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APR 17 1995
55 Sta. 5

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT 610416

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) Characterization Plans and Reports	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: Tank 241-TY-106/Waste Management/CPR/Char. Eng.	6. Cog. Engr.: Jaiduk Jo	7. Purchase Order No.: N/A
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15. DATA TRANSMITTED

(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	(F) Approval Designator	(G) Reason for Transmittal	(H) Originator Disposition	(I) Receiver Disposition
1	WHC-SD-WM-DP-102	N/A	0	45-Day Safety Screen Results for Tank 241-TY-106, Auger Samples, 95-AUG-010 and 95-AUG-011	Q	2	1	

16. KEY

Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec.12.7)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

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2	1	Cog.Eng. J. Jo	Jaiduk Jo	4/13/95	R2-12						
2	1	Cog. Mgr. J.G. Kristofzski		4/13/95	T6-04						
2	1	QA W.A. Hendricksen		4/13/95	T6-03						
		Safety									
		Env.									

18.	19.	20.	21. DOE APPROVAL (if required)
A.E. Young 4-12-95 Signature of EDT Originator Date	Authorized Representative for Receiving Organization Date	J.G. Kristofzski 4/13/95 Cognizant Manager Date	Ctrl. No. [] Approved [] Approved w/comments [] Disapproved w/comments

BD-7400-172-2 (04/94) GEF097

BD-7400-172-1

9513338.2352

RELEASE AUTHORIZATION

Document Number:	WHC-SD-WM-DP-102, REV.0
Document Title:	45-Day Safety Results for the Tank 241-TY-106, Auger Samples, 95-AUG-010 and 95-AUG-011
Release Date:	April 17, 1995

This document was reviewed following the procedures described in WHC-CM-3-4 and is:

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Kara M. Broz — April 17, 1995

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SUPPORTING DOCUMENT

1. Total Pages 34

2. Title	3. Number	4. Rev No.
45-Day Safety Screen Results for Tank 241-TY-106, Auger Samples, 95-AUG-010 and 95-AUG-011	WHC-SD-WM-DP-102	0

5. Key Words	6. Author
45-Day Safety Screen, Safety Screen, Safety Screen Results, Tank 241-TY-106, Tank TY-106, TY-106, Auger Samples, 95-AUG-010, 95-AUG-011	Name: Jaiduk Jo Signature Organization/Charge Code 8E480/MDR21

7. Abstract

N/A

8. RELEASE STAMP

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A-6400-073 (08/94) WEF124

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Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-102, REV. 0

ANALYTICAL SERVICES

45-DAY SAFETY SCREEN RESULTS FOR TANK 241-TY-106, AUGER SAMPLES 95-AUG-010 AND 95-AUG-011

Date Printed: APRIL 14, 1995

9513338.2355

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Worklist # 730 19
Worklist # 731 28

This document consists of pages 1 through 31.

9513338.2356

NARRATIVE

Summary

Two auger samples from tank TY-106 were received at the 222-S Laboratories. These samples underwent safety screening analysis Differential Scanning Calorimetry (DSC), Thermogravimetric Analysis (TGA) and Alpha Total in accordance with reference (1) below. The test results indicate that no safety screening notification limits were exceeded.

Sample Receipt and Extrusion

Auger 95-AUG-010 (Riser 7)

Auger 95-AUG-010 was sampled on 3/3/95, and received at the 222-S laboratory on 3/3/95. Extrusion took place on 3/8/95, with the total amount of solid material recovered being 68.97 grams. No drainable or liner liquid was recovered. The large majority of sample was contained on flutes 17-20. What appeared to be the same material was present as a thin coating on the outside of flutes 1-16. Overall, the sample was medium brown in color and was very sticky with a paste-like consistency. Some of the sample was drier and not as sticky. The sub-sample was provided to the laboratory for analysis, and results appear in the summary table as sample numbers S95T000286 and S95T000288.

Auger 95-AUG-011 (Riser 6)

Auger 95-AUG-011 was sampled on 3/2/95, and received at the 222-S laboratory on 3/3/95. Extrusion took place on 3/8/95, with the total amount of solid material recovered being 84.55 grams. No drainable or liner liquid was recovered. The majority of sample was contained on flutes 11 through 19. Sample covering flutes 11 through 13 had a light olive green color, where as sample covering flutes 14 through 19 had a mixture of olive green and light brown material. Overall, the sample was very moist and runny with a soft paste-like consistency. The sample was divided into two half segments, and sub-samples were provided to the laboratory for analysis. Results appear in the summary table as sample numbers S95T000299, S95T000302 (upper half) and S95T000301, S95T000303 (lower half).

Analytical Results

TGA (Moisture)

The weight percent water by Thermogravimetric Analysis was performed using procedure LA-560-112, Rev. A-2 with a nitrogen purge. All results were above the notification limit (notification is made if the sample is analyzed at less than 17 percent water), therefore no notifications were made. All samples met the precision and accuracy criteria stated in reference (1) with an exception of sample S95T000299. TGA precision between the sample and duplicate for sample S95T000299 exceeded the acceptance criteria with a value of 14.4

Relative Percent Deviaton (RPD). The sample result was 37.17% water, the duplicate 32.2%. A third analysis was run with a result of 34.61%. This result does not appear on the table, but is included in the raw data.

DSC

Differential thermal analyses were performed using procedure LA-514-113, Rev. B-1 and a Mettler Model 20 Differential Scanning Calorimetry under a nitrogen purge. All results were below the safety screen notification limit of 481 joules/g (dry), therefore no notifications were made. All samples met the precision and accuracy criteria stated in reference (1)

Alpha Total

The Alpha Total analyses were performed using procedure LA-508-101, Rev. D-2. All alpha total results were below the notification limit. Two samples (S95T000302, S95T000303) slightly exceeded the precision criteria. Both samples demonstrated lower than normal spike recovery. Due to less than 3 orders of magnitude of the action limit for total alpha, a rerun was not requested. The results appear in the summary table. The Tank Characterization Plan (TCP) accuracy criteria was met in each case.

Reference: (1) WHC-SD-WM-TP-312, REV. 0, "Tank 241-TY-106 Tank Characterization Plan," dated February 22, 1995, Westinghouse Hanford Company, Richland, WA 99352

9513338.2359

SAMPLE DATA SUMMARY

45 Day Report
TY-106

CORE NUMBER: n/a
SEGMENT #: 95-AUG-010

SEGMENT PORTION: W Whole Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000286			% Water by TGA using Mettler	%	12.000	99999.00	99.49	n/a	30.28	30.8	30.54	1.64	n/a	0.000	n/a
S95T000286			DSC Exotherm Dry Calculated	Joules/g Dry	-1.000	481.100	n/a	n/a	0	n/a	n/a	n/a	n/a	0.000	n/a
S95T000286			DSC Exotherm using Mettler	Joules/g	-1.000	481.100	102.3	n/a	0	0	0.000	n/a	n/a	0.000	n/a
S95T000288			Alpha of Digested Solid	uCi/g	-1.000	41.100	95.27	<4.15e-03	< 4.15e-3	1.74e-2	n/a	n/a	92.20	0.009	500

=> Limit violated
=> Selected Limit

95 1550.2360

WHC-SD-WM-DP-102, REV. 0

5

45 Day Report
TY-106

CORE NUMBER: n/a
SEGMENT #: 95-AUG-011

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000299			% Water by TGA using Mettler	%	17.000	99999.00	99.49	n/a	37.17	32.2	34.69	14.4	n/a	0.000	n/a
S95T000299			DSC Exotherm Dry Calculated	Joules/g Dry	-1.000	481.100	n/a	n/a	0	n/a	n/a	n/a	n/a	0.000	n/a
S95T000299			DSC Exotherm using Mettler	Joules/g	-1.000	481.100	102.3	n/a	0	0	0.000	n/a	n/a	0.000	n/a
S95T000302		F	Alpha of Digested Solid	uCi/g	-1.000	41.100	91.76	<2.84e-03	1.95e-2	2.18e-2	2.07e-02	11.1	86.90	0.007	31.0

SEGMENT PORTION: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits Lower	Action Limits Upper	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T000301			% Water by TGA using Mettler	%	17.000	99999.00	100.1	n/a	39.18	39.16	39.17	0.05	n/a	0.000	n/a
S95T000301			DSC Exotherm Dry Calculated	Joules/g Dry	-1.000	481.100	n/a	n/a	0	n/a	n/a	n/a	n/a	0.000	n/a
S95T000301			DSC Exotherm using Mettler	Joules/g	-1.000	481.100	104.4	n/a	0	0	0.000	n/a	n/a	0.000	n/a
S95T000303		F	Alpha of Digested Solid	uCi/g	-1.000	41.100	91.76	<2.84e-03	< 1.98e-2	<2.70e-2	n/a	n/a	86.40	0.033	500.0

=> Limit violated
=> Selected Limit

9513338.2362

SAMPLE ANALYSES RESULTS - DIRECT

9513338.2363

LABCORE Data Entry Template for Worklist# 722

Analyst: SMF **Instrument:** DSC01 _____ **Book #** 12 N14-A

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

WHC-SD-WM-DP-102, REV. 0

Worklist Comment: Please run TY-106 DSC under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	29.1	N/A	Joules/g
95000021	TY-106	2 SAMPLE	S95T000286	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000021	TY-106	3 DUP	S95T000286	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000022	TY-106	4 SAMPLE	S95T000299	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000022	TY-106	5 DUP	S95T000299	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 722

Susie M. Fulton 3-31-95
Analyst Signature **Date**

[signature] 3-3-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 4-5-95

Data Entry Comments: Samples are light brown clay like mud with small hard bits.

S95T000286 produced two endotherms one at 119.1°C with a delta H of 934.8 J/g and the second at ~~47.3 J/m~~ 297.0°C with a delta H of 47.3 J/g

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.

S95T000299 produced two endotherms one at 115.7°C with a delta H of 801.8 J/g and the second at 297 with a delta H of 33.6 J/g.

DSC STD 12N14-A

6.525 mg

Rate: 10.0 °C/min

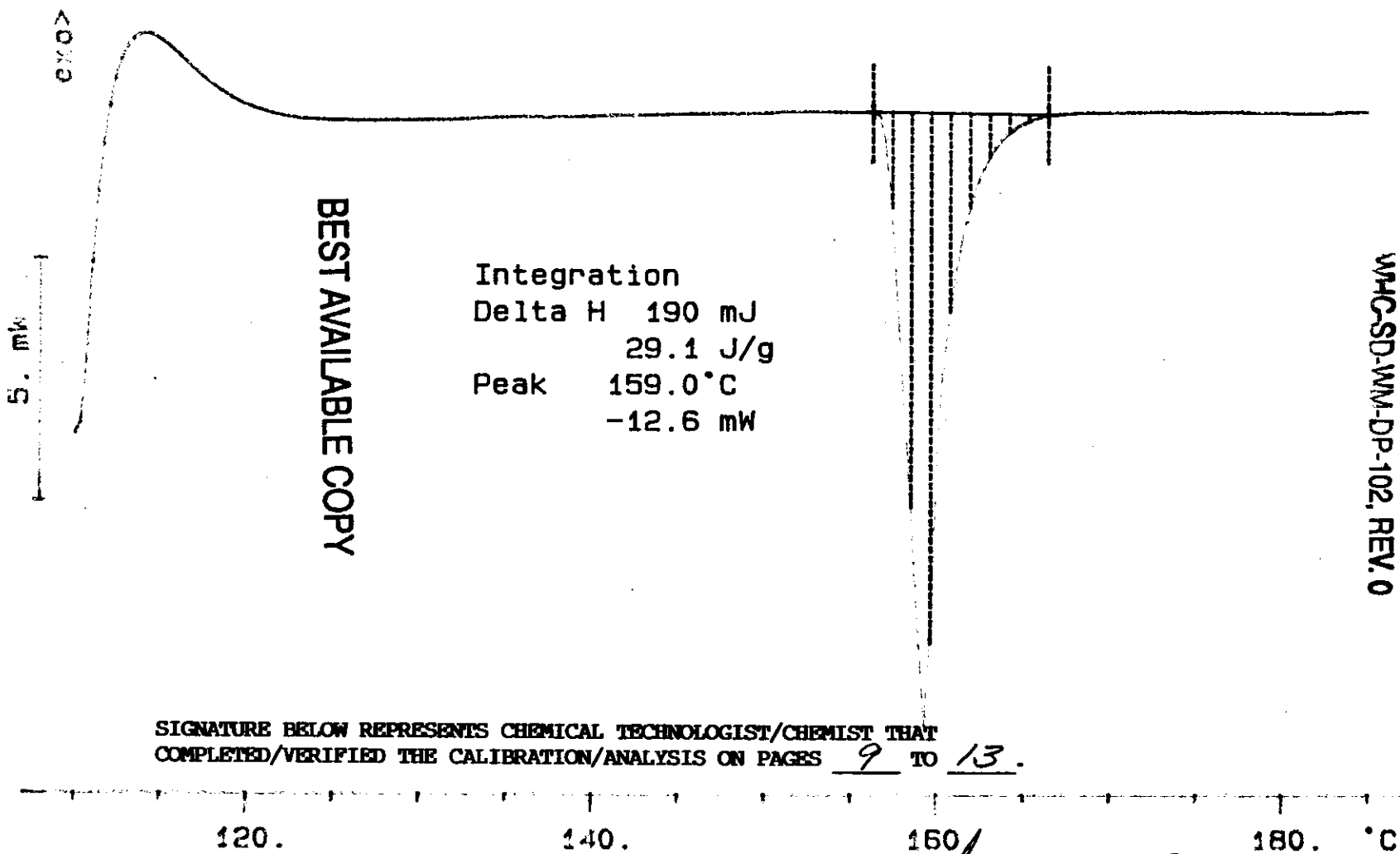
File: 00015.001

Ident: 0.0

DSC METTLER

222-S Laboratory

31-Mar-95



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WHC-SD-WM-DP-102, REV. 0

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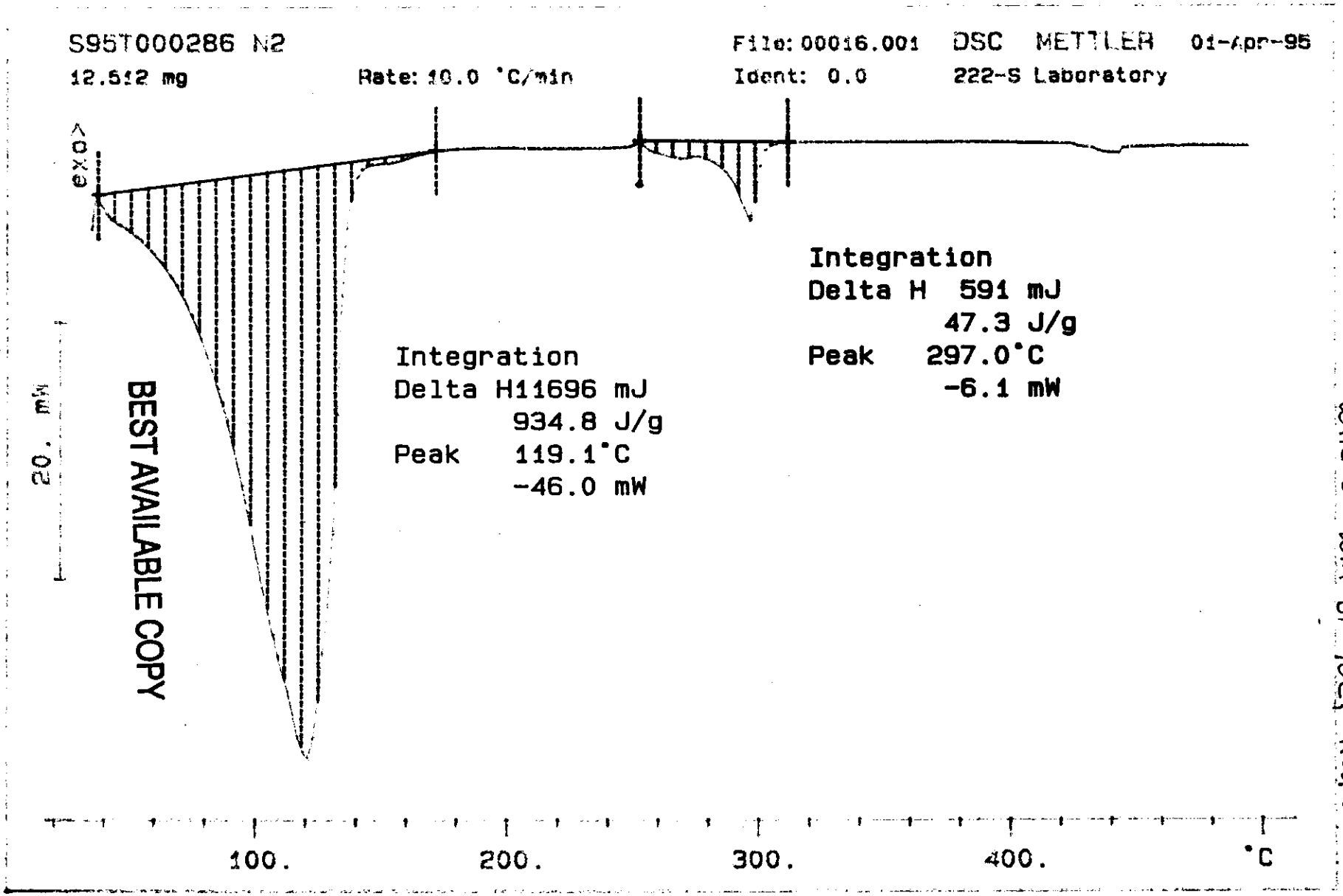
Susie M. Fulton 3-31-95



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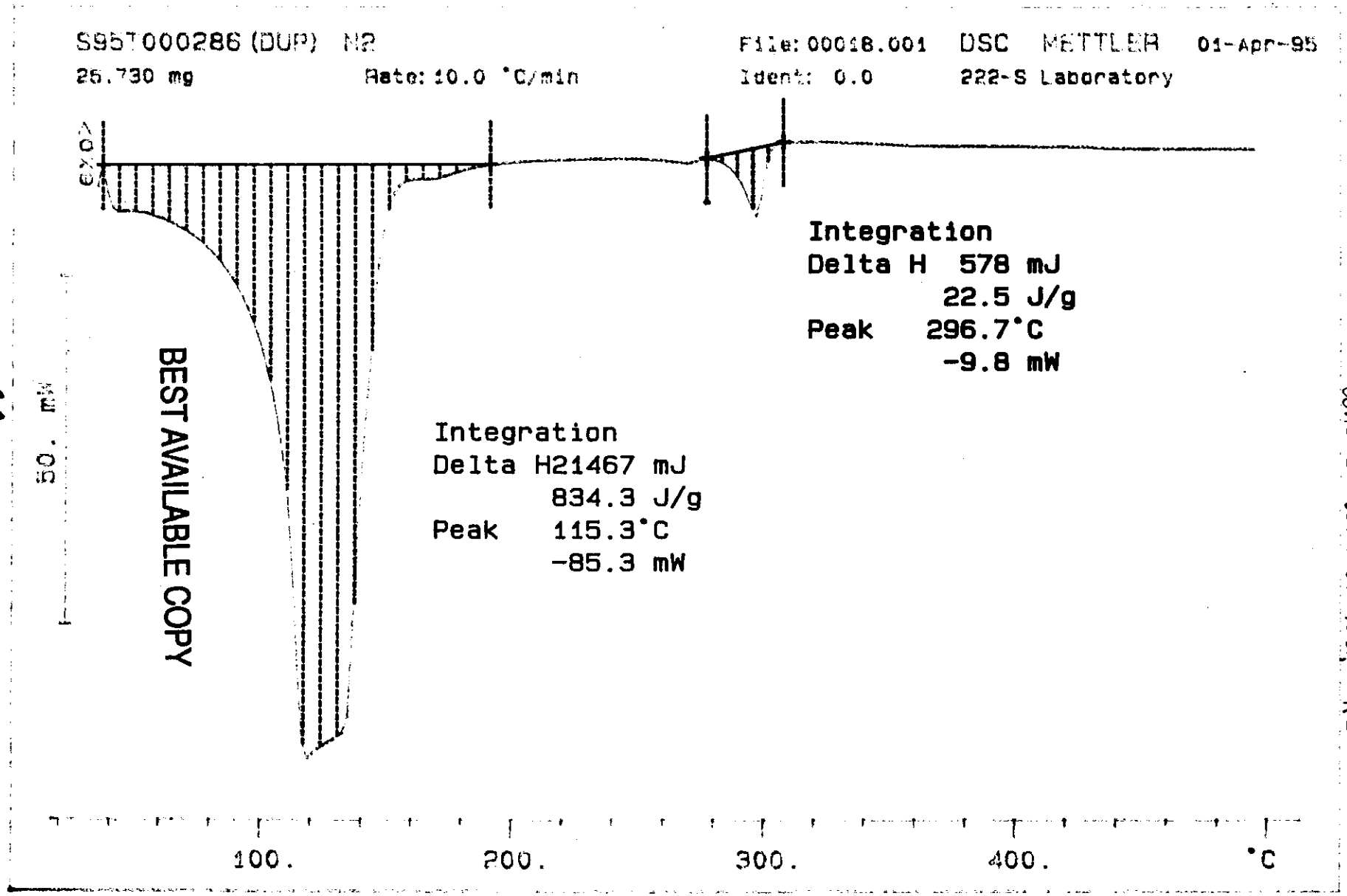
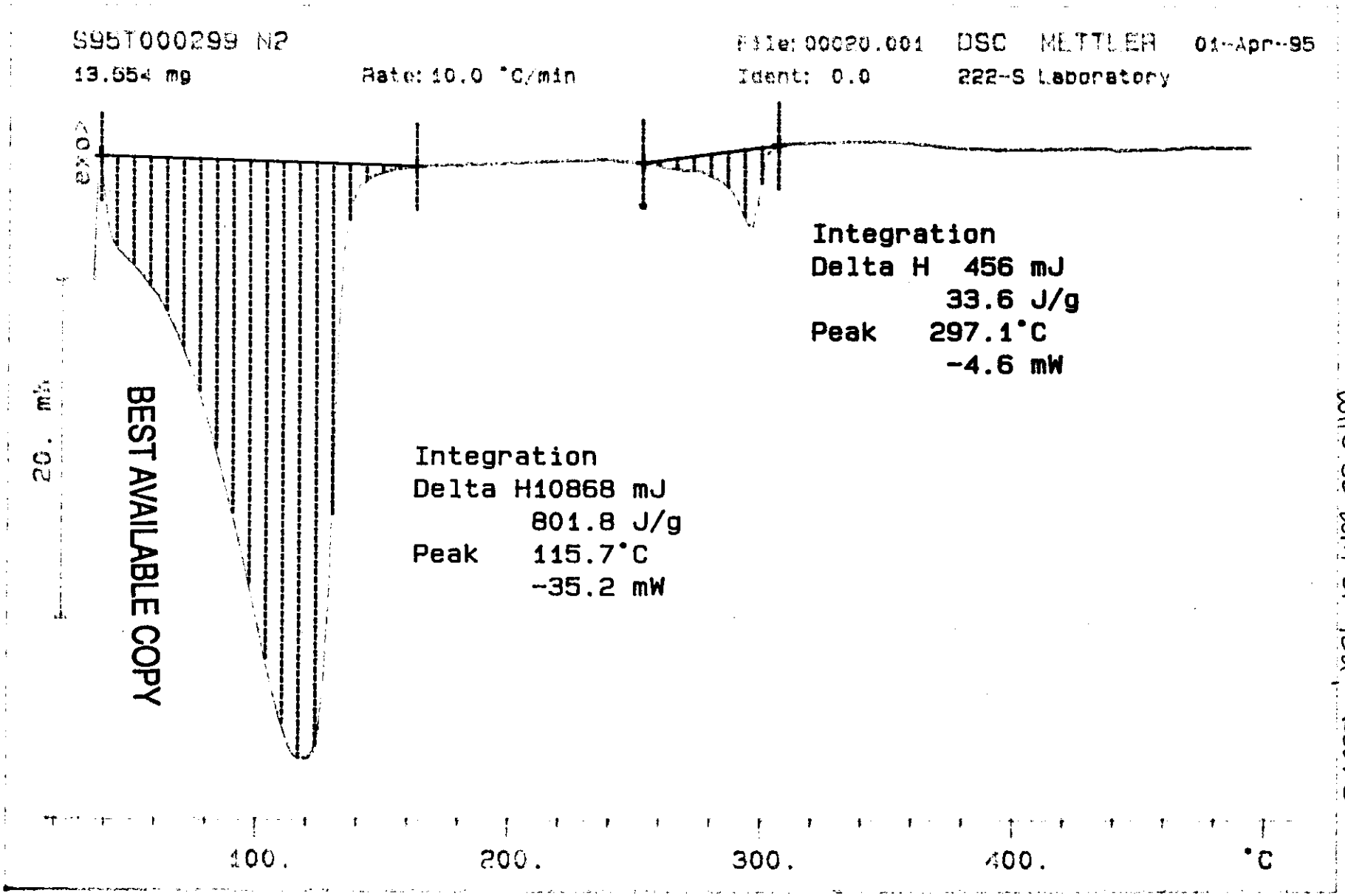


95T000286
WHC-SD-WM-DP-102, REV. 0



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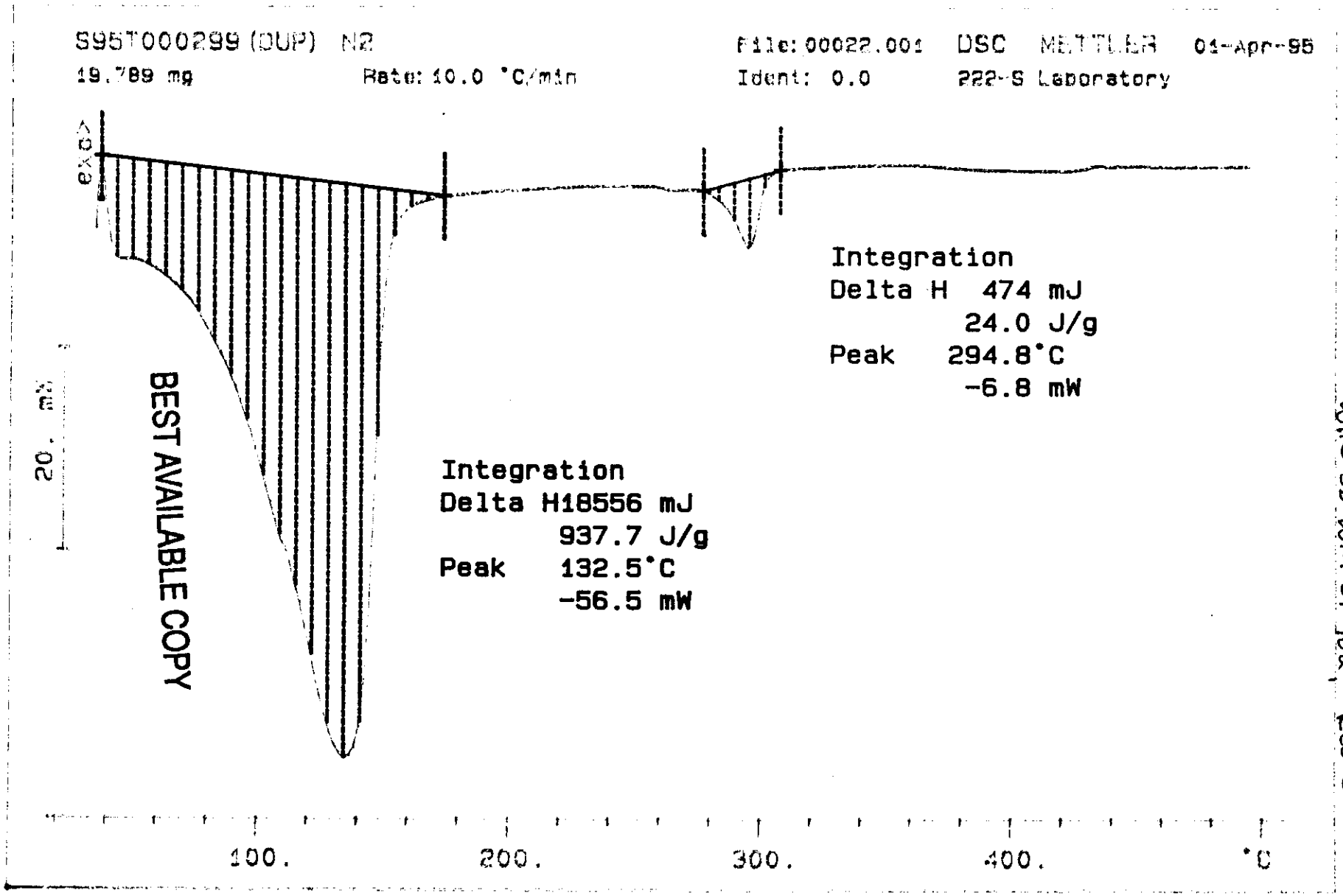
9513368.2367
WHC-SD-WM-DP-102, Rev. 0



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9513338.2369

LABCORE Data Entry Template for Worklist# 723

Analyst: SMF **Instrument:** DSC01 _____ **Book #** 12N14-A

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

Worklist Comment: Please run TY-106 DSC under N2. bdv WHC-SD-WM-DP-102, REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID	28.45	29.7	N/A	Joules/g
95000022	TY-106	2	SAMPLE	S95T000301	0		DSC-01	SOLID	N/A	Ø		Joules/g
95000022	TY-106	3	DUP	S95T000301	0		DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 723

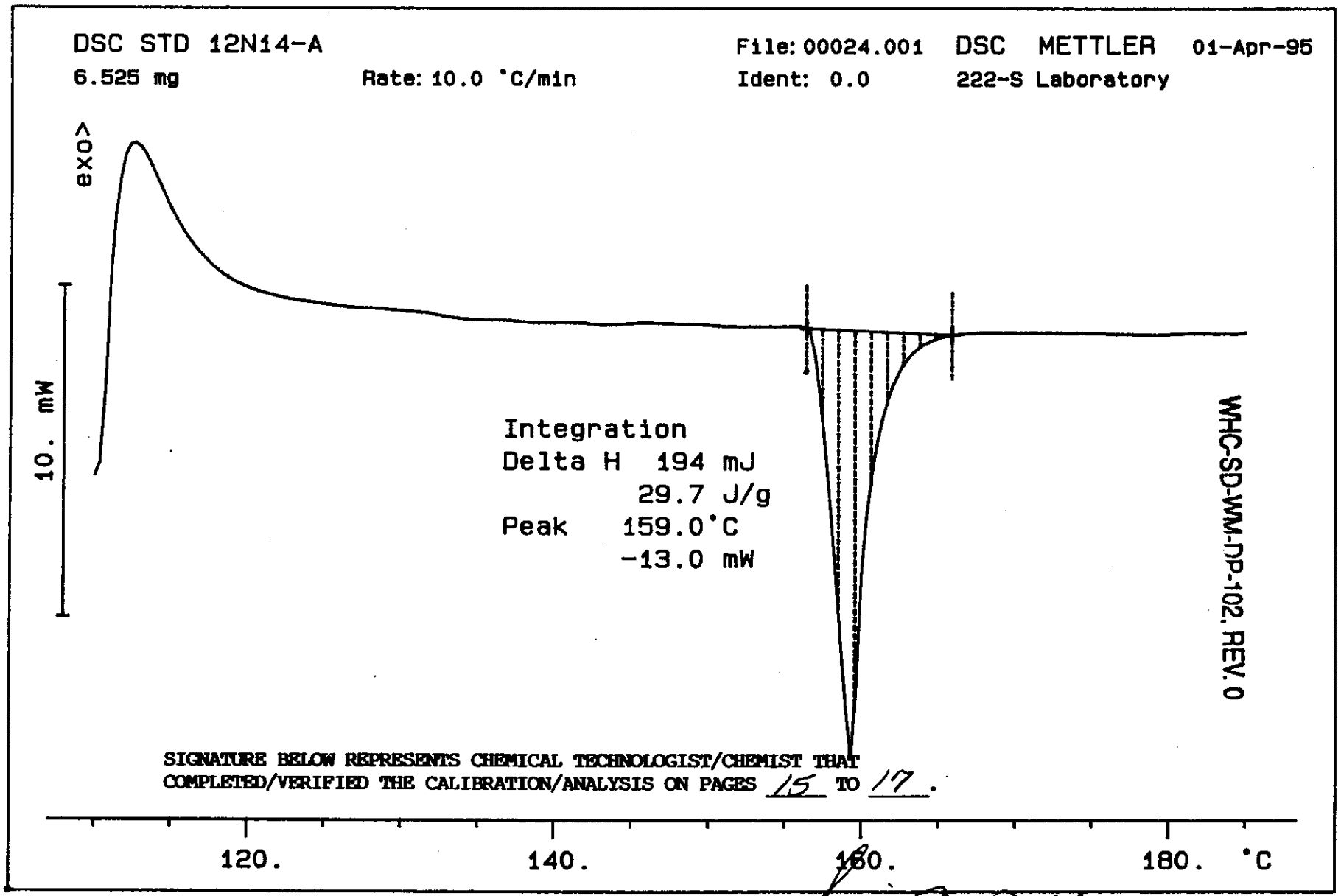
Susie M. Fulton 4-1-95
Analyst Signature **Date**

[signature] 4-3-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 4-5-95

Data Entry Comments: Sample a med brown smooth mud. S95T000301 produced two endotherms first one at 123.3°C with a delta H of 1023.1 J/g and the second at ~~32.2 J/g~~ 296.8°C with a delta H of 32.2 J/g. 4/5/95 BDV

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.

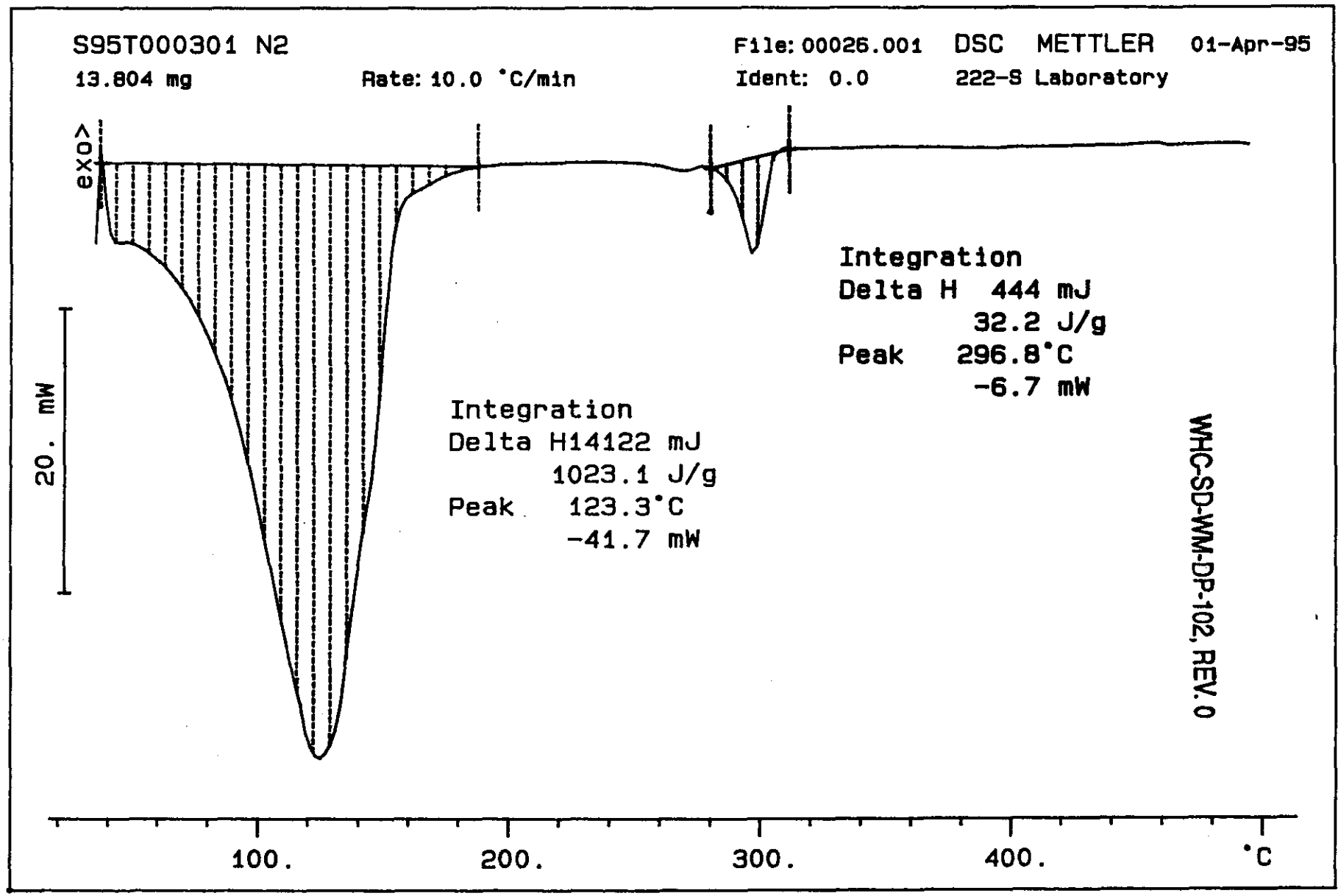


WHC-SD-WM-DP-102, REV. 0

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 15 TO 17.

Susie M. Fulton 4-1-95

9513558.2370



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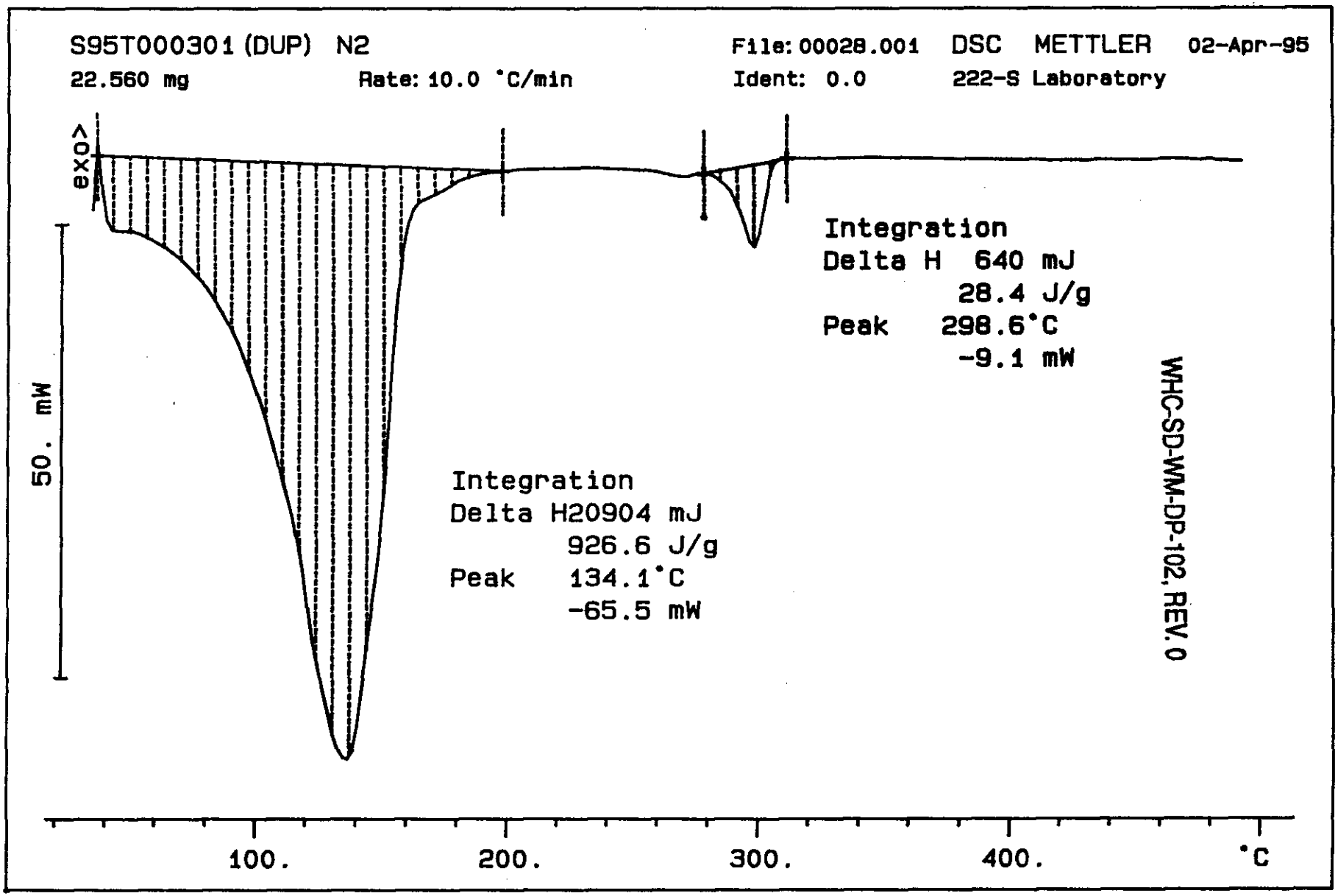

WHC-SD-WM-DP-102, REV. 0

9513398.2372

LABCORE Data Entry Template for Worklist# 1094

Analyst: JMF **Instrument:** DSC01 _____ **Book #** N/A

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

Worklist Comment: Dry DSC TY-106. JMF WHC-SD-WM-DP-102, REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000021	TY-106	1	SAMPLE	S95T000286	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000022	TY-106	2	SAMPLE	S95T000299	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000022	TY-106	3	SAMPLE	S95T000301	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry

Final page for worklist # 1094

Jane M. Frye 4/11/95
Analyst Signature **Date**

Analyst Signature **Date**

Entered + Verified 4/11/95 J M Frye

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.

9513558.2374

LABCORE Data Entry Template for Worklist# 730

Analyst: SMF **Instrument:** DSC01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run TY-106 TGA under N2. bdv WHC-SD-WM-DP-102, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.19	58.70	N/A	%
95000021	TY-106	2 SAMPLE	S95T000286	0		TGA-01	SOLID	N/A	30.28		%
95000021	TY-106	3 DUP	S95T000286	0		TGA-01	SOLID	30.28	30.80	N/A	%
95000022	TY-106	4 SAMPLE	S95T000299	0		TGA-01	SOLID	N/A	37.17		%
95000022	TY-106	5 DUP	S95T000299	0		TGA-01	SOLID	37.17	32.17	N/A	%
		6 STD				TGA-01	SOLID	59.19	58.86	N/A	%
95000022	TY-106	7 DUP2	S95T000299	0		TGA-01	SOLID	37.17	34.61	N/A	%

Final page for worklist # 730

See attached for signatures

Analyst Signature **Date** 4-4-95

Analyst Signature **Date**

Verified by Blandina Valenzuela 4-5-95

Data Entry Comments: Samples are a light brown clay like mud with small hard bits. The DUP2 of sample S95T000299 was run a couple of days ~~before~~ after 4/3/95 on 4/7/95 BDV analysis was run, when chemist was able to review data. A new standard was run on the same day as the DUP2

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# 730

Analyst: SMF **Instrument:** DSC01 **Book #** 42N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run TY-106 TGA under N2. bdv WHC-SD-WM-DP-102. REV. 0

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID	59.19	58.70	N/A	%
95000021	TY-106	2	SAMPLE	S95T000286	0		TGA-01	SOLID	N/A	30.28		%
95000021	TY-106	3	DUP	S95T000286	0		TGA-01	SOLID	30.28	30.80	N/A	%
95000022	TY-106	4	SAMPLE	S95T000299	0		TGA-01	SOLID	N/A			%
95000022	TY-106	5	DUP	S95T000299	0		TGA-01	SOLID			N/A	%

Final page for worklist # 730

Susie M. Sutton 3-31-95

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments: Samples are a light brown clay like mud with small hard bits.

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.

TGA STD 42N8-A File: 00014.001 TG METTLER 31-Mar-95

13.733 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

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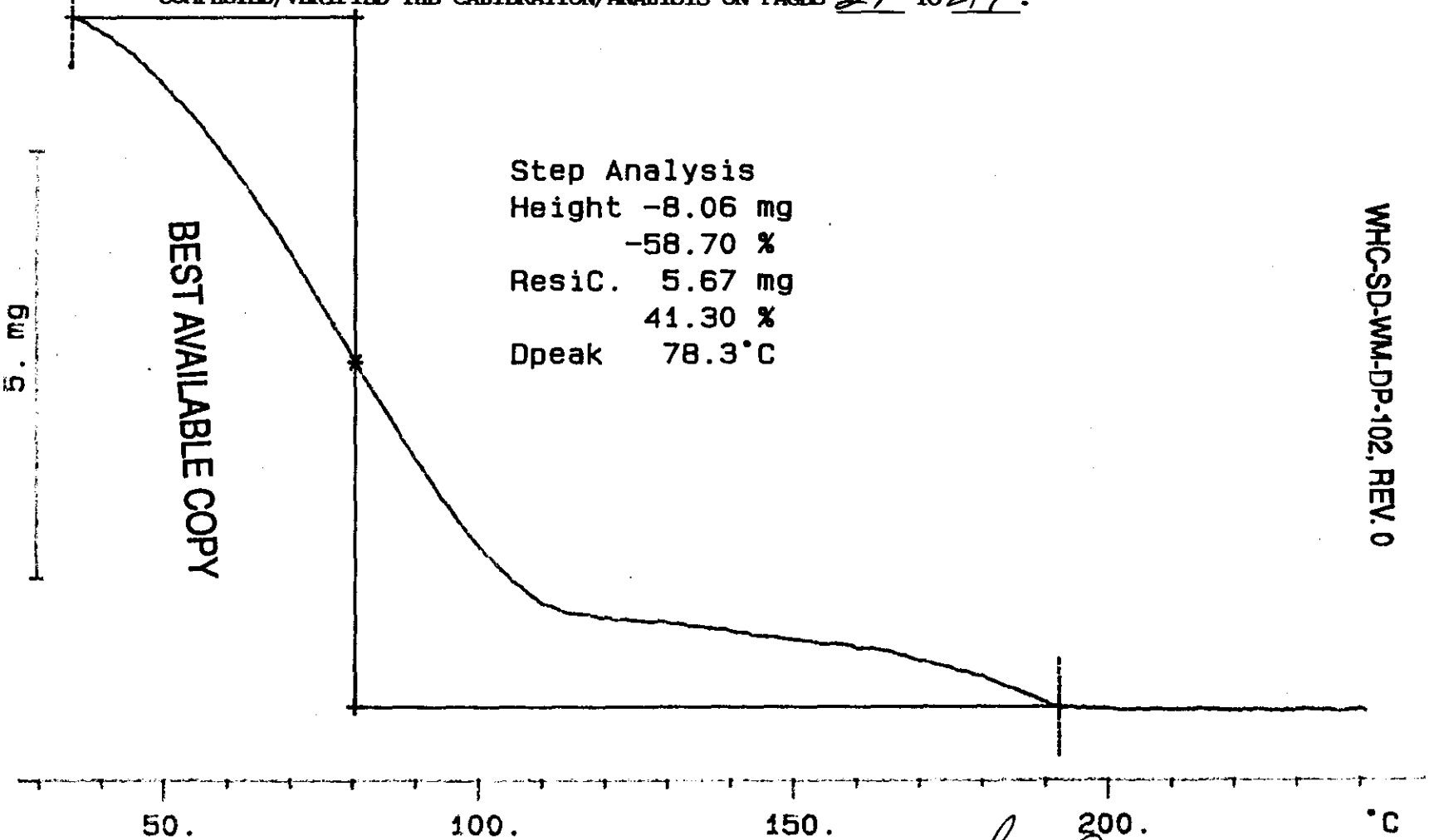

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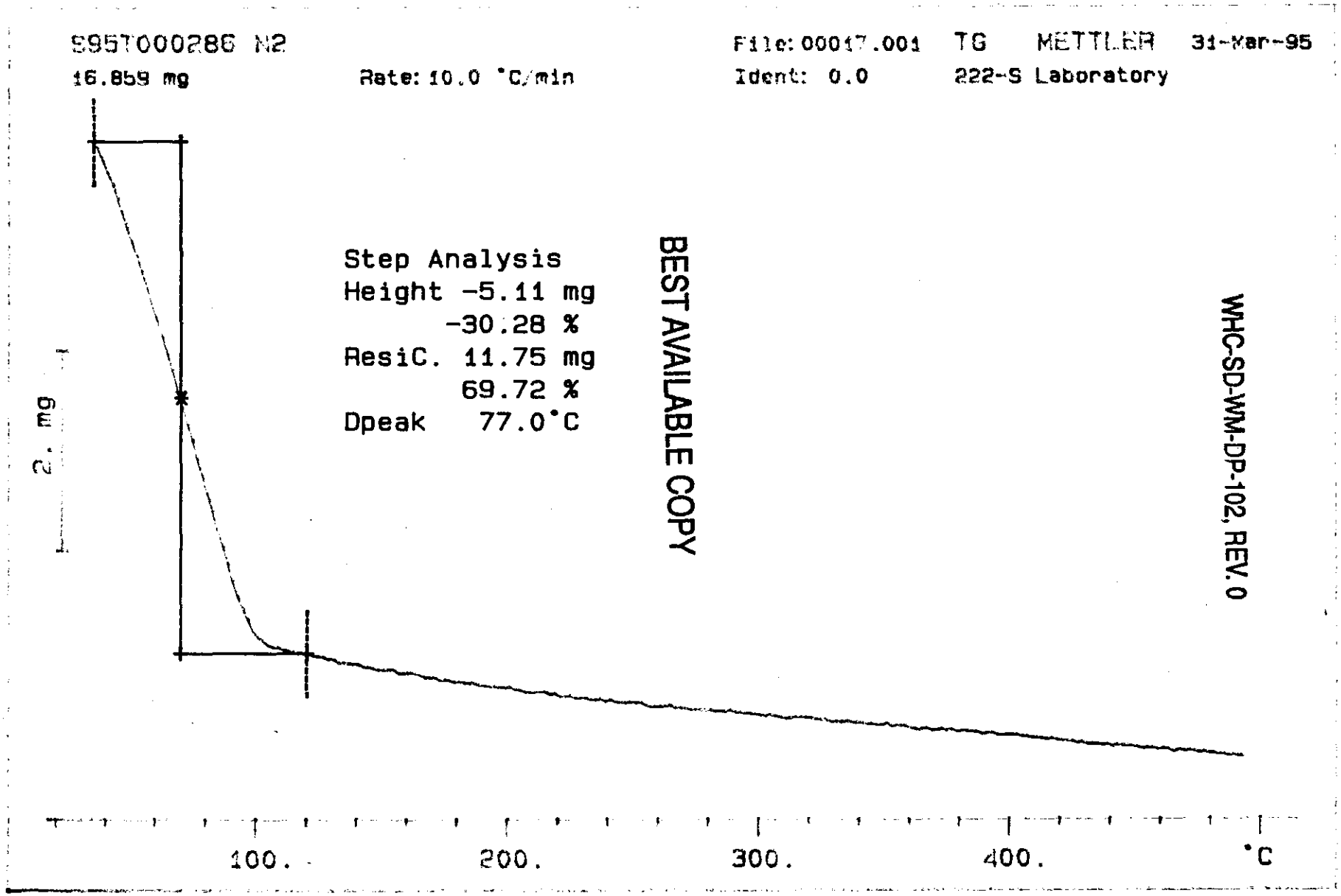

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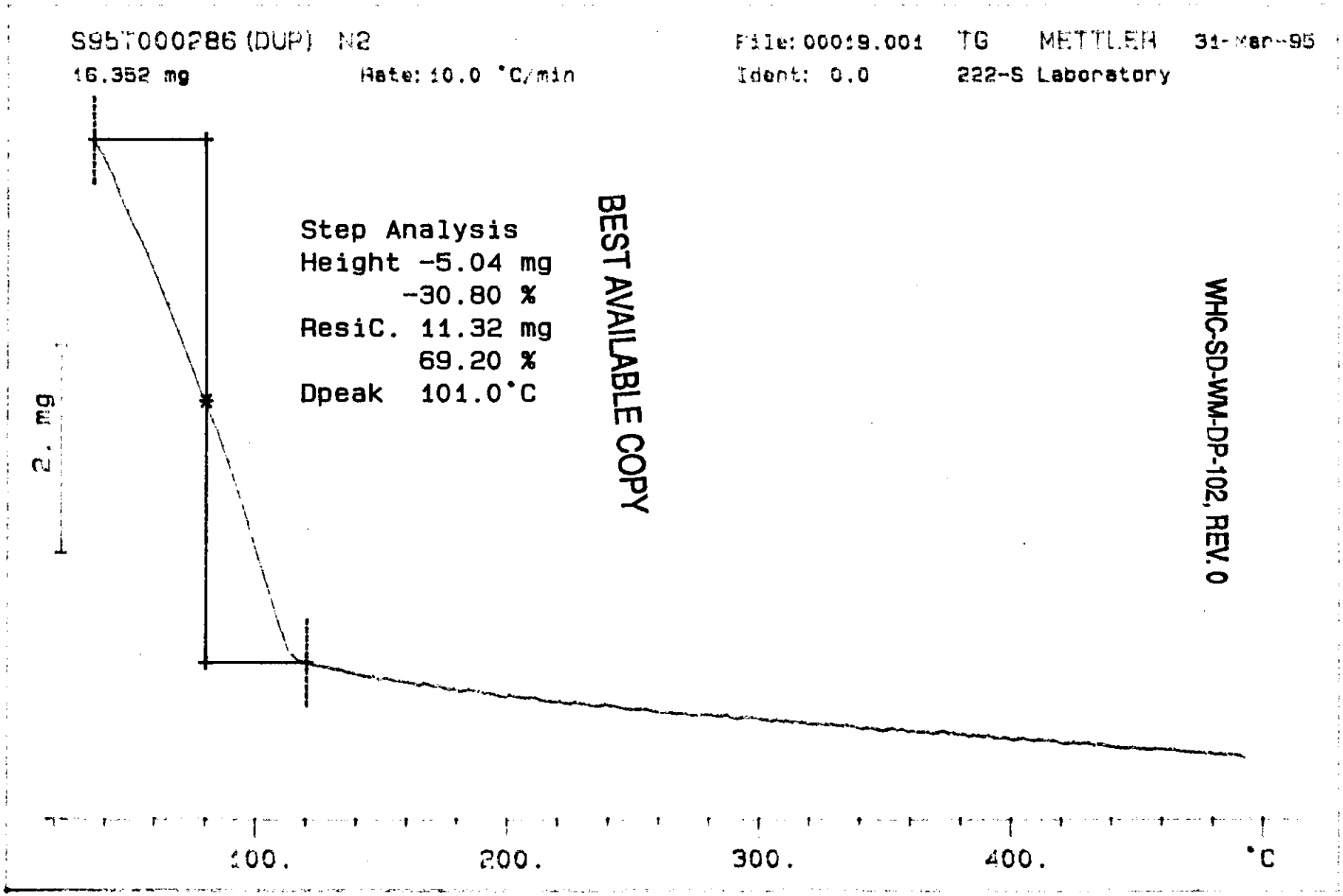

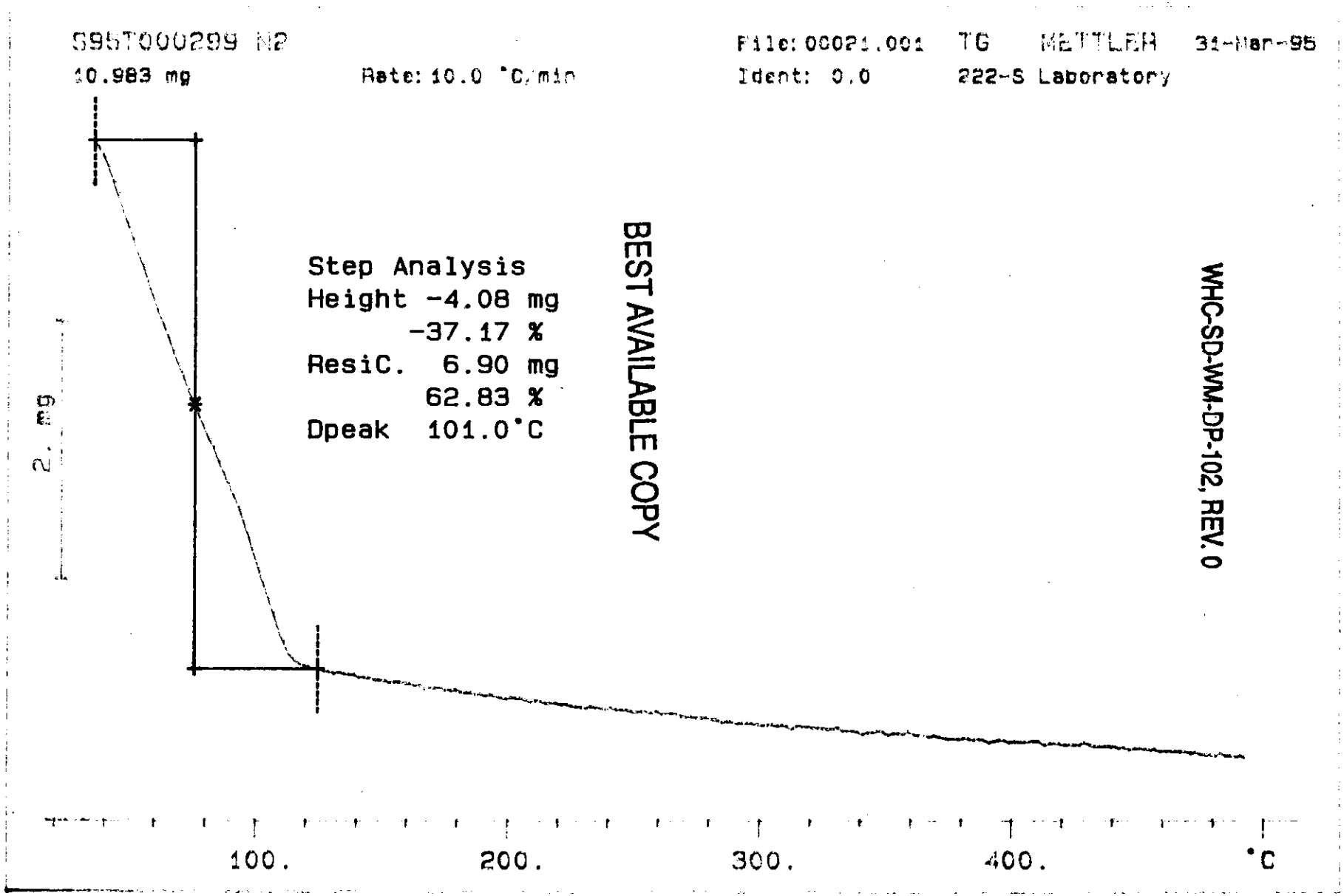

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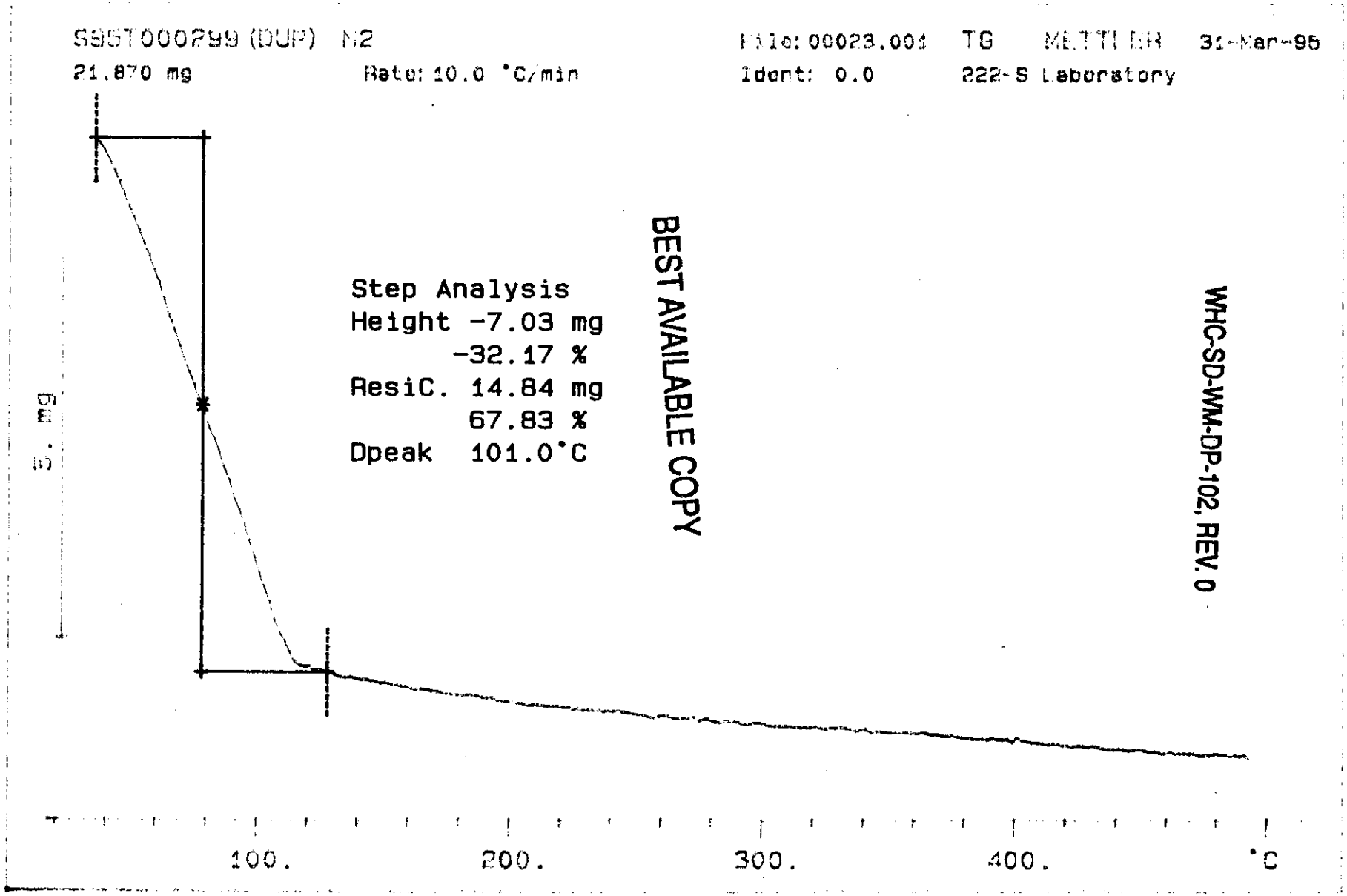

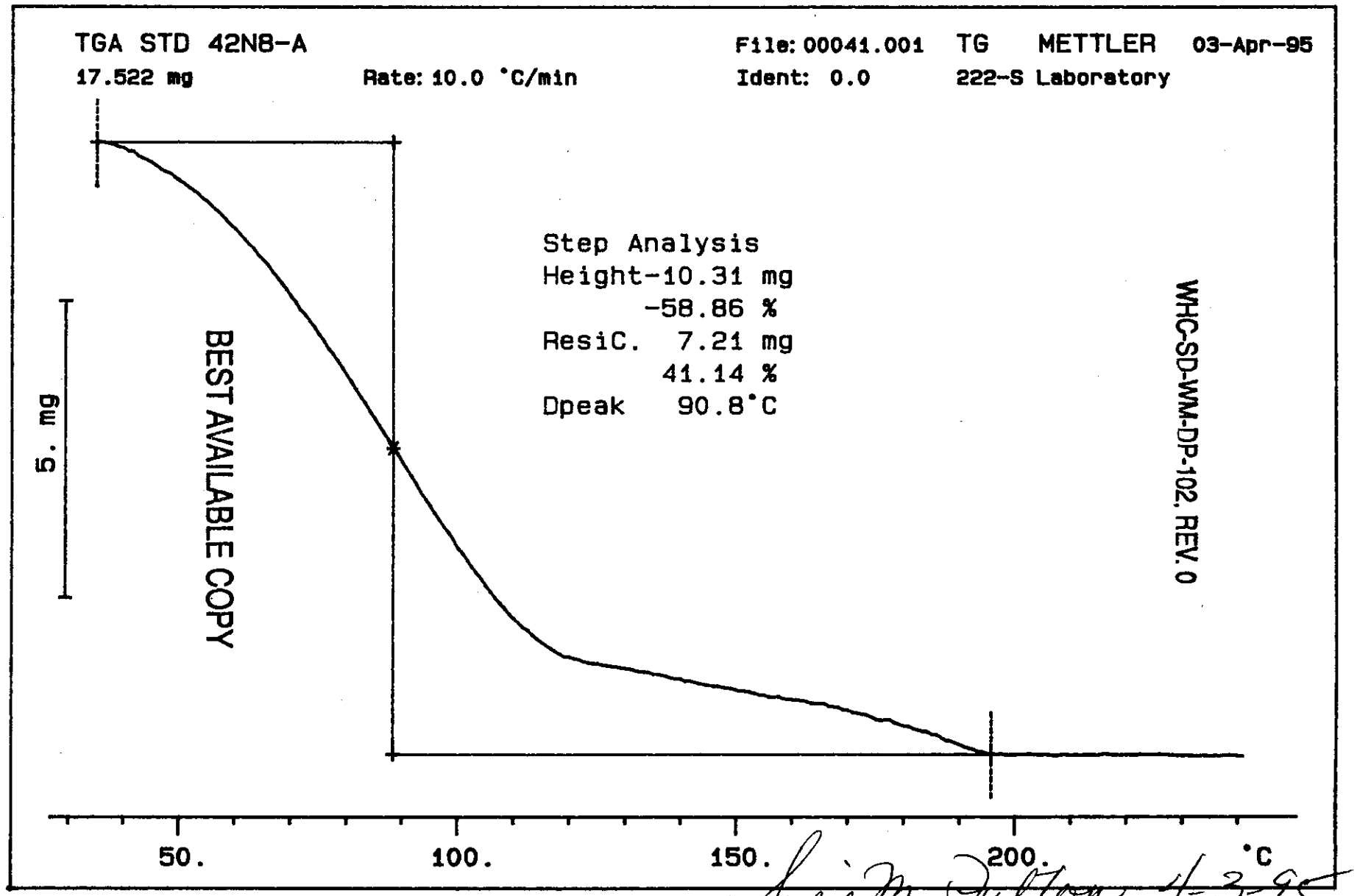

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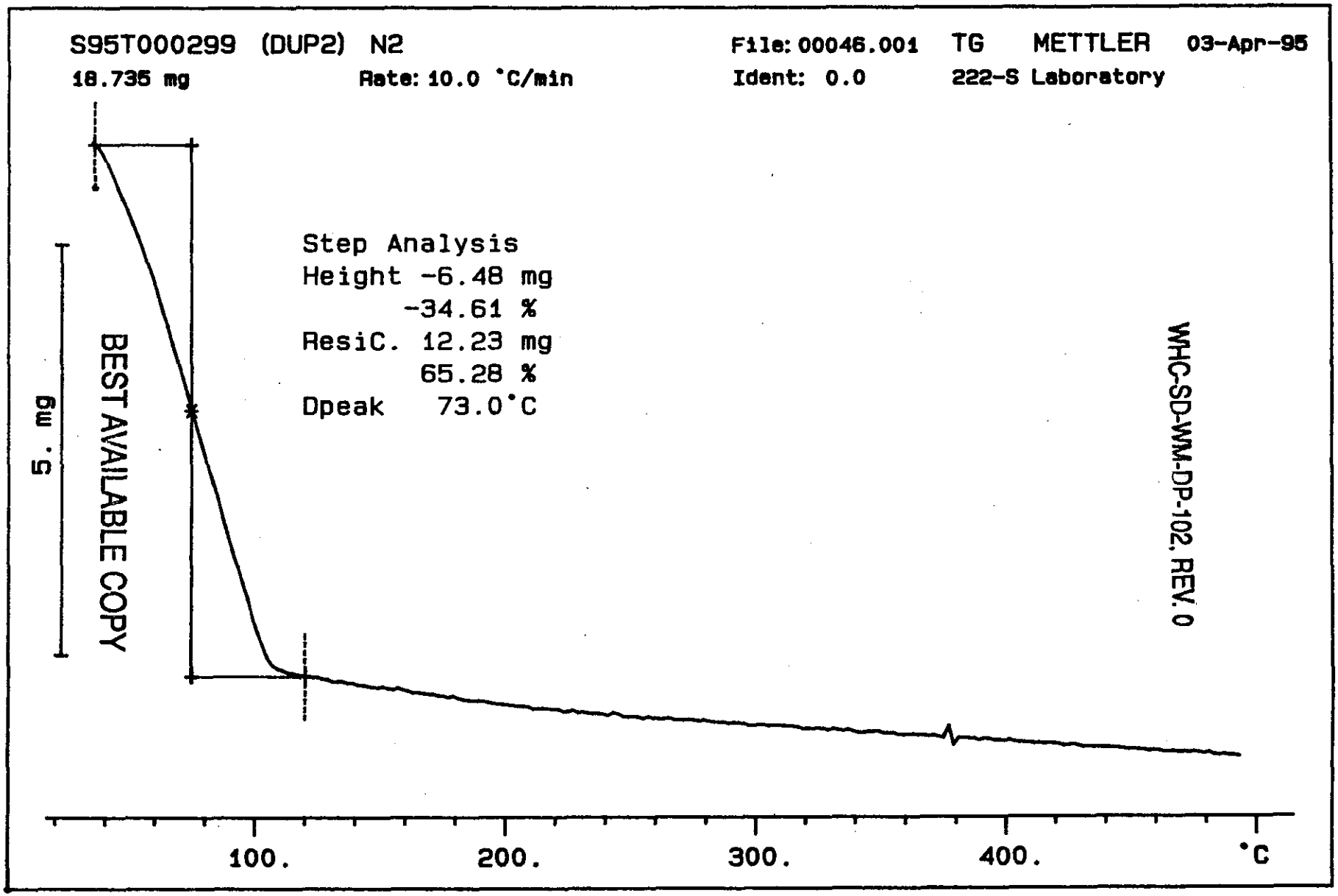
Susie M. Dutton 4-3-95

9513338.2381



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worklistrpt Version 2.0 02/21/95
03/21/95 09:16

LABCORE Data Entry Template for Worklist# 731

Analyst: SMF **Instrument:** ~~DSC01~~ TGA01 4/4/95 BDV **Book #** 412N8-A

Method: LA-560-112 Rev/Mod A-2

Worklist Comment: Please run TY-106 TGA under N2. bdv

WHC-SD-WM-DP-102, REV. 0

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.19	59.26	N/A	%
95000022	TY-106	2 SAMPLE	S95T000301	0		TGA-01	SOLID	N/A	39.18		%
95000022	TY-106	3 DUP	S95T000301	0		TGA-01	SOLID	39.18	39.16	N/A	%

Final page for worklist # 731

Susie M. Fulton 4-1-95
Analyst Signature **Date**

[illegible] 4-3-95
Analyst Signature **Date**

Verified by Blandina Valenzuela 4-5-95

Data Entry Comments: Sample a med. brown smooth mud.

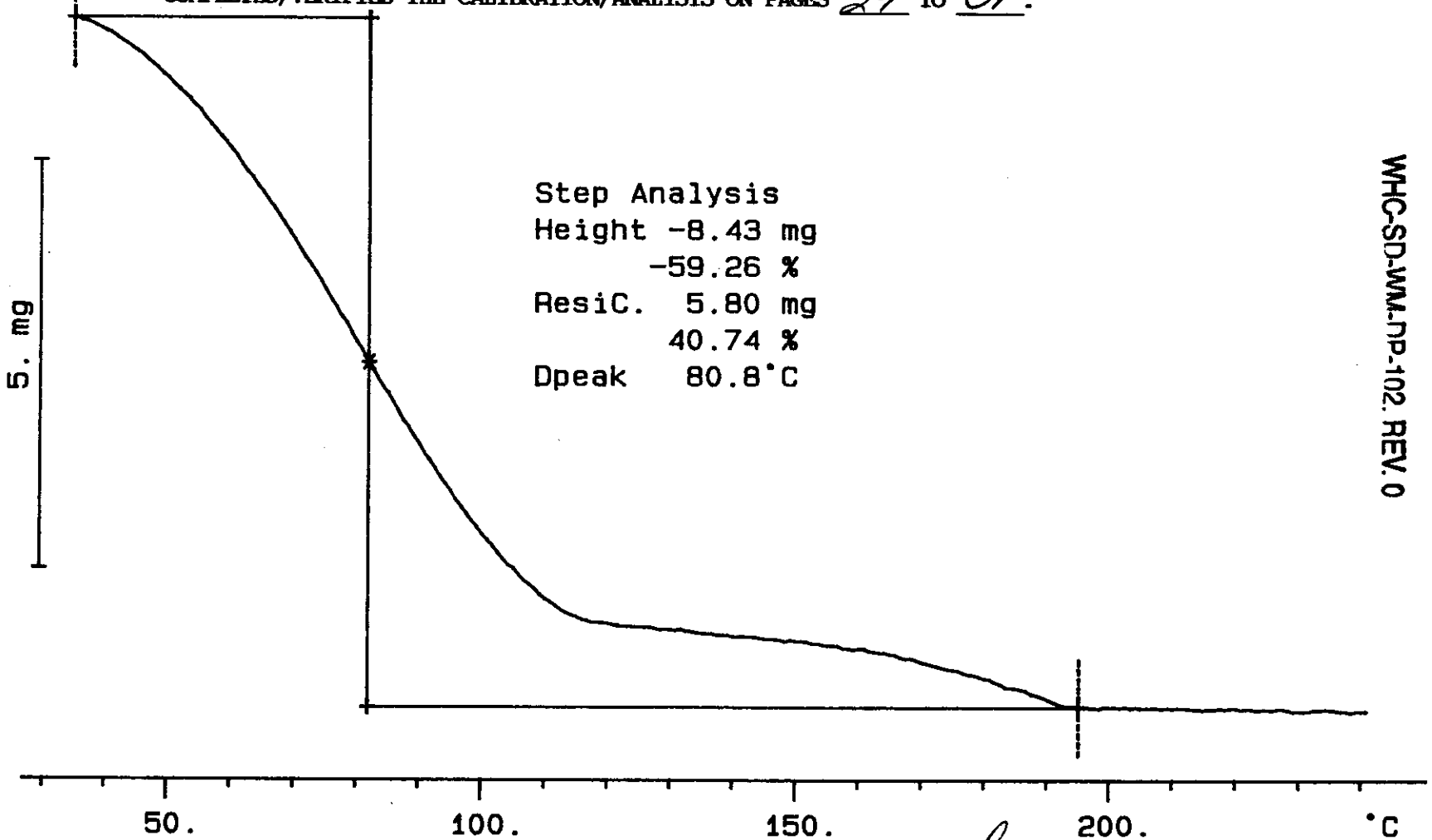
Units shown for QC (SPK & STD) may not reflect the actual units. DL = Detection Limit, S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

TGA STD 42N8-A

File: 00025.001 TG METTLER 01-Apr-95

14.233 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

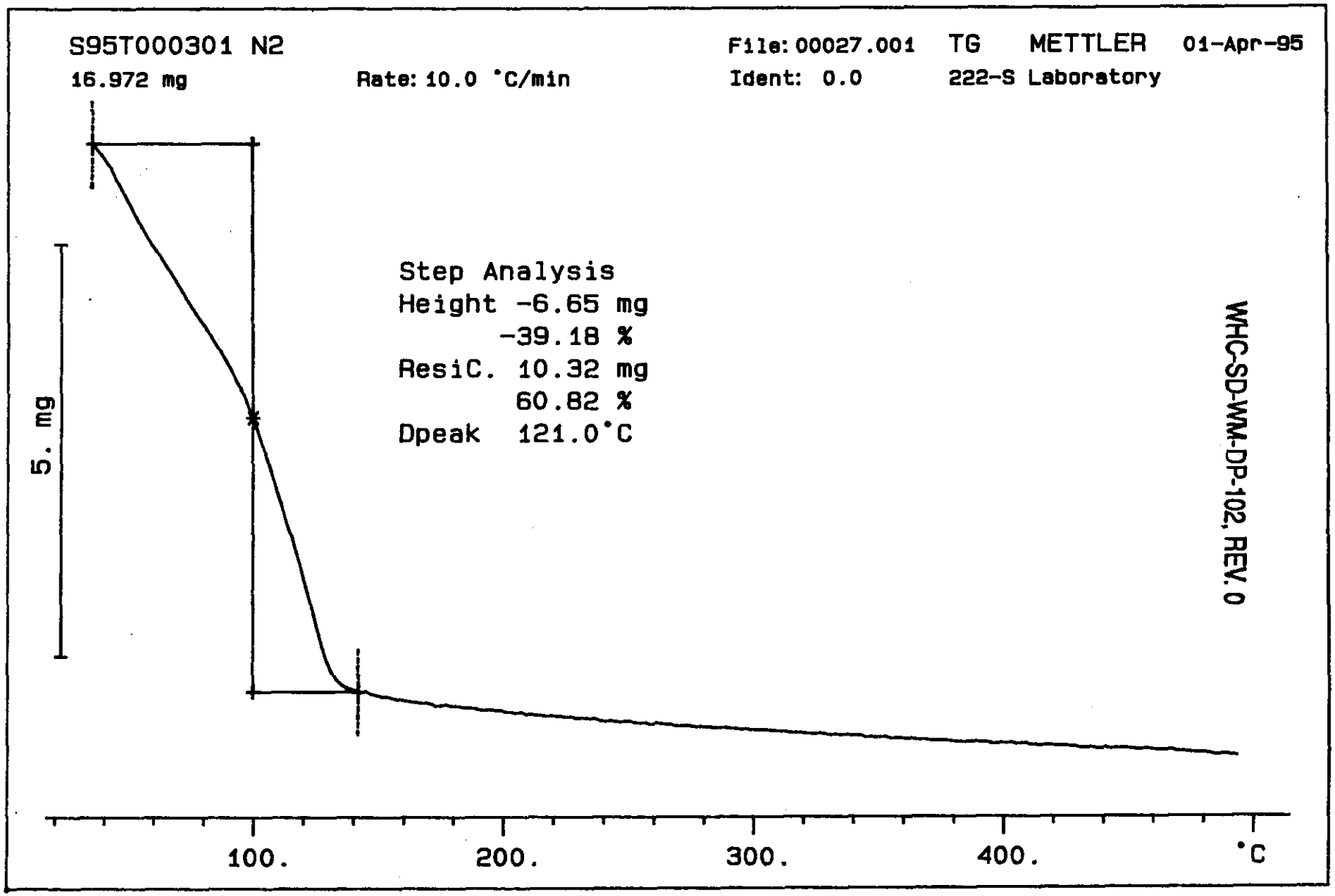
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 29 TO 31.



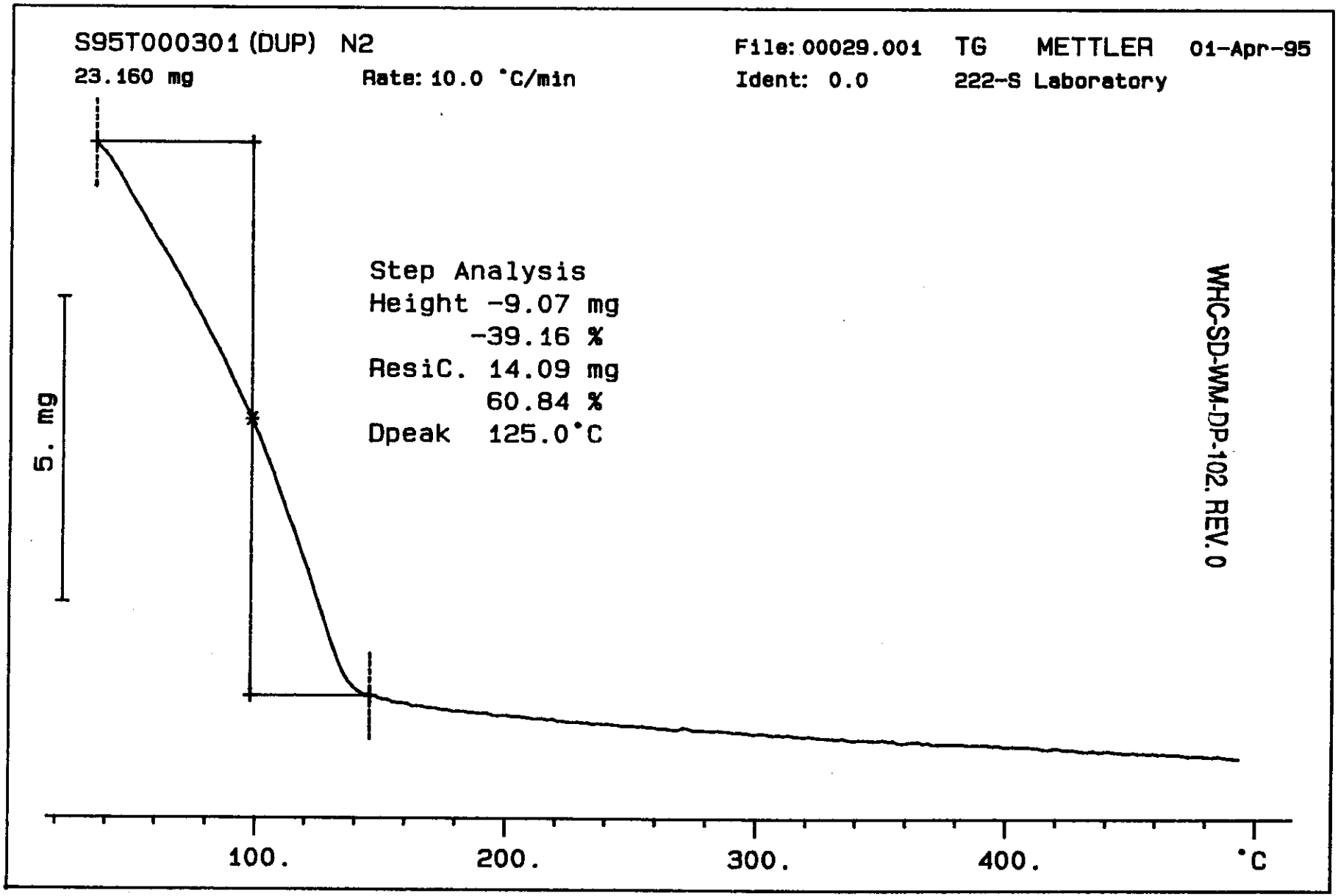
Susie M. Fulton 4-1-95

WHC-SD-WM-DP-102, REV. 0

9513338.2384



WHC-SD-WM-DP-102, REV. 0


S95T000301 (DUP) N2
23.160 mg
Rate: 10.0 °C/min
File: 00029.001
TG METTLER
01-Apr-95
Ident: 0.0
222-S Laboratory
Step Analysis
Height -9.07 mg
-39.16 %
ResiC. 14.09 mg
60.84 %
Dpeak 125.0°C
5. mg
100.
200.
300.
400.
°C

9513338.2387

DISTRIBUTION SHEET

To Distribuiton	From Characterization Plans and Reports	Page 1 of 2 Date: 04/13/95
Project Title/Work Order WHC-SD-WM-DP-102, Rev. 0, "45-Day Safety Screen Results for Tank 241-TY-106, Auger Samples, 95-AUG-010 and 95-AUG-011"		EDT NO.: EDT-619416 ECN NO.: N/A

Name	MSIN	Text With all Attach	EDT/ECN ONLY
Pacific Northwest Laboratory			
J. R. Gormsen	K7-28		X
S. J. Harris	K7-22	X	
K. L. Silvers	P7-27		X
U.S. Department of Energy, RL			
C. A. Babel	S7-54	X	
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D. C. Hetzer	S6-31		X
L. Jensen	T6-07	X	
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P. M. Morant	H4-25	X	
P. Sathyanarayana	R2-12	2	
B. C. Simpson	R2-12	X	
J. A. Voogd	R4-01		X
O. S. Wang	S7-15		X
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Name	MSIN	Text With all Attach	EDT/ECN ONLY	
Washington State Department of Ecology Single-Shell Tank Unit Manager S. E. McKinney P.O. Box 47600 Olympia, Washington 98504-7600			X	
Environmental Protection Agency Single-Shell Tank Unit Manager D. R. Einan 712 Swift Boulevard, Suite 5 Richland, Washington 99352			X	
U.S. Department of Energy Jim Poppiti 12800 Middlebrook Rd. Trevion II, EM-36 Germantown, MD 20874			X	
Los Alamos Technical Associates A. T. DiCenso 750 Swift Boulevard Suite # 4 Richland, WA 99352		X		