

R&S® SMCVB-KS12

ISDB-T Streams

User Manual



1179266002
Version 04

ROHDE & SCHWARZ
Make ideas real



This document describes the following software options:

- R&S®SMCVB-KS12 ISDB-T Streams (1434.4973.xx)

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1179.2660.02 | Version 04 | R&S®SMCVB-KS12

Throughout this document, R&S® is indicated as R&S.

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1 Welcome to the R&S SMCVB-KS12 option

The R&S SMCVB-KS12 is a stream library that provides stream files in accordance with the ISDB-T/ISDB-T_{SB} digital standard.

This user manual contains a reference description of the functionality that the stream library provides. All functions not discussed in this manual are described in the R&S SMCV100B user manual. The latest version is available at:

www.rohde-schwarz.com/manual/SMCV100B

1.1 Key features

The R&S SMCVB-KS12 features:

- Numerous stream files in accordance with ISDB-T/ISDB-T_{SB} digital standard
- Streaming of high-quality video contents
- Streaming of high-quality audio contents
- Efficient use with dedicated streams

1.2 Installation

Required options

The equipment layout for processing files of waveform libraries includes:

- R&S SMCV100B base unit (64 MSample ARB memory, 60 MHz RF bandwidth)
- Broadcast standard option for the "TS Player" application (R&S SMCVB-Kxxx)
- Enable Broadcast Standards option (R&S SMCVB-K519)
- Stream library option (R&S SMCVB-KSxx)

For more information on stream options, see chapter "TS Player section "Required options" in the broadcast standard option user manual of the R&S SMCV100B.

To register for access to the libraries

R&S SMCV100B stream and waveform libraries are available for download for registered users on the "Vector Signal Generator Customer Web" at the global Rohde & Schwarz information system (GLORIS).

1. For access, register at <https://gloris.rohde-schwarz.com>:
In the section "How to register", follow the instructions provided in the introduction video "How to register for GLORIS".
2. Register to GLORIS with the creation of a personal account.

Mr.
 Mrs.
 Ms.
 No information

First Name Last Name

Email

Country City

Company

Reason for registration
 Please tell us the reason for your registration (i.e. which product you have or what kind of information you want to get). If you already have a contact person at Rohde & Schwarz, please add the email address of your contact as well.

Password Retype Password

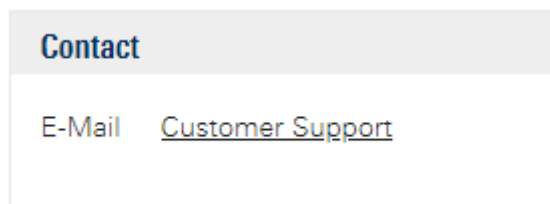
I accept the [Terms of Use](#) for a global Rohde & Schwarz Extranet account
 I accept the following [Marketing Permission](#)
 I want to register for e-commerce

Register Now

3. For access to the "Vector Signal Generator Customer Web", provide the following information:
- Specify that you want access to the "Vector Signal Generator Customer Web".
 - Include the material number and serial number of your device.
The label is located on the rear panel of the R&S SMCV100B.
- a) When using a new GLORIS account, fill the information in the "Reason for registration" field.

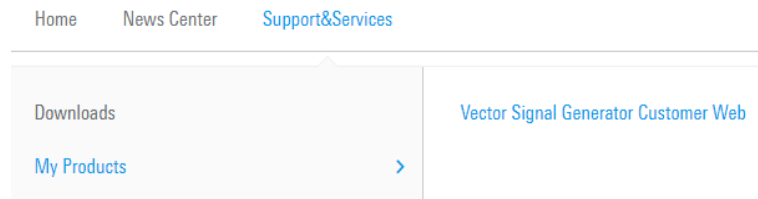


- b) When using an existing GLORIS account, click "Customer support" and fill in the information into an email.



To access "Product Related Documents"

1. Log in to GLORIS.
2. In the menu bar, select "Support&Services > My Products > Vector Signal Generator Customer Web".



The "R&S SMCV100B Customer Web" page opens.

3. In the selection field "Product Selection for VSG", select "R&S®SMCV100B".

A webpage opens and displays search results for products related to the R&S SMCV100B.

Product Related Documents



To download a library file

This procedure describes how to download library files. It provides a step-by-step description for download of a stream library file. The download of waveform library files is analogous.

1. Access the "Product Related Documents" webpage as described in "[To access "Product Related Documents"](#)" on page 6.
2. In the search navigation bar, select "Firm-/Software" > "Waveform & Streams".

The search lists all information related to stream and waveform libraries of the R&S SMCV100B:

- R&S SMCVB-KSxx results relate to stream libraries.
- R&S SMCVB-KVxx results relate to waveform libraries.


You are searching for: Product: R&S®SMCV100B

All Product Documents Firm-/Software



Firmware Software Driver Waveform & Streams Archive

2452 Results available Sort by date ▼

Show options

 **SMCVB-KS10 DAB / T-DMB STREAMS**

Attachments

 SMCVB-KS10 DAB / T-DMB STREAMS  SMCVB-KS10 DAB / T-DMB STREAMS User Manual (download version)

3. Optionally, deactivate the filtering to display all waveform and stream library content.
 - a) On the left menu, select "Show options".
 - b) Click "Filtering on. Reset all filters."

Filtering on. Reset all filters.

4. Optionally, to filter for stream library content enter *KS in the search input field.

You are searching for: Product: R&S®SMCV100B


*KS

All Product Documents Firm-/Software



Firmware Software Driver Waveform & Streams Archive

142 Results available Sort by date ▼

Show options

 **SMCVB-KS10 DAB / T-DMB STREAMS**

Attachments

 SMCVB-KS10 DAB / T-DMB STREAMS  SMCVB-KS10 DAB / T-DMB STREAMS User Manual (download version)

5. In the search result list, navigate to the required library.
6. To download required library files, click the download link in the "Attachments" section of the library product page.
For example, for DAB/T-DMB streams, click the download link "R&S SMCVB-KS10 DAB / T-DMB STREAMS".

A download dialog opens to select and save files of the stream library.

To save a library file

- ▶ Save the library file to one of the following storage locations:
 - External storage device (HDD, memory stick): Use an external USB storage device to save large files or complete libraries. Connect the storage device to one of the USB 3.0 connectors on the rear panel of the R&S SMCV100B. If detected correctly, you can access the files on the R&S SMCV100B in the /usb/ directory in the file-select dialogs.

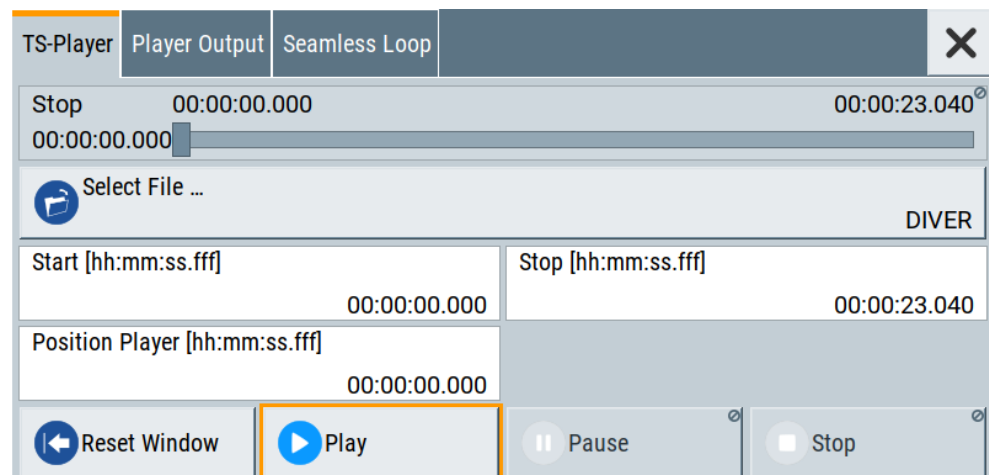
The R&S SMCV100B supports the following storage formats: ext2/ext3/ext4, FAT16/FAT32, NTFS (read-only), ISO9660, UDF

- Internal memory (SSD): Use the internal memory to save single files to the user directory `/var/user/` of the R&S SMCV100B, for example, using FTP via a LAN connection.

To load and play a stream library file

1. Load the file from its storage location:
 - External storage device (HDD, memory stick): Load the file from the `/usb/` directory.
 - Internal memory (SSD): Load the file from the user directory `/var/user/`

Note: Library files are encrypted files. Loading the library file at the R&S SMCV100B requires installation of the corresponding library option. See ["Required options"](#) on page 5.
2. To load the file at the R&S SMCV100B, open the "TS Player" application in digital broadcast standard ("`<Broadcast_Standard>`") dialogs:
 - a) Select "Baseband" > "`<Broadcast_Standard>`" > "Input Signal".
 - b) Select "Source" > "TS Player".
 - c) Select "TS Player" button.
 - d) Select "Select File".
3. To select the file, navigate to the storage location (1).
4. Select "TS-Player" > "Play".



The R&S SMCV100B processes the stream file.

5. Select "`<Broadcast_Standard>`" > "State" > "On", to activate the baseband signal.
6. In the block diagram, select "RF" > "On".

The stream file is modulated onto the RF carrier and output at the "RF 50 Ω " connector.

For more information on loading stream files, see chapter "How to generate an internal TS signal" in the broadcast standard option user manual of the R&S SMCV100B.

1.3 What's new

Compared to the previous version the documentation provides updated installation instructions to access, download and play waveform library files, see [Chapter 1.2, "Installation"](#), on page 5.

1.4 Documentation overview

This section provides an overview of the R&S SMCV100B user documentation. Unless specified otherwise, you find the documents at:

www.rohde-schwarz.com/manual/smcv100b

1.4.1 Getting started manual

Introduces the R&S SMCV100B and describes how to set up and start working with the product. Includes basic operations, typical measurement examples, and general information, e.g. safety instructions, etc. A printed version is delivered with the instrument.

1.4.2 User manuals and help

Separate manuals for the base unit and the software options are provided for download:

- **Base unit manual**
Contains the description of all instrument modes and functions. It also provides an introduction to remote control, a complete description of the remote control commands with programming examples, and information on maintenance, instrument interfaces and error messages. Includes the contents of the getting started manual.
- **Software option manual**
Contains the description of the specific functions of an option. Basic information on operating the R&S SMCV100B is not included.

The contents of the user manuals are available as help in the R&S SMCV100B. The help offers quick, context-sensitive access to the complete information for the base unit and the software options.

All user manuals are also available for download or for immediate display on the internet.

1.4.3 Service manual

Describes the performance test for checking compliance with rated specifications, firmware update, troubleshooting, adjustments, installing options and maintenance.

The service manual is available for registered users on the global Rohde & Schwarz information system (GLORIS):

<https://gloris.rohde-schwarz.com>

1.4.4 Instrument security procedures

Deals with security issues when working with the R&S SMCV100B in secure areas. It is available for download on the internet.

1.4.5 Printed safety instructions

Provides safety information in many languages. The printed document is delivered with the product.

1.4.6 Specifications and product brochures

The specifications document, also known as the data sheet, contains the technical specifications of the R&S SMCV100B. It also lists the firmware applications and their order numbers, and optional accessories.

The brochure provides an overview of the instrument and deals with the specific characteristics.

See www.rohde-schwarz.com/brochure-datasheet/smcv100b

1.4.7 Calibration certificate

The document is available on <https://gloris.rohde-schwarz.com/calcert>. You need the device ID of your instrument, which you can find on a label on the rear panel.

1.4.8 Release notes and open source acknowledgment

The release notes list new features, improvements and known issues of the current software version, and describe the software installation.

The software uses several valuable open source software packages. An open source acknowledgment document provides verbatim license texts of the used open source software.

www.rohde-schwarz.com/firmware/smcv100b

1.4.9 Application notes, application cards, white papers, etc.

These documents deal with special applications or background information on particular topics.

For some application sheets, see also:

www.rohde-schwarz.com/application/smcv100b

1.4.10 Videos

Find various videos on Rohde & Schwarz products and test and measurement topics on YouTube: <https://www.youtube.com/@RohdeundSchwarz>

2 Available transport stream files

This chapter contains a description of the available transport stream files.



2.1 Basic streams

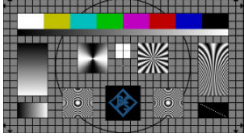
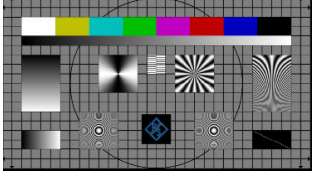
These streams are stored in the `non-BTS` subfolder.



2.1.1 Overview

Each of the ISDB-T transport streams consists of a video elementary stream (MPEG2) and an AAC-LC ADTS audio elementary stream.

The file name gives information about the video information (scene or pattern) and the size (SDTV or HDTV) of the coded video picture.

| Video elementary stream | ISDBT test stream & video elementary stream | |
|---|--|-------|
| | 29 Hz | 59 Hz |
| Codec 4:3 Test Pattern Interlaced 4:3 480 lines /  | SDTV_MPEG_Codec43 Codec43 multiburst 06 Mbps 24 frames | |
| Codec 16:9 Test Pattern Interlaced 16:9 480 lines /  | SDTV_MPEG_Codec169 Codec169 multiburst 06 Mbps 24 frames | |

| | | |
|---|---|---|
| <p>Test Pattern Progressive 16:9 720 lines /</p>  | | <p>HDTV_MPEG_Pattern Pattern 240 frames Note: Rotating white square moving every field (16.683 ms)</p> |
| <p>Test Pattern Interlace 16:9 1080 lines /</p>  | <p>HDTV_MPEG_Pattern Pattern 120 frames Note: Rotating white square moving every field (16.683 ms)</p> | |

| Video elementary stream | ISDBT test stream & video elementary stream | |
|---|--|-------|
| | 29 Hz | 59 Hz |
| <p>Park Interlaced 16:9 1080 lines 576 lines /</p>  | <p>HDTV_MPEG_Park Park 960 frames</p> | |
| <p>Park Interlaced 16:9 480 lines /</p>  | <p>SDTV_MPEG_Park Park 0720 0480i 960 frames 06 Mbps</p> | |

2.1.2 SDTV_MPEG_Codec43 (29 hz)

TSID: 32736 (0x7FE0)

SID: 1024 (0x0400)

Length: 80x24 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.2.1 Video



Figure 2-1: Codec 4:3 test pattern

MPEG2 MP@ML

- 29.97 frames/s
- 480 lines/picture
- 720 pixels/line
- 6 Mbit/s
- Seamless at sequence end
- Moving picture

2.1.2.2 Audio

Sine burst of 400 Hz with 0 dBFS for every 24th frame with a duration of 40 ms. If the "moving spot" is located on the left side (and is moving to the right), the 400 Hz burst sounds in the left channel. If the "moving spot" is located on the right side (and is moving to the left), the 1 kHz burst sounds in the right channel. There is no burst for the remaining time.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.1.3 SDTV_MPEG_Codec169 (29 hz)

TS ID: 32736 (0x7FE0)

SID: 1024 (0x0400)

Length: 80x24 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.3.1 Video

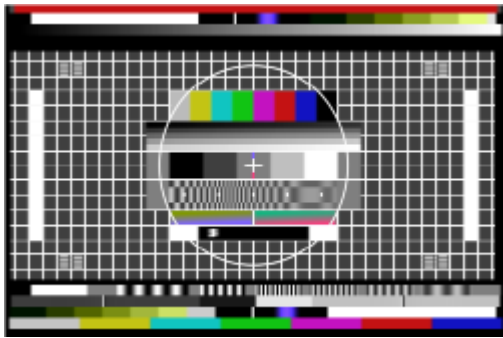


Figure 2-2: Codec 4:3 test pattern

MPEG2 MP@ML

- 29.97 frames/s
- 480 lines/picture
- 720 pixels/line
- 6 Mbit/s
- Seamless at sequence end
- Moving picture

2.1.3.2 Audio

Sine burst of 400 Hz with 0 dBFS for every 24th frame with a duration of 40 ms. If the "moving spot" is located on the left side (and is moving to the right), the 400 Hz burst sounds in the left channel. If the "moving spot" is located on the right side (and is moving to the left), the 1 kHz burst sounds in the right channel. There is no burst for the remaining time.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.1.4 HDTV_MPEG_Pattern (59 hz)

TS ID: 32736 (0x7FE0)

SID: 1024 (0x0400)

Length: 16x120 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.4.1 Video

This test pattern allows you to assess the screen geometry, sharpness, quantization and display of all fields.

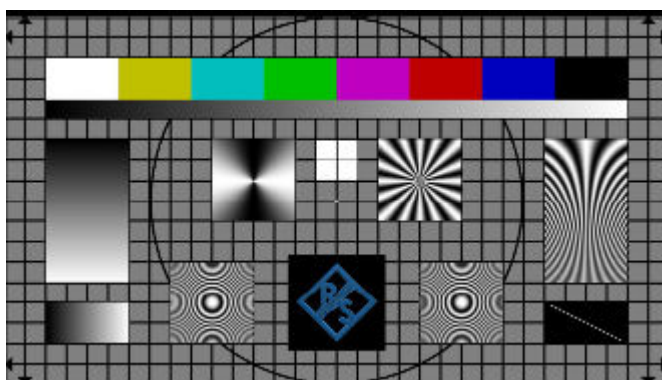


Figure 2-3: Test pattern

MPEG2 MP@HL

- 59.94 frames/s
- 720 lines/picture
- 1280 pixels/line
- 16 Mbit/s
- Seamless at sequence end
- Moving picture

2.1.4.2 Audio

Sine burst of 1 kHz with 0 dBFS at both left and right channel.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.1.5 HDTV_MPEG_Pattern (29 hz)

TS ID: 32736 (0x7FE0)

SID: 1024 (0x400)

Length: 16x120 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.5.1 Video

This test pattern allows you to assess the screen geometry, sharpness, quantization and display of all fields.

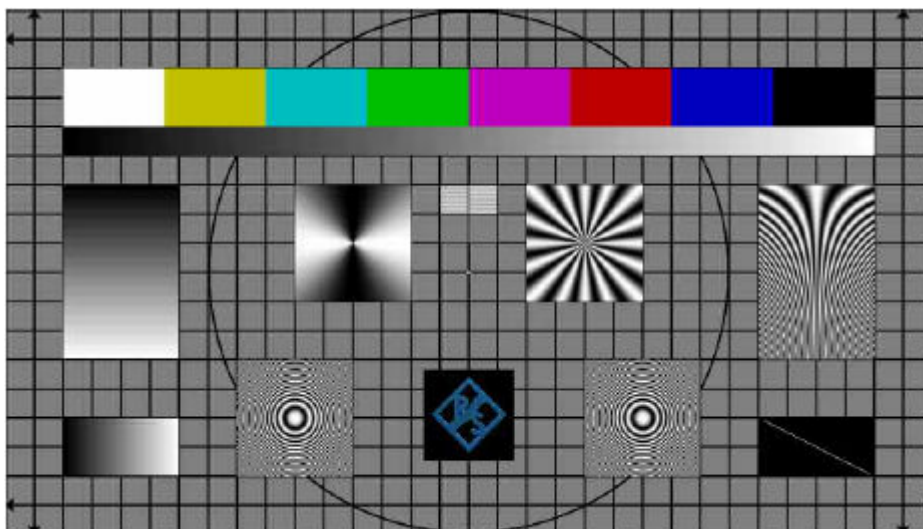


Figure 2-4: Test pattern

MPEG2 MP@HL

- 29.97 frames/s
- 1080 lines/picture
- 1920 pixels/line
- 16 Mbit/s
- Seamless at sequence end
- Moving picture

2.1.5.2 Audio

Sine burst of 1 kHz with 0 dBFS at both left and right channel.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.1.6 SDTV_MPEG_Park (29 hz)

TS ID: 32736 (0x7FE0)

SID: 1024 (0x400)

Length: 2x960 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.6.1 Video

This scene shows many details at a less critical rate of motion.

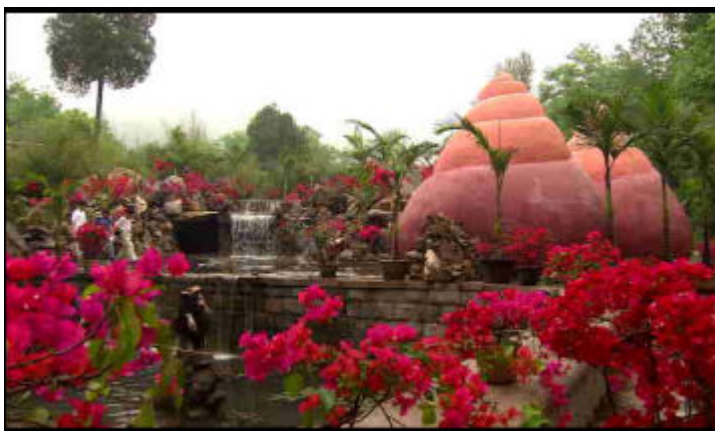


Figure 2-5: Park scene

MPEG2 MP@ML

- 29.97 frames/s
- 480 lines/picture
- 720 pixels/line
- 6 Mbit/s
- Seamless at sequence end
- Moving picture

2.1.6.2 Audio

Background noise at both left and right channel.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.1.7 HDTV_MPEG_Park (29 hz)

TS ID: 32736 (0x7FE0)

SID: 1024 (0x400)

Length: 2x960 video frames (64.064 s)

Tables: ISDB-T

Program

Program number: 1024

Service name: CH 1

2.1.7.1 Video

This scene shows many details at a less critical rate of motion.

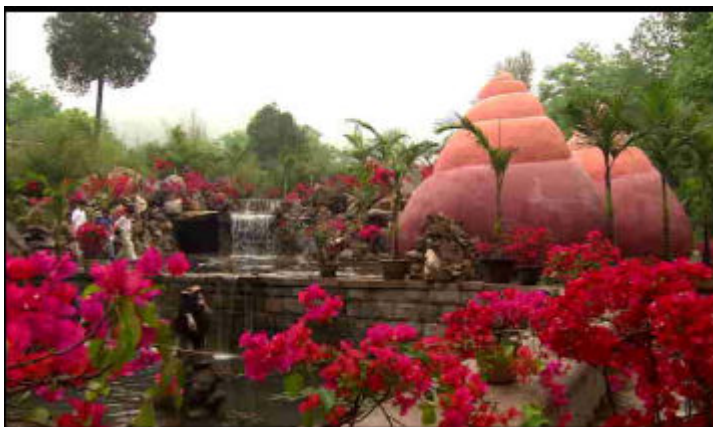


Figure 2-6: Park scene

MPEG2 MP@HL

- 29.97 frames/s
- 1080 lines/picture
- 1920 pixels/line
- 16 Mbit/s

- Seamless at sequence end
- Moving picture

2.1.7.2 Audio

Background noise at both left and right channel.

MPEG4 (AAC-LC ADTS)

- 48 ksample/s
- 144 kbit/s
- Seamless at sequence end
- Stereo

2.2 Country-specific streams

These streams are stored in the `BTS` subfolder.

2.2.1 Brazil

The transport streams described in this chapter comply with the Brazilian ISDB-Tb standard.

2.2.1.1 One*.isdbt_c (1-Layer files)

| Filename | One1 | One2 | One3 | One4 | One5 |
|-------------------------|--------------------------|------|------|------|------|
| Broadcaster prefix | ZYT-999 | | | | |
| Transmission parameters | 1 layer | | | | |
| Mode | Mode 3 (8K) | | | | |
| Guard interval | 1/8 | 1/16 | 1/8 | 1/16 | 1/16 |
| Layer | A | | | | |
| Number of segments | 13 | | | | |
| Modulation | 64QAM | | | | |
| Code rate | 3/4 | 3/4 | 2/3 | 2/3 | 3/4 |
| Time interleaving | 2 | | | | |
| Video | | | | | |
| Type | H.264 High Profile @L4.0 | | | | |

| Filename | One1 | One2 | One3 | One4 | One5 |
|------------------------|------------------------------|---------|---------|---------|-------|
| Content | Pattern | Pattern | Flowers | Flowers | Park |
| Aspect ratio | 16:9 | | | | |
| Resolution | 1920 x 1080 | | | | |
| Frame rate | 30 / 1.001 Hz | | | | |
| Audio | | | | | |
| Type | MPEG-4 HE-AAC v1 L2 | | | | |
| Format | LOAS / LATM | | | | |
| Content | 1 kHz | 1 kHz | Flowers | Flowers | 1 kHz |
| Mode | Stereo | | | | |
| PID information | | | | | |
| Video PID | 0x0201 | | | | |
| Audio PID | 0x0202 | | | | |
| PMT PID | 0x0020 | | | | |
| PCR PID | 0x0200 | | | | |
| IIP | 0x1FF0 | | | | |
| Tables | | | | | |
| PAT | Yes | | | | |
| PMT | Yes | Yes | Yes | Yes | Yes |
| NIT | Yes | Yes | Yes | Yes | Yes |
| SDT | Yes | Yes | Yes | Yes | Yes |
| TOT | Yes | Yes | Yes | Yes | Yes |
| BIT | Yes | Yes | Yes | Yes | Yes |
| CDT | Yes | Yes | Yes | Yes | Yes |
| Program number | 0x70E0 | Yes | Yes | Yes | Yes |
| Network ID | 0x1387 | | | | |
| Area code | 0xA3D (São Paulo) | | | | |
| Frequency | (599 + 1/7) MHz - Channel 35 | | | | |
| Virtual channel | 35.1 | | | | |
| Service name | R&S HD | | | | |
| Number of packets | 387072 | | | | |

| Filename | One1 | One2 | One3 | One4 | One5 |
|----------------------|------|--------|--------|--------|--------|
| BTS frame size | 4608 | 365568 | 387072 | 365568 | 696320 |
| Number of BTS frames | 84 | 4352 | 4608 | 4352 | 4352 |

2.2.1.2 Two1.isdbt_c (2-Layer file)

Corresponds to "Pattern01.ISDBT_C" in former release.

| Filename | Two1.ISDBT_C | |
|--------------------------------|------------------------------|--------------------------|
| Broadcaster prefix | ZYT-999 | |
| Transmission parameters | 2 layers | |
| Mode | Mode 3 (8K) | |
| Guard interval | 1/16 | |
| Layer | A | B |
| Number of segments | 1 | 12 |
| Modulation | QPSK | 64QAM |
| Code rate | 2/3 | 3/4 |
| Time interleaving | 4 | 2 |
| Video | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 |
| Content | Pattern | Pattern |
| Aspect ratio | 4:3 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | |
| Audio | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | |
| Content | 1 kHz | 1 kHz |
| Mode | Stereo | |
| PID information | | |
| Video PID | 0x0201 | 0x0101 |
| Audio PID | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0020 |
| PCR PID | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | |

| Filename | Two1.ISDBT_C | |
|----------------------|------------------------------|---------|
| Tables | Layer A | Layer B |
| PAT | | Yes |
| PMT | Yes | Yes |
| NIT | Yes | |
| SDT | Yes | |
| TOT | Yes | |
| BIT | | |
| CDT | | |
| Program number | 0x70F8 | 0x70E0 |
| Network ID | 0x1387 | |
| Area code | 0xA3D (São Paulo) | |
| Frequency | (599 + 1/7) MHz - Channel 35 | |
| Virtual channel | 35.1 | |
| Service name | R&S 1seg | R&S HD |
| Number of packets | 382976 | |
| BTS frame size | 4352 | |
| Number of BTS frames | 88 | |

2.2.1.3 Two2.isdbt_c (2-Layer file)

Corresponds to "Pattern02.ISDBT_C" in former release.

| Filename | Two2.ISDBT_C | |
|--------------------------------|------------------------------|--------------------------|
| Broadcaster prefix | ZYT-999 | |
| Transmission parameters | 2 layers | |
| Mode | Mode 3 (8K) | |
| Guard interval | 1/16 | |
| Layer | A | B |
| Number of segments | 1 | 12 |
| Modulation | QPSK | 16QAM |
| Code rate | 2/3 | 3/4 |
| Time interleaving | 4 | 2 |
| Video | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 |
| Content | Pattern | Pattern |

| Filename | Two2.ISDBT_C | |
|------------------------|------------------------------|---------------------|
| Aspect ratio | 4:3 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | |
| Audio | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | |
| Content | 1 kHz | 1 kHz |
| Mode | Stereo | |
| PID information | | |
| Video PID | 0x0201 | 0x0101 |
| Audio PID | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0020 |
| PCR PID | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | |
| Tables | Layer A | Layer B |
| PAT | | Yes |
| PMT | Yes | Yes |
| NIT | Yes | |
| SDT | Yes | |
| TOT | Yes | |
| BIT | | |
| CDT | | |
| Program number | 0x70F8 | 0x70E0 |
| Network ID | 0x1387 | |
| Area code | 0xA3D (São Paulo) | |
| Frequency | (599 + 1/7) MHz - Channel 35 | |
| Virtual channel | 35.1 | |
| Service name | R&S 1seg | R&S HD |
| Number of packets | 382976 | |
| BTS frame size | 4352 | |
| Number of BTS frames | 88 | |

2.2.1.4 Two3.isdbt_c (2-Layer file)

Corresponds to "Pattern03.ISDBT_C" in former release.

| Filename | Two3.ISDBT_C | |
|--------------------------------|------------------------------|--------------------------|
| Broadcaster prefix | ZYT-999 | |
| Transmission parameters | 2 layers | |
| Mode | Mode 3 (8K) | |
| Guard interval | 1/8 | |
| Layer | A | B |
| Number of segments | 1 | 12 |
| Modulation | QPSK | 64QAM |
| Code rate | 2/3 | 3/4 |
| Time interleaving | 4 | 2 |
| Video | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 |
| Content | Pattern | Pattern |
| Aspect ratio | 4:3 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | |
| Audio | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | |
| Content | 1 kHz | 1 kHz |
| Mode | Stereo | |
| PID information | | |
| Video PID | 0x0201 | 0x0101 |
| Audio PID | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0020 |
| PCR PID | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | |
| Tables | Layer A | Layer B |
| PAT | | Yes |
| PMT | Yes | Yes |
| NIT | Yes | |
| SDT | Yes | |

| Filename | Two3.ISDBT_C | |
|----------------------|------------------------------|--------|
| TOT | Yes | |
| BIT | | |
| CDT | | |
| Program number | 0x70F8 | 0x70E0 |
| Network ID | 0x1387 | |
| Area code | 0xA3D (São Paulo) | |
| Frequency | (599 + 1/7) MHz - Channel 35 | |
| Virtual channel | 35.1 | |
| Service name | R&S 1seg | R&S HD |
| Number of packets | 405504 | |
| BTS frame size | 4608 | |
| Number of BTS frames | 88 | |

2.2.1.5 Two4.isdbt_c (2-Layer file)

| Filename | Two4.ISDBT_C | |
|--------------------------------|------------------------------|--------------------------|
| Broadcaster prefix | ZYT-999 | |
| Transmission parameters | 2 layers | |
| Mode | Mode 3 (8K) | |
| Guard interval | 1/16 | |
| Layer | A | B |
| Number of segments | 1 | 12 |
| Modulation | QPSK | 64QAM |
| Code rate | 2/3 | 3/4 |
| Time interleaving | 4 | 2 |
| Video | | 2 videos |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 |
| Content | Pattern | Pattern & Flowers |
| Aspect ratio | 4:3 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | |
| Audio | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | |

| Filename | Two4.ISDBT_C | |
|------------------------|------------------------------|-------------------|
| Content | 1 kHz | 1 kHz & Flowers |
| Mode | Stereo | |
| PID information | | |
| Video PID | 0x0301 | 0x0101 & 0x0201 |
| Audio PID | 0x0302 | 0x0102 & 0x0202 |
| PMT PID | 0x1FC8 | 0x0020 & 0x0021 |
| PCR PID | 0x0300 | 0x0100 & 0x0200 |
| IIP | 0x1FF0 | |
| Tables | Layer A | Layer B |
| PAT | | Yes |
| PMT | Yes | Yes |
| NIT | Yes | |
| SDT | Yes | |
| TOT | Yes | |
| BIT | Yes | |
| CDT | Yes | |
| Program number | 0x70F8 | 0x70E0 & 0x70E1 |
| Network ID | 0x1387 | |
| Area code | 0xA3D (São Paulo) | |
| Frequency | (599 + 1/7) MHz - Channel 35 | |
| Virtual channel | 35.1 | 35.1 & 35.2 |
| Service name | R&S 1seg | R&S HD1 & R&S HD2 |
| Number of packets | 426496 | |
| BTS frame size | 4352 | |
| Number of BTS frames | 98 | |

2.2.1.6 Two5.isdbt_c (2-Layer file)

| Filename | Two5.ISDBT_C | |
|--------------------------------|--------------|---|
| Broadcaster prefix | ZYT-999 | |
| Transmission parameters | 2 layers | |
| Mode | Mode 3 (8K) | |
| Guard interval | 1/16 | |
| Layer | A | B |

| Filename | Two5.ISDBT_C | |
|------------------------|------------------------------|---------------------|
| Number of segments | 6 | 7 |
| Modulation | 16QAM | 64QAM |
| Code rate | 1/2 | 3/4 |
| Time interleaving | 2 | 2 |
| Video | | |
| Type | H.264 High Profile @L4.0 | |
| Content | Park | Flowers |
| Aspect ratio | 16:9 | |
| Resolution | 1920 x 1080 | |
| Frame rate | 30 / 1.001 Hz | |
| Audio | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | |
| Content | 1 kHz | 1 kHz & Flowers |
| Mode | Stereo | |
| PID information | | |
| Video PID | 0x0101 | 0x0201 |
| Audio PID | 0x0102 | 0x0202 |
| PMT PID | 0x0020 | 0x0021 |
| PCR PID | 0x0100 | 0x0200 |
| IIP | 0x1FF0 | |
| Tables | Layer A | Layer B |
| PAT | Yes | |
| PMT | Yes | Yes |
| NIT | Yes | |
| SDT | Yes | |
| TOT | Yes | |
| BIT | Yes | |
| CDT | Yes | |
| Program number | 0x70E0 | 0x70E1 |
| Network ID | 0x1387 | |
| Area code | 0xA3D (São Paulo) | |
| Frequency | (599 + 1/7) MHz - Channel 35 | |

| | | |
|----------------------|---------------------|----------|
| Filename | Two5.ISDBT_C | |
| Virtual channel | 35.1 | 35.2 |
| Service name | R&S HD A | R&S HD B |
| Number of packets | 435200 | |
| BTS frame size | 4352 | |
| Number of BTS frames | 100 | |

2.2.1.7 Three1.isdbt_c (3-Layer file)

| | | | |
|--------------------------------|------------------------------|--------------------------|--------------------------|
| Filename | Three1.ISDBT_C | | |
| Broadcaster prefix | ZYT-999 | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 3 | 9 |
| Modulation | QPSK | 16QAM | 64QAM |
| Code rate | 2/3 | 3/4 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Park | Pattern | Flowers |
| Aspect ratio | 4:3 | 16:9 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | 1 kHz | 1 kHz | Flowers |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |

| Filename | Three1.ISDBT_C | | |
|----------------------|------------------------------|----------------|----------------|
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| BIT | Yes | | |
| CDT | Yes | | |
| Program number | 0x70F8 | 0x70E1 | 0x70E0 |
| Network ID | 0x1387 | | |
| Area code | 0xA3D (São Paulo) | | |
| Frequency | (599 + 1/7) MHz - Channel 35 | | |
| Virtual channel | 35.1 | 35.2 | 35.1 |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 435200 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 100 | | |

2.2.1.8 Three2.isdbt_c (3-Layer file)

| Filename | Three2.ISDBT_C | | |
|-------------------------|----------------|-------|-------|
| Broadcaster prefix | ZYT-999 | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 6 | 6 |
| Modulation | QPSK | 64QAM | 64QAM |
| Code rate | 1/2 | 2/3 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |

| Filename | Three2.ISDBT_C | | |
|------------------------|------------------------------|--------------------------|--------------------------|
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Flowers | Pattern | Park |
| Aspect ratio | 4:3 | 16:9 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | Flowers | 1 kHz | 1 kHz |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| BIT | Yes | | |
| CDT | Yes | | |
| Program number | 0x70F8 | 0x70E1 | 0x70E0 |
| Network ID | 0x1387 | | |
| Area code | 0xA3D (São Paulo) | | |
| Frequency | (599 + 1/7) MHz - Channel 35 | | |
| Virtual channel | 35.1 | 35.2 | 35.1 |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 435200 | | |

| | |
|----------------------|-----------------------|
| Filename | Three2.ISDBT_C |
| BTS frame size | 4352 |
| Number of BTS frames | 100 |

2.2.1.9 Three3.isdbt_c (3-Layer file)

| | | | |
|--------------------------------|------------------------------|--------------------------|--------------------------|
| Filename | Three3.ISDBT_C | | |
| Broadcaster prefix | ZYQ-327 | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 3 | 9 |
| Modulation | DQPSK | 16QAM | 64QAM |
| Code rate | 2/3 | 3/4 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Park | Pattern | Flowers |
| Aspect ratio | 4:3 | 16:9 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | 1 kHz | 1 kHz | Flowers |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |

| Filename | Three3.ISDBT_C | | |
|----------------------|------------------------------|----------------|----------------|
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x9FF8 | 0x9FE1 | 0x9FE0 |
| Network ID | 0xCFF | | |
| Area code | 0xA3F (Santos - São Paulo) | | |
| Frequency | (539 + 1/7) MHz - Channel 25 | | |
| Virtual channel | 44.1 | 44.2 | 44.1 |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 435200 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 100 | | |

2.2.1.10 Three4.isdbt_c (3-Layer file)

| Filename | Three4.ISDBT_C | | |
|--------------------------------|------------------------------|--------------------------|--------------------------|
| Broadcaster prefix | ZYQ-327 | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 6 | 6 |
| Modulation | DQPSK | 64QAM | 64QAM |
| Code rate | 1/2 | 2/3 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Flowers | Pattern | Park |
| Aspect ratio | 4:3 | 16:9 | 16:9 |
| Resolution | 320 x 240 | 1920 x 1080 | 1920 x 1080 |
| Frame rate | 30 / 1.001 Hz | | |

| | | | |
|------------------------|------------------------------|---------------------|---------------------|
| Filename | Three4.ISDBT_C | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | Flowers | 1 kHz | 1 kHz |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x9FF8 | 0x9FE1 | 0x9FE0 |
| Network ID | 0xCFF | | |
| Area code | 0xA3F (Santos - São Paulo) | | |
| Frequency | (539 + 1/7) MHz - Channel 25 | | |
| Virtual channel | 10.1 | 10.2 | 10.1 |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 435200 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 100 | | |

2.2.2 Argentina

2.2.2.1 Arg_conf01.isdbt_c (3-Layer file)

| | | | |
|--------------------------------|--|--|--|
| Filename | Arg_conf01.ISDBT_C | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 3 | 9 |
| Modulation | QPSK | 16QAM | 64QAM |
| Code rate | 2/3 | 3/4 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Flowers 84.4 kbps 320 frames 21.355 s | Codec43 2.76 Mbps 24 frames 0.96 s | Flowers 11.3 Mbps 960 frames 38.4 s |
| Aspect ratio | 4:3 | 4:3 | 16:9 |
| Resolution | 352 x 288 | 720 x 576 i | 1920 x 1080 i |
| Frame rate | 15 / 1.001 Hz | 25 Hz | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | Music Flower 48.1 kbps 918 frames 39.168 s | Tone (L1k, R1kHz) @ -6 dB 64 kbps 1409 frames 60.117 s | Music Flower 64 kbps 917 frames 39.125 s |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | | |

| Filename | Arg_conf01.ISDBT_C | | |
|----------------------|------------------------|----------------|----------------|
| PAT | | Layer B | Layer C |
| PMT | Yes | Yes | |
| NIT | Yes | Yes | Yes |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x70F8 | | |
| Network ID | 0x1387 | 0x70E1 | 0x70E0 |
| Area code | 2621 | | |
| Frequency | CH UHF user selectable | | |
| Virtual channel | 35 | | |
| Service name | R&S 1seg | | |
| Number of packets | 765952 | R&S SD Layer B | R&S HD Layer C |
| BTS frame size | 4352 | | |
| Number of BTS frames | 176 | | |

2.2.2.2 Arg_conf02.isdbt_c (3-Layer file)

| Filename | Arg_conf02.ISDBT_C | | |
|--------------------------------|--|---------------------------------------|-------------------------------------|
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 6 | 6 |
| Modulation | QPSK | 64QAM | 64QAM |
| Code rate | 1/2 | 2/3 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | FlowerLogo 310 kbps 640 frames 21.355 s | Codec169 2.8 Mbps 24 frames 0.96 s | Mcobar 5.7 Mbps 160 frames 6.4 s |
| Aspect ratio | 16:9 | 16:9 | 16:9 |
| Resolution | 320 x 180 | 720 x 576 i | 1920 x 1080 i |
| Frame rate | 30 / 1.001 Hz | 25 Hz | |

| | | | |
|------------------------|--|--|---|
| Filename | Arg_conf02.ISDBT_C | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | Tone (L1k, R1kHz) @ -6 dB 48 kbps 1410 frames 60.160 s | Tone (L1k, R1kHz) @ -6 dB 64 kbps 1409 frames 60.117 s | [1*] 160 kbps 1002 frames 42.752 s |
| Mode | Stereo | | 5.1 |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x70F8 | 0x70E1 | 0x70E0 |
| Network ID | 0x1387 | | |
| Area code | 2621 | | |
| Frequency | CH UHF user selectable | | |
| Virtual channel | 35 | | |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 382976 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 88 | | |

1*) L= 1kHz, R=3kHz, RL=4kHz, RR=5kHz, C=2kHz, W=100Hz

2.2.2.3 Arg_conf03.isdbt_c (3-Layer file)

| | | | |
|--------------------------------|--|---|---|
| Filename | Arg_conf03.ISDBT_C | | |
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 3 | 9 |
| Modulation | QPSK | 16QAM | 64QAM |
| Code rate | 2/3 | 3/4 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Hockey | Hockey 5.9 Mbps 1920 frames 38.4 s | Hockey 11.8 Mbps 1920 frames 38.4 s |
| Aspect ratio | 16:9 | 16:9 | 16:9 |
| Resolution | 320 x 180 | 720 x 576 p | 1280 x 720 p |
| Frame rate | 30 / 1.001 Hz | 50 Hz | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |
| Format | LOAS / LATM | | |
| Content | Tone (L1k, R1kHz) @ -6 dB 48 kbps 1410 frames 60.160 s | Hockey 160 kbps 1002 frames 42.752 s | Hockey 160 kbps 1002 frames 42.752 s |
| Mode | Stereo | 5.1 | |
| PID information | | | |
| Video PID | 0x0301 | 0x0201 | 0x0101 |
| Audio PID | 0x0302 | 0x0202 | 0x0102 |
| PMT PID | 0x1FC8 | 0x0021 | 0x0020 |
| PCR PID | 0x0300 | 0x0200 | 0x0100 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |

| Filename | Arg_conf03.ISDBT_C | | |
|----------------------|------------------------|----------------|----------------|
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x70F8 | 0x70E1 | 0x70E0 |
| Network ID | 0x1387 | | |
| Area code | 2621 | | |
| Frequency | CH UHF user selectable | | |
| Virtual channel | 25 | | |
| Service name | R&S 1seg | R&S SD Layer B | R&S HD Layer C |
| Number of packets | 652800 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 150 | | |

2.2.2.4 Arg_conf04.isdbt_c (3-Layer file)

| Filename | Arg_conf04.ISDBT_C | | |
|--------------------------------|---|---------------------------------------|--|
| Transmission parameters | 3 layers | | |
| Mode | Mode 3 (8K) | | |
| Guard interval | 1/16 | | |
| Layer | A | B | C |
| Number of segments | 1 | 6 | 6 |
| Modulation | QPSK | 64QAM | 64QAM |
| Code rate | 1/2 | 2/3 | 3/4 |
| Time interleaving | 4 | 2 | 2 |
| Video | | | |
| Type | H.264 Baseline Profile @L1.3 | H.264 High Profile @L4.0 | H.264 High Profile @L4.0 |
| Content | Flowers 461 kbps 640 frames 21.355 s | Codec43 851 kbps 24 frames 0.801 s | Flowers 11.3 Mbps 640 frames 21.355 s |
| Aspect ratio | 4:3 | 4:3 | 16:9 |
| Resolution | 320 x 240 | 720 x 480 i | 1920 x 1080 i |
| Frame rate | 30 / 1.001 Hz | | |
| Audio | | | |
| Type | MPEG-4 HE-AAC v2 L2 | MPEG-4 HE-AAC v1 L2 | MPEG-4 HE-AAC v1 L2 |

| | | | |
|------------------------|--|--|--|
| Filename | Arg_conf04.ISDBT_C | | |
| Format | LOAS / LATM | | |
| Content | Tone (L1k, R1kHz) @ -6 dB 48 kbps 1410 frames 60.160 s | Tone (L1k, R1kHz) @ -6 dB 64 kbps 1409 frames 60.117 s | Tone (L1k, R1kHz) @ -6 dB 64 kbps 1409 frames 60.117 s |
| Mode | Stereo | | |
| PID information | | | |
| Video PID | 0x0301 | 0x0101 | 0x0201 |
| Audio PID | 0x0302 | 0x0102 | 0x0202 |
| PMT PID | 0x1FC8 | 0x0103 | 0x0203 |
| PCR PID | 0x0300 | 0x0100 | 0x0200 |
| IIP | 0x1FF0 | | |
| Tables | Layer A | Layer B | Layer C |
| PAT | | Yes | |
| PMT | Yes | Yes | Yes |
| NIT | Yes | | |
| SDT | Yes | | |
| TOT | Yes | | |
| Program number | 0x70F8 | 0x70E1 | 0x70E0 |
| Network ID | 0x1387 | | |
| Area code | 2621 | | |
| Frequency | CH UHF user selectable | | |
| Virtual channel | 35 | | |
| Service name | R&S 1seg | R&S HD Layer B | R&S HD Layer C |
| Number of packets | 452608 | | |
| BTS frame size | 4352 | | |
| Number of BTS frames | 104 | | |

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