Analysis Report

Prepared For: [redacted]

Prepared By: [redacted]

Analytical method

Mobile Phase A: 0.1% Formic Acid in Water

Mobile Phase B: 0.1% Formic Acid in Acetonitrile

Testing Site and Date

Testing Site: [redacted] Testing Date: 08/11/14

Analyte

Name: Testosterone Acetate

Condition while received: Well

Storage Condition after received: Room Temperature

There was no discrepancy when sample received.

Analytical Instrument

Equipment: High-Performance Liquid Chromatography with Mass Spectrometric (MS/MS) Detection

ID Number: HPLC-017/MSMS-023

Software: MassLynx v.4.1

Result (original mass-spectrogram see attachment):

The sample has same Mass Transition with the standard.

The compound in sample is Testosterone Phenylpropionate .

Assay Percent%: 96.0

Analyst: [redacted] Date: 08/12/14

Auditor: [redacted] Date: 08/12/14

Testosterone Acetate
Molecular weight: 330.46

HPLC-023 Condition
Solvent A: 0.1% Formic Acid in Water
Solvent B: 0.1% Formic Acid in Acetonitrile
Mobile Phase: Solvent A:Solvent B (5:95, v/v)
Flow Rate (mL/min): 0.300

MSMS-017 Condition:

Cone (V)	10
Collision (eV)	20
Dwell Time (secs)	0.3
Delay Time (secs)	0.02
Ionization Mode	ES+
Source Temperature (°C)	130
Desolvation Temperature (°C)	350
Cone Gas (L/hr)	78
Desolvation Gas (L/hr)	797
Capillary (kV)	1.5
Hex 1 (V)	40
Aperture (V)	0
Hex 2 (V)	0.5
LM/HM Resolution 1	12.0/12.0
Ion Energy 1 (V)	0.5
LM/HM Resolution 2	12.0/12.0
Ion Energy 2 (V)	1.5
Entrance	-1
Exit	1
Multiplier (V)	650

	Standard	Sample
Mass Transition	331.31>109.14	331.24>109.08

Quantify Compound Summary Report MassLynx 4.1

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Method: [redacted] 11 Aug 2014 12:51:52
Calibration: 11 Aug 2014 12:52:01

Compound name: TA
Correlation coefficient: r = 0.999440, r^2 = 0.998881
Calibration curve: 0.978957 * x + 7.45208
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: Ln

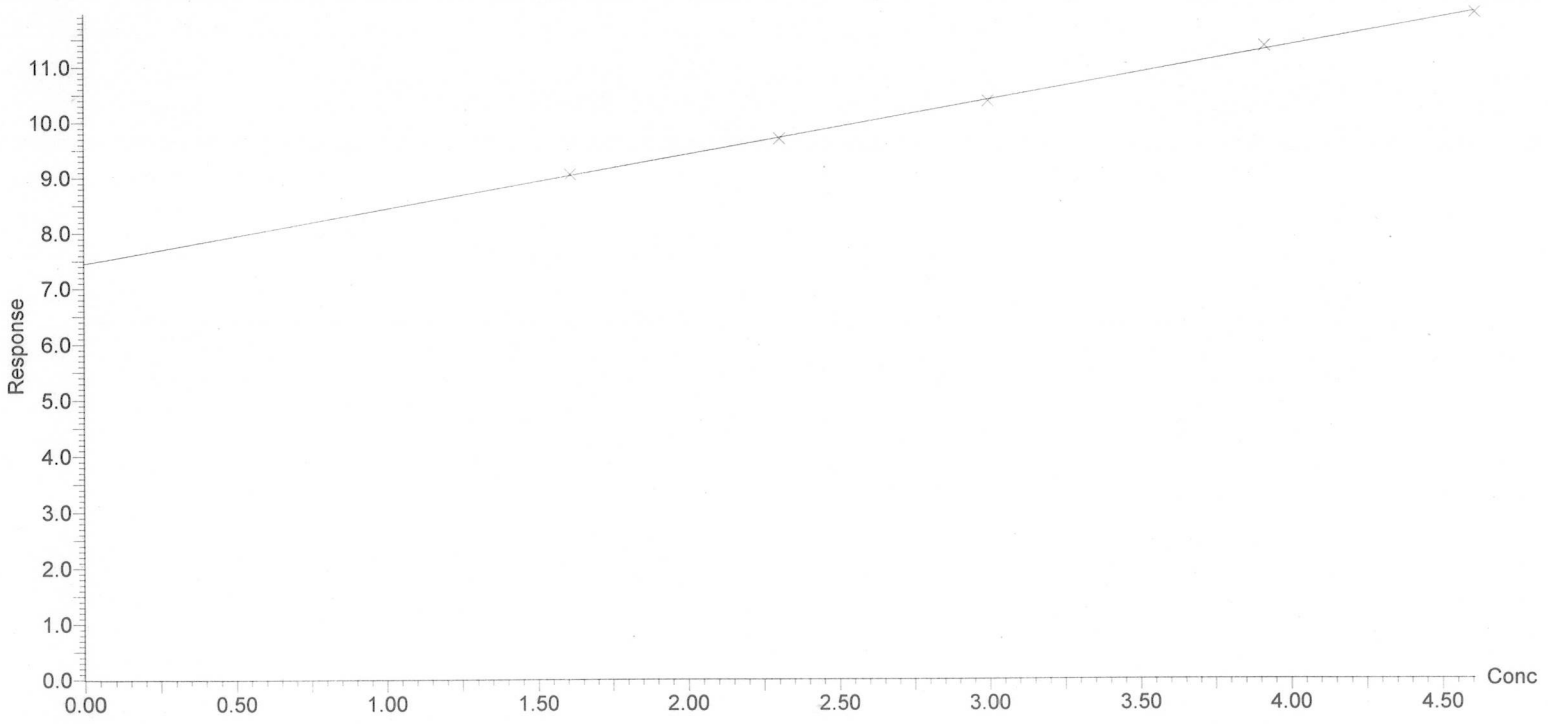
	#	Sample Text	Name	RT	Area	Response	Conc.	%Dev	Primar...	S/N
1	1	TA Std 5.00 ng/mL	AR40001	3.67	8490	8490	5.10	1.95	bb	1169.074
2	2	TA Std 10.0 ng/mL	AR40002	3.68	16045	16045	9.77	-2.33	bb	2110.796
3	3	TA Std 20.0 ng/mL	AR40003	3.68	31452	31452	19.4	-2.87	bb	4424.863
4	4	TA Std 50.0 ng/mL	AR40004	3.68	84351	84351	53.2	6.42	bb	10857.898
5	5	TA Std 100 ng/mL	AR40005	3.70	152063	152063	97.2	-2.85	bb	20928.466
6	6	TA Sample 20.0 ng/mL	AR40006	3.71	31755	31755	19.6		bb	2243.471
7	7	TA Sample 20.0 ng/mL	AR40007	3.73	30483	30483	18.8		bb	4967.367

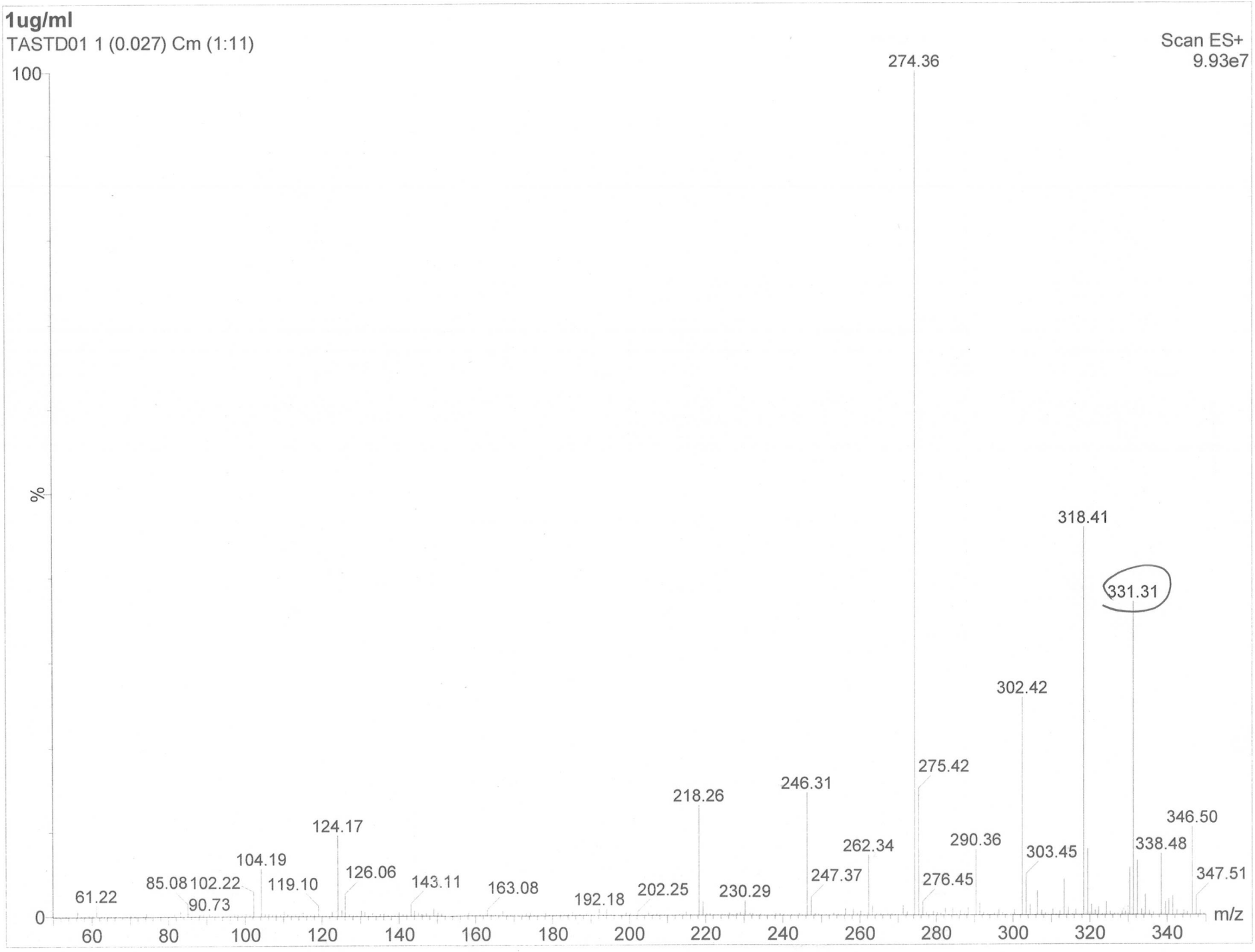
Quantify Compound Summary Report **MassLynx 4.1**

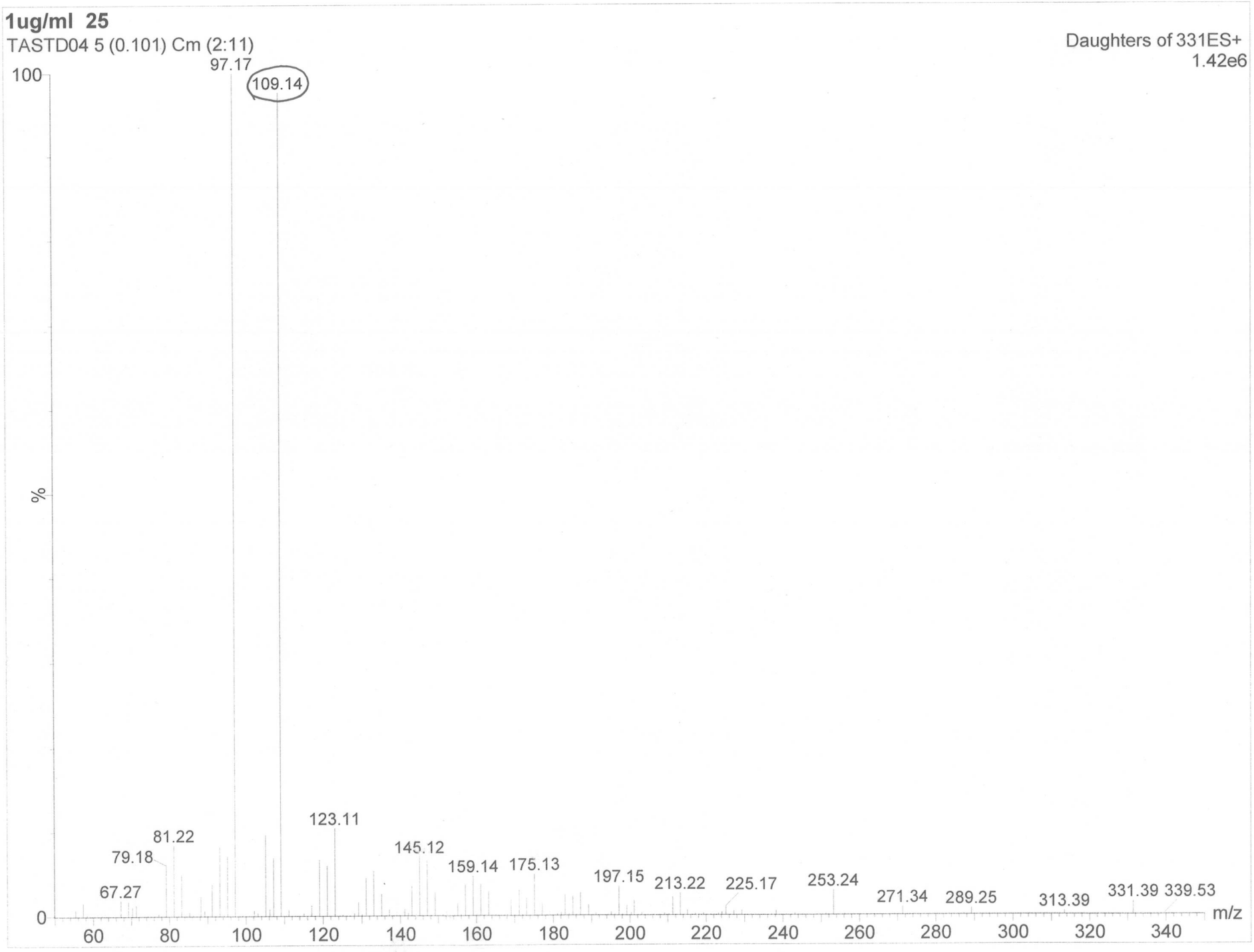
Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

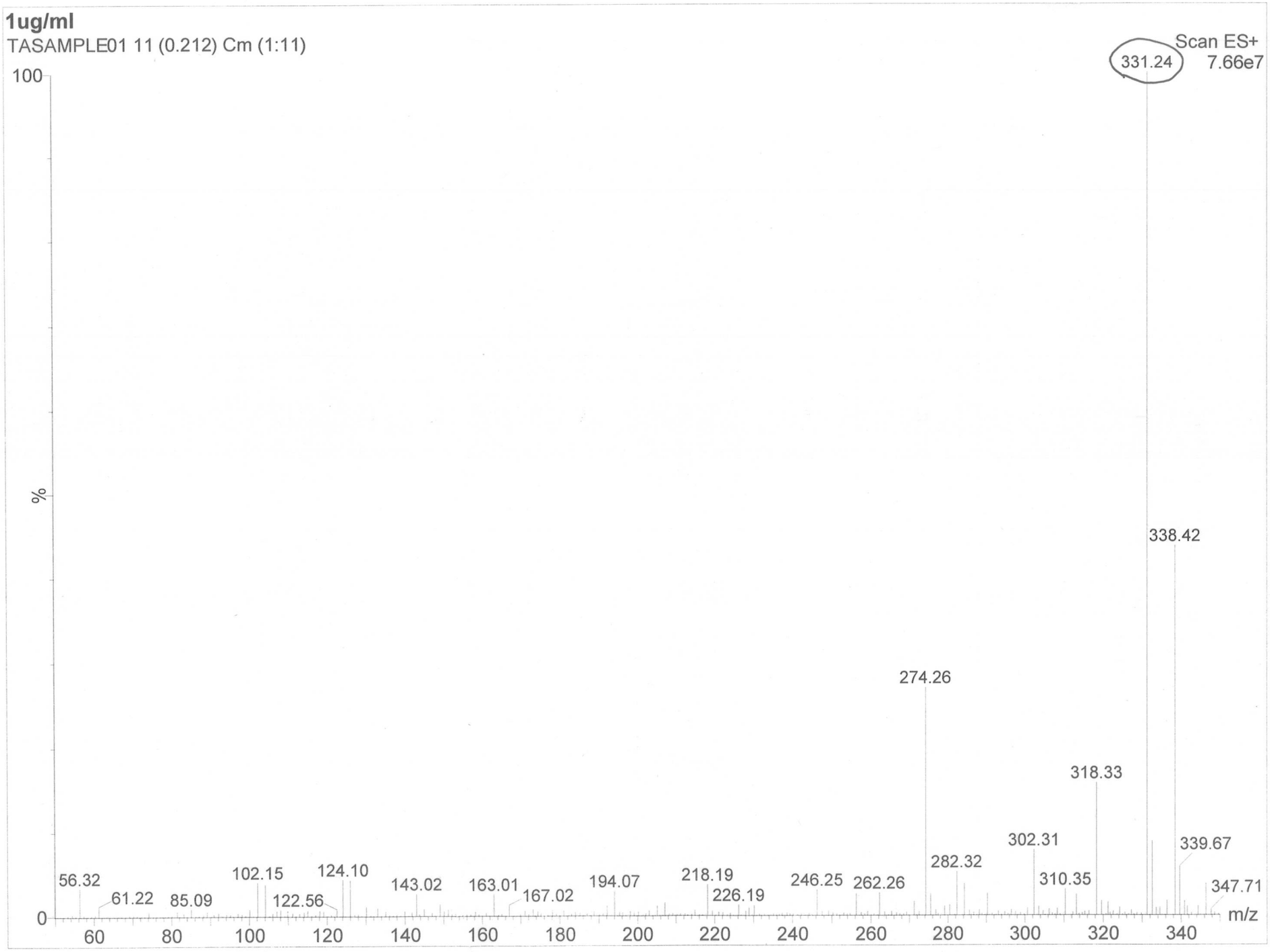
Method: [redacted] 11 Aug 2014 12:06:24
Calibration: 11 Aug 2014 12:06:31

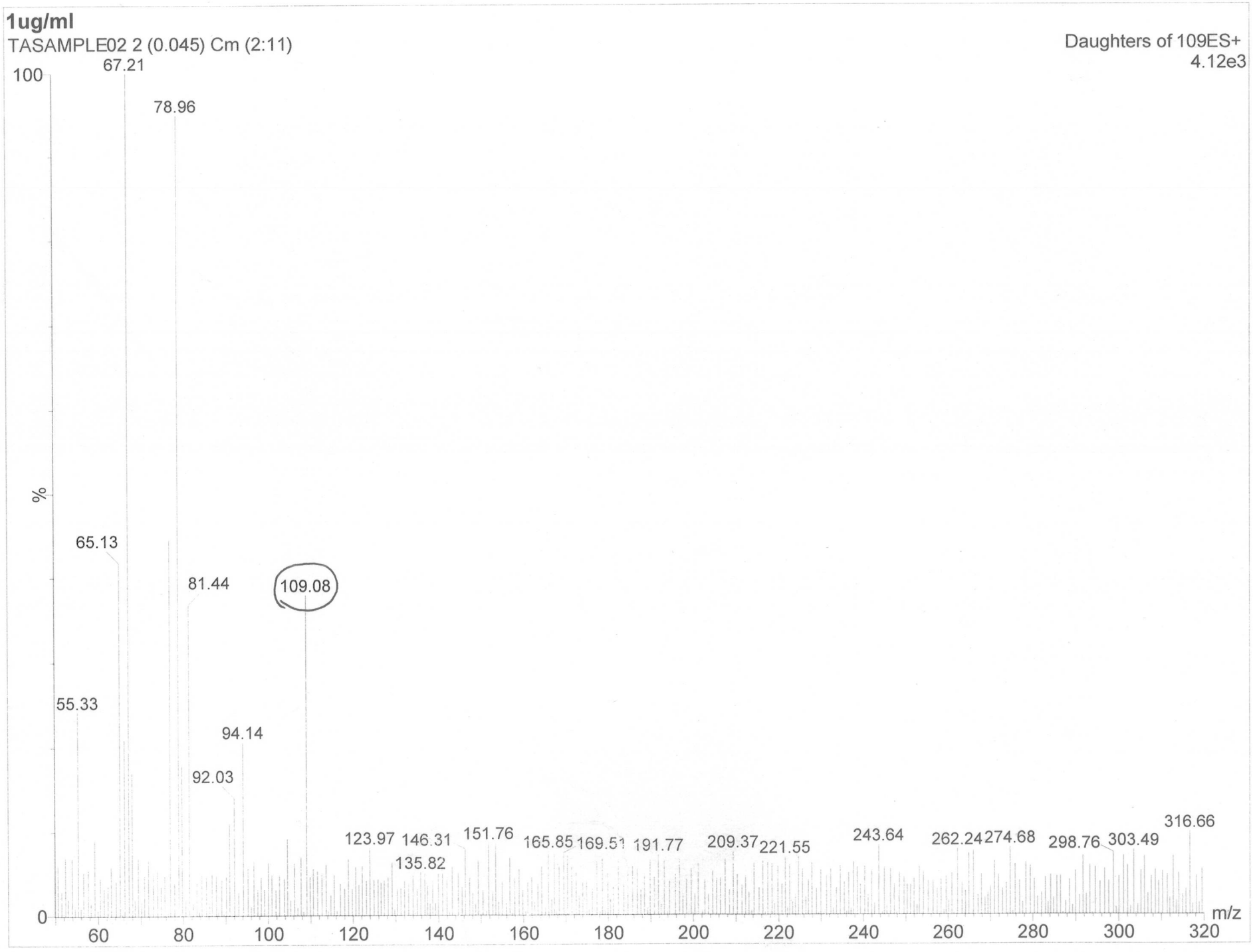
Compound name: TA
Correlation coefficient: r = 0.999440, r^2 = 0.998881
Calibration curve: 0.978964 * x + 7.45206
Response type: External Std, Area
Curve type: Linear, Origin: Exclude, Weighting: Null, Axis trans: Ln




1ug/ml
TASTD01 1 (0.027) Cm (1:11)
Scan ES+
9.93e7
100
%
0
274.36
318.41
331.31
302.42
275.42
246.31
218.26
346.50
290.36
262.34
303.45
338.48
347.51
124.17
104.19
126.06
85.08
102.22
119.10
143.11
163.08
247.37
276.45
61.22
90.73
192.18
202.25
230.29
m/z
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340


1ug/ml 25
TASTD04 5 (0.101) Cm (2:11)
Daughters of 331ES+
1.42e6
100
%
0
97.17
109.14
123.11
81.22
79.18
67.27
145.12
159.14
175.13
197.15
213.22
225.17
253.24
271.34
289.25
313.39
331.39
339.53
m/z
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340


1ug/ml
TASAMPLE01 11 (0.212) Cm (1:11)
Scan ES+
331.24
7.66e7
100
%
0
338.42
274.26
318.33
302.31
339.67
282.32
310.35
347.71
56.32
61.22
85.09
102.15
122.56
124.10
143.02
163.01
167.02
194.07
218.19
226.19
246.25
262.26
m/z
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340


1ug/ml
TASAMPLE02 2 (0.045) Cm (2:11)
Daughters of 109ES+
4.12e3
100
%
0
67.21
78.96
65.13
81.44
109.08
55.33
94.14
92.03
123.97
146.31
135.82
151.76
165.85
169.51
191.77
209.37
221.55
243.64
262.24
274.68
298.76
303.49
316.66
60
80
100
120
140
160
180
200
220
240
260
280
300
320
m/z

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Method: [redacted] **11 Aug 2014 12:51:52**
Calibration: 11 Aug 2014 12:52:01

Name: AR40001, Date: 11-Aug-2014, Time: 11:02:42, ID: W1, Description: TA Std 5.00 ng/mL

TA

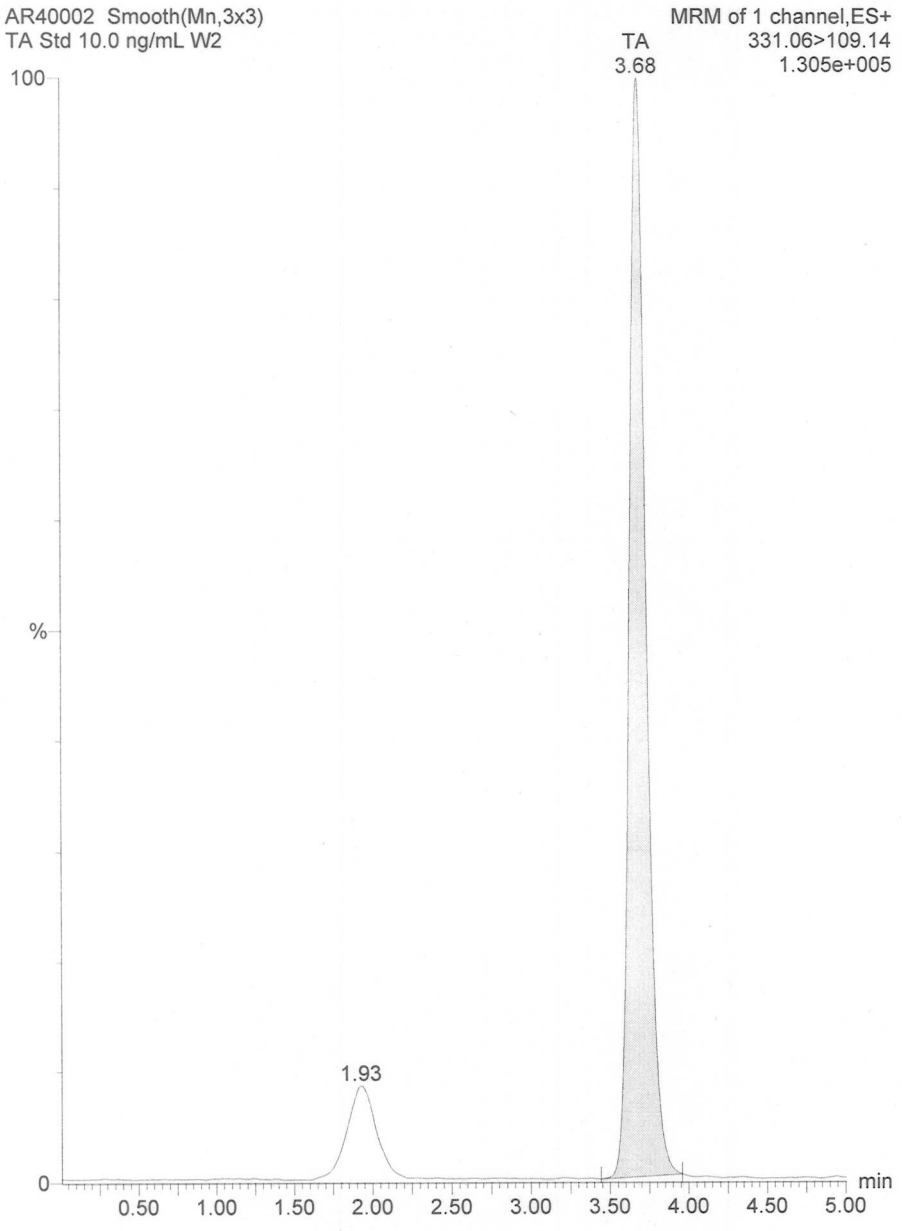
	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.67	8490	8490	bb	1169.074

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40002, Date: 11-Aug-2014, Time: 11:08:23, ID: W2, Description: TA Std 10.0 ng/mL

TA



	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.68	16045	16045	bb	2110.796

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40003, Date: 11-Aug-2014, Time: 11:14:04, ID: W3, Description: TA Std 20.0 ng/mL

TA

	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.68	31452	31452	bb	4424.863

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40004, Date: 11-Aug-2014, Time: 11:19:45, ID: W4, Description: TA Std 50.0 ng/mL

TA

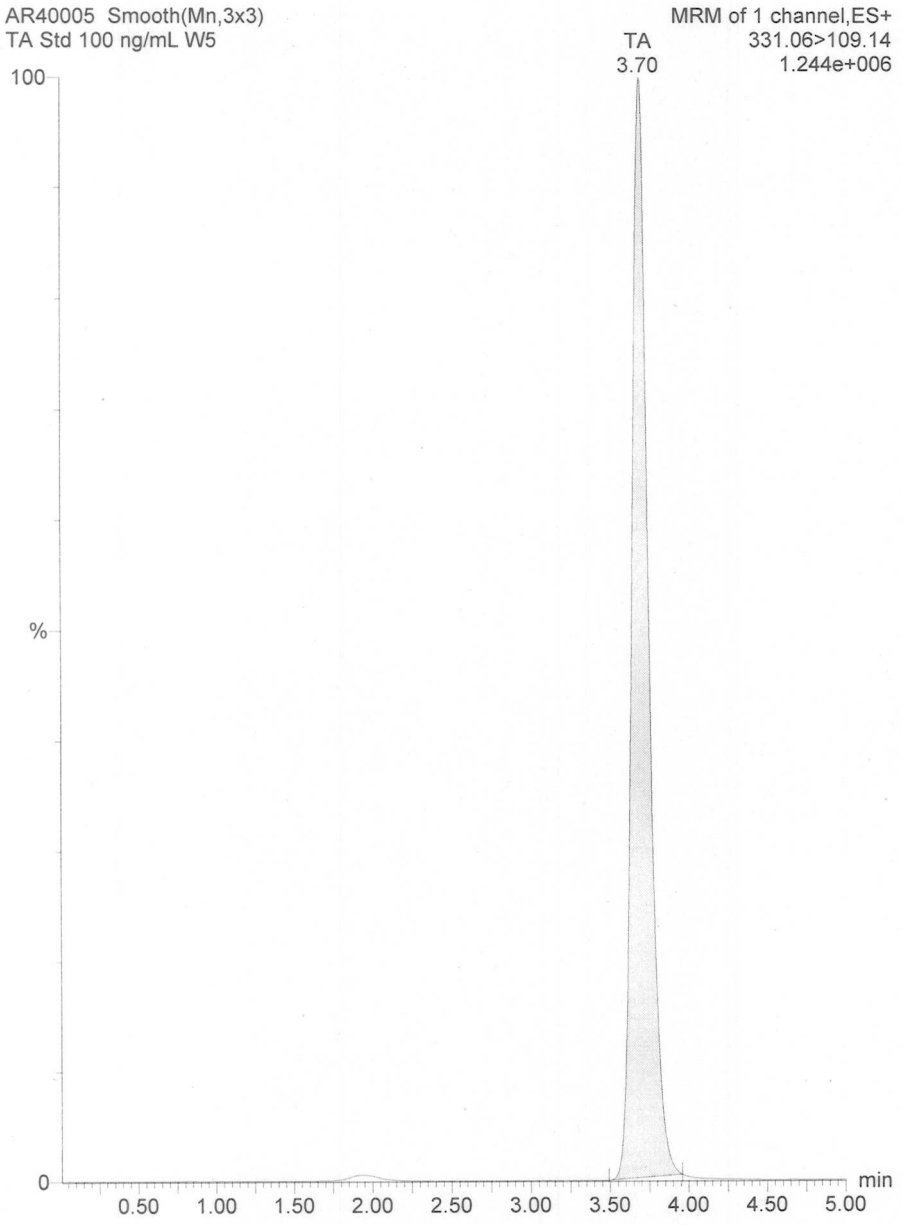
	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.68	84351	84351	bb	10857.898

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40005, Date: 11-Aug-2014, Time: 11:25:26, ID: W5, Description: TA Std 100 ng/mL

TA



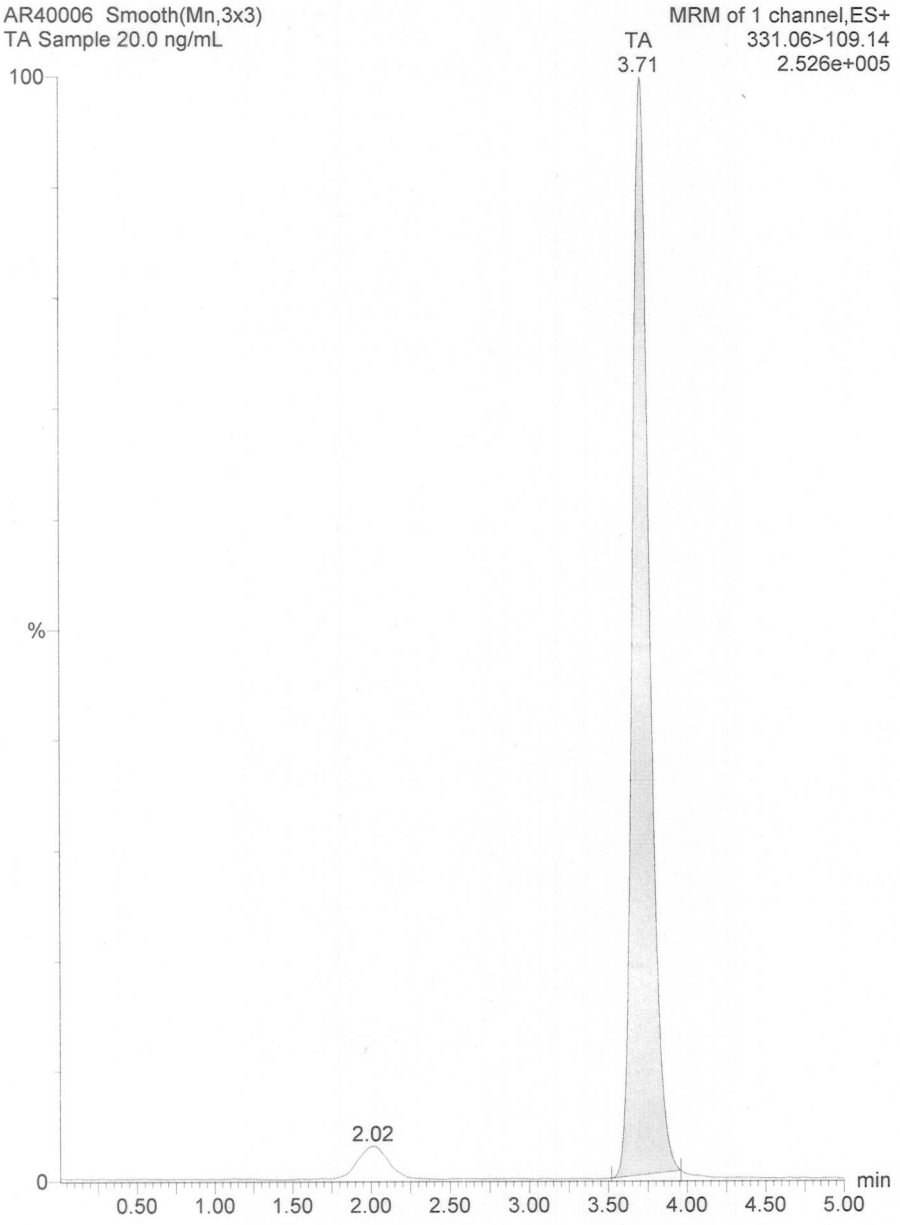
	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.70	152063	152063	bb	20928.466

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40006, Date: 11-Aug-2014, Time: 11:31:07, ID: , Description: TA Sample 20.0 ng/mL

TA



	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.71	31755	31755	bb	2243.471

Quantify Sample Report **MassLynx 4.1**

Dataset: [redacted]
Signature: At Monday, August 11, 2014 12:52:18 PM China Standard Time
By [redacted]
Reason processing data
Printed: At Monday, August 11, 2014 12:54:21 PM China Standard Time
By [redacted]

Name: AR40007, Date: 11-Aug-2014, Time: 11:36:48, ID: , Description: TA Sample 20.0 ng/mL

TA

	#	Name	Trace	RT	Area	Response	Primar...	S/N
1	1	TA	331.06>109.14	3.73	30483	30483	bb	4967.367

AR40 Testosterone Acetate

HPLC Condition

Solvent A:0.1% Formic Acid in Water

Solvent B: 0.1% Formic Acid in Acetonitrile

Mobile Phase: Solvent A:Solvent B (5:95, v/v)

Flow Rate (mL/min): 0.300

Column: Waters Atlantis dC18, 150 × 2.1 mm, 5 µm, Column

	Calculated Conc.(ug/mL)	Mean Actual Conc.(ug/mL)	Theoretical Conc.(ug/mL)	Assay Percent %
S1-1	19.60	19.2	20.0	96.0
S1-2	18.80			