

## Changelog APPH GUI

Date	Revision	Changed
18.07.2019	1.2.94	Redesign of communication code Fixed a bug that sometimes didn't save the PDF report correctly Added possibility to stream frequency data into file during time stability measurement Added warning before overwriting files Burst mode measurements can now be saved through the menu
15.04.2019	1.2.91	VCO characterization improvement of measurement speed Rework of spectrum analysis (scanning, RBW, VBW, markers) Bugfixes for communication stability
21.12.2018	1.2.90	Extension of data export; csv, xls and mat for all measurement modes
21.11.2018	1.2.89	License file handling has been introduced some improvements for the newer modes (more to come) Support of latest hardware has been extended
06.07.2018	1.2.85	UI has been rearranged to make more space for plot results Cleaner UI, easier handling Redesign of additive phase noise measurement Fixed an issue regarding the transient analysis of the idle mode in pulsed signals Detection of pulsed signals
20.04.2018	1.2.83	Added support for the new hardware versions Added AM pulsed measurement Added Burst mode measurement Improved signal detection Improved measurement algorithm
28.09.2017	1.2.74	Performance improvements with multiple traces Limits number of visible datapoints (prevent slow down) Improved measurement speed Improved Residual Phase Noise user interface
11.09.2017	1.2.72	Improvements for new hardware First implementation for time stability mode Added meta data to excel export Various bugfixes Removed older unused measurement modes Redesign of statistics tab Performance improvements Fixed locking issues with new hardware (>=0270)

19.06.2017	1.2.67	<p>Full support of new HW platform (serials ending in &gt;0270)</p> <p>Full support of the new 40 GHz SSA</p> <p>Improved measurement with external reference</p> <p>Adjustments of the user interface</p> <p>Improved communication speeds and stability</p> <p>Improved spur detection and visualization</p> <p>Added full resolution spurs</p>
16.03.2017	1.2.63	<p>Implementations for new design and GUI revision</p> <p>Added Amplitude Noise capabilities for new design</p> <p>Added High Drift Phase Noise capabilities for new design</p> <p>Revised transient analysis for new design</p> <p>Revised spectrum monitoring for new design</p> <p>Added "automatic Kphi" mode for Additive Phase Noise</p>
19.12.2016	1.2.60	<p>Added scaling options when saving plot as PNG</p> <p>Reintroduced Spectrum Monitoring tab</p> <p>Introduced Amplitude Noise mode for new design (2017)</p>
22.09.2016	1.2.59	<p>Introduced some plot features (larger font, save with specific aspect ratio, etc)</p> <p>Improved spur detection algorithm</p> <p>Improved locking algorithm</p>
18.08.2016	1.2.57	<p>Fixed residual PM data bug</p> <p>Added video filter to Transient Analysis</p> <p>Added narrowband span support to Transient Analysis</p> <p>Various changes for Transient Analysis</p> <p>Improved Pulsed RF Measurement</p>
15.06.2016	1.2.52	<p>Various changes in Transient Analysis</p> <p>Cleaned up relative noise floor display</p>
20.05.2016	1.2.50	<p>Improved support for older units</p>
20.05.2016	1.2.49	<p>Network Config DHCP Auto mode</p> <p>Updated schematics</p> <p>Refurbished relative measurement noise floor</p>
30.03.2016	1.2.47	<p>Reintroduce transient narrowband</p> <p>Introduced pulsed additive phase noise</p> <p>Improved LN locking</p>
24.02.2016	1.2.45	<p>Measurement of pulsed RF signals</p>
28.01.2016	1.2.43	<p>Fixes in connection protocol</p>
24.12.2015	1.2.41	<p>Stoppable measurements (FW 0.4.66)</p> <p>Fixes in Transient Analysis</p> <p>Changes in VCO Characterization</p>
04.12.2015	1.2.40	<p>Service mode for AP technicians</p>

02.12.2015	1.2.39	Voltage settings fixed UI fixes Rewritten VCO Characterization
19.11.2015	1.2.38	Support for new unit hardware Ext trigger for transient analysis Ext reference 10M for counter Introduced spur setting "Raw" Increased jitter integration range UI fixes Spectrum monitoring tab
29.09.2015	1.2.37	Ext Kphi read optimized Ext sensitivity manually settable
22.09.2015	1.2.36	Signal search for Additive Improved locking algorithm
16.09.2015	1.2.35	Voltage settings fixed (rounding) Improved Kphi detection (older units) UI changes for VCO Characterization
02.09.2015	1.2.34	UI changes (plot rendering) Baseband measurement fixed
22.07.2015	1.2.30 1.2.31 1.2.32	Periodic save of GUI configuration Info in plot window (PLL BW, Kvco, sens, etc) Introduced raw spurs Improved frequency search
12.06.2015	1.2.29	Markers draggable from outside
03.06.2015	1.2.29b1	UI fixes
01.06.2015	1.2.28	DUT supply in Additive / Transient UI fixes Improved locking <30 MHz