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**Test Report:** 99922TRFWL

**Applicant:** Dekolink Wireless Ltd.  
16 Bazel St. Qiriyat-Arieh,  
Petah-Tikva, Israel  
49510

**Apparatus:** MW-CSR-PCS-3080

**FCC ID:** OIWCSRPCS3080

**In Accordance With:** FCC Part 24, Personal Communications Services  
Subpart E Broadband PCS

**Tested By:** Nemko Canada Inc.  
303 River Road  
Ottawa, Ontario  
K1V 1H2

**Authorized By:**

A handwritten signature in blue ink, appearing to read 'Jason Nixon', with a stylized flourish at the end.

Jason Nixon, Wireless/Telecom Specialist

**Date:** March 4, 2008

**Total Number of Pages:** 36

## Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 24. Conducted measurements were performed in accordance with ANSI TIA-603-B-2002. Radiated tests were conducted in accordance with TIA-603-B-2002. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

|                                |                                     |
|--------------------------------|-------------------------------------|
| <b>Apparatus Assessed:</b>     | MW-CSR-PCS-3080                     |
| <b>Specification:</b>          | FCC Part 24 Subpart E Broadband PCS |
| <b>Compliance Status:</b>      | Complies                            |
| <b>Exclusions:</b>             | None                                |
| <b>Non-compliances:</b>        | None                                |
| <b>Report Release History:</b> | Original Release                    |

Author: Andrey Adelberg      EMC/Wireless Specialist

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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## **Section 1 : Equipment Under Test**

### **1.1 Product Identification**

The Equipment Under Test was identified as follows:

MW-CSR-PCS-3080

### **1.2 Samples Submitted for Assessment**

The following samples of the apparatus have been submitted for type assessment:

| <b>Sample No.</b> | <b>Description</b> | <b>Serial No.</b> |
|-------------------|--------------------|-------------------|
| 1                 | DEKO3019           | 0801D9148         |

The first samples were received on: January 22, 2008

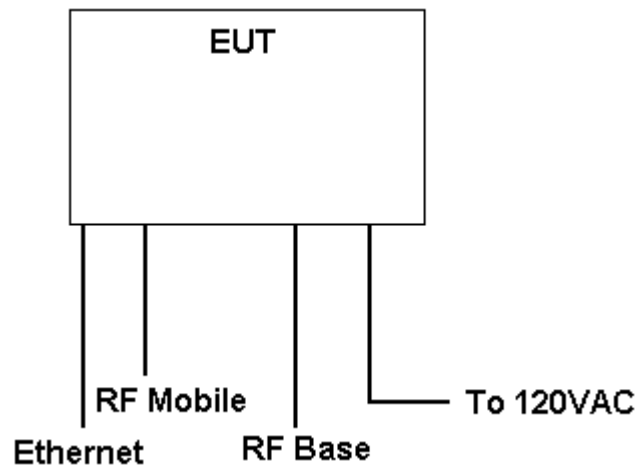
### **1.3 Theory of Operation**

Deko3019 is a 1900MHz CDMA repeater with switchable and tunable IF-SAW filters. The repeater supports up to three contiguous and non-contiguous frequency blocks in the WPCS band (1800-1900 MHz), where each block is independently tunable across the entire CDMA (WPCS) band.

## 1.4 Technical Specifications of the EUT

|                             |                  |                     |
|-----------------------------|------------------|---------------------|
| <b>Operating Frequency:</b> | Uplink:          | 1850 – 1915 MHz     |
|                             | Downlink:        | 1930 – 1995 MHz     |
| <b>Emission Designator:</b> | GXW              |                     |
| <b>Rated Power:</b>         | Uplink:          | +24 ± 1 dBm         |
|                             | Downlink:        | +30 ± 1 dBm         |
| <b>Measured Power:</b>      | Uplink:          | 25.28 dBm (0.337 W) |
|                             | Downlink:        | 30.26 dBm (1.062 W) |
| <b>Modulation:</b>          | CDMA and 1xEV-DO |                     |
| <b>Power Source:</b>        | 110 – 240 VAC    |                     |

## 1.5 Block Diagram of the EUT



## Section 2 : Test Conditions

### 2.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 2 Subpart J, Equipment Authorization Procedures  
 FCC Part 24, Subpart E Broadband PCS  
 FCC 2-11-04/EAB/RF Amplifier, Booster, and Repeater Reminder Sheet

### 2.2 Deviations From Laboratory Test Procedures

No deviations were made from laboratory test procedures.

### 2.3 Test Environment

All tests were performed under the following environmental conditions:

|                    |   |                          |
|--------------------|---|--------------------------|
| Temperature range  | : | 15 – 30 °C               |
| Humidity range     | : | 20 - 75 %                |
| Pressure range     | : | 86 - 106 kPa             |
| Rated voltage      | : | 110-240 VAC              |
| Power supply range | : | +/- 5% of rated voltages |

### 2.4 Test Equipment

| Equipment                | Manufacturer    | Model No.     | Asset/Serial No. | Next Cal.   |
|--------------------------|-----------------|---------------|------------------|-------------|
| Signal Generator         | Rohde & Schwarz | SMIQ06B       | FA001878         | Sept 4/08   |
| Power Meter              | Agilent         | N1911A        | FA001946         | Jan 10/09   |
| Power Sensor             | Agilent         | N1922A        | FA001947         | Jan 10/09   |
| Attenuator               | Narda           | 769-20        | FA001394         | COU         |
| Signal Generator         | Rohde & Schwarz | SMIQ03E       | FA001269         | Aug 13/08   |
| Biconical                | Sunol           | BC2           | FA002078         | July 25/08  |
| Log Periodic Antenna     | Sunol           | LP5           | FA002077         | July 25/08  |
| Flush Mount Turntable    | Sunol           | FM2022        | FA002082         | NCR         |
| Controller               | Sunol           | SC104V        | FA002060         | NCR         |
| Mast                     | Sunol           | TLT2          | FA002061         | NCR         |
| 50 Coax cable            | HUBER + SUHNER  | None          | FA002022         | Sept. 19/08 |
| 50 Coax cable            | HUBER + SUHNER  | None          | FA002015         | Sept. 19/08 |
| Spectrum Analyzer        | Rohde & Schwarz | FSP           | FA001920         | Mar. 19/08  |
| Horn Antenna #1          | EMCO            | 3115          | FA000649         | Feb 26/08   |
| 1.0 – 2.0 GHz Amplifier  | JCA             | 12-400        | FA001498         | Aug. 21/08  |
| 2.0 – 4.0 GHz Amplifier  | JCA             | 24-600        | FA001496         | Aug. 21/08  |
| 4.0 – 8.0 GHz Amplifier  | JCA             | 48-600        | FA001497         | Aug. 21/08  |
| 5.0 – 18.0 GHz Amplifier | NARDA           | DWT-186N23U40 | FA001409         | COU         |

COU – Calibrate on Use

NCR – No Calibration Required

## **2.5 Measurement Uncertainty**

Nemko Canada measurement uncertainty has been calculated using guidance of UKAS LAB 34:2003 and TIA-603-B Nov 7, 2002. All calculations have been performed to provide a confidence level of 95% and can be found in Nemko Canada document MU-003.

## **Section 3 : Observations**

### **3.1 Modifications Performed During Assessment**

No modifications were performed during assessment.

### **3.2 Record Of Technical Judgements**

No technical judgements were made during the assessment.

### **3.3 EUT Parameters Affecting Compliance**

The user of the apparatus could not alter parameters that would affect compliance.

### **3.4 Test Deleted**

No Tests were deleted from this assessment.

### **3.5 Additional Observations**

There were no additional observations made during this assessment.

## **Section 4 : Results Summary**

This section contains the following:

FCC Part 24: Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

- N      No: not applicable / not relevant.
- Y      Yes: Mandatory i.e. the apparatus shall conform to these tests.
- N/T    Not Tested, mandatory but not assessed. (See section 3.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

**4.1 FCC Part 24 Subpart E: Test Results**

| Clause         | Test Method | Test Description             | Required | Result              |
|----------------|-------------|------------------------------|----------|---------------------|
| 24.235         | 2.1055      | Frequency stability          | Y        | PASS <sup>(1)</sup> |
| 24.232         | 2.1046      | Output power                 | Y        | PASS                |
| 24.238         | 2.1051      | Conducted spurious emissions | Y        | PASS                |
| 24.238         | 2.1053      | Radiated spurious emissions  | Y        | PASS                |
| 2-11-04/EAB/RF | 2.1049      | Occupied bandwidth           | Y        | PASS                |
| 2-11-04/EAB/RF | —           | Out of band rejection        | Y        | PASS                |

## Notes:

- (1) The EUT does not band translate; however it does down convert and then up convert. A signal was transmitted through the booster in both directions and there was no offset observed.

## Appendix A : Test Results

### Clause 24.232 Output Power

((a) Base stations are limited to 1640 watts peak equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.

(b) Base stations that are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census, are limited to 3280 watts peak equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT

(c) Mobile/portable stations are limited to 2 watts EIRP peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

### Test Conditions:

|                            |                  |                     |                 |
|----------------------------|------------------|---------------------|-----------------|
| <b>Sample Number:</b>      | 1                | <b>Temperature:</b> | 24°C            |
| <b>Date:</b>               | January 21, 2008 | <b>Humidity:</b>    | 40%             |
| <b>Modification State:</b> | 0                | <b>Tester:</b>      | Andrey Adelberg |
|                            |                  | <b>Laboratory:</b>  | Ottawa          |

### Test Results:

See Attached Table.

**Additional Observations:** Testing was performed by means of a calibrated peak power meter, with a single carrier set to the 1 dB compression point.

#### Downlink:

| Modulation | Measured Power (dBm) |           |         |
|------------|----------------------|-----------|---------|
|            | 1935MHz              | 1962.5MHz | 1990MHz |
| CDMA       | 29.34                | 30.20     | 29.79   |
| 1x EV-DO   | 28.25                | 30.26     | 29.62   |

#### Uplink:

| Modulation | Measured Power (dBm) |           |         |
|------------|----------------------|-----------|---------|
|            | 1855MHz              | 1882.5MHz | 1910MHz |
| CDMA       | 25.26                | 25.14     | 22.64   |
| 1x EV-DO   | 25.31                | 25.28     | 22.53   |

Measurements were performed with the EUT filter set to 20MHz.

**Clause 24.238 Conducted Spurious Emissions**

(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

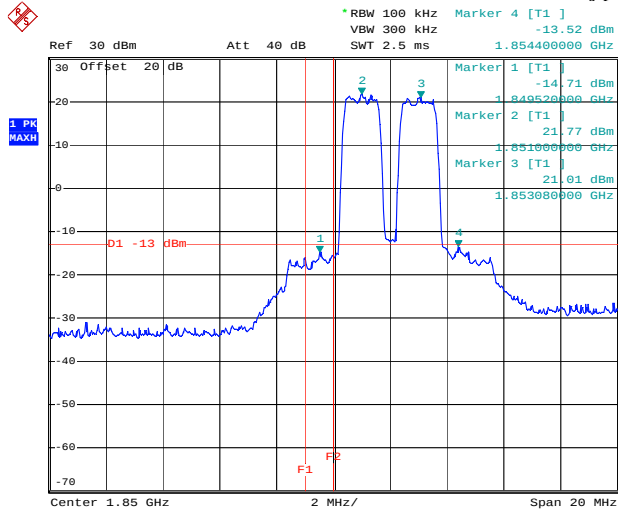
**Test Conditions:**

|                            |                  |                     |                 |
|----------------------------|------------------|---------------------|-----------------|
| <b>Sample Number:</b>      | 1                | <b>Temperature:</b> | 24°C            |
| <b>Date:</b>               | January 25, 2008 | <b>Humidity:</b>    | 40%             |
| <b>Modification State:</b> | 0                | <b>Tester:</b>      | Andrey Adelberg |
|                            |                  | <b>Laboratory:</b>  | Ottawa          |

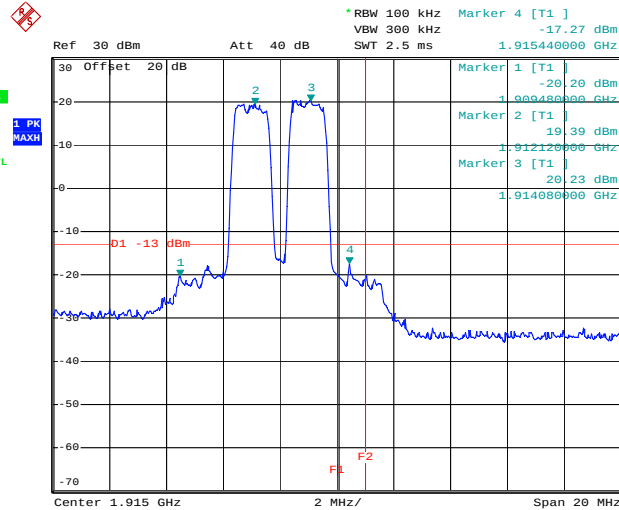
**Test Results:**

See Attached Plots.

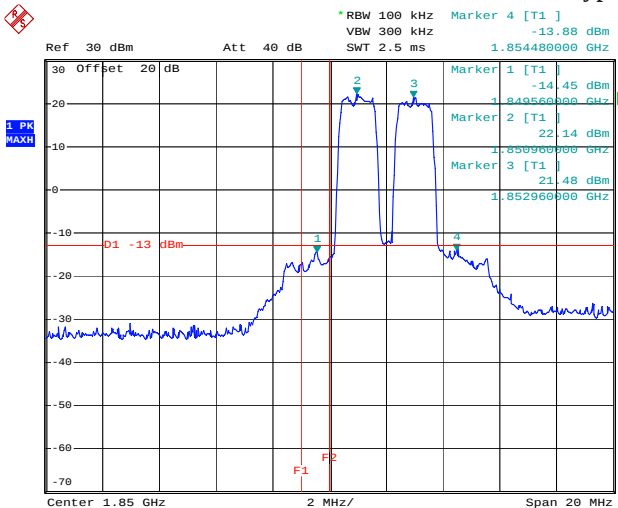
## Intermodulations, continued

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Modulation typeUplink  
CDMA

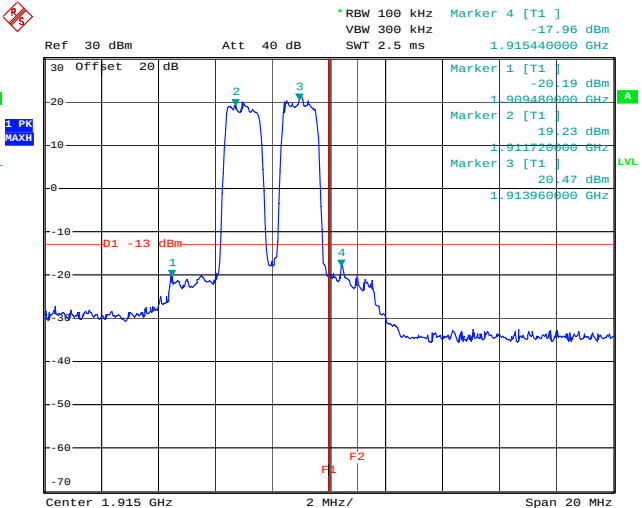
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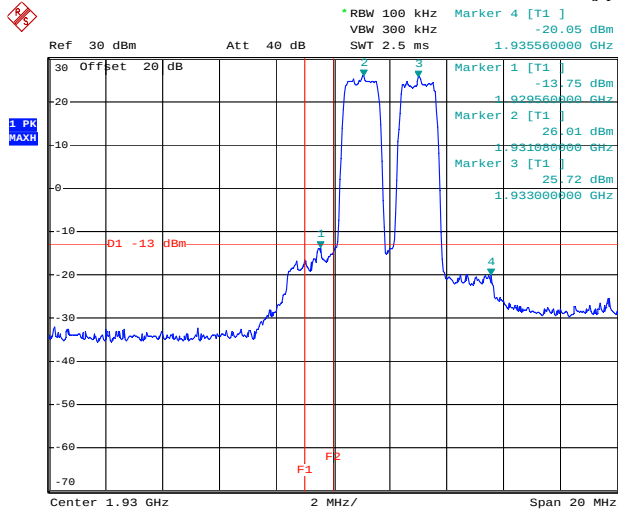
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Modulation typeUplink  
1x EV-DO

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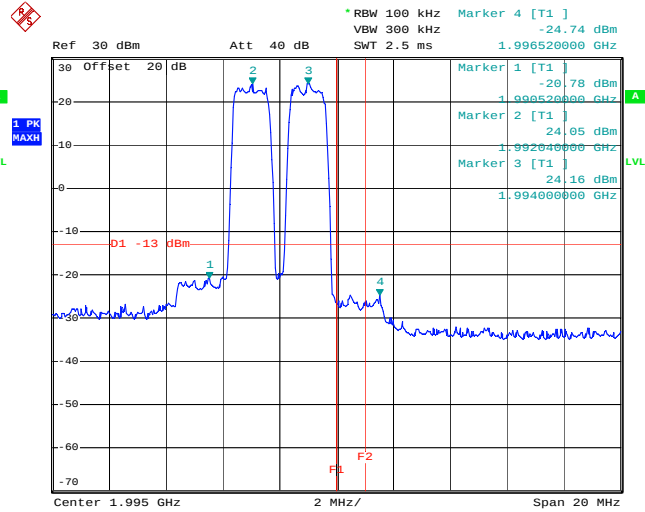


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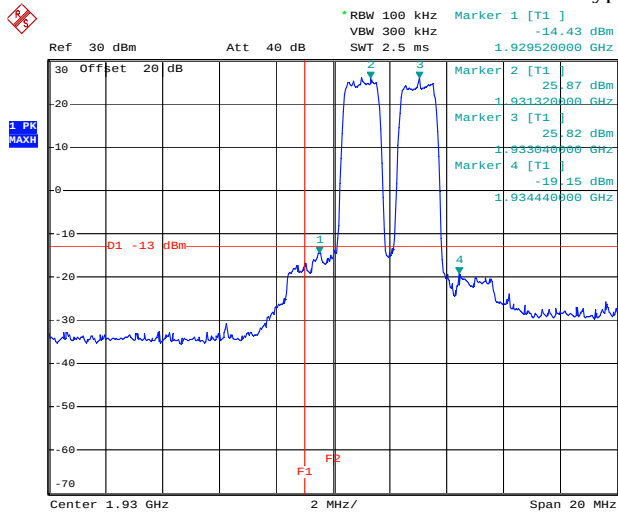
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Modulation typeDownlink  
CDMA

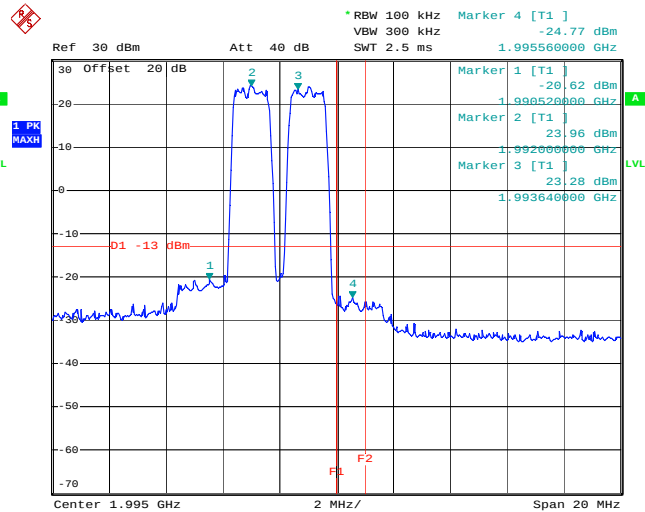
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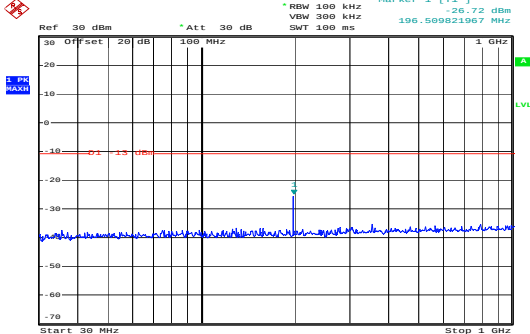
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Date: 28.JAN.2008 10:11:35

## Conducted Spurious Emissions, continued

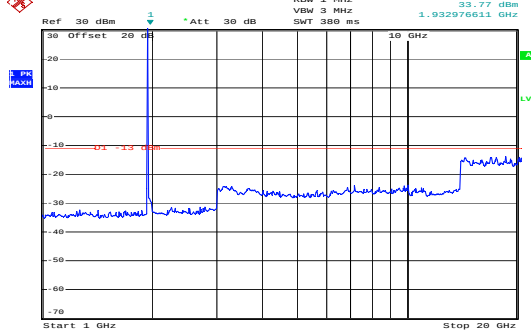
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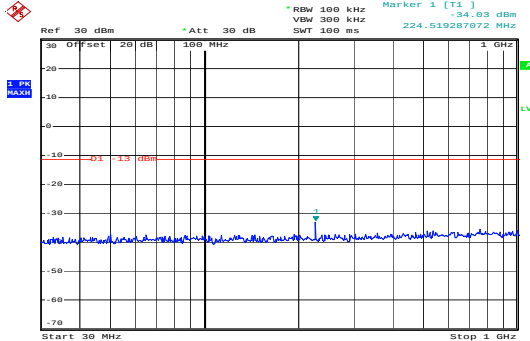
### CDMA

### Low Channel frequency



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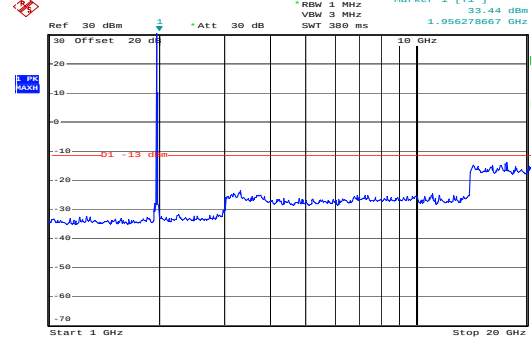
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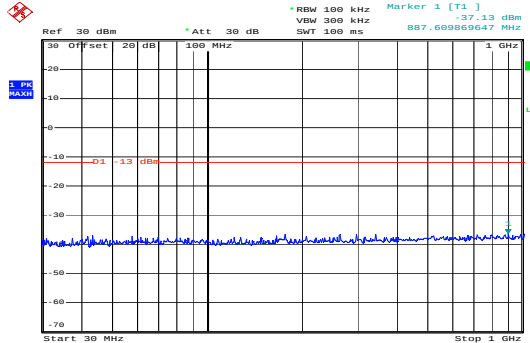
### CDMA

### Mid Channel frequency



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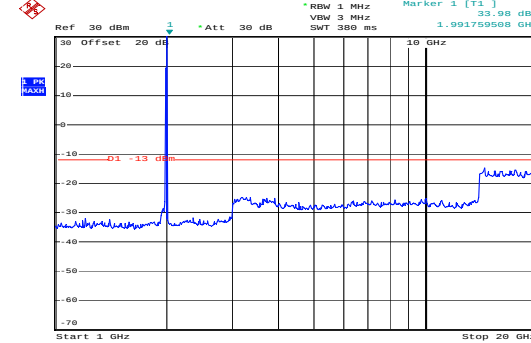
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### CDMA

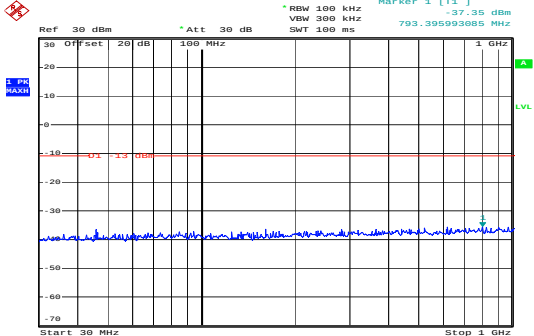
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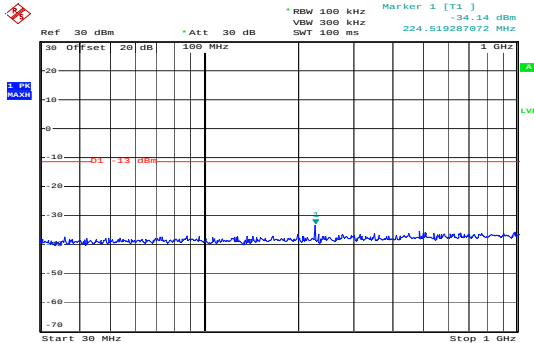
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## Downlink



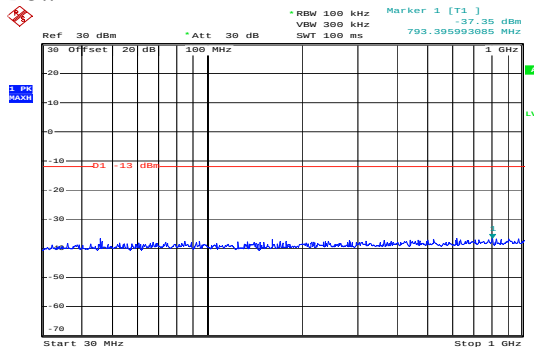
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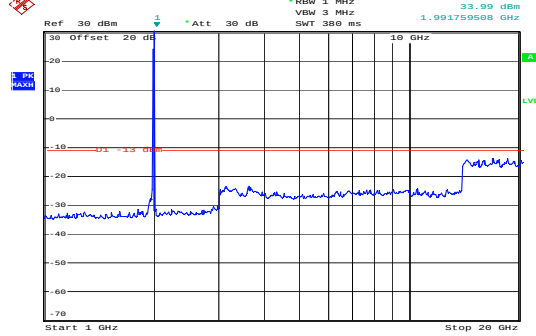
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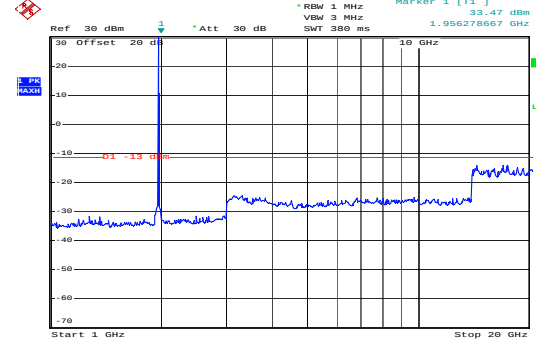
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## 1x EV-DO



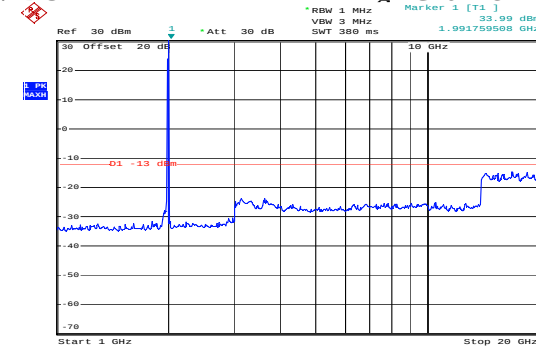
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## 1x EV-DO



Date: 23.JAN.2008 14:49:52

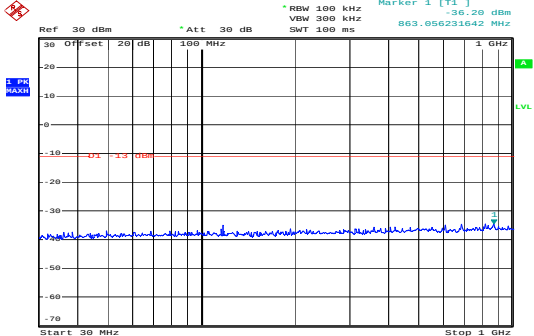
## Low Channel frequency

## Mid Channel frequency

## High Channel frequency

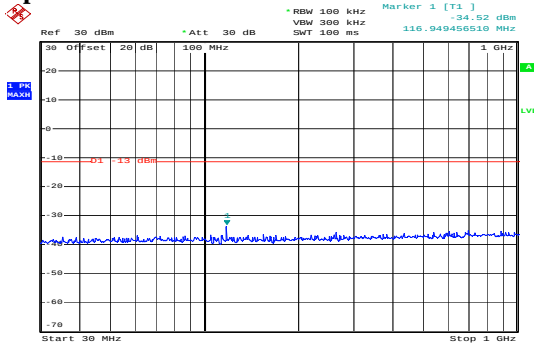
## Conducted Spurious Emissions, continued

## Uplink



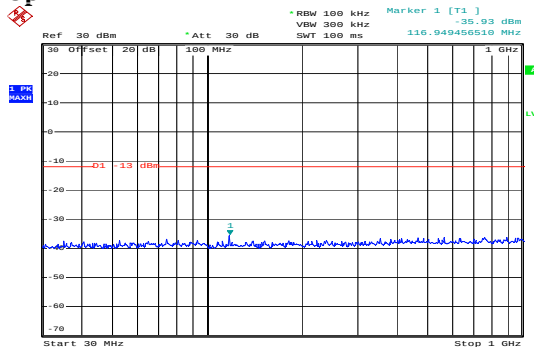
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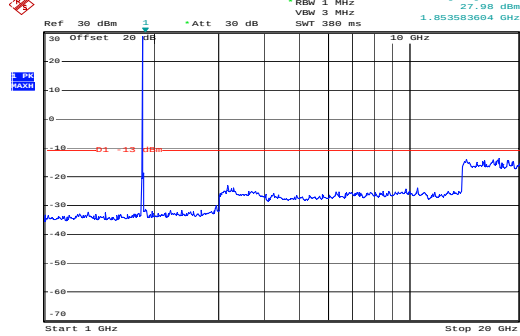
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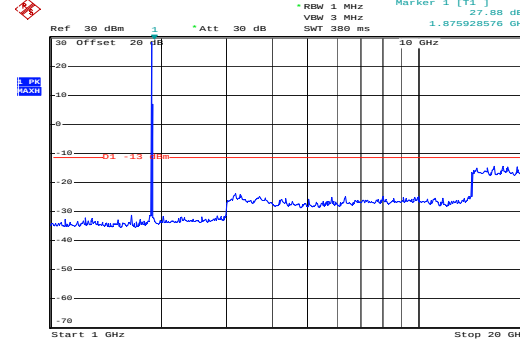
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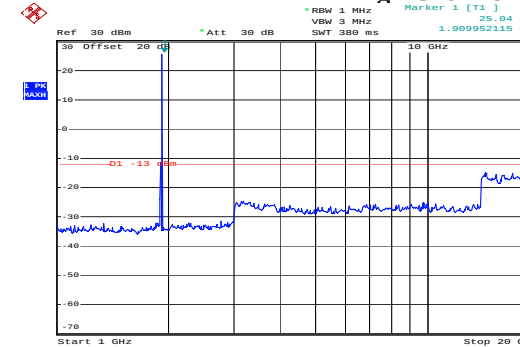
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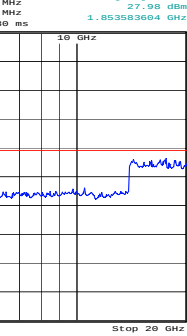
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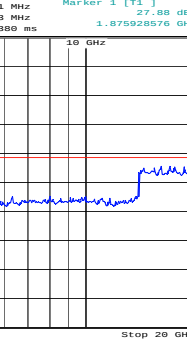


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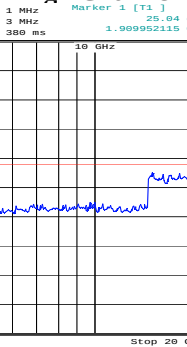
## Low Channel frequency



## Mid Channel frequency

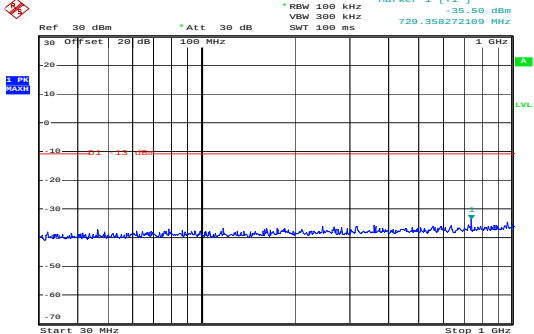


## High Channel frequency



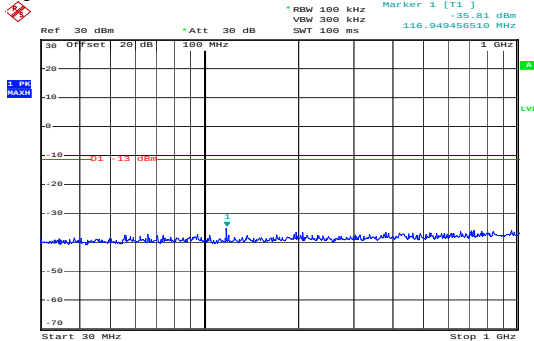
## Conducted Spurious Emissions, continued

### Uplink



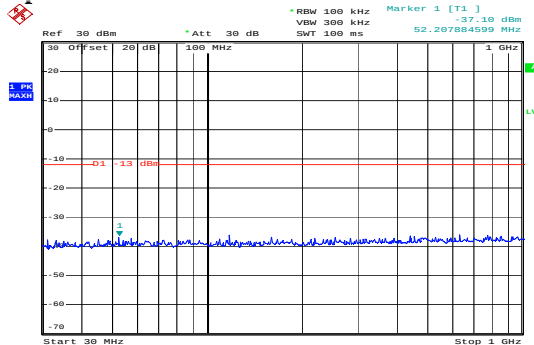
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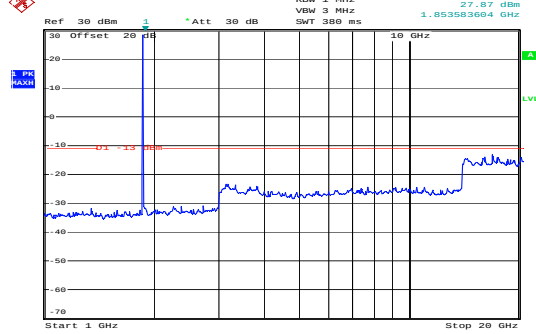
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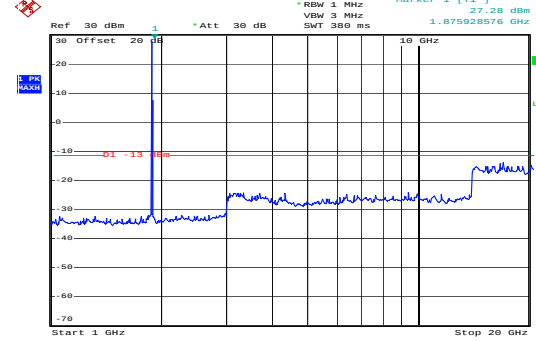
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### 1x EV-DO



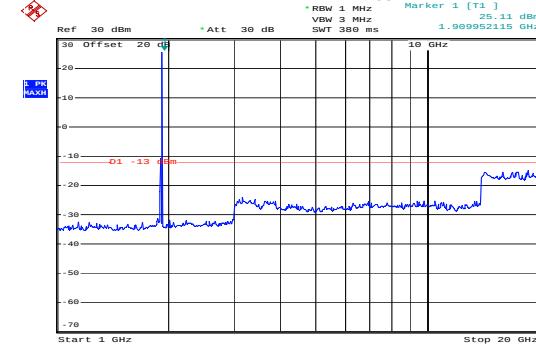
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### 1x EV-DO



Date: 23.JAN.2008 14:43:43

### 1x EV-DO



Date: 23.JAN.2008 14:46:41

### Low Channel frequency

### Mid Channel frequency

### High Channel frequency

**Clause 24.238 Radiated Spurious Emissions**

a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

**Test Conditions:**

|                            |                  |                     |                 |
|----------------------------|------------------|---------------------|-----------------|
| <b>Sample Number:</b>      | 1                | <b>Temperature:</b> | 23°C            |
| <b>Date:</b>               | January 30, 2008 | <b>Humidity:</b>    | 37%             |
| <b>Modification State:</b> | 0                | <b>Tester:</b>      | Andrey Adelberg |
|                            |                  | <b>Laboratory:</b>  | Ottawa          |

**Test Results:**

All emissions were more than 20 dB below the limit.

**Additional Observations:**

The Spectrum was searched from 30MHz to the 10<sup>th</sup> Harmonic.

The EUT was assessed in both directions (Uplink and Downlink) at three carrier frequencies (at low, mid and high channels)

All measurements were performed using a Peak Detector with 100kHz RBW below 1GHz and a 1MHz RBW above 1GHz at a distance of 3 meters.

**Clause 2-11-04/EAB/RF Occupied Bandwidth**

Using an RBW of 300Hz or 1% of the emission bandwidth, The spectral shape of the output should look similar to the input for all modulations.

**Test Conditions:**

|                            |                  |                     |                 |
|----------------------------|------------------|---------------------|-----------------|
| <b>Sample Number:</b>      | 1                | <b>Temperature:</b> | 24°C            |
| <b>Date:</b>               | January 23, 2008 | <b>Humidity:</b>    | 40%             |
| <b>Modification State:</b> | 0                | <b>Tester:</b>      | Andrey Adelberg |
|                            |                  | <b>Laboratory:</b>  | Ottawa          |

**Test Results:**

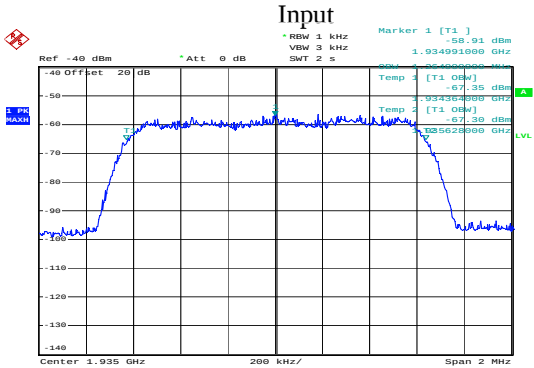
See Attached Plots.

**Additional Observations:**

Input and output signals were compared to verify that there was no any degradation to the signal due to amplification and conversion in the EUT.

## Occupied Bandwidth, continued

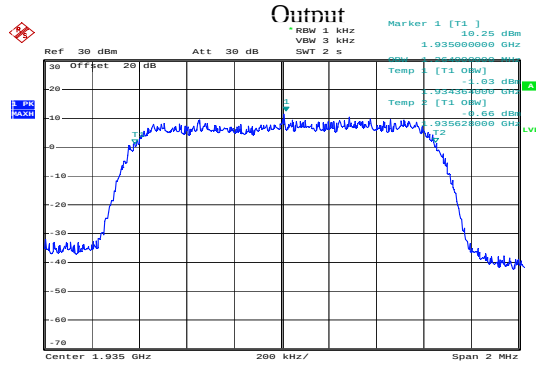
## Downlink



Date: 24.JAN.2008 09:55:44

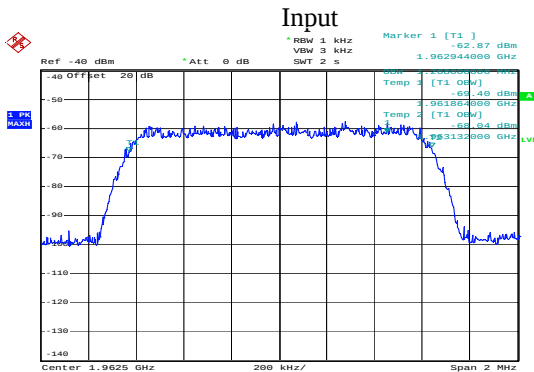
## CDMA

## Low Channel frequency



Date: 23.JAN.2008 15:38:08

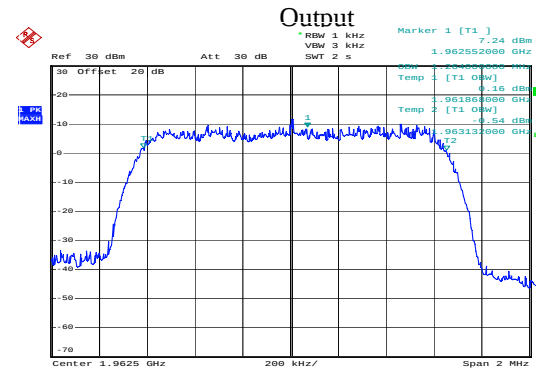
## Downlink



Date: 24.JAN.2008 09:57:19

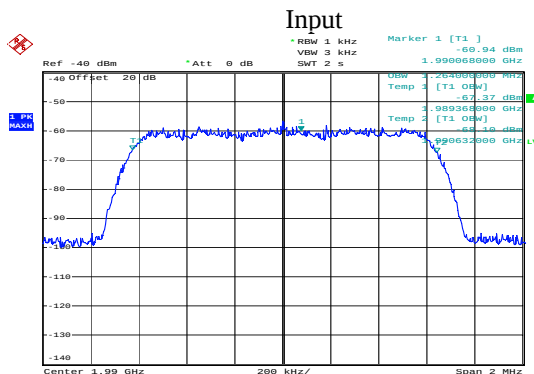
## CDMA

## Mid Channel frequency



Date: 23.JAN.2008 15:29:11

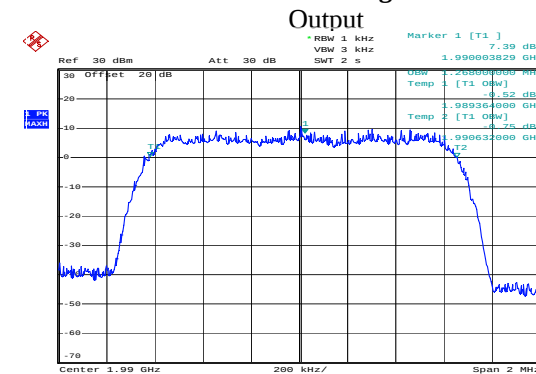
## Downlink



Date: 24.JAN.2008 09:58:24

## CDMA

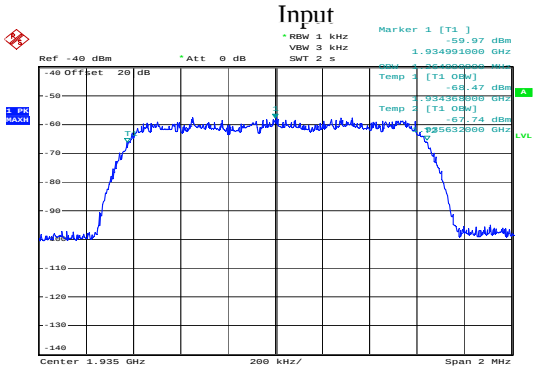
## High Channel frequency



Date: 23.JAN.2008 15:21:43

## Occupied Bandwidth, continued

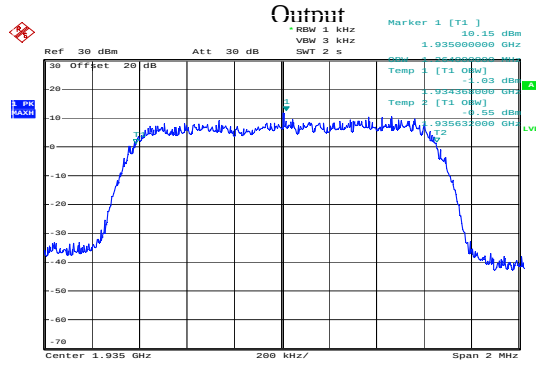
## Downlink



Date: 24.JAN.2008 09:56:21

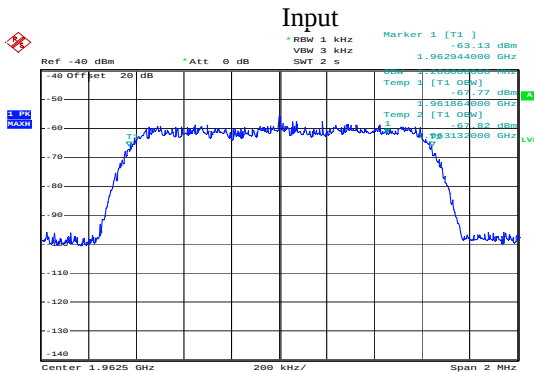
## 1x EV-DO

## Low Channel frequency



Date: 23.JAN.2008 15:38:30

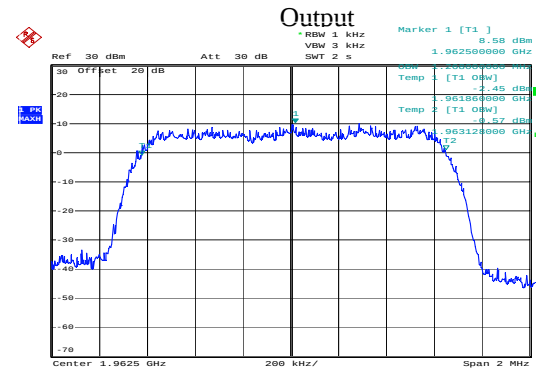
## Downlink



Date: 24.JAN.2008 09:56:58

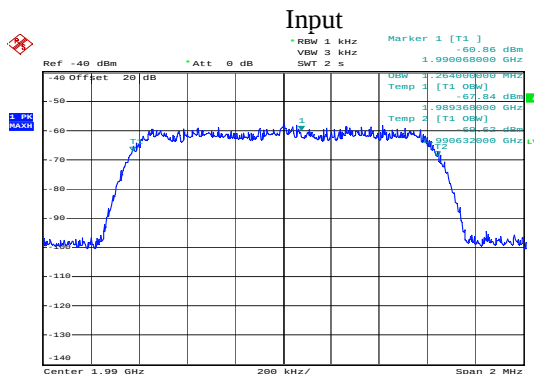
## 1x EV-DO

## Mid Channel frequency



Date: 23.JAN.2008 15:29:41

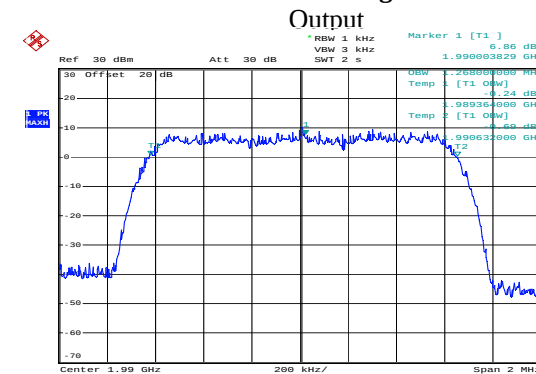
## Downlink



Date: 24.JAN.2008 09:58:51

## 1x EV-DO

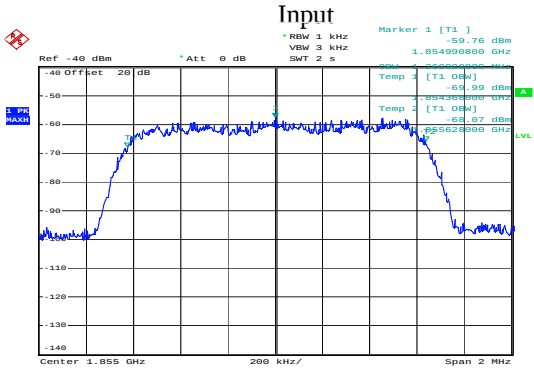
## High Channel frequency



Date: 23.JAN.2008 15:22:35

## Occupied Bandwidth, continued

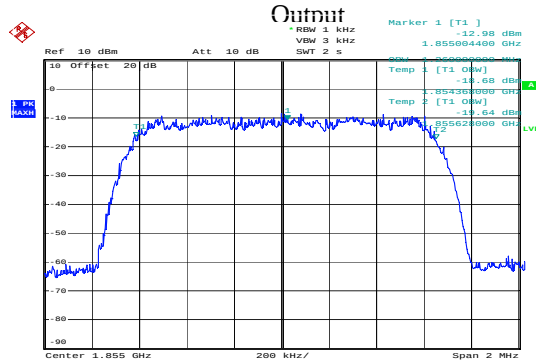
## Uplink



Date: 23.JAN.2008 17:08:03

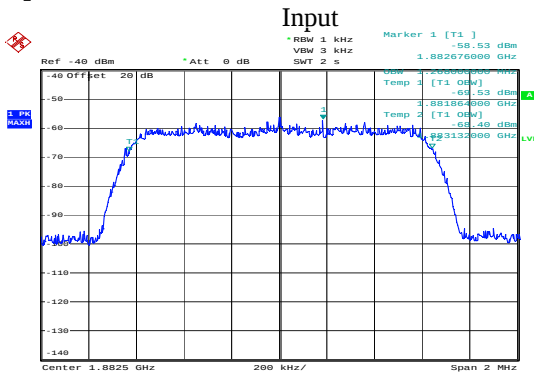
## CDMA

## Low Channel frequency



Date: 23.JAN.2008 15:47:57

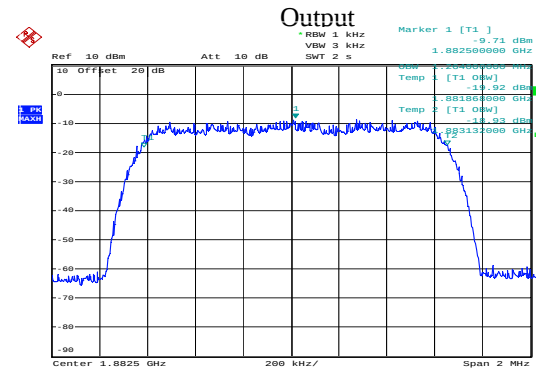
## Uplink



Date: 23.JAN.2008 17:09:21

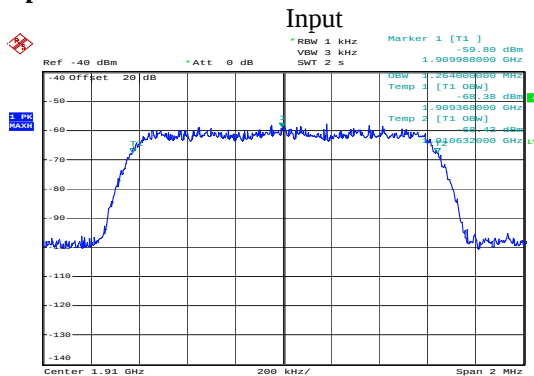
## CDMA

## Mid Channel frequency



Date: 23.JAN.2008 15:48:57

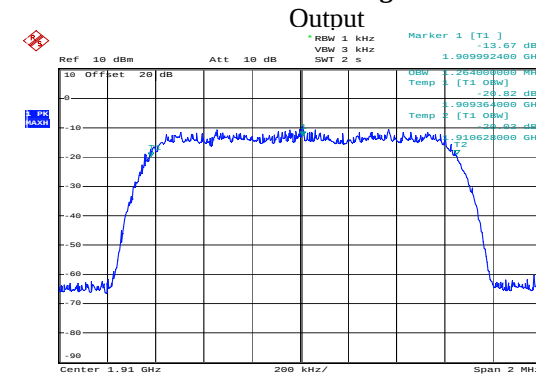
## Uplink



Date: 23.JAN.2008 17:13:38

## CDMA

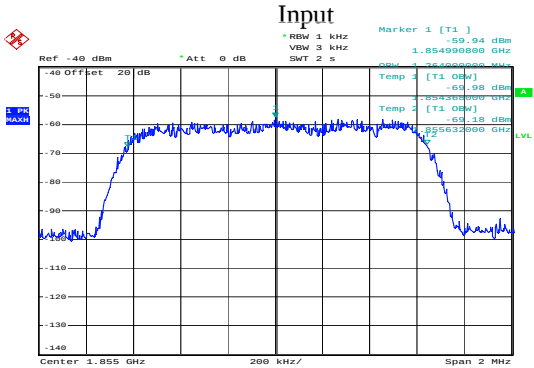
## High Channel frequency



Date: 23.JAN.2008 15:55:43

## Occupied Bandwidth, continued

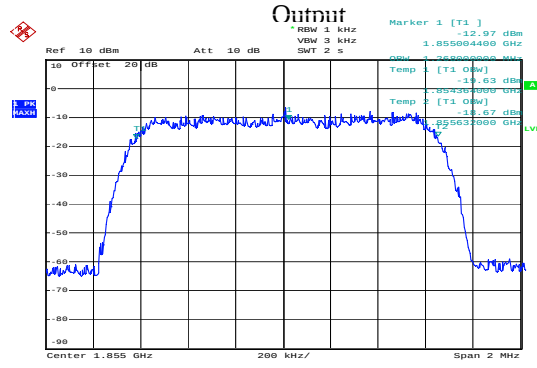
## Uplink



Date: 23.JAN.2008 17:07:34

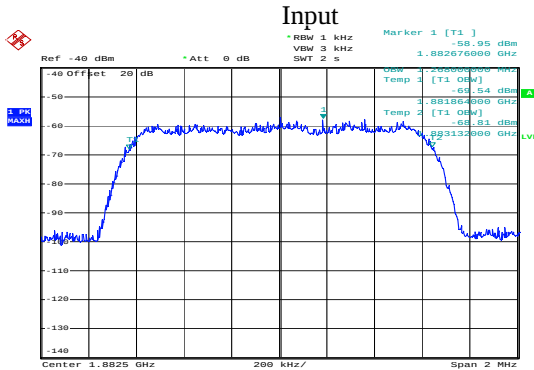
## 1x EV-DO

## Low Channel frequency



Date: 23.JAN.2008 15:47:32

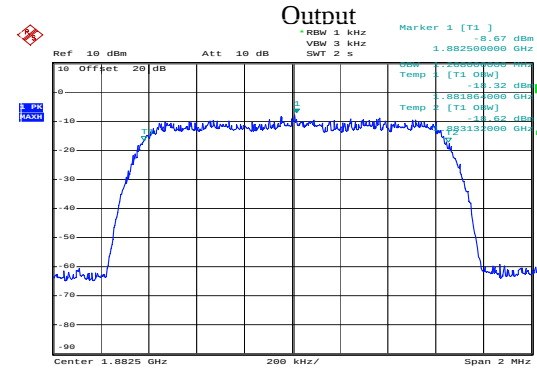
## Uplink



Date: 23.JAN.2008 17:09:59

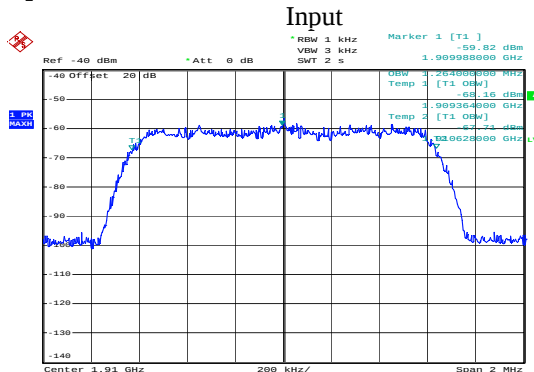
## 1x EV-DO

## Mid Channel frequency



Date: 23.JAN.2008 15:49:26

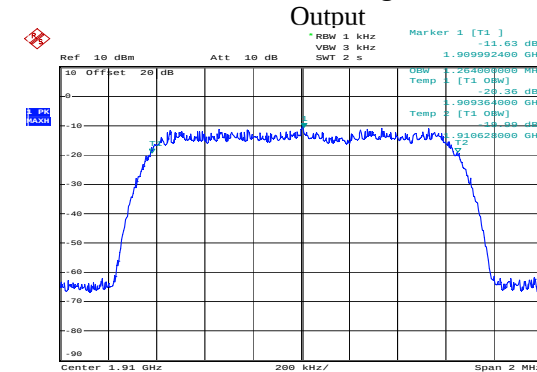
## Uplink



Date: 23.JAN.2008 17:14:24

## 1x EV-DO

## High Channel frequency



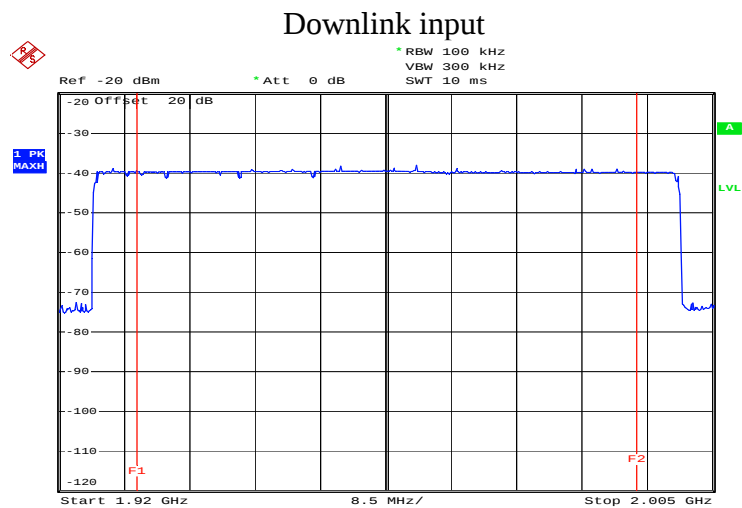
Date: 23.JAN.2008 15:56:16

**Clause 2-11-04/EAB/RF Out of Band Rejection**

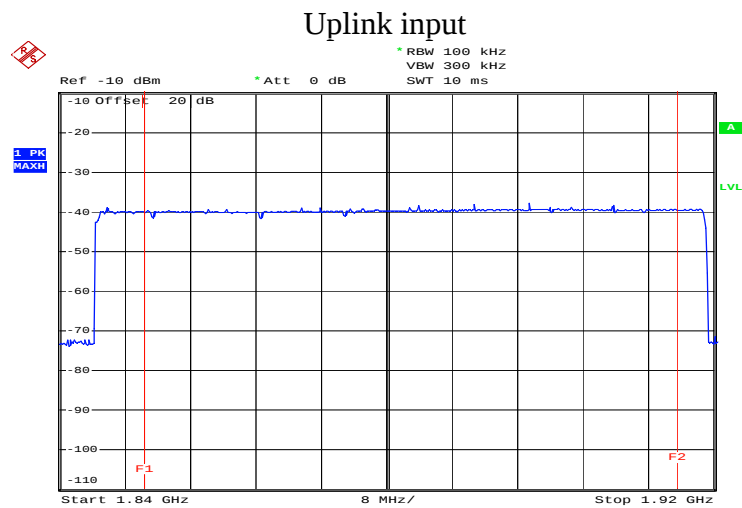
Plots showing the filter frequency response.

**Test Conditions:**

|                     |                  |              |                 |
|---------------------|------------------|--------------|-----------------|
| Sample Number:      | 1                | Temperature: | 23°C            |
| Date:               | January 24, 2008 | Humidity:    | 38%             |
| Modification State: | 0                | Tester:      | Andrey Adelberg |
|                     |                  | Laboratory:  | Ottawa          |

**Test Results:**

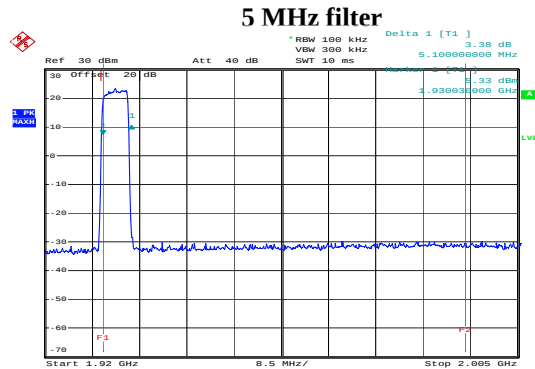
F1 = 1930 MHz; F2 = 1995 MHz



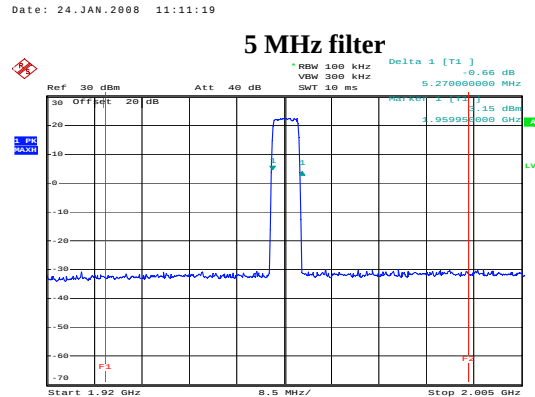
F1 = 1850 MHz; F2 = 1915 MHz

## Out Of Band Rejection, continued

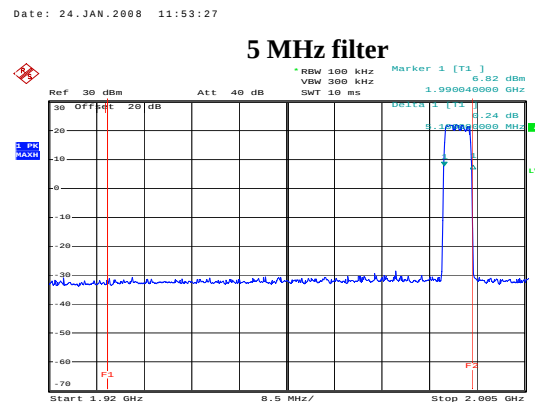
### Downlink output



### Lower frequencies filter position



### Middle frequencies filter position

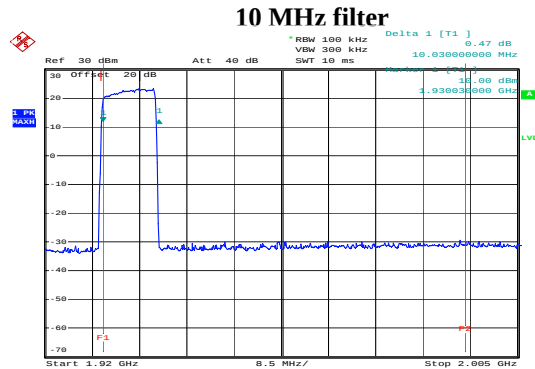


### Higher frequencies filter position

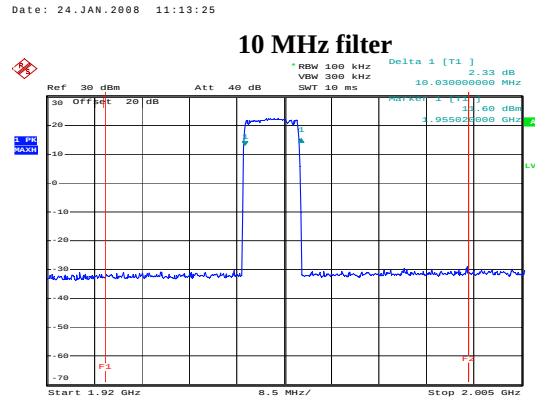
Date: 24.JAN.2008 11:02:17

## Out Of Band Rejection, continued

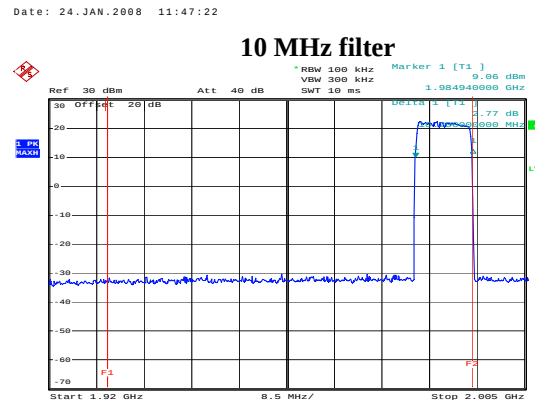
### Downlink output



### Lower frequencies filter position



### Middle frequencies filter position

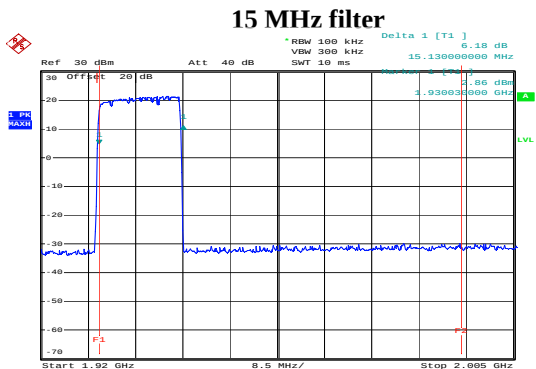


### Higher frequencies filter position

Date: 24.JAN.2008 10:58:59

Out Of Band Rejection, continued

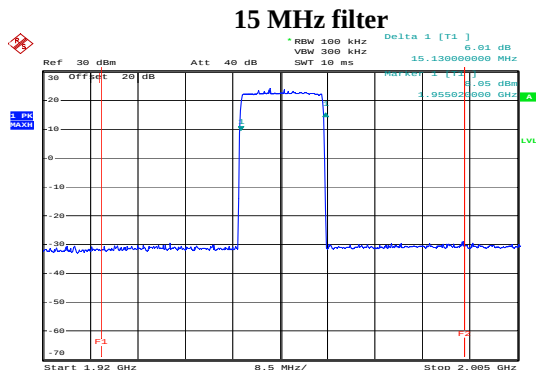
Downlink output



Lower frequencies filter position

Date: 24. JAN. 2008 11:15:23

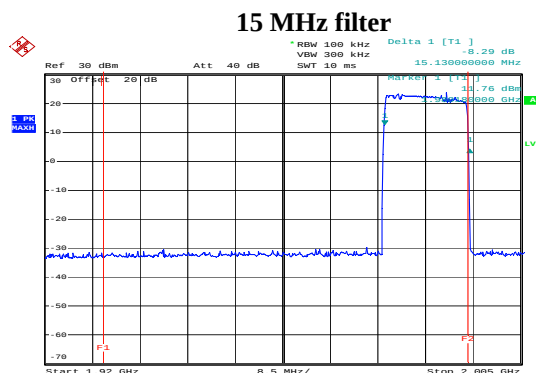
Downlink output



Middle frequencies filter position

Date: 24. JAN. 2008 11:42:25

Downlink output

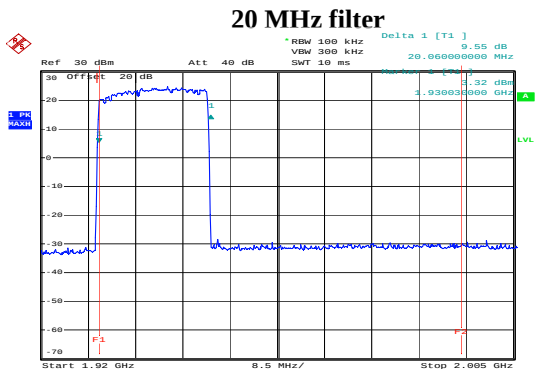


Higher frequencies filter position

Date: 24. JAN. 2008 10:56:12

Out Of Band Rejection, continued

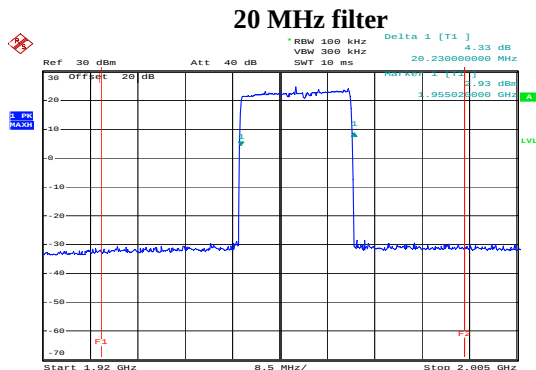
Downlink output



Lower frequencies filter position

Date: 24.JAN.2008 11:09:54

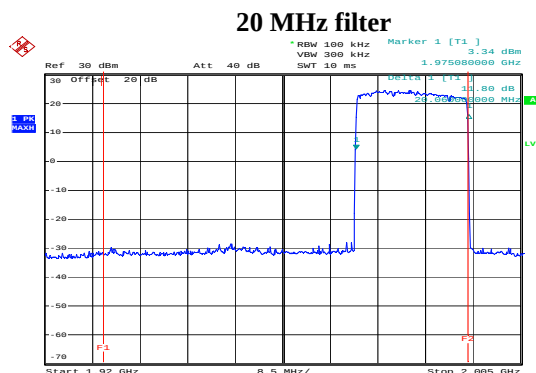
Downlink output



Middle frequencies filter position

Date: 24.JAN.2008 11:50:55

Downlink output

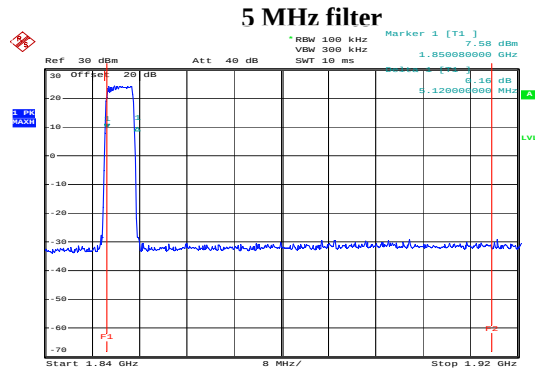


Higher frequencies filter position

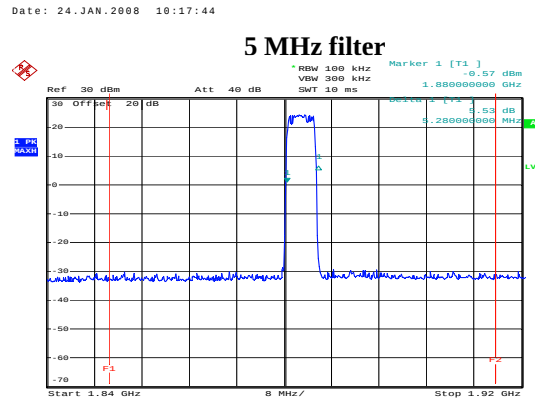
Date: 24.JAN.2008 11:06:45

## Out Of Band Rejection, continued

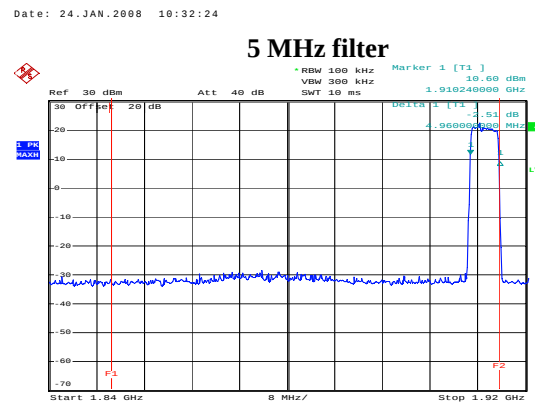
Uplink output



Lower frequencies filter position



Middle frequencies filter position

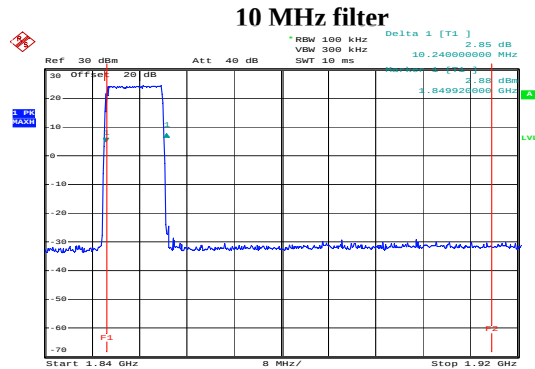


Higher frequencies filter position

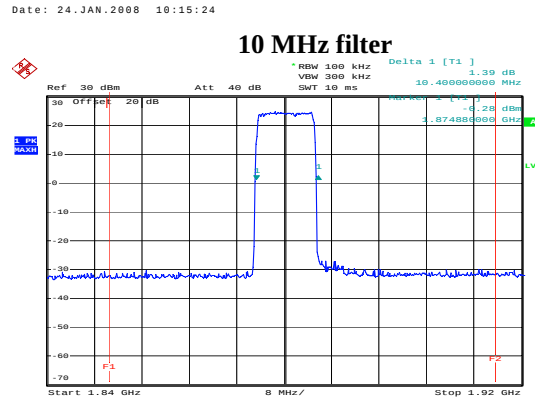
Date: 24.JAN.2008 10:35:13

## Out Of Band Rejection, continued

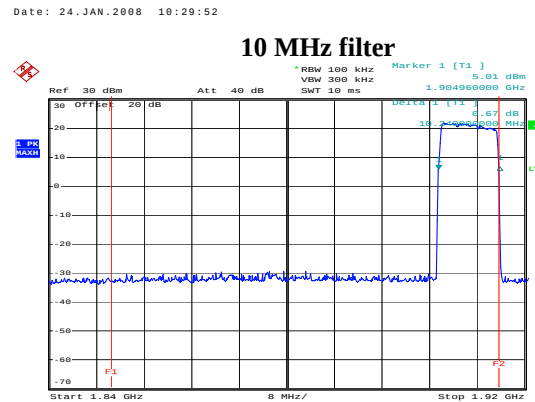
Uplink output



Lower frequencies filter position



Middle frequencies filter position



Higher frequencies filter position

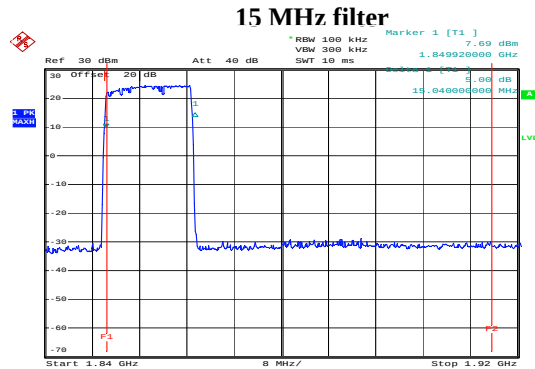
Date: 24.JAN.2008 10:15:24

Date: 24.JAN.2008 10:29:52

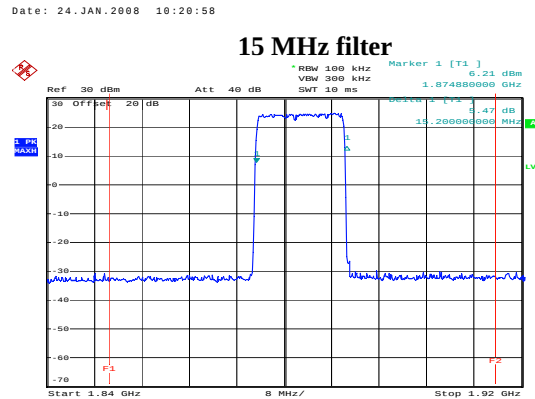
Date: 24.JAN.2008 10:37:57

## Out Of Band Rejection, continued

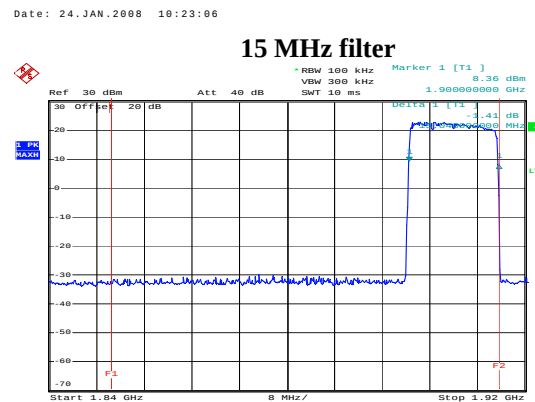
Uplink output



Lower frequencies filter position



Middle frequencies filter position

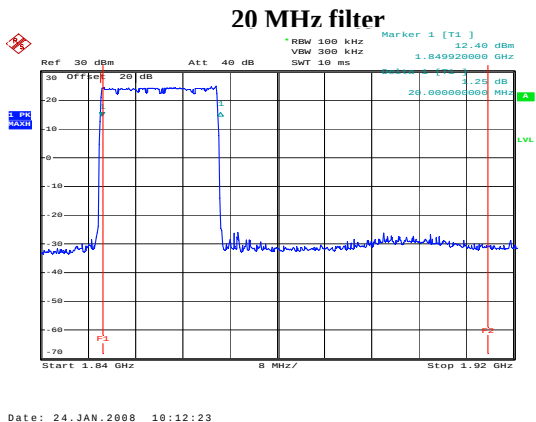


Higher frequencies filter position

Date: 24.JAN.2008 10:44:16

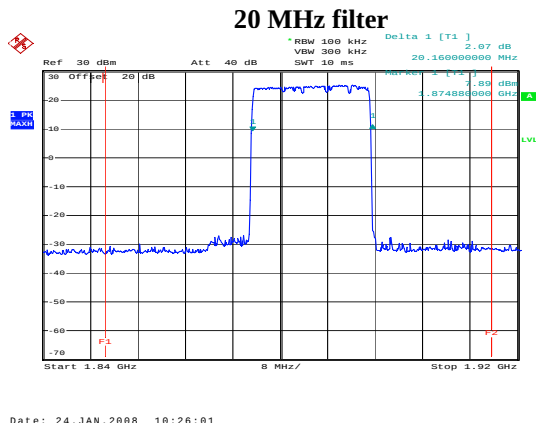
Out Of Band Rejection, continued

Uplink output



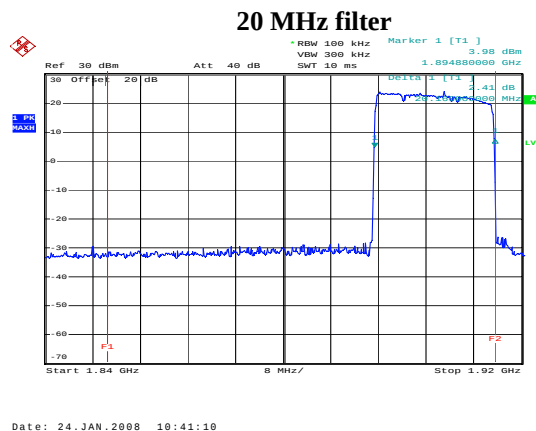
Lower frequencies filter position

Uplink output



Middle frequencies filter position

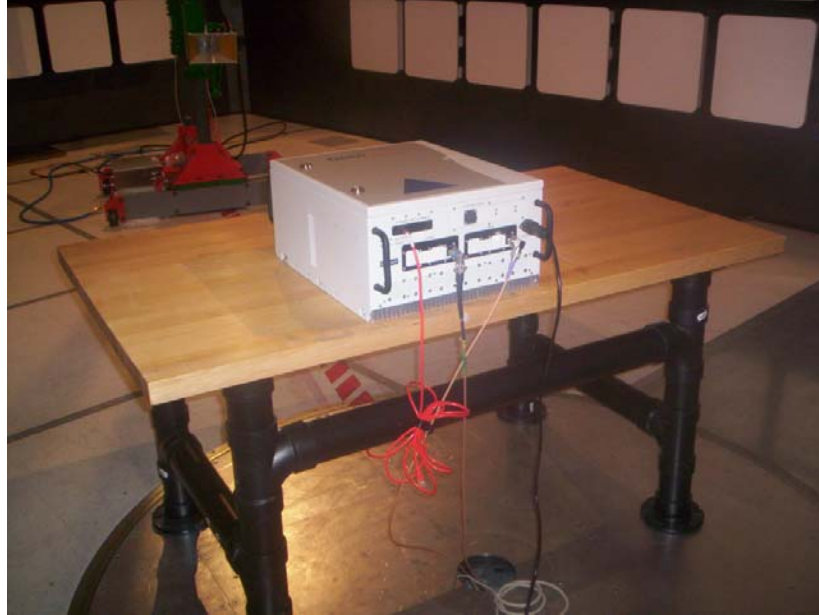
Uplink output



Higher frequencies filter position

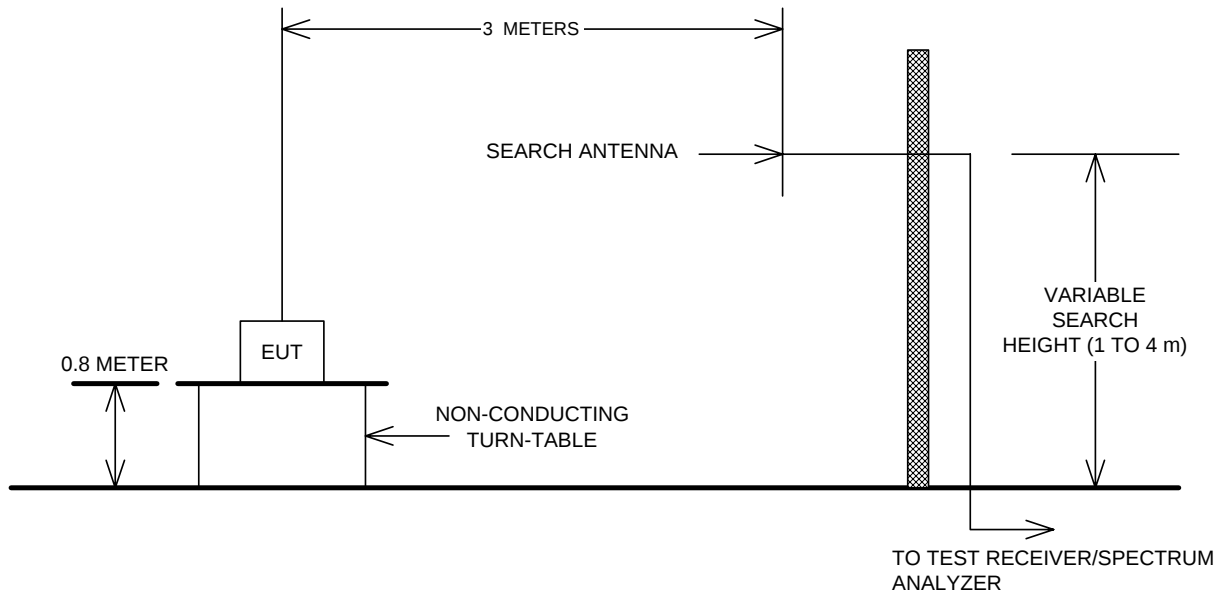
## **Appendix B : Setup Photographs**

### **Radiated Spurious Emissions Setup:**

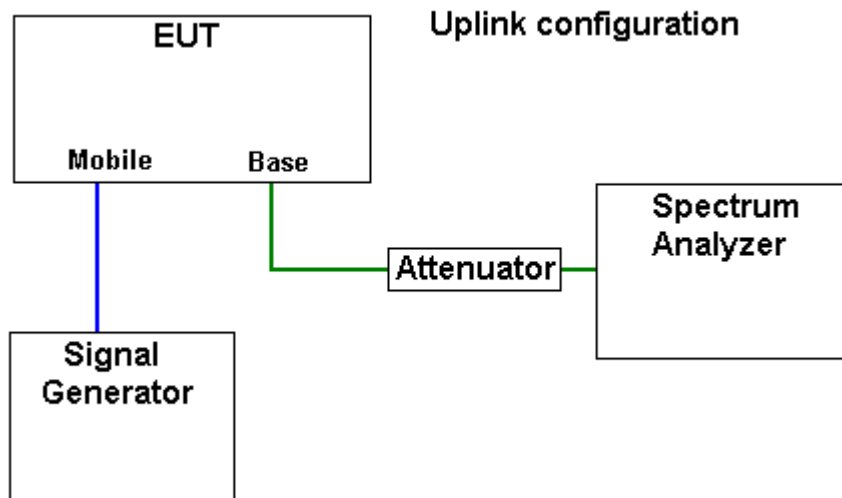


## Appendix C : Block Diagram of Test Setups

### Test Site For Radiated Emissions



### Conducted Emissions, Output power, Occupied Bandwidth and Out of Band Rejection



**Conducted Emissions, Output power, Occupied Bandwidth and Out of Band Rejection, continued**

