

# ATEL

# SUBJECTIVE TESTING

# **OF THE**

# digital HDTV GRAND ALLIANCE SYSTEM

# PICTURE DESCRIPTION

- S1 <u>Metal Tables & Chairs:</u> Overhead view of round tables and chairs on concrete patio stones.
- S5 <u>Tulips:</u> Purple, yellow, pink and white tulips.
- S6 Sculptures: Colourful dinosaurs on wall.
- **S8** Toys: Checkers, Chinese checkers, lego, and paint trays.
- **S9** Girls with Toys: Two girls playing with toys and books, on a rug.
- **S14A** Chesire Cat: Graphic. Three potted plants with Christmas balls, on black and white checkered floor.
- M1 Window: Blowing curtains over kitchen sink.
- M2 Fax Machine: Sending Quarterly report.
- M4 Mannequin: Rotating in display window with stars background
- M5 <u>Living Room:</u> Panning/zooming of camera, from book shelves to stack of art books on table.
- M6 Den: Man getting book off shelf, and sitting on sofa.
- M10 Woman & Room: Woman in green, blue and black argyle sweater getting book, and sitting on sofa.
- M16A <u>Rotating Pyramids:</u> Graphic. Silver mobile with 4 diamonds spinning, on marble background, with text.
- M35 Crosswalk: Lots of people walking through busy intersection.
- M36 Georgetown Loop: Sightseeing train travelling along mountain track.
- M37 Buckingham Palace: Marching guards in red uniforms.
- M38 Snow Tires / Trees: Creek lined with snowy trees.
- M39 End Zone: Olympic procession into stadium.
- M40 Dream Team: Basketball game.
- M41 Golf: Man teeing off.
- M43 <u>Ducks:</u> Lots of ducks and swans swimming in pond.
- M44 Mirror: Woman putting on make-up, class reunion invitation on dresser.
- M45 Christa: Short haired woman walking down sidewalk.
- M46 Fountain: Man and woman splashing at fountain.
- M47 Clock #1: Graphic. Internal mechanics of a clock.
- M48 Connections: Flight details given by man in striped jacket.
- M49 Picnic With Ants: Four people at picnic table with encroaching noise.



## **TESTING CHRONOLOGY**

NTSC INTERFERENCE BASIC QUALITY RECEIVER SCAN CONVERSION MAY 20 - JUNE 5 JUNE 23 - AUGUST 3 AUGUST 14 - 16

## **REPORTING**

INTERIM RESULTS QUALITY / INTERFERENCE REPORT SCAN CONVERSION REPORT FINAL REPORT AS COMPLETED AUGUST 8 AUGUST 29 SEPTEMBER 18



#### **VIEWER SELECTION**

TESTED FOR CORRECT VISION

NO EXPERIENCE WITH VIDEO TECHNOLOGIES

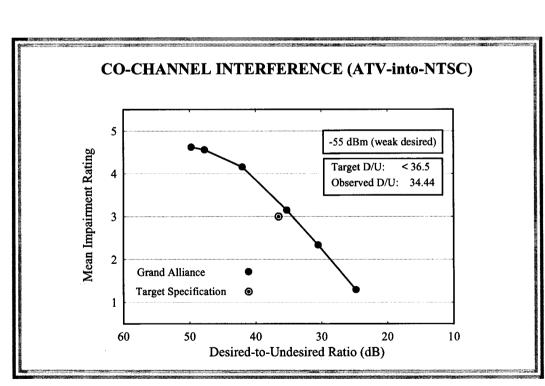
NOT PARTICIPATED IN ATEL TESTS PREVIOUSLY

NEW VIEWERS FOR EACH TEST

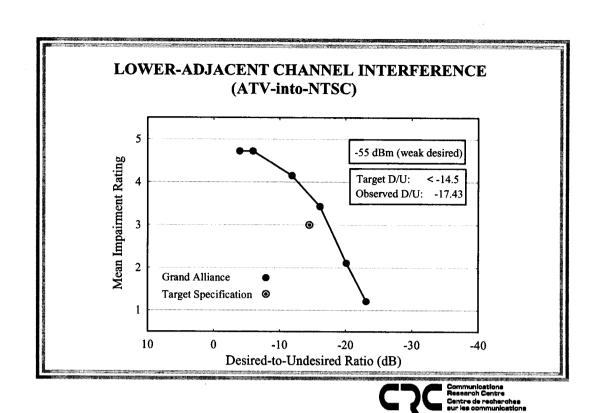


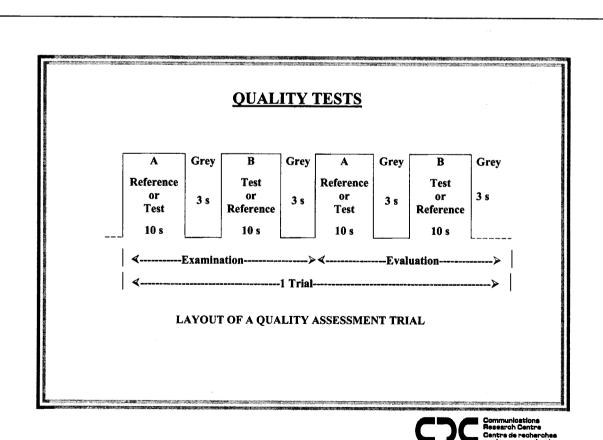
# NTSC INTERFERENCE TESTS Reference Test Grey Grey 10 sec 3 sec 10 sec 7 sec ----Examination---------> <--Evaluation-> -----1 Trial------LAYOUT OF AN INTERFERENCE ASSESSMENT TRIAL IMPERCEPTIBLE PERCEPTIBLE, BUT NOT ANNOYING □ SLIGHTLY ANNOYING $\Box$ **ANNOYING** □ VERY ANNOYING □ THE FIVE - GRADE IMPAIRMENT SCALE

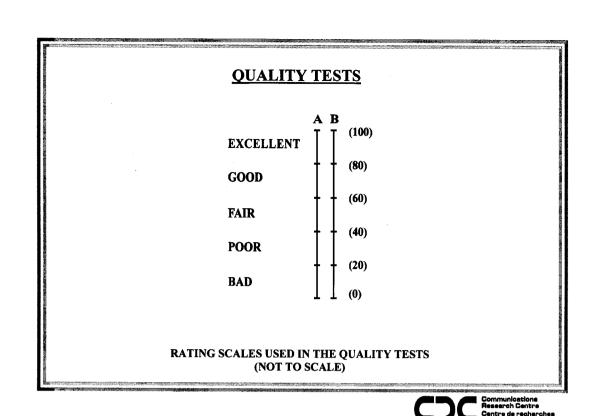


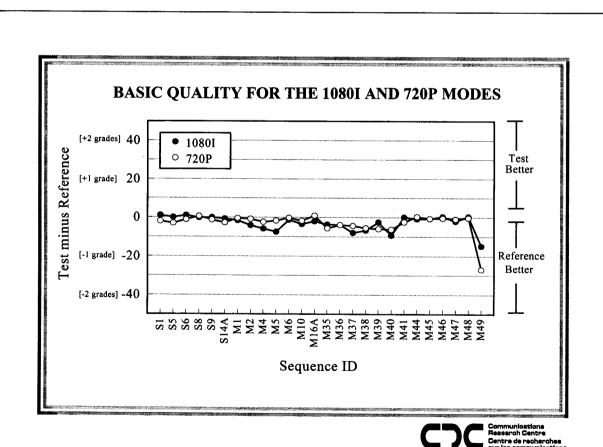


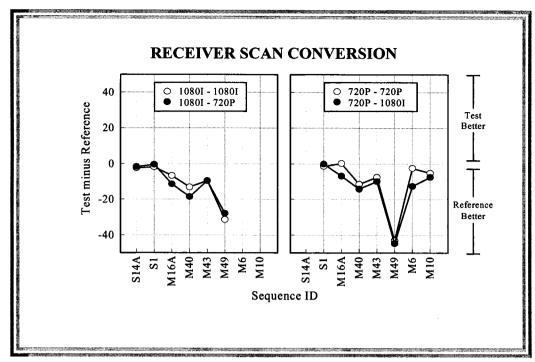














## **SUMMARY**

#### ATV into NTSC INTERFERENCE

FOR SPECIFIED D/U RATIO:

- CO-CHANNEL BETTER THAN CCIR GRADE 3
- LOWER-ADJACENT CHANNEL BETTER THAN CCIR GRADE 3

## **QUALITY TESTS**

TARGET SPECIFICATION EXCEEDED IN ALL CASES

#### **RECEIVER SCAN CONVERSION**

FOR THE MOST CHALLENGING SEQUENCES:

- 1080I to 720P EXCEEDED SPECIFICATION
- 720P to 1080I EXCEEDED SPECIFICATION

