

S96T005350 SAM N2

42.092 mg

Rate: 10.0 °C/min

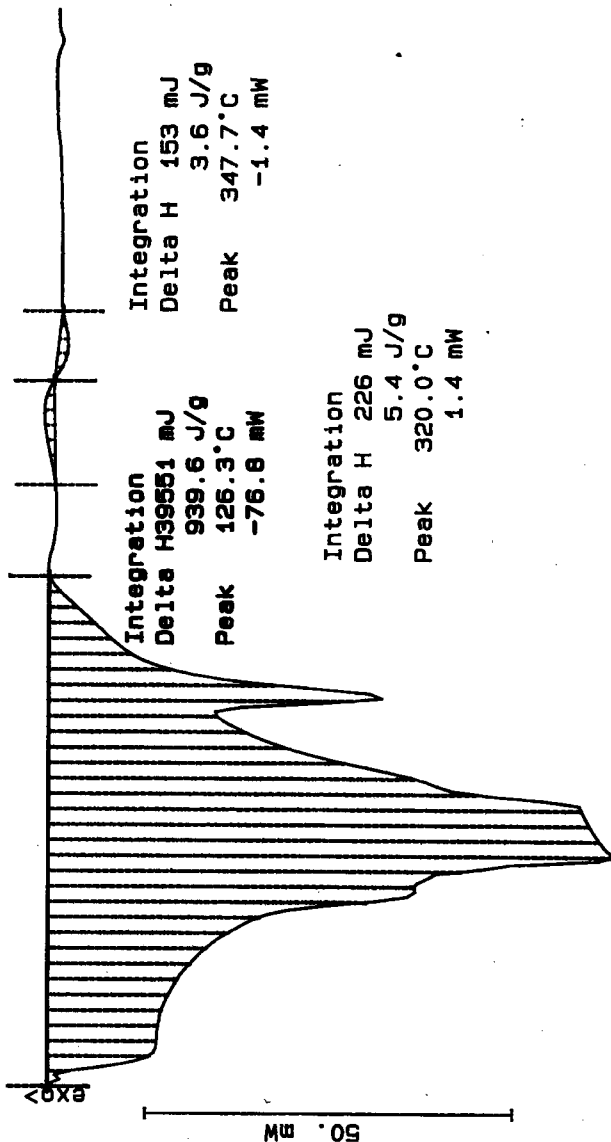
File: 00092.001

Ident: 0.0

DSC METTLER

27-Oct-96

222-S Laboratory



10-27-96

Raeleen Duen

°C

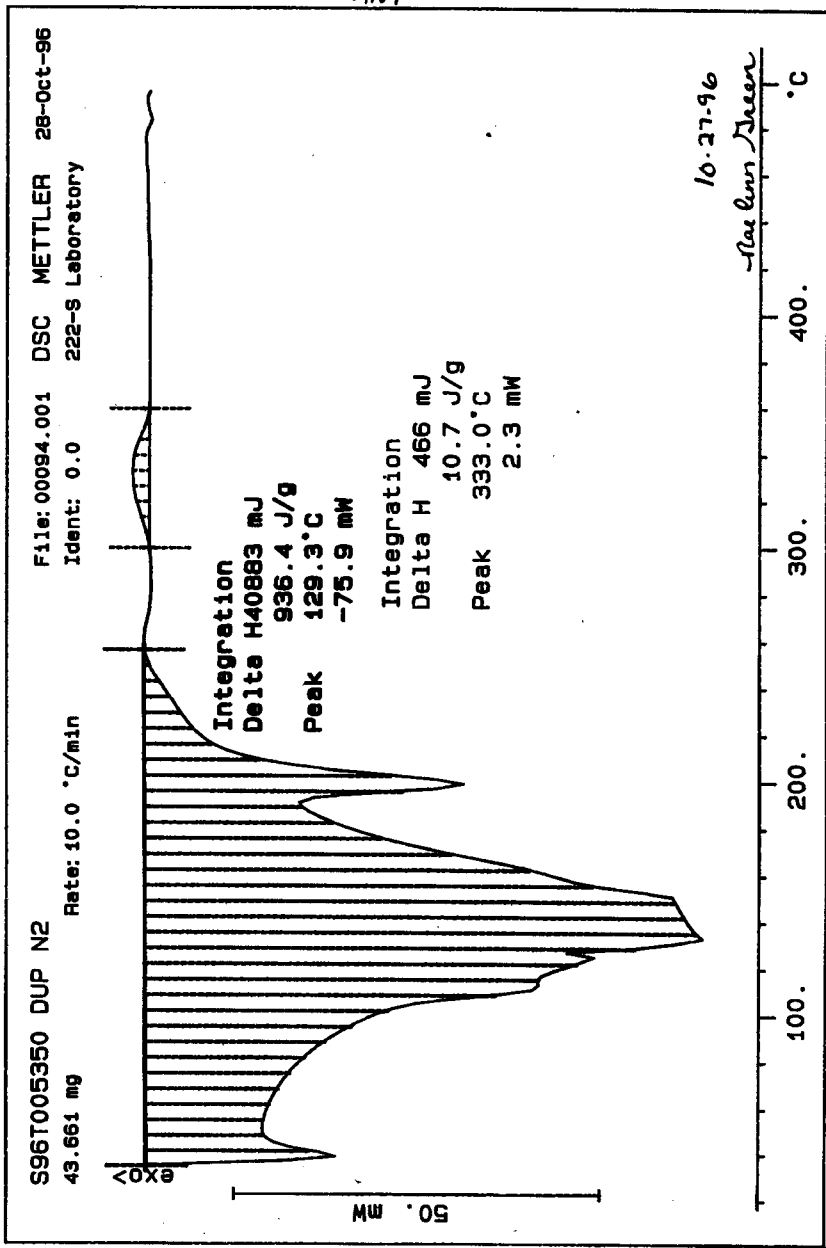
400.

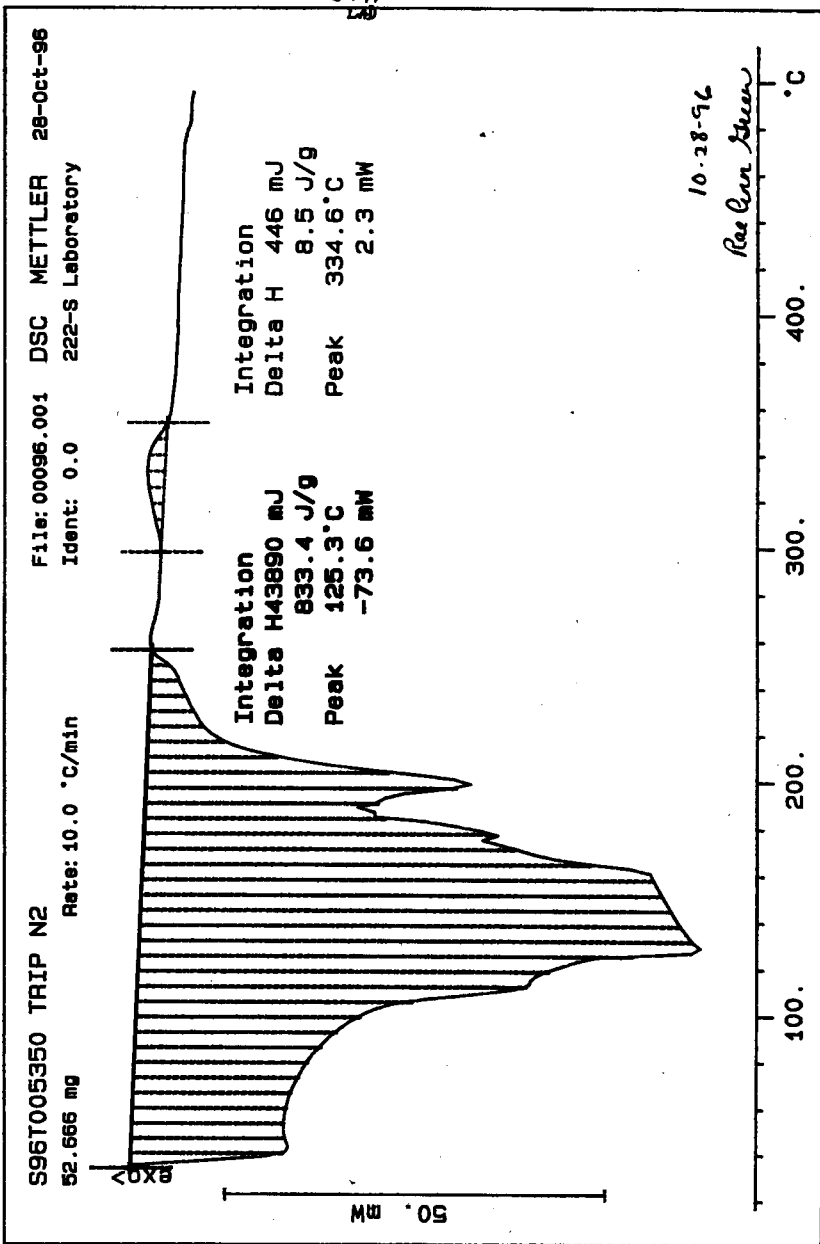
300.

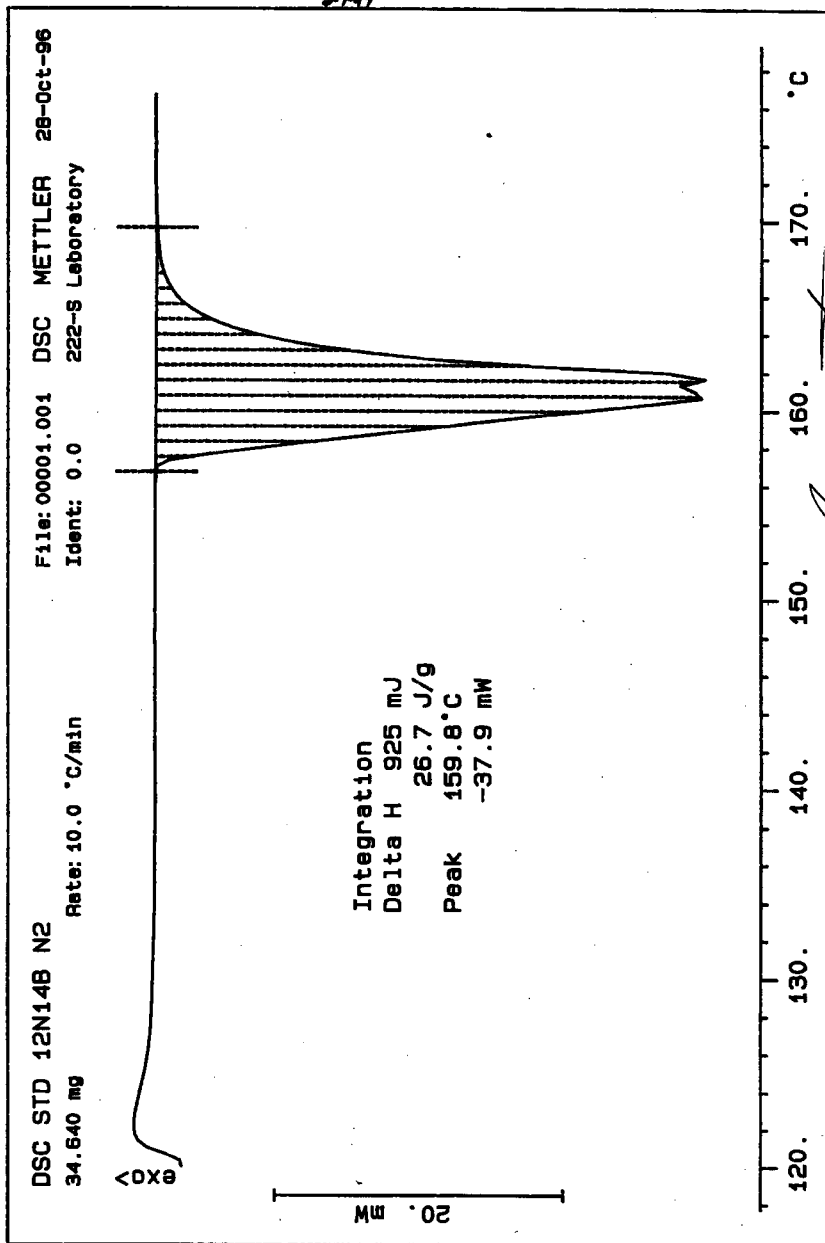
200.

100.

50. mW

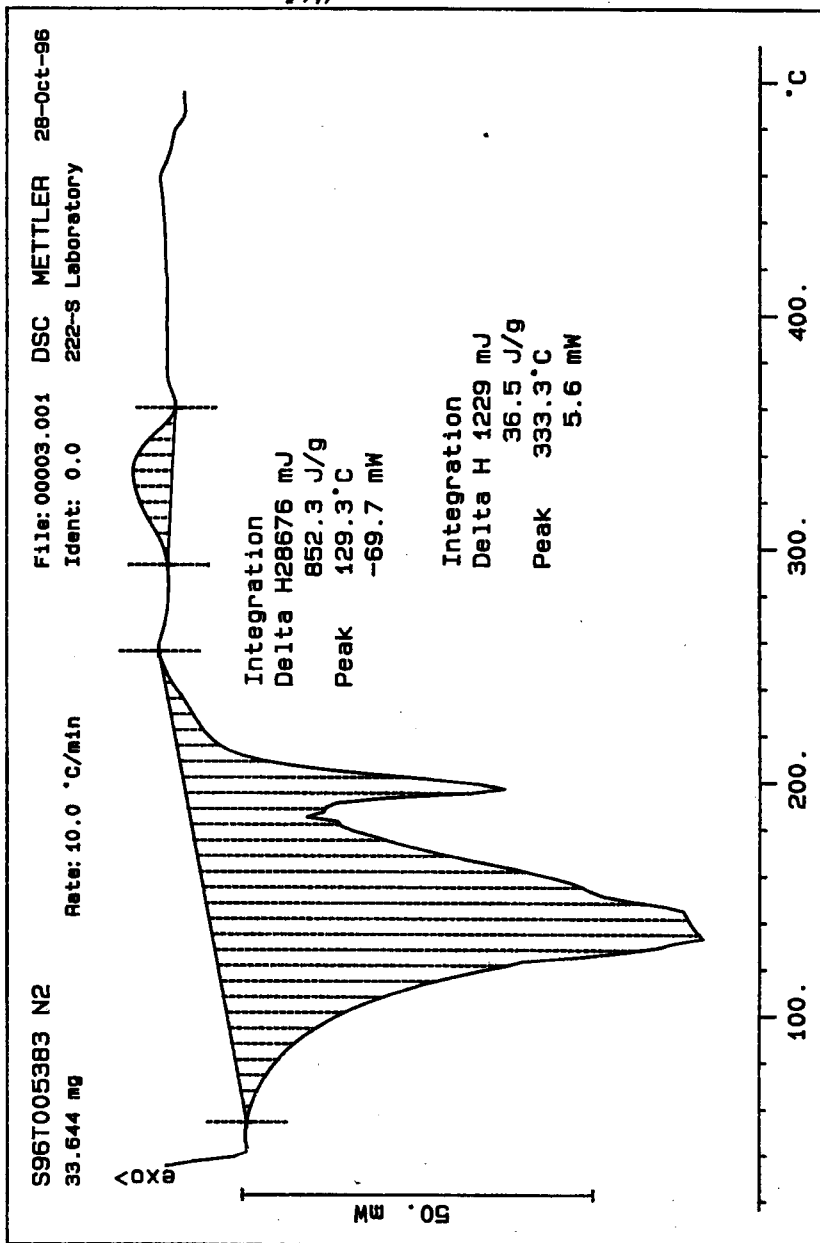


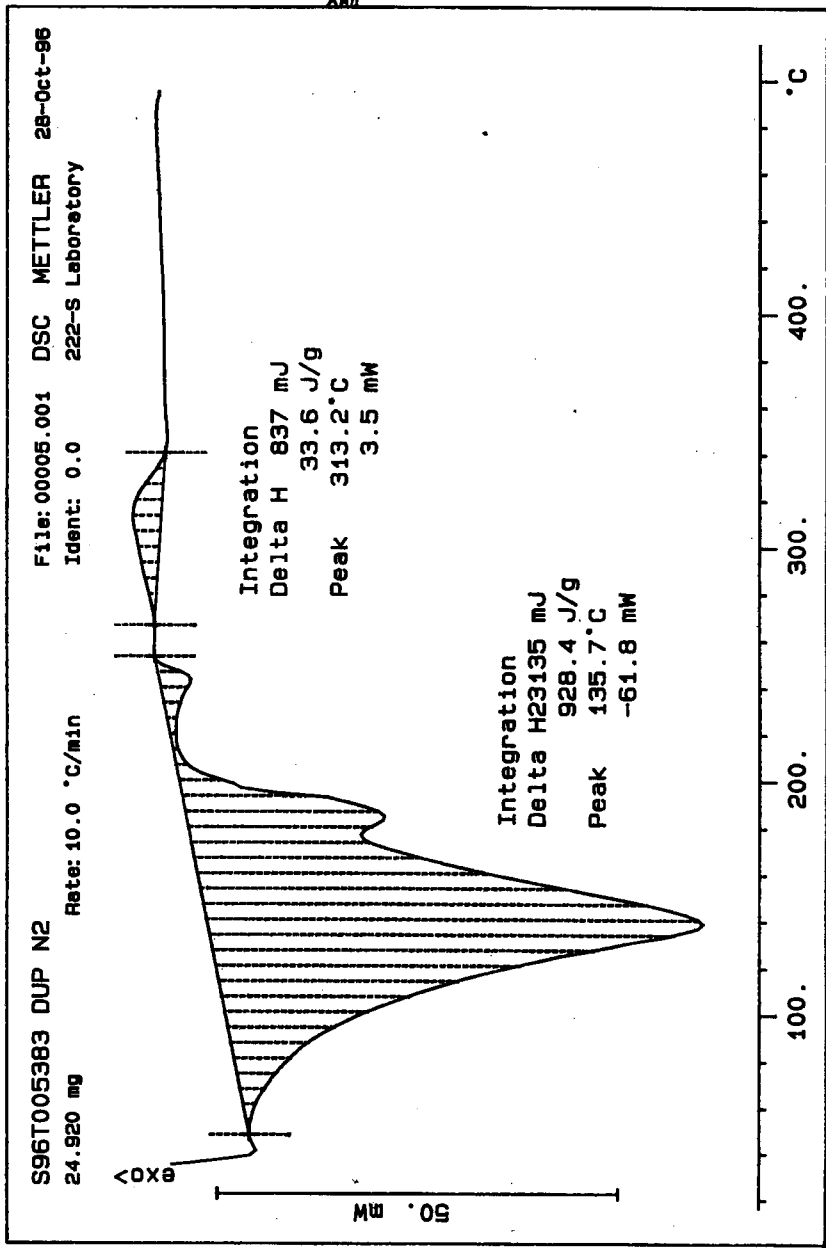




10-28-96

[Signature]





LABCORE Data Entry Template for Worklist# 14244

Analyst: als Instrument: DSC0 1 Book # 12N14B

Method: LA-514-113 Rev/Mod C-1

Worklist Comment: BY-111 DSC, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>25.8</u>	<u>*</u>	<u>N/A</u> Joules/g
96001336	BY-111	2 SAMPLE	S96T005384	0	DSC-01	SOLID	<u>N/A</u>	<u>25.4</u>		Joules/g
96001336	BY-111	3 DUP	S96T005384	0	DSC-01	SOLID	<u>25.4</u>	<u>23.1</u>	<u>N/A</u>	Joules/g

Final page for worklist # 14244

JLS 10-22-96
Analyst Signature Date

Leisha Mack 10-24-96
Analyst Signature Date

Validated/Verified by
Blandina Valenzuela
10-30-96

Data Entry Comments:

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 322 TO 324

DSC STD 12N14B N2
34.640 mg

Rate: 10.0 °C/min

File: 00001.001

DSC METTLER

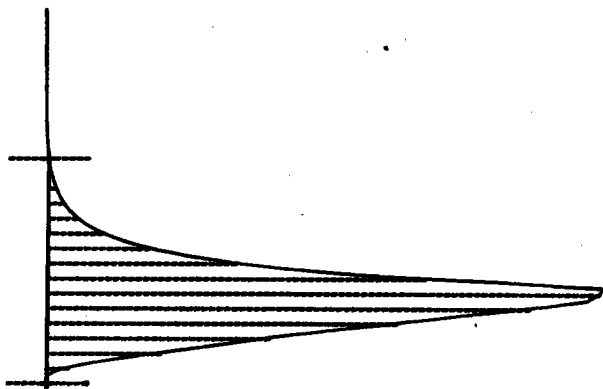
21-Oct-96

Ident: 0.0 222-S Laboratory

exo

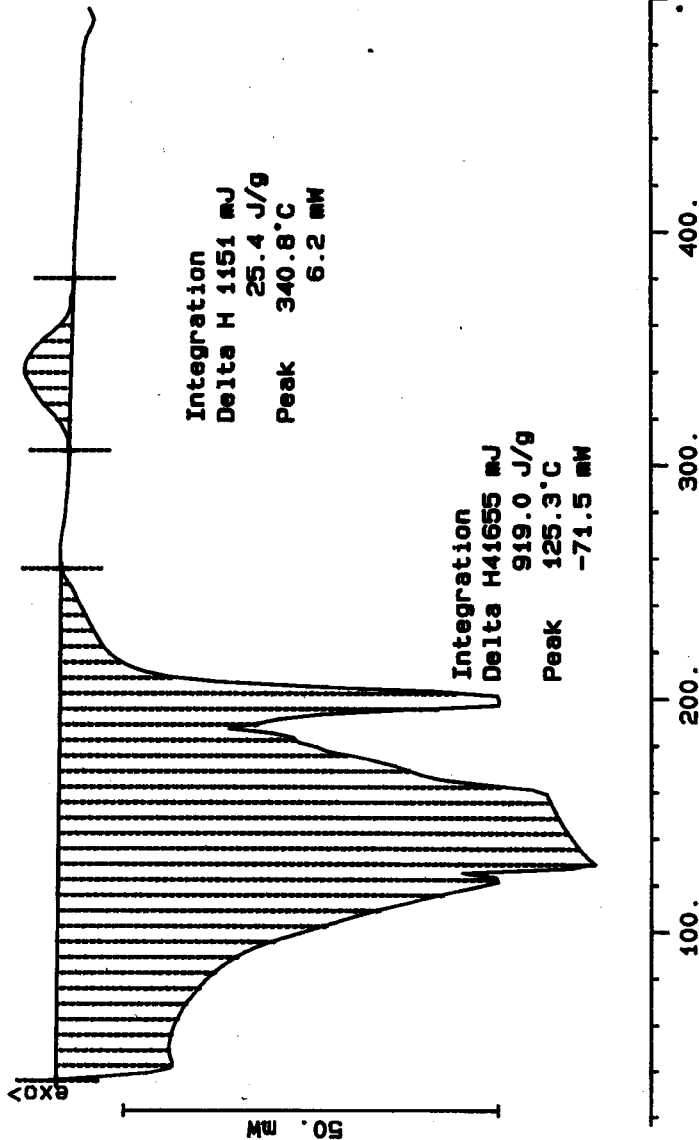
Integration
Delta H 893 mJ
25.8 J/g
Peak 159.8°C
-41.3 mW

20. mW



120. 130. 140. 150. 160. 170. °C
JAH SP 10-22-96

S96T005384 N2
45.329 mg
Rate: 10.0 °C/min
File: 00006.001
Ident: 0.0
DSC METTLER
222-S Laboratory
22-Oct-96



S96T005384 DUP N2

21.870 mg

Rate: 10.0 °C/min

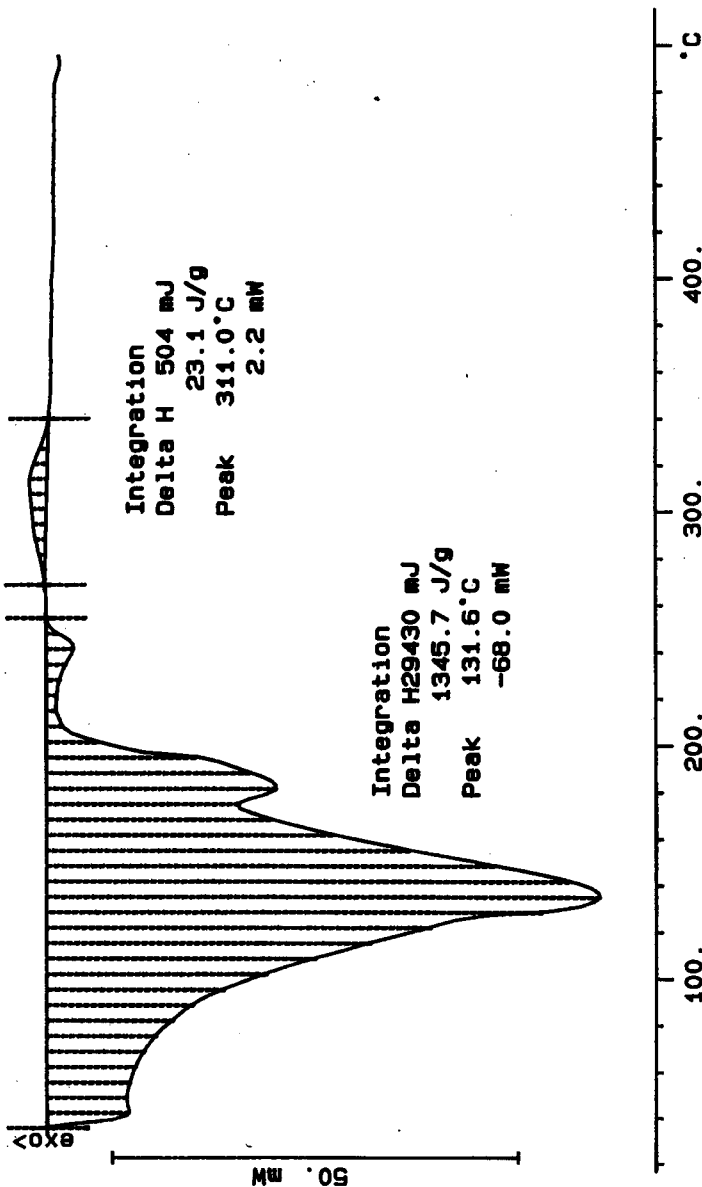
File: 00008.001

Ident: 0.0

DSC METTLER

22-Oct-96

222-S Laboratory



LABCORE Data Entry Template for Worklist# 14731

Analyst: BOV Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for BY-111. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96001257	BY-111	1 SAMPLE	S96T005148	0	DSC-02	SOLID	N/A	38.4		Joules/g Dry
96001257	BY-111	2 DUP	S96T005148	0	DSC-02	SOLID	38.4	64.6	N/A	Joules/g Dry
96001257	BY-111	3 SAMPLE	S96T005301	0	DSC-02	SOLID	N/A	60.6		Joules/g Dry
96001257	BY-111	4 DUP	S96T005301	0	DSC-02	SOLID	60.6	55.2	N/A	Joules/g Dry
96001257	BY-111	5 SAMPLE	S96T005310	0	DSC-02	SOLID	N/A	0		Joules/g Dry
96001257	BY-111	6 DUP	S96T005310	0	DSC-02	SOLID	0	0	N/A	Joules/g Dry
96001336	BY-111	7 SAMPLE	S96T005321	0	DSC-02	SOLID	N/A	0		Joules/g Dry
96001336	BY-111	8 DUP	S96T005321	0	DSC-02	SOLID	0	0	N/A	Joules/g Dry
96001257	BY-111	9 SAMPLE	S96T005157	0	DSC-02	SOLID	N/A	55.1		Joules/g Dry
96001257	BY-111	10 DUP	S96T005157	0	DSC-02	SOLID	55.1	26.9	N/A	Joules/g Dry
96001257	BY-111	11 SAMPLE	S96T005158	0	DSC-02	SOLID	N/A	16.8		Joules/g Dry
96001257	BY-111	12 DUP	S96T005158	0	DSC-02	SOLID	16.8	17.3	N/A	Joules/g Dry
96001257	BY-111	13 SAMPLE	S96T005166	0	DSC-02	SOLID	N/A	103		Joules/g Dry
96001257	BY-111	14 DUP	S96T005166	0	DSC-02	SOLID	103	43.5	N/A	Joules/g Dry
96001257	BY-111	15 SAMPLE	S96T005167	0	DSC-02	SOLID	N/A	0		Joules/g Dry
96001257	BY-111	16 DUP	S96T005167	0	DSC-02	SOLID	0	0	N/A	Joules/g Dry
96001257	BY-111	17 SAMPLE	S96T005304	0	DSC-02	SOLID	N/A	312		Joules/g Dry
96001257	BY-111	18 DUP	S96T005304	0	DSC-02	SOLID	312	286	N/A	Joules/g Dry

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 14731

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
-------	---------	--------	---------	-----	----------------	--------	--------	-------	----	------

Final page for worklist # 14731

Blandina Valenzuela 11-11-96
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

BY-III dry DSC

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96TD05148	29.0	31.43	38.38
5148D	48.8	31.43	64.58
5301	50.4	16.29	60.57
5301D	46.2	16.29	55.19
5310	Ø	42.64	Ø
5310D	Ø	42.64	Ø
5321	Ø	.57	Ø
5321D	Ø	.57	Ø
5157	46.9	31.43	55.1
5157D	28.9	31.43	26.9
5158	16.8	35.81	16.8
5158D	16.8	35.81	17.3
5166	16.3	30.23	103.3
5166D	16.3	30.23	93.5
5167	Ø	30.16	Ø
5167D	Ø	30.16	Ø
5304	227.1	27.10	311.5
5304D	209.2	27.10	285.6

LABCORE Data Entry Template for Worklist# 14732

Analyst: BDY Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for BY-111. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
96001336	BY-111	1 SAMPLE	S96T005335	0	DSC-02	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g Dry
96001336	BY-111	2 DUP	S96T005335	0	DSC-02	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	3 SAMPLE	S96T005336	0	DSC-02	SOLID	<u>N/A</u>	<u>17.6</u>		Joules/g Dry
96001336	BY-111	4 DUP	S96T005336	0	DSC-02	SOLID	<u>17.6</u>	<u>21.2</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	5 SAMPLE	S96T005342	0	DSC-02	SOLID	<u>N/A</u>	<u>120</u>		Joules/g Dry
96001336	BY-111	6 DUP	S96T005342	0	DSC-02	SOLID	<u>120</u>	<u>58.4</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	7 SAMPLE	S96T005349	0	DSC-02	SOLID	<u>N/A</u>	<u>39.6</u>		Joules/g Dry
96001336	BY-111	8 DUP	S96T005349	0	DSC-02	SOLID	<u>39.6</u>	<u>14.5</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	9 SAMPLE	S96T005350	0	DSC-02	SOLID	<u>N/A</u>	<u>9.36</u>		Joules/g Dry
96001336	BY-111	10 DUP	S96T005350	0	DSC-02	SOLID	<u>9.36</u>	<u>18.5</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	11 SAMPLE	S96T005383	0	DSC-02	SOLID	<u>N/A</u>	<u>67.9</u>		Joules/g Dry
96001336	BY-111	12 DUP	S96T005383	0	DSC-02	SOLID	<u>67.9</u>	<u>63.5</u>	<u>N/A</u>	Joules/g Dry
96001336	BY-111	13 SAMPLE	S96T005384	0	DSC-02	SOLID	<u>N/A</u>	<u>50.0</u>		Joules/g Dry
96001336	BY-111	14 DUP	S96T005384	0	DSC-02	SOLID	<u>50.0</u>	<u>45.5</u>	<u>N/A</u>	Joules/g Dry
96001257	BY-111	15 SAMPLE	S96T005298	0	DSC-02	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g Dry
96001257	BY-111	16 DUP	S96T005298	0	DSC-02	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g Dry
96001257	BY-111	17 SAMPLE	S96T005314	0	DSC-02	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g Dry
96001257	BY-111	18 DUP	S96T005314	0	DSC-02	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g Dry

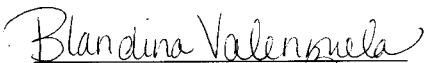
Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 14732

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
96001336	BY-111	19 SAMPLE	S96T005346	0	DSC-02	LIQUID	N/A	35.1		Joules/g Dry
96001336	BY-111	20 DUP	S96T005346	0	DSC-02	LIQUID	35.1	31.0	N/A	Joules/g Dry
96001336	BY-111	21 SAMPLE	S96T005357	0	DSC-02	LIQUID	N/A	37.0		Joules/g Dry
96001336	BY-111	22 DUP	S96T005357	0	DSC-02	LIQUID	37.0	22.8	N/A	Joules/g Dry

Final page for worklist # 14732


Analyst Signature

Date 11-11-96

Analyst Signature

Date

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

BY-III ²⁷⁹⁷ dry DSC

CALCULATED DRY DSC			
SAMPLE NO.	DSC RESULT (J/g)	TGA RESULT (% water)	DRY DSC RESULT
S96T005335	0	23.76	0
5335D	0	23.76	0
5336	8.2	49.41	17.59
5326D	0.7	49.41	21.2
5342	57.5	52.09	120.
5342D	57.5	52.09	58.4
5349	30.2	49.41	39.6
5349D		49.41	14.5
5350	5.4	49.41	9.36
5350D	10.7	49.41	18.5
5383	36.5	46.22	67.9
5383D	33.6	46.22	63.53
5384	25.4	49.02	50.02
5384D	22.1	49.02	45.49
5298	0	27.61	0
5298D	0	27.61	0
5314	0	54.05	0
5314D	2	54.05	0
5346	16.2	52.85	35.13
5346D	14.3	52.85	31.01
5357	17.2	52.47	36.97
5357D	10.6	52.47	22.78

5350 0 42.29 14.7

LABCORE Data Entry Template for Worklist# 14209

Analyst: SMF Instrument: TGA0 3 Book # 82N8A

Method: LA-514-114 Rev/Mod D-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	<u>59.2</u>	<u>58.60</u>	<u>N/A</u>	%
96001257	BY-111	2 SAMPLE	S96T005298	0	TGA-03	LIQUID	<u>N/A</u>	<u>99.69</u>		%
96001257	BY-111	3 DUP	S96T005298	0	TGA-03	LIQUID	<u>99.69</u>	<u>99.53</u>	<u>N/A</u>	%
96001257	BY-111	4 SAMPLE	S96T005314	0	TGA-03	LIQUID	<u>N/A</u>	<u>54.28</u>		%
96001257	BY-111	5 DUP	S96T005314	0	TGA-03	LIQUID	<u>54.28</u>	<u>53.81</u>	<u>N/A</u>	%

Final page for worklist # 14209

See attached for signatures
Analyst Signature for Date 10-29-96
BOY

Frank Mack 10-30-96
Analyst Signature Date

Verified/Validated by
Blandina
Valenzuela
11-1-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 14209

Analyst: SNE Instrument: TGA0 Book # 82N8A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID	_____	_____	N/A	%
96001257	BY-111	2 SAMPLE	S96T005298	0	TGA-01	LIQUID	N/A	_____	_____	%
96001257	BY-111	3 DUP	S96T005298	0	TGA-01	LIQUID	_____	_____	N/A	%
96001257	BY-111	4 SAMPLE	S96T005314	0	TGA-01	LIQUID	N/A	_____	_____	%
96001257	BY-111	5 DUP	S96T005314	0	TGA-01	LIQUID	_____	_____	N/A	%

Final page for worklist # 14209

Susie M. Dutton 10-23-96
Analyst Signature Date

Analyst Signature Date

TGA-03 instrument
was used.

10-29-96

Blundina
Valenzuela

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

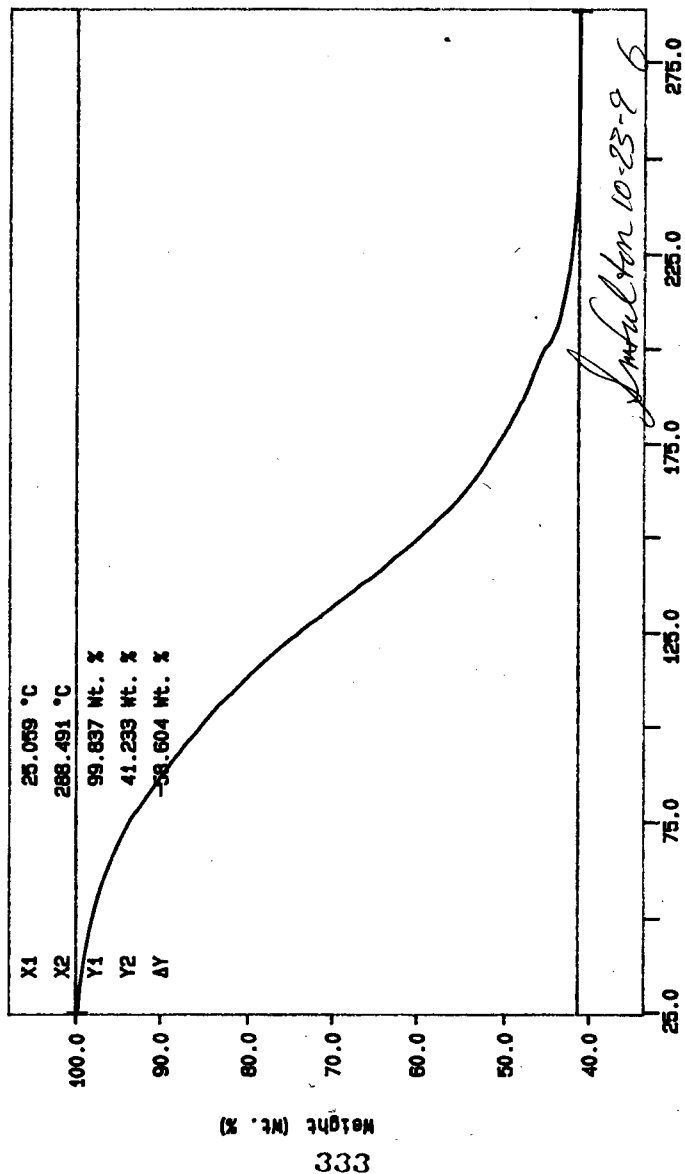
Curve 1: TGA

File Info: TER102301 Wed Oct 23 05:31:12 1996

Sample Weight: 31.345 mg

TGA STD 82NB-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 333 TO 337.



N2 10C/MIN

TIME: 35.8 s

Temperature (°C)

0.0 min RATE: 10.0 C/min

JD SPELLMAN

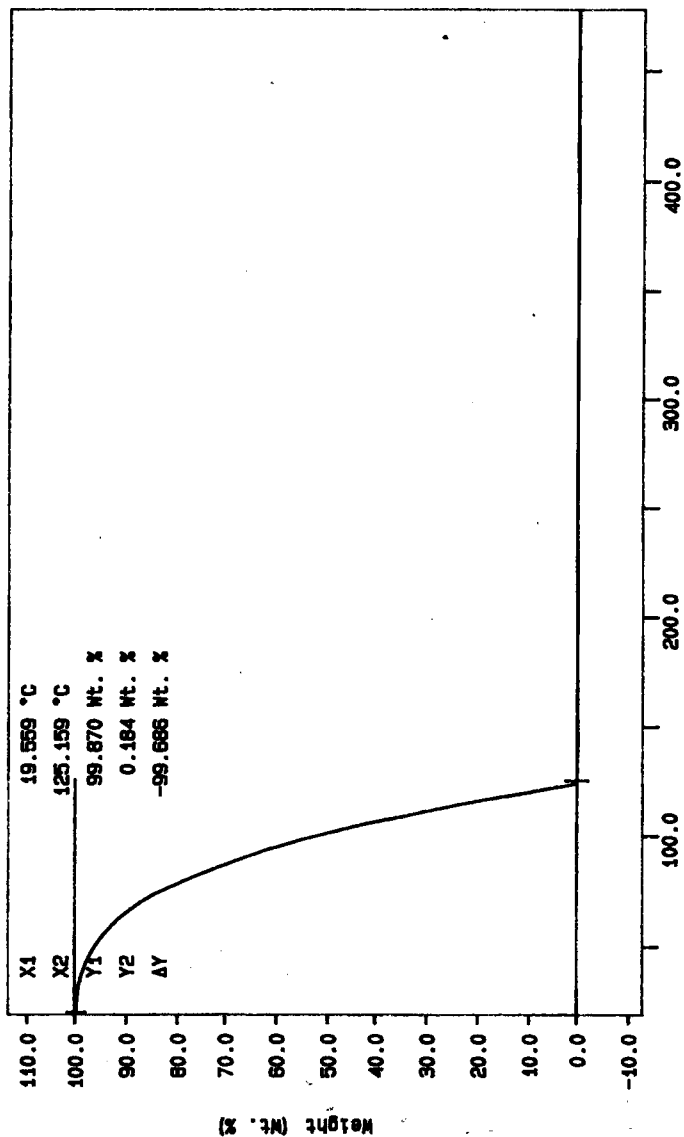
PERKIN-ELMER

7 Series Thermal Analysis System

Wed Oct 23 20:45:24 1996

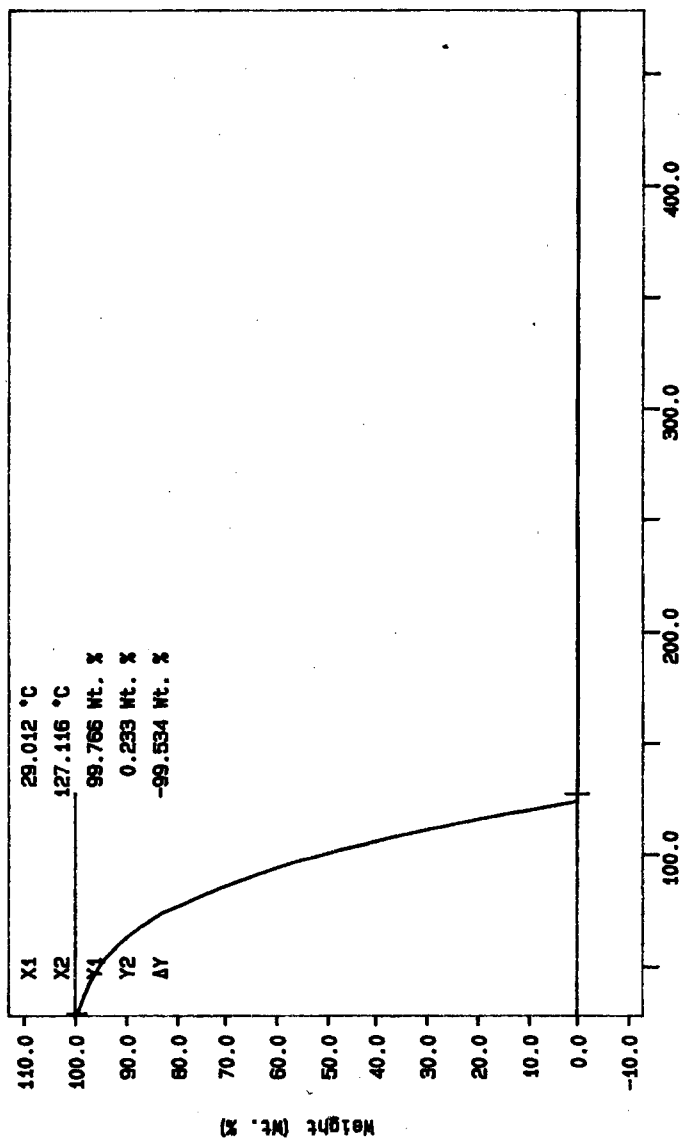
Curve 1: TGA
 File info: SAM102307 Wed Oct 23 20:49:00 1996
 Sample Weight: 9.747 mg
 898T005298

HNF
 LAD-WHC-SD-WM-UP-203, REV. C
 2217



10C/MIN N2
 TIME 55.8 s
 898T005298
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Oct 23 20:58:51 1996

Curve 1: TSA
 File Info: SAM102308 Wed Oct 23 21:57:28 1996
 Sample Weight: 9.895 mg
 S96T005298 DUF



SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Oct 23 22:05:33 1996

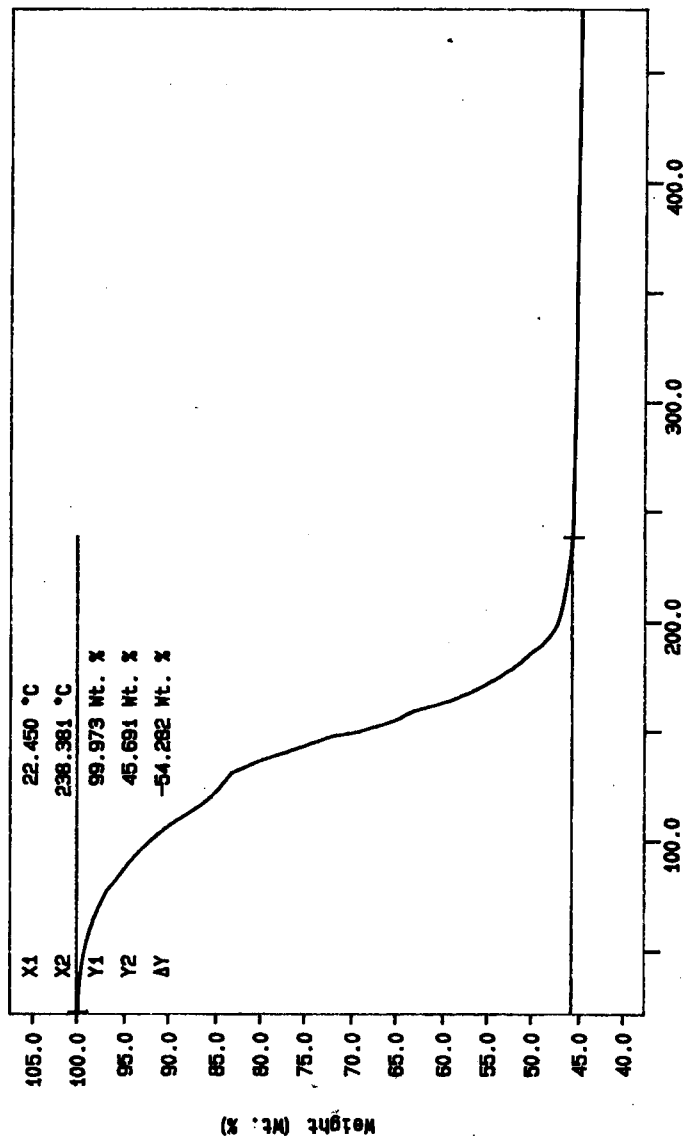
10C/MIN N2
 TIME: 55.9 g
 55.9 g
 0.0 MIN RATE: 10.0 g/min

Curve 1: TGA

File Info: SAM102309 Thu Oct 24 00:27:04 1996

Sample Weight: 25.652 mg

998T005314



10C/MIN N2

TIME: 00:08

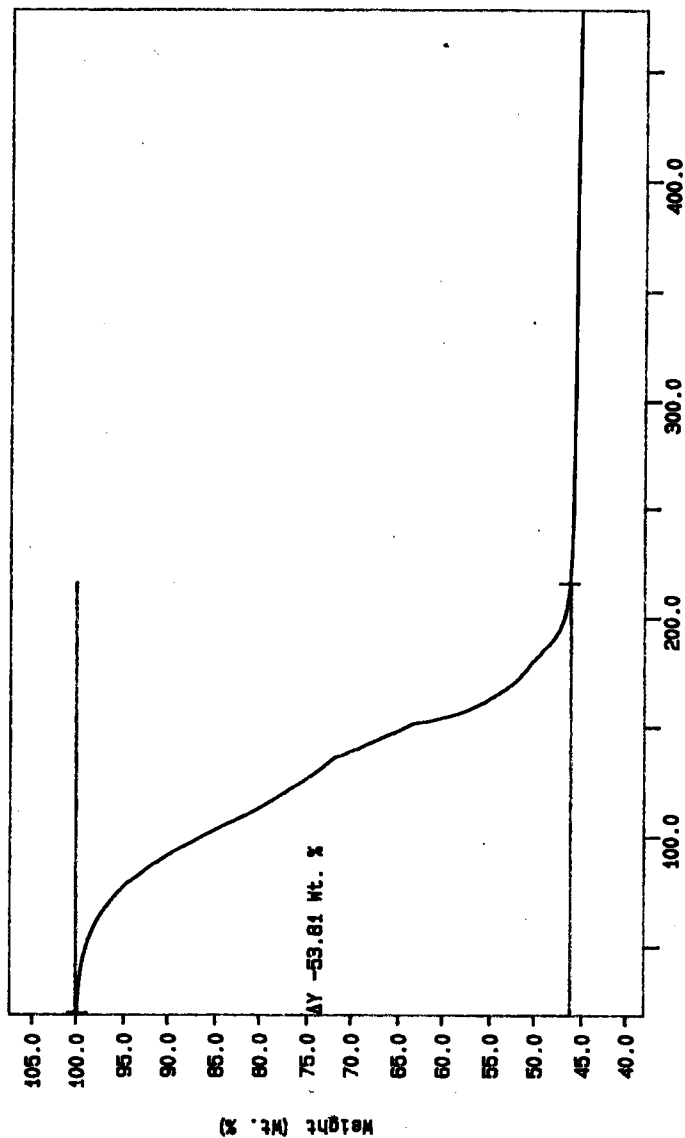
TIME: 0.0 min RATE: 10.0 C/min

Temperature (°C)

SM FULTON
PERKIN-ELMER

7 Series Thermal Analysis System
Thu Oct 24 00:31:16 1996

Curve 1: TGA
 File Info: SAM102310 Thu Oct 24 03:26:45 1996
 Sample Weight: 16.617 mg
 S96T006314 DUP



10C/MIN N2
 TIME: 00:08
 0.0 min RATE: 10.0 C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Oct 29 06:42:34 1996

LABCORE Data Entry Template for Worklist# 14210

Analyst:

RGA

Instrument: TGA0

1

Book #

82 N8A

Method: LA-560-112 Rev/Mod

C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID	<u>59.2</u>	<u>58.48</u>	*	N/A %
96001336	BY-111	2 SAMPLE	S96T005346	0	TGA-01	LIQUID	<u>N/A</u>	<u>53.96</u>		%
96001336	BY-111	3 DUP	S96T005346	0	TGA-01	LIQUID	<u>53.96</u>	<u>53.79</u>		N/A %
96001336	BY-111	4 SAMPLE	S96T005357	0	TGA-01	LIQUID	<u>N/A</u>	<u>53.56</u>		%
96001336	BY-111	5 DUP	S96T005357	0	TGA-01	LIQUID	<u>53.56</u>	<u>53.38</u>		N/A %

Final page for worklist # 14210

Analyst Signature

Date

10-26-96

Analyst Signature

Date

10/30/96

Verified/Validated by

Blandina

Valenzuela

10-31-96

Data Entry Comments:

S96T005346 results are the sum of two weight loss steps

S96T005357 results are the sum of two weight loss steps.

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

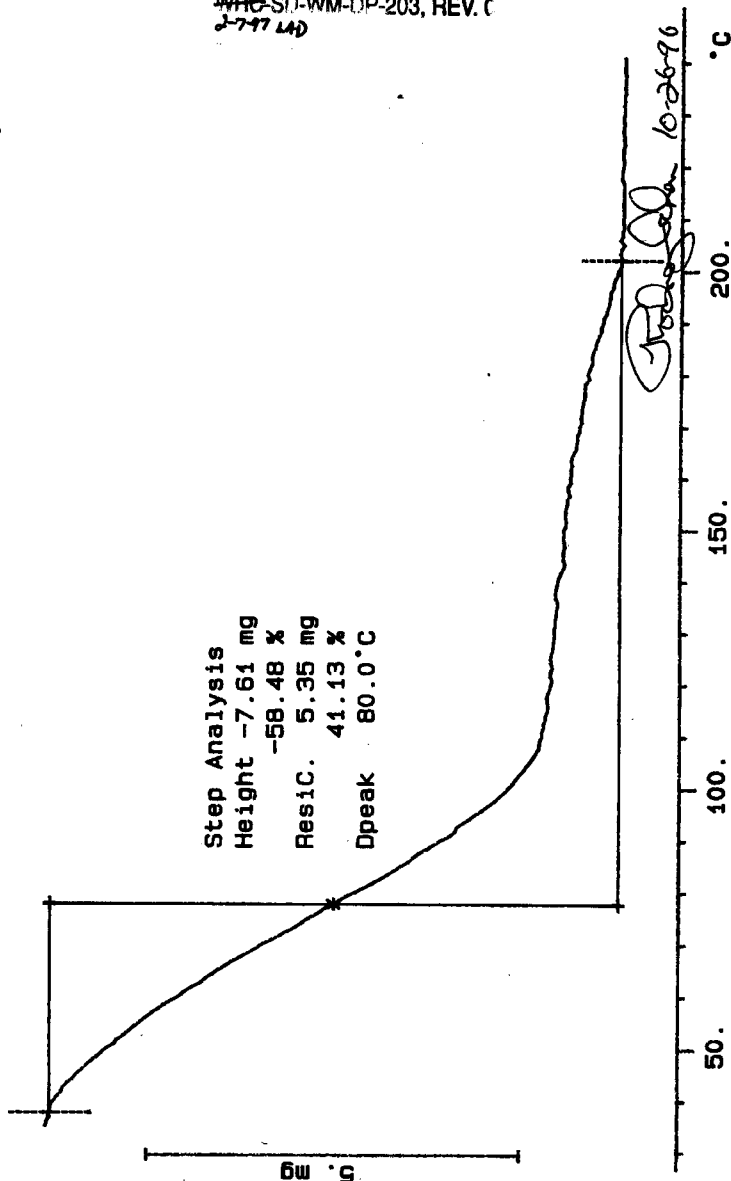
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 339 TO 343.

82N8-A N2
13.018 mg

Rate: 10.0 °C/min

File: 00047.001 TG METTLER 26-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height -7.61 mg
-58.48 %
ResidC. 5.35 mg
41.13 %
Dpeak 80.0 °C



HVF
WHO-SD-WM-DP-203, REV. C
2-7-97 LAD

S96T005346 N2

37.352 mg

Rate: 10.0 °C/min

File: 00051.001

TG METTLER

26-Oct-86

Ident: 0.0

222-S Laboratory

Step Analysis

Height-17.79 mg

-47.63 %

ResidC. 19.50 mg

52.20 %

Step Analysis

Height -2.37 mg

-6.33 %

ResidC. 17.13 mg

45.86 %

Dpeak 191.0 °C

10. mg

100.

200.

300.

400.

°C

HAUF
4410
LAD
2797

SD-WM-DP-203, REV. C

S96T005346 DUP N2

42.731 mg

Rate: 10.0 °C/min

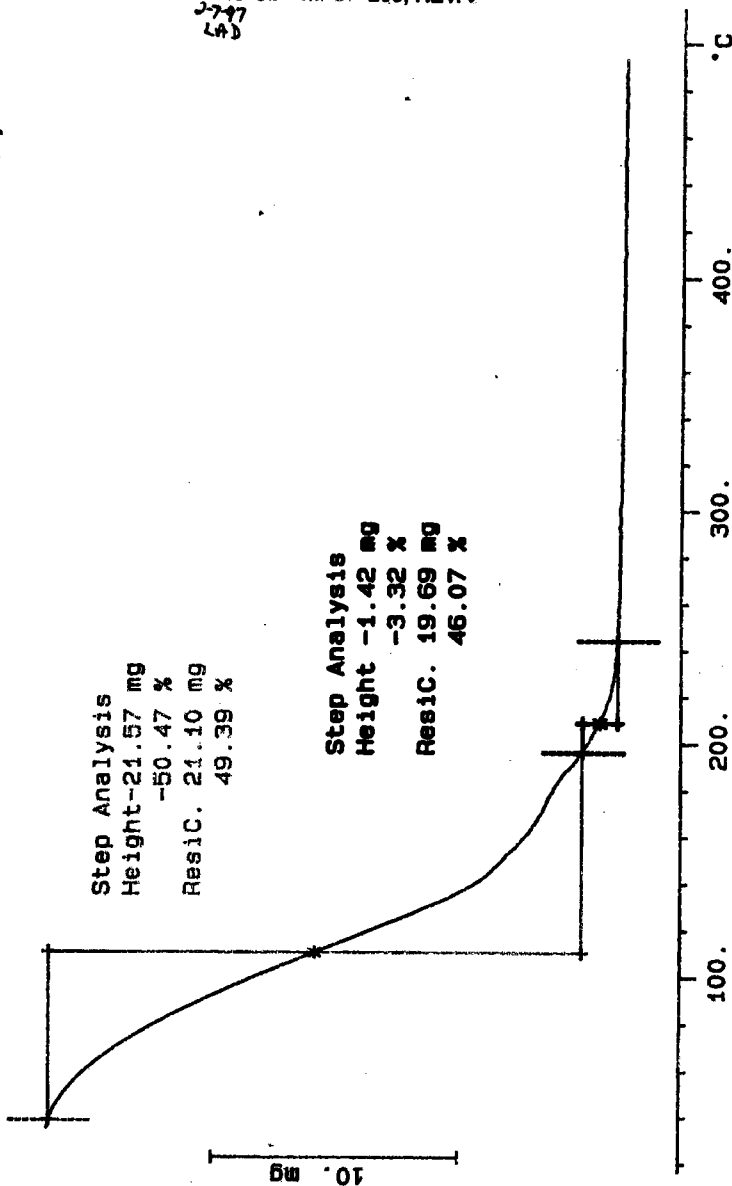
File: 00053.001

TG METTLER

26-Oct-96

Ident: 0.0

222-S Laboratory



HMF
J-747
(A)

WHC-SD-WM-DP-203, REV. C

S96T005357 N2

21.556 mg

Rate: 10.0 °C/min

File: 00055.001

Ident: 0.0

TG METTLER

222-S Laboratory

26-Oct-96

Step Analysis

Height-10.08 mg

-46.55 %

Res1C. 11.57 mg

53.45 %

Dpeak 91.0 °C

Step Analysis

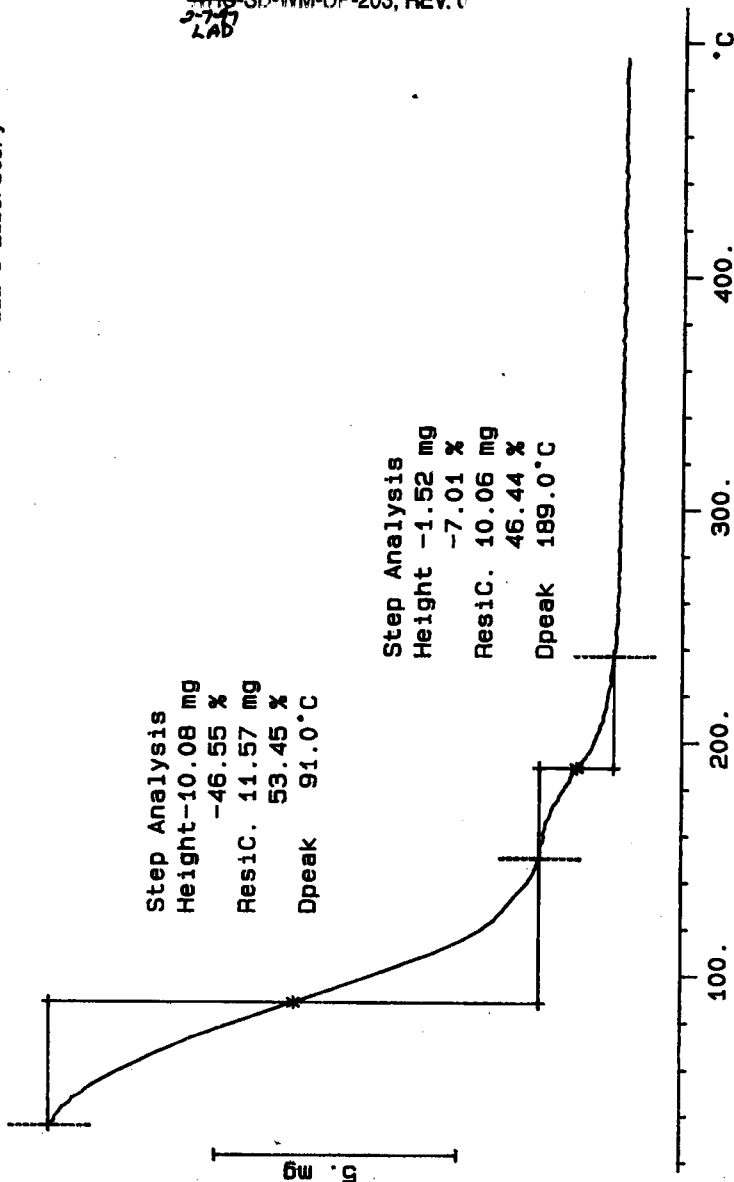
Height -1.52 mg

-7.01 %

Res1C. 10.06 mg

46.44 %

Dpeak 189.0 °C



HP
SD-WM-DP-203, REV. C
LAD

S96T005357 DUP N2

21.503 mg

Rate: 10.0 °C/min

File: 00057.001

Ident: 0.0

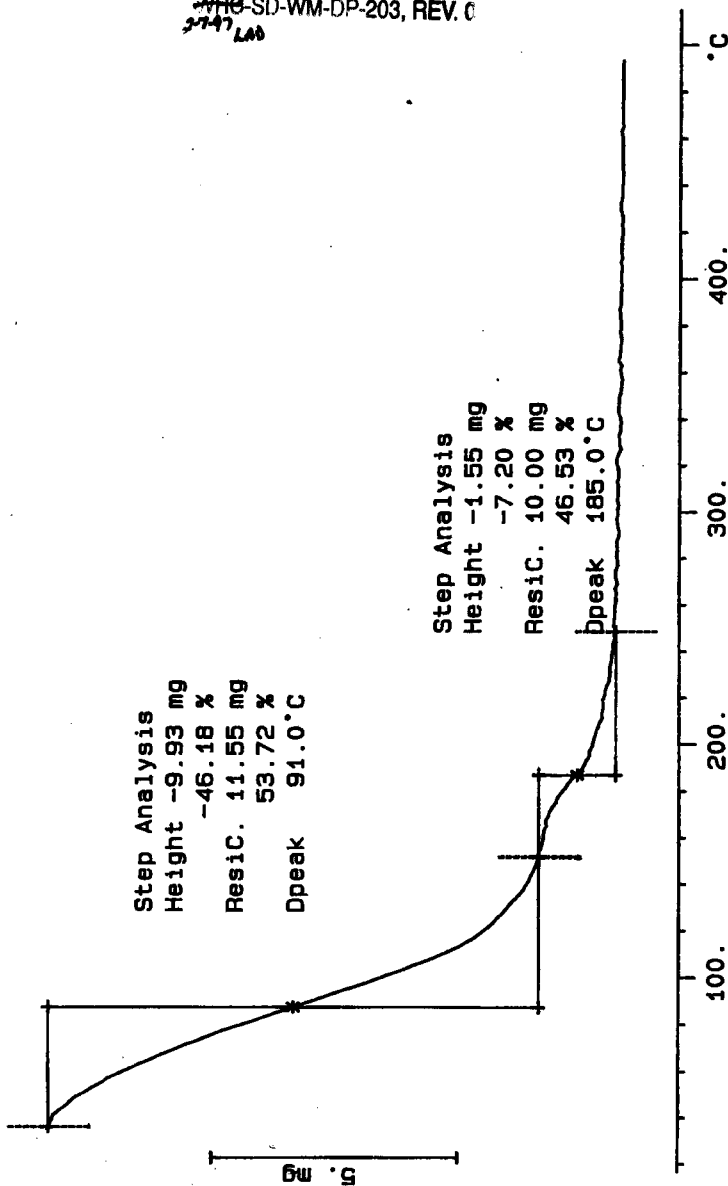
TG METTLER

26-Oct-96

222-S Laboratory

Step Analysis
Height -9.93 mg
-46.18 %
Resid. 11.55 mg
53.72 %
Dpeak 91.0 °C

Step Analysis
Height -1.55 mg
-7.20 %
Resid. 10.00 mg
46.53 %
Dpeak 185.0 °C



HWP
3747
LAD
SD-WM-DP-203, REV. C

LABCORE Completed Worklist Report for Worklist# 14212

Analyst: rga

Instrument: TGA03

Book# 82N8A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	TGA-01	SOLID	59.2	59.20	98.311 % Recovery	
2 SAMPLE	S96T005148	0	TGA-01	SOLID	N/A	24.11		%
3 DUP	S96T005148	0	TGA-01	SOLID	24.11	24.74	2.579 RPD	
4 SAMPLE	S96T005157	0	TGA-01	SOLID	N/A	17.67		%
5 DUP	S96T005157	0	TGA-01	SOLID	17.67	12.04	37.900 RPD	

Final page for worklist# 14212

See attached for signatures 10-31-96
Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Blandina Valenzuela 10-31-96
Reviewer Signature _____ Date _____

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 345 TO 349.

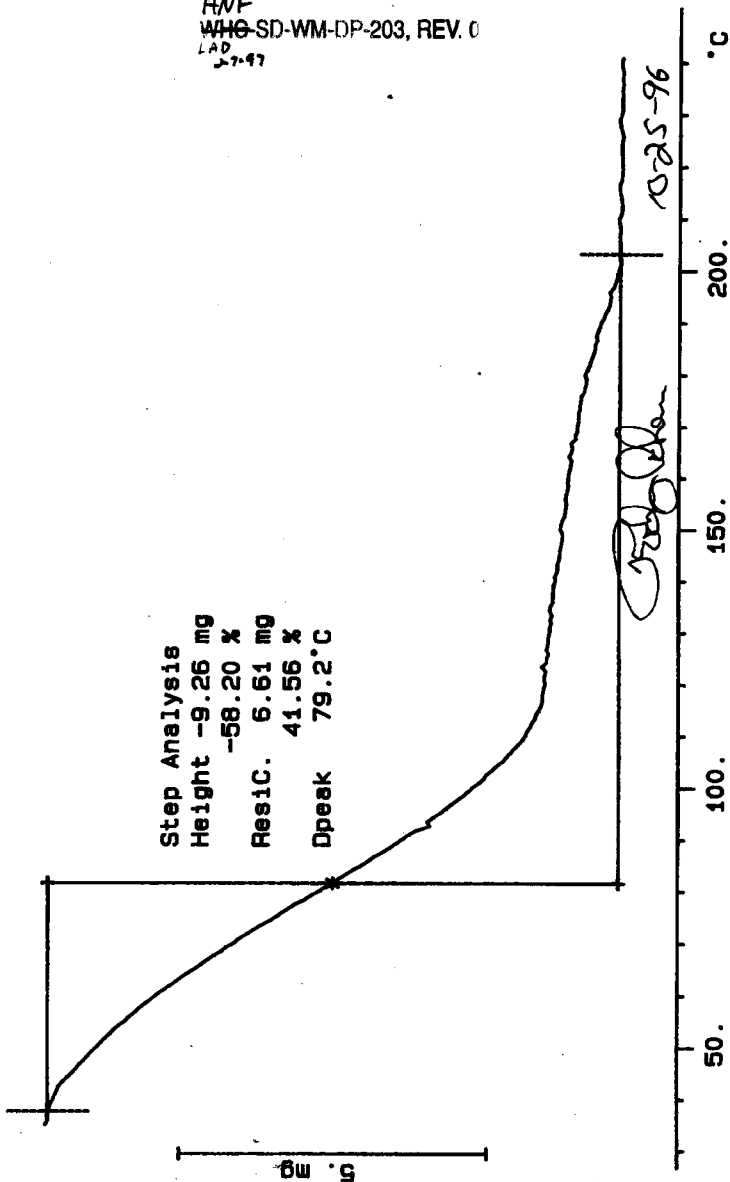
82N8-A N2
15.914 mg

Rate: 10.0 °C/min

File: 00039.001 T6 METTLER 25-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height -9.26 mg
-58.20 %
Res1C. 6.61 mg
41.56 %
Dpeak 79.2 °C

HNF
WHO SD-WM-DP-203, REV. 0
LAD
2-7-97



This document was too large to scan as a whole document,
therefore it required breaking into smaller sections.

Document number: SD-WM-OP-203

Section 2 of 3

Title: Tank 241-B4-111, Cores 168 and 171
Analytical Results for the Final
Report

Date: 5/5/97 Revision: A000

Originator: Nuzum J. L.

Co: RFSH

Recipient: _____

Co: _____

References: EDT-620397

S96T005148 N2

16.068 mg

Rate: 10.0 °C/min

File: 00041.001

TG METTLER

25-Oct-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height -3.87 mg
-24.11 %
Resic. 12.19 mg
75.89 %
Dpeak 55.0 °C

Step Analysis
Height -0.29 mg
-1.82 %
Resic. 11.90 mg
74.07 %

Step Analysis
Height -0.32 mg
-1.99 %
Resic. 11.58 mg
72.08 %

2. mg

100.

200.

300.

400.

°C

HVC
WMC SD-WM-DP-203, REV. 0
2/7/97
LAP

S96T005148 DUP N2

13.853 mg

Rate: 10.0 °C/min

File: 00043.001

Ident: 0.0

TG METTLER

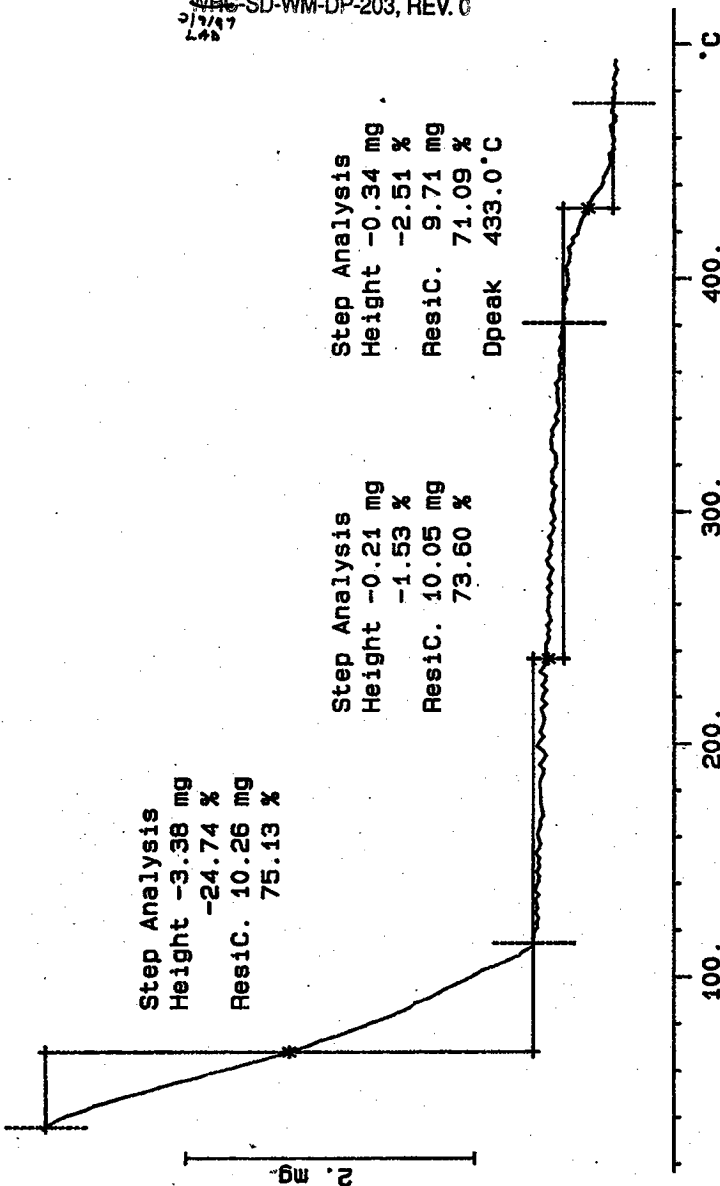
25-Oct-86

222-S Laboratory

Step Analysis
Height -3.38 mg
-24.74 %
ResidC. 10.26 mg
75.13 %

Step Analysis
Height -0.21 mg
-1.53 %
ResidC. 10.05 mg
73.60 %

Step Analysis
Height -0.34 mg
-2.51 %
ResidC. 9.71 mg
71.09 %
Dpeak 433.0 °C



SD-WM-DP-203, REV. C

S96T005157 SAM N2

17.952 mg

Rate: 10.0 °C/min

File: 00045.001 TG

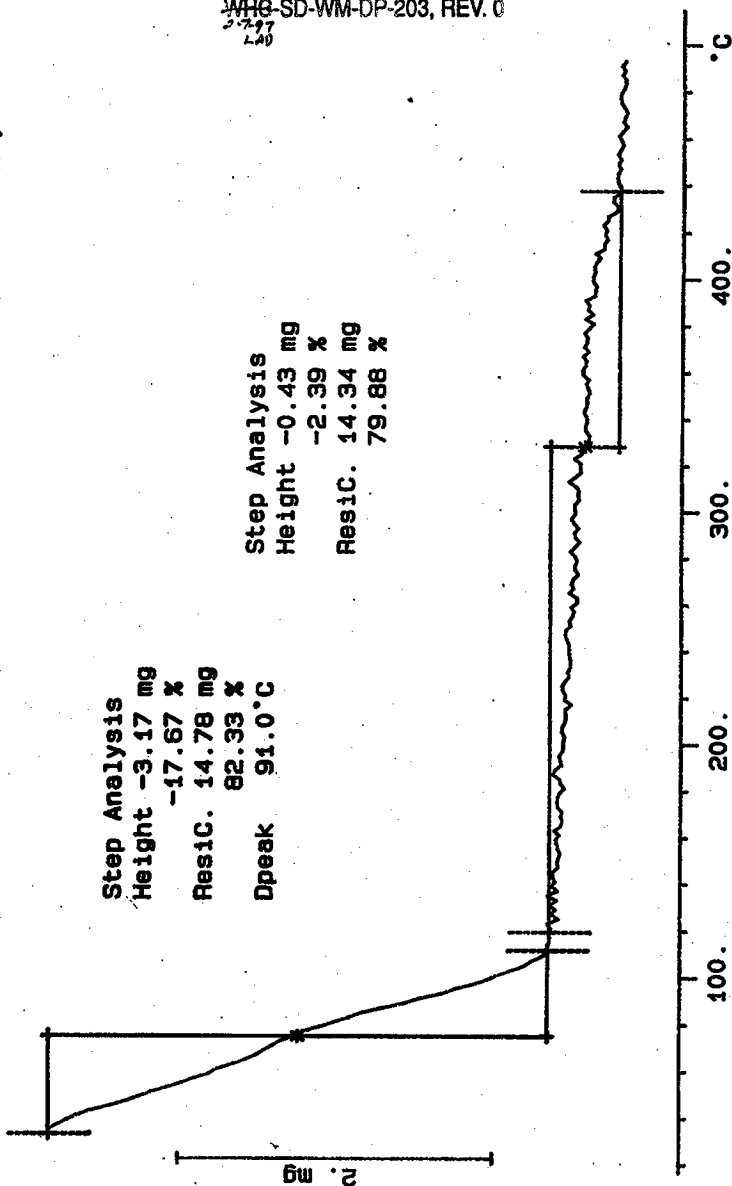
METTLER

25-Oct-96

Ident: 0.0 222-S Laboratory

Step Analysis
Height -3.17 mg
-17.67 %
Resic. 14.78 mg
82.33 %
Dpeak 91.0 °C

Step Analysis
Height -0.43 mg
-2.39 %
Resic. 14.34 mg
79.88 %



HVF
SD-WM-DP-203, REV. 0
5-2-97
LAD

S96T005157 DUP N2

21.267 mg

Rate: 10.0 °C/min

File: 00049.001

Ident: 0.0

TG METTLER

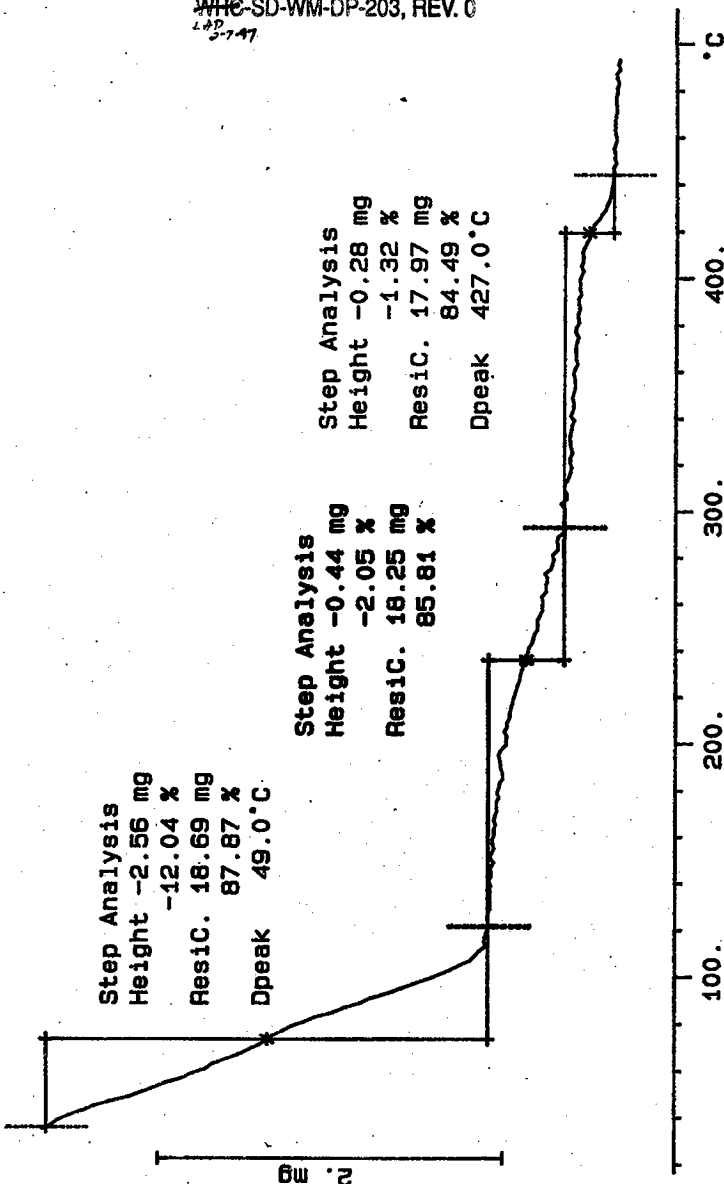
26-Oct-96

222-S Laboratory

Step Analysis
Height -2.56 mg
-12.04 %
ResiC. 18.69 mg
87.87 %
Dpeak 49.0 °C

Step Analysis
Height -0.44 mg
-2.05 %
ResiC. 18.25 mg
85.81 %

Step Analysis
Height -0.28 mg
-1.32 %
ResiC. 17.97 mg
84.49 %
Dpeak 427.0 °C



11AF
210C-SD-WM-DP-203, REV. 0
LAP
5-7-97

LABCORE Completed Worklist Report for Worklist# 14213

Analyst: rga Instrument: TGA01 Book# 82N8A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN-UNDER N2. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	TGA-01	SOLID	5.92±0.1	58.76%	99.257 % Recovery	
2 SAMPLE	S96T005158	0	TGA-01	SOLID	N/A	28.04	%	
3 DUF	S96T005158	0	TGA-01	SOLID	28.04	43.57	43.374 RPD	
4 SAMPLE	S96T005166	0	TGA-01	SOLID	N/A	28.33	%	
5 DUF	S96T005166	0	TGA-01	SOLID	28.33	31.73	11.322 RPD	

Comments Section:

Comments for sample# S96T005158 and test TGA-01
S96T005158 SHOULD BE RERUN DUE TO HIGH RPDs.

Final page for worklist# 14213

See attached for signatures 10-31-96
Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Blandina Valenzuela 10-31-96
Reviewer Signature _____ Date _____

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 357 TO 358.

82N8-A N2
13.018 mg

Rate: 10.0 °C/min

File: 00047.001

Ident: 0.0

TG METTLER 26-Oct-96

222-S Laboratory

Step Analysis

Height -7.65 mg

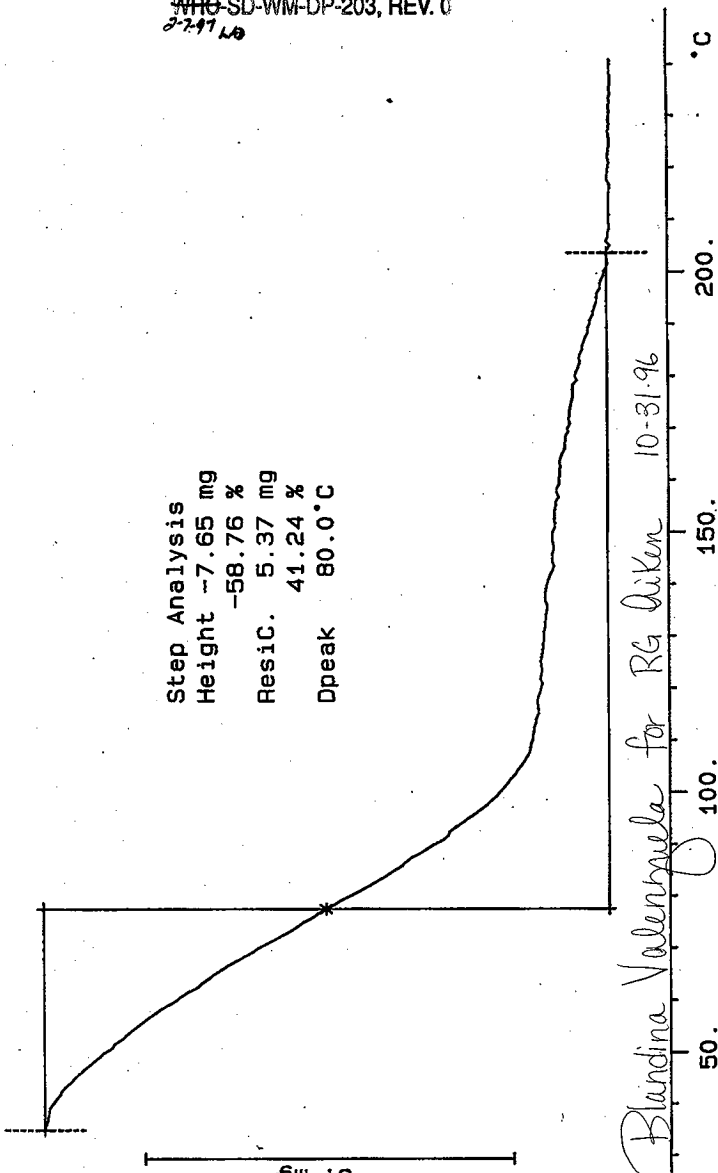
-58.76 %

Resid. 5.37 mg

41.24 %

Dpeak 80.0 °C

5 mg



WVE
WMO SD-WM-DP-203, REV. 0
2-2-97 LWB

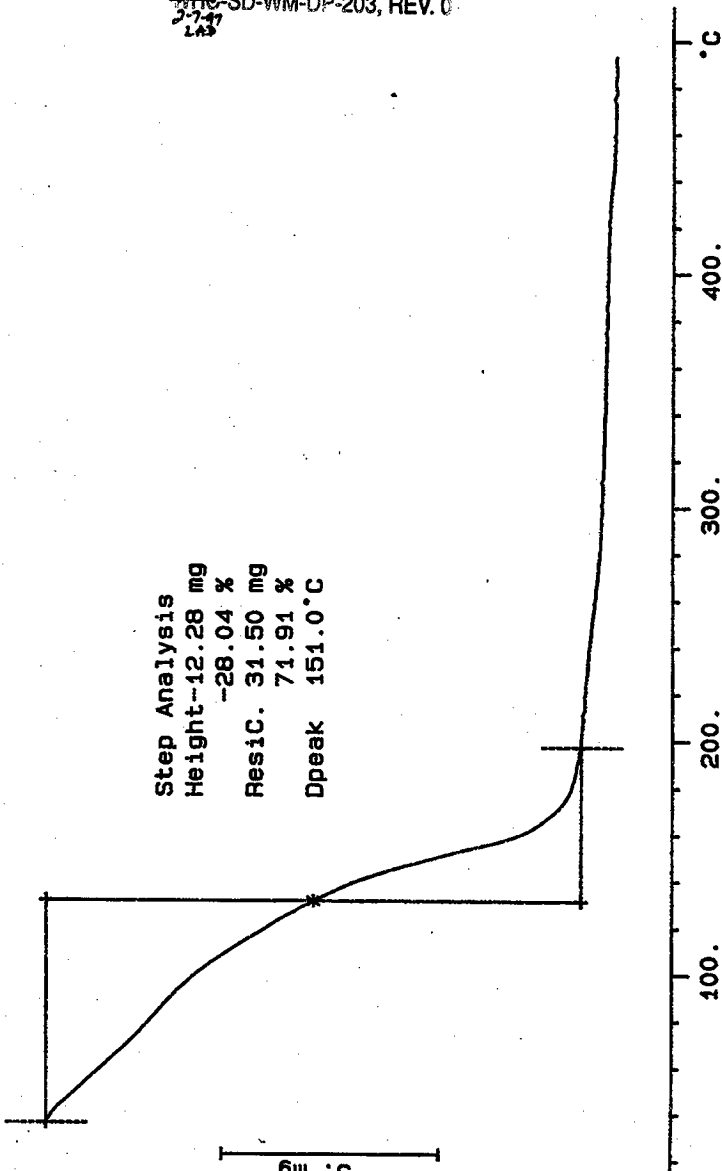
S96T005158 N2
43.802 mg

Rate: 10.0 °C/min

File: 00059.001 TG METTLER 26-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-12.28 mg
-28.04 %
Resid. 31.50 mg
71.91 %
Dpeak 151.0 °C

5 mg



HVE
HFC SD-WM-DP-203, REV. 0
2-7-97
LAB

S96T005158 DUP N2

33.485 mg

Rate: 10.0 °C/min

File: 00061.001

Ident: 0.0

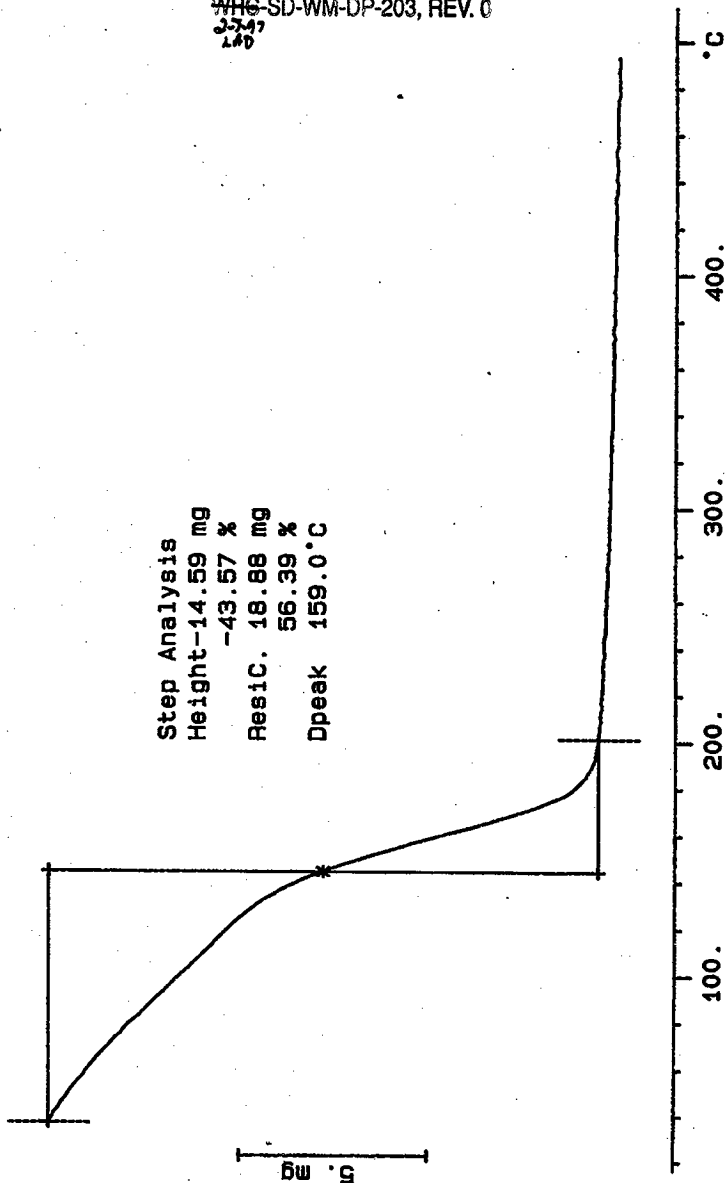
TG METTLER

26-Oct-96

222-S Laboratory

Step Analysis
Height-14.59 mg
-43.57 %
Resid. 18.88 mg
56.39 %
Dpeak 159.0 °C

HVF
WHC SD-WM-DP-203, REV. 0
JJA
LAD



S96T005166 N2

17.178 mg

Rate: 10.0 °C/min

File: 00063.001

Ident: 0.0

TG METTLER

26-Oct-96

222-S Laboratory

Step Analysis
Height -4.87 mg
-28.33 %
ResidC. 12.32 mg
71.69 %
Dpeak 61.0 °C

Step Analysis
Height -0.41 mg
-2.37 %
ResidC. 11.91 mg
69.32 %

2. mg

100.

200.

300.

400.

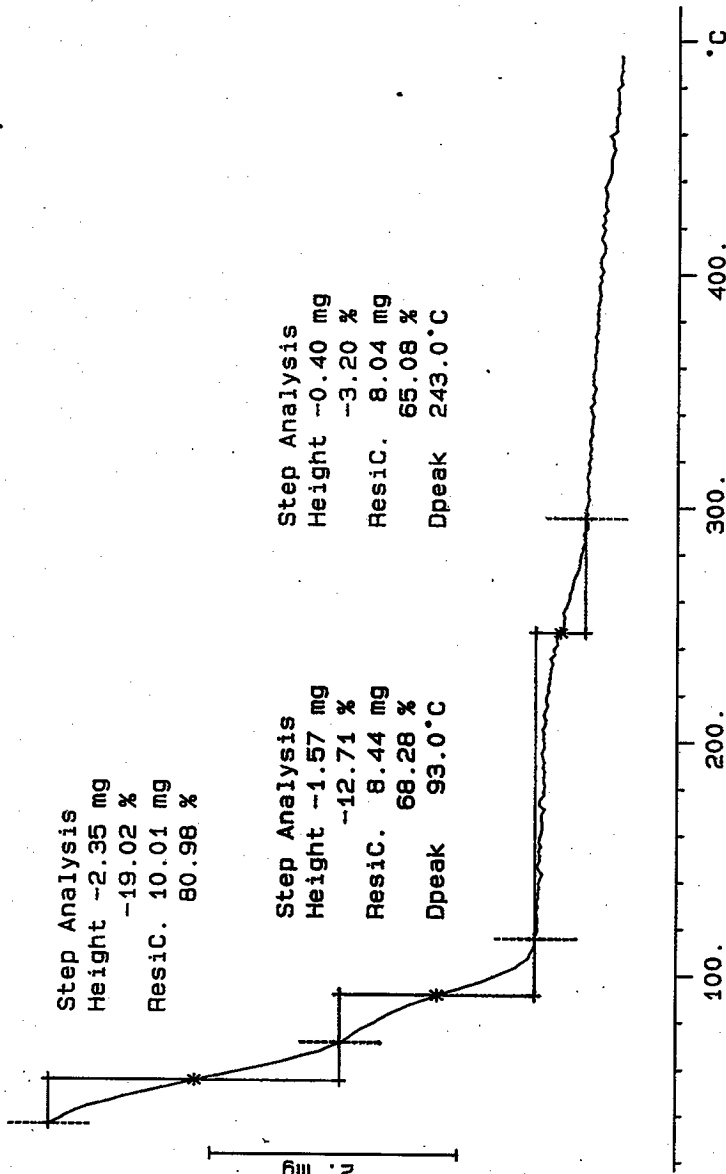
°C

HAUF
27-17
LAB

WHC SD-WM-DP-203, REV. 0

S96T005166 DUP N2
12.360 mg
File: 00065.001 TG METTLER 26-Oct-96
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min



LABCORE Data Entry Template for Worklist# 14214

Analyst: EAL Instrument: TGA0 3 Book # 82N3A

Method: LA-514-114 Rev/Mod D-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	59.2	58.68*	N/A	%
96001257	BY-111	2 SAMPLE	S96T005167	0	TGA-03	SOLID	N/A	33.76		%
96001257	BY-111	3 DUP	S96T005167	0	TGA-03	SOLID	33.76	38.56	N/A	%

Final page for worklist # 14214

See attached for signatures 10-22-96
Analyst Signature Date

10-24-96
10-25-96
Analyst Signature Date

Verified/Validated by

Blandina
Valenzuela 10-30-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 14214

Analyst: EDL

Instrument: TGA0

Book # 82N84

Method: LA-560-112 Rev/Mod

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
96001257	BY-111	2 SAMPLE	S96T005167	0	TGA-01	SOLID	N/A			%
96001257	BY-111	3 DUP	S96T005167	0	TGA-01	SOLID			N/A	%

Final page for worklist # 14214

A. Lambel
Analyst Signature

10-22-96
Date

Analyst Signature

Date

TGA-03 instrument was
used.

10-30-96

Blandina

Valenzuela

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

Curve 1: TGA

File Info: TER102101 Mon Oct 21 06:06:07 1996

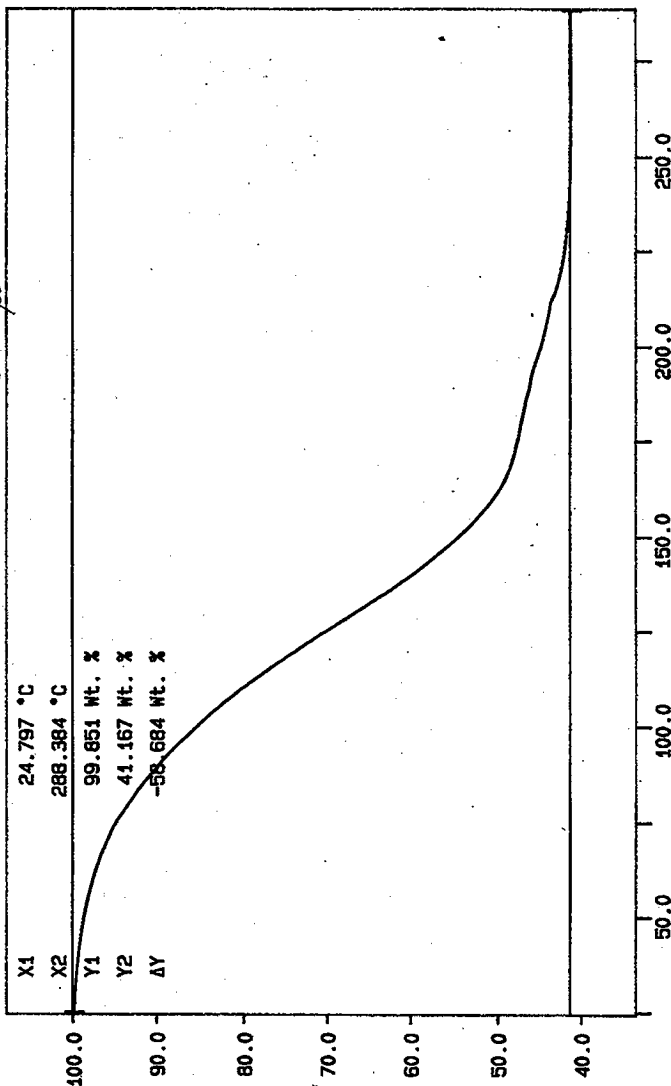
Sample Weight: 18.778 mg

TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 358 TO 362.

A. Lumbel 10-22-96

Weight (Wt. %)



N2 10C/MIN

TEMP 350.0 °C

TIME:

0.0 min RATE:

10.0 C/min

Temperature (°C)

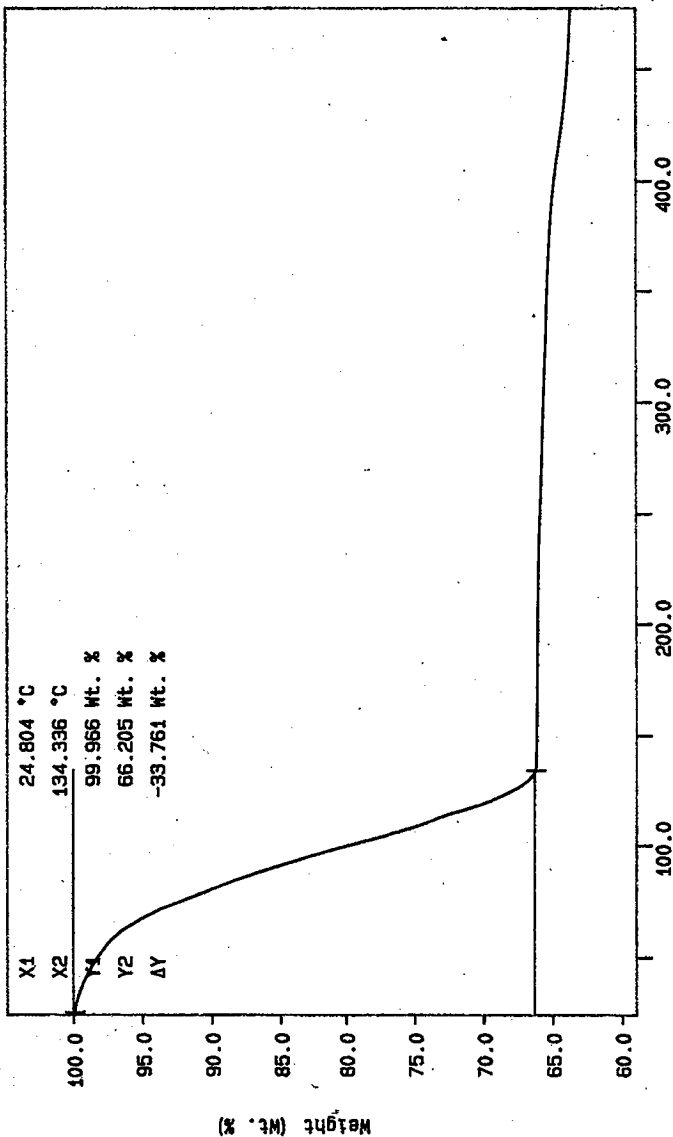
JD SPELLMAN

PERKIN-ELMER

7 Series Thermal Analysis System
Tue Oct 22 02:23:33 1996

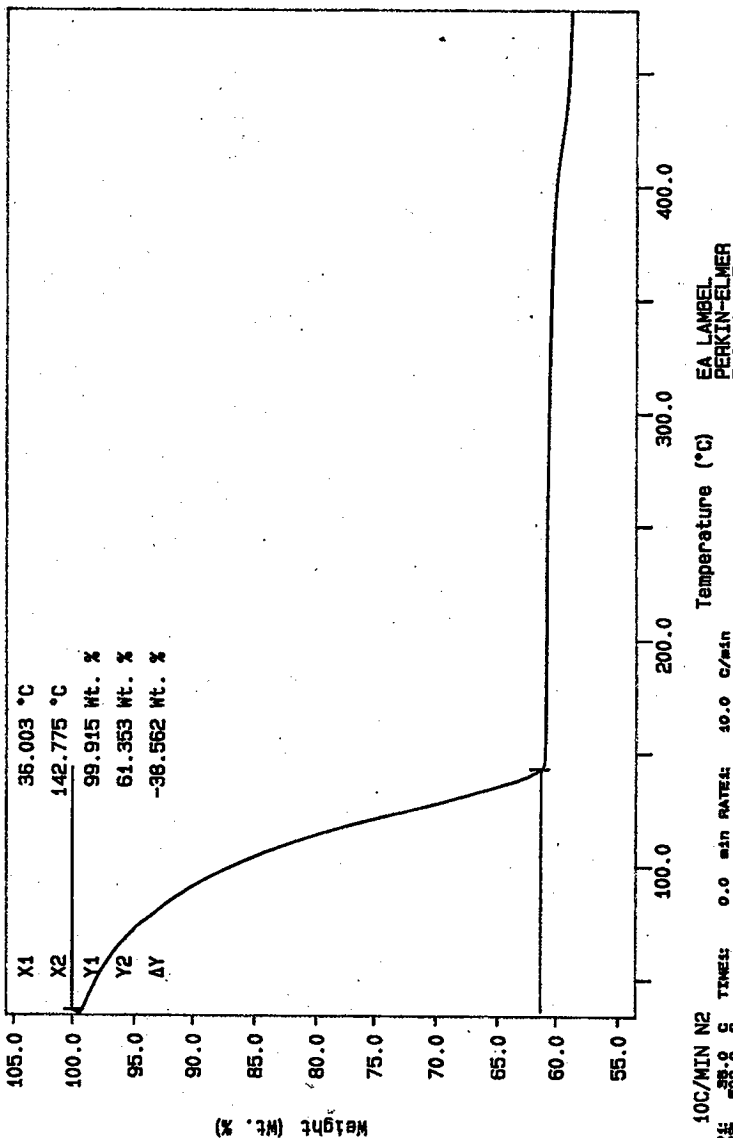
HNF
WHIS-SD-WM-OP-203, REV. 0
3-7-97
LAB

Curve 1: TGA
 File info: SAM102209 Tue Oct 22 01:28:40 1996
 Sample Weight: 13.989 mg
 S96T005167 SAM



10C/MIN N2
 TEMPERATURE 200.0 °C
 TIME: 0.0 min RATE: 10.0 C/min
 EA LAMBEL
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Oct 22 01:37:49 1996

Curve 1: TGA
File Info: SAM102210 Tue Oct 22 02:34:04 1996
Sample Weight: 20.314 mg
S96T005167 DUP



EA LABEL
PERKIN-ELMER
7 Series Thermal Analysis System
Tue Oct 22 03:14:39 1996

LABCORE Completed Worklist Report for Worklist# 14231

Analyst: pjm

Instrument: TGA01

Book# 82N8A

Method: LA-560-II2 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0	TGA-01	SOLID	5.92e01	58.894	99.475 % Recovery	
2 SAMPLE	S96T005301 0	TGA-01	SOLID	N/A	19.6	%	
3 DUP	S96T005301 0	TGA-01	SOLID	19.6	12.97	40.712 RPD	
4 SAMPLE	S96T005304 0	TGA-01	SOLID	N/A	26.39	%	
5 DUP	S96T005304 0	TGA-01	SOLID	26.39	27.8	5.204 RPD	

Final page for worklist# 14231

See attached for signatures 10-31-96

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

Blandina Valenzuela 10-31-96

၆၂၂

S96T005301 N2

23.530 mg

Rate: 10.0 °C/min

File: 00067.001 TG METTLER 26-Oct-96

Ident: 0.0 222-S Laboratory

Redu

Step Analysis

Height -1.38 mg

-5.86 %

Resic. 22.15 mg

94.14 %

Step Analysis

Height -3.23 mg

-13.74 %

Resic. 18.92 mg

80.41 %

Dpeak 123.0 °C

Step Analysis

Height -0.46 mg

-1.95 %

Resic. 18.46 mg

78.46 %

2. mg

100.

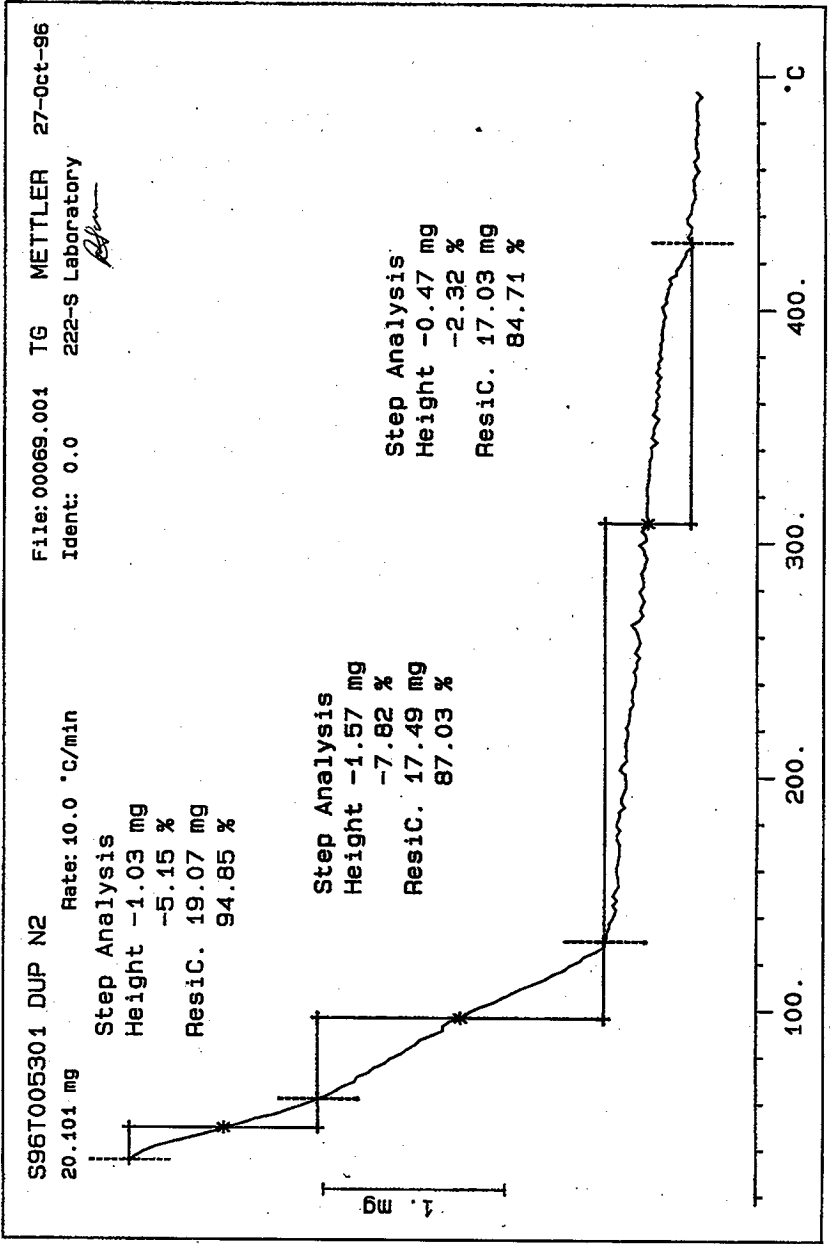
200.

300.

400.

°C

HUF
SD-WM-DP-203, REV. 0



S96T005304 N2

28.192 mg

Rate: 10.0 °C/min

File: 00071.001 TG METTLER 27-Oct-96

Ident: 0.0 222-S Laboratory

John

Step Analysis

Height -2.36 mg

-8.36 %

ResidC. 25.83 mg

91.64 %

Step Analysis

Height -5.08 mg

-18.03 %

ResidC. 20.75 mg

73.60 %

Dpeak 117.0°C

Step Analysis

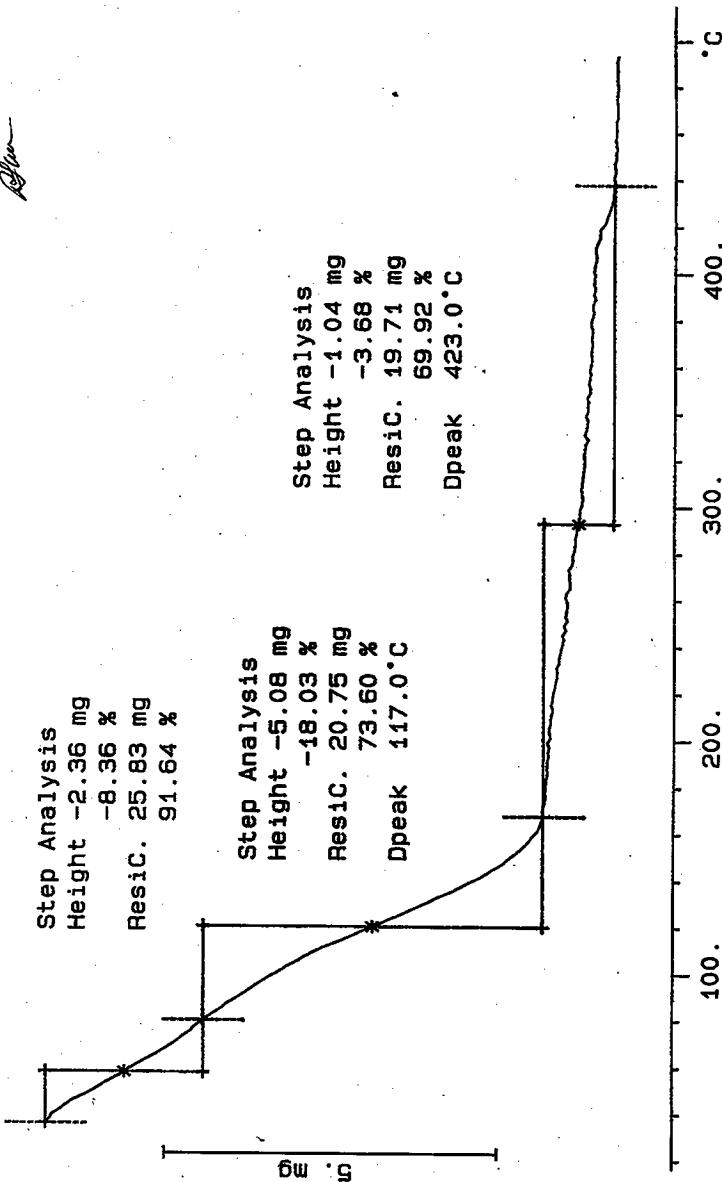
Height -1.04 mg

-3.68 %

ResidC. 19.71 mg

69.92 %

Dpeak 423.0°C

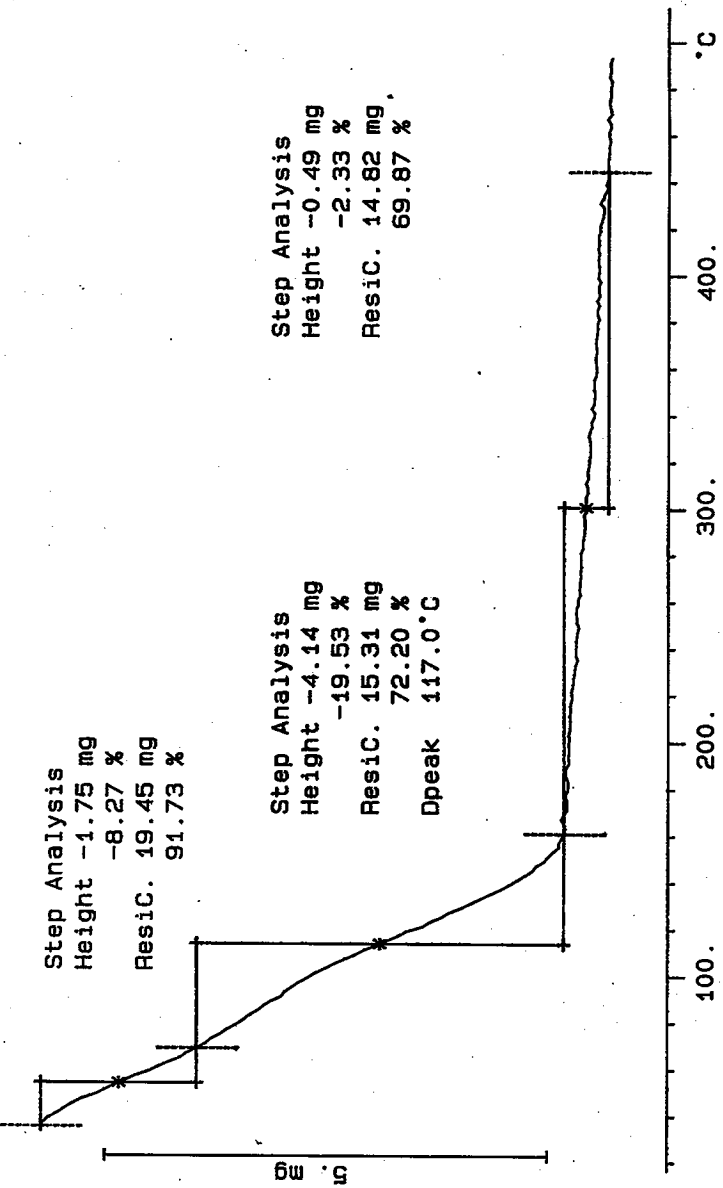


S96T005304 DUP N2
21.207 mg
File: 00073.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory *Rfu*
Rate: 10.0 °C/min

Step Analysis
Height -1.75 mg
-8.27 %
ResiC. 19.45 mg
91.73 %

Step Analysis
Height -4.14 mg
-19.53 %
ResiC. 15.31 mg
72.20 %
Dpeak 117.0 °C

Step Analysis
Height -0.49 mg
-2.33 %
ResiC. 14.82 mg
69.87 %



LABCORE Data Entry Template for Worklist# 14232

Analyst: PJM Instrument: TGA0 3 Book # 82N8A

Method: LA-514-114 Rev/Mod D-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.2</u>	<u>58.76</u>	<u>N/A</u>	%
96001257	BY-111	2 SAMPLE	S96T005310	0	TGA-03	SOLID	<u>N/A</u>	<u>43.01</u>		%
96001257	BY-111	3 DUP	S96T005310	0	TGA-03	SOLID	<u>43.01</u>	<u>42.26</u>	<u>N/A</u>	%
96001336	BY-111	4 SAMPLE	S96T005321	0	TGA-03	SOLID	<u>N/A</u>	<u>.56</u>		%
96001336	BY-111	5 DUP	S96T005321	0	TGA-03	SOLID	<u>.56</u>	<u>.58</u>	<u>N/A</u>	%

Final page for worklist # 14232

See attached for signatures
Analyst Signature PJM Date 10-29-96

T.R. Olson 10/30/96
Analyst Signature Date

Verified/Validated by

Blandina

Valenzuela 10-31-96

Data Entry Comments:

S96T005321 results are similar to the DSC results in
that the sample contains very little water.

LABCORE Data Entry Template for Worklist# 14232

Analyst: RLM Instrument: TGA0 Book # 8218A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
96001257	BY-111	2 SAMPLE	S96T005310	0	TGA-01	SOLID	N/A			%
96001257	BY-111	3 DUP	S96T005310	0	TGA-01	SOLID			N/A	%
96001336	BY-111	4 SAMPLE	S96T005321	0	TGA-01	SOLID	N/A			%
96001336	BY-111	5 DUP	S96T005321	0	TGA-01	SOLID			N/A	%

Final page for worklist # 14232

RLM 10/27/96
Analyst Signature Date

Analyst Signature Date

TGA-03 instrument
was used.

10-29-96

Blandina
Valenzuela

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

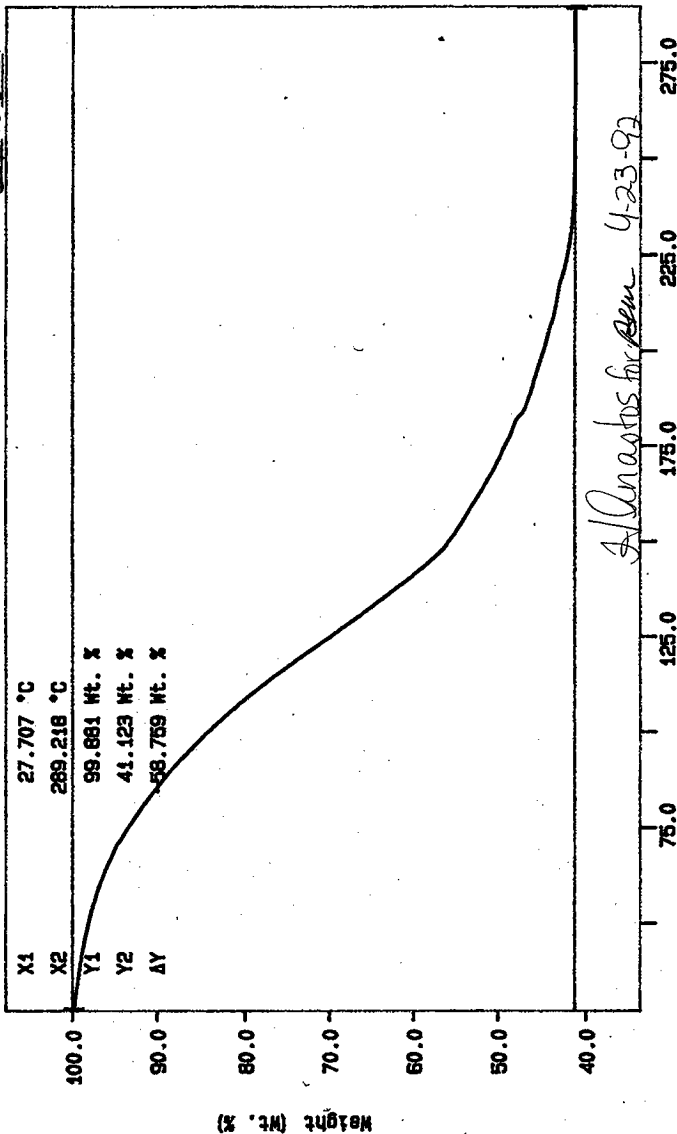
Curve 1: TGA

File Info: TER102601 Sat Oct 26 19: 53 1996

Sample Weight: 23.330 mg

TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 369 TO 373.



N2 10C/MIN

TIME: 355.8 s

0.0 MIN RATE: 40.0 C/MIN

Temperature (°C)

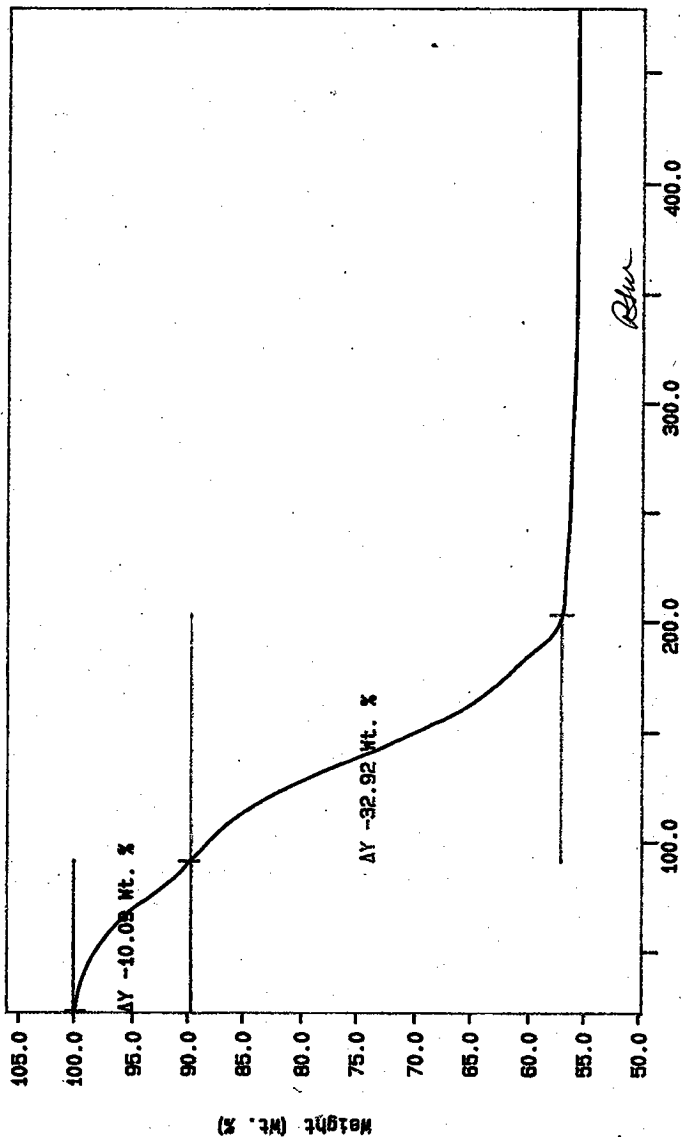
PJ MCCOWN

PERKIN-ELMER

7 Series Thermal Analysis System

Sat Oct 26 19: 53: 10 1996

Curve 1: TGA
 File Info: SAM102601 Sat Oct 26 21:26:32 1996
 Sample Weight: 26.821 mg
 S96T005310



PJ MCCOHN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sat Oct 26 21:33:11 1996

10C/MIN N2
 50.0 g
 500.0 g

0.0 min RATELS 10.0 C/min

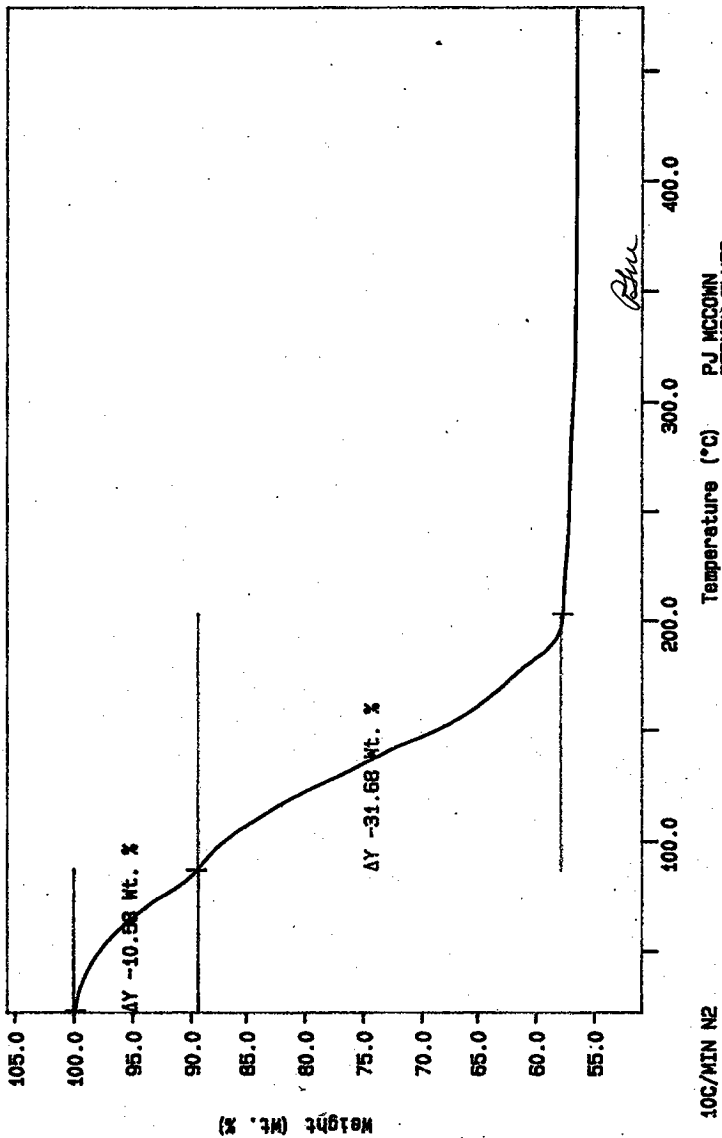
Curve 1: TGA

File Info: SAM102602 Sat Oct 26 22:50:19 1996

Sample Weight: 24.102 mg

S96T005310 DUP

HNF
WHO-SD-WM-DP-203, REV. 0
2-7-97
LAD



PJ MCCOY
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Oct 26 23:17:05 1996

10C/MIN N2
TEMP: 35.0 °C
TIME: 00:00
0.0 MIN RATE: 10.0 C/MIN

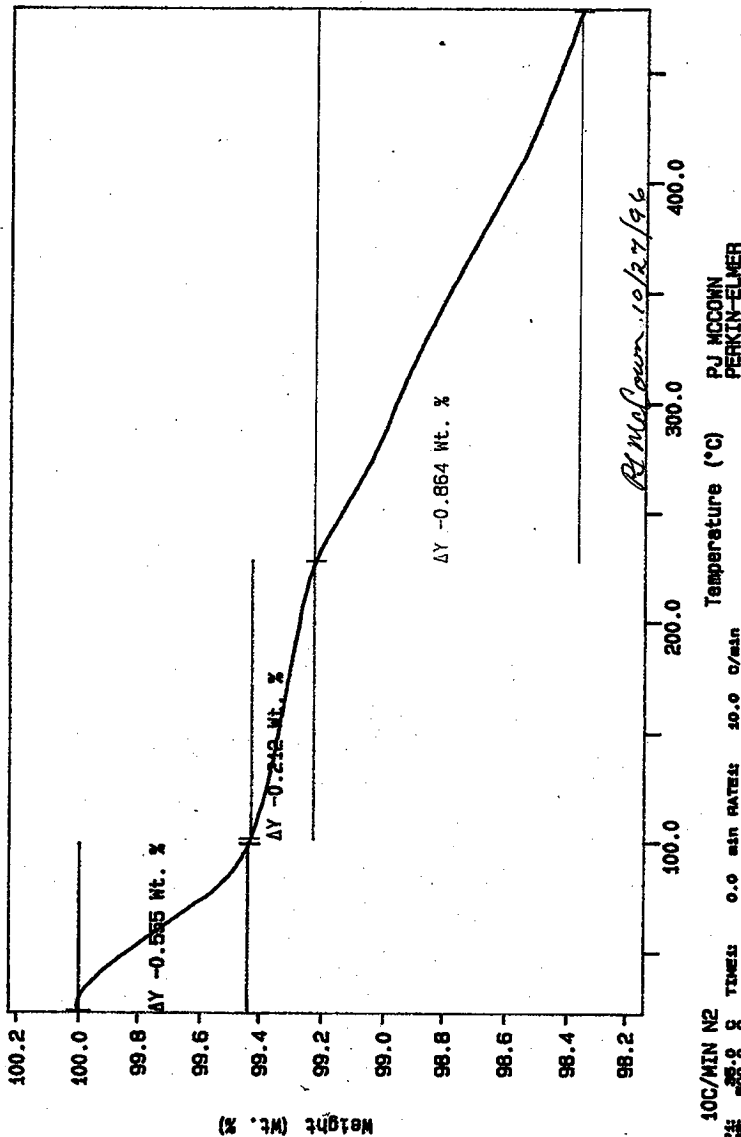
Curve 1: TGA

File Info: SAM102701 Sun Oct 27 00:39:11 1996

Sample Weight: 20.249 mg

9967005321

HVF
WHG-SD-WM-DP-203, REV. 0
27-97
Lab



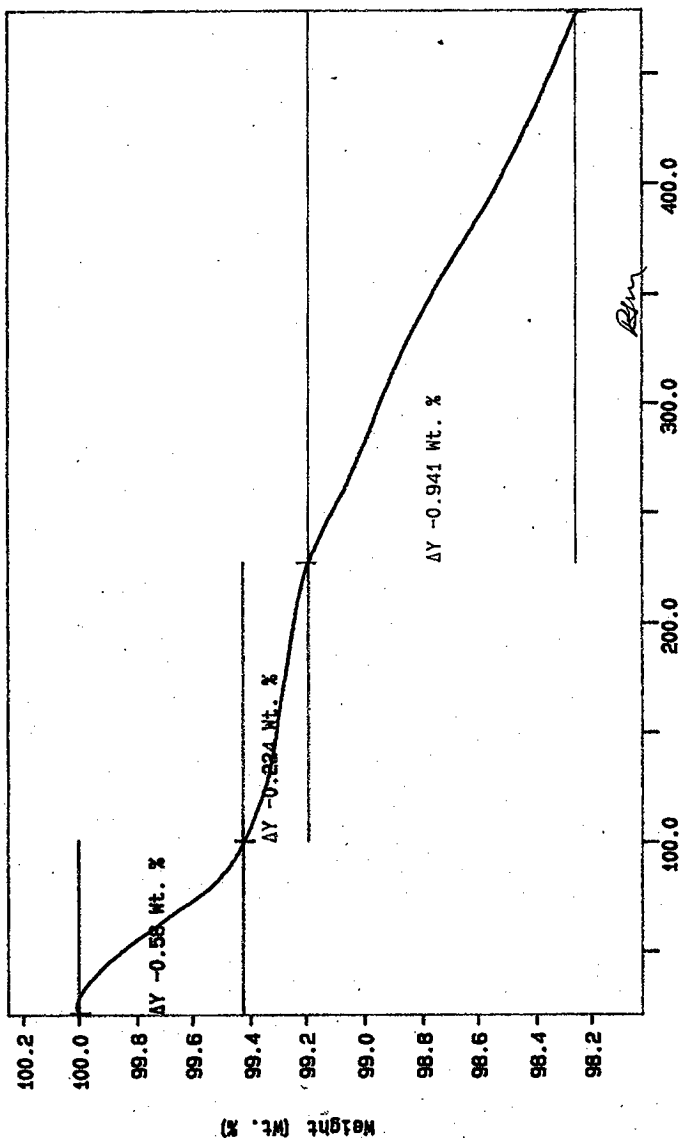
10C/MIN N2

TEMP: 85.0 °C TIME: 0.0 min RATE: 10.0 °/min

PJ MCCOY
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Oct 27 01:07:57 1996

Curve 1: TGA
 File Info: SAM102702 Sun Oct 27 01:21:54 1996
 Sample Weight: 18.028 mg
 S96T005321 DUP

HUF
 WHG-SD-WM-DP-203, REV. 0
 2-7-97 LAD



10C/MIN N2
 TEMPS 350.0 & 500.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 PJ MCCOY
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Oct 27 01:24:01 1996

LABCORE Data Entry Template for Worklist# 14233

Analyst:

RGA

Instrument: TGA0

1

Book #

12N14B

Method: LA-560-112 Rev/Mod

C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.38</u>	<u>N/A</u>	%
96001336	BY-111	2 SAMPLE	S96T005335	0	TGA-01	SOLID	<u>N/A</u>	<u>23.68</u>		%
96001336	BY-111	3 DUP	S96T005335	0	TGA-01	SOLID	<u>23.68</u>	<u>23.84</u>	<u>N/A</u>	%
96001336	BY-111	4 SAMPLE	S96T005336	0	TGA-01	SOLID	<u>N/A</u>	<u>50.73</u>		%
96001336	BY-111	5 DUP	S96T005336	0	TGA-01	SOLID	<u>50.73</u>	<u>48.08</u>	<u>N/A</u>	%

Final page for worklist # 14233

Analyst Signature

Date

Analyst Signature

Date

Verified/Validated by

Blandina

Valenzuela 10-31-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 375 TO 379.

82NB-A N2

18.534 mg

Rate: 10.0 °C/min

File: 00075.001

TG

27-Oct-96

Ident: 0.0

222-S Laboratory

Step Analysis
Height-10.82 mg
-58.38 %
ResidC. 7.65 mg
41.27 %
Dpeak 83.3°C

5. mg

Bohdan 10-27-96

50.

100.

150.

200.

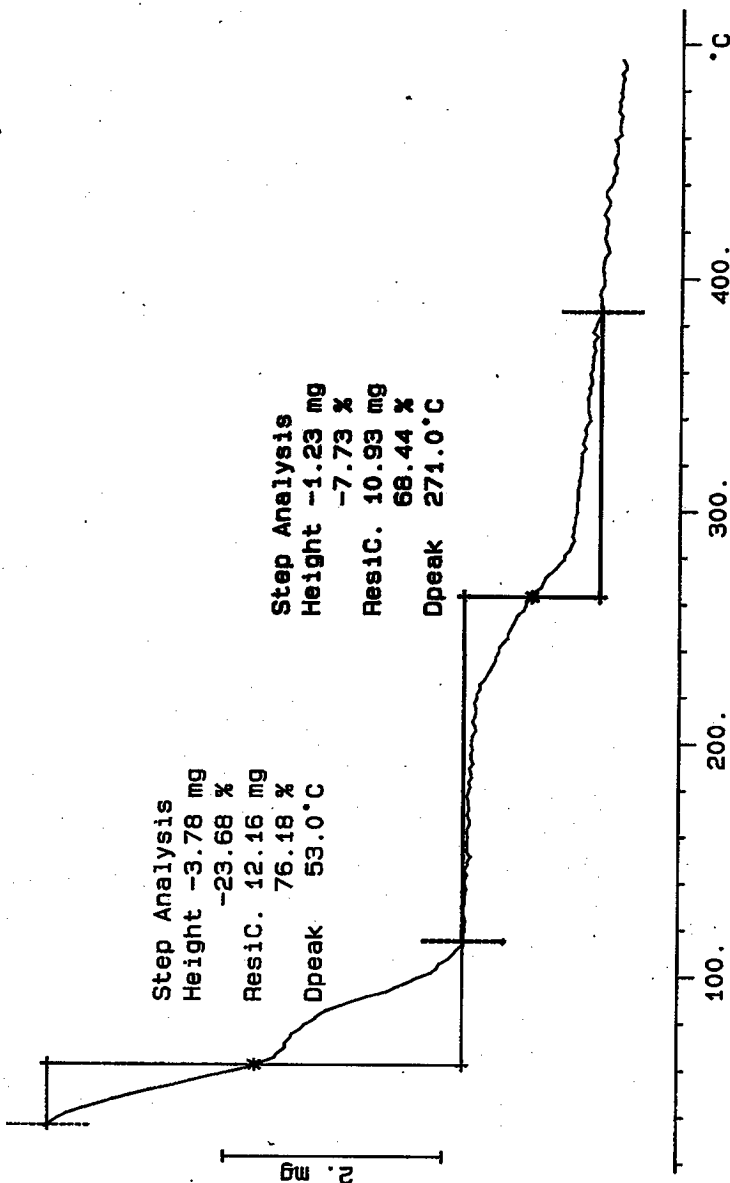
°C

S96T005335 N2

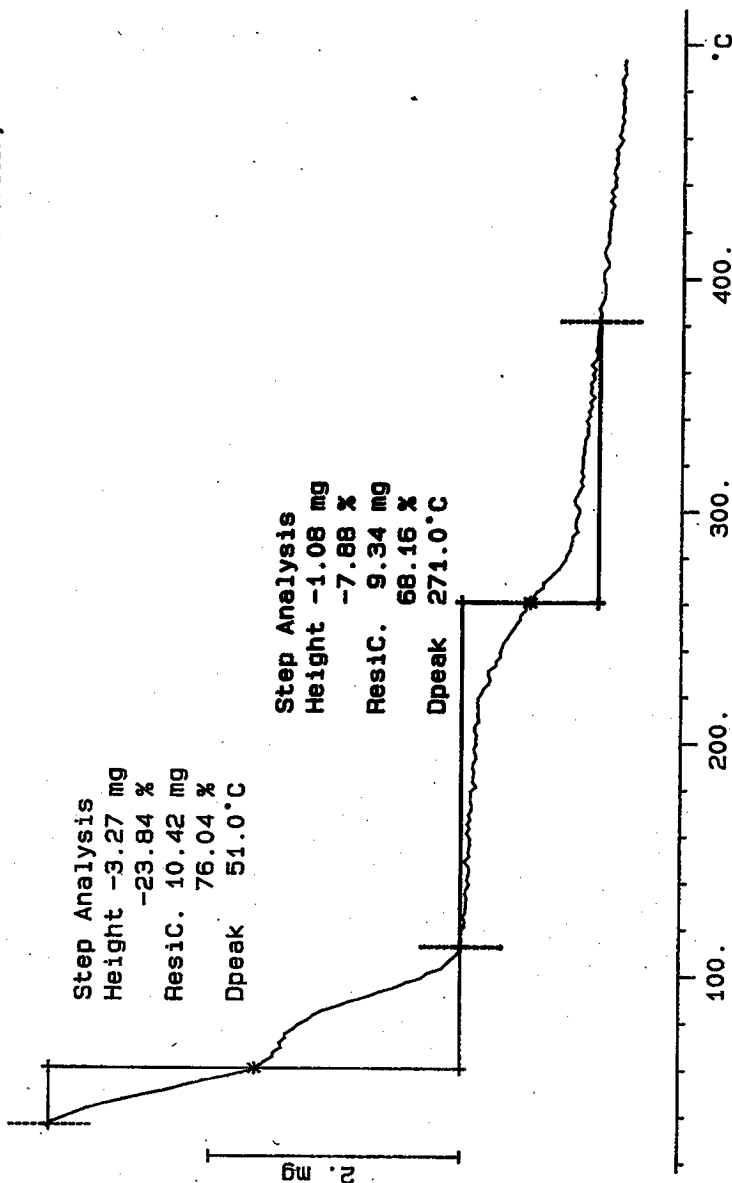
15.966 mg

Rate: 10.0 °C/min

File: 00077.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory



S96T005335 DUP N2
 13.708 mg
 Rate: 10.0 °C/min
 File: 00079.001 TG METTLER 27-Oct-96
 Ident: 0.0 222-S Laboratory



S96T005336 N2

20.820 mg

Rate: 10.0 °C/min

File: 00081.001

Ident: 0.0

TG

27-Oct-96

222-S Laboratory

Step Analysis

Height-10.56 mg

-50.73 %

Resic. 10.23 mg

49.14 %

Dpeak 89.0 °C

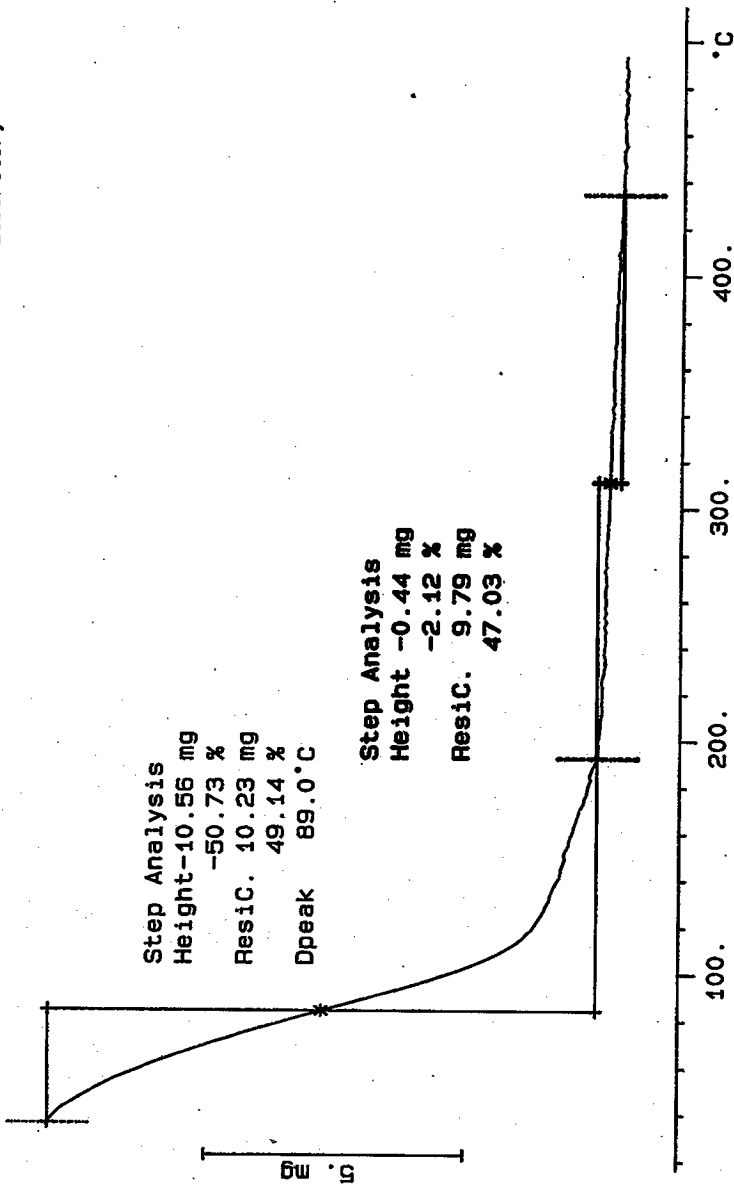
Step Analysis

Height -0.44 mg

-2.12 %

Resic. 9.79 mg

47.03 %

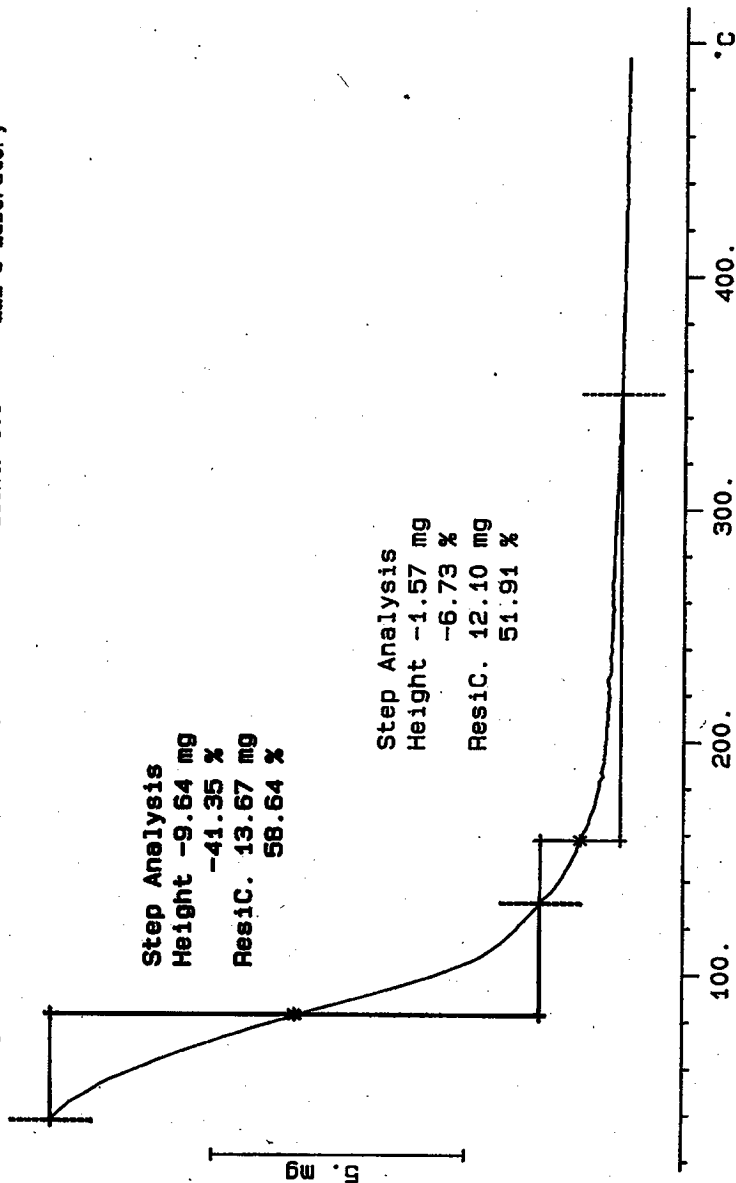


S96T005336 DUP N2
23.314 mg
Rate: 10.0 °C/min
File: 00083.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis

Height -9.64 mg
-41.35 %
Resid. 13.67 mg
58.64 %

Step Analysis
Height -1.57 mg
-6.73 %
Resid. 12.10 mg
51.91 %



LABCORE Data Entry Template for Worklist# 14234

Analyst:

RGA

Instrument: TGA0

1

Book #

82N8-A

Method: LA-560-112 Rev/Mod

C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCI

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.69</u>	<u>*</u>	<u>N/A</u> %
96001336	BY-111	2 SAMPLE	S96T005342	0	TGA-01	SOLID	<u>N/A</u>	<u>52.58</u>		%
96001336	BY-111	3 DUP	S96T005342	0	TGA-01	SOLID	<u>52.58</u>	<u>51.59</u>	<u>N/A</u>	%
96001336	BY-111	4 SAMPLE	S96T005349	0	TGA-01	SOLID	<u>N/A</u>	<u>51.45</u>		%
96001336	BY-111	5 DUP	S96T005349	0	TGA-01	SOLID	<u>51.45</u>	<u>46.43</u>	<u>N/A</u>	%

Final page for worklist # 14234

Analyst Signature

Date

10-27-96

Analyst Signature

Date

10-30-96

Verified/Validated by

Blandina

Valenzuela 11-1-96

Data Entry Comments:

S96T005342 results are the sum of several weight

loss steps

S96T005349 results are the sum of several weight loss steps

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 381 TO 385.

82N8-A N2

18.534 mg

Rate: 10.0 °C/min

File: 00075.001

TG

27-Oct-96

Ident: 0.0 222-S Laboratory

Step Analysis

Height-10.88 mg

-58.69 %

ResidC. 7.64 mg

41.25 %

Dpeak 83.3 °C

5. mg

Blandina Valenzuela for Raiken 11-1-96

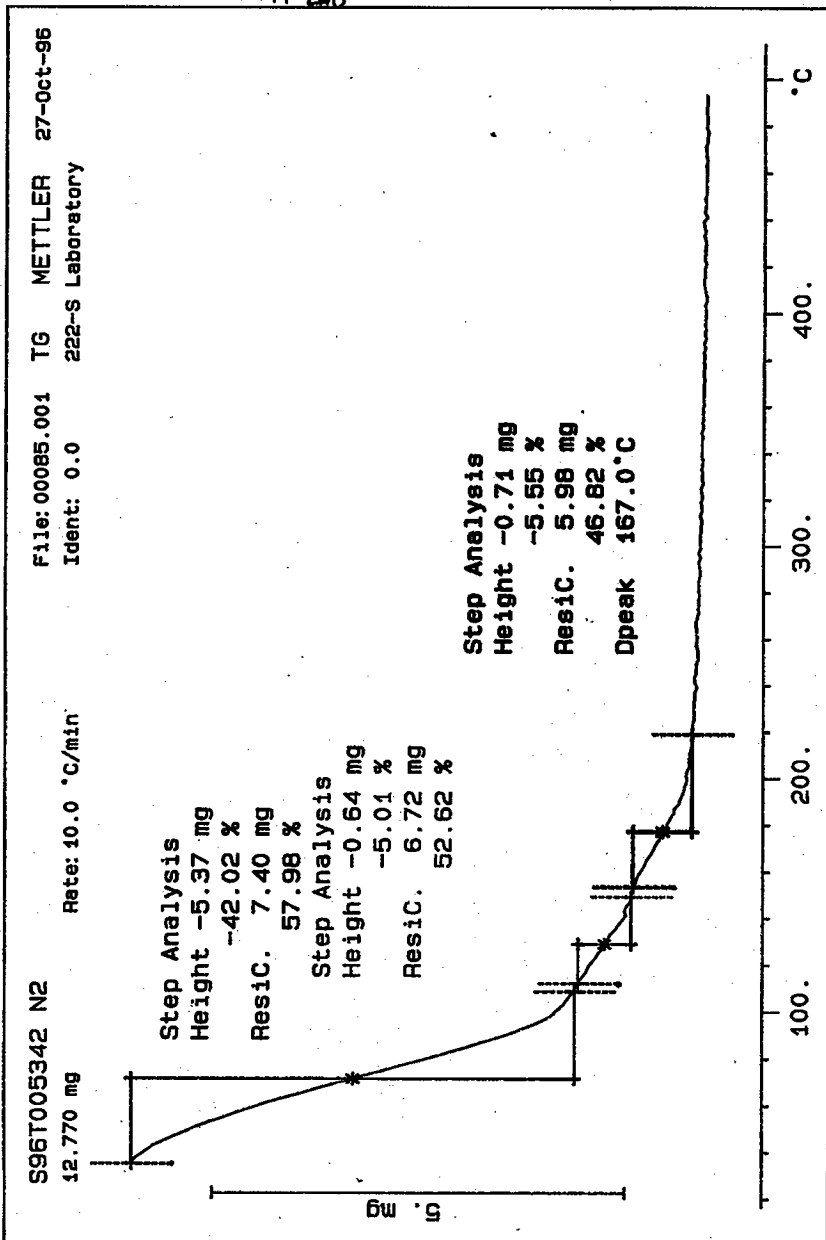
50.

100.

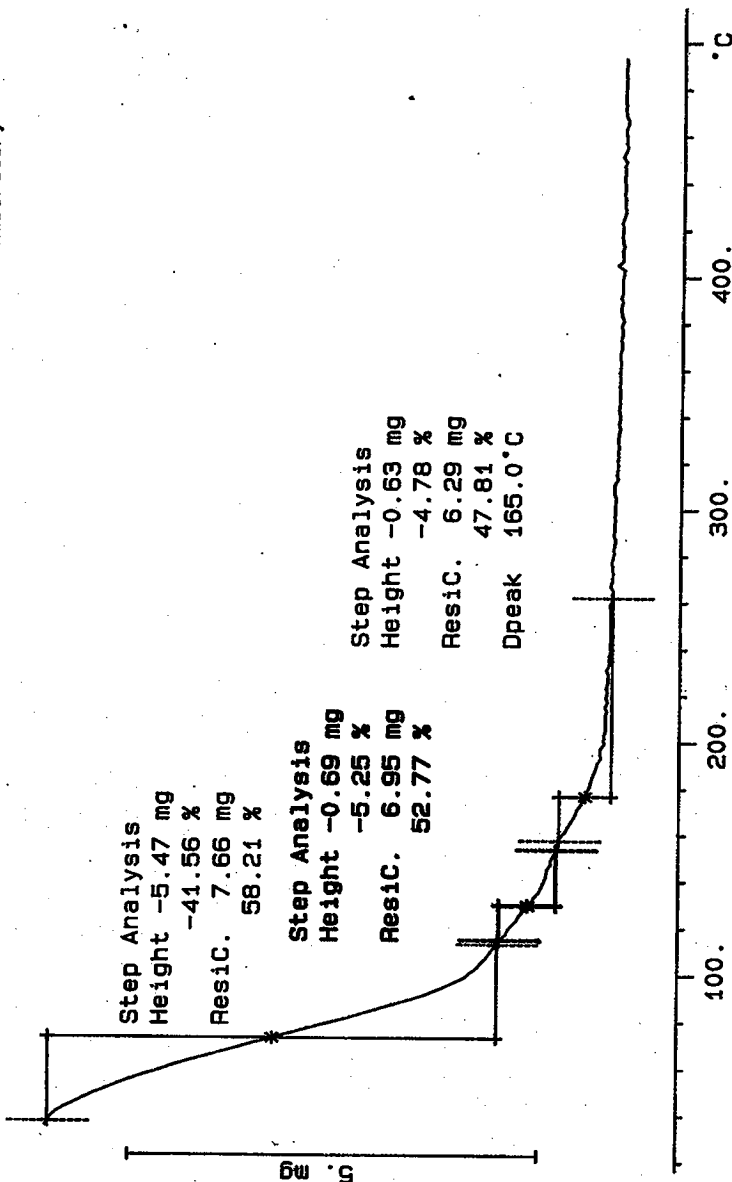
150.

200.

°C



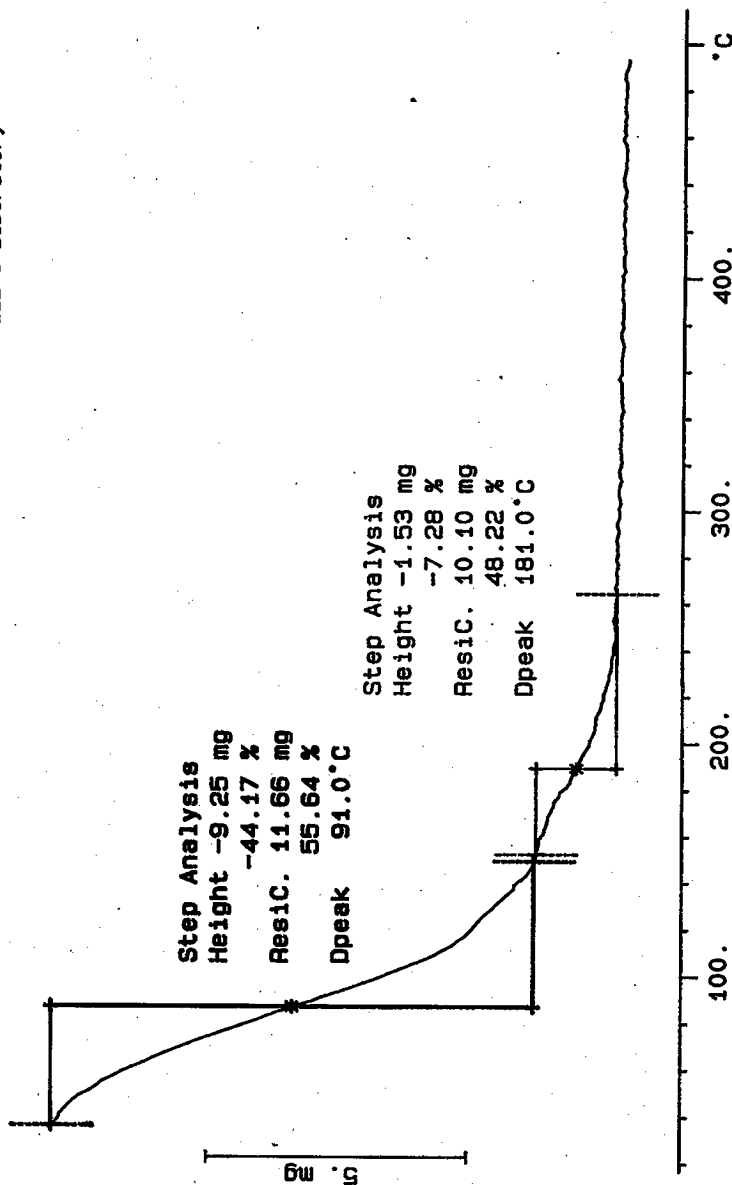
S96T005342 DUP N2
 13.166 mg
 Rate: 10.0 °C/min
 File: 00087.001 TG METTLER 27-Oct-96
 Ident: 0.0 222-S Laboratory



20.949 mg

Rate: 10.0 °C/min

File: 00089.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory



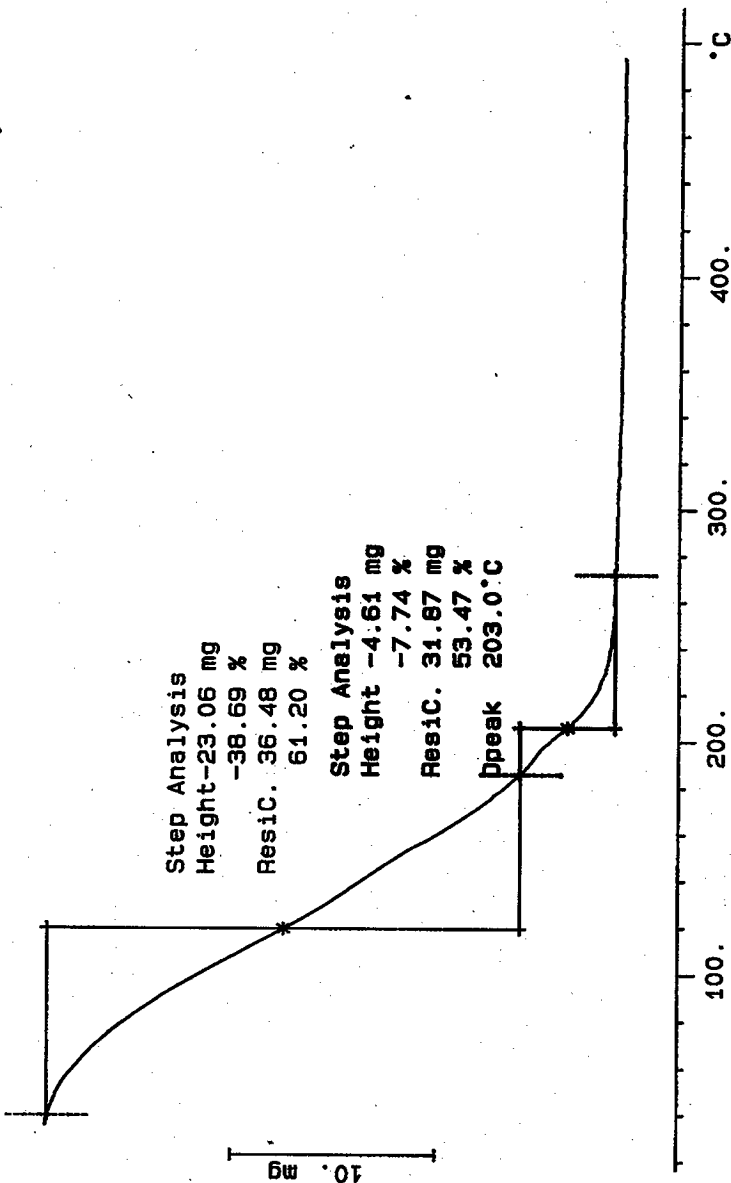
S96T005349 DUP N2
59.601 mg

File: 00091.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-23.06 mg
-38.69 %
Resid. 36.48 mg
61.20 %

Step Analysis
Height -4.61 mg
-7.74 %
Resid. 31.87 mg
53.47 %
Dpeak 203.0 °C



LABCORE Data Entry Template for Worklist# 14235

Analyst: RAG Instrument: TGA0 1 Book # 8218A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>58.63*</u>	<u>N/A</u>	%
96001336	BY-111	2 SAMPLE	S96T005350	0	TGA-01	SOLID	<u>N/A</u>	<u>44.18</u>		%
96001336	BY-111	3 DUP	S96T005350	0	TGA-01	SOLID	<u>44.18</u>	<u>40.40</u>	<u>N/A</u>	%
		4 STD			TGA-01	SOLID	<u>59.2</u>	<u>59.38</u>	<u>N/A</u>	%
96001336	BY-111	5 SAMPLE	S96T005383	0	TGA-01	SOLID	<u>N/A</u>	<u>46.03</u>		%
96001336	BY-111	6 DUP	S96T005383	0	TGA-01	SOLID	<u>46.03</u>	<u>46.51</u>	<u>N/A</u>	%

Final page for worklist # 14235

See attached for signatures
Analyst Signature Date

10-29-96
2007

10-30-96
Analyst Signature Date

Verified/Validated by
Blandina
Valezzueli-1-96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number,
R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 14235

Analyst: R/A Instrument: TGA0 1 Book # E2W3A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
96001336	BY-111	2 SAMPLE	S96T005350	0	TGA-01	SOLID	N/A			%
96001336	BY-111	3 DUP	S96T005350	0	TGA-01	SOLID			N/A	%
96001336	BY-111	4 SAMPLE	S96T005383	0	TGA-01	SOLID	N/A			%
96001336	BY-111	5 DUP	S96T005383	0	TGA-01	SOLID			N/A	%

Final page for worklist # 14235

RaeAnn Green 10-27-96
Analyst Signature Date

Analyst Signature Date

TGA-01 worklist needed
a standard added.

10-29-96

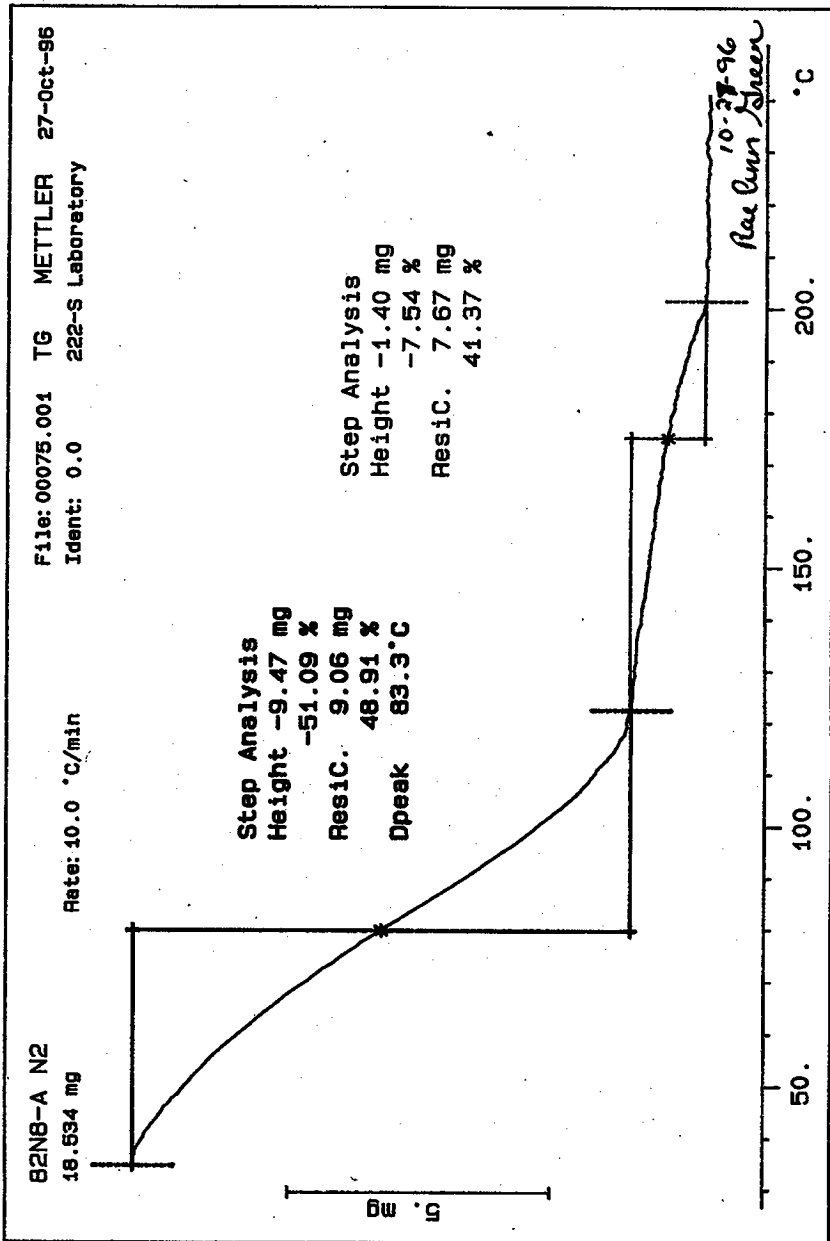
Blandina

Valenzuela

Data Entry Comments:

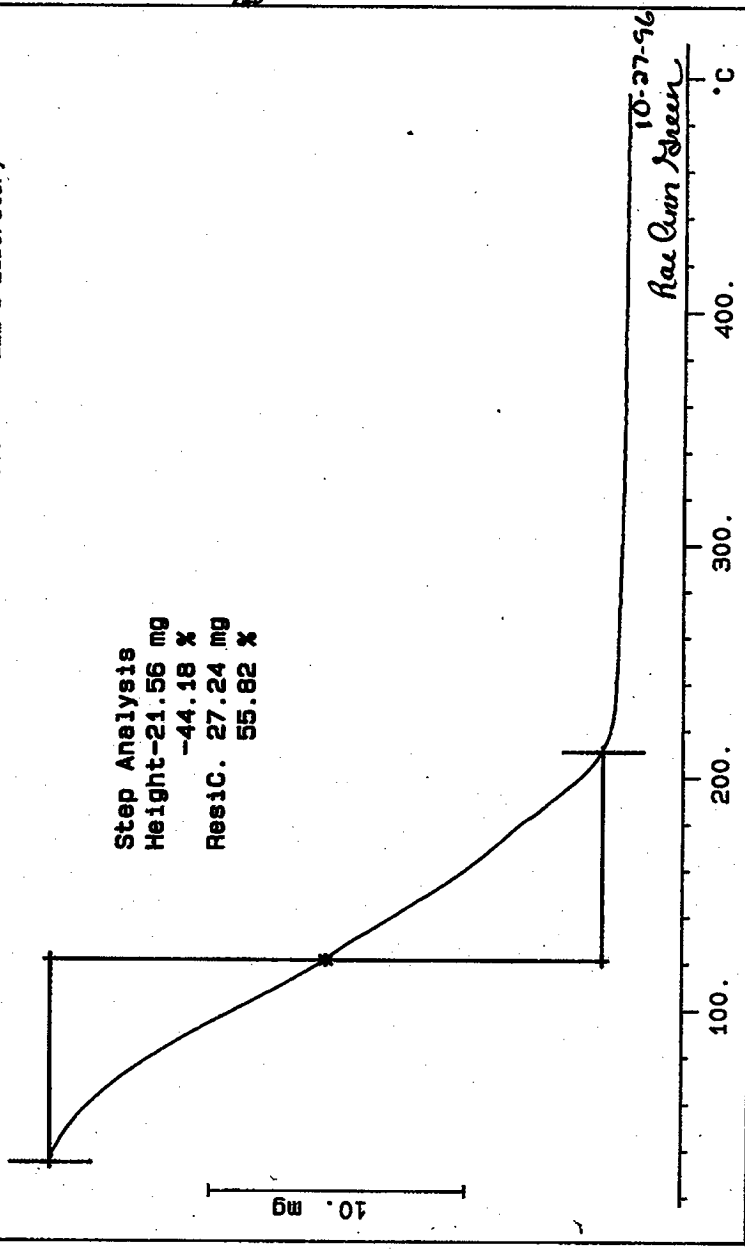
Ran trip on S96T005350 10-28-96

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ~~388~~ TO 394.



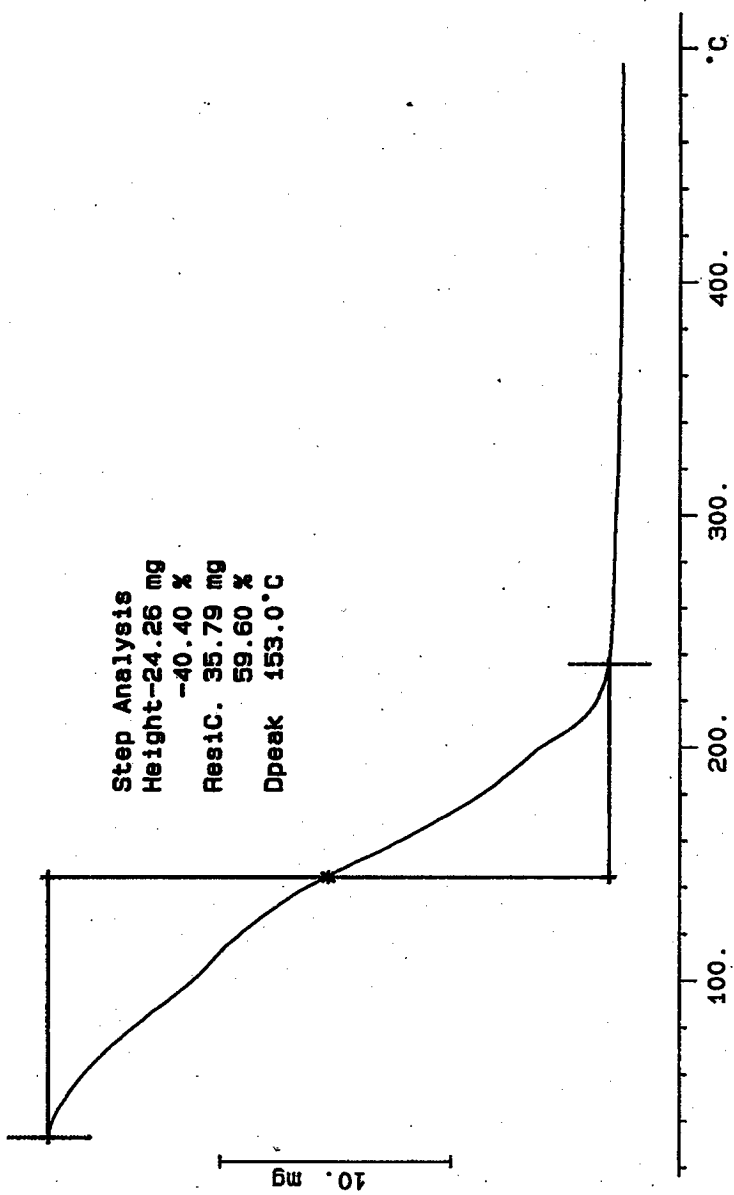
S96T005350 SAM N2
48.798 mg
Rate: 10.0 °C/min
File: 00093.001 TG METTLER 27-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-21.56 mg
-44.18 %
ResidC. 27.24 mg
55.82 %



S96T005350 DUP N2
60.052 mg
Rate: 10.0 °C/min
File: 00095.001 TG METTLER 28-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-24.26 mg
-40.40 %
ResidC. 35.79 mg
59.60 %
Dpeak 153.0 °C

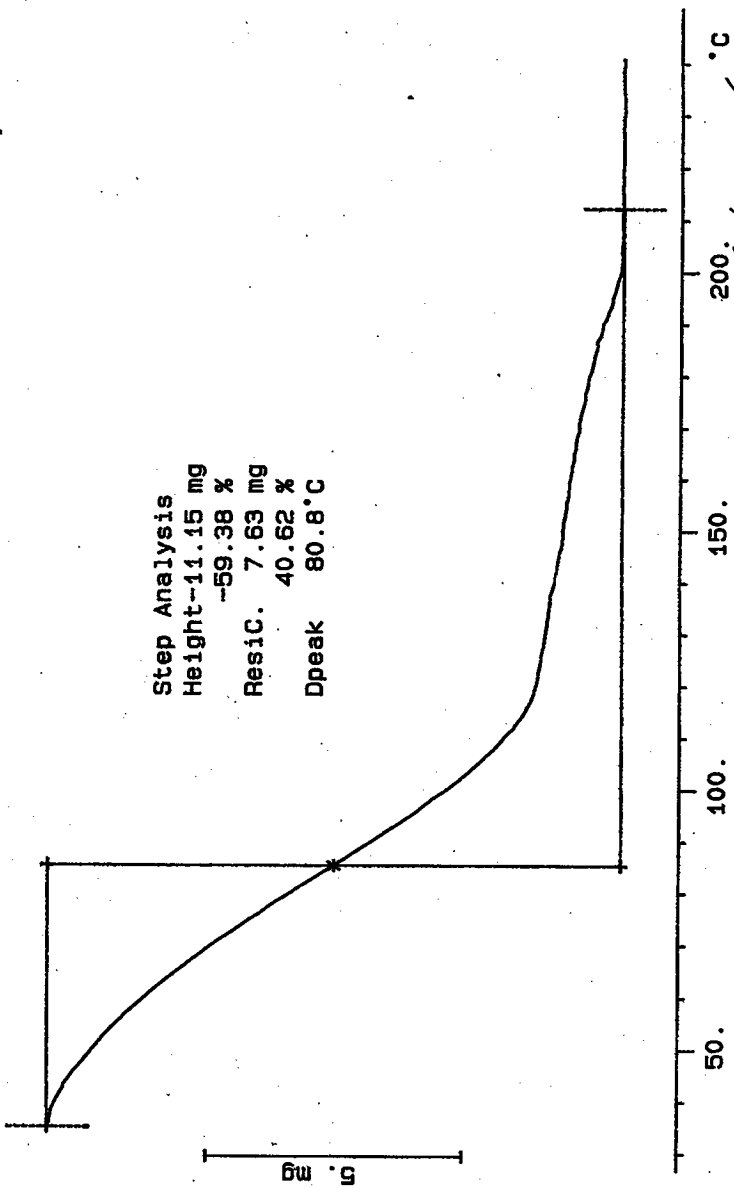


TGA STD 82NBA N2
18.783 mg

File: 00002.001
Ident: 0.0

Rate: 10.0 °C/min

TG METTLER 28-Oct-96
222-S Laboratory



Handwritten signature
10-28-96

S96T005383 N2

36.620 mg

Rate: 10.0 °C/min

File: 00004.001

Ident: 0.0

TG METTLER

28-Oct-96

222-S Laboratory

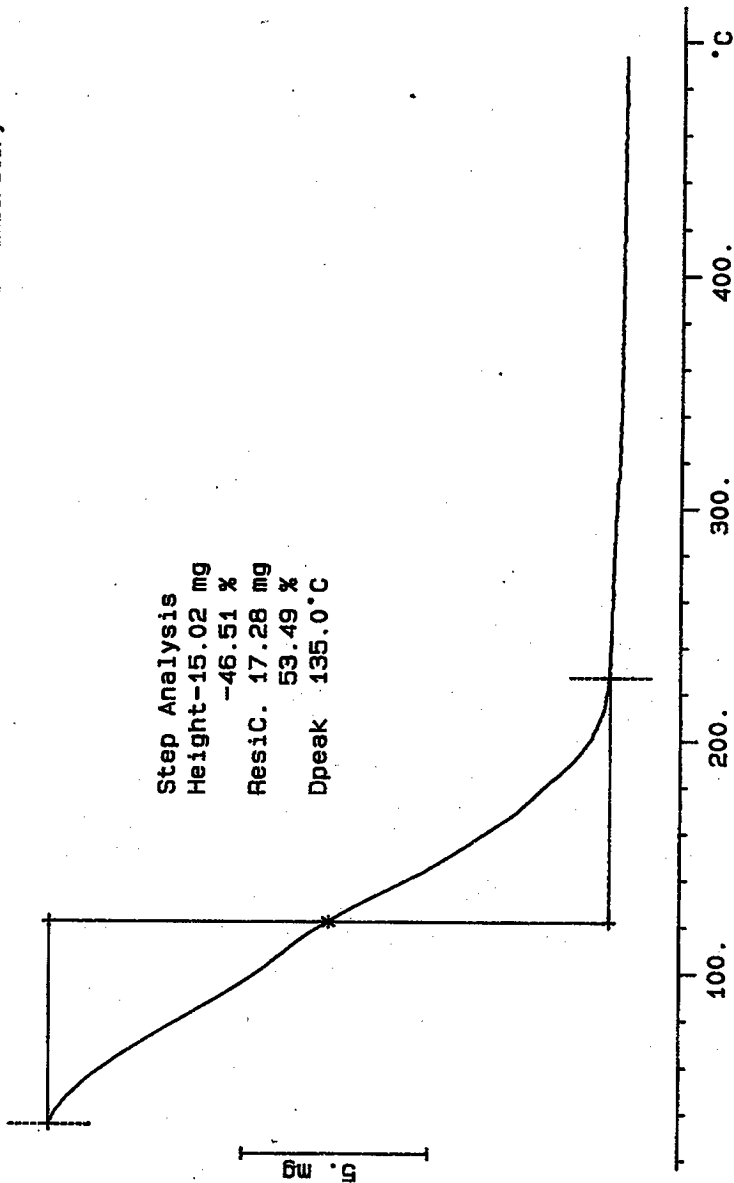
Step Analysis
Height-16.40 mg
-46.03 %
ResidC. 19.21 mg
53.93 %
Dpeak 141.0 °C

10. mg

100. 200. 300. 400. °C

S96T005383 DUP N2
32.296 mg
Rate: 10.0 °C/min
File: 00006.001 TG METTLER 28-Oct-96
Ident: 0.0 222-S Laboratory

Step Analysis
Height-15.02 mg
-46.51 %
Resid. 17.28 mg
53.49 %
Dpeak 135.0 °C



LABCORE Data Entry Template for Worklist# 14236

Analyst: JLS Instrument: TGA0 1 Book # 82N8A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.2</u>	<u>59.09</u>	<u>*</u>	<u>N/A</u> %
96001336	BY-111	2 SAMPLE	S96T005384	0	TGA-01	SOLID	<u>N/A</u>	<u>50.14</u>		%
96001336	BY-111	3 DUP	S96T005384	0	TGA-01	SOLID	<u>50.14</u>	<u>48.30</u>		<u>N/A</u> %

Final page for worklist # 14236

JLS 10-22-96
Analyst Signature Date

Frederick Mark 10-24-96
Analyst Signature Date

Verified/Validated by
Blandina Valenzuela
10-30-96

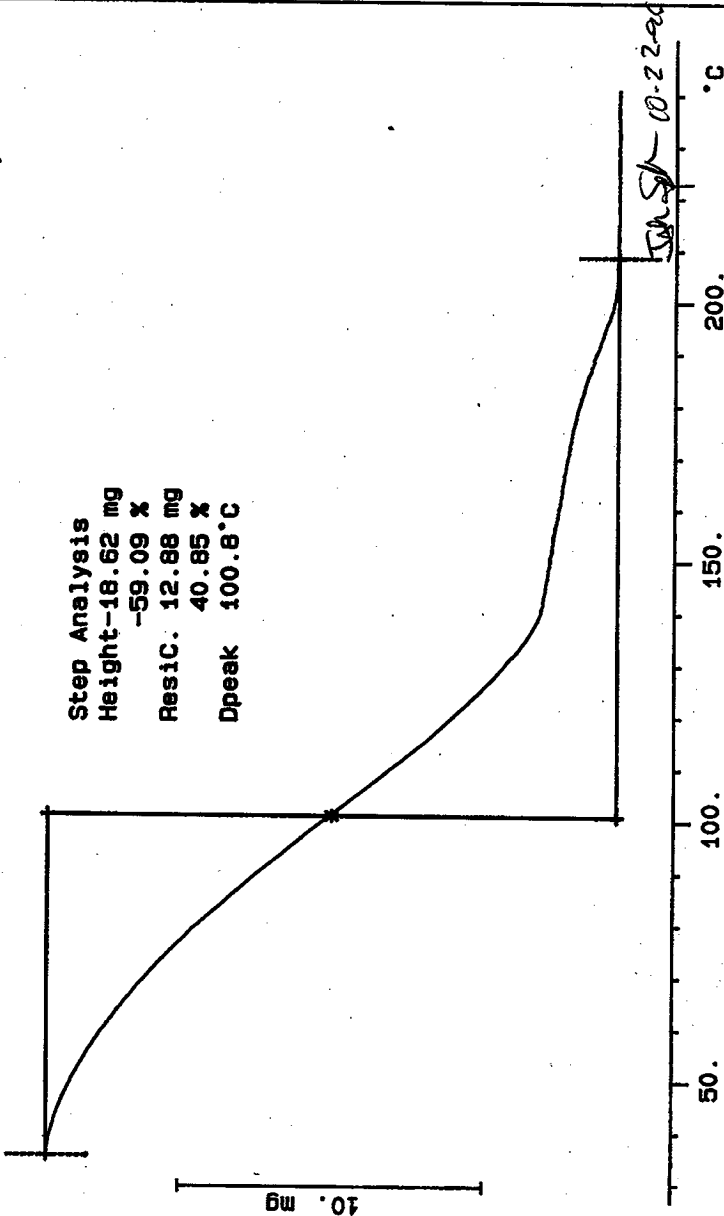
Data Entry Comments:

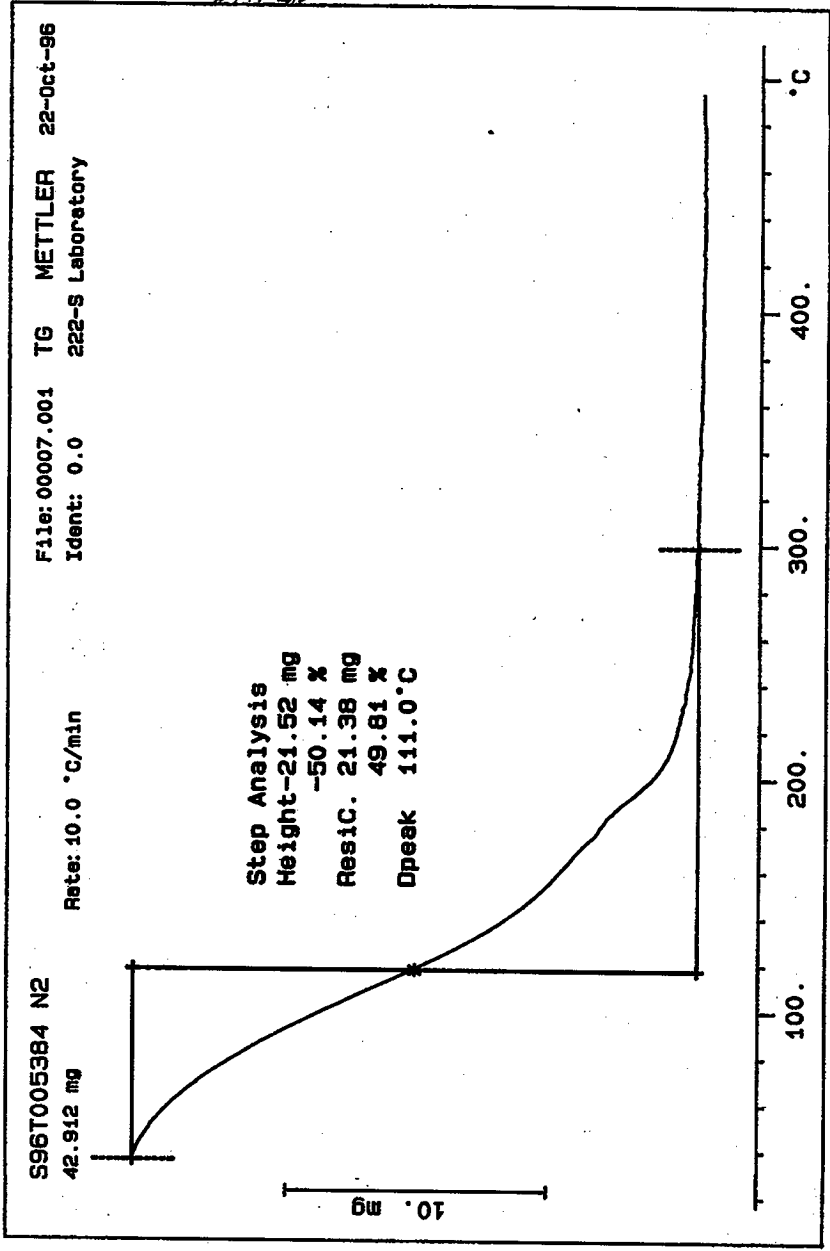
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 395 TO 397.

TGA STD 82N8A N2
31.516 mg

File: 00002.001 TG METTLER 22-Oct-96
Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

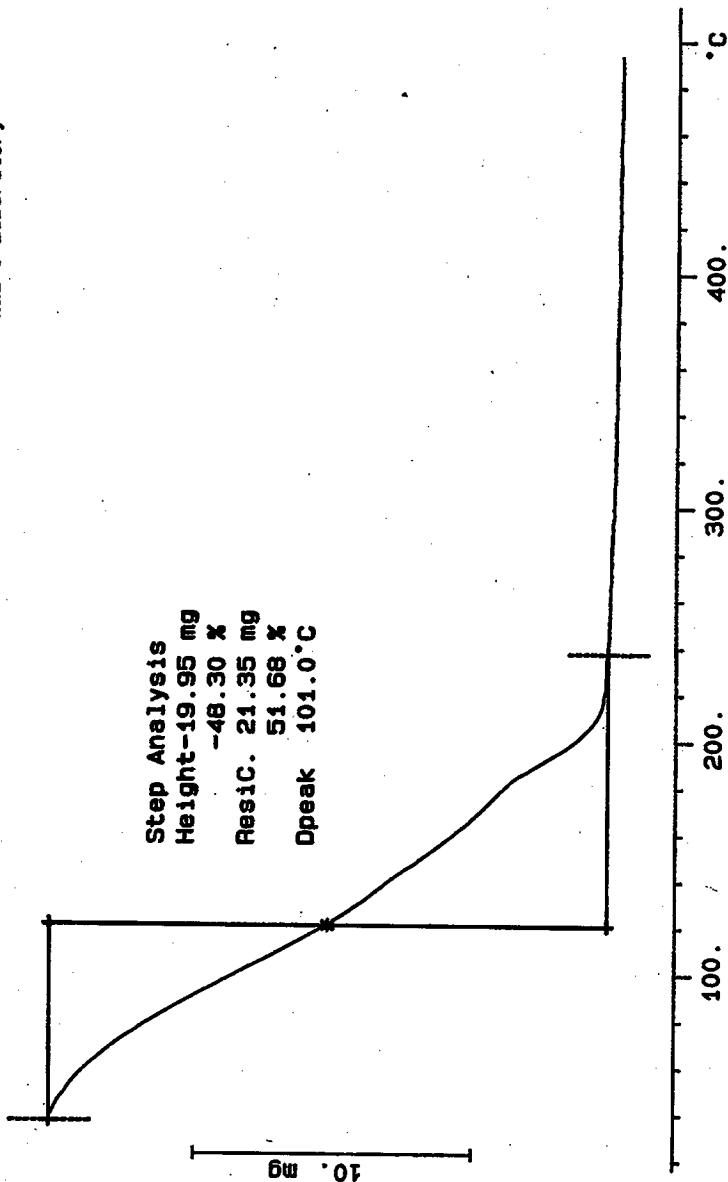
Step Analysis
Height-18.62 mg
-59.09 %
Resid. 12.88 mg
40.85 %
Dpeak 100.8 °C





S96T005384 DUP N2
41.317 mg
Rate: 10.0 °C/min
File: 00009.001 TG METTLER 22-Oct-98
Ident: 0.0 222-S Laboratory

Step Analysis
Height-19.95 mg
-48.30 %
ResidC. 21.35 mg
51.68 %
Dpeak 101.0 °C



LABCORE Data Entry Template for Worklist# 14710

Analyst: RGA Instrument: TGA0 1 Book # 82N8-A

Method: LA-560-112 Rev/Mod C-0

Worklist Comment: BY-111 TGA, RUN UNDER N2. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		4-SAMPLE			TGA-01	SOLID	<u>59.2</u>	<u>58.82</u>	<u>N/A</u>	%
96001257	BY-111	2 SAMPLE	S96T005158	1	TGA-01	SOLID	<u>N/A</u>	<u>30.82</u>		%
96001257	BY-111	3 DUP	S96T005158	1	TGA-01	SOLID	<u>30.82</u>	<u>29.91</u>	<u>N/A</u>	%

Final page for worklist # 14710

[Signature] 11-6-96
Analyst Signature Date

[Signature] 11-8-96
Analyst Signature Date

Verified/Validated by

Blancina

Valenzuela

11-12-96

Data Entry Comments:

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 392 TO 394.

TGA STD 82N8A N2

13.954 mg

Rate: 10.0 °C/min

File: 00048.001

TG

06-Nov-96

Ident: 0.0

222-S Laboratory

Step Analysis
Height -8.21 mg
-58.82 %
Resid. 5.71 mg
40.90 %
Dpeak 75.0 °C

5. mg

50.

100.

150.

200.

°C

11-6-96

S96T005158 N2

49.570 mg

Rate: 10.0 °C/min

File: 00049.001 TG METTLER 06-Nov-96
Ident: 0.0 222-S Laboratory

Step Analysis

Height -5.85 mg

-11.79 %

Resid. 43.71 mg

88.18 %

Step Analysis

Height -9.44 mg

-19.03 %

Resid. 34.27 mg

69.14 %

Dpeak 155.0 °C

10. mg

100.

200.

300.

400.

°C

—

LABCORE Data Entry Template for Worklist# 14222

Analyst: DPB Instrument: BA001 Book # 133N16-A

Method: LA-510-112 Rev/Mod C-3

Worklist Comment: BY-111 SPG. RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.398</u>	<u>1.392</u>	<u>N/A</u>	Sp.G.
96001257	BY-111	2 SAMPLE	S96T005298	0	SPG-01	LIQUID	<u>N/A</u>	<u>0.989</u>		Sp.G.
96001257	BY-111	3 DUP	S96T005298	0	SPG-01	LIQUID	<u>0.989</u>	<u>0.990</u>	<u>N/A</u>	Sp.G.
96001257	BY-111	4 SAMPLE	S96T005314	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.416</u>		Sp.G.
96001257	BY-111	5 DUP	S96T005314	0	SPG-01	LIQUID	<u>1.416</u>	<u>1.420</u>	<u>N/A</u>	Sp.G.
96001336	BY-111	6 SAMPLE	S96T005346	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.433</u>		Sp.G.
96001336	BY-111	7 DUP	S96T005346	0	SPG-01	LIQUID	<u>1.433</u>	<u>1.420</u>	<u>N/A</u>	Sp.G.
96001336	BY-111	8 SAMPLE	S96T005357	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.435</u>		Sp.G.
96001336	BY-111	9 DUP	S96T005357	0	SPG-01	LIQUID	<u>1.435</u>	<u>1.414</u>	<u>N/A</u>	Sp.G.

Final page for worklist # 14222

Analyst Signature

Date

Analyst Signature

Date

validated into Labcore by John McClellan, 12/26/96

Data Entry Comments:

Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

SPECIFIC GRAVITY: LA-510-112 (C-3)

WORKLIST

#

14222

ANALYST

INITIALS

DPB

ANALYSIS

DATE

12/20/86

INSTRUMENT

CODE

☐ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

133N16-A

REPLICATE
1.3589
1.3697
1.5786
1.4989

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

1.3589

1.5672

1.4989

☒ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

596T005298

REPLICATE
1.3843
1.3861
1.5345
1.4989

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

1.3843

1.5325

1.4989

☒ SAMPLE☐ STANDARD☐ DUPLICATE

403

SAMPLE # =

STD # =

596T005314

REPLICATE
1.4174
1.3683
1.5812
1.4789

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

1.4174

1.6296

1.4989

☐ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

REPLICATE

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

☐ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

596T005346

REPLICATE
1.4476
1.6688
1.4789

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

1.3873

1.6031

1.4989

☒ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

596T005357

REPLICATE
1.4379
1.6498
1.4789

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

1.4247

1.6393

1.4989

☐ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

REPLICATE

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

☐ SAMPLE☐ STANDARD☐ DUPLICATE

SAMPLE # =

STD # =

REPLICATE

TARE WEIGHT (g)

GROSS WEIGHT (g)

VOL. of SOLUTION (mL)

HVF
2-7-87

WHC SD-WM-DP-203, REV. 0

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		STD	REPLICATE
STD	Gross Weight (W2)	1.5672	1.5786
Work List	Tare Weight (W1)	1.3589	1.3697
14222	Weight of Solution (W2-W1)	0.2083	0.2089
Test Code	Volume of Solution μ L	149.8900	149.8900
SPG-01	Specific Gravity	1.3897	1.3937
Matrix	Specific Gravity (Average)	1.3917	
LIQUID			
Sample #			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
12/20/96			
Time			
04:30 AM			

v RESULT v	
Specific Gravity Average =	1.392

Data Entry by:	<i>John Mark</i>	Date:	12/23/96
Approved by:	<i>John McChesney</i>	Date:	12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMP	REPLICATE
SAMP	Gross Weight (W2)	1.5325	
Work List	Tare Weight (W1)	1.3843	
14222	Weight of Solution (W2-W1)	0.1482	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	0.9887	NA
Matrix			
LIQUID			
Sample #			
S96T005298			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
DPB	Specific Gravity = $[(W2-W1) \times 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} \times 1.000 \text{ g/mL}]$		
Date			
12/20/96	v RESULT v		
Time	Specific Gravity =	0.989	
04:30 AM			

Data Entry by: *Frank March* Date: 12/23/96
 Approved by: *Jim Mc Cluskey* Date: 12/26/96
 Form 510112L1 Rev. 1.1 Page 1 of 1

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

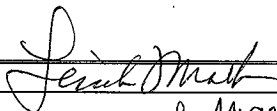
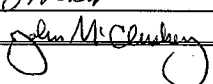
Type		SAMP-DUP	REPLICATE
SAMP-DUP	Gross Weight (W2)	1.5345	
Work List	Tare Weight (W1)	1.3861	
14222	Weight of Solution (W2-W1)	0.1484	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	0.9901	NA
Matrix			
LIQUID			
Sampler#			
S96T005298			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
12/20/96	ν RESULT ν		
Time	Specific Gravity =	0.990	
04:30 AM			

Data Entry by:	<i>Jessie Omark</i>	Date:	12/23/96
Approved by:	<i>John Mc Clellan</i>	Date:	12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMP	REPLICATE
SAMP	Gross Weight (W2)	1.6296	
Work List	Tare Weight (W1)	1.4174	
14222	Weight of Solution (W2-W1)	0.2122	0
Test Code	Volume of Solution μL	149.8900	
SPG-01	Specific Gravity	1.4157	NA
Matrix			
LIQUID			
Sample #			
S96T005314			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = [(W2-W1) * 1000 μL/mL] / [Vol. of Solution μL * 1.000 g/mL]		
DPB			
Date			
12/20/96	v RESULT v		
Time	Specific Gravity =	1.416	
04:30 AM			

Data Entry by: 	Date: 12/23/96
Approved by: 	Date: 12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMP-DUP	REPLICATE
SAMP-DUP	Gross Weight (W2)	1.5812	
Work List	Tare Weight (W1)	1.3683	
14222	Weight of Solution (W2-W1)	0.2129	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	1.4204	NA
Matrix			
LIQUID			
Sample #			
S96T005314			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
12/20/96	ν RESULT ν		
Time	Specific Gravity =	1.420	
04:30 AM			

Data Entry by:	<i>Frank Mark</i>	Date:	12/23/96
Approved by:	<i>John Mc Clellan</i>	Date:	12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMP	REPLICATE
SAMP	Gross Weight (W2)	1.6021	
Work List	Tare Weight (W1)	1.3873	
14222	Weight of Solution (W2-W1)	0.2148	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	1.4331	NA
Matrix			
LIQUID			
Sample #			
S96T005346			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
DPB	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
12/20/96	v RESULT v		
Time	Specific Gravity =	1.433	
04:30 AM			

Data Entry by:	<i>Paul Mack</i>	Date:	12/23/96
Approved by:	<i>John McChesney</i>	Date:	12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

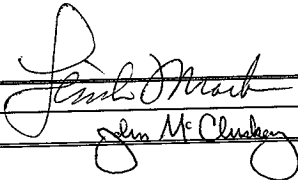
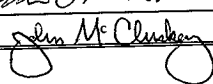
Type		SAMP-DUP	REPLICATE
SAMP-DUP	Gross Weight (W2)	1.6605	
Work List	Tare Weight (W1)	1.4476	
14222	Weight of Solution (W2-W1)	0.2129	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	1.4204	NA
Matrix			
LIQUID			
Sample #			
S96T005346			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
DPB			
Date	∇ RESULT ∇		
12/20/96	Specific Gravity =	1.420	
Time			
04:30 AM			

Data Entry by:	<i>John Mark</i>	Date:	12/23/96
Approved by:	<i>John Mc Cluskey</i>	Date:	12/26/96
Form 510112L1 Rev. 1.1		Page 1 of 1	

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

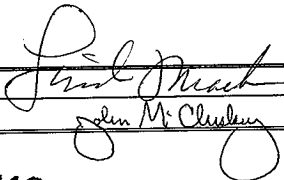
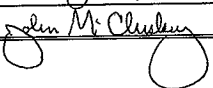
TYPE		SAMP	REPLICATE
SAMP	Gross Weight (W2)	1.6398	
Work List	Tare Weight (W1)	1.4247	
14222	Weight of Solution (W2-W1)	0.2151	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	1.4351	NA
Matrix			
LIQUID			
Sample #			
S96T005357			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
DPB			
Date			
12/20/96	$\checkmark$ RESULT $\checkmark$		
Time	Specific Gravity =	1.435	
04:30 AM			

Data Entry by:		Date:	12/23/96
Approved by:		Date:	12/26/96

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

SPECIFIC GRAVITY : LA-510-112 (C-3)

Type		SAMP-DUP	REPLICATE
SAMP-DUP	Gross Weight (W2)	1.6498	
Work List	Tare Weight (W1)	1.4379	
14222	Weight of Solution (W2-W1)	0.2119	0
Test Code	Volume of Solution μ L	149.8900	
SPG-01	Specific Gravity	1.4137	NA
Matrix			
LIQUID			
Sample #			
S96T005357			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
BA001	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L}/\text{mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g}/\text{mL}]$		
DPB			
Date			
12/20/96	v RESULT v		
Time	Specific Gravity =	1.414	
04:30 AM			

Data Entry by:  Date: 12/23/96
 Approved by:  Date: 12/26/96
 Form 510112L1 Rev. 1.1 Page 1 of 1

LABCORE Completed Worklist Report for Worklist# 14174

Analyst: krq

Instrument: IC01

Book# 36N20C

Method: LA53310S Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	01C-QC F	QC	1	<1.20e-2		ug/mL
1 CCB	0	0	01C-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	0	01C-QC NO2	QC	1	<1.08e-1		ug/mL
1 CCB	0	0	01C-QC BR	QC	1	<1.25e-1		ug/mL
1 CCB	0	0	01C-QC NO3	QC	1	<1.39e-1		ug/mL
1 CCB	0	0	01C-QC P04	QC	1	<1.20e-1		ug/mL
1 CCB	0	0	01C-QC S04	QC	1	<1.38e-1		ug/mL
1 CCB	0	0	01C-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	0	01C-QC F	QC	5.90e01	6.41e+01	108.644 % Recovery	
2 CCV	0	0	01C-QC CL	QC	7.90e01	7.67e+01	97.089 % Recovery	
2 CCV	0	0	01C-QC NO2	QC	5.41e02	5.20e+02	96.118 % Recovery	
2 CCV	0	0	01C-QC BR	QC	5.89e02	5.81e+02	98.642 % Recovery	
2 CCV	0	0	01C-QC NO3	QC	5.94e02	5.69e+02	95.791 % Recovery	
2 CCV	0	0	01C-QC P04	QC	5.44e02	5.15e+02	94.669 % Recovery	
2 CCV	0	0	01C-QC S04	QC	6.31e02	6.28e+02	99.525 % Recovery	
2 CCV	0	0	01C-QC OXALATE2	QC	5.25e02	5.45e+02	103.810 % Recovery	
3 SAMPLE	S96T005153	0	01C-01 F-02	LIQUID	N/A	1.333e+01	13.350	ug/mL
3 SAMPLE	S96T005153	0	01C-01 CL-02	LIQUID	N/A	3.456e+01	18.890	ug/mL
3 SAMPLE	S96T005153	0	01C-01 NO2-02	LIQUID	N/A	3.811e+02	120.000	ug/mL
3 SAMPLE	S96T005153	0	01C-01 BR-02	LIQUID	N/A	3.153e+04	138.900	ug/mL
3 SAMPLE	S96T005153	0	01C-01 NO3-02	LIQUID	N/A	2.049e+03	154.400	ug/mL
3 SAMPLE	S96T005153	0	01C-01 P04-02	LIQUID	N/A	1.333e+02	133.300	ug/mL
3 SAMPLE	S96T005153	0	01C-01 S04-02	LIQUID	N/A	1.533e+02	153.300	ug/mL
3 SAMPLE	S96T005153	0	01C-01 OXALATE2	LIQUID	N/A	1.167e+02	116.700	ug/mL
4 DUP	S96T005153	0	01C-01 F-02	LIQUID	<1.33e1	<1.33e1		RPD
4 DUP	S96T005153	0	01C-01 CL-02	LIQUID	3.46e+01	3.93e+01	12.720	RPD
4 DUP	S96T005153	0	01C-01 NO2-02	LIQUID	3.81e+02	3.71e+02	2.660	RPD
4 DUP	S96T005153	0	01C-01 BR-02	LIQUID	3.15e+04	3.17e+04	0.633	RPD
4 DUP	S96T005153	0	01C-01 NO3-02	LIQUID	2.05e+03	2.09e+03	1.932	RPD
4 DUP	S96T005153	0	01C-01 P04-02	LIQUID	<1.33e2	<1.33e2		RPD
4 DUP	S96T005153	0	01C-01 S04-02	LIQUID	<1.53e2	<1.53e2		RPD
4 DUP	S96T005153	0	01C-01 OXALATE2	LIQUID	<1.17e2	<1.17e2		RPD
5 SPK	S96T005153	0	01C-01 F-02	LIQUID	5.90e01	6.50e+01	110.169 % Recovery	
5 SPK	S96T005153	0	01C-01 CL-02	LIQUID	7.90e01	7.33e+01	92.785 % Recovery	
5 SPK	S96T005153	0	01C-01 NO2-02	LIQUID	5.41e02	4.89e+02	90.388 % Recovery	
5 SPK	S96T005153	0	01C-01 BR-02	LIQUID	5.89e02	5.49e+02	93.209 % Recovery	
5 SPK	S96T005153	0	01C-01 NO3-02	LIQUID	5.94e02	5.70e+02	95.960 % Recovery	
5 SPK	S96T005153	0	01C-01 P04-02	LIQUID	5.44e02	5.03e+02	92.463 % Recovery	
5 SPK	S96T005153	0	01C-01 S04-02	LIQUID	6.31e02	6.12e+02	96.989 % Recovery	
5 SPK	S96T005153	0	01C-01 OXALATE2	LIQUID	5.25e02	5.34e+02	101.714 % Recovery	
6 SAMPLE	S96T005298	0	01C-01 F-02	LIQUID	N/A	1.160e-01	1.20e-002	ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14174

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S96T005298	0	0	IC-01	CL-02	LIQUID	N/A	5.631e+00	1.70e-002 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	NO2-02	LIQUID	N/A	1.421e+00	0.108 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	BR-02	LIQUID	N/A	1.260e-01	0.125 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	NO3-02	LIQUID	N/A	3.779e+00	0.139 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	PO4-02	LIQUID	N/A	1.200e-01	0.120 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	SO4-02	LIQUID	N/A	1.343e+01	0.138 ug/mL
6 SAMPLE	S96T005298	0	0	IC-01	OXALATE2	LIQUID	N/A	1.050e-01	0.105 ug/mL
7 DUP	S96T005298	0	0	IC-01	F-02	LIQUID	1.16e-01	1.16e-01	0.000 RPD
7 DUP	S96T005298	0	0	IC-01	CL-02	LIQUID	5.63e+00	5.74e+00	1.935 RPD
7 DUP	S96T005298	0	0	IC-01	NO2-02	LIQUID	1.42e+00	1.41e+00	0.707 RPD
7 DUP	S96T005298	0	0	IC-01	BR-02	LIQUID	1.26e-01	1.27e-01	0.791 RPD
7 DUP	S96T005298	0	0	IC-01	NO3-02	LIQUID	3.78e+00	3.82e+00	1.053 RPD
7 DUP	S96T005298	0	0	IC-01	PO4-02	LIQUID	<1.20e-1	<1.20e-1	RPD
7 DUP	S96T005298	0	0	IC-01	SO4-02	LIQUID	1.34e+01	1.34e+01	0.000 RPD
7 DUP	S96T005298	0	0	IC-01	OXALATE2	LIQUID	<1.05e-1	<1.05e-1	RPD

Final page for worklist# 14174

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

J. Anastro
Reviewer Signature _____ Date 1-13-97

Validated 1-13-97

LABCORE Data Entry Template for Worklist# 14174

Analyst:

[Signature]

Instrument: IC0

IC01

Bank# *360120-C*

Method: LA-533-105

Rev/Mod

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T005153 0		@IC-01	LIQUID	96001257	BY-111
Analytes Requested:			BR-02	CL-02	F-02	NO2-02 , NO3-02 ,
			OXALATE2,	PO4-02	SO4-02	
4 DUP	S96T005153 0		@IC-01	LIQUID		
5 SPK	S96T005153 0		@IC-01	LIQUID		
6 SAMPLE	S96T005298 0		@IC-01	LIQUID	96001257	BY-111
Analytes Requested:			BR-02	CL-02	F-02	NO2-02 , NO3-02 ,
			OXALATE2,	PO4-02	SO4-02	
7 DUP	S96T005298 0		@IC-01	LIQUID		

Final page for worklist # 14174

Analyst Signature

Date

1/05/97

Analyst Signature

Date

14174JA.CSV uploaded 1-13-97 Hea
validated 1-13-97 Hea

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Jan-97			
Worklist#: 14174				Data File: 14174JA.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name		Dilution	
-	=>	1	CCB		-	1	97010441.d01	CCB			1.00
	=>	2	CCV			2	97010441.d02	CCV 36N20-C			101.00
	=>	3	SAMPLE	S96T005153		6	97010441.d05	S96T005298 SAMPL			1.00
	=>	4	DUP	S96T005153		7	97010441.d06	S96T005298 DUP			1.00
	=>	5	SPK	S96T005153		3	97010441.d08	S96T005153 SAMPL			1111.00
	=>	6	SAMPLE	S96T005298		4	97010441.d09	S96T005153 DUP			1111.00
	=>	7	DUP	S96T005298		5	97010441.d10	S96T005153 SPIKE			1111.00
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 01/13/1997 09:33:46

Sample Name: CCB Date: 01/04/1997 19:14:17
Data File : F:\DATA\97010441.d01
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

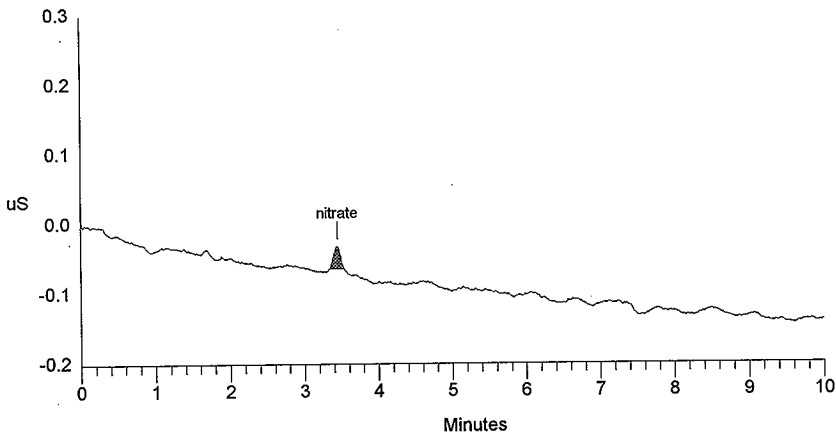
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.45	nitrate	0.018	32	193	1	-3.72
Totals			0.018	32	193		

File: 97010441.d01 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 417 TO 423

Data Reprocessed On 01/13/1997 09:50:15

```

=====
Sample Name: CCV 36N20-C                      Date: 01/04/1997 19:29:48
Data File  : F:\DATA\97010441.D02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

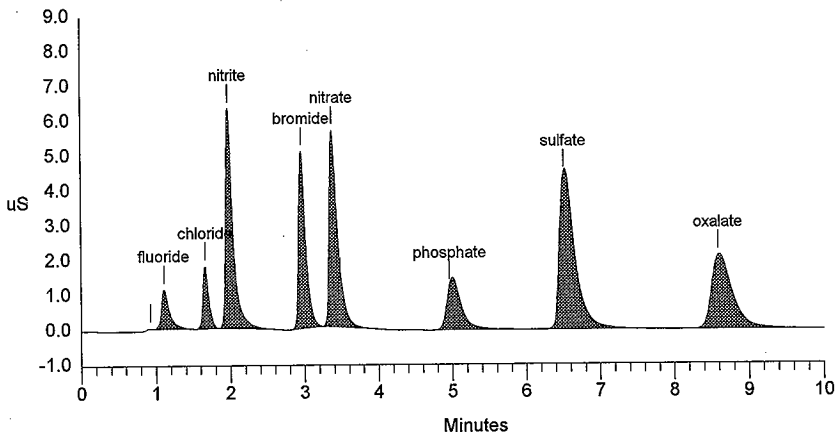
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	20	70	2	
2	1.11	fluoride	64.119	1129	8536	2	2.47
3	1.66	chloride	76.674	1781	9639	1	-0.40
4	1.97	nitrite	519.624	6305	43571	1	-2.95
5	2.96	bromide	580.712	5084	33925	1	0.00
6	3.37	nitrate	568.678	5627	44771	1	-5.77
7	4.96	phosphate	514.609	1272	20500	1	0.00
8	6.51	sulfate	627.575	4455	66599	1	-1.61
9	8.59	oxalate	544.842	2115	41687	1	-1.23
Totals			3496.834	27788	269299		

File: 97010441.D02 Sample: CCV 36N20-C



Data Reprocessed On 01/13/1997 09:33:51

```

=====
Sample Name: S96T005153 SAMPLE                      Date: 01/04/1997 23:50:21
Data File  : F:\DATA\97010441.d08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8                  Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
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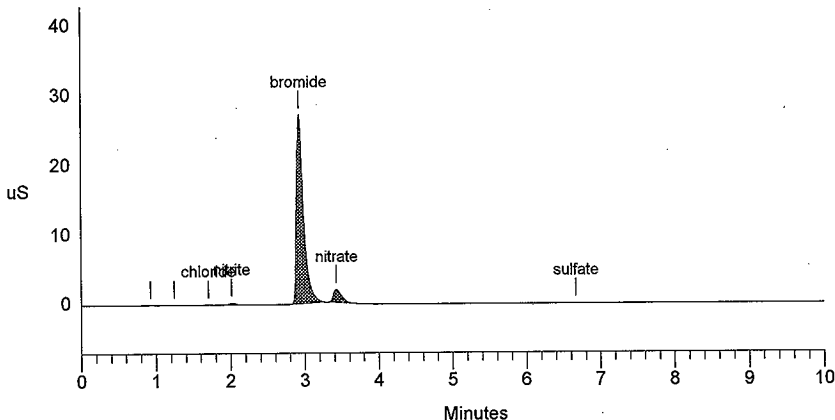
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1111    3000    5Hz    0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	32	209	2	
2	1.24		0.000	34	379	2	
3	1.70	chloride	34.564	67	340	1	2.00
4	2.01	nitrite	381.142	257	1758	1	-0.98
5	2.93	bromide	31530.756	27148	184573	1	-0.11
6	3.43	nitrate	2049.348	1898	14573	1	-4.28
7	6.67	sulfate	-32.751	36	603	1	0.81
Totals			33963.059	29473	202435		

File: 97010441.d08 Sample: S96T005153 SAMPLE



Data Reprocessed On 01/13/1997 09:33:52

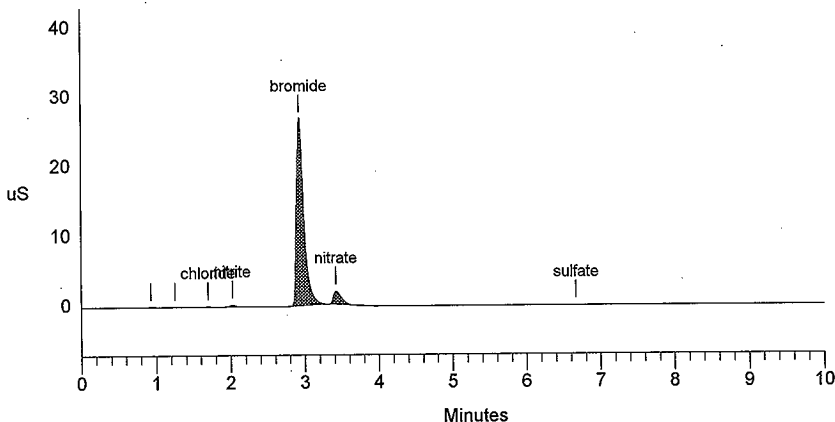
Sample Name: S96T005153 DUP Date: 01/05/1997 00:01:14
 Data File : F:\DATA\97010441.d09
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1111	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	31	167	1	
2	1.25		0.000	20	169	1	
3	1.69	chloride	39.258	76	393	1	1.60
4	2.02	nitrite	371.164	252	1681	1	-0.66
5	2.93	bromide	31722.653	26769	185834	1	-0.11
6	3.42	nitrate	2090.988	1956	14869	1	-4.47
7	6.67	sulfate	-31.467	35	615	1	0.81
Totals			34192.596	29138	203729		

File: 97010441.d09 Sample: S96T005153 DUP



Data Reprocessed On 01/13/1997 09:33:53

=====

Sample Name: S96T005153 SPIKE	Date: 01/05/1997 00:12:19
Data File : F:\DATA\97010441.d10	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 10	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

=====

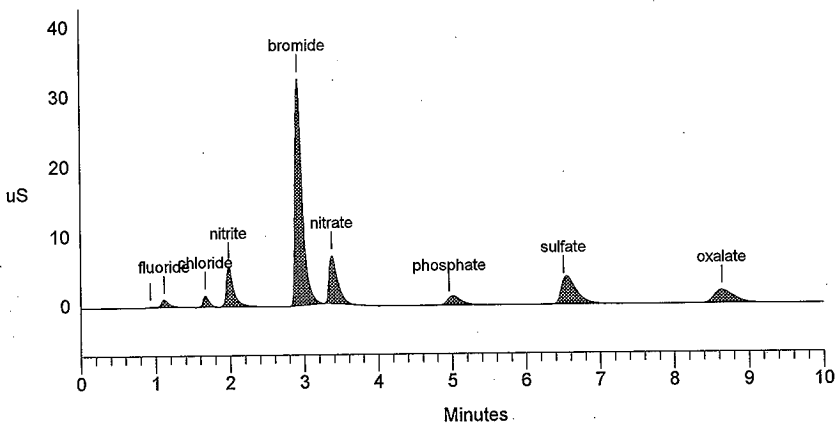
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1111	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	36	127	2	
2	1.11	fluoride	656.685	1054	7888	2	3.09
3	1.67	chloride	774.939	1626	8842	1	0.00
4	1.98	nitrite	5321.178	5850	40448	1	-2.62
5	2.92	bromide	37074.380	32605	221868	1	0.00
6	3.37	nitrate	7811.694	6964	56086	1	-5.77
7	4.96	phosphate	5077.452	1039	18321	1	0.00
8	6.51	sulfate	6178.958	3510	59590	1	-1.61
9	8.64	oxalate	5390.897	1937	37413	1	-0.61

Totals 68286.182 54620 450583

File: 97010441.d10 Sample: S96T005153 SPIKE



```

=====
Sample Name: S96T005298.SAMPLE                      Date: 01/04/1997 22:58:29
Data File  : F:\DATA\97010441.d05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

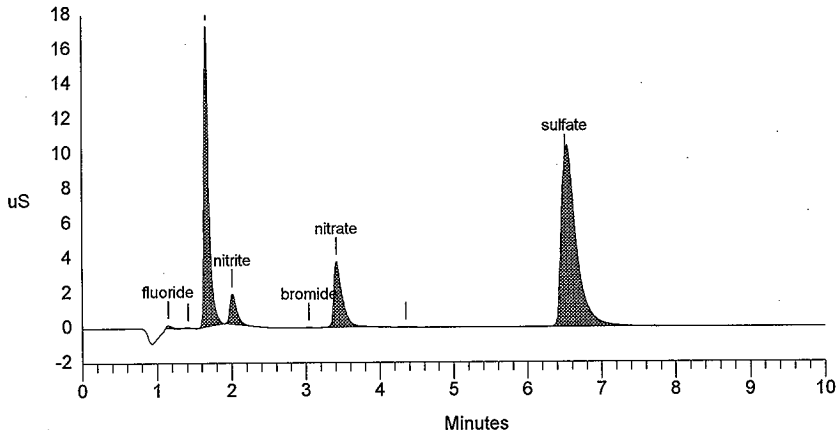
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.15	fluoride	0.116	190	977	2	6.17
2	1.41		0.000	43	368	2	
3	1.66	chloride	5.631	17263	79225	1	-0.40
4	2.01	nitrite	1.421	1744	11068	1	-1.31
5	3.04	bromide	0.126	24	117	1	-2.25
6	3.41	nitrate	3.779	3773	29933	1	-4.66
7	4.35		0.000	47	519	1	
8	6.51	sulfate	13.426	9630	146105	1	-1.61
Totals			24.499	32713	268311		

File: 97010441.d05 Sample: S96T005298.SAMPLE



Data Reprocessed On 01/13/1997 09:33:50

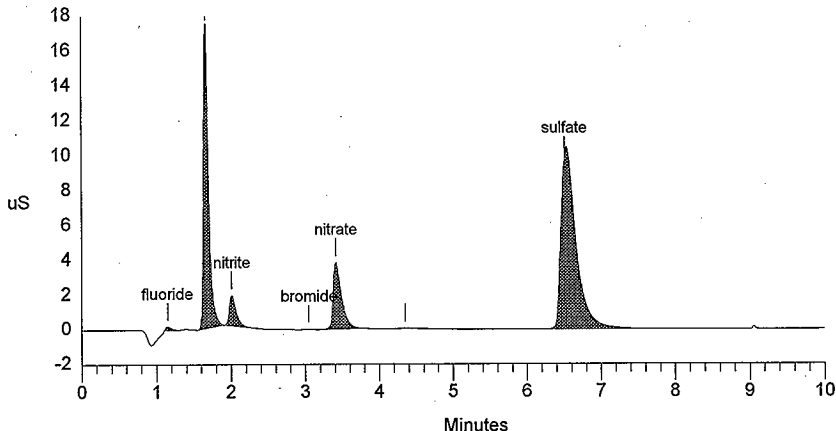
Sample Name: S96T005298 DUP Date: 01/04/1997 23:10:38
 Data File : F:\DATA\97010441.d06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.15	fluoride	0.116	195	973	1	6.17
2	1.66	chloride	5.739	17317	80946	1	-0.40
3	2.01	nitrite	1.414	1761	11011	1	-1.31
4	3.05	bromide	0.127	24	124	1	-2.04
5	3.41	nitrate	3.822	3821	30281	1	-4.66
6	4.35		0.000	61	1134	1	
7	6.51	sulfate	13.398	9652	145786	1	-1.61
Totals			24.616	32833	270255		

File: 97010441.d06 Sample: S96T005298 DUP



LABCORE Completed Worklist Report for Worklist# 14178

Analyst: krq

Instrument: IC02

Book# 36N20-C

Method: LA533IDS Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	0IC-QC F	QC	1	<1.20e-2		ug/mL
1 CCB	0	0	0IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	0	0IC-QC NO2	QC	1	<1.08e-1		ug/mL
1 CCB	0	0	0IC-QC BR	QC	1	<1.25e-1		ug/mL
1 CCB	0	0	0IC-QC NO3	QC	1	<1.39e-1		ug/mL
1 CCB	0	0	0IC-QC P04	QC	1	<1.20e-1		ug/mL
1 CCB	0	0	0IC-QC S04	QC	1	<1.38e-1		ug/mL
1 CCB	0	0	0IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	0	0IC-QC F	QC	5.90e01	6.29e+01	106.610 % Recovery	
2 CCV	0	0	0IC-QC CL	QC	7.90e01	8.23e+01	104.177 % Recovery	
2 CCV	0	0	0IC-QC NO2	QC	5.41e02	5.63e+02	104.067 % Recovery	
2 CCV	0	0	0IC-QC BR	QC	5.89e02	6.12e+02	103.905 % Recovery	
2 CCV	0	0	0IC-QC NO3	QC	5.94e02	6.06e+02	102.020 % Recovery	
2 CCV	0	0	0IC-QC P04	QC	5.44e02	5.53e+02	101.654 % Recovery	
2 CCV	0	0	0IC-QC S04	QC	6.31e02	6.56e+02	103.962 % Recovery	
2 CCV	0	0	0IC-QC OXALATE2	QC	5.25e02	5.63e+02	107.238 % Recovery	
3 SAMPLE	S96T005314	0	0IC-01 F-02	LIQUID	N/A	1.491e+02	61.310	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 CL-02	LIQUID	N/A	4.725e+03	87.570	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 NO2-02	LIQUID	N/A	6.791e+04	556.300	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 BR-02	LIQUID	N/A	< 6.439e+02	643.900	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 NO3-02	LIQUID	N/A	2.547e+05	716.000	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 P04-02	LIQUID	N/A	< 6.181e+02	618.100	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 S04-02	LIQUID	N/A	1.278e+03	710.800	ug/mL
3 SAMPLE	S96T005314	0	0IC-01 OXALATE2	LIQUID	N/A	< 5.409e+02	540.900	ug/mL
4 DUP	S96T005314	0	0IC-01 F-02	LIQUID	3.49e+02	2.57e+02	30.363 RPD	
4 DUP	S96T005314	0	0IC-01 CL-02	LIQUID	4.72e+03	3.49e+03	29.963 RPD	
4 DUP	S96T005314	0	0IC-01 NO2-02	LIQUID	6.79e+04	2.88e+04	80.869 RPD	
4 DUP	S96T005314	0	0IC-01 BR-02	LIQUID	<6.44e2	<6.44e2	RPD	
4 DUP	S96T005314	0	0IC-01 NO3-02	LIQUID	2.55e+05	2.55e+05	0.000 RPD	
4 DUP	S96T005314	0	0IC-01 P04-02	LIQUID	<6.18e2	9.24e+02	RPD	
4 DUP	S96T005314	0	0IC-01 S04-02	LIQUID	1.28e+03	1.52e+03	17.143 RPD	
4 DUP	S96T005314	0	0IC-01 OXALATE2	LIQUID	<5.41e2	<5.41e2	RPD	
5 SPK	S96T005314	0	0IC-01 F-02	LIQUID	5.90e01	5.13e+01	86.949 % Recovery	
5 SPK	S96T005314	0	0IC-01 CL-02	LIQUID	7.90e01	3.73e+00	4.722 % Recovery	
5 SPK	S96T005314	0	0IC-01 NO2-02	LIQUID	5.41e02	3.32e+02	61.368 % Recovery	
5 SPK	S96T005314	0	0IC-01 BR-02	LIQUID	5.89e02	4.56e+02	77.419 % Recovery	
5 SPK	S96T005314	0	0IC-01 NO3-02	LIQUID	5.94e02	-5.02e3	-845.118 % Recovery	
5 SPK	S96T005314	0	0IC-01 P04-02	LIQUID	5.44e02	4.17e+02	76.654 % Recovery	
5 SPK	S96T005314	0	0IC-01 S04-02	LIQUID	6.31e02	4.81e+02	76.228 % Recovery	
5 SPK	S96T005314	0	0IC-01 OXALATE2	LIQUID	5.25e02	4.06e+02	77.333 % Recovery	
6 SAMPLE	S96T005319	0	0IC-01 F-02	LIQUID	N/A	2.377e+01	13.310	ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14178

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S96T005319	0		@IC-01 CL-02	LIQUID	N/A	8.379e+01	18.890	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 NO2-02	LIQUID	N/A	8.858e+02	120.000	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 BR-02	LIQUID	N/A	2.932e+04	138.900	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 NO3-02	LIQUID	N/A	2.759e+03	154.400	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 PO4-02	LIQUID	N/A	1.333e+02	133.300	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 SO4-02	LIQUID	N/A	1.533e+02	153.300	ug/mL
6 SAMPLE	S96T005319	0		@IC-01 OXALATE	LIQUID	N/A	1.167e+02	116.700	ug/mL
7 DUP	S96T005319	0		@IC-01 F-02	LIQUID	2.38e+01	2.37e+01	0.421	RPD
7 DUP	S96T005319	0		@IC-01 CL-02	LIQUID	8.38e+01	8.38e+01	0.000	RPD
7 DUP	S96T005319	0		@IC-01 NO2-02	LIQUID	8.86e+02	8.77e+02	1.021	RPD
7 DUP	S96T005319	0		@IC-01 BR-02	LIQUID	2.93e+04	2.95e+04	0.680	RPD
7 DUP	S96T005319	0		@IC-01 NO3-02	LIQUID	2.76e+03	2.77e+03	0.362	RPD
7 DUP	S96T005319	0		@IC-01 PO4-02	LIQUID	<1.33e2	<1.33e2		RPD
7 DUP	S96T005319	0		@IC-01 SO4-02	LIQUID	<1.53e2	<1.53e2		RPD
7 DUP	S96T005319	0		@IC-01 OXALATE	LIQUID	<1.17e2	<1.17e2		RPD

Comments Section:

Comments for sample# S96T005314 and test @IC-01 .
Spike failures may be due to high level of NO3 in sample. hl
a 1/13/97

Final page for worklist# 14178

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

H Anast
Reviewer Signature

1-13-97
Date

Validated 1-13-97

LABCORE Data Entry Template for Worklist# 14178

Analyst: HBK Instrument: IC0 1002 Book# 361280-C

Method: LA-533-105 Rev/Mod _____

Worklist Comment: BY-111 IC, RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T005314 0		@IC-01	LIQUID	96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
4 DUP	S96T005314 0		@IC-01	LIQUID		
5 SPK	S96T005314 0		@IC-01	LIQUID		
6 SAMPLE	S96T005319 0		@IC-01	LIQUID	96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
7 DUP	S96T005319 0		@IC-01	LIQUID		

Final page for worklist # 14178

Analyst Signature

Date

Analyst Signature

Date

14178JA.CSV uploaded 1-10-97 Hea
in shell Hea 1-10-97

Corrected file 14178JAZ.CSV uploaded 1-13-97 Hea

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Jan-97			
Worklist#: 14178				Data File: 14178JA2.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name		Dilution	
-	=>	1	CCB	S96T005314 S96T005314 S96T005314 S96T005319 S96T005319	-	1	97010501.d04	CCB	1.00		
	=>	2	CCV			2	97010491.d03	CCV 36N20-C	101.00		
	=>	3	SAMPLE				97010511.d07	S96T005314 SAMPL	2121.00		
	=>	4	DUP				97010521.d06	S96T005314 SAMPL	10201.00		
	=>	5	SPK		3	97010531.d06	S96T005314 SAMPL	5151.00			
	=>	6	SAMPLE		4	97010531.d07	S96T005314 DUP	5151.00			
	=>	7	DUP		5	97010541.d08	S96T005314 SPIKE	5151.00			
					6	97010521.d09	S96T005319 SAMPL	1111.00			
					7	97010511.d10	S96T005319 DUP	1111.00			
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 01/13/1997 09:01:33

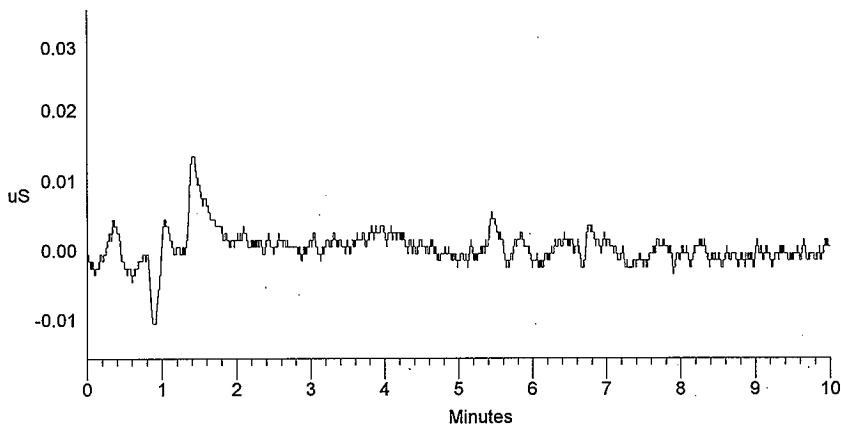
Sample Name: CCB Date: 01/05/1997 02:46:55
 Data File : E:\DATA\97010501.d04
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
Totals			0.000	0	0		

File: 97010501.d04 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 428 TO 434.

Data Reprocessed On 01/13/1997 09:01:35

```

=====
Sample Name: CCV 36N20-C                      Date: 01/04/1997 20:04:02
Data File  : E:\DATA\97010491.d03
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst    :                               Column:
Detector: CDM-1
=====
  
```

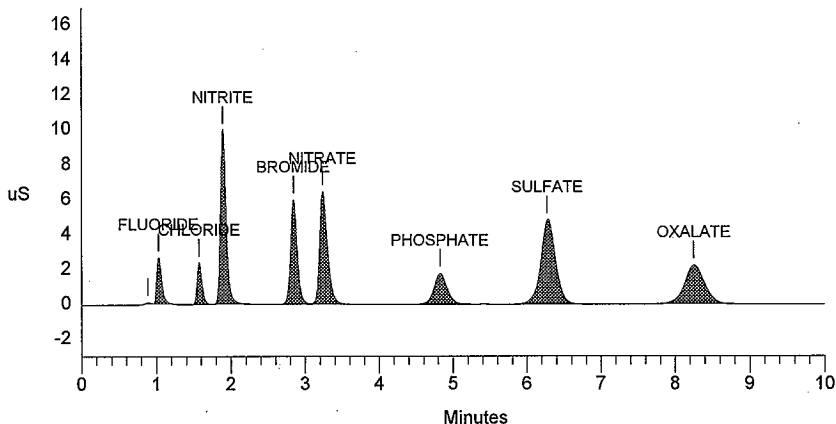
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	60	236	2	
2	1.03	FLUORIDE	62.943	2616	12175	2	-1.90
3	1.57	CHLORIDE	82.292	2356	10801	1	-0.63
4	1.89	NITRITE	563.375	9937	52705	1	-1.56
5	2.84	BROMIDE	611.523	5974	37388	2	-2.63
6	3.24	NITRATE	606.458	6447	47991	2	-3.96
7	4.82	PHOSPHATE	553.429	1761	21522	1	-3.92
8	6.28	SULFATE	655.674	4812	66864	1	-4.90
9	8.25	OXALATE	563.142	2224	41532	1	-4.84
Totals			3698.835	36187	291213		

File: 97010491.d03 Sample: CCV 36N20-C



Data Reprocessed On 01/13/1997 09:01:39

=====

Sample Name: S96T005314 SAMPLE	Date: 01/05/1997 04:51:44
Data File : E:\DATA\97010531.d06	
Method : C:\DX\METHOD\ANIONSA.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector: CDM-1
Analyst :	Column:

=====

=====

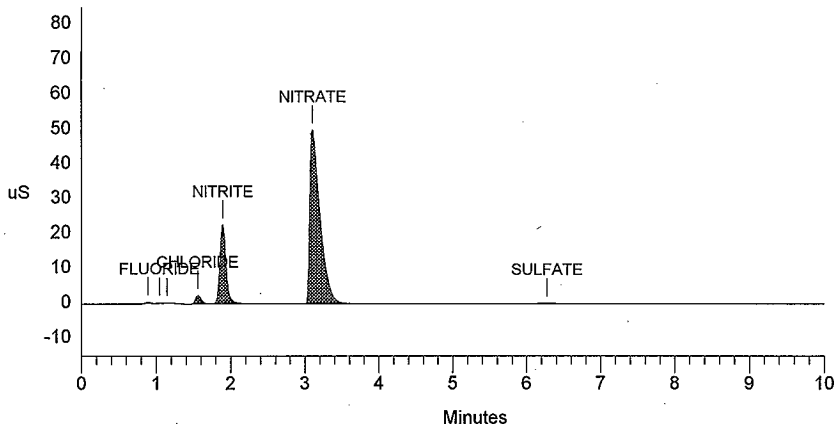
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	5151	3000	5Hz	0.00	10.00		50

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	435	2323	1	
2	1.04	FLUORIDE	349.092	273	1093	2	-0.63
3	1.14		0.000	136	422	2	
4	1.56	CHLORIDE	4725.442	2303	12192	1	-1.48
5	1.89	NITRITE	67910.004	22506	127779	1	-1.56
6	3.10	NITRATE	254672.630	49858	475882	1	0.11
7	6.28	SULFATE	1277.939	131	1802	1	-4.90
Totals			328935.108	75641	621493		

File: 97010531.d06 Sample: S96T005314 SAMPLE



Data Reprocessed On 01/13/1997 09:01:40

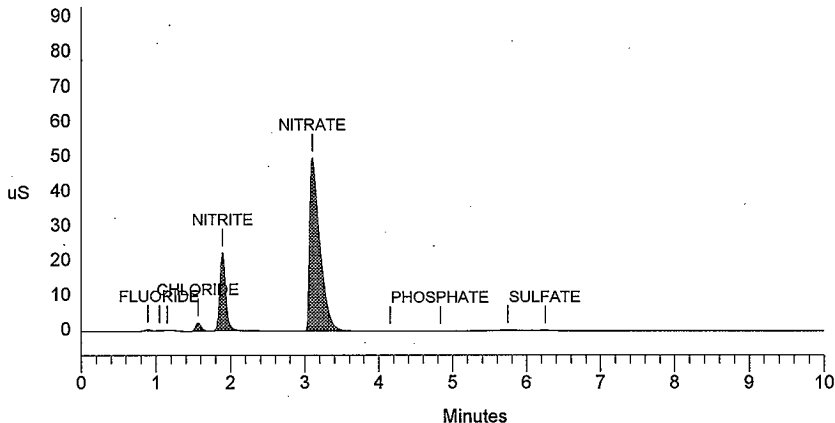
Sample Name: S96T005314 DUP Date: 01/05/1997 05:05:05
Data File : E:\DATA\97010531.d07
Method : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	5151	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	427	2269	1	
2	1.04	FLUORIDE	257.264	279	1118	2	0.32
3	1.15		0.000	141	474	2	
4	1.56	CHLORIDE	3485.439	2358	12387	2	0.21
5	1.89	NITRITE	28816.372	22434	124530	2	0.00
6	3.10	NITRATE	254572.123	49835	475647	1	0.11
7	4.16		0.000	12	80	1	
8	4.83	PHOSPHATE	924.349	20	164	1	0.00
9	5.74		0.000	296	10142	2	
10	6.25	SULFATE	1524.263	186	2875	2	0.00
Totals			289579.810	75988	629686		

File: 97010531.d07 Sample: S96T005314 DUP



LAH HNF

Data Reprocessed On 01/13/1997 09:01:41

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=====
Sample Name: S96T005314 SPIKE                      Date: 01/05/1997 05:40:03
Data File  : E:\DATA\97010541.d08
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst    :                               Detector: CDM-1
Column:
=====
  
```

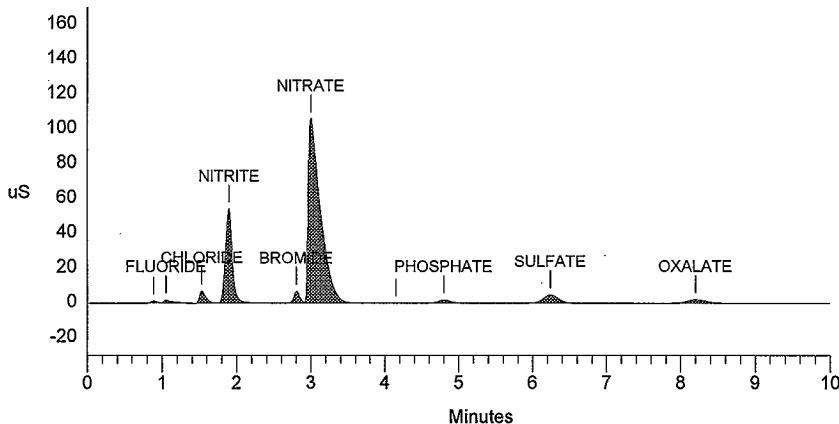
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          5151   3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	988	5512	2	
2	1.05	FLUORIDE	2937.761	1794	17585	2	0.00
3	1.53	CHLORIDE	4913.929	6990	39540	2	0.00
4	1.90	NITRITE	84693.377	53980	348590	2	-0.18
5	2.80	BROMIDE	23053.115	6806	37142	2	0.12
6	3.00	NITRATE	1375.337	105481	1223731	2	-0.11
7	4.15		0.000	38	326	1	
8	4.80	PHOSPHATE	21074.478	1724	21463	1	-0.07
9	6.24	SULFATE	25561.073	4843	68940	1	-0.05
10	8.20	OXALATE	20506.554	2138	40562	1	-0.04
Totals			184115.623	184782	1803391		

File: 97010541.d08 Sample: S96T005314 SPIKE



Data Reprocessed On 01/13/1997 09:01:42

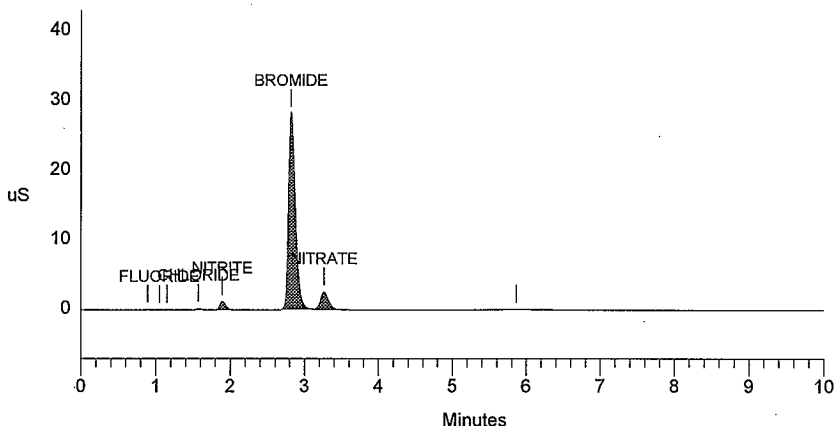
Sample Name: S96T005319 SAMPLE Date: 01/05/1997 03:50:07
 Data File : E:\DATA\97010521.d09
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1111	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	57	295	2	
2	1.05	FLUORIDE	23.772	38	177	2	0.00
3	1.15		0.000	60	323	2	
4	1.57	CHLORIDE	83.792	203	920	1	-0.63
5	1.89	NITRITE	885.778	1233	6595	1	-1.56
6	2.82	BROMIDE	29319.316	28105	181185	2	-3.54
7	3.26	NITRATE	2758.904	2543	18993	2	-3.17
8	5.86		0.000	80	2232	1	
Totals			33071.562	32318	210720		

File: 97010521.d09 Sample: S96T005319 SAMPLE



Data Reprocessed On 01/13/1997 09:01:44

```

=====
Sample Name: S96T005319 DUP                               Date: 01/05/1997 04:02:45
Data File  : E:\DATA\97010511.d10
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 10                      Detector: CDM-1
Analyst    :                                           Column:
=====
    
```

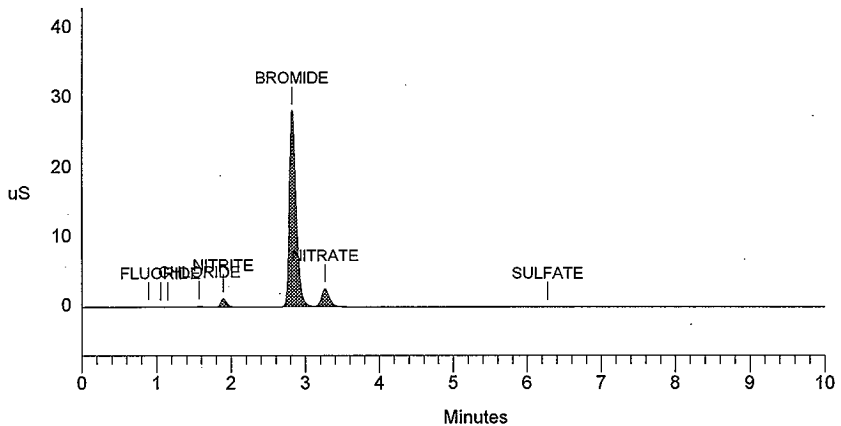
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         1111    3000  5Hz   0.00 10.00         50
    
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	51	265	2	
2	1.05	FLUORIDE	23.683	36	175	2	0.00
3	1.15		0.000	59	302	2	
4	1.57	CHLORIDE	83.775	201	920	1	-0.63
5	1.89	NITRITE	877.471	1228	6524	1	-1.56
6	2.82	BROMIDE	29527.603	28108	182656	2	-3.54
7	3.26	NITRATE	2766.892	2543	19051	2	-3.17
8	6.28	SULFATE	107.410	23	256	1	-4.90
Totals			33386.833	32248	210150		

File: 97010511.d10 Sample: S96T005319 DUP



LABCORE Completed Worklist Report for Worklist# 14179

Analyst: smf

Instrument: IC01

Book# 36N20C

Method: LA533105 Rev/Mod D-1

Worklist Comment: BY-111 IC, RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit	
1	CCB	0	ETC-QC	F	QC	1	<1.20e-2	ug/mL	
1	CCB	0	ETC-QC	CL	QC	1	<1.70e-2	ug/mL	
1	CCB	0	ETC-QC	NO2	QC	1	<1.08e-1	ug/mL	
1	CCB	0	ETC-QC	BR	QC	1	<1.25e-1	ug/mL	
1	CCB	0	ETC-QC	NO3	QC	1	<1.39e-1	ug/mL	
1	CCB	0	ETC-QC	P04	QC	1	<1.20e-1	ug/mL	
1	CCB	0	ETC-QC	S04	QC	1	<1.38e-1	ug/mL	
1	CCB	0	ETC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL	
2	CCV	0	ETC-QC	F	QC	5.90e01	6.49e+01	110.000 % Recovery	
2	CCV	0	ETC-QC	CL	QC	7.90e01	7.40e+01	93.671 % Recovery	
2	CCV	0	ETC-QC	NO2	QC	5.41e02	5.04e+02	93.161 % Recovery	
2	CCV	0	ETC-QC	BR	QC	5.89e02	5.76e+02	97.793 % Recovery	
2	CCV	0	ETC-QC	NO3	QC	5.94e02	5.67e+02	95.455 % Recovery	
2	CCV	0	ETC-QC	P04	QC	5.44e02	5.02e+02	92.279 % Recovery	
2	CCV	0	ETC-QC	S04	QC	6.31e02	6.23e+02	98.732 % Recovery	
2	CCV	0	ETC-QC	OXALATE2	QC	5.25e02	5.38e+02	102.476 % Recovery	
3	SAMPLE	S96T005346	0	ETC-01	F-02	LIQUID	N/A	3.406e+02	49.690 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	CL-02	LIQUID	N/A	4.058e+03	70.400 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	NO2-02	LIQUID	N/A	5.658e+04	447.200 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	BR-02	LIQUID	N/A	< 5.176e+02	517.600 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	NO3-02	LIQUID	N/A	1.811e+05	575.600 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	P04-02	LIQUID	N/A	5.806e+02	496.900 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	S04-02	LIQUID	N/A	< 5.715e+02	571.500 ug/mL
3	SAMPLE	S96T005346	0	ETC-01	OXALATE2	LIQUID	N/A	2.991e+03	434.800 ug/mL
4	DUP	S96T005346	0	ETC-01	F-02	LIQUID	3.41e+02	3.31e+02	2.976 RPD
4	DUP	S96T005346	0	ETC-01	CL-02	LIQUID	4.06e+03	4.13e+03	1.709 RPD
4	DUP	S96T005346	0	ETC-01	NO2-02	LIQUID	5.66e+04	5.74e+04	1.404 RPD
4	DUP	S96T005346	0	ETC-01	BR-02	LIQUID	<5.18e2	<5.18e2	RPD
4	DUP	S96T005346	0	ETC-01	NO3-02	LIQUID	1.81e+05	1.87e+05	3.261 RPD
4	DUP	S96T005346	0	ETC-01	P04-02	LIQUID	5.81e+02	8.25e+02	34.708 RPD
4	DUP	S96T005346	0	ETC-01	S04-02	LIQUID	<5.72e2	<5.71e2	RPD
4	DUP	S96T005346	0	ETC-01	OXALATE2	LIQUID	2.99e+03	<4.35e2	RPD
5	SPK	S96T005346	0	ETC-01	F-02	LIQUID	5.90e01	7.02e+01	118.983 % Recovery
5	SPK	S96T005346	0	ETC-01	CL-02	LIQUID	7.90e01	8.20e+01	103.797 % Recovery
5	SPK	S96T005346	0	ETC-01	NO2-02	LIQUID	5.41e02	5.45e+02	100.733 % Recovery
5	SPK	S96T005346	0	ETC-01	BR-02	LIQUID	5.89e02	5.25e+02	89.134 % Recovery
5	SPK	S96T005346	0	ETC-01	NO3-02	LIQUID	5.94e02	5.90e+02	99.327 % Recovery
5	SPK	S96T005346	0	ETC-01	P04-02	LIQUID	5.44e02	5.04e+02	92.642 % Recovery
5	SPK	S96T005346	0	ETC-01	S04-02	LIQUID	6.31e02	6.46e+02	102.377 % Recovery
5	SPK	S96T005346	0	ETC-01	OXALATE2	LIQUID	5.25e02	6.45e+02	122.857 % Recovery
6	SAMPLE	S96T005357	0	ETC-01	F-02	LIQUID	N/A	2.968e+02	49.690 ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14179

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S96T005357	0	@IC-01	CL-02	LIQUID	N/A	6.213e+03	70.400 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	NO2-02	LIQUID	N/A	5.873e+04	447.200 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	BR-02	LIQUID	N/A	5.176e+02	517.600 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	NO3-02	LIQUID	N/A	1.646e+05	575.600 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	PO4-02	LIQUID	N/A	6.822e+02	496.300 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	SO4-02	LIQUID	N/A	7.435e+02	571.500 ug/mL
6 SAMPLE	S96T005357	0	@IC-01	OXALATE2	LIQUID	N/A	4.348e+02	434.800 ug/mL
7 DUP	S96T005357	0	@IC-01	P-02	LIQUID	2.97e+02	2.97e+02	0.000 RPD
7 DUP	S96T005357	0	@IC-01	CL-02	LIQUID	6.21e+03	6.27e+03	0.962 RPD
7 DUP	S96T005357	0	@IC-01	NO2-02	LIQUID	5.87e+04	5.82e+04	0.855 RPD
7 DUP	S96T005357	0	@IC-01	BR-02	LIQUID	<5.18e2	<5.18e2	RPD
7 DUP	S96T005357	0	@IC-01	NO3-02	LIQUID	1.65e+05	1.61e+05	2.454 RPD
7 DUP	S96T005357	0	@IC-01	PO4-02	LIQUID	6.82e+02	6.79e+02	0.441 RPD
7 DUP	S96T005357	0	@IC-01	SO4-02	LIQUID	7.44e+02	<5.71e2	RPD
7 DUP	S96T005357	0	@IC-01	OXALATE2	LIQUID	<4.35e2	<4.35e2	RPD

Comments Section:

Comments for sample# S96T005346 and test @IC-01 .

Appears to be matrix interferences with the determination of
Oxalate. hla 1/24/97

Final page for worklist# 14179

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

JL Anastro
Reviewer Signature

1-24-97
Date

Validated 1-24-97 Heg

LABCORE Data Entry Template for Worklist# 14179

Analyst: SMF Instrument: IC0 IC01 Book# 36N20-C

Method: LA-533-105 Rev/Mod _____

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T005346 0	@IC-01	LIQUID		96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
4 DUP	S96T005346 0	@IC-01	LIQUID			
5 SPK	S96T005346 0	@IC-01	LIQUID			
6 SAMPLE	S96T005357 0	@IC-01	LIQUID		96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
7 DUP	S96T005357 0	@IC-01	LIQUID			

Final page for worklist # 14179

Lusie M. Juckton ^{SMF} 1-6-97
Analyst Signature Date

Analyst Signature Date

14179JA.CSV uploaded 1-24-97 Hea
Validated 1-24-97 Hea

NITRATE

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				24-Jan-97	
Worklist#: 14179				Data File: 14179JA.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	97010651.d01	CCB ELUENT BLANK		1.00
	=>	2	CCV		2	97010651.d02	CCV STD 36N20-C		101.00
	=>	3	SAMPLE			97010651.d03	S96T005346		10201.00
	=>	4	DUP			97010651.d04	S96T005357		10201.00
	=>	5	SPK		3	97010651.d05	S96T005346		4141.00
	=>	6	SAMPLE		6	97010651.d06	S96T005357		4141.00
	=>	7	DUP		4	97010651.d07	S96T005346 DUP		4141.00
					5	97010651.d08	S96T005346 SPK		4141.00
					7	97010651.d09	S96T005357		4141.00
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 01/24/1997 12:46:44

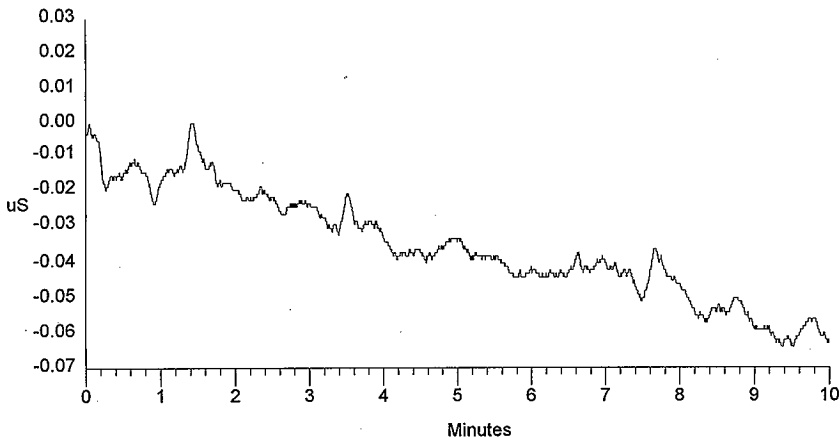
Sample Name: CCB ELUENT BLANK Date: 01/06/1997 18:43:19
 Data File : F:\DATA\97010651.d01
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. %Delta Code
Totals			0.000	0	0	

File: 97010651.d01 Sample: CCB ELUENT BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 439 TO 445.

Data Reprocessed On 01/24/1997 12:46:45

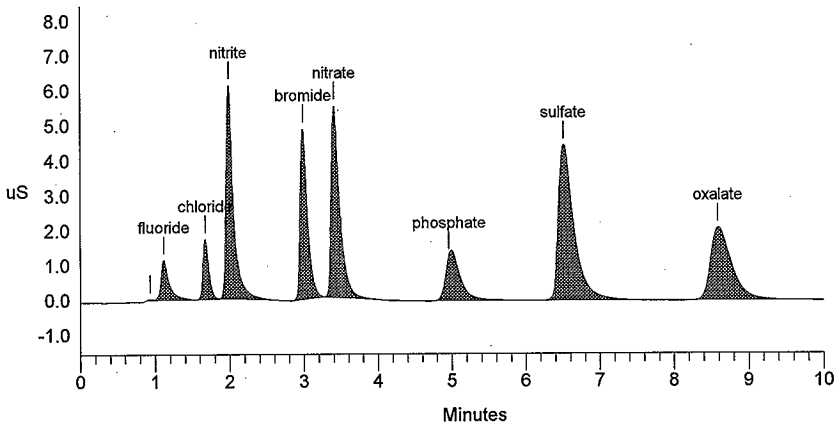
Sample Name: CCV STD 36N20-C Date: 01/06/1997 19:07:28
 Data File : F:\DATA\97010651.d02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	19	67	2	
2	1.11	fluoride	64.875	1128	8647	2	3.09
3	1.67	chloride	74.030	1727	9300	1	0.40
4	1.99	nitrite	504.060	6114	42216	1	-2.30
5	2.99	bromide	575.797	4889	33627	1	-3.97
6	3.41	nitrate	567.418	5477	44671	1	-4.84
7	4.96	phosphate	502.309	1302	19994	1	0.00
8	6.51	sulfate	623.288	4447	66142	1	-1.61
9	8.59	oxalate	538.474	2091	41189	1	-1.23
Totals			3450.250	27194	265854		

File: 97010651.d02 Sample: CCV STD 36N20-C



Data Reprocessed On 01/24/1997 12:46:49

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=====
Sample Name: S96T005346                      Date: 01/06/1997 20:10:48
Data File  : F:\DATA\97010651.d05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

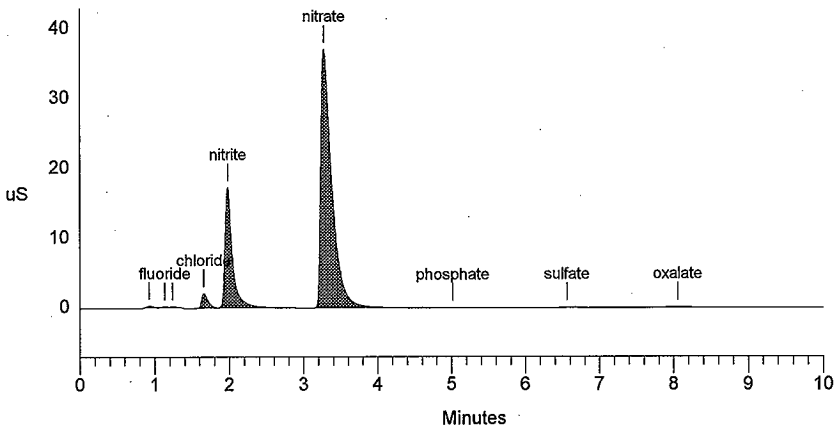
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          4141    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	253	1581	1	
2	1.13	fluoride	340.574	103	490	2	4.94
3	1.23		0.000	67	269	2	
4	1.65	chloride	4058.246	2122	12506	1	-0.80
5	1.98	nitrite	56575.157	17202	119998	1	-2.62
6	3.27	nitrate	181102.395	37054	386940	1	0.10
7	5.01	phosphate	580.639	22	216	1	1.08
8	6.56	sulfate	557.137	117	2306	1	-0.81
9	8.05	oxalate	2991.404	132	5130	1	-7.36
Totals			246205.552	57072	529435		

File: 97010651.d05 Sample: S96T005346



Data Reprocessed On 01/24/1997 12:46:51

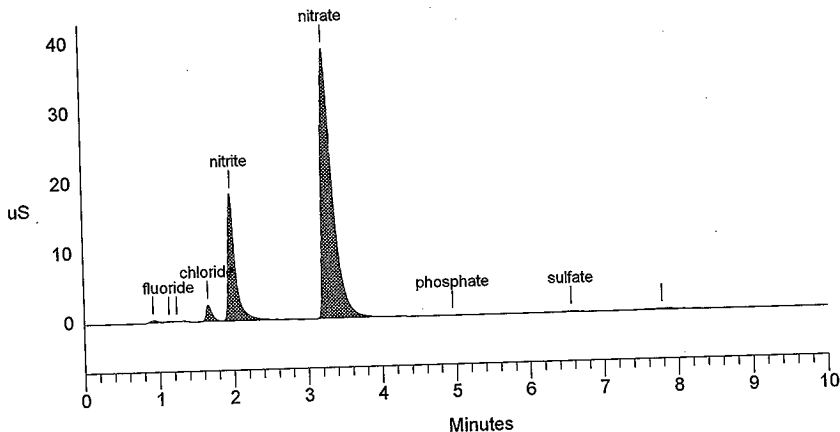
Sample Name: S96T005346 DUP Date: 01/06/1997 23:44:37
 Data File : F:\DATA\97010651.d07
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4141	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	293	1903	1	
2	1.13	fluoride	330.599	103	455	2	4.94
3	1.23		0.000	69	283	2	
4	1.65	chloride	4127.259	2351	12724	1	-0.80
5	1.98	nitrite	57431.703	18110	121892	1	-2.62
6	3.26	nitrate	187363.489	38659	402383	1	0.00
7	4.96	phosphate	825.016	22	454	1	0.00
8	6.56	sulfate	524.846	141	2225	1	-0.81
9	7.79		0.000	175	7227	1	
Totals			250602.912	59924	549545		

File: 97010651.d07 Sample: S96T005346 DUP



Data Reprocessed On 01/24/1997 12:46:52

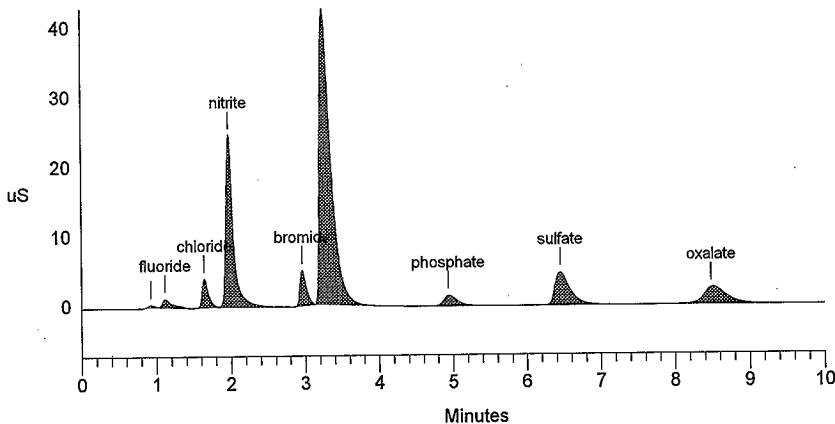
Sample Name: S96T005346 SPK Date: 01/06/1997 23:55:19
 Data File : F:\DATA\97010651.d08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4141	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	273	1653	2	
2	1.11	fluoride	3171.307	1172	10489	2	3.09
3	1.64	chloride	7363.790	4052	23064	1	-1.60
4	1.97	nitrite	78556.754	24556	169221	1	-2.95
5	2.96	bromide	21162.983	5061	30022	1	0.00
6	3.25	nitrate	204898.593	42478	446649	1	-0.10
7	4.93	phosphate	20897.213	1491	20298	1	-0.54
8	6.45	sulfate	26064.583	4705	67468	1	-2.42
9	8.48	oxalate	28999.621	2424	54415	1	-2.45
Totals			391114.844	86211	823279		

File: 97010651.d08 Sample: S96T005346 SPK



Data Reprocessed On 01/24/1997 12:46:50

```

=====
Sample Name: S96T005357                      Date: 01/06/1997 23:33:07
Data File  : F:\DATA\97010651.d06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

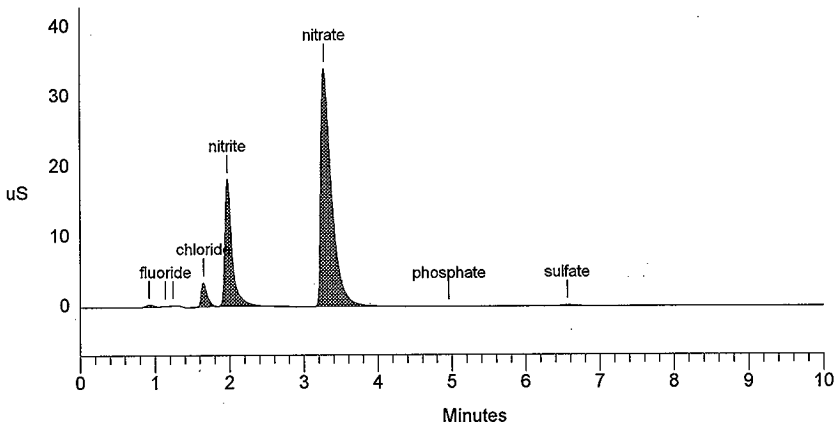
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          4141    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	297	1985	1	
2	1.14	fluoride	296.807	79	339	2	5.56
3	1.24		0.000	84	364	2	
4	1.65	chloride	6212.576	3458	19352	1	-1.20
5	1.97	nitrite	58731.441	18157	124770	1	-2.95
6	3.27	nitrate	164572.891	34092	347019	1	0.10
7	4.96	phosphate	682.242	25	315	1	0.00
8	6.56	sulfate	743.519	176	2773	1	-0.81
Totals			231239.476	56368	496916		

File: 97010651.d06 Sample: S96T005357



Data Reprocessed On 01/24/1997 12:46:53

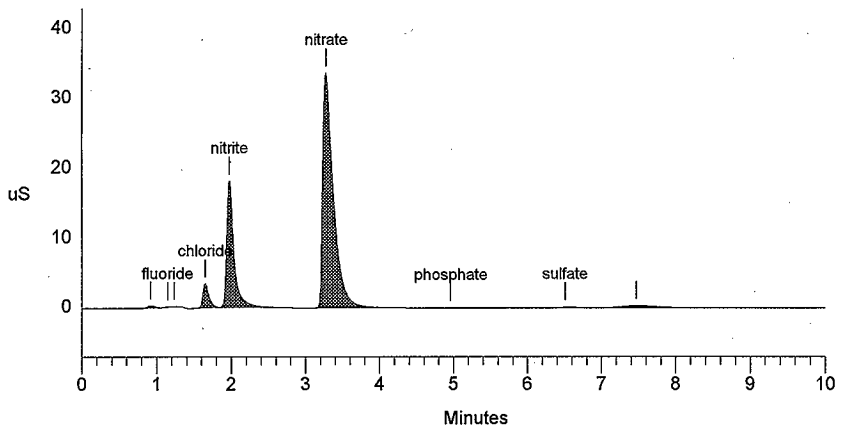
Sample Name: S96T005357 Date: 01/07/1997 00:07:04
 Data File : F:\DATA\97010651.d09
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4141	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	284	1856	1	
2	1.15	fluoride	297.237	73	340	2	6.17
3	1.23		0.000	80	304	2	
4	1.65	chloride	6272.133	3497	19543	1	-1.20
5	1.97	nitrite	58227.478	18071	123653	1	-2.95
6	3.27	nitrate	161348.770	33661	339369	1	0.10
7	4.96	phosphate	679.469	24	312	1	0.00
8	6.51	sulfate	564.552	142	2324	1	-1.61
9	7.47		0.000	311	11860	1	
Totals			227389.638	56142	499562		

File: 97010651.d09 Sample: S96T005357



LABCORE Completed Worklist Report for Worklist# 14657

Analyst: krq

Instrument: IC01

Book# 36N20C

Method: LA533105 Rev/Mod D-1

Worklist Comment: @IC-01 FOR BY-111

RTS!

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit	
1 CCB	0	0	01C-QC	F	QC	1	<1.20e-2	ug/mL	
1 CCB	0	0	01C-QC	CL	QC	1	<1.70e-2	ug/mL	
1 CCB	0	0	01C-QC	NO2	QC	1	<1.08e-1	ug/mL	
1 CCB	0	0	01C-QC	BR	QC	1	<1.25e-1	ug/mL	
1 CCB	0	0	01C-QC	NO3	QC	1	<1.39e-1	ug/mL	
1 CCB	0	0	01C-QC	P04	QC	1	<1.20e-1	ug/mL	
1 CCB	0	0	01C-QC	S04	QC	1	<1.38e-1	ug/mL	
1 CCB	0	0	01C-QC	OXALATE2	QC	1	<1.05e-1	ug/mL	
2 CCV	0	0	01C-QC	F	QC	5.90e01	6.32e+01	110.508 % Recovery	
2 CCV	0	0	01C-QC	CL	QC	7.90e01	7.86e+01	99.494 % Recovery	
2 CCV	0	0	01C-QC	NO2	QC	5.41e02	5.28e+02	97.597 % Recovery	
2 CCV	0	0	01C-QC	BR	QC	5.89e02	5.88e+02	99.830 % Recovery	
2 CCV	0	0	01C-QC	NO3	QC	5.94e02	6.06e+02	102.020 % Recovery	
2 CCV	0	0	01C-QC	P04	QC	5.44e02	5.19e+02	95.404 % Recovery	
2 CCV	0	0	01C-QC	S04	QC	6.31e02	6.38e+02	101.109 % Recovery	
2 CCV	0	0	01C-QC	OXALATE2	QC	5.25e02	5.56e+02	105.905 % Recovery	
3 BLNK-PREP	0	0	01C-01	F-02	SOLID	1	<1.20e-2	ug/g	
3 BLNK-PREP	0	0	01C-01	CL-02	SOLID	1	3.90e-02	0.039 ug/g	
3 BLNK-PREP	0	0	01C-01	NO2-02	SOLID	1	<1.08e-1	ug/g	
3 BLNK-PREP	0	0	01C-01	BR-02	SOLID	1	<1.25e-1	ug/g	
3 BLNK-PREP	0	0	01C-01	NO3-02	SOLID	1	<1.39e-1	ug/g	
3 BLNK-PREP	0	0	01C-01	P04-02	SOLID	1	<1.20e-1	ug/g	
3 BLNK-PREP	0	0	01C-01	S04-02	SOLID	1	<1.38e-1	ug/g	
3 BLNK-PREP	0	0	01C-01	OXALATE2	SOLID	1	<1.05e-1	ug/g	
4 SAMPLE	S96T005151	0	W	01C-01	F-02	SOLID	N/A	1.478e+04	95.610 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	CL-02	SOLID	N/A	1.661e+02	135.500 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	NO2-02	SOLID	N/A	2.631e+03	860.600 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	BR-02	SOLID	N/A	9.959e+02	995.900 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	NO3-02	SOLID	N/A	2.642e+05	1107.000 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	P04-02	SOLID	N/A	8.401e+03	956.100 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	S04-02	SOLID	N/A	5.894e+04	1100.000 ug/g
4 SAMPLE	S96T005151	0	W	01C-01	OXALATE2	SOLID	N/A	3.382e+04	836.400 ug/g
5 DUP	S96T005151	0	W	01C-01	F-02	SOLID	1.48e+04	1.72e+04	15.000 RPD
5 DUP	S96T005151	0	W	01C-01	CL-02	SOLID	1.66e+02	2.78e+02	50.450 RPD
5 DUP	S96T005151	0	W	01C-01	NO2-02	SOLID	2.63e+03	2.95e+03	11.470 RPD
5 DUP	S96T005151	0	W	01C-01	BR-02	SOLID	<9.96e2	<1.02e3	RPD
5 DUP	S96T005151	0	W	01C-01	NO3-02	SOLID	2.64e+05	1.81e+05	37.303 RPD
5 DUP	S96T005151	0	W	01C-01	P04-02	SOLID	8.40e+03	7.55e+03	10.658 RPD
5 DUP	S96T005151	0	W	01C-01	S04-02	SOLID	5.89e+04	6.93e+04	16.225 RPD
5 DUP	S96T005151	0	W	01C-01	OXALATE2	SOLID	3.38e+04	3.97e+04	16.054 RPD
6 SPK	S96T005151	0	W	01C-01	F-02	SOLID	5.90e01	5.85e+01	99.153 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14657

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005151	0 W	01C-01	CL-02	SOLID	7.90e01	7.43e+01	94.051 % Recovery
6 SPK	S96T005151	0 W	01C-01	NO2-02	SOLID	5.41e02	5.01e+02	92.606 % Recovery
6 SPK	S96T005151	0 W	01C-01	BR-02	SOLID	5.89e02	5.46e+02	92.699 % Recovery
6 SPK	S96T005151	0 W	01C-01	NO3-02	SOLID	5.94e02	5.57e+02	93.771 % Recovery
6 SPK	S96T005151	0 W	01C-01	PO4-02	SOLID	5.44e02	5.06e+02	93.015 % Recovery
6 SPK	S96T005151	0 W	01C-01	SO4-02	SOLID	6.31e02	6.52e+02	103.328 % Recovery
6 SPK	S96T005151	0 W	01C-01	OXALATE2	SOLID	5.25e02	5.42e+02	103.238 % Recovery
7 SAMPLE	S96T005162	0 W	01C-01	F-02	SOLID	N/A	1.303e+04	90.810 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	CL-02	SOLID	N/A	4.723e+02	128.700 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	NO2-02	SOLID	N/A	7.715e+03	817.100 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	BR-02	SOLID	N/A	9.459e+02	945.900 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	NO3-02	SOLID	N/A	3.578e+05	1052.000 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	PO4-02	SOLID	N/A	1.317e+04	908.100 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	SO4-02	SOLID	N/A	4.697e+04	1044.000 ug/g
7 SAMPLE	S96T005162	0 W	01C-01	OXALATE2	SOLID	N/A	2.404e+04	794.600 ug/g
8 DUP	S96T005162	0 W	01C-01	F-02	SOLID	1.30e+04	1.51e+04	14.947 RPD
8 DUP	S96T005162	0 W	01C-01	CL-02	SOLID	4.72e+02	5.25e+02	10.632 RPD
8 DUP	S96T005162	0 W	01C-01	NO2-02	SOLID	7.72e+03	8.59e+03	10.668 RPD
8 DUP	S96T005162	0 W	01C-01	BR-02	SOLID	<5.46e2	<5.64e2	RPD
8 DUP	S96T005162	0 W	01C-01	NO3-02	SOLID	3.58e+05	3.06e+05	15.663 RPD
8 DUP	S96T005162	0 W	01C-01	PO4-02	SOLID	1.32e+04	1.35e+04	2.247 RPD
8 DUP	S96T005162	0 W	01C-01	SO4-02	SOLID	4.70e+04	5.66e+04	18.533 RPD
8 DUP	S96T005162	0 W	01C-01	OXALATE2	SOLID	2.40e+04	2.83e+04	16.444 RPD
9 SAMPLE	S96T005307	0 W	01C-01	F-02	SOLID	N/A	1.378e+04	91.140 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	CL-02	SOLID	N/A	9.402e+02	129.100 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	NO2-02	SOLID	N/A	1.404e+04	820.000 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	BR-02	SOLID	N/A	9.492e+02	949.100 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	NO3-02	SOLID	N/A	2.809e+05	1056.000 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	PO4-02	SOLID	N/A	9.598e+03	911.400 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	SO4-02	SOLID	N/A	5.263e+04	1048.000 ug/g
9 SAMPLE	S96T005307	0 W	01C-01	OXALATE2	SOLID	N/A	3.023e+04	797.400 ug/g
10 DUP	S96T005307	0 W	01C-01	F-02	SOLID	1.38e+04	1.52e+04	9.655 RPD
10 DUP	S96T005307	0 W	01C-01	CL-02	SOLID	9.40e+02	9.53e+02	1.973 RPD
10 DUP	S96T005307	0 W	01C-01	NO2-02	SOLID	1.40e+04	1.46e+04	4.196 RPD
10 DUP	S96T005307	0 W	01C-01	BR-02	SOLID	<9.49e2	<9.39e2	RPD
10 DUP	S96T005307	0 W	01C-01	NO3-02	SOLID	2.81e+05	2.86e+05	1.764 RPD
10 DUP	S96T005307	0 W	01C-01	PO4-02	SOLID	9.60e+03	8.45e+03	12.625 RPD
10 DUP	S96T005307	0 W	01C-01	SO4-02	SOLID	5.26e+04	5.79e+04	9.593 RPD
10 DUP	S96T005307	0 W	01C-01	OXALATE2	SOLID	3.02e+04	3.34e+04	10.053 RPD

Final page for worklist# 14657

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

Validated 1-24-97

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 14657

Analyst: SRD Instrument: IC0 IC01 Book# 36N20-C

Method: LA-533-105 Rev/Mod _____

Worklist Comment: @IC-01 FOR BY-111 RTS!

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005151 0 W	@IC-01	SOLID		96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S96T005151 0 W	@IC-01	SOLID			
6 SPK	S96T005151 0 W	@IC-01	SOLID			
7 SAMPLE	S96T005162 0 W	@IC-01	SOLID		96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S96T005162 0 W	@IC-01	SOLID			
9 SAMPLE	S96T005307 0 W	@IC-01	SOLID		96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
10 DUP	S96T005307 0 W	@IC-01	SOLID			

Final page for worklist # 14657

Analyst Signature

Date

Analyst Signature

Date

14657A. CSV uploaded 1-24-97 Hla

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				24-Jan-97			
Worklist#: 14657				Data File: 14657JA.CSV							
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution				
-	=>	1	CCB	1	97010331.d01	CCB	1.00				
	=>	2	CCV	2	97010331.d03	CCV 36N20-C	101.00				
	=>	3	BLNK-PREP	3	97010331.d04	BLANK PREP 14657	1.00				
	=>	4	SAMPLE	4	97010331.d05	S96T005151 SAMPL	41.00				
	=>	5	DUP	5	97010331.d07	S96T005151 DUP	41.00				
	=>	6	SPK	6	97010331.d08	S96T005151 SPIKE	41.00				
	=>	7	SAMPLE	7	97010331.d09	S96T005162 SAMPL	41.00				
	=>	8	DUP	8	97010331.d10	S96T005162 DUP	41.00				
	=>	9	SAMPLE	9	97010331.d11	S96T005307 SAMPL	41.00				
	=>	10	DUP	10	97010331.d12	S96T005307 DUP	41.00				
+				+							

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

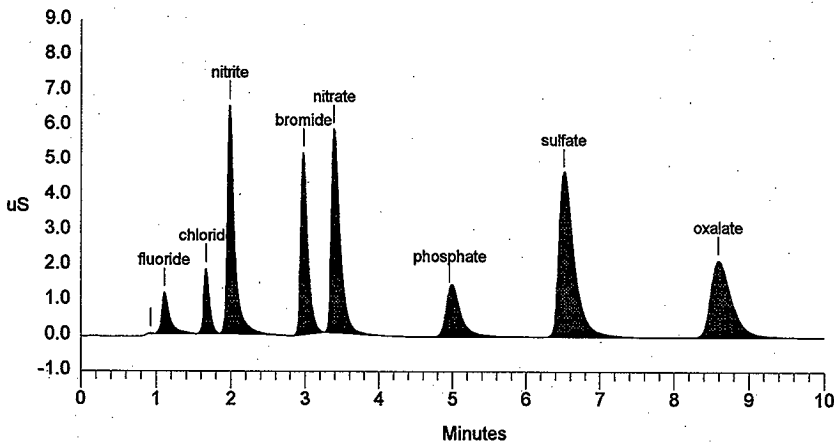
Sample Name: CCV 36N20-C Date: 01/03/1997 20:21:15
Data File : C:\DX\DATA\97010331.D03
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
Analyst: *[Signature]* Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 101 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	23	79	2	
2	1.11	fluoride	65.168	1158	8690	2	2.47
3	1.67	chloride	78.578	1843	9882	1	0.00
4	1.98	nitrite	527.628	6516	44269	1	-2.62
5	2.97	bromide	588.048	5180	34370	1	0.11
6	3.39	nitrate	605.670	5810	47722	1	-5.40
7	4.96	phosphate	519.451	1346	20700	1	0.00
8	6.51	sulfate	638.112	4681	67723	1	-1.61
9	8.59	oxalate	555.506	2196	42520	1	-1.23
Totals			3578.162	28753	275956		

File: 97010331.D03 Sample: CCV 36N20-C



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 450 TO 459

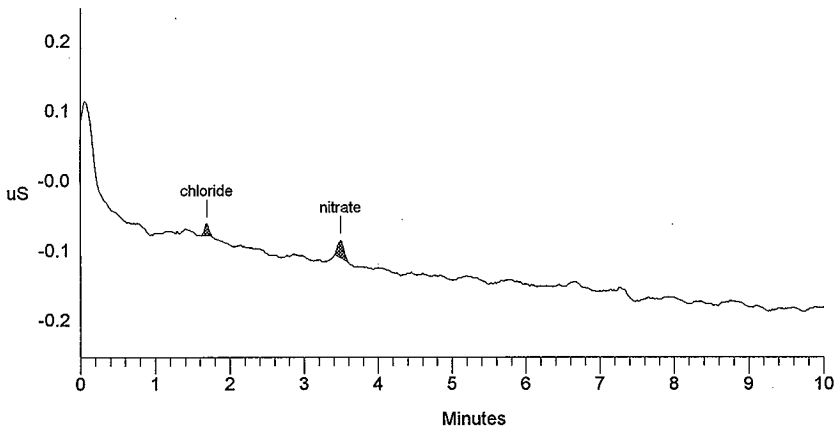
Sample Name: CCB	Date: 01/03/1997 19:34:40
Data File : F:\DATA\97010331.d01	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 1	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.69	chloride	0.010	17	71	1	1.60
2	3.49	nitrate	0.011	25	137	1	-2.42
Totals			0.020	42	208		

File: 97010331.d01 Sample: CCB



```

=====
Sample Name: BLANK PREP 14657                      Date: 01/03/1997 20:47:26
Data File  : F:\DATA\97010331.d04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4                 Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

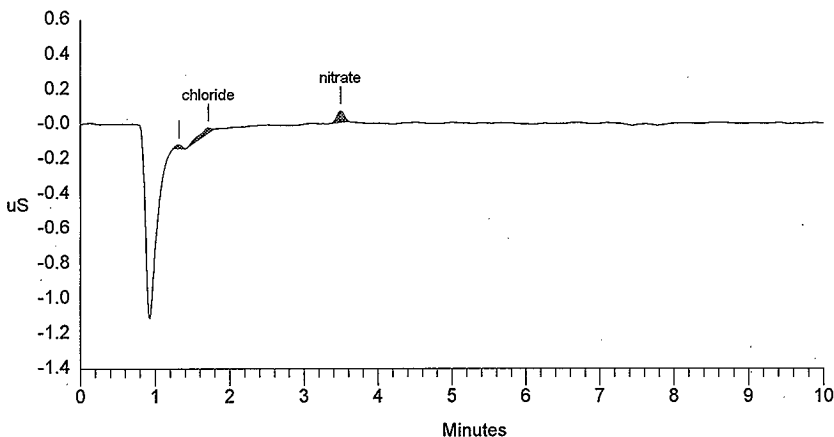
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1  3000  5Hz   0.00 10.00          50
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.32		0.000	22	136	1	
2	1.71	chloride	0.039	30	434	1	2.80
3	3.49	nitrate	0.051	67	455	1	-2.42
Totals			0.090	120	1025		

File: 97010331.d04 Sample: BLANK PREP 14657



Data Reprocessed On 01/24/1997 13:26:28

```

=====
Sample Name: S96T005151 SAMPLE                      Date: 01/03/1997 21:04:18
Data File  : F:\DATA\97010331.d05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

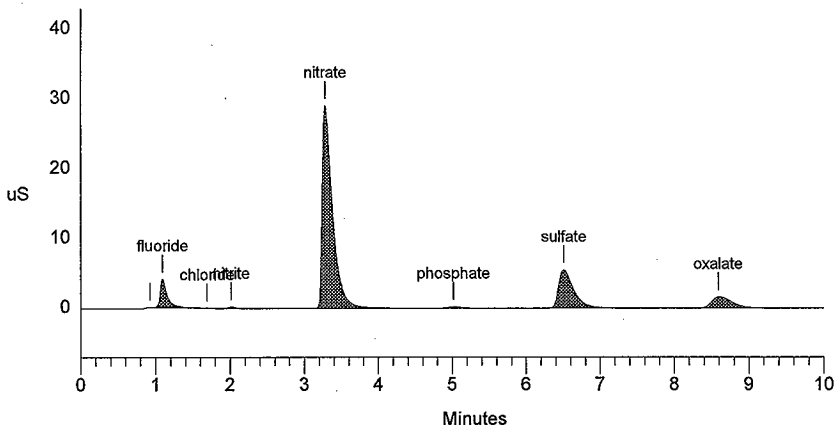
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	53	196	2	
2	1.09	fluoride	76.057	4123	27496	2	1.23
3	1.69	chloride	0.855	43	211	1	1.20
4	2.01	nitrite	13.539	242	1648	1	-0.98
5	3.28	nitrate	1359.416	29073	283618	1	0.00
6	5.01	phosphate	43.234	275	3912	1	1.08
7	6.51	sulfate	303.318	5511	79404	1	-1.61
8	8.59	oxalate	174.032	1654	32634	1	-1.23
Totals			1970.452	40974	429117		

File: 97010331.d05 Sample: S96T005151 SAMPLE



Data Reprocessed On 01/24/1997 13:26:29

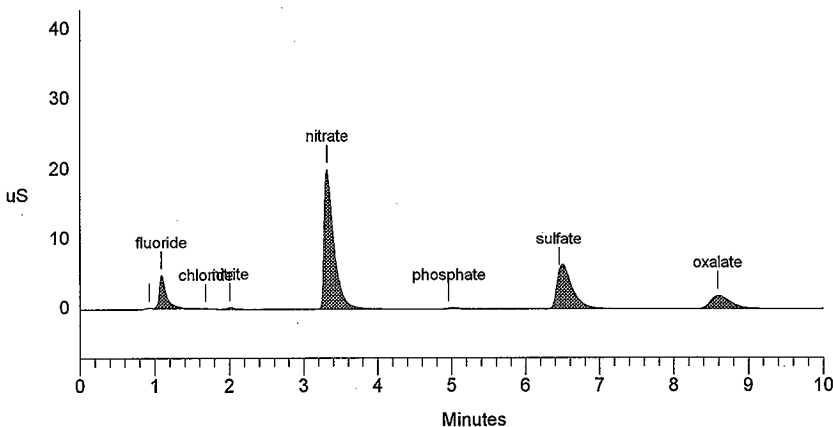
Sample Name: S96T005151 DUP Date: 01/03/1997 23:33:21
 Data File : F:\DATA\97010331.d07
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	61	236	2	
2	1.09	fluoride	86.551	4723	31716	2	0.62
3	1.68	chloride	1.400	77	378	1	0.80
4	2.01	nitrite	14.878	278	1929	1	-1.31
5	3.31	nitrate	914.088	20130	184854	1	0.10
6	4.96	phosphate	38.095	187	3404	1	0.00
7	6.45	sulfate	349.646	5392	91710	1	-2.42
8	8.59	oxalate	199.987	1923	37613	1	-1.23
Totals			1604.645	32771	351840		

File: 97010331.d07 Sample: S96T005151 DUP



Data Reprocessed On 01/24/1997 13:26:30

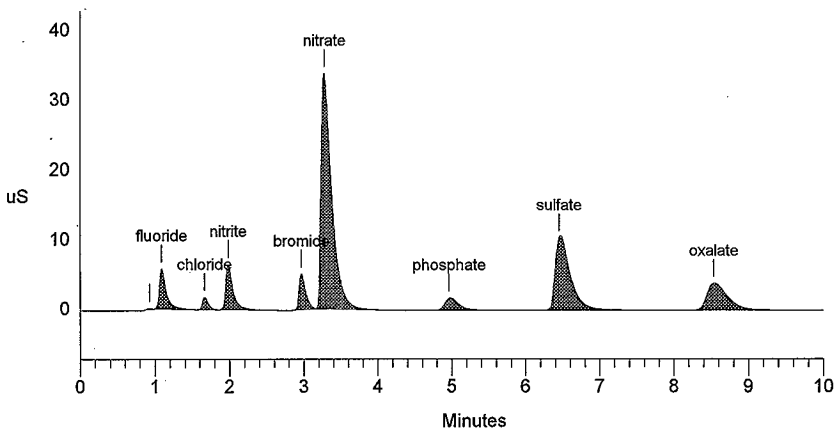
Sample Name: S96T005151 SPIKE Date: 01/03/1997 23:48:03
Data File : F:\DATA\97010331.d08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	64	209	2	
2	1.09	fluoride	99.452	5782	37039	2	0.62
3	1.66	chloride	30.569	1752	9463	1	-0.40
4	1.98	nitrite	214.000	6501	44229	1	-2.62
5	2.97	bromide	218.245	5118	31318	1	-0.11
6	3.27	nitrate	1582.391	33751	335760	1	0.10
7	4.96	phosphate	245.592	1739	24233	1	0.00
8	6.45	sulfate	564.315	10427	149923	1	-2.42
9	8.53	oxalate	390.836	3852	74583	1	-1.84
Totals			3345.401	68987	706757		

File: 97010331.d08 Sample: S96T005151 SPIKE



```

=====
Sample Name: S96T005162 SAMPLE                      Date: 01/04/1997 00:00:18
Data File  : F:\DATA\97010331.d09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9                  Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
  
```

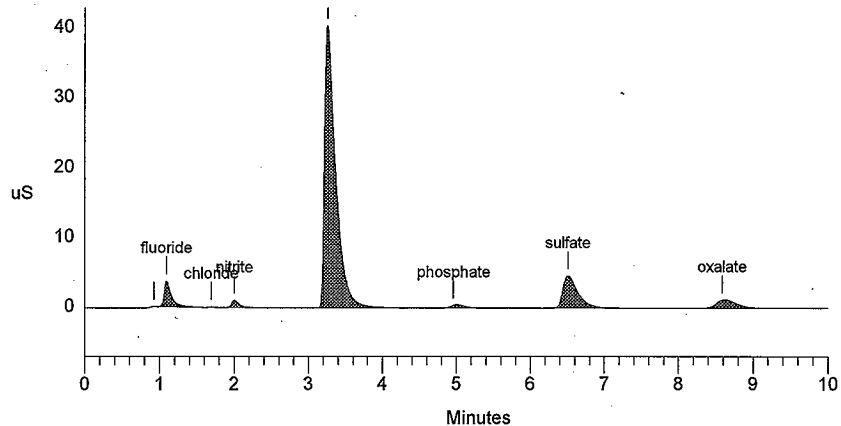
***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta

1	0.93		0.000	57	207	2	
2	1.09	fluoride	70.609	3714	25341	2	1.23
3	1.69	chloride	2.559	146	735	1	1.20
4	2.00	nitrite	41.801	1044	7597	1	-1.64
5	3.26	nitrate	1938.301	40469	423408	1	0.00
6	4.96	phosphate	71.371	410	6699	1	0.00
7	6.51	sulfate	254.473	4622	66524	1	-1.61
8	8.59	oxalate	130.273	1191	24263	1	-1.23

Totals			2509.388	51654	554776		

File: 97010331.d09 Sample: S96T005162 SAMPLE



```

=====
Sample Name: S96T005162 DUP                      Date: 01/04/1997 00:17:06
Data File  : F:\DATA\97010331.d10
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10              Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

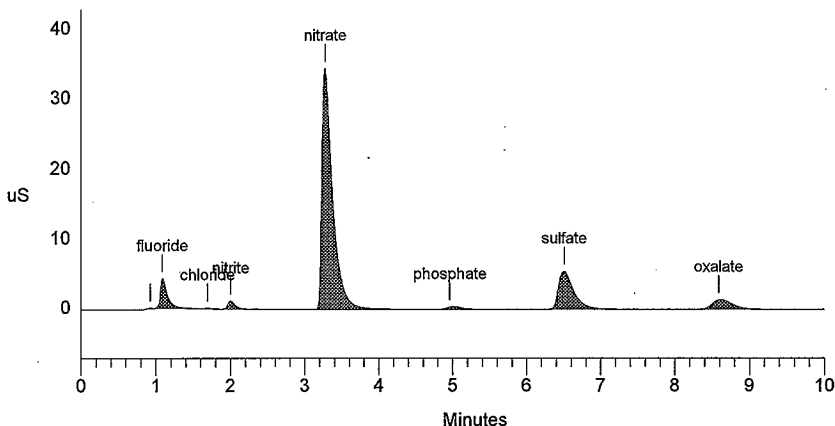
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	55	188	2	
2	1.09	fluoride	80.202	4272	29152	2	0.62
3	1.69	chloride	2.791	159	807	1	1.20
4	2.00	nitrite	45.621	1188	8402	1	-1.64
5	3.27	nitrate	1627.030	34515	346441	1	0.10
6	4.96	phosphate	71.734	381	6735	1	0.00
7	6.51	sulfate	300.627	5465	78692	1	-1.61
8	8.59	oxalate	150.290	1398	28088	1	-1.23
Totals			2278.295	47432	498505		

File: 97010331.d10 Sample: S96T005162 DUP



```

=====
Sample Name: S96T005307 SAMPLE                      Date: 01/04/1997 01:11:24
Data File  : F:\DATA\97010331.d11
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11                 Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

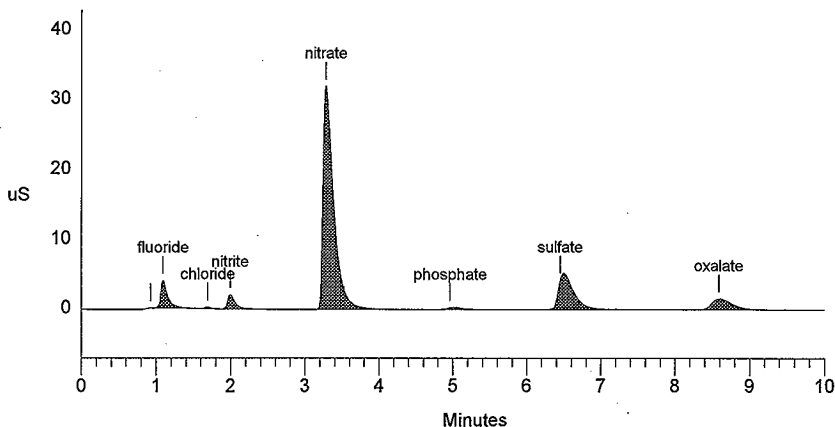
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	54	204	2	
2	1.09	fluoride	74.389	4025	26834	2	1.23
3	1.69	chloride	5.076	285	1511	1	1.20
4	1.99	nitrite	75.813	2055	14779	1	-1.97
5	3.28	nitrate	1516.444	31999	320133	1	0.00
6	4.96	phosphate	51.821	267	4761	1	0.00
7	6.45	sulfate	284.155	4225	74340	1	-2.42
8	8.59	oxalate	163.232	1579	30565	1	-1.23
Totals			2170.929	44489	473126		

File: 97010331.d11 Sample: S96T005307 SAMPLE



Data Reprocessed On 01/24/1997 13:26:33

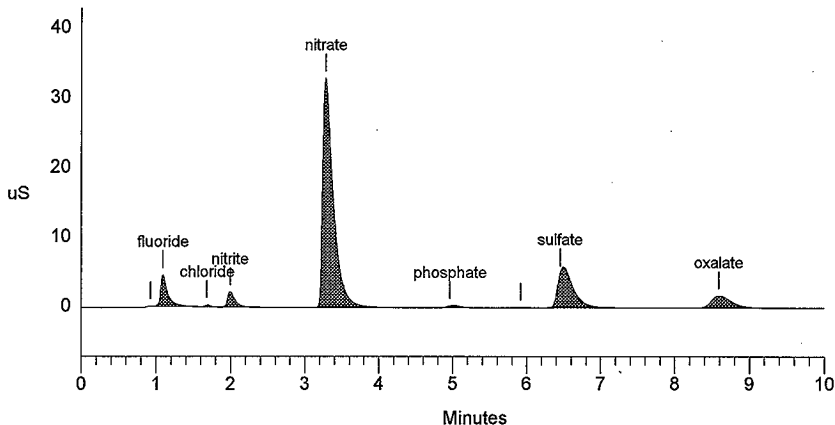
Sample Name: S96T005307.DUP Date: 01/04/1997 01:24:57
 Data File : F:\DATA\97010331.d12
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	56	193	2	
2	1.09	fluoride	82.712	4540	30161	2	1.23
3	1.68	chloride	5.201	296	1550	1	0.80
4	1.99	nitrite	79.740	2207	15610	1	-1.97
5	3.28	nitrate	1561.599	33002	330814	1	0.00
6	4.96	phosphate	46.194	278	4204	1	0.00
7	5.92		0.000	21	472	1	
8	6.45	sulfate	315.782	4982	82706	1	-2.42
9	8.59	oxalate	182.365	1750	34231	1	-1.23
Totals			2273.593	47134	499941		

File: 97010331.d12 Sample: S96T005307 DUP



LABCORE Completed Worklist Report for Worklist# 14658

Analyst: krq

Instrument: IC02

Book# 36A20C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: @IC-01 FOR BY-111

RTS!

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	@IC-QC F	QC	1	<1.20e-2		ug/mL
1 CCB	0	@IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	@IC-QC NO2	QC	1	<1.08e-1		ug/mL
1 CCB	0	@IC-QC BR	QC	1	<1.25e-1		ug/mL
1 CCB	0	@IC-QC NO3	QC	1	<1.33e-1		ug/mL
1 CCB	0	@IC-QC P04	QC	1	<1.20e-1		ug/mL
1 CCB	0	@IC-QC S04	QC	1	<1.38e-1		ug/mL
1 CCB	0	@IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	@IC-QC F	QC	5.90e01	6.09e+01	103.220 % Recovery	
2 CCV	0	@IC-QC CL	QC	7.90e01	8.32e+01	105.316 % Recovery	
2 CCV	0	@IC-QC NO2	QC	5.41e02	5.51e+02	101.848 % Recovery	
2 CCV	0	@IC-QC BR	QC	5.89e02	6.15e+02	104.414 % Recovery	
2 CCV	0	@IC-QC NO3	QC	5.54e02	5.99e+02	100.842 % Recovery	
2 CCV	0	@IC-QC P04	QC	5.44e02	5.48e+02	100.735 % Recovery	
2 CCV	0	@IC-QC S04	QC	6.31e02	6.47e+02	102.536 % Recovery	
2 CCV	0	@IC-QC OXALATE2	QC	5.25e02	5.54e+02	105.524 % Recovery	
3 BLNK-PREP	0	@IC-01 F-02	SOLID	1	<1.20e-2		ug/g
3 BLNK-PREP	0	@IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3 BLNK-PREP	0	@IC-01 NO2-02	SOLID	1	<1.08e-1		ug/g
3 BLNK-PREP	0	@IC-01 BR-02	SOLID	1	<1.25e-1		ug/g
3 BLNK-PREP	0	@IC-01 NO3-02	SOLID	1	1.59e-01	0.159	ug/g
3 BLNK-PREP	0	@IC-01 P04-02	SOLID	1	<1.20e-1		ug/g
3 BLNK-PREP	0	@IC-01 S04-02	SOLID	1	<1.38e-1		ug/g
3 BLNK-PREP	0	@IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 F-02	SOLID	N/A	1.363e+04	48.990	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 CL-02	SOLID	N/A	2.333e+02	69.410	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 NO2-02	SOLID	N/A	3.799e+03	441.000	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 BR-02	SOLID	N/A	5.104e+02	510.300	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 NO3-02	SOLID	N/A	1.443e+04	567.600	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 P04-02	SOLID	N/A	1.337e+04	489.900	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 S04-02	SOLID	N/A	5.290e+04	563.400	ug/g
4 SAMPLE	S96T005170 0 W	@IC-01 OXALATE2	SOLID	N/A	3.030e+04	428.800	ug/g
5 DUP	S96T005170 0 W	@IC-01 F-02	SOLID	1.36e+04	1.33e+04	2.220	RPD
5 DUP	S96T005170 0 W	@IC-01 CL-02	SOLID	2.33e+02	2.83e+02	19.380	RPD
5 DUP	S96T005170 0 W	@IC-01 NO2-02	SOLID	3.90e+03	3.79e+03	0.264	RPD
5 DUP	S96T005170 0 W	@IC-01 BR-02	SOLID	<5.10e2	<5.09e2		RPD
5 DUP	S96T005170 0 W	@IC-01 NO3-02	SOLID	1.44e+04	1.43e+04	0.697	RPD
5 DUP	S96T005170 0 W	@IC-01 P04-02	SOLID	1.34e+04	1.32e+04	1.504	RPD
5 DUP	S96T005170 0 W	@IC-01 S04-02	SOLID	5.29e+04	5.14e+04	2.876	RPD
5 DUP	S96T005170 0 W	@IC-01 OXALATE2	SOLID	3.03e+04	3.01e+04	0.662	RPD
6 SPK	S96T005170 0 W	@IC-01 F-02	SOLID	8.90e01	6.24e+01	105.763 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14658

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005170	0 W	QIC-01	CL-02	SOLID	7.90e01	8.00e+01	101.266 % Recovery
6 SPK	S96T005170	0 W	QIC-01	NO2-02	SOLID	5.41e02	5.56e+02	102.773 % Recovery
6 SPK	S96T005170	0 W	QIC-01	BR-02	SOLID	5.89e02	6.07e+02	103.056 % Recovery
6 SPK	S96T005170	0 W	QIC-01	NO3-02	SOLID	5.94e02	6.41e+02	107.912 % Recovery
6 SPK	S96T005170	0 W	QIC-01	FO4-02	SOLID	5.44e02	5.65e+02	103.860 % Recovery
6 SPK	S96T005170	0 W	QIC-01	SO4-02	SOLID	6.31e02	7.12e+02	112.837 % Recovery
6 SPK	S96T005170	0 W	QIC-01	OXALATE2	SOLID	5.25e02	5.81e+02	110.667 % Recovery
7 SAMPLE	S96T005171	0 W	QIC-01	F-02	SOLID	N/A	1.885e+04	46.980 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	CL-02	SOLID	N/A	5.810e+02	66.550 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	NO2-02	SOLID	N/A	4.218e+03	422.700 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	BR-02	SOLID	N/A	4.893e+02	489.300 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	NO3-02	SOLID	N/A	1.889e+04	544.100 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	FO4-02	SOLID	N/A	1.454e+04	469.800 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	SO4-02	SOLID	N/A	7.960e+04	540.100 ug/g
7 SAMPLE	S96T005171	0 W	QIC-01	OXALATE2	SOLID	N/A	4.252e+04	411.000 ug/g
8 DUP	S96T005171	0 W	QIC-01	F-02	SOLID	1.88e+04	1.88e+04	0.000 RPD
8 DUP	S96T005171	0 W	QIC-01	CL-02	SOLID	5.81e+02	3.19e+02	58.222 RPD
8 DUP	S96T005171	0 W	QIC-01	NO2-02	SOLID	4.22e+03	3.93e+03	7.117 RPD
8 DUP	S96T005171	0 W	QIC-01	BR-02	SOLID	4.89e2	4.94e2	RPD
8 DUP	S96T005171	0 W	QIC-01	NO3-02	SOLID	1.89e+04	1.69e+04	11.173 RPD
8 DUP	S96T005171	0 W	QIC-01	FO4-02	SOLID	1.45e+04	2.20e+04	41.096 RPD
8 DUP	S96T005171	0 W	QIC-01	SO4-02	SOLID	7.96e+04	7.19e+04	10.165 RPD
8 DUP	S96T005171	0 W	QIC-01	OXALATE2	SOLID	4.25e+04	3.94e+04	7.570 RPD

Final page for worklist# 14658

Analyst Signature

Date

Analyst Signature

Date

James M. Lyle 1/17/97
Reviewer Signature Date

LABCORE Data Entry Template for Worklist# 14658

Analyst: BRB Instrument: IC0 IC02 Book# 36N20-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: @IC-01 FOR BY-111 RTS!

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005170 0 W		@IC-01	SOLID	96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S96T005170 0 W		@IC-01	SOLID		
6 SPK	S96T005170 0 W		@IC-01	SOLID		
7 SAMPLE	S96T005171 0 W		@IC-01	SOLID	96001257	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S96T005171 0 W		@IC-01	SOLID		

Final page for worklist # 14658

Analyst Signature

Date

Analyst Signature

Date

14658 ja. CSV

uploaded 1/13/97 GME

Validated 1/13/97 GME

Data Entry Comments:

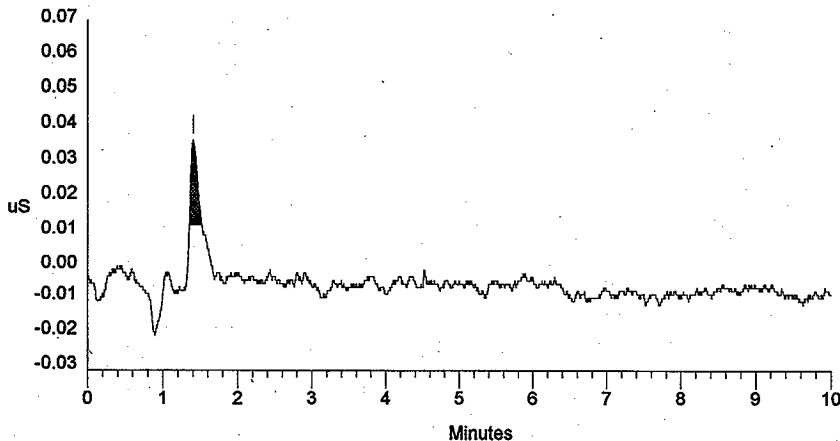
Sample Name: CCB Date: 01/04/1997 04:06:19
Data File : C:\DX\DATA\97010401.D05
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
Analyst Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.41		0.000	24	134	1	
Totals			0.000	24	134		

File: 97010401.D05 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 463 TO 470.

Sample Name: CCV 36N20-C

Date: 01/04/1997 02:11:33

Data File : C:\DX\DATA\97010391.D10

Method : C:\DX\METHOD\ANIONSA.MET

ACI Address: 1 System: 1 Inject#: 10

Detector: CDM-1

Analyst: *[Signature]* Column:

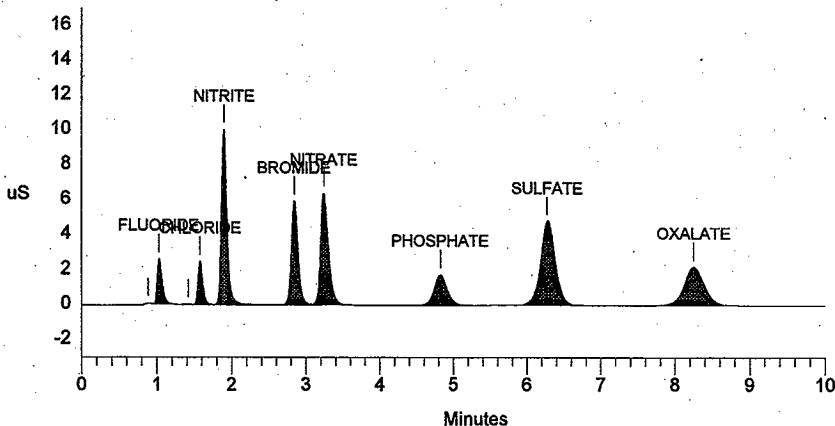
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	61	255	2	
2	1.03	FLUORIDE	60.937	2581	11775	2	-1.90
3	1.42		0.000	41	252	2	
4	1.58	CHLORIDE	83.175	2482	10919	2	-0.21
5	1.90	NITRITE	551.316	10041	51544	2	-1.22
6	2.84	BROMIDE	615.266	5941	37626	2	-2.63
7	3.24	NITRATE	598.520	6407	47337	2	-3.76
8	4.82	PHOSPHATE	547.819	1757	21295	1	-3.92
9	6.28	SULFATE	647.407	4805	65994	1	-4.90
10	8.25	OXALATE	554.082	2198	40848	1	-4.84
Totals			3658.522	36314	287845		

File: 97010391.D10 Sample: CCV 36N20-C



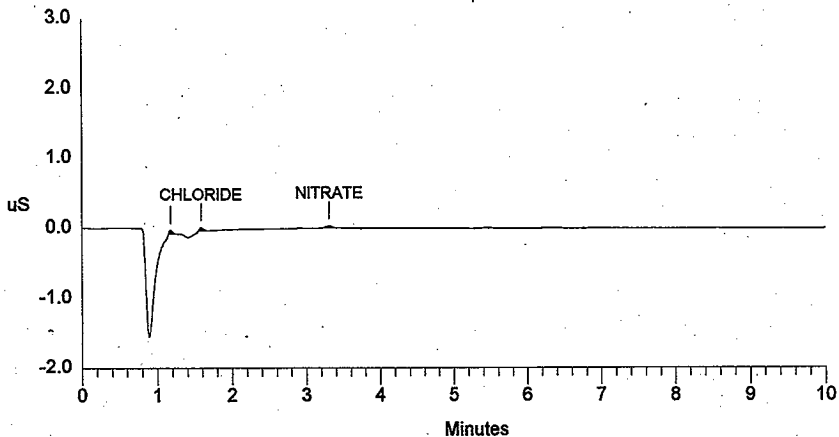
Sample Name: BLANK PREP 14658 Date: 01/04/1997 04:18:58
 Data File : C:\DX\DATA\97010401.D06
 Method : C:\DX\METHOD\ANIONSA.MET.
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst: *H. B. Bueri* Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.18		0.000	52	143	1	
2	1.58	CHLORIDE	0.016	43	139	1	0.21
3	3.31	NITRATE	0.159	31	178	1	-1.78
Totals			0.176	126	460		

File: 97010401.D06 Sample: BLANK PREP 14658



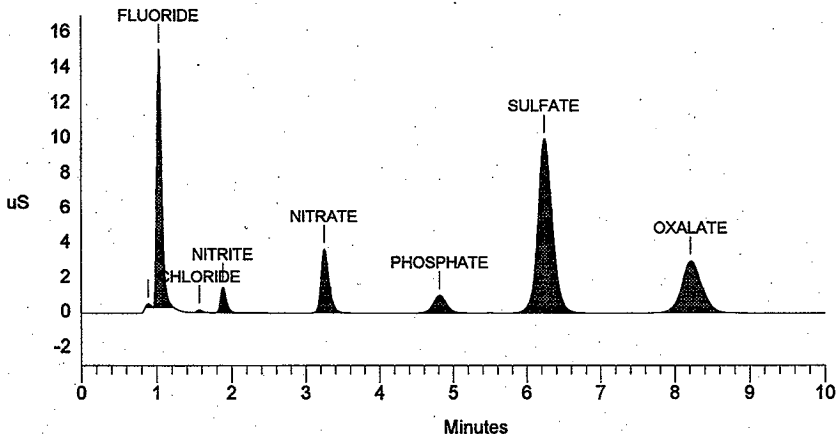
Sample Name: S96T005170 SAMPLE Date: 01/04/1997 04:31:38
 Data File : C:\DX\DATA\97010401.D07
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 7
 Analyst Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 21 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	211	849	2	
2	1.03	FLUORIDE	70.077	14780	69679	2	-1.90
3	1.57	CHLORIDE	1.200	150	679	1	-0.63
4	1.88	NITRITE	19.536	1454	7867	1	-1.91
5	3.25	NITRATE	74.219	3648	27585	1	-3.56
6	4.82	PHOSPHATE	68.747	1013	12563	1	-4.05
7	6.24	SULFATE	272.073	9982	137160	1	-5.51
8	8.21	OXALATE	155.828	2995	55665	1	-5.31
Totals			661.681	34233	312047		

File: 97010401.D07 Sample: S96T005170 SAMPLE



Sample Name: S96T005170 DUP		Date: 01/04/1997 04:44:16
Data File : C:\DX\DATA\97010401.D08		
Method : C:\DX\METHOD\ANIONSA.MET.		
ACI Address: 1	System: 1	Inject#: 8
Analyst	Column:	Detector: CDM-1

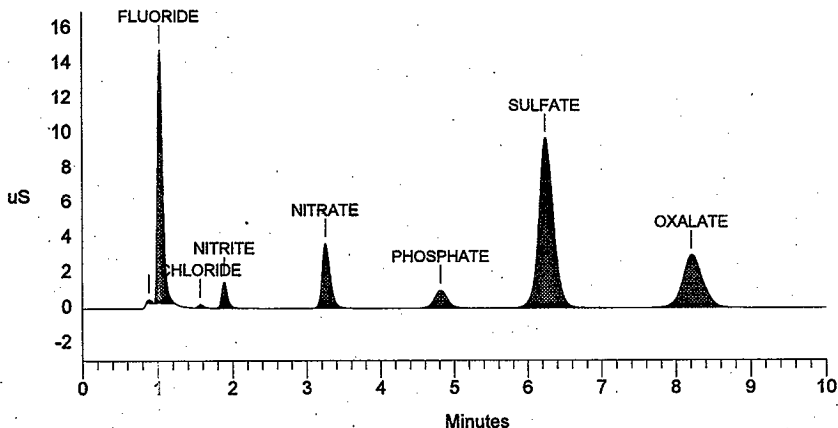
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 21 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	209	829	2	
2	1.03	FLUORIDE	68.769	14495	68289	2	-1.90
3	1.57	CHLORIDE	1.460	196	842	1	-0.63
4	1.89	NITRITE	19.560	1474	7878	1	-1.56
5	3.26	NITRATE	73.668	3660	27370	1	-3.36
6	4.82	PHOSPHATE	67.970	1000	12414	1	-4.05
7	6.24	SULFATE	265.005	9701	133419	1	-5.51
8	8.21	OXALATE	155.149	2985	55416	1	-5.31
Totals			651.581	33721	306457		

File: 97010401.D08 Sample: S96T005170 DUP



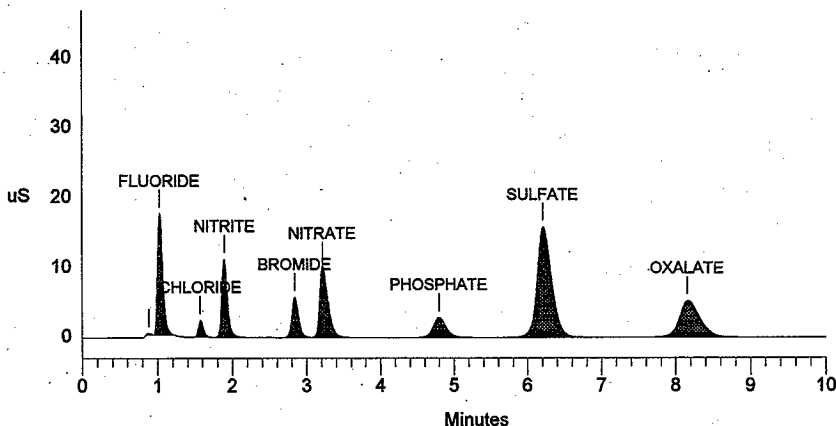
Sample Name: S96T005170 SPIKE Date: 01/04/1997 04:56:55
Data File : C:\DX\DATA\97010401.D09
Method : C:\DX\METHOD\ANIONSA.MET
ACI Address: 12 System: 1 Inject#: 9 Detector: CDM-1
Analyst *[Signature]* Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	269	1058	2	
2	1.03	FLUORIDE	82.554	17324	83132	2	-1.90
3	1.57	CHLORIDE	17.195	2346	10856	1	-0.63
4	1.90	NITRITE	130.640	11197	58969	1	-1.22
5	2.84	BROMIDE	121.312	5741	35600	2	-2.63
6	3.22	NITRATE	202.504	10152	78610	2	-4.55
7	4.80	PHOSPHATE	181.819	2850	34682	1	-4.45
8	6.21	SULFATE	414.468	15777	214586	1	-5.91
9	8.16	OXALATE	272.078	5225	98861	1	-5.92
Totals			1422.571	70882	616353		

File: 97010401.D09 Sample: S96T005170 SPIKE



=====

Sample Name: S96T005171 SAMPLE	Date: 01/04/1997 05:09:35
Data File : C:\DX\DATA\97010401.D10	
Method : C:\DX\METHOD\ANIONSA.MET.	
ACI Address: 1 System: 1 Inject#: 10	Detector: CDM-1
Analyst	Column:

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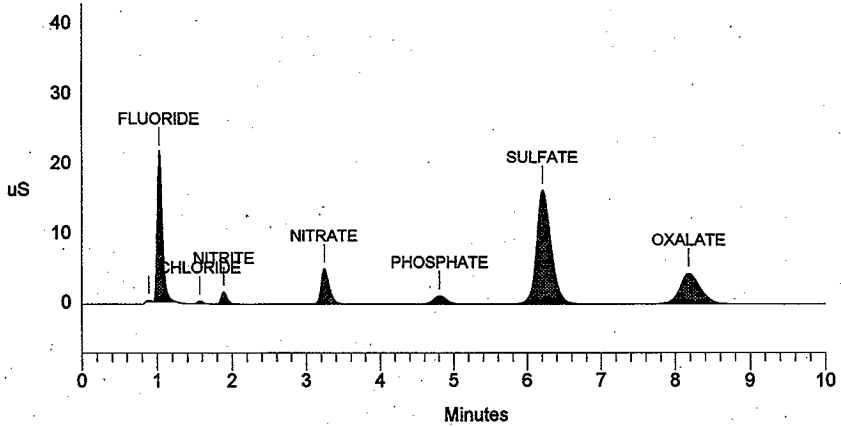
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		50

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	230	888	2	
2	1.03	FLUORIDE	101.139	21484	103854	2	-1.90
3	1.57	CHLORIDE	3.117	423	1885	1	-0.63
4	1.89	NITRITE	22.627	1748	9276	1	-1.56
5	3.24	NITRATE	101.334	5029	38214	1	-3.76
6	4.81	PHOSPHATE	78.005	1172	14343	1	-4.18
7	6.21	SULFATE	427.073	16279	221641	1	-5.91
8	8.18	OXALATE	228.095	4412	82376	1	-5.61
Totals			961.390	50778	472476		

File: 97010401.D10 Sample: S96T005171 SAMPLE



Sample Name: S96T005171 DUP Date: 01/04/1997 05:22:13
 Data File : C:\DX\DATA\97010401.D11
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 11
 Analyst Column: Detector: CDM-1

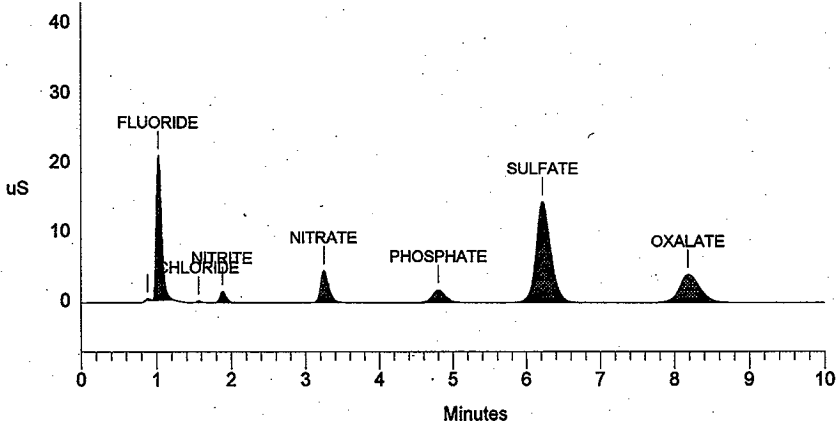
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 21 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	204	736	2	
2	1.03	FLUORIDE	99.701	20810	102219	2	-1.90
3	1.56	CHLORIDE	1.692	198	988	1	-1.05
4	1.88	NITRITE	20.890	1555	8484	1	-1.91
5	3.25	NITRATE	89.765	4552	33669	1	-3.56
6	4.80	PHOSPHATE	116.963	1787	21891	1	-4.32
7	6.22	SULFATE	381.662	14513	196383	1	-5.71
8	8.18	OXALATE	209.427	4019	75432	1	-5.61
Totals			920.100	47639	439802		

File: 97010401.D11 Sample: S96T005171 DUP



LABCORE Completed Worklist Report for Worklist# 14695

Analyst: krq

Instrument: IC02

Book# 36120C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. Reprint. Use 41 DF.jmf

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	01C-QC F	QC	1	<1.20e-2		ug/mL
1 CCB	0	01C-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	01C-QC N02	QC	1	<1.08e-1		ug/mL
1 CCB	0	01C-QC BR	QC	1	<1.25e-1		ug/mL
1 CCB	0	01C-QC N03	QC	1	<1.33e-1		ug/mL
1 CCB	0	01C-QC P04	QC	1	<1.20e-1		ug/mL
1 CCB	0	01C-QC S04	QC	1	<1.38e-1		ug/mL
1 CCB	0	01C-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	01C-QC F	QC	5.90e01	6.21e+01	105.254 % Recovery	
2 CCV	0	01C-QC CL	QC	7.90e01	8.32e+01	105.316 % Recovery	
2 CCV	0	01C-QC N02	QC	5.41e02	5.59e+02	103.327 % Recovery	
2 CCV	0	01C-QC BR	QC	5.89e02	6.03e+02	102.377 % Recovery	
2 CCV	0	01C-QC N03	QC	5.94e02	6.00e+02	101.010 % Recovery	
2 CCV	0	01C-QC P04	QC	5.44e02	5.48e+02	100.735 % Recovery	
2 CCV	0	01C-QC S04	QC	6.31e02	6.49e+02	102.853 % Recovery	
2 CCV	0	01C-QC OXALATE2	QC	5.25e02	5.55e+02	105.714 % Recovery	
3 BLNK-PREP	0	01C-01 F-02	SOLID	1	<1.20e-2		ug/g
3 BLNK-PREP	0	01C-01 CL-02	SOLID	1	<1.70e-2		ug/g
3 BLNK-PREP	0	01C-01 N02-02	SOLID	1	<1.08e-1		ug/g
3 BLNK-PREP	0	01C-01 BR-02	SOLID	1	<1.25e-1		ug/g
3 BLNK-PREP	0	01C-01 N03-02	SOLID	1	<1.33e-1		ug/g
3 BLNK-PREP	0	01C-01 P04-02	SOLID	1	<1.20e-1		ug/g
3 BLNK-PREP	0	01C-01 S04-02	SOLID	1	<1.38e-1		ug/g
3 BLNK-PREP	0	01C-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S96T005163	0 W 01C-01 F-02	SOLID	N/A	1.415e+02	94.010	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 CL-02	SOLID	N/A	4.225e+02	133.200	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 N02-02	SOLID	N/A	4.074e+03	846.200	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 BR-02	SOLID	N/A	1.569e+03	979.500	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 N03-02	SOLID	N/A	2.379e+05	1089.000	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 P04-02	SOLID	N/A	1.273e+05	940.100	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 S04-02	SOLID	N/A	3.259e+03	1081.000	ug/g
4 SAMPLE	S96T005163	0 W 01C-01 OXALATE2	SOLID	N/A	7.585e+03	922.500	ug/g
5 DUP	S96T005163	0 W 01C-01 F-02	SOLID	1.42e+04	2.01e+04	34.402	RPD
5 DUP	S96T005163	0 W 01C-01 CL-02	SOLID	4.22e+02	4.40e+02	4.176	RPD
5 DUP	S96T005163	0 W 01C-01 N02-02	SOLID	4.07e+03	3.72e+03	8.986	RPD
5 DUP	S96T005163	0 W 01C-01 BR-02	SOLID	1.57e+03	1.51e+03	3.896	RPD
5 DUP	S96T005163	0 W 01C-01 N03-02	SOLID	2.38e+05	1.41e+05	51.187	RPD
5 DUP	S96T005163	0 W 01C-01 P04-02	SOLID	1.27e+05	1.84e+05	36.656	RPD
5 DUP	S96T005163	0 W 01C-01 S04-02	SOLID	3.27e+03	1.48e+03	75.369	RPD
5 DUP	S96T005163	0 W 01C-01 OXALATE2	SOLID	7.58e+03	5.71e+03	28.141	RPD
6 SPK	S96T005163	0 W 01C-01 F-02	SOLID	5.90e01	6.51e+01	110.339 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14695

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005163 0 W	@IC-01 CL-02	SOLID	7.90e01	8.02e+01	101.519 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 NO2-02	SOLID	5.41e02	5.42e+02	100.185 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 ER-02	SOLID	5.89e02	6.00e+02	101.868 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 NO3-02	SOLID	5.94e02	6.91e+02	116.330 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 PO4-02	SOLID	5.44e02	5.97e+02	107.904 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 SO4-02	SOLID	6.31e02	6.38e+02	101.109 % Recovery	
6 SPK	S96T005163 0 W	@IC-01 OXALATE2	SOLID	5.25e02	5.56e+02	105.908 % Recovery	

Final page for worklist# 14695

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Faye
Reviewer Signature _____ Date 1/15/97

LABCORE Data Entry Template for Worklist# 14695

Analyst:

Instrument: IC0

ETC02

Book# 361020-C

Method: LA-533-105

Rev/Mod

Worklist Comment: BY-111 IC. Reprint. Use 41 DF.jmf

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005163 0 W		@IC-01	SOLID	96001257	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S96T005163 0 W		@IC-01	SOLID		
6 SPK	S96T005163 0 W		@IC-01	SOLID		

Final page for worklist # 14695

Analyst Signature

Date

Analyst Signature

Date

14695 ja CSV

In skill

uploaded 1/15/97 gm Fey

Validated 1/15/97 gm Fey

Data Entry Comments:

RPD on Dup on 5 analytes very poor. JMF

This was a rerun. A repeat should be done as

sample must be non-homogeneous. JMF

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				15-Jan-97	
Worklist#: 14695				Data File: 14695JA.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	97010391.d11	CCB		1.00
	=>	2	CCV		2	97010391.d02	CCV 36N20-C		101.00
	=>	3	BLNK-PREP		3	97010391.d06	BLANK PREP 14695		1.00
	=>	4	SAMPLE		4	97010391.d07	S96T005163 SAMPL		41.00
	=>	5	DUP		5	97010391.d08	S96T005163 DUP		41.00
	=>	6	SPK		6	97010391.d09	S96T005163 SPIKE		41.00
			S96T005163						
			S96T005163						
			S96T005163						
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

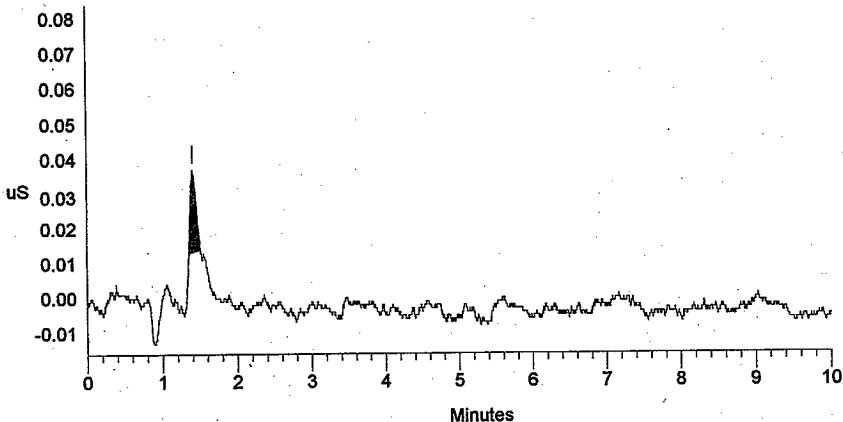
Sample Name: CCB Date: 01/04/1997 02:24:11
Data File : C:\DX\DATA\97010391.D11
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst: *[Signature]* Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.41		0.000	24	123	1	
Totals			0.000	24	123		

File: 97010391.D11 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 475 TO 480.

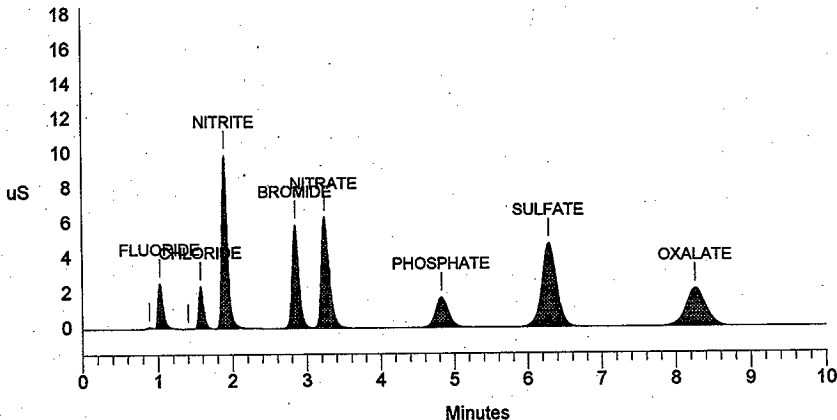
Sample Name: CCV 36N20-C Date: 01/04/1997 00:30:20
Data File : C:\DX\DATA\97010391.D02
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
Analyst *[Signature]* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 101 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	59	241	2	
2	1.04	FLUORIDE	62.133	2557	12013	2	-1.27
3	1.41		0.000	12	56	2	
4	1.58	CHLORIDE	83.150	2418	10916	2	-0.21
5	1.90	NITRITE	558.620	9922	52247	1	-1.22
6	2.85	BROMIDE	603.051	5904	36848	2	-2.40
7	3.24	NITRATE	600.150	6377	47471	2	-3.76
8	4.83	PHOSPHATE	547.787	1748	21294	1	-3.78
9	6.29	SULFATE	649.164	4809	66179	1	-4.70
10	8.26	OXALATE	555.240	2199	40936	1	-4.69
Totals			3659.296	36004	288200		

File: 97010391.D02 Sample: CCV 36N20-C



Sample Name: BLANK PREP 14695 Date: 01/04/1997 01:20:58
Data File : C:\DX\DATA\97010391.D06
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
Analyst *[Signature]* Column:

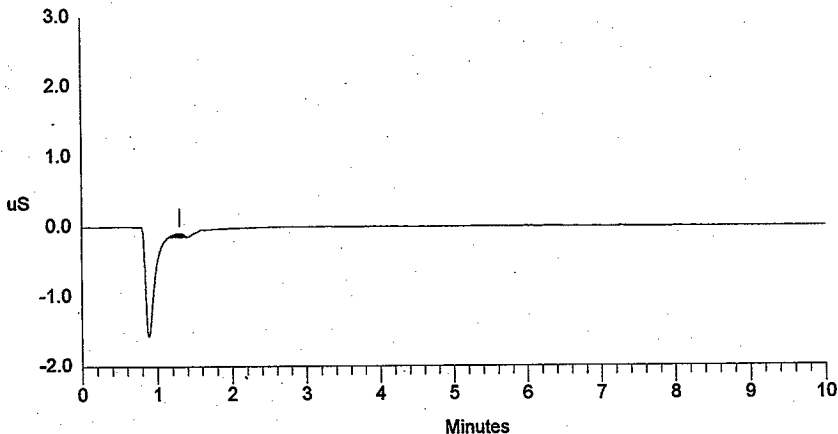
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.30		0.000	48	441	1	
Totals			0.000	48	441		

File: 97010391.D06 Sample: BLANK PREP 14695



Data Reprocessed On 01/15/1997 16:35:00

```

=====
Sample Name: S96T005163 SAMPLE                      Date: 01/04/1997 01:33:37
Data File  : E:\DATA\97010391.d07
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 7                  Detector: CDM-1
Analyst    :                               Column:
=====
  
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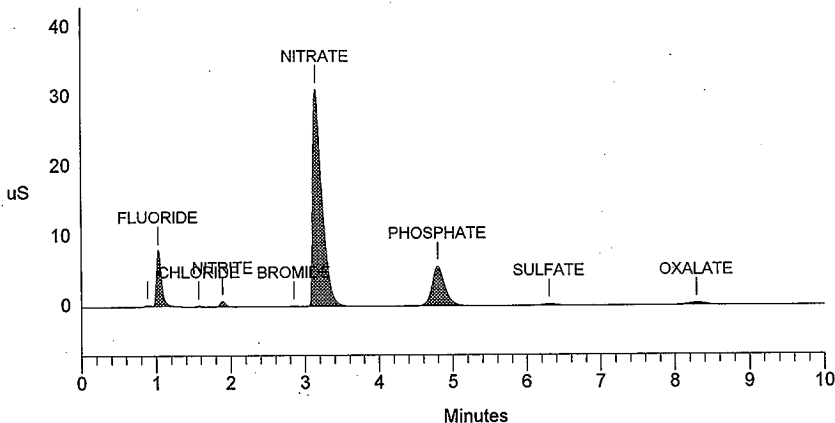
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	121	517	2	
2	1.03	FLUORIDE	74.030	7878	36500	2	-1.90
3	1.57	CHLORIDE	2.211	145	637	1	-0.63
4	1.89	NITRITE	21.321	769	3945	1	-1.56
5	2.85	BROMIDE	8.210	97	531	1	-2.40
6	3.15	NITRATE	1244.973	31125	268328	1	0.00
7	4.80	PHOSPHATE	665.920	5657	67392	1	-4.45
8	6.30	SULFATE	17.108	255	3531	1	-4.49
9	8.29	OXALATE	39.692	369	6772	1	-4.38
Totals			2073.465	46416	388152		

File: 97010391.d07 Sample: S96T005163 SAMPLE



Data Reprocessed On 01/15/1997 16:35:01

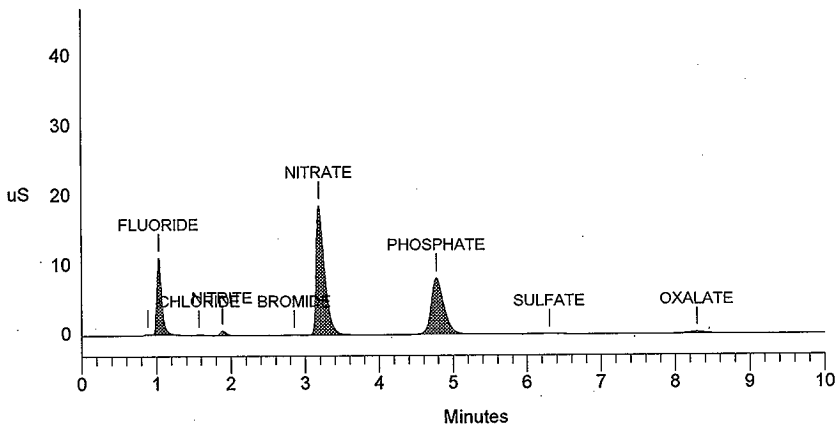
Sample Name: S96T005163 DUP Date: 01/04/1997 01:46:16
 Data File : E:\DATA\97010391.d08
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	104	405	2	
2	1.04	FLUORIDE	102.627	11070	51360	2	-1.27
3	1.57	CHLORIDE	2.241	137	646	1	-0.63
4	1.88	NITRITE	18.954	629	3394	1	-1.91
5	2.85	BROMIDE	7.684	79	452	1	-2.40
6	3.19	NITRATE	717.822	18641	147297	1	0.00
7	4.78	PHOSPHATE	936.750	8171	97618	1	-4.85
8	6.30	SULFATE	7.548	85	1149	1	-4.49
9	8.29	OXALATE	29.127	266	4850	1	-4.38
Totals			1822.753	39181	307170		

File: 97010391.d08 Sample: S96T005163 DUP



Data Reprocessed On 01/15/1997 16:35:02

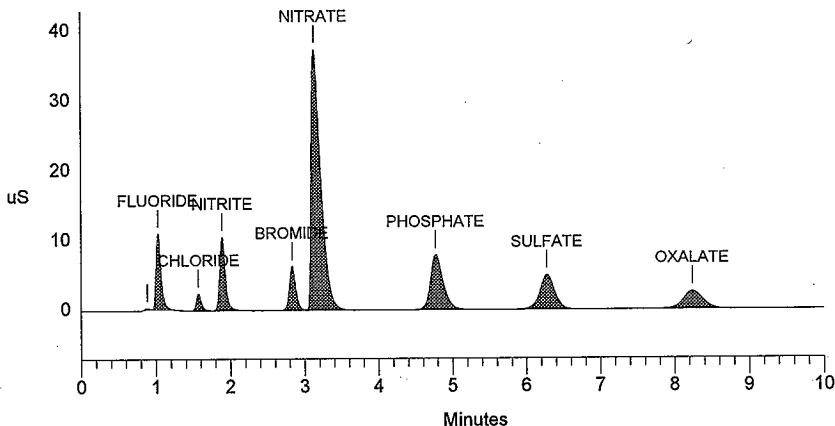
Sample Name: S96T005163 SPIKE Date: 01/04/1997 01:58:55
Data File : E:\DATA\97010391.d09
Method : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 41 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	172	677	2	
2	1.03	FLUORIDE	100.083	10768	50021	2	-1.90
3	1.57	CHLORIDE	34.275	2373	11088	2	-0.63
4	1.89	NITRITE	237.975	10472	54908	2	-1.56
5	2.83	BROMIDE	248.141	6278	37372	2	-3.08
6	3.13	NITRATE	1521.204	37395	337105	2	0.00
7	4.77	PHOSPHATE	900.776	7891	93499	1	-4.98
8	6.28	SULFATE	272.331	4975	68464	1	-4.90
9	8.24	OXALATE	262.099	2567	47776	1	-5.00
Totals			3576.883	82890	700909		

File: 97010391.d09 Sample: S96T005163 SPIKE



LABCORE Completed Worklist Report for Worklist# 14696

Analyst: smf

Instrument: IC02

Book# 36N20C

Method: LA533105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	⊖IC-QC	F	QC	1	<1.20e-2	ug/mL
1	CCB	0	⊖IC-QC	CL	QC	1	<1.70e-2	ug/mL
1	CCB	0	⊖IC-QC	NO2	QC	1	<1.08e-1	ug/mL
1	CCB	0	⊖IC-QC	BR	QC	1	<1.25e-1	ug/mL
1	CCB	0	⊖IC-QC	NO3	QC	1	<1.39e-1	ug/mL
1	CCB	0	⊖IC-QC	PO4	QC	1	<1.20e-1	ug/mL
1	CCB	0	⊖IC-QC	SO4	QC	1	<1.38e-1	ug/mL
1	CCB	0	⊖IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV	0	⊖IC-QC	F	QC	5.90e01	5.73e+01	97.119 % Recovery
2	CCV	0	⊖IC-QC	CL	QC	7.90e01	7.93e+01	100.380 % Recovery
2	CCV	0	⊖IC-QC	NO2	QC	5.41e02	5.31e+02	98.152 % Recovery
2	CCV	0	⊖IC-QC	BR	QC	5.89e02	5.97e+02	101.358 % Recovery
2	CCV	0	⊖IC-QC	NO3	QC	5.94e02	6.19e+02	104.209 % Recovery
2	CCV	0	⊖IC-QC	PO4	QC	5.44e02	5.33e+02	97.978 % Recovery
2	CCV	0	⊖IC-QC	SO4	QC	6.31e02	6.43e+02	101.902 % Recovery
2	CCV	0	⊖IC-QC	OXALATE2	QC	5.25e02	5.59e+02	106.476 % Recovery
3	BLNK-PREP	0	⊖IC-01	F-02	SOLID	1	<1.20e-2	ug/g
3	BLNK-PREP	0	⊖IC-01	CL-02	SOLID	1	<1.70e-2	ug/g
3	BLNK-PREP	0	⊖IC-01	NO2-02	SOLID	1	<1.08e-1	ug/g
3	BLNK-PREP	0	⊖IC-01	BR-02	SOLID	1	<1.25e-1	ug/g
3	BLNK-PREP	0	⊖IC-01	NO3-02	SOLID	1	<1.72e-01	0.172 ug/g
3	BLNK-PREP	0	⊖IC-01	PO4-02	SOLID	1	<1.20e-1	ug/g
3	BLNK-PREP	0	⊖IC-01	SO4-02	SOLID	1	<1.38e-1	ug/g
3	BLNK-PREP	0	⊖IC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	F-02	SOLID	N/A	2.729e+03 100.400 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	CL-02	SOLID	N/A	2.694e+03 142.200 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	NO2-02	SOLID	N/A	3.627e+04 903.600 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	BR-02	SOLID	N/A	1.046e+03 1046.000 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	NO3-02	SOLID	N/A	1.423e+05 1163.000 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	PO4-02	SOLID	N/A	7.776e+03 1004.000 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	SO4-02	SOLID	N/A	9.919e+03 1155.000 ug/g
4	SAMPLE	S96T005312	0 W	⊖IC-01	OXALATE2	SOLID	N/A	1.297e+04 878.600 ug/g
5	DUP	S96T005312	0 W	⊖IC-01	F-02	SOLID	2.73e+03	1.33e+03 19.802 RPD
5	DUP	S96T005312	0 W	⊖IC-01	CL-02	SOLID	2.69e+03	2.53e+03 6.130 RPD
5	DUP	S96T005312	0 W	⊖IC-01	NO2-02	SOLID	3.63e+04	1.43e+04 5.666 RPD
5	DUP	S96T005312	0 W	⊖IC-01	BR-02	SOLID	<1.05e3	<9.99e2 RPD
5	DUP	S96T005312	0 W	⊖IC-01	NO3-02	SOLID	1.42e+05	1.39e+05 2.135 RPD
5	DUP	S96T005312	0 W	⊖IC-01	PO4-02	SOLID	7.78e+03	7.36e+03 5.548 RPD
5	DUP	S96T005312	0 W	⊖IC-01	SO4-02	SOLID	9.92e+03	1.68e+04 51.497 RPD
5	DUP	S96T005312	0 W	⊖IC-01	OXALATE2	SOLID	1.30e+04	1.37e+04 5.243 RPD
6	SFX	S96T005312	0 W	⊖IC-01	F-02	SOLID	5.90e01	5.14e+01 87.119 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14696

Seq Type	Sample#	RA	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005312	0 W @IC-01	CL-02	SOLID	7.90e01	7.09e+01	89.747 % Recovery	
6 SPK	S96T005312	0 W @IC-01	NO2-02	SOLID	5.41e02	5.01e+02	92.606 % Recovery	
6 SPK	S96T005312	0 W @IC-01	BR-02	SOLID	5.89e02	5.18e+02	87.946 % Recovery	
6 SPK	S96T005312	0 W @IC-01	NO3-02	SOLID	5.94e02	6.05e+02	101.852 % Recovery	
6 SPK	S96T005312	0 W @IC-01	PO4-02	SOLID	5.44e02	4.64e+02	85.294 % Recovery	
6 SPK	S96T005312	0 W @IC-01	SO4-02	SOLID	6.31e02	5.73e+02	90.808 % Recovery	
6 SPK	S96T005312	0 W @IC-01	OXALATE2	SOLID	5.25e02	4.55e+02	86.667 % Recovery	
8 DUP	S96T005308	0 W @IC-01	F-02	SOLID	9.68e+03	1.37e+04	34.388 RPD	
8 DUP	S96T005308	0 W @IC-01	CL-02	SOLID	1.20e+03	1.36e+03	12.500 RPD	
8 DUP	S96T005308	0 W @IC-01	NO2-02	SOLID	1.61e+04	1.77e+04	9.467 RPD	
8 DUP	S96T005308	0 W @IC-01	BR-02	SOLID	<9.56e2	<9.77e2	RPD	
8 DUP	S96T005308	0 W @IC-01	NO3-02	SOLID	2.51e+05	1.44e+05	54.177 RPD	
8 DUP	S96T005308	0 W @IC-01	PO4-02	SOLID	1.24e+04	2.23e+04	57.061 RPD	
8 DUP	S96T005308	0 W @IC-01	SO4-02	SOLID	3.95e+04	5.06e+04	24.639 RPD	
8 DUP	S96T005308	0 W @IC-01	OXALATE2	SOLID	2.43e+04	3.00e+04	20.994 RPD	

Comments Section:

Comments for sample# S96T005312 and test @IC-01

High RPD for SO4 noted however no rerun will be done unless requested. hla 1/10/97

Final page for worklist# 14696

Analyst Signature

Date

Analyst Signature

Date

H. Anasto
Reviewer Signature

1-10-97
Date

S96T005308 was rejected + will
be run on WL16117 due to high
RPDs.

LABCORE Data Entry Template for Worklist# 14696

Analyst: SME Instrument: IC0 IC02 Book# 36N20-C

Method: LA-533-105 Rev/Mod _____

Worklist Comment: BY-111 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T005312 0 W			@IC-01	SOLID	96001257	BY-111
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S96T005312 0 W			@IC-01	SOLID		
6	SPK	S96T005312 0 W			@IC-01	SOLID		
7	SAMPLE	S96T005308 0 W			@IC-01	SOLID	96001257	BY-111
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S96T005308 0 W			@IC-01	SOLID		

Final page for worklist # 14696

Lisa M. Dufren 1-7-97
Analyst Signature Date

Analyst Signature Date

14696JA.CSV in shell +
uploaded 1-10-97 Hra

S96T005308 will be rerun due to high RPDs.

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				10-Jan-97			
Worklist#: 14696				Data File: 14696JA.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name	Dilution		
-	=>	1	CCB	S96T005312 S96T005312 S96T005312 S96T005308 S96T005308	-	1	97010671.d06	CCB ELUENT BLANK	1.00		
	=>	2	CCV			2	97010671.d07	CCV STD 36N20-C	101.00		
	=>	3	BLNK-PREP			3	97010671.d08	PREP BLANK	1.00		
	=>	4	SAMPLE			7	97010671.d09	S96T005308 SAM	41.00		
	=>	5	DUP			4	97010671.d10	S96T005312 SAM	41.00		
	=>	6	SPK			5	97010671.d11	S96T005312 DUP	41.00		
	=>	7	SAMPLE			6	97010671.d12	S96T005312 SPK	41.00		
	=>	8	DUP			8	97010671.d13	S96T005308 DUP	41.00		
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Sample Name: CCB ELUENT BLANK Date: 01/07/1997 00:12:32
 Data File : C:\DX\DATA\97010671.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 1 Inject#: 6
 Analyst : Column: Detector: CDM-1

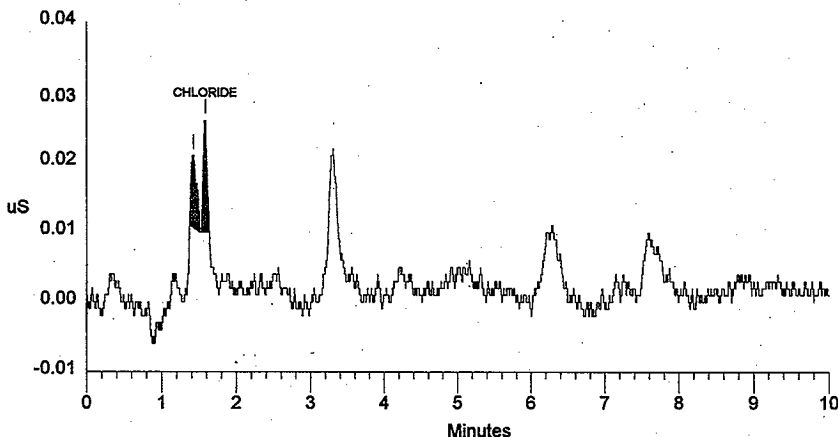
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.42		0.000	10	52	2	
2	1.58	CHLORIDE	0.010	16	55	2	0.21
Totals			0.010	26	106		

File: 97010671.D06 Sample: CCB ELUENT BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 735 TO 772.

Sample Name: CCV STD 36N20-C Date: 01/07/1997 01:27:59
 Data File : C:\DX\DATA\97010671.D07
 Method : C:\DX\METHOD\ANIONS.MET
 ACT Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : *Laurie M. Sulten* Column:

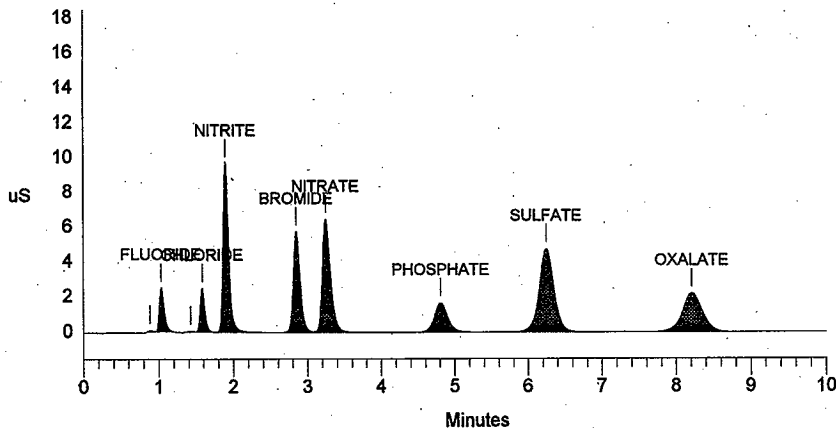
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	69	285	2	
2	1.04	FLUORIDE	57.293	2490	11049	2	-1.27
3	1.42		0.000	36	163	2	
4	1.58	CHLORIDE	79.304	2475	10401	2	0.21
5	1.90	NITRITE	530.558	9675	49546	1	-1.22
6	2.85	BROMIDE	596.676	5754	36441	2	-2.40
7	3.25	NITRATE	618.962	6475	49022	2	-3.56
8	4.81	PHOSPHATE	532.641	1675	20680	1	-4.18
9	6.25	SULFATE	642.697	4772	65498	1	-5.30
10	8.21	OXALATE	559.110	2221	41228	1	-5.31
Totals			3617.241	35644	284313		

File: 97010671.D07 Sample: CCV STD 36N20-C



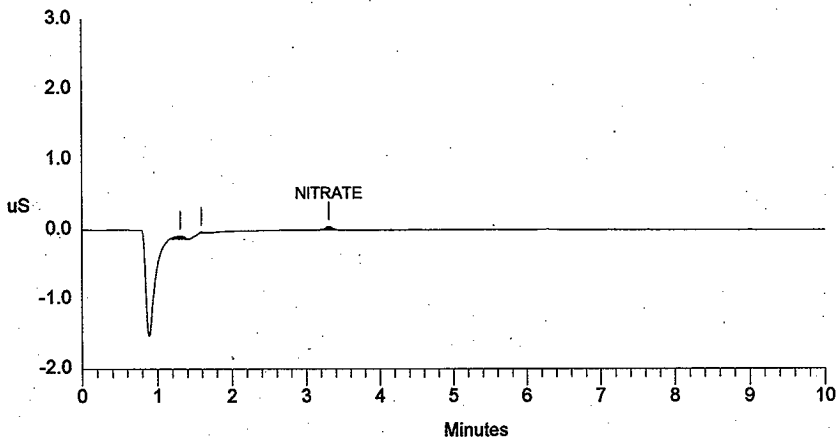
Sample Name: PREP BLANK	Date: 01/07/1997 01:40:52
Data File : C:\DX\DATA\97010671.D08	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 1 Inject#: 8	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.31		0.000	43	411	1	
3	3.31	NITRATE	0.172	44	276	1	-1.78
Totals			0.172	87	687		

File: 97010671.D08 Sample: PREP BLANK



```

=====
Sample Name: S96T005312 SAM                      Date: 01/07/1997 02:02:30
Data File  : E:\DATA\97010671.D10
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 10
Analyst    :                               Detector: CDM-1
Column:
=====
  
```

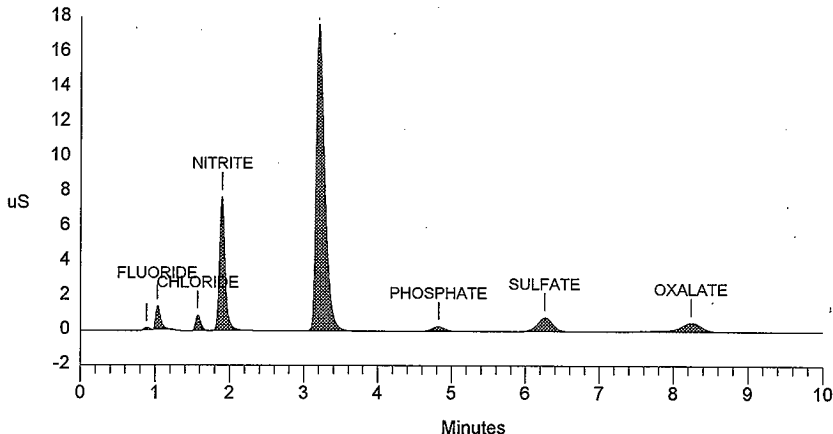
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          41    3000   5Hz    0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	117	564	1	
2	1.03	FLUORIDE	13.371	1365	6221	1	-1.90
3	1.57	CHLORIDE	13.201	884	4187	1	-0.63
4	1.90	NITRITE	177.718	7700	40635	1	-1.22
5	3.20	NITRATE	697.077	17524	142768	1	-0.10
6	4.82	PHOSPHATE	38.102	268	3190	1	-3.92
7	6.26	SULFATE	48.602	814	11405	1	-5.10
8	8.24	OXALATE	63.567	516	11124	1	-5.00
Totals			1051.638	29187	220094		

File: 97010671.D10 Sample: S96T005312 SAM



```

=====
Sample Name: S96T005312 DUP                               Date: 01/07/1997 02:14:48
Data File  : E:\DATA\97010671.D11
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 11                        Detector: CDM-1
Analyst    :                               Column:
=====
  
```

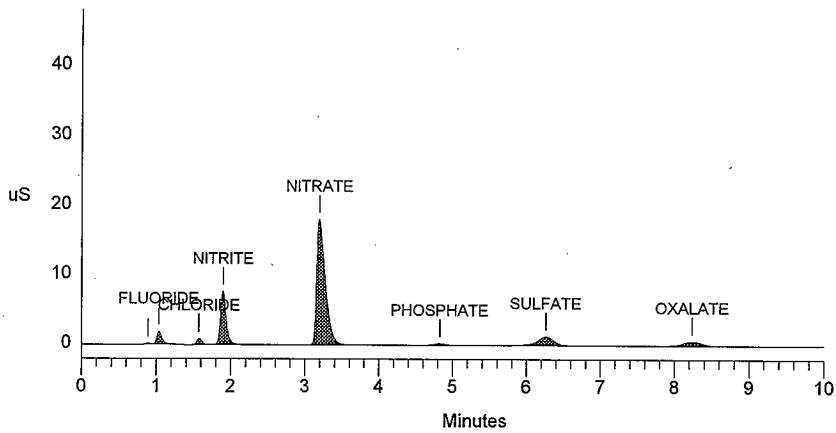
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	133	651	1	
2	1.04	FLUORIDE	17.087	1805	8031	1	-1.27
3	1.57	CHLORIDE	12.949	874	4105	1	-0.63
4	1.90	NITRITE	175.653	7662	40148	1	-1.22
5	3.20	NITRATE	712.779	18087	146195	1	-0.10
6	4.82	PHOSPHATE	37.742	259	3155	1	-3.92
7	6.26	SULFATE	86.274	1293	20873	1	-5.10
8	8.24	OXALATE	70.136	666	12323	1	-5.00
Totals			1112.622	30779	235481		

File: 97010671.D11 Sample: S96T005312 DUP



Data Reprocessed On 01/10/1997 09:55:29

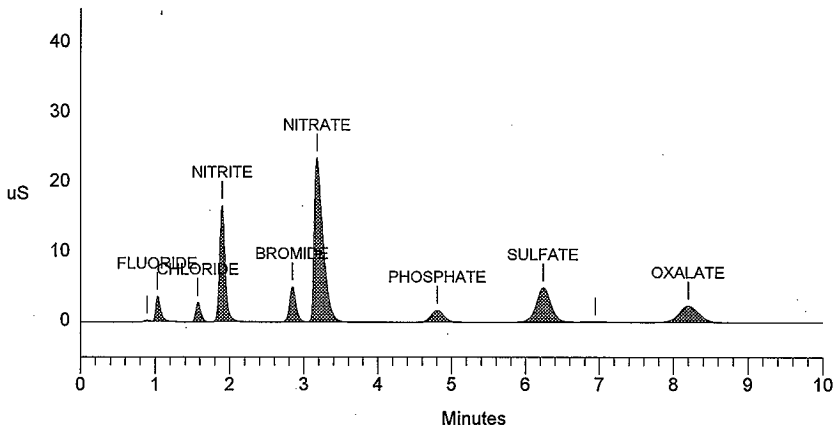
Sample Name: S96T005312 SPK Date: 01/07/1997 02:26:16
Data File : E:\DATA\97010671.D12
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 41 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	181	840	2	
2	1.03	FLUORIDE	33.924	3581	16302	2	-1.90
3	1.57	CHLORIDE	41.572	2845	13507	2	-0.63
4	1.90	NITRITE	378.016	16679	88382	2	-1.22
5	2.84	BROMIDE	207.296	5073	30982	2	-2.63
6	3.18	NITRATE	939.130	23540	196657	2	-0.10
7	4.80	PHOSPHATE	223.507	1735	21407	1	-4.32
8	6.24	SULFATE	277.925	4974	69917	3	-0.05
9	6.94		0.000	114	3378	4	
10	8.20	OXALATE	245.500	2426	44679	1	-5.46
Totals			2346.871	61147	486051		

File: 97010671.D12 Sample: S96T005312 SPK



Data Reprocessed On 01/10/1997 09:56:39

```
=====
Sample Name: S96T005308 SAM                      Date: 01/07/1997 01:51:44
Data File  : E:\DATA\97010671.D09
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 9
Analyst    :                               Detector: CDM-1
Column:
=====
```

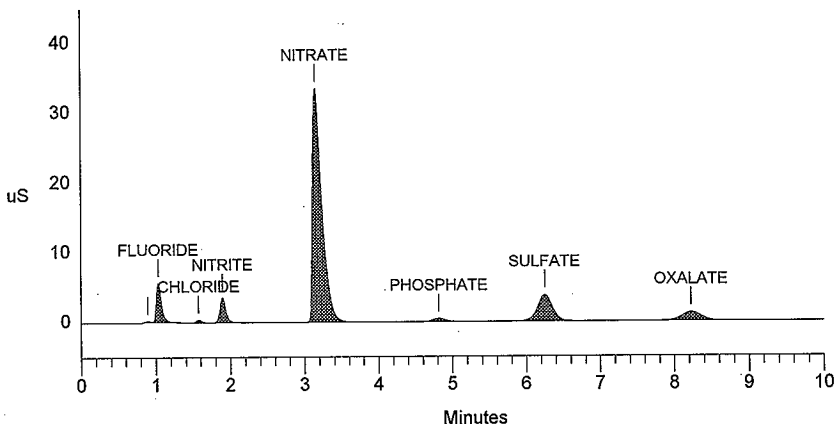
```
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000   5Hz   0.00 10.00          50
=====
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	147	620	2	
2	1.04	FLUORIDE	51.876	5557	25255	2	-1.27
3	1.57	CHLORIDE	6.410	405	1989	1	-0.63
4	1.89	NITRITE	86.301	3523	19128	1	-1.56
5	3.15	NITRATE	1345.459	33535	292864	1	0.00
6	4.82	PHOSPHATE	66.263	480	5921	1	-4.05
7	6.25	SULFATE	211.940	3804	52861	1	-5.30
8	8.22	OXALATE	130.232	1265	23337	1	-5.15

Totals 1898.480 48715 421975

File: 97010671.D09 Sample: S96T005308 SAM



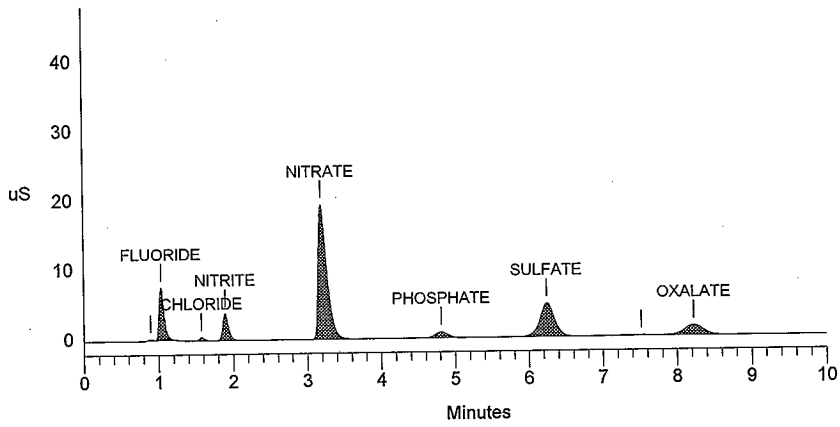
Data Reprocessed On 01/10/1997 09:57:41

Sample Name: S96T005308 DUP Date: 01/07/1997 02:37:14
 Data File : E:\DATA\97010671.D13
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 1 Inject#: 13 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 41 3000 5Hz 0.00 10.00 50
 ***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	149	636	2	
2	1.04	FLUORIDE	71.716	7452	35315	2	-1.27
3	1.57	CHLORIDE	7.160	475	2232	1	-0.63
4	1.89	NITRITE	92.896	3841	20674	1	-1.56
5	3.19	NITRATE	757.768	19335	156065	1	0.00
6	4.81	PHOSPHATE	116.998	881	10873	1	-4.18
7	6.24	SULFATE	265.301	4803	66640	2	-5.51
8	7.52		0.000	125	4188	2	
9	8.22	OXALATE	157.468	1488	28354	2	-5.15
Totals			1469.307	38549	324976		

File: 97010671.D13 Sample: S96T005308 DUP



LABCORE Completed Worklist Report for Worklist# 14697

Analyst: krq

Instrument: IC02

Book# 36 N20 C

Method: LA5331DS Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	⊗IC-QC F	QC	1	<1.20e-2		ug/mL
1 CCB	0	⊗IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	⊗IC-QC NO2	QC	1	<1.08e-1		ug/mL
1 CCB	0	⊗IC-QC BR	QC	1	<1.25e-1		ug/mL
1 CCB	0	⊗IC-QC NO3	QC	1	<1.39e-1		ug/mL
1 CCB	0	⊗IC-QC P04	QC	1	1.36e-01	0.136	ug/mL
1 CCB	0	⊗IC-QC S04	QC	1	<1.38e-1		ug/mL
1 CCB	0	⊗IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	⊗IC-QC F	QC	5.90e01	5.07e+01	102.981 % Recovery	
2 CCV	0	⊗IC-QC CL	QC	7.90e01	8.10e+01	102.532 % Recovery	
2 CCV	0	⊗IC-QC NO2	QC	5.41e02	5.48e+02	101.294 % Recovery	
2 CCV	0	⊗IC-QC BR	QC	5.89e02	6.08e+02	103.226 % Recovery	
2 CCV	0	⊗IC-QC NO3	QC	5.94e02	6.21e+02	104.545 % Recovery	
2 CCV	0	⊗IC-QC P04	QC	5.44e02	5.49e+02	100.919 % Recovery	
2 CCV	0	⊗IC-QC S04	QC	6.31e02	6.58e+02	104.279 % Recovery	
2 CCV	0	⊗IC-QC OXALATE2	QC	5.25e02	5.62e+02	107.048 % Recovery	
3 BLNK-PREP	0	⊗IC-01 F-02	SOLID	1	<1.20e-2		ug/g
3 BLNK-PREP	0	⊗IC-01 CL-02	SOLID	1	2.20e-02	0.022	ug/g
3 BLNK-PREP	0	⊗IC-01 NO2-02	SOLID	1	<1.08e-1		ug/g
3 BLNK-PREP	0	⊗IC-01 BR-02	SOLID	1	<1.25e-1		ug/g
3 BLNK-PREP	0	⊗IC-01 NO3-02	SOLID	1	1.64e-01	0.164	ug/g
3 BLNK-PREP	0	⊗IC-01 P04-02	SOLID	1	<1.20e-1		ug/g
3 BLNK-PREP	0	⊗IC-01 S04-02	SOLID	1	<1.38e-1		ug/g
3 BLNK-PREP	0	⊗IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 F-02	SOLID	N/A	1.530e+01	2.265	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 CL-02	SOLID	N/A	1.755e+01	3.209	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 NO2-02	SOLID	N/A	1.166e+02	20.390	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 BR-02	SOLID	N/A	< 2.359e+01	23.590	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 NO3-02	SOLID	N/A	3.741e+02	26.240	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 P04-02	SOLID	N/A	5.700e+01	22.650	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 S04-02	SOLID	N/A	2.088e+02	26.050	ug/g
4 SAMPLE	S96T005324	0 W ⊗IC-01 OXALATE2	SOLID	N/A	< 1.982e+01	19.820	ug/g
5 DUP	S96T005324	0 W ⊗IC-01 F-02	SOLID	3.53e+01	2.89e+01	19.938	RPD
5 DUP	S96T005324	0 W ⊗IC-01 CL-02	SOLID	1.76e+01	3.54e+01	67.170	RPD
5 DUP	S96T005324	0 W ⊗IC-01 NO2-02	SOLID	1.47e+02	1.83e+02	44.000	RPD
5 DUP	S96T005324	0 W ⊗IC-01 BR-02	SOLID	<2.36e1	<2.27e1		RPD
5 DUP	S96T005324	0 W ⊗IC-01 NO3-02	SOLID	3.74e+02	7.26e+02	64.000	RPD
5 DUP	S96T005324	0 W ⊗IC-01 P04-02	SOLID	5.70e+01	4.98e+01	13.483	RPD
5 DUP	S96T005324	0 W ⊗IC-01 S04-02	SOLID	2.09e+02	2.77e+02	27.984	RPD
5 DUP	S96T005324	0 W ⊗IC-01 OXALATE2	SOLID	<1.98e1	5.29e+01		RPD
6 SPK	S96T005324	0 W ⊗IC-01 F-02	SOLID	5.90e01	5.83e+01	98.814 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14697

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005324 0 W	01C-01	CL-02	SOLID	7.90e01	9.03e+01	114.304 % Recovery
6 SPK	S96T005324 0 W	01C-01	N02-02	SOLID	5.41e02	5.47e+02	101.109 % Recovery
6 SPK	S96T005324 0 W	01C-01	BR-02	SOLID	5.89e02	5.95e+02	101.019 % Recovery
6 SPK	S96T005324 0 W	01C-01	N03-02	SOLID	5.94e02	6.11e+02	102.862 % Recovery
6 SPK	S96T005324 0 W	01C-01	P04-02	SOLID	5.44e02	5.34e+02	98.162 % Recovery
6 SPK	S96T005324 0 W	01C-01	S04-02	SOLID	6.31e02	6.46e+02	102.377 % Recovery
6 SPK	S96T005324 0 W	01C-01	OXALATE1	SOLID	5.25e02	5.49e+02	104.571 % Recovery
7 SAMPLE	S96T005340 0 W	01C-01	F-02	SOLID	N/A	7.300e+03	45.820 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	CL-02	SOLID	N/A	8.656e+02	64.910 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	N02-02	SOLID	N/A	1.168e+04	412.400 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	BR-02	SOLID	N/A	4.773e+02	477.300 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	N03-02	SOLID	N/A	1.240e+05	530.700 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	P04-02	SOLID	N/A	1.000e+04	458.200 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	S04-02	SOLID	N/A	2.881e+04	526.900 ug/g
7 SAMPLE	S96T005340 0 W	01C-01	OXALATE2	SOLID	N/A	1.349e+04	400.900 ug/g
8 DUP	S96T005340 0 W	01C-01	F-02	SOLID	7.30e+03	5.88e+03	21.548 RPD
8 DUP	S96T005340 0 W	01C-01	CL-02	SOLID	8.70e+02	9.56e+02	9.419 RPD
8 DUP	S96T005340 0 W	01C-01	N02-02	SOLID	1.17e+04	1.25e+04	6.612 RPD
8 DUP	S96T005340 0 W	01C-01	BR-02	SOLID	<4.77e2	<4.72e2	RPD
8 DUP	S96T005340 0 W	01C-01	N03-02	SOLID	1.24e+05	8.94e+04	32.427 RPD
8 DUP	S96T005340 0 W	01C-01	P04-02	SOLID	1.00e+04	5.21e+03	69.831 RPD
8 DUP	S96T005340 0 W	01C-01	S04-02	SOLID	2.88e+04	2.59e+04	10.603 RPD
8 DUP	S96T005340 0 W	01C-01	OXALATE2	SOLID	1.35e+04	1.20e+04	11.765 RPD
9 SPK	S96T005340 0 W	01C-01	F-02	SOLID	5.90e01	5.32e+01	90.169 % Recovery
9 SPK	S96T005340 0 W	01C-01	CL-02	SOLID	7.90e01	7.90e+01	100.000 % Recovery
9 SPK	S96T005340 0 W	01C-01	N02-02	SOLID	5.41e02	5.53e+02	102.218 % Recovery
9 SPK	S96T005340 0 W	01C-01	BR-02	SOLID	5.89e02	5.93e+02	100.679 % Recovery
9 SPK	S96T005340 0 W	01C-01	N03-02	SOLID	5.94e02	6.03e+02	101.515 % Recovery
9 SPK	S96T005340 0 W	01C-01	P04-02	SOLID	5.44e02	5.46e+02	100.368 % Recovery
9 SPK	S96T005340 0 W	01C-01	S04-02	SOLID	6.31e02	7.18e+02	113.788 % Recovery
9 SPK	S96T005340 0 W	01C-01	OXALATE2	SOLID	5.25e02	5.62e+02	107.048 % Recovery
10 SAMPLE	S96T005339 0 W	01C-01	F-02	SOLID	N/A	9.684e+03	48.050 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	CL-02	SOLID	N/A	3.849e+02	68.060 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	N02-02	SOLID	N/A	3.556e+03	432.400 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	BR-02	SOLID	N/A	<5.005e+02	500.400 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	N03-02	SOLID	N/A	1.401e+04	556.500 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	P04-02	SOLID	N/A	6.178e+03	480.500 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	S04-02	SOLID	N/A	4.156e+04	552.500 ug/g
10 SAMPLE	S96T005339 0 W	01C-01	OXALATE2	SOLID	N/A	3.418e+04	420.400 ug/g
11 DUP	S96T005339 0 W	01C-01	F-02	SOLID	9.68e+03	1.01e+04	4.247 RPD
11 DUP	S96T005339 0 W	01C-01	CL-02	SOLID	3.85e+02	2.84e+02	30.194 RPD
11 DUP	S96T005339 0 W	01C-01	N02-02	SOLID	3.56e+03	3.49e+03	1.986 RPD
11 DUP	S96T005339 0 W	01C-01	BR-02	SOLID	<5.00e2	<4.96e2	RPD
11 DUP	S96T005339 0 W	01C-01	N03-02	SOLID	1.40e+04	1.33e+04	5.128 RPD
11 DUP	S96T005339 0 W	01C-01	P04-02	SOLID	6.18e+03	9.00e+03	37.154 RPD
11 DUP	S96T005339 0 W	01C-01	S04-02	SOLID	4.16e+04	4.16e+04	0.000 RPD
11 DUP	S96T005339 0 W	01C-01	OXALATE2	SOLID	3.44e+04	3.23e+04	6.297 RPD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14697

Seq	Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
-----	------	---------	-----	------	--------	--------	-------	-------------	------

Comments Section:

Comments for sample# S96T005324 and test @IC-01 .

High RPDs for Cl NO2 NO3 and SO4 are noted however sample will not be rerun since appears to be matrix interference or sample inhomogeneity (other analytes are well within limits) hla 1/10/97

Comments for sample# S96T005340 and test @IC-01 .

High RPDs for F NO3 and PO4 are noted however no rerun will be done unless requested since it appears to be due to matrix interference or sample inhomogeneity (other analytes are within limits) hla 1/10/97

Comments for sample# S96T005339 and test @IC-01 .

High RPD for Cl and PO4 are noted however no rerun will be done unless requested since it appears to be due to sample inhomogeneity or matrix interference (other analytes are within limits) hla 1/10/97

Final page for worklist# 14697

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

H Anastos
Reviewer Signature

1-10-97
Date

Validated 1-10-97

LABCORE Data Entry Template for Worklist# 14697

Analyst: JRP Instrument: IC0 FC02

Book# 36020-5-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	CCB		@IC-QC	QC		
2	CCV		@IC-QC	QC		
3	BLNK-PREP		@IC-01	SOLID		
4	SAMPLE	S96T005324 0 W	@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5	DUP	S96T005324 0 W	@IC-01	SOLID		
6	SPK	S96T005324 0 W	@IC-01	SOLID		
7	SAMPLE	S96T005340 0 W	@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8	DUP	S96T005340 0 W	@IC-01	SOLID		
9	SPK	S96T005340 0 W	@IC-01	SOLID		
10	SAMPLE	S96T005339 0 W	@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
11	DUP	S96T005339 0 W	@IC-01	SOLID		

Final page for worklist # 14697

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

14697 JA. CSV uploaded 1-10-97 Hea
multiple RPD failures, appear due
to sample inhomogeneity or matrix
interferences.

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				10-Jan-97			
Worklist#: 14697				Data File: 14697JA.CSV							
		Seq	Type	Sample #	Seq#		Data File	Sample Name	Dilution		
-	=>	1	CCB	S96T005324 S96T005324 S96T005324 S96T005340 S96T005340 S96T005340 S96T005340 S96T005340 S96T005339 S96T005339	-	1	97010491.d01	BLANK	1.00		
	=>	2	CCV			2	97010491.d02	CCV 36N20-C	101.00		
	=>	3	BLNK-PREP			3	97010491.d04	BLANK PREP 14697	1.00		
	=>	4	SAMPLE			4	97010501.d05	S96T005324 SAMPL	1.00		
	=>	5	DUP			5	97010511.d06	S96T005324 DUP	1.00		
	=>	6	SPK			6	97010511.d05	S96T005324 SPIKE	1.00		
	=>	7	SAMPLE			7	97010501.d06	S96T005340 SAMPL	21.00		
	=>	8	DUP			8	97010501.d07	S96T005340 DUP	21.00		
	=>	9	SPK			9	97010501.d08	S96T005340 SPIKE	21.00		
	=>	10	SAMPLE			10	97010501.d09	S96T005339 SAMPL	21.00		
	=>	11	DUP			11	97010491.d10	S96T005339 DUP	21.00		
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

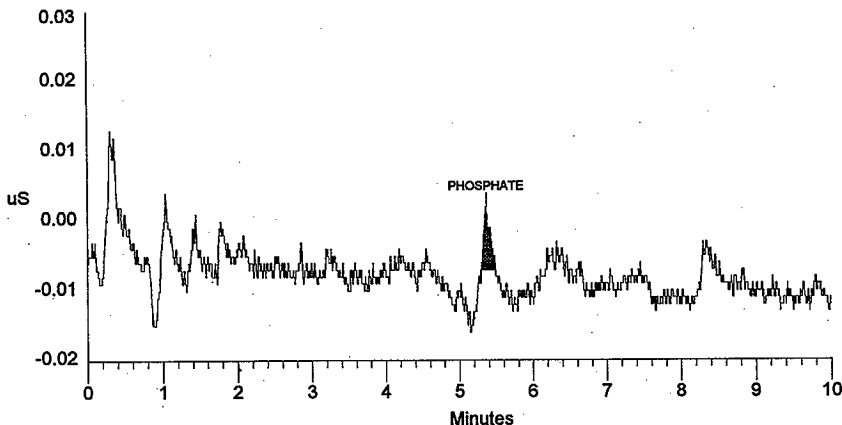
Sample Name: BLANK	Date: 01/04/1997 19:38:46
Data File : C:\DX\DATA\97010491.D01	
Method : C:\DX\METHOD\ANIONSA.MET	
ACI Address: 1 System: 1 Inject#: 1	Detector: CDM-1
Analyst <i>[Signature]</i> Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	5.37	PHOSPHATE	0.136	8	51	1	6.97
Totals			0.136	8	51		

File: 97010491.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 498 TO 502.

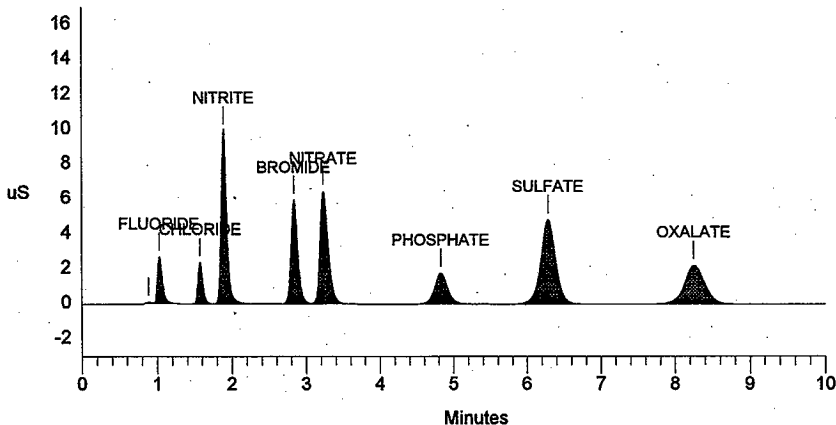
Sample Name: CCV 36N20-C		Date: 01/04/1997 19:51:24
Data File : C:\DX\DATA\97010491.D02		
Method : C:\DX\METHOD\ANIONSA.MET		
ACI Address: 1	System: 1	Inject#: 2
Analyst	Column:	Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	56	238	2	
2	1.03	FLUORIDE	60.720	2628	11731	2	-1.90
3	1.58	CHLORIDE	81.034	2360	10632	1	-0.21
4	1.89	NITRITE	547.710	9895	51197	1	-1.56
5	2.84	BROMIDE	607.653	5910	37141	2	-2.85
6	3.24	NITRATE	621.138	6432	49201	2	-3.96
7	4.83	PHOSPHATE	549.231	1754	21352	1	-3.78
8	6.29	SULFATE	657.532	4838	67059	1	-4.70
9	8.25	OXALATE	561.855	2212	41435	1	-4.84
Totals			3686.873	36084	289987		

File: 97010491.D02 Sample: CCV 36N20-C



AD-2007

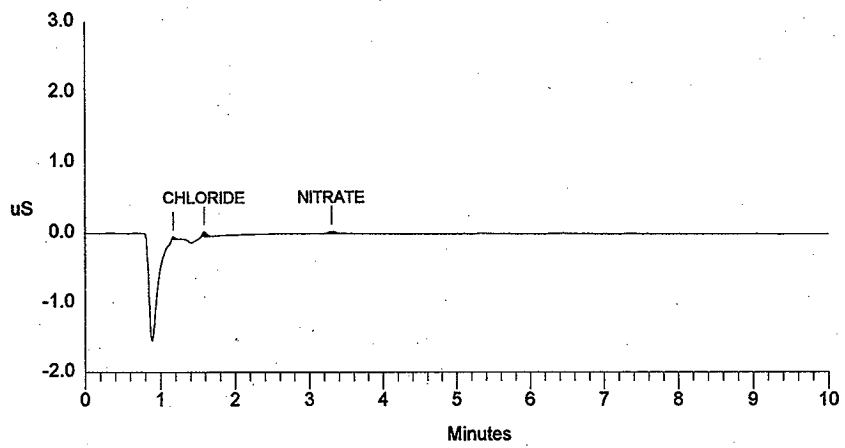
Sample Name: BLANK PREP 14697 Date: 01/04/1997 20:16:40
 Data File : C:\DX\DATA\97010491.D04
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 4
 Analyst: Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.17		0.000	41	104	1	
2	1.58	CHLORIDE	0.022	65	222	1	0.21
3	3.30	NITRATE	0.164	35	219	1	-1.98
Totals			0.187	140	545		

File: 97010491.D04 Sample: BLANK PREP 14697



AD-2017

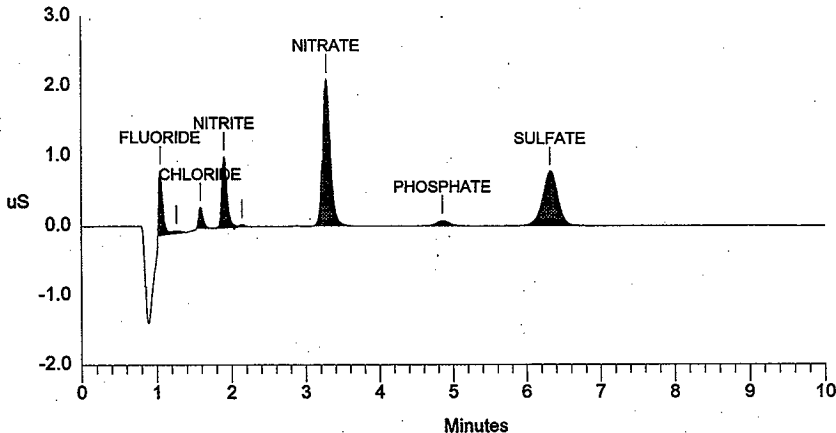
Sample Name: S96T005324 SAMPLE Date: 01/05/1997 00:02:17
 Data File : C:\DX\DATA\97010501.D05
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 5
 Analyst: *[Signature]* Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.05	FLUORIDE	0.187	920	3447	3	0.00
2	1.26		0.000	28	192	4	
3	1.58	CHLORIDE	0.093	288	1154	1	0.21
4	1.90	NITRITE	0.618	1009	4880	3	-0.87
5	2.14		0.000	28	128	4	
6	3.28	NITRATE	1.982	2094	14911	1	-2.57
7	4.86	PHOSPHATE	0.302	68	708	1	-3.25
8	6.32	SULFATE	1.106	768	10589	1	-4.29
Totals			4.288	5202	36009		

File: 97010501.D05 Sample: S96T005324 SAMPLE



2097

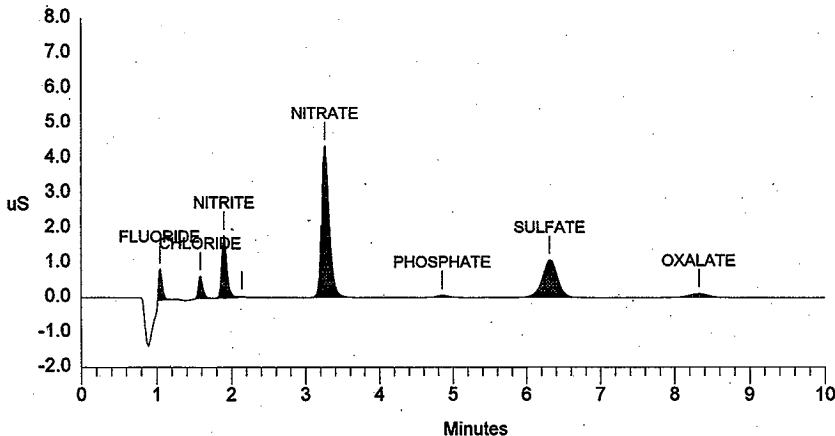
Sample Name: S96T005324 DUP Date: 01/05/1997 00:14:56
 Data File : C:\DX\DATA\97010511.D06
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst: *[Signature]* Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	0.159	873	2907	1	-0.63
2	1.58	CHLORIDE	0.195	618	2498	1	0.21
3	1.90	NITRITE	1.006	1788	8595	3	-0.87
4	2.14		0.000	30	129	4	
5	3.26	NITRATE	3.997	4330	31384	1	-3.17
6	4.86	PHOSPHATE	0.274	55	595	1	-3.25
7	6.32	SULFATE	1.524	1077	14890	1	-4.29
8	8.33	OXALATE	0.291	104	1728	1	-3.92
Totals			7.447	8874	62726		

File: 97010511.D06 Sample: S96T005324 DUP



```

=====
Sample Name: S96T005324 SPIKE      Date: 01/05/1997 02:59:34
Data File  : E:\DATA\97010511.D05
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst    :                      Column:
Detector: CDM-1
=====
  
```

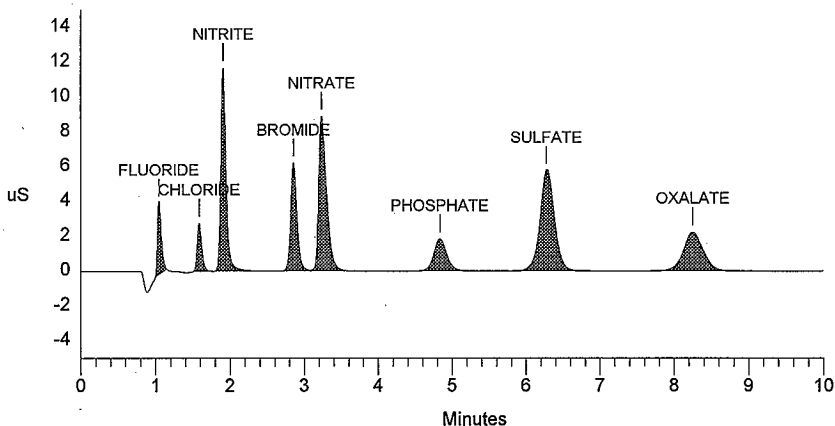
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	0.770	4075	15137	1	-0.63
2	1.58	CHLORIDE	0.879	2739	11678	1	0.21
3	1.91	NITRITE	5.949	11647	56317	1	-0.52
4	2.86	BROMIDE	5.948	6189	36698	2	-2.17
5	3.24	NITRATE	8.094	8866	65494	2	-3.96
6	4.84	PHOSPHATE	5.643	1835	22190	1	-3.65
7	6.28	SULFATE	7.562	5755	78287	1	-4.90
8	8.25	OXALATE	5.491	2228	40889	1	-4.84
Totals			40.336	43334	326689		

File: 97010511.D05 Sample: S96T005324 SPIKE



Data Reprocessed On 01/10/1997 10:41:09

```

=====
Sample Name: S96T005340 SAMPLE                      Date: 01/04/1997 22:18:49
Data File  : E:\DATA\97010501.D06
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst    :                               Column:
Detector: CDM-1
=====

```

```

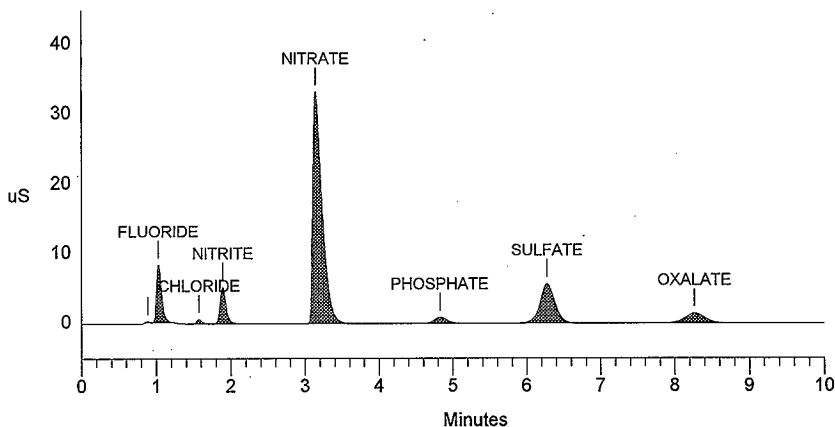
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz  0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	166	653	1	
2	1.03	FLUORIDE	40.152	8230	38740	1	-1.90
3	1.57	CHLORIDE	4.783	614	2936	1	-0.63
4	1.89	NITRITE	64.218	5247	28300	1	-1.56
5	3.14	NITRATE	682.253	33211	289551	1	0.11
6	4.82	PHOSPHATE	59.418	862	10776	1	-3.92
7	6.28	SULFATE	158.460	5675	78111	1	-4.90
8	8.26	OXALATE	74.189	1404	26027	1	-4.69
Totals			1083.472	55408	475094		

File: 97010501.D06 Sample: S96T005340 SAMPLE



```

=====
Sample Name: S96T005340 DUP                      Date: 01/04/1997 22:31:30
Data File  : E:\DATA\97010501.D07
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst    :                               Detector: CDM-1
Column:
=====
  
```

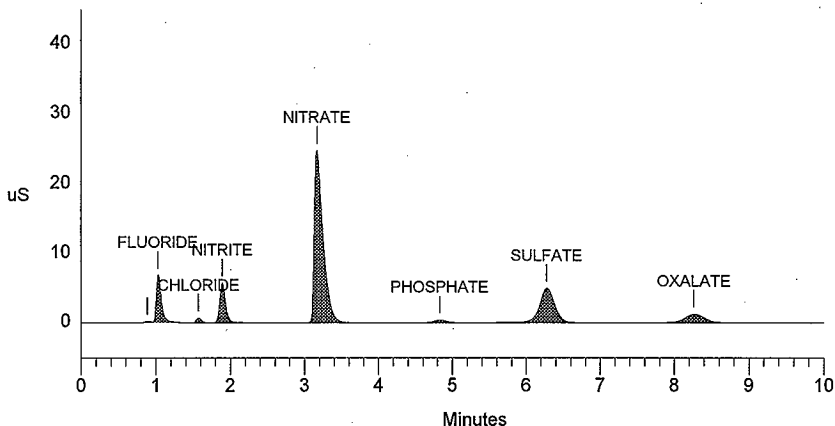
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	126	532	2	
2	1.03	FLUORIDE	32.690	6729	31290	2	-1.90
3	1.57	CHLORIDE	5.319	667	3274	1	-0.63
4	1.89	NITRITE	69.757	5736	30844	1	-1.56
5	3.17	NITRATE	497.230	24775	203879	1	0.00
6	4.83	PHOSPHATE	28.960	409	4976	1	-3.78
7	6.28	SULFATE	144.211	4985	70860	1	-4.90
8	8.26	OXALATE	66.589	1249	23296	1	-4.69
Totals			844.755	44675	368953		

File: 97010501.D07 Sample: S96T005340 DUP



```

=====
Sample Name: S96T005340 SPIKE                      Date: 01/04/1997 22:44:08
Data File  : E:\DATA\97010501.D08
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst    :                               Column:
Detector: CDM-1
=====
  
```

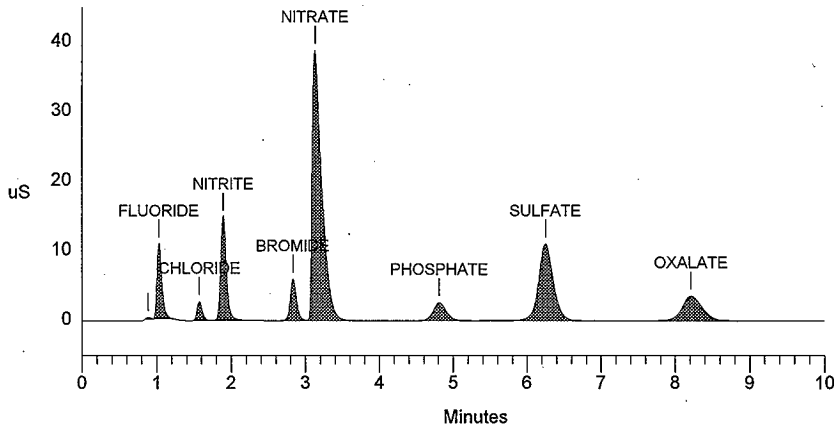
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          21    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	228	946	2	
2	1.03	FLUORIDE	50.795	10691	49543	2	-1.90
3	1.57	CHLORIDE	20.580	2723	13044	2	-0.63
4	1.89	NITRITE	174.879	14785	79595	2	-1.56
5	2.83	BROMIDE	118.616	5942	34775	2	-3.08
6	3.13	NITRATE	802.868	38808	349062	2	0.00
7	4.81	PHOSPHATE	168.580	2620	32047	2	-4.18
8	6.25	SULFATE	302.083	11001	153145	2	-5.30
9	8.21	OXALATE	186.582	3586	66976	1	-5.31
Totals			1824.982	90383	779134		

File: 97010501.D08 Sample: S96T005340 SPIKE



```

=====
Sample Name: S96T005339 SAMPLE                               Date: 01/04/1997 22:56:46
Data File  : C:\DX\DATA\97010501.D09
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 9
Analyst    : [Signature] Column:
Detector: CDM-1
=====
  
```

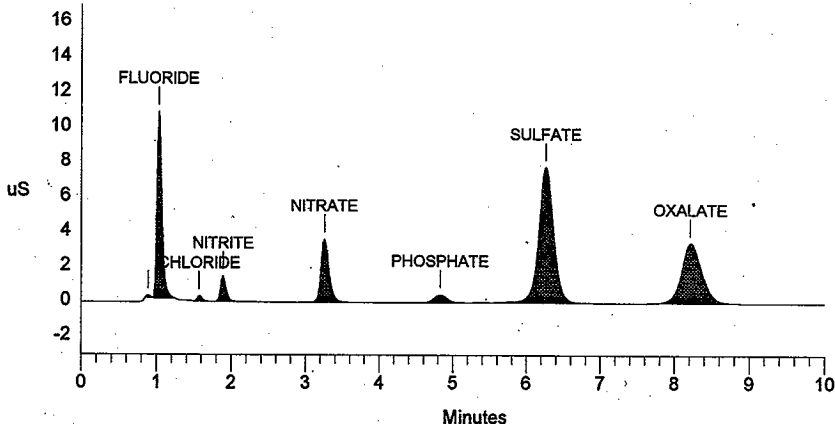
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1           21  3000 5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	147	556	1	
2	1.03	FLUORIDE	50.795	10707	49543	1	-1.90
3	1.57	CHLORIDE	2.019	282	1194	1	-0.63
4	1.89	NITRITE	18.652	1452	7465	1	-1.56
5	3.26	NITRATE	73.470	3632	27292	1	-3.36
6	4.83	PHOSPHATE	32.406	459	5630	1	-3.78
7	6.26	SULFATE	217.998	7803	108773	1	-5.10
8	8.21	OXALATE	180.317	3473	64665	1	-5.31
Totals			575.657	27956	265117		

File: 97010501.D09 Sample: S96T005339 SAMPLE



```

=====
Sample Name: S96T005339 DUP                               Date: 01/04/1997 23:09:24
Data File  : C:\DX\DATA\97010491.D10
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 10.
Analyst    : SP Column:
Detector: CDM-1
=====
  
```

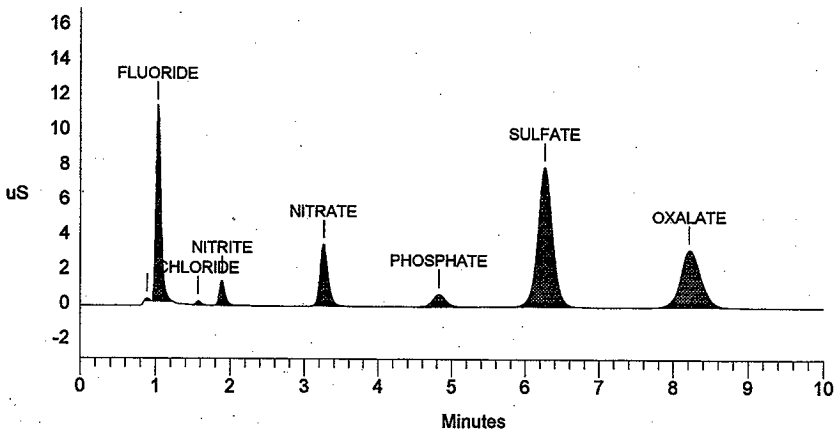
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
External          1          21    3000  5Hz    0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	157	575	1	
2	1.03	FLUORIDE	53.371	11160	52190	1	-1.90
3	1.57	CHLORIDE	1.505	209	871	1	-0.63
4	1.89	NITRITE	18.505	1411	7398	1	-1.56
5	3.26	NITRATE	70.426	3530	26104	1	-3.36
6	4.82	PHOSPHATE	47.692	700	8536	1	-3.92
7	6.26	SULFATE	220.459	8041	110054	1	-5.10
8	8.21	OXALATE	171.175	3291	61299	1	-5.31
Totals			583.133	28498	267026		

File: 97010491.D10 Sample: S96T005339 DUP



LABCORE Completed Worklist Report for Worklist# 14698

Analyst: rdm

Instrument: IC01

Book# 36A20B

Method: 1A-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	QIC-QC	F	QC	1	<1.20e-2	ug/mL
1	CCB	0	QIC-QC	CL	QC	1	<1.70e-2	ug/mL
1	CCB	0	QIC-QC	NO2	QC	1	<1.08e-1	ug/mL
1	CCB	0	QIC-QC	BR	QC	1	<1.25e-1	ug/mL
1	CCB	0	QIC-QC	NO3	QC	1	<1.39e-1	ug/mL
1	CCB	0	QIC-QC	P04	QC	1	<1.20e-1	ug/mL
1	CCB	0	QIC-QC	S04	QC	1	<1.38e-1	ug/mL
1	CCB	0	QIC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV	0	QIC-QC	F	QC	5.90e01	5.68e+01	96.271 % Recovery
2	CCV	0	QIC-QC	CL	QC	7.90e01	7.62e+01	96.456 % Recovery
2	CCV	0	QIC-QC	NO2	QC	5.52e02	5.34e+02	96.739 % Recovery
2	CCV	0	QIC-QC	BR	QC	5.89e02	5.99e+02	101.698 % Recovery
2	CCV	0	QIC-QC	NO3	QC	5.94e02	5.90e+02	99.327 % Recovery
2	CCV	0	QIC-QC	P04	QC	5.44e02	4.88e+02	89.706 % Recovery
2	CCV	0	QIC-QC	S04	QC	6.31e02	6.36e+02	100.792 % Recovery
2	CCV	0	QIC-QC	OXALATE2	QC	5.52e02	5.89e+02	106.703 % Recovery
3	BLNK-PREP	0	QIC-01	F-02	SOLID	1	<1.21e0	ug/g
3	BLNK-PREP	0	QIC-01	CL-02	SOLID	1	2.17e+00	2.170 ug/g
3	BLNK-PREP	0	QIC-01	NO2-02	SOLID	1	<1.09e1	ug/g
3	BLNK-PREP	0	QIC-01	BR-02	SOLID	1	<1.26e1	ug/g
3	BLNK-PREP	0	QIC-01	NO3-02	SOLID	1	<1.40e1	ug/g
3	BLNK-PREP	0	QIC-01	P04-02	SOLID	1	<1.21e1	ug/g
3	BLNK-PREP	0	QIC-01	S04-02	SOLID	1	<1.39e1	ug/g
3	BLNK-PREP	0	QIC-01	OXALATE2	SOLID	1	<1.06e1	ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	F-02	SOLID	N/A	6.813e+03 230.300 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	CL-02	SOLID	N/A	2.410e+03 326.200 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	NO2-02	SOLID	N/A	2.914e+04 2073.000 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	BR-02	SOLID	N/A	< 9.738e+02 973.800 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	NO3-02	SOLID	N/A	1.409e+05 2687.000 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	P04-02	SOLID	N/A	9.579e+03 2303.000 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	S04-02	SOLID	N/A	3.243e+04 2648.000 ug/g
4	SAMPLE	S96T005354	0 W	QIC-01	OXALATE2	SOLID	N/A	5.626e+03 2015.000 ug/g
5	DUP	S96T005354	0 W	QIC-01	F-02	SOLID	6.81e+03	1.17e+04 52.836 RPD
5	DUP	S96T005354	0 W	QIC-01	CL-02	SOLID	2.41e+03	2.69e+03 10.980 RPD
5	DUP	S96T005354	0 W	QIC-01	NO2-02	SOLID	2.91e+04	2.68e+04 1.036 RPD
5	DUP	S96T005354	0 W	QIC-01	BR-02	SOLID	<9.74e2	<9.41e2 RPD
5	DUP	S96T005354	0 W	QIC-01	NO3-02	SOLID	1.41e+05	1.00e+05 34.025 RPD
5	DUP	S96T005354	0 W	QIC-01	P04-02	SOLID	9.58e+03	5.59e+03 52.604 RPD
5	DUP	S96T005354	0 W	QIC-01	S04-02	SOLID	3.24e+04	4.77e+04 36.202 RPD
5	DUP	S96T005354	0 W	QIC-01	OXALATE2	SOLID	5.63e+03	6.82e+03 19.116 RPD
6	SPK	S96T005354	0 W	QIC-01	F-02	SOLID	5.90e01	6.55e+01 111.017 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14698

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005354	0 W	QIC-01	CL-02	SOLID	7.90e01	7.02e+01	88.861 % Recovery
6 SPK	S96T005354	0 W	QIC-01	NO2-02	SOLID	5.52e02	4.92e+02	89.130 % Recovery
6 SPK	S96T005354	0 W	QIC-01	BR-02	SOLID	5.89e02	5.32e+02	90.323 % Recovery
6 SPK	S96T005354	0 W	QIC-01	NO3-02	SOLID	5.94e02	5.91e+02	99.495 % Recovery
6 SPK	S96T005354	0 W	QIC-01	PO4-02	SOLID	5.44e02	4.37e+02	80.331 % Recovery
6 SPK	S96T005354	0 W	QIC-01	SO4-02	SOLID	6.31e02	5.95e+02	94.295 % Recovery
6 SPK	S96T005354	0 W	QIC-01	OXALATE2	SOLID	5.52e02	5.38e+02	97.464 % Recovery
7 SAMPLE	S96T005355	0 W	QIC-01	F-02	SOLID	N/A	5.435e+03	92.500 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	CL-02	SOLID	N/A	1.643e+03	131.100 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	NO2-02	SOLID	N/A	2.058e+04	832.700 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	BR-02	SOLID	N/A	9.637e+02	963.900 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	NO3-02	SOLID	N/A	2.194e+05	1072.000 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	PO4-02	SOLID	N/A	2.741e+03	925.000 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	SO4-02	SOLID	N/A	2.373e+04	1064.000 ug/g
7 SAMPLE	S96T005355	0 W	QIC-01	OXALATE2	SOLID	N/A	5.983e+03	809.300 ug/g
8 DUP	S96T005355	0 W	QIC-01	F-02	SOLID	5.44e+03	6.67e+03	20.314 RPD
8 DUP	S96T005355	0 W	QIC-01	CL-02	SOLID	1.64e+03	2.10e+03	24.599 RPD
8 DUP	S96T005355	0 W	QIC-01	NO2-02	SOLID	2.06e+04	2.62e+04	23.932 RPD
8 DUP	S96T005355	0 W	QIC-01	BR-02	SOLID	<9.64e2	<9.91e2	RPD
8 DUP	S96T005355	0 W	QIC-01	NO3-02	SOLID	2.19e+05	1.48e+05	38.692 RPD
8 DUP	S96T005355	0 W	QIC-01	PO4-02	SOLID	2.74e+03	1.77e+03	43.016 RPD
8 DUP	S96T005355	0 W	QIC-01	SO4-02	SOLID	2.37e+04	2.98e+04	22.804 RPD
8 DUP	S96T005355	0 W	QIC-01	OXALATE2	SOLID	5.98e+03	7.27e+03	19.472 RPD
9 SAMPLE	S96T005344	0 W	QIC-01	F-02	SOLID	N/A	6.745e+03	97.990 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	CL-02	SOLID	N/A	1.598e+03	136.800 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	NO2-02	SOLID	N/A	2.150e+04	881.900 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	BR-02	SOLID	N/A	1.021e+03	1021.000 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	NO3-02	SOLID	N/A	2.086e+05	1135.000 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	PO4-02	SOLID	N/A	1.037e+04	979.900 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	SO4-02	SOLID	N/A	2.322e+04	1127.000 ug/g
9 SAMPLE	S96T005344	0 W	QIC-01	OXALATE2	SOLID	N/A	1.795e+04	857.700 ug/g
10 DUP	S96T005344	0 W	QIC-01	F-02	SOLID	6.74e+03	7.79e+03	14.453 RPD
10 DUP	S96T005344	0 W	QIC-01	CL-02	SOLID	1.60e+03	1.43e+03	11.221 RPD
10 DUP	S96T005344	0 W	QIC-01	NO2-02	SOLID	2.15e+04	1.89e+04	12.871 RPD
10 DUP	S96T005344	0 W	QIC-01	BR-02	SOLID	<1.02e3	<9.84e2	RPD
10 DUP	S96T005344	0 W	QIC-01	NO3-02	SOLID	2.09e+05	1.82e+05	13.811 RPD
10 DUP	S96T005344	0 W	QIC-01	PO4-02	SOLID	1.04e+04	2.26e+04	73.939 RPD
10 DUP	S96T005344	0 W	QIC-01	SO4-02	SOLID	2.32e+04	2.27e+04	2.179 RPD
10 DUP	S96T005344	0 W	QIC-01	OXALATE2	SOLID	1.80e+04	1.66e+04	8.092 RPD

Final page for worklist# 14698

Analyst Signature

Date

Analyst Signature

Date

John M. Lyle 2/5/97
Reviewer Signature Date

LABCORE Data Entry Template for Worklist# 14698

Analyst: RDM Instrument: IC0 IC01 Book# 36222B

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005354 0 W		@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S96T005354 0 W		@IC-01	SOLID		
6 SPK	S96T005354 0 W		@IC-01	SOLID		
7 SAMPLE	S96T005355 0 W		@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S96T005355 0 W		@IC-01	SOLID		
9 SAMPLE	S96T005344 0 W		@IC-01	SOLID	96001336	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
10 DUP	S96T005344 0 W		@IC-01	SOLID		

Final page for worklist # 14698

See Original for Signature
Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

14698.jy. sch
14698.jy. csv reviewed 1/28/97 OKM/Spland
uploaded 2/5/97 JMF

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 14698

Analyst: RM Instrument: IC0 IC01 Book# 36N20B

Method: LA-533-105 Rev/Mod 0-1

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005354 0 W	@IC-01	SOLID		96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S96T005354 0 W	@IC-01	SOLID			
6 SPK	S96T005354 0 W	@IC-01	SOLID			
7 SAMPLE	S96T005355 0 W	@IC-01	SOLID		96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S96T005355 0 W	@IC-01	SOLID			
9 SPK	S96T005355 0 W	@IC-01	SOLID			
10 SAMPLE	S96T005344 0 W	@IC-01	SOLID		96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
11 DUP	S96T005344 0 W	@IC-01	SOLID			

Final page for worklist # 14698

RM 1/3/97
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				28-Jan-97			
Worklist#: 14698				Data File: 14698JY.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	97010231.d02	BLK		1.00	
	=>	2	CCV			2	97010231.d06	36N20-B		101.00	
	=>	3	BLNK-PREP			3	97010231.d07	PREP BLK		101.00	
	=>	4	SAMPLE	S96T005354		4	97010231.d09	S96T005354		101.00	
	=>	5	DUP	S96T005354		5	97010231.d10	S96T005354DUP		101.00	
	=>	6	SPK	S96T005354		6	97010231.d11	S96T005354SPK		101.00	
	=>	7	SAMPLE	S96T005355		4	97010231.d12	S96T005354		41.00	
	=>	8	DUP	S96T005355		5	97010231.d13	S96T005354DUP		41.00	
	=>	9	SAMPLE	S96T005344		7	97010231.d14	S96T005355		41.00	
	=>	10	DUP	S96T005344		8	97010231.d15	S96T005355DUP		41.00	
						9	97010231.d16	S96T005344		41.00	
						10	97010231.d17	S96T005344DUP		41.00	
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

Data Reprocessed On 01/28/1997 10:19:01

```

=====
Sample Name: BLK                               Date: 01/03/1997 07:17:56
Data File  : F:\DATA\97010231.d02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

Monastis fn RDM 4-23-97

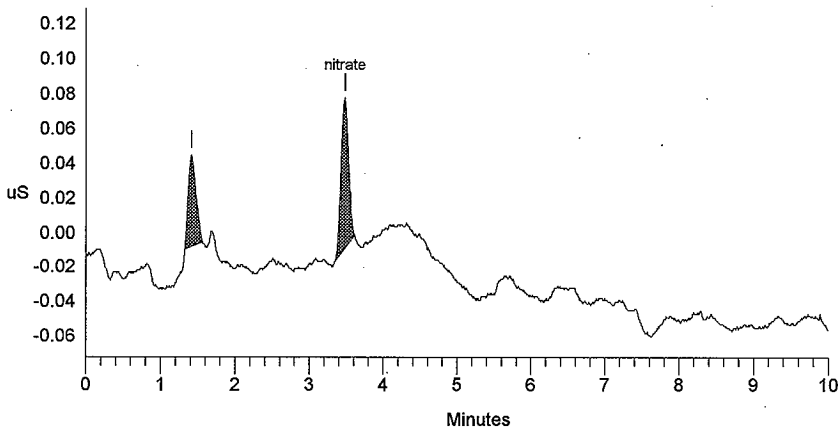
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          1    3000  5Hz    0.00  10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.41		0.000	53	380	1	
2	3.48	nitrate	0.071	87	612	1	-2.79
Totals			0.071	139	992		

File: 97010231.d02 Sample: BLK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 514 TO 528.

Data Reprocessed On 01/28/1997 10:19:02

```

=====
Sample Name: 36N20-B                               Date: 01/03/1997 08:16:26
Data File  : F:\DATA\97010231.d06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6                 Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000   5Hz    0.00  10.00          50
=====

```

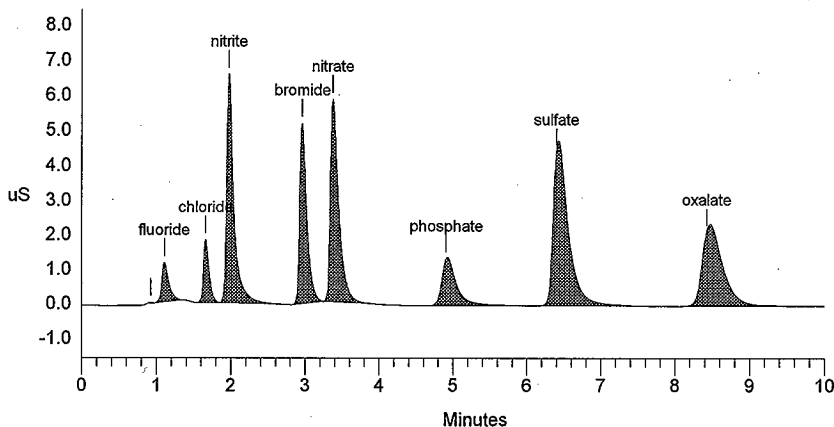
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***** Peak Report: All Peaks *****

```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	21	71	1	
2	1.11	fluoride	56.782	1139	7461	1	2.47
3	1.66	chloride	76.243	1821	9583	1	-0.40
4	1.97	nitrite	534.107	6561	44834	1	-2.95
5	2.96	bromide	599.338	5194	35054	1	0.00
6	3.37	nitrate	590.066	5826	46477	1	0.10
7	4.91	phosphate	487.901	1350	19401	1	-1.08
8	6.40	sulfate	635.827	4414	67480	1	-3.23
9	8.43	oxalate	588.823	2138	45125	1	-3.07
Totals			3569.088	28464	275486		

File: 97010231.d06 Sample: 36N20-B



Data Reprocessed On 01/28/1997 10:19:03

```

=====
Sample Name: PREP BLK                      Date: 01/03/1997 09:04:22
Data File  : F:\DATA\97010231.d07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7        Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

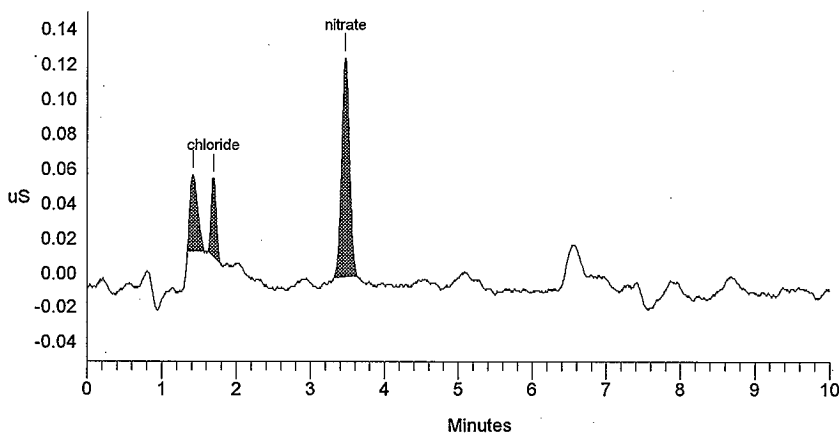
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.42		0.000	44	316	1	
2	1.69	chloride	2.175	45	219	1	1.60
3	3.47	nitrate	11.362	126	936	1	-3.17
Totals			13.537	215	1471		

File: 97010231.d07 Sample: PREP BLK

Data Reprocessed On 01/28/1997 10:19:03

```

=====
Sample Name: S96T005354                      Date: 01/03/1997 10:35:12
Data File  : F:\DATA\97010231.d09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

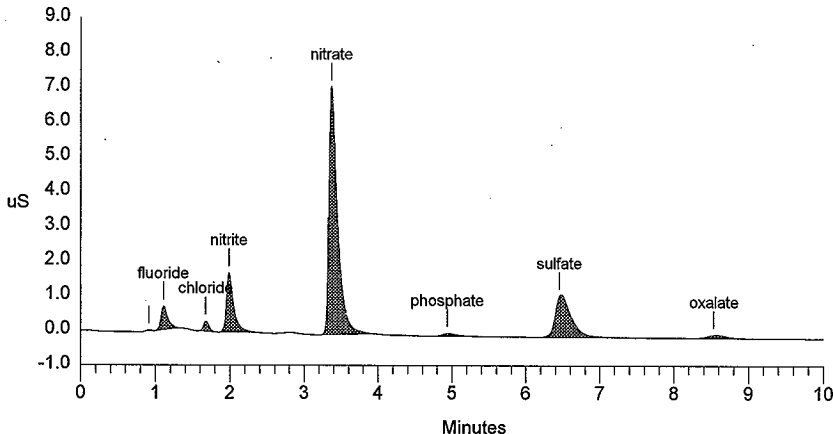
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	29	133	1	
2	1.11	fluoride	35.855	682	4424	1	2.47
3	1.67	chloride	12.683	299	1533	1	0.40
4	1.99	nitrite	153.359	1717	11913	1	-2.30
5	3.37	nitrate	741.657	7124	58616	1	-5.96
6	4.93	phosphate	50.412	84	1664	1	-0.54
7	6.45	sulfate	170.684	1178	18536	1	-2.42
8	8.53	oxalate	29.608	92	1801	1	-1.84
Totals			1194.258	11204	98620		

File: 97010231.d09 Sample: S96T005354



Data Reprocessed On 01/28/1997 10:19:04

```

=====
Sample Name: S96T005354DUP                      Date: 01/03/1997 10:49:37
Data File  : F:\DATA\97010231.d10
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10             Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

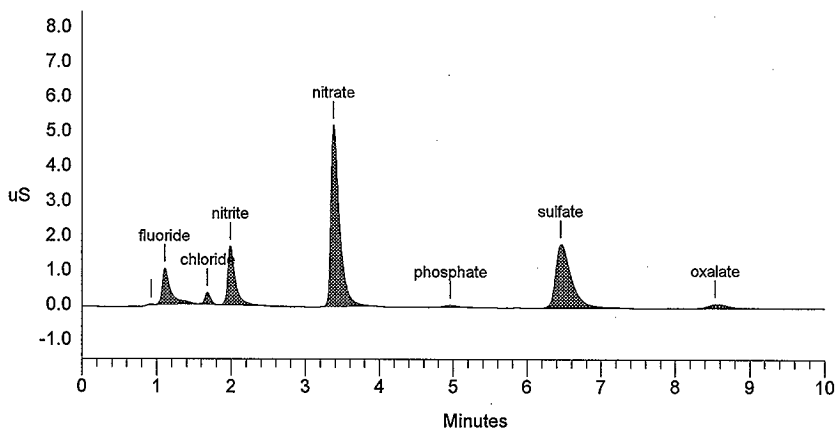
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	26	105	1	
2	1.11	fluoride	63.732	1040	8479	1	2.47
3	1.68	chloride	14.660	339	1781	1	0.80
4	1.99	nitrite	156.892	1701	12216	1	-2.30
5	3.38	nitrate	545.420	5220	42919	1	-5.59
6	4.96	phosphate	30.487	66	868	1	0.00
7	6.45	sulfate	259.844	1836	27813	1	-2.42
8	8.53	oxalate	37.147	118	2380	1	-1.84
Totals			1108.183	10345	96562		

File: 97010231.d10 Sample: S96T005354DUP



Data Reprocessed On 01/28/1997 10:19:04

```

=====
Sample Name: S96T005354SPK                      Date: 01/03/1997 11:04:58
Data File  : F:\DATA\97010231.d11
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11              Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

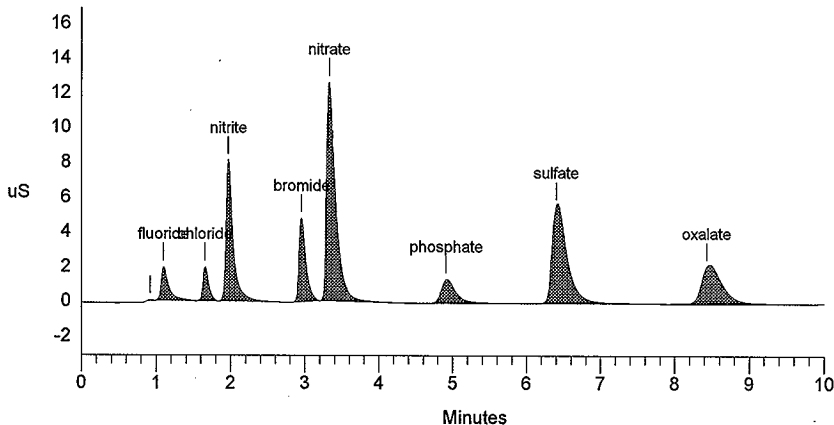
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	47	173	2	
2	1.10	fluoride	101.312	1955	14073	2	1.85
3	1.65	chloride	82.884	1960	10435	1	-0.80
4	1.97	nitrite	644.916	8094	54518	1	-3.28
5	2.95	bromide	531.805	4806	30966	1	0.11
6	3.33	nitrate	1332.941	12573	106849	1	-0.10
7	4.91	phosphate	487.344	1363	19378	1	-1.08
8	6.40	sulfate	765.411	5606	81362	1	-3.23
9	8.43	oxalate	567.657	2120	43470	1	-3.07
Totals			4514.272	38523	361225		

File: 97010231.d11 Sample: S96T005354SPK



Data Reprocessed On 01/28/1997 10:19:05

```

=====
Sample Name: S96T005354                      Date: 01/03/1997 11:20:06
Data File  : F:\DATA\97010231.d12
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

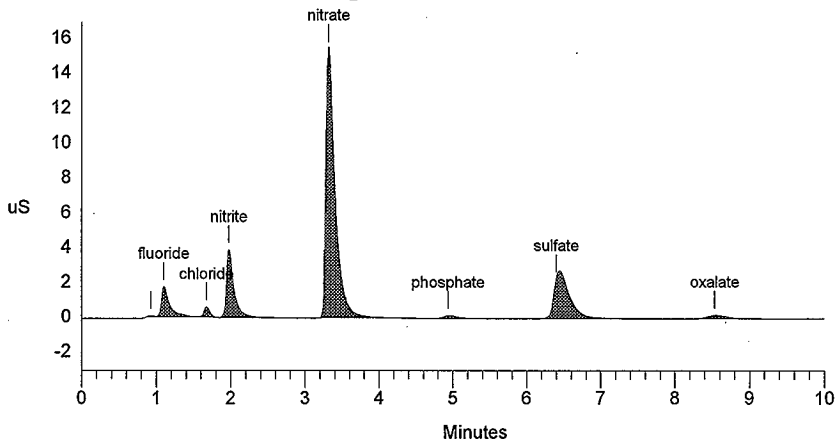
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          41    3000  5Hz    0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	57	237	2	
2	1.10	fluoride	38.480	1729	13092	2	1.85
3	1.67	chloride	10.429	595	3167	1	0.40
4	1.97	nitrite	134.063	3910	27140	1	-2.95
5	3.31	nitrate	683.230	15473	136114	1	0.10
6	4.93	phosphate	29.301	172	2536	1	-0.54
7	6.40	sulfate	153.222	2300	40125	1	-3.23
8	8.53	oxalate	24.653	208	4190	1	-1.84
Totals			1073.377	24444	226600		

File: 97010231.d12 Sample: S96T005354

Data Reprocessed On 01/28/1997 10:19:05

```

=====
Sample Name: S96T005354DUP                      Date: 01/03/1997 11:33:43
Data File  : F:\DATA\97010231.d13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13              Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

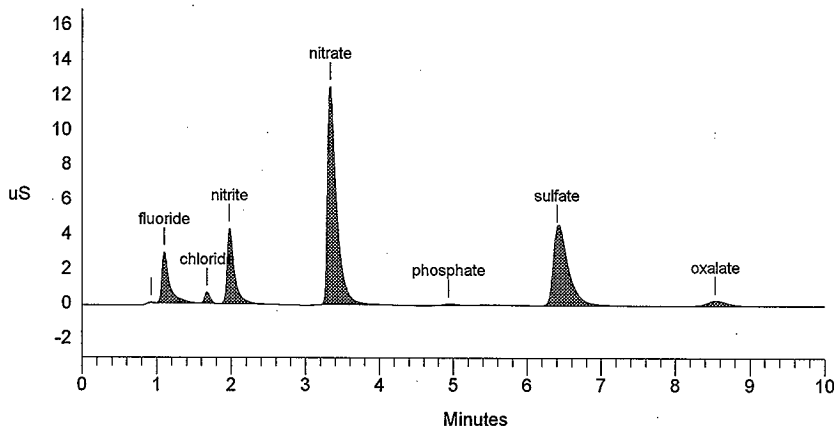
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000   5Hz   0.00 10.00          50
-----
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	67	282	2	
2	1.10	fluoride	59.060	2932	20851	2	1.85
3	1.67	chloride	11.209	655	3409	1	0.40
4	1.97	nitrite	148.360	4351	30186	1	-2.95
5	3.33	nitrate	546.079	12550	107866	1	-6.89
6	4.93	phosphate	16.210	108	1245	1	-0.54
7	6.40	sulfate	251.419	4413	65722	1	-3.23
8	8.53	oxalate	38.426	324	6798	1	-1.84
Totals			1070.763	25400	236359		

File: 97010231.d13 Sample: S96T005354DUP



Data Reprocessed On 01/28/1997 10:19:06

```

=====
Sample Name: S96T005355                      Date: 01/03/1997 13:27:21
Data File  : F:\DATA\97010231.d14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

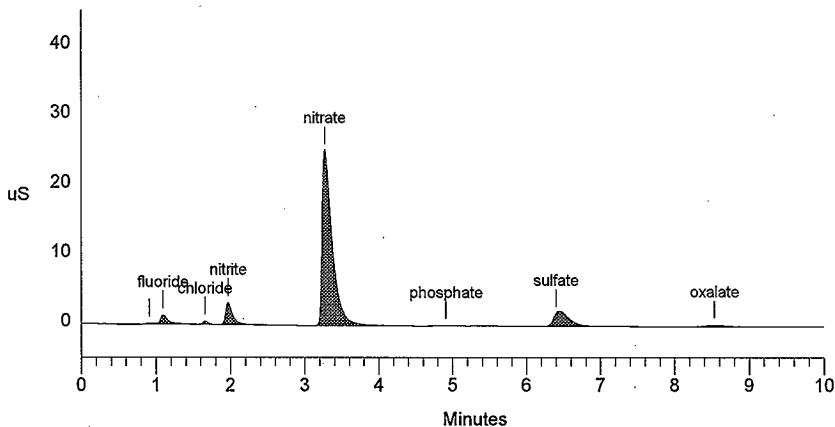
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	110	568	2	
2	1.09	fluoride	28.903	1320	9579	2	1.23
3	1.65	chloride	8.738	511	2643	1	-0.80
4	1.97	nitrite	109.439	3229	21906	1	-3.28
5	3.27	nitrate	1166.831	25141	240084	1	-0.10
6	4.91	phosphate	14.577	86	1085	1	-1.08
7	6.40	sulfate	126.192	1887	33144	1	-3.23
8	8.53	oxalate	31.816	261	5546	1	-1.84
Totals			1486.496	32546	314554		

File: 97010231.d14 Sample: S96T005355



Data Reprocessed On 01/28/1997 10:19:06

```

=====
Sample Name: S96T005355DUP                      Date: 01/03/1997 13:54:07
Data File  : F:\DATA\97010231.d15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15              Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====

```

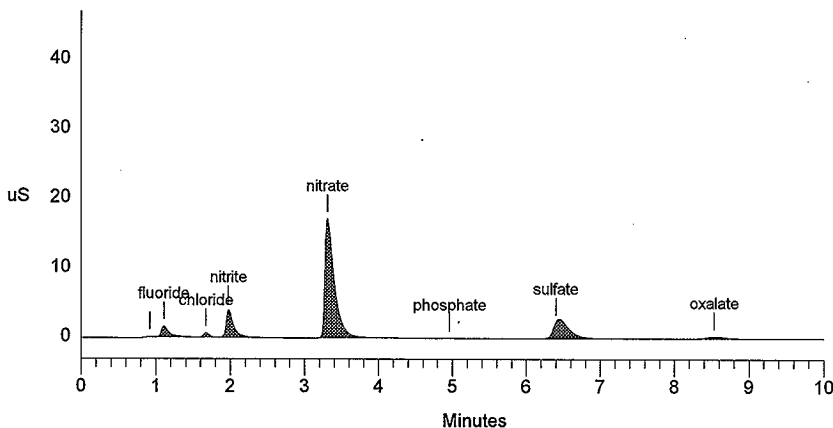
```

***** Peak Report: All Peaks *****

```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	72	329	2	
2	1.11	fluoride	34.463	1539	11611	2	2.47
3	1.67	chloride	10.847	618	3296	1	0.40
4	1.97	nitrite	135.516	3924	27450	1	-2.95
5	3.31	nitrate	767.032	17137	153629	1	-0.10
6	4.96	phosphate	9.168	35	552	1	0.00
7	6.40	sulfate	154.177	2324	40372	1	-3.23
8	8.53	oxalate	37.581	333	6638	1	-1.84
Totals			1148.785	25983	243877		

File: 97010231.d15 Sample: S96T005355DUP



Data Reprocessed On 01/28/1997 10:19:07

```

=====
Sample Name: S96T005344                      Date: 01/03/1997 14:11:49
Data File  : F:\DATA\97010231.d16
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          41    3000  5Hz    0.00 10.00          50
=====

```

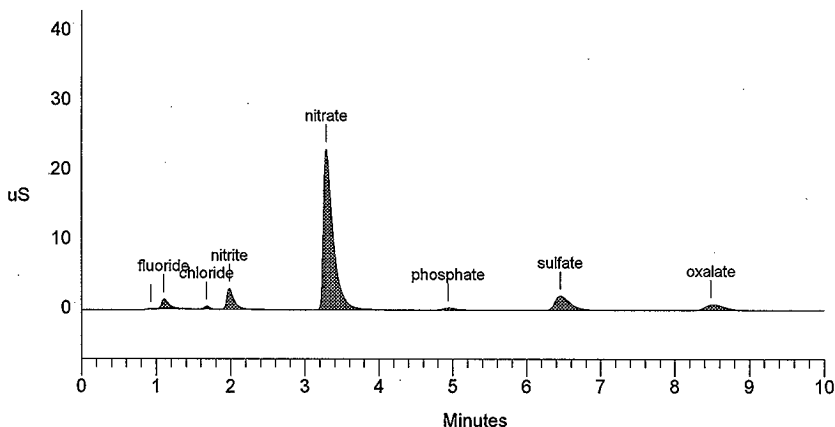
```

***** Peak Report: All Peaks *****

```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	57	228	2	
2	1.10	fluoride	33.859	1463	11389	2	1.85
3	1.67	chloride	8.023	454	2422	1	0.40
4	1.98	nitrite	107.933	3027	21586	1	-2.62
5	3.29	nitrate	1047.184	23165	213682	1	-0.10
6	4.93	phosphate	52.078	343	4787	1	-0.54
7	6.45	sulfate	116.552	2072	30661	1	-2.42
8	8.48	oxalate	90.112	830	16609	1	-2.45
Totals			1455.742	31411	301363		

File: 97010231.d16 Sample: S96T005344



Data Reprocessed On 01/28/1997 10:19:07

```

=====
Sample Name: S96T005344DUP                      Date: 01/03/1997 14:23:58
Data File  : F:\DATA\97010231.d17
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 17             Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

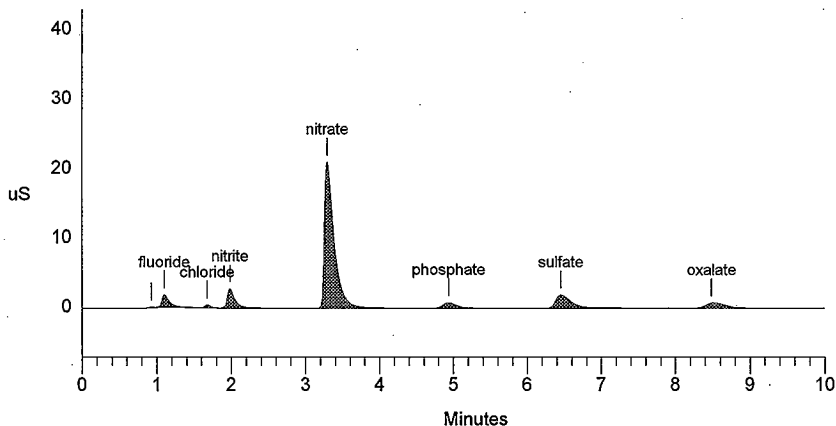
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          41    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	55	216	2	
2	1.10	fluoride	40.584	1857	13872	2	1.85
3	1.67	chloride	7.476	418	2253	1	0.40
4	1.98	nitrite	98.384	2760	19560	1	-2.62
5	3.29	nitrate	947.904	21046	192126	1	0.10
6	4.93	phosphate	117.966	818	11342	1	-0.54
7	6.45	sulfate	118.209	1938	31087	1	-2.42
8	8.48	oxalate	86.237	784	15872	1	-2.45
Totals			1416.761	29676	286327		

File: 97010231.d17 Sample: S96T005344DUP



LABCORE Completed Worklist Report for Worklist# 14699

Analyst: krq

Instrument: IC02

Book# 761205

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit	
1	CCB	0	QIC-QC	F	QC	1	<1.20e-2	ug/mL	
1	CCB	0	QIC-QC	CL	QC	1	<1.70e-2	ug/mL	
1	CCB	0	QIC-QC	NO2	QC	1	<1.08e-1	ug/mL	
1	CCB	0	QIC-QC	BR	QC	1	<1.25e-1	ug/mL	
1	CCB	0	QIC-QC	NO3	QC	1	<1.39e-1	ug/mL	
1	CCB	0	QIC-QC	PO4	QC	1	<1.20e-1	ug/mL	
1	CCB	0	QIC-QC	SO4	QC	1	<1.38e-1	ug/mL	
1	CCB	0	QIC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL	
2	CCV	0	QIC-QC	F	QC	5.90e01	6.14e+01	104.068 % Recovery	
2	CCV	0	QIC-QC	CL	QC	7.90e01	8.47e+01	107.215 % Recovery	
2	CCV	0	QIC-QC	NO2	QC	5.52e02	5.74e+02	103.986 % Recovery	
2	CCV	0	QIC-QC	BR	QC	5.89e02	6.07e+02	103.056 % Recovery	
2	CCV	0	QIC-QC	NO3	QC	5.94e02	6.19e+02	104.209 % Recovery	
2	CCV	0	QIC-QC	PO4	QC	5.44e02	5.57e+02	102.390 % Recovery	
2	CCV	0	QIC-QC	SO4	QC	6.31e02	6.59e+02	104.437 % Recovery	
2	CCV	0	QIC-QC	OXALATE2	QC	5.52e02	5.94e+02	107.609 % Recovery	
3	BLNK-PREP	0	QIC-01	F-02	SOLID	1	<1.20e-2	ug/g	
3	BLNK-PREP	0	QIC-01	CL-02	SOLID	1	<1.70e-2	ug/g	
3	BLNK-PREP	0	QIC-01	NO2-02	SOLID	1	<1.08e-1	ug/g	
3	BLNK-PREP	0	QIC-01	BR-02	SOLID	1	<1.25e-1	ug/g	
3	BLNK-PREP	0	QIC-01	NO3-02	SOLID	1	<1.39e-1	ug/g	
3	BLNK-PREP	0	QIC-01	PO4-02	SOLID	1	<1.20e-1	ug/g	
3	BLNK-PREP	0	QIC-01	SO4-02	SOLID	1	<1.38e-1	ug/g	
3	BLNK-PREP	0	QIC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g	
4	SAMPLE	S96T005389	0 W	QIC-01	F-02	SOLID	N/A	8.649e+03	45.470 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	CL-02	SOLID	N/A	2.968e+03	64.390 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	NO2-02	SOLID	N/A	3.633e+04	409.100 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	BR-02	SOLID	N/A	4.735e+02	473.600 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	NO3-02	SOLID	N/A	1.524e+05	526.500 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	PO4-02	SOLID	N/A	2.305e+03	454.600 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	SO4-02	SOLID	N/A	4.107e+04	522.700 ug/g
4	SAMPLE	S96T005389	0 W	QIC-01	OXALATE2	SOLID	N/A	1.343e+04	397.700 ug/g
5	DUP	S96T005389	0 W	QIC-01	F-02	SOLID	8.65e+03	8.65e+03	0.116 RPD
5	DUP	S96T005389	0 W	QIC-01	CL-02	SOLID	2.97e+03	2.74e+03	8.056 RPD
5	DUP	S96T005389	0 W	QIC-01	NO2-02	SOLID	3.63e+04	3.40e+04	6.543 RPD
5	DUP	S96T005389	0 W	QIC-01	BR-02	SOLID	<4.74e2	<4.70e2	RPD
5	DUP	S96T005389	0 W	QIC-01	NO3-02	SOLID	1.52e+05	1.53e+05	0.656 RPD
5	DUP	S96T005389	0 W	QIC-01	PO4-02	SOLID	2.30e+03	6.07e+03	90.084 RPD
5	DUP	S96T005389	0 W	QIC-01	SO4-02	SOLID	4.11e+04	4.39e+04	6.588 RPD
5	DUP	S96T005389	0 W	QIC-01	OXALATE2	SOLID	1.34e+04	1.27e+04	5.364 RPD
6	SPK	S96T005389	0 W	QIC-01	F-02	SOLID	5.90e01	6.15e+01	104.237 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 14699

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S96T005389	0 W	@IC-01 CL-02	SOLID	7.90e01	8.09e+01	102.405 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 NO2-02	SOLID	5.52e02	5.86e+02	106.159 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 BR-02	SOLID	5.89e02	5.96e+02	101.188 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 NO3-02	SOLID	5.94e02	6.65e+02	111.953 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 PO4-02	SOLID	5.44e02	5.32e+02	97.794 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 SO4-02	SOLID	6.31e02	6.93e+02	109.826 % Recovery	
6 SPK	S96T005389	0 W	@IC-01 OXALATE2	SOLID	5.52e02	5.91e+02	107.065 % Recovery	
7 SAMPLE	S96T005390	0 W	@IC-01 F-02	SOLID	N/A	2.859e+03	46.930 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 CL-02	SOLID	N/A	3.109e+03	66.510 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 NO2-02	SOLID	N/A	3.803e+04	422.500 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 BR-02	SOLID	N/A	4.890e+02	489.100 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 NO3-02	SOLID	N/A	9.646e+04	543.700 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 PO4-02	SOLID	N/A	4.203e+03	469.400 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 SO4-02	SOLID	N/A	2.084e+04	539.900 ug/g	
7 SAMPLE	S96T005390	0 W	@IC-01 OXALATE2	SOLID	N/A	1.151e+04	410.800 ug/g	
8 DUP	S96T005390	0 W	@IC-01 F-02	SOLID	2.86e+03	3.33e+03	15.186 RPD	
8 DUP	S96T005390	0 W	@IC-01 CL-02	SOLID	3.11e+03	2.95e+03	5.281 RPD	
8 DUP	S96T005390	0 W	@IC-01 NO2-02	SOLID	3.80e+04	3.62e+04	4.852 RPD	
8 DUP	S96T005390	0 W	@IC-01 BR-02	SOLID	<4.89e2	<4.82e2	RPD	
8 DUP	S96T005390	0 W	@IC-01 NO3-02	SOLID	9.65e+04	9.80e+04	1.542 RPD	
8 DUP	S96T005390	0 W	@IC-01 PO4-02	SOLID	4.20e+03	3.53e+03	17.335 RPD	
8 DUP	S96T005390	0 W	@IC-01 SO4-02	SOLID	2.08e+04	2.44e+04	15.929 RPD	
8 DUP	S96T005390	0 W	@IC-01 OXALATE2	SOLID	1.15e+04	1.32e+04	13.765 RPD	

Final page for worklist# 14699

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John M. Lye
Reviewer Signature _____ Date *1/15/97*

LABCORE Data Entry Template for Worklist# 14699

Analyst: APD Instrument: IC0 FC02 Book# 36W20-13

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 IC. RCJ

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005389 0 W		@IC-01	SOLID	96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S96T005389 0 W		@IC-01	SOLID		
6 SPK	S96T005389 0 W		@IC-01	SOLID		
7 SAMPLE	S96T005390 0 W		@IC-01	SOLID	96001336	BY-111
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S96T005390 0 W		@IC-01	SOLID		

Final page for worklist # 14699

Kathy B. B...
Analyst Signature

04/04/97
Date

Analyst Signature

Date

14699 ja csv

In shell

up to added 1/15/97 gmf

Validated 1/15/97 gmf

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				15-Jan-97	
Worklist#: 14699				Data File: 14699JA.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 97010391.d01	BLANK	1.00		
	=>	2 CCV			2 97010381.d12	CCV 36N20-B	101.00		
	=>	3 BLNK-PREP			3 97010391.d05	BLANK PREP 14699	1.00		
	=>	4 SAMPLE	S96T005389		4 97010391.d12	S96T005389 SAMPL	21.00		
	=>	5 DUP	S96T005389		5 97010381.d13	S96T005389 DUP	21.00		
	=>	6 SPK	S96T005389		6 97010381.d14	S96T005389 SPIKE	21.00		
	=>	7 SAMPLE	S96T005390		7 97010381.d15	S96T005390 SAMPL	21.00		
	=>	8 DUP	S96T005390		8 97010381.d16	S96T005390 DUP	21.00		
+				+					

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

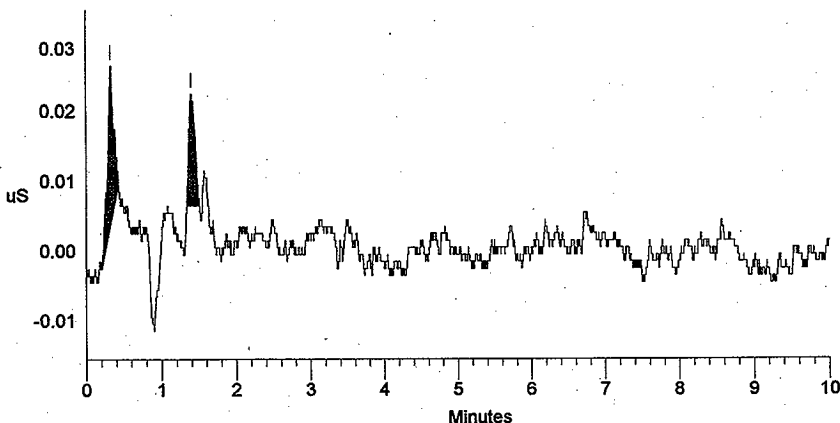
Sample Name: BLANK Date: 01/04/1997 00:17:42
 Data File : C:\DX\DATA\97010391.D01
 Method : C:\DX\METHOD\ANIONSA.MET.
 ACI Address: System: 1 Inject#: 1 Detector: CDM-1
 Analyst: Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.33		0.000	23	127	1	
2	1.40		0.000	16	88	1	
Totals			0.000	39	215		

File: 97010391.D01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 530 TO 537.

Sample Name: CCV 36N20-B Date: 01/03/1997 22:18:03
Data File : C:\DX\DATA\97010381.D12
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
Analyst: Column:

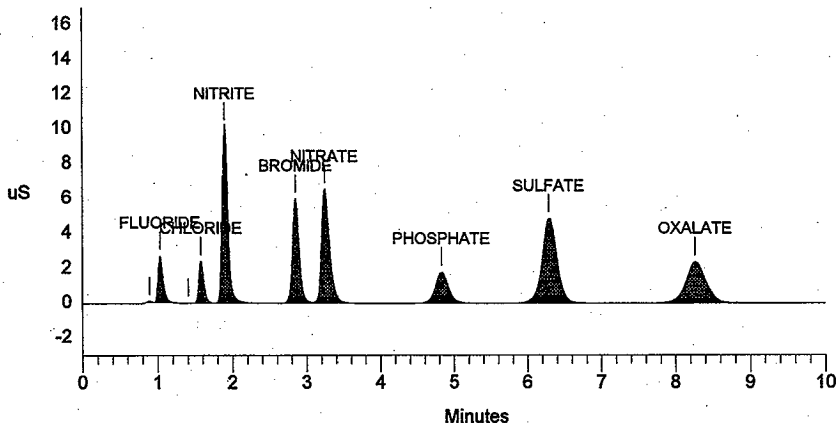
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	60	253	2	
2	1.04	FLUORIDE	61.399	2647	11867	2	-1.27
3	1.41		0.000	10	51	2	
4	1.58	CHLORIDE	84.748	2380	11130	2	-0.21
5	1.90	NITRITE	573.811	10143	53711	2	-1.22
6	2.85	BROMIDE	606.799	5981	37086	2	-2.40
7	3.24	NITRATE	618.786	6516	49007	2	-3.76
8	4.83	PHOSPHATE	557.396	1781	21683	1	-3.78
9	6.29	SULFATE	658.662	4831	67178	1	-4.70
10	8.26	OXALATE	593.656	2359	43838	1	-4.69
Totals			3755.258	36709	295805		

File: 97010381.D12 Sample: CCV 36N20-B



2097 140

Sample Name: BLANK PREP 14699 Date: 01/04/1997 01:08:17
Data File : C:\DX\DATA\97010391.D05
Method : C:\DX\METHOD\ANIONSA.MET.
ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
Analyst *[Signature]* Column:

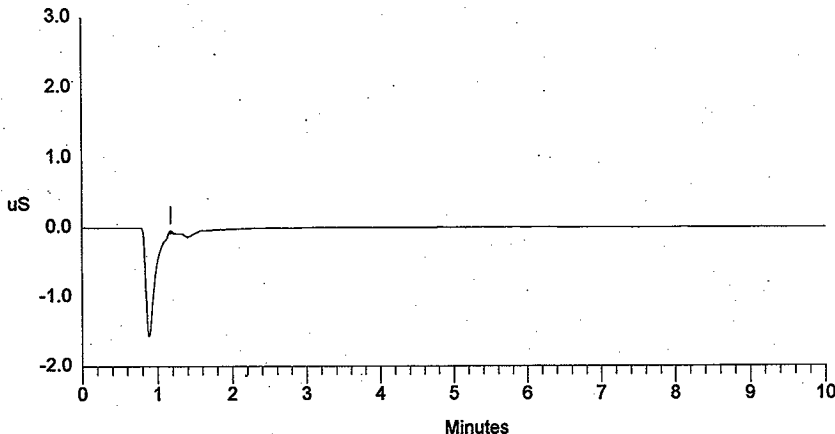
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1:18		0.000	44	123	1	
Totals			0.000	44	123		

File: 97010391.D05 Sample: BLANK PREP 14699



```

=====
Sample Name: S96T005389 SAMPLE                      Date: 01/04/1997 02:36:50
Data File  : E:\DATA\97010391.D12
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 12
Analyst    :                               Detector: CDM-1
Column:
=====
  
```

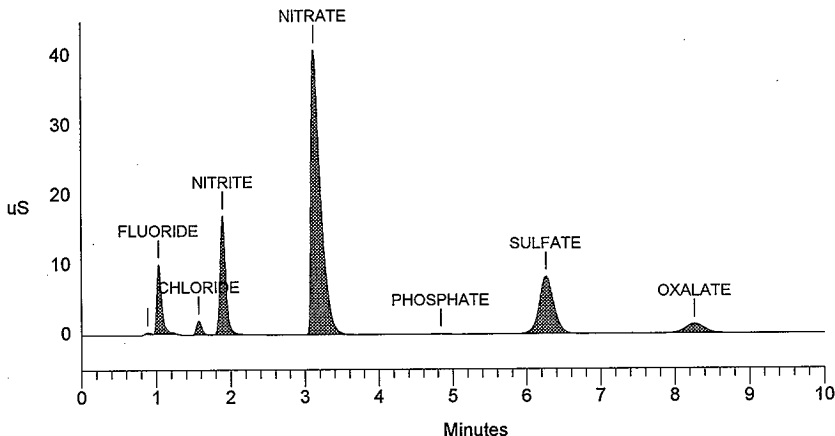
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000   5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	260	1159	2	
2	1.04	FLUORIDE	47.950	9986	46634	2	-1.27
3	1.57	CHLORIDE	16.452	2075	10377	1	-0.63
4	1.90	NITRITE	201.417	17104	92048	1	-1.22
5	3.12	NITRATE	844.652	40919	370461	1	0.11
6	4.84	PHOSPHATE	12.777	159	1918	1	-3.65
7	6.26	SULFATE	227.697	8272	113826	1	-5.10
8	8.26	OXALATE	74.443	1392	26118	1	-4.69
Totals			1425.388	80166	662541		

File: 97010391.D12 Sample: S96T005389 SAMPLE



Data Reprocessed On 01/15/1997 10:40:26

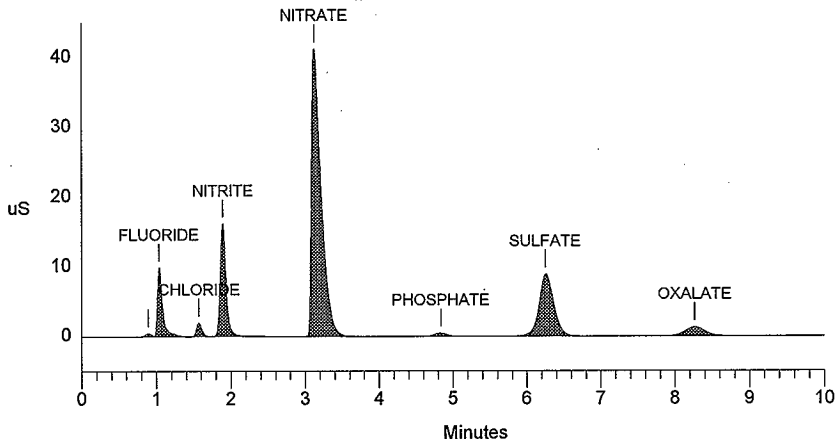
Sample Name: S96T005389 DUP Date: 01/04/1997 02:49:28
 Data File : E:\DATA\97010381.D13
 Method : C:\DX\METHOD\ANIONSA.MET
 ACI Address: 1 System: 1 Inject#: 13 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.89		0.000	405	2127	2	
2	1.04	FLUORIDE	48.363	9774	47056	2	-1.27
3	1.57	CHLORIDE	15.327	1968	9653	1	-0.63
4	1.89	NITRITE	189.984	16100	86675	1	-1.56
5	3.12	NITRATE	853.062	41276	374821	1	0.11
6	4.84	PHOSPHATE	33.905	484	5914	1	-3.65
7	6.25	SULFATE	245.320	8945	123050	1	-5.30
8	8.26	OXALATE	70.644	1325	24753	1	-4.69
Totals			1456.606	80276	674049		

File: 97010381.D13 Sample: S96T005389 DUP



Data Reprocessed On 01/15/1997 10:42:10

```

=====
Sample Name: S96T005389 SPIKE                      Date: 01/04/1997 03:02:08
Data File  : E:\DATA\97010381.D14
Method     : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 14
Analyst    :                               Column:
=====
  
```

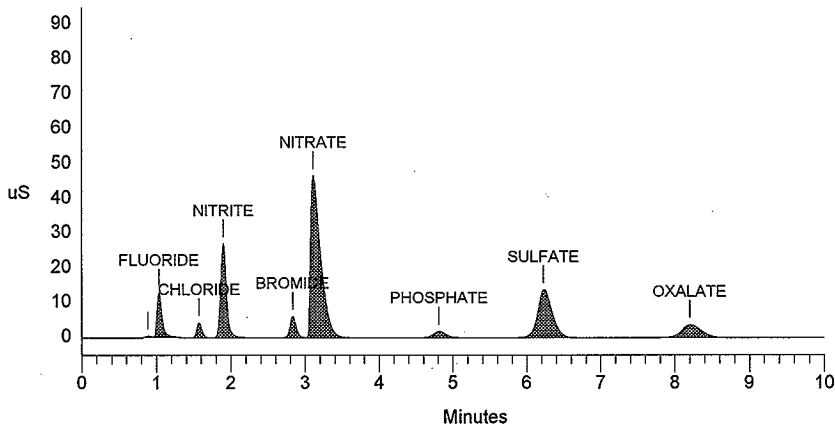
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          21    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	321	1448	2	
2	1.04	FLUORIDE	60.253	12610	59325	2	-1.27
3	1.57	CHLORIDE	32.631	4260	20941	2	-0.63
4	1.90	NITRITE	318.612	27113	147770	2	-1.22
5	2.83	BROMIDE	119.143	6096	34936	2	-3.08
6	3.11	NITRATE	977.693	46635	441685	2	0.00
7	4.81	PHOSPHATE	119.229	1847	22333	1	-4.18
8	6.22	SULFATE	366.274	13793	187922	1	-5.71
9	8.20	OXALATE	192.651	3695	69218	1	-5.46
Totals			2186.486	116371	985579		

File: 97010381.D14 Sample: S96T005389 SPIKE



Data Reprocessed On 01/15/1997 10:45:33

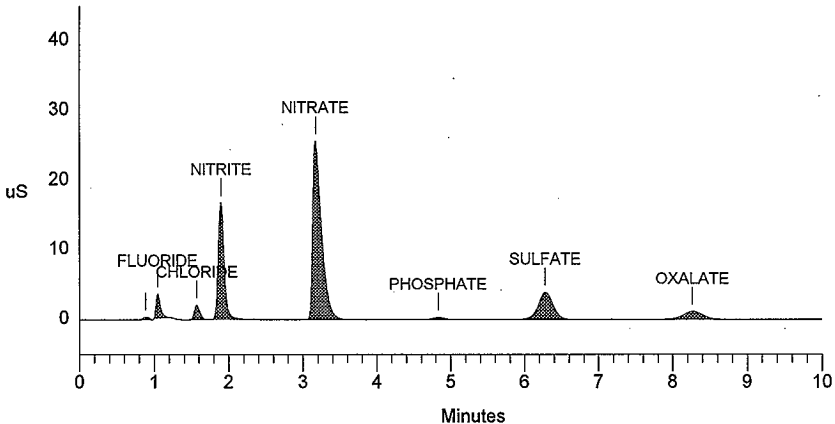
Sample Name: S96T005390 SAMPLE Date: 01/04/1997 03:14:47
Data File : E:\DATA\97010381.D15
Method : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 15 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	403	2256	1	
2	1.04	FLUORIDE	15.347	3451	14346	1	-0.63
3	1.57	CHLORIDE	16.689	2080	10529	2	-0.63
4	1.90	NITRITE	204.128	16828	93323	2	-1.22
5	3.17	NITRATE	517.791	25700	213101	1	0.00
6	4.83	PHOSPHATE	22.564	317	3766	1	-3.78
7	6.28	SULFATE	111.885	3920	54534	1	-4.90
8	8.26	OXALATE	61.776	1163	21569	1	-4.69
Totals			950.180	53862	413424		

File: 97010381.D15 Sample: S96T005390 SAMPLE



Data Reprocessed On 01/15/1997 10:47:20

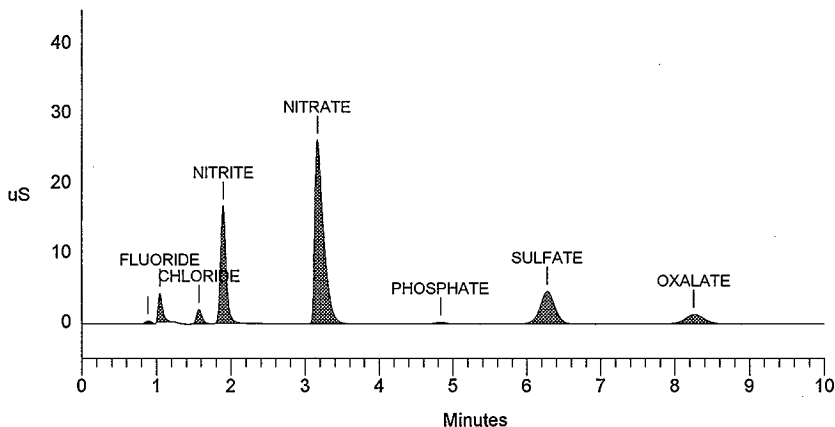
Sample Name: S96T005390 DUP Date: 01/04/1997 03:27:25
Data File : E:\DATA\97010381.D16
Method : C:\DX\METHOD\ANIONSA.MET
ACI Address: 1 System: 1 Inject#: 16 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	422	2469	1	
2	1.04	FLUORIDE	18.153	4119	17054	1	-0.63
3	1.57	CHLORIDE	16.038	2026	10110	1	-0.63
4	1.90	NITRITE	197.048	16807	89994	1	-1.22
5	3.16	NITRATE	533.619	26278	220248	1	0.11
6	4.83	PHOSPHATE	19.200	263	3130	1	-3.78
7	6.28	SULFATE	132.791	4665	65073	1	-4.90
8	8.25	OXALATE	71.749	1344	25150	1	-4.84
Totals			988.597	55923	433227		

File: 97010381.D16 Sample: S96T005390 DUP



LABCORE Completed Worklist Report for Worklist# 15162

Analyst: eal

Instrument: IC01

Book# 36N208

Method: LA533105 Rev/Mod D-1

Worklist Comment: Rerun By111 ic use 5151 df.jmf

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	01C-QC	F	QC	1	<1.20e-2	ug/mL
1 CCB	0	0	01C-QC	CL	QC	1	<1.70e-2	ug/mL
1 CCB	0	0	01C-QC	NO2	QC	1	<1.08e-1	ug/mL
1 CCB	0	0	01C-QC	BR	QC	1	<1.25e-1	ug/mL
1 CCB	0	0	01C-QC	NO3	QC	1	<1.39e-1	ug/mL
1 CCB	0	0	01C-QC	P04	QC	1	<1.20e-1	ug/mL
1 CCB	0	0	01C-QC	S04	QC	1	<1.38e-1	ug/mL
1 CCB	0	0	01C-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2 CCV	0	0	01C-QC	F	QC	5.90e01	5.63e+01	95.424 % Recovery
2 CCV	0	0	01C-QC	CL	QC	7.90e01	7.60e+01	96.203 % Recovery
2 CCV	0	0	01C-QC	NO2	QC	5.52e02	5.27e+02	95.471 % Recovery
2 CCV	0	0	01C-QC	BR	QC	5.89e02	5.71e+02	96.944 % Recovery
2 CCV	0	0	01C-QC	NO3	QC	5.94e02	5.95e+02	100.168 % Recovery
2 CCV	0	0	01C-QC	P04	QC	5.44e02	5.41e+02	99.449 % Recovery
2 CCV	0	0	01C-QC	S04	QC	6.31e02	6.52e+02	103.328 % Recovery
2 CCV	0	0	01C-QC	OXALATE2	QC	5.52e02	5.71e+02	103.442 % Recovery
3 SAMPLE	S96T004945	0	01C-01	F-02	LIQUID	N/A	< 6.181e-01	61.810 ug/mL
3 SAMPLE	S96T004945	0	01C-01	CL-02	LIQUID	N/A	< 9.331e+01	87.570 ug/mL
3 SAMPLE	S96T004945	0	01C-01	NO2-02	LIQUID	N/A	< 5.563e+02	556.300 ug/mL
3 SAMPLE	S96T004945	0	01C-01	BR-02	LIQUID	N/A	< 2.156e+04	643.900 ug/mL
3 SAMPLE	S96T004945	0	01C-01	NO3-02	LIQUID	N/A	< 7.160e+02	716.000 ug/mL
3 SAMPLE	S96T004945	0	01C-01	P04-02	LIQUID	N/A	< 6.181e+02	618.100 ug/mL
3 SAMPLE	S96T004945	0	01C-01	S04-02	LIQUID	N/A	< 7.108e+02	710.800 ug/mL
3 SAMPLE	S96T004945	0	01C-01	OXALATE2	LIQUID	N/A	< 5.409e+02	540.900 ug/mL
4 DUP	S96T004945	0	01C-01	F-02	LIQUID	<6.18e1	<6.18e1	RPD
4 DUP	S96T004945	0	01C-01	CL-02	LIQUID	9.33e+01	<8.76e1	RPD
4 DUP	S96T004945	0	01C-01	NO2-02	LIQUID	<5.56e2	<5.56e2	RPD
4 DUP	S96T004945	0	01C-01	BR-02	LIQUID	2.16e+04	2.12e+04	1.869 RPD
4 DUP	S96T004945	0	01C-01	NO3-02	LIQUID	<7.16e2	<7.16e2	RPD
4 DUP	S96T004945	0	01C-01	P04-02	LIQUID	<6.18e2	<6.18e2	RPD
4 DUP	S96T004945	0	01C-01	S04-02	LIQUID	<7.11e2	<7.11e2	RPD
4 DUP	S96T004945	0	01C-01	OXALATE2	LIQUID	<5.41e2	<5.41e2	RPD
5 SPK	S96T004945	0	01C-01	F-02	LIQUID	5.90e01	5.52e+01	93.559 % Recovery
5 SPK	S96T004945	0	01C-01	CL-02	LIQUID	7.90e01	7.53e+01	95.316 % Recovery
5 SPK	S96T004945	0	01C-01	NO2-02	LIQUID	5.52e02	5.30e+02	96.014 % Recovery
5 SPK	S96T004945	0	01C-01	BR-02	LIQUID	5.89e02	5.83e+02	98.981 % Recovery
5 SPK	S96T004945	0	01C-01	NO3-02	LIQUID	5.94e02	5.94e+02	100.000 % Recovery
5 SPK	S96T004945	0	01C-01	P04-02	LIQUID	5.44e02	5.48e+02	100.735 % Recovery
5 SPK	S96T004945	0	01C-01	S04-02	LIQUID	6.31e02	6.37e+02	100.951 % Recovery
5 SPK	S96T004945	0	01C-01	OXALATE2	LIQUID	5.52e02	5.73e+02	103.804 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 15162

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
-----	------	---------	---	---	------	--------	--------	-------	-------------	------

Final page for worklist# 15162

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

H. Anastos

12-24-96

Reviewer Signature

Date

Validated

LABCORE Data Entry Template for Worklist# 15162

Analyst: EA Instrument: IC0 1 Book# 36N20-B

Method: LA-533-105 Rev/Mod D.1

Worklist Comment: Rerun By111 ic use 5151 df.jmf

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T004945 0		@IC-01	LIQUID	96001257	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
4 DUP	S96T004945 0		@IC-01	LIQUID		
5 SPK	S96T004945 0		@IC-01	LIQUID		

Final page for worklist # 15162

A. Lambel 12.26.96
Analyst Signature Date

Analyst Signature Date

15162DC: CSV - in shell
uploaded 12.26.96 Hla

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				26-Dec-96	
Worklist#: 15162				Data File: 15162DC.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96122201.d09	INST. BLANK	1.00	
	=>	2	CCV			96122201.d10	36N20-B STD.	101.00	
	=>	3	SAMPLE		2	96122201.d11	36N20-B STD.	101.00	
	=>	4	DUP		3	96122201.d12	S96T004945	5151.00	
	=>	5	SPK		4	96122201.d13	S96T004945 DUP	5151.00	
					5	96122201.d14	S96T004945 SPIKE	5151.00	
+				+					

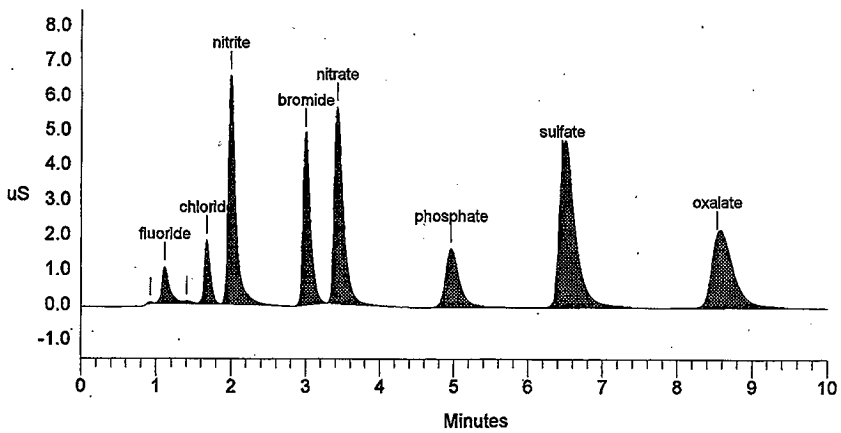
Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Sample Name: 36N20-B STD. Date: 12/22/1996 16:10:29
Data File : C:\DX\DATA\96122201.D11
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst : *A. Jambor* Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 101 3000 5Hz 0.00 10.00 50
***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	37	139	2	
2	1.11	fluoride	56.318	1037	7393	3	3.09
3	1.41		0.000	58	423	4	
4	1.67	chloride	75.977	1813	9549	1	0.40
5	1.99	nitrite	527.181	6558	44230	1	-1.97
6	2.99	bromide	570.613	4937	33313	1	-3.75
7	3.42	nitrate	594.766	5639	46852	1	-4.47
8	4.96	phosphate	541.106	1657	21592	1	0.00
9	6.45	sulfate	651.617	4103	69165	1	-2.42
10	8.53	oxalate	571.242	2087	43750	1	-1.84
Totals			3588.819	27925	276407		

File: 96122201.D11 Sample: 36N20-B STD.



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 542 TO 547.

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=====
Sample Name: 36N20-B STD.                               Date: 12/22/1996 15:57:57
Data File  : C:\DX\DATA\96122201.D10
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10                     Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

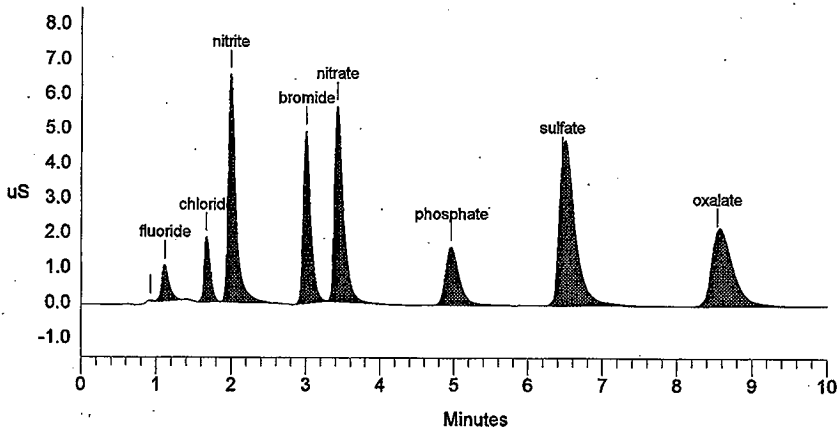
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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	34	123	1	
2	1.11	fluoride	51.877	1011	6745	1	3.09
3	1.67	chloride	79.626	1839	10017	1	0.00
4	1.99	nitrite	536.943	6531	45081	1	-2.30
5	3.00	bromide	567.594	4943	33130	1	-3.54
6	3.42	nitrate	581.691	5599	45809	1	-4.47
7	4.96	phosphate	530.255	1655	21145	1	0.00
8	6.45	sulfate	644.915	4155	68450	1	-2.42
9	8.53	oxalate	560.254	2098	42891	1	-1.84
Totals			3553.155	27864	273390		

File: 96122201.D10 Sample: 36N20-B STD.



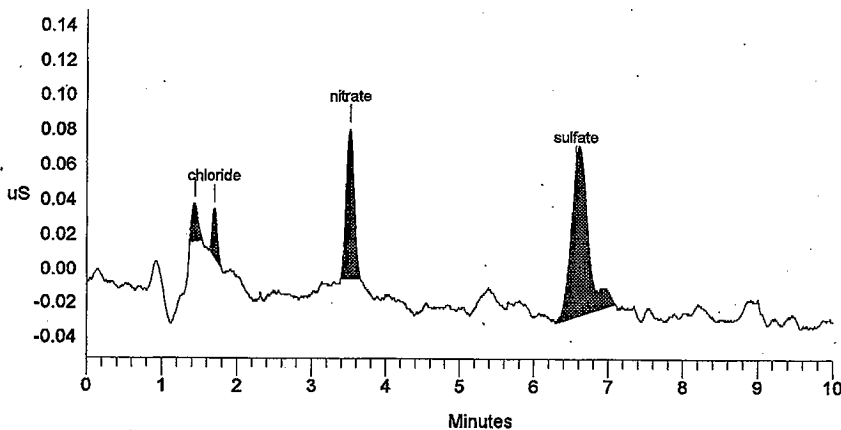
Sample Name: INST. BLANK Date: 12/22/1996 15:45:01
Data File : C:\DX\DATA\96122201.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.44		0.000	22	124	1	
2	1.70	chloride	0.014	28	130	1	2.00
3	3.52	nitrate	0.073	86	627	1	-1.68
4	6.56	sulfate	0.057	84	1505	1	-0.81
Totals			0.145	220	2385		

File: 96122201.D09 Sample: INST. BLANK



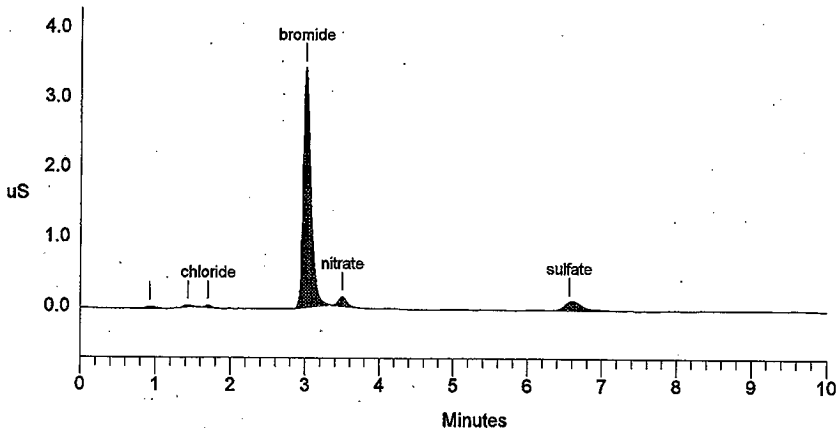
Sample Name: S96T004945 Date: 12/22/1996 16:23:31
 Data File : C:\DX\DATA\96122201.D12
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	5151	3000	5Hz	0.00	10.00	50	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	27	220	1	
2	1.43		0.000	36	264	1	
3	1.70	chloride	93.314	36	176	1	2.00
4	3.00	bromide	21564.544	3443	24407	1	-3.54
5	3.50	nitrate	603.385	134	972	1	-2.23
6	6.56	sulfate	632.476	122	2184	1	-0.81
Totals			22893.719	3797	28223		

File: 96122201.D12 Sample: S96T004945



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=====
Sample Name: S96T004945 DUP                      Date: 12/22/1996 16:35:27
Data File  : C:\DX\DATA\96122201.D13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13              Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

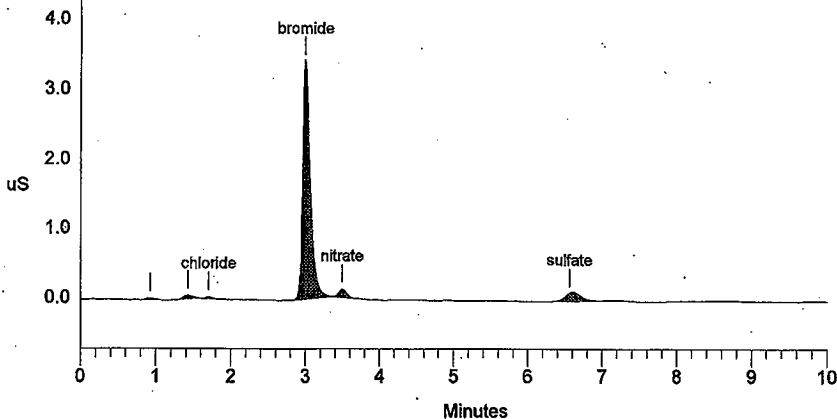
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          5151   3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	23	181	1	
2	1.43		0.000	51	402	1	
3	1.70	chloride	74.644	27	130	1	2.00
4	2.99	bromide	21176.919	3415	23951	1	-3.75
5	3.49	nitrate	500.512	114	816	1	-2.42
6	6.56	sulfate	486.321	115	1889	1	-0.81
Totals			22238.396	3745	27369		

File: 96122201.D13 Sample: S96T004945 DUP



Data Reprocessed On 12/26/1996 09:06:46

```

=====
Sample Name: S96T004945 SPIKE                      Date: 12/22/1996 16:48:21
Data File  : F:\DATA\96122201.D14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14                Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column
=====
  
```

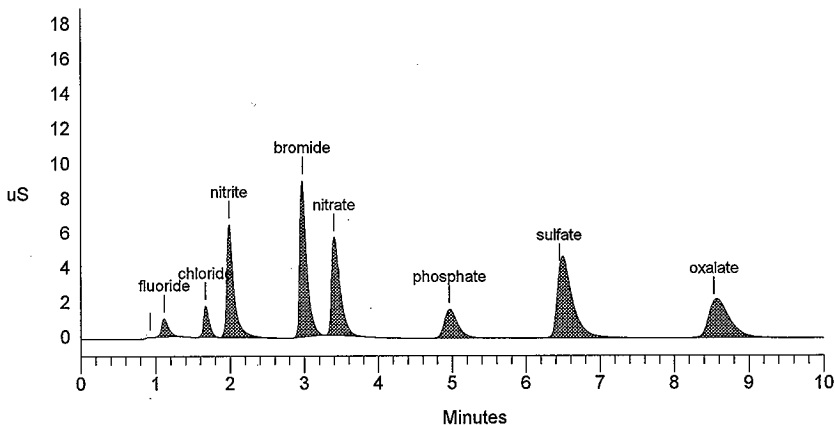
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          5151   3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.93		0.000	26	88	1	
2	1.11	fluoride	2787.851	1062	7151	1	3.09
3	1.67	chloride	3895.211	1788	9601	1	0.00
4	1.99	nitrite	26773.564	6486	44037	1	-2.30
5	2.97	bromide	51028.988	9020	59722	1	0.11
6	3.40	nitrate	29987.695	5653	46312	1	-5.03
7	4.96	phosphate	27662.909	1660	21646	1	0.00
8	6.45	sulfate	32162.608	4032	66926	1	-2.42
9	8.53	oxalate	28956.069	2114	43478	1	-1.84
Totals			203254.896	31842	298962		

File: 96122201.D14 Sample: S96T004945 SPIKE



LABCORE Completed Worklist Report for Worklist# 16117

Analyst: eal

Instrument: IC01

Book# 36N20D

Method: LA-S33-105 Rev/Mod D-1

Worklist Comment: BY-111 Rerun for IC Try a 41 DF.

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	01C-QC	F	QC	1	<1.20e-2	ug/mL
1 CCB	0	0	01C-QC	CL	QC	1	<1.70e-2	ug/mL
1 CCB	0	0	01C-QC	NO2	QC	1	<1.08e-1	ug/mL
1 CCB	0	0	01C-QC	BR	QC	1	<1.25e-1	ug/mL
1 CCB	0	0	01C-QC	NO3	QC	1	<1.39e-1	ug/mL
1 CCB	0	0	01C-QC	PO4	QC	1	<1.20e-1	ug/mL
1 CCB	0	0	01C-QC	SO4	QC	1	<1.38e-1	ug/mL
1 CCB	0	0	01C-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2 CCV	0	0	01C-QC	F	QC	5.9000e1	6.10e+01	103.390 % Recovery
2 CCV	0	0	01C-QC	CL	QC	7.9000e1	7.80e+01	98.734 % Recovery
2 CCV	0	0	01C-QC	NO2	QC	5.4200e2	5.99e+02	110.517 % Recovery
2 CCV	0	0	01C-QC	BR	QC	5.8900e2	5.95e+02	101.019 % Recovery
2 CCV	0	0	01C-QC	NO3	QC	5.9400e2	6.16e+02	103.704 % Recovery
2 CCV	0	0	01C-QC	PO4	QC	5.4400e2	5.68e+02	104.412 % Recovery
2 CCV	0	0	01C-QC	SO4	QC	6.2100e2	6.64e+02	105.230 % Recovery
2 CCV	0	0	01C-QC	OXALATE2	QC	5.3300e2	5.45e+02	102.251 % Recovery
3 BLNK-PREP	0	0	01C-01	F-02	SOLID	1	<1.20e-2	ug/g
3 BLNK-PREP	0	0	01C-01	CL-02	SOLID	1	<1.70e-2	ug/g
3 BLNK-PREP	0	0	01C-01	NO2-02	SOLID	1	<1.08e-1	ug/g
3 BLNK-PREP	0	0	01C-01	BR-02	SOLID	1	<1.25e-1	ug/g
3 BLNK-PREP	0	0	01C-01	NO3-02	SOLID	1	<1.39e-1	ug/g
3 BLNK-PREP	0	0	01C-01	PO4-02	SOLID	1	<1.20e-1	ug/g
3 BLNK-PREP	0	0	01C-01	SO4-02	SOLID	1	<1.38e-1	ug/g
3 BLNK-PREP	0	0	01C-01	OXALATE2	SOLID	1	<1.05e-1	ug/g
4 SAMPLE	S96T005308	0 W	01C-01	F-02	SOLID	N/A	9.445e+03	91.600 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	CL-02	SOLID	N/A	9.845e+02	130.100 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	BR-02	SOLID	N/A	9.562e+02	956.100 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	NO3-02	SOLID	N/A	2.451e+05	1063.000 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	PO4-02	SOLID	N/A	1.144e+04	918.000 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	SO4-02	SOLID	N/A	3.827e+04	1056.000 ug/g
4 SAMPLE	S96T005308	0 W	01C-01	OXALATE2	SOLID	N/A	2.132e+04	803.200 ug/g
5 DUP	S96T005308	0 W	01C-01	F-02	SOLID	9.44e+03	9.57e+03	1.368 RPD
5 DUP	S96T005308	0 W	01C-01	CL-02	SOLID	9.84e+02	1.08e+03	9.302 RPD
5 DUP	S96T005308	0 W	01C-01	NO2-02	SOLID	1.62e+04	1.65e+04	1.835 RPD
5 DUP	S96T005308	0 W	01C-01	BR-02	SOLID	<9.56e2	<9.77e2	RPD
5 DUP	S96T005308	0 W	01C-01	NO3-02	SOLID	2.45e+05	2.48e+05	1.217 RPD
5 DUP	S96T005308	0 W	01C-01	PO4-02	SOLID	1.14e+04	1.20e+04	5.128 RPD
5 DUP	S96T005308	0 W	01C-01	SO4-02	SOLID	3.83e+04	4.02e+04	4.841 RPD
5 DUP	S96T005308	0 W	01C-01	OXALATE2	SOLID	2.13e+04	2.28e+04	6.803 RPD
6 SPK	S96T005308	0 W	01C-01	F-02	SOLID	5.9000e1	6.22e+01	105.424 % Recovery
6 SPK	S96T005308	0 W	01C-01	CL-02	SOLID	7.9000e1	7.64e+01	96.709 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 16117

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S96T005308	0	W	@IC-01	NO2-02	SOLID	5.4200e2	6.02e+02	111.070 % Recovery
6	SPK	S96T005308	0	W	@IC-01	BR-02	SOLID	5.8900e2	5.53e+02	93.888 % Recovery
6	SPK	S96T005308	0	W	@IC-01	NO3-02	SOLID	5.2400e2	5.61e+02	94.444 % Recovery
6	SPK	S96T005308	0	W	@IC-01	PO4-02	SOLID	5.4400e2	5.38e+02	98.897 % Recovery
6	SPK	S96T005308	0	W	@IC-01	SO4-02	SOLID	6.3100e2	6.95e+02	110.143 % Recovery
6	SPK	S96T005308	0	W	@IC-01	OXALATE2	SOLID	5.3300e2	5.56e+02	104.315 % Recovery

Comments Section:

Comments for sample# S96T005308 and test @IC-01 .

~~Sample will be rerun due to multiple RPD failures. hla 1/10 JMF 1/28/97~~
~~-97-~~

Final page for worklist# 16117

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Jane Faye 1/28/97
Reviewer Signature _____ Date _____

01/10/97 11:06
A-0004-1

LABCORE Data Entry Template for Worklist# 16117

Analyst: EAL Instrument: IC0 IC01 Book# 36N20-DMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: BY-111 Rerun for IC Try a 41 DF. Original WL# 14696

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S96T005308 0 W		@IC-01	SOLID	96001257	BY-111
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
4 DUP	S96T005308 0 W		@IC-01	SOLID		
5 SPK	S96T005308 0 W		@IC-01	SOLID		

Final page for worklist # 16117

A Lambel 01-21-97
 Analyst Signature Date

 Analyst Signature Date

16117.ja.csv

Uploaded 1/28/97 Jm Faye - NO₂ CCV failed so NO₂ will be
 rerun.

Validated except NO₂ out for rerun on WKL 16394

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				28-Jan-97					
Worklist#: 16117				Data File: 16117JA.CSV									
		Seq	Type	Sample #		Seq#		Data File		Sample Name		Dilution	
-	=>	1	CCB			-	1	97012111.d03	INST. BLANK				1.00
	=>	2	CCV				2	97012111.d04	36N20-D STD.				101.00
	=>	3	BLNK-PREP				3	97012111.d05	PREP. BLANK				1.00
	=>	4	SAMPLE	S96T005308			4	97012111.d06	S96T005308				41.00
	=>	5	DUP	S96T005308			5	97012111.d07	S96T005308 DUP				41.00
	=>	6	SPK	S96T005308			6	97012111.d08	S96T005308 SPIKE				41.00
+						+							

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

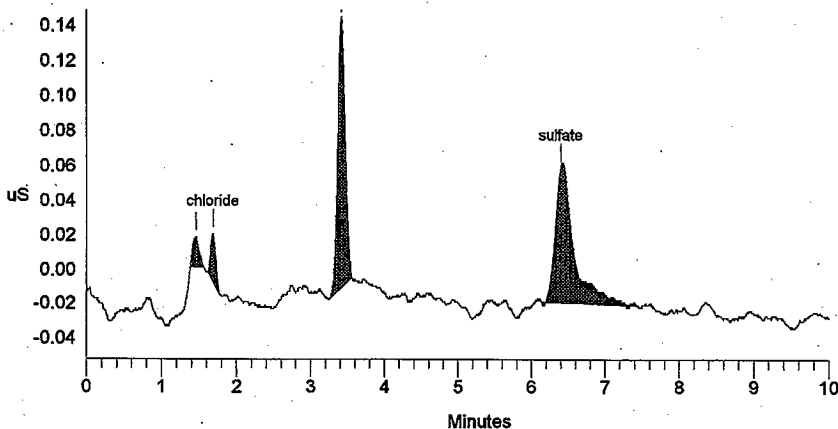
Sample Name: INST. BLANK Date: 01/21/1997 22:40:44
 Data File : C:\DX\DATA\97012111.D03
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.46		0.000	17	101	1	
2	1.69	chloride	-0.001	28	133	1	4.12
3	3.41		0.000	154	1094	1	
4	6.40	sulfate	-0.045	77	1382	1	5.26
Totals			-0.046	276	2709		

File: 97012111.D03 Sample: INST. BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ~~552~~ TO ~~557~~.

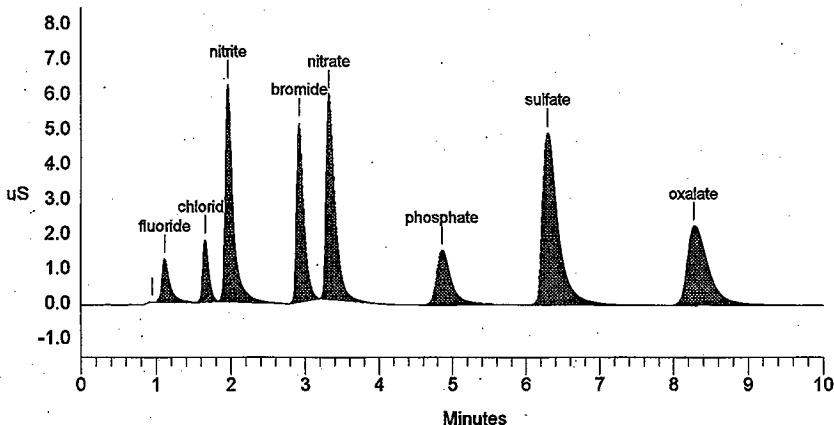
Sample Name: 36N20-D STD. Date: 01/21/1997 22:59:03
 Data File : C:\DX\DATA\97012111.D04
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 4 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.11	fluoride	61.019	1247	9135	2	3.09
3	1.65	chloride	78.017	1787	9572	1	2.06
4	1.96	nitrite	598.744	6203	43730	1	0.00
5	2.92	bromide	594.867	5143	34286	1	2.82
6	3.32	nitrate	615.519	5867	47916	1	5.06
7	4.85	phosphate	567.960	1566	21818	1	2.82
8	6.29	sulfate	664.127	4939	71837	1	3.51
9	8.27	oxalate	545.205	2262	43999	1	4.03
Totals			3725.457	29013	282294		

File: 97012111.D04 Sample: 36N20-D STD.



=====

Sample Name: PREP. BLANK	Date: 01/21/1997 23:10:04
Data File : C:\DX\DATA\97012111.D05	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 5	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

=====

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
-------------	--------	----------	--------	------	-------	------	------	--------

=====

External	1	1	3000	5Hz	0.00	10.00		50
----------	---	---	------	-----	------	-------	--	----

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
---------	----------	----------------	---------------------	--------	------	----------	--------

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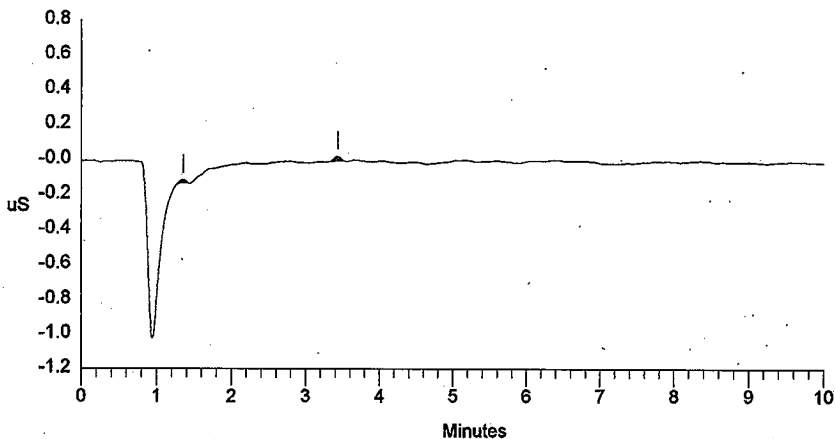
1	1.35		0.000	22	118	1	
2	3.43		0.000	29	174	1	

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Totals			0.000	51	292		
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File: 97012111.D05 Sample: PREP. BLANK



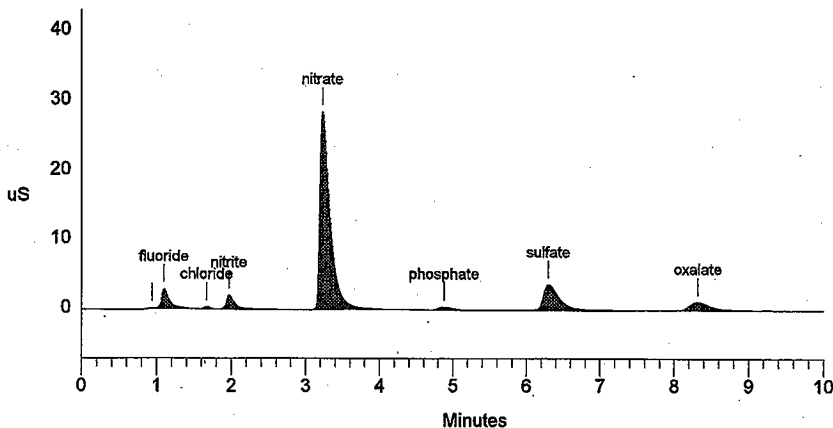
Sample Name: S96T005308 Date: 01/21/1997 23:25:38
 Data File : C:\DX\DATA\97012111.D06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 41 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.94		0.000	26	83	2	
2	1.10	fluoride	50.624	2797	19541	2	1.85
3	1.67	chloride	5.277	296	1691	1	2.88
4	1.97	nitrite	86.664	2010	14973	1	0.34
5	3.23	nitrate	1313.771	28412	274281	1	2.11
6	4.88	phosphate	61.317	411	5688	1	3.39
7	6.29	sulfate	205.146	3671	54824	1	3.51
8	8.32	oxalate	114.292	1191	22590	1	4.70
Totals			1837.091	38813	393672		

File: 97012111.D06 Sample: S96T005308



Sample Name: S96T005308 DUP Date: 01/21/1997 23:37:13
 Data File : C:\DX\DATA\97012111.D07
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

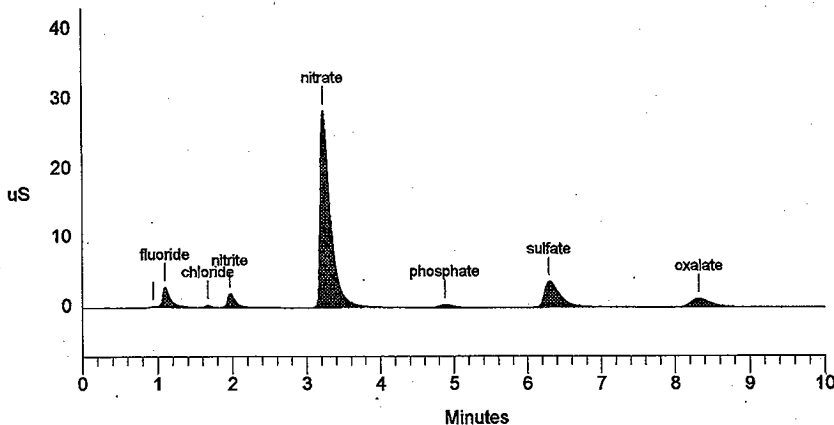
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 41 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.94		0.000	27	79	2	
2	1.10	fluoride	50.247	2790	19386	2	1.85
3	1.67	chloride	5.655	315	1802	1	3.29
4	1.97	nitrite	86.561	2006	14955	1	0.34
5	3.23	nitrate	1300.089	28375	271067	1	2.11
6	4.88	phosphate	63.111	414	5857	1	3.39
7	6.29	sulfate	210.752	3653	56297	1	3.51
8	8.32	oxalate	119.864	1198	23700	1	4.70
Totals			1836.278	38778	393142		

File: 97012111.D07 Sample: S96T005308 DUP



=====

Sample Name: S96T005308 SPIKE	Date: 01/21/1997 23:48:38
Data File : C:\DX\DATA\97012111.D08	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 8	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

=====

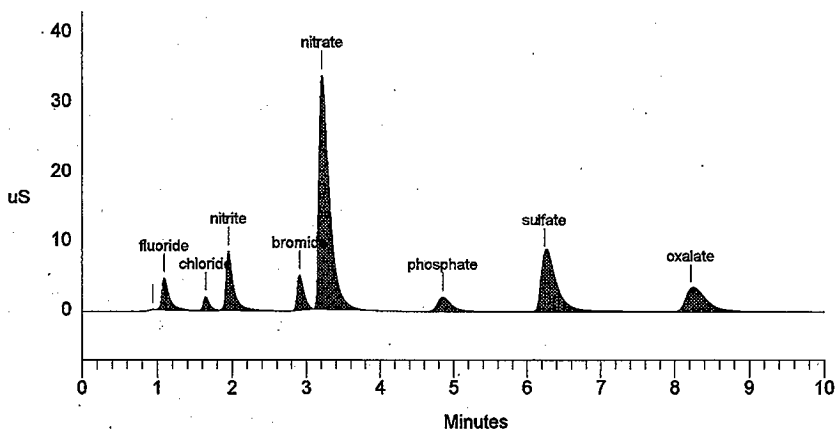
----- Calibration Volume Dilution Points Rate Start Stop Area Reject -----

External 1 41 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.94		0.000	40	123	2	
2	1.09	fluoride	75.515	4506	30007	2	1.23
3	1.65	chloride	35.830	1953	10836	1	1.65
4	1.95	nitrite	327.495	8479	59520	1	-0.34
5	2.91	bromide	221.109	5015	31301	1	2.58
6	3.21	nitrate	1538.247	33567	328456	1	1.69
7	4.85	phosphate	276.494	2011	26281	1	2.82
8	6.24	sulfate	483.177	8445	129592	1	2.63
9	8.21	oxalate	336.664	3300	67320	1	3.36
Totals			3294.530	67317	683436		

File: 97012111.D08 Sample: S96T005308 SPIKE



HNF SD-WM-DP-203, REV. 0
LABCORE Completed Worklist Report for Worklist# 16394

Analyst: pjm

Instrument: IC02

Book# 421220A

Method: 1A-533-105 Rev/Mod D-1

Worklist Comment: Rerun NO2 use 41 df for by-111.jmf

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit	
1	CCB	0	@IC-QC	F	QC	1	<1.20e-2	ug/mL	
1	CCB	0	@IC-QC	CL	QC	1	<1.70e-2	ug/mL	
1	CCB	0	@IC-QC	NO2	QC	1	<1.08e-1	ug/mL	
1	CCB	0	@IC-QC	BR	QC	1	<1.25e-1	ug/mL	
1	CCB	0	@IC-QC	NO3	QC	1	<1.39e-1	ug/mL	
1	CCB	0	@IC-QC	PO4	QC	1	<1.20e-1	ug/mL	
1	CCB	0	@IC-QC	SO4	QC	1	<1.38e-1	ug/mL	
1	CCB	0	@IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL	
2	CCV	0	@IC-QC	F	QC	5.900e1	5.85e+01	99.153 % Recovery	
2	CCV	0	@IC-QC	CL	QC	7.900e1	7.63e+01	96.582 % Recovery	
2	CCV	0	@IC-QC	NO2	QC	5.420e2	5.55e+02	102.399 % Recovery	
2	CCV	0	@IC-QC	BR	QC	5.890e2	5.38e+02	91.341 % Recovery	
2	CCV	0	@IC-QC	NO3	QC	5.940e2	5.44e+02	91.582 % Recovery	
2	CCV	0	@IC-QC	PO4	QC	5.440e2	5.22e+02	95.956 % Recovery	
2	CCV	0	@IC-QC	SO4	QC	5.310e2	5.98e+02	94.770 % Recovery	
2	CCV	0	@IC-QC	OXALATE2	QC	5.240e2	5.01e+02	95.611 % Recovery	
3	BLNK-PREP	0	@IC-01	F-02	SOLID	1	<1.20e-2	ug/g	
3	BLNK-PREP	0	@IC-01	CL-02	SOLID	1	<1.70e-2	ug/g	
3	BLNK-PREP	0	@IC-01	NO2-02	SOLID	1	<1.08e-1	ug/g	
3	BLNK-PREP	0	@IC-01	BR-02	SOLID	1	<1.25e-1	ug/g	
3	BLNK-PREP	0	@IC-01	NO3-02	SOLID	1	<1.39e-1	ug/g	
3	BLNK-PREP	0	@IC-01	PO4-02	SOLID	1	<1.20e-1	ug/g	
3	BLNK-PREP	0	@IC-01	SO4-02	SOLID	1	<1.38e-1	ug/g	
3	BLNK-PREP	0	@IC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g	
4	SAMPLE	S96T005308	0 W	@IC-01	NO2-02	SOLID	N/A	1.623e+04	826.100 ug/g
5	DDP	S96T005308	0 W	@IC-01	NO2-02	SOLID	1.62e+04	1.84e+04	12.717 RPD
6	SPK	S96T005308	0 W	@IC-01	NO2-02	SOLID	5.420e2	5.72e+02	105.535 % Recovery

Comments Section:

Comments for sample# S96T005308 and test @IC-01

Sample will be rerun due to multiple RPD failures. hla 1/10

197 → Jmf 2/12/97

Final page for worklist# 16394

Analyst Signature

Date

Juan Lye 2/12/97

Analyst Signature

Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 16394

Analyst: BLM Instrument: IC0 IC02 Book# 42120A
Method: LA-533-105 Rev/Mod D-1 4500 sgs-1

Worklist Comment: Rerun NO2 use 41 df for by-111.jmf

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 BLNK-PREP			@IC-01	SOLID		
4 SAMPLE	S96T005308 0 W		@IC-01	SOLID	96001257	BY-111
	Analytes Requested: NO2-02					
5 DUP	S96T005308 0 W		@IC-01	SOLID		
6 SPK	S96T005308 0 W		@IC-01	SOLID		

Final page for worklist # 16394

BLM 1/31/97
Analyst Signature Date

Analyst Signature Date

16394 ja.csv

UPLOADED 2-12-97

BLM

Validated 2/12/97 GM

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				12-Feb-97			
Worklist#: 16394				Data File: 16394JA.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB	S96T005308 S96T005308 S96T005308	-	1	97013121.d03	CCB		1.00	
	=>	2	CCV			2	97013121.d02	CCV 42N20A		101.00	
	=>	3	BLNK-PREP			3	97013121.d04	PREP BLK		1.00	
	=>	4	SAMPLE			4	97013121.d05	S96TOO5308		41.00	
	=>	5	DUP			5	97013121.d06	S96TOO5308	DUP	41.00	
	=>	6	SPK			6	97013121.d07	S96TOO5308	SPK	41.00	
+					+						

Save (F4) Abort (Shift-F3) ListFiles (Shift-F1) UploadFile (F8)

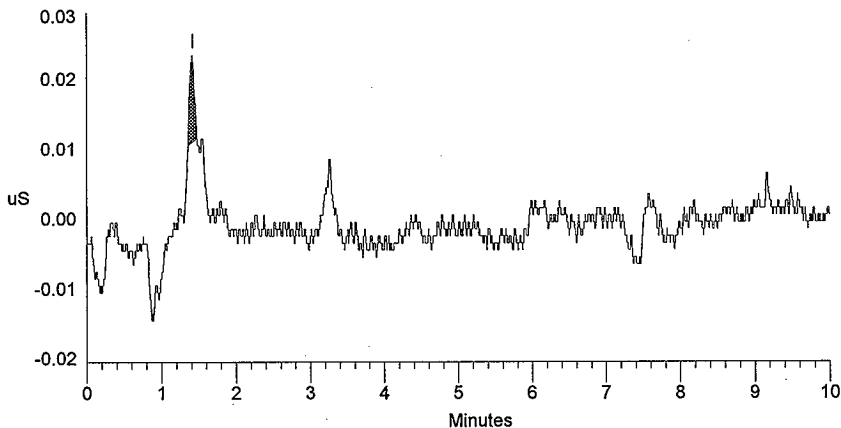
Sample Name: CCB Date: 01/31/1997 02:29:10
 Data File : E:\DATA\97013121.d03
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : *QMF* Column:

Calibration Volume *for QM 2/1/97* Dilution Points Rate Start Stop Area Reject
 External 1 1 3000 5Hz 0.00 10.00 50

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.42		0.000	13	55		1
Totals			0.000	13	55		

File: 97013121.d03 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 561 TO 564.

Data Reprocessed On 02/12/1997 13:41:03

```

=====
Sample Name: CCV 42N20A                      Date: 01/31/1997 02:05:32
Data File  : E:\DATA\97013121.d02
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst    :                               Column:
=====
  
```

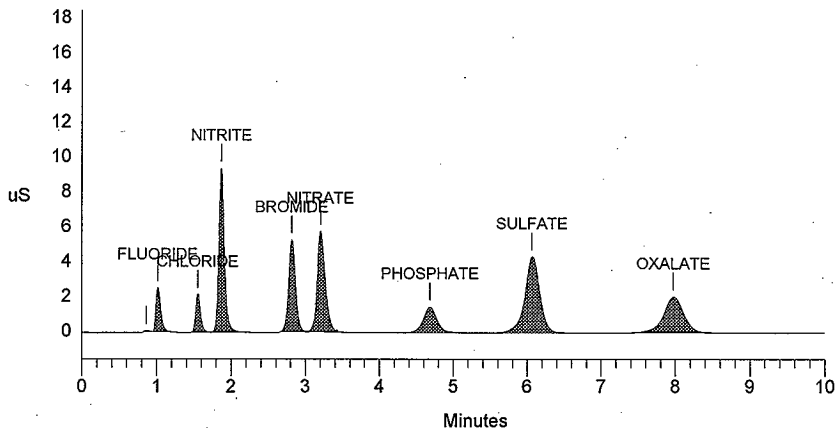
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1          101    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	78	335	2	
2	1.02	FLUORIDE	58.524	2537	11403	2	-0.33
3	1.55	CHLORIDE	76.318	2179	9985	1	-0.85
4	1.87	NITRITE	555.012	9394	48081	1	-1.75
5	2.82	BROMIDE	538.246	5270	33588	2	1.44
6	3.20	NITRATE	544.116	5797	43920	2	3.67
7	4.68	PHOSPHATE	521.690	1493	19302	1	0.93
8	6.06	SULFATE	598.281	4374	61560	1	-1.09
9	7.97	OXALATE	500.775	2081	39231	1	-0.50
Totals			3392.962	33202	267404		

File: 97013121.d02 Sample: CCV 42N20A



Data Reprocessed On 02/12/1997 13:41:04

```

=====
Sample Name: PREP BLK                      Date: 01/31/1997 02:44:22
Data File  : E:\DATA\97013121.d04
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 4
Analyst    :                               Column:
Detector: CDM-1
=====

```

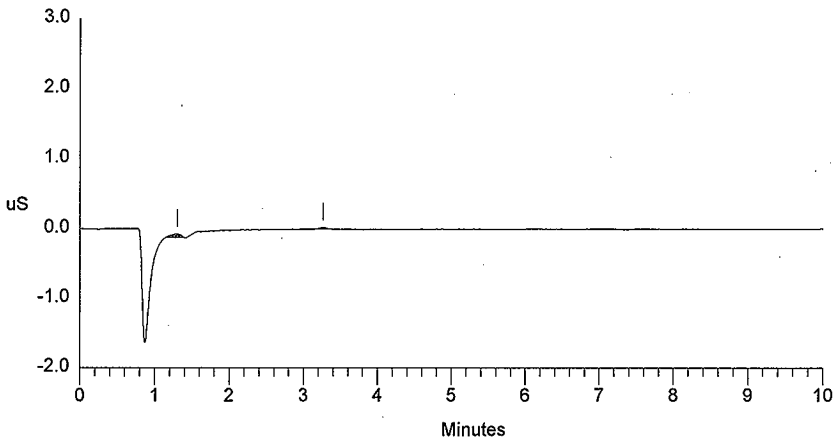
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1           1    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.30		0.000	54	530	1	
2	3.26		0.000	21	108	1	
Totals			0.000	75	638		

File: 97013121.d04 Sample: PREP BLK

Data Reprocessed On 02/12/1997 13:41:05

```

=====
Sample Name: S96TOO5308                      Date: 01/31/1997 02:58:32
Data File  : E:\DATA\97013121.d05
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst    :                               Column:
=====

```

```

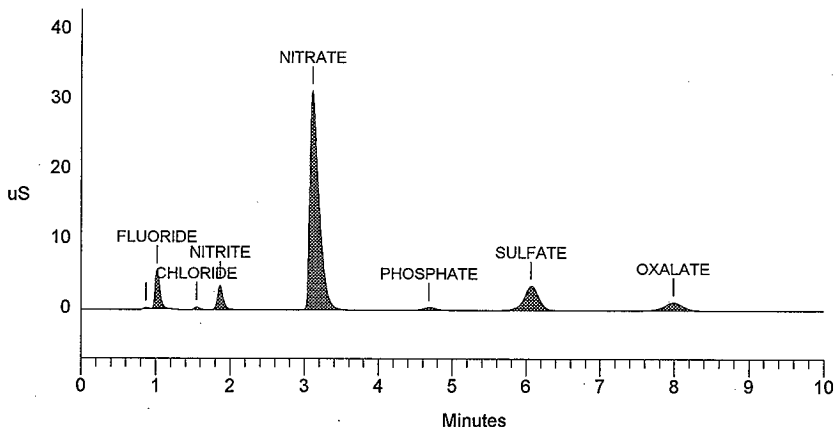
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	186	805	2	
2	1.02	FLUORIDE	51.436	5538	25023	2	-0.33
3	1.54	CHLORIDE	5.450	388	1803	1	-1.28
4	1.86	NITRITE	86.997	3428	18116	1	-2.10
5	3.10	NITRATE	1236.615	31392	270613	1	0.43
6	4.68	PHOSPHATE	63.563	426	5390	1	0.93
7	6.06	SULFATE	194.975	3479	49090	1	-1.09
8	7.98	OXALATE	119.169	1207	22737	1	-0.33
Totals			1758.205	46043	393577		

File: 97013121.d05 Sample: S96TOO5308



Data Reprocessed On 02/12/1997 13:41:06

```

=====
Sample Name: S96TOO5308   DUP                               Date: 01/31/1997 03:09:23
Data File  : E:\DATA\97013121.d06
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst    :                               Column:           Detector: CDM-1
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====

```

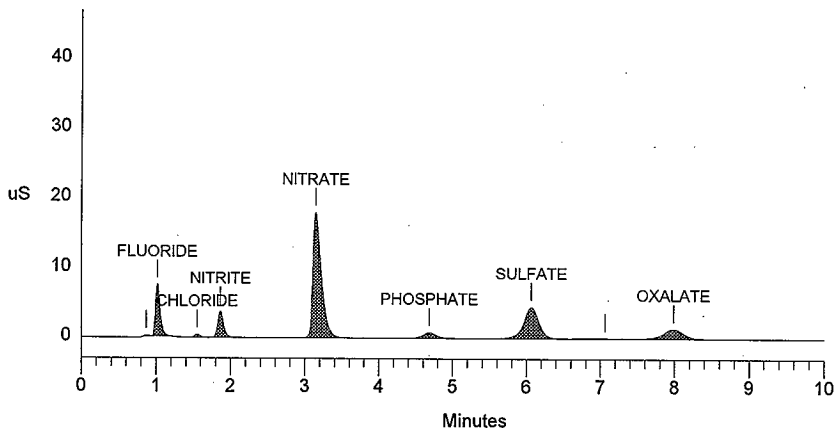
```

***** Peak Report: All Peaks *****

```

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	179	747	2	
2	1.02	FLUORIDE	66.977	7431	32782	2	-0.33
3	1.55	CHLORIDE	6.360	435	2091	1	-0.85
4	1.86	NITRITE	96.359	3751	20138	1	-2.10
5	3.14	NITRATE	681.413	17992	142661	1	1.73
6	4.68	PHOSPHATE	112.016	788	9899	1	0.93
7	6.06	SULFATE	248.333	4501	62989	3	-1.09
8	7.06		0.000	51	1467	4	
9	7.98	OXALATE	139.232	1414	26665	2	-0.33
Totals			1350.690	36544	299439		

File: 97013121.d06 Sample: S96TOO5308 DUP



Data Reprocessed On 02/12/1997 13:41:07

```

=====
Sample Name: S96TOO5308  SPK                               Date: 01/31/1997 03:23:05
Data File  : E:\DATA\97013121.d07
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst    :                               Column:
=====
  
```

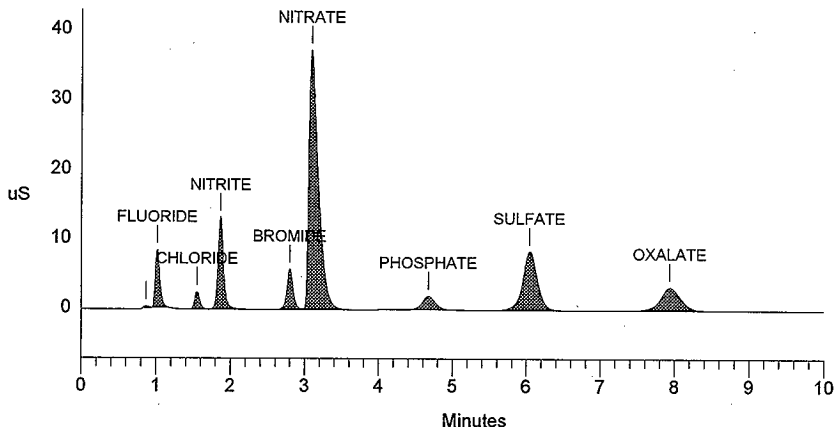
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          41    3000  5Hz   0.00 10.00          50
=====
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	247	1034	2	
2	1.02	FLUORIDE	73.279	8264	35951	2	-0.33
3	1.55	CHLORIDE	35.789	2507	11546	2	-0.85
4	1.86	NITRITE	315.904	13175	67811	2	-2.10
5	2.80	BROMIDE	218.575	5763	33600	2	0.72
6	3.08	NITRATE	1485.211	37227	331722	2	-0.22
7	4.67	PHOSPHATE	262.825	1953	24177	1	0.65
8	6.04	SULFATE	445.271	8384	115257	1	-1.52
9	7.93	OXALATE	320.675	3328	62377	1	-1.00
Totals			3157.529	80849	683476		

File: 97013121.d07 Sample: S96TOO5308 SPK



10/21/96 11:31

A-0004-1

FILE # 0561209C.TX
HOF
LAB 2107

SD-WM-DP-203, REV. 0

Page: 1

LABCORE Data Entry Template for Worklist# 14140

Analyst: B. Goelcke Instrument: ICP01 Book# 645484Method: LA-505-151/161 Rev/Mod B-1
11-05-96

Worklist Comment: ICP BY-111 (DIRECT)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	SERDIL	S96T005314	0 D	@ICP-D01	LIQUID	
7	SAMPLE	S96T005314	0 D	@ICP-D01	LIQUID	96001257 BY-111
	Analytes Requested:					AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01
8	DUP	S96T005314	0 D	@ICP-D01	LIQUID	
9	SPK	S96T005314	0 D	@ICP-D01	LIQUID	
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S96T005153	0 D	@ICP-D01	LIQUID	96001257 BY-111
	Analytes Requested:					AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

HUF
SD-WM-DP-203, REV. 0
Mon 12-09-96 05:19:55 PM

Analysis Report

Summary

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961209C	ICP2	12/09/96	16:03	BJG	Q	CONC
2	ICB	961209C	ICP2	12/09/96	16:21	BJG	Q	CONC
3	LLS	961209C	ICP2	12/09/96	16:24	BJG	Q	CONC
4	ICSA	961209C	ICP2	12/09/96	16:27	BJG	Q	CONC
5	ICSA	961209C	ICP2	12/09/96	16:30	BJG	Q	CONC
6	S96T005314_L	961209C	ICP2	12/09/96	16:33	BJG	S	CONC
7	S96T005314_-L	961209C	ICP2	12/09/96	16:36	BJG	S	CONC
8	S96T005314_D	961209C	ICP2	12/09/96	16:39	BJG	S	CONC
9	S96T005314_A	961209C	ICP2	12/09/96	16:42	BJG	S	CONC
10	S96T005314_X	961209C	ICP2	12/09/96	16:45	BJG	S	CONC
11	S96T005314_-AX	961209C	ICP2	12/09/96	16:48	BJG	S	CONC
12	CCV	961209C	ICP2	12/09/96	16:52	BJG	Q	CONC
13	CCB	961209C	ICP2	12/09/96	16:55	BJG	Q	CONC
14	S96T005153	961209C	ICP2	12/09/96	16:58	BJG	S	CONC
15	S96T005153_D	961209C	ICP2	12/09/96	17:00	BJG	S	CONC
16	S96T005298_-	961209C	ICP2	12/09/96	17:03	BJG	S	CONC
17	S96T005298_-D	961209C	ICP2	12/09/96	17:06	BJG	S	CONC
18	ICSA	961209C	ICP2	12/09/96	17:09	BJG	Q	CONC
19	ICSA	961209C	ICP2	12/09/96	17:11	BJG	Q	CONC
20	CCV	961209C	ICP2	12/09/96	17:14	BJG	Q	CONC
21	CCB	961209C	ICP2	12/09/96	17:16	BJG	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 569 TO 573.

[Signature]
12-08-96

34-14
100% - 100%

S96T005314, 5153, 5258

File # 0961209C.TXT

Al, Cr, K, Na and Si failed in the first part spike. A second part
spike was made and the results are:

$$Al = \frac{\left(\frac{71300}{4010}\right) - \left(\frac{34480}{4010}\right)}{10} \times 100 = 91.8\%$$

$$Cr = \frac{\left(\frac{46800}{4010}\right) - \left(\frac{7138}{4010}\right)}{10} \times 100 = 98.9\%$$

$$K = \frac{\left(\frac{41730}{4010}\right) - \left(\frac{4408}{4010}\right)}{10} \times 100 = 93.1\%$$

$$Na = \frac{\left(\frac{240900}{4010}\right) - \left(\frac{205700}{4010}\right)}{10} \times 100 = 87.8\%$$

$$Si = \frac{\left(\frac{43330}{4010}\right) - \left(\frac{803.2}{4010}\right)}{10} \times 100 = 106.1\%$$

LINE
SD-WM-DP-203, REV. 0
END

Analysis Report

Averages

Mon 12-09-96 05:19:55 PM

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.983	4.860	5.155	4.943	4.887	5.100
2	ICB	-.0008	.0011	.0014	-.0049	.0001	.0005
3	LLS	.0203	.0993	.2026	.0954	.0978	.0106
4	ICSA	.0036	239.0	-.0298	-.0066	.0003	.0006
5	ICSAB	.9204	235.9	-.0238	-.0050	.4450	.4540
6	S96T005314 L	14.29	35060.	-41.02	32.69	.0549	1.168
7	S96T005314	15.09	34290.	-33.30	29.51	.2102	.5782
8	S96T005314 D	14.58	35190.	-33.18	31.49	.1582	.5951
9	S96T005314 A	382.6	35670.	395.5	402.9	377.8	394.4
10	S96T005314 X	26.83	34480.	-50.71	29.81	.4071	1.969
11	S96T005314 AX	38610.	71300.	40330.	37730.	38560.	39620.
12	CCV	4.975	4.757	5.104	4.776	4.824	4.968
13	CCB	.0019	.0050	.0033	.0084	.0004	.0005
14	S96T005153	-.5480	20.09	-7.266	19.02	.0046	.1434
15	S96T005153 D	-.1524	19.14	-5.870	16.05	.0778	.1063
16	S96T005298	-.4893	-.1972	-3.888	3.178	.0429	.1250
17	S96T005298 B	.0267	-.7122	-2.000	2.981	.0789	.0884
18	ICSA	.0023	232.9	.0210	.0025	.0003	.0005
19	ICSAB	.9207	233.8	.0035	-.0023	.4437	.4496
20	CCV	4.912	4.725	5.055	4.800	4.745	4.958
21	CCB	-.0011	-.0060	.0022	.0025	.0001	.0004

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.024	5.045	5.022	4.944	5.059	5.079
2	ICB	-.0175	.0046	.0002	-.0030	.0000	-.0004
3	LLS	.1819	.2026	.0108	.1903	.0420	.0211
4	ICSA	.0258	248.5	.0025	.0181	.0025	.0086
5	ICSAB	-.0335	245.0	.8931	.0157	.4457	.4578
6	S96T005314 L	-31.54	11.22	.1375	-2.022	7.181	7158.
7	S96T005314	-5.181	11.00	.8623	-1.162	4.868	6974.
8	S96T005314 D	6.669	6.282	-.1390	-1.443	5.715	7250.
9	S96T005314 A	398.8	413.5	394.8	386.5	399.4	7692.
10	S96T005314 X	-58.71	9.213	1.531	11.72	3.954	7138.
11	S96T005314 AX	39290.	40690.	39530.	38320.	78.00	46800.
12	CCV	5.030	5.185	5.070	4.860	5.099	5.093
13	CCB	-.0021	.0099	.0005	.0118	.0044	.0020
14	S96T005153	-14.43	-.3399	-.2987	-3.145	.6573	8.200
15	S96T005153 D	-.8709	.8243	.2141	2.425	.6096	7.524
16	S96T005298	-3.588	13.03	-.5817	-1.755	.0822	.0074
17	S96T005298 B	-12.08	14.32	.3855	1.963	.2928	.5537
18	ICSA	-.0094	250.0	.0025	.0153	-.0001	.0099
19	ICSAB	-.0265	250.1	.9065	.0090	.4531	.4641
20	CCV	4.906	5.080	4.989	4.799	5.008	5.021
21	CCB	-.0465	-.0026	-.0005	-.0079	-.0022	.0009

WHC-SD-WM-DP-203, REV. 0

Mon 12-09-96 05:19:55 PM

page 3

Analysis Report

Averages

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.098	-.0007	4.993	4.775	5.007	4.917
2	ICB	-.0012	.0009	.0005	-.2291	.0003	.0008
3	LLS	.0194	.0015	.0866	Q.3066	.1001	.0217
4	ICSA	-.0093	-.0417	92.42	.1996	-.0030	.0029
5	ICSA B	.4472	-.0385	91.08	.1078	-.0031	.9668
6	S96T005314 L	-1.329	3.178	-21.18	4662.	.2688	6.235
7	S96T005314	.5944	.8137	2.205	4688.	.3681	4.484
8	S96T005314 D	.7831	.7997	1.888	4910.	.0612	4.622
9	S96T005314 A	386.4	.8900	390.2	5373.	392.1	385.0
10	S96T005314 X	-8.823	10.39	-29.44	4408.	1.188	13.84
11	S96T005314 AX	-16.42	18.41	39060.	41730.	38810.	37180.
12	CCV	4.936	.0014	4.974	4.599	4.905	4.633
13	CCB	-.0001	.0028	.0021	.1729	.0028	.0032
14	S96T005153	-.1224	.9742	-3.588	15.90	-.3821	2025.
15	S96T005153 D	-.2198	1.210	-3.227	45.48	.4055	1869.
16	S96T005298	-.7598	1.194	-6.621	-85.84	.1038	1.060
17	S96T005298 D	-.4039	1.149	-6.011	21.61	.3382	1.245
18	ICSA	-.0095	-.0516	91.46	.1654	-.0028	.0048
19	ICSA B	.4386	-.0489	91.64	-.1735	-.0038	.9376
20	CCV	4.914	.0012	4.888	4.709	4.828	4.655
21	CCB	-.0014	.0027	-.0168	-.1515	-.0008	.0023

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.781	4.901	5.047	4.718	4.956	4.996
2	ICB	.0050	.0007	.0014	-.0022	.0012	.0012
3	LLS	.1823	.0202	.0966	.2116	.1945	.0357
4	ICSA	247.3	-.0054	-.0097	187.1	.0055	-.0052
5	ICSA B	244.7	.4232	-.0145	184.8	.0059	.8821
6	S96T005314 L	.4452	1.782	29.90	212800.	5.616	5.711
7	S96T005314	-6.218	1.002	31.46	205900.	-.2771	.7187
8	S96T005314 D	-9.603	1.232	32.57	212500.	1.284	.7139
9	S96T005314 A	350.4	376.8	432.4	211500.	386.3	384.9
10	S96T005314 X	-11.69	5.539	31.28	205700.	-5.429	15.83
11	S96T005314 AX	38540.	39150.	38970.	240900.	38270.	39140.
12	CCV	4.668	4.943	5.063	4.520	4.830	5.028
13	CCB	.0071	.0014	.0008	.0254	.0085	.0024
14	S96T005153	-1.017	.5165	1.355	1649.	1.831	-.1692
15	S96T005153 D	.9821	.5666	1.362	1525.	1.018	-3.682
16	S96T005298	.5574	.5680	.7014	18.16	-.4069	-.9287
17	S96T005298 D	4.214	.5522	.1825	18.67	1.183	.3258
18	ICSA	241.9	-.0044	-.0055	178.8	.0084	.0046
19	ICSA B	242.3	.4274	-.0059	180.5	.0046	.8933
20	CCV	4.636	4.838	4.982	4.502	4.764	4.935
21	CCB	-.0038	.0013	.0008	.0178	.0019	-.0009

Analysis Report

Averages

HVF
 WHS-SD-WM-DP-203, REV. 0
 Mon 12-09-96 05:19:55 PM

page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.992	5.049	4.934	4.792	4.811	4.826
2	ICB	-.0042	-.0097	-.0096	.0171	.0415	.0023
3	LLS	.4177	.2228	.1882	.1130	Q.2526	.1611
4	ICSA	.0360	.0425	-.0554	.0043	.0060	-.0027
5	ICSAB	.0298	.9603	-.0422	.0150	.0031	.0013
6	S96T005314 L	358.3	104.3	543.9	18.97	107.1	490.1
7	S96T005314-	324.3	80.02	534.4	2.691	40.87	481.3
8	S96T005314 D	318.9	90.23	506.1	4.100	42.22	504.2
9	S96T005314-A	713.4	497.1	906.6	383.8	452.7	1114.
10	S96T005314 X	328.8	76.39	511.7	30.75	299.7	803.2
11	S96T005314-AX	40740.	41360.	40300.	39050.	37980.	43330.
12	CCV	4.944	5.141	4.901	4.787	4.824	4.943
13	CCB	.0167	.0002	-.0192	.0122	.0628	Q.0827
14	S96T005153	6.792	3.047	39.65	2.950	28.33	60.44
15	S96T005153 D	4.113	.3837	35.23	2.704	30.67	51.37
16	S96T005298	2.456	-4.852	4.201	5.133	24.75	18.99
17	S96T005298-D	3.054	-1.441	1.425	3.784	30.25	16.35
18	ICSA	.0347	.0531	-.0430	.0130	.0201	.0245
19	ICSAB	.0314	.9907	-.0449	.0301	.0440	.0163
20	CCV	4.855	5.042	4.869	4.763	4.753	4.776
21	CCB	.0012	.0064	-.0043	.0156	.0740	.0237

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.861	4.855	.0394	4.855	4.853	9.485
2	ICB	.0178	.0003	-.0010	-.0003	.0126	.0796
3	LLS	.2179	.0201	-.0068	.0200	.4320	.5797
4	ICSA	.0158	.0021	.0079	.0021	.0751	-.0074
5	ICSAB	.0216	.0019	-.0059	.0017	.0959	.0308
6	S96T005314 L	37.23	.7226	-11.30	2.416	10.88	211.7
7	S96T005314-	10.18	.3744	2.563	1.494	22.44	74.66
8	S96T005314 D	11.05	.3944	-2.079	1.771	23.26	90.76
9	S96T005314-A	389.7	375.9	6.467	380.4	380.9	819.2
10	S96T005314 X	155.8	2.271	-28.08	-1.227	96.03	670.6
11	S96T005314-AX	37400.	37640.	158.5	35320.	37810.	3687.
12	CCV	4.747	4.726	.0500	4.786	4.836	9.243
13	CCB	.0394	.0005	-.0020	.0015	.0277	.1722
14	S96T005153	15.17	.1852	-4.400	.4764	4.041	62.02
15	S96T005153 D	16.68	.2055	-3.832	.2748	-1.089	71.77
16	S96T005298	17.10	.2900	-4.451	-.1280	10.47	69.61
17	S96T005298-D	17.39	.2685	-1.472	.2839	9.614	73.46
18	ICSA	.0351	.0020	.0016	.0013	.0667	.0297
19	ICSAB	.0312	.0019	.0054	.0011	.0879	.0090
20	CCV	4.679	4.674	.0510	4.729	4.788	9.131
21	CCB	.0374	.0006	-.0122	.0002	.0232	.1557

HNF
 WHO SD-WM-DP-203, REV. 0
 2-0-17
 LAD

Analysis Report

Averages

Mon 12-09-96 05:19:55 PM

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.012	.0073	5.086	4.887
2	ICB	.0031	.0007	.0016	.0022
3	LLS	.1056	.0012	.0232	.0238
4	ICSA	.0038	.0074	.0060	-.0014
5	ICSAB	.4479	.0076	.9145	-.0004
6	S96T005314 L	8.491	1.796	11.87	6.392
7	S96T005314	3.832	.4083	11.28	1.304
8	S96T005314 D	4.045	.4014	11.21	1.921
9	S96T005314 A	393.5	1.098	413.2	382.2
10	S96T005314 X	29.72	6.315	12.81	23.13
11	S96T005314 AX	69.96	61.92	-106.7	39190.
12	CCV	4.986	.0084	5.137	4.839
13	CCB	.0080	.0017	.0014	.0054
14	S96T005153	2.987	.5708	1.347	2.143
15	S96T005153 D	3.353	.6924	.8996	2.674
16	S96T005298	3.206	.7247	.7008	2.578
17	S96T005298 D	3.270	.7231	.7906	2.351
18	ICSA	.0086	.0084	.0057	.0019
19	ICSAB	.4522	.0081	.9279	.0016
20	CCV	4.917	.0078	5.076	4.766
21	CCB	.0071	.0014	.0001	.0058

87
 12/10/96

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WHC-SD-WM-DP-203, REV.0
2-11-96

Page: 1

LABCORE Data Entry Template for Worklist# 14143

Analyst: B. Golick Instrument: ICP01Book# 64848AMethod: LA-505-151/161 Rev/Mod 8-1

Worklist Comment: ICP BY-111 (DIRECT)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	SERDIL	S96T005346 0 D	@ICP-D01	LIQUID		
7	SAMPLE	S96T005346 0 D	@ICP-D01	LIQUID	96001336	BY-111
	Analytes Requested: AG-D-01, AL-D-01, AS-D-01, B-D-01, BA-D-01, BE-D-01, BI-D-01, CA-D-01, CD-D-01, CE-D-01, CO-D-01, CR-D-01, CU-D-01, FE-D-01, K-D-01, LA-D-01, LI-D-01, MG-D-01, MN-D-01, MO-D-01, NA-D-01, ND-D-01, NI-D-01, P-D-01, PB-D-01, S-D-01, SB-D-01, SE-D-01, SI-D-01, SM-D-01, SR-D-01, TI-D-01, TL-D-01, U-D-01, V-D-01, ZN-D-01, ZR-D-01					
8	DUP	S96T005346 0 D	@ICP-D01	LIQUID		
9	SPK	S96T005346 0 D	@ICP-D01	LIQUID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S96T005319 0 D	@ICP-D01	LIQUID	96001257	BY-111
	Analytes Requested: AG-D-01, AL-D-01, AS-D-01, B-D-01, BA-D-01, BE-D-01, BI-D-01, CA-D-01, CD-D-01, CE-D-01, CO-D-01, CR-D-01, CU-D-01, FE-D-01, K-D-01, LA-D-01, LI-D-01, MG-D-01, MN-D-01, MO-D-01, NA-D-01, ND-D-01, NI-D-01, P-D-01, PB-D-01, S-D-01, SB-D-01, SE-D-01, SI-D-01, SM-D-01, SR-D-01, TI-D-01, TL-D-01, U-D-01, V-D-01, ZN-D-01, ZR-D-01					

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

HUF
WHO SD-WM-DP-203, REV. 0
2-011
Mon 12-09-96 08:23:31 PM

Analysis Report

Summary

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961209E	ICP2	12/09/96	19:13	BJG	Q	CONC
2	ICB	961209E	ICP2	12/09/96	19:16	BJG	Q	CONC
3	ILS	961209E	ICP2	12/09/96	19:19	BJG	Q	CONC
4	ICSA	961209E	ICP2	12/09/96	19:22	BJG	Q	CONC
5	ICSAB	961209E	ICP2	12/09/96	19:25	BJG	Q	CONC
6	S96T005346 L	961209E	ICP2	12/09/96	19:29	BJG	S	CONC
7	S96T005346	961209E	ICP2	12/09/96	19:32	BJG	S	CONC
8	S96T005346 D	961209E	ICP2	12/09/96	19:35	BJG	S	CONC
9	S96T005346 A	961209E	ICP2	12/09/96	19:38	BJG	S	CONC
10	S96T005346 X	961209E	ICP2	12/09/96	19:42	BJG	S	CONC
11	S96T005346 AX	961209E	ICP2	12/09/96	19:45	BJG	S	CONC
12	CCV	961209E	ICP2	12/09/96	19:49	BJG	Q	CONC
13	CCB	961209E	ICP2	12/09/96	19:52	BJG	Q	CONC
14	S96T005319	961209E	ICP2	12/09/96	19:58	BJG	Q	CONC
15	S96T005319 D	961209E	ICP2	12/09/96	20:01	BJG	S	CONC
16	S96T005357	961209E	ICP2	12/09/96	20:03	BJG	S	CONC
17	S96T005357 D	961209E	ICP2	12/09/96	20:06	BJG	S	CONC
18	ICSA	961209E	ICP2	12/09/96	20:09	BJG	Q	CONC
19	ICSAB	961209E	ICP2	12/09/96	20:12	BJG	Q	CONC
20	CCV	961209E	ICP2	12/09/96	20:15	BJG	Q	CONC
21	CCB	961209E	ICP2	12/09/96	20:18	BJG	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 576 TO 580.

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596700 5346, 5319, 5357

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Al, Cr and Na failed in the first post spike. A second post spike was made and the results are:

$$Al = \frac{\left(\frac{80350}{4010}\right) - \left(\frac{43470}{4010}\right)}{10} \times 100 = 92.0\%$$

$$Cr = \frac{\left(\frac{47170}{4010}\right) - \left(\frac{7413}{4010}\right)}{10} \times 100 = 99.1\%$$

$$Na = \frac{\left(\frac{260700}{4010}\right) - \left(\frac{225900}{4010}\right)}{10} \times 100 = 86.8\%$$

HUF
 WHO SD-WM-DP-203, REV. 0
 2-10-97
 LAD Mon 12-09-96 08:23:31 PM

Analysis Report

Averages

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.028	4.908	5.250	5.018	4.985	5.135
2	ICB	.0002	-.0032	.0055	.0084	.0002	.0001
3	LLS	.0214	.0996	.2155	.1017	.0987	.0102
4	ICSA	.0023	241.6	.0073	.0033	.0001	.0001
5	ICSAB	.9364	240.8	-.0119	.0008	.4584	.4615
6	S96T005346_L	15.80	42380.	-15.11	34.84	.1301	.8475
7	S96T005346_	15.75	40750.	-28.41	32.93	.0648	.5290
8	S96T005346_D	15.68	40770.	-28.06	28.50	.0635	.4908
9	S96T005346_A	389.8	40920	383.2	420.7	388.9	404.7
10	S96T005346_X	20.16	43470.	-65.64	57.01	.2207	.9370
11	S96T005346_AX	38850.	80350.	40920.	39020.	39860.	40670.
12	CCV	5.057	4.918	5.214	5.049	5.025	5.139
13	CCB	.0010	-.0036	.0094	.0074	.0001	.0000
14	S96T005319	.2770	121.4	-4.217	10.10	.0085	.0010
15	S96T005319_D	.2475	122.0	-4.385	10.19	.0067	.0020
16	S96T005357_	16.08	53640.	-33.17	32.51	.0625	.3468
17	S96T005357_D	16.06	53020.	-28.23	30.82	.0607	.5655
18	ICSA	.0019	243.1	.0354	.0008	.0001	.0003
19	ICSAB	.9444	243.4	.0046	.0026	.4674	.4679
20	CCV	5.049	4.929	5.197	5.033	5.063	5.157
21	CCB	.0010	-.0025	.0018	.0069	.0003	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.141	5.084	5.089	5.008	5.149	5.114
2	ICB	.0072	-.0005	-.0004	.0089	.0003	.0004
3	LLS	.1799	.2058	.0093	.2051	.0422	.0209
4	ICSA	-.0064	247.9	.0019	.0174	.0007	.0085
5	ICSAB	.0080	249.0	.9120	.0203	.4589	.4686
6	S96T005346_L	21.30	8.204	1.139	13.00	7.567	7288.
7	S96T005346_	17.79	7.733	-3.406	3.899	5.168	7126.
8	S96T005346_D	3.745	6.292	-.1931	5.026	5.170	7033.
9	S96T005346_A	416.8	409.2	397.4	398.6	405.1	7360.
10	S96T005346_X	.0602	9.961	2.476	33.90	9.743	7413.
11	S96T005346_AX	40320.	40260.	39790.	39530.	86.63	47170.
12	CCV	5.162	5.122	5.099	5.023	5.171	5.129
13	CCB	.0036	.0022	.0005	.0072	-.0011	.0007
14	S96T005319	-.0442	1.243	-.0357	.3114	.0732	73.61
15	S96T005319_D	.6610	1.187	-.0407	.1266	.0508	74.21
16	S96T005357_	5.693	5.167	.0792	4.543	5.274	4028.
17	S96T005357_D	13.15	3.982	.3835	8.053	4.038	3959.
18	ICSA	.0314	249.5	.0020	.0155	.0001	.0101
19	ICSAB	.0007	251.2	.9195	.0152	.4643	.4718
20	CCV	5.122	5.133	5.105	5.064	5.169	5.137
21	CCB	-.0032	-.0001	.0004	.0005	.0000	-.0000

ANALYSIS
 SD-WM-DP-203, REV. 0
 2-10-97
 LAD

Analysis Report

Averages

Mon 12-09-96 08:23:31 PM

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.254	-.0029	5.071	5.264	5.075	5.034
2	ICB	.0014	.0012	-.0003	.1685	.0002	.0011
3	LLS	.0199	.0015	.1042	.5249	.1023	.0216
4	ICSA	-.0097	-.0509	93.47	.0018	-.0051	.0025
5	ICSAB	.4629	-.0496	93.29	.0675	-.0042	.9977
6	S96T005346_L	.6759	2.625	4.977	.5551	.7900	2.287
7	S96T005346_	.3819	.6357	2.869	.5229	.2314	.5073
8	S96T005346_D	.3053	.6096	13.18	.5259	.2385	.4560
9	S96T005346_A	407.3	.1591	396.0	.5604	403.0	408.6
10	S96T005346_X	3.545	2.241	3.940	.4923	5.626	2.031
11	S96T005346_AX	-.13.09	2.448	39510	.44570	40020	39690
12	CCV	5.259	-.0024	5.079	4.889	5.092	5.046
13	CCB	.0002	.0007	.0010	.1463	.0009	.0001
14	S96T005319	.1091	-.0004	.4196	75.85	.0307	.2247
15	S96T005319_D	.0885	.0072	.7623	80.85	-.0040	.2246
16	S96T005357	1.304	.5936	4.438	.5343	.5895	1.170
17	S96T005357_D	.5462	.5591	4.107	.5192	.3999	.3549
18	ICSA	-.0088	-.0503	93.97	.1222	-.0049	.0024
19	ICSAB	.4714	-.0500	94.15	.1299	-.0046	1.013
20	CCV	5.278	-.0026	5.067	5.001	5.141	5.024
21	CCB	.0005	.0013	.0004	.1528	.0004	.0010

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.845	4.948	5.131	4.882	5.091	5.069
2	ICB	-.0023	.0006	-.0017	.0135	.0020	.0012
3	LLS	.1887	.0203	.1034	.2144	.1951	.0368
4	ICSA	252.3	-.0061	-.0037	195.0	.0054	-.0142
5	ICSAB	250.8	.4320	-.0077	194.1	.0079	.8915
6	S96T005346_L	-.20.15	1.268	37.31	221800	.0677	-3.908
7	S96T005346_	-6.983	.3783	34.41	219100	.1084	-3.252
8	S96T005346_D	-8.710	.3067	34.03	215800	.9424	-7.273
9	S96T005346_A	365.4	379.7	441.0	215500	402.8	391.7
10	S96T005346_X	5.188	1.090	37.70	225900	4.394	-58.15
11	S96T005346_AX	39700	39480	39430	260700	40070	39590
12	CCV	4.839	4.994	5.153	4.901	5.099	5.109
13	CCB	.0018	.0004	.0017	.0093	.0013	-.0103
14	S96T005319	-.0106	.0110	1.403	3347	.0363	.0378
15	S96T005319_D	-.1638	.0145	1.435	3360	-.0446	.0347
16	S96T005357	-2.646	.2357	34.33	223800	1.051	-1.350
17	S96T005357_D	-2.796	.2392	31.77	220300	-.5129	-4.228
18	ICSA	253.7	-.0063	-.0071	195.5	.0081	-.0053
19	ICSAB	253.2	.4355	-.0081	196.2	.0078	.8878
20	CCV	4.822	4.978	5.157	4.887	5.149	5.090
21	CCB	-.0113	.0006	.0028	.0130	-.0014	-.0000

21047
449
WHS-SD-WM-DP-203, REV. 0

HUF

Analysis Report

Averages

Mon 12-09-96 08:23:31 PM

page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.188	5.074	5.053	4.863	4.841	4.956
2	ICB	-.0212	.0001	-.0056	-.0034	.0177	.0118
3	LLS	.0170	.2204	.1969	.1112	.2041	.1758
4	ICSA	.0168	.0405	-.0412	.0056	-.0013	.0041
5	ICSAB	.0044	.9825	-.0457	.0128	-.0087	.0035
6	S96T005346_L	320.7	75.24	555.1	6.767	68.50	253.0
7	S96T005346	305.6	82.59	546.9	3.224	17.14	237.6
8	S96T005346_D	331.0	80.34	563.0	5.476	25.91	237.6
9	S96T005346-A	722.0	478.5	956.6	388.6	414.5	634.5
10	S96T005346-X	254.3	55.70	556.4	9.878	44.99	299.3
11	S96T005346-AX	41280.	40850.	40890.	39760.	38260.	41770.
12	CCV	5.206	5.103	5.105	4.872	4.844	4.995
13	CCB	-.0241	.0052	-.0085	.0085	.0048	.0207
14	S96T005319	7.744	.1005	66.07	.2189	1.091	56.75
15	S96T005319_D	8.287	-.1455	68.06	.0062	.7297	57.97
16	S96T005357	342.8	109.5	589.8	4.255	15.48	299.4
17	S96T005357_D	321.2	97.54	617.9	5.134	21.96	283.6
18	ICSA	.0168	.0463	-.0097	.0044	-.0173	.0382
19	ICSAB	.0145	.9848	-.0366	.0150	.0009	.0216
20	CCV	5.116	5.098	5.031	4.865	4.856	5.000
21	CCB	-.0212	.0010	-.0036	.0093	.0117	.0424

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.899	4.942	.0095	4.977	4.883	9.672
2	ICB	.0154	.0003	-.0048	-.0008	-.0151	.0561
3	LLS	.2178	.0204	-.0042	.0188	.4009	.5755
4	ICSA	.0067	.0021	-.0067	.0002	.0235	.0584
5	ICSAB	.0044	.0021	-.0062	.0005	.0285	.0543
6	S96T005346_L	25.47	.4333	-.1652	-.0314	20.37	133.1
7	S96T005346	6.254	.1513	1.521	1.349	-3.569	48.38
8	S96T005346_D	5.403	.1286	2.886	1.539	2.771	53.89
9	S96T005346-A	391.2	389.7	5.201	390.5	373.8	796.5
10	S96T005346-X	24.09	.2078	-1.358	1.099	-84.66	164.7
11	S96T005346-AX	38670.	39070.	156.0	36260.	37820.	3458.
12	CCV	4.919	4.952	.0095	4.950	4.872	9.703
13	CCB	.0049	.0002	.0014	-.0005	-.0108	.0233
14	S96T005319	-.1278	.0034	.1245	.0052	-.4093	1.144
15	S96T005319_D	-.0303	.0045	.0403	-.0115	-.0411	1.380
16	S96T005357	4.731	.1073	-1.121	.7117	.9144	44.06
17	S96T005357_D	3.512	.0856	.5853	.6151	-3.566	37.84
18	ICSA	.0030	.0021	-.0130	.0002	.0310	.0555
19	ICSAB	.0007	.0021	.0012	.0013	.0352	.0321
20	CCV	4.963	5.002	.0115	4.995	4.846	9.786
21	CCB	.0104	.0004	-.0073	-.0006	.0004	.0437

Analysis Report

Averages

HUF
SD-WM-DP-203, REV. 0
LAB

Mon 12-09-96 08:23:31 PM

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.106	.0066	5.183	5.000
2	ICB	.0035	.0008	.0001	.0037
3	LLS	.1079	.0014	.0233	Q.0253
4	ICSA	.0028	.0073	.0052	-.0001
5	ICSAB	.4617	.0074	.9387	-.0003
6	S96T005346_L	8.098	1.672	2.084	6.657
7	S96T005346	3.138	.3881	1.378	1.781
8	S96T005346_D	3.043	.3543	.9668	1.368
9	S96T005346_A	402.8	.7302	408.6	397.1
10	S96T005346_X	8.438	2.445	-.6369	10.51
11	S96T005346_AX	49.13	57.62	-116.3	40290.
12	CCV	5.128	.0069	5.202	5.023
13	CCB	.0017	.0006	-.0005	.0025
14	S96T005319	.0417	-.0021	1.918	.0123
15	S96T005319_D	.0456	.0060	1.945	.0421
16	S96T005357	2.193	.2956	1.080	1.678
17	S96T005357_D	2.124	.2668	.9997	1.562
18	ICSA	.0025	.0073	.0042	-.0001
19	ICSAB	.4651	.0073	.9428	-.0012
20	CCV	5.135	.0068	5.178	5.052
21	CCB	.0037	.0007	-.0004	.0039

File # 081203C.TFT

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WHC-SD-WM-DP-203, REV. 0

11/08/96 13:16

Page: 1

A-0004-1

LABCORE Data Entry Template for Worklist# 14819

Analyst: B. GEDCKE Instrument: ICP01 Book# 64B4PAMethod: LA-505-1517161 Rev/Mod B-1

Worklist Comment: ICP BY-111 (FUSION)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPBLKTJA				@ICP-F01	SOLID		
7	SAMPLE	S96T005150	0	F	@ICP-F01	SOLID	96001257	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01								
8	DUP	S96T005150	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SERDIL	S96T005160	0	F	@ICP-F01	SOLID		
12	SAMPLE	S96T005160	0	F	@ICP-F01	SOLID	96001257	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01								

Data Entry Comments:

Sample result calculation:

$$S96T005160 \text{ Al} = 7.477 \frac{\mu\text{g}}{\text{ml}} \times \frac{1}{2.0580 \frac{\text{g}}{\text{L}} \times \frac{12}{1000 \text{ ml}}} = 3.632 + 3 \frac{\mu\text{g}}{\text{g}}$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:16
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WHS-SD-WM-DP-203, REV. 0
203

Page: 2

LABCORE Data Entry Template for Worklist# 14819

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S96T005160	0 F	@ICP-F01	SOLID		
14 SPK ^{1 ppm} Spike 10 ppm	S96T005160	0 F	@ICP-F01	SOLID		
15 SAMPLE	S96T005305	0 F	@ICP-F01	SOLID	96001257	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01						
16 DUP	S96T005305	0 F	@ICP-F01	SOLID		
17 ICSA			@ICP-QC	QC		
18 ICSAB			@ICP-QC	QC		
19 CCV			@ICP-QC	QC		
20 CCB			@ICP-QC	QC		

Final page for worklist # 14819

S. J. Boral
Analyst Signature Date 12-03-96

PK6, PK4, TTA 250-1-10-1
S96T005160 250-1-10-1
5160-D 250-1-10-1
S96T005160-L 250-1-10-1-2ul 8-1
5160 250-1-10-1
5160-D 250-1-10-1
5160-A 250-1-205-1(5160)-2.5-1
5160-K 250-1-1025-1(5160)-2.5-1
S96T005305 250-1-10-1
5305-D 250-1-10-1

Reviewed by:
Sal M. Pany 12/4/96
 Analyst Signature Date

D.F.
41
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205
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41

Data Entry Comments: *Spike recovery calculation:*

$$S96T005160 \quad \text{Recovery} = \left(\frac{47.07}{41} \right) - \left(\frac{7.477}{41} \right) \times 100 = 96.6\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Spike true value is 1.0 ppm for all blanks except for U = 2.0 ppm

WHE SD-WM-DP-203, REV. 0
 2047

Analysis Report

Summary

Tue 12-03-96 02:35:49 PM

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961203C	ICP2	12/03/96	13:25	BJG	Q	CONC
2	ICB	961203C	ICP2	12/03/96	13:28	BJG	Q	CONC
3	LLS	961203C	ICP2	12/03/96	13:32	BJG	Q	CONC
4	IGSA	961203C	ICP2	12/03/96	13:35	BJG	Q	CONC
5	IGSAB	961203C	ICP2	12/03/96	13:38	BJG	Q	CONC
6	PREPBLKTJA	961203C	ICP2	12/03/96	13:41	BJG	S	CONC
7	S96T005150	961203C	ICP2	12/03/96	13:47	BJG	S	CONC
8	S96T005150_D	961203C	ICP2	12/03/96	13:50	BJG	S	CONC
9	CCV	961203C	ICP2	12/03/96	13:54	BJG	Q	CONC
10	CCB	961203C	ICP2	12/03/96	13:57	BJG	Q	CONC
11	S96T005160_L	961203C	ICP2	12/03/96	14:00	BJG	S	CONC
12	S96T005160	961203C	ICP2	12/03/96	14:03	BJG	S	CONC
13	S96T005160_D	961203C	ICP2	12/03/96	14:06	BJG	S	CONC
14	S96T005160_A	961203C	ICP2	12/03/96	14:09	BJG	S	CONC
15	S96T005160_X	961203C	ICP2	12/03/96	14:12	BJG	S	CONC
16	S96T005305	961203C	ICP2	12/03/96	14:16	BJG	S	CONC
17	S96T005305_D	961203C	ICP2	12/03/96	14:18	BJG	S	CONC
18	IGSA	961203C	ICP2	12/03/96	14:23	BJG	Q	CONC
19	IGSAB	961203C	ICP2	12/03/96	14:26	BJG	Q	CONC
20	CCV	961203C	ICP2	12/03/96	14:29	BJG	Q	CONC
21	CCB	961203C	ICP2	12/03/96	14:32	BJG	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 583 TO 587.

E. G. Gail

12-03-96

By: M. Fusion

2,021-10-1

S96T005150, 5160, 5305

FILE # 0261203C.TXT

LINE
WHG SD-WM-DP-203, REV. 0
3-0-97

Analysis Report

Averages

LAD Tue 12-03-96 02:35:49 PM

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.981	4.913	5.253	4.956	4.891	5.184
2	ICB	.0014	.0084	-.0107	.0033	.0002	.0003
3	LLS	.0228	.1078	.2072	.1009	.0982	.0105
4	ICSA	.0024	245.5	-.0198	.0001	.0018	.0004
5	ICSAB	.9596	243.5	-.0293	.0033	.4670	.4794
6	PREPBLKTJA	.0005	.0048	-.0194	.0033	.0001	.0003
7	S96T005150	.1140	4.008	-.5303	.1180	.0116	.0091
8	S96T005150_D	.1690	4.226	.0168	.0594	.0163	.0145
9	CCV	5.069	4.974	5.280	4.982	5.018	5.257
10	CCB	.0003	.0009	-.0032	.0033	.0000	.0003
11	S96T005160 L	.0704	7.972	.6224	.5856	-.0018	.0449
12	S96T005160	.0953	7.477	.0521	.0984	.0097	.0127
13	S96T005160 D	.1119	8.448	.0450	.0788	.0098	.0109
14	S96T005160 A	37.62	47.07	42.47	38.99	39.00	41.17
15	S96T005160 X	372.1	404.5	430.5	396.8	407.2	423.0
16	S96T005305	.3428	11.87	-.3892	.2933	.0164	.0145
17	S96T005305_D	.1436	11.96	-.2896	.1173	.0079	.0145
18	ICSA	.0080	244.8	.0104	.0012	.0019	.0004
19	ICSAB	.9660	244.5	-.0078	.0020	.4695	.4795
20	CCV	5.049	4.984	5.345	5.064	5.023	5.261
21	CCB	.0010	.0022	-.0009	.0033	.0001	.0004
#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.069	4.984	5.036	4.944	4.935	5.055
2	ICB	-.0123	-.0007	.0007	.0051	.0001	.0006
3	LLS	.1858	.2065	.0105	.1999	.0403	.0205
4	ICSA	-.0134	249.0	.0017	.0095	.0014	.0096
5	ICSAB	-.0045	248.3	.9307	.0076	.4563	.4776
6	PREPBLKTJA	-.0103	-.0019	-.0001	-.0041	.0004	-.0000
7	S96T005150	-1.141	.1381	.0428	-.0189	.0393	1.739
8	S96T005150_D	-.9527	.2925	.0468	.0096	.0662	1.791
9	CCV	5.232	5.102	5.121	5.055	5.037	5.152
10	CCB	-.0415	-.0017	.0003	-.0078	.0006	.0002
11	S96T005160 L	-2.559	-.1440	.0411	-1.066	-.0529	3.603
12	S96T005160	.0170	.1860	.0034	-.0350	.0660	3.621
13	S96T005160 D	-.4098	.0588	.0406	-.2595	.1792	3.942
14	S96T005160 A	40.14	41.44	40.86	39.42	40.05	44.77
15	S96T005160 X	410.6	408.1	405.7	404.0	.7632	411.7
16	S96T005305	.1073	.0634	.0563	-.3375	-.0170	4.933
17	S96T005305_D	.3829	-.0714	.0193	-.4125	.1202	4.962
18	ICSA	-.0144	252.4	.0021	.0068	-.0016	.0085
19	ICSAB	-.0143	250.1	.9384	.0114	.4554	.4791
20	CCV	5.161	5.061	5.092	5.032	4.998	5.118
21	CCB	-.0056	-.0033	-.0003	-.0079	-.0018	-.0007

HUF
 SD-WM-DP-203, REV. 0
 207140

Analysis Report

Averages

Tue 12-03-96 02:35:49 PM

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.141	-.0016	5.034	4.819	5.028	5.092
2	ICB	.0000	-.0002	.0014	.0324	.0019	.0005
3	LLS	.0205	.0001	.1007	.5387	.1019	.0216
4	ICSA	-.0085	-.0276	94.03	.1395	-.0050	.0020
5	ICSAB	.4736	-.0255	93.18	.1125	-.0059	1.040
6	PREPBLKTJA	.0007	-.0005	-.0010	196.3	-.0007	.0000
7	S96T005150	.0371	-.0184	4.542	11480.	-.0019	.0194
8	S96T005150_D	.0550	-.0413	4.779	10440.	.0131	-.0190
9	CCV	5.219	-.0013	5.096	4.767	5.146	5.138
10	CCB	.0002	-.0002	.0011	-.0684	-.0001	.0002
11	S96T005160 L	.0462	-.0614	4.262	9860.	-.1845	.0244
12	S96T005160	.0723	-.0330	4.593	9959.	.0178	.0098
13	S96T005160 D	.1078	-.0242	4.638	8117.	-.0196	-.0143
14	S96T005160 A	41.07	-.0060	45.09	9903.	40.40	40.09
15	S96T005160 X	-.0875	.1500	408.5	10360.	410.0	416.0
16	S96T005305	.0537	-.0408	3.806	9127.	-.0132	-.0143
17	S96T005305_D	.0633	-.0403	3.595	11120.	-.0599	.0002
18	ICSA	-.0106	-.0341	94.30	.0521	-.0054	.0026
19	ICSAB	.4740	-.0278	93.57	.1369	-.0044	1.042
20	CCV	5.250	-.0012	5.072	4.881	5.109	5.232
21	CCB	.0003	-.0016	.0005	.0167	-.0004	-.0013

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.857	4.889	4.963	4.919	5.054	5.023
2	ICB	-.0009	.0003	.0017	-.0029	.0006	.0034
3	LLS	.1994	.0198	.0934	.2089	.1990	.0395
4	ICSA	256.9	-.0070	-.0036	200.1	.0054	.0020
5	ICSAB	254.0	.4399	-.0050	197.7	.0048	.9169
6	PREPBLKTJA	.0018	.0004	.0015	1.259	-.0003	.0816
7	S96T005150	-.0297	.2577	-.0156	656.5	-.0685	9.968
8	S96T005150_D	.2695	.2347	.0392	658.5	-.0408	2.966
9	CCV	4.875	4.973	5.040	4.960	5.156	5.116
10	CCB	-.0033	.0002	.0008	-.0059	-.0034	-.0009
11	S96T005160 L	-.2114	.2548	.0313	628.9	-.0510	3.977
12	S96T005160	.0218	.2539	.0187	632.6	-.0629	3.772
13	S96T005160 D	-.0016	.2626	.0049	633.1	.1153	3.806
14	S96T005160 A	38.33	39.13	40.26	667.7	40.48	44.34
15	S96T005160 X	411.0	402.7	393.4	1039.	412.0	409.1
16	S96T005305	-.0582	.2149	.0603	602.2	-.1040	2.412
17	S96T005305_D	-.2403	.2177	.0944	610.9	-.0026	3.224
18	ICSA	256.1	-.0063	-.0068	198.1	.0006	.0028
19	ICSAB	255.6	.4418	-.0085	198.2	.0035	.9375
20	CCV	4.898	4.950	5.015	5.010	5.150	5.118
21	CCB	-.0008	-.0003	-.0004	-.0177	-.0042	-.0054

HUF
 SD-WM-DP-203, REV. 0

Analysis Report

Averages

Tue 12-03-96 02:35:49 PM

page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.975	5.047	4.916	4.722	4.949	4.831
2	ICB	.0052	.0091	.0079	.0061	.0358	.0001
3	LLS	.3959	.2101	.1915	.1065	.2000	.1374
4	ICSA	.0005	.0380	.0139	.0189	.0128	.0097
5	ICCSAB	.0217	1.002	.0305	.0087	.0163	.0096
6	PREPBLKTJA	.0036	.0005	.0159	.0023	.0360	.0013
7	S96T005150	9.732	.0288	48.70	.1738	1.433	3.311
8	S96T005150_D	10.46	.1412	48.97	.0891	1.421	3.272
9	CCV	4.988	5.136	4.914	4.824	5.016	4.898
10	CCB	.0107	.0059	.0102	.0052	.0457	.0003
11	S96T005160 L	10.83	.4211	39.44	.0810	5.831	2.506
12	S96T005160	12.95	.1516	38.75	.2325	.8763	3.004
13	S96T005160 D	15.55	.7236	38.39	.1273	1.385	3.761
14	S96T005160 A	52.12	41.42	78.22	38.26	40.91	43.34
15	S96T005160 X	432.5	418.6	446.7	401.8	403.6	413.3
16	S96T005305	5.528	.0454	33.34	.1804	1.144	2.499
17	S96T005305_D	4.086	.2930	33.44	.3074	.9108	2.688
18	ICSA	.0024	.0338	.0217	.0152	.0112	.0048
19	ICCSAB	.0043	.9995	.0456	.0097	.0058	.0069
20	CCV	5.039	5.087	4.979	4.825	5.041	4.896
21	CCB	.0038	.0093	.0022	.0114	.0193	.0071

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.850	4.903	.0607	4.772	4.816	9.354
2	ICB	.0030	.0001	.0033	.0000	.0129	.0211
3	LLS	.1974	.0201	.0037	.0194	.3782	.4846
4	ICSA	.0123	.0016	.0148	.0010	.0138	.0793
5	ICCSAB	.0121	.0019	.0119	.0005	.0066	.0787
6	PREPBLKTJA	.0078	.0008	.0045	.0001	.0093	.0944
7	S96T005150	.3072	.1129	.2274	.0269	.3312	-3.249
8	S96T005150_D	.6561	.0900	.4461	.0020	.4279	-4.119
9	CCV	4.953	5.006	.0674	4.892	4.859	9.543
10	CCB	.0029	.0001	.0046	.0007	.0062	.0155
11	S96T005160 L	-1.204	.0631	.4811	.0452	-2.414	-5.956
12	S96T005160	-.4478	.0712	.3965	.0318	-.2352	-3.853
13	S96T005160 D	-.3795	.0649	.2512	.0212	-.7181	-2.988
14	S96T005160 A	38.59	39.24	.4659	38.74	38.42	72.95
15	S96T005160 X	396.3	400.4	2.470	362.5	389.8	25.75
16	S96T005305	.6048	.0629	.3481	.0119	.9234	-3.632
17	S96T005305_D	-.4801	.0692	.3499	.0221	-1.197	-4.185
18	ICSA	.0022	.0015	.0126	.0001	.0041	.0758
19	ICCSAB	.0072	.0018	.0080	.0010	.0318	.0622
20	CCV	4.935	4.988	.0556	4.856	4.830	9.513
21	CCB	.0223	.0002	.0035	.0002	.0160	.0822

LUF
 449
 WHE-SD-WM-DP-203, REV. 0
 Tue 12-03-96 02:35:49 PM

Analysis Report

Averages

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.928	.0063	5.002	4.810
2	ICB	-.0009	-.0003	.0005	-.0002
3	LLS	.1005	.0004	.0218	.0199
4	ICSA	-.0040	.0064	.0033	-.0062
5	ICSAB	.4542	.0066	.9366	-.0051
6	PREPELKTJA	-.0016	-.0005	-.0004	-.0012
7	S96T005150	-.0324	-.0115	-.0158	-.0270
8	S96T005150_D	-.0977	-.0368	.0115	-.1120
9	CCV	5.024	.0064	5.076	4.923
10	CCB	-.0005	-.0003	.0001	-.0007
11	S96T005160 L	-.2118	-.0778	.0647	-.0978
12	S96T005160	-.0759	-.0273	.0244	-.0808
13	S96T005160 D	-.0330	-.0277	.0586	-.0712
14	S96T005160 A	39.89	.0493	40.85	38.68
15	S96T005160 X	.2941	.5901	-1.355	400.4
16	S96T005305	-.0908	-.0370	.0111	-.1192
17	S96T005305_D	-.0897	-.0304	.0056	-.0909
18	ICSA	-.0014	.0069	.0061	-.0044
19	ICSAB	.4572	.0068	.9448	-.0042
20	CCV	5.005	.0061	5.060	4.885
21	CCB	-.0043	-.0012	.0000	-.0032

11/08/96 13:19
A-0004-1FILE # 0861209F.TXT
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2-27-97

WHO-SD-WM-DP-203, REV. 0

Page: 1

LABCORE Data Entry Template for Worklist# 14820

Analyst: B. Golick Instrument: ICP01 Book# 64844
ICP01
*11-08-96*Method: LA-505-151/161 Rev/Mod B-1
12-08-96

Worklist Comment: ICP BY-111 (FUSION)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	PREPBLKTJA		@ICP-F01	SOLID		
7	SERDIL	S96T005168 0 F	@ICP-F01	SOLID		
8	SAMPLE	S96T005168 0 F	@ICP-F01	SOLID	96001257 BY-111	
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01						
9	DUP	S96T005168 0 F	@ICP-F01	SOLID		
10	SPK / ppm	S96T005168 0 F	@ICP-F01	SOLID		
11	Spike 10 ppm		@ICP-QC	QC		
12	CCV		@ICP-QC	QC		
13	SAMPLE	S96T005169 0 F	@ICP-F01	SOLID	96001257 BY-111	
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01						

Data Entry Comments: Sample vault calculation:

$$S96T005168 \quad R = 58.98 \mu g \times \frac{1}{2.178 \frac{g}{L} \times \frac{1L}{1000 \mu L}} = 2.712 + 4 \mu g$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:19
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WHC-SD-WM-DP-203, REV. 0
2897

Page: 2

LABCORE Data Entry Template for Worklist# 14820

S Type	Sample#	R A	Test	Matrix	Group#	Project
			SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 ,			
			ZN-F-01 , ZR-F-01			
14 DUP	S96T005169	0 F	@ICP-F01	SOLID		
15 ICSA			@ICP-QC	QC		
16 ICSAB			@ICP-QC	QC		
17 CCV			@ICP-QC	QC		
18 CCB			@ICP-QC	QC		

Final page for worklist # 14820

[Signature]
Analyst Signature

12-08-96
Date

Revised by:
[Signature]
Analyst Signature

12/10/96
Date

preparation 75A .250ml - 10ml 25

S96T005168-L .250ml - 10ml - 2ml - 8ml 205

5768 .250ml - 10ml 41

5768-D .250ml - 10ml 41

5768-A .250ml - 2.05ml (SIT) - 2.85ml 41

5768-X .250ml - 1.025ml - 1.025ml (CIRKLE) - 2.85ml 41

S96T005169 .250ml - 10ml 41

5768-D .250ml - 10ml 41

Data Entry Comments:

spike recovery calculation:

$$S96T005168 \quad Al = \left(\frac{99.75}{41} \right) - \left(\frac{58.98}{41} \right) \times 100 = 99.3\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: spike true value is 1.0 ppm for all elements except for U = 2.5 ppm

HNF
WHC-SD-WM-DP-203, REV. 0
5-10-96
LAB

Analysis Report

Summary

Mon 12-09-96 09:31:10 PM

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961209F	ICP2	12/09/96	20:34	BJG	Q	CONC
2	ICB	961209F	ICP2	12/09/96	20:37	BJG	Q	CONC
3	LLS	961209F	ICP2	12/09/96	20:40	BJG	Q	CONC
4	ICSA	961209F	ICP2	12/09/96	20:43	BJG	Q	CONC
5	ICSAB	961209F	ICP2	12/09/96	20:46	BJG	Q	CONC
6	PREPBLKTJA	961209F	ICP2	12/09/96	20:49	BJG	S	CONC
7	S96T005168_L	961209F	ICP2	12/09/96	20:52	BJG	S	CONC
8	S96T005168	961209F	ICP2	12/09/96	20:55	BJG	S	CONC
9	S96T005168_D	961209F	ICP2	12/09/96	20:57	BJG	S	CONC
10	S96T005168_A	961209F	ICP2	12/09/96	21:00	BJG	S	CONC
11	S96T005168_X	961209F	ICP2	12/09/96	21:04	BJG	S	CONC
12	CCV	961209F	ICP2	12/09/96	21:07	BJG	Q	CONC
13	CCB	961209F	ICP2	12/09/96	21:09	BJG	Q	CONC
14	S96T005169	961209F	ICP2	12/09/96	21:13	BJG	S	CONC
15	S96T005169_D	961209F	ICP2	12/09/96	21:16	BJG	S	CONC
16	ICSA	961209F	ICP2	12/09/96	21:19	BJG	Q	CONC
17	ICSAB	961209F	ICP2	12/09/96	21:21	BJG	Q	CONC
18	CCV	961209F	ICP2	12/09/96	21:25	BJG	Q	CONC
19	CCB	961209F	ICP2	12/09/96	21:27	BJG	Q	CONC

[Signature]

12-08-96

BY-M FUSION

1250ml - 10ml

586T005168, 5168

FILE # 086/208 F.TX5

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 590 TO 593.

WLF
 SD-WM-DP-203, REV. 0

Mon 12-09-96 09:31:10 PM

page 2

Analysis Report

Averages

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.012	4.871	5.152	5.008	5.003	5.119
2	ICB	-.0007	-.0025	.0053	.0053	.0001	.0002
3	LLS	.0225	.1027	.2087	.1085	.1000	.0103
4	ICSA	.0031	241.3	-.0045	-.0062	.0002	.0004
5	ICSAB	.9332	239.6	.0033	-.0015	.4567	.4616
6	PREPBLKTJA	.0015	.0159	.0159	.0032	.0003	.0002
7	S96T005168_L	.2826	58.83	.3282	1.192	.0111	.0578
8	S96T005168	.0697	58.98	.5596	.1764	.0114	.0136
9	S96T005168_D	.0717	55.81	.5381	.2625	.0134	.0156
10	S96T005168_A	38.69	99.70	42.74	40.40	40.27	41.29
11	S96T005168_X	374.4	451.9	423.9	400.8	410.1	417.7
12	CCV	5.125	5.001	5.303	5.147	5.109	5.236
13	CCB	Q.0620	.0060	-.0037	.0121	.0002	.0005
14	S96T005169	.1931	4.545	-.0476	.1745	.0167	.0078
15	S96T005169_D	.2109	4.469	.3454	.3043	.0153	.0077
16	ICSA	.0066	242.1	-.0134	.0041	.0001	.0002
17	ICSAB	.9452	243.8	-.0041	.0046	.4642	.4675
18	CCV	5.051	4.974	5.229	5.082	5.084	5.211
19	CCB	.0029	.0050	.0004	.0116	.0005	.0005

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.063	5.094	5.060	5.008	5.131	5.105
2	ICB	-.0003	.0021	-.0007	.0016	-.0008	-.0016
3	LLS	.1998	.2134	.0106	.2095	.0439	.0204
4	ICSA	-.0108	249.8	.0026	.0223	.0019	.0102
5	ICSAB	.0122	248.5	.9084	.0214	.4576	.4654
6	PREPBLKTJA	.0162	.0171	.0007	.0156	.0016	.0019
7	S96T005168_L	1.688	.5289	.0234	1.727	.3031	.8154
8	S96T005168	-.3922	.4956	-.0090	.1305	.0978	.8973
9	S96T005168_D	1.352	.3061	.0313	.0821	.0870	.9371
10	S96T005168_A	42.54	41.97	41.49	41.09	41.98	42.62
11	S96T005168_X	412.9	411.9	405.5	405.8	.8416	410.2
12	CCV	5.115	5.095	5.107	5.097	5.180	5.140
13	CCB	.0247	.0005	.0002	.0039	-.0008	-.0005
14	S96T005169	.0615	.1989	-.0050	.0468	.1190	1.767
15	S96T005169_D	.3038	.5788	.0583	.7387	.1473	1.841
16	ICSA	-.0434	246.3	.0017	.0145	.0011	.0079
17	ICSAB	-.0323	249.3	.9120	.0235	.4616	.4706
18	CCV	5.162	5.103	5.093	5.062	5.170	5.128
19	CCB	.0209	.0021	.0002	.0204	.0019	.0006

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.221	-.0025	5.044	5.022	5.079	4.965
2	ICB	-.0010	.0008	-.0005	-.0300	-.0002	.0003
3	LLS	.0216	.0016	.1050	Q.7338	.1035	.0213
4	ICSA	-.0090	-.0515	93.54	.2740	-.0039	.0027
5	ICSAB	.4617	-.0485	92.81	.3055	-.0036	.9901
6	PREPBLKTJA	.0007	.0012	.0126	.237.5	.0029	.0005
7	S96T005168_L	.0476	.1838	12.09	10510.	.2031	.0259

WHS-SD-WM-DP-203, REV. 0

Analysis Report

Averages

Mon 12-09-96 09:31:10 PM

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S96T005168	.0198	.0256	10.85	10410.	.0039	-.0052
9	S96T005168_D	.0196	.0275	10.03	12470.	.0471	.0261
10	S96T005168_A	42.33	.0041	51.87	10480.	41.43	40.00
11	S96T005168_X	-.0989	.0179	414.5	10870.	411.1	406.4
12	CCV	5.382	-.0036	5.102	5.188	5.165	5.188
13	CCB	-.0002	-.0003	.0003	.1528	.0011	-.0013
14	S96T005169	.0303	-.0008	6.481	9439.	.0330	-.0260
15	S96T005169_D	.0589	.0177	6.694	8792.	.0996	-.0104
16	IGSA	-.0097	-.0476	92.95	.0502	-.0051	.0022
17	IGSAB	.4709	-.0476	93.75	.3875	-.0043	1.016
18	CCV	5.348	-.0030	5.076	4.981	5.145	5.130
19	CCB	.0012	-.0001	.0016	.1516	.0026	-.0004

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.796	4.947	5.112	4.853	5.082	5.067
2	ICB	-.0079	.0005	.0026	.0042	-.0046	.0103
3	LLS	.1947	.0204	-.1025	.2200	.2026	.0373
4	IGSA	251.2	-.0059	-.0013	193.6	.0068	-.0081
5	IGSAB	249.5	.4306	-.0094	192.2	.0059	.9061
6	PREPBLKTJA	.0138	.0012	.0032	1.514	.0018	1.352
7	S96T005168_L	.7159	.2573	-.3058	562.4	-.0922	1.812
8	S96T005168	-.1050	.2295	-.0005	552.7	.0075	2.111
9	S96T005168_D	.1225	.2394	.1763	572.4	.0982	1.989
10	S96T005168_A	38.87	39.75	42.04	599.3	41.37	43.82
11	S96T005168_X	405.7	403.6	403.6	953.1	411.5	406.7
12	CCV	4.902	5.019	5.168	4.998	5.183	5.100
13	CCB	-.0013	.0003	-.0002	-.0065	-.0022	-.0072
14	S96T005169	-.0748	.2398	-.0317	536.7	-.0435	3.133
15	S96T005169_D	.3741	.2377	.1070	522.3	.2034	2.331
16	IGSA	253.0	-.0064	-.0094	195.2	.0047	-.0144
17	IGSAB	254.0	.4330	-.0060	196.8	.0100	.8851
18	CCV	4.872	4.972	5.157	4.956	5.154	5.105
19	CCB	.0087	.0002	.0017	-.0023	.0012	-.0022

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.215	5.053	5.053	4.838	4.823	4.939
2	ICB	-.0199	-.0058	-.0110	.0025	.0170	.0149
3	LLS	.4171	.2255	.1994	.1040	.2089	.1821
4	IGSA	-.0072	.0584	-.0142	.0123	-.0110	.0094
5	IGSAB	-.0172	.9741	-.0430	.0011	-.0160	.0077
6	PREPBLKTJA	-.0057	.0147	-.0068	.0092	.0067	.0239
7	S96T005168_L	7.672	-1.657	34.37	1.116	4.675	3.728
8	S96T005168	10.26	-.2048	34.13	.1059	.2107	2.297
9	S96T005168_D	9.784	.6862	34.24	.3264	.4884	1.962
10	S96T005168_A	51.00	41.92	76.31	40.12	39.64	43.15
11	S96T005168_X	444.9	415.5	454.5	408.3	391.4	419.0
12	CCV	5.282	5.063	5.125	4.926	4.935	4.989
13	CCB	-.0202	-.0048	-.0158	.0028	.0147	.0054
14	S96T005169	3.898	.4138	47.73	-.1979	.1108	6.083
15	S96T005169_D	4.525	.2986	49.03	.4115	.2881	5.867

HUF
 WHC-SD-WM-DP-203, REV. 0
 2-047

Analysis Report

Averages

Mon 12-09-96 09:31:10 PM page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	-.0041	.0393	-.0214	-.0150	-.0469	.0027
17	ICSAB	-.0033	.9812	-.0476	.0083	-.0239	.0011
18	CCV	5.250	5.052	5.098	4.917	4.889	4.964
19	CCB	-.0097	.0119	-.0112	.0143	.0138	.0035

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.899	4.938	.0123	4.917	4.879	9.682
2	ICB	.0050	.0002	-.0016	-.0013	-.0035	.0209
3	LLS	.2181	.0205	-.0037	.0196	.3687	.5859
4	ICSA	.0043	.0021	-.0132	.0007	.0044	.0386
5	ICSAB	.0069	.0021	-.0045	.0008	.0428	.0418
6	PREPBLKTJA	.0109	.0012	.0053	-.0005	.0106	-.0150
7	S96T005168 L	1.105	.0680	.3026	-.1593	3.730	3.416
8	S96T005168	-.0003	.0638	.2334	-.0095	-.4903	-.6770
9	S96T005168 D	.1315	.0752	.3006	.0017	.2147	-.6271
10	S96T005168 A	40.06	40.16	.2022	40.38	39.04	78.14
11	S96T005168 X	398.2	401.1	1.767	371.9	385.7	33.71
12	CCV	5.023	5.026	.0148	5.008	4.889	9.885
13	CGB	-.0091	.0001	.0018	-.0003	-.0004	-.0260
14	S96T005169	-.2419	.0753	.2022	-.0200	-1.232	-1.795
15	S96T005169 D	.1040	.0774	.4780	.0235	.8742	-.3612
16	ICSA	.0035	.0020	-.0256	.0001	.0754	.0707
17	ICSAB	.0002	.0020	-.0031	.0010	.0245	.0345
18	CCV	4.977	5.013	.0184	5.006	4.912	9.835
19	CCB	-.0052	.0002	.0094	-.0002	-.0074	-.0132

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.096	.0069	5.155	5.001
2	ICB	.0022	.0005	.0006	.0027
3	LLS	.1087	.0015	.0230	.0253
4	ICSA	.0023	.0073	.0049	.0004
5	ICSAB	.4603	.0074	.9334	.0004
6	PREPBLKTJA	.0030	.0007	.0014	.0026
7	S96T005168 L	.4400	.1271	-.0968	.2831
8	S96T005168	.0473	.0228	.0379	.0451
9	S96T005168 D	.1041	.0260	.0387	.0865
10	S96T005168 A	41.69	.0761	42.15	40.74
11	S96T005168 X	4754	.5867	-1.272	414.1
12	CCV	5.165	.0061	5.196	5.070
13	CGB	-.0012	-.0001	.0001	-.0001
14	S96T005169	.0014	.0040	.0063	.0182
15	S96T005169 D	.0550	.0130	.0293	.0419
16	ICSA	.0020	.0072	.0038	.0002
17	ICSAB	.4634	.0072	.9410	-.0013
18	CCV	5.142	.0062	5.177	5.052
19	CCB	.0002	-.0001	-.0004	-.0003

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WHG-SD-WM-DP-203, REV. 0

* 11/08/96 13:26
A-0004-1

Page: 1

LABCORE Data Entry Template for Worklist# 14822

Analyst: B. Golech Instrument: ICP01 Book# 64848A

Method: LA-505-151/161 Rev/Mod B-1

Worklist Comment: ICP BY-111 (FUSION)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	PREPBLKTJA		@ICP-F01	SOLID		
7	SERDIL	S96T005161 0 F	@ICP-F01	SOLID		
8	SAMPLE	S96T005161 0 F	@ICP-F01	SOLID	96001257 BY-111	
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01						
9	DUP	S96T005161 0 F	@ICP-F01	SOLID		
10	SPK ^{1 ppm} Spike 10 ppm	S96T005161 0 F	@ICP-F01	SOLID		
11	CCV		@ICP-QC	QC		
12	CCB		@ICP-QC	QC		
13	SAMPLE	S96T005306 0 F	@ICP-F01	SOLID	96001257 BY-111	
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01						

Data Entry Comments:

^{12/14/96}

$$S96T005161 \quad Al = 7.206 \frac{ug}{ml} \times \frac{1}{2.013 \frac{g}{g} \times \frac{12}{100ml}} = 3.58 \pm 3 \frac{ug}{g}$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:26
A-0004-1

HUF
WHS-SD-WM-DP-203, REV. 0

Page: 2

LABCORE Data Entry Template for Worklist# 14822

S Type	Sample#	R A	Test	Matrix	Group#	Project
			SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
14 DUP	S96T005306	0 F	@ICP-F01	SOLID		
15 SERDIL	S96T005311	0 F	@ICP-F01	SOLID		
16 SAMPLE	S96T005311	0 F	@ICP-F01	SOLID	96001257	BY-111
	Analytes Requested: AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PE-F-01 , S-F-01 , SE-F-01 , SF-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01					
17 DUP	S96T005311	0 F	@ICP-F01	SOLID		
18 SPK /ppm Spike 10 ppm	S96T005311	0 F	@ICP-F01	SOLID		
19 ICSA			@ICP-QC	QC		
20 ICSAB			@ICP-QC	QC		
21 CCV			@ICP-QC	QC		
22 CCB			@ICP-QC	QC		

Final page for worklist # 14822

Analyst Signature	Date	DF	Analyst Signature	Date	DF
<i>S. J. Bouch</i>	12-10-96		<i>Renard by: Saul M. Parag</i>	12/11/96	
<i>96005311-A</i>	250ml - 8.75ml	1	<i>96005311-L</i>	250ml - 8.75ml - 2ml - 1ml	200
<i>596T005161-L</i>	250ml - 8.75ml - 2ml - 1ml	200	<i>5311</i>	250ml - 8.75ml	40
<i>5161</i>	250ml - 8.75ml	40	<i>5311-D</i>	250ml - 8.75ml	40
<i>5161-D</i>	250ml - 8.75ml	40	<i>5311-A</i>	250ml - 2ml - (8.75) - 2.75ml	40
<i>5161-A</i>	250ml - 2ml - (8.75) - 2.75ml	40	<i>5311-X</i>	250ml - 1ml - 1ml - (12.5) - 2.75ml	40
<i>5161-X</i>	250ml - 1ml - 1ml - (12.5) - 2.75ml	40			
<i>596T005306</i>	250ml - 8.75ml	40			
<i>5306-D</i>	250ml - 8.75ml	40			

Data Entry Comments:

Spike recovery calculation:

$$596T005161 \quad \text{Al} = \left(\frac{45.65}{40} \right) - \left(\frac{7.206}{40} \right) \times 100 = 96.1\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: Spike true value is 1.0 ppm for all elements except for U = 2.0 ppm

Analysis Report

Summary

HVE
 143 Tue 12-10-96 02:22:05 PM
 SD-WM-DP-203, REV. 0

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961210C	ICP2	12/10/96	13:12	BJG	Q	CONC
2	ICB	961210C	ICP2	12/10/96	13:15	BJG	Q	CONC
3	LLS	961210C	ICP2	12/10/96	13:18	BJG	Q	CONC
4	ICSA	961210C	ICP2	12/10/96	13:21	BJG	Q	CONC
5	ICSAB	961210C	ICP2	12/10/96	13:24	BJG	Q	CONC
6	PREPBLKTJA	961210C	ICP2	12/10/96	13:27	BJG	S	CONC
7	S96T005161 L	961210C	ICP2	12/10/96	13:31	BJG	S	CONC
8	S96T005161	961210C	ICP2	12/10/96	13:34	BJG	S	CONC
9	S96T005161 D	961210C	ICP2	12/10/96	13:36	BJG	S	CONC
10	S96T005161 A	961210C	ICP2	12/10/96	13:39	BJG	S	CONC
11	S96T005161 X	961210C	ICP2	12/10/96	13:42	BJG	S	CONC
12	CCV	961210C	ICP2	12/10/96	13:45	BJG	Q	CONC
13	CCB	961210C	ICP2	12/10/96	13:48	BJG	Q	CONC
14	S96T005306	961210C	ICP2	12/10/96	13:51	BJG	S	CONC
15	S96T005306 D	961210C	ICP2	12/10/96	13:53	BJG	S	CONC
16	S96T005311 L	961210C	ICP2	12/10/96	13:56	BJG	S	CONC
17	S96T005311	961210C	ICP2	12/10/96	13:59	BJG	S	CONC
18	S96T005311 D	961210C	ICP2	12/10/96	14:02	BJG	S	CONC
19	S96T005311 A	961210C	ICP2	12/10/96	14:05	BJG	S	CONC
20	S96T005311 X	961210C	ICP2	12/10/96	14:08	BJG	S	CONC
21	ICSA	961210C	ICP2	12/10/96	14:11	BJG	Q	CONC
22	ICSAB	961210C	ICP2	12/10/96	14:13	BJG	Q	CONC
23	CCV	961210C	ICP2	12/10/96	14:16	BJG	Q	CONC
24	CCB	961210C	ICP2	12/10/96	14:19	BJG	Q	CONC

S. Brown
 12-10-96
 By M. Fusi
 S96T005161, 5306, 5311
 File # 0961210C.TXT

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 596 TO 600.

HVF
 SD-WM-DP-203, REV. 0
 Tue 12-10-96 02:22:05 PM

Analysis Report

Averages

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.977	4.886	5.164	5.069	4.934	5.165
2	ICB	.0000	-.0029	.0043	.0056	.0001	.0004
3	LLS	.0211	.0933	.1962	.0993	.0993	.0103
4	ICSA	.0013	242.2	.0302	-.0034	.0002	.0002
5	ICSAB	.9343	240.6	.0248	-.0030	.4534	.4644
6	PREPBLKTJA	.0003	.0156	.0153	-.0020	.0000	.0004
7	S96T005161_L	.0967	8.383	2.879	.2040	-.0070	.0741
8	S96T005161_	.0326	7.206	.2325	.0811	.0075	.0096
9	S96T005161_D	.0447	7.146	.6370	.1421	.0128	.0022
10	S96T005161_A	37.55	45.65	42.33	38.98	38.68	40.43
11	S96T005161_X	375.3	383.2	412.0	384.8	391.1	402.9
12	CCV	5.052	4.822	5.197	5.011	4.907	5.099
13	CCB	Q.0139	-.0072	.0020	.0071	.0002	.0002
14	S96T005306	-.0195	14.11	-.1397	.1232	.0042	.0039
15	S96T005306_D	.0248	16.95	-.5318	.0630	.0150	.0055
16	S96T005311_L	-.1824	31.82	3.010	-.5016	.0159	.0083
17	S96T005311_	-.1166	33.19	.0694	.0826	.0024	.0001
18	S96T005311_D	.0452	35.98	.5551	.0194	.0093	.0037
19	S96T005311_A	37.41	72.09	41.71	38.68	38.62	40.07
20	S96T005311_X	366.3	412.7	414.5	389.3	394.7	405.9
21	ICSA	.0561	240.6	-.0017	.0039	.0003	.0006
22	ICSAB	.9429	239.7	.0458	.0030	.4594	.4614
23	CCV	5.033	4.839	5.201	5.009	4.960	5.109
24	CCB	.0008	-.0068	.0080	.0046	.0001	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.060	5.006	5.044	4.982	5.095	5.083
2	ICB	-.0043	.0018	.0002	.0050	.0014	.0015
3	LLS	.2032	.2105	.0098	.1993	.0442	.0218
4	ICSA	-.0384	249.4	.0038	.0085	.0022	.0111
5	ICSAB	.0025	248.1	.9129	.0111	.4592	.4662
6	PREPBLKTJA	.0206	.0076	.0017	-.0012	.0008	.0028
7	S96T005161_L	-1.306	.1578	.4587	-1.391	.4057	1.967
8	S96T005161_	-.7481	.1894	.0280	.0135	.0131	1.650
9	S96T005161_D	.3238	.2070	.1073	.2934	.0530	1.771
10	S96T005161_A	41.08	41.41	40.80	39.67	41.18	42.95
11	S96T005161_X	402.9	408.2	398.3	389.1	394.7	404.0
12	CCV	5.059	5.151	5.102	4.929	5.153	5.148
13	CCB	-.0122	.0038	.0002	.0028	.0011	.0015
14	S96T005306	-1.337	.0931	.0313	-.4172	.0862	5.737
15	S96T005306_D	-1.076	.6249	.0589	.4584	.2388	7.063
16	S96T005311_L	-.5168	1.217	.3453	1.607	.3978	9.296
17	S96T005311_	-.0369	.2567	.0090	-.7667	.0999	9.147
18	S96T005311_D	-.8141	.6395	.0974	.0681	.1098	9.743
19	S96T005311_A	40.35	41.11	40.67	38.76	41.05	49.84
20	S96T005311_X	404.0	402.3	396.8	389.6	.6905	408.9
21	ICSA	-.0295	253.1	.0040	.0072	.0015	.0108
22	ICSAB	.0206	254.1	.9233	.0119	.4639	.4754
23	CCV	5.114	5.170	5.097	4.967	5.160	5.150
24	CCB	-.0016	.0016	.0017	.0032	.0010	.0007

11/16
 2007
 SD-WM-DP-203, REV. 0
 Tue 12-10-96 02:22:05 PM

Analysis Report

Averages

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.242	-.0028	5.032	Q4.487	5.058	5.043
2	ICB	.0000	.0001	-.0008	-.1830	-.0002	.0001
3	LLS	.0199	-.0008	.0923	.4115	.1008	.0215
4	ICSA	-.0094	-.0492	93.56	-.0277	-.0054	.0028
5	ICSAB	.4670	-.0466	92.82	-.1247	-.0061	.9989
6	PREPBLKTJA	.0001	.0003	.0119	254.3	-.0018	.0005
7	S96T005161_L	-.0032	.1445	1.602	10220.	-.3041	.6049
8	S96T005161_A	.0192	.0253	2540	10310.	-.0505	.4142
9	S96T005161_D	.0286	.0296	2474	10510.	-.0133	.4189
10	S96T005161_A	40.96	.0295	40.40	10290.	40.07	38.95
11	S96T005161_X	-.1676	.1032	394.6	10610.	394.2	382.6
12	CCV	5.145	-.0009	5.045	Q4.380	4.985	4.886
13	CCB	-.0000	.0012	.0004	-.0933	-.0004	.0019
14	S96T005306	-.0014	.0460	3.034	9846.	-.1231	.0372
15	S96T005306_D	.0511	.1416	3.778	10710.	-.0183	.1487
16	S96T005311_L	-.3446	.7868	2.376	10000.	-.0480	.8822
17	S96T005311_A	.0054	.1250	1.580	10190.	-.1573	.1394
18	S96T005311_D	.0048	.1105	1.544	9658.	-.0183	.1069
19	S96T005311_A	40.52	.0377	41.65	10290.	39.59	38.32
20	S96T005311_X	-.1192	.0754	394.1	10690.	395.7	388.8
21	ICSA	-.0096	-.0566	93.92	.0237	-.0061	.0035
22	ICSAB	.4613	-.0562	93.71	-.1810	-.0051	.9837
23	CCV	5.168	-.0011	5.043	4.580	5.017	4.925
24	CCB	-.0005	.0014	-.0004	-.2100	-.0007	.0013

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.809	4.913	5.105	4.881	5.059	5.021
2	ICB	-.0033	.0004	.0004	.0009	-.0025	-.0067
3	LLS	.1939	.0204	.1010	.2123	.1956	.0344
4	ICSA	252.1	-.0059	-.0068	195.6	.0047	-.0094
5	ICSAB	250.0	.4306	-.0089	194.3	.0077	.9036
6	PREPBLKTJA	.0046	.0014	.0026	1.639	-.0015	.2351
7	S96T005161_L	-.4220	.1028	.1147	489.5	-.1351	8.250
8	S96T005161_A	.0056	.0478	.0440	490.2	-.1131	7.499
9	S96T005161_D	.1970	.0575	-.0318	496.5	.0179	2.814
10	S96T005161_A	37.82	39.02	41.36	527.8	40.04	47.72
11	S96T005161_X	388.7	395.4	395.6	862.4	392.7	404.9
12	CCV	4.753	4.997	5.142	4.787	4.969	5.120
13	CCB	-.0071	.0007	.0019	.0113	-.0004	-.0001
14	S96T005306	-.2478	.1618	.1211	519.6	-.0576	2.860
15	S96T005306_D	-.4050	.2263	.1008	534.8	.1069	6.617
16	S96T005311_L	-.9547	.4893	.0981	429.3	-.4161	.2231
17	S96T005311_A	-.9444	.1903	.1083	434.3	-.0781	.6320
18	S96T005311_D	.0579	.1433	.1909	425.4	-.0166	1.769
19	S96T005311_A	36.76	38.88	41.07	477.0	39.48	41.49
20	S96T005311_X	391.7	393.0	395.1	822.2	395.3	398.0
21	ICSA	250.0	-.0050	-.0040	193.0	.0048	-.0088
22	ICSAB	248.9	.4376	-.0048	192.3	.0059	.9027
23	CCV	4.752	4.978	5.156	4.806	5.019	5.149
24	CCB	-.0022	.0005	.0012	.0100	-.0018	-.0029

WHC-SD-WM-DP-203, REV. 0

Tue 12-10-96 02:22:05 PM

page 4

Analysis Report

Averages

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.224	5.005	5.015	4.836	4.841	4.920
2	ICB	.0049	.0197	.0169	.0054	.0546	.0020
3	LLS	.4052	.2275	.2127	.0996	Q.2521	.167
4	ICSA	.0015	.0425	.0455	.0081	.0108	.0008
5	ICSAB	.0311	.9762	.0277	.0083	.0143	.0038
6	PREPBLKTJA	.0006	.0125	.0145	.0032	.0423	.0187
7	S96T005161 L	118.9	2.922	-2.208	-1.377	6.306	4.057
8	S96T005161	121.1	.2952	.3847	-.0566	2.197	3.272
9	S96T005161 D	115.8	.2868	.0965	.2651	1.991	2.930
10	S96T005161 A	165.7	41.71	41.36	39.01	40.54	43.47
11	S96T005161 X	535.0	411.7	404.1	397.9	378.5	411.3
12	CCV	5.146	5.114	5.064	4.878	4.862	4.965
13	CCB	.0020	.0057	.0175	.0035	.0505	.0059
14	S96T005306	48.53	.6725	26.87	-.1417	2.130	4.233
15	S96T005306 D	20.25	.3062	35.68	.1622	3.175	6.528
16	S96T005311 L	10.04	2.210	14.21	1.418	17.61	12.73
17	S96T005311	13.00	.3972	14.77	.0873	3.063	7.890
18	S96T005311 D	8.976	.6096	11.81	.0610	2.193	6.245
19	S96T005311 A	54.34	40.81	55.02	39.29	40.92	47.43
20	S96T005311 X	437.8	407.1	421.9	397.9	385.2	415.0
21	ICSA	.0287	.0651	.0390	.0072	.0150	.0035
22	ICSAB	.0318	1.021	.0588	.0131	.0400	.0037
23	CCV	5.174	5.122	5.045	4.882	4.847	4.970
24	CCB	.0192	.0111	.0150	.0083	.0564	.0067

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.876	4.938	.0242	4.941	4.844	9.660
2	ICB	-.0005	.0001	.0015	-.0005	-.0133	-.0023
3	LLS	.2116	.0204	-.0021	.0197	.3779	.5391
4	ICSA	-.0019	.0020	-.0086	.0002	.0216	-.0315
5	ICSAB	-.0030	.0020	-.0035	.0003	.0150	-.0242
6	PREPBLKTJA	.0003	.0011	.0053	-.0010	-.0060	-.0835
7	S96T005161 L	1.324	.0746	.8402	-.0472	2.473	2.197
8	S96T005161	.2168	.0514	.2416	-.0283	.9398	-2.269
9	S96T005161 D	2304	.0579	.1939	-.0081	-.3609	-2.113
10	S96T005161 A	38.82	38.86	3673	39.30	37.70	75.10
11	S96T005161 X	378.8	384.1	1.505	359.1	378.8	30.14
12	CCV	4.800	4.842	.0197	4.905	4.926	9.495
13	CCB	.0161	.0003	-.0024	-.0008	.0046	.0558
14	S96T005306	4.4548	.0748	-.1114	-.0305	-1.221	1.438
15	S96T005306 D	1.731	.1064	-.1729	-.0110	-1.249	5.087
16	S96T005311 L	10.76	.2103	-2.378	-.1670	.5410	39.55
17	S96T005311	1.655	.0894	-.6571	-.0330	.0782	4.257
18	S96T005311 D	1.438	.0767	-.0056	.0106	-.5210	3.284
19	S96T005311 A	38.51	38.52	-.1445	38.93	39.00	75.46
20	S96T005311 X	380.7	385.9	1.561	361.1	375.7	29.06
21	ICSA	.0062	.0022	-.0104	.0005	-.0222	-.0322
22	ICSAB	.0097	.0019	-.0123	-.0000	.0191	-.0313
23	CCV	4.825	4.887	.0129	4.905	4.847	9.547
24	CCB	.0170	.0003	-.0020	-.0013	-.0009	.0538

HUF
 3047
 SD-WM-DP-203, REV. 0
 Tue 12-10-96 02:22:05 PM

Analysis Report

Averages

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.086	.0059	5.112	4.961
2	ICB	-.0002	.0001	.0002	-.0001
3	LLS	.1065	.0009	.0223	.0218
4	ICSA	.0006	.0070	.0048	-.0011
5	ICSAB	.4571	.0069	.9366	-.0020
6	PREPBLKTJA	-.0007	-.0001	.0003	-.0003
7	S96T005161 L	.4698	.0461	.1984	.0831
8	S96T005161	.3525	.0104	.0602	.0143
9	S96T005161 D	.3365	.0134	.0794	.0026
10	S96T005161 A	41.17	.0809	41.78	39.60
11	S96T005161 X	.7947	.5860	-1.145	398.8
12	CCV	5.101	.0070	5.218	4.944
13	CCB	.0025	.0007	.0001	.0027
14	S96T005306	.1580	.0219	.1011	.0971
15	S96T005306 D	.4029	.0825	.1155	.2885
16	S96T005311 L	2.076	.4691	.3963	1.614
17	S96T005311	.3427	.0766	.1212	.2662
18	S96T005311 D	.2791	.0676	.1342	.1891
19	S96T005311 A	40.60	.0808	41.77	39.35
20	S96T005311 X	.4142	.5676	-1.233	399.7
21	ICSA	.0024	.0072	.0048	-.0007
22	ICSAB	.4640	.0075	.9526	.0001
23	CCV	5.116	.0069	5.216	4.964
24	CCB	.0027	.0007	.0000	.0023

FILE # 0961200.TXT

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HWF
SD-WM-DP-203, REV. 0

Page: 1

LABCORE Data Entry Template for Worklist# 14827

Analyst: B. Godek Instrument: ICP01 Book# 6484A

Method: LA-505-151/161 Rev/Mod B-1

Worklist Comment: ICP BY-111 (FUSION)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	PREPBLKTJA		@ICP-F01	SOLID		
7	SERDIL	S96T005323 0 F	@ICP-F01	SOLID		
8	SAMPLE	S96T005323 0 F	@ICP-F01	SOLID	96001336 BY-111	
Analytes Requested:			AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 , SM-F-01 , SR-F-01 , TI-F-01 , TL-F-01 , U-F-01 , V-F-01 , ZN-F-01 , ZR-F-01			
9	DUP	S96T005323 0 F	@ICP-F01	SOLID		
10	SPK /ppm Spike 10 ppm	S96T005323 0 F	@ICP-F01	SOLID		
11	CCV		@ICP-QC	QC		
12	CCB		@ICP-QC	QC		
13	SAMPLE	S96T005337 0 F	@ICP-F01	SOLID	96001336 BY-111	
Analytes Requested:			AG-F-01 , AL-F-01 , AS-F-01 , B-F-01 , BA-F-01 , BE-F-01 , BI-F-01 , CA-F-01 , CD-F-01 , CE-F-01 , CO-F-01 , CR-F-01 , CU-F-01 , FE-F-01 , K-F-01 , LA-F-01 , LI-F-01 , MG-F-01 , MN-F-01 , MO-F-01 , NA-F-01 , ND-F-01 , NI-F-01 , P-F-01 , PB-F-01 , S-F-01 , SB-F-01 , SE-F-01 , SI-F-01 ,			

Data Entry Comments:

Sample result calculation:

$$S96T005323 \quad Al = 120.6 \frac{\mu g}{ml} \times \frac{1}{2.110 \frac{g}{L} \times \frac{1L}{1000ml}} = 5.72e+4 \frac{\mu g}{g}$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:40

A-0004-1

HVE
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LAD WHO SD-WM-DP-203, REV. 0

Page: 2

LABCORE Data Entry Template for Worklist# 14827

S Type	Sample#	R A	Test	Matrix	Group#	Project
			SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01			
14 DUP	S96T005337	0 F	@ICP-F01	SOLID		
15 SERDIL	S96T005338	0 F	@ICP-F01	SOLID		
16 SAMPLE	S96T005338	0 F	@ICP-F01	SOLID	96001336	BY-111
Analytes Requested:						
			AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01			
17 DUP	S96T005338	0 F	@ICP-F01	SOLID		
18 SPK 1 ppn Spike 10 ppn	S96T005338	0 F	@ICP-F01	SOLID		
19 ICSA			@ICP-QC	QC		
20 IC SAB			@ICP-QC	QC		
21 CCV			@ICP-QC	QC		
22 CCB			@ICP-QC	QC		

Final page for worklist # 14827

Analyst Signature	Date	DF	Analyst Signature	Date	Q6
<i>[Signature]</i>	12-10-96		<i>[Signature]</i>	12/11/96	
S96T005338-6	250-1-8.75-1	1	S96T005338-6	250-1-8.75-1-2-1-8-1	200
5333	250-1-8.75-1	40	5338	250-1-8.75-1	40
5333-D	250-1-8.75-1	40	5338-D	250-1-8.75-1	40
5333-A	250-1-2-1(5338)-2.75-1	40	5338-A	250-1-2-1(5338)-2.75-1	40
5333-X	250-1-1-1(401115)-2.75-1	40	5338-X	250-1-1-1(401115)-2.75-1	40
S96T005337	250-1-8.75-1	40			
5337-D	250-1-8.75-1	40			

Data Entry Comments:

Spike recovery calculation:

$$S96T005323 \quad \text{al} = \left(\frac{158.6}{40} \right) - \left(\frac{120.6}{40} \right) \times 100 = 95.0\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: Spike true value is 1.0 ppn for all elements except for U = 2.0 ppn.

HWF
 SD-WM-DP-203, REV. 0
 Tue 12-10-96 03:30:18 PM

page 1

Analysis Report

Summary

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961210D	ICP2	12/10/96	14:23	BJG	Q	CONC
2	ICB	961210D	ICP2	12/10/96	14:26	BJG	Q	CONC
3	LLS	961210D	ICP2	12/10/96	14:28	BJG	Q	CONC
4	ICSA	961210D	ICP2	12/10/96	14:31	BJG	Q	CONC
5	IC SAB	961210D	ICP2	12/10/96	14:34	BJG	Q	CONC
6	PREPBLKTJA	961210D	ICP2	12/10/96	14:36	BJG	S	CONC
7	S96T005323 L	961210D	ICP2	12/10/96	14:39	BJG	S	CONC
8	S96T005323	961210D	ICP2	12/10/96	14:42	BJG	S	CONC
9	S96T005323 D	961210D	ICP2	12/10/96	14:44	BJG	S	CONC
10	S96T005323 A	961210D	ICP2	12/10/96	14:47	BJG	S	CONC
11	S96T005323 X	961210D	ICP2	12/10/96	14:50	BJG	S	CONC
12	CCV	961210D	ICP2	12/10/96	14:53	BJG	Q	CONC
13	CCB	961210D	ICP2	12/10/96	14:57	BJG	Q	CONC
14	S96T005337	961210D	ICP2	12/10/96	15:00	BJG	S	CONC
15	S96T005337 D	961210D	ICP2	12/10/96	15:02	BJG	S	CONC
16	S96T005338 L	961210D	ICP2	12/10/96	15:05	BJG	S	CONC
17	S96T005338	961210D	ICP2	12/10/96	15:08	BJG	S	CONC
18	S96T005338 D	961210D	ICP2	12/10/96	15:11	BJG	S	CONC
19	S96T005338 A	961210D	ICP2	12/10/96	15:13	BJG	S	CONC
20	S96T005338 X	961210D	ICP2	12/10/96	15:16	BJG	S	CONC
21	ICSA	961210D	ICP2	12/10/96	15:19	BJG	Q	CONC
22	IC SAB	961210D	ICP2	12/10/96	15:22	BJG	Q	CONC
23	CCV	961210D	ICP2	12/10/96	15:24	BJG	Q	CONC
24	CCB	961210D	ICP2	12/10/96	15:27	BJG	Q	CONC

BJG
 12-10-96

By-111 Fusion
200-1-27-1

S96T005323, 5337, 5338

File # 096210D.PRT

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 603 TO 607.

HJF
 SD-WM-DP-203, REV. 0
 Tue 12-10-96 03:30:18 PM

Analysis Report

Averages

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.996	4.848	5.259	5.035	4.963	5.138
2	ICB	- .0003	- .0075	.0008	.0015	.0001	.0002
3	LLS	.0210	.0847	.2112	.0998	.0983	.0311
4	ICSA	.0000	.238.7	.0000	- .0080	.0002	.0000
5	ICSAB	.9387	.238.5	- .0079	- .0038	.4547	.4575
6	PREPBLKTJA	.0014	- .0070	.0089	.0051	.0002	- .0001
7	S96T005323 L	.1041	.119.2	- 1.318	.6437	1.095	- .0003
8	S96T005323-	- .0186	.120.6	.7891	.0703	1.091	.0035
9	S96T005323 D	.0164	.128.2	.5054	.2103	1.273	.0034
10	S96T005323-A	37.95	158.6	42.90	39.99	41.12	41.04
11	S96T005323-X	369.3	492.0	412.3	382.4	396.8	401.8
12	CCV	5.108	4.799	5.225	4.900	4.945	5.027
13	CCB	.0000	- .0190	.0141	.0021	- .0000	.0000
14	S96T005337	.0277	136.1	.4972	.1293	.1883	.0037
15	S96T005337 D	.0625	133.0	.4459	.2728	.2741	.0036
16	S96T005338-L	- .0753	104.2	1.592	.0223	.6086	- .0096
17	S96T005338-	.0884	105.9	.0599	.0993	.6091	.0036
18	S96T005338 D	.0112	47.01	- .0652	- .0145	.1948	.0000
19	S96T005338-A	35.32	140.8	41.74	38.02	38.87	39.22
20	S96T005338-X	351.1	462.2	400.6	365.6	377.8	384.8
21	ICSA	.0612	.229.2	.0487	.0003	.0005	.0002
22	ICSAB	.9332	.231.2	.0271	.0082	.4382	.4428
23	CCV	5.001	4.664	5.122	4.798	4.781	4.922
24	CCB	- .0000	- .0151	.0081	.0056	.0002	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.128	5.098	5.088	4.964	5.124	5.120
2	ICB	- .0042	.0020	.0020	- .0050	- .0003	.0020
3	LLS	.2092	.2132	.0105	.1994	.0441	.0229
4	ICSA	.0138	.253.8	.0032	.0050	.0045	.0095
5	ICSAB	- .0175	.254.5	.9200	.0089	.4626	.4746
6	PREPBLKTJA	.0052	.0188	.0018	.0056	.0029	.0012
7	S96T005323 L	- 2.078	58.40	.1346	.0981	.1374	.1680
8	S96T005323-	- .4729	56.80	.0777	- .0106	- .0037	.0697
9	S96T005323 D	- .4800	55.03	.0196	.6095	.0460	.2041
10	S96T005323-A	41.58	99.00	41.56	40.28	42.00	42.12
11	S96T005323-X	405.5	473.5	402.8	390.9	7714	408.0
12	CCV	5.102	5.341	5.168	4.954	5.238	5.237
13	CCB	.0084	.0017	.0016	- .0037	- .0024	.0011
14	S96T005337	- .3575	10.68	.0603	- .0051	.2041	3.531
15	S96T005337 D	- .9881	11.76	.0479	.2742	.1252	3.520
16	S96T005338-L	- 4.703	34.92	.2348	.0402	.1275	4.675
17	S96T005338-	.0330	34.60	.1024	.5352	.1463	4.258
18	S96T005338 D	- .7970	9.283	- .0213	- .3035	.0235	4.104
19	S96T005338-A	39.47	76.16	40.87	38.92	41.35	45.48
20	S96T005338-X	392.5	448.5	395.9	372.8	.8575	404.6
21	ICSA	- .0168	.258.3	.0036	.0256	.0012	.0094
22	ICSAB	.0091	.258.7	.9209	.0201	.4653	.4745
23	CCV	5.084	5.321	5.127	4.790	5.176	5.176
24	CCB	.0179	.0088	.0012	.0034	.0040	.0027

HVE
 WDC SD-WM-DP-203, REV. 0
 3/24/97

Analysis Report

Averages

Tue 12-10-96 03:30:18 PM

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.199	-.0019	5.038	4.524	5.029	4.944
2	ICB	-.0002	.0009	-.0006	-.3735	-.0014	.0009
3	LLS	.0206	.0022	.0982	.3891	.0921	.0220
4	IGSA	-.0094	-.0599	93.46	-.1039	-.0060	.0043
5	IGSAB	.4560	-.0585	93.38	-.0995	-.0059	.9705
6	PREPBLKTJA	-.0000	.0028	.0072	227.6	.0005	.0027
7	S96T005323 L	-.1915	.3962	83.50	8684.	.0123	.3484
8	S96T005323	.0005	.0845	79.99	8665.	-.0221	.0745
9	S96T005323 D	.0555	.0835	73.31	8468.	.0708	.0698
10	S96T005323 A	41.62	.0722	120.9	8647.	41.04	38.93
11	S96T005323 X	-.0789	.1484	473.8	8733.	396.1	375.0
12	CCV	5.050	.0004	5.098	Q4.455	5.003	4.701
13	CCB	-.0024	.0025	-.0011	-.3329	-.0022	.0028
14	S96T005337	.0432	.1523	17.77	10160.	-.0361	.1533
15	S96T005337 D	.0425	.1486	19.64	9183.	-.0272	.1626
16	S96T005338 L	-.1479	.5652	50.15	13640.	-.2162	.5806
17	S96T005338	-.0026	.1339	47.43	13460.	.0903	.1395
18	S96T005338 D	-.0491	.1113	13.83	8062.	-.0860	.1208
19	S96T005338 A	39.16	.1326	86.73	13260.	39.22	36.38
20	S96T005338 X	-.1465	.1849	431.8	13140.	377.9	352.2
21	IGSA	-.0111	-.0764	92.12	-.0141	-.0041	.0078
22	IGSAB	.4326	-.0729	92.48	-.0270	-.0035	.9103
23	CCV	4.906	.0017	5.000	Q4.483	4.841	4.529
24	CCB	.0008	.0044	-.0004	.1795	.0000	.0043

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.762	4.949	5.147	4.832	5.028	5.110
2	ICB	-.0040	.0006	.0031	.0069	-.0019	-.0013
3	LLS	.1793	.0206	.0993	.2210	.1978	.0433
4	IGSA	248.1	-.0051	-.0078	190.8	.0047	.0001
5	IGSAB	247.7	.4349	-.0110	190.7	.0036	.9153
6	PREPBLKTJA	.0121	.0018	.0025	1.489	.0017	.0780
7	S96T005323 L	21.88	1.585	-.1818	101.8	-.5153	30.35
8	S96T005323	21.48	1.487	.0677	99.28	-.0494	28.88
9	S96T005323 D	18.34	1.332	.0449	99.94	.0793	40.81
10	S96T005323 A	58.96	41.17	42.15	137.1	41.03	69.53
11	S96T005323 X	408.7	400.9	400.5	466.8	394.5	431.5
12	CCV	4.707	5.059	5.205	4.713	4.973	5.216
13	CCB	-.0136	.0011	.0003	.0200	-.0060	-.0013
14	S96T005337	3.578	.5476	.0855	412.0	.1411	5.152
15	S96T005337 D	3.908	.5529	.0178	410.5	.1221	10.19
16	S96T005338 L	11.02	1.159	.3143	360.4	-.0371	19.92
17	S96T005338	12.53	1.002	.1148	351.3	-.0105	18.72
18	S96T005338 D	2.672	.4489	-.0352	521.3	-.2478	7.851
19	S96T005338 A	48.24	39.87	41.43	382.1	38.95	58.77
20	S96T005338 X	384.4	391.5	392.7	687.4	374.9	413.7
21	IGSA	239.0	-.0029	-.0034	178.6	.0003	-.0060
22	IGSAB	240.7	.4353	-.0055	180.9	.0049	.9131
23	CCV	4.582	4.963	5.140	4.564	4.798	5.153
24	CCB	.0009	.0018	.0043	.0412	.0052	.0021

HMF
 SD-WM-DP-203, REV. 0
 2004

Analysis Report

Averages

Tue 12-10-96 03:30:18 PM

page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.170	5.091	5.050	4.879	4.938	4.937
2	ICB	-.0136	.0276	-.0140	.0044	.0517	.0041
3	LLS	.4063	.2258	.2035	.1178	0.2608	.1721
4	IGSA	.0081	.0583	-.0441	-.0153	.0266	.0054
5	IGSAB	.0038	1.021	-.0429	-.0002	.0294	.0059
6	PREPBLKTJA	-.0175	.0107	-.0077	.0020	.0468	.0230
7	S96T005323 L	-3.043	.2340	.4208	1.535	12.95	580.1
8	S96T005323	-.6753	.4561	.0603	.6373	2.734	582.1
9	S96T005323 D	-.1732	.6171	-.3940	-.1222	2.504	576.6
10	S96T005323-A	41.27	42.68	40.49	39.74	41.25	618.9
11	S96T005323-X	411.7	419.5	405.4	400.6	381.7	974.9
12	CCV	5.089	5.288	5.012	4.883	4.833	4.992
13	CCB	-.0059	.0107	-.0034	.0077	.0575	.0170
14	S96T005337	3.935	1.262	26.26	.1599	3.027	102.5
15	S96T005337 D	3.771	1.200	26.29	.0173	2.680	111.4
16	S96T005338-L	-.0831	.8293	14.38	1.078	11.99	304.0
17	S96T005338	1.384	.2876	15.22	.5507	2.381	298.9
18	S96T005338 D	11.97	.2008	21.05	.0255	2.582	87.9
19	S96T005338-A	42.90	42.21	55.02	38.97	41.64	332.5
20	S96T005338-X	409.0	417.5	411.3	392.9	371.1	688.3
21	IGSA	.0151	.0764	-.0336	.0086	.0778	.0367
22	IGSAB	.0169	1.042	-.0504	.0043	.0697	.0203
23	CCV	5.116	5.228	5.014	4.840	4.784	4.935
24	CCB	-.0054	.0191	-.0103	.0040	.0767	.0234

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.838	4.888	.0204	4.915	4.850	9.573
2	ICB	.0105	.0003	-.0049	-.0010	-.0342	.0382
3	LLS	.2233	.0202	-.0055	.0202	.3946	.5872
4	IGSA	.0152	.0020	-.0109	.0010	.0189	-.0104
5	IGSAB	.0139	.0020	-.0120	.0005	-.0179	-.0110
6	PREPBLKTJA	.0323	.0015	-.0048	.0000	-.0044	.0601
7	S96T005323 L	4.246	.7560	.0360	11.98	4.507	12.06
8	S96T005323	.5718	.7079	-.0718	12.11	-.1847	-.2743
9	S96T005323 D	5474	.7999	.1680	11.93	.3969	-.0010
10	S96T005323-A	39.88	40.37	1029	52.10	38.84	78.00
11	S96T005323-X	378.6	386.2	1.210	372.4	380.7	32.58
12	CCV	4.789	4.842	.0190	4.902	4.888	9.461
13	CCB	.0331	.0005	-.0088	-.0013	.0127	.1261
14	S96T005337	1.858	.2216	-.2706	1.749	.3665	4.923
15	S96T005337 D	1.958	.2792	-.1297	2.415	-.5631	5.597
16	S96T005338-L	7.300	.5528	-2.195	6.849	.6754	21.85
17	S96T005338	1.619	.4625	.1207	6.858	.1173	2.858
18	S96T005338 D	1.425	.1918	-.3602	1.575	-.2172	4.120
19	S96T005338-A	39.09	38.36	-.1536	45.43	39.52	77.06
20	S96T005338-X	359.4	367.7	.7390	352.6	374.2	34.41
21	IGSA	.0625	.0022	-.0102	.0003	-.0134	.0869
22	IGSAB	.0489	.0020	-.0016	.0006	.0211	.0394
23	CCV	4.637	4.700	.0149	4.780	4.866	9.171
24	CCB	.0569	.0009	-.0112	.0002	.0027	.2126

HAF
-WDC-SD-WM-DP-203, REV. 0
-243

Analysis Report

Averages

Tue 12-10-96 03:30:18 PM

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.098	.0067	5.183	4.958
2	ICB	.0019	.0005	-.0001	.0022
3	LLS	.1092	.0016	.0222	.0246
4	ICSA	.0043	.0078	.0046	.0008
5	IC SAB	.4645	.0080	.9502	.0011
6	PREPBLKTJA	.0062	.0015	.0001	.0044
7	S96T005323 L	.9835	.2457	.7720	.5686
8	S96T005323	.3717	.0628	.7364	.2955
9	S96T005323 D	.3565	.0690	.5834	.2626
10	S96T005323 A	41.82	.1299	42.90	40.72
11	S96T005323 X	.8914	.6696	-.6497	403.3
12	CCV	5.142	.0084	5.295	4.981
13	CCB	.0055	.0014	.0014	.0046
14	S96T005337	.4071	.0857	.1573	.2945
15	S96T005337 D	.4128	.0948	.1770	.3278
16	S96T005338 L	1.497	.3512	.7738	1.171
17	S96T005338	.4871	.1022	.4158	.3396
18	S96T005338 D	.3703	.0704	.1959	.2436
19	S96T005338 A	40.88	.1647	42.34	39.43
20	S96T005338 X	1.030	.6751	-.7795	389.3
21	ICSA	.0137	.0099	.0055	.0073
22	IC SAB	.4641	.0096	.9574	.0055
23	CCV	5.051	.0088	5.268	4.866
24	CCB	.0109	.0027	.0001	.0084

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HNF
SD-WM-DP-203, REV. 0

Page: 1

LABCORE Data Entry Template for Worklist# 14829

Analyst: B. GDELL Instrument: ICP01 Book# 648984Method: LA-505-157/161 Rev/Mod 8-1

Worklist Comment: ICP BY-111 (FUSION)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 ICV			@ICP-QC	QC		
2 ICB			@ICP-QC	QC		
3 LLS			@ICP-QC	QC		
4 ICSA			@ICP-QC	QC		
5 ICSAB			@ICP-QC	QC		
6 PREPBLKTJA			@ICP-F01	SOLID		
7 SERDIL	S96T005352	0 F	@ICP-F01	SOLID		
8 SAMPLE	S96T005352	0 F	@ICP-F01	SOLID	96001336	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01						
9 DUP	S96T005352	0 F	@ICP-F01	SOLID		
10 SPK <i>1st</i>	S96T005352	0 F	@ICP-F01	SOLID		
11 CCV <i>2nd</i>			@ICP-QC	QC		
12 CCB			@ICP-QC	QC		
13 SAMPLE	S96T005343	0 F	@ICP-F01	SOLID	96001336	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01						

Data Entry Comments:

Sample result calculation:

$$S96T005352 \quad Al = 61.53 \mu g \times \frac{1}{2.0280 \frac{g}{L}} \times \frac{1L}{1000L} = 3.032 + 4 \mu g$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:48

A-0004-1

HNF
WHO SD-WM-DP-203, REV. 0
2007

Page: 2

LABCORE Data Entry Template for Worklist# 14829

S Type	Sample#	R A	Test	Matrix	Group#	Project
			SM-F-01, SR-F-01, ZN-F-01	SR-F-01, ZR-F-01	TI-F-01, TL-F-01	U-F-01, V-F-01
14 DUP	80 12/12/96 S96T005343	0 F	@ICP-F01	SOLID		
15 SERDIL	S96T005353	0 F	@ICP-F01	SOLID		
16 SAMPLE	S96T005353	0 F	@ICP-F01	SOLID	96001336 BY-111	
	Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01					
17 DUP	S96T005353	0 F	@ICP-F01	SOLID		
18 SPK 100	S96T005353	0 F	@ICP-F01	SOLID		
19 ICSA			@ICP-QC	QC		
20 ICSAB			@ICP-QC	QC		
21 CCV			@ICP-QC	QC		
22 CCB			@ICP-QC	QC		

Final page for worklist # 14829

J. Bouch
Analyst Signature Date 12-11-96

DF

Revised by:
Saul H. Pang 12/12/96
Analyst Signature Date

DF

596T005353-L 200-275 200
 5352 200-275 40
 5352-D 200-275 40
 5352-A 200-2(5352)-275 40
 5352-X 200-1-1(200-100)-275 40
 596T005343 200-275 40
 5343-A 200-275 40

596T005353-L 200-275-2-8 200
 5353 200-275 40
 5353-D 200-275 40
 5353-A 200-2(5353)-275 40
 5353-X 200-1-1(200-100)-275 40

Data Entry Comments:

Spike recovery calculation:

$$596T005353 \quad R = \left(\frac{100.8}{40} \right) - \left(\frac{61.53}{40} \right) \times 100 = 98.2\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Spike true value is 1.0 ppb for all elements except for U = 2.0 ppb

HVE
40 SD-WM-DP-203, REV. 0

Analysis Report

Summary

Wed 12-11-96 08:29:29 PM

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961211G	ICP2	12/11/96	17:39	BJG	Q	CONC
2	ICB	961211G	ICP2	12/11/96	17:41	BJG	Q	CONC
3	LLS	961211G	ICP2	12/11/96	17:44	BJG	Q	CONC
4	ICSA	961211G	ICP2	12/11/96	17:47	BJG	Q	CONC
5	ICSAB	961211G	ICP2	12/11/96	17:49	BJG	Q	CONC
6	PREPBLKTJA	961211G	ICP2	12/11/96	17:53	BJG	S	CONC
7	S96T005352 L	961211G	ICP2	12/11/96	17:56	BJG	S	CONC
8	S96T005352	961211G	ICP2	12/11/96	17:58	BJG	S	CONC
9	S96T005352 D	961211G	ICP2	12/11/96	18:01	BJG	S	CONC
10	S96T005352 A	961211G	ICP2	12/11/96	18:04	BJG	S	CONC
11	S96T005352 X	961211G	ICP2	12/11/96	18:07	BJG	S	CONC
12	CCV	961211G	ICP2	12/11/96	18:12	BJG	Q	CONC
13	CCB	961211G	ICP2	12/11/96	18:16	BJG	Q	CONC
14	S96T005343	961211G	ICP2	12/11/96	18:19	BJG	S	CONC
15	S96T005343 D	961211G	ICP2	12/11/96	18:22	BJG	S	CONC
16	S96T005353 L	961211G	ICP2	12/11/96	18:25	BJG	S	CONC
17	S96T005353	961211G	ICP2	12/11/96	18:27	BJG	S	CONC
18	S96T005353 D	961211G	ICP2	12/11/96	18:30	BJG	S	CONC
19	S96T005353 A	961211G	ICP2	12/11/96	18:34	BJG	S	CONC
20	S96T005353 X	961211G	ICP2	12/11/96	18:37	BJG	S	CONC
21	ICSA	961211G	ICP2	12/11/96	18:41	BJG	Q	CONC
22	ICSAB	961211G	ICP2	12/11/96	18:44	BJG	Q	CONC
23	CCV	961211G	ICP2	12/11/96	18:51	BJG	Q	CONC
24	CCB	961211G	ICP2	12/11/96	18:54	BJG	Q	CONC

B. G. G. G.

12-11-96

BY-111 FUSION

180ml - 975ml

S96T005352, 5343, 5353

FILE # 0961211G.TXT

Na failed in the first port spike. A second port spike was made and the result is:

$$Na = \frac{\left(\frac{925.9}{40}\right) - \left(\frac{535.7}{40}\right)}{10} \times 100 = 97.6 \%$$

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 ANALYZED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 610 TO 614.

WHS-SD-WM-DP-203, REV. 0
 Wed 12-11-96 08:29:29 PM

Analysis Report

Averages

page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.048	4.996	5.232	5.023	5.094	5.223
2	ICB	.0016	.0137	-.0017	.0056	.0002	.0003
3	LIS	.0239	.1135	.2113	.1020	.1025	.0106
4	ICSA	.0034	251.5	-.0370	-.0039	.0000	.0002
5	ICSAB	.9854	250.7	-.0484	-.0027	.4945	.4964
6	PREPBLKTJA	.0015	.0485	.0093	.0011	.0001	.0001
7	S96T005352 L	.3256	64.04	1.177	-.3449	-.0131	.0315
8	S96T005352	.1077	61.53	.2474	-.1822	.0087	.0105
9	S96T005352 D	.0276	54.09	.2032	-.0466	-.0030	.0065
10	S96T005352 A	37.64	100.8	43.83	40.87	41.71	43.03
11	S96T005352 X	359.0	459.5	426.2	405.0	422.1	430.7
12	CCV	5.200	5.171	5.381	5.226	5.336	5.420
13	CCB	.0047	.0121	-.0022	.0028	.0000	-.0000
14	S96T005343	.0907	47.79	.7269	-.0915	.0034	.0086
15	S96T005343 D	-.0024	1.179	-.5716	.0208	-.0087	.0044
16	S96T005353 L	.0576	64.03	1.855	-.5711	-.0422	.0219
17	S96T005353	.0437	61.09	-.1347	-.0469	.0014	.0086
18	S96T005353 D	.1087	99.19	-.2558	-.0923	.0134	-.0014
19	S96T005353 A	37.61	102.6	44.31	41.30	41.33	42.48
20	S96T005353 X	353.8	477.1	436.6	421.6	437.0	443.0
21	ICSA	.0314	267.7	-.0337	-.0075	-.0000	.0005
22	ICSAB	1.025	268.4	-.0515	-.0095	.5297	.5351
23	CCV	5.102	5.180	5.388	5.373	5.254	5.467
24	CCB	.0052	.0276	.0161	.0090	.0013	.0015

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.114	5.079	5.129	5.108	5.111	5.139
2	ICB	-.0648	-.0020	.0019	.0021	.0002	-.0004
3	LIS	.2095	.2171	.0096	.2020	.0459	.0214
4	ICSA	.0081	250.6	.0001	.0138	.0027	.0101
5	ICSAB	-.0461	250.4	.9578	.0086	.4805	.4911
6	PREPBLKTJA	-.0258	.0302	.0011	.0050	.0017	.0003
7	S96T005352 L	-4.908	-.2501	.2758	.5617	.1455	7.377
8	S96T005352	-.1455	.1347	.0523	.2312	.0863	7.311
9	S96T005352 D	-1.788	-.0298	-.0024	-.4000	-.0589	5.590
10	S96T005352 A	40.97	41.20	41.77	42.78	41.61	49.09
11	S96T005352 X	414.2	404.3	407.6	416.7	6676	416.8
12	CCV	5.244	5.153	5.218	5.315	5.212	5.247
13	CCB	-.0264	-.0006	.0005	.0029	.0002	-.0008
14	S96T005343	-1.161	.2491	.0378	-.5382	.0780	8.084
15	S96T005343 D	-.5173	.0466	-.0301	-.2213	.1496	.0216
16	S96T005353 L	-3.929	-.6079	.0271	-2.330	.3306	4.695
17	S96T005353	-1.439	-.0542	-.0174	-.4681	.0284	4.687
18	S96T005353 D	-.1853	.1529	-.0009	-.2772	.2015	12.38
19	S96T005353 A	41.88	41.65	41.61	44.18	41.48	46.38
20	S96T005353 X	425.6	402.6	408.2	431.1	.5645	417.2
21	ICSA	-.0424	250.2	.0016	.0087	-.0018	.0085
22	ICSAB	-.0249	250.4	.9794	.0004	.4919	.5045
23	CCV	5.106	5.009	5.107	5.256	5.155	5.147
24	CCB	-.0175	.0059	.0010	.0134	.0029	.0019

2-1077
 LADY HC SD-WM-DP-203, REV. 0
 H/D

Analysis Report

Averages

Wed 12-11-96 08:29:29 PM

page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.302	-.0072	5.110	4.980	5.180	5.142
2	ICB	.0003	-.0014	.0007	.1219	.0008	-.0004
3	LLS	.0039	-.0022	1.183	0.7088	1.064	.0197
4	IGSA	.00099	-.0688	96.63	.2886	-.0041	.0009
5	IGSAB	.4941	-.0670	96.20	.1969	-.0051	1.062
6	PREPBLKTJA	.0006	-.0018	.0134	345.5	.0015	-.0017
7	S96T005352 L	.1719	-.5653	-.2390	13400.	.3409	-.6948
8	S96T005352	.0443	-.1316	.3637	13350.	.0532	-.1272
9	S96T005352 D	-.0182	-.1275	.3062	12490.	-.0249	-.1330
10	S96T005352 A	43.81	-.1500	41.90	13060.	42.97	42.72
11	S96T005352 X	-.1186	-.2888	407.9	13310.	424.8	426.6
12	CCV	Q5.533	-.0091	5.247	5.212	5.413	5.423
13	CCB	.0001	-.0027	-.0001	.0298	.0013	-.0026
14	S96T005343	.0552	-.1134	1.253	13950.	-.0433	-.1156
15	S96T005343 D	.2702	-.1238	.2156	11.40	-.0362	-.1157
16	S96T005353 L	.1720	-.5317	-.1.327	15300.	-.0882	-.6368
17	S96T005353	.0881	-.1071	-.0828	15120.	-.0168	-.1156
18	S96T005353 D	.1632	-.1162	1.638	31080.	-.0161	-.1154
19	S96T005353 A	43.46	-.1358	41.61	14840.	42.77	42.41
20	S96T005353 X	-.1937	-.3537	414.1	15880.	437.7	455.7
21	IGSA	-.0104	-.0555	99.59	.1190	-.0042	-.0028
22	IGSAB	.5461	-.0518	99.70	.1701	-.0053	1.195
23	CCV	Q5.604	-.0102	5.158	5.427	5.317	Q5.604
24	CCB	.0019	-.0029	.0029	.3389	.0039	-.0023

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.912	5.016	5.098	4.994	5.192	5.108
2	ICB	.0059	-.0004	.0017	-.0169	.0011	.0156
3	LLS	.1980	.0189	.1049	.1838	.2127	.0465
4	IGSA	263.3	-.0079	-.0045	204.0	.0139	.0014
5	IGSAB	262.3	.4535	-.0059	203.4	.0172	.9295
6	PREPBLKTJA	.0424	.0004	.0033	2.219	.0032	.3392
7	S96T005352 L	2.582	-.2002	.4009	538.0	.2300	4.622
8	S96T005352	.7039	.0249	.1475	535.7	.0045	3.813
9	S96T005352 D	-.1427	.0493	.0333	592.0	-.2112	42.72
10	S96T005352 A	40.61	39.77	41.81	565.7	43.27	45.42
11	S96T005352 X	413.1	404.0	401.7	925.9	427.3	405.5
12	CCV	5.037	5.126	5.224	5.189	5.443	5.201
13	CCB	.0032	-.0010	.0003	-.0307	.0027	.0107
14	S96T005343	.0390	.0676	.1708	625.5	.0103	12.50
15	S96T005343 D	1.082	1.825	.2266	.7988	.1115	796.5
16	S96T005353 L	1.555	-.2074	.7835	553.9	.1292	15.90
17	S96T005353	.1477	-.0019	.0403	549.9	.0985	14.61
18	S96T005353 D	-.0810	1.055	.1605	1191.	.1800	405.8
19	S96T005353 A	42.66	39.49	41.77	584.3	43.15	55.73
20	S96T005353 X	428.5	408.5	406.7	1001.	442.8	419.7
21	IGSA	280.1	-.0099	-.0050	222.3	.0074	-.0052
22	IGSAB	280.3	.4645	-.0071	223.2	.0121	.9798
23	CCV	5.083	5.035	5.164	5.218	5.376	5.075
24	CCB	.0230	.0001	.0010	-.0343	.0067	.0094

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 WJ-SD-WM-DP-203, REV. 0
 Wed 12-11-96 08:29:29 PM

Analysis Report

Averages

page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.132	5.093	4.987	4.840	4.949	4.939
2	ICB	-.0035	.0103	-.0135	-.0052	.0011	-.0026
3	LLS	.4177	.2200	.2216	.1033	.1849	.1411
4	ICSA	.0062	.0494	-.0339	.0075	-.0361	-.0165
5	ICSAB	.0021	1.036	-.0129	-.0043	-.0174	-.0126
6	PREPBLKTJA	-.0164	.0062	.0018	.0124	-.0128	.0061
7	S96T005352 L	1.530	-.4583	38.15	-.4684	-5.586	1.383
8	S96T005352	3.735	.7896	36.70	.1616	-1.167	1.822
9	S96T005352 D	2.663	-.3136	22.37	.0453	-.6813	.8351
10	S96T005352 A	44.75	41.01	76.44	40.04	41.06	42.29
11	S96T005352 X	424.9	412.1	443.5	404.1	404.6	415.6
12	CCV	5.210	5.137	5.108	4.940	5.061	5.026
13	CCB	-.0067	.0000	.0098	.0103	-.0178	-.0094
14	S96T005343	15.09	.1657	15.79	.0520	-1.023	2.715
15	S96T005343 D	1.005	.2636	.0431	.3646	-4.949	.3267
16	S96T005353 L	2.324	-.1293	18.40	-.7171	-4.807	.5304
17	S96T005353	.9691	.6080	17.15	.1198	-.7506	1.376
18	S96T005353 D	14.71	.6653	32.97	.1794	-.3790	4.379
19	S96T005353 A	43.38	41.70	58.64	41.02	40.33	42.34
20	S96T005353 X	439.8	410.5	436.6	411.5	414.2	423.5
21	ICSA	.0427	.0143	-.0234	-.0044	-.0780	-.0344
22	ICSAB	-.0002	1.020	-.0290	-.0003	-.0985	-.0368
23	CCV	5.247	4.990	5.099	4.918	5.053	5.009
24	CCB	-.0077	.0023	.0042	.0018	-.0278	-.0115

8/12/96

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.005	5.028	-.0362	4.957	4.855	9.737
2	ICB	-.0277	-.0001	.0118	.0000	.0063	-.0749
3	LLS	.1732	.0203	.0067	.0210	.4402	.3823
4	ICSA	-.0192	.0021	-.0091	.0007	.0175	.1369
5	ICSAB	-.0192	.0021	-.0152	.0012	.0180	.1523
6	PREPBLKTJA	-.0341	.0011	.0147	.0001	-.0021	-.1964
7	S96T005352 L	-8.892	-.0580	3.567	-.0934	-.1372	-34.91
8	S96T005352	-2.253	.0351	1.091	.0038	-.2919	-9.627
9	S96T005352 D	-2.037	.0326	.5434	-.0519	-.4813	-9.584
10	S96T005352 A	40.03	41.77	3442	41.24	39.51	74.05
11	S96T005352 X	412.5	415.2	1.598	378.6	388.8	28.37
12	CCV	5.229	5.263	-.0369	5.138	5.033	10.17
13	CCB	-.0368	-.0006	.0148	-.0010	-.0227	-.1347
14	S96T005343	-1.794	.0497	.6600	-.0179	.0958	-9.036
15	S96T005343 D	-1.791	-.0310	.6885	.2949	.1055	-8.175
16	S96T005353 L	-8.140	-.0580	3.733	-.0919	-.5663	-34.63
17	S96T005353	-1.769	.0448	.9615	.0059	.2593	-9.524
18	S96T005353 D	-1.852	.1233	.8809	.1526	-.4100	-12.93
19	S96T005353 A	39.61	41.34	1.412	40.68	39.75	73.13
20	S96T005353 X	427.0	429.6	1.934	390.0	395.6	23.00
21	ICSA	-.0754	.0020	-.0138	.0018	.0045	.0258
22	ICSAB	-.0785	.0019	-.0103	.0010	.0297	.0005
23	CCV	5.162	5.206	-.0311	5.122	4.859	10.12
24	CCB	-.0446	.0006	.0223	.0023	-.0016	-.1699

12/12/96

WHC-SD-WM-DP-203, REV. 0

HJF

Analysis Report

Averages

Wed 12-11-96 08:29:29 PM

page 5

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.089	.0049	5.118	5.020
2	ICB	-.0034	-.0008	.0004	-.0032
3	LLS	.0985	-.0012	.0216	.0166
4	ICSA	-.0042	.0054	.0035	-.0053
5	ICSAB	.4769	.0054	.9667	-.0049
6	PREPBLKTJA	-.0049	-.0014	-.0001	-.0049
7	S96T005352 L	-1.646	-.3772	.7296	-1.340
8	S96T005352	-.3340	-.0837	.0046	-.2926
9	S96T005352 D	-.3490	-.0806	-.0473	-.2839
10	S96T005352 A	41.54	-.0158	41.46	40.93
11	S96T005352 X	.1791	.4710	-1.386	417.1
12	CCV	5.243	.0041	5.181	5.200
13	CCB	-.0060	-.0014	.0008	-.0053
14	S96T005343	-.2843	-.0683	.0081	-.2456
15	S96T005343 D	-.3019	-.0718	-.3957	-.2325
16	S96T005353 L	-1.440	-.3303	-.2264	-1.273
17	S96T005353	-.2672	-.0650	-.0099	-.2514
18	S96T005353 D	-.2698	-.0729	-.1784	-.2417
19	S96T005353 A	41.31	-.0028	41.46	40.53
20	S96T005353 X	-.0854	.4388	-1.466	426.2
21	ICSA	-.0146	.0034	.0033	-.0117
22	ICSAB	.4866	.0032	.9803	-.0129
23	CCV	5.200	.0031	5.138	5.127
24	CCB	-.0074	-.0020	.0011	-.0062

52
12/11/96

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2004

SD-WM-DP-203, REV. 0

Page: 1

LABCORE Data Entry Template for Worklist# 14830

Analyst: B. Godek Instrument: ICP01 Book# 64844Method: LA-505-151/161 Rev/Mod B-1

Worklist Comment: ICP BY-111 (FUSION)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	LLS		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	PREPELKTJA		@ICP-F01	SOLID		
7	SERDIL	S96T005387 0 F	@ICP-F01	SOLID		
8	SAMPLE	S96T005387 0 F	@ICP-F01	SOLID	96001336	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01, SM-F-01, SR-F-01, TI-F-01, TL-F-01, U-F-01, V-F-01, ZN-F-01, ZR-F-01						
9	DUP	S96T005387 0 F	@ICP-F01	SOLID		
10	SPK / ppm	S96T005387 0 F	@ICP-F01	SOLID		
11	Spike 10 ppm		@ICP-QC	QC		
12	CCV		@ICP-QC	QC		
13	SAMPLE	S96T005388 0 F	@ICP-F01	SOLID	96001336	BY-111
Analytes Requested: AG-F-01, AL-F-01, AS-F-01, B-F-01, BA-F-01, BE-F-01, BI-F-01, CA-F-01, CD-F-01, CE-F-01, CO-F-01, CR-F-01, CU-F-01, FE-F-01, K-F-01, LA-F-01, LI-F-01, MG-F-01, MN-F-01, MO-F-01, NA-F-01, ND-F-01, NI-F-01, P-F-01, PB-F-01, S-F-01, SB-F-01, SE-F-01, SI-F-01						

Data Entry Comments:

Single result calculation:

$$S96T005387 \text{ Al} = 83.40 \frac{\mu\text{g}}{\text{ml}} \times \frac{1}{2.1979 \frac{\text{L}}{\text{L}} \times \frac{1}{100\text{ml}}} = 3.802 + 4 \frac{\mu\text{g}}{\text{g}}$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

11/08/96 13:53

A-0004-1

HUF
WHE
3747

SD-WM-DP-203, REV. 0

Page: 2

LABCORE Data Entry Template for Worklist# 14830

S Type	Sample#	R A	Test	Matrix	Group#	Project
			SM-F-01 , SR-F-01 , ZN-F-01 , ZR-F-01	TI-F-01 , TL-F-01 , U-F-01 , V-F-01 ,		
14 DUP	S96T005388	0 F	⊗ICP-F01	SOLID		
15 ICSA			⊗ICP-QC	QC		
16 ICSAB			⊗ICP-QC	QC		
17 CCV			⊗ICP-QC	QC		
18 CCB			⊗ICP-QC	QC		

Final page for worklist # 14830

[Signature] 12-11-96
Analyst Signature Date

Reviewed by:
[Signature] 12/12/96
Analyst Signature Date

D.F.
1
200
40
40
40
40
40
40

PMSDOK TTX .250 - 9.75
 S96T005387-L .250 - 9.75 - 2-8
 5387 .250 - 9.75
 5387-D .250 - 9.75
 5387-A .250 - 2(5387) - 2.75
 5387-X .250 - 1-14(WHCN) - 2.75
 S96T005387 .250 - 9.75
 5387-D .250 - 9.75

Data Entry Comments:

Spike recovery calculation:

$$S96T005387 \quad \text{al} = \frac{(118.9)}{40} - \frac{(83.40)}{40} \times 100 = 88.8\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: Spike true value is 1.0 off - for all checks & cys for U=2.0 off.

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WHO-SD-WM-DP-203, REV. 0

Analysis Report

Summary

Wed 12-11-96 05:19:18 PM

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	961211F	ICP2	12/11/96	16:17	BJG	Q	CONC
2	ICB	961211F	ICP2	12/11/96	16:20	BJG	Q	CONC
3	LLS	961211F	ICP2	12/11/96	16:22	BJG	Q	CONC
4	ICSA	961211F	ICP2	12/11/96	16:25	BJG	Q	CONC
5	ICSAB	961211F	ICP2	12/11/96	16:28	BJG	Q	CONC
6	PREPBLKTJA	961211F	ICP2	12/11/96	16:32	BJG	S	CONC
7	S96T005387_L	961211F	ICP2	12/11/96	16:35	BJG	S	CONC
8	S96T005387	961211F	ICP2	12/11/96	16:38	BJG	S	CONC
9	S96T005387_D	961211F	ICP2	12/11/96	16:41	BJG	S	CONC
10	S96T005387_A	961211F	ICP2	12/11/96	16:44	BJG	S	CONC
11	S96T005387_X	961211F	ICP2	12/11/96	16:47	BJG	S	CONC
12	CCV	961211F	ICP2	12/11/96	16:50	BJG	Q	CONC
13	CCB	961211F	ICP2	12/11/96	16:54	BJG	Q	CONC
14	S96T005388	961211F	ICP2	12/11/96	16:57	BJG	S	CONC
15	S96T005388_D	961211F	ICP2	12/11/96	17:00	BJG	S	CONC
16	ICSA	961211F	ICP2	12/11/96	17:04	BJG	Q	CONC
17	ICSAB	961211F	ICP2	12/11/96	17:07	BJG	Q	CONC
18	CCV	961211F	ICP2	12/11/96	17:10	BJG	Q	CONC
19	CCB	961211F	ICP2	12/11/96	17:13	BJG	Q	CONC

HNF

12-11-96

By-III FUSION

290-1.875-1

S96T005387, S388

File# 0961211F.TXT

Ma failed in the first post spike. A second post spike was made and the result is:

$$Ma = \frac{\left(\frac{876.6}{40}\right) - \left(\frac{512.6}{40}\right)}{10} \times 100 = 91.0\%$$

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 617 TO 626.