



### 16.1.9.3 BIOANALYTICAL REPORTS

Determination of Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine Samples by LC-MS/MS (Study AA99071-06)



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**Determination of Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine Samples from "A Randomized, Controlled, Open-label, 3-Arm Parallel Group, Single-Center Study to Demonstrate Reductions in Exposure to Selected Smoke Constituents in Smoking, Healthy Subjects Switching to the Tobacco Heating System 2.2 (THS 2.2) or Smoking Abstinence, Compared to Continuing to Use Conventional Cigarettes, for 5 Days in Confinement" by LC-MS/MS**

Study: AA99071-06

Bioanalytical Final Report

Philip Morris Products S.A.  
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2000 Neuchâtel, Switzerland

Protocol ZRHR-REXC-03-EU

Report Date: 11-Mar-2015

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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

## STUDY LOCATION

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11-Mar-2015

Date

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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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#### STATEMENT OF COMPLIANCE

The bioanalytical phase of the study was performed according to applicable GLP requirements and in compliance with Standard Operating Procedures (SOPs) in effect in the bioanalytical laboratory of Celerion, Lincoln, Nebraska. The SOPs are written based on the principles and requirements described in United States Food and Drug Administration Title 21 Code of Federal Regulations (CFR) Part 58, the Guidance for Industry – Bioanalytical Method Validation (CDER, May 2001), and Guideline on Bioanalytical Method Validation (European Medicines Agency [EMA/CHMP/EWP/192217/2009], Effective February 2012).

This production study was conducted in accordance with the guidelines documented in the bioanalytical study plan. To ensure the integrity of the reported data, the bioanalytical laboratory verified all results. The Quality Assurance unit of Celerion, Lincoln, Nebraska, audited the study. A Quality Assurance statement was then issued and is included within this document.

The data summaries, results, and conclusions in this bioanalytical report have been reviewed and were found to be consistent and scientifically rational. All deviations from the protocol and/or significant deviations from SOPs documented in this report have been reviewed and are scientifically valid.

I accept responsibility for the scientific integrity of the data included within the bioanalytical report.

Kirk Newland, B.S.  
Technical Director, Tobacco Sciences

11-Mar-2015

Date



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**QUALITY ASSURANCE STATEMENT**

Phase Audited	Audit Date(s)	Date Reported to Study Director/ Bioanalytical Principal Investigator	Date Audit Report Signed by Management
Bioanalytical Study Plan	18-Jun-2013	18-Jun-2013	24-Jun-2013
Critical Phase	03, 07-Oct-2013	07-Oct-2013	16-Oct-2013
Database	03, 04, 05-Dec-2013	05-Dec-2013	18-Dec-2013
Database (EDT File)	01-Apr-2014	01-Apr-2014	30-May-2014
Bioanalytical Report (Final Draft)	29, 30-May-2014 02-Jun-2014	02-Jun-2014	02-Jun-2014
Bioanalytical Report (Final)	10-Mar-2015	10-Mar-2015	10-Mar-2015

Celerion Quality Assurance audited various phases of this study as shown above. This statement confirms that the methods, procedures, and results as presented in this report accurately reflect the raw data of the study.

Jennifer Ortiz Torres, B.S., ASQ-CQA  
Quality Assurance Auditor

Date





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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## 1. INTRODUCTION

The purpose of this bioanalytical study (hereafter referred to as study) was to determine the concentration of nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide in human urine samples by LC-MS/MS method. The study samples were collected in the clinical study ZRHR-REXC-03-EU, entitled, "A Randomized, Controlled, Open-label, 3-Arm Parallel Group, Single-Center Study to Demonstrate Reductions in Exposure to Selected Smoke Constituents in Smoking, Healthy Subjects Switching to the Tobacco Heating System 2.2 (THS 2.2) or Smoking Abstinence, Compared to Continuing to Use Conventional Cigarettes, for 5 Days in Confinement" [3]. Sample analysis was conducted between 01-Nov-2013 and 25-Nov-2013.

This report provides the results and supporting documentation from the analysis of study samples and includes an evaluation of assay performance.

## 2. EXPERIMENTAL

### 2.1. Test Item

The test items are defined in the clinical study protocol [3].

### 2.2. Reference Items and Internal Standards

	Analyte	Internal Standard (IS)
ID	Nicotine	d <sub>4</sub> -Nicotine
Source	Synthèse AptoChem Inc.	Synthèse AptoChem Inc.
Lot No.	AC0105001*	AC0105003 <sup>†</sup>
Purity / Concentration	99.5% (912 µg/mL)*	96.0% (1010 µg/mL) <sup>†</sup>
Celerion Assigned Correction Factor	1.0000	1.0000
Expiry Date	04-Jan-2014*	30-Jun-2014 <sup>†</sup>
Storage Conditions	Refrigerated (5 °C), protected from light	Refrigerated (5 °C), protected from light

\*Recertified with new expiry date of 30-Jun-2014 with purity/concentration of 99.7% (914 µg/mL)

<sup>†</sup>Current internal standard reference material has been recertified during the study execution.



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	Analyte	Internal Standard (IS)
ID	Cotinine	d <sub>3</sub> -Cotinine
Source	(b) (4)	(b) (4)
Lot No.	AC0105002*	AC0105004 <sup>+</sup>
Purity / Concentration	99.6% / 984 µg/mL*	99.6% / 1000 µg/mL <sup>+</sup>
Celerion Assigned Correction Factor	1.0000	1.0000
Expiry Date	03-Jan-2014*	01-Jul-2014 <sup>+</sup>
Storage Conditions	Refrigerated (5 °C), protected from light	Refrigerated (5 °C), protected from light

\*Recertified with new expiry date of 01-Jul-2014 with purity/concentration of 99.8% (986 µg/mL)

<sup>+</sup>Current internal standard reference material has been recertified during the study execution.

	Analyte	Internal Standard (IS)
ID	<i>trans</i> -3'-Hydroxycotinine	d <sub>3</sub> - <i>trans</i> -3'-Hydroxycotinine
Source	(b) (4)	(b) (4)
Lot No.	C8-127-040	C8-127-047
Potency	99.7%	99.9%
Celerion Assigned Correction Factor	0.9969	0.9990
Expiry Date	02-Apr-2014	11-Apr-2014
Storage Conditions	Freezer (-20 °C), protected from light, desiccant	Freezer (-20 °C), protected from light, desiccant

	Analyte	Internal Standard (IS)
ID	Nicotine- <i>N</i> -Glucuronide	d <sub>3</sub> -Nicotine- <i>N</i> -Glucuronide
Source	(b) (4)	(b) (4)
Lot No.	DDT-MDSPSR5-VI-244A	AC0105011 <sup>+</sup>
Potency / Purity / Concentration	84.0% (potency)	93.0 % (1010 µg/mL) <sup>+</sup>
Celerion Assigned Correction Factor	0.8400	1.000
Expiry Date	12-Dec-2013	14-Jun-2014 <sup>+</sup>
Storage Conditions	Freezer (-20 °C), protected from light, desiccant	Refrigerated (5 °C), protected from light

<sup>+</sup>Current internal standard reference material has been recertified during the study execution.





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	Analyte	Internal Standard (IS)
ID	Cotinine- <i>N</i> -Glucuronide	d <sub>3</sub> -Cotinine- <i>N</i> -Glucuronide
Source	(b) (4)	(b) (4)
Lot No.	AC0303173*	AC0105010
Purity / Concentration	94.3 % (2470 µg/mL)*	80.9 % (1010 µg/mL)
Celerion Assigned Correction Factor	1.0000	1.0000
Expiry Date	09-Jan-2014*	13-Jun-2014
Storage Conditions	Ambient Temperature, protected from light	Refrigerated (5 °C), protected from light

\*Recertified with new expiry date of 08-Jul-2014 with purity/concentration of 68.4% (1790 µg/mL)

	Analyte	Internal Standard (IS)
ID	<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Glucuronide	d <sub>3</sub> - <i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Glucuronide
Source	(b) (4)	(b) (4)
Lot No.	AC0303175 / AC0105016*	AC0105014 <sup>+</sup>
Purity / Concentration	90.6% (2490 µg/mL) / 90.3% (2400 µg/mL)*	93.5% (990 µg/mL) <sup>+</sup>
Celerion Assigned Correction Factor	1.0000	1.0000
Expiry Date	11-Jan-2014 / 21-Jan-2014*	18-Jun-2014 <sup>+</sup>
Storage Conditions	Refrigerated (5 °C), protected from light	Refrigerated (5 °C), protected from light

\*Recertified with new expiry date of 28-Apr-2014 with purity/concentration of 89.7% (2390 µg/mL)

<sup>+</sup>Current internal standard reference material has been recertified during the study execution.

The certificate(s) of analysis for the reference items and internal standards are presented in [Attachment 6](#).

Reference items and internal standards are retained under the conditions that are specified until they become expired. They will then be removed from the active library or stored for an additional period for the testing of long-term stability.

### 2.3. Biological Matrix

Human urine was collected in-house at Celerion in Lincoln, Nebraska. Human urine stored at -20°C may be stored for a period less than 24 months prior to use. Human urine, free of significant interference, was used as a control matrix and to prepare calibration standards and quality control (QC) samples.



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## 2.4. Test System

### 2.4.1. Procedure and Instruments

#### Procedure and Instrumentation

Extraction Method	Combined liquid-liquid and solid phase extraction
Chromatography system	Perkin Elmer Series 200 Micropump HPLC <sup>^</sup>
MS/MS system	AB SCIEX API 4000 <sup>TM^</sup>
Regression Type	Weighted linear regression curve (1/concentration <sup>2</sup> )
Quantitation Method	Peak area ratio
Assay Volume	0.250 mL

<sup>^</sup> = Qualified systems

### 2.4.2. Computer Application Software

#### Software

LC-MS/MS software	Applied Biosystems Analyst <sup>®</sup> 1.5.1 <sup>^</sup>
LIMS	Thermo Electron Corporation Watson <sup>TM</sup> 7.3 Bioanalytical LIMS 7.3 <sup>^</sup>
LIMS application	Inspector Version 1.1.1 <sup>^</sup>
Laboratory Documentation System	Labnotes <sup>TM</sup> Web Client 1.21 <sup>^</sup>
Office applications	Microsoft <sup>®</sup> Office 2007 Package

<sup>^</sup> = Validated systems

## 2.5. Calibration Standards, Quality Control Samples and Dilution Quality Control Samples

Non-zero calibration standards at the concentration levels of 50.0, 100, 200, 400, 800, 1500, 4000, and 5000 ng/mL of nicotine, cotinine, *trans*-3'-hydroxycotinine, and nicotine-*N*-glucuronide and 200, 400, 800, 1600, 3200, 6000, 16,000, and 20,000 ng/mL of cotinine-*N*-glucuronide and *trans*-3'-hydroxycotinine-*O*-glucuronide were prepared in bulk on 28-Oct-2013, aliquoted and stored at -20°C. It should be noted that the standard calibrators were prepared in bulk and stored with appropriate stability established (476 days of long-term storage stability) rather than prepared fresh daily from spiking solutions.

Quality control (QC) samples at the concentration levels of 150 ng/mL, 500 ng/mL, and 3750 ng/mL of nicotine, cotinine, *trans*-3'-hydroxycotinine, and nicotine-*N*-glucuronide and of 600 ng/mL, 2000 ng/mL, and 15,000 ng/mL of cotinine-*N*-glucuronide and *trans*-3'-hydroxycotinine-*O*-glucuronide and dilution quality control (DQC) samples at the concentration levels of 10,000 ng/mL of nicotine, cotinine, *trans*-3'-hydroxycotinine, and nicotine-*N*-glucuronide and of 40,000 ng/mL of cotinine-*N*-glucuronide and *trans*-3'-hydroxycotinine-*O*-



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glucuronide were prepared in bulk on 28-Oct-2013, aliquoted and stored at -20°C. QC samples were stored under the same conditions as the study samples were stored and were analyzed within the established long-term stability of 476 days.

Standard calibrators and quality control samples were prepared from separate stock solutions.

## 2.6. Study Samples

### 2.6.1. Sample Source and Date of Receipt

Study samples were collected between 11-Jul-2013 and 18-Sep-2013 and were received frozen on dry ice between 22-Jul-2013 and 18-Oct-2013 from Covance Central Laboratory Services, Indianapolis, Indiana and Meyrin, Switzerland.

### 2.6.2. Sample Identification

Study samples were identified based on the subject screening number and time point documented on the sample label.

### 2.6.3. Sample Storage and Stability

Study samples were stored from sample collection to the end of sample analysis at a nominal temperature of -20°C for a duration not exceeding 138 days.

Study samples were analyzed without exceeding long-term, short-term, freeze-thaw, or post-preparative stability. The following evaluations have been conducted:

Stability Summary [5]	Nicotine, <i>trans</i> -3'-Hydroxycotinine
Long-term Stability	476 days in polypropylene tubes at -20 C
Short-term Stability	25 hours in polypropylene tubes at ambient temperature under white light
Cumulative Short-term Stability	57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
Freeze-thaw Stability	6 freeze (-20 C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
Post-preparative Stability	229 hours in a polypropylene 96 well plate at 5 C
Processed Sample Integrity	183 hours in a polypropylene 96 well plate at 5 C
Sample Shipping Stability	18 days in polypropylene tubes at -80 C





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Stability Summary [5]	Cotinine
Long-term Stability	476 days in polypropylene tubes at -20 C
Short-term Stability	25 hours in polypropylene tubes at ambient temperature under white light
Cumulative Short-term Stability	57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
Freeze-thaw Stability	6 freeze (-20 C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
Post-preparative Stability	229 hours in a polypropylene 96 well plate at 5 C
Processed Sample Integrity	79 hours in a polypropylene 96 well plate at 5 C
Sample Shipping Stability	18 days in polypropylene tubes at -80 C

Stability Summary [5]	Nicotine- <i>N</i> -Glucuronide, Cotinine- <i>N</i> -Glucuronide, <i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Glucuronide
Long-term Stability	476 days in polypropylene tubes at -20 C
Short-term Stability	25 hours in polypropylene tubes at ambient temperature under white light
Cumulative Short-term Stability	57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
Freeze-thaw Stability	6 freeze (-20 C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
Post-preparative Stability	302 hours in a polypropylene 96 well plate at 5 C
Processed Sample Integrity	185 hours in a polypropylene 96 well plate at 5 C
Sample Shipping Stability	18 days in polypropylene tubes at -80 C

#### 2.6.4. Sample Summary

The Sponsor's protocol specifies 120 subjects (80 in the THS 2.2 arm and 40 in the CC arm) with 7 sampling times for the 24-hour urine collections [3]. In study AA99071, a single subject discontinued from the clinical phase after randomization. The samples from this subject were analyzed and the results reported. Additional information regarding the subject discontinuance is provided in Section 8.4.

	No. of Samples
Specified in protocol/received	840/844
Duplicates received	843
Total number of study samples analyzed	844



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Following analysis, the study samples were kept frozen at -20°C. After submission of the final bioanalytical report the study samples will be further stored under the same conditions for up to 1 month on-site. Then, upon agreement with the Sponsor, the study samples will be destroyed after the completion of the clinical study report and Sponsor notification.

### 3. SAMPLE ANALYSIS

#### 3.1. Analytical Method

The determination of nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide in human urine samples was carried out over a calibration range of 50.0 ng/mL to 5,000 ng/mL (nicotine, cotinine, *trans*-3'-hydroxycotinine, and nicotine-*N*-glucuronide), and 200 ng/mL to 20,000 ng/mL (cotinine-*N*-glucuronide and *trans*-3'-hydroxycotinine-*O*-glucuronide). The analytical procedure was performed at Celerion, Lincoln, Nebraska and is documented in the Method Validation Report for Celerion Study ZZ33881-04 [5]. The analytical method is documented in BAM SOP ZZ33881-04 [6]. See [Attachment 7](#).

An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000™ triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis ( $1/\text{concentration}^2$ ) of peak area ratios of the analyte and internal standard.

Though listed as a standard, the control blank sample with internal standard (Standard A) was not used to plot the calibration curve.

#### 3.2. Acceptance Criteria

##### 3.2.1. Analytical Run Acceptance Criteria

An analytical run is acceptable if all of the following criteria are met:

- at least 75% of the non-zero calibration standards were within  $\pm 15.0\%$  ( $\pm 20.0\%$  for the lower limit of quantification (LLOQ) calibration standard) of their nominal concentration,
- at least two-thirds of the QC samples and at least 50% at each concentration level were within  $\pm 15.0\%$  of their nominal concentration,
- at least 50% of the standard zero samples are free of interference at the retention time of the analyte(s) of interest,
- at least 50% of the blank samples are free of interference both at the retention time of the analyte(s) of interest and at the retention time of the IS,





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- at least two-thirds of all blank and standard zero samples fulfilled the above described interference criteria.

Interference at the retention time of the analyte of interest is defined as a response greater than 20% of the mean analyte response of the LLOQ calibration standard(s).

Interference at the retention time of the IS is defined as a response greater than 5% of the mean IS response of the LLOQ calibration standard(s).

Individual data of QC samples (including DQCs) that were out of their acceptance criteria are flagged appropriately in the study file and in the bioanalytical report. QCs will be excluded from statistics only for analytical reasons (see [Attachment 5](#)).

### 3.2.2. Acceptance Criteria for System Suitability Testing

The system suitability testing performed with each analytical run is designed to assess the sensitivity, reproducibility of response (absence of response drift based on interpolated concentrations), and carry-over.

- Sensitivity assessed at the start and end of each analytical run is performed by evaluating the signal-to-noise ratio (SNR) of extracted system suitability samples spiked at the lower limit of quantitation. The SNR must be greater than 5:1 unless otherwise specified in the method.
- System stability (reproducibility of response) is performed by replicate injections at the start (5) and the end (2) of the analytical run with pooled high concentration system suitability samples. The percent coefficient of variation (% CV) of the calculated concentration must be less than or equal to 6%. The mean of the calculated concentration of the last 2 replicates or middle replicates (if applicable) of high concentration system suitability samples must be within 15% difference of the mean of the calculated concentration of the first 5 high concentration system suitability samples.
- The carryover percentage is assessed at the beginning and end of each analytical run. This test is performed by injecting a blank (reconstitution solution) sample immediately after a high concentration system suitability sample. The area counts of the analyte in the blank injection are divided by the analyte area counts in the high concentration system suitability sample and the result is multiplied by 100.

$$\% \text{ carryover} = \left( \frac{\text{area (blank sample)}}{\text{area (high sys suit)}} \right) * 100$$

Analyte	Carryover criteria (needs to be less than)
All analytes	0.2%





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### 3.2.3. Acceptance Criteria for Sample Dilution

The accuracy of study sample dilution is verified by the DQC samples. At least 50% of the DQC samples must be within  $\pm 15.0\%$  of their nominal concentration for the respective dilution factor to be accepted.

### 3.2.4. Acceptance Criteria for ISR

The % difference was calculated for each pair of original and repeat analyses as follows:

$$\% \text{ difference} = 100 * \frac{|\text{repeat value} - \text{original value}|}{(\text{repeat value} + \text{original value}) / 2}$$

If the % difference was less than or equal to 20%, a pair of results was considered a passing match. Any pair with a % difference of more than 67% (indicating that the repeat value is either less than half or more than twice the original concentration) was considered an event and was investigated. The analytical method will be considered reproducible if at least 67% of the result pairs match. If less than 67% of the pairs match, an event investigation was initiated.

## 4. RESULTS

Due to rounding procedures, recalculations using the results presented in this report may differ slightly from the reported statistics.

A summary of analytical runs performed is presented in [Table 1](#).

### 4.1. Quality Control and Dilution Quality Control Sample Performance

Between-analytical run precision and accuracy results for QC samples prepared at 150, 500, and 3750 ng/mL for nicotine, cotinine, *trans*-3'-hydroxycotinine, and nicotine-*N*-glucuronide and 600, 2000, and 15,000 ng/mL for cotinine-*N*-glucuronide and *trans*-3'-hydroxycotinine-*O*-glucuronide are summarized in [Table 2](#), [Table 3](#), [Table 4](#), [Table 5](#), [Table 6](#), and [Table 7](#), respectively. The accuracy of sample dilution was verified by the performance of dilution QC samples. Results for dilution QC samples are summarized in [Table 2](#), [Table 3](#), [Table 4](#), [Table 5](#), [Table 6](#), and [Table 7](#) for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively.

### 4.2. Calibration Standard Performance

Back-calculated calibration curve standard concentrations are provided in [Table 8](#), [Table 9](#), [Table 10](#), [Table 11](#), [Table 12](#), and [Table 13](#) for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively.



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#### 4.3. Standard Curve Parameters

Standard curve parameters from 15, 14, 16, 15, 14, and 14 successful analytical runs are provided in [Table 14](#), [Table 15](#), [Table 16](#), [Table 17](#), [Table 18](#), and [Table 19](#) for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively. A representative calibration curve is illustrated in [Figure 1](#), [Figure 2](#), [Figure 3](#), [Figure 4](#), [Figure 5](#), and [Figure 6](#) for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively.

#### 4.4. Study Sample Concentrations

Study sample concentrations are provided in [Table 20](#), [Table 21](#), [Table 22](#), [Table 23](#), [Table 24](#), [Table 25](#) for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively. The column "Split" refers to the "for analysis" or "back-up" sample collected.

Study samples, if any, with no significant peak at the mass transition and retention time of nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide, respectively, or with peak area ratios below that of the LLOQ standard, are reported as being below the limit of quantitation (BLQ).

#### 4.5. Reassays

##### 4.5.1. Reassays for Analytical Reasons

Study samples needing re-analysis according to [section 3.2.1](#) for *trans*-3'-hydroxycotinine and nicotine-*N*-glucuronide are identified in [Table 26](#) and [Table 27](#), respectively.

##### 4.5.2. Reassays for Non-analytical Reasons (Value Requiring Confirmation, VRC)

There were no study samples that were reassayed due to non-analytical reasons.

##### 4.5.3. Sponsor Selected Reassays

There were no Sponsor selected reassays.

##### 4.5.4. Incurred Sample Reproducibility

The method for the determination of nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide was considered reproducible, 98.9% out of 93 repeat analyses for nicotine, 97.8% out of 93 repeat analyses for cotinine, 97.8% out of 93 repeat analyses for *trans*-3'-hydroxycotinine, 98.9% out of 93 repeat analyses for nicotine-*N*-glucuronide, 98.9% out of 93 repeat analyses for cotinine-*N*-glucuronide, 96.8% out of 93 repeat analyses for *trans*-3'-hydroxycotinine-*O*-glucuronide met acceptance criteria as defined in [section 3.2.4](#). Results are presented in [Table 28](#), [Table 29](#), [Table 30](#), [Table 31](#), [Table 32](#), and [Table 33](#).





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## 5. CHROMATOGRAMS

Representative chromatograms are provided in [Attachment 8](#).

## 6. DEVIATIONS

**6.1.** Deviation DEV-LNK-13-0567 from LNK SOP.0050 V1, section 1.6, occurred in which a solution prep was used after the two week expiration period determined by the guidelines in the SOP. The solution prep (RSP/LNK/13-008496) was for 125 mM ammonium acetate which is used in Step 5 of the Extraction Procedure (Section 7) of ZZ3381-03 BAM SOP- v2 Aug 2012. The reagent is added after the ISTD is added prior to the liquid-liquid extraction. The purpose of the reagent in the extraction procedure is to buffer the urine as some lots of urine are saltier than others and to ensure that recovery is similar from lot to lot. If the buffering capacity of an expired prep of 125 mM ammonium acetate was inadequate there would have been increased variability in the ISTD area counts of the clinical samples on the analytical runs in question. It appears that the buffering capacity was sufficient based on the reproducibility of the internal standard area counts. This solution was used past its expiration due to an error in the solution preparation method in Labnotes. The Labnotes method was inadvertently approved using a 2 month expiration instead of a 2 week expiration. There appears to be no impact as the chromatography was reviewed from analytical runs which used RSP/LNK/13-008496 and a new prep of the same reagent and was found to be similar.

**6.2.** Deviation DEV-LNK-13-0598 from LNK SOP.0012 V3, section 4, in which samples for shipments 5, 6, 7, 10, and 11 were not counted within 3 working days of receipt. There was no impact as the samples were received frozen and in good order and were counted at the time of sample check-in into the Watson LIMS system.

## 7. EVENTS

There were no unexpected observations or results during the conduct of the study regarded as events which required investigation.

## 8. ANALYTICAL NOTES

**8.1.** The following analytical run was not included in the data set.

<u>Run ID</u>	<u>Analyte</u>	<u>Reason for Non-inclusion</u>
17	Nicotine- <i>N</i> -Glucuronide, Cotinine- <i>N</i> -Glucuronide, and <i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Glucuronide	Analytical Run 17 was reassayed as Analytical Run 30 due to an analyst error.



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8.2. Analytical Runs 29 and 36 consisted of reassays for *trans*-3'-hydroxycotinine only. The analytical runs were not regressed for nicotine, cotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide. Analytical Run 31 consisted of reassays for nicotine and *trans*-3'-hydroxycotinine only. The analytical run was not regressed for cotinine, cotinine-*N*-glucuronide, nicotine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide. Analytical Run 37 consisted of reassays for nicotine-*N*-glucuronide only. The analytical run was not regressed for nicotine, cotinine, cotinine-*N*-glucuronide, *trans*-3'-hydroxycotinine, and *trans*-3'-hydroxycotinine-*O*-glucuronide.

8.3. When a sample was reassayed for only one compound and the reassay result for the other compound was not needed, the unneeded reassay result was deactivated as "Not Used" and was not reported.

8.4. During the course of analysis of study AA99077 (ZRHR-REXC-04-JP), it was determined that incomplete documentation of subject consent for further analysis of bioanalytical samples after subject discontinuation existed. A review of the possible impacted studies included ZRHR-REXC-03-EU (AA99071). One subject, 0083, discontinued from the clinical phase post-randomization. Consent for analysis was later confirmed by the Principal Investigator. The results from subject 0083 were included with the final deliverables for this study.

## 9. ARCHIVES

At a minimum the following records will be retained:

- Study Plan Bioanalysis (and all amendments, if applicable)
- Raw data
- Study related correspondence
- Bioanalytical report (and all amendments, if applicable)

These documents will be kept in the archives of Celerion for at least ten (10) years, taken from the date of Bioanalytical Principal Investigator's signature on the final bioanalytical report. After this time the Sponsor will be contacted to decide if the records should be retained for a further defined time at Celerion, returned to the Sponsor, or disposed of. Study data and documentation are archived at the Celerion Lincoln facility for 90 days, after which the records may be transferred to:

Iron Mountain  
1601 Leavenworth  
Omaha, Nebraska 68102





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## 10. CONCLUSION

In this bioanalytical study the concentration was determined in a total of 844 samples for nicotine, cotinine, *trans*-3'-hydroxycotinine, nicotine-*N*-glucuronide, cotinine-*N*-glucuronide, and *trans*-3'-hydroxycotinine-*O*-glucuronide in human urine samples collected in the Philip Morris International Research and Development clinical study ZRHR-REXC-03-EU using a validated LC-MS/MS method.

The overall performance of the LC-MS/MS method met acceptance criteria and the results obtained were of the required integrity and quality. These data can be used for further interpretation.

## 11. REFERENCES

- [1] Guidance for Industry – Bioanalytical Method Validation: US Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER), Center for Veterinary Medicine (CVM) May 2001
- [2] OECD Principles on Good Laboratory Practice (as revised in 1997), ENV/MC/CHEM(98)17, OECD Series on Principles of Good Laboratory Practice and Compliance Monitoring, No. 1, OECD Publishing, Paris, France (2003).
- [3] Protocol ZRHR-REXC-03-EU: "A Randomized, Controlled, Open-label, 3-Arm Parallel Group, Single-Center Study to Demonstrate Reductions in Exposure to Selected Smoke Constituents in Smoking, Healthy Subjects Switching to the Tobacco Heating System 2.2 (THS 2.2) or Smoking Abstinence, Compared to Continuing to Use Conventional Cigarettes, for 5 Days in Confinement"
- [4] Study Plan Bioanalysis: Determination of Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine Samples from "A Randomized, Controlled, Open-label, 3-Arm Parallel Group, Single-Center Study to Demonstrate Reductions in Exposure to Selected Smoke Constituents in Smoking, Healthy Subjects Switching to the Tobacco Heating System 2.2 (THS 2.2) or Smoking Abstinence, Compared to Continuing to Use Conventional Cigarettes, for 5 Days in Confinement" by LC-MS/MS, Celerion Study AA99071-06 and AA99071-13
- [5] Validation of an LC-MS/MS Method for the Determination of Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine, Celerion Study ZZ33881-04
- [6] Bioanalytical Method SOP for the Determination of Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine, Celerion Study ZZ33881-04



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**RESULT TABLES**

Table 1 Summary of Analytical Runs Performed

Analyte Name	Run ID	Regression Status	Extraction Date	Assay Date	Description	Comment
Nicotine	2	Accepted	01-Nov-2013	02-Nov-2013	SUBS 0001-0022 PD 1 AGLYCONES	OK
Nicotine	4	Accepted	01-Nov-2013	03-Nov-2013	SUB 0023-0038 PD 1 AGLYCONES	OK
Nicotine	6	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 AGLYCONES	OK
Nicotine	8	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0067-0088 PD 1 AGLYCONES	OK
Nicotine	10	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0090-0118 PD 1 AGLYCONES	OK
Nicotine	12	Accepted	04-Nov-2013	07-Nov-2013	SUBS 0121-0140 PD 1 AGLYCONES	OK
Nicotine	14	Accepted	05-Nov-2013	06-Nov-2013	SUBS 0147-0162 PD 1 AGLYCONES	OK
Nicotine	16	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 AGLYCONES	OK
Nicotine	18	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0192-0206 PD 1 AGLYCONES	OK
Nicotine	20	Accepted	05-Nov-2013	08-Nov-2013	SUBS 0210-0234 PD 1 AGLYCONES	OK
Nicotine	22	Accepted	06-Nov-2013	07-Nov-2013	SUBS 0241-0277 PD 1 AGLYCONES	OK
Nicotine	24	Accepted	08-Nov-2013	08-Nov-2013	SUBS 0278-0296 PD 1 AGLYCONES	OK
Nicotine	26	Accepted	07-Nov-2013	08-Nov-2013	SUBS 0298-0318 PD 1 AGLYCONES	OK
Nicotine	28	Accepted	08-Nov-2013	09-Nov-2013	SUBS 0320-0328 PD 1 AGLYCONES + REASSAYS	OK
Nicotine	31	Accepted	19-Nov-2013	19-Nov-2013	REASSAYS AGLYCONES (NIC&THC ONLY)	OK
Nicotine	32	Accepted	20-Nov-2013	20-Nov-2013	ISRs AGLYCONES	OK
Nicotine	34	Accepted	20-Nov-2013	21-Nov-2013	ISRs AGLYCONES	OK
Cotinine	2	Accepted	01-Nov-2013	02-Nov-2013	SUBS 0001-0022 PD 1 AGLYCONES	OK
Cotinine	4	Accepted	01-Nov-2013	03-Nov-2013	SUB 0023-0038 PD 1 AGLYCONES	OK
Cotinine	6	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 AGLYCONES	OK
Cotinine	8	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0067-0088 PD 1 AGLYCONES	OK
Cotinine	10	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0090-0118 PD 1 AGLYCONES	OK
Cotinine	12	Accepted	04-Nov-2013	07-Nov-2013	SUBS 0121-0140 PD 1 AGLYCONES	OK
Cotinine	14	Accepted	05-Nov-2013	06-Nov-2013	SUBS 0147-0162 PD 1 AGLYCONES	OK





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Analyte Name	Run ID	Regression Status	Extraction Date	Assay Date	Description	Comment
Cotinine	16	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 AGLYCONES	OK
Cotinine	18	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0192-0206 PD 1 AGLYCONES	OK
Cotinine	20	Accepted	05-Nov-2013	08-Nov-2013	SUBS 0210-0234 PD 1 AGLYCONES	OK
Cotinine	22	Accepted	06-Nov-2013	07-Nov-2013	SUBS 0241-0277 PD 1 AGLYCONES	OK
Cotinine	24	Accepted	08-Nov-2013	08-Nov-2013	SUBS 0278-0296 PD 1 AGLYCONES	OK
Cotinine	26	Accepted	07-Nov-2013	08-Nov-2013	SUBS 0298-0318 PD 1 AGLYCONES	OK
Cotinine	28	Accepted	08-Nov-2013	09-Nov-2013	SUBS 0320-0328 PD 1 AGLYCONES + REASSAYS	OK
Cotinine	32	Accepted	20-Nov-2013	20-Nov-2013	ISR <sub>s</sub> AGLYCONES	OK
Cotinine	34	Accepted	20-Nov-2013	21-Nov-2013	ISR <sub>s</sub> AGLYCONES	OK
THC	2	Accepted	01-Nov-2013	02-Nov-2013	SUBS 0001-0022 PD 1 AGLYCONES	OK
THC	4	Accepted	01-Nov-2013	03-Nov-2013	SUB 0023-0038 PD 1 AGLYCONES	OK
THC	6	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 AGLYCONES	OK
THC	8	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0067-0088 PD 1 AGLYCONES	OK
THC	10	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0090-0118 PD 1 AGLYCONES	OK
THC	12	Accepted	04-Nov-2013	07-Nov-2013	SUBS 0121-0140 PD 1 AGLYCONES	OK
THC	14	Accepted	05-Nov-2013	06-Nov-2013	SUBS 0147-0162 PD 1 AGLYCONES	OK
THC	16	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 AGLYCONES	OK
THC	18	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0192-0206 PD 1 AGLYCONES	OK
THC	20	Accepted	05-Nov-2013	08-Nov-2013	SUBS 0210-0234 PD 1 AGLYCONES	OK
THC	22	Accepted	06-Nov-2013	07-Nov-2013	SUBS 0241-0277 PD 1 AGLYCONES	OK
THC	24	Accepted	08-Nov-2013	08-Nov-2013	SUBS 0278-0296 PD 1 AGLYCONES	OK
THC	26	Accepted	07-Nov-2013	08-Nov-2013	SUBS 0298-0318 PD 1 AGLYCONES	OK
THC	28	Accepted	08-Nov-2013	09-Nov-2013	SUBS 0320-0328 PD 1 AGLYCONES + REASSAYS	OK
THC	29	Accepted	15-Nov-2013	18-Nov-2013	REASSAYS (THC only) AGLYCONES	OK
THC	31	Accepted	19-Nov-2013	19-Nov-2013	REASSAYS AGLYCONES (NIC&THC ONLY)	OK
THC	32	Accepted	20-Nov-2013	20-Nov-2013	ISR <sub>s</sub> AGLYCONES	OK
THC	34	Accepted	20-Nov-2013	21-Nov-2013	ISR <sub>s</sub> AGLYCONES	OK
THC	36	Accepted	25-Nov-2013	25-Nov-2013	REASSAYS AGLYCONES	OK



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Analyte Name	Run ID	Regression Status	Extraction Date	Assay Date	Description	Comment
Nicotine-N-Gluc	1	Accepted	01-Nov-2013	01-Nov-2013	SUBS 0001-0022 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	3	Accepted	01-Nov-2013	02-Nov-2013	SUB 0023-0038 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	5	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	7	Accepted	04-Nov-2013	04-Nov-2013	SUBS 0067-0088 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	9	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0090-0118 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	11	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0121-0140 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	13	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0147-0162 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	15	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	19	Accepted	05-Nov-2013	08-Nov-2013	SUBS 0210-0234 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	21	Accepted	06-Nov-2013	08-Nov-2013	SUBS 0241-0277 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	23	Accepted	08-Nov-2013	09-Nov-2013	SUB 0278-0296 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	25	Accepted	07-Nov-2013	10-Nov-2013	SUBS 0298-0318 PD 1 GLUCURONIDES	OK
Nicotine-N-Gluc	27	Accepted	08-Nov-2013	10-Nov-2013	SUBS 0320-0328 PD 1 GLUCURONIDES + REASSAYS	OK
Nicotine-N-Gluc	30	Accepted	12-Nov-2013	14-Nov-2013	RR FAILED BATCH 17 (GLUCURONIDES)	OK
Nicotine-N-Gluc	33	Accepted	20-Nov-2013	20-Nov-2013	ISRs GLUCURONIDES	OK
Nicotine-N-Gluc	35	Accepted	20-Nov-2013	21-Nov-2013	ISRs GLUCURONIDES	OK
Nicotine-N-Gluc	37	Accepted	25-Nov-2013	25-Nov-2013	REASSAYS GLUCURONIDES	OK
Cotinine-N-Gluc	1	Accepted	01-Nov-2013	01-Nov-2013	SUBS 0001-0022 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	3	Accepted	01-Nov-2013	02-Nov-2013	SUB 0023-0038 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	5	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	7	Accepted	04-Nov-2013	04-Nov-2013	SUBS 0067-0088 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	9	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0090-0118 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	11	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0121-0140 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	13	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0147-0162 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	15	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	19	Accepted	05-Nov-2013	08-Nov-2013	SUBS 0210-0234 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	21	Accepted	06-Nov-2013	08-Nov-2013	SUBS 0241-0277 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	23	Accepted	08-Nov-2013	09-Nov-2013	SUB 0278-0296 PD 1 GLUCURONIDES	OK



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Analyte Name	Run ID	Regression Status	Extraction Date	Assay Date	Description	Comment
Cotinine-N-Gluc	25	Accepted	07-Nov-2013	10-Nov-2013	SUBS 0298-0318 PD 1 GLUCURONIDES	OK
Cotinine-N-Gluc	27	Accepted	08-Nov-2013	10-Nov-2013	SUBS 0320-0328 PD 1 GLUCURONIDES + REASSAYS	OK
Cotinine-N-Gluc	30	Accepted	12-Nov-2013	14-Nov-2013	RR FAILED BATCH 17 (GLUCURONIDES)	OK
Cotinine-N-Gluc	33	Accepted	20-Nov-2013	20-Nov-2013	ISRs GLUCURONIDES	OK
Cotinine-N-Gluc	35	Accepted	20-Nov-2013	21-Nov-2013	ISRs GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	1	Accepted	01-Nov-2013	01-Nov-2013	SUBS 0001-0022 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	3	Accepted	01-Nov-2013	02-Nov-2013	SUB 0023-0038 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	5	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0039-0066 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	7	Accepted	04-Nov-2013	04-Nov-2013	SUBS 0067-0088 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	9	Accepted	04-Nov-2013	05-Nov-2013	SUBS 0090-0118 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	11	Accepted	04-Nov-2013	06-Nov-2013	SUBS 0121-0140 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	13	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0147-0162 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	15	Accepted	05-Nov-2013	07-Nov-2013	SUBS 0167-0191 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	19	Accepted	05-Nov-2013	08-Nov-2013	SUB 0278-0296 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	21	Accepted	06-Nov-2013	08-Nov-2013	SUBS 0298-0318 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	23	Accepted	08-Nov-2013	09-Nov-2013	SUB 0278-0296 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	25	Accepted	07-Nov-2013	10-Nov-2013	SUBS 0298-0318 PD 1 GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	27	Accepted	08-Nov-2013	10-Nov-2013	SUBS 0320-0328 PD 1 GLUCURONIDES + REASSAYS	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	30	Accepted	12-Nov-2013	14-Nov-2013	RR FAILED BATCH 17 (GLUCURONIDES)	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	33	Accepted	20-Nov-2013	20-Nov-2013	ISRs GLUCURONIDES	OK
<i>trans</i> -3'-Hydroxycotinine-O-Gluc	35	Accepted	20-Nov-2013	21-Nov-2013	ISRs GLUCURONIDES	OK

"Regression Status" reflects the status of the run with respect to run acceptance criteria





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 2 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for Nicotine

Assay Date	Run ID	QC A 150 ng/mL	QC B 500 ng/mL	QC C 3750 ng/mL	QC D DF10 10000 ng/mL
02-Nov-2013	2	151	540	3730	
		140	511	3690	
03-Nov-2013	4	142	514	3770	
		157	494	3660	
05-Nov-2013	6	159	533	3970	
		153	509	3660	
06-Nov-2013	8	148	526	3810	
		145	502	3580	
06-Nov-2013	10	143	509	3840	
		149	491	3500	
06-Nov-2013	14	150	494	3790	
		157	530	3910	
07-Nov-2013	12	151	523	3710	
		146	538	3680	
07-Nov-2013	16	153	500	3670	
		154	499	3830	
07-Nov-2013	18	157	522	3880	
		159	549	3770	
07-Nov-2013	22	153	486	3750	
		151	535	3820	
08-Nov-2013	20	128	511	3790	
		145	511	3670	
08-Nov-2013	24	154	523	3630	
		155	517	3820	
08-Nov-2013	26	147	514	3660	
		150	487	3390	
09-Nov-2013	28	146	531	3810	9900
		151	506	3710	9700
					10200
19-Nov-2013	31	156	518	3670	9970
		154	534	3760	9730
					9810
Mean		150	515	3730	9890
S.D.		6.54	16.7	118	185
%CV		4.4	3.2	3.2	1.9
%Theoretical		100.0	103.0	99.5	98.9
%Bias		0.0	3.0	-0.5	-1.1
n		30	30	30	6





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 3 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for Cotinine

Assay Date	Run ID	QC A 150 ng/mL	QC B 500 ng/mL	QC C 3750 ng/mL	QC D DF10 10000 ng/mL
02-Nov-2013	2	152	516	3710	
		158	529	3970	
03-Nov-2013	4	154	502	3520	
		140	567	3600	
05-Nov-2013	6	153	528	3720	
		152	524	3880	
06-Nov-2013	8	150	506	3870	
		147	508	3630	
06-Nov-2013	10	154	507	3810	
		159	489	3800	
06-Nov-2013	14	163	515	3610	
		149	525	4030	
07-Nov-2013	12	161	549	3770	
		153	518	3900	
07-Nov-2013	16	157	528	3740	
		150	534	3720	
07-Nov-2013	18	152	516	3800	
		151	515	3900	
07-Nov-2013	22	154	509	3840	
		163	509	3690	
08-Nov-2013	20	147	497	3750	
		138	478	3640	
08-Nov-2013	24	159	532	3740	
		163	505	3930	
08-Nov-2013	26	160	513	3830	
		156	500	3590	
09-Nov-2013	28	158	512	3800	10400
		152	495	3790	10100
					10100
Mean		154	515	3770	10200
S.D.		6.25	18.0	123	173
%CV		4.1	3.5	3.3	1.7
%Theoretical		102.7	103.0	100.5	102.0
%Bias		2.7	3.0	0.5	2.0
n		28	28	28	3



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 4 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for *trans*-3'-Hydroxycotinine

Assay Date	Run ID	QC A 150 ng/mL	QC B 500 ng/mL	QC C 3750 ng/mL	QC D DF10 10000 ng/mL
02-Nov-2013	2	152	520	3790	
		161	492	3890	
03-Nov-2013	4	148	506	3700	
		159	540	3780	
05-Nov-2013	6	148	513	3700	
		152	496	3790	
06-Nov-2013	8	152	521	3950	
		153	529	3780	
06-Nov-2013	10	157	513	4060	
		162	509	3790	
06-Nov-2013	14	147	509	3850	
		140	497	3700	
07-Nov-2013	12	147	510	3860	
		152	521	3740	
07-Nov-2013	16	164	506	3940	
		157	510	3870	
07-Nov-2013	18	168	531	4100	
		158	508	3960	
07-Nov-2013	22	148	508	3700	
		144	540	3890	
08-Nov-2013	20	131	532	3920	
		144	523	3910	
08-Nov-2013	24	151	517	3950	
		160	518	3820	
08-Nov-2013	26	154	497	3750	
		155	511	4020	
09-Nov-2013	28	162	524	3770	10200
		158	499	3900	10400
					10300
18-Nov-2013	29	155	498	3900	10500
		158	501	3900	10600
					10400
19-Nov-2013	31	153	505	~4410	10100
		155	532	3790	10100
					10800
Mean		153	514	3870	10400
S.D.		7.50	13.0	143	233



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	QC A 150 ng/mL	QC B 500 ng/mL	QC C 3750 ng/mL	QC D DF10 10000 ng/mL
%CV		4.9	2.5	3.7	2.2
%Theoretical		102.0	102.8	103.2	104.0
%Bias		2.0	2.8	3.2	4.0
n		32	32	32	9

~ > 15%Bias



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 5 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for Nicotine-*N*-Glucuronide

Assay Date	Run ID	QC A 150 ng/mL	QC B 500 ng/mL	QC C 3750 ng/mL	QC C DF2 3750 ng/mL	QC D DF10 10000 ng/mL
01-Nov-2013	1	149	486	3710		
		152	492	3680		
02-Nov-2013	3	165	522	3830		
		158	507	3910		
04-Nov-2013	7	149	492	3620		
		157	495	3620		
05-Nov-2013	5	161	495	3790		
		147	507	3730		
05-Nov-2013	9	155	522	3780		
		160	493	3970		
06-Nov-2013	11	154	486	3720		
		129	471	3880		
07-Nov-2013	13	155	478	3820		
		136	452	3730		
07-Nov-2013	15	156	504	3720		
		156	551	3750		
08-Nov-2013	19	134	557	3970		
		142	527	3860		
08-Nov-2013	21	146	513	3760		
		145	475	3620		
09-Nov-2013	23	148	452	3930		
		135	492	3550		
10-Nov-2013	25	168	507	4060		
		162	499	3700		
10-Nov-2013	27	150	475	3230		10200
		141	484	3480		9800
						9940
14-Nov-2013	30	148	448	3580		
		142	469	3560		
25-Nov-2013	37	148	466	3770	3730	
		151	512	3730	3750	
					3900	
Mean		150	494	3740	3790	9980
S.D.		9.40	26.3	166	92.9	203
%CV		6.3	5.3	4.4	2.5	2.0
%Theoretical		100.0	98.8	99.7	101.1	99.8
%Bias		0.0	-1.2	-0.3	1.1	-0.2
n		30	30	30	3	3





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 6 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for Cotinine-*N*-Glucuronide

Assay Date	Run ID	QC A 600 ng/mL	QC B 2000 ng/mL	QC C 15000 ng/mL	QC D DF10 40000 ng/mL
01-Nov-2013	1	594	2080	15000	
		593	1920	15400	
02-Nov-2013	3	605	1980	14700	
		567	1970	14900	
04-Nov-2013	7	591	2020	14400	
		597	1980	14600	
05-Nov-2013	5	578	1980	14300	
		595	2020	14400	
05-Nov-2013	9	570	1980	14900	
		564	1920	14600	
06-Nov-2013	11	575	2010	14900	
		605	2030	14800	
07-Nov-2013	13	556	1960	14300	
		576	1980	14600	
07-Nov-2013	15	620	1970	14700	
		591	2020	15400	
08-Nov-2013	19	576	2080	14700	
		560	2000	14800	
08-Nov-2013	21	545	1980	15300	
		548	1980	15700	
09-Nov-2013	23	621	1950	14500	
		615	1930	12900	
10-Nov-2013	25	563	2070	14100	
		573	2060	15100	
10-Nov-2013	27	585	2040	14600	38600
		585	2030	14800	40800
					42400
14-Nov-2013	30	574	1900	15300	
		606	2020	14300	
Mean		583	2000	14700	40600
S.D.		20.6	48.0	525	1910
%CV		3.5	2.4	3.6	4.7
%Theoretical		97.2	100.0	98.0	101.5
%Bias		-2.8	0.0	-2.0	1.5
n		28	28	28	3



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 7 Quality Control and Dilution Quality Control Sample Data (Between-Analytical Run Precision and Accuracy) for *trans*-3'-Hydroxycotinine-*O*-Glucuronide

Assay Date	Run ID	QC A 600 ng/mL	QC B 2000 ng/mL	QC C 15000 ng/mL	QC D DF10 40000 ng/mL
01-Nov-2013	1	586	2090	14900	
		574	2030	14900	
02-Nov-2013	3	576	2060	14600	
		579	2010	14400	
04-Nov-2013	7	597	2070	14900	
		613	2090	14500	
05-Nov-2013	5	585	2100	14700	
		567	2030	15000	
05-Nov-2013	9	615	1980	14600	
		604	1930	14000	
06-Nov-2013	11	578	2100	14800	
		568	2020	14200	
07-Nov-2013	13	538	2000	14700	
		542	1940	14300	
07-Nov-2013	15	559	2210	15300	
		597	2150	15600	
08-Nov-2013	19	523	1980	15000	
		~476	1920	16100	
08-Nov-2013	21	629	2140	15100	
		636	2030	15900	
09-Nov-2013	23	625	2140	15800	
		623	2160	15700	
10-Nov-2013	25	584	2100	14700	
		580	1990	14500	
10-Nov-2013	27	582	1970	14100	38400
		646	1930	15300	35000
					39300
14-Nov-2013	30	607	1970	15700	
		620	2110	15000	
Mean		586	2040	14900	37600
S.D.		36.9	78.9	563	2270
%CV		6.3	3.9	3.8	6.0
%Theoretical		97.7	102.0	99.3	94.0
%Bias		-2.3	2.0	-0.7	-6.0
n		28	28	28	3

~ > 15%Bias



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 8 Back-calculated Calibration Standard Concentrations for Nicotine

Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
02-Nov-2013	2	50.5	98.5	198	386	845	1550	4000	4790
03 Nov 2013	4	49.9	103	192	360	890	1430	4000	5210
05 Nov 2013	6	49.2	103	204	381	877	1440	3990	4840
06 Nov 2013	8	49.3	103	196	398	849	1500	4000	4740
06 Nov 2013	10	51.2	95.5	192	424	825	1460	4090	4860
06 Nov 2013	14	50.8	96.4	203	384	850	1490	3870	5090
07 Nov 2013	12	50.8	94.5	207	401	850	1490	3940	4790
07 Nov 2013	16	50.7	95.9	201	404	844	1470	3950	4920
07 Nov 2013	18	50.6	99.1	193	385	891	1460	3970	4940
07 Nov 2013	22	48.8	99.3	215	410	877	1570	3540	4520
08 Nov 2013	20	49.3	102	202	405	829	1450	4070	4780
08 Nov 2013	24	50.0	101	194	400	868	1450	4050	4780
08 Nov 2013	26	50.5	93.9	218	390	*957	1590	3840	4850





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
09-Nov-2013	28	50 0	100	199	388	853	1460	4020	4940
19-Nov-2013	31	50 4	98 4	200	386	863	1490	4110	4710
Mean		50 1	98 9	201	393	858	1490	3960	4850
S D		0 709	3 13	7 79	15 0	20 5	48 1	138	162
%CV		1 4	3 2	3 9	3 8	2 4	3 2	3 5	3 3
%Bias		0 2	-1 1	0 5	-1 8	7 3	-0 7	-1 0	-3 0
n		15	15	15	15	14	15	15	15

Reason Deactivated

\* Rejected



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 9 Back-calculated Calibration Standard Concentrations for Cotinine

Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
02-Nov-2013	2	50.1	97.9	205	396	839	1570	3720	4900
03-Nov-2013	4	49.7	102	200	388	807	1540	3920	5010
05-Nov-2013	6	50.1	101	197	396	786	1510	4040	5070
06-Nov-2013	8	50.2	103	190	382	776	1530	3970	5370
06-Nov-2013	10	49.3	97.4	220	406	808	1520	3810	4750
06-Nov-2013	14	50.4	99.8	198	379	804	1550	4080	4980
07-Nov-2013	12	50.3	97.6	203	396	859	1470	4040	4760
07-Nov-2013	16	50.5	98.6	198	402	775	1540	3920	5180
07-Nov-2013	18	48.1	108	198	391	816	1540	3950	4790
07-Nov-2013	22	50.2	97.9	204	399	817	1540	4070	4670
08-Nov-2013	20	50.5	98.1	201	396	779	1550	3990	5040
08-Nov-2013	24	49.3	101	203	419	791	1470	4000	4850
08-Nov-2013	26	48.9	105	194	414	806	1560	3980	4630



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
09-Nov-2013	28	49.3	102	200	408	831	1510	3890	4790
Mean		49.8	101	201	398	807	1530	3960	4910
S.D.		0.709	3.15	6.84	11.3	24.7	30.1	100	207
%CV		1.4	3.1	3.4	2.8	3.1	2.0	2.5	4.2
%Bias		-0.4	1.0	0.5	-0.5	0.9	2.0	-1.0	-1.8
n		14	14	14	14	14	14	14	14





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 10 Back-calculated Calibration Standard Concentrations for *trans*-3'-Hydroxycotinine

Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
02-Nov-2013	2	49.8	99.1	209	404	745	1520	3980	5100
03-Nov-2013	4	50.0	101	198	395	793	1520	4000	5070
05-Nov-2013	6	49.4	100	210	393	798	1500	3960	4940
06-Nov-2013	8	50.5	98.4	197	402	794	1550	4000	4930
06-Nov-2013	10	49.1	103	209	392	759	1460	4230	4950
06-Nov-2013	14	50.3	96.6	213	389	758	1520	4140	4960
07-Nov-2013	12	49.5	101	205	398	799	1520	4030	4810
07-Nov-2013	16	49.6	98.2	209	431	751	1530	3880	4880
07-Nov-2013	18	49.9	99.8	204	398	759	1530	4050	5040
07-Nov-2013	22	50.9	96.8	197	398	829	1540	3880	5010
08-Nov-2013	20	49.7	103	194	389	793	1570	3980	4980
08-Nov-2013	24	49.5	103	197	405	753	1510	3980	5200
08-Nov-2013	26	50.4	97.7	200	414	781	1520	4000	4970



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
09-Nov-2013	28	50.1	99.8	198	404	801	1490	3990	5030
18-Nov-2013	29	49.8	100	202	407	790	1430	3950	5220
19-Nov-2013	31	50.2	99.0	200	405	794	1520	3990	4960
Mean		49.9	99.8	203	402	781	1510	4000	5000
S.D.		0.467	2.05	5.88	10.5	23.8	33.3	85.7	107
%CV		0.9	2.1	2.9	2.6	3.0	2.2	2.1	2.1
%Bias		-0.2	-0.2	1.5	0.5	-2.4	0.7	0.0	0.0
n		16	16	16	16	16	16	16	16



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 11 Back-calculated Calibration Standard Concentrations for Nicotine-*N*-Glucuronide

Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
01-Nov-2013	1	49.2	102	208	395	789	1460	4090	4950
02-Nov-2013	3	49.6	101	198	425	783	1430	4060	4980
04-Nov-2013	7	50.7	99.0	192	403	780	1500	4070	5170
05-Nov-2013	5	49.5	100	207	409	775	1500	4000	4910
05-Nov-2013	9	50.2	99.2	199	391	847	1500	3880	5000
06-Nov-2013	11	50.2	93.1	221	409	801	1560	3760	4780
07-Nov-2013	13	50.2	96.3	213	394	765	1660	3770	4880
07-Nov-2013	15	51.1	98.6	191	376	848	1520	3800	5390
08-Nov-2013	19	49.2	99.2	217	404	781	1540	3630	5110
08-Nov-2013	21	50.8	94.9	205	422	729	1550	4000	5060
09-Nov-2013	23	49.7	103	193	403	773	1430	*4790	5390
10-Nov-2013	25	49.9	102	191	400	843	1500	4000	4870
10-Nov-2013	27	48.1	108	194	415	788	1510	3810	4980





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 50.0 ng/mL	STD C 100 ng/mL	STD D 200 ng/mL	STD E 400 ng/mL	STD F 800 ng/mL	STD G 1500 ng/mL	STD H 4000 ng/mL	STD I 5000 ng/mL
14-Nov-2013	30	49.8	100	199	414	779	1500	3890	5120
25-Nov-2013	37	50.6	96.3	204	408	782	1420	4070	5220
Mean		49.9	99.5	202	405	791	1510	3920	5050
S.D.		0.764	3.62	9.64	12.5	32.5	60.5	145	181
%CV		1.5	3.6	4.8	3.1	4.1	4.0	3.7	3.6
%Bias		-0.2	-0.5	1.0	1.3	-1.1	0.7	-2.0	1.0
n		15	15	15	15	15	15	14	15

Reason Deactivated

\* Rejected



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 12 Back-calculated Calibration Standard Concentrations for Cotinine-*N*-Glucuronide

Assay Date	Run ID	STD B 200 ng/mL	STD C 400 ng/mL	STD D 800 ng/mL	STD E 1600 ng/mL	STD F 3200 ng/mL	STD G 6000 ng/mL	STD H 16000 ng/mL	STD I 20000 ng/mL
01-Nov-2013	1	200	402	793	1550	3450	5840	16000	19600
02-Nov-2013	3	200	400	803	1620	3190	5940	16200	19800
04-Nov-2013	7	199	406	791	1570	3240	6060	15900	20000
05-Nov-2013	5	199	405	794	1600	3220	6040	16200	19600
05-Nov-2013	9	208	360	818	1640	3280	6020	16300	19300
06-Nov-2013	11	197	410	785	1650	3250	6140	16000	18600
07-Nov-2013	13	198	419	774	1520	3170	6150	16700	19700
07-Nov-2013	15	203	387	828	1520	3210	6230	16800	18900
08-Nov-2013	19	201	396	787	1560	3490	6050	16000	18900
08-Nov-2013	21	212	370	724	1580	3320	6310	16600	19900
09-Nov-2013	23	203	391	805	1540	3310	5170	17700	20700
10-Nov-2013	25	206	397	738	1500	3200	6210	17300	20000
10-Nov-2013	27	205	379	790	1630	3350	6100	15900	19300



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 200 ng/mL	STD C 400 ng/mL	STD D 800 ng/mL	STD E 1600 ng/mL	STD F 3200 ng/mL	STD G 6000 ng/mL	STD H 16000 ng/mL	STD I 20000 ng/mL
14-Nov-2013	30	201	386	849	1530	3430	5930	15800	19400
Mean		202	393	791	1570	3290	6010	16400	19600
S D		4.21	16.0	32.2	49.0	103	274	570	543
%CV		2.1	4.1	4.1	3.1	3.1	4.6	3.5	2.8
%Bias		1.0	-1.8	-1.1	-1.9	2.8	0.2	2.5	-2.0
n		14	14	14	14	14	14	14	14





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 13 Back-calculated Calibration Standard Concentrations for *trans*-3'-Hydroxycotinine-*O*-Glucuronide

Assay Date	Run ID	STD B 200 ng/mL	STD C 400 ng/mL	STD D 800 ng/mL	STD E 1600 ng/mL	STD F 3200 ng/mL	STD G 6000 ng/mL	STD H 16000 ng/mL	STD I 20000 ng/mL
01-Nov-2013	1	197	410	805	1630	3200	5980	16000	19400
02-Nov-2013	3	195	418	801	1620	3240	5930	16100	19200
04-Nov-2013	7	204	384	792	1610	3270	5840	16600	19800
05-Nov-2013	5	200	399	789	1660	3290	6010	16300	18700
05-Nov-2013	9	196	416	795	1630	3060	6100	16400	19400
06-Nov-2013	11	199	402	815	1530	3290	6170	16000	19400
07-Nov-2013	13	207	395	699	1630	3190	6310	15900	21000
07-Nov-2013	15	198	400	830	1600	3150	6080	15900	19600
08-Nov-2013	19	205	370	821	1620	3360	6140	15900	18900
08-Nov-2013	21	190	422	873	1600	3060	6320	15100	19000
09-Nov-2013	23	203	393	762	1650	3250	5860	16300	20100
10-Nov-2013	25	205	386	788	1540	3270	5940	16600	20300
10-Nov-2013	27	192	424	835	1540	3320	5890	15800	19300



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Assay Date	Run ID	STD B 200 ng/mL	STD C 400 ng/mL	STD D 800 ng/mL	STD E 1600 ng/mL	STD F 3200 ng/mL	STD G 6000 ng/mL	STD H 16000 ng/mL	STD I 20000 ng/mL
14-Nov-2013	30	193	419	828	1650	3230	5800	15900	19000
Mean		199	403	802	1610	3230	6030	16100	19500
S D		5.36	16.2	40.0	42.5	88.8	166	384	621
%CV		2.7	4.0	5.0	2.6	2.7	2.8	2.4	3.2
%Bias		-0.5	0.8	0.3	0.6	0.9	0.5	0.6	-2.5
n		14	14	14	14	14	14	14	14



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 14 Standard Curve Parameters for Nicotine

Assay Date	Run ID	Slope	Intercept	R-Squared
02-Nov-2013	2	0.000307128915	0.000695095639	0.9984
03-Nov-2013	4	0.000308663488	0.000184281607	0.9942
05-Nov-2013	6	0.00248967175	-0.00221080410	0.9969
06-Nov-2013	8	0.00256022597	-0.00491802644	0.9984
06-Nov-2013	10	0.00437514146	-0.00724717466	0.9979
06-Nov-2013	14	0.00252448338	0.00139929165	0.9983
07-Nov-2013	12	0.00428646380	-0.0117332511	0.9980
07-Nov-2013	16	0.00258240503	-0.00199043939	0.9989
07-Nov-2013	18	0.00249938046	-0.0144364424	0.9967
07-Nov-2013	22	0.00415408050	-0.0102119748	0.9920
08-Nov-2013	20	0.00251548287	-0.00345887065	0.9989
08-Nov-2013	24	0.00239333634	-0.00329077809	0.9978
08-Nov-2013	26	0.00409980752	0.00106918497	0.9958
09-Nov-2013	28	0.00242043673	-0.000176046785	0.9987
19-Nov-2013	31	0.00394747703	-0.000955964179	0.9977
Mean		0.00276427902	-0.00381879458	0.9972
S.D.		0.00127307907	0.00496078036	0.0019
%CV		46.1	-129.9	0.2
n		15	15	15



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 15 Standard Curve Parameters for Cotinine

Assay Date	Run ID	Slope	Intercept	R-Squared
02-Nov-2013	2	0.000933425741	0.00272789432	0.9978
03-Nov-2013	4	0.000950065950	0.00325378296	0.9995
05-Nov-2013	6	0.00351058500	0.0167956377	0.9998
06-Nov-2013	8	0.00356932001	0.0120498111	0.9976
06-Nov-2013	10	0.00607319534	-0.0248359465	0.9968
06-Nov-2013	14	0.00373856809	0.000752118136	0.9991
07-Nov-2013	12	0.00576927517	0.0153471678	0.9982
07-Nov-2013	16	0.00367779938	0.0167823206	0.9993
07-Nov-2013	18	0.00375058619	-0.00294806973	0.9977
07-Nov-2013	22	0.00639619972	0.0174401754	0.9987
08-Nov-2013	20	0.00367520771	0.00655394749	0.9995
08-Nov-2013	24	0.00372819011	0.00631367736	0.9991
08-Nov-2013	26	0.00650464320	-0.00904147074	0.9976
09-Nov-2013	28	0.00386499631	-0.0117592527	0.9990
Mean		0.00401014699	0.00353084237	0.9986
S.D.		0.00173216170	0.0124685808	0.0009
%CV		43.2	353.1	0.1
n		14	14	14





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 16 Standard Curve Parameters for *trans*-3'-Hydroxycotinine

Assay Date	Run ID	Slope	Intercept	R-Squared
02-Nov-2013	2	0.00134578804	0.00758143258	0.9985
03-Nov-2013	4	0.00135321321	0.00591918611	0.9999
05-Nov-2013	6	0.00135211738	0.00443942362	0.9993
06-Nov-2013	8	0.00134648631	0.00579880747	0.9996
06-Nov-2013	10	0.00146820217	0.00753130250	0.9979
06-Nov-2013	14	0.00134947980	0.00666369224	0.9979
07-Nov-2013	12	0.00145142389	0.00671051867	0.9995
07-Nov-2013	16	0.00132805334	0.00128691864	0.9972
07-Nov-2013	18	0.00130489796	0.00538144768	0.9993
07-Nov-2013	22	0.00143569617	0.00721856398	0.9991
08-Nov-2013	20	0.00131415791	0.00957337329	0.9990
08-Nov-2013	24	0.00128347679	0.00731680655	0.9987
08-Nov-2013	26	0.00141030479	0.0133881712	0.9995
09-Nov-2013	28	0.00128009458	0.00552306304	0.9999
18-Nov-2013	29	0.00139282983	0.00797230810	0.9990
19-Nov-2013	31	0.00137156724	0.00865435869	0.9999
Mean		0.00136173684	0.00693496090	0.9990
S.D.		0.0000568579058	0.00256409695	0.0008
%CV		4.2	37.0	0.1
n		16	16	16



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 17 Standard Curve Parameters for Nicotine-*N*-Glucuronide

Assay Date	Run ID	Slope	Intercept	R-Squared
01-Nov-2013	1	0.0144954340	0.0244777945	0.9992
02-Nov-2013	3	0.0141183282	0.0457787798	0.9986
04-Nov-2013	7	0.0157027417	0.0149396255	0.9992
05-Nov-2013	5	0.0155437463	0.0356568086	0.9994
05-Nov-2013	9	0.0236920193	0.0929989538	0.9990
06-Nov-2013	11	0.0220160515	0.219355589	0.9953
07-Nov-2013	13	0.0230014261	0.0179486156	0.9955
07-Nov-2013	15	0.0224478572	-0.0258855010	0.9963
08-Nov-2013	19	0.0219420597	-0.0194696861	0.9965
08-Nov-2013	21	0.0215840534	-0.0313945724	0.9969
09-Nov-2013	23	0.0212502553	0.169163476	0.9972
10-Nov-2013	25	0.0206334796	-0.0712719276	0.9988
10-Nov-2013	27	0.0210822808	0.0114636171	0.9973
14-Nov-2013	30	0.0214334385	0.0446757362	0.9993
25-Nov-2013	37	0.0149220864	0.0440822143	0.9984
Mean		0.0195910172	0.0381679682	0.9978
S.D.		0.00349144368	0.0752266475	0.0014
%CV		17.8	197.1	0.1
n		15	15	15



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 18 Standard Curve Parameters for Cotinine-*N*-Glucuronide

Assay Date	Run ID	Slope	Intercept	R-Squared
01-Nov-2013	1	0.000283847755	0.00237817155	0.9984
02-Nov-2013	3	0.000284043940	0.00364385149	0.9999
04-Nov-2013	7	0.000288963306	0.000607368493	0.9998
05-Nov-2013	5	0.000289512169	0.000526753530	0.9998
05-Nov-2013	9	0.000418544624	0.00955550427	0.9971
06-Nov-2013	11	0.000457345799	-0.00527507233	0.9985
07-Nov-2013	13	0.000453856935	0.00651501090	0.9982
07-Nov-2013	15	0.000462146864	0.00160360856	0.9975
08-Nov-2013	19	0.000448624202	0.00393715548	0.9975
08-Nov-2013	21	0.000437306315	0.0193704743	0.9954
09-Nov-2013	23	0.000456278926	-0.00296587261	0.9931
10-Nov-2013	25	0.000443032933	0.00928975103	0.9962
10-Nov-2013	27	0.000439265559	0.0118724377	0.9985
14-Nov-2013	30	0.000441875942	0.00491648365	0.9973
Mean		0.000400331805	0.00471254472	0.9977
S.D.		0.0000754158565	0.00634735887	0.0019
%CV		18.8	134.7	0.2
n		14	14	14



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 19 Standard Curve Parameters for *trans*-3'-Hydroxycotinine-*O*-Glucuronide

Assay Date	Run ID	Slope	Intercept	R-Squared
01-Nov-2013	1	0.00228936369	0.00616690329	0.9996
02-Nov-2013	3	0.00231163869	0.00472531125	0.9991
04-Nov-2013	7	0.00236924860	-0.00522172645	0.9990
05-Nov-2013	5	0.00236640452	0.00313651572	0.9986
05-Nov-2013	9	0.00160825459	0.00101042205	0.9988
06-Nov-2013	11	0.000864594900	0.0350937618	0.9991
07-Nov-2013	13	0.000896938028	0.0118336459	0.9955
07-Nov-2013	15	0.000853363730	-0.0169986601	0.9995
08-Nov-2013	19	0.000858222381	0.0212670782	0.9973
08-Nov-2013	21	0.000888416465	-0.0373422614	0.9953
09-Nov-2013	23	0.000836218095	0.00919709535	0.9990
10-Nov-2013	25	0.000876781062	0.00162045596	0.9988
10-Nov-2013	27	0.000868846712	-0.00924891240	0.9977
14-Nov-2013	30	0.000877541131	0.00752230404	0.9981
Mean		0.00134041661	0.00234013809	0.9982
S.D.		0.000681038683	0.0170032839	0.0014
%CV		50.8	726.6	0.1
n		14	14	14





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 20 Study Sample Concentrations for Nicotine

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000001	4	0025	-1	0	283	1	OK		Nicotine
05111500000002	4	0025	0	1	317	1	OK		Nicotine
05111500000003	4	0025	1	2	749	1	OK		Nicotine
05111500000004	4	0025	2	3	354	1	OK		Nicotine
05111500000005	4	0025	3	4	656	1	OK		Nicotine
05111500000006	4	0025	4	5	383	1	OK		Nicotine
05111500000007	4	0025	5	6	644	1	OK		Nicotine
05111500000008	4	0029	-1	0	528	1	OK		Nicotine
05111500000009	4	0029	0	1	425	1	OK		Nicotine
05111500000010	4	0029	1	2	1040	1	OK		Nicotine
05111500000011	4	0029	2	3	679	1	OK		Nicotine
05111500000012	4	0029	3	4	629	1	OK		Nicotine
05111500000013	4	0029	4	5	641	1	OK		Nicotine
05111500000014	4	0029	5	6	983	1	OK		Nicotine
05111500000015	4	0035	-1	0	846	1	OK		Nicotine
05111500000016	4	0035	0	1	707	1	OK		Nicotine
05111500000017	4	0035	1	2	954	1	OK		Nicotine
05111500000018	4	0035	2	3	488	1	OK		Nicotine
05111500000019	4	0035	3	4	452	1	OK		Nicotine
05111500000020	4	0035	4	5	693	1	OK		Nicotine
05111500000021	4	0035	5	6	1020	1	OK		Nicotine
05111500000022	4	0037	-1	0	710	1	OK		Nicotine
05111500000023	4	0037	0	1	924	1	OK		Nicotine
05111500000024	4	0037	1	2	1630	1	OK		Nicotine
05111500000025	4	0037	2	3	1120	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000026	4	0037	3	4	1310	1	OK		Nicotine
05111500000027	4	0037	4	5	1460	1	OK		Nicotine
05111500000028	4	0037	5	6	1870	1	OK		Nicotine
05111500000029	6	0042	-1	0	655	1	OK		Nicotine
05111500000030	6	0042	0	1	1730	1	OK		Nicotine
05111500000031	6	0042	1	2	1790	1	OK		Nicotine
05111500000032	6	0042	2	3	559	1	OK		Nicotine
05111500000033	6	0042	3	4	2350	1	OK		Nicotine
05111500000034	6	0042	4	5	584	1	OK		Nicotine
05111500000035	6	0042	5	6	1670	1	OK		Nicotine
05111500000036	6	0053	-1	0	376	1	OK		Nicotine
05111500000037	6	0053	0	1	350	1	OK		Nicotine
05111500000038	6	0053	1	2	509	1	OK		Nicotine
05111500000039	6	0053	2	3	579	1	OK		Nicotine
05111500000040	6	0053	3	4	280	1	OK		Nicotine
05111500000041	6	0053	4	5	260	1	OK		Nicotine
05111500000042	6	0053	5	6	627	1	OK		Nicotine
05111500000043	6	0055	-1	0	239	1	OK		Nicotine
05111500000044	6	0055	0	1	716	1	OK		Nicotine
05111500000045	6	0055	1	2	437	1	OK		Nicotine
05111500000046	6	0055	2	3	474	1	OK		Nicotine
05111500000047	6	0055	3	4	320	1	OK		Nicotine
05111500000048	6	0055	4	5	407	1	OK		Nicotine
05111500000049	6	0055	5	6	928	1	OK		Nicotine
05111500000050	6	0064	-1	0	226	1	OK		Nicotine
05111500000051	6	0064	0	1	247	1	OK		Nicotine
05111500000052	6	0064	1	2	519	1	OK		Nicotine
05111500000053	6	0064	2	3	313	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000054	6	0064	3	4	310	1	OK		Nicotine
05111500000055	6	0064	4	5	235	1	OK		Nicotine
05111500000056	6	0064	5	6	771	1	OK		Nicotine
05111500000057	8	0067	-1	0	333	1	OK		Nicotine
05111500000058	8	0067	0	1	652	1	OK		Nicotine
05111500000059	8	0067	1	2	345	1	OK		Nicotine
05111500000060	8	0067	2	3	303	1	OK		Nicotine
05111500000061	8	0067	3	4	352	1	OK		Nicotine
05111500000062	8	0067	4	5	229	1	OK		Nicotine
05111500000063	8	0067	5	6	432	1	OK		Nicotine
05111500000064	8	0072	-1	0	275	1	OK		Nicotine
05111500000065	8	0072	0	1	290	1	OK		Nicotine
05111500000066	8	0072	1	2	550	1	OK		Nicotine
05111500000067	8	0072	2	3	1040	1	OK		Nicotine
05111500000068	8	0072	3	4	594	1	OK		Nicotine
05111500000069	8	0072	4	5	748	1	OK		Nicotine
05111500000070	8	0072	5	6	464	1	OK		Nicotine
05111500000071	8	0080	-1	0	609	1	OK		Nicotine
05111500000072	8	0080	0	1	374	1	OK		Nicotine
05111500000073	8	0080	1	2	768	1	OK		Nicotine
05111500000074	8	0080	2	3	409	1	OK		Nicotine
05111500000075	8	0080	3	4	194	1	OK		Nicotine
05111500000076	8	0080	4	5	299	1	OK		Nicotine
05111500000077	8	0080	5	6	631	1	OK		Nicotine
05111500000078	8	0087	-1	0	493	1	OK		Nicotine
05111500000079	8	0087	0	1	859	1	OK		Nicotine
05111500000080	8	0087	1	2	883	1	OK		Nicotine
05111500000081	8	0087	2	3	835	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000082	8	0087	3	4	594	1	OK		Nicotine
05111500000083	8	0087	4	5	355	1	OK		Nicotine
05115000000084	8	0087	5	6	601	1	OK		Nicotine
05111500000085	10	0105	-1	0	637	1	OK		Nicotine
05111500000086	10	0105	0	1	602	1	OK		Nicotine
05111500000087	10	0105	1	2	1840	1	OK		Nicotine
05111500000088	10	0105	2	3	1160	1	OK		Nicotine
05111500000089	10	0105	3	4	646	1	OK		Nicotine
05111500000090	10	0105	4	5	392	1	OK		Nicotine
05111500000091	10	0105	5	6	565	1	OK		Nicotine
05111500000092	10	0117	-1	0	301	1	OK		Nicotine
05111500000093	10	0117	0	1	826	1	OK		Nicotine
05111500000094	10	0117	1	2	784	1	OK		Nicotine
05111500000095	10	0117	2	3	847	1	OK		Nicotine
05111500000096	10	0117	3	4	727	1	OK		Nicotine
05111500000097	10	0117	4	5	417	1	OK		Nicotine
05111500000098	10	0117	5	6	761	1	OK		Nicotine
05111500000099	10	0118	-1	0	1200	1	OK		Nicotine
05111500000100	10	0118	0	1	1640	1	OK		Nicotine
05111500000101	10	0118	1	2	2930	1	OK		Nicotine
05111500000102	10	0118	2	3	1790	1	OK		Nicotine
05111500000103	10	0118	3	4	2410	1	OK		Nicotine
05111500000104	10	0118	4	5	945	1	OK		Nicotine
05111500000105	10	0118	5	6	2140	1	OK		Nicotine
05111500000106	12	0121	-1	0	225	1	OK		Nicotine
05111500000107	12	0121	0	1	324	1	OK		Nicotine
05111500000108	12	0121	1	2	223	1	OK		Nicotine
05111500000109	12	0121	2	3	265	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000110	12	0121	3	4	126	1	OK		Nicotine
05111500000111	12	0121	4	5	82.3	1	OK		Nicotine
0511500000112	12	021	5	6	211	1	OK		Nicotine
05111500000113	2	0001	-1	0	336	1	OK		Nicotine
05111500000114	2	0001	0	1	418	1	OK		Nicotine
05111500000115	2	0001	1	2	638	1	OK		Nicotine
05111500000116	2	0001	2	3	1260	1	OK		Nicotine
05111500000117	2	0001	3	4	520	1	OK		Nicotine
05111500000118	2	0001	4	5	1340	1	OK		Nicotine
05111500000119	2	0001	5	6	1570	1	OK		Nicotine
05111500000120	2	0004	-1	0	650	1	OK		Nicotine
05111500000121	2	0004	0	1	1100	1	OK		Nicotine
05111500000122	2	0004	1	2	1270	1	OK		Nicotine
05111500000123	2	0004	2	3	859	1	OK		Nicotine
05111500000124	2	0004	3	4	1160	1	OK		Nicotine
05111500000125	2	0004	4	5	672	1	OK		Nicotine
05111500000126	2	0004	5	6	1090	1	OK		Nicotine
05111500000127	2	0008	-1	0	930	1	OK		Nicotine
05111500000128	2	0008	0	1	1200	1	OK		Nicotine
05111500000129	2	0008	1	2	1300	1	OK		Nicotine
05111500000130	2	0008	2	3	1090	1	OK		Nicotine
05111500000131	2	0008	3	4	1470	1	OK		Nicotine
05111500000132	2	0008	4	5	1480	1	OK		Nicotine
05111500000133	2	0008	5	6	1520	1	OK		Nicotine
05111500000134	2	0011	-1	0	244	1	OK		Nicotine
05111500000135	2	0011	0	1	1050	1	OK		Nicotine
05111500000136	2	0011	1	2	626	1	OK		Nicotine
05111500000137	2	0011	2	3	689	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000138	2	0011	3	4	748	1	OK		Nicotine
05111500000139	2	0011	4	5	713	1	OK		Nicotine
0511500000140	2	0011	5	6	1230	1	OK		Nicotine
05111500000141	2	0014	-1	0	358	1	OK		Nicotine
05111500000142	2	0014	0	1	1040	1	OK		Nicotine
05111500000143	2	0014	1	2	1230	1	OK		Nicotine
05111500000144	2	0014	2	3	807	1	OK		Nicotine
05111500000145	2	0014	3	4	1230	1	OK		Nicotine
05111500000146	2	0014	4	5	709	1	OK		Nicotine
05111500000147	2	0014	5	6	1690	1	OK		Nicotine
05111500000148	2	0016	-1	0	310	1	OK		Nicotine
05111500000149	2	0016	0	1	541	1	OK		Nicotine
05111500000150	2	0016	1	2	496	1	OK		Nicotine
05111500000151	2	0016	2	3	524	1	OK		Nicotine
05111500000152	2	0016	3	4	757	1	OK		Nicotine
05111500000153	2	0016	4	5	860	1	OK		Nicotine
05111500000154	2	0016	5	6	481	1	OK		Nicotine
05111500000155	2	0020	-1	0	929	1	OK		Nicotine
05111500000156	2	0020	0	1	976	1	OK		Nicotine
05111500000157	2	0020	1	2	872	1	OK		Nicotine
05111500000158	2	0020	2	3	1210	1	OK		Nicotine
05111500000159	2	0020	3	4	1040	1	OK		Nicotine
05111500000160	2	0020	4	5	1310	1	OK		Nicotine
05111500000161	2	0020	5	6	611	1	OK		Nicotine
05111500000162	2	0021	-1	0	570	1	OK		Nicotine
05111500000163	2	0021	0	1	864	1	OK		Nicotine
05111500000164	2	0021	1	2	815	1	OK		Nicotine
05111500000165	2	0021	2	3	2810	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000166	2	0021	3	4	431	1	OK		Nicotine
05111500000167	2	0021	4	5	366	1	OK		Nicotine
0511500000168	2	0021	5	6	1140	1	OK		Nicotine
05111500000169	2	0022	-1	0	368	1	OK		Nicotine
05111500000170	2	0022	0	1	733	1	OK		Nicotine
05111500000171	2	0022	1	2	348	1	OK		Nicotine
05111500000172	2	0022	2	3	320	1	OK		Nicotine
05111500000173	2	0022	3	4	617	1	OK		Nicotine
05111500000174	2	0022	4	5	554	1	OK		Nicotine
05111500000175	2	0022	5	6	675	1	OK		Nicotine
05111500000176	4	0023	-1	0	967	1	OK		Nicotine
05111500000177	4	0023	0	1	1030	1	OK		Nicotine
05111500000178	4	0023	1	2	333	1	OK		Nicotine
05111500000179	4	0023	2	3	359	1	OK		Nicotine
05111500000180	4	0023	3	4	659	1	OK		Nicotine
05111500000181	4	0023	4	5	666	1	OK		Nicotine
05111500000182	4	0023	5	6	1190	1	OK		Nicotine
05111500000183	4	0030	-1	0	190	1	OK		Nicotine
05111500000184	4	0030	0	1	800	1	OK		Nicotine
05111500000185	4	0030	1	2	419	1	OK		Nicotine
05111500000186	4	0030	2	3	760	1	OK		Nicotine
05111500000187	4	0030	3	4	370	1	OK		Nicotine
05111500000188	4	0030	4	5	655	1	OK		Nicotine
05111500000189	4	0030	5	6	699	1	OK		Nicotine
05111500000190	4	0031	-1	0	786	1	OK		Nicotine
05111500000191	4	0031	0	1	1680	1	OK		Nicotine
05111500000192	4	0031	1	2	1110	1	OK		Nicotine
05111500000193	4	0031	2	3	658	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000194	4	0031	3	4	861	1	OK		Nicotine
05111500000195	4	0031	4	5	890	1	OK		Nicotine
0511500000196	4	0031	5	6	1550	1	OK		Nicotine
05111500000197	4	0034	-1	0	605	1	OK		Nicotine
05111500000198	4	0034	0	1	575	1	OK		Nicotine
05111500000199	4	0034	1	2	842	1	OK		Nicotine
05111500000200	4	0034	2	3	599	1	OK		Nicotine
05111500000201	4	0034	3	4	1410	1	OK		Nicotine
05111500000202	4	0034	4	5	1300	1	OK		Nicotine
05111500000203	4	0034	5	6	536	1	OK		Nicotine
05111500000204	4	0038	-1	0	833	1	OK		Nicotine
05111500000205	4	0038	0	1	545	1	OK		Nicotine
05111500000206	4	0038	1	2	691	1	OK		Nicotine
05111500000207	4	0038	2	3	557	1	OK		Nicotine
05111500000208	4	0038	3	4	884	1	OK		Nicotine
05111500000209	4	0038	4	5	1030	1	OK		Nicotine
05111500000210	4	0038	5	6	1450	1	OK		Nicotine
05111500000211	6	0039	-1	0	437	1	OK		Nicotine
05111500000212	6	0039	0	1	454	1	OK		Nicotine
05111500000213	6	0039	1	2	339	1	OK		Nicotine
05111500000214	6	0039	2	3	380	1	OK		Nicotine
05111500000215	6	0039	3	4	510	1	OK		Nicotine
05111500000216	6	0039	4	5	444	1	OK		Nicotine
05111500000217	6	0039	5	6	712	1	OK		Nicotine
05111500000218	6	0044	-1	0	250	1	OK		Nicotine
05111500000219	6	0044	0	1	516	1	OK		Nicotine
05111500000220	6	0044	1	2	563	1	OK		Nicotine
05111500000221	6	0044	2	3	204	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000222	6	0044	3	4	189	1	OK		Nicotine
05111500000223	6	0044	4	5	200	1	OK		Nicotine
0511500000224	6	0044	5	6	575	1	OK		Nicotine
05111500000225	6	0057	-1	0	912	1	OK		Nicotine
05111500000226	6	0057	0	1	684	1	OK		Nicotine
05111500000227	6	0057	1	2	1360	1	OK		Nicotine
05111500000228	6	0057	2	3	1030	1	OK		Nicotine
05111500000229	6	0057	3	4	1900	1	OK		Nicotine
05111500000230	6	0057	4	5	1220	1	OK		Nicotine
05111500000231	6	0057	5	6	1760	1	OK		Nicotine
05111500000232	6	0060	-1	0	667	1	OK		Nicotine
05111500000233	6	0060	0	1	621	1	OK		Nicotine
05111500000234	6	0060	1	2	2130	1	OK		Nicotine
05111500000235	6	0060	2	3	1910	1	OK		Nicotine
05111500000236	6	0060	3	4	1490	1	OK		Nicotine
05111500000237	6	0060	4	5	1110	1	OK		Nicotine
05111500000238	6	0060	5	6	2760	1	OK		Nicotine
05111500000239	6	0066	-1	0	408	1	OK		Nicotine
05111500000240	6	0066	0	1	713	1	OK		Nicotine
05111500000241	6	0066	1	2	490	1	OK		Nicotine
05111500000242	6	0066	2	3	439	1	OK		Nicotine
05111500000243	6	0066	3	4	562	1	OK		Nicotine
05111500000244	6	0066	4	5	176	1	OK		Nicotine
05111500000245	6	0066	5	6	513	1	OK		Nicotine
05111500000246	8	0069	-1	0	542	1	OK		Nicotine
05111500000247	8	0069	0	1	884	1	OK		Nicotine
05111500000248	8	0069	1	2	1760	1	OK		Nicotine
05111500000249	8	0069	2	3	1460	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000250	8	0069	3	4	981	1	OK		Nicotine
05111500000251	8	0069	4	5	603	1	OK		Nicotine
0511500000252	8	0069	5	6	873	1	OK		Nicotine
05111500000253	8	0074	-1	0	551	1	OK		Nicotine
05111500000254	8	0074	0	1	642	1	OK		Nicotine
05111500000255	8	0074	1	2	1040	1	OK		Nicotine
05111500000256	8	0074	2	3	1580	1	OK		Nicotine
05111500000257	8	0074	3	4	1200	1	OK		Nicotine
05111500000258	8	0074	4	5	559	1	OK		Nicotine
05111500000259	8	0074	5	6	1280	1	OK		Nicotine
05111500000260	8	0083	-1	0	682	1	OK		Nicotine
05111500000261	8	0083	0	1	788	1	OK		Nicotine
05111500000262	8	0083	1	2	593	1	OK		Nicotine
05111500000263	8	0083	2	3	791	1	OK		Nicotine
05111500000264	8	0083	3	4	844	1	OK		Nicotine
05111500000265	8	0083	4	5	652	1	OK		Nicotine
05111500000266	8	0083	5	6	886	1	OK		Nicotine
05111500000267	8	0085	-1	0	325	1	OK		Nicotine
05111500000268	8	0085	0	1	250	1	OK		Nicotine
05111500000269	8	0085	1	2	117	1	OK		Nicotine
05111500000270	8	0085	2	3	104	1	OK		Nicotine
05111500000274	8	0088	-1	0	427	1	OK		Nicotine
05111500000275	8	0088	0	1	727	1	OK		Nicotine
05111500000276	8	0088	1	2	216	1	OK		Nicotine
05111500000277	8	0088	2	3	190	1	OK		Nicotine
05111500000278	8	0088	3	4	339	1	OK		Nicotine
05111500000279	8	0088	4	5	286	1	OK		Nicotine
05111500000280	8	0088	5	6	609	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000281	10	0090	-1	0	1090	1	OK		Nicotine
05111500000282	10	0090	0	1	2150	1	OK		Nicotine
0511500000283	10	0090	1	2	1500	1	OK		Nicotine
05111500000284	10	0090	2	3	981	1	OK		Nicotine
05111500000285	10	0090	3	4	569	1	OK		Nicotine
05111500000286	10	0090	4	5	1000	1	OK		Nicotine
05111500000287	10	0090	5	6	2090	1	OK		Nicotine
05111500000288	10	0093	-1	0	517	1	OK		Nicotine
05111500000289	10	0093	0	1	781	1	OK		Nicotine
05111500000290	10	0093	1	2	1020	1	OK		Nicotine
05111500000291	10	0093	2	3	998	1	OK		Nicotine
05111500000292	10	0093	3	4	645	1	OK		Nicotine
05111500000293	10	0093	4	5	641	1	OK		Nicotine
05111500000294	10	0093	5	6	1150	1	OK		Nicotine
05111500000295	10	0106	-1	0	569	1	OK		Nicotine
05111500000296	10	0106	0	1	955	1	OK		Nicotine
05111500000297	10	0106	1	2	648	1	OK		Nicotine
05111500000298	10	0106	2	3	547	1	OK		Nicotine
05111500000299	10	0106	3	4	675	1	OK		Nicotine
05111500000300	10	0106	4	5	252	1	OK		Nicotine
05111500000301	10	0106	5	6	562	1	OK		Nicotine
05111500000302	10	0107	-1	0	914	1	OK		Nicotine
05111500000303	10	0107	0	1	511	1	OK		Nicotine
05111500000304	10	0107	1	2	256	1	OK		Nicotine
05111500000305	10	0107	2	3	207	1	OK		Nicotine
05111500000306	10	0107	3	4	308	1	OK		Nicotine
05111500000307	10	0107	4	5	133	1	OK		Nicotine
05111500000308	10	0107	5	6	186	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000309	10	0110	-1	0	396	1	OK		Nicotine
05111500000310	10	0110	0	1	1270	1	OK		Nicotine
0511500000311	10	0110	1	2	629	1	OK		Nicotine
05111500000312	10	0110	2	3	1140	1	OK		Nicotine
05111500000313	10	0110	3	4	653	1	OK		Nicotine
05111500000314	10	0110	4	5	506	1	OK		Nicotine
05111500000315	10	0110	5	6	1030	1	OK		Nicotine
05111500000316	10	0112	-1	0	230	1	OK		Nicotine
05111500000317	10	0112	0	1	740	1	OK		Nicotine
05111500000318	10	0112	1	2	761	1	OK		Nicotine
05111500000319	10	0112	2	3	696	1	OK		Nicotine
05111500000320	10	0112	3	4	731	1	OK		Nicotine
05111500000321	10	0112	4	5	612	1	OK		Nicotine
05111500000322	10	0112	5	6	1640	1	OK		Nicotine
05111500000323	12	0122	-1	0	324	1	OK		Nicotine
05111500000324	12	0122	0	1	264	1	OK		Nicotine
05111500000325	12	0122	1	2	505	1	OK		Nicotine
05111500000326	12	0122	2	3	662	1	OK		Nicotine
05111500000327	12	0122	3	4	600	1	OK		Nicotine
05111500000328	12	0122	4	5	337	1	OK		Nicotine
05111500000329	12	0122	5	6	481	1	OK		Nicotine
05111500000337	12	0129	-1	0	1760	1	OK		Nicotine
05111500000338	12	0129	0	1	1160	1	OK		Nicotine
05111500000339	12	0129	1	2	1230	1	OK		Nicotine
05111500000340	12	0129	2	3	606	1	OK		Nicotine
05111500000341	12	0129	3	4	931	1	OK		Nicotine
05111500000342	12	0129	4	5	500	1	OK		Nicotine
05111500000343	12	0129	5	6	661	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000344	12	0130	-1	0	440	1	OK		Nicotine
05111500000345	12	0130	0	1	1370	1	OK		Nicotine
0511500000346	12	0130	1	2	846	1	OK		Nicotine
05111500000347	12	0130	2	3	652	1	OK		Nicotine
05111500000348	12	0130	3	4	484	1	OK		Nicotine
05111500000349	12	0130	4	5	481	1	OK		Nicotine
05111500000350	12	0130	5	6	678	1	OK		Nicotine
05111500000351	12	0134	-1	0	469	1	OK		Nicotine
05111500000352	12	0134	0	1	942	1	OK		Nicotine
05111500000353	12	0134	1	2	1070	1	OK		Nicotine
05111500000354	12	0134	2	3	1440	1	OK		Nicotine
05111500000355	12	0134	3	4	1180	1	OK		Nicotine
05111500000356	12	0134	4	5	1210	1	OK		Nicotine
05111500000357	12	0134	5	6	1570	1	OK		Nicotine
05111500000358	12	0136	-1	0	858	1	OK		Nicotine
05111500000359	12	0136	0	1	1460	1	OK		Nicotine
05111500000360	12	0136	1	2	1620	1	OK		Nicotine
05111500000361	12	0136	2	3	1740	1	OK		Nicotine
05111500000362	12	0136	3	4	1530	1	OK		Nicotine
05111500000363	12	0136	4	5	847	1	OK		Nicotine
05111500000364	12	0136	5	6	1630	1	OK		Nicotine
05111500000365	14	0147	-1	0	555	1	OK		Nicotine
05111500000366	14	0147	0	1	667	1	OK		Nicotine
05111500000367	14	0147	1	2	475	1	OK		Nicotine
05111500000368	14	0147	2	3	450	1	OK		Nicotine
05111500000369	14	0147	3	4	581	1	OK		Nicotine
05111500000370	14	0147	4	5	480	1	OK		Nicotine
05111500000371	14	0147	5	6	648	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000372	14	0149	-1	0	338	1	OK		Nicotine
05111500000373	14	0149	0	1	330	1	OK		Nicotine
051 1500000374	14	0 49	1	2	434	1	OK		Nicot ne
05111500000375	14	0149	2	3	358	1	OK		Nicotine
05111500000376	14	0149	3	4	418	1	OK		Nicotine
05111500000377	14	0149	4	5	375	1	OK		Nicotine
05111500000378	14	0149	5	6	559	1	OK		Nicotine
05111500000379	14	0153	-1	0	306	1	OK		Nicotine
05111500000380	14	0153	0	1	624	1	OK		Nicotine
05111500000381	14	0153	1	2	704	1	OK		Nicotine
05111500000382	14	0153	2	3	462	1	OK		Nicotine
05111500000383	14	0153	3	4	566	1	OK		Nicotine
05111500000384	14	0153	4	5	170	1	OK		Nicotine
05111500000385	14	0153	5	6	393	1	OK		Nicotine
05111500000386	14	0155	-1	0	350	1	OK		Nicotine
05111500000387	14	0155	0	1	546	1	OK		Nicotine
05111500000388	14	0155	1	2	224	1	OK		Nicotine
05111500000389	14	0155	2	3	182	1	OK		Nicotine
05111500000390	14	0155	3	4	176	1	OK		Nicotine
05111500000391	14	0155	4	5	127	1	OK		Nicotine
05111500000392	14	0155	5	6	211	1	OK		Nicotine
05111500000393	14	0162	-1	0	99 7	1	OK		Nicotine
05111500000394	14	0162	0	1	628	1	OK		Nicotine
05111500000395	14	0162	1	2	1040	1	OK		Nicotine
05111500000396	14	0162	2	3	1670	1	OK		Nicotine
05111500000397	14	0162	3	4	1630	1	OK		Nicotine
05111500000398	14	0162	4	5	932	1	OK		Nicotine
05111500000399	14	0162	5	6	1690	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000400	16	0167	-1	0	124	1	OK		Nicotine
05111500000401	16	0167	0	1	454	1	OK		Nicotine
0511500000402	16	0167	1	2	842	1	OK		Nicotine
05111500000403	16	0167	2	3	770	1	OK		Nicotine
05111500000404	16	0167	3	4	834	1	OK		Nicotine
05111500000405	16	0167	4	5	351	1	OK		Nicotine
05111500000406	16	0167	5	6	849	1	OK		Nicotine
05111500000407	16	0170	-1	0	383	1	OK		Nicotine
05111500000408	16	0170	0	1	523	1	OK		Nicotine
05111500000409	16	0170	1	2	405	1	OK		Nicotine
05111500000410	16	0170	2	3	502	1	OK		Nicotine
05111500000411	16	0170	3	4	291	1	OK		Nicotine
05111500000412	16	0170	4	5	212	1	OK		Nicotine
05111500000413	16	0170	5	6	401	1	OK		Nicotine
05111500000414	16	0177	-1	0	334	1	OK		Nicotine
05111500000415	16	0177	0	1	575	1	OK		Nicotine
05111500000416	16	0177	1	2	396	1	OK		Nicotine
05111500000417	16	0177	2	3	372	1	OK		Nicotine
05111500000418	16	0177	3	4	329	1	OK		Nicotine
05111500000419	16	0177	4	5	327	1	OK		Nicotine
05111500000420	16	0177	5	6	933	1	OK		Nicotine
05111500000421	16	0181	-1	0	893	1	OK		Nicotine
05111500000422	16	0181	0	1	2480	1	OK		Nicotine
05111500000423	16	0181	1	2	2400	1	OK		Nicotine
05111500000424	16	0181	2	3	1670	1	OK		Nicotine
05111500000425	16	0181	3	4	2210	1	OK		Nicotine
05111500000426	16	0181	4	5	1270	1	OK		Nicotine
05111500000427	16	0181	5	6	2040	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000428	16	0183	-1	0	353	1	OK		Nicotine
05111500000429	16	0183	0	1	475	1	OK		Nicotine
0511500000430	16	0183	1	2	164	1	OK		Nicotine
05111500000431	16	0183	2	3	144	1	OK		Nicotine
05111500000432	16	0183	3	4	136	1	OK		Nicotine
05111500000433	16	0183	4	5	94.1	1	OK		Nicotine
05111500000434	16	0183	5	6	223	1	OK		Nicotine
05111500000435	16	0189	-1	0	404	1	OK		Nicotine
05111500000436	16	0189	0	1	481	1	OK		Nicotine
05111500000437	16	0189	1	2	567	1	OK		Nicotine
05111500000438	16	0189	2	3	457	1	OK		Nicotine
05111500000439	16	0189	3	4	392	1	OK		Nicotine
05111500000440	16	0189	4	5	429	1	OK		Nicotine
05111500000441	16	0189	5	6	1010	1	OK		Nicotine
05111500000442	16	0190	-1	0	675	1	OK		Nicotine
05111500000443	16	0190	0	1	1150	1	OK		Nicotine
05111500000444	16	0190	1	2	1720	1	OK		Nicotine
05111500000445	16	0190	2	3	1330	1	OK		Nicotine
05111500000446	16	0190	3	4	1450	1	OK		Nicotine
05111500000447	16	0190	4	5	740	1	OK		Nicotine
05111500000448	16	0190	5	6	1910	1	OK		Nicotine
05111500000449	18	0192	-1	0	850	1	OK		Nicotine
05111500000450	18	0192	0	1	2000	1	OK		Nicotine
05111500000451	18	0192	1	2	2280	1	OK		Nicotine
05111500000452	18	0192	2	3	2460	1	OK		Nicotine
05111500000453	18	0192	3	4	3550	1	OK		Nicotine
05111500000454	18	0192	4	5	1100	1	OK		Nicotine
05111500000455	18	0192	5	6	2150	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000456	18	0193	-1	0	768	1	OK		Nicotine
05111500000457	18	0193	0	1	2310	1	OK		Nicotine
05115000000458	18	0193	1	2	1200	1	OK		Nicotine
05111500000459	18	0193	2	3	910	1	OK		Nicotine
05111500000460	18	0193	3	4	1150	1	OK		Nicotine
05111500000461	18	0193	4	5	572	1	OK		Nicotine
05111500000462	18	0193	5	6	965	1	OK		Nicotine
05111500000463	18	0195	-1	0	493	1	OK		Nicotine
05111500000464	18	0195	0	1	308	1	OK		Nicotine
05111500000465	18	0195	1	2	BLQ<(50.0)	1	OK		Nicotine
05111500000466	18	0195	2	3	BLQ<(50.0)	1	OK		Nicotine
05111500000467	18	0195	3	4	168	1	OK		Nicotine
05111500000468	18	0195	4	5	295	1	OK		Nicotine
05111500000469	18	0195	5	6	170	1	OK		Nicotine
05111500000470	18	0196	-1	0	135	1	OK		Nicotine
05111500000471	18	0196	0	1	314	1	OK		Nicotine
05111500000472	18	0196	1	2	70.2	1	OK		Nicotine
05111500000473	18	0196	2	3	143	1	OK		Nicotine
05111500000474	18	0196	3	4	140	1	OK		Nicotine
05111500000475	18	0196	4	5	302	1	OK		Nicotine
05111500000476	18	0196	5	6	279	1	OK		Nicotine
05111500000477	18	0202	-1	0	563	1	OK		Nicotine
05111500000478	18	0202	0	1	1510	1	OK		Nicotine
05111500000479	18	0202	1	2	1100	1	OK		Nicotine
05111500000480	18	0202	2	3	1120	1	OK		Nicotine
05111500000481	18	0202	3	4	1820	1	OK		Nicotine
05111500000482	18	0202	4	5	882	1	OK		Nicotine
05111500000483	18	0202	5	6	958	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000484	18	0206	-1	0	559	1	OK		Nicotine
05111500000485	18	0206	0	1	958	1	OK		Nicotine
05115000000486	18	0206	1	2	793	1	OK		Nicotine
05111500000487	18	0206	2	3	752	1	OK		Nicotine
05111500000488	18	0206	3	4	641	1	OK		Nicotine
05111500000489	18	0206	4	5	252	1	OK		Nicotine
05111500000490	18	0206	5	6	816	1	OK		Nicotine
05111500000491	20	0210	-1	0	747	1	OK		Nicotine
05111500000492	20	0210	0	1	677	1	OK		Nicotine
05111500000493	20	0210	1	2	1000	1	OK		Nicotine
05111500000494	20	0210	2	3	848	1	OK		Nicotine
05111500000495	20	0210	3	4	580	1	OK		Nicotine
05111500000496	20	0210	4	5	550	1	OK		Nicotine
05111500000497	20	0210	5	6	1280	1	OK		Nicotine
05111500000498	20	0216	-1	0	738	1	OK		Nicotine
05111500000499	20	0216	0	1	1180	1	OK		Nicotine
05111500000500	20	0216	1	2	757	1	OK		Nicotine
05111500000501	20	0216	2	3	651	1	OK		Nicotine
05111500000502	20	0216	3	4	740	1	OK		Nicotine
05111500000503	20	0216	4	5	632	1	OK		Nicotine
05111500000504	20	0216	5	6	711	1	OK		Nicotine
05111500000505	20	0220	-1	0	322	1	OK		Nicotine
05111500000506	20	0220	0	1	538	1	OK		Nicotine
05111500000507	20	0220	1	2	167	1	OK		Nicotine
05111500000508	20	0220	2	3	168	1	OK		Nicotine
05111500000509	20	0220	3	4	150	1	OK		Nicotine
05111500000510	20	0220	4	5	111	1	OK		Nicotine
05111500000511	20	0220	5	6	78.8	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000512	20	0228	-1	0	551	1	OK		Nicotine
05111500000513	20	0228	0	1	1310	1	OK		Nicotine
0511500000514	20	0228	1	2	1290	1	OK		Nicotine
05111500000515	20	0228	2	3	1060	1	OK		Nicotine
05111500000516	20	0228	3	4	990	1	OK		Nicotine
05111500000517	20	0228	4	5	594	1	OK		Nicotine
05111500000518	20	0228	5	6	710	1	OK		Nicotine
05111500000519	20	0232	-1	0	128	1	OK		Nicotine
05111500000520	20	0232	0	1	246	1	OK		Nicotine
05111500000521	20	0232	1	2	431	1	OK		Nicotine
05111500000522	20	0232	2	3	426	1	OK		Nicotine
05111500000523	20	0232	3	4	462	1	OK		Nicotine
05111500000524	20	0232	4	5	392	1	OK		Nicotine
05111500000525	20	0232	5	6	383	1	OK		Nicotine
05111500000526	20	0234	-1	0	833	1	OK		Nicotine
05111500000527	20	0234	0	1	1140	1	OK		Nicotine
05111500000528	20	0234	1	2	1290	1	OK		Nicotine
05111500000529	20	0234	2	3	2140	1	OK		Nicotine
05111500000530	20	0234	3	4	1440	1	OK		Nicotine
05111500000531	20	0234	4	5	911	1	OK		Nicotine
05111500000532	20	0234	5	6	991	1	OK		Nicotine
05111500000533	22	0241	-1	0	797	1	OK		Nicotine
05111500000534	22	0241	0	1	718	1	OK		Nicotine
05111500000535	22	0241	1	2	702	1	OK		Nicotine
05111500000536	22	0241	2	3	1020	1	OK		Nicotine
05111500000537	22	0241	3	4	828	1	OK		Nicotine
05111500000538	22	0241	4	5	324	1	OK		Nicotine
05111500000539	22	0241	5	6	867	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000540	22	0244	-1	0	533	1	OK		Nicotine
05111500000541	22	0244	0	1	1030	1	OK		Nicotine
0511500000542	22	0244	1	2	1140	1	OK		Nicotine
05111500000543	22	0244	2	3	961	1	OK		Nicotine
05111500000544	22	0244	3	4	857	1	OK		Nicotine
05111500000545	22	0244	4	5	625	1	OK		Nicotine
05111500000546	22	0244	5	6	1080	1	OK		Nicotine
05111500000547	22	0255	-1	0	345	1	OK		Nicotine
05111500000548	22	0255	0	1	523	1	OK		Nicotine
05111500000549	22	0255	1	2	220	1	OK		Nicotine
05111500000550	22	0255	2	3	560	1	OK		Nicotine
05111500000551	22	0255	3	4	606	1	OK		Nicotine
05111500000552	22	0255	4	5	888	1	OK		Nicotine
05111500000553	22	0255	5	6	1510	1	OK		Nicotine
05111500000554	22	0256	-1	0	328	1	OK		Nicotine
05111500000555	22	0256	0	1	358	1	OK		Nicotine
05111500000556	22	0256	1	2	801	1	OK		Nicotine
05111500000557	22	0256	2	3	247	1	OK		Nicotine
05111500000558	22	0256	3	4	381	1	OK		Nicotine
05111500000559	22	0256	4	5	241	1	OK		Nicotine
05111500000560	22	0256	5	6	1490	1	OK		Nicotine
05111500000561	14	0156	-1	0	784	1	OK		Nicotine
05111500000562	14	0156	0	1	1640	1	OK		Nicotine
05111500000563	14	0156	1	2	2230	1	OK		Nicotine
05111500000564	14	0156	2	3	1590	1	OK		Nicotine
05111500000565	14	0156	3	4	1560	1	OK		Nicotine
05111500000566	14	0156	4	5	1060	1	OK		Nicotine
05111500000567	14	0156	5	6	1690	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000568	12	0126	-1	0	549	1	OK		Nicotine
05111500000569	12	0126	0	1	516	1	OK		Nicotine
0511500000570	12	0126	1	2	814	1	OK		Nicotine
05111500000571	12	0126	2	3	541	1	OK		Nicotine
05111500000572	12	0126	3	4	435	1	OK		Nicotine
05111500000573	12	0126	4	5	226	1	OK		Nicotine
05111500000574	12	0126	5	6	352	1	OK		Nicotine
05111500000575	12	0139	-1	0	809	1	OK		Nicotine
05111500000576	12	0139	0	1	1440	1	OK		Nicotine
05111500000577	12	0139	1	2	1310	1	OK		Nicotine
05111500000578	12	0139	2	3	1330	1	OK		Nicotine
05111500000579	12	0139	3	4	1240	1	OK		Nicotine
05111500000580	12	0139	4	5	686	1	OK		Nicotine
05111500000581	12	0139	5	6	2160	1	OK		Nicotine
05111500000582	12	0140	-1	0	222	1	OK		Nicotine
05111500000583	12	0140	0	1	545	1	OK		Nicotine
05111500000584	12	0140	1	2	731	1	OK		Nicotine
05111500000585	12	0140	2	3	762	1	OK		Nicotine
05111500000586	12	0140	3	4	738	1	OK		Nicotine
05111500000587	12	0140	4	5	439	1	OK		Nicotine
05111500000588	12	0140	5	6	538	1	OK		Nicotine
05111500000589	14	0148	-1	0	1040	1	OK		Nicotine
05111500000590	14	0148	0	1	1840	1	OK		Nicotine
05111500000591	14	0148	1	2	2550	1	OK		Nicotine
05111500000592	14	0148	2	3	1130	1	OK		Nicotine
05111500000593	14	0148	3	4	1290	1	OK		Nicotine
05111500000594	14	0148	4	5	1010	1	OK		Nicotine
05111500000595	14	0148	5	6	1600	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000596	14	0152	-1	0	324	1	OK		Nicotine
05111500000597	14	0152	0	1	201	1	OK		Nicotine
05115000000598	14	0152	1	2	439	1	OK		Nicotine
05111500000599	14	0152	2	3	152	1	OK		Nicotine
05111500000600	14	0152	3	4	247	1	OK		Nicotine
05111500000601	14	0152	4	5	BLQ<(50.0)	1	OK		Nicotine
05111500000602	14	0152	5	6	169	1	OK		Nicotine
05111500000603	14	0160	-1	0	475	1	OK		Nicotine
05111500000604	14	0160	0	1	849	1	OK		Nicotine
05111500000605	14	0160	1	2	1630	1	OK		Nicotine
05111500000606	14	0160	2	3	458	1	OK		Nicotine
05111500000607	14	0160	3	4	2720	1	OK		Nicotine
05111500000608	14	0160	4	5	704	1	OK		Nicotine
05111500000609	14	0160	5	6	806	1	OK		Nicotine
05111500000610	16	0187	-1	0	168	1	OK		Nicotine
05111500000611	16	0187	0	1	645	1	OK		Nicotine
05111500000612	16	0187	1	2	1540	1	OK		Nicotine
05111500000613	16	0187	2	3	2700	1	OK		Nicotine
05111500000614	16	0187	3	4	2130	1	OK		Nicotine
05111500000615	16	0187	4	5	1390	1	OK		Nicotine
05111500000616	16	0187	5	6	1240	1	OK		Nicotine
05111500000617	16	0191	-1	0	183	1	OK		Nicotine
05111500000618	16	0191	0	1	493	1	OK		Nicotine
05111500000619	16	0191	1	2	643	1	OK		Nicotine
05111500000620	16	0191	2	3	530	1	OK		Nicotine
05111500000621	16	0191	3	4	352	1	OK		Nicotine
05111500000622	16	0191	4	5	268	1	OK		Nicotine
05111500000623	16	0191	5	6	560	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000694	18	0198	-1	0	295	1	OK		Nicotine
05111500000695	18	0198	0	1	1110	1	OK		Nicotine
05115000000696	18	0198	1	2	1470	1	OK		Nicotine
05111500000697	18	0198	2	3	1530	1	OK		Nicotine
05111500000698	18	0198	3	4	662	1	OK		Nicotine
05111500000699	18	0198	4	5	1020	1	OK		Nicotine
05111500000700	18	0198	5	6	1080	1	OK		Nicotine
05111500000701	18	0200	-1	0	151	1	OK		Nicotine
05111500000702	18	0200	0	1	435	1	OK		Nicotine
05111500000703	18	0200	1	2	754	1	OK		Nicotine
05111500000704	18	0200	2	3	542	1	OK		Nicotine
05111500000705	18	0200	3	4	1030	1	OK		Nicotine
05111500000706	18	0200	4	5	729	1	OK		Nicotine
05111500000707	18	0200	5	6	601	1	OK		Nicotine
05111500000708	18	0204	-1	0	278	1	OK		Nicotine
05111500000709	18	0204	0	1	732	1	OK		Nicotine
05111500000710	18	0204	1	2	690	1	OK		Nicotine
05111500000711	18	0204	2	3	447	1	OK		Nicotine
05111500000712	18	0204	3	4	631	1	OK		Nicotine
05111500000713	18	0204	4	5	597	1	OK		Nicotine
05111500000714	18	0204	5	6	312	1	OK		Nicotine
05111500000715	20	0224	-1	0	533	1	OK		Nicotine
05111500000716	20	0224	0	1	639	1	OK		Nicotine
05111500000717	20	0224	1	2	1130	1	OK		Nicotine
05111500000718	20	0224	2	3	932	1	OK		Nicotine
05111500000719	20	0224	3	4	944	1	OK		Nicotine
05111500000720	20	0224	4	5	914	1	OK		Nicotine
05111500000721	20	0224	5	6	647	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000722	20	0229	-1	0	250	1	OK		Nicotine
05111500000723	20	0229	0	1	248	1	OK		Nicotine
0511500000724	20	0229	1	2	591	1	OK		Nicotine
05111500000725	20	0229	2	3	421	1	OK		Nicotine
05111500000726	20	0229	3	4	554	1	OK		Nicotine
05111500000727	20	0229	4	5	438	1	OK		Nicotine
05111500000728	20	0229	5	6	318	1	OK		Nicotine
05111500000729	20	0230	-1	0	574	1	OK		Nicotine
05111500000730	20	0230	0	1	1140	1	OK		Nicotine
05111500000731	20	0230	1	2	857	1	OK		Nicotine
05111500000732	20	0230	2	3	726	1	OK		Nicotine
05111500000733	20	0230	3	4	513	1	OK		Nicotine
05111500000734	20	0230	4	5	644	1	OK		Nicotine
05111500000735	20	0230	5	6	927	1	OK		Nicotine
05111500000736	22	0262	-1	0	1090	1	OK		Nicotine
05111500000737	22	0262	0	1	1660	1	OK		Nicotine
05111500000738	22	0262	1	2	933	1	OK		Nicotine
05111500000739	22	0262	2	3	1460	1	OK		Nicotine
05111500000740	22	0262	3	4	1140	1	OK		Nicotine
05111500000741	22	0262	4	5	1040	1	OK		Nicotine
05111500000742	22	0262	5	6	540	1	OK		Nicotine
05111500000743	24	0278	-1	0	167	1	OK		Nicotine
05111500000744	24	0278	0	1	471	1	OK		Nicotine
05111500000745	24	0278	1	2	657	1	OK		Nicotine
05111500000746	24	0278	2	3	597	1	OK		Nicotine
05111500000747	24	0278	3	4	343	1	OK		Nicotine
05111500000748	24	0278	4	5	213	1	OK		Nicotine
05111500000749	24	0278	5	6	237	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000750	24	0283	-1	0	643	1	OK		Nicotine
05111500000751	24	0283	0	1	484	1	OK		Nicotine
0511500000752	24	0283	1	2	564	1	OK		Nicotine
05111500000753	24	0283	2	3	359	1	OK		Nicotine
05111500000754	24	0283	3	4	428	1	OK		Nicotine
05111500000755	24	0283	4	5	237	1	OK		Nicotine
05111500000756	24	0283	5	6	333	1	OK		Nicotine
05111500000757	24	0285	-1	0	270	1	OK		Nicotine
05111500000758	24	0285	0	1	788	1	OK		Nicotine
05111500000759	24	0285	1	2	766	1	OK		Nicotine
05111500000760	24	0285	2	3	779	1	OK		Nicotine
05111500000761	24	0285	3	4	650	1	OK		Nicotine
05111500000762	24	0285	4	5	249	1	OK		Nicotine
05111500000763	24	0285	5	6	714	1	OK		Nicotine
05111500000764	26	0298	-1	0	303	1	OK		Nicotine
05111500000765	26	0298	0	1	1110	1	OK		Nicotine
05111500000766	26	0298	1	2	700	1	OK		Nicotine
05111500000767	26	0298	2	3	390	1	OK		Nicotine
05111500000768	26	0298	3	4	634	1	OK		Nicotine
05111500000769	26	0298	4	5	465	1	OK		Nicotine
05111500000770	26	0298	5	6	1150	1	OK		Nicotine
05111500000771	26	0313	-1	0	550	1	OK		Nicotine
05111500000772	26	0313	0	1	517	1	OK		Nicotine
05111500000773	26	0313	1	2	1180	1	OK		Nicotine
05111500000774	26	0313	2	3	821	1	OK		Nicotine
05111500000775	26	0313	3	4	675	1	OK		Nicotine
05111500000776	26	0313	4	5	559	1	OK		Nicotine
05111500000777	26	0313	5	6	507	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000778	26	0315	-1	0	371	1	OK		Nicotine
05111500000779	26	0315	0	1	1090	1	OK		Nicotine
0511500000780	26	0315	1	2	1440	1	OK		Nicotine
05111500000781	26	0315	2	3	1460	1	OK		Nicotine
05111500000782	26	0315	3	4	882	1	OK		Nicotine
05111500000783	26	0315	4	5	707	1	OK		Nicotine
05111500000784	26	0315	5	6	1120	1	OK		Nicotine
05111500000785	26	0318	-1	0	526	1	OK		Nicotine
05111500000786	26	0318	0	1	668	1	OK		Nicotine
05111500000787	26	0318	1	2	1210	1	OK		Nicotine
05111500000788	26	0318	2	3	1070	1	OK		Nicotine
05111500000789	26	0318	3	4	700	1	OK		Nicotine
05111500000790	26	0318	4	5	894	1	OK		Nicotine
05111500000791	26	0318	5	6	891	1	OK		Nicotine
05111500000792	28	0322	-1	0	220	1	OK		Nicotine
05111500000793	28	0322	0	1	528	1	OK		Nicotine
05111500000794	28	0322	1	2	282	1	OK		Nicotine
05111500000795	28	0322	2	3	395	1	OK		Nicotine
05111500000796	28	0322	3	4	246	1	OK		Nicotine
05111500000797	28	0322	4	5	150	1	OK		Nicotine
05111500000798	28	0322	5	6	267	1	OK		Nicotine
05111500000799	28	0328	-1	0	368	1	OK		Nicotine
05111500000800	28	0328	0	1	353	1	OK		Nicotine
05111500000801	28	0328	1	2	430	1	OK		Nicotine
05111500000802	28	0328	2	3	419	1	OK		Nicotine
05111500000803	28	0328	3	4	340	1	OK		Nicotine
05111500000804	28	0328	4	5	185	1	OK		Nicotine
05111500000805	28	0328	5	6	352	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000898		0067	0	1		2	OK	Analysis not required	Nicotine
05111500001688	22	0264	-1	0	409	1	OK		Nicotine
0511500001689	22	0264	0	1	407	1	OK		Nicotine
05111500001690	22	0264	1	2	685	1	OK		Nicotine
05111500001691	22	0264	2	3	906	1	OK		Nicotine
05111500001692	22	0264	3	4	635	1	OK		Nicotine
05111500001693	22	0264	4	5	144	1	OK		Nicotine
05111500001694	22	0264	5	6	BLQ<(50.0)	1	OK		Nicotine
05111500001702	22	0272	-1	0	884	1	OK		Nicotine
05111500001703	22	0272	0	1	1500	1	OK		Nicotine
05111500001704	22	0272	1	2	1030	1	OK		Nicotine
05111500001705	22	0272	2	3	2480	1	OK		Nicotine
05111500001706	22	0272	3	4	2330	1	OK		Nicotine
05111500001707	22	0272	4	5	1290	1	OK		Nicotine
05111500001708	22	0272	5	6	2210	1	OK		Nicotine
05111500001716	22	0276	-1	0	98.7	1	OK		Nicotine
05111500001717	22	0276	0	1	260	1	OK		Nicotine
05111500001718	22	0276	1	2	264	1	OK		Nicotine
05111500001719	22	0276	2	3	356	1	OK		Nicotine
05111500001720	22	0276	3	4	415	1	OK		Nicotine
05111500001721	22	0276	4	5	416	1	OK		Nicotine
05111500001722	22	0276	5	6	577	1	OK		Nicotine
05111500001730	22	0277	-1	0	219	1	OK		Nicotine
05111500001731	22	0277	0	1	870	1	OK		Nicotine
05111500001732	22	0277	1	2	874	1	OK		Nicotine
05111500001733	22	0277	2	3	1020	1	OK		Nicotine
05111500001734	22	0277	3	4	954	1	OK		Nicotine
05111500001735	22	0277	4	5	413	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001736	22	0277	5	6	740	1	OK		Nicotine
05111500001744	24	0279	-1	0	316	1	OK		Nicotine
051 1500001745	24	0279	0	1	427	1	OK		Nicot ne
05111500001746	24	0279	1	2	423	1	OK		Nicotine
05111500001747	24	0279	2	3	269	1	OK		Nicotine
05111500001748	24	0279	3	4	342	1	OK		Nicotine
05111500001749	24	0279	4	5	286	1	OK		Nicotine
05111500001750	24	0279	5	6	647	1	OK		Nicotine
05111500001758	24	0281	-1	0	1870	1	OK		Nicotine
05111500001759	24	0281	0	1	2110	1	OK		Nicotine
05111500001760	24	0281	1	2	2840	1	OK		Nicotine
05111500001761	24	0281	2	3	2750	1	OK		Nicotine
05111500001762	24	0281	3	4	4100	1	OK		Nicotine
05111500001763	24	0281	4	5	2000	1	OK		Nicotine
05111500001764	24	0281	5	6	3180	1	OK		Nicotine
05111500001772	24	0282	-1	0	326	1	OK		Nicotine
05111500001773	24	0282	0	1	1400	1	OK		Nicotine
05111500001774	24	0282	1	2	788	1	OK		Nicotine
05111500001775	24	0282	2	3	974	1	OK		Nicotine
05111500001776	24	0282	3	4	1050	1	OK		Nicotine
05111500001777	24	0282	4	5	753	1	OK		Nicotine
05111500001778	24	0282	5	6	866	1	OK		Nicotine
05111500001786	24	0287	-1	0	381	1	OK		Nicotine
05111500001787	24	0287	0	1	899	1	OK		Nicotine
05111500001788	24	0287	1	2	858	1	OK		Nicotine
05111500001789	24	0287	2	3	716	1	OK		Nicotine
05111500001790	24	0287	3	4	1300	1	OK		Nicotine
05111500001791	24	0287	4	5	643	1	OK		Nicotine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001792	24	0287	5	6	2630	1	OK		Nicotine
05111500001800	24	0291	-1	0	189	1	OK		Nicotine
0511500001801	24	0291	0	1	883	1	OK		Nicotine
05111500001802	24	0291	1	2	285	1	OK		Nicotine
05111500001803	24	0291	2	3	416	1	OK		Nicotine
05111500001804	24	0291	3	4	345	1	OK		Nicotine
05111500001805	24	0291	4	5	306	1	OK		Nicotine
05111500001806	24	0291	5	6	515	1	OK		Nicotine
05111500001814	24	0296	-1	0	278	1	OK		Nicotine
05111500001815	24	0296	0	1	386	1	OK		Nicotine
05111500001816	24	0296	1	2	356	1	OK		Nicotine
05111500001817	24	0296	2	3	508	1	OK		Nicotine
05111500001818	24	0296	3	4	418	1	OK		Nicotine
05111500001819	24	0296	4	5	175	1	OK		Nicotine
05111500001820	24	0296	5	6	454	1	OK		Nicotine
05111500001828	26	0300	-1	0	152	1	OK		Nicotine
05111500001829	26	0300	0	1	112	1	OK		Nicotine
05111500001830	26	0300	1	2	171	1	OK		Nicotine
05111500001831	26	0300	2	3	131	1	OK		Nicotine
05111500001832	26	0300	3	4	BLQ<50.0	1	OK		Nicotine
05111500001833	26	0300	4	5	BLQ<50.0	1	OK		Nicotine
05111500001834	26	0300	5	6	80.7	1	OK		Nicotine
05111500001842	26	0301	-1	0	515	1	OK		Nicotine
05111500001843	26	0301	0	1	929	1	OK		Nicotine
05111500001844	26	0301	1	2	677	1	OK		Nicotine
05111500001845	26	0301	2	3	537	1	OK		Nicotine
05111500001846	26	0301	3	4	1380	1	OK		Nicotine
05111500001847	26	0301	4	5	673	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001848	26	0301	5	6	853	1	OK		Nicotine
05111500001856	26	0307	-1	0	875	1	OK		Nicotine
051 1500001857	26	0307	0	1	2340	1	OK		Nicotine
05111500001858	26	0307	1	2	1610	1	OK		Nicotine
05111500001859	26	0307	2	3	1710	1	OK		Nicotine
05111500001860	26	0307	3	4	1850	1	OK		Nicotine
05111500001861	26	0307	4	5	1600	1	OK		Nicotine
05111500001862	26	0307	5	6	1850	1	OK		Nicotine
05111500001870	26	0308	-1	0	1010	1	OK		Nicotine
05111500001871	26	0308	0	1	2600	1	OK		Nicotine
05111500001872	26	0308	1	2	1750	1	OK		Nicotine
05111500001873	26	0308	2	3	2100	1	OK		Nicotine
05111500001874	26	0308	3	4	2120	1	OK		Nicotine
05111500001875	26	0308	4	5	1230	1	OK		Nicotine
05111500001876	26	0308	5	6	1670	1	OK		Nicotine
05111500001884	26	0316	-1	0	61.3	1	OK		Nicotine
05111500001885	26	0316	0	1	168	1	OK		Nicotine
05111500001886	26	0316	1	2	310	1	OK		Nicotine
05111500001887	26	0316	2	3	263	1	OK		Nicotine
05111500001888	26	0316	3	4	141	1	OK		Nicotine
05111500001889	26	0316	4	5	160	1	OK		Nicotine
05111500001890	26	0316	5	6	135	1	OK		Nicotine
05111500001898	28	0320	-1	0	1950	1	OK		Nicotine
05111500001899	28	0320	0	1	2900	1	OK		Nicotine
05111500001900	28	0320	1	2	1510	1	OK		Nicotine
05111500001901	28	0320	2	3	1330	1	OK		Nicotine
05111500001902	28	0320	3	4	1560	1	OK		Nicotine
05111500001903	28	0320	4	5	1830	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001904	28	0320	5	6	2370	1	OK		Nicotine
05111500001912	28	0321	-1	0	451	1	OK		Nicotine
0511500001913	28	0321	0	1	709	1	OK		Nicotine
05111500001914	28	0321	1	2	1340	1	OK		Nicotine
05111500001915	28	0321	2	3	1690	1	OK		Nicotine
05111500001916	28	0321	3	4	1030	1	OK		Nicotine
05111500001917	28	0321	4	5	879	1	OK		Nicotine
05111500001918	28	0321	5	6	4610	1	OK		Nicotine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 21 Study Sample Concentrations for Cotinine

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
0511150000001	4	0025	-1	0	1	626	OK		Cotinine
0511150000002	4	0025	0	1	1	837	OK		Cotinine
0511150000003	4	0025	1	2	1	775	OK		Cotinine
0511150000004	4	0025	2	3	1	973	OK		Cotinine
0511150000005	4	0025	3	4	1	827	OK		Cotinine
0511150000006	4	0025	4	5	1	813	OK		Cotinine
0511150000007	4	0025	5	6	1	565	OK		Cotinine
0511150000008	4	0029	-1	0	1	1280	OK		Cotinine
0511150000009	4	0029	0	1	1	571	OK		Cotinine
0511150000010	4	0029	1	2	1	945	OK		Cotinine
0511150000011	4	0029	2	3	1	1020	OK		Cotinine
0511150000012	4	0029	3	4	1	947	OK		Cotinine
0511150000013	4	0029	4	5	1	972	OK		Cotinine
0511150000014	4	0029	5	6	1	784	OK		Cotinine
0511150000015	4	0035	-1	0	1	822	OK		Cotinine
0511150000016	4	0035	0	1	1	852	OK		Cotinine
0511150000017	4	0035	1	2	1	920	OK		Cotinine
0511150000018	4	0035	2	3	1	875	OK		Cotinine
0511150000019	4	0035	3	4	1	929	OK		Cotinine
0511150000020	4	0035	4	5	1	937	OK		Cotinine
0511150000021	4	0035	5	6	1	1020	OK		Cotinine
0511150000022	4	0037	-1	0	1	1170	OK		Cotinine
0511150000023	4	0037	0	1	1	1290	OK		Cotinine
0511150000024	4	0037	1	2	1	1240	OK		Cotinine
0511150000025	4	0037	2	3	1	1080	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000026	4	0037	3	4	1	1290	OK		Cotinine
05111500000027	4	0037	4	5	1	1290	OK		Cotinine
05111500000028	4	0037	5	6	1	1470	OK		Cotinine
05111500000029	6	0042	-1	0	1	1660	OK		Cotinine
05111500000030	6	0042	0	1	1	1680	OK		Cotinine
05111500000031	6	0042	1	2	1	1910	OK		Cotinine
05111500000032	6	0042	2	3	1	1660	OK		Cotinine
05111500000033	6	0042	3	4	1	2070	OK		Cotinine
05111500000034	6	0042	4	5	1	1290	OK		Cotinine
05111500000035	6	0042	5	6	1	1500	OK		Cotinine
05111500000036	6	0053	-1	0	1	1520	OK		Cotinine
05111500000037	6	0053	0	1	1	1490	OK		Cotinine
05111500000038	6	0053	1	2	1	1410	OK		Cotinine
05111500000039	6	0053	2	3	1	1390	OK		Cotinine
05111500000040	6	0053	3	4	1	1640	OK		Cotinine
05111500000041	6	0053	4	5	1	1370	OK		Cotinine
05111500000042	6	0053	5	6	1	1420	OK		Cotinine
05111500000043	6	0055	-1	0	1	867	OK		Cotinine
05111500000044	6	0055	0	1	1	996	OK		Cotinine
05111500000045	6	0055	1	2	1	858	OK		Cotinine
05111500000046	6	0055	2	3	1	998	OK		Cotinine
05111500000047	6	0055	3	4	1	761	OK		Cotinine
05111500000048	6	0055	4	5	1	831	OK		Cotinine
05111500000049	6	0055	5	6	1	1030	OK		Cotinine
05111500000050	6	0064	-1	0	1	582	OK		Cotinine
05111500000051	6	0064	0	1	1	797	OK		Cotinine
05111500000052	6	0064	1	2	1	587	OK		Cotinine
05111500000053	6	0064	2	3	1	498	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000054	6	0064	3	4	1	502	OK		Cotinine
05111500000055	6	0064	4	5	1	458	OK		Cotinine
05111500000056	6	0064	5	6	1	568	OK		Cotinine
05111500000057	8	0067	-1	0	1	534	OK		Cotinine
05111500000058	8	0067	0	1	1	672	OK		Cotinine
05111500000059	8	0067	1	2	1	547	OK		Cotinine
05111500000060	8	0067	2	3	1	424	OK		Cotinine
05111500000061	8	0067	3	4	1	426	OK		Cotinine
05111500000062	8	0067	4	5	1	429	OK		Cotinine
05111500000063	8	0067	5	6	1	456	OK		Cotinine
05111500000064	8	0072	-1	0	1	1200	OK		Cotinine
05111500000065	8	0072	0	1	1	1120	OK		Cotinine
05111500000066	8	0072	1	2	1	1100	OK		Cotinine
05111500000067	8	0072	2	3	1	1190	OK		Cotinine
05111500000068	8	0072	3	4	1	1600	OK		Cotinine
05111500000069	8	0072	4	5	1	1140	OK		Cotinine
05111500000070	8	0072	5	6	1	1180	OK		Cotinine
05111500000071	8	0080	-1	0	1	939	OK		Cotinine
05111500000072	8	0080	0	1	1	800	OK		Cotinine
05111500000073	8	0080	1	2	1	977	OK		Cotinine
05111500000074	8	0080	2	3	1	1090	OK		Cotinine
05111500000075	8	0080	3	4	1	809	OK		Cotinine
05111500000076	8	0080	4	5	1	699	OK		Cotinine
05111500000077	8	0080	5	6	1	840	OK		Cotinine
05111500000078	8	0087	-1	0	1	1970	OK		Cotinine
05111500000079	8	0087	0	1	1	1960	OK		Cotinine
05111500000080	8	0087	1	2	1	2140	OK		Cotinine
05111500000081	8	0087	2	3	1	1860	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000082	8	0087	3	4	1	1810	OK		Cotinine
05111500000083	8	0087	4	5	1	1300	OK		Cotinine
051 1500000084	8	0087	5	6	1	950	OK		Cotinine
05111500000085	10	0105	-1	0	1	1780	OK		Cotinine
05111500000086	10	0105	0	1	1	2300	OK		Cotinine
05111500000087	10	0105	1	2	1	2350	OK		Cotinine
05111500000088	10	0105	2	3	1	2180	OK		Cotinine
05111500000089	10	0105	3	4	1	1980	OK		Cotinine
05111500000090	10	0105	4	5	1	1740	OK		Cotinine
05111500000091	10	0105	5	6	1	1480	OK		Cotinine
05111500000092	10	0117	-1	0	1	614	OK		Cotinine
05111500000093	10	0117	0	1	1	743	OK		Cotinine
05111500000094	10	0117	1	2	1	1020	OK		Cotinine
05111500000095	10	0117	2	3	1	990	OK		Cotinine
05111500000096	10	0117	3	4	1	874	OK		Cotinine
05111500000097	10	0117	4	5	1	728	OK		Cotinine
05111500000098	10	0117	5	6	1	604	OK		Cotinine
05111500000099	10	0118	-1	0	1	1620	OK		Cotinine
05111500000100	10	0118	0	1	1	1790	OK		Cotinine
05111500000101	10	0118	1	2	1	1830	OK		Cotinine
05111500000102	10	0118	2	3	1	1550	OK		Cotinine
05111500000103	10	0118	3	4	1	1730	OK		Cotinine
05111500000104	10	0118	4	5	1	1550	OK		Cotinine
05111500000105	10	0118	5	6	1	1630	OK		Cotinine
05111500000106	12	0121	-1	0	1	588	OK		Cotinine
05111500000107	12	0121	0	1	1	864	OK		Cotinine
05111500000108	12	0121	1	2	1	499	OK		Cotinine
05111500000109	12	0121	2	3	1	535	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000110	12	0121	3	4	1	549	OK		Cotinine
05111500000111	12	0121	4	5	1	377	OK		Cotinine
051 1500000112	12	0 21	5	6	1	482	OK		Cotinine
05111500000113	2	0001	-1	0	1	608	OK		Cotinine
05111500000114	2	0001	0	1	1	751	OK		Cotinine
05111500000115	2	0001	1	2	1	813	OK		Cotinine
05111500000116	2	0001	2	3	1	1060	OK		Cotinine
05111500000117	2	0001	3	4	1	1230	OK		Cotinine
05111500000118	2	0001	4	5	1	1270	OK		Cotinine
05111500000119	2	0001	5	6	1	1430	OK		Cotinine
05111500000120	2	0004	-1	0	1	1090	OK		Cotinine
05111500000121	2	0004	0	1	1	1260	OK		Cotinine
05111500000122	2	0004	1	2	1	1280	OK		Cotinine
05111500000123	2	0004	2	3	1	1250	OK		Cotinine
05111500000124	2	0004	3	4	1	1500	OK		Cotinine
05111500000125	2	0004	4	5	1	1410	OK		Cotinine
05111500000126	2	0004	5	6	1	977	OK		Cotinine
05111500000127	2	0008	-1	0	1	1740	OK		Cotinine
05111500000128	2	0008	0	1	1	1700	OK		Cotinine
05111500000129	2	0008	1	2	1	1720	OK		Cotinine
05111500000130	2	0008	2	3	1	1630	OK		Cotinine
05111500000131	2	0008	3	4	1	2030	OK		Cotinine
05111500000132	2	0008	4	5	1	2470	OK		Cotinine
05111500000133	2	0008	5	6	1	1740	OK		Cotinine
05111500000134	2	0011	-1	0	1	800	OK		Cotinine
05111500000135	2	0011	0	1	1	1110	OK		Cotinine
05111500000136	2	0011	1	2	1	1040	OK		Cotinine
05111500000137	2	0011	2	3	1	923	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000138	2	0011	3	4	1	986	OK		Cotinine
05111500000139	2	0011	4	5	1	1110	OK		Cotinine
0511500000140	2	0011	5	6	1	1050	OK		Cotinine
05111500000141	2	0014	-1	0	1	1230	OK		Cotinine
05111500000142	2	0014	0	1	1	1110	OK		Cotinine
05111500000143	2	0014	1	2	1	1150	OK		Cotinine
05111500000144	2	0014	2	3	1	1140	OK		Cotinine
05111500000145	2	0014	3	4	1	1160	OK		Cotinine
05111500000146	2	0014	4	5	1	1170	OK		Cotinine
05111500000147	2	0014	5	6	1	1230	OK		Cotinine
05111500000148	2	0016	-1	0	1	937	OK		Cotinine
05111500000149	2	0016	0	1	1	581	OK		Cotinine
05111500000150	2	0016	1	2	1	641	OK		Cotinine
05111500000151	2	0016	2	3	1	990	OK		Cotinine
05111500000152	2	0016	3	4	1	1550	OK		Cotinine
05111500000153	2	0016	4	5	1	1960	OK		Cotinine
05111500000154	2	0016	5	6	1	1960	OK		Cotinine
05111500000155	2	0020	-1	0	1	1200	OK		Cotinine
05111500000156	2	0020	0	1	1	1200	OK		Cotinine
05111500000157	2	0020	1	2	1	1050	OK		Cotinine
05111500000158	2	0020	2	3	1	1480	OK		Cotinine
05111500000159	2	0020	3	4	1	1430	OK		Cotinine
05111500000160	2	0020	4	5	1	1620	OK		Cotinine
05111500000161	2	0020	5	6	1	726	OK		Cotinine
05111500000162	2	0021	-1	0	1	1630	OK		Cotinine
05111500000163	2	0021	0	1	1	1750	OK		Cotinine
05111500000164	2	0021	1	2	1	1690	OK		Cotinine
05111500000165	2	0021	2	3	1	1630	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000166	2	0021	3	4	1	1350	OK		Cotinine
05111500000167	2	0021	4	5	1	1270	OK		Cotinine
0511500000168	2	0021	5	6	1	1520	OK		Cotinine
05111500000169	2	0022	-1	0	1	1890	OK		Cotinine
05111500000170	2	0022	0	1	1	1830	OK		Cotinine
05111500000171	2	0022	1	2	1	1210	OK		Cotinine
05111500000172	2	0022	2	3	1	1020	OK		Cotinine
05111500000173	2	0022	3	4	1	1590	OK		Cotinine
05111500000174	2	0022	4	5	1	1570	OK		Cotinine
05111500000175	2	0022	5	6	1	2010	OK		Cotinine
05111500000176	4	0023	-1	0	1	879	OK		Cotinine
05111500000177	4	0023	0	1	1	827	OK		Cotinine
05111500000178	4	0023	1	2	1	535	OK		Cotinine
05111500000179	4	0023	2	3	1	338	OK		Cotinine
05111500000180	4	0023	3	4	1	531	OK		Cotinine
05111500000181	4	0023	4	5	1	865	OK		Cotinine
05111500000182	4	0023	5	6	1	831	OK		Cotinine
05111500000183	4	0030	-1	0	1	644	OK		Cotinine
05111500000184	4	0030	0	1	1	657	OK		Cotinine
05111500000185	4	0030	1	2	1	503	OK		Cotinine
05111500000186	4	0030	2	3	1	352	OK		Cotinine
05111500000187	4	0030	3	4	1	472	OK		Cotinine
05111500000188	4	0030	4	5	1	913	OK		Cotinine
05111500000189	4	0030	5	6	1	693	OK		Cotinine
05111500000190	4	0031	-1	0	1	1260	OK		Cotinine
05111500000191	4	0031	0	1	1	1540	OK		Cotinine
05111500000192	4	0031	1	2	1	1410	OK		Cotinine
05111500000193	4	0031	2	3	1	1430	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000194	4	0031	3	4	1	1310	OK		Cotinine
05111500000195	4	0031	4	5	1	1220	OK		Cotinine
0511500000196	4	0031	5	6	1	1290	OK		Cotinine
05111500000197	4	0034	-1	0	1	1130	OK		Cotinine
05111500000198	4	0034	0	1	1	1050	OK		Cotinine
05111500000199	4	0034	1	2	1	1070	OK		Cotinine
05111500000200	4	0034	2	3	1	1150	OK		Cotinine
05111500000201	4	0034	3	4	1	1380	OK		Cotinine
05111500000202	4	0034	4	5	1	1510	OK		Cotinine
05111500000203	4	0034	5	6	1	719	OK		Cotinine
05111500000204	4	0038	-1	0	1	1850	OK		Cotinine
05111500000205	4	0038	0	1	1	1710	OK		Cotinine
05111500000206	4	0038	1	2	1	1730	OK		Cotinine
05111500000207	4	0038	2	3	1	1360	OK		Cotinine
05111500000208	4	0038	3	4	1	1790	OK		Cotinine
05111500000209	4	0038	4	5	1	1590	OK		Cotinine
05111500000210	4	0038	5	6	1	1750	OK		Cotinine
05111500000211	6	0039	-1	0	1	634	OK		Cotinine
05111500000212	6	0039	0	1	1	864	OK		Cotinine
05111500000213	6	0039	1	2	1	1260	OK		Cotinine
05111500000214	6	0039	2	3	1	550	OK		Cotinine
05111500000215	6	0039	3	4	1	848	OK		Cotinine
05111500000216	6	0039	4	5	1	1050	OK		Cotinine
05111500000217	6	0039	5	6	1	719	OK		Cotinine
05111500000218	6	0044	-1	0	1	892	OK		Cotinine
05111500000219	6	0044	0	1	1	869	OK		Cotinine
05111500000220	6	0044	1	2	1	895	OK		Cotinine
05111500000221	6	0044	2	3	1	600	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000222	6	0044	3	4	1	429	OK		Cotinine
05111500000223	6	0044	4	5	1	482	OK		Cotinine
0511500000224	6	0044	5	6	1	479	OK		Cotinine
05111500000225	6	0057	-1	0	1	1150	OK		Cotinine
05111500000226	6	0057	0	1	1	1350	OK		Cotinine
05111500000227	6	0057	1	2	1	1600	OK		Cotinine
05111500000228	6	0057	2	3	1	1280	OK		Cotinine
05111500000229	6	0057	3	4	1	1500	OK		Cotinine
05111500000230	6	0057	4	5	1	1490	OK		Cotinine
05111500000231	6	0057	5	6	1	1320	OK		Cotinine
05111500000232	6	0060	-1	0	1	1750	OK		Cotinine
05111500000233	6	0060	0	1	1	1330	OK		Cotinine
05111500000234	6	0060	1	2	1	1520	OK		Cotinine
05111500000235	6	0060	2	3	1	1670	OK		Cotinine
05111500000236	6	0060	3	4	1	1850	OK		Cotinine
05111500000237	6	0060	4	5	1	1970	OK		Cotinine
05111500000238	6	0060	5	6	1	1940	OK		Cotinine
05111500000239	6	0066	-1	0	1	763	OK		Cotinine
05111500000240	6	0066	0	1	1	1030	OK		Cotinine
05111500000241	6	0066	1	2	1	746	OK		Cotinine
05111500000242	6	0066	2	3	1	931	OK		Cotinine
05111500000243	6	0066	3	4	1	1150	OK		Cotinine
05111500000244	6	0066	4	5	1	900	OK		Cotinine
05111500000245	6	0066	5	6	1	715	OK		Cotinine
05111500000246	8	0069	-1	0	1	1150	OK		Cotinine
05111500000247	8	0069	0	1	1	1220	OK		Cotinine
05111500000248	8	0069	1	2	1	1460	OK		Cotinine
05111500000249	8	0069	2	3	1	1230	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000250	8	0069	3	4	1	1620	OK		Cotinine
05111500000251	8	0069	4	5	1	1520	OK		Cotinine
0511500000252	8	0069	5	6	1	1190	OK		Cotinine
05111500000253	8	0074	-1	0	1	1360	OK		Cotinine
05111500000254	8	0074	0	1	1	1270	OK		Cotinine
05111500000255	8	0074	1	2	1	1300	OK		Cotinine
05111500000256	8	0074	2	3	1	1190	OK		Cotinine
05111500000257	8	0074	3	4	1	1480	OK		Cotinine
05111500000258	8	0074	4	5	1	1050	OK		Cotinine
05111500000259	8	0074	5	6	1	1000	OK		Cotinine
05111500000260	8	0083	-1	0	1	1060	OK		Cotinine
05111500000261	8	0083	0	1	1	1230	OK		Cotinine
05111500000262	8	0083	1	2	1	1240	OK		Cotinine
05111500000263	8	0083	2	3	1	1190	OK		Cotinine
05111500000264	8	0083	3	4	1	1460	OK		Cotinine
05111500000265	8	0083	4	5	1	1450	OK		Cotinine
05111500000266	8	0083	5	6	1	1380	OK		Cotinine
05111500000267	8	0085	-1	0	1	391	OK		Cotinine
05111500000268	8	0085	0	1	1	467	OK		Cotinine
05111500000269	8	0085	1	2	1	325	OK		Cotinine
05111500000270	8	0085	2	3	1	267	OK		Cotinine
05111500000274	8	0088	-1	0	1	843	OK		Cotinine
05111500000275	8	0088	0	1	1	902	OK		Cotinine
05111500000276	8	0088	1	2	1	769	OK		Cotinine
05111500000277	8	0088	2	3	1	485	OK		Cotinine
05111500000278	8	0088	3	4	1	420	OK		Cotinine
05111500000279	8	0088	4	5	1	508	OK		Cotinine
05111500000280	8	0088	5	6	1	627	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000281	10	0090	-1	0	1	571	OK		Cotinine
05111500000282	10	0090	0	1	1	457	OK		Cotinine
0511500000283	10	0090	1	2	1	483	OK		Cotinine
05111500000284	10	0090	2	3	1	385	OK		Cotinine
05111500000285	10	0090	3	4	1	385	OK		Cotinine
05111500000286	10	0090	4	5	1	318	OK		Cotinine
05111500000287	10	0090	5	6	1	427	OK		Cotinine
05111500000288	10	0093	-1	0	1	1170	OK		Cotinine
05111500000289	10	0093	0	1	1	1260	OK		Cotinine
05111500000290	10	0093	1	2	1	1340	OK		Cotinine
05111500000291	10	0093	2	3	1	1390	OK		Cotinine
05111500000292	10	0093	3	4	1	1350	OK		Cotinine
05111500000293	10	0093	4	5	1	1420	OK		Cotinine
05111500000294	10	0093	5	6	1	1010	OK		Cotinine
05111500000295	10	0106	-1	0	1	836	OK		Cotinine
05111500000296	10	0106	0	1	1	913	OK		Cotinine
05111500000297	10	0106	1	2	1	804	OK		Cotinine
05111500000298	10	0106	2	3	1	596	OK		Cotinine
05111500000299	10	0106	3	4	1	734	OK		Cotinine
05111500000300	10	0106	4	5	1	581	OK		Cotinine
05111500000301	10	0106	5	6	1	610	OK		Cotinine
05111500000302	10	0107	-1	0	1	1190	OK		Cotinine
05111500000303	10	0107	0	1	1	781	OK		Cotinine
05111500000304	10	0107	1	2	1	780	OK		Cotinine
05111500000305	10	0107	2	3	1	684	OK		Cotinine
05111500000306	10	0107	3	4	1	926	OK		Cotinine
05111500000307	10	0107	4	5	1	834	OK		Cotinine
05111500000308	10	0107	5	6	1	792	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000309	10	0110	-1	0	1	1200	OK		Cotinine
05111500000310	10	0110	0	1	1	1570	OK		Cotinine
05115000000311	10	0110	1	2	1	1230	OK		Cotinine
05111500000312	10	0110	2	3	1	1280	OK		Cotinine
05111500000313	10	0110	3	4	1	1140	OK		Cotinine
05111500000314	10	0110	4	5	1	953	OK		Cotinine
05111500000315	10	0110	5	6	1	1160	OK		Cotinine
05111500000316	10	0112	-1	0	1	1180	OK		Cotinine
05111500000317	10	0112	0	1	1	944	OK		Cotinine
05111500000318	10	0112	1	2	1	1030	OK		Cotinine
05111500000319	10	0112	2	3	1	1000	OK		Cotinine
05111500000320	10	0112	3	4	1	1180	OK		Cotinine
05111500000321	10	0112	4	5	1	1120	OK		Cotinine
05111500000322	10	0112	5	6	1	1270	OK		Cotinine
05111500000323	12	0122	-1	0	1	1370	OK		Cotinine
05111500000324	12	0122	0	1	1	1030	OK		Cotinine
05111500000325	12	0122	1	2	1	954	OK		Cotinine
05111500000326	12	0122	2	3	1	1540	OK		Cotinine
05111500000327	12	0122	3	4	1	1600	OK		Cotinine
05111500000328	12	0122	4	5	1	1510	OK		Cotinine
05111500000329	12	0122	5	6	1	960	OK		Cotinine
05111500000337	12	0129	-1	0	1	1380	OK		Cotinine
05111500000338	12	0129	0	1	1	1610	OK		Cotinine
05111500000339	12	0129	1	2	1	1220	OK		Cotinine
05111500000340	12	0129	2	3	1	895	OK		Cotinine
05111500000341	12	0129	3	4	1	962	OK		Cotinine
05111500000342	12	0129	4	5	1	961	OK		Cotinine
05111500000343	12	0129	5	6	1	898	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000344	12	0130	-1	0	1	1840	OK		Cotinine
05111500000345	12	0130	0	1	1	1400	OK		Cotinine
0511500000346	12	0130	1	2	1	1410	OK		Cotinine
05111500000347	12	0130	2	3	1	1100	OK		Cotinine
05111500000348	12	0130	3	4	1	1430	OK		Cotinine
05111500000349	12	0130	4	5	1	1470	OK		Cotinine
05111500000350	12	0130	5	6	1	1150	OK		Cotinine
05111500000351	12	0134	-1	0	1	1020	OK		Cotinine
05111500000352	12	0134	0	1	1	936	OK		Cotinine
05111500000353	12	0134	1	2	1	1090	OK		Cotinine
05111500000354	12	0134	2	3	1	964	OK		Cotinine
05111500000355	12	0134	3	4	1	1490	OK		Cotinine
05111500000356	12	0134	4	5	1	1360	OK		Cotinine
05111500000357	12	0134	5	6	1	1470	OK		Cotinine
05111500000358	12	0136	-1	0	1	2030	OK		Cotinine
05111500000359	12	0136	0	1	1	1930	OK		Cotinine
05111500000360	12	0136	1	2	1	2180	OK		Cotinine
05111500000361	12	0136	2	3	1	1500	OK		Cotinine
05111500000362	12	0136	3	4	1	2030	OK		Cotinine
05111500000363	12	0136	4	5	1	1210	OK		Cotinine
05111500000364	12	0136	5	6	1	1160	OK		Cotinine
05111500000365	14	0147	-1	0	1	715	OK		Cotinine
05111500000366	14	0147	0	1	1	756	OK		Cotinine
05111500000367	14	0147	1	2	1	548	OK		Cotinine
05111500000368	14	0147	2	3	1	440	OK		Cotinine
05111500000369	14	0147	3	4	1	543	OK		Cotinine
05111500000370	14	0147	4	5	1	710	OK		Cotinine
05111500000371	14	0147	5	6	1	580	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000372	14	0149	-1	0	1	611	OK		Cotinine
05111500000373	14	0149	0	1	1	521	OK		Cotinine
0511500000374	14	0149	1	2	1	620	OK		Cotinine
05111500000375	14	0149	2	3	1	785	OK		Cotinine
05111500000376	14	0149	3	4	1	772	OK		Cotinine
05111500000377	14	0149	4	5	1	545	OK		Cotinine
05111500000378	14	0149	5	6	1	688	OK		Cotinine
05111500000379	14	0153	-1	0	1	971	OK		Cotinine
05111500000380	14	0153	0	1	1	1160	OK		Cotinine
05111500000381	14	0153	1	2	1	971	OK		Cotinine
05111500000382	14	0153	2	3	1	1020	OK		Cotinine
05111500000383	14	0153	3	4	1	1500	OK		Cotinine
05111500000384	14	0153	4	5	1	908	OK		Cotinine
05111500000385	14	0153	5	6	1	609	OK		Cotinine
05111500000386	14	0155	-1	0	1	446	OK		Cotinine
05111500000387	14	0155	0	1	1	521	OK		Cotinine
05111500000388	14	0155	1	2	1	435	OK		Cotinine
05111500000389	14	0155	2	3	1	435	OK		Cotinine
05111500000390	14	0155	3	4	1	361	OK		Cotinine
05111500000391	14	0155	4	5	1	302	OK		Cotinine
05111500000392	14	0155	5	6	1	285	OK		Cotinine
05111500000393	14	0162	-1	0	1	743	OK		Cotinine
05111500000394	14	0162	0	1	1	918	OK		Cotinine
05111500000395	14	0162	1	2	1	955	OK		Cotinine
05111500000396	14	0162	2	3	1	1390	OK		Cotinine
05111500000397	14	0162	3	4	1	1950	OK		Cotinine
05111500000398	14	0162	4	5	1	1570	OK		Cotinine
05111500000399	14	0162	5	6	1	1590	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000400	16	0167	-1	0	1	1070	OK		Cotinine
05111500000401	16	0167	0	1	1	1080	OK		Cotinine
0511500000402	16	0167	1	2	1	1390	OK		Cotinine
05111500000403	16	0167	2	3	1	1510	OK		Cotinine
05111500000404	16	0167	3	4	1	1710	OK		Cotinine
05111500000405	16	0167	4	5	1	1370	OK		Cotinine
05111500000406	16	0167	5	6	1	1480	OK		Cotinine
05111500000407	16	0170	-1	0	1	628	OK		Cotinine
05111500000408	16	0170	0	1	1	719	OK		Cotinine
05111500000409	16	0170	1	2	1	535	OK		Cotinine
05111500000410	16	0170	2	3	1	574	OK		Cotinine
05111500000411	16	0170	3	4	1	542	OK		Cotinine
05111500000412	16	0170	4	5	1	576	OK		Cotinine
05111500000413	16	0170	5	6	1	353	OK		Cotinine
05111500000414	16	0177	-1	0	1	1510	OK		Cotinine
05111500000415	16	0177	0	1	1	1510	OK		Cotinine
05111500000416	16	0177	1	2	1	1160	OK		Cotinine
05111500000417	16	0177	2	3	1	1280	OK		Cotinine
05111500000418	16	0177	3	4	1	1500	OK		Cotinine
05111500000419	16	0177	4	5	1	1210	OK		Cotinine
05111500000420	16	0177	5	6	1	1470	OK		Cotinine
05111500000421	16	0181	-1	0	1	2350	OK		Cotinine
05111500000422	16	0181	0	1	1	2910	OK		Cotinine
05111500000423	16	0181	1	2	1	2660	OK		Cotinine
05111500000424	16	0181	2	3	1	2090	OK		Cotinine
05111500000425	16	0181	3	4	1	3110	OK		Cotinine
05111500000426	16	0181	4	5	1	2630	OK		Cotinine
05111500000427	16	0181	5	6	1	2300	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000428	16	0183	-1	0	1	745	OK		Cotinine
05111500000429	16	0183	0	1	1	653	OK		Cotinine
0511500000430	16	0183	1	2	1	453	OK		Cotinine
05111500000431	16	0183	2	3	1	310	OK		Cotinine
05111500000432	16	0183	3	4	1	324	OK		Cotinine
05111500000433	16	0183	4	5	1	294	OK		Cotinine
05111500000434	16	0183	5	6	1	356	OK		Cotinine
05111500000435	16	0189	-1	0	1	726	OK		Cotinine
05111500000436	16	0189	0	1	1	786	OK		Cotinine
05111500000437	16	0189	1	2	1	537	OK		Cotinine
05111500000438	16	0189	2	3	1	640	OK		Cotinine
05111500000439	16	0189	3	4	1	724	OK		Cotinine
05111500000440	16	0189	4	5	1	770	OK		Cotinine
05111500000441	16	0189	5	6	1	805	OK		Cotinine
05111500000442	16	0190	-1	0	1	1330	OK		Cotinine
05111500000443	16	0190	0	1	1	1330	OK		Cotinine
05111500000444	16	0190	1	2	1	1790	OK		Cotinine
05111500000445	16	0190	2	3	1	1330	OK		Cotinine
05111500000446	16	0190	3	4	1	1530	OK		Cotinine
05111500000447	16	0190	4	5	1	1190	OK		Cotinine
05111500000448	16	0190	5	6	1	1360	OK		Cotinine
05111500000449	18	0192	-1	0	1	2330	OK		Cotinine
05111500000450	18	0192	0	1	1	2250	OK		Cotinine
05111500000451	18	0192	1	2	1	1670	OK		Cotinine
05111500000452	18	0192	2	3	1	2120	OK		Cotinine
05111500000453	18	0192	3	4	1	2210	OK		Cotinine
05111500000454	18	0192	4	5	1	1520	OK		Cotinine
05111500000455	18	0192	5	6	1	2210	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000456	18	0193	-1	0	1	1080	OK		Cotinine
05111500000457	18	0193	0	1	1	1550	OK		Cotinine
0511500000458	18	0193	1	2	1	1240	OK		Cotinine
05111500000459	18	0193	2	3	1	1130	OK		Cotinine
05111500000460	18	0193	3	4	1	1410	OK		Cotinine
05111500000461	18	0193	4	5	1	1180	OK		Cotinine
05111500000462	18	0193	5	6	1	1160	OK		Cotinine
05111500000463	18	0195	-1	0	1	346	OK		Cotinine
05111500000464	18	0195	0	1	1	496	OK		Cotinine
05111500000465	18	0195	1	2	1	217	OK		Cotinine
05111500000466	18	0195	2	3	1	132	OK		Cotinine
05111500000467	18	0195	3	4	1	151	OK		Cotinine
05111500000468	18	0195	4	5	1	399	OK		Cotinine
05111500000469	18	0195	5	6	1	240	OK		Cotinine
05111500000470	18	0196	-1	0	1	286	OK		Cotinine
05111500000471	18	0196	0	1	1	314	OK		Cotinine
05111500000472	18	0196	1	2	1	238	OK		Cotinine
05111500000473	18	0196	2	3	1	204	OK		Cotinine
05111500000474	18	0196	3	4	1	268	OK		Cotinine
05111500000475	18	0196	4	5	1	404	OK		Cotinine
05111500000476	18	0196	5	6	1	295	OK		Cotinine
05111500000477	18	0202	-1	0	1	1440	OK		Cotinine
05111500000478	18	0202	0	1	1	1890	OK		Cotinine
05111500000479	18	0202	1	2	1	1810	OK		Cotinine
05111500000480	18	0202	2	3	1	2130	OK		Cotinine
05111500000481	18	0202	3	4	1	2170	OK		Cotinine
05111500000482	18	0202	4	5	1	2020	OK		Cotinine
05111500000483	18	0202	5	6	1	1310	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000484	18	0206	-1	0	1	1310	OK		Cotinine
05111500000485	18	0206	0	1	1	1630	OK		Cotinine
0511500000486	18	0206	1	2	1	1360	OK		Cotinine
05111500000487	18	0206	2	3	1	1330	OK		Cotinine
05111500000488	18	0206	3	4	1	1310	OK		Cotinine
05111500000489	18	0206	4	5	1	1240	OK		Cotinine
05111500000490	18	0206	5	6	1	1400	OK		Cotinine
05111500000491	20	0210	-1	0	1	1640	OK		Cotinine
05111500000492	20	0210	0	1	1	1570	OK		Cotinine
05111500000493	20	0210	1	2	1	1320	OK		Cotinine
05111500000494	20	0210	2	3	1	1310	OK		Cotinine
05111500000495	20	0210	3	4	1	1280	OK		Cotinine
05111500000496	20	0210	4	5	1	1410	OK		Cotinine
05111500000497	20	0210	5	6	1	683	OK		Cotinine
05111500000498	20	0216	-1	0	1	1580	OK		Cotinine
05111500000499	20	0216	0	1	1	1800	OK		Cotinine
05111500000500	20	0216	1	2	1	1290	OK		Cotinine
05111500000501	20	0216	2	3	1	1040	OK		Cotinine
05111500000502	20	0216	3	4	1	1210	OK		Cotinine
05111500000503	20	0216	4	5	1	1140	OK		Cotinine
05111500000504	20	0216	5	6	1	913	OK		Cotinine
05111500000505	20	0220	-1	0	1	769	OK		Cotinine
05111500000506	20	0220	0	1	1	952	OK		Cotinine
05111500000507	20	0220	1	2	1	561	OK		Cotinine
05111500000508	20	0220	2	3	1	321	OK		Cotinine
05111500000509	20	0220	3	4	1	328	OK		Cotinine
05111500000510	20	0220	4	5	1	295	OK		Cotinine
05111500000511	20	0220	5	6	1	191	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000512	20	0228	-1	0	1	1360	OK		Cotinine
05111500000513	20	0228	0	1	1	1830	OK		Cotinine
0511500000514	20	0228	1	2	1	1580	OK		Cotinine
05111500000515	20	0228	2	3	1	1500	OK		Cotinine
05111500000516	20	0228	3	4	1	1950	OK		Cotinine
05111500000517	20	0228	4	5	1	2090	OK		Cotinine
05111500000518	20	0228	5	6	1	1300	OK		Cotinine
05111500000519	20	0232	-1	0	1	727	OK		Cotinine
05111500000520	20	0232	0	1	1	770	OK		Cotinine
05111500000521	20	0232	1	2	1	711	OK		Cotinine
05111500000522	20	0232	2	3	1	812	OK		Cotinine
05111500000523	20	0232	3	4	1	1040	OK		Cotinine
05111500000524	20	0232	4	5	1	900	OK		Cotinine
05111500000525	20	0232	5	6	1	728	OK		Cotinine
05111500000526	20	0234	-1	0	1	1040	OK		Cotinine
05111500000527	20	0234	0	1	1	1400	OK		Cotinine
05111500000528	20	0234	1	2	1	1140	OK		Cotinine
05111500000529	20	0234	2	3	1	1270	OK		Cotinine
05111500000530	20	0234	3	4	1	1590	OK		Cotinine
05111500000531	20	0234	4	5	1	1390	OK		Cotinine
05111500000532	20	0234	5	6	1	1110	OK		Cotinine
05111500000533	22	0241	-1	0	1	1260	OK		Cotinine
05111500000534	22	0241	0	1	1	1550	OK		Cotinine
05111500000535	22	0241	1	2	1	1320	OK		Cotinine
05111500000536	22	0241	2	3	1	1390	OK		Cotinine
05111500000537	22	0241	3	4	1	1770	OK		Cotinine
05111500000538	22	0241	4	5	1	1660	OK		Cotinine
05111500000539	22	0241	5	6	1	1480	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000540	22	0244	-1	0	1	1060	OK		Cotinine
05111500000541	22	0244	0	1	1	888	OK		Cotinine
0511500000542	22	0244	1	2	1	969	OK		Cotinine
05111500000543	22	0244	2	3	1	1120	OK		Cotinine
05111500000544	22	0244	3	4	1	1250	OK		Cotinine
05111500000545	22	0244	4	5	1	1180	OK		Cotinine
05111500000546	22	0244	5	6	1	938	OK		Cotinine
05111500000547	22	0255	-1	0	1	1060	OK		Cotinine
05111500000548	22	0255	0	1	1	1430	OK		Cotinine
05111500000549	22	0255	1	2	1	1080	OK		Cotinine
05111500000550	22	0255	2	3	1	1500	OK		Cotinine
05111500000551	22	0255	3	4	1	1870	OK		Cotinine
05111500000552	22	0255	4	5	1	1690	OK		Cotinine
05111500000553	22	0255	5	6	1	1660	OK		Cotinine
05111500000554	22	0256	-1	0	1	1570	OK		Cotinine
05111500000555	22	0256	0	1	1	1330	OK		Cotinine
05111500000556	22	0256	1	2	1	1690	OK		Cotinine
05111500000557	22	0256	2	3	1	1320	OK		Cotinine
05111500000558	22	0256	3	4	1	1580	OK		Cotinine
05111500000559	22	0256	4	5	1	1440	OK		Cotinine
05111500000560	22	0256	5	6	1	2100	OK		Cotinine
05111500000561	14	0156	-1	0	1	1460	OK		Cotinine
05111500000562	14	0156	0	1	1	1850	OK		Cotinine
05111500000563	14	0156	1	2	1	1940	OK		Cotinine
05111500000564	14	0156	2	3	1	1990	OK		Cotinine
05111500000565	14	0156	3	4	1	1880	OK		Cotinine
05111500000566	14	0156	4	5	1	1990	OK		Cotinine
05111500000567	14	0156	5	6	1	1690	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000568	12	0126	-1	0	1	572	OK		Cotinine
05111500000569	12	0126	0	1	1	561	OK		Cotinine
0511500000570	12	0126	1	2	1	644	OK		Cotinine
05111500000571	12	0126	2	3	1	499	OK		Cotinine
05111500000572	12	0126	3	4	1	630	OK		Cotinine
05111500000573	12	0126	4	5	1	512	OK		Cotinine
05111500000574	12	0126	5	6	1	482	OK		Cotinine
05111500000575	12	0139	-1	0	1	1280	OK		Cotinine
05111500000576	12	0139	0	1	1	1480	OK		Cotinine
05111500000577	12	0139	1	2	1	1130	OK		Cotinine
05111500000578	12	0139	2	3	1	825	OK		Cotinine
05111500000579	12	0139	3	4	1	968	OK		Cotinine
05111500000580	12	0139	4	5	1	905	OK		Cotinine
05111500000581	12	0139	5	6	1	1100	OK		Cotinine
05111500000582	12	0140	-1	0	1	746	OK		Cotinine
05111500000583	12	0140	0	1	1	721	OK		Cotinine
05111500000584	12	0140	1	2	1	761	OK		Cotinine
05111500000585	12	0140	2	3	1	726	OK		Cotinine
05111500000586	12	0140	3	4	1	776	OK		Cotinine
05111500000587	12	0140	4	5	1	569	OK		Cotinine
05111500000588	12	0140	5	6	1	656	OK		Cotinine
05111500000589	14	0148	-1	0	1	2690	OK		Cotinine
05111500000590	14	0148	0	1	1	2410	OK		Cotinine
05111500000591	14	0148	1	2	1	2840	OK		Cotinine
05111500000592	14	0148	2	3	1	2170	OK		Cotinine
05111500000593	14	0148	3	4	1	2300	OK		Cotinine
05111500000594	14	0148	4	5	1	2130	OK		Cotinine
05111500000595	14	0148	5	6	1	1930	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000596	14	0152	-1	0	1	373	OK		Cotinine
05111500000597	14	0152	0	1	1	457	OK		Cotinine
0511500000598	14	0152	1	2	1	644	OK		Cotinine
05111500000599	14	0152	2	3	1	667	OK		Cotinine
05111500000600	14	0152	3	4	1	595	OK		Cotinine
05111500000601	14	0152	4	5	1	481	OK		Cotinine
05111500000602	14	0152	5	6	1	584	OK		Cotinine
05111500000603	14	0160	-1	0	1	1370	OK		Cotinine
05111500000604	14	0160	0	1	1	1420	OK		Cotinine
05111500000605	14	0160	1	2	1	1360	OK		Cotinine
05111500000606	14	0160	2	3	1	674	OK		Cotinine
05111500000607	14	0160	3	4	1	1760	OK		Cotinine
05111500000608	14	0160	4	5	1	1290	OK		Cotinine
05111500000609	14	0160	5	6	1	858	OK		Cotinine
05111500000610	16	0187	-1	0	1	1470	OK		Cotinine
05111500000611	16	0187	0	1	1	1270	OK		Cotinine
05111500000612	16	0187	1	2	1	1280	OK		Cotinine
05111500000613	16	0187	2	3	1	1460	OK		Cotinine
05111500000614	16	0187	3	4	1	1500	OK		Cotinine
05111500000615	16	0187	4	5	1	1100	OK		Cotinine
05111500000616	16	0187	5	6	1	865	OK		Cotinine
05111500000617	16	0191	-1	0	1	636	OK		Cotinine
05111500000618	16	0191	0	1	1	565	OK		Cotinine
05111500000619	16	0191	1	2	1	757	OK		Cotinine
05111500000620	16	0191	2	3	1	634	OK		Cotinine
05111500000621	16	0191	3	4	1	772	OK		Cotinine
05111500000622	16	0191	4	5	1	638	OK		Cotinine
05111500000623	16	0191	5	6	1	516	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000694	18	0198	-1	0	1	1120	OK		Cotinine
05111500000695	18	0198	0	1	1	1820	OK		Cotinine
05115000000696	18	0198	1	2	1	1750	OK		Cotinine
05111500000697	18	0198	2	3	1	1920	OK		Cotinine
05111500000698	18	0198	3	4	1	1400	OK		Cotinine
05111500000699	18	0198	4	5	1	2110	OK		Cotinine
05111500000700	18	0198	5	6	1	1690	OK		Cotinine
05111500000701	18	0200	-1	0	1	802	OK		Cotinine
05111500000702	18	0200	0	1	1	1060	OK		Cotinine
05111500000703	18	0200	1	2	1	1010	OK		Cotinine
05111500000704	18	0200	2	3	1	875	OK		Cotinine
05111500000705	18	0200	3	4	1	995	OK		Cotinine
05111500000706	18	0200	4	5	1	1060	OK		Cotinine
05111500000707	18	0200	5	6	1	673	OK		Cotinine
05111500000708	18	0204	-1	0	1	433	OK		Cotinine
05111500000709	18	0204	0	1	1	687	OK		Cotinine
05111500000710	18	0204	1	2	1	791	OK		Cotinine
05111500000711	18	0204	2	3	1	618	OK		Cotinine
05111500000712	18	0204	3	4	1	678	OK		Cotinine
05111500000713	18	0204	4	5	1	779	OK		Cotinine
05111500000714	18	0204	5	6	1	555	OK		Cotinine
05111500000715	20	0224	-1	0	1	833	OK		Cotinine
05111500000716	20	0224	0	1	1	1060	OK		Cotinine
05111500000717	20	0224	1	2	1	939	OK		Cotinine
05111500000718	20	0224	2	3	1	913	OK		Cotinine
05111500000719	20	0224	3	4	1	976	OK		Cotinine
05111500000720	20	0224	4	5	1	1110	OK		Cotinine
05111500000721	20	0224	5	6	1	892	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000722	20	0229	-1	0	1	395	OK		Cotinine
05111500000723	20	0229	0	1	1	411	OK		Cotinine
0511500000724	20	0229	1	2	1	650	OK		Cotinine
05111500000725	20	0229	2	3	1	531	OK		Cotinine
05111500000726	20	0229	3	4	1	614	OK		Cotinine
05111500000727	20	0229	4	5	1	617	OK		Cotinine
05111500000728	20	0229	5	6	1	424	OK		Cotinine
05111500000729	20	0230	-1	0	1	749	OK		Cotinine
05111500000730	20	0230	0	1	1	1110	OK		Cotinine
05111500000731	20	0230	1	2	1	1010	OK		Cotinine
05111500000732	20	0230	2	3	1	760	OK		Cotinine
05111500000733	20	0230	3	4	1	788	OK		Cotinine
05111500000734	20	0230	4	5	1	843	OK		Cotinine
05111500000735	20	0230	5	6	1	711	OK		Cotinine
05111500000736	22	0262	-1	0	1	673	OK		Cotinine
05111500000737	22	0262	0	1	1	1000	OK		Cotinine
05111500000738	22	0262	1	2	1	916	OK		Cotinine
05111500000739	22	0262	2	3	1	787	OK		Cotinine
05111500000740	22	0262	3	4	1	1070	OK		Cotinine
05111500000741	22	0262	4	5	1	1090	OK		Cotinine
05111500000742	22	0262	5	6	1	485	OK		Cotinine
05111500000743	24	0278	-1	0	1	1310	OK		Cotinine
05111500000744	24	0278	0	1	1	1280	OK		Cotinine
05111500000745	24	0278	1	2	1	1310	OK		Cotinine
05111500000746	24	0278	2	3	1	1410	OK		Cotinine
05111500000747	24	0278	3	4	1	1410	OK		Cotinine
05111500000748	24	0278	4	5	1	1170	OK		Cotinine
05111500000749	24	0278	5	6	1	1020	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000750	24	0283	-1	0	1	829	OK		Cotinine
05111500000751	24	0283	0	1	1	892	OK		Cotinine
0511500000752	24	0283	1	2	1	873	OK		Cotinine
05111500000753	24	0283	2	3	1	769	OK		Cotinine
05111500000754	24	0283	3	4	1	822	OK		Cotinine
05111500000755	24	0283	4	5	1	728	OK		Cotinine
05111500000756	24	0283	5	6	1	657	OK		Cotinine
05111500000757	24	0285	-1	0	1	1450	OK		Cotinine
05111500000758	24	0285	0	1	1	1910	OK		Cotinine
05111500000759	24	0285	1	2	1	1950	OK		Cotinine
05111500000760	24	0285	2	3	1	2380	OK		Cotinine
05111500000761	24	0285	3	4	1	1940	OK		Cotinine
05111500000762	24	0285	4	5	1	1380	OK		Cotinine
05111500000763	24	0285	5	6	1	1780	OK		Cotinine
05111500000764	26	0298	-1	0	1	1140	OK		Cotinine
05111500000765	26	0298	0	1	1	1950	OK		Cotinine
05111500000766	26	0298	1	2	1	2000	OK		Cotinine
05111500000767	26	0298	2	3	1	1320	OK		Cotinine
05111500000768	26	0298	3	4	1	1300	OK		Cotinine
05111500000769	26	0298	4	5	1	1210	OK		Cotinine
05111500000770	26	0298	5	6	1	1840	OK		Cotinine
05111500000771	26	0313	-1	0	1	1090	OK		Cotinine
05111500000772	26	0313	0	1	1	1100	OK		Cotinine
05111500000773	26	0313	1	2	1	1530	OK		Cotinine
05111500000774	26	0313	2	3	1	1110	OK		Cotinine
05111500000775	26	0313	3	4	1	1240	OK		Cotinine
05111500000776	26	0313	4	5	1	1130	OK		Cotinine
05111500000777	26	0313	5	6	1	891	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500000778	26	0315	-1	0	1	1070	OK		Cotinine
05111500000779	26	0315	0	1	1	764	OK		Cotinine
0511500000780	26	0315	1	2	1	866	OK		Cotinine
05111500000781	26	0315	2	3	1	1040	OK		Cotinine
05111500000782	26	0315	3	4	1	1120	OK		Cotinine
05111500000783	26	0315	4	5	1	908	OK		Cotinine
05111500000784	26	0315	5	6	1	1140	OK		Cotinine
05111500000785	26	0318	-1	0	1	1420	OK		Cotinine
05111500000786	26	0318	0	1	1	1620	OK		Cotinine
05111500000787	26	0318	1	2	1	1810	OK		Cotinine
05111500000788	26	0318	2	3	1	1800	OK		Cotinine
05111500000789	26	0318	3	4	1	2040	OK		Cotinine
05111500000790	26	0318	4	5	1	1930	OK		Cotinine
05111500000791	26	0318	5	6	1	2500	OK		Cotinine
05111500000792	28	0322	-1	0	1	491	OK		Cotinine
05111500000793	28	0322	0	1	1	501	OK		Cotinine
05111500000794	28	0322	1	2	1	469	OK		Cotinine
05111500000795	28	0322	2	3	1	502	OK		Cotinine
05111500000796	28	0322	3	4	1	515	OK		Cotinine
05111500000797	28	0322	4	5	1	461	OK		Cotinine
05111500000798	28	0322	5	6	1	449	OK		Cotinine
05111500000799	28	0328	-1	0	1	494	OK		Cotinine
05111500000800	28	0328	0	1	1	689	OK		Cotinine
05111500000801	28	0328	1	2	1	569	OK		Cotinine
05111500000802	28	0328	2	3	1	563	OK		Cotinine
05111500000803	28	0328	3	4	1	525	OK		Cotinine
05111500000804	28	0328	4	5	1	408	OK		Cotinine
05111500000805	28	0328	5	6	1	486	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
0511150000898		0067	0	1	2		OK	Analysis not required	Cotinine
05111500001688	22	0264	-1	0	1	627	OK		Cotinine
051 1500001689	22	0264	0	1	1	553	OK		Cotinine
05111500001690	22	0264	1	2	1	857	OK		Cotinine
05111500001691	22	0264	2	3	1	1150	OK		Cotinine
05111500001692	22	0264	3	4	1	1380	OK		Cotinine
05111500001693	22	0264	4	5	1	669	OK		Cotinine
05111500001694	22	0264	5	6	1	241	OK		Cotinine
05111500001702	22	0272	-1	0	1	1630	OK		Cotinine
05111500001703	22	0272	0	1	1	1750	OK		Cotinine
05111500001704	22	0272	1	2	1	1660	OK		Cotinine
05111500001705	22	0272	2	3	1	2240	OK		Cotinine
05111500001706	22	0272	3	4	1	2590	OK		Cotinine
05111500001707	22	0272	4	5	1	1760	OK		Cotinine
05111500001708	22	0272	5	6	1	2160	OK		Cotinine
05111500001716	22	0276	-1	0	1	322	OK		Cotinine
05111500001717	22	0276	0	1	1	308	OK		Cotinine
05111500001718	22	0276	1	2	1	371	OK		Cotinine
05111500001719	22	0276	2	3	1	501	OK		Cotinine
05111500001720	22	0276	3	4	1	735	OK		Cotinine
05111500001721	22	0276	4	5	1	659	OK		Cotinine
05111500001722	22	0276	5	6	1	605	OK		Cotinine
05111500001730	22	0277	-1	0	1	1040	OK		Cotinine
05111500001731	22	0277	0	1	1	1150	OK		Cotinine
05111500001732	22	0277	1	2	1	1520	OK		Cotinine
05111500001733	22	0277	2	3	1	1630	OK		Cotinine
05111500001734	22	0277	3	4	1	1570	OK		Cotinine
05111500001735	22	0277	4	5	1	1370	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500001736	22	0277	5	6	1	1850	OK		Cotinine
05111500001744	24	0279	-1	0	1	1570	OK		Cotinine
0511500001745	24	0279	0	1	1	1300	OK		Cotinine
05111500001746	24	0279	1	2	1	1210	OK		Cotinine
05111500001747	24	0279	2	3	1	1130	OK		Cotinine
05111500001748	24	0279	3	4	1	1390	OK		Cotinine
05111500001749	24	0279	4	5	1	1080	OK		Cotinine
05111500001750	24	0279	5	6	1	1220	OK		Cotinine
05111500001758	24	0281	-1	0	1	1410	OK		Cotinine
05111500001759	24	0281	0	1	1	1330	OK		Cotinine
05111500001760	24	0281	1	2	1	1380	OK		Cotinine
05111500001761	24	0281	2	3	1	1400	OK		Cotinine
05111500001762	24	0281	3	4	1	1930	OK		Cotinine
05111500001763	24	0281	4	5	1	1520	OK		Cotinine
05111500001764	24	0281	5	6	1	2120	OK		Cotinine
05111500001772	24	0282	-1	0	1	1460	OK		Cotinine
05111500001773	24	0282	0	1	1	1690	OK		Cotinine
05111500001774	24	0282	1	2	1	1410	OK		Cotinine
05111500001775	24	0282	2	3	1	1700	OK		Cotinine
05111500001776	24	0282	3	4	1	1800	OK		Cotinine
05111500001777	24	0282	4	5	1	1610	OK		Cotinine
05111500001778	24	0282	5	6	1	1090	OK		Cotinine
05111500001786	24	0287	-1	0	1	1760	OK		Cotinine
05111500001787	24	0287	0	1	1	1380	OK		Cotinine
05111500001788	24	0287	1	2	1	1680	OK		Cotinine
05111500001789	24	0287	2	3	1	1570	OK		Cotinine
05111500001790	24	0287	3	4	1	1950	OK		Cotinine
05111500001791	24	0287	4	5	1	2010	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500001792	24	0287	5	6	1	2350	OK		Cotinine
05111500001800	24	0291	-1	0	1	1490	OK		Cotinine
0511500001801	24	0291	0	1	1	1390	OK		Cotinine
05111500001802	24	0291	1	2	1	1130	OK		Cotinine
05111500001803	24	0291	2	3	1	1610	OK		Cotinine
05111500001804	24	0291	3	4	1	1830	OK		Cotinine
05111500001805	24	0291	4	5	1	1930	OK		Cotinine
05111500001806	24	0291	5	6	1	1770	OK		Cotinine
05111500001814	24	0296	-1	0	1	954	OK		Cotinine
05111500001815	24	0296	0	1	1	1020	OK		Cotinine
05111500001816	24	0296	1	2	1	1100	OK		Cotinine
05111500001817	24	0296	2	3	1	1490	OK		Cotinine
05111500001818	24	0296	3	4	1	1270	OK		Cotinine
05111500001819	24	0296	4	5	1	1500	OK		Cotinine
05111500001820	24	0296	5	6	1	1250	OK		Cotinine
05111500001828	26	0300	-1	0	1	344	OK		Cotinine
05111500001829	26	0300	0	1	1	282	OK		Cotinine
05111500001830	26	0300	1	2	1	281	OK		Cotinine
05111500001831	26	0300	2	3	1	193	OK		Cotinine
05111500001832	26	0300	3	4	1	141	OK		Cotinine
05111500001833	26	0300	4	5	1	56.8	OK		Cotinine
05111500001834	26	0300	5	6	1	87.6	OK		Cotinine
05111500001842	26	0301	-1	0	1	733	OK		Cotinine
05111500001843	26	0301	0	1	1	1070	OK		Cotinine
05111500001844	26	0301	1	2	1	860	OK		Cotinine
05111500001845	26	0301	2	3	1	861	OK		Cotinine
05111500001846	26	0301	3	4	1	1280	OK		Cotinine
05111500001847	26	0301	4	5	1	1000	OK		Cotinine





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500001848	26	0301	5	6	1	1280	OK		Cotinine
05111500001856	26	0307	-1	0	1	1590	OK		Cotinine
051 1500001857	26	0307	0	1	1	1570	OK		Cotinine
05111500001858	26	0307	1	2	1	1580	OK		Cotinine
05111500001859	26	0307	2	3	1	1990	OK		Cotinine
05111500001860	26	0307	3	4	1	2290	OK		Cotinine
05111500001861	26	0307	4	5	1	1900	OK		Cotinine
05111500001862	26	0307	5	6	1	1760	OK		Cotinine
05111500001870	26	0308	-1	0	1	1770	OK		Cotinine
05111500001871	26	0308	0	1	1	2200	OK		Cotinine
05111500001872	26	0308	1	2	1	2060	OK		Cotinine
05111500001873	26	0308	2	3	1	2360	OK		Cotinine
05111500001874	26	0308	3	4	1	2300	OK		Cotinine
05111500001875	26	0308	4	5	1	2200	OK		Cotinine
05111500001876	26	0308	5	6	1	2760	OK		Cotinine
05111500001884	26	0316	-1	0	1	264	OK		Cotinine
05111500001885	26	0316	0	1	1	221	OK		Cotinine
05111500001886	26	0316	1	2	1	467	OK		Cotinine
05111500001887	26	0316	2	3	1	563	OK		Cotinine
05111500001888	26	0316	3	4	1	583	OK		Cotinine
05111500001889	26	0316	4	5	1	444	OK		Cotinine
05111500001890	26	0316	5	6	1	347	OK		Cotinine
05111500001898	28	0320	-1	0	1	1920	OK		Cotinine
05111500001899	28	0320	0	1	1	2220	OK		Cotinine
05111500001900	28	0320	1	2	1	1900	OK		Cotinine
05111500001901	28	0320	2	3	1	1700	OK		Cotinine
05111500001902	28	0320	3	4	1	1590	OK		Cotinine
05111500001903	28	0320	4	5	1	1840	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Split	Concentration (ng/mL)	Sample Condition	Sample Comments	Analyte
05111500001904	28	0320	5	6	1	2220	OK		Cotinine
05111500001912	28	0321	-1	0	1	1310	OK		Cotinine
0511500001913	28	0321	0	1	1	1130	OK		Cotinine
05111500001914	28	0321	1	2	1	1170	OK		Cotinine
05111500001915	28	0321	2	3	1	1500	OK		Cotinine
05111500001916	28	0321	3	4	1	1970	OK		Cotinine
05111500001917	28	0321	4	5	1	1920	OK		Cotinine
05111500001918	28	0321	5	6	1	2280	OK		Cotinine



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Table 22 Study Sample Concentrations for *trans*-3'-Hydroxycotinine

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000001	4	0025	-1	0	2230	1	OK		THC
05111500000002	4	0025	0	1	2560	1	OK		THC
05111500000003	4	0025	1	2	2460	1	OK		THC
05111500000004	4	0025	2	3	1820	1	OK		THC
05111500000005	4	0025	3	4	1630	1	OK		THC
05111500000006	4	0025	4	5	2750	1	OK		THC
05111500000007	4	0025	5	6	1250	1	OK		THC
05111500000008	28	0029	-1	0	5470	1	OK		THC
05111500000009	4	0029	0	1	1080	1	OK		THC
05111500000010	4	0029	1	2	2720	1	OK		THC
05111500000011	4	0029	2	3	2670	1	OK		THC
05111500000012	4	0029	3	4	2080	1	OK		THC
05111500000013	4	0029	4	5	3030	1	OK		THC
05111500000014	4	0029	5	6	1950	1	OK		THC
05111500000015	4	0035	-1	0	3480	1	OK		THC
05111500000016	4	0035	0	1	4030	1	OK		THC
05111500000017	4	0035	1	2	3430	1	OK		THC
05111500000018	4	0035	2	3	2550	1	OK		THC
05111500000019	4	0035	3	4	2510	1	OK		THC
05111500000020	4	0035	4	5	3320	1	OK		THC
05111500000021	4	0035	5	6	3140	1	OK		THC
05111500000022	4	0037	-1	0	2720	1	OK		THC
05111500000023	4	0037	0	1	2120	1	OK		THC
05111500000024	4	0037	1	2	1900	1	OK		THC
05111500000025	4	0037	2	3	1710	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000026	4	0037	3	4	2200	1	OK		THC
05111500000027	4	0037	4	5	2160	1	OK		THC
051 1500000028	4	0037	5	6	2040	1	OK		THC
05111500000029	6	0042	1	0	3120	1	OK		THC
05111500000030	6	0042	0	1	3510	1	OK		THC
05111500000031	6	0042	1	2	2940	1	OK		THC
05111500000032	6	0042	2	3	1660	1	OK		THC
05111500000033	6	0042	3	4	4470	1	OK		THC
05111500000034	6	0042	4	5	2350	1	OK		THC
05111500000035	6	0042	5	6	2480	1	OK		THC
05111500000036	29	0053	-1	0	6090	1	OK		THC
05111500000037	6	0053	0	1	4180	1	OK		THC
05111500000038	29	0053	1	2	5230	1	OK		THC
05111500000039	6	0053	2	3	3450	1	OK		THC
05111500000040	6	0053	3	4	3570	1	OK		THC
05111500000041	6	0053	4	5	3110	1	OK		THC
05111500000042	6	0053	5	6	3860	1	OK		THC
05111500000043	6	0055	-1	0	3810	1	OK		THC
05111500000044	6	0055	0	1	2780	1	OK		THC
05111500000045	6	0055	1	2	3620	1	OK		THC
05111500000046	6	0055	2	3	3190	1	OK		THC
05111500000047	6	0055	3	4	2080	1	OK		THC
05111500000048	6	0055	4	5	3760	1	OK		THC
05111500000049	6	0055	5	6	3500	1	OK		THC
05111500000050	6	0064	-1	0	1850	1	OK		THC
05111500000051	6	0064	0	1	2480	1	OK		THC
05111500000052	6	0064	1	2	1590	1	OK		THC
05111500000053	6	0064	2	3	952	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000054	6	0064	3	4	1250	1	OK		THC
05111500000055	6	0064	4	5	1250	1	OK		THC
051 1500000056	6	0064	5	6	1670	1	OK		THC
05111500000057	8	0067	1	0	1580	1	OK		THC
05111500000058	8	0067	0	1	2080	1	OK		THC
05111500000059	8	0067	1	2	1970	1	OK		THC
05111500000060	8	0067	2	3	1400	1	OK		THC
05111500000061	8	0067	3	4	1070	1	OK		THC
05111500000062	8	0067	4	5	1120	1	OK		THC
05111500000063	8	0067	5	6	989	1	OK		THC
05111500000064	29	0072	-1	0	5320	1	OK		THC
05111500000065	8	0072	0	1	3270	1	OK		THC
05111500000066	8	0072	1	2	3140	1	OK		THC
05111500000067	8	0072	2	3	4210	1	OK		THC
05111500000068	29	0072	3	4	6380	1	OK		THC
05111500000069	8	0072	4	5	3350	1	OK		THC
05111500000070	8	0072	5	6	2930	1	OK		THC
05111500000071	8	0080	-1	0	4270	1	OK		THC
05111500000072	8	0080	0	1	3040	1	OK		THC
05111500000073	8	0080	1	2	3310	1	OK		THC
05111500000074	8	0080	2	3	3040	1	OK		THC
05111500000075	8	0080	3	4	1300	1	OK		THC
05111500000076	8	0080	4	5	1910	1	OK		THC
05111500000077	8	0080	5	6	1560	1	OK		THC
05111500000078	29	0087	-1	0	7330	1	OK		THC
05111500000079	29	0087	0	1	4770	1	OK		THC
05111500000080	29	0087	1	2	6210	1	OK		THC
05111500000081	29	0087	2	3	5810	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000082	29	0087	3	4	7080	1	OK		THC
05111500000083	8	0087	4	5	3660	1	OK		THC
051 1500000084	8	0087	5	6	1940	1	OK		THC
05111500000085	29	0105	1	0	7800	1	OK		THC
05111500000086	29	0105	0	1	6390	1	OK		THC
05111500000087	29	0105	1	2	9650	1	OK		THC
05111500000088	29	0105	2	3	7360	1	OK		THC
05111500000089	29	0105	3	4	5570	1	OK		THC
05111500000090	10	0105	4	5	4160	1	OK		THC
05111500000091	10	0105	5	6	2630	1	OK		THC
05111500000092	10	0117	-1	0	1690	1	OK		THC
05111500000093	10	0117	0	1	2000	1	OK		THC
05111500000094	10	0117	1	2	2440	1	OK		THC
05111500000095	10	0117	2	3	2820	1	OK		THC
05111500000096	10	0117	3	4	2100	1	OK		THC
05111500000097	10	0117	4	5	1980	1	OK		THC
05111500000098	10	0117	5	6	876	1	OK		THC
05111500000099	10	0118	-1	0	4090	1	OK		THC
05111500000100	10	0118	0	1	3040	1	OK		THC
05111500000101	10	0118	1	2	2770	1	OK		THC
05111500000102	10	0118	2	3	2590	1	OK		THC
05111500000103	10	0118	3	4	3110	1	OK		THC
05111500000104	10	0118	4	5	2500	1	OK		THC
05111500000105	10	0118	5	6	2380	1	OK		THC
05111500000106	12	0121	-1	0	2530	1	OK		THC
05111500000107	12	0121	0	1	2710	1	OK		THC
05111500000108	12	0121	1	2	2160	1	OK		THC
05111500000109	12	0121	2	3	1650	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000110	12	0121	3	4	1940	1	OK		THC
05111500000111	12	0121	4	5	1510	1	OK		THC
051 1500000112	12	0121	5	6	1130	1	OK		THC
05111500000113	2	0001	1	0	728	1	OK		THC
05111500000114	2	0001	0	1	1130	1	OK		THC
05111500000115	2	0001	1	2	1060	1	OK		THC
05111500000116	2	0001	2	3	1620	1	OK		THC
05111500000117	2	0001	3	4	1930	1	OK		THC
05111500000118	2	0001	4	5	1980	1	OK		THC
05111500000119	2	0001	5	6	1540	1	OK		THC
05111500000120	2	0004	-1	0	3100	1	OK		THC
05111500000121	2	0004	0	1	2050	1	OK		THC
05111500000122	2	0004	1	2	2330	1	OK		THC
05111500000123	2	0004	2	3	2250	1	OK		THC
05111500000124	2	0004	3	4	3090	1	OK		THC
05111500000125	2	0004	4	5	3350	1	OK		THC
05111500000126	2	0004	5	6	1490	1	OK		THC
05111500000127	28	0008	-1	0	6700	1	OK		THC
05111500000128	28	0008	0	1	5440	1	OK		THC
05111500000129	2	0008	1	2	4780	1	OK		THC
05111500000130	2	0008	2	3	3080	1	OK		THC
05111500000131	2	0008	3	4	4050	1	OK		THC
05111500000132	28	0008	4	5	6750	1	OK		THC
05111500000133	2	0008	5	6	3870	1	OK		THC
05111500000134	2	0011	-1	0	3130	1	OK		THC
05111500000135	2	0011	0	1	4150	1	OK		THC
05111500000136	2	0011	1	2	3610	1	OK		THC
05111500000137	2	0011	2	3	1950	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000138	2	0011	3	4	2820	1	OK		THC
05111500000139	2	0011	4	5	4320	1	OK		THC
051 1500000140	2	0011	5	6	3040	1	OK		THC
05111500000141	28	0014	1	0	4830	1	OK		THC
05111500000142	2	0014	0	1	4390	1	OK		THC
05111500000143	2	0014	1	2	2520	1	OK		THC
05111500000144	2	0014	2	3	2180	1	OK		THC
05111500000145	2	0014	3	4	2590	1	OK		THC
05111500000146	2	0014	4	5	3250	1	OK		THC
05111500000147	2	0014	5	6	2460	1	OK		THC
05111500000148	2	0016	-1	0	4600	1	OK		THC
05111500000149	2	0016	0	1	1310	1	OK		THC
05111500000150	2	0016	1	2	2460	1	OK		THC
05111500000151	2	0016	2	3	2500	1	OK		THC
05111500000152	2	0016	3	4	4790	1	OK		THC
05111500000153	28	0016	4	5	9250	1	OK		THC
05111500000154	28	0016	5	6	6360	1	OK		THC
05111500000155	2	0020	-1	0	4020	1	OK		THC
05111500000156	2	0020	0	1	3800	1	OK		THC
05111500000157	2	0020	1	2	3710	1	OK		THC
05111500000158	2	0020	2	3	4440	1	OK		THC
05111500000159	2	0020	3	4	4320	1	OK		THC
05111500000160	28	0020	4	5	7000	1	OK		THC
05111500000161	2	0020	5	6	2020	1	OK		THC
05111500000162	2	0021	-1	0	2050	1	OK		THC
05111500000163	2	0021	0	1	2140	1	OK		THC
05111500000164	2	0021	1	2	2300	1	OK		THC
05111500000165	2	0021	2	3	2730	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000166	2	0021	3	4	1420	1	OK		THC
05111500000167	2	0021	4	5	1010	1	OK		THC
051 1500000168	2	0021	5	6	1240	1	OK		THC
05111500000169	28	0022	1	0	9260	1	OK		THC
05111500000170	28	0022	0	1	9680	1	OK		THC
05111500000171	28	0022	1	2	5140	1	OK		THC
05111500000172	2	0022	2	3	3130	1	OK		THC
05111500000173	28	0022	3	4	5850	1	OK		THC
05111500000174	28	0022	4	5	8280	1	OK		THC
05111500000175	28	0022	5	6	6510	1	OK		THC
05111500000176	4	0023	-1	0	4380	1	OK		THC
05111500000177	4	0023	0	1	2120	1	OK		THC
05111500000178	4	0023	1	2	1770	1	OK		THC
05111500000179	4	0023	2	3	1080	1	OK		THC
05111500000180	4	0023	3	4	1230	1	OK		THC
05111500000181	4	0023	4	5	2380	1	OK		THC
05111500000182	4	0023	5	6	2270	1	OK		THC
05111500000183	4	0030	-1	0	2210	1	OK		THC
05111500000184	4	0030	0	1	931	1	OK		THC
05111500000185	4	0030	1	2	928	1	OK		THC
05111500000186	4	0030	2	3	352	1	OK		THC
05111500000187	4	0030	3	4	678	1	OK		THC
05111500000188	4	0030	4	5	1340	1	OK		THC
05111500000189	4	0030	5	6	855	1	OK		THC
05111500000190	28	0031	-1	0	5590	1	OK		THC
05111500000191	28	0031	0	1	6650	1	OK		THC
05111500000192	4	0031	1	2	4140	1	OK		THC
05111500000193	4	0031	2	3	2290	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000194	4	0031	3	4	2450	1	OK		THC
05111500000195	4	0031	4	5	3060	1	OK		THC
051 1500000196	4	0031	5	6	2850	1	OK		THC
05111500000197	4	0034	1	0	2560	1	OK		THC
05111500000198	4	0034	0	1	2010	1	OK		THC
05111500000199	4	0034	1	2	2570	1	OK		THC
05111500000200	4	0034	2	3	2570	1	OK		THC
05111500000201	4	0034	3	4	3680	1	OK		THC
05111500000202	28	0034	4	5	5800	1	OK		THC
05111500000203	4	0034	5	6	1570	1	OK		THC
05111500000204	28	0038	-1	0	7070	1	OK		THC
05111500000205	28	0038	0	1	5530	1	OK		THC
05111500000206	28	0038	1	2	6010	1	OK		THC
05111500000207	4	0038	2	3	3160	1	OK		THC
05111500000208	4	0038	3	4	4210	1	OK		THC
05111500000209	28	0038	4	5	6210	1	OK		THC
05111500000210	4	0038	5	6	4740	1	OK		THC
05111500000211	6	0039	-1	0	2340	1	OK		THC
05111500000212	6	0039	0	1	2610	1	OK		THC
05111500000213	6	0039	1	2	4740	1	OK		THC
05111500000214	6	0039	2	3	1410	1	OK		THC
05111500000215	6	0039	3	4	2330	1	OK		THC
05111500000216	6	0039	4	5	3590	1	OK		THC
05111500000217	6	0039	5	6	2040	1	OK		THC
05111500000218	6	0044	-1	0	1120	1	OK		THC
05111500000219	6	0044	0	1	1070	1	OK		THC
05111500000220	6	0044	1	2	1190	1	OK		THC
05111500000221	6	0044	2	3	911	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000222	6	0044	3	4	589	1	OK		THC
05111500000223	6	0044	4	5	685	1	OK		THC
051 1500000224	6	0044	5	6	547	1	OK		THC
05111500000225	6	0057	1	0	1200	1	OK		THC
05111500000226	6	0057	0	1	845	1	OK		THC
05111500000227	6	0057	1	2	1050	1	OK		THC
05111500000228	6	0057	2	3	583	1	OK		THC
05111500000229	6	0057	3	4	1000	1	OK		THC
05111500000230	6	0057	4	5	1170	1	OK		THC
05111500000231	6	0057	5	6	817	1	OK		THC
05111500000232	6	0060	-1	0	1400	1	OK		THC
05111500000233	6	0060	0	1	853	1	OK		THC
05111500000234	6	0060	1	2	803	1	OK		THC
05111500000235	6	0060	2	3	741	1	OK		THC
05111500000236	6	0060	3	4	961	1	OK		THC
05111500000237	6	0060	4	5	1380	1	OK		THC
05111500000238	6	0060	5	6	1190	1	OK		THC
05111500000239	6	0066	-1	0	2020	1	OK		THC
05111500000240	6	0066	0	1	2800	1	OK		THC
05111500000241	6	0066	1	2	1900	1	OK		THC
05111500000242	6	0066	2	3	2480	1	OK		THC
05111500000243	6	0066	3	4	2860	1	OK		THC
05111500000244	6	0066	4	5	2130	1	OK		THC
05111500000245	6	0066	5	6	1550	1	OK		THC
05111500000246	8	0069	-1	0	1080	1	OK		THC
05111500000247	8	0069	0	1	989	1	OK		THC
05111500000248	8	0069	1	2	1700	1	OK		THC
05111500000249	8	0069	2	3	1220	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000250	8	0069	3	4	1450	1	OK		THC
05111500000251	8	0069	4	5	1370	1	OK		THC
051 1500000252	8	0069	5	6	1060	1	OK		THC
05111500000253	8	0074	1	0	4630	1	OK		THC
05111500000254	8	0074	0	1	2990	1	OK		THC
05111500000255	8	0074	1	2	2880	1	OK		THC
05111500000256	8	0074	2	3	2590	1	OK		THC
05111500000257	8	0074	3	4	2830	1	OK		THC
05111500000258	8	0074	4	5	2150	1	OK		THC
05111500000259	8	0074	5	6	1660	1	OK		THC
05111500000260	8	0083	-1	0	4110	1	OK		THC
05111500000261	8	0083	0	1	3900	1	OK		THC
05111500000262	8	0083	1	2	3830	1	OK		THC
05111500000263	8	0083	2	3	3210	1	OK		THC
05111500000264	8	0083	3	4	4090	1	OK		THC
05111500000265	29	0083	4	5	5080	1	OK		THC
05111500000266	8	0083	5	6	2960	1	OK		THC
05111500000267	8	0085	-1	0	814	1	OK		THC
05111500000268	8	0085	0	1	904	1	OK		THC
05111500000269	8	0085	1	2	963	1	OK		THC
05111500000270	8	0085	2	3	700	1	OK		THC
05111500000274	8	0088	-1	0	3410	1	OK		THC
05111500000275	8	0088	0	1	2340	1	OK		THC
05111500000276	8	0088	1	2	3740	1	OK		THC
05111500000277	8	0088	2	3	1580	1	OK		THC
05111500000278	8	0088	3	4	1450	1	OK		THC
05111500000279	8	0088	4	5	1200	1	OK		THC
05111500000280	8	0088	5	6	1460	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000281	10	0090	-1	0	98.1	1	OK		THC
05111500000282	10	0090	0	1	69.9	1	OK		THC
0511500000283	10	0090	1	2	85.3	1	OK		THC
05111500000284	10	0090	2	3	70.4	1	OK		THC
05111500000285	10	0090	3	4	64.1	1	OK		THC
05111500000286	10	0090	4	5	BLQ<(50.0)	1	OK		THC
05111500000287	10	0090	5	6	66.6	1	OK		THC
05111500000288	10	0093	-1	0	2660	1	OK		THC
05111500000289	10	0093	0	1	2190	1	OK		THC
05111500000290	10	0093	1	2	2310	1	OK		THC
05111500000291	10	0093	2	3	2190	1	OK		THC
05111500000292	10	0093	3	4	2070	1	OK		THC
05111500000293	10	0093	4	5	2200	1	OK		THC
05111500000294	10	0093	5	6	1290	1	OK		THC
05111500000295	10	0106	-1	0	1290	1	OK		THC
05111500000296	10	0106	0	1	1020	1	OK		THC
05111500000297	10	0106	1	2	878	1	OK		THC
05111500000298	10	0106	2	3	640	1	OK		THC
05111500000299	10	0106	3	4	659	1	OK		THC
05111500000300	10	0106	4	5	549	1	OK		THC
05111500000301	10	0106	5	6	455	1	OK		THC
05111500000302	10	0107	-1	0	2670	1	OK		THC
05111500000303	10	0107	0	1	1290	1	OK		THC
05111500000304	10	0107	1	2	1620	1	OK		THC
05111500000305	10	0107	2	3	1170	1	OK		THC
05111500000306	10	0107	3	4	3020	1	OK		THC
05111500000307	10	0107	4	5	1280	1	OK		THC
05111500000308	10	0107	5	6	833	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000309	29	0110	-1	0	5120	1	OK		THC
05111500000310	10	0110	0	1	4930	1	OK		THC
051 1500000311	29	0110	1	2	5720	1	OK		THC
05111500000312	29	0110	2	3	5840	1	OK		THC
05111500000313	29	0110	3	4	5020	1	OK		THC
05111500000314	10	0110	4	5	3920	1	OK		THC
05111500000315	10	0110	5	6	3390	1	OK		THC
05111500000316	10	0112	-1	0	3050	1	OK		THC
05111500000317	10	0112	0	1	2040	1	OK		THC
05111500000318	10	0112	1	2	1820	1	OK		THC
05111500000319	10	0112	2	3	1760	1	OK		THC
05111500000320	10	0112	3	4	2380	1	OK		THC
05111500000321	10	0112	4	5	1860	1	OK		THC
05111500000322	10	0112	5	6	2260	1	OK		THC
05111500000323	12	0122	-1	0	2180	1	OK		THC
05111500000324	12	0122	0	1	1020	1	OK		THC
05111500000325	12	0122	1	2	942	1	OK		THC
05111500000326	12	0122	2	3	1420	1	OK		THC
05111500000327	12	0122	3	4	1600	1	OK		THC
05111500000328	12	0122	4	5	1640	1	OK		THC
05111500000329	12	0122	5	6	831	1	OK		THC
05111500000337	12	0129	-1	0	2910	1	OK		THC
05111500000338	12	0129	0	1	3030	1	OK		THC
05111500000339	12	0129	1	2	2170	1	OK		THC
05111500000340	12	0129	2	3	1640	1	OK		THC
05111500000341	12	0129	3	4	1510	1	OK		THC
05111500000342	12	0129	4	5	2990	1	OK		THC
05111500000343	12	0129	5	6	1540	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000344	12	0130	-1	0	2620	1	OK		THC
0511150000345	12	0130	0	1	1640	1	OK		THC
051 150000346	12	0130	1	2	1370	1	OK		THC
0511150000347	12	0130	2	3	1030	1	OK		THC
0511150000348	12	0130	3	4	2010	1	OK		THC
0511150000349	12	0130	4	5	2680	1	OK		THC
0511150000350	12	0130	5	6	1310	1	OK		THC
0511150000351	12	0134	-1	0	4640	1	OK		THC
0511150000352	12	0134	0	1	3050	1	OK		THC
0511150000353	12	0134	1	2	3210	1	OK		THC
0511150000354	12	0134	2	3	2310	1	OK		THC
0511150000355	12	0134	3	4	4880	1	OK		THC
0511150000356	29	0134	4	5	5790	1	OK		THC
0511150000357	12	0134	5	6	4960	1	OK		THC
0511150000358	29	0136	-1	0	7920	1	OK		THC
0511150000359	29	0136	0	1	5390	1	OK		THC
0511150000360	29	0136	1	2	8230	1	OK		THC
0511150000361	12	0136	2	3	4070	1	OK		THC
0511150000362	29	0136	3	4	5740	1	OK		THC
0511150000363	12	0136	4	5	3330	1	OK		THC
0511150000364	12	0136	5	6	2650	1	OK		THC
0511150000365	14	0147	-1	0	3560	1	OK		THC
0511150000366	14	0147	0	1	2380	1	OK		THC
0511150000367	14	0147	1	2	2160	1	OK		THC
0511150000368	14	0147	2	3	1110	1	OK		THC
0511150000369	14	0147	3	4	1420	1	OK		THC
0511150000370	14	0147	4	5	2390	1	OK		THC
0511150000371	14	0147	5	6	1460	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000372	14	0149	-1	0	3320	1	OK		THC
05111500000373	14	0149	0	1	2120	1	OK		THC
051 1500000374	14	0149	1	2	2580	1	OK		THC
05111500000375	14	0149	2	3	2990	1	OK		THC
05111500000376	14	0149	3	4	3810	1	OK		THC
05111500000377	14	0149	4	5	2860	1	OK		THC
05111500000378	14	0149	5	6	2270	1	OK		THC
05111500000379	14	0153	-1	0	3430	1	OK		THC
05111500000380	14	0153	0	1	3790	1	OK		THC
05111500000381	14	0153	1	2	3550	1	OK		THC
05111500000382	14	0153	2	3	3110	1	OK		THC
05111500000383	29	0153	3	4	5670	1	OK		THC
05111500000384	14	0153	4	5	4470	1	OK		THC
05111500000385	14	0153	5	6	1870	1	OK		THC
05111500000386	14	0155	-1	0	1710	1	OK		THC
05111500000387	14	0155	0	1	1090	1	OK		THC
05111500000388	14	0155	1	2	1220	1	OK		THC
05111500000389	14	0155	2	3	1080	1	OK		THC
05111500000390	14	0155	3	4	1030	1	OK		THC
05111500000391	14	0155	4	5	1010	1	OK		THC
05111500000392	14	0155	5	6	702	1	OK		THC
05111500000393	14	0162	-1	0	3410	1	OK		THC
05111500000394	14	0162	0	1	3380	1	OK		THC
05111500000395	14	0162	1	2	3000	1	OK		THC
05111500000396	14	0162	2	3	3590	1	OK		THC
05111500000397	29	0162	3	4	6630	1	OK		THC
05111500000398	14	0162	4	5	4940	1	OK		THC
05111500000399	14	0162	5	6	4340	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000400	16	0167	-1	0	4810	1	OK		THC
05111500000401	16	0167	0	1	4080	1	OK		THC
051 1500000402	16	0167	1	2	4010	1	OK		THC
05111500000403	16	0167	2	3	3640	1	OK		THC
05111500000404	16	0167	3	4	4700	1	OK		THC
05111500000405	16	0167	4	5	4330	1	OK		THC
05111500000406	16	0167	5	6	3730	1	OK		THC
05111500000407	16	0170	-1	0	2280	1	OK		THC
05111500000408	16	0170	0	1	1480	1	OK		THC
05111500000409	16	0170	1	2	1080	1	OK		THC
05111500000410	16	0170	2	3	909	1	OK		THC
05111500000411	16	0170	3	4	1000	1	OK		THC
05111500000412	16	0170	4	5	1300	1	OK		THC
05111500000413	16	0170	5	6	729	1	OK		THC
05111500000414	29	0177	-1	0	6460	1	OK		THC
05111500000415	29	0177	0	1	5340	1	OK		THC
05111500000416	16	0177	1	2	3480	1	OK		THC
05111500000417	16	0177	2	3	3450	1	OK		THC
05111500000418	16	0177	3	4	4250	1	OK		THC
05111500000419	16	0177	4	5	4050	1	OK		THC
05111500000420	16	0177	5	6	4780	1	OK		THC
05111500000421	29	0181	-1	0	12400	1	OK		THC
05111500000422	29	0181	0	1	7910	1	OK		THC
05111500000423	29	0181	1	2	6320	1	OK		THC
05111500000424	16	0181	2	3	3490	1	OK		THC
05111500000425	29	0181	3	4	6600	1	OK		THC
05111500000426	29	0181	4	5	7160	1	OK		THC
05111500000427	16	0181	5	6	4930	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000428	16	0183	-1	0	2940	1	OK		THC
05111500000429	16	0183	0	1	2100	1	OK		THC
051 1500000430	16	0183	1	2	1420	1	OK		THC
05111500000431	16	0183	2	3	1160	1	OK		THC
05111500000432	16	0183	3	4	975	1	OK		THC
05111500000433	16	0183	4	5	964	1	OK		THC
05111500000434	16	0183	5	6	1030	1	OK		THC
05111500000435	16	0189	-1	0	2690	1	OK		THC
05111500000436	16	0189	0	1	2270	1	OK		THC
05111500000437	16	0189	1	2	1680	1	OK		THC
05111500000438	16	0189	2	3	1520	1	OK		THC
05111500000439	16	0189	3	4	1610	1	OK		THC
05111500000440	16	0189	4	5	2540	1	OK		THC
05111500000441	16	0189	5	6	2080	1	OK		THC
05111500000442	16	0190	-1	0	3470	1	OK		THC
05111500000443	16	0190	0	1	2480	1	OK		THC
05111500000444	16	0190	1	2	3740	1	OK		THC
05111500000445	16	0190	2	3	2500	1	OK		THC
05111500000446	16	0190	3	4	2940	1	OK		THC
05111500000447	16	0190	4	5	3490	1	OK		THC
05111500000448	16	0190	5	6	2950	1	OK		THC
05111500000449	29	0192	-1	0	9450	1	OK		THC
05111500000450	29	0192	0	1	6410	1	OK		THC
05111500000451	18	0192	1	2	3880	1	OK		THC
05111500000452	29	0192	2	3	5920	1	OK		THC
05111500000453	29	0192	3	4	8760	1	OK		THC
05111500000454	29	0192	4	5	6020	1	OK		THC
05111500000455	29	0192	5	6	5900	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000456	18	0193	-1	0	2130	1	OK		THC
05111500000457	18	0193	0	1	3110	1	OK		THC
051 1500000458	18	0193	1	2	2100	1	OK		THC
05111500000459	18	0193	2	3	1720	1	OK		THC
05111500000460	18	0193	3	4	2370	1	OK		THC
05111500000461	18	0193	4	5	2450	1	OK		THC
05111500000462	18	0193	5	6	1740	1	OK		THC
05111500000463	18	0195	-1	0	1680	1	OK		THC
05111500000464	18	0195	0	1	2030	1	OK		THC
05111500000465	18	0195	1	2	1300	1	OK		THC
05111500000466	18	0195	2	3	627	1	OK		THC
05111500000467	18	0195	3	4	666	1	OK		THC
05111500000468	18	0195	4	5	2080	1	OK		THC
05111500000469	18	0195	5	6	630	1	OK		THC
05111500000470	18	0196	-1	0	869	1	OK		THC
05111500000471	18	0196	0	1	746	1	OK		THC
05111500000472	18	0196	1	2	635	1	OK		THC
05111500000473	18	0196	2	3	330	1	OK		THC
05111500000474	18	0196	3	4	443	1	OK		THC
05111500000475	18	0196	4	5	944	1	OK		THC
05111500000476	18	0196	5	6	489	1	OK		THC
05111500000477	18	0202	-1	0	4560	1	OK		THC
05111500000478	29	0202	0	1	5130	1	OK		THC
05111500000479	29	0202	1	2	5310	1	OK		THC
05111500000480	18	0202	2	3	4690	1	OK		THC
05111500000481	29	0202	3	4	6390	1	OK		THC
05111500000482	29	0202	4	5	7340	1	OK		THC
05111500000483	18	0202	5	6	3250	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000484	18	0206	-1	0	3010	1	OK		THC
05111500000485	18	0206	0	1	3270	1	OK		THC
051 1500000486	18	0206	1	2	2640	1	OK		THC
05111500000487	18	0206	2	3	2150	1	OK		THC
05111500000488	18	0206	3	4	1840	1	OK		THC
05111500000489	18	0206	4	5	2290	1	OK		THC
05111500000490	18	0206	5	6	2120	1	OK		THC
05111500000491	20	0210	-1	0	4990	1	OK		THC
05111500000492	20	0210	0	1	3920	1	OK		THC
05111500000493	20	0210	1	2	3250	1	OK		THC
05111500000494	20	0210	2	3	2890	1	OK		THC
05111500000495	20	0210	3	4	2860	1	OK		THC
05111500000496	20	0210	4	5	3760	1	OK		THC
05111500000497	20	0210	5	6	712	1	OK		THC
05111500000498	29	0216	-1	0	6090	1	OK		THC
05111500000499	20	0216	0	1	4830	1	OK		THC
05111500000500	20	0216	1	2	3440	1	OK		THC
05111500000501	20	0216	2	3	2660	1	OK		THC
05111500000502	20	0216	3	4	3590	1	OK		THC
05111500000503	20	0216	4	5	3790	1	OK		THC
05111500000504	20	0216	5	6	2000	1	OK		THC
05111500000505	20	0220	-1	0	2670	1	OK		THC
05111500000506	20	0220	0	1	2500	1	OK		THC
05111500000507	20	0220	1	2	1240	1	OK		THC
05111500000508	20	0220	2	3	957	1	OK		THC
05111500000509	20	0220	3	4	928	1	OK		THC
05111500000510	20	0220	4	5	831	1	OK		THC
05111500000511	20	0220	5	6	330	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000512	20	0228	-1	0	2430	1	OK		THC
05111500000513	20	0228	0	1	3730	1	OK		THC
051 1500000514	20	0228	1	2	2720	1	OK		THC
05111500000515	20	0228	2	3	2190	1	OK		THC
05111500000516	20	0228	3	4	3320	1	OK		THC
05111500000517	20	0228	4	5	3970	1	OK		THC
05111500000518	20	0228	5	6	1810	1	OK		THC
05111500000519	20	0232	-1	0	2700	1	OK		THC
05111500000520	20	0232	0	1	1680	1	OK		THC
05111500000521	20	0232	1	2	1370	1	OK		THC
05111500000522	20	0232	2	3	1560	1	OK		THC
05111500000523	20	0232	3	4	2680	1	OK		THC
05111500000524	20	0232	4	5	2530	1	OK		THC
05111500000525	20	0232	5	6	1110	1	OK		THC
05111500000526	20	0234	-1	0	2240	1	OK		THC
05111500000527	20	0234	0	1	2780	1	OK		THC
05111500000528	20	0234	1	2	1660	1	OK		THC
05111500000529	20	0234	2	3	1680	1	OK		THC
05111500000530	20	0234	3	4	2450	1	OK		THC
05111500000531	20	0234	4	5	2720	1	OK		THC
05111500000532	20	0234	5	6	1250	1	OK		THC
05111500000533	22	0241	-1	0	3140	1	OK		THC
05111500000534	22	0241	0	1	3410	1	OK		THC
05111500000535	22	0241	1	2	2980	1	OK		THC
05111500000536	22	0241	2	3	2760	1	OK		THC
05111500000537	22	0241	3	4	3590	1	OK		THC
05111500000538	22	0241	4	5	4430	1	OK		THC
05111500000539	22	0241	5	6	3150	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000540	22	0244	-1	0	4790	1	OK		THC
05111500000541	22	0244	0	1	3010	1	OK		THC
051 1500000542	22	0244	1	2	2870	1	OK		THC
05111500000543	22	0244	2	3	2710	1	OK		THC
05111500000544	22	0244	3	4	3260	1	OK		THC
05111500000545	22	0244	4	5	3800	1	OK		THC
05111500000546	22	0244	5	6	2100	1	OK		THC
05111500000547	22	0255	-1	0	4830	1	OK		THC
05111500000548	22	0255	0	1	3630	1	OK		THC
05111500000549	22	0255	1	2	2270	1	OK		THC
05111500000550	22	0255	2	3	2370	1	OK		THC
05111500000551	22	0255	3	4	3210	1	OK		THC
05111500000552	29	0255	4	5	6030	1	OK		THC
05111500000553	22	0255	5	6	3280	1	OK		THC
05111500000554	29	0256	-1	0	5880	1	OK		THC
05111500000555	29	0256	0	1	5630	1	OK		THC
05111500000556	22	0256	1	2	4580	1	OK		THC
05111500000557	22	0256	2	3	4690	1	OK		THC
05111500000558	22	0256	3	4	4540	1	OK		THC
05111500000559	29	0256	4	5	4920	1	OK		THC
05111500000560	22	0256	5	6	3870	1	OK		THC
05111500000561	29	0156	-1	0	6100	1	OK		THC
05111500000562	29	0156	0	1	5350	1	OK		THC
05111500000563	14	0156	1	2	4380	1	OK		THC
05111500000564	14	0156	2	3	4400	1	OK		THC
05111500000565	14	0156	3	4	4030	1	OK		THC
05111500000566	29	0156	4	5	6930	1	OK		THC
05111500000567	14	0156	5	6	3350	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000568	12	0126	-1	0	822	1	OK		THC
05111500000569	12	0126	0	1	906	1	OK		THC
051 1500000570	12	0126	1	2	1140	1	OK		THC
05111500000571	12	0126	2	3	783	1	OK		THC
05111500000572	12	0126	3	4	971	1	OK		THC
05111500000573	12	0126	4	5	1020	1	OK		THC
05111500000574	12	0126	5	6	705	1	OK		THC
05111500000575	12	0139	-1	0	3320	1	OK		THC
05111500000576	12	0139	0	1	2260	1	OK		THC
05111500000577	12	0139	1	2	1490	1	OK		THC
05111500000578	12	0139	2	3	1180	1	OK		THC
05111500000579	12	0139	3	4	1680	1	OK		THC
05111500000580	12	0139	4	5	1530	1	OK		THC
05111500000581	12	0139	5	6	1440	1	OK		THC
05111500000582	12	0140	-1	0	2320	1	OK		THC
05111500000583	12	0140	0	1	1810	1	OK		THC
05111500000584	12	0140	1	2	1860	1	OK		THC
05111500000585	12	0140	2	3	2190	1	OK		THC
05111500000586	12	0140	3	4	2560	1	OK		THC
05111500000587	12	0140	4	5	2420	1	OK		THC
05111500000588	12	0140	5	6	1330	1	OK		THC
05111500000589	29	0148	-1	0	11200	1	OK		THC
05111500000590	29	0148	0	1	5720	1	OK		THC
05111500000591	29	0148	1	2	6200	1	OK		THC
05111500000592	14	0148	2	3	3970	1	OK		THC
05111500000593	14	0148	3	4	5000	1	OK		THC
05111500000594	14	0148	4	5	4680	1	OK		THC
05111500000595	14	0148	5	6	3520	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000596	14	0152	-1	0	1200	1	OK		THC
05111500000597	14	0152	0	1	1010	1	OK		THC
051 1500000598	14	0152	1	2	1170	1	OK		THC
05111500000599	14	0152	2	3	1060	1	OK		THC
05111500000600	14	0152	3	4	1450	1	OK		THC
05111500000601	14	0152	4	5	1210	1	OK		THC
05111500000602	14	0152	5	6	888	1	OK		THC
05111500000603	14	0160	-1	0	3930	1	OK		THC
05111500000604	14	0160	0	1	2740	1	OK		THC
05111500000605	14	0160	1	2	2070	1	OK		THC
05111500000606	14	0160	2	3	1010	1	OK		THC
05111500000607	29	0160	3	4	5770	1	OK		THC
05111500000608	14	0160	4	5	2970	1	OK		THC
05111500000609	14	0160	5	6	1930	1	OK		THC
05111500000610	16	0187	-1	0	3790	1	OK		THC
05111500000611	16	0187	0	1	2650	1	OK		THC
05111500000612	16	0187	1	2	2060	1	OK		THC
05111500000613	16	0187	2	3	2580	1	OK		THC
05111500000614	16	0187	3	4	3490	1	OK		THC
05111500000615	16	0187	4	5	2620	1	OK		THC
05111500000616	16	0187	5	6	1630	1	OK		THC
05111500000617	16	0191	-1	0	2440	1	OK		THC
05111500000618	16	0191	0	1	1380	1	OK		THC
05111500000619	16	0191	1	2	1890	1	OK		THC
05111500000620	16	0191	2	3	2070	1	OK		THC
05111500000621	16	0191	3	4	2150	1	OK		THC
05111500000622	16	0191	4	5	2120	1	OK		THC
05111500000623	16	0191	5	6	1300	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000694	18	0198	-1	0	4400	1	OK		THC
05111500000695	29	0198	0	1	5810	1	OK		THC
051 1500000696	18	0198	1	2	3980	1	OK		THC
05111500000697	29	0198	2	3	5600	1	OK		THC
05111500000698	18	0198	3	4	3950	1	OK		THC
05111500000699	29	0198	4	5	6620	1	OK		THC
05111500000700	18	0198	5	6	4590	1	OK		THC
05111500000701	18	0200	-1	0	1930	1	OK		THC
05111500000702	18	0200	0	1	2180	1	OK		THC
05111500000703	18	0200	1	2	1760	1	OK		THC
05111500000704	18	0200	2	3	1430	1	OK		THC
05111500000705	18	0200	3	4	1660	1	OK		THC
05111500000706	18	0200	4	5	2080	1	OK		THC
05111500000707	18	0200	5	6	901	1	OK		THC
05111500000708	18	0204	-1	0	587	1	OK		THC
05111500000709	18	0204	0	1	706	1	OK		THC
05111500000710	18	0204	1	2	1040	1	OK		THC
05111500000711	18	0204	2	3	648	1	OK		THC
05111500000712	18	0204	3	4	689	1	OK		THC
05111500000713	18	0204	4	5	810	1	OK		THC
05111500000714	18	0204	5	6	638	1	OK		THC
05111500000715	20	0224	-1	0	2280	1	OK		THC
05111500000716	20	0224	0	1	2590	1	OK		THC
05111500000717	20	0224	1	2	2090	1	OK		THC
05111500000718	20	0224	2	3	1660	1	OK		THC
05111500000719	20	0224	3	4	2300	1	OK		THC
05111500000720	20	0224	4	5	2880	1	OK		THC
05111500000721	20	0224	5	6	1600	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000722	20	0229	-1	0	1880	1	OK		THC
05111500000723	20	0229	0	1	1480	1	OK		THC
051 1500000724	20	0229	1	2	2750	1	OK		THC
05111500000725	20	0229	2	3	2050	1	OK		THC
05111500000726	20	0229	3	4	3200	1	OK		THC
05111500000727	20	0229	4	5	3400	1	OK		THC
05111500000728	20	0229	5	6	1450	1	OK		THC
05111500000729	20	0230	-1	0	744	1	OK		THC
05111500000730	20	0230	0	1	1520	1	OK		THC
05111500000731	20	0230	1	2	1020	1	OK		THC
05111500000732	20	0230	2	3	783	1	OK		THC
05111500000733	20	0230	3	4	736	1	OK		THC
05111500000734	20	0230	4	5	986	1	OK		THC
05111500000735	20	0230	5	6	551	1	OK		THC
05111500000736	22	0262	-1	0	2700	1	OK		THC
05111500000737	22	0262	0	1	2650	1	OK		THC
05111500000738	22	0262	1	2	2580	1	OK		THC
05111500000739	22	0262	2	3	2630	1	OK		THC
05111500000740	22	0262	3	4	3350	1	OK		THC
05111500000741	22	0262	4	5	4240	1	OK		THC
05111500000742	22	0262	5	6	1440	1	OK		THC
05111500000743	24	0278	-1	0	4050	1	OK		THC
05111500000744	24	0278	0	1	3560	1	OK		THC
05111500000745	24	0278	1	2	3630	1	OK		THC
05111500000746	24	0278	2	3	4120	1	OK		THC
05111500000747	24	0278	3	4	4950	1	OK		THC
05111500000748	24	0278	4	5	3630	1	OK		THC
05111500000749	24	0278	5	6	2490	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000750	24	0283	-1	0	4520	1	OK		THC
05111500000751	24	0283	0	1	2870	1	OK		THC
051 1500000752	24	0283	1	2	2490	1	OK		THC
05111500000753	24	0283	2	3	2320	1	OK		THC
05111500000754	24	0283	3	4	2690	1	OK		THC
05111500000755	24	0283	4	5	2180	1	OK		THC
05111500000756	24	0283	5	6	1320	1	OK		THC
05111500000757	24	0285	-1	0	4480	1	OK		THC
05111500000758	31	0285	0	1	5700	1	OK		THC
05111500000759	24	0285	1	2	4710	1	OK		THC
05111500000760	31	0285	2	3	5080	1	OK		THC
05111500000761	24	0285	3	4	4780	1	OK		THC
05111500000762	24	0285	4	5	2740	1	OK		THC
05111500000763	24	0285	5	6	4190	1	OK		THC
05111500000764	31	0298	-1	0	5810	1	OK		THC
05111500000765	31	0298	0	1	7100	1	OK		THC
05111500000766	31	0298	1	2	9500	1	OK		THC
05111500000767	31	0298	2	3	5630	1	OK		THC
05111500000768	31	0298	3	4	5460	1	OK		THC
05111500000769	26	0298	4	5	4370	1	OK		THC
05111500000770	31	0298	5	6	5140	1	OK		THC
05111500000771	26	0313	-1	0	2040	1	OK		THC
05111500000772	26	0313	0	1	1440	1	OK		THC
05111500000773	26	0313	1	2	2210	1	OK		THC
05111500000774	26	0313	2	3	1510	1	OK		THC
05111500000775	26	0313	3	4	1940	1	OK		THC
05111500000776	26	0313	4	5	1720	1	OK		THC
05111500000777	26	0313	5	6	1060	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000778	31	0315	-1	0	6030	1	OK		THC
05111500000779	26	0315	0	1	3280	1	OK		THC
051 1500000780	26	0315	1	2	1360	1	OK		THC
05111500000781	26	0315	2	3	1730	1	OK		THC
05111500000782	26	0315	3	4	2010	1	OK		THC
05111500000783	26	0315	4	5	1840	1	OK		THC
05111500000784	26	0315	5	6	2490	1	OK		THC
05111500000785	31	0318	-1	0	6680	1	OK		THC
05111500000786	31	0318	0	1	5380	1	OK		THC
05111500000787	31	0318	1	2	7250	1	OK		THC
05111500000788	31	0318	2	3	7030	1	OK		THC
05111500000789	31	0318	3	4	8790	1	OK		THC
05111500000790	31	0318	4	5	8250	1	OK		THC
05111500000791	31	0318	5	6	8590	1	OK		THC
05111500000792	28	0322	-1	0	1640	1	OK		THC
05111500000793	28	0322	0	1	2060	1	OK		THC
05111500000794	28	0322	1	2	1350	1	OK		THC
05111500000795	28	0322	2	3	1550	1	OK		THC
05111500000796	28	0322	3	4	1290	1	OK		THC
05111500000797	28	0322	4	5	1350	1	OK		THC
05111500000798	28	0322	5	6	977	1	OK		THC
05111500000799	28	0328	-1	0	318	1	OK		THC
05111500000800	28	0328	0	1	519	1	OK		THC
05111500000801	28	0328	1	2	620	1	OK		THC
05111500000802	28	0328	2	3	758	1	OK		THC
05111500000803	28	0328	3	4	1060	1	OK		THC
05111500000804	28	0328	4	5	896	1	OK		THC
05111500000805	28	0328	5	6	727	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000898		0067	0	1		2	OK	Analysis not required	THC
05111500001688	22	0264	-1	0	923	1	OK		THC
051 1500001689	22	0264	0	1	887	1	OK		THC
05111500001690	22	0264	1	2	1240	1	OK		THC
05111500001691	22	0264	2	3	1380	1	OK		THC
05111500001692	22	0264	3	4	2130	1	OK		THC
05111500001693	22	0264	4	5	1400	1	OK		THC
05111500001694	22	0264	5	6	356	1	OK		THC
05111500001702	29	0272	-1	0	7080	1	OK		THC
05111500001703	29	0272	0	1	6010	1	OK		THC
05111500001704	22	0272	1	2	4570	1	OK		THC
05111500001705	29	0272	2	3	7640	1	OK		THC
05111500001706	29	0272	3	4	11400	1	OK		THC
05111500001707	29	0272	4	5	5600	1	OK		THC
05111500001708	29	0272	5	6	6720	1	OK		THC
05111500001716	22	0276	-1	0	1080	1	OK		THC
05111500001717	22	0276	0	1	1400	1	OK		THC
05111500001718	22	0276	1	2	1210	1	OK		THC
05111500001719	22	0276	2	3	1340	1	OK		THC
05111500001720	22	0276	3	4	2330	1	OK		THC
05111500001721	22	0276	4	5	2550	1	OK		THC
05111500001722	22	0276	5	6	2650	1	OK		THC
05111500001730	22	0277	-1	0	4280	1	OK		THC
05111500001731	22	0277	0	1	3270	1	OK		THC
05111500001732	22	0277	1	2	3770	1	OK		THC
05111500001733	22	0277	2	3	4040	1	OK		THC
05111500001734	22	0277	3	4	4670	1	OK		THC
05111500001735	22	0277	4	5	3960	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001736	22	0277	5	6	4190	1	OK		THC
05111500001744	24	0279	-1	0	4560	1	OK		THC
051 1500001745	24	0279	0	1	2200	1	OK		THC
05111500001746	24	0279	1	2	2450	1	OK		THC
05111500001747	24	0279	2	3	2040	1	OK		THC
05111500001748	24	0279	3	4	3750	1	OK		THC
05111500001749	24	0279	4	5	2440	1	OK		THC
05111500001750	24	0279	5	6	2290	1	OK		THC
05111500001758	24	0281	-1	0	2790	1	OK		THC
05111500001759	24	0281	0	1	2210	1	OK		THC
05111500001760	24	0281	1	2	2030	1	OK		THC
05111500001761	24	0281	2	3	1880	1	OK		THC
05111500001762	24	0281	3	4	3600	1	OK		THC
05111500001763	24	0281	4	5	2580	1	OK		THC
05111500001764	24	0281	5	6	3480	1	OK		THC
05111500001772	24	0282	-1	0	2000	1	OK		THC
05111500001773	24	0282	0	1	2020	1	OK		THC
05111500001774	24	0282	1	2	1540	1	OK		THC
05111500001775	24	0282	2	3	1490	1	OK		THC
05111500001776	24	0282	3	4	1890	1	OK		THC
05111500001777	24	0282	4	5	2020	1	OK		THC
05111500001778	24	0282	5	6	1090	1	OK		THC
05111500001786	31	0287	-1	0	5660	1	OK		THC
05111500001787	24	0287	0	1	3330	1	OK		THC
05111500001788	24	0287	1	2	4750	1	OK		THC
05111500001789	24	0287	2	3	2320	1	OK		THC
05111500001790	24	0287	3	4	4500	1	OK		THC
05111500001791	24	0287	4	5	4260	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001792	24	0287	5	6	3980	1	OK		THC
05111500001800	31	0291	-1	0	8220	1	OK		THC
051 1500001801	24	0291	0	1	4810	1	OK		THC
05111500001802	24	0291	1	2	3090	1	OK		THC
05111500001803	24	0291	2	3	4170	1	OK		THC
05111500001804	31	0291	3	4	6750	1	OK		THC
05111500001805	31	0291	4	5	8160	1	OK		THC
05111500001806	24	0291	5	6	3610	1	OK		THC
05111500001814	24	0296	-1	0	2430	1	OK		THC
05111500001815	24	0296	0	1	2600	1	OK		THC
05111500001816	24	0296	1	2	2780	1	OK		THC
05111500001817	24	0296	2	3	4570	1	OK		THC
05111500001818	24	0296	3	4	4150	1	OK		THC
05111500001819	24	0296	4	5	4800	1	OK		THC
05111500001820	24	0296	5	6	3670	1	OK		THC
05111500001828	26	0300	-1	0	852	1	OK		THC
05111500001829	26	0300	0	1	549	1	OK		THC
05111500001830	26	0300	1	2	426	1	OK		THC
05111500001831	26	0300	2	3	340	1	OK		THC
05111500001832	26	0300	3	4	317	1	OK		THC
05111500001833	26	0300	4	5	125	1	OK		THC
05111500001834	26	0300	5	6	97.3	1	OK		THC
05111500001842	26	0301	-1	0	3260	1	OK		THC
05111500001843	26	0301	0	1	3220	1	OK		THC
05111500001844	26	0301	1	2	2200	1	OK		THC
05111500001845	26	0301	2	3	2100	1	OK		THC
05111500001846	26	0301	3	4	3670	1	OK		THC
05111500001847	26	0301	4	5	2580	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001848	26	0301	5	6	3210	1	OK		THC
05111500001856	26	0307	-1	0	4200	1	OK		THC
051 1500001857	26	0307	0	1	2980	1	OK		THC
05111500001858	26	0307	1	2	2900	1	OK		THC
05111500001859	26	0307	2	3	3710	1	OK		THC
05111500001860	26	0307	3	4	4860	1	OK		THC
05111500001861	26	0307	4	5	3900	1	OK		THC
05111500001862	26	0307	5	6	3210	1	OK		THC
05111500001870	26	0308	-1	0	1990	1	OK		THC
05111500001871	26	0308	0	1	2160	1	OK		THC
05111500001872	26	0308	1	2	1710	1	OK		THC
05111500001873	26	0308	2	3	1850	1	OK		THC
05111500001874	26	0308	3	4	2120	1	OK		THC
05111500001875	26	0308	4	5	2380	1	OK		THC
05111500001876	26	0308	5	6	2960	1	OK		THC
05111500001884	26	0316	-1	0	781	1	OK		THC
05111500001885	26	0316	0	1	791	1	OK		THC
05111500001886	26	0316	1	2	1270	1	OK		THC
05111500001887	26	0316	2	3	1290	1	OK		THC
05111500001888	26	0316	3	4	2400	1	OK		THC
05111500001889	26	0316	4	5	1340	1	OK		THC
05111500001890	26	0316	5	6	708	1	OK		THC
05111500001898	31	0320	-1	0	6550	1	OK		THC
05111500001899	31	0320	0	1	5250	1	OK		THC
05111500001900	28	0320	1	2	4310	1	OK		THC
05111500001901	28	0320	2	3	3900	1	OK		THC
05111500001902	28	0320	3	4	4330	1	OK		THC
05111500001903	31	0320	4	5	5240	1	OK		THC





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001904	28	0320	5	6	4520	1	OK		THC
05111500001912	28	0321	-1	0	1740	1	OK		THC
051 1500001913	28	0321	0	1	1010	1	OK		THC
05111500001914	28	0321	1	2	864	1	OK		THC
05111500001915	28	0321	2	3	1260	1	OK		THC
05111500001916	28	0321	3	4	1990	1	OK		THC
05111500001917	28	0321	4	5	2110	1	OK		THC
05111500001918	28	0321	5	6	2040	1	OK		THC



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 23 Study Sample Concentrations for Nicotine-*N*-Glucuronide

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000001	3	0025	-1	0	139	1	OK		Nicotine-N-Gluc
05111500000002	3	0025	0	1	186	1	OK		Nicotine-N-Gluc
05111500000003	3	0025	1	2	212	1	OK		Nicotine-N-Gluc
05111500000004	3	0025	2	3	285	1	OK		Nicotine-N-Gluc
05111500000005	3	0025	3	4	169	1	OK		Nicotine-N-Gluc
05111500000006	3	0025	4	5	165	1	OK		Nicotine-N-Gluc
05111500000007	3	0025	5	6	98.2	1	OK		Nicotine-N-Gluc
05111500000008	3	0029	-1	0	477	1	OK		Nicotine-N-Gluc
05111500000009	3	0029	0	1	234	1	OK		Nicotine-N-Gluc
05111500000010	3	0029	1	2	533	1	OK		Nicotine-N-Gluc
05111500000011	3	0029	2	3	763	1	OK		Nicotine-N-Gluc
05111500000012	3	0029	3	4	513	1	OK		Nicotine-N-Gluc
05111500000013	3	0029	4	5	523	1	OK		Nicotine-N-Gluc
05111500000014	3	0029	5	6	554	1	OK		Nicotine-N-Gluc
05111500000015	3	0035	-1	0	388	1	OK		Nicotine-N-Gluc
05111500000016	3	0035	0	1	408	1	OK		Nicotine-N-Gluc
05111500000017	3	0035	1	2	416	1	OK		Nicotine-N-Gluc
05111500000018	3	0035	2	3	419	1	OK		Nicotine-N-Gluc
05111500000019	3	0035	3	4	370	1	OK		Nicotine-N-Gluc
05111500000020	3	0035	4	5	388	1	OK		Nicotine-N-Gluc
05111500000021	3	0035	5	6	511	1	OK		Nicotine-N-Gluc
05111500000022	3	0037	-1	0	949	1	OK		Nicotine-N-Gluc
05111500000023	3	0037	0	1	1480	1	OK		Nicotine-N-Gluc
05111500000024	3	0037	1	2	1020	1	OK		Nicotine-N-Gluc
05111500000025	3	0037	2	3	894	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000026	3	0037	3	4	1110	1	OK		Nicotine-N-Gluc
05111500000027	3	0037	4	5	884	1	OK		Nicotine-N-Gluc
05111500000028	3	0037	5	6	1280	1	OK		Nicotine-N-Gluc
05111500000029	5	0042	-1	0	550	1	OK		Nicotine-N-Gluc
05111500000030	5	0042	0	1	902	1	OK		Nicotine-N-Gluc
05111500000031	5	0042	1	2	1040	1	OK		Nicotine-N-Gluc
05111500000032	5	0042	2	3	300	1	OK		Nicotine-N-Gluc
05111500000033	5	0042	3	4	2050	1	OK		Nicotine-N-Gluc
05111500000034	5	0042	4	5	714	1	OK		Nicotine-N-Gluc
05111500000035	5	0042	5	6	1190	1	OK		Nicotine-N-Gluc
05111500000036	5	0053	-1	0	195	1	OK		Nicotine-N-Gluc
05111500000037	5	0053	0	1	256	1	OK		Nicotine-N-Gluc
05111500000038	5	0053	1	2	270	1	OK		Nicotine-N-Gluc
05111500000039	5	0053	2	3	358	1	OK		Nicotine-N-Gluc
05111500000040	5	0053	3	4	371	1	OK		Nicotine-N-Gluc
05111500000041	5	0053	4	5	248	1	OK		Nicotine-N-Gluc
05111500000042	5	0053	5	6	350	1	OK		Nicotine-N-Gluc
05111500000043	5	0055	-1	0	384	1	OK		Nicotine-N-Gluc
05111500000044	5	0055	0	1	465	1	OK		Nicotine-N-Gluc
05111500000045	5	0055	1	2	391	1	OK		Nicotine-N-Gluc
05111500000046	5	0055	2	3	431	1	OK		Nicotine-N-Gluc
05111500000047	5	0055	3	4	253	1	OK		Nicotine-N-Gluc
05111500000048	5	0055	4	5	373	1	OK		Nicotine-N-Gluc
05111500000049	5	0055	5	6	430	1	OK		Nicotine-N-Gluc
05111500000050	5	0064	-1	0	345	1	OK		Nicotine-N-Gluc
05111500000051	5	0064	0	1	781	1	OK		Nicotine-N-Gluc
05111500000052	5	0064	1	2	415	1	OK		Nicotine-N-Gluc
05111500000053	5	0064	2	3	421	1	OK		Nicotine-N-Gluc
05111500000054	5	0064	3	4	699	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000055	5	0064	4	5	476	1	OK		Nicotine-N-Gluc
05111500000056	5	0064	5	6	917	1	OK		Nicotine-N-Gluc
05111500000057	7	0067	-1	0	354	1	OK		Nicotine-N-Gluc
05111500000058	7	0067	0	1	523	1	OK		Nicotine-N-Gluc
05111500000059	7	0067	1	2	261	1	OK		Nicotine-N-Gluc
05111500000060	7	0067	2	3	286	1	OK		Nicotine-N-Gluc
05111500000061	7	0067	3	4	217	1	OK		Nicotine-N-Gluc
05111500000062	7	0067	4	5	214	1	OK		Nicotine-N-Gluc
05111500000063	7	0067	5	6	205	1	OK		Nicotine-N-Gluc
05111500000064	7	0072	-1	0	234	1	OK		Nicotine-N-Gluc
05111500000065	7	0072	0	1	212	1	OK		Nicotine-N-Gluc
05111500000066	7	0072	1	2	243	1	OK		Nicotine-N-Gluc
05111500000067	7	0072	2	3	296	1	OK		Nicotine-N-Gluc
05111500000068	7	0072	3	4	327	1	OK		Nicotine-N-Gluc
05111500000069	7	0072	4	5	193	1	OK		Nicotine-N-Gluc
05111500000070	7	0072	5	6	221	1	OK		Nicotine-N-Gluc
05111500000071	7	0080	-1	0	406	1	OK		Nicotine-N-Gluc
05111500000072	7	0080	0	1	363	1	OK		Nicotine-N-Gluc
05111500000073	7	0080	1	2	409	1	OK		Nicotine-N-Gluc
05111500000074	7	0080	2	3	513	1	OK		Nicotine-N-Gluc
05111500000075	7	0080	3	4	541	1	OK		Nicotine-N-Gluc
05111500000076	7	0080	4	5	218	1	OK		Nicotine-N-Gluc
05111500000077	7	0080	5	6	433	1	OK		Nicotine-N-Gluc
05111500000078	7	0087	-1	0	BLQ<(50 0)	1	OK		Nicotine-N-Gluc
05111500000079	7	0087	0	1	55 4	1	OK		Nicotine-N-Gluc
05111500000080	7	0087	1	2	54 2	1	OK		Nicotine-N-Gluc
05111500000081	7	0087	2	3	BLQ<(50 0)	1	OK		Nicotine-N-Gluc
05111500000082	7	0087	3	4	BLQ<(50 0)	1	OK		Nicotine-N-Gluc
05111500000083	7	0087	4	5	BLQ<(50 0)	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000084	7	0087	5	6	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500000085	9	0105	-1	0	64.3	1	OK		Nicotine-N-Gluc
05115000000086	9	0105	0	1	90.4	1	OK		Nicotine-N-Gluc
05111500000087	9	0105	1	2	128	1	OK		Nicotine-N-Gluc
05111500000088	9	0105	2	3	104	1	OK		Nicotine-N-Gluc
05111500000089	9	0105	3	4	72.1	1	OK		Nicotine-N-Gluc
05111500000090	9	0105	4	5	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500000091	9	0105	5	6	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500000092	9	0117	-1	0	277	1	OK		Nicotine-N-Gluc
05111500000093	9	0117	0	1	432	1	OK		Nicotine-N-Gluc
05111500000094	9	0117	1	2	554	1	OK		Nicotine-N-Gluc
05111500000095	9	0117	2	3	630	1	OK		Nicotine-N-Gluc
05111500000096	9	0117	3	4	456	1	OK		Nicotine-N-Gluc
05111500000097	9	0117	4	5	304	1	OK		Nicotine-N-Gluc
05111500000098	9	0117	5	6	272	1	OK		Nicotine-N-Gluc
05111500000099	9	0118	-1	0	415	1	OK		Nicotine-N-Gluc
05111500000100	9	0118	0	1	706	1	OK		Nicotine-N-Gluc
05111500000101	9	0118	1	2	716	1	OK		Nicotine-N-Gluc
05111500000102	9	0118	2	3	695	1	OK		Nicotine-N-Gluc
05111500000103	9	0118	3	4	1030	1	OK		Nicotine-N-Gluc
05111500000104	9	0118	4	5	543	1	OK		Nicotine-N-Gluc
05111500000105	9	0118	5	6	841	1	OK		Nicotine-N-Gluc
05111500000106	11	0121	-1	0	192	1	OK		Nicotine-N-Gluc
05111500000107	11	0121	0	1	464	1	OK		Nicotine-N-Gluc
05111500000108	11	0121	1	2	178	1	OK		Nicotine-N-Gluc
05111500000109	11	0121	2	3	182	1	OK		Nicotine-N-Gluc
05111500000110	11	0121	3	4	141	1	OK		Nicotine-N-Gluc
05111500000111	11	0121	4	5	92.3	1	OK		Nicotine-N-Gluc
05111500000112	11	0121	5	6	155	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000113	1	0001	-1	0	372	1	OK		Nicotine-N-Gluc
05111500000114	1	0001	0	1	531	1	OK		Nicotine-N-Gluc
051 1500000115	1	0001	1	2	496	1	OK		Nicotine-N-Gluc
05111500000116	1	0001	2	3	927	1	OK		Nicotine-N-Gluc
05111500000117	1	0001	3	4	696	1	OK		Nicotine-N-Gluc
05111500000118	1	0001	4	5	711	1	OK		Nicotine-N-Gluc
05111500000119	1	0001	5	6	1160	1	OK		Nicotine-N-Gluc
05111500000120	1	0004	-1	0	464	1	OK		Nicotine-N-Gluc
05111500000121	1	0004	0	1	709	1	OK		Nicotine-N-Gluc
05111500000122	1	0004	1	2	725	1	OK		Nicotine-N-Gluc
05111500000123	1	0004	2	3	655	1	OK		Nicotine-N-Gluc
05111500000124	1	0004	3	4	808	1	OK		Nicotine-N-Gluc
05111500000125	1	0004	4	5	555	1	OK		Nicotine-N-Gluc
05111500000126	1	0004	5	6	379	1	OK		Nicotine-N-Gluc
05111500000127	1	0008	-1	0	557	1	OK		Nicotine-N-Gluc
05111500000128	1	0008	0	1	582	1	OK		Nicotine-N-Gluc
05111500000129	1	0008	1	2	578	1	OK		Nicotine-N-Gluc
05111500000130	1	0008	2	3	653	1	OK		Nicotine-N-Gluc
05111500000131	1	0008	3	4	1040	1	OK		Nicotine-N-Gluc
05111500000132	1	0008	4	5	1010	1	OK		Nicotine-N-Gluc
05111500000133	1	0008	5	6	646	1	OK		Nicotine-N-Gluc
05111500000134	1	0011	-1	0	446	1	OK		Nicotine-N-Gluc
05111500000135	1	0011	0	1	712	1	OK		Nicotine-N-Gluc
05111500000136	1	0011	1	2	613	1	OK		Nicotine-N-Gluc
05111500000137	1	0011	2	3	746	1	OK		Nicotine-N-Gluc
05111500000138	1	0011	3	4	1000	1	OK		Nicotine-N-Gluc
05111500000139	1	0011	4	5	841	1	OK		Nicotine-N-Gluc
05111500000140	1	0011	5	6	1010	1	OK		Nicotine-N-Gluc
05111500000141	1	0014	-1	0	216	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000142	1	0014	0	1	423	1	OK		Nicotine-N-Gluc
05111500000143	1	0014	1	2	327	1	OK		Nicotine-N-Gluc
051 1500000144	1	0014	2	3	463	1	OK		Nicotine-N-Gluc
05111500000145	1	0014	3	4	497	1	OK		Nicotine-N-Gluc
05111500000146	1	0014	4	5	338	1	OK		Nicotine-N-Gluc
05111500000147	1	0014	5	6	848	1	OK		Nicotine-N-Gluc
05111500000148	1	0016	-1	0	578	1	OK		Nicotine-N-Gluc
05111500000149	1	0016	0	1	160	1	OK		Nicotine-N-Gluc
05111500000150	1	0016	1	2	384	1	OK		Nicotine-N-Gluc
05111500000151	1	0016	2	3	498	1	OK		Nicotine-N-Gluc
05111500000152	1	0016	3	4	656	1	OK		Nicotine-N-Gluc
05111500000153	1	0016	4	5	896	1	OK		Nicotine-N-Gluc
05111500000154	1	0016	5	6	776	1	OK		Nicotine-N-Gluc
05111500000155	1	0020	-1	0	244	1	OK		Nicotine-N-Gluc
05111500000156	1	0020	0	1	248	1	OK		Nicotine-N-Gluc
05111500000157	1	0020	1	2	235	1	OK		Nicotine-N-Gluc
05111500000158	1	0020	2	3	375	1	OK		Nicotine-N-Gluc
05111500000159	1	0020	3	4	319	1	OK		Nicotine-N-Gluc
05111500000160	1	0020	4	5	314	1	OK		Nicotine-N-Gluc
05111500000161	1	0020	5	6	88 8	1	OK		Nicotine-N-Gluc
05111500000162	1	0021	-1	0	349	1	OK		Nicotine-N-Gluc
05111500000163	1	0021	0	1	510	1	OK		Nicotine-N-Gluc
05111500000164	1	0021	1	2	459	1	OK		Nicotine-N-Gluc
05111500000165	1	0021	2	3	1110	1	OK		Nicotine-N-Gluc
05111500000166	1	0021	3	4	273	1	OK		Nicotine-N-Gluc
05111500000167	1	0021	4	5	335	1	OK		Nicotine-N-Gluc
05111500000168	1	0021	5	6	482	1	OK		Nicotine-N-Gluc
05111500000169	1	0022	-1	0	291	1	OK		Nicotine-N-Gluc
05111500000170	1	0022	0	1	343	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000171	1	0022	1	2	109	1	OK		Nicotine-N-Gluc
05111500000172	1	0022	2	3	142	1	OK		Nicotine-N-Gluc
051 1500000173	1	0022	3	4	278	1	OK		Nicotine-N-Gluc
05111500000174	1	0022	4	5	185	1	OK		Nicotine-N-Gluc
05111500000175	1	0022	5	6	290	1	OK		Nicotine-N-Gluc
05111500000176	3	0023	-1	0	220	1	OK		Nicotine-N-Gluc
05111500000177	3	0023	0	1	250	1	OK		Nicotine-N-Gluc
05111500000178	3	0023	1	2	108	1	OK		Nicotine-N-Gluc
05111500000179	3	0023	2	3	91.4	1	OK		Nicotine-N-Gluc
05111500000180	3	0023	3	4	383	1	OK		Nicotine-N-Gluc
05111500000181	3	0023	4	5	469	1	OK		Nicotine-N-Gluc
05111500000182	3	0023	5	6	581	1	OK		Nicotine-N-Gluc
05111500000183	3	0030	-1	0	683	1	OK		Nicotine-N-Gluc
05111500000184	3	0030	0	1	1060	1	OK		Nicotine-N-Gluc
05111500000185	3	0030	1	2	466	1	OK		Nicotine-N-Gluc
05111500000186	3	0030	2	3	405	1	OK		Nicotine-N-Gluc
05111500000187	3	0030	3	4	744	1	OK		Nicotine-N-Gluc
05111500000188	3	0030	4	5	1250	1	OK		Nicotine-N-Gluc
05111500000189	3	0030	5	6	809	1	OK		Nicotine-N-Gluc
05111500000190	3	0031	-1	0	690	1	OK		Nicotine-N-Gluc
05111500000191	3	0031	0	1	1370	1	OK		Nicotine-N-Gluc
05111500000192	3	0031	1	2	812	1	OK		Nicotine-N-Gluc
05111500000193	3	0031	2	3	1190	1	OK		Nicotine-N-Gluc
05111500000194	3	0031	3	4	1150	1	OK		Nicotine-N-Gluc
05111500000195	3	0031	4	5	789	1	OK		Nicotine-N-Gluc
05111500000196	3	0031	5	6	889	1	OK		Nicotine-N-Gluc
05111500000197	3	0034	-1	0	303	1	OK		Nicotine-N-Gluc
05111500000198	3	0034	0	1	269	1	OK		Nicotine-N-Gluc
05111500000199	3	0034	1	2	389	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000200	3	0034	2	3	559	1	OK		Nicotine-N-Gluc
05111500000201	3	0034	3	4	750	1	OK		Nicotine-N-Gluc
051 1500000202	3	0034	4	5	756	1	OK		Nicotine-N-Gluc
05111500000203	3	0034	5	6	261	1	OK		Nicotine-N-Gluc
05111500000204	3	0038	-1	0	611	1	OK		Nicotine-N-Gluc
05111500000205	3	0038	0	1	530	1	OK		Nicotine-N-Gluc
05111500000206	3	0038	1	2	488	1	OK		Nicotine-N-Gluc
05111500000207	3	0038	2	3	354	1	OK		Nicotine-N-Gluc
05111500000208	3	0038	3	4	486	1	OK		Nicotine-N-Gluc
05111500000209	3	0038	4	5	459	1	OK		Nicotine-N-Gluc
05111500000210	3	0038	5	6	704	1	OK		Nicotine-N-Gluc
05111500000211	5	0039	-1	0	159	1	OK		Nicotine-N-Gluc
05111500000212	5	0039	0	1	200	1	OK		Nicotine-N-Gluc
05111500000213	5	0039	1	2	165	1	OK		Nicotine-N-Gluc
05111500000214	5	0039	2	3	106	1	OK		Nicotine-N-Gluc
05111500000215	5	0039	3	4	258	1	OK		Nicotine-N-Gluc
05111500000216	5	0039	4	5	187	1	OK		Nicotine-N-Gluc
05111500000217	5	0039	5	6	147	1	OK		Nicotine-N-Gluc
05111500000218	5	0044	-1	0	386	1	OK		Nicotine-N-Gluc
05111500000219	5	0044	0	1	548	1	OK		Nicotine-N-Gluc
05111500000220	5	0044	1	2	576	1	OK		Nicotine-N-Gluc
05111500000221	5	0044	2	3	301	1	OK		Nicotine-N-Gluc
05111500000222	5	0044	3	4	254	1	OK		Nicotine-N-Gluc
05111500000223	5	0044	4	5	287	1	OK		Nicotine-N-Gluc
05111500000224	5	0044	5	6	312	1	OK		Nicotine-N-Gluc
05111500000225	5	0057	-1	0	890	1	OK		Nicotine-N-Gluc
05111500000226	5	0057	0	1	771	1	OK		Nicotine-N-Gluc
05111500000227	5	0057	1	2	1250	1	OK		Nicotine-N-Gluc
05111500000228	5	0057	2	3	1010	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000229	5	0057	3	4	1670	1	OK		Nicotine-N-Gluc
05111500000230	5	0057	4	5	1090	1	OK		Nicotine-N-Gluc
051 1500000231	5	0057	5	6	1200	1	OK		Nicotine-N-Gluc
05111500000232	5	0060	1	0	1580	1	OK		Nicotine-N-Gluc
05111500000233	5	0060	0	1	1370	1	OK		Nicotine-N-Gluc
05111500000234	5	0060	1	2	1820	1	OK		Nicotine-N-Gluc
05111500000235	5	0060	2	3	2840	1	OK		Nicotine-N-Gluc
05111500000236	5	0060	3	4	2960	1	OK		Nicotine-N-Gluc
05111500000237	5	0060	4	5	2770	1	OK		Nicotine-N-Gluc
05111500000238	5	0060	5	6	2880	1	OK		Nicotine-N-Gluc
05111500000239	5	0066	-1	0	306	1	OK		Nicotine-N-Gluc
05111500000240	5	0066	0	1	444	1	OK		Nicotine-N-Gluc
05111500000241	5	0066	1	2	206	1	OK		Nicotine-N-Gluc
05111500000242	5	0066	2	3	507	1	OK		Nicotine-N-Gluc
05111500000243	5	0066	3	4	520	1	OK		Nicotine-N-Gluc
05111500000244	5	0066	4	5	270	1	OK		Nicotine-N-Gluc
05111500000245	5	0066	5	6	245	1	OK		Nicotine-N-Gluc
05111500000246	7	0069	-1	0	523	1	OK		Nicotine-N-Gluc
05111500000247	7	0069	0	1	638	1	OK		Nicotine-N-Gluc
05111500000248	7	0069	1	2	1010	1	OK		Nicotine-N-Gluc
05111500000249	7	0069	2	3	748	1	OK		Nicotine-N-Gluc
05111500000250	7	0069	3	4	949	1	OK		Nicotine-N-Gluc
05111500000251	7	0069	4	5	699	1	OK		Nicotine-N-Gluc
05111500000252	7	0069	5	6	773	1	OK		Nicotine-N-Gluc
05111500000253	7	0074	-1	0	1090	1	OK		Nicotine-N-Gluc
05111500000254	7	0074	0	1	1230	1	OK		Nicotine-N-Gluc
05111500000255	7	0074	1	2	1050	1	OK		Nicotine-N-Gluc
05111500000256	7	0074	2	3	1420	1	OK		Nicotine-N-Gluc
05111500000257	7	0074	3	4	1570	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000258	7	0074	4	5	787	1	OK		Nicotine-N-Gluc
05111500000259	7	0074	5	6	1030	1	OK		Nicotine-N-Gluc
0511500000260	7	0083	-1	0	522	1	OK		Nicotine-N-Gluc
05111500000261	7	0083	0	1	528	1	OK		Nicotine-N-Gluc
05111500000262	7	0083	1	2	394	1	OK		Nicotine-N-Gluc
05111500000263	7	0083	2	3	574	1	OK		Nicotine-N-Gluc
05111500000264	7	0083	3	4	529	1	OK		Nicotine-N-Gluc
05111500000265	7	0083	4	5	453	1	OK		Nicotine-N-Gluc
05111500000266	7	0083	5	6	475	1	OK		Nicotine-N-Gluc
05111500000267	7	0085	-1	0	490	1	OK		Nicotine-N-Gluc
05111500000268	7	0085	0	1	602	1	OK		Nicotine-N-Gluc
05111500000269	7	0085	1	2	304	1	OK		Nicotine-N-Gluc
05111500000270	7	0085	2	3	341	1	OK		Nicotine-N-Gluc
05111500000274	7	0088	-1	0	301	1	OK		Nicotine-N-Gluc
05111500000275	7	0088	0	1	434	1	OK		Nicotine-N-Gluc
05111500000276	7	0088	1	2	238	1	OK		Nicotine-N-Gluc
05111500000277	7	0088	2	3	151	1	OK		Nicotine-N-Gluc
05111500000278	7	0088	3	4	147	1	OK		Nicotine-N-Gluc
05111500000279	7	0088	4	5	157	1	OK		Nicotine-N-Gluc
05111500000280	7	0088	5	6	213	1	OK		Nicotine-N-Gluc
05111500000281	9	0090	-1	0	1630	1	OK		Nicotine-N-Gluc
05111500000282	9	0090	0	1	1440	1	OK		Nicotine-N-Gluc
05111500000283	9	0090	1	2	1460	1	OK		Nicotine-N-Gluc
05111500000284	9	0090	2	3	1160	1	OK		Nicotine-N-Gluc
05111500000285	9	0090	3	4	1100	1	OK		Nicotine-N-Gluc
05111500000286	9	0090	4	5	978	1	OK		Nicotine-N-Gluc
05111500000287	9	0090	5	6	1380	1	OK		Nicotine-N-Gluc
05111500000288	9	0093	-1	0	713	1	OK		Nicotine-N-Gluc
05111500000289	9	0093	0	1	992	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000290	9	0093	1	2	1050	1	OK		Nicotine-N-Gluc
0511150000291	9	0093	2	3	1120	1	OK		Nicotine-N-Gluc
051 150000292	9	0093	3	4	1040	1	OK		Nicotine-N-Gluc
0511150000293	9	0093	4	5	890	1	OK		Nicotine-N-Gluc
0511150000294	9	0093	5	6	909	1	OK		Nicotine-N-Gluc
0511150000295	9	0106	-1	0	217	1	OK		Nicotine-N-Gluc
0511150000296	9	0106	0	1	309	1	OK		Nicotine-N-Gluc
0511150000297	9	0106	1	2	200	1	OK		Nicotine-N-Gluc
0511150000298	9	0106	2	3	208	1	OK		Nicotine-N-Gluc
0511150000299	9	0106	3	4	286	1	OK		Nicotine-N-Gluc
0511150000300	9	0106	4	5	133	1	OK		Nicotine-N-Gluc
0511150000301	9	0106	5	6	114	1	OK		Nicotine-N-Gluc
0511150000302	9	0107	-1	0	1990	1	OK		Nicotine-N-Gluc
0511150000303	9	0107	0	1	1020	1	OK		Nicotine-N-Gluc
0511150000304	9	0107	1	2	793	1	OK		Nicotine-N-Gluc
0511150000305	9	0107	2	3	609	1	OK		Nicotine-N-Gluc
0511150000306	9	0107	3	4	324	1	OK		Nicotine-N-Gluc
0511150000307	9	0107	4	5	569	1	OK		Nicotine-N-Gluc
0511150000308	9	0107	5	6	380	1	OK		Nicotine-N-Gluc
0511150000309	9	0110	-1	0	404	1	OK		Nicotine-N-Gluc
0511150000310	9	0110	0	1	616	1	OK		Nicotine-N-Gluc
0511150000311	9	0110	1	2	399	1	OK		Nicotine-N-Gluc
0511150000312	9	0110	2	3	625	1	OK		Nicotine-N-Gluc
0511150000313	9	0110	3	4	467	1	OK		Nicotine-N-Gluc
0511150000314	9	0110	4	5	269	1	OK		Nicotine-N-Gluc
0511150000315	9	0110	5	6	578	1	OK		Nicotine-N-Gluc
0511150000316	9	0112	-1	0	567	1	OK		Nicotine-N-Gluc
0511150000317	9	0112	0	1	695	1	OK		Nicotine-N-Gluc
0511150000318	9	0112	1	2	678	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000319	9	0112	2	3	721	1	OK		Nicotine-N-Gluc
05111500000320	9	0112	3	4	750	1	OK		Nicotine-N-Gluc
051 1500000321	9	0112	4	5	537	1	OK		Nicotine-N-Gluc
05111500000322	9	0112	5	6	753	1	OK		Nicotine-N-Gluc
05111500000323	11	0122	-1	0	488	1	OK		Nicotine-N-Gluc
05111500000324	11	0122	0	1	403	1	OK		Nicotine-N-Gluc
05111500000325	11	0122	1	2	342	1	OK		Nicotine-N-Gluc
05111500000326	11	0122	2	3	829	1	OK		Nicotine-N-Gluc
05111500000327	11	0122	3	4	756	1	OK		Nicotine-N-Gluc
05111500000328	11	0122	4	5	414	1	OK		Nicotine-N-Gluc
05111500000329	11	0122	5	6	409	1	OK		Nicotine-N-Gluc
05111500000337	11	0129	-1	0	822	1	OK		Nicotine-N-Gluc
05111500000338	11	0129	0	1	809	1	OK		Nicotine-N-Gluc
05111500000339	11	0129	1	2	538	1	OK		Nicotine-N-Gluc
05111500000340	11	0129	2	3	507	1	OK		Nicotine-N-Gluc
05111500000341	11	0129	3	4	718	1	OK		Nicotine-N-Gluc
05111500000342	11	0129	4	5	451	1	OK		Nicotine-N-Gluc
05111500000343	11	0129	5	6	652	1	OK		Nicotine-N-Gluc
05111500000344	11	0130	-1	0	1370	1	OK		Nicotine-N-Gluc
05111500000345	11	0130	0	1	1470	1	OK		Nicotine-N-Gluc
05111500000346	11	0130	1	2	1050	1	OK		Nicotine-N-Gluc
05111500000347	11	0130	2	3	1160	1	OK		Nicotine-N-Gluc
05111500000348	11	0130	3	4	1590	1	OK		Nicotine-N-Gluc
05111500000349	11	0130	4	5	986	1	OK		Nicotine-N-Gluc
05111500000350	11	0130	5	6	497	1	OK		Nicotine-N-Gluc
05111500000351	11	0134	-1	0	334	1	OK		Nicotine-N-Gluc
05111500000352	11	0134	0	1	492	1	OK		Nicotine-N-Gluc
05111500000353	11	0134	1	2	400	1	OK		Nicotine-N-Gluc
05111500000354	11	0134	2	3	440	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000355	11	0134	3	4	755	1	OK		Nicotine-N-Gluc
05111500000356	11	0134	4	5	472	1	OK		Nicotine-N-Gluc
051 1500000357	11	0134	5	6	668	1	OK		Nicotine-N-Gluc
05111500000358	11	0136	1	0	859	1	OK		Nicotine-N-Gluc
05111500000359	11	0136	0	1	846	1	OK		Nicotine-N-Gluc
05111500000360	11	0136	1	2	873	1	OK		Nicotine-N-Gluc
05111500000361	11	0136	2	3	859	1	OK		Nicotine-N-Gluc
05111500000362	11	0136	3	4	1260	1	OK		Nicotine-N-Gluc
05111500000363	11	0136	4	5	436	1	OK		Nicotine-N-Gluc
05111500000364	11	0136	5	6	695	1	OK		Nicotine-N-Gluc
05111500000365	13	0147	-1	0	239	1	OK		Nicotine-N-Gluc
05111500000366	13	0147	0	1	393	1	OK		Nicotine-N-Gluc
05111500000367	13	0147	1	2	238	1	OK		Nicotine-N-Gluc
05111500000368	13	0147	2	3	203	1	OK		Nicotine-N-Gluc
05111500000369	13	0147	3	4	278	1	OK		Nicotine-N-Gluc
05111500000370	13	0147	4	5	342	1	OK		Nicotine-N-Gluc
05111500000371	13	0147	5	6	229	1	OK		Nicotine-N-Gluc
05111500000372	13	0149	-1	0	158	1	OK		Nicotine-N-Gluc
05111500000373	13	0149	0	1	148	1	OK		Nicotine-N-Gluc
05111500000374	13	0149	1	2	184	1	OK		Nicotine-N-Gluc
05111500000375	13	0149	2	3	261	1	OK		Nicotine-N-Gluc
05111500000376	13	0149	3	4	219	1	OK		Nicotine-N-Gluc
05111500000377	13	0149	4	5	132	1	OK		Nicotine-N-Gluc
05111500000378	13	0149	5	6	194	1	OK		Nicotine-N-Gluc
05111500000379	13	0153	-1	0	266	1	OK		Nicotine-N-Gluc
05111500000380	13	0153	0	1	377	1	OK		Nicotine-N-Gluc
05111500000381	13	0153	1	2	334	1	OK		Nicotine-N-Gluc
05111500000382	13	0153	2	3	374	1	OK		Nicotine-N-Gluc
05111500000383	13	0153	3	4	406	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000384	13	0153	4	5	156	1	OK		Nicotine-N-Gluc
05111500000385	13	0153	5	6	107	1	OK		Nicotine-N-Gluc
05115000000386	13	0155	-1	0	337	1	OK		Nicotine-N-Gluc
05111500000387	13	0155	0	1	506	1	OK		Nicotine-N-Gluc
05111500000388	13	0155	1	2	317	1	OK		Nicotine-N-Gluc
05111500000389	13	0155	2	3	388	1	OK		Nicotine-N-Gluc
05111500000390	13	0155	3	4	260	1	OK		Nicotine-N-Gluc
05111500000391	13	0155	4	5	150	1	OK		Nicotine-N-Gluc
05111500000392	13	0155	5	6	183	1	OK		Nicotine-N-Gluc
05111500000393	13	0162	-1	0	169	1	OK		Nicotine-N-Gluc
05111500000394	13	0162	0	1	394	1	OK		Nicotine-N-Gluc
05111500000395	13	0162	1	2	405	1	OK		Nicotine-N-Gluc
05111500000396	13	0162	2	3	898	1	OK		Nicotine-N-Gluc
05111500000397	13	0162	3	4	1050	1	OK		Nicotine-N-Gluc
05111500000398	13	0162	4	5	555	1	OK		Nicotine-N-Gluc
05111500000399	13	0162	5	6	692	1	OK		Nicotine-N-Gluc
05111500000400	15	0167	-1	0	428	1	OK		Nicotine-N-Gluc
05111500000401	15	0167	0	1	674	1	OK		Nicotine-N-Gluc
05111500000402	15	0167	1	2	824	1	OK		Nicotine-N-Gluc
05111500000403	15	0167	2	3	788	1	OK		Nicotine-N-Gluc
05111500000404	15	0167	3	4	1080	1	OK		Nicotine-N-Gluc
05111500000405	15	0167	4	5	544	1	OK		Nicotine-N-Gluc
05111500000406	15	0167	5	6	682	1	OK		Nicotine-N-Gluc
05111500000407	15	0170	-1	0	391	1	OK		Nicotine-N-Gluc
05111500000408	15	0170	0	1	397	1	OK		Nicotine-N-Gluc
05111500000409	15	0170	1	2	242	1	OK		Nicotine-N-Gluc
05111500000410	15	0170	2	3	322	1	OK		Nicotine-N-Gluc
05111500000411	15	0170	3	4	283	1	OK		Nicotine-N-Gluc
05111500000412	15	0170	4	5	199	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000413	15	0170	5	6	178	1	OK		Nicotine-N-Gluc
05111500000414	15	0177	-1	0	508	1	OK		Nicotine-N-Gluc
051 1500000415	15	0177	0	1	733	1	OK		Nicotine-N-Gluc
05111500000416	15	0177	1	2	449	1	OK		Nicotine-N-Gluc
05111500000417	15	0177	2	3	657	1	OK		Nicotine-N-Gluc
05111500000418	15	0177	3	4	824	1	OK		Nicotine-N-Gluc
05111500000419	15	0177	4	5	455	1	OK		Nicotine-N-Gluc
05111500000420	15	0177	5	6	616	1	OK		Nicotine-N-Gluc
05111500000421	15	0181	-1	0	594	1	OK		Nicotine-N-Gluc
05111500000422	15	0181	0	1	578	1	OK		Nicotine-N-Gluc
05111500000423	15	0181	1	2	513	1	OK		Nicotine-N-Gluc
05111500000424	15	0181	2	3	449	1	OK		Nicotine-N-Gluc
05111500000425	15	0181	3	4	678	1	OK		Nicotine-N-Gluc
05111500000426	15	0181	4	5	357	1	OK		Nicotine-N-Gluc
05111500000427	15	0181	5	6	388	1	OK		Nicotine-N-Gluc
05111500000428	15	0183	-1	0	125	1	OK		Nicotine-N-Gluc
05111500000429	15	0183	0	1	114	1	OK		Nicotine-N-Gluc
05111500000430	15	0183	1	2	52.1	1	OK		Nicotine-N-Gluc
05111500000431	15	0183	2	3	60.0	1	OK		Nicotine-N-Gluc
05111500000432	15	0183	3	4	60.7	1	OK		Nicotine-N-Gluc
05111500000433	15	0183	4	5	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500000434	15	0183	5	6	71.0	1	OK		Nicotine-N-Gluc
05111500000435	15	0189	-1	0	222	1	OK		Nicotine-N-Gluc
05111500000436	15	0189	0	1	248	1	OK		Nicotine-N-Gluc
05111500000437	15	0189	1	2	155	1	OK		Nicotine-N-Gluc
05111500000438	15	0189	2	3	342	1	OK		Nicotine-N-Gluc
05111500000439	15	0189	3	4	361	1	OK		Nicotine-N-Gluc
05111500000440	15	0189	4	5	302	1	OK		Nicotine-N-Gluc
05111500000441	15	0189	5	6	398	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000442	15	0190	-1	0	411	1	OK		Nicotine-N-Gluc
05111500000443	15	0190	0	1	507	1	OK		Nicotine-N-Gluc
051 1500000444	15	0190	1	2	691	1	OK		Nicotine-N-Gluc
05111500000445	15	0190	2	3	575	1	OK		Nicotine-N-Gluc
05111500000446	15	0190	3	4	622	1	OK		Nicotine-N-Gluc
05111500000447	15	0190	4	5	359	1	OK		Nicotine-N-Gluc
05111500000448	15	0190	5	6	507	1	OK		Nicotine-N-Gluc
05111500000449	30	0192	-1	0	406	1	OK		Nicotine-N-Gluc
05111500000450	30	0192	0	1	523	1	OK		Nicotine-N-Gluc
05111500000451	30	0192	1	2	342	1	OK		Nicotine-N-Gluc
05111500000452	30	0192	2	3	440	1	OK		Nicotine-N-Gluc
05111500000453	30	0192	3	4	504	1	OK		Nicotine-N-Gluc
05111500000454	30	0192	4	5	230	1	OK		Nicotine-N-Gluc
05111500000455	30	0192	5	6	444	1	OK		Nicotine-N-Gluc
05111500000456	30	0193	-1	0	278	1	OK		Nicotine-N-Gluc
05111500000457	30	0193	0	1	765	1	OK		Nicotine-N-Gluc
05111500000458	30	0193	1	2	428	1	OK		Nicotine-N-Gluc
05111500000459	30	0193	2	3	377	1	OK		Nicotine-N-Gluc
05111500000460	30	0193	3	4	614	1	OK		Nicotine-N-Gluc
05111500000461	30	0193	4	5	408	1	OK		Nicotine-N-Gluc
05111500000462	30	0193	5	6	374	1	OK		Nicotine-N-Gluc
05111500000463	30	0195	-1	0	196	1	OK		Nicotine-N-Gluc
05111500000464	30	0195	0	1	307	1	OK		Nicotine-N-Gluc
05111500000465	30	0195	1	2	51.8	1	OK		Nicotine-N-Gluc
05111500000466	30	0195	2	3	55.2	1	OK		Nicotine-N-Gluc
05111500000467	30	0195	3	4	97.6	1	OK		Nicotine-N-Gluc
05111500000468	30	0195	4	5	230	1	OK		Nicotine-N-Gluc
05111500000469	30	0195	5	6	62.9	1	OK		Nicotine-N-Gluc
05111500000470	30	0196	-1	0	73.9	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000471	30	0196	0	1	135	1	OK		Nicotine-N-Gluc
05111500000472	30	0196	1	2	57.5	1	OK		Nicotine-N-Gluc
0511500000473	30	0196	2	3	59.5	1	OK		Nicotine-N-Gluc
05111500000474	30	0196	3	4	94.9	1	OK		Nicotine-N-Gluc
05111500000475	30	0196	4	5	145	1	OK		Nicotine-N-Gluc
05111500000476	30	0196	5	6	66.2	1	OK		Nicotine-N-Gluc
05111500000477	30	0202	-1	0	268	1	OK		Nicotine-N-Gluc
05111500000478	30	0202	0	1	538	1	OK		Nicotine-N-Gluc
05111500000479	30	0202	1	2	599	1	OK		Nicotine-N-Gluc
05111500000480	30	0202	2	3	835	1	OK		Nicotine-N-Gluc
05111500000481	30	0202	3	4	665	1	OK		Nicotine-N-Gluc
05111500000482	30	0202	4	5	402	1	OK		Nicotine-N-Gluc
05111500000483	30	0202	5	6	145	1	OK		Nicotine-N-Gluc
05111500000484	30	0206	-1	0	287	1	OK		Nicotine-N-Gluc
05111500000485	30	0206	0	1	900	1	OK		Nicotine-N-Gluc
05111500000486	30	0206	1	2	433	1	OK		Nicotine-N-Gluc
05111500000487	30	0206	2	3	673	1	OK		Nicotine-N-Gluc
05111500000488	30	0206	3	4	738	1	OK		Nicotine-N-Gluc
05111500000489	30	0206	4	5	585	1	OK		Nicotine-N-Gluc
05111500000490	30	0206	5	6	763	1	OK		Nicotine-N-Gluc
05111500000491	19	0210	-1	0	366	1	OK		Nicotine-N-Gluc
05111500000492	19	0210	0	1	389	1	OK		Nicotine-N-Gluc
05111500000493	19	0210	1	2	269	1	OK		Nicotine-N-Gluc
05111500000494	19	0210	2	3	339	1	OK		Nicotine-N-Gluc
05111500000495	19	0210	3	4	312	1	OK		Nicotine-N-Gluc
05111500000496	19	0210	4	5	287	1	OK		Nicotine-N-Gluc
05111500000497	19	0210	5	6	267	1	OK		Nicotine-N-Gluc
05111500000498	19	0216	-1	0	554	1	OK		Nicotine-N-Gluc
05111500000499	19	0216	0	1	664	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000500	19	0216	1	2	493	1	OK		Nicotine-N-Gluc
05111500000501	19	0216	2	3	524	1	OK		Nicotine-N-Gluc
0511500000502	19	0216	3	4	675	1	OK		Nicotine-N-Gluc
05111500000503	19	0216	4	5	467	1	OK		Nicotine-N-Gluc
05111500000504	19	0216	5	6	309	1	OK		Nicotine-N-Gluc
05111500000505	19	0220	-1	0	404	1	OK		Nicotine-N-Gluc
05111500000506	19	0220	0	1	639	1	OK		Nicotine-N-Gluc
05111500000507	19	0220	1	2	192	1	OK		Nicotine-N-Gluc
05111500000508	19	0220	2	3	209	1	OK		Nicotine-N-Gluc
05111500000509	19	0220	3	4	217	1	OK		Nicotine-N-Gluc
05111500000510	19	0220	4	5	146	1	OK		Nicotine-N-Gluc
05111500000511	19	0220	5	6	53.9	1	OK		Nicotine-N-Gluc
05111500000512	19	0228	-1	0	651	1	OK		Nicotine-N-Gluc
05111500000513	19	0228	0	1	1350	1	OK		Nicotine-N-Gluc
05111500000514	19	0228	1	2	1210	1	OK		Nicotine-N-Gluc
05111500000515	19	0228	2	3	1130	1	OK		Nicotine-N-Gluc
05111500000516	19	0228	3	4	1420	1	OK		Nicotine-N-Gluc
05111500000517	19	0228	4	5	1050	1	OK		Nicotine-N-Gluc
05111500000518	19	0228	5	6	466	1	OK		Nicotine-N-Gluc
05111500000519	19	0232	-1	0	166	1	OK		Nicotine-N-Gluc
05111500000520	19	0232	0	1	218	1	OK		Nicotine-N-Gluc
05111500000521	19	0232	1	2	146	1	OK		Nicotine-N-Gluc
05111500000522	19	0232	2	3	226	1	OK		Nicotine-N-Gluc
05111500000523	19	0232	3	4	262	1	OK		Nicotine-N-Gluc
05111500000524	19	0232	4	5	164	1	OK		Nicotine-N-Gluc
05111500000525	19	0232	5	6	156	1	OK		Nicotine-N-Gluc
05111500000526	19	0234	-1	0	510	1	OK		Nicotine-N-Gluc
05111500000527	19	0234	0	1	978	1	OK		Nicotine-N-Gluc
05111500000528	19	0234	1	2	670	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000529	19	0234	2	3	1220	1	OK		Nicotine-N-Gluc
0511150000530	19	0234	3	4	1480	1	OK		Nicotine-N-Gluc
051150000531	19	0234	4	5	920	1	OK		Nicotine-N-Gluc
0511150000532	19	0234	5	6	738	1	OK		Nicotine-N-Gluc
0511150000533	21	0241	-1	0	520	1	OK		Nicotine-N-Gluc
0511150000534	21	0241	0	1	678	1	OK		Nicotine-N-Gluc
0511150000535	21	0241	1	2	505	1	OK		Nicotine-N-Gluc
0511150000536	21	0241	2	3	952	1	OK		Nicotine-N-Gluc
0511150000537	21	0241	3	4	1120	1	OK		Nicotine-N-Gluc
0511150000538	21	0241	4	5	685	1	OK		Nicotine-N-Gluc
0511150000539	21	0241	5	6	708	1	OK		Nicotine-N-Gluc
0511150000540	21	0244	-1	0	451	1	OK		Nicotine-N-Gluc
0511150000541	21	0244	0	1	436	1	OK		Nicotine-N-Gluc
0511150000542	21	0244	1	2	605	1	OK		Nicotine-N-Gluc
0511150000543	21	0244	2	3	752	1	OK		Nicotine-N-Gluc
0511150000544	21	0244	3	4	830	1	OK		Nicotine-N-Gluc
0511150000545	21	0244	4	5	594	1	OK		Nicotine-N-Gluc
0511150000546	21	0244	5	6	403	1	OK		Nicotine-N-Gluc
0511150000547	21	0255	-1	0	185	1	OK		Nicotine-N-Gluc
0511150000548	21	0255	0	1	303	1	OK		Nicotine-N-Gluc
0511150000549	21	0255	1	2	121	1	OK		Nicotine-N-Gluc
0511150000550	21	0255	2	3	446	1	OK		Nicotine-N-Gluc
0511150000551	21	0255	3	4	407	1	OK		Nicotine-N-Gluc
0511150000552	21	0255	4	5	353	1	OK		Nicotine-N-Gluc
0511150000553	21	0255	5	6	372	1	OK		Nicotine-N-Gluc
0511150000554	21	0256	-1	0	457	1	OK		Nicotine-N-Gluc
0511150000555	21	0256	0	1	457	1	OK		Nicotine-N-Gluc
0511150000556	21	0256	1	2	698	1	OK		Nicotine-N-Gluc
0511150000557	21	0256	2	3	542	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000558	21	0256	3	4	931	1	OK		Nicotine-N-Gluc
05111500000559	21	0256	4	5	602	1	OK		Nicotine-N-Gluc
051 1500000560	37	0256	5	6	548	1	OK		Nicotine-N-Gluc
05111500000561	13	0156	1	0	429	1	OK		Nicotine-N-Gluc
05111500000562	13	0156	0	1	692	1	OK		Nicotine-N-Gluc
05111500000563	13	0156	1	2	773	1	OK		Nicotine-N-Gluc
05111500000564	13	0156	2	3	956	1	OK		Nicotine-N-Gluc
05111500000565	13	0156	3	4	731	1	OK		Nicotine-N-Gluc
05111500000566	13	0156	4	5	676	1	OK		Nicotine-N-Gluc
05111500000567	13	0156	5	6	631	1	OK		Nicotine-N-Gluc
05111500000568	11	0126	-1	0	587	1	OK		Nicotine-N-Gluc
05111500000569	11	0126	0	1	488	1	OK		Nicotine-N-Gluc
05111500000570	11	0126	1	2	647	1	OK		Nicotine-N-Gluc
05111500000571	11	0126	2	3	489	1	OK		Nicotine-N-Gluc
05111500000572	11	0126	3	4	527	1	OK		Nicotine-N-Gluc
05111500000573	11	0126	4	5	388	1	OK		Nicotine-N-Gluc
05111500000574	11	0126	5	6	345	1	OK		Nicotine-N-Gluc
05111500000575	11	0139	-1	0	938	1	OK		Nicotine-N-Gluc
05111500000576	11	0139	0	1	1350	1	OK		Nicotine-N-Gluc
05111500000577	11	0139	1	2	882	1	OK		Nicotine-N-Gluc
05111500000578	11	0139	2	3	986	1	OK		Nicotine-N-Gluc
05111500000579	11	0139	3	4	1300	1	OK		Nicotine-N-Gluc
05111500000580	11	0139	4	5	861	1	OK		Nicotine-N-Gluc
05111500000581	11	0139	5	6	1220	1	OK		Nicotine-N-Gluc
05111500000582	11	0140	-1	0	231	1	OK		Nicotine-N-Gluc
05111500000583	11	0140	0	1	306	1	OK		Nicotine-N-Gluc
05111500000584	11	0140	1	2	333	1	OK		Nicotine-N-Gluc
05111500000585	11	0140	2	3	411	1	OK		Nicotine-N-Gluc
05111500000586	11	0140	3	4	386	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000587	11	0140	4	5	235	1	OK		Nicotine-N-Gluc
0511150000588	11	0140	5	6	284	1	OK		Nicotine-N-Gluc
051150000589	13	0148	-1	0	1480	1	OK		Nicotine-N-Gluc
0511150000590	13	0148	0	1	1860	1	OK		Nicotine-N-Gluc
0511150000591	13	0148	1	2	1880	1	OK		Nicotine-N-Gluc
0511150000592	13	0148	2	3	1370	1	OK		Nicotine-N-Gluc
0511150000593	13	0148	3	4	1330	1	OK		Nicotine-N-Gluc
0511150000594	13	0148	4	5	921	1	OK		Nicotine-N-Gluc
0511150000595	13	0148	5	6	942	1	OK		Nicotine-N-Gluc
0511150000596	13	0152	-1	0	81.2	1	OK		Nicotine-N-Gluc
0511150000597	13	0152	0	1	108	1	OK		Nicotine-N-Gluc
0511150000598	13	0152	1	2	131	1	OK		Nicotine-N-Gluc
0511150000599	13	0152	2	3	197	1	OK		Nicotine-N-Gluc
0511150000600	13	0152	3	4	164	1	OK		Nicotine-N-Gluc
0511150000601	13	0152	4	5	93.9	1	OK		Nicotine-N-Gluc
0511150000602	13	0152	5	6	154	1	OK		Nicotine-N-Gluc
0511150000603	13	0160	-1	0	667	1	OK		Nicotine-N-Gluc
0511150000604	13	0160	0	1	987	1	OK		Nicotine-N-Gluc
0511150000605	13	0160	1	2	1000	1	OK		Nicotine-N-Gluc
0511150000606	13	0160	2	3	440	1	OK		Nicotine-N-Gluc
0511150000607	13	0160	3	4	2110	1	OK		Nicotine-N-Gluc
0511150000608	13	0160	4	5	658	1	OK		Nicotine-N-Gluc
0511150000609	13	0160	5	6	596	1	OK		Nicotine-N-Gluc
0511150000610	15	0187	-1	0	989	1	OK		Nicotine-N-Gluc
0511150000611	15	0187	0	1	598	1	OK		Nicotine-N-Gluc
0511150000612	15	0187	1	2	735	1	OK		Nicotine-N-Gluc
0511150000613	15	0187	2	3	1060	1	OK		Nicotine-N-Gluc
0511150000614	15	0187	3	4	1250	1	OK		Nicotine-N-Gluc
0511150000615	15	0187	4	5	585	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000616	15	0187	5	6	412	1	OK		Nicotine-N-Gluc
05111500000617	15	0191	-1	0	271	1	OK		Nicotine-N-Gluc
051 1500000618	15	0191	0	1	337	1	OK		Nicotine-N-Gluc
05111500000619	15	0191	1	2	438	1	OK		Nicotine-N-Gluc
05111500000620	15	0191	2	3	437	1	OK		Nicotine-N-Gluc
05111500000621	15	0191	3	4	616	1	OK		Nicotine-N-Gluc
05111500000622	15	0191	4	5	387	1	OK		Nicotine-N-Gluc
05111500000623	15	0191	5	6	195	1	OK		Nicotine-N-Gluc
05111500000694	30	0198	-1	0	460	1	OK		Nicotine-N-Gluc
05111500000695	30	0198	0	1	1230	1	OK		Nicotine-N-Gluc
05111500000696	30	0198	1	2	869	1	OK		Nicotine-N-Gluc
05111500000697	30	0198	2	3	1350	1	OK		Nicotine-N-Gluc
05111500000698	30	0198	3	4	1150	1	OK		Nicotine-N-Gluc
05111500000699	30	0198	4	5	904	1	OK		Nicotine-N-Gluc
05111500000700	30	0198	5	6	741	1	OK		Nicotine-N-Gluc
05111500000701	30	0200	-1	0	406	1	OK		Nicotine-N-Gluc
05111500000702	30	0200	0	1	746	1	OK		Nicotine-N-Gluc
05111500000703	30	0200	1	2	673	1	OK		Nicotine-N-Gluc
05111500000704	30	0200	2	3	662	1	OK		Nicotine-N-Gluc
05111500000705	30	0200	3	4	947	1	OK		Nicotine-N-Gluc
05111500000706	30	0200	4	5	708	1	OK		Nicotine-N-Gluc
05111500000707	30	0200	5	6	421	1	OK		Nicotine-N-Gluc
05111500000708	30	0204	-1	0	209	1	OK		Nicotine-N-Gluc
05111500000709	30	0204	0	1	453	1	OK		Nicotine-N-Gluc
05111500000710	30	0204	1	2	330	1	OK		Nicotine-N-Gluc
05111500000711	30	0204	2	3	285	1	OK		Nicotine-N-Gluc
05111500000712	30	0204	3	4	414	1	OK		Nicotine-N-Gluc
05111500000713	30	0204	4	5	377	1	OK		Nicotine-N-Gluc
05111500000714	30	0204	5	6	285	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000715	19	0224	-1	0	440	1	OK		Nicotine-N-Gluc
05111500000716	19	0224	0	1	766	1	OK		Nicotine-N-Gluc
051 1500000717	19	0224	1	2	472	1	OK		Nicotine-N-Gluc
05111500000718	19	0224	2	3	593	1	OK		Nicotine-N-Gluc
05111500000719	19	0224	3	4	718	1	OK		Nicotine-N-Gluc
05111500000720	19	0224	4	5	578	1	OK		Nicotine-N-Gluc
05111500000721	19	0224	5	6	636	1	OK		Nicotine-N-Gluc
05111500000722	19	0229	-1	0	300	1	OK		Nicotine-N-Gluc
05111500000723	19	0229	0	1	282	1	OK		Nicotine-N-Gluc
05111500000724	19	0229	1	2	426	1	OK		Nicotine-N-Gluc
05111500000725	19	0229	2	3	421	1	OK		Nicotine-N-Gluc
05111500000726	19	0229	3	4	416	1	OK		Nicotine-N-Gluc
05111500000727	19	0229	4	5	382	1	OK		Nicotine-N-Gluc
05111500000728	19	0229	5	6	174	1	OK		Nicotine-N-Gluc
05111500000729	19	0230	-1	0	539	1	OK		Nicotine-N-Gluc
05111500000730	19	0230	0	1	1200	1	OK		Nicotine-N-Gluc
05111500000731	19	0230	1	2	795	1	OK		Nicotine-N-Gluc
05111500000732	19	0230	2	3	776	1	OK		Nicotine-N-Gluc
05111500000733	19	0230	3	4	890	1	OK		Nicotine-N-Gluc
05111500000734	19	0230	4	5	733	1	OK		Nicotine-N-Gluc
05111500000735	19	0230	5	6	672	1	OK		Nicotine-N-Gluc
05111500000736	21	0262	-1	0	236	1	OK		Nicotine-N-Gluc
05111500000737	21	0262	0	1	414	1	OK		Nicotine-N-Gluc
05111500000738	21	0262	1	2	350	1	OK		Nicotine-N-Gluc
05111500000739	21	0262	2	3	350	1	OK		Nicotine-N-Gluc
05111500000740	21	0262	3	4	601	1	OK		Nicotine-N-Gluc
05111500000741	21	0262	4	5	467	1	OK		Nicotine-N-Gluc
05111500000742	21	0262	5	6	171	1	OK		Nicotine-N-Gluc
05111500000743	23	0278	-1	0	602	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000744	23	0278	0	1	685	1	OK		Nicotine-N-Gluc
0511150000745	23	0278	1	2	833	1	OK		Nicotine-N-Gluc
051150000746	23	0278	2	3	949	1	OK		Nicotine-N-Gluc
0511150000747	23	0278	3	4	1020	1	OK		Nicotine-N-Gluc
0511150000748	23	0278	4	5	700	1	OK		Nicotine-N-Gluc
0511150000749	23	0278	5	6	782	1	OK		Nicotine-N-Gluc
0511150000750	23	0283	-1	0	437	1	OK		Nicotine-N-Gluc
0511150000751	23	0283	0	1	356	1	OK		Nicotine-N-Gluc
0511150000752	23	0283	1	2	320	1	OK		Nicotine-N-Gluc
0511150000753	23	0283	2	3	327	1	OK		Nicotine-N-Gluc
0511150000754	23	0283	3	4	277	1	OK		Nicotine-N-Gluc
0511150000755	23	0283	4	5	233	1	OK		Nicotine-N-Gluc
0511150000756	23	0283	5	6	153	1	OK		Nicotine-N-Gluc
0511150000757	23	0285	-1	0	452	1	OK		Nicotine-N-Gluc
0511150000758	23	0285	0	1	1160	1	OK		Nicotine-N-Gluc
0511150000759	23	0285	1	2	1150	1	OK		Nicotine-N-Gluc
0511150000760	23	0285	2	3	1640	1	OK		Nicotine-N-Gluc
0511150000761	23	0285	3	4	1320	1	OK		Nicotine-N-Gluc
0511150000762	23	0285	4	5	651	1	OK		Nicotine-N-Gluc
0511150000763	23	0285	5	6	1330	1	OK		Nicotine-N-Gluc
0511150000764	25	0298	-1	0	273	1	OK		Nicotine-N-Gluc
0511150000765	25	0298	0	1	465	1	OK		Nicotine-N-Gluc
0511150000766	25	0298	1	2	552	1	OK		Nicotine-N-Gluc
0511150000767	25	0298	2	3	340	1	OK		Nicotine-N-Gluc
0511150000768	25	0298	3	4	328	1	OK		Nicotine-N-Gluc
0511150000769	25	0298	4	5	282	1	OK		Nicotine-N-Gluc
0511150000770	25	0298	5	6	413	1	OK		Nicotine-N-Gluc
0511150000771	25	0313	-1	0	503	1	OK		Nicotine-N-Gluc
0511150000772	25	0313	0	1	662	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000773	25	0313	1	2	1020	1	OK		Nicotine-N-Gluc
05111500000774	25	0313	2	3	560	1	OK		Nicotine-N-Gluc
051 1500000775	25	0313	3	4	630	1	OK		Nicotine-N-Gluc
05111500000776	25	0313	4	5	461	1	OK		Nicotine-N-Gluc
05111500000777	25	0313	5	6	463	1	OK		Nicotine-N-Gluc
05111500000778	25	0315	-1	0	578	1	OK		Nicotine-N-Gluc
05111500000779	25	0315	0	1	803	1	OK		Nicotine-N-Gluc
05111500000780	25	0315	1	2	892	1	OK		Nicotine-N-Gluc
05111500000781	25	0315	2	3	1090	1	OK		Nicotine-N-Gluc
05111500000782	25	0315	3	4	1090	1	OK		Nicotine-N-Gluc
05111500000783	25	0315	4	5	742	1	OK		Nicotine-N-Gluc
05111500000784	25	0315	5	6	1040	1	OK		Nicotine-N-Gluc
05111500000785	25	0318	-1	0	243	1	OK		Nicotine-N-Gluc
05111500000786	25	0318	0	1	364	1	OK		Nicotine-N-Gluc
05111500000787	25	0318	1	2	429	1	OK		Nicotine-N-Gluc
05111500000788	25	0318	2	3	446	1	OK		Nicotine-N-Gluc
05111500000789	25	0318	3	4	408	1	OK		Nicotine-N-Gluc
05111500000790	25	0318	4	5	350	1	OK		Nicotine-N-Gluc
05111500000791	25	0318	5	6	597	1	OK		Nicotine-N-Gluc
05111500000792	27	0322	-1	0	490	1	OK		Nicotine-N-Gluc
05111500000793	27	0322	0	1	589	1	OK		Nicotine-N-Gluc
05111500000794	27	0322	1	2	422	1	OK		Nicotine-N-Gluc
05111500000795	27	0322	2	3	564	1	OK		Nicotine-N-Gluc
05111500000796	27	0322	3	4	483	1	OK		Nicotine-N-Gluc
05111500000797	27	0322	4	5	374	1	OK		Nicotine-N-Gluc
05111500000798	27	0322	5	6	375	1	OK		Nicotine-N-Gluc
05111500000799	27	0328	-1	0	618	1	OK		Nicotine-N-Gluc
05111500000800	27	0328	0	1	768	1	OK		Nicotine-N-Gluc
05111500000801	27	0328	1	2	424	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000802	27	0328	2	3	378	1	OK	Analysis not required	Nicotine-N-Gluc
0511150000803	27	0328	3	4	284	1	OK		Nicotine-N-Gluc
051 150000804	27	0328	4	5	163	1	OK		Nicotine-N-Gluc
0511150000805	27	0328	5	6	282	1	OK		Nicotine-N-Gluc
0511150000898		0067	0	1		2	OK	Analysis not required	Nicotine-N-Gluc
05111500001688	21	0264	-1	0	434	1	OK		Nicotine-N-Gluc
05111500001689	21	0264	0	1	446	1	OK		Nicotine-N-Gluc
05111500001690	21	0264	1	2	831	1	OK		Nicotine-N-Gluc
05111500001691	21	0264	2	3	1410	1	OK	Analysis not required	Nicotine-N-Gluc
05111500001692	21	0264	3	4	1380	1	OK		Nicotine-N-Gluc
05111500001693	21	0264	4	5	280	1	OK		Nicotine-N-Gluc
05111500001694	21	0264	5	6	73.2	1	OK		Nicotine-N-Gluc
05111500001702	21	0272	-1	0	499	1	OK	Analysis not required	Nicotine-N-Gluc
05111500001703	21	0272	0	1	603	1	OK		Nicotine-N-Gluc
05111500001704	21	0272	1	2	710	1	OK		Nicotine-N-Gluc
05111500001705	21	0272	2	3	1490	1	OK		Nicotine-N-Gluc
05111500001706	21	0272	3	4	1680	1	OK	Analysis not required	Nicotine-N-Gluc
05111500001707	21	0272	4	5	712	1	OK		Nicotine-N-Gluc
05111500001708	21	0272	5	6	1350	1	OK		Nicotine-N-Gluc
05111500001716	21	0276	-1	0	84.5	1	OK		Nicotine-N-Gluc
05111500001717	21	0276	0	1	138	1	OK	Analysis not required	Nicotine-N-Gluc
05111500001718	21	0276	1	2	144	1	OK		Nicotine-N-Gluc
05111500001719	21	0276	2	3	288	1	OK		Nicotine-N-Gluc
05111500001720	21	0276	3	4	352	1	OK		Nicotine-N-Gluc
05111500001721	21	0276	4	5	297	1	OK	Analysis not required	Nicotine-N-Gluc
05111500001722	21	0276	5	6	378	1	OK		Nicotine-N-Gluc
05111500001730	21	0277	-1	0	365	1	OK		Nicotine-N-Gluc
05111500001731	21	0277	0	1	516	1	OK		Nicotine-N-Gluc
05111500001732	21	0277	1	2	762	1	OK	Analysis not required	Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001733	21	0277	2	3	811	1	OK		Nicotine-N-Gluc
05111500001734	21	0277	3	4	751	1	OK		Nicotine-N-Gluc
051 1500001735	21	0277	4	5	465	1	OK		Nicotine-N-Gluc
05111500001736	21	0277	5	6	707	1	OK		Nicotine-N-Gluc
05111500001744	23	0279	-1	0	828	1	OK		Nicotine-N-Gluc
05111500001745	23	0279	0	1	658	1	OK		Nicotine-N-Gluc
05111500001746	23	0279	1	2	545	1	OK		Nicotine-N-Gluc
05111500001747	23	0279	2	3	727	1	OK		Nicotine-N-Gluc
05111500001748	23	0279	3	4	775	1	OK		Nicotine-N-Gluc
05111500001749	23	0279	4	5	459	1	OK		Nicotine-N-Gluc
05111500001750	23	0279	5	6	564	1	OK		Nicotine-N-Gluc
05111500001758	23	0281	-1	0	1410	1	OK		Nicotine-N-Gluc
05111500001759	23	0281	0	1	1850	1	OK		Nicotine-N-Gluc
05111500001760	23	0281	1	2	2040	1	OK		Nicotine-N-Gluc
05111500001761	23	0281	2	3	2130	1	OK		Nicotine-N-Gluc
05111500001762	23	0281	3	4	3520	1	OK		Nicotine-N-Gluc
05111500001763	23	0281	4	5	1970	1	OK		Nicotine-N-Gluc
05111500001764	23	0281	5	6	3410	1	OK		Nicotine-N-Gluc
05111500001772	23	0282	-1	0	220	1	OK		Nicotine-N-Gluc
05111500001773	23	0282	0	1	487	1	OK		Nicotine-N-Gluc
05111500001774	23	0282	1	2	350	1	OK		Nicotine-N-Gluc
05111500001775	23	0282	2	3	551	1	OK		Nicotine-N-Gluc
05111500001776	23	0282	3	4	754	1	OK		Nicotine-N-Gluc
05111500001777	23	0282	4	5	379	1	OK		Nicotine-N-Gluc
05111500001778	23	0282	5	6	209	1	OK		Nicotine-N-Gluc
05111500001786	23	0287	-1	0	749	1	OK		Nicotine-N-Gluc
05111500001787	23	0287	0	1	904	1	OK		Nicotine-N-Gluc
05111500001788	23	0287	1	2	1080	1	OK		Nicotine-N-Gluc
05111500001789	23	0287	2	3	1230	1	OK		Nicotine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001790	23	0287	3	4	1730	1	OK		Nicotine-N-Gluc
05111500001791	23	0287	4	5	1160	1	OK		Nicotine-N-Gluc
051 1500001792	23	0287	5	6	1750	1	OK		Nicotine-N-Gluc
05111500001800	23	0291	1	0	441	1	OK		Nicotine-N-Gluc
05111500001801	23	0291	0	1	520	1	OK		Nicotine-N-Gluc
05111500001802	23	0291	1	2	419	1	OK		Nicotine-N-Gluc
05111500001803	23	0291	2	3	689	1	OK		Nicotine-N-Gluc
05111500001804	23	0291	3	4	733	1	OK		Nicotine-N-Gluc
05111500001805	23	0291	4	5	774	1	OK		Nicotine-N-Gluc
05111500001806	23	0291	5	6	782	1	OK		Nicotine-N-Gluc
05111500001814	23	0296	-1	0	785	1	OK		Nicotine-N-Gluc
05111500001815	23	0296	0	1	875	1	OK		Nicotine-N-Gluc
05111500001816	23	0296	1	2	853	1	OK		Nicotine-N-Gluc
05111500001817	23	0296	2	3	1590	1	OK		Nicotine-N-Gluc
05111500001818	23	0296	3	4	1210	1	OK		Nicotine-N-Gluc
05111500001819	23	0296	4	5	1070	1	OK		Nicotine-N-Gluc
05111500001820	23	0296	5	6	1080	1	OK		Nicotine-N-Gluc
05111500001828	25	0300	-1	0	56.1	1	OK		Nicotine-N-Gluc
05111500001829	25	0300	0	1	53.8	1	OK		Nicotine-N-Gluc
05111500001830	25	0300	1	2	51.9	1	OK		Nicotine-N-Gluc
05111500001831	25	0300	2	3	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500001832	25	0300	3	4	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500001833	25	0300	4	5	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500001834	25	0300	5	6	BLQ<(50.0)	1	OK		Nicotine-N-Gluc
05111500001842	25	0301	-1	0	647	1	OK		Nicotine-N-Gluc
05111500001843	25	0301	0	1	1220	1	OK		Nicotine-N-Gluc
05111500001844	25	0301	1	2	726	1	OK		Nicotine-N-Gluc
05111500001845	25	0301	2	3	938	1	OK		Nicotine-N-Gluc
05111500001846	25	0301	3	4	1690	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001847	25	0301	4	5	893	1	OK		Nicotine-N-Gluc
05111500001848	25	0301	5	6	1250	1	OK		Nicotine-N-Gluc
051 1500001856	25	0307	-1	0	402	1	OK		Nicotine-N-Gluc
05111500001857	25	0307	0	1	670	1	OK		Nicotine-N-Gluc
05111500001858	25	0307	1	2	733	1	OK		Nicotine-N-Gluc
05111500001859	25	0307	2	3	1030	1	OK		Nicotine-N-Gluc
05111500001860	25	0307	3	4	1170	1	OK		Nicotine-N-Gluc
05111500001861	25	0307	4	5	846	1	OK		Nicotine-N-Gluc
05111500001862	25	0307	5	6	1000	1	OK		Nicotine-N-Gluc
05111500001870	25	0308	-1	0	1540	1	OK		Nicotine-N-Gluc
05111500001871	25	0308	0	1	2890	1	OK		Nicotine-N-Gluc
05111500001872	25	0308	1	2	2230	1	OK		Nicotine-N-Gluc
05111500001873	25	0308	2	3	2380	1	OK		Nicotine-N-Gluc
05111500001874	25	0308	3	4	2670	1	OK		Nicotine-N-Gluc
05111500001875	25	0308	4	5	1720	1	OK		Nicotine-N-Gluc
05111500001876	25	0308	5	6	2260	1	OK		Nicotine-N-Gluc
05111500001884	25	0316	-1	0	185	1	OK		Nicotine-N-Gluc
05111500001885	25	0316	0	1	211	1	OK		Nicotine-N-Gluc
05111500001886	25	0316	1	2	429	1	OK		Nicotine-N-Gluc
05111500001887	25	0316	2	3	406	1	OK		Nicotine-N-Gluc
05111500001888	25	0316	3	4	311	1	OK		Nicotine-N-Gluc
05111500001889	25	0316	4	5	207	1	OK		Nicotine-N-Gluc
05111500001890	25	0316	5	6	152	1	OK		Nicotine-N-Gluc
05111500001898	27	0320	-1	0	459	1	OK		Nicotine-N-Gluc
05111500001899	27	0320	0	1	698	1	OK		Nicotine-N-Gluc
05111500001900	27	0320	1	2	463	1	OK		Nicotine-N-Gluc
05111500001901	27	0320	2	3	409	1	OK		Nicotine-N-Gluc
05111500001902	27	0320	3	4	451	1	OK		Nicotine-N-Gluc
05111500001903	27	0320	4	5	499	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001904	27	0320	5	6	618	1	OK		Nicotine-N-Gluc
05111500001912	27	0321	-1	0	592	1	OK		Nicotine-N-Gluc
051 1500001913	27	0321	0	1	833	1	OK		Nicotine-N-Gluc
05111500001914	27	0321	1	2	1170	1	OK		Nicotine-N-Gluc
05111500001915	27	0321	2	3	2020	1	OK		Nicotine-N-Gluc
05111500001916	27	0321	3	4	2300	1	OK		Nicotine-N-Gluc
05111500001917	27	0321	4	5	1290	1	OK		Nicotine-N-Gluc
05111500001918	27	0321	5	6	2340	1	OK		Nicotine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 24 Study Sample Concentrations for Cotinine-*N*-Glucuronide

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000001	3	0025	-1	0	912	1	OK		Cotinine-N-Gluc
05111500000002	3	0025	0	1	1160	1	OK		Cotinine-N-Gluc
05111500000003	3	0025	1	2	1250	1	OK		Cotinine-N-Gluc
05111500000004	3	0025	2	3	1130	1	OK		Cotinine-N-Gluc
05111500000005	3	0025	3	4	918	1	OK		Cotinine-N-Gluc
05111500000006	3	0025	4	5	1140	1	OK		Cotinine-N-Gluc
05111500000007	3	0025	5	6	593	1	OK		Cotinine-N-Gluc
05111500000008	3	0029	-1	0	4410	1	OK		Cotinine-N-Gluc
05111500000009	3	0029	0	1	1180	1	OK		Cotinine-N-Gluc
05111500000010	3	0029	1	2	3670	1	OK		Cotinine-N-Gluc
05111500000011	3	0029	2	3	3990	1	OK		Cotinine-N-Gluc
05111500000012	3	0029	3	4	2920	1	OK		Cotinine-N-Gluc
05111500000013	3	0029	4	5	3800	1	OK		Cotinine-N-Gluc
05111500000014	3	0029	5	6	3010	1	OK		Cotinine-N-Gluc
05111500000015	3	0035	-1	0	2320	1	OK		Cotinine-N-Gluc
05111500000016	3	0035	0	1	2650	1	OK		Cotinine-N-Gluc
05111500000017	3	0035	1	2	2400	1	OK		Cotinine-N-Gluc
05111500000018	3	0035	2	3	2540	1	OK		Cotinine-N-Gluc
05111500000019	3	0035	3	4	2300	1	OK		Cotinine-N-Gluc
05111500000020	3	0035	4	5	2920	1	OK		Cotinine-N-Gluc
05111500000021	3	0035	5	6	3170	1	OK		Cotinine-N-Gluc
05111500000022	3	0037	-1	0	6410	1	OK		Cotinine-N-Gluc
05111500000023	3	0037	0	1	6130	1	OK		Cotinine-N-Gluc
05111500000024	3	0037	1	2	5460	1	OK		Cotinine-N-Gluc
05111500000025	3	0037	2	3	4590	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000026	3	0037	3	4	5790	1	OK		Cotinine-N-Gluc
05111500000027	3	0037	4	5	4700	1	OK		Cotinine-N-Gluc
05111500000028	3	0037	5	6	5400	1	OK		Cotinine-N-Gluc
05111500000029	5	0042	-1	0	2180	1	OK		Cotinine-N-Gluc
05111500000030	5	0042	0	1	2720	1	OK		Cotinine-N-Gluc
05111500000031	5	0042	1	2	2760	1	OK		Cotinine-N-Gluc
05111500000032	5	0042	2	3	1640	1	OK		Cotinine-N-Gluc
05111500000033	5	0042	3	4	5020	1	OK		Cotinine-N-Gluc
05111500000034	5	0042	4	5	2250	1	OK		Cotinine-N-Gluc
05111500000035	5	0042	5	6	2830	1	OK		Cotinine-N-Gluc
05111500000036	5	0053	-1	0	1660	1	OK		Cotinine-N-Gluc
05111500000037	5	0053	0	1	1670	1	OK		Cotinine-N-Gluc
05111500000038	5	0053	1	2	2500	1	OK		Cotinine-N-Gluc
05111500000039	5	0053	2	3	2170	1	OK		Cotinine-N-Gluc
05111500000040	5	0053	3	4	2330	1	OK		Cotinine-N-Gluc
05111500000041	5	0053	4	5	1610	1	OK		Cotinine-N-Gluc
05111500000042	5	0053	5	6	2260	1	OK		Cotinine-N-Gluc
05111500000043	5	0055	-1	0	3460	1	OK		Cotinine-N-Gluc
05111500000044	5	0055	0	1	2900	1	OK		Cotinine-N-Gluc
05111500000045	5	0055	1	2	3330	1	OK		Cotinine-N-Gluc
05111500000046	5	0055	2	3	2970	1	OK		Cotinine-N-Gluc
05111500000047	5	0055	3	4	1820	1	OK		Cotinine-N-Gluc
05111500000048	5	0055	4	5	2820	1	OK		Cotinine-N-Gluc
05111500000049	5	0055	5	6	3060	1	OK		Cotinine-N-Gluc
05111500000050	5	0064	-1	0	1560	1	OK		Cotinine-N-Gluc
05111500000051	5	0064	0	1	2820	1	OK		Cotinine-N-Gluc
05111500000052	5	0064	1	2	2120	1	OK		Cotinine-N-Gluc
05111500000053	5	0064	2	3	1640	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000054	5	0064	3	4	2310	1	OK		Cotinine-N-Gluc
05111500000055	5	0064	4	5	1970	1	OK		Cotinine-N-Gluc
05111500000056	5	0064	5	6	3220	1	OK		Cotinine-N-Gluc
05111500000057	7	0067	-1	0	2070	1	OK		Cotinine-N-Gluc
05111500000058	7	0067	0	1	3110	1	OK		Cotinine-N-Gluc
05111500000059	7	0067	1	2	2850	1	OK		Cotinine-N-Gluc
05111500000060	7	0067	2	3	2100	1	OK		Cotinine-N-Gluc
05111500000061	7	0067	3	4	1640	1	OK		Cotinine-N-Gluc
05111500000062	7	0067	4	5	1450	1	OK		Cotinine-N-Gluc
05111500000063	7	0067	5	6	1310	1	OK		Cotinine-N-Gluc
05111500000064	7	0072	-1	0	2300	1	OK		Cotinine-N-Gluc
05111500000065	7	0072	0	1	1510	1	OK		Cotinine-N-Gluc
05111500000066	7	0072	1	2	1860	1	OK		Cotinine-N-Gluc
05111500000067	7	0072	2	3	2290	1	OK		Cotinine-N-Gluc
05111500000068	7	0072	3	4	3320	1	OK		Cotinine-N-Gluc
05111500000069	7	0072	4	5	1410	1	OK		Cotinine-N-Gluc
05111500000070	7	0072	5	6	1470	1	OK		Cotinine-N-Gluc
05111500000071	7	0080	-1	0	4680	1	OK		Cotinine-N-Gluc
05111500000072	7	0080	0	1	3180	1	OK		Cotinine-N-Gluc
05111500000073	7	0080	1	2	3480	1	OK		Cotinine-N-Gluc
05111500000074	7	0080	2	3	3560	1	OK		Cotinine-N-Gluc
05111500000075	7	0080	3	4	3320	1	OK		Cotinine-N-Gluc
05111500000076	7	0080	4	5	1870	1	OK		Cotinine-N-Gluc
05111500000077	7	0080	5	6	2140	1	OK		Cotinine-N-Gluc
05111500000078	7	0087	-1	0	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500000079	7	0087	0	1	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500000080	7	0087	1	2	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500000081	7	0087	2	3	BLQ<(200)	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000082	7	0087	3	4	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000083	7	0087	4	5	BLQ<(200)	1	OK		Cotinine-N-Gluc
051 150000084	7	0087	5	6	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000085	9	0105	1	0	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000086	9	0105	0	1	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000087	9	0105	1	2	292	1	OK		Cotinine-N-Gluc
0511150000088	9	0105	2	3	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000089	9	0105	3	4	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000090	9	0105	4	5	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000091	9	0105	5	6	BLQ<(200)	1	OK		Cotinine-N-Gluc
0511150000092	9	0117	-1	0	1330	1	OK		Cotinine-N-Gluc
0511150000093	9	0117	0	1	2090	1	OK		Cotinine-N-Gluc
0511150000094	9	0117	1	2	2850	1	OK		Cotinine-N-Gluc
0511150000095	9	0117	2	3	3100	1	OK		Cotinine-N-Gluc
0511150000096	9	0117	3	4	2700	1	OK		Cotinine-N-Gluc
0511150000097	9	0117	4	5	1880	1	OK		Cotinine-N-Gluc
0511150000098	9	0117	5	6	1120	1	OK		Cotinine-N-Gluc
0511150000099	9	0118	-1	0	3720	1	OK		Cotinine-N-Gluc
0511150000100	9	0118	0	1	3780	1	OK		Cotinine-N-Gluc
0511150000101	9	0118	1	2	4340	1	OK		Cotinine-N-Gluc
0511150000102	9	0118	2	3	3990	1	OK		Cotinine-N-Gluc
0511150000103	9	0118	3	4	5390	1	OK		Cotinine-N-Gluc
0511150000104	9	0118	4	5	3390	1	OK		Cotinine-N-Gluc
0511150000105	9	0118	5	6	3860	1	OK		Cotinine-N-Gluc
0511150000106	11	0121	-1	0	1560	1	OK		Cotinine-N-Gluc
0511150000107	11	0121	0	1	2270	1	OK		Cotinine-N-Gluc
0511150000108	11	0121	1	2	1580	1	OK		Cotinine-N-Gluc
0511150000109	11	0121	2	3	1230	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000110	11	0121	3	4	1310	1	OK		Cotinine-N-Gluc
05111500000111	11	0121	4	5	882	1	OK		Cotinine-N-Gluc
051 1500000112	11	0121	5	6	838	1	OK		Cotinine-N-Gluc
05111500000113	1	0001	1	0	1360	1	OK		Cotinine-N-Gluc
05111500000114	1	0001	0	1	2690	1	OK		Cotinine-N-Gluc
05111500000115	1	0001	1	2	2780	1	OK		Cotinine-N-Gluc
05111500000116	1	0001	2	3	4060	1	OK		Cotinine-N-Gluc
05111500000117	1	0001	3	4	4370	1	OK		Cotinine-N-Gluc
05111500000118	1	0001	4	5	4150	1	OK		Cotinine-N-Gluc
05111500000119	1	0001	5	6	4520	1	OK		Cotinine-N-Gluc
05111500000120	1	0004	-1	0	4500	1	OK		Cotinine-N-Gluc
05111500000121	1	0004	0	1	3770	1	OK		Cotinine-N-Gluc
05111500000122	1	0004	1	2	4290	1	OK		Cotinine-N-Gluc
05111500000123	1	0004	2	3	3750	1	OK		Cotinine-N-Gluc
05111500000124	1	0004	3	4	4700	1	OK		Cotinine-N-Gluc
05111500000125	1	0004	4	5	3920	1	OK		Cotinine-N-Gluc
05111500000126	1	0004	5	6	2020	1	OK		Cotinine-N-Gluc
05111500000127	1	0008	-1	0	5580	1	OK		Cotinine-N-Gluc
05111500000128	1	0008	0	1	4510	1	OK		Cotinine-N-Gluc
05111500000129	1	0008	1	2	4080	1	OK		Cotinine-N-Gluc
05111500000130	1	0008	2	3	3330	1	OK		Cotinine-N-Gluc
05111500000131	1	0008	3	4	5060	1	OK		Cotinine-N-Gluc
05111500000132	1	0008	4	5	6530	1	OK		Cotinine-N-Gluc
05111500000133	1	0008	5	6	4230	1	OK		Cotinine-N-Gluc
05111500000134	1	0011	-1	0	2300	1	OK		Cotinine-N-Gluc
05111500000135	1	0011	0	1	3840	1	OK		Cotinine-N-Gluc
05111500000136	1	0011	1	2	4270	1	OK		Cotinine-N-Gluc
05111500000137	1	0011	2	3	3000	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000138	1	0011	3	4	4160	1	OK		Cotinine-N-Gluc
05111500000139	1	0011	4	5	5090	1	OK		Cotinine-N-Gluc
051 1500000140	1	0011	5	6	4350	1	OK		Cotinine-N-Gluc
05111500000141	1	0014	1	0	2250	1	OK		Cotinine-N-Gluc
05111500000142	1	0014	0	1	2190	1	OK		Cotinine-N-Gluc
05111500000143	1	0014	1	2	1670	1	OK		Cotinine-N-Gluc
05111500000144	1	0014	2	3	1710	1	OK		Cotinine-N-Gluc
05111500000145	1	0014	3	4	2020	1	OK		Cotinine-N-Gluc
05111500000146	1	0014	4	5	2060	1	OK		Cotinine-N-Gluc
05111500000147	1	0014	5	6	2680	1	OK		Cotinine-N-Gluc
05111500000148	1	0016	-1	0	6510	1	OK		Cotinine-N-Gluc
05111500000149	1	0016	0	1	1610	1	OK		Cotinine-N-Gluc
05111500000150	1	0016	1	2	3870	1	OK		Cotinine-N-Gluc
05111500000151	1	0016	2	3	3260	1	OK		Cotinine-N-Gluc
05111500000152	1	0016	3	4	5060	1	OK		Cotinine-N-Gluc
05111500000153	1	0016	4	5	8090	1	OK		Cotinine-N-Gluc
05111500000154	1	0016	5	6	7220	1	OK		Cotinine-N-Gluc
05111500000155	1	0020	-1	0	2220	1	OK		Cotinine-N-Gluc
05111500000156	1	0020	0	1	2170	1	OK		Cotinine-N-Gluc
05111500000157	1	0020	1	2	2040	1	OK		Cotinine-N-Gluc
05111500000158	1	0020	2	3	2880	1	OK		Cotinine-N-Gluc
05111500000159	1	0020	3	4	2680	1	OK		Cotinine-N-Gluc
05111500000160	1	0020	4	5	3140	1	OK		Cotinine-N-Gluc
05111500000161	1	0020	5	6	978	1	OK		Cotinine-N-Gluc
05111500000162	1	0021	-1	0	1510	1	OK		Cotinine-N-Gluc
05111500000163	1	0021	0	1	1690	1	OK		Cotinine-N-Gluc
05111500000164	1	0021	1	2	2200	1	OK		Cotinine-N-Gluc
05111500000165	1	0021	2	3	3120	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000166	1	0021	3	4	1460	1	OK		Cotinine-N-Gluc
05111500000167	1	0021	4	5	1390	1	OK		Cotinine-N-Gluc
051 1500000168	1	0021	5	6	1780	1	OK		Cotinine-N-Gluc
05111500000169	1	0022	1	0	3430	1	OK		Cotinine-N-Gluc
05111500000170	1	0022	0	1	3050	1	OK		Cotinine-N-Gluc
05111500000171	1	0022	1	2	1740	1	OK		Cotinine-N-Gluc
05111500000172	1	0022	2	3	1130	1	OK		Cotinine-N-Gluc
05111500000173	1	0022	3	4	1980	1	OK		Cotinine-N-Gluc
05111500000174	1	0022	4	5	2230	1	OK		Cotinine-N-Gluc
05111500000175	1	0022	5	6	2060	1	OK		Cotinine-N-Gluc
05111500000176	3	0023	-1	0	3100	1	OK		Cotinine-N-Gluc
05111500000177	3	0023	0	1	1990	1	OK		Cotinine-N-Gluc
05111500000178	3	0023	1	2	1710	1	OK		Cotinine-N-Gluc
05111500000179	3	0023	2	3	1230	1	OK		Cotinine-N-Gluc
05111500000180	3	0023	3	4	2070	1	OK		Cotinine-N-Gluc
05111500000181	3	0023	4	5	3050	1	OK		Cotinine-N-Gluc
05111500000182	3	0023	5	6	3650	1	OK		Cotinine-N-Gluc
05111500000183	3	0030	-1	0	4620	1	OK		Cotinine-N-Gluc
05111500000184	3	0030	0	1	3390	1	OK		Cotinine-N-Gluc
05111500000185	3	0030	1	2	3050	1	OK		Cotinine-N-Gluc
05111500000186	3	0030	2	3	1390	1	OK		Cotinine-N-Gluc
05111500000187	3	0030	3	4	2190	1	OK		Cotinine-N-Gluc
05111500000188	3	0030	4	5	4500	1	OK		Cotinine-N-Gluc
05111500000189	3	0030	5	6	3240	1	OK		Cotinine-N-Gluc
05111500000190	3	0031	-1	0	5410	1	OK		Cotinine-N-Gluc
05111500000191	3	0031	0	1	7800	1	OK		Cotinine-N-Gluc
05111500000192	3	0031	1	2	6200	1	OK		Cotinine-N-Gluc
05111500000193	3	0031	2	3	5280	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000194	3	0031	3	4	5710	1	OK		Cotinine-N-Gluc
05111500000195	3	0031	4	5	5020	1	OK		Cotinine-N-Gluc
051 1500000196	3	0031	5	6	4680	1	OK		Cotinine-N-Gluc
05111500000197	3	0034	1	0	1910	1	OK		Cotinine-N-Gluc
05111500000198	3	0034	0	1	1570	1	OK		Cotinine-N-Gluc
05111500000199	3	0034	1	2	2150	1	OK		Cotinine-N-Gluc
05111500000200	3	0034	2	3	2270	1	OK		Cotinine-N-Gluc
05111500000201	3	0034	3	4	3650	1	OK		Cotinine-N-Gluc
05111500000202	3	0034	4	5	4680	1	OK		Cotinine-N-Gluc
05111500000203	3	0034	5	6	1640	1	OK		Cotinine-N-Gluc
05111500000204	3	0038	-1	0	4430	1	OK		Cotinine-N-Gluc
05111500000205	3	0038	0	1	3350	1	OK		Cotinine-N-Gluc
05111500000206	3	0038	1	2	3660	1	OK		Cotinine-N-Gluc
05111500000207	3	0038	2	3	2070	1	OK		Cotinine-N-Gluc
05111500000208	3	0038	3	4	2800	1	OK		Cotinine-N-Gluc
05111500000209	3	0038	4	5	3170	1	OK		Cotinine-N-Gluc
05111500000210	3	0038	5	6	3100	1	OK		Cotinine-N-Gluc
05111500000211	5	0039	-1	0	981	1	OK		Cotinine-N-Gluc
05111500000212	5	0039	0	1	1200	1	OK		Cotinine-N-Gluc
05111500000213	5	0039	1	2	2240	1	OK		Cotinine-N-Gluc
05111500000214	5	0039	2	3	737	1	OK		Cotinine-N-Gluc
05111500000215	5	0039	3	4	1420	1	OK		Cotinine-N-Gluc
05111500000216	5	0039	4	5	1640	1	OK		Cotinine-N-Gluc
05111500000217	5	0039	5	6	1150	1	OK		Cotinine-N-Gluc
05111500000218	5	0044	-1	0	2460	1	OK		Cotinine-N-Gluc
05111500000219	5	0044	0	1	2680	1	OK		Cotinine-N-Gluc
05111500000220	5	0044	1	2	2990	1	OK		Cotinine-N-Gluc
05111500000221	5	0044	2	3	2350	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000222	5	0044	3	4	1640	1	OK		Cotinine-N-Gluc
05111500000223	5	0044	4	5	1560	1	OK		Cotinine-N-Gluc
051 1500000224	5	0044	5	6	1260	1	OK		Cotinine-N-Gluc
05111500000225	5	0057	1	0	4460	1	OK		Cotinine-N-Gluc
05111500000226	5	0057	0	1	3420	1	OK		Cotinine-N-Gluc
05111500000227	5	0057	1	2	4250	1	OK		Cotinine-N-Gluc
05111500000228	5	0057	2	3	2910	1	OK		Cotinine-N-Gluc
05111500000229	5	0057	3	4	4330	1	OK		Cotinine-N-Gluc
05111500000230	5	0057	4	5	3940	1	OK		Cotinine-N-Gluc
05111500000231	5	0057	5	6	3570	1	OK		Cotinine-N-Gluc
05111500000232	5	0060	-1	0	5130	1	OK		Cotinine-N-Gluc
05111500000233	5	0060	0	1	3280	1	OK		Cotinine-N-Gluc
05111500000234	5	0060	1	2	3600	1	OK		Cotinine-N-Gluc
05111500000235	5	0060	2	3	3620	1	OK		Cotinine-N-Gluc
05111500000236	5	0060	3	4	4280	1	OK		Cotinine-N-Gluc
05111500000237	5	0060	4	5	5180	1	OK		Cotinine-N-Gluc
05111500000238	5	0060	5	6	5270	1	OK		Cotinine-N-Gluc
05111500000239	5	0066	-1	0	1510	1	OK		Cotinine-N-Gluc
05111500000240	5	0066	0	1	2590	1	OK		Cotinine-N-Gluc
05111500000241	5	0066	1	2	1590	1	OK		Cotinine-N-Gluc
05111500000242	5	0066	2	3	2300	1	OK		Cotinine-N-Gluc
05111500000243	5	0066	3	4	2660	1	OK		Cotinine-N-Gluc
05111500000244	5	0066	4	5	1800	1	OK		Cotinine-N-Gluc
05111500000245	5	0066	5	6	1350	1	OK		Cotinine-N-Gluc
05111500000246	7	0069	-1	0	2090	1	OK		Cotinine-N-Gluc
05111500000247	7	0069	0	1	2430	1	OK		Cotinine-N-Gluc
05111500000248	7	0069	1	2	4070	1	OK		Cotinine-N-Gluc
05111500000249	7	0069	2	3	3180	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000250	7	0069	3	4	3550	1	OK		Cotinine-N-Gluc
05111500000251	7	0069	4	5	3210	1	OK		Cotinine-N-Gluc
051 1500000252	7	0069	5	6	3080	1	OK		Cotinine-N-Gluc
05111500000253	7	0074	1	0	6930	1	OK		Cotinine-N-Gluc
05111500000254	7	0074	0	1	5560	1	OK		Cotinine-N-Gluc
05111500000255	7	0074	1	2	6400	1	OK		Cotinine-N-Gluc
05111500000256	7	0074	2	3	5660	1	OK		Cotinine-N-Gluc
05111500000257	7	0074	3	4	6180	1	OK		Cotinine-N-Gluc
05111500000258	7	0074	4	5	4200	1	OK		Cotinine-N-Gluc
05111500000259	7	0074	5	6	4080	1	OK		Cotinine-N-Gluc
05111500000260	7	0083	-1	0	3190	1	OK		Cotinine-N-Gluc
05111500000261	7	0083	0	1	3190	1	OK		Cotinine-N-Gluc
05111500000262	7	0083	1	2	3200	1	OK		Cotinine-N-Gluc
05111500000263	7	0083	2	3	2850	1	OK		Cotinine-N-Gluc
05111500000264	7	0083	3	4	3450	1	OK		Cotinine-N-Gluc
05111500000265	7	0083	4	5	3440	1	OK		Cotinine-N-Gluc
05111500000266	7	0083	5	6	2790	1	OK		Cotinine-N-Gluc
05111500000267	7	0085	-1	0	2280	1	OK		Cotinine-N-Gluc
05111500000268	7	0085	0	1	2700	1	OK		Cotinine-N-Gluc
05111500000269	7	0085	1	2	2930	1	OK		Cotinine-N-Gluc
05111500000270	7	0085	2	3	2070	1	OK		Cotinine-N-Gluc
05111500000274	7	0088	-1	0	2430	1	OK		Cotinine-N-Gluc
05111500000275	7	0088	0	1	2310	1	OK		Cotinine-N-Gluc
05111500000276	7	0088	1	2	3460	1	OK		Cotinine-N-Gluc
05111500000277	7	0088	2	3	1520	1	OK		Cotinine-N-Gluc
05111500000278	7	0088	3	4	1310	1	OK		Cotinine-N-Gluc
05111500000279	7	0088	4	5	895	1	OK		Cotinine-N-Gluc
05111500000280	7	0088	5	6	1200	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000281	9	0090	-1	0	1330	1	OK		Cotinine-N-Gluc
05111500000282	9	0090	0	1	1190	1	OK		Cotinine-N-Gluc
051 1500000283	9	0090	1	2	1690	1	OK		Cotinine-N-Gluc
05111500000284	9	0090	2	3	1310	1	OK		Cotinine-N-Gluc
05111500000285	9	0090	3	4	1230	1	OK		Cotinine-N-Gluc
05111500000286	9	0090	4	5	756	1	OK		Cotinine-N-Gluc
05111500000287	9	0090	5	6	1070	1	OK		Cotinine-N-Gluc
05111500000288	9	0093	-1	0	4110	1	OK		Cotinine-N-Gluc
05111500000289	9	0093	0	1	4160	1	OK		Cotinine-N-Gluc
05111500000290	9	0093	1	2	5090	1	OK		Cotinine-N-Gluc
05111500000291	9	0093	2	3	4640	1	OK		Cotinine-N-Gluc
05111500000292	9	0093	3	4	5160	1	OK		Cotinine-N-Gluc
05111500000293	9	0093	4	5	4570	1	OK		Cotinine-N-Gluc
05111500000294	9	0093	5	6	3470	1	OK		Cotinine-N-Gluc
05111500000295	9	0106	-1	0	1060	1	OK		Cotinine-N-Gluc
05111500000296	9	0106	0	1	1060	1	OK		Cotinine-N-Gluc
05111500000297	9	0106	1	2	923	1	OK		Cotinine-N-Gluc
05111500000298	9	0106	2	3	726	1	OK		Cotinine-N-Gluc
05111500000299	9	0106	3	4	798	1	OK		Cotinine-N-Gluc
05111500000300	9	0106	4	5	531	1	OK		Cotinine-N-Gluc
05111500000301	9	0106	5	6	466	1	OK		Cotinine-N-Gluc
05111500000302	9	0107	-1	0	10900	1	OK		Cotinine-N-Gluc
05111500000303	9	0107	0	1	5120	1	OK		Cotinine-N-Gluc
05111500000304	9	0107	1	2	5510	1	OK		Cotinine-N-Gluc
05111500000305	9	0107	2	3	3260	1	OK		Cotinine-N-Gluc
05111500000306	9	0107	3	4	3130	1	OK		Cotinine-N-Gluc
05111500000307	9	0107	4	5	2990	1	OK		Cotinine-N-Gluc
05111500000308	9	0107	5	6	1970	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000309	9	0110	-1	0	3200	1	OK		Cotinine-N-Gluc
0511150000310	9	0110	0	1	3710	1	OK		Cotinine-N-Gluc
051 150000311	9	0110	1	2	4400	1	OK		Cotinine-N-Gluc
0511150000312	9	0110	2	3	3940	1	OK		Cotinine-N-Gluc
0511150000313	9	0110	3	4	3890	1	OK		Cotinine-N-Gluc
0511150000314	9	0110	4	5	2520	1	OK		Cotinine-N-Gluc
0511150000315	9	0110	5	6	2740	1	OK		Cotinine-N-Gluc
0511150000316	9	0112	-1	0	4520	1	OK		Cotinine-N-Gluc
0511150000317	9	0112	0	1	3240	1	OK		Cotinine-N-Gluc
0511150000318	9	0112	1	2	3150	1	OK		Cotinine-N-Gluc
0511150000319	9	0112	2	3	2490	1	OK		Cotinine-N-Gluc
0511150000320	9	0112	3	4	3780	1	OK		Cotinine-N-Gluc
0511150000321	9	0112	4	5	2600	1	OK		Cotinine-N-Gluc
0511150000322	9	0112	5	6	3350	1	OK		Cotinine-N-Gluc
0511150000323	11	0122	-1	0	2950	1	OK		Cotinine-N-Gluc
0511150000324	11	0122	0	1	1660	1	OK		Cotinine-N-Gluc
0511150000325	11	0122	1	2	1630	1	OK		Cotinine-N-Gluc
0511150000326	11	0122	2	3	2430	1	OK		Cotinine-N-Gluc
0511150000327	11	0122	3	4	2650	1	OK		Cotinine-N-Gluc
0511150000328	11	0122	4	5	2720	1	OK		Cotinine-N-Gluc
0511150000329	11	0122	5	6	1690	1	OK		Cotinine-N-Gluc
0511150000337	11	0129	-1	0	3800	1	OK		Cotinine-N-Gluc
0511150000338	11	0129	0	1	5210	1	OK		Cotinine-N-Gluc
0511150000339	11	0129	1	2	4320	1	OK		Cotinine-N-Gluc
0511150000340	11	0129	2	3	3410	1	OK		Cotinine-N-Gluc
0511150000341	11	0129	3	4	3320	1	OK		Cotinine-N-Gluc
0511150000342	11	0129	4	5	3990	1	OK		Cotinine-N-Gluc
0511150000343	11	0129	5	6	2630	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000344	11	0130	-1	0	8080	1	OK		Cotinine-N-Gluc
0511150000345	11	0130	0	1	5920	1	OK		Cotinine-N-Gluc
051 150000346	11	0130	1	2	5030	1	OK		Cotinine-N-Gluc
0511150000347	11	0130	2	3	4050	1	OK		Cotinine-N-Gluc
0511150000348	11	0130	3	4	6770	1	OK		Cotinine-N-Gluc
0511150000349	11	0130	4	5	5610	1	OK		Cotinine-N-Gluc
0511150000350	11	0130	5	6	3000	1	OK		Cotinine-N-Gluc
0511150000351	11	0134	-1	0	3650	1	OK		Cotinine-N-Gluc
0511150000352	11	0134	0	1	2820	1	OK		Cotinine-N-Gluc
0511150000353	11	0134	1	2	2860	1	OK		Cotinine-N-Gluc
0511150000354	11	0134	2	3	2420	1	OK		Cotinine-N-Gluc
0511150000355	11	0134	3	4	4640	1	OK		Cotinine-N-Gluc
0511150000356	11	0134	4	5	4270	1	OK		Cotinine-N-Gluc
0511150000357	11	0134	5	6	3900	1	OK		Cotinine-N-Gluc
0511150000358	11	0136	-1	0	5770	1	OK		Cotinine-N-Gluc
0511150000359	11	0136	0	1	5650	1	OK		Cotinine-N-Gluc
0511150000360	11	0136	1	2	8140	1	OK		Cotinine-N-Gluc
0511150000361	11	0136	2	3	5500	1	OK		Cotinine-N-Gluc
0511150000362	11	0136	3	4	7410	1	OK		Cotinine-N-Gluc
0511150000363	11	0136	4	5	3520	1	OK		Cotinine-N-Gluc
0511150000364	11	0136	5	6	3440	1	OK		Cotinine-N-Gluc
0511150000365	13	0147	-1	0	3100	1	OK		Cotinine-N-Gluc
0511150000366	13	0147	0	1	2580	1	OK		Cotinine-N-Gluc
0511150000367	13	0147	1	2	2830	1	OK		Cotinine-N-Gluc
0511150000368	13	0147	2	3	1470	1	OK		Cotinine-N-Gluc
0511150000369	13	0147	3	4	1800	1	OK		Cotinine-N-Gluc
0511150000370	13	0147	4	5	2450	1	OK		Cotinine-N-Gluc
0511150000371	13	0147	5	6	1590	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000372	13	0149	-1	0	1480	1	OK		Cotinine-N-Gluc
05111500000373	13	0149	0	1	1080	1	OK		Cotinine-N-Gluc
051 1500000374	13	0149	1	2	1180	1	OK		Cotinine-N-Gluc
05111500000375	13	0149	2	3	1610	1	OK		Cotinine-N-Gluc
05111500000376	13	0149	3	4	1770	1	OK		Cotinine-N-Gluc
05111500000377	13	0149	4	5	1130	1	OK		Cotinine-N-Gluc
05111500000378	13	0149	5	6	1290	1	OK		Cotinine-N-Gluc
05111500000379	13	0153	-1	0	2700	1	OK		Cotinine-N-Gluc
05111500000380	13	0153	0	1	3010	1	OK		Cotinine-N-Gluc
05111500000381	13	0153	1	2	2820	1	OK		Cotinine-N-Gluc
05111500000382	13	0153	2	3	2650	1	OK		Cotinine-N-Gluc
05111500000383	13	0153	3	4	3530	1	OK		Cotinine-N-Gluc
05111500000384	13	0153	4	5	2160	1	OK		Cotinine-N-Gluc
05111500000385	13	0153	5	6	1090	1	OK		Cotinine-N-Gluc
05111500000386	13	0155	-1	0	3250	1	OK		Cotinine-N-Gluc
05111500000387	13	0155	0	1	2760	1	OK		Cotinine-N-Gluc
05111500000388	13	0155	1	2	2940	1	OK		Cotinine-N-Gluc
05111500000389	13	0155	2	3	2460	1	OK		Cotinine-N-Gluc
05111500000390	13	0155	3	4	2200	1	OK		Cotinine-N-Gluc
05111500000391	13	0155	4	5	1650	1	OK		Cotinine-N-Gluc
05111500000392	13	0155	5	6	1220	1	OK		Cotinine-N-Gluc
05111500000393	13	0162	-1	0	1600	1	OK		Cotinine-N-Gluc
05111500000394	13	0162	0	1	2060	1	OK		Cotinine-N-Gluc
05111500000395	13	0162	1	2	2350	1	OK		Cotinine-N-Gluc
05111500000396	13	0162	2	3	3020	1	OK		Cotinine-N-Gluc
05111500000397	13	0162	3	4	5230	1	OK		Cotinine-N-Gluc
05111500000398	13	0162	4	5	3450	1	OK		Cotinine-N-Gluc
05111500000399	13	0162	5	6	3930	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000400	15	0167	-1	0	3620	1	OK		Cotinine-N-Gluc
0511150000401	15	0167	0	1	3580	1	OK		Cotinine-N-Gluc
051 150000402	15	0167	1	2	3970	1	OK		Cotinine-N-Gluc
0511150000403	15	0167	2	3	3850	1	OK		Cotinine-N-Gluc
0511150000404	15	0167	3	4	5110	1	OK		Cotinine-N-Gluc
0511150000405	15	0167	4	5	4150	1	OK		Cotinine-N-Gluc
0511150000406	15	0167	5	6	3670	1	OK		Cotinine-N-Gluc
0511150000407	15	0170	-1	0	1990	1	OK		Cotinine-N-Gluc
0511150000408	15	0170	0	1	1900	1	OK		Cotinine-N-Gluc
0511150000409	15	0170	1	2	1500	1	OK		Cotinine-N-Gluc
0511150000410	15	0170	2	3	1420	1	OK		Cotinine-N-Gluc
0511150000411	15	0170	3	4	1510	1	OK		Cotinine-N-Gluc
0511150000412	15	0170	4	5	1450	1	OK		Cotinine-N-Gluc
0511150000413	15	0170	5	6	873	1	OK		Cotinine-N-Gluc
0511150000414	15	0177	-1	0	4990	1	OK		Cotinine-N-Gluc
0511150000415	15	0177	0	1	5010	1	OK		Cotinine-N-Gluc
0511150000416	15	0177	1	2	4140	1	OK		Cotinine-N-Gluc
0511150000417	15	0177	2	3	3800	1	OK		Cotinine-N-Gluc
0511150000418	15	0177	3	4	5290	1	OK		Cotinine-N-Gluc
0511150000419	15	0177	4	5	4040	1	OK		Cotinine-N-Gluc
0511150000420	15	0177	5	6	4720	1	OK		Cotinine-N-Gluc
0511150000421	15	0181	-1	0	4890	1	OK		Cotinine-N-Gluc
0511150000422	15	0181	0	1	3810	1	OK		Cotinine-N-Gluc
0511150000423	15	0181	1	2	3330	1	OK		Cotinine-N-Gluc
0511150000424	15	0181	2	3	2050	1	OK		Cotinine-N-Gluc
0511150000425	15	0181	3	4	4020	1	OK		Cotinine-N-Gluc
0511150000426	15	0181	4	5	2800	1	OK		Cotinine-N-Gluc
0511150000427	15	0181	5	6	2310	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000428	15	0183	-1	0	1110	1	OK		Cotinine-N-Gluc
05111500000429	15	0183	0	1	896	1	OK		Cotinine-N-Gluc
051 1500000430	15	0183	1	2	770	1	OK		Cotinine-N-Gluc
05111500000431	15	0183	2	3	519	1	OK		Cotinine-N-Gluc
05111500000432	15	0183	3	4	432	1	OK		Cotinine-N-Gluc
05111500000433	15	0183	4	5	375	1	OK		Cotinine-N-Gluc
05111500000434	15	0183	5	6	507	1	OK		Cotinine-N-Gluc
05111500000435	15	0189	-1	0	1300	1	OK		Cotinine-N-Gluc
05111500000436	15	0189	0	1	1500	1	OK		Cotinine-N-Gluc
05111500000437	15	0189	1	2	1400	1	OK		Cotinine-N-Gluc
05111500000438	15	0189	2	3	1360	1	OK		Cotinine-N-Gluc
05111500000439	15	0189	3	4	1560	1	OK		Cotinine-N-Gluc
05111500000440	15	0189	4	5	2050	1	OK		Cotinine-N-Gluc
05111500000441	15	0189	5	6	2120	1	OK		Cotinine-N-Gluc
05111500000442	15	0190	-1	0	2550	1	OK		Cotinine-N-Gluc
05111500000443	15	0190	0	1	2100	1	OK		Cotinine-N-Gluc
05111500000444	15	0190	1	2	3460	1	OK		Cotinine-N-Gluc
05111500000445	15	0190	2	3	2430	1	OK		Cotinine-N-Gluc
05111500000446	15	0190	3	4	2700	1	OK		Cotinine-N-Gluc
05111500000447	15	0190	4	5	2260	1	OK		Cotinine-N-Gluc
05111500000448	15	0190	5	6	2440	1	OK		Cotinine-N-Gluc
05111500000449	30	0192	-1	0	3660	1	OK		Cotinine-N-Gluc
05111500000450	30	0192	0	1	3090	1	OK		Cotinine-N-Gluc
05111500000451	30	0192	1	2	2010	1	OK		Cotinine-N-Gluc
05111500000452	30	0192	2	3	2830	1	OK		Cotinine-N-Gluc
05111500000453	30	0192	3	4	3070	1	OK		Cotinine-N-Gluc
05111500000454	30	0192	4	5	1860	1	OK		Cotinine-N-Gluc
05111500000455	30	0192	5	6	2150	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000456	30	0193	-1	0	1850	1	OK		Cotinine-N-Gluc
05111500000457	30	0193	0	1	3560	1	OK		Cotinine-N-Gluc
051 1500000458	30	0193	1	2	2420	1	OK		Cotinine-N-Gluc
05111500000459	30	0193	2	3	1830	1	OK		Cotinine-N-Gluc
05111500000460	30	0193	3	4	2980	1	OK		Cotinine-N-Gluc
05111500000461	30	0193	4	5	2130	1	OK		Cotinine-N-Gluc
05111500000462	30	0193	5	6	1740	1	OK		Cotinine-N-Gluc
05111500000463	30	0195	-1	0	1470	1	OK		Cotinine-N-Gluc
05111500000464	30	0195	0	1	2390	1	OK		Cotinine-N-Gluc
05111500000465	30	0195	1	2	1590	1	OK		Cotinine-N-Gluc
05111500000466	30	0195	2	3	753	1	OK		Cotinine-N-Gluc
05111500000467	30	0195	3	4	815	1	OK		Cotinine-N-Gluc
05111500000468	30	0195	4	5	1800	1	OK		Cotinine-N-Gluc
05111500000469	30	0195	5	6	535	1	OK		Cotinine-N-Gluc
05111500000470	30	0196	-1	0	726	1	OK		Cotinine-N-Gluc
05111500000471	30	0196	0	1	867	1	OK		Cotinine-N-Gluc
05111500000472	30	0196	1	2	776	1	OK		Cotinine-N-Gluc
05111500000473	30	0196	2	3	392	1	OK		Cotinine-N-Gluc
05111500000474	30	0196	3	4	549	1	OK		Cotinine-N-Gluc
05111500000475	30	0196	4	5	935	1	OK		Cotinine-N-Gluc
05111500000476	30	0196	5	6	509	1	OK		Cotinine-N-Gluc
05111500000477	30	0202	-1	0	1940	1	OK		Cotinine-N-Gluc
05111500000478	30	0202	0	1	3870	1	OK		Cotinine-N-Gluc
05111500000479	30	0202	1	2	4640	1	OK		Cotinine-N-Gluc
05111500000480	30	0202	2	3	3990	1	OK		Cotinine-N-Gluc
05111500000481	30	0202	3	4	4690	1	OK		Cotinine-N-Gluc
05111500000482	30	0202	4	5	3340	1	OK		Cotinine-N-Gluc
05111500000483	30	0202	5	6	1390	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000484	30	0206	-1	0	2590	1	OK		Cotinine-N-Gluc
0511150000485	30	0206	0	1	4220	1	OK		Cotinine-N-Gluc
051 150000486	30	0206	1	2	3250	1	OK		Cotinine-N-Gluc
0511150000487	30	0206	2	3	2870	1	OK		Cotinine-N-Gluc
0511150000488	30	0206	3	4	3170	1	OK		Cotinine-N-Gluc
0511150000489	30	0206	4	5	3190	1	OK		Cotinine-N-Gluc
0511150000490	30	0206	5	6	2800	1	OK		Cotinine-N-Gluc
0511150000491	19	0210	-1	0	2480	1	OK		Cotinine-N-Gluc
0511150000492	19	0210	0	1	2240	1	OK		Cotinine-N-Gluc
0511150000493	19	0210	1	2	2320	1	OK		Cotinine-N-Gluc
0511150000494	19	0210	2	3	1770	1	OK		Cotinine-N-Gluc
0511150000495	19	0210	3	4	2250	1	OK		Cotinine-N-Gluc
0511150000496	19	0210	4	5	2310	1	OK		Cotinine-N-Gluc
0511150000497	19	0210	5	6	841	1	OK		Cotinine-N-Gluc
0511150000498	19	0216	-1	0	3900	1	OK		Cotinine-N-Gluc
0511150000499	19	0216	0	1	4270	1	OK		Cotinine-N-Gluc
0511150000500	19	0216	1	2	4190	1	OK		Cotinine-N-Gluc
0511150000501	19	0216	2	3	2820	1	OK		Cotinine-N-Gluc
0511150000502	19	0216	3	4	3530	1	OK		Cotinine-N-Gluc
0511150000503	19	0216	4	5	3130	1	OK		Cotinine-N-Gluc
0511150000504	19	0216	5	6	1810	1	OK		Cotinine-N-Gluc
0511150000505	19	0220	-1	0	3300	1	OK		Cotinine-N-Gluc
0511150000506	19	0220	0	1	4090	1	OK		Cotinine-N-Gluc
0511150000507	19	0220	1	2	2190	1	OK		Cotinine-N-Gluc
0511150000508	19	0220	2	3	1530	1	OK		Cotinine-N-Gluc
0511150000509	19	0220	3	4	1250	1	OK		Cotinine-N-Gluc
0511150000510	19	0220	4	5	908	1	OK		Cotinine-N-Gluc
0511150000511	19	0220	5	6	365	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000512	19	0228	-1	0	3300	1	OK		Cotinine-N-Gluc
05111500000513	19	0228	0	1	5260	1	OK		Cotinine-N-Gluc
051 1500000514	19	0228	1	2	4550	1	OK		Cotinine-N-Gluc
05111500000515	19	0228	2	3	3520	1	OK		Cotinine-N-Gluc
05111500000516	19	0228	3	4	5420	1	OK		Cotinine-N-Gluc
05111500000517	19	0228	4	5	4830	1	OK		Cotinine-N-Gluc
05111500000518	19	0228	5	6	2210	1	OK		Cotinine-N-Gluc
05111500000519	19	0232	-1	0	1210	1	OK		Cotinine-N-Gluc
05111500000520	19	0232	0	1	1090	1	OK		Cotinine-N-Gluc
05111500000521	19	0232	1	2	977	1	OK		Cotinine-N-Gluc
05111500000522	19	0232	2	3	799	1	OK		Cotinine-N-Gluc
05111500000523	19	0232	3	4	1320	1	OK		Cotinine-N-Gluc
05111500000524	19	0232	4	5	1020	1	OK		Cotinine-N-Gluc
05111500000525	19	0232	5	6	543	1	OK		Cotinine-N-Gluc
05111500000526	19	0234	-1	0	3470	1	OK		Cotinine-N-Gluc
05111500000527	19	0234	0	1	5260	1	OK		Cotinine-N-Gluc
05111500000528	19	0234	1	2	3900	1	OK		Cotinine-N-Gluc
05111500000529	19	0234	2	3	4340	1	OK		Cotinine-N-Gluc
05111500000530	19	0234	3	4	6420	1	OK		Cotinine-N-Gluc
05111500000531	19	0234	4	5	6090	1	OK		Cotinine-N-Gluc
05111500000532	19	0234	5	6	3120	1	OK		Cotinine-N-Gluc
05111500000533	21	0241	-1	0	3020	1	OK		Cotinine-N-Gluc
05111500000534	21	0241	0	1	3170	1	OK		Cotinine-N-Gluc
05111500000535	21	0241	1	2	3400	1	OK		Cotinine-N-Gluc
05111500000536	21	0241	2	3	3250	1	OK		Cotinine-N-Gluc
05111500000537	21	0241	3	4	4790	1	OK		Cotinine-N-Gluc
05111500000538	21	0241	4	5	4730	1	OK		Cotinine-N-Gluc
05111500000539	21	0241	5	6	3840	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000540	21	0244	-1	0	4610	1	OK		Cotinine-N-Gluc
0511150000541	21	0244	0	1	3310	1	OK		Cotinine-N-Gluc
051 150000542	21	0244	1	2	3510	1	OK		Cotinine-N-Gluc
0511150000543	21	0244	2	3	3700	1	OK		Cotinine-N-Gluc
0511150000544	21	0244	3	4	4850	1	OK		Cotinine-N-Gluc
0511150000545	21	0244	4	5	5040	1	OK		Cotinine-N-Gluc
0511150000546	21	0244	5	6	2810	1	OK		Cotinine-N-Gluc
0511150000547	21	0255	-1	0	2290	1	OK		Cotinine-N-Gluc
0511150000548	21	0255	0	1	1770	1	OK		Cotinine-N-Gluc
0511150000549	21	0255	1	2	1280	1	OK		Cotinine-N-Gluc
0511150000550	21	0255	2	3	1700	1	OK		Cotinine-N-Gluc
0511150000551	21	0255	3	4	2110	1	OK		Cotinine-N-Gluc
0511150000552	21	0255	4	5	2780	1	OK		Cotinine-N-Gluc
0511150000553	21	0255	5	6	1770	1	OK		Cotinine-N-Gluc
0511150000554	21	0256	-1	0	3080	1	OK		Cotinine-N-Gluc
0511150000555	21	0256	0	1	3450	1	OK		Cotinine-N-Gluc
0511150000556	21	0256	1	2	3450	1	OK		Cotinine-N-Gluc
0511150000557	21	0256	2	3	3690	1	OK		Cotinine-N-Gluc
0511150000558	21	0256	3	4	4500	1	OK		Cotinine-N-Gluc
0511150000559	21	0256	4	5	3910	1	OK		Cotinine-N-Gluc
0511150000560	21	0256	5	6	3470	1	OK		Cotinine-N-Gluc
0511150000561	13	0156	-1	0	5470	1	OK		Cotinine-N-Gluc
0511150000562	13	0156	0	1	5530	1	OK		Cotinine-N-Gluc
0511150000563	13	0156	1	2	6170	1	OK		Cotinine-N-Gluc
0511150000564	13	0156	2	3	6420	1	OK		Cotinine-N-Gluc
0511150000565	13	0156	3	4	6060	1	OK		Cotinine-N-Gluc
0511150000566	13	0156	4	5	7310	1	OK		Cotinine-N-Gluc
0511150000567	13	0156	5	6	4640	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000568	11	0126	-1	0	2190	1	OK		Cotinine-N-Gluc
0511150000569	11	0126	0	1	2380	1	OK		Cotinine-N-Gluc
051 150000570	11	0126	1	2	2910	1	OK		Cotinine-N-Gluc
0511150000571	11	0126	2	3	1870	1	OK		Cotinine-N-Gluc
0511150000572	11	0126	3	4	2680	1	OK		Cotinine-N-Gluc
0511150000573	11	0126	4	5	2090	1	OK		Cotinine-N-Gluc
0511150000574	11	0126	5	6	1850	1	OK		Cotinine-N-Gluc
0511150000575	11	0139	-1	0	5580	1	OK		Cotinine-N-Gluc
0511150000576	11	0139	0	1	5440	1	OK		Cotinine-N-Gluc
0511150000577	11	0139	1	2	4880	1	OK		Cotinine-N-Gluc
0511150000578	11	0139	2	3	3980	1	OK		Cotinine-N-Gluc
0511150000579	11	0139	3	4	5010	1	OK		Cotinine-N-Gluc
0511150000580	11	0139	4	5	4320	1	OK		Cotinine-N-Gluc
0511150000581	11	0139	5	6	4500	1	OK		Cotinine-N-Gluc
0511150000582	11	0140	-1	0	1540	1	OK		Cotinine-N-Gluc
0511150000583	11	0140	0	1	1790	1	OK		Cotinine-N-Gluc
0511150000584	11	0140	1	2	2190	1	OK		Cotinine-N-Gluc
0511150000585	11	0140	2	3	2480	1	OK		Cotinine-N-Gluc
0511150000586	11	0140	3	4	2510	1	OK		Cotinine-N-Gluc
0511150000587	11	0140	4	5	2270	1	OK		Cotinine-N-Gluc
0511150000588	11	0140	5	6	1540	1	OK		Cotinine-N-Gluc
0511150000589	13	0148	-1	0	12000	1	OK		Cotinine-N-Gluc
0511150000590	13	0148	0	1	10400	1	OK		Cotinine-N-Gluc
0511150000591	13	0148	1	2	9910	1	OK		Cotinine-N-Gluc
0511150000592	13	0148	2	3	6050	1	OK		Cotinine-N-Gluc
0511150000593	13	0148	3	4	7760	1	OK		Cotinine-N-Gluc
0511150000594	13	0148	4	5	5160	1	OK		Cotinine-N-Gluc
0511150000595	13	0148	5	6	5010	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000596	13	0152	-1	0	480	1	OK		Cotinine-N-Gluc
0511150000597	13	0152	0	1	482	1	OK		Cotinine-N-Gluc
051 150000598	13	0152	1	2	680	1	OK		Cotinine-N-Gluc
0511150000599	13	0152	2	3	789	1	OK		Cotinine-N-Gluc
0511150000600	13	0152	3	4	1050	1	OK		Cotinine-N-Gluc
0511150000601	13	0152	4	5	679	1	OK		Cotinine-N-Gluc
0511150000602	13	0152	5	6	678	1	OK		Cotinine-N-Gluc
0511150000603	13	0160	-1	0	4780	1	OK		Cotinine-N-Gluc
0511150000604	13	0160	0	1	4640	1	OK		Cotinine-N-Gluc
0511150000605	13	0160	1	2	3840	1	OK		Cotinine-N-Gluc
0511150000606	13	0160	2	3	1780	1	OK		Cotinine-N-Gluc
0511150000607	13	0160	3	4	9680	1	OK		Cotinine-N-Gluc
0511150000608	13	0160	4	5	4120	1	OK		Cotinine-N-Gluc
0511150000609	13	0160	5	6	2790	1	OK		Cotinine-N-Gluc
0511150000610	15	0187	-1	0	5300	1	OK		Cotinine-N-Gluc
0511150000611	15	0187	0	1	3590	1	OK		Cotinine-N-Gluc
0511150000612	15	0187	1	2	3630	1	OK		Cotinine-N-Gluc
0511150000613	15	0187	2	3	4700	1	OK		Cotinine-N-Gluc
0511150000614	15	0187	3	4	5600	1	OK		Cotinine-N-Gluc
0511150000615	15	0187	4	5	3390	1	OK		Cotinine-N-Gluc
0511150000616	15	0187	5	6	2250	1	OK		Cotinine-N-Gluc
0511150000617	15	0191	-1	0	2320	1	OK		Cotinine-N-Gluc
0511150000618	15	0191	0	1	1700	1	OK		Cotinine-N-Gluc
0511150000619	15	0191	1	2	2980	1	OK		Cotinine-N-Gluc
0511150000620	15	0191	2	3	3060	1	OK		Cotinine-N-Gluc
0511150000621	15	0191	3	4	3530	1	OK		Cotinine-N-Gluc
0511150000622	15	0191	4	5	2820	1	OK		Cotinine-N-Gluc
0511150000623	15	0191	5	6	1570	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000694	30	0198	-1	0	4270	1	OK		Cotinine-N-Gluc
0511150000695	30	0198	0	1	7250	1	OK		Cotinine-N-Gluc
051 150000696	30	0198	1	2	5490	1	OK		Cotinine-N-Gluc
0511150000697	30	0198	2	3	8680	1	OK		Cotinine-N-Gluc
0511150000698	30	0198	3	4	7680	1	OK		Cotinine-N-Gluc
0511150000699	30	0198	4	5	7470	1	OK		Cotinine-N-Gluc
0511150000700	30	0198	5	6	5580	1	OK		Cotinine-N-Gluc
0511150000701	30	0200	-1	0	2560	1	OK		Cotinine-N-Gluc
0511150000702	30	0200	0	1	4440	1	OK		Cotinine-N-Gluc
0511150000703	30	0200	1	2	4240	1	OK		Cotinine-N-Gluc
0511150000704	30	0200	2	3	3630	1	OK		Cotinine-N-Gluc
0511150000705	30	0200	3	4	4230	1	OK		Cotinine-N-Gluc
0511150000706	30	0200	4	5	4420	1	OK		Cotinine-N-Gluc
0511150000707	30	0200	5	6	2130	1	OK		Cotinine-N-Gluc
0511150000708	30	0204	-1	0	862	1	OK		Cotinine-N-Gluc
0511150000709	30	0204	0	1	1380	1	OK		Cotinine-N-Gluc
0511150000710	30	0204	1	2	1810	1	OK		Cotinine-N-Gluc
0511150000711	30	0204	2	3	1190	1	OK		Cotinine-N-Gluc
0511150000712	30	0204	3	4	1580	1	OK		Cotinine-N-Gluc
0511150000713	30	0204	4	5	1330	1	OK		Cotinine-N-Gluc
0511150000714	30	0204	5	6	1460	1	OK		Cotinine-N-Gluc
0511150000715	19	0224	-1	0	2830	1	OK		Cotinine-N-Gluc
0511150000716	19	0224	0	1	4270	1	OK		Cotinine-N-Gluc
0511150000717	19	0224	1	2	3280	1	OK		Cotinine-N-Gluc
0511150000718	19	0224	2	3	2780	1	OK		Cotinine-N-Gluc
0511150000719	19	0224	3	4	3520	1	OK		Cotinine-N-Gluc
0511150000720	19	0224	4	5	3950	1	OK		Cotinine-N-Gluc
0511150000721	19	0224	5	6	3010	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000722	19	0229	-1	0	1820	1	OK		Cotinine-N-Gluc
0511150000723	19	0229	0	1	1750	1	OK		Cotinine-N-Gluc
051 150000724	19	0229	1	2	2850	1	OK		Cotinine-N-Gluc
0511150000725	19	0229	2	3	2350	1	OK		Cotinine-N-Gluc
0511150000726	19	0229	3	4	3120	1	OK		Cotinine-N-Gluc
0511150000727	19	0229	4	5	2860	1	OK		Cotinine-N-Gluc
0511150000728	19	0229	5	6	1410	1	OK		Cotinine-N-Gluc
0511150000729	19	0230	-1	0	1620	1	OK		Cotinine-N-Gluc
0511150000730	19	0230	0	1	3930	1	OK		Cotinine-N-Gluc
0511150000731	19	0230	1	2	3020	1	OK		Cotinine-N-Gluc
0511150000732	19	0230	2	3	2160	1	OK		Cotinine-N-Gluc
0511150000733	19	0230	3	4	2570	1	OK		Cotinine-N-Gluc
0511150000734	19	0230	4	5	2680	1	OK		Cotinine-N-Gluc
0511150000735	19	0230	5	6	1720	1	OK		Cotinine-N-Gluc
0511150000736	21	0262	-1	0	1550	1	OK		Cotinine-N-Gluc
0511150000737	21	0262	0	1	2140	1	OK		Cotinine-N-Gluc
0511150000738	21	0262	1	2	2050	1	OK		Cotinine-N-Gluc
0511150000739	21	0262	2	3	2460	1	OK		Cotinine-N-Gluc
0511150000740	21	0262	3	4	3670	1	OK		Cotinine-N-Gluc
0511150000741	21	0262	4	5	3980	1	OK		Cotinine-N-Gluc
0511150000742	21	0262	5	6	1440	1	OK		Cotinine-N-Gluc
0511150000743	23	0278	-1	0	4390	1	OK		Cotinine-N-Gluc
0511150000744	23	0278	0	1	4400	1	OK		Cotinine-N-Gluc
0511150000745	23	0278	1	2	5390	1	OK		Cotinine-N-Gluc
0511150000746	23	0278	2	3	5280	1	OK		Cotinine-N-Gluc
0511150000747	23	0278	3	4	6670	1	OK		Cotinine-N-Gluc
0511150000748	23	0278	4	5	4750	1	OK		Cotinine-N-Gluc
0511150000749	23	0278	5	6	4160	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000750	23	0283	-1	0	3100	1	OK		Cotinine-N-Gluc
0511150000751	23	0283	0	1	2410	1	OK		Cotinine-N-Gluc
051 150000752	23	0283	1	2	2500	1	OK		Cotinine-N-Gluc
0511150000753	23	0283	2	3	2080	1	OK		Cotinine-N-Gluc
0511150000754	23	0283	3	4	1980	1	OK		Cotinine-N-Gluc
0511150000755	23	0283	4	5	1600	1	OK		Cotinine-N-Gluc
0511150000756	23	0283	5	6	1030	1	OK		Cotinine-N-Gluc
0511150000757	23	0285	-1	0	3840	1	OK		Cotinine-N-Gluc
0511150000758	23	0285	0	1	5850	1	OK		Cotinine-N-Gluc
0511150000759	23	0285	1	2	6370	1	OK		Cotinine-N-Gluc
0511150000760	23	0285	2	3	7160	1	OK		Cotinine-N-Gluc
0511150000761	23	0285	3	4	7420	1	OK		Cotinine-N-Gluc
0511150000762	23	0285	4	5	3900	1	OK		Cotinine-N-Gluc
0511150000763	23	0285	5	6	6810	1	OK		Cotinine-N-Gluc
0511150000764	25	0298	-1	0	2370	1	OK		Cotinine-N-Gluc
0511150000765	25	0298	0	1	3860	1	OK		Cotinine-N-Gluc
0511150000766	25	0298	1	2	6060	1	OK		Cotinine-N-Gluc
0511150000767	25	0298	2	3	3340	1	OK		Cotinine-N-Gluc
0511150000768	25	0298	3	4	3170	1	OK		Cotinine-N-Gluc
0511150000769	25	0298	4	5	2410	1	OK		Cotinine-N-Gluc
0511150000770	25	0298	5	6	3240	1	OK		Cotinine-N-Gluc
0511150000771	25	0313	-1	0	2310	1	OK		Cotinine-N-Gluc
0511150000772	25	0313	0	1	2310	1	OK		Cotinine-N-Gluc
0511150000773	25	0313	1	2	3780	1	OK		Cotinine-N-Gluc
0511150000774	25	0313	2	3	2510	1	OK		Cotinine-N-Gluc
0511150000775	25	0313	3	4	2760	1	OK		Cotinine-N-Gluc
0511150000776	25	0313	4	5	2270	1	OK		Cotinine-N-Gluc
0511150000777	25	0313	5	6	1750	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000778	25	0315	-1	0	6960	1	OK		Cotinine-N-Gluc
05111500000779	25	0315	0	1	4900	1	OK		Cotinine-N-Gluc
051 1500000780	25	0315	1	2	3150	1	OK		Cotinine-N-Gluc
05111500000781	25	0315	2	3	3950	1	OK		Cotinine-N-Gluc
05111500000782	25	0315	3	4	4410	1	OK		Cotinine-N-Gluc
05111500000783	25	0315	4	5	3580	1	OK		Cotinine-N-Gluc
05111500000784	25	0315	5	6	4640	1	OK		Cotinine-N-Gluc
05111500000785	25	0318	-1	0	2430	1	OK		Cotinine-N-Gluc
05111500000786	25	0318	0	1	2310	1	OK		Cotinine-N-Gluc
05111500000787	25	0318	1	2	3490	1	OK		Cotinine-N-Gluc
05111500000788	25	0318	2	3	3070	1	OK		Cotinine-N-Gluc
05111500000789	25	0318	3	4	3230	1	OK		Cotinine-N-Gluc
05111500000790	25	0318	4	5	2990	1	OK		Cotinine-N-Gluc
05111500000791	25	0318	5	6	3960	1	OK		Cotinine-N-Gluc
05111500000792	27	0322	-1	0	2120	1	OK		Cotinine-N-Gluc
05111500000793	27	0322	0	1	3230	1	OK		Cotinine-N-Gluc
05111500000794	27	0322	1	2	2260	1	OK		Cotinine-N-Gluc
05111500000795	27	0322	2	3	2280	1	OK		Cotinine-N-Gluc
05111500000796	27	0322	3	4	2300	1	OK		Cotinine-N-Gluc
05111500000797	27	0322	4	5	2020	1	OK		Cotinine-N-Gluc
05111500000798	27	0322	5	6	1700	1	OK		Cotinine-N-Gluc
05111500000799	27	0328	-1	0	1100	1	OK		Cotinine-N-Gluc
05111500000800	27	0328	0	1	1600	1	OK		Cotinine-N-Gluc
05111500000801	27	0328	1	2	1420	1	OK		Cotinine-N-Gluc
05111500000802	27	0328	2	3	1410	1	OK		Cotinine-N-Gluc
05111500000803	27	0328	3	4	1530	1	OK		Cotinine-N-Gluc
05111500000804	27	0328	4	5	1070	1	OK		Cotinine-N-Gluc
05111500000805	27	0328	5	6	1050	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000898		0067	0	1		2	OK	Analysis not required	Cotinine-N-Gluc
05111500001688	21	0264	-1	0	2100	1	OK		Cotinine-N-Gluc
051 1500001689	21	0264	0	1	2500	1	OK		Cotinine-N-Gluc
05111500001690	21	0264	1	2	3270	1	OK		Cotinine-N-Gluc
05111500001691	21	0264	2	3	3830	1	OK		Cotinine-N-Gluc
05111500001692	21	0264	3	4	6060	1	OK		Cotinine-N-Gluc
05111500001693	21	0264	4	5	3220	1	OK		Cotinine-N-Gluc
05111500001694	21	0264	5	6	951	1	OK		Cotinine-N-Gluc
05111500001702	21	0272	-1	0	3530	1	OK		Cotinine-N-Gluc
05111500001703	21	0272	0	1	3590	1	OK		Cotinine-N-Gluc
05111500001704	21	0272	1	2	3620	1	OK		Cotinine-N-Gluc
05111500001705	21	0272	2	3	6170	1	OK		Cotinine-N-Gluc
05111500001706	21	0272	3	4	8330	1	OK		Cotinine-N-Gluc
05111500001707	21	0272	4	5	4330	1	OK		Cotinine-N-Gluc
05111500001708	21	0272	5	6	6060	1	OK		Cotinine-N-Gluc
05111500001716	21	0276	-1	0	560	1	OK		Cotinine-N-Gluc
05111500001717	21	0276	0	1	872	1	OK		Cotinine-N-Gluc
05111500001718	21	0276	1	2	906	1	OK		Cotinine-N-Gluc
05111500001719	21	0276	2	3	1110	1	OK		Cotinine-N-Gluc
05111500001720	21	0276	3	4	1960	1	OK		Cotinine-N-Gluc
05111500001721	21	0276	4	5	2080	1	OK		Cotinine-N-Gluc
05111500001722	21	0276	5	6	2490	1	OK		Cotinine-N-Gluc
05111500001730	21	0277	-1	0	2670	1	OK		Cotinine-N-Gluc
05111500001731	21	0277	0	1	2870	1	OK		Cotinine-N-Gluc
05111500001732	21	0277	1	2	4090	1	OK		Cotinine-N-Gluc
05111500001733	21	0277	2	3	4180	1	OK		Cotinine-N-Gluc
05111500001734	21	0277	3	4	4340	1	OK		Cotinine-N-Gluc
05111500001735	21	0277	4	5	2860	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001736	21	0277	5	6	3490	1	OK		Cotinine-N-Gluc
05111500001744	23	0279	-1	0	7310	1	OK		Cotinine-N-Gluc
051 1500001745	23	0279	0	1	4270	1	OK		Cotinine-N-Gluc
05111500001746	23	0279	1	2	4480	1	OK		Cotinine-N-Gluc
05111500001747	23	0279	2	3	3400	1	OK		Cotinine-N-Gluc
05111500001748	23	0279	3	4	5320	1	OK		Cotinine-N-Gluc
05111500001749	23	0279	4	5	3160	1	OK		Cotinine-N-Gluc
05111500001750	23	0279	5	6	3340	1	OK		Cotinine-N-Gluc
05111500001758	23	0281	-1	0	7000	1	OK		Cotinine-N-Gluc
05111500001759	23	0281	0	1	6690	1	OK		Cotinine-N-Gluc
05111500001760	23	0281	1	2	7550	1	OK		Cotinine-N-Gluc
05111500001761	23	0281	2	3	6560	1	OK		Cotinine-N-Gluc
05111500001762	23	0281	3	4	12500	1	OK		Cotinine-N-Gluc
05111500001763	23	0281	4	5	8090	1	OK		Cotinine-N-Gluc
05111500001764	23	0281	5	6	12100	1	OK		Cotinine-N-Gluc
05111500001772	23	0282	-1	0	1440	1	OK		Cotinine-N-Gluc
05111500001773	23	0282	0	1	1960	1	OK		Cotinine-N-Gluc
05111500001774	23	0282	1	2	1740	1	OK		Cotinine-N-Gluc
05111500001775	23	0282	2	3	2100	1	OK		Cotinine-N-Gluc
05111500001776	23	0282	3	4	2750	1	OK		Cotinine-N-Gluc
05111500001777	23	0282	4	5	2340	1	OK		Cotinine-N-Gluc
05111500001778	23	0282	5	6	1380	1	OK		Cotinine-N-Gluc
05111500001786	23	0287	-1	0	8160	1	OK		Cotinine-N-Gluc
05111500001787	23	0287	0	1	5650	1	OK		Cotinine-N-Gluc
05111500001788	23	0287	1	2	9120	1	OK		Cotinine-N-Gluc
05111500001789	23	0287	2	3	5310	1	OK		Cotinine-N-Gluc
05111500001790	23	0287	3	4	9100	1	OK		Cotinine-N-Gluc
05111500001791	23	0287	4	5	6850	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001792	23	0287	5	6	8240	1	OK		Cotinine-N-Gluc
05111500001800	23	0291	-1	0	4590	1	OK		Cotinine-N-Gluc
051 1500001801	23	0291	0	1	3130	1	OK		Cotinine-N-Gluc
05111500001802	23	0291	1	2	2330	1	OK		Cotinine-N-Gluc
05111500001803	23	0291	2	3	3090	1	OK		Cotinine-N-Gluc
05111500001804	23	0291	3	4	4270	1	OK		Cotinine-N-Gluc
05111500001805	23	0291	4	5	4980	1	OK		Cotinine-N-Gluc
05111500001806	23	0291	5	6	4040	1	OK		Cotinine-N-Gluc
05111500001814	23	0296	-1	0	4670	1	OK		Cotinine-N-Gluc
05111500001815	23	0296	0	1	4780	1	OK		Cotinine-N-Gluc
05111500001816	23	0296	1	2	4900	1	OK		Cotinine-N-Gluc
05111500001817	23	0296	2	3	9190	1	OK		Cotinine-N-Gluc
05111500001818	23	0296	3	4	7860	1	OK		Cotinine-N-Gluc
05111500001819	23	0296	4	5	7510	1	OK		Cotinine-N-Gluc
05111500001820	23	0296	5	6	6350	1	OK		Cotinine-N-Gluc
05111500001828	25	0300	-1	0	350	1	OK		Cotinine-N-Gluc
05111500001829	25	0300	0	1	282	1	OK		Cotinine-N-Gluc
05111500001830	25	0300	1	2	266	1	OK		Cotinine-N-Gluc
05111500001831	25	0300	2	3	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500001832	25	0300	3	4	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500001833	25	0300	4	5	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500001834	25	0300	5	6	BLQ<(200)	1	OK		Cotinine-N-Gluc
05111500001842	25	0301	-1	0	4340	1	OK		Cotinine-N-Gluc
05111500001843	25	0301	0	1	5930	1	OK		Cotinine-N-Gluc
05111500001844	25	0301	1	2	4690	1	OK		Cotinine-N-Gluc
05111500001845	25	0301	2	3	4510	1	OK		Cotinine-N-Gluc
05111500001846	25	0301	3	4	8310	1	OK		Cotinine-N-Gluc
05111500001847	25	0301	4	5	4700	1	OK		Cotinine-N-Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001848	25	0301	5	6	6110	1	OK		Cotinine-N-Gluc
05111500001856	25	0307	-1	0	3490	1	OK		Cotinine-N-Gluc
051 1500001857	25	0307	0	1	3110	1	OK		Cotinine-N-Gluc
05111500001858	25	0307	1	2	3730	1	OK		Cotinine-N-Gluc
05111500001859	25	0307	2	3	4390	1	OK		Cotinine-N-Gluc
05111500001860	25	0307	3	4	6600	1	OK		Cotinine-N-Gluc
05111500001861	25	0307	4	5	4190	1	OK		Cotinine-N-Gluc
05111500001862	25	0307	5	6	4710	1	OK		Cotinine-N-Gluc
05111500001870	25	0308	-1	0	6570	1	OK		Cotinine-N-Gluc
05111500001871	25	0308	0	1	8710	1	OK		Cotinine-N-Gluc
05111500001872	25	0308	1	2	7340	1	OK		Cotinine-N-Gluc
05111500001873	25	0308	2	3	7530	1	OK		Cotinine-N-Gluc
05111500001874	25	0308	3	4	8870	1	OK		Cotinine-N-Gluc
05111500001875	25	0308	4	5	7540	1	OK		Cotinine-N-Gluc
05111500001876	25	0308	5	6	10100	1	OK		Cotinine-N-Gluc
05111500001884	25	0316	-1	0	1270	1	OK		Cotinine-N-Gluc
05111500001885	25	0316	0	1	1190	1	OK		Cotinine-N-Gluc
05111500001886	25	0316	1	2	2170	1	OK		Cotinine-N-Gluc
05111500001887	25	0316	2	3	2120	1	OK		Cotinine-N-Gluc
05111500001888	25	0316	3	4	2940	1	OK		Cotinine-N-Gluc
05111500001889	25	0316	4	5	1630	1	OK		Cotinine-N-Gluc
05111500001890	25	0316	5	6	1050	1	OK		Cotinine-N-Gluc
05111500001898	27	0320	-1	0	4900	1	OK		Cotinine-N-Gluc
05111500001899	27	0320	0	1	4510	1	OK		Cotinine-N-Gluc
05111500001900	27	0320	1	2	4450	1	OK		Cotinine-N-Gluc
05111500001901	27	0320	2	3	3390	1	OK		Cotinine-N-Gluc
05111500001902	27	0320	3	4	3660	1	OK		Cotinine-N-Gluc
05111500001903	27	0320	4	5	3660	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001904	27	0320	5	6	3950	1	OK		Cotinine-N-Gluc
05111500001912	27	0321	-1	0	3770	1	OK		Cotinine-N-Gluc
051 1500001913	27	0321	0	1	2840	1	OK		Cotinine-N-Gluc
05111500001914	27	0321	1	2	2870	1	OK		Cotinine-N-Gluc
05111500001915	27	0321	2	3	4580	1	OK		Cotinine-N-Gluc
05111500001916	27	0321	3	4	6400	1	OK		Cotinine-N-Gluc
05111500001917	27	0321	4	5	5330	1	OK		Cotinine-N-Gluc
05111500001918	27	0321	5	6	6850	1	OK		Cotinine-N-Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Table 25 Study Sample Concentrations for *trans*-3'-Hydroxycotinine-*O*-Glucuronide

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000001	3	0025	-1	0	2180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000002	3	0025	0	1	2060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000003	3	0025	1	2	2070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000004	3	0025	2	3	1390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000005	3	0025	3	4	1200	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000006	3	0025	4	5	2080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000007	3	0025	5	6	936	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000008	3	0029	-1	0	3660	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000009	3	0029	0	1	705	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000010	3	0029	1	2	2020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000011	3	0029	2	3	1850	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000012	3	0029	3	4	1140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000013	3	0029	4	5	1750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000014	3	0029	5	6	1350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000015	3	0035	-1	0	1510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000016	3	0035	0	1	1770	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000017	3	0035	1	2	1350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000018	3	0035	2	3	1060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000019	3	0035	3	4	985	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000020	3	0035	4	5	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000021	3	0035	5	6	1410	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000022	3	0037	-1	0	1980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000023	3	0037	0	1	1360	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000024	3	0037	1	2	1170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000025	3	0037	2	3	1110	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000026	3	0037	3	4	1330	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000027	3	0037	4	5	1220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000028	3	0037	5	6	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000029	5	0042	-1	0	1430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000030	5	0042	0	1	1860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000031	5	0042	1	2	1430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000032	5	0042	2	3	962	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000033	5	0042	3	4	2230	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000034	5	0042	4	5	1260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000035	5	0042	5	6	1310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000036	5	0053	-1	0	2440	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000037	5	0053	0	1	2090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000038	5	0053	1	2	2730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000039	5	0053	2	3	1650	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000040	5	0053	3	4	1910	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000041	5	0053	4	5	1500	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000042	5	0053	5	6	2040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000043	5	0055	-1	0	1090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000044	5	0055	0	1	827	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000045	5	0055	1	2	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000046	5	0055	2	3	849	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000047	5	0055	3	4	615	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000048	5	0055	4	5	1120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000049	5	0055	5	6	1140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000050	5	0064	-1	0	349	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000051	5	0064	0	1	493	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000052	5	0064	1	2	287	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000053	5	0064	2	3	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000054	5	0064	3	4	274	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000055	5	0064	4	5	260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000056	5	0064	5	6	390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000057	7	0067	-1	0	934	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000058	7	0067	0	1	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000059	7	0067	1	2	1060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000060	7	0067	2	3	721	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000061	7	0067	3	4	566	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000062	7	0067	4	5	615	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000063	7	0067	5	6	510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000064	7	0072	-1	0	3830	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000065	7	0072	0	1	2040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000066	7	0072	1	2	2010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000067	7	0072	2	3	3170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000068	7	0072	3	4	4920	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000069	7	0072	4	5	2160	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000070	7	0072	5	6	1820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000071	7	0080	-1	0	2910	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000072	7	0080	0	1	1790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000073	7	0080	1	2	1730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000074	7	0080	2	3	1530	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000075	7	0080	3	4	770	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000076	7	0080	4	5	870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000077	7	0080	5	6	665	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000078	7	0087	-1	0	3360	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000079	7	0087	0	1	2340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000080	7	0087	1	2	2790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000081	7	0087	2	3	2840	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000082	7	0087	3	4	2930	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000083	7	0087	4	5	1820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000084	7	0087	5	6	1030	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000085	9	0105	-1	0	3020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000086	9	0105	0	1	2250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000087	9	0105	1	2	3870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000088	9	0105	2	3	3190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000089	9	0105	3	4	2360	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000090	9	0105	4	5	1690	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000091	9	0105	5	6	929	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000092	9	0117	-1	0	610	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000093	9	0117	0	1	756	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000094	9	0117	1	2	964	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000095	9	0117	2	3	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000096	9	0117	3	4	906	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000097	9	0117	4	5	780	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000098	9	0117	5	6	308	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000099	9	0118	-1	0	3730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000100	9	0118	0	1	2740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000101	9	0118	1	2	2450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000102	9	0118	2	3	2390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000103	9	0118	3	4	2960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000104	9	0118	4	5	2420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000105	9	0118	5	6	2170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000106	11	0121	-1	0	625	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000107	11	0121	0	1	682	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000108	11	0121	1	2	420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000109	11	0121	2	3	325	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000110	11	0121	3	4	409	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000111	11	0121	4	5	294	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000112	11	0121	5	6	231	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000113	1	0001	-1	0	573	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000114	1	0001	0	1	929	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000115	1	0001	1	2	722	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000116	1	0001	2	3	1200	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000117	1	0001	3	4	1300	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000118	1	0001	4	5	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000119	1	0001	5	6	1220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000120	1	0004	-1	0	1980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000121	1	0004	0	1	1280	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000122	1	0004	1	2	1350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000123	1	0004	2	3	1540	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000124	1	0004	3	4	1990	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000125	1	0004	4	5	2170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000126	1	0004	5	6	938	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000127	1	0008	-1	0	3310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000128	1	0008	0	1	2710	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000129	1	0008	1	2	2070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000130	1	0008	2	3	1300	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000131	1	0008	3	4	1740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000132	1	0008	4	5	2990	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000133	1	0008	5	6	1690	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000134	1	0011	-1	0	1030	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000135	1	0011	0	1	1350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000136	1	0011	1	2	1120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000137	1	0011	2	3	625	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000138	1	0011	3	4	955	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000139	1	0011	4	5	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000140	1	0011	5	6	1040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000141	1	0014	-1	0	3350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000142	1	0014	0	1	2590	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000143	1	0014	1	2	1390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000144	1	0014	2	3	1170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000145	1	0014	3	4	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000146	1	0014	4	5	1840	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000147	1	0014	5	6	1580	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000148	1	0016	-1	0	2290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000149	1	0016	0	1	561	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000150	1	0016	1	2	1190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000151	1	0016	2	3	1090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000152	1	0016	3	4	1890	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000153	1	0016	4	5	3590	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000154	1	0016	5	6	2400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000155	1	0020	-1	0	2790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000156	1	0020	0	1	2630	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000157	1	0020	1	2	2550	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000158	1	0020	2	3	3060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000159	1	0020	3	4	2790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000160	1	0020	4	5	4010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000161	1	0020	5	6	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000162	1	0021	-1	0	1150	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000163	1	0021	0	1	1190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000164	1	0021	1	2	1400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000165	1	0021	2	3	1660	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000166	1	0021	3	4	684	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000167	1	0021	4	5	546	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000168	1	0021	5	6	674	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000169	1	0022	-1	0	7020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000170	1	0022	0	1	6710	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000171	1	0022	1	2	3270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000172	1	0022	2	3	1860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000173	1	0022	3	4	3490	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000174	1	0022	4	5	5350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000175	1	0022	5	6	3960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000176	3	0023	-1	0	2260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000177	3	0023	0	1	1220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000178	3	0023	1	2	905	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000179	3	0023	2	3	550	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000180	3	0023	3	4	693	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000181	3	0023	4	5	1370	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000182	3	0023	5	6	1450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000183	3	0030	-1	0	603	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000184	3	0030	0	1	285	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000185	3	0030	1	2	283	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000186	3	0030	2	3	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000187	3	0030	3	4	216	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000188	3	0030	4	5	430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000189	3	0030	5	6	240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000190	3	0031	-1	0	3730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000191	3	0031	0	1	4070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000192	3	0031	1	2	2260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000193	3	0031	2	3	1200	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000194	3	0031	3	4	1350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000195	3	0031	4	5	1750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000196	3	0031	5	6	1600	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000197	3	0034	-1	0	834	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000198	3	0034	0	1	646	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000199	3	0034	1	2	923	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000200	3	0034	2	3	917	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000201	3	0034	3	4	1390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000202	3	0034	4	5	2060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000203	3	0034	5	6	599	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000204	3	0038	-1	0	4760	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000205	3	0038	0	1	3490	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000206	3	0038	1	2	3430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000207	3	0038	2	3	1760	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000208	3	0038	3	4	2500	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000209	3	0038	4	5	3520	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000210	3	0038	5	6	2770	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000211	5	0039	-1	0	1900	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000212	5	0039	0	1	2120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000213	5	0039	1	2	3750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000214	5	0039	2	3	1120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000215	5	0039	3	4	1850	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000216	5	0039	4	5	2820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000217	5	0039	5	6	1760	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000218	5	0044	-1	0	534	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000219	5	0044	0	1	501	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000220	5	0044	1	2	558	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000221	5	0044	2	3	437	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000222	5	0044	3	4	279	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000223	5	0044	4	5	336	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000224	5	0044	5	6	268	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000225	5	0057	-1	0	709	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000226	5	0057	0	1	508	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000227	5	0057	1	2	551	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000228	5	0057	2	3	302	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000229	5	0057	3	4	535	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000230	5	0057	4	5	561	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000231	5	0057	5	6	413	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000232	5	0060	-1	0	1820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000233	5	0060	0	1	968	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000234	5	0060	1	2	847	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000235	5	0060	2	3	689	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000236	5	0060	3	4	866	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000237	5	0060	4	5	1200	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000238	5	0060	5	6	1150	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000239	5	0066	-1	0	662	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000240	5	0066	0	1	987	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000241	5	0066	1	2	616	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000242	5	0066	2	3	882	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000243	5	0066	3	4	1020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000244	5	0066	4	5	738	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000245	5	0066	5	6	491	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000246	7	0069	-1	0	539	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000247	7	0069	0	1	534	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000248	7	0069	1	2	958	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000249	7	0069	2	3	647	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000250	7	0069	3	4	740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000251	7	0069	4	5	741	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000252	7	0069	5	6	570	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000253	7	0074	-1	0	4060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000254	7	0074	0	1	2310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000255	7	0074	1	2	2290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000256	7	0074	2	3	1920	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000257	7	0074	3	4	2140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000258	7	0074	4	5	1630	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000259	7	0074	5	6	1330	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000260	7	0083	-1	0	2860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000261	7	0083	0	1	2310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000262	7	0083	1	2	2090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000263	7	0083	2	3	1830	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000264	7	0083	3	4	2240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000265	7	0083	4	5	2740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000266	7	0083	5	6	1640	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000267	7	0085	-1	0	371	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000268	7	0085	0	1	437	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000269	7	0085	1	2	437	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000270	7	0085	2	3	349	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000274	7	0088	-1	0	982	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000275	7	0088	0	1	740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000276	7	0088	1	2	1080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000277	7	0088	2	3	514	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000278	7	0088	3	4	430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000279	7	0088	4	5	350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000280	7	0088	5	6	427	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000281	9	0090	-1	0	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000282	9	0090	0	1	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000283	9	0090		2	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000284	9	0090	2	3	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000285	9	0090	3	4	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000286	9	0090	4	5	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000287	9	0090	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000288	9	0093	-1	0	1510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000289	9	0093	0	1	1310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000290	9	0093	1	2	1490	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000291	9	0093	2	3	1400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000292	9	0093	3	4	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000293	9	0093	4	5	1400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000294	9	0093	5	6	818	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000295	9	0106	-1	0	592	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000296	9	0106	0	1	444	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000297	9	0106	1	2	325	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000298	9	0106	2	3	290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000299	9	0106	3	4	241	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000300	9	0106	4	5	239	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000301	9	0106	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000302	9	0107	-1	0	1930	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000303	9	0107	0	1	896	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000304	9	0107	1	2	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000305	9	0107	2	3	700	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000306	9	0107	3	4	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000307	9	0107	4	5	765	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000308	9	0107	5	6	504	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000309	9	0110	-1	0	1370	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000310	9	0110	0	1	1330	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 150000311	9	0110		2	1510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000312	9	0110	2	3	1290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000313	9	0110	3	4	1150	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000314	9	0110	4	5	1060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000315	9	0110	5	6	844	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000316	9	0112	-1	0	1620	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000317	9	0112	0	1	1090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000318	9	0112	1	2	892	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000319	9	0112	2	3	737	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000320	9	0112	3	4	1090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000321	9	0112	4	5	871	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000322	9	0112	5	6	1010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000323	11	0122	-1	0	1310	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000324	11	0122	0	1	615	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000325	11	0122	1	2	571	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000326	11	0122	2	3	720	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000327	11	0122	3	4	864	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000328	11	0122	4	5	921	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000329	11	0122	5	6	528	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000337	11	0129	-1	0	1870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000338	11	0129	0	1	2160	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000339	11	0129	1	2	1560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000340	11	0129	2	3	1110	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000341	11	0129	3	4	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000342	11	0129	4	5	2320	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000343	11	0129	5	6	1140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000344	11	0130	-1	0	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000345	11	0130	0	1	828	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000346	11	0130		2	605	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000347	11	0130	2	3	500	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000348	11	0130	3	4	1110	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000349	11	0130	4	5	1450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000350	11	0130	5	6	620	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000351	11	0134	-1	0	2730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000352	11	0134	0	1	2010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000353	11	0134	1	2	2130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000354	11	0134	2	3	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000355	11	0134	3	4	3270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000356	11	0134	4	5	3280	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000357	11	0134	5	6	3080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000358	11	0136	-1	0	3900	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000359	11	0136	0	1	2600	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000360	11	0136	1	2	3690	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000361	11	0136	2	3	2020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000362	11	0136	3	4	2550	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000363	11	0136	4	5	1720	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000364	11	0136	5	6	1370	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000365	13	0147	-1	0	1900	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000366	13	0147	0	1	1180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000367	13	0147	1	2	1090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000368	13	0147	2	3	539	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000369	13	0147	3	4	568	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000370	13	0147	4	5	993	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000371	13	0147	5	6	648	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000372	13	0149	-1	0	2730	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000373	13	0149	0	1	1540	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000374	13	0149		2	1790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000375	13	0149	2	3	2260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000376	13	0149	3	4	2750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000377	13	0149	4	5	2030	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000378	13	0149	5	6	1840	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000379	13	0153	-1	0	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000380	13	0153	0	1	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000381	13	0153	1	2	1360	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000382	13	0153	2	3	1260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000383	13	0153	3	4	2260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000384	13	0153	4	5	1870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000385	13	0153	5	6	725	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000386	13	0155	-1	0	1020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000387	13	0155	0	1	579	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000388	13	0155	1	2	608	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000389	13	0155	2	3	526	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000390	13	0155	3	4	516	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000391	13	0155	4	5	601	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000392	13	0155	5	6	369	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000393	13	0162	-1	0	2180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000394	13	0162	0	1	2220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000395	13	0162	1	2	2020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000396	13	0162	2	3	2370	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000397	13	0162	3	4	3830	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000398	13	0162	4	5	2970	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000399	13	0162	5	6	3190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000400	15	0167	-1	0	2560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000401	15	0167	0	1	2000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000402	15	0167		2	1930	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000403	15	0167	2	3	1740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000404	15	0167	3	4	2270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000405	15	0167	4	5	2130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000406	15	0167	5	6	1920	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000407	15	0170	-1	0	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000408	15	0170	0	1	738	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000409	15	0170	1	2	541	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000410	15	0170	2	3	560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000411	15	0170	3	4	544	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000412	15	0170	4	5	745	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000413	15	0170	5	6	501	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000414	15	0177	-1	0	3920	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000415	15	0177	0	1	3350	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000416	15	0177	1	2	2340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000417	15	0177	2	3	2120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000418	15	0177	3	4	2870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000419	15	0177	4	5	2560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000420	15	0177	5	6	3000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000421	15	0181	-1	0	7880	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000422	15	0181	0	1	3760	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000423	15	0181	1	2	2980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000424	15	0181	2	3	1590	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000425	15	0181	3	4	3050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000426	15	0181	4	5	3210	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000427	15	0181	5	6	2490	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000428	15	0183	-1	0	1820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000429	15	0183	0	1	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000430	15	0183		2	852	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000431	15	0183	2	3	664	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000432	15	0183	3	4	535	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000433	15	0183	4	5	539	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000434	15	0183	5	6	652	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000435	15	0189	-1	0	1260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000436	15	0189	0	1	1000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000437	15	0189	1	2	815	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000438	15	0189	2	3	739	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000439	15	0189	3	4	867	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000440	15	0189	4	5	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000441	15	0189	5	6	1180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000442	15	0190	-1	0	1910	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000443	15	0190	0	1	1430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000444	15	0190	1	2	2000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000445	15	0190	2	3	1290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000446	15	0190	3	4	1740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000447	15	0190	4	5	1890	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000448	15	0190	5	6	1700	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000449	30	0192	-1	0	5180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000450	30	0192	0	1	3240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000451	30	0192	1	2	1960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000452	30	0192	2	3	3050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000453	30	0192	3	4	4390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000454	30	0192	4	5	3380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000455	30	0192	5	6	3050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000456	30	0193	-1	0	735	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000457	30	0193	0	1	1280	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000458	30	0193		2	748	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000459	30	0193	2	3	598	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000460	30	0193	3	4	808	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000461	30	0193	4	5	799	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000462	30	0193	5	6	609	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000463	30	0195	-1	0	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000464	30	0195	0	1	1400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000465	30	0195	1	2	830	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000466	30	0195	2	3	416	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000467	30	0195	3	4	482	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000468	30	0195	4	5	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000469	30	0195	5	6	317	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000470	30	0196	-1	0	522	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000471	30	0196	0	1	451	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000472	30	0196	1	2	418	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000473	30	0196	2	3	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000474	30	0196	3	4	241	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000475	30	0196	4	5	530	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000476	30	0196	5	6	241	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000477	30	0202	-1	0	1460	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000478	30	0202	0	1	1600	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000479	30	0202	1	2	1560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000480	30	0202	2	3	1440	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000481	30	0202	3	4	2260	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000482	30	0202	4	5	2690	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000483	30	0202	5	6	979	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000484	30	0206	-1	0	1020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000485	30	0206	0	1	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000486	30	0206		2	846	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000487	30	0206	2	3	765	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000488	30	0206	3	4	681	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000489	30	0206	4	5	817	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000490	30	0206	5	6	691	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000491	19	0210	-1	0	1760	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000492	19	0210	0	1	1320	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000493	19	0210	1	2	1130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000494	19	0210	2	3	960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000495	19	0210	3	4	750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000496	19	0210	4	5	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000497	19	0210	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000498	19	0216	-1	0	2000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000499	19	0216	0	1	1680	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000500	19	0216	1	2	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000501	19	0216	2	3	1040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000502	19	0216	3	4	1440	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000503	19	0216	4	5	1450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000504	19	0216	5	6	860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000505	19	0220	-1	0	1530	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000506	19	0220	0	1	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000507	19	0220	1	2	612	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000508	19	0220	2	3	427	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000509	19	0220	3	4	412	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000510	19	0220	4	5	332	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000511	19	0220	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000512	19	0228	-1	0	639	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000513	19	0228	0	1	1050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000514	19	0228		2	756	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000515	19	0228	2	3	532	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000516	19	0228	3	4	986	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000517	19	0228	4	5	1050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000518	19	0228	5	6	471	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000519	19	0232	-1	0	1160	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000520	19	0232	0	1	596	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000521	19	0232	1	2	492	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000522	19	0232	2	3	513	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000523	19	0232	3	4	899	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000524	19	0232	4	5	857	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000525	19	0232	5	6	409	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000526	19	0234	-1	0	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000527	19	0234	0	1	1740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000528	19	0234	1	2	1050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000529	19	0234	2	3	915	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000530	19	0234	3	4	1450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000531	19	0234	4	5	1900	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000532	19	0234	5	6	877	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000533	21	0241	-1	0	1190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000534	21	0241	0	1	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000535	21	0241	1	2	1340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000536	21	0241	2	3	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000537	21	0241	3	4	1710	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000538	21	0241	4	5	2130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000539	21	0241	5	6	1570	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000540	21	0244	-1	0	2400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000541	21	0244	0	1	1520	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 150000542	21	0244		2	1520	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000543	21	0244	2	3	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000544	21	0244	3	4	1460	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000545	21	0244	4	5	1860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000546	21	0244	5	6	1140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000547	21	0255	-1	0	3390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000548	21	0255	0	1	1970	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000549	21	0255	1	2	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000550	21	0255	2	3	1340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000551	21	0255	3	4	1610	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000552	21	0255	4	5	3040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000553	21	0255	5	6	1680	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000554	21	0256	-1	0	2910	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000555	21	0256	0	1	3130	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000556	21	0256	1	2	2700	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000557	21	0256	2	3	2840	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000558	21	0256	3	4	3000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000559	21	0256	4	5	3040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000560	21	0256	5	6	2470	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000561	13	0156	-1	0	5970	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000562	13	0156	0	1	4790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000563	13	0156	1	2	4140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000564	13	0156	2	3	4290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000565	13	0156	3	4	3790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000566	13	0156	4	5	6430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000567	13	0156	5	6	3220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000568	11	0126	-1	0	702	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000569	11	0126	0	1	854	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051150000570	11	0126		2	894	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000571	11	0126	2	3	663	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000572	11	0126	3	4	964	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000573	11	0126	4	5	788	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000574	11	0126	5	6	621	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000575	11	0139	-1	0	1160	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000576	11	0139	0	1	887	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000577	11	0139	1	2	536	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000578	11	0139	2	3	408	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000579	11	0139	3	4	599	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000580	11	0139	4	5	592	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000581	11	0139	5	6	574	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000582	11	0140	-1	0	946	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000583	11	0140	0	1	821	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000584	11	0140	1	2	842	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000585	11	0140	2	3	872	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000586	11	0140	3	4	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000587	11	0140	4	5	1210	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000588	11	0140	5	6	644	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000589	13	0148	-1	0	4550	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000590	13	0148	0	1	2290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000591	13	0148	1	2	2180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000592	13	0148	2	3	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000593	13	0148	3	4	1680	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000594	13	0148	4	5	1640	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000595	13	0148	5	6	1280	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
0511150000596	13	0152	-1	0	612	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000597	13	0152	0	1	432	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 150000598	13	0152		2	705	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000599	13	0152	2	3	571	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000600	13	0152	3	4	970	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000601	13	0152	4	5	687	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000602	13	0152	5	6	513	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000603	13	0160	-1	0	3410	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000604	13	0160	0	1	2270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000605	13	0160	1	2	1600	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000606	13	0160	2	3	664	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000607	13	0160	3	4	4860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000608	13	0160	4	5	2220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000609	13	0160	5	6	1560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000610	15	0187	-1	0	1110	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000611	15	0187	0	1	684	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000612	15	0187	1	2	524	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000613	15	0187	2	3	695	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000614	15	0187	3	4	1010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000615	15	0187	4	5	698	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000616	15	0187	5	6	459	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000617	15	0191	-1	0	1510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000618	15	0191	0	1	763	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000619	15	0191	1	2	1080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000620	15	0191	2	3	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000621	15	0191	3	4	1440	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000622	15	0191	4	5	1210	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
0511150000623	15	0191	5	6	713	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000694	30	0198	-1	0	3570	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000695	30	0198	0	1	4090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000696	30	0198		2	3080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000697	30	0198	2	3	4620	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000698	30	0198	3	4	4490	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000699	30	0198	4	5	5220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000700	30	0198	5	6	3520	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000701	30	0200	-1	0	849	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000702	30	0200	0	1	991	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000703	30	0200	1	2	835	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000704	30	0200	2	3	603	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000705	30	0200	3	4	808	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000706	30	0200	4	5	1080	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000707	30	0200	5	6	397	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000708	30	0204	-1	0	257	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000709	30	0204	0	1	279	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000710	30	0204	1	2	465	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000711	30	0204	2	3	286	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000712	30	0204	3	4	308	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000713	30	0204	4	5	340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000714	30	0204	5	6	311	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000715	19	0224	-1	0	767	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000716	19	0224	0	1	996	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000717	19	0224	1	2	662	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000718	19	0224	2	3	522	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000719	19	0224	3	4	664	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000720	19	0224	4	5	1070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000721	19	0224	5	6	598	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000722	19	0229	-1	0	1040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000723	19	0229	0	1	706	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000724	19	0229		2	1290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000725	19	0229	2	3	915	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000726	19	0229	3	4	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000727	19	0229	4	5	1560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000728	19	0229	5	6	622	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000729	19	0230	-1	0	342	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000730	19	0230	0	1	715	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000731	19	0230	1	2	515	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000732	19	0230	2	3	349	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000733	19	0230	3	4	383	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000734	19	0230	4	5	521	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000735	19	0230	5	6	268	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000736	21	0262	-1	0	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000737	21	0262	0	1	1410	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000738	21	0262	1	2	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000739	21	0262	2	3	1380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000740	21	0262	3	4	1840	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000741	21	0262	4	5	2200	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000742	21	0262	5	6	886	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000743	23	0278	-1	0	2030	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000744	23	0278	0	1	1710	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000745	23	0278	1	2	1980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000746	23	0278	2	3	1870	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000747	23	0278	3	4	2430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000748	23	0278	4	5	1720	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000749	23	0278	5	6	1110	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000750	23	0283	-1	0	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000751	23	0283	0	1	703	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000752	23	0283		2	694	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000753	23	0283	2	3	540	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000754	23	0283	3	4	593	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000755	23	0283	4	5	499	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000756	23	0283	5	6	269	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000757	23	0285	-1	0	2430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000758	23	0285	0	1	2980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000759	23	0285	1	2	2460	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000760	23	0285	2	3	2610	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000761	23	0285	3	4	2450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000762	23	0285	4	5	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000763	23	0285	5	6	2360	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000764	25	0298	-1	0	2400	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000765	25	0298	0	1	2650	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000766	25	0298	1	2	3630	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000767	25	0298	2	3	2060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000768	25	0298	3	4	2500	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000769	25	0298	4	5	1770	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000770	25	0298	5	6	1750	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000771	25	0313	-1	0	664	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000772	25	0313	0	1	494	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000773	25	0313	1	2	793	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000774	25	0313	2	3	514	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000775	25	0313	3	4	775	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000776	25	0313	4	5	661	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000777	25	0313	5	6	383	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000778	25	0315	-1	0	1740	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000779	25	0315	0	1	913	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500000780	25	0315		2	389	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000781	25	0315	2	3	484	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000782	25	0315	3	4	634	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000783	25	0315	4	5	604	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000784	25	0315	5	6	961	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000785	25	0318	-1	0	3790	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000786	25	0318	0	1	2700	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000787	25	0318	1	2	4010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000788	25	0318	2	3	3910	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000789	25	0318	3	4	4240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000790	25	0318	4	5	4190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000791	25	0318	5	6	3970	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000792	27	0322	-1	0	652	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000793	27	0322	0	1	847	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000794	27	0322	1	2	598	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000795	27	0322	2	3	554	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000796	27	0322	3	4	498	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000797	27	0322	4	5	590	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000798	27	0322	5	6	387	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000799	27	0328	-1	0	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000800	27	0328	0	1	230	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000801	27	0328	1	2	300	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000802	27	0328	2	3	334	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000803	27	0328	3	4	434	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000804	27	0328	4	5	392	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500000805	27	0328	5	6	347	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500000898		0067	0	1		2	OK	Analysis not required	<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001688	21	0264	-1	0	368	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500001689	21	0264	0	1	323	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001690	21	0264	1	2	473	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001691	21	0264	2	3	471	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001692	21	0264	3	4	820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001693	21	0264	4	5	510	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001694	21	0264	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001702	21	0272	-1	0	4600	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001703	21	0272	0	1	4070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001704	21	0272	1	2	3120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001705	21	0272	2	3	5160	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001706	21	0272	3	4	6380	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001707	21	0272	4	5	3850	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001708	21	0272	5	6	4020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001716	21	0276	-1	0	449	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001717	21	0276	0	1	585	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001718	21	0276	1	2	538	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001719	21	0276	2	3	551	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001720	21	0276	3	4	1060	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001721	21	0276	4	5	1190	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001722	21	0276	5	6	1120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001730	21	0277	-1	0	2000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001731	21	0277	0	1	1560	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001732	21	0277	1	2	1890	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001733	21	0277	2	3	2070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001734	21	0277	3	4	2250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001735	21	0277	4	5	2010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001736	21	0277	5	6	2070	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001744	23	0279	-1	0	2680	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500001745	23	0279	0	1	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001746	23	0279	1	2	1340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001747	23	0279	2	3	999	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001748	23	0279	3	4	1860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001749	23	0279	4	5	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001750	23	0279	5	6	1180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001758	23	0281	-1	0	1430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001759	23	0281	0	1	1140	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001760	23	0281	1	2	1020	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001761	23	0281	2	3	961	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001762	23	0281	3	4	2090	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001763	23	0281	4	5	1590	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001764	23	0281	5	6	1980	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001772	23	0282	-1	0	1270	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001773	23	0282	0	1	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001774	23	0282	1	2	1170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001775	23	0282	2	3	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001776	23	0282	3	4	1480	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001777	23	0282	4	5	1530	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001778	23	0282	5	6	864	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001786	23	0287	-1	0	3940	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001787	23	0287	0	1	2170	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001788	23	0287	1	2	3340	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001789	23	0287	2	3	1430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001790	23	0287	3	4	2830	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001791	23	0287	4	5	2670	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001792	23	0287	5	6	2320	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001800	23	0291	-1	0	4810	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500001801	23	0291	0	1	2640	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001802	23	0291	1	2	1670	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001803	23	0291	2	3	2180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001804	23	0291	3	4	3370	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001805	23	0291	4	5	4430	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001806	23	0291	5	6	2010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001814	23	0296	-1	0	1120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001815	23	0296	0	1	1240	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001816	23	0296	1	2	1150	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001817	23	0296	2	3	1960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001818	23	0296	3	4	1800	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001819	23	0296	4	5	1860	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001820	23	0296	5	6	1630	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001828	25	0300	-1	0	357	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001829	25	0300	0	1	221	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001830	25	0300	1	2	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001831	25	0300	2	3	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001832	25	0300	3	4	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001833	25	0300	4	5	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001834	25	0300	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001842	25	0301	-1	0	1420	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001843	25	0301	0	1	1440	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001844	25	0301	1	2	935	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001845	25	0301	2	3	917	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001846	25	0301	3	4	1660	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001847	25	0301	4	5	1100	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001848	25	0301	5	6	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001856	25	0307	-1	0	1410	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500001857	25	0307	0	1	1030	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001858	25	0307	1	2	1000	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001859	25	0307	2	3	1180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001860	25	0307	3	4	1630	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001861	25	0307	4	5	1320	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001862	25	0307	5	6	1050	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001870	25	0308	-1	0	1250	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001871	25	0308	0	1	1460	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001872	25	0308	1	2	1010	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001873	25	0308	2	3	1180	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001874	25	0308	3	4	1450	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001875	25	0308	4	5	1620	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001876	25	0308	5	6	1960	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001884	25	0316	-1	0	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001885	25	0316	0	1	202	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001886	25	0316	1	2	244	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001887	25	0316	2	3	301	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001888	25	0316	3	4	526	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001889	25	0316	4	5	322	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001890	25	0316	5	6	BLQ<(200)	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001898	27	0320	-1	0	3800	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001899	27	0320	0	1	3220	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001900	27	0320	1	2	2230	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001901	27	0320	2	3	2120	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001902	27	0320	3	4	2290	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001903	27	0320	4	5	2820	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Custom ID	Run ID	Subject	Start Day Nominal	Day Nominal	Concentration (ng/mL)	Split	Sample Condition	Sample Comments	Analyte
05111500001904	27	0320	5	6	2520	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001912	27	0321	-1	0	759	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
051 1500001913	27	0321	0	1	467	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001914	27	0321	1	2	390	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001915	27	0321	2	3	524	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001916	27	0321	3	4	894	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001917	27	0321	4	5	1040	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc
05111500001918	27	0321	5	6	903	1	OK		<i>trans</i> -3'-Hydroxycotinine- <i>O</i> -Gluc



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Table 26 Summary of Reassay for Analytical Reasons for *trans*-3'-Hydroxycotinine

Run Id	Reason	Sample Name
2	AAR	AA99071-06 05111500000127 0008 THS P1 Day 0 URN-1
2	AAR	AA99071-06 05111500000128 0008 THS P1 Day 1 URN-1
2	AAR	AA99071-06 05111500000132 0008 THS P1 Day 5 URN-1
2	AAR	AA99071-06 05111500000141 0014 THS P1 Day 0 URN-1
2	AAR	AA99071-06 05111500000153 0016 THS P1 Day 5 URN-1
2	AAR	AA99071-06 05111500000154 0016 THS P1 Day 6 URN-1
2	AAR	AA99071-06 05111500000160 0020 THS P1 Day 5 URN-1
2	AAR	AA99071-06 05111500000169 0022 THS P1 Day 0 URN-1
2	AAR	AA99071-06 05111500000170 0022 THS P1 Day 1 URN-1
2	AAR	AA99071-06 05111500000171 0022 THS P1 Day 2 URN-1
2	AAR	AA99071-06 05111500000173 0022 THS P1 Day 4 URN-1
2	AAR	AA99071-06 05111500000174 0022 THS P1 Day 5 URN-1
2	AAR	AA99071-06 05111500000175 0022 THS P1 Day 6 URN-1
4	AAR	AA99071-06 05111500000008 0029 CC P1 Day 0 URN-1
4	AAR	AA99071-06 05111500000190 0031 THS P1 Day 0 URN-1
4	AAR	AA99071-06 05111500000191 0031 THS P1 Day 1 URN-1
4	AAR	AA99071-06 05111500000202 0034 THS P1 Day 5 URN-1
4	AAR	AA99071-06 05111500000204 0038 THS P1 Day 0 URN-1
4	AAR	AA99071-06 05111500000205 0038 THS P1 Day 1 URN-1
4	AAR	AA99071-06 05111500000206 0038 THS P1 Day 2 URN-1
4	AAR	AA99071-06 05111500000209 0038 THS P1 Day 5 URN-1
6	AAR	AA99071-06 05111500000036 0053 CC P1 Day 0 URN-1
6	AAR	AA99071-06 05111500000038 0053 CC P1 Day 2 URN-1
8	AAR	AA99071-06 05111500000064 0072 CC P1 Day 0 URN-1
8	AAR	AA99071-06 05111500000068 0072 CC P1 Day 4 URN-1
8	AAR	AA99071-06 05111500000265 0083 THS P1 Day 5 URN-1
8	AAR	AA99071-06 05111500000078 0087 CC P1 Day 0 URN-1
8	AAR	AA99071-06 05111500000079 0087 CC P1 Day 1 URN-1
8	AAR	AA99071-06 05111500000080 0087 CC P1 Day 2 URN-1
8	AAR	AA99071-06 05111500000081 0087 CC P1 Day 3 URN-1
8	AAR	AA99071-06 05111500000082 0087 CC P1 Day 4 URN-1
10	AAR	AA99071-06 05111500000085 0105 CC P1 Day 0 URN-1
10	AAR	AA99071-06 05111500000086 0105 CC P1 Day 1 URN-1
10	AAR	AA99071-06 05111500000087 0105 CC P1 Day 2 URN-1
10	AAR	AA99071-06 05111500000088 0105 CC P1 Day 3 URN-1
10	AAR	AA99071-06 05111500000089 0105 CC P1 Day 4 URN-1
10	AAR	AA99071-06 05111500000309 0110 THS P1 Day 0 URN-1
10	AAR	AA99071-06 05111500000311 0110 THS P1 Day 2 URN-1
10	AAR	AA99071-06 05111500000312 0110 THS P1 Day 3 URN-1



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Run Id	Reason	Sample Name
10	AAR	AA99071-06 05111500000313 0110 THS P1 Day 4 URN-1
12	AAR	AA99071-06 05111500000356 0134 THS P1 Day 5 URN-1
12	AAR	AA99071-06 05111500000358 0136 THS P1 Day 0 URN-1
12	AAR	AA99071-06 05111500000359 0136 THS P1 Day 1 URN-1
12	AAR	AA99071-06 05111500000360 0136 THS P1 Day 2 URN-1
12	AAR	AA99071-06 05111500000362 0136 THS P1 Day 4 URN-1
14	AAR	AA99071-06 05111500000589 0148 CC P1 Day 0 URN-1
14	AAR	AA99071-06 05111500000590 0148 CC P1 Day 1 URN-1
14	AAR	AA99071-06 05111500000591 0148 CC P1 Day 2 URN-1
14	AAR	AA99071-06 05111500000383 0153 THS P1 Day 4 URN-1
14	AAR	AA99071-06 05111500000561 0156 CC P1 Day 0 URN-1
14	AAR	AA99071-06 05111500000562 0156 CC P1 Day 1 URN-1
14	AAR	AA99071-06 05111500000566 0156 CC P1 Day 5 URN-1
14	AAR	AA99071-06 05111500000607 0160 CC P1 Day 4 URN-1
14	AAR	AA99071-06 05111500000397 0162 THS P1 Day 4 URN-1
16	AAR	AA99071-06 05111500000414 0177 THS P1 Day 0 URN-1
16	AAR	AA99071-06 05111500000415 0177 THS P1 Day 1 URN-1
16	AAR	AA99071-06 05111500000421 0181 THS P1 Day 0 URN-1
16	AAR	AA99071-06 05111500000422 0181 THS P1 Day 1 URN-1
16	AAR	AA99071-06 05111500000423 0181 THS P1 Day 2 URN-1
16	AAR	AA99071-06 05111500000425 0181 THS P1 Day 4 URN-1
16	AAR	AA99071-06 05111500000426 0181 THS P1 Day 5 URN-1
18	AAR	AA99071-06 05111500000449 0192 THS P1 Day 0 URN-1
18	AAR	AA99071-06 05111500000450 0192 THS P1 Day 1 URN-1
18	AAR	AA99071-06 05111500000452 0192 THS P1 Day 3 URN-1
18	AAR	AA99071-06 05111500000453 0192 THS P1 Day 4 URN-1
18	AAR	AA99071-06 05111500000454 0192 THS P1 Day 5 URN-1
18	AAR	AA99071-06 05111500000455 0192 THS P1 Day 6 URN-1
18	AAR	AA99071-06 05111500000695 0198 CC P1 Day 1 URN-1
18	AAR	AA99071-06 05111500000697 0198 CC P1 Day 3 URN-1
18	AAR	AA99071-06 05111500000699 0198 CC P1 Day 5 URN-1
18	AAR	AA99071-06 05111500000478 0202 THS P1 Day 1 URN-1
18	AAR	AA99071-06 05111500000479 0202 THS P1 Day 2 URN-1
18	AAR	AA99071-06 05111500000481 0202 THS P1 Day 4 URN-1
18	AAR	AA99071-06 05111500000482 0202 THS P1 Day 5 URN-1
20	AAR	AA99071-06 05111500000498 0216 THS P1 Day 0 URN-1
22	AAR	AA99071-06 05111500000552 0255 THS P1 Day 5 URN-1
22	AAR	AA99071-06 05111500000554 0256 THS P1 Day 0 URN-1
22	AAR	AA99071-06 05111500000555 0256 THS P1 Day 1 URN-1
22	AAR	AA99071-06 05111500000559 0256 THS P1 Day 5 URN-1
22	AAR	AA99071-06 05111500001702 0272 THS P1 Day 0 URN-1
22	AAR	AA99071-06 05111500001703 0272 THS P1 Day 1 URN-1





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Run Id	Reason	Sample Name
22	AAR	AA99071-06 05111500001705 0272 THS P1 Day 3 URN-1
22	AAR	AA99071-06 05111500001706 0272 THS P1 Day 4 URN-1
22	AAR	AA99071-06 05111500001707 0272 THS P1 Day 5 URN-1
22	AAR	AA99071-06 05111500001708 0272 THS P1 Day 6 URN-1
24	AAR	AA99071-06 05111500000758 0285 CC P1 Day 1 URN-1
24	AAR	AA99071-06 05111500000760 0285 CC P1 Day 3 URN-1
24	AAR	AA99071-06 05111500001786 0287 THS P1 Day 0 URN-1
24	AAR	AA99071-06 05111500001800 0291 THS P1 Day 0 URN-1
24	AAR	AA99071-06 05111500001804 0291 THS P1 Day 4 URN-1
24	AAR	AA99071-06 05111500001805 0291 THS P1 Day 5 URN-1
26	AAR	AA99071-06 05111500000764 0298 CC P1 Day 0 URN-1
26	AAR	AA99071-06 05111500000765 0298 CC P1 Day 1 URN-1
26	AAR	AA99071-06 05111500000766 0298 CC P1 Day 2 URN-1
26	AAR	AA99071-06 05111500000767 0298 CC P1 Day 3 URN-1
26	AAR	AA99071-06 05111500000768 0298 CC P1 Day 4 URN-1
26	AAR	AA99071-06 05111500000770 0298 CC P1 Day 6 URN-1
26	AAR	AA99071-06 05111500000778 0315 CC P1 Day 0 URN-1
26	AAR	AA99071-06 05111500000785 0318 CC P1 Day 0 URN-1
26	AAR	AA99071-06 05111500000786 0318 CC P1 Day 1 URN-1
26	AAR	AA99071-06 05111500000787 0318 CC P1 Day 2 URN-1
26	AAR	AA99071-06 05111500000788 0318 CC P1 Day 3 URN-1
26	AAR	AA99071-06 05111500000789 0318 CC P1 Day 4 URN-1
26	AAR	AA99071-06 05111500000790 0318 CC P1 Day 5 URN-1
26	AAR	AA99071-06 05111500000791 0318 CC P1 Day 6 URN-1
28	AAR	AA99071-06 05111500001898 0320 THS P1 Day 0 URN-1
28	AAR	AA99071-06 05111500001899 0320 THS P1 Day 1 URN-1
28	AAR	AA99071-06 05111500001903 0320 THS P1 Day 5 URN-1
34	AAR	AA99071-06 05111500000547 0255 THS P1 Day 0 URN-1





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

Table 27 Summary of Reassay for Analytical Reasons for Nicotine-*N*-Glucuronide

Run Id	Reason	Sample Name
21	UISR	AA99071-06 05111500000560 0256 THS P1 Day 6 URN-1



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 28 Incurred Sample Reproducibility Assessment for Nicotine

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	N cotine	ng/mL	656	649	653	1.07	Pass	No	98.9
0042	1	Day 4	Nicotine	ng/mL	2350	2450	2,400	4.17	Pass	No	
0053	1	Day 0	Nicotine	ng/mL	376	403	390	6.92	Pass	No	
0064	1	Day 1	N cotine	ng/mL	247	250	249	1.20	Pass	No	
0067	1	Day 3	Nicotine	ng/mL	303	297	300	2.00	Pass	No	
0072	1	Day 4	Nicotine	ng/mL	594	578	586	2.73	Pass	No	
0072	1	Day 5	Nicotine	ng/mL	748	706	727	5.78	Pass	No	
0080	1	Day 4	Nicotine	ng/mL	194	170	182	13.19	Pass	No	
0118	1	Day 0	Nicotine	ng/mL	1200	1230	1,220	2.46	Pass	No	
0001	1	Day 0	Nicotine	ng/mL	336	361	349	7.16	Pass	No	
0008	1	Day 5	Nicotine	ng/mL	1480	1410	1,450	4.83	Pass	No	
0011	1	Day 0	N cotine	ng/mL	244	252	248	3.23	Pass	No	
0016	1	Day 5	Nicotine	ng/mL	860	892	876	3.65	Pass	No	
0020	1	Day 5	Nicotine	ng/mL	1310	1330	1,320	1.52	Pass	No	
0021	1	Day 5	Nicotine	ng/mL	366	363	365	0.82	Pass	No	
0030	1	Day 0	Nicotine	ng/mL	190	201	196	5.61	Pass	No	
0030	1	Day 5	Nicotine	ng/mL	655	636	646	2.94	Pass	No	
0031	1	Day 1	N cotine	ng/mL	1680	1580	1,630	6.13	Pass	No	
0034	1	Day 6	Nicotine	ng/mL	536	488	512	9.38	Pass	No	
0038	1	Day 0	Nicotine	ng/mL	833	807	820	3.17	Pass	No	
0039	1	Day 2	N cotine	ng/mL	339	347	343	2.33	Pass	No	
0044	1	Day 3	Nicotine	ng/mL	204	205	205	0.49	Pass	No	
0057	1	Day 1	Nicotine	ng/mL	684	666	675	2.67	Pass	No	
0060	1	Day 4	Nicotine	ng/mL	1490	1390	1,440	6.94	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	Nicotine	ng/mL	176	175	176	0.57	Pass	No	
0069	1	Day 1	Nicotine	ng/mL	884	889	887	0.56	Pass	No	
0074	1	Day 0	Nicotine	ng/mL	551	565	558	2.51	Pass	No	
0083	1	Day 4	Nicotine	ng/mL	844	892	868	5.53	Pass	No	
0085	1	Day 1	Nicotine	ng/mL	250	247	249	1.20	Pass	No	
0106	1	Day 0	Nicotine	ng/mL	569	633	601	10.65	Pass	No	
0107	1	Day 0	Nicotine	ng/mL	914	821	868	10.71	Pass	No	
0110	1	Day 3	Nicotine	ng/mL	1140	1160	1,150	1.74	Pass	No	
0122	1	Day 2	Nicotine	ng/mL	505	468	487	7.60	Pass	No	
0129	1	Day 5	Nicotine	ng/mL	500	515	508	2.95	Pass	No	
0134	1	Day 3	Nicotine	ng/mL	1440	1470	1,460	2.05	Pass	No	
0136	1	Day 0	Nicotine	ng/mL	858	855	857	0.35	Pass	No	
0147	1	Day 1	Nicotine	ng/mL	667	668	668	0.15	Pass	No	
0153	1	Day 5	Nicotine	ng/mL	170	185	178	8.43	Pass	No	
0155	1	Day 3	Nicotine	ng/mL	182	176	179	3.35	Pass	No	
0162	1	Day 4	Nicotine	ng/mL	1630	1650	1,640	1.22	Pass	No	
0167	1	Day 5	Nicotine	ng/mL	351	354	353	0.85	Pass	No	
0170	1	Day 5	Nicotine	ng/mL	212	226	219	6.39	Pass	No	
0177	1	Day 0	Nicotine	ng/mL	334	380	357	12.89	Pass	No	
0181	1	Day 0	Nicotine	ng/mL	893	903	898	1.11	Pass	No	
0181	1	Day 2	Nicotine	ng/mL	2400	2450	2,430	2.06	Pass	No	
0189	1	Day 2	Nicotine	ng/mL	567	569	568	0.35	Pass	No	
0192	1	Day 4	Nicotine	ng/mL	3550	3360	3,460	5.49	Pass	No	
0195	1	Day 0	Nicotine	ng/mL	493	496	495	0.61	Pass	No	
0202	1	Day 4	Nicotine	ng/mL	1820	1780	1,800	2.22	Pass	No	
0202	1	Day 5	Nicotine	ng/mL	882	832	857	5.83	Pass	No	
0210	1	Day 5	Nicotine	ng/mL	550	556	553	1.08	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	Nicotine	ng/mL	167	176	172	5.23	Pass	No	
0228	1	Day 6	Nicotine	ng/mL	710	740	725	4.14	Pass	No	
0232	1	Day 5	Nicotine	ng/mL	392	393	393	0.25	Pass	No	
0255	1	Day 0	Nicotine	ng/mL	345	373	359	7.80	Pass	No	
0156	1	Day 0	Nicotine	ng/mL	784	779	782	0.64	Pass	No	
0126	1	Day 0	Nicotine	ng/mL	549	517	533	6.00	Pass	No	
0139	1	Day 3	Nicotine	ng/mL	1330	1280	1,310	3.82	Pass	No	
0140	1	Day 0	Nicotine	ng/mL	222	234	228	5.26	Pass	No	
0148	1	Day 0	Nicotine	ng/mL	1040	1010	1,030	2.91	Pass	No	
0152	1	Day 3	Nicotine	ng/mL	152	146	149	4.03	Pass	No	
0160	1	Day 4	Nicotine	ng/mL	2720	2720	2,720	0.00	Pass	No	
0187	1	Day 0	Nicotine	ng/mL	168	179	174	6.32	Pass	No	
0191	1	Day 0	Nicotine	ng/mL	183	199	191	8.38	Pass	No	
0198	1	Day 3	Nicotine	ng/mL	1530	1490	1,510	2.65	Pass	No	
0198	1	Day 5	Nicotine	ng/mL	1020	991	1,010	2.87	Pass	No	
0200	1	Day 0	Nicotine	ng/mL	151	153	152	1.32	Pass	No	
0204	1	Day 2	Nicotine	ng/mL	690	714	702	3.42	Pass	No	
0229	1	Day 6	Nicotine	ng/mL	318	317	318	0.31	Pass	No	
0230	1	Day 5	Nicotine	ng/mL	644	626	635	2.83	Pass	No	
0262	1	Day 6	Nicotine	ng/mL	540	516	528	4.55	Pass	No	
0278	1	Day 0	Nicotine	ng/mL	167	142	155	16.13	Pass	No	
0283	1	Day 5	Nicotine	ng/mL	237	231	234	2.56	Pass	No	
0313	1	Day 1	Nicotine	ng/mL	517	508	513	1.75	Pass	No	
0315	1	Day 3	Nicotine	ng/mL	1460	1340	1,400	8.57	Pass	No	
0322	1	Day 4	Nicotine	ng/mL	246	248	247	0.81	Pass	No	
0322	1	Day 5	Nicotine	ng/mL	150	150	150	0.00	Pass	No	
0328	1	Day 4	Nicotine	ng/mL	340	342	341	0.59	Pass	No	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0264	1	Day 2	Nicotine	ng/mL	685	766	726	11.16	Pass	No	
0272	1	Day 4	Nicotine	ng/mL	2330	2230	2,280	4.39	Pass	No	
0276	1	Day 3	Nicotine	ng/mL	356	347	352	2.56	Pass	No	
0277	1	Day 0	Nicotine	ng/mL	219	206	213	6.10	Pass	No	
0281	1	Day 4	Nicotine	ng/mL	4100	3880	3,990	5.51	Pass	No	
0282	1	Day 6	Nicotine	ng/mL	866	837	852	3.40	Pass	No	
0287	1	Day 6	Nicotine	ng/mL	2630	2550	2,590	3.09	Pass	No	
0296	1	Day 3	Nicotine	ng/mL	508	501	505	1.39	Pass	No	
0296	1	Day 5	Nicotine	ng/mL	175	169	172	3.49	Pass	No	
0301	1	Day 4	Nicotine	ng/mL	1380	1370	1,380	0.72	Pass	No	
0307	1	Day 4	Nicotine	ng/mL	1850	1770	1,810	4.42	Pass	No	
0308	1	Day 1	Nicotine	ng/mL	2600	2310	2,460	11.79	Pass	No	
0320	1	Day 6	Nicotine	ng/mL	2370	2390	2,380	0.84	Pass	No	
0321	1	Day 1	Nicotine	ng/mL	709	501	605	34.38	Fail	No	
0321	1	Day 6	Nicotine	ng/mL	4610	4540	4,580	1.53	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 29 Incurred Sample Reproducibility Assessment for Cotinine

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	Cotinine	ng/mL	827	814	821	1.58	Pass	No	97.8
0042	1	Day 4	Cotinine	ng/mL	2070	2010	2,040	2.94	Pass	No	
0053	1	Day 0	Cotinine	ng/mL	1520	1570	1,550	3.23	Pass	No	
0064	1	Day 1	Cotinine	ng/mL	797	771	784	3.32	Pass	No	
0067	1	Day 3	Cotinine	ng/mL	424	426	425	0.47	Pass	No	
0072	1	Day 4	Cotinine	ng/mL	1600	1480	1,540	7.79	Pass	No	
0072	1	Day 5	Cotinine	ng/mL	1140	1160	1,150	1.74	Pass	No	
0080	1	Day 4	Cotinine	ng/mL	809	793	801	2.00	Pass	No	
0118	1	Day 0	Cotinine	ng/mL	1620	1650	1,640	1.83	Pass	No	
0001	1	Day 0	Cotinine	ng/mL	608	656	632	7.59	Pass	No	
0008	1	Day 5	Cotinine	ng/mL	2470	2420	2,450	2.04	Pass	No	
0011	1	Day 0	Cotinine	ng/mL	800	792	796	1.01	Pass	No	
0016	1	Day 5	Cotinine	ng/mL	1960	2010	1,990	2.51	Pass	No	
0020	1	Day 5	Cotinine	ng/mL	1620	1640	1,630	1.23	Pass	No	
0021	1	Day 5	Cotinine	ng/mL	1270	1360	1,320	6.82	Pass	No	
0030	1	Day 0	Cotinine	ng/mL	644	623	634	3.31	Pass	No	
0030	1	Day 5	Cotinine	ng/mL	913	872	893	4.59	Pass	No	
0031	1	Day 1	Cotinine	ng/mL	1540	1630	1,590	5.66	Pass	No	
0034	1	Day 6	Cotinine	ng/mL	719	756	738	5.01	Pass	No	
0038	1	Day 0	Cotinine	ng/mL	1850	1920	1,890	3.70	Pass	No	
0039	1	Day 2	Cotinine	ng/mL	1260	1220	1,240	3.23	Pass	No	
0044	1	Day 3	Cotinine	ng/mL	600	595	598	0.84	Pass	No	
0057	1	Day 1	Cotinine	ng/mL	1350	1280	1,320	5.30	Pass	No	
0060	1	Day 4	Cotinine	ng/mL	1850	1810	1,830	2.19	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	Cotinine	ng/mL	900	856	878	5.01	Pass	No	
0069	1	Day 1	Cotinine	ng/mL	1220	1170	1,200	4.17	Pass	No	
0074	1	Day 0	Cotinine	ng/mL	1360	1430	1,400	5.00	Pass	No	
0083	1	Day 4	Cotinine	ng/mL	1460	1490	1,480	2.03	Pass	No	
0085	1	Day 1	Cotinine	ng/mL	467	442	455	5.49	Pass	No	
0106	1	Day 0	Cotinine	ng/mL	836	891	864	6.37	Pass	No	
0107	1	Day 0	Cotinine	ng/mL	1190	1190	1,190	0.00	Pass	No	
0110	1	Day 3	Cotinine	ng/mL	1280	1240	1,260	3.17	Pass	No	
0122	1	Day 2	Cotinine	ng/mL	954	965	960	1.15	Pass	No	
0129	1	Day 5	Cotinine	ng/mL	961	986	974	2.57	Pass	No	
0134	1	Day 3	Cotinine	ng/mL	964	949	957	1.57	Pass	No	
0136	1	Day 0	Cotinine	ng/mL	2030	2030	2,030	0.00	Pass	No	
0147	1	Day 1	Cotinine	ng/mL	756	770	763	1.83	Pass	No	
0153	1	Day 5	Cotinine	ng/mL	908	907	908	0.11	Pass	No	
0155	1	Day 3	Cotinine	ng/mL	435	419	427	3.75	Pass	No	
0162	1	Day 4	Cotinine	ng/mL	1950	2010	1,980	3.03	Pass	No	
0167	1	Day 5	Cotinine	ng/mL	1370	1350	1,360	1.47	Pass	No	
0170	1	Day 5	Cotinine	ng/mL	576	562	569	2.46	Pass	No	
0177	1	Day 0	Cotinine	ng/mL	1510	1570	1,540	3.90	Pass	No	
0181	1	Day 0	Cotinine	ng/mL	2350	2380	2,370	1.27	Pass	No	
0181	1	Day 2	Cotinine	ng/mL	2660	2560	2,610	3.83	Pass	No	
0189	1	Day 2	Cotinine	ng/mL	537	558	548	3.83	Pass	No	
0192	1	Day 4	Cotinine	ng/mL	2210	2280	2,250	3.11	Pass	No	
0195	1	Day 0	Cotinine	ng/mL	346	352	349	1.72	Pass	No	
0202	1	Day 4	Cotinine	ng/mL	2170	2290	2,230	5.38	Pass	No	
0202	1	Day 5	Cotinine	ng/mL	2020	2020	2,020	0.00	Pass	No	
0210	1	Day 5	Cotinine	ng/mL	1410	1430	1,420	1.41	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	Cotin n	ng/mL	561	556	559	0.89	Pass	No	
0228	1	Day 6	Cotinine	ng/mL	1300	1330	1,320	2.27	Pass	No	
0232	1	Day 5	Cotinine	ng/mL	900	965	933	6.97	Pass	No	
0255	1	Day 0	Cotinine	ng/mL	1060	1070	1,070	0.93	Pass	No	
0156	1	Day 0	Cotinine	ng/mL	1460	1460	1,460	0.00	Pass	No	
0126	1	Day 0	Cotinine	ng/mL	572	603	588	5.27	Pass	No	
0139	1	Day 3	Cotinine	ng/mL	825	880	853	6.45	Pass	No	
0140	1	Day 0	Cotinine	ng/mL	746	736	741	1.35	Pass	No	
0148	1	Day 0	Cotinine	ng/mL	2690	2770	2,730	2.93	Pass	No	
0152	1	Day 3	Cotinine	ng/mL	667	670	669	0.45	Pass	No	
0160	1	Day 4	Cotinine	ng/mL	1760	1750	1,760	0.57	Pass	No	
0187	1	Day 0	Cotinine	ng/mL	1470	1460	1,470	0.68	Pass	No	
0191	1	Day 0	Cotinine	ng/mL	636	615	626	3.35	Pass	No	
0198	1	Day 3	Cotinine	ng/mL	1920	2030	1,980	5.56	Pass	No	
0198	1	Day 5	Cotinine	ng/mL	2110	2080	2,100	1.43	Pass	No	
0200	1	Day 0	Cotinine	ng/mL	802	834	818	3.91	Pass	No	
0204	1	Day 2	Cotinine	ng/mL	791	817	804	3.23	Pass	No	
0229	1	Day 6	Cotinine	ng/mL	424	441	433	3.93	Pass	No	
0230	1	Day 5	Cotinine	ng/mL	843	842	843	0.12	Pass	No	
0262	1	Day 6	Cotinine	ng/mL	485	484	485	0.21	Pass	No	
0278	1	Day 0	Cotinine	ng/mL	1310	1070	1,190	20.17	Fail	No	
0283	1	Day 5	Cotinine	ng/mL	728	712	720	2.22	Pass	No	
0313	1	Day 1	Cotinine	ng/mL	1100	1120	1,110	1.80	Pass	No	
0315	1	Day 3	Cotinine	ng/mL	1040	1080	1,060	3.77	Pass	No	
0322	1	Day 4	Cotinine	ng/mL	515	534	525	3.62	Pass	No	
0322	1	Day 5	Cotinine	ng/mL	461	504	483	8.90	Pass	No	
0328	1	Day 4	Cotinine	ng/mL	525	529	527	0.76	Pass	No	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0264	1	Day 2	Cotin n	ng/mL	857	840	849	2.00	Pass	No	
0272	1	Day 4	Cotinine	ng/mL	2590	2550	2,570	1.56	Pass	No	
0276	1	Day 3	Cotinine	ng/mL	501	509	505	1.58	Pass	No	
0277	1	Day 0	Cotinine	ng/mL	1040	1010	1,030	2.91	Pass	No	
0281	1	Day 4	Cotinine	ng/mL	1930	1910	1,920	1.04	Pass	No	
0282	1	Day 6	Cotinine	ng/mL	1090	1100	1,100	0.91	Pass	No	
0287	1	Day 6	Cotinine	ng/mL	2350	2410	2,380	2.52	Pass	No	
0296	1	Day 3	Cotinine	ng/mL	1490	1510	1,500	1.33	Pass	No	
0296	1	Day 5	Cotinine	ng/mL	1500	1440	1,470	4.08	Pass	No	
0301	1	Day 4	Cotinine	ng/mL	1280	1250	1,270	2.36	Pass	No	
0307	1	Day 4	Cotinine	ng/mL	2290	2230	2,260	2.65	Pass	No	
0308	1	Day 1	Cotinine	ng/mL	2200	2300	2,250	4.44	Pass	No	
0320	1	Day 6	Cotinine	ng/mL	2220	2300	2,260	3.54	Pass	No	
0321	1	Day 1	Cotinine	ng/mL	1130	783	957	36.26	Fail	No	
0321	1	Day 6	Cotinine	ng/mL	2280	2280	2,280	0.00	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 30 Incurred Sample Reproducibility Assessment for *trans*-3'-Hydroxycotinine

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	THC	ng/mL	1630	1680	1,660	3.01	Pass	No	97.8
0042	1	Day 4	THC	ng/mL	4470	4410	4,440	1.35	Pass	No	
0053	1	Day 0	THC	ng/mL	6090	5310	5,700	13.68	Pass	No	
0064	1	Day 1	THC	ng/mL	2480	2530	2,510	1.99	Pass	No	
0067	1	Day 3	THC	ng/mL	1400	1350	1,380	3.62	Pass	No	
0072	1	Day 4	THC	ng/mL	6380	6260	6,320	1.90	Pass	No	
0072	1	Day 5	THC	ng/mL	3350	3300	3,330	1.50	Pass	No	
0080	1	Day 4	THC	ng/mL	1300	1130	1,220	13.93	Pass	No	
0118	1	Day 0	THC	ng/mL	4090	3880	3,990	5.26	Pass	No	
0001	1	Day 0	THC	ng/mL	728	755	742	3.64	Pass	No	
0008	1	Day 5	THC	ng/mL	6750	6550	6,650	3.01	Pass	No	
0011	1	Day 0	THC	ng/mL	3130	3010	3,070	3.91	Pass	No	
0016	1	Day 5	THC	ng/mL	9250	8120	8,690	13.00	Pass	No	
0020	1	Day 5	THC	ng/mL	7000	6580	6,790	6.19	Pass	No	
0021	1	Day 5	THC	ng/mL	1010	1060	1,040	4.81	Pass	No	
0030	1	Day 0	THC	ng/mL	2210	2020	2,120	8.96	Pass	No	
0030	1	Day 5	THC	ng/mL	1340	1300	1,320	3.03	Pass	No	
0031	1	Day 1	THC	ng/mL	6650	6380	6,520	4.14	Pass	No	
0034	1	Day 6	THC	ng/mL	1570	1450	1,510	7.95	Pass	No	
0038	1	Day 0	THC	ng/mL	7070	7050	7,060	0.28	Pass	No	
0039	1	Day 2	THC	ng/mL	4740	4650	4,700	1.91	Pass	No	
0044	1	Day 3	THC	ng/mL	911	889	900	2.44	Pass	No	
0057	1	Day 1	THC	ng/mL	845	840	843	0.59	Pass	No	
0060	1	Day 4	THC	ng/mL	961	918	940	4.57	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	THC	ng/mL	2130	2120	2,130	0.47	Pass	No	
0069	1	Day 1	THC	ng/mL	989	998	994	0.91	Pass	No	
0074	1	Day 0	THC	ng/mL	4630	4340	4,490	6.46	Pass	No	
0083	1	Day 4	THC	ng/mL	4090	3900	4,000	4.75	Pass	No	
0085	1	Day 1	THC	ng/mL	904	845	875	6.74	Pass	No	
0106	1	Day 0	THC	ng/mL	1290	1270	1,280	1.56	Pass	No	
0107	1	Day 0	THC	ng/mL	2670	2300	2,490	14.86	Pass	No	
0110	1	Day 3	THC	ng/mL	5840	5330	5,590	9.12	Pass	No	
0122	1	Day 2	THC	ng/mL	942	917	930	2.69	Pass	No	
0129	1	Day 5	THC	ng/mL	2990	2970	2,980	0.67	Pass	No	
0134	1	Day 3	THC	ng/mL	2310	2370	2,340	2.56	Pass	No	
0136	1	Day 0	THC	ng/mL	7920	7600	7,760	4.12	Pass	No	
0147	1	Day 1	THC	ng/mL	2380	2190	2,290	8.30	Pass	No	
0153	1	Day 5	THC	ng/mL	4470	4280	4,380	4.34	Pass	No	
0155	1	Day 3	THC	ng/mL	1080	1080	1,080	0.00	Pass	No	
0162	1	Day 4	THC	ng/mL	6630	6530	6,580	1.52	Pass	No	
0167	1	Day 5	THC	ng/mL	4330	4330	4,330	0.00	Pass	No	
0170	1	Day 5	THC	ng/mL	1300	1270	1,290	2.33	Pass	No	
0177	1	Day 0	THC	ng/mL	6460	6180	6,320	4.43	Pass	No	
0181	1	Day 0	THC	ng/mL	12400	11800	12,100	4.96	Pass	No	
0181	1	Day 2	THC	ng/mL	6320	5910	6,120	6.70	Pass	No	
0189	1	Day 2	THC	ng/mL	1680	1620	1,650	3.64	Pass	No	
0192	1	Day 4	THC	ng/mL	8760	7290	8,030	18.31	Pass	No	
0195	1	Day 0	THC	ng/mL	1680	1630	1,660	3.01	Pass	No	
0202	1	Day 4	THC	ng/mL	6390	6260	6,330	2.05	Pass	No	
0202	1	Day 5	THC	ng/mL	7340	7760	7,550	5.56	Pass	No	
0210	1	Day 5	THC	ng/mL	3760	3530	3,650	6.30	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	THC	ng/mL	1240	1180	1,210	4.96	Pass	No	
0228	1	Day 6	THC	ng/mL	1810	1720	1,770	5.08	Pass	No	
0232	1	Day 5	THC	ng/mL	2530	2440	2,490	3.61	Pass	No	
0156	1	Day 0	THC	ng/mL	6100	6220	6,160	1.95	Pass	No	
0126	1	Day 0	THC	ng/mL	822	802	812	2.46	Pass	No	
0139	1	Day 3	THC	ng/mL	1180	1260	1,220	6.56	Pass	No	
0140	1	Day 0	THC	ng/mL	2320	2150	2,240	7.59	Pass	No	
0148	1	Day 0	THC	ng/mL	11200	10700	11,000	4.55	Pass	No	
0152	1	Day 3	THC	ng/mL	1060	1080	1,070	1.87	Pass	No	
0160	1	Day 4	THC	ng/mL	5770	5670	5,720	1.75	Pass	No	
0187	1	Day 0	THC	ng/mL	3790	3610	3,700	4.86	Pass	No	
0191	1	Day 0	THC	ng/mL	2440	2490	2,470	2.02	Pass	No	
0198	1	Day 3	THC	ng/mL	5600	5720	5,660	2.12	Pass	No	
0198	1	Day 5	THC	ng/mL	6620	6660	6,640	0.60	Pass	No	
0200	1	Day 0	THC	ng/mL	1930	1790	1,860	7.53	Pass	No	
0204	1	Day 2	THC	ng/mL	1040	1020	1,030	1.94	Pass	No	
0229	1	Day 6	THC	ng/mL	1450	1370	1,410	5.67	Pass	No	
0230	1	Day 5	THC	ng/mL	986	949	968	3.82	Pass	No	
0262	1	Day 6	THC	ng/mL	1440	1400	1,420	2.82	Pass	No	
0278	1	Day 0	THC	ng/mL	4050	3290	3,670	20.71	Fail	No	
0283	1	Day 5	THC	ng/mL	2180	2130	2,160	2.31	Pass	No	
0313	1	Day 1	THC	ng/mL	1440	1410	1,430	2.10	Pass	No	
0315	1	Day 3	THC	ng/mL	1730	1680	1,710	2.92	Pass	No	
0322	1	Day 4	THC	ng/mL	1290	1310	1,300	1.54	Pass	No	
0322	1	Day 5	THC	ng/mL	1350	1300	1,330	3.76	Pass	No	
0328	1	Day 4	THC	ng/mL	1060	1050	1,060	0.94	Pass	No	
0264	1	Day 2	THC	ng/mL	1240	1220	1,230	1.63	Pass	No	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0272	1	Day 4	THC	ng/mL	11400	9980	10,700	13.27	Pass	No	
0276	1	Day 3	THC	ng/mL	1340	1270	1,310	5.34	Pass	No	
0277	1	Day 0	THC	ng/mL	4280	4140	4,210	3.33	Pass	No	
0281	1	Day 4	THC	ng/mL	3600	3470	3,540	3.67	Pass	No	
0282	1	Day 6	THC	ng/mL	1090	1040	1,070	4.67	Pass	No	
0287	1	Day 6	THC	ng/mL	3980	3920	3,950	1.52	Pass	No	
0296	1	Day 3	THC	ng/mL	4570	4560	4,570	0.22	Pass	No	
0296	1	Day 5	THC	ng/mL	4800	4620	4,710	3.82	Pass	No	
0301	1	Day 4	THC	ng/mL	3670	3370	3,520	8.52	Pass	No	
0307	1	Day 4	THC	ng/mL	4860	4670	4,770	3.98	Pass	No	
0308	1	Day 1	THC	ng/mL	2160	2070	2,120	4.25	Pass	No	
0320	1	Day 6	THC	ng/mL	4520	4560	4,540	0.88	Pass	No	
0321	1	Day 1	THC	ng/mL	1010	679	845	39.17	Fail	No	
0321	1	Day 6	THC	ng/mL	2040	1950	2,000	4.50	Pass	No	
0255	1	Day 0	THC	ng/mL	4830	5150	4,990	6.41	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 31 Incurred Sample Reproducibility Assessment for Nicotine-*N*-Glucuronide

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	Nicotine-N-Gluc	ng/mL	169	164	167	2.99	Pass	No	98.9
0042	1	Day 4	Nicotine-N Gluc	ng/mL	2050	2010	2,030	1.97	Pass	No	
0053	1	Day 0	Nicotine-N Gluc	ng/mL	195	205	200	5.00	Pass	No	
0064	1	Day 1	Nicotine-N Gluc	ng/mL	781	749	765	4.18	Pass	No	
0067	1	Day 3	Nicotine-N Gluc	ng/mL	286	280	283	2.12	Pass	No	
0072	1	Day 4	Nicotine-N Gluc	ng/mL	327	288	308	12.66	Pass	No	
0072	1	Day 5	Nicotine-N-Gluc	ng/mL	193	184	189	4.76	Pass	No	
0080	1	Day 4	Nicotine-N-Gluc	ng/mL	541	479	510	12.16	Pass	No	
0118	1	Day 0	Nicotine-N-Gluc	ng/mL	415	423	419	1.91	Pass	No	
0001	1	Day 0	Nicotine-N Gluc	ng/mL	372	377	375	1.33	Pass	No	
0008	1	Day 5	Nicotine-N Gluc	ng/mL	1010	983	997	2.71	Pass	No	
0011	1	Day 0	Nicotine-N Gluc	ng/mL	446	436	441	2.27	Pass	No	
0016	1	Day 5	Nicotine-N Gluc	ng/mL	896	917	907	2.32	Pass	No	
0020	1	Day 5	Nicotine-N Gluc	ng/mL	314	319	317	1.58	Pass	No	
0021	1	Day 5	Nicotine-N-Gluc	ng/mL	335	339	337	1.19	Pass	No	
0030	1	Day 0	Nicotine-N-Gluc	ng/mL	683	660	672	3.42	Pass	No	
0030	1	Day 5	Nicotine-N-Gluc	ng/mL	1250	1240	1,250	0.80	Pass	No	
0031	1	Day 1	Nicotine-N Gluc	ng/mL	1370	1340	1,360	2.21	Pass	No	
0034	1	Day 6	Nicotine-N Gluc	ng/mL	261	264	263	1.14	Pass	No	
0038	1	Day 0	Nicotine-N Gluc	ng/mL	611	572	592	6.59	Pass	No	
0039	1	Day 2	Nicotine-N Gluc	ng/mL	165	167	166	1.20	Pass	No	
0044	1	Day 3	Nicotine-N Gluc	ng/mL	301	291	296	3.38	Pass	No	
0057	1	Day 1	Nicotine-N-Gluc	ng/mL	771	767	769	0.52	Pass	No	
0060	1	Day 4	Nicotine-N-Gluc	ng/mL	2960	3060	3,010	3.32	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-N-Glucuronide, Cotinine-N-Glucuronide, and *trans*-3'-Hydroxycotinine-O-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	Nicotine-N-Gluc	ng/mL	270	271	271	0.37	Pass	No	
0069	1	Day 1	Nicotine-N-Gluc	ng/mL	638	640	639	0.31	Pass	No	
0074	1	Day 0	Nicotine-N-Gluc	ng/mL	1090	1090	1,090	0.00	Pass	No	
0083	1	Day 4	Nicotine-N-Gluc	ng/mL	529	552	541	4.25	Pass	No	
0085	1	Day 1	Nicotine-N-Gluc	ng/mL	602	587	595	2.52	Pass	No	
0106	1	Day 0	Nicotine-N-Gluc	ng/mL	217	214	216	1.39	Pass	No	
0107	1	Day 0	Nicotine-N-Gluc	ng/mL	1990	1710	1,850	15.14	Pass	No	
0110	1	Day 3	Nicotine-N-Gluc	ng/mL	625	584	605	6.78	Pass	No	
0122	1	Day 2	Nicotine-N-Gluc	ng/mL	342	333	338	2.66	Pass	No	
0129	1	Day 5	Nicotine-N-Gluc	ng/mL	451	523	487	14.78	Pass	No	
0134	1	Day 3	Nicotine-N-Gluc	ng/mL	440	441	441	0.23	Pass	No	
0136	1	Day 0	Nicotine-N-Gluc	ng/mL	859	811	835	5.75	Pass	No	
0147	1	Day 1	Nicotine-N-Gluc	ng/mL	393	392	393	0.25	Pass	No	
0153	1	Day 5	Nicotine-N-Gluc	ng/mL	156	177	167	12.57	Pass	No	
0155	1	Day 3	Nicotine-N-Gluc	ng/mL	388	410	399	5.51	Pass	No	
0162	1	Day 4	Nicotine-N-Gluc	ng/mL	1050	1120	1,090	6.42	Pass	No	
0167	1	Day 5	Nicotine-N-Gluc	ng/mL	544	586	565	7.43	Pass	No	
0170	1	Day 5	Nicotine-N-Gluc	ng/mL	199	195	197	2.03	Pass	No	
0177	1	Day 0	Nicotine-N-Gluc	ng/mL	508	535	522	5.17	Pass	No	
0181	1	Day 0	Nicotine-N-Gluc	ng/mL	594	598	596	0.67	Pass	No	
0181	1	Day 2	Nicotine-N-Gluc	ng/mL	513	550	532	6.95	Pass	No	
0189	1	Day 2	Nicotine-N-Gluc	ng/mL	155	153	154	1.30	Pass	No	
0192	1	Day 4	Nicotine-N-Gluc	ng/mL	504	468	486	7.41	Pass	No	
0195	1	Day 0	Nicotine-N-Gluc	ng/mL	196	202	199	3.02	Pass	No	
0202	1	Day 4	Nicotine-N-Gluc	ng/mL	665	682	674	2.52	Pass	No	
0202	1	Day 5	Nicotine-N-Gluc	ng/mL	402	408	405	1.48	Pass	No	
0210	1	Day 5	Nicotine-N-Gluc	ng/mL	287	287	287	0.00	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	Nicotine-N-Gluc	ng/mL	192	177	185	8.11	Pass	No	
0228	1	Day 6	Nicotine-N-Gluc	ng/mL	466	487	477	4.40	Pass	No	
0232	1	Day 5	Nicotine-N-Gluc	ng/mL	164	155	160	5.63	Pass	No	
0255	1	Day 0	Nicotine-N-Gluc	ng/mL	185	202	194	8.76	Pass	No	
0156	1	Day 0	Nicotine-N-Gluc	ng/mL	429	440	435	2.53	Pass	No	
0126	1	Day 0	Nicotine-N-Gluc	ng/mL	587	602	595	2.52	Pass	No	
0139	1	Day 3	Nicotine-N-Gluc	ng/mL	986	1010	998	2.40	Pass	No	
0140	1	Day 0	Nicotine-N-Gluc	ng/mL	231	241	236	4.24	Pass	No	
0148	1	Day 0	Nicotine-N-Gluc	ng/mL	1480	1550	1,520	4.61	Pass	No	
0152	1	Day 3	Nicotine-N-Gluc	ng/mL	197	208	203	5.42	Pass	No	
0160	1	Day 4	Nicotine-N-Gluc	ng/mL	2110	2160	2,140	2.34	Pass	No	
0187	1	Day 0	Nicotine-N-Gluc	ng/mL	989	987	988	0.20	Pass	No	
0191	1	Day 0	Nicotine-N-Gluc	ng/mL	271	263	267	3.00	Pass	No	
0198	1	Day 3	Nicotine-N-Gluc	ng/mL	1350	1340	1,350	0.74	Pass	No	
0198	1	Day 5	Nicotine-N-Gluc	ng/mL	904	931	918	2.94	Pass	No	
0200	1	Day 0	Nicotine-N-Gluc	ng/mL	406	390	398	4.02	Pass	No	
0204	1	Day 2	Nicotine-N-Gluc	ng/mL	330	389	360	16.39	Pass	No	
0229	1	Day 6	Nicotine-N-Gluc	ng/mL	174	171	173	1.73	Pass	No	
0230	1	Day 5	Nicotine-N-Gluc	ng/mL	733	764	749	4.14	Pass	No	
0262	1	Day 6	Nicotine-N-Gluc	ng/mL	171	175	173	2.31	Pass	No	
0278	1	Day 0	Nicotine-N-Gluc	ng/mL	602	539	571	11.03	Pass	No	
0283	1	Day 5	Nicotine-N-Gluc	ng/mL	233	245	239	5.02	Pass	No	
0313	1	Day 1	Nicotine-N-Gluc	ng/mL	662	649	656	1.98	Pass	No	
0315	1	Day 3	Nicotine-N-Gluc	ng/mL	1090	1070	1,080	1.85	Pass	No	
0322	1	Day 4	Nicotine-N-Gluc	ng/mL	483	488	486	1.03	Pass	No	
0322	1	Day 5	Nicotine-N-Gluc	ng/mL	374	360	367	3.81	Pass	No	
0328	1	Day 4	Nicotine-N-Gluc	ng/mL	284	301	293	5.80	Pass	No	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0264	1	Day 2	Nicotine-N-Gluc	ng/mL	831	859	845	3.31	Pass	No	
0272	1	Day 4	Nicotine-N-Gluc	ng/mL	1680	1620	1,650	3.64	Pass	No	
0276	1	Day 3	Nicotine-N-Gluc	ng/mL	288	269	279	6.81	Pass	No	
0277	1	Day 0	Nicotine-N-Gluc	ng/mL	365	352	359	3.62	Pass	No	
0281	1	Day 4	Nicotine-N-Gluc	ng/mL	3520	3280	3,400	7.06	Pass	No	
0282	1	Day 6	Nicotine-N-Gluc	ng/mL	209	234	222	11.26	Pass	No	
0287	1	Day 6	Nicotine-N-Gluc	ng/mL	1750	1980	1,870	12.30	Pass	No	
0296	1	Day 3	Nicotine-N-Gluc	ng/mL	1590	1630	1,610	2.48	Pass	No	
0296	1	Day 5	Nicotine-N-Gluc	ng/mL	1070	1070	1,070	0.00	Pass	No	
0301	1	Day 4	Nicotine-N-Gluc	ng/mL	1690	1590	1,640	6.10	Pass	No	
0307	1	Day 4	Nicotine-N-Gluc	ng/mL	1170	1130	1,150	3.48	Pass	No	
0308	1	Day 1	Nicotine-N-Gluc	ng/mL	2890	2600	2,750	10.55	Pass	No	
0320	1	Day 6	Nicotine-N-Gluc	ng/mL	618	611	615	1.14	Pass	No	
0321	1	Day 1	Nicotine-N-Gluc	ng/mL	833	623	728	28.85	Fail	No	
0321	1	Day 6	Nicotine-N-Gluc	ng/mL	2340	2410	2,380	2.94	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 32 Incurred Sample Reproducibility Assessment for Cotinine-*N*-Glucuronide

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	Cotinine-N-Gluc	ng/mL	918	926	922	0.87	Pass	No	98.9
0042	1	Day 4	Cotinine-N-Gluc	ng/mL	5020	5410	5,220	7.47	Pass	No	
0053	1	Day 0	Cotinine-N-Gluc	ng/mL	1660	1830	1,750	9.71	Pass	No	
0064	1	Day 1	Cotinine-N-Gluc	ng/mL	2820	2830	2,830	0.35	Pass	No	
0067	1	Day 3	Cotinine-N-Gluc	ng/mL	2100	1990	2,050	5.37	Pass	No	
0072	1	Day 4	Cotinine-N-Gluc	ng/mL	3320	3040	3,180	8.81	Pass	No	
0072	1	Day 5	Cotinine-N-Gluc	ng/mL	1410	1450	1,430	2.80	Pass	No	
0080	1	Day 4	Cotinine-N-Gluc	ng/mL	3320	2980	3,150	10.79	Pass	No	
0118	1	Day 0	Cotinine-N-Gluc	ng/mL	3720	3690	3,710	0.81	Pass	No	
0001	1	Day 0	Cotinine-N-Gluc	ng/mL	1360	1390	1,380	2.17	Pass	No	
0008	1	Day 5	Cotinine-N-Gluc	ng/mL	6530	6700	6,620	2.57	Pass	No	
0011	1	Day 0	Cotinine-N-Gluc	ng/mL	2300	2300	2,300	0.00	Pass	No	
0016	1	Day 5	Cotinine-N-Gluc	ng/mL	8090	8670	8,380	6.92	Pass	No	
0020	1	Day 5	Cotinine-N-Gluc	ng/mL	3140	3210	3,180	2.20	Pass	No	
0021	1	Day 5	Cotinine-N-Gluc	ng/mL	1390	1310	1,350	5.93	Pass	No	
0030	1	Day 0	Cotinine-N-Gluc	ng/mL	4620	4740	4,680	2.56	Pass	No	
0030	1	Day 5	Cotinine-N-Gluc	ng/mL	4500	4420	4,460	1.79	Pass	No	
0031	1	Day 1	Cotinine-N-Gluc	ng/mL	7800	8060	7,930	3.28	Pass	No	
0034	1	Day 6	Cotinine-N-Gluc	ng/mL	1640	1710	1,680	4.17	Pass	No	
0038	1	Day 0	Cotinine-N-Gluc	ng/mL	4430	4410	4,420	0.45	Pass	No	
0039	1	Day 2	Cotinine-N-Gluc	ng/mL	2240	2200	2,220	1.80	Pass	No	
0044	1	Day 3	Cotinine-N-Gluc	ng/mL	2350	2370	2,360	0.85	Pass	No	
0057	1	Day 1	Cotinine-N-Gluc	ng/mL	3420	3120	3,270	9.17	Pass	No	
0060	1	Day 4	Cotinine-N-Gluc	ng/mL	4280	4280	4,280	0.00	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	Cotinine-N-Gluc	ng/mL	1800	1780	1,790	1 12	Pass	No	
0069	1	Day 1	Cotinine-N-Gluc	ng/mL	2430	2390	2,410	1 66	Pass	No	
0074	1	Day 0	Cotinine-N-Gluc	ng/mL	6930	7350	7,140	5 88	Pass	No	
0083	1	Day 4	Cotinine-N-Gluc	ng/mL	3450	3480	3,470	0 86	Pass	No	
0085	1	Day 1	Cotinine-N-Gluc	ng/mL	2700	2750	2,730	1 83	Pass	No	
0106	1	Day 0	Cotinine-N-Gluc	ng/mL	1060	1080	1,070	1 87	Pass	No	
0107	1	Day 0	Cotinine-N-Gluc	ng/mL	10900	8940	9,920	19 76	Pass	No	
0110	1	Day 3	Cotinine-N-Gluc	ng/mL	3940	3980	3,960	1 01	Pass	No	
0122	1	Day 2	Cotinine-N-Gluc	ng/mL	1630	1610	1,620	1 23	Pass	No	
0129	1	Day 5	Cotinine-N-Gluc	ng/mL	3990	3800	3,900	4 87	Pass	No	
0134	1	Day 3	Cotinine-N-Gluc	ng/mL	2420	2380	2,400	1 67	Pass	No	
0136	1	Day 0	Cotinine-N-Gluc	ng/mL	5770	6090	5,930	5 40	Pass	No	
0147	1	Day 1	Cotinine-N-Gluc	ng/mL	2580	2520	2,550	2 35	Pass	No	
0153	1	Day 5	Cotinine-N-Gluc	ng/mL	2160	2230	2,200	3 18	Pass	No	
0155	1	Day 3	Cotinine-N-Gluc	ng/mL	2460	2430	2,450	1 22	Pass	No	
0162	1	Day 4	Cotinine-N-Gluc	ng/mL	5230	5370	5,300	2 64	Pass	No	
0167	1	Day 5	Cotinine-N-Gluc	ng/mL	4150	3980	4,070	4 18	Pass	No	
0170	1	Day 5	Cotinine-N-Gluc	ng/mL	1450	1560	1,510	7 28	Pass	No	
0177	1	Day 0	Cotinine-N-Gluc	ng/mL	4990	5190	5,090	3 93	Pass	No	
0181	1	Day 0	Cotinine-N-Gluc	ng/mL	4890	5260	5,080	7 28	Pass	No	
0181	1	Day 2	Cotinine-N-Gluc	ng/mL	3330	3690	3,510	10 26	Pass	No	
0189	1	Day 2	Cotinine-N-Gluc	ng/mL	1400	1450	1,430	3 50	Pass	No	
0192	1	Day 4	Cotinine-N-Gluc	ng/mL	3070	3240	3,160	5 38	Pass	No	
0195	1	Day 0	Cotinine-N-Gluc	ng/mL	1470	1530	1,500	4 00	Pass	No	
0202	1	Day 4	Cotinine-N-Gluc	ng/mL	4690	4760	4,730	1 48	Pass	No	
0202	1	Day 5	Cotinine-N-Gluc	ng/mL	3340	3670	3,510	9 40	Pass	No	
0210	1	Day 5	Cotinine-N-Gluc	ng/mL	2310	2270	2,290	1 75	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	Cotinine-N-Gluc	ng/mL	2190	2120	2,160	3.24	Pass	No	
0228	1	Day 6	Cotinine-N-Gluc	ng/mL	2210	2310	2,260	4.42	Pass	No	
0232	1	Day 5	Cotinine-N-Gluc	ng/mL	1020	1040	1,030	1.94	Pass	No	
0255	1	Day 0	Cotinine-N-Gluc	ng/mL	2290	2420	2,360	5.51	Pass	No	
0156	1	Day 0	Cotinine-N-Gluc	ng/mL	5470	5450	5,460	0.37	Pass	No	
0126	1	Day 0	Cotinine-N-Gluc	ng/mL	2190	2250	2,220	2.70	Pass	No	
0139	1	Day 3	Cotinine-N-Gluc	ng/mL	3980	4020	4,000	1.00	Pass	No	
0140	1	Day 0	Cotinine-N-Gluc	ng/mL	1540	1620	1,580	5.06	Pass	No	
0148	1	Day 0	Cotinine-N-Gluc	ng/mL	12000	12400	12,200	3.28	Pass	No	
0152	1	Day 3	Cotinine-N-Gluc	ng/mL	789	815	802	3.24	Pass	No	
0160	1	Day 4	Cotinine-N-Gluc	ng/mL	9680	10300	9,990	6.21	Pass	No	
0187	1	Day 0	Cotinine-N-Gluc	ng/mL	5300	5070	5,190	4.43	Pass	No	
0191	1	Day 0	Cotinine-N-Gluc	ng/mL	2320	2330	2,330	0.43	Pass	No	
0198	1	Day 3	Cotinine-N-Gluc	ng/mL	8680	8520	8,600	1.86	Pass	No	
0198	1	Day 5	Cotinine-N-Gluc	ng/mL	7470	7590	7,530	1.59	Pass	No	
0200	1	Day 0	Cotinine-N-Gluc	ng/mL	2560	2590	2,580	1.16	Pass	No	
0204	1	Day 2	Cotinine-N-Gluc	ng/mL	1810	1920	1,870	5.88	Pass	No	
0229	1	Day 6	Cotinine-N-Gluc	ng/mL	1410	1350	1,380	4.35	Pass	No	
0230	1	Day 5	Cotinine-N-Gluc	ng/mL	2680	2560	2,620	4.58	Pass	No	
0262	1	Day 6	Cotinine-N-Gluc	ng/mL	1440	1460	1,450	1.38	Pass	No	
0278	1	Day 0	Cotinine-N-Gluc	ng/mL	4390	3780	4,090	14.91	Pass	No	
0283	1	Day 5	Cotinine-N-Gluc	ng/mL	1600	1580	1,590	1.26	Pass	No	
0313	1	Day 1	Cotinine-N-Gluc	ng/mL	2310	2310	2,310	0.00	Pass	No	
0315	1	Day 3	Cotinine-N-Gluc	ng/mL	3950	3940	3,950	0.25	Pass	No	
0322	1	Day 4	Cotinine-N-Gluc	ng/mL	2300	2250	2,280	2.19	Pass	No	
0322	1	Day 5	Cotinine-N-Gluc	ng/mL	2020	2060	2,040	1.96	Pass	No	
0328	1	Day 4	Cotinine-N-Gluc	ng/mL	1530	1520	1,530	0.65	Pass	No	





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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0264	1	Day 2	Cot nine-N-Gluc	ng/mL	3270	3240	3,260	0.92	Pass	No	
0272	1	Day 4	Cotinine-N-Gluc	ng/mL	8330	8250	8,290	0.97	Pass	No	
0276	1	Day 3	Cotinine-N-Gluc	ng/mL	1110	1140	1,130	2.65	Pass	No	
0277	1	Day 0	Cotinine-N-Gluc	ng/mL	2670	2660	2,670	0.37	Pass	No	
0281	1	Day 4	Cotinine-N-Gluc	ng/mL	12500	13100	12,800	4.69	Pass	No	
0282	1	Day 6	Cotinine-N-Gluc	ng/mL	1380	1420	1,400	2.86	Pass	No	
0287	1	Day 6	Cotinine-N-Gluc	ng/mL	8240	9020	8,630	9.04	Pass	No	
0296	1	Day 3	Cotinine-N-Gluc	ng/mL	9190	9230	9,210	0.43	Pass	No	
0296	1	Day 5	Cotinine-N-Gluc	ng/mL	7510	7760	7,640	3.27	Pass	No	
0301	1	Day 4	Cotinine-N-Gluc	ng/mL	8310	8280	8,300	0.36	Pass	No	
0307	1	Day 4	Cotinine-N-Gluc	ng/mL	6600	5990	6,300	9.68	Pass	No	
0308	1	Day 1	Cotinine-N-Gluc	ng/mL	8710	8470	8,590	2.79	Pass	No	
0320	1	Day 6	Cotinine-N-Gluc	ng/mL	3950	3820	3,890	3.34	Pass	No	
0321	1	Day 1	Cotinine-N-Gluc	ng/mL	2840	2030	2,440	33.20	Fail	No	
0321	1	Day 6	Cotinine-N-Gluc	ng/mL	6850	6500	6,680	5.24	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Table 33 Incurred Sample Reproducibility Assessment for *trans*-3'-Hydroxycotinine-*O*-Glucuronide

Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0025	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	1200	1190	1,200	0.83	Pass	No	96.8
0042	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	2230	2140	2,190	4.11	Pass	No	
0053	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	2440	2750	2,600	11.92	Pass	No	
0064	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	493	452	473	8.67	Pass	No	
0067	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	721	716	719	0.70	Pass	No	
0072	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	4920	4620	4,770	6.29	Pass	No	
0072	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	2160	2190	2,180	1.38	Pass	No	
0080	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	770	717	744	7.12	Pass	No	
0118	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	3730	3840	3,790	2.90	Pass	No	
0001	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	573	561	567	2.12	Pass	No	
0008	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	2990	2980	2,990	0.33	Pass	No	
0011	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	1030	1030	1,030	0.00	Pass	No	
0016	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	3590	3610	3,600	0.56	Pass	No	
0020	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	4010	4330	4,170	7.67	Pass	No	
0021	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	546	543	545	0.55	Pass	No	
0030	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	603	601	602	0.33	Pass	No	
0030	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	430	405	418	5.98	Pass	No	
0031	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	4070	3940	4,010	3.24	Pass	No	
0034	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	599	619	609	3.28	Pass	No	
0038	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	4760	4700	4,730	1.27	Pass	No	
0039	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	3750	3500	3,630	6.89	Pass	No	
0044	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	437	412	425	5.88	Pass	No	
0057	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	508	474	491	6.92	Pass	No	
0060	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	866	853	860	1.51	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0066	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	738	716	727	3.03	Pass	No	
0069	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	534	533	534	0.19	Pass	No	
0074	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	4060	4060	4,060	0.00	Pass	No	
0083	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	2240	2250	2,250	0.44	Pass	No	
0085	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	437	377	407	14.74	Pass	No	
0106	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	592	584	588	1.36	Pass	No	
0107	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	1930	1610	1,770	18.08	Pass	No	
0110	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	1290	1430	1,360	10.29	Pass	No	
0122	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	571	547	559	4.29	Pass	No	
0129	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	2320	2190	2,260	5.75	Pass	No	
0134	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	1480	1450	1,470	2.04	Pass	No	
0136	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	3900	3860	3,880	1.03	Pass	No	
0147	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	1180	1080	1,130	8.85	Pass	No	
0153	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	1870	1820	1,850	2.70	Pass	No	
0155	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	526	512	519	2.70	Pass	No	
0162	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	3830	4170	4,000	8.50	Pass	No	
0167	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	2130	2100	2,120	1.42	Pass	No	
0170	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	745	702	724	5.94	Pass	No	
0177	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	3920	3920	3,920	0.00	Pass	No	
0181	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	7880	7490	7,690	5.07	Pass	No	
0181	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	2980	2960	2,970	0.67	Pass	No	
0189	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	815	784	800	3.88	Pass	No	
0192	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	4390	4010	4,200	9.05	Pass	No	
0195	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	1100	1020	1,060	7.55	Pass	No	
0202	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	2260	2230	2,250	1.33	Pass	No	
0202	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	2690	2620	2,660	2.63	Pass	No	
0210	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	1100	1000	1,050	9.52	Pass	No	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0220	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	612	623	618	1.78	Pass	No	
0228	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	471	489	480	3.75	Pass	No	
0232	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	857	958	908	11.12	Pass	No	
0255	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	3390	3570	3,480	5.17	Pass	No	
0156	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	5970	6070	6,020	1.66	Pass	No	
0126	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	702	691	697	1.58	Pass	No	
0139	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	408	450	429	9.79	Pass	No	
0140	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	946	961	954	1.57	Pass	No	
0148	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	4550	4640	4,600	1.96	Pass	No	
0152	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	571	621	596	8.39	Pass	No	
0160	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	4860	5160	5,010	5.99	Pass	No	
0187	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	1110	1040	1,080	6.48	Pass	No	
0191	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	1510	1390	1,450	8.28	Pass	No	
0198	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	4620	4430	4,530	4.19	Pass	No	
0198	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	5220	4850	5,040	7.34	Pass	No	
0200	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	849	819	834	3.60	Pass	No	
0204	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	465	442	454	5.07	Pass	No	
0229	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	622	685	654	9.63	Pass	No	
0230	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	521	497	509	4.72	Pass	No	
0262	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	886	825	856	7.13	Pass	No	
0278	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	2030	1650	1,840	20.65	Fail	No	
0283	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	499	495	497	0.80	Pass	No	
0313	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	494	491	493	0.61	Pass	No	
0315	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	484	464	474	4.22	Pass	No	
0322	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	498	513	506	2.96	Pass	No	
0322	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	590	507	549	15.12	Pass	No	
0328	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	434	434	434	0.00	Pass	No	





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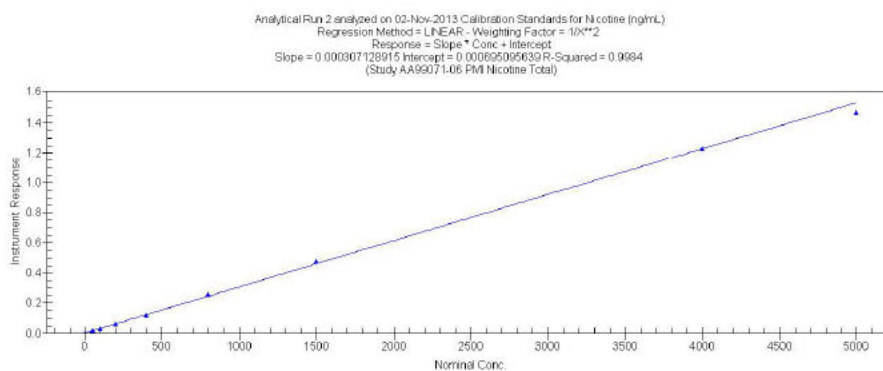
Subject	Period	Time Point	Analyte	Units	Original Value	Reassay Value	Mean Value	% Difference	Reproducible?	Event?	% of Passing ISR Samples
0264	1	Day 2	Trans-3-Hydroxy-O-Gluc	ng/mL	473	386	430	20.23	Fail	No	
0272	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	6380	6070	6,230	4.98	Pass	No	
0276	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	551	500	526	9.70	Pass	No	
0277	1	Day 0	Trans-3-Hydroxy-O-Gluc	ng/mL	2000	1890	1,950	5.64	Pass	No	
0281	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	2090	1930	2,010	7.96	Pass	No	
0282	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	864	840	852	2.82	Pass	No	
0287	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	2320	2100	2,210	9.95	Pass	No	
0296	1	Day 3	Trans-3-Hydroxy-O-Gluc	ng/mL	1960	1860	1,910	5.24	Pass	No	
0296	1	Day 5	Trans-3-Hydroxy-O-Gluc	ng/mL	1860	1840	1,850	1.08	Pass	No	
0301	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	1660	1570	1,620	5.56	Pass	No	
0307	1	Day 4	Trans-3-Hydroxy-O-Gluc	ng/mL	1630	1700	1,670	4.19	Pass	No	
0308	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	1460	1360	1,410	7.09	Pass	No	
0320	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	2520	2550	2,540	1.18	Pass	No	
0321	1	Day 1	Trans-3-Hydroxy-O-Gluc	ng/mL	467	306	387	41.60	Fail	No	
0321	1	Day 6	Trans-3-Hydroxy-O-Gluc	ng/mL	903	888	896	1.67	Pass	No	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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## FIGURES

Figure 1 Calibration Curve for Nicotine in Control Matrix, Watson Run ID 2<sup>1</sup>

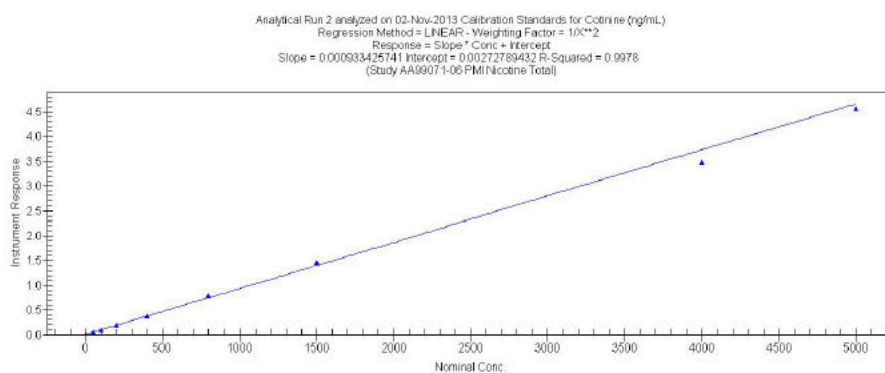


<sup>1</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Figure 2 Calibration Curve for Cotinine in Control Matrix, Watson Run ID 2<sup>2</sup>

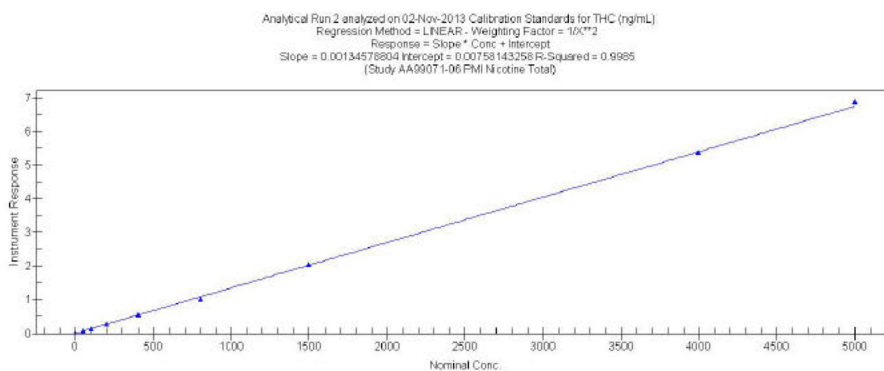


<sup>2</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Figure 3 Calibration Curve for *trans*-3'-Hydroxycotinine in Control Matrix, Watson Run ID 2<sup>3</sup>



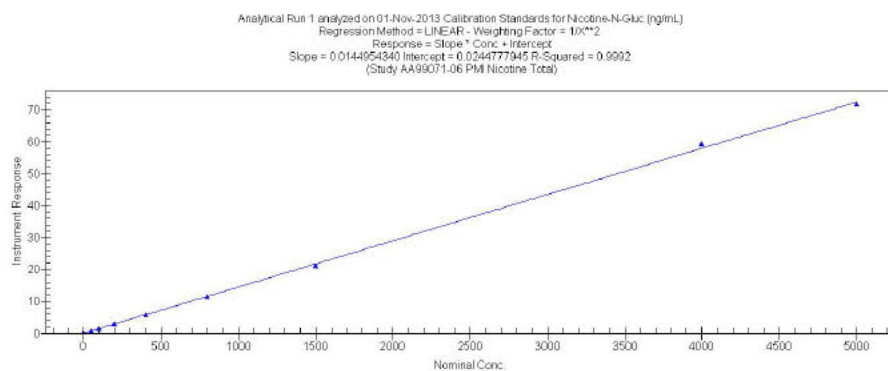
<sup>3</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Figure 4 Calibration Curve for Nicotine-*N*-Glucuronide in Control Matrix, Watson Run ID 1<sup>4</sup>

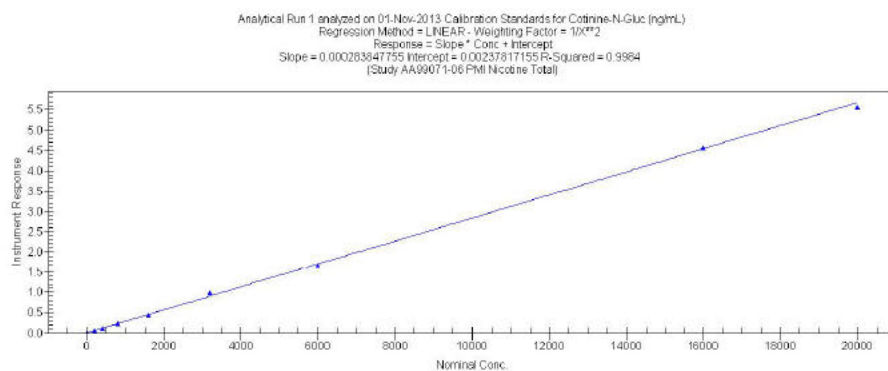


<sup>4</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Figure 5 Calibration Curve for Cotinine-*N*-Glucuronide in Control Matrix, Watson Run ID 1<sup>5</sup>

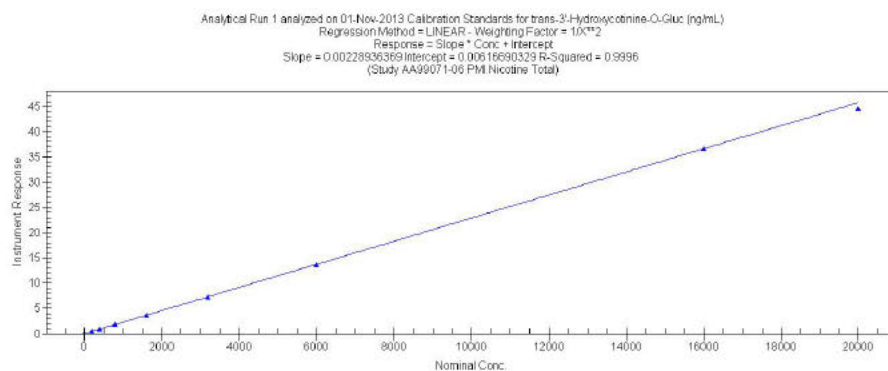


<sup>5</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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Figure 6 Calibration Curve for *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Control Matrix, Watson Run ID 1<sup>6</sup>



<sup>6</sup> Note: Though included on the figure above, the Standard 0 (blank sample extracted with internal standard) was not used as a standard to calculate the calibration curve parameters.



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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## ATTACHMENTS

Attachment 1 General List of Abbreviations used at Celerion

Abbreviations are used in this document as applicable.

Abbreviation	Description
°C	Degree Celsius (centigrade)
µg	Microgram
AAR	Above the acceptable range
AB	Applied Biosystems
API	Atmospheric pressure ionization
ASCII	American standard code for information interchange
BAM	Bioanalytical method
BLK	Blank
BLQ	Below limit of quantification
CC	Conventional Cigarette
CDER	Center for Drug Evaluation and Research
CFR	Code of Federal Regulations
CRO	Contract research organisation
CV	Coefficient of variation
Da	Dalton
DCU	Diluted concentration unreliable
DFNR	Dilution factor not reliable
DQC	Dilution quality control sample
ELISA	Enzyme-linked immunosorbent assay
EDTA	Ethylenediaminetetraacetic acid
EQB	Exceeding quadratic bounds
EXT	Extraction
fg	Femtogram
g	Gram
GLP	Good laboratory practices
h	Hour
HDPE	High density polyethylene
HPLC	High performance liquid chromatography





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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Abbreviation	Description
HSR	High standard removed
ID	Identifier
INC	Incongruous
INS	Instrumentation
IS	Internal standard
ISA	Insufficient volume for full analysis
ISP	Incomplete sample processing
ISR	Incurred sample reproducibility
ISV	Insufficient volume
IVR	Insufficient volume to reassay
L	Litre, liter
LLOQ	Lower limit of quantitation
LNK	Celerion, Lincoln site
M	Molar
mg	Milligram
mL	Millilitre, milliliter
mol	Mole
MS	Mass spectrometry
MW	Molecular weight
n	Number of data points
N/AP	Not applicable
N/AV	Not available
NFV	Not full volume
ng	Nanogram
No	Number
NU	Not used
OECD	Organization for Economic Cooperation and Development
PD	Period
pg	Picogram
QC	Quality control
QCs	Quality control samples
R E	Relative error



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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Abbreviation	Description
REF	Reference
RI	Reinjection
RIA	Rarioimmunoassay
RT	Room temperature
RR	Reanalysis
RVL	Remaining volume low
S A	Smoking Abstinence
S D	Standard deviation
SOP	Standard operating procedure
SPE	Solid-phase extraction
SST	System suitability test
STD	Standard
Sub	Subject
SVD	Sample volume depleted
TBD	To be determined
Temp	Temperature
THS	Tobacco Heating System
UCR	Unacceptable chromatography
UISR	Unacceptable internal standard response
ULOQ	Upper limit of quantitation
U S FDA	United States Food and Drug Administration
USP	US pharmacopeia
$\bar{x}$	Mean



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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#### Attachment 2 Temperature Definitions at Celerion

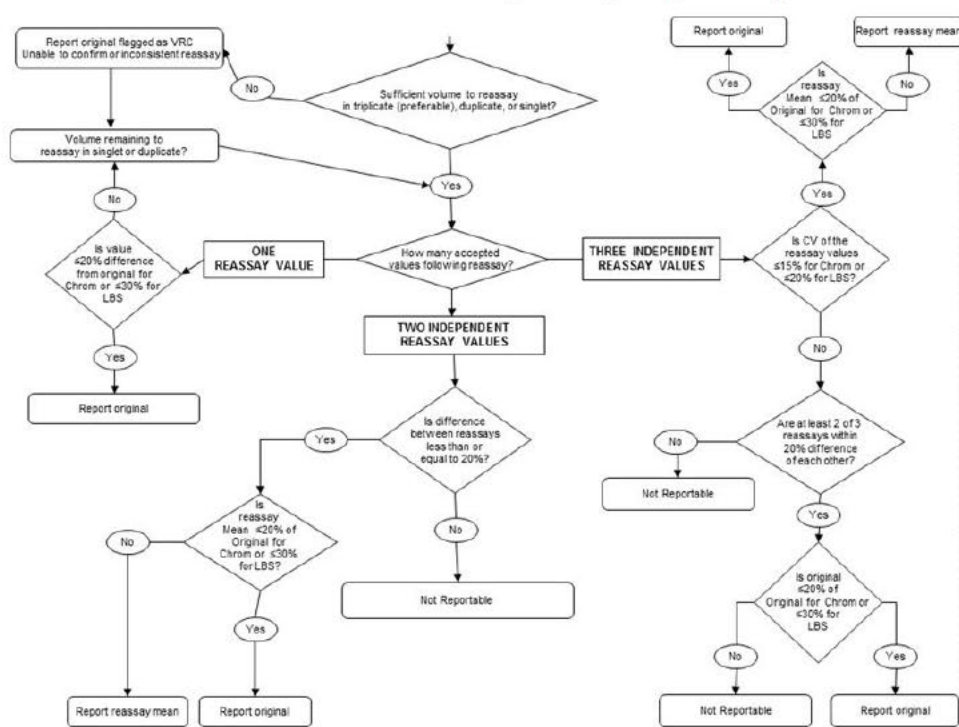
Values for temperatures are nominal temperatures representing the following temperature ranges:

Nominal temperature	Temperature Range
-80 C	-65 C to -90 C
-20 C	-10 C to -30 C
5 C	2 C to 8 C
Room temperature	15 C to 25 C
24 C	22 C to 26 C



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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### Attachment 3 Procedure for VRC and SSR Reassays and Reporting of Reassay Results



To compare reassays:

$$\frac{|\text{Re assay Value 1} - \text{Re assay Value 2}|}{\text{Mean of Re assay Value 1 and 2}} * 100\%$$

To compare to original:

$$\frac{|\text{Mean of Re assays} - \text{Original Value}|}{\text{Original Value}} * 100\%$$

An LC-MS/MS value as outlined in the decision tree is obtained from a single determination

If BLQ is obtained for a value, the nominal concentration of the LLOQ is used when comparing reassays in this decision tree.





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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#### Attachment 4 General List of Calculation Formulae

**Mean:** 
$$\bar{x}_{\text{Mean}} = \frac{1}{n} \sum_{i=1}^n x_i$$

**Standard Deviation (SD):** 
$$SD = \sqrt{\frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x}_{\text{Mean}})^2}$$

**Precision (RSD, CV):** 
$$CV \% = \left( \frac{SD}{\bar{x}_{\text{Mean}}} \right) * 100$$

**Accuracy (% Theoretical):** 
$$\text{Accuracy \%} = \left( \frac{x}{x_{\text{Nominal}}} \right) * 100$$

$$\text{Accuracy of Mean \%} = \left( \frac{\bar{x}_{\text{Mean}}}{x_{\text{Nominal}}} \right) * 100$$

**Inaccuracy (% Bias, % RE):** 
$$\text{Bias \%} = \left( \frac{(x - x_{\text{Nominal}})}{x_{\text{Nominal}}} \right) * 100$$

$$\text{Bias of Mean \%} = \left( \frac{(\bar{x}_{\text{Mean}} - x_{\text{Nominal}})}{x_{\text{Nominal}}} \right) * 100$$

$x$  = value (e.g. analyte concentration, OD value, cpm value, peak signal)

$n$  = number of values

$$\text{Potency} = \frac{100 - \left( \frac{\% \text{ Salts}}{\text{Determined}} + \frac{\% \text{ Water}}{\text{By Assay}} + \frac{\% \text{ Residual}}{\text{Content}} + \frac{\% \text{ Other}}{\text{Solvent}} + \frac{\% \text{ Impurity}}{\text{Other}} \right)}{100} * \frac{\% \text{ Chromatographic Purity}}{100} * \frac{\% \text{ Chiral Purity}}{100} * \frac{\% \text{ Isotopic Purity}}{100} * \frac{\% \text{ Other Purity}}{100} * \frac{\text{MW Free Base}}{\text{MW Salt}}$$

$$\% \text{ Difference} = \left[ \frac{\left| \frac{(\text{Re assay} - \text{Original})}{2} \right|}{\left( \frac{(\text{Re assay} + \text{Original})}{2} \right)} \right] * 100$$



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
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## Attachment 5 Reassay Descriptions

Analytical Reason (Code)	Description
Above the Accepted Range (AAR)	Identifies a study sample whose calculated concentration is greater than the upper limit of quantitation (ULOQ). This study sample will be diluted before being reassayed.
Diluted Concentration Unreliable (DCU)	Identifies a study sample that has been diluted and determined to have a concentration below LLOQ (BLQ, below limit of quantification) before correction for the final dilution factor.
Dilution Factor Not Reliable (DFNR)	Identifies a study sample that has been diluted, and determined to have a measurable concentration, however >50% of the dilution QC samples (having the same dilution factor) did not meet their acceptance criteria.  Identifies a dilution QC sample that does not fulfil the acceptance criterion and is excluded from the DQC statistics.
Highest / Lowest Standard Removed (HSR / LSR)	If the working range of the method is truncated as a result of  - the ULOQ calibration standard being rejected or unavailable (e.g. incomplete sample processing or incomplete instrument analysis, unacceptable chromatography), all study samples with concentrations greater than the highest acceptable standard are identified as 'highest standard removed' (HSR).  - the calibration standard at the LLOQ being rejected or unavailable (e.g. incomplete sample processing or incomplete instrument analysis, unacceptable chromatography), all study samples with concentrations below the lowest acceptable standard are identified as 'lowest standard removed' (LSR).
Incomplete Sample Processing (ISP)	Identifies a study sample, calibration standard, or QC sample for which data could not be obtained due to processing problems that occurred during the extraction or assay documented by the analyst prior to instrumental analysis.
Insufficient Volume for Reassay (IVR)	Identified a study sample that has insufficient sample volume for reanalysis (including all received splits)
Incomplete Instrument Analysis (IIA)	Identifies a study sample, calibration standard, or QC sample for which data could not be obtained due to processing problems that occurred during HPLC injection or instrumental analysis and were documented by the analyst.
Unacceptable Chromatography (UCR)	Identifies a study sample, calibration standard, or QC sample judged to demonstrate unacceptable chromatography according to the applicable Celerion procedures (e.g. split peak, poor peak symmetry, unseparated interference).



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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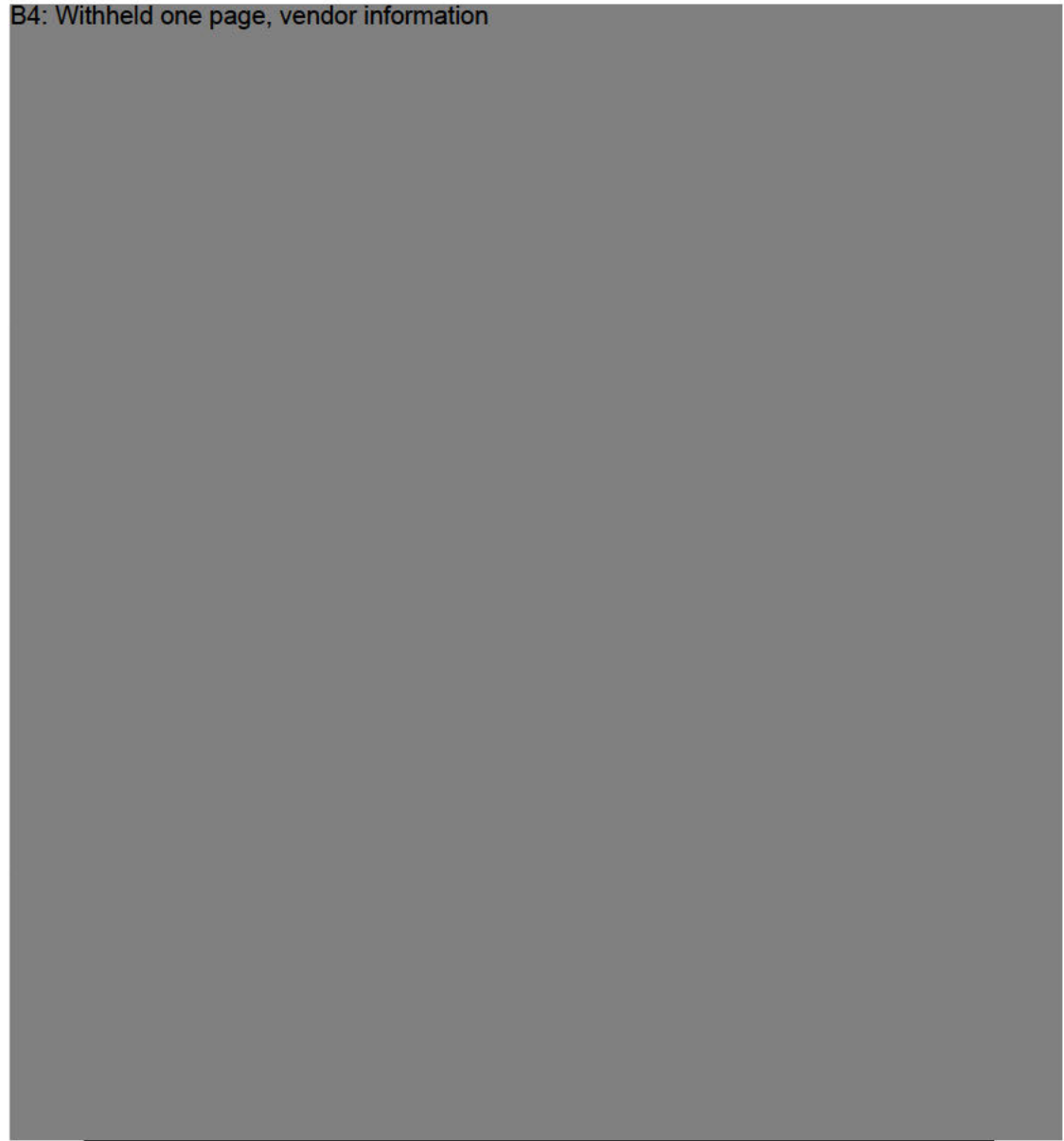
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Attachment 6 Certificates of Analysis



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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Celerion Study AA99071-06

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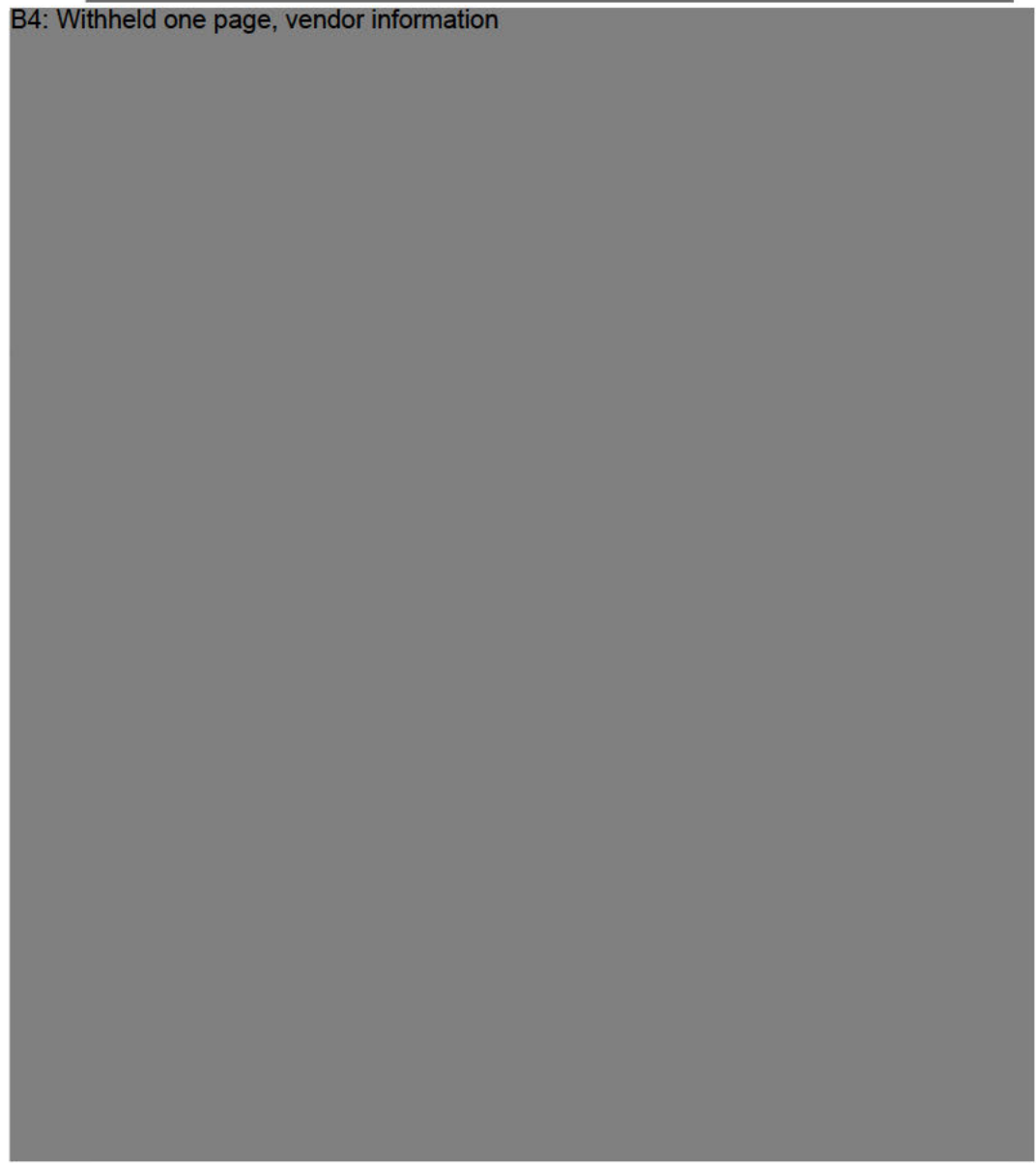






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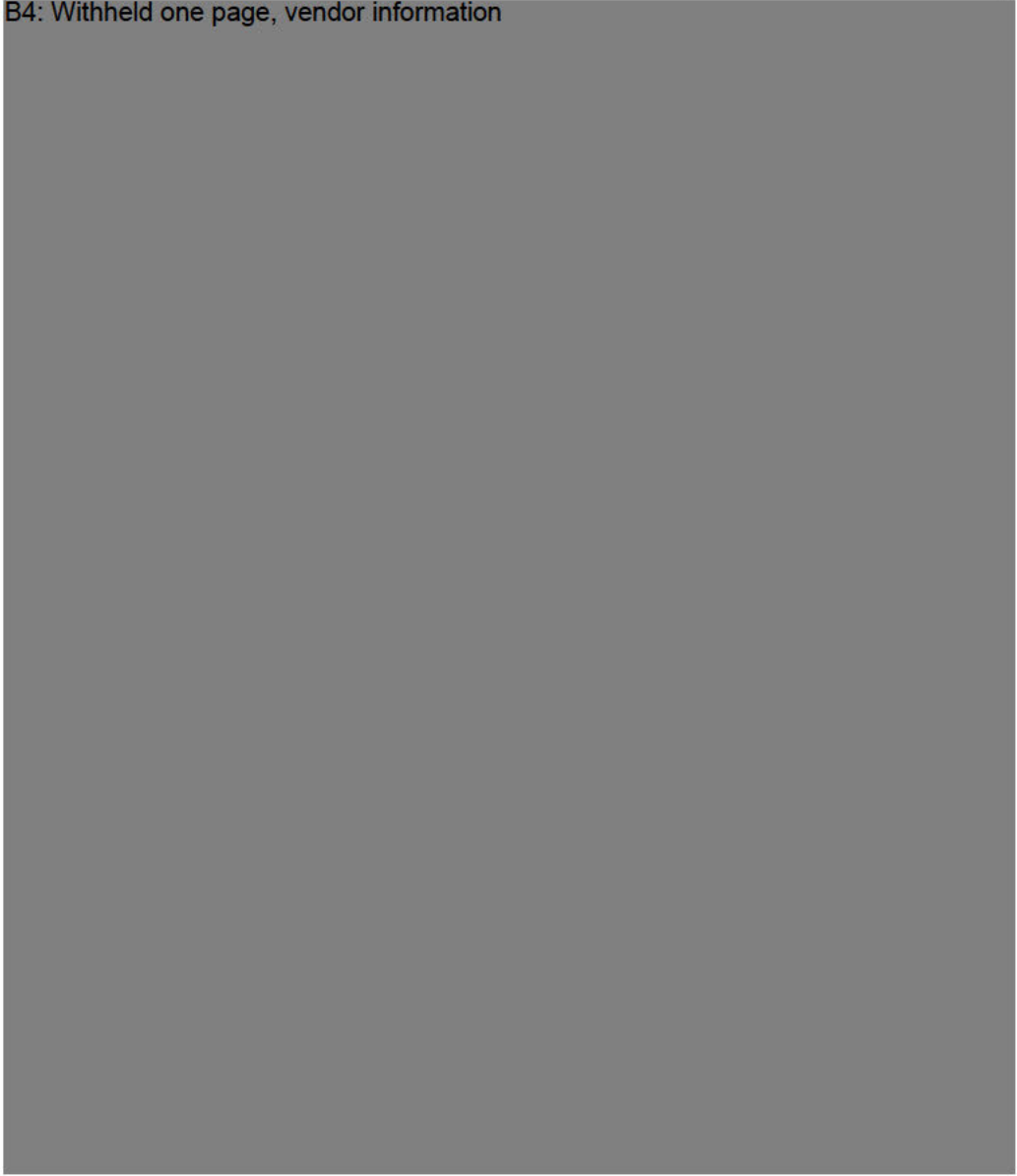
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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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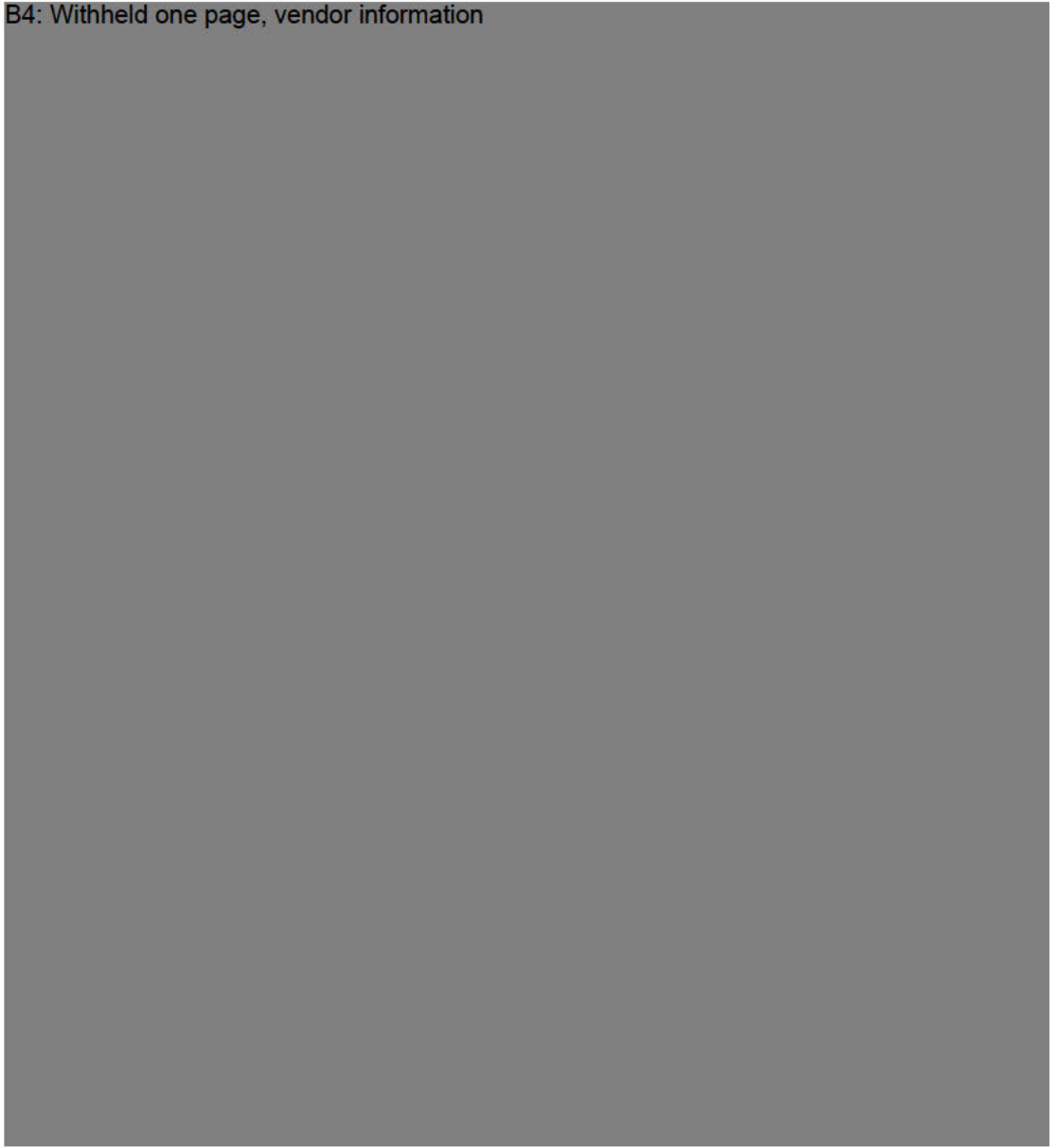






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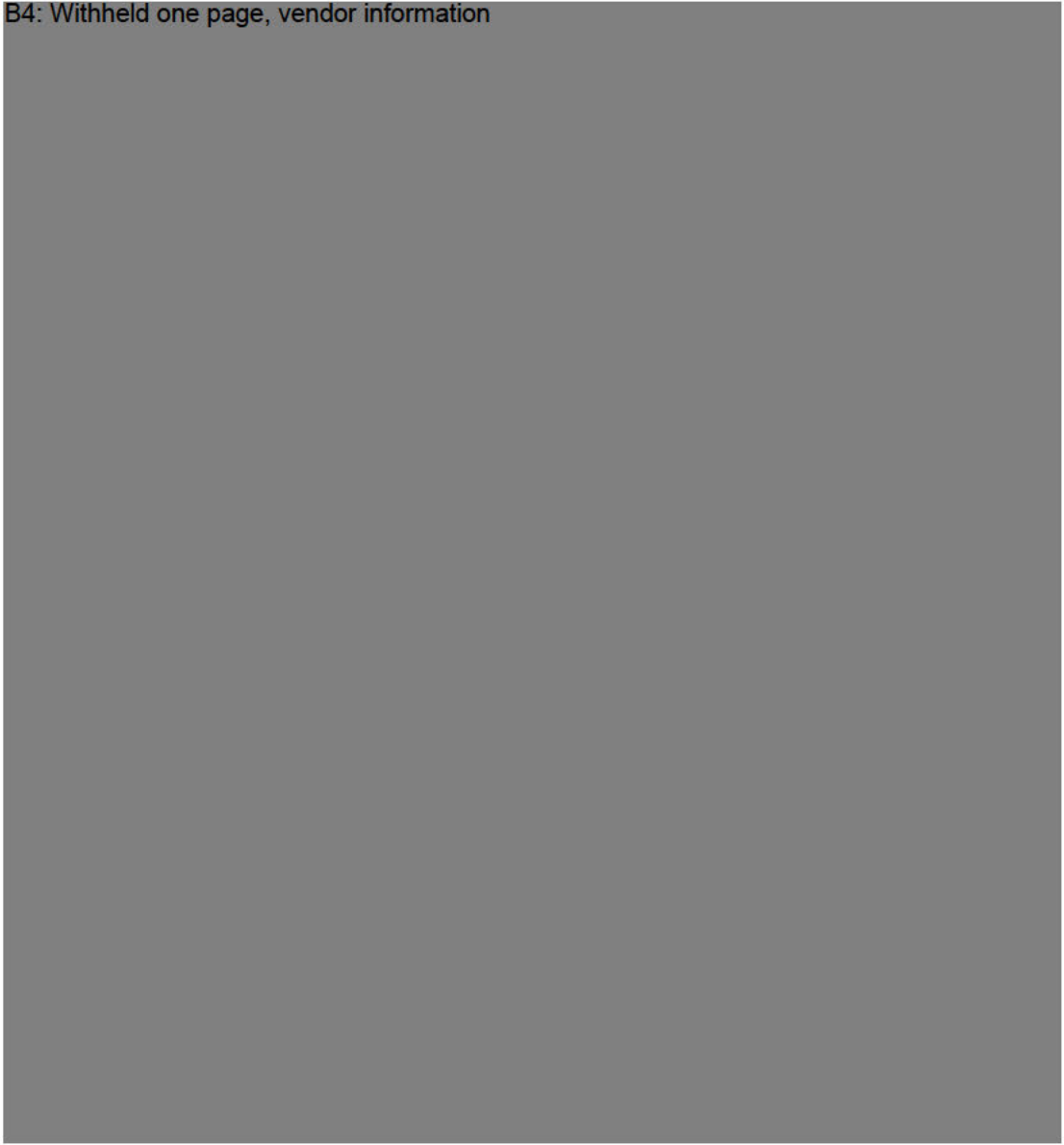
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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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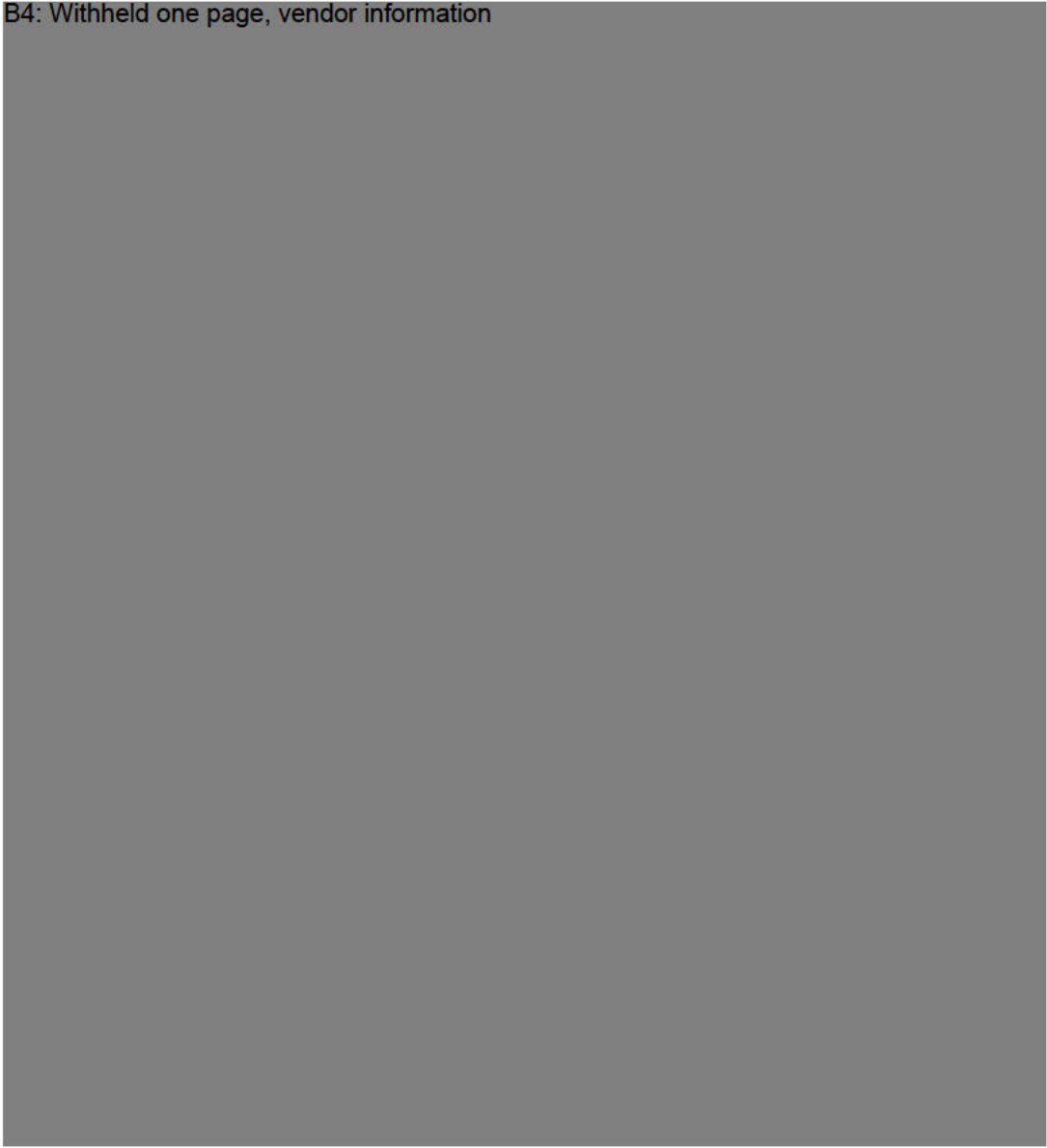
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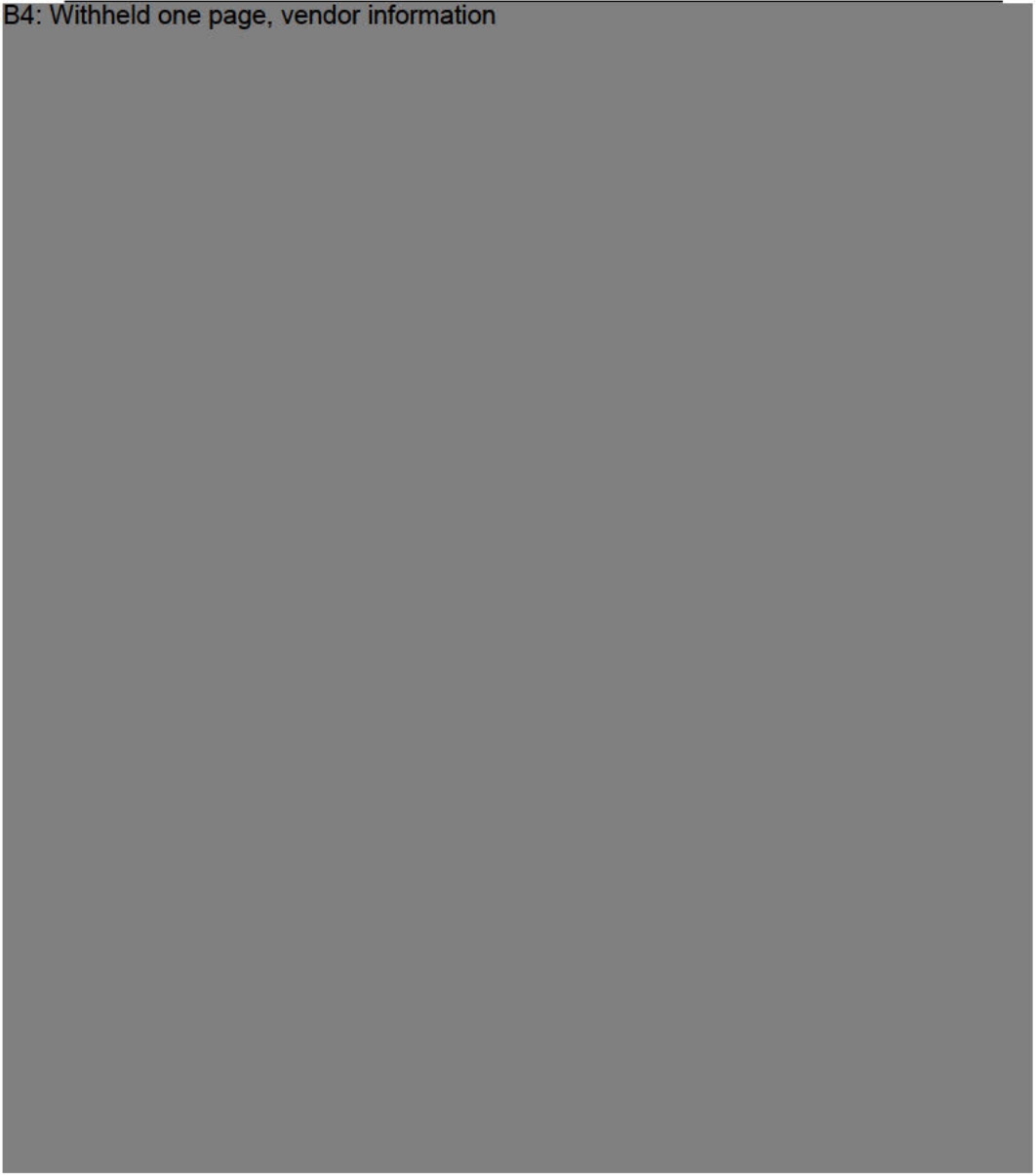
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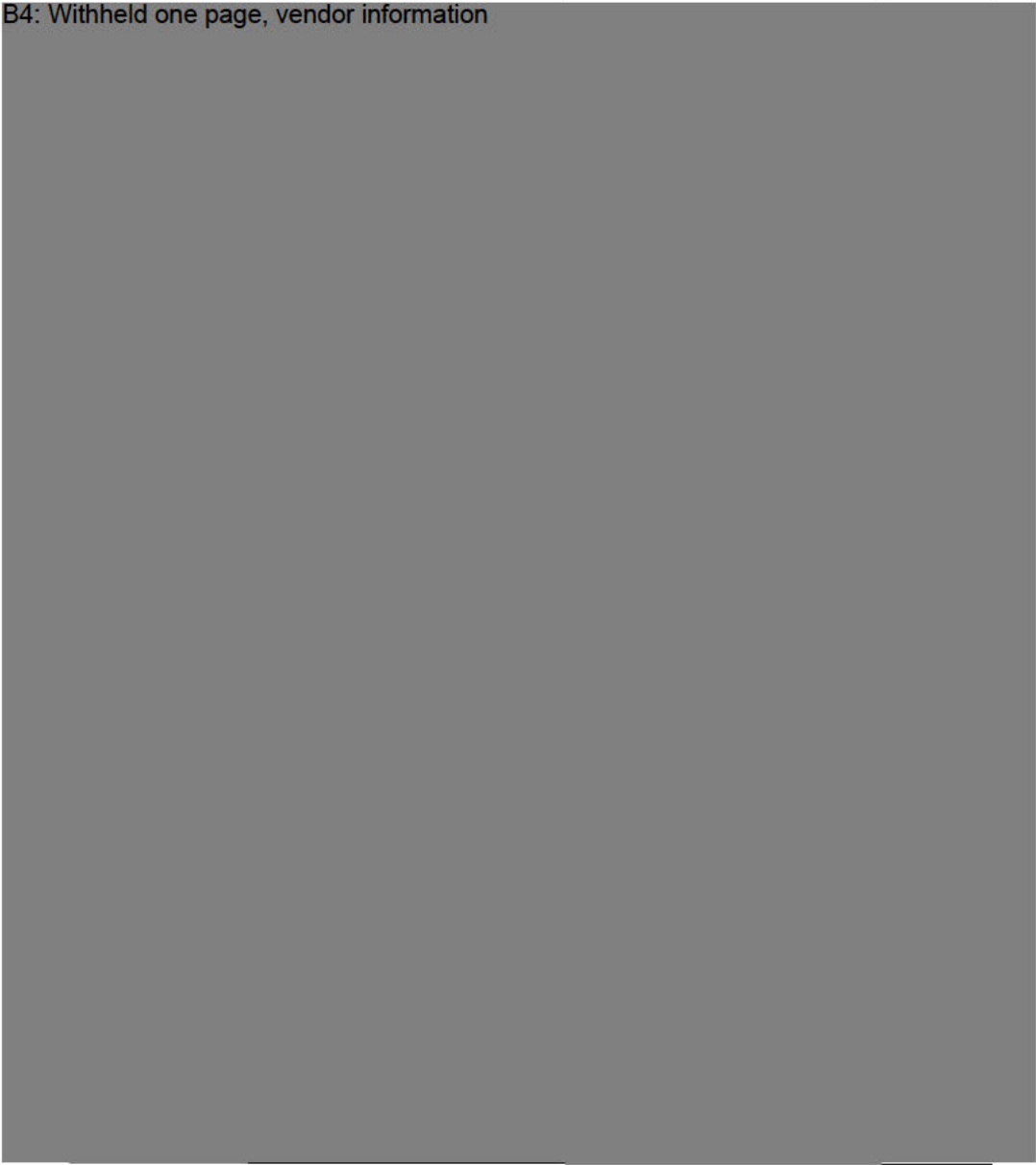






Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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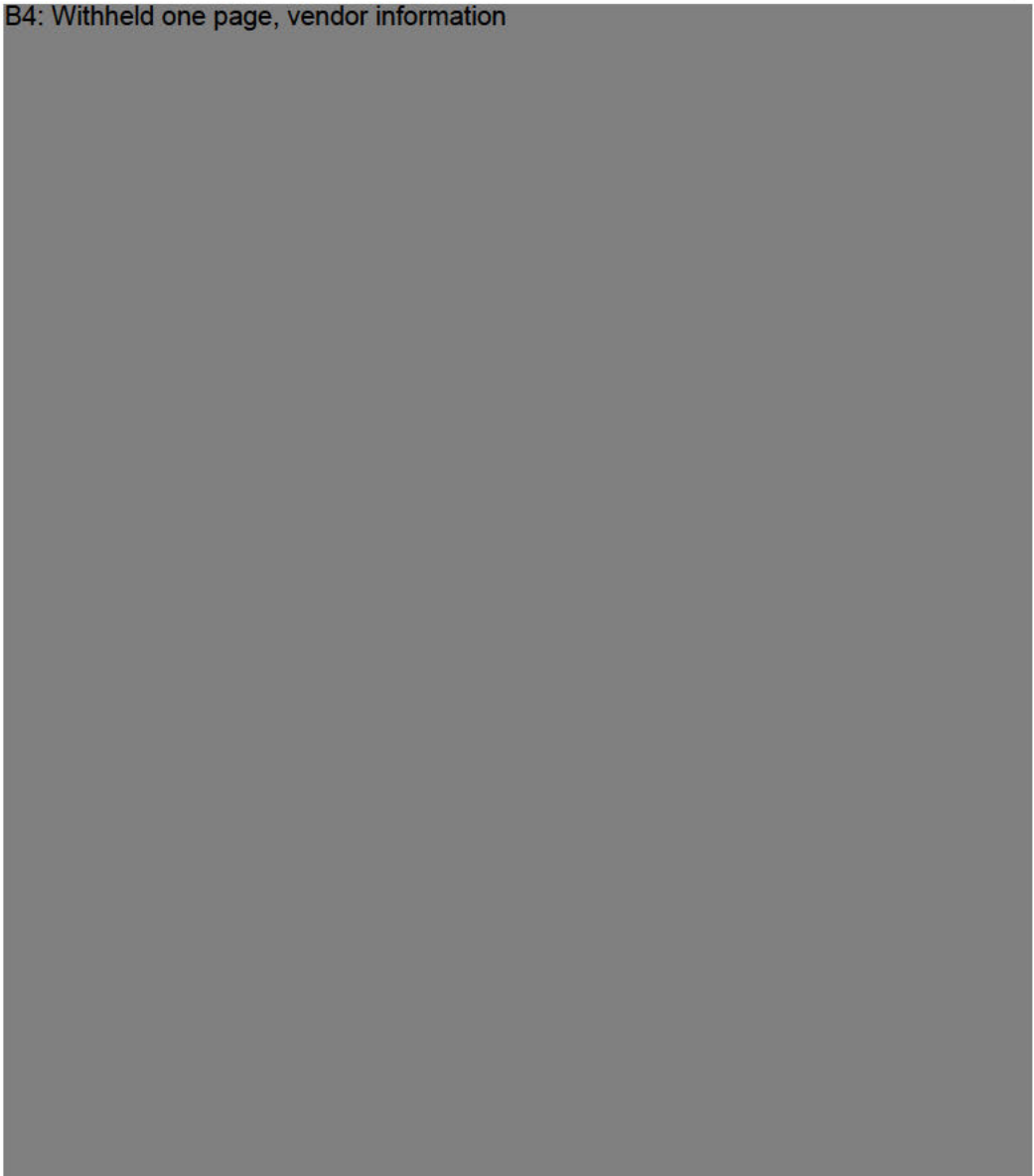






Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
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in Human Urine  
Celerion Study AA99071-06

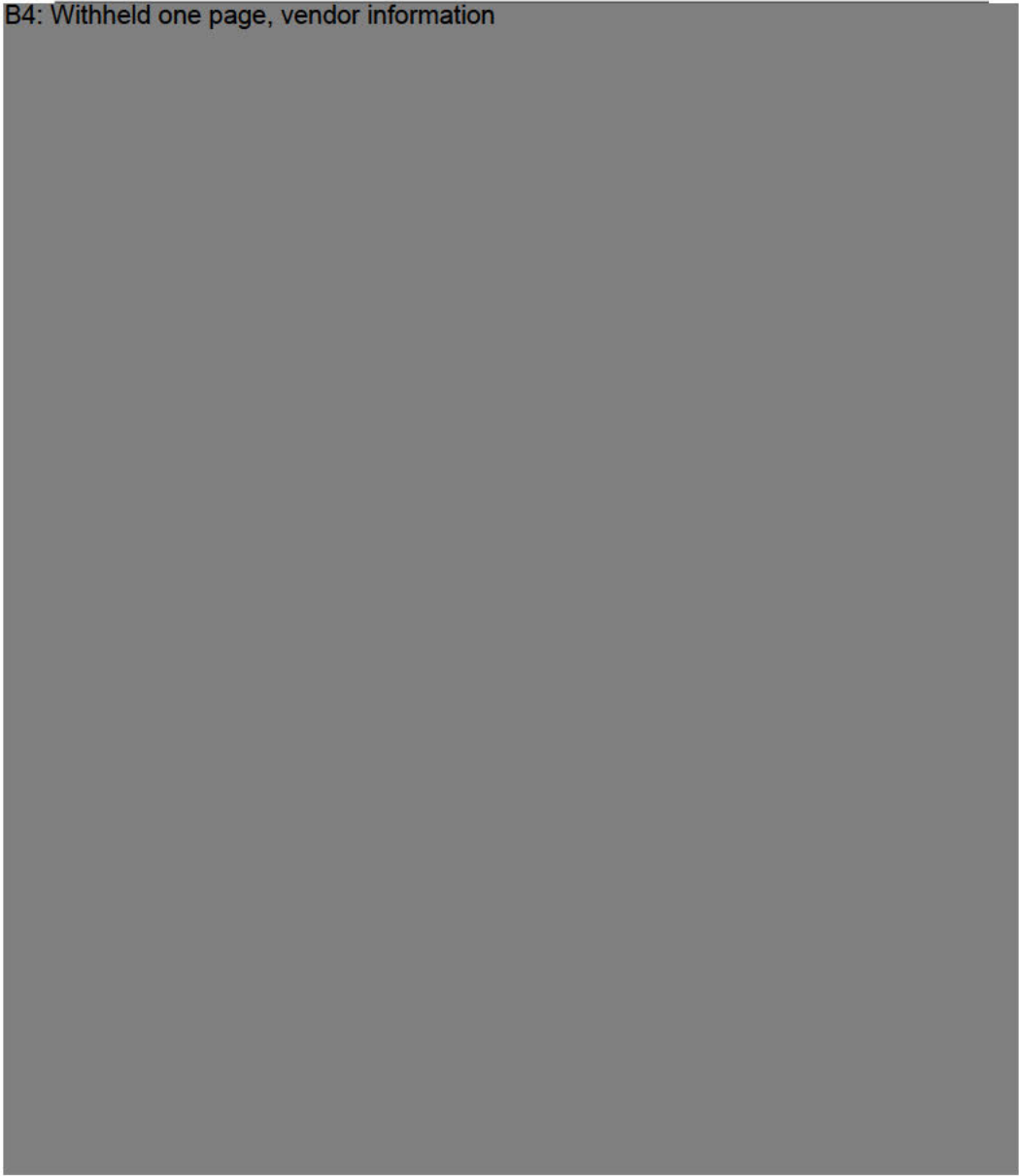
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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

B4: Withheld one page, vendor information


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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06


B4: Withheld one page, vendor information





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

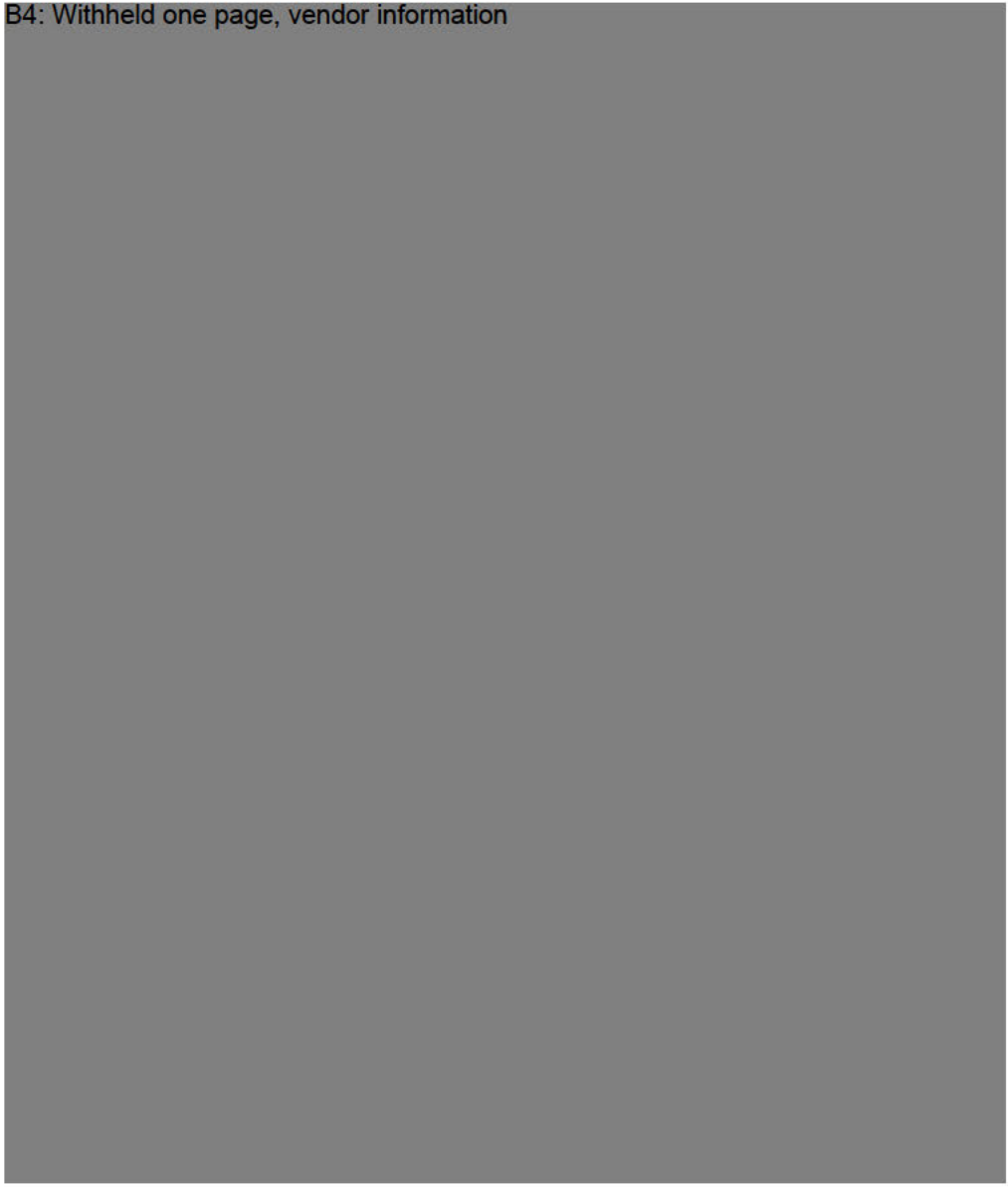
B4: Withheld one page, vendor information





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06


B4: Withheld one page, vendor information





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

B4: Withheld one page, vendor information

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Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

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#### Attachment 7 Bioanalytical Method Summary



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 - CR204A2

Version N°: 2.0

Page 1 of 2

<b>Biomarker:</b> Nicotine		<b>Matrix:</b> Urine	
<b>MVR/SOP no. &amp; date:</b> ZZ33881-04 / 30-Oct-2014		<b>CRO/Laboratory:</b> Celerion-Lincoln	
<b>LLOQ:</b> 50.0 ng/mL		<b>ULOQ:</b> 5000 ng/mL	
<b>Validation</b>	<input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross		
	Comments (required for Partial/Cross):		
<b>Assay:</b>	<input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe:		
	<input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS		
	<input type="checkbox"/> ELISA		
<b>Equipment and short description of extraction and analysis:</b> An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000 <sup>TM</sup> triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.			
<b>Selectivity/Sensitivity/Matrix effect:</b>		No significant matrix effect was observed in 9 of the 10 human urine lots that were fortified with nicotine at the concentration of the LLOQ (50.0 ng/mL) or in any of the 10 human urine lots that were fortified with nicotine at the concentration of the high QC (3750 ng/mL) samples	
<b>Accuracy:</b>		Intra-batch: -13.3 to 13.0% R.E. Inter-batch: -2.2 to 1.2% R.E.	
<b>Precision:</b>		Intra-batch: 1.1 to 9.9% CV Inter-batch: 5.1 to 9.4% CV	
<b>Recovery:</b>		100% recovery at 150 ng/mL in human urine 106% recovery at 500 ng/mL in human urine 101% recovery at 3750 ng/mL in human urine	
<b>Freeze and thaw stability:</b>		6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light	
<b>Short-term temperature stability:</b>		Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)	
<b>Long-term stability:</b>		476 days in polypropylene tubes at -20°C	
<b>Stock solution stability:</b>		40 days at 100 µg/mL in water in a polypropylene container at -20°C	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 – CR204A2

Version N°: 2.0

Page 2 of 2

<b>Post-preparative stability:</b>	229 hours in a polypropylene 96 well plate at 5°C	
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light	
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"	
<b>BMS completed by:</b>		
<b>Name:</b> Erica Nachi	<b>Date:</b> 31-Oct-2014	<b>Signature:</b> Erica J Nachi



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



PMI RESEARCH &amp; DEVELOPMENT

## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 -- CR204A2

Version N°: 2.0

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Biomarker: Cotinine		Matrix: Urine	
MVR/SOP no. & date: ZZ33861-04 / 30-Oct-2014		CRO/Laboratory: Celerion-Lincoln	
LLOQ: 50.0 ng/mL		ULOQ: 5000 ng/mL	
Validation	<input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross Comments (required for Partial/Cross):		
Assay:	<input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe: <input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS <input type="checkbox"/> ELISA		
Equipment and short description of extraction and analysis: An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000™ triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.			
Selectivity/Sensitivity/Matrix effect:		No significant matrix effect was observed in any of the 10 human urine lots that were fortified with cotinine at the concentration of the LLOQ (50.0 ng/mL) or in any of the 10 human urine lots that were fortified with cotinine at the concentration of the high QC (3750 ng/mL) samples	
Accuracy:		Intra-batch: -10.4 to 12.8% R.E. Inter-batch: -2.4 to 1.8% R.E.	
Precision:		Intra-batch: 1.8 to 5.8% CV Inter-batch: 4.3 to 8.4% CV	
Recovery:		120% recovery at 150 ng/mL in human urine 114% recovery at 500 ng/mL in human urine 109% recovery at 3750 ng/mL in human urine	
Freeze and thaw stability:		6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light	
Short-term temperature stability:		Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)	
Long-term stability:		476 days in polypropylene tubes at -20°C	
Stock solution stability:		40 days at 100 µg/mL in water in a polypropylene container at -20°C	





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



PMI RESEARCH &amp; DEVELOPMENT

## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOP\_QM000496 – CR204A2

Version N°: 2.0

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<b>Post-preparative stability:</b>	229 hours in a polypropylene 96 well plate at 5°C
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"
<b>BMS completed by:</b>	
<b>Name:</b>	<b>Date:</b>
Erica Nach.	31-Oct-2014
<b>Signature:</b>	
Erica J Nach.	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FDR\_OM000496 – CR204A2

Version N°: 2.0

Page 1 of 2

<b>Biomarker:</b> <i>trans</i> -3'-hydroxycotinine	<b>Matrix:</b> Urine
<b>MVR/SOP no. &amp; date:</b> ZZ33881-04 / 30-Oct-2014	<b>CRO/Laboratory:</b> Celerion-Lincoln
<b>LLOQ:</b> 50.0 ng/mL	<b>ULOQ:</b> 5000 ng/mL
<b>Validation</b> <input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross <b>Comments (required for Partial/Cross):</b>	
<b>Assay:</b> <input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe: <input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS <input type="checkbox"/> ELISA	
<b>Equipment and short description of extraction and analysis:</b> An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000™ triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.	
<b>Selectivity/Sensitivity/Matrix effect:</b>	No significant matrix effect was observed in any of the 10 human urine lots that were fortified with <i>trans</i> -3'-hydroxycotinine at the concentration of the LLOQ (50.0 ng/mL) or in any of the 10 human urine lots that were fortified with <i>trans</i> -3'-hydroxycotinine at the concentration of the high QC (3750 ng/mL) samples
<b>Accuracy:</b>	Intra-batch: -12.3 to 5.4% R.E. Inter-batch: -2.4 to 0.0% R.E.
<b>Precision:</b>	Intra-batch: 1.3 to 7.5% CV Inter-batch: 3.2 to 6.9% CV
<b>Recovery:</b>	49% recovery at 150 ng/mL in human urine 53% recovery at 500 ng/mL in human urine 53% recovery at 3750 ng/mL in human urine
<b>Freeze and thaw stability:</b>	6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
<b>Short-term temperature stability:</b>	Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
<b>Long-term stability:</b>	476 days in polypropylene tubes at -20°C
<b>Stock solution stability:</b>	41 days at approximately 1000 µg/mL in water in a polypropylene container at -20°C



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FORL\_QM000498 – CR204A2

Version N°: 2.0

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<b>Post-preparative stability:</b>	229 hours in a polypropylene 96 well plate at 5°C
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"
<b>BMS completed by:</b>	
<b>Name:</b> Erica Nach.	<b>Date:</b> 31-Oct-2014
<b>Signature:</b> 	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FORL\_QM000496 – CR204A2

Version N°: 2.0

Page 1 of 2

<b>Biomarker:</b> Nicotine- <i>N</i> -Glucuronide		<b>Matrix:</b> Urine	
<b>MVR/SOP no. &amp; date:</b> ZZ33881-04 / 30-Oct-2014		<b>CRO/Laboratory:</b> Celerion-Lincoln	
<b>LLOQ:</b> 50.0 ng/mL		<b>ULOQ:</b> 5000 ng/mL	
<b>Validation</b>	<input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross Comments (required for Partial/Cross):		
<b>Assay:</b>	<input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe: <input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS <input type="checkbox"/> ELISA		
<b>Equipment and short description of extraction and analysis:</b> An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000™ triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.			
<b>Selectivity/Sensitivity/Matrix effect:</b>	No significant matrix effect was observed in any of the 10 human urine lots that were fortified with nicotine- <i>N</i> -glucuronide at the concentration of the LLOQ (50.0 ng/mL) or in any of the 10 human urine lots that were fortified with nicotine- <i>N</i> -glucuronide at the concentration of the high QC (3750 ng/mL) samples		
<b>Accuracy:</b>	Intra-batch: -3.6 to 3.8% R.E. Inter-batch: -1.9 to 1.4% R.E.		
<b>Precision:</b>	Intra-batch: 1.0 to 7.6% CV Inter-batch: 3.3 to 5.8% CV		
<b>Recovery:</b>	48% recovery at 150 ng/mL in human urine 51% recovery at 500 ng/mL in human urine 51% recovery at 3750 ng/mL in human urine		
<b>Freeze and thaw stability:</b>	6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light		
<b>Short-term temperature stability:</b>	Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)		
<b>Long-term stability:</b>	476 days in polypropylene tubes at -20°C		
<b>Stock solution stability:</b>	503 days at approximately 1000 µg/mL in water in a polypropylene container at -20°C		





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 - CR204A2

Version N°: 2.0

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<b>Post-preparative stability:</b>	302 hours in a polypropylene 96 well plate at 5°C
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"
<b>BMS completed by:</b>	
<b>Name:</b> Erica Nachi	<b>Date:</b> 31-Oct-2014
<b>Signature:</b> 	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM00496 – CR204A2

Version N°: 2.0

Page 1 of 2

Biomarker: Cotinine- <i>N</i> -Glucuronide	Matrix: Urine
MVR/SOP no. & date: ZZ33881-04 / 30-Oct-2014	CRO/Laboratory: Celerion-Lincoln
LLOQ: 200 ng/mL	ULOQ: 20,000 ng/mL
Validation	<input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross Comments (required for Partial/Cross):
Assay:	<input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe: <input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS <input type="checkbox"/> ELISA
Equipment and short description of extraction and analysis: An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000 <sup>III</sup> triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.	

<b>Selectivity/Sensitivity/Matrix effect:</b>	No significant matrix effect was observed in any of the 10 human urine lots that were fortified with cotinine- <i>N</i> -glucuronide at the concentration of the LLOQ (200 ng/mL) or in any of the 10 human urine lots that were fortified with cotinine- <i>N</i> -glucuronide at the concentration of the high QC (15,000 ng/mL) samples
<b>Accuracy:</b>	Intra-batch: -11.5 to 3.7% R.E. Inter-batch: -4.0 to 1.2% R.E.
<b>Precision:</b>	Intra-batch: 1.2 to 9.8% CV Inter-batch: 4.0 to 8.1% CV
<b>Recovery:</b>	44% recovery at 600 ng/mL in human urine 49% recovery at 2000 ng/mL in human urine 52% recovery at 15,000 ng/mL in human urine
<b>Freeze and thaw stability:</b>	6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
<b>Short-term temperature stability:</b>	Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
<b>Long-term stability:</b>	476 days in polypropylene tubes at -20°C
<b>Stock solution stability:</b>	318 days at approximately 2000 µg/mL in water in a polypropylene container at -20°C



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 - CR204A2

Version N°: 2.0

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<b>Post-preparative stability:</b>	302 hours in a polypropylene 96 well plate at 5°C
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"
<b>BMS completed by:</b>	
<b>Name:</b> Erica Nachi	<b>Date:</b> 31-Oct-2014
<b>Signature:</b> Erica J Nachi	



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FOR\_QM000496 - CR204A2

Version N°: 2.0

Page 1 of 2

<b>Biomarker:</b> <i>trans</i> -3'-hydroxycotinine- <i>O</i> -Glucuronide	<b>Matrix:</b> Urine
<b>MVR/SOP no. &amp; date:</b> ZZ33881-04 / 30-Oct-2014	<b>CRO/Laboratory:</b> Celerion-Lincoln
<b>LLOQ:</b> 200 ng/mL	<b>ULOQ:</b> 20,000 ng/mL
<b>Validation</b>	<input checked="" type="checkbox"/> Full <input type="checkbox"/> Partial <input type="checkbox"/> Cross Comments (required for Partial/Cross):
<b>Assay:</b>	<input checked="" type="checkbox"/> Chromatographic <input type="checkbox"/> Ligand binding <input type="checkbox"/> Enzymatic <input type="checkbox"/> Other describe: <input type="checkbox"/> LC/MS <input checked="" type="checkbox"/> LC/MS/MS <input type="checkbox"/> GC/MS <input type="checkbox"/> GC/MS/MS <input type="checkbox"/> ELISA
<b>Equipment and short description of extraction and analysis:</b> An aliquot of human urine containing the analyte and internal standard was extracted using a combined liquid-liquid and solid phase extraction procedure. The extracted samples were analyzed by an HPLC equipped with an AB SCIEX API 4000 <sup>TM</sup> triple quadrupole mass spectrometer using an ESI source. Positive ions were monitored in the multiple reaction monitoring (MRM) mode. Quantitation was determined using a weighted linear regression analysis (1/concentration <sup>2</sup> ) of peak area ratios of the analyte and internal standard.	
<b>Selectivity/Sensitivity/Matrix effect:</b>	No significant matrix effect was observed in any of the 10 human urine lots that were fortified with <i>trans</i> -3'-hydroxycotinine- <i>O</i> -glucuronide at the concentration of the LLOQ (200 ng/mL) or in any of the 10 human urine lots that were fortified with <i>trans</i> -3'-hydroxycotinine- <i>O</i> -glucuronide at the concentration of the high QC (15,000 ng/mL) samples
<b>Accuracy:</b>	Intra-batch: -2.5 to 3.0% R.E. Inter-batch: 0.0 to 1.0% R.E.
<b>Precision:</b>	Intra-batch: 1.3 to 8.3% CV Inter-batch: 2.4 to 5.3% CV
<b>Recovery:</b>	39% recovery at 600 ng/mL in human urine 45% recovery at 2000 ng/mL in human urine 46% recovery at 15,000 ng/mL in human urine
<b>Freeze and thaw stability:</b>	6 freeze (-20°C)-thaw (ambient temperature) cycles in polypropylene tubes under white light
<b>Short-term temperature stability:</b>	Short-Term Stability: 25 hours in polypropylene tubes at ambient temperature under white light  Cumulative Short-Term Stability: 57 hours in polypropylene tubes at ambient temperature under white light (total of all thaw cycles)
<b>Long-term stability:</b>	476 days in polypropylene tubes at -20°C
<b>Stock solution stability:</b>	34 days at 250 µg/mL in water in a polypropylene container at -20°C





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



## BIOANALYTICAL METHOD SUMMARY (BMS)

Doc No: FDR\_QM000496 - CR204A2

Version N°: 2.0

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<b>Post-preparative stability:</b>	302 hours in a polypropylene 96 well plate at 5°C	
<b>Stability of Analyte During Sample Collection and Handling:</b>	45 minutes in non-colored high-density polyethylene containers at ambient temperature under white light, 4 hours in amber high-density polyethylene containers at ambient temperature under white light, 2 days in amber high-density polyethylene containers at 5°C in a refrigerator  Up to 96 hours in smoker human urine in high-density polyethylene containers at 5°C, 20°C, and 40°C under UV-shielded light	
<b>Accreditation/ GLP compliance/ QA statements:</b>	GLP Compliance as Assay Validation conforms to Celerion Standard Operating Procedures which were written in compliance with FDA: Guidance to Industry "Bioanalytical Method Validation"	
<b>BMS completed by:</b>		
<b>Name:</b> Erica Nash	<b>Date:</b> 31-Oct-2014	<b>Signature:</b> 



Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide  
in Human Urine  
Celerion Study AA99071-06

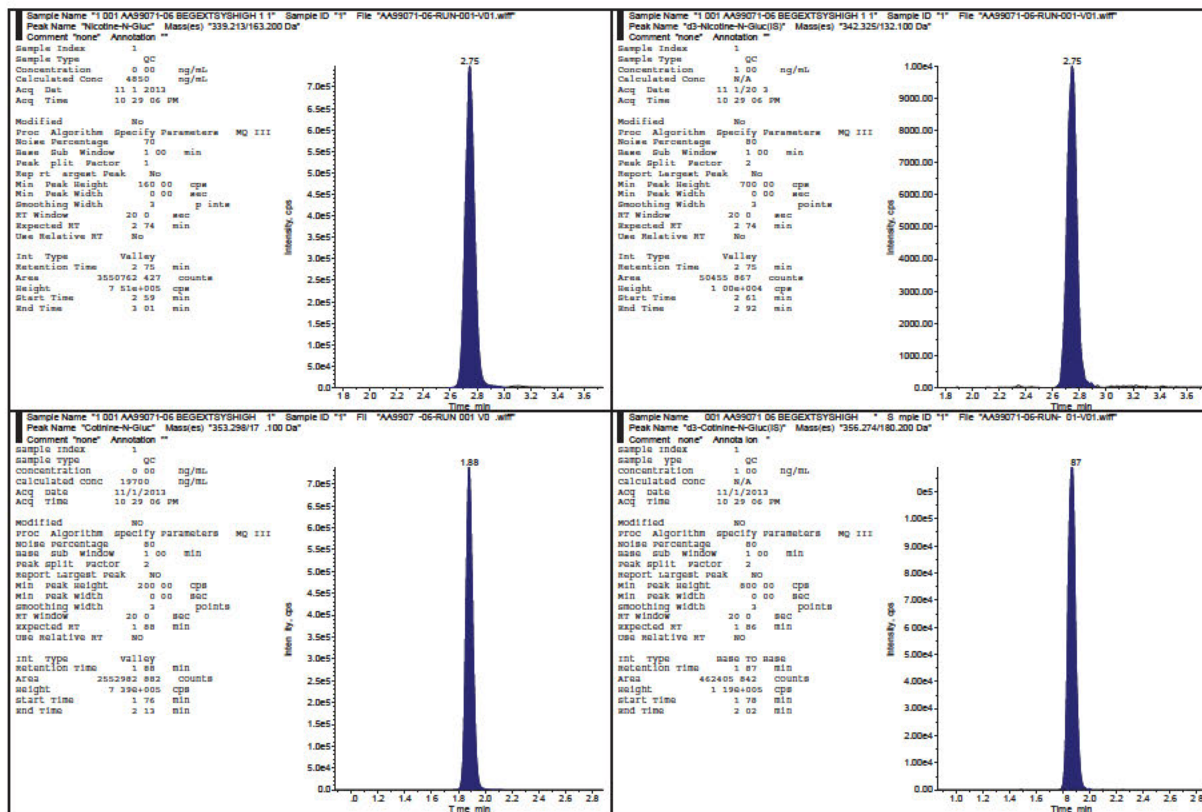
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#### Attachment 8 Chromatograms

Total number of pages including this page: 277

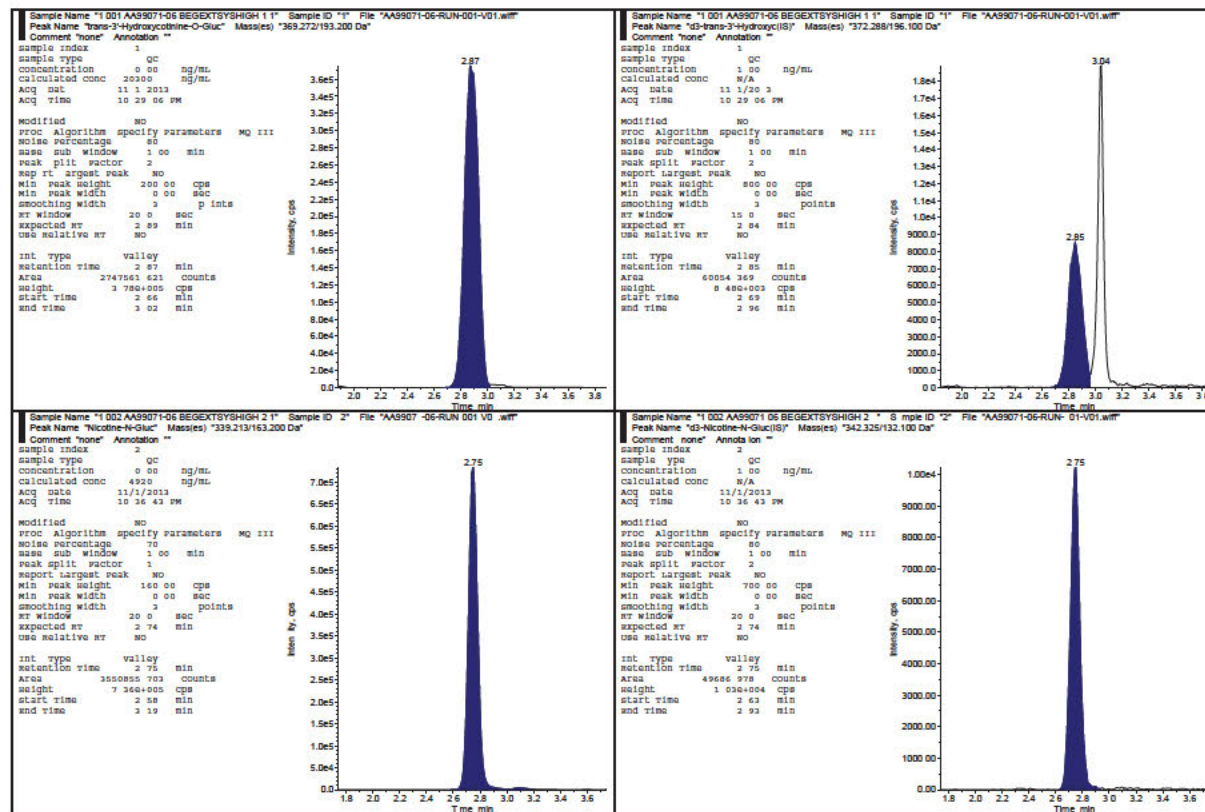


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Celerion Study AA99071-06





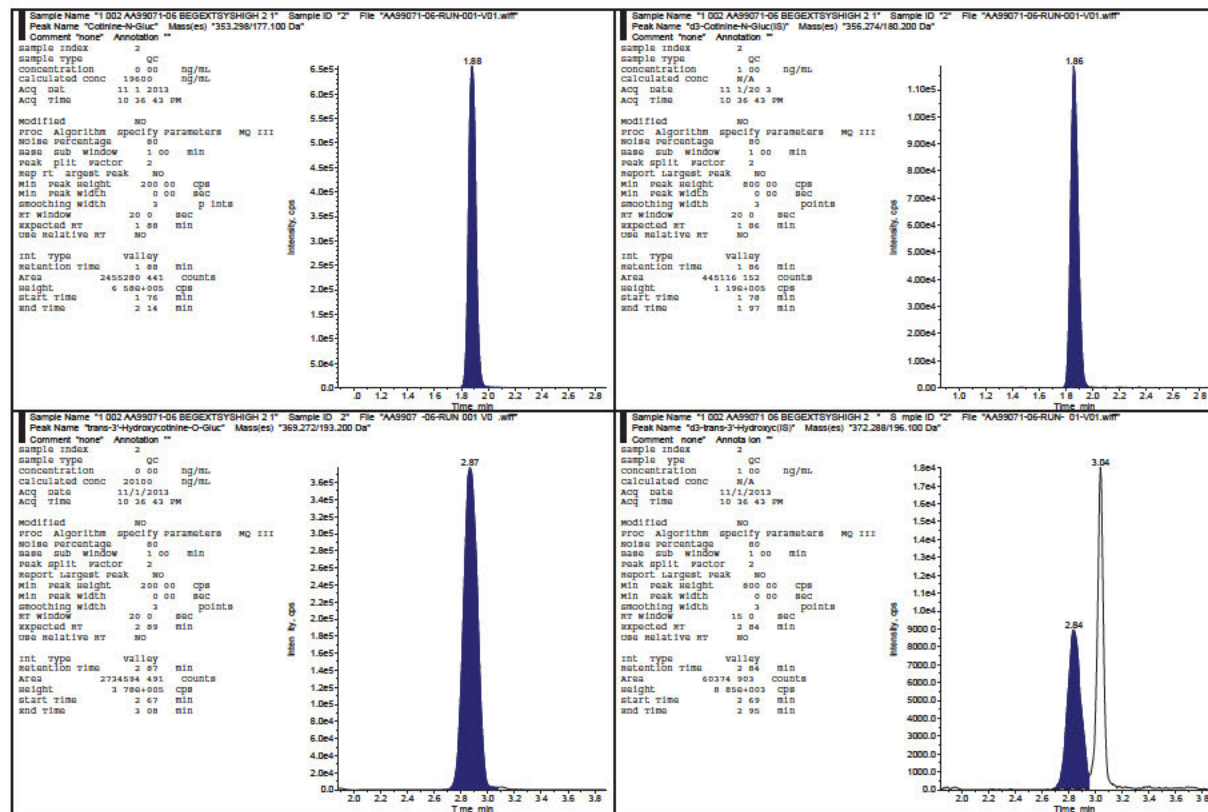
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Celerion Study AA99071-06





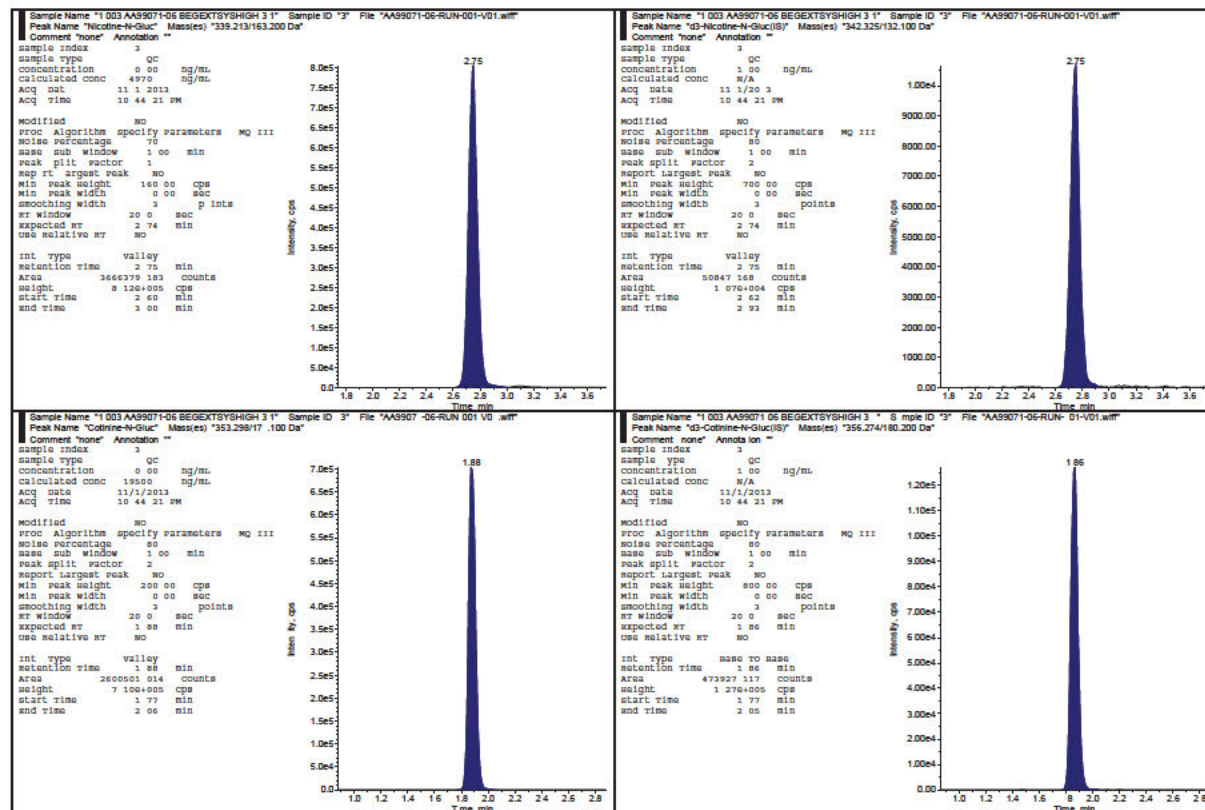


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Celerion Study AA99071-06



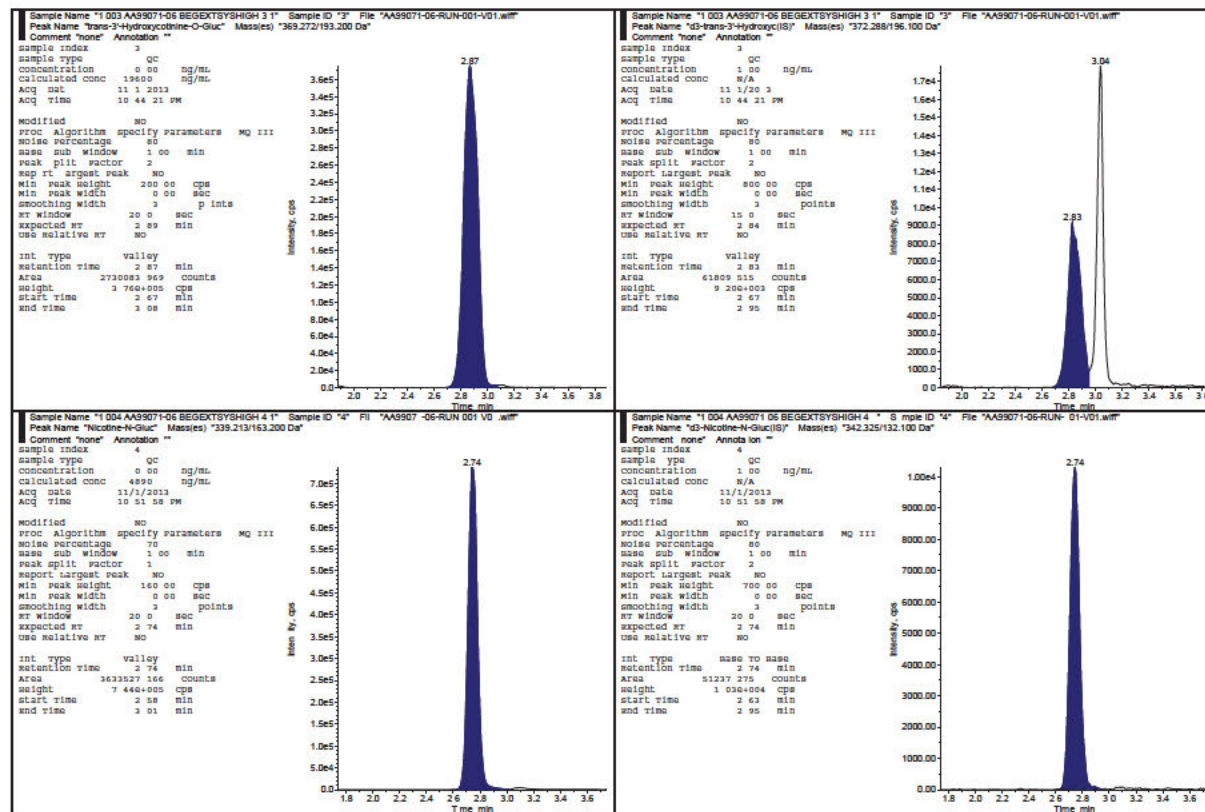


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Celerion Study AA99071-06



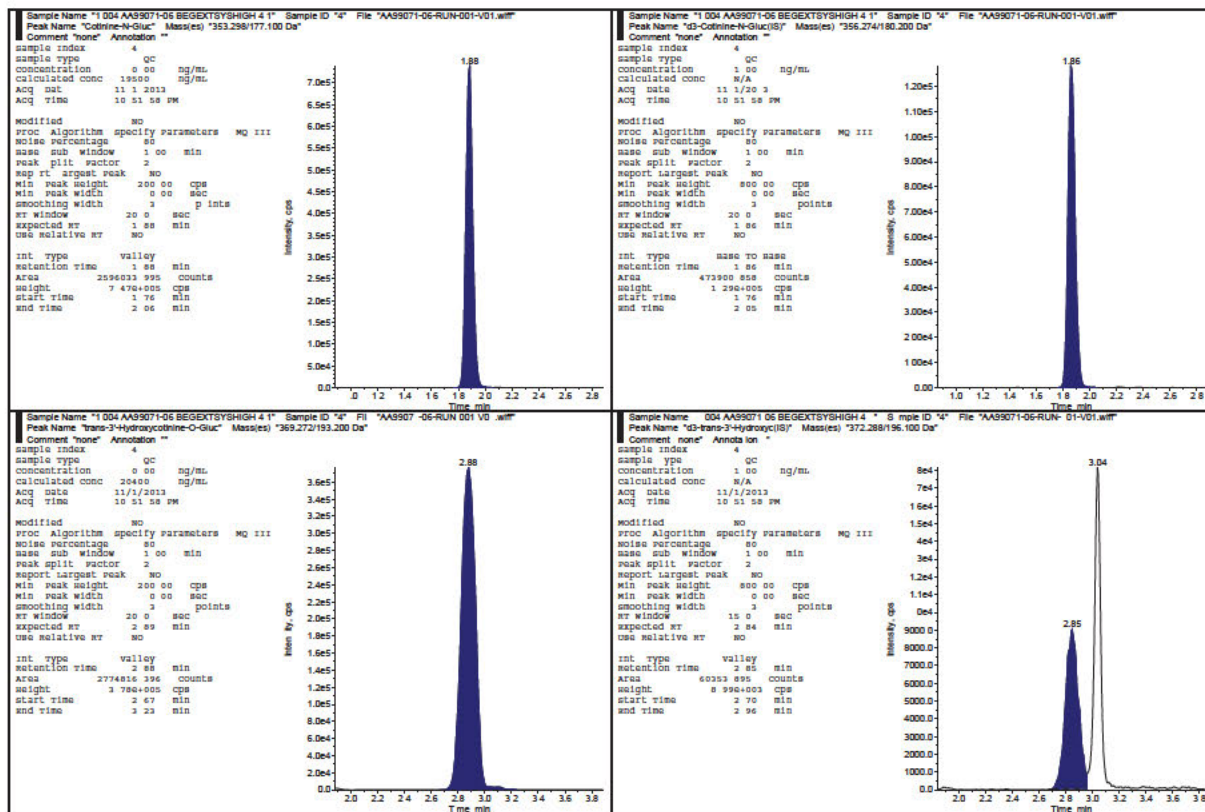


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





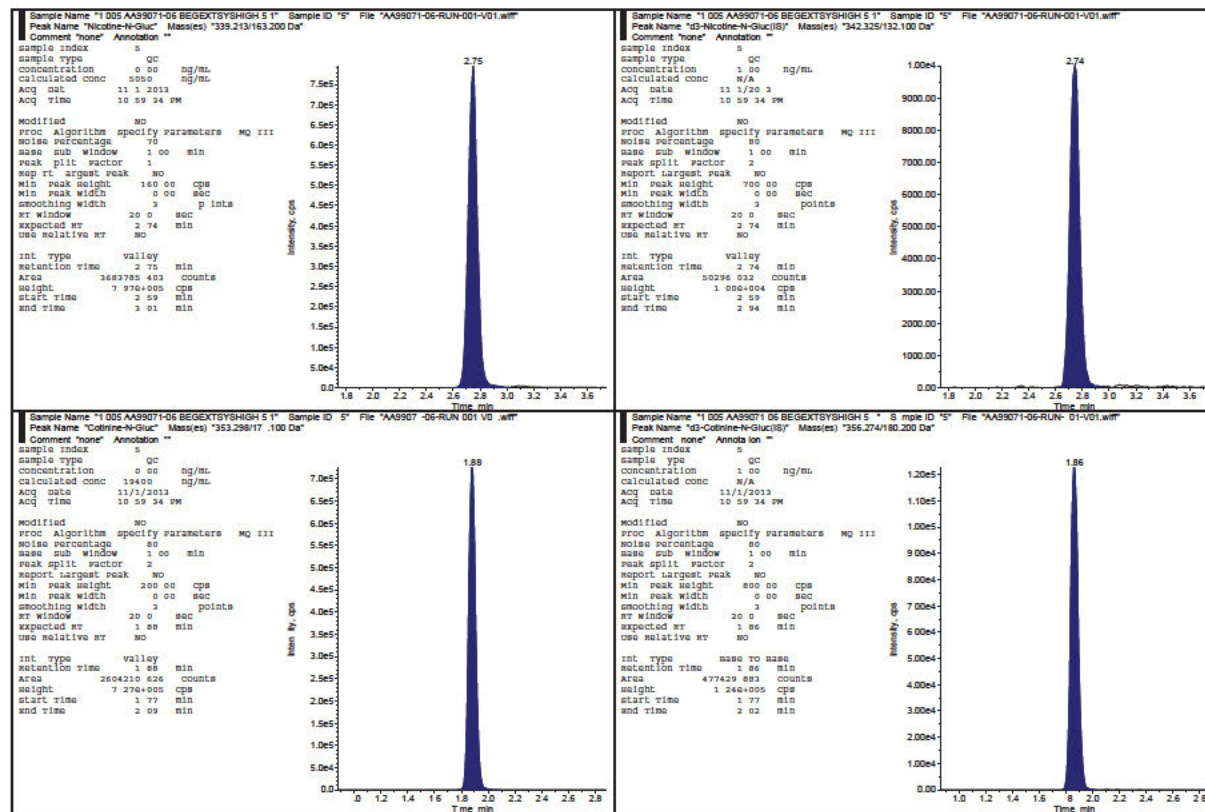
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Celerion Study AA99071-06





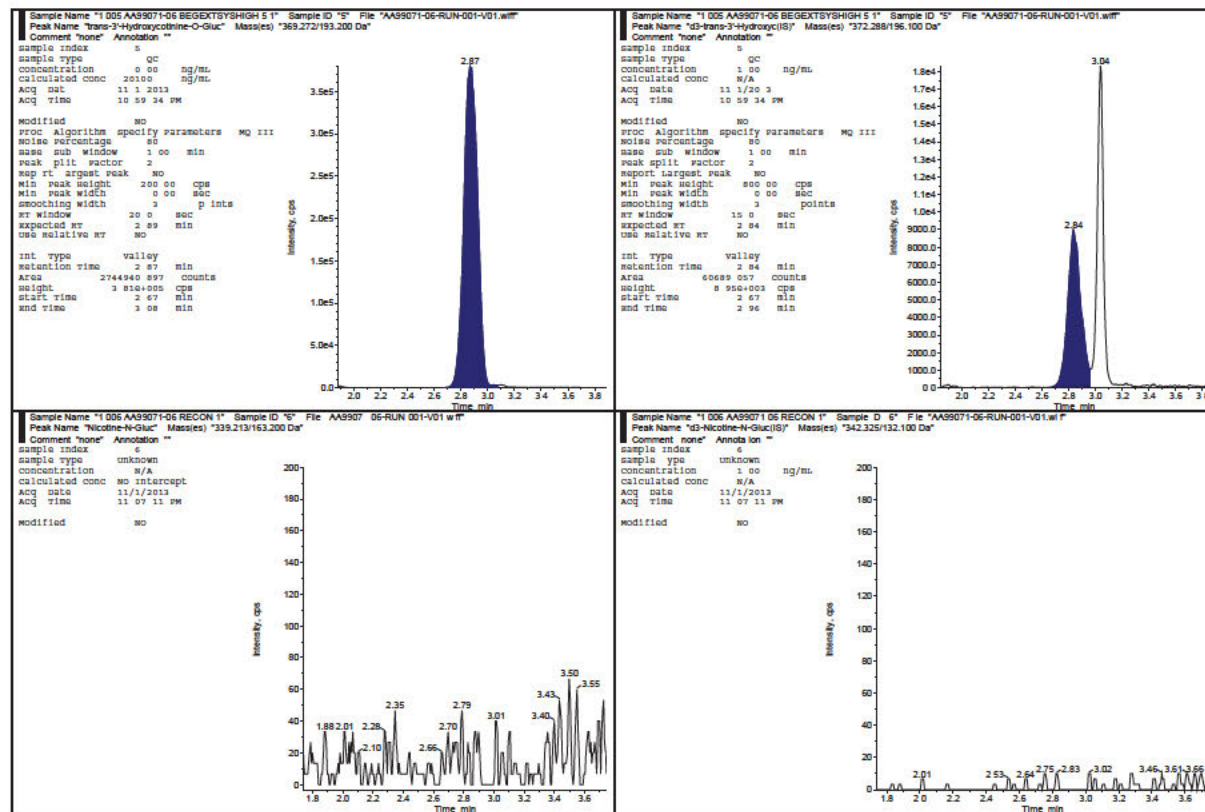


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Celerion Study AA99071-06



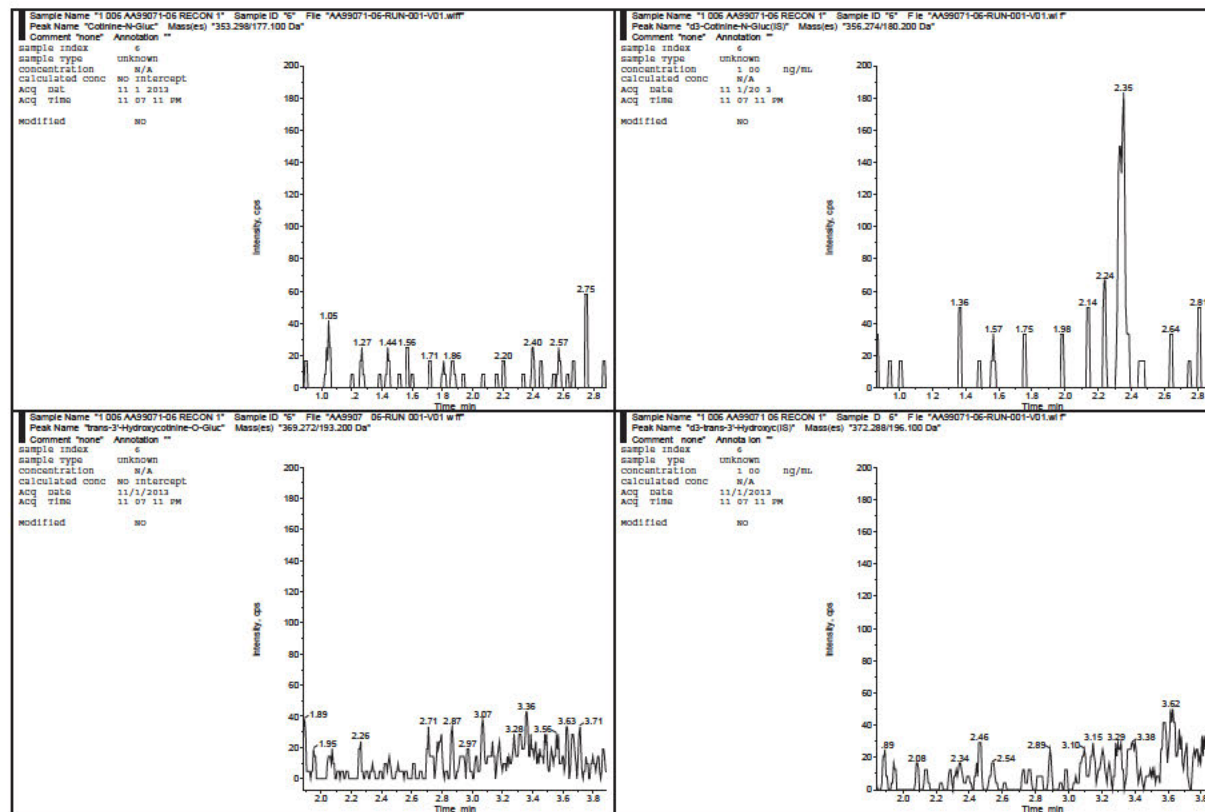


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Celerion Study AA99071-06



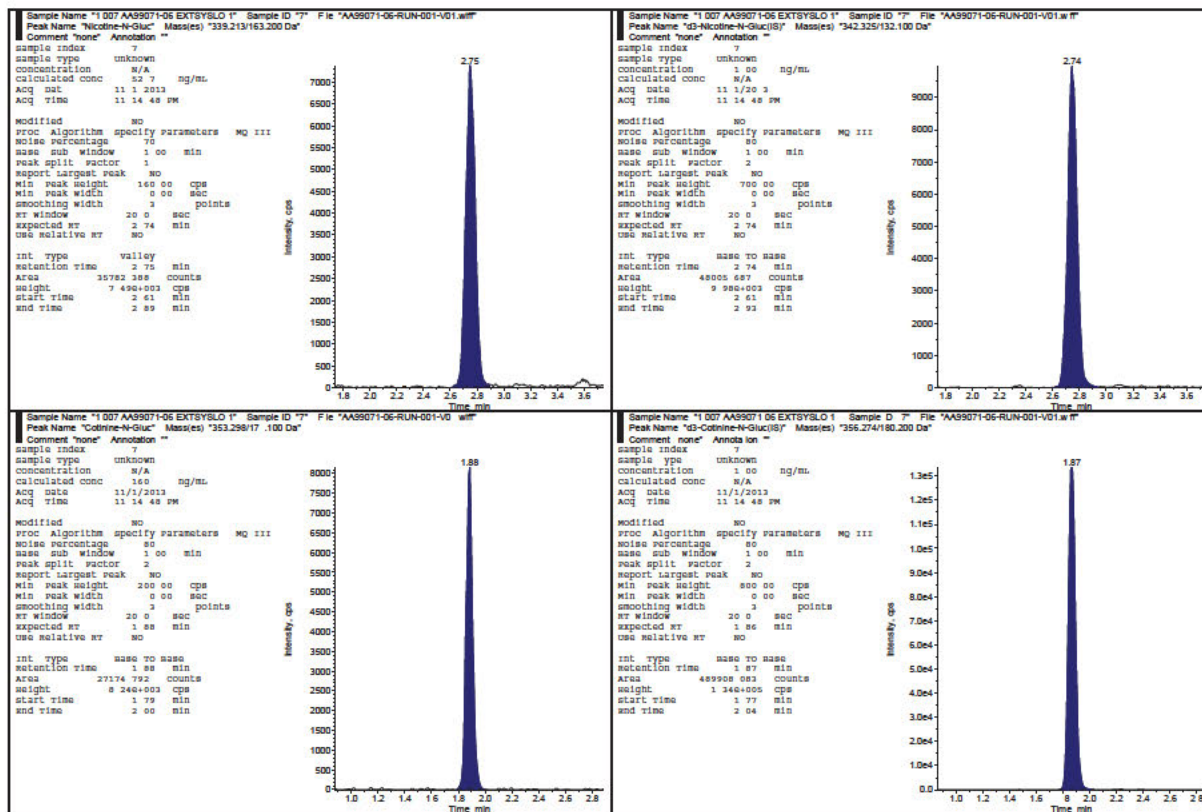


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Celerion Study AA99071-06





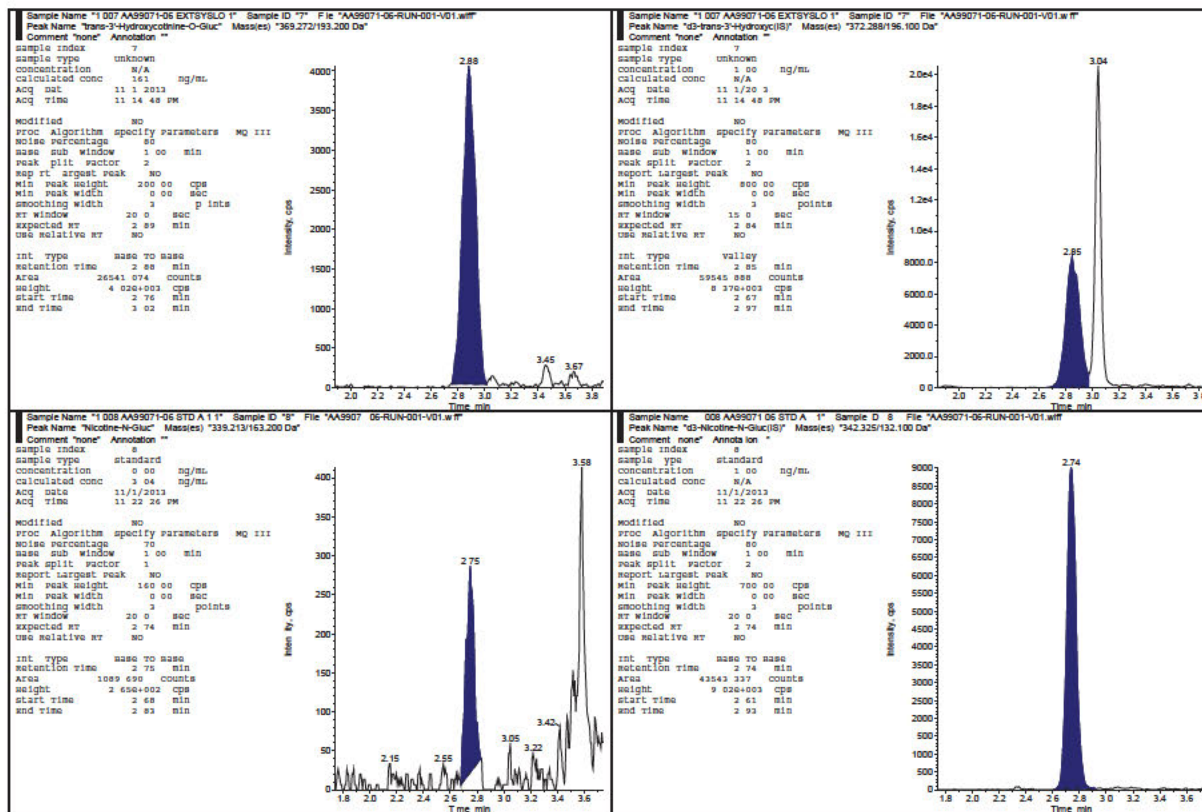
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Celerion Study AA99071-06





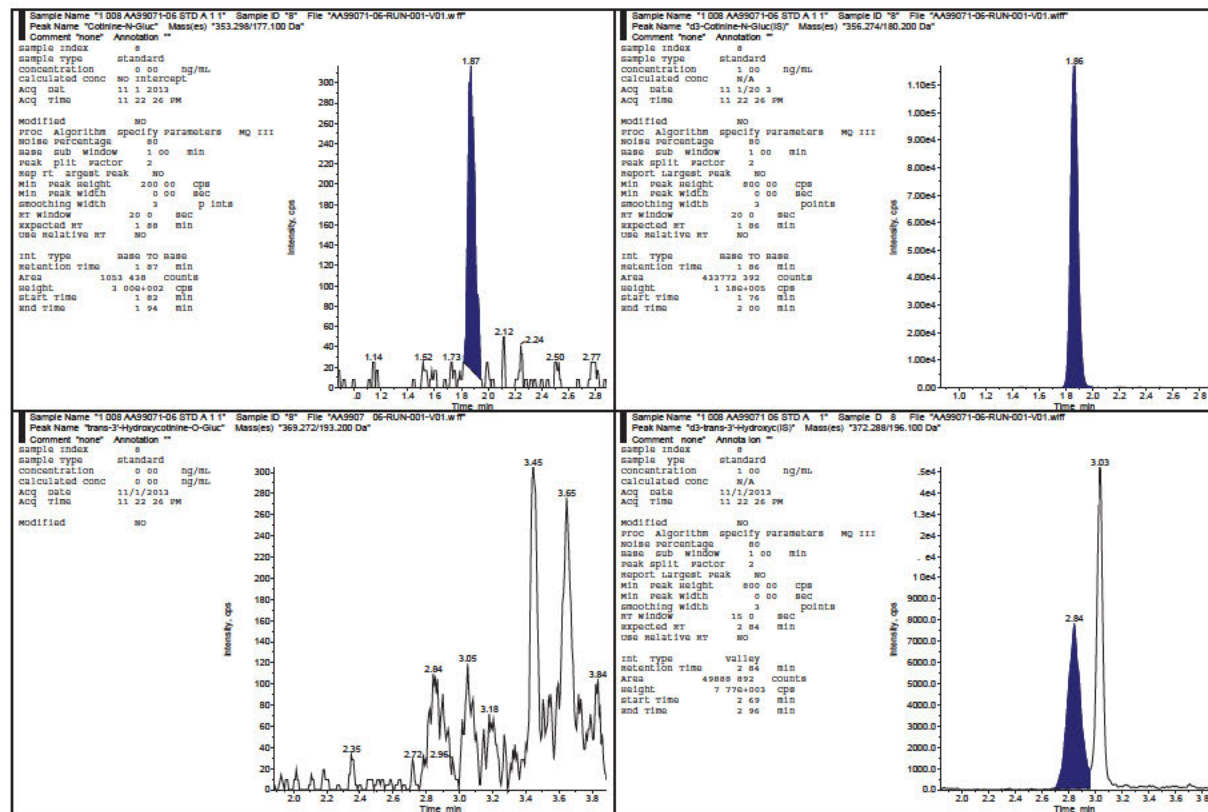


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



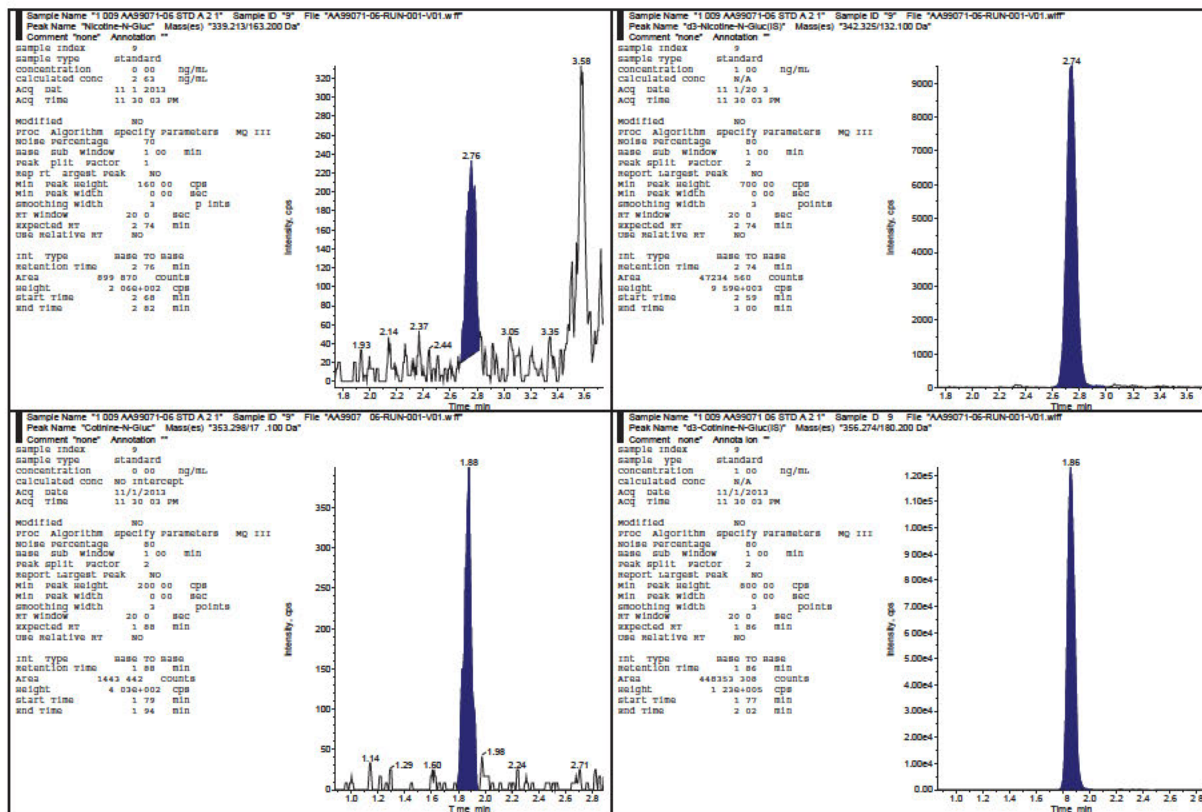


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Celerion Study AA99071-06



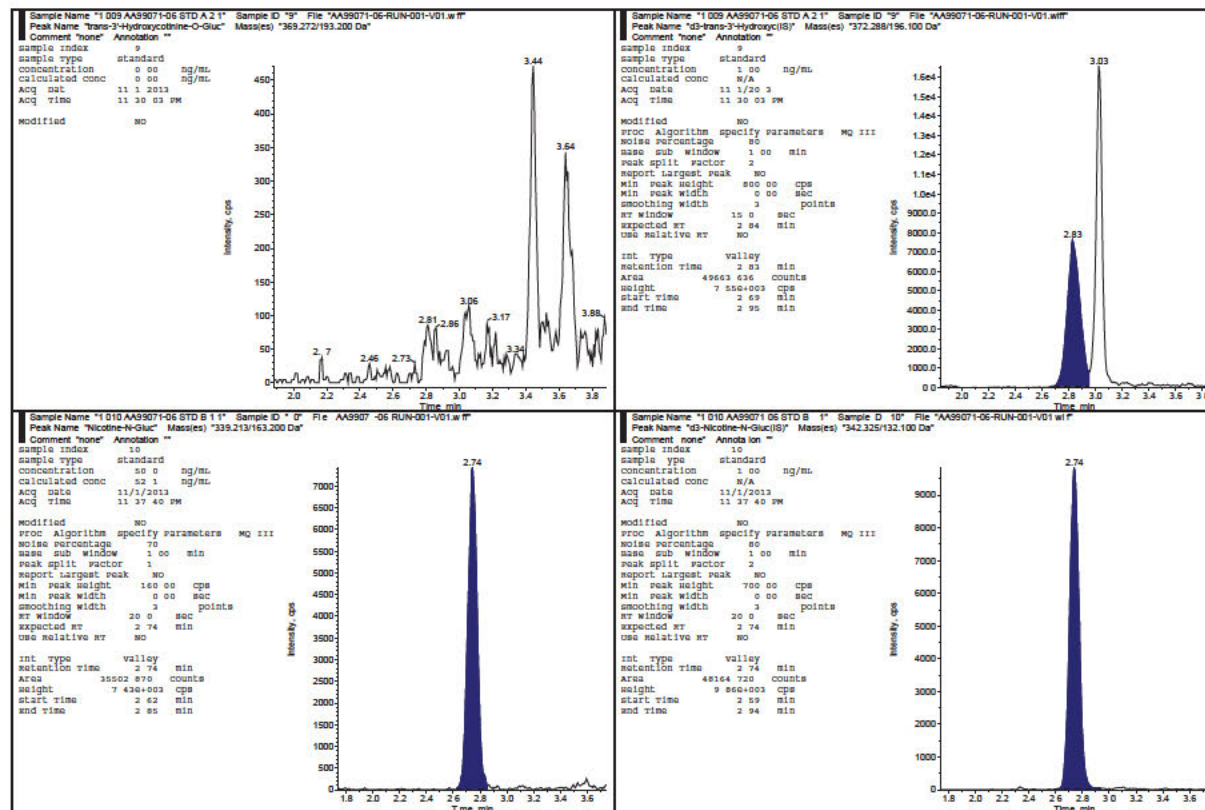


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Celerion Study AA99071-06





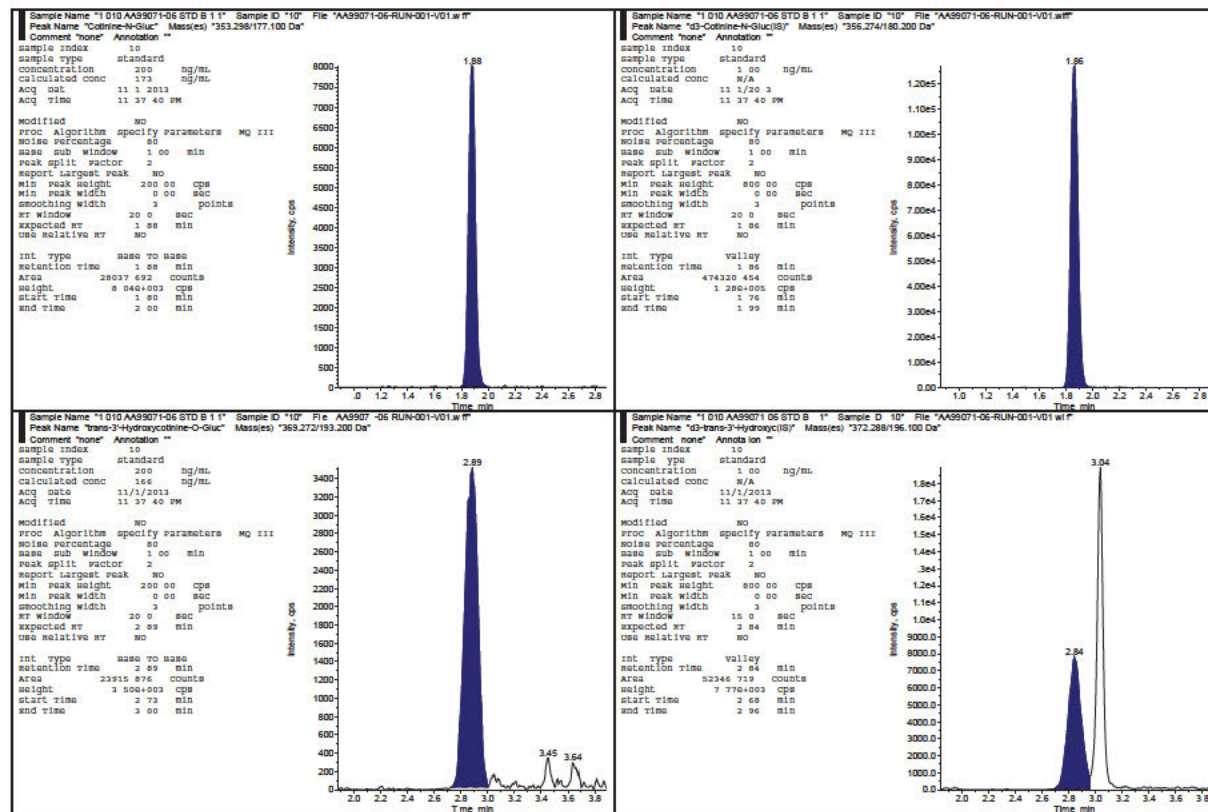
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Celerion Study AA99071-06





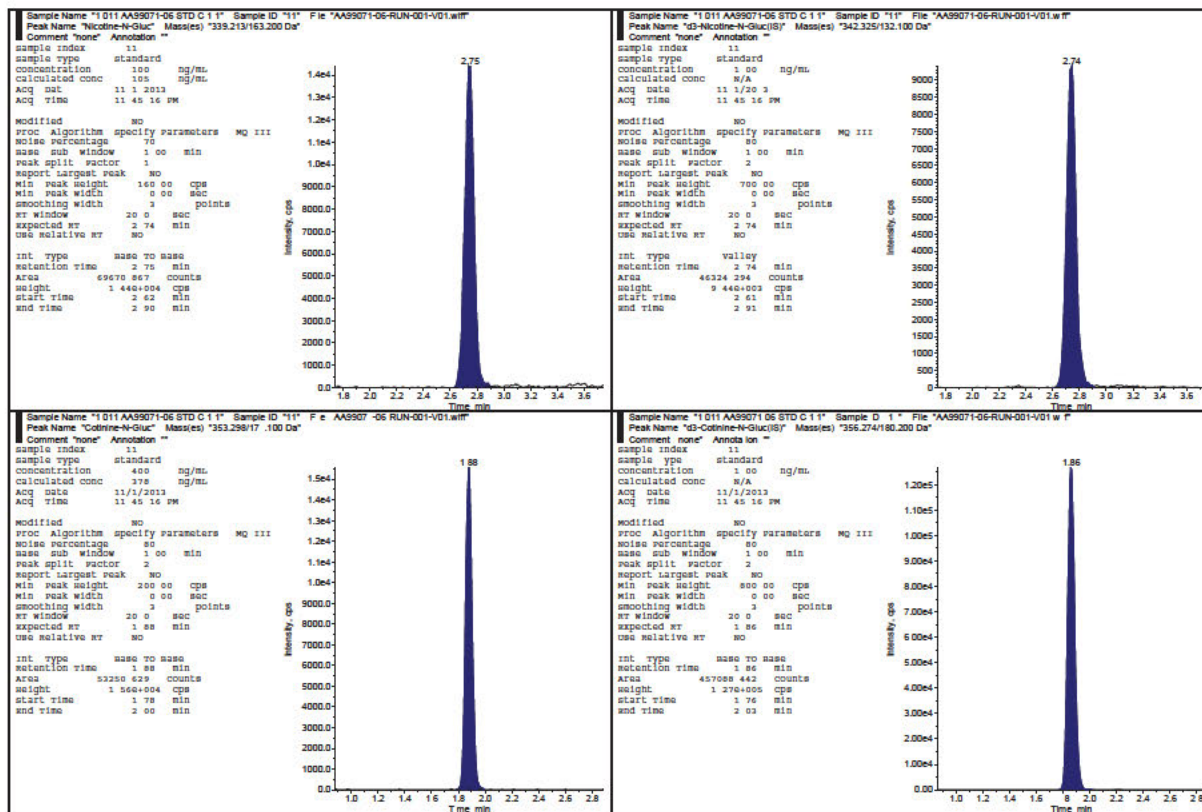


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



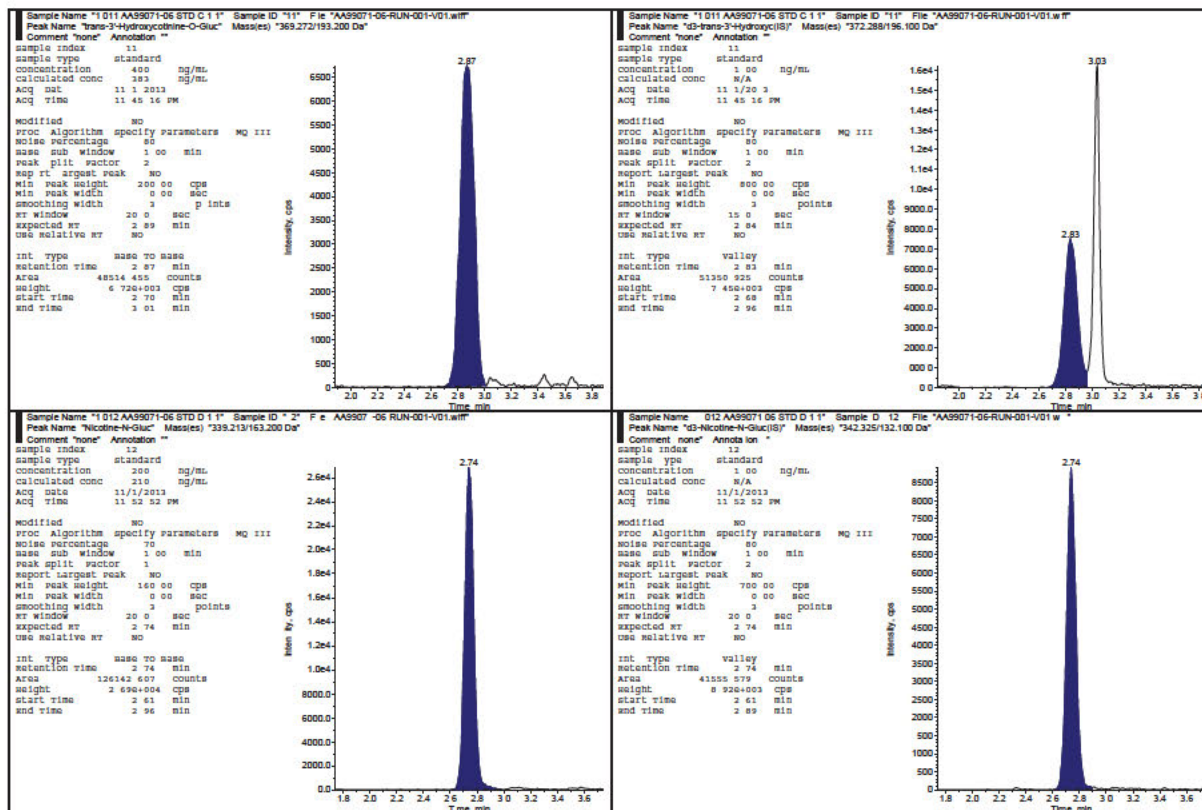


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



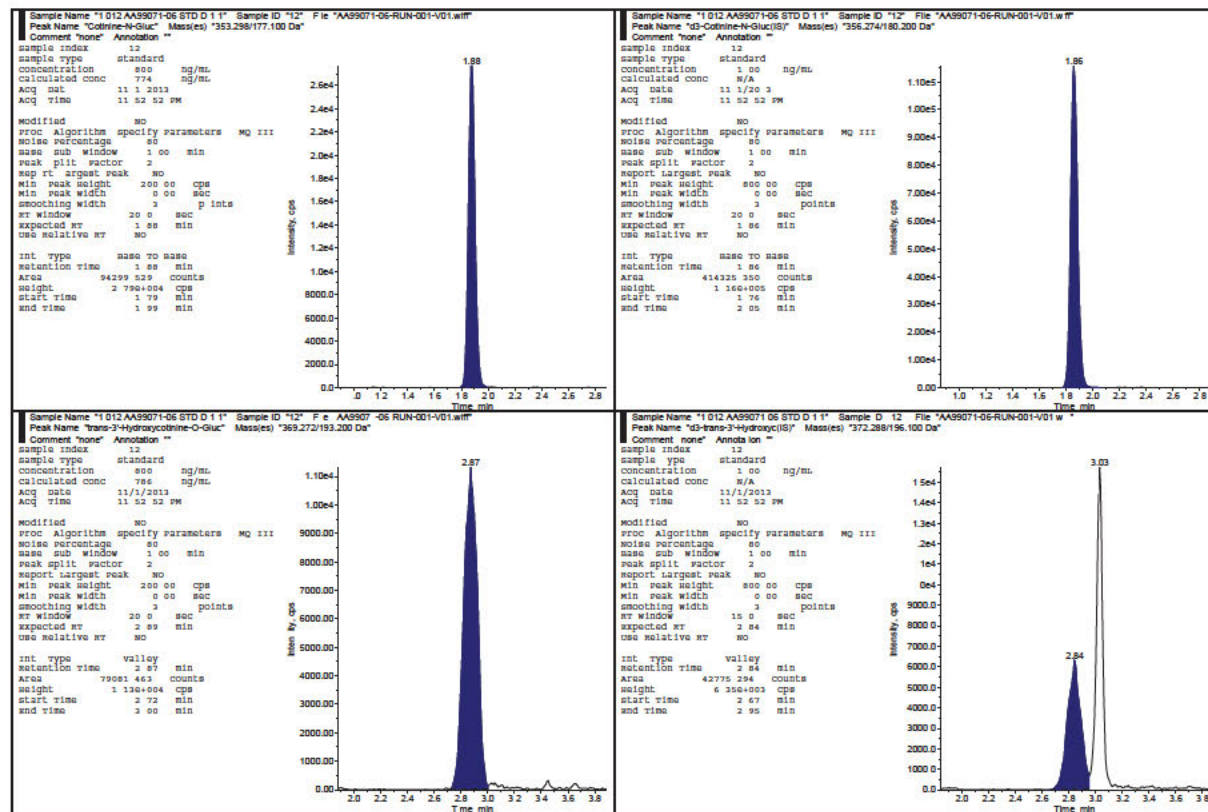


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Celerion Study AA99071-06





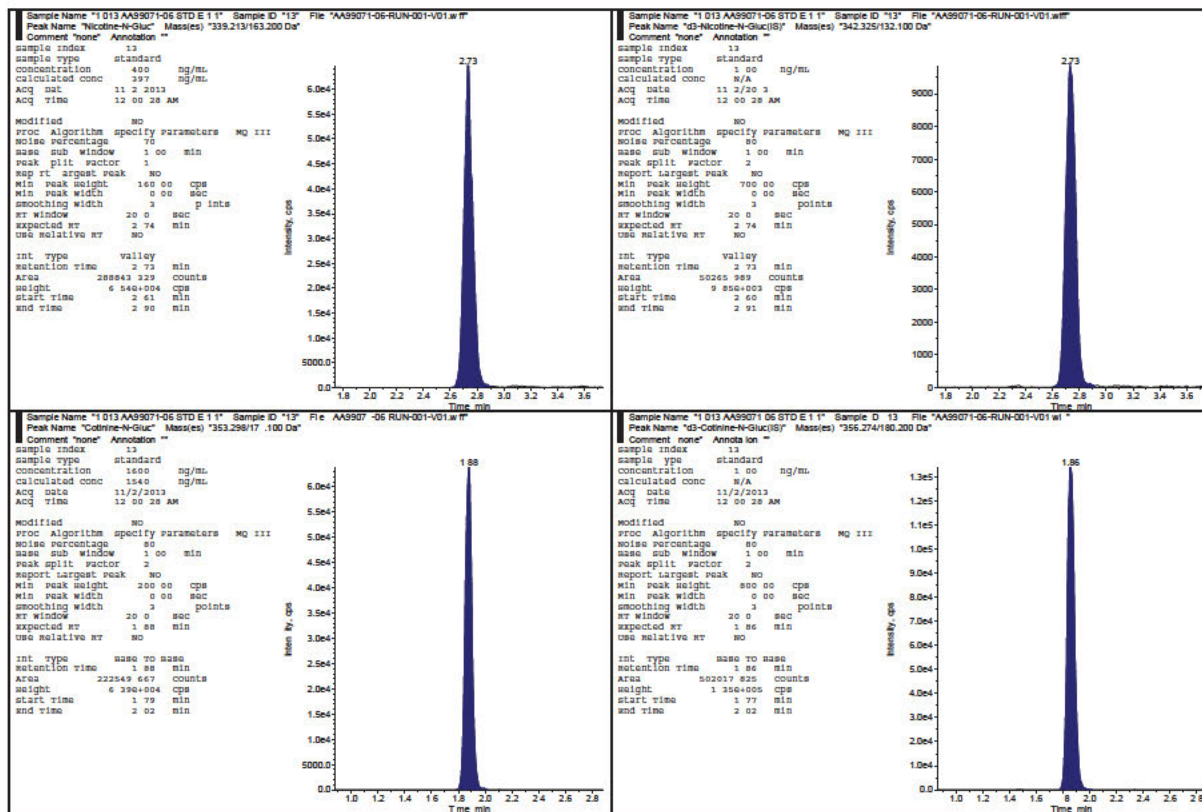
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Celerion Study AA99071-06





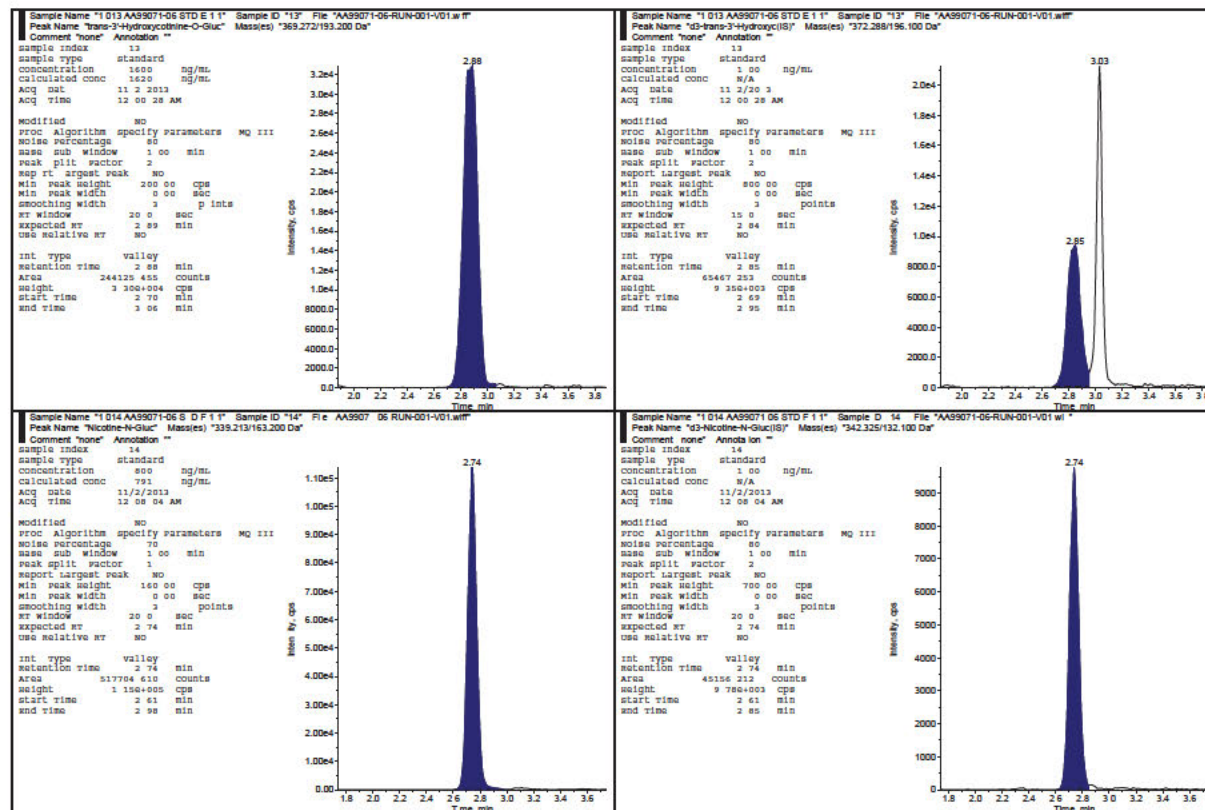


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



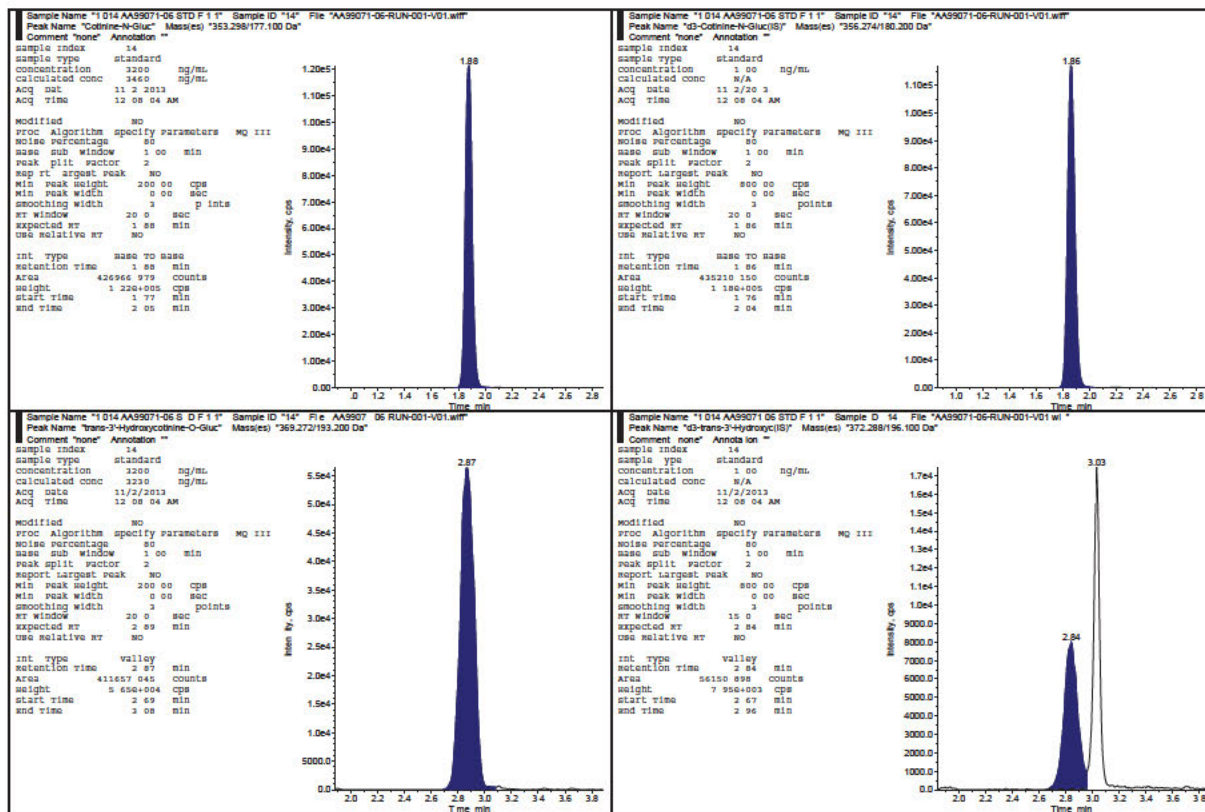


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



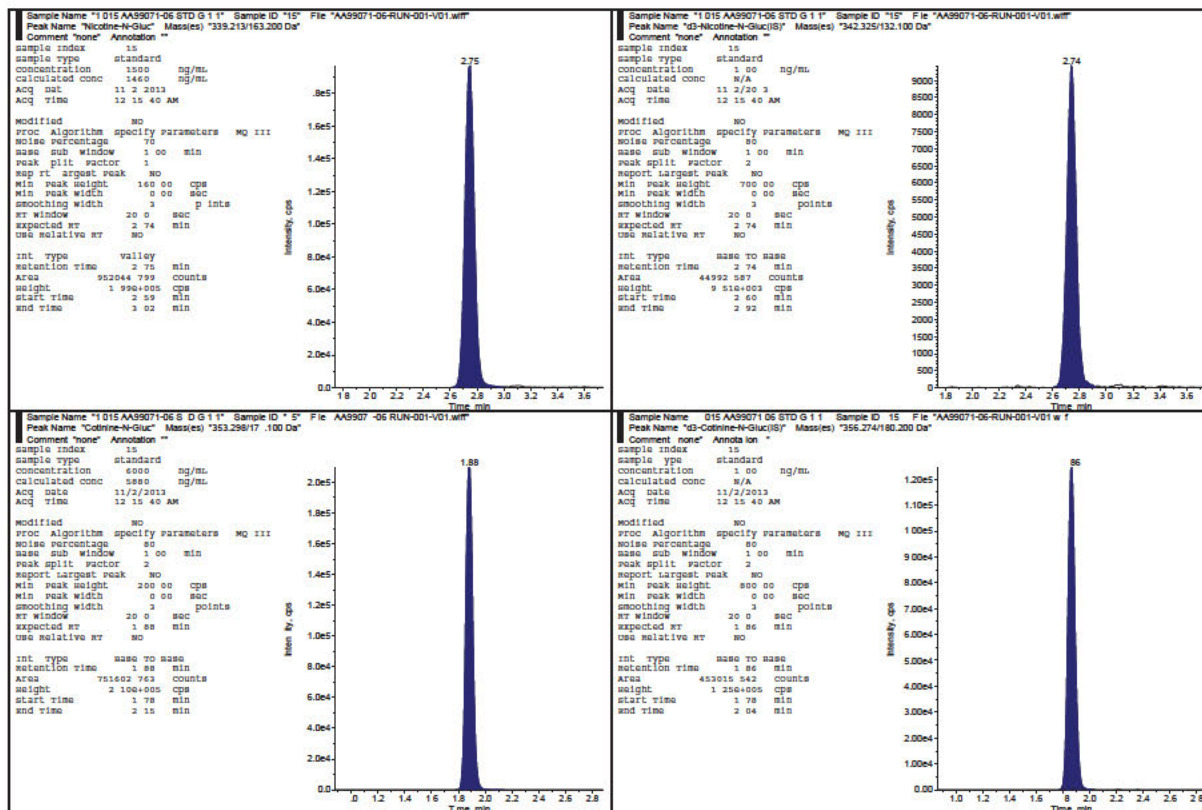


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





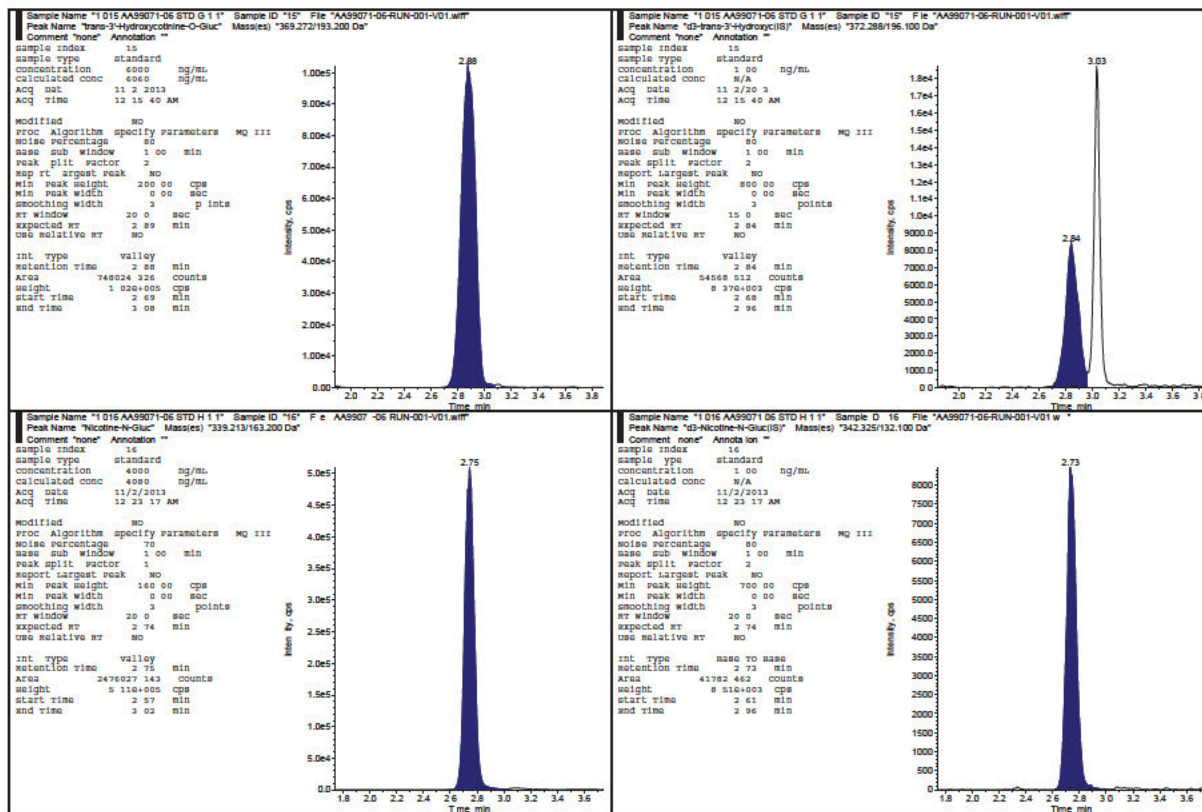
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





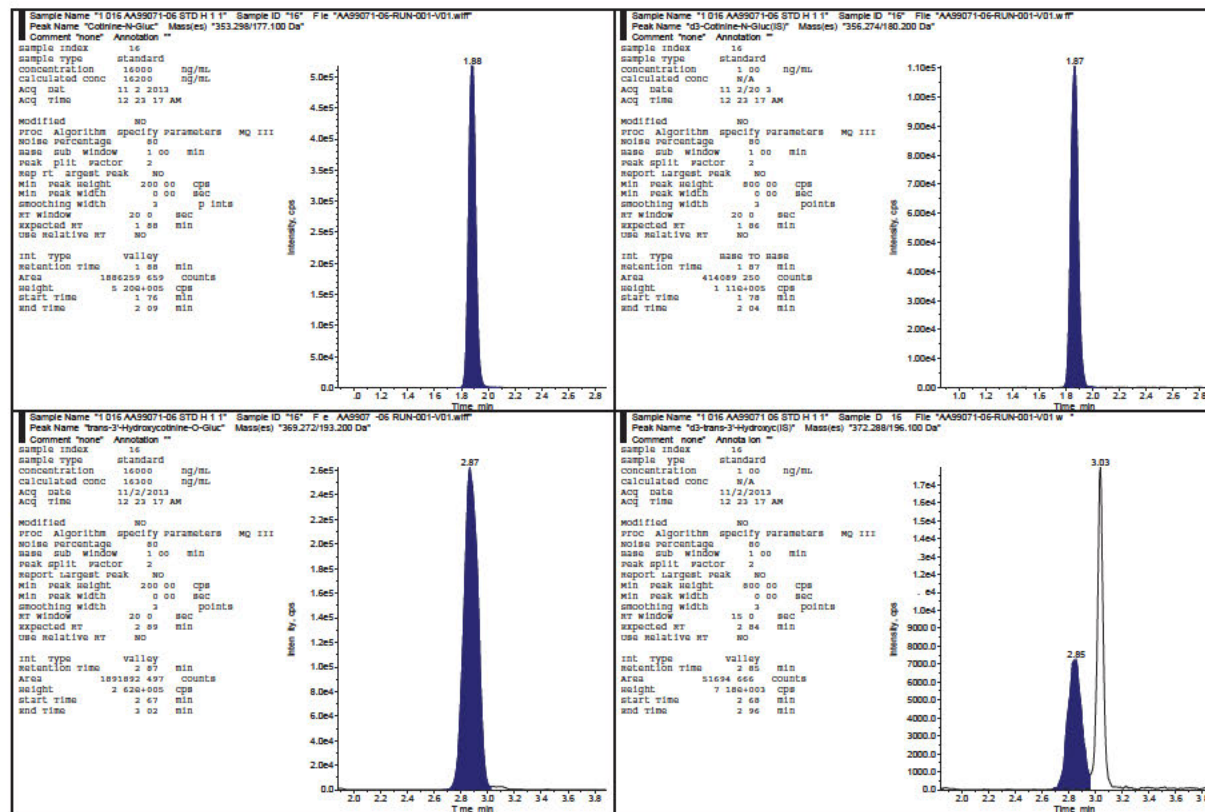


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Celerion Study AA99071-06



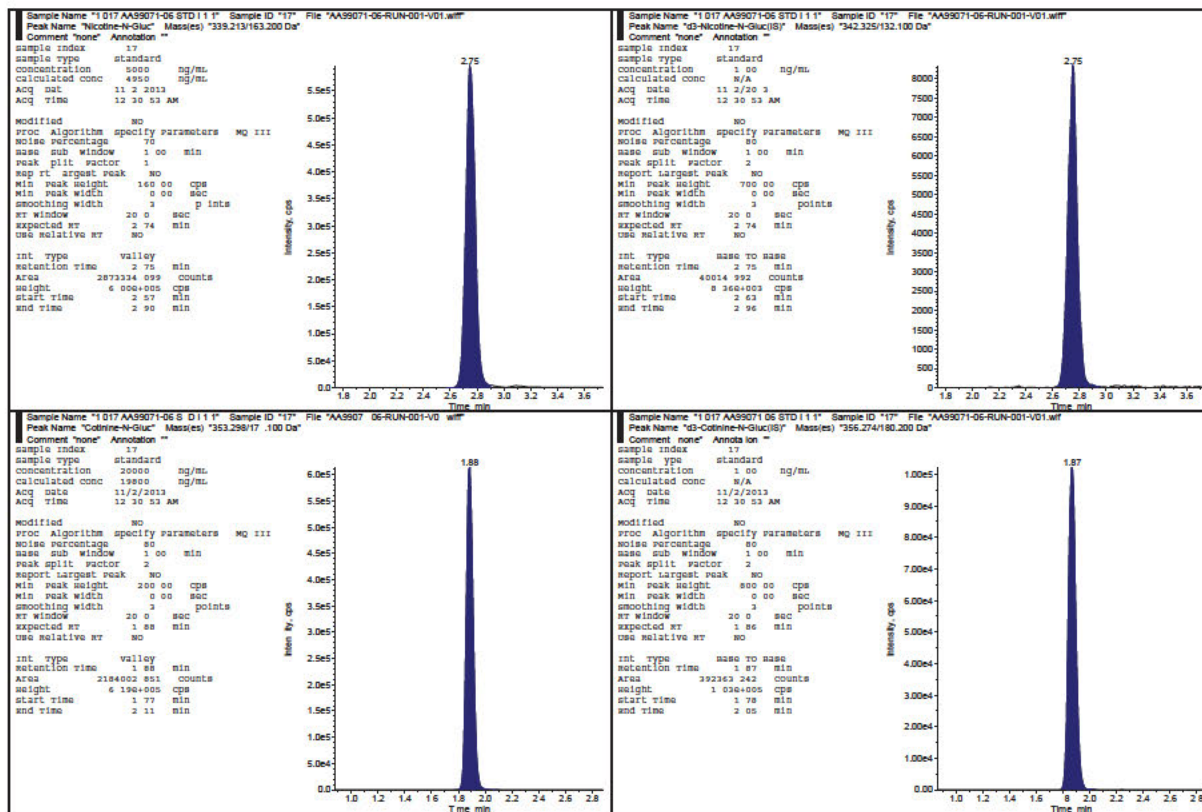


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Celerion Study AA99071-06



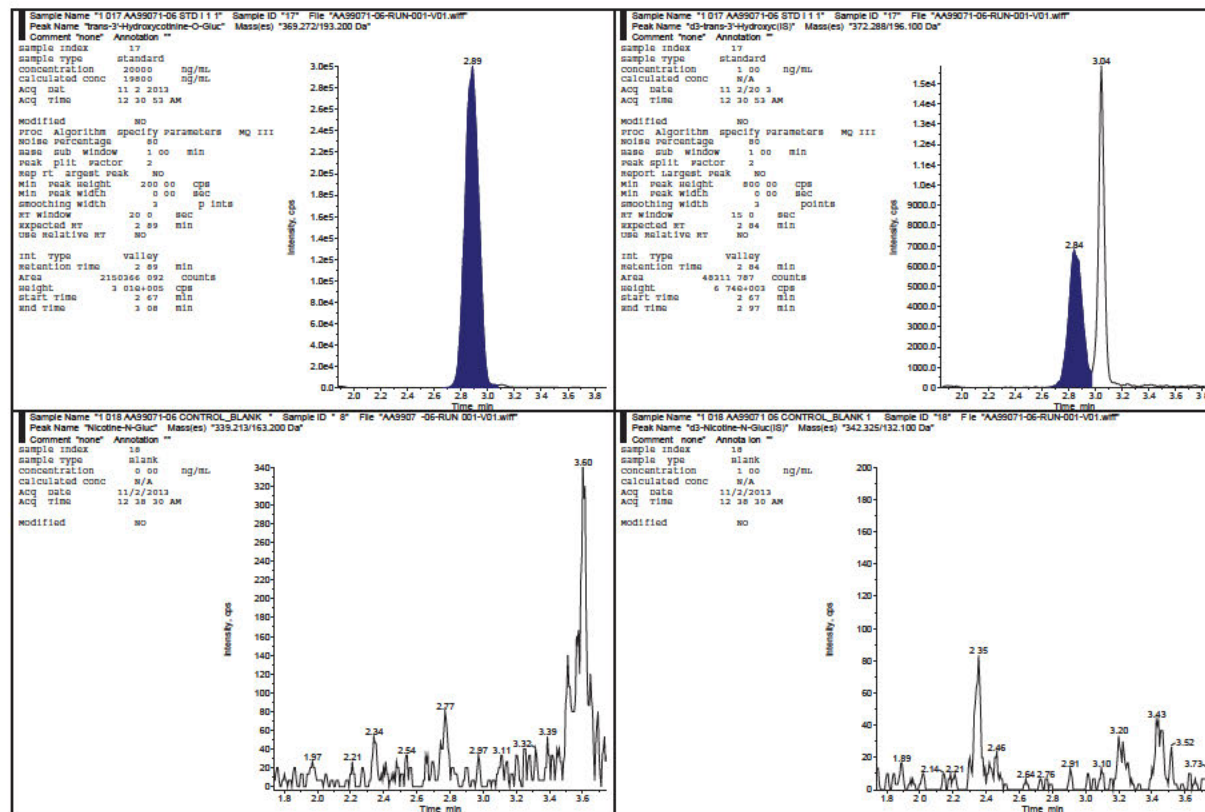


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Celerion Study AA99071-06





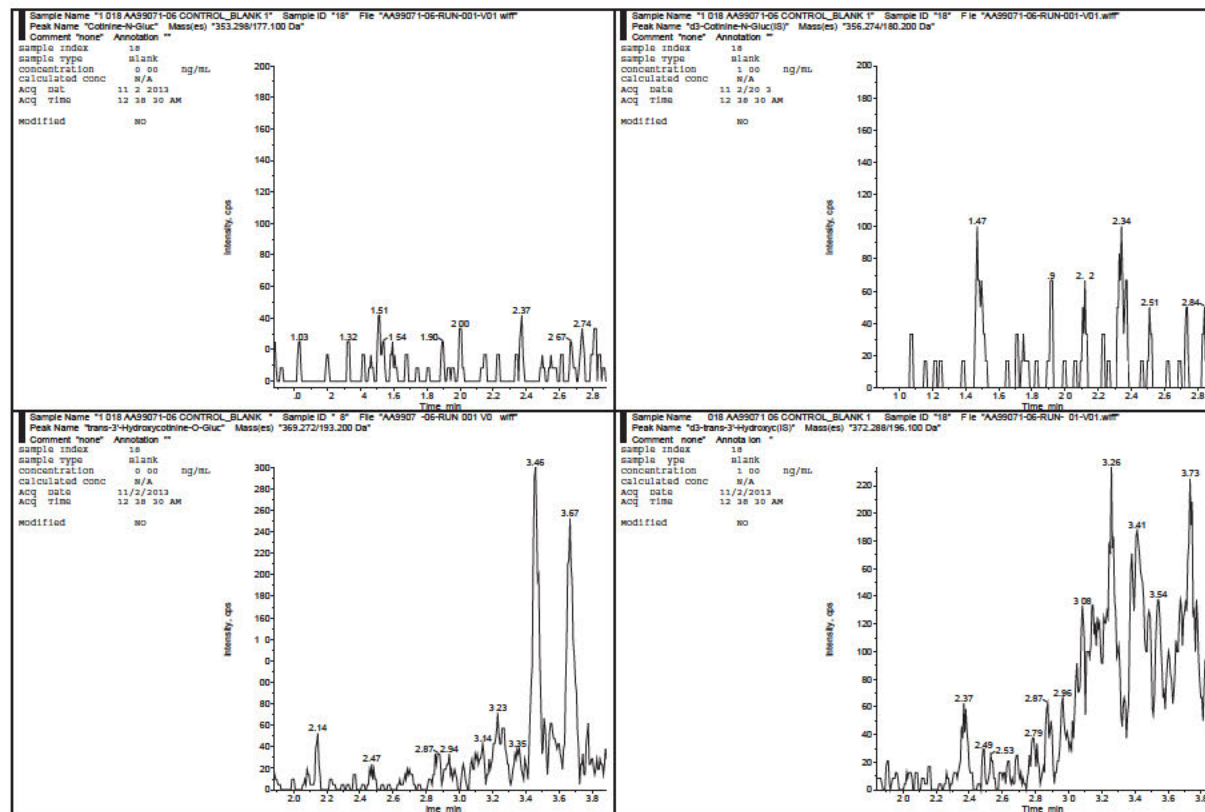
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Celentron Study AA99071-06





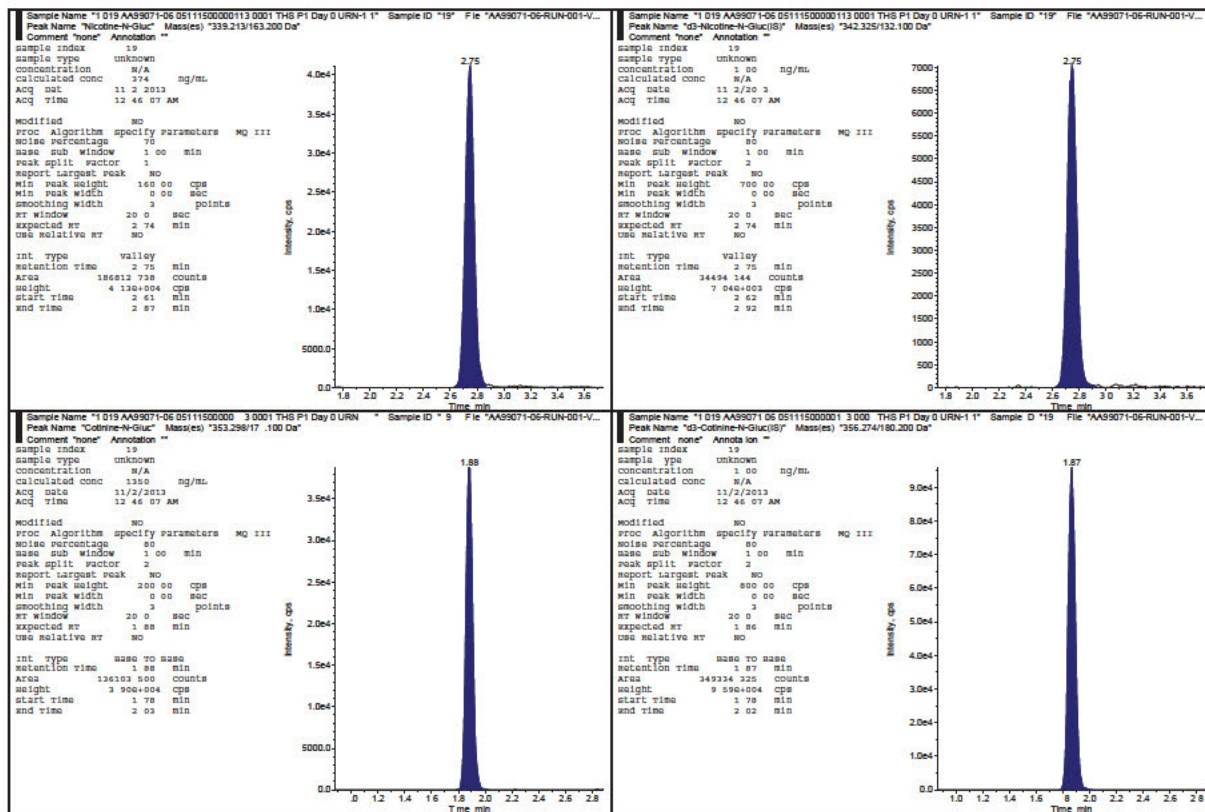


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



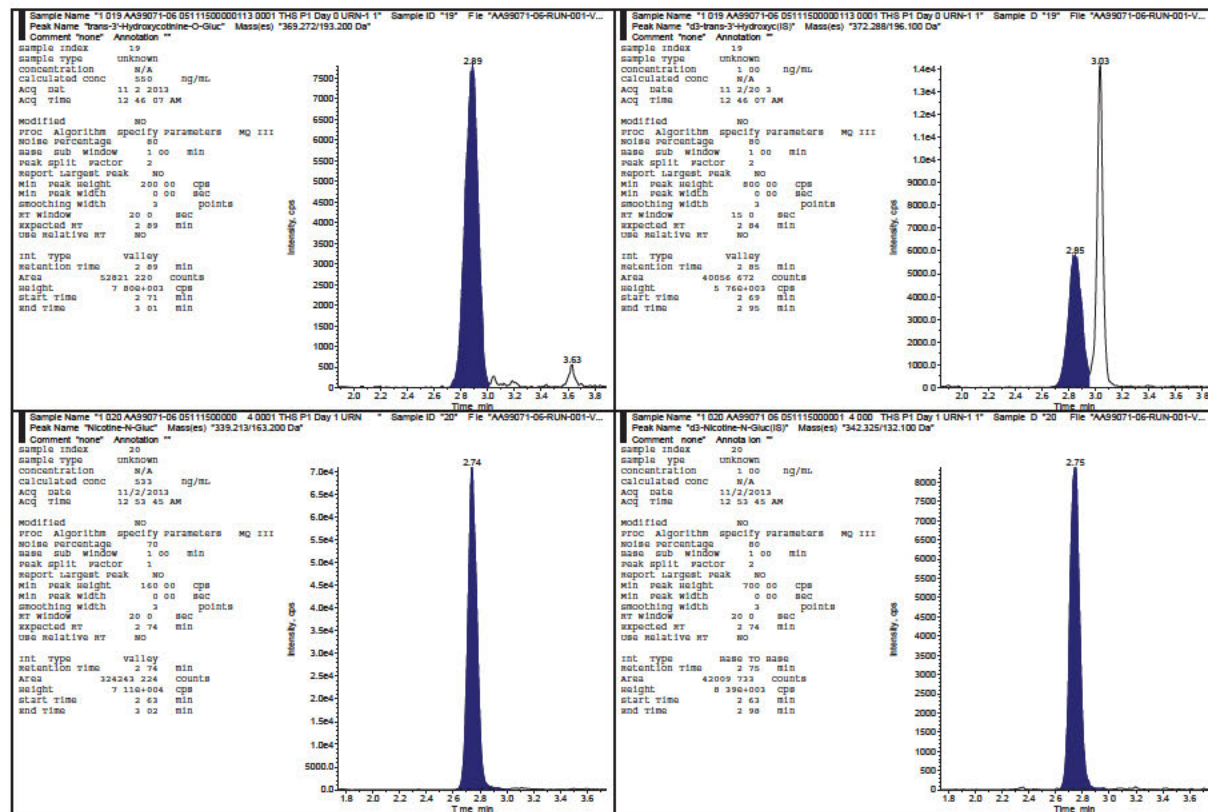


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Celerion Study AA99071-06



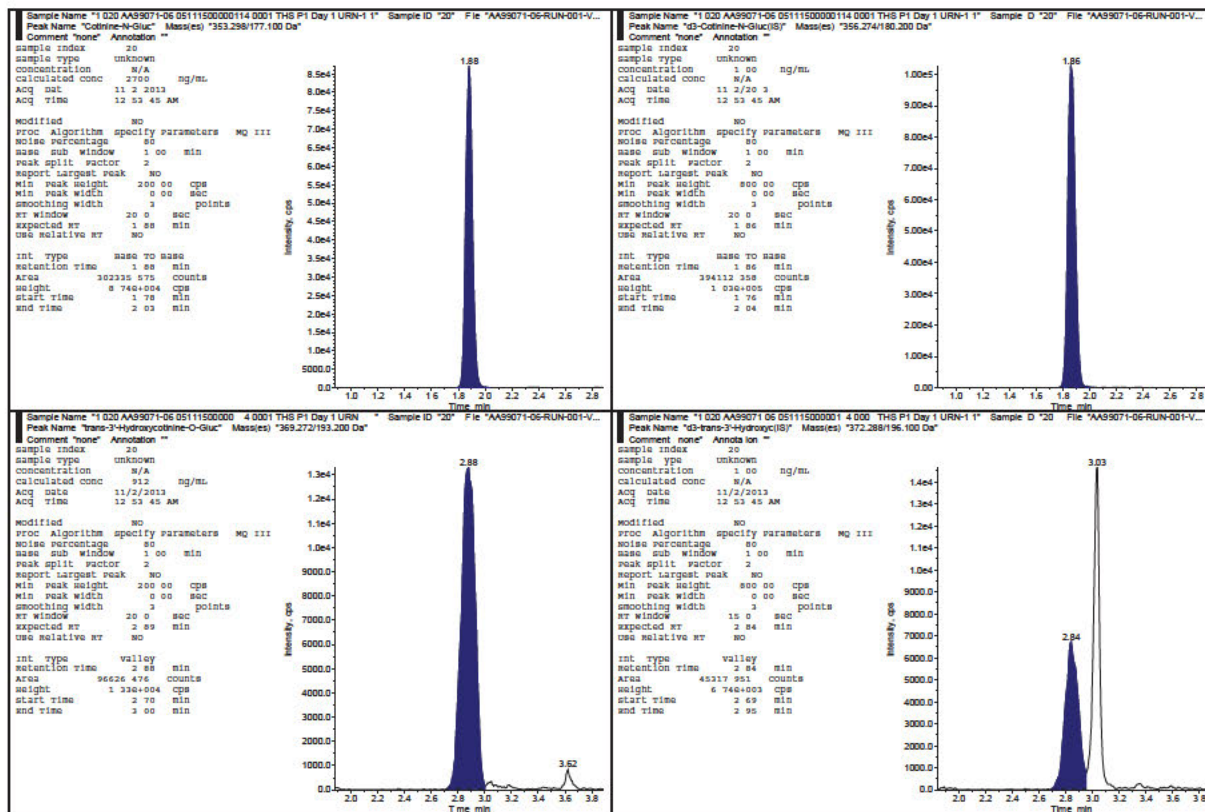


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Celerion Study AA99071-06





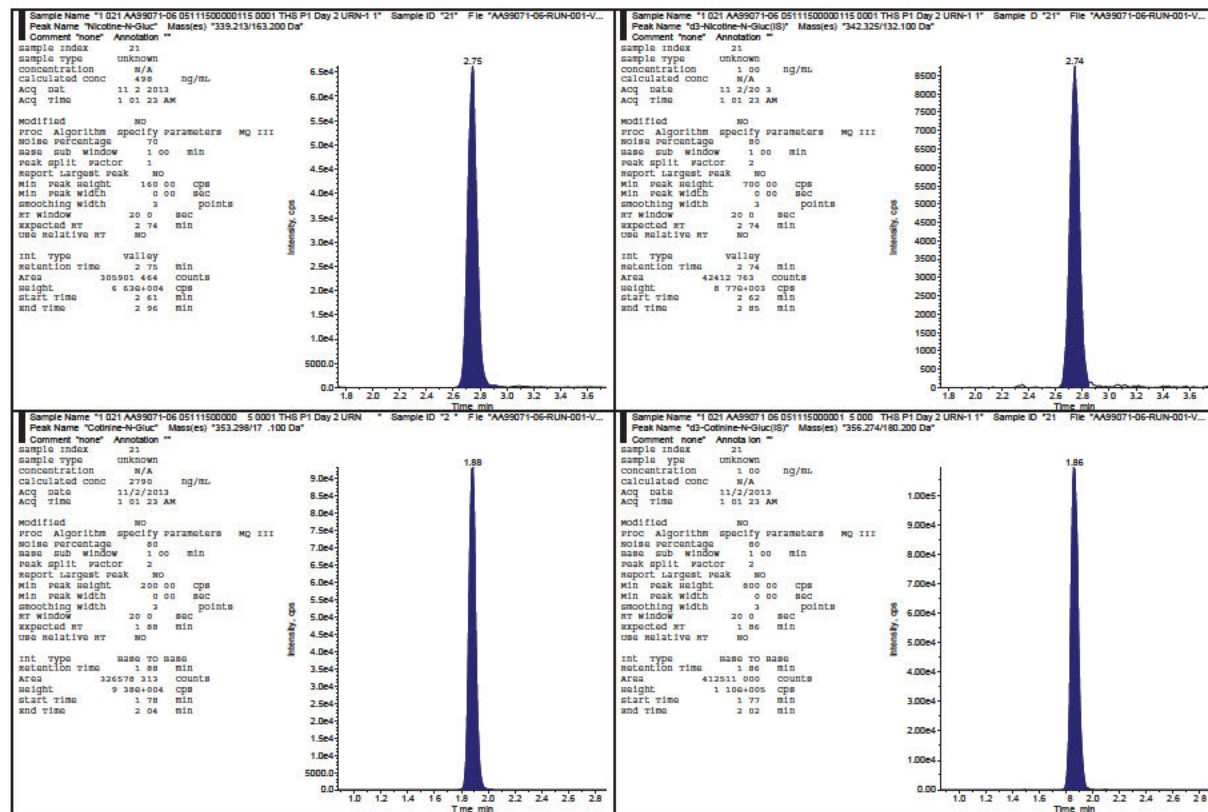
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





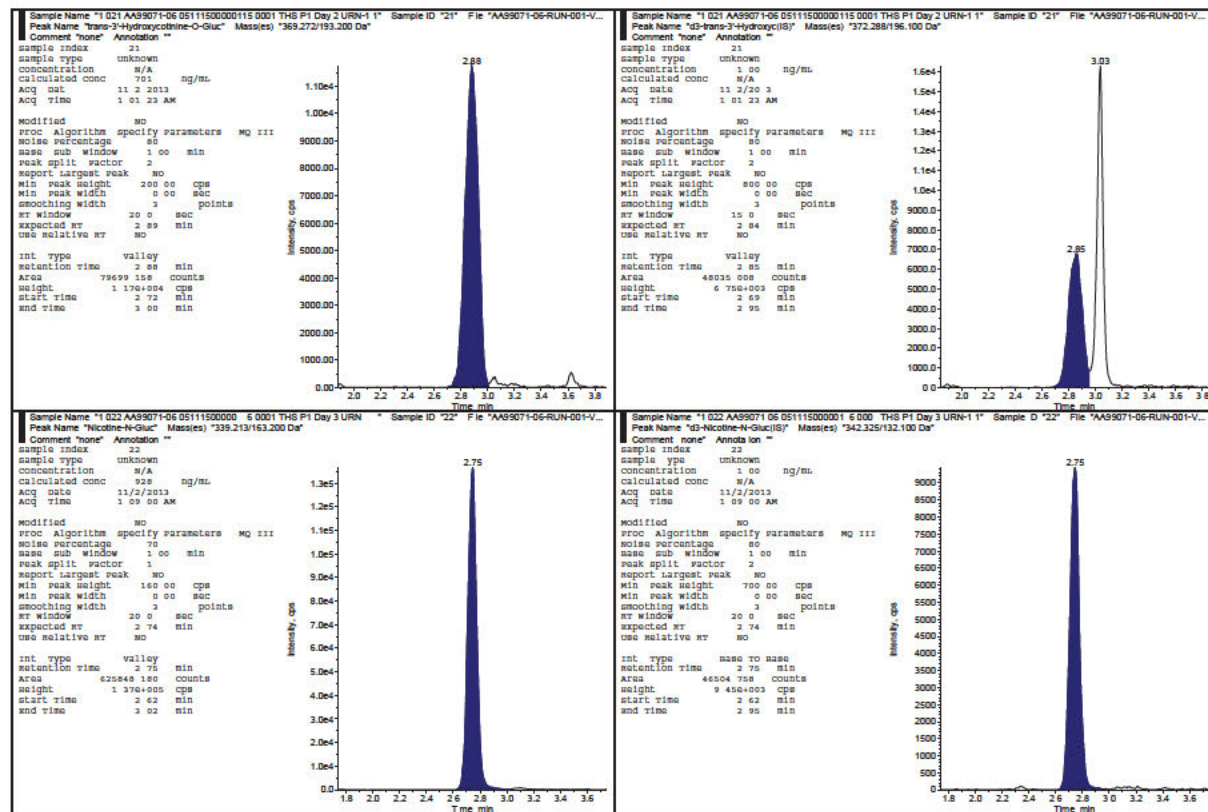


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



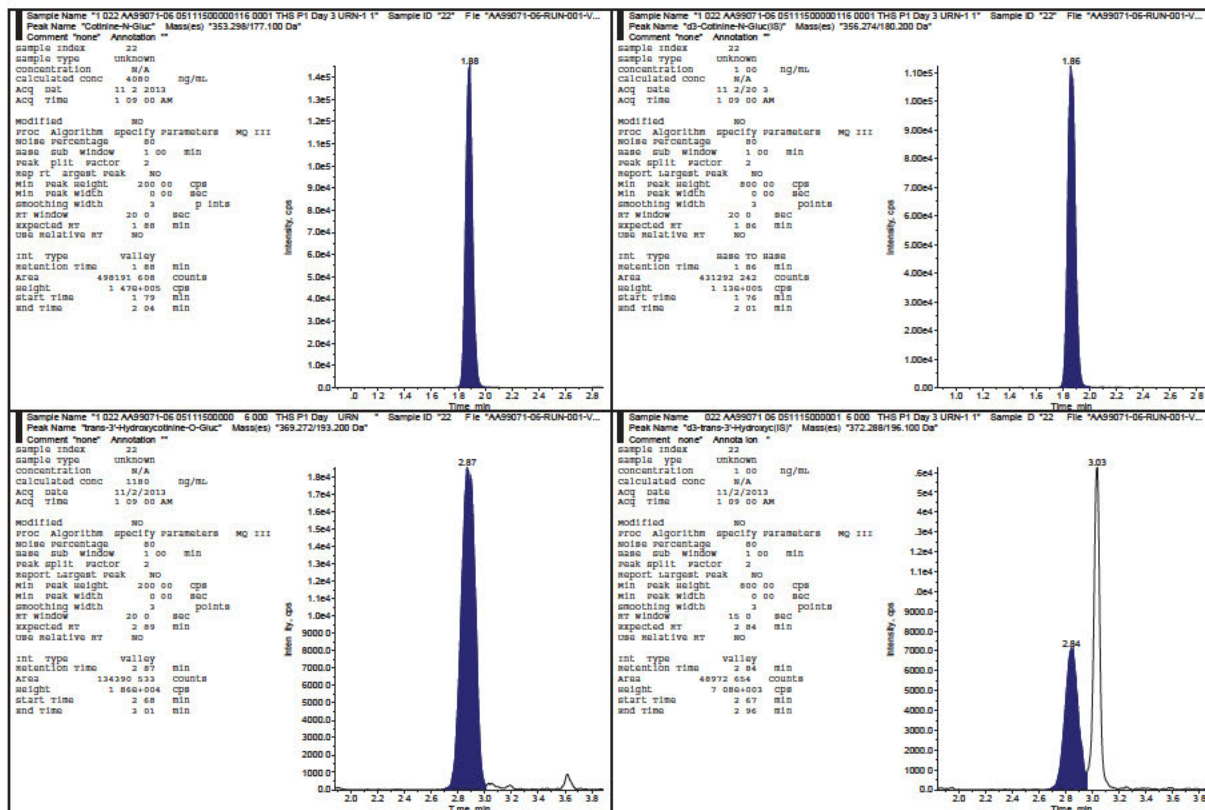


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Celerion Study AA99071-06



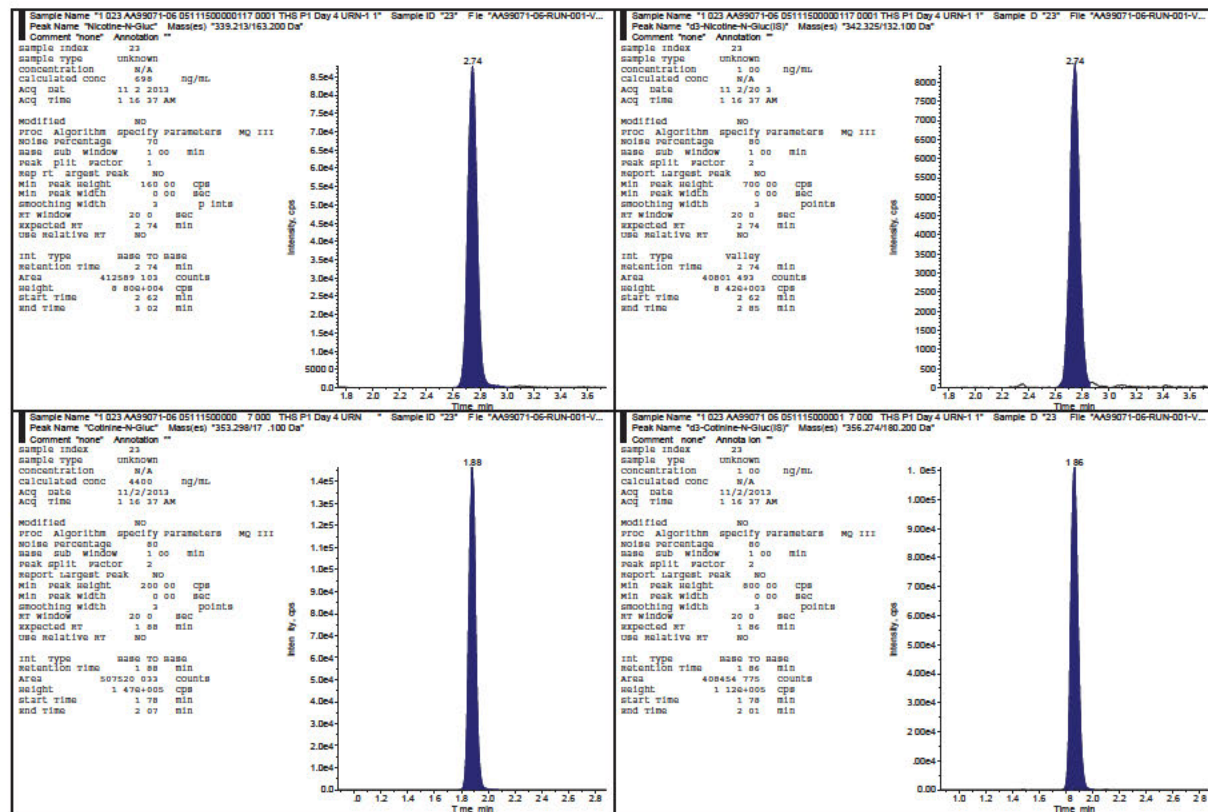


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





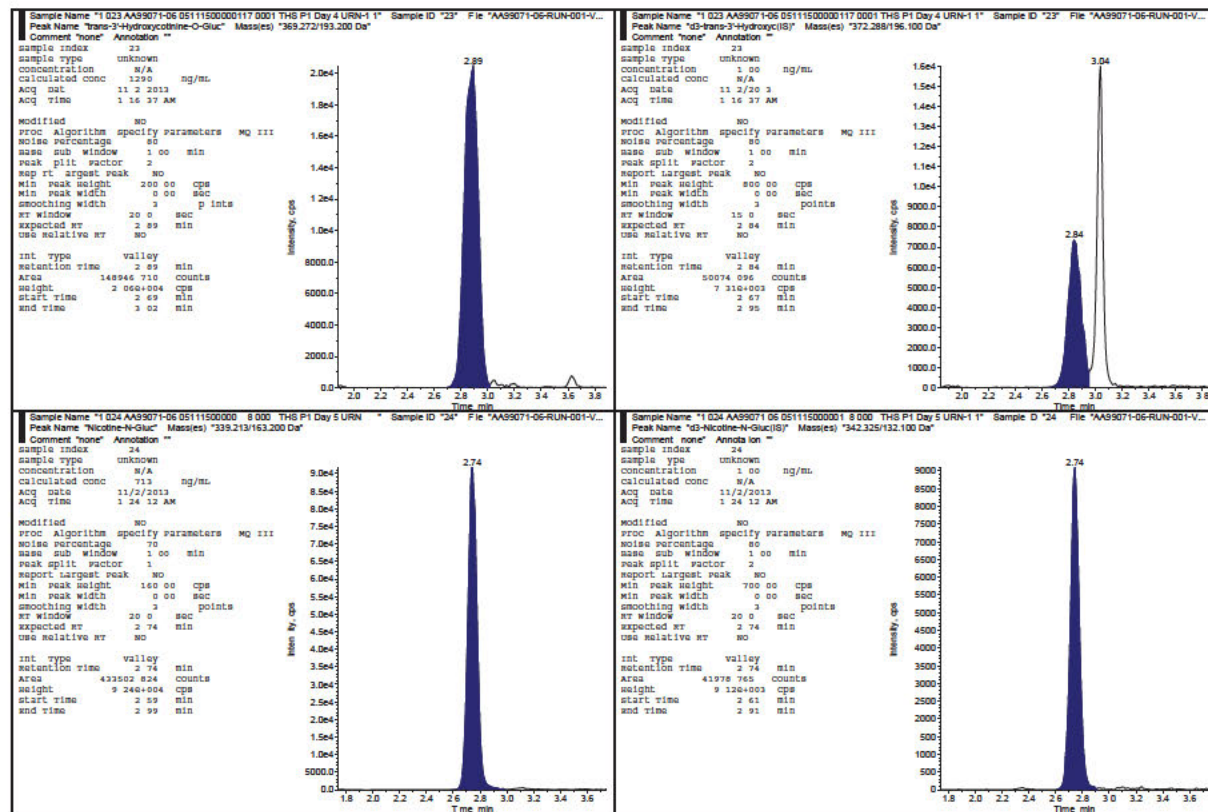
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Celerion Study AA99071-06





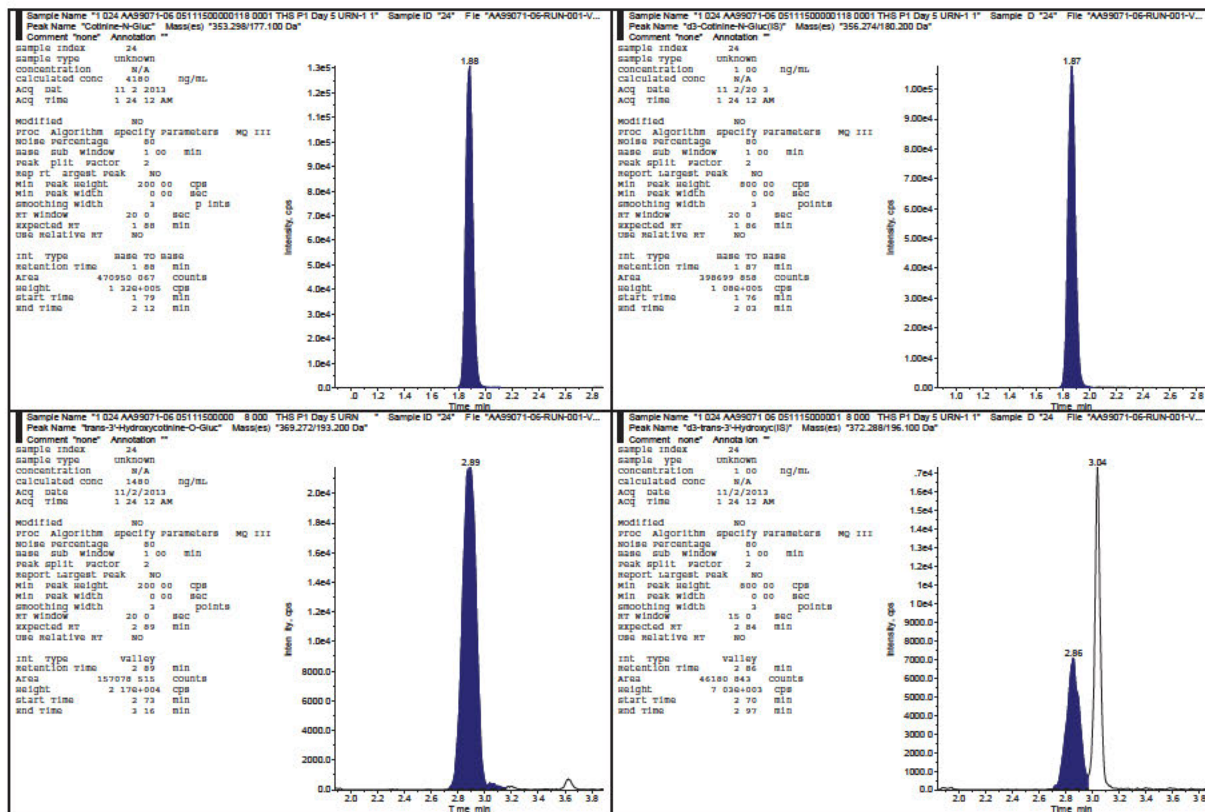


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



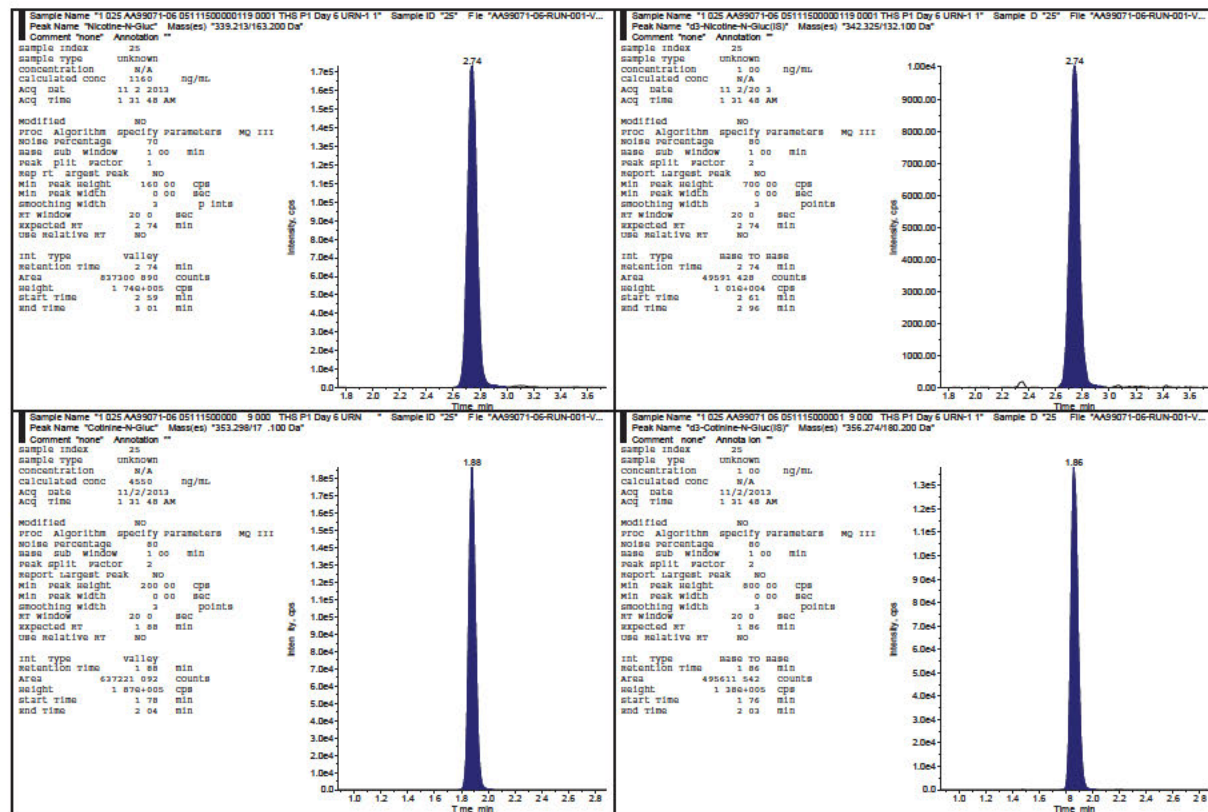


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



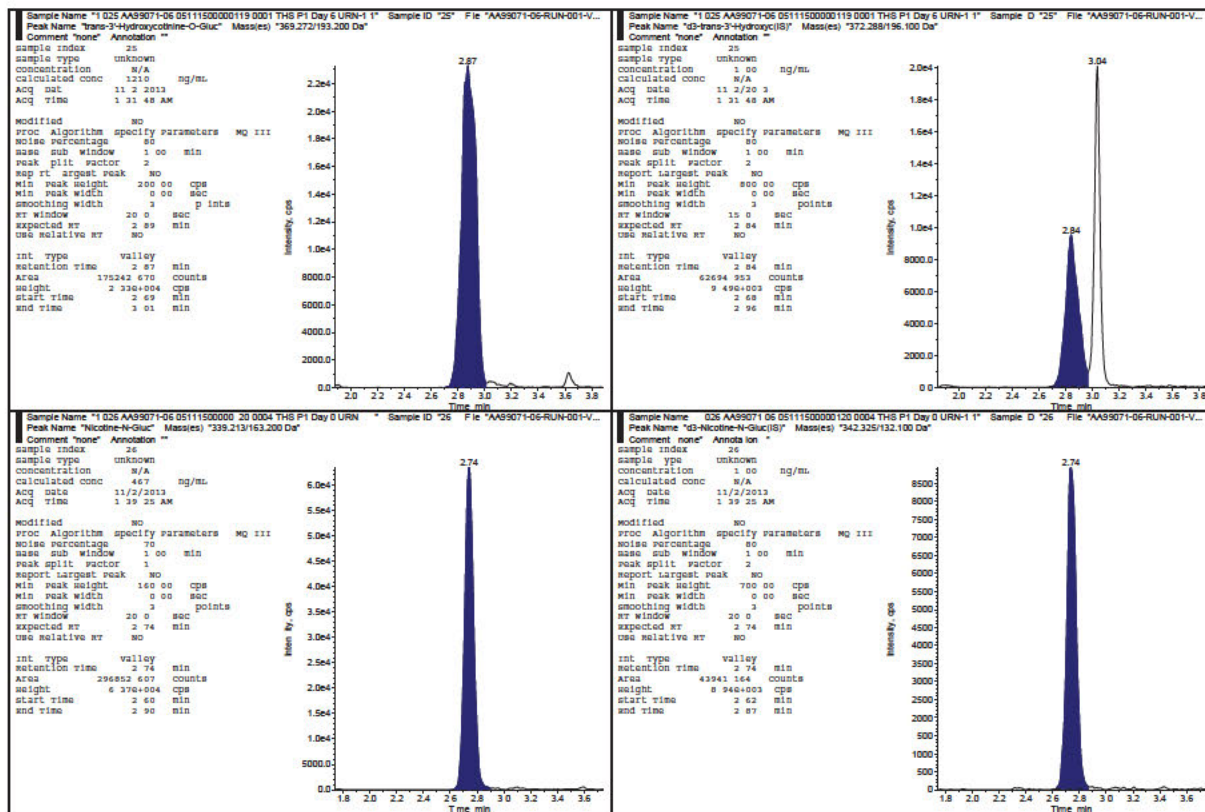


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





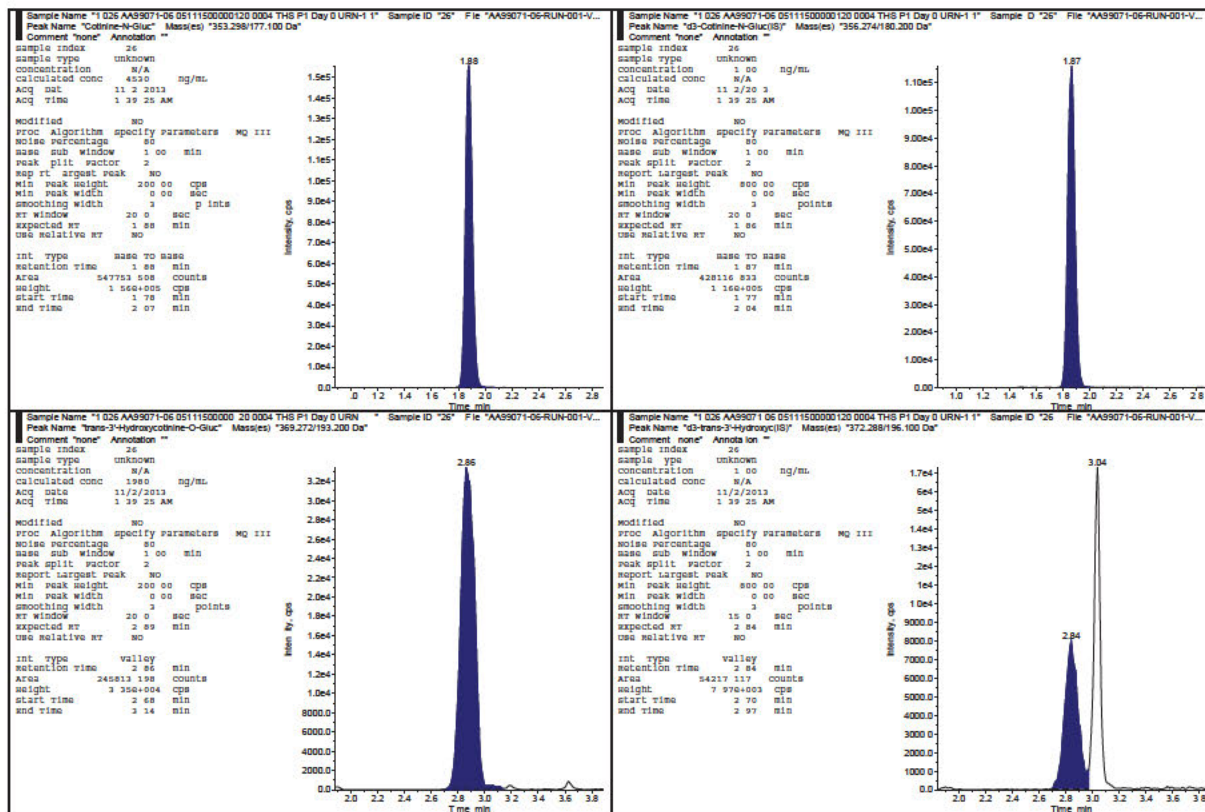
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





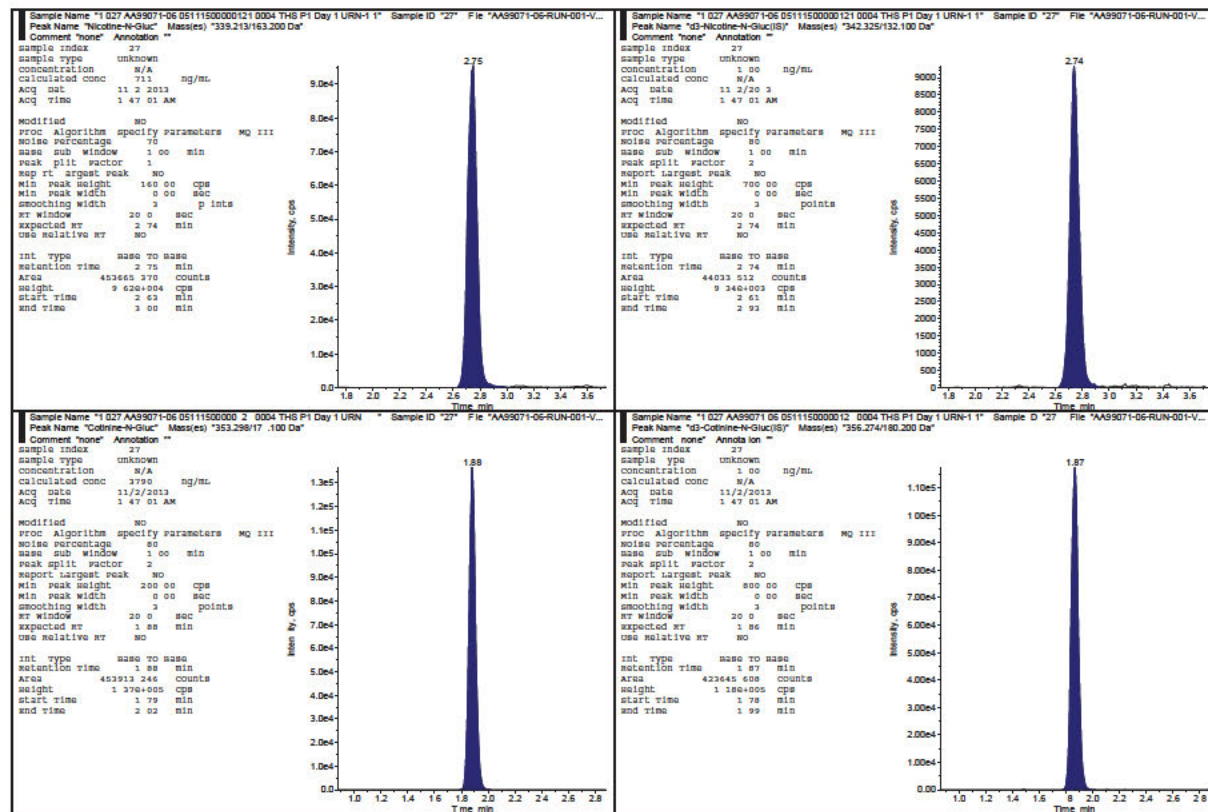


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



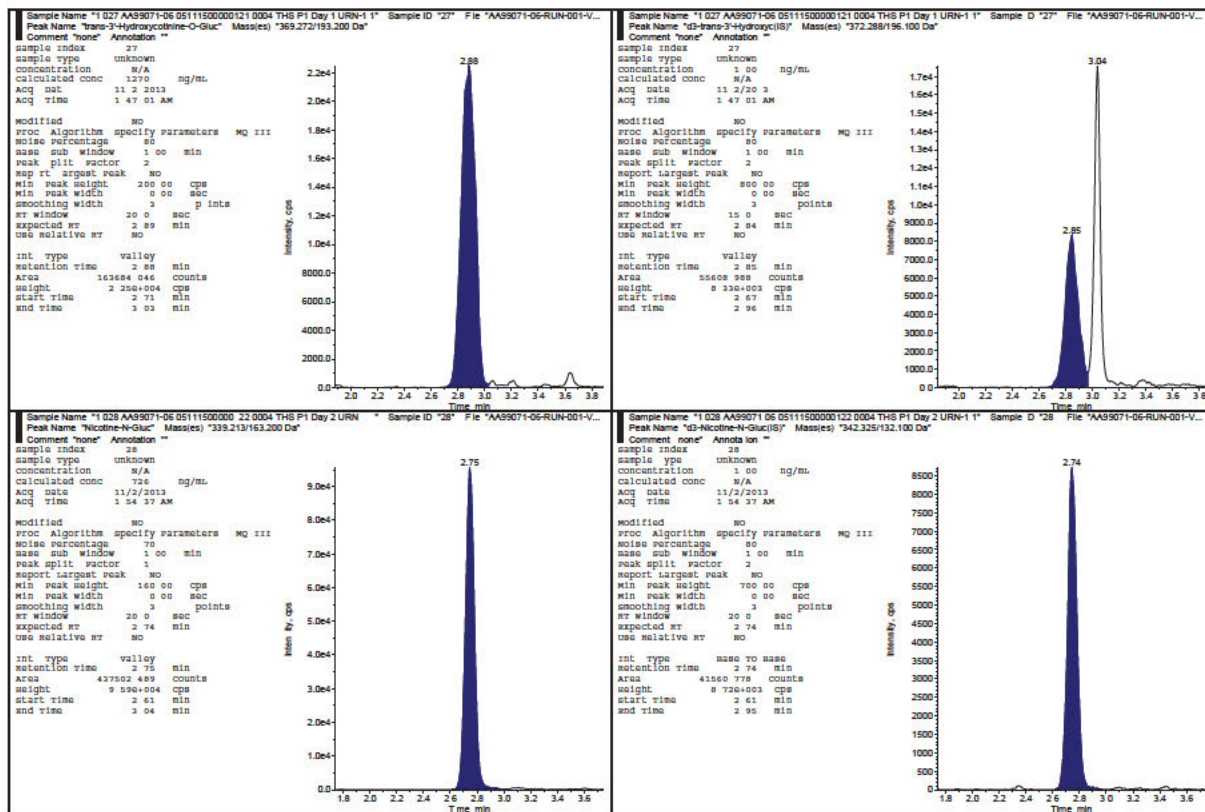


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celentron Study AA99071-06





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**Top Left Chromatogram:** Sample Name "1 Q28 AA99071-06 0511150000122 0004 THS P1 Day 2 URN-1" Sample ID "28" File "AA99071-06-RUN-001-V...". Peak Name "Cotinine-O-Gluc" Mass(es) "353.238/177.100 Da".

Sample Index	Sample Type	Unknown
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2	unknown	
3	unknown	
4	unknown	
5	unknown	
6	unknown	
7	unknown	
8	unknown	
9	unknown	
10	unknown	
11	unknown	
12	unknown	
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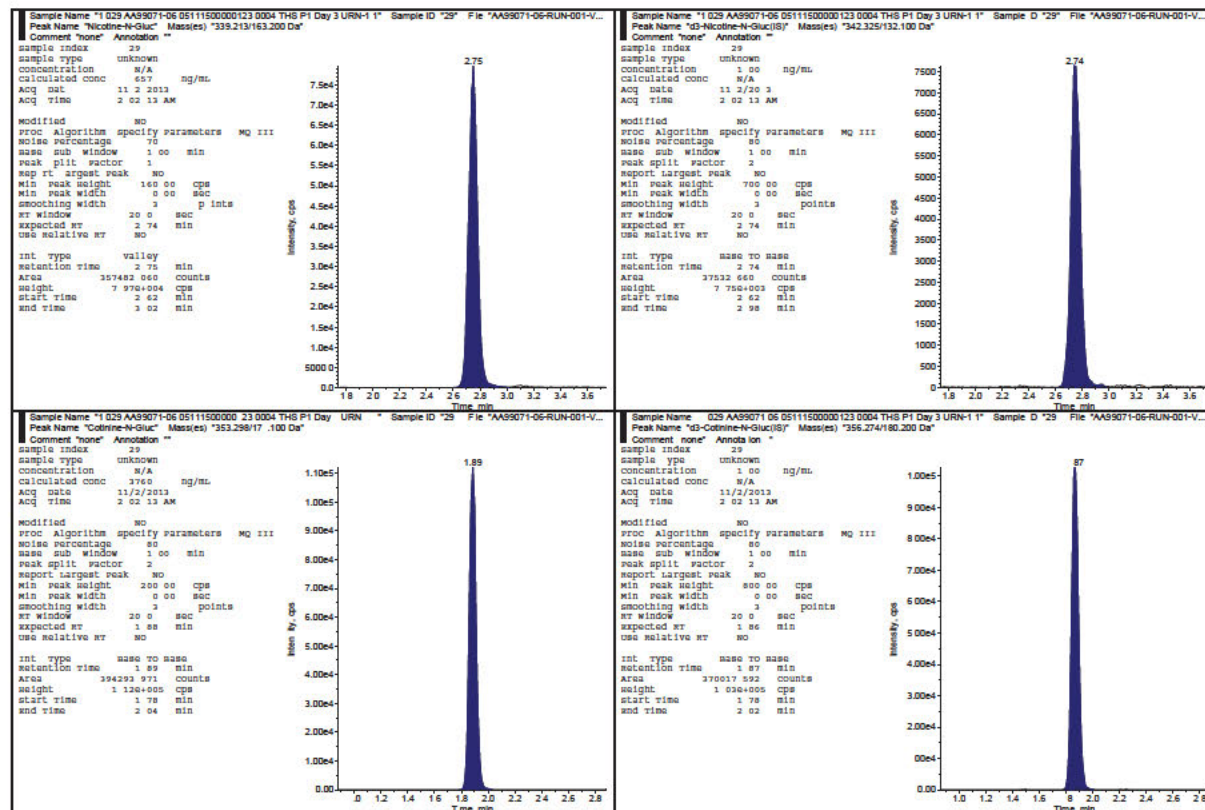
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Sample Index	Sample Type	Unknown
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4	unknown	
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7	unknown	
8	unknown	
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35	unknown	
36	unknown	
37	unknown	



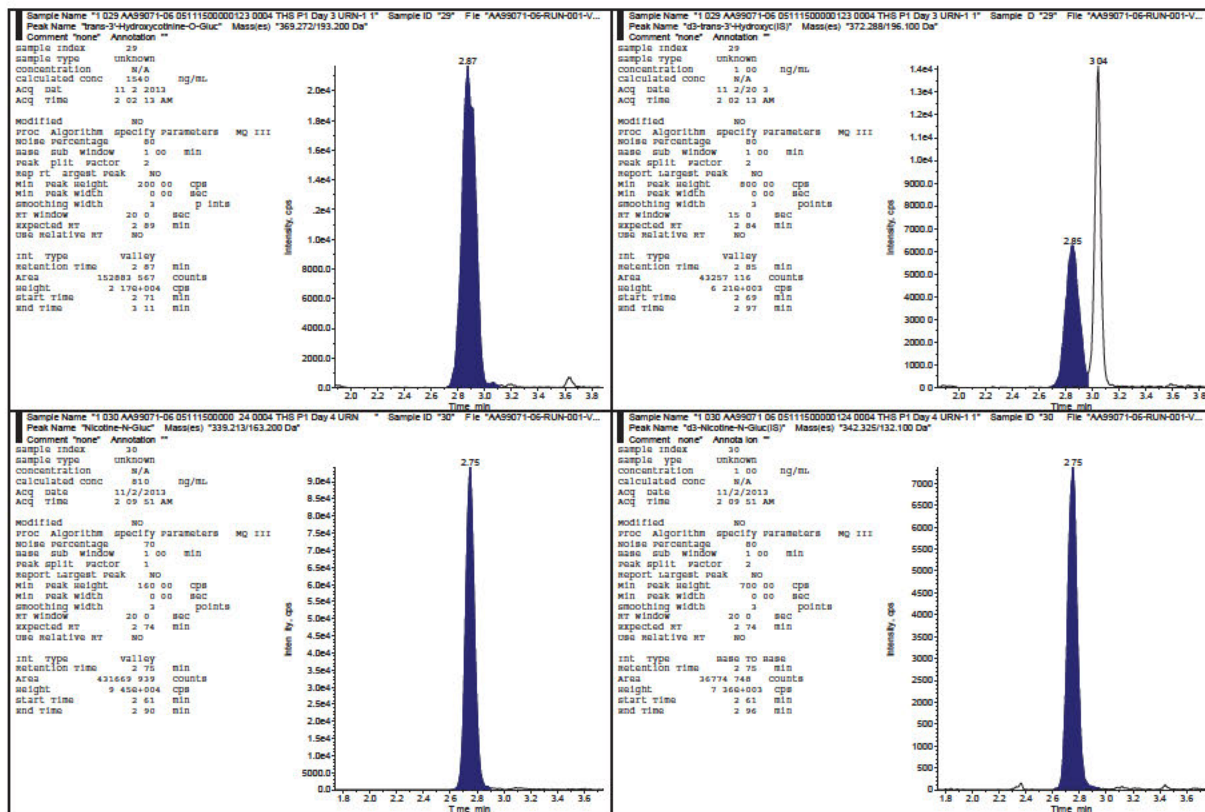


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



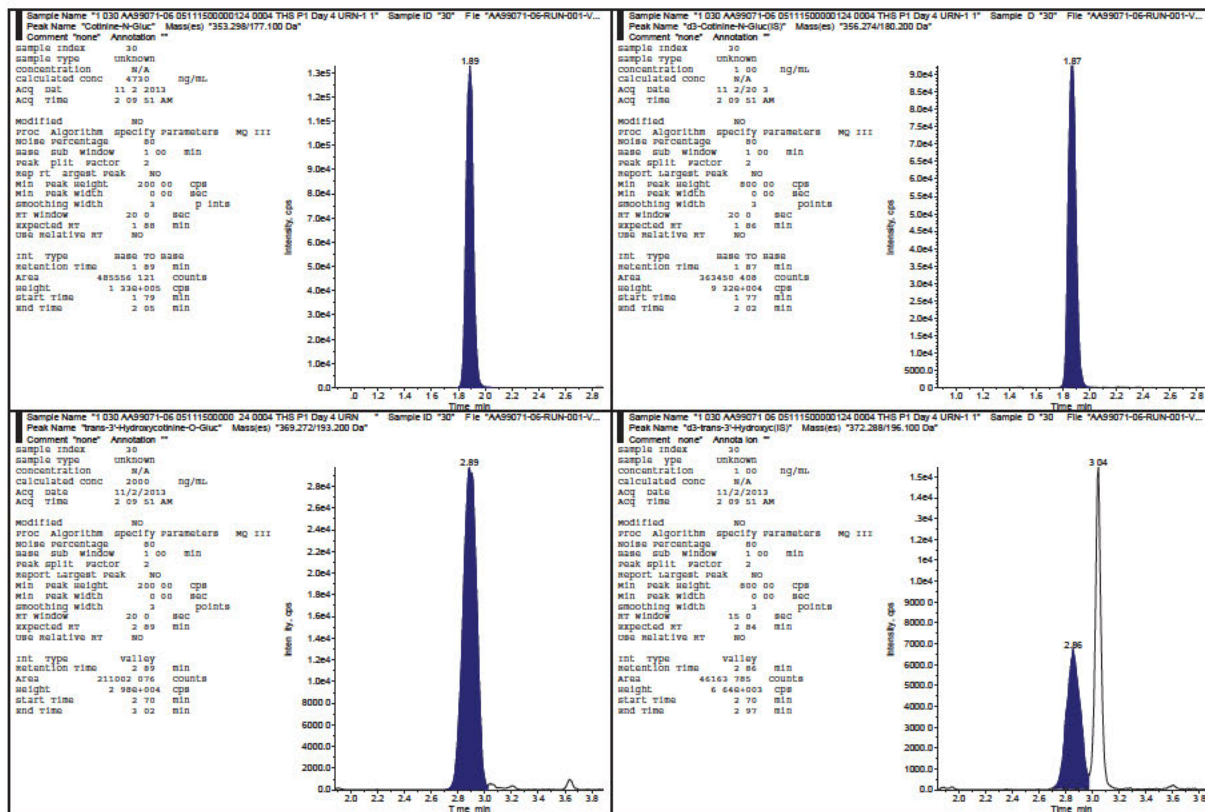


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



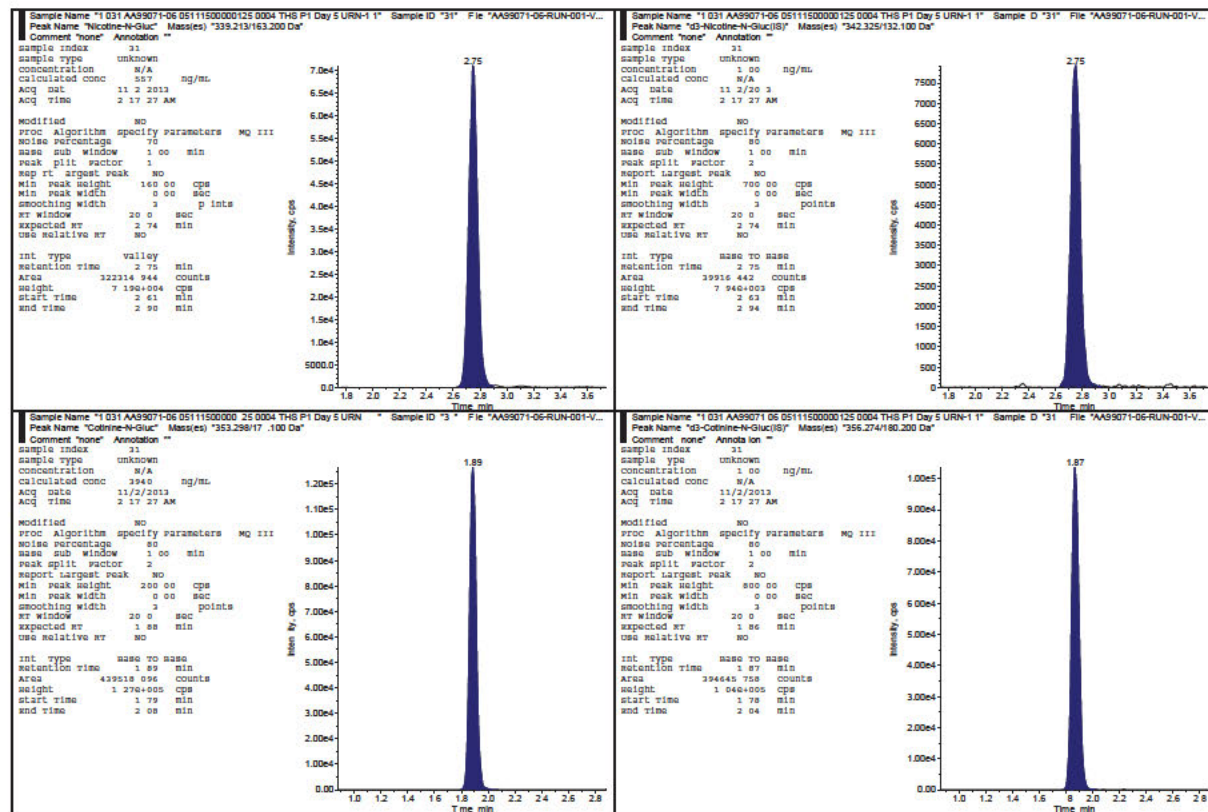


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





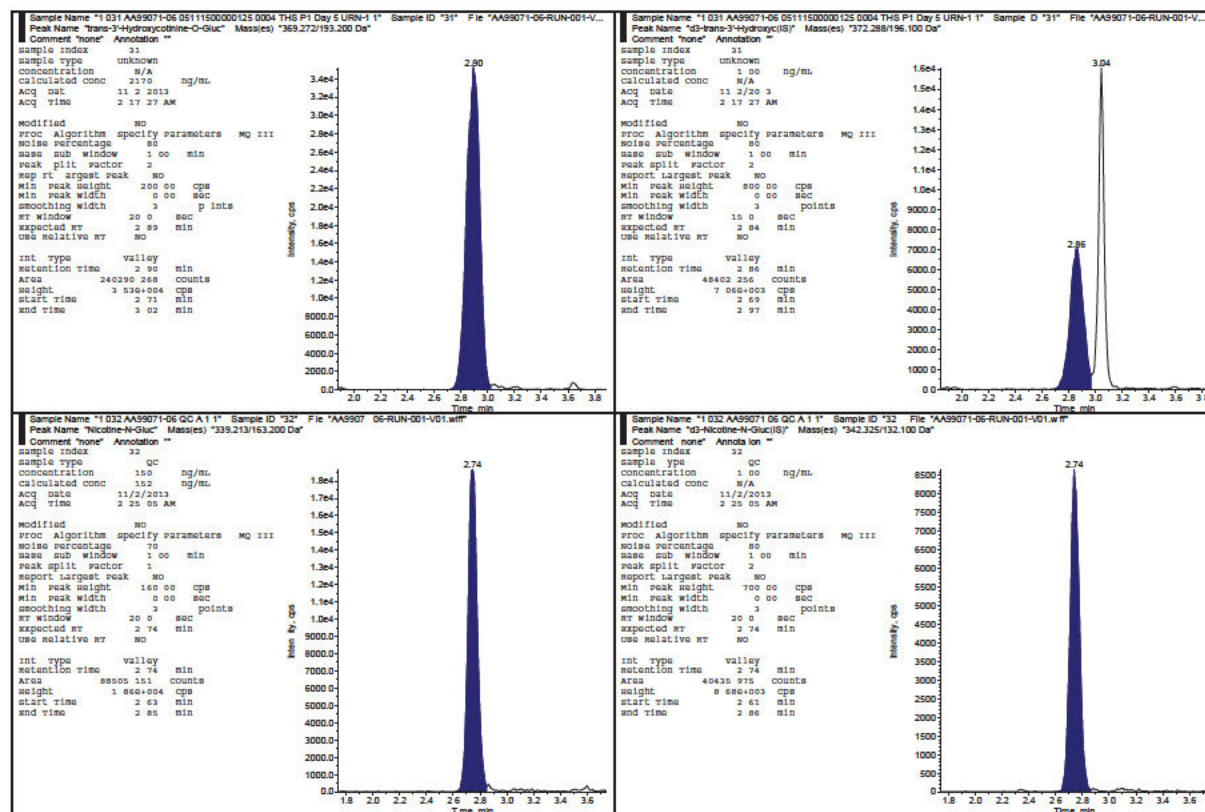
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





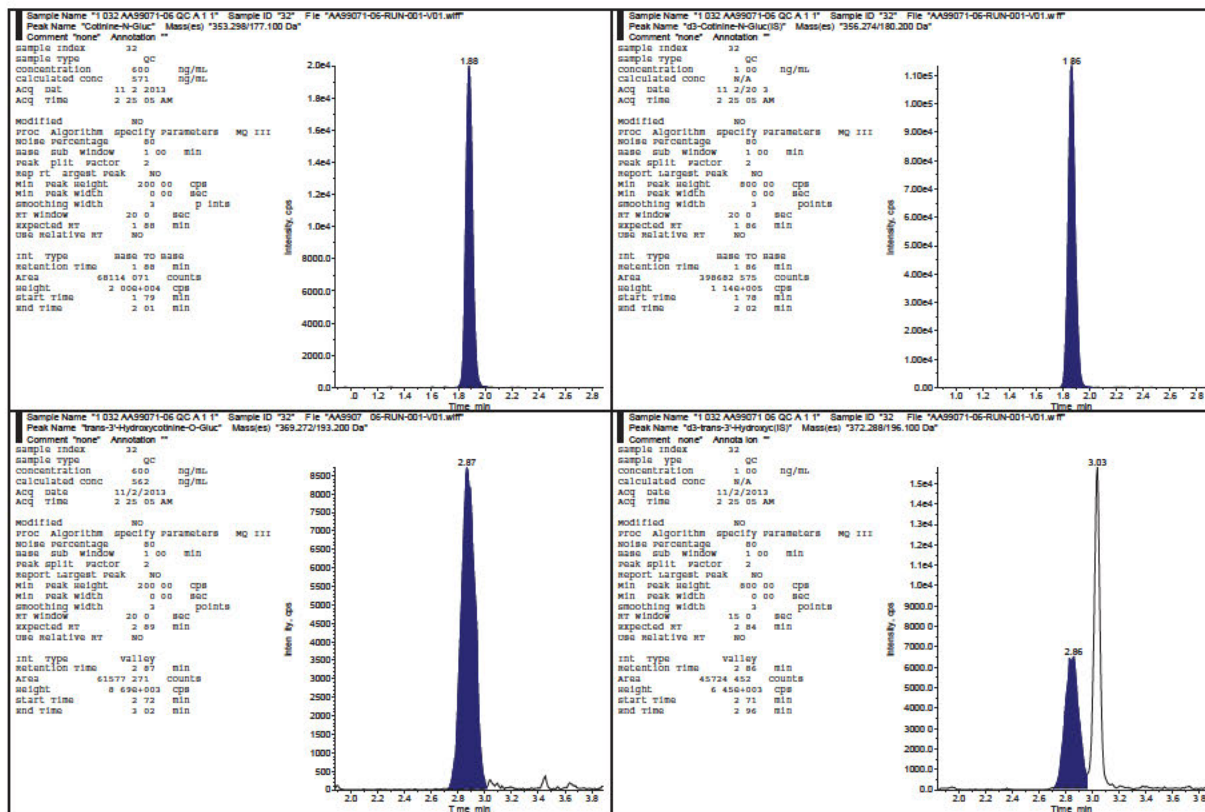


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



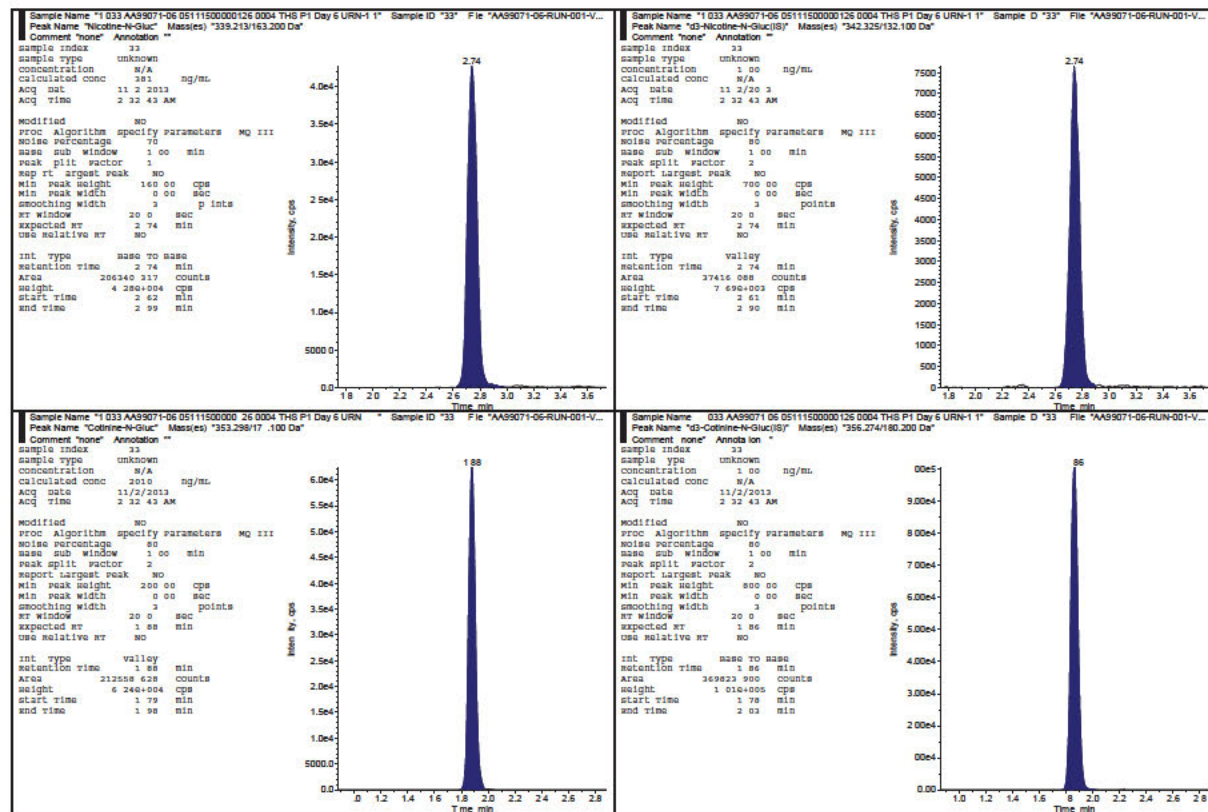


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



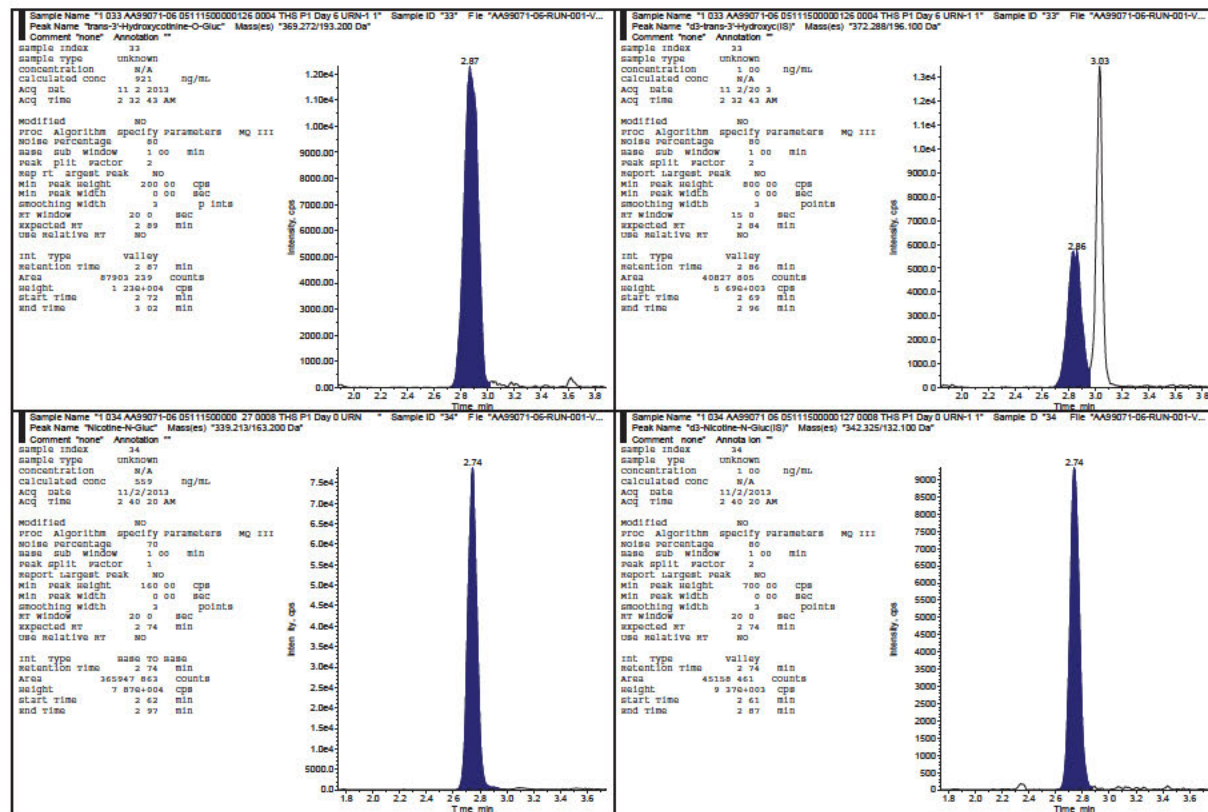


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





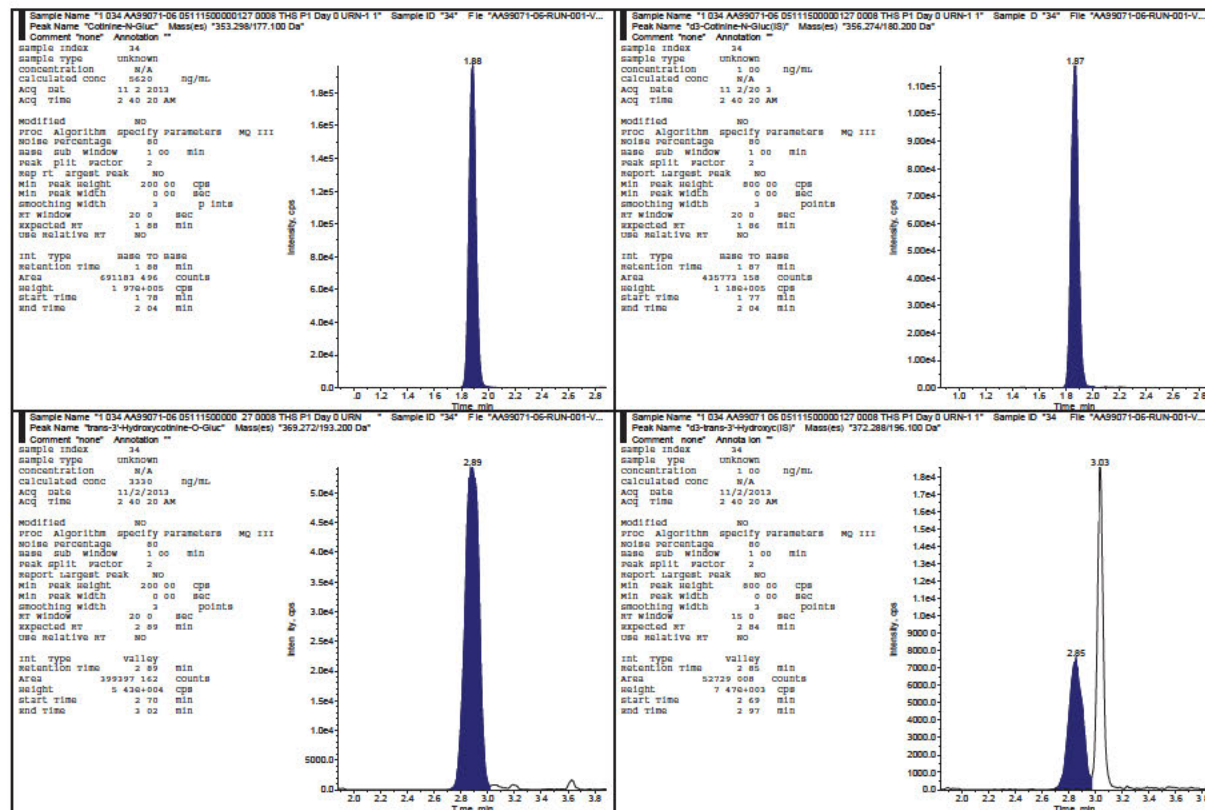
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





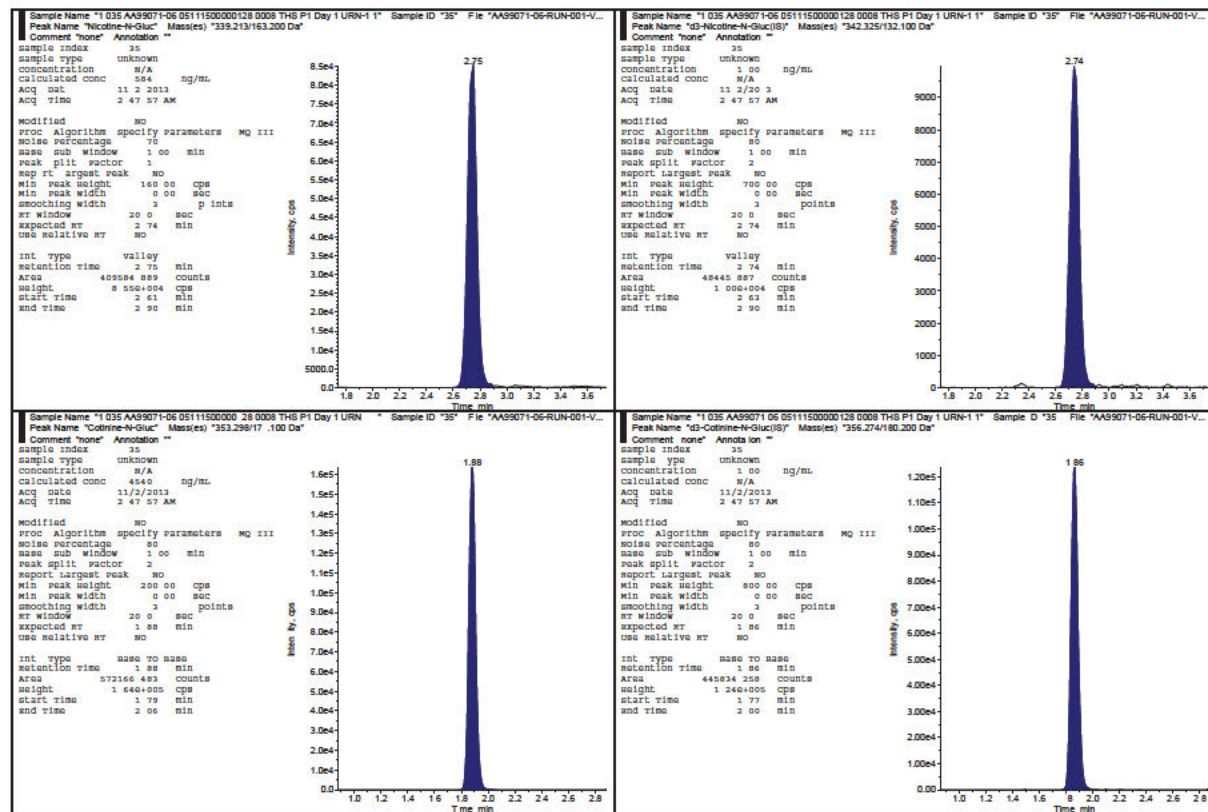


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



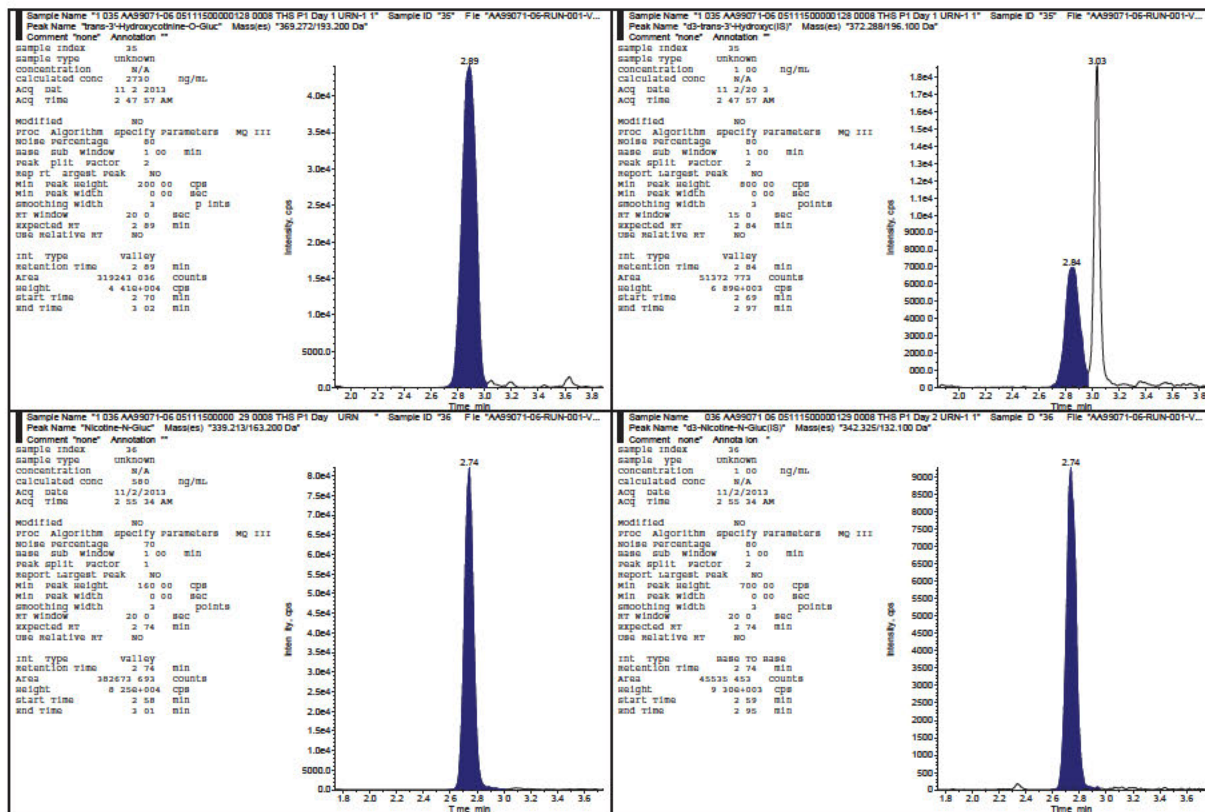


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





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**Top Left Chromatogram:**

Sample Name: "1 036 AA93071-06 051150000129 0008 THIS P1 Day 2 URN+1 1" Sample ID: "36" File: "AA93071-06-RUN-001-V..."  
 Peak Name: "Cotinine-N-Gluc" Mass(es): "353.298/177.100 Da"  
 Comment: "none" Annotation: ""

sample index	36
sample type	unknown
concentration	N/A
calculated conc	41600 ng/mL
Acq date	11/2/2013
Acq time	2 55 34 AM

Modified: NO  
 proc Algorithm: specify parameters MQ III  
 noise percentage: 80  
 base sub window: 1 00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 200 cps  
 min peak width: 0 00 sec  
 smoothing width: 3 points  
 rt window: 20 0 sec  
 expected rt: 1 88 min  
 use relative rt: NO

int type: base to base  
 retention time: 1 88 min  
 Area: 501666 329 counts  
 height: 1 40e+005 cps  
 start time: 1 78 min  
 end time: 2 05 min

Intensity, cps vs. Time, min. Peak at 1.88 min.

**Top Right Chromatogram:**

Sample Name: "1 036 AA93071-06 051150000129 0008 THIS P1 Day 2 URN+1 1" Sample ID: "36" File: "AA93071-06-RUN-001-V..."  
 Peak Name: "d3-Cotinine-N-Gluc(18)" Mass(es): "356.274/180.200 Da"  
 Comment: "none" Annotation: ""

sample index	36
sample type	unknown
concentration	1 50 ng/mL
calculated conc	N/A
Acq date	11/2/2013
Acq time	2 55 34 AM

Modified: NO  
 proc Algorithm: specify parameters MQ III  
 noise percentage: 80  
 base sub window: 1 00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 500 cps  
 min peak width: 0 00 sec  
 smoothing width: 3 points  
 rt window: 20 0 sec  
 expected rt: 1 86 min  
 use relative rt: NO

int type: base to base  
 retention time: 1 86 min  
 Area: 432907 100 counts  
 height: 1 12e+005 cps  
 start time: 1 76 min  
 end time: 2 02 min

Intensity, cps vs. Time, min. Peak at 1.86 min.

**Bottom Left Chromatogram:**

Sample Name: "1 036 AA93071-06 051150000129 0008 THIS P1 Day 2 URN+1 1" Sample ID: "36" File: "AA93071-06-RUN-001-V..."  
 Peak Name: "trans-3-Hydroxycotinine-O-Gluc" Mass(es): "369.272/193.200 Da"  
 Comment: "none" Annotation: ""

sample index	36
sample type	unknown
concentration	N/A
calculated conc	2080 ng/mL
Acq date	11/2/2013
Acq time	2 55 34 AM

Modified: NO  
 proc Algorithm: specify parameters MQ III  
 noise percentage: 80  
 base sub window: 1 00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 200 cps  
 min peak width: 0 00 sec  
 smoothing width: 3 points  
 rt window: 20 0 sec  
 expected rt: 2 89 min  
 use relative rt: NO

int type: valley  
 retention time: 2 88 min  
 Area: 240339 803 counts  
 height: 3 28e+004 cps  
 start time: 2 68 min  
 end time: 3 01 min

Intensity, cps vs. Time, min. Peak at 2.88 min.

**Bottom Right Chromatogram:**

Sample Name: "1 036 AA93071-06 051150000129 0008 THIS P1 Day 2 URN+1 1" Sample ID: "36" File: "AA93071-06-RUN-001-V..."  
 Peak Name: "d3-trans-3-Hydroxycotinine(18)" Mass(es): "372.288/196.100 Da"  
 Comment: "none" Annotation: ""

sample index	36
sample type	unknown
concentration	1 00 ng/mL
calculated conc	N/A
Acq date	11/2/2013
Acq time	2 55 34 AM

Modified: NO  
 proc Algorithm: specify parameters MQ III  
 noise percentage: 80  
 base sub window: 1 00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 500 cps  
 min peak width: 0 00 sec  
 smoothing width: 3 points  
 rt window: 15 0 sec  
 expected rt: 2 84 min  
 use relative rt: NO

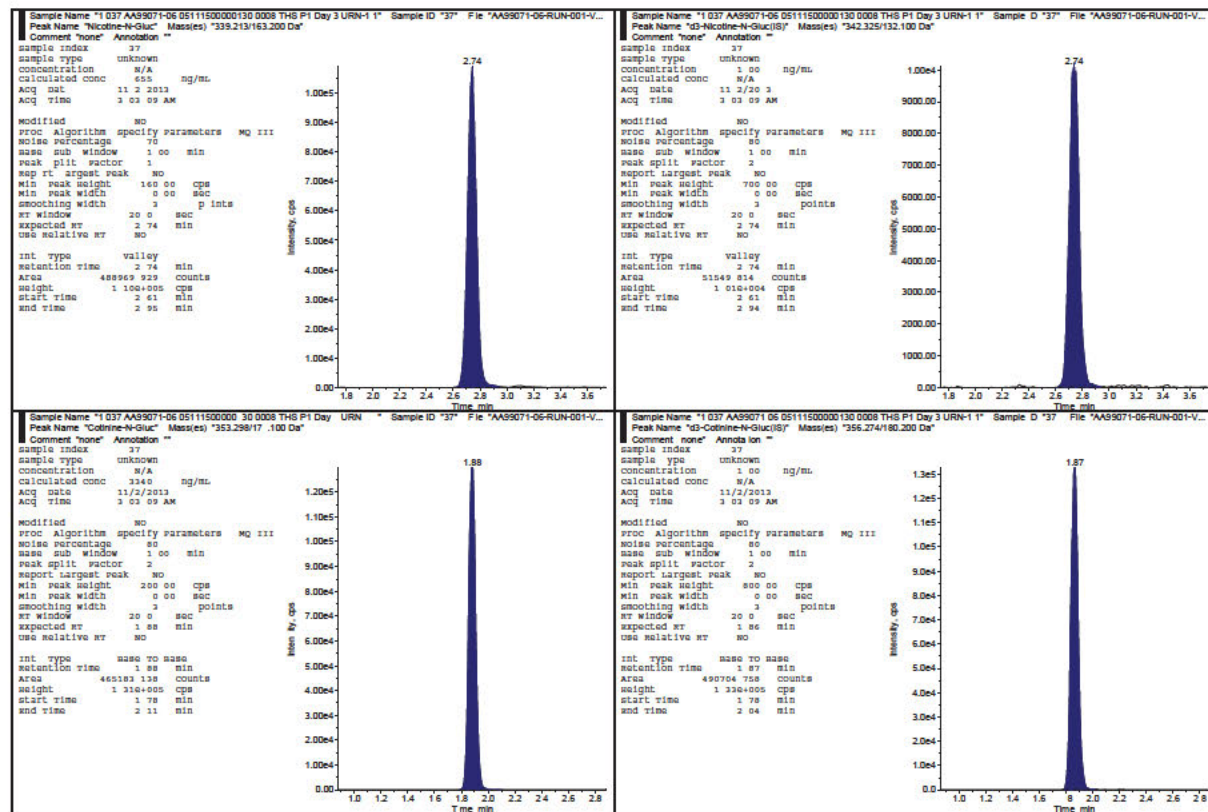
int type: valley  
 retention time: 2 84 min  
 Area: 505448 566 counts  
 height: 7 24e+003 cps  
 start time: 2 67 min  
 end time: 2 96 min

Intensity, cps vs. Time, min. Peaks at 2.84 min and 3.03 min.



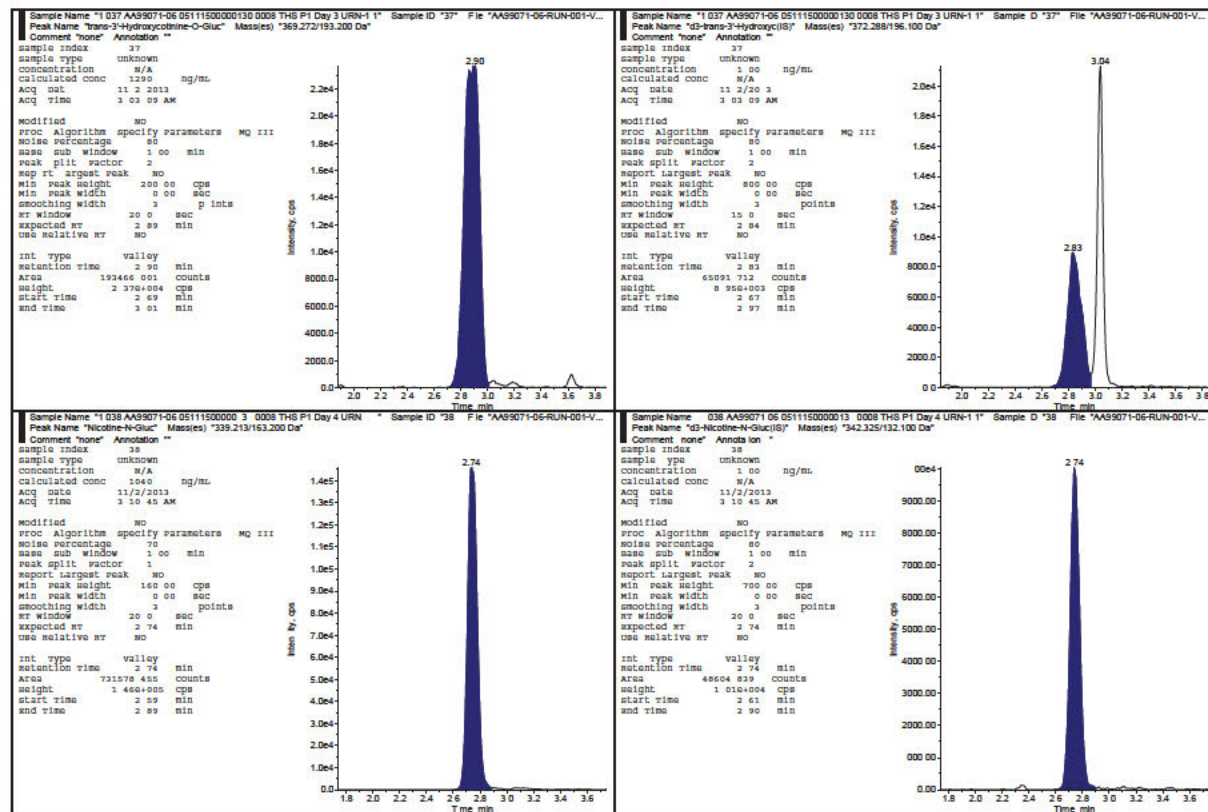


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



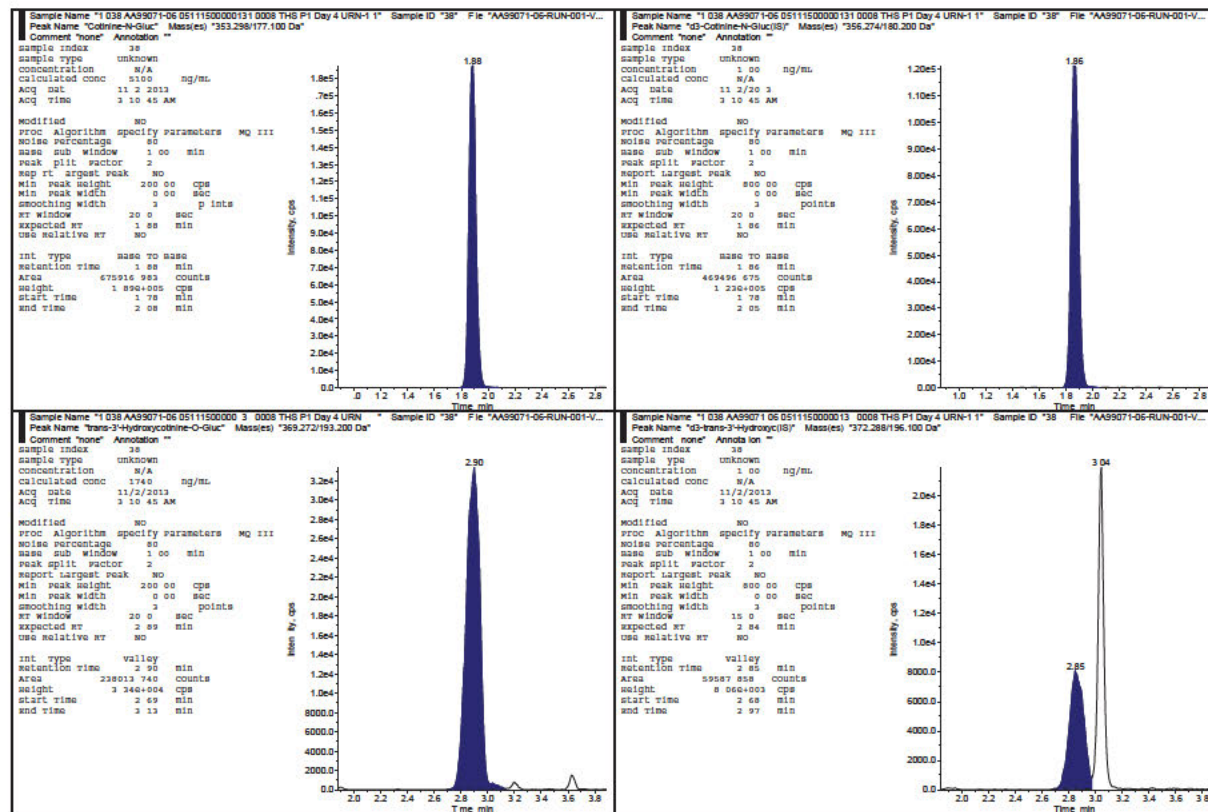


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celentron Study AA99071-06



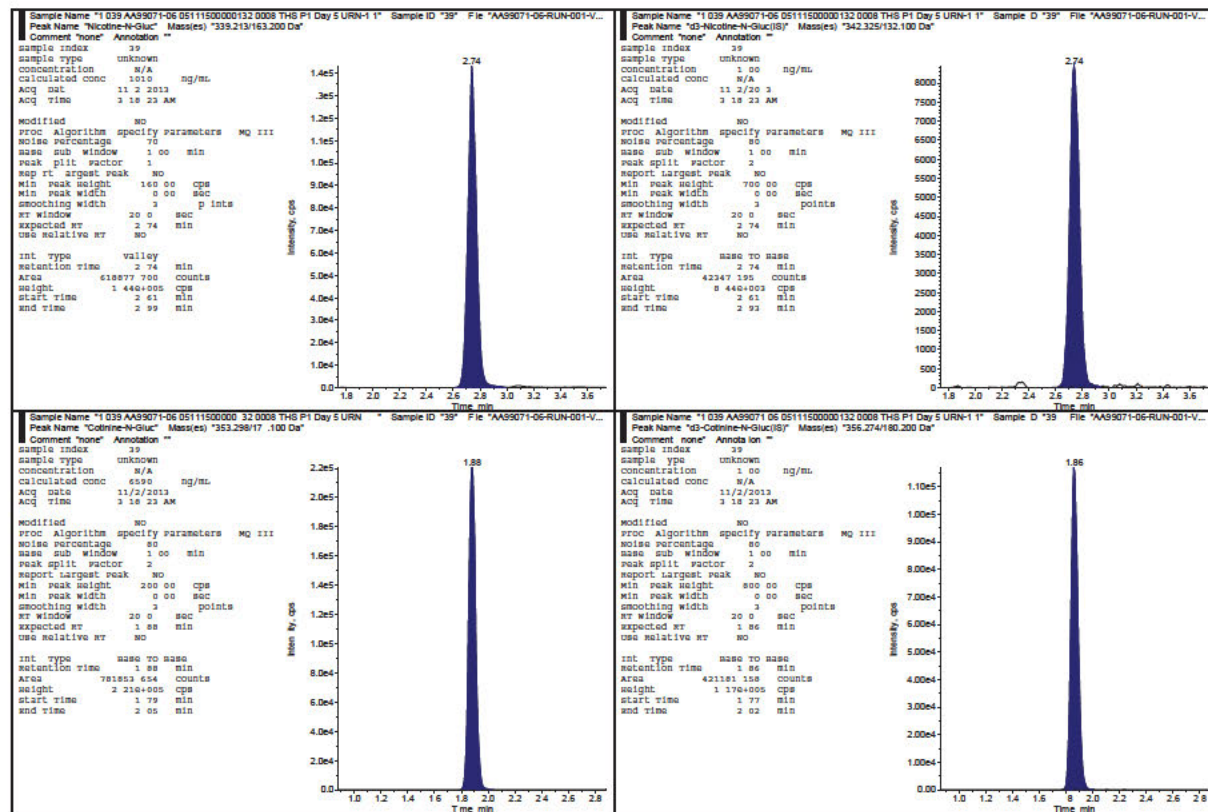


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





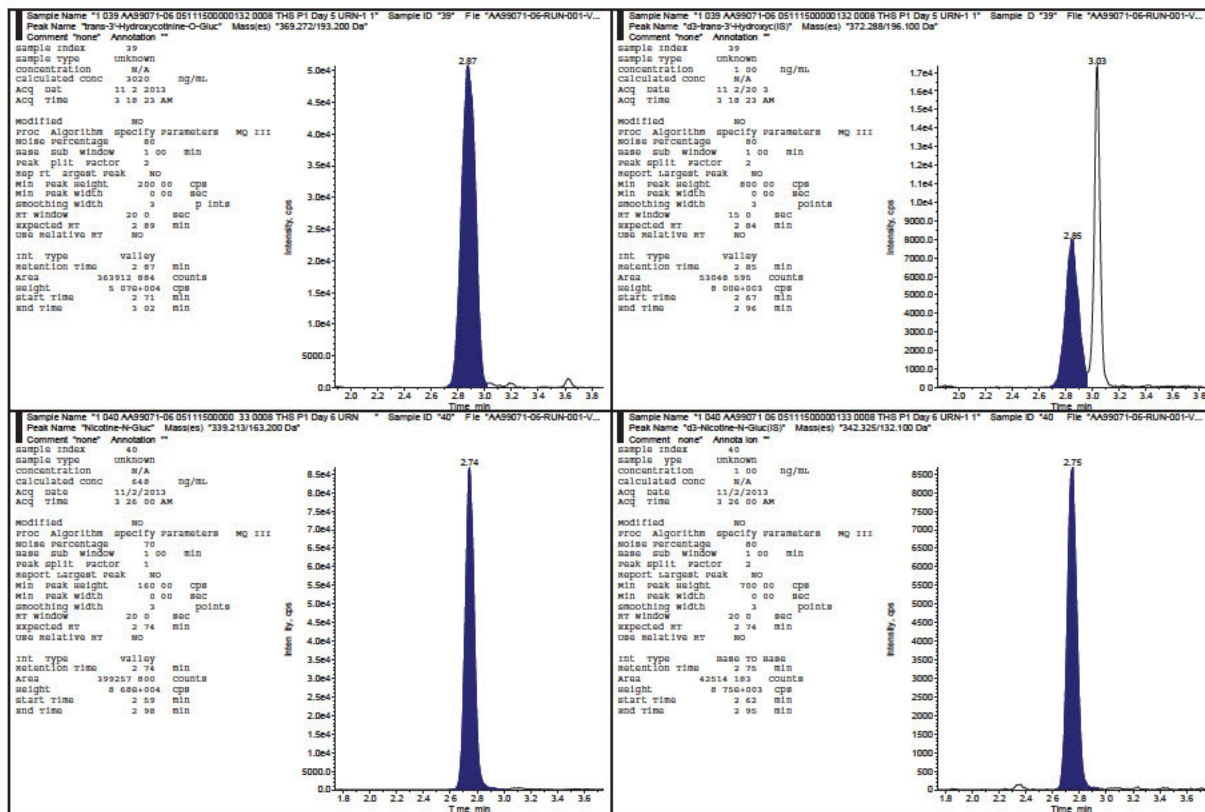
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





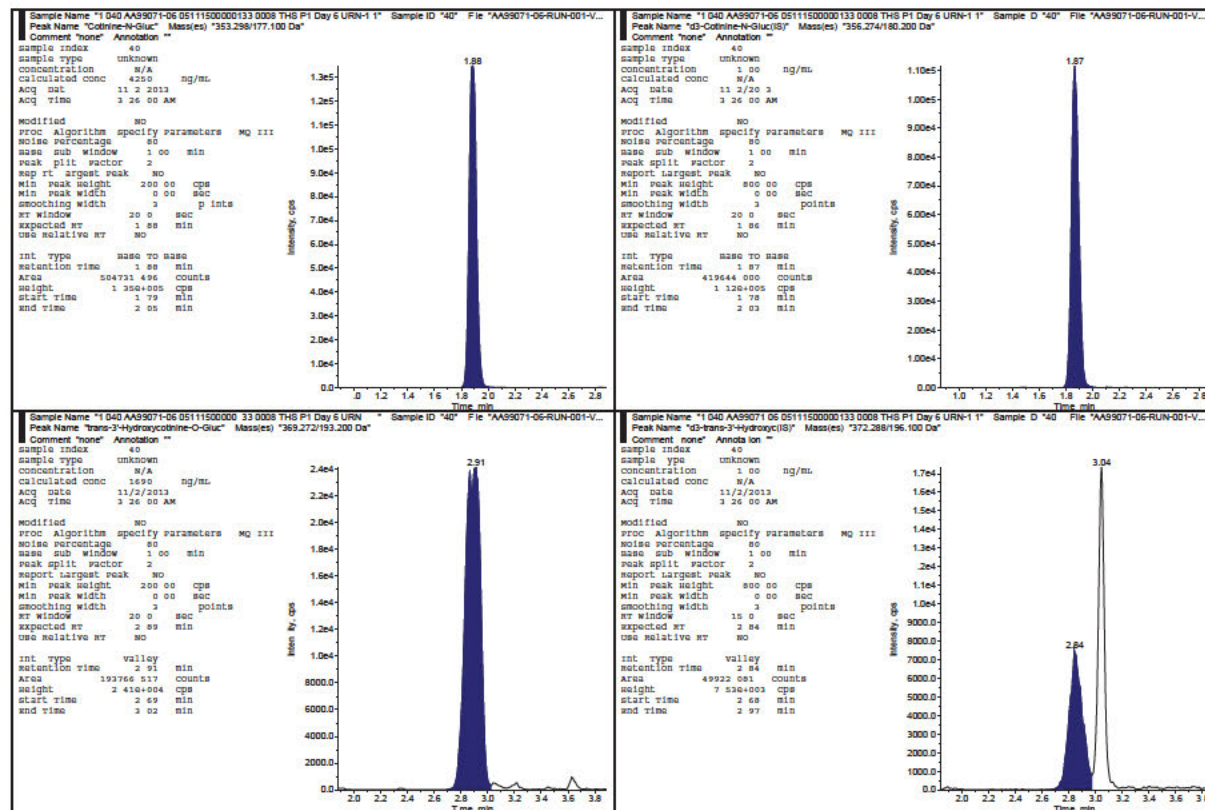


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



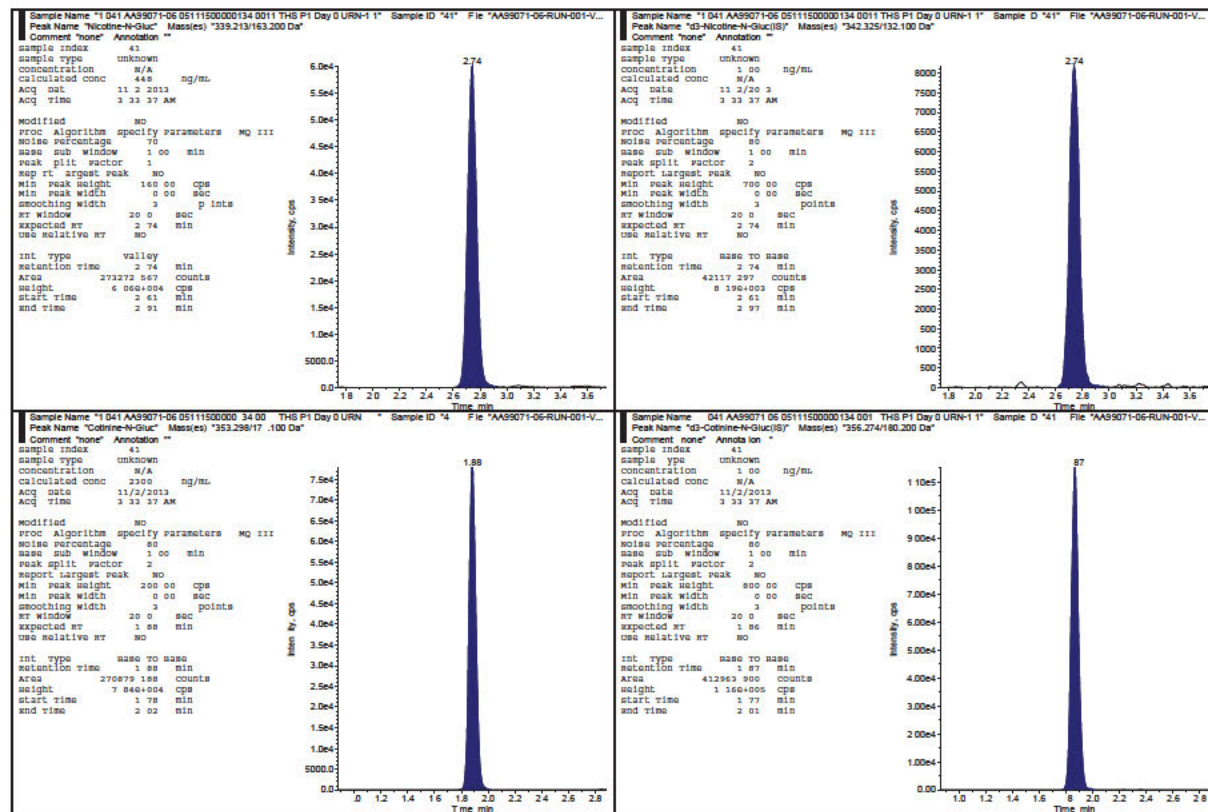


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



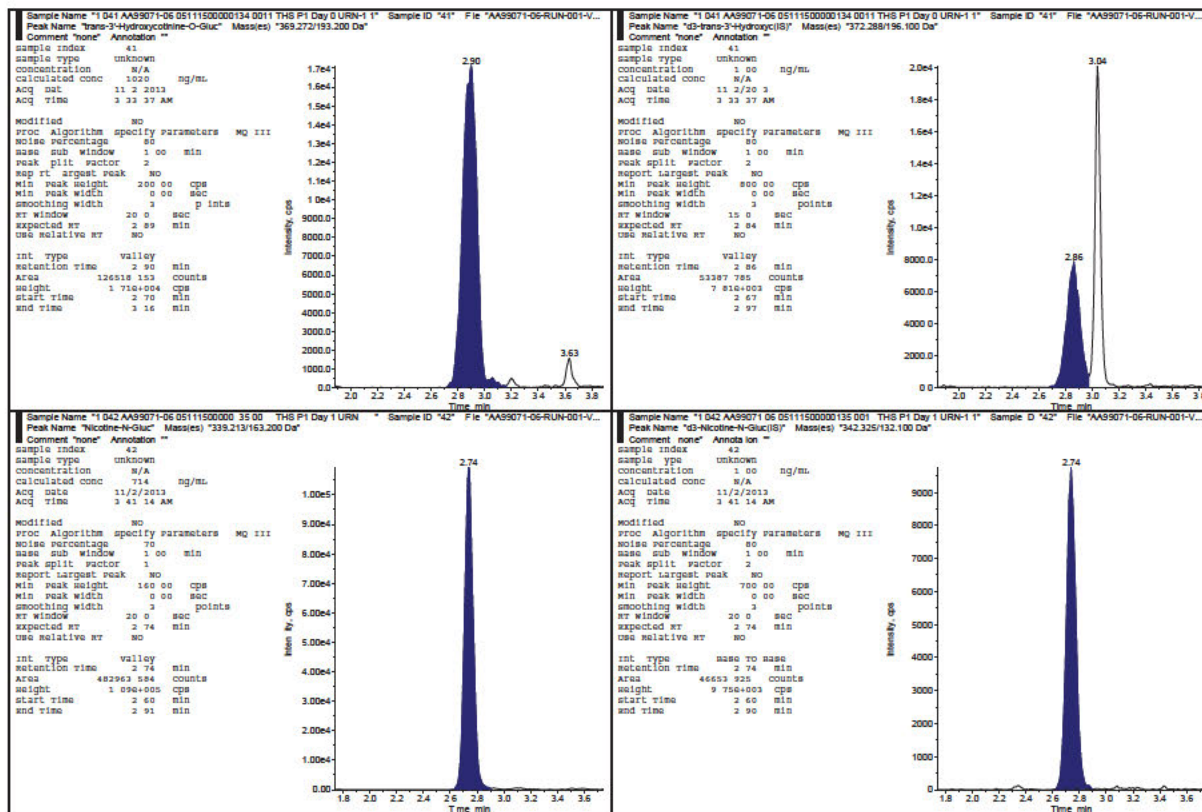


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celention Study AA99071-06

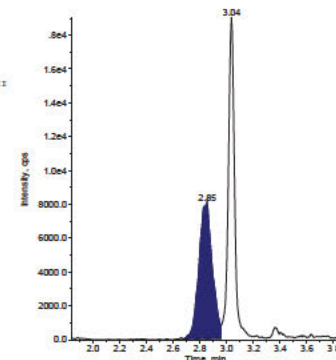






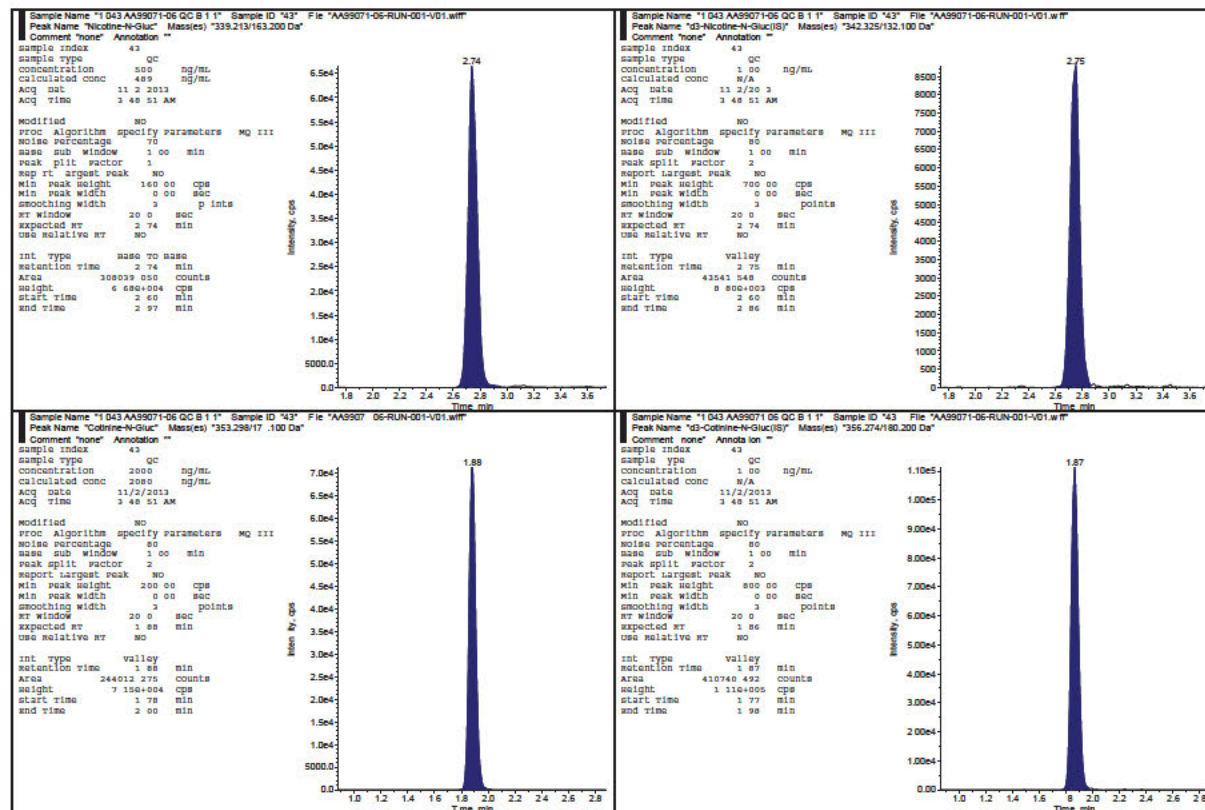
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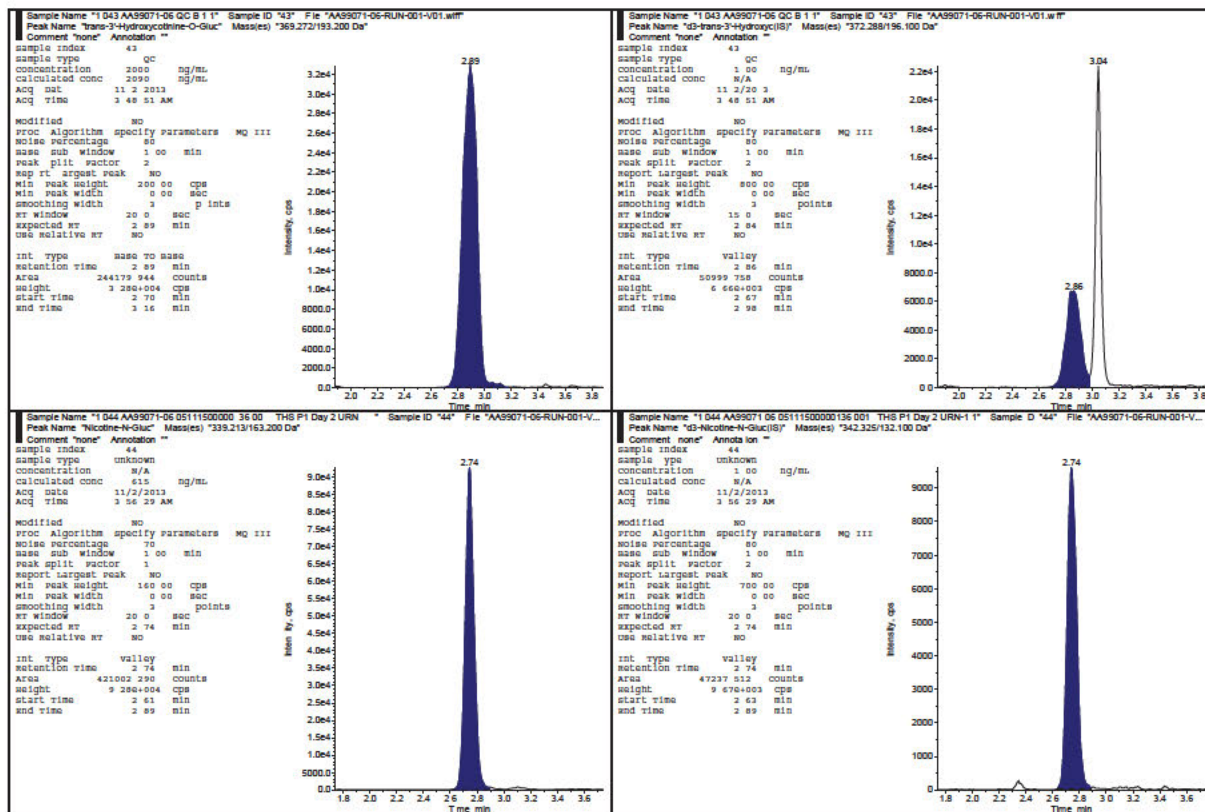


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



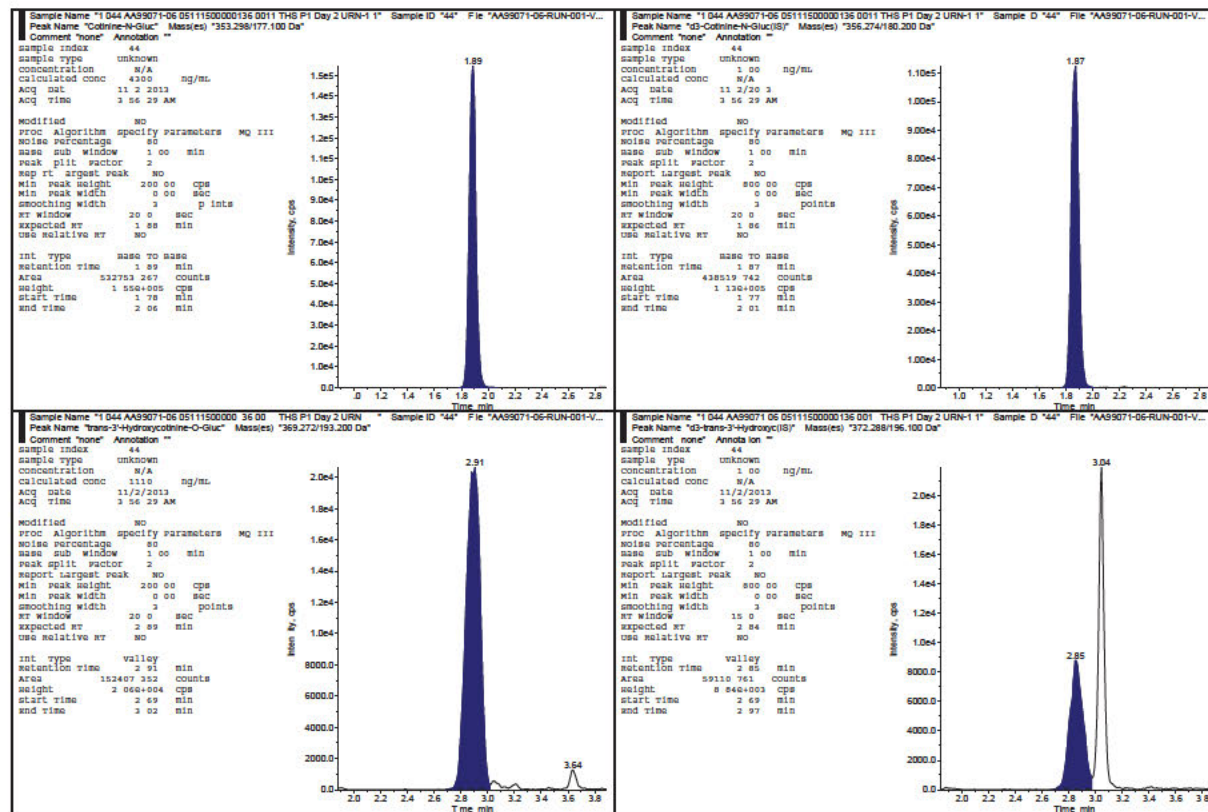


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celention Study AA99071-06





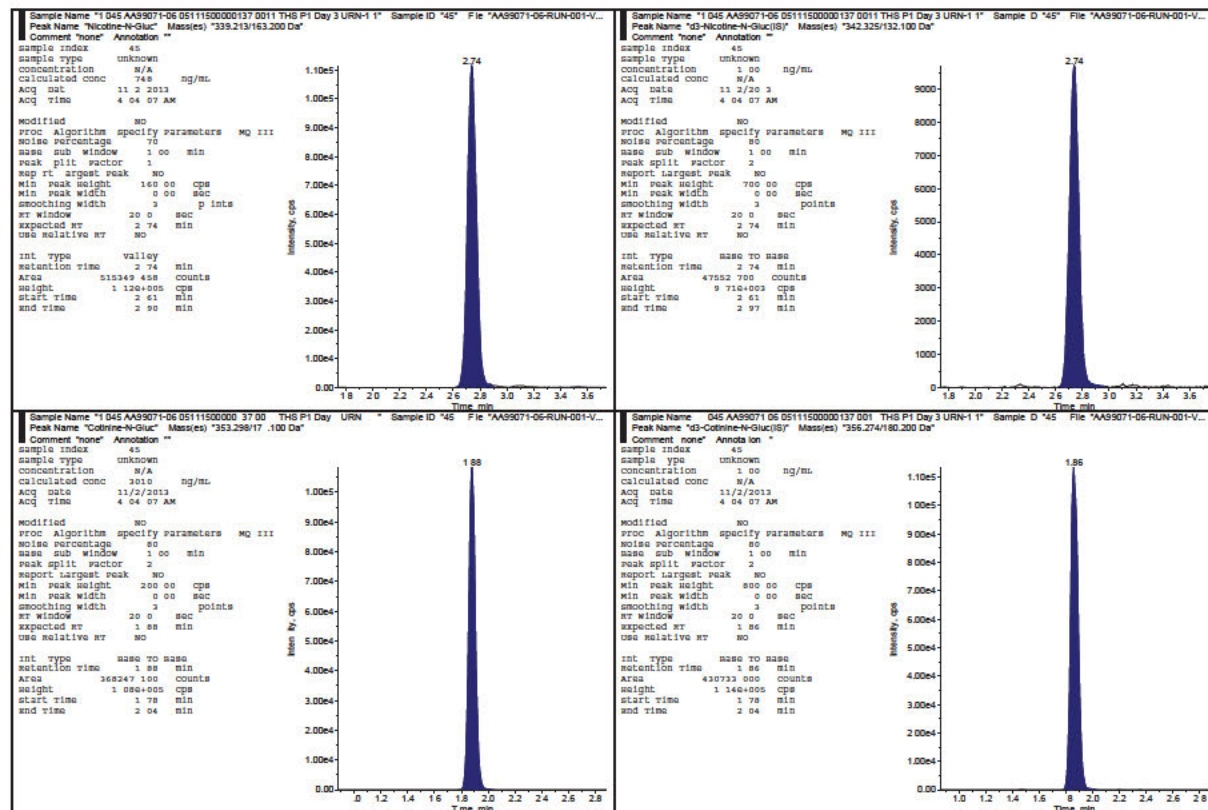
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





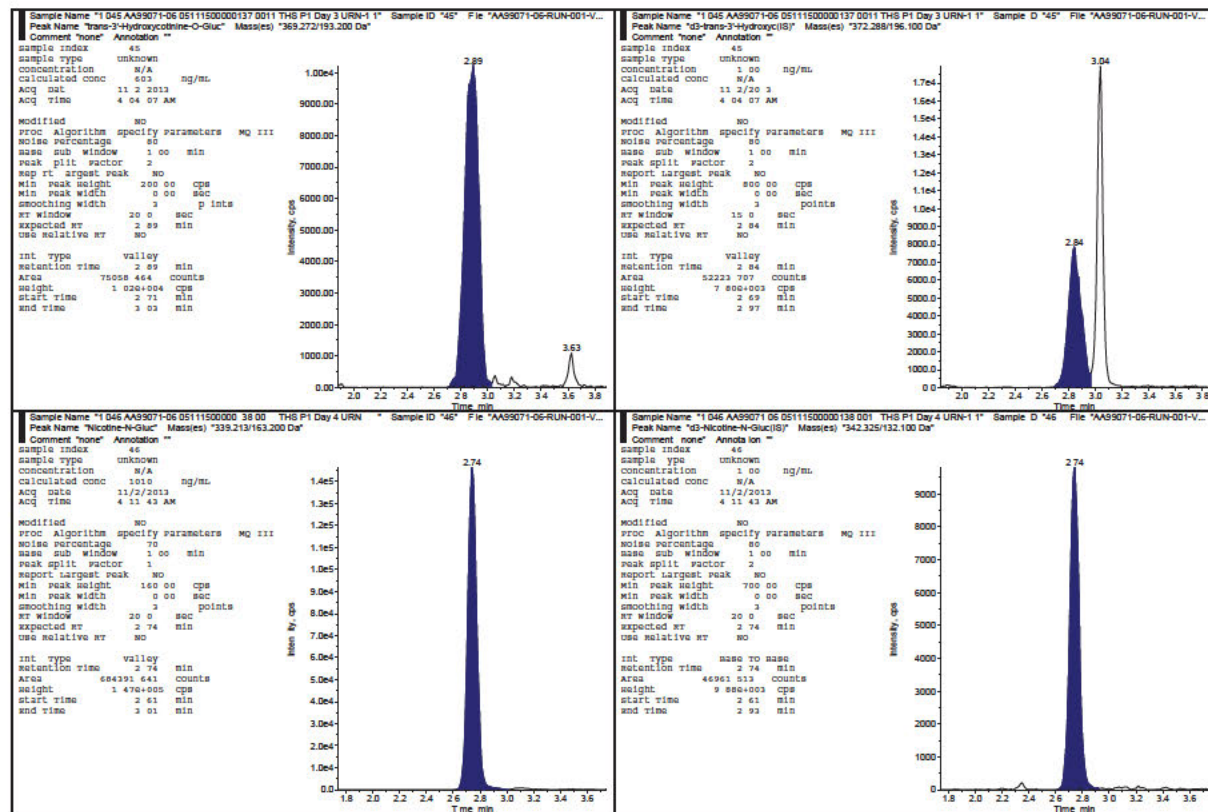


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



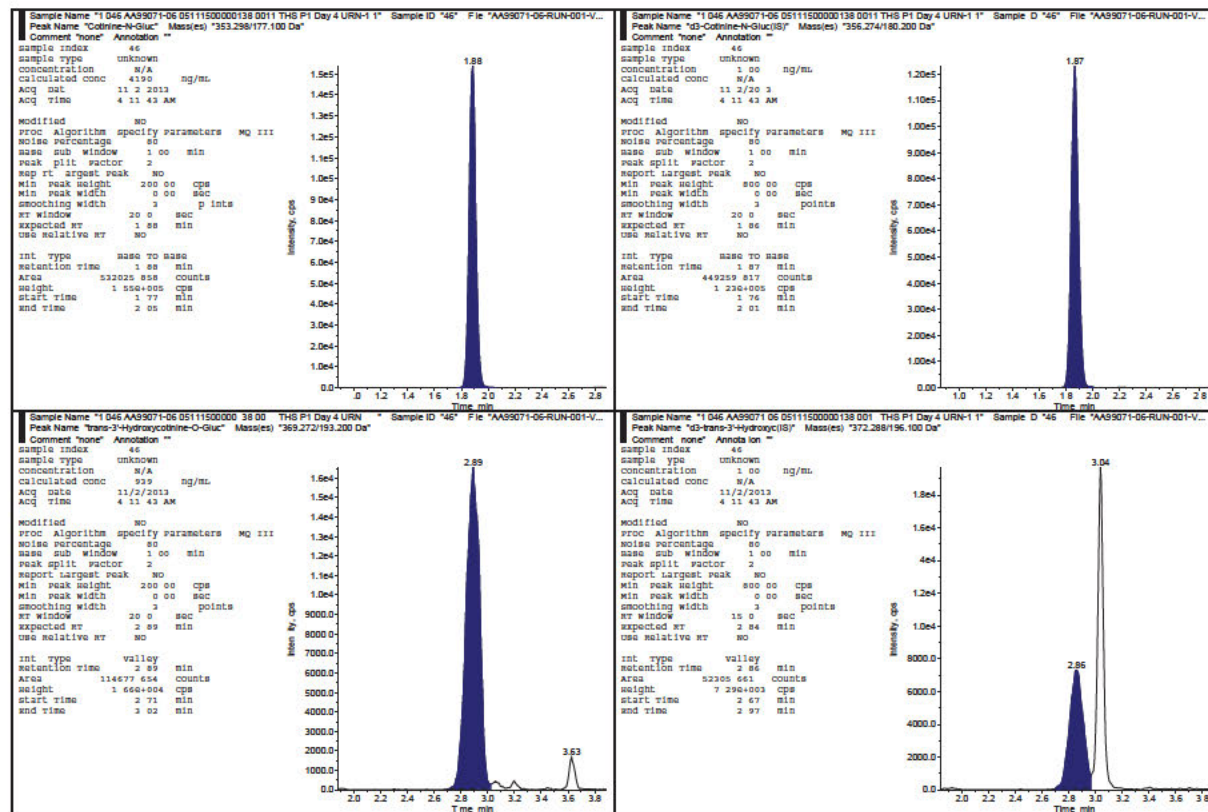


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



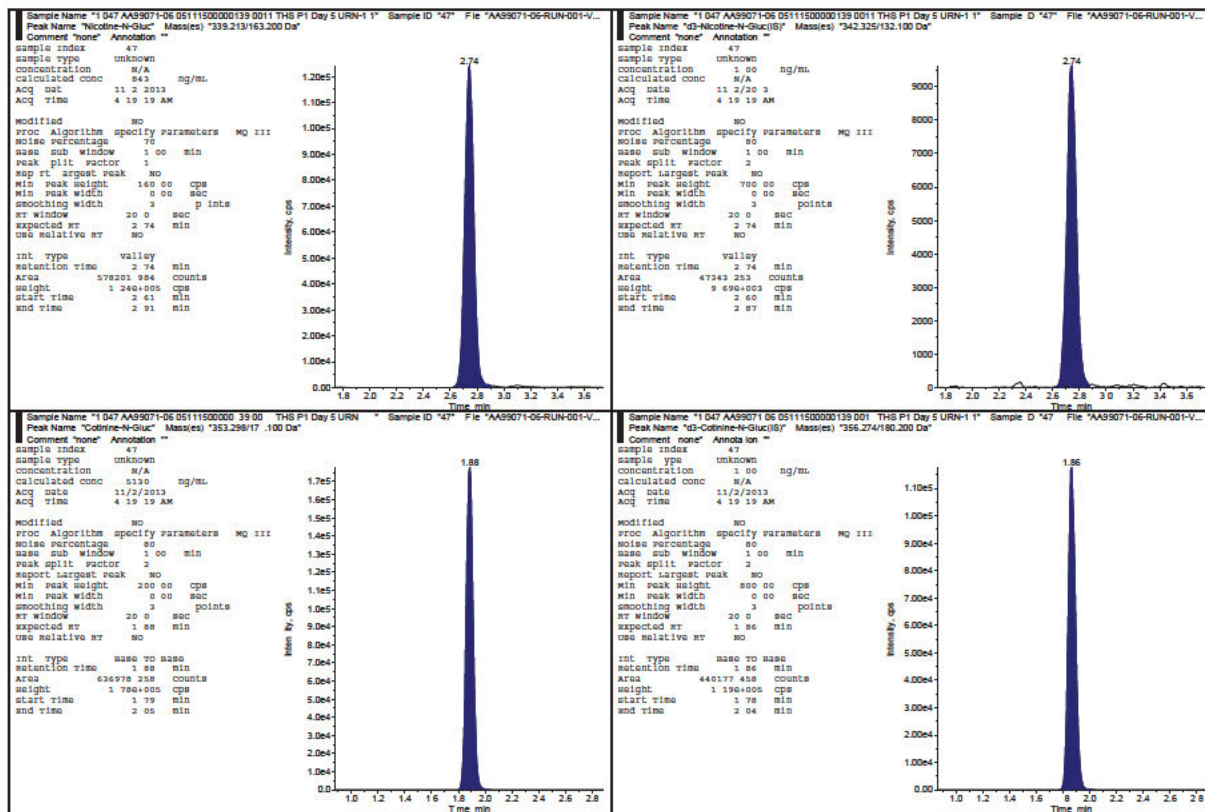


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





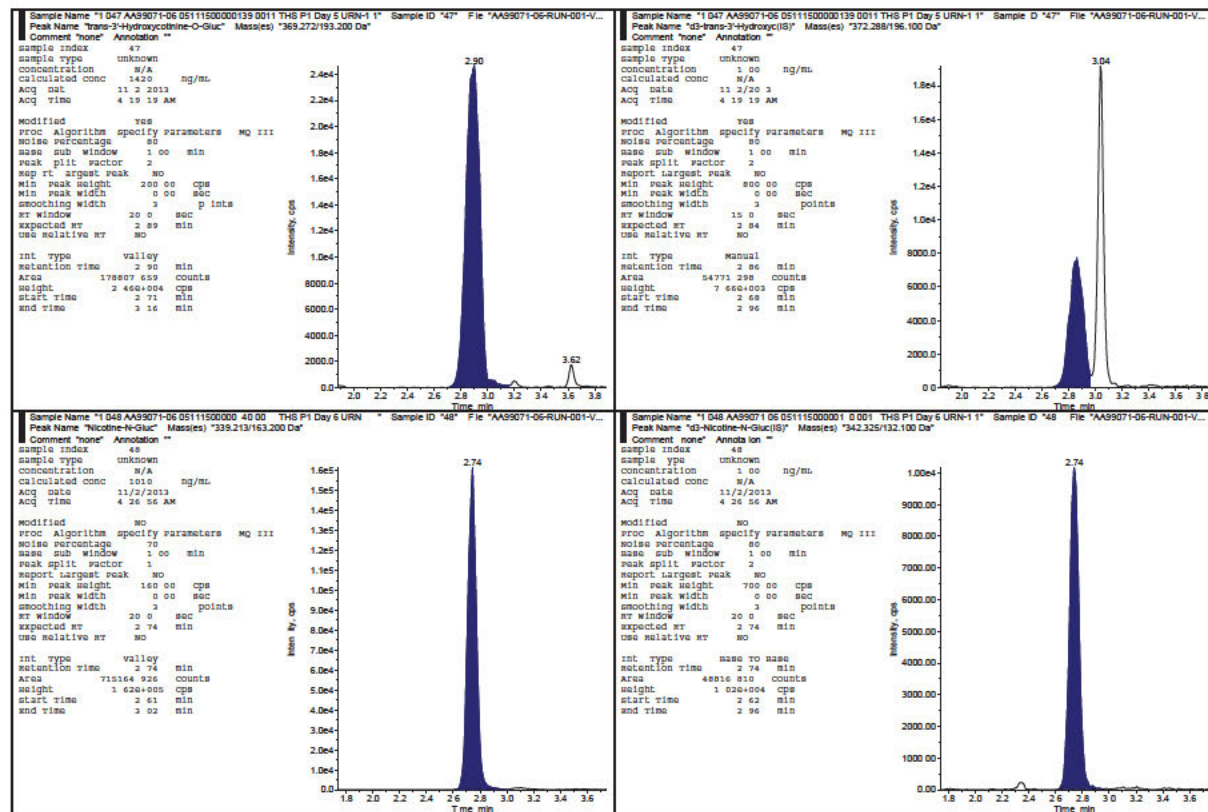
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





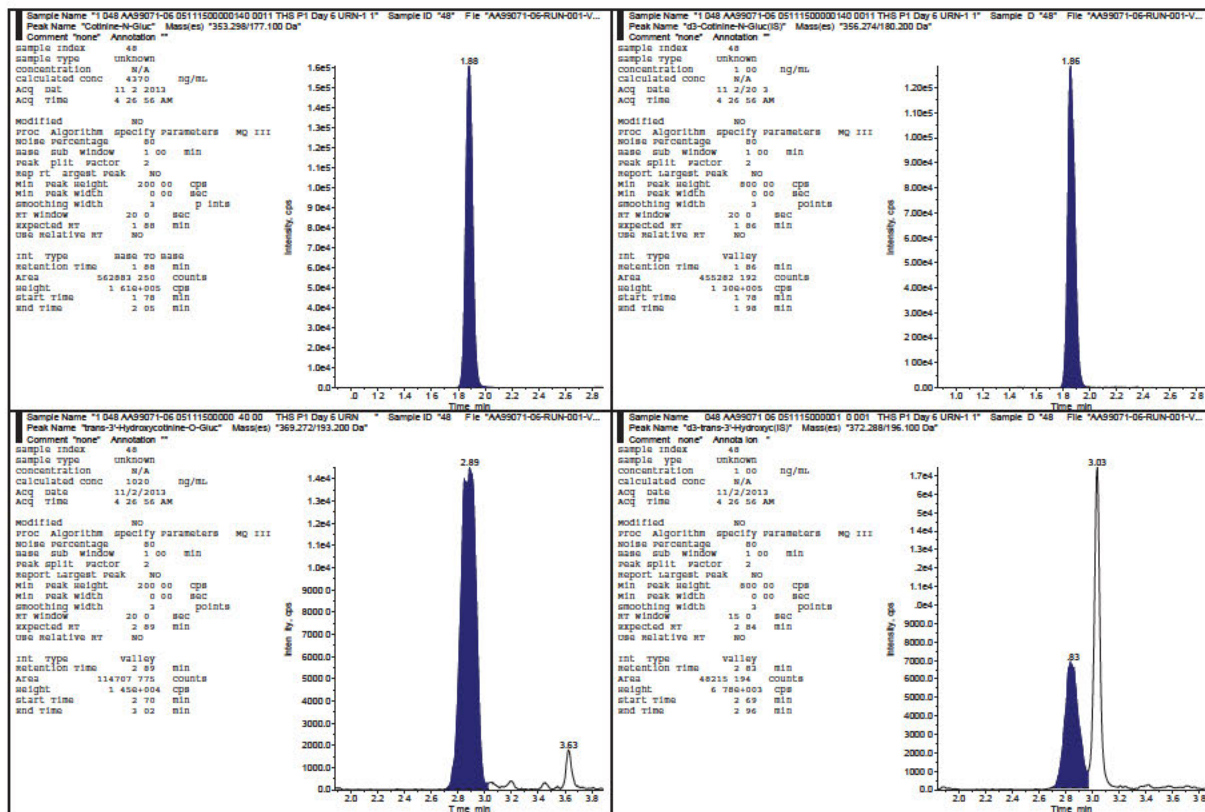


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



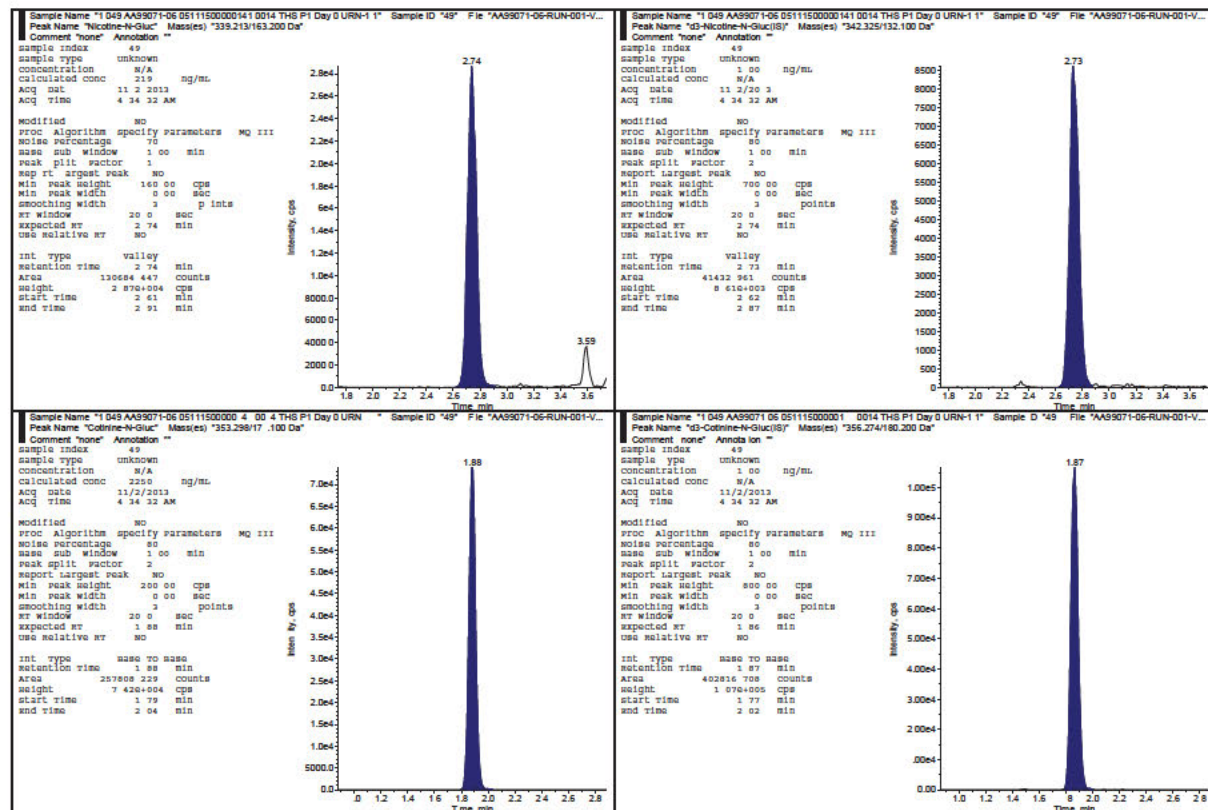


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



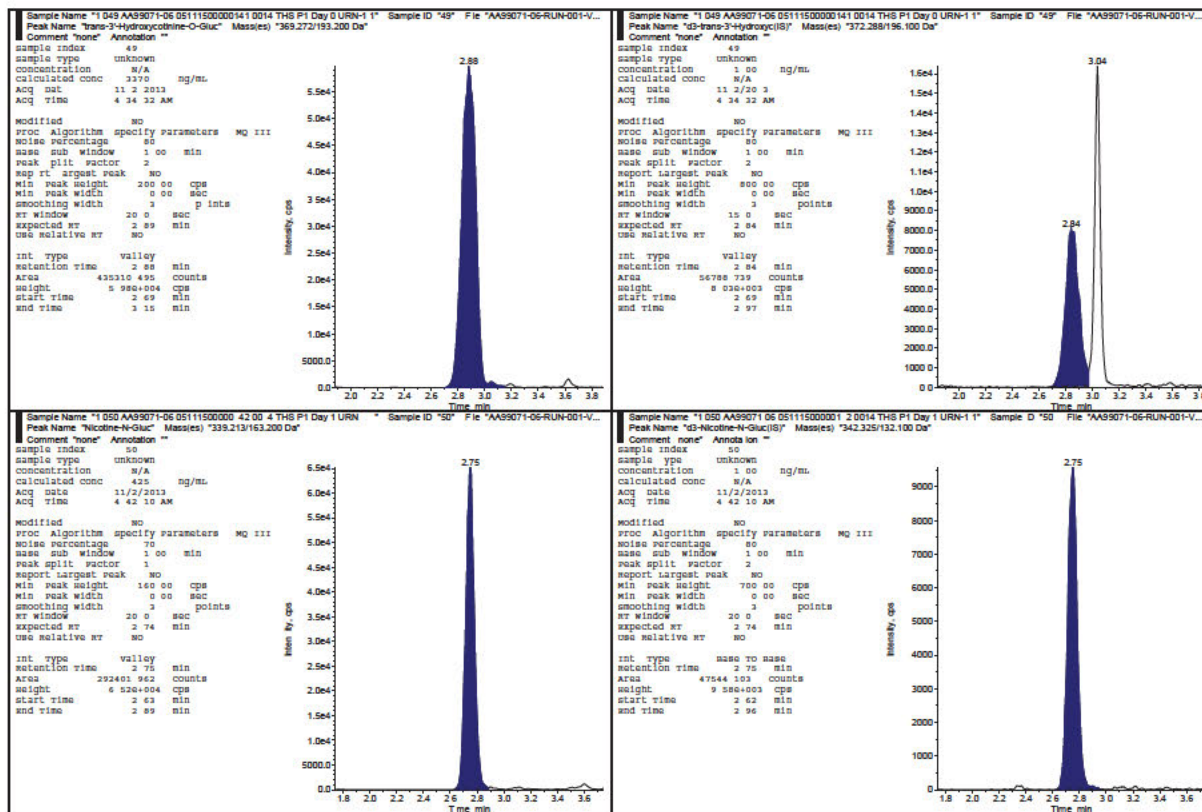


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06







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**Sample Name:** "1 050 AA93071-06 0511500000142 2014 THIS P1 Day 1 URN-1" **Sample ID:** "50" **File:** "AA93071-06-RUN-001-V..."

**Peak Name:** "Cotinine-O-Gluc" **Mass(es):** "353.298/177.100 Da"

**Comment:** "none" **Annotation:** ""

sample index	sample type	unknown
concentration	N/A	
calculated conc	23190	ng/mL
Acq date	11/2/2013	
Acq time	4 42 10 AM	

**Modified:** NO

**proc Algorithm:** specify parameters MQ III

**noise percentage:** 80

**base sub window:** 1 00 min

**peak split factor:** 2

**report largest peak:** NO

**min peak height:** 200 00 cps

**min peak width:** 0 00 sec

**smoothing width:** 3 points

**rt window:** 20 0 sec

**expected rt:** 1 89 min

**use relative rt:** NO

**int type:** base to base

**retention time:** 1 89 min

**area:** 26773 671 counts

**height:** 7 68e+004 cps

**start time:** 1 79 min

**end time:** 2 05 min

**Intensity, cps**

**Time, min**

**Sample Name:** "1 050 AA93071-06 0511500000142 2014 THIS P1 Day 1 URN-1" **Sample ID:** "50" **File:** "AA93071-06-RUN-001-V..."

**Peak Name:** "d3-Cotinine-N-Gluc(18)" **Mass(es):** "356.274/180.200 Da"

**Comment:** "none" **Annotation:** ""

sample index	sample type	unknown
concentration	1 86	ng/mL
calculated conc	N/A	
Acq date	11/2/2013	
Acq time	4 42 10 AM	

**Modified:** NO

**proc Algorithm:** specify parameters MQ III

**noise percentage:** 80

**base sub window:** 1 00 min

**peak split factor:** 2

**report largest peak:** NO

**min peak height:** 800 00 cps

**min peak width:** 0 00 sec

**smoothing width:** 3 points

**rt window:** 20 0 sec

**expected rt:** 1 86 min

**use relative rt:** NO

**int type:** base to base

**retention time:** 1 87 min

**area:** 428414 417 counts

**height:** 1 10e+005 cps

**start time:** 1 78 min

**end time:** 2 04 min

**Intensity, cps**

**Time, min**

**Sample Name:** "1 050 AA93071-06 0511500000142 2014 THIS P1 Day 1 URN-1" **Sample ID:** "50" **File:** "AA93071-06-RUN-001-V..."

**Peak Name:** "trans-3-Hydroxycotinine-O-Gluc" **Mass(es):** "369.272/193.200 Da"

**Comment:** "none" **Annotation:** ""

sample index	sample type	unknown
concentration	N/A	
calculated conc	2600	ng/mL
Acq date	11/2/2013	
Acq time	4 42 10 AM	

**Modified:** NO

**proc Algorithm:** specify parameters MQ III

**noise percentage:** 80

**base sub window:** 1 00 min

**peak split factor:** 2

**report largest peak:** NO

**min peak height:** 200 00 cps

**min peak width:** 0 00 sec

**smoothing width:** 3 points

**rt window:** 20 0 sec

**expected rt:** 2 89 min

**use relative rt:** NO

**int type:** valley

**retention time:** 2 88 min

**area:** 333600 378 counts

**height:** 4 89e+004 cps

**start time:** 2 70 min

**end time:** 3 15 min

**Intensity, cps**

**Time, min**

**Sample Name:** "1 050 AA93071-06 0511500000142 2014 THIS P1 Day 1 URN-1" **Sample ID:** "50" **File:** "AA93071-06-RUN-001-V..."

**Peak Name:** "d3-trans-3-Hydroxyc(18)" **Mass(es):** "372.288/196.100 Da"

**Comment:** "none" **Annotation:** ""

sample index	sample type	unknown
concentration	N/A	
calculated conc	1 86	ng/mL
Acq date	11/2/2013	
Acq time	4 42 10 AM	

**Modified:** NO

**proc Algorithm:** specify parameters MQ III

**noise percentage:** 80

**base sub window:** 1 00 min

**peak split factor:** 2

**report largest peak:** NO

**min peak height:** 800 00 cps

**min peak width:** 0 00 sec

**smoothing width:** 3 points

**rt window:** 15 0 sec

**expected rt:** 2 84 min

**use relative rt:** NO

**int type:** valley

**retention time:** 2 87 min

**area:** 56502 132 counts

**height:** 8 22e+003 cps

**start time:** 2 70 min

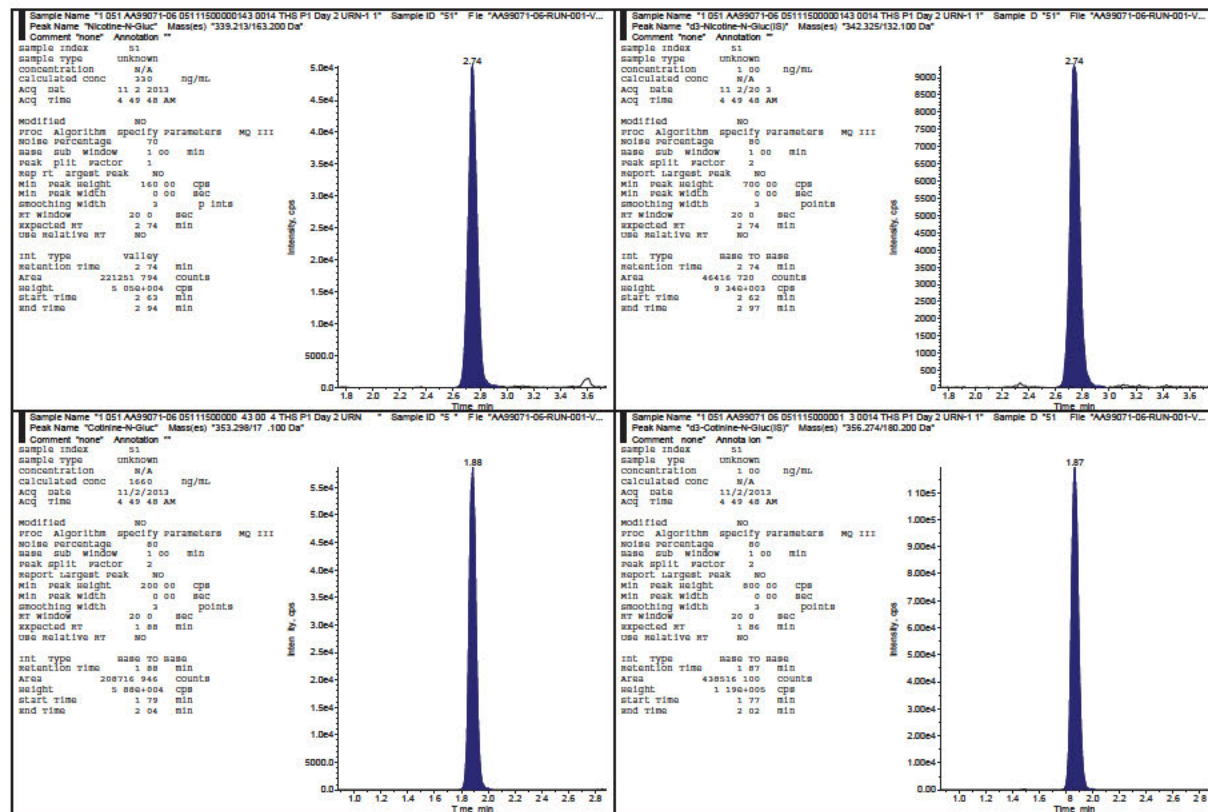
**end time:** 3 08 min

**Intensity, cps**

**Time, min**

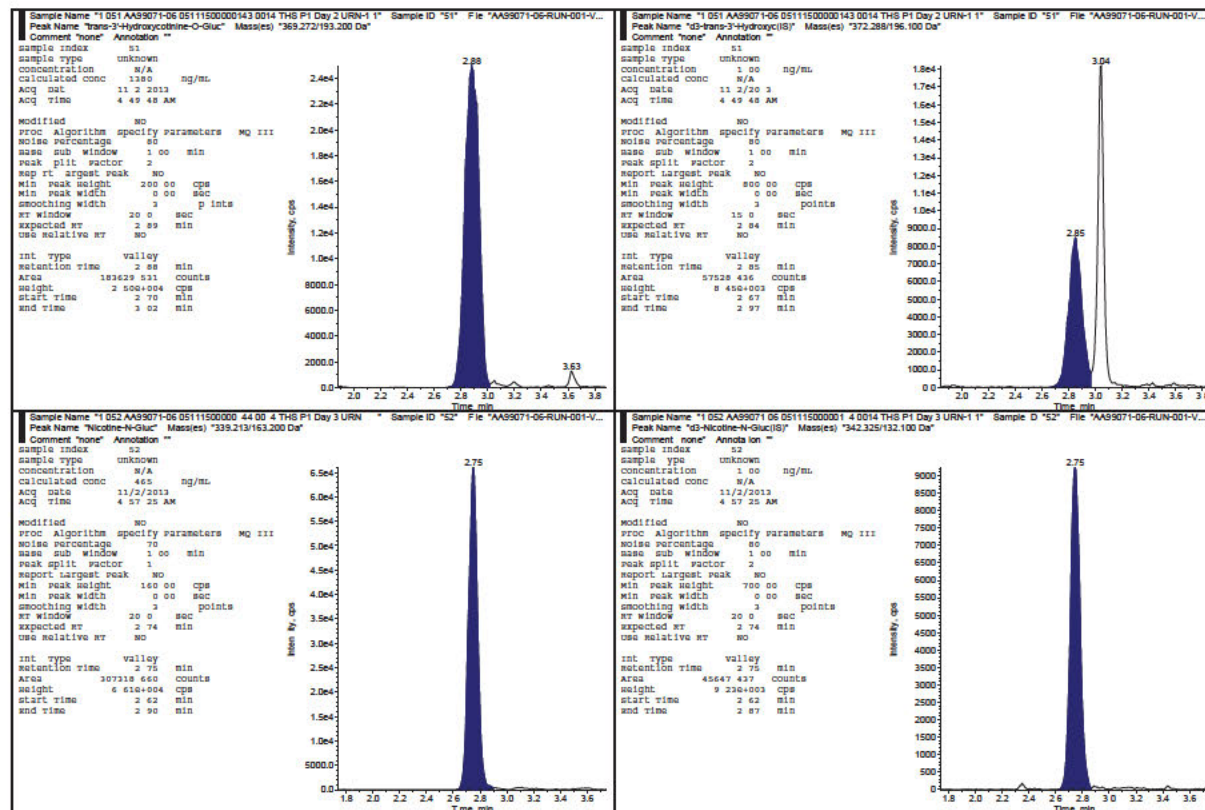


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



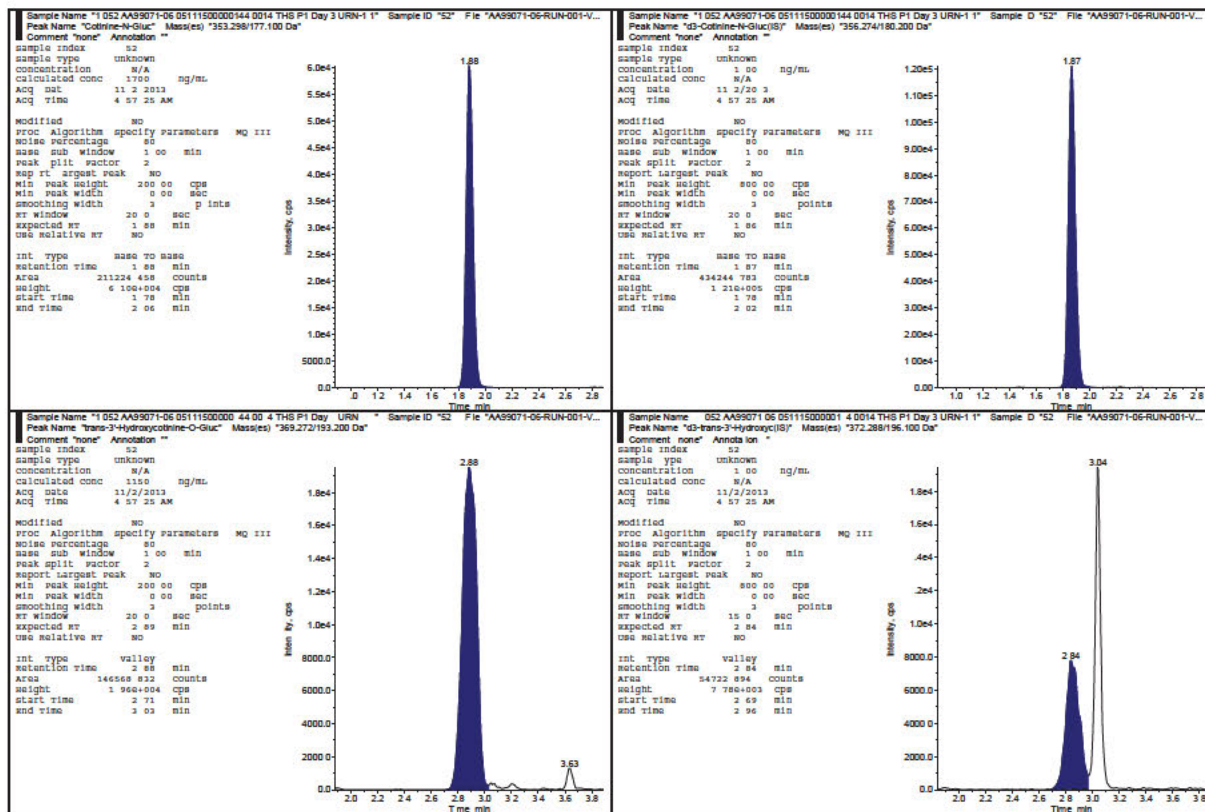


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





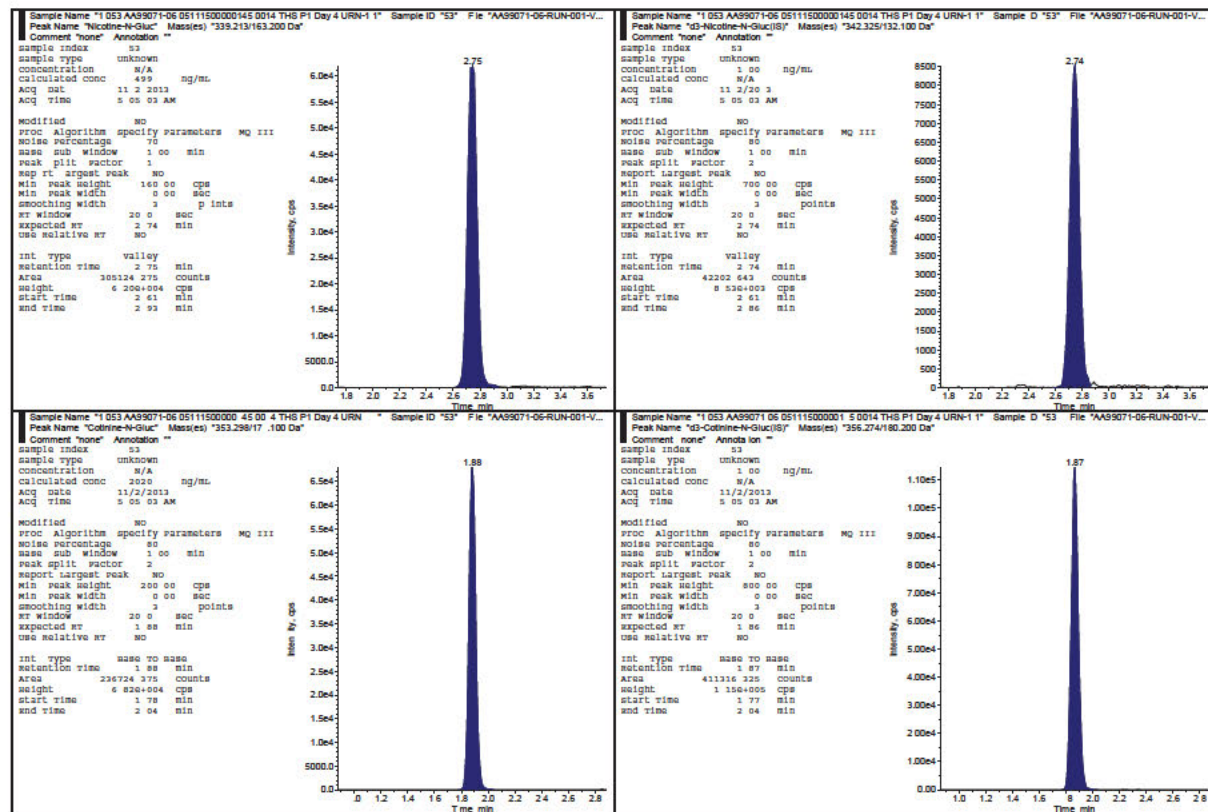
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





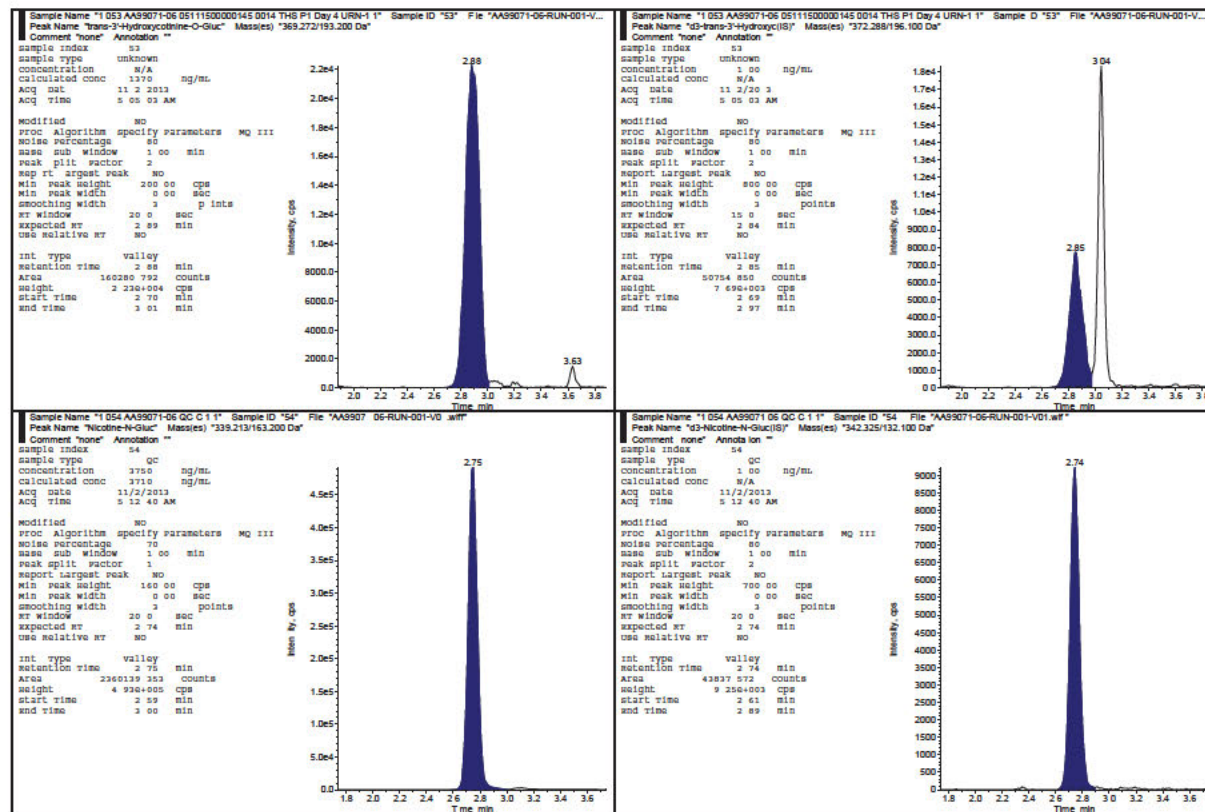


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



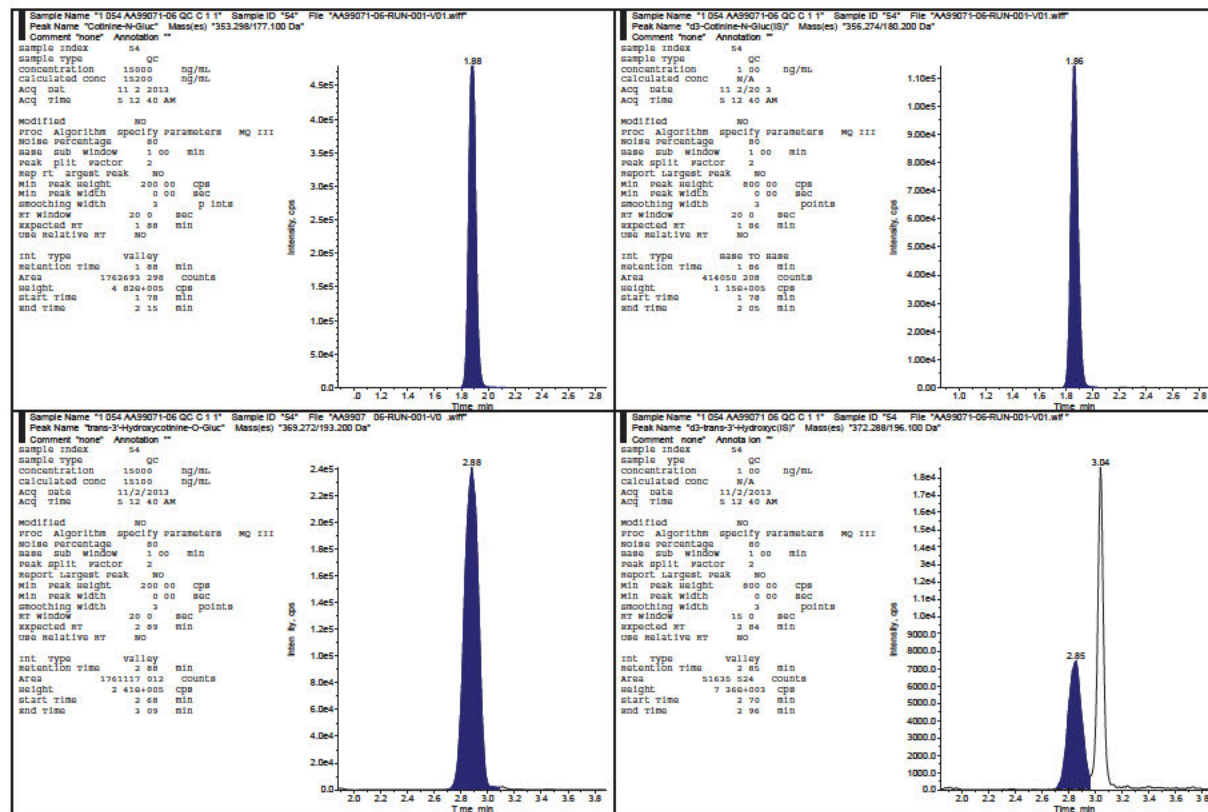


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



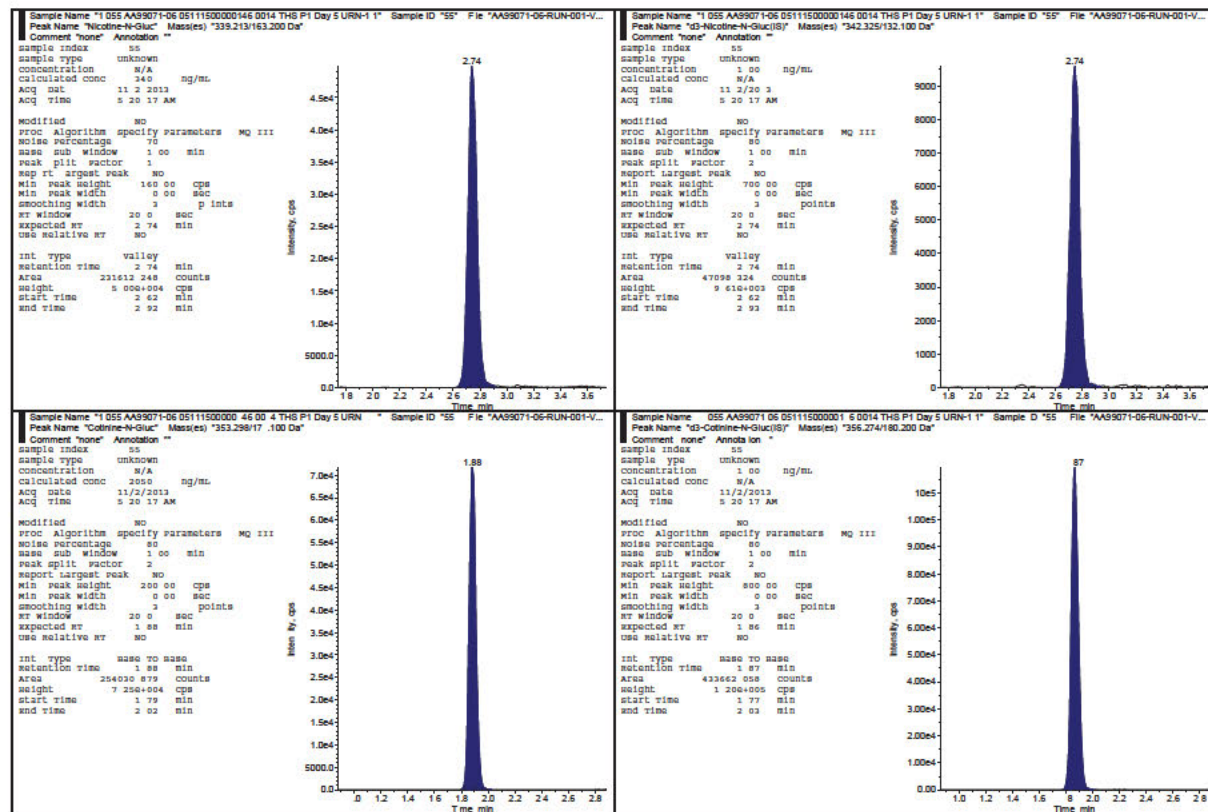


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





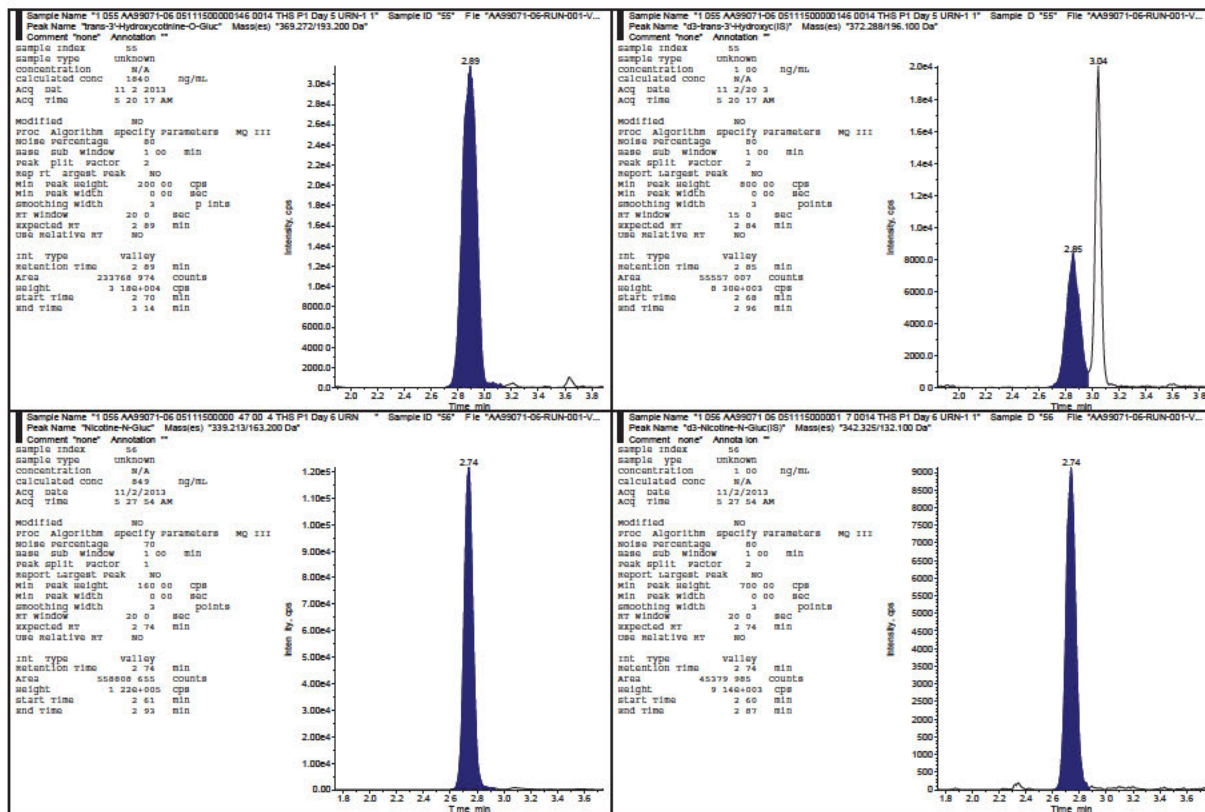
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





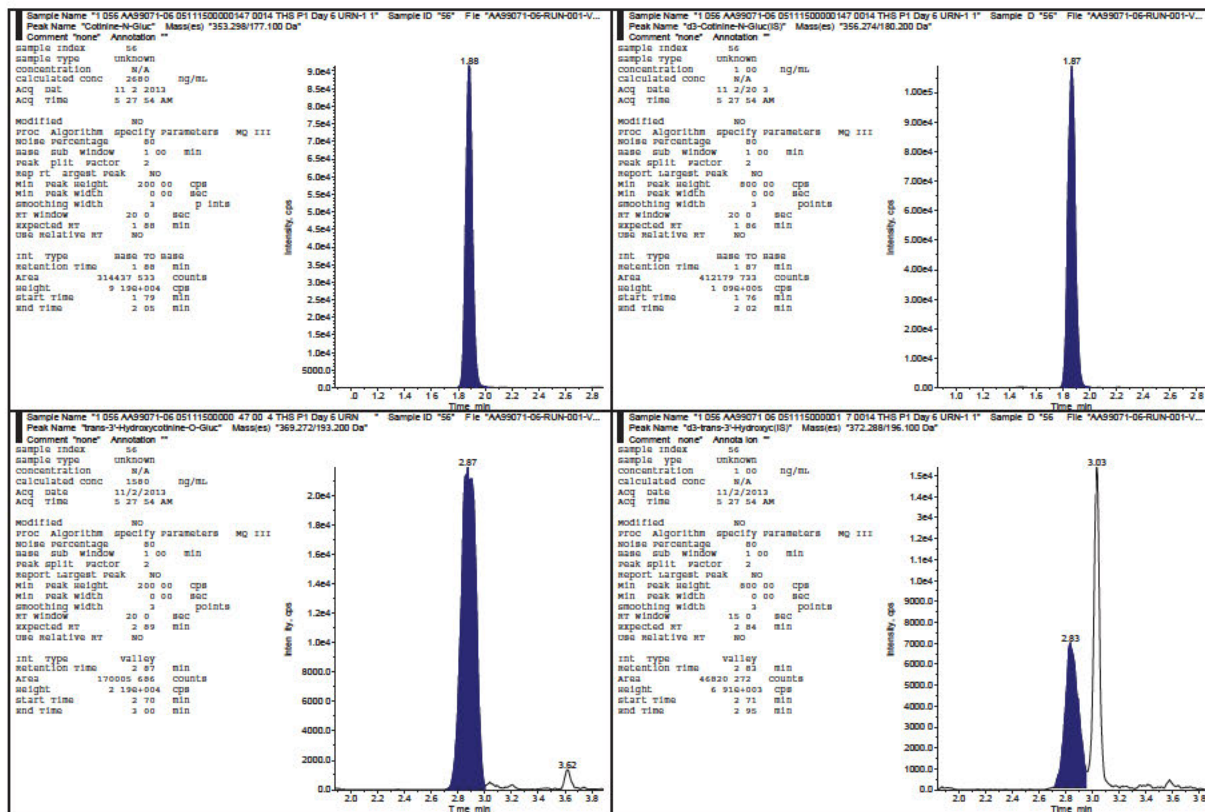


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



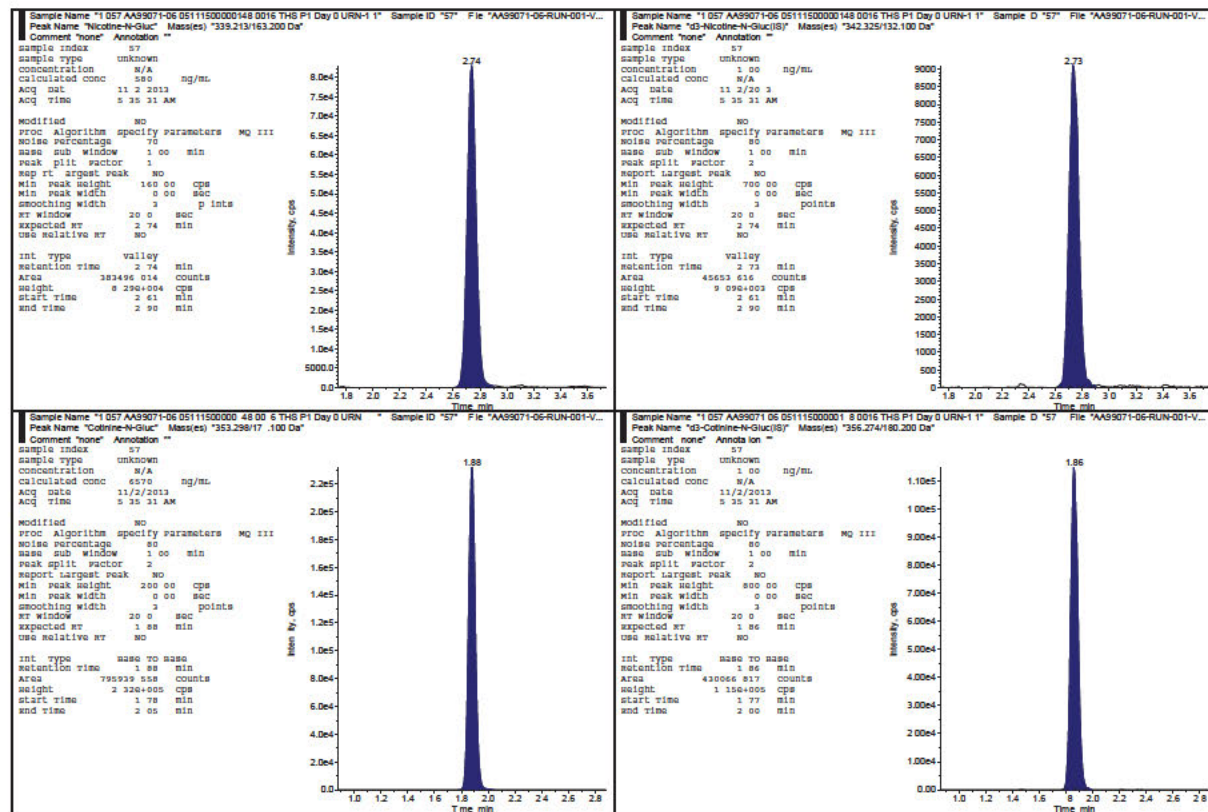


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



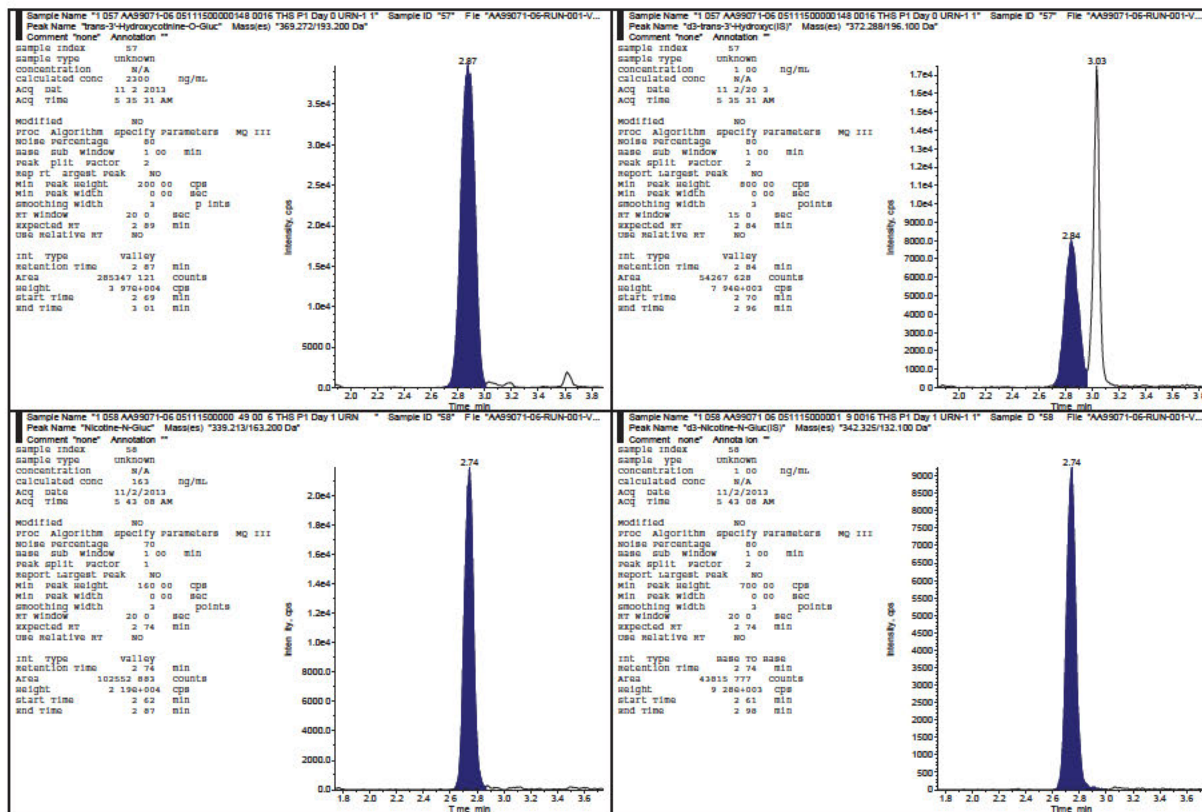


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





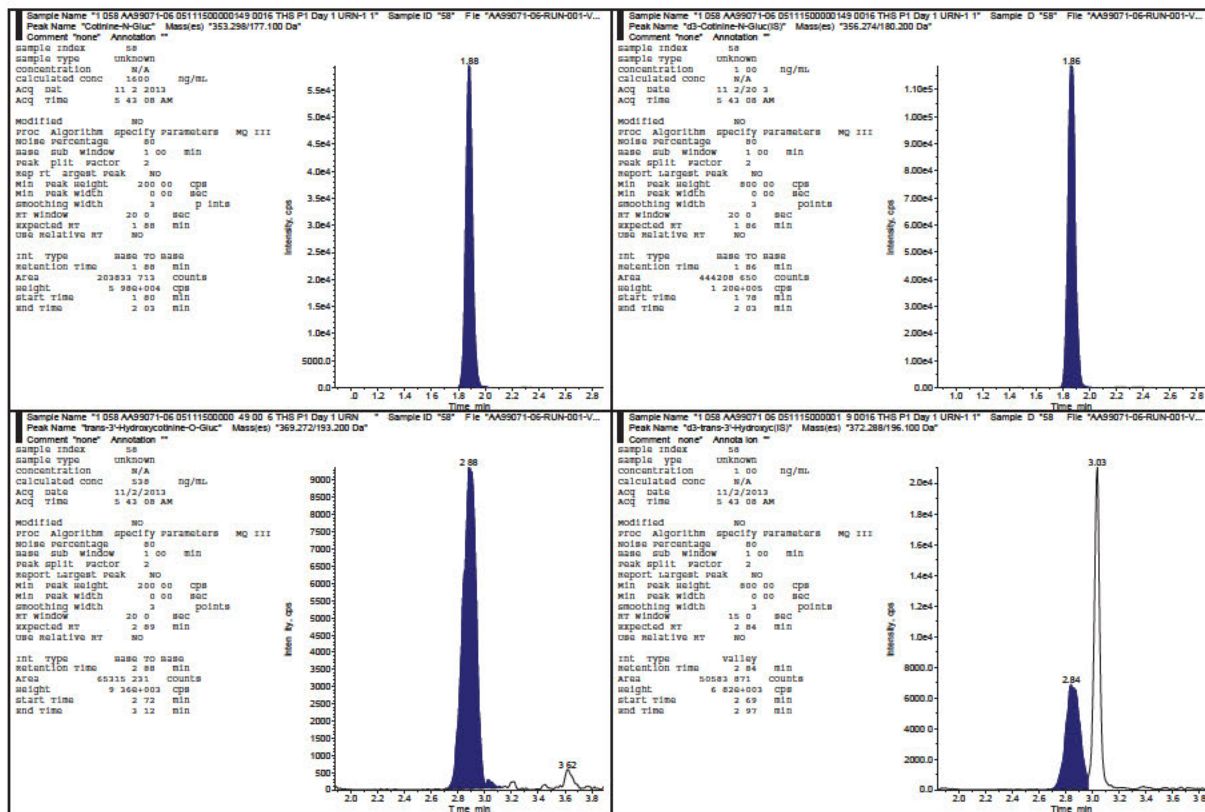
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





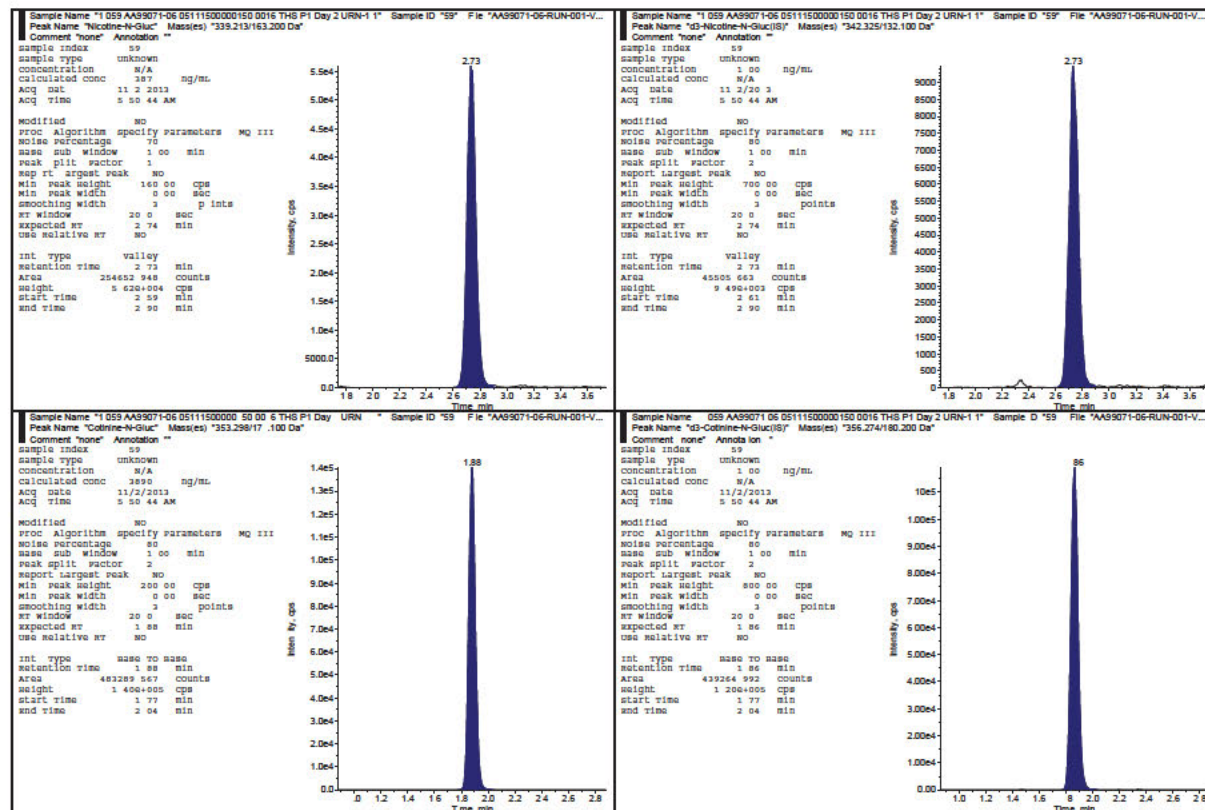


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



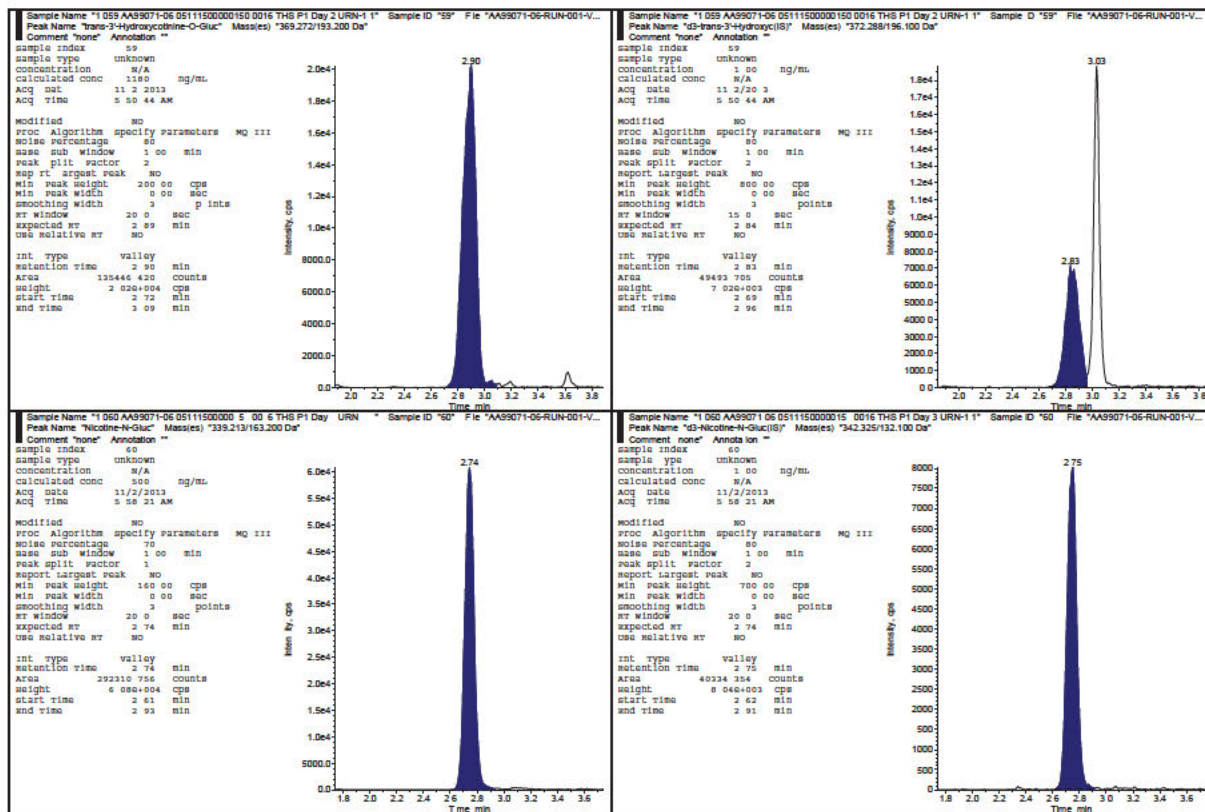


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





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**Top Left Chromatogram:**

Sample Name: "1 D60 AA9307-06 0511500000151 0016 This P1 Day 3 URN+1 1" Sample ID: "50" File: "AA9307-06-RUN-001-V..."  
 Peak Name: "Cotinine-N-Glu" Mass(es): "353.298/177.100 Da"  
 Comment: "none" Annotation: ""

sample index	60
sample type	unknown
concentration	N/A
calculated conc	33790 ng/mL
Acq date	11/2/2013
Acq time	5:58:21 AM

Modified: NO  
 proc Algorithm: specificity parameters: MQ III  
 noise percentage: 80  
 base sub window: 1.00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 200 cps  
 min peak width: 0.00 sec  
 smoothing width: 3 points  
 rt window: 20.0 sec  
 expected rt: 1.88 min  
 use relative rt: NO

int type: base to base  
 retention time: 1.88 min  
 Area: 383514.219 counts  
 height: 1.08e+005 cps  
 start time: 1.78 min  
 end time: 2.05 min

**Top Right Chromatogram:**

Sample Name: "1 D60 AA9307-06 0511500000151 0016 This P1 Day 3 URN+1 1" Sample ID: "50" File: "AA9307-06-RUN-001-V..."  
 Peak Name: "d3-Cotinine-N-Glu(18)" Mass(es): "356.274/180.200 Da"  
 Comment: "none" Annotation: ""

sample index	60
sample type	unknown
concentration	1.56 ng/mL
calculated conc	N/A
Acq date	11/2/2013
Acq time	5:58:21 AM

Modified: NO  
 proc Algorithm: specificity parameters: MQ III  
 noise percentage: 80  
 base sub window: 1.00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 800 cps  
 min peak width: 0.00 sec  
 smoothing width: 3 points  
 rt window: 20.0 sec  
 expected rt: 1.86 min  
 use relative rt: NO

int type: base to base  
 retention time: 1.86 min  
 Area: 413792.442 counts  
 height: 1.15e+005 cps  
 start time: 1.78 min  
 end time: 2.03 min

**Bottom Left Chromatogram:**

Sample Name: "1 D60 AA9307-06 051150000015 00 6 This P1 Day 3 URN+1 1" Sample ID: "50" File: "AA9307-06-RUN-001-V..."  
 Peak Name: "trans-3-Hydroxycotinine-O-Glu" Mass(es): "369.272/193.200 Da"  
 Comment: "none" Annotation: ""

sample index	60
sample type	unknown
concentration	N/A
calculated conc	1080 ng/mL
Acq date	11/2/2013
Acq time	5:58:21 AM

Modified: NO  
 proc Algorithm: specificity parameters: MQ III  
 noise percentage: 80  
 base sub window: 1.00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 200 cps  
 min peak width: 0.00 sec  
 smoothing width: 3 points  
 rt window: 20.0 sec  
 expected rt: 2.89 min  
 use relative rt: NO

int type: valley  
 retention time: 2.88 min  
 Area: 106008.760 counts  
 height: 1.49e+004 cps  
 start time: 2.72 min  
 end time: 3.03 min

**Bottom Right Chromatogram:**

Sample Name: "1 D60 AA9307-06 051150000015 0016 This P1 Day 3 URN+1 1" Sample ID: "50" File: "AA9307-06-RUN-001-V..."  
 Peak Name: "d3-trans-3-Hydroxycotinine(18)" Mass(es): "372.288/196.100 Da"  
 Comment: "none" Annotation: ""

sample index	60
sample type	unknown
concentration	1.00 ng/mL
calculated conc	N/A
Acq date	11/2/2013
Acq time	5:58:21 AM

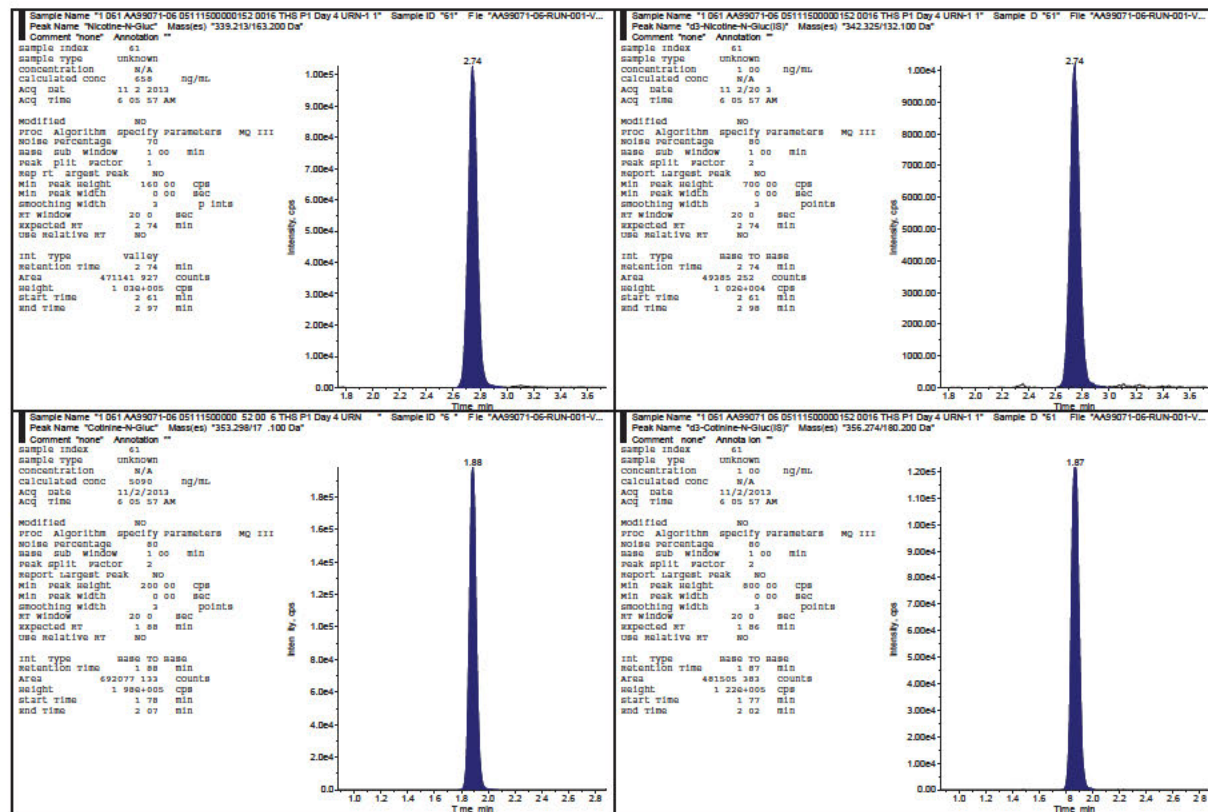
Modified: NO  
 proc Algorithm: specificity parameters: MQ III  
 noise percentage: 80  
 base sub window: 1.00 min  
 peak split factor: 2  
 report largest peak: NO  
 min peak height: 800 cps  
 min peak width: 0.00 sec  
 smoothing width: 3 points  
 rt window: 15.0 sec  
 expected rt: 2.84 min  
 use relative rt: NO

int type: valley  
 retention time: 2.85 min  
 Area: 42291.785 counts  
 height: 6.12e+003 cps  
 start time: 2.70 min  
 end time: 2.95 min



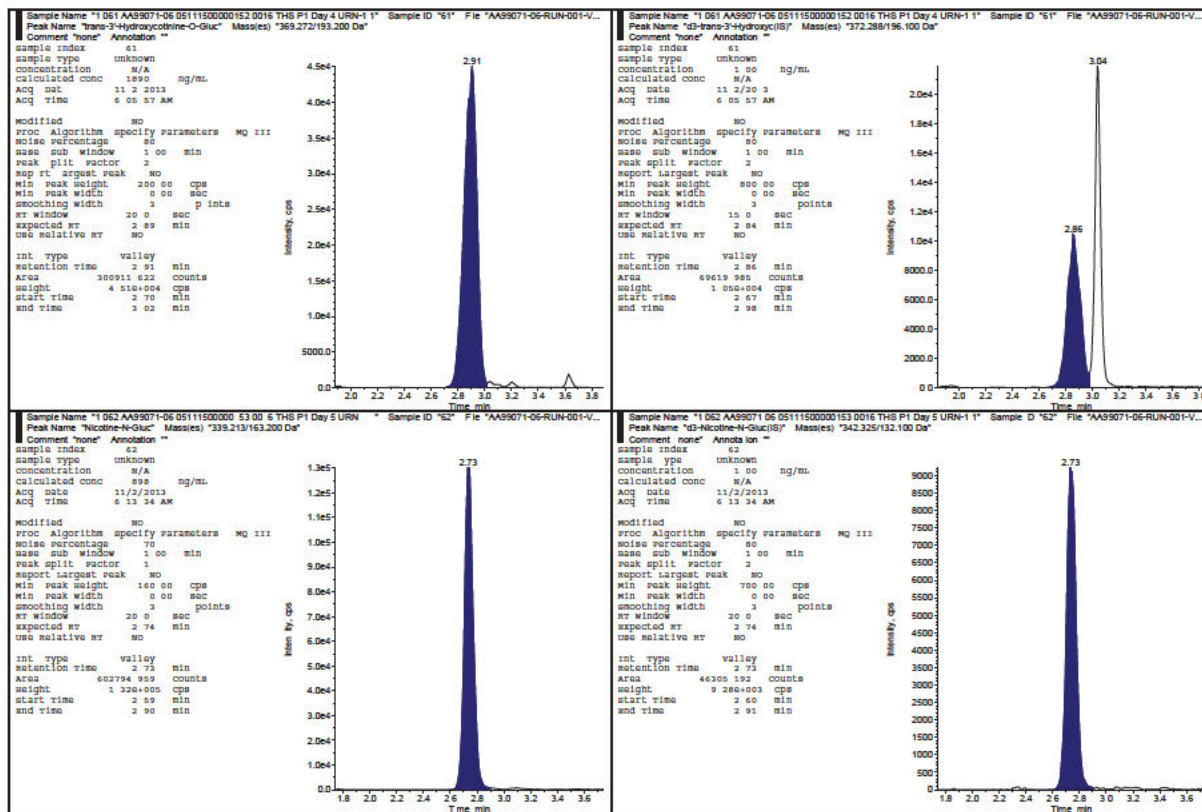


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



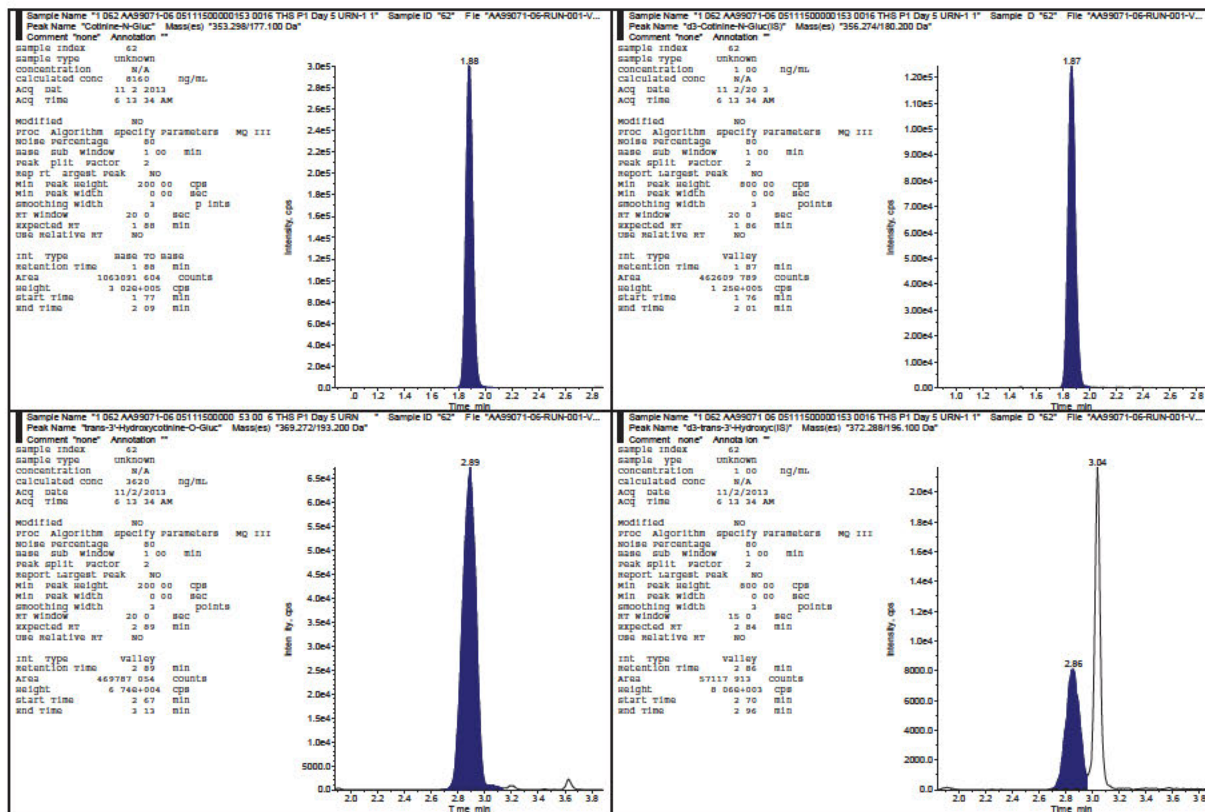


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



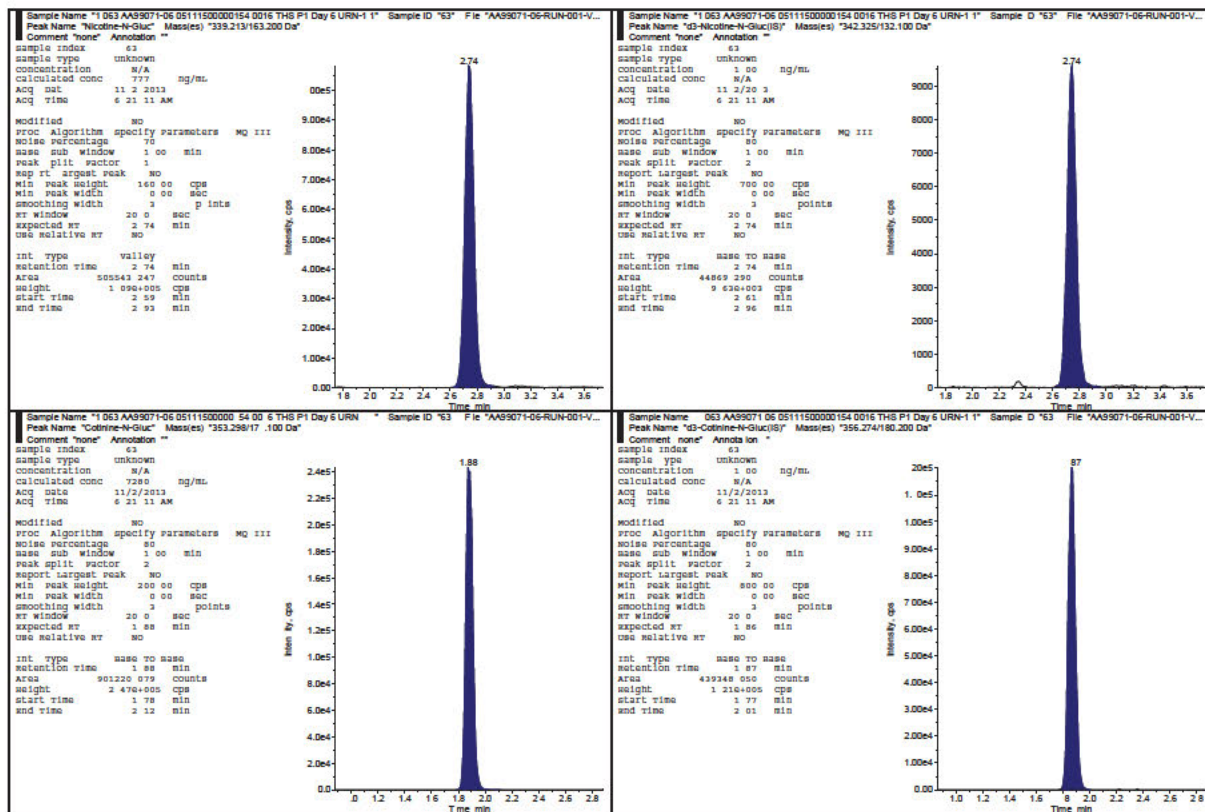


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





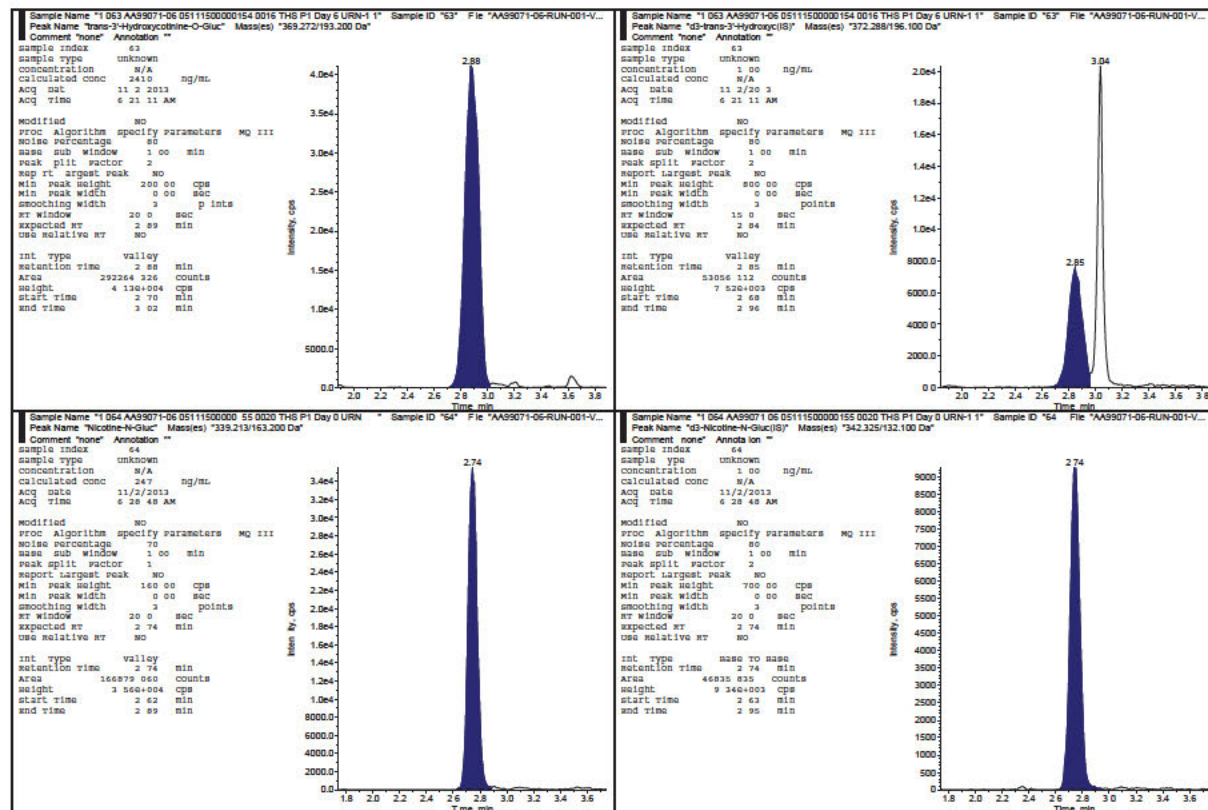
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





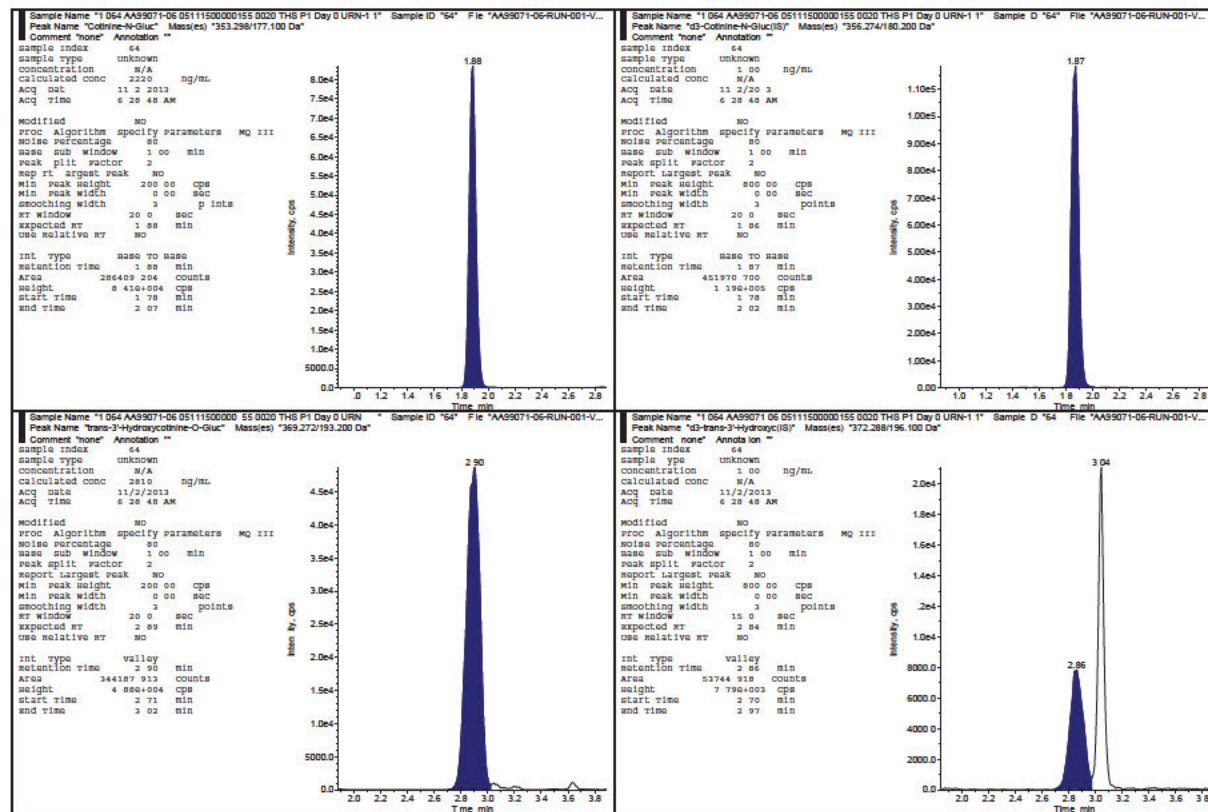


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



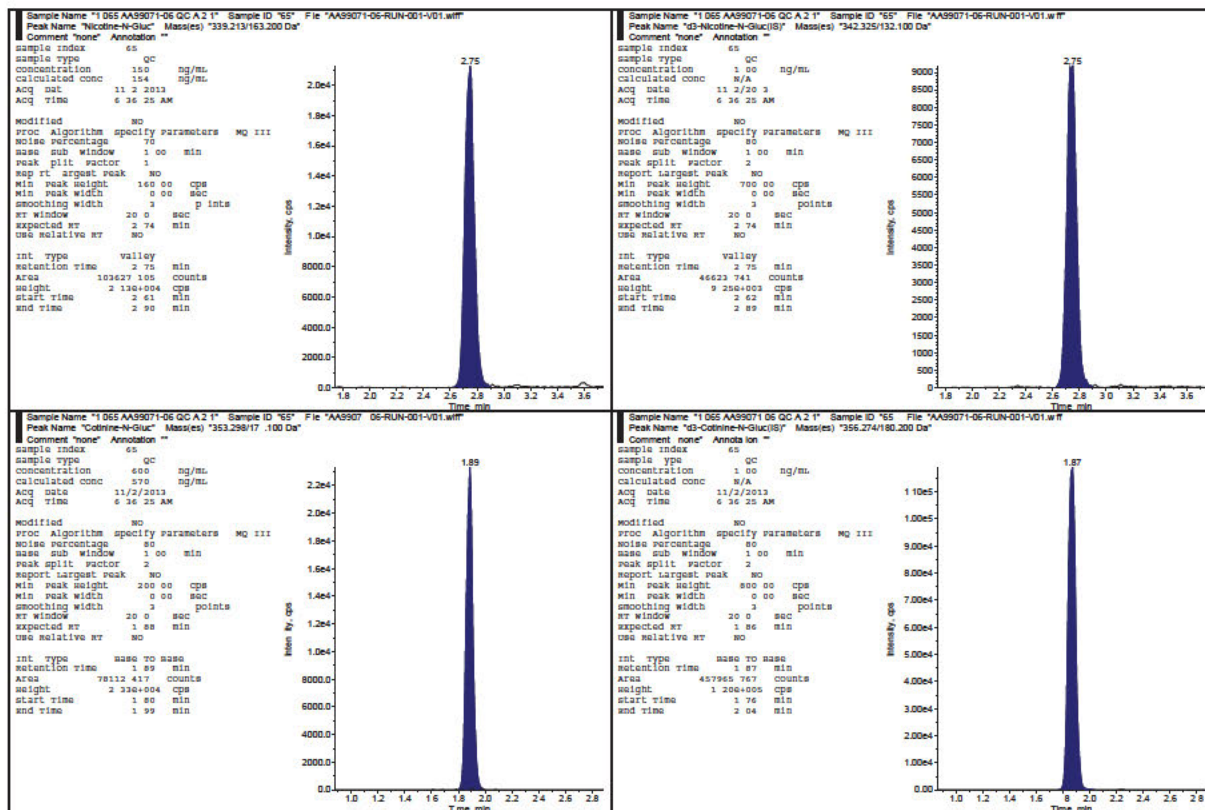


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



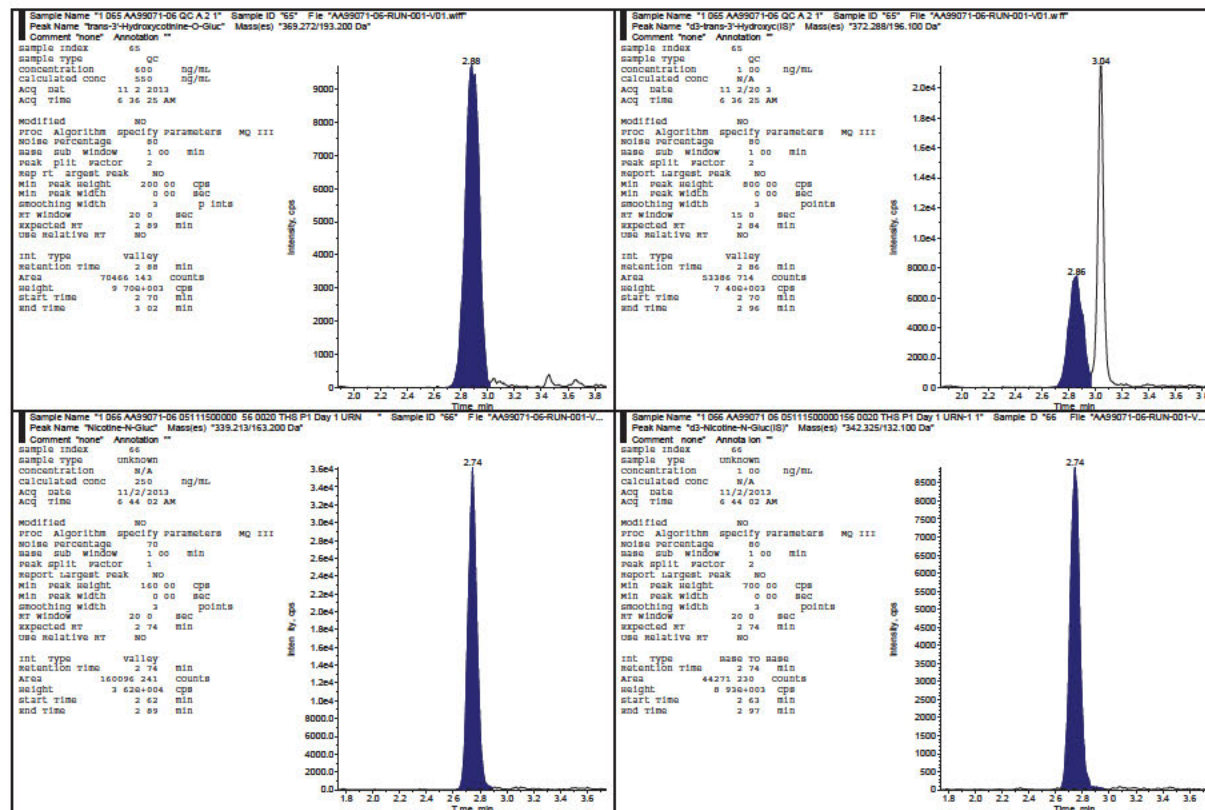


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





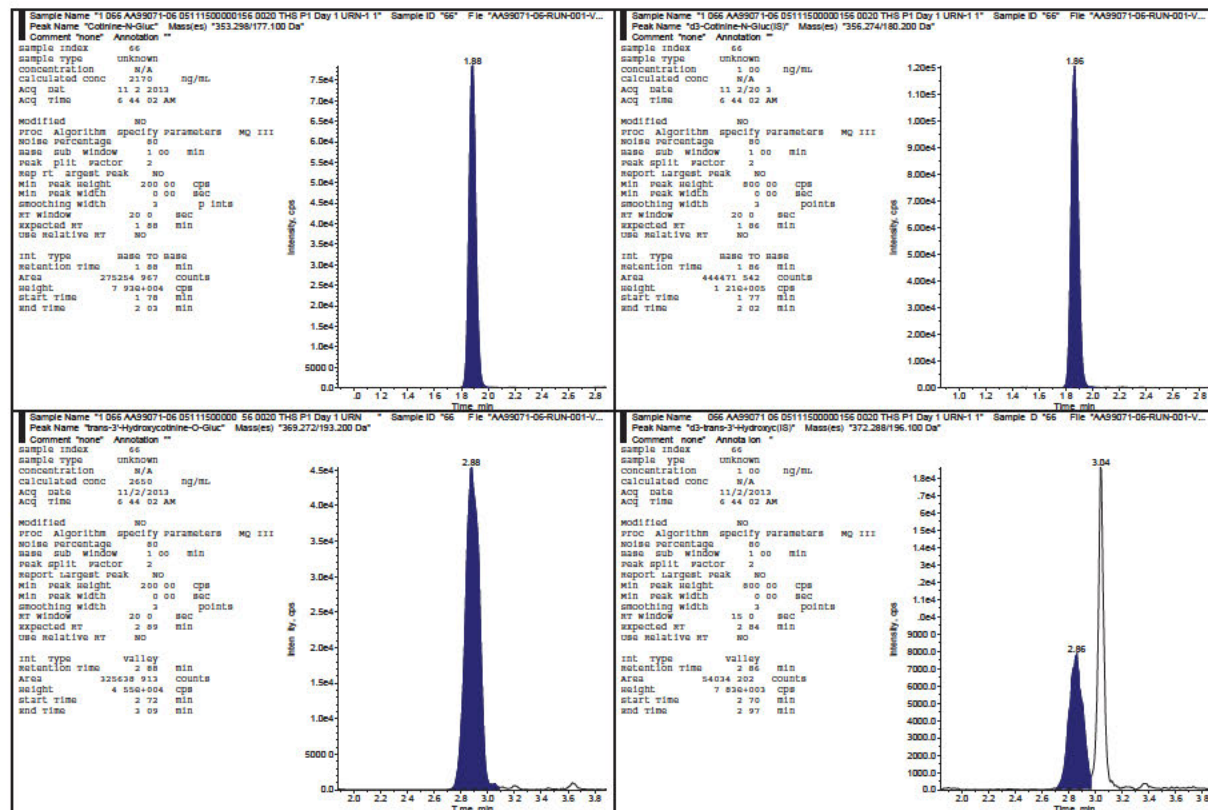
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





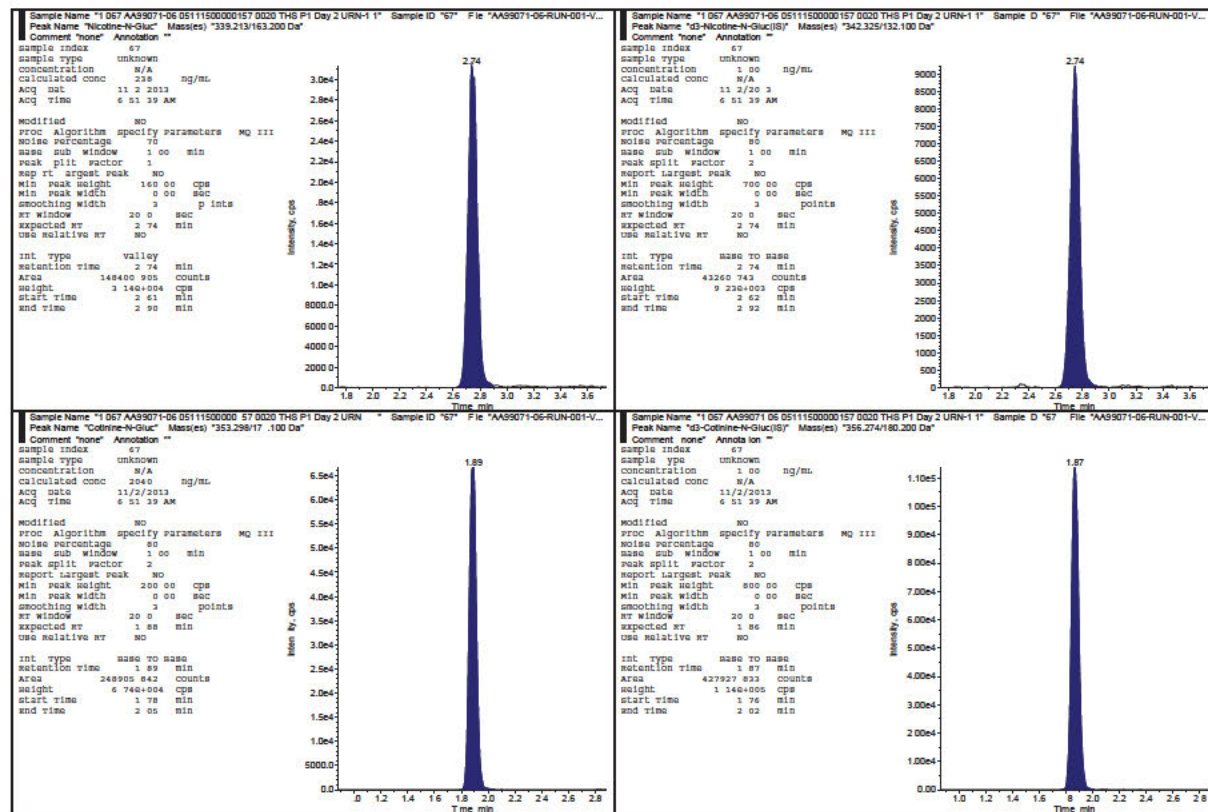


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



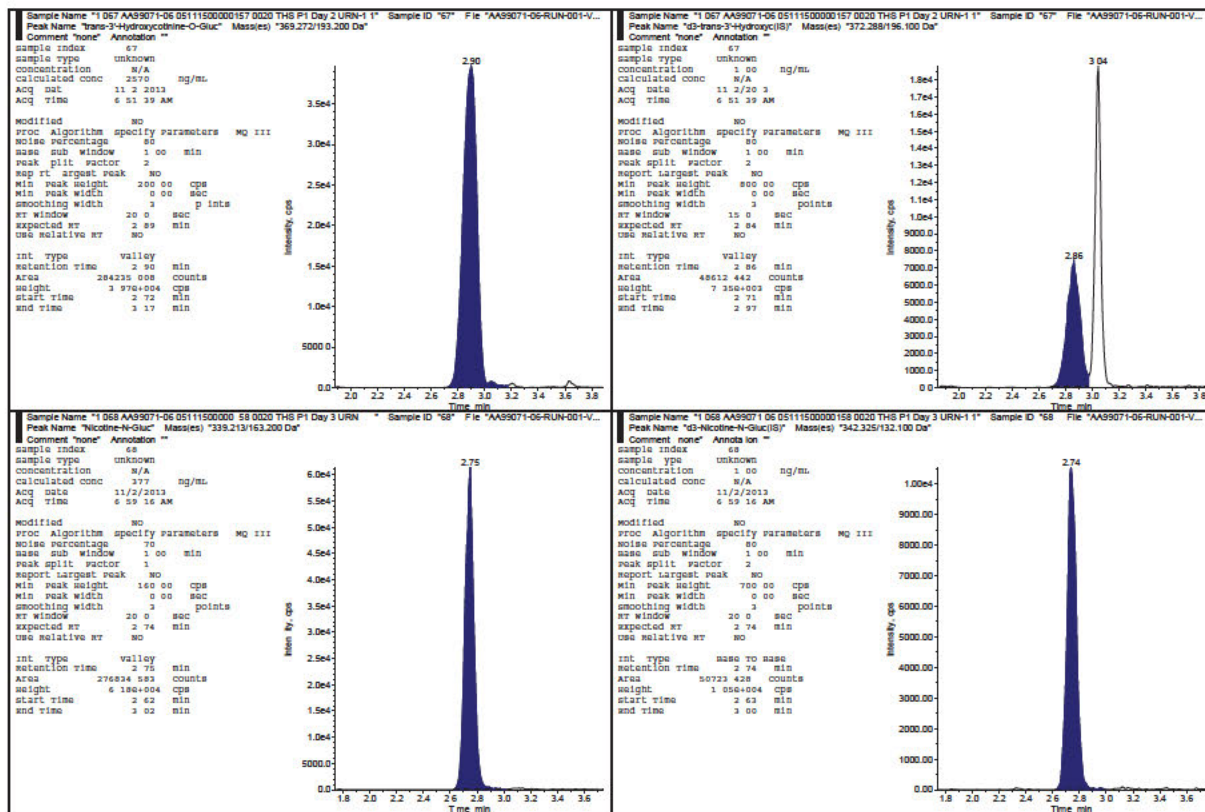


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



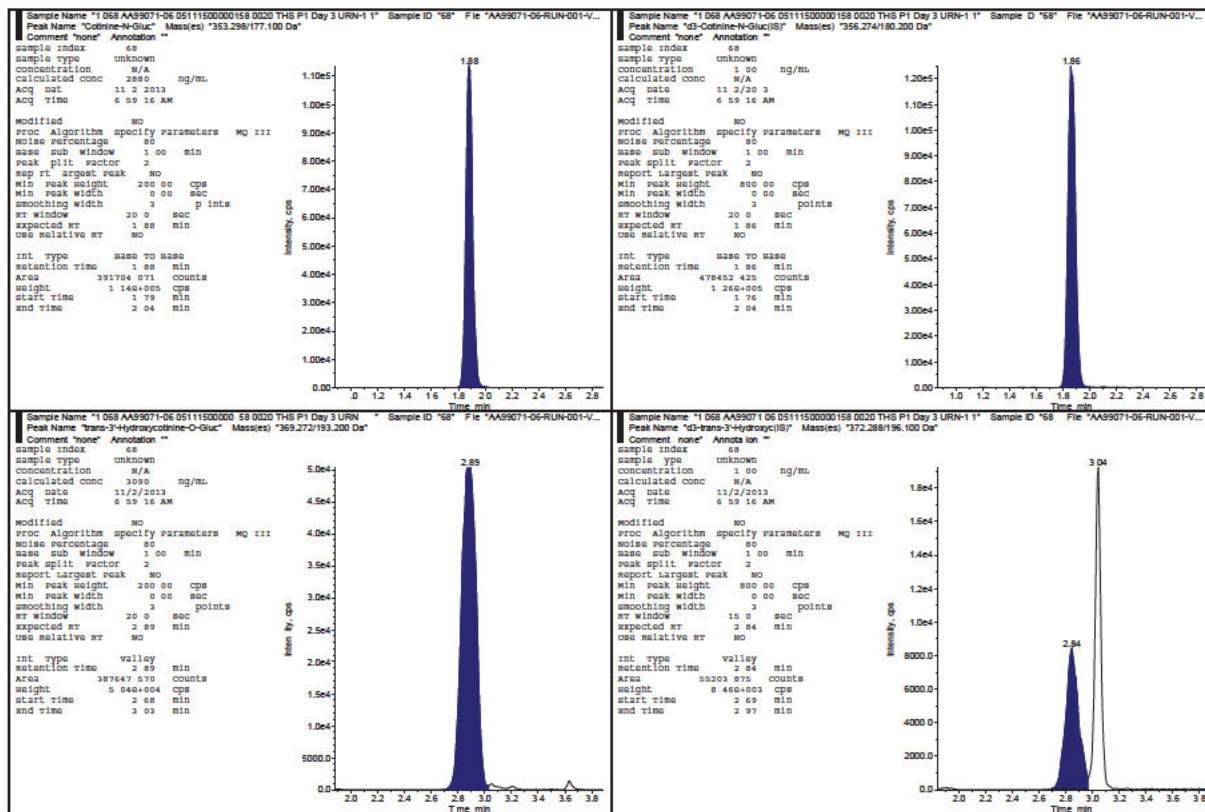


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





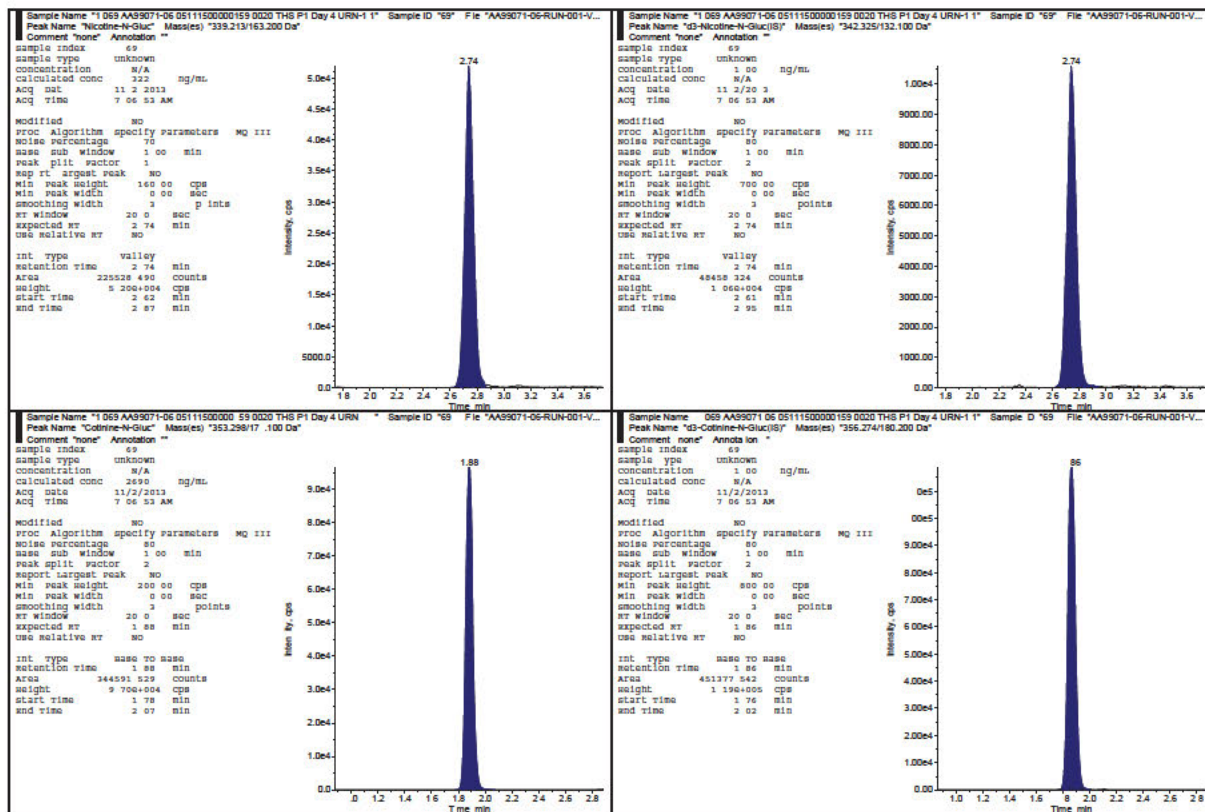
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





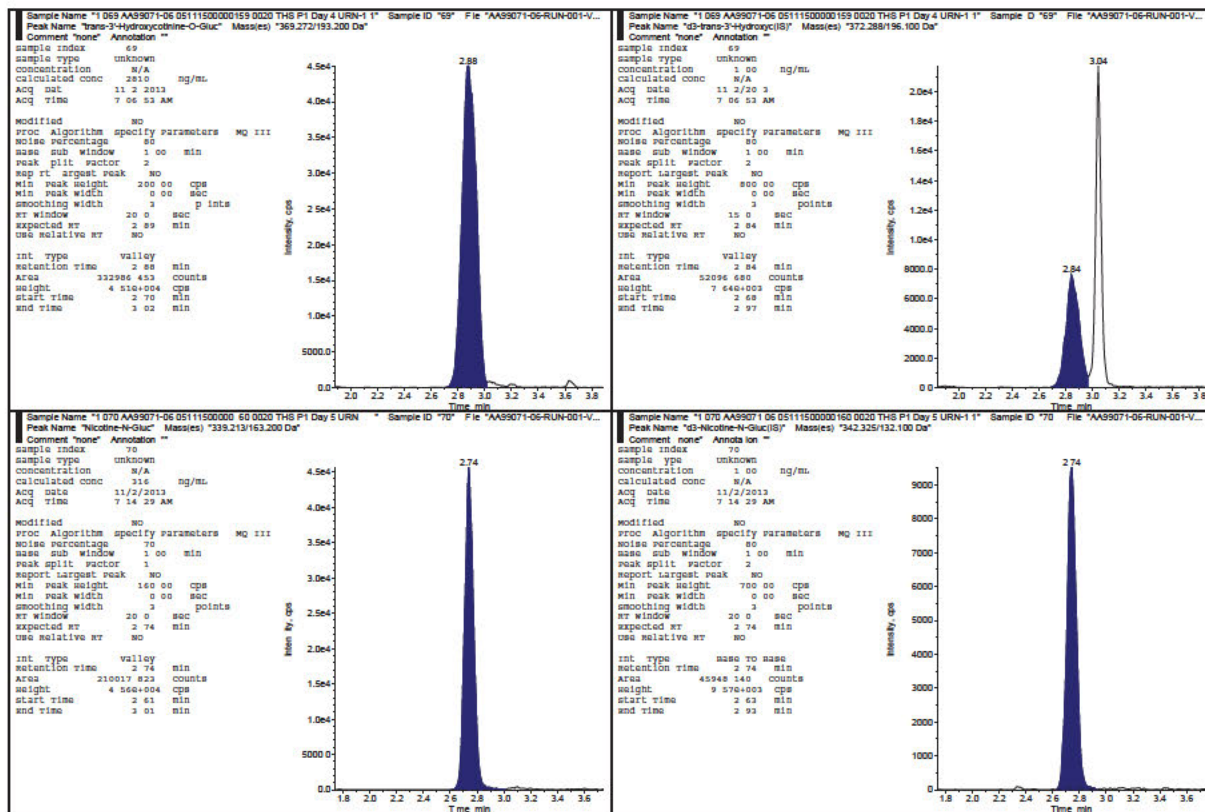


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



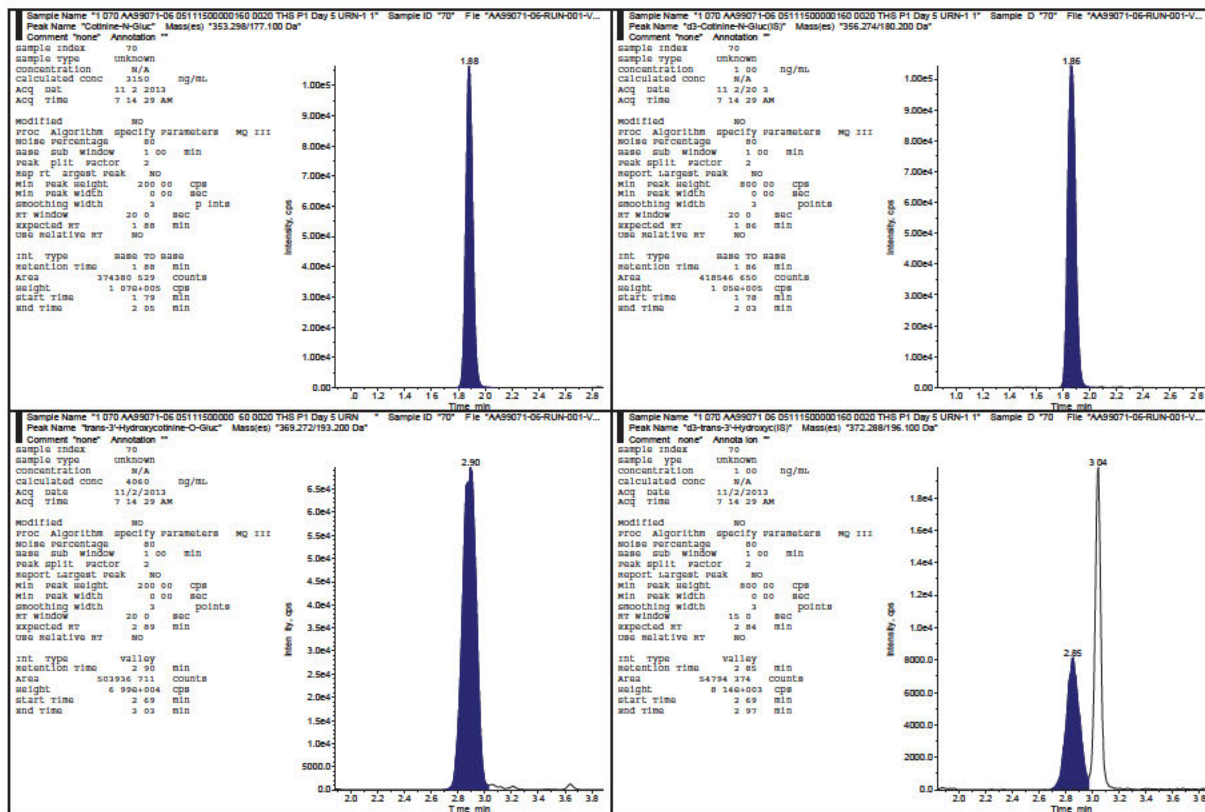


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



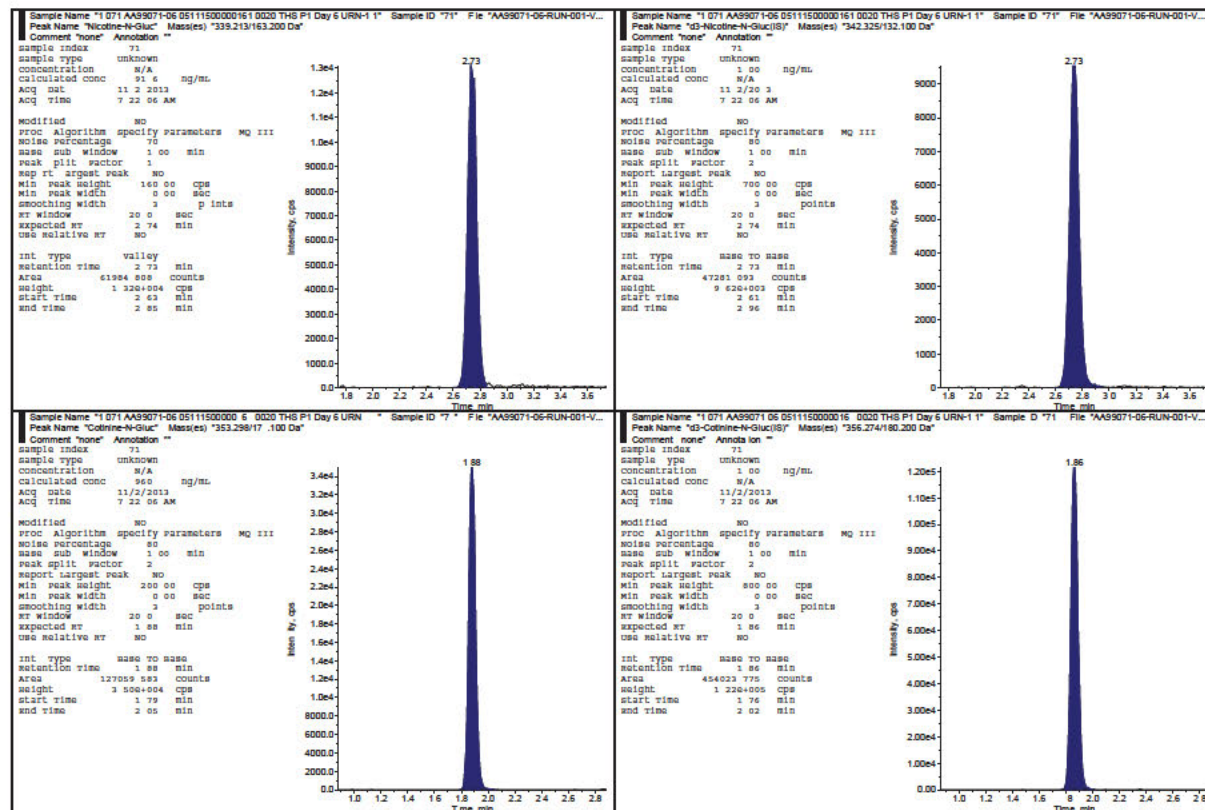


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





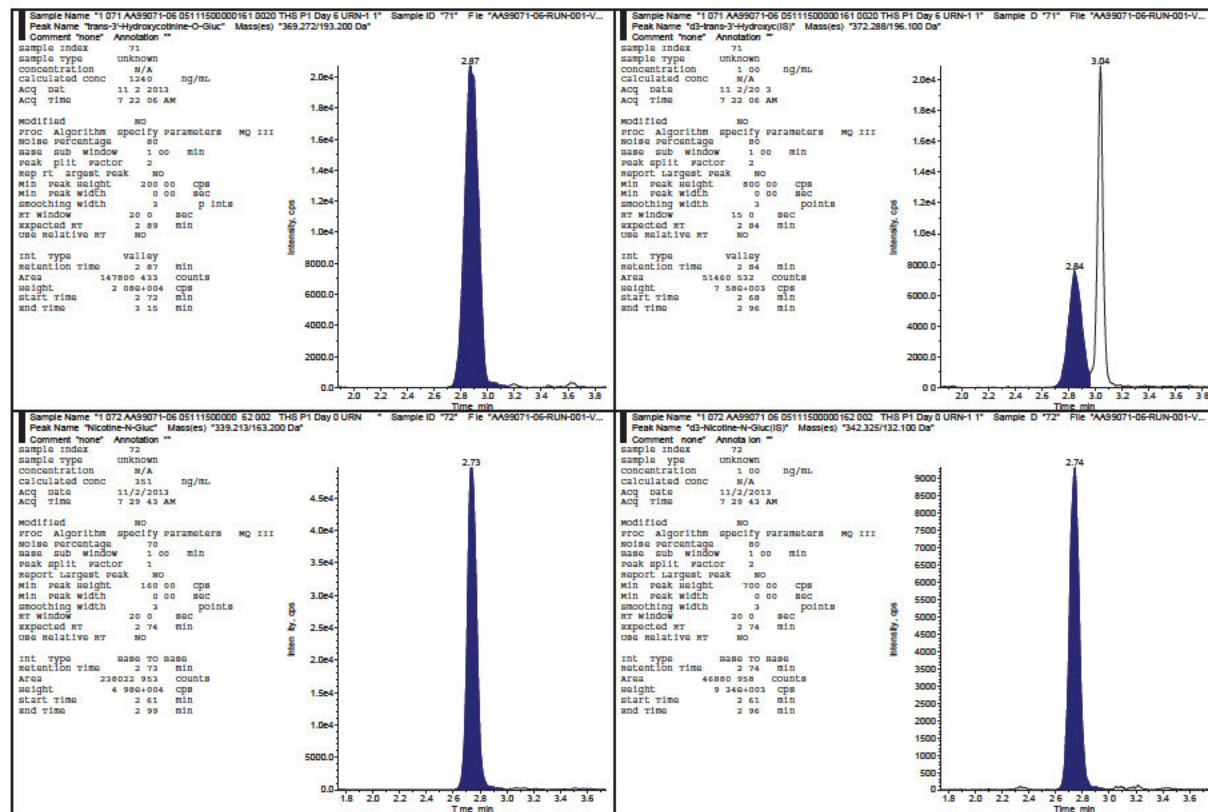
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





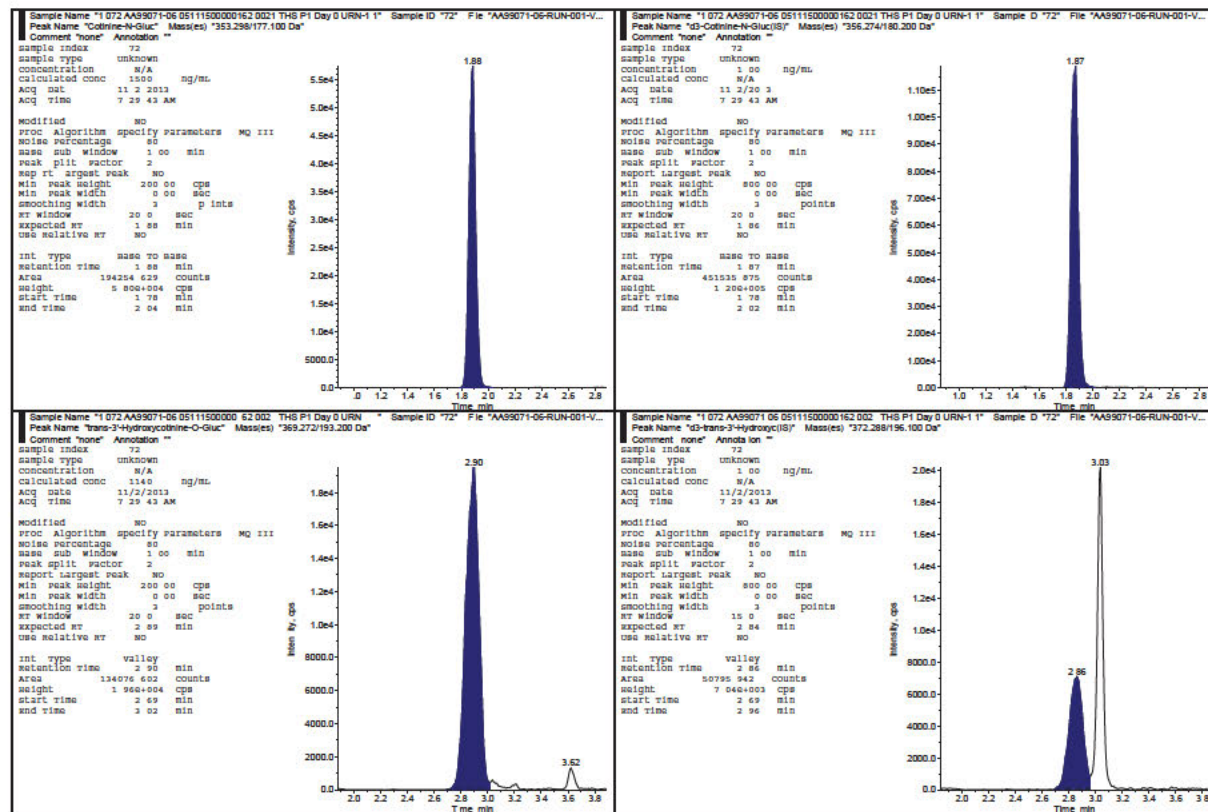


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



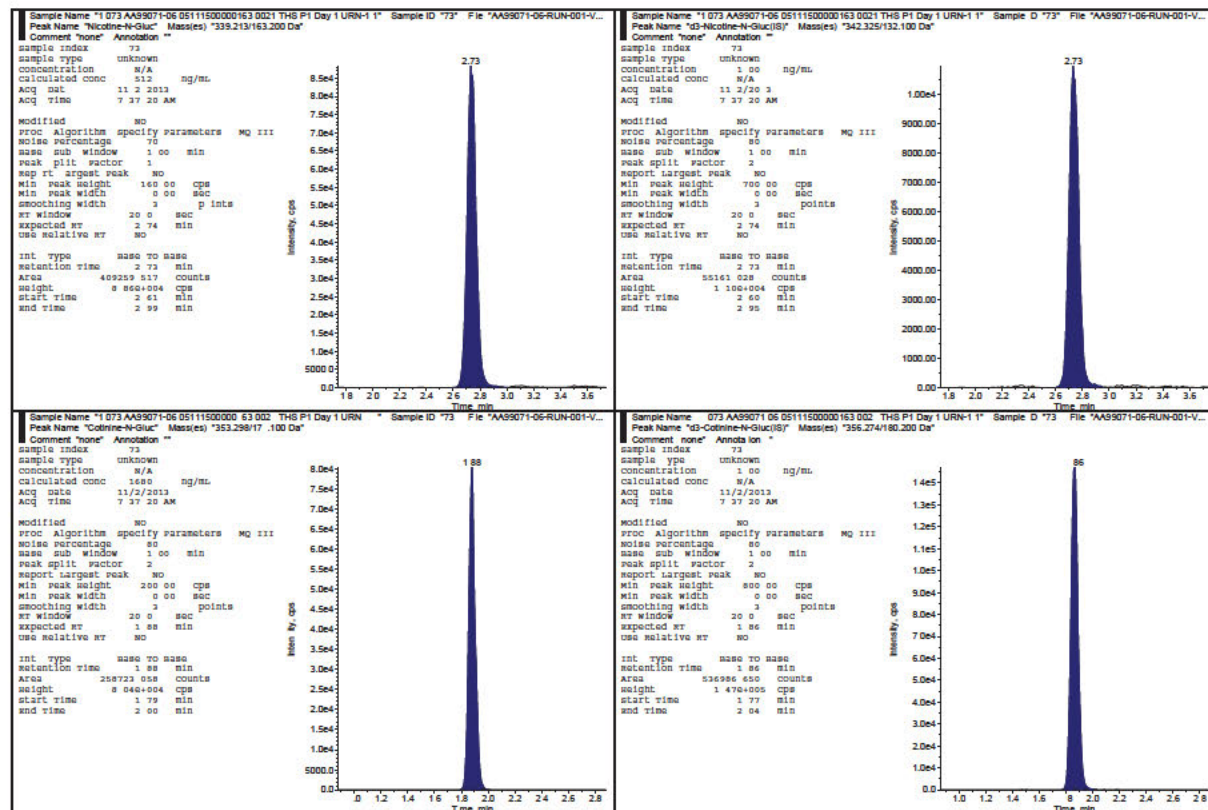


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



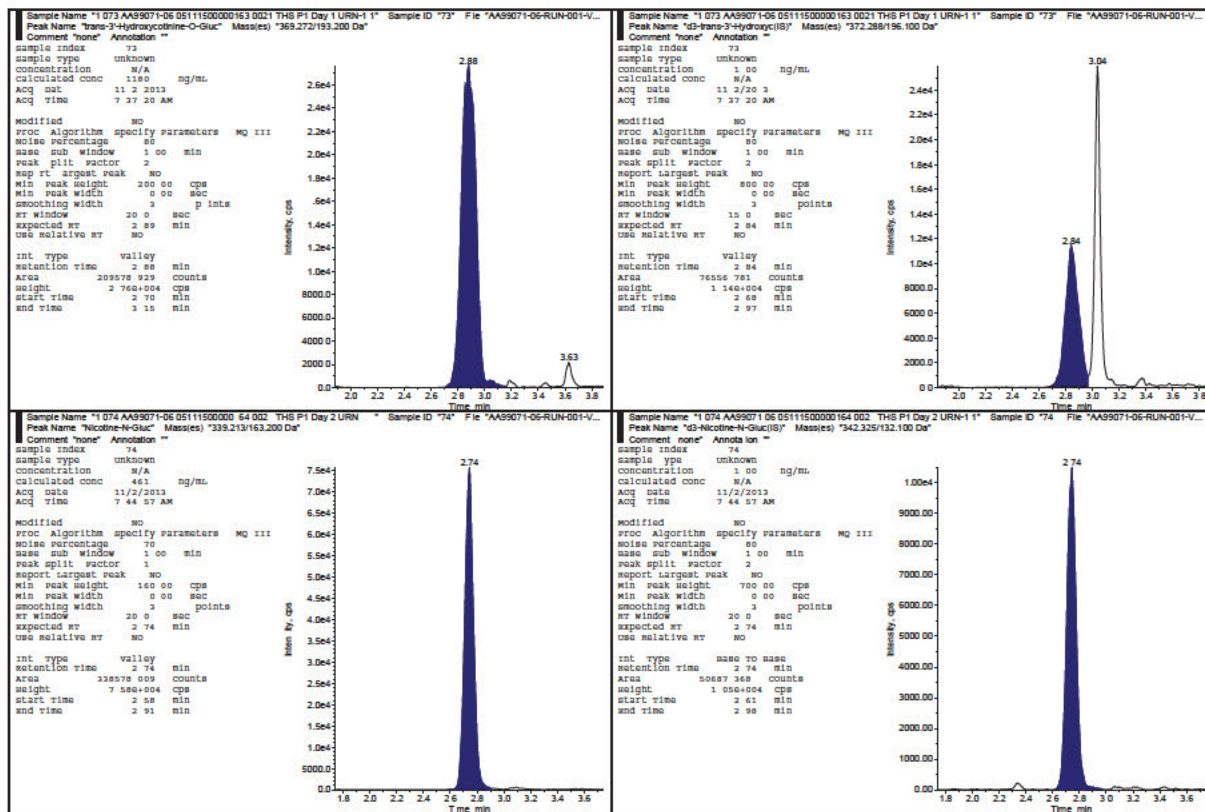


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





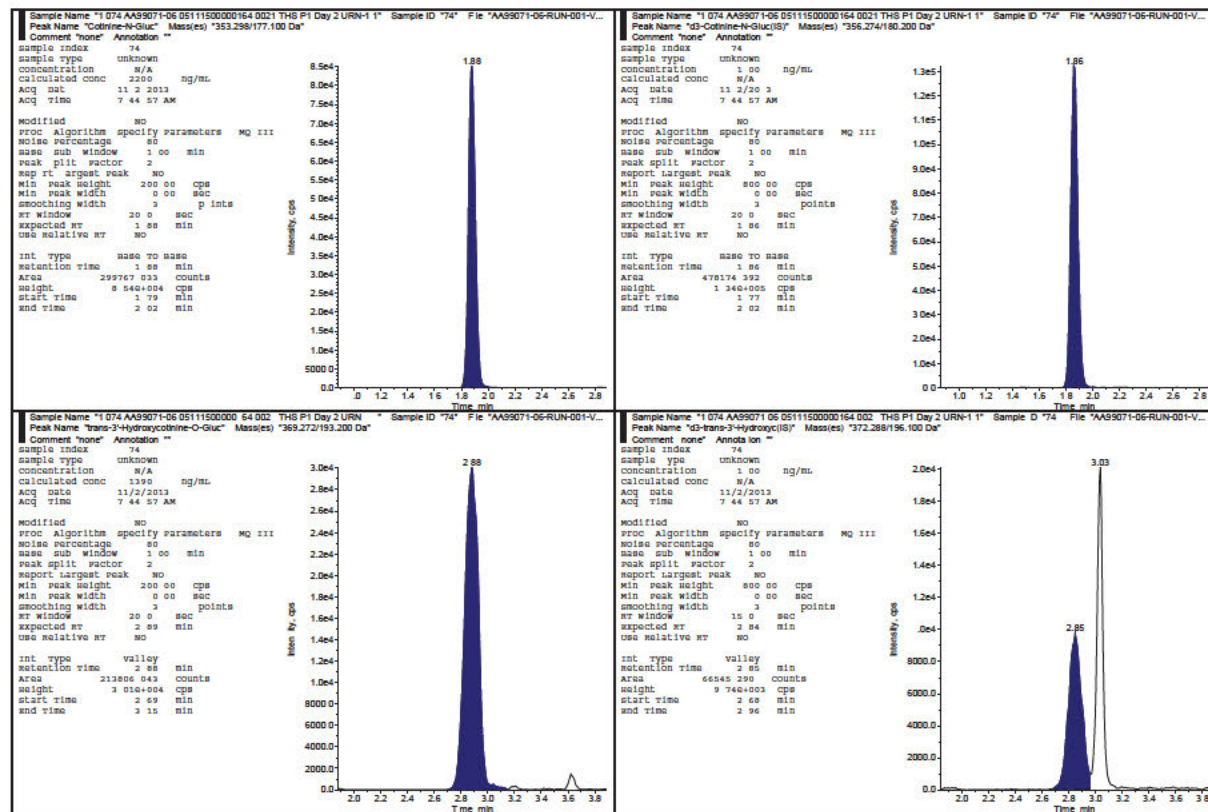
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





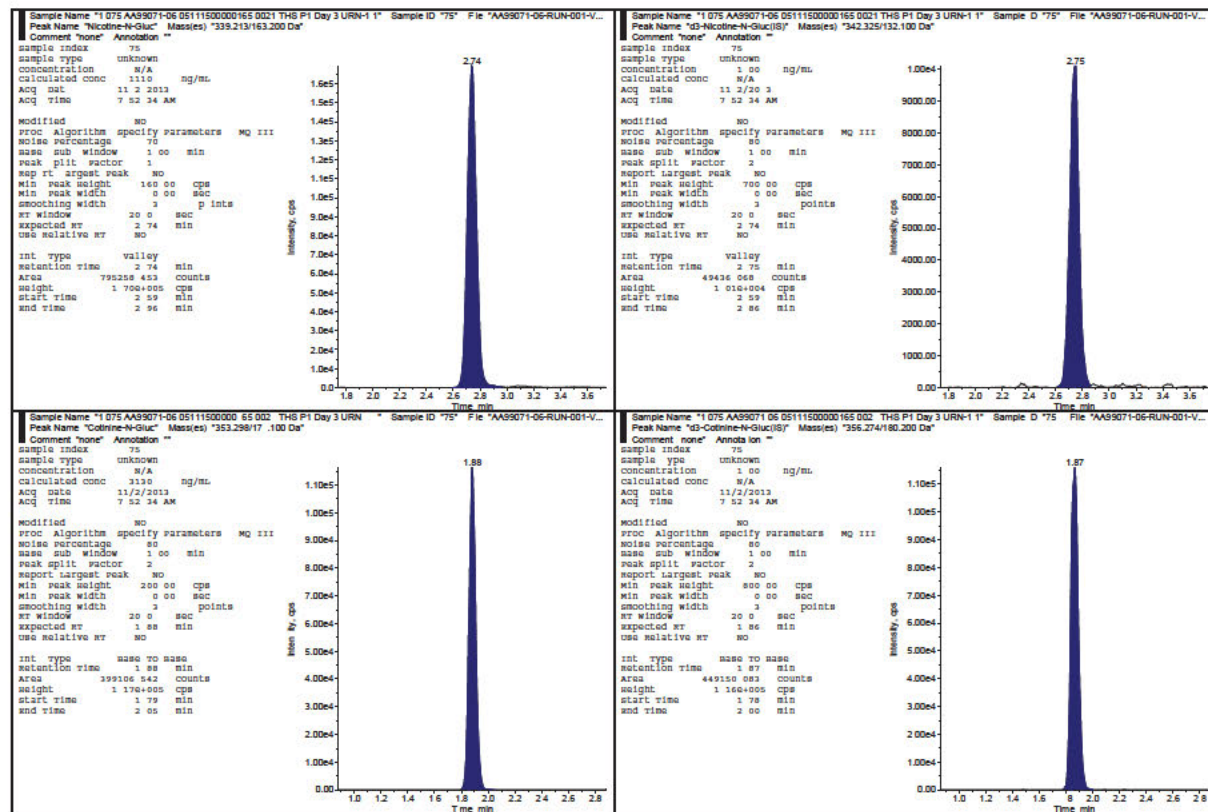


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



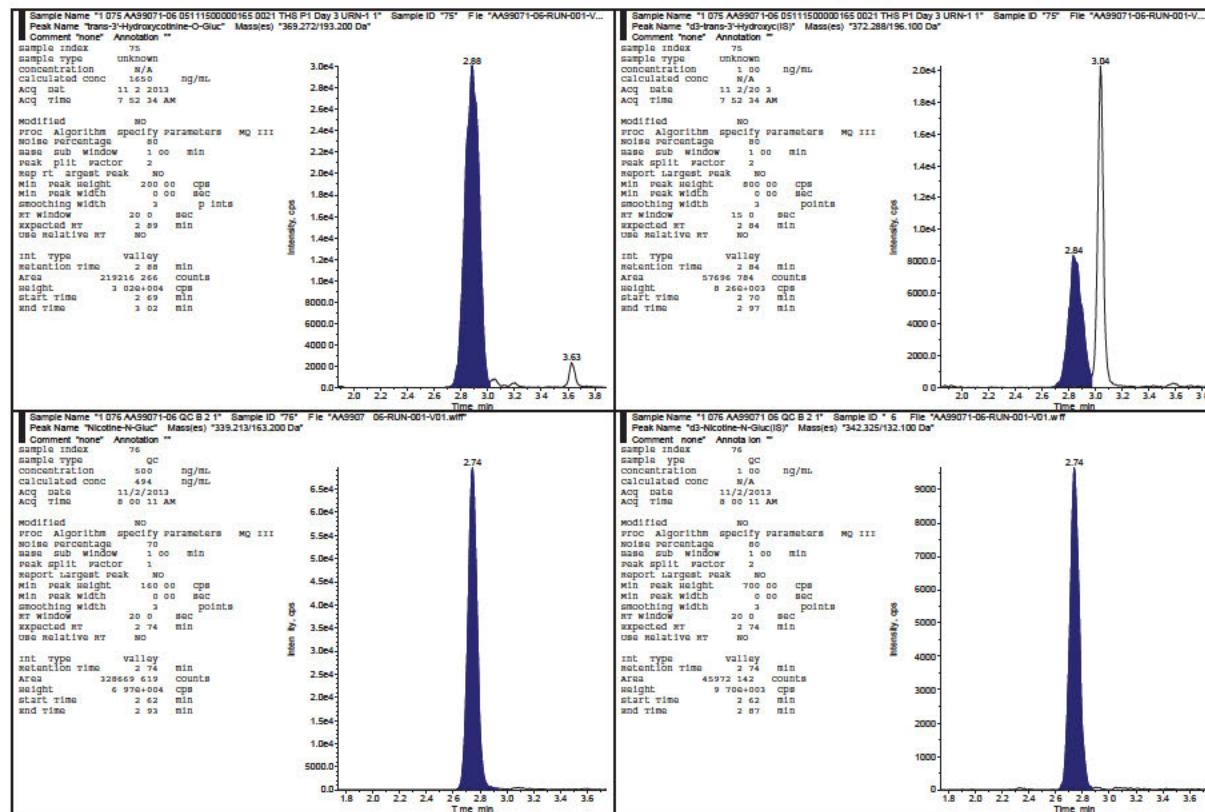


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



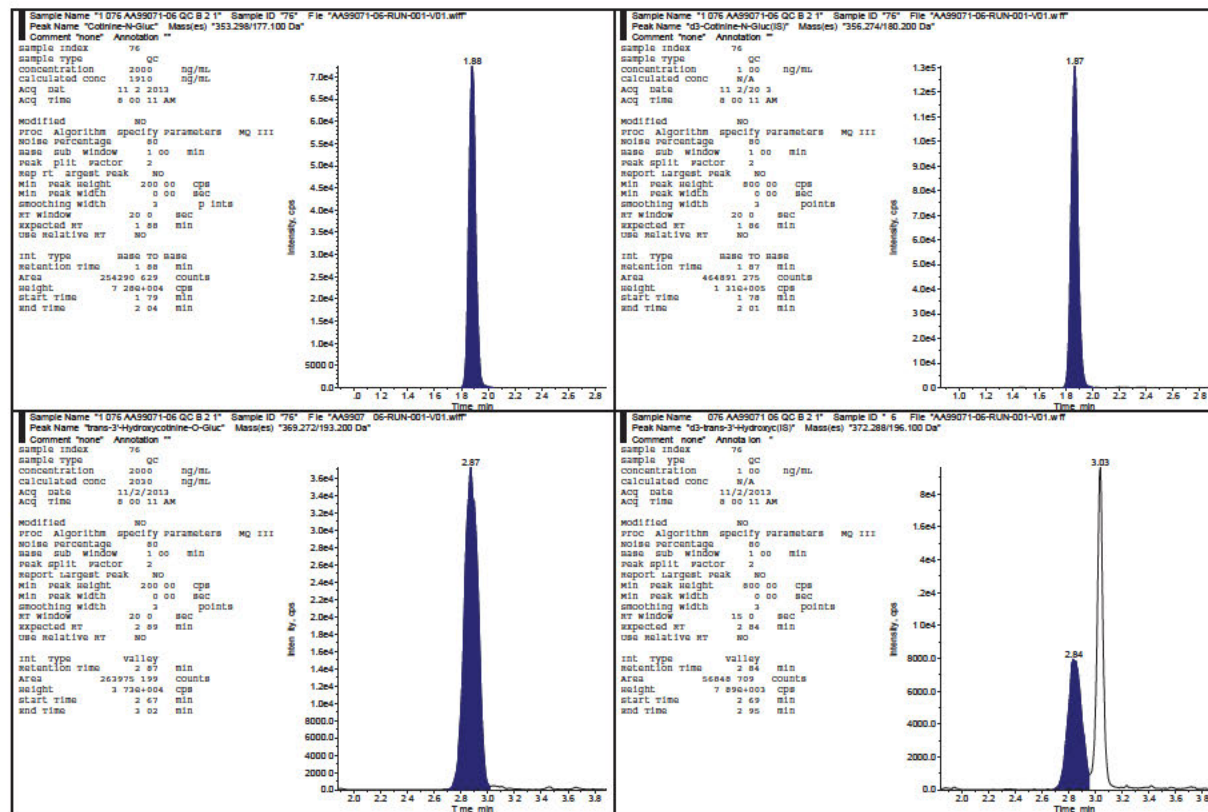


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





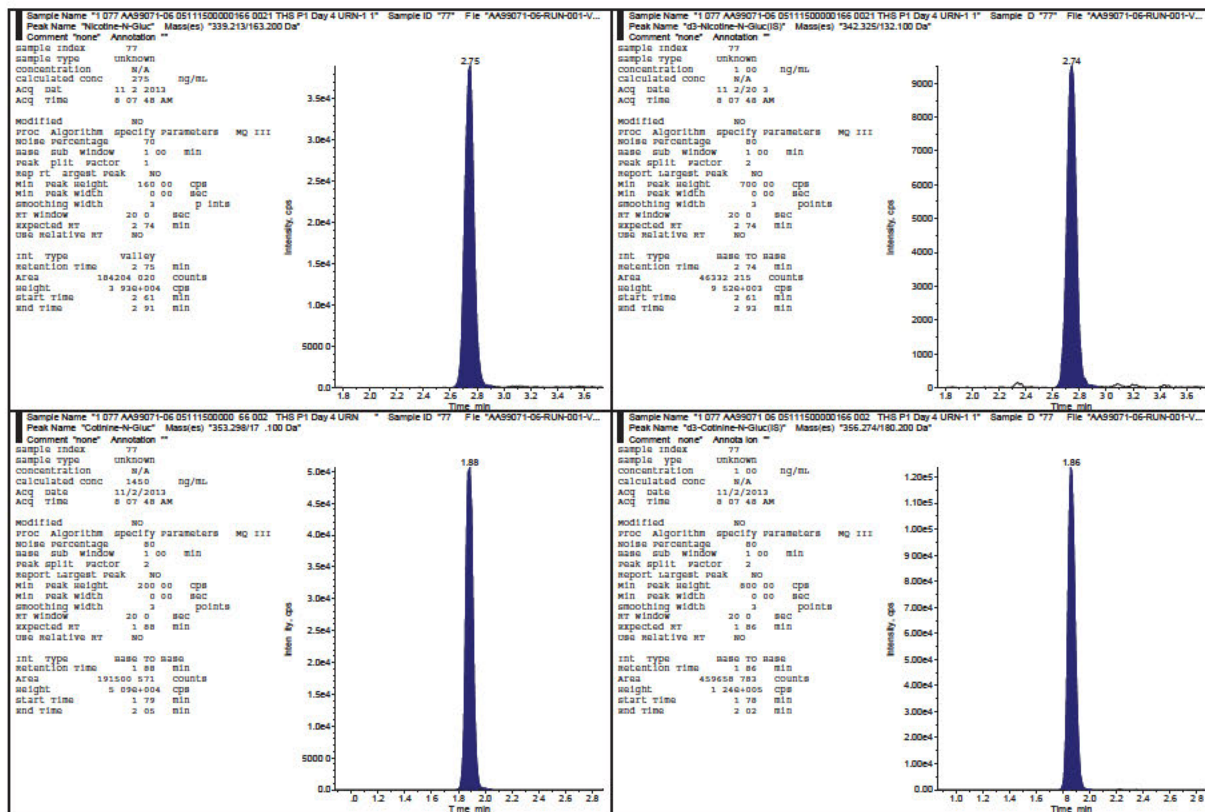
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





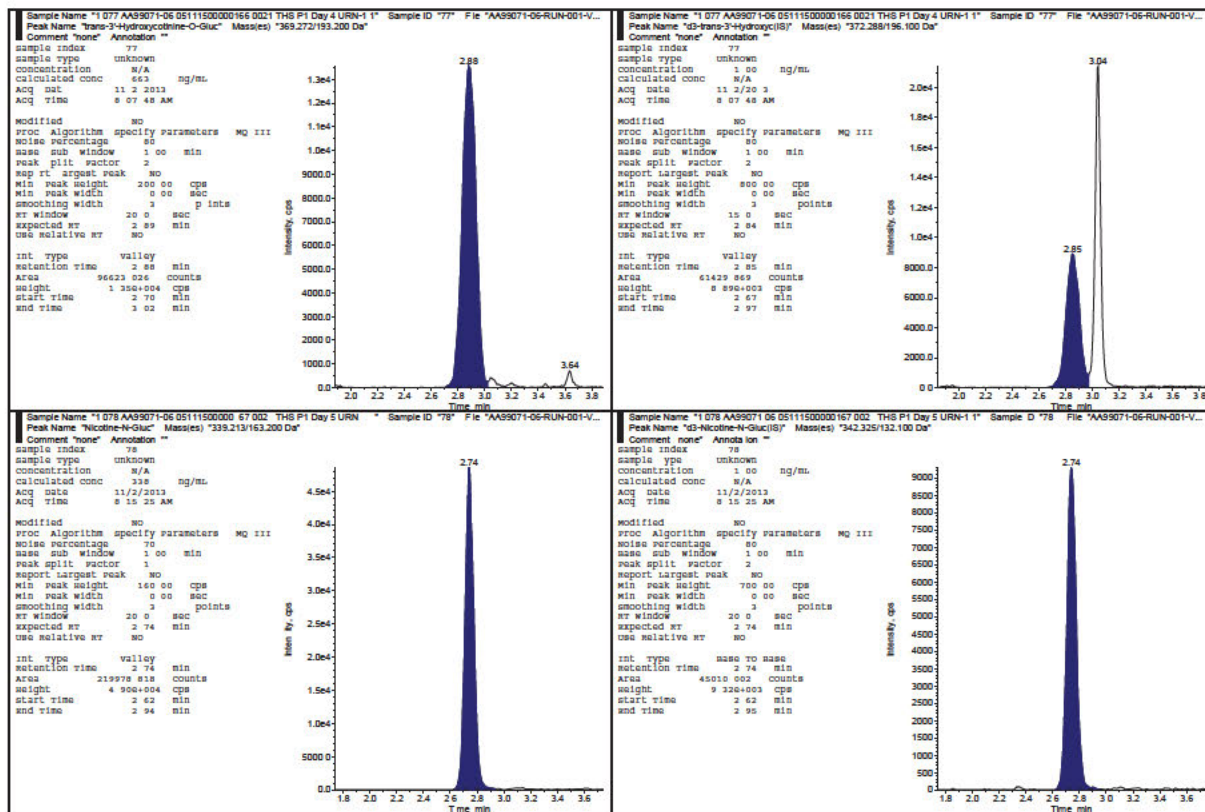


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



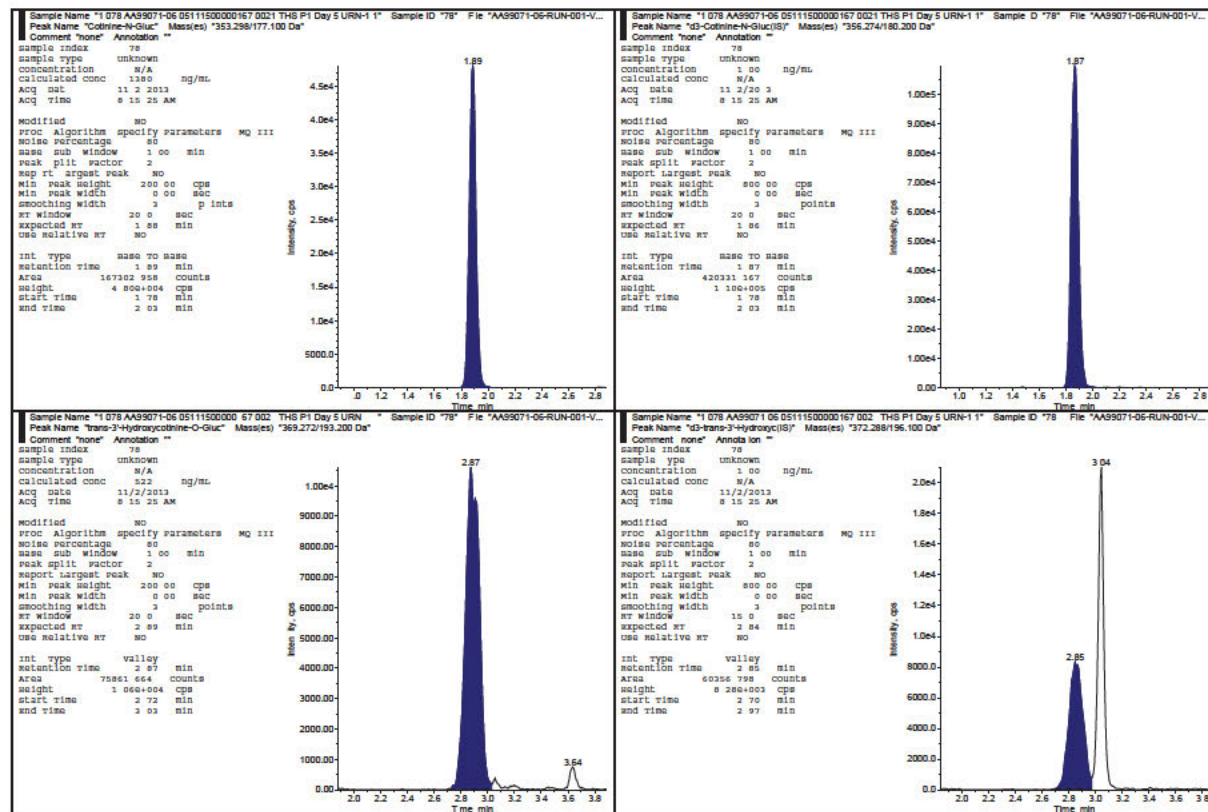


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



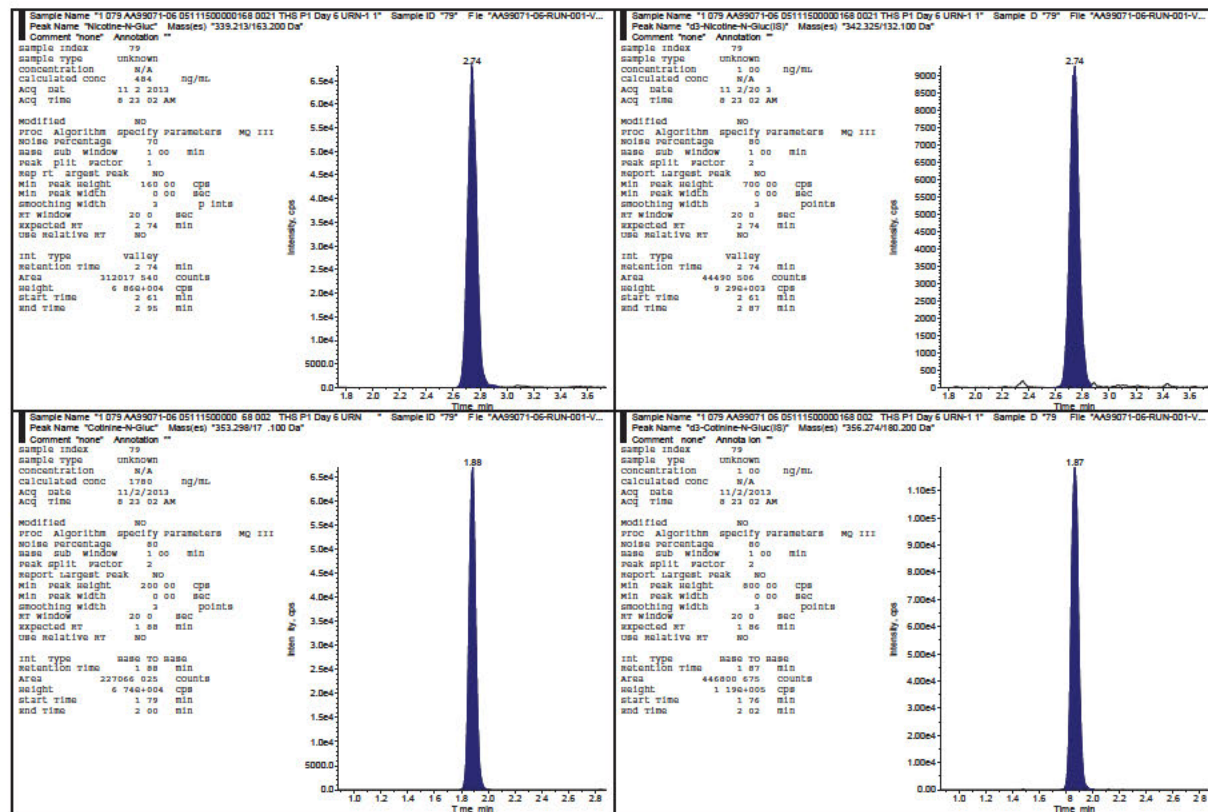


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





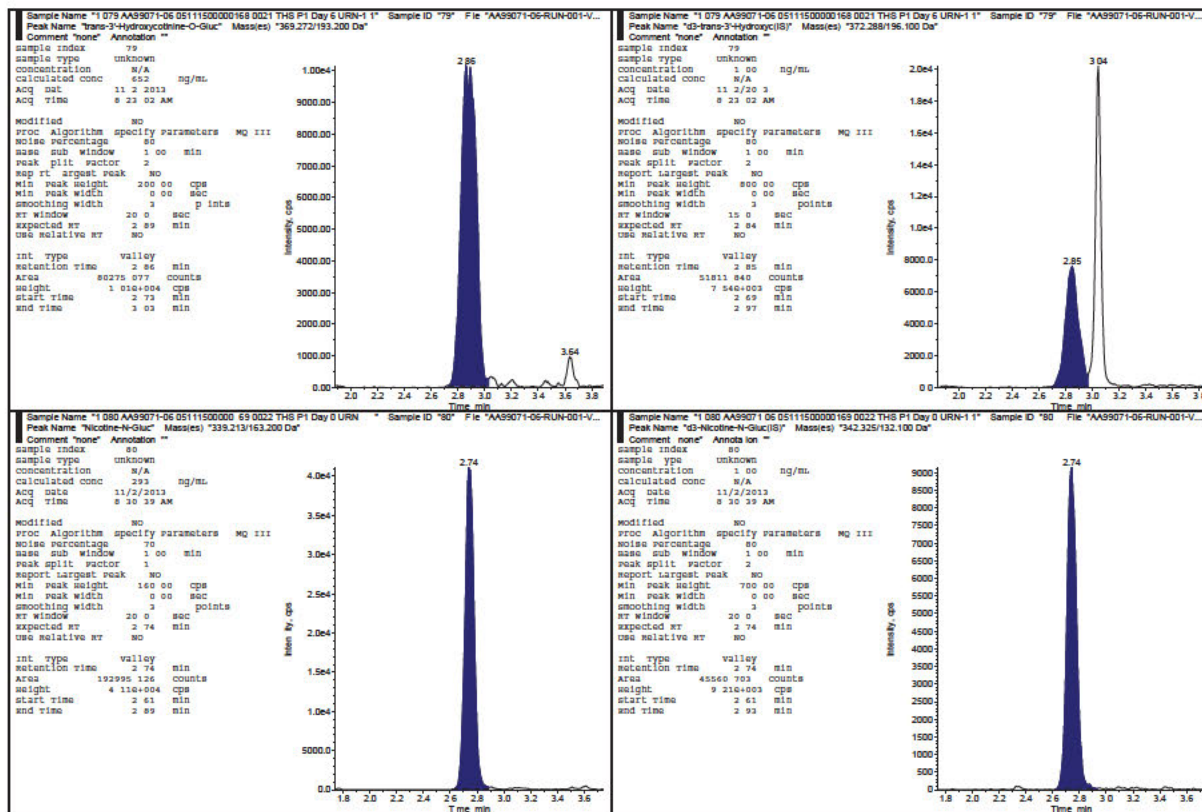
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





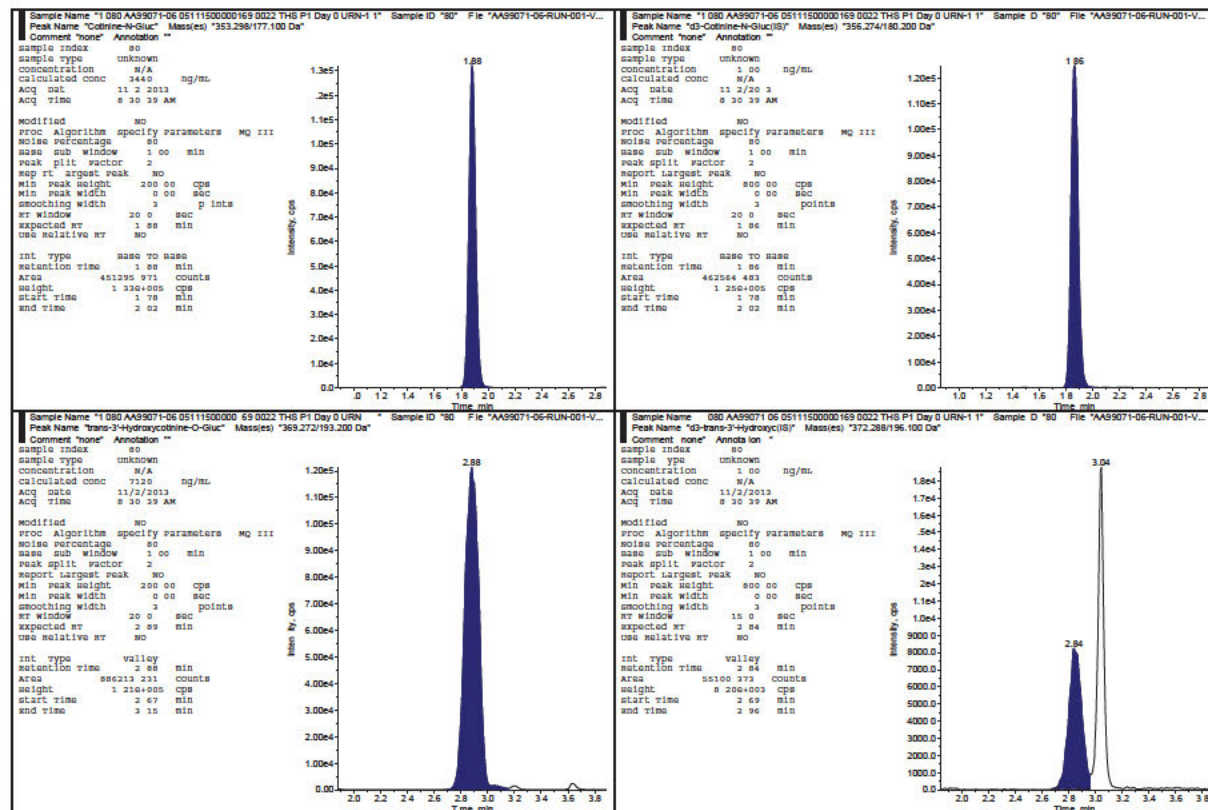


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



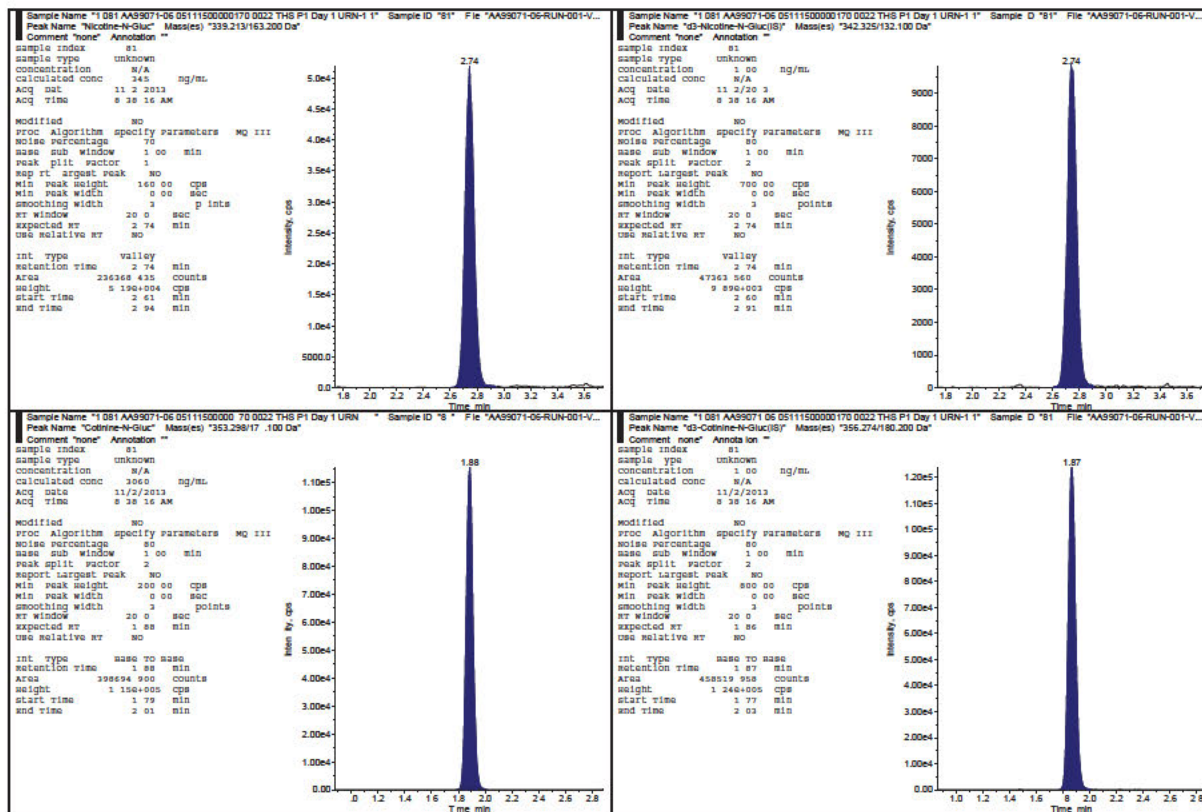


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



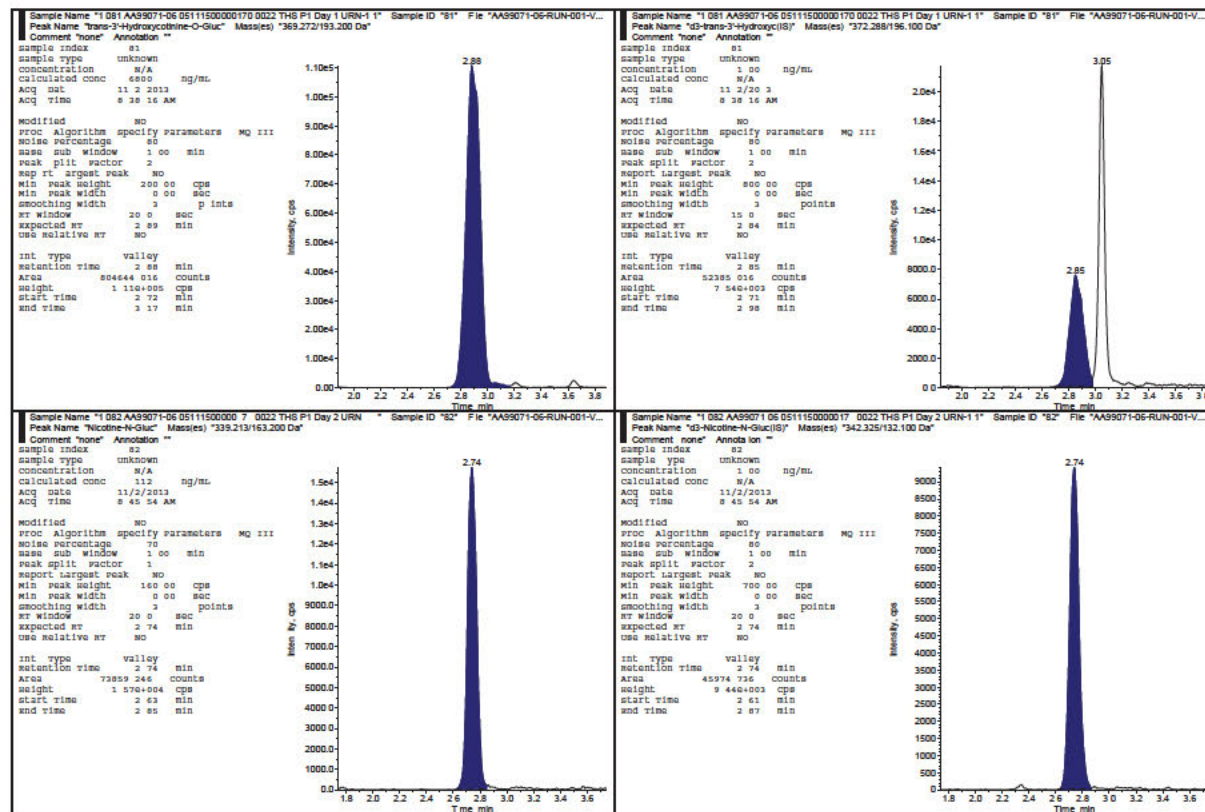


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06







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**Sample Name:** "1 082 AA99071-06 0511500000 171 0022 THS P1 Day2 URN-1 1" **Sample ID:** "82" **File:** "AA99071-06-RUN-001-V..."

**Peak Name:** "Cotinine-N-Glu" **Mass(es):** "353.298/177.100 Da"

**Comment:** "none" **Annotation:** ""

**Sample Index:** 82

**Sample Type:** unknown

**Concentration:** N/A ng/ml

**Calculated Conc:** 1730 ng/ml

**Acq Date:** 11/2/2013

**Acq Time:** 8:45:54 AM

**Modified:** NO

**Proc Algorithm:** specify parameters MQ III

**Noise Percentage:** 80

**Base Sub Window:** 1.00 min

**Peak Split Factor:** 2

**Report Largest Peak:** NO

**Min Peak Height:** 200.00 cps

**Min Peak Width:** 0.00 sec

**Smoothing Width:** 3 points

**RT Window:** 20.0 sec

**Expected RT:** 1.88 min

**Use Relative RT:** NO

**Int Type:** base to base

**Retention Time:** 1.88 min

**Area:** 23565.525 counts

**Height:** 6.64E+004 cps

**Start Time:** 1.79 min

**End Time:** 2.04 min

**Intensity (cps):** 5.5E4, 5.0E4, 4.5E4, 4.0E4, 3.5E4, 3.0E4, 2.5E4, 2.0E4, 1.5E4, 1.0E4, 5000.0

**Time (min):** 0.0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0

**Sample Name:** "1 082 AA99071-06 0511500000 171 0022 THS P1 Day2 URN-1 1" **Sample ID:** "82" **File:** "AA99071-06-RUN-001-V..."

**Peak Name:** "d3-Cotinine-N-Glu(8)" **Mass(es):** "356.274/180.200 Da"

**Comment:** "none" **Annotation:** ""

**Sample Index:** 82

**Sample Type:** unknown

**Concentration:** 1.00 ng/ml

**Calculated Conc:** N/A

**Acq Date:** 11/2/2013

**Acq Time:** 8:45:54 AM

**Modified:** NO

**Proc Algorithm:** specify parameters MQ III

**Noise Percentage:** 80

**Base Sub Window:** 1.00 min

**Peak Split Factor:** 2

**Report Largest Peak:** NO

**Min Peak Height:** 800.00 cps

**Min Peak Width:** 0.00 sec

**Smoothing Width:** 3 points

**RT Window:** 20.0 sec

**Expected RT:** 1.86 min

**Use Relative RT:** NO

**Int Type:** base to base

**Retention Time:** 1.86 min

**Area:** 47054.750 counts

**Height:** 1.29E+005 cps

**Start Time:** 1.76 min

**End Time:** 2.00 min

**Intensity (cps):** 1.20E5, 1.10E5, 1.00E5, 9.00E4, 8.00E4, 7.00E4, 6.00E4, 5.00E4, 4.00E4, 3.00E4, 2.00E4, 1.00E4, 0.0

**Time (min):** 1.0, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2, 2.4, 2.6, 2.8, 3.0

**Sample Name:** "1 082 AA99071-06 0511500000 171 0022 THS P1 Day2 URN-1 1" **Sample ID:** "82" **File:** "AA99071-06-RUN-001-V..."

**Peak Name:** "trans-3-Hydroxycotinine-N-Glu" **Mass(es):** "369.272/193.200 Da"

**Comment:** "none" **Annotation:** ""

**Sample Index:** 82

**Sample Type:** unknown

**Concentration:** N/A ng/ml

**Calculated Conc:** 3300 ng/ml

**Acq Date:** 11/2/2013

**Acq Time:** 8:45:54 AM

**Modified:** NO

**Proc Algorithm:** specify parameters MQ III

**Noise Percentage:** 80

**Base Sub Window:** 1.00 min

**Peak Split Factor:** 2

**Report Largest Peak:** NO

**Min Peak Height:** 200.00 cps

**Min Peak Width:** 0.00 sec

**Smoothing Width:** 3 points

**RT Window:** 20.0 sec

**Expected RT:** 2.89 min

**Use Relative RT:** NO

**Int Type:** valley

**Retention Time:** 2.89 min

**Area:** 401849.655 counts

**Height:** 8.70E+004 cps

**Start Time:** 2.68 min

**End Time:** 3.02 min

**Intensity (cps):** 5.5E4, 5.0E4, 4.5E4, 4.0E4, 3.5E4, 3.0E4, 2.5E4, 2.0E4, 1.5E4, 1.0E4, 5000.0

**Time (min):** 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8

**Sample Name:** "1 082 AA99071-06 0511500000 171 0022 THS P1 Day2 URN-1 1" **Sample ID:** "82" **File:** "AA99071-06-RUN-001-V..."

**Peak Name:** "d3-trans-3-Hydroxy(8)" **Mass(es):** "372.288/198.100 Da"

**Comment:** "none" **Annotation:** ""

**Sample Index:** 82

**Sample Type:** unknown

**Concentration:** N/A ng/ml

**Calculated Conc:** N/A

**Acq Date:** 11/2/2013

**Acq Time:** 8:45:54 AM

**Modified:** NO

**Proc Algorithm:** specify parameters MQ III

**Noise Percentage:** 80

**Base Sub Window:** 1.00 min

**Peak Split Factor:** 2

**Report Largest Peak:** NO

**Min Peak Height:** 800.00 cps

**Min Peak Width:** 0.00 sec

**Smoothing Width:** 3 points

**RT Window:** 15.0 sec

**Expected RT:** 2.84 min

**Use Relative RT:** NO

**Int Type:** valley

**Retention Time:** 2.84 min

**Area:** 53559.466 counts

**Height:** 7.61E+003 cps

**Start Time:** 2.68 min

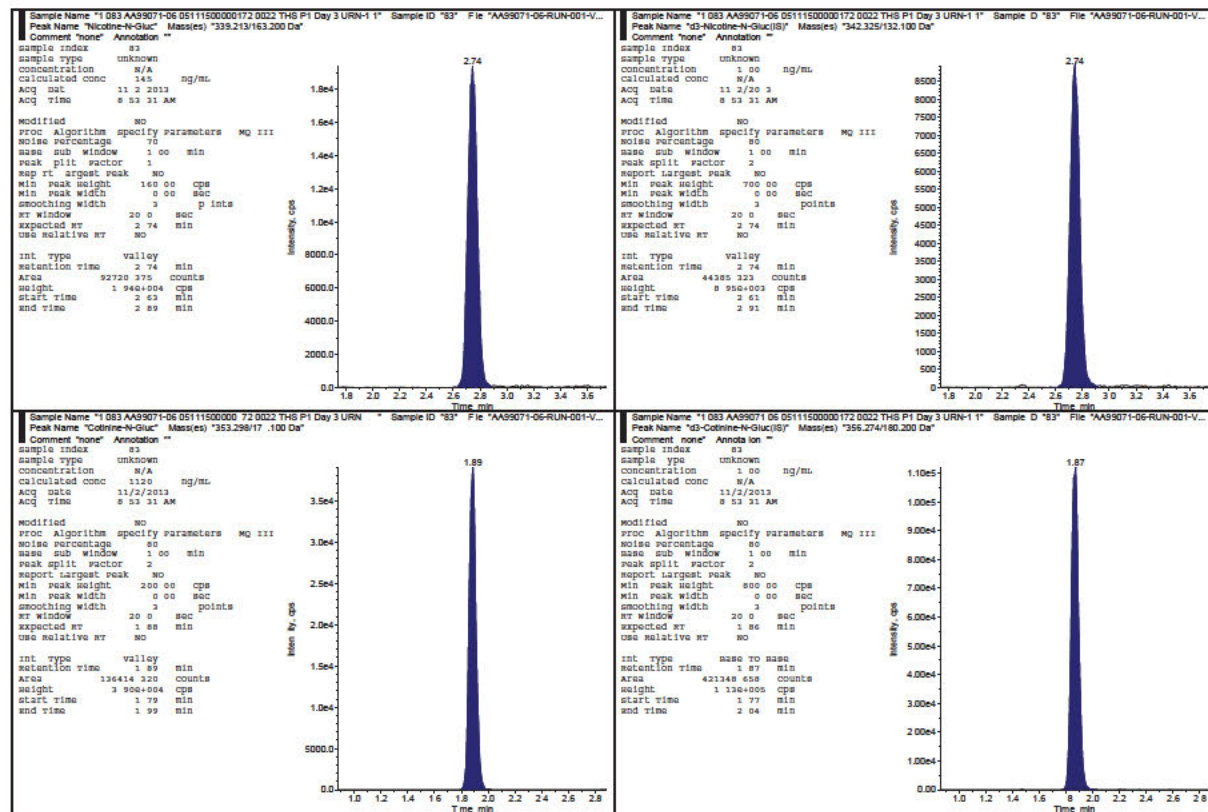
**End Time:** 2.95 min

**Intensity (cps):** 1.8E4, 1.7E4, 1.6E4, 1.5E4, 1.4E4, 1.3E4, 1.2E4, 1.1E4, 1.0E4, 9000.0, 8000.0, 7000.0, 6000.0, 5000.0, 4000.0, 3000.0, 2000.0, 1000.0, 0.0

**Time (min):** 2.0, 2.2, 2.4, 2.6, 2.8, 3.0, 3.2, 3.4, 3.6, 3.8

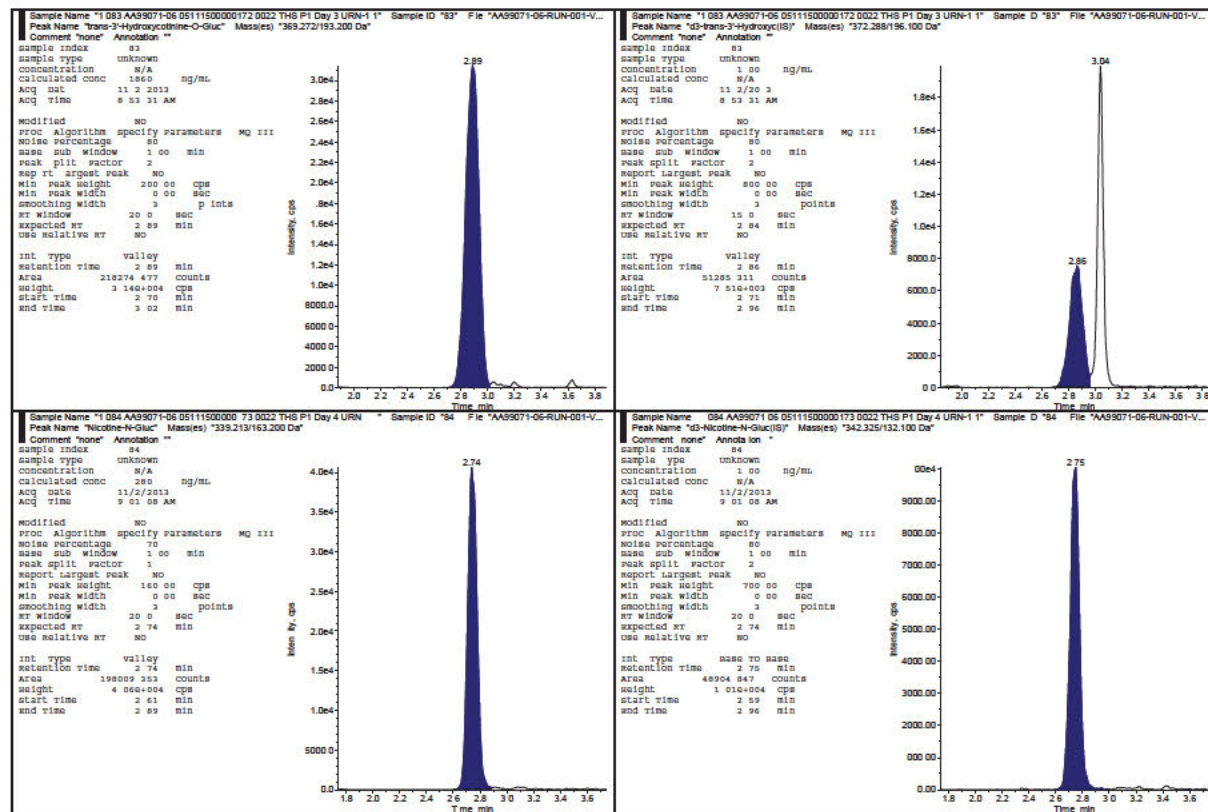


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



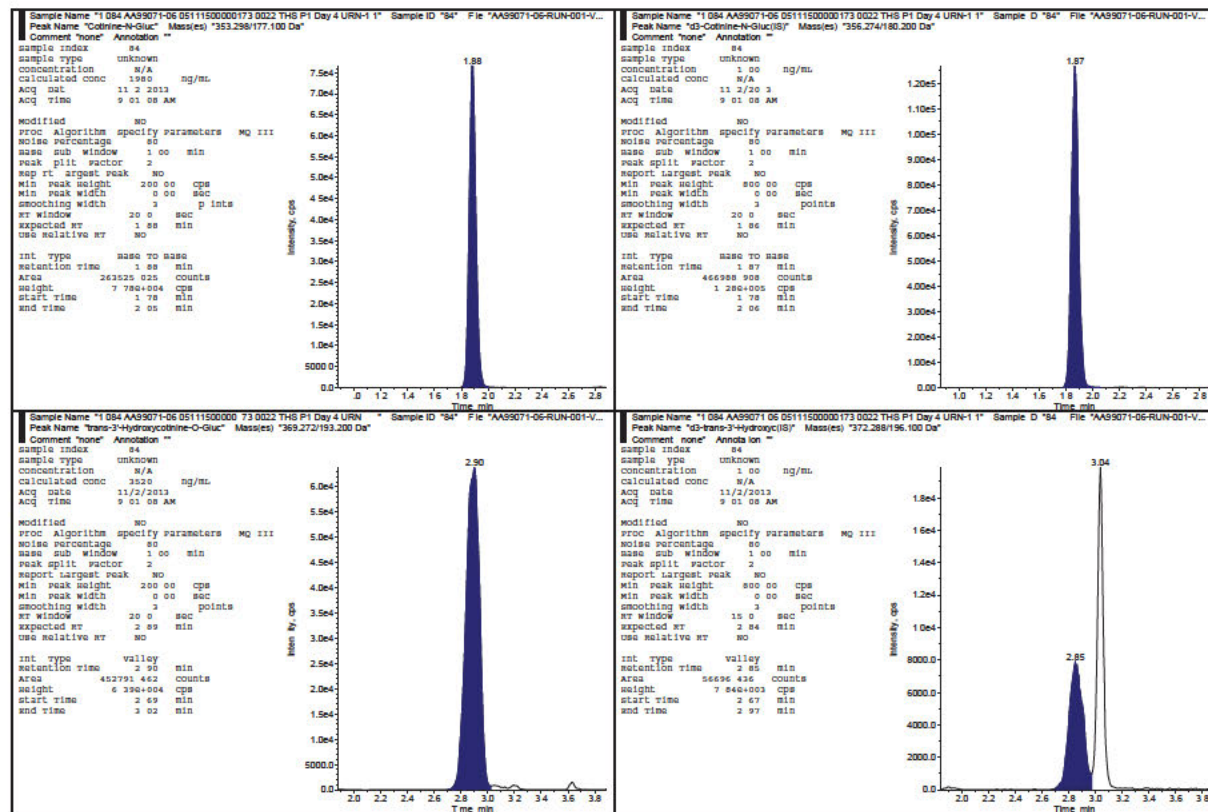


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celention Study AA99071-06





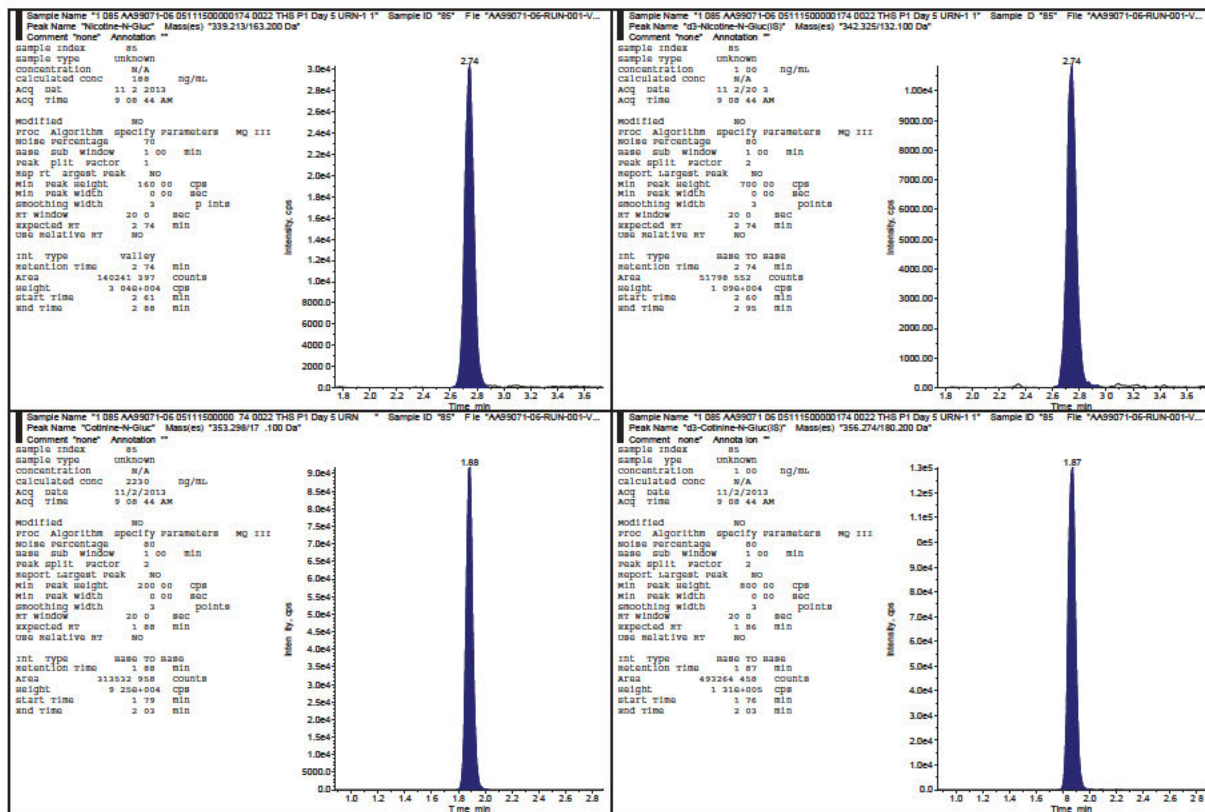
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





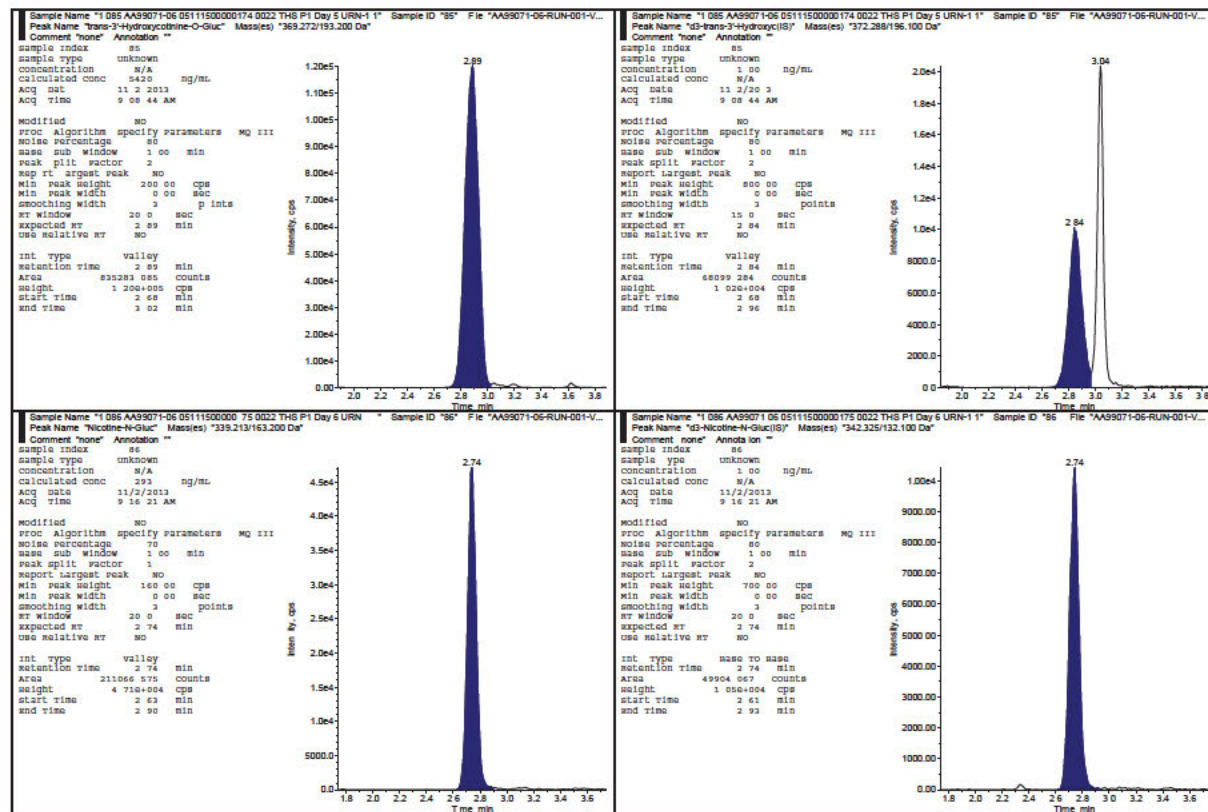


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



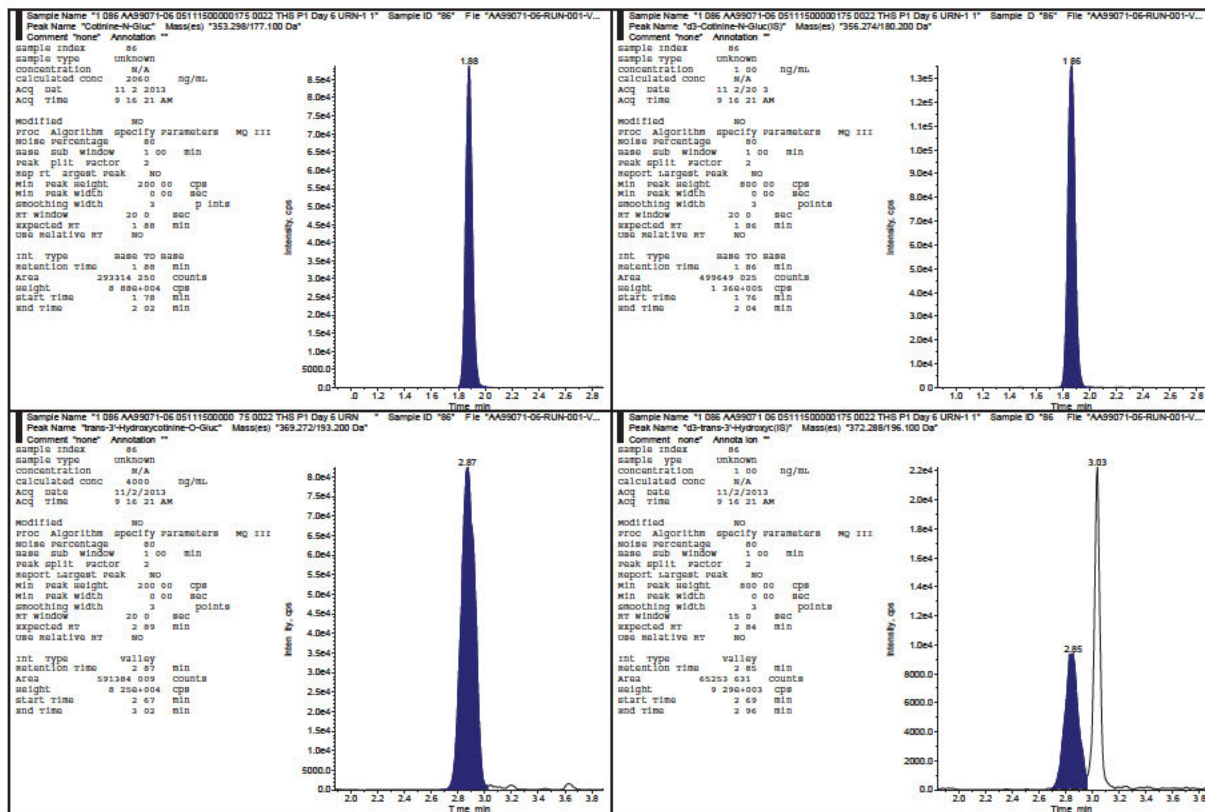


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



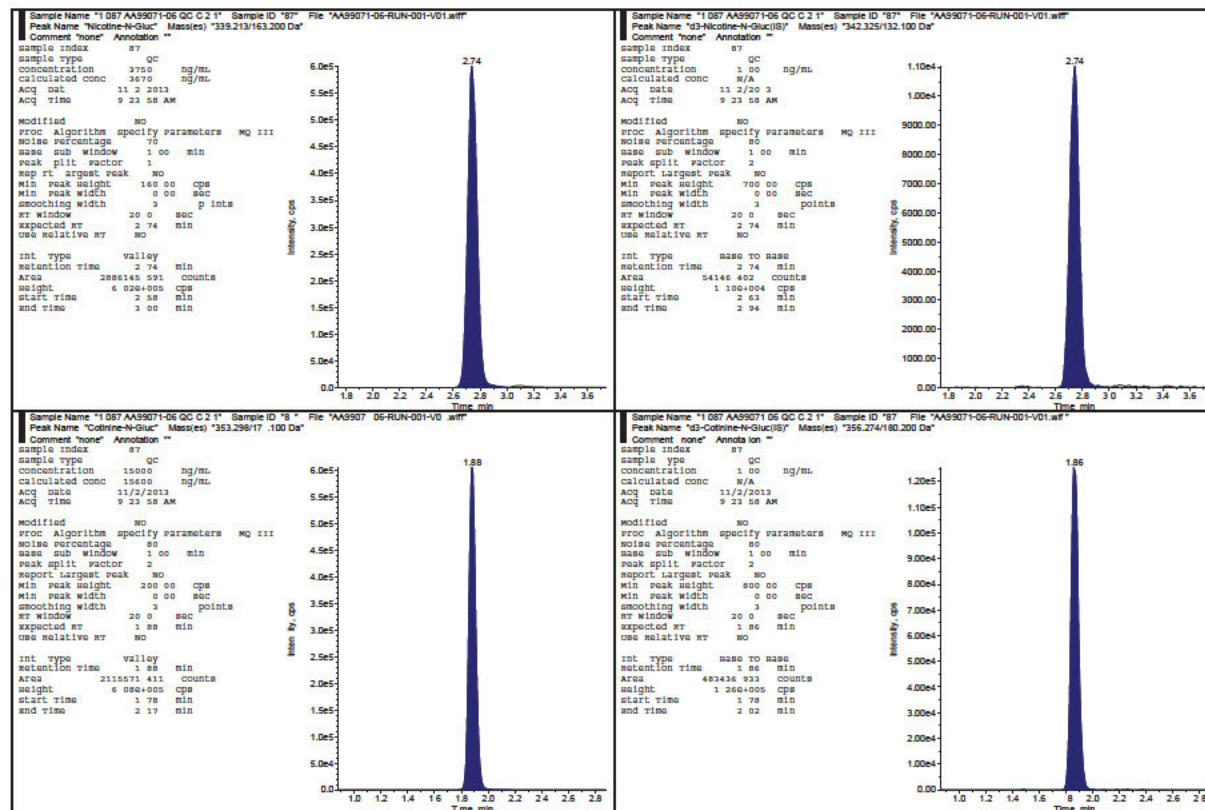


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





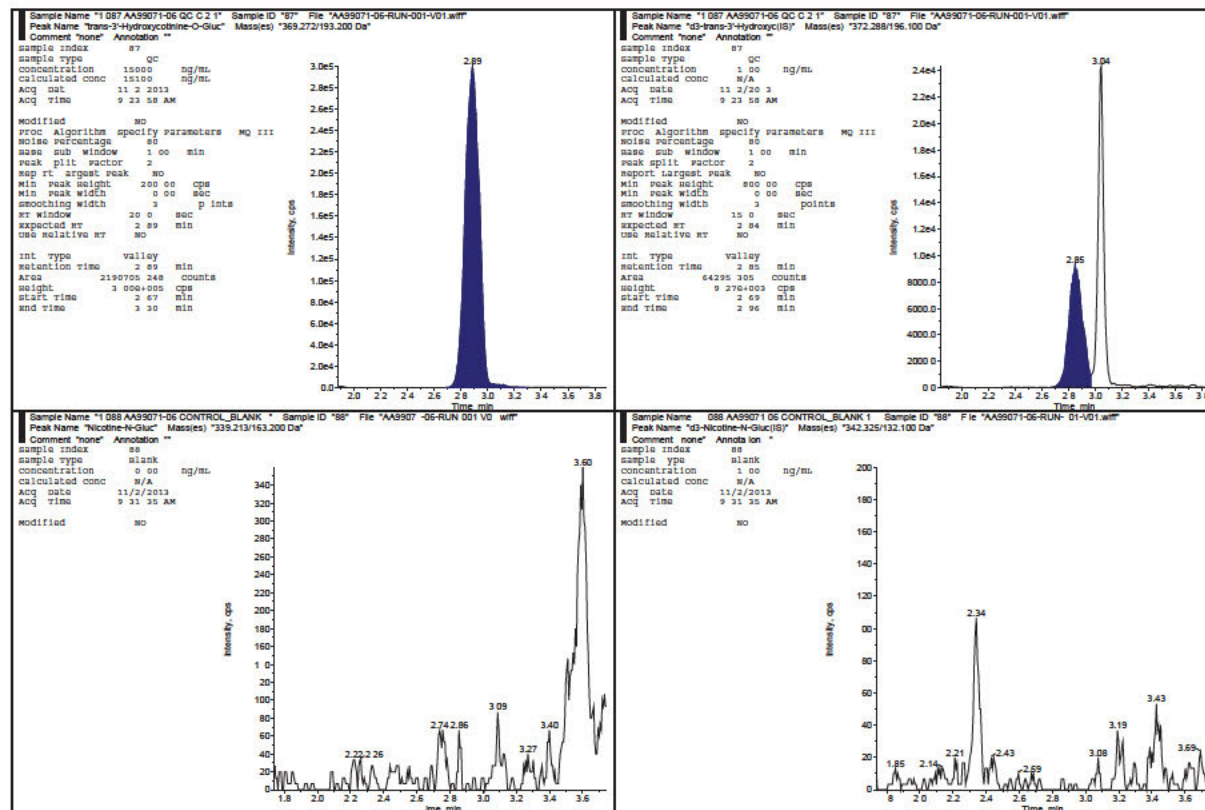
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





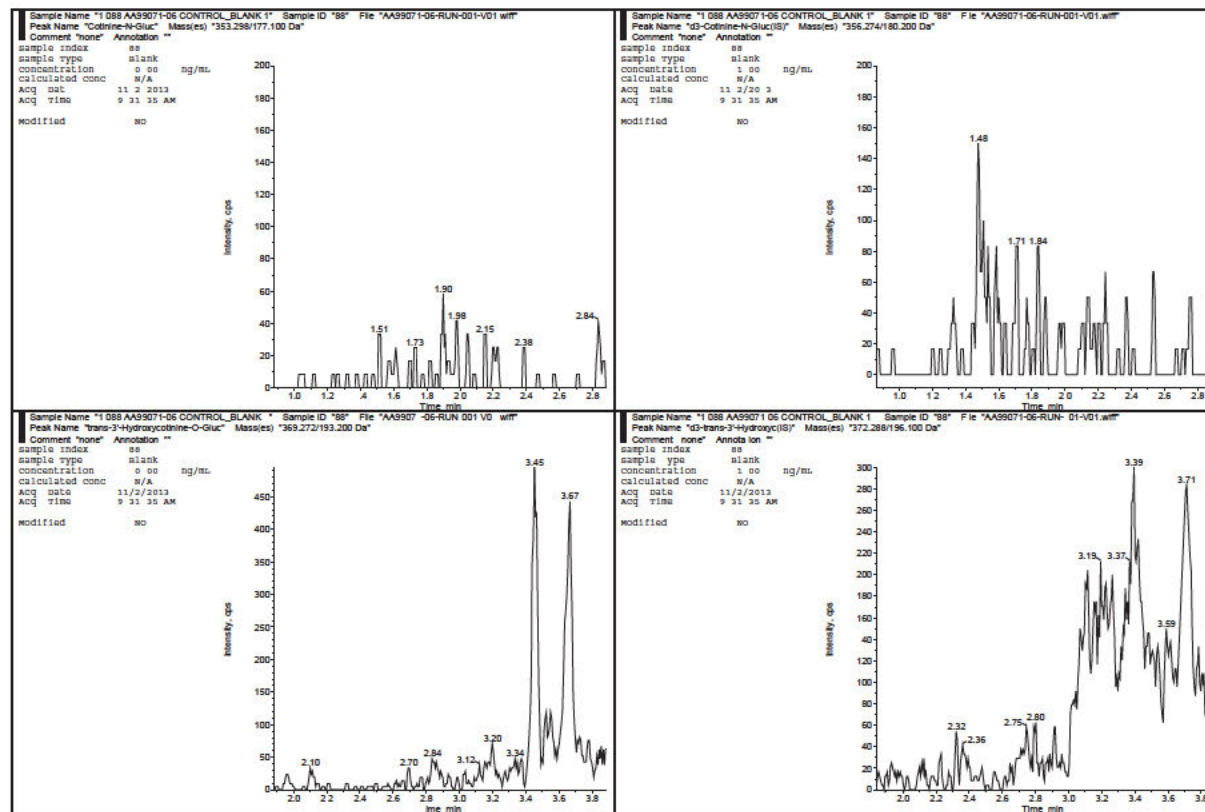


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celentron Study AA99071-06



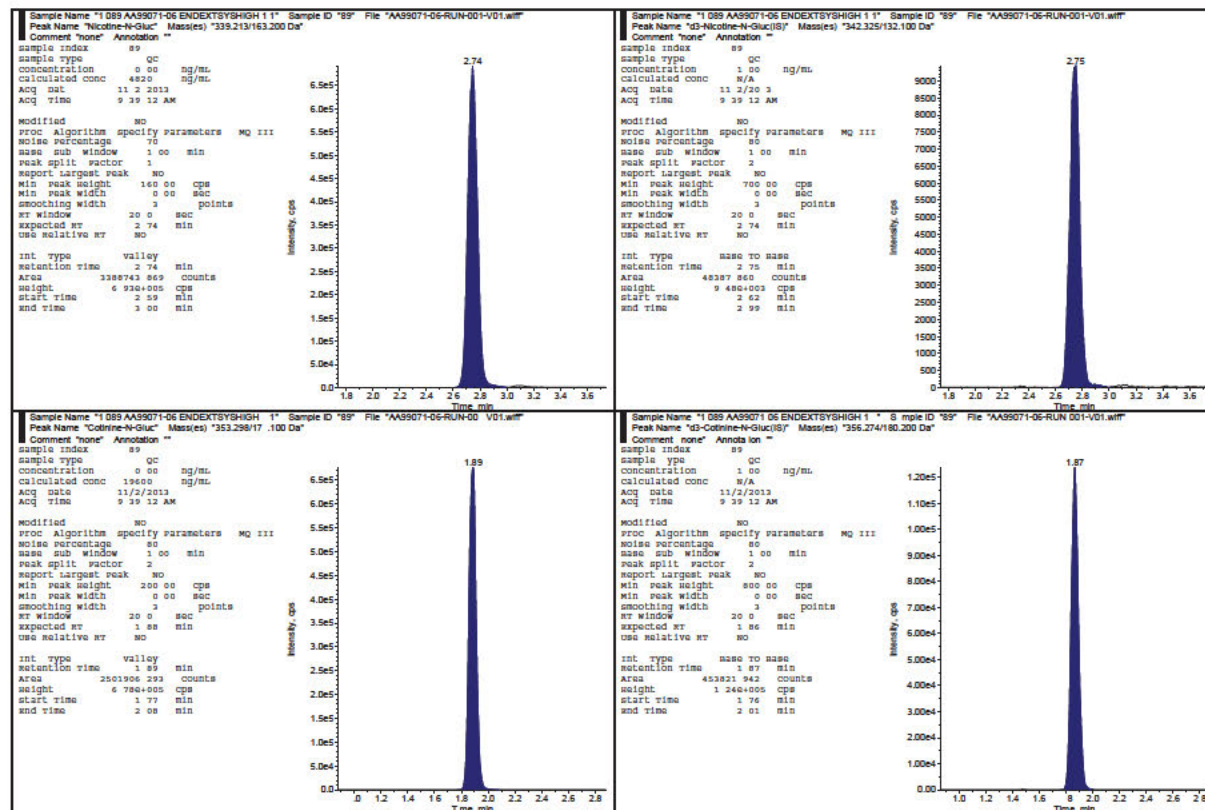


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celceron Study AA99071-06



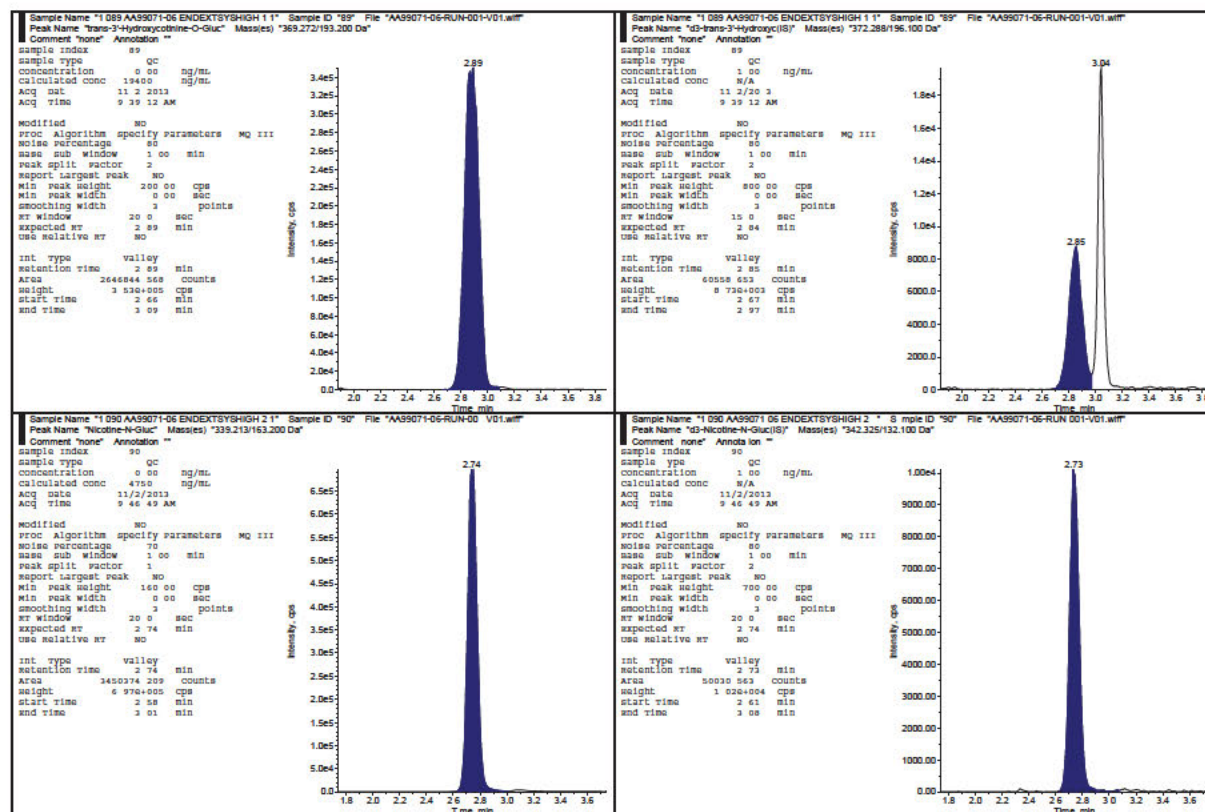


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





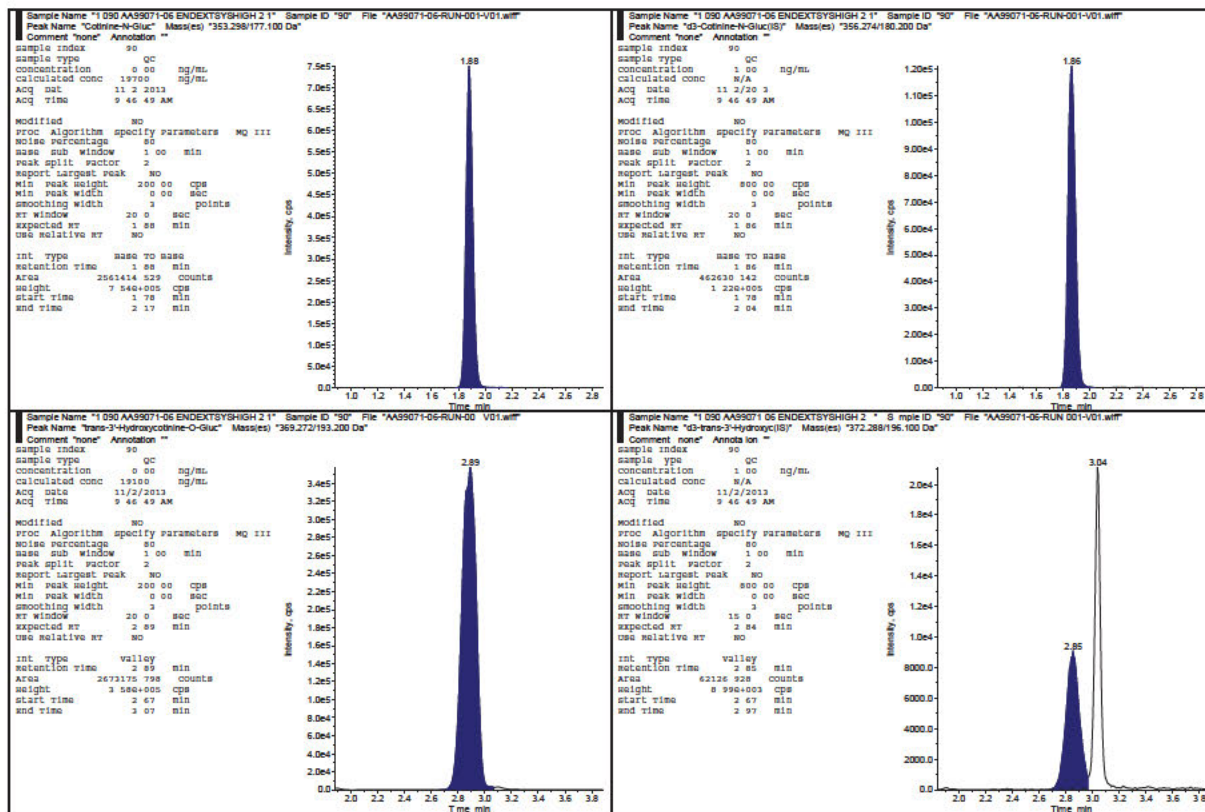
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





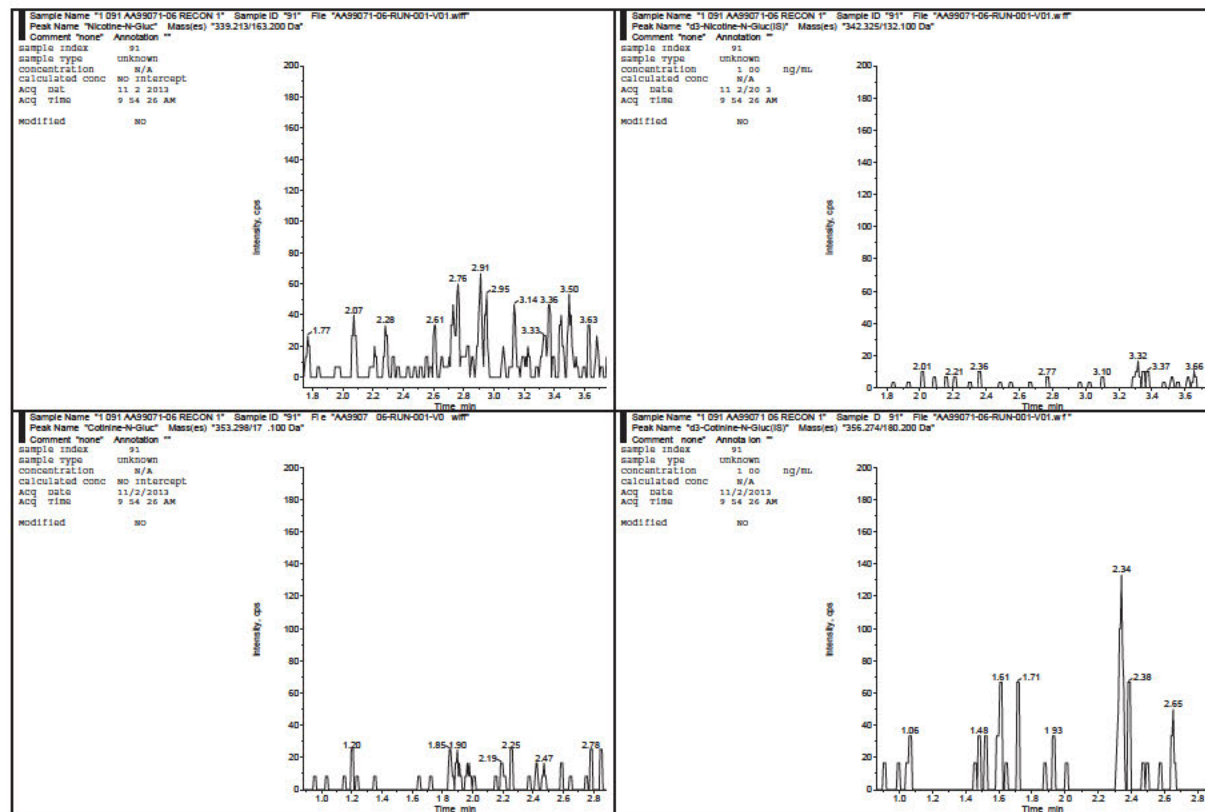


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



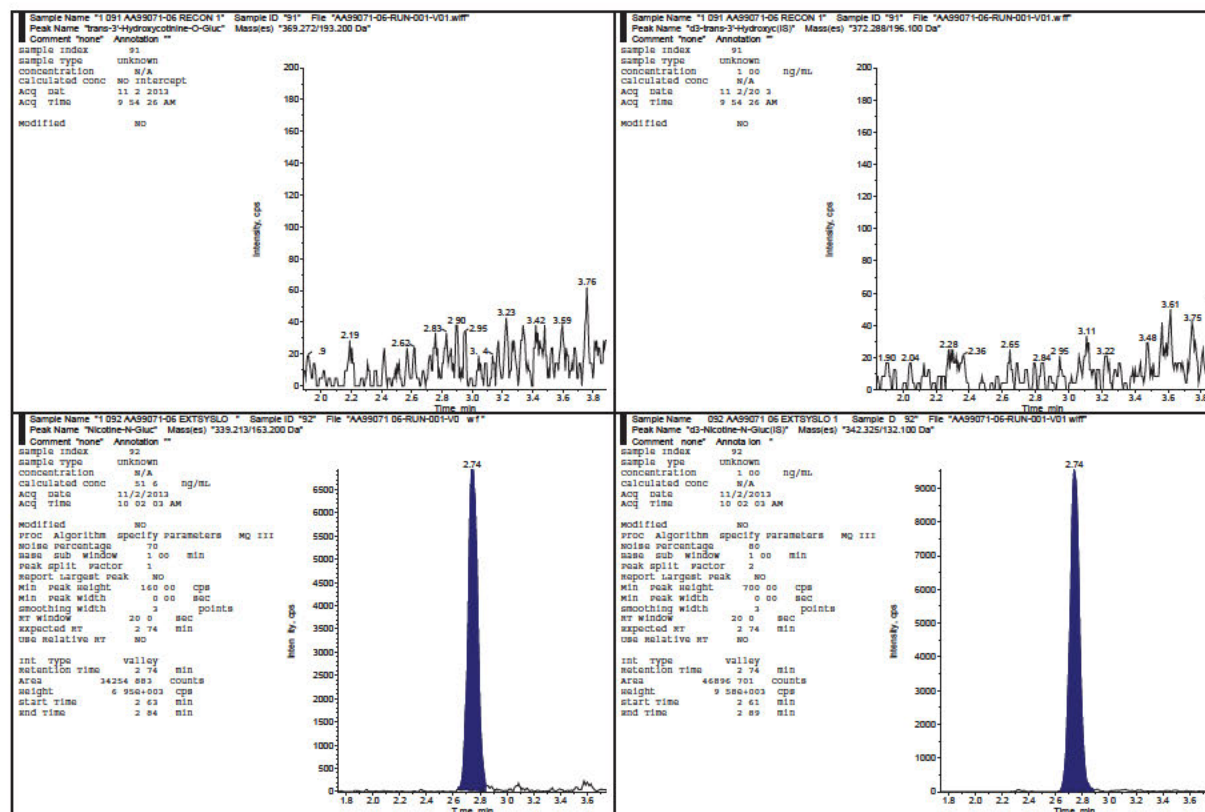


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



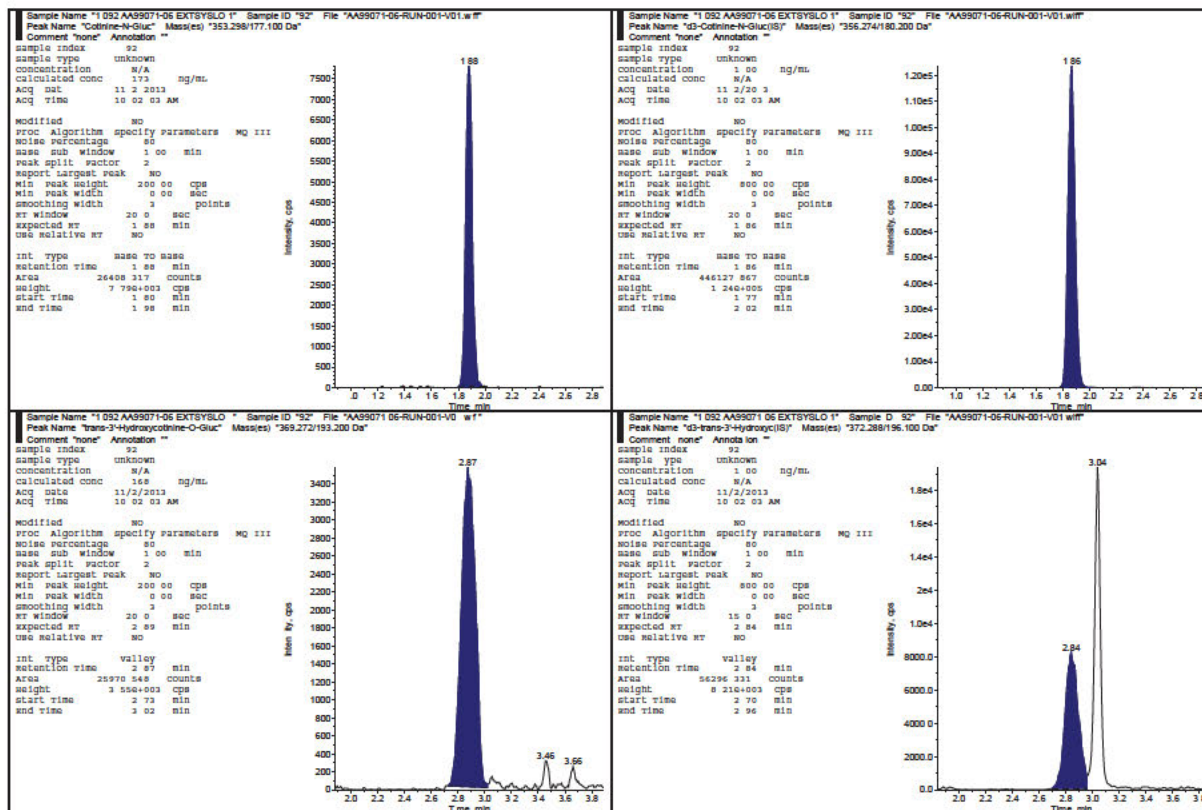


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





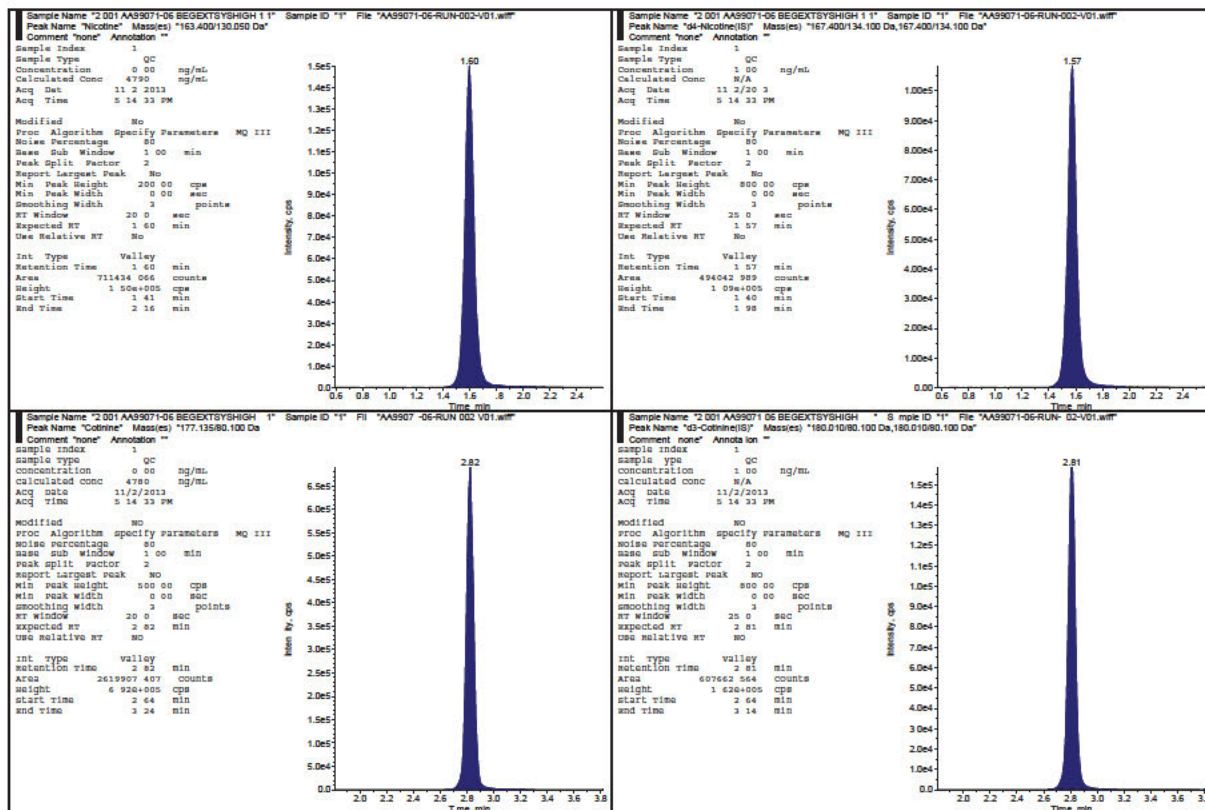
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





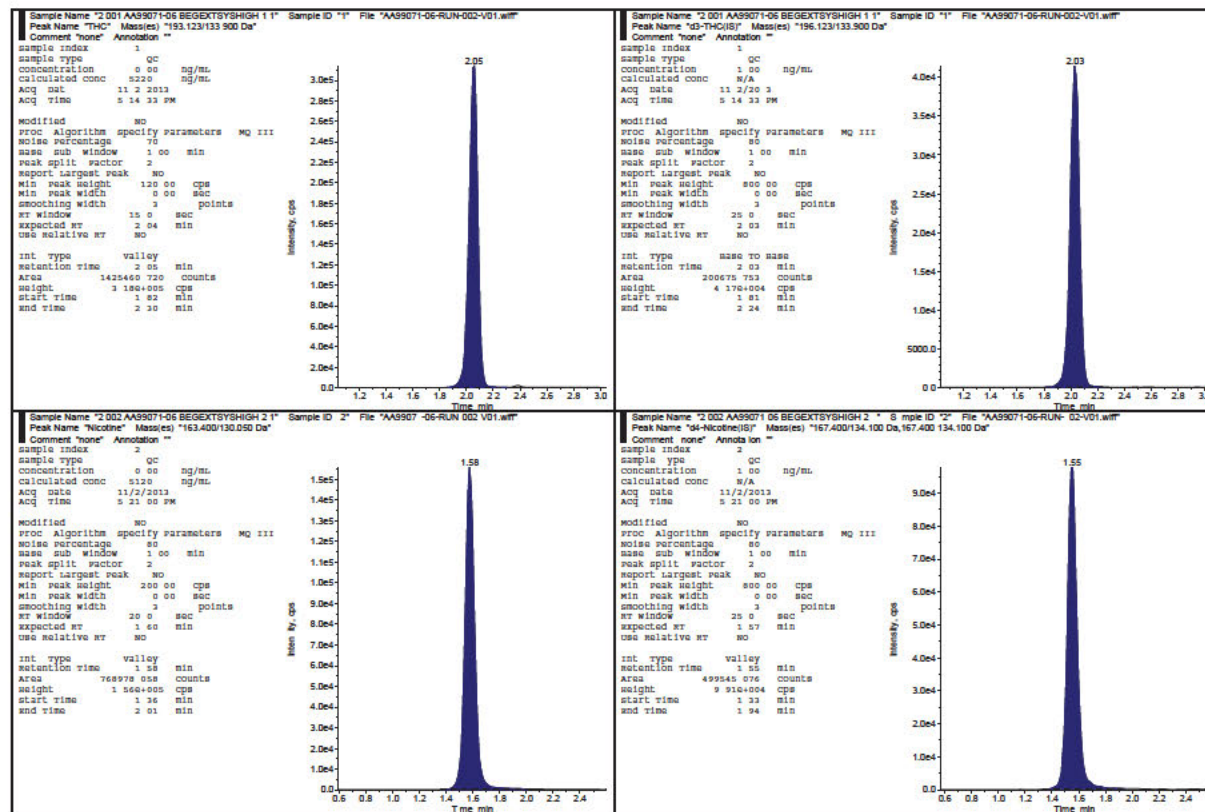


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



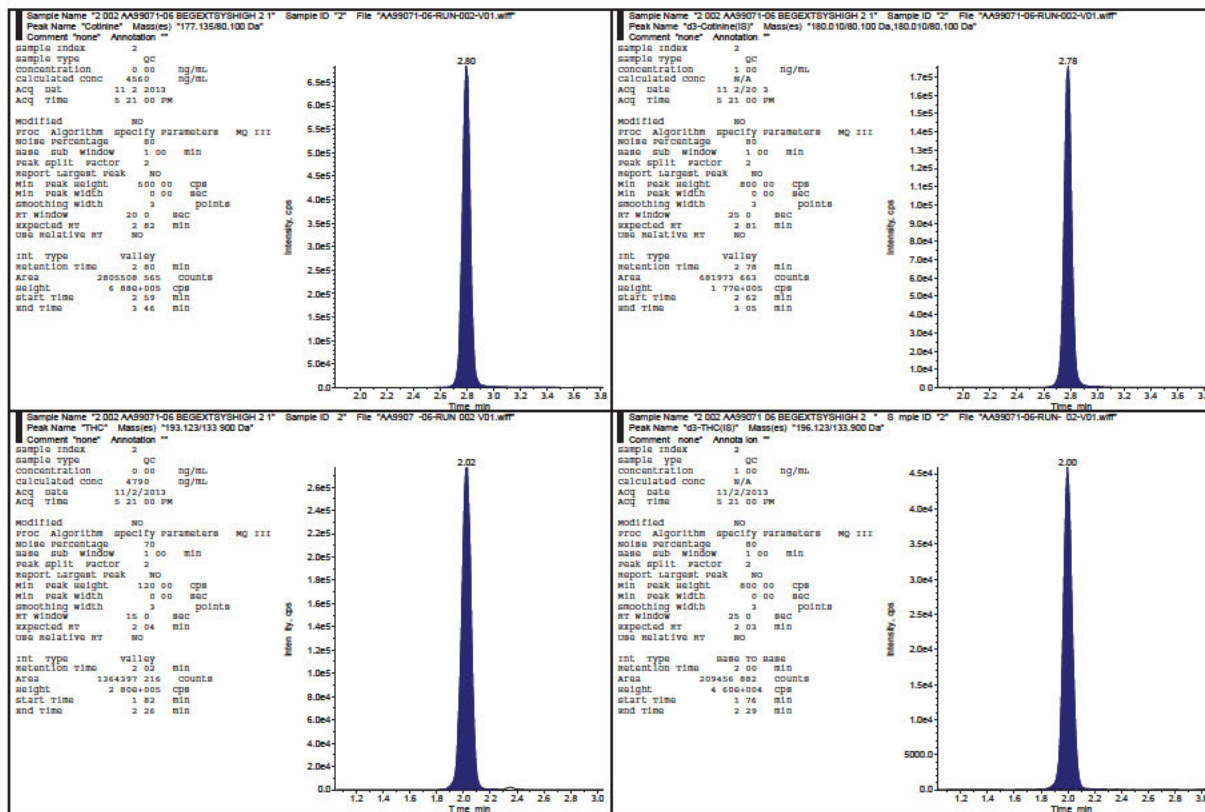


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



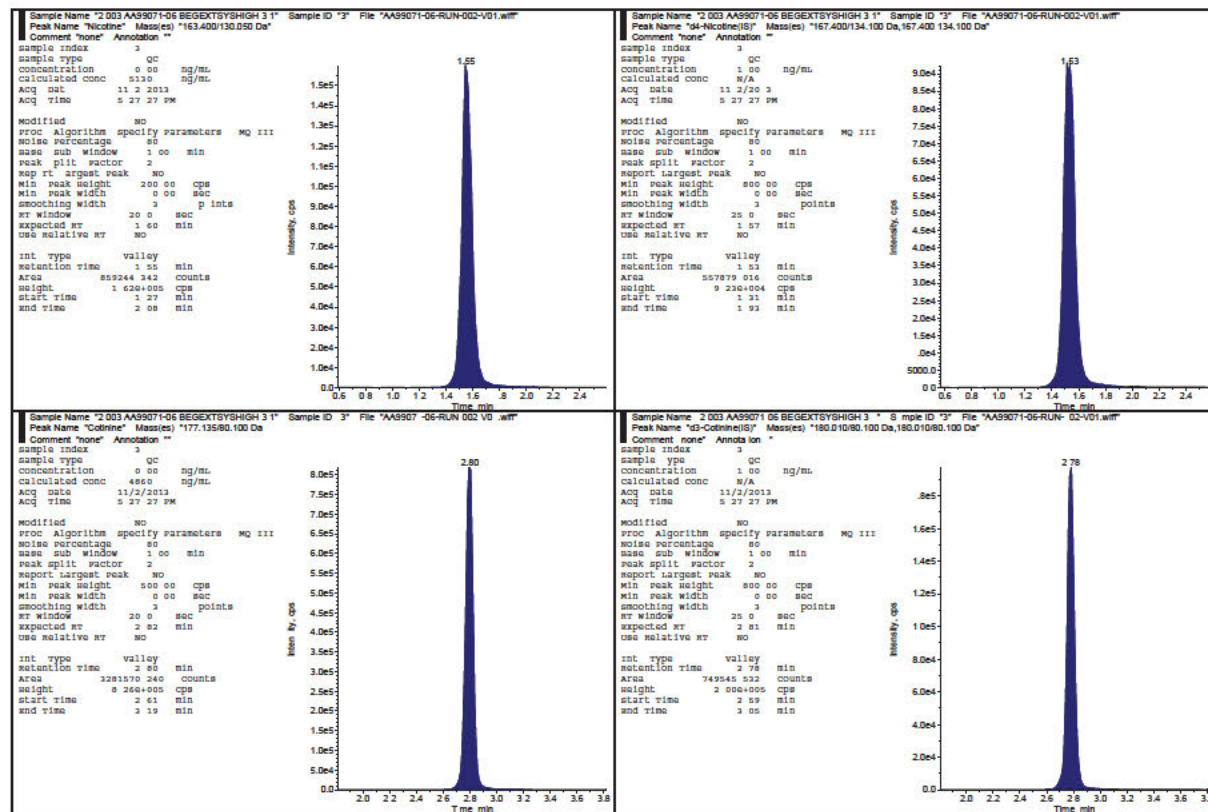


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





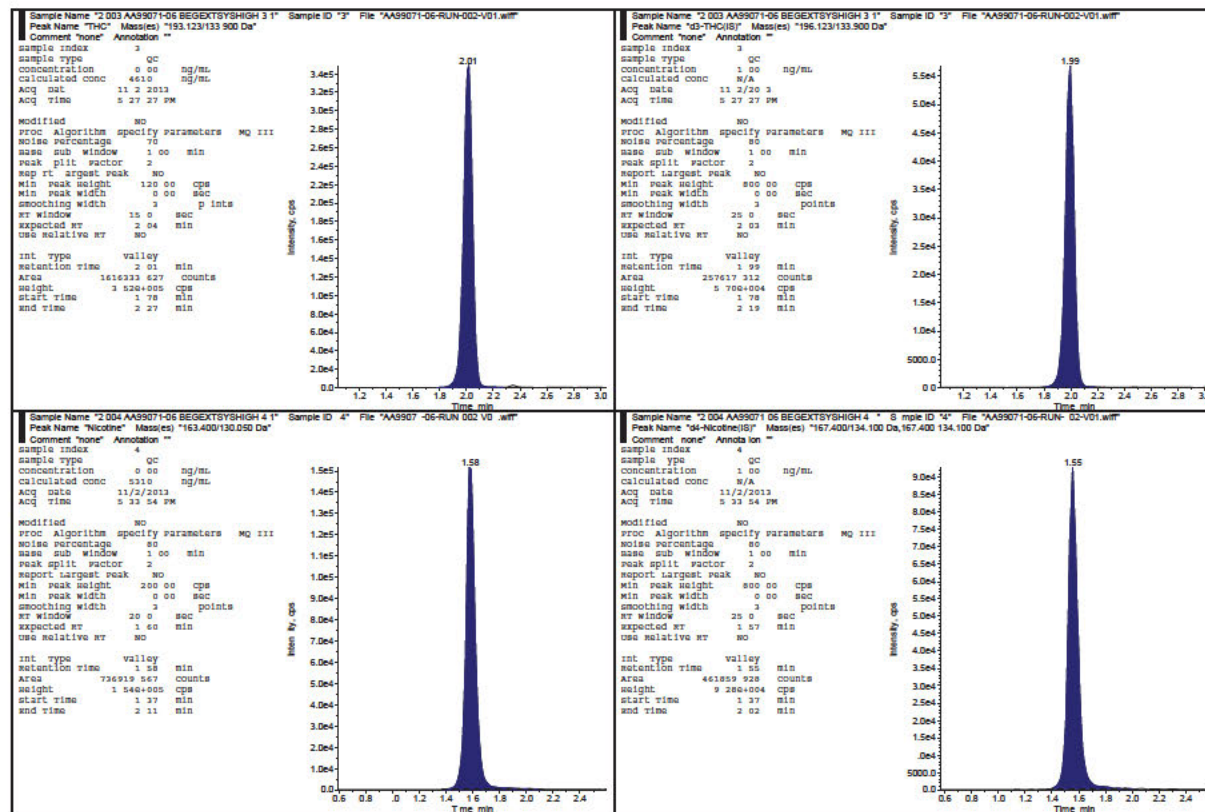
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





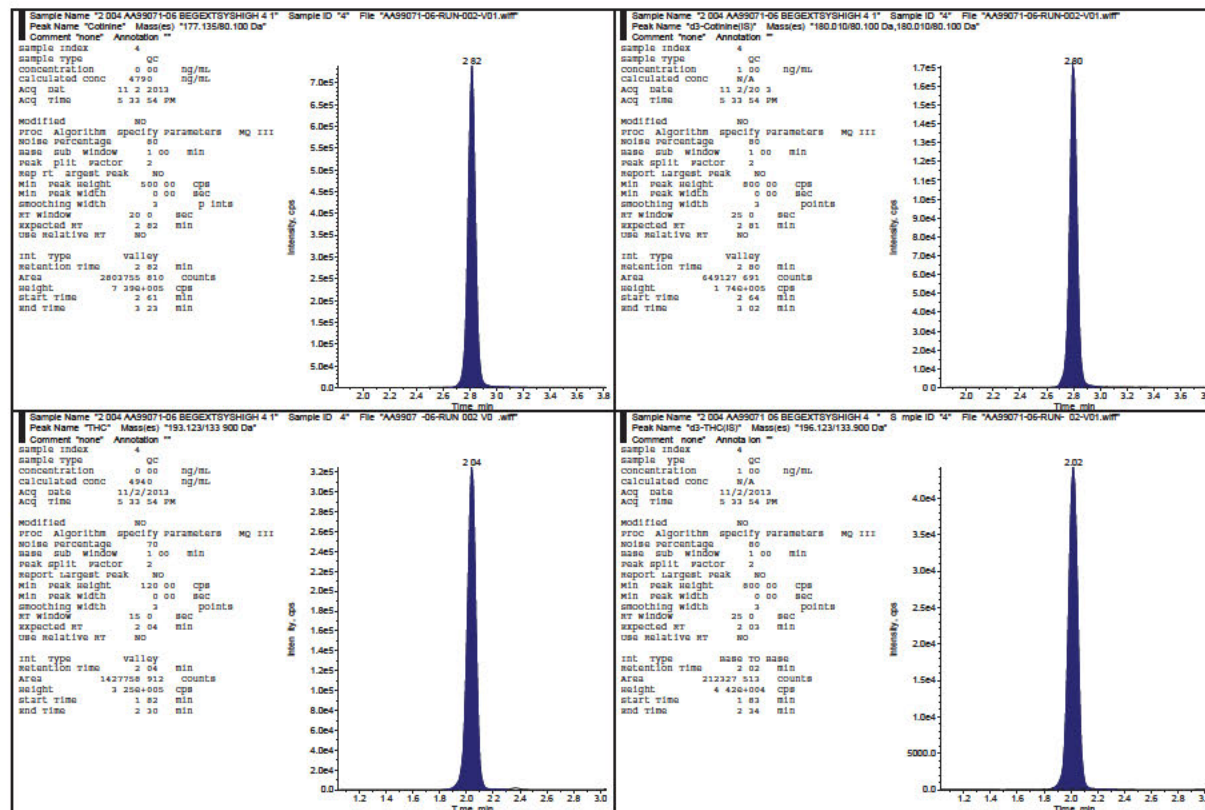


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



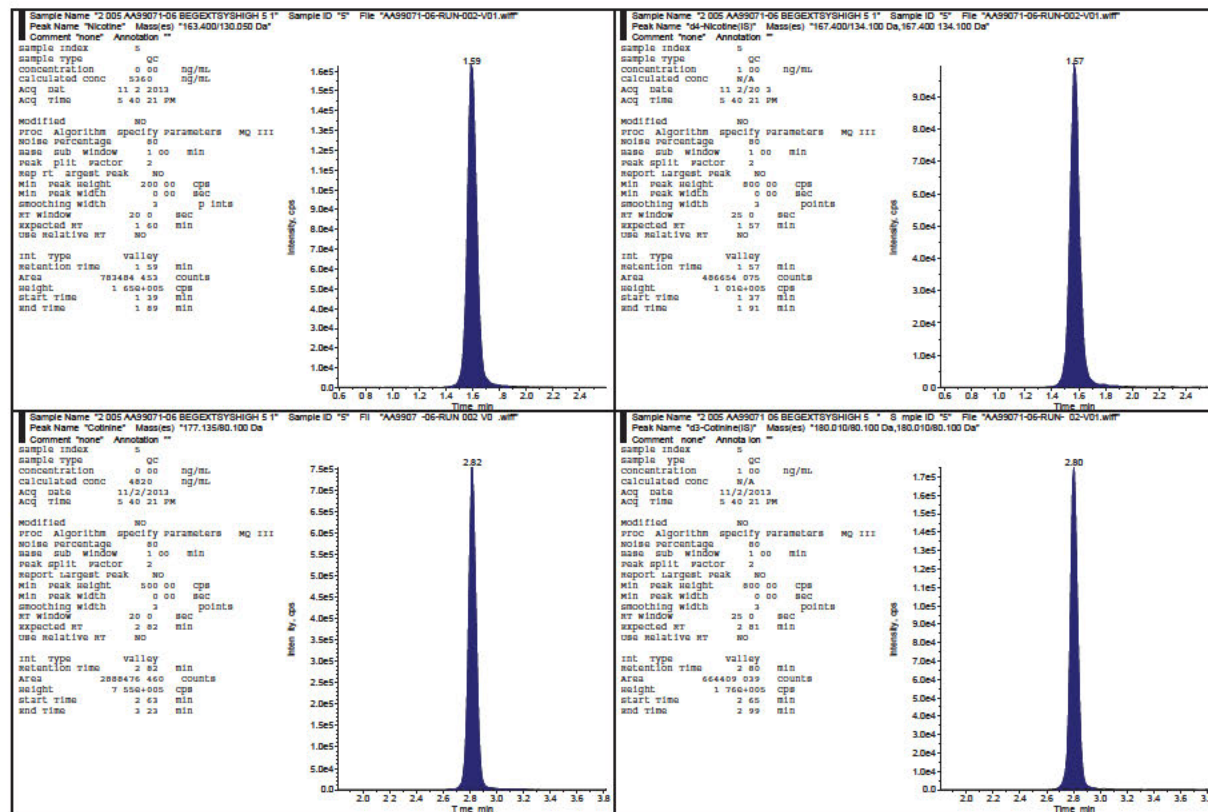


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



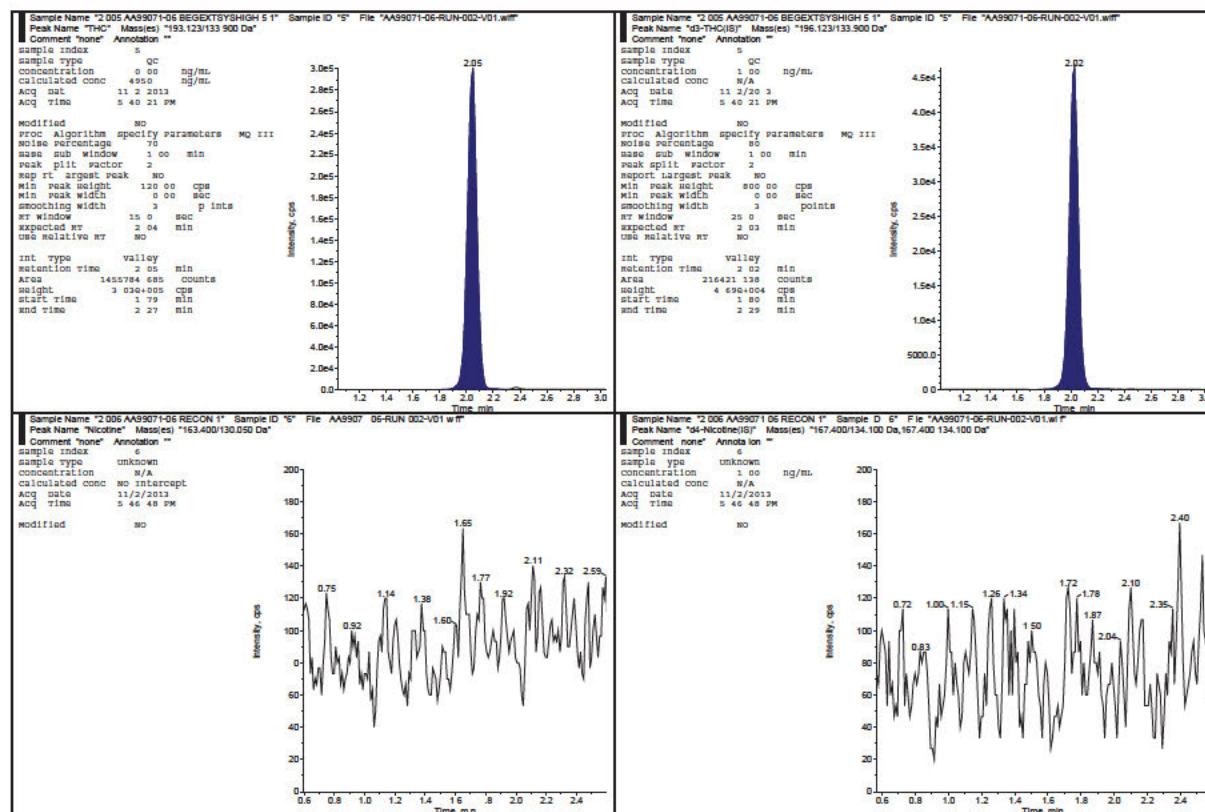


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





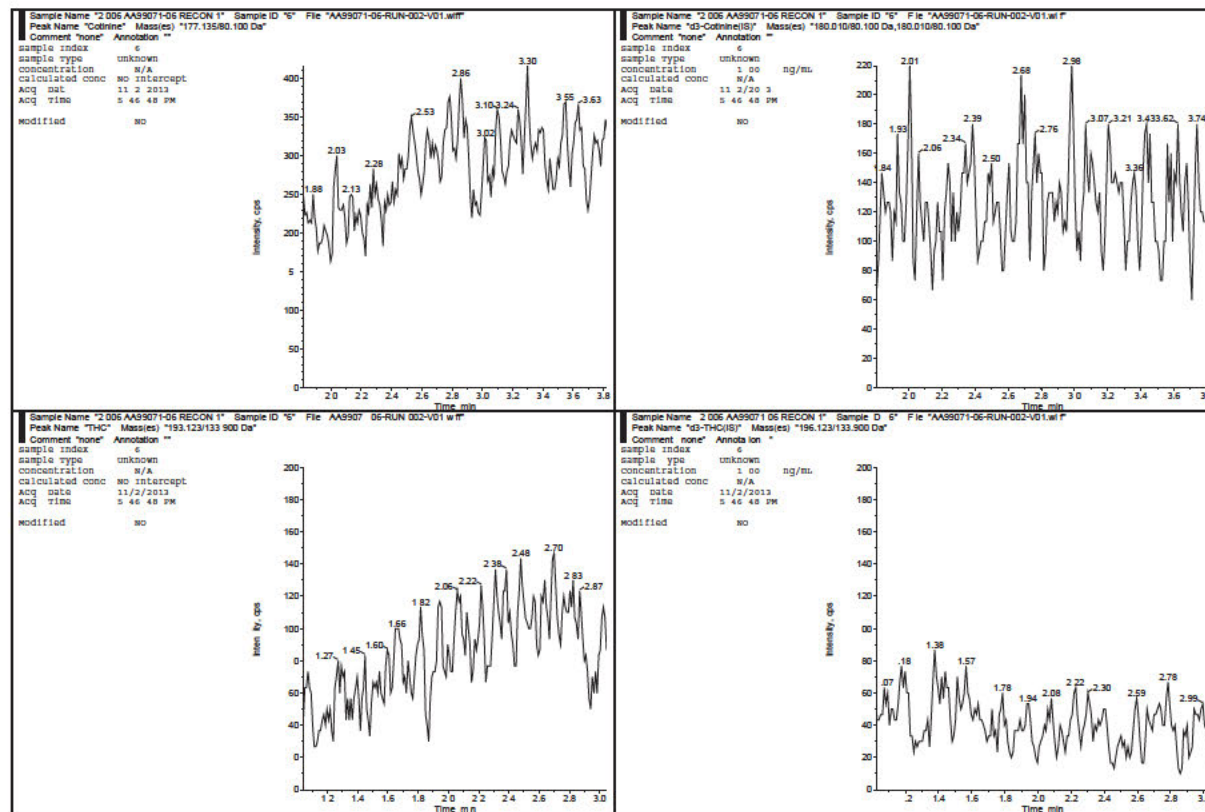
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





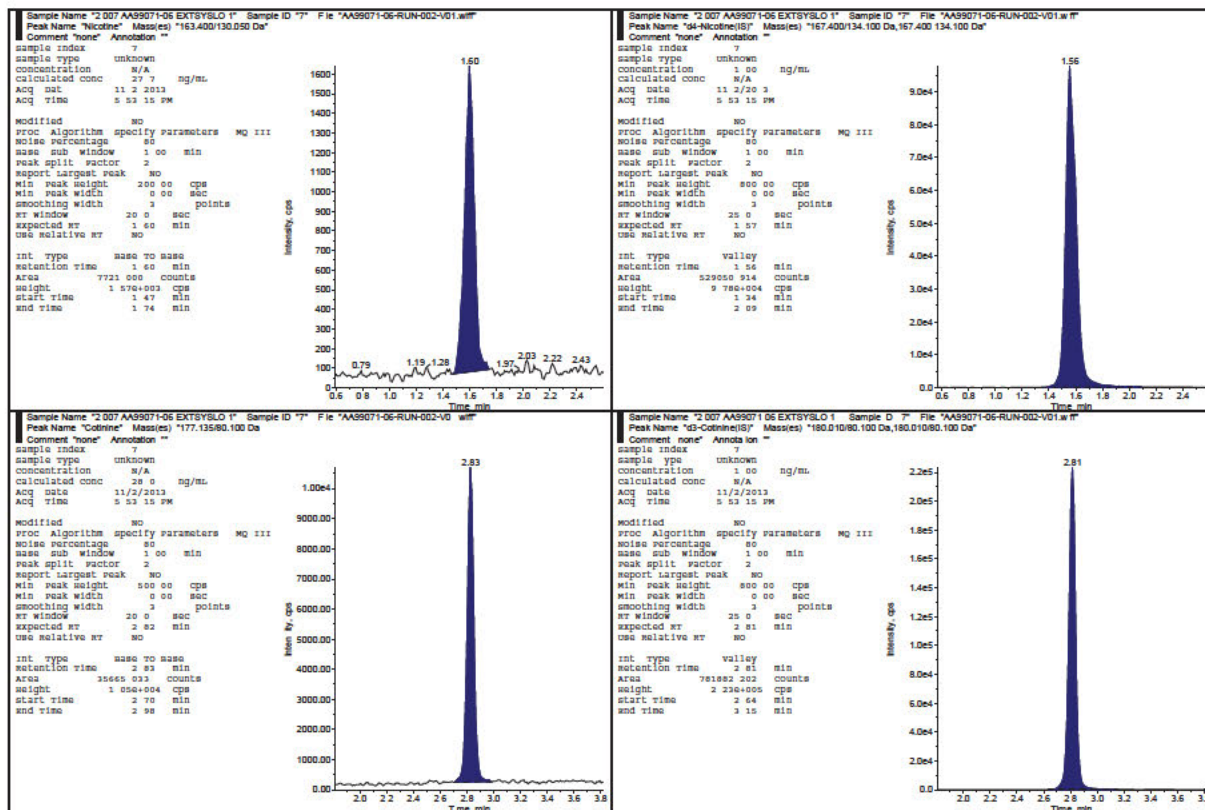


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



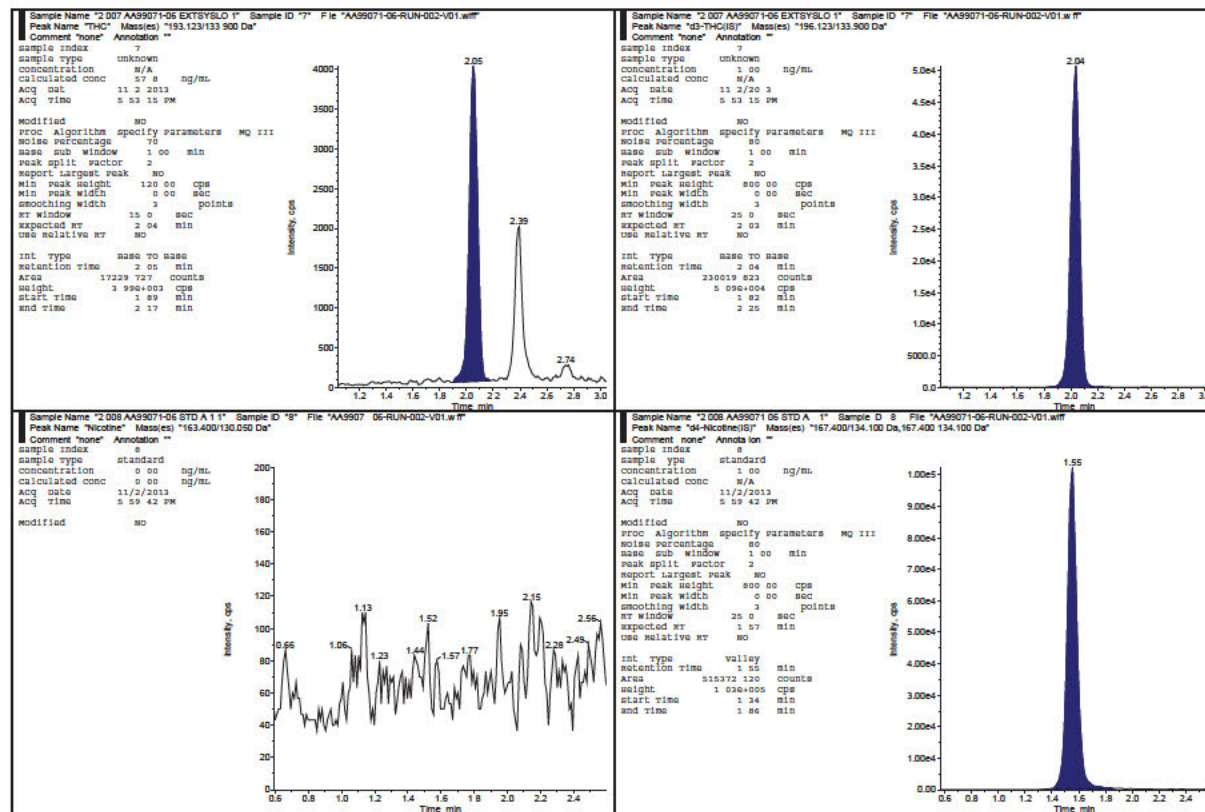


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



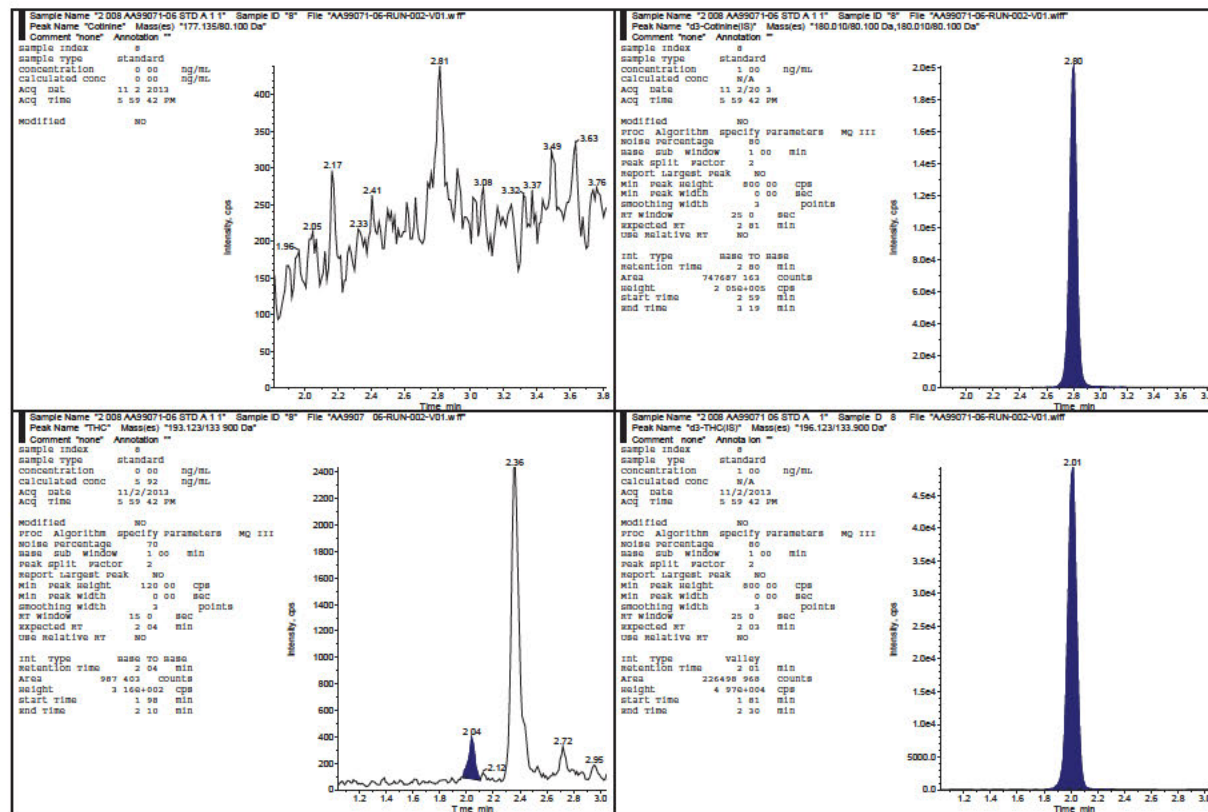


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





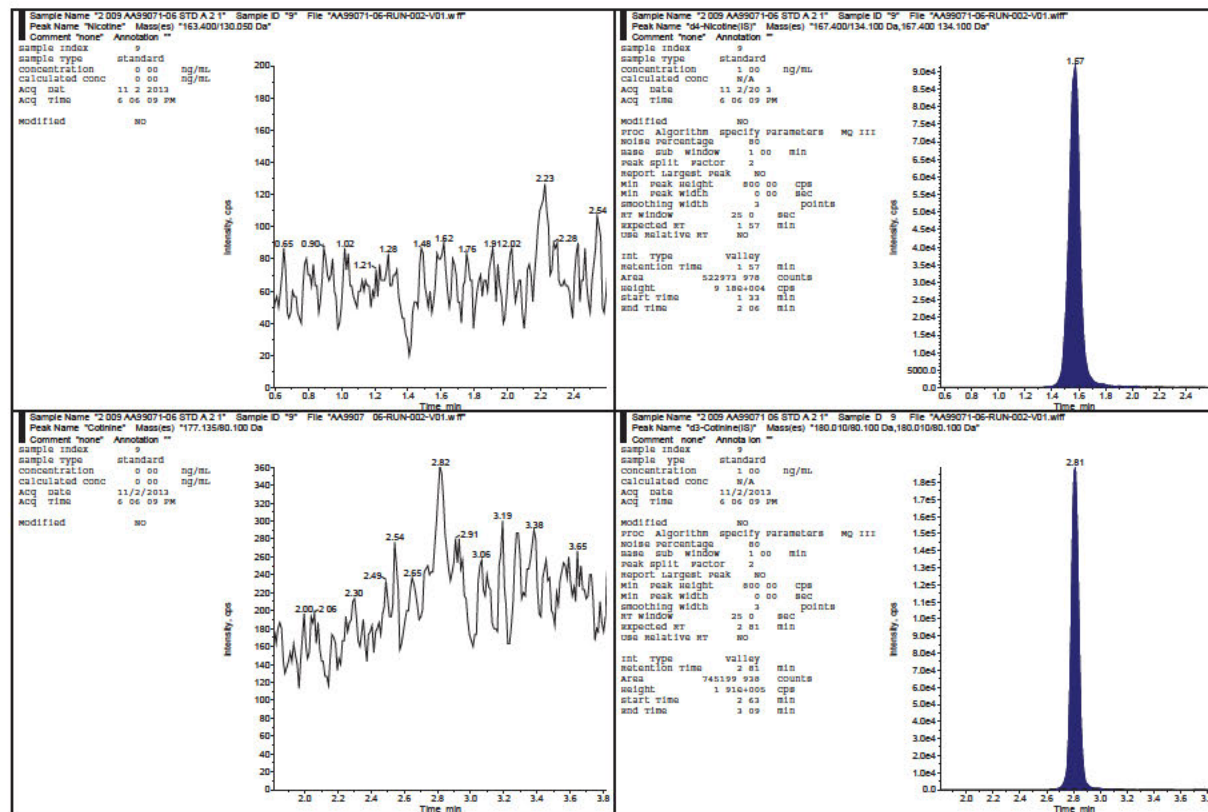
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





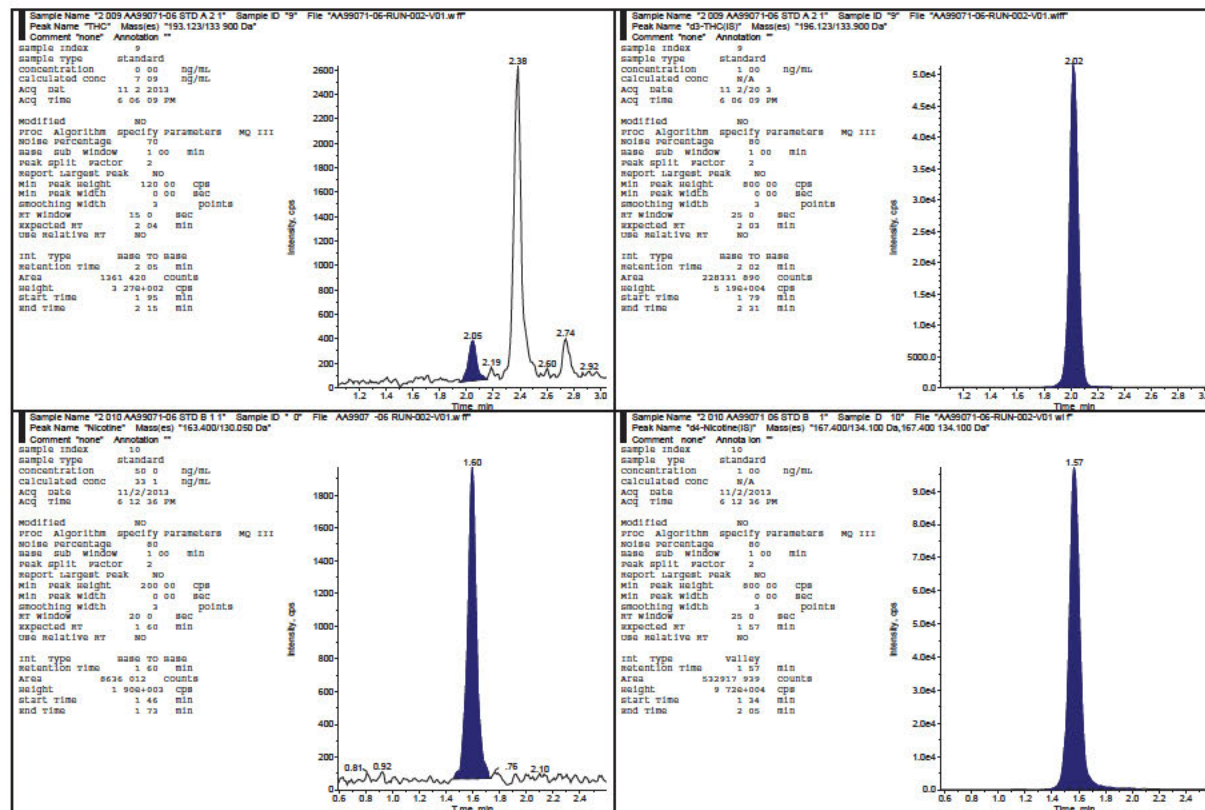


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



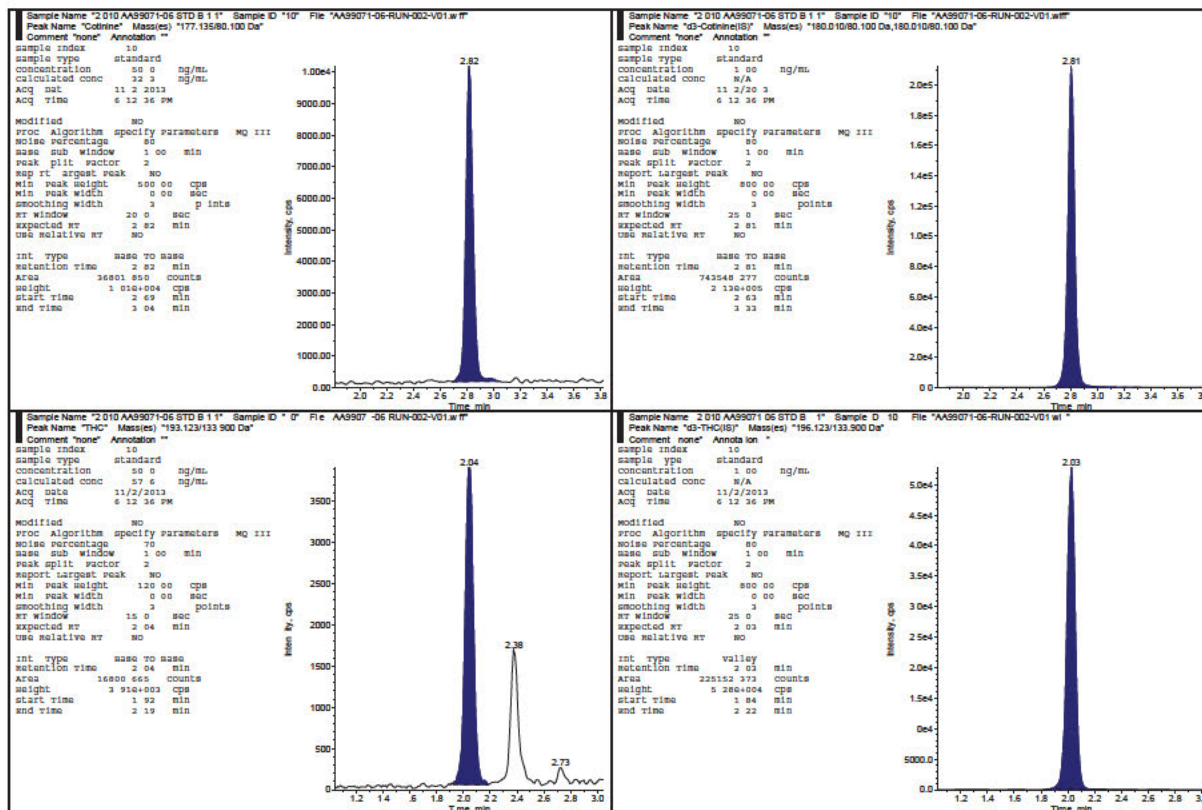


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



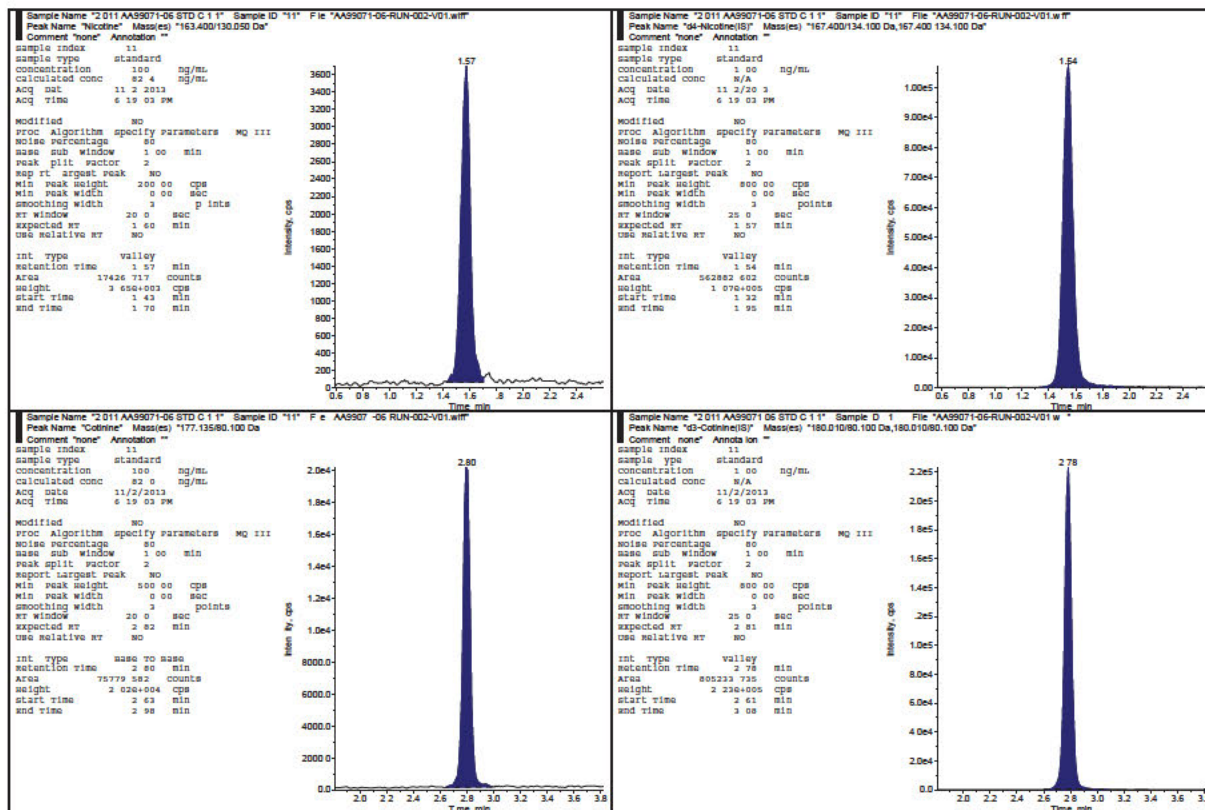


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06







Confidential

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**Sample Name "2 D11 AA99071-06 STD D 11" Sample ID "11" File "AA99071-06-RUN-002-V01.w"**  
**Peak Name "THC" Mass(es) "193.123/133.900 Da"**  
**Comment "none" Annotation ""**

sample index	11
sample type	standard
concentration	100 ng/ml
calculated conc	106 ng/ml
Acq date	11/2/2013
Acq time	6 19 03 PM

Modified NO  
 rroc Algorithm specify parameters MQ III  
 noise percentage 70  
 base sub window 1 00 min  
 peak split factor 2  
 report largest peak NO  
 min peak height 1200 cps  
 min peak width 0 00 sec  
 smoothing width 3 points  
 sr window 15 0 sec  
 expected sr 2 04 min  
 use relative sr NO

int type base to base  
 retention time 2 02 min  
 Area 32400 950 counts  
 height 7 25e+003 cps  
 start time 1 03 min  
 end time 2 21 min

**Sample Name "2 D11 AA99071-06 STD D 11" Sample ID "11" File "AA99071-06-RUN-002-V01.w"**  
**Peak Name "d3-THC(9)" Mass(es) "196.123/133.900 Da"**  
**Comment "none" Annotation ""**

sample index	11
sample type	standard
concentration	1 00 ng/ml
calculated conc	N/A
Acq date	11/2/2013
Acq time	6 19 03 PM

Modified NO  
 rroc Algorithm specify parameters MQ III  
 noise percentage 80  
 base sub window 1 00 min  
 peak split factor 2  
 report largest peak NO  
 min peak height 800 cps  
 min peak width 0 00 sec  
 smoothing width 3 points  
 sr window 25 0 sec  
 expected sr 2 03 min  
 use relative sr NO

int type base to base  
 retention time 2 00 min  
 Area 23511 963 counts  
 height 6 25e+004 cps  
 start time 1 00 min  
 end time 2 23 min

**Sample Name "2 D12 AA99071-06 STD D 11" Sample ID "12" File "AA99071-06-RUN-002-V01.w"**  
**Peak Name "Nicotine" Mass(es) "163.400/134.050 Da"**  
**Comment "none" Annotation ""**

sample index	12
sample type	standard
concentration	200 ng/ml
calculated conc	185 ng/ml
Acq date	11/2/2013
Acq time	6 25 10 PM

Modified NO  
 rroc Algorithm specify parameters MQ III  
 noise percentage 80  
 base sub window 1 00 min  
 peak split factor 2  
 report largest peak NO  
 min peak height 200 cps  
 min peak width 0 00 sec  
 smoothing width 3 points  
 sr window 20 0 sec  
 expected sr 1 60 min  
 use relative sr NO

int type base to base  
 retention time 1 58 min  
 Area 32632 663 counts  
 height 6 53e+003 cps  
 start time 1 42 min  
 end time 1 56 min

**Sample Name "2 D12 AA99071-06 STD D 11" Sample ID "12" File "AA99071-06-RUN-002-V01.w"**  
**Peak Name "d4-Nicotine(9)" Mass(es) "167.400/134.100 Da, 167.400 134.100 Da"**  
**Comment "none" Annotation ""**

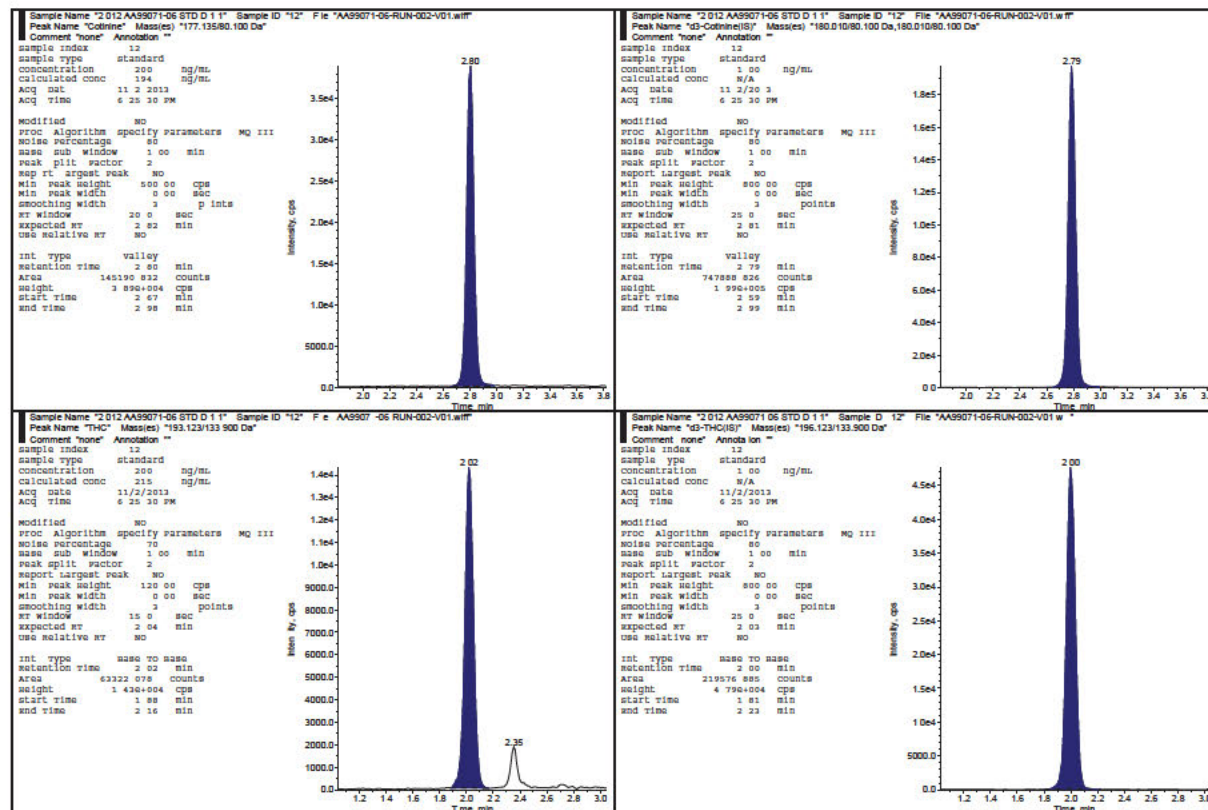
sample index	12
sample type	standard
concentration	1 00 ng/ml
calculated conc	N/A
Acq date	11/2/2013
Acq time	6 25 10 PM

Modified NO  
 rroc Algorithm specify parameters MQ III  
 noise percentage 80  
 base sub window 1 00 min  
 peak split factor 2  
 report largest peak NO  
 min peak height 80 cps  
 min peak width 0 00 sec  
 smoothing width 3 points  
 sr window 25 0 sec  
 expected sr 1 57 min  
 use relative sr NO

int type valley  
 retention time 1 54 min  
 Area 32658 304 counts  
 height 1 52e+003 cps  
 start time 1 32 min  
 end time 1 56 min

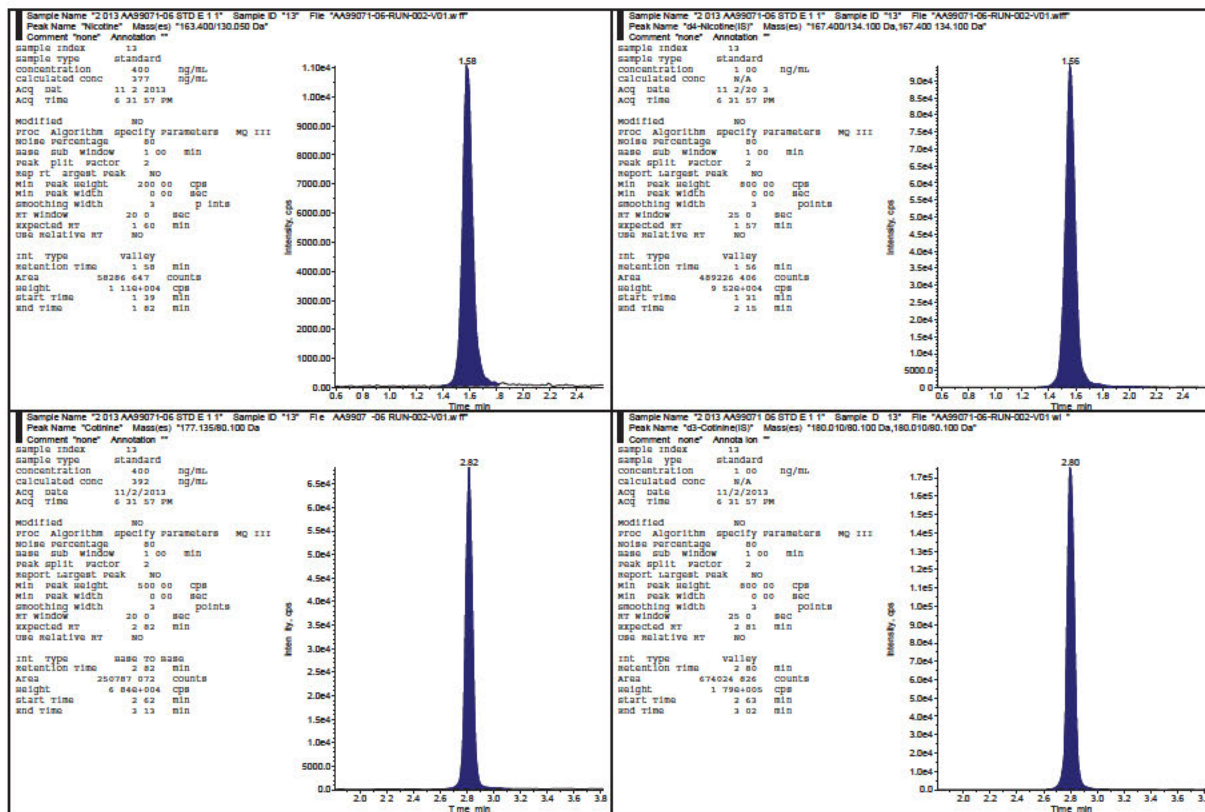


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



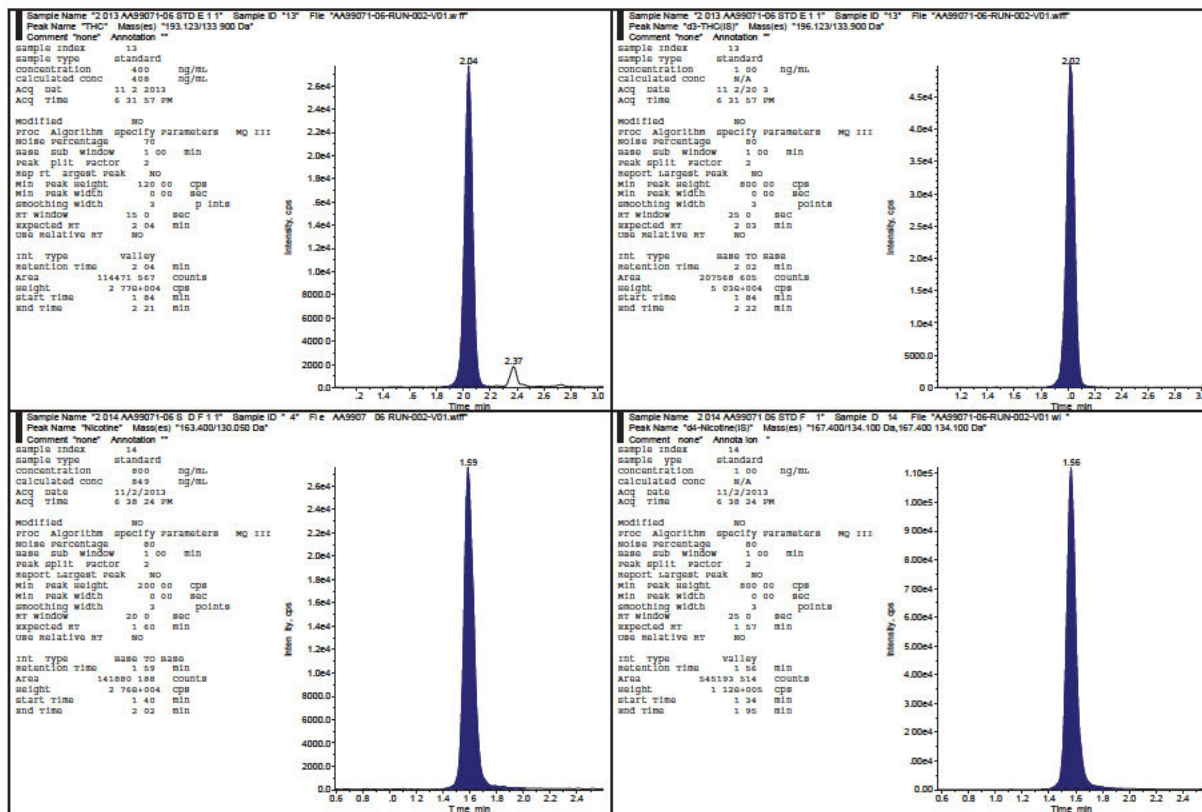


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-N-Glucuronide, Cotinine-N-Glucuronide, and *trans*-3'-Hydroxycotinine-O-Glucuronide in Human Urine  
Celerion Study AA99071-06





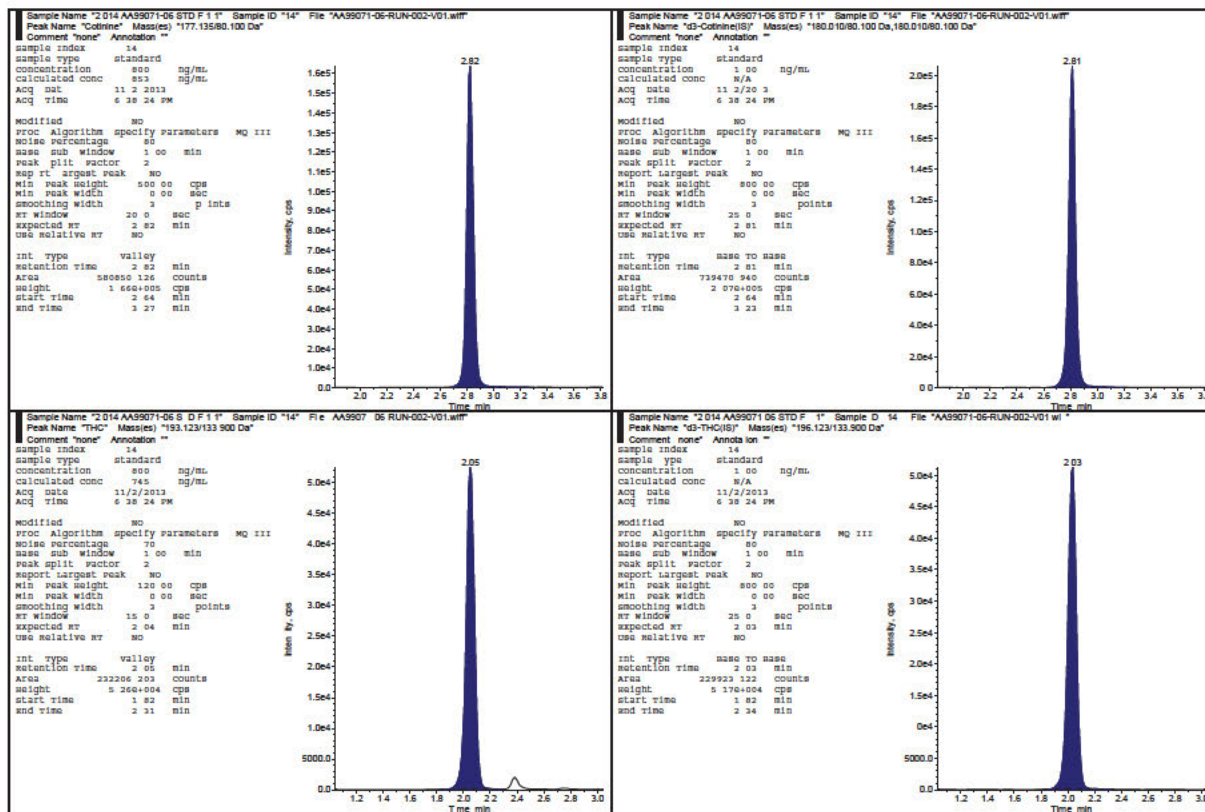
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





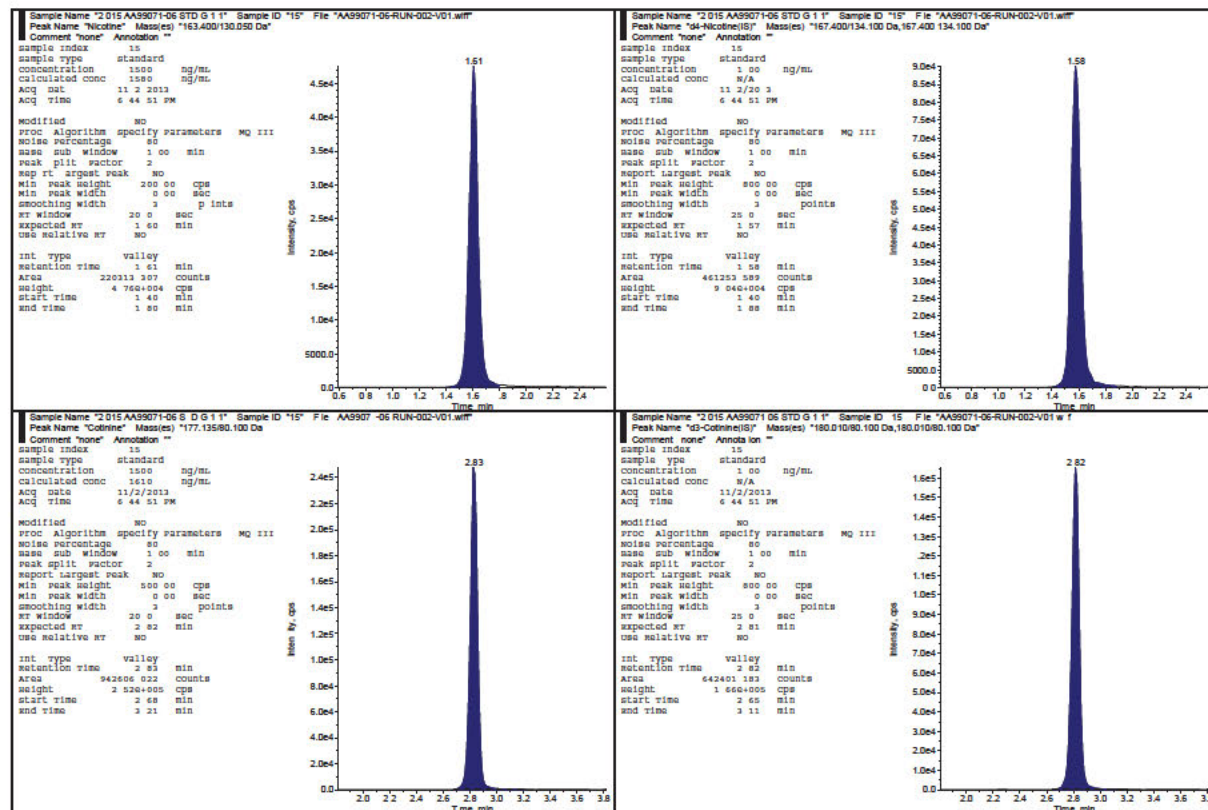


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



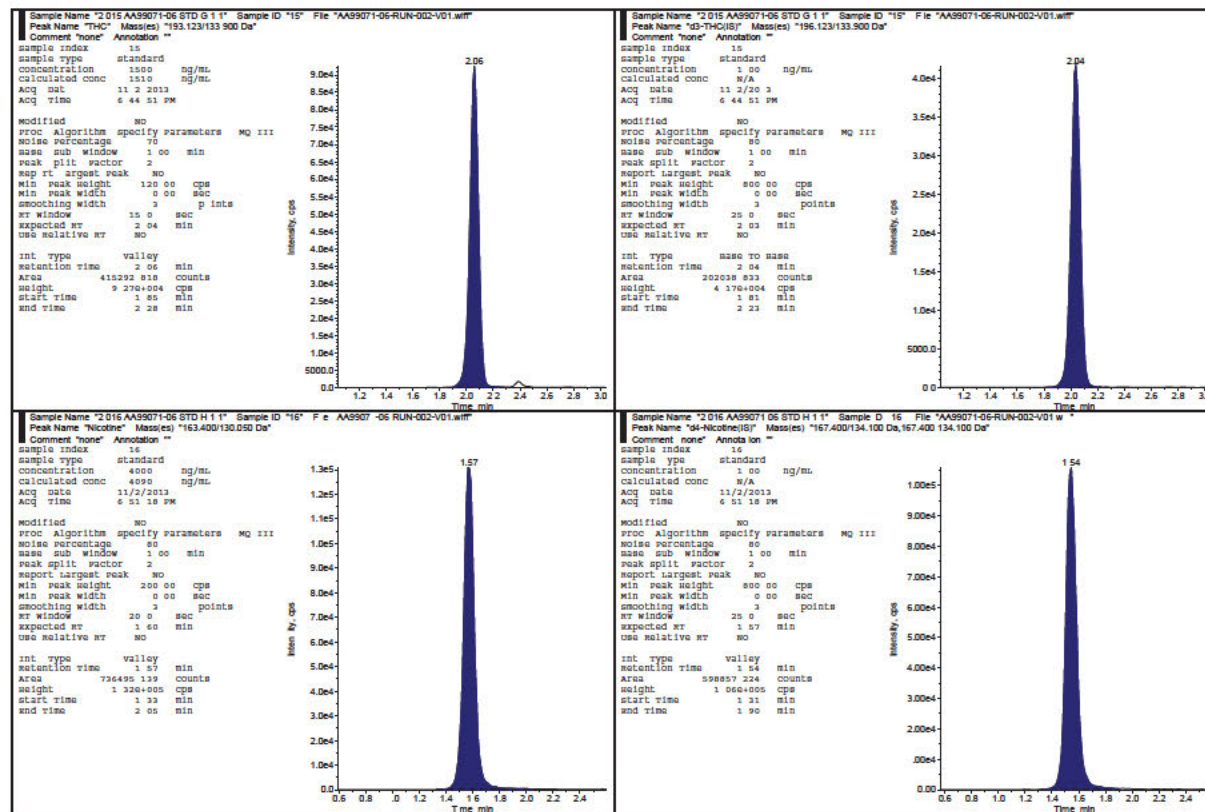


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



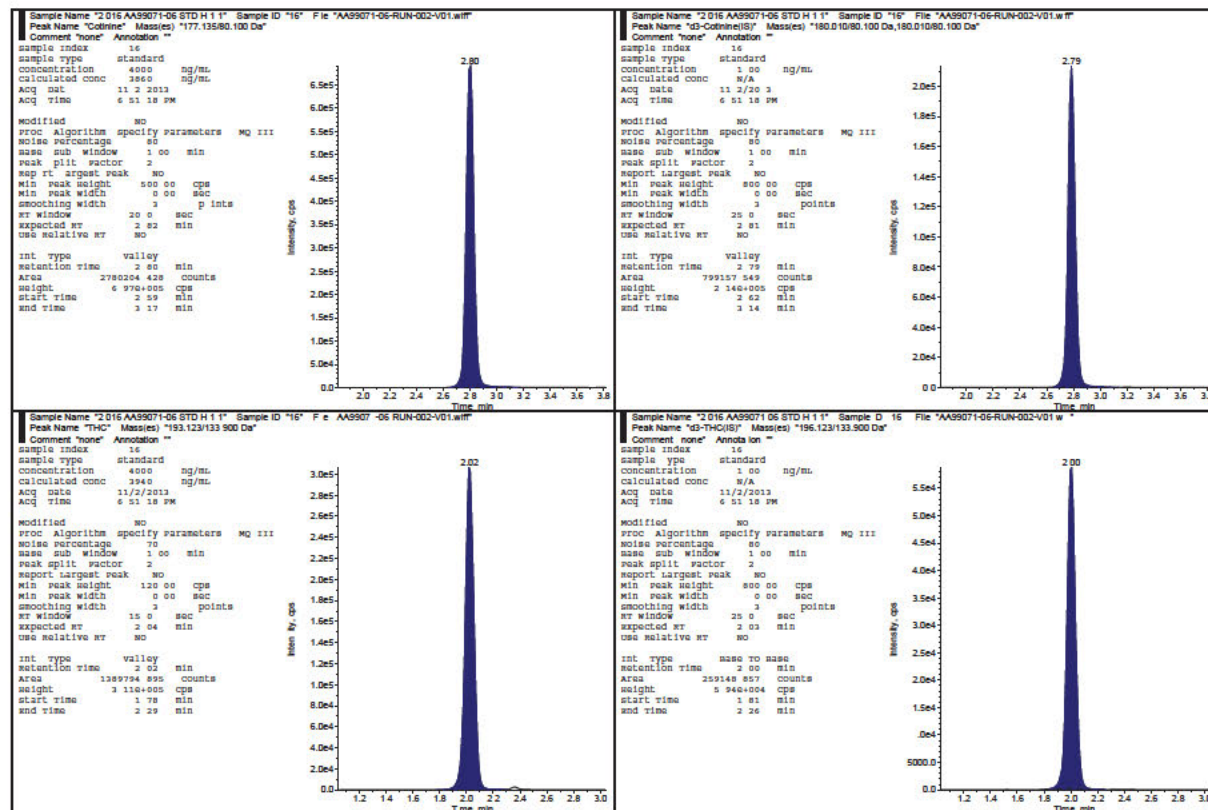


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





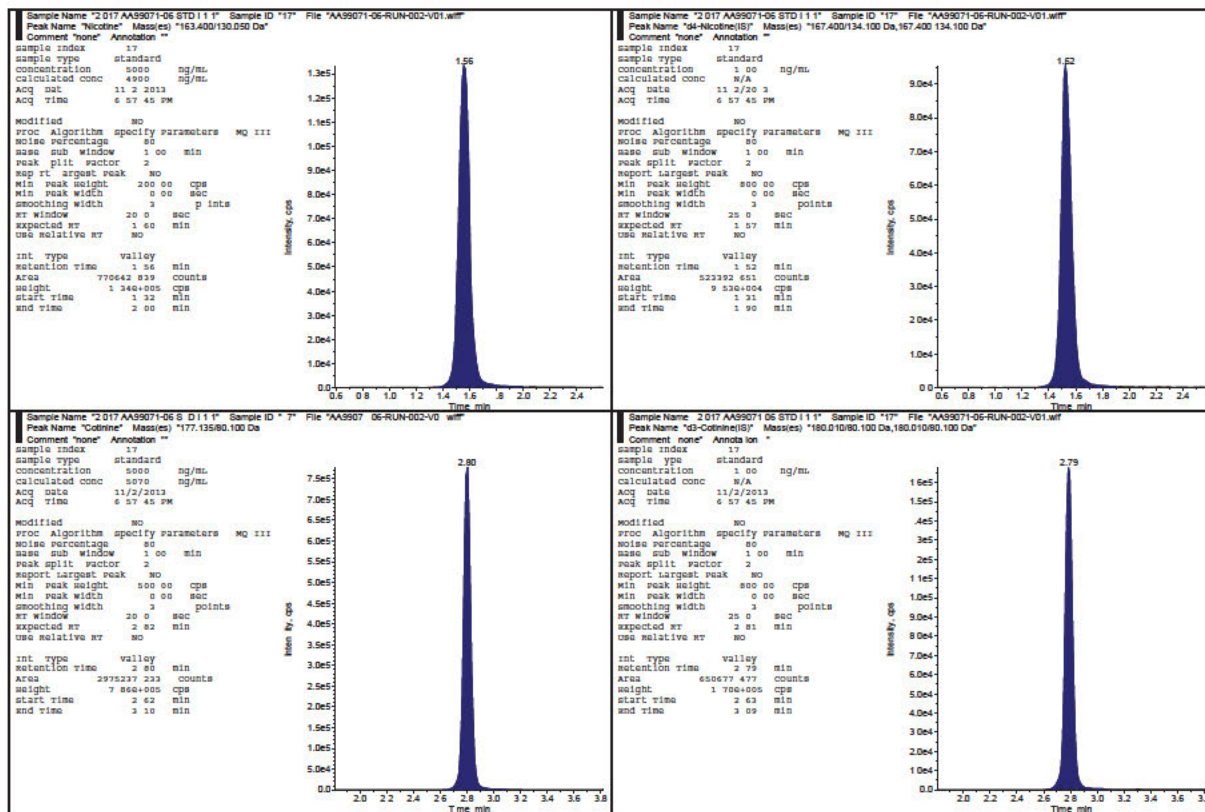
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





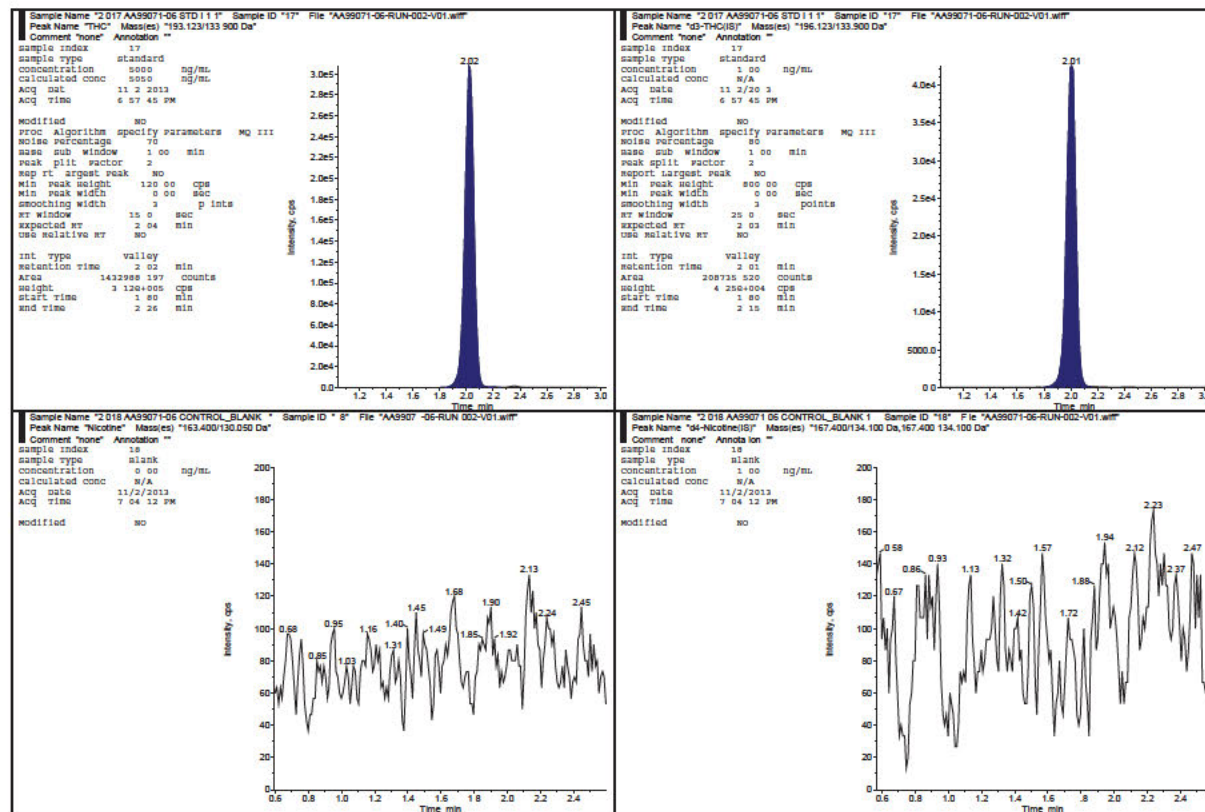


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



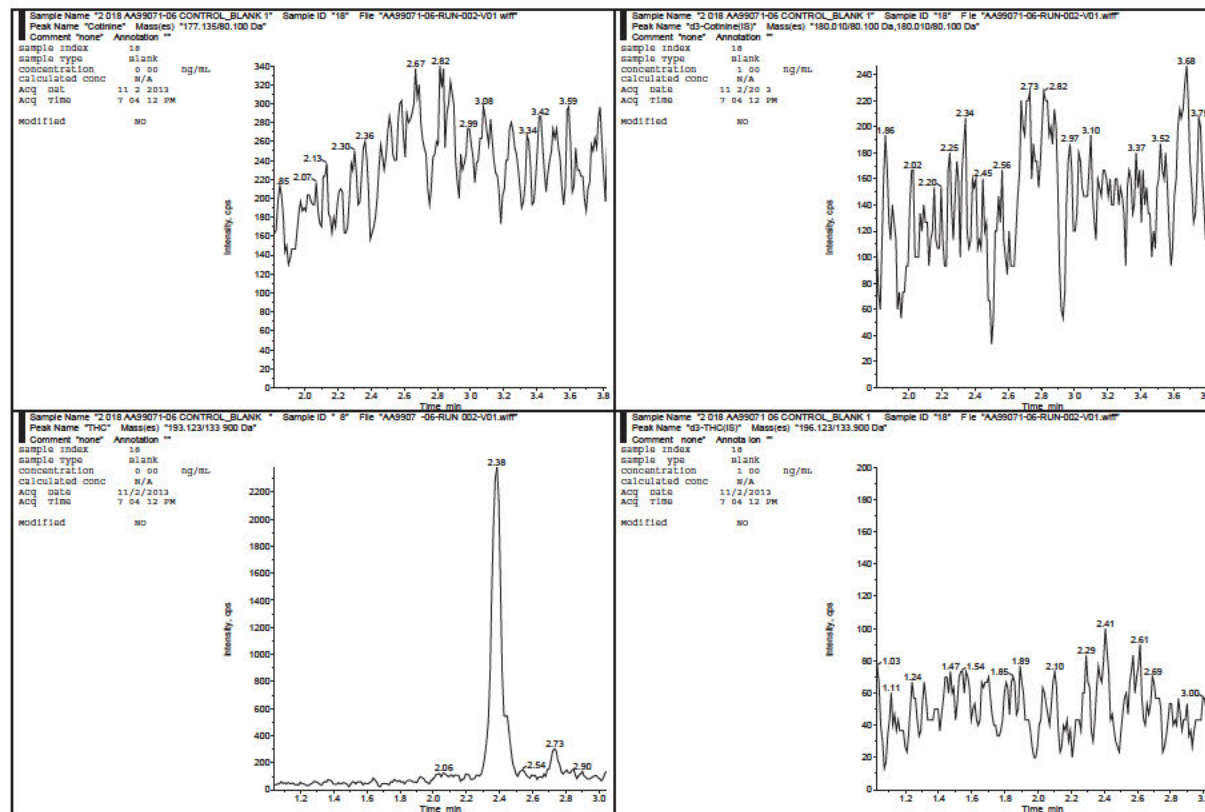


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06



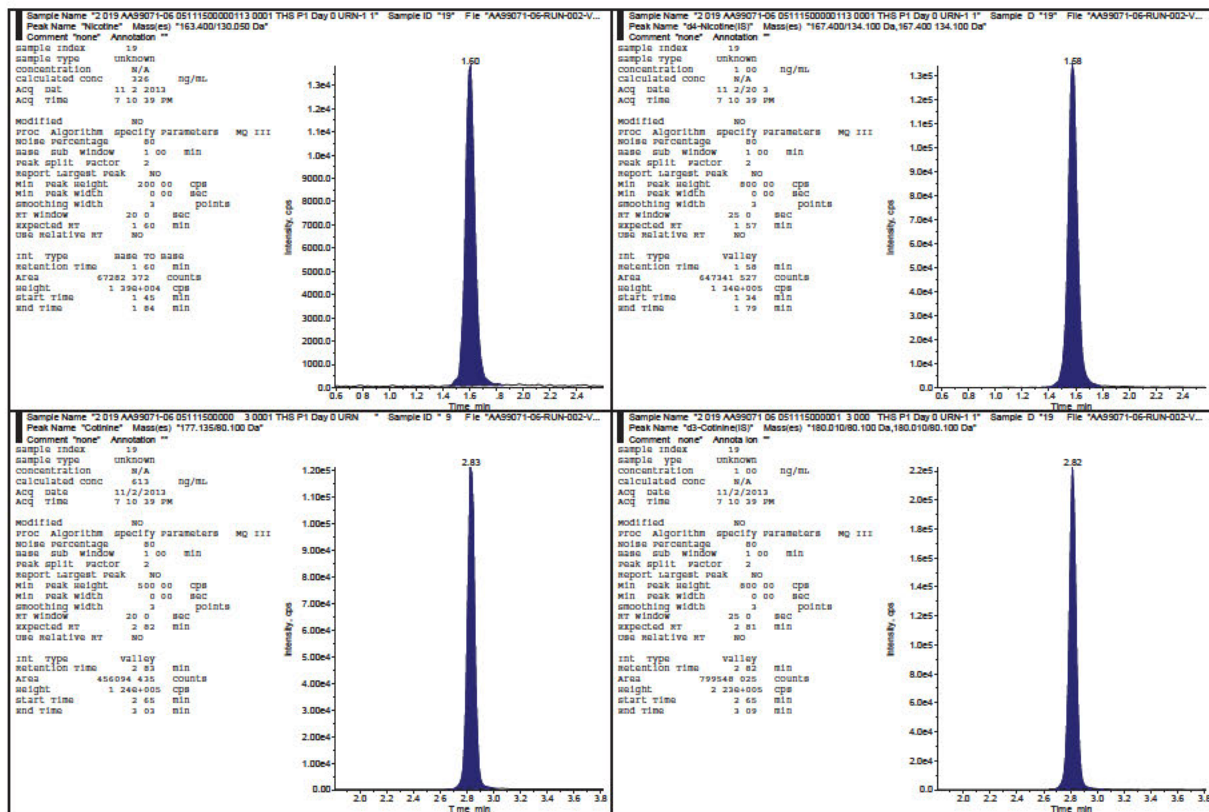


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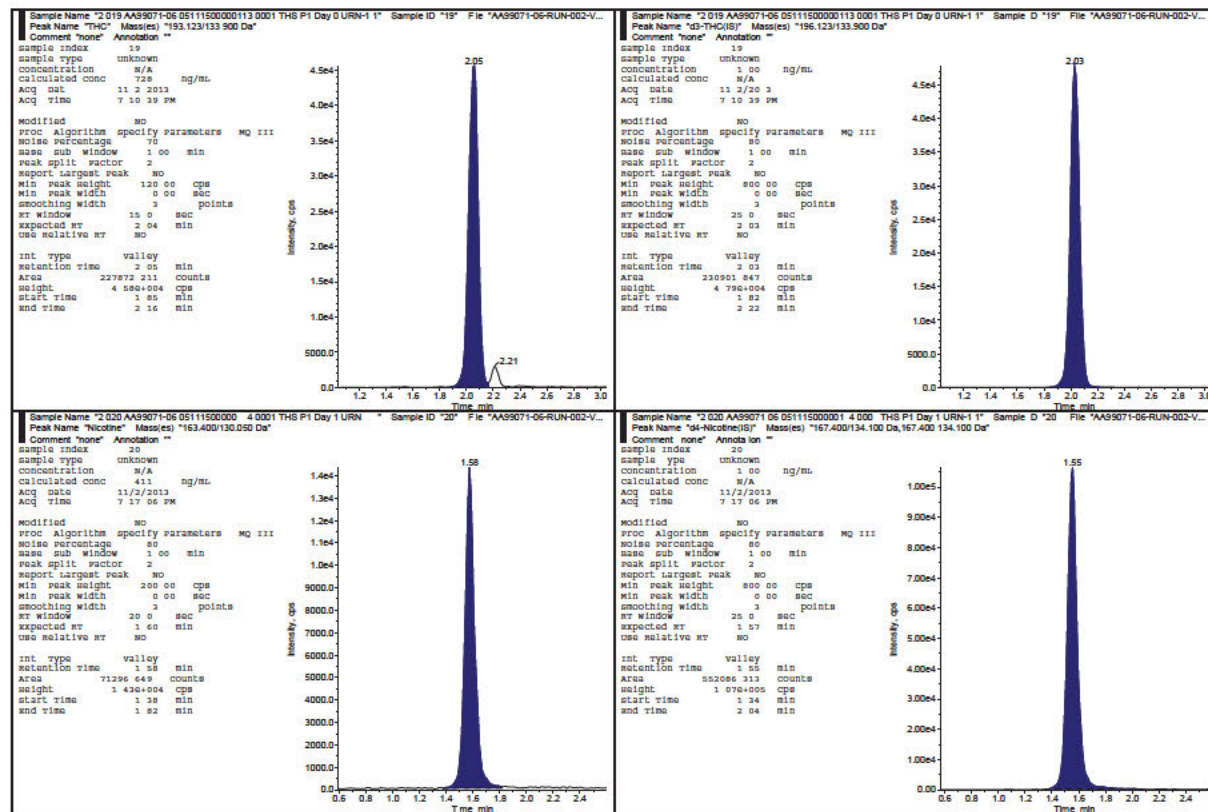
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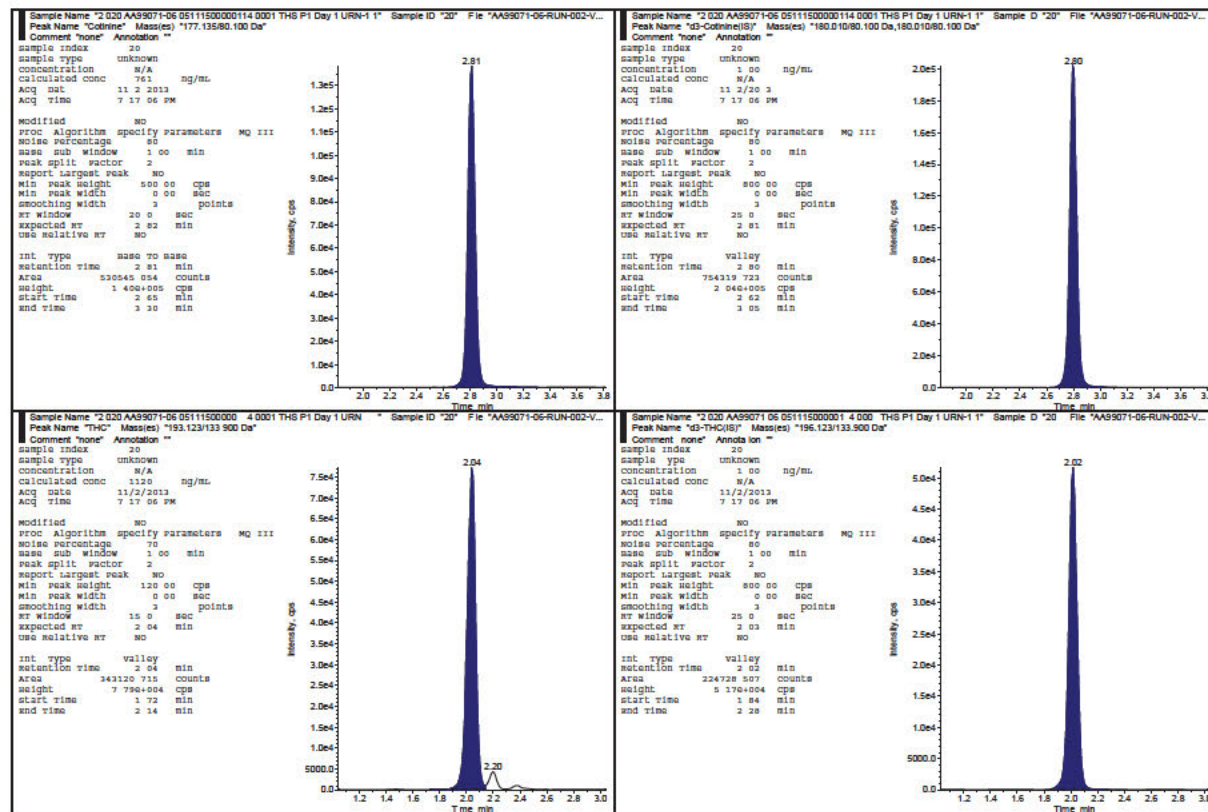


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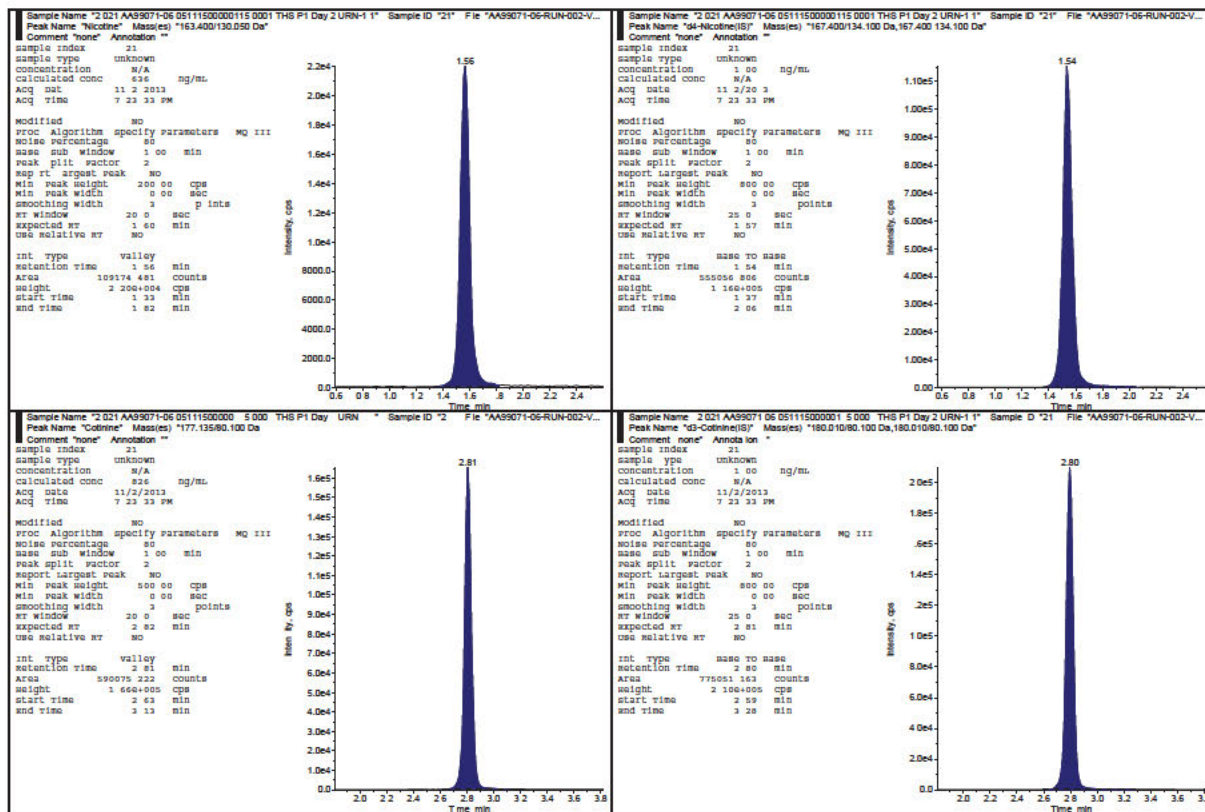


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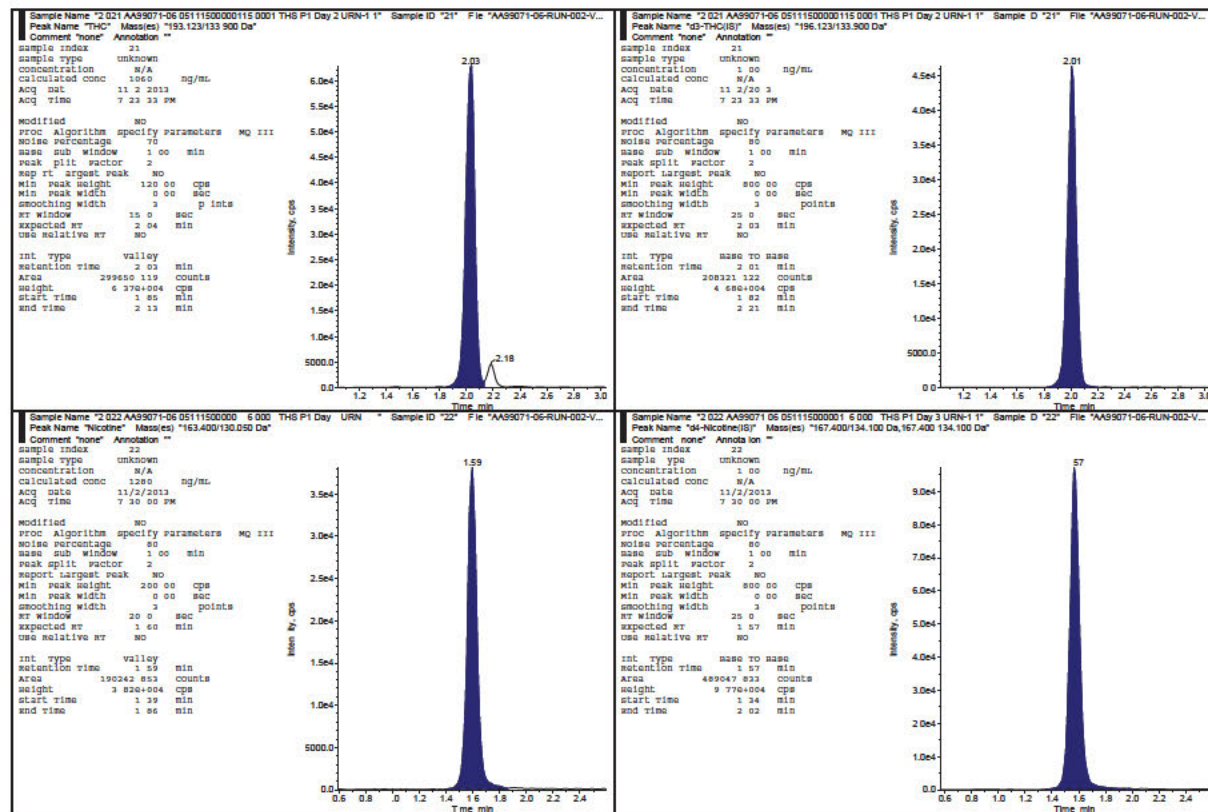


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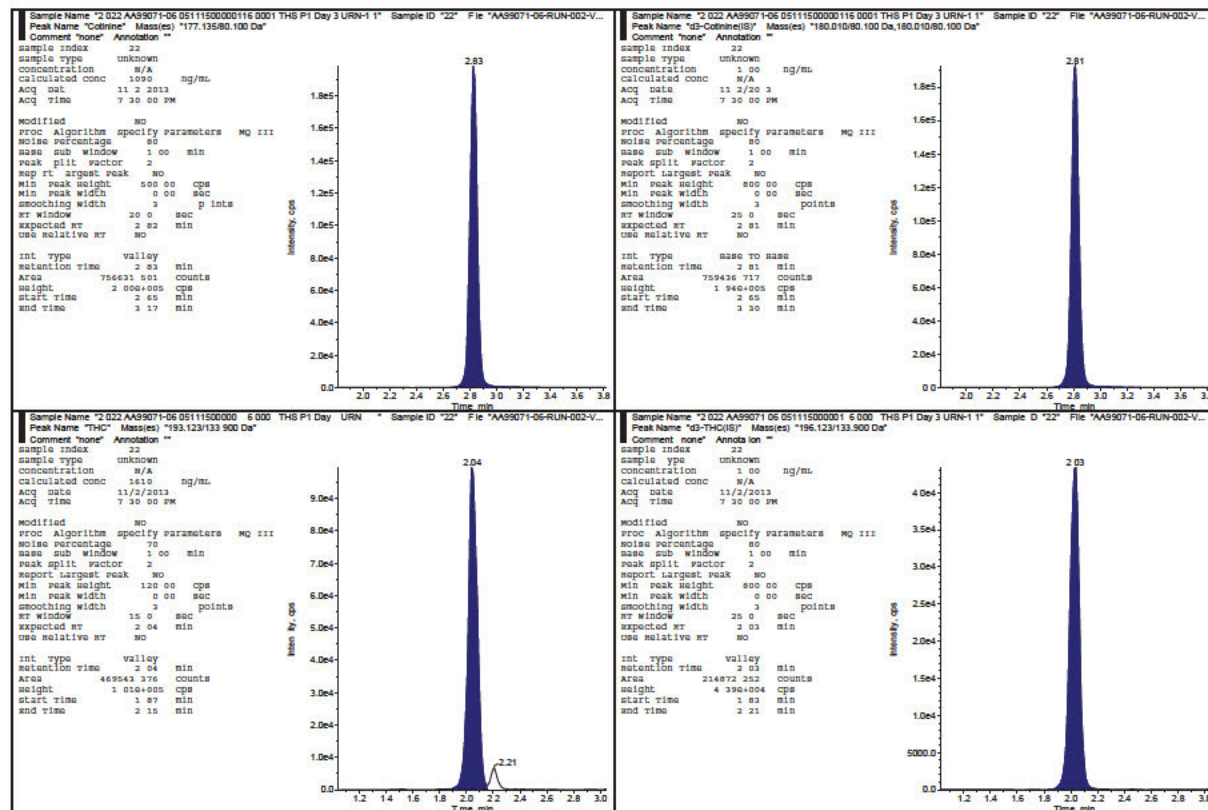
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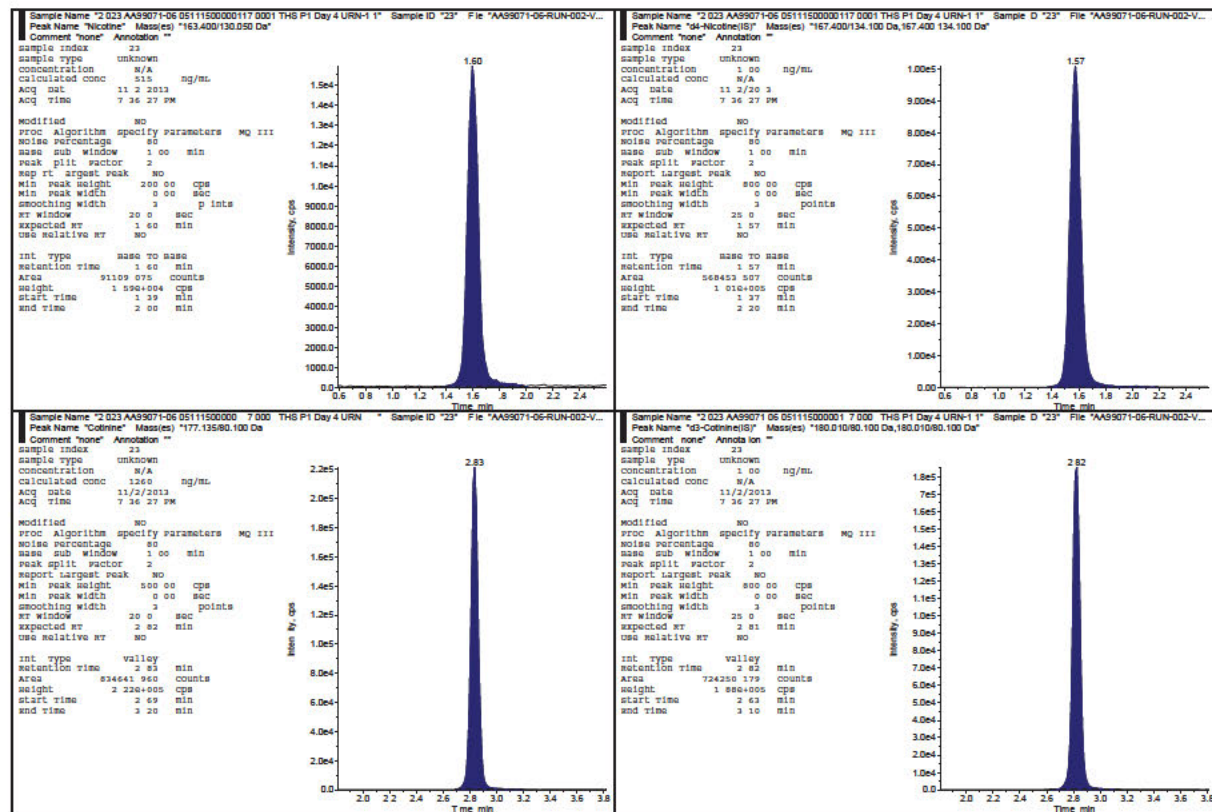


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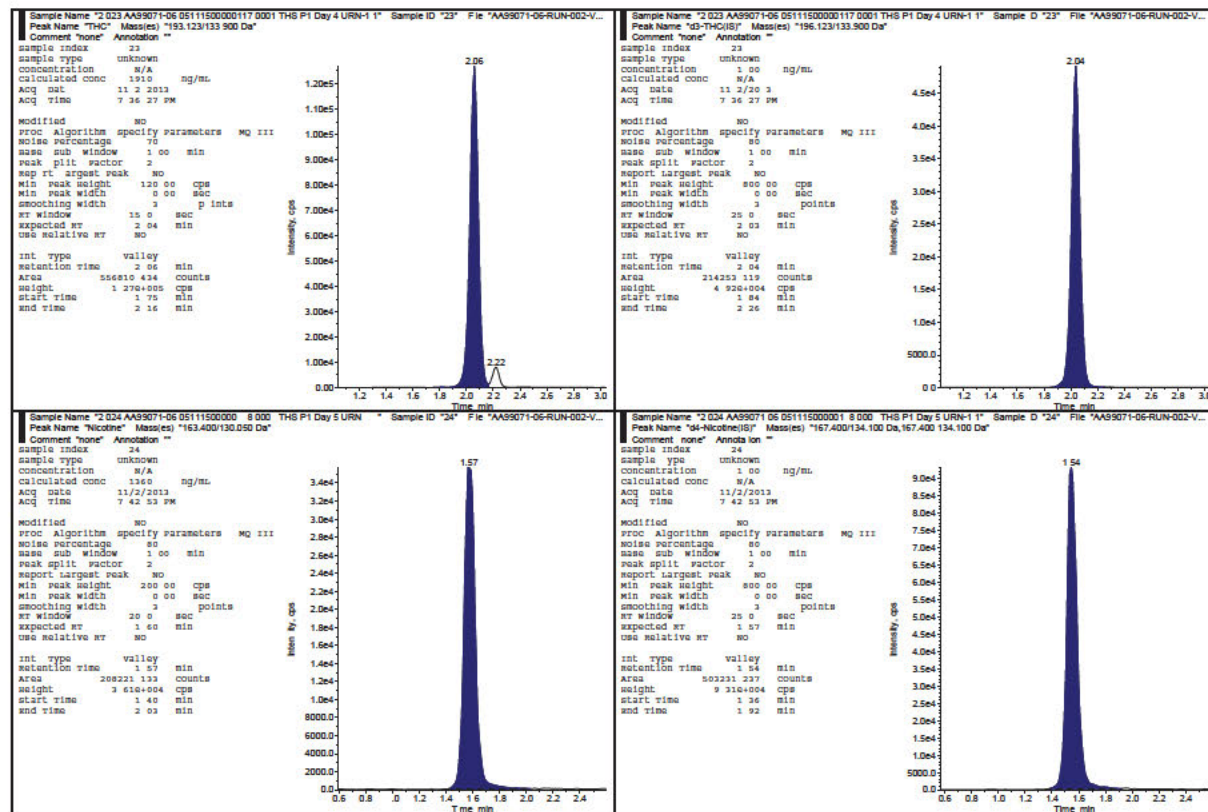


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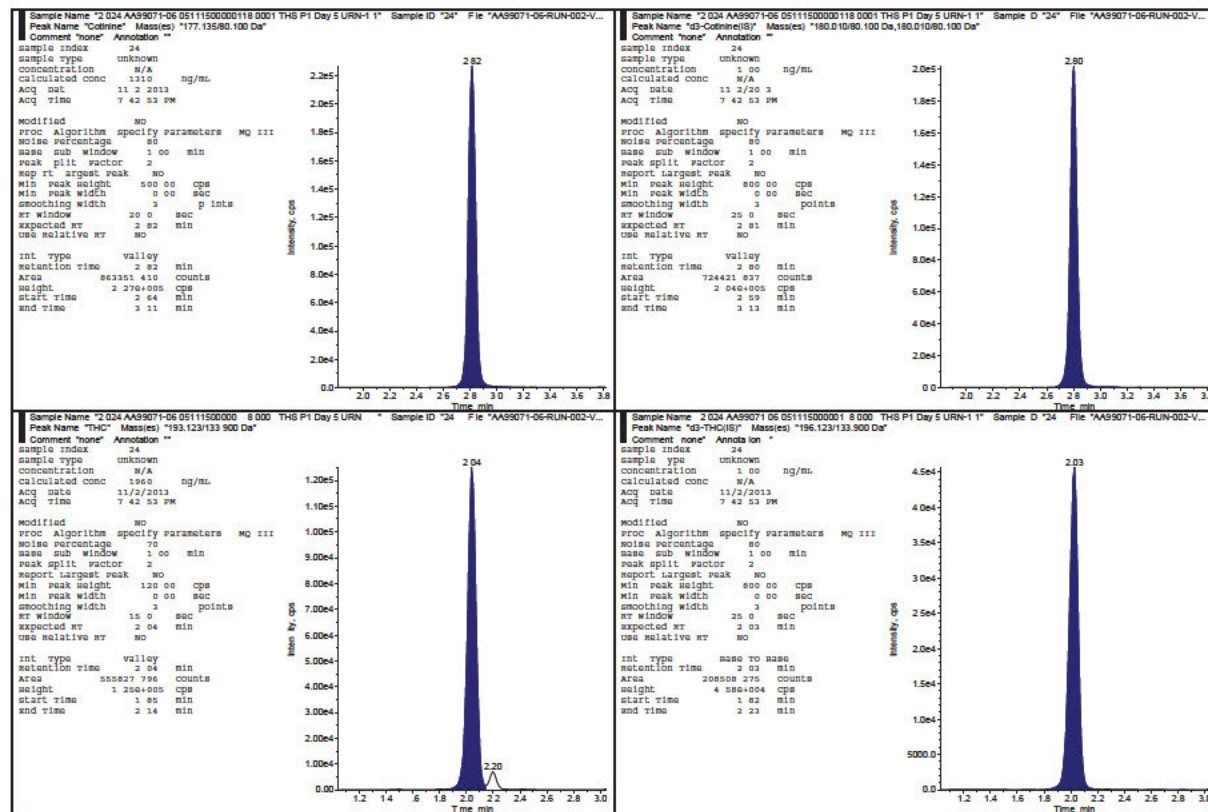


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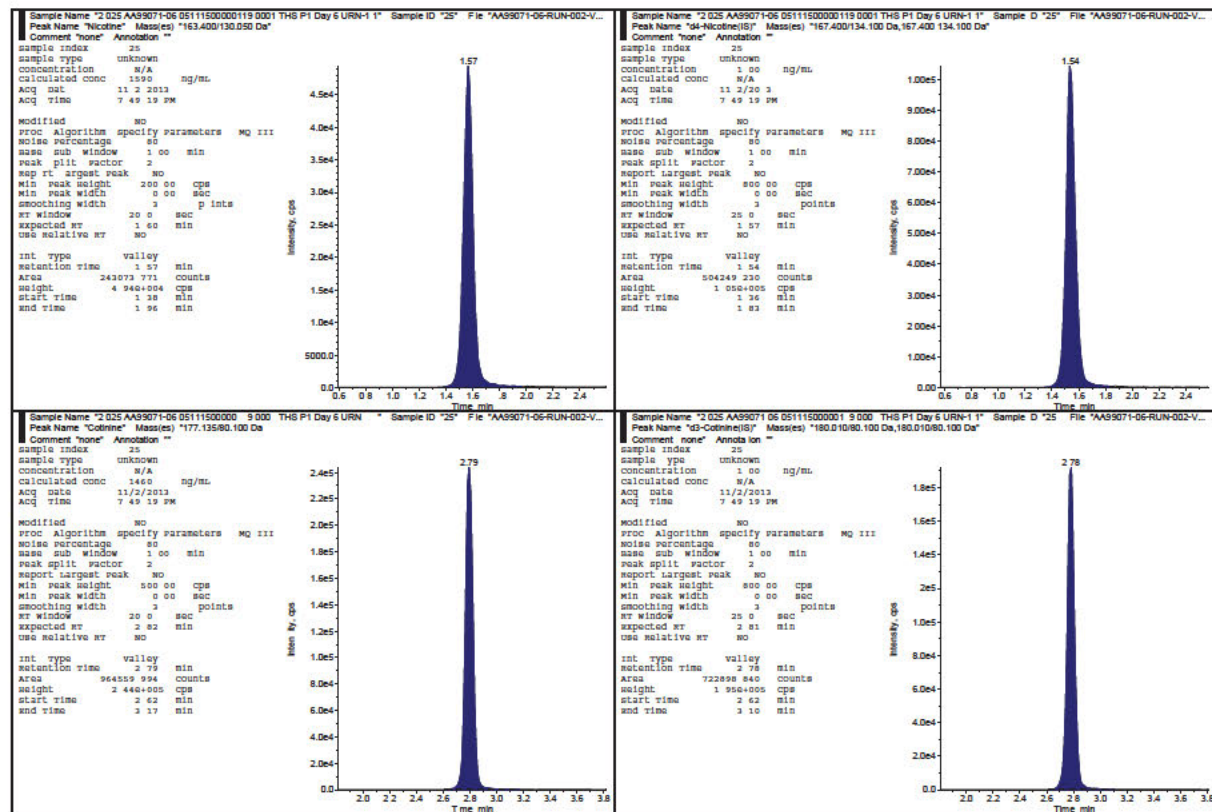
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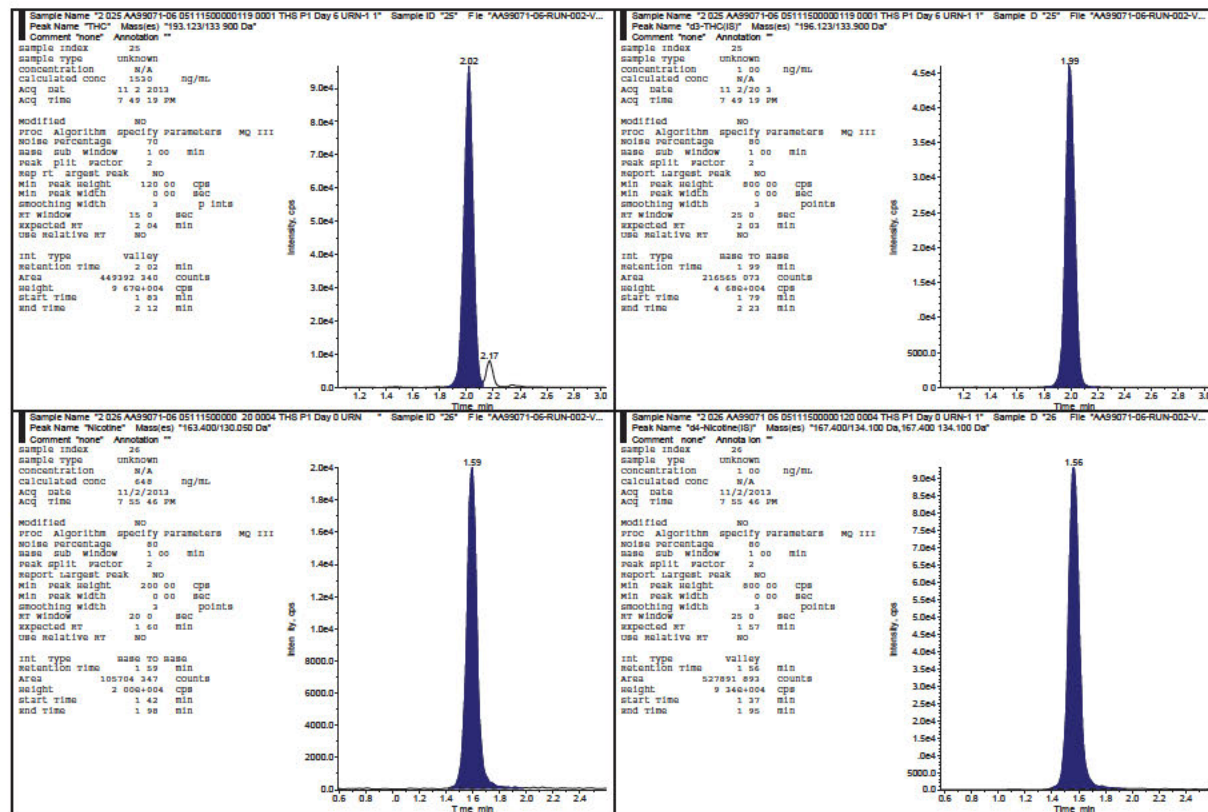


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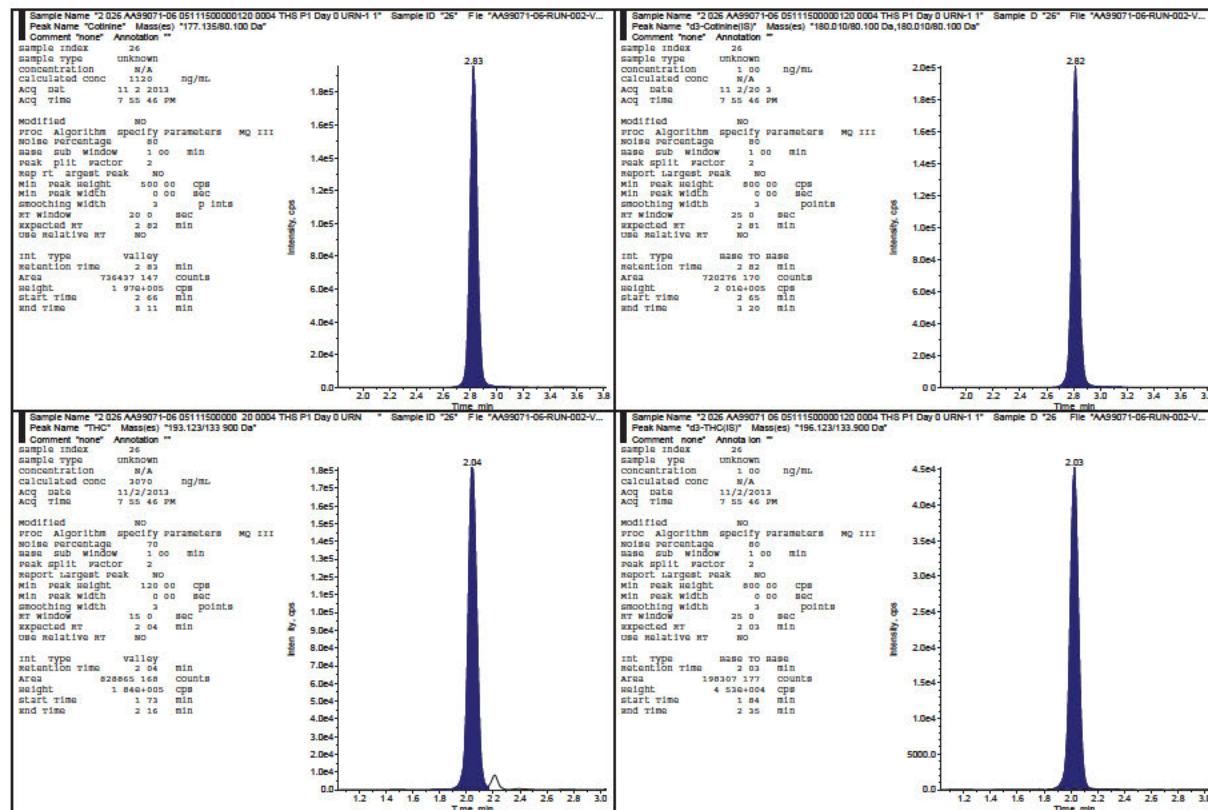


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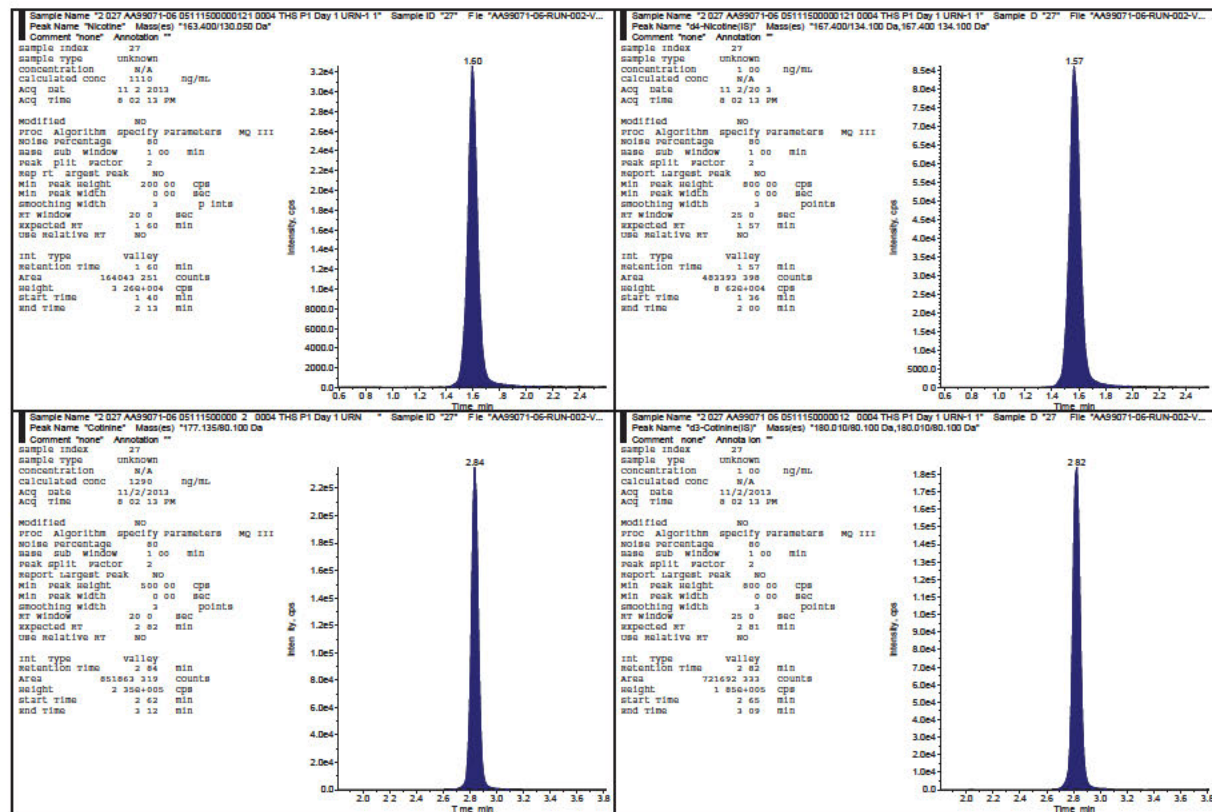


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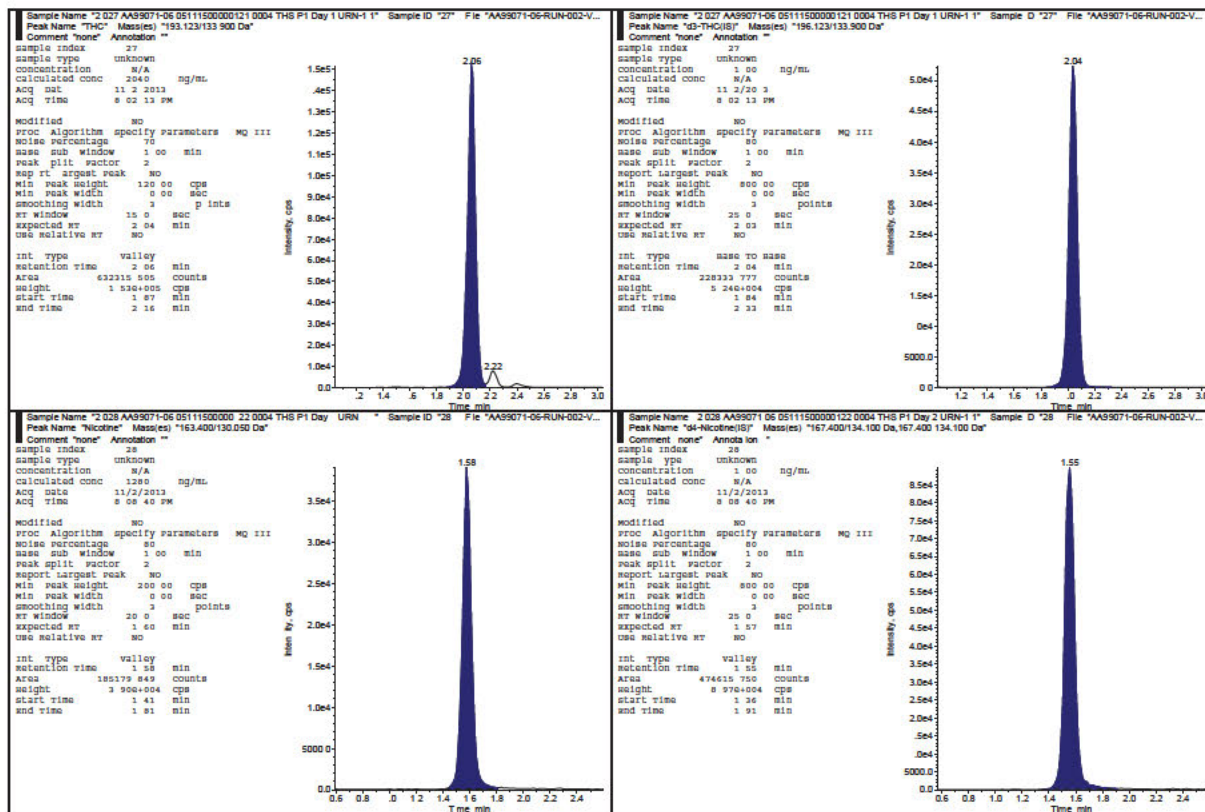
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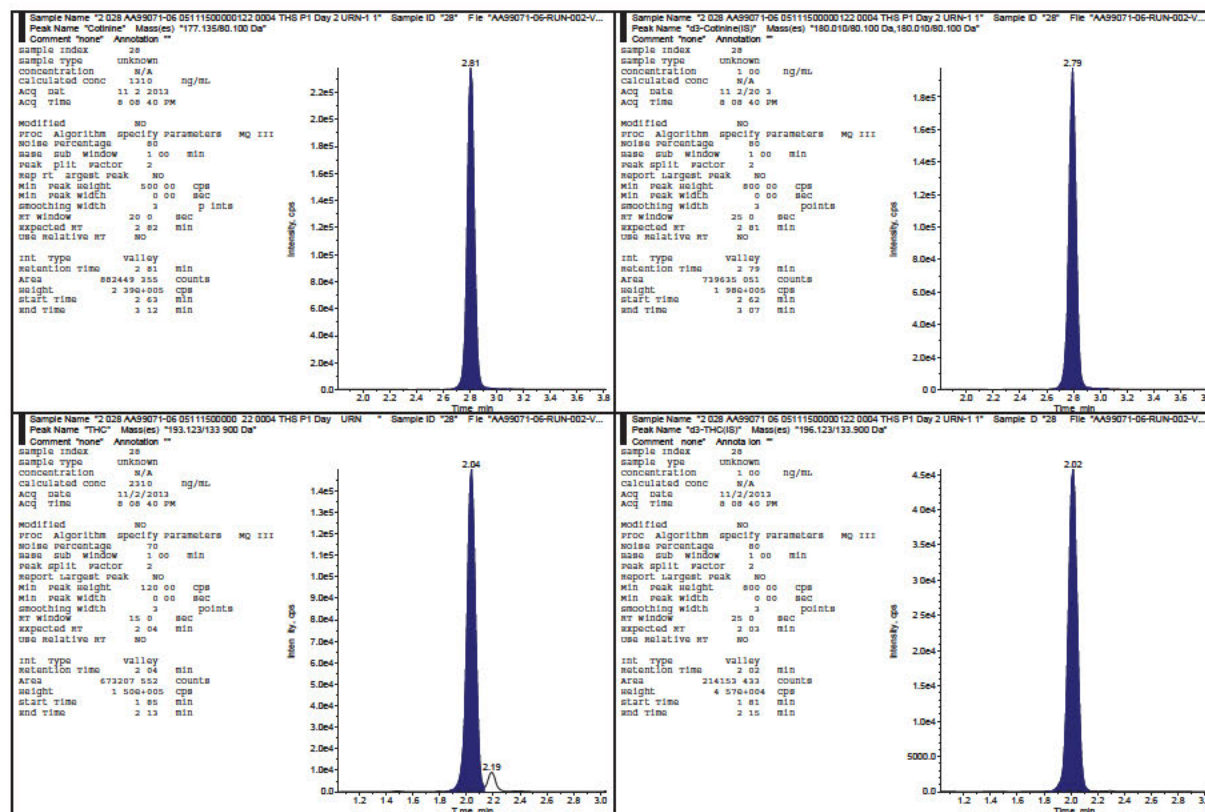


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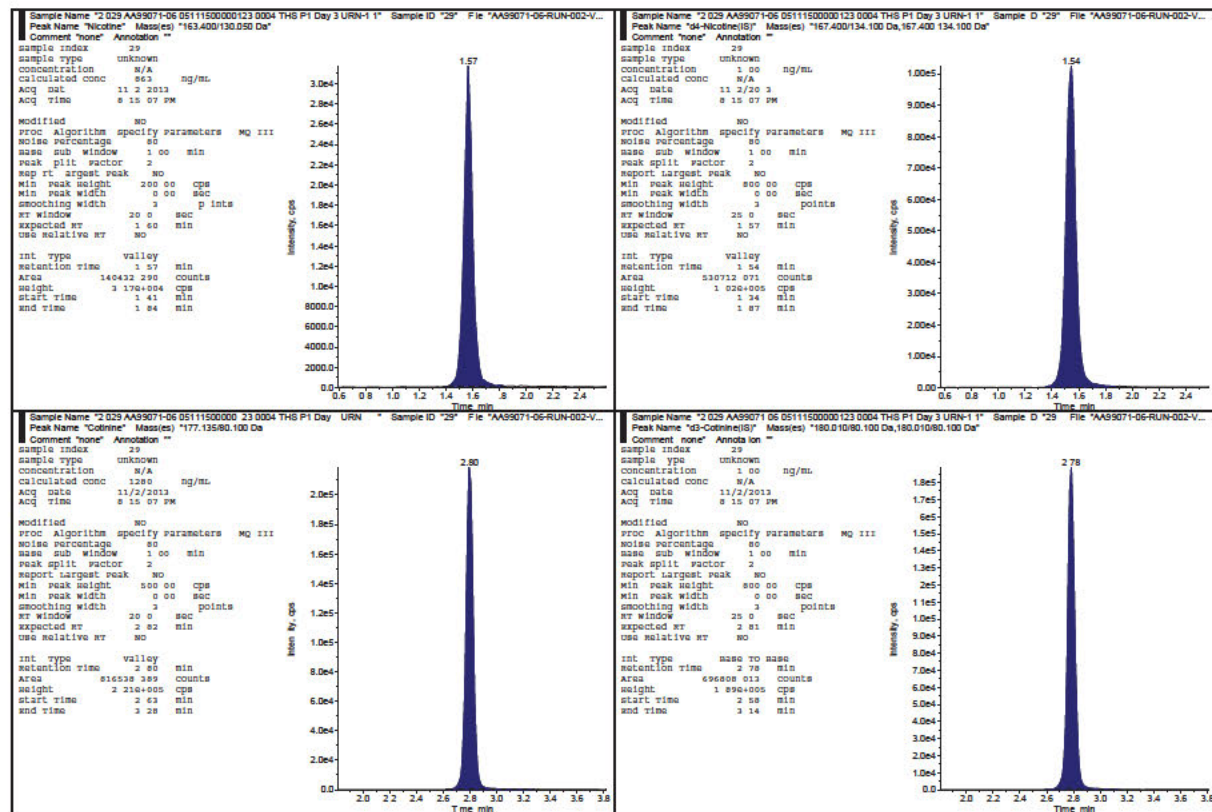


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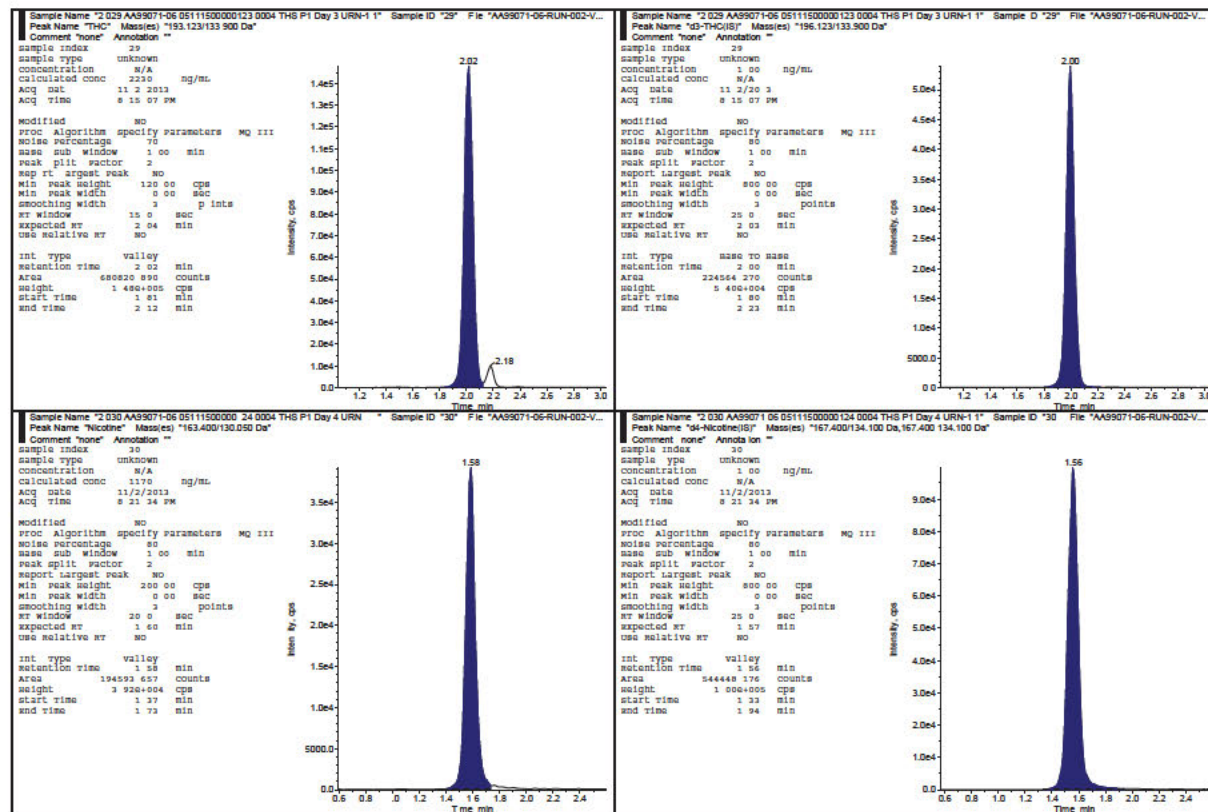


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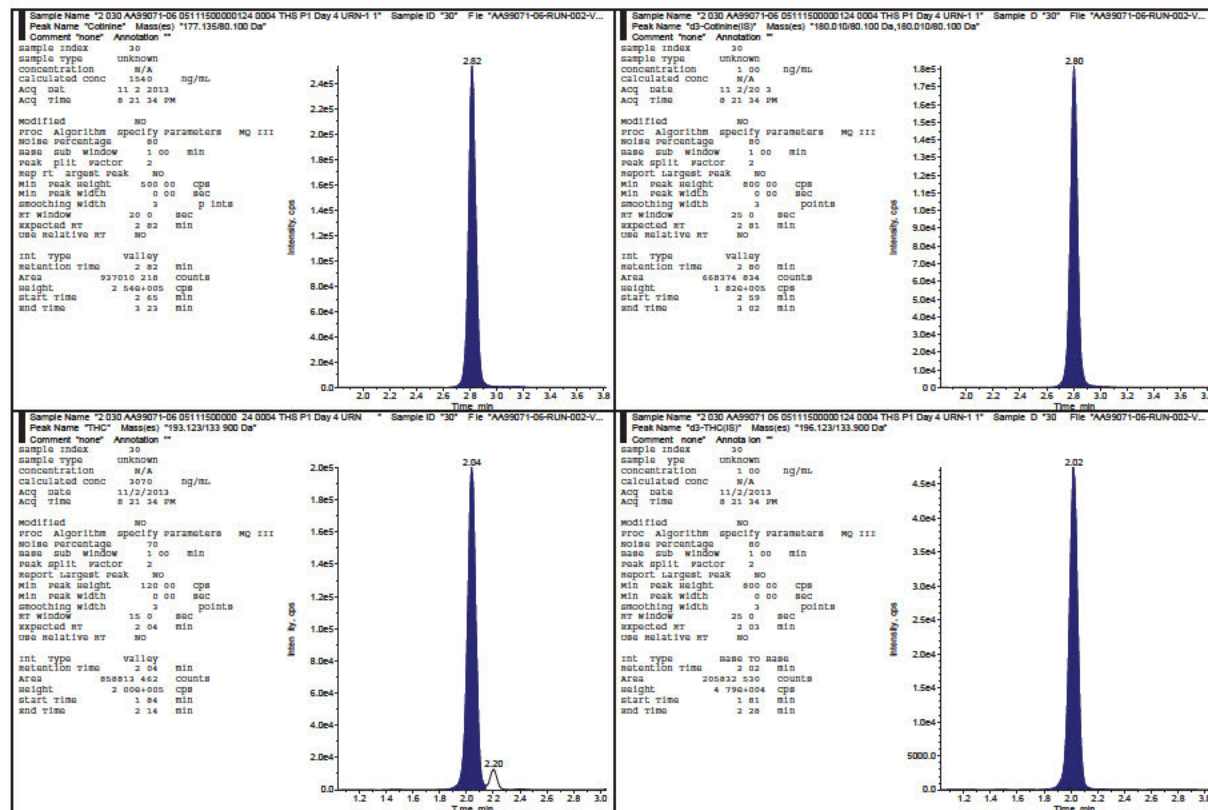
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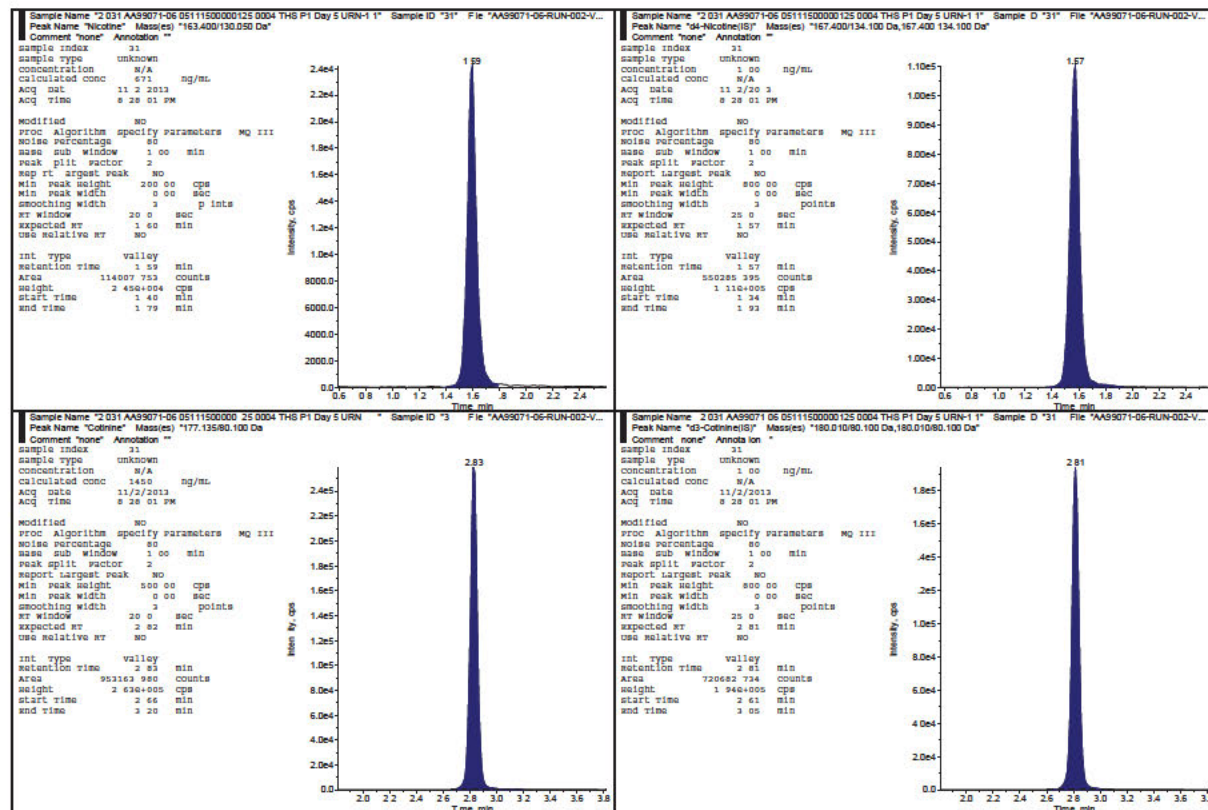


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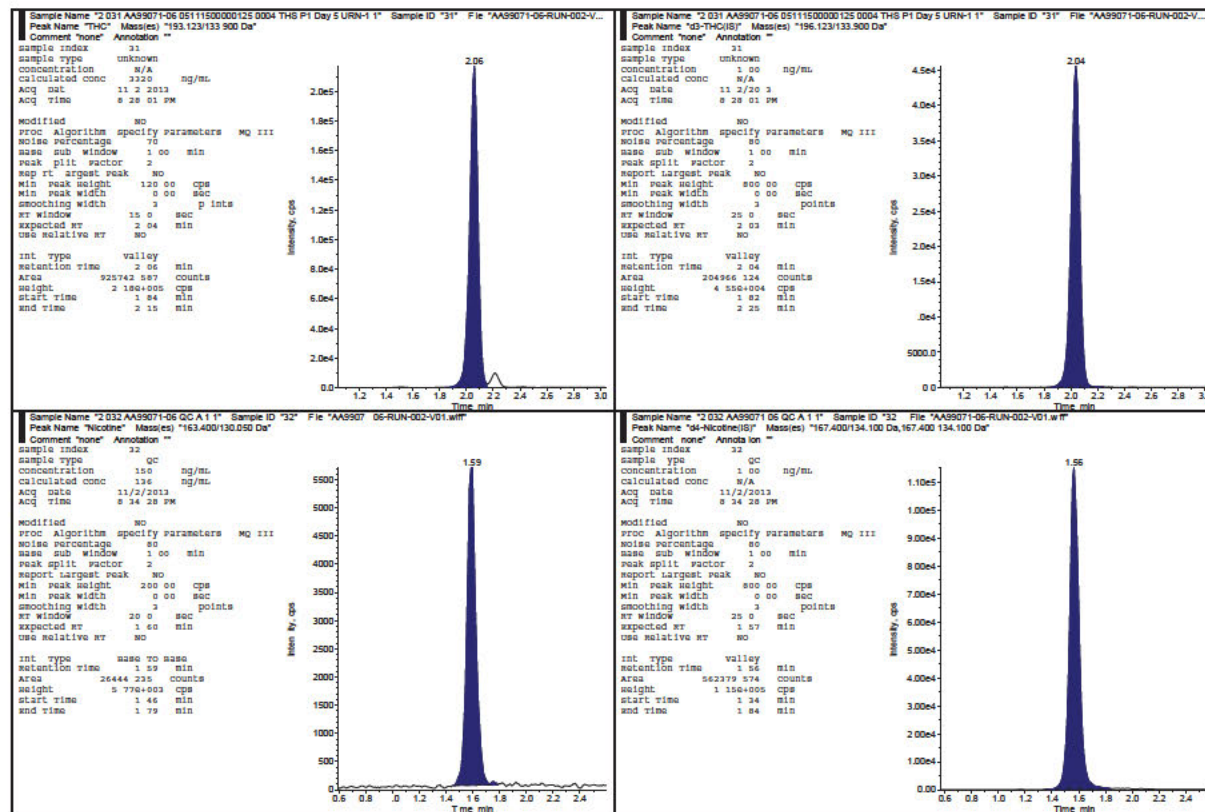


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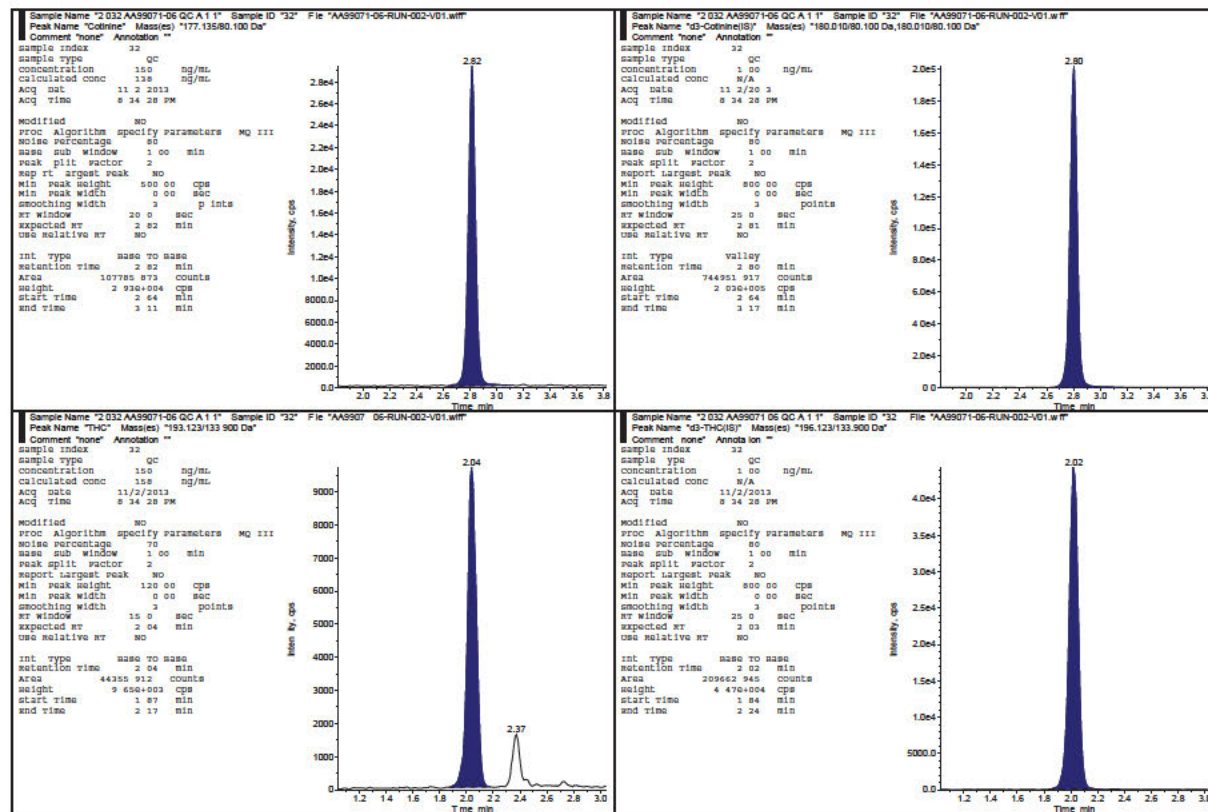


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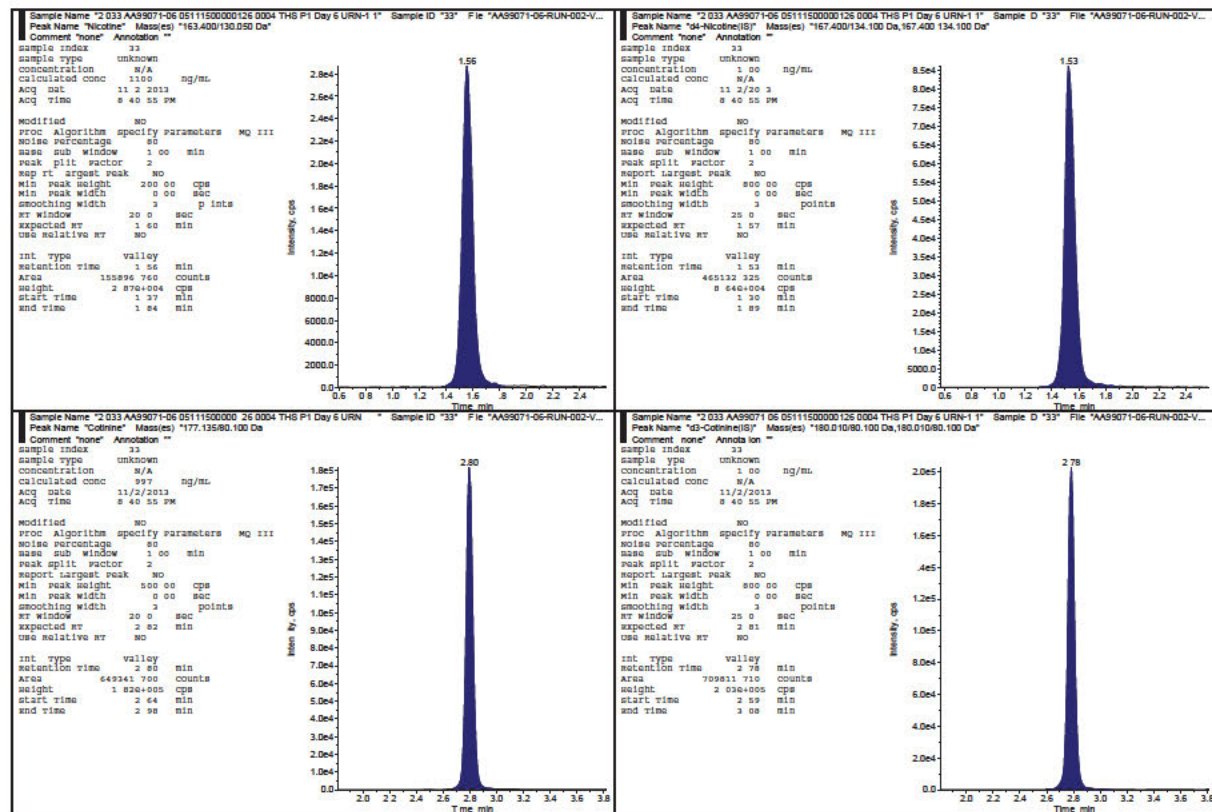
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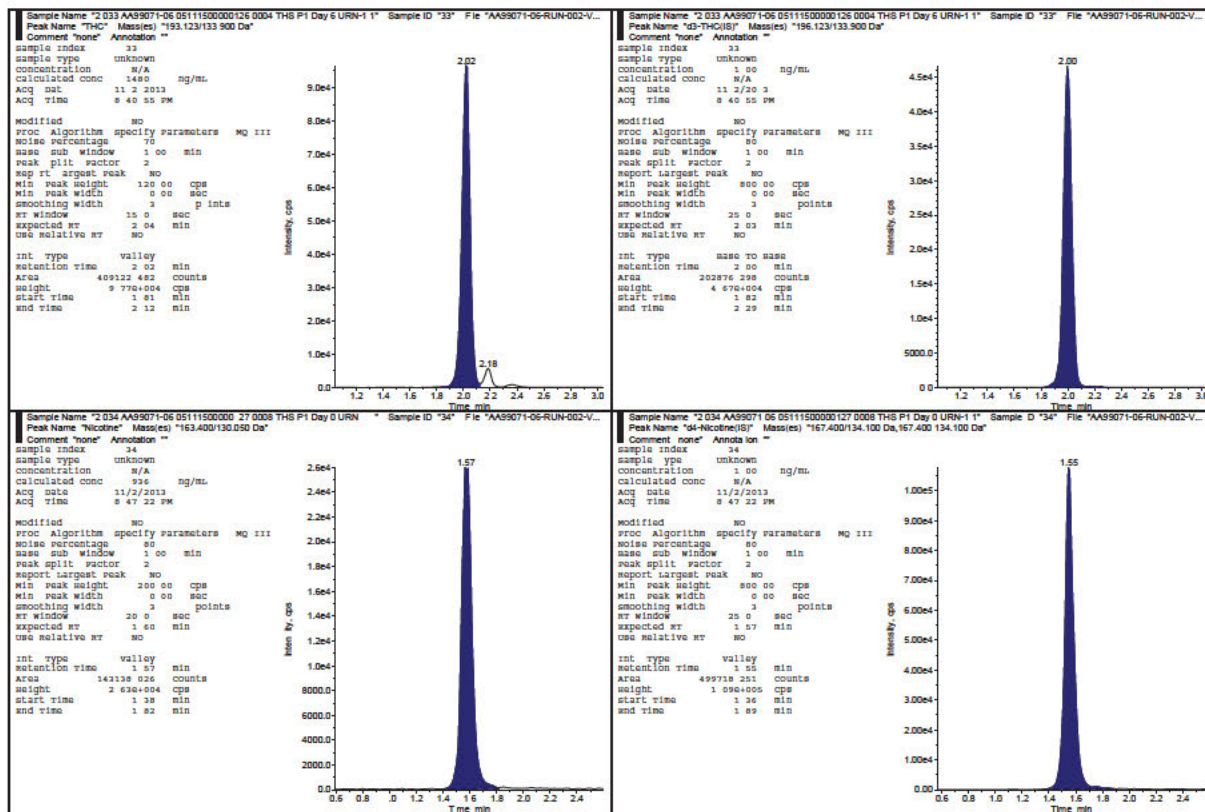


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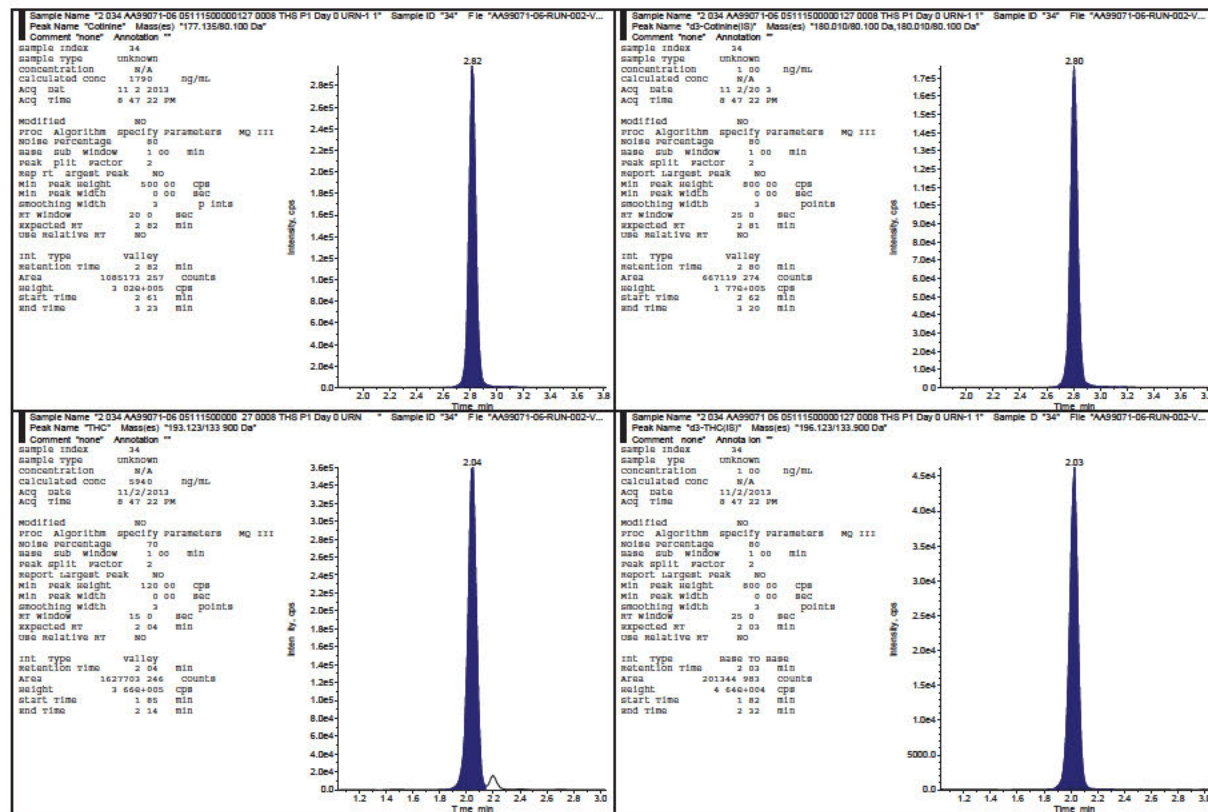


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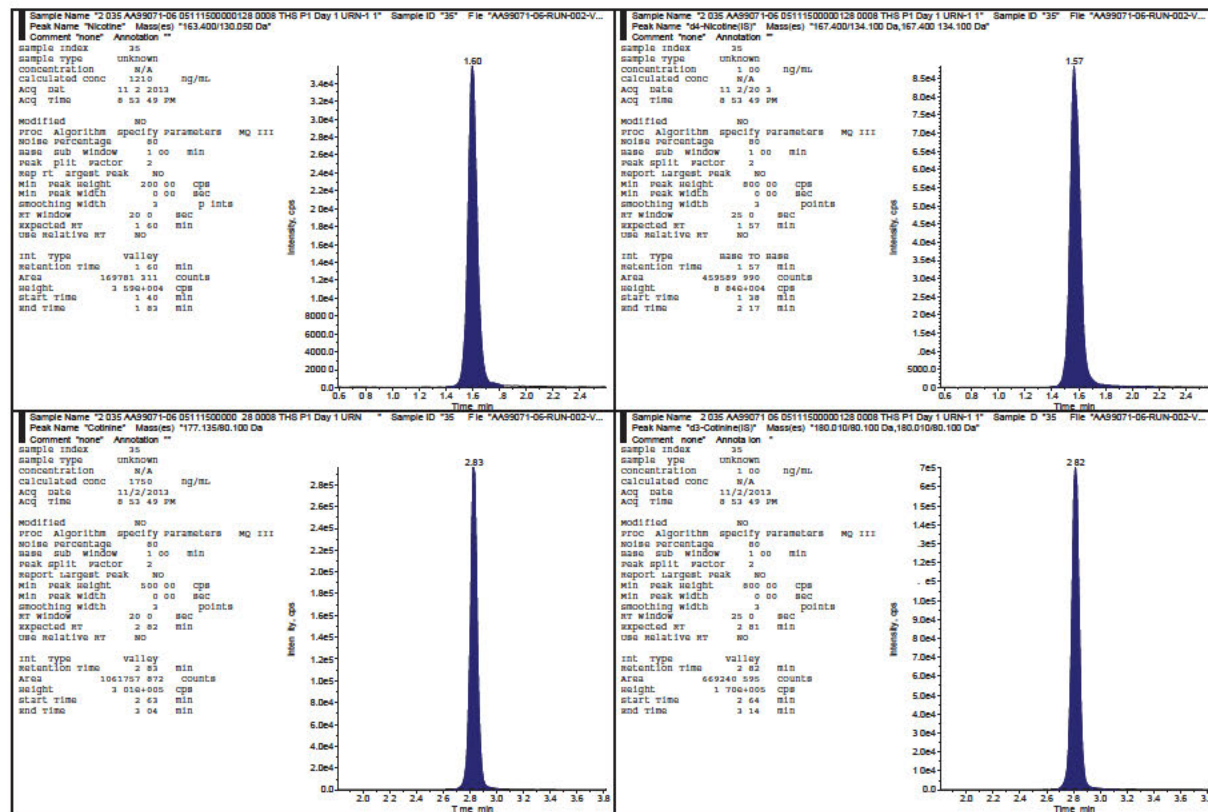


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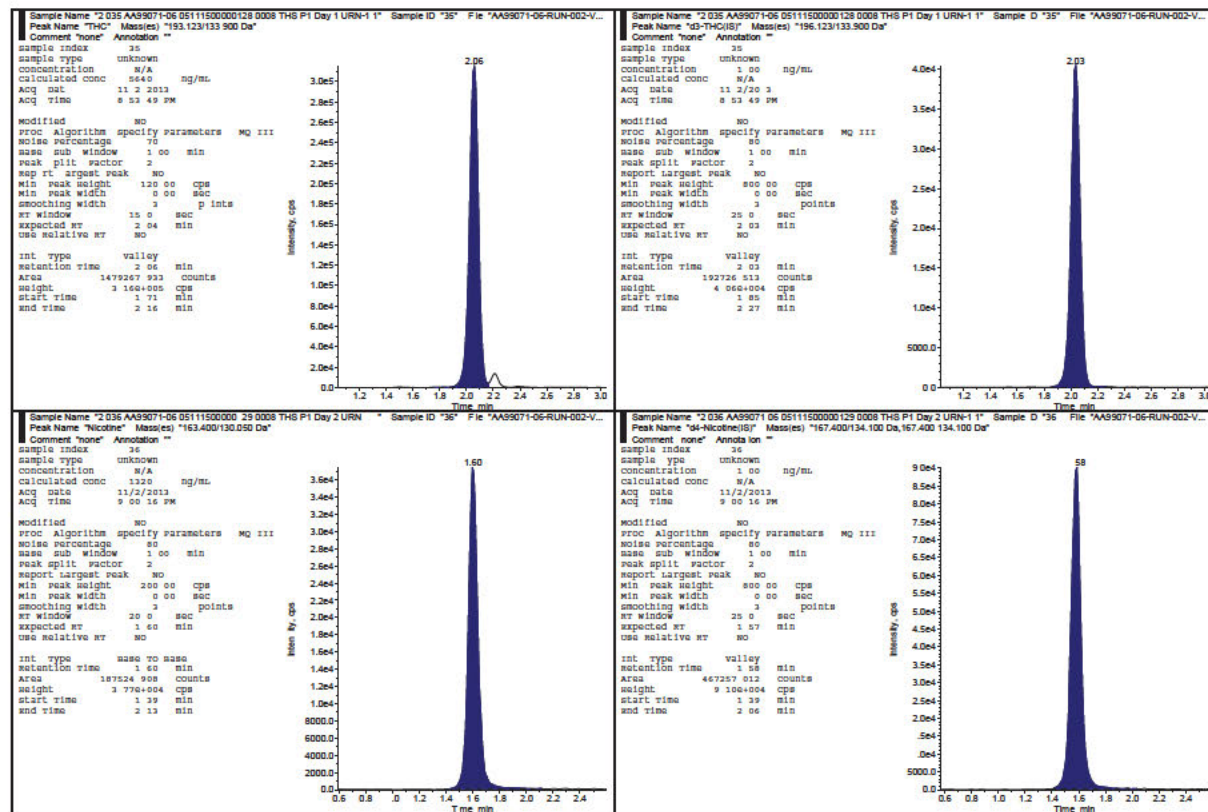
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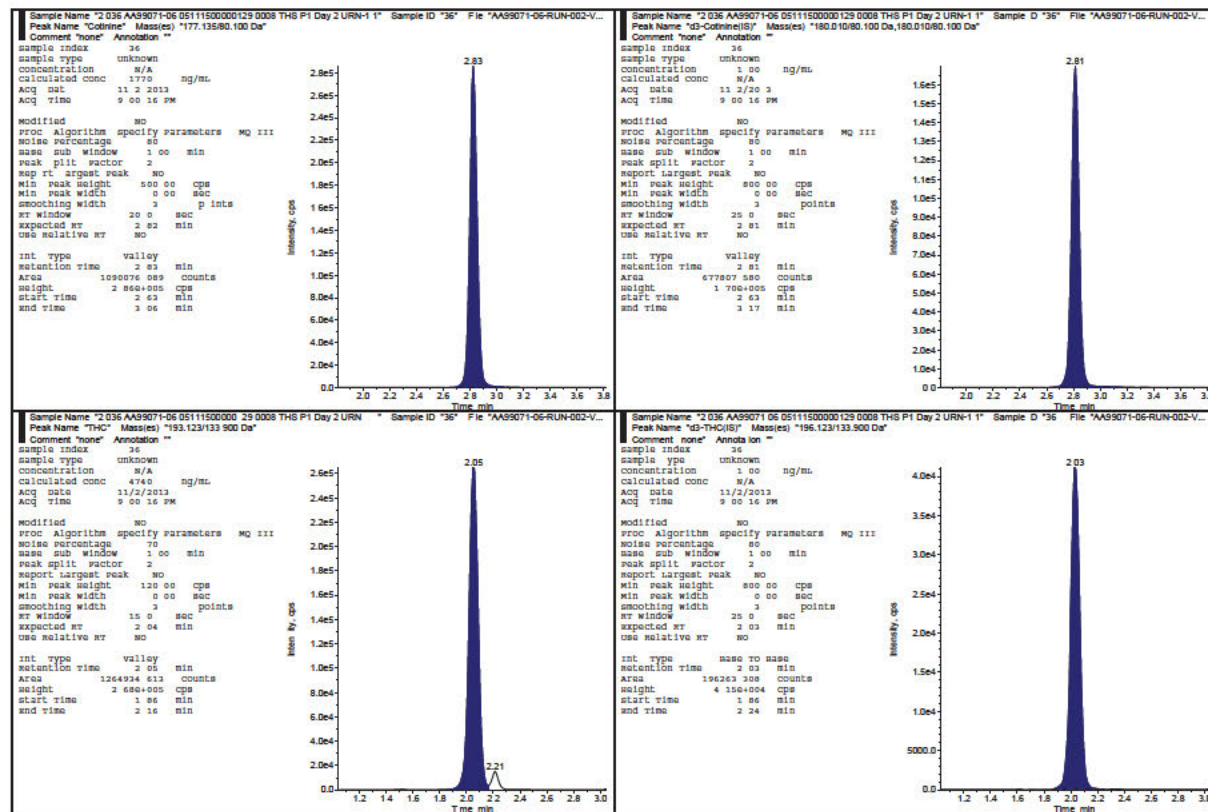


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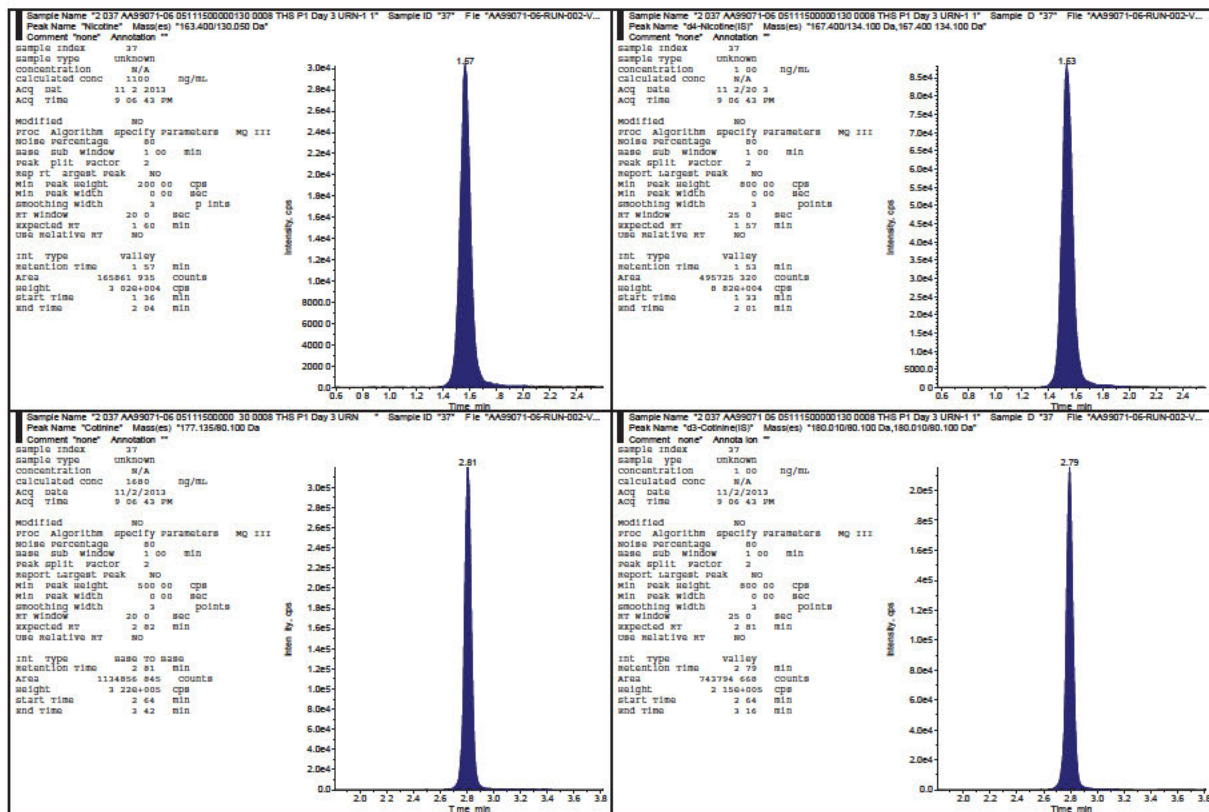


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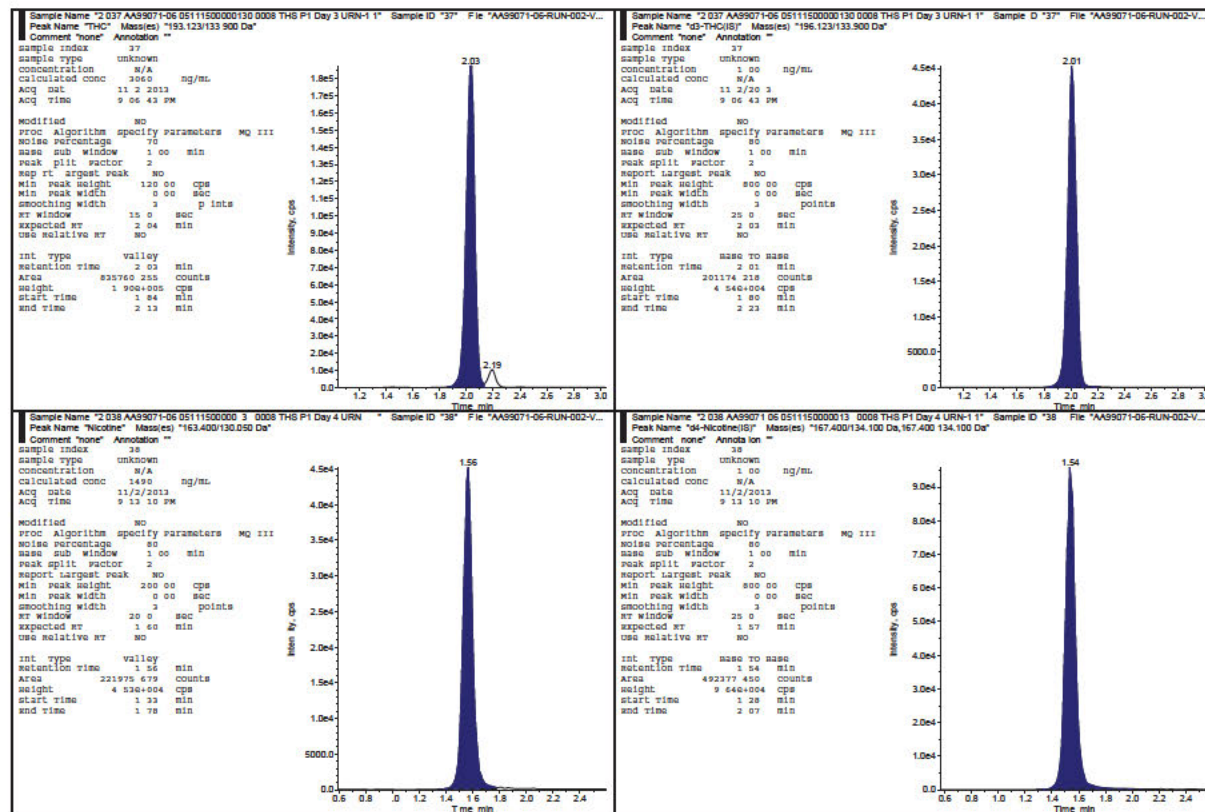


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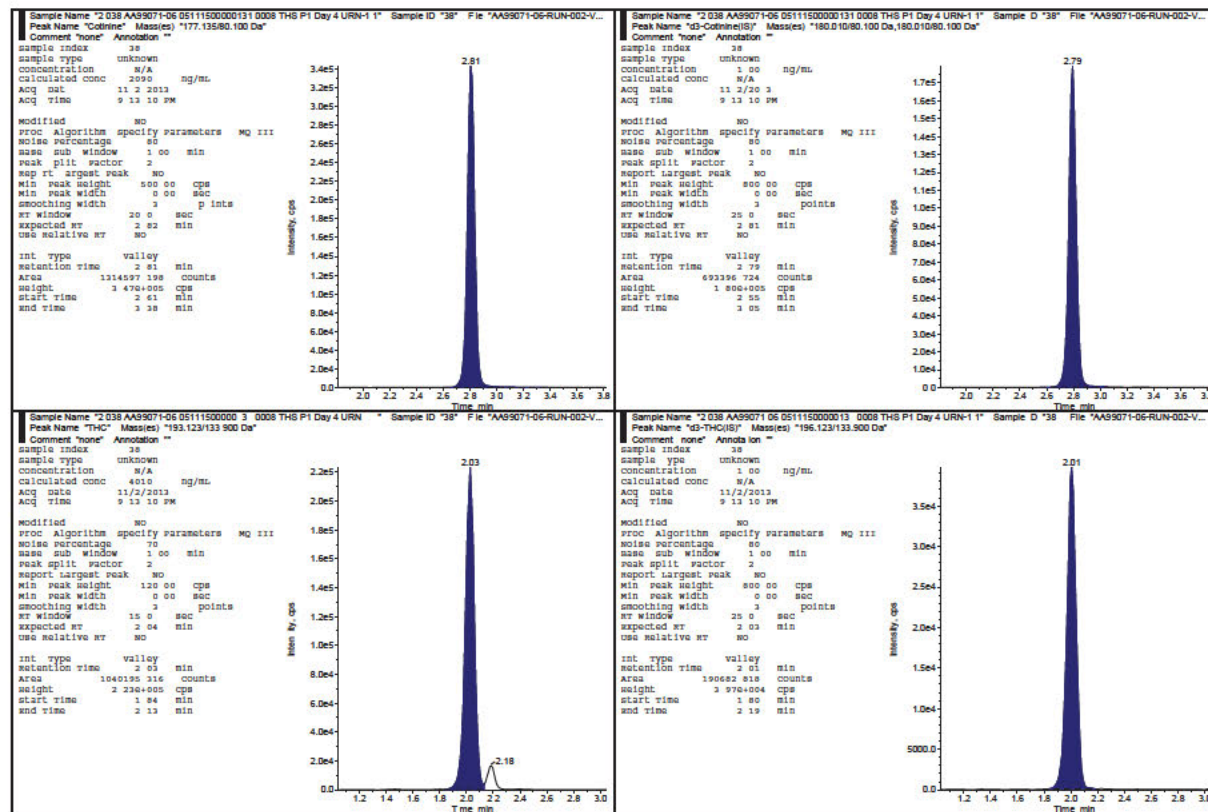
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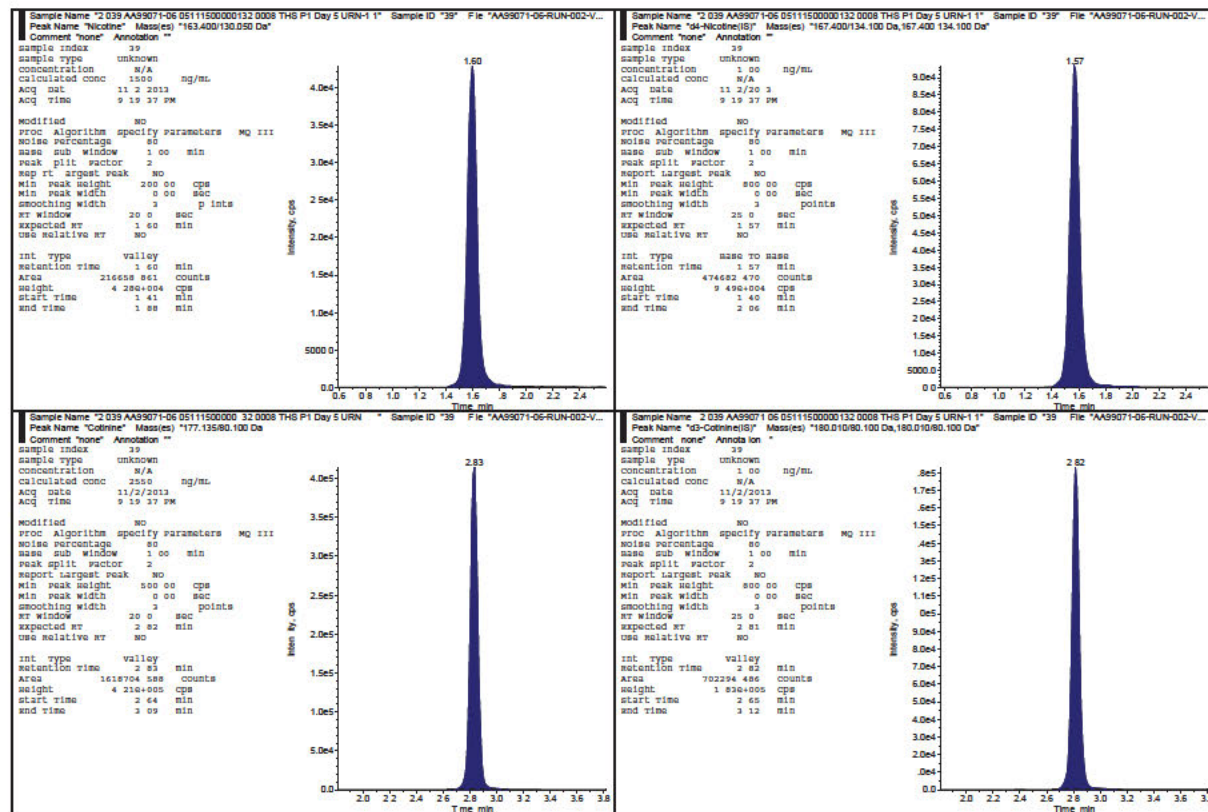


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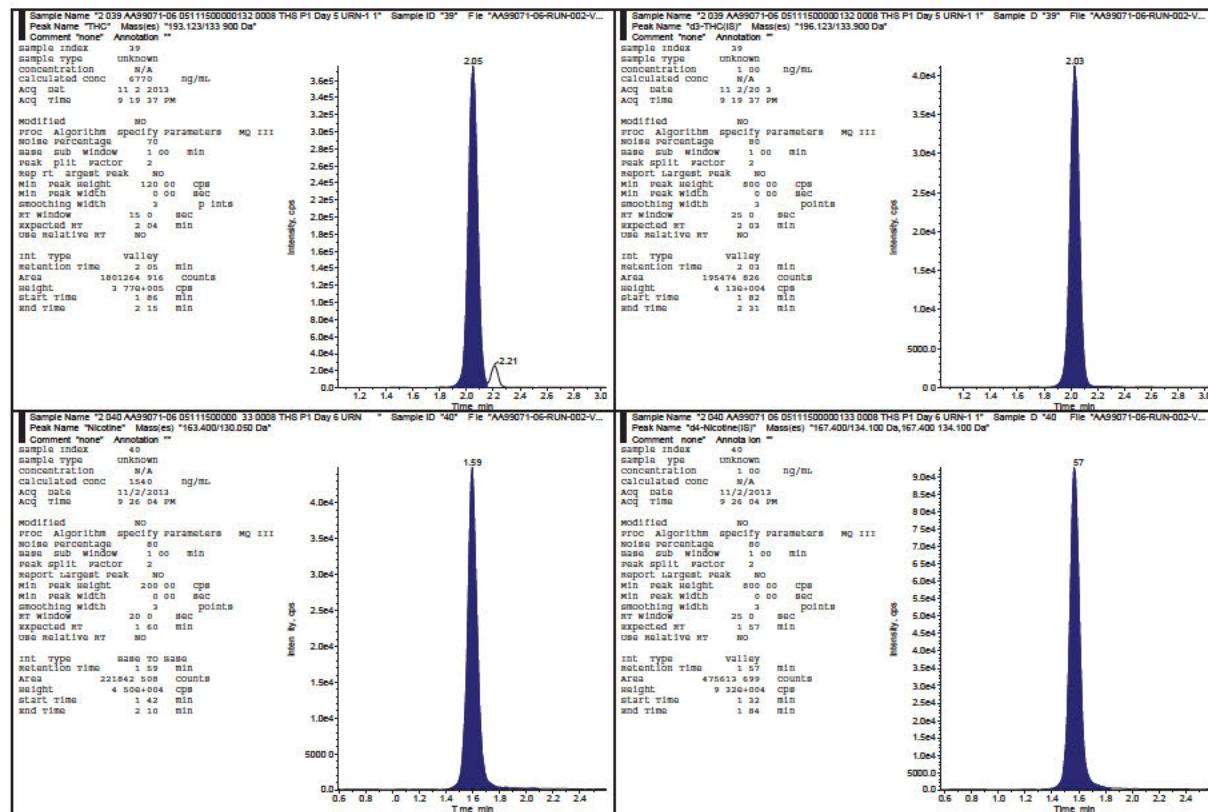


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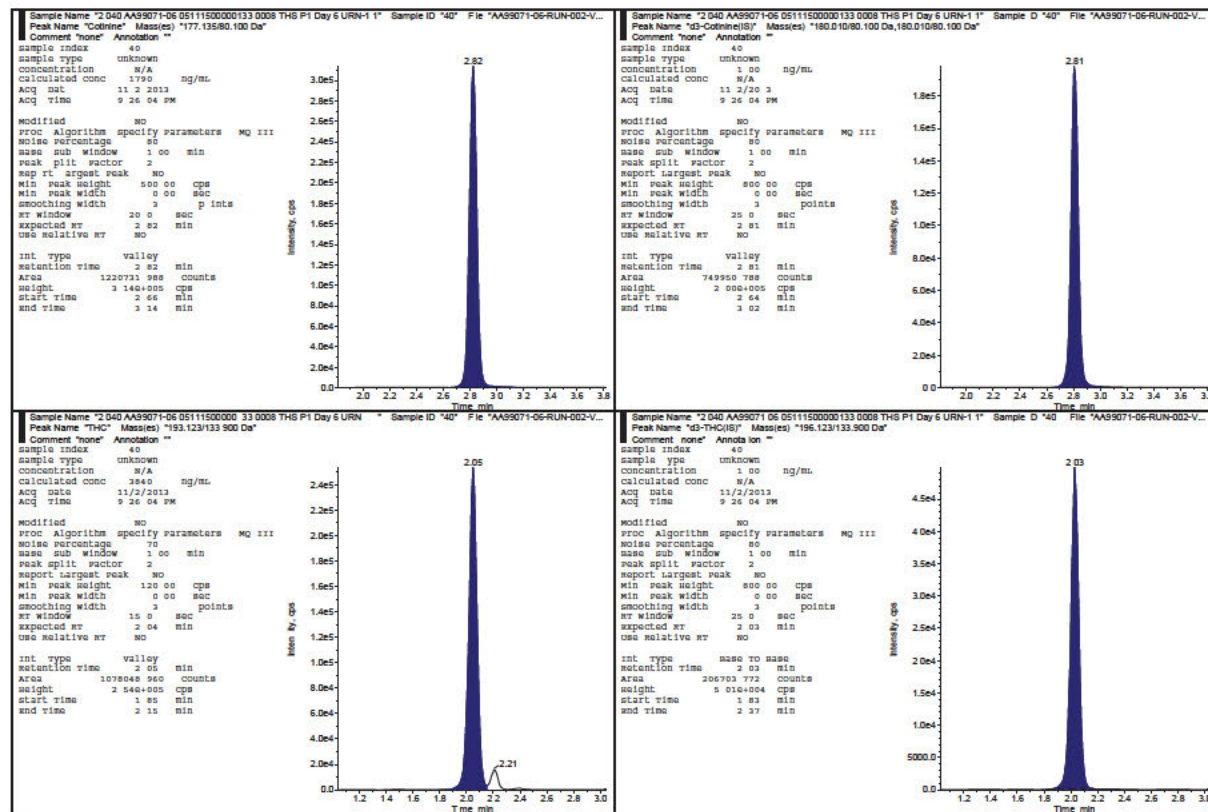


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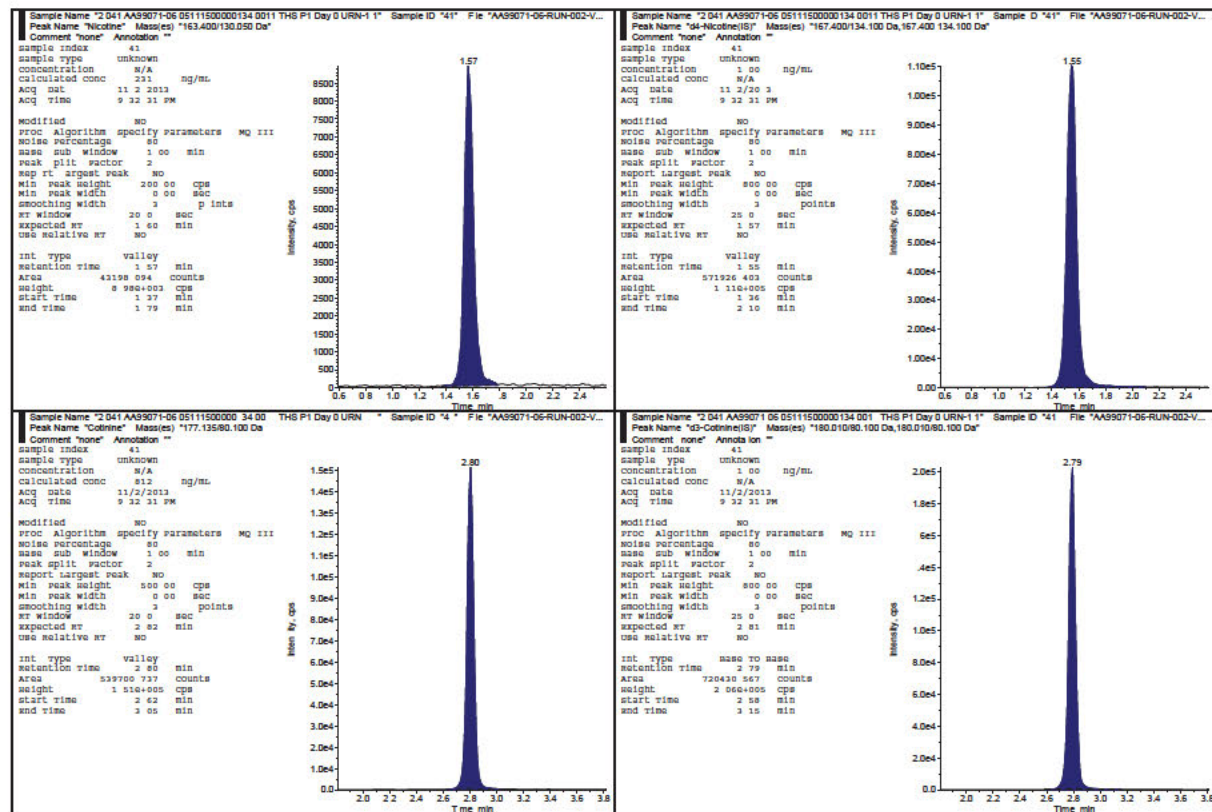
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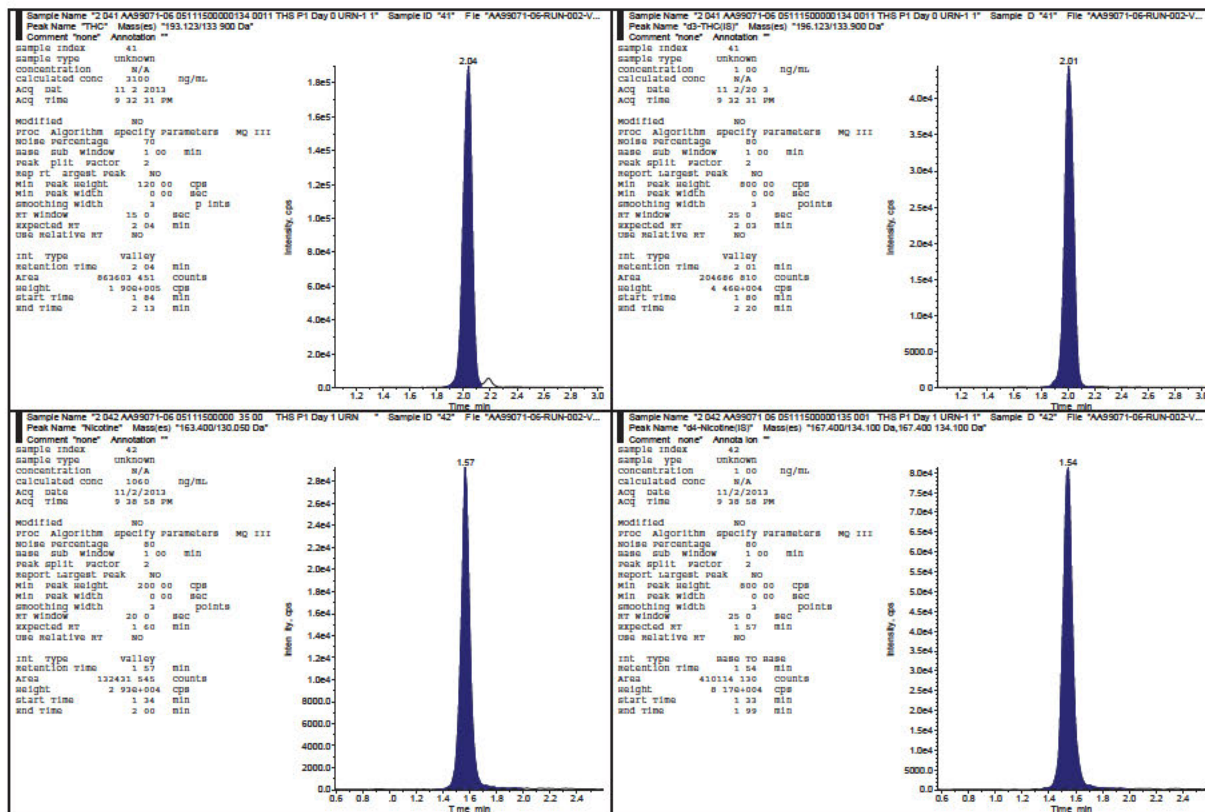


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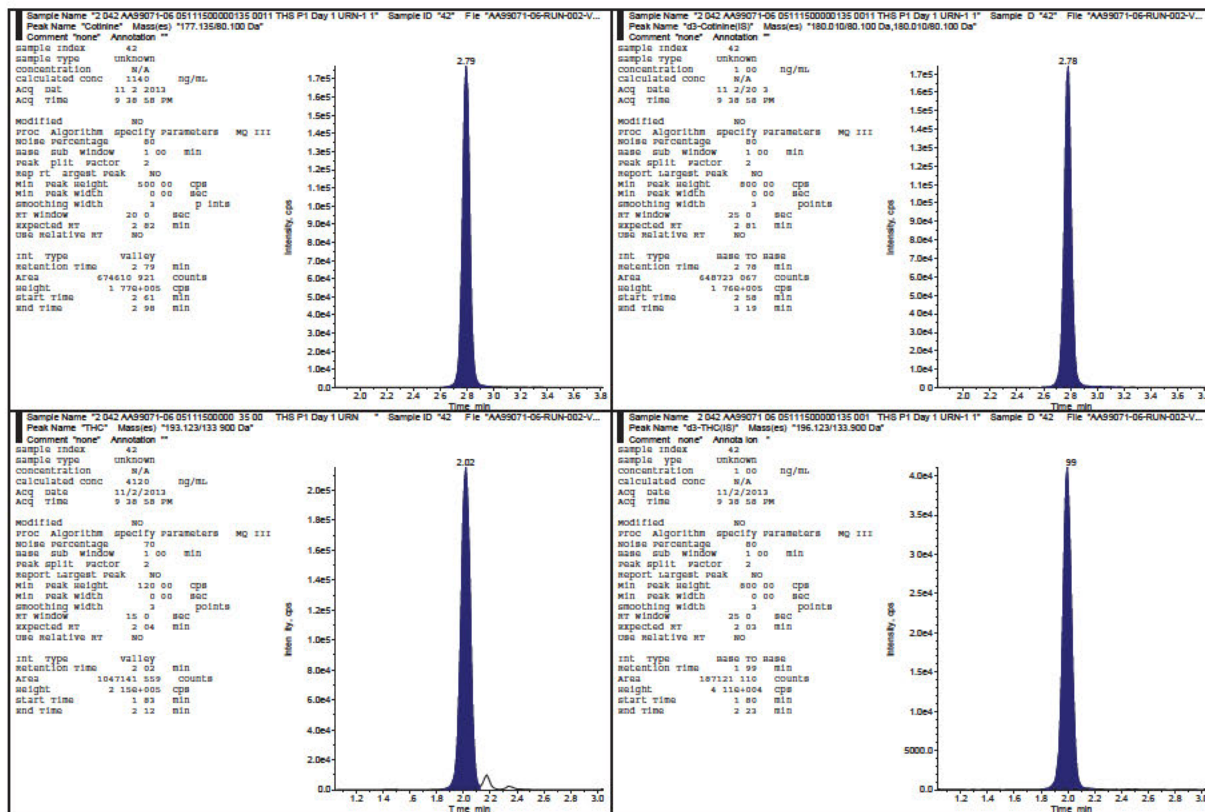


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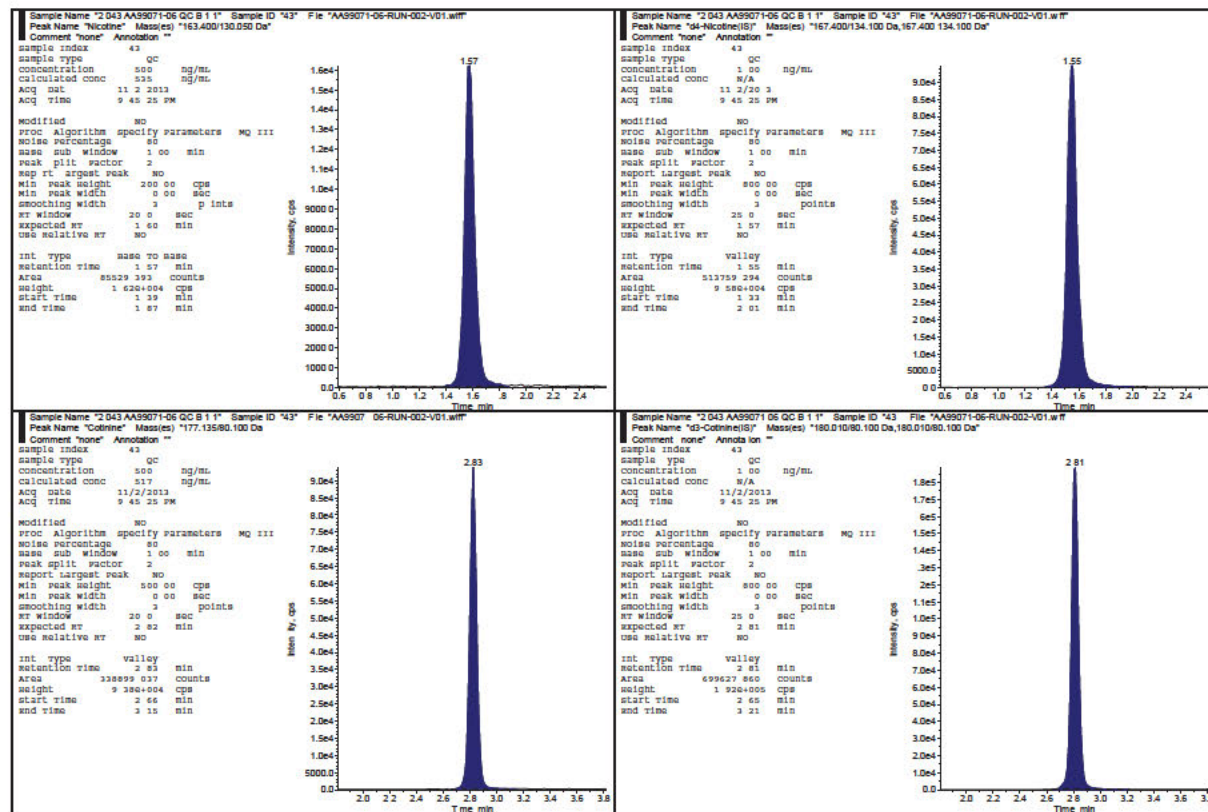


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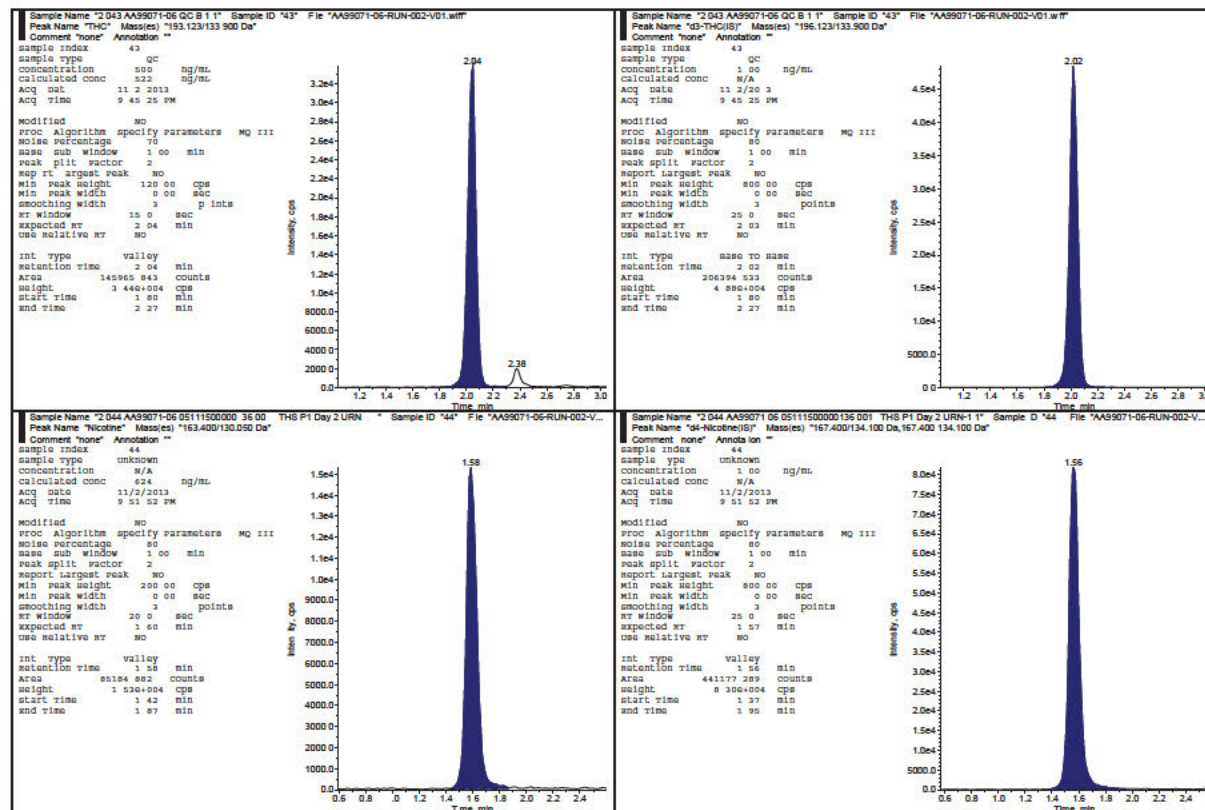
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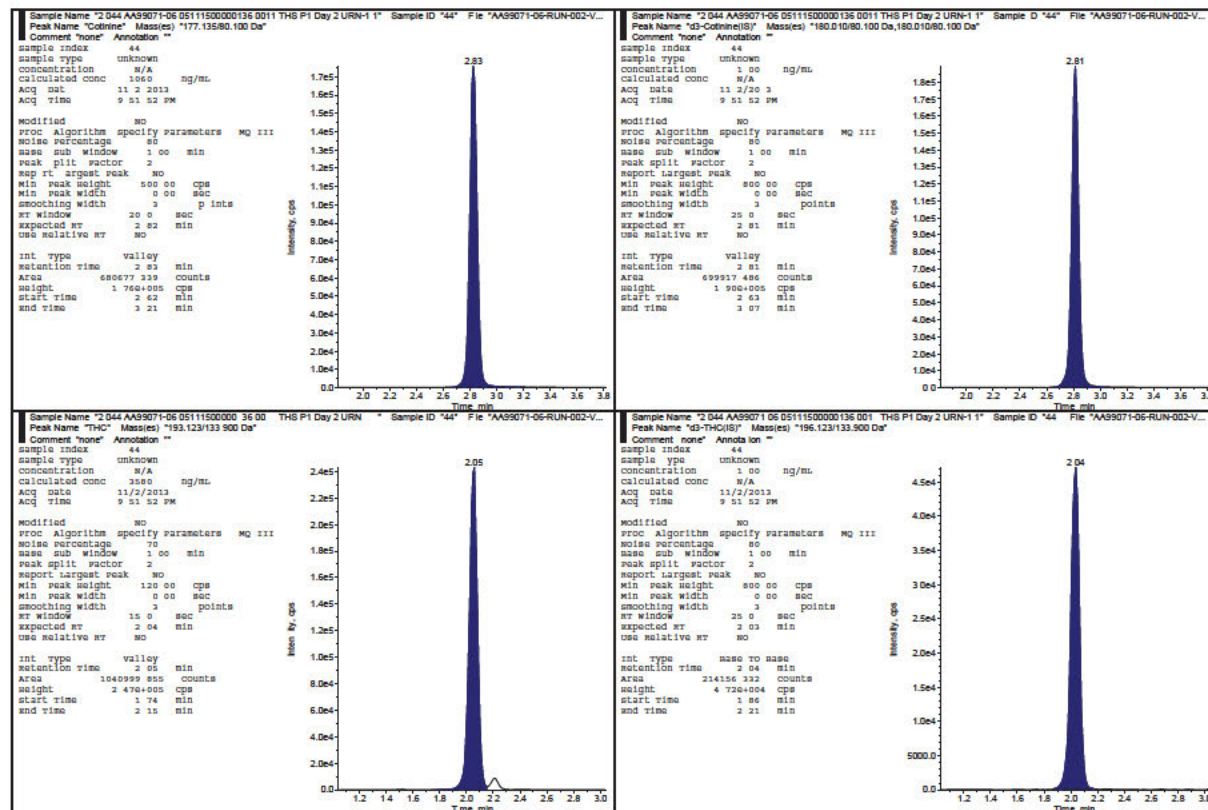


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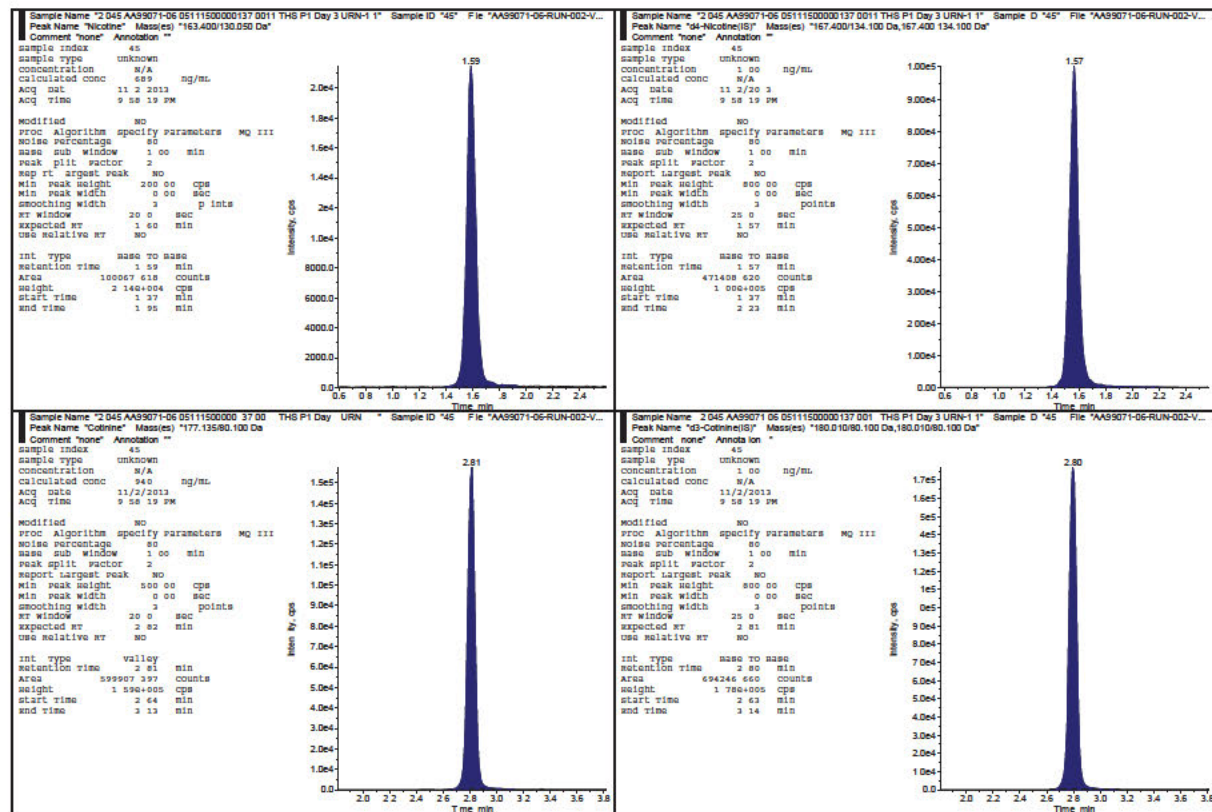


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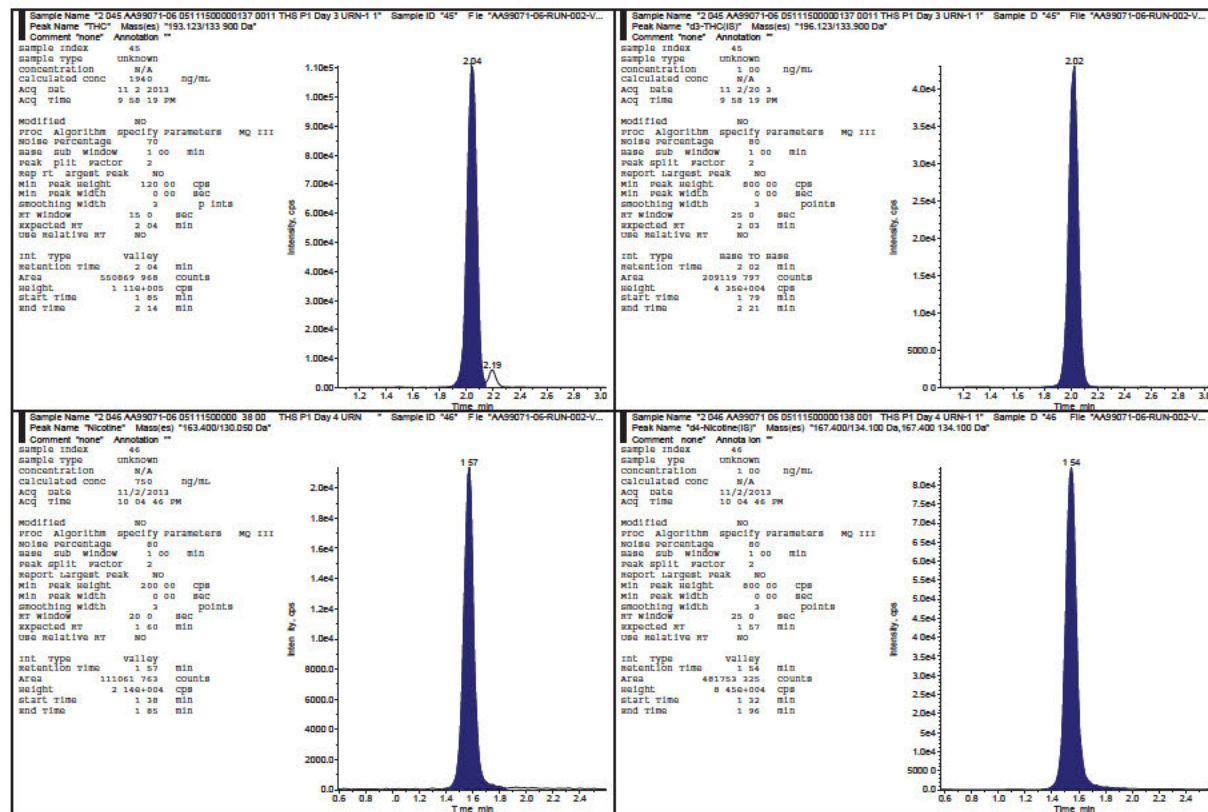


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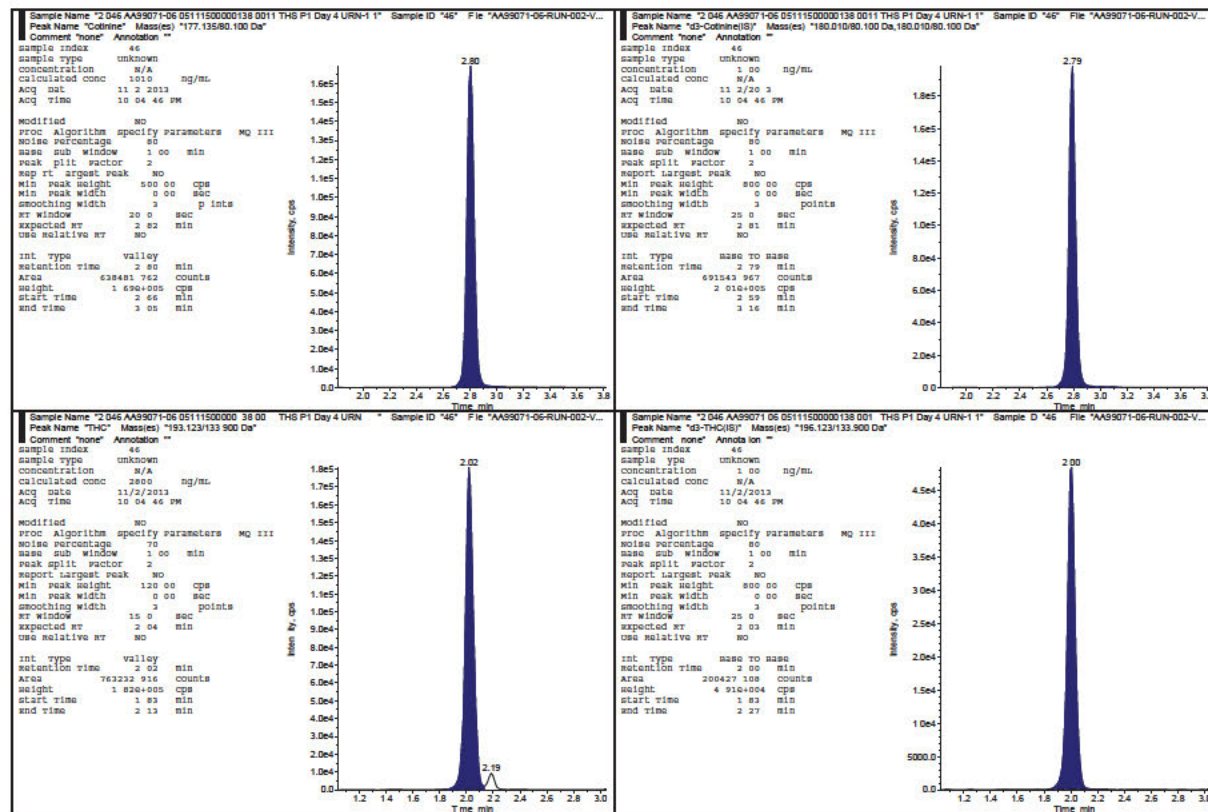
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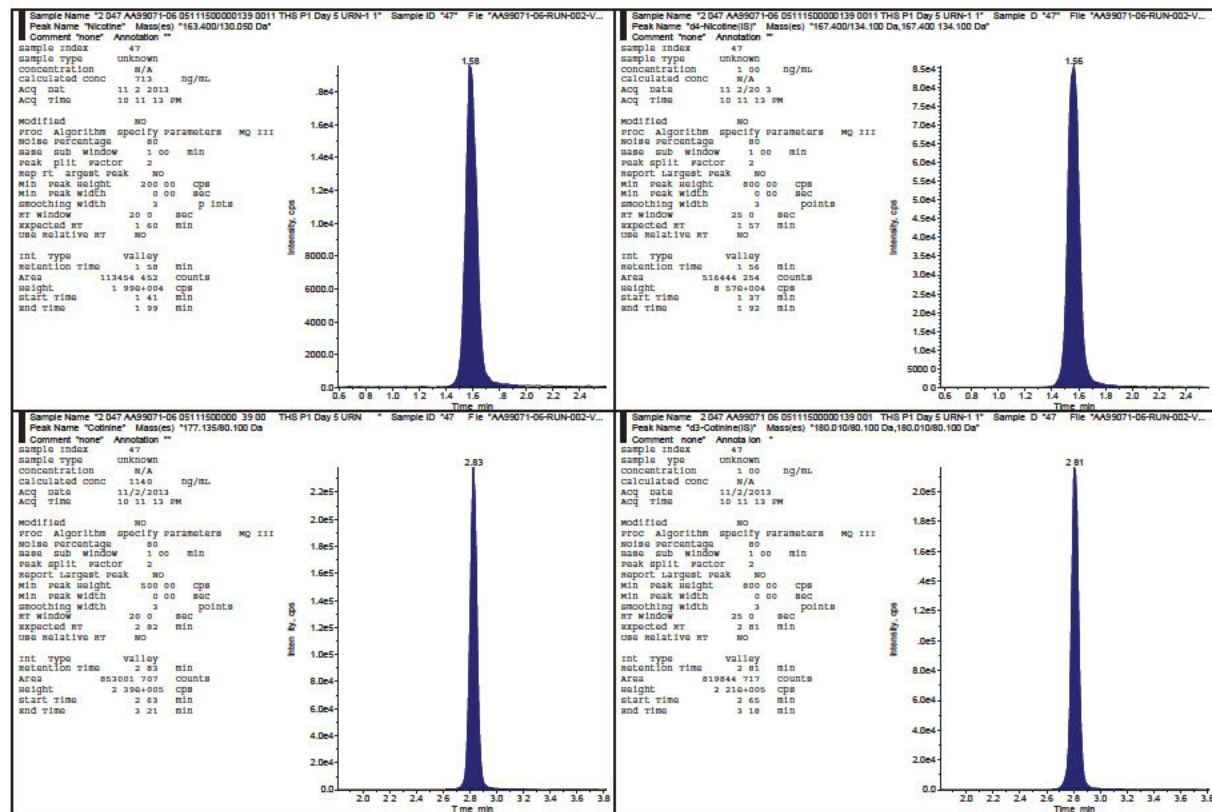


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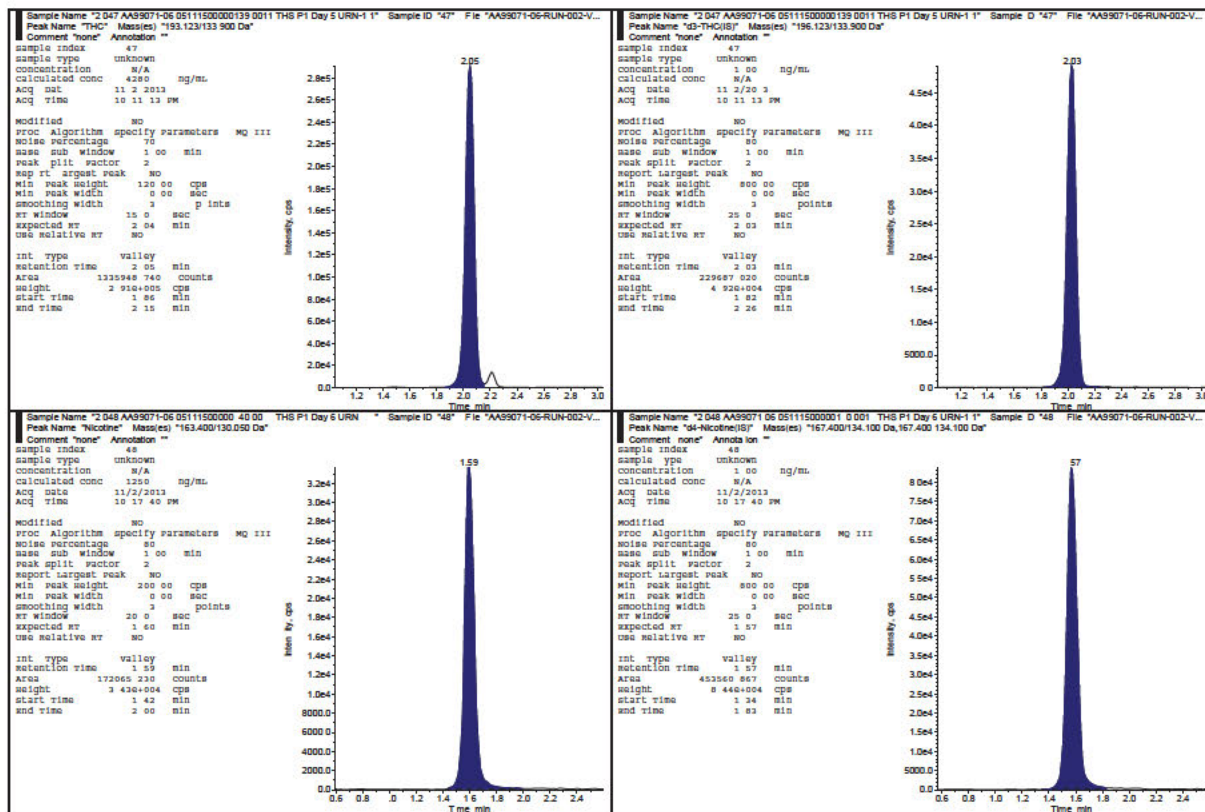


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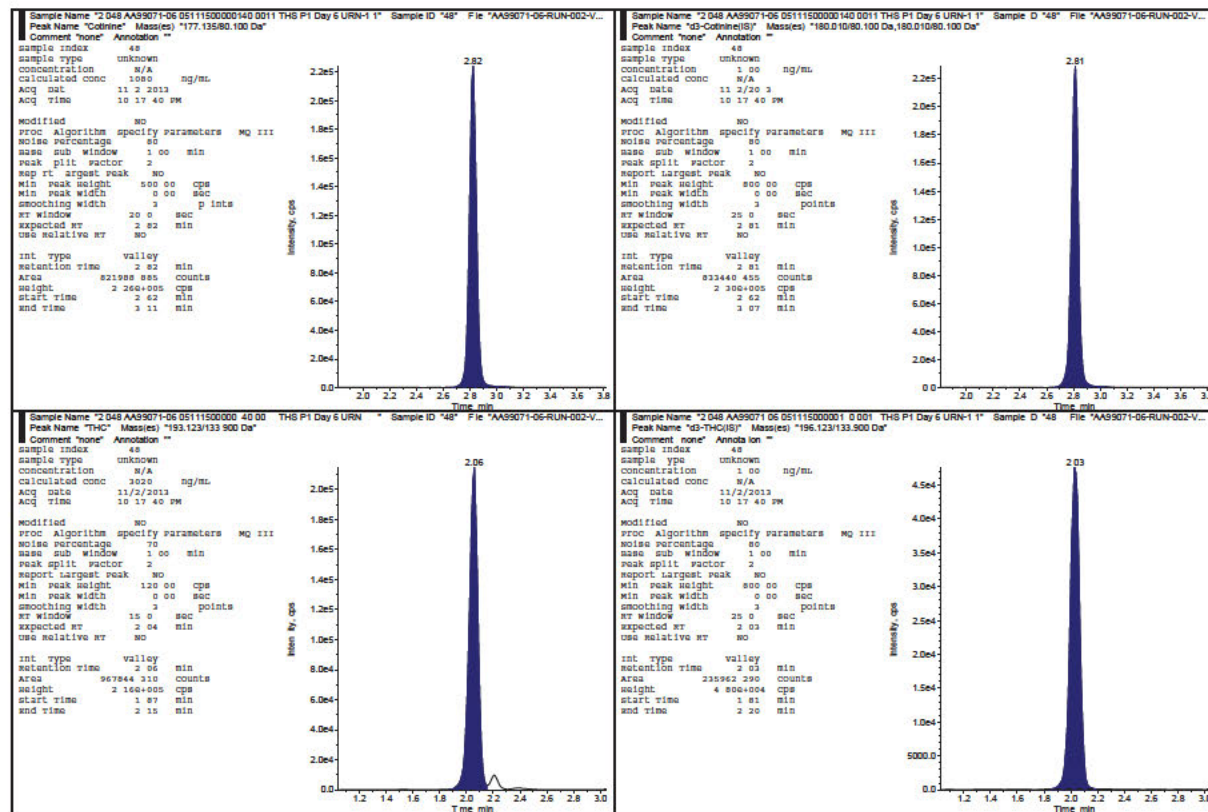


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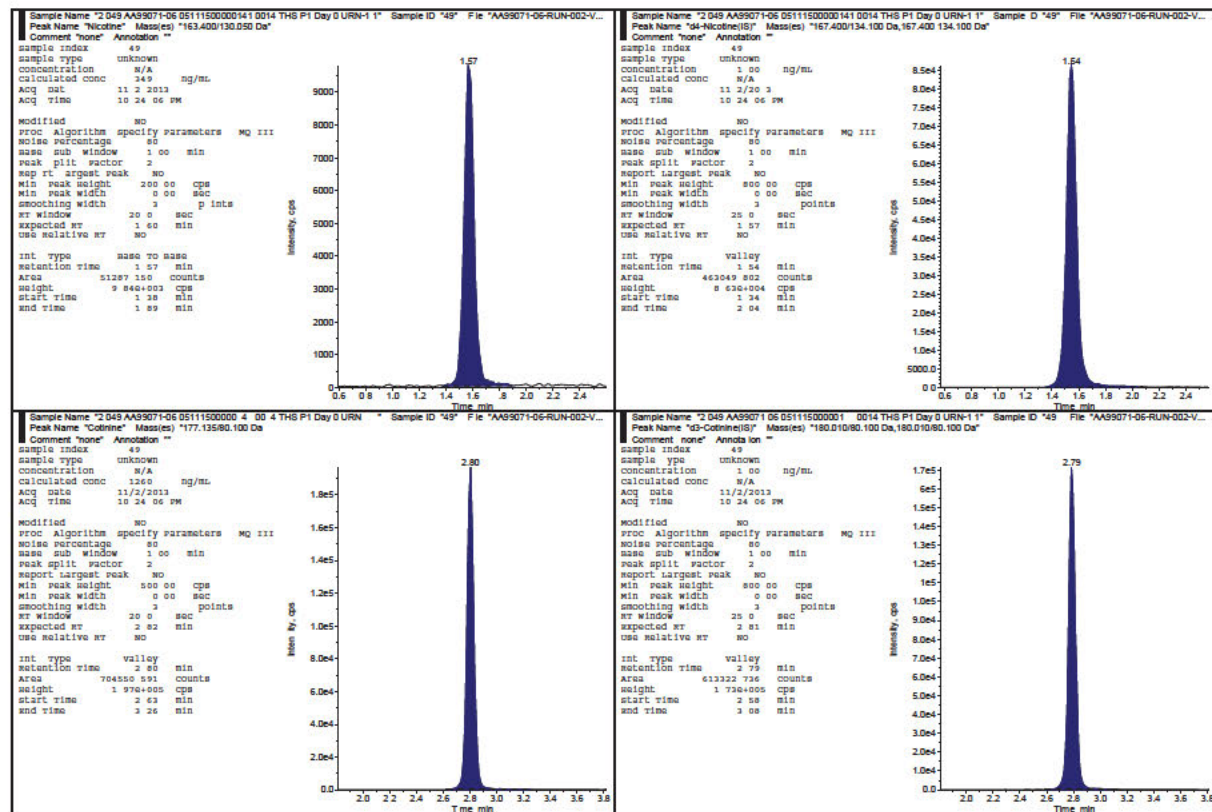
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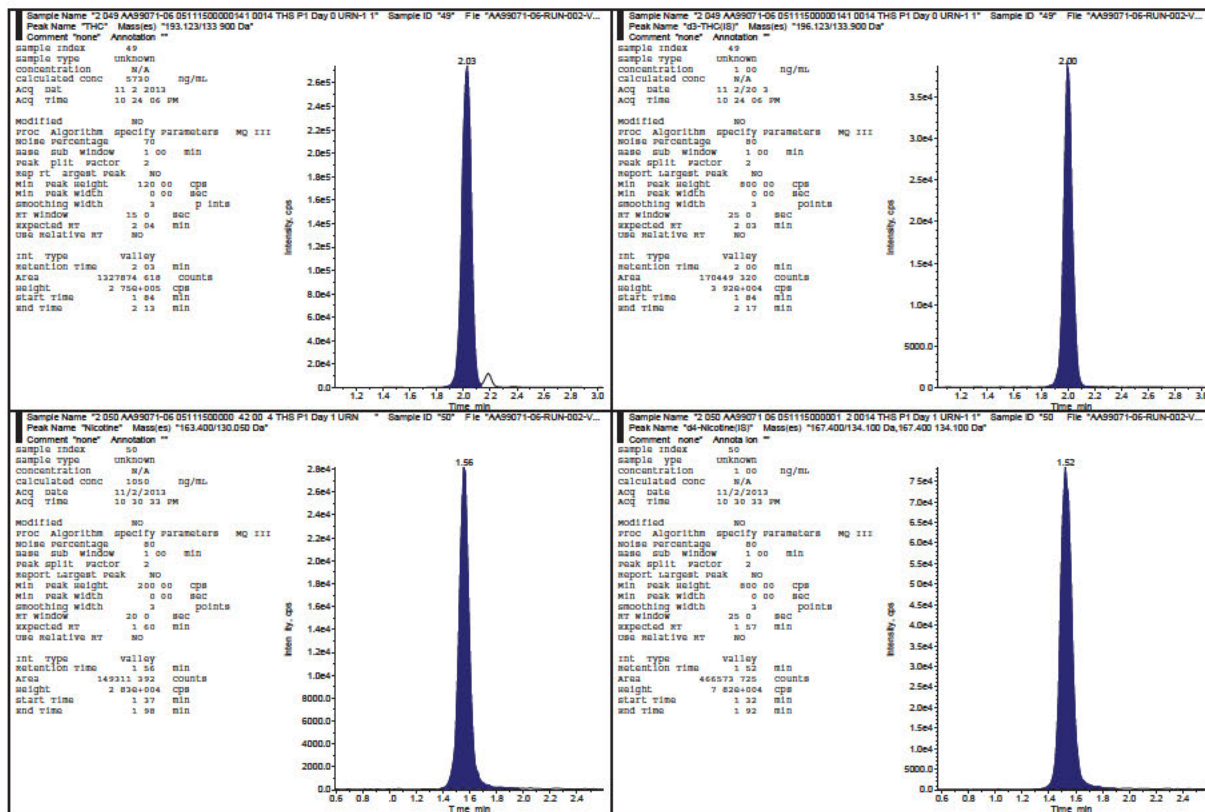


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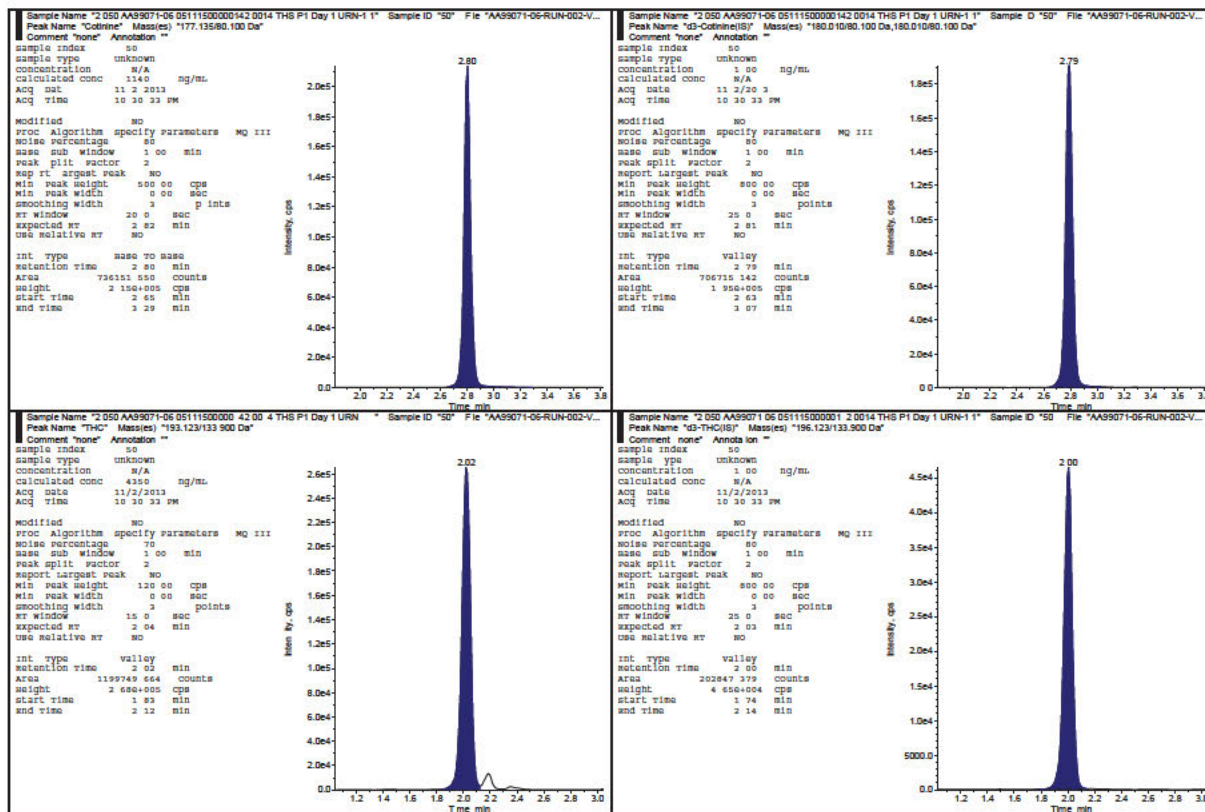


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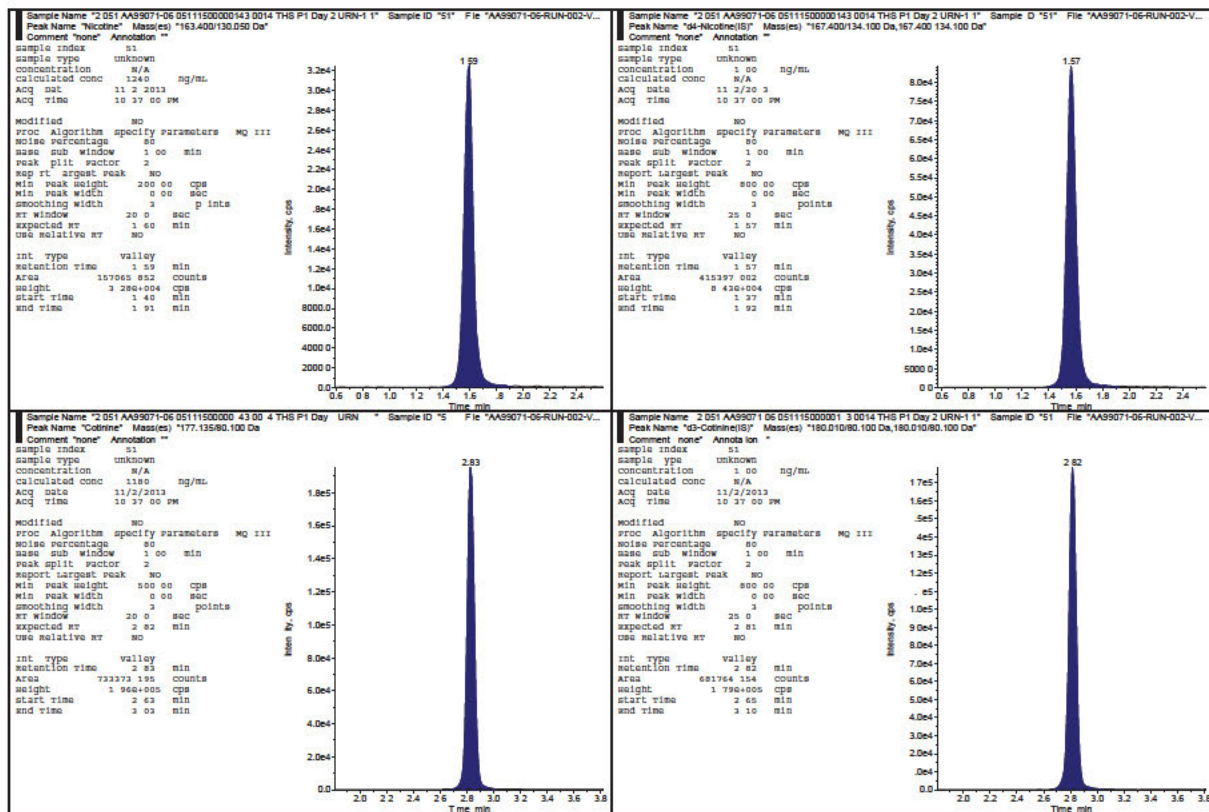


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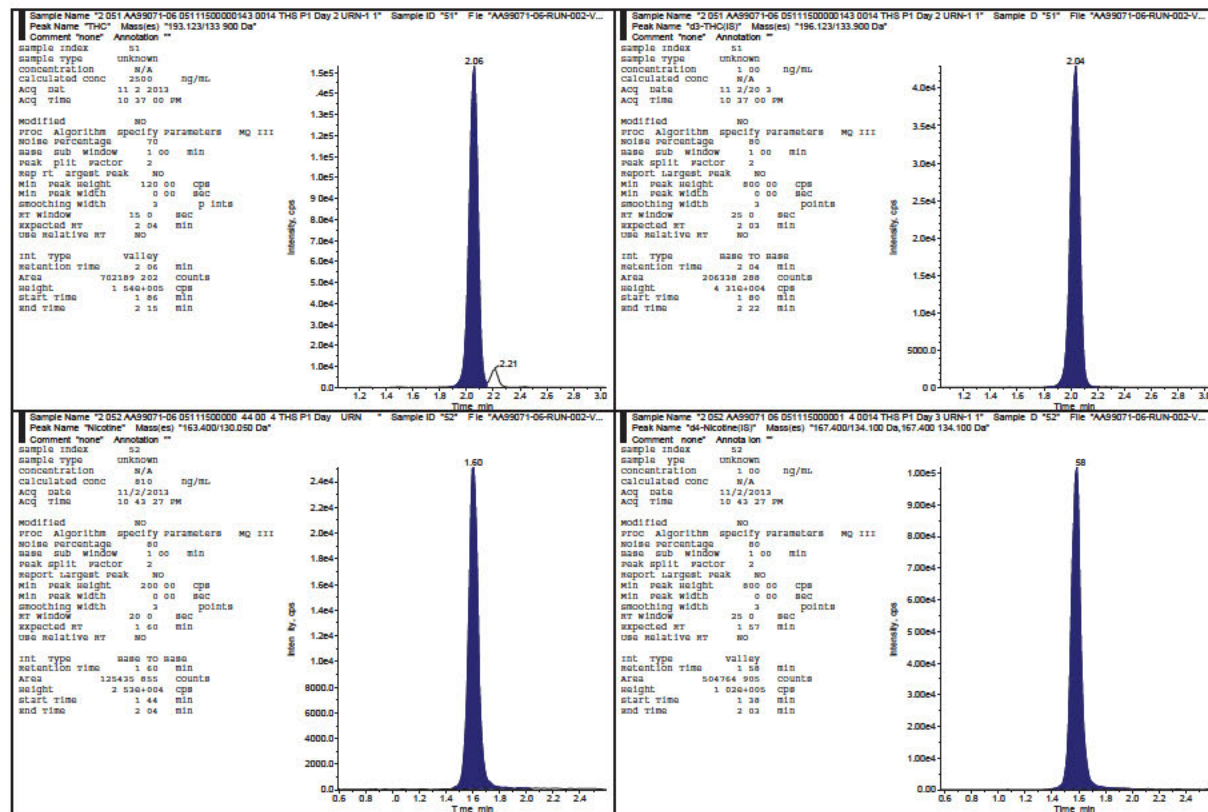
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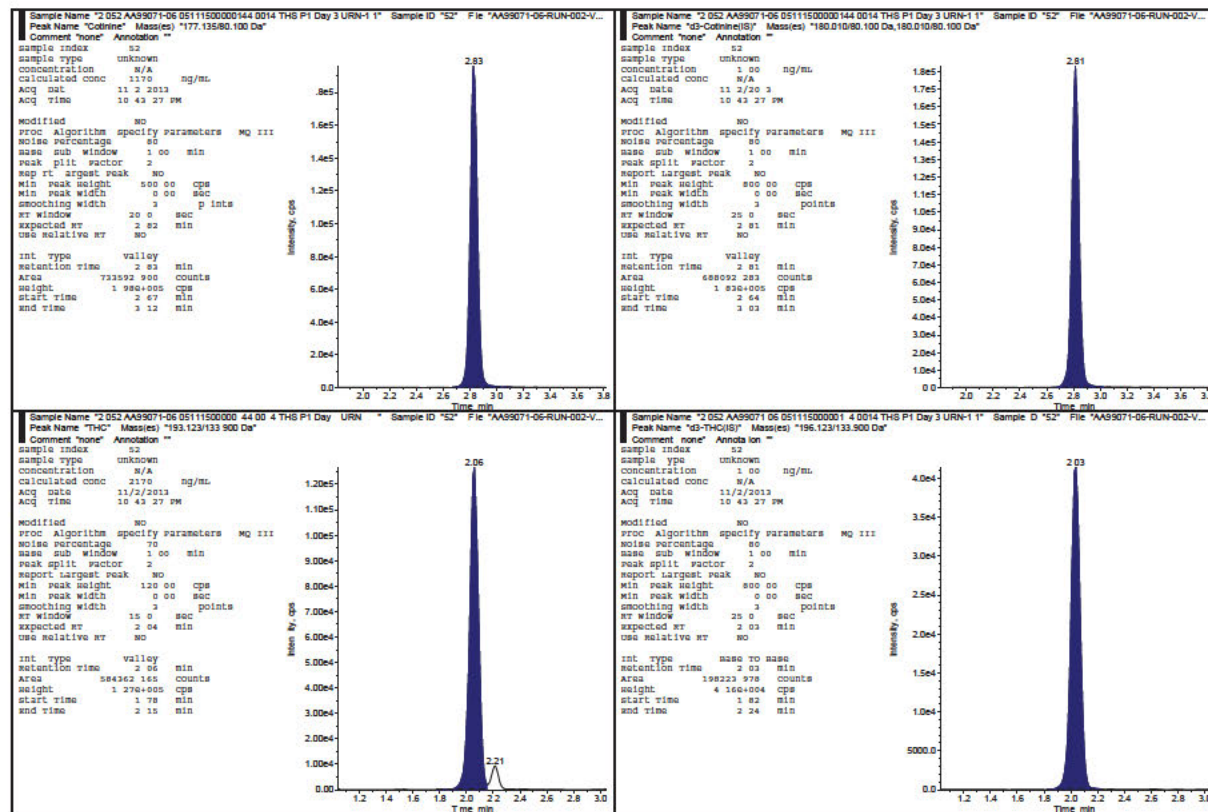


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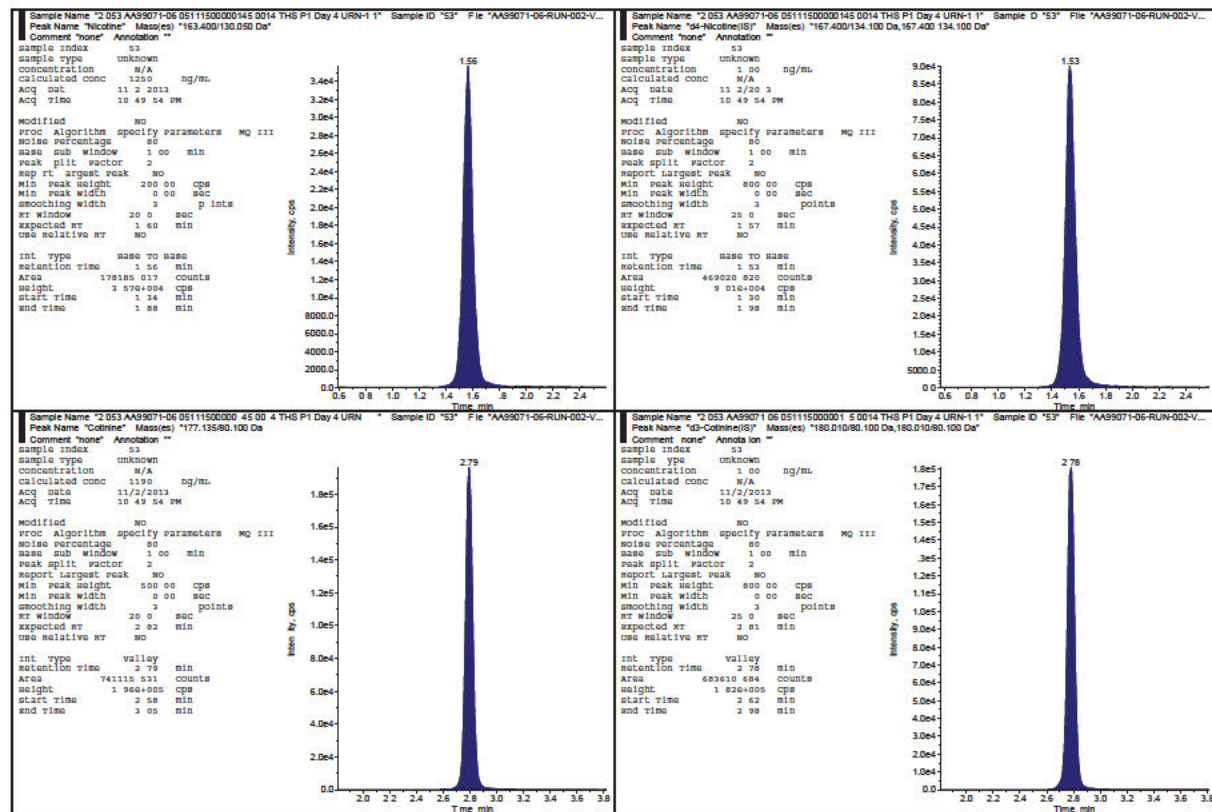


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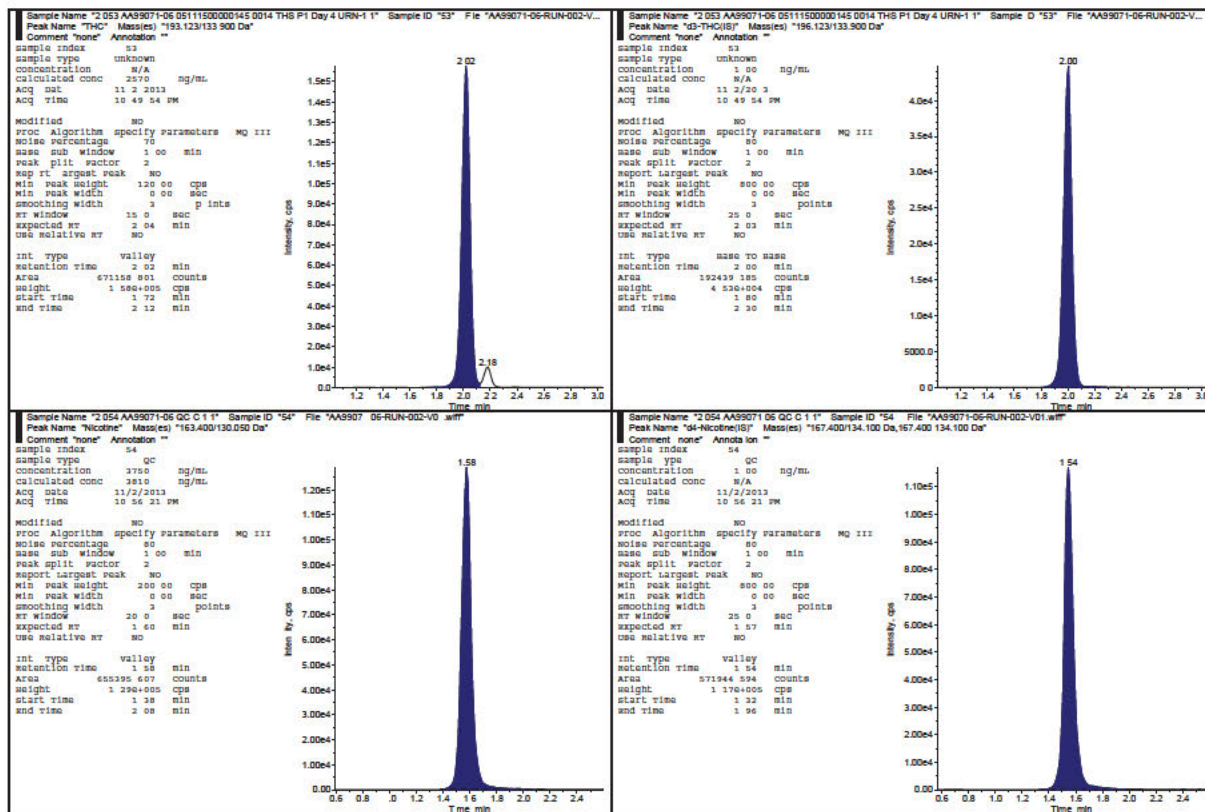


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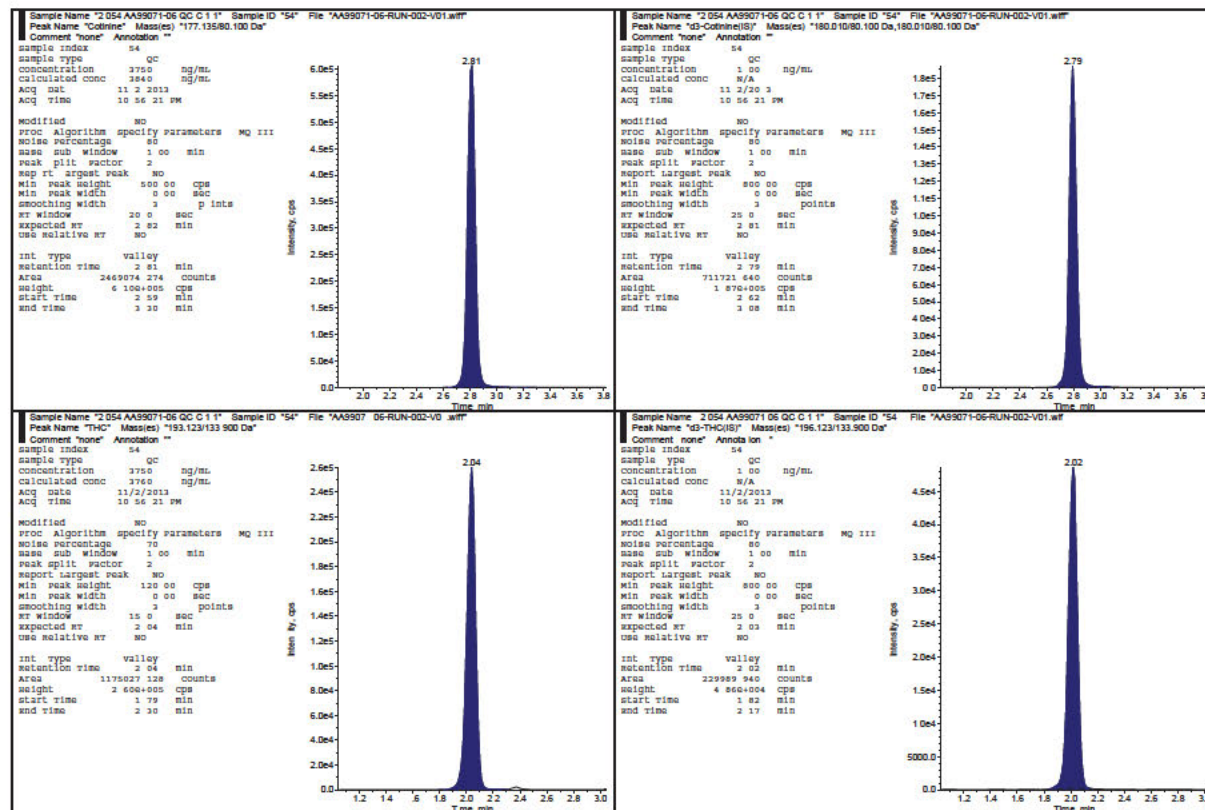
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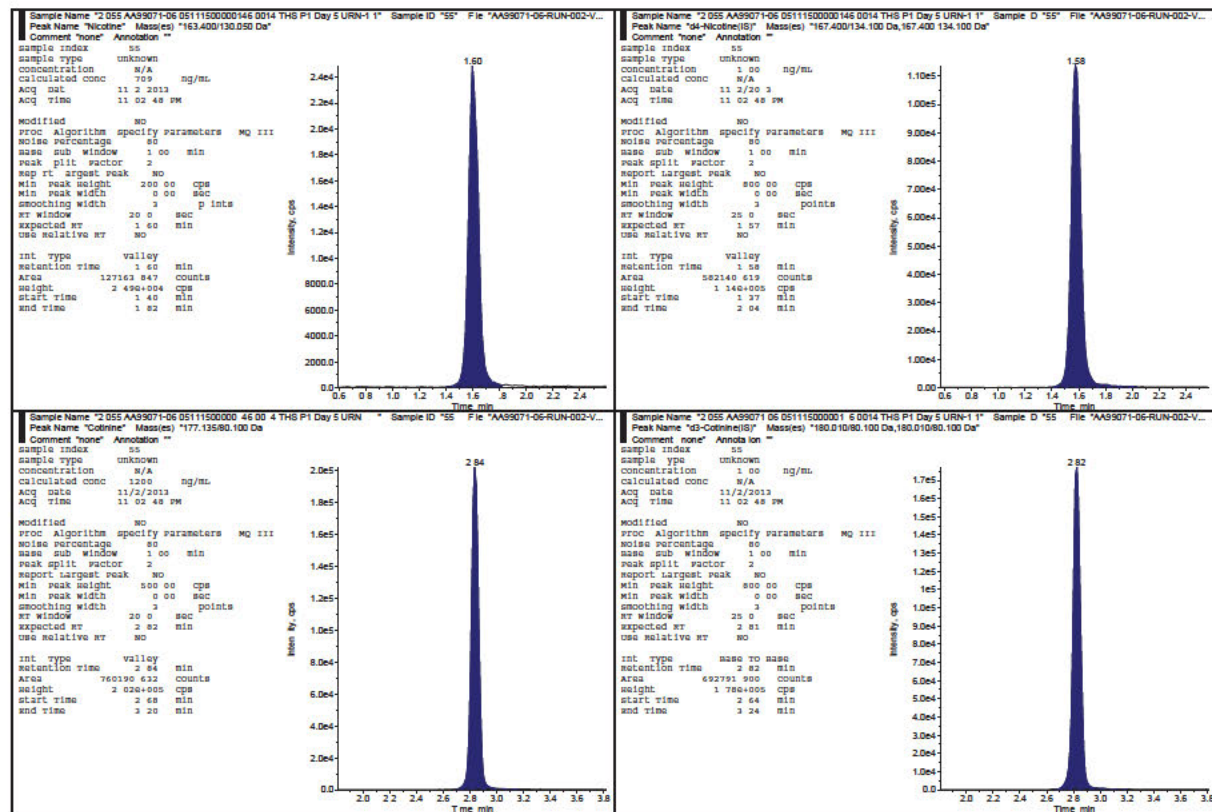


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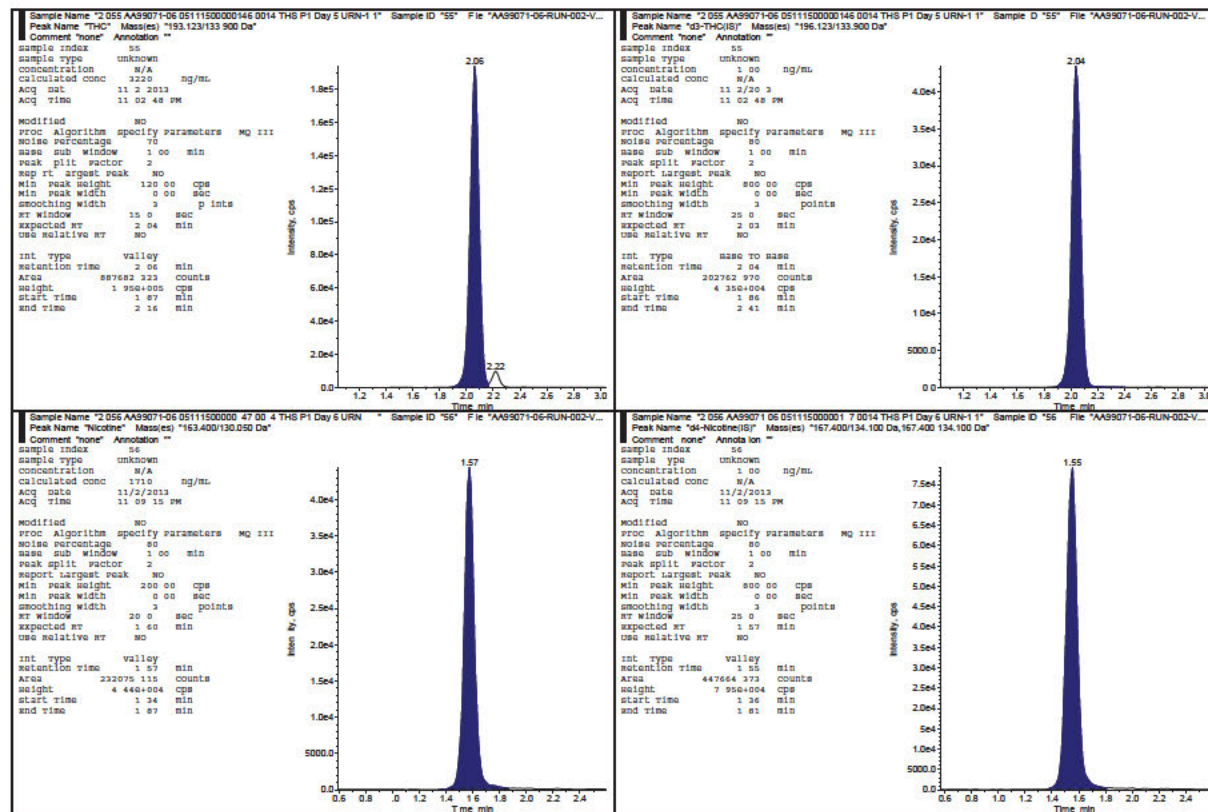


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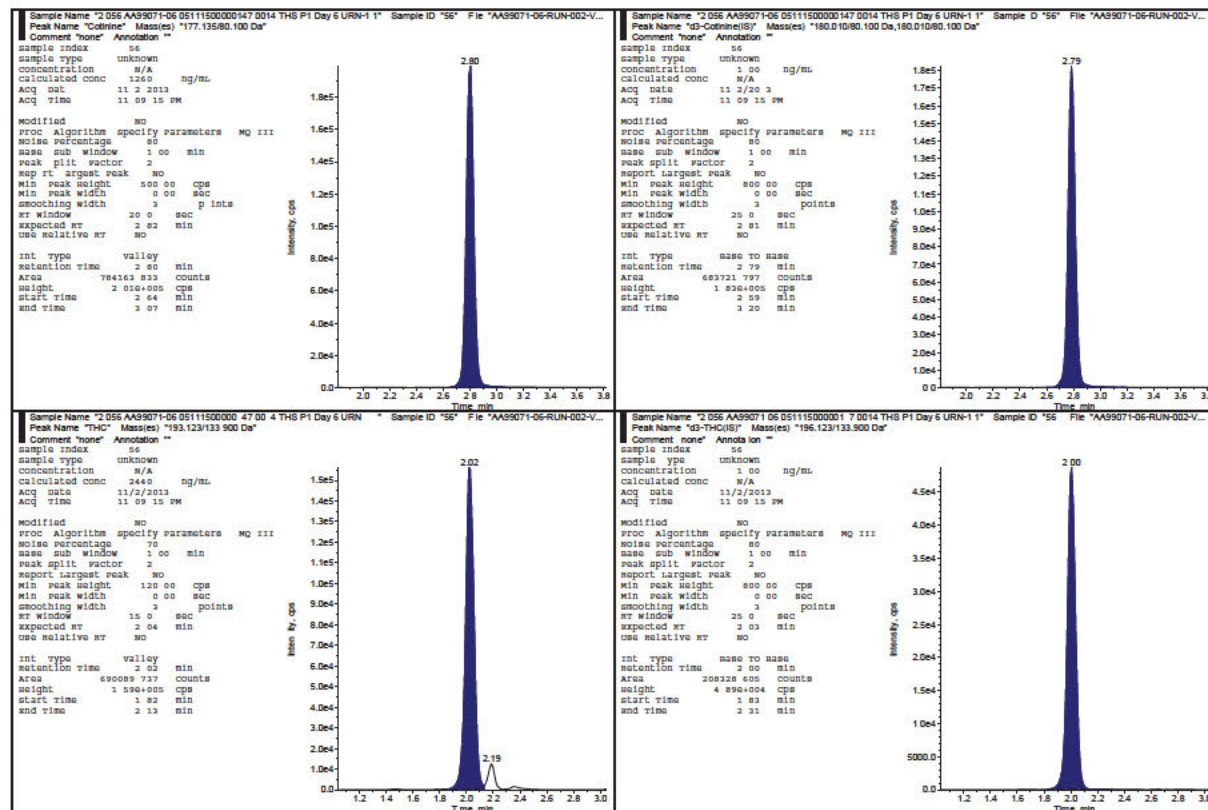


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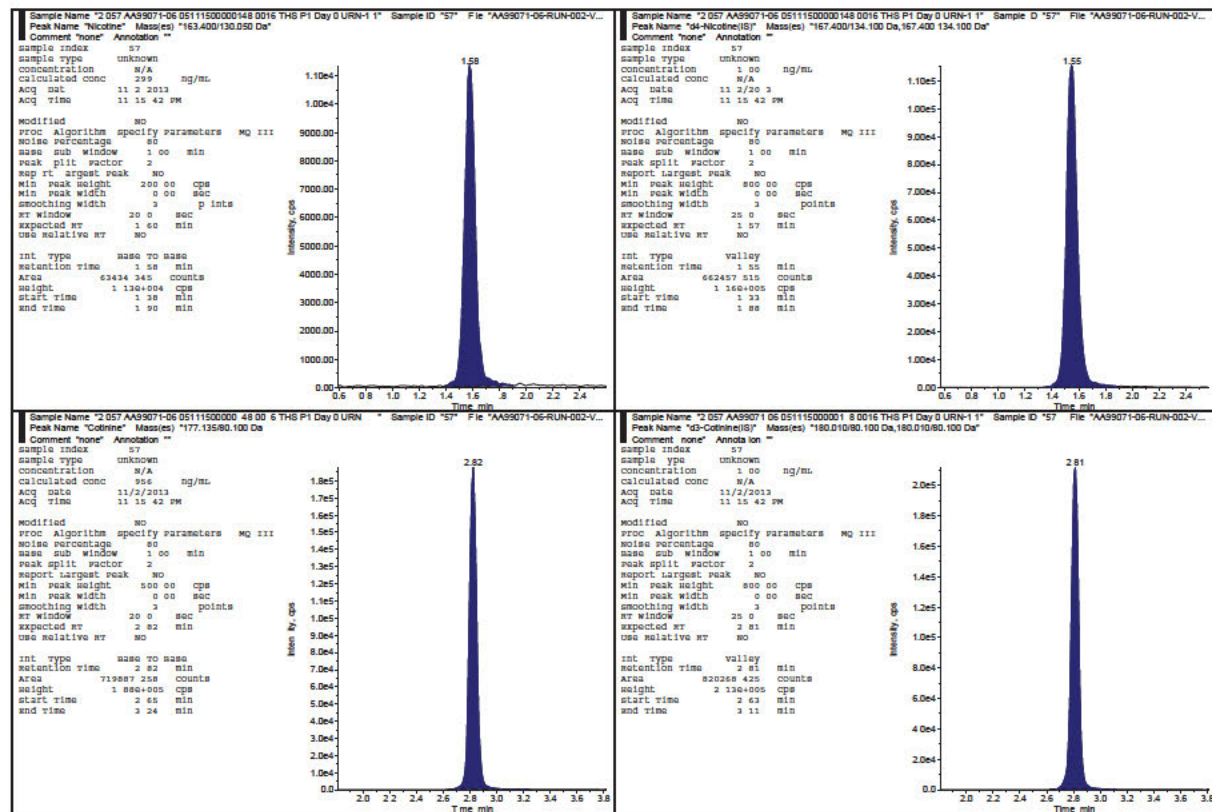
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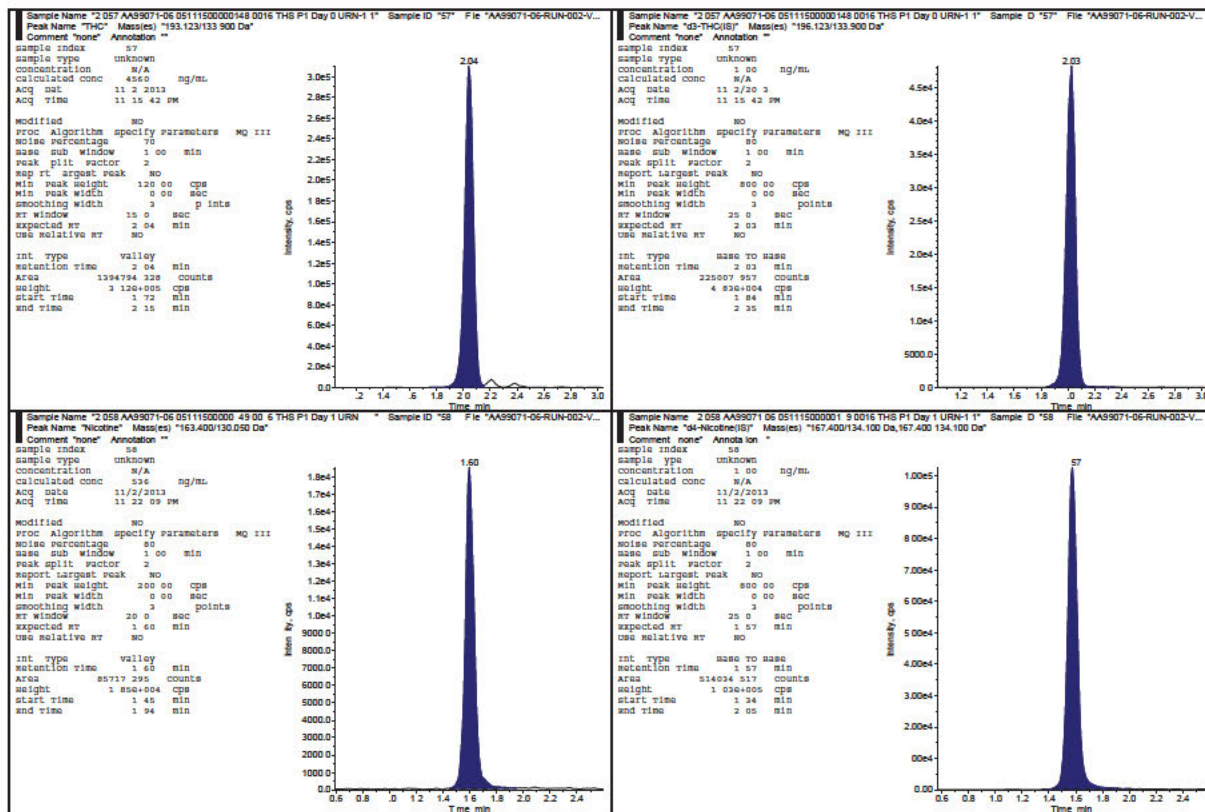


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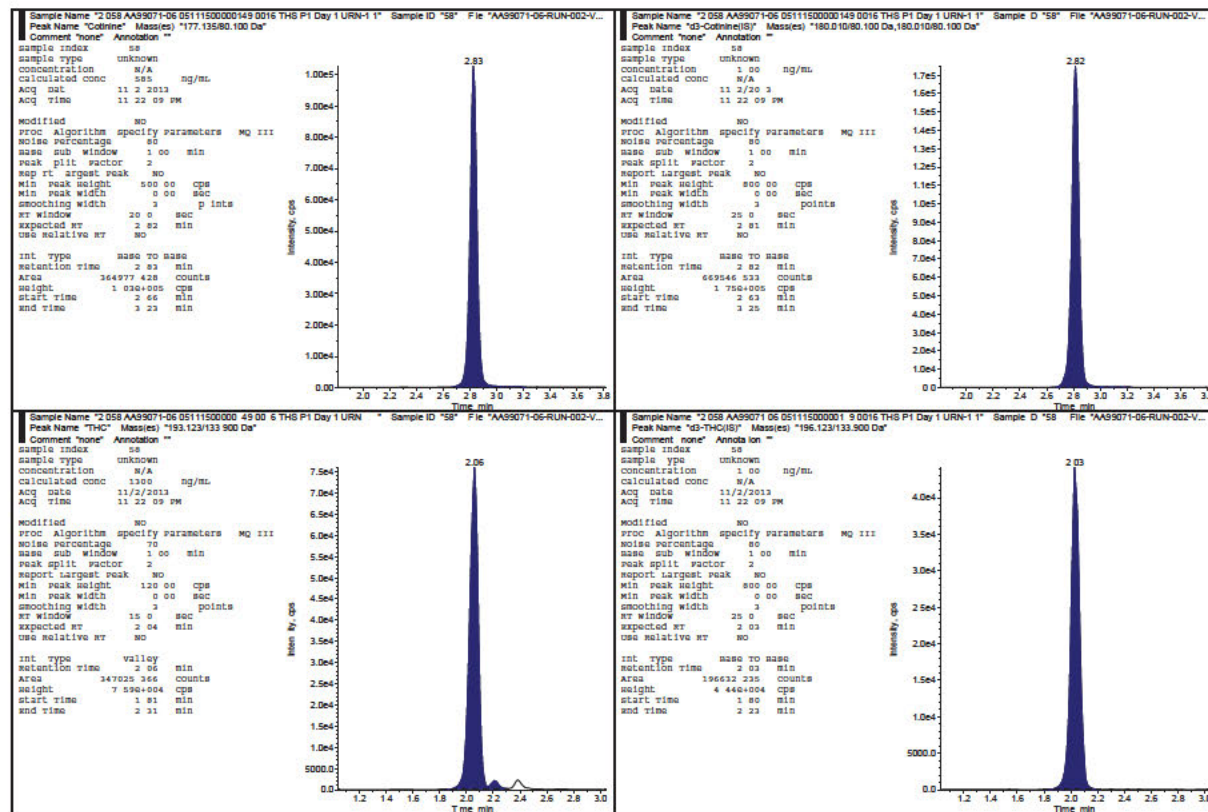


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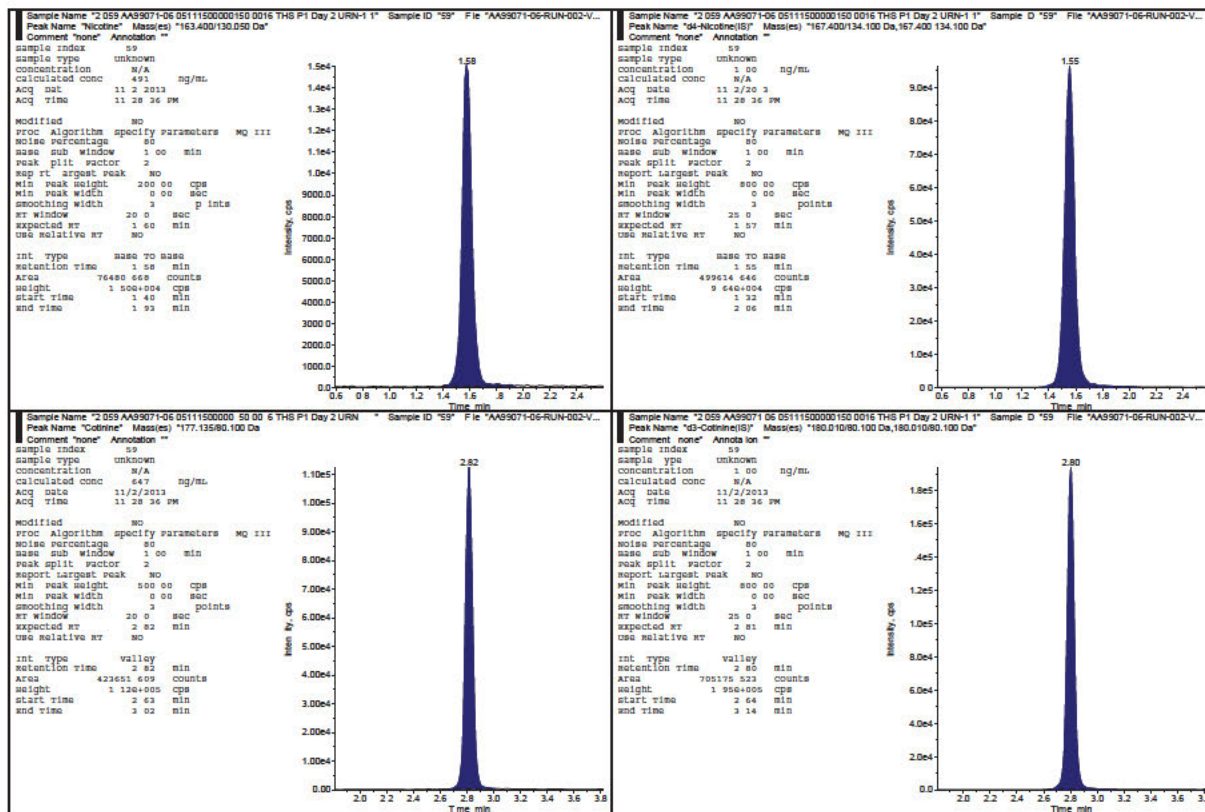


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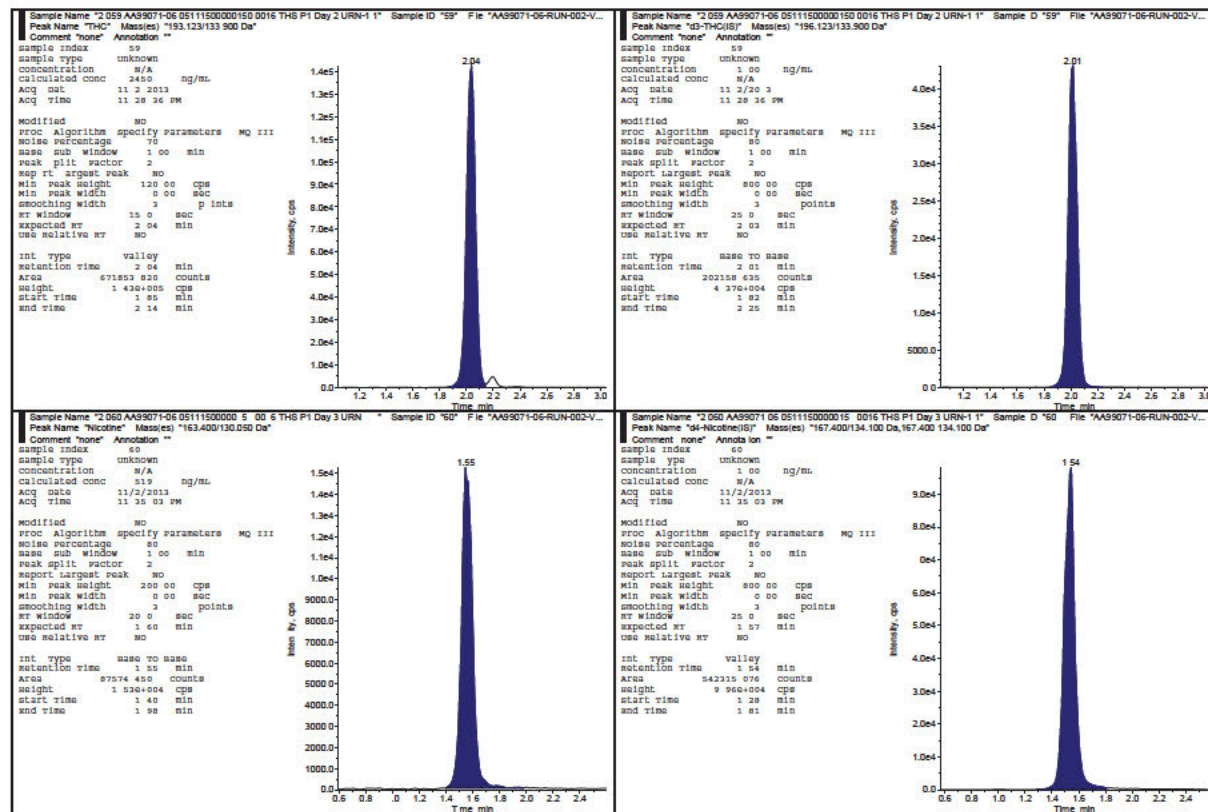
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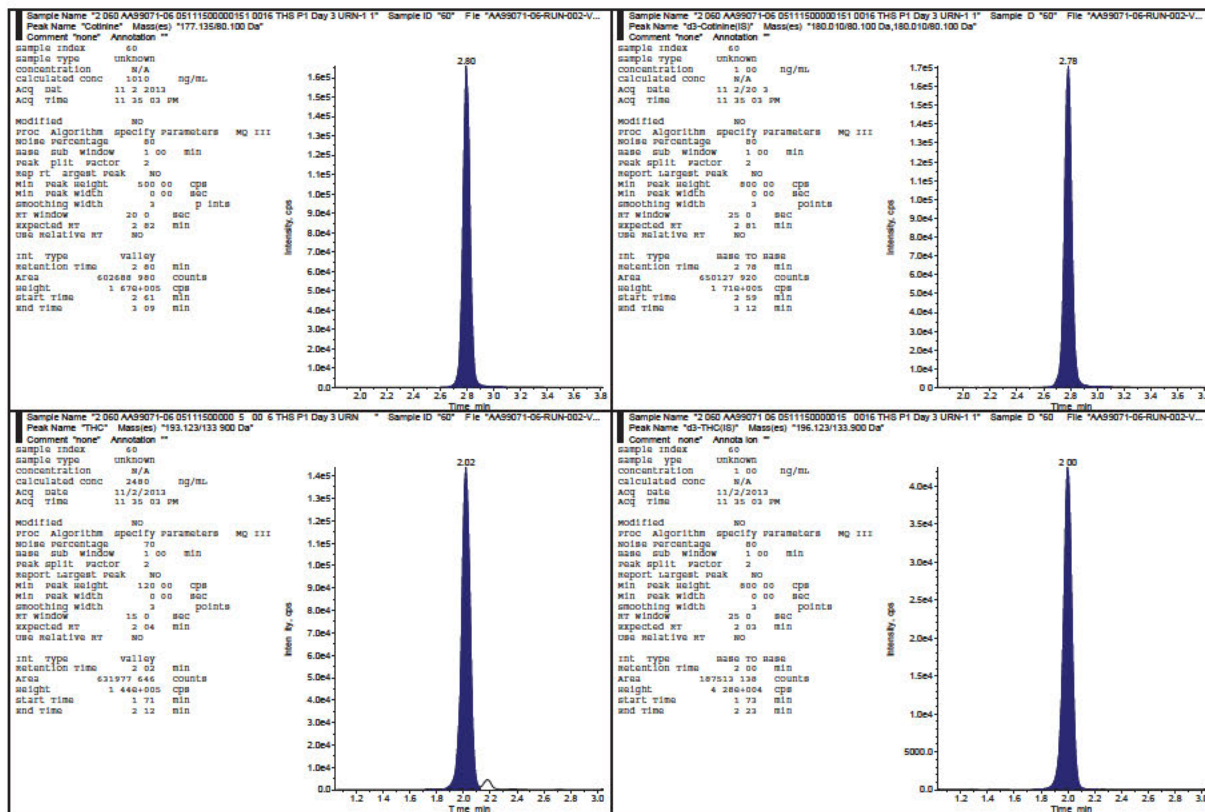


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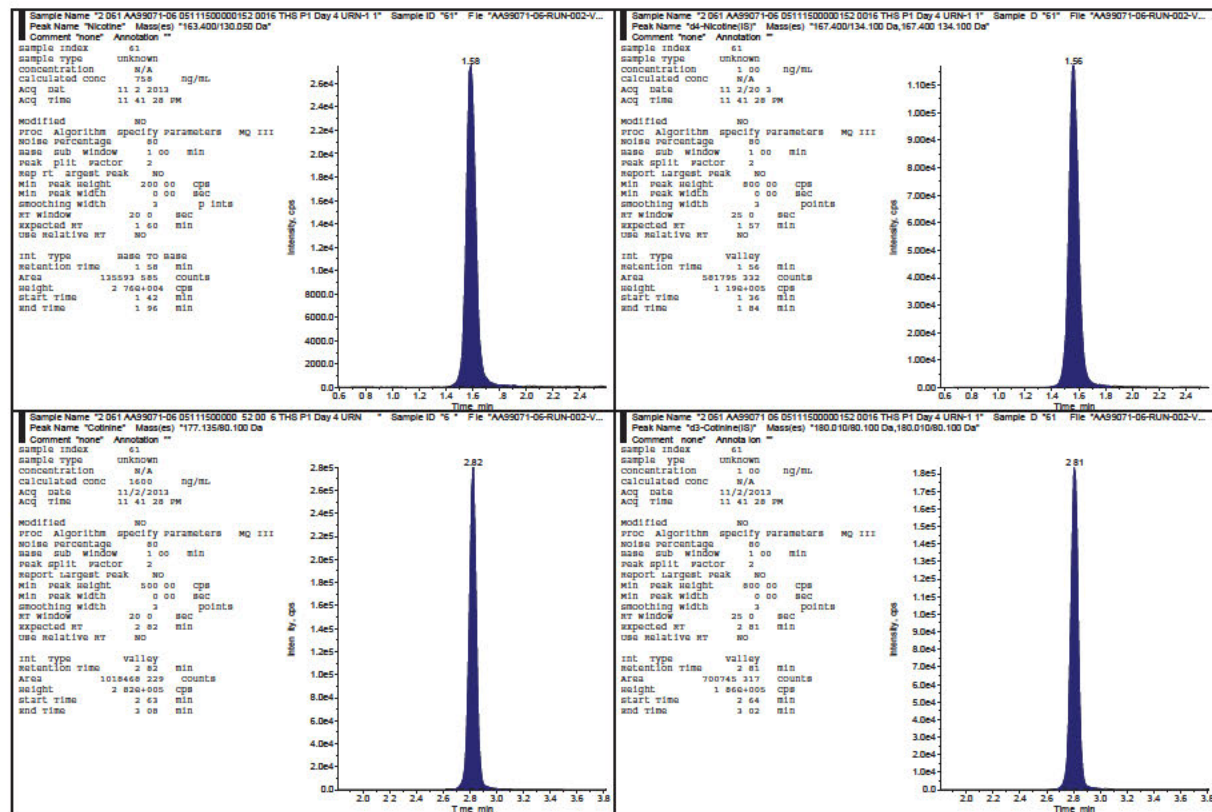


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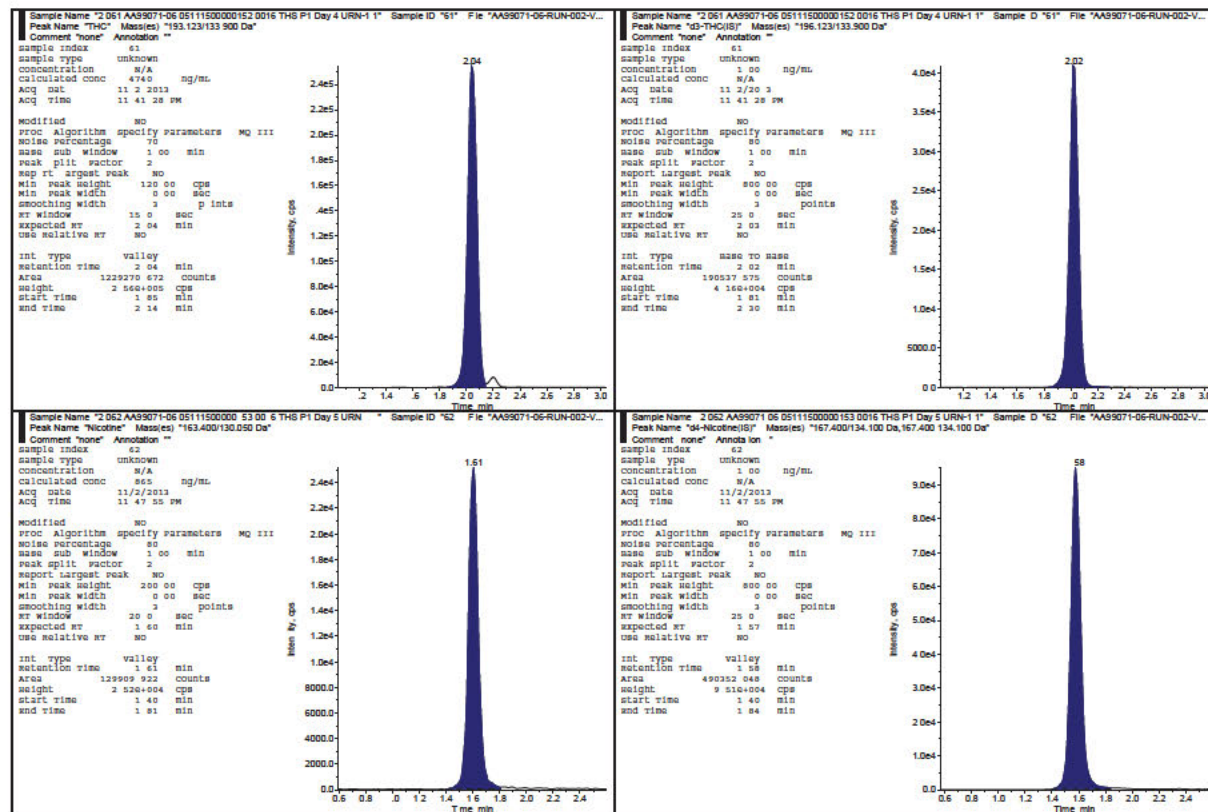


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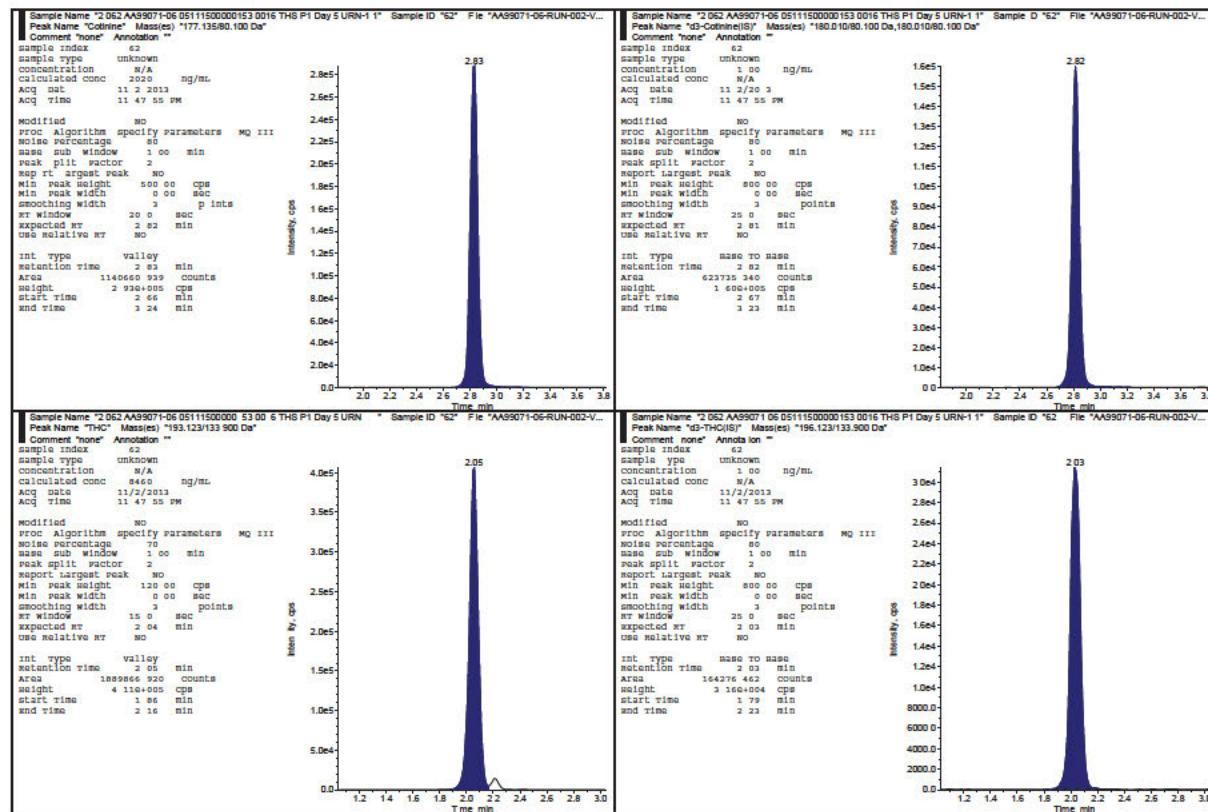
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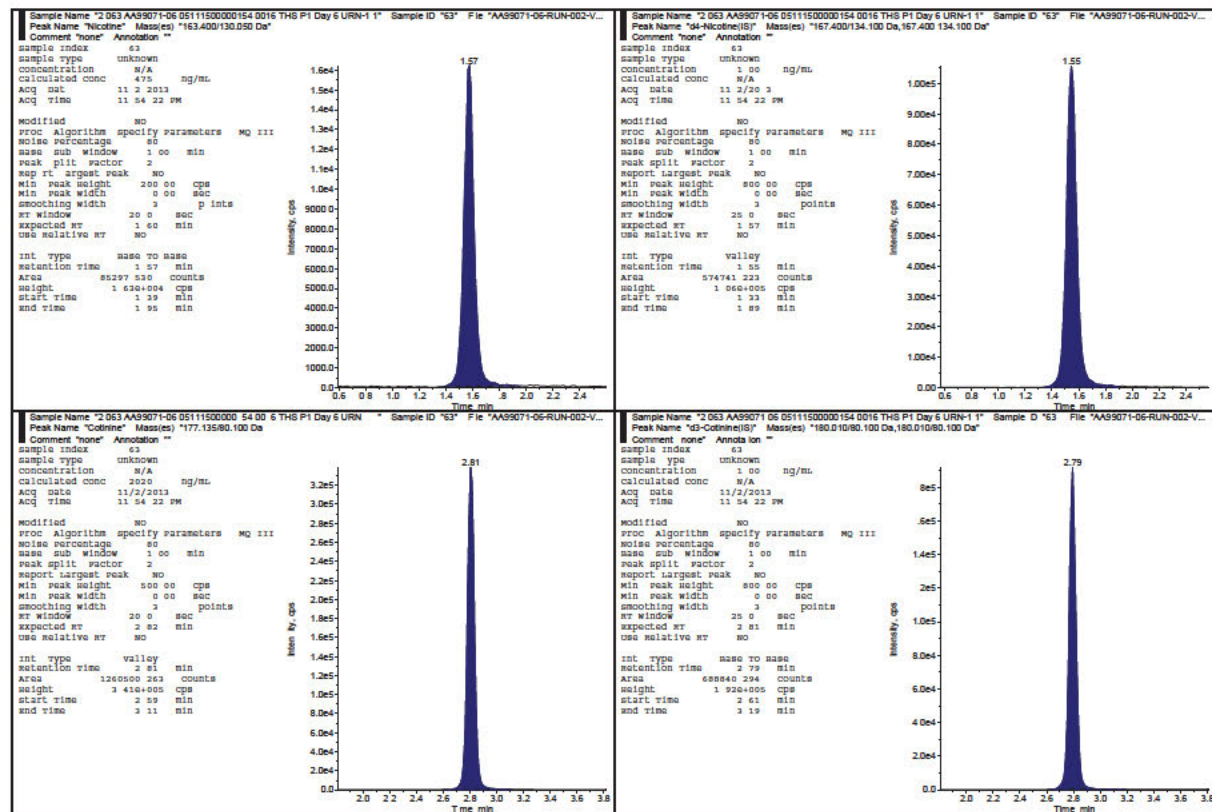


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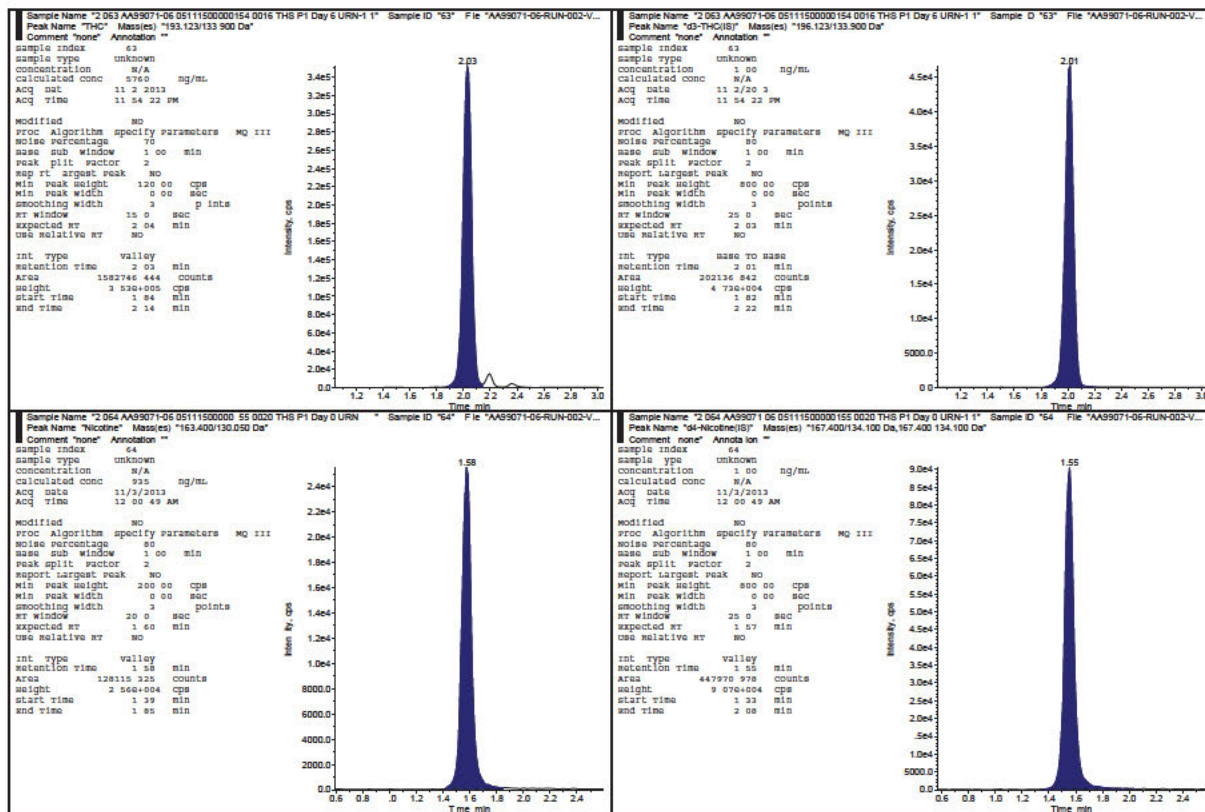


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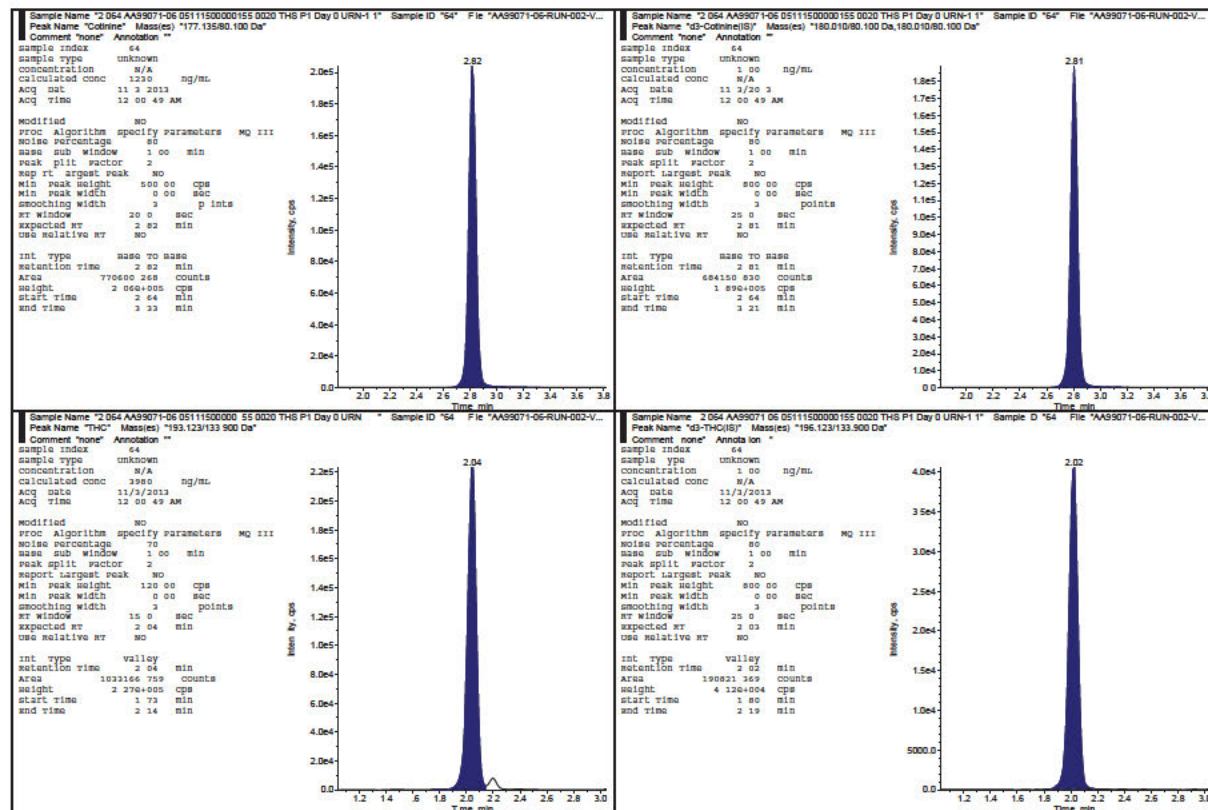


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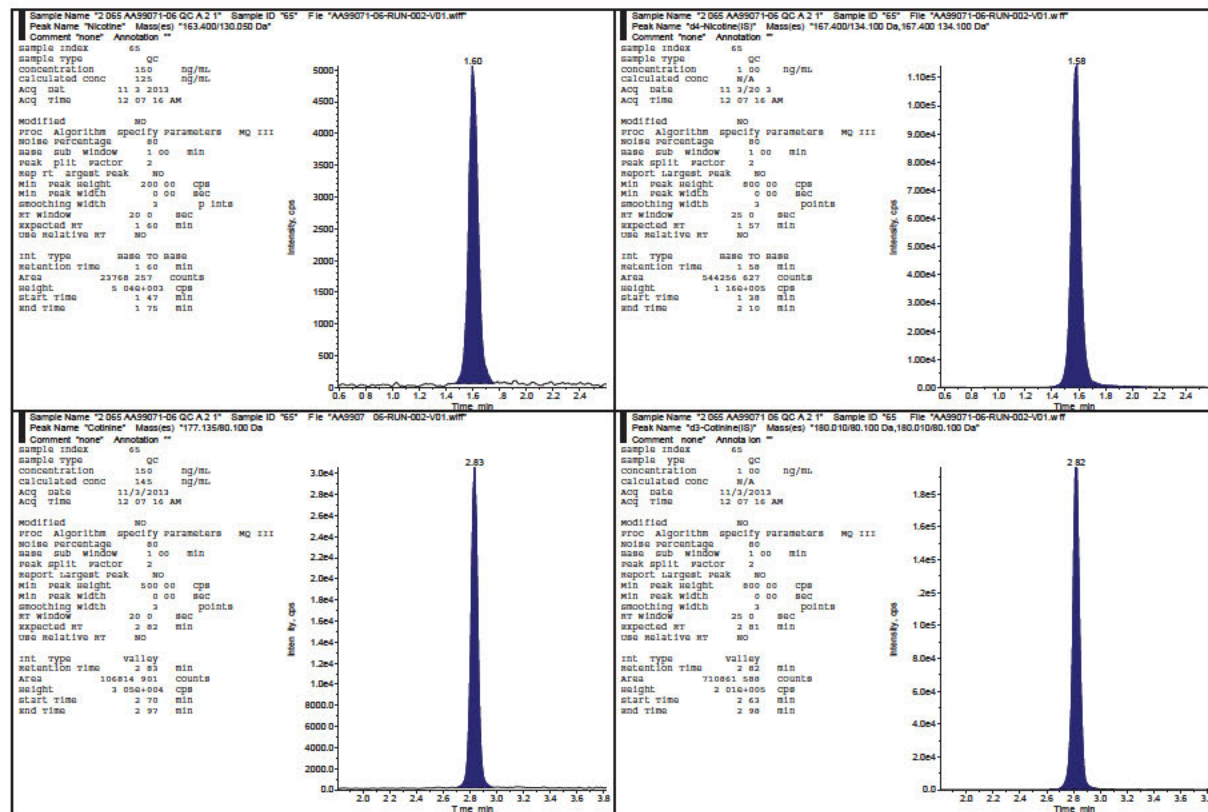
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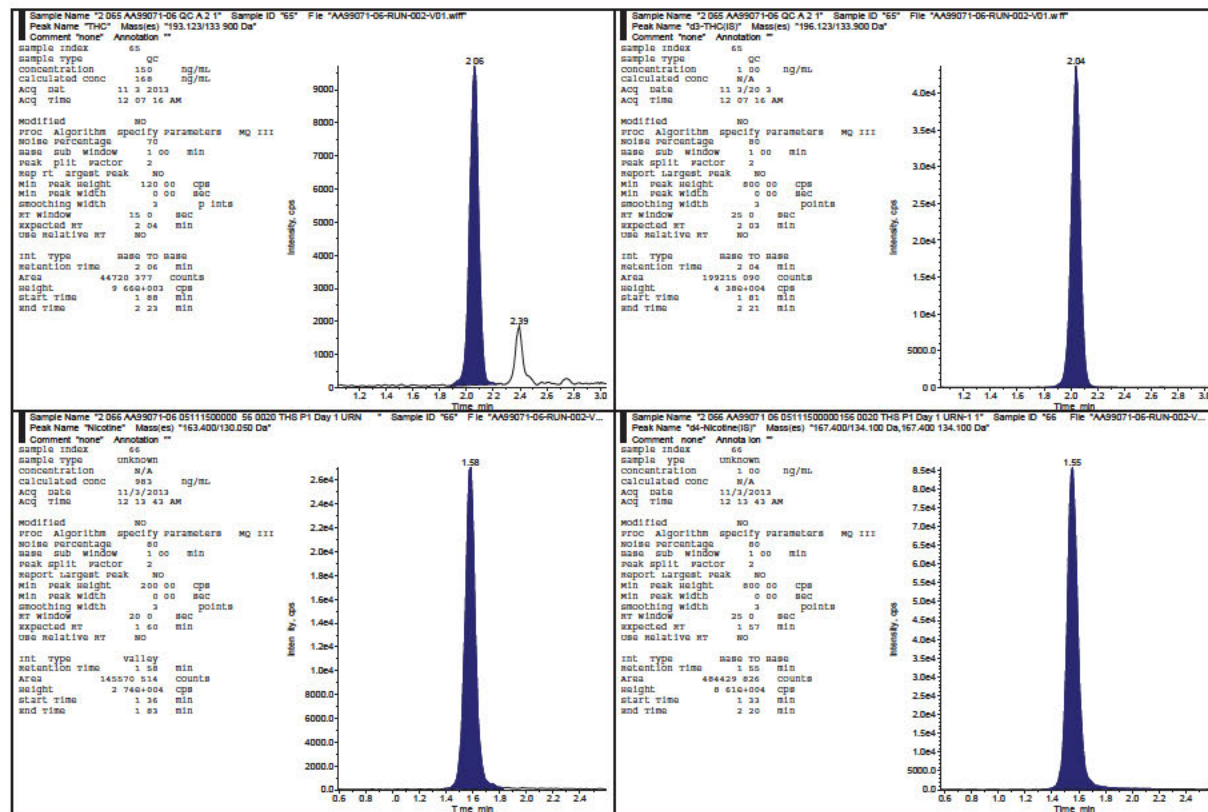


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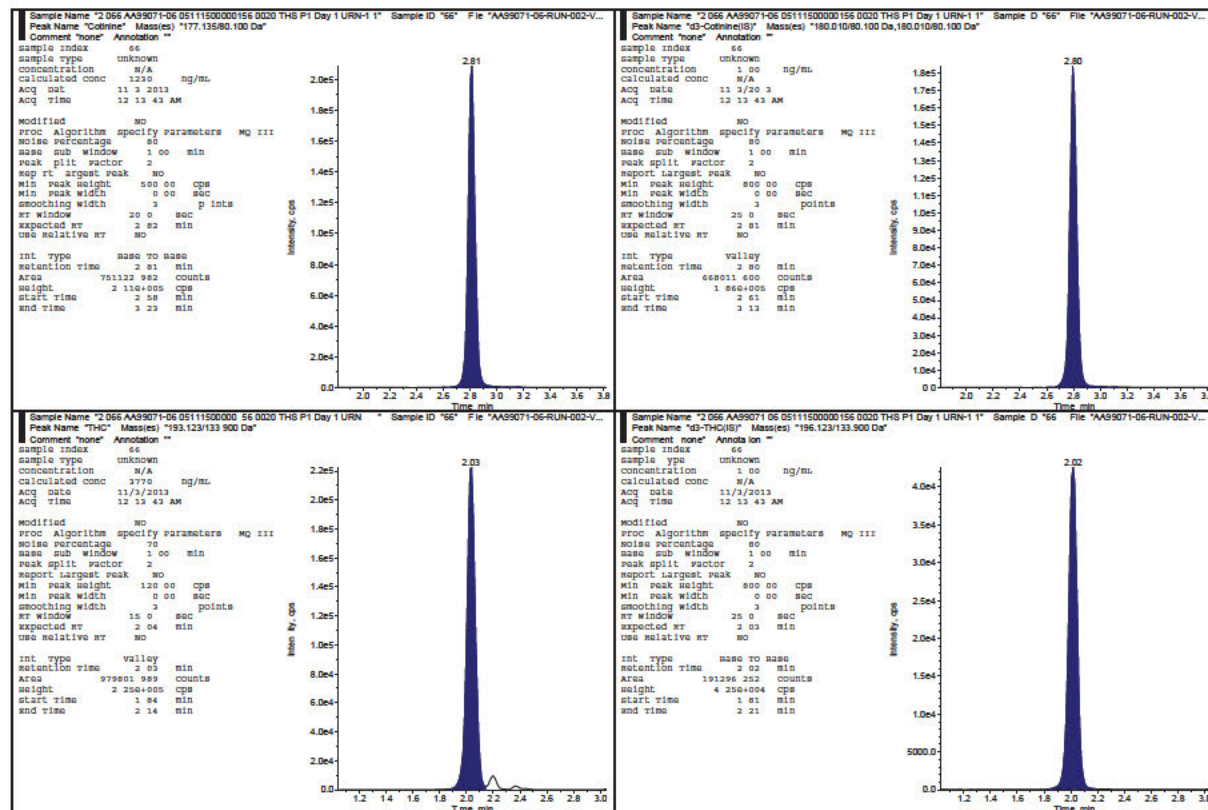


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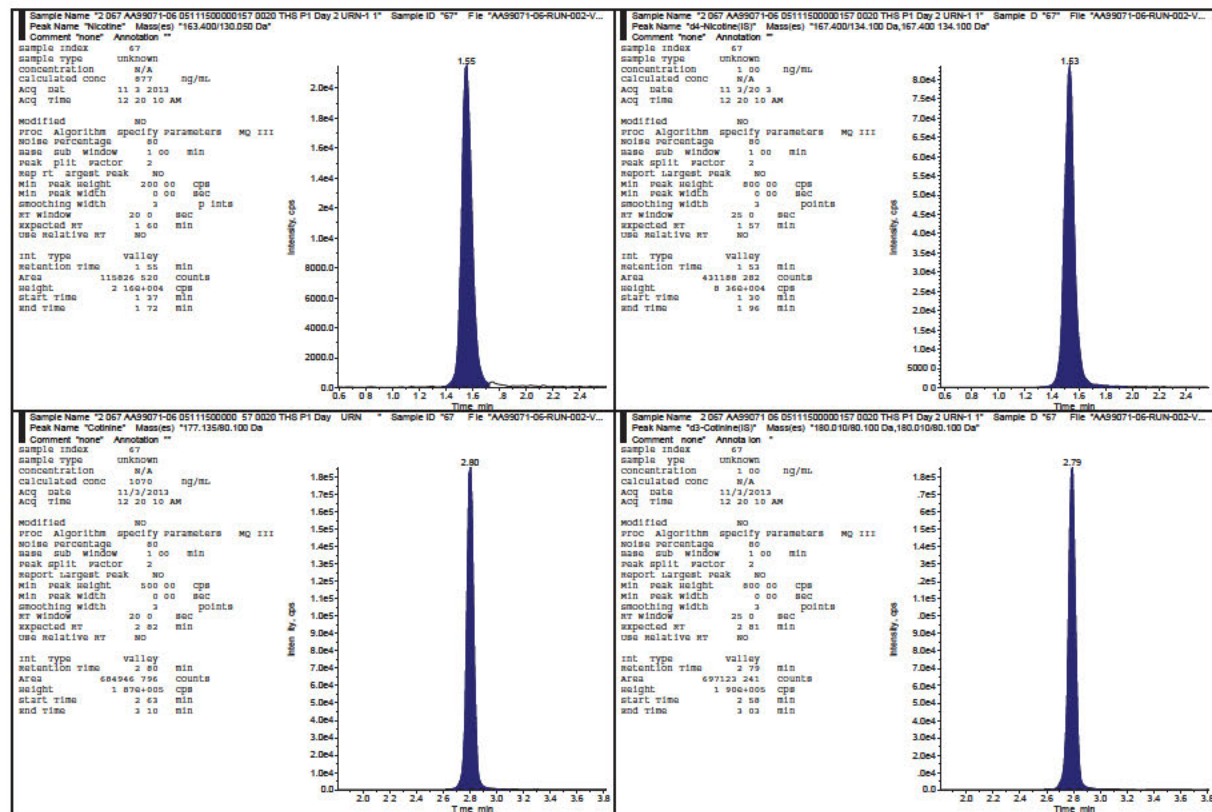


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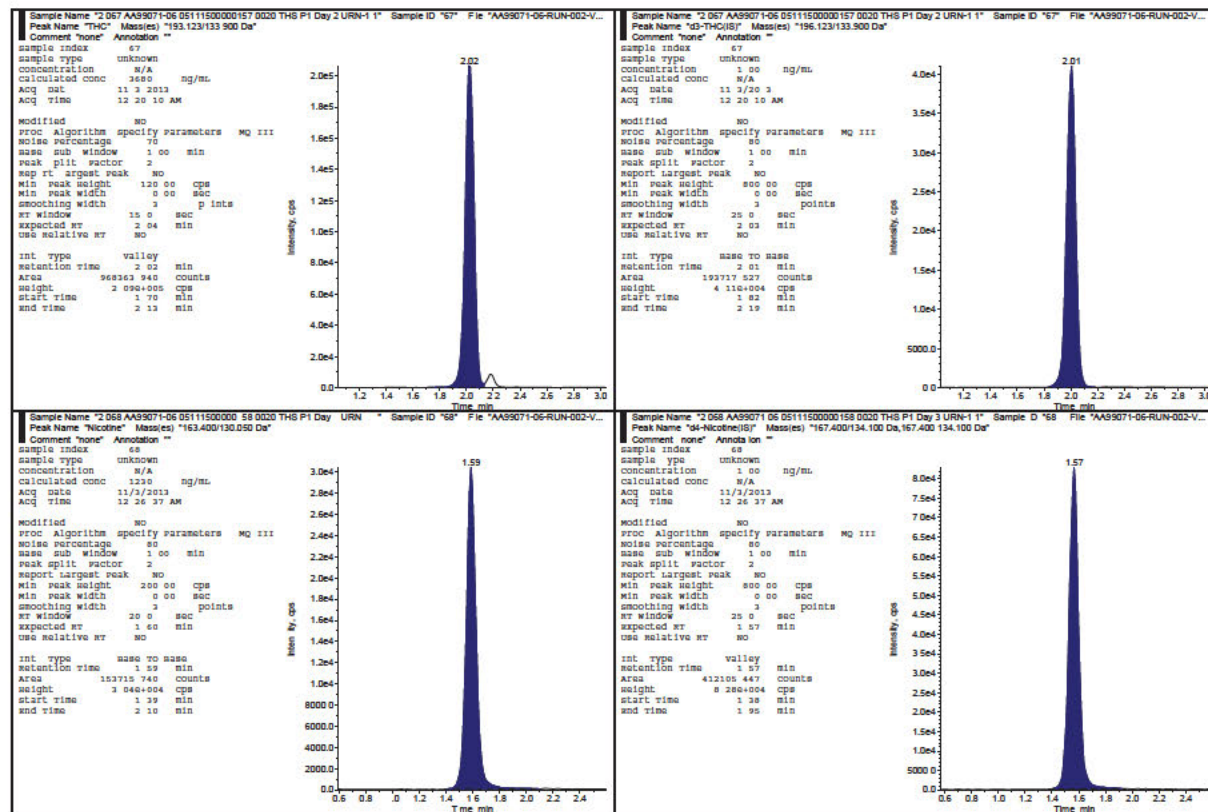
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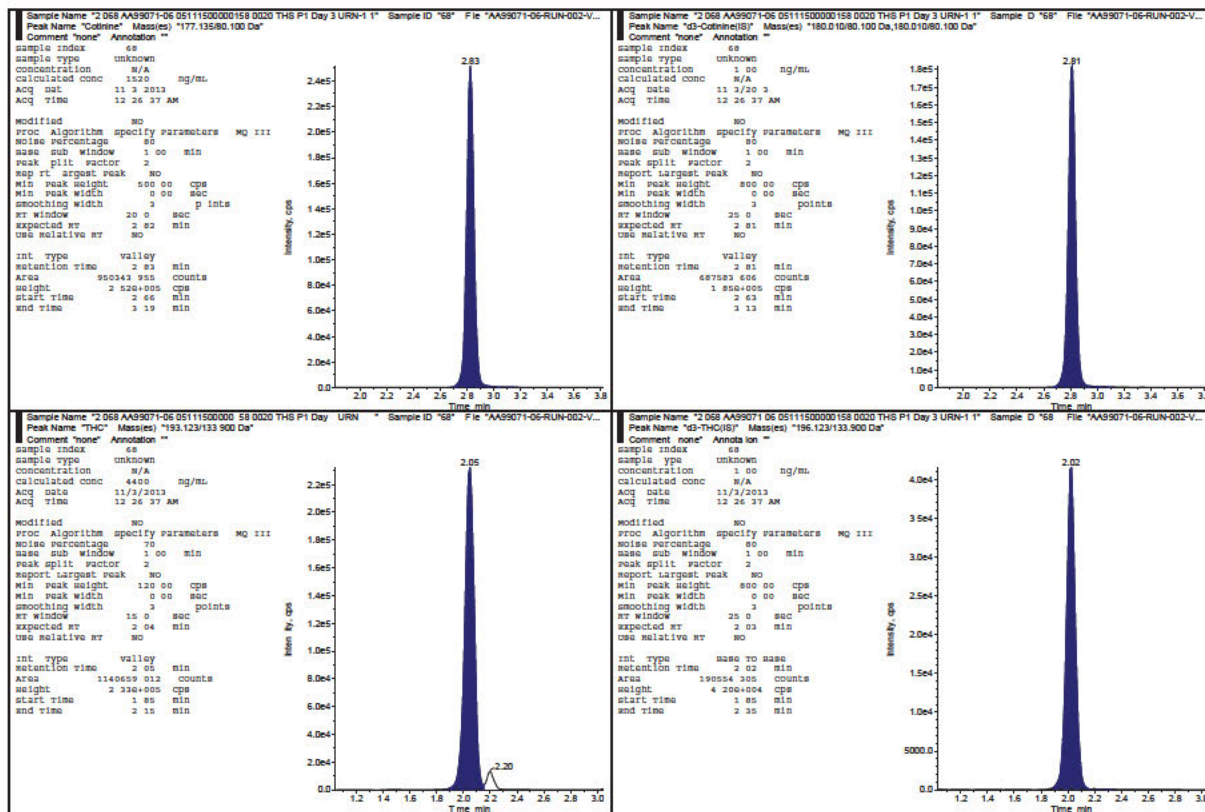


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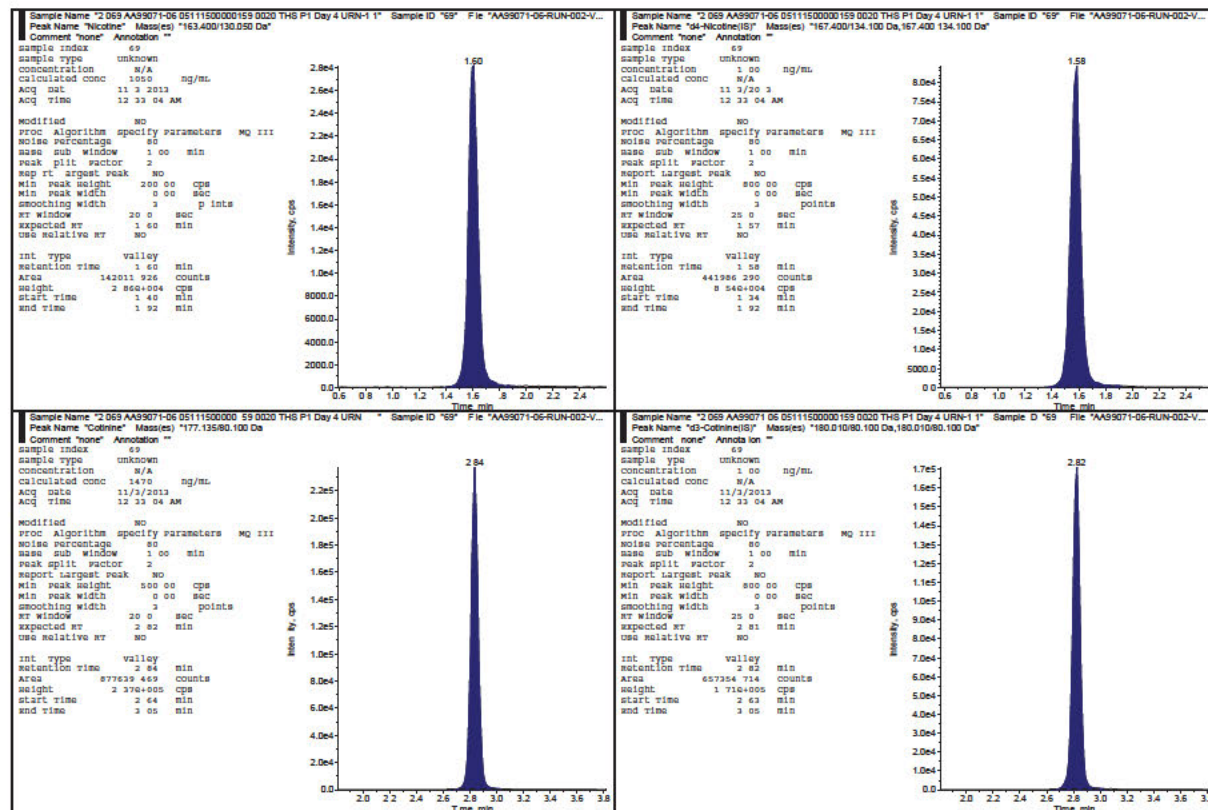


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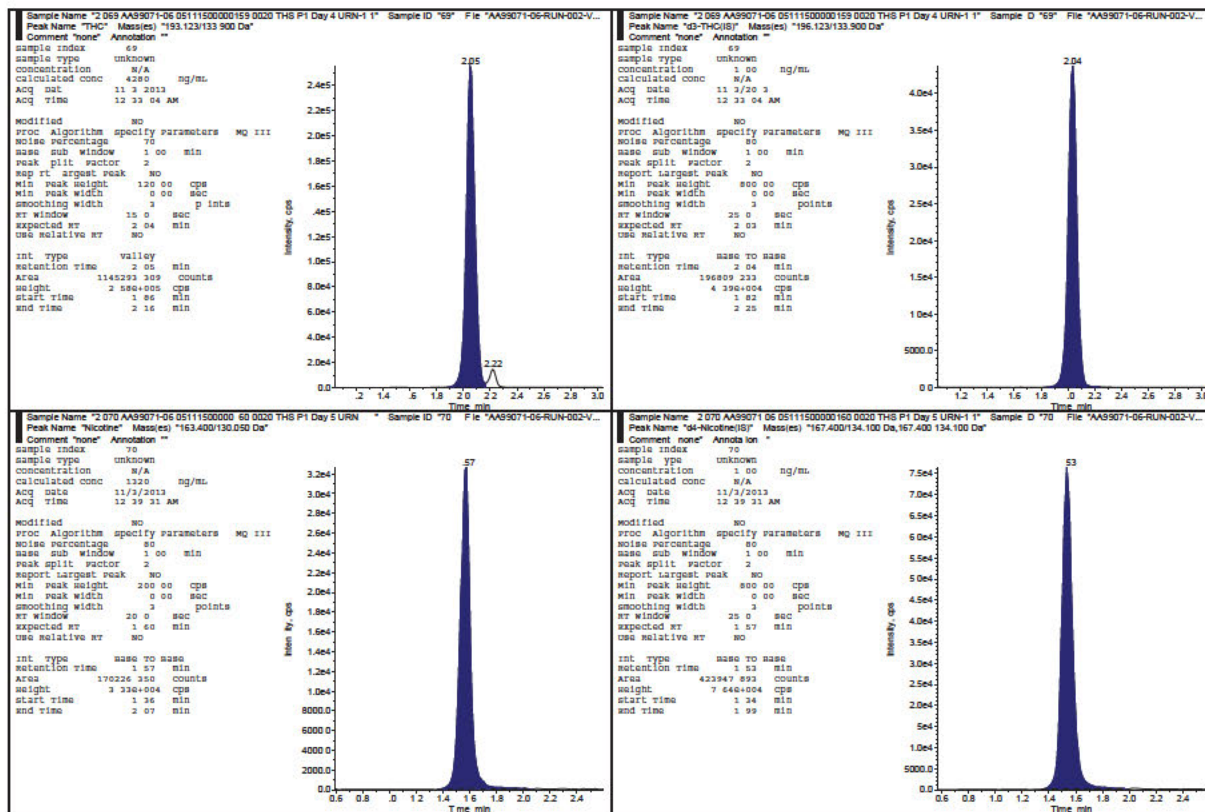


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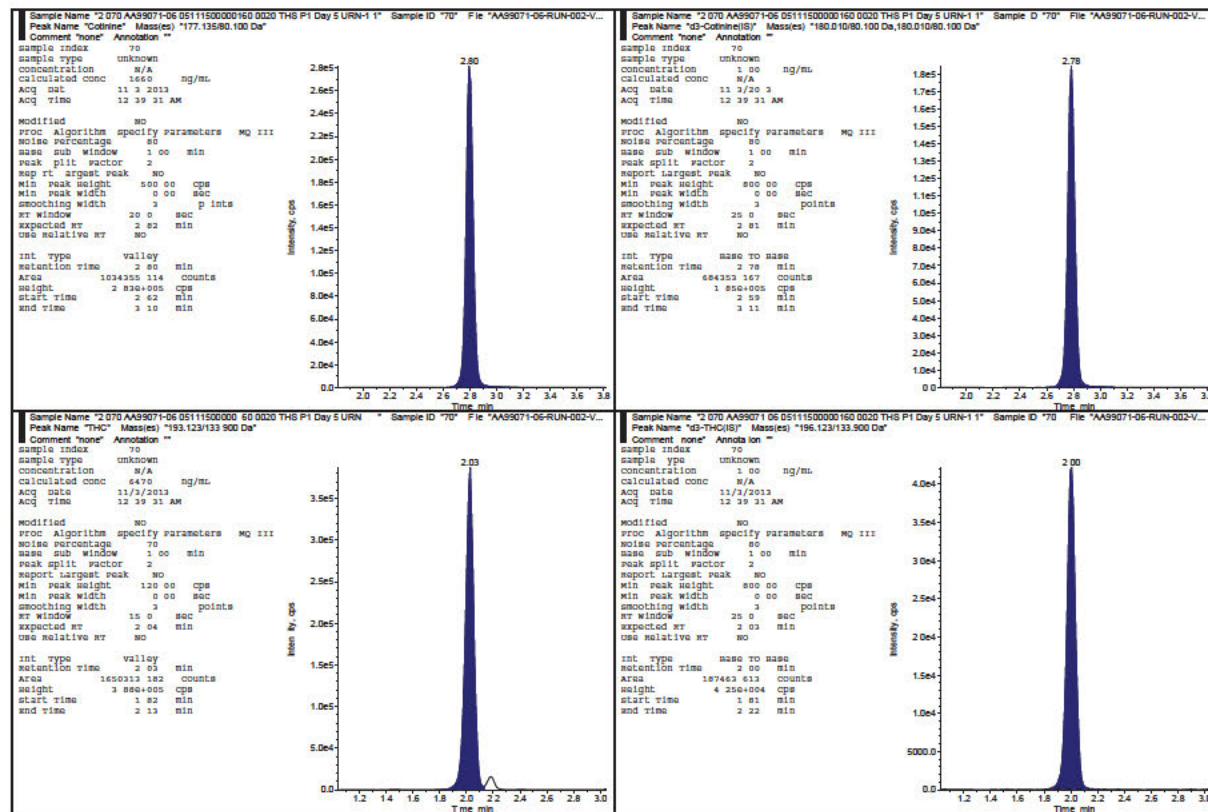
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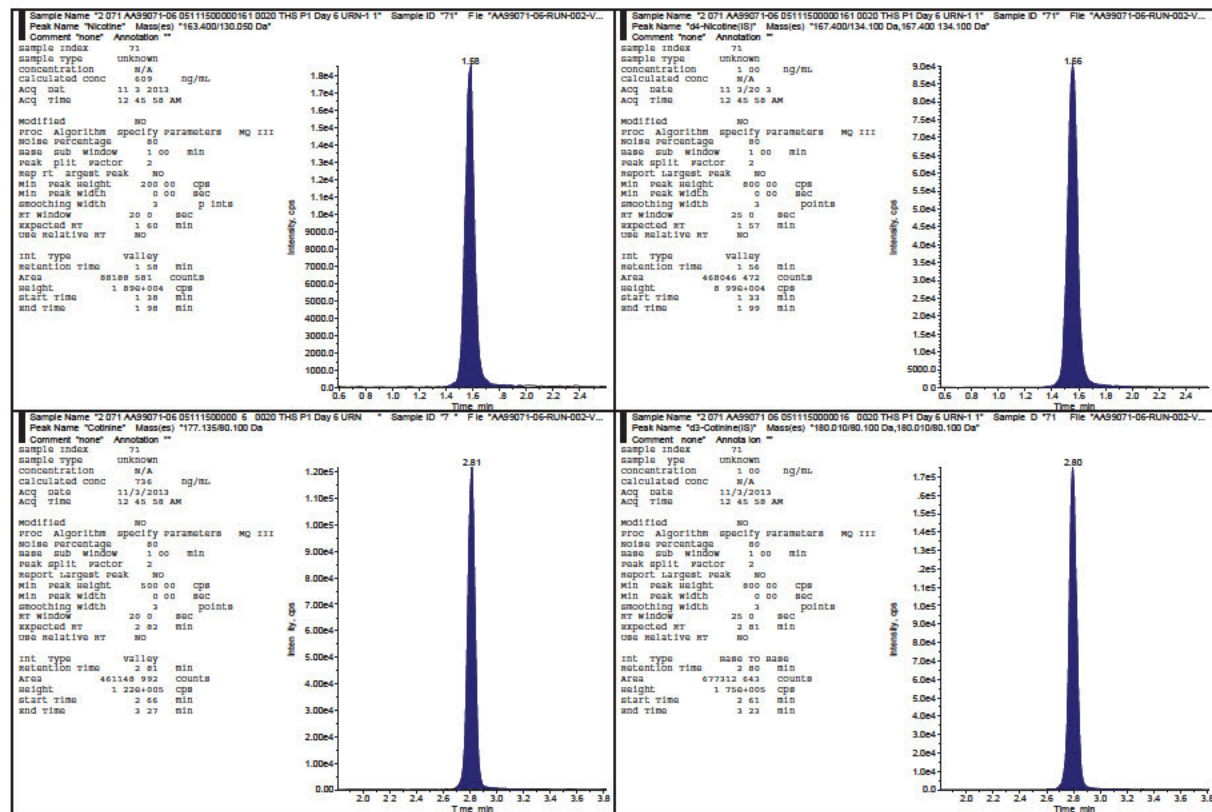


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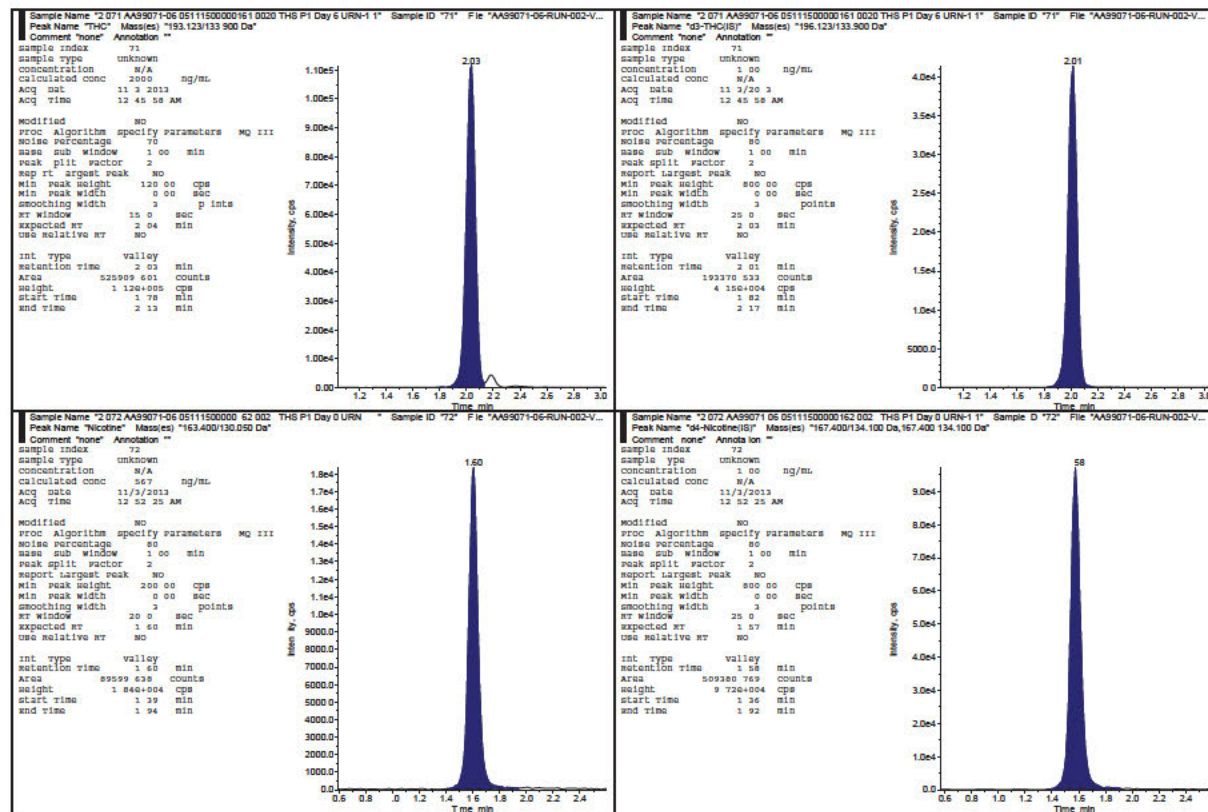


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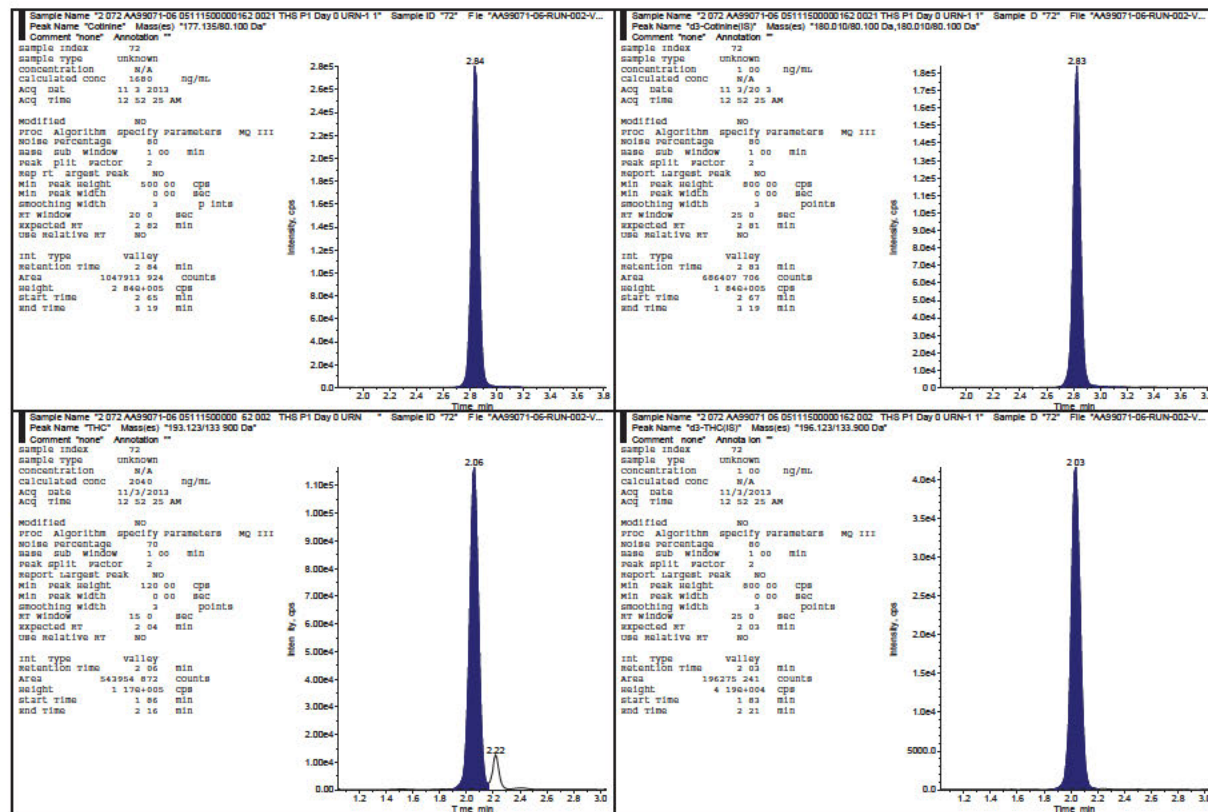


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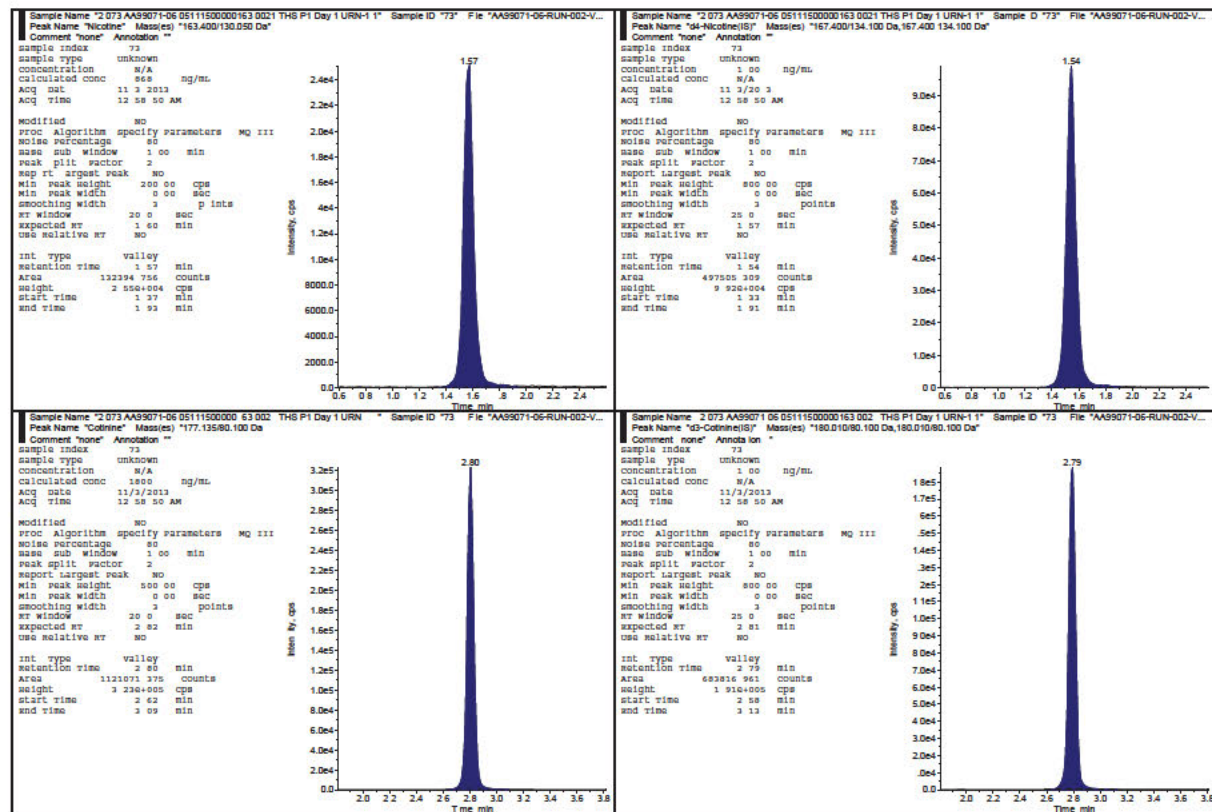
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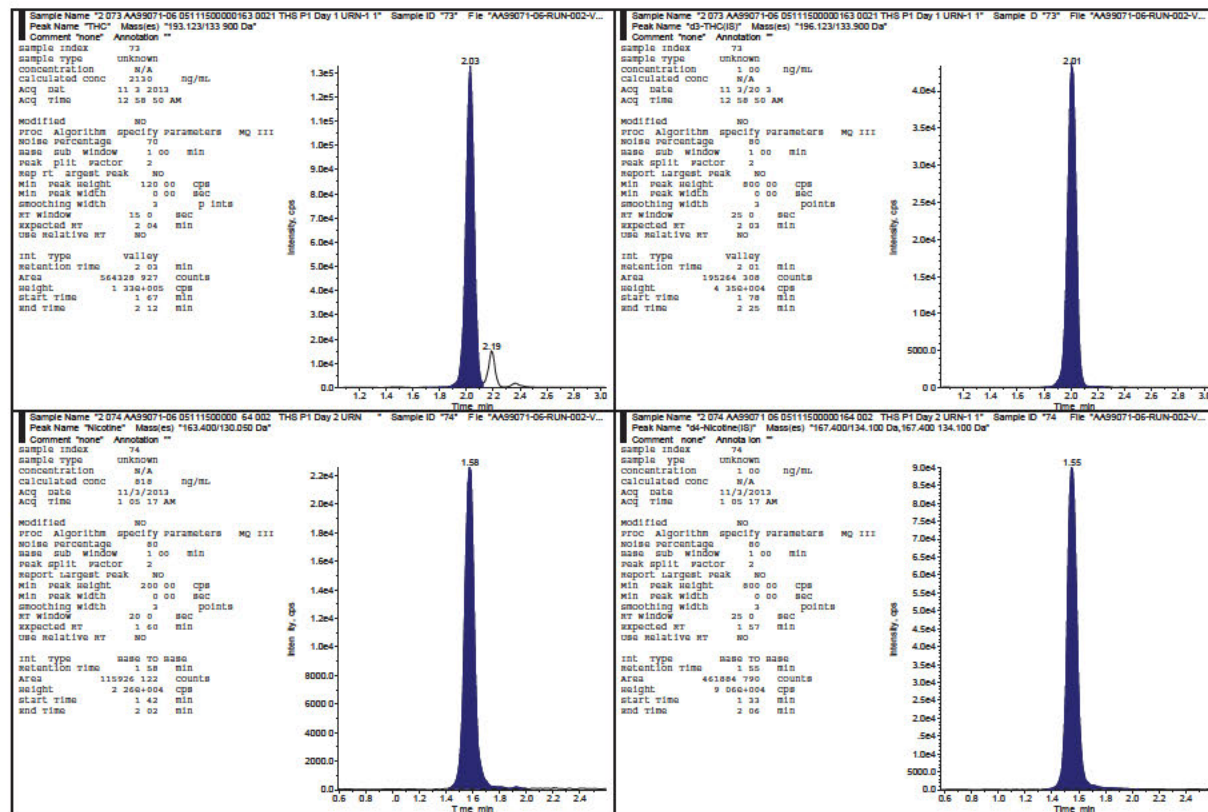


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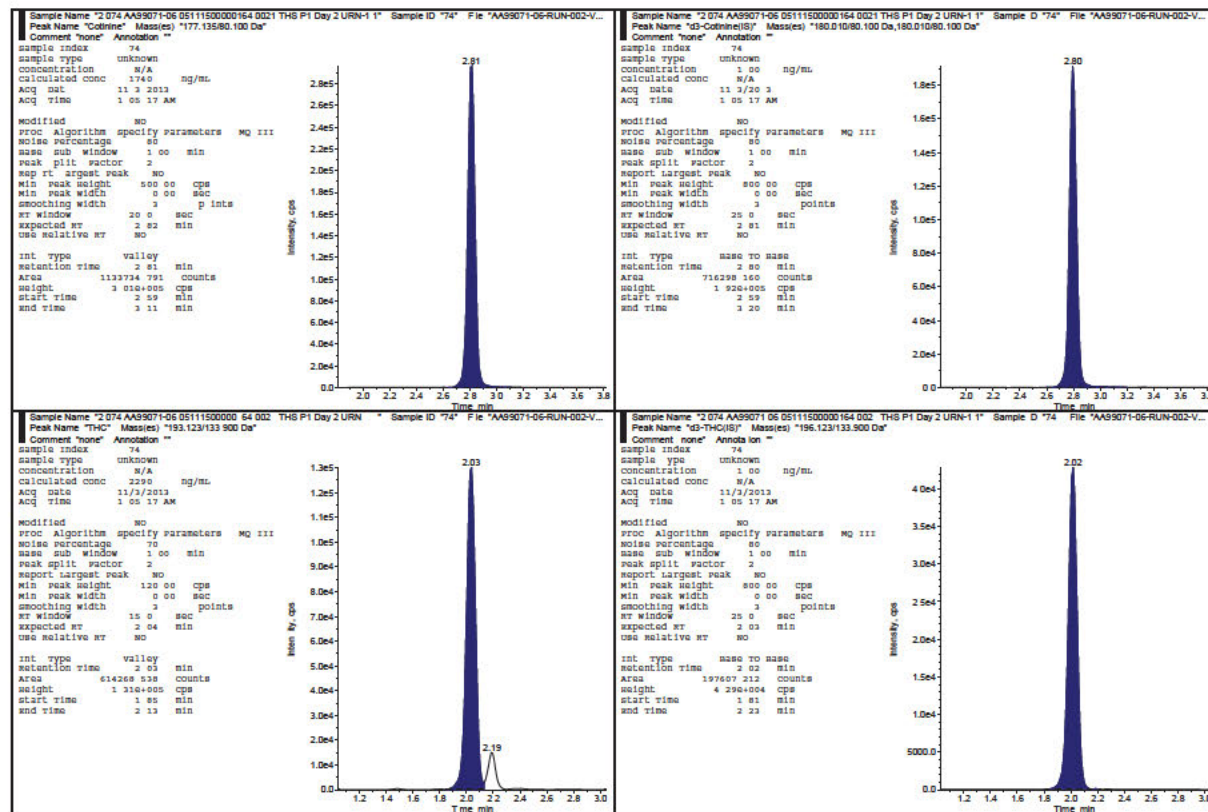


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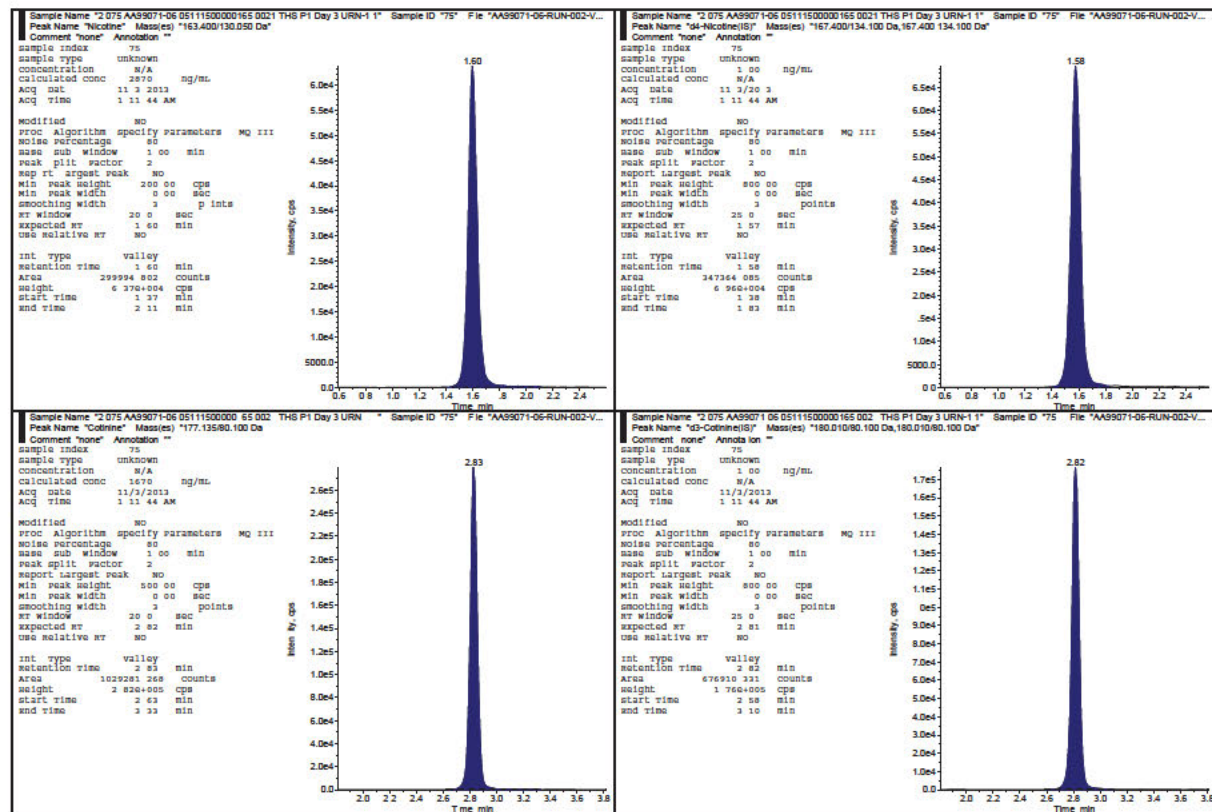


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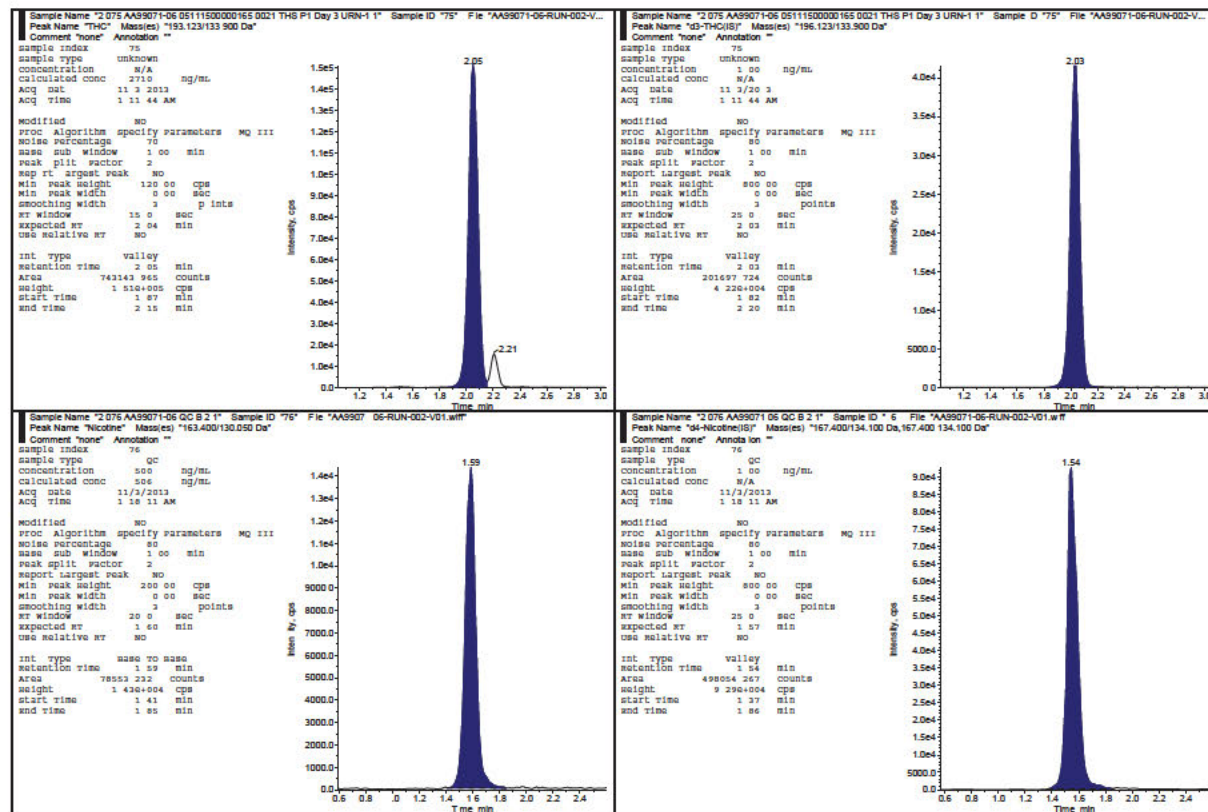
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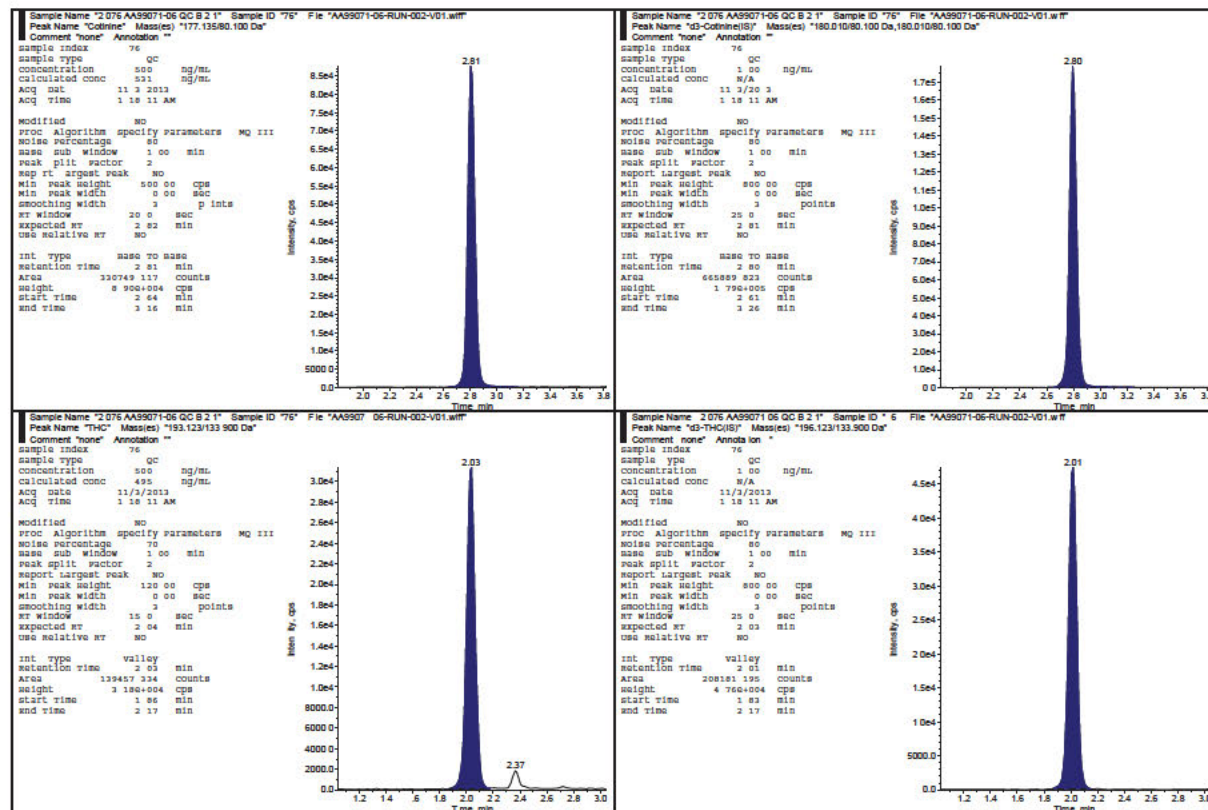


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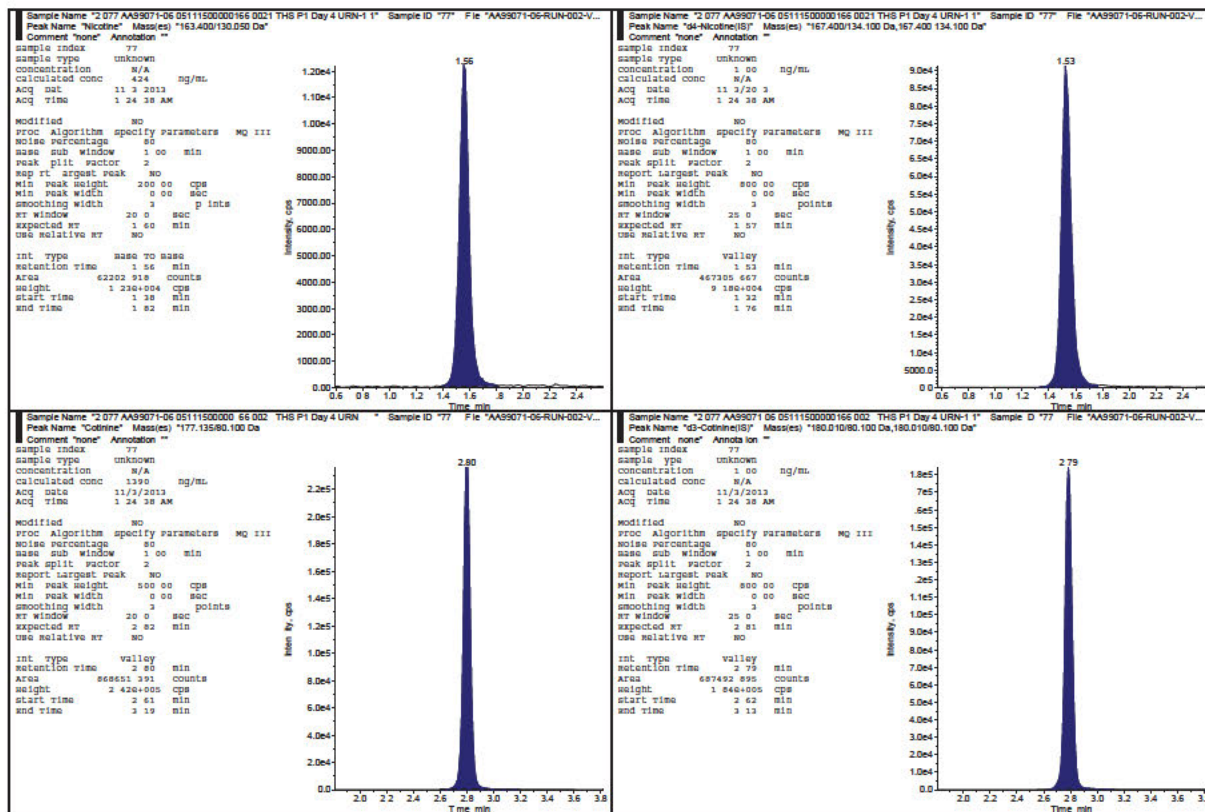


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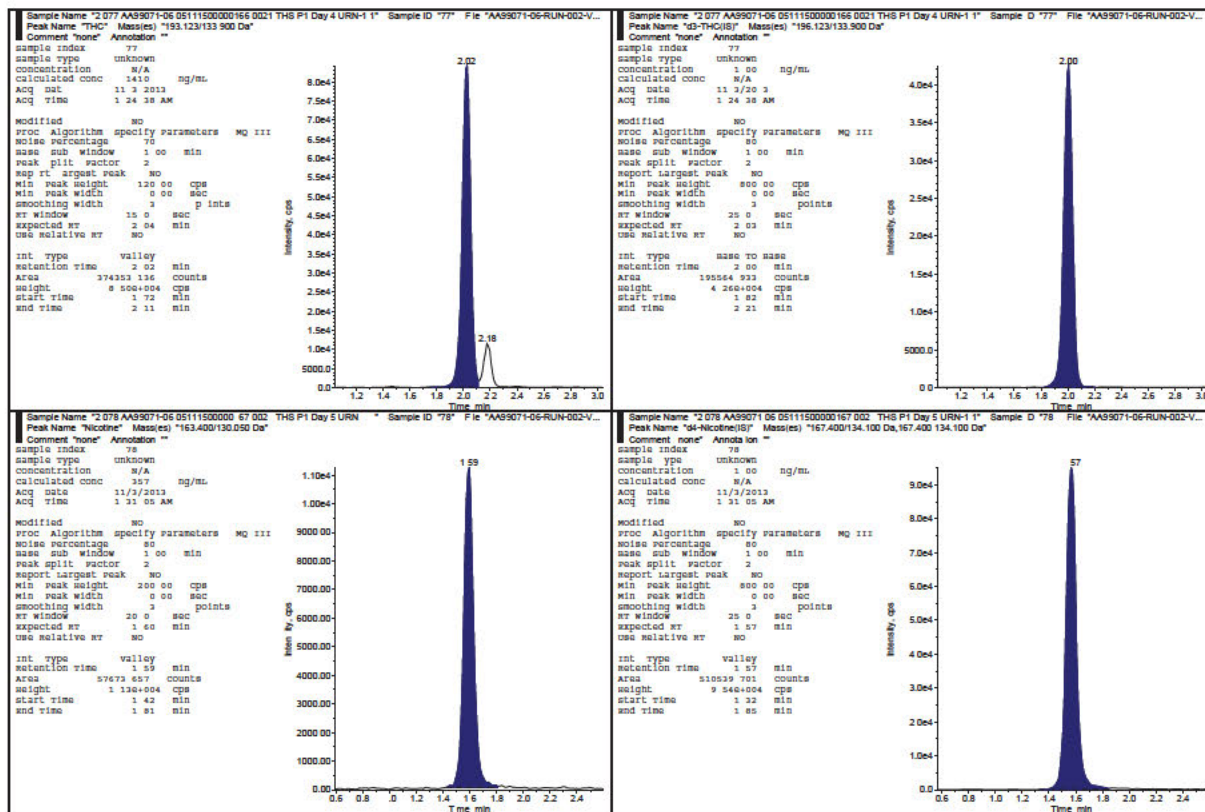


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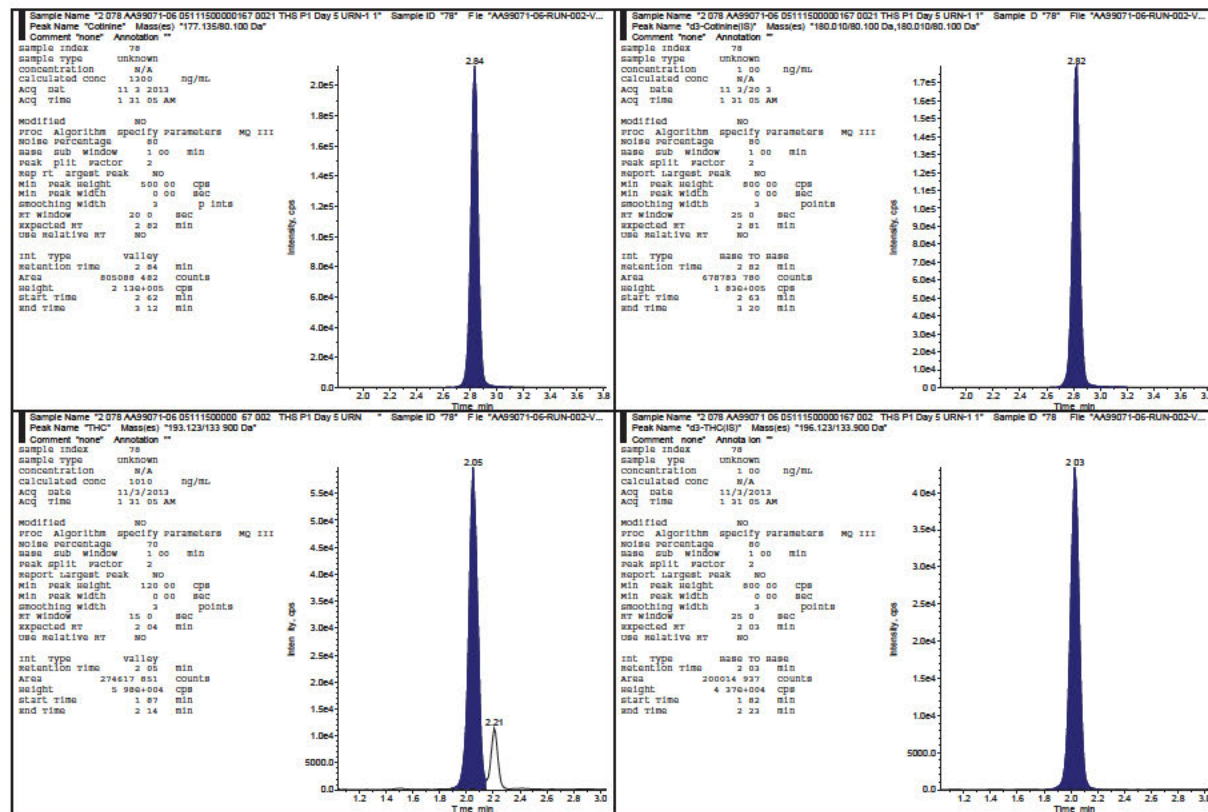
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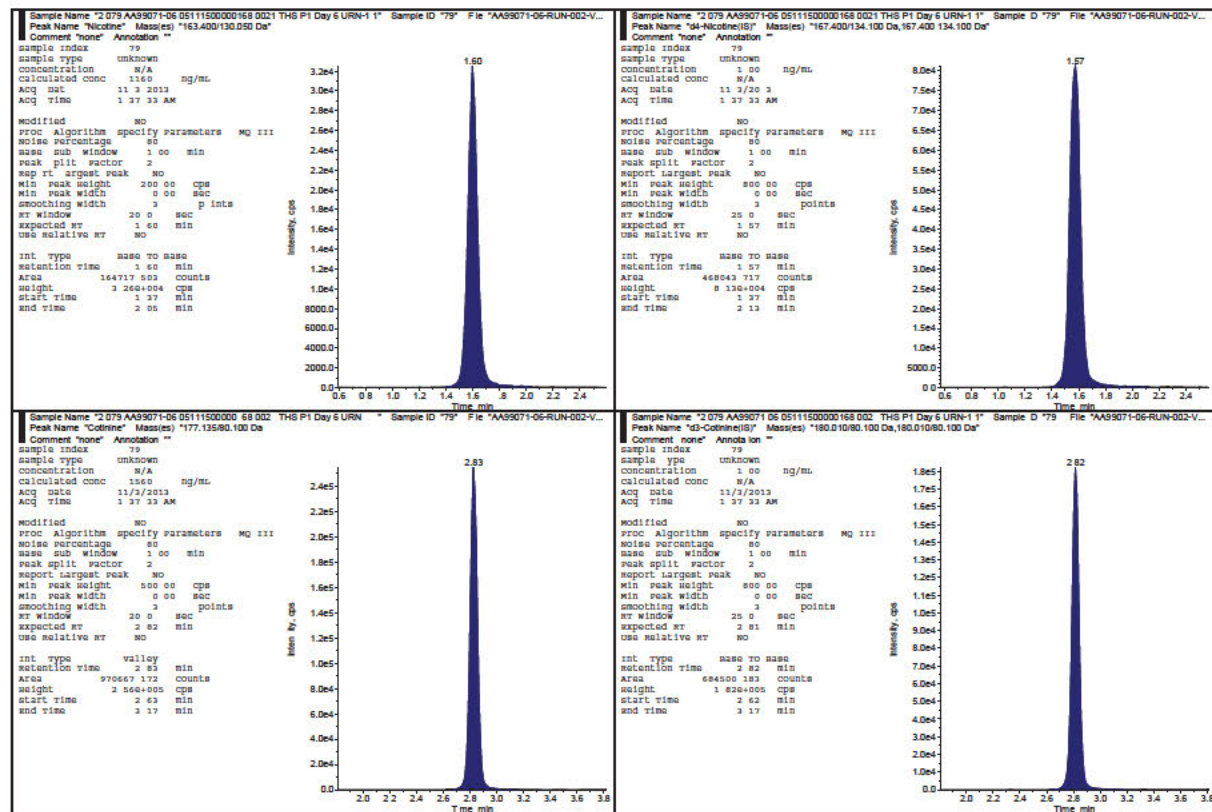


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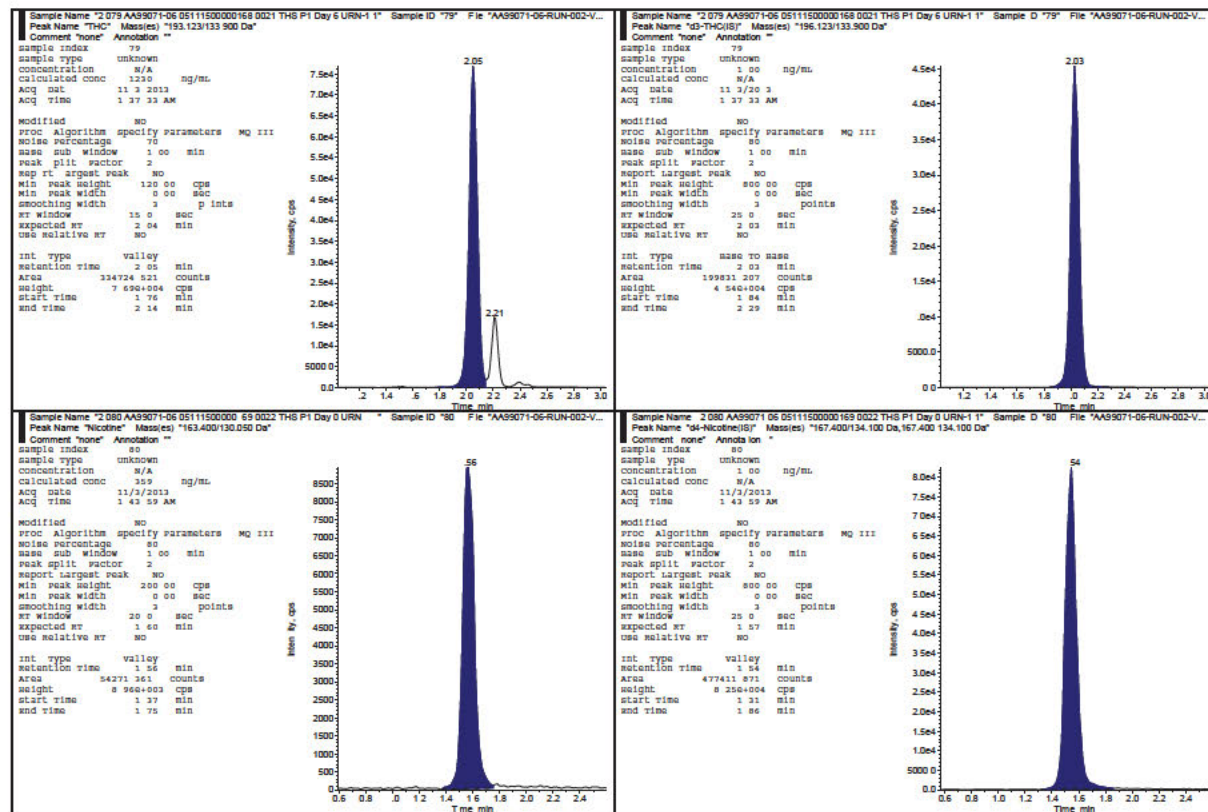


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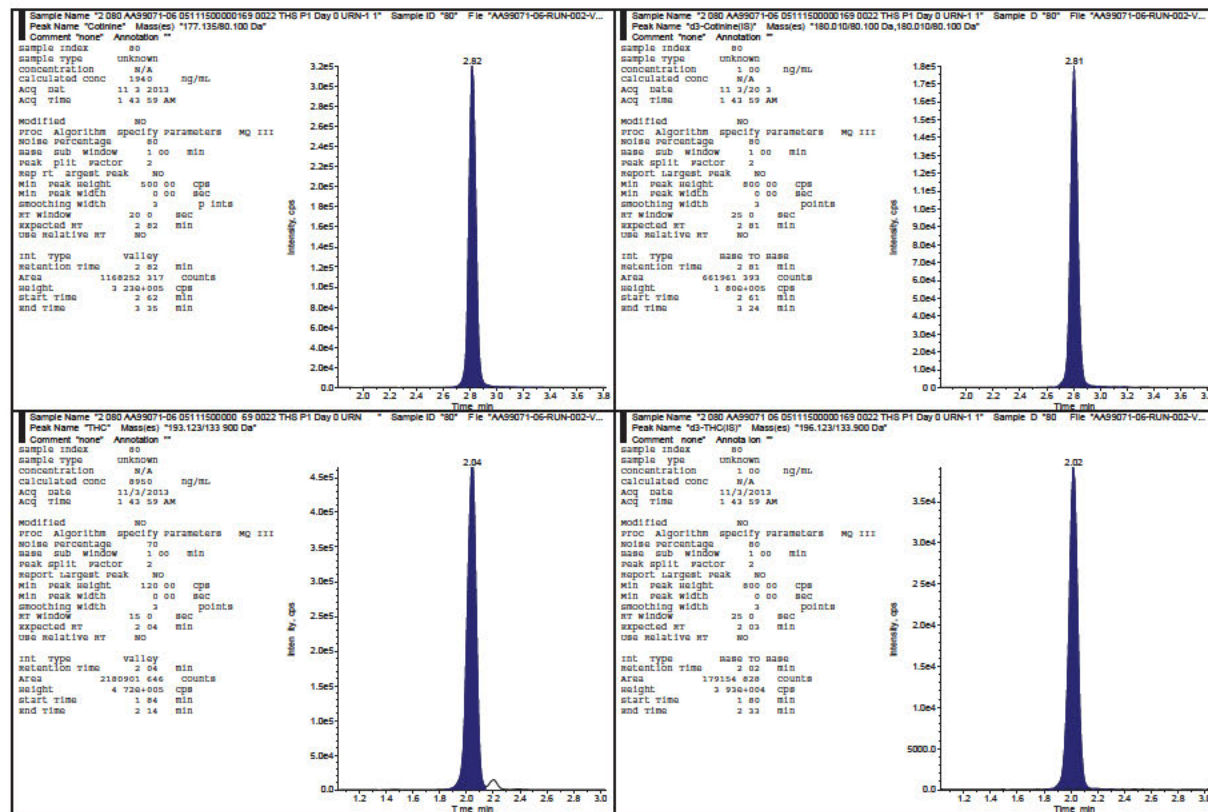


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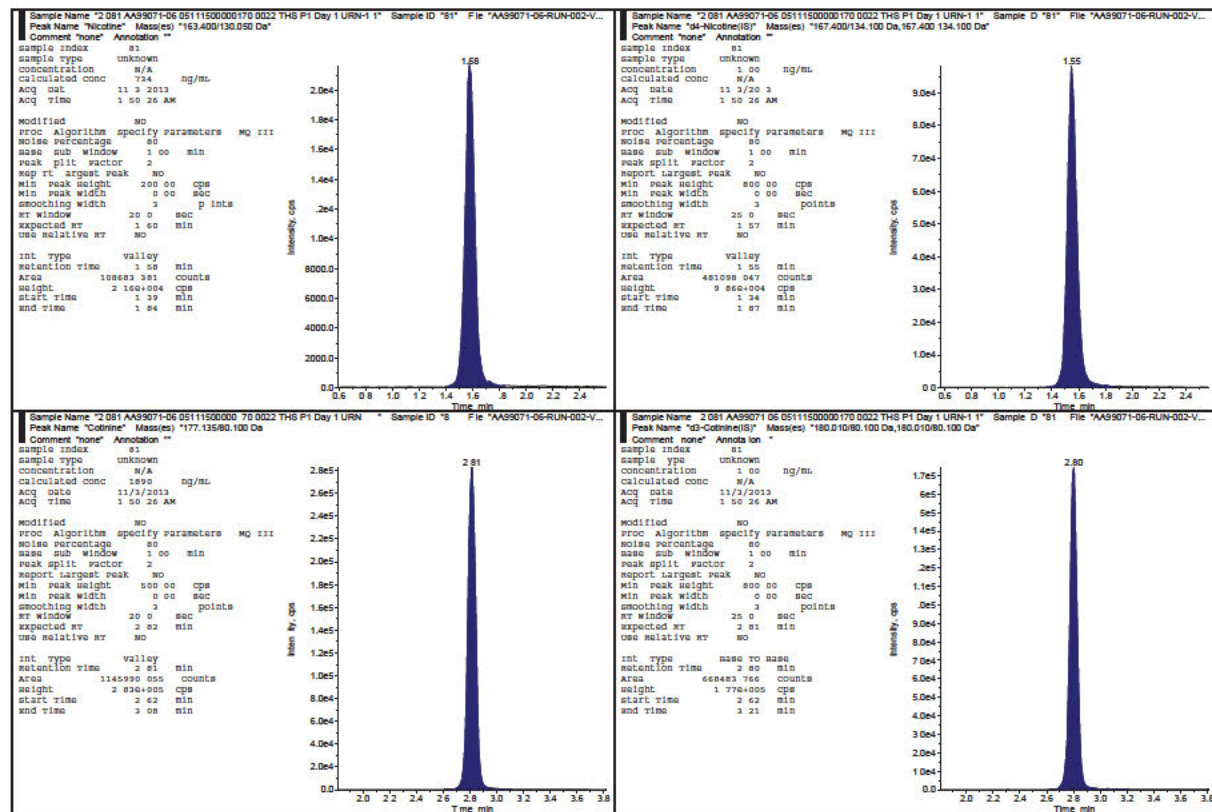
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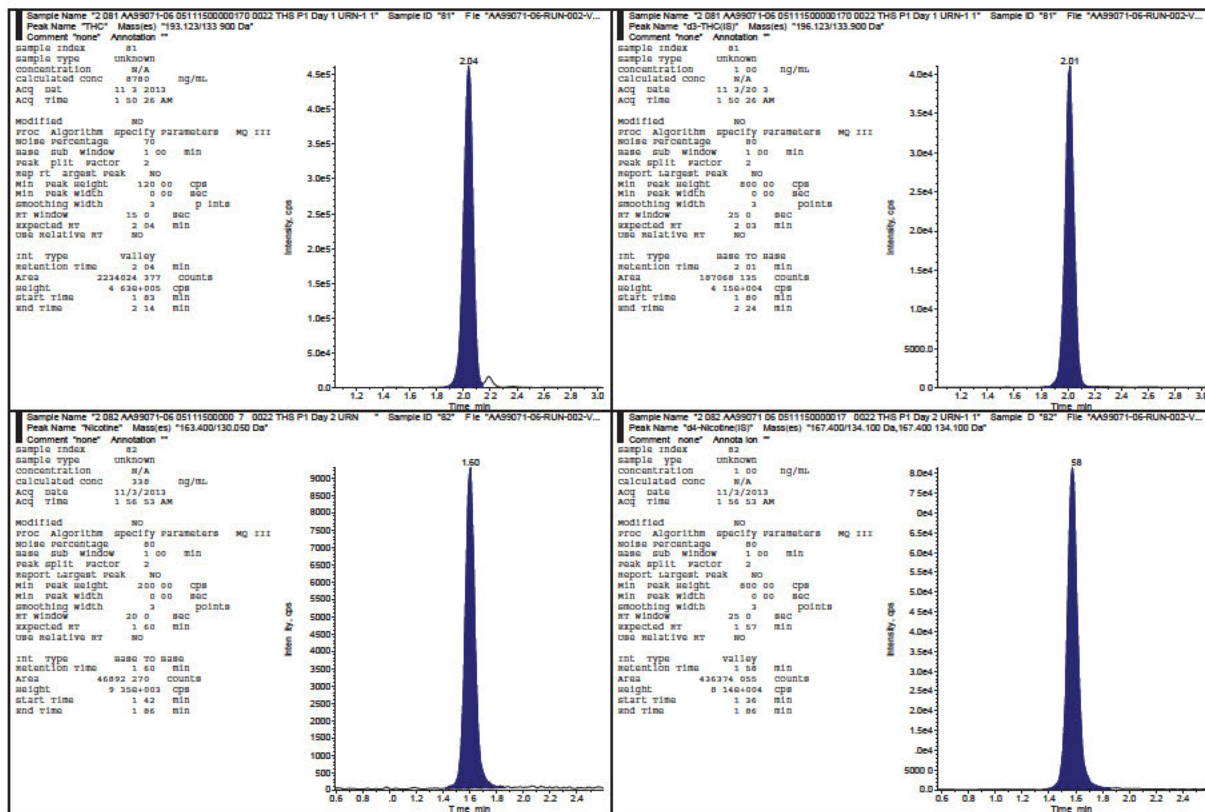


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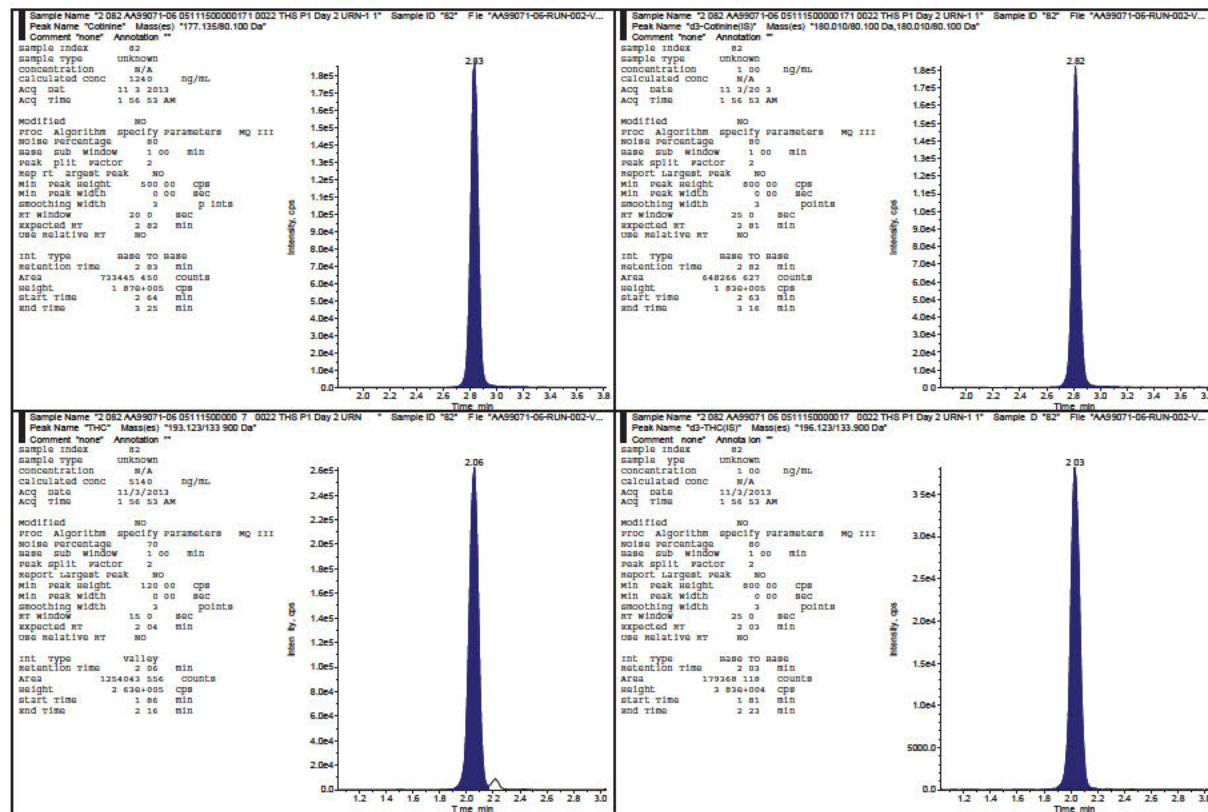


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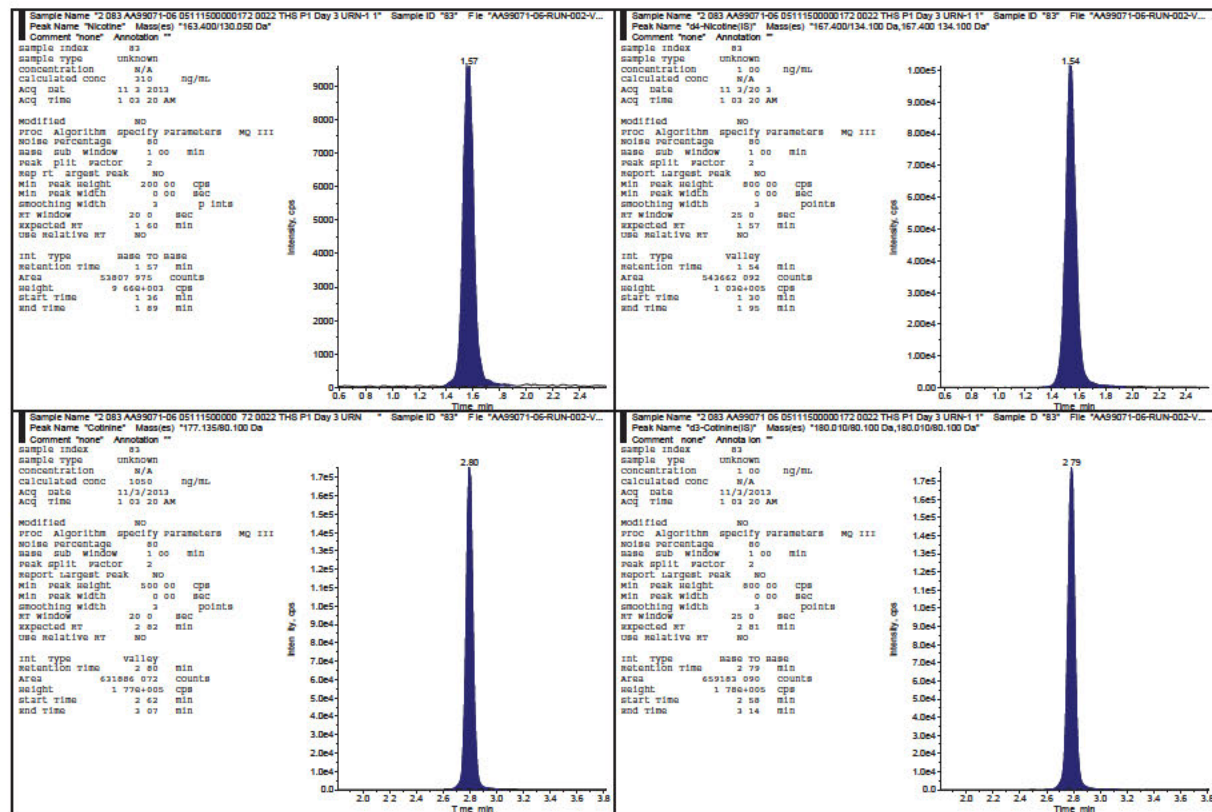


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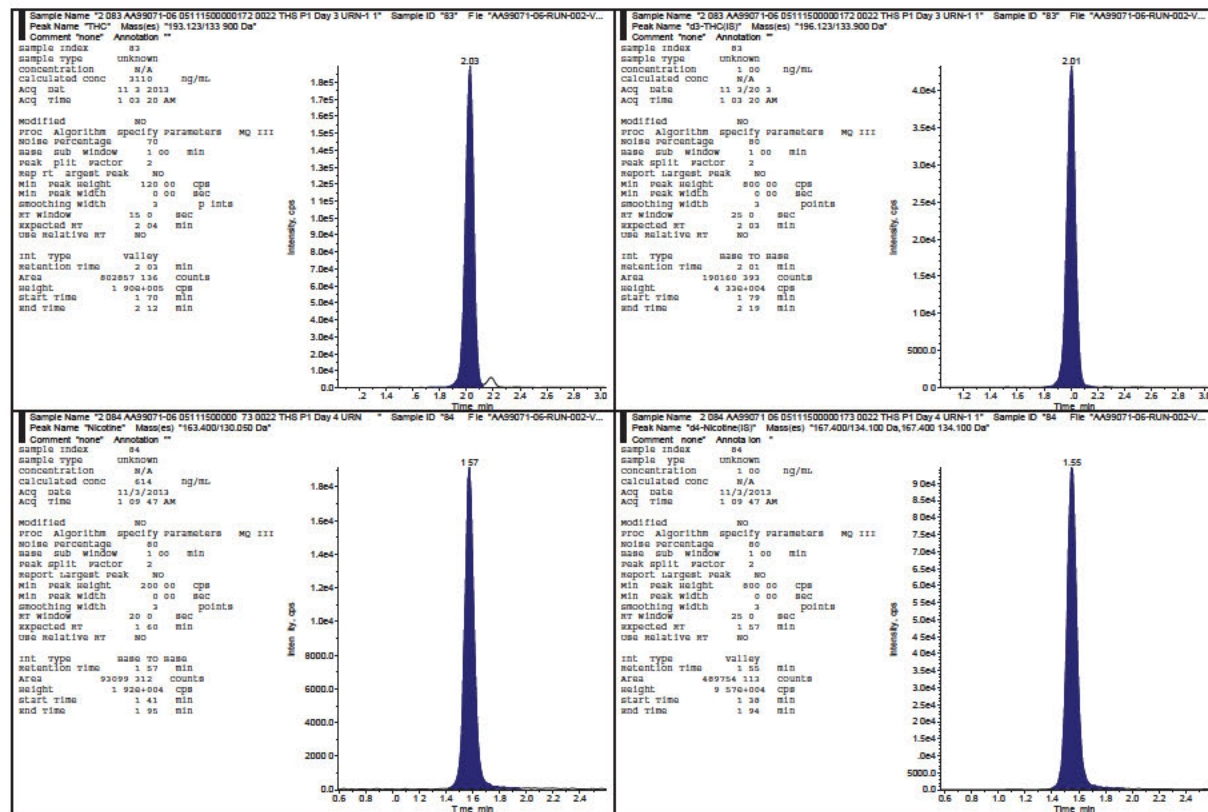
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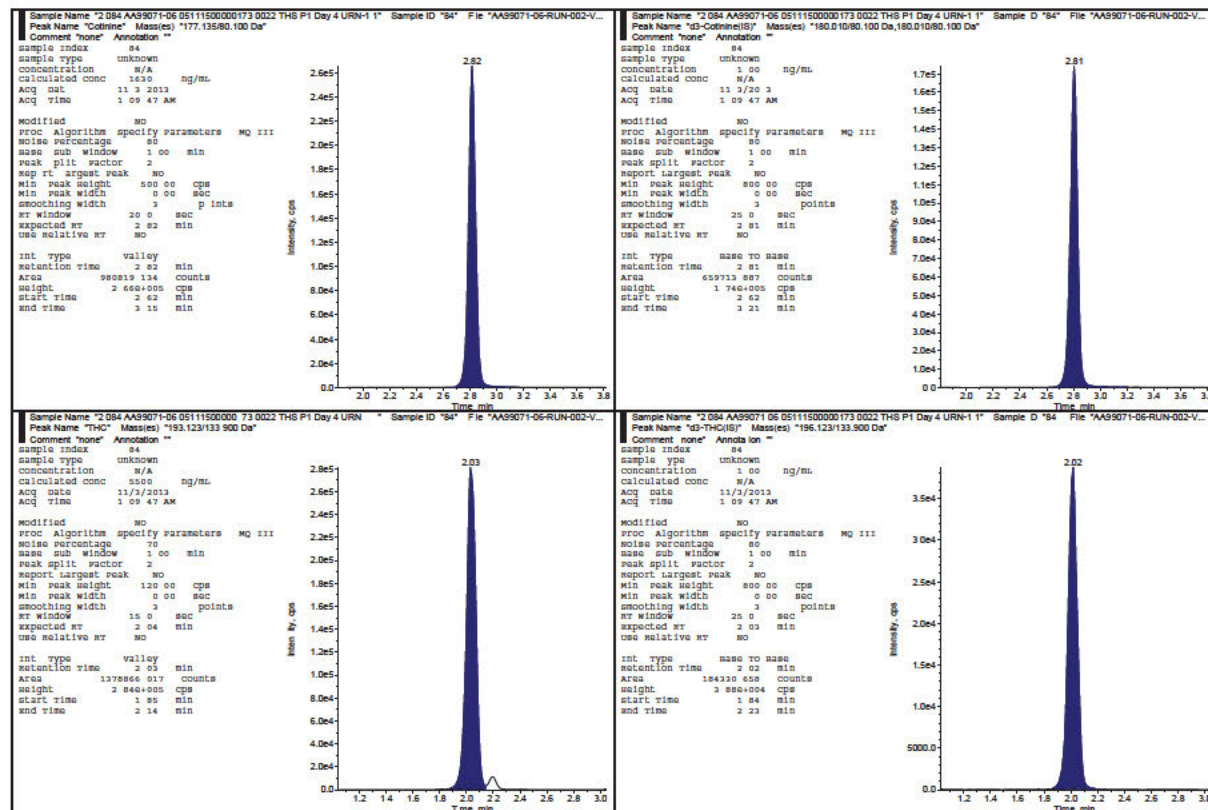


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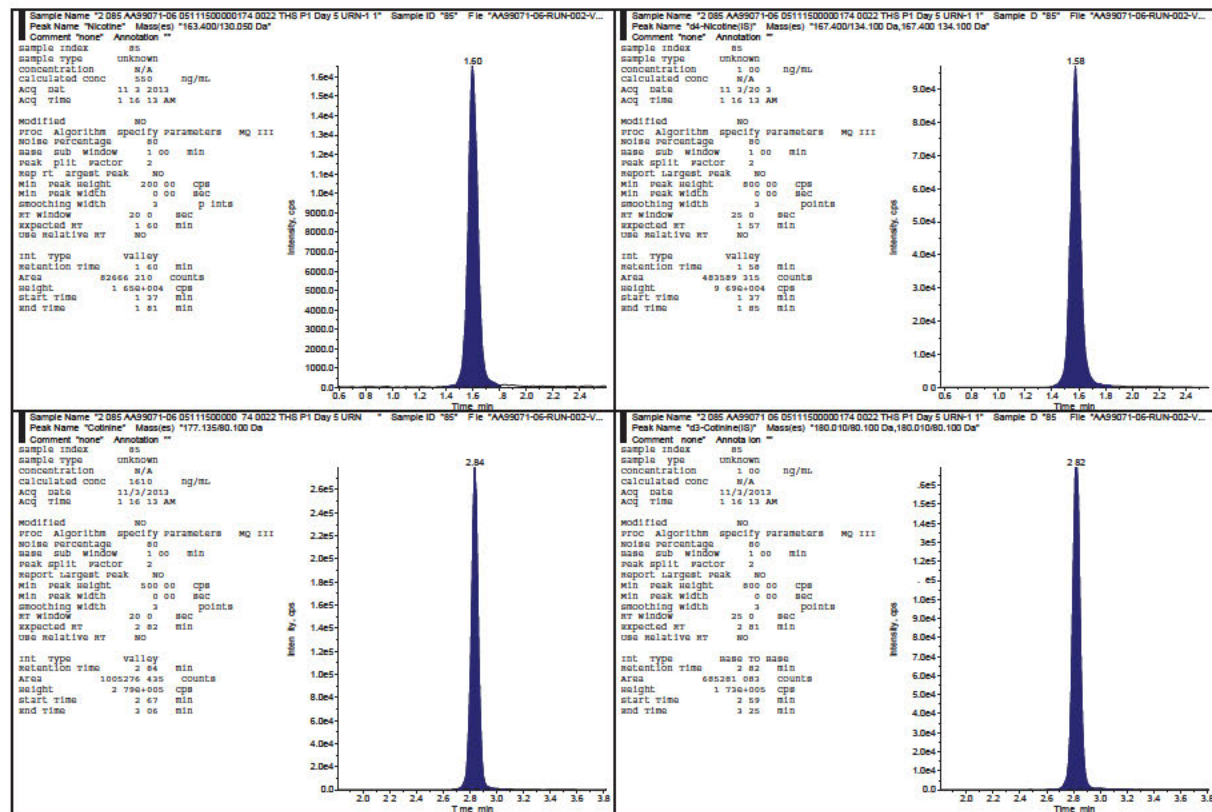


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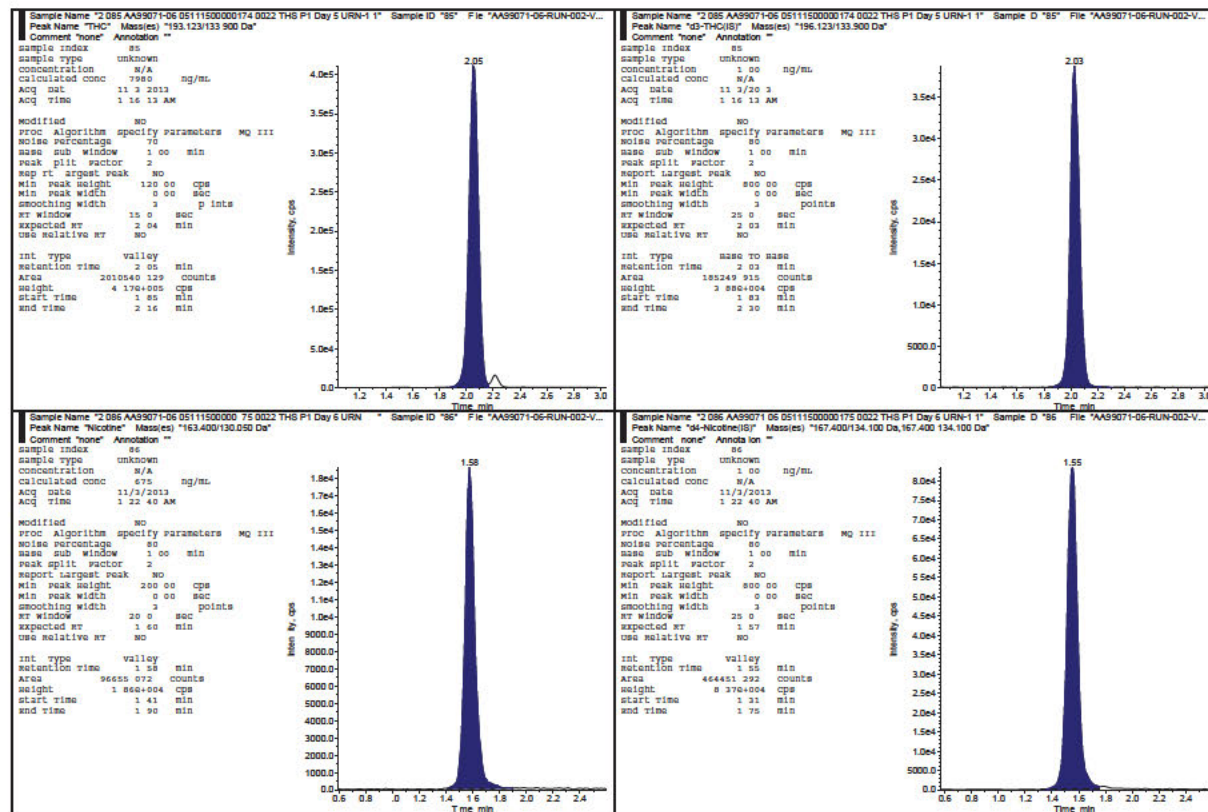


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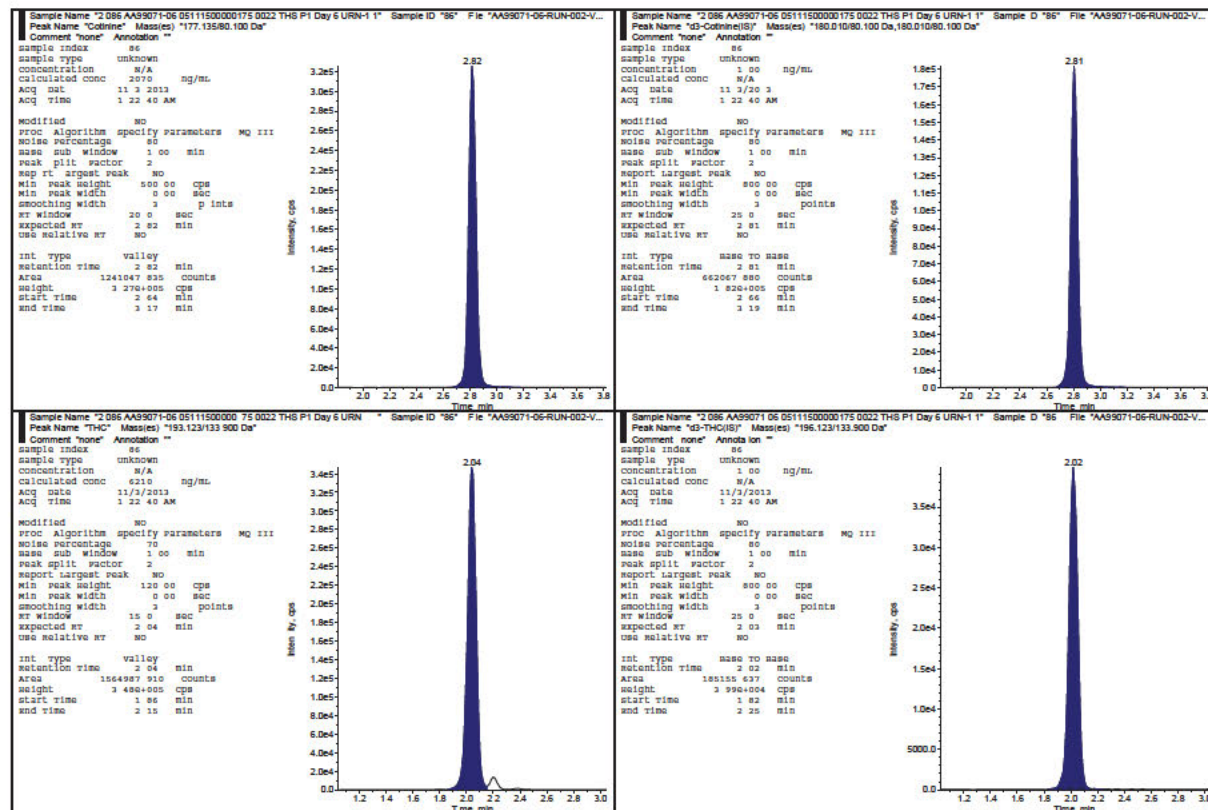
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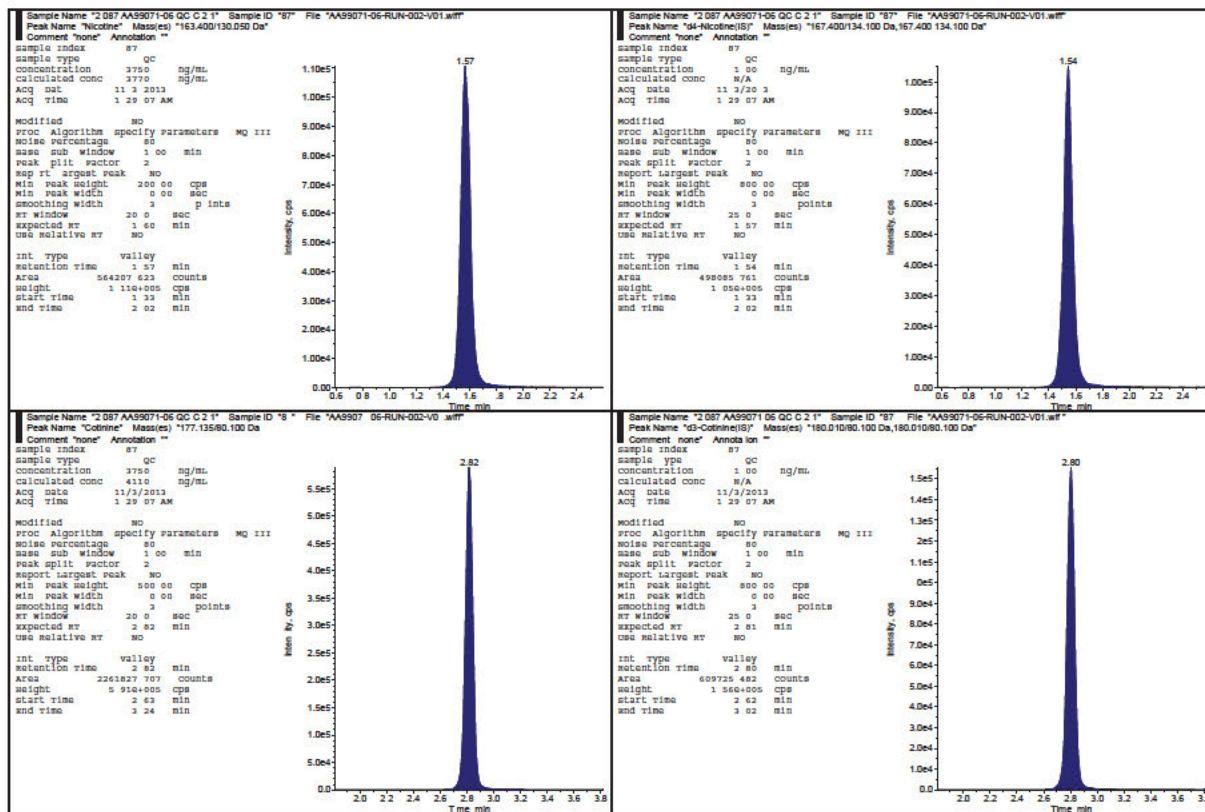


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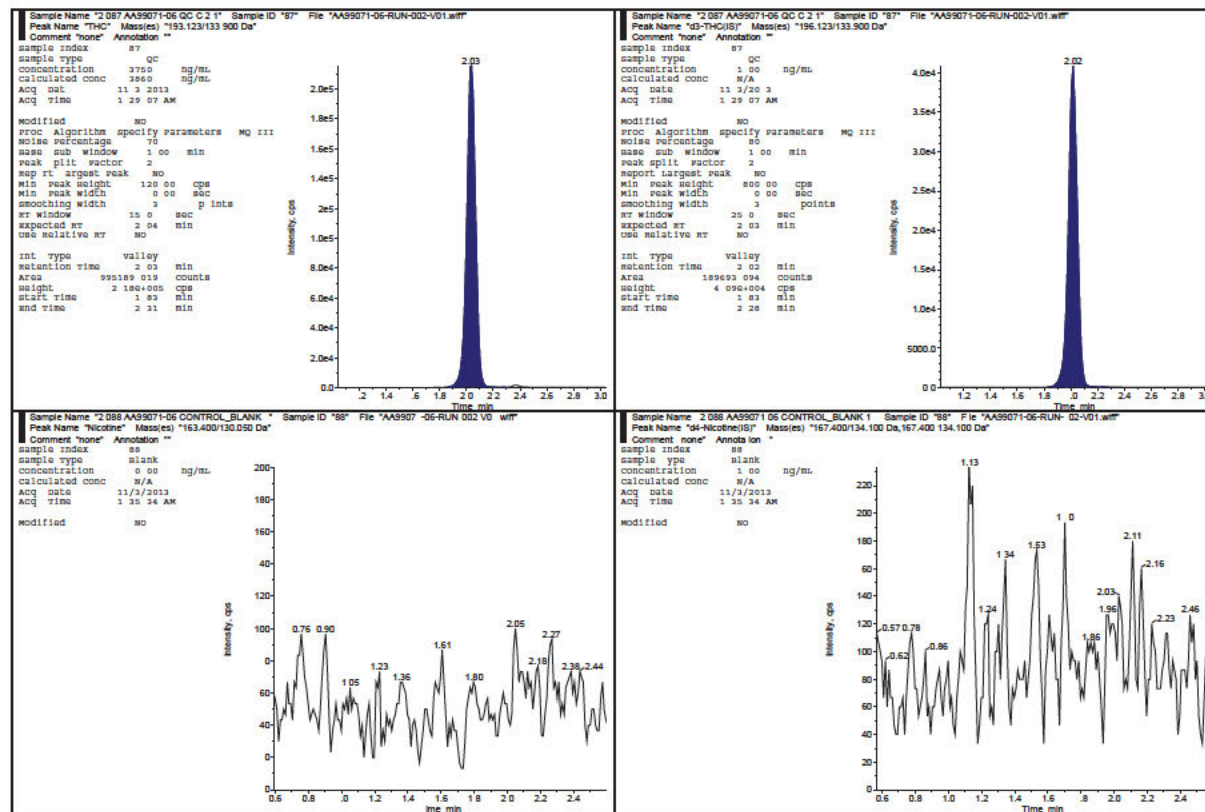


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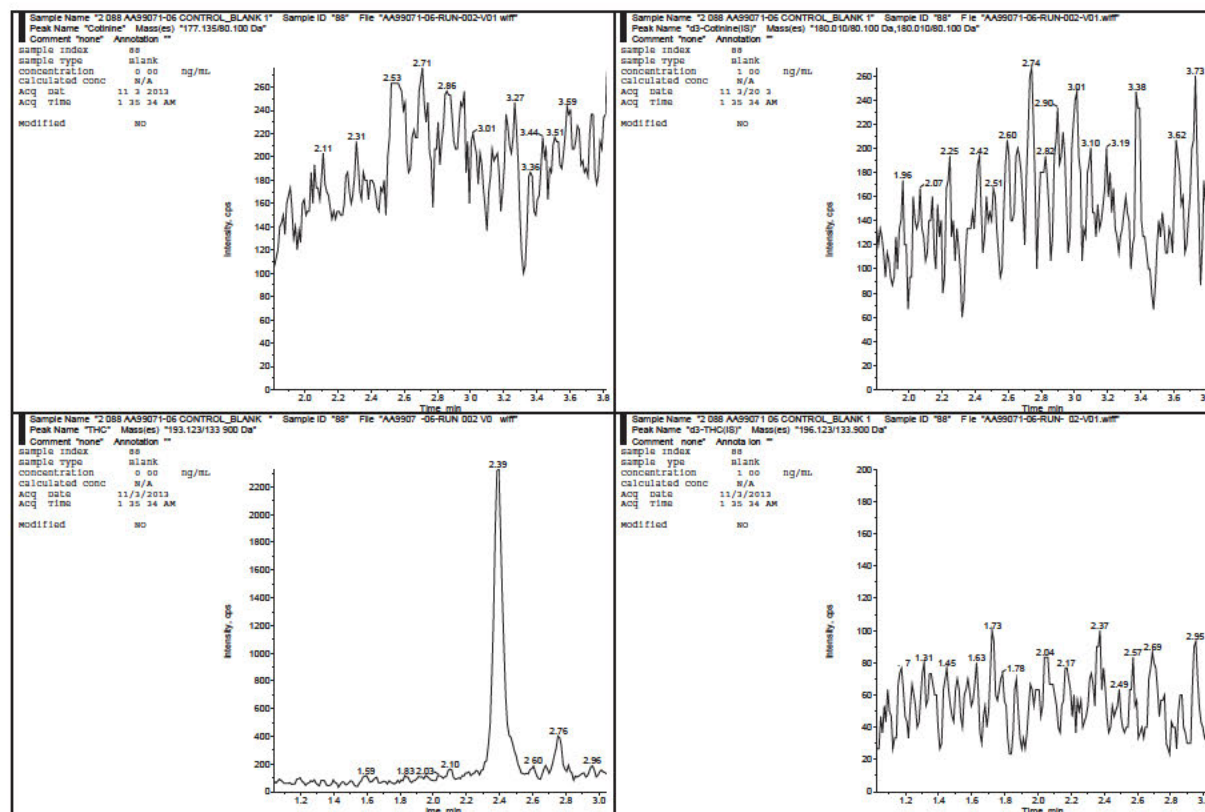


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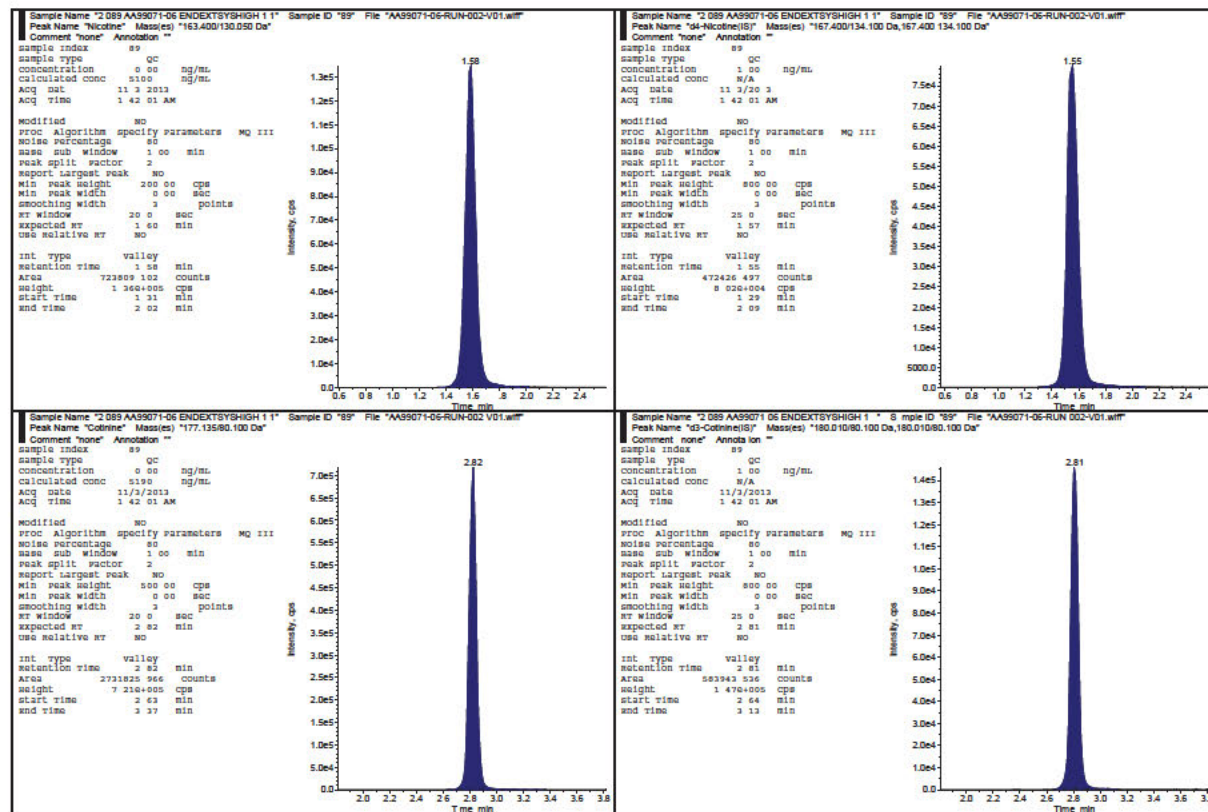
Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





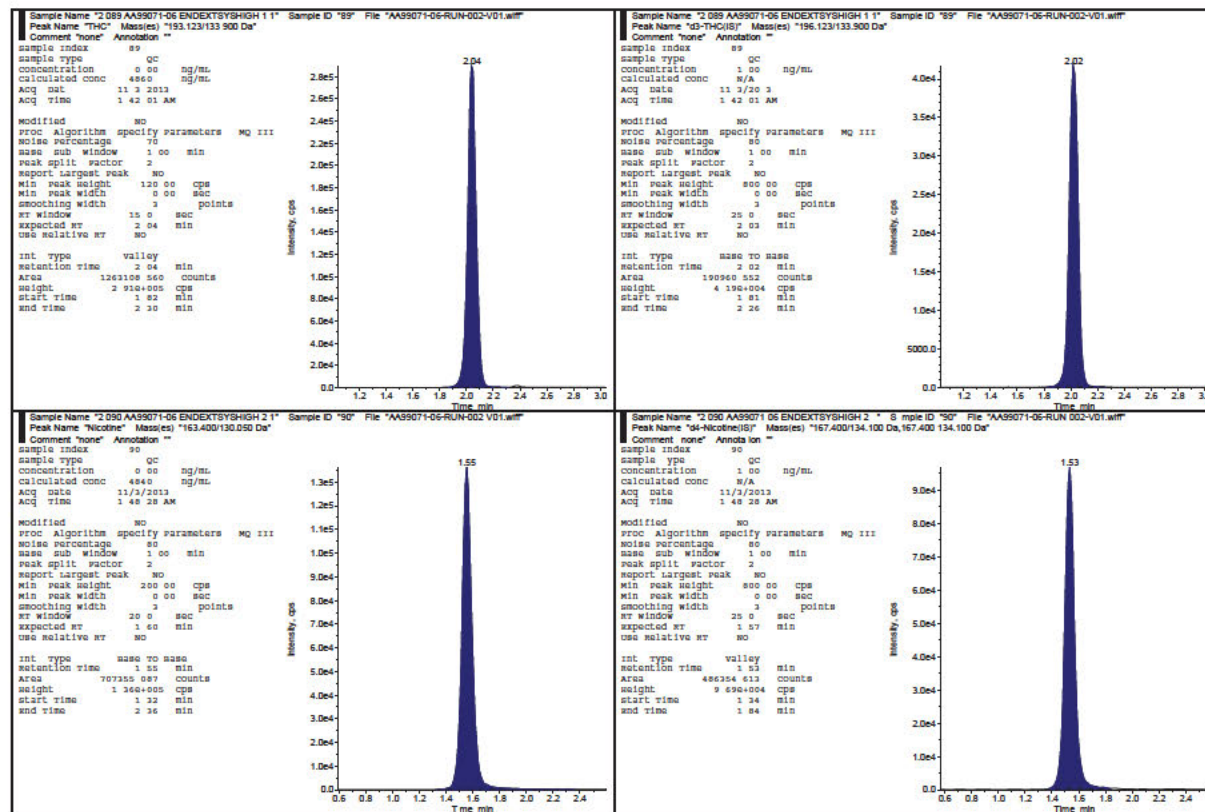


Nicotine, Cotinine, *trans*-3'-Hydroxycotinine, Nicotine-*N*-Glucuronide, Cotinine-*N*-Glucuronide, and *trans*-3'-Hydroxycotinine-*O*-Glucuronide in Human Urine  
Celerion Study AA99071-06





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Confidential

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**Sample Name:** "2 090 AA99071-06 ENDEXTSYHIGH 2 1"  
**Peak Name:** "Cotinine" Mass(es): "177.135/80.100 Da"  
**Comment:** "none" **Annotation:** ""

sample index	QC	90
sample type	QC	90
concentration	0.08 ng/mL	
calculated conc	4.990 ng/mL	
Acq date	11/3/2013	
Acq time	1:48:28 AM	

**Modified:** NO  
**Proc Algorithm:** specify parameters MQ III  
**Noise Percentage:** 80  
**Base Sub Window:** 1.00 min  
**Peak Split Factor:** 2  
**Report Largest Peak:** NO  
**Min Peak Height:** 500.00 cps  
**Min Peak Width:** 0.00 sec  
**Smoothing Width:** 3 points  
**RT Window:** 20.0 sec  
**Expected RT:** 2.82 min  
**Use Relative RT:** NO

**Int Type:** valley  
**Retention Time:** 2.80 min  
**Area:** 2577910.486 counts  
**Height:** 6.78e+005 cps  
**Start Time:** 2.61 min  
**End Time:** 3.35 min

**Sample Name:** "2 090 AA99071-06 ENDEXTSYHIGH 2 1"  
**Peak Name:** "d3-Cotinine(S)" Mass(es): "180.010/80.100 Da, 180.010/80.100 Da"  
**Comment:** "none" **Annotation:** ""

sample index	QC	90
sample type	QC	90
concentration	1.00 ng/mL	
calculated conc	N/A	
Acq date	11/3/2013	
Acq time	1:48:28 AM	

**Modified:** NO  
**Proc Algorithm:** specify parameters MQ III  
**Noise Percentage:** 80  
**Base Sub Window:** 1.00 min  
**Peak Split Factor:** 2  
**Report Largest Peak:** NO  
**Min Peak Height:** 500.00 cps  
**Min Peak Width:** 0.00 sec  
**Smoothing Width:** 3 points  
**RT Window:** 20.0 sec  
**Expected RT:** 2.81 min  
**Use Relative RT:** NO

**Int Type:** valley  
**Retention Time:** 2.79 min  
**Area:** 584375.123 counts  
**Height:** 1.52e+005 cps  
**Start Time:** 2.63 min  
**End Time:** 3.27 min

**Sample Name:** "2 090 AA99071-06 ENDEXTSYHIGH 2 1"  
**Peak Name:** "THC" Mass(es): "193.123/133.900 Da"  
**Comment:** "none" **Annotation:** ""

sample index	QC	90
sample type	QC	90
concentration	0.08 ng/mL	
calculated conc	4.990 ng/mL	
Acq date	11/3/2013	
Acq time	1:48:28 AM	

**Modified:** NO  
**Proc Algorithm:** specify parameters MQ III  
**Noise Percentage:** 80  
**Base Sub Window:** 1.00 min  
**Peak Split Factor:** 2  
**Report Largest Peak:** NO  
**Min Peak Height:** 120.00 cps  
**Min Peak Width:** 0.00 sec  
**Smoothing Width:** 3 points  
**RT Window:** 15.00 sec  
**Expected RT:** 2.04 min  
**Use Relative RT:** NO

**Int Type:** valley  
**Retention Time:** 2.03 min  
**Area:** 1239988.949 counts  
**Height:** 2.61e+005 cps  
**Start Time:** 1.91 min  
**End Time:** 2.27 min

**Sample Name:** "2 090 AA99071-06 ENDEXTSYHIGH 2 1"  
**Peak Name:** "d3-THC(S)" Mass(es): "196.123/133.900 Da"  
**Comment:** "none" **Annotation:** ""

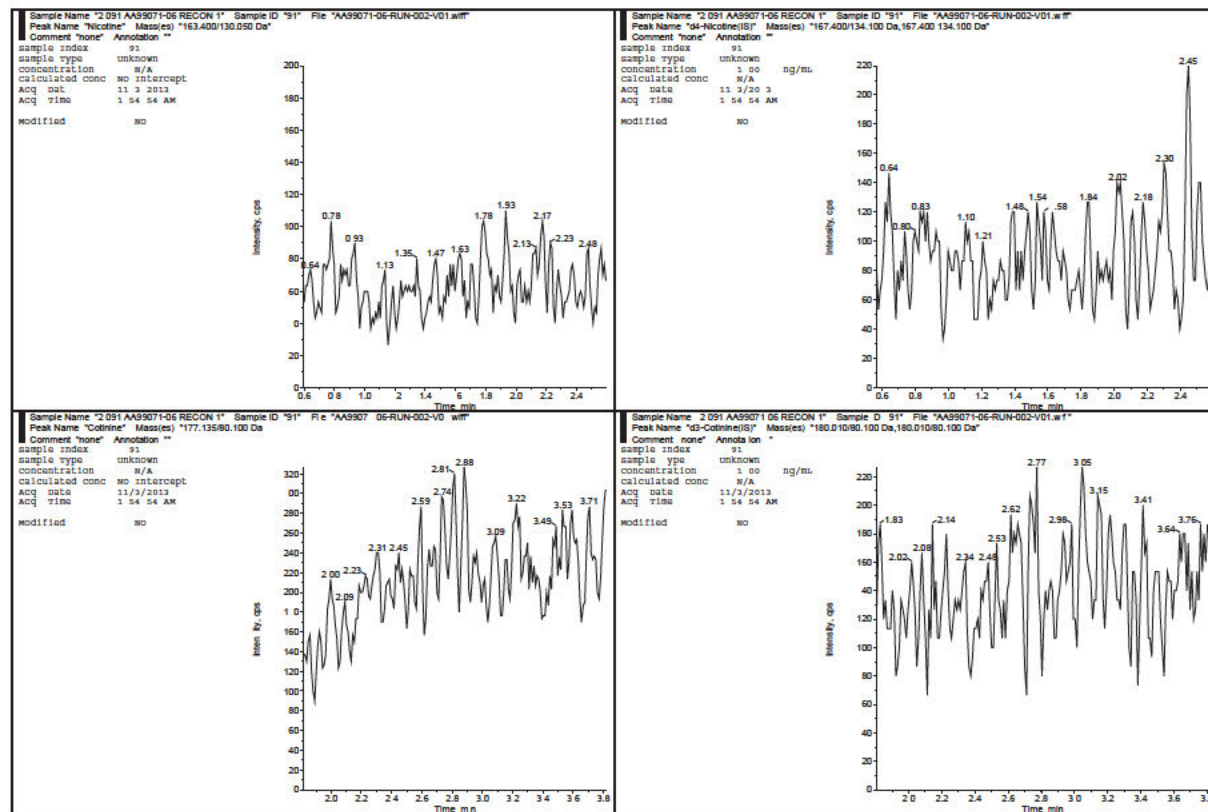
sample index	QC	90
sample type	QC	90
concentration	1.00 ng/mL	
calculated conc	N/A	
Acq date	11/3/2013	
Acq time	1:48:28 AM	

**Modified:** NO  
**Proc Algorithm:** specify parameters MQ III  
**Noise Percentage:** 80  
**Base Sub Window:** 1.00 min  
**Peak Split Factor:** 2  
**Report Largest Peak:** NO  
**Min Peak Height:** 500.00 cps  
**Min Peak Width:** 0.00 sec  
**Smoothing Width:** 3 points  
**RT Window:** 20.0 sec  
**Expected RT:** 2.03 min  
**Use Relative RT:** NO

**Int Type:** valley  
**Retention Time:** 2.00 min  
**Area:** 184330.492 counts  
**Height:** 3.94e+004 cps  
**Start Time:** 1.81 min  
**End Time:** 2.22 min



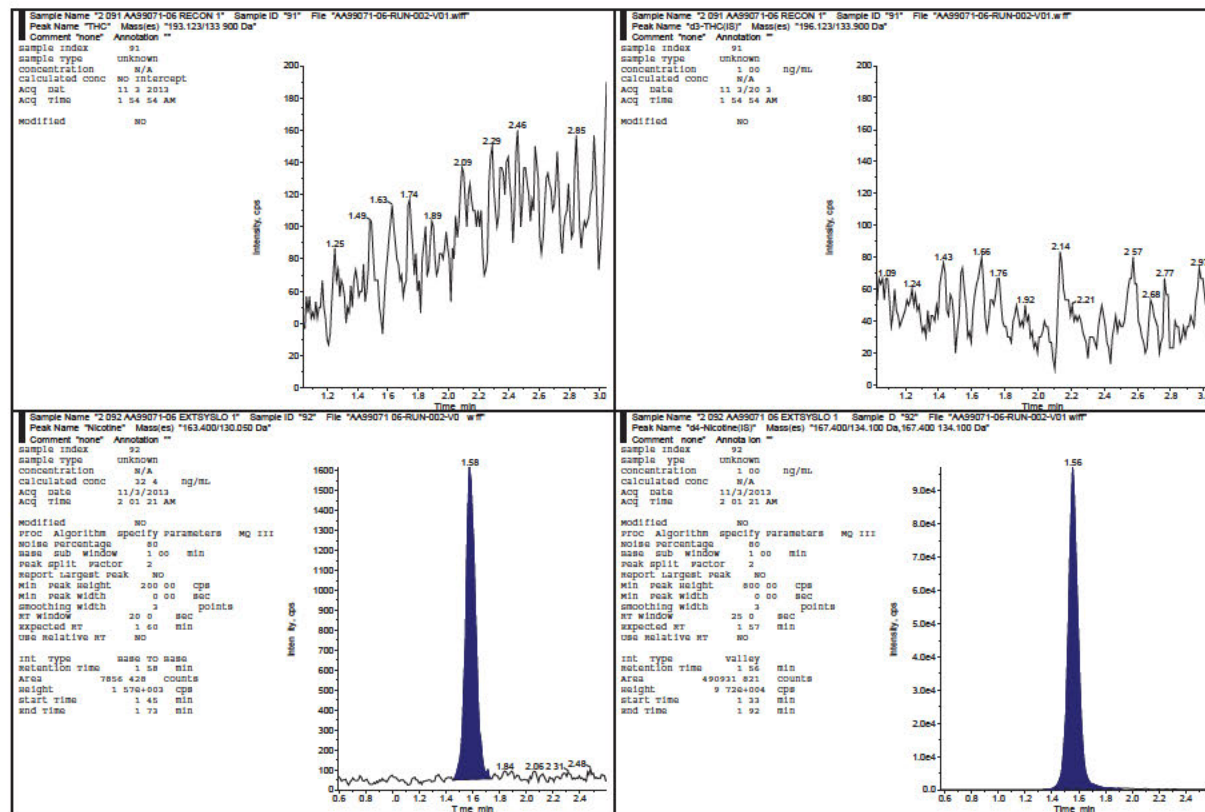
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