

FLOW RATE LINEARITY REPORT

ACQUISITION INFORMATION

System Name: Column Manager
Project Name: SQT_ACQUITY_TUV_12
Sample Set Method: 070 Flow Rate Linearity
Processing Method Flow Rate Linearity PM
Report Method Name: Flow Rate Linearity Report
User Name: Tester Account (Tester)
Sample Set Name: Flow Rate Linearity

Acquired By: Tester
Column serial Number: 03833034215140
Sample Kit 1 Expiration date: 10/6/2022 12:00:00 AM
Sample Kit 1 Lot Number: W06102013
Build Version: Empower 2 Software Build 2154 SPs
Sample Set Id: 14646 Result Set Id 14656
Sample Set Start Date: 4/12/2021 5:45:12 PM

The Flow Rate Linearity qualification measures the Retention Time of Caffeine at varying Flow Rates and plots the reciprocal of the Retention Time vs. Flow Rate (mL/min).

The qualification passes if the plot of $1/RT$ vs. Flow Rate has an R^2 value of $> \text{ or } = 0.990$.

Flow Rate Linearity Results Table

	Linearity R^2 Specification	Linearity R^2	Linearity R^2 Pass Fail
1	$R^2 > \text{ or } = 0.990$	0.999	PASS

Certification

Comments

No comments.

NA

13 Apr 2021

The undersigned performer attests that the values recorded above are accurate and complete.

Performer

Signature

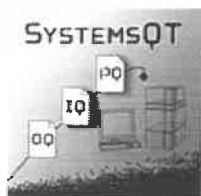
Date 13 Apr 2021

The undersigned reviewer accepts that the values recorded above are accurate and complete.

Reviewer

Signature

Date



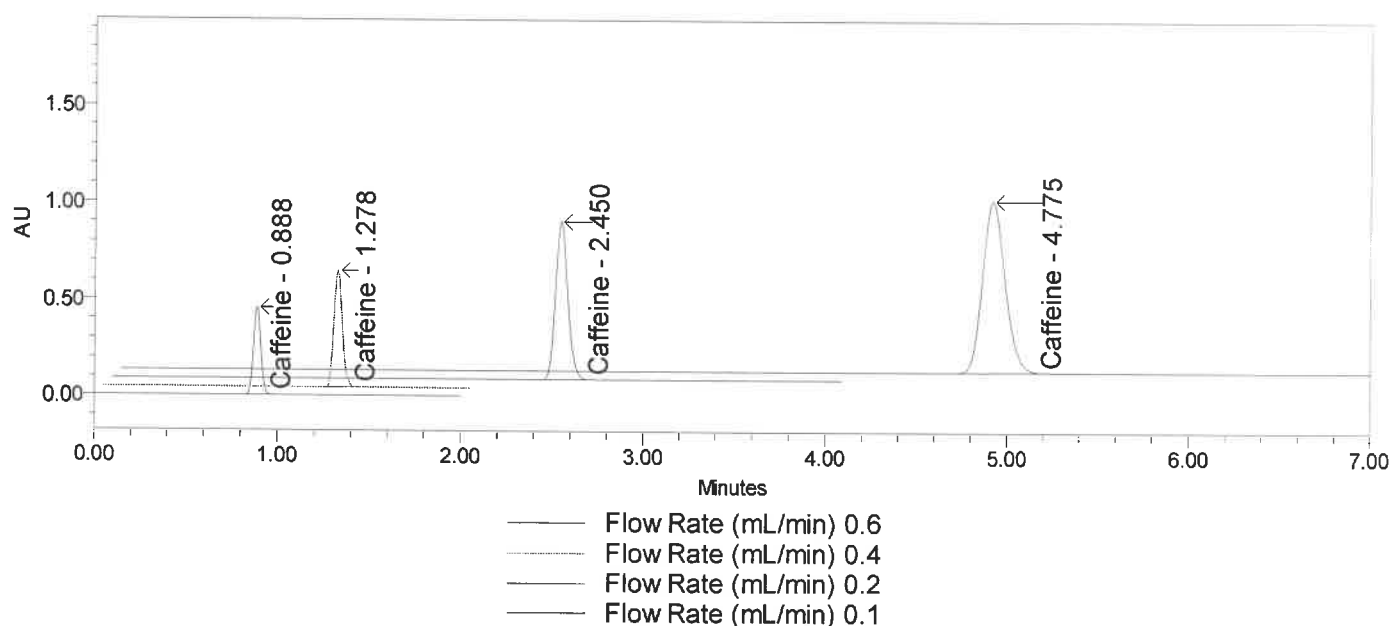
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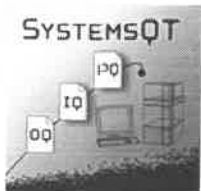
Overlay of Caffeine Peak Chromatograms



Flow Rate Linearity Results Table

Peak: Caffeine

	Vial	SampleName	Amount	Level	RT (min)	Reciprocal_RetrTime	X Value	Height (μV)	Area (μV*sec)	Channel Id	Result Id
1	2:E,4	Caffeine Flow 0.1	0.1	5	4.775	0.2094	0.1000	883849	7665524	14680	14687
2	2:E,4	Caffeine Flow 0.2	0.2	4	2.450	0.4081	0.2000	816780	3822237	14672	14686
3	2:E,4	Caffeine Flow 0.4	0.4	3	1.278	0.7824	0.4000	601877	1890948	14664	14685
4	2:E,4	Caffeine Flow 0.6	0.6	2	0.888	1.1264	0.6000	456637	1257520	14655	14684



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Flow Rate Linearity Results

Calibration Id 14682

Y Intercept 0.036001

Equation $Y = 1.83e+000 X + 3.60e-002$

Slope 1.832554

Fit Type Linear (1st Order)

R² 0.9992

Caffeine Flow Rate Linearity Calibration Plot

