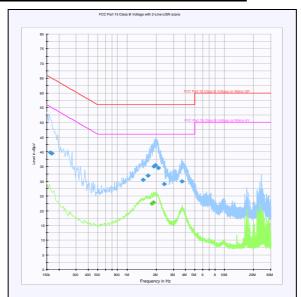
Frequency (MHz)	Line	Quasi Peak Level (dBμV)	Limit (dΒμV)	Margin (dB)	Result
0.163500	Live	39.7	65.3	25.6	Complied
0.168000	Live	39.4	65.1	25.7	Complied
1.464000	Neutral	30.5	56.0	25.5	Complied
1.635000	Live	31.9	56.0	24.1	Complied
1.882500	Live	35.0	56.0	21.0	Complied
1.963500	Neutral	35.5	56.0	20.5	Complied
2.094000	Neutral	34.5	56.0	21.5	Complied
2.404500	Neutral	29.1	56.0	26.9	Complied
3.651000	Neutral	30.0	56.0	26.0	Complied

Results: Average Detector Measurements

Frequency (MHz)	Line	Average Level (dBμV)	Limit (dBμV)	Margin (dB)	Result
1.801500	Live	22.5	46.0	23.5	Complied
1.873500	Live	22.8	46.0	23.2	Complied

Page 16 of 30 RFI Global Services Ltd

Transmitter AC Conducted Spurious Emissions (continued)



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

RFI Global Services Ltd Page 17 of 30

5.2.4. 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):	24
Relative Humidity (%):	31

Results: GSM

Channel	Frequency (MHz)	Antenna Polarity	EIRP (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	1850.2	Horizontal	29.7	33.0	3.3	Complied
Middle	1879.8	Horizontal	30.1	33.0	2.9	Complied
Тор	1909.8	Horizontal	28.6	33.0	3.4	Complied

Results: GPRS

Channel	Frequency (MHz)	Antenna Polarity	EIRP (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	1850.2	Horizontal	27.6	33.0	5.4	Complied
Middle	1879.8	Horizontal	28.3	33.0	4.7	Complied
Тор	1909.8	Horizontal	26.9	33.0	6.1	Complied

Page 18 of 30 RFI Global Services Ltd

5.2.5. Transmitter Conducted Average Output Power

Test Summary:

FCC Part:	2.1046
Test Method Used:	As detailed in ANSI TIA-603-C-2004 Section 2.2.1

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	31

Results: GSM

Channel	Frequency (MHz)	Conducted Average Output Power (dBm)
Bottom	1850.2	30.6
Middle	1879.8	29.4
Тор	1909.8	29.4

Results: GPRS

Channel	Frequency (MHz)	Conducted Average Output Power (dBm)
Bottom	1850.2	27.6
Middle	1879.8	27.3
Тор	1909.8	27.3

RFI Global Services Ltd Page 19 of 30

5.2.6. 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):	22
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	21	1850.200021	1850.0	0.200021	Complied
-20	-15	1850.199985	1850.0	0.199985	Complied
-10	11	1850.200011	1850.0	0.200011	Complied
0	-39	1850.199961	1850.0	0.199961	Complied
10	27	1850.200027	1850.0	0.200027	Complied
20	-33	1850.199967	1850.0	0.199967	Complied
30	-24	1850.199976	1850.0	0.199976	Complied
40	-17	1850.199983	1850.0	0.199983	Complied
50	-41	1850.199959	1850.0	0.199959	Complied

Results: Top Channel (1909.8 MHz)

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
-30	-11	1909.799989	1910.0	0.200011	Complied
-20	-16	1909.799984	1910.0	0.200016	Complied
-10	-49	1909.799951	1910.0	0.200049	Complied
0	-21	1909.799979	1910.0	0.200021	Complied
10	55	1909.800055	1910.0	0.199945	Complied
20	-15	1909.799985	1910.0	0.200015	Complied
30	-25	1909.799975	1910.0	0.200025	Complied
40	-18	1909.799982	1910.0	0.200018	Complied
50	-29	1909.799971	1910.0	0.200029	Complied

Page 20 of 30 RFI Global Services Ltd

5.2.7. 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):	22
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	-27	1850.199973	1850.0	0.199973	Complied
4.2	-33	1850.199967	1850.0	0.199967	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	-37	1909.799963	1910.0	0.200037	Complied
4.2	-20	1901.799980	1910.0	0.200020	Complied

RFI Global Services Ltd Page 21 of 30

5.2.8. 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:

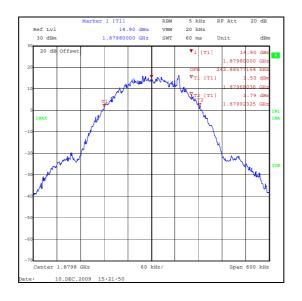
Temperature (°C):	25
Relative Humidity (%):	30

Results: GSM

Channel	Frequency (MHz)	Occupied Bandwidth (kHz)
Middle	1879.8	242.886

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.



Page 22 of 30 RFI Global Services Ltd

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:

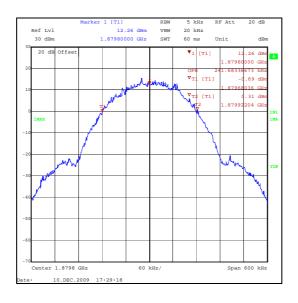
Temperature (°C):	25
Relative Humidity (%):	30

Results: GPRS

Channel	Frequency (MHz)	Occupied Bandwidth (kHz)
Middle	1879.8	241.683

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.



RFI Global Services Ltd Page 23 of 30

5.2.9. 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 (%):	28

Results:

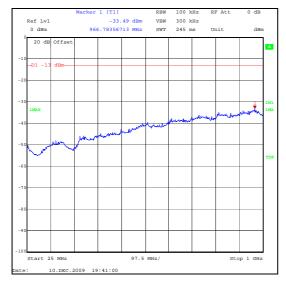
Frequency Peak Emission (MHz) Level (dBm)		Limit (dBm)	Margin (dB)	Result	
17779.058	-18.3	-13.0	5.3	Complied	

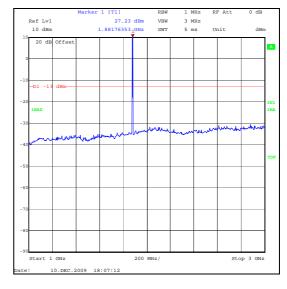
Note(s):

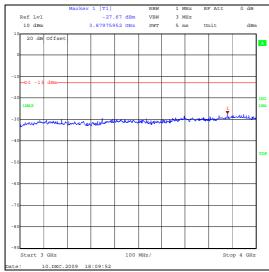
- 1. No spurious emissions were detected above the noise floor of the measuring receiver; the highest peak noise floor reading of the measuring receiver was recorded.
- 2. The transmitter fundamental is shown on the 1 GHz to 3 GHz plot at 1879.8 MHz

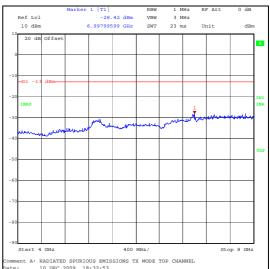
Page 24 of 30 RFI Global Services Ltd

Transmitter Out of Band Radiated Emissions (continued)



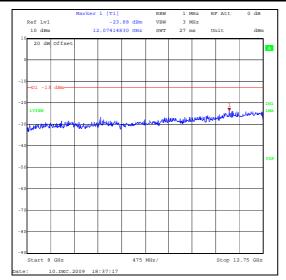


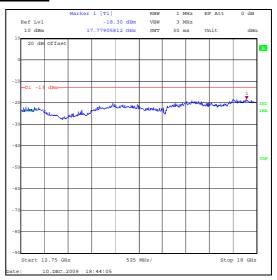


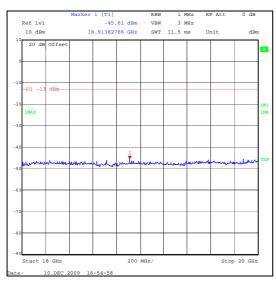


RFI Global Services Ltd Page 25 of 30

Transmitter Out of Band Radiated Emissions (continued)







Page 26 of 30 RFI Global Services Ltd

5.2.10. 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

Environmental Conditions:

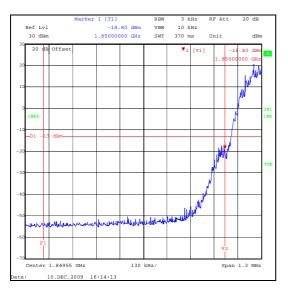
Temperature (°C):	25
Relative Humidity (%):	30

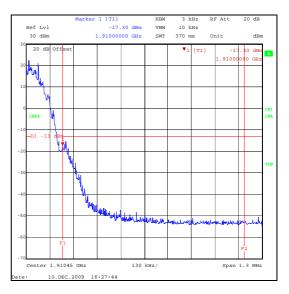
Results: GSM - Bottom Band Edge

Frequency	Peak Emission	Limit	Margin	Result
(MHz)	Level (dBm)	(dBm)	(dB)	
1850	-18.8	-13.0	5.8	Complied

Results: GSM - Top Band Edge

Frequency	Peak Emission	Limit	Margin	Result
(MHz)	Level (dBm)	(dBm)	(dB)	
1910	-17.3	-13.0	4.3	Complied





RFI Global Services Ltd Page 27 of 30

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

Environmental Conditions:

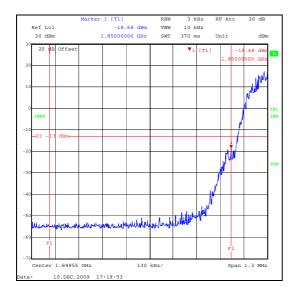
Temperature (°C):	25
Relative Humidity (%):	30

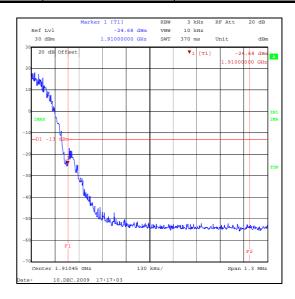
Results: GPRS - Bottom Band Edge

Frequency	Peak Emission	Limit	Margin	Result
(MHz)	Level (dBm)	(dBm)	(dB)	
1850	-18.7	-13.0	5.7	Complied

Results: GPRS - Top Band Edge

Frequency Peak Emission (MHz) Level (dBm)		Limit (dBm)	Margin (dB)	Result
1910	-24.7	-13.0	11.7	Complied





Page 28 of 30 RFI Global Services Ltd

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.

RFI Global Services Ltd Page 29 of 30

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A1393	Attenuator	Huber + Suhner	757456	6820.17.B	Calibrated before use	-
A1534	Pre Amplifier	Hewlett Packard	8449B OPT H02	3008A00405	Calibrated before use	-
A1818	Antenna	EMCO	3115	00075692	27 Nov 2009	12
A1830	Pulse Limiter	Rhode & Schwarz	ESH3-Z2	100668	05 Jan 2009	12
A1975	High Pass Filter	AtlanTecRF	AFH- 03000	090424010	Calibrated before use	-
A288	Antenna	Chase	CBL6111A	1589	13 Mar 2009	12
A436	Antenna	Flann	20240-20	330	24 Apr 2009	36
A649	LISN	Rohde & Schwarz	ESH3-Z5	825562/008	19 Mar 2009	12
E013	Environmental Chamber	Sanyo	ATMOS chamber	None	Calibrated before use	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	01 Sep 2009	12
L0990	Comms Test Set	R&S	CMU 200	S220447	18 Feb 2009	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESIB26	100046K	09 Mar 2009	12
M1068	Thermometer	Iso-tech	RS55	93102884	10 Oct 2009	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	22 Apr 2009	12
M1269	Multimeter	Fluke	179	90250210	23 Jun 2009	12
M1379	Test Receiver	Rohde & Schwarz	ESIB7	100330	20 Aug 2009	12
S021	DC Power Supply	Thurlby Thandar	CPX200	061034	Calibrated before use	-

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

Page 30 of 30 RFI Global Services Ltd