### **R&S®TA-TRS Sequencer**

# RF performance testing for TV, radio and satellite receivers

In line with EN 303340 EN 303345 EN 303372-2



## R&S®TA-TRS Sequencer At a glance

R&S®TA-TRS is a sequencer test software that further enhances seamless RF test experience for broadcast receivers. It features a user-friendly interface and unique test configurations such as loss compensation, multiple interfering signals, and smart learning of DUT control by infrared remote control.

Incorporated with the R&S°BTC broadcast test center, R&S°VTx platforms and other Rohde&Schwarz broadcast signal generators, R&S°TA-TRS offers users easy execution and management of test cases for product validation and production testing.

R&S®TA-TRS sequencer is based on the ETSI RED requirements for TV, radio and satellite receivers as specified in ETSI EN 303340, EN 303345 and EN 303372-2.

R&S®TA-TRS sequencer supports composite, HDMI™ and camera inputs for a comprehensive solution for video and audio quality analysis. With R&S®TA-TRS reducing the required testing and development time, thus effectively lowers investment, maintenance costs and increases manpower efficiency.

### **Key facts**

### Automated testing in line with EN303340, EN303345, EN303372-2

- Automated image comparisons with reference image and perceptual evaluation of video quality
- Optional camera solution for automated error detections
- Modern intuitive GUI with signal path compensation
- Ease of report generation

#### All-in-one broadcast solution

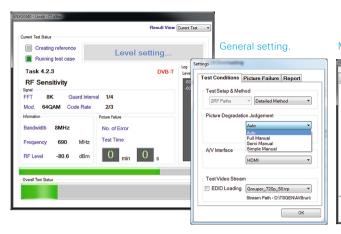
- Support RF signals generations of all global broadcasting standards and real-time interference signal generations
- Support DUT audio and video analysis

Simplified setup for EN303340.

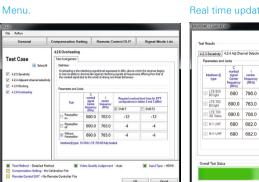


### Benefits and key features

FN303340 test mode.



- User-friendly selection for test execution with path compensation
- Perceptual evaluation of video and audio quality using
- Ensure reproducibility and consistency in test results
- Efficient utilization of resources
- Reduces time and cost of testing
- Ability to re-test failed test case
- Ability to resume test



#### Real time update of results.

Parameters an						
Interferer (I)	C wanted signal Center frequency (MHz)	centre frequency (MHz)	Minimum required I/C limit (where I = Bic) for DTT configurations (dB)		Measured I/C for DTT configurations in tables 2 and 3 (dB)	
			☑ DVB-T	DVB-T2	☑ DVB-T	DV8-T2
LTE 800 BS light	690	796.0	35	N/A	63.7	N/A
LTE 700 BS light	690.0	763.0	43	N/A	Testing	N/A
LTE 700 UE Video	690.0	708.0	33	N/A		N/A
₩ N-1 UHF	690	682.0	25	N/A		N/A
₩ N+1 UHF	690	682.0	25	N/A		N/A

### Specifications in brief 1)

EN 303340 (v1.1.2)	Availability in R&S®TA-TRS
Receiver sensitivity	yes
Receiver adjacent channel selectivity	yes
Receiver blocking	yes
Receiver overloading	yes
Unwanted emissions in the spurious domain	no, but available in R&S°TS8996 RSE test system
EN 303345 <sup>2)</sup>	
Sensitivity	yes
Receiver adjacent channel selectivity and blocking	yes
Unwanted emissions in the spurious domain	no, but available in R&S°TS8996 RSE test system
EN 303 372-2 (v1.1.1)	
Adjacent signal selectivity	yes
Dynamic range	yes

<sup>1)</sup> All information stated in brochure is correct at time of printing and subject to change without notice.

### **Ordering information**

Designation	Туре	Order No.					
R&S®TA-TRS							
ETSI Broadcast RED for R&S°TRS – R&S°BTC	R&S®QS-ETS	1528.9103.02					
ETSI Broadcast RED for R&S®TRS – multi instruments	R&S®QS-ETM	1528.9110.02					
Upgrade to R&S®QS-ETM	R&S®QS-ETMU	1528.9126.02					
R&S®AVBCam							
Camera Package	R&S®BTC-Z3329	2114.7964.02					
Camera Software Support	R&S®BTC-KT3332	2114.8090.02					

<sup>&</sup>lt;sup>2)</sup> EN303345 is not yet published, R&S°TA-TRS supports conducted test method only.

#### Service that adds value

- Customized and flexible
- Uncompromising quality
- Long-term dependability

#### Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, secure communications, cybersecurity, monitoring and network testing. Founded more than 80 years ago, the independent company which is headquartered in Munich, Germany, has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

### Sustainable product design

- Environmental compatibility and eco-footprint
- Energy efficiency and low emissions
- Longevity and optimized total cost of ownership

Certified Quality Management ISO 9001

Certified Environmental Management ISO 14001

### Rohde & Schwarz Asia Pte. Ltd.

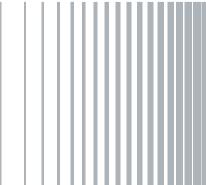
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