



Performance Qualification

• Step Accuracy: STD Gradient_3

• Instruments and Fluidics

<i>Instrument Name</i>	<i>Model</i>	<i>Supplier's Name</i>	<i>Serial Number</i>
Pump	G1311	Thermo Scientific	DE72002246
UV Detector	G1315	Thermo Scientific	DE82203840
Chromeleon Datasystem	V. 6.80 SR16 Build 5387	Thermo Scientific	1904

<i>Accessories</i>	<i>Description</i>
Back Pressure Device	Capillary (L:15 m; ID:0,18 mm)
Solvent A	Water (HPLC-Grade)
Solvent B for Gradient	Water + 0.1% Acetone

• Additional Information

Customer: Customer's Name
 Operator: Operator's Name
 Operator's Jobtitle
 Execution Date: 2025-sept.-08
 Next Qualification: 2026-mars

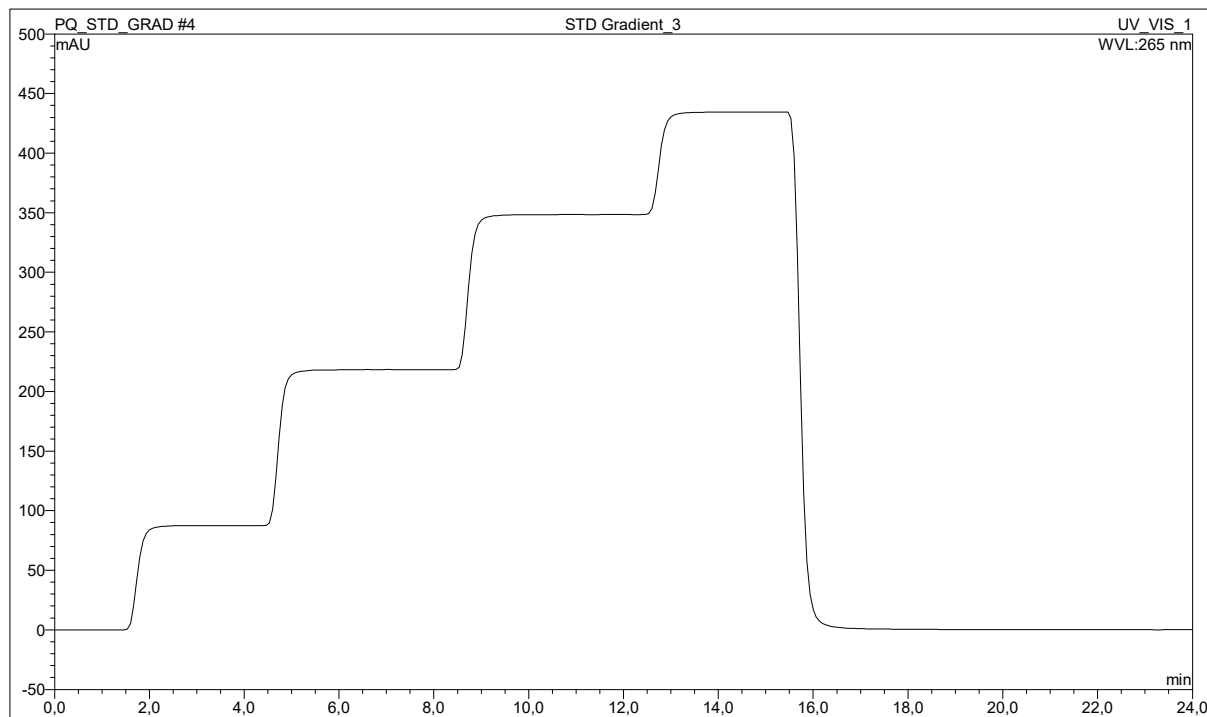
• Limits and Test Results

	<i>Limit</i>	<i>Observed max. Deviation</i>	<i>Result of all Steps</i>
Step Accuracy	<= 1,500 %	0,230 %	Test passed
Step Ripple	<= 0,500 %	0,021 %	Test passed

• Signatures

	<i>Signature</i>	<i>Date</i>
Submitter / Operator:		
Reviewer:		
Approver (e-sig. only):		

• **Chromatogram of STD Gradient_3**



Flow [ml/min]: 2,000

• Data of STD Gradient_3

<i>Observed Value [mAU]</i>	<i>Expected Value [%]</i>	<i>Calculated Value [%]</i>	<i>Abs. Critical Deviation [%]</i>	<i>Calculated Deviation [%]</i>	<i>Result</i>
0,00	0,00	0,000	1,500	0,000	ok
87,45	20,00	20,128	1,500	0,128	ok
218,23	50,00	50,230	1,500	0,230	ok
348,41	80,00	80,194	1,500	0,194	ok
434,46	100,00	100,000	1,500	0,000	ok

• Ripple of STD Gradient_3

<i>Step [%]</i>	<i>Ripple [mAU]</i>	<i>Calculated Ripple [%]</i>	<i>Critical Ripple [%]</i>	<i>Result</i>
20,00	0,045	0,010	0,500	ok
50,00	0,091	0,021	0,500	ok
80,00	0,027	0,006	0,500	ok