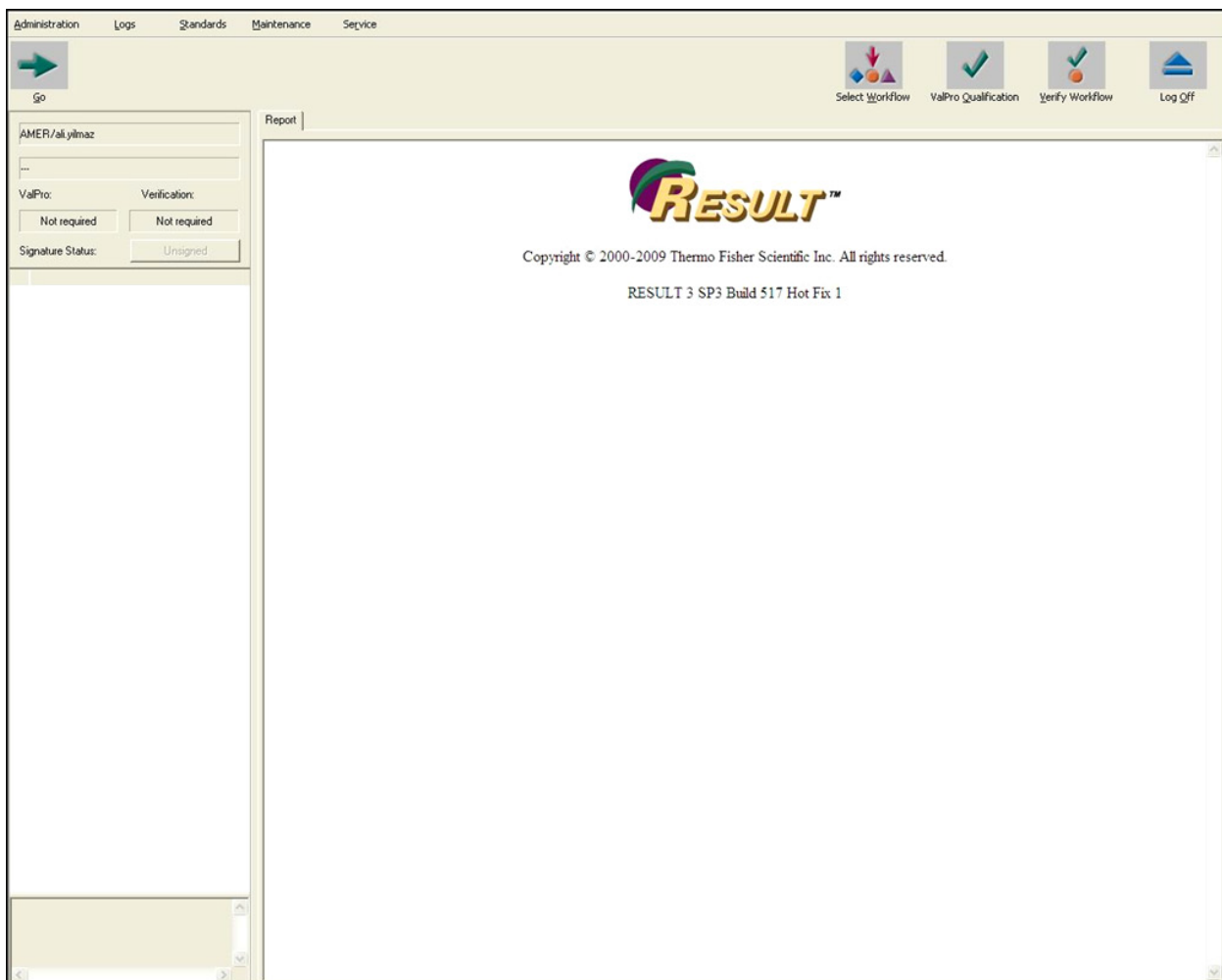


Antaris NIR Instrument ; Checking the System

The following procedure verifies instrument performance to make sure it meets system specification, including passing ValPro tests.

Make sure you have a user who logs on with Administrative privileges and has access to all menu drop down items i.e. Administration, Logs, Standards, Maintenance, Service

Example of *RESULT* Operation



Click on Administration > Manage Users

Make sure the individual logged on has access to all of the check boxes below for the menu drop down items:

TR Manage Users

Select user log on:

john Add Remove

User Information

ID: {0462DD80-54FF-4D0C-B7C8-81D7F6A12B25}

Name: john

Log on: john

PC or domain: john-PC

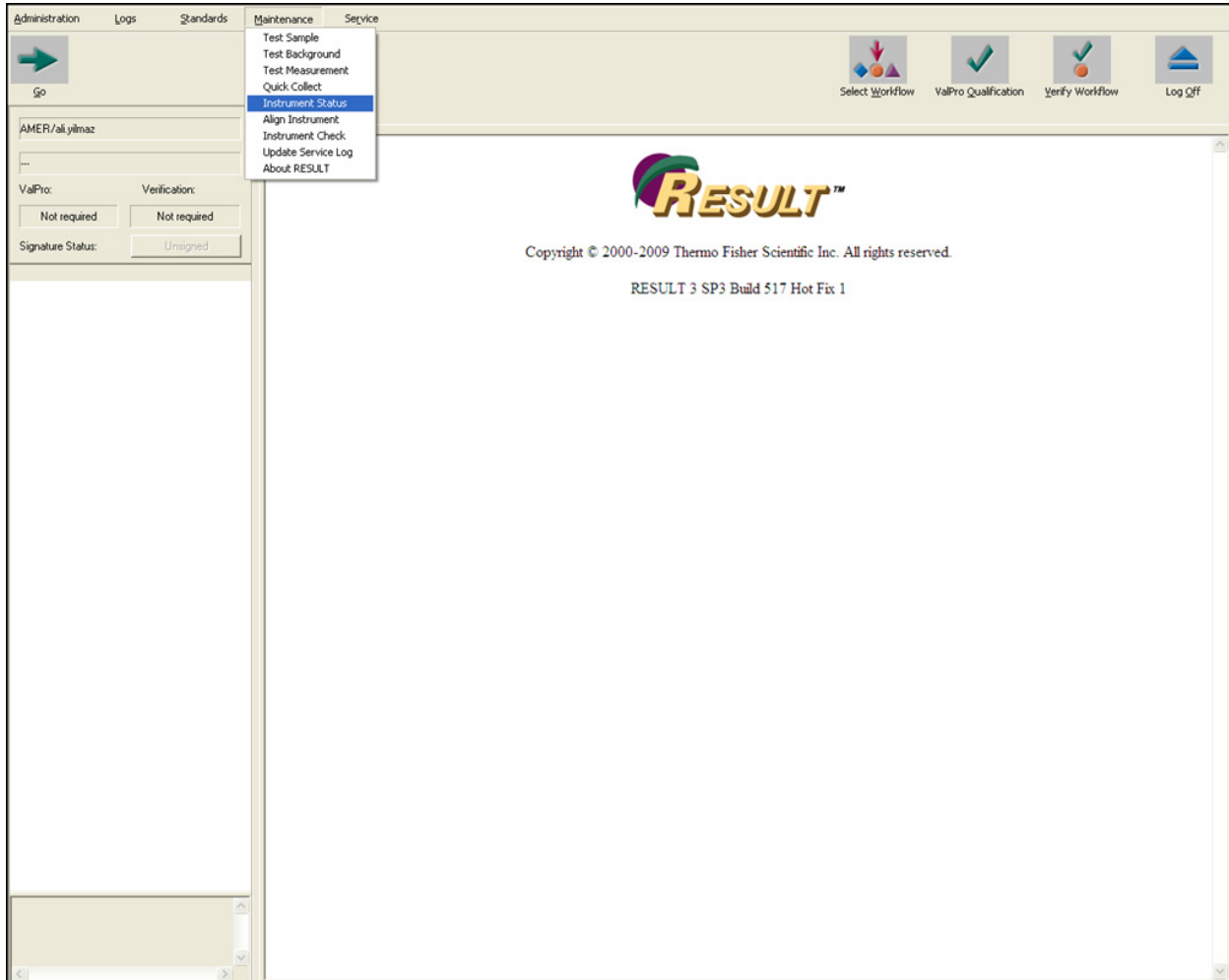
User Privileges

- Run production workflows
- Run workflows off-line
- Run ValPro qualification
- Access Standards menu
- Access Logs menu
- Access Maintenance menu
- Access Service menu
- Access Administration menu
- Access Trend tab setup option

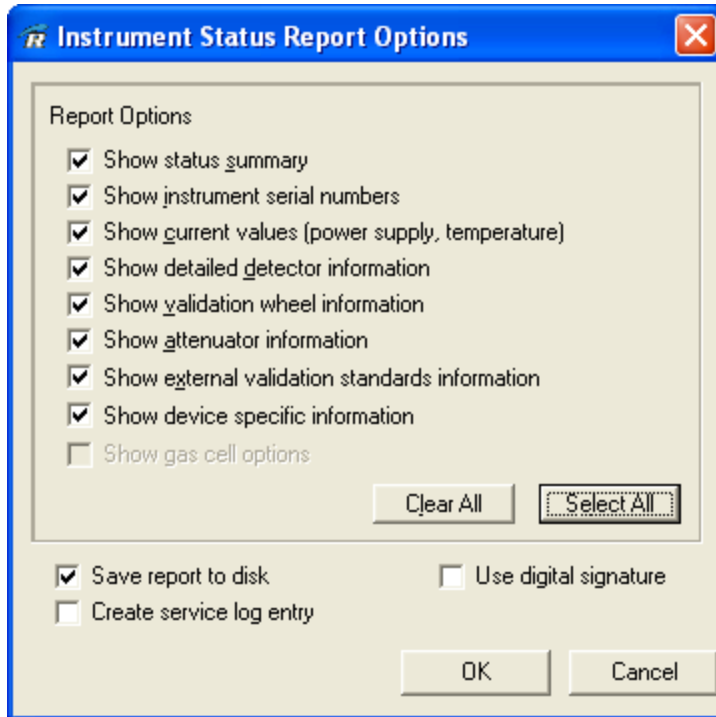
OK Cancel

Select the Maintenance menu and then select *Instrument Status* from the available options.

Instrument Status



Instrument Status Report Options



Select All then **OK**

Carefully review the report and make sure all Instrument Status Values Pass, verify serial numbers, check installed sampling modules, etc. By Default a copy of the completed Instrument Status report is saved to C:\RESULTData\Archive\Maintenance. An example of a file in the folder is *Instrument Status 4C8D2AEB-3A7A-424A-A180-13333076109A6.htm*. Provide Technical Support with the most recent dated file in the folder.

Instrument Status Report

Administration | Logs | Standards | Maintenance | Service

Go | Select Workflow | ValPro Qualification | Verify Workflow | Log Off

USMAD-SERTRAIN2/Administrator

Date of report: 3/2/2007 4:10:27 PM (GMT-06:00)
 Operator name: Administrator
 Antaris serial number: AHY0600215

Software Configuration
 RESULT version: 3.0 Build 197

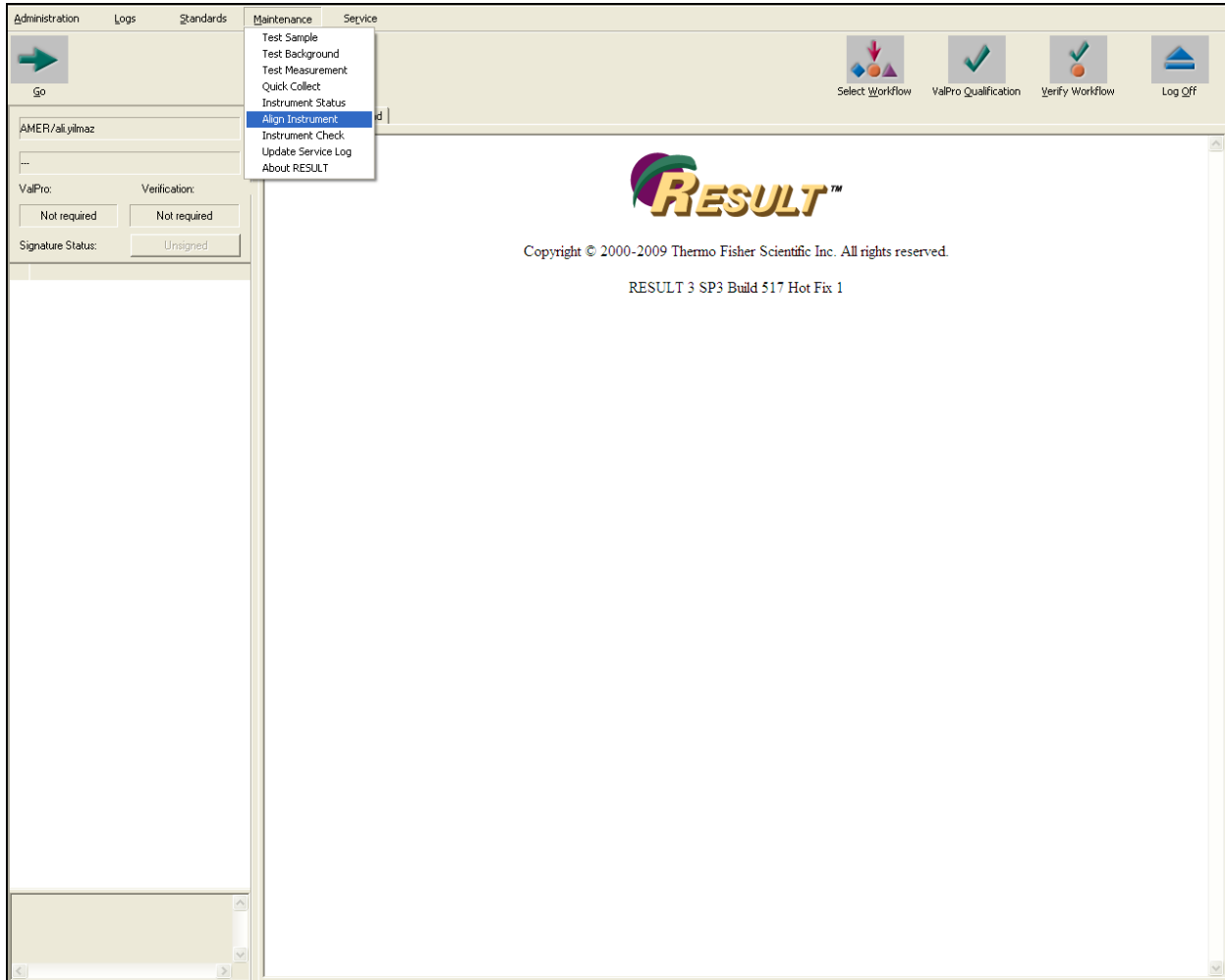
Instrument Status
 Autosampler Add-in: device not connected
 Laser is within manufacturers specifications.
 Laser alignment is within manufacturers specifications.
 Source is within manufacturers specifications.
 Power is within manufacturers specifications.
 Instrument is scanning.

Instrument Status Values

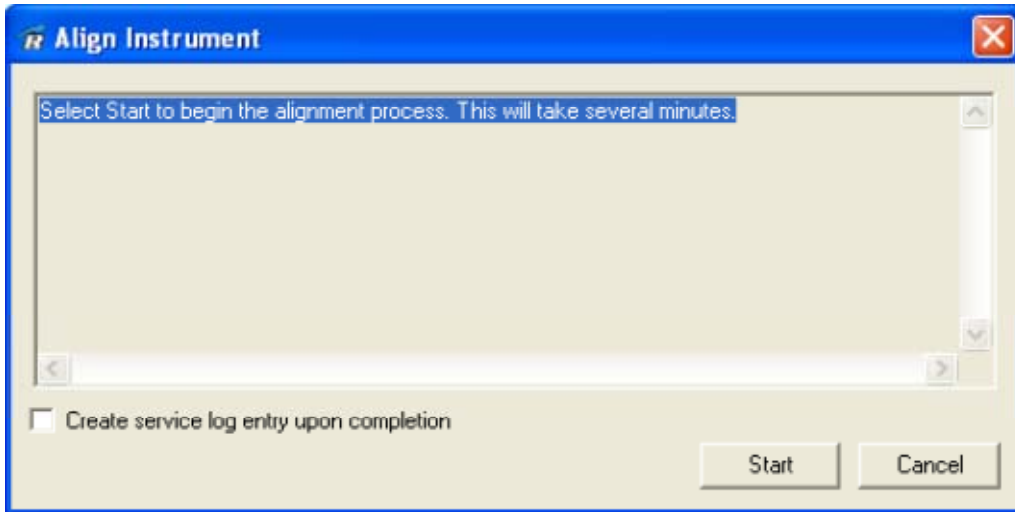
Title	Actual	Minimum	Maximum	Pass/Fail
Plus 5 (volts)	5.08	4.5	5.5	Pass
Plus 12 (volts)	11.95	10.8	13.2	Pass
Minus 12 (volts)	-12.02	-13.2	-10.8	Pass
Laser X (volts)	7.9	4	12	Pass
Laser Y (volts)	7.8	4	12	Pass
Laser R (volts)	8	4	12	Pass
Laser current (amps)	0.64	0.2	1.3	Pass

Select the Maintenance menu and then select Align Instrument.

Align Instrument

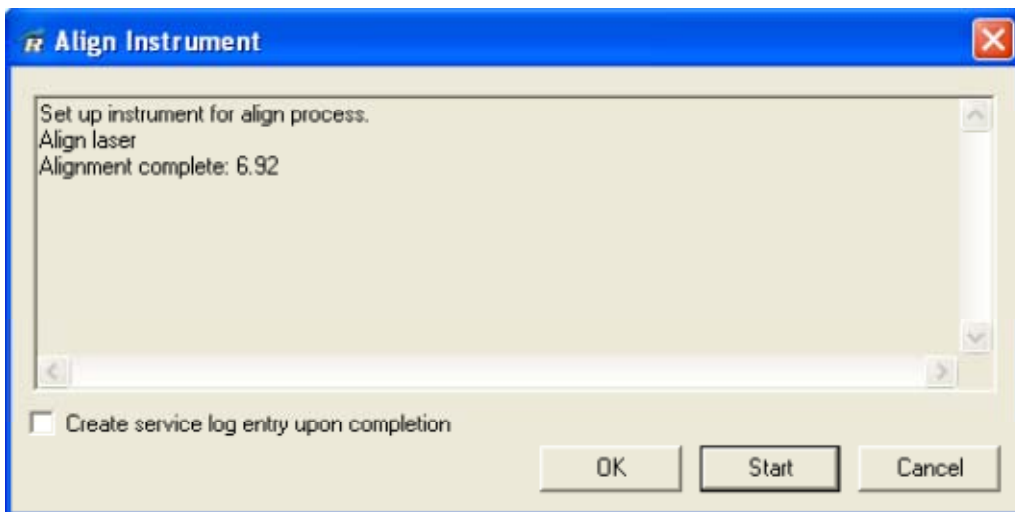


Click the Start button.



The Align Instrument will start and when it is complete record the alignment complete value for review at a later time. Alignment values between 6 and 7 are typical for a working Antaris system.

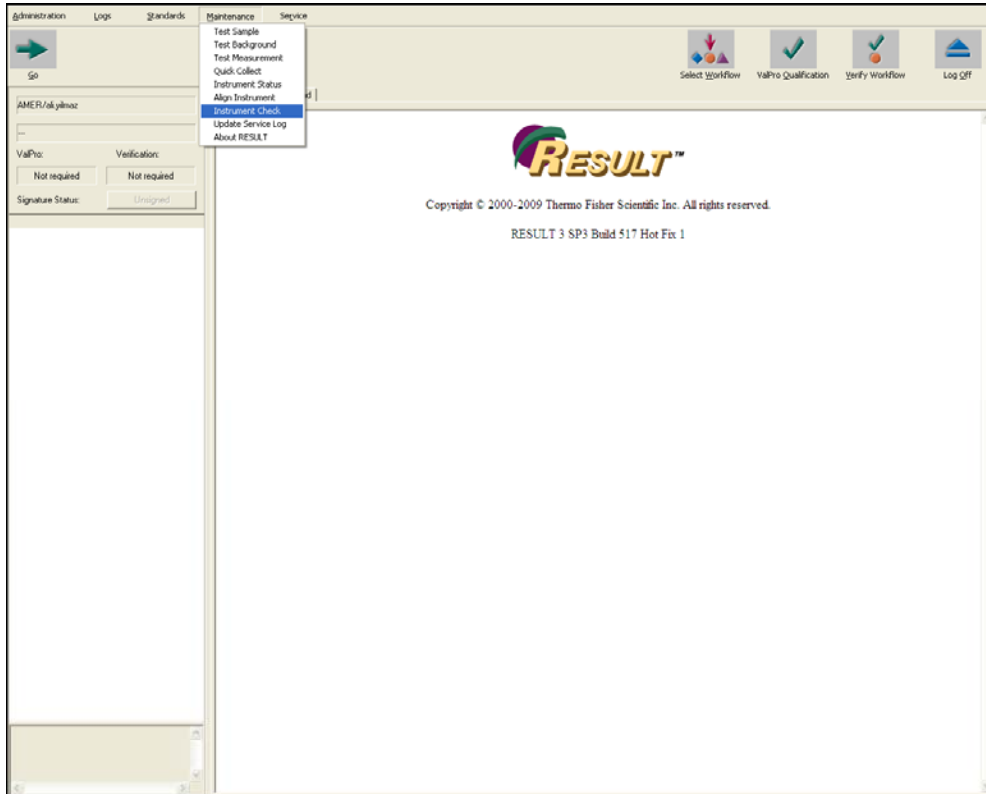
Alignment Complete



Select OK to close Alignment Instrument window.

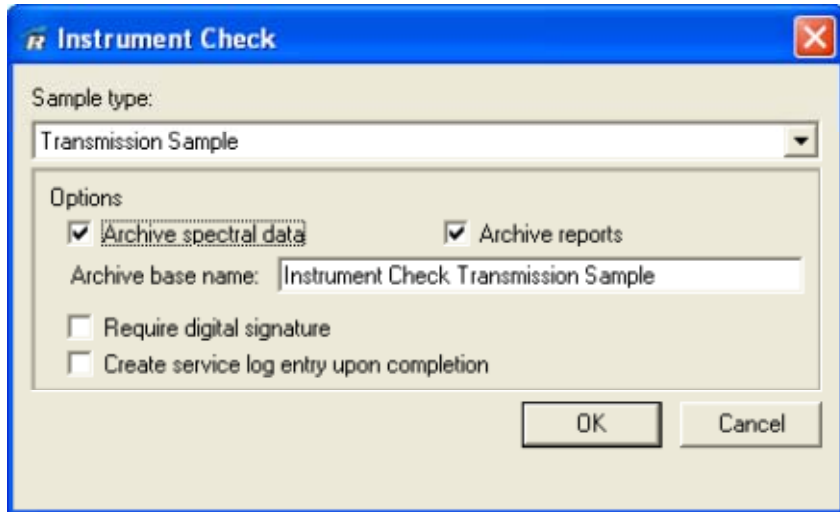
Select the *Maintenance* menu and then select *Instrument Check*.

Instrument Check



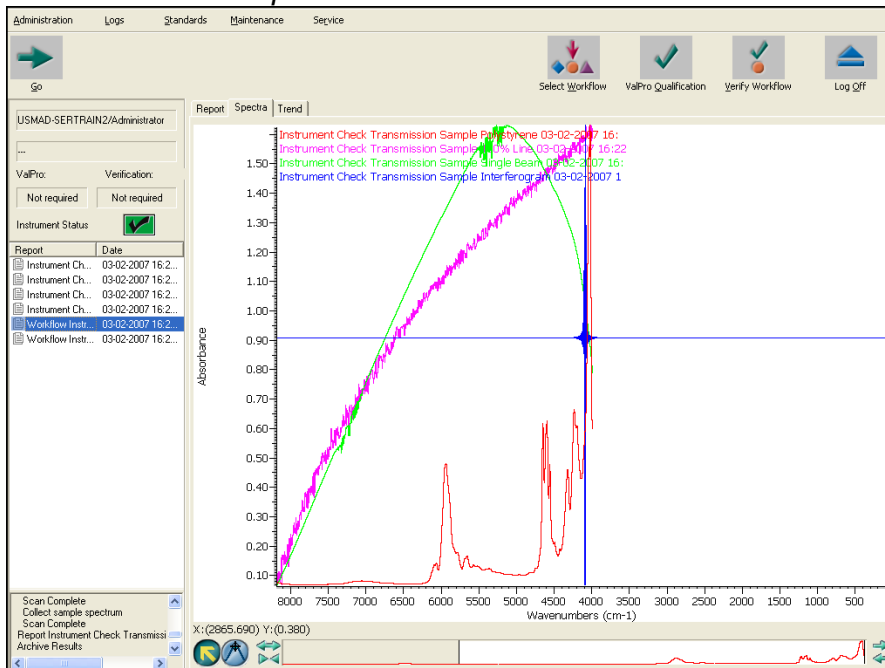
Select *Transmission Sample* under the *Sample type* pull-down menu, *Archive spectra data* and *Archive reports* boxes and then click *OK*.

Instrument Check



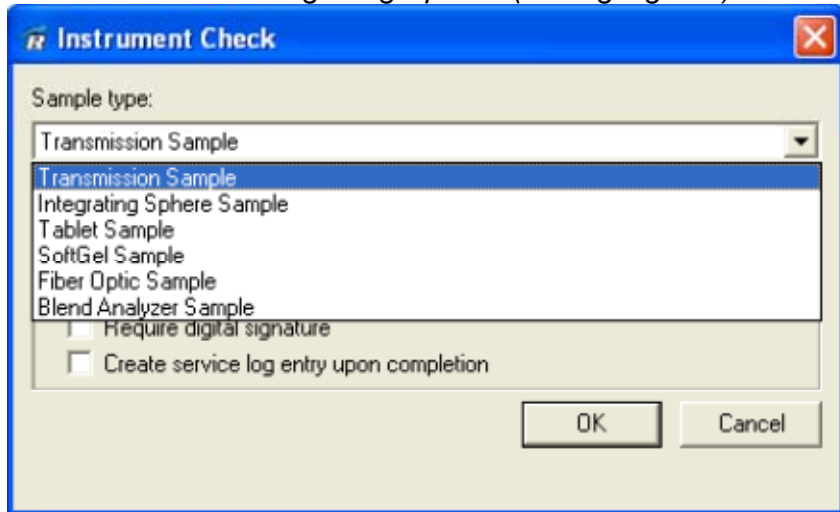
An Instrument Check includes four spectrums an Interferogram, Single Beam, 100% Line and a Polystyrene sample. Identify the resulting spectra. This is a visual test. There are no pass/fail limits.

Instrument Check Spectra



Repeat the Instrument Check process for all beam paths available.

Instrument Check Integrating Sphere (not highlighted)



The Spectra and Reports are saved in the C:\RESULT Data\Archive folder. This is the default path, but customers may change this path in Result Options. In the example below one would be interested in the Instrument Check.spa format files. Send the most recent dated Instrument Check spa files to Technical Support

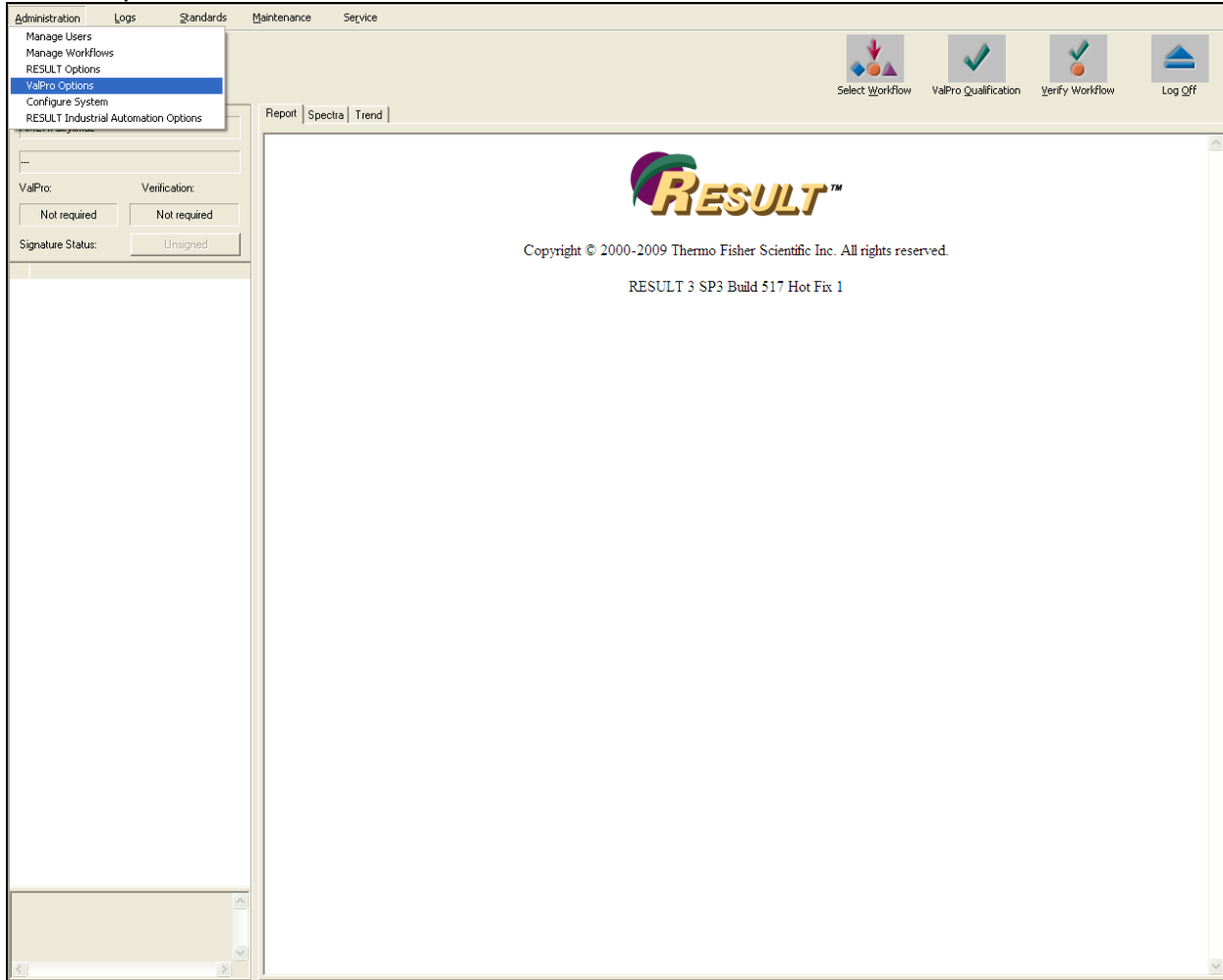
RESULT Data\Archive Folder

Name	Date modified	Type	Size
Instrument Check Fiber Optic Sample 100% Line 5727F7C5-DAFF-4FDB-9C3F-E008C1F09236.spa	3/29/2017 3:51 PM	OMNIC	79 KB
Instrument Check Fiber Optic Sample Interferogram 1AE35005-1251-4928-B5B8-11B97FEA345D.spa	3/29/2017 3:51 PM	OMNIC	41 KB
Instrument Check Fiber Optic Sample 8-A719-E27E52DFA861.htm	3/29/2017 3:51 PM	Chrome HTML Do...	1 KB
Instrument Check Fiber Optic Sample B07A-C805C9659BDF.htm	3/29/2017 3:51 PM	Chrome HTML Do...	1 KB
Instrument Check Fiber Optic Sample Polystyrene C73B1271-9253-416F-9DF4-2BAFE900E92C.spa	3/29/2017 3:51 PM	OMNIC	79 KB
Instrument Check Fiber Optic Sample Polystyrene Plot 5359AAEF-8280-41AF-AFC7-CDEE507F47E9.png	3/29/2017 3:51 PM	PNG image	3 KB
Instrument Check Fiber Optic Sample Single Beam 96F15690-C860-4C6C-A396-113069724933.spa	3/29/2017 3:51 PM	OMNIC	47 KB
Instrument Check Fiber Optic Sample Single Beam 536F0E11-2237-4703-B5EE-98D426DF3AC9.htm	3/29/2017 3:51 PM	Chrome HTML Do...	1 KB
Instrument Check Fiber Optic Sample 100% Line Plot 44307FBD-9EE1-45C8-BD18-3C68DC5C1769.png	3/29/2017 3:51 PM	PNG image	3 KB
Instrument Check Fiber Optic Sample Single Beam Plot 6B09972C-0228-4BCF-8D3D-9F083E8FA65B.png	3/29/2017 3:50 PM	PNG image	4 KB
Instrument Check Fiber Optic Sample Interferogram Plot 89AF9A14-B726-4521-9649-04AB59D44B33.png	3/29/2017 3:50 PM	PNG image	2 KB
Instrument Check Integrating Sphere Sample 100% Line 6B54E918-405D-432E-A8DF-D2FD3A18D00E.spa	3/29/2017 3:48 PM	OMNIC	79 KB
Instrument Check Integrating Sphere Sample 100% Line 877ADBBC-C5ED-44CE-8A27-035AD69E9029.htm	3/29/2017 3:48 PM	Chrome HTML Do...	1 KB
Instrument Check Integrating Sphere Sample Interferogram 73329EEA-7E9A-442D-A759-0BB7EE45A54C.htm	3/29/2017 3:48 PM	Chrome HTML Do...	1 KB
Instrument Check Integrating Sphere Sample Interferogram 5399550F-F004-4DCA-B139-C4EB33A46646.spa	3/29/2017 3:48 PM	OMNIC	41 KB

If you have ValPro

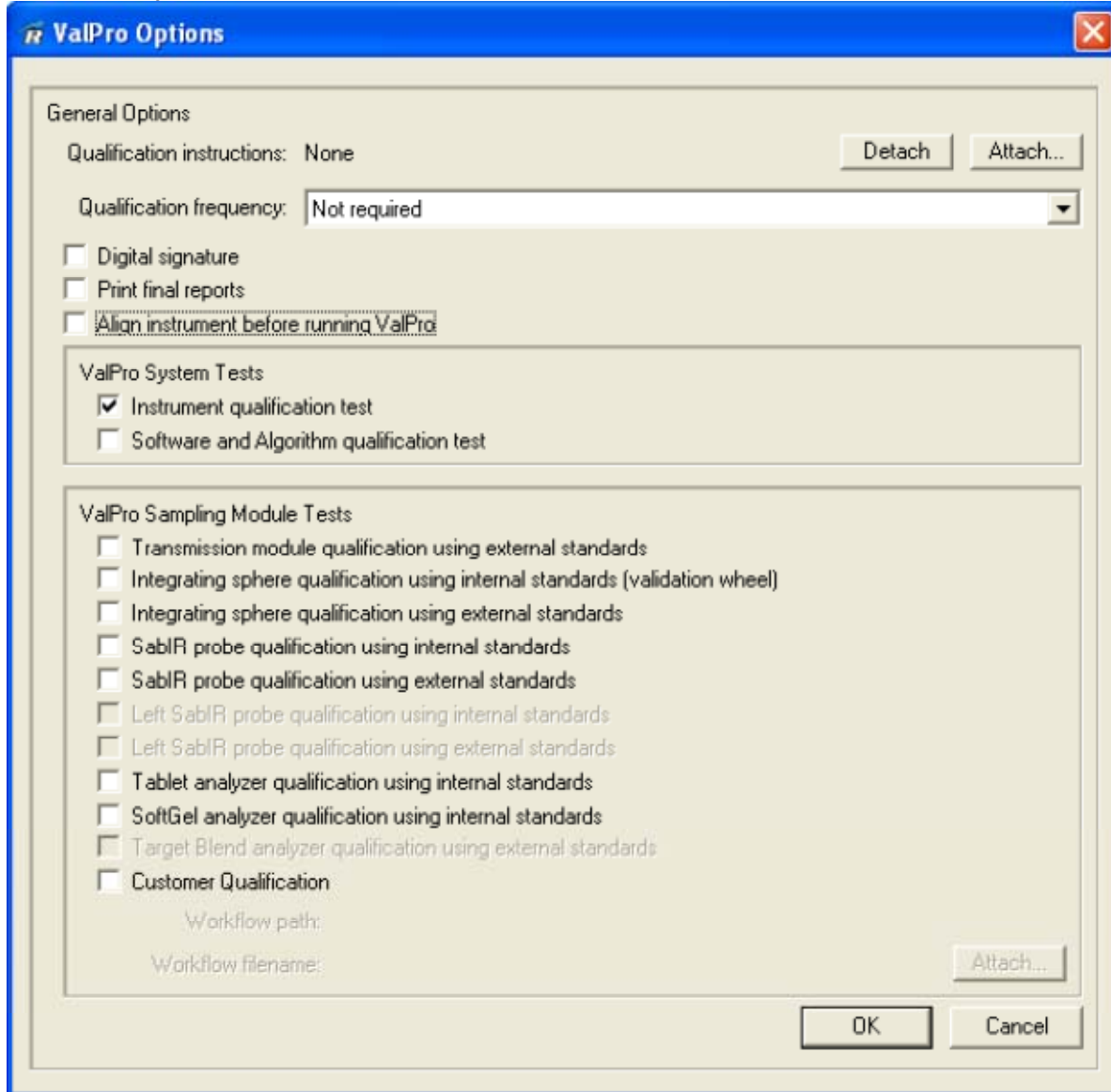
Select the *Administration* menu and then *ValPro Options*.

ValPro Options



Select *Instrument qualification test* and then click OK

Instrument qualification test



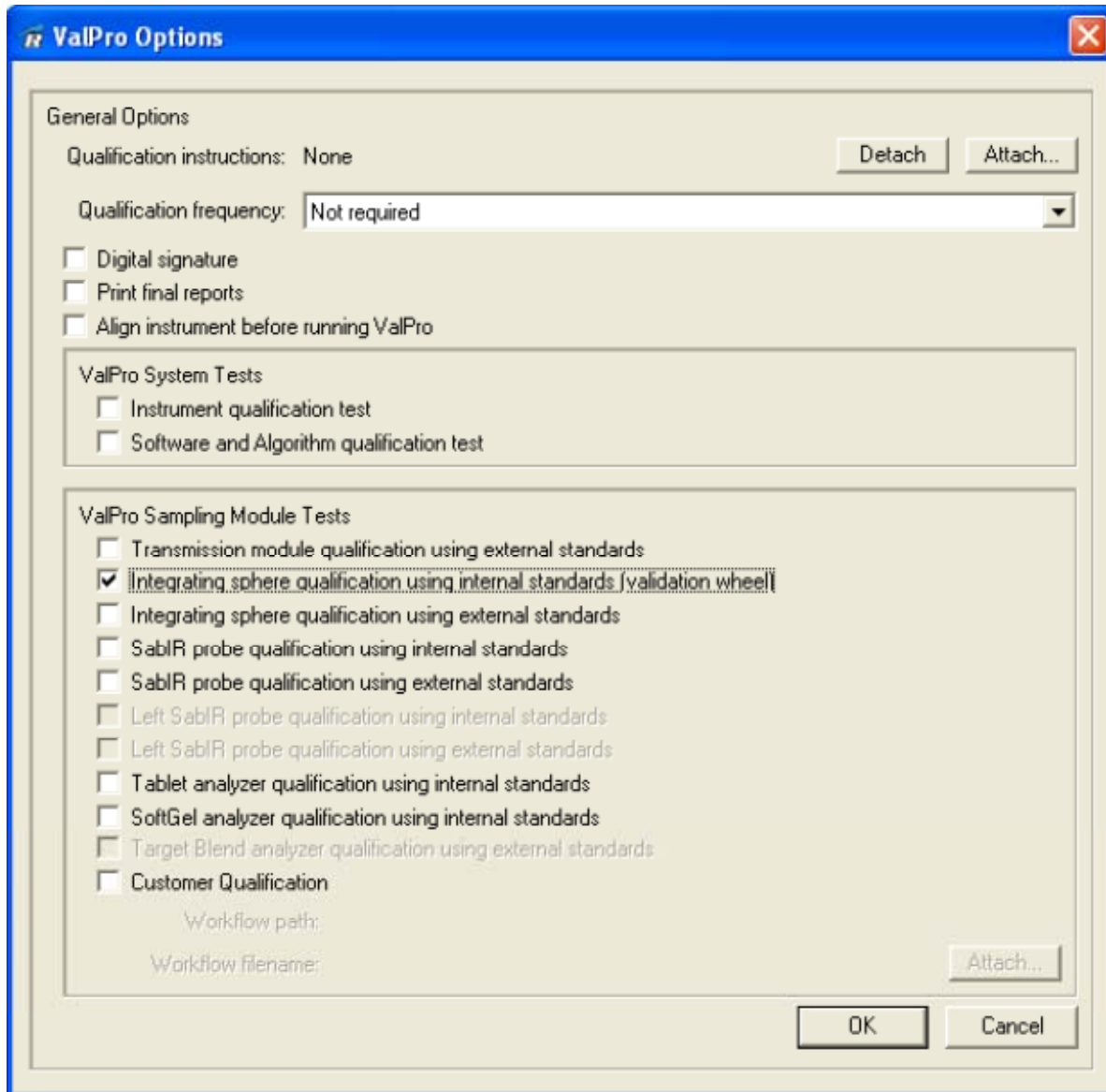
Select *ValPro Qualification* to qualify the instrument, Tests Include Signal to Noise (S/N), energy ratio, short term stability etc. If the test is successful, the report will show two green check marks (Pass) in the last section.

ValPro Qualification

The screenshot shows the ValPro Qualification software interface. At the top, there is a navigation bar with tabs for 'Administration', 'Logs', 'Standards', 'Maintenance', and 'Service'. Below this is a toolbar with four icons: 'Select Workflow', 'ValPro Qualification' (highlighted with a red box), 'Verify Workflow', and 'Log Off'. The main content area displays the 'RESULT' logo, copyright information for Thermo Fisher Scientific Inc. (2000-2009), and the version 'RESULT 3 SP3 Build 517 Hot Fix 1'. On the left side, there are input fields for 'AMER/alkylmaz', 'ValPro', and 'Signature Status'.

Repeat the ValPro test for the Integrating Sphere (if have this accessory).

Integrating Sphere qualification using internal standards



Repeat ValPro test for the SabIR probe (if have this accessory)

SabIR Probe qualification using internal standards

