

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: NTT Docomo P-01A

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Test Report Serial No:
RFI/RPT2/RP73958JD03A

Supersedes Test Report Serial No:
RFI/RPT1/RP73958JD03A

**This Test Report Is Issued Under The Authority
Of Steve Flooks, Service Leader:**



Checked By: Steve Flooks	 Report Copy No: PDF01
Issue Date: 23 October 2008	Test Dates: 09 September 2008 to 19 September 2008

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Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

1. Customer Information

Company Name:	Panasonic Mobile Comms Dev of Europe Ltd
Address:	Panasonic House Willoughby Road Bracknell Berkshire RG12 8FP United Kingdom
Contact Name:	Mr M Hargreaves

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2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the customer:

2.1. Identification of Equipment Under Test (EUT)

Description:	Dual mode (W-CDMA FDDI/FDDV/ GSM900/1800/1900MHz) Cellular Mobile Telephone with RFID and Bluetooth (Radiated Sample)
Brand Name:	NTT Docomo
Model Name or Number:	P-01A
Serial Number or Unique Product Identifier:	359946010018134
FCC ID Number:	UCE208009A

Description:	FOMA USB Cable with Charge Function 01
Model Name or Number:	NTT docomo
Serial Number:	Not marked or stated
Cable Length and Type:	1.1 m USB
Connected to Port:	USB

Description:	FOMA AC Adapter 01
Brand Name:	NTT docomo
Model Name or Number:	MAS-BH0008-A 002
Serial Number:	AC Charger #01
Cable Length and Type:	2.23 m / multicore
Connected to Port:	Charger

Description:	Battery
Brand Name:	NTT
Serial Number:	P19

Description:	Flat-plug Stereo Earphone Set P01
Brand Name:	NTT docomo
Model Name or Number:	P01
Cable Length and Type:	1.8m / multi-core
Connected to Port:	AV Out port

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Description:	DC Charger Cable
Model Name or Number:	FOMA DC Adapter 02
Cable Length and Type:	>2m extended.
Connected to Port:	Charger

Description:	Micro-SD Memory Card
Brand Name:	Panasonic
Connected to Port:	Dedicated micro-SD card port

2.2. Description of EUT

The equipment under test was a Cellular Mobile Telephone.

2.3. Modifications Incorporated in EUT

During the course of testing the EUT was not modified.

2.4. Support Equipment

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

Description:	Laptop PC
Model Name or Number:	SONY Vaio PCG-VX7/BD
Cable Length and Type:	Not Applicable
Connected to Port:	USB

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2.5. Additional Information Related to Testing

Power Supply Requirement:	Internal Battery 3.7V	
Intended Operating Environment:	Residential/Commercial	
Equipment Category:	Bluetooth, GSM/GPRS/UMTS, RFID	
Type of Unit:	Portable Transceiver	
Modulation Types:		
PCS 1900 CS (Voice)	UL:	GMSK
	DL:	GMSK
PCS 1900 GPRS	UL:	GMSK
	DL:	GMSK
UMTS Band V	UL:	BPSK + HPSK
	DL:	QPSK + QPSK
UMTS Band V HSDPA	UL:	BPSK + HPSK
	DL:	QPSK or 16QAM + QPSK

FCC Part 22

Transmit Frequency Range:	824 MHz to 849 MHz (uplink)		
Channel Spacing:	200 kHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	4132	826.4
	Middle	4182	836.4
	Top	4233	846.6
Receive Frequency Range:	869 MHz to 894 MHz (downlink)		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	4357	871.4
	Middle	4407	881.4
	Top	4458	891.6
Maximum Power Output (ERP):	25.4 dBm		

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Transmit Frequency Range:	1850 MHz to 1910 MHz		
Channel Spacing:	200 kHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	512	1850.2
	Middle	660	1879.8
	Top	810	1909.8
Receive Frequency Range:	1930 MHz to 1990 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	512	1850.2
	Middle	660	1879.8
	Top	810	1909.8
Maximum Power Output (EIRP):	31.8 dBm		

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3. Test Specification, Methods and Procedures

Reference:	FCC Part 22: 2007 Subpart H (Cellular Radiotelephone Service)
Title:	Code of Federal Regulations, Part 22 (47CFR22) Personal Communication Services.

Reference:	FCC Part 24: 2007 Subpart E (Broadband PCS)
Title:	Code of Federal Regulations, Part 24 (47CFR24) Personal Communication Services.

3.1. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI/TIA-603-B-2003

Land Mobile Communications Equipment, Measurements and performance Standards

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

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.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

3.2. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures Section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations from the Test Specification

There were no deviations from the test specification.

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5. Operation of the EUT during Testing

5.1. Operating Modes

FCC Part 22

The EUT was tested in the following operating modes, unless otherwise stated:

- UMTS Band V (Voice/RMC 12.2kbps)
- UMTS Band V HSDPA (Set 1 to 4)
- Receiver\Idle Modes: Testing was performed with call terminated from the UMTS test simulator and the phone left in its idle mode.

FCC Part 24

The EUT was tested in the following operating modes, unless otherwise stated:

- PCS 1900 CS (Voice)
- PCS 1900 GPRS
- Idle Modes: Testing was performed with call terminated from the GSM test simulator and the phone left in its idle mode.

5.2. Configuration and Peripherals

FCC Part 22/24

The EUT was tested in the following configuration unless otherwise stated:

- For Transmit tests: Standalone, connected via an air link to a test set.
- Receiver\Idle mode tests: Standalone, with the GSM/UMTS module active but not transmitting.
- The personal hands free kit was connected and bundled in the middle so as to ensure a maximum length no longer than 1 meter and ensuring a clearance from the ground plane of 0.4 meters or more.

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5.3. Summary of Test Results

FCC Part 22

Range of Measurements	FCC Reference	Port Type	Result
Receiver/Idle AC Conducted Spurious Emissions (150 kHz to 30 MHz)	15.107	AC Mains Input	Complied
Receiver/Idle Radiated Emissions	15.109	Enclosure	Complied
Transmitter Effective Radiated Power (ERP)	22.913(a)	Antenna	Complied
Transmitter Frequency Stability (Temperature Variation)	22.355	Antenna Terminals	Complied
Transmitter Frequency Stability (Voltage Variation)	22.355	Antenna Terminals	Complied
Transmitter Occupied Bandwidth	2.1049	Antenna Terminals	Complied
Transmitter Out of Band Radiated Emissions	2.1053/22.917	Antenna	Complied
Transmitter Band Edge Radiated Emissions	2.1053/22.917	Antenna	Complied

FCC Part 24

Range of Measurements	FCC Reference	Port Type	Result
Idle Mode AC Conducted Spurious Emissions (150 kHz to 30 MHz)	15.107	AC Mains Input	Complied
Idle Mode Radiated Spurious Emissions	15.109	Enclosure	Complied
Transmitter Effective Isotropic Radiated Power (EIRP)	24.232	Antenna	Complied
Transmitter Frequency Stability (Temperature Variation)	24.235	Antenna Terminals	Complied
Transmitter Frequency Stability (Voltage Variation)	24.235	Antenna Terminals	Complied
Transmitter Occupied Bandwidth	24.238	Antenna Terminals	Complied
Transmitter Out of Band Radiated Emissions	2.1053/24.238	Antenna	Complied
Transmitter Band Edge Radiated Emissions	2.1053/24.238	Antenna	Complied

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5.4. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH.

5.5. Site Registration Number

- FCC: 90895

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6. Measurements, Examinations and Derived Results

6.1. General Comments

This Section contains test results only.

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 8 for details of measurement uncertainties.

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6.2. Test Results – FCC Part 22 (Subpart H)

6.2.1. Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107

Ambient Temperature: 26°C Relative Humidity: 42%

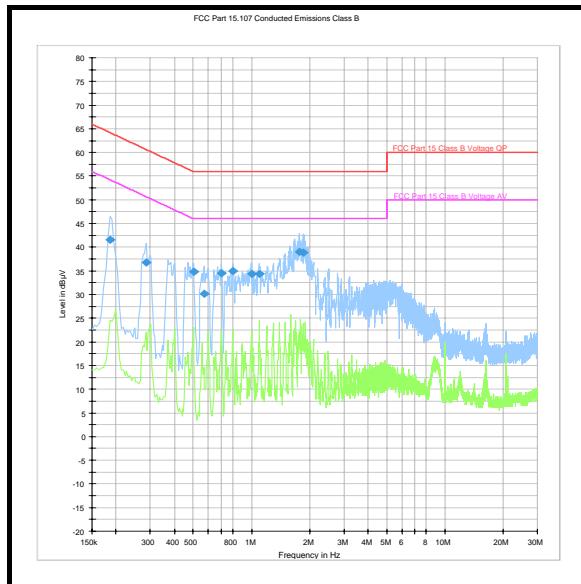
Tests were performed using the test methods detailed in ANSI C63.4 Section 7.

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.186000	Live	41.5	64.2	22.7	Complied
0.285000	Live	36.8	60.7	23.9	Complied
0.501000	Live	34.8	56.0	21.2	Complied
0.568500	Live	30.2	56.0	25.8	Complied
0.699000	Live	34.6	56.0	21.4	Complied
0.798000	Live	35.0	56.0	21.0	Complied
1.000500	Live	34.3	56.0	21.7	Complied
1.099500	Live	34.4	56.0	21.6	Complied
1.761000	Live	39.0	56.0	17.0	Complied
1.851000	Live	38.8	56.0	17.2	Complied

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Receiver/Idle Mode AC Conducted Spurious Emissions: Section 15.107 (Continued)



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

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6.2.2. Receiver/Idle Mode Radiated Emissions - Section 15.109

Ambient Temperature: 23°C Relative Humidity: 48%

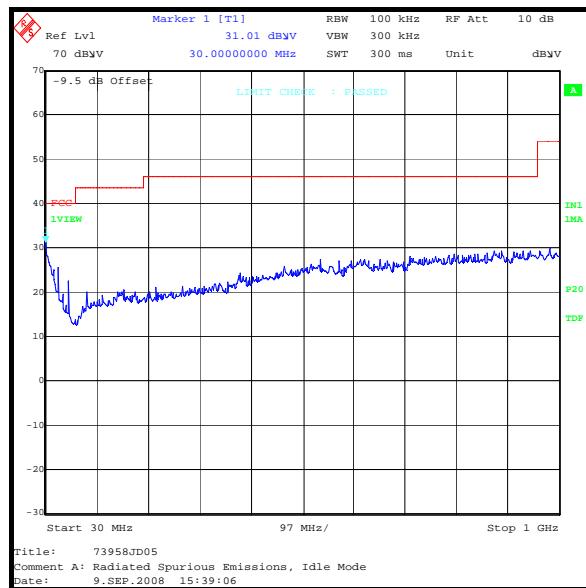
Tests were performed using the test methods detailed in ANSI C63.4 Section 8.

Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)

Frequency (MHz)	Antenna Polarity	Quasi Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
30.00000	Horizontal	31.0	40.0	9.0	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.

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

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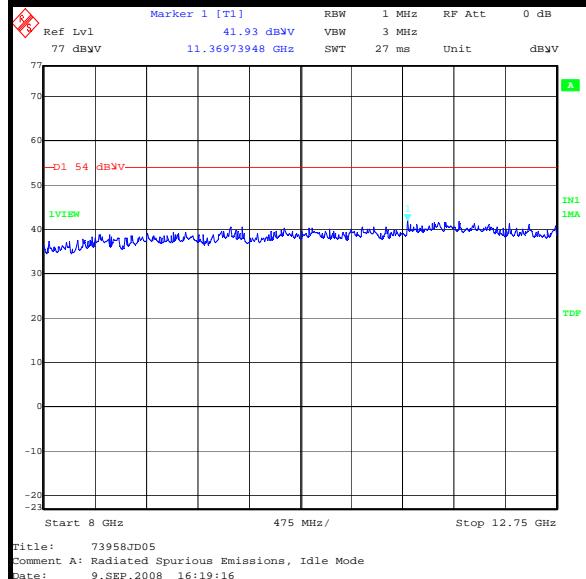
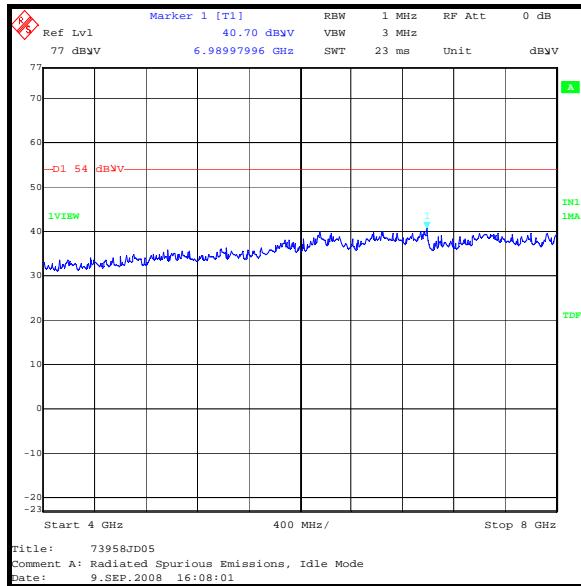
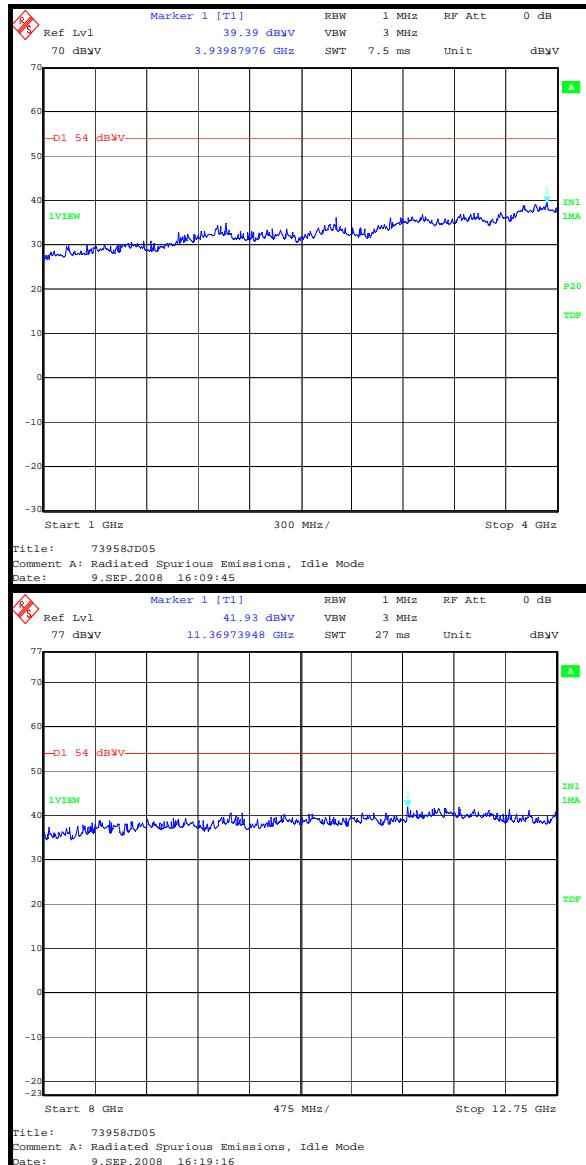
6.2.3. Receiver/Idle Mode Radiated Emissions - Section 15.109 (Continued)**Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz)****Peak Level**

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
6.989980	Horizontal	22.2	18.5	40.7	*54.0	13.3	Complied

**Note: 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.*

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Receiver/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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6.2.4. Transmitter Effective Radiated Power (ERP): Section 22.913(a)

Ambient Temperature: 24°C Relative Humidity: 45%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Mode	Channel	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Result
Voice/RMC	4132	826.4	23.8	38.4	14.6	Complied
Voice/RMC	4183	836.4	25.1	38.4	13.3	Complied
Voice/RMC	4233	846.6	25.4	38.4	13.0	Complied
HSDPA Set 1	4132	826.4	23.8	38.4	14.6	Complied
HSDPA Set 1	4183	836.4	25.2	38.4	13.2	Complied
HSDPA Set 1	4233	846.6	25.4	38.4	13.0	Complied
HSDPA Set 2	4132	826.4	23.0	38.4	15.4	Complied
HSDPA Set 2	4183	836.4	24.4	38.4	14.0	Complied
HSDPA Set 2	4233	846.6	24.8	38.4	13.6	Complied
HSDPA Set 3	4132	826.4	22.9	38.4	15.5	Complied
HSDPA Set 3	4183	836.4	24.2	38.4	14.2	Complied
HSDPA Set 3	4233	846.6	24.8	38.4	13.6	Complied
HSDPA Set 4	4132	826.4	22.0	38.4	16.4	Complied
HSDPA Set 4	4183	836.4	23.4	38.4	15.0	Complied
HSDPA Set 4	4233	846.6	23.9	38.4	14.5	Complied

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6.2.5. Transmitter Conducted Power

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Mode	Channel	Frequency (MHz)	Power (dBm)
Voice/RMC	4132	826.4	22.4
Voice/RMC	4183	836.4	22.4
Voice/RMC	4233	846.6	22.3
HSDPA Set 1	4132	826.4	22.4
HSDPA Set 1	4183	836.4	22.5
HSDPA Set 1	4233	846.6	22.4
HSDPA Set 2	4132	826.4	21.6
HSDPA Set 2	4183	836.4	21.7
HSDPA Set 2	4233	846.6	21.8
HSDPA Set 3	4132	826.4	21.5
HSDPA Set 3	4183	836.4	21.6
HSDPA Set 3	4233	846.6	21.8
HSDPA Set 4	4132	826.4	20.6
HSDPA Set 4	4183	836.4	20.7
HSDPA Set 4	4233	846.6	20.8

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6.2.6. Transmitter Frequency Stability (Temperature Variation): Section 22.355

Ambient Temperature: 24°C Relative Humidity: 42%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Bottom Channel (824.2 MHz)

Temperature (°C)	Measured Frequency (MHz)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Margin (ppm)	Result
-30	826.400033	33	0.04	2.5	2.46	Complied
-20	826.400024	24	0.03	2.5	2.47	Complied
-10	826.400036	36	0.04	2.5	2.46	Complied
0	826.400016	16	0.02	2.5	2.48	Complied
10	826.399973	-27	-0.03	2.5	2.47	Complied
20	826.399980	-20	-0.02	2.5	2.48	Complied
30	826.399984	-16	-0.02	2.5	2.48	Complied
40	826.399980	-20	-0.02	2.5	2.48	Complied
50	826.400077	-23	-0.03	2.5	2.47	Complied

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Transmitter Frequency Stability (Temperature Variation): Section 22.355 (Continued)

Top Channel (848.8 MHz)

Temperature (°C)	Measured Frequency (MHz)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Margin (ppm)	Result
-30	846.600037	37	0.04	2.5	2.46	Complied
-20	846.600022	22	0.03	2.5	2.47	Complied
-10	846.600038	38	0.04	2.5	2.46	Complied
0	846.600020	20	0.02	2.5	2.48	Complied
10	846.599982	-18	-0.02	2.5	2.48	Complied
20	846.599982	-18	-0.02	2.5	2.48	Complied
30	846.599988	-12	-0.01	2.5	2.49	Complied
40	846.599982	-18	-0.02	2.5	2.48	Complied
50	846.599973	-27	-0.03	2.5	2.47	Complied

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6.2.7. Transmitter Frequency Stability (Voltage Variation): Section 22.355

Ambient Temperature: 24°C Relative Humidity: 42%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Bottom Channel (824.2 MHz)

Supply Voltage (V)	Measured Frequency (MHz)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Margin (ppm)	Result
3.4	826.399980	-20	-0.02	2.5	2.48	Complied
4.2	826.399991	-9	-0.01	2.5	2.49	Complied

Top Channel (848.8 MHz)

Supply Voltage (V)	Measured Frequency (MHz)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	Margin (ppm)	Result
3.4	846.599982	-18	-0.02	2.5	2.48	Complied
4.2	846.599985	-15	-0.02	2.5	2.48	Complied

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6.2.8. Transmitter Occupied Bandwidth: Section 2.1049

Ambient Temperature: 25°C

Relative Humidity: 43%

The 99% occupied bandwidth was measured using the channel bandwidth function of the R&S spectrum analyser referencing FCC CFR Part 2.

RMC/Voice

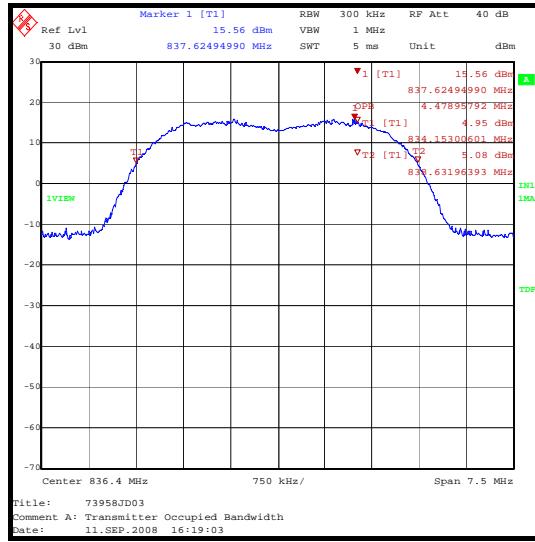
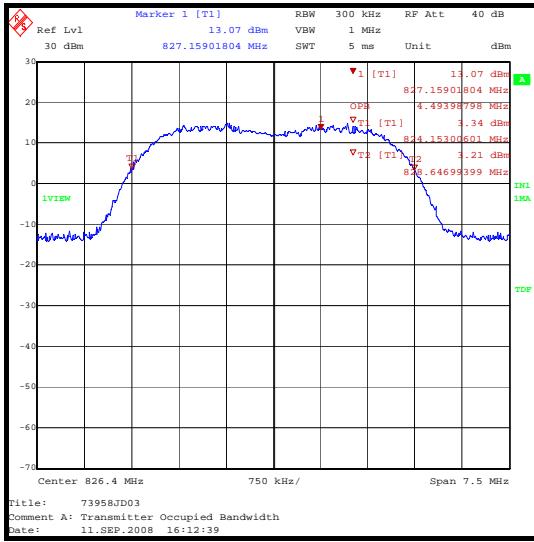
Mode	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
RMC/Voice	Bottom	824.2	3.0	10.0	4493.988
	Middle	836.6	3.0	10.0	4478.958
	Top	848.8	3.0	10.0	4463.928

HSDPA

HSDPA Set	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
1	Bottom	826.4	100.0	300.0	4328.657
1	Middle	836.4	100.0	300.0	4298.597
1	Top	846.6	100.0	300.0	4298.597
2	Bottom	826.4	100.0	300.0	4328.657
2	Middle	836.4	100.0	300.0	4328.657
2	Top	846.6	100.0	300.0	4328.657
3	Bottom	826.4	100.0	300.0	4298.587
3	Middle	836.4	100.0	300.0	4298.587
3	Top	846.6	100.0	300.0	4298.587
4	Bottom	826.4	100.0	300.0	4358.717
4	Middle	836.4	100.0	300.0	4298.597
4	Top	846.6	100.0	300.0	4328.657

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Transmitter Occupied Bandwidth (Continued)



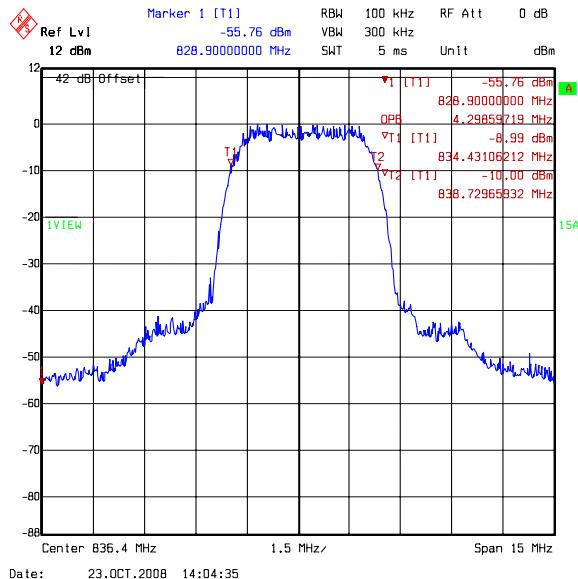
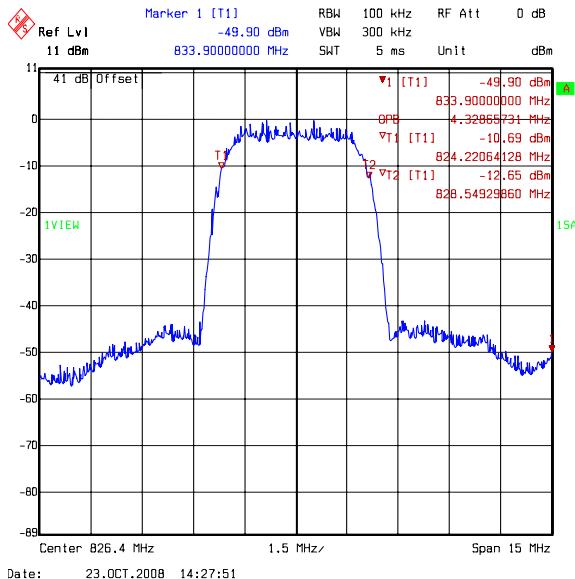
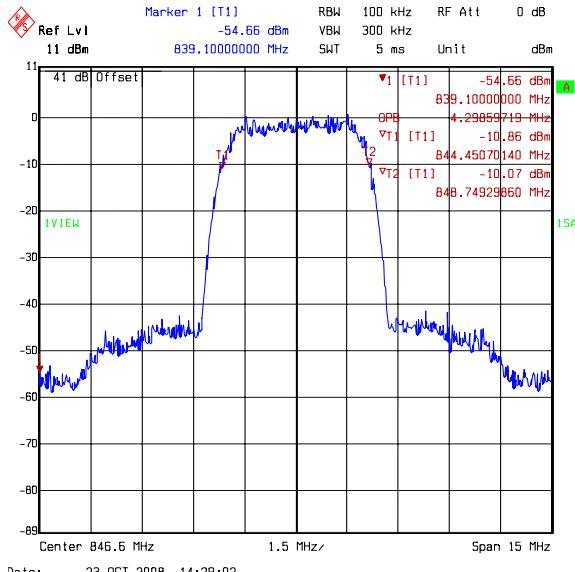
Transmitter Occupied Bandwidth, Bottom Channel



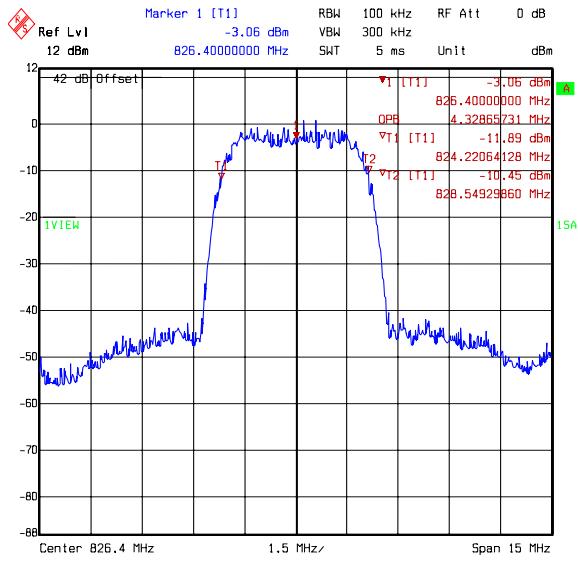
Transmitter Occupied Bandwidth, Middle Channel

Transmitter Occupied Bandwidth, Top Channel

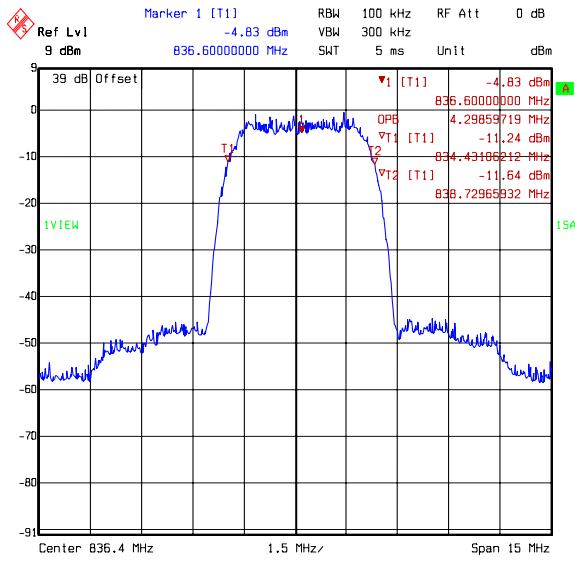
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

HSDPA Set 1**Transmitter Occupied Bandwidth, Bottom Channel****Transmitter Occupied Bandwidth, Middle Channel****Transmitter Occupied Bandwidth, Top Channel**

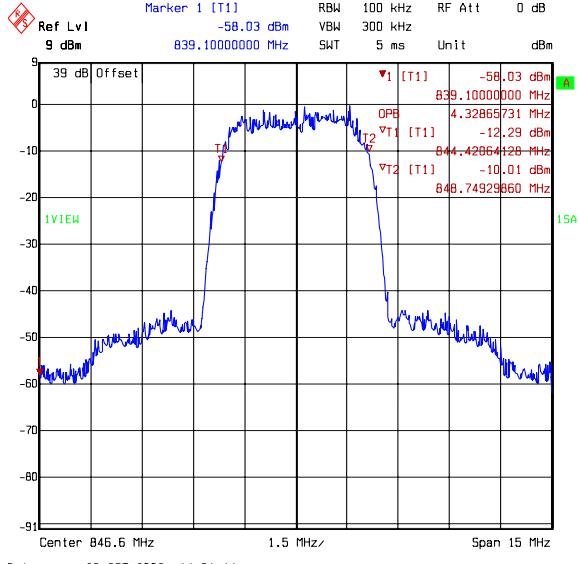
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

HSDPA Set 2

Date: 23.OCT.2008 14:35:00



Date: 23.OCT.2008 14:33:33

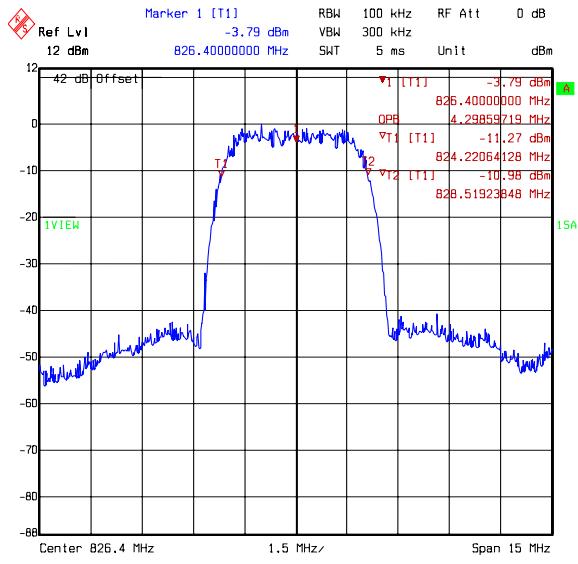
Transmitter Occupied Bandwidth, Bottom Channel

Date: 23.OCT.2008 14:31:14

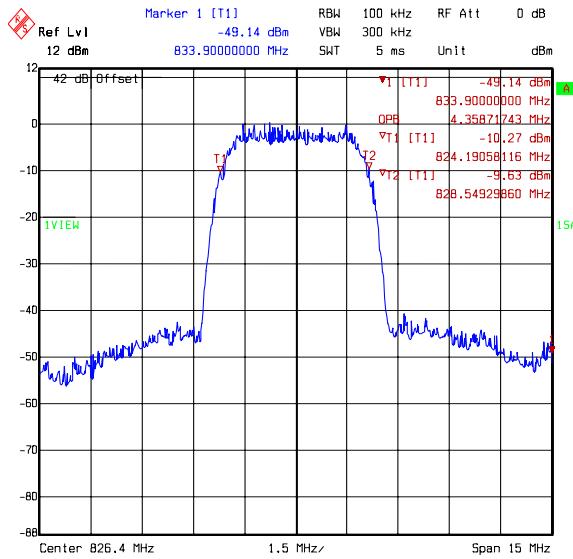
Transmitter Occupied Bandwidth, Middle Channel

Date: 23.OCT.2008 14:31:14

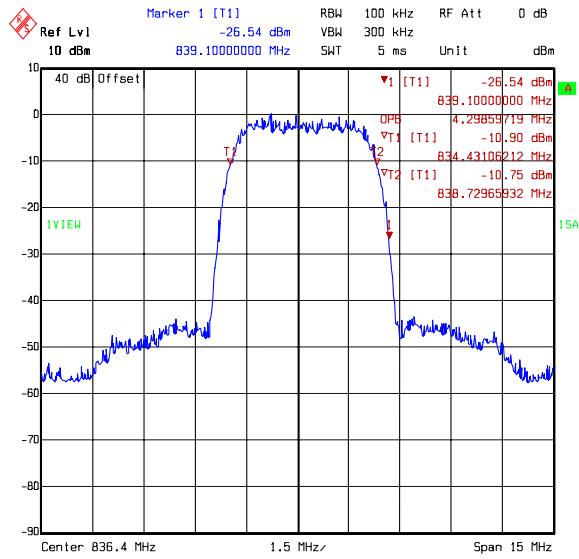
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

HSDPA Set 3

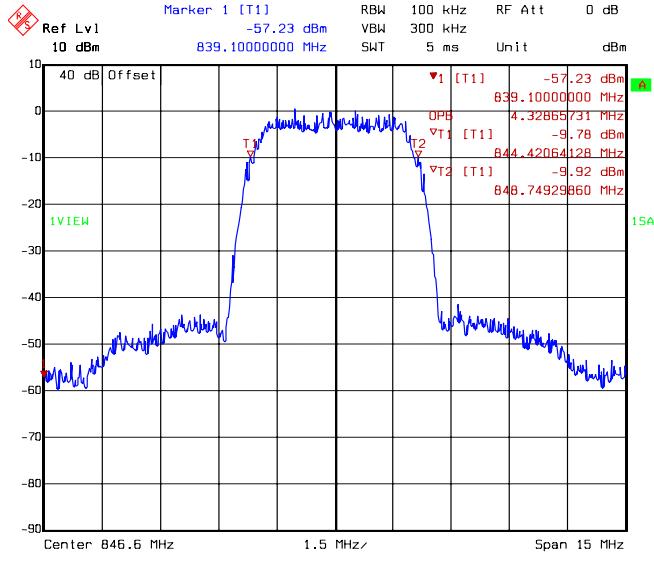
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

HSDPA Set 4

Date: 23.OCT.2008 14:42:05



Date: 23.OCT.2008 14:40:53

Transmitter Occupied Bandwidth, Bottom Channel

Date: 23.OCT.2008 14:39:42

Transmitter Occupied Bandwidth, Middle Channel

Date: 23.OCT.2008 14:40:53

Transmitter Occupied Bandwidth, Top Channel

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.2.9. Transmitter Out of Band Radiated Emissions

Ambient Temperature: 24°C Relative Humidity: 45%

Relative Humidity: 45%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

All Channels

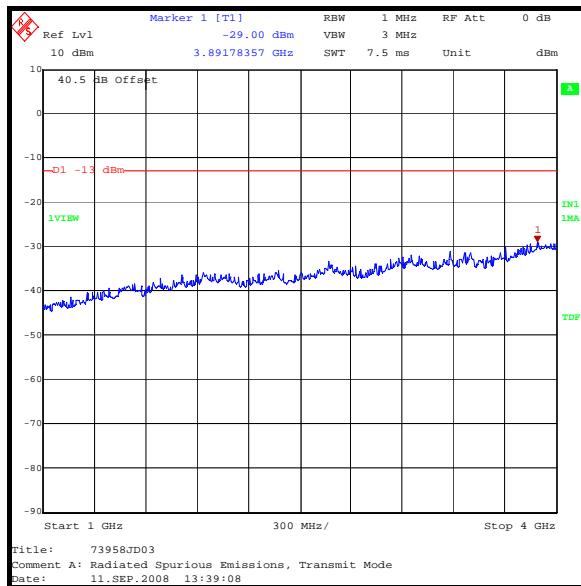
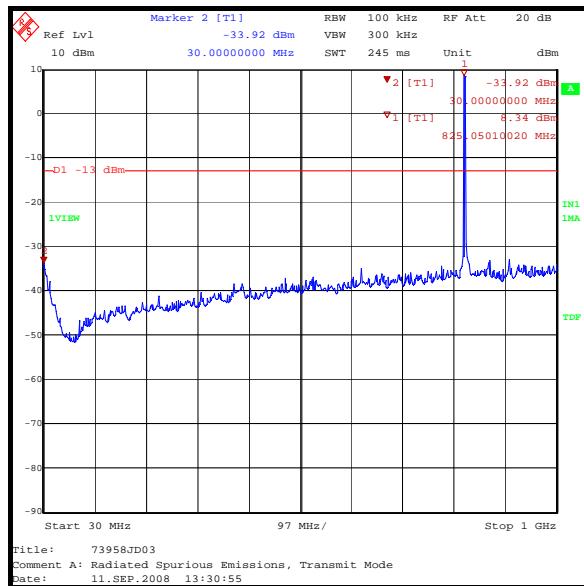
Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
11950.401	-29.1	-13.0	16.1	Complied

Note(s):

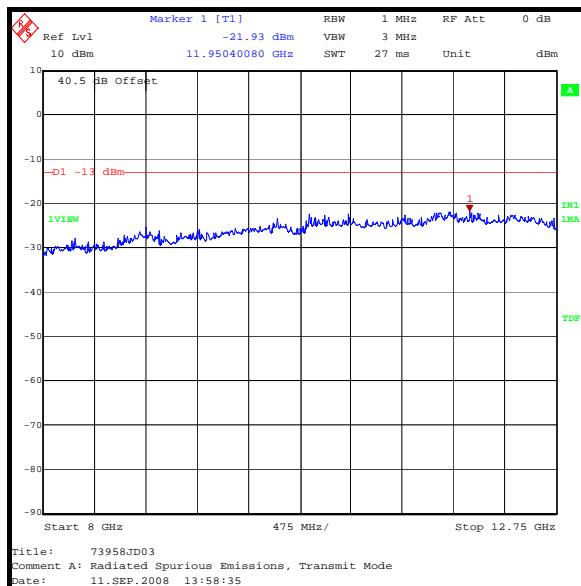
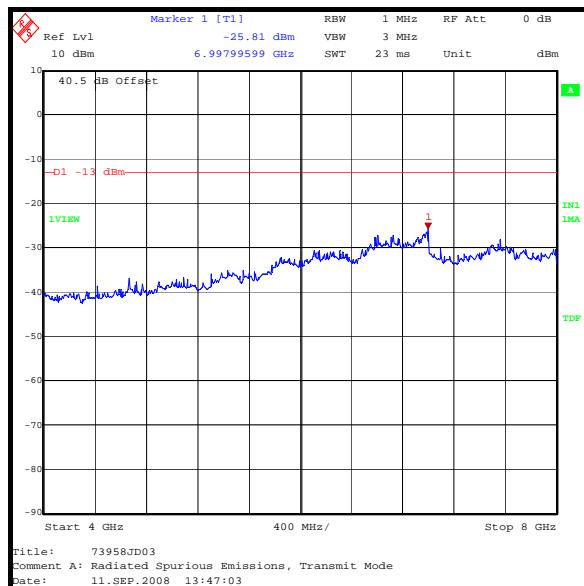
1. No emissions were found above the analyser noise floor therefore the highest peak noise floor was measured and compared against the limit to show compliance.

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Transmitter Out of Band Radiated Emissions (Continued)



Note the carrier is shown on the above plot.



Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.2.10. Transmitter Radiated Emissions at Band Edges: Section 2.1053 & 22.917

Ambient Temperature: 24°C Relative Humidity: 45%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Parts 2 and 22.917.

Integrated Power Over 1 MHz Strip Band: 821 to 823 MHz

1st and 2nd 1 MHz blocks immediately below adjacent frequency block

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
821 to 822	-19.9	-13.0	6.6	Complied
822 to 823	-20.0	-13.0	6.7	Complied

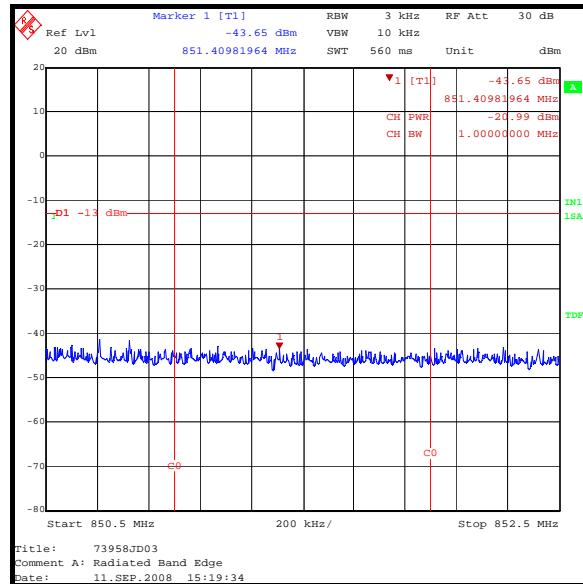
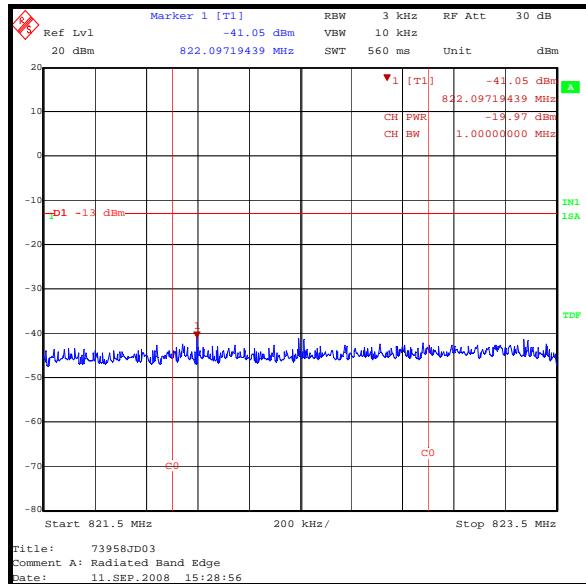
Integrated Power Over 1 MHz Strip Band: 851 to 853 MHz

1st and 2nd 1 MHz blocks immediately above adjacent frequency block

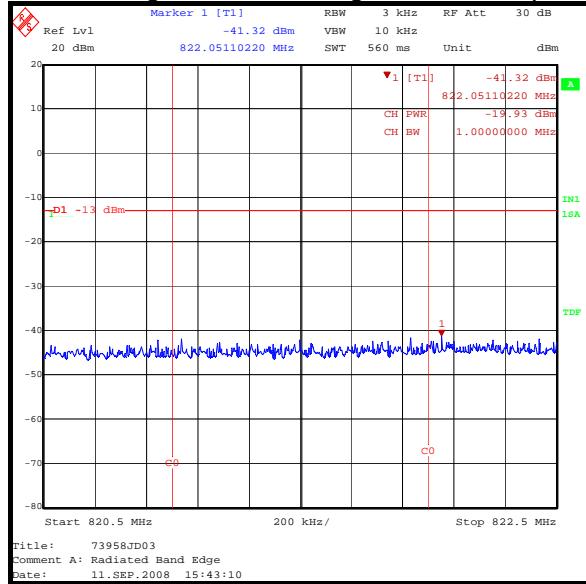
Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
851 to 852	-21.0	-13.0	8.0	Complied
852 to 853	-22.3	-13.0	8.7	Complied

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Transmitter Radiated Emissions at Band Edges: Section 2.1053 & 22.917 - Continued

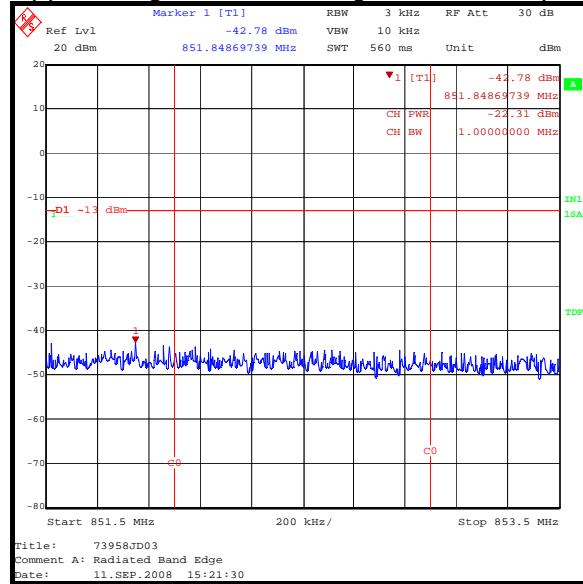


Lower Integrated Band Edge -1 MHz strip



Lower Integrated Band Edge -2 MHz strip

Upper Integrated Band Edge +1 MHz strip



Upper Integrated Band Edge +2 MHz strip

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

6.2.11. Transmitter Radiated Emissions at Band Edge: Section 2.1053/22.917

Ambient Temperature: 24°C

Relative Humidity: 45%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Parts 2 and 24.238.

The band edge level was reported by using the analyser channel power function to measure the total power within 100 kHz bandwidth at the EUT band edges for each mode of operation. The channel bandwidth function integrates across the chosen band (100 kHz) using a reduced resolution bandwidth to give the corrected power as if it had been measured within a 100 kHz bandwidth but has the benefit of removing bandwidth errors.

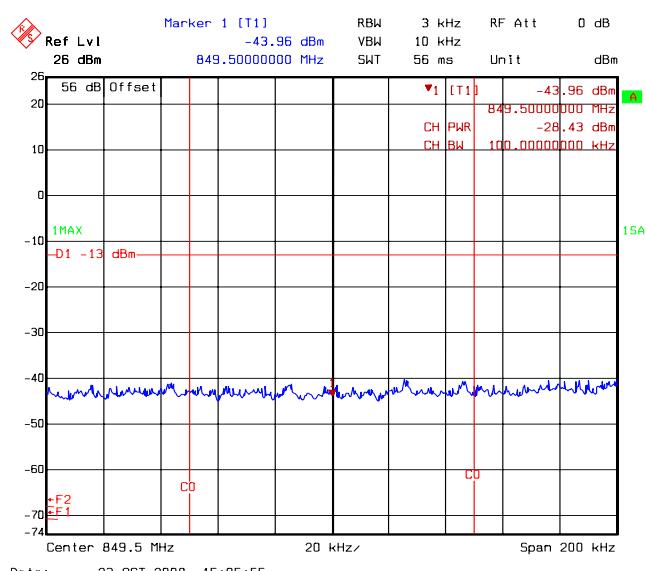
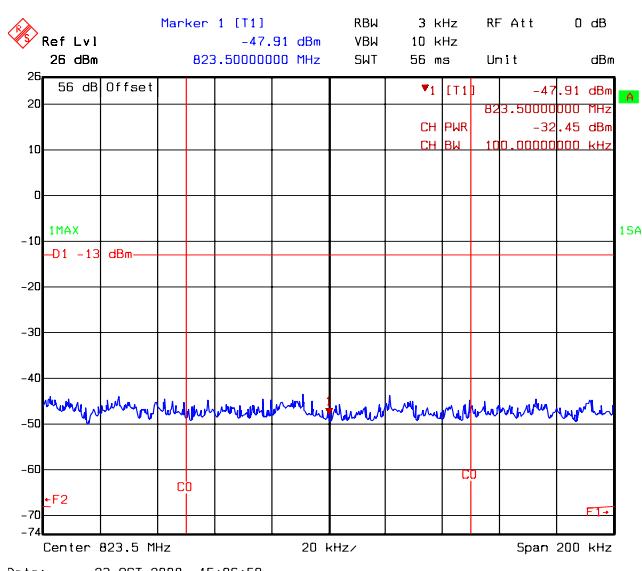
Results: RMC/Voice

Bottom Band Edge

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
824	-32.5	-13.0	19.5	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
849	-28.4	-13.0	15.4	Complied



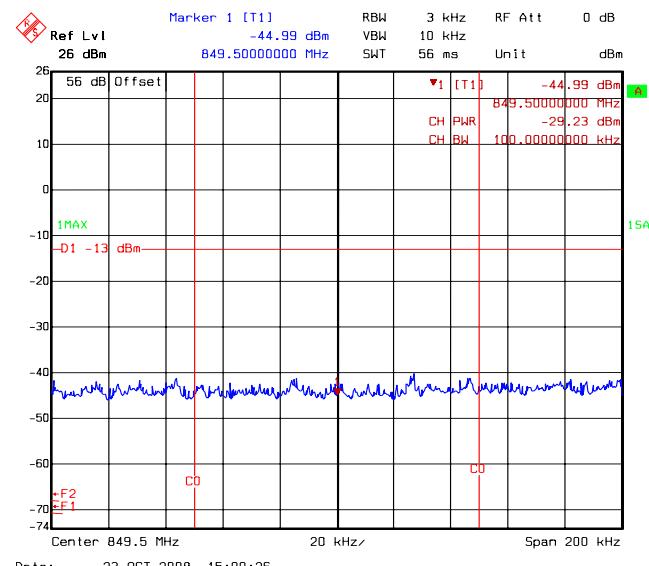
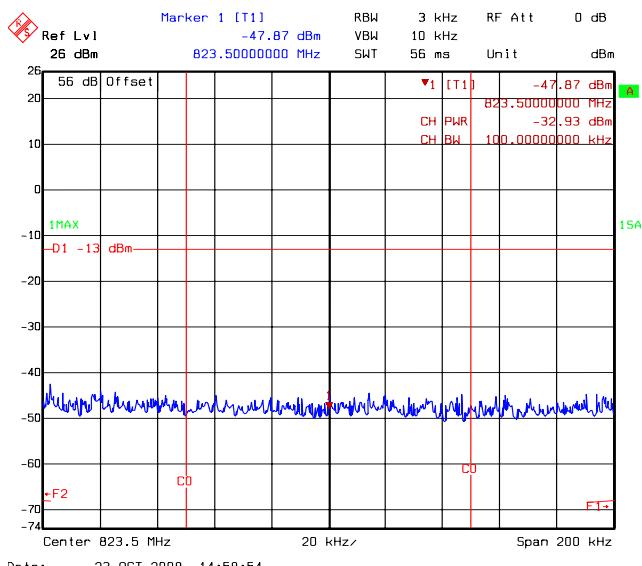
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Results: HSDPA Set 1**Bottom Band Edge**

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
824	-33.0	-13.0	20.0	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
849	-29.2	-13.0	16.2	Complied

**Lower Band Edge****Upper Band Edge**

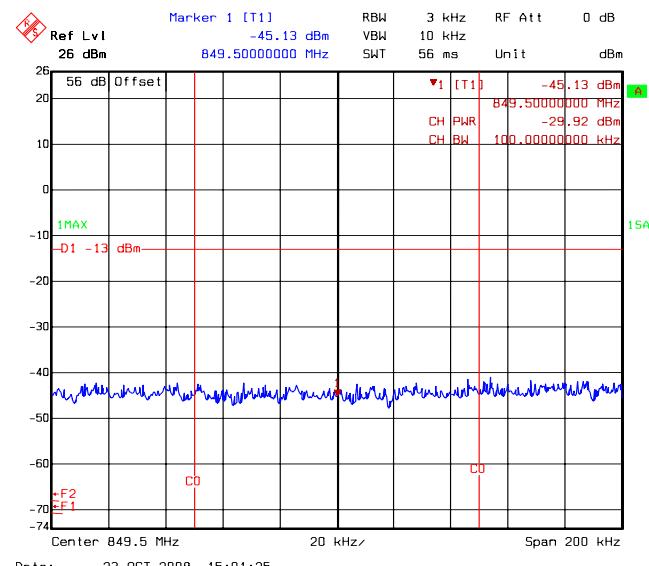
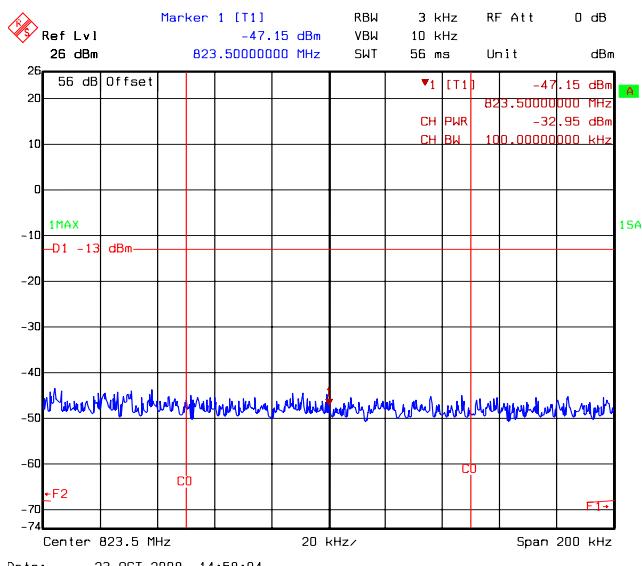
Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

Results: HSDPA Set 2**Bottom Band Edge**

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
824	-33.0	-13.0	20.0	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
849	-29.9	-13.0	16.9	Complied

**Lower Band Edge****Upper Band Edge**

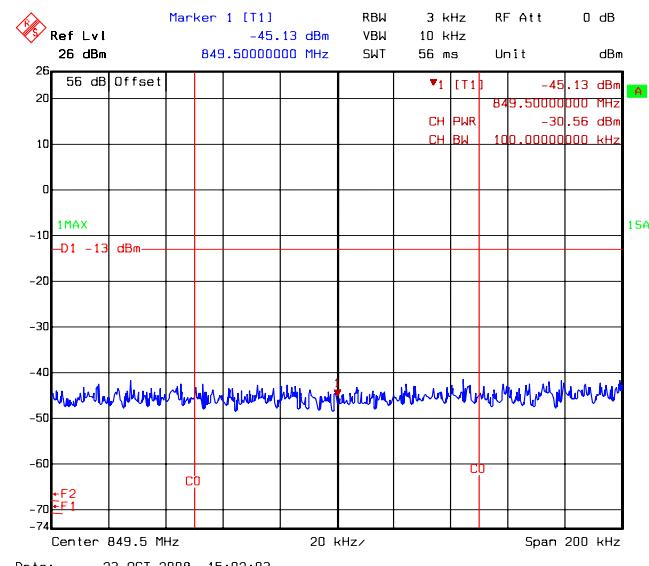
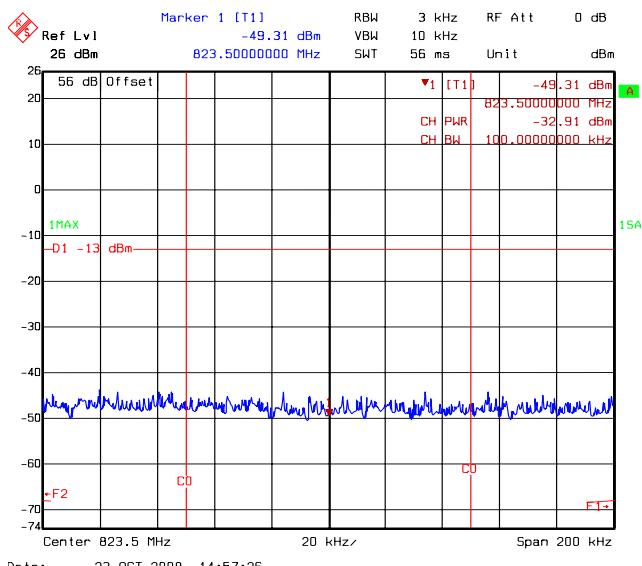
Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

Results: HSDPA Set 3**Bottom Band Edge**

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
824	-32.9	-13.0	19.9	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
849	-30.6	-13.0	17.6	Complied

**Lower Band Edge****Upper Band Edge**

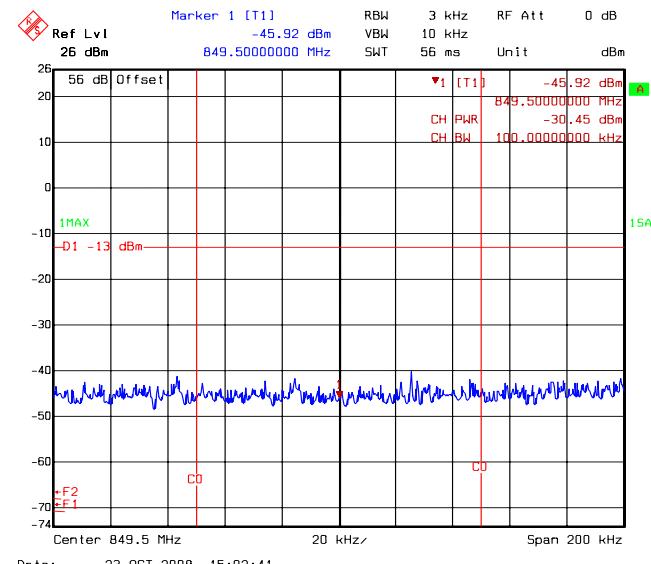
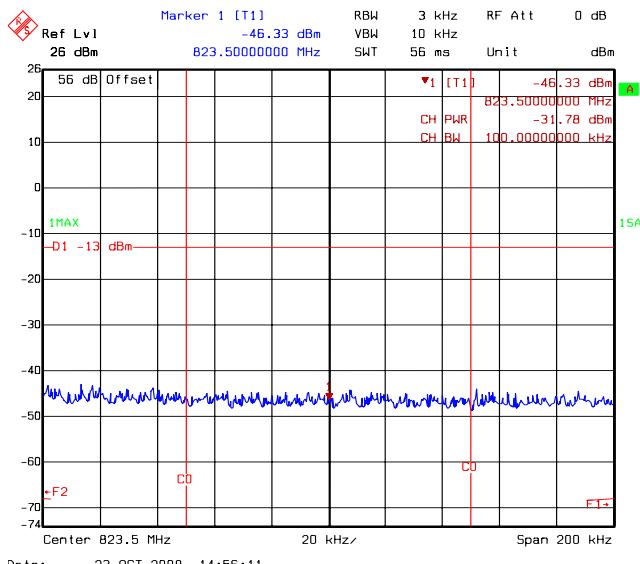
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Results: HSDPA Set 4**Bottom Band Edge**

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
824	-31.5	-13.0	18.5	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
849	-30	-13.0	17.0	Complied

**Lower Band Edge****Upper Band Edge**

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3. Test Results – FCC Part 24 (Subpart E)

6.3.1. Idle Mode AC Conducted Spurious Emissions: Section 15.107

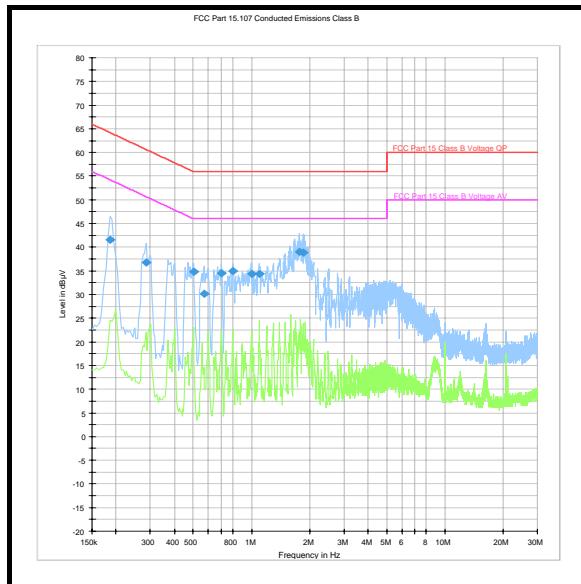
Ambient Temperature: 24°C Relative Humidity: 40%

Tests were performed using the test methods detailed in ANSI C63.4 Section 7.

Quasi-Peak Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.186000	Ground	41.5	64.2	22.7	Complied
0.285000	Ground	36.8	60.7	23.9	Complied
0.501000	Ground	34.8	56.0	21.2	Complied
0.568500	Ground	30.2	56.0	25.8	Complied
0.699000	Ground	34.6	56.0	21.4	Complied
0.798000	Ground	35.0	56.0	21.0	Complied
1.000500	Ground	34.3	56.0	21.7	Complied
1.099500	Ground	34.4	56.0	21.6	Complied
1.761000	Ground	39.0	56.0	17.0	Complied
1.851000	Ground	38.8	56.0	17.2	Complied

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

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.

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

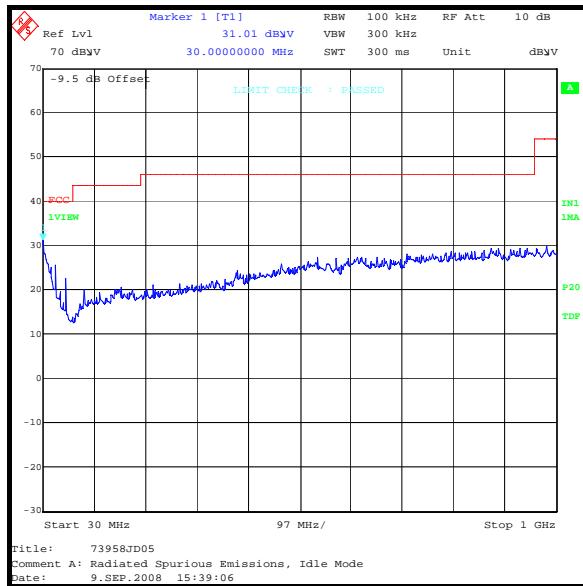
6.3.2. Idle Mode Radiated Spurious Emissions: Section 15.109

Ambient Temperature: 23°C Relative Humidity: 48%

Tests were performed using the test methods detailed in ANSI C63.4 Section 8.

Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)

Frequency (MHz)	Antenna Polarity	Quasi Peak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
30.00000	Horizontal	31.0	40.0	9.0	Complied

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)Idle Radiated Spurious Emissions (Continued)

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

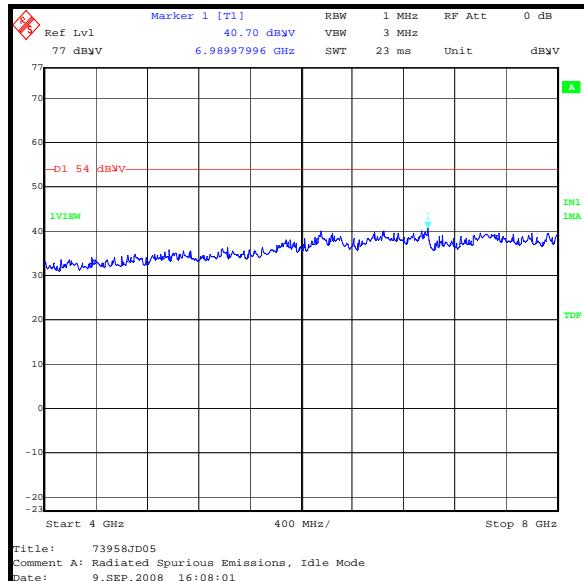
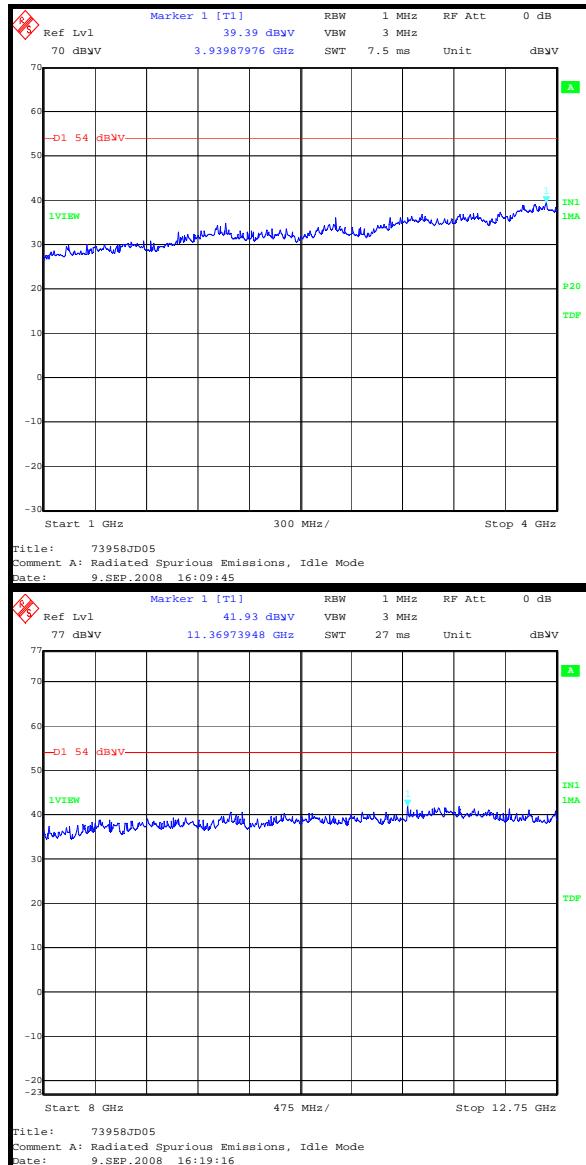
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**6.3.3. Idle Radiated Spurious Emissions: Section 15.109 (Continued)****Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz)****Peak Level:**

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
11.369739	Horizontal	16.3	25.6	41.9	*54.0	12.1	Complied

**Note: 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.*

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Idle Radiated Spurious Emissions (Continued)



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

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3.4. Transmitter Effective Isotropic Radiated Power (EIRP): Section 24.232

Ambient Temperature: 24°C Relative Humidity: 48%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Mode	Channel	Measured Frequency (MHz)	Antenna Polarity	Maximum Transmitter EIRP (dBm)	Limit EIRP (dBm)	Margin (dB)	Result
Voice	512	1850.2	Vertical	30.3	33.0	2.7	Complied
Voice	660	1879.8	Vertical	31.5	33.0	1.5	Complied
Voice	810	1909.8	Vertical	31.8	33.0	1.2	Complied
GRPS	512	1850.2	Vertical	30.3	33.0	2.7	Complied
GRPS	660	1879.8	Vertical	31.5	33.0	1.5	Complied
GRPS	810	1909.8	Vertical	31.8	33.0	1.2	Complied

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

6.3.5. Transmitter Conducted Power

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Mode	Channel	Measured Frequency (MHz)	Power (dBm)
Voice	512	1850.2	28.65
Voice	660	1879.8	28.75
Voice	810	1909.8	29.05
GPRS	512	1850.2	28.65
GPRS	660	1879.8	28.75
GPRS	810	1909.8	29.05

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

6.3.6. Transmitter Frequency Stability (Temperature Variation): Section 24.235

Ambient Temperature: 24°C Relative Humidity: 48%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Bottom Channel (1850.2 MHz)

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
-30	41	1850.200041	1850.0	0.200041	Complied
-20	40	1850.200040	1850.0	0.200040	Complied
-10	31	1850.200031	1850.0	0.200031	Complied
0	11	1850.200011	1850.0	0.200011	Complied
10	22	1850.200022	1850.0	0.200022	Complied
20	28	1850.200028	1850.0	0.200028	Complied
30	26	1850.200026	1850.0	0.200026	Complied
40	33	1850.200033	1850.0	0.200033	Complied
50	46	1850.200046	1850.0	0.200046	Complied

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

Transmitter Frequency Stability (Temperature Variation) (Continued)

Top Channel (1909.8 MHz)

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
-30	32	1909.800032	1910.0	0.199968	Complied
-20	30	1909.800030	1910.0	0.199970	Complied
-10	20	1909.800020	1910.0	0.199980	Complied
0	10	1909.800010	1910.0	0.199990	Complied
10	35	1909.800035	1910.0	0.199965	Complied
20	24	1909.800024	1910.0	0.199976	Complied
30	37	1909.800037	1910.0	0.199963	Complied
40	39	1909.800039	1910.0	0.199961	Complied
50	44	1909.800044	1910.0	0.199956	Complied

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3.7. Transmitter Frequency Stability (Voltage Variation): Section 24.235

Ambient Temperature: 24°C Relative Humidity: 42%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Part 2.

Bottom Channel (1850.2 MHz)

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
3.4	22	1850.200022	1850.0	0.200022	Complied
4.2	24	1850.200024	1850.0	0.200024	Complied

Top Channel (1909.8 MHz)

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
3.4	24	1909.800024	1910.0	0.199976	Complied
4.2	18	1909.800018	1910.0	0.199982	Complied

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3.8. Transmitter Occupied Bandwidth: Section 24.238

Ambient Temperature: 25°C Relative Humidity: 40%

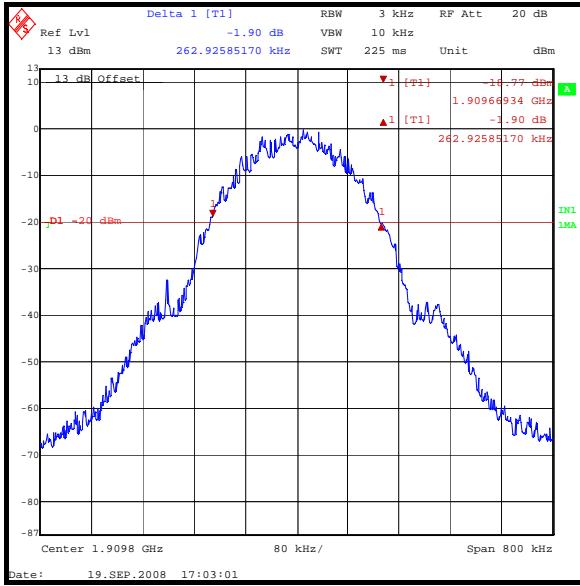
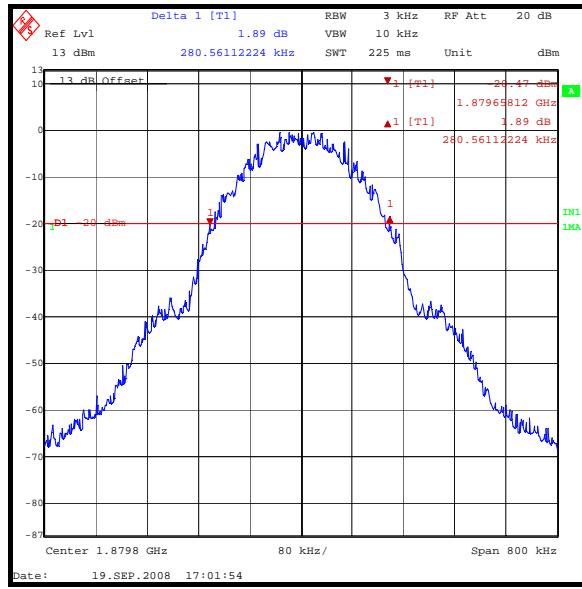
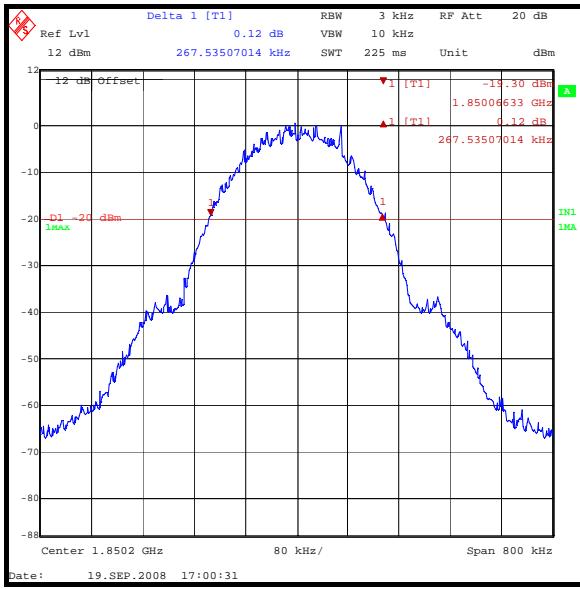
The 99% occupied bandwidth was measured by setting the RBW to 1% of the emissions bandwidth and measuring the 20dB bandwidth.

Mode	Channel	Frequency (MHz)	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (kHz)
Voice	Bottom	1850.2	3.0	10.0	267.535
	Middle	1879.8	3.0	10.0	280.561
	Top	1909.8	3.0	10.0	262.926
GPRS	Bottom	1850.2	3.0	10.0	280.160
	Middle	1879.8	3.0	10.0	274.148
	Top	1909.8	3.0	10.0	271.743

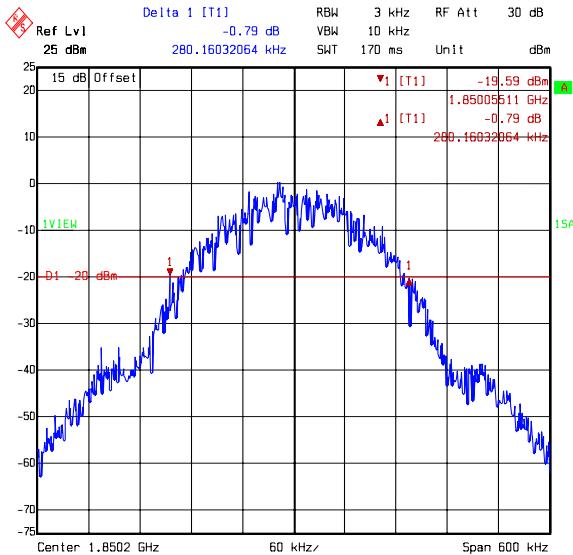
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Transmitter Occupied Bandwidth (Continued)

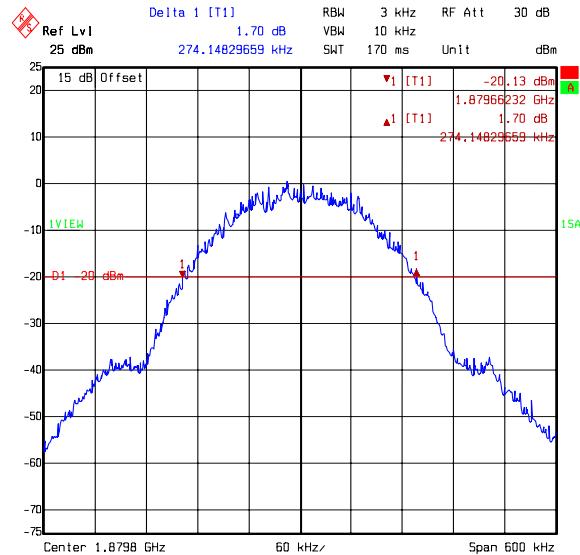
Voice



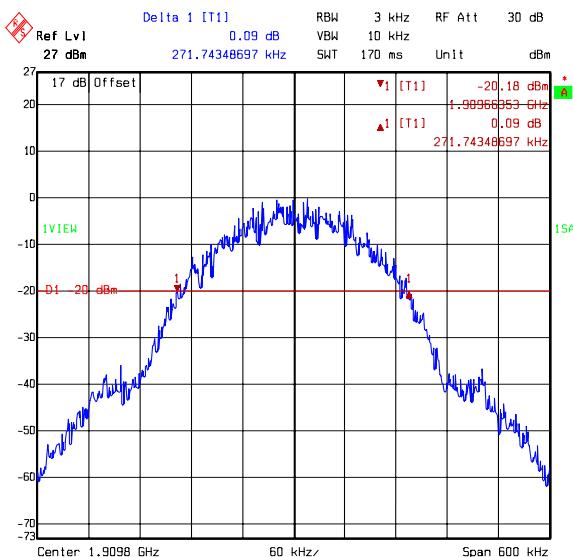
Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

GPRS

Date: 23.OCT.2008 10:28:42



Date: 23.OCT.2008 10:35:41



Date: 23.OCT.2008 10:38:52

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3.9. Transmitter Out of Band Radiated Emissions: Section 2.1053/24.238

Ambient Temperature: 24°C Relative Humidity: 46%

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Parts 2 and 24.238.

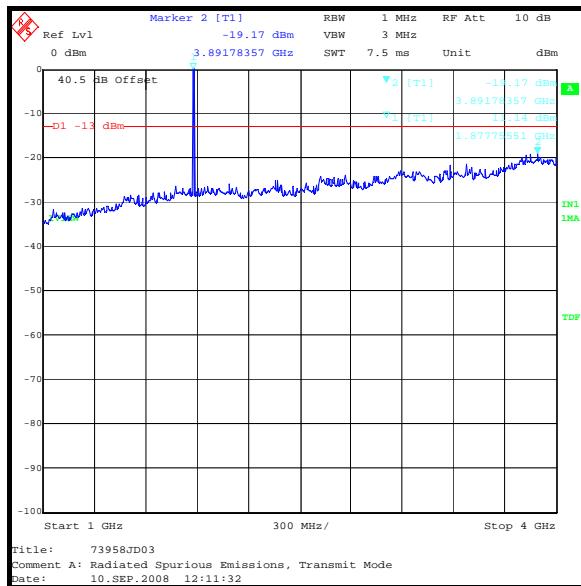
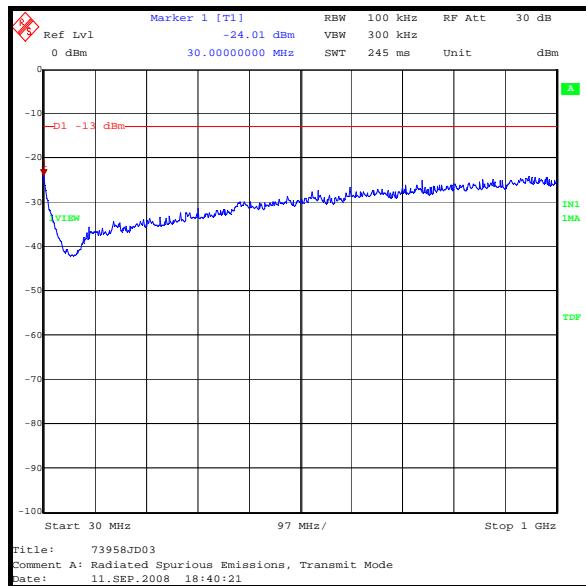
Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
3891.784	-19.1	-13.0	6.1	Complied

Note(s):

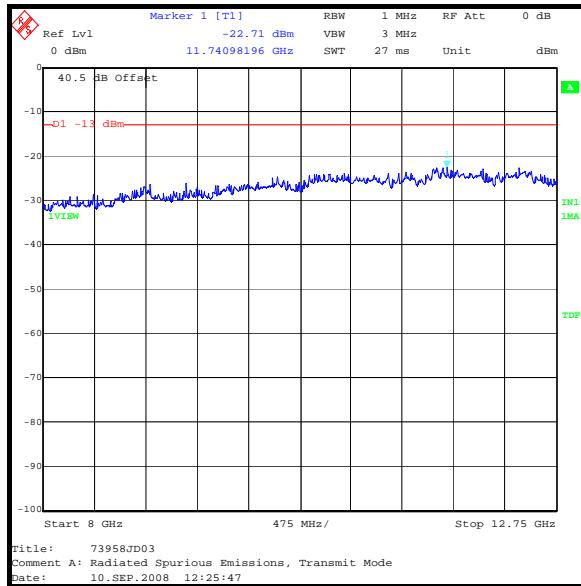
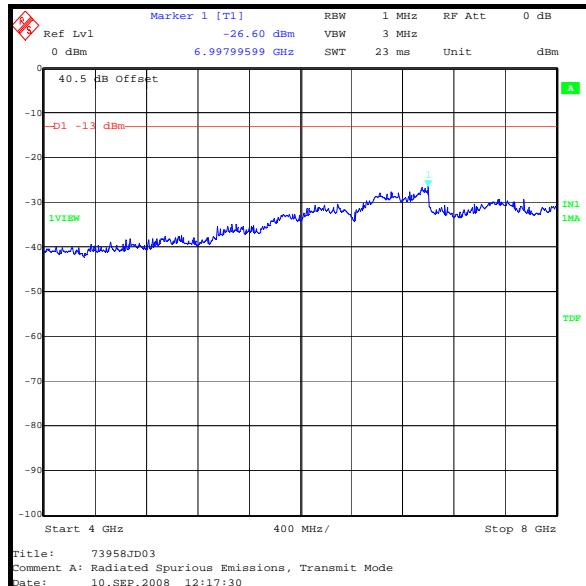
1. No spurious emissions were detected above the noise floor of the measuring receiver; therefore, the highest peak noise floor reading of the measuring receiver was recorded as shown in the table above.

Test of: NTT Docomo P-01A
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Transmitter Out of Band Radiated Emissions (Continued)

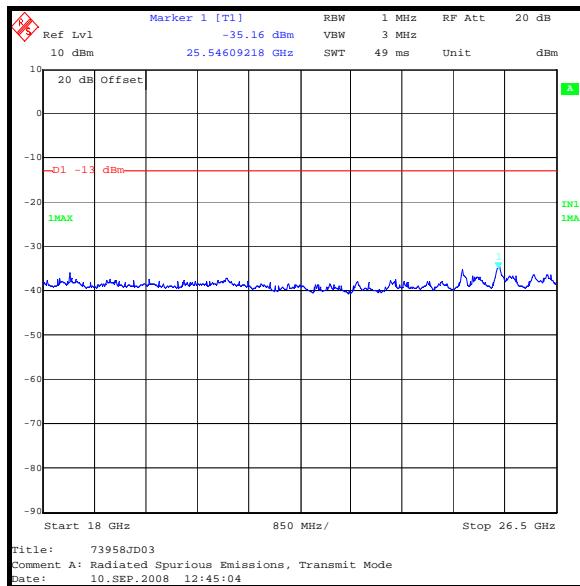
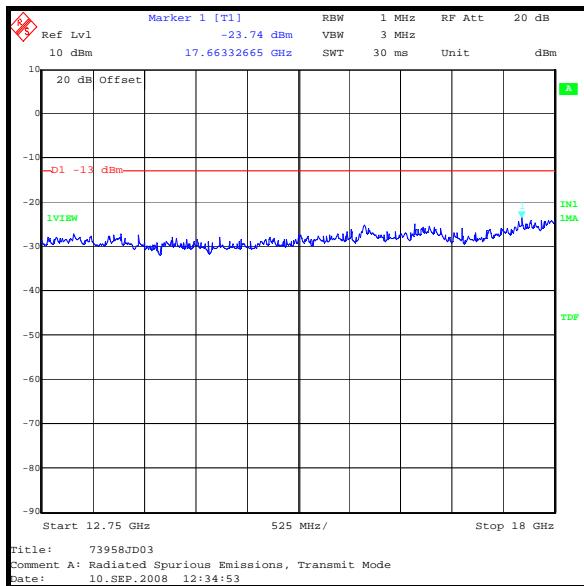


Note the carrier is shown on the above plot.



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Transmitter Out of Band Radiated Emissions (Continued)



Test of: NTT Docomo P-01A

To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Transmitter Out of Band Radiated Emissions: Section 2.1053/24.238 (Continued)**Integrated Power Over 1 MHz Strip Band: 1847 to 1849 MHz**1st and 2nd 1 MHz blocks immediately below adjacent frequency block

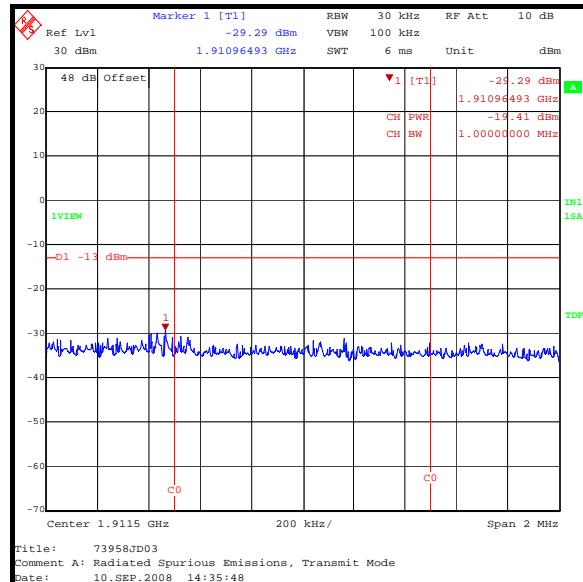
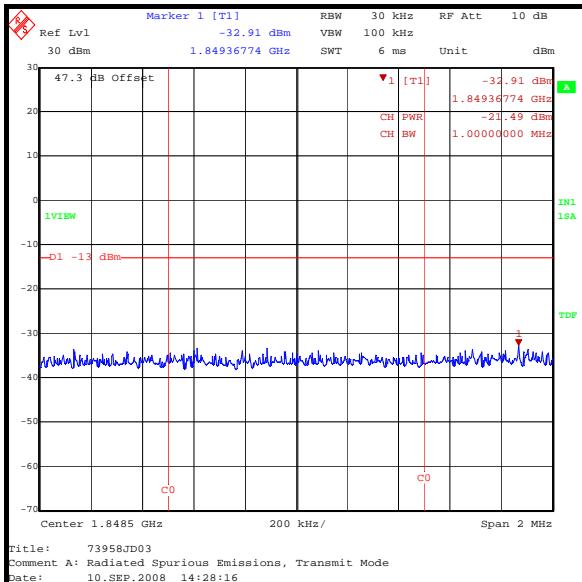
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1847 to 1848	-21.8	-13.0	8.8	Complied
1848 to 1849	-21.5	-13.0	8.5	Complied

Integrated Power Over 1 MHz Strip Band: 1911 to 1913 MHz1st and 2nd 1 MHz blocks immediately above adjacent frequency block

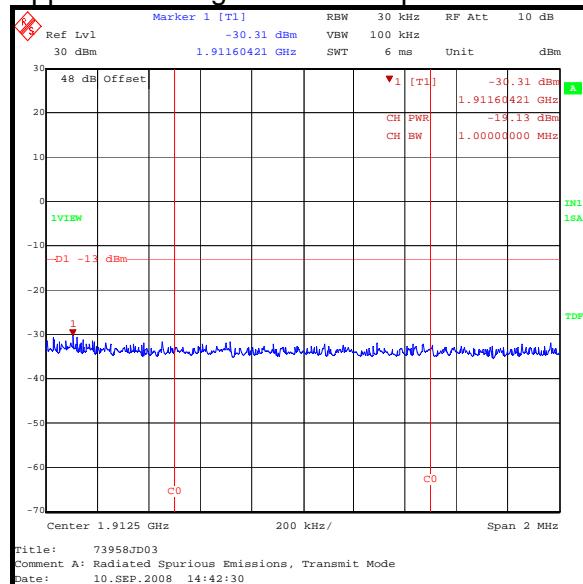
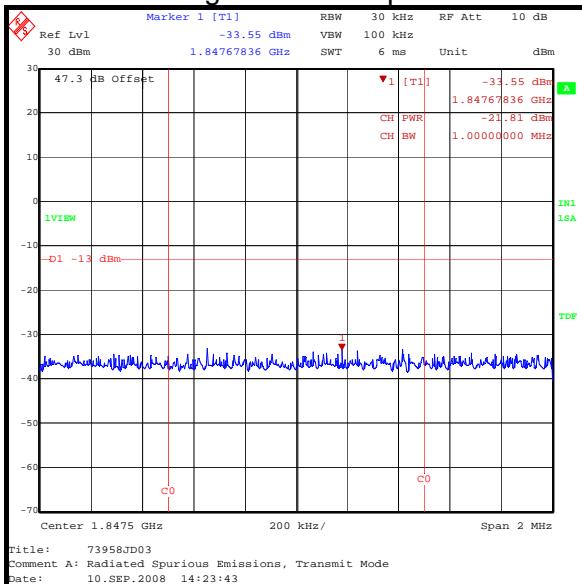
Band (MHz)	Peak Power (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Status
1911 to 1912	-19.4	-13.0	6.4	Complied
1912 to 1913	-19.1	-13.0	6.1	Complied

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

Transmitter Out of Band Radiated Emissions: Section 2.1053/24.238 (Continued)



Lower Band Edge -1 MHz strip



Lower Band Edge -2 MHz strip

Upper Band Edge +2 MHz strip

Test of: NTT Docomo P-01A
To: FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)

6.3.10. Transmitter Radiated Emissions at Band Edges: Section 2.1053/24.238

Tests were performed using the test methods detailed in ANSI TIA-603-C-2004 referencing FCC CFR Parts 2 and 24.238.

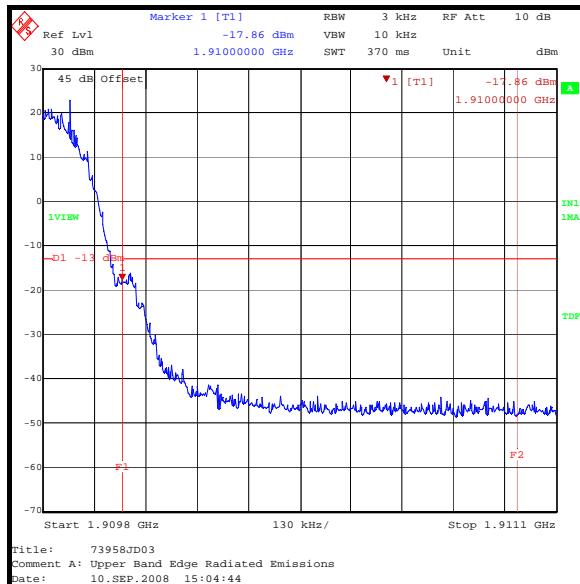
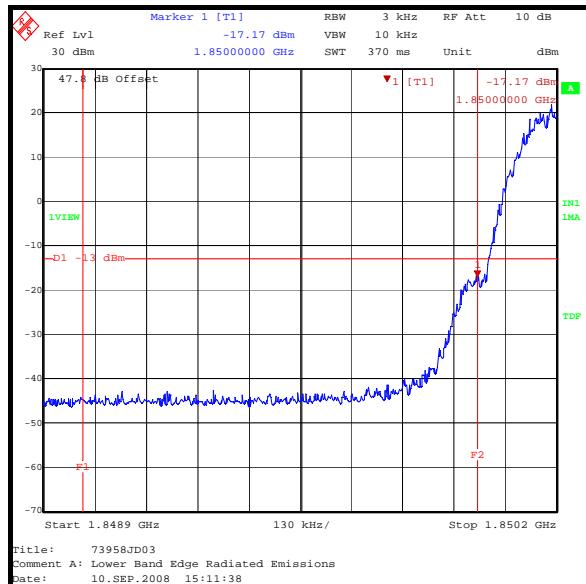
Results: Voice

Bottom Band Edge

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
1850	-17.1	-13.0	4.1	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1910	-17.8	-13.0	4.8	Complied



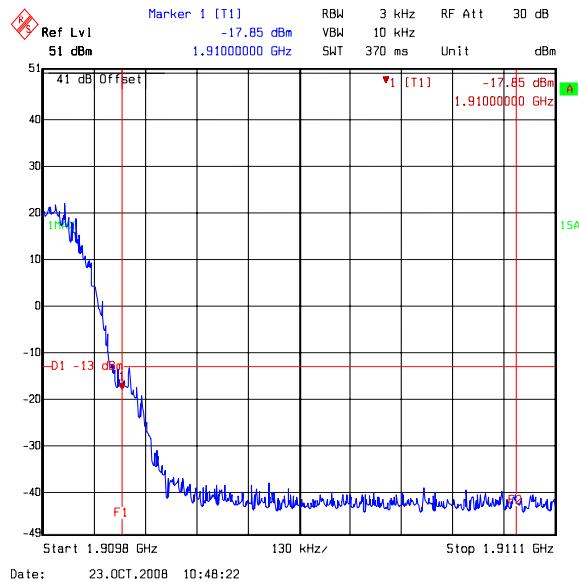
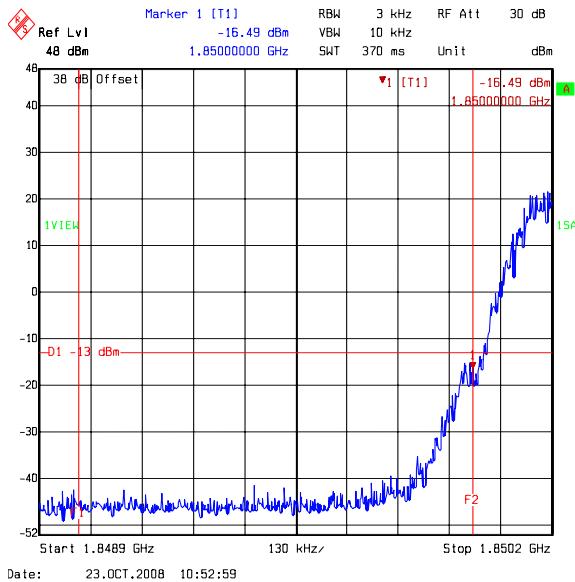
Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

Results: GPRS**Bottom Band Edge**

Frequency (MHz)	Spurious Emission (dBm)	Limit (dBm)	Margin (dB)	Result
1850	-16.5	-13.0	3.5	Complied

Top Band Edge

Frequency (MHz)	Peak Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
1910	-17.9	-13.0	4.9	Complied



Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

7. 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 Radiated Power (ERP)	Not applicable	95%	±2.94 dB
Effective Isotropic Radiated Power (EIRP)	Not applicable	95%	±2.94 dB
Frequency Stability	Not applicable	95%	±11.4 ppm
Minimum Bandwidth	Not applicable	95%	±11.4 ppm
Occupied Bandwidth	824 to 849 MHz	95%	±11.4 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.

Test of: **NTT Docomo P-01A**
To: **FCC Part 22: 2007 (Subpart H), FCC Part 24: 2007 (Subpart E)**

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A1299	Antenna	Schaffner	CBL6143	5094	28 Jul 2008	12
A1516	Universal Radio Communications Tester	Rohde & Schwarz	CMU200	1100.0008.02	Calibration not required	3
A1818	Antenna	EMCO	3115	00075692	-	12
A436	Antenna	Flann	20240-20	330	24 Apr 2006	36
E013	Environmental Chamber	Sanyo	ATMOS chamber	None	Calibration not required	12
M1013	GSM Test Set	Hewlett Packard	8922H	3503U00372	Calibration not required	12
M1068	Thermometer	Iso-Tech	RS55	93102884	09 Jul 2008	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESIB26	100046K	19 Feb 2008	12
M1138	CMU 200	Rohde & Schwarz	CMU200 - 1100.0008.02	836202/093	16 Nov 2007	12
M1149	Bluetooth Test Set	Anritsu	MT8852A	6K00001529	Calibration not required	12
M1229	Digital Multimeter	Fluke	179	87640015	09 May 2008	12
S0520	DC Power Supply Unit	GW instek	GPC-3030	E835141	Calibrated before use	12
K0002	3m RSE Chamber	Not Applicable	Not Applicable	Not Applicable	26 Aug 2008	12

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