

CARRYOVER REPORT

ACQUISITION INFORMATION

System Name: 2695_2	Acquired By: Tester
Processing Method: Carryover PM	Project Name: SQT_F18SM7186A
Result Set Id: 2971	Sample Kit 1 Lot Number: W04040902
Sample Set Id: 2966	Sample Kit 1 Exp. Date: 4/30/2015 12:00:00 AM
Sample Set Name: 040 Carryover SSM	Column Serial Number: 017139167157 42
Sample Set Start Date: 6/23/2018 6:28:50 PM SGT	

TEST DESCRIPTION

The Carryover test starts with two pre blank (mobile phase) injections to demonstrate that the system is free of unexplained or "ghost" peaks. This is followed by three injections of a 0.01% carryover standard (0.4 ug/mL caffeine). A challenge solution containing 4 mg/mL of caffeine is injected, followed by three blank injections. The caffeine peak in the three post blank injections is quantitated (if detected) against a 0.01% carryover standard.

The test passes if the % carryover is $\leq 0.01\%$ or the peak is missing.

Carryover Results

	SampleName	Carryover Specification	Peak Type	% Carryover	Carryover Pass/Fail
1	Post Blank 1	$\leq 0.01\%$	Found	0.000	PASS

Certification

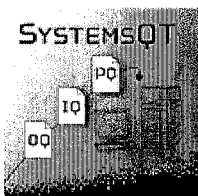
Comments

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

Performer _____ Date _____
Signature

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

Reviewer _____ Date _____
Signature



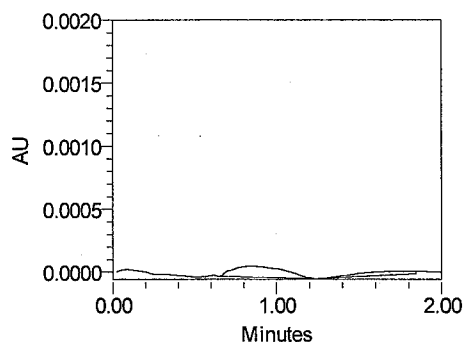
CARRYOVER REPORT

ACQUISITION INFORMATION

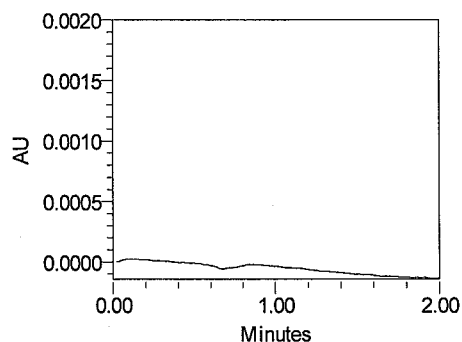
System Name: 2695_2
Project Name: SQT_F18SM7186A

Sample Set Id: 2966
Result Set Id: 2971

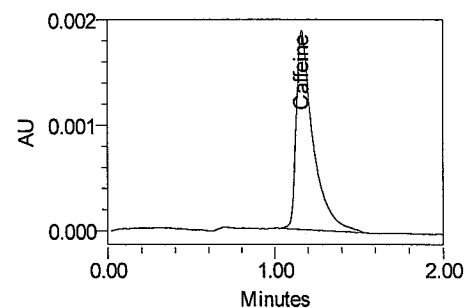
Carryover Chromatograms



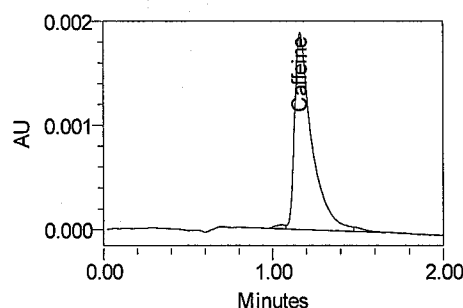
Sample PreBlank; Inj 1



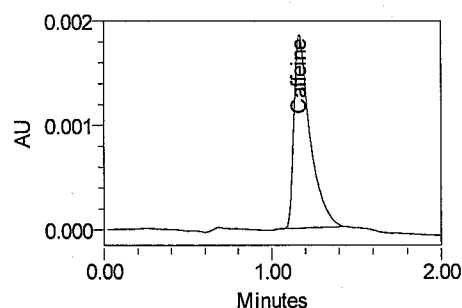
Sample PreBlank; Inj 2



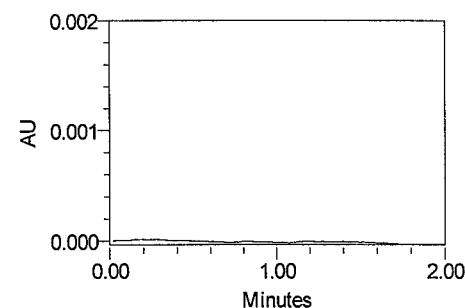
Sample Standard (0.01%);
Inj 1



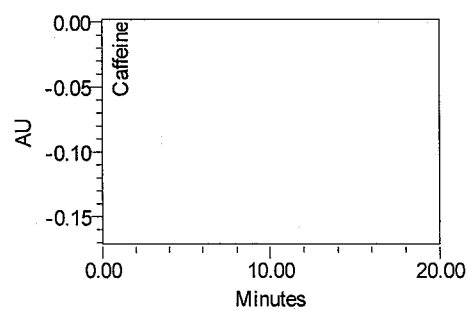
Sample Standard (0.01%);
Inj 2



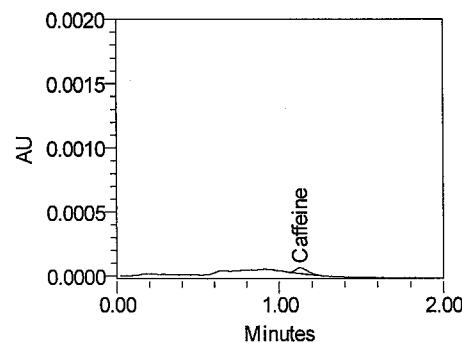
Sample Standard (0.01%);
Inj 3



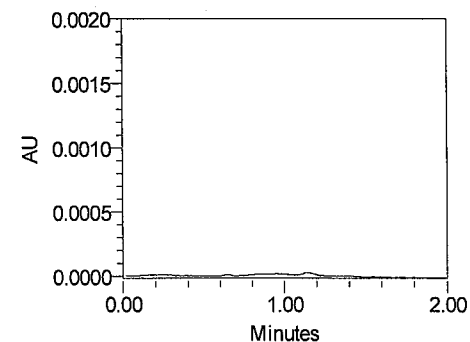
Sample (Pre)Post Blank; Inj
1



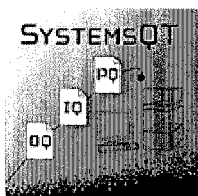
Sample Challenge (100%);
Inj 1



Sample Post Blank 1; Inj 1



Sample Post Blank 2; Inj 1

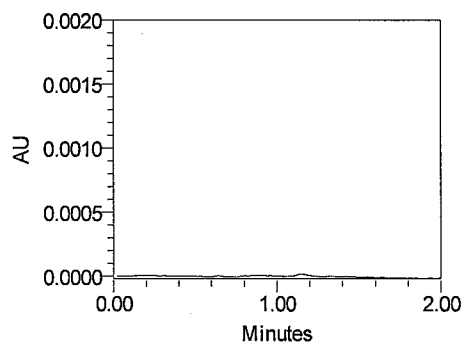


CARRYOVER REPORT

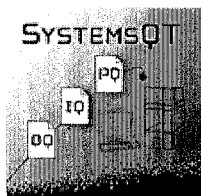
ACQUISITION INFORMATION

System Name: 2695_2
Project Name: SQT_F18SM7186A

Sample Set Id: 2966
Result Set Id: 2971



— Sample Post Blank 3; Inj 1



CARRYOVER REPORT

ACQUISITION INFORMATION

System Name: 2695_2
Project Name: SQT_F18SM7186A

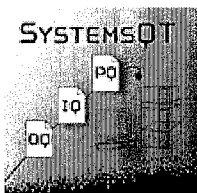
Sample Set Id: 2966
Result Set Id: 2971

Chromatographic Peak Results

	Sample Name	Sample Type	Vial	Name	RT	Area	Height (μ V)	Amount	Peak Type	Result Id
1	PreBlank	Unknown	60	Caffeine	1.300				Missing	3013
2	PreBlank	Unknown	60	Caffeine	1.300				Missing	3014
3	Standard (0.01%)	Standard	61	Caffeine	1.165	13284	1891	0.010	Found	3008
4	Standard (0.01%)	Standard	61	Caffeine	1.163	13244	1893	0.010	Found	3009
5	Standard (0.01%)	Standard	61	Caffeine	1.165	12225	1859	0.010	Found	3010
6	(Pre)Post Blank	Unknown	63	Caffeine	1.300				Missing	3015
7	Challenge (100%)	Unknown	62	Caffeine	1.153	47390246	3416130	36.687	Found	3011
8	Post Blank 1	Unknown	63	Caffeine	1.129	243	47	0.000	Found	3019
9	Post Blank 2	Unknown	63	Caffeine	1.300				Missing	3020
10	Post Blank 3	Unknown	63	Caffeine	1.300				Missing	3021

Carryover Summary Results

	SampleName	Peak Type	% Carryover
1	Post Blank 1	Found	0.000



CARRYOVER REPORT

ACQUISITION INFORMATION

System Name: 2695_2	Acquired By: Tester
Processing Method: Carryover PM	Project Name: SQT_F18SM7186A
Result Set Id: 3022	Sample Kit 1 Lot Number: W04040902
Sample Set Id: 3005	Sample Kit 1 Exp. Date: 4/30/2015 12:00:00 AM
Sample Set Name: 040 Carryover SSM	Column Serial Number: 017139167157 42
Sample Set Start Date: 6/23/2018 7:17:17 PM SGT	

TEST DESCRIPTION

The Carryover test starts with two pre blank (mobile phase) injections to demonstrate that the system is free of unexplained or "ghost" peaks. This is followed by three injections of a 0.01% carryover standard (0.4 ug/mL caffeine). A challenge solution containing 4 mg/mL of caffeine is injected, followed by three blank injections. The caffeine peak in the three post blank injections is quantitated (if detected) against a 0.01% carryover standard.

The test passes if the % carryover is $\leq$ 0.01% or the peak is missing.

Carryover Results

	SampleName	Carryover Specification	Peak Type	% Carryover	Carryover Pass/Fail
1	Post Blank 1	$\leq$ or = 0.01%	Found	0.000	PASS

Certification

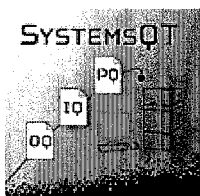
Comments

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

Performer _____ Date _____
Signature

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

Reviewer _____ Date _____
Signature



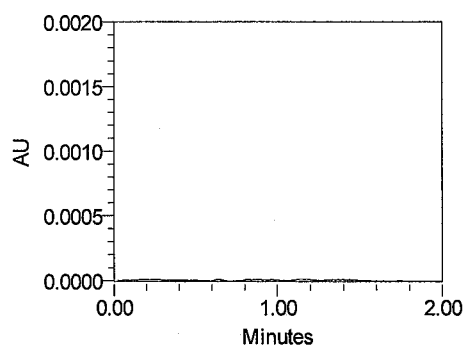
CARRYOVER REPORT

ACQUISITION INFORMATION

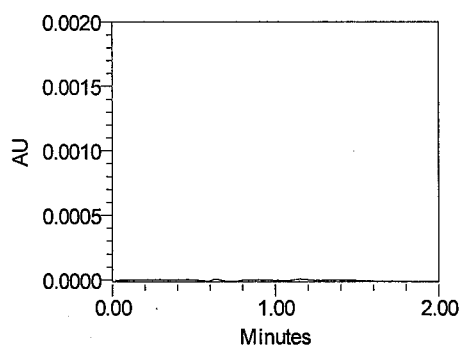
System Name: 2695_2
Project Name: SQT_F18SM7186A

Sample Set Id: 3005
Result Set Id: 3022

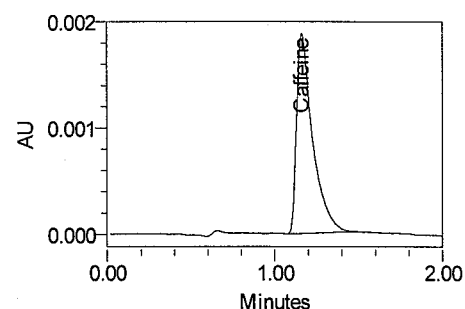
Carryover Chromatograms



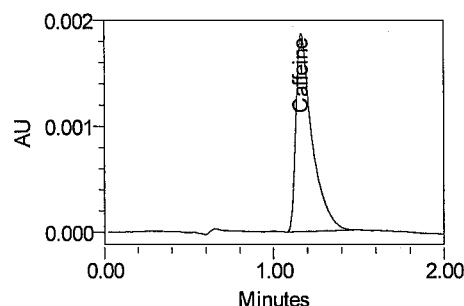
Sample PreBlank, Inj 1



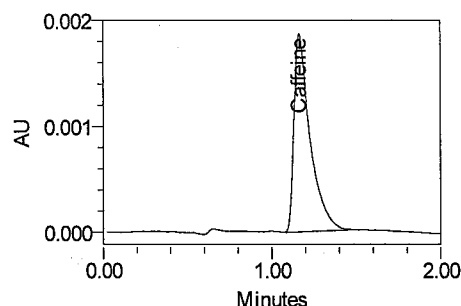
Sample PreBlank, Inj 2



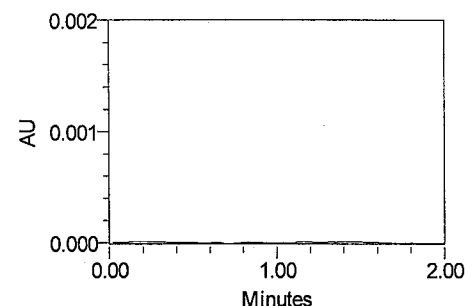
Sample Standard (0.01%);
Inj 1



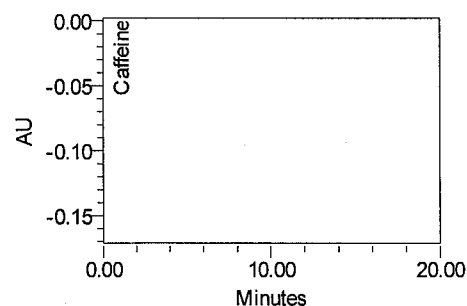
Sample Standard (0.01%);
Inj 2



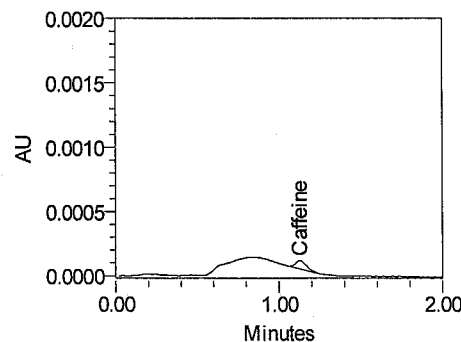
Sample Standard (0.01%);
Inj 3



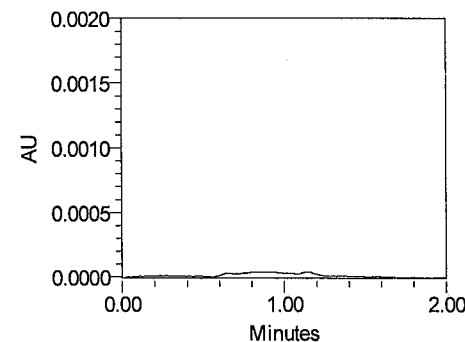
Sample (Pre)Post Blank, Inj
1



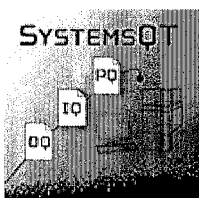
Sample Challenge (100%);
Inj 1



Sample Post Blank 1; Inj 1



Sample Post Blank 2; Inj 1

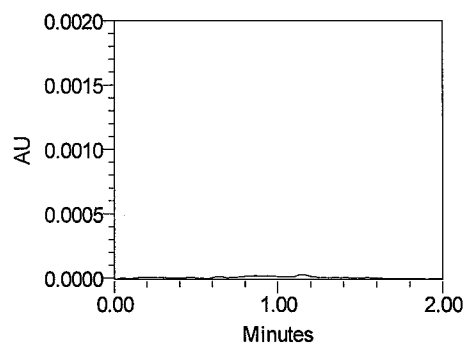


CARRYOVER REPORT

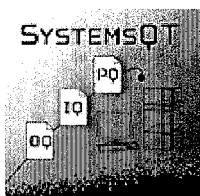
ACQUISITION INFORMATION

System Name: 2695_2
Project Name: SQT_F18SM7186A

Sample Set Id: 3005
Result Set Id: 3022



Sample Post Blank 3; Inj 1



CARRYOVER REPORT

ACQUISITION INFORMATION

System Name: 2695_2
Project Name: SQT_F18SM7186A

Sample Set Id: 3005
Result Set Id: 3022

Chromatographic Peak Results

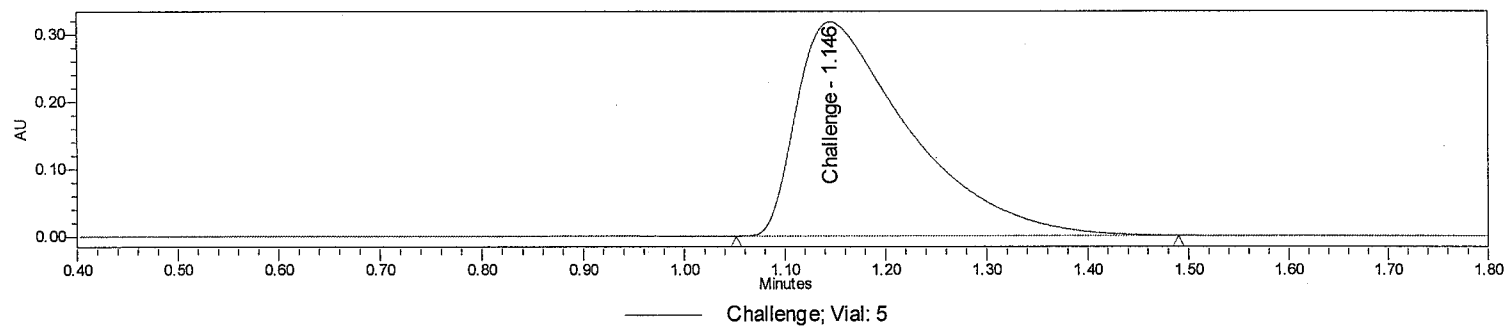
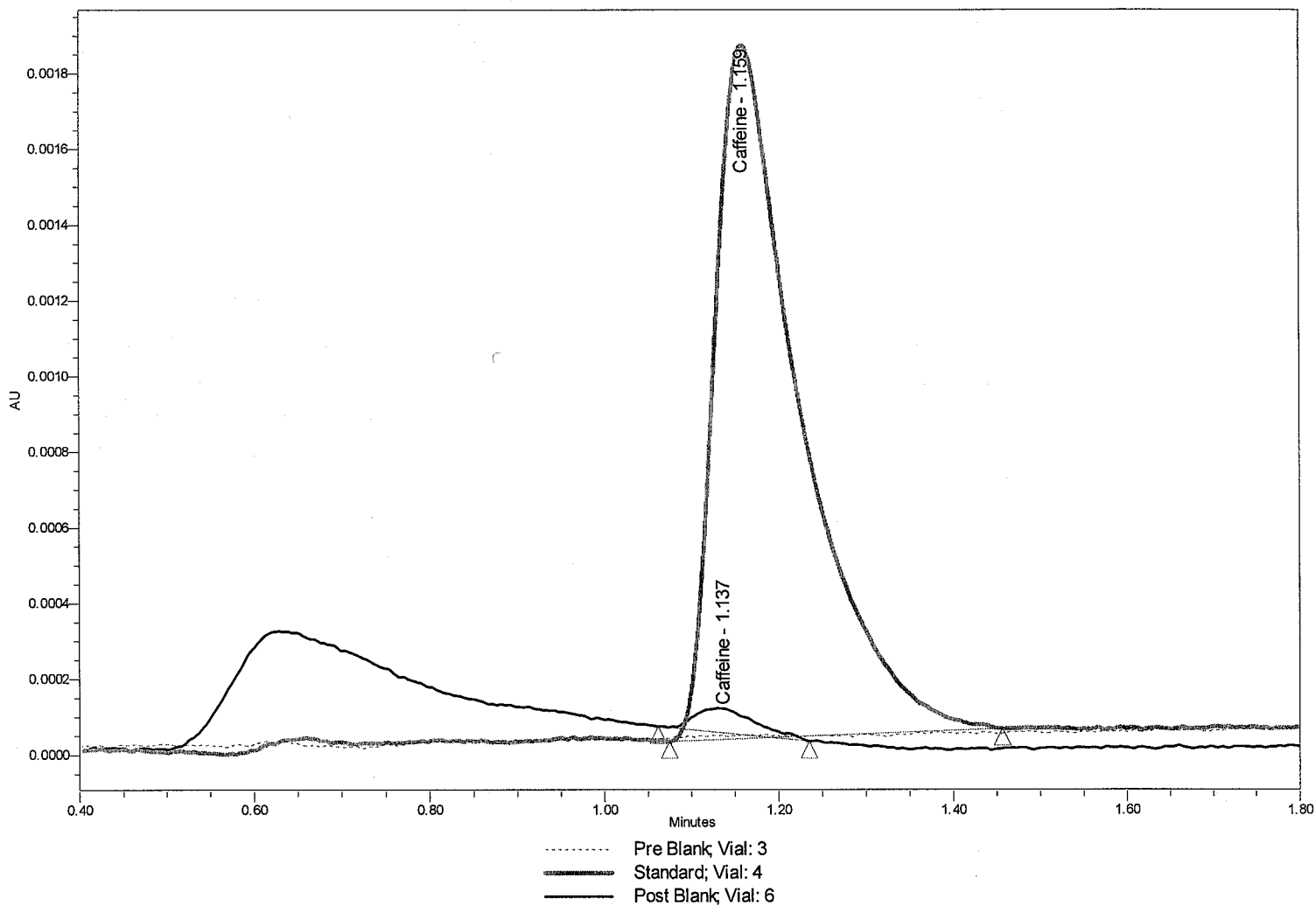
	Sample Name	Sample Type	Vial	Name	RT	Area	Height (µV)	Amount	Peak Type	Result Id
1	PreBlank	Unknown	60	Caffeine	1.300				Missing	3062
2	PreBlank	Unknown	60	Caffeine	1.300				Missing	3063
3	Standard (0.01%)	Standard	61	Caffeine	1.163	12509	1884	0.010	Found	3058
4	Standard (0.01%)	Standard	61	Caffeine	1.164	12445	1875	0.010	Found	3059
5	Standard (0.01%)	Standard	61	Caffeine	1.165	12506	1874	0.010	Found	3060
6	(Pre)Post Blank	Unknown	63	Caffeine	1.300				Missing	3064
7	Challenge (100%)	Unknown	62	Caffeine	1.154	47409521	3422356	37.969	Found	3061
8	Post Blank 1	Unknown	63	Caffeine	1.131	310	67	0.000	Found	3065
9	Post Blank 2	Unknown	63	Caffeine	1.300				Missing	3066
10	Post Blank 3	Unknown	63	Caffeine	1.300				Missing	3067

Carryover Summary Results

	SampleName	Peak Type	% Carryover
1	Post Blank 1	Found	0.000

Part Number: 186269505
 Tested By: CHONG WOOL KHIP
 Serial Number: F18SM7186A
 UUT Firmware: 3.04

Description: 2695 Separations Module
 Test Template Revision: 1.8
 Test Station: Final-test-6
 System: 2695_2



	Date Acquired	SampleName	Area	Percent
1	6/25/2018 9:58:52 AM SGT	Pre Blank		
2	6/25/2018 10:01:33 AM SGT	Standard	12449	0.0100
3	6/25/2018 10:04:16 AM SGT	Challenge	2466613	
4	6/25/2018 10:20:13 AM SGT	Post Blank	312	0.0003

Carryover Test:
 PreBlank injection (to establish system cleanliness)
 Standard (0.4 PPM) Caffeine injection
 Challenge injection (10,000 X Standard = 4,000 PPM)
 PostBlank injection
 $\text{Carryover (\%)} = \frac{\text{Carryover Area}}{\text{Standard Area}} \times 0.010$
 Specification: Post Blank Percent < 0.002
 (or Blank peak(s) missing/blank)

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Part Number: 186269505

Tested By: CHONG WOOL KHIP

Serial Number: F18SM7186A

UUT Firmware: 3.04

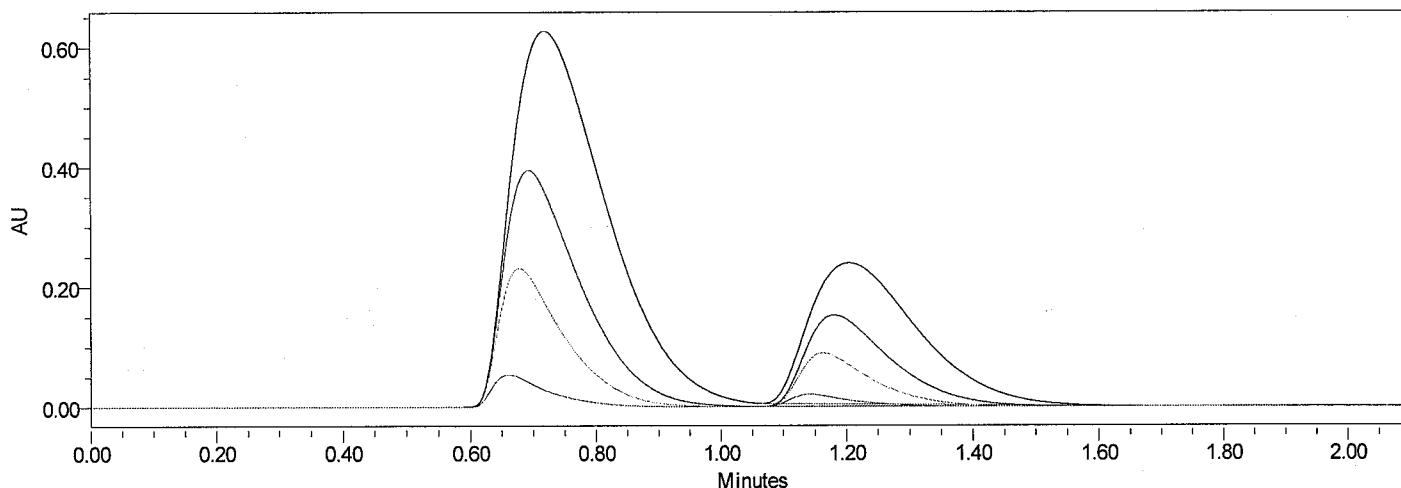
Description: 2695 Separations Module

Test Template Revision: 1.8

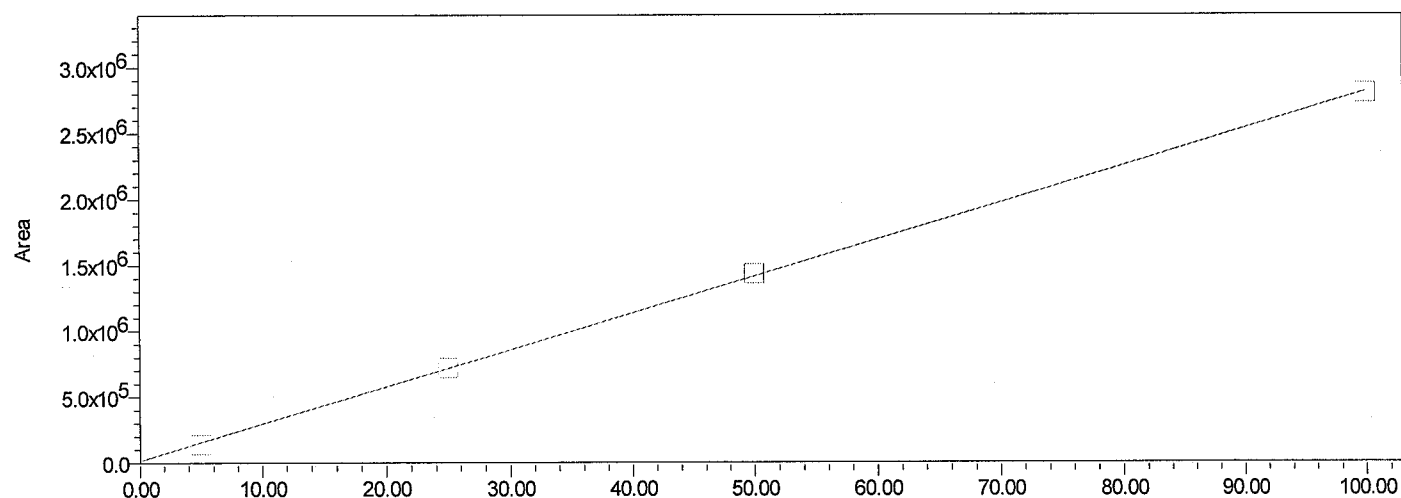
Test Station: Final-test-6

System: 2695_2

Overlaid Caffeine Peak Chromatograms



Calibration Plot



Injection Linearity and Accuracy

Fit Type Linear (1st Order)

A 16720.805824

Equation $Y = 2.80e+004 X + 1.67e+004$

B 27958.721430

X_Intercept -0.598

R² 0.9998

$$1-(A/B) = X \text{ Intercept (ul)}$$

Specs: R² >= 0.999, |X-Intercept| <= 1.0 ul

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Part Number: 186269505
 Tested By: CHONG WOOL KHIP
 Serial Number: F18SM7186A
 UUT Firmware: 3.04

Description: 2695 Separations Module
 Test Template Revision: 1.8
 Test Station: Final-test-6
 System: 2695_2

Component Summary For Retention Time

	Sample	Vo	Caffeine
1	Precision AC	0.6754	1.1703
2	Precision AC	0.6758	1.1713
3	Precision AC	0.6761	1.1718
4	Precision AC	0.6768	1.1728
5	Precision AC	0.6751	1.1713
6	Precision AC	0.6760	1.1721
Std. Dev.		0.0006	0.0008

Component Summary For Area

	Sample	Caffeine
1	Precision AC	3608825
2	Precision AC	3605082
3	Precision AC	3607544
4	Precision AC	3606371
5	Precision AC	3614438
6	Precision AC	3604766
% RSD		0.099

Component Summary For Pressure_Ripple

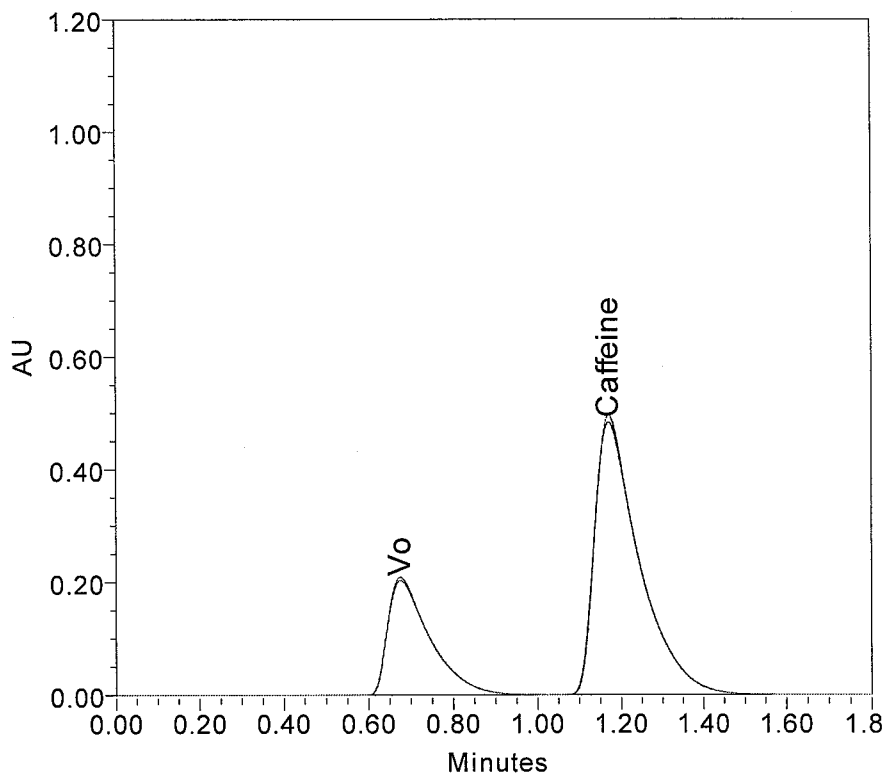
	Date Acquired	
1	6/25/2018 10:39:14 AM SGT	12.17
2	6/25/2018 10:41:58 AM SGT	12.47
3	6/25/2018 10:44:40 AM SGT	9.37
4	6/25/2018 10:47:23 AM SGT	12.55
5	6/25/2018 10:50:05 AM SGT	10.31
6	6/25/2018 10:52:49 AM SGT	11.98
Mean		11.48

Specifications:

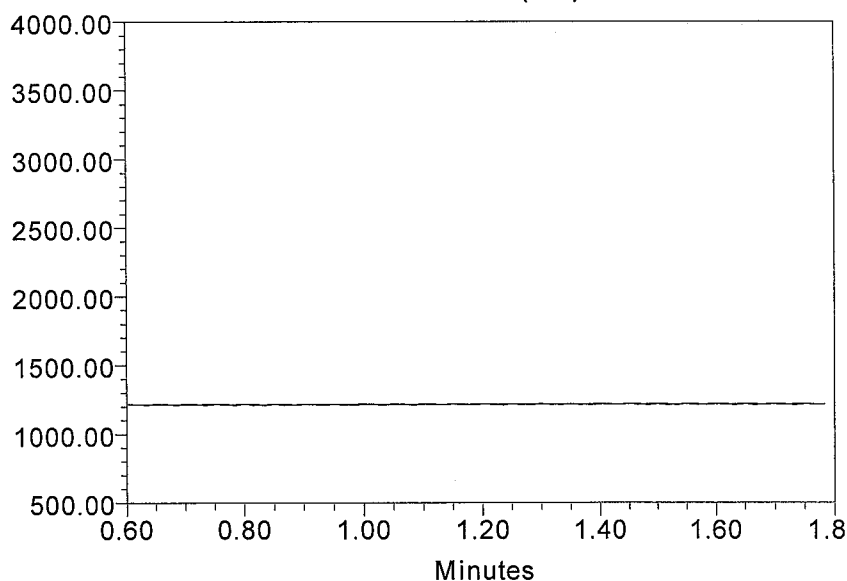
Retention Time Standard Deviation: <= 0.0090 min

Area % RSD: <= 0.500

Mean Pressure Ripple < 65 PSI



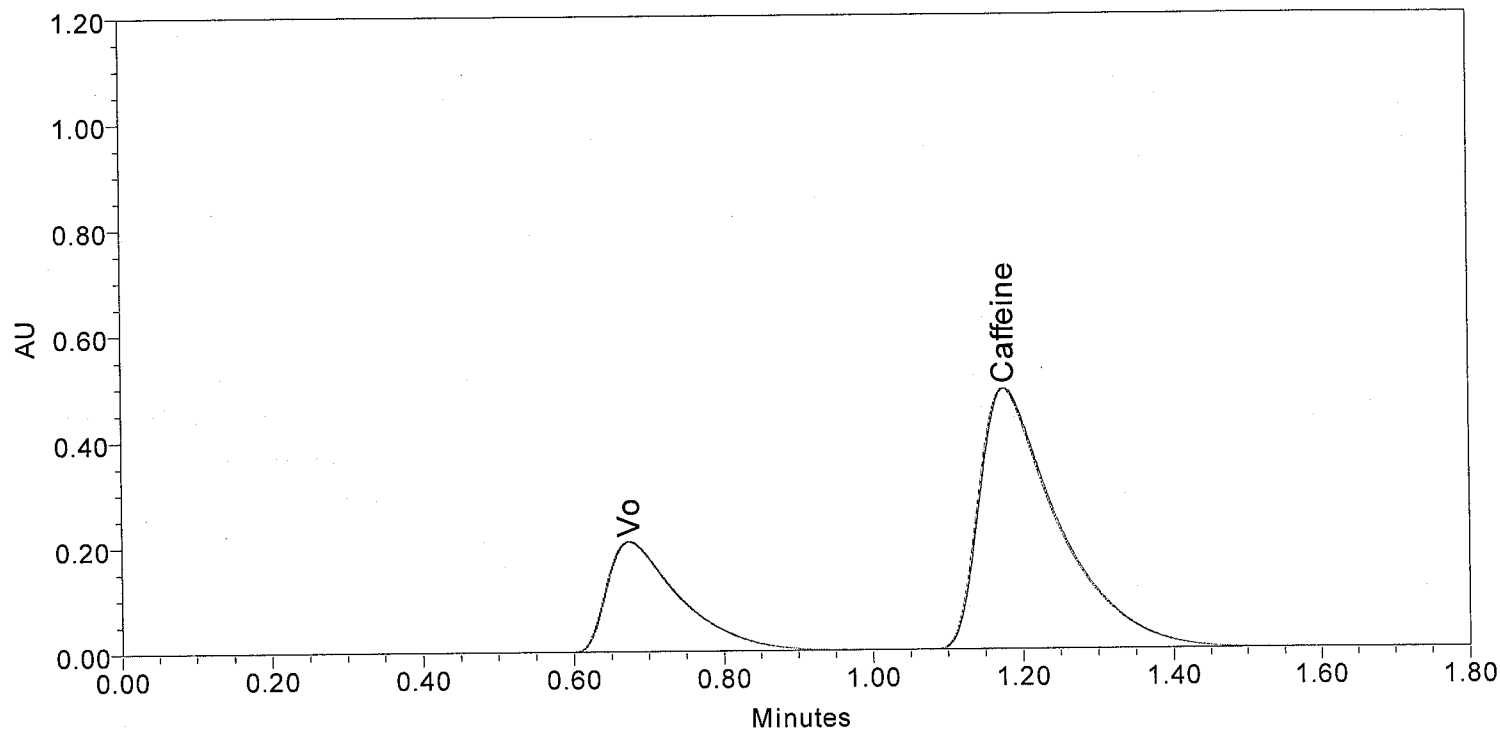
SYSTEM PRESSURE (PSI)



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Part Number: 186269505
 Tested By: CHONG WOOL KHIP
 Serial Number: F18SM7186A
 UUT Firmware: 3.04

Description: 2695 Separations Module
 Test Template Revision: 1.8
 Test Station: Final-test-6
 System: 2695_2



Component Summary For Retention Time

	Sample	Date	Vo	Caffeine
1	Precision BD	6/25/2018 11:06:35 AM SGT	0.6753	1.1773
2	Precision BD	6/25/2018 11:09:20 AM SGT	0.6760	1.1773
3	Precision BD	6/25/2018 11:12:04 AM SGT	0.6752	1.1774
4	Precision BD	6/25/2018 11:14:46 AM SGT	0.6755	1.1777
5	Precision BD	6/25/2018 11:17:28 AM SGT	0.6733	1.1754
6	Precision BD	6/25/2018 11:20:13 AM SGT	0.6741	1.1754
Std. Dev.			0.0010	0.0010

Component Summary For Area

	Sample	Date	Caffeine
1	Precision BD	6/25/2018 11:06:35 AM SGT	3611255.77
2	Precision BD	6/25/2018 11:09:20 AM SGT	3609745.96
3	Precision BD	6/25/2018 11:12:04 AM SGT	3610372.10
4	Precision BD	6/25/2018 11:14:46 AM SGT	3603326.71
5	Precision BD	6/25/2018 11:17:28 AM SGT	3599503.22
6	Precision BD	6/25/2018 11:20:13 AM SGT	3602158.13
% RSD			0.139

Specifications:
 Retention Time Standard Deviation: <= 0.0090 minutes
 Area % RSD: <= 0.500

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Tested By: CHONG WOOL KHIP

Serial Number: F18SM7186A

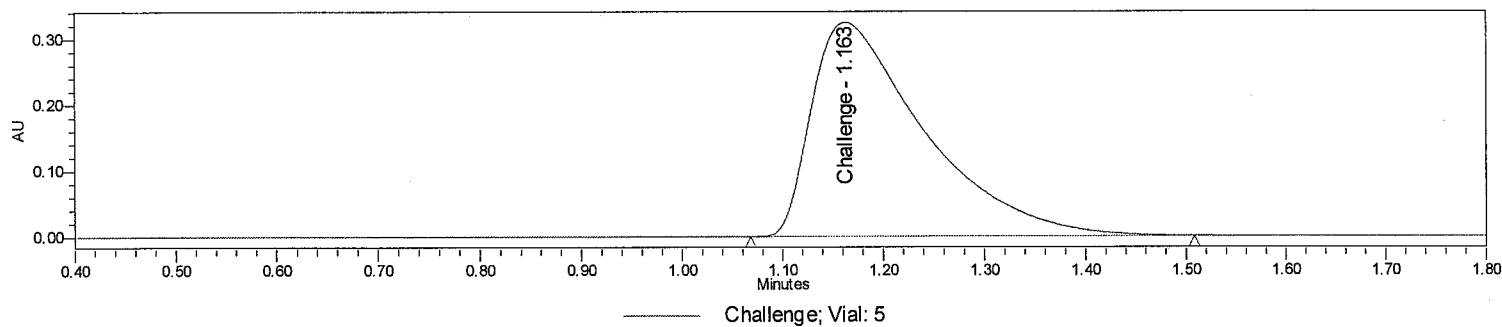
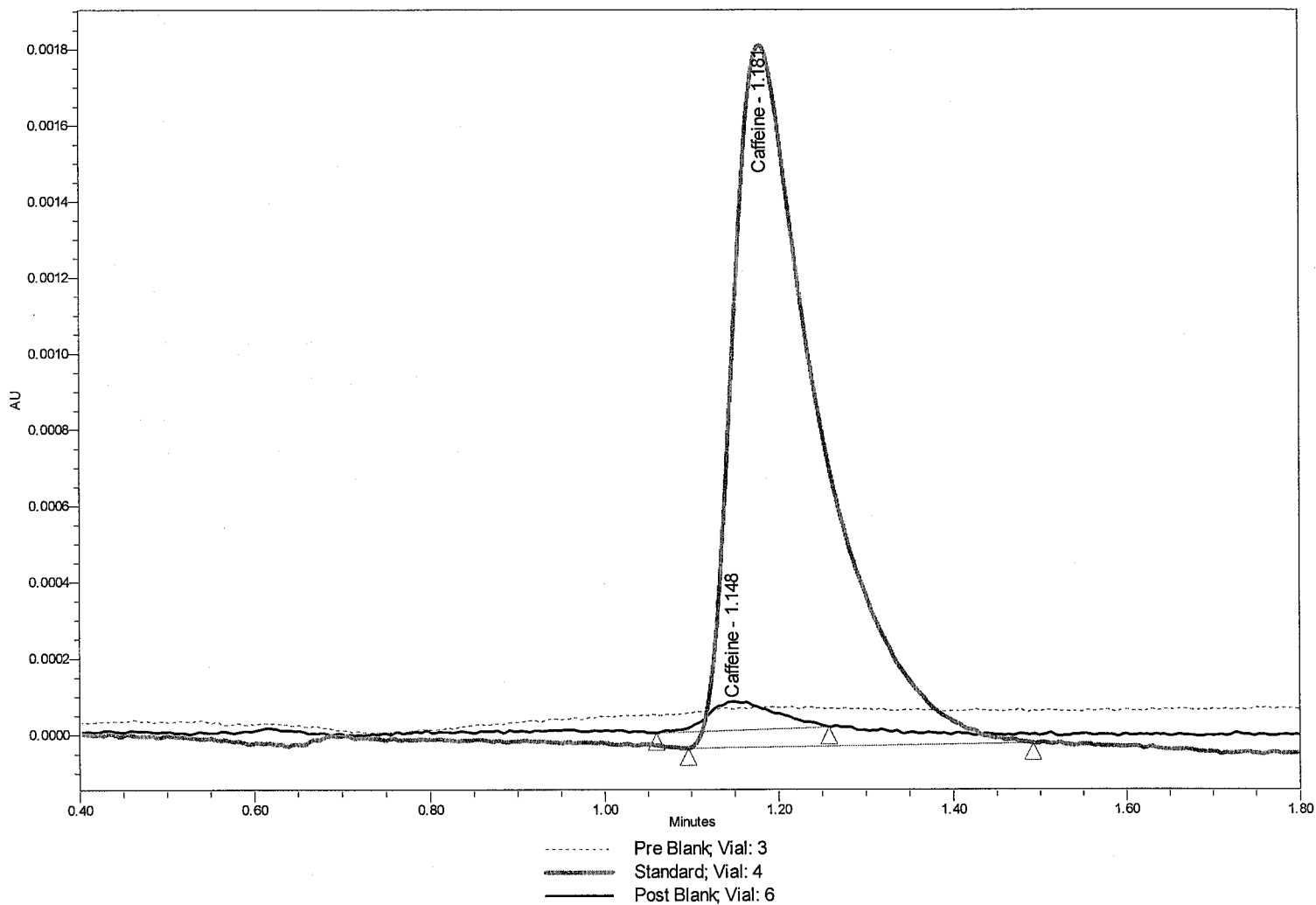
UUT Firmware: 3.04

Description: 2695 Separations Module

Test Template Revision: 1.8

Test Station: Final-test-6

System: 2695_2



	Date Acquired	SampleName	Area	Percent
1	6/25/2018 11:50:35 AM SGT	Pre Blank		
2	6/25/2018 11:53:18 AM SGT	Standard	12646	0.0100
3	6/25/2018 11:56:02 AM SGT	Challenge	2507192	
4	6/25/2018 12:12:00 PM SGT	Post Blank	411	0.0003

Carryover Test:

PreBlank injection (to establish system cleanliness)

Standard (0.4 PPM) Caffeine injection

Challenge injection (10,000 X Standard = 4,000 PPM)

PostBlank injection

Carryover (%) = Carryover Area/Standard Area * 0.010

Specification: Post Blank Percent < 0.002

(or Blank peak(s) missing/blank)

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Part Number: 186269505

Tested By: CHONG WOOL KHIP

Serial Number: F18SM7186A

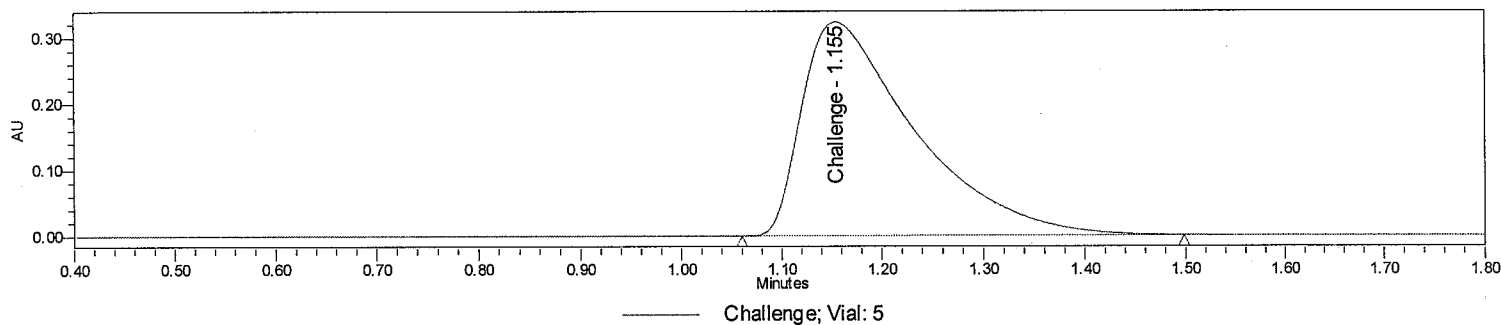
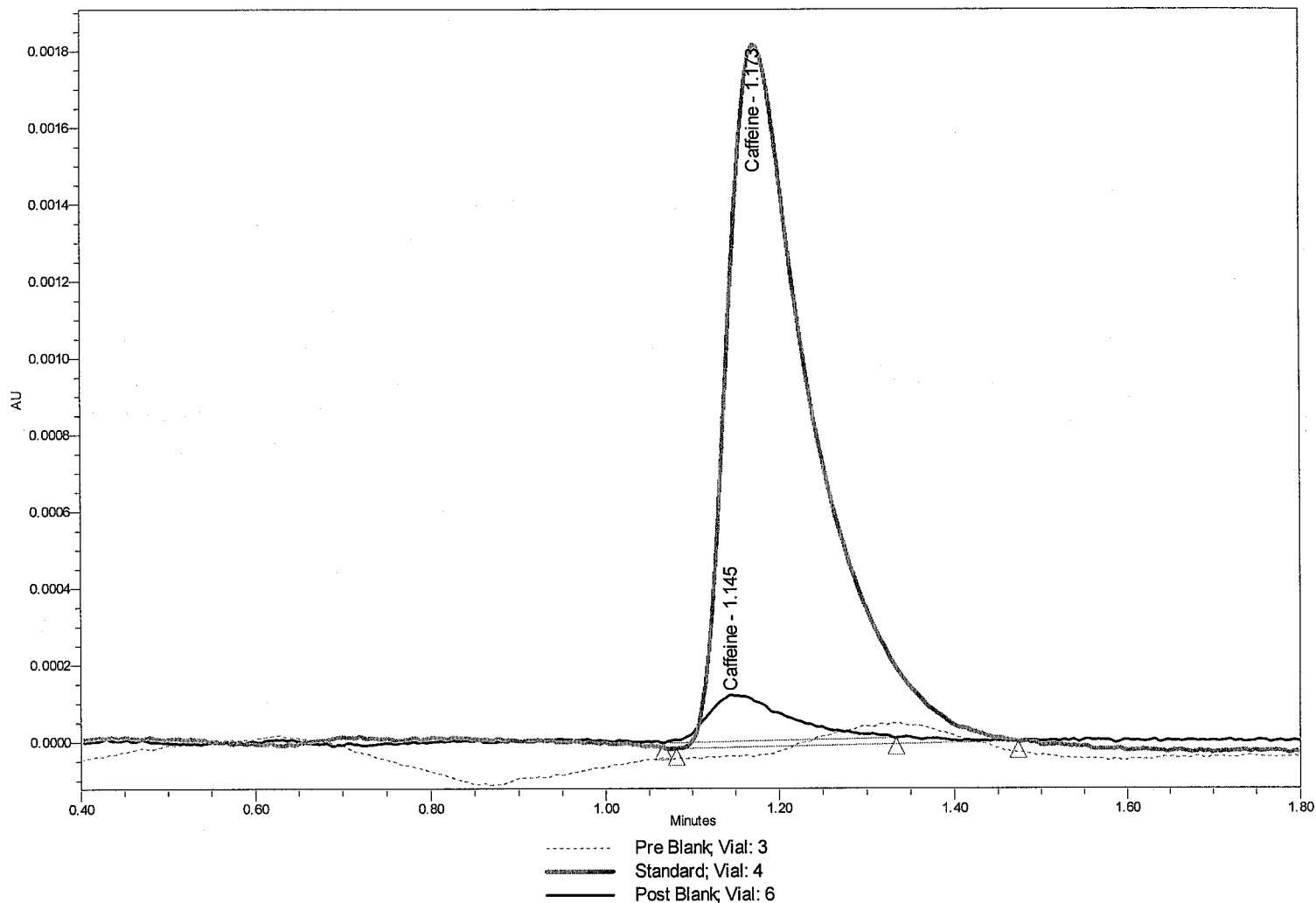
UUT Firmware: 3.04

Description: 2695 Separations Module

Test Template Revision: 1.8

Test Station: Final-test-6

System: 2695_2



	Date Acquired	SampleName	Area	Percent
1	6/25/2018 1:32:04 PM SGT	Pre Blank		
2	6/25/2018 1:34:47 PM SGT	Standard	12584	0.0100
3	6/25/2018 1:37:31 PM SGT	Challenge	2505512	
4	6/25/2018 1:53:27 PM SGT	Post Blank	783	0.0006

Carryover Test:

PreBlank injection (to establish system cleanliness)

Standard (0.4 PPM) Caffeine injection

Challenge injection (10,000 X Standard = 4,000 PPM)

PostBlank injection

Carryover (%) = Carryover Area/Standard Area * 0.010

Specification: Post Blank Percent < 0.002

(or Blank peak(s) missing/blank)

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