

**COMMITTEE T1**  
**CONTRIBUTION**

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**STANDARDS PROJECT:** Analog Interface Performance Specifications for Digital  
Video Teleconferencing/Video Telephony Service

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**TITLE:** Video Test Scenes

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**ISSUE ADDRESSED:** Subjective and Objective Video Performance Testing

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**SOURCE:** NTIA/ITS

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**DATE:** January 27, 1992

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**DISTRIBUTION TO:** T1Q1.5

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**KEYWORDS:** Video Performance Testing, Objective Quality,  
Subjective Quality

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**DISCLAIMER:**

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*Action item for NTIA to categorize test scenes  
for our next meeting (to be approved by the  
group).*

## **Introduction**

**This contribution presents a list of video test scenes to be considered for subjective and objective video codec testing. Many of the test scenes have been taken from typical VTC/VT applications. Test scenes for other applications (such as entertainment) have also been included. The test scenes that are selected should span the spatial-temporal matrix shown in Table 1 of T1Q1.5/91-132 R1.**

**The following description gives the scene names and starting Time Codes (TC) recorded on two video tapes. The first video tape contains NTIA test sequences that have been used for subjective and objective codec testing at NTIA/ITS in Boulder, CO. Since the NTIA/ITS tests used 9 second segments of the video scenes, the starting time code for each 9 second segment has been included. The second video tape contains CBC test sequences that were used in the 45 Mbps T1Y1.1 tests.**

# NTIA Test Sequences

Start TC                      Start TC - 9 sec segment      Scene Name

00:00		<del>Color Bars</del>
01:00		<del>Resolution Chart</del>
02:00:00	02:01:10	• VTC2 - MP + Map
02:00:00	02:20:29	• VTC2 - Zoom w/Pointer
02:30:00	02:32:00	<del>School of Athens Still</del>
02:30:00	02:50:29	<del>School of Athens Zoom</del>
03:00:00	03:02:00	<del>Space Shuttle</del>
400 03:30:00	03:32:00	<del>Calendar - 9 days</del> 30 DAY Calendar      yes
04:30:00	04:32:00	<del>People at the Lake</del>
05:30:00	05:49:23	• Washington DC Map w/ Pencil
06:00:00	06:06:00	• Three People in a Row - Two Pans
06:30:00	06:31:15	• Bob's Lecture I
07:00:00	07:05:00	• Steve 1 - The Box
07:30:00	07:32:00	<del>Mountain Bike Shop I</del>
08:00:00	08:18:00	• Grand Prix I (Buildings)
08:30:00	08:45:00	• Grand Prix III (Start)
09:00:00	09:17:00	• Two Mountains
09:30:00	09:47:00	<del>Lake I</del>
10:00:00	10:17:00	• Flowers II <i>2nd half</i>
10:30:00	10:46:00	<del>Waterfall</del>
11:00:00	11:02:00	• Two Ducks
11:30:00	11:32:00	• One Duck (Close-up)
12:00:00	12:21:00	<del>Water Bubbling</del>
12:30:00	12:51:00	<del>Moon and Twigs</del>
13:00:00	13:02:00	<del>Lunarios III</del>
13:30:00	13:32:00	• Icecicle
15:30:00	15:44:00	• Cheerleaders
16:00:00	16:05:16	• Cherry Coke on Mountain
16:30:00	16:32:00	<del>Kiel Harbor I</del>
17:00:00	17:02:12	• VTC1 - Take 2 News Story
17:30:00	17:51:00	• Crossword Puzzle
18:00:00	18:21:00	• TV Schedule
18:30:00	18:32:00	<del>Ace of Hearts</del>
19:00:00	19:19:20	• 5 People in a Row I
19:30:00	19:40:00	• 5 People in a Row II

## CBC Test Sequences

### Test Signals

		Time Code (Start) h:mm:ss
1	<del>Colour bars</del>	0:03:06
2	Ramp 1	0:04:06
3	Ramp 2	0:04:36
4	Ramp 3	0:05:06
5	Zone plate 1	0:05:36
6	Zone plate 2	0:06:36

### Basic Quality

7	o Summer flowers (training sequence)	0:07:04
8	<del>Cheerleaders (+triangular noise 40 dB snr)</del>	0:07:33
9	o Flower Garden	0:08:00
10	o Diva with flat noise at 40 dB snr (repeated)	0:08:26
11	<del>Cherry coke superimposed on mountain</del>	0:08:55
12	<del>Popple</del>	0:09:14
13	o Bicycles	0:09:37
14	o Calendar & mobile	0:10:02
15	<del>Kiel Harbour 1</del>	0:10:26
16	o Tempête (leaves)	0:10:51

### Chromakey

17	o Shinjuku (training sequence)	0:11:25
18	<del>Tempête background (training sequence)</del>	0:11:50
19	<del>Clact</del>	0:12:14
20	<del>Balls of wool</del>	0:12:38
21	c Rotating star	0:13:03

### Slow Motion

22	o Ferris wheel (training sequence)	0:13:45
23	o Football	0:14:11
24	<del>Table tennis</del>	0:14:36
25	<del>Bicycle wheels</del>	0:15:03

### Multipass

26	<del>Divas with noise (training sequence)</del>	0:15:33
27	<del>Flower garden</del>	0:16:00
28	<del>Calendar &amp; mobile</del>	0:16:25
29	<del>Kiel Harbour 1</del>	0:16:49

### Error Performance

30	<del>Sailboat (training sequence)</del>	0:17:21
31	o Susie	0:17:44
32	<del>Young couple</del>	0:18:10