

- Modulation Analysis, including Constellation Diagram, MER & EVM versus carriers
- RF Parameters with frequency offset
- OFDM Parameters, including Bit Rates
- Spectrum analysis
- CCDF linearity analysis
- Group Delay analysis
- Content IP-streaming

4T2 RF-Analyser application complex measurement parameters



- Coverage measurements of up to three channels simultaneously
- SFN analysis with transmitter-power, -delay, and -frequency-offset measurements
- Bit Error Rates long term data logging

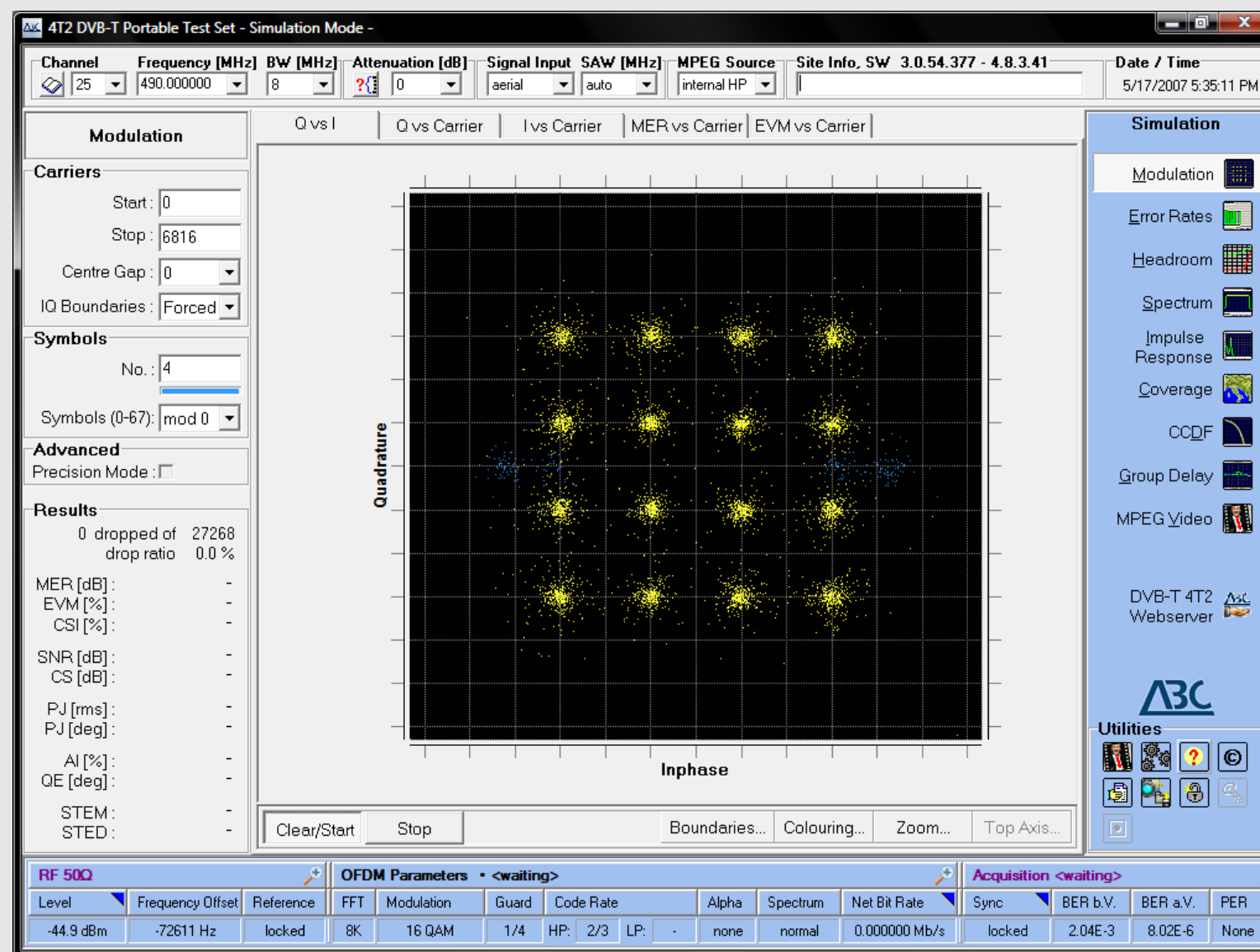
Comprehensive COFDM evaluation with reliable results up to 42 dB MER.

Real-time display of:

- MER, EVM, Phase Jitter
- Amplitude Imbalance
- Carrier Supression
- Signal to Noise Ratio
- QE, STE

Available Diagrams:

- Constellation (Q vs I)
- Q, I vs Carriers
- MER, EVM vs Carriers



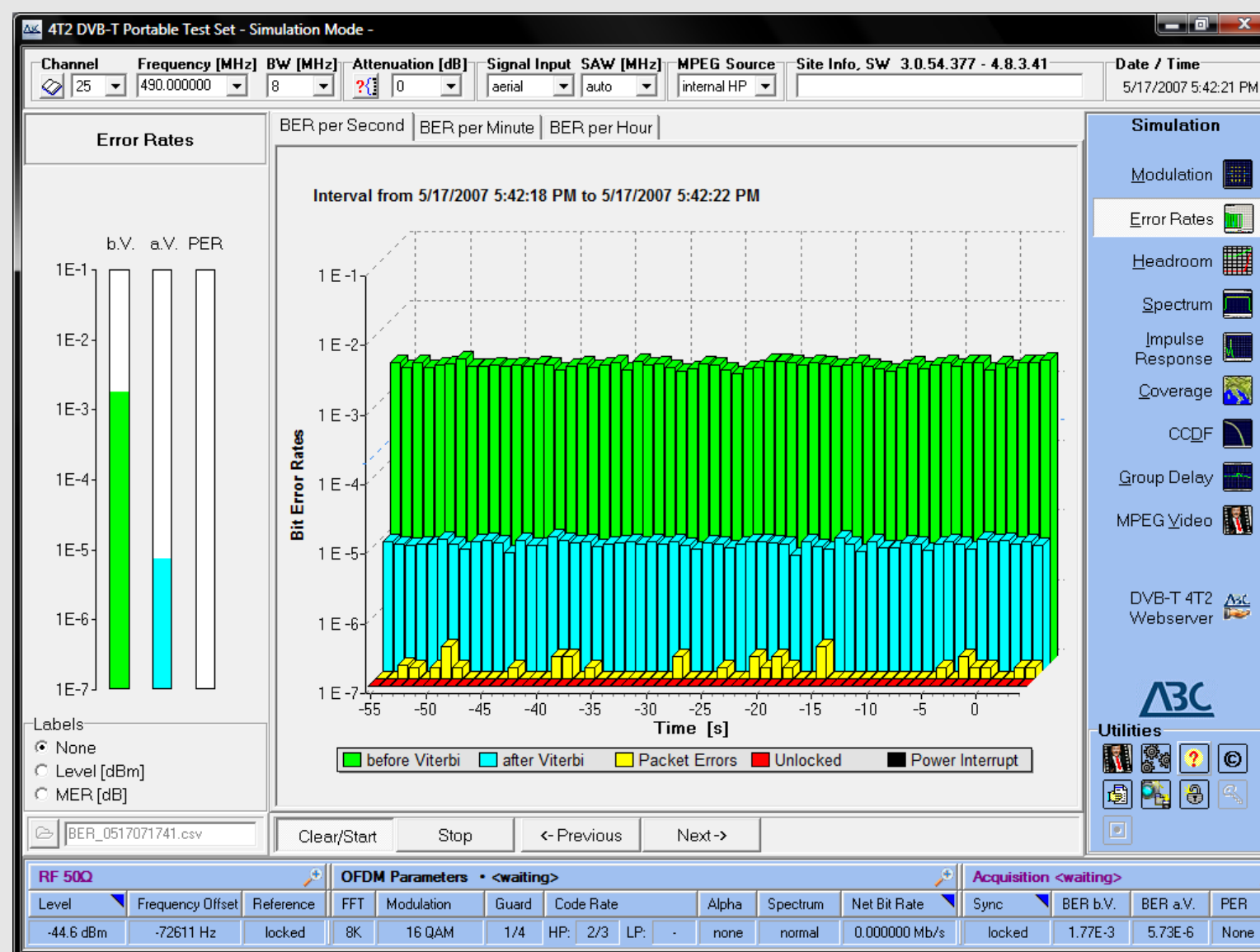
Long-term data logging and analysis of Bit Error performance.

Real-time display of:

- BER before / after Viterbi
- Packet Errors
- MER, Input Level

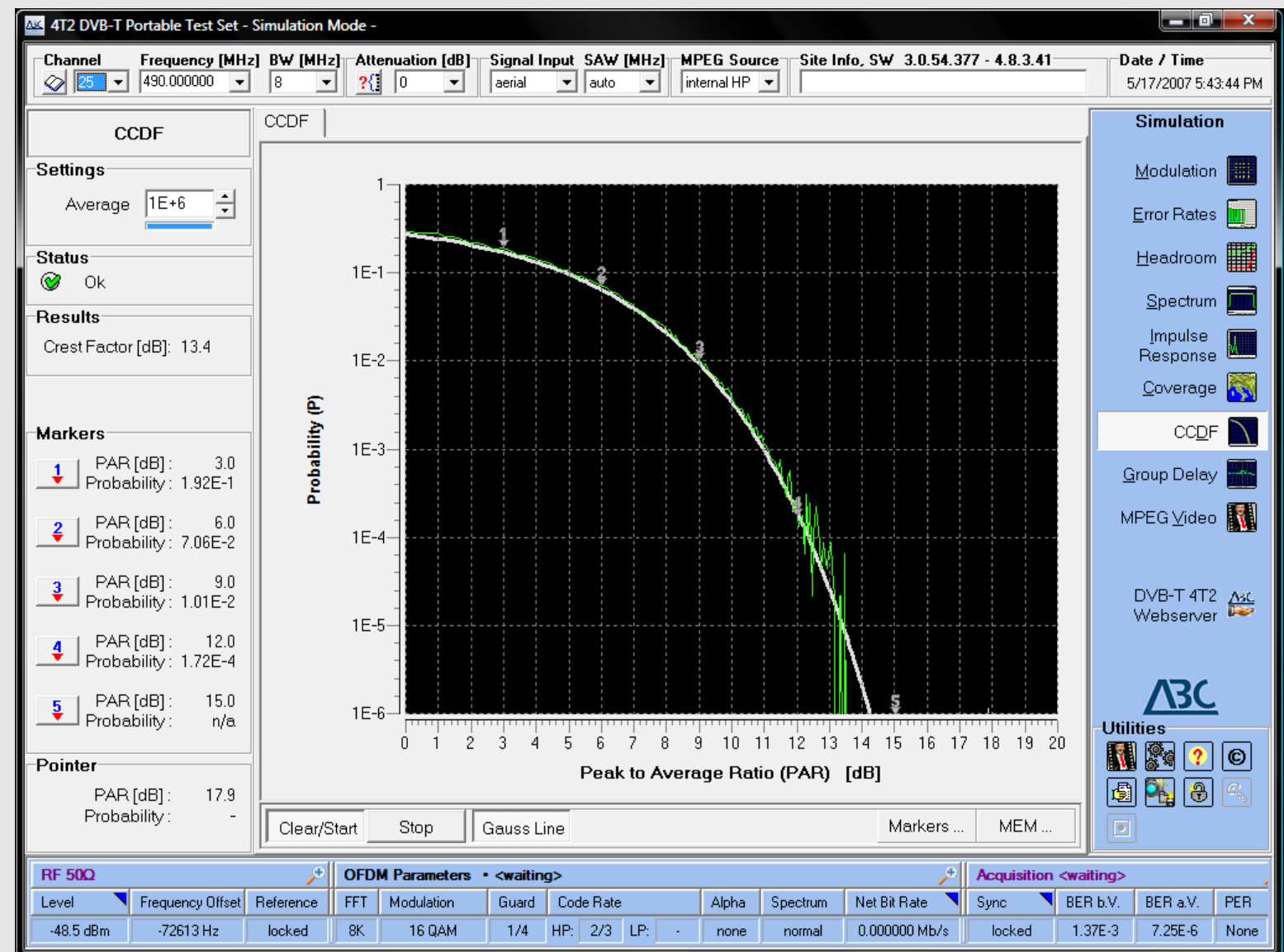
Features:

- Stacked-Bar Graph visualisation
- Infinite Data logging
- (csv, ASCII format)



Show amplifier linearity at a glance and provide an easy to use tool to support correction setup.

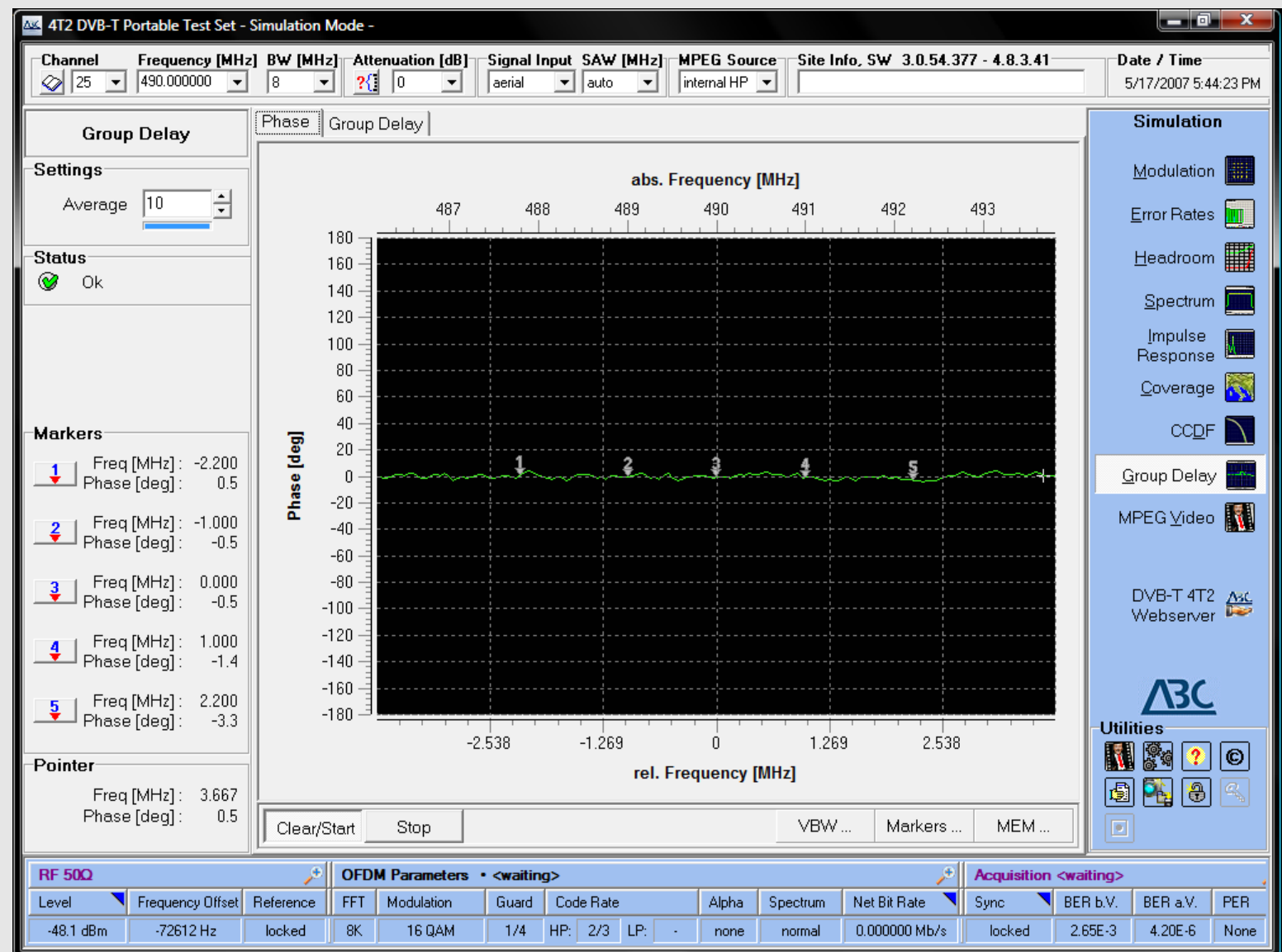
- Variable zoom levels
- 5 markers with absolute / delta readings
- Gaussian distribution display
- Crest Factor readout
- Screen memory



Qualify filter performance

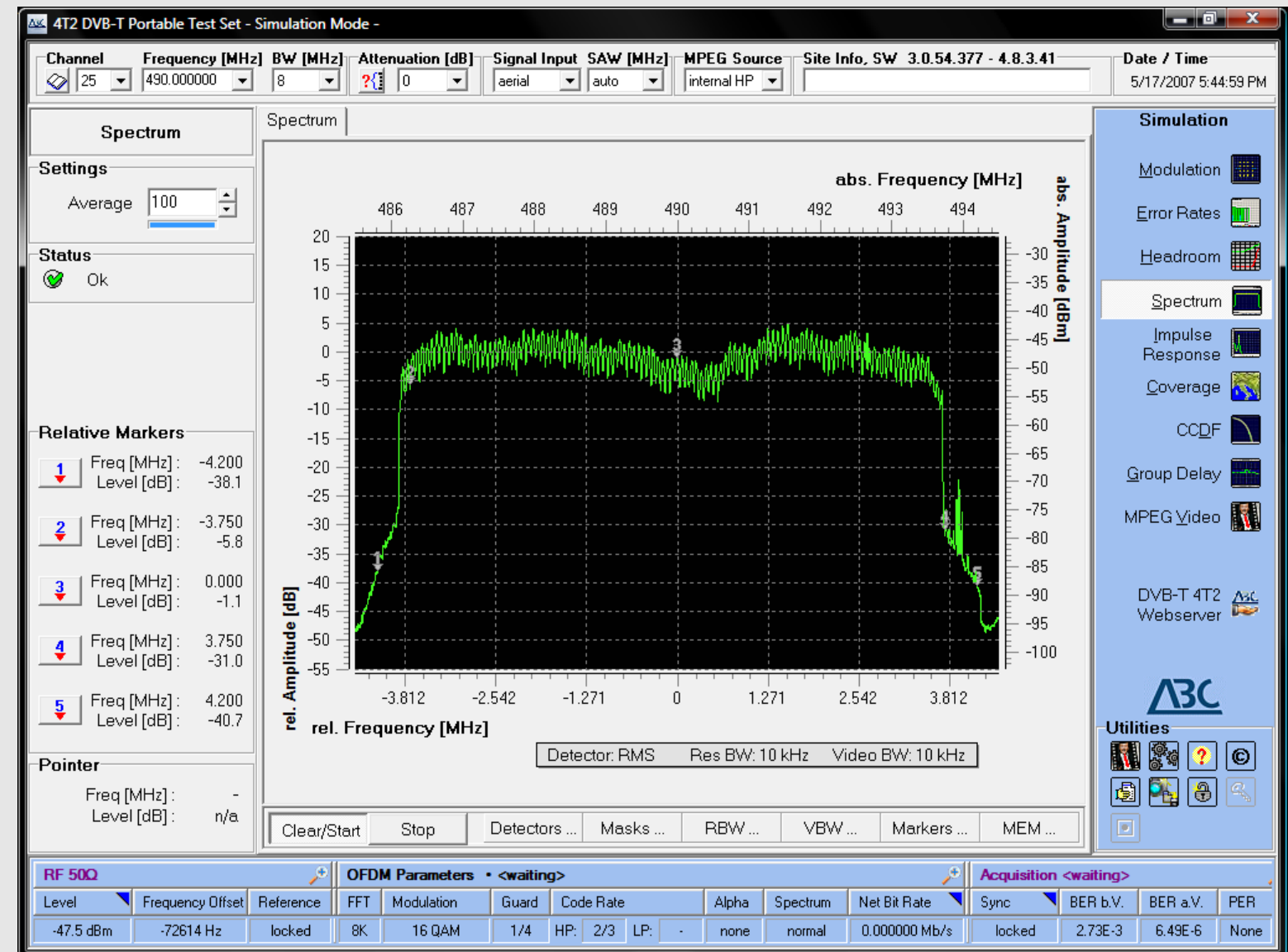
Features:

- Variable zoom levels
- 5 markers with absolute / delta readings
- Screen memory



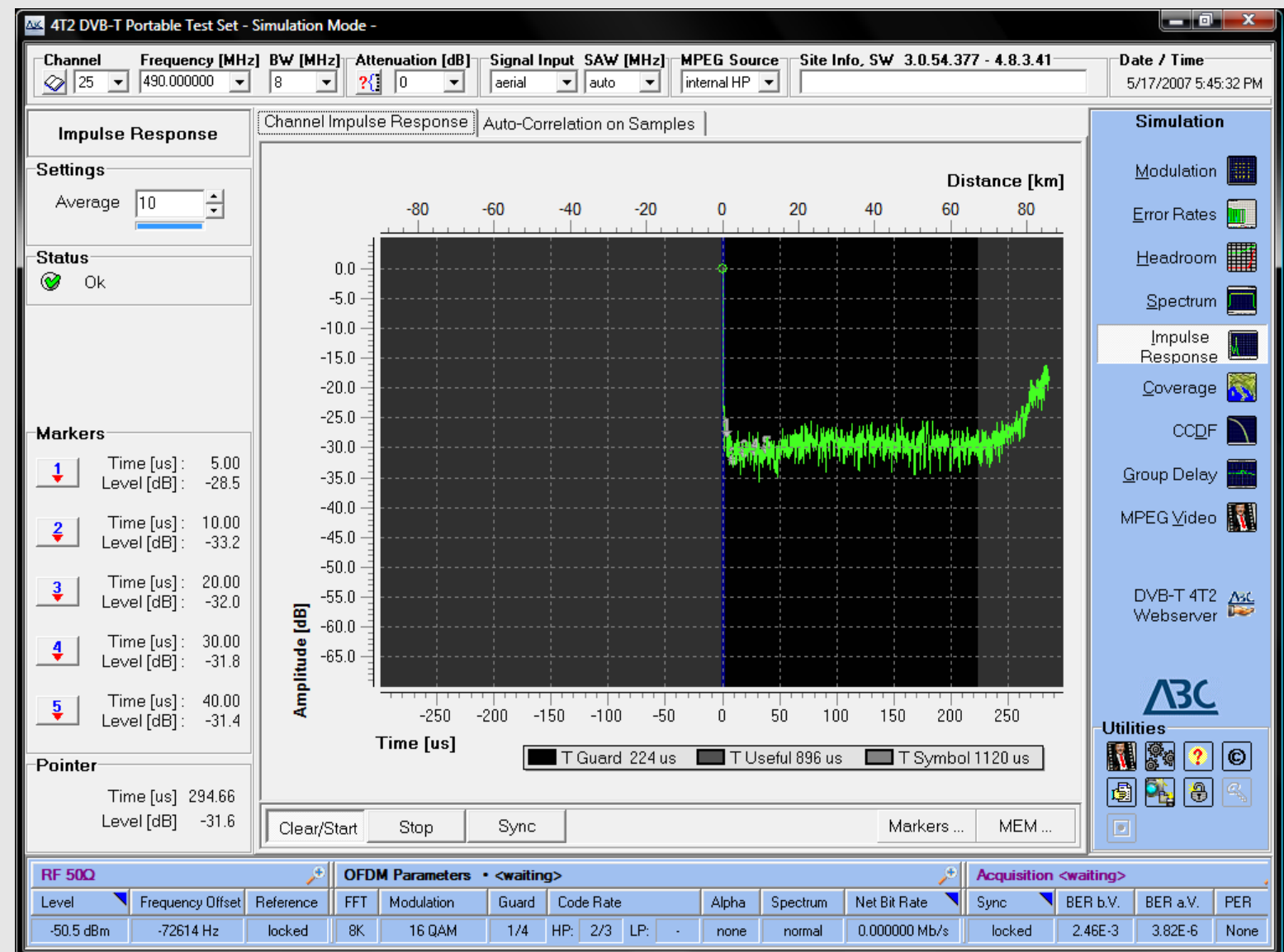
State of the art subsystem with outstanding measurement dynamics

- Frequency span 9 MHz, 85 dB dynamic range
- Resolution and video bandwidth selectable
- Variable zoom levels
- 5 markers with absolute or delta readings
- Mask display with mask editor
- RMS, average, and MaxPeak detector settings
- Multiple screen memory



Check the time delay between several DVB-T signals to validate single frequency networks

- Shows an entire symbol in 8k mode
- Pre- and post echo display
- Variable zoom levels
- 5 markers with absolute or delta readings
- Maximum hold and freeze
- Screen memory
- SFN-analysis, including absolute power, and frequency-offsets



Collect coverage data and visualise on a map of the area

- Up to three simultaneous channels supported
- Fully integrated GPS reception (Garmin, or Navilock devices)
- Multiple Map format including OpenStreetMap
- Level conversion with antenna factor entry
- Comprehensive printing, and file-export features

The screenshot displays the 4T2 DVB-T Portable Test Set - Simulation Mode interface. The main window shows a map with a red and yellow coverage path. A 'Coverage' table is visible, and a 'GPS Data' section shows coordinates. An 'Input level conversion' dialog box is open, showing an expression $\text{InputLevel} + (20 \cdot \log_{10}(1E6 \cdot \sqrt{1E-3 \cdot 50})) + \text{Antennaf}$ and a result of 71.2 dBµV/m. The bottom status bar shows 'RF 50Q, AF 13.0dB' and 'OFDM Parameters'.

Channel	Frequency [MHz]	BW [MHz]
25	490.000000	8

Gain Factor [dB]	Ant. Factor [dB/m]	Input Level [dBm]	Frequency [MHz]	Result (definition)
10.0	13.0	-48.8	490.0	107.0

Level	Frequency Offset	Reference	FFT	Modulation	Guard	Code Rate	Alpha	Spectrum	Net Bit Rate	Sync	BER b.V.	BER a.V.	PER	
76.4 dBµV/m	-72612 Hz	locked	8K	16 QAM	1/4	HP: 2/3 LP:	-	none	normal	0.000000 Mb/s	locked	1.86E-3	9.16E-6	Error

Please find further information under

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