

**SUBMISSION CASE NARRATIVE
NDMA**

MAXXAM L.I.M.S. No. A314211

PROJECT: Applied P&CH Laboratory NDMA Analysis

I. Receipt

Sample was received at Maxxam on April 25 2003.
Sample was received in good condition.

II. Holding Times

- A. Sample preparation: all holding times were met.
- B. Sample analysis: all holding times were met.

III. Method

The method followed was Maxxam's in-house method for NDMA analysis,
Entitled "EXTRACTION & ANALYSIS OF NITROSAMINES AND
NDMA BY HRMS" SOP # TO.1021.08.

IV. Preparation

Sample preparation proceeded normally. Sample was extracted on
April 28, 2003.

V. Analysis

Analysis proceeded normally. Sample was analyzed on
May 1, 2003.

- A. Calibration: All criteria were met.
- B. Mass Resolution: All criteria met.

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- C. Method Blank: All acceptance criteria were met for the method blank and no detects have been observed above the MDL.
- D. Laboratory Control Spike: A LCS and LCSDUP were analyzed with all acceptance criteria met and they had a RPD of 5%.
- E. Matrix spike/Matrix spike duplicate: MS and MSD were analyzed not analyzed with these samples.
- F. Surrogate Standards: All samples and QC samples met surrogate Standard criteria
- G. Samples: Sample analysis proceeded normally.
- H. Glass blank: All acceptance criteria for the glass blank were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Maxxam Analytics Inc., both technically and for completeness, except for any conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the HRMS Strategic Business Unit Operational Manager, as verified by the following signature.



AnnMarie Wright
B.Sc.
Laboratory Operations Manager

This report contains 88 pages.

000002

SUMMARY OF SAMPLES SUBMITTED-NDMA						
(YYYY/MM/DD)						
SOTA SAMPLE NO.	MAXXAM L.I.M.S. ID	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	ASSOCIATED QC LABEL
MW-4-1	A314211-997113	2003/04/21	2003/04/25	2003/04/28	2003/05/01	470707

000003

Glossary of Definitions

NDMA	N-Nitrosodimethylamine
OPR	Ongoing Performance & Recovery Standard (Matrix spike)
PAR	Performance & Recovery Standard (Spiking Mixture)
IPR	Initial Performance & Recovery Standard (Matrix spike)
K-D	Kuderna-Danish concentrator; a device used to concentrate the analytes in a solvent
LIMS	Laboratory Information Management System
MISA	Municipal Industrial Strategy for Abatement
EPA	see USEPA
USEPA	United States Environmental Protection Agency
CEPA	Canadian Environmental Protection Agency
amp	ampere
cm	centimetre
g	gram
h	hour
ID	internal diameter
OD	outside diameter
In.	inch
L	litre
M	Molecular ion
min	minute
mL	mililitre
mm	millimetre
m/z	mass-to-charge ratio
N	Normal; gram molecular weight of solute divided by hydrogen equivalent of solute, per litre of solution
mg	milligram 10^{-3} g
μ g	microgram 10^{-6} g
ng	nanogram 10^{-9} g
pg	picogram 10^{-12} g
fg	femtogram 10^{-15} g
ppm	parts per million (mg/L, mg/kg)
ppb	parts per billion (μ g/L, μ g/kg)
ppt	parts per trillion (ng/L, ng/kg)
ppq	parts per quadrillion (pg/L, pg/kg)
v/v	volume per unit volume
w/v	weight per unit volume
DCM	Dichloromethane (Methylene Chloride)
PFK	Perfluorokerosene
Hires	High Resolution
GC	Gas Chromatography

MS	Mass Spectrometry
HRMS	High Resolution Mass Spectrometry

Acceptance Criteria

Values used by the laboratory in order to determine that a process is in control.

Accuracy It is the degree of agreement of a measured value with the true or expected value of the quantity of concern.

Analyte A Nitrosodimethylamine and/or 1,4-Dioxane parameter tested by a method.

Blind Sample It is a sample submitted for analysis whose composition is known to the submitter but unknown to the analyst. A blind sample is used to test the proficiency of a measurement process.

Calibration Standard (CAL)

Consist of a set of solutions containing known amounts of native & carbon-13-labelled NDMA and/or 1,4-Dioxane. These solutions are used to establish the relationship between the parameter's concentration & MS detector response over the expected range of sample concentration.

Calibration Verification Material

Consists of a calibration standard solution of intermediate level concentration (e.g. CS3), used to assess whether the initial calibration is still valid.

Certified Reference Material

It is a stable, homogenous, and well characterized reference material, one or more of whose property values are certified by repetitive analysis by several operators & different methodologies in one or more qualified laboratories of known precision & accuracy. This material is used to assess the accuracy of a measurement process.

CAS# Chemical Abstracts Compound Registry Number.

Control Sample

It is a reference material of known composition that is analyzed concurrently with test samples to evaluate the accuracy and/or precision of a measurement process.

EDL Estimated detection limit or detection limit.

Glassware Proof Rinse

It is the composite final solvent rinse of each piece of glassware intended for use in processing a batch of samples. Proof rinse samples are analyzed before sample processing begins.

Instrument Detection Limit

It is the smallest concentration/amount of analyte, in a solution containing only the analyte(s) of interest, which produces an instrumental response that satisfies all analyte detection & identification criteria.

IS Internal Standard, a deuterated or ^{13}C -labelled analyte that is added to a sample extract prior to instrument analysis.

Isomer A member of a group of compounds that differ from each other only in terms of locations of a specified number of common substituent atoms, or groups of atoms, on the parent compound.

Method Blank Laboratory control sample using reagents, purified water, soil or relevant matrix known to be free of contaminants.

Method Detection Limit (MDL)

It is the smallest test sample concentration/amount of analyte that produces an instrumental response that satisfies all analyte detection & identification criteria when the sample is processed & analyzed according to the requirements of a specific test method. Reported MDL values reflect the composite effect of sample-related variables as well as method-related variables.

MSDS Material Safety Data Sheet

NIOSH National Institute of Occupational Safety & Health

Precision It is the degree of agreement between the data generated from repetitive measurements under specified conditions. It is generally reported as the standard deviation (SD) or relative standard deviation (RSD).

%D Percent Difference.

Quality Assurance (QA)

It is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality. The system consists of two separate but related activities, quality control & quality assessment.

Quality Control (QC)

It is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of users.

Recovery Standards

They are selected compounds that are added to sample extracts immediately before instrumental analysis so that surrogate (internal standard) recoveries can be calculated.

RPD (%) Relative Percent Difference.

Relative Retention Factor (RRF)

It is the quotient of a target analyte response factor (instrument response per unit weight) divided by the response factor (RF) for its corresponding labelled surrogate. An RRF value remains constant over the range of concentration for which instrument response is linear.

RSD Relative Standard Deviation.

SDS Soxhlet/Dean-Stark extractor, an extraction device applied to the extraction of solid & semi-solid materials.

Spiked blank Laboratory control sample that has been fortified with native analytes of interest.

Stock Solution A solution containing an analyte that is prepared using a reference material traceable to EPA, the National Institute of Science & Technology (NIST), or a source that will attest to the purity & authenticity of the reference material.

Surrogate A compound whose composition and chemical properties are nearly identical to those of target analytes, but which is distinguishable from target analytes by some means of detection (i.e. MS). These include deuterated or ¹³C-labelled analogues of the target analytes, which are added to the sample prior to extraction or clean-up steps.

Window Defining Mixture

It is a solution containing the earliest & latest eluting congeners within each homologous group of target analytes on a specified GC column.

SAMPLE DATA

00008

MW-4-1

Lab Name	Maxxam Analytics Inc.		
Matrix (soil/water):	water		
Sample wt/vol:	980	(g/mL)	mL
Level (low/med)	low		
% Moisture	Not applicable	Decanted (Y/N):	N
Concentrated Extract Volume	1000	(uL)	
Injection Volume	2	(uL)	
Acid Wash Cleanup (Y/N):	N	pH	Not analyzed
Lab Sample ID:	A314211-997113		
Project Name:	JPL		
Lab File ID:	KR23450042		
Date Received:	April 25, 2003		
Date Extracted:	April 28, 2003		
Lab Batch:	470707		
Date Analyzed:	May 1, 2003		
Calib. Ref.:	20030430		
Time Analyzed:	18:52:12		
Dilution Factor:	1		

CAS No.	Compound	Conc. (ug/L)	Qualifier	EDL (ug/L)	RL (ug/L)
62-75-9	NDMA	0.00200	U	0.000370	0.00200
	Surrogate	Recovery (%)	Acceptance Criteria (%)		
000	D6-NDMA	11	10-85		

000009

Quantify Sample Report

Printed: Fri May 02 10:20:55 2003, Page 1 of 3

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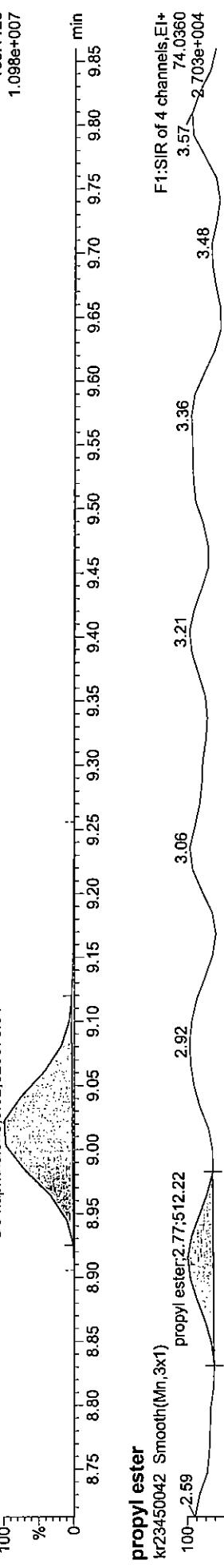
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D8 naphthalene

kr23450042 Smooth(Mn,3x1)

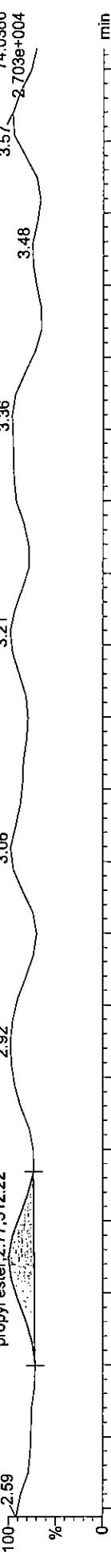
D8 naphthalene:9.02;929376.94



propyl ester

kr23450042 Smooth(Mn,3x1)

propyl ester:2.77;512.22



NDMA

kr23450042 Smooth(Mn,3x1)

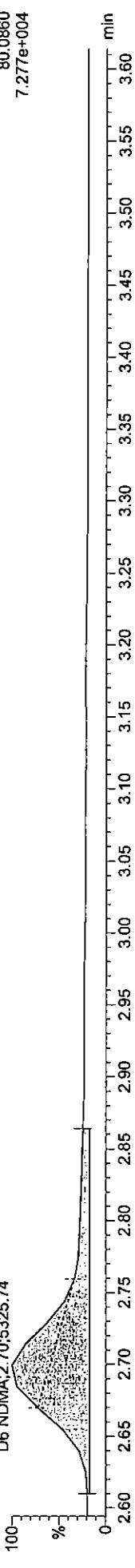
NDMA:2.73;278.41



D6 NDMA

kr23450042 Smooth(Mn,3x1)

D6 NDMA:2.70;5325.74



000010

Quantify Sample Report

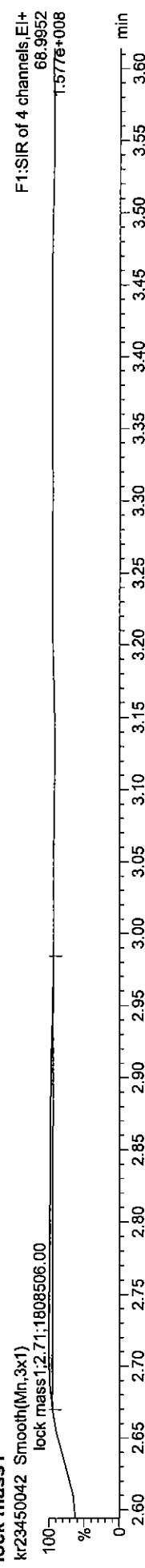
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lock mass1



lock mass5



lock mass5



#	Compound Name	Trace	Abs.Resp.	RT	%R/L	%Rec	ModDate	Divisor	IRRE Mean
1	NDMA	74.0480	278	2.73	-0.34	ND	02-May-03	980	1.673
2	D6 NDMA	80.04860	5326	2.70	1033.04	10.54	02-May-03	1	0.139
3	D8 naphthalene	136.1128	929377	9.02	25000.00	100.00	02-May-03	1	1.000
4	propyl ester	74.0360	512	2.77	0.10	10.25	02-May-03	1	4996.306

$$F_{DL} = 0.37 \text{ u g/L}$$

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LABORATORY BLANK

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WATER LABORATORY METHOD BLANK

Lab Name	Maxxam Analytics Inc.		
Matrix (soil/water):	water		
Sample wt/vol:	1000	(g/mL)	mL
Level (low/med)	low		
% Moisture	Not applicable	Decanted	N
Concentrated Extract Volume	1000 (uL)		
Injection Volume	2	(uL)	
Acid Wash Cleanup (Y/N):	N	pH	Not analyzed
Lab Sample ID:	A314211-470707B		
Project Name:	JPL		
Lab File ID:	KR23450033		
Date Received:	Not Applicable		
Date Extracted:	April 28, 2003		
Lab Batch:	470707		
Date Analyzed:	May 1, 2003		
Calib. Ref.:	20030430		
Time Analyzed:	16:02:59		
Dilution Factor:	1		

CAS No.	Compound	Conc. (ug/L)	Qualifier	EDL (ug/L)	RL (ug/L)
62-75-9	NDMA	0.00200	U	0.000370	0.00200
	Surrogate	Recovery (%)	Acceptance Criteria (%)		
000	D6-NDMA	13		10-85	

000013

Quantify Sample Report

Printed: Fri May 02 09:43:41 2003, Page 1 of 5

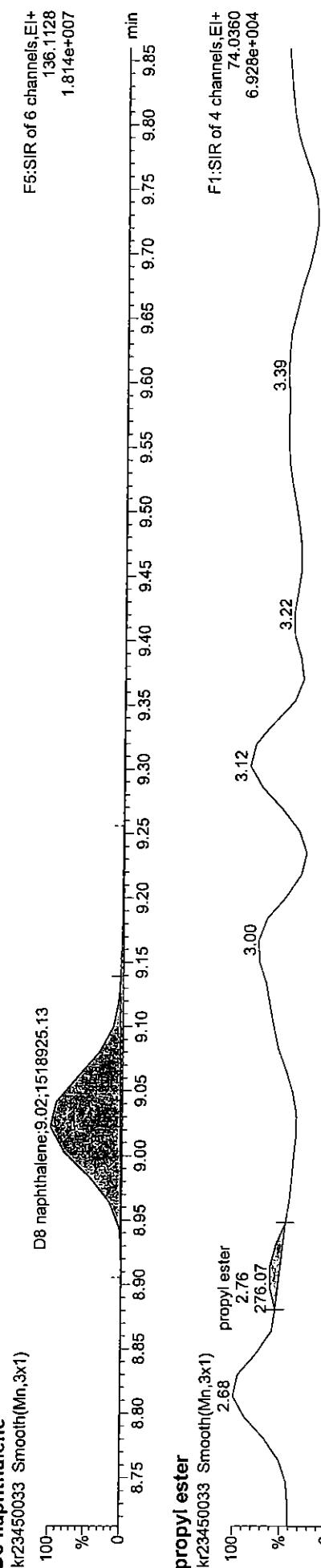
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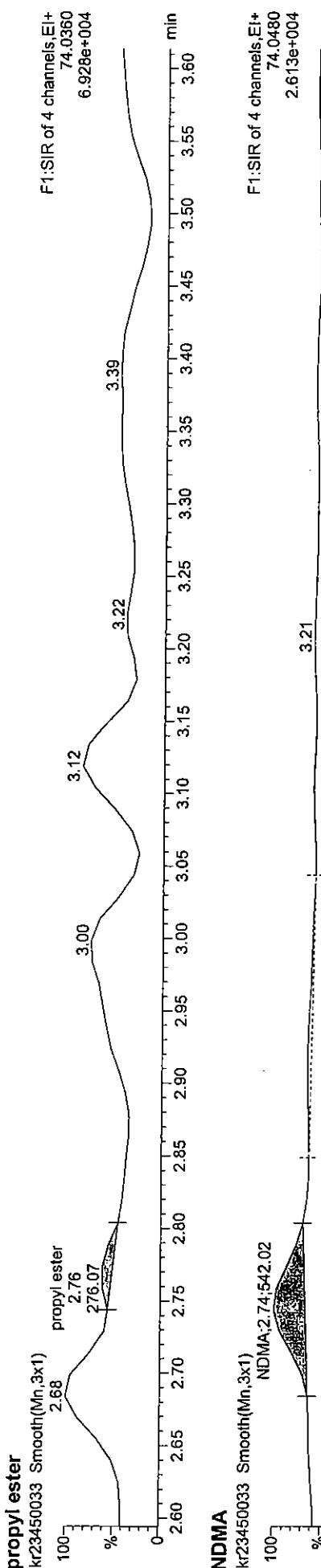
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Name: kr23450033.* , Date: 01-May-2003, Time: 16:02:59, Job: , Description: 470707,blank,N,1,2

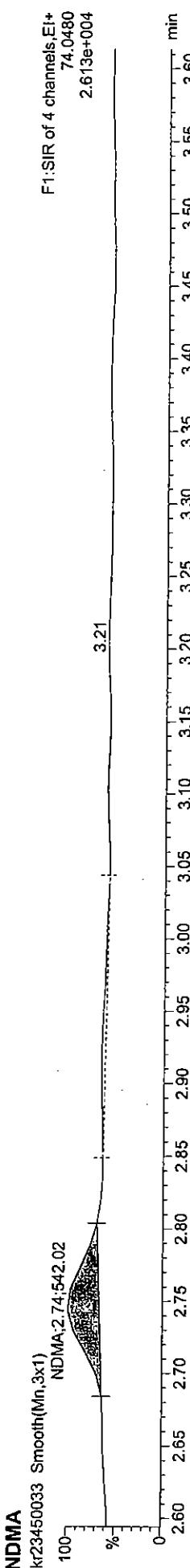
D8 naphthalene



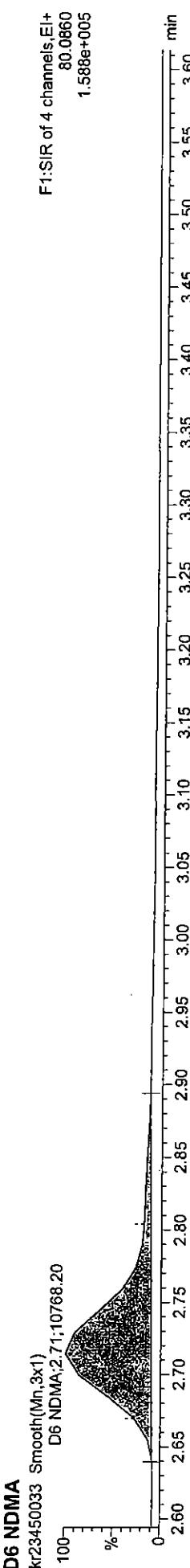
propyl ester



NDMA



D6 NDMA



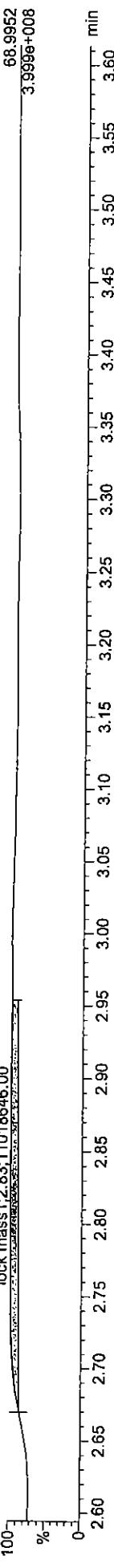
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Printed: Fri May 02 09:43:41 2003, Page 2 of 5

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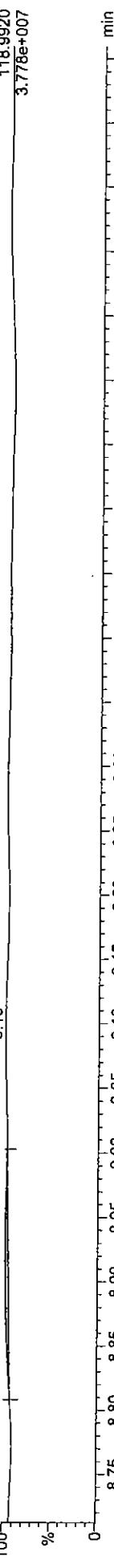
lock mass1

Kr23450033 Smooth(Mn,3x1)



lock mass5

Kr23450033 Smooth(Mn,3x1)



000015

LABORATORY CONTROL SAMPLE

000016

WATER LABORATORY SPIKED BLANK

Lab Name	Maxxam Analytics Inc.		
Matrix (soil/water):	water		
Sample wt/vol:	1000	(g/mL)	mL
Level (low/med)	low		
% Moisture	Not applicable	Decanted (Y/N):	N
Concentrated Extract Volume	1000	(uL)	
Injection Volume	2	(uL)	
Acid Wash Cleanup (Y/N):	N	pH	Not analyzed
Lab Sample ID:	A314211-470707S		
Project Name:	JPL		
Lab File ID:	KR23450031		
Date Received:	Not Applicable		
Date Extracted:	April 28, 2003		
Lab Batch:	470707		
Date Analyzed:	May 1, 2003		
Calib. Ref.:	20030430		
Time Analyzed:	15:30:14		
Dilution Factor:	1		

CAS No.	Compound	Extract Conc. (ug/L)	Spike Level (ug/L)	Recovery (%)	Acceptance Criteria (%)
62-75-9	NDMA	0.00560	0.00500	112	10-173
	Surrogate	Recovery (%)		Acceptance Criteria (%)	
000	D6-NDMA	10		10-85	

000017

Quantify Sample Report

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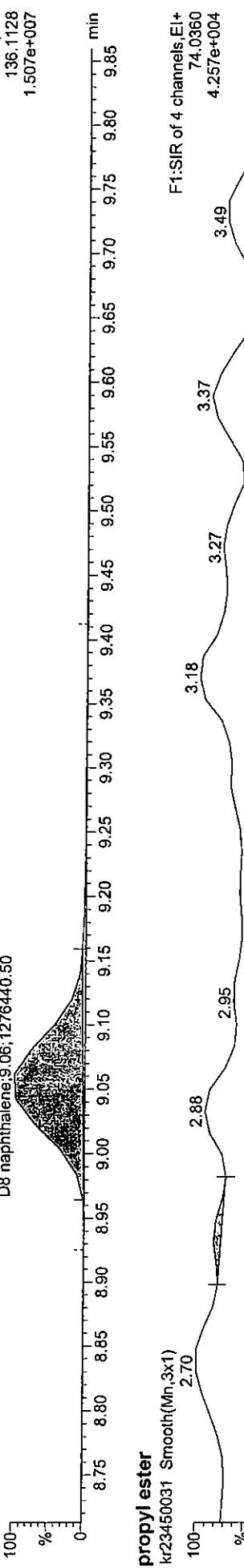
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Calibration: C:\MASSLYNX\Default\pro\CURVEDB\ndmaccali2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450031.* , Date: 01-May-2003, Time: 15:30:14, Job: , Description: 470707,spike,N,1,2

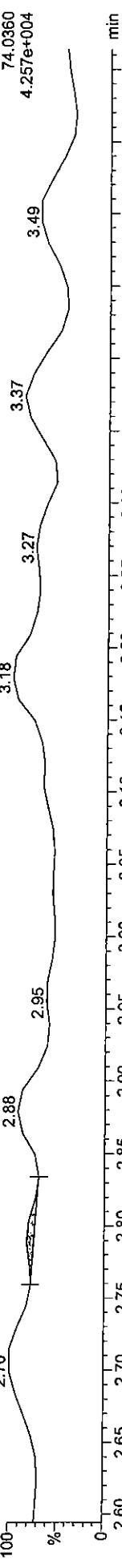
D8 naphthalene

kr23450031 Smooth(Mn,3x1)



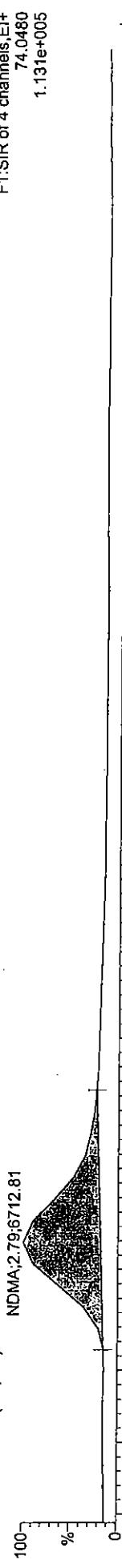
propyl ester

kr23450031 Smooth(Mn,3x1)



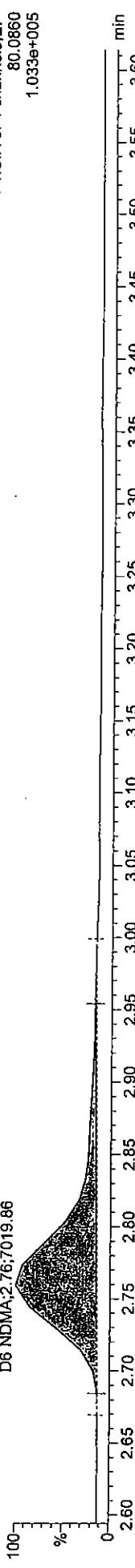
NDMA

kr23450031 Smooth(Mn,3x1)



D6 NDMA

kr23450031 Smooth(Mn,3x1)

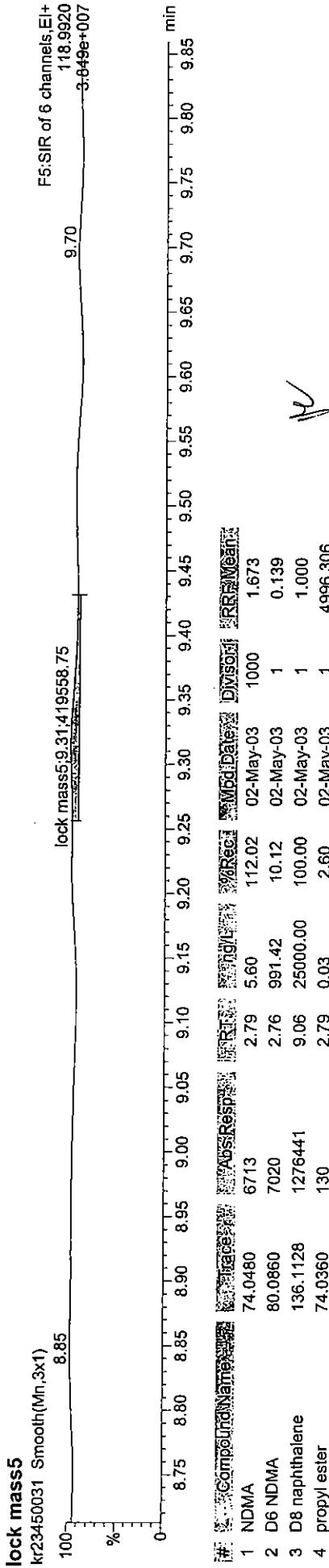
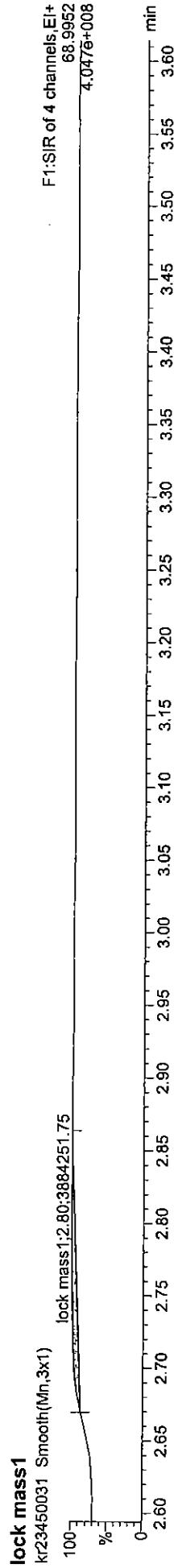


000018

Quantify Sample Report

Printed: Eri May 02 09:25:32 2003 Page 2 of 5

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#	Component Name	Trace ID	Sample Type	PPM	% Rec.	Test Date	Division	Comments
1	NDMA	74.0480	6713	2.79	5.60	112.02	02-May-03	1000 1.673
2	D6 NDMA	80.0860	7020	2.76	991.42	10.12	02-May-03	1 0.139
3	D8 naphthalene	136.1128	1276441	9.06	25000.00	100.00	02-May-03	1 1.000
4	propyl ester	74.0360	130	2.79	0.03	2.60	02-May-03	1 4996 306

000019

WATER LABORATORY SPIKED BLANK DUPLICATE

Lab Name	Maxxam Analytics Inc.		
Matrix (soil/water):	water		
Sample wt/vol:	1000	(g/mL)	mL
Level (low/med)	low		
% Moisture	Not applicable	Decanted (Y/N):	N
Concentrated Extract Volume	1000	(uL)	
Injection Volume	2	(uL)	
Acid Wash Cleanup (Y/N):	N	pH	Not analyzed
Lab Sample ID:	A314211-470707SD		
Project Name:	JPL		
Lab File ID:	KR23450032		
Date Received:	Not Applicable		
Date Extracted:	April 28, 2003		
Lab Batch:	470707		
Date Analyzed:	May 1, 2003		
Calib. Ref.:	20030430		
Time Analyzed:	15:44:12		
Dilution Factor:	1		

CAS No.	Compound	LCS Extract Conc (ug/L)	Spike Level (ug/L)	Recovery (%)	%RPD LCS/LCSD	Acceptance Criteria (%)
62-75-9	NDMA	0.00534	0.00500	107	5	25
	Surrogate	Recovery (%)		Acceptance Criteria (%)		
000	D6-NDMA	10		10-85		

000020

Quantify Sample Report

Printed: Fri May 02 09:25:32 2003, Page 3 of 5

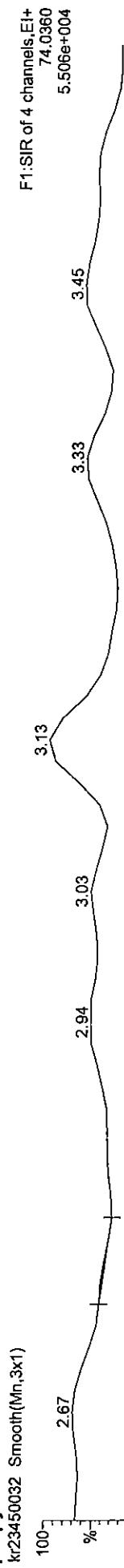
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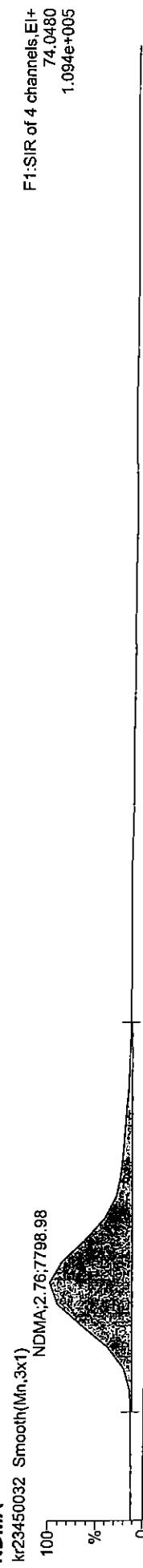
D8 naphthalene



propyl ester



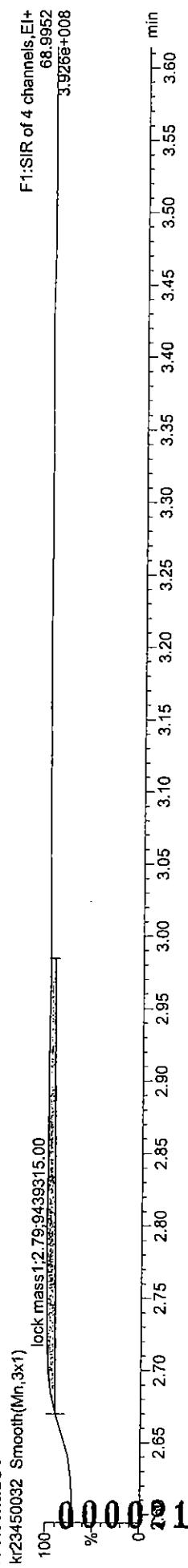
NDMA



D6 NDMA



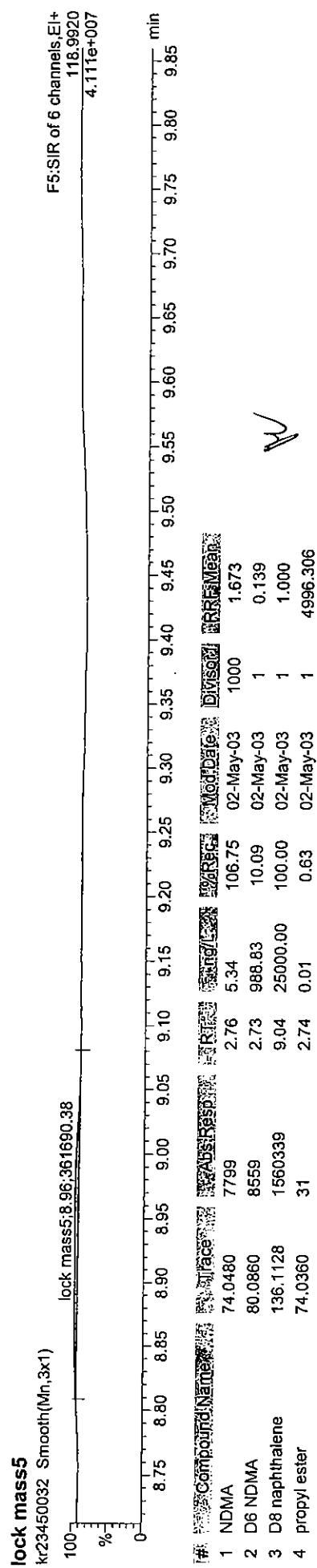
lock mass1



Quantify Sample Report

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000022

GLASS BLANK

00023

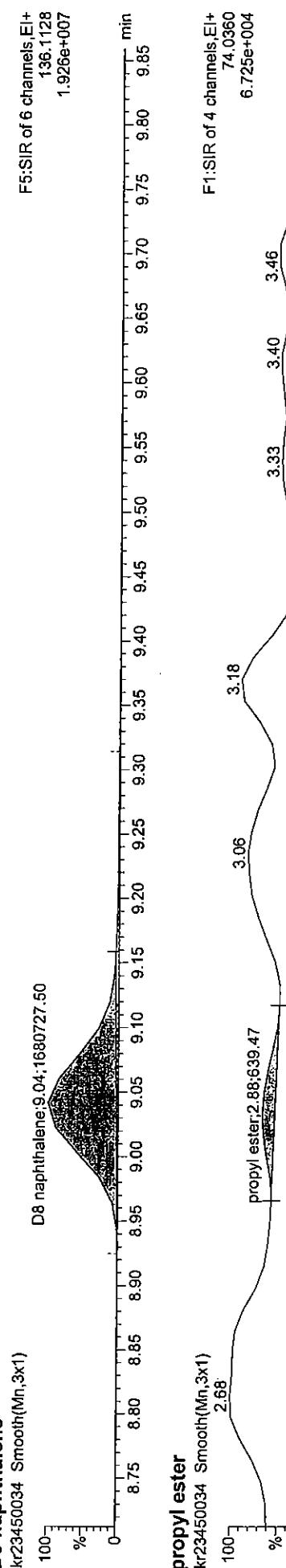
Quantify Sample Report

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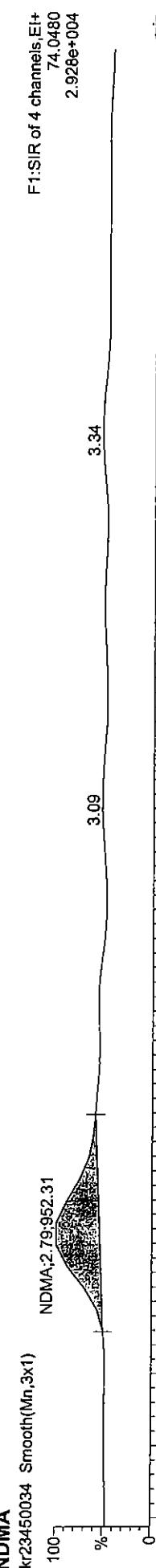
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Name: kr23450034.* Date: 01-May-2003, Time: 16:21:47, Job: , Description: glass blank (20030428)

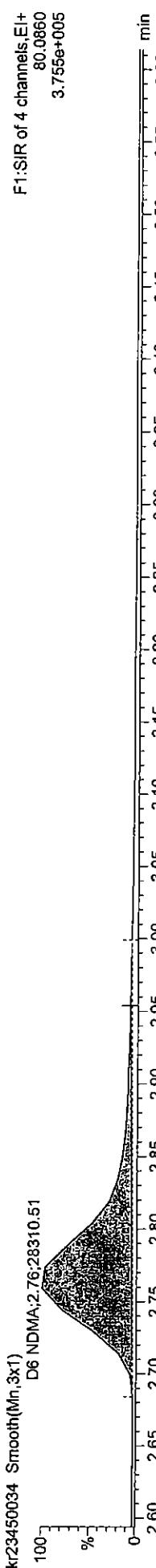
D8 naphthalene



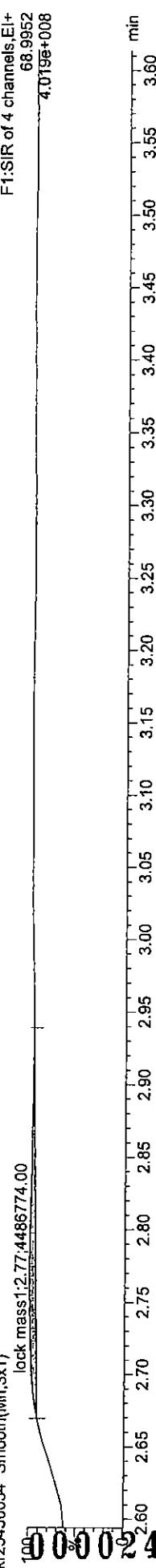
NDMA



D6 NDMA



lock mass1



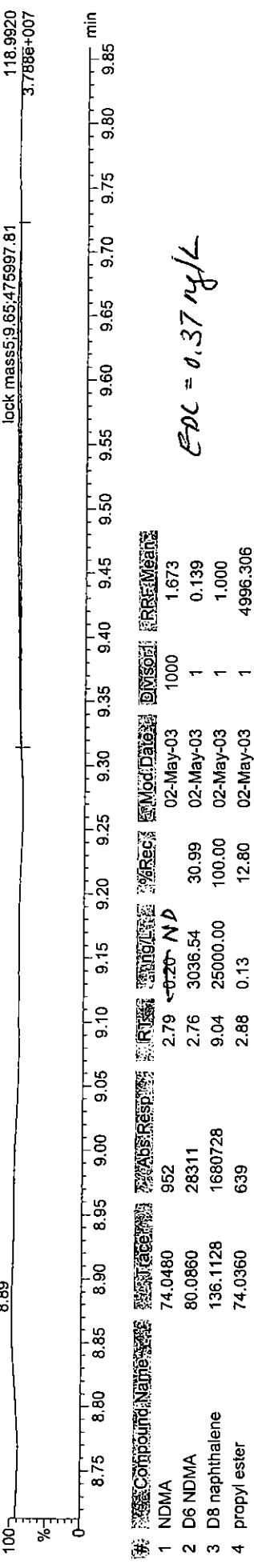
Quantify Sample Report

Printed: Fri May 02 09:43:41 2003, Page 4 of 5

Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Blks_Spkst20030428\blks_20030428_Rinj.qld, Time: Fri May 02 09:43:05 2003

lock mass5

Kr23450034 Smooth(Mn,3x1) 8.89



	Compounds	Name	RT	REC	REC%	REC%	Mod. Data	DMSO	PERMeth
1	NDMA	74.0480	952	2.79	<0.20	N.D	02-May-03	1000	1.673
2	D6 NDMA	80.0860	28311	2.76	3036.54	30.99	02-May-03	1	0.139
3	D8 naphthalene	136.1128	1680728	9.04	25000.00	100.00	02-May-03	1	1.000
4	propyl ester	74.0360	639	2.88	0.13	12.80	02-May-03	1	4996.306

$$EPC = 0.37 \text{ mg/L}$$

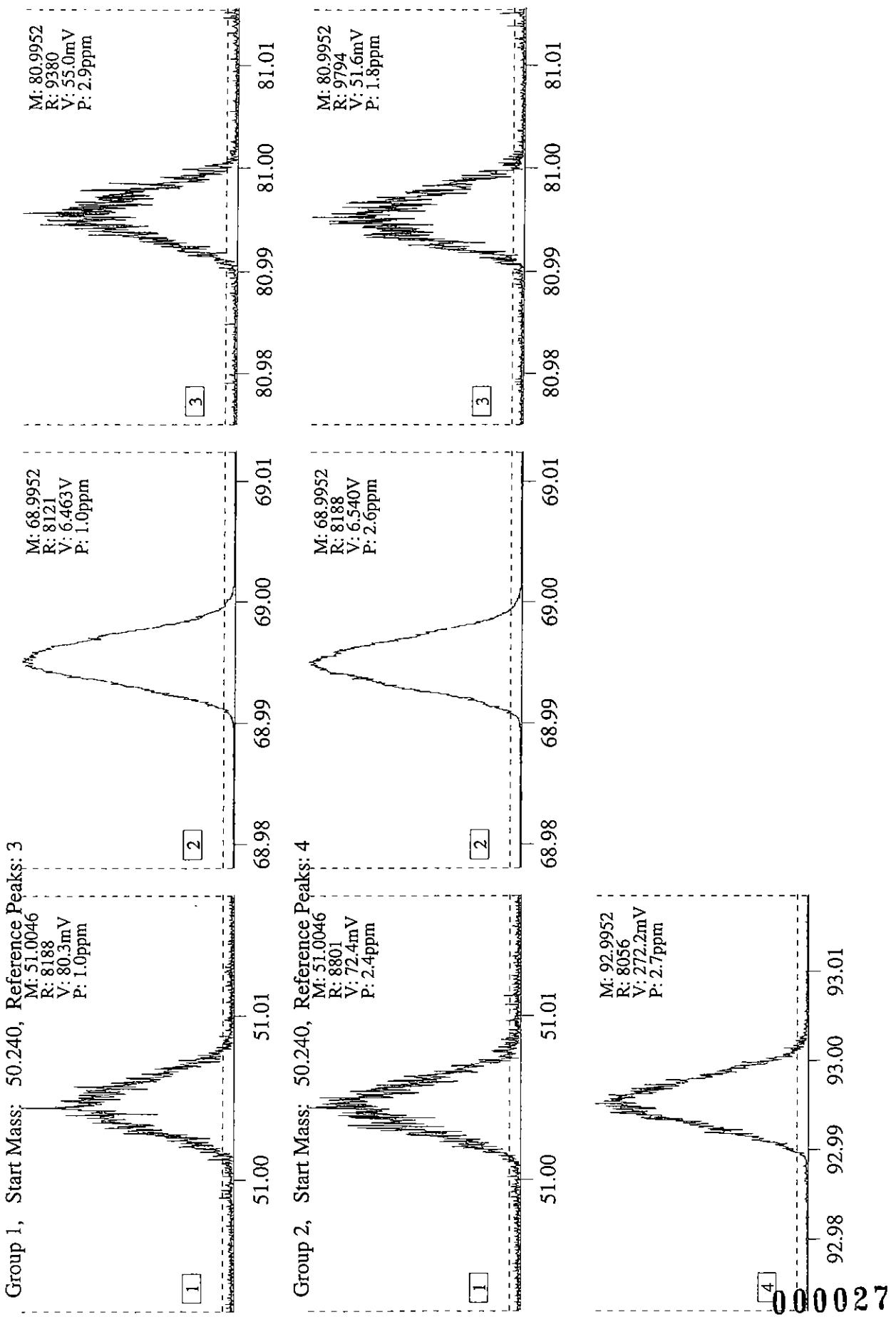
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000025

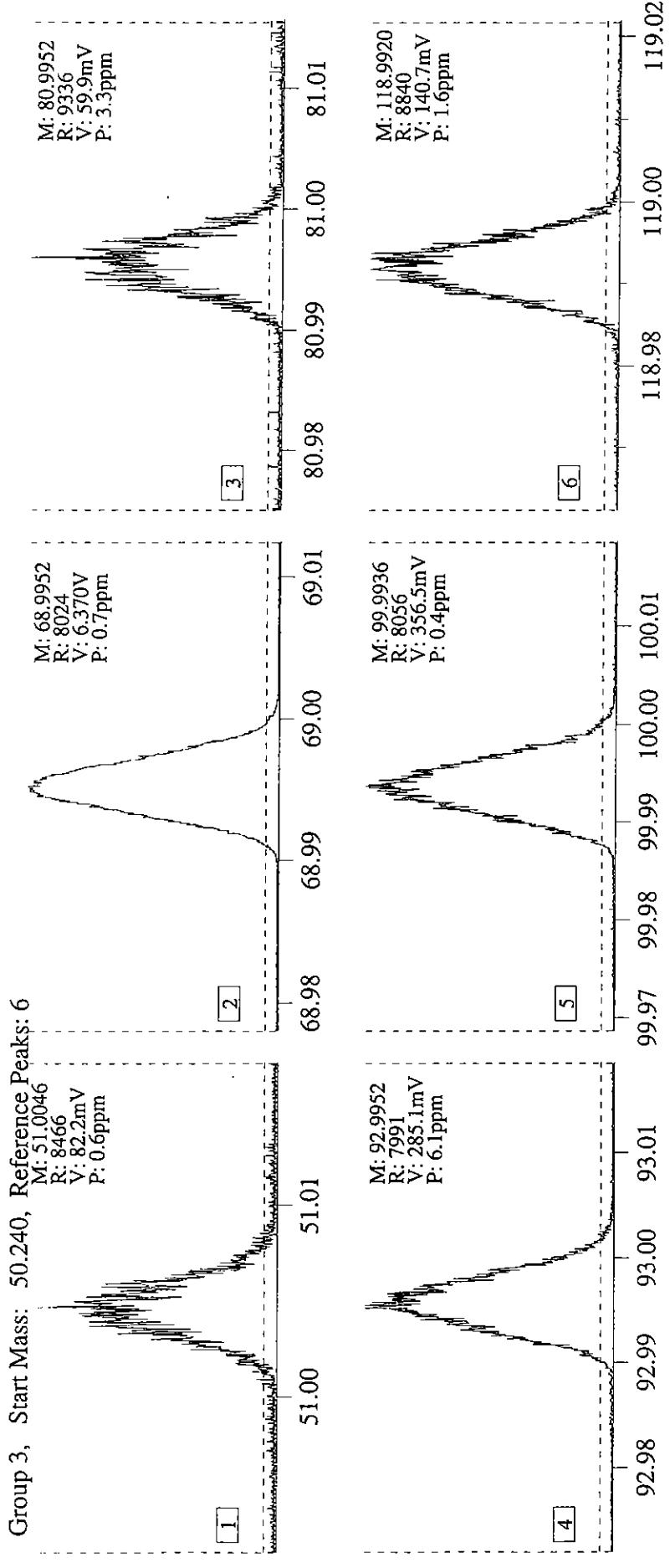
MASS RESOLUTION CALIBRATION

000026

S.I.M. Calibration 30-Apr-2003 17:54, Run: kr23440031, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm

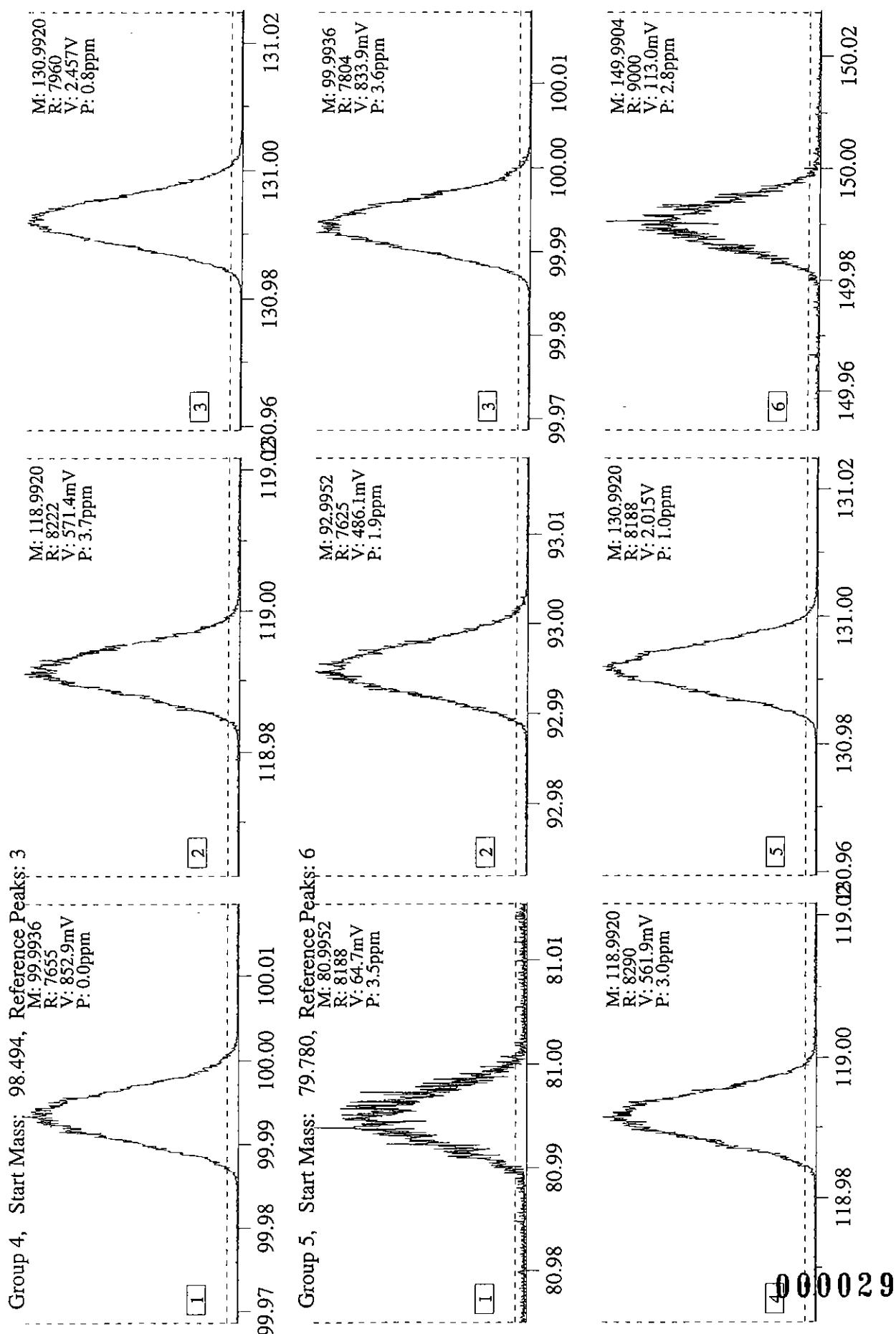


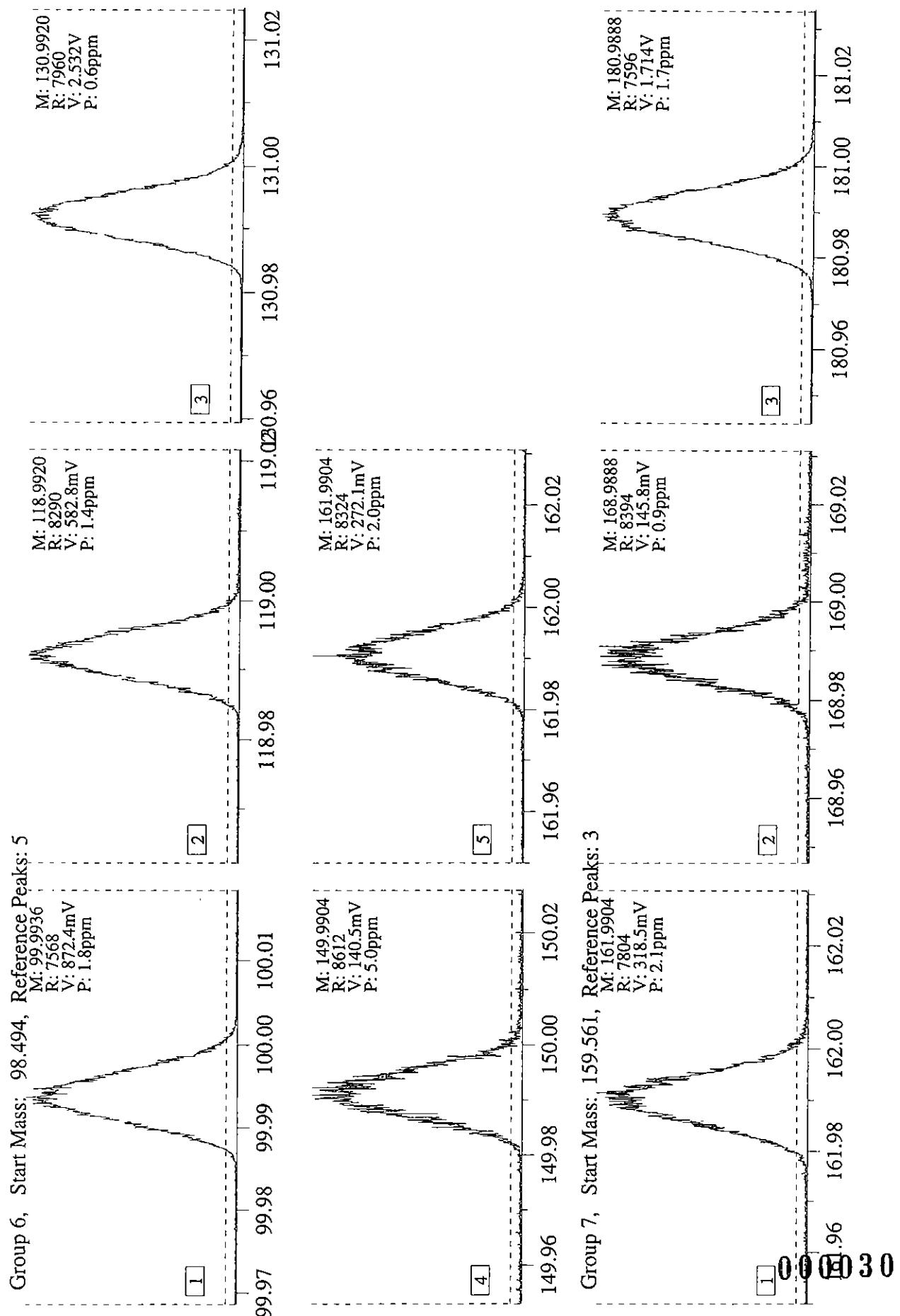
S.I.M. Calibration 30-Apr-2003 17:54, Run: kr23440031, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



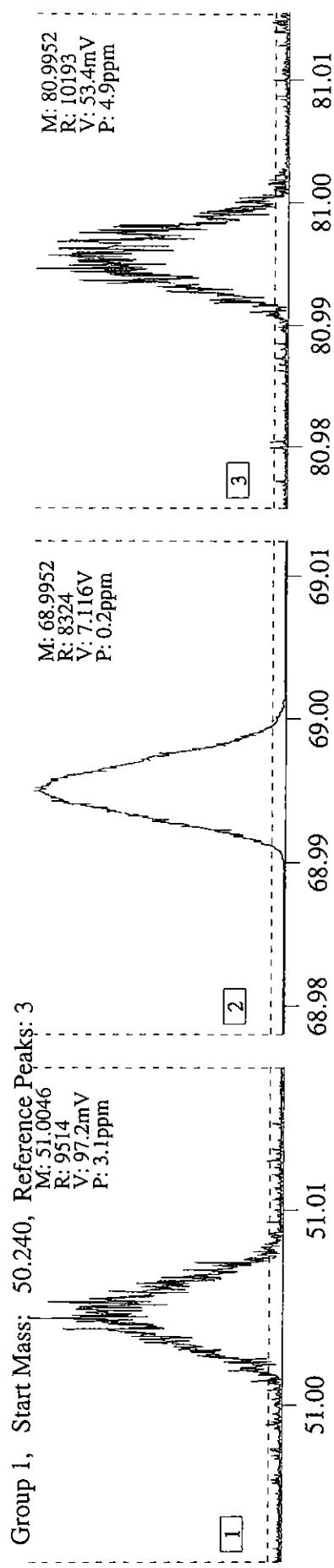
000028

S.I.M. Calibration 30-Apr-2003 17:54, Run: kr23440031, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



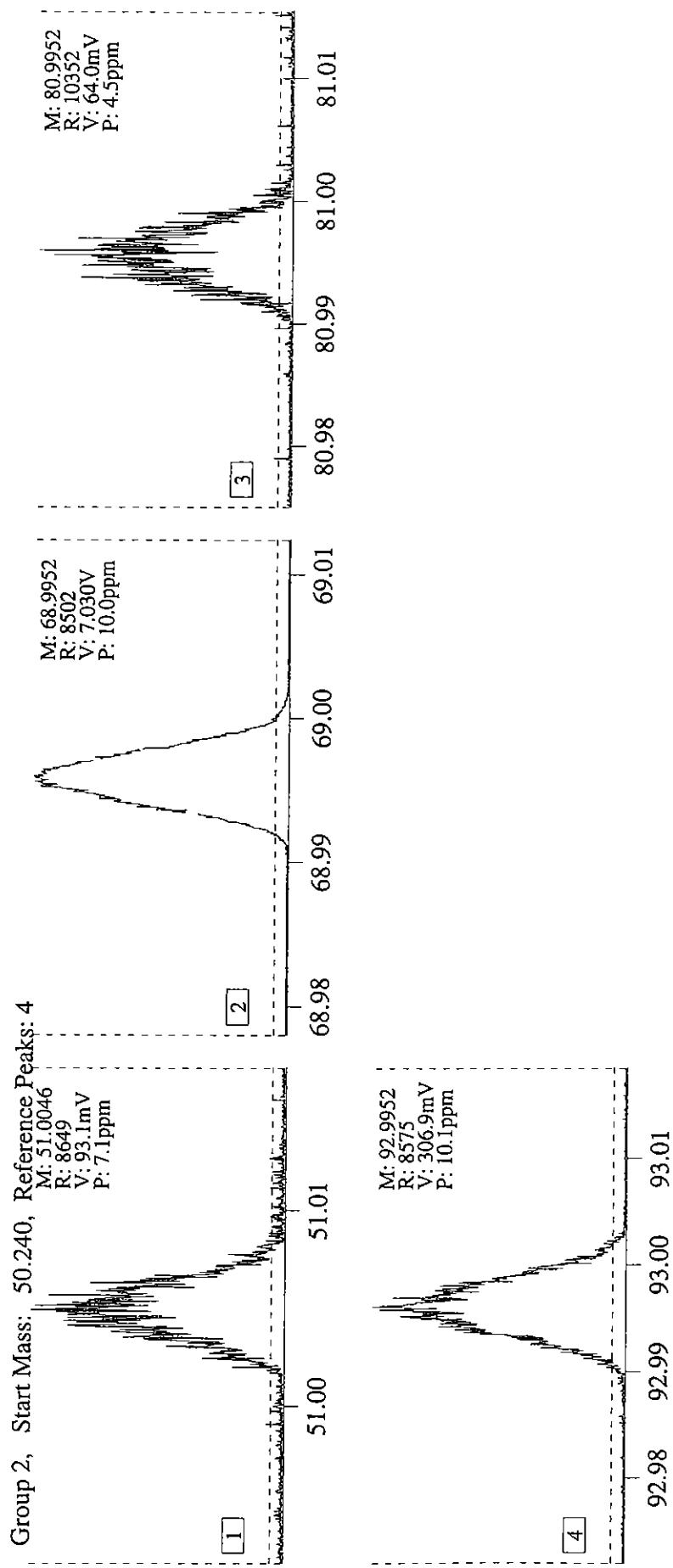


S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



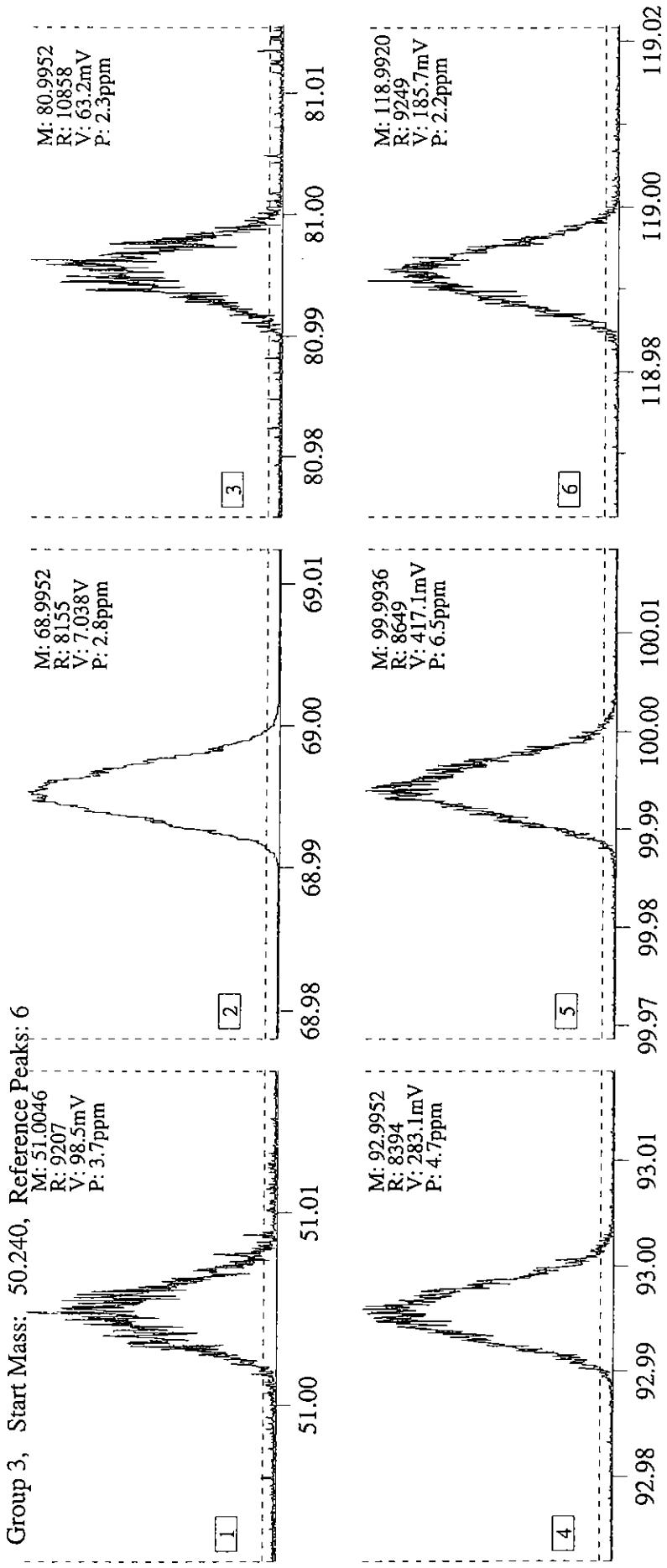
000031

S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



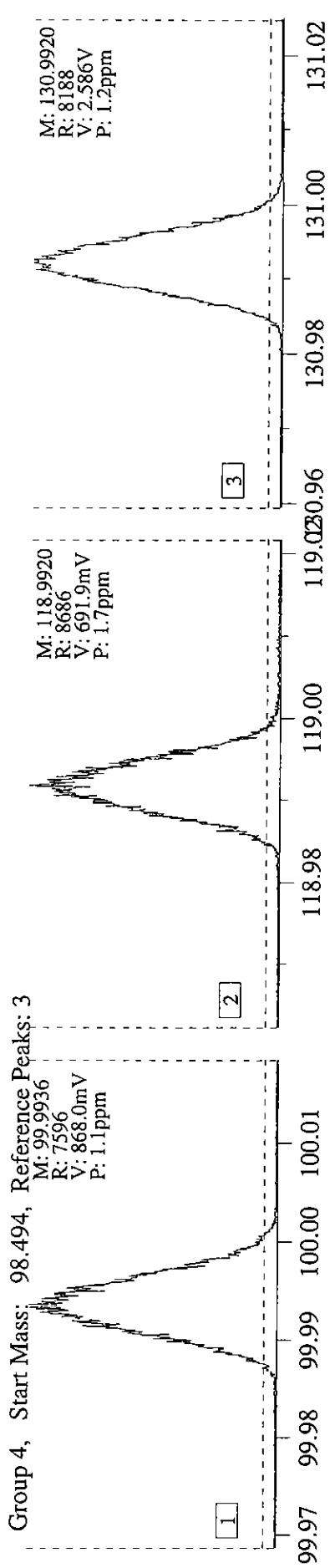
000032

S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



000033

S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm

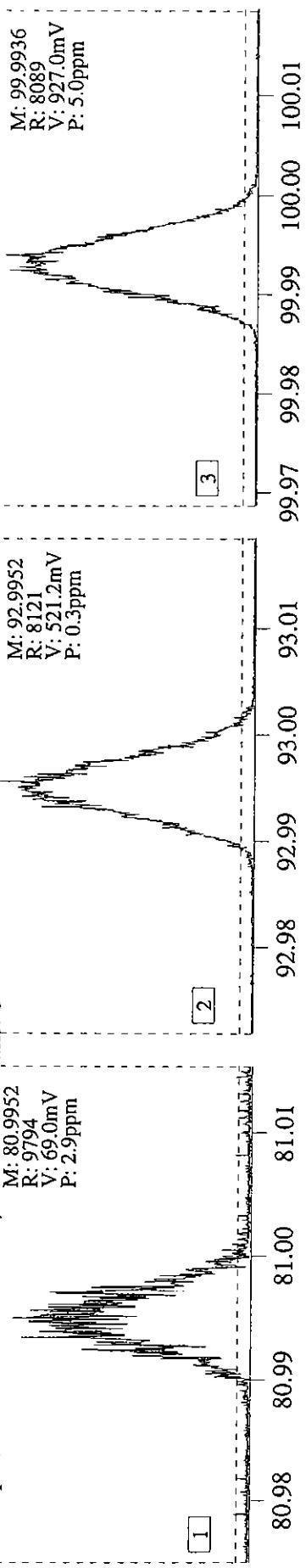


000034

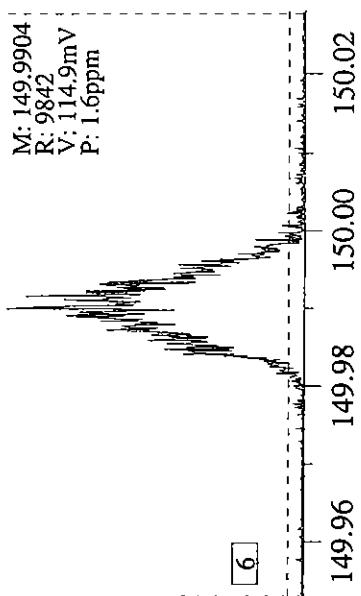
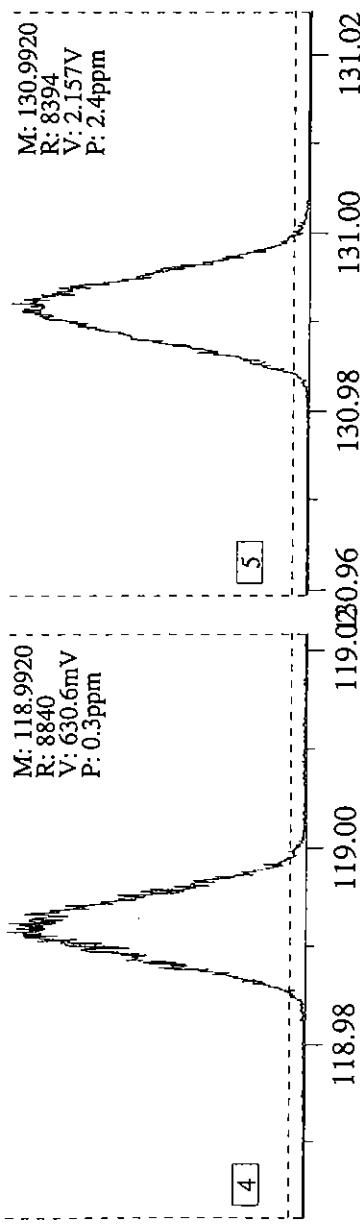
S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm

Group 5, Start Mass: 79.780, Reference Peaks: 6

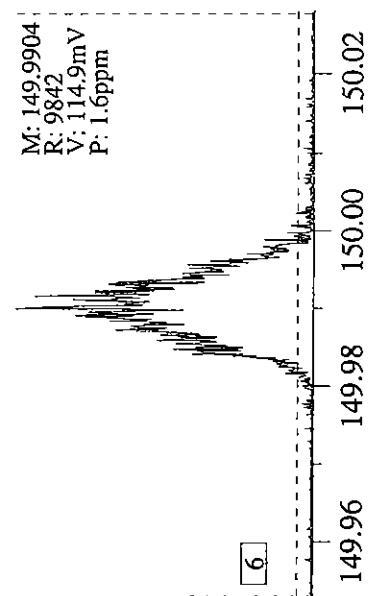
M: 80.9952
R: 9794
V: 69.0mV
P: 2.9ppm



M: 118.9920
R: 8840
V: 630.6mV
P: 0.3ppm



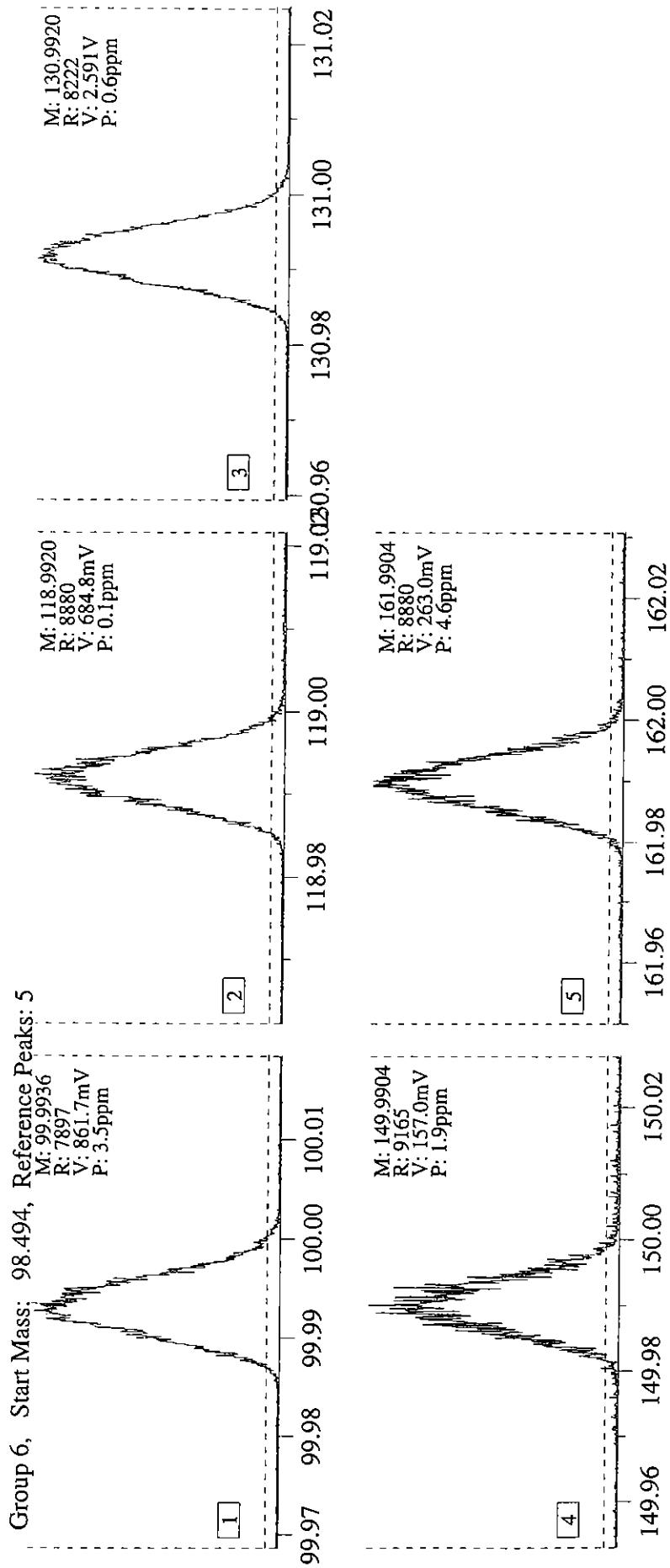
M: 92.9952
R: 8121
V: 521.2mV
P: 0.3ppm



M: 99.9936
R: 8089
V: 927.0mV
P: 5.0ppm

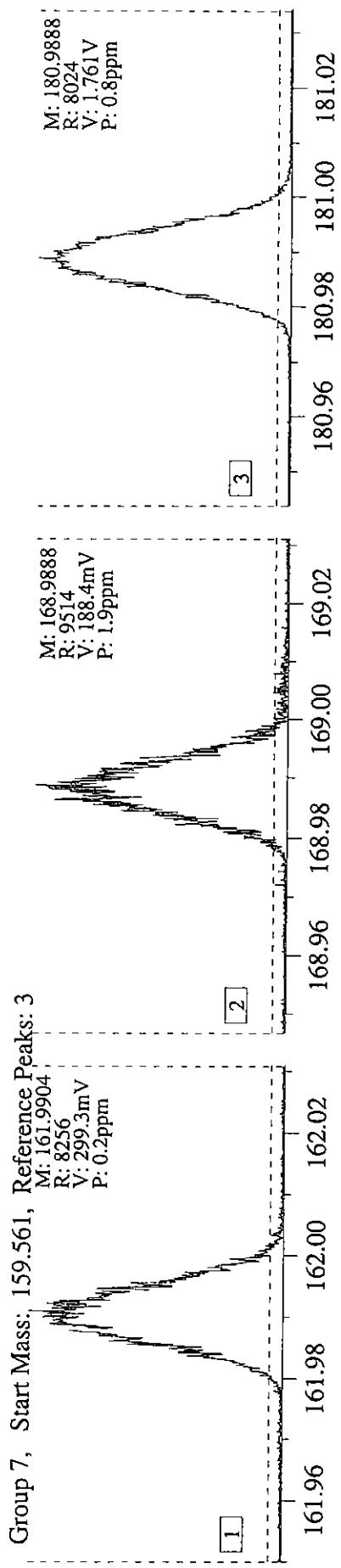
000035

S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



000036

S.I.M. Calibration 01-May-2003 10:17, Run: kr23450012, Expt: nitros200 Normalised Plot Sweep: 500 ppm, Threshold: 0.00mV, Tolerance: 500 ppm



000037

INITIAL CALIBRATION

000038

INITIAL CALIBRATION

Lab Name	Maxxam Analytics Inc.								
Instrument:	Kratos HRGC/HRMS			Calibration Date	2003/04/30				
LAB FILE ID.									
	KR23440033	CS1							
	KR23440034	CS2							
	KR23440035	CS3							
	KR23440036	CS4							
	KR23440037	CS5							
	KR23440038	CS6							
Compound	RRF CS1 (5.00ng/mL)	RRF CS2 (50.0ng/mL)	RRF CS3 (80.00ng/mL)	RRF CS4 (200.0ng/mL)	RRF CS5 (1000ng/mL)	RRF CS6 (2000ng/mL)	AVERAGE RRF	%RSD	Max %RSD
NDMA	1.57	1.73	1.69	1.66	1.62	1.77	1.67	4	25
D6 NDMA	0.138	0.127	0.138	0.135	0.147	0.146	0.139	5	25

000039

Quantify Sample Report

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Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030430\ndmacal12_20030430.qld, Time: Thu May 01 09:25:34 2003

000

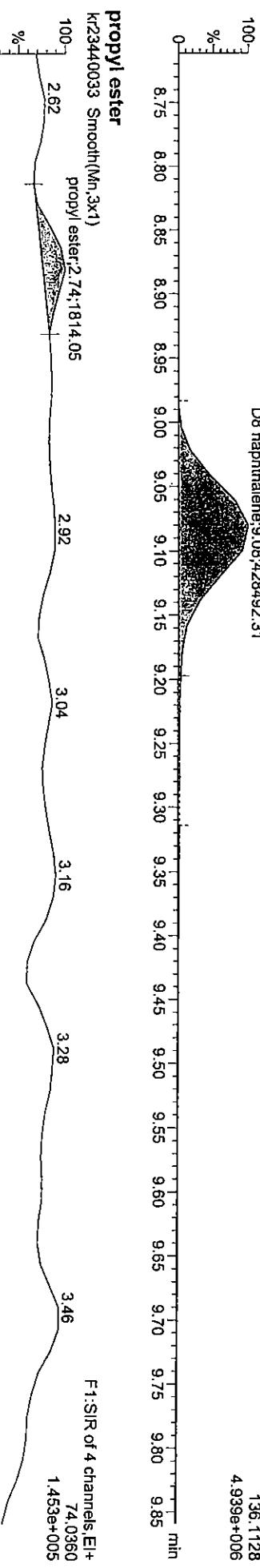
Method: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030430\ndmacal12_20030430.qld, **Time:** Thu May 01 09:25:34 2003
Calibration: Untitled, **Date:** 30-Apr-2003, **Time:** 18:40:02, **Job:** , **Description:** 5.0 ng/ml 70-202NDMW-1238

Name: kr23440033.*, Date: 30-Apr-2003, Time: 18:40:02, Job: , Description: 5.0 ng/ml 70-202NDMW-1238

000

D8 naphthalene
kr23440033 Smooth(Mn,3x1)

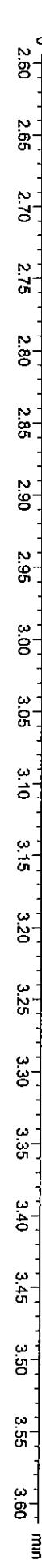
F5:SIR of 6 channels,El⁺
136.1128
4.939e+006



propyl ester

kr23440033 Smooth(Mn,3x1)
propyl ester:2.74;1814.05

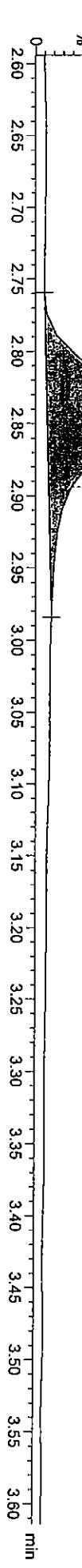
F1:SIR of 4 channels,El⁺
74.0360
1.453e+005



NDMA

kr23440033 Smooth(Mn,3x1)
NDMA:2.85;18602.26

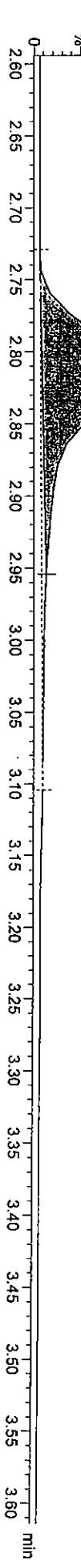
F1:SIR of 4 channels,El⁺
74.0480
2.717e+005



D6 NDMA

kr23440033 Smooth(Mn,3x1)

F1:SIR of 4 channels,El⁺
80.0860
3.342e+005



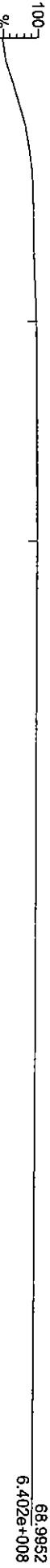
Quantify Sample Report

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Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmcal12_20030430.qsd, Time: Thu May 01 09:25:34 2003

041

kr23440033 Smooth(Mn,3x1)



68.9952
6.402e+008

lock mass5
kr23440033 Smooth(Mn,3x1)



H5:SIK of 6 channels, E1+
118.9920
5.358e+007

Sample ID	Compound Name	Traces	Absorbance	IR Spectrum	MS Spectrum	UV Spectrum	Notes	Date	
1	NDMA	74.0480	18602	2.85	4688	93.76	-6.24	01-May-03	1.569
2	D6 NDMA	80.0860	23243	2.82	9779	99.78	-0.22	01-May-03	0.138
3	D8 naphthalene	136.1128	428492	9.08	25000	100.00	0.00	01-May-03	1.000
4	propyl ester	74.0360	1814	2.74	0	36.31	-63.69	01-May-03	184....

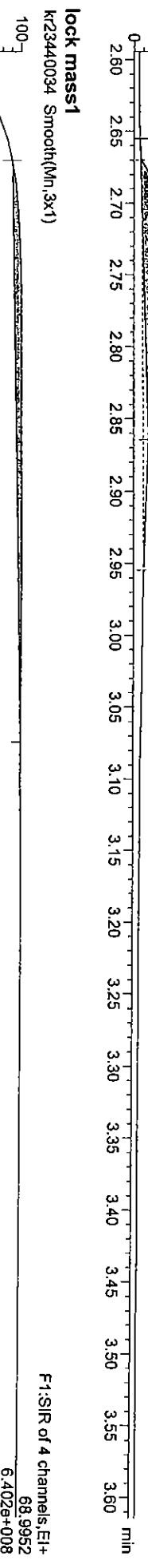
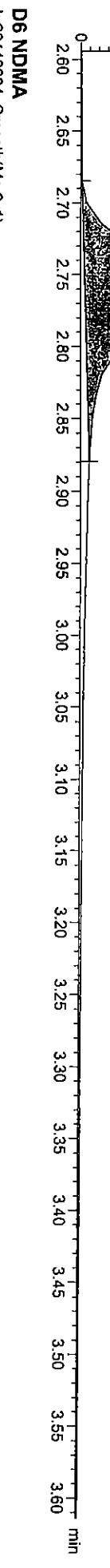
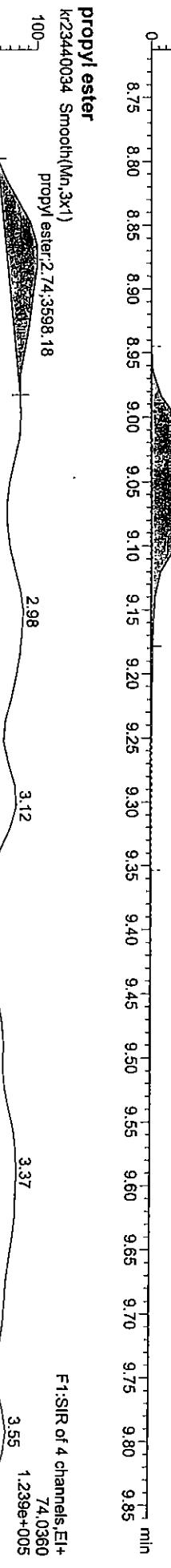
Quantify Sample Report

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Dataset: C:\MASSLYNX\Default.pro\Quant\mxFFiles\QC\Calibration\20030430\ndmacalii2_20030430.qld, Time: Thu May 01 09:25:34 2003

Name: kr23440034.*, Date: 30-Apr-2003, Time: 18:54:08, Job: , Description: 50 ng/ml,70-202NDMW-1239

000042

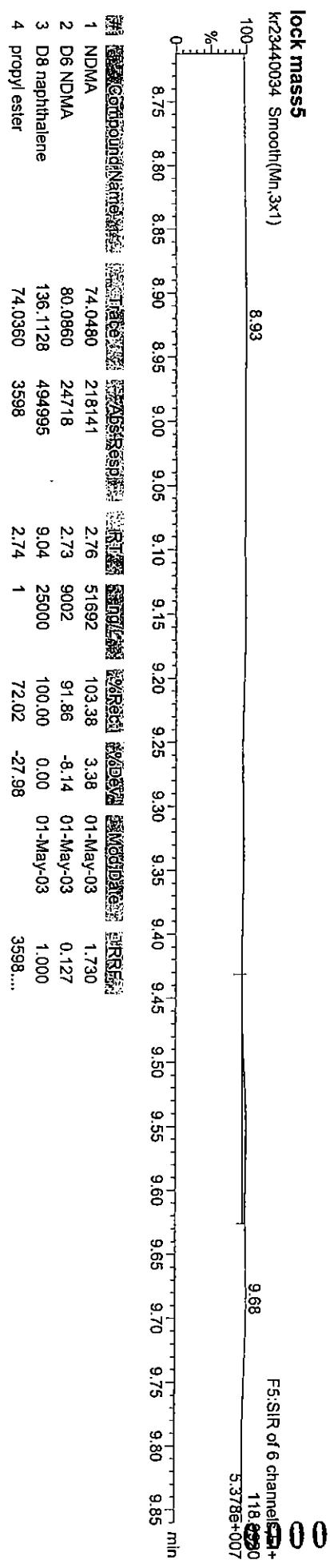


Quantify Sample Report

Printed: Thu May 01 09:31:34 2003, Page 4 of 13

Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030430\ndmacal2_20030430.qld, Time: Thu May 01 09:25:34 2003

43



Quantify Sample Report

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Dataset: C:\MASSLYNX\Default\pro\Quan\lnxFiles\QC\Calibration\20030430\ndmacal2_20030430.qld, Time: Thu May 01 09:25:34 2003

Name: kr23440035.*, Date: 30-Apr-2003, Time: 19:12:56, Job: , Description: 80 ng/ml 70-202NDMW-1240

00004

D8 naphthalene
k23440035 Smooth(Mn,3x1)

D8 naphthalene:9.04;504889.34
F5:SIR of 6 channels,El⁺
136.1128
6.046e+006

propyl ester
k23440035 Smooth(Mn,3x1)

propyl ester:2.74;1329.00
F1:SIR of 4 channels,El⁺
74.0360
1.122e+005

NDMA
k23440035 Smooth(Mn,3x1)

NDMA:2.74;376623.47
F1:SIR of 4 channels,El⁺
74.0480
5.432e+005

D6 NDMA

k23440035 Smooth(Mn,3x1)
D6 NDMA:2.71;27242.33
F1:SIR of 4 channels,El⁺
80.0060
4.214e+005

lock mass1

k23440035 Smooth(Mn,3x1)
F1:SIR of 4 channels,El⁺
68.9952
6.403e+008

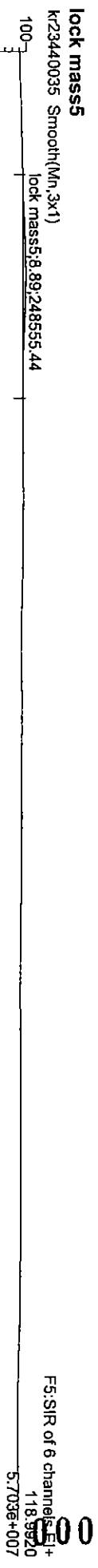
0 2.60 2.65 2.70 2.75 2.80 2.85 2.90 2.95 3.00 3.05 3.10 3.15 3.20 3.25 3.30 3.35 3.40 3.45 3.50 3.55 3.60 min

0 2.60 2.65 2.70 2.75 2.80 2.85 2.90 2.95 3.00 3.05 3.10 3.15 3.20 3.25 3.30 3.35 3.40 3.45 3.50 3.55 3.60 min

Quantify Sample Report

Printed: Thu May 01 09:31:34 2003, Page 6 of 13

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmacali2_20030430.qld Time: Thu May 01 09:25:34 2003



Compound Name	RT	ABUS Response	REC	VIEW	Last Log Date	REMARKS
1 NDMA	74.0480	376623	2.74	80977	101.22	1.22 01-May-03 1.694
2 D6 NDMA	80.0960	27242	2.71	9727	99.25	-0.75 01-May-03 0.138
3 D8 naphthalene	136.1128	504889	9.04	25000	100.00	0.00 01-May-03 1.000
4 propyl ester	74.0360	1329	2.74	0	26.60	-73.40 01-May-03 1329....

1000 45

Quantify Sample Report

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Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmacal\2_20030430.qld, Time: Thu May 01 09:25:34 2003

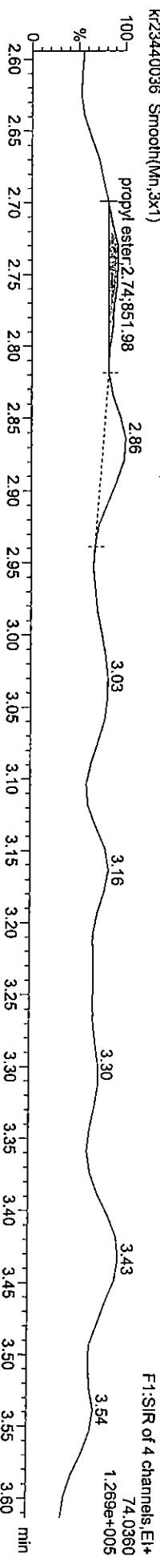
Name: kr23440036.*, Date: 30-Apr-2003, Time: 19:31:59, Job: , Description: 200ng/ml70-202NDMW-1241

000 46

D8 naphthalene



propyl ester



NDMA



D6 NDMA



lock mass1

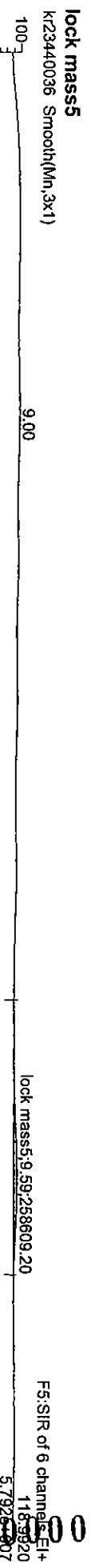


Quantify Sample Report

Printed: Thu May 01 09:31:34 2003, Page 8 of 13

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmacali2_20030430.qld, Time: Thu May 01 09:25:34 2003

04



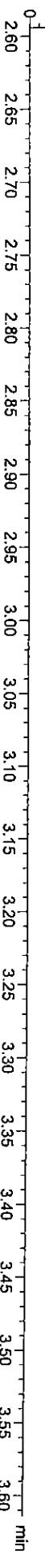
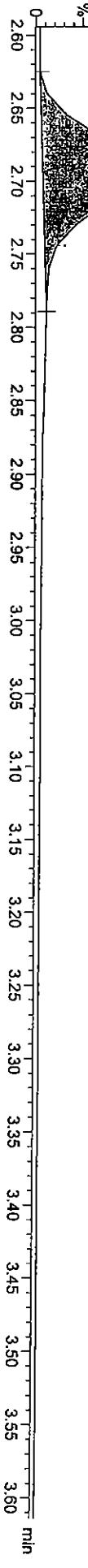
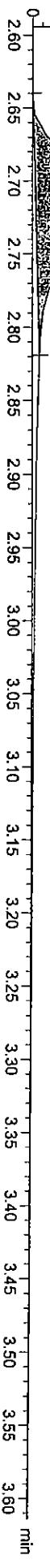
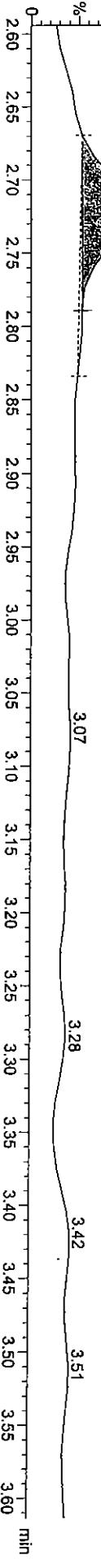
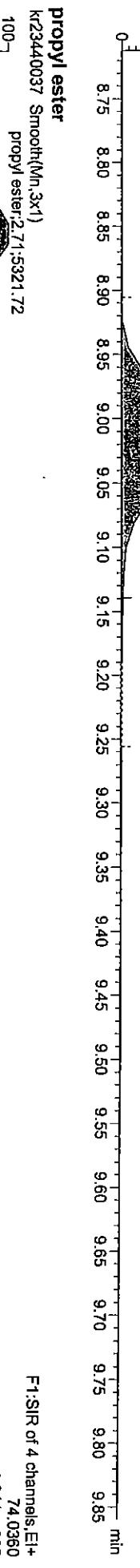
#	Compound Name	RT	Abs Response	Calibration	Conc	Conc Std Dev	Conc Min	Conc Max	Conc Std Dev	Conc Min	Conc Max
1	NDMA	74.0480	849167	2.76	198402	99.20	-0.80	01-May-03	1.660		
2	D6 NDMA	80.0860	25069	2.73	9554	97.49	-2.51	01-May-03	0.135		
3	D8 naphthalene	136.1128	473043	9.02	25000	100.00	0.00	01-May-03	1.000		
4	propyl ester	74.0360	852	2.74	0	17.05	-82.95	01-May-03	851.979		

Quantify Sample Report

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Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030430\ndmacali2_20030430.qld, Time: Thu May 01 09:25:34 2003

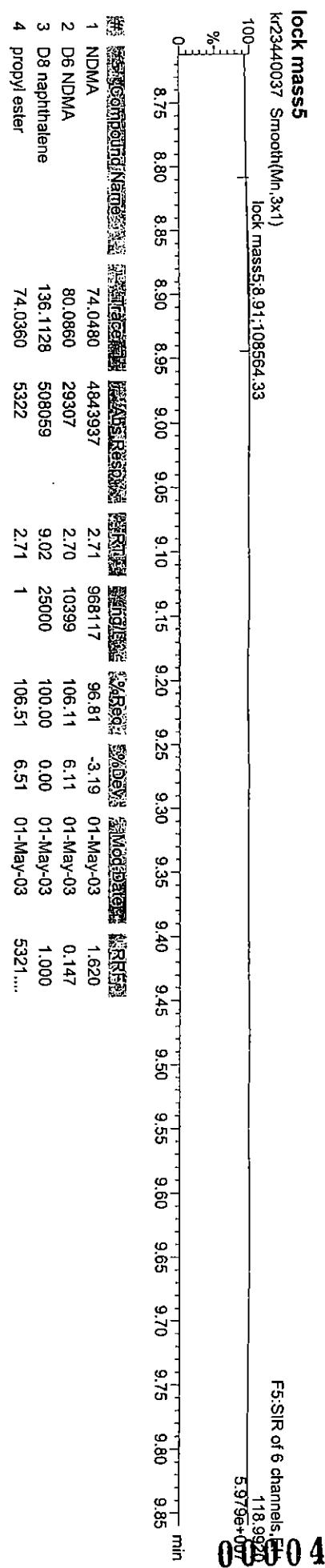
Name: kr23440037,* Date: 30-Apr-2003, Time: 19:50:55, Job:, Description: 1000ng/ml,70-202NDMW-1242



Quantify Sample Report

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Dataset: C:\MASSLYNX\Default.pro\QuantumXFiles\QC\Calibration\20030430\ndmacalib2_20030430.qid, Time: Thu May 01 09:25:34 2003



Quantify Sample Report

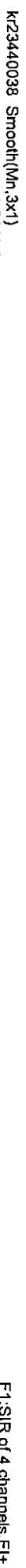
Printed: Thu May 01 09:31:34 2003, Page 11 of 13

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmacal12_20030430.qld, Time: Thu May 01 09:25:34 2003

Name: kr23440038.*, Date: 30-Apr-2003, Time: 20:09:49, Job: , Description: 2000ng/ml,70-202NDMW-1243



NDMA



D6 NDMA



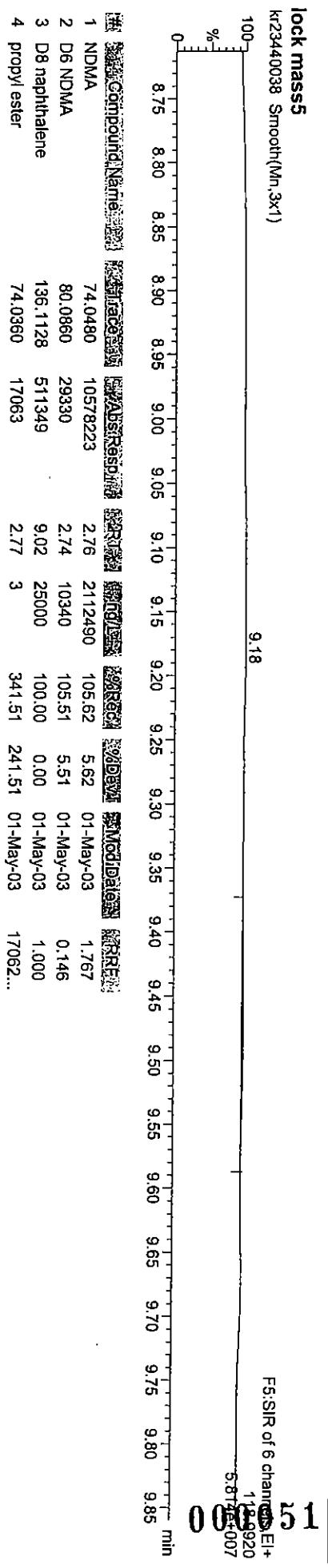
lock mass1



Quantify Sample Report

Printed: Thu May 01 09:31:34 2003, Page 12 of 13

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030430\ndmacali2_20030430.qld, Time: Thu May 01 09:25:34 2003



SECOND SOURCE CALIBRATION CHECK

00052

SECOND SOURCE CALIBRATION CHECK

Lab Name Maxxam Analytics Inc.

Instrument: Kratos HRGC/HRMS Calibration Date 2003/05/01

LAB FILE ID. KR23450014

Compound	REPORTED CONC. (ug/L)	ACTUAL CONC. (ug/L)	%D	% D LIMIT
NDMA	7.99	10.87	20	25

Compound	%RECOVERY
D6-NDMA	103

000053

Quantify Sample Report

Printed: Thu May 01 11:23:04 2003, Page 1 of 3

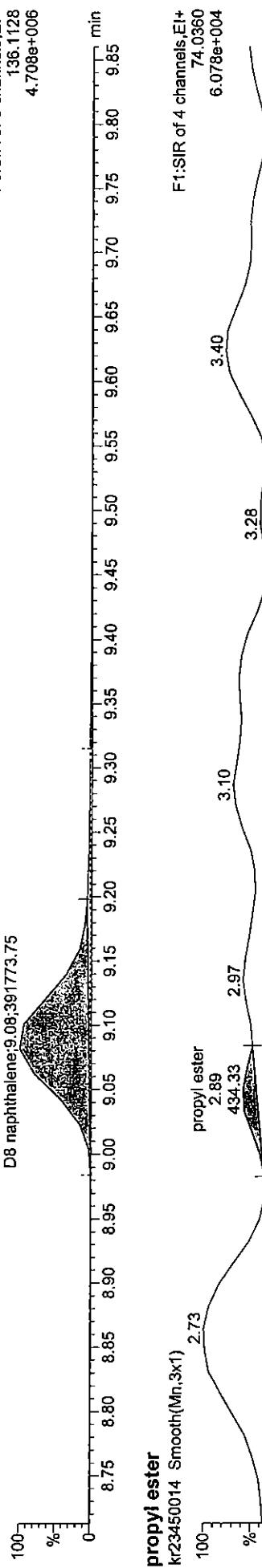
Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030501\2ndsource_20030501.qid, Time: Thu May 01 11:22:25 2003

Method: C:\MASSLYNX\Default\pro\METHDB\Nitos_EI.mdb, Time: Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default\pro\CURVED\ndmacal2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450014.*, Date: 01-May-2003, Time: 10:43:53, Job: , Description: 10.0ng/ml 70-202NDMW-1244

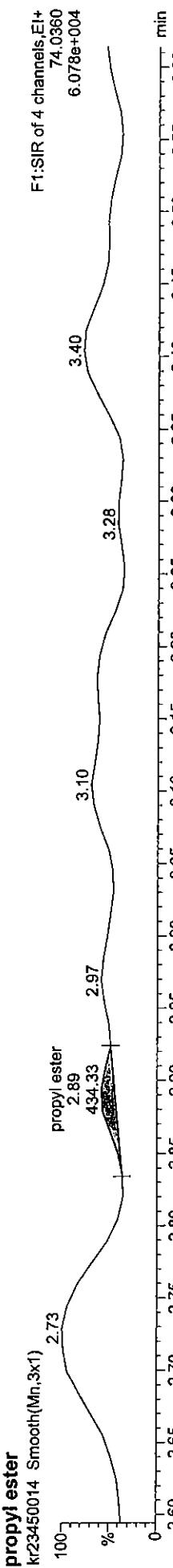
D8 naphthalene

kr23450014 Smooth(Mn,3x1)



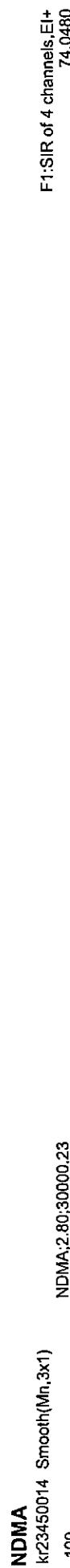
propyl ester

kr23450014 Smooth(Mn,3x1)



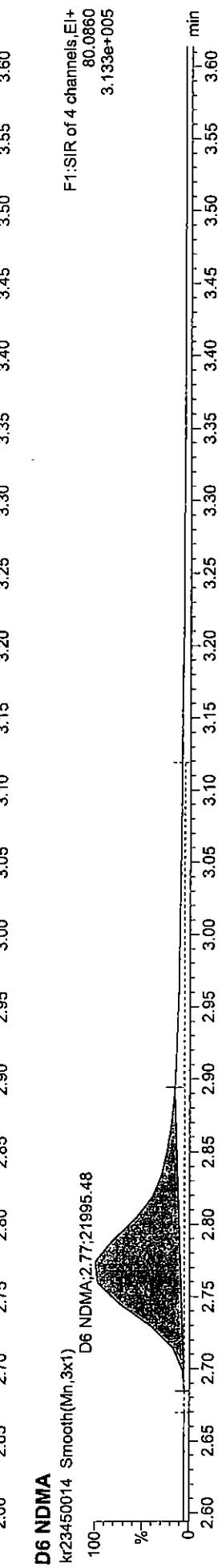
NDMA

kr23450014 Smooth(Mn,3x1)



D6 NDMA

kr23450014 Smooth(Mn,3x1)

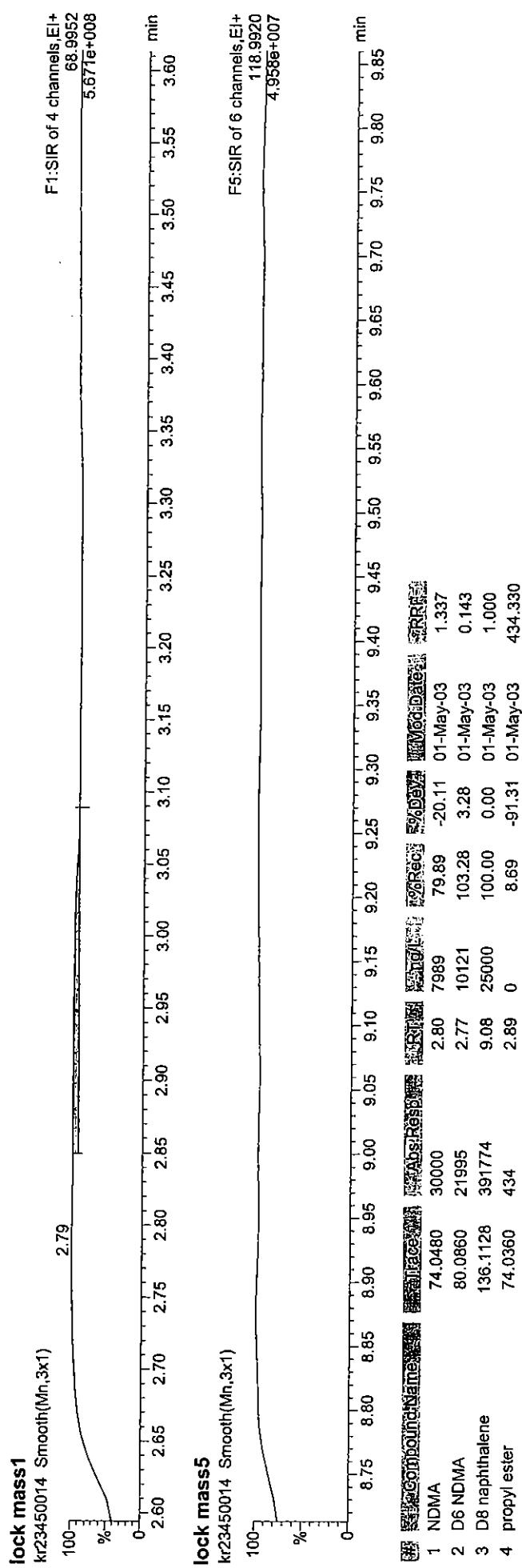


000054

Quantify Sample Report

Printed: Thu May 01 11:23:04 2003, Page 2 of 3

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\2ndsource_20030501.qld Time: Thu May 01 11:22:25 2003



Quantify Sample Report

Printed: Thu May 01 11:28:42 2003, Page 1 of 3

Dataset: C:\MASSLYNX\Default\pro\Quan\lynxFiles\QC\Calibration\20030501\Threshold_20030501.qld, Time: Thu May 01 11:28:12 2003

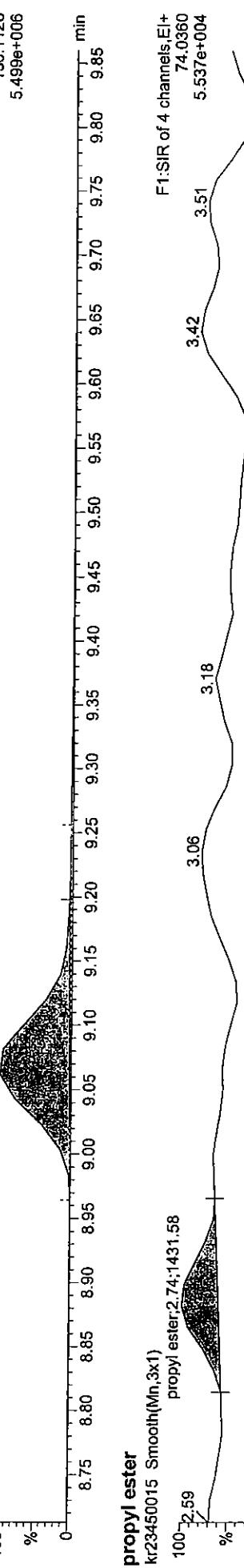
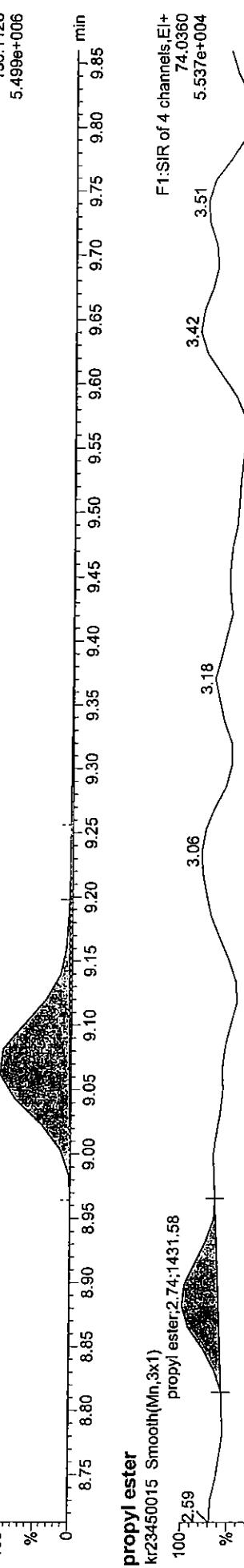
Method: C:\MASSLYNX\Default\lt.pro\METHDB\nitros_ET.mdb, Time: Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default\pro\CURVEDBindmacal2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450015.*, Date: 01-May-2003, Time: 11:01:34, Job: , Description: 1.0ng/ml 70-202NDMW-1245

D8 naphthalene

kr23450015 Smooth(Mn,3x1)

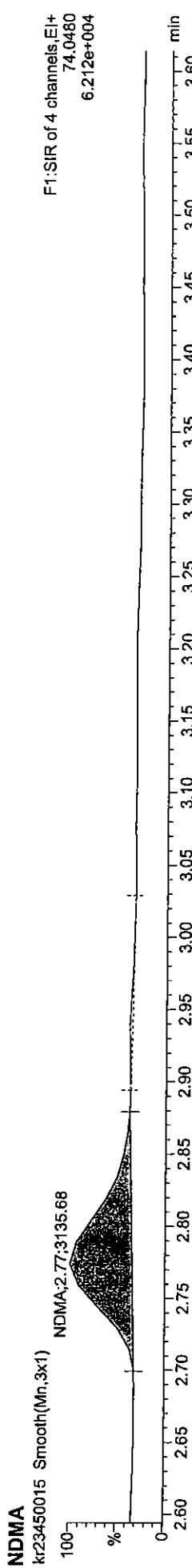
D8 naphthalene@9.06,472539.34



NDMA

kr23450015 Smooth(Mn,3x1)

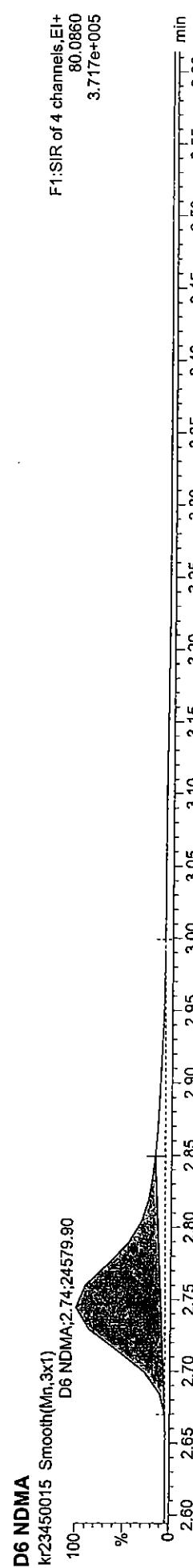
NDMA@2.77,3135.68



D6 NDMA

kr23450015 Smooth(Mn,3x1)

D6 NDMA@2.74,24579.90



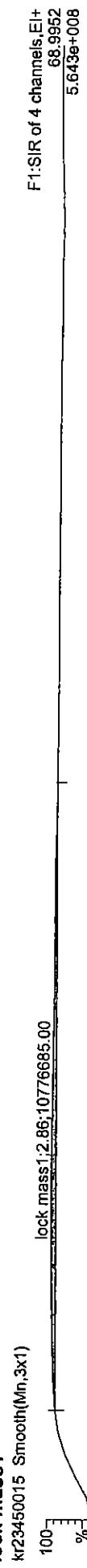
000056

Quantify Sample Report

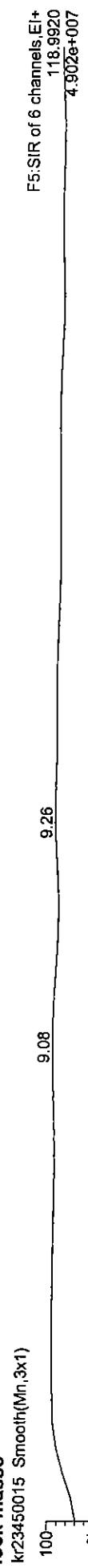
Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\Threshold_20030501.qld, Time: Thu May 01 11:28:12 2003

Printed: Thu May 01 11:28:42 2003, Page 2 of 3

lock mass1



lock mass5



Sample Point/Time	Integration	Abs Response	RT	RT Std Dev	%RSD	Imp Factor	Imp Factor Std Dev	Division	Remarks
1 NDMA	74.0480	3136	2.77	747.22		01-May-03	1	1.673	
2 D6 NDMA	80.0080	24580	2.74	9377.16	95.69	01-May-03	1	0.139	
3 D8 naphthalene	136.1128	472539	9.06	25000.00	100.00	01-May-03	1	1.000	
4 propyl ester	74.0360	1432	2.74	0.29	28.65	01-May-03	1	4996.306	

000057

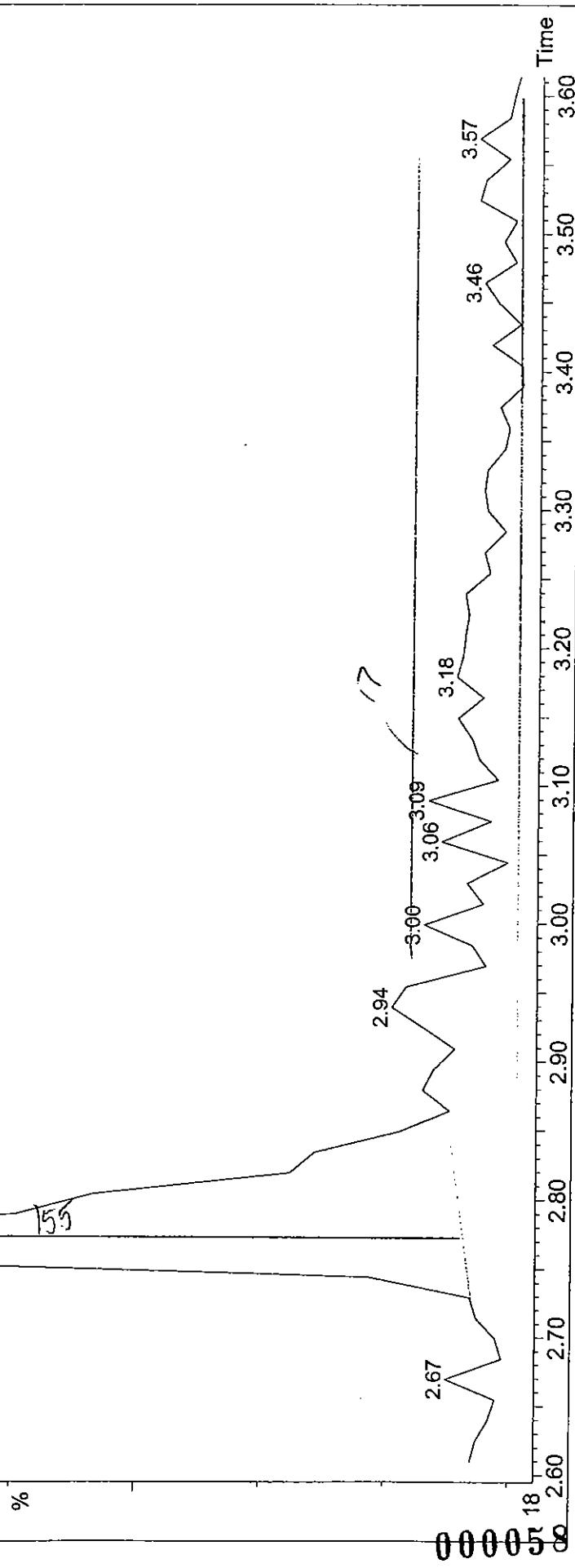
1.0ng/ml 70-202NDMW-1245

kr23450015

100

1: SIR of 4 Channels EI+
74.048
8.76e4

S/n = 9.1



CONTINUING CALIBRATION

00059

CONTINUING CALIBRATION CHECK

Lab Name Maxxam Analytics Inc.
Instrument: Kratos HRGC/HRMS Calibration Date 2003/05/01 Time 10:21:31

LAB FILE ID. KR23450013 CS4

Compound	AVERAGE RRF	RRF CS4	%D	% D LIMIT
NDMA	1.67	1.38	18	25
D6-NDMA	0.139	0.162	17	25

000060

Quantify Sample Report

Printed: Thu May 01 10:51:45 2003, Page 1 of 3

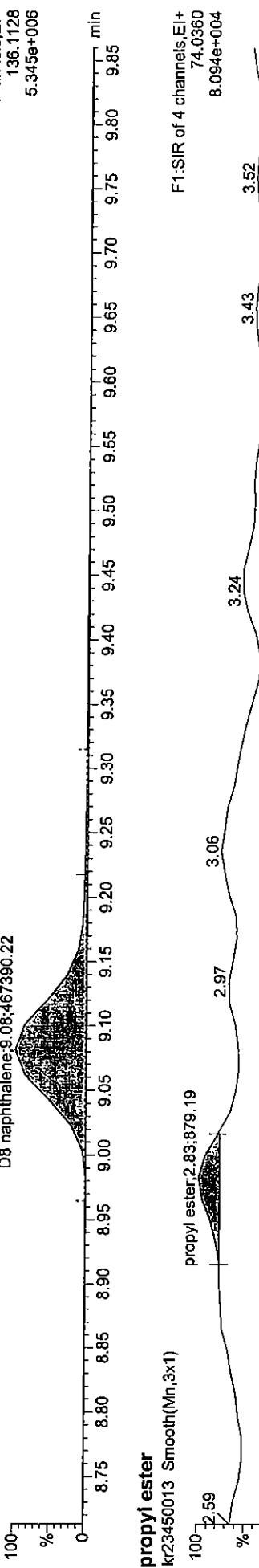
Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcalb_20030501.qld, Time: Thu May 01 10:50:29 2003

Method: C:\MASSLYNX\Default.pro\METHOD\Nitros_EI.mdb, Time: Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default.pro\CURVEDB\ndmacll2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450013.*, Date: 01-May-2003, Time: 10:21:31, Job: , Description: 200ng/ml 70-202NDMW-1241

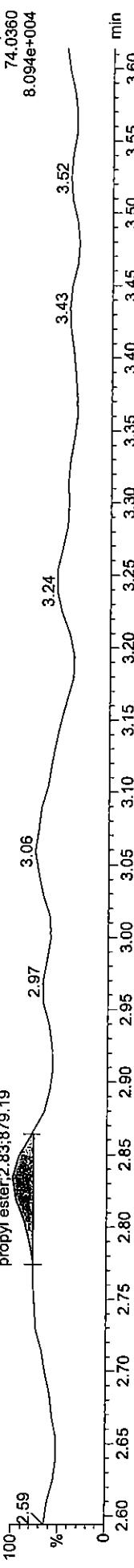
D8 naphthalene

kr23450013 Smooth(Mn,3x1)



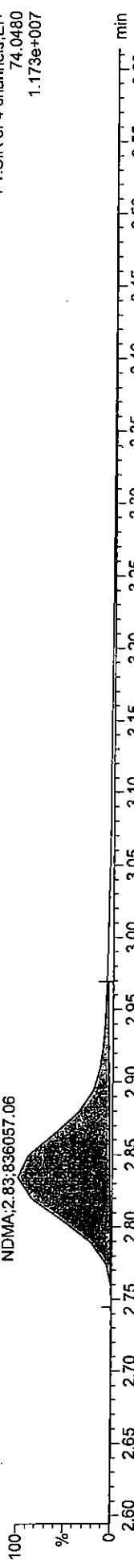
propyl ester

kr23450013 Smooth(Mn,3x1)



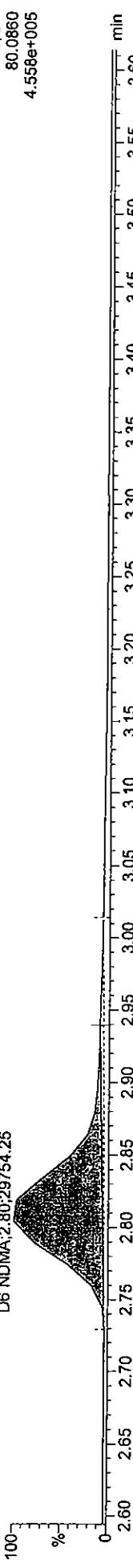
NDMA

kr23450013 Smooth(Mn,3x1)



D6 NDMA

kr23450013 Smooth(Mn,3x1)



009061

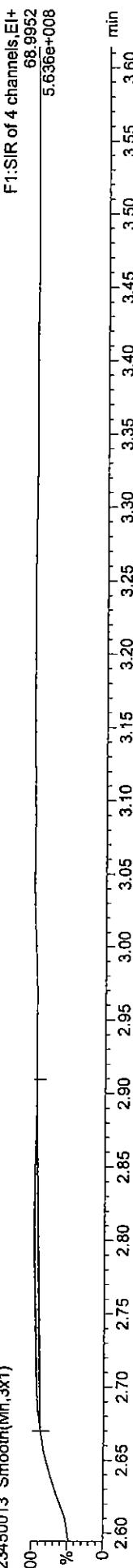
Quantify Sample Report

Printed: Thu May 01 10:51:45 2003, Page 2 of 3

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcalb_20030501.qld, Time: Thu May 01 10:50:29 2003

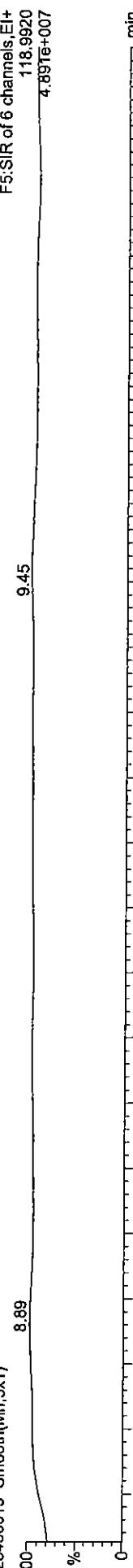
lock mass1

kr23450013 Smooth(Mn,3x1)



lock mass5

kr23450013 Smooth(Mn,3x1)



#	Component Name	Percent Trace	Percent Response	Percent Total	% Rec.	% Diff.	Mod Date	Mod ID	Rec Date
1	NDMA	74.0480	836057	2.83	164582	82.29	-17.71	01-May-03	1.377
2	D6 NDMA	80.0860	29754	2.80	11476	117.10	17.10	01-May-03	0.162
3	D8 naphthalene	136.1128	467390	9.08	25000	100.00	0.00	01-May-03	1.000
4	propyl ester	74.0360	879	2.83	0	17.60	-82.40	01-May-03	879.188

000062

CONTINUING CALIBRATION CHECK

Lab Name Maxxam Analytics Inc.
Instrument: Kratos HRGC/HRMS Calibration Date 2003/05/01 Time 13:29:08

LAB FILE ID. KR23450023 CS4

Compound	AVERAGE RRF	RRF CS4	%D	% D LIMIT
NDMA	1.67	1.42	15	25
D6-NDMA	0.139	0.159	15	25

000063

Quantify Sample Report

Printed: Thu May 01 14:10:06 2003, Page 1 of 3

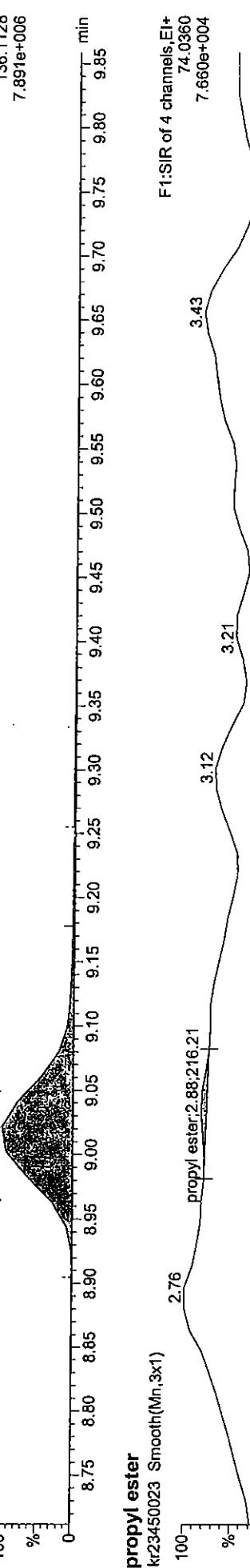
Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcalc_20030501.qld, Time: Thu May 01 14:09:38 2003

Method: C:\MASSLYNX\Default\pro\METHOD\Nitros.ET.mdb, Time: Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default\pro\CURVEDB\ndmacal2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450023.*, Date: 01-May-2003, Time: 13:29:08, Job: , Description: 200ng/ml,70-202NDMW-1241

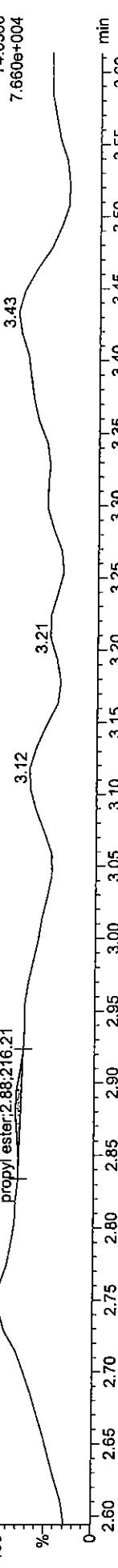
D8 naphthalene

kr23450023 Smooth(Mn,3x1)
D8 naphthalene 9.02;705291.00



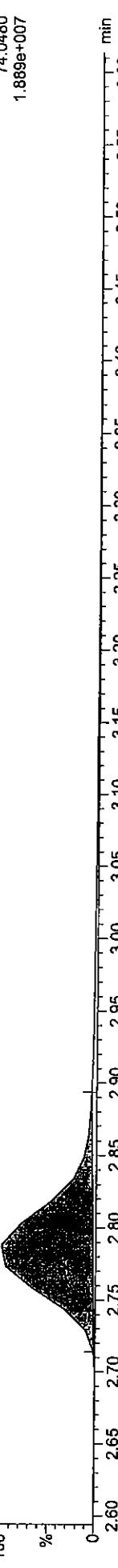
propyl ester

kr23450023 Smooth(Mn,3x1)
propyl ester;2.88;216.21



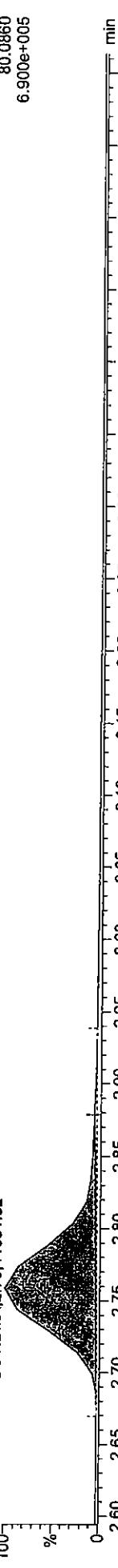
NDMA

kr23450023 Smooth(Mn,3x1)
NDMA;2.79;1278321.50



D6 NDMA

kr23450023 Smooth(Mn,3x1)
D6 NDMA;2.76;44091.82

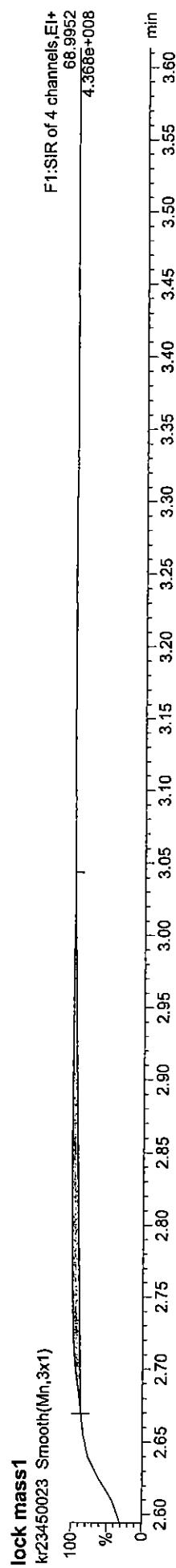


000064

Quantify Sample Report

Printed: Thu May 01 14:10:06 2003 Page 2 of 3

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\nddmaconcalc 20030501.qld, Time: Thu May 01 14:09:38 2003



	Trade Name	Trade Name	Trade Name	Trade Name	Trade Name	Trade Name
1	NDMA	74-04-80	1278322	2.79	169816	84.91
2	D6 NDMA	80-0960	44092	2.76	11220	115.00
3	D8 naphthalene	136-11-28	705291	9.02	25000	100.00
4	propyl ester	74-0360	216	2.88	0	4.33
						-95.67
						01-May-03
						15.00
						0.00
						0.00
						01-May-03
						1.421
						0.159
						1.000
						216.210

000065

CONTINUING CALIBRATION CHECK

Lab Name Maxxam Analytics Inc.
Instrument: Kratos HRGC/HRMS Calibration Date 2003/05/01 Time 14:25:47

LAB FILE ID. KR23450026 CS4

Compound	AVERAGE RRF	RRF CS4	%D	% D LIMIT
NDMA	1.67	1.50	11	25
D6-NDMA	0.139	0.148	7	25

000066

Quantify Sample Report

Printed: Thu May 01 15:37:45 2003, Page 1 of 3

Dataset: C:\MASSLYNX\Default\pro\QuantynxFiles\QC\Calibration\20030501\ndmamacncl\20030501.qld, Time: Thu May 01 15:37:07 2003

Method: C:\MASSLYNX\Default\pro\METHODS\nitros.ET.mdb, **Time:** Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default\pro\CURVEDB\ndmacal2_20030430.cdb, **Time:** Thu May 01 09:25:34 2003

Name: kr23450026.* , **Date:** 01-May-2003, **Time:** 14:25:47, **Job:** , **Description:** 200ng/ml,70-202NDMW-1241

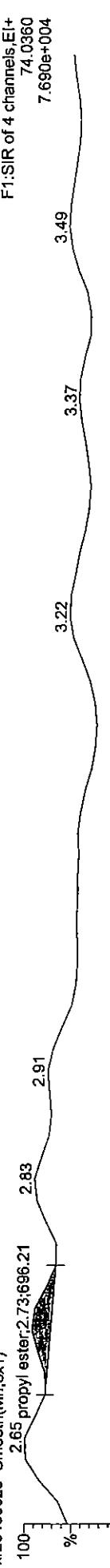
D8 naphthalene

kr23450026 Smooth(Mn,3x1)



propyl ester

kr23450026 Smooth(Mn,3x1)



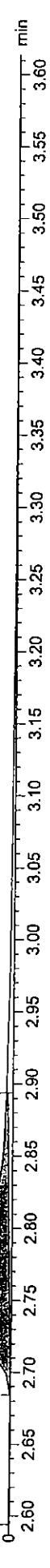
NDMA

kr23450026 Smooth(Mn,3x1)



D6 NDMA

kr23450026 Smooth(Mn,3x1)

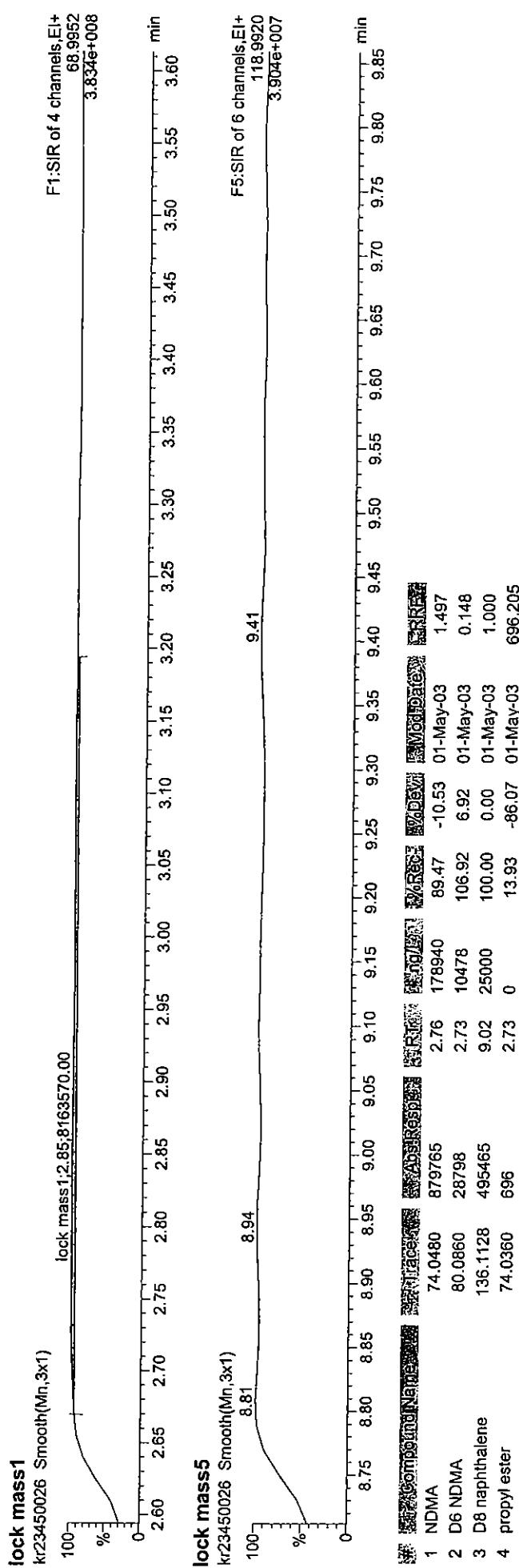


000067

Quantify Sample Report

Printed: Thu May 01 15:37:45 2003, Page 2 of 3

Dataset: C:\MASSLYNX\Default\pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcald_20030501.qld, Time: Thu May 01 15:37:07 2003



000068

CONTINUING CALIBRATION CHECK

Lab Name Maxxam Analytics Inc.
Instrument: Kratos HRGC/HRMS Calibration Date 2003/05/01 Time 19:29:56

LAB FILE ID. KR23450044 CS4

Compound	AVERAGE RRF	RRF CS4	%D	% D LIMIT
NDMA	1.67	1.70	1	25
D6-NDMA	0.139	0.128	8	25

000069

Quantify Sample Report

Printed: Fri May 02 08:11:26 2003, Page 1 of 5

Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcate_20030501.qld, Time: Fri May 02 08:10:43 2003

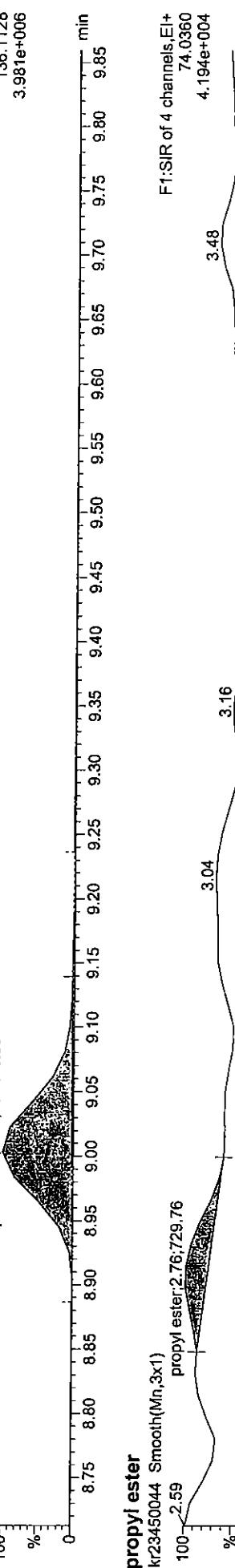
Method: C:\MASSLYNX\Default.pro\METHDB\nitros_EI.mdb, Time: Tue Mar 11 10:16:54 2003
Calibration: C:\MASSLYNX\Default.pro\CURVEDB\ndmacall2_20030430.cdb, Time: Thu May 01 09:25:34 2003

Name: kr23450044,* Date: 01-May-2003, Time: 19:29:56, Job: , Description: 200ng/ml,70-202NDMW-1241

D8 naphthalene

kr23450044 Smooth(Mn,3x1)

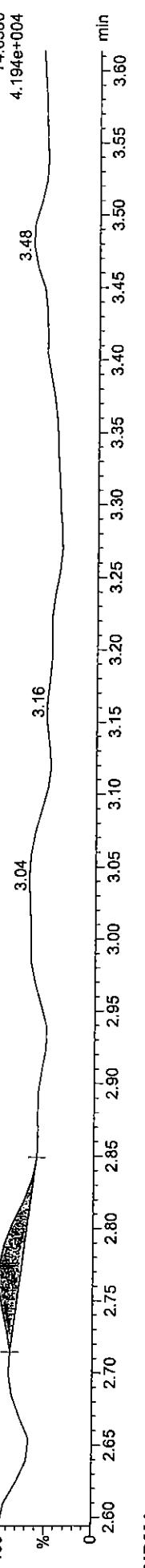
D8 naphthalene;9.00:337245.59



propyl ester

kr23450044 Smooth(Mn,3x1)

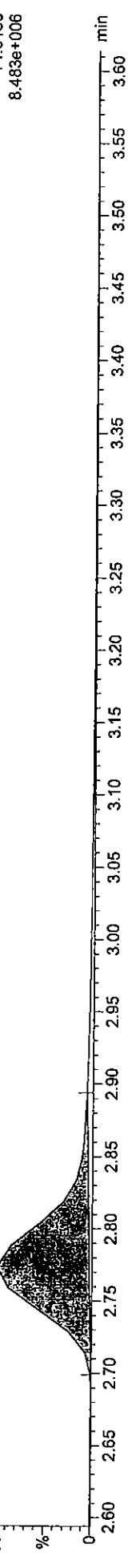
propyl ester;2.76:729.76



NDMA

kr23450044 Smooth(Mn,3x1)

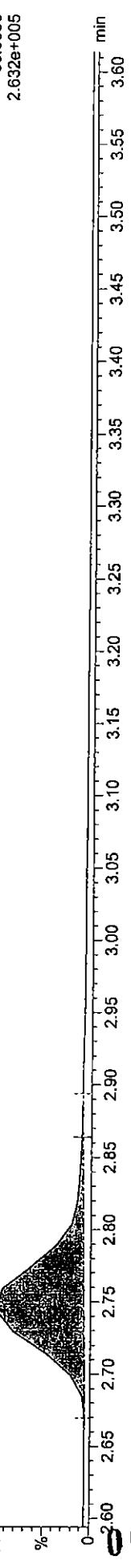
NDMA;2.77:583701.94



D6 NDMA

kr23450044 Smooth(Mn,3x1)

D6 NDMA;2.74:16876.76

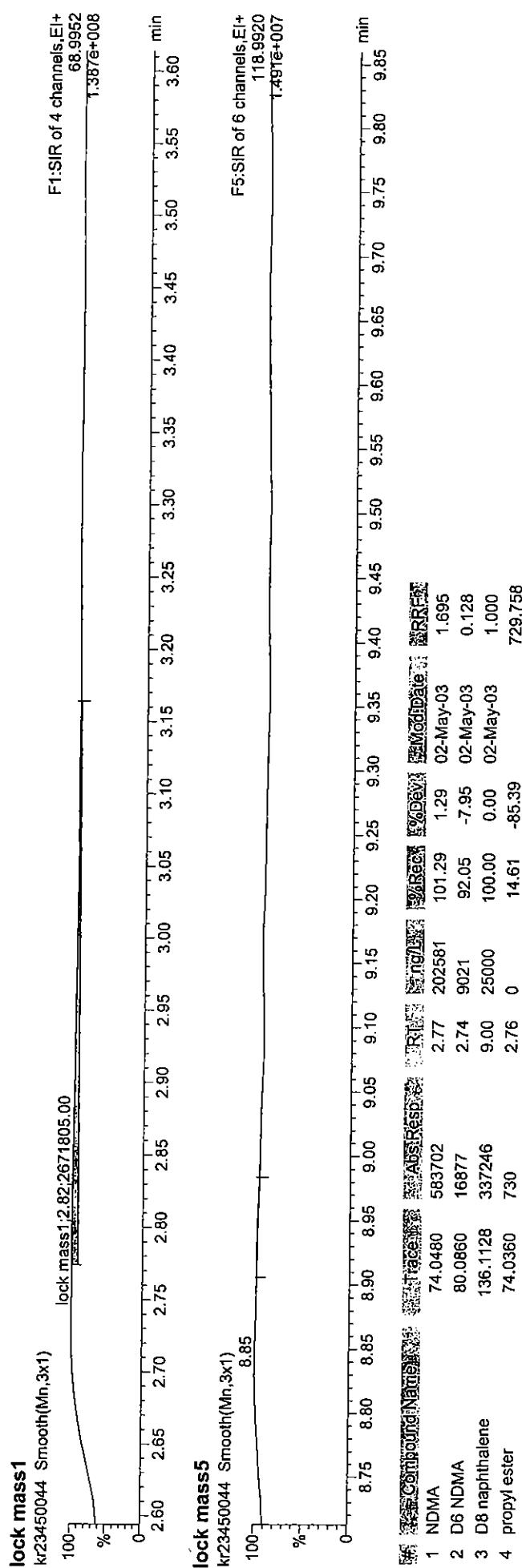


000070

Quantify Sample Report

Printed: Fri May 02 08:11:26 2003, Page 2 of 5

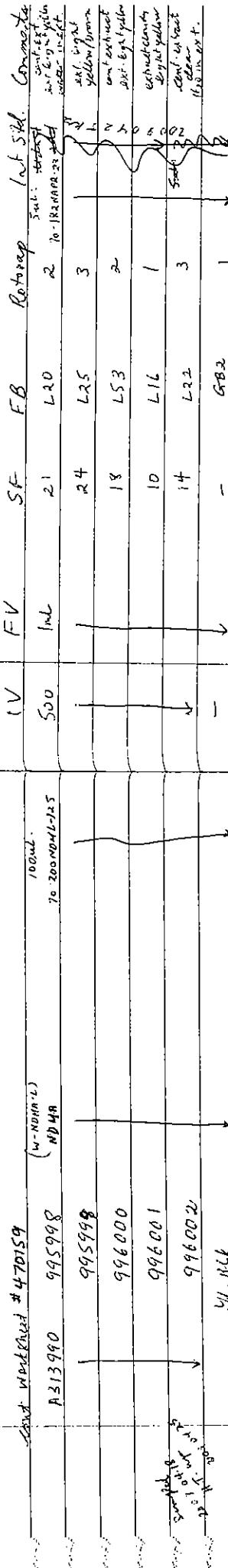
Dataset: C:\MASSLYNX\Default.pro\QuanlynxFiles\QC\Calibration\20030501\ndmaconcate_20030501.qlt, Time: Fri May 02 08:10:43 2003



000071

SAMPLE PREPARATION RECORDS

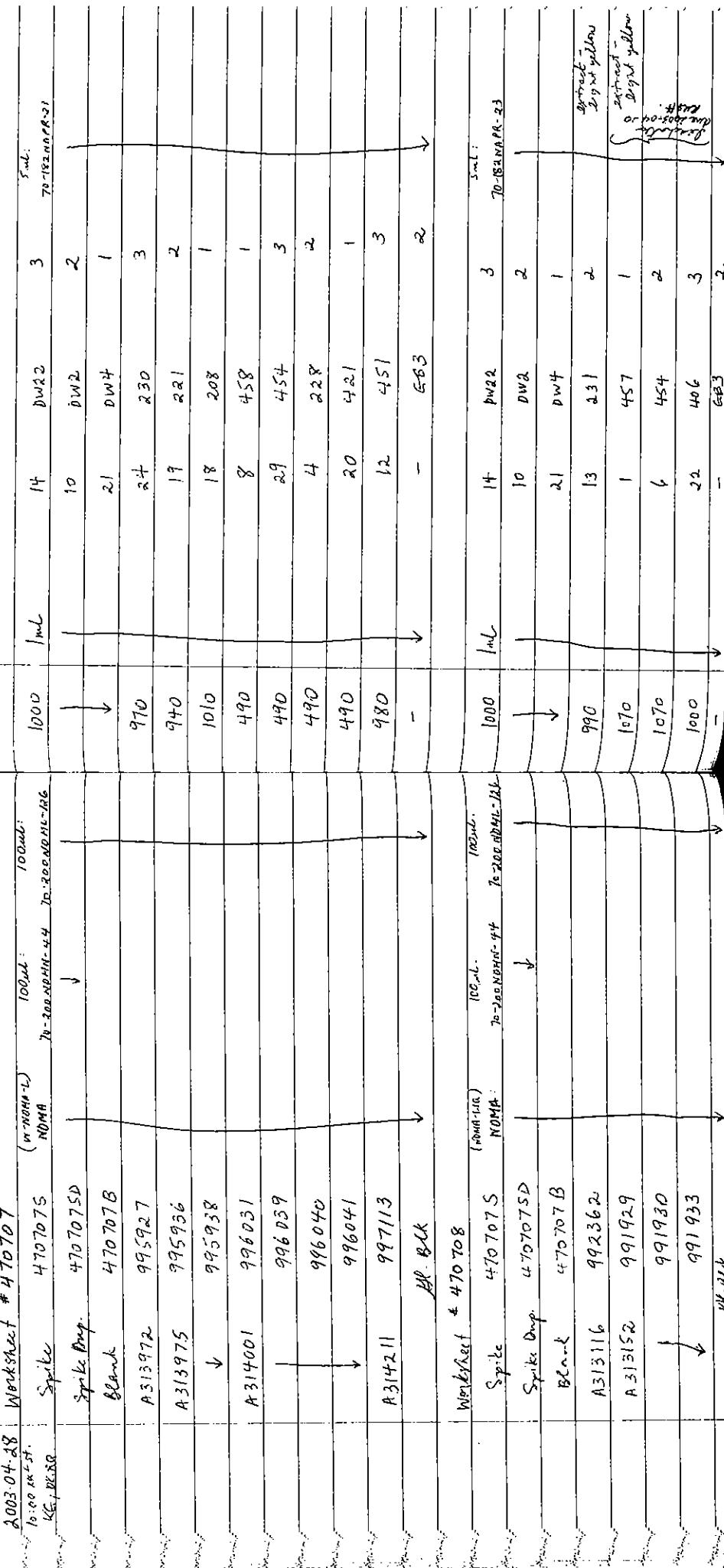
000072



2003-04-28 Worksheet # 4707079

(w-NOMA-L) 100uL
 70-200NOMA-44

70-200NOMA-HC-126



INSTRUMENT LOG

000074

Kr 2344 26 200 ng/ml 70 - 202 NMMW - 1241 ✓

✓

fail (run out of PCK - valve closed; last signal

27-31 blank deduction / Accuracy for nitro

✓

fail

32 200 ng/ml 70 - 202 NMMW - 1241

✓

fail

33 5.0 ng/ml 70 - 202 NMMW - 1238

✓

✓

34 50 ng/ml 70 - 202 NMMW - 1239

✓

✓

35 80 ng/ml 70 - 202 NMMW - 1240

✓

✓

36 200 ng/ml 70 - 202 NMMW - 1241

✓

✓

37 1000 ng/ml 70 - 202 NMMW - 1242

✓

✓

38 2000 ng/ml 70 - 202 NMMW - 1243

✓

✓

39 dcm break

✓

✓

40 10.0 ng/ml 70 - 202 NMMW - 1244

✓

✓

41 1.0 ng/ml 70 - 202 NMMW - 1245

✓

✓

42 471 449 spike, N, 1, 2

✓

✓

43 spike 0, 1, 2

✓

✓

44 ↓ float N, 1, 2

✓

✓

45 glass float (2003/04/30)

✓

✓

46 471 449 399393 -01R, N, 1, 2

✓

✓

47 999394 -01R, N, 1, 2

✓

✓

48 999395 -01R, N, 1, 2

✓

✓

49 200 ng/ml 70 - 202 NMMW - 1241

✓

✓

50 471 449 998429 -01R, N, 1, 2

✓

✓

51 ↓ 998931 -01R, N, 1, 2

✓

✓

52 200 ng/ml 70 - 202 NMMW - 1241

✓

✓

53 no data or no file

✓

✓

~~2003/04/30~~

2003/05/01

Kr 2345 01-04 Mass Resolution / Accuracy for nitro

IC

No trace

200 mg/ml

70-202 NDmW - 1241

IC

10 mg/ml

70-202 NDmW - 1244

IC

1.0 mg/ml

70-202 NDmW - 1245

IC

09-12 Mass Resolution / Accuracy for nitro

IC

200 mg/ml

70-202 NDmW - 1241

IC

10 mg/ml

70-202 NDmW - 1244

IC

1.0 mg/ml

70-202 NDmW - 1245

IC

471449, spike, N, 1, 2

IC

17 spike, N, 1, 2

IC

blank, N, 1, 2

IC

19 glass blank (2003/04/30)

IC

20 471449 999393-01R, N, 1, 2

IC

21 999394-01R, N, 1, 2

IC

22 999395-01R, N, 1, 2

IC

23 200 mg/ml

70-202 NDmW - 1241

IC

471449 998429-01R, N, 1, 2

IC

24 99893-01R, N, 1, 2

IC

25 200 mg/ml

70-202 NDmW - 1241

IC

26 200 mg/ml

70-202 NDmW - 1241

IC

27 no file

IC

28-30 Mass Resolution / Accuracy for nitro

IC

31 470707, spike, N, 1, 2

IC

32 spike, D, 1, 2

IC

33 blank, N, 1, 2

IC

34 glass blank (2003/04/28)

IC

35 470707, 995927-01R, N, 1, 2

IC

36 995936-01R, N, 1, 2

IC

37 913975

IC

fair (line focus on the wrong ion)

↓

09-12 Mass Resolution / Accuracy for nitro

IC

13 200 mg/ml

70-202 NDmW - 1241

IC

14 10 mg/ml

70-202 NDmW - 1244

IC

15 1.0 mg/ml

70-202 NDmW - 1245

IC

16 471449, spike, N, 1, 2

IC

17 spike, N, 1, 2

IC

18 blank, N, 1, 2

IC

19 glass blank (2003/04/30)

IC

20 471449 999393-01R, N, 1, 2

IC

21 999394-01R, N, 1, 2

IC

22 999395-01R, N, 1, 2

IC

23 200 mg/ml

70-202 NDmW - 1241

IC

24 471449 998429-01R, N, 1, 2

IC

25 99893-01R, N, 1, 2

IC

26 200 mg/ml

70-202 NDmW - 1241

IC

27 no file

IC

28-30 Mass Resolution / Accuracy for nitro

IC

31 470707, spike, N, 1, 2

IC

32 spike, D, 1, 2

IC

33 blank, N, 1, 2

IC

34 glass blank (2003/04/28)

IC

35 470707, 995927-01R, N, 1, 2

IC

36 995936-01R, N, 1, 2

IC

37 913975

IC

KJ 234537	470707 , 995 938 -01R , N, 1, 2	fc	A 313975
38	996 031 -01R , N, 1, 2	fc	A 314001
39	996 039 -01R , N, 1, 2	fc	
40	996 040 -01R , N, 1, 2	fc	
41	996 041 -01R , N, 1, 2	fc	
42	997 113 -01R , N, 1, 2	fc	A 314211
43	471450 , 997 216 -03R , N, 1, 2	fc	
44	200 ngl/ml 70 -202 NMW -1241	fc	
45	470 159 spike , N, 1, 2	fc	
46	spike D , 1, 2	fc	
47	leak , N, 1, 2	fc	
48	clears blonde (2008 04 25)	fc	
49	470 159 995 995 -01R , N, 1, 2 dre 1/10	fc	A 313990
50	995 996 -01R , N, 1, 2 dre 1/10	fc	
51	995 997 -01R , N, 1, 2 dre 1/10	fc	
52	995 998 -01R , N, 1, 2 dre 1/10	fc	
53	995 999 -01R , N, 1, 2 dre 1/10	fc	
54	996 000 -01R , N, 1, 2 dre 1/10	fc	
55	996 001 -01R , N, 1, 2 dre 1/10	fc	
56	996 002 -01R , N, 1, 2	fc	
57	200 ngl/ml 70 -202 NMW -1241	fc	
	no file	fc	
		2003/05/08	
KJ 2346	01 -06 Mass resolution / Accuracy for water	fc	
07	200 ngl/ml 70 -202 NMW -1241	fc	
08	10 ngl/ml 70 -202 NMW -1244	fc	fail

STANDARDS PREPARATION RECORDS

000078

Rate	lot #	Shut used	Initial conc	Final vol. fraction	use	Code	Final conc	Expiry	Comments	Initials	
2002/11/11	70-162NOMN-28	100uL	20,000 ng/mL	1mL DCM	Nitrosamines Working standards	70-162J-NOMN-104	2000.0 ng/mL	2002/12/11	use 100uL 70-162NOMN-28	KC	
	70-162NOMN-35	100uL	20,000 ng/mL	100ug/mL	Nitrosamines Second Trace Std	70-162J-NOMN-105	10.0 ug/mL		use 100uL 70-162NOMN-28	KC	
	70-162NOMN-42	100uL	20,000 ng/mL	100ug/mL	Nitrosamines Third trace Std	70-162J-NOMN-106	1.0 ug/mL		use 100uL 70-162NOMN-28	KC	
2002/11/12	13LC506022	100 uL	100 ug/mL	10 mL	Acetate NPA Inorganic	70-162J-NOMN-172	" ² ng/mL	2003/01/12	use 10 uL	JP	
						70-162J-NOMN-173					
						70-162J-NOMN-174					
						70-162J-NOMN-175					
						70-162J-NOMN-176					
						70-162J-NOMN-177					
2002/11/13	70-162NOMN-32	100uL	50ng/mL	1mL DCM	NITROSOAMINES Working STDs	70-162J-NOMN-1035	5.00ng/mL	2002/11/21	use each 100uL	JD	
	70-162NOMN-22	100uL	200ng/mL			70-162J-NOMN-1036	50.00ng/mL				
		40uL				70-162J-NOMN-1037	80.00ng/mL				
		100uL				70-162J-NOMN-1038	200ng/mL				
	70-162NOMN-28	50uL	20,000 ng/mL			70-162J-NOMN-1039	100ng/mL				
		100uL				70-162J-NOMN-1040	200ng/mL				
		100uL				70-162J-NOMN-1041	0.00ng/mL				
		100uL				70-162J-NOMN-1042	1.00ng/mL				
	70-162NOMN-35	100uL	100ng/mL								
	70-162NOMN-37	100uL	10.00ng/mL								
	70-162NOMN-39	100uL	0.98ng/mL	10mL MeOH	de-NDMA surrogate	70-162J-NOMN-107	9.8ng/mL	2002/11/23	use 100uL	KC	
	c11-diazome I ₂ -5674	100uL	38% Iodine	10mL MeOH	de-NOMS stock solution	70-162J-NOMN-04	9.8 mg/mL	2003/11/14	Stock solution	OK	
	2002/11/14	70-162NOMN-04	100uL	9.8ug/mL	NOMS de Working Std	70-162J-NOMN-10	9.8 mg/mL	2003/10/14	use 100uL for working std	OK	
	2002/11/14	70-80NOMN-02	1mL	200ug/mL	Nitrosamines Intermediate # 1	70-162NOMN-36	26,000 ug/mL	2003/01/28	Intermediate # 1	OK	
	2002/11/14	70-162NOMN-36	1mL	20,000ng/mL	10uL MeOH	70-162NOMN-37	2,000 ng/mL	2003/02/28	Intermediate # 2	OK	
	2002/11/15	70-162NOMN-04	100 uL	9.8ug/mL	Nitrosamines Intermediate # 2	70-162J-NOMN-111	38ng/mL	2003/02/15	use 100uL	SL	
		100uL				70-162J-NOMN-112					
	2002/11/16	70-162NOMN-37	100uL	2,000ng/mL	1mL DCM	Nitrosamines Working STDs	70-162J-NOMN-1043	200 mg/mL	2002/12/14	use 100uL 70-162NOMN-110	OK
						70-162J-NOMN-1044					

Anti	Lot #	First used	Final conc	Initial conc	Final vol	Inc	date	Final conc	Expiry	Comments	Initial
2003/01/31	70-174 NMMW-34	100µL	50.0 ng/ml	1mL	50.0mL	10-182 NMMW-1154	5.0 ng/ml	2003/04/06	added 50.0 µg/ml	5.0 ng/ml	1/6
2003/02/03	70-162 NMMW-37	100µL	2000 ng/ml	1mL	2000 ng/ml	70-182 NMMW-1155	2000 ng/ml	2003/04/20	50.0 µg/ml	2000 ng/ml	1/6
	70-160 NMMW-35			100.0 ng/ml		2nd trace infrared	1156	10.0 ng/ml	added 50.0 µg/ml	10.0 ng/ml	1/6
	70-182 NMMW-1156			10.0 ng/ml		Richard minimizing	1157	1.0 ng/ml	added 50.0 µg/ml	1.0 ng/ml	1/6
2003/02/03	70-162 NMMW-04	100.0 ng/ml	9.8 ng/ml	10mL	MeOH	70-182 NMMW-1150	9.8 ng/ml	2003/05/03	9.8 ng/ml	9.8 ng/ml	1/6
2003/02/03	70-162 NMMW-37	100.0 µL	2000 ng/ml	1mL	DCM	70-182 NMMW-1158	2000 ng/ml	2003/03/03	added 50.0 µg/ml	2000 ng/ml	1/6
2003/02/04	13LC50602	100µL	100000 ng/ml	10mL	Acetone /IF surroun	70-182 161L - 237	1/2 ng/mL	2003/02/04	100000 ng/ml	100000 ng/ml	1/6
						70-182 161L - 238					DK
						70-182 161L - 239					
						70-182 161L - 240					
						70-182 161L - 241					
						70-182 161L - 242					
						70-182 161L - 243					
						70-182 161L - 244					
						70-182 161L - 245					
						70-182 161L - 246					
						70-182 161L - 247					
						70-182 161L - 248					
						70-182 161L - 249					
						70-182 161L - 250					
2003/02/04	13LC50602	100µL	100 ng/ml	10mL	acet. D/F/ant	70-182 161L - 245	1/2 ng/ml	2003/03/04			
						70-182 161L - 246					
						70-182 161L - 247					
						70-182 161L - 248					
						70-182 161L - 249					
						70-182 161L - 250					
2003/02/09	70-160 NMMW-35	100µL	100.0 ng/ml	1mL	DCM	70-182 NMMW-1159	10 ng/ml	2003/03/04	added 50.0 µg/ml	10 ng/ml	1/6
	70-182 NMMW-1160	100µL	10.0 ng/ml	1	-	70-182 NMMW-1160	-1160	1/6	50.0 µg/ml	10 ng/ml	1/6
2003/02/05	lot 1212	50µL	1000 ng/ml	10mL	DCM	70-182 NAPR - 23	5 ng/ml	2003/05/05	measured	5 ng/ml	1/6
						Naphthalene solution	D8		(Standby in amber vial)		
						measured					
						1ST-200					
						Lot No. R-1212					
						ULTRA SCANNER					
						Exp. Date 11/2004					
						401-284-8400					
2003/02/05	70-174 NMMW-34	100 µL	50.0 ng/ml	1mL	DM	70-182 NMMW - 1161	5.00 ng/ml	2003/03/05	5.00 ng/ml	5.00 ng/ml	1/6
	70-162 NMMW-37	25 µL	2000 ng/ml	1000 µL		1162	50.00				
		40 µL				1163	80.00				
						1164	200.00				

190	Date	Day #	Start conc.	Final conc.	Solvent	Acet.	Code	Final conc	Expiry date	Comments	Unit
2003/02/26	70-189NM/NIN-40	1mL	2000ug/ml	10mL	MeOH	0.1%ACETATE	70-190NM/NIN-41	2000 ug/ml	2003/08/26	INTER. #2 NITROS	kg
	70-190NM/NIN-41	250µL	2000ug/ml	10mL	MeOH	Nitrobenzene (140)	70-190NM/NIN-42	43.3 ug/ml	2003/05/06	MEWR NITROS LAB SPKE	
	70-190NM/NIN-41	250µL	2000ug/ml	10mL	MeOH	Nitrobenzene (140)	70-190NM/NIN-42	50 ug/ml	2003/05/26	MEWR NITROS WORKING SPKE	
	70-190-NM/NIN-40	100 µL	50 ug/ml	10mL	MeOH	Nitrobenzene (140)	70-190NM/NIN-42	5.0 ug/ml	2003/03/26	added 5µL 10-TETRAZOLE-200 100 µL 70-182NM/NIN-400 METHOD SPKE TO REST REFL STAYS	
✓	70-190-NM/NIN-43	100 µL	10000 ug/ml	50 ug/ml	formic acid	70-190NM/NIN-43	10000 ug/ml	5.0 ug/ml	2003/03/26		
✓	70-190-NM/NIN-43	100 µL	10000 ug/ml	10mL	Acetone	70-190NM/NIN-43	10000 ug/ml	1/2 ug/ml	2003/08/26		
2003/03/26	131LC50602	100µL	10000 ug/ml	10mL	Acetone	D/E-SURROGATE	70-190NM/NIN-259	1/2 ug/ml	2003/08/26		
							-260				DL
							-261				
							-262				
							-263				
							-264				
							-265				
							-266				
							-267				
							-268				
							-269				
2003/02/27	70-190NM/NIN-41	100µL	2000 ug/ml	1mL	DAN	Nitrobenzene 2nd time working spke	70-190NM/NIN-194	200 ug/ml	2003/03/27	added in each: 5µL 70-171NM/NIN-320 100 µL 70-182NM/NIN-320	kg
	70-184NM/NIN-39	100µL	100 ug/ml	1mL	DAN	70-190NM/NIN-195	10 ug/ml				
	70-190NM/NIN-195	100µL	100 ug/ml	1mL	DAN	70-190NM/NIN-196	1.0 ug/ml				
	MCPS08978	100mL	100 mg/L	10mL	Acetone	Chlorophenols Sun.	70-190C PAN-12	1mg/L	2003/08/27	OK	
2003/02/27	MCBS50199	100mL	100 mg/L	10mL	Acetone	Chlorobenzenes Sun.	70-190C PAN-12	1mg/L	2003/08/27	OK	
2003/02/27	CPS9708	100mL	100 mg/L	10mL	MeOH	Chlorophenols Spike	70-190C PAN-1207	1mg/L	2003/08/27	OK	
2003/02/27	CBS9708	100mL	100 mg/L	10mL	MeOH	Chlorobenzenes Spike	70-190C PAN-1207	1mg/L	2003/08/27	OK	
1	MAX SOL-4	1	1	1	1	1	1	1	2003/08/27	DK	
2003/03/03	EPA160STCK at DSTR A02	250mL	4000ug/ml	10mL	Acetone	31F. Intermedia	70-19016 IN-02	10/150/100	2003/03/03	10/150/100	
2003/03/03	70-19016IN-02	1mL	10/50/100	10 mL	Acetone	31F. Spike day 1	70-19016IN-13	1/5/10	2003/09/03	1/5/10	
2003/03/05	G8A-C50910	50µL	1µg/ml	25mL	Acetin daily	PCTP - Murray Bay	150 - 100 - 80	2 ng/mL	2003/09/05	use by 05	SL

Date	Lot #	Amount used	Initial conc.	Final Vol.	Solvent	Use code	Code	Final Expire date	Comments	Init.
2003/04/15	70-172NDMN-44	Soln.	200ug/ml	10ml	DCM	2nd Source	—	10000 ug/L	—	H.b.
	70-180D8N-16	1.0ml	12.68ug/ml	—	—	for	—	1260 ug/L	—	—
	70-172NDMN-02	100ml	100ug/ml	—	—	1.4 Dividens	70-202NDMN-05	15000 ug/L	2003/06/15	—
2003/04/17	70-3800C8U-03	100µL	10ng/ml	10ml	ACETONE	PEI-DIUE spike daily	70-302PEB428	0.1 ng/ml	2003/10/17	0.0E 1.0mc For THOMAS
										Y.
										18-202CBN-29
										Y.
										70-202CBN-30
										Y.
										to 202CBN-31
										Y.
2003/04/18	70-190NDMN-42	100 µL	50 ng/ml	1ml	DCM	W/through the inhalation	70-202NDMN-06	3D ng/ml	2003/05/28	in each added : 5µl 70-198NDMN-25
	70-190NDMN-41	25 µL	2000 ng/ml	—	—	1227	50.0 ug/ml	—	—	H.C.
		40 µL	—	100 µL	—	1228	80.0 ug/ml	—	—	—
			100 µL	—	—	1229	800 ng/ml	—	—	—
	70-188NDMN-60	50 µL	20,000 ng/ml	—	—	1230	1000 ng/ml	—	—	—
		100 µL	—	—	—	1231	2000 ng/ml	—	—	—
	70-184NDMN-39	100 µL	100 ng/ml	—	—	1232	10.0 ng/ml	—	—	—
	70-202NDMN-123	100 µL	10 ng/ml	—	—	1233	1.0 ng/ml	—	—	—
2003/04/19	70-190NDMN-42	100 µL	50 ng/ml	1ml	DCM	W/through the inhalation	70-202NDMN-084	5.0 ug/ml	2003/05/28	in each added : 5µl 70-198NDMN-25
	70-184NDMN-39	100 µL	100 ng/ml	—	—	1235	10.0 ng/ml	—	—	H.C.
	70-202NDMN-123	100 µL	10.0 ng/ml	—	—	1236	1.00 ng/ml	—	—	—
	70-190NDMN-41	100 µL	2000 ng/ml	—	—	1237	200 ng/ml	—	—	—
	70-190NDMN-42	100 µL	50 ng/ml	1ml	DCM	W/through the inhalation	70-202NDMN-088	5.0 ug/ml	2003/05/26	in each added : 5µl 70-198NDMN-25
	70-190NDMN-41	25 µL	2000 ng/ml	—	—	1238	50	—	—	—
		40 µL	—	100 µL	—	1241	200	—	—	—
			100 µL	—	—	1242	1000	—	—	—
	70-188NDMN-40	50 µL	20,000 ug/ml	—	—	1243	2000	—	—	—
		100 µL	—	—	—	1244	10.0	—	—	—
	70-184NDMN-39	100 µL	100 ug/ml	—	—	1245	1.00	—	—	—
			10 ng/ml	—	—	1246	80	—	—	—

CHAIN OF CUSTODY DOCUMENTATION

000085

Report Name: Entry

Job #: A314211

Page #: 1

Client: APPLIED P & CH LABORATORY
13769 MAGNOLIA AVE
CHINO CA
USA 91710-7018

Inv Attn: Kenny Chan

Printed: 2003/04/25 Version 1
Reception Date: 2003/04/25
Reception Time: 17:03
Login Date: 2003/04/25
REQUIRED DATE: 2003/05/16
Quote Number: A20018

Report: same

Attention: Kenny Chan
Phone: (909) 590 - 1828 Ext: 263
Fax: (909) 902 - 1661

P.O. Number:
Project Number: JPL

Project Coordinator: AGY

Client Number: 9417
Rpt Address #:
Q.C. Samples: No

Maxxam Client
Number Sample ID
997113-01R MW-4-1

Cont's	Code	OK	Date	Sampling Matrix	Test Codes
2-ILAG	WWI-512	Yes	2003/04/21	LIQ	W-NDMA-L

Remarks: EPA 1625. LEVEL 4

Note Remarks:

EPA Level 4 reporting (15% surcharge).
For Extract & Hold samples, charge U\$175

000086



SAMPLE RECEIPT RECORD

Way Bill #838068291057
Received 2003-04-25 1:00M
Courier Company FEDEX
Assigned Job # A314211

Project #JPL

Client Name Applied P and CH
Project Contact Kenny Chan

Verification of Sample conditions

Observation	Yes	No
Were custody seals on the outside of the cooler?	✓	
Was the Chain of custody inside the cooler?	✓	
Was the Chain of Custody properly filled out?	✓	
Was ice or ice packs used to keep samples cool?	✓	
Temperature of the cooler or blank.	1.0°C	
Was the temperature acceptance limit of <8°C met?	✓	
Were the sample containers in good condition?	✓	

If the answer to any of the questions above is NO, a sample exceptions report must be completed.

Date Logged in 2003-04-25


Sample Entry
Tracy Strelau

Maxxam Analytics Inc

50 Bathurst Dr, Unit #12
Waterloo, ON
N2V 2C5
(519) 747 2575 ext.21

Comments:

000088

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

GEOFON, Inc.

Attention: Leo Williamson

22632 Golden Spring Dr Ste 270

Diamond Bar 91765

Tel: (909)396-7662 Fax: (909)396-1455

APCL Analytical Report

Service ID #: 801-033393 Received: 05/27/03

Collected by: Extracted: N/A

Collected on: 05/27/03 Tested: N/A

Reported: 06/20/03

Sample Description: Water

Project Description: 04-4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				MW-13	MW-16
				03-03393-1	03-03393-2

NITROSAMINES BY HRMS (a)

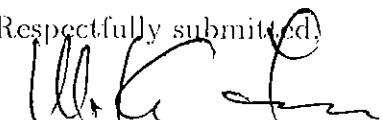
PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit. "—" Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Subcontracted to Maxxam Analytics Inc. See attached.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

GEOFON

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Sharon Wells 0035

IN CARPOA, SUITE 270
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

GEOPON LAB COORDINATOR		LAB COORDINATOR'S PHONE		LAB COORDINATOR'S FAX		LABORATORY SERVICE ID		LABORATORY CONTACT		MAIL REPORT (COMPANY NAME)	
PROJECT NAME: PR UN MON-2403	PROJECT LOCATION: MW-13 Inv-16	PROJECT NUMBER: 64-4428.10	PROJECT FAX: (909) 396-1455	LABORATORY PHONE: (909) 396-6228	LABORATORY FAX: (909) 396-1498	Kenny Chan	GEOFON, INC.	RECIPIENT NAME: Lee W. Williamson	ADDRESS: 22632 Golden Springs Dr. #270	CITY, STATE AND ZIPCODE: Pasadena, CA 91104	
PROJECT CONTACT: Lee W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	CITY, STATE AND ZIPCODE: US NAVY SUR DIV China Aq 9110	CLIENT: US NAVY SUR DIV China Aq 9110	PROJECT MANAGER: Lee W. Williamson	PROJECT MANAGER'S PHONE: (909) 396-7662	PROJECT MANAGER'S FAX: (909) 396-7662	QC Level: III Normal	T.A.T.: 870 min (14-72 hours)	Analyses: Q70 min (14-72 hours)	Comments: 3393	
Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses	Comments	
1	MW-13	H₂O	5/27/03	8:30	NONE	2L	III	Normal	X X		
2	MW-16			10:50				X	X		
3											
4											
5											
6											
7											
8											
9											
10											
SAMPLES COLLECTED BY: Lee W. Williamson											
COURIER AND AIR BILL NUMBER:											
RELINQUISHED BY:											
RECEIVED BY: S. Schubert DATE: 5-27-03 TIME: 12:45											
RECEIVED BY: S. Schubert DATE: 5-27-03 TIME: 13:05											

Applied P & Ch Laboratory

13760 Magnolia Ave., Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID:

3393

Client Name/Project:

Gebz / JPL

1. Sample Arrival

Date/Time Received

5/27/03 1330

Date/Time Opened

5/27/03 1330

By (name):

Kenny Chan

Custody Transfer: Client

Golden State

UPS

US Mail

FedEx

APCL Emp: *Scott B.*

2. Chain-of-Custody (CoC)

With Samples? Faxed?

Client has Copy? Signed, dated? By:

Project ID?

Analyses Clear?

Hold Samples?

on Hold _____

Received *2*

CoC/Docs Zip-Locked under lid?

Compos.#: _____

#Samples OK?

Discrepancies? Client notified?

Response (attach docs): _____

3. Shipping Container/Cooler

Cooler Used? # of _____ Cooled by:

Ice Blue Ice Dry Ice None

Temp °C *38*

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? Absent Intact Tampered?

4. Sample Preservation

pH <2

pH >12

If Not, pH = _____

Preserved by: Client APCL Third Party

5. Holding-time Requirements

pH 24hr

BACT 6/24hr

Cr^{VI} 24hr

NO₃ 48hr

BOD 48hr

Cl₂ ASAP

Turbidity 48hr

DO ASAP

Fe(II) ASAP

HT Expired?

Client notified?

6. Sample Container Condition

Intact? Broken?

Documented?

Number: _____

Type: plastic

glass

Tube: brass/SS Tedlar Bag

Quantity OK?

Leaking?

Anomaly?

Caps tight?

Air Bubbles?

Anomaly?

Labels: Unique ID?

Date/Time

Preserved?

7. Turn Around Time

RUSH TAT: _____

Std (7-10 days) Not Marked

8. Sample Matrix

Drinking H₂O Other Liq

Soil

Wipe

Polymer

Air

Other: _____

Ground H₂O Sludge

Filter

Oil/Petro

Paint

W. Water

Extract Unknown

9. Pre-Login Check List Completed & OK?

ALL OK? (if not, attach docs) Client Contact? (Name: _____) Date/Time: _____

Received/Checked by: *Kenny Chan* Date: 27 May 2003 Time: 7:34 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

03-03393 (0470_ 150) (2202777_ 150)

05/27/03

Part 1: General Information

<input type="checkbox"/> Company Information	Name:	GEOFON, Inc.
	Address:	22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765
<input type="checkbox"/> Project Information	Project Description:	JPL
	Project #:	04-4428.10
<input type="checkbox"/> Billing Information	P.O. #:	
	Bill Address:	22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765
	Lab Project ID:	
	Client Database #:	3
<input type="checkbox"/> Receiving Information	Who Received Sample?	Kenny Chan
	Receiving Date/Time:	05/27/03 1330
	COC No.	
<input type="checkbox"/> Shipping Information	Shipping Company	APCL pick up
	Packing Information:	Cooler/Ice Chester
	Cooler Temperature:	3.8 °C
<input type="checkbox"/> Container Information	Container Provider:	Client
<input type="checkbox"/> Sampling Information	Sampling Person:	
	Sampling Company:	Client
<input type="checkbox"/> Turn-Around-Time Option:	Rush 5 working day(s)	
<input type="checkbox"/> QC Option:	NEESA C	
<input type="checkbox"/> Disposal Option:	Not specify	

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL	Matrix	Cont- tainer	Preser- vative	Vol, ml	# of Am. g Replica	Condition G, L, B	Collected mmddyy	Composite Hold ?	Group	TAT Days
1	MW-13	NDMA	03-03393-1	W	G		1000	2	G	052703	N	0	7 <input type="checkbox"/>
2	MW-16	NDMA	03-03393-2	W	G		1000	2	G	052703	N	0	7 <input type="checkbox"/>

Part 3: Analysis Information

Test Items:

Customized-13, Sub-contract

Seq. #	Client's Sample ID (as given on COC)	Sample Sub-ID	APCL	Sample ID	Matrix	CUSTOM
1	MW-13	NDMA		03-03393-1	W	X <input type="checkbox"/>
2	MW-16	NDMA		03-03393-2	W	X <input type="checkbox"/>

Login By En-Yu Paul Kou

Check By PY