**26 September 2018**

**Version 2.2.262.3848**

The list of supported devices is expanded to 35: S5180 was added.

Added a features that allows the user to customize the program interface: work space scale, font size, color scheme select, the ability to create own color style.

Added a feature that allows the user to see a list of previously created reports of this device.

Added a feature that allows the user to tune a spectrum analyzer GPIB ID.

Drop-down lists indicating the number of rows in the table were replaced by the add / delete symbol of the table rows.

Frequency limit of noise floor was changed from 4.8 GHz to 6.5 GHz for S5065 and S5085.

Uncorrected parameters values for S5065, S5085 in frequency range to 300 kHz were changed:

   - directivity from 10 dB to 8 dB;

   - source match from 12 dB to 10 dB;

   - load match from 12 dB to 10 dB.

Table

1 List of supported devices

|  |  |
| --- | --- |
| Vector reflectometers | |
| R-series | |
| R54 | 50 Ω, basic configuration,  85 MHz to 5.4 GHz |
| R60 | 50 Ω, basic configuration,  1 MHz to 6 GHz |
| R140 | 50 Ω, basic configuration,  85 MHz to 14 GHz |
| R160 | 50 Ω, basic configuration,  85 MHz to 16 GHz |
| R180 | 50 Ω, basic configuration,  1 MHz to 18 GHz |
| RP5 | 50 Ω, customized solutions,  1 MHz to 0.5 GHz |
| RP60 | 50 Ω, customized solutions,  1 MHz to 6 GHz |
| RP180 | 50 Ω, customized solutions,  1 MHz to 18 GHz, 46.875 MHz to 18 GHz |
| Vector network analyzers | |
| Cobalt series | |
| C1209 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 9.0 GHz |

|  |  |
| --- | --- |
| Vector network analyzers | |
| C1220 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 20.0 GHz |
| C1409 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 9.0 GHz |
| C1420 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 20.0 GHz |
| C2209 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 9.0 GHz |
| C2409 | 4-ports, 50 Ω, direct receiver access,  from 100 kHz to 9.0 GHz |
| C2220 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 20.0 GHz |
| C2420 | 4-ports, 50 Ω, direct receiver access,  from 100 kHz to 20.0 GHz |
| C4209 | 2-ports, 50 Ω, frequency extension solution,  from 100 kHz to 9.0 GHz |
| C4409 | 4-ports, 50 Ω, frequency extension solution,  from 100 kHz to 9.0 GHz |
| C4220 | 2-ports, 50 Ω, frequency extension solution,  from 100 kHz to 20.0 GHz |
| C4420 | 4-ports, 50 Ω, frequency extension solution,  from 100 kHz to 20.0 GHz |
| Full size series | |
| PLANAR 304/1 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 3.2 GHz |
| PLANAR 804/1 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 8.0 GHz |
| PLANAR 808/1 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 8.0 GHz |
| PLANAR 814/1 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 8.0 GHz |
| Compact series | |
| S5048 | 2-ports, 50 Ω, basic configuration,  from 20 kHz to 4.8 GHz |
| S5065 | 2-ports, 50 Ω, basic configuration,  from 9 kHz to 6.5 GHz |

|  |  |
| --- | --- |
| Vector network analyzers | |
| S5085 | 2-ports, 50 Ω, basic configuration,  from 9 kHz to 8.5 GHz |
| *S5180\** | 2-ports, 50 Ω, basic configuration,  100 kHz to 18 GHz |
| S7530 | 2-ports, 75 Ω, basic configuration,  from 20 kHz to 3.0 GHz |
| PLANAR TR1300/1 | 2-ports, 50 Ω, one-directional,  from 300 kHz to 1.3 GHz |
| TR5048 | 2-ports, 50 Ω, one-directional,  from 20 kHz to 4.8 GHz |
| TR7530 | 2-ports, 75 Ω, one-directional,  from 20 kHz to 3.0 GHz |

**14 February 2017**

**Version 2.1.258.3611**

Transmission accuracy test: when changing the attenuator values, the softkey names are now auto changed.

**27 December 2017**

**Version 2.1.258.3589**

This version supports three verification methods for 1-port and 2-port one-directional VNAs: common verification, calibration comparison and extended calibration comparison, as well as two methods for multiport two-directional VNAs: common verification and calibration comparison.

Reference equipment was added.

The “reflectometer” was replaced by an “analyzer”.

For S7530 images the “impedance matching pad” was changed to “adapter”.

Transmission accuracy test: for multiport type N VNAs the attenuator 40 dB was replaced by an attenuator 50 dB by default.

**1 August 2017**

**Version 2.1.204.3090**

The base power level was changed from 0 dBm to -5 dBm for R180.

Gaging connectors test: lower limit of type N 50 Ohm was changed from 5.28 mm to 5.26 mm for R180.

For 4-port VNAs the bug of decision-making for reflection coefficient test was fixed.

**14 July 2017**

**Version 2.1.195.3035**

Procedure and message for frequency range checking when characterization file is loaded was added.

For TR VNAs the verification device table was not saving. The bug was fixed.

For TR VNAs the reflection coefficient phase data were not measuring. The bug was fixed.

**27 June 2017**

**Version 2.1.190.3012**

The measurement format of receiver noise floor was changed to logarithmic for Full size series.

**15 June 2017**

**Version 2.1.187.2994**

Fixed the bug in Uncorrected parameters test.

**14 June 2017**

**Version 2.1.185.2988**

The list of supported devices is expanded from 10 to 34.

Changed the appearance of the Power Accuracy Test.

Table

1 List of supported devices

|  |  |
| --- | --- |
| Vector reflectometers | |
| R-series | |
| R54 | 50 Ω, basic configuration,  85 MHz to 5.4 GHz |
| R60 | 50 Ω, basic configuration,  1 MHz to 6 GHz |
| R140 | 50 Ω, basic configuration,  85 MHz to 14 GHz |
| R160 | 50 Ω, basic configuration,  85 MHz to 16 GHz |
| R180 | 50 Ω, basic configuration,  1 MHz to 18 GHz |
| RP5 | 50 Ω, customized solutions,  1 MHz to 0.5 GHz |
| RP60 | 50 Ω, customized solutions,  1 MHz to 6 GHz |
| RP180 | 50 Ω, customized solutions,  1 MHz to 18 GHz, 46.875 MHz to 18 GHz |
| Vector network analyzers | |
| Cobalt series | |
| C1205 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 4.8 GHz |
| C1207 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 7.0 GHz |
| C1209 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 9.0 GHz |
| C1214 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 14.0 GHz |
| C1220 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 20.0 GHz |
| C1409 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 9.0 GHz |

|  |  |
| --- | --- |
| Vector network analyzers | |
| C1420 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 20.0 GHz |
| C2209 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 9.0 GHz |
| C2409 | 4-ports, 50 Ω, direct receiver access,  from 100 kHz to 9.0 GHz |
| C2220 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 20.0 GHz |
| C2420 | 4-ports, 50 Ω, direct receiver access,  from 100 kHz to 20.0 GHz |
| C4209 | 2-ports, 50 Ω, frequency extension solution,  from 100 kHz to 9.0 GHz |
| C4409 | 4-ports, 50 Ω, frequency extension solution,  from 100 kHz to 9.0 GHz |
| C4220 | 2-ports, 50 Ω, frequency extension solution,  from 100 kHz to 20.0 GHz |
| C4420 | 4-ports, 50 Ω, frequency extension solution,  from 100 kHz to 20.0 GHz |
| Full size series | |
| PLANAR 304/1 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 3.2 GHz |
| PLANAR 804/1 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 8.0 GHz |
| PLANAR 808/1 | 4-ports, 50 Ω, basic configuration,  from 100 kHz to 8.0 GHz |
| PLANAR 814/1 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 8.0 GHz |
| Compact series | |
| S5048 | 2-ports, 50 Ω, basic configuration,  from 20 kHz to 4.8 GHz |
| S5065 | 2-ports, 50 Ω, basic configuration,  from 9 kHz to 6.5 GHz |
| S5085 | 2-ports, 50 Ω, basic configuration,  from 9 kHz to 8.5 GHz |
| S7530 | 2-ports, 75 Ω, basic configuration,  from 20 kHz to 3.0 GHz |
| PLANAR TR1300/1 | 2-ports, 50 Ω, one-directional,  from 300 kHz to 1.3 GHz |
| TR5048 | 2-ports, 50 Ω, one-directional,  from 20 kHz to 4.8 GHz |
| TR7530 | 2-ports, 75 Ω, one-directional,  from 20 kHz to 3.0 GHz |

**17 April 2017**

**Version 2.1.156.2654**

This version is designed for performance testing of VNAs and supports two verification methods: common verification and calibration comparison.

Beginning from this version, VNAPT has a compatibility property, it means that all the following releases will support reports created by earlier versions.

Table

2 List of supported devices

|  |  |
| --- | --- |
| Vector reflectometers | |
| R-series | |
| R54 | 50 Ω, basic configuration,  85 MHz to 5.4 GHz |
| R60 | 50 Ω, basic configuration,  1 MHz to 6 GHz |
| R140 | 50 Ω, basic configuration,  85 MHz to 14 GHz |
| R160 | 50 Ω, basic configuration,  85 MHz to 16 GHz |
| RP5 | 50 Ω, customized solutions,  1 MHz to 0.5 GHz |
| RP60 | 50 Ω, customized solutions,  1 MHz to 6 GHz |
| RP180 | 50 Ω, customized solutions,  1 MHz to 18 GHz, 46.875 MHz to 18 GHz |
|  |  |
| Vector network analyzers | |
| Cobalt series | |
| C1209 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 9.0 GHz |
| C1220 | 2-ports, 50 Ω, basic configuration,  from 100 kHz to 20.0 GHz |
| C2220 | 2-ports, 50 Ω, direct receiver access,  from 100 kHz to 20.0 GHz |