FILE COPY

CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:
2-16-11

OLIN CORPORATION
WILMINGTON
WIL-3

SC4941, SC4995, SC5041

KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
OLIN CORPORATION
WILMINGTON
WIL-3
SC4941, SC4995, SC5041

Sample Receipt

The following samples were received on August 22, 26, and 27, 2009 and were logged in under Katahdin Analytical Services work order number SC4941, SC4995 and SC5041 for a hardcopy due date of September 16, 2009.

KATAHDIN Sample No.	OLIN CORPORATION Sample Identification
SC4941-1	OC-SB-426.50/7.0-D
SC4941-2	OC-SB-456-5.0/7.0-X
SC4941-3	OC-SB-445-010/1.0-X
SC4941-4	OC-SB-445-8.0/10-X
SC4941-5	OC-EBK-003
SC4995-1	OC-SB-466-0.0/1.0-X
SC4995-2	OC-SB-466-5.0/7.0-D
SC4995-3	OC-SB-466-5.0/7.0-X
SC4995-4	OC-SB-448-0.0/1.0-X
SC4995-5	OC-SB-448-8.0/10-XX
SC4995-6	OC-SB-430-0.0/1.0-X
SC4995-7	OC-SB-SB-430-8.0/10-D
SC4995-8	OC-SB-430-8.0/10-XX
SC4995-9	OC-SB-422-0.0/1.0-X
SC4995-10	OC-SB-422-6.0/8.0-X
SC4995-11	OC-SB-EBK-004
SC5041-1	OC-SB-402-0.0/1.0-X
SC5041-2	OC-SB-402-7.5/9.5-X
SC5041-3	OC-SB-407-0.0/1.0-X
SC5041-4	OC-SB-407-8.0/10-XX

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.
Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WIL-3 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846 , 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis. Samples SC4941-2, SC4995-3 and SC4995-8 were used for the matrix spike (MS) and matrix spike duplicate (MSD), as per client request. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with an "M" (software-generated) on the pertinent quantitation reports.

8033M DMF Analysis

The sample with the client ID OC-SB-426-5.0/7.0-X (laboratory ID SC4941-2) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

The sample with the client ID OC-SB-446-5.0/7.0-X (laboratory ID SC4995-3) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

The sample with the client ID OC-SB-430-8.0/10-XX (laboratory ID SC4995-8) exceeds the 19-character limit of the Katahdin Analytical Services' organics forms processing system when appended with the MSD designation. Therefore, the first three characters ("OC-") in the client ID for this sample were omitted on all forms for the sample, MS, and MSD analyses.

The initial analysis of sample SC4995-11 did not chromatograph due to an instrument error. Due to analyst error, the unacceptable chromatographic analysis was not realized until the hold time of the sample had expired. The sample was reanalyzed eight days out of hold time.

Samples SC4941-4RA, SC4995-1RA, 2RA, 3RA, 7RA, 8RA, 9RA, 10RA, SC5041-1RA, 2RA, 3RA and 4RA were manually integrated for the surrogate diethylformamide (DEF). The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The LCSD WG68695-3 had a high recovery for the surrogate diethylformamide, which was outside of the laboratory established acceptance limits. The dimethylformamide (DMF) spike recoveries were acceptable in both the LCS and LCSD. The %RPD for DMF in the LCS/LCSD was outside of the laboratory acceptance limit.

The LCS and LCSD WG68045-2 and 3 and the MS WG68045-8 and the MSD's WG68045-5 and 9RA had high recoveries for the spiked analyte DMF, which were outside of the nominal laboratory acceptance limits. The MSD WG68045-9RA also had a high recovery for the surrogate DEF. The LCS, LCSD, MS and MSD's in this extraction batch were spiked at a concentration that correlates to only slightly above the PQL. QC samples are normally spiked at concentrations that are ten times the PQL. The low spike concentration may have contributed to the high recoveries.

The initial calibration analyzed on 8/31/09 failed the calibration criteria for the surrogate DEF. The surrogate was calibrated using a linear model but failed due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. Since the associated samples had acceptable surrogate recoveries and the target analyte DMF was acceptable, the samples were not reanalyzed.

The closing calibration verification (CV) (file BCH2157) had high responses for DMF and the surrogate DEF, which resulted in %D's that were outside of the laboratory acceptance limits of 25%. Since a high response would indicate a high bias and DMF was not detected above the PQL in the associated samples, the samples were not reanalyzed. The surrogate recoveries for the associated samples may be biased high and the associated LCS/LCSD may be biased high for DMF.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Wet Chemistry Analysis

The samples of SDG WIL-3 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times, and all quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond 09.23.09

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin Analytical Services, Inc. — Sample Receipt Condition Report

Client: Mactec	KAS PM: AJC	Sampled By:
Project:	KIMS Entry By: DD	Delivered By: Client
KAS Work Order#: SC4929, SC4934, SC4941	KIMS Review By: AJC	Received By: KM
SDG #:	Cooler: 1 of 1	Date/Time Rec.: 8-22-09 0830

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2-5
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?		✓			
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	Mac Tec	KAS PM:	AJC	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	Fed Ex
KAS Work Order#:	SC4995 + SC5016	KIMS Review By:	AL	Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	8/26/09 1000

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 3.1
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea	✓				
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?		✓			
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

See sample ID changes requested by Tige Cunningham 9/1/09

Katahdin Analytical Services, Inc. **Sample Receipt Condition Report**

Client:	MacTec / Olin	KAS PM:	AJC	Sampled By:	Client
Project:		KIMS Entry By:	DD	Delivered By:	KAS
KAS Work Order#:	SC5041 / SC5042 / SC5047	KIMS Review By:	[illegible]	Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	8/27/09 0935

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Andrea Colby

From: Cunningham, Tige [TLCunningham@mactec.com]
Sent: Tuesday, September 01, 2009 11:54 AM
To: Chatterton, Kelly; acolby@katahdinlab.com
Cc: Ricardi, Christian
Subject: RE: Olin Wilm: Changes to Sample Times and Sample ID's

Andrea,

I went through the last 2 weeks of Log-in Summaries and would like the following changes made:

Change sample collection time on OC-SB-432-5.0/7.0-XXX (SC4929-2) from 14:41 to 14:40.
Change Field Sample ID from OC-SB-422-6.8/8.0-XXX to OC-SB-422-6.0/8.0-XXX (SC4995-10)
Change Field Sample ID from OC-SB-443-6.8/8.0-XXX to OC-SB-443-6.0/8.0-XXX (SC4929-4)

Please confirm changes.

Thanks
Tige

Olin Wilmington OU1 Soil Sampling Categories

There will be three categories of samples submitted to the laboratories during the soil sampling program based primarily on the depth of soil locations. These categories will be indentified in notes provided with the chain of custody submitted with samples. The following categories are included:

Category 1

Soil boring samples 0'-1': request that all samples are analyzed and reported in the normal project turnaround time (TAT).

Category 2

Soil boring samples from the 1'-10' interval: All samples are analyzed. Rush TAT is requested on a subset of analyses as indicated below:

VOCs: rush 7-day TAT
SVOCs: NDMA, and phthalic anhydride: normal 30-day TAT
DMF: normal 21-day TAT
Hydrazine: rush 7 day TAT
Metals: normal 30-day TAT (except mercury)
Mercury: 10 day TAT
Hexavalent Chromium: 10 day TAT
Formaldehyde/acetaldehyde: normal TAT
Anions: normal TAT
Ammonia: normal TAT

Category 3

Soil boring samples from >10 ft: Sample are held with analysis pending. For a subset of analyses the samples will be extracted and held by the lab pending instructions from MACTEC-Olin.

VOCs: hold pending results of Category 2
SVOCs: extract and hold pending results of Category 2
NDMA: extract and hold pending results of Category 2
DMF: extract and hold pending results of Category 2
Hydrazine: hold pending results of Category 2
Metals: hold pending results of Category 2
Mercury: hold pending results of Category 2
Hexavalent Chromium: hold pending results of Category 2
Phthalic anhydride: extract and hold pending results of Category 2
Formaldehyde/acetaldehyde: run normal TAT
Anions: run normal TAT
Ammonia: run normal TAT

For rush TAT samples the laboratory will provide preliminary results with a narrative and sample results summary report. The lab will also provide data on a preliminary data EDD. Final result and supporting data packages will be provided in the normal TAT for the project.

Dropped off @ Lab on 8/22/09
~~Shipped Friday 8/21/09~~ TC

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	AV	<--Preservative Type (4) / <--Bottle Type (5)
OC-SB-432-0.0/1.0-XXX	8/20/2009 2:35:00 PM	T	FS	SO	G	1			1						Category 1
OC-SB-432-14/16-XXX	8/20/2009 3:15:00 PM	T	FS	SO	G	1			1						Category 3 (see attached sheet)
OC-SB-432-5.0/7.0-XXX	8/20/2009 2:41:00 PM	T	FS	SO	G	1			1						Category 2 (see attached sheet)
OC-SB-443-0.0/1.0-XXX	8/20/2009 4:35:00 PM	T	FS	SO	G	1			1						Category 1 (see attached sheet)
OC-SB-443-18/20-XXX	8/20/2009 5:20:00 PM	T	FS	SO	G	1			1						Category 3
OC-SB-443-6.8/8.0-XXX	8/20/2009 4:40:00 PM	T	FS	SO	G	1			1						Category 2

Special Instructions For Lab

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	AV	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-437-0.0/1.0-XXX	8/21/2009 12:30:00	T	FS	SO	G	1			1						Category 1
OC-SB-437-21/23-XXX	8/21/2009 1:10:00 PM	T	FS	SO	G	1			1						Category 3
OC-SB-437-5.0/7.0-XXX	8/21/2009 12:40:00	T	FS	SO	G	1			1						Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Katahdin - Soil

Client: Olin Corporation
Address: 3855 North Ocoee St. Suite 200
Cleveland, TN 37312
Phone: 423-336-4511 Fax: 423-336-1466 Email SGMorrow@olin.com Email Rpt:____

Client Project #: 6107090016
Work Site ID: Wilmington, MA
Reports Sent To: Steve Morrow

INVOICE INFO — Shaded Areas for office use only
Company Name: Olin Corp
Company Contact: ERG Accounts Payable
Address: Same as Client
Phone: Email

Requested Turnaround Time (SPECIFY)
Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____
Report Requirements Level IV Package ____ Level II Package _____
EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____
Lab SDG #_____ PO #_____

MACTEC

<--Preservative Type (4)
<--Bottle Type (5)

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	
OC-SB-419-0.0/1.0-XXX	8/19/2009 3:55:00 PM	T	FS	SO	G	1			1						Category 1 (see attached sheet)
OC-SB-419-17/19-XXX	8/19/2009 4:40:00 PM	T	FS	SO	G	1			1						Category 3 (see attached sheet)
OC-SB-419-3.0/5.0-XXX	8/19/2009 4:05:00 PM	T	FS	SO	G	1			1						Category 2 (see attached sheet)
OC-SB-426-0.0/1.0-XXX	8/19/2009 2:15:00 PM	T	FS	SO	G	1			1						Category 1
OC-SB-426-13/15-XXX	8/19/2009 2:35:00 PM	T	FS	SO	G	1			1						Category 3
OC-SB-426-5.0/7.0-DUP	8/19/2009 2:25:00 PM	T	FD	SO	G	1			1						Category 2
OC-SB-426-5.0/7.0-MSD	8/19/2009 2:25:00 PM	T	MS	SO	G	1			1						Category 2
OC-SB-426-5.0/7.0-XMS	8/19/2009 2:25:00 PM	T	MS	SO	G	1			1						Category 2
OC-SB-426-5.0/7.0-XXX	8/19/2009 2:25:00 PM	T	FS	SO	G	1			1						Category 2

Special Instructions For Lab

Katahdin Soil

Client:	Olin Corporation	Client Project #:	6107090016
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Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	<--Preservative Type (4) / <--Bottle Type (5)
OC-SB-445-0.0/1.0-XXX	8/21/2009 9:00:00 AM	T	FS	SO	G	1			1						Category 1
OC-SB-445-25/27-XXX	8/21/2009 10:15:00	T	FS	SO	G	1			1						Category 3
OC-SB-445-8.0/10-XXX	8/21/2009 9:10:00 AM	T	FS	SO	G	1			1						Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

000004

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] ***Date:*** 8/22/09 ***Time:*** 0827 ***Received:*** [signature] ***Date:*** 8/22/09 ***Time:***

Relinquished: _____ ***Date:*** __/__/__ ***Time:*** ____ ***Received:*** _____ ***Date:*** __/__/__ ***Time:***

Print Draft | Print Final and Close

Katahdin - Water

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

INVOICE INFO — Shaded Areas for office use only

Company Name: Olin Corp
Company Contact: ERG Accounts Payable
Address: Same as Client
Phone: Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____
Report Requirements Level IV Package ____ Level II Package _____
EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____
Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	<--Preservative Type (4) <--Bottle Type (5)
OC-EBK-003	8/21/2009 7:15:00 AM	T	EB	BW	G	2				2					Category 1 (see attached paper)

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Relinquished: [signature] Date: 8/21/09 (TC) Time: ~~0900~~ Received: [signature] Date: 8/22/09 (TC) Time: 0827

Relinquished: _____ Date: ___/___/___ Time: _____ Received: _____ Date: ___/___/___ Time: _____

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Print Draft | Print Final and Close

SC4995 & SC5010

Katahdin - Soil

(Tc)

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200 Cleveland, TN 37312	Work Site ID:	Wilmington, MA
		Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

INVOICE INFO

Shaded Areas for office use only

Company Name: Olin Corp

Company Contact: ERG Accounts Payable

Address: Same as Client

Phone: Email

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

<--Preservative Type (4)

<--Bottle Type (5)

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199) G	Cr+6 (7199) P	DMF (Mod 8033 - GC/NPD) G	DMF (Mod 8033 - GC/NPD) V	Opex / Kempore (8000B - HPLC) V	Perchlorate (6850) V	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS) AG	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS) Zn AV	Comments (Special Instructions)
OC-SB-446-0.0/1.0-XXX	8/25/2009 8:05:00 AM	T	FS	SO	G	1			1						Category 1 (see attached sheet)
OC-SB-446-15/17-XXX	8/25/2009 9:00:00 AM	T	FS	SO	G	1			1						Category 3 (see attached sheet)
OC-SB-446-5.0/7.0-DUP	8/25/2009 8:20:00 AM	T	FD	SO	G	1			1						Category 2 (see attached sheet)
OC-SB-446-5.0/7.0-MSD	8/25/2009 8:20:00 AM	T	MS	SO	G	1			1						Category 2
OC-SB-446-5.0/7.0-XMS	8/25/2009 8:20:00 AM	T	MS	SO	G	1			1						Category 2
OC-SB-446-5.0/7.0-XXX	8/25/2009 8:20:00 AM	T	FS	SO	G	1			1						Category 2
OC-SB-448-0.0/1.0-XXX	8/25/2009 10:05:00	T	FS	SO	G	1			1						Category 1
OC-SB-448-17/19-XXX	8/25/2009 10:45:00	T	FS	SO	G	1			1						Category 3
OC-SB-448-8.0/10-XXX	8/25/2009 10:30:00	T	FS	SO	G	1			1						Category 2

Special Instructions For Lab

Relinquished: [signature] Date: 8/25/09 Time: 1530 Received [signature] Date: 8/26/09 Time: [illegible]

Katahdin - Soil

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] **Date:** 8/25/09 **Time:** 1530 **Received:** [signature] **Date:** 8/26/09 **Time:** 1000

Relinquished: _____ **Date:** __/__/__ **Time:** _____ **Received:** _____ **Date:** __/__/__ **Time:** _____

Print Draft | Print Final and Close

000018

Katahdin - water

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO — Shaded Areas for office use only

Company Name: Olin Corp

Company Contact: ERG Accounts Payable

Address: Same as Client

Phone: Email

Requested Turnaround Time (SPECIFY)

Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							G	P	G	V	V	V	AG	Zn AV	<--Preservative Type (4) <--Bottle Type (5)
OC-EBK-004		T	EB	BW	G	2				X					Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N | MADEP Requirement Samples Iced? Y / N

Temp @ receipt: _____Deg C

Preservation / pH checked? Y / N

By: _____ Date: _____

Relinquished: [signature] *Date:* 8/25/09 *Time:* 1530 *Received:* [signature] *Date:* 8/26/09 *Time:* 1000

Relinquished: _____ *Date:* __/__/__ *Time:* _____ *Received:* _____ *Date:* __/__/__ *Time:* _____

Print Draft | Print Final and Close

SAMPLE

Katahdin-Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

INVOICE INFO	Shaded Areas for office use only
Company Name: Olin Corp	
Company Contact: ERG Accounts Payable	
Address: Same as Client	
Phone: Email	

Requested Turnaround Time (SPECIFY)		Regulatory Programs: MADEP MCP____ Superfund _____		
Standard_____	Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____		
		EDD Requirements: MACTEC EQUIS EZ EDD _____	Job # _____	Quote # _____
			Lab SDG #_____	PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)												Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V												AG	AV			<--Bottle Type (5)
OC-SB-430-0.0/1.0-XXX	8/25/2009 2:50:00 PM	T	FS	SO	G	1			1																			Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] *Date:* 8/25/09 *Time:* 1725 *Received:* [signature] *Date:* 8/26/09 *Time:* (aw)

*Relinquished:*_____ *Date:* ___/___/___ *Time:*_____ *Received:*_____ *Date:* ___/___/___ *Time:*_

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-430-19/21-XXX	8/25/2009 3:35:00 PM	T	FS	SO	G	1			1																				Category 3
OC-SB-430-8.0/10-DUP	8/25/2009 3:00:00 PM	T	FD	SO	G	1			1																				Category 2 Field Dup
OC-SB-430-8.0/10-MSD	8/25/2009 3:00:00 PM	T	MSD	SO	G	1			1																				Category 2 MS/MSD in the same Jar
OC-SB-430-8.0/10-XMS	8/25/2009 3:00:00 PM	T	MS	SO	G	1			1																				Category 2 matrix spike
OC-SB-430-8.0/10-XXX	8/25/2009 3:00:00 PM	T	FS	SO	G	1			1																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
	Temp @ receipt: _____ Deg C Preservation / pH checked? Y / N By: _____ Date: _____

Relinquished: [signature] **Date:** 8/25/09 **Time:** 1725 **Received:** [signature] **Date:** 8/26/09 **Time:** 1000

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _____

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax:	423-336-1466
Email	SGMorrow@olin.com	Email Rpt:	

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email

Requested Turnaround Time (SPECIFY): Standard_____ Rush_____ (Lab Approval Required)

Regulatory Programs: MADEP MCP____ Superfund _____

Report Requirements Level IV Package ____ Level II Package _____

EDD Requirements: MACTEC EQUIS EZ EDD _____

Job # _____ Quote # _____

Lab SDG #_____ PO #_____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)												Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							G	P	G	V	V	V												AG	AV			<--Preservative Type (4) <--Bottle Type (5)
OC-SB-422-0.0/1.0-XXX	8/25/2009 4:35:00 PM	T	FS	SO	G	1			1																			Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C Preservation / pH checked? Y / N By: _____ Date: _____	

Relinquished: [signature] *Date:* 8/25/09 *Time:* 1812 *Received:* [signature] *Date:* 8/26/09 *Time:* 1000

Relinquished: _____ *Date:* ___/___/___ *Time:* _____ *Received:* _____ *Date:* ___/___/___ *Time:* _____

000003

Katahdin-Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-422-13/15-XXX	8/25/2009 5:10:00 PM	T	FS	SO	G	1			1																				Category 3
OC-SB-422-6.8/8.0-XXX	8/25/2009 4:45:00 PM	T	FS	SO	G	1			1																				Category 2

Special Instructions For Lab

Notes:

1) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement
	Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] **Date:** 8/25/09 **Time:** 1817 **Received:** [signature] **Date:** 8/26/09 **Time:** _

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _

000023

SC5041 / SC5042 / SC5047 Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

INVOICE INFO	Shaded Areas for office use only
Company Name:	Olin Corp
Company Contact:	ERG Accounts Payable
Address:	Same as Client
Phone:	Email
Job # _____	Quote # _____
Lab SDG #_____	PO #_____

Requested Turnaround Time (SPECIFY)		Regulatory Programs: MADEP MCP____ Superfund _____
Standard_____	Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____
		EDD Requirements: MACTEC EQUIS EZ EDD _____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Comments (Special Instructions)
							- G	- P	- G	- V	- V	- V	- AG	Zn - AV	<--Preservative Type (4) <--Bottle Type (5)
OC-SB-402-0.0/1.0-XXX	8/26/2009 11:45:00	T	FS	SO	G	1			X						Category 1

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] *Date:* 8/27/09 *Time:* 0930 *Received:* Amy Adams *Date:* 8/27/09 *Time:* 930

*Relinquished:*_____ *Date:* ___/___/____ *Time:*_____ *Received:*_____ *Date:* ___/___/____ *Time:*_

000024

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V													AG	AV			<--Bottle Type (5)
OC-SB-402-7.5/9.5-XXX	8/26/2009 12:00:00	T	FS	SO	G	1			X																				Category 2
OC-SB-407-0.0/1.0-XXX	8/26/2009 10:10:00	T	FS	SO	G	1			X																				Category 1
OC-SB-407-26/28-XXX	8/26/2009 11:25:00	T	FS	SO	G	1			X																				Category 3
OC-SB-407-8.0/10-XXX	8/26/2009 10:20:00	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
	Temp @ receipt: _____ Deg C Preservation / pH checked? Y / N By: _____ Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** amyadams **Date:** 8/27/09 **Time:** 930

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _____

CC00025

Katahdin - Soil

Client:	Olin Corporation	Client Project #:	6107090016
Address:	3855 North Ocoee St. Suite 200	Work Site ID:	Wilmington, MA
	Cleveland, TN 37312	Reports Sent To:	Steve Morrow
Phone:	423-336-4511	Fax: 423-336-1466	Email SGMorrow@olin.com Email Rpt:____

INVOICE INFO	Shaded Areas for office use only
Company Name: Olin Corp	
Company Contact: ERG Accounts Payable	
Address: Same as Client	
Phone:	Email
Job # _____	Quote # _____
Lab SDG #_____	PO #_____

Requested Turnaround Time (SPECIFY)		Regulatory Programs: MADEP MCP____ Superfund _____
Standard_____	Rush_____ (Lab Approval Required)	Report Requirements Level IV Package ____ Level II Package _____
		EDD Requirements: MACTEC EQUIS EZ EDD _____

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)												Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			<--Preservative Type (4) <--Bottle Type (5)
							- G	- P	- G	- V	- V	- V	-	-	-	-	-	-	-	-	-	-	-	- AG	Zn AV	-	-	
OC-SB-403-0.0/1.0-XXX	8/26/2009 1:25:00 PM	T	FS	SO	G	1			X																			Category 1

Comments (Special Instructions)

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial.

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** [signature] **Date:** 8/27/09 **Time:** 930

Relinquished:_____ **Date:** ___/___/____ **Time:**_____ **Received:**_____ **Date:** ___/___/____ **Time:**_

0000026

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)													Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							G	P	G	V	V	V													AG	Zn AV			<--Preservative Type (4) <--Bottle Type (5)
OC-SB-403-13/15-XXX	8/26/2009 1:40:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-403-6.0/8.0-XXX	8/26/2009 1:30:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-404-13/15-XXX	8/26/2009 3:40:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-404-5.0/7.0-XXX	8/26/2009 3:20:00 PM	T	FS	SO	G	1			X																				Category 2
OC-SB-409-0.0/1.0-XXX	8/26/2009 4:50:00 PM	T	FS	SO	G	1			X																				Category 1
OC-SB-409-15/17-XXX	8/26/2009 5:15:00 PM	T	FS	SO	G	1			X																				Category 3
OC-SB-409-6.0/8.0-XXX	8/26/2009 5:05:00 PM	T	FS	SO	G	1			X																				Category 2

Special Instructions For Lab

Notes:

1) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____	Date: _____

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** Amy Adams **Date:** 8/27/09 **Time:** 930

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _____

000027

Katahdin - Soil

MACTEC

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	Cr+6 (3060A / 7199)	Cr+6 (7199)	DMF (Mod 8033 - GC/NPD)	DMF (Mod 8033 - GC/NPD)	Opex / Kempore (8000B - HPLC)	Perchlorate (6850)												Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)	Hydrazine, MMH, UDMH (Mod 8315 LC/MS/MS)			Comments (Special Instructions)
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Zn	-	-	<--Preservative Type (4)
							G	P	G	V	V	V												AG	AV			<--Bottle Type (5)
OC-SB-411-0.0/1.0-XXX	8/26/2009 10:20:00	T	FS	SO	G	1			X																			Category 1
OC-SB-411-4.7/6.7-XXX	8/26/2009 10:35:00	T	FS	SO	G	1			X																			Category 2

Special Instructions For Lab

Notes:

1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable

2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank

3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil

4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water

5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,

Cooler ? Y / N	MADEP Requirement Samples Iced? Y / N
Temp @ receipt: _____ Deg C	
Preservation / pH checked? Y / N	
By: _____ Date: _____	

Relinquished: [signature] **Date:** 8/27/09 **Time:** 0930 **Received:** Amy Adams **Date:** 8/27/09 **Time:** 930

Relinquished: _____ **Date:** ___/___/___ **Time:** _____ **Received:** _____ **Date:** ___/___/___ **Time:** _____

0000028

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Aug. 24, 2009
03:15 PM

Login Number: SC4941

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	2.5
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email EDD to kjchatterton@mactec.com. Data summary needs all forms.
SDG ID	:	WIL-3
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4941-1	OC-SB-426-5.0/7.0-D	19-AUG-09 14:25	22-AUG-09			10-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	02-SEP-09	100g Glass	1	
Solid	S	TS	18-SEP-09			

SC4941-2	OC-SB-426-5.0/7.0-X	19-AUG-09 14:25	22-AUG-09			10-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	02-SEP-09	100g Glass	3	**MS/MSD**
Solid	S	TS	18-SEP-09			

SC4941-3	OC-SB-445-0.0/1.0-X	21-AUG-09 09:00	22-AUG-09			10-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	04-SEP-09	100g Glass	1	
Solid	S	TS	20-SEP-09			

SC4941-4	OC-SB-445-8.0/10-X	21-AUG-09 09:10	22-AUG-09			10-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	04-SEP-09	100g Glass	1	
Solid	S	TS	20-SEP-09			

SC4941-5	OC-EBK-003	21-AUG-09 07:15	22-AUG-09			10-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8033M	04-SEP-09	40mL Vial+HCl	2	

Total Samples: *5* ***Total Analyses:*** *9*

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Sep. 01, 2009
01:51 PM

Login Number: SC4995

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	
DELIVERY SERVICES	:	Fedex
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email SDS to csricardi@mactec.com. Email EDD to kjchatterton@mactec.com. Data summary needs all forms.
SDG ID	:	WIL-3
SDG STATUS	:	Cont

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-1	OC-SB-446-0.0/1.0-X	25-AUG-09 08:05	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-2	OC-SB-446-5.0/7.0-D	25-AUG-09 08:20	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-3	OC-SB-446-5.0/7.0-X	25-AUG-09 08:20	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	3	**MS/MSD**
Solid	S	TS	24-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-4	OC-SB-448-0.0/1.0-X	25-AUG-01 00:05	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-01	100g Glass	1	
Solid	S	TS	24-SEP-01			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-5	OC-SB-448-8.0/10-XX	25-AUG-01 00:30	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-01	100g Glass	1	
Solid	S	TS	24-SEP-01			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-6	OC-SB-430-0.0/1.0-X	25-AUG-09 14:50	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-7	OC-SB-430-8.0/10-D	25-AUG-09 15:00	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

000030

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Sep. 01, 2009
01:51 PM

Login Number: SC4995

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC4995-8	OC-SB-430-8.0/10-XX	25-AUG-09 15:00	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	3	MS/MSD
Solid	S	TS	24-SEP-09			

SC4995-9	OC-SB-422-0.0/1.0-X	25-AUG-09 16:35	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

SC4995-10	OC-SB-422-6.0/8.0-X	25-AUG-09 16:45	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	08-SEP-09	100g Glass	1	
Solid	S	TS	24-SEP-09			

SC4995-11	OC-EBK-004	25-AUG-09 00:00	26-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8033M	08-SEP-09	40mL Vial+HCl	2	

Total Samples: ***11*** ***Total Analyses:*** ***21***

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Aug. 27, 2009
10:20 AM

Login Number: SC5041

Account: OLINCO001 NoWeb
Olin Corporation

Project:

Primary Report Address:
Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS

Portland,ME 04112-7050
csricardi@mactec.com

Primary Invoice Address:
ERG
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland,TN 37312

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	ERRE9844
COOLER TEMPERATURE	:	
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS075-CSV
PM	:	AJC
PROJECT NAME	:	Wilmington
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send rpt & EDD on CD, no hc. Email SDS to csricardi@mactec.com. Email EDD to kjchatterton@mactec.com. Data summary needs all forms.
SDG ID	:	WIL-3
SDG STATUS	:	End

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SC5041-1	OC-SB-402-0.0/1.0-X	26-AUG-09 11:45	27-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	09-SEP-09	100g Glass	1	
Solid	S	TS	25-SEP-09			

SC5041-2	OC-SB-402-7.5/9.5-X	26-AUG-09 12:00	27-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	09-SEP-09	100g Glass	1	
Solid	S	TS	25-SEP-09			

SC5041-3	OC-SB-407-0.0/1.0-X	26-AUG-09 10:10	27-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	09-SEP-09	100g Glass	1	
Solid	S	TS	25-SEP-09			

SC5041-4	OC-SB-407-8.0/10-XX	26-AUG-09 10:20	27-AUG-09			16-SEP-09	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8033M	09-SEP-09	100g Glass	1	
Solid	S	TS	25-SEP-09			

Total Samples: *4* ***Total Analyses:*** *8*

000032

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 18:45
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 85.3

Lab ID: SC4941-1
Client ID: OC-SB-426-5.0/7.0-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 19:13
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 85.3

Lab ID: SC4941-2
Client ID: SB-426-5.0/7.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.73	1.0	0.80	0.73	0.73
	diethylformamide		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 19:42
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 98.6

Lab ID: SC4941-3
Client ID: OC-SB-445-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.69	1.0	0.80	0.69	0.69
	diethylformamide		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:09
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 84.6

Lab ID: SC4941-4RA
Client ID: OC-SB-445-8.0/10-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.81	1.0	0.80	0.81	0.81
	diethylformamide		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date:
Analysis Date: 31-AUG-2009 19:36
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: SC4941-5
Client ID: OC-EBK-003
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		139%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:23
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 93.7

Lab ID: SC4995-1RA
Client ID: OC-SB-446-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:37
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 81.9

Lab ID: SC4995-2RA
Client ID: OC-SB-446-5.0/7.0-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		117%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:51
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 82.4

Lab ID: SC4995-3RA
Client ID: SB-446-5.0/7.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		118%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/01
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:05
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 95.0

Lab ID: SC4995-4RA
Client ID: OC-SB-448-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.67	1.0	0.80	0.67	0.67
	diethylformamide		110%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/01
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:19
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 84.2

Lab ID: SC4995-5RA
Client ID: OC-SB-448-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.73	1.0	0.80	0.73	0.73
	diethylformamide		113%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:33
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 96.9

Lab ID: SC4995-6RA
Client ID: OC-SB-430-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.68	1.0	0.80	0.68	0.68
	diethylformamide		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:47
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 94.3

Lab ID: SC4995-7RA
Client ID: OC-SB-430-8.0/10-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:01
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 91.1

Lab ID: SC4995-8RA
Client ID: SB-430-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.63	1.0	0.80	0.63	0.63
	diethylformamide		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:15
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 96.4

Lab ID: SC4995-9RA
Client ID: OC-SB-422-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:57
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 86.3

Lab ID: SC4995-10RA
Client ID: OC-SB-422-6.0/8.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.79	1.0	0.80	0.79	0.79
	diethylformamide		119%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date:
Analysis Date: 16-SEP-2009 10:26
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: SC4995-11
Client ID: OC-EBK-004
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		124%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:11
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 95.1

Lab ID: SC5041-1
Client ID: OC-SB-402-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.72	1.0	0.80	0.72	0.72
	diethylformamide		120%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:26
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 92.1

Lab ID: SC5041-2
Client ID: OC-SB-402-7.5/9.5-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:40
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 90.2

Lab ID: SC5041-3
Client ID: OC-SB-407-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		108%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:54
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 82.2

Lab ID: SC5041-4
Client ID: OC-SB-407-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		114%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-AUG-2009 15:16
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: WG67967-1
Client ID: WG67967-Blank
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		151%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 17:20
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 100

Lab ID: WG68045-1
Client ID: WG68045-Blank
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		116%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 16-SEP-2009 09:15
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: WG68695-1
Client ID: WG68695-Blank
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		121%				

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68045-BLANK	WG68045-1	116				0
02	WG68045-LCS	WG68045-2	98				0
03	WG68045-LCSD	WG68045-3	97				0
04	OC-SB-426-5.0/7.0-D	SC4941-1	90				0
05	SB-426-5.0/7.0-X	SC4941-2	87				0
06	OC-SB-445-0.0/1.0-X	SC4941-3	83				0
07	OC-SB-445-8.0/10-X	SC4941-4RA	111				0
08	OC-SB-446-0.0/1.0-X	SC4995-1RA	114				0
09	OC-SB-446-5.0/7.0-D	SC4995-2RA	117				0
10	SB-446-5.0/7.0-X	SC4995-3RA	118				0
11	OC-SB-448-0.0/1.0-X	SC4995-4RA	110				0
12	OC-SB-448-8.0/10-XX	SC4995-5RA	113				0
13	OC-SB-430-0.0/1.0-X	SC4995-6RA	114				0
14	OC-SB-430-8.0/10-D	SC4995-7RA	122				0
15	SB-430-8.0/10-XX	SC4995-8RA	107				0
16	OC-SB-422-0.0/1.0-X	SC4995-9RA	119				0
17	OC-SB-422-6.0/8.0-X	SC4995-10RA	119				0
18	OC-SB-402-0.0/1.0-X	SC5041-1	120				0
19	OC-SB-402-7.5/9.5-X	SC5041-2	114				0
20	OC-SB-407-0.0/1.0-X	SC5041-3	108				0
21	OC-SB-407-8.0/10-XX	SC5041-4	114				0
22	SB-426-5.0/7.0-XMS	WG68045-4	108				0
23	SB-426-5.0/7.0-XMSD	WG68045-5	112				0
24	SB-446-5.0/7.0-XMS	WG68045-6	112				0
25	SB-446-5.0/7.0-XMSD	WG68045-7	117				0
26	SB-430-8.0/10-XXMS	WG68045-8	117				0
27	SB-430-8.0/10-XXMSD	WG68045-9RA	143*				1
28							

QC LIMITS
SMC1 = diethylformamide (61-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG67967-BLANK	WG67967-1	151				0
02	WG67967-LCS	WG67967-2	70				0
03	OC-EBK-003	SC4941-5	139				0
04	WG68695-BLANK	WG68695-1	121				0
05	WG68695-LCS	WG68695-2	152				0
06	WG68695-LCSD	WG68695-3	162*				1
07	OC-EBK-004	SC4995-11	124				0
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

SMC1 = diethylformamide QC LIMITS (56-154)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 08/31/09
Report Date: 09/16/2009
Matrix: WATER

Lab ID: WG67967-2
Client ID: WG67967-LCS
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
dimethylformamide	0.20	NA	0.21	106	70-130

FORM III DMF-1

BCH2145.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 08/31/09
Analysis Date: 09/02/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-2 & WG68045-3
Client ID: WG68045-LCS & WG68045-LCSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.0	1.0	NA	1.6	1.6	* 165	* 158	4	50	70-130

FORM III DMF-2

BCI2122.d & BCI2124.d

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/16/09
Report Date: 09/16/2009
Matrix: WATER

Lab ID: WG68695-2 & WG68695-3
Client ID: WG68695-LCS & WG68695-LCSD
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	0.10	0.10	NA	0.12	0.08	123	84	*	37	30	70-130

FORM III DMF-1

BCI4154.d & BCI4156.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 09/15/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-4 & WG68045-5
Client ID: SB-426-5.0/7.0-XMS & SB-426-5.0/7.0-XMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.2	1.1	0.00	1.5	1.5	129	* 133	4	50	70-130

FORM III DMF-2

BCI4113.d & BCI4115.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 09/15/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-6 & WG68045-7
Client ID: SB-446-5.0/7.0-XMS & SB-446-5.0/7.0-XMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.0	1.1	0.00	1.2	1.4	118	123	9	50	70-130

FORM III DMF-2

BCI4117.d & BCI4119.d

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 09/16/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-8 & WG68045-9RA
Client ID: SB-430-8.0/10-XXMS & SB-430-8.0/10-XXMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.1	1.0	0.00	1.5	1.5	* 138	* 144	0.7	50	70-130

FORM III DMF-2

BCI4121.d & BCI4159.d

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG67967-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCH2139 Lab Sample ID: WG67967-1

Date Analyzed: 08/31/09 Time Analyzed: 1516

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG67967-LCS	WG67967-2	BCH2145	08/31/09	1742
02	OC-EBK-003	SC4941-5	BCH2153	08/31/09	1936
03					
04					
05					
06					
07					
08					
09					
10					
11					
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COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68045-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCI2120 Lab Sample ID: WG68045-1

Date Analyzed: 09/02/09 Time Analyzed: 1720

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68045-LCS	WG68045-2	BCI2122	09/02/09	1748
02	WG68045-LCSD	WG68045-3	BCI2124	09/02/09	1816
03	OC-SB-426-5.0/7.0-D	SC4941-1	BCI2126	09/02/09	1845
04	SB-426-5.0/7.0-X	SC4941-2	BCI2128	09/02/09	1913
05	OC-SB-445-0.0/1.0-X	SC4941-3	BCI2130	09/02/09	1942
06	OC-SB-445-8.0/10-X	SC4941-4RA	BCI4096	09/15/09	1509
07	OC-SB-446-0.0/1.0-X	SC4995-1RA	BCI4097	09/15/09	1523
08	OC-SB-446-5.0/7.0-D	SC4995-2RA	BCI4098	09/15/09	1537
09	SB-446-5.0/7.0-X	SC4995-3RA	BCI4099	09/15/09	1551
10	OC-SB-448-0.0/1.0-X	SC4995-4RA	BCI4100	09/15/09	1605
11	OC-SB-448-8.0/10-XX	SC4995-5RA	BCI4101	09/15/09	1619
12	OC-SB-430-0.0/1.0-X	SC4995-6RA	BCI4102	09/15/09	1633
13	OC-SB-430-8.0/10-D	SC4995-7RA	BCI4103	09/15/09	1647
14	SB-430-8.0/10-XX	SC4995-8RA	BCI4104	09/15/09	1701
15	OC-SB-422-0.0/1.0-X	SC4995-9RA	BCI4105	09/15/09	1715
16	OC-SB-422-6.0/8.0-X	SC4995-10RA	BCI4108	09/15/09	1757
17	OC-SB-402-0.0/1.0-X	SC5041-1	BCI4109	09/15/09	1811
18	OC-SB-402-7.5/9.5-X	SC5041-2	BCI4110	09/15/09	1826
19	OC-SB-407-0.0/1.0-X	SC5041-3	BCI4111	09/15/09	1840
20	OC-SB-407-8.0/10-XX	SC5041-4	BCI4112	09/15/09	1854
21	SB-426-5.0/7.0-XMS	WG68045-4	BCI4113	09/15/09	1908
22	SB-426-5.0/7.0-XMSD	WG68045-5	BCI4115	09/15/09	1937
23	SB-446-5.0/7.0-XMS	WG68045-6	BCI4117	09/15/09	2005
24	SB-446-5.0/7.0-XMSD	WG68045-7	BCI4119	09/15/09	2034
25	SB-430-8.0/10-XXMS	WG68045-8	BCI4121	09/15/09	2102
26	SB-430-8.0/10-XXMSD	WG68045-9RA	BCI4159	09/16/09	1041
27					
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68695-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCI4153 Lab Sample ID: WG68695-1

Date Analyzed: 09/16/09 Time Analyzed: 0915

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68695-LCS	WG68695-2	BCI4154	09/16/09	0929
02	WG68695-LCSD	WG68695-3	BCI4156	09/16/09	0957
03	OC-EBK-004	SC4995-11	BCI4158	09/16/09	1026
04					
05					
06					
07					
08					
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COMMENTS:

FORM IVDMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 08/31/09 08/31/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 1154 1403

LAB FILE ID: RF0.02: BCH2129 RF0.05: BCH2128 RF0.1: BCH2130
RF0.25: BCH2132 RF0.5: BCH2134 RF1: BCH2136

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
dimethylformamide	1554	4275	9371	27945	62614		LINR	1.416e-002	7.896e-006	0.99625	0.99000	
diethylformamide	27445	52126	126480	354020	682630		LINR	0.16400965	5.847e-006	0.98874	0.99000	<-

FORM VI DMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 09/01/09 09/01/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 1403 1610

LAB FILE ID: RF0.02: BCI2013 RF0.05: BCI2014 RF0.1: BCI2015
RF0.25: BCI2017 RF0.5: BCI2019 RF1: BCI2022

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	878	2510	5981	15898	37586	86362	LINR	2.877e-002	1.152e-005	0.99409	0.99000
diethylformamide	22545	49061	102590	286120	506660		LINR	0.10561196	7.876e-006	0.99600	0.99000

FORM VI DMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 09/15/09 09/15/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 0936 1143

LAB FILE ID: RF0.02: BCI4073 RF0.05: BCI4074 RF0.1: BCI4075
RF0.25: BCI4077 RF0.5: BCI4079 RF1: BCI4082

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	921	1500	3764	12201	24415	55088	LINR	2.106e-002	1.811e-005	0.99669	0.99000
diethylformamide	13241	25644	58420	154630	276360		LINR	9.989e-002	1.448e-005	0.99576	0.99000

FORM VI DMF

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 08/31/09 Time: 2024

Lab File ID: BCH2157 Init. Calib. Date(s): 08/31/09 08/31/09

Init. Calib. Times: 1154 1403

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
dimethylformamide	0.6431300	0.5000000	159320.00	0.01	28.63	25.00	LINR	<-
diethylformamide	5.1653000	4.0000000	213840.00	0.01	29.13	25.00	LINR	<-

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/02/09 Time: 1533

Lab File ID: BCI2115 Init. Calib. Date(s): 09/01/09 09/01/09

Init. Calib. Times: 1403 1610

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2513000	0.2500000	77284.000	0.01	0.52	25.00	LINR
diethylformamide	2.5291000	2.5000000	123080.00	0.01	1.16	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/03/09 Time: 0912

Lab File ID: BCI2145 Init. Calib. Date(s): 09/01/09 09/01/09

Init. Calib. Times: 1403 1610

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2298600	0.2500000	69836.000	0.01	-8.06	25.00	LINR
diethylformamide	2.3507000	2.5000000	114020.00	0.01	-5.97	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1435

Lab File ID: BCI4094 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2084400	0.2500000	41392.000	0.01	-16.62	25.00	LINR
diethylformamide	2.4826000	2.5000000	65813.000	0.01	-0.70	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1729

Lab File ID: BCI4106 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2218400	0.2500000	44352.000	0.01	-11.26	25.00	LINR
diethylformamide	2.4726000	2.5000000	65536.000	0.01	-1.10	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 2131

Lab File ID: BCI4123 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2403800	0.2500000	48448.000	0.01	-3.85	25.00	LINR
diethylformamide	2.4312000	2.5000000	64393.000	0.01	-2.75	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0847

Lab File ID: BCI4151 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2700800	0.2500000	55008.000	0.01	8.03	25.00	LINR
diethylformamide	2.8650000	2.5000000	76374.000	0.01	14.60	25.00	LINR

FORM VII PEST

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1109

Lab File ID: BCI4161 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.3005000	0.2500000	61728.000	0.01	20.20	25.00	LINR
diethylformamide	3.0672000	2.5000000	81960.000	0.01	22.69	25.00	LINR

FORM VII PEST

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 08/31/09 08/31/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		IC 0.05	08/31/09	1154	2.49	
02		ICAL 0.02	08/31/09	1210	2.49	
03		ICAL 0.1	08/31/09	1238	2.49	
04		ICAL 0.25	08/31/09	1306	2.49	
05		ICAL 0.5	08/31/09	1335	2.49	
06	WG67967-BLAN	WG67967-1	08/31/09	1516	2.49	
07	WG67967-LCS	WG67967-2	08/31/09	1742	2.48	
08	OC-EBK-003	SC4941-5	08/31/09	1936	2.49	
09		CV 0.5	08/31/09	2024	2.48	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/01/09 09/01/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/01/09	1403	2.49	
02		ICAL 0.05	09/01/09	1417	2.49	
03		ICAL 0.1	09/01/09	1431	2.49	
04		ICAL 0.25	09/01/09	1459	2.49	
05		ICAL 0.5	09/01/09	1527	2.48	
06		ICAL 1.0	09/01/09	1610		
07		CV 0.25	09/02/09	1533	2.48	
08	WG68045-BLAN	WG68045-1	09/02/09	1720	2.49	
09	WG68045-LCS	WG68045-2	09/02/09	1748	2.47	
10	WG68045-LCSD	WG68045-3	09/02/09	1816	2.47	
11	OC-SB-426-5.	SC4941-1	09/02/09	1845	2.49	
12	SB-426-5.0/7	SC4941-2	09/02/09	1913	2.49	
13	OC-SB-445-0.	SC4941-3	09/02/09	1942	2.49	
14		CV 0.25	09/03/09	0912	2.48	
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/15/09	0936	2.69	
02		ICAL 0.05	09/15/09	0950	2.69	
03		ICAL 0.1	09/15/09	1004	2.69	
04		ICAL 0.25	09/15/09	1032	2.68	
05		ICAL 0.5	09/15/09	1101	2.69	
06		ICAL 1.0	09/15/09	1143		
07		CV 0.25	09/15/09	1435	2.68	
08	OC-SB-445-8.	SC4941-4RA	09/15/09	1509	2.68	
09	OC-SB-446-0.	SC4995-1RA	09/15/09	1523	2.68	
10	OC-SB-446-5.	SC4995-2RA	09/15/09	1537	2.68	
11	SB-446-5.0/7	SC4995-3RA	09/15/09	1551	2.68	
12	OC-SB-448-0.	SC4995-4RA	09/15/09	1605	2.68	
13	OC-SB-448-8.	SC4995-5RA	09/15/09	1619	2.68	
14	OC-SB-430-0.	SC4995-6RA	09/15/09	1633	2.68	
15	OC-SB-430-8.	SC4995-7RA	09/15/09	1647	2.68	
16	SB-430-8.0/1	SC4995-8RA	09/15/09	1701	2.68	
17	OC-SB-422-0.	SC4995-9RA	09/15/09	1715	2.68	
18		CV 0.25	09/15/09	1729	2.68	
19	OC-SB-422-6.	SC4995-10RA	09/15/09	1757	2.68	
20	OC-SB-402-0.	SC5041-1	09/15/09	1811	2.68	

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	OC-SB-402-7.	SC5041-2	09/15/09	1826	2.68	
02	OC-SB-407-0.	SC5041-3	09/15/09	1840	2.68	
03	OC-SB-407-8.	SC5041-4	09/15/09	1854	2.68	
04	SB-426-5.0/7	WG68045-4	09/15/09	1908	2.68	
05	SB-426-5.0/7	WG68045-5	09/15/09	1937	2.68	
06	SB-446-5.0/7	WG68045-6	09/15/09	2005	2.68	
07	SB-446-5.0/7	WG68045-7	09/15/09	2034	2.68	
08	SB-430-8.0/1	WG68045-8	09/15/09	2102	2.68	
09		CV 0.25	09/15/09	2131	2.68	
10		CV 0.25	09/16/09	0847	2.68	
11	WG68695-BLAN	WG68695-1	09/16/09	0915	2.68	
12	WG68695-LCS	WG68695-2	09/16/09	0929	2.68	
13	WG68695-LCSD	WG68695-3	09/16/09	0957	2.68	
14	OC-EBK-004	SC4995-11	09/16/09	1026	2.68	
15	SB-430-8.0/1	WG68045-9RA	09/16/09	1041	2.68	
16		CV 0.25	09/16/09	1109	2.68	
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-426-5.0/7.0-D	SL	19-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-426-5.0/7.0-X	SL	19-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-445-0.0/1.0-X	SL	21-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	99. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-445-8.0/10-X	SL	21-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84 %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-5.0-7.0-D	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-5.0/7.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REW10014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-448-0.0/1.0-X	SL	25-AUG-01	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68207	02-SEP-09 08:30:00	ASTM D2216	01-SEP-09	JF	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-5
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-448-8.0/10-XX	SL	25-AUG-01	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	SM2540G	WG68207	02-SEP-09 08:30:00	ASTM D2216	01-SEP-09	JF	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-6
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	97. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-7
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-8.0/10-D	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-8
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-8.0/10-XX	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-9
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-422-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-10
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-422-6.0/8.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REW10014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-402-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-402-7.5/9.5-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-407-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-407-8.0/10-XX	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82 %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68529	ASTM D2216	11-SEP-09	10-SEP-09	U 1 %	1 %

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sales@katahdinlab.com

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68207	ASTM D2216	02-SEP-09	01-SEP-09	U 1 %	1 %
MBLANK	WG68620	ASTM D2216	14-SEP-09	11-SEP-09	U 1 %	1 %

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sales@katahdinlab.com

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68529-2	LCS	WG68529	11-SEP-09	10-SEP-09	%	90	90	100	80-120	
WG68529-4	LCSD	WG68529	11-SEP-09	10-SEP-09	%	90	91	102	80-120	2

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68207-2	LCS	WG68207	02-SEP-09	01-SEP-09	%	90	90.	100	80-120	
WG68620-2	LCS	WG68620	14-SEP-09	11-SEP-09	%	90	92.	102	80-120	
WG68207-3	LCSD	WG68207	02-SEP-09	01-SEP-09	%	90	90.	100	80-120	0

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Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68620-3	SC4995-8	WG68620	14-SEP-09	%	91.	91.	0	20

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Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68620-4	SC5041-4	WG68620	14-SEP-09	%	82.	82.	0	20

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DMF DATA

QC Summary Section

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG68045-BLANK	WG68045-1	116				0
02	WG68045-LCS	WG68045-2	98				0
03	WG68045-LCSD	WG68045-3	97				0
04	OC-SB-426-5.0/7.0-D	SC4941-1	90				0
05	SB-426-5.0/7.0-X	SC4941-2	87				0
06	OC-SB-445-0.0/1.0-X	SC4941-3	83				0
07	OC-SB-445-8.0/10-X	SC4941-4RA	111				0
08	OC-SB-446-0.0/1.0-X	SC4995-1RA	114				0
09	OC-SB-446-5.0/7.0-D	SC4995-2RA	117				0
10	SB-446-5.0/7.0-X	SC4995-3RA	118				0
11	OC-SB-448-0.0/1.0-X	SC4995-4RA	110				0
12	OC-SB-448-8.0/10-XX	SC4995-5RA	113				0
13	OC-SB-430-0.0/1.0-X	SC4995-6RA	114				0
14	OC-SB-430-8.0/10-D	SC4995-7RA	122				0
15	SB-430-8.0/10-XX	SC4995-8RA	107				0
16	OC-SB-422-0.0/1.0-X	SC4995-9RA	119				0
17	OC-SB-422-6.0/8.0-X	SC4995-10RA	119				0
18	OC-SB-402-0.0/1.0-X	SC5041-1	120				0
19	OC-SB-402-7.5/9.5-X	SC5041-2	114				0
20	OC-SB-407-0.0/1.0-X	SC5041-3	108				0
21	OC-SB-407-8.0/10-XX	SC5041-4	114				0
22	SB-426-5.0/7.0-XMS	WG68045-4	108				0
23	SB-426-5.0/7.0-XMSD	WG68045-5	112				0
24	SB-446-5.0/7.0-XMS	WG68045-6	112				0
25	SB-446-5.0/7.0-XMSD	WG68045-7	117				0
26	SB-430-8.0/10-XXMS	WG68045-8	117				0
27	SB-430-8.0/10-XXMSD	WG68045-9RA	143*				1
28							

QC LIMITS
SMC1 = diethylformamide (61-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG67967-BLANK	WG67967-1	151				0
02	WG67967-LCS	WG67967-2	70				0
03	OC-EBK-003	SC4941-5	139				0
04	WG68695-BLANK	WG68695-1	121				0
05	WG68695-LCS	WG68695-2	152				0
06	WG68695-LCSD	WG68695-3	162*				1
07	OC-EBK-004	SC4995-11	124				0
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							

QC LIMITS
SMC1 = diethylformamide (56-154)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG67967-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCH2139 Lab Sample ID: WG67967-1

Date Analyzed: 08/31/09 Time Analyzed: 1516

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG67967-LCS	WG67967-2	BCH2145	08/31/09	1742
02	OC-EBK-003	SC4941-5	BCH2153	08/31/09	1936
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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29					
30					

COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68045-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCI2120 Lab Sample ID: WG68045-1

Date Analyzed: 09/02/09 Time Analyzed: 1720

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68045-LCS	WG68045-2	BCI2122	09/02/09	1748
02	WG68045-LCSD	WG68045-3	BCI2124	09/02/09	1816
03	OC-SB-426-5.0/7.0-D	SC4941-1	BCI2126	09/02/09	1845
04	SB-426-5.0/7.0-X	SC4941-2	BCI2128	09/02/09	1913
05	OC-SB-445-0.0/1.0-X	SC4941-3	BCI2130	09/02/09	1942
06	OC-SB-445-8.0/10-X	SC4941-4RA	BCI4096	09/15/09	1509
07	OC-SB-446-0.0/1.0-X	SC4995-1RA	BCI4097	09/15/09	1523
08	OC-SB-446-5.0/7.0-D	SC4995-2RA	BCI4098	09/15/09	1537
09	SB-446-5.0/7.0-X	SC4995-3RA	BCI4099	09/15/09	1551
10	OC-SB-448-0.0/1.0-X	SC4995-4RA	BCI4100	09/15/09	1605
11	OC-SB-448-8.0/10-XX	SC4995-5RA	BCI4101	09/15/09	1619
12	OC-SB-430-0.0/1.0-X	SC4995-6RA	BCI4102	09/15/09	1633
13	OC-SB-430-8.0/10-D	SC4995-7RA	BCI4103	09/15/09	1647
14	SB-430-8.0/10-XX	SC4995-8RA	BCI4104	09/15/09	1701
15	OC-SB-422-0.0/1.0-X	SC4995-9RA	BCI4105	09/15/09	1715
16	OC-SB-422-6.0/8.0-X	SC4995-10RA	BCI4108	09/15/09	1757
17	OC-SB-402-0.0/1.0-X	SC5041-1	BCI4109	09/15/09	1811
18	OC-SB-402-7.5/9.5-X	SC5041-2	BCI4110	09/15/09	1826
19	OC-SB-407-0.0/1.0-X	SC5041-3	BCI4111	09/15/09	1840
20	OC-SB-407-8.0/10-XX	SC5041-4	BCI4112	09/15/09	1854
21	SB-426-5.0/7.0-XMS	WG68045-4	BCI4113	09/15/09	1908
22	SB-426-5.0/7.0-XMSD	WG68045-5	BCI4115	09/15/09	1937
23	SB-446-5.0/7.0-XMS	WG68045-6	BCI4117	09/15/09	2005
24	SB-446-5.0/7.0-XMSD	WG68045-7	BCI4119	09/15/09	2034
25	SB-430-8.0/10-XXMS	WG68045-8	BCI4121	09/15/09	2102
26	SB-430-8.0/10-XXMSD	WG68045-9RA	BCI4159	09/16/09	1041
27					
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG68695-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Lab File ID: BCI4153 Lab Sample ID: WG68695-1

Date Analyzed: 09/16/09 Time Analyzed: 0915

GC Column: ZB-WAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC11

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG68695-LCS	WG68695-2	BCI4154	09/16/09	0929
02	WG68695-LCSD	WG68695-3	BCI4156	09/16/09	0957
03	OC-EBK-004	SC4995-11	BCI4158	09/16/09	1026
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IVDMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 08/31/09 08/31/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		IC 0.05	08/31/09	1154	2.49	
02		ICAL 0.02	08/31/09	1210	2.49	
03		ICAL 0.1	08/31/09	1238	2.49	
04		ICAL 0.25	08/31/09	1306	2.49	
05		ICAL 0.5	08/31/09	1335	2.49	
06	WG67967-BLAN	WG67967-1	08/31/09	1516	2.49	
07	WG67967-LCS	WG67967-2	08/31/09	1742	2.48	
08	OC-EBK-003	SC4941-5	08/31/09	1936	2.49	
09		CV 0.5	08/31/09	2024	2.48	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/01/09 09/01/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.49

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/01/09	1403	2.49	
02		ICAL 0.05	09/01/09	1417	2.49	
03		ICAL 0.1	09/01/09	1431	2.49	
04		ICAL 0.25	09/01/09	1459	2.49	
05		ICAL 0.5	09/01/09	1527	2.48	
06		ICAL 1.0	09/01/09	1610		
07		CV 0.25	09/02/09	1533	2.48	
08	WG68045-BLAN	WG68045-1	09/02/09	1720	2.49	
09	WG68045-LCS	WG68045-2	09/02/09	1748	2.47	
10	WG68045-LCSD	WG68045-3	09/02/09	1816	2.47	
11	OC-SB-426-5.	SC4941-1	09/02/09	1845	2.49	
12	SB-426-5.0/7	SC4941-2	09/02/09	1913	2.49	
13	OC-SB-445-0.	SC4941-3	09/02/09	1942	2.49	
14		CV 0.25	09/03/09	0912	2.48	
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		ICAL 0.02	09/15/09	0936	2.69	
02		ICAL 0.05	09/15/09	0950	2.69	
03		ICAL 0.1	09/15/09	1004	2.69	
04		ICAL 0.25	09/15/09	1032	2.68	
05		ICAL 0.5	09/15/09	1101	2.69	
06		ICAL 1.0	09/15/09	1143		
07		CV 0.25	09/15/09	1435	2.68	
08	OC-SB-445-8.	SC4941-4RA	09/15/09	1509	2.68	
09	OC-SB-446-0.	SC4995-1RA	09/15/09	1523	2.68	
10	OC-SB-446-5.	SC4995-2RA	09/15/09	1537	2.68	
11	SB-446-5.0/7	SC4995-3RA	09/15/09	1551	2.68	
12	OC-SB-448-0.	SC4995-4RA	09/15/09	1605	2.68	
13	OC-SB-448-8.	SC4995-5RA	09/15/09	1619	2.68	
14	OC-SB-430-0.	SC4995-6RA	09/15/09	1633	2.68	
15	OC-SB-430-8.	SC4995-7RA	09/15/09	1647	2.68	
16	SB-430-8.0/1	SC4995-8RA	09/15/09	1701	2.68	
17	OC-SB-422-0.	SC4995-9RA	09/15/09	1715	2.68	
18		CV 0.25	09/15/09	1729	2.68	
19	OC-SB-422-6.	SC4995-10RA	09/15/09	1757	2.68	
20	OC-SB-402-0.	SC5041-1	09/15/09	1811	2.68	

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

GC Column: ZB-WAX ID: 0.53 (mm) Init. Calib. Date(s): 09/15/09 09/15/09

Instrument ID: GC11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 2.68

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	OC-SB-402-7.	SC5041-2	09/15/09	1826	2.68	
02	OC-SB-407-0.	SC5041-3	09/15/09	1840	2.68	
03	OC-SB-407-8.	SC5041-4	09/15/09	1854	2.68	
04	SB-426-5.0/7	WG68045-4	09/15/09	1908	2.68	
05	SB-426-5.0/7	WG68045-5	09/15/09	1937	2.68	
06	SB-446-5.0/7	WG68045-6	09/15/09	2005	2.68	
07	SB-446-5.0/7	WG68045-7	09/15/09	2034	2.68	
08	SB-430-8.0/1	WG68045-8	09/15/09	2102	2.68	
09		CV 0.25	09/15/09	2131	2.68	
10		CV 0.25	09/16/09	0847	2.68	
11	WG68695-BLAN	WG68695-1	09/16/09	0915	2.68	
12	WG68695-LCS	WG68695-2	09/16/09	0929	2.68	
13	WG68695-LCSD	WG68695-3	09/16/09	0957	2.68	
14	OC-EBK-004	SC4995-11	09/16/09	1026	2.68	
15	SB-430-8.0/1	WG68045-9RA	09/16/09	1041	2.68	
16		CV 0.25	09/16/09	1109	2.68	
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DMF

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 18:45
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 85.3

Lab ID: SC4941-1
Client ID: OC-SB-426-5.0/7.0-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.70	1.0	0.80	0.70	0.70
	diethylformamide		90%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2126.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

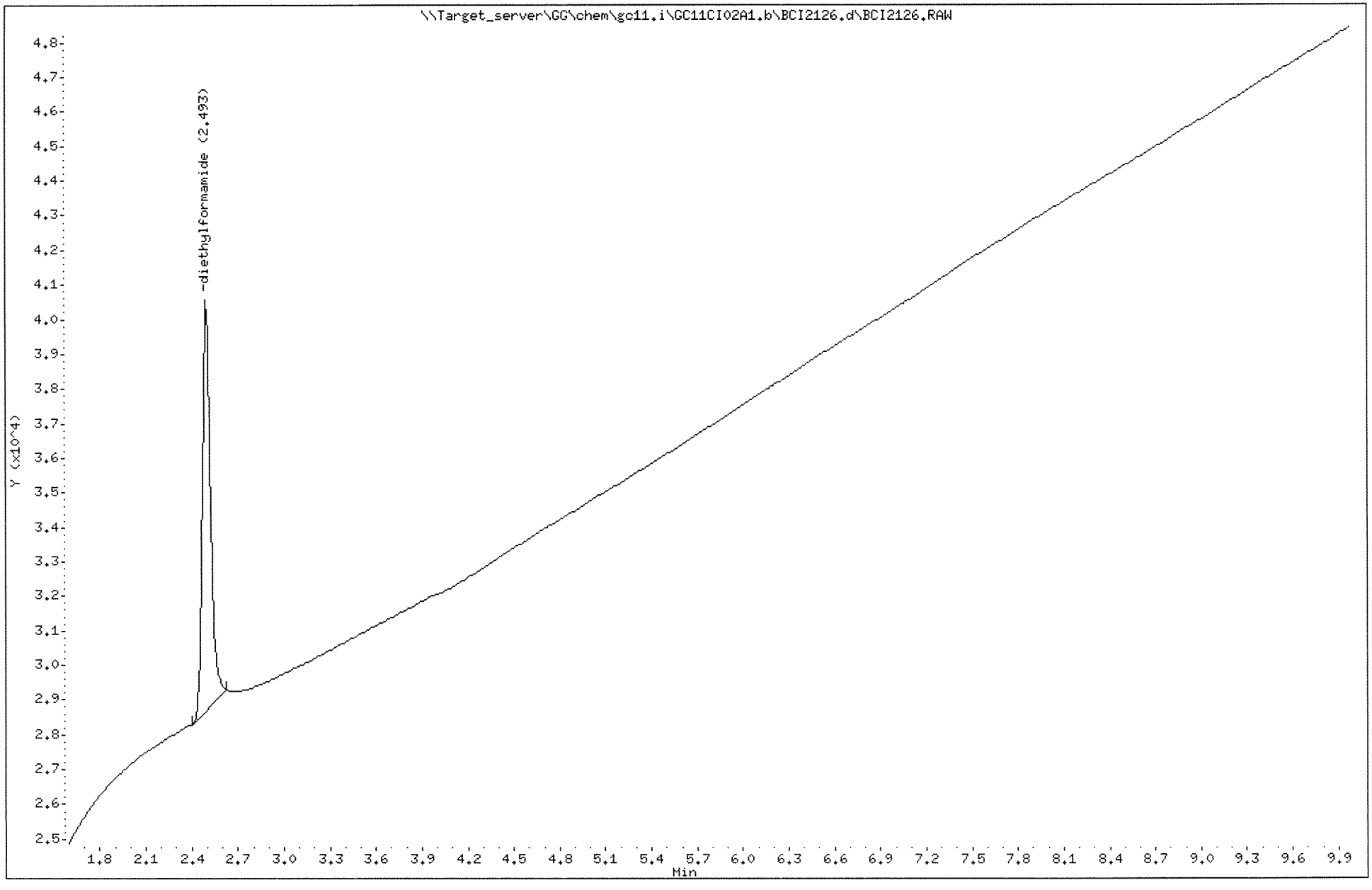
Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2126.d
Lab Smp Id: SC4941-1 Client Smp ID: OC-SB-426-5.0/7.0-D
Inj Date : 02-SEP-2009 18:45
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,SC4941-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00133	Sample Weight
M	14.734	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	43611	0.44911	15.8	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2126.d
Date : 02-SEP-2009 18:45
Client ID: OC-SB-426-5.0/7.0-D
Instrument: gc11.i
Sample Info: DMFB036A.M,GC11CI02A1.B,1,SC4941-1
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000017

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 19:13
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 85.3

Lab ID: SC4941-2
Client ID: SB-426-5.0/7.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.73	1.0	0.80	0.73	0.73
	diethylformamide		87%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2128.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

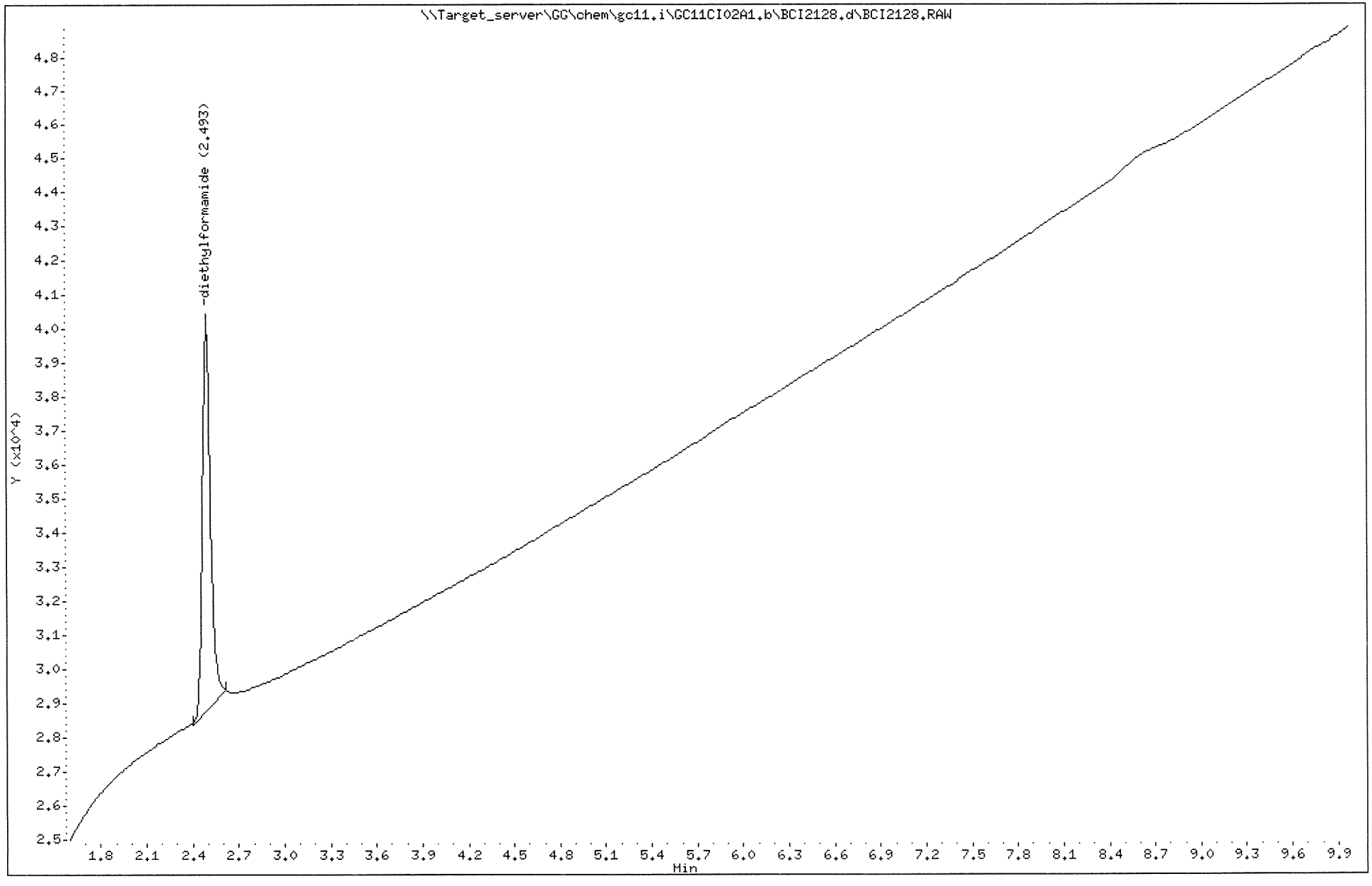
Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2128.d
Lab Smp Id: SC4941-2 Client Smp ID: SB-426-5.0/7.0-X
Inj Date : 02-SEP-2009 19:13
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,SC4941-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00128	Sample Weight
M	14.653	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	41762	0.43455	15.9	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2128.d
Date : 02-SEP-2009 19:13
Client ID: SB-426-5.0/7.0-X
Instrument: gc11.i
Sample Info: DMFB036A.M,GC11CI02A1.B,1,SC4941-2
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000020

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 19:42
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 98.6

Lab ID: SC4941-3
Client ID: OC-SB-445-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.69	1.0	0.80	0.69	0.69
	diethylformamide		83%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2130.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2130.d
Lab Smp Id: SC4941-3 Client Smp ID: OC-SB-445-0.0/1.0-X
Inj Date : 02-SEP-2009 19:42
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,SC4941-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

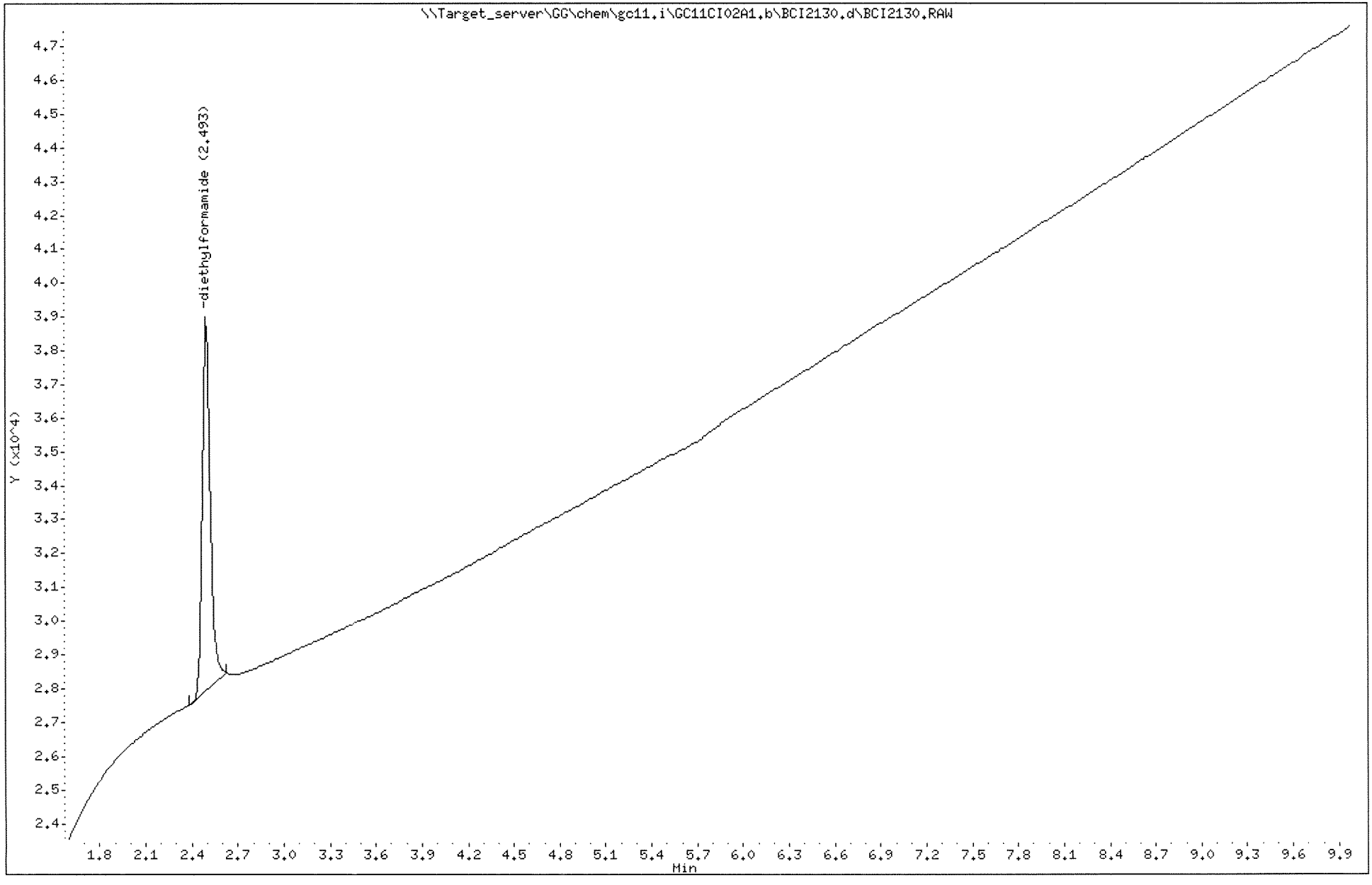
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00117	Sample Weight
M	1.348	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	39447	0.41631	14.4	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2130.d
Date : 02-SEP-2009 19:42
Client ID: OC-SB-445-0.0/1.0-X
Sample Info: DMFB036A.M,GC11CI02A1.B,1,SC4941-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000023

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:09
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 84.6

Lab ID: SC4941-4RA
Client ID: OC-SB-445-8.0/10-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.81	1.0	0.80	0.81	0.81
	diethylformamide		111%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4096.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4096.d
Lab Smp Id: SC4941-4RA Client Smp ID: OC-SB-445-8.0/10-X
Inj Date : 15-SEP-2009 15:09
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4941-4RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00117	Sample Weight
M	15.436	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	31538	0.55662	22.5(M)	M5

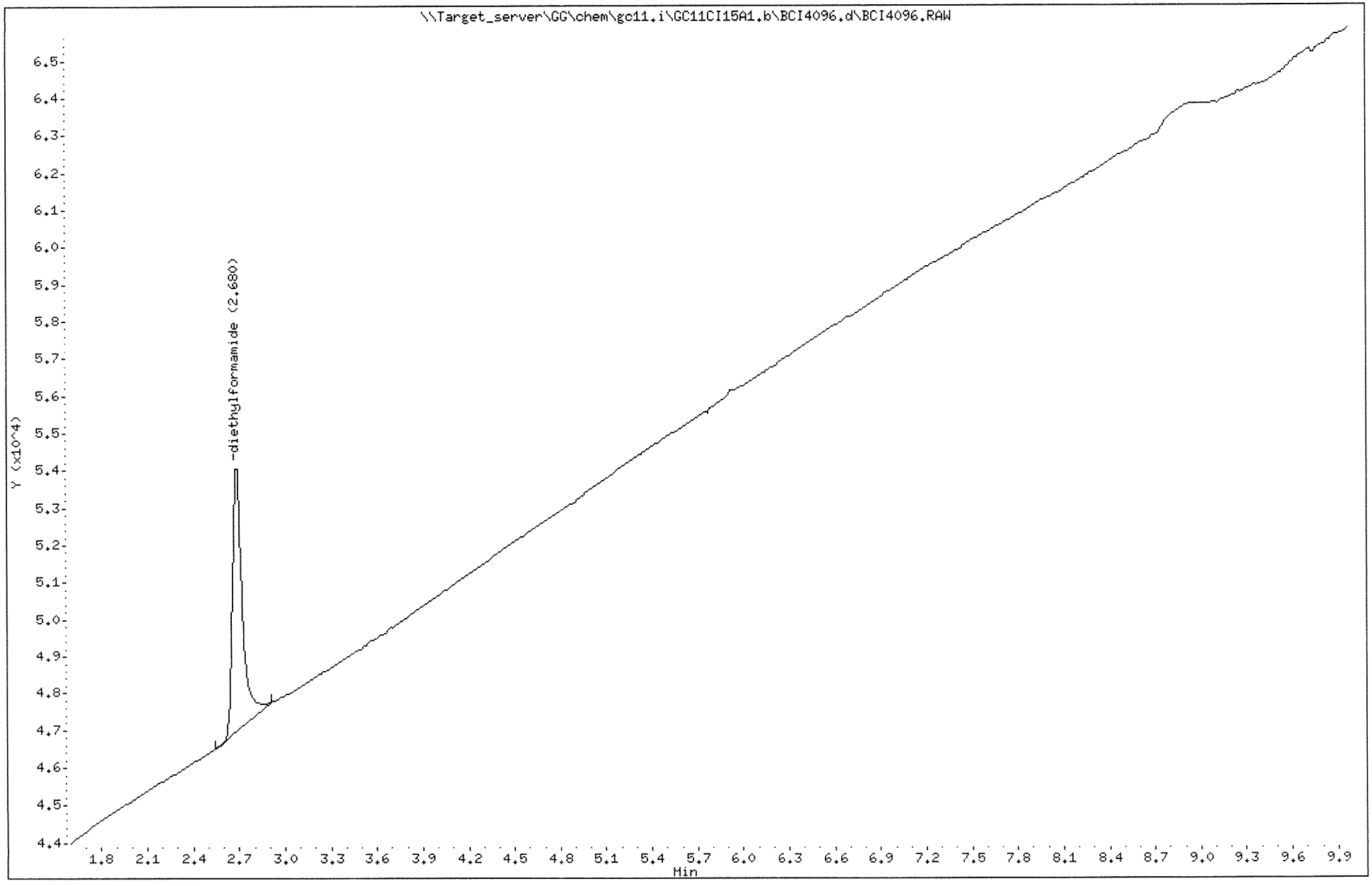
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4096.d
Date : 15-SEP-2009 15:09
Client ID: OC-SB-445-8.0/10-X
Sample Info: DMFB038A,M,GC11CI15A1.B,1,SC4941-4RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000026

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/21/09
Received Date: 08/22/09
Extraction Date:
Analysis Date: 31-AUG-2009 19:36
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: SC4941-5
Client ID: OC-EBK-003
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		139%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2153.d
Report Date: 16-Sep-2009 12:26

Katahdin Analytical Services

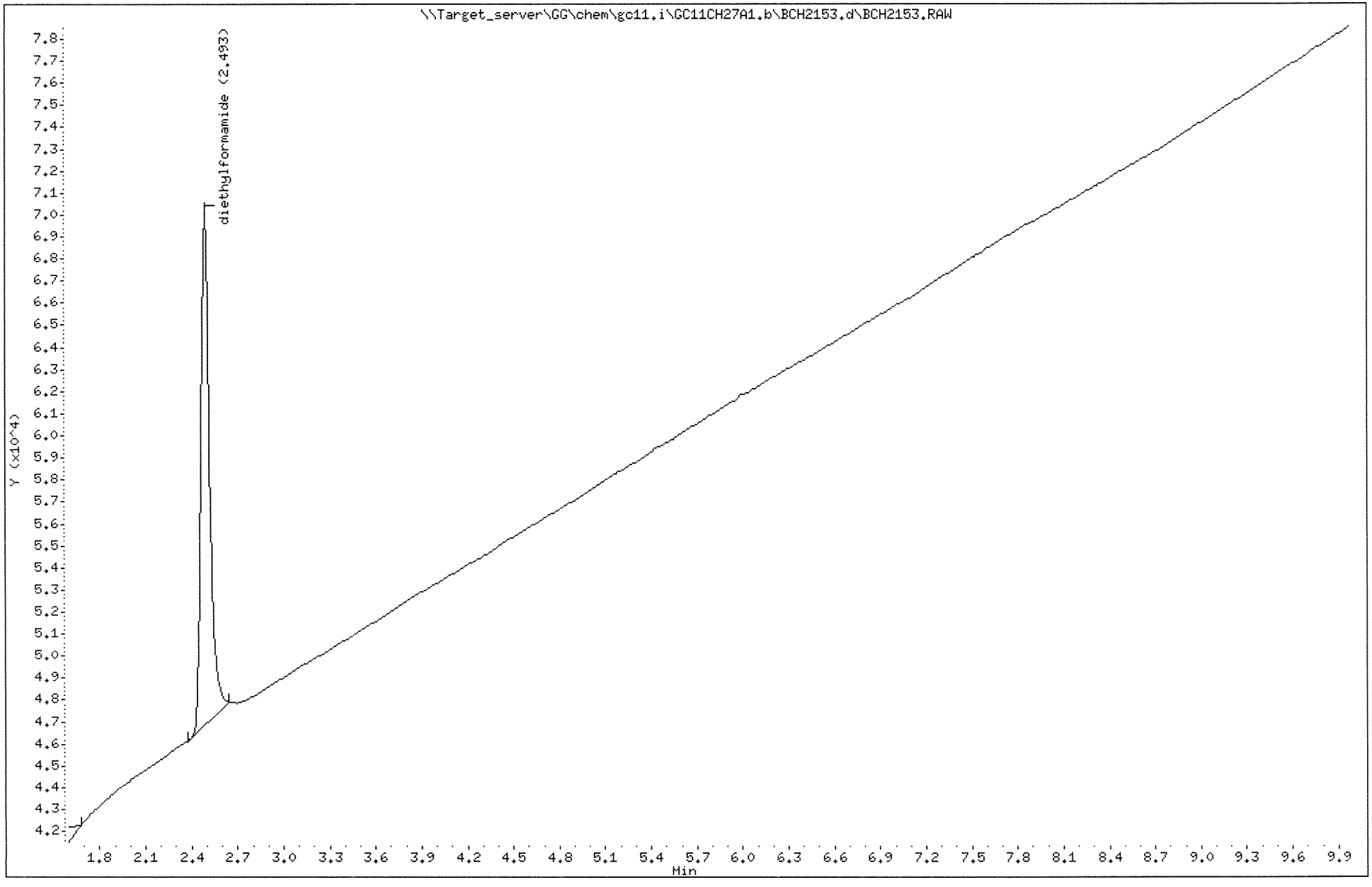
Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2153.d
Lab Smp Id: SC4941-5 Client Smp ID: OC-EBK-003
Inj Date : 31-AUG-2009 19:36
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,SC4941-5
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 15-Sep-2009 15:23 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:06 Cal File: BCH2132.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	91225	0.69739	0.697	

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2153.d
Date : 31-AUG-2009 19:36
Client ID: OC-EBK-003
Instrument: gc11.i
Sample Info: DMFB035A.M,GC11CH27A1.B,1,SC4941-5
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000029

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:23
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 93.7

Lab ID: SC4995-1RA
Client ID: OC-SB-446-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		114%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4097.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4097.d
Lab Smp Id: SC4995-1RA Client Smp ID: OC-SB-446-0.0/1.0-X
Inj Date : 15-SEP-2009 15:23
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-1RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00112	Sample Weight
M	6.276	% Moisture
Cpnd Variable		Local Compound Variable

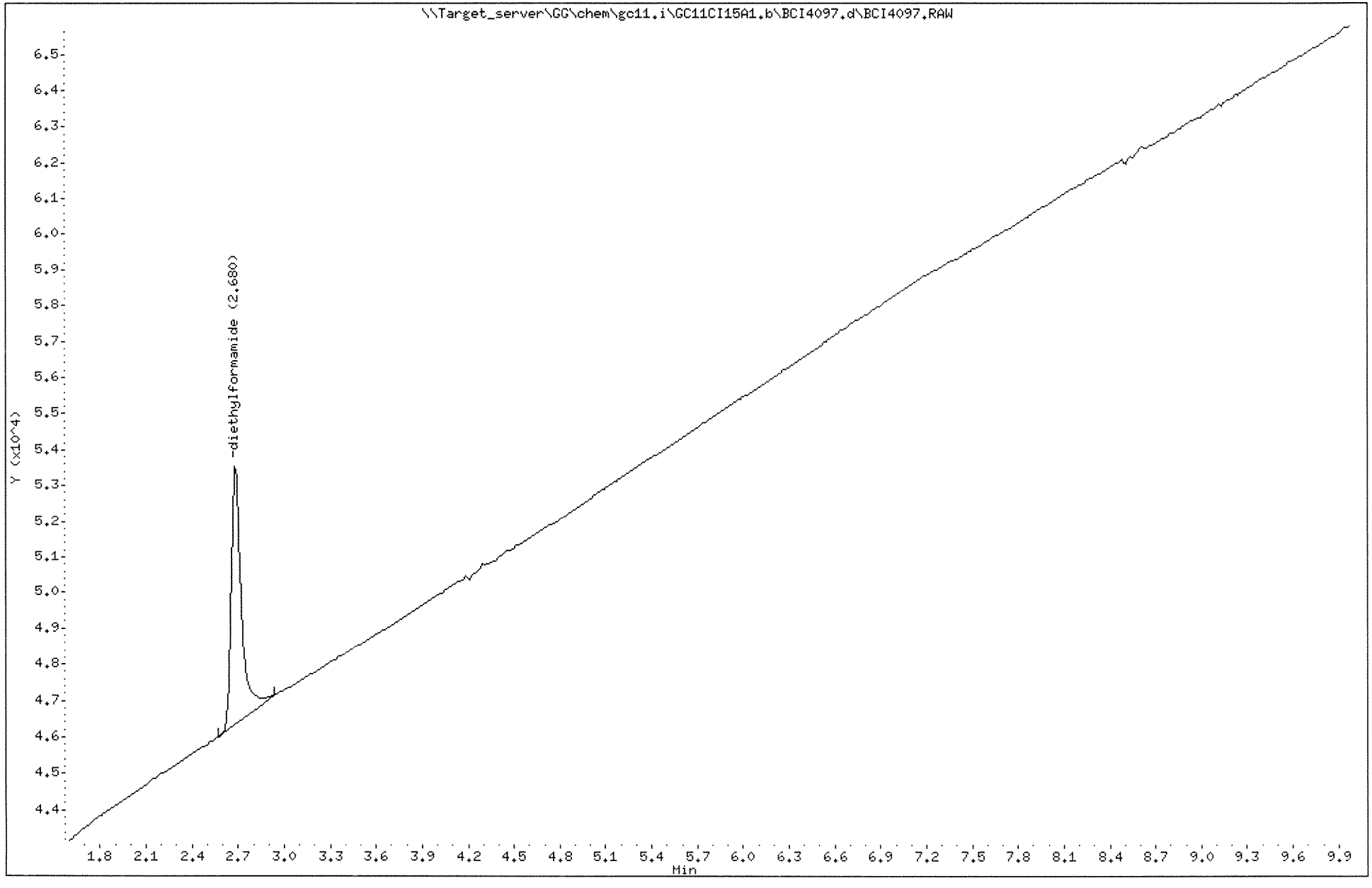
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32381	0.56883	21.7(M)	M5

JLP 09/16/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4097.d
Date : 15-SEP-2009 15:23
Client ID: OC-SB-446-0.0/1.0-X
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-1RA
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000032

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:37
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 81.9

Lab ID: SC4995-2RA
Client ID: OC-SB-446-5.0/7.0-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.62	1.0	0.80	0.62	0.62
	diethylformamide		117%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4098.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4098.d
Lab Smp Id: SC4995-2RA Client Smp ID: OC-SB-446-5.0/7.0-D
Inj Date : 15-SEP-2009 15:37
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-2RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00156	Sample Weight
M	18.075	% Moisture
Cpnd Variable		Local Compound Variable

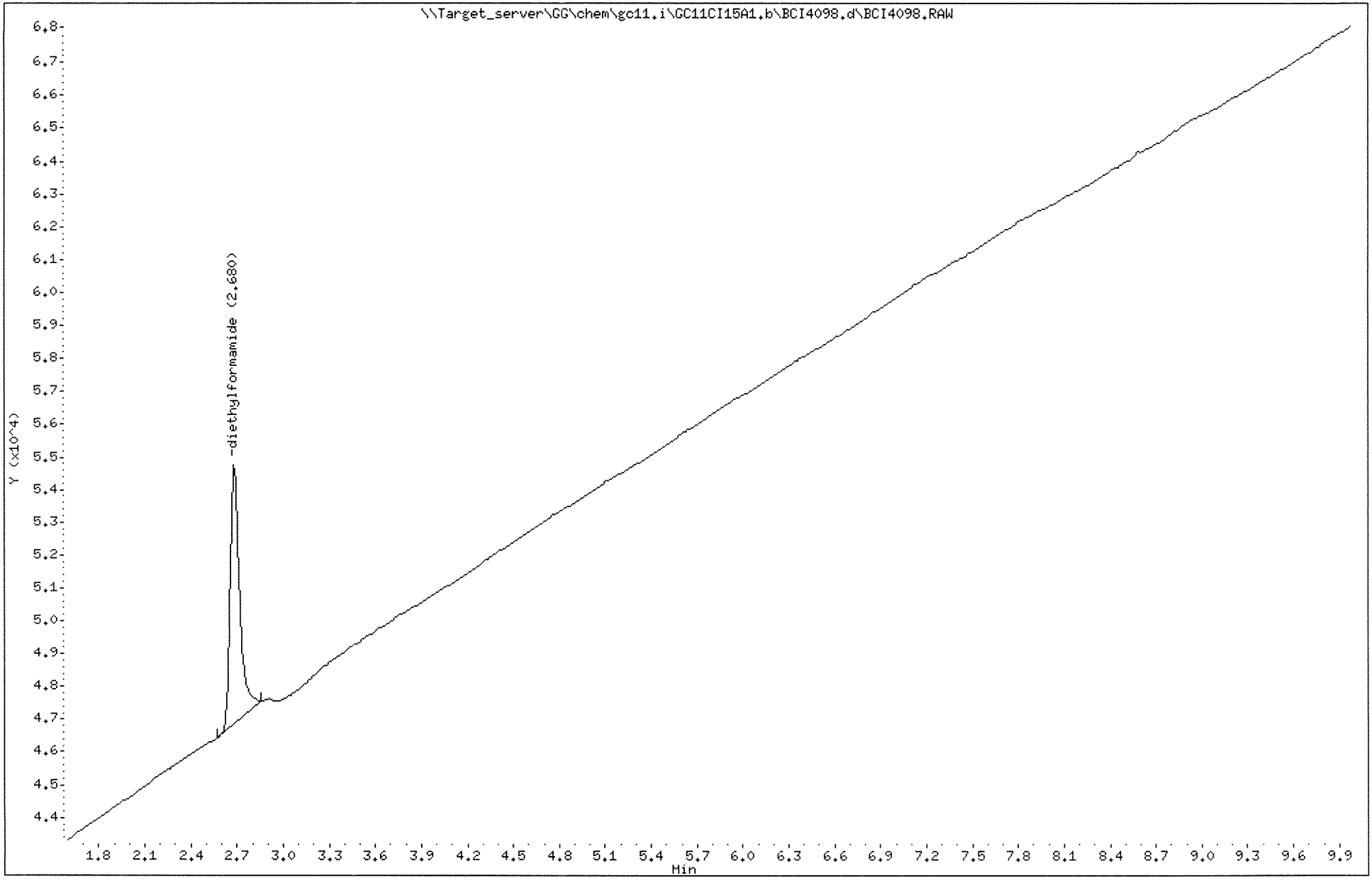
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	33417	0.58383	18.3(M)	M5

JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4098.d
Date : 15-SEP-2009 15:37
Client ID: OC-SB-446-5.0/7.0-D
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-2RA
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000035

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 15:51
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 82.4

Lab ID: SC4995-3RA
Client ID: SB-446-5.0/7.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		118%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4099.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4099.d
Lab Smp Id: SC4995-3RA Client Smp ID: SB-446-5.0/7.0-X
Inj Date : 15-SEP-2009 15:51
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-3RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00128	Sample Weight
M	17.557	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	33879	0.59052	22.4(M)	M5

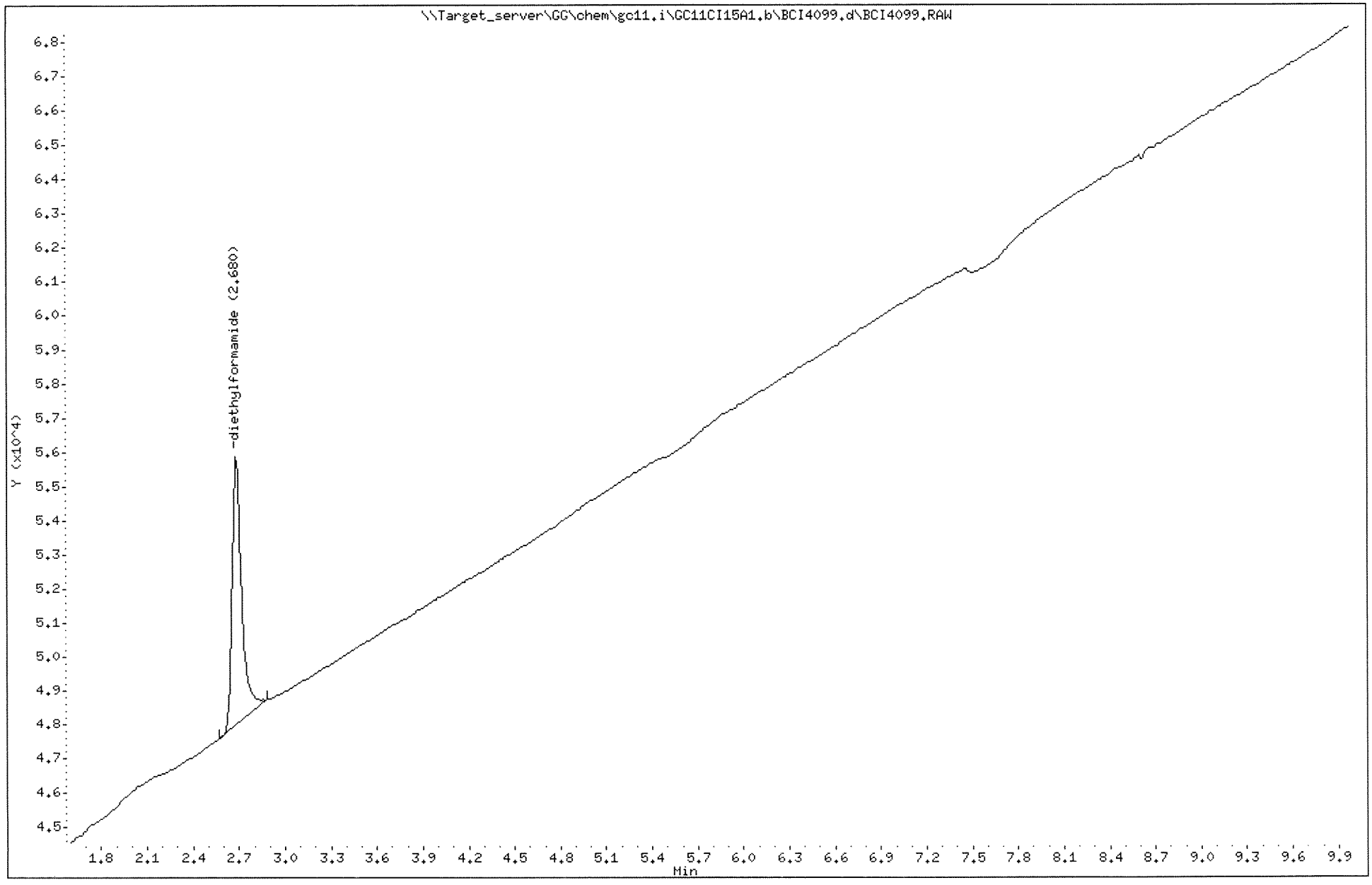
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4099.d
Date : 15-SEP-2009 15:51
Client ID: SB-446-5.0/7.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-3RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000038

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/01
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:05
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 95.0

Lab ID: SC4995-4RA
Client ID: OC-SB-448-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.67	1.0	0.80	0.67	0.67
	diethylformamide		110%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4100.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4100.d
Lab Smp Id: SC4995-4RA Client Smp ID: OC-SB-448-0.0/1.0-X
Inj Date : 15-SEP-2009 16:05
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-4RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

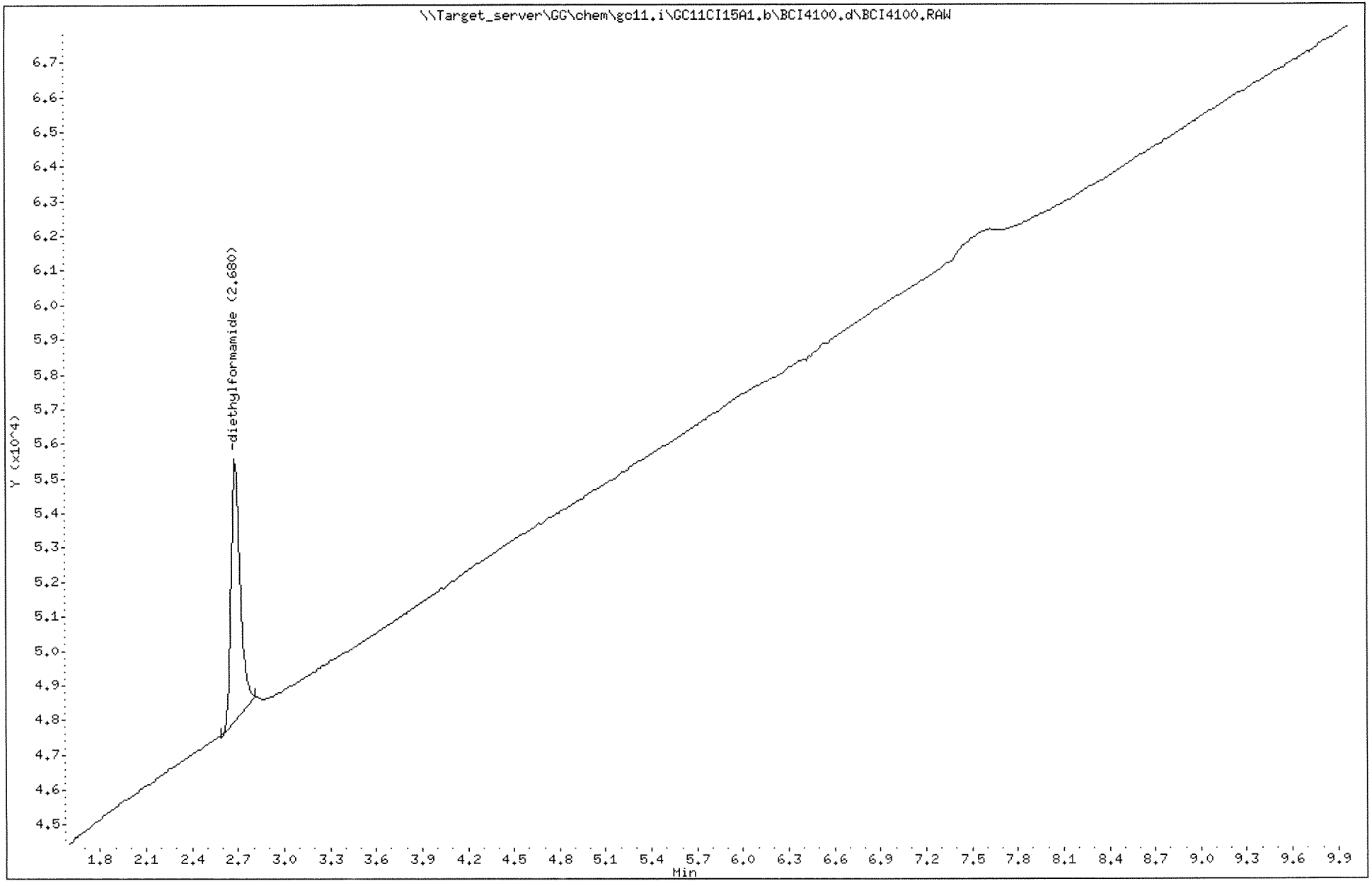
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00126	Sample Weight
M	5.012	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	31149	0.55098	18.4	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4100.d
Date : 15-SEP-2009 16:05
Client ID: OC-SB-448-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-4RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000041

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/01
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:19
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 84.2

Lab ID: SC4995-5RA
Client ID: OC-SB-448-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.73	1.0	0.80	0.73	0.73
	diethylformamide		113%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4101.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

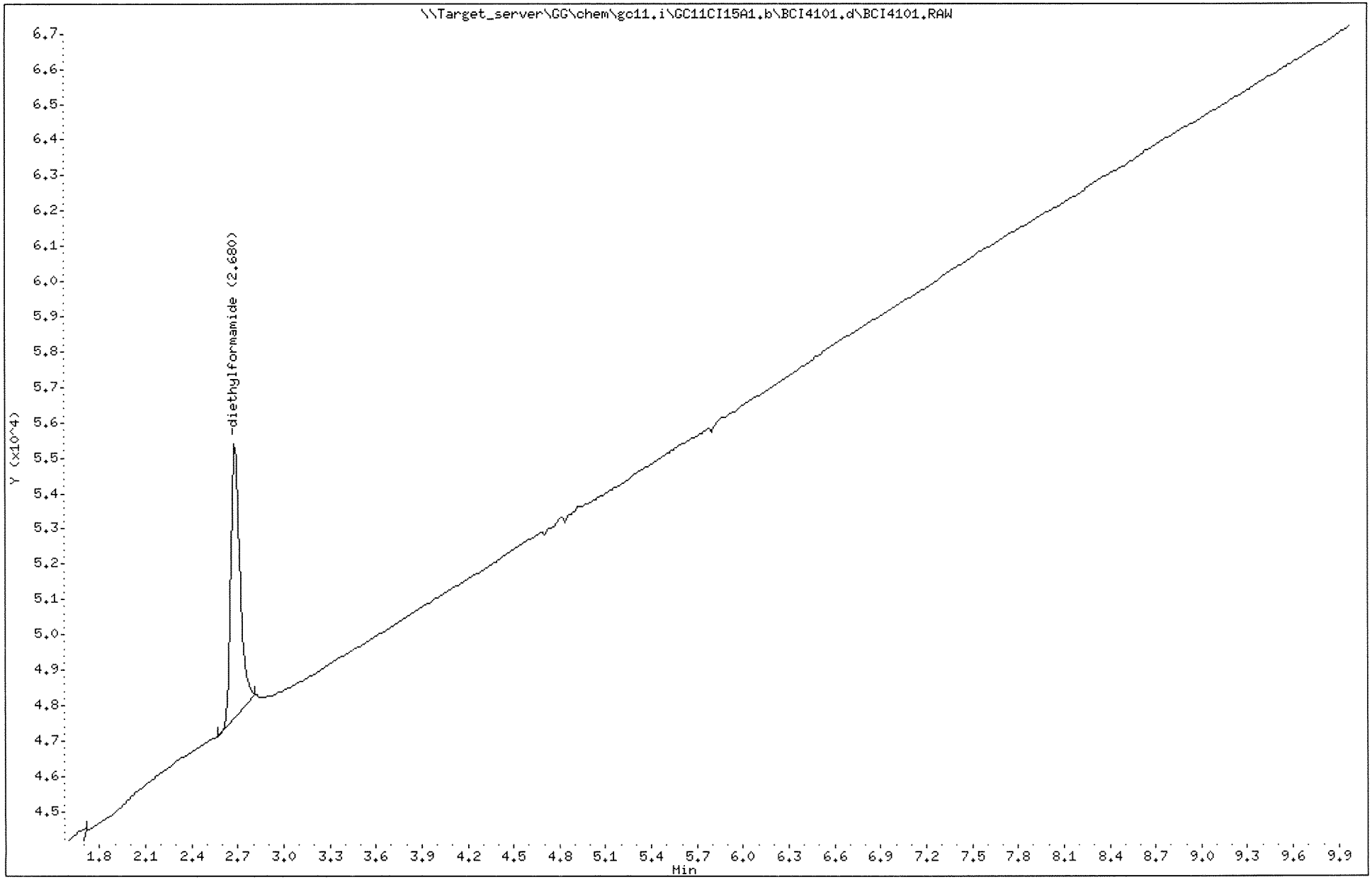
Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4101.d
Lab Smp Id: SC4995-5RA Client Smp ID: OC-SB-448-8.0/10-XX
Inj Date : 15-SEP-2009 16:19
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-5RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00130	Sample Weight
M	15.797	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32039	0.56387	20.6	

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4101.d
Date : 15-SEP-2009 16:19
Client ID: OC-SB-448-8.0/10-XX
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-5RA
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000044

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:33
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 96.9

Lab ID: SC4995-6RA
Client ID: OC-SB-430-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.68	1.0	0.80	0.68	0.68
	diethylformamide		114%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4102.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4102.d
Lab Smp Id: SC4995-6RA Client Smp ID: OC-SB-430-0.0/1.0-X
Inj Date : 15-SEP-2009 16:33
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-6RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

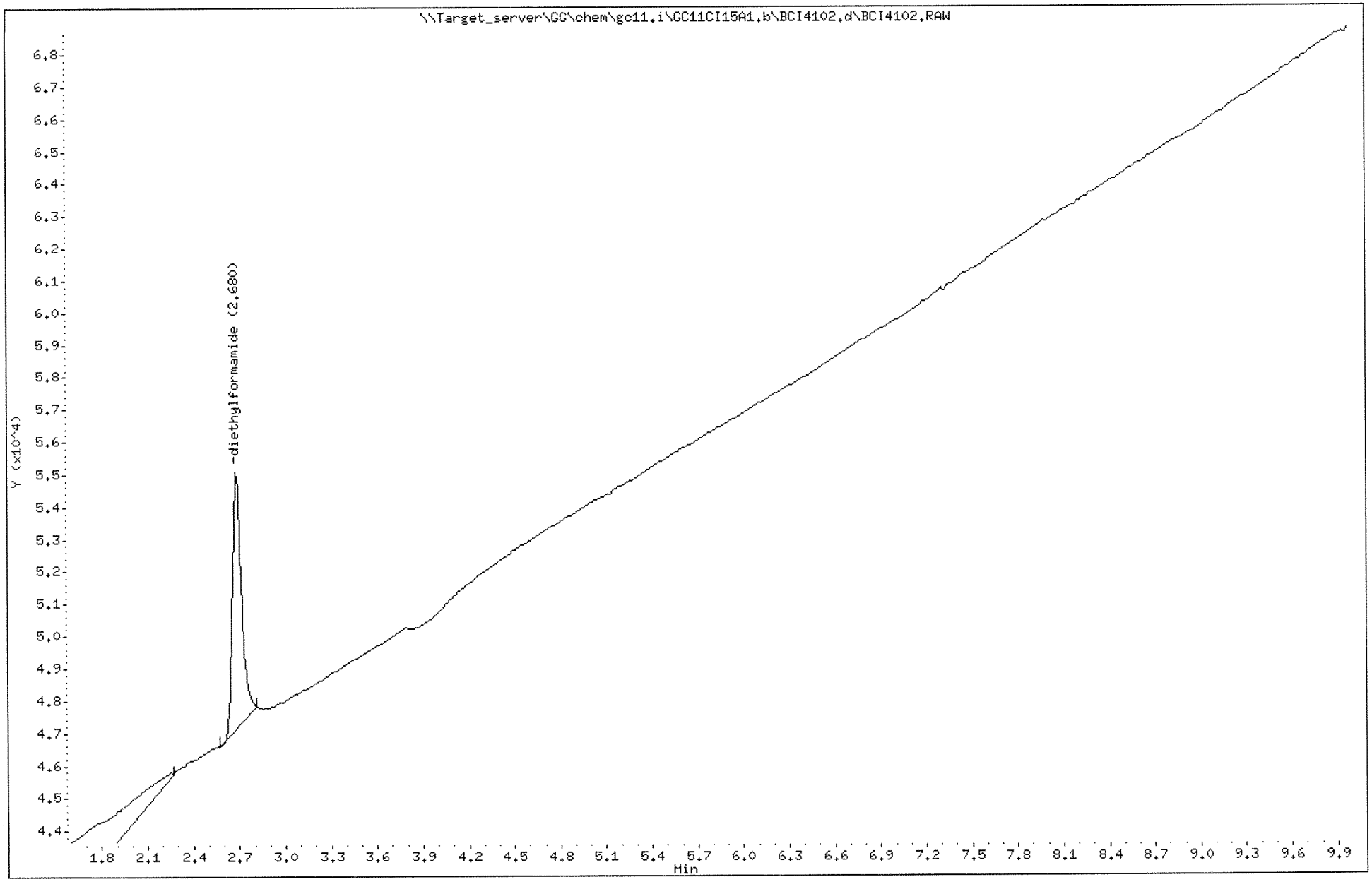
Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00122	Sample Weight
M	3.131	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32570	0.57156	19.3	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4102.d
Date : 15-SEP-2009 16:33
Client ID: OC-SB-430-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-6RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000047

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 16:47
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 94.3

Lab ID: SC4995-7RA
Client ID: OC-SB-430-8.0/10-D
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		122%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4103.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4103.d
Lab Smp Id: SC4995-7RA Client Smp ID: OC-SB-430-8.0/10-D
Inj Date : 15-SEP-2009 16:47
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-7RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00103	Sample Weight
M	5.674	% Moisture
Cpnd Variable		Local Compound Variable

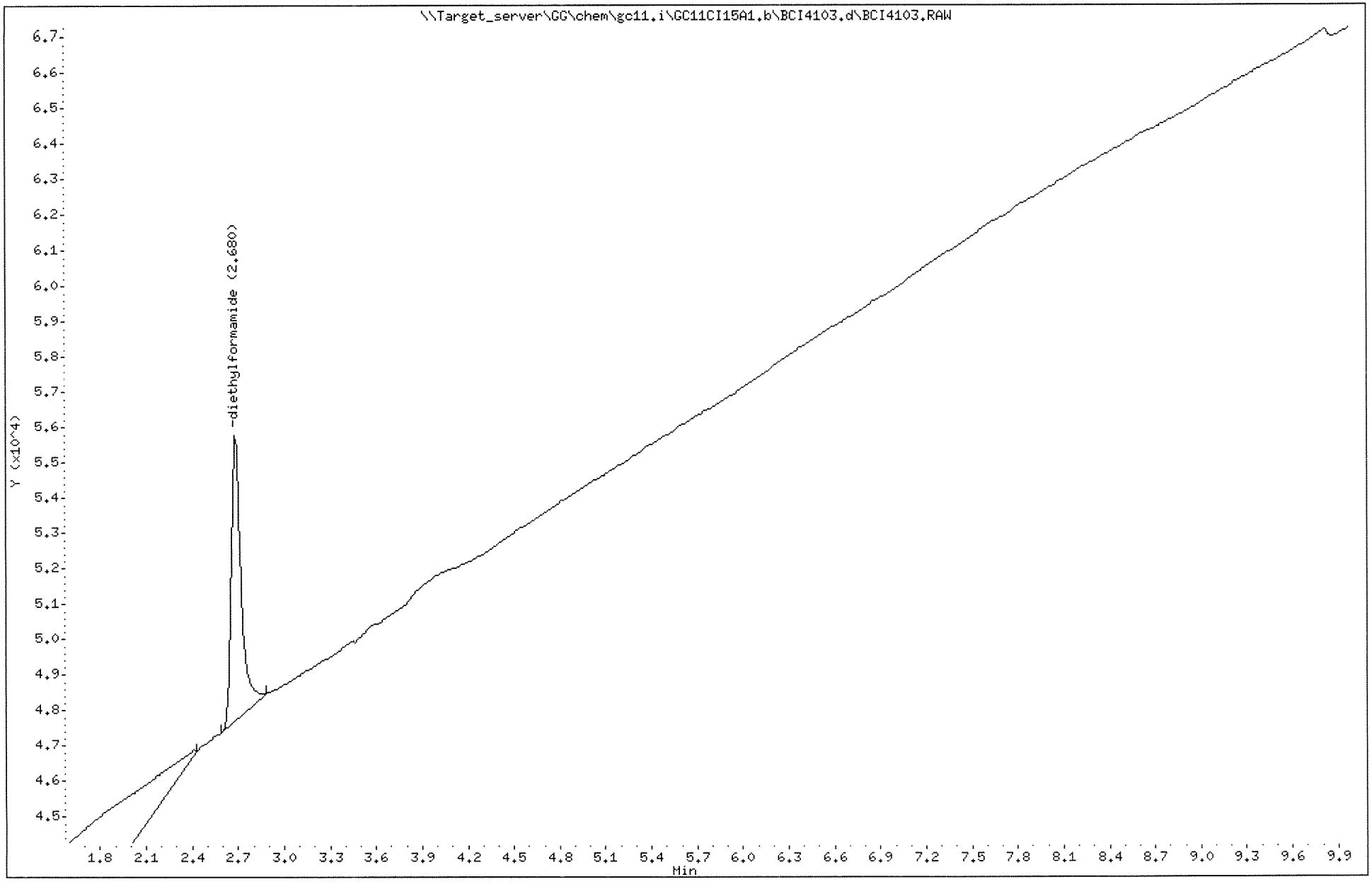
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35416	0.61278	25.2(M)	M5

JLP 091605

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4103.d
Date : 15-SEP-2009 16:47
Client ID: OC-SB-430-8.0/10-D
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-7RA
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000050

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:01
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 91.1

Lab ID: SC4995-8RA
Client ID: SB-430-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.63	1.0	0.80	0.63	0.63
	diethylformamide		107%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4104.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4104.d
Lab Smp Id: SC4995-8RA Client Smp ID: SB-430-8.0/10-XX
Inj Date : 15-SEP-2009 17:01
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-8RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00139	Sample Weight
M	8.916	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	30208	0.53736	17.0(M)	M5

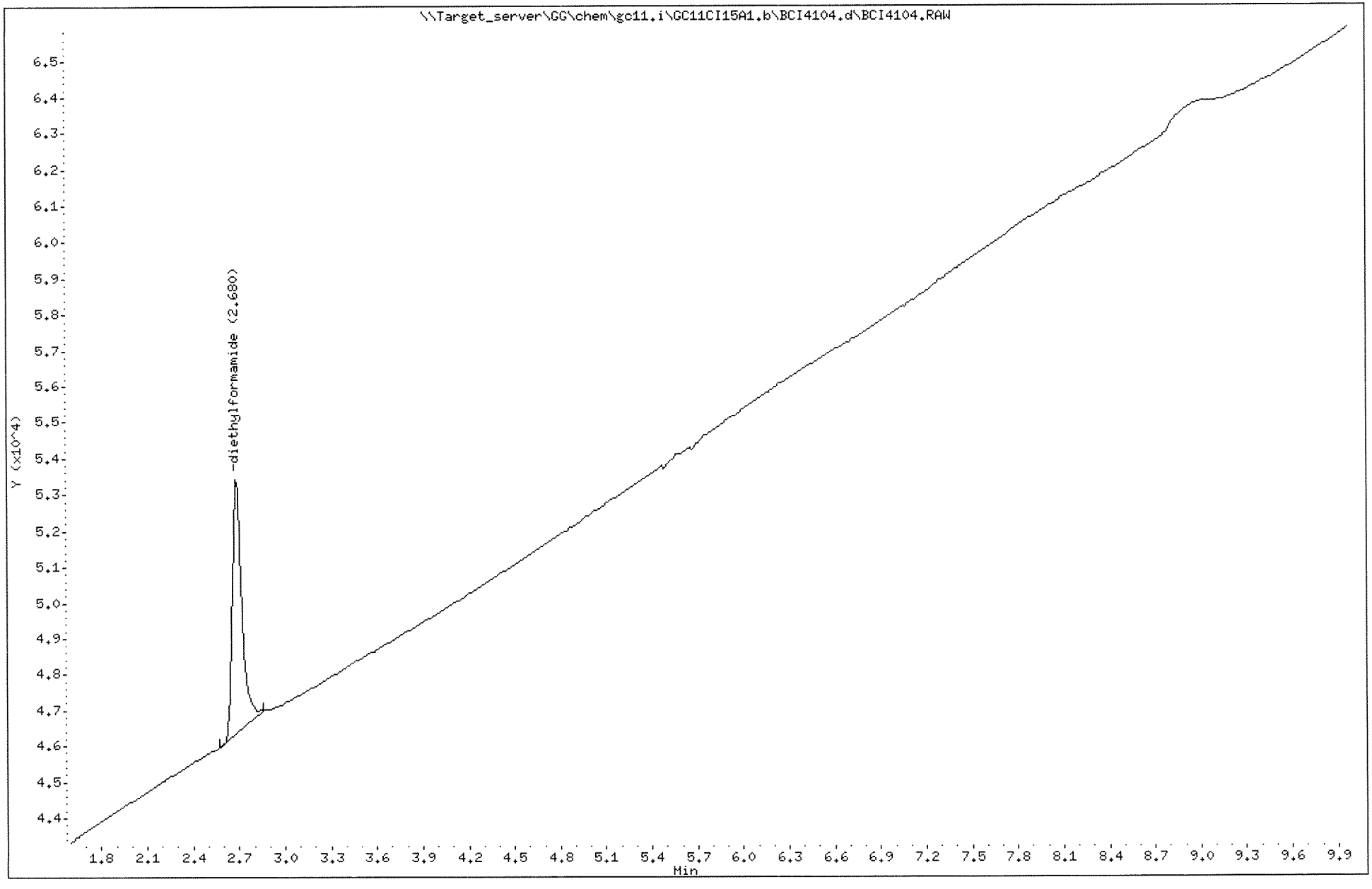
JP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4104.d
Date : 15-SEP-2009 17:01
Client ID: SB-430-8.0/10-XX
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-8RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000053

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:15
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 96.4

Lab ID: SC4995-9RA
Client ID: OC-SB-422-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		119%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4105.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4105.d
Lab Smp Id: SC4995-9RA Client Smp ID: OC-SB-422-0.0/1.0-X
Inj Date : 15-SEP-2009 17:15
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-9RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00101	Sample Weight
M	3.541	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34254	0.59595	24.5(M)	M5

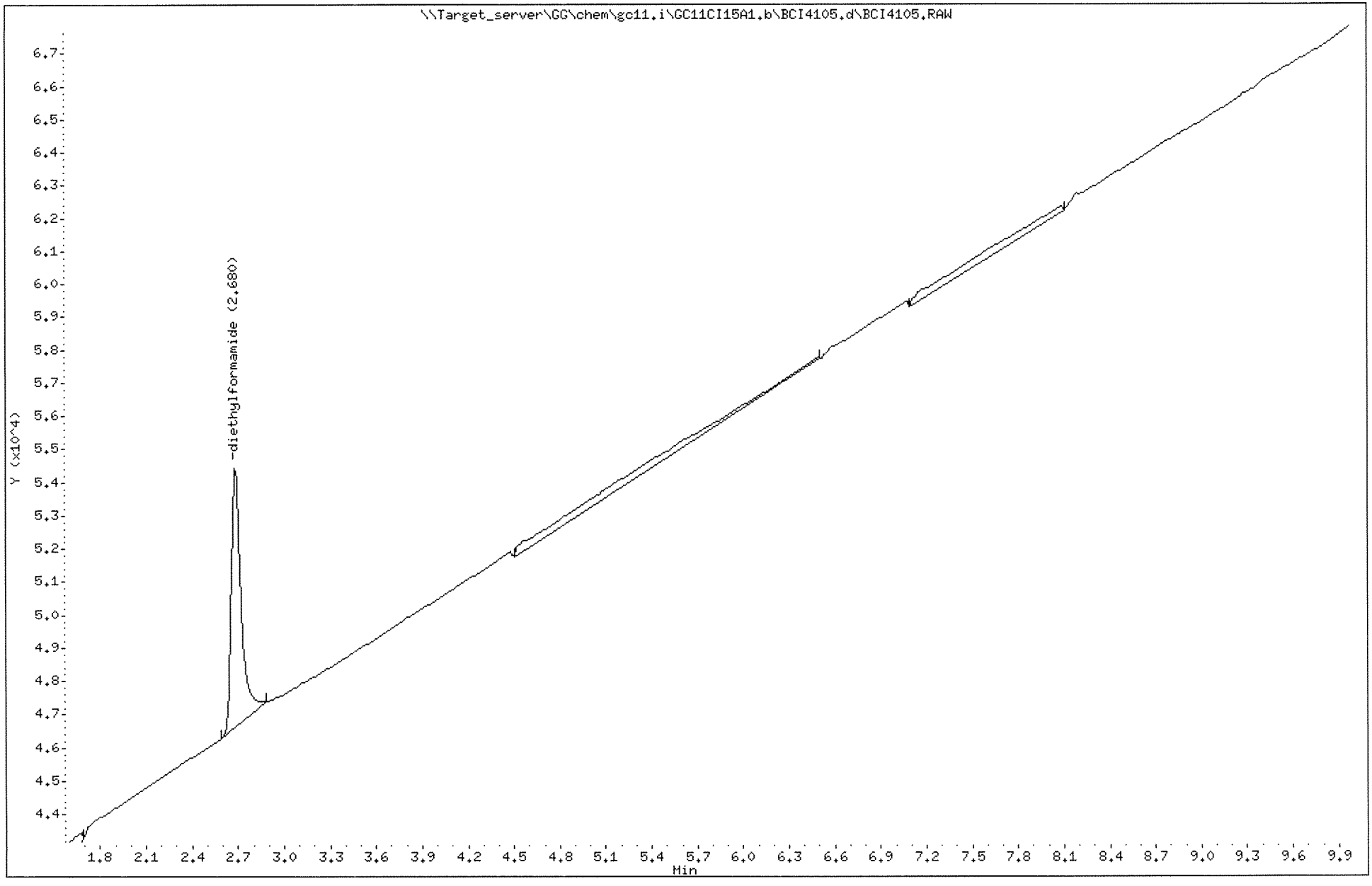
JW 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4105.d
Date : 15-SEP-2009 17:15
Client ID: OC-SB-422-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-9RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000056

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 17:57
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 86.3

Lab ID: SC4995-10RA
Client ID: OC-SB-422-6.0/8.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.79	1.0	0.80	0.79	0.79
	diethylformamide		119%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4108.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4108.d
Lab Smp Id: SC4995-10RA Client Smp ID: OC-SB-422-6.0/8.0-X
Inj Date : 15-SEP-2009 17:57
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC4995-10RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00117	Sample Weight
M	13.671	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34245	0.59582	23.6(M)	M5

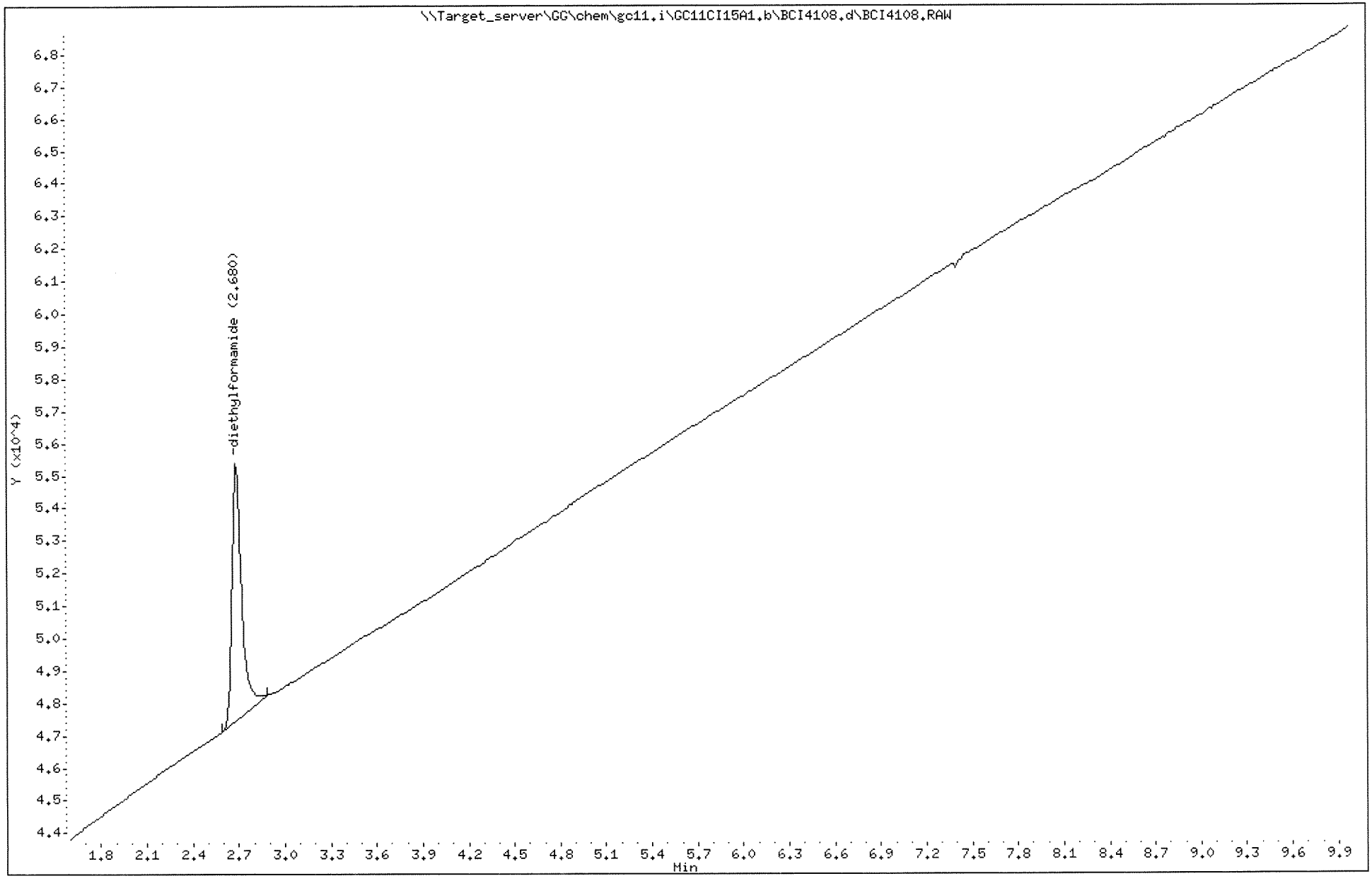
JLP 09/16/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4108.d
Date : 15-SEP-2009 17:57
Client ID: OC-SB-422-6.0/8.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC4995-10RA
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000059

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date:
Analysis Date: 16-SEP-2009 10:26
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: SC4995-11
Client ID: OC-EBK-004
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		124%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4158.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4158.d
Lab Smp Id: SC4995-11 Client Smp ID: OC-EBK-004
Inj Date : 16-SEP-2009 10:26
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,SC4995-11
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

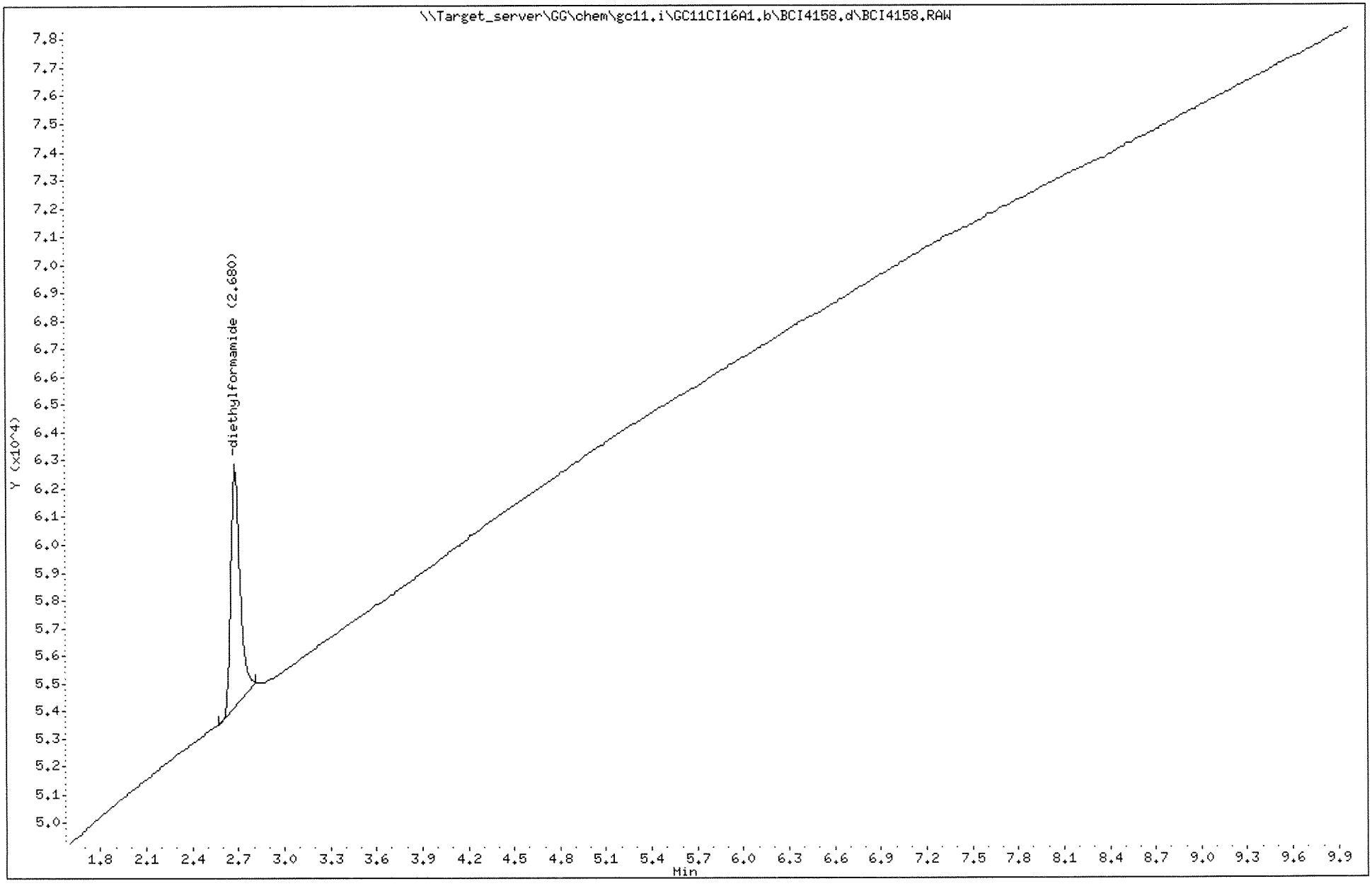
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	35785	0.61812	0.618	

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4158.d
Date : 16-SEP-2009 10:26
Client ID: OC-EBK-004
Sample Info: DMFB038A.M,GC11CI16A1.B,1,SC4995-11
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000062

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:11
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 95.1

Lab ID: SC5041-1
Client ID: OC-SB-402-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.72	1.0	0.80	0.72	0.72
	diethylformamide		120%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4109.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4109.d
Lab Smp Id: SC5041-1 Client Smp ID: OC-SB-402-0.0/1.0-X
Inj Date : 15-SEP-2009 18:11
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5041-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00117	Sample Weight
M	4.930	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34652	0.60171	21.6(M)	M5

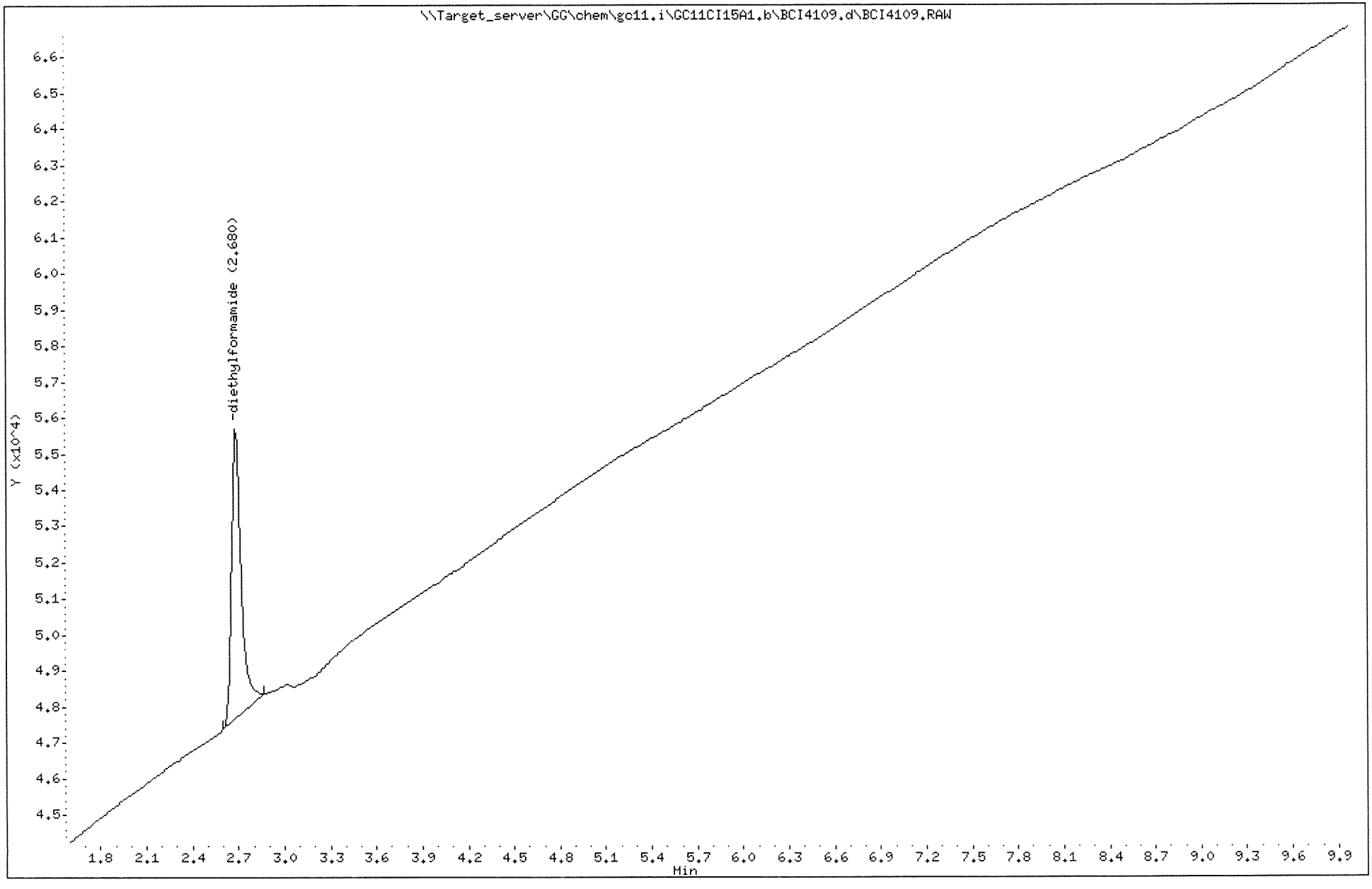
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4109.d
Date : 15-SEP-2009 18:11
Client ID: OC-SB-402-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5041-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000065

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:26
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 92.1

Lab ID: SC5041-2
Client ID: OC-SB-402-7.5/9.5-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.82	1.0	0.80	0.82	0.82
	diethylformamide		114%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4110.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4110.d
Lab Smp Id: SC5041-2 Client Smp ID: OC-SB-402-7.5/9.5-X
Inj Date : 15-SEP-2009 18:26
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5041-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00106	Sample Weight
M	7.856	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32419	0.56938	23.3(M)	M5

JLP 091609

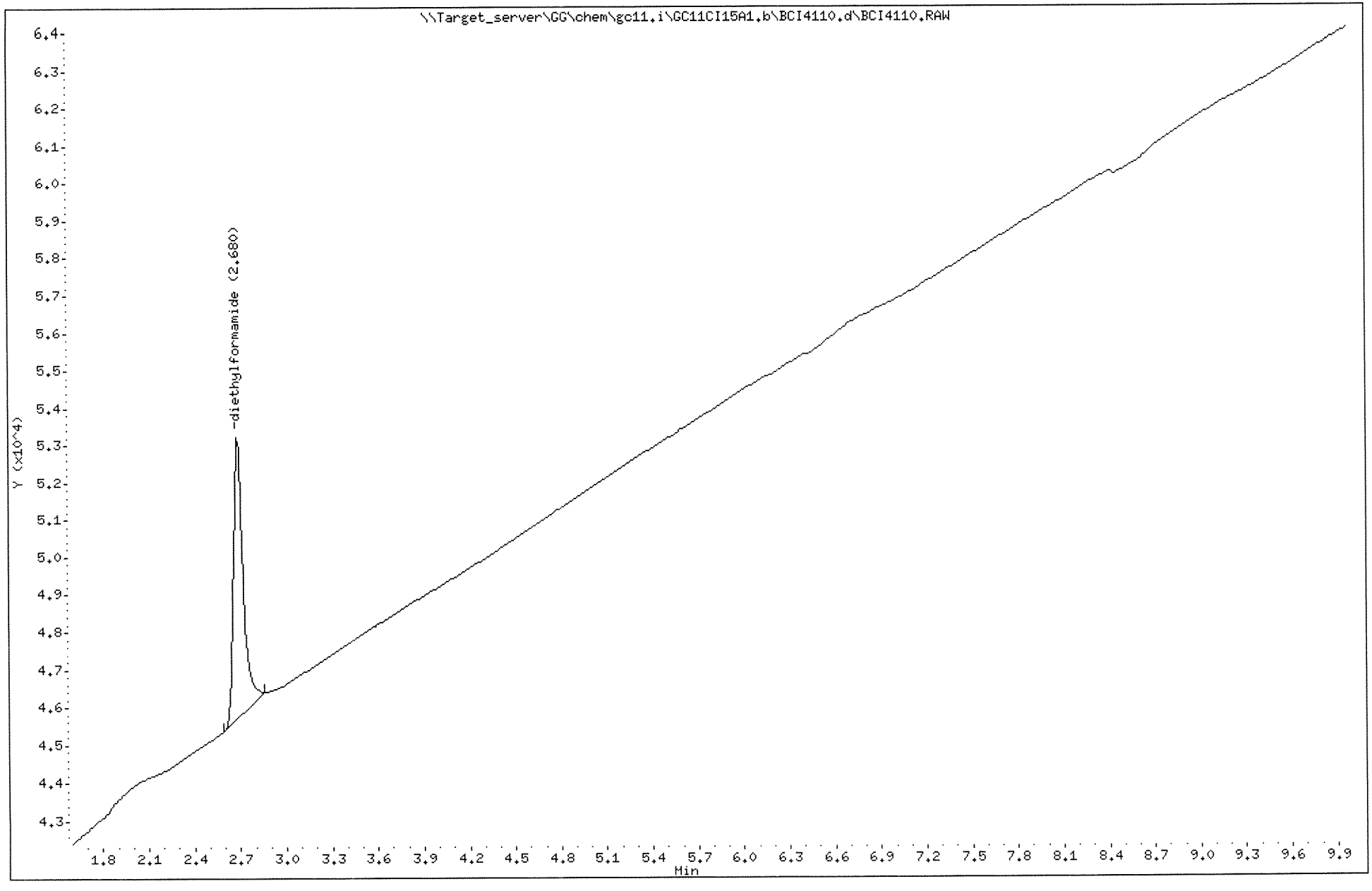
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4110.d
Date : 15-SEP-2009 18:26
Client ID: OC-SB-402-7.5/9.5-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5041-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000068

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:40
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 90.2

Lab ID: SC5041-3
Client ID: OC-SB-407-0.0/1.0-X
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		108%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4111.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4111.d
Lab Smp Id: SC5041-3 Client Smp ID: OC-SB-407-0.0/1.0-X
Inj Date : 15-SEP-2009 18:40
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5041-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00111	Sample Weight
M	9.766	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	30551	0.54232	21.6(M)	M5

JLP 091609

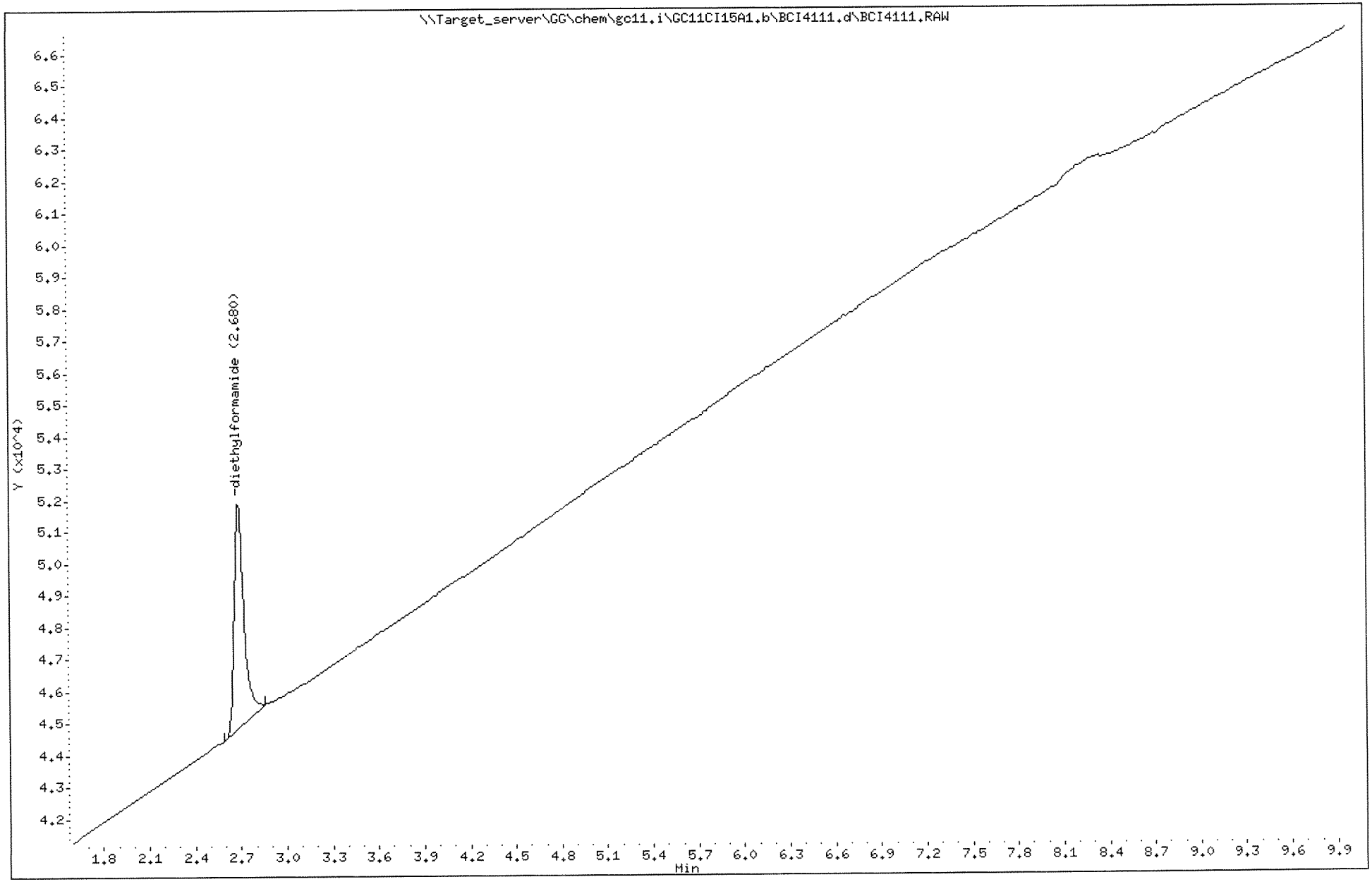
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4111.d
Date : 15-SEP-2009 18:40
Client ID: OC-SB-407-0.0/1.0-X
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5041-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000071

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/26/09
Received Date: 08/27/09
Extraction Date: 08/31/09
Analysis Date: 15-SEP-2009 18:54
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 82.2

Lab ID: SC5041-4
Client ID: OC-SB-407-8.0/10-XX
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.76	1.0	0.80	0.76	0.76
	diethylformamide		114%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4112.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4112.d
Lab Smp Id: SC5041-4 Client Smp ID: OC-SB-407-8.0/10-XX
Inj Date : 15-SEP-2009 18:54
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,SC5041-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00128	Sample Weight
M	17.827	% Moisture
Cpnd Variable		Local Compound Variable

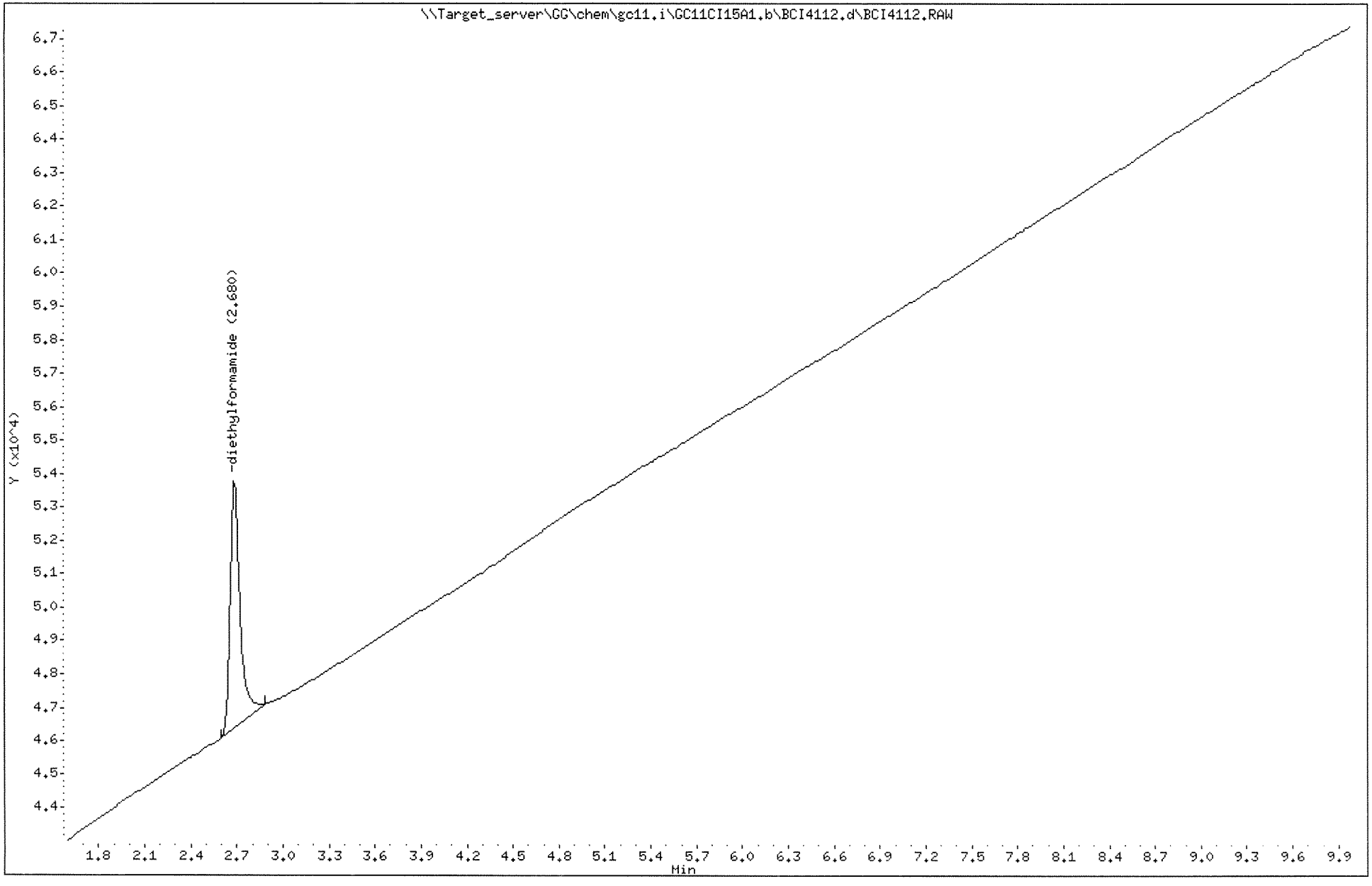
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	32595	0.57193	21.8(M)	M5

JV 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4112.d
Date : 15-SEP-2009 18:54
Client ID: OC-SB-407-8.0/10-XX
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,SC5041-4
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000074

Standards Data Section

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 08/31/09 08/31/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 1154 1403

LAB FILE ID: RF0.02: BCH2129 RF0.05: BCH2128 RF0.1: BCH2130
RF0.25: BCH2132 RF0.5: BCH2134 RF1: BCH2136

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2	
dimethylformamide	1554	4275	9371	27945	62614		LINR	1.416e-002	7.896e-006	0.99625	0.99000	
diethylformamide	27445	52126	126480	354020	682630		LINR	0.16400965	5.847e-006	0.98874	0.99000	<-

FORM VI DMF

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2128.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2128.d
Lab Smp Id: IC 0.05
Inj Date : 31-AUG-2009 11:54
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,IC 0.05
Misc Info : 0.05
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 11:54 Cal File: BCH2128.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.880	1.880	0.000	4275	0.05000	0.0465(M)	
$ 2 diethylformamide	2.493	2.493	0.000	52126	0.50000	0.435	

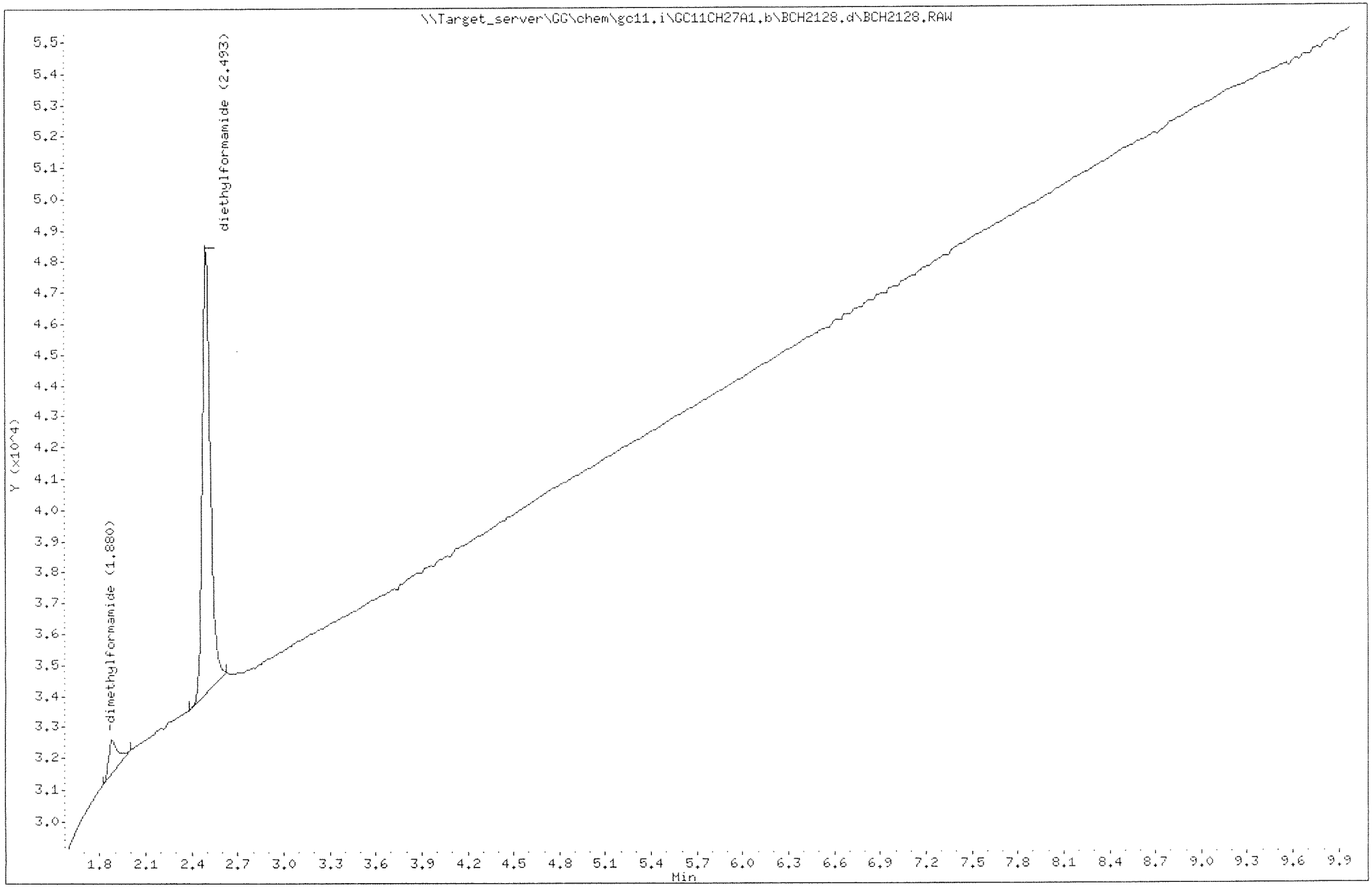
MJ
JP
090909

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2128.d
Date : 31-AUG-2009 11:54
Client ID:
Sample Info: DMFB035A,M,GC11CH27A1,B,1,IC 0.05
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000078

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2129.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2129.d
Lab Smp Id: ICAL 0.02
Inj Date : 31-AUG-2009 12:10
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,ICAL 0.02
Misc Info : 0.02
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 12:10 Cal File: BCH2129.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

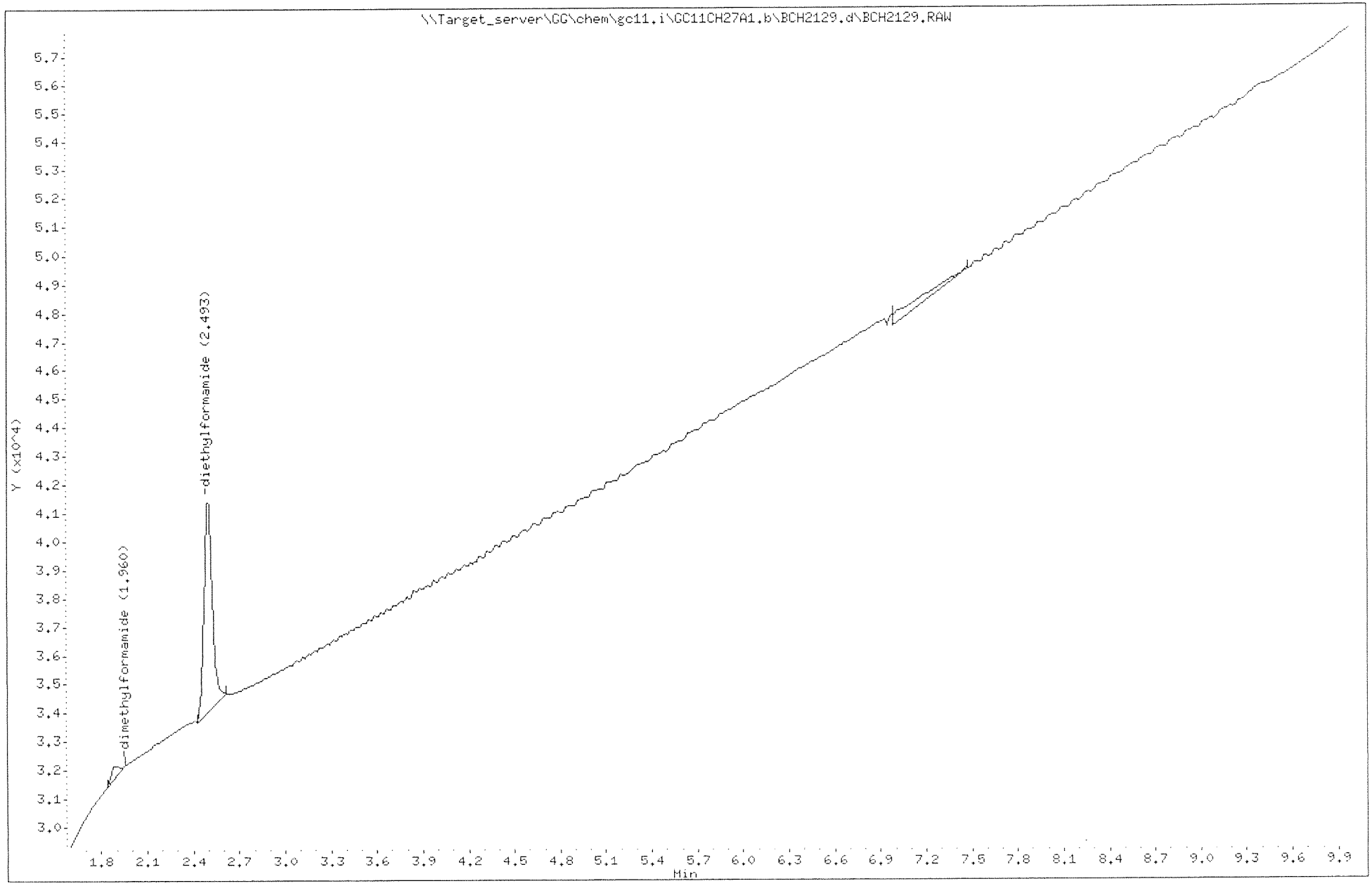
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	27445	0.25000		

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2129.d
Date : 31-AUG-2009 12:10
Client ID:
Sample Info: DMFB035A,M,GC11CH27A1,B,1,ICAL 0.02
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000080

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2130.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2130.d
Lab Smp Id: ICAL 0.1
Inj Date : 31-AUG-2009 12:38
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,ICAL 0.1
Misc Info : 0.1
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 12:38 Cal File: BCH2130.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.880	1.880	0.000	9371	0.10000	0.0938(M)	
$ 2 diethylformamide	2.493	2.493	0.000	126485	1.00000		

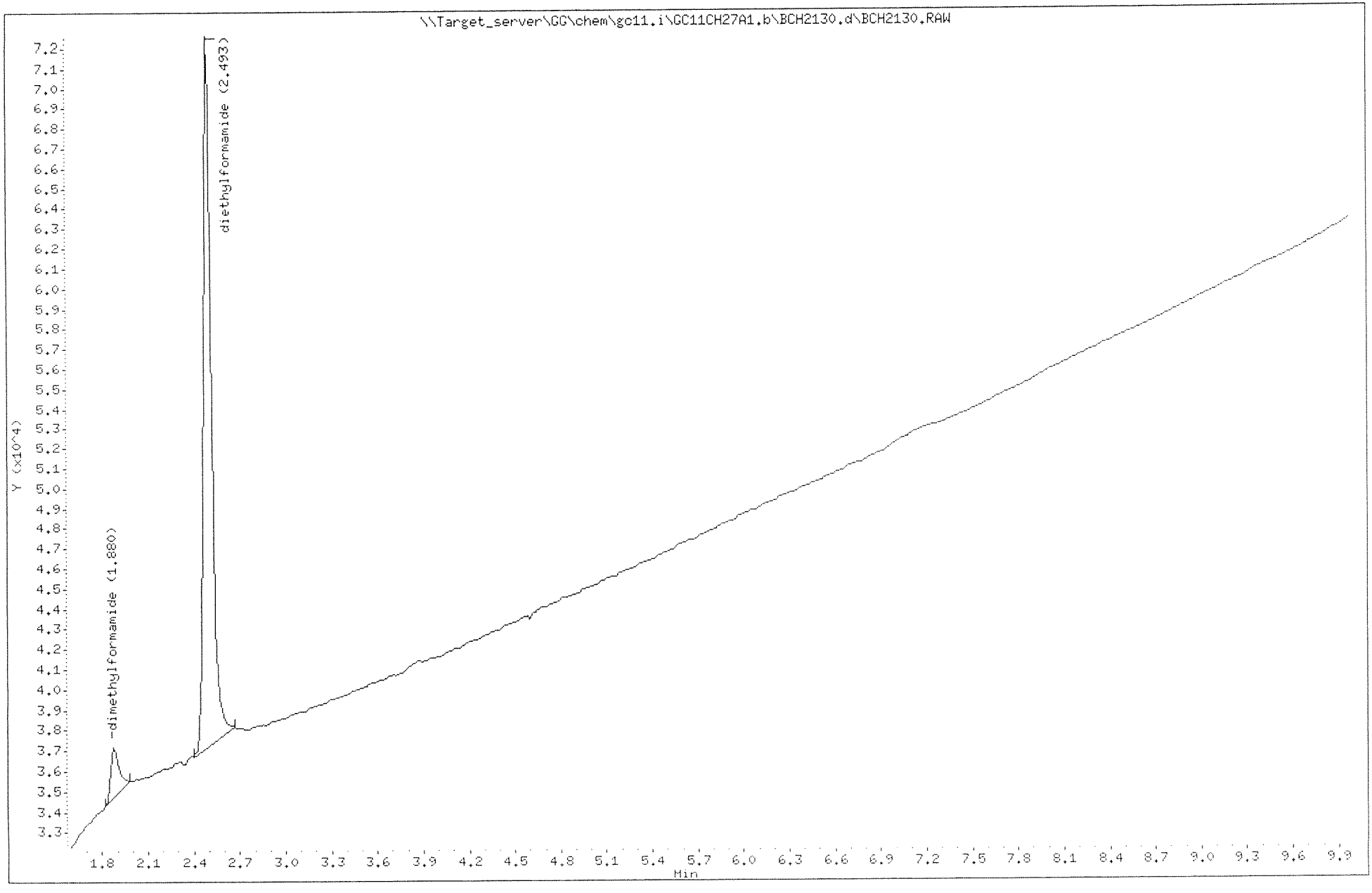
MY
JF
09/09/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2130.d
Date : 31-AUG-2009 12:38
Client ID:
Sample Info: DMFB035A.M,GC11CH27A1.B,1,ICAL 0.1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000082

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2132.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2132.d
Lab Smp Id: ICAL 0.25
Inj Date : 31-AUG-2009 13:06
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,ICAL 0.25
Misc Info : 0.25
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:06 Cal File: BCH2132.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

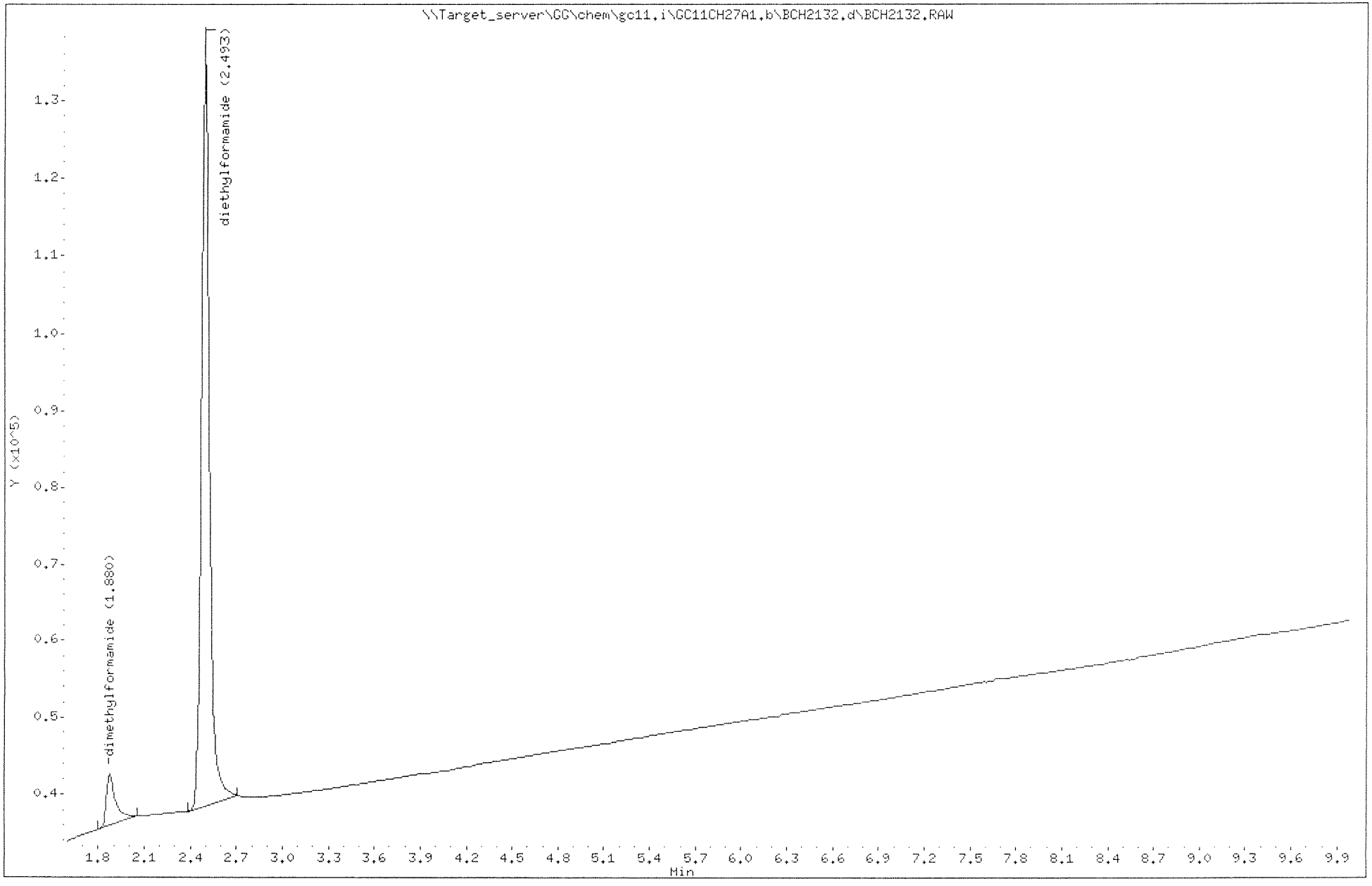
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.880	1.880	0.000	27945	0.25000	0.217(M)	
$ 2 diethylformamide	2.493	2.493	0.000	354024	2.50000	2.23	

MY
JG
090909

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2132.d
Date : 31-AUG-2009 13:06
Client ID:
Instrument: gc11.i
Sample Info: DMFB035A,M,GC11CH27A1.B,1,ICAL 0.25
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000084

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2134.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2134.d
Lab Smp Id: ICAL 0.5
Inj Date : 31-AUG-2009 13:35
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,ICAL 0.5
Misc Info : 0.5
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:35 Cal File: BCH2134.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

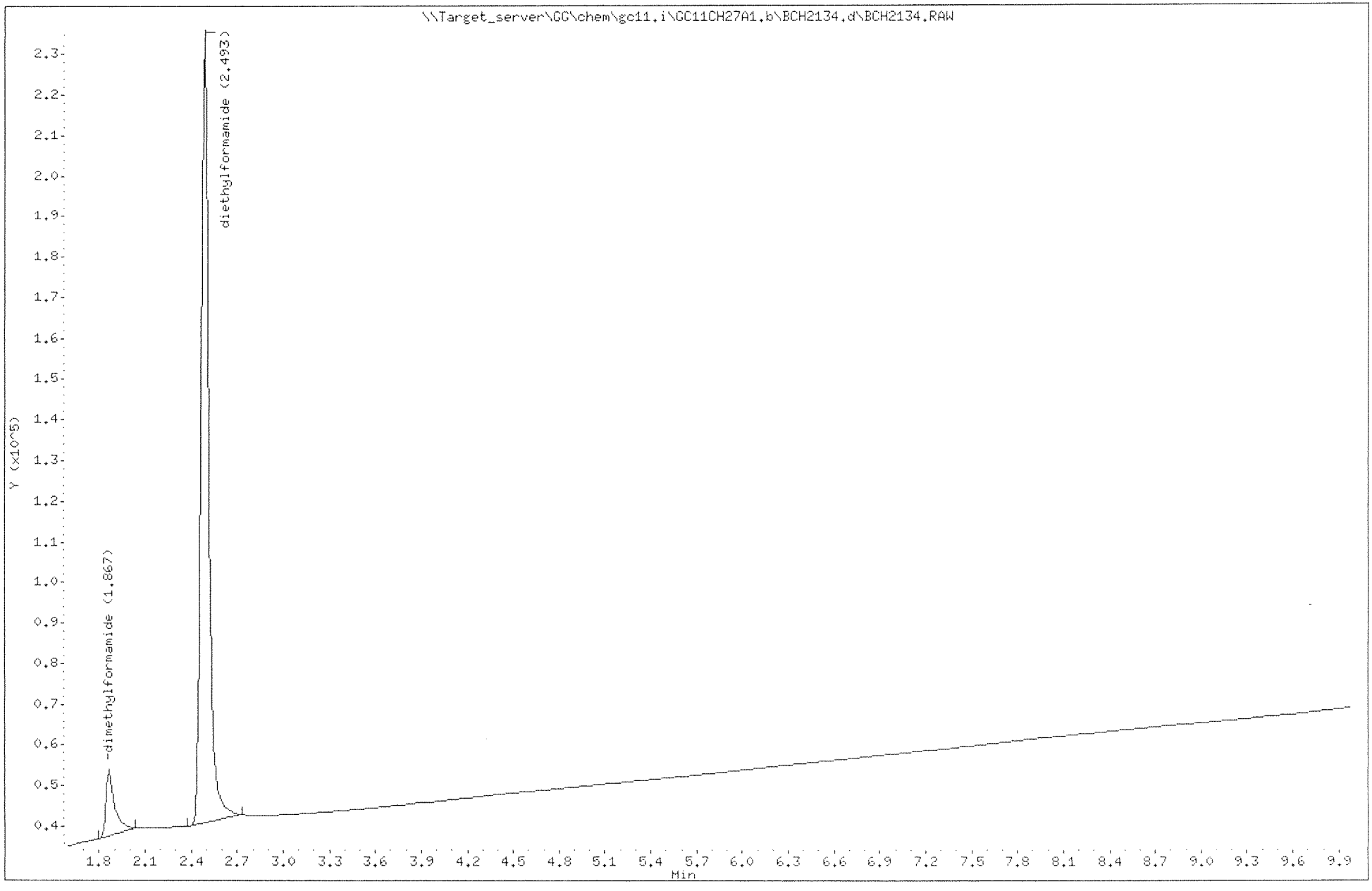
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.880	-0.014	62614	0.50000	0.448(M)	
$ 2 diethylformamide	2.493	2.493	0.000	682630	4.00000	4.16(A)	

MY
NP 090909

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2134.d
Date : 31-AUG-2009 13:35
Client ID:
Instrument: gc11.i
Sample Info: DMFB035A.M,GC11CH27A1.B,1,ICAL 0.5
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000086

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 09/01/09 09/01/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 1403 1610

LAB FILE ID: RF0.02: BCI2013 RF0.05: BCI2014 RF0.1: BCI2015
RF0.25: BCI2017 RF0.5: BCI2019 RF1: BCI2022

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	878	2510	5981	15898	37586	86362	LINR	2.877e-002	1.152e-005	0.99409	0.99000
diethylformamide	22545	49061	102590	286120	506660		LINR	0.10561196	7.876e-006	0.99600	0.99000

FORM VI DMF

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2013.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2013.d
Lab Smp Id: ICAL 0.02
Inj Date : 01-SEP-2009 14:03
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 0.02
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI01A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 14:03 Cal File: BCI2013.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.920	1.867	0.053	878	0.02000	0.0195(aM)	M4
$ 2 diethylformamide	2.493	2.493	0.000	22545	0.25000	0.250	

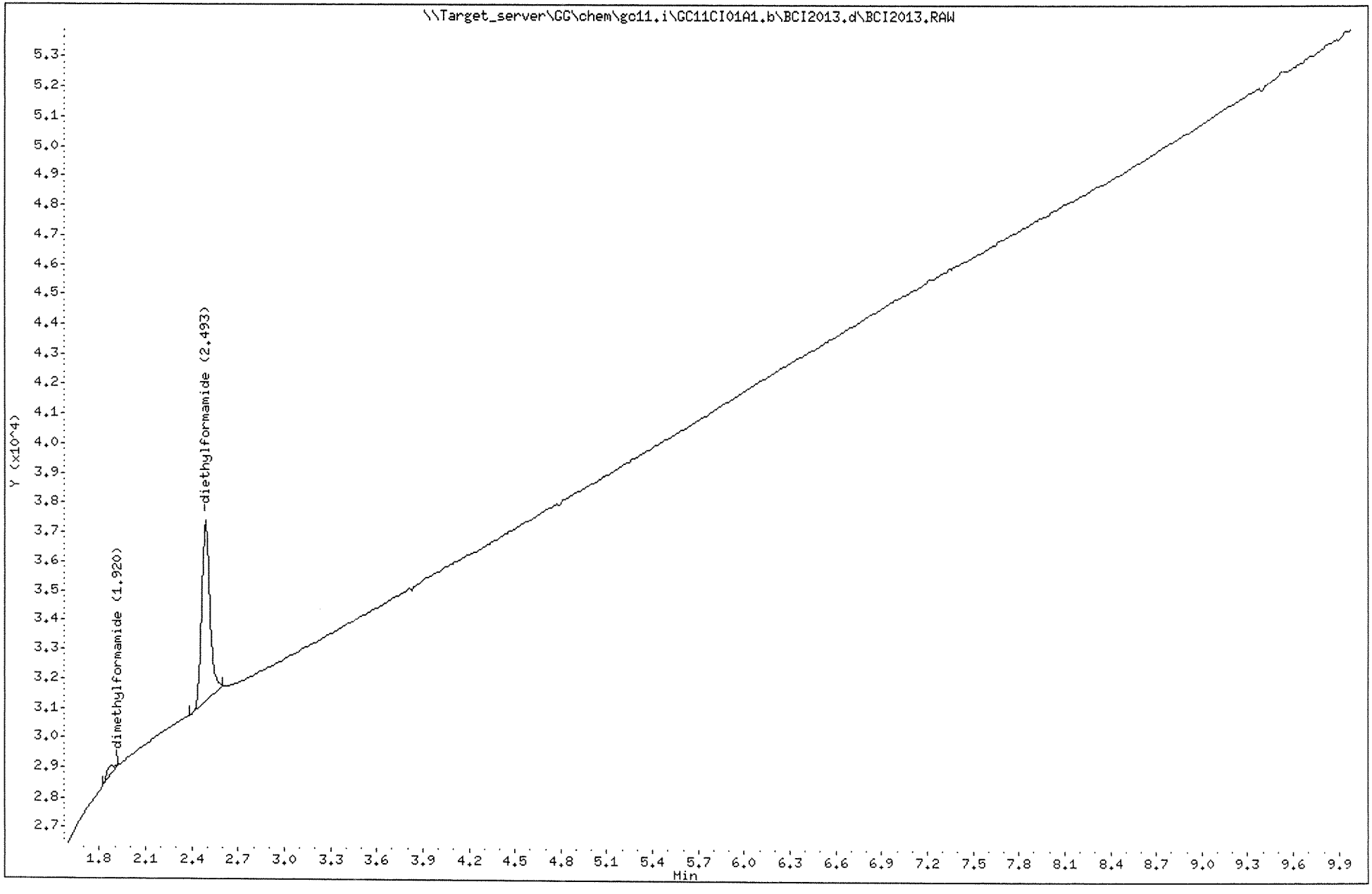
JLP 090909

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI01A1.b\BCI2013.d
Date : 01-SEP-2009 14:03
Client ID:
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 0.02
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000089

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2014.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2014.d
Lab Smp Id: ICAL 0.05
Inj Date : 01-SEP-2009 14:17
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 0.05
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI01A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 14:17 Cal File: BCI2014.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

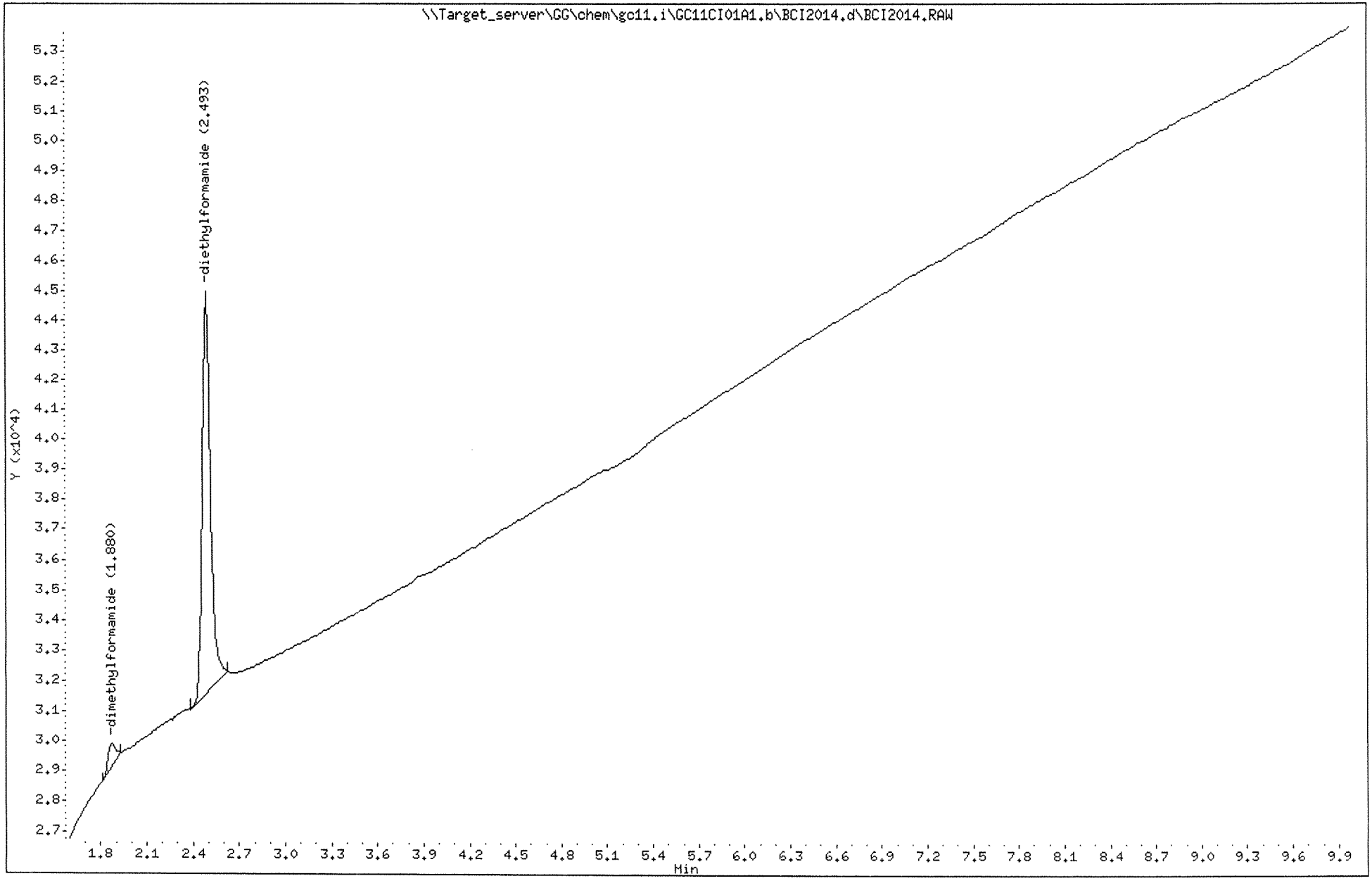
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.880	1.867	0.013	2510	0.05000	0.0230(M)	M4
$ 2 diethylformamide	2.493	2.493	0.000	49061	0.50000	0.479	

JP 090909

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2014.d
Date : 01-SEP-2009 14:17
Client ID:
Instrument: gc11.i
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 0.05
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000091

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2015.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2015.d
Lab Smp Id: ICAL 0.1
Inj Date : 01-SEP-2009 14:31
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 0.1
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI01A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 14:31 Cal File: BCI2015.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

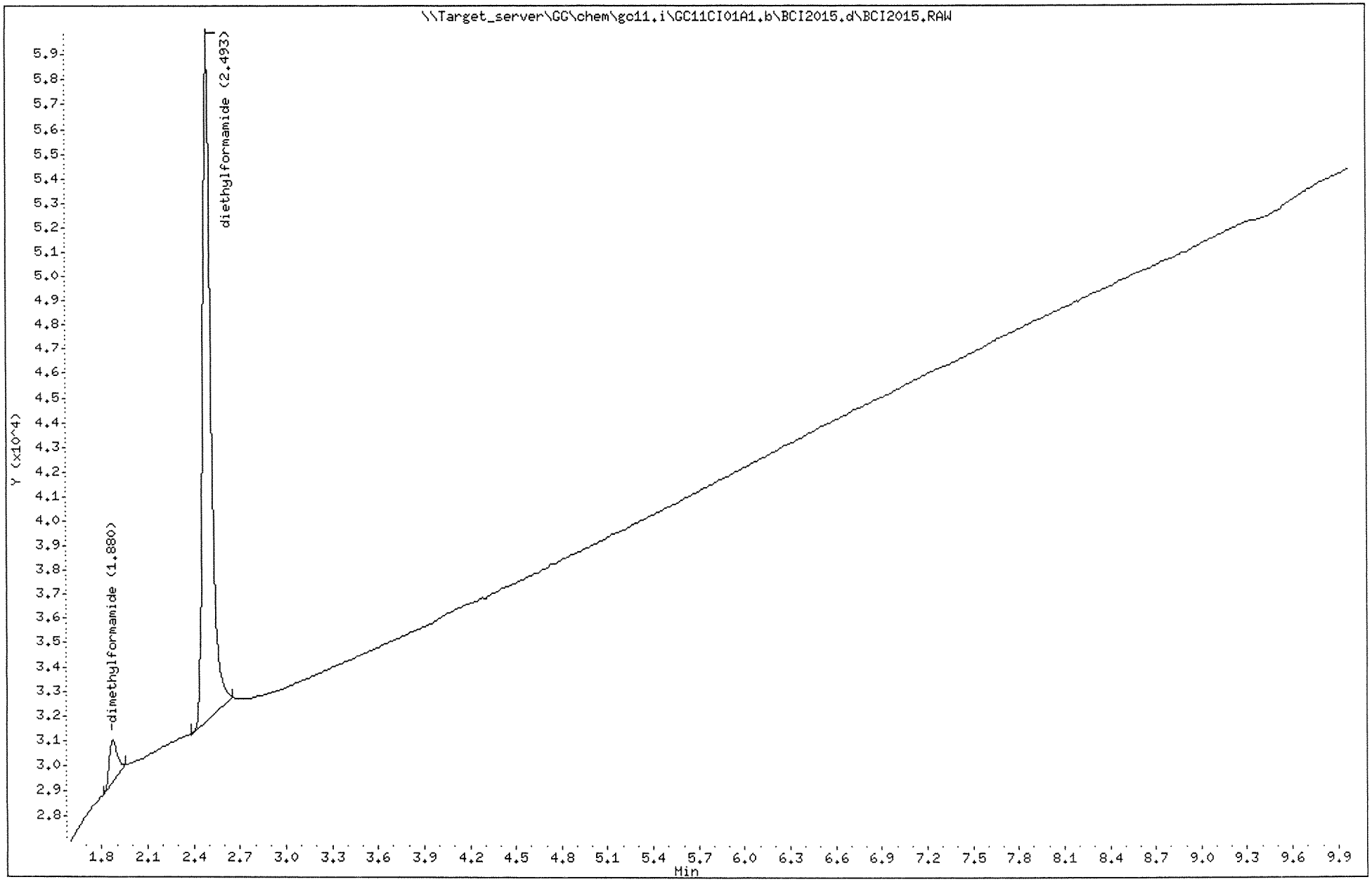
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.880	1.867	0.013	5981	0.10000	0.0573(M)	M4
$ 2 diethylformamide	2.493	2.493	0.000	102590	1.00000	0.941	

JLP 090909

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI01A1.b\BCI2015.d
Date : 01-SEP-2009 14:31
Client ID:
Instrument: gc11.i
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 0.1
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000093

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2017.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2017.d
Lab Smp Id: ICAL 0.25
Inj Date : 01-SEP-2009 14:59
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 0.25
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 14:59 Cal File: BCI2017.RAW
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.867	-0.001	15898	0.25000	0.251(M)	M4
$ 2 diethylformamide	2.493	2.493	0.000	286125	2.50000	2.52	

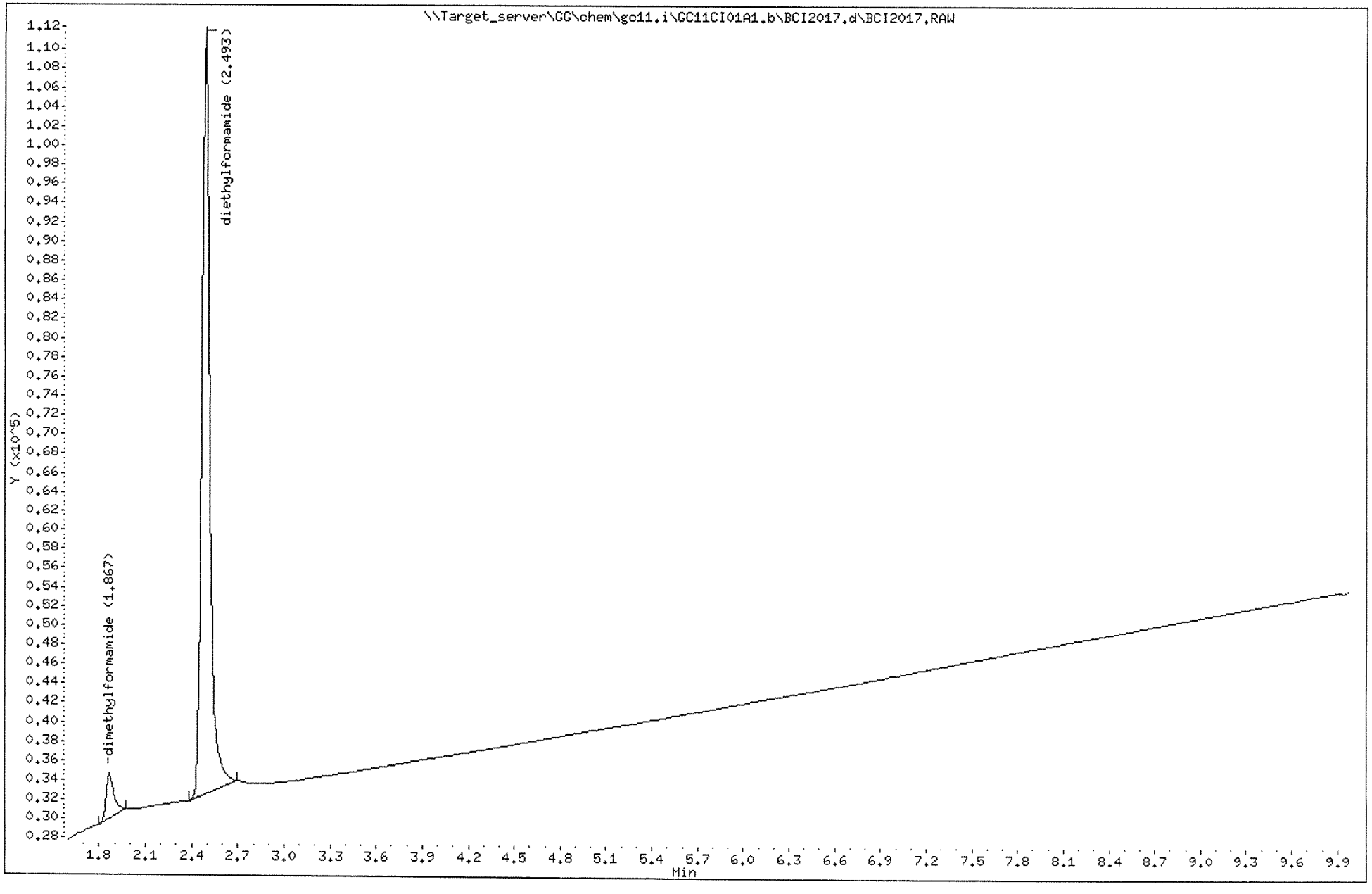
JLP 090909

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI01A1.b\BCI2017.d
Date : 01-SEP-2009 14:59
Client ID:
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000095

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2019.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2019.d
Lab Smp Id: ICAL 0.5
Inj Date : 01-SEP-2009 15:27
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 0.5
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI01A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 15:27 Cal File: BCI2019.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.853	1.867	-0.014	37586	0.50000	0.512(M)	M4
$ 2 diethylformamide	2.480	2.493	-0.013	506659	4.00000	4.10(A)	

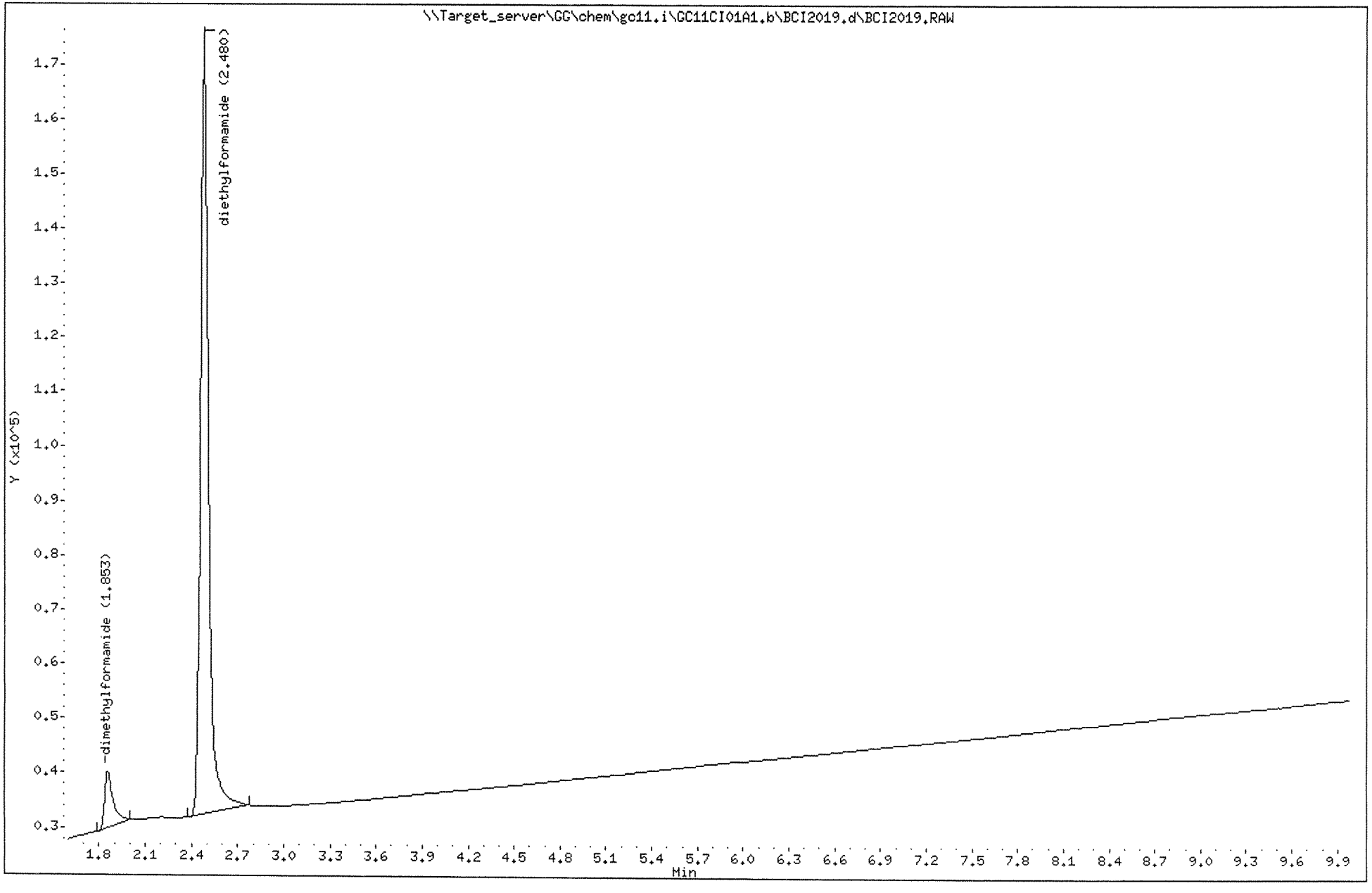
JLP 090909

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI01A1.b\BCI2019.d
Date : 01-SEP-2009 15:27
Client ID:
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 0.5
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000097

Data File: \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2022.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI01A1.b\BCI2022.d
Lab Smp Id: ICAL 1.0
Inj Date : 01-SEP-2009 16:10
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI01A1.B,1,ICAL 1.0
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI01A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 07:59 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.867	-0.001	86362	1.00000	1.16(AM)	M4

JLP 090909

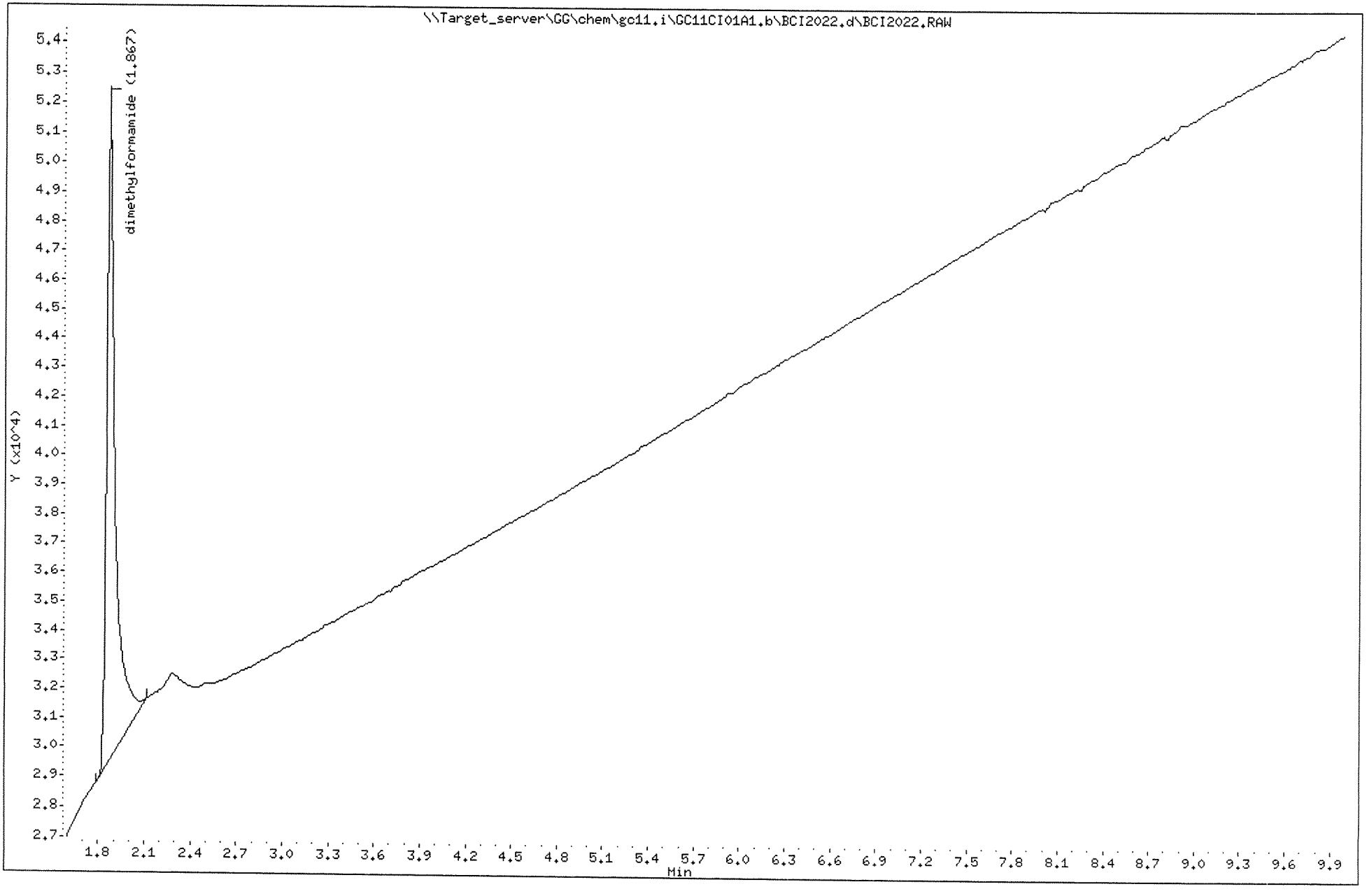
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI01A1.b\BCI2022.d
Date : 01-SEP-2009 16:10
Client ID:
Sample Info: DMFB036A.M,GC11CI01A1.B,1,ICAL 1.0
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000099

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date(s): 09/15/09 09/15/09

Column: ZB-WAX ID: 0.53 (mm) Calibration Time(s): 0936 1143

LAB FILE ID: RF0.02: BCI4073 RF0.05: BCI4074 RF0.1: BCI4075
RF0.25: BCI4077 RF0.5: BCI4079 RF1: BCI4082

COMPOUND	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
dimethylformamide	921	1500	3764	12201	24415	55088	LINR	2.106e-002	1.811e-005	0.99669	0.99000
diethylformamide	13241	25644	58420	154630	276360		LINR	9.989e-002	1.448e-005	0.99576	0.99000

FORM VI DMF

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Lab Smp Id: ICAL 0.02
Inj Date : 15-SEP-2009 09:36
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.02
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:36 Cal File: BCI4073.RAW
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	921	0.02000	0.0377(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	13241	0.25000	0.292(M)	

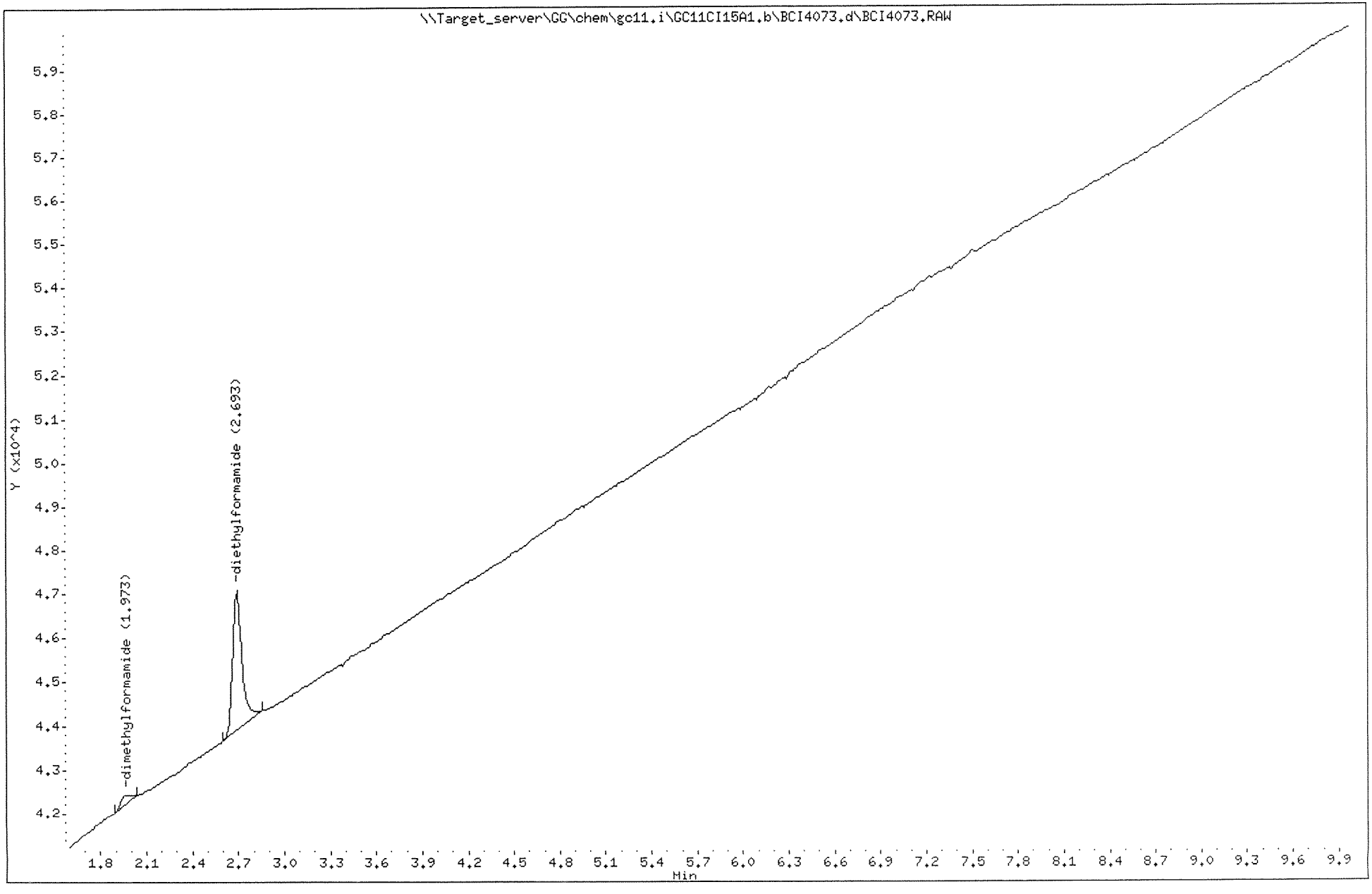
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4073.d
Date : 15-SEP-2009 09:36
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.02
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000102

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Lab Smp Id: ICAL 0.05
Inj Date : 15-SEP-2009 09:50
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.05
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	1500	0.05000	0.0482(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	25644	0.50000	0.471(M)	

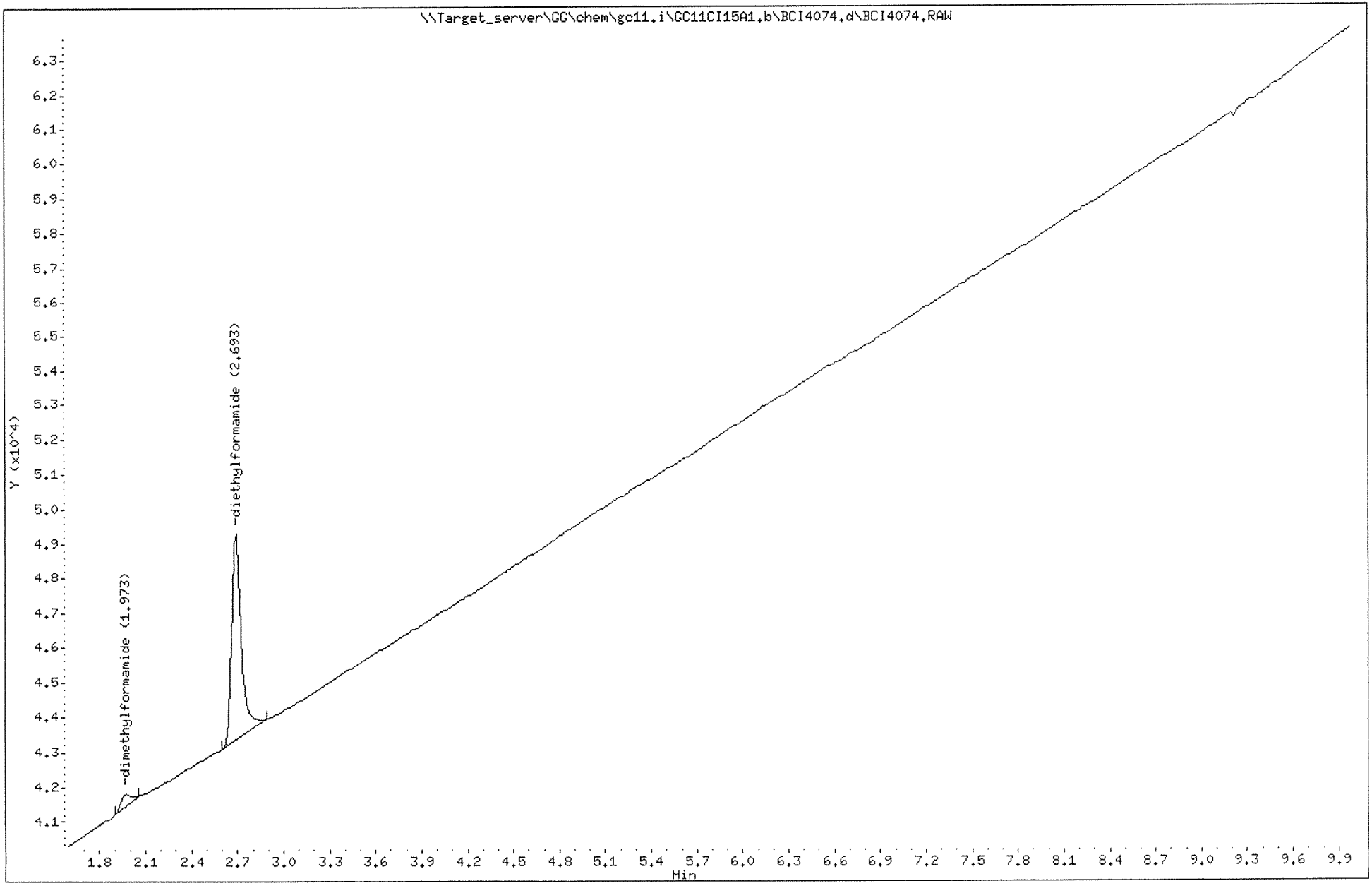
JLP 09/16/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4074.d
Date : 15-SEP-2009 09:50
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.05
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000104

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Lab Smp Id: ICAL 0.1
Inj Date : 15-SEP-2009 10:04
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.1
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 10:04 Cal File: BCI4075.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

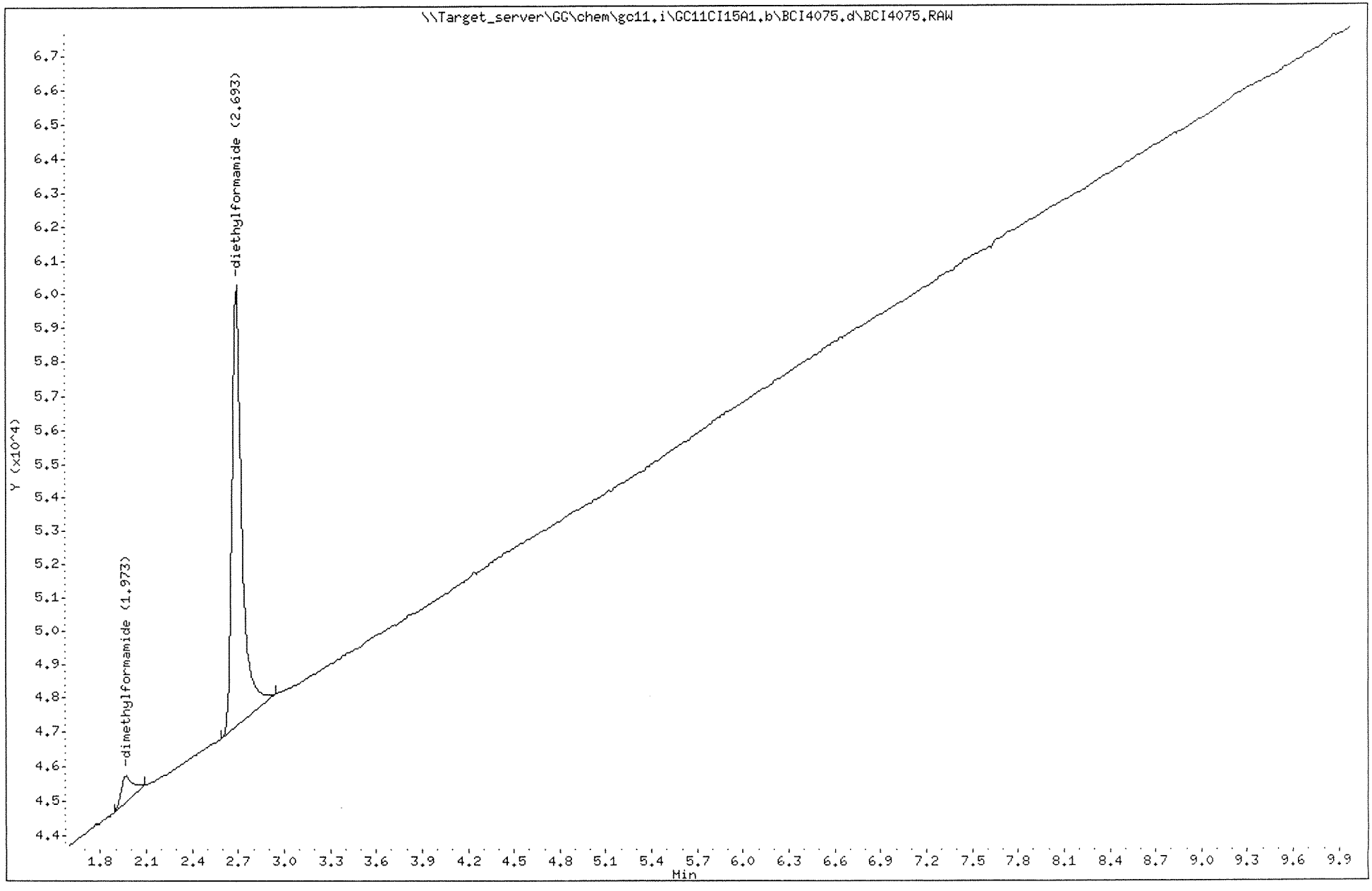
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.973	1.960	0.013	3764	0.10000	0.102(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	58420	1.00000	1.02(M)	JLP 09/16/09

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4075.d
Date : 15-SEP-2009 10:04
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000106

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Lab Smp Id: ICAL 0.25
Inj Date : 15-SEP-2009 10:32
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.25
Misc Info :
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 10:32 Cal File: BCI4077.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

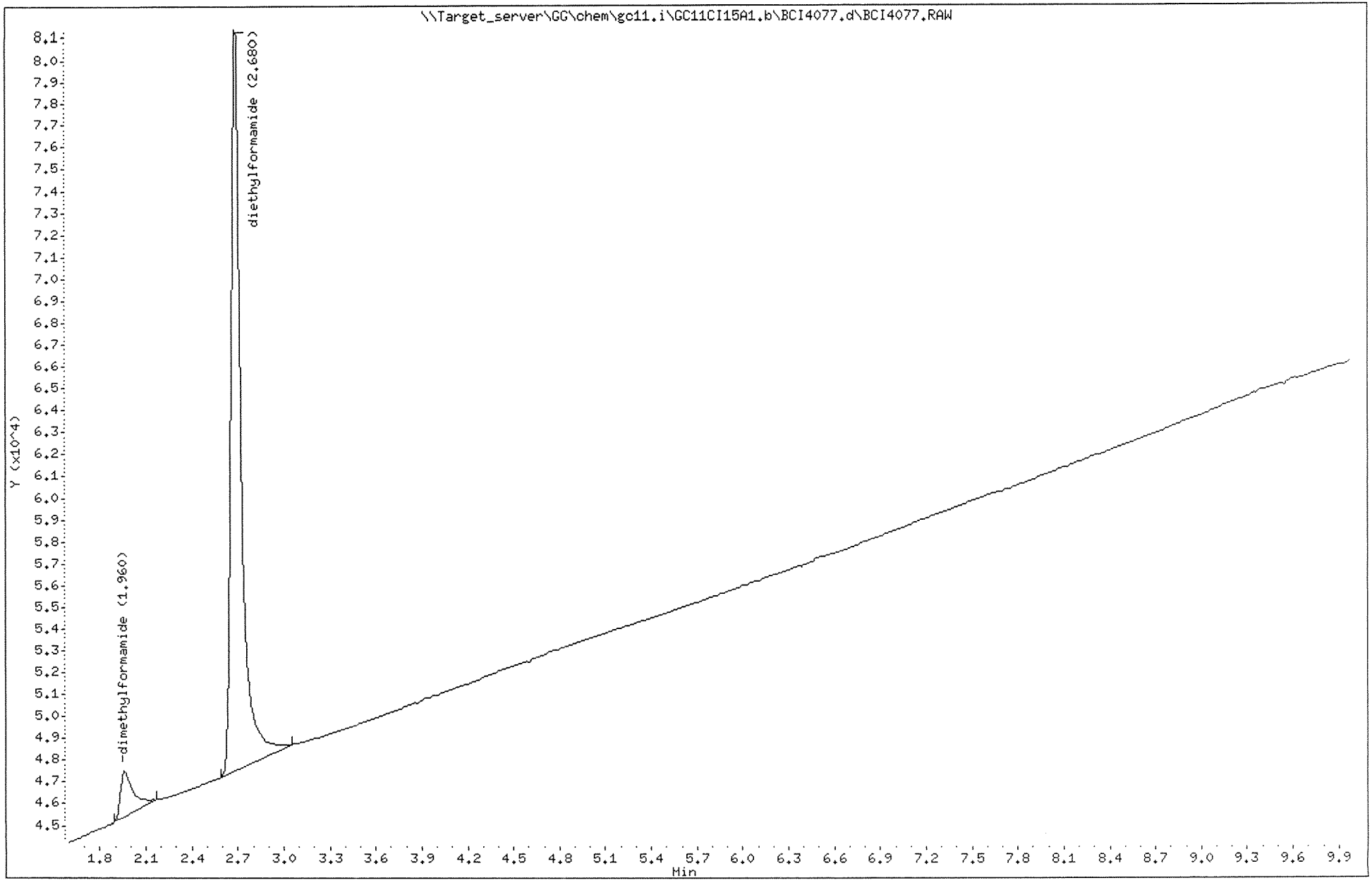
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12201	0.25000	0.255(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	154631	2.50000	2.34(M)	JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4077.d
Date : 15-SEP-2009 10:32
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000108

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4079.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4079.d
Lab Smp Id: ICAL 0.5
Inj Date : 15-SEP-2009 11:01
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 0.5
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:01 Cal File: BCI4079.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	24415	0.50000	0.500(M)	M5
$ 2 diethylformamide	2.693	2.680	0.013	276361	4.00000	4.10(AM)	

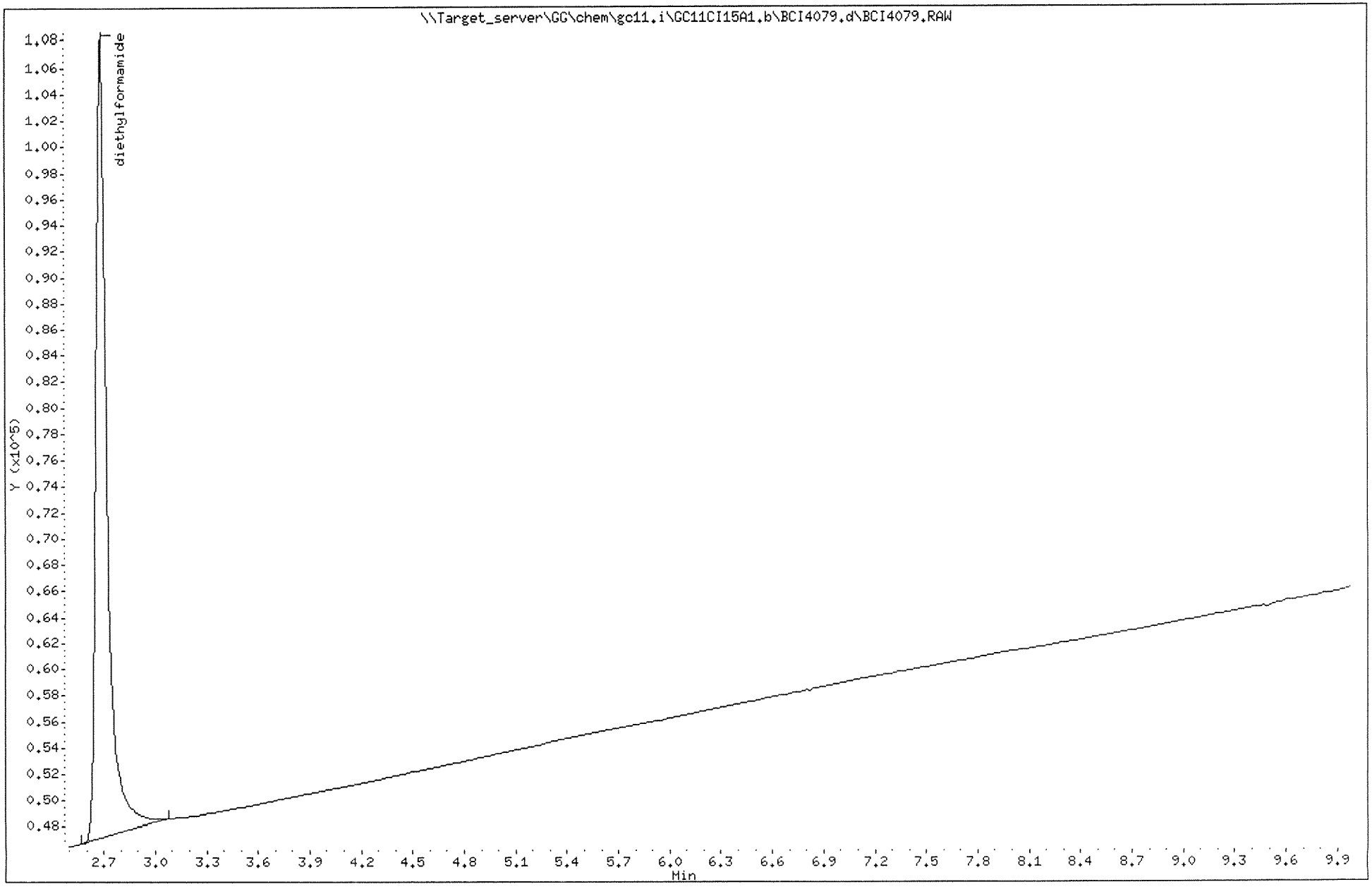
JLP 091609

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4079.d
Date : 15-SEP-2009 11:01
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 0.5
Purge Volume: 0.0
Column phase: ZB-1

Instrument: gc11.i
Operator: JLP
Column diameter: 0.25



Katahdin Analytical Services 1000110

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Lab Smp Id: ICAL 1.0
Inj Date : 15-SEP-2009 11:43
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,ICAL 1.0
Misc Info :
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

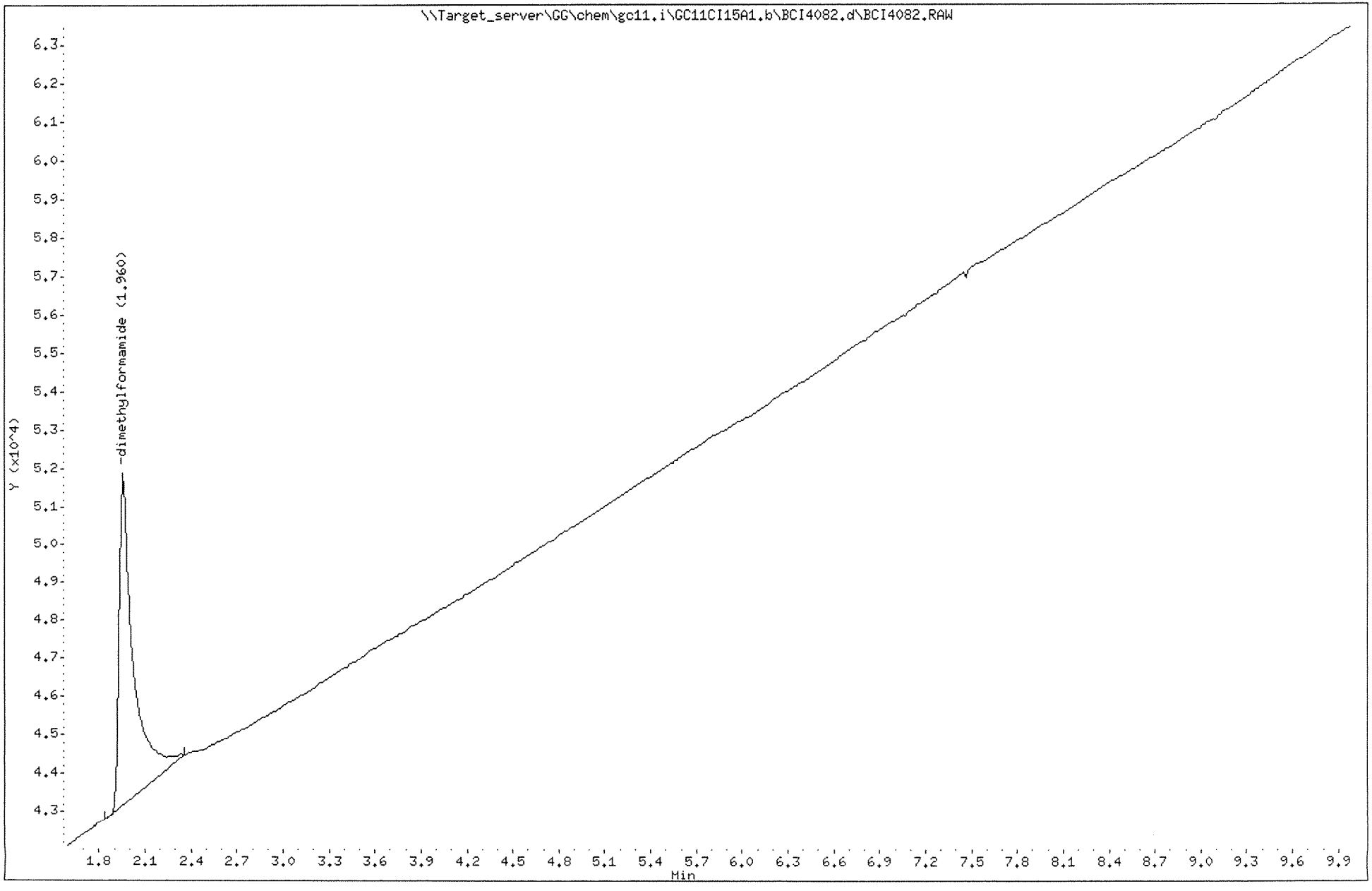
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	55088	1.00000	1.02(AM)	M5

JLP 091609

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4082.d
Date : 15-SEP-2009 11:43
Client ID:
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,ICAL 1.0
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000112

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 08/31/09 Time: 2024

Lab File ID: BCH2157 Init. Calib. Date(s): 08/31/09 08/31/09

Init. Calib. Times: 1154 1403

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.5000 or AMOUNT	CCAL RRF0.5000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
dimethylformamide	0.6431300	0.5000000	159320.00	0.01	28.63	25.00	LINR	<-
diethylformamide	5.1653000	4.0000000	213840.00	0.01	29.13	25.00	LINR	<-

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2157.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2157.d
Lab Smp Id: CV 0.5
Inj Date : 31-AUG-2009 20:24
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,CV 0.5
Misc Info : CV
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\dmfB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:06 Cal File: BCH2132.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

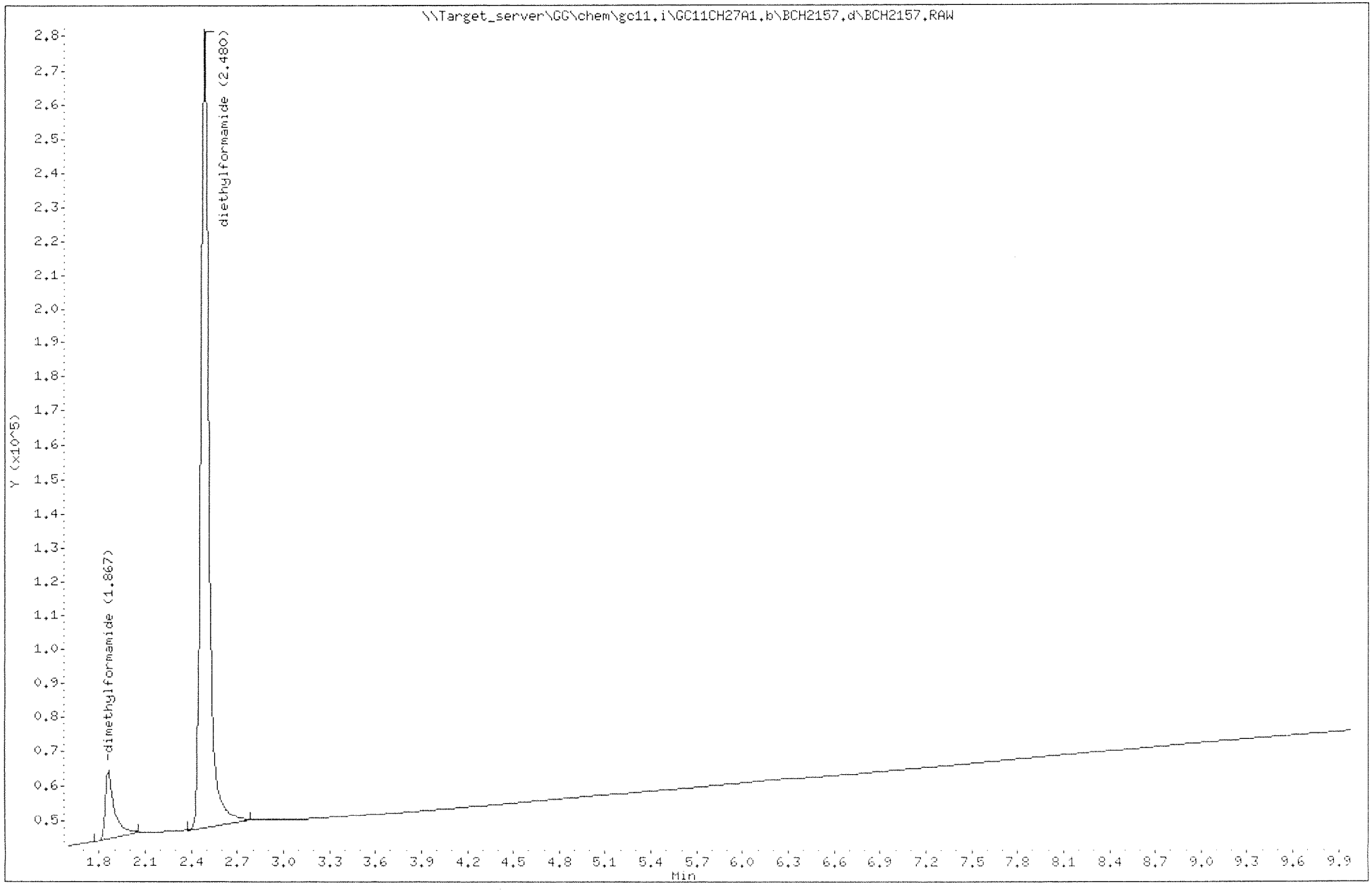
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.880	-0.014	79660	0.10000	0.643	
$ 2 diethylformamide	2.480	2.493	-0.013	855379	1.00000	5.16(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2157.d
Date : 31-AUG-2009 20:24
Client ID:
Instrument: gc11.i
Sample Info: DMFB035A.M,GC11CH27A1.B,1,CV 0.5
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000115

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/02/09 Time: 1533

Lab File ID: BCI2115 Init. Calib. Date(s): 09/01/09 09/01/09

Init. Calib. Times: 1403 1610

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2513000	0.2500000	77284.000	0.01	0.52	25.00	LINR
diethylformamide	2.5291000	2.5000000	123080.00	0.01	1.16	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2115.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2115.d
Lab Smp Id: CV 0.25
Inj Date : 02-SEP-2009 15:33
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI02A1.B\DMFB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

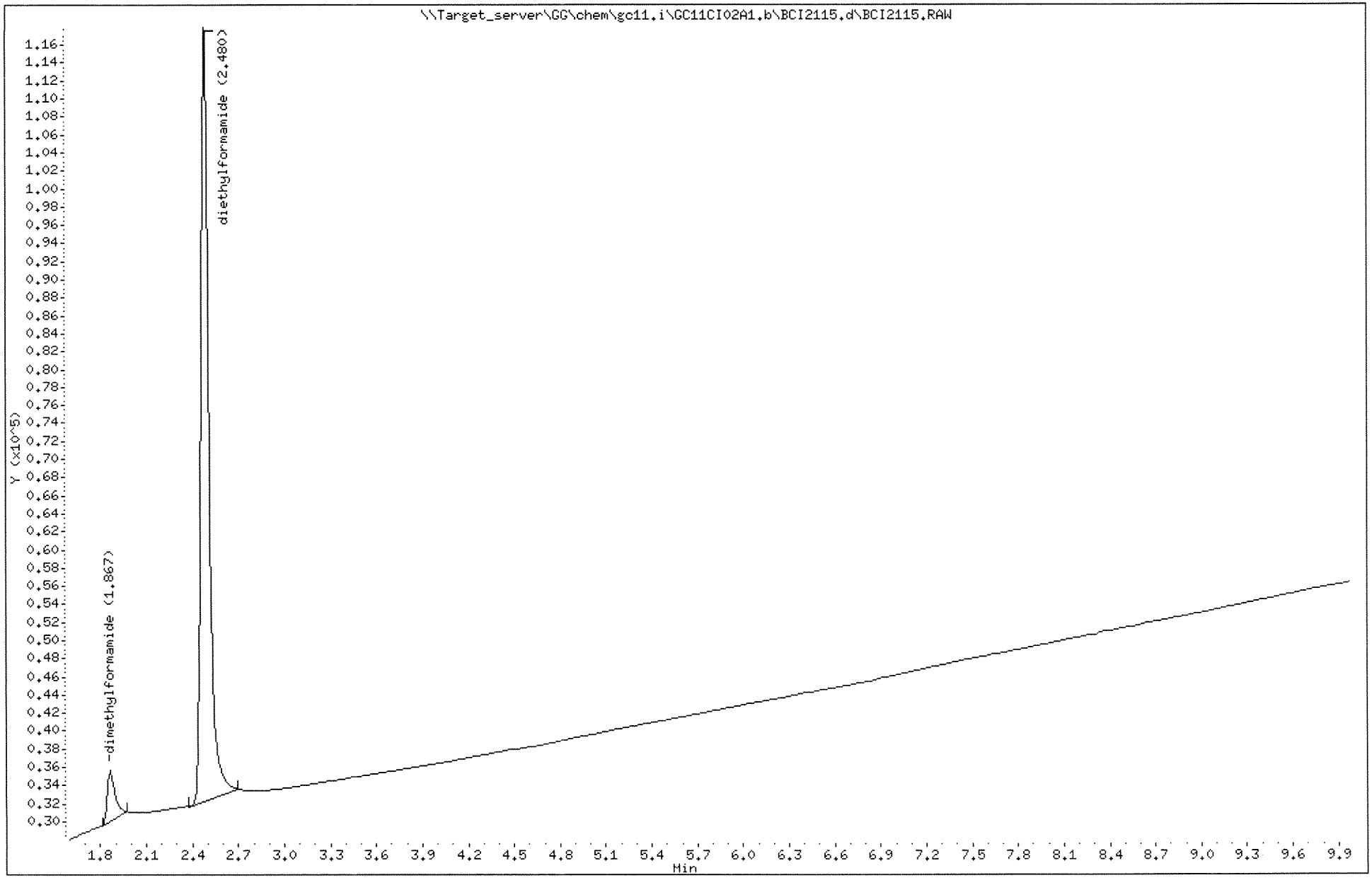
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.867	-0.001	19321	0.25000	0.251(M)	
$ 2 diethylformamide	2.480	2.493	-0.013	307694	2.50000	2.53	

MS
JY 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2115.d
Date : 02-SEP-2009 15:33
Client ID:
Instrument: gc11.i
Sample Info: DMFB036A,M,GC11CI02A1,B,1,CV 0.25
Purge Volume: 0.0
Operator: KT
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000118

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/03/09 Time: 0912

Lab File ID: BCI2145 Init. Calib. Date(s): 09/01/09 09/01/09

Init. Calib. Times: 1403 1610

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2298600	0.2500000	69836.000	0.01	-8.06	25.00	LINR
diethylformamide	2.3507000	2.5000000	114020.00	0.01	-5.97	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI03A1.b\BCI2145.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI03A1.b\BCI2145.d
Lab Smp Id: CV 0.25
Inj Date : 03-SEP-2009 09:12
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI03A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI03A1.B\DMFB036A.m
Meth Date : 03-Sep-2009 09:15 jprescott Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.866	1.867	-0.001	17459	0.25000	0.230(M)	M4
$ 2 diethylformamide	2.480	2.493	-0.013	285040	2.50000	2.35	

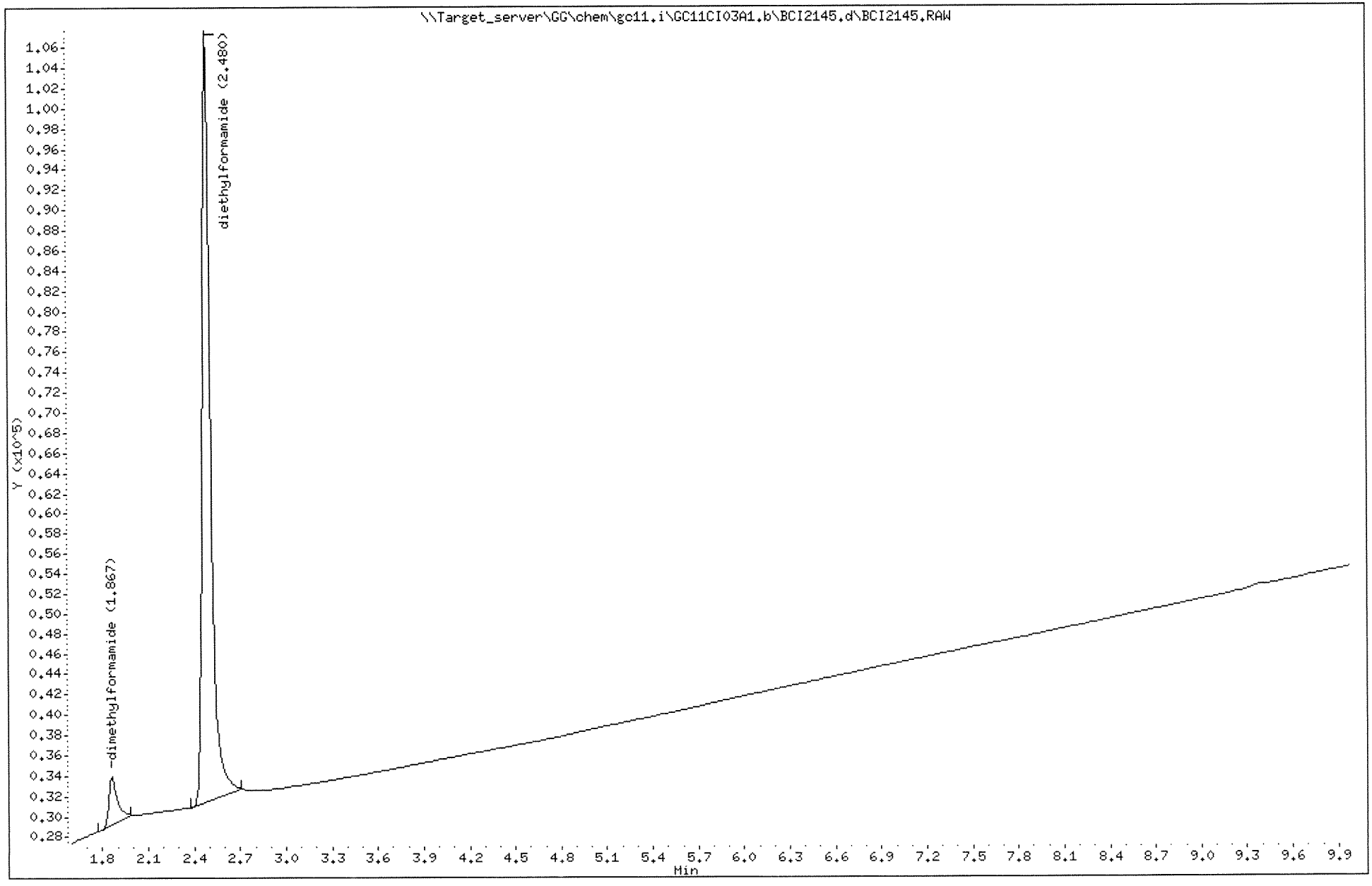
JP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI03A1.b\BCI2145.d
Date : 03-SEP-2009 09:12
Client ID:
Sample Info: DMFB036A.M,GC11CI03A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000121

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1435

Lab File ID: BCI4094 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2084400	0.2500000	41392.000	0.01	-16.62	25.00	LINR
diethylformamide	2.4826000	2.5000000	65813.000	0.01	-0.70	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Lab Smp Id: CV 0.25
Inj Date : 15-SEP-2009 14:35
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	10348	0.25000	0.208(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	164533	2.50000	2.48(M)	

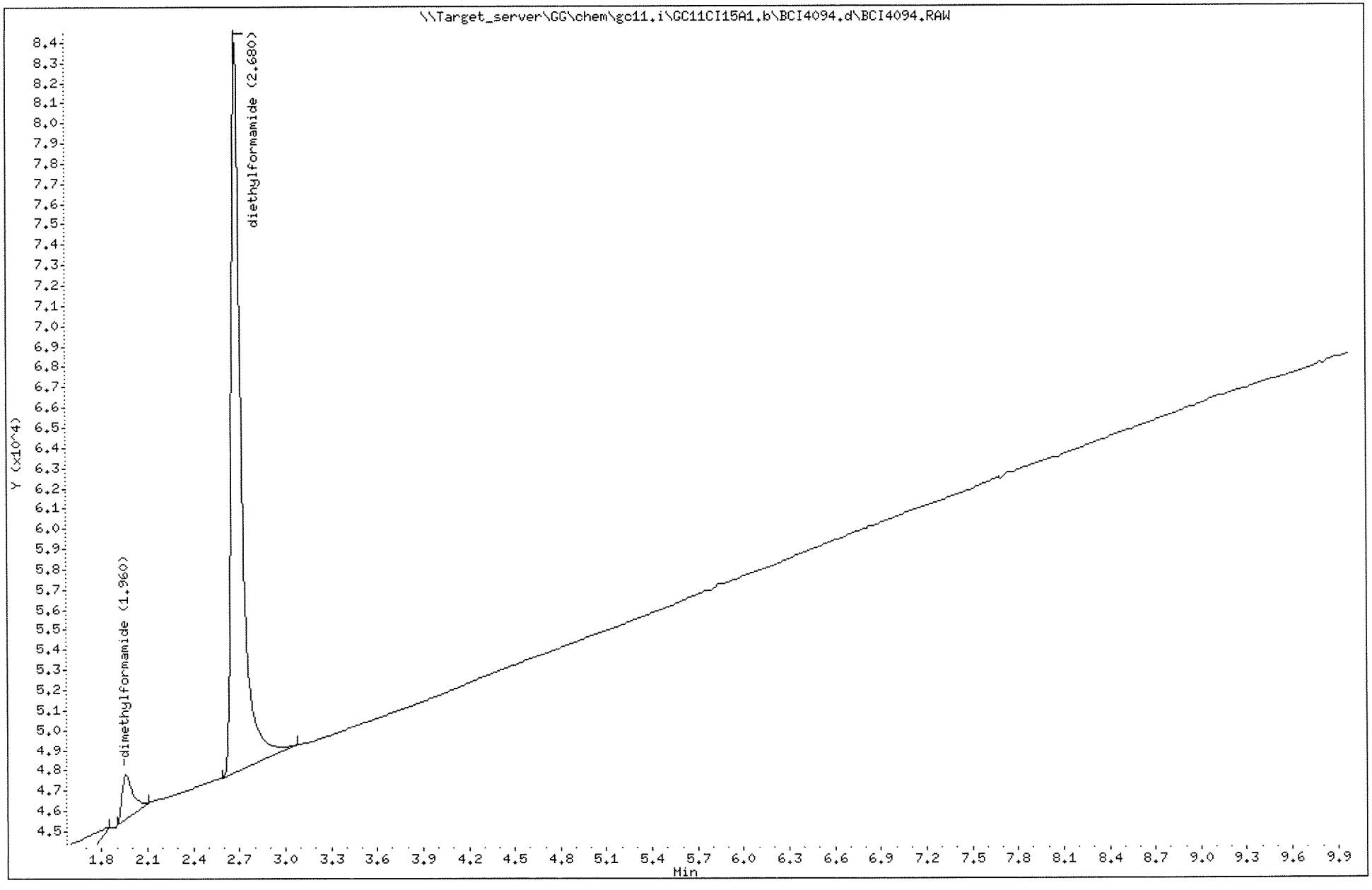
JP 091605

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI15A1.b\BCI4094.d
Date : 15-SEP-2009 14:35
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000124

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 1729

Lab File ID: BCI4106 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2218400	0.2500000	44352.000	0.01	-11.26	25.00	LINR
diethylformamide	2.4726000	2.5000000	65536.000	0.01	-1.10	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4106.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4106.d
Lab Smp Id: CV 0.25
Inj Date : 15-SEP-2009 17:29
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	11088	0.25000	0.222(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	163840	2.50000	2.47(M)	

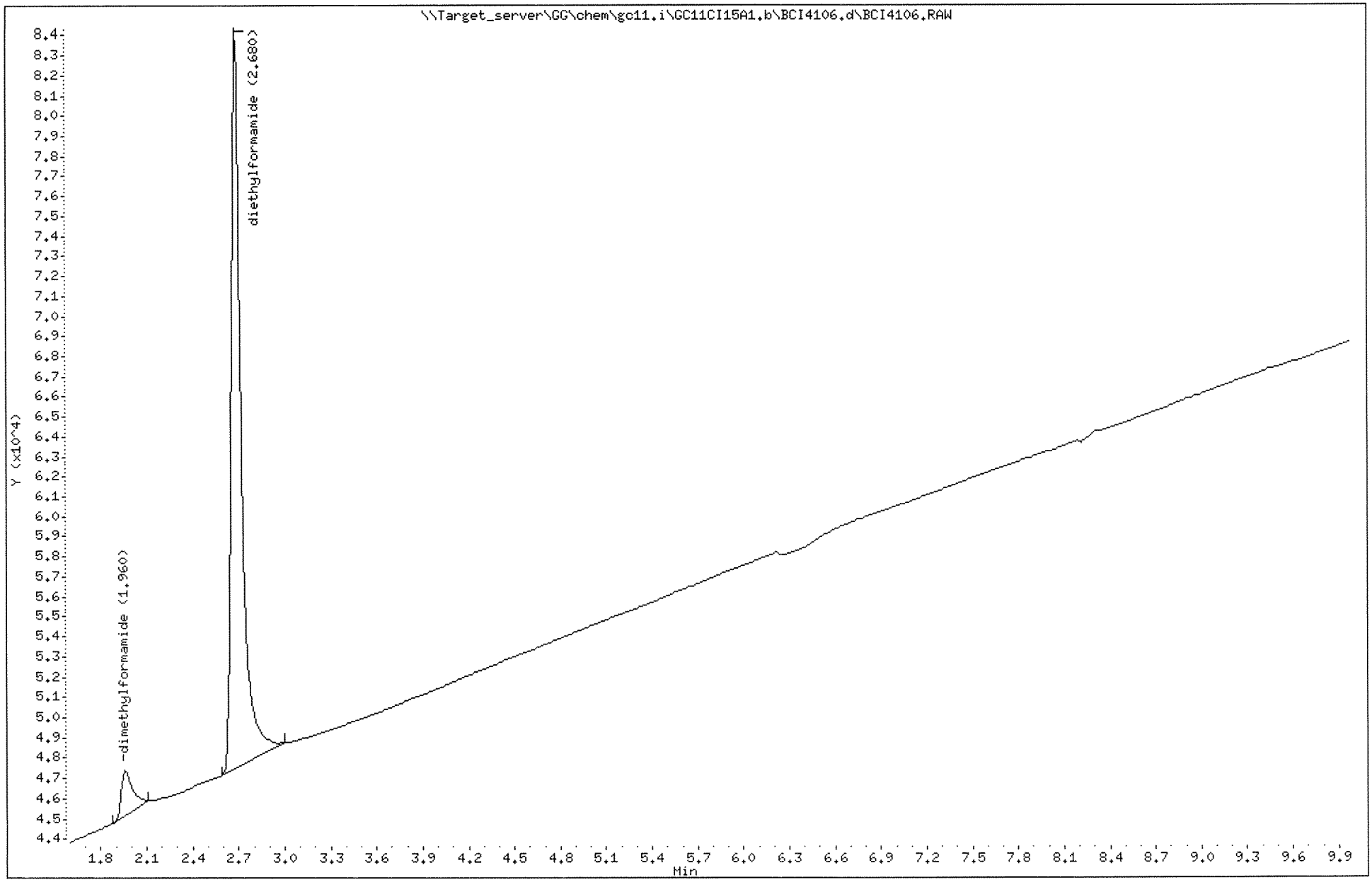
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4106.d
Date : 15-SEP-2009 17:29
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000127

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/15/09 Time: 2131

Lab File ID: BCI4123 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2403800	0.2500000	48448.000	0.01	-3.85	25.00	LINR
diethylformamide	2.4312000	2.5000000	64393.000	0.01	-2.75	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Lab Smp Id: CV 0.25
Inj Date : 15-SEP-2009 21:31
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI15A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	12112	0.25000	0.240(M)	
$ 2 diethylformamide	2.680	2.680	0.000	160983	2.50000	2.43(M)	M5

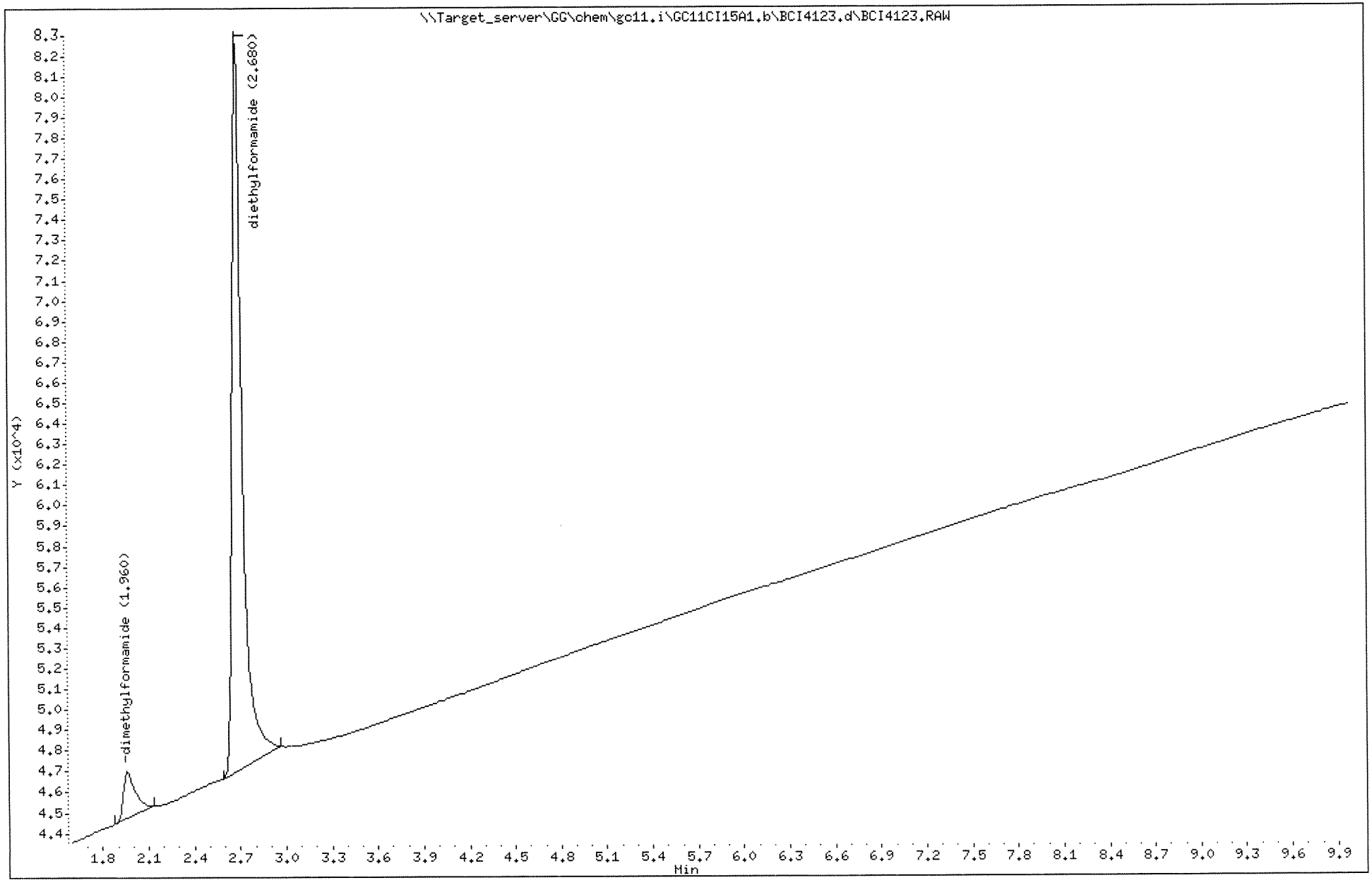
JP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4123.d
Date : 15-SEP-2009 21:31
Client ID:
Sample Info: DMFB038A.M,GC11CI15A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000130

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 0847

Lab File ID: BCI4151 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.2700800	0.2500000	55008.000	0.01	8.03	25.00	LINR
diethylformamide	2.8650000	2.5000000	76374.000	0.01	14.60	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4151.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4151.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 08:47
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.946	1.960	-0.014	13752	0.25000	0.270(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	190936	2.50000	2.86(M)	

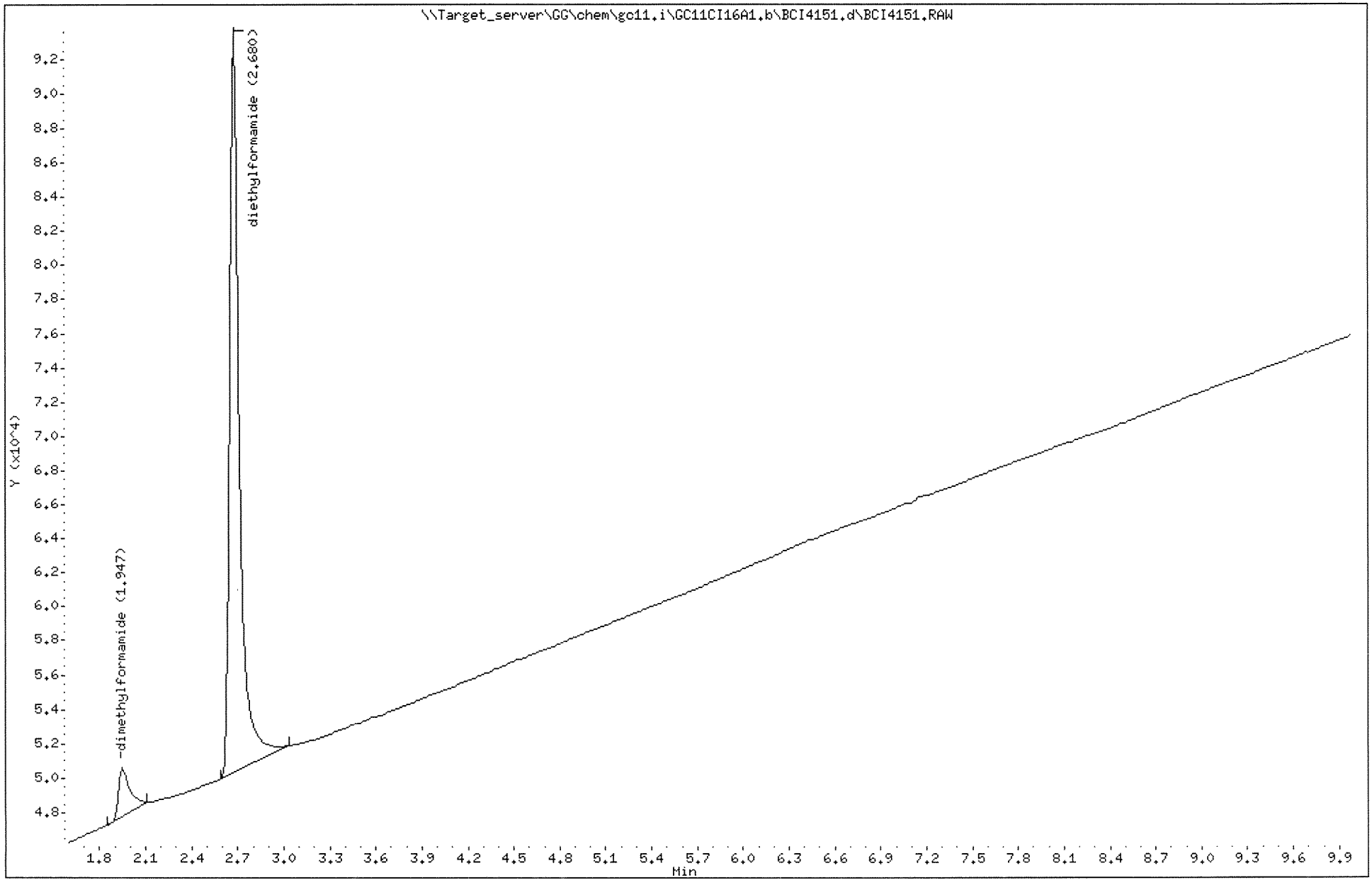
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4151.d
Date : 16-SEP-2009 08:47
Client ID:
Sample Info: DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000133

FORM 7B
VOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: WILMINGTON SDG No.: WIL-3

Instrument ID: GC11 Calibration Date: 09/16/09 Time: 1109

Lab File ID: BCI4161 Init. Calib. Date(s): 09/15/09 09/15/09

Init. Calib. Times: 0936 1143

GC Column: ZB-WAX ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF0.2500 or AMOUNT	CCAL RRF0.2500	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
dimethylformamide	0.3005000	0.2500000	61728.000	0.01	20.20	25.00	LINR
diethylformamide	3.0672000	2.5000000	81960.000	0.01	22.69	25.00	LINR

FORM VII PEST

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Lab Smp Id: CV 0.25
Inj Date : 16-SEP-2009 11:09
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Misc Info : CV
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (mg/L)	AMOUNTS ON-COL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	15432	0.25000	0.300(M)	M5
$ 2 diethylformamide	2.680	2.680	0.000	204900	2.50000	3.07(M)	

JW 091609

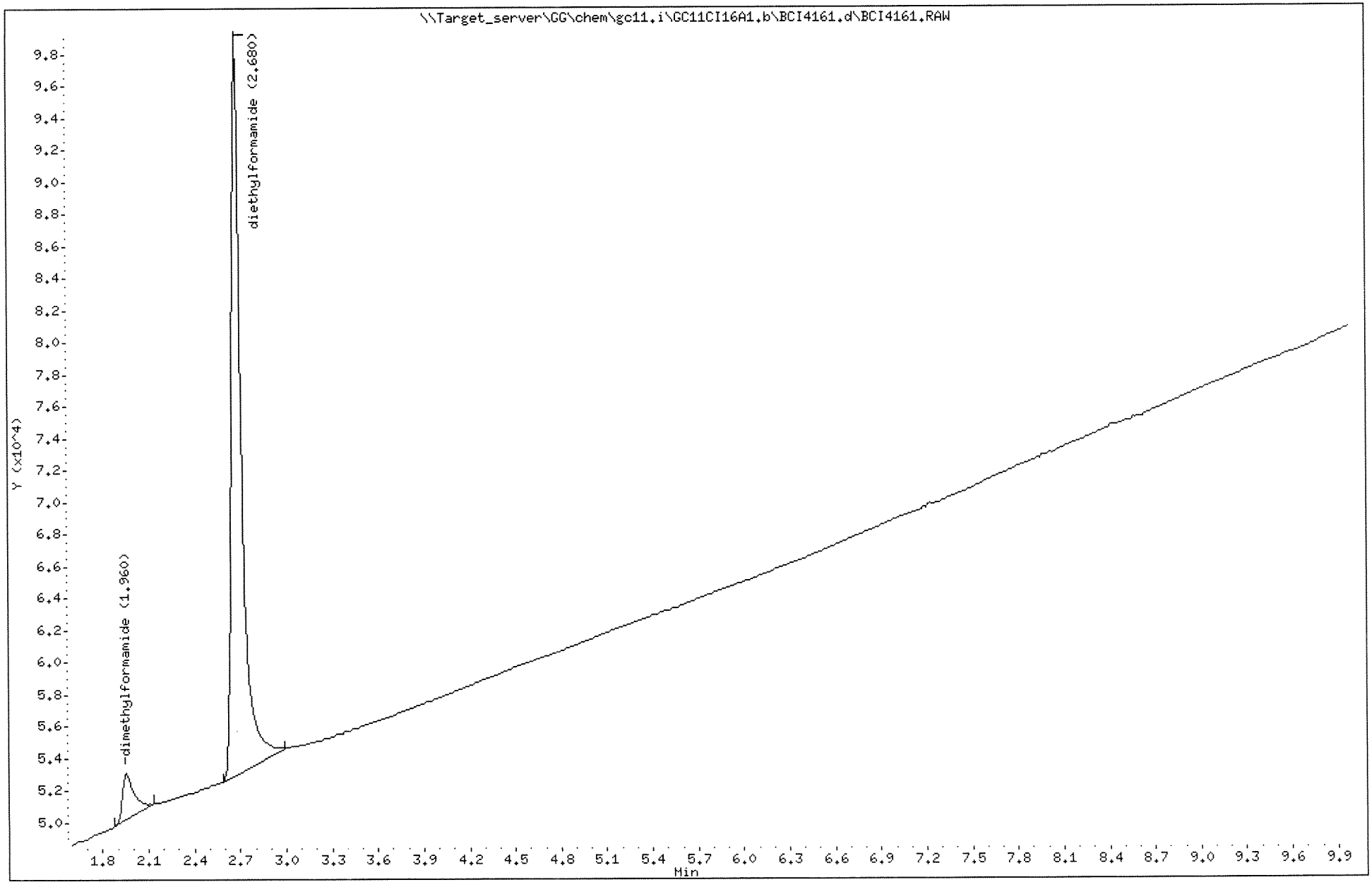
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4161.d
Date : 16-SEP-2009 11:09
Client ID:
Sample Info: DMFB038A.M,GC11CI16A1.B,1,CV 0.25
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000136

Raw QC Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-AUG-2009 15:16
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: WG67967-1
Client ID: WG67967-Blank
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		151%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2139.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2139.d
Lab Smp Id: WG67967-1 Client Smp ID: WG67967-Blank
Inj Date : 31-AUG-2009 15:16
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,WG67967-1
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CH27A1.B\DMFB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:06 Cal File: BCH2132.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

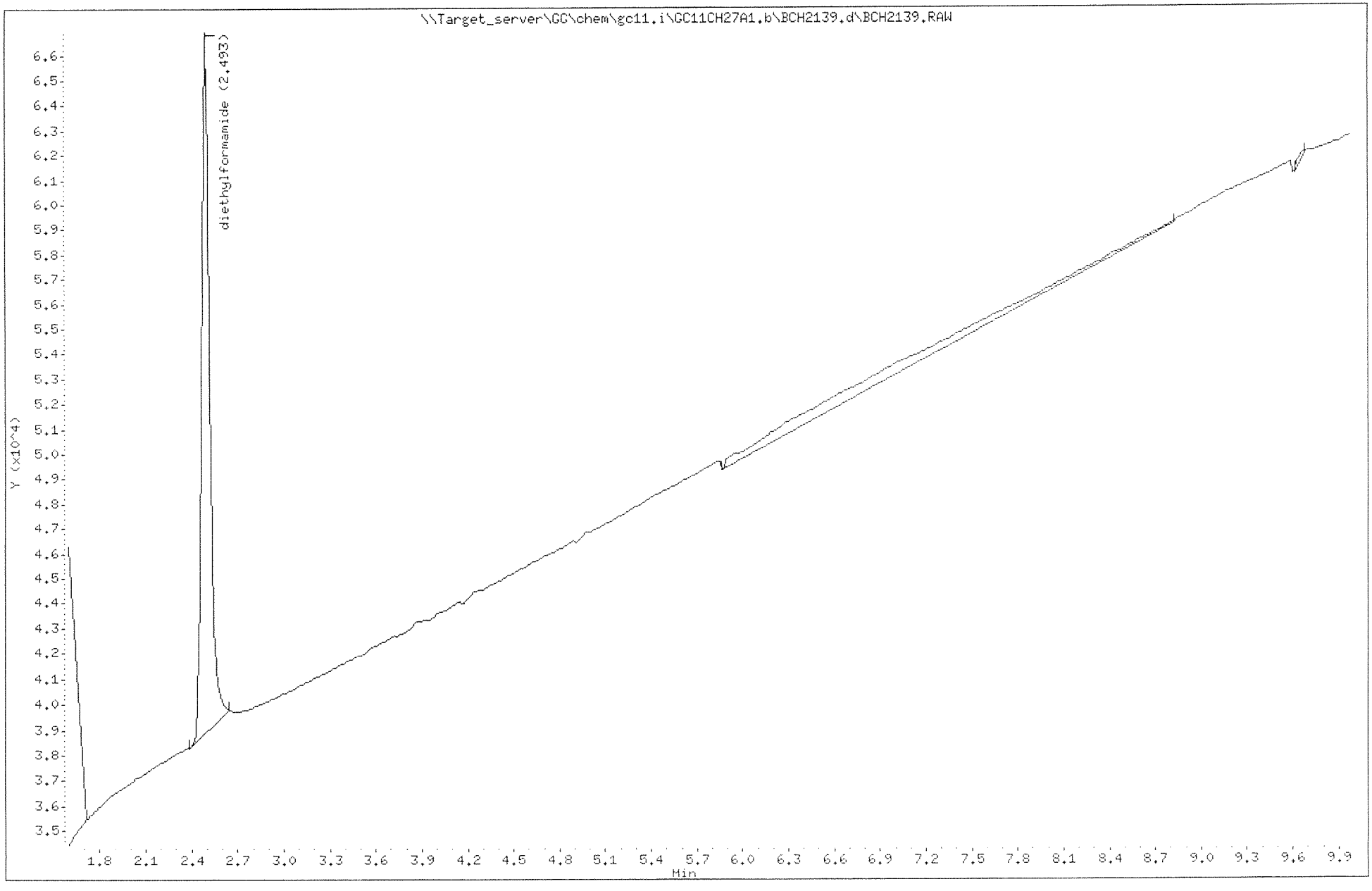
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	100843	0.75362	0.754	

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2139.d
Date : 31-AUG-2009 15:16
Client ID: WG67967-Blank
Sample Info: DMFB035A.M,GC11CH27A1.B,1,WG67967-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000140

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 08/31/09
Analysis Date: 02-SEP-2009 17:20
Report Date: 09/16/2009
Matrix: SOIL
% Solids: 100

Lab ID: WG68045-1
Client ID: WG68045-Blank
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.80	1.0	0.80	0.80	0.80
	diethylformamide		116%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2120.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2120.d
Lab Smp Id: WG68045-1 Client Smp ID: WG68045-Blank
Inj Date : 02-SEP-2009 17:20
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,WG68045-1
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
$ 2 diethylformamide	2.493	2.493	0.000	60442	0.58168	23.3(M)	M4

JP 091609

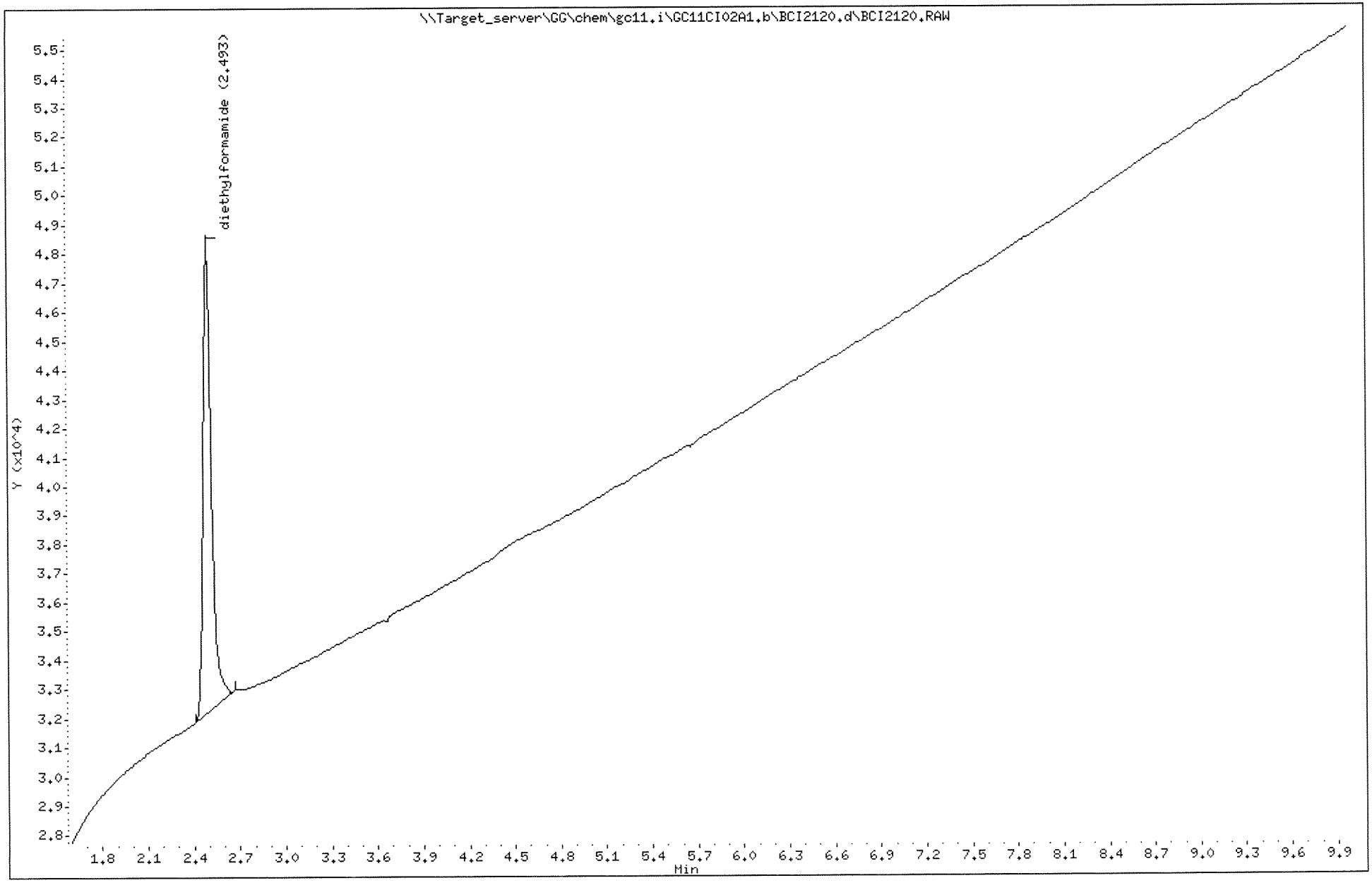
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2120.d
Date : 02-SEP-2009 17:20
Client ID: WG68045-Blank
Sample Info: DMFB036A,M,GC11CI02A1.B,1,WG68045-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000143

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 16-SEP-2009 09:15
Report Date: 09/16/2009
Matrix: WATER
% Solids: NA

Lab ID: WG68695-1
Client ID: WG68695-Blank
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.020	1.0	0.020	0.020	0.0048
	diethylformamide		121%				

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4153.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4153.d
Lab Smp Id: WG68695-1 Client Smp ID: WG68695-Blank
Inj Date : 16-SEP-2009 09:15
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68695-1
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
$ 2 diethylformamide	2.680	2.680	0.000	34755	0.60321	0.603(M)	M5

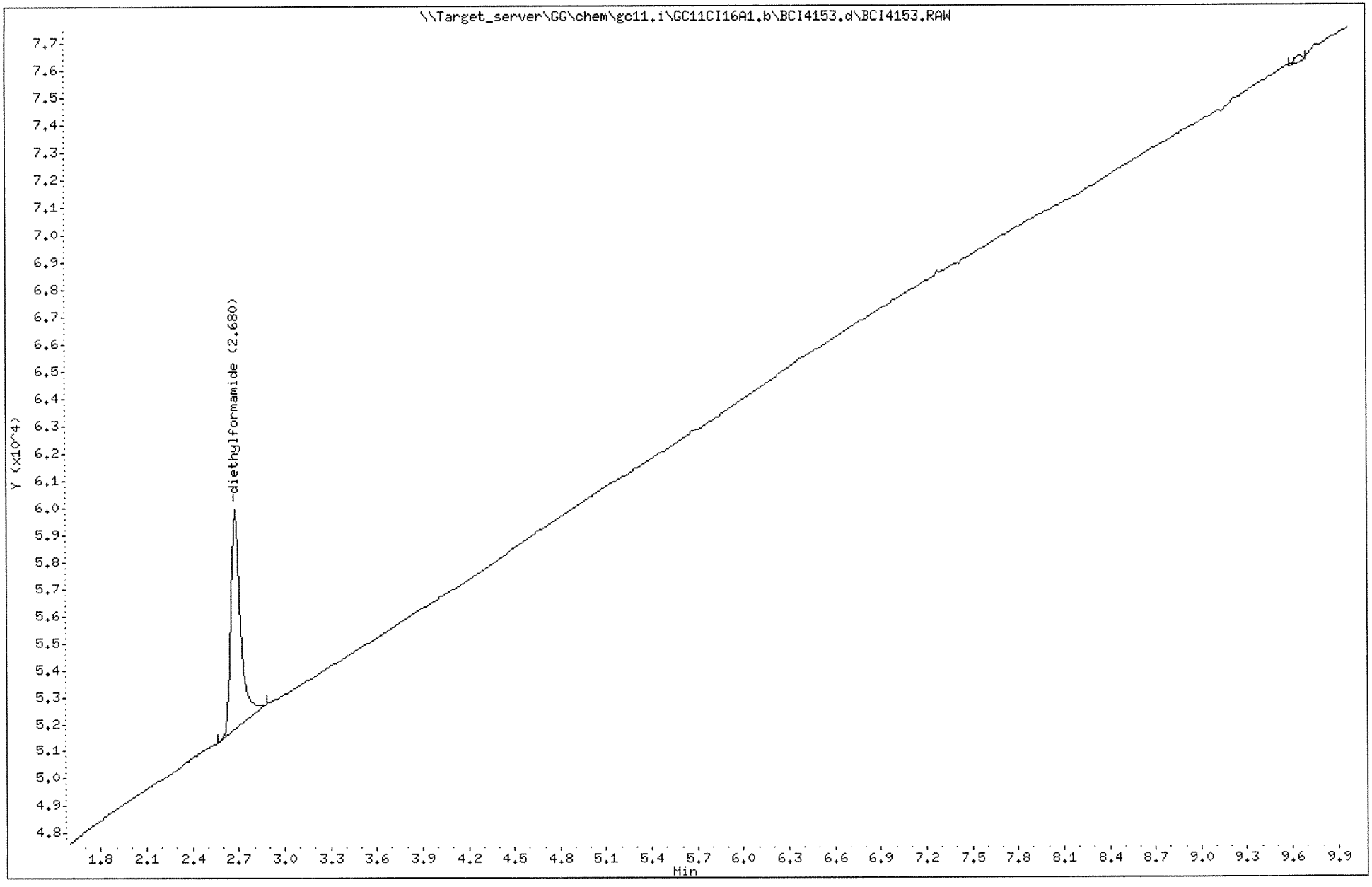
JT 091009

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4153.d
Date : 16-SEP-2009 09:15
Client ID: WG68695-Blank
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68695-1
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000146

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 08/31/09
Report Date: 09/16/2009
Matrix: WATER

Lab ID: WG67967-2
Client ID: WG67967-LCS
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 M8033
Lab Prep Batch: WG67967
Units: mg/L

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
dimethylformamide	0.20	NA	0.21	106	70-130

FORM III DMF-1

BCH2145.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2145.d
Report Date: 09-Sep-2009 10:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\BCH2145.d
Lab Smp Id: WG67967-2 Client Smp ID: WG67967-LCS
Inj Date : 31-AUG-2009 17:42
Operator : KT Inst ID: gc11.i
Smp Info : DMFB035A.M,GC11CH27A1.B,1,WG67967-2
Misc Info : SW846 M8033
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CH27A1.b\dmfB035A.m
Meth Date : 01-Sep-2009 10:31 gc11.i Quant Type: ESTD
Cal Date : 31-AUG-2009 13:06 Cal File: BCH2132.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

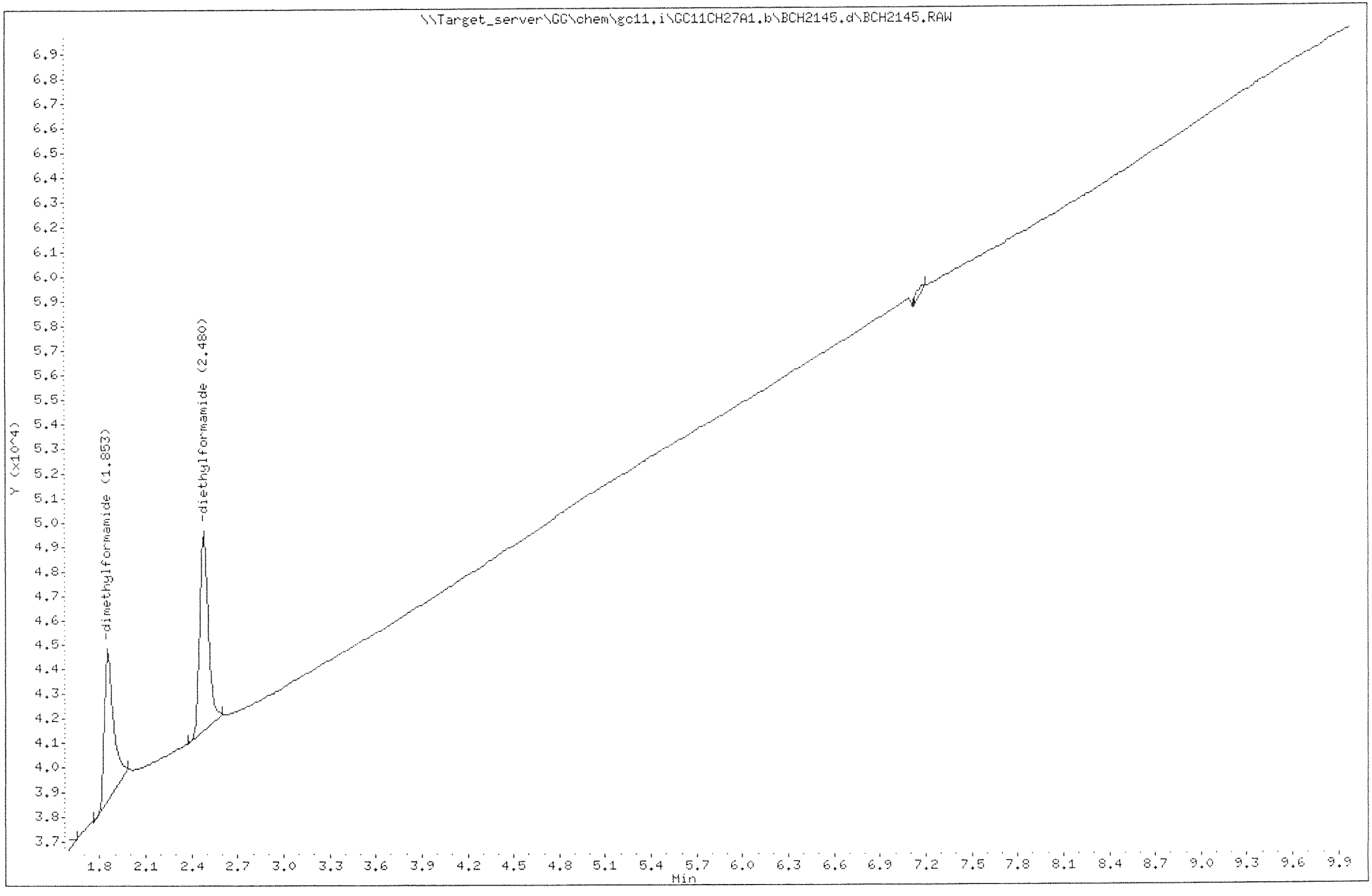
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
1 dimethylformamide	1.853	1.880	-0.027	24937	0.21105	0.211	
$ 2 diethylformamide	2.480	2.493	-0.013	31636	0.34898	0.349	

Data File: \\Target_server\GC\chem\gc11.i\GC11CH27A1.b\BCH2145.d
Date : 31-AUG-2009 17:42
Client ID: WG67967-LCS
Sample Info: DMFB035A.M,GC11CH27A1.B,1,WG67967-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000149

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 08/31/09
Analysis Date: 09/02/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-2 & WG68045-3
Client ID: WG68045-LCS & WG68045-LCSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: KT
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.0	1.0	NA	1.6	1.6	* 165	* 158	4	50	70-130

FORM III DMF-2

BCI2122.d & BCI2124.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2122.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2122.d
Lab Smp Id: WG68045-2 Client Smp ID: WG68045-LCS
Inj Date : 02-SEP-2009 17:48
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,WG68045-2
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.906	1.867	0.039	1087	0.04129	1.65(RM)	M4
$ 2 diethylformamide	2.466	2.493	-0.027	48873	0.49056	19.6	

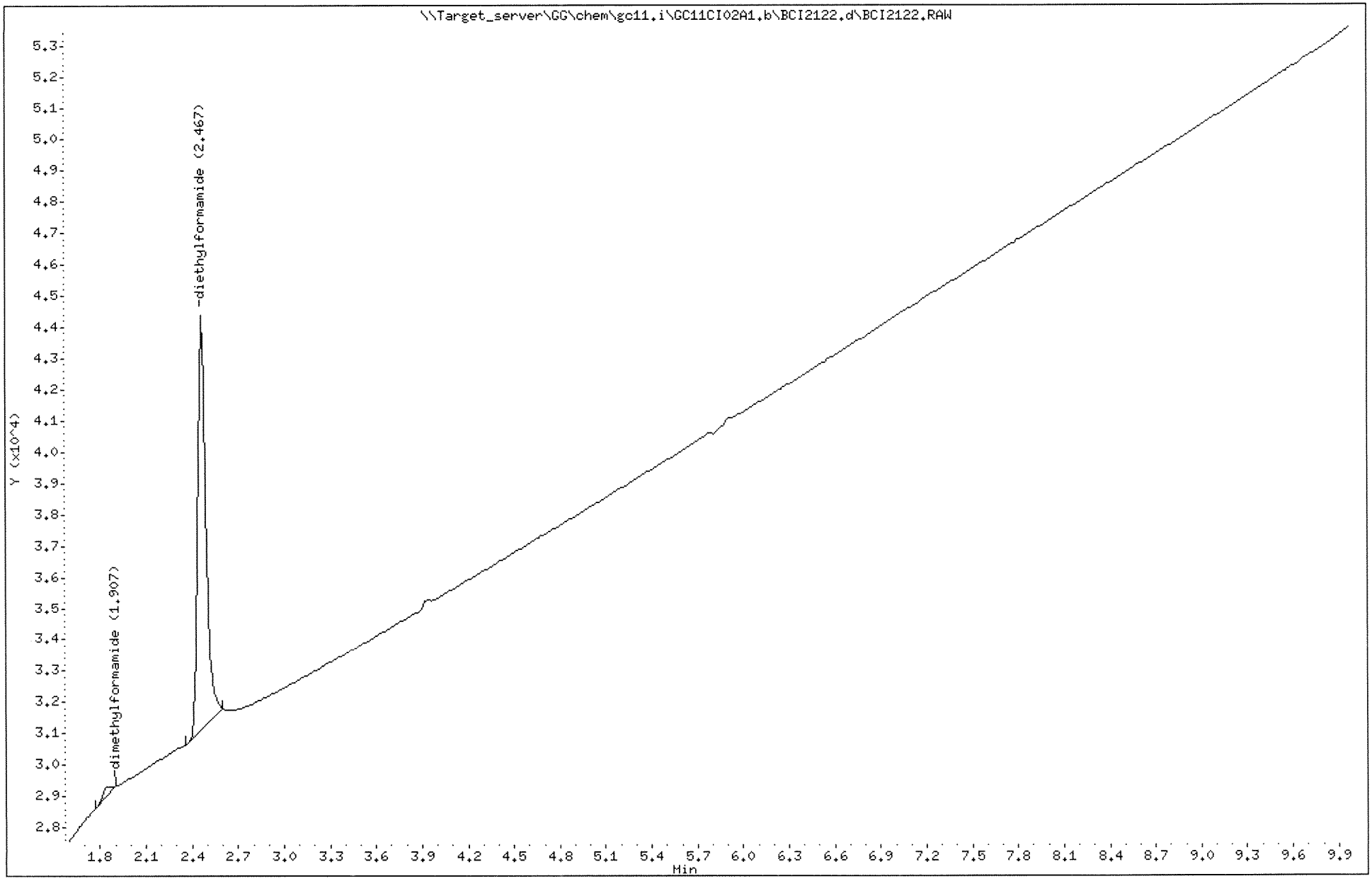
JLP 091609

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2122.d
Date : 02-SEP-2009 17:48
Client ID: WG68045-LCS
Sample Info: DMFB036A,M,GC11CI02A1.B,1,WG68045-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000152

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2124.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2124.d
Lab Smp Id: WG68045-3 Client Smp ID: WG68045-LCSD
Inj Date : 02-SEP-2009 18:16
Operator : KT Inst ID: gc11.i
Smp Info : DMFB036A.M,GC11CI02A1.B,1,WG68045-3
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\dmfB036A.m
Meth Date : 02-Sep-2009 15:32 ktanguay Quant Type: ESTD
Cal Date : 01-SEP-2009 16:10 Cal File: BCI2022.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00100	Sample Weight
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	1.853	1.867	-0.014	941	0.03961	1.58(RM)	M4
$ 2 diethylformamide	2.466	2.493	-0.027	47994	0.48363	19.3(M)	M4

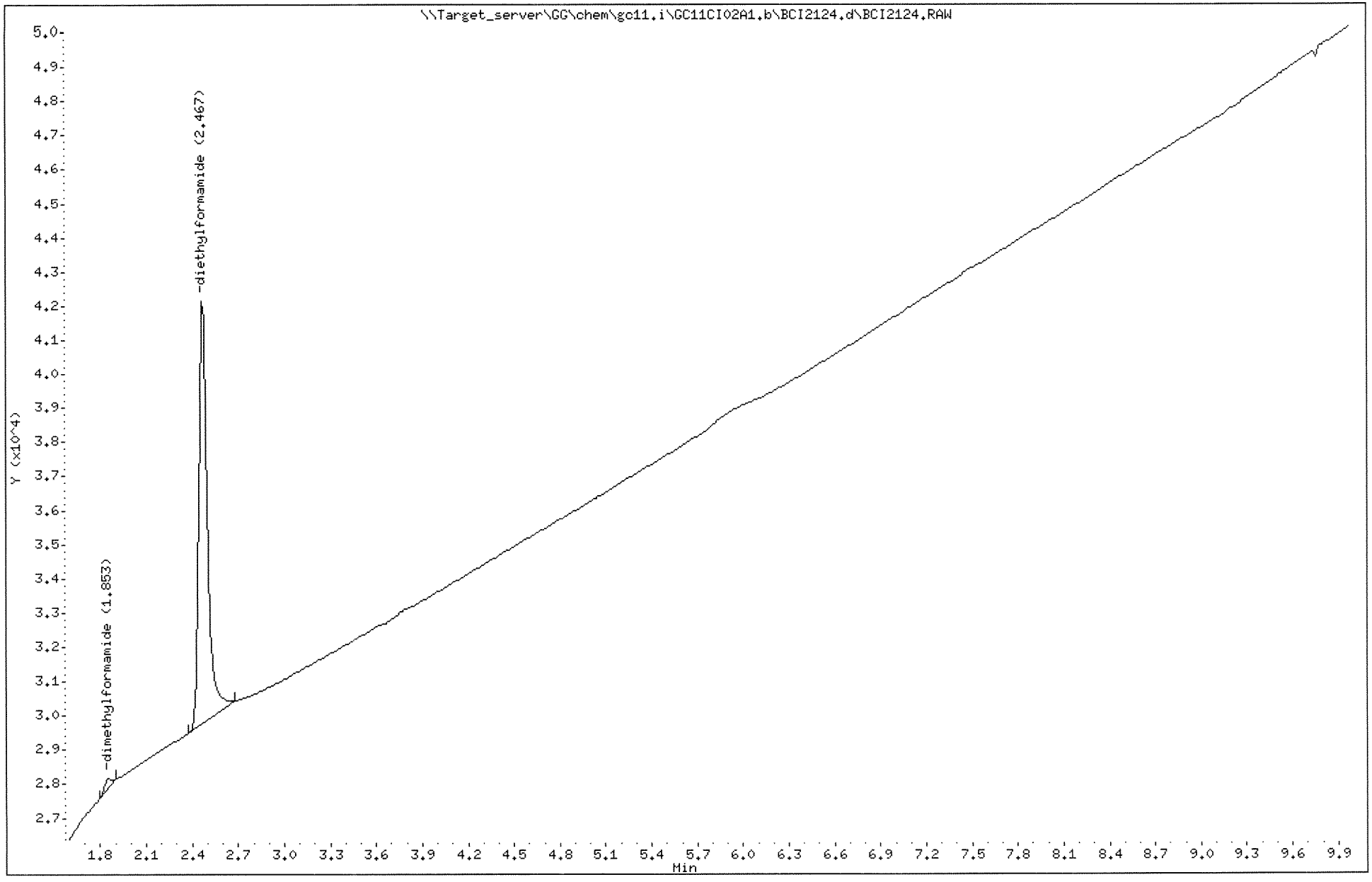
JP 091409

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI02A1.b\BCI2124.d
Date : 02-SEP-2009 18:16
Client ID: WG68045-LCSD
Sample Info: DMFB036A.M,GC11CI02A1.B,1,WG68045-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: KT
Column diameter: 0.53



Katahdin Analytical Services 1000154

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 09/16/09
Report Date: 09/16/2009
Matrix: WATER

Lab ID: WG68695-2 & WG68695-3
Client ID: WG68695-LCS & WG68695-LCSD
SDG: WIL-3
Extracted by:
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 M8033
Lab Prep Batch: WG68695
Units: mg/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.		%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	0.10	0.10	NA	0.12	0.08	123	84	*	37	30	70-130

FORM III DMF-1

BCI4154.d & BCI4156.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4154.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4154.d
Lab Smp Id: WG68695-2 Client Smp ID: WG68695-LCS
Inj Date : 16-SEP-2009 09:29
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68695-2
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	5638	0.12316	0.123(M)	
$ 2 diethylformamide	2.680	2.680	0.000	45684	0.76148	0.761(M)	M5

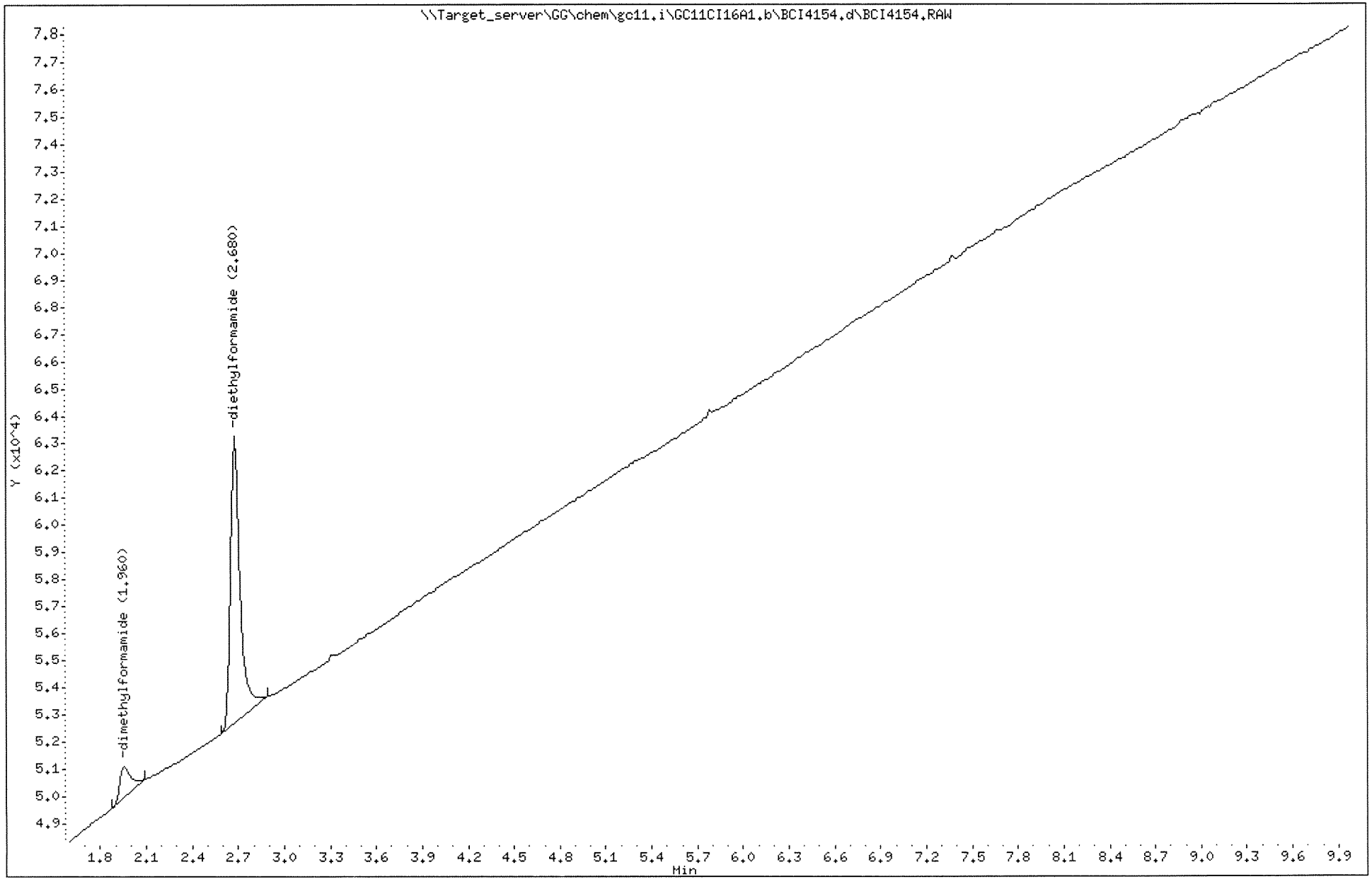
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4154.d
Date : 16-SEP-2009 09:29
Client ID: WG68695-LCS
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68695-2
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000157

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4156.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4156.d
Lab Smp Id: WG68695-3 Client Smp ID: WG68695-LCSD
Inj Date : 16-SEP-2009 09:57
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68695-3
Misc Info : SW846 M8033
Comment :
Method : \\TARGET_SERVER\GG\chem\gc11.i\GC11CI16A1.B\DMFB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12
Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	FinalVolume (L)
Vo	0.00100	SampleVolume (L)
Cpnd Variable		Local Compound Variable

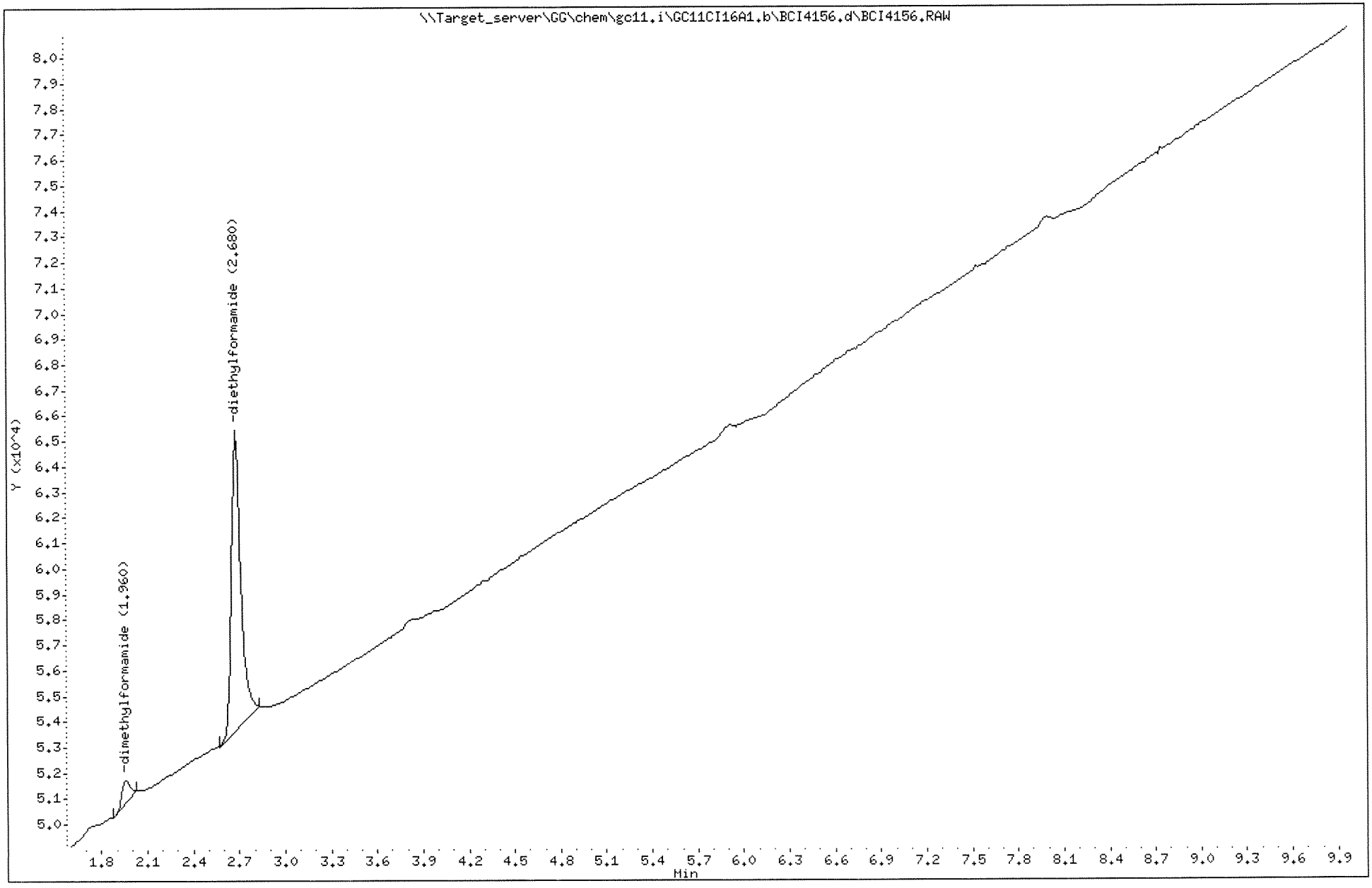
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/L)	REVIEW CODE
1 dimethylformamide	1.960	1.960	0.000	3500	0.08444	0.0844	
$ 2 diethylformamide	2.680	2.680	0.000	49220	0.81268	0.813(R)	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4156.d
Date : 16-SEP-2009 09:57
Client ID: WG68695-LCSD
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68695-3
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000159

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/19/09
Received Date: 08/22/09
Extraction Date: 08/31/09
Analysis Date: 09/15/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-4 & WG68045-5
Client ID: SB-426-5.0/7.0-XMS & SB-426-5.0/7.0-XMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.2	1.1	0.00	1.5	1.5	129	* 133	4	50	70-130

FORM III DMF-2

BCI4113.d & BCI4115.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4113.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4113.d
Lab Smp Id: WG68045-4 Client Smp ID: SB-426-5.0/7.0-XMS
Inj Date : 15-SEP-2009 19:08
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68045-4
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00098	Sample Weight
M	14.653	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.053	1.960	0.093	613	0.03216	1.54(M)	M6
$ 2 diethylformamide	2.680	2.680	0.000	30383	0.53989	25.8(M)	M5

JLP 091609

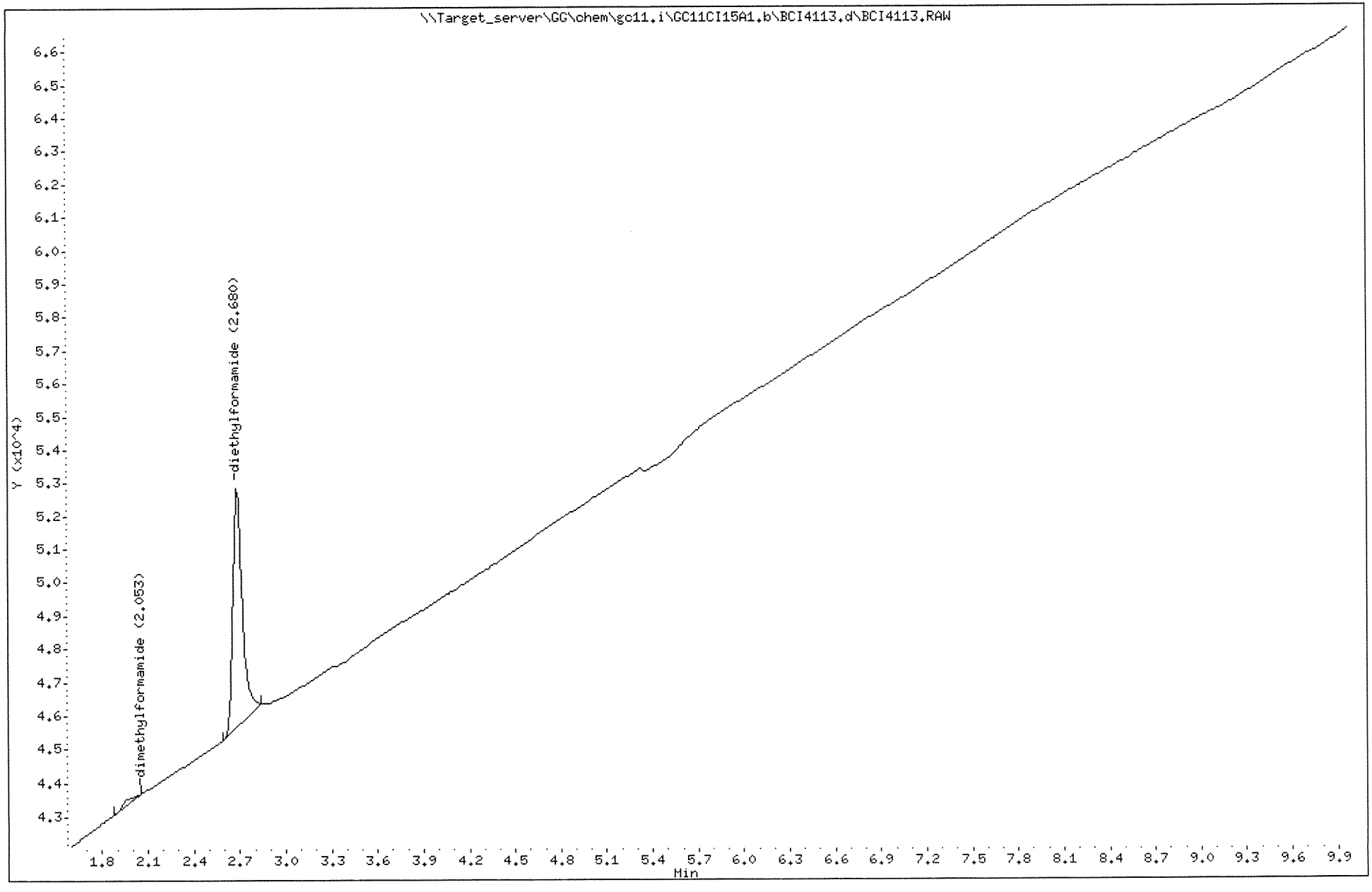
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4113.d
Date : 15-SEP-2009 19:08
Client ID: SB-426-5.0/7.0-XMS
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68045-4
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i

Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000162

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4115.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4115.d
Lab Smp Id: WG68045-5 Client Smp ID: SB-426-5.0/7.0-XMSD
Inj Date : 15-SEP-2009 19:37
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68045-5
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00105	Sample Weight
M	14.653	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.040	1.960	0.080	673	0.03325	1.48(RM)	M6
$ 2 diethylformamide	2.680	2.680	0.000	31850	0.56114	25.0(M)	M5

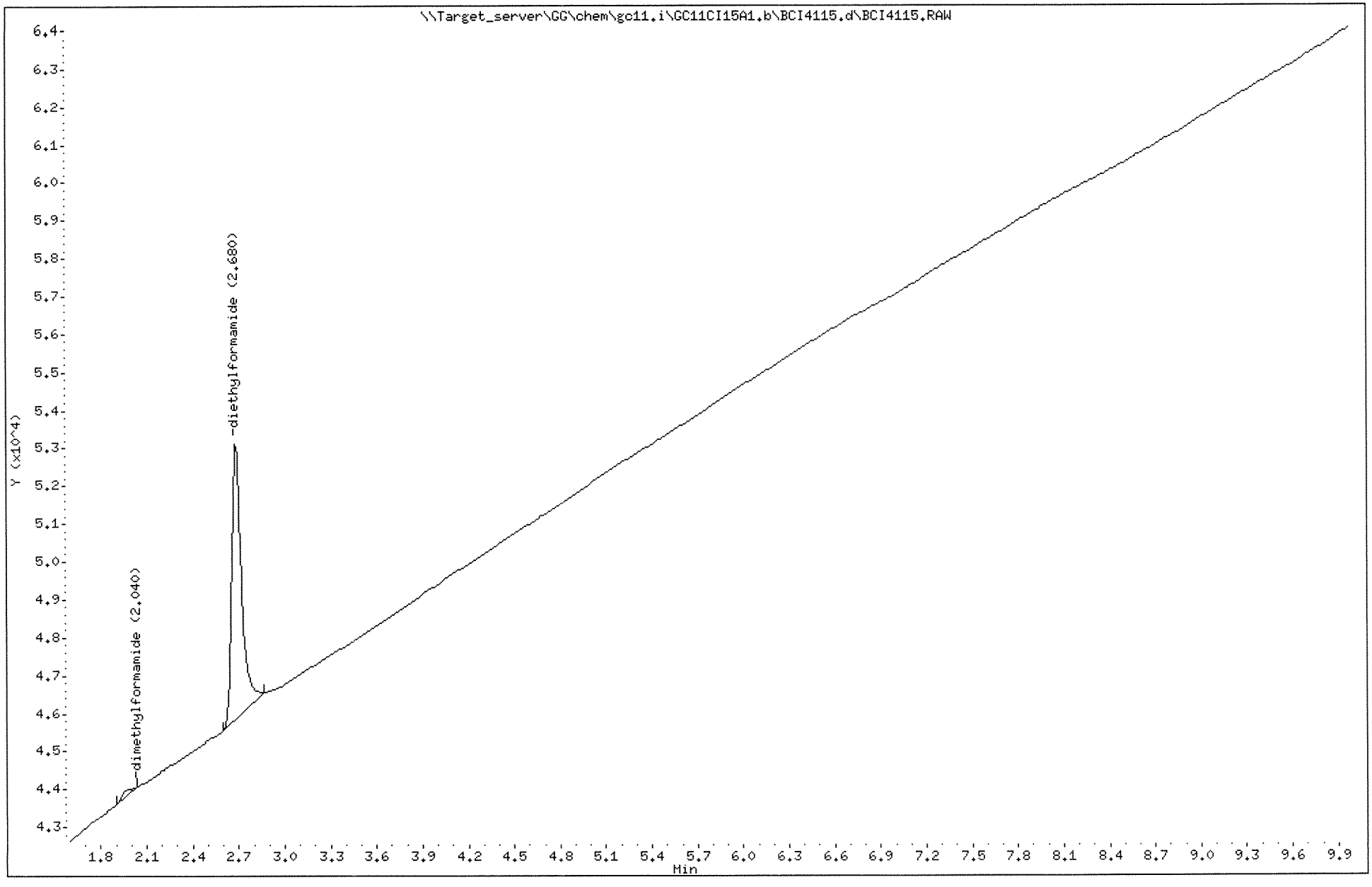
JLP 09/16/09

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4115.d
Date : 15-SEP-2009 19:37
Client ID: SB-426-5.0/7.0-XMSD
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68045-5
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000164

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 09/15/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-6 & WG68045-7
Client ID: SB-446-5.0/7.0-XMS & SB-446-5.0/7.0-XMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.0	1.1	0.00	1.2	1.4	118	123	9	50	70-130

FORM III DMF-2

BCI4117.d & BCI4119.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4117.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4117.d
Lab Smp Id: WG68045-6 Client Smp ID: SB-446-5.0/7.0-XMS
Inj Date : 15-SEP-2009 20:05
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68045-6
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00115	Sample Weight
M	17.557	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.013	1.960	0.053	475	0.02966	1.25(M)	M6
$ 2 diethylformamide	2.680	2.680	0.000	31675	0.55860	23.6(M)	M5

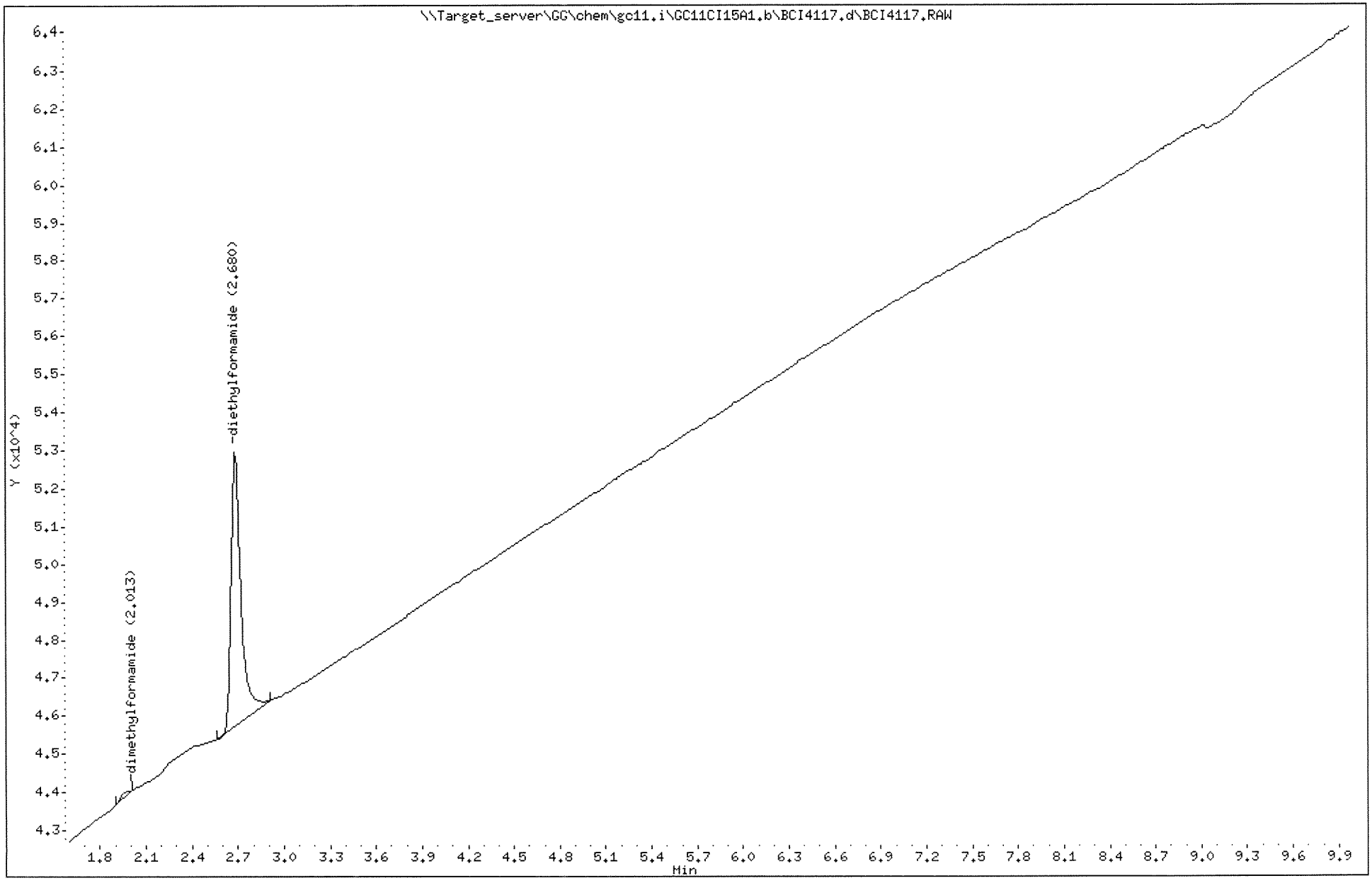
JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4117.d
Date : 15-SEP-2009 20:05
Client ID: SB-446-5.0/7.0-XMS
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68045-6
Purge Volume: 0.0
Column phase: ZB-WAX

Instrument: gc11.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services 1000167

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4119.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4119.d
Lab Smp Id: WG68045-7 Client Smp ID: SB-446-5.0/7.0-XMSD
Inj Date : 15-SEP-2009 20:34
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68045-7
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00109	Sample Weight
M	17.557	% Moisture
Cpnd Variable		Local Compound Variable

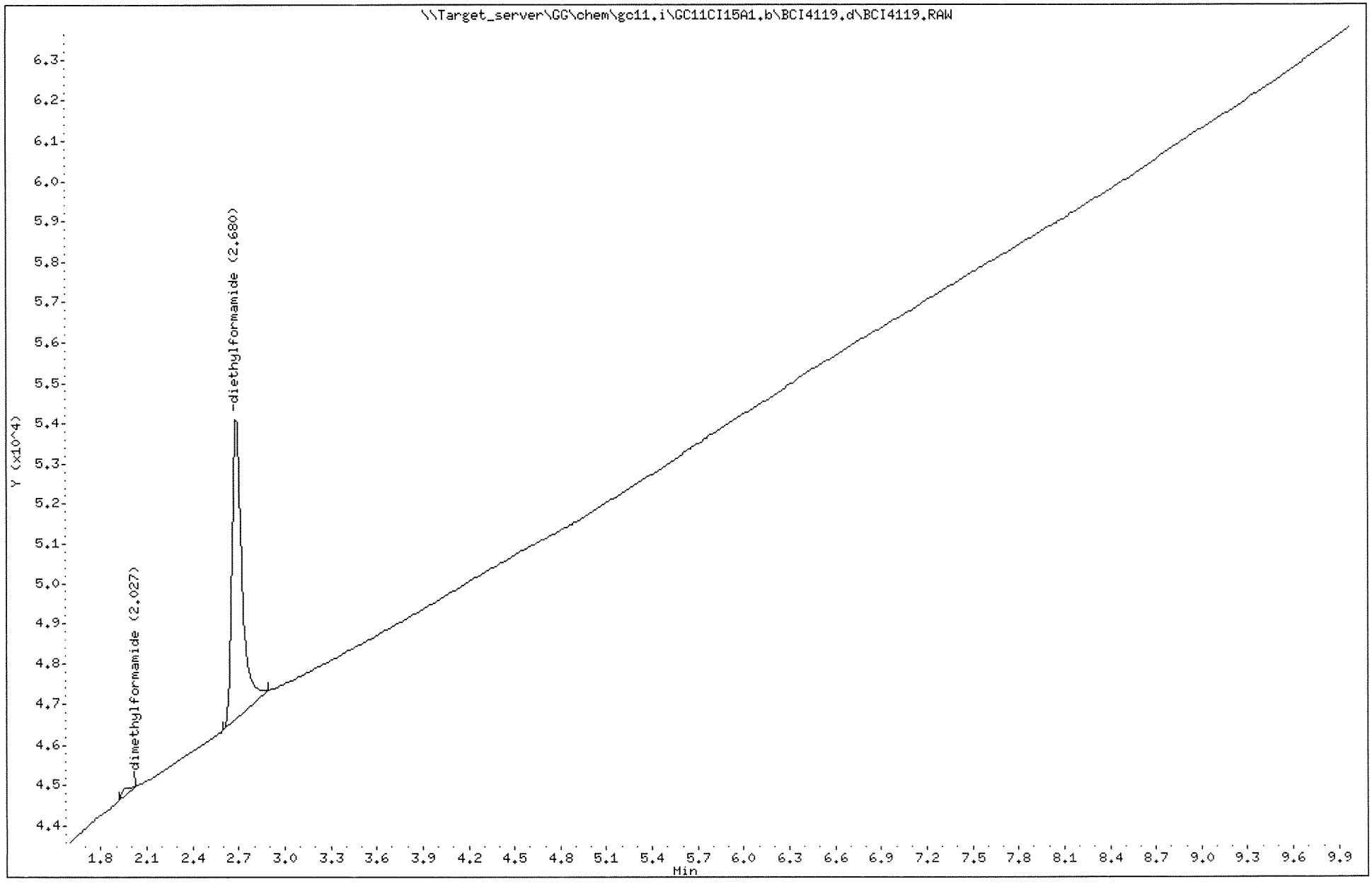
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.026	1.960	0.066	542	0.03088	1.37(M)	M6
$ 2 diethylformamide	2.680	2.680	0.000	33590	0.58633	26.1(M)	M5

JLP 091609

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4119.d
Date : 15-SEP-2009 20:34
Client ID: SB-446-5.0/7.0-XMSD
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68045-7
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000169

KATAHDIN ANALYTICAL SERVICES
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Client: Olin Corporation
Project: Wilmington
PO No:
Sample Date: 08/25/09
Received Date: 08/26/09
Extraction Date: 08/31/09
Analysis Date: 09/16/09
Report Date: 09/16/2009
Matrix: SOIL

Lab ID: WG68045-8 & WG68045-9RA
Client ID: SB-430-8.0/10-XXMS & SB-430-8.0/10-XXMSD
SDG: WIL-3
Extracted by: KT
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG68045
Units: mg/Kgdrwt

COMPOUND	MS SPIKE	MSD SPIKE	SAMPLE CONC.	MS CONC.	MSD CONC.	MS %REC.	MSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	1.1	1.0	0.00	1.5	1.5	* 138	* 144	0.7	50	70-130

FORM III DMF-2

BCI4121.d & BCI4159.d

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4121.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4121.d
Lab Smp Id: WG68045-8 Client Smp ID: SB-430-8.0/10-XXMS
Inj Date : 15-SEP-2009 21:02
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI15A1.B,1,WG68045-8
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 07:25 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 09:50 Cal File: BCI4074.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00101	Sample Weight
M	8.916	% Moisture
Cpnd Variable		Local Compound Variable

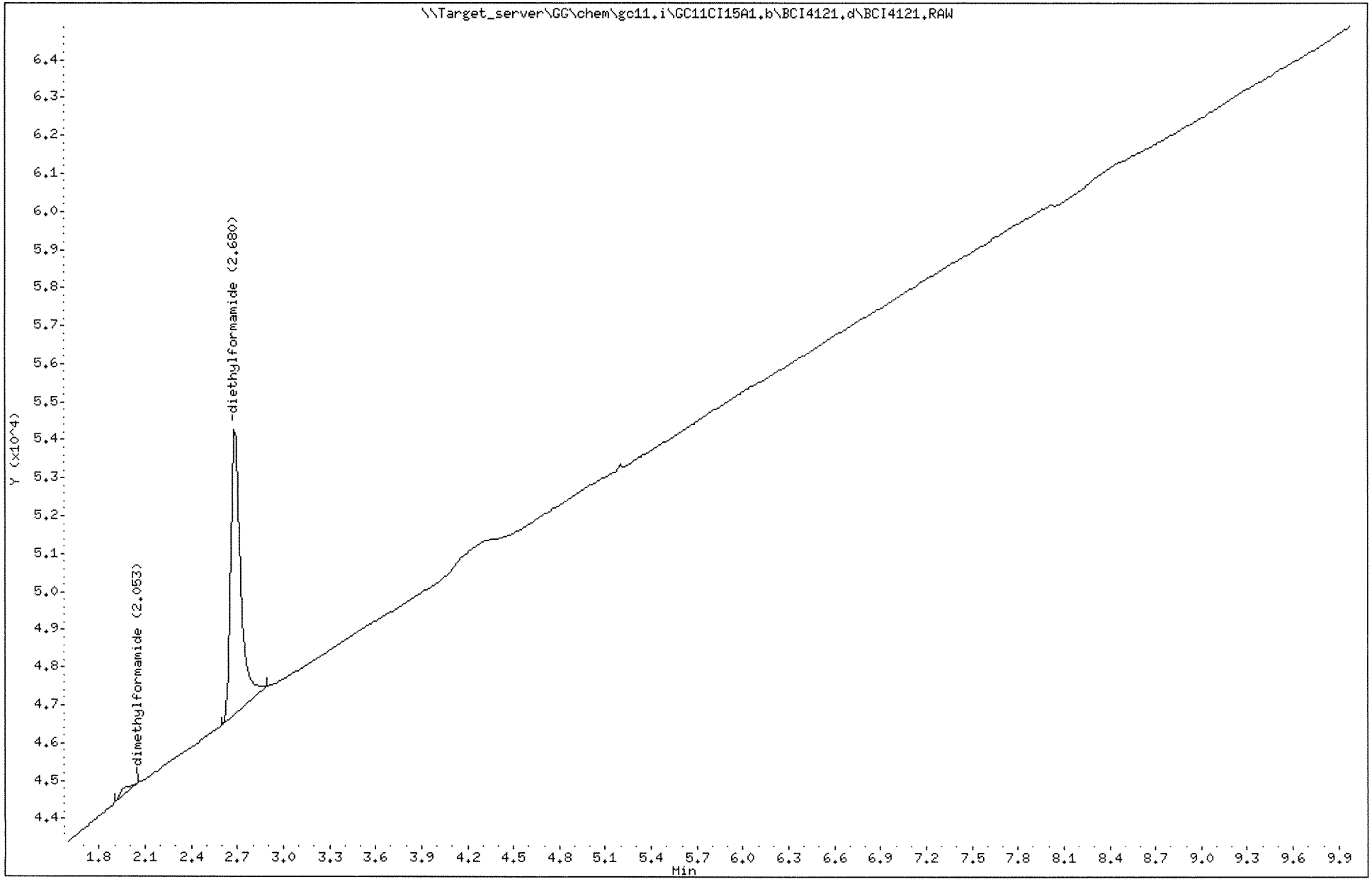
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.053	1.960	0.093	746	0.03457	1.50(RM)	M6
$ 2 diethylformamide	2.680	2.680	0.000	33562	0.58593	25.5(M)	M5

JLP 091609

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc11.i\GC11CI15A1.b\BCI4121.d
Date : 15-SEP-2009 21:02
Client ID: SB-430-8.0/10-XXMS
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI15A1.B,1,WG68045-8
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000172

Data File: \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4159.d
Report Date: 16-Sep-2009 12:27

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\BCI4159.d
Lab Smp Id: WG68045-9RA Client Smp ID: SB-430-8.0/10-XXMSD
Inj Date : 16-SEP-2009 10:41
Operator : JLP Inst ID: gc11.i
Smp Info : DMFB038A.M,GC11CI16A1.B,1,WG68045-9RA
Misc Info : SW846 8033M
Comment :
Method : \\Target_server\GG\chem\gc11.i\GC11CI16A1.b\dmfB038A.m
Meth Date : 16-Sep-2009 11:09 jprescott Quant Type: ESTD
Cal Date : 15-SEP-2009 11:43 Cal File: BCI4082.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: SW8033M.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of final extract (L)
Vo	0.00105	Sample Weight
M	8.916	% Moisture
Cpnd Variable		Local Compound Variable

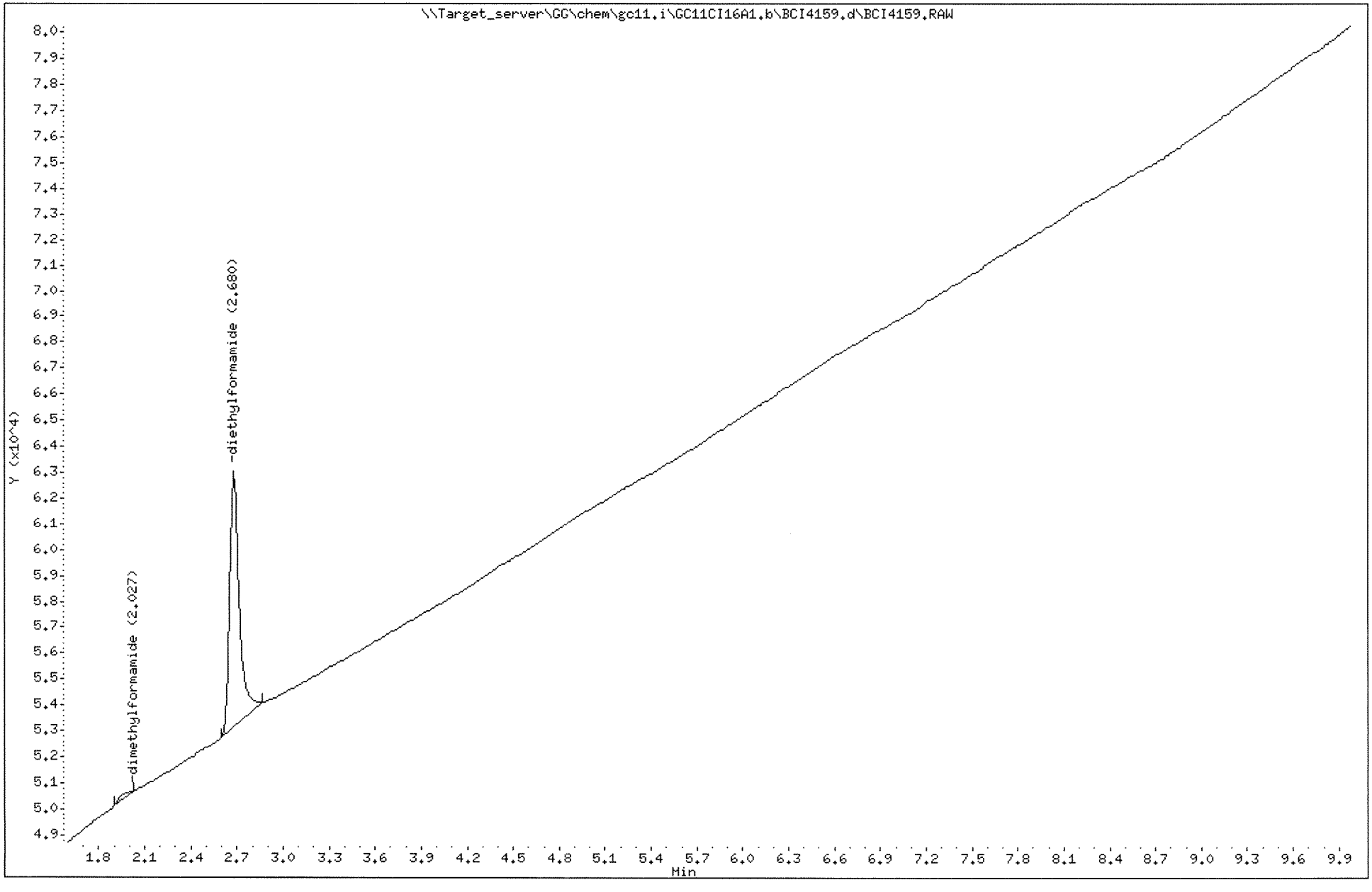
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (mg/L)	CONCENTRATIONS FINAL (mg/Kgdrwt)	REVIEW CODE
1 dimethylformamide	2.026	1.960	0.066	828	0.03606	1.51(RM)	M6
$ 2 diethylformamide	2.680	2.680	0.000	42506	0.71545	29.9(RM)	M5

JP 09/16/09

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc11.i\GC11CI16A1.b\BCI4159.d
Date : 16-SEP-2009 10:41
Client ID: SB-430-8.0/10-XXMSD
Instrument: gc11.i
Sample Info: DMFB038A.M,GC11CI16A1.B,1,WG68045-9RA
Purge Volume: 0.0
Operator: JLP
Column phase: ZB-WAX
Column diameter: 0.53



Katahdin Analytical Services 1000174

Logbooks and Supporting Documents

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal 24.5 Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
083109	KT	BCH2122	Water	N	DMFB035A	227	
		123	ICAL 0.5				
		124	Water				
		125					
		126					
		127					
		128	ICAL 0.05	Y			GCV2307
		129	0.02	Y			GCV2306
		130	0.1	Y			GCV2308
		131	Water	N			
		132	ICAL 0.25	Y			GCV2307
		133	Water	N			
		134	ICAL 0.5	Y			GCV2310
		135	Water	N			
		136	ICAL 1.0	N			high GCV2311
		137	Water	N			
		138		N			
		139	W6679671	Y			
		140	-2	N			No spike
		141	-3	N			
		142	Water	N			
		143	W6679672	N			
		144	Water	N			
		145	W6679672	Y			
		146	Water	N			
		147	W6679673	N			No spike
		148	Water	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2340	
2	LCS	25	GCV2305	
3	CV	—	GCV2309	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Reviewed by/Date:_____

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
8-31-09	JLP	BCH2 149	SC4859-10	Y	DMFB035A	227	
		150	water	N			
		151	SC4859-11	Y			
		152	water	N			
		153	SC4941-5	Y			
		154	water	N			
		155					
		156					
		157	CV 0.5	Y			
9-1-09	JLP	BCI2001	Wath	N			
		02	CV 0.25				
		03	CV 0.25				
		04	Water				
		05	CV 0.25				
		06	Wath				
		07	CV 0.25				
		08	Wath				
		09					
		10	CV 0.25				
		11	Wath				
		12					
		13	ICAL 0.02	Y	DMFB036A		GCV2306
		14	0.05				GCV2307
		15	0.1				GCV2308
		16	Water	N			
		17	ICAL 0.25	Y			GCV2309
		18	Water	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2340	
2	LCS	25	GCV2305	
3	CV	—	GCV2310	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF

Reviewed by/Date:_____

Signal_____ Power_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-1-09	JLP	BCI 20 19	ICAL 0.5	Y	DMPB036A	227	GCV2310
		20	Water	N			
		21	↓	N			
		22	ICAL 1.0	Y			GCV2311
		23	Water	N			
		24	↓	↓			
		25	↓	↓			
		26	WG67943-1	Y			
		27	↓ -2	Y			
		28	water	N			
		29	WG67943-3	Y			
		30	water	N			
		31	SC4859-1	Y			
		32		N			
		33	SC4859-2	Y			
		34		N			
		35	SC4859-3	Y			
		36		N			
		37	SC4859-4	Y			
		38		N			
		39	SC4859-5	Y			
		40		N			
		41	SC4859-6	Y			
		42		N			
		43	SC4859-7	Y			
		44	water	N			
↓	↓	↓	45 CV 0.25	Y	↓	↓	

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV2310 09	JLP 090109
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
090209	KT	BCI2100	SC4929-2	Y	DMFB036A	227	
		101	Water	N			
		102	SC4929-3	Y			
		103	Water	N			
		104	SC4929-4	Y			
		105	Water	N			
		106	SC4929-5	Y			
		107	Water	N			
		108	SC4929-6	Y			SST↑
		109	Water	N			
		110	SC4929-7	Y			SST↑
		111	Water	N			
		112	SC4929-8	Y			SST↑
		113	Water	N			
		114	Water	N			
		115	CV 0.25	Y			
		116	Water	N			
		117	↓	N			
		118	SC4929-9	Y			
		119	Water	N			
		120	WG68045-1	Y			
		121	Water	N			
		122	WG68045-2	Y			Spike↑
		123	Water	N			
		124	WG68045-3	Y			Spike↑
		125	Water	N			
		126	SC4941-1	Y			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV 23~~10~~ 09	
4				09150

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-2-09	KT	BG12 127	water	N	DMF-8036A	227	
		128	SC4941-2	Y			
		129	water	N			
		130	SC4941-3	Y			
		131	water	N			
		132	SC4941-4	N			signal dropped
9-3-09	JLP	142	water	N			
		143	CV 0.25	N			↑
		144	water	N			
		145	CV 0.25	Y			
		146	water	N			
9-9-09		161	W				
		162					
		163					
		164	CV 0.25	Y			
		165	W	Y			
		166	ICAL 0.02	Y	DMF-8036A		
		167	0.05	Y			
		168	0.1	N			signal dropped
		169	W	N			
		Swapped to Power A					
9-10-09	JLP	170	W	N			signal dropped
		171	W	N			
		172	W	N			
		172A	W	N			
		cleaned purge line					
9-11-09	JLP	173	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	~	GCV2310	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
~~SW846 8015M - 2-MOE~~
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-15-09	JLP	BCI4072	LCW Pt test	Y	DMFB037A	227	
		73	ICAL 0.02	Y	DMFB038A		GCV2306
		74	0.05	Y			GCV2307
		75	0.1	Y			GCV2308
		76	W	N			
		77	ICAL 0.25	Y			GCV2309
		78	W	N			
		79	ICAL 0.5	Y			GCV2310
		80	W	N			
		81	W	N			GCV2311
		82	ICAL 1.0	Y			
		83	W	N			
		84	W				
		85	W				
		86	W-68460-1	Y			
		87	-2	Y			
		88	W	N			
		89	W-68460-3	Y			
		90	W	N			
		91	SC5104-10RA B	Y			
		92	SC5142-8RA	Y			
		93	SC5326-5RA	Y			
		94	CV 0.25	Y			GCV2309
		95	W	N			
		96	SC4941-4RA	Y			
		97	SC4995-4RA	Y			
		98	-2RA	Y			

JLP 091509

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	~~GCV2305~~	2346
2	LCS	10	GCV2305	
3	CV	—	~~GCV2310~~ 09	
4				

JLP 091509

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
~~SW846 8015M - 2-MOE~~
SW846 8033M - DMF
~~Signal~~_____ ~~Power~~_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9.6.09	JLP	BCI4 099	SC4995-3RA	Y	DMFB038A	227	
		100	-4				
		101	-5				
		102	-6				
		103	-7				
		104	-8				
		105	-9				
		106	CV 0.25				
		107	~~SC4995-10RA~~ W	N			
		108	SC4995-10RA	Y			
		109	SC5041-1				
		110	-2				
		111	-3				
		112	-4				
		113	WG68045-4				
		114	W	N			
		115	WG68045-5	Y			spike
		116	W	N			
		117	WG68045-6	Y			
		118	W	N			
		119	WG68045-7	Y			
		120	W	N			
		121	WG68045-8	Y			spike ↑
		122	W	N			
		123	CV 0.25	Y			
		124	WG68045-9	N			spike ↑
		125	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV2309	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-15-09	JLP	BCI4 126	WG683981	Y	DMFB038A	227	
		127	-2	Y			
		128	W	N			
		129	WG683983	Y			
		130	W	N			
		131	SC5042-1	Y			
		132	-2				
		133	-3				
9-16-09		134	-4				
		135	-5				
		136	-6				
		137	CV 0.25				
		138	W	N			
		139	SC5042-7	Y			
		140	SC5104-1				
		141	-2				
		142	-3				
		143	-4				
		144	-5				
		145	-6				
		146	-7				
		147	-8				
		148	-9				
		149	CV 0.25				
		150	W	N			
9-16-09	JLP	151	CV 0.25	Y			
		152	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate			
2	LCS			
3	CV	—	GCV2309	
4				

Katahdin Analytical Services, Inc
GC Laboratory Instrument Runlog
Instrument GC11

Method (circle):
SW846 8015M - Glycols
SW846 8015M - Alcohols
SW846 8015M - 2-MOE
SW846 8033M - DMF
Signal_____ Power_____

Reviewed by/Date:_____

Date	Init	Result File	Sample Number	Accept Y/N	Method Channel A: B:	Column	Comments
9-16-09	JLP	BCI4153	WG68695-1	Y	DMFB038A	227	
		154	↓ -2	Y			
		155	W	N			
		156	WG68695-3	Y			SS↑
		157	W	N			
		158	SC4995-11 B	Y			
		159	WG68045-9RA	Y			Spike + SS↑
		160	W	N			
		161	CV 0.25	Y			
		162	W	N			

	STANDARD ID	uL added	STD. CODE	STD. CODE
1	Surrogate	5	GCV2346	
2	LCS	10	GCV2305	
3	CV	—	GCV2309	
4				

KATAHDIN ANALYTICAL SERVICES
GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume Methanol (mL)	Spike ID and Volume (µL)	Surrogate ID and Volume (µL)	Method	Comments
083109	KT	WG680445-1	1.02	40	NA 05	200µl GCV2032 of 100µg/ml	8033	on shaker 16:55 08/31/09 taken off 9:00AM
		-2	0.99		100µl GCV2307 of ~~100~~µg/ml 10 JW 090309			
		-3	1.03					
		-4	0.98					SC4941-2MS
		-5	1.05					↓ -2MSD
		-6	1.15					SC4995 3MS
		-7	1.09					↓ -3MSD
		-8	1.01					SC4995 8MS
		-9	1.05					↓ -8MSD
		SC4941-1	1.33		NA			
		-2	1.28					
		-3	1.17					
		-4	1.17					
		SC4995-1	1.12					
		-2	1.56					

Reviewed By: _____ Date: _____

KATAHDIN ANALYTICAL SERVICES

GC SOIL PREP LOG

Date of Sample Preparation	Analyst Initials	Sample #	Sample Weight (g)	Volume ~~Methanol~~ DI H_2O (mL) KT	Spike ID and Volume (µL)	Surrogate ID and Volume (µL)	Method	Comments	
083109	KT	SC4995-3	1.28	40	NA	200µl GCV2302 of 100µg/ml	8033	on shaker 16:50 08/31/09	Taken off 9:00
		-4	1.26						
		-5	1.30						
		-6	1.22						
		-7	1.03						
		-8	1.39						
		-9	1.01						
		-10	1.17						
		SC5041-1	1.17						
		-2	1.06						
		-3	1.11						
		-4	1.28						

KT

JP 09/03/09

Reviewed By: _____ Date: _____

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68529	ASTM D2216	11-SEP-09	10-SEP-09	U 1 %	1 %

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Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG68207	ASTM D2216	02-SEP-09	01-SEP-09	U 1 %	1 %
MBLANK	WG68620	ASTM D2216	14-SEP-09	11-SEP-09	U 1 %	1 %

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68529-2	LCS	WG68529	11-SEP-09	10-SEP-09	%	90	90.	100	80-120	
WG68529-4	LCSD	WG68529	11-SEP-09	10-SEP-09	%	90	91.	102	80-120	2

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Quality Control Report

Cert No E87604

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG68207-2	LCS	WG68207	02-SEP-09	01-SEP-09	%	90	90.	100	80-120	
WG68620-2	LCS	WG68620	14-SEP-09	11-SEP-09	%	90	92.	102	80-120	
WG68207-3	LCSD	WG68207	02-SEP-09	01-SEP-09	%	90	90.	100	80-120	0

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ANALYTICAL SERVICES

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Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68620-3	SC4995-8	WG68620	14-SEP-09	%	91.	91.	0	20

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Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG68620-4	SC5041-4	WG68620	14-SEP-09	%	82.	82.	0	20

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Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS

(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H1 Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-426-5.0/7.0-D	SL	19-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-426-5.0/7.0-X	SL	19-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	85. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-445-0.0/1.0-X	SL	21-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	99. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4941-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-445-8.0/10-X	SL	21-AUG-09	22-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	SM2540G	WG68529	11-SEP-09 08:45:00	ASTM D2216	10-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-5.0/7.0-D	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-446-5.0/7.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-448-0.0/1.0-X	SL	25-AUG-01	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68207	02-SEP-09 08:30:00	ASTM D2216	01-SEP-09	JF	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-5
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-448-8.0/10-XX	SL	25-AUG-01	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1	SM2540G	WG68207	02-SEP-09 08:30:00	ASTM D2216	01-SEP-09	JF	

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-6
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	97. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-7
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-8.0/10-D	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	94. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-8
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-430-8.0/10-XX	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-9
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-422-0.0/1.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC4995-10
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-422-6.0/8.0-X	SL	25-AUG-09	26-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	86. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
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Lab Sample ID: SC5041-1
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-402-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-2
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-402-7.5/9.5-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	92. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-3
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-407-0.0/1.0-X	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Chris Ricardi
Mactec Engineering and Consulting
P.O. Box 7050 DTS
Portland,ME 04112-7050

Lab Sample ID: SC5041-4
Report Date: 16-SEP-09
Client PO: ERRE9844 REWI0014
Project: Wilmington
SDG: WIL-3

Sample Description	Matrix	Date Sampled	Date Received
OC-SB-407-8.0/10-XX	SL	26-AUG-09	27-AUG-09

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	82. %	1	SM2540G	WG68620	14-SEP-09 10:08:00	ASTM D2216	11-SEP-09	KT	

Raw Data Section

TOTAL SOLIDS BATCH REPORT
Sep 02 2009, 09:01 am
Batch: WG68207

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SC4856-1	SL	SAMP	WG68207	01-SEP-09	.99 g	7.364 g	6.148 g	JF	02-SEP-09	80.9220	81. %		
SC4856-2	SL	SAMP	WG68207	01-SEP-09	.993 g	8.884 g	6.764 g	JF	02-SEP-09	73.1340	73. %		
SC4856-3	SL	SAMP	WG68207	01-SEP-09	.995 g	10.118 g	8.49 g	JF	02-SEP-09	82.1550	82. %		
SC4856-4	SL	SAMP	WG68207	01-SEP-09	.99 g	6.575 g	5.054 g	JF	02-SEP-09	72.7660	73. %		
SC4856-5	SL	SAMP	WG68207	01-SEP-09	1.006 g	6.452 g	5.295 g	JF	02-SEP-09	78.7550	79. %		
SC4978-1	SL	SAMP	WG68207	01-SEP-09	.991 g	2.094 g	2.069 g	JF	02-SEP-09	97.7330	98. %		
SC4978-2	SL	SAMP	WG68207	01-SEP-09	.987 g	1.906 g	1.878 g	JF	02-SEP-09	96.9530	97. %		
SC4978-3	SL	SAMP	WG68207	01-SEP-09	.973 g	2.886 g	2.773 g	JF	02-SEP-09	94.0930	94. %		
SC4995-4	SL	SAMP	WG68207	01-SEP-09	.986 g	5.755 g	5.516 g	JF	02-SEP-09	94.9880	95. %		
SC4995-5	SL	SAMP	WG68207	01-SEP-09	.986 g	6.082 g	5.277 g	JF	02-SEP-09	84.2030	84. %		
SC5092-29	SL	SAMP	WG68207	01-SEP-09	1.001 g	9.574 g	8.129 g	JF	02-SEP-09	83.1450	83. %		
SC5092-30	SL	SAMP	WG68207	01-SEP-09	.985 g	7.072 g	6.099 g	JF	02-SEP-09	84.0150	84. %		
SC5092-31	SL	SAMP	WG68207	01-SEP-09	1.012 g	6.495 g	5.569 g	JF	02-SEP-09	83.1110	83. %		
SC5092-32	SL	SAMP	WG68207	01-SEP-09	.999 g	10.865 g	8.999 g	JF	02-SEP-09	81.0860	81. %		
SC5122-1	SL	SAMP	WG68207	01-SEP-09	.958 g	5.005 g	3.127 g	JF	02-SEP-09	53.5950	54. %		
SC5125-1	SL	SAMP	WG68207	01-SEP-09	1.103 g	7.102 g	6.221 g	JF	02-SEP-09	85.3140	85. %		
SC5125-2	SL	SAMP	WG68207	01-SEP-09	1.148 g	5.547 g	3.864 g	JF	02-SEP-09	61.7410	62. %		
SC5125-3	SL	SAMP	WG68207	01-SEP-09	1.074 g	5.65 g	3.855 g	JF	02-SEP-09	60.7740	61. %		
WG68207-1	SL	MBLANK	WG68207	01-SEP-09	1.103 g	1.103 g	1.103 g	JF	02-SEP-09	0.0000	1 %		
WG68207-2	SL	LCS	WG68207	01-SEP-09	1.075 g	6.074 g	5.565 g	JF	02-SEP-09	89.8180	90. %	100	
WG68207-3	SL	LCSD	WG68207	01-SEP-09	1.091 g	6.08 g	5.575 g	JF	02-SEP-09	89.8780	90. %	100	0
WG68207-4	SL	DUP	WG68207	01-SEP-09	1.057 g	7.129 g	6.205 g	JF	02-SEP-09	84.7830	85. %		1
WG68207-5	SL	DUP	WG68207	01-SEP-09	.992 g	1.981 g	1.95 g	JF	02-SEP-09	96.8660	97. %		0

Comments:

SC5122-1	Verbals for metals only.
SC5125-1	PCBs and metals due 9/2. O&G and cn due 9/7.
WG68207-1	SC5125-1
WG68207-2	SC5125-1
WG68207-3	SC5125-1
WG68207-4	SC5125-1
WG68207-5	SC4978-2

Entered by: _____ Date: 9-2-09 Accepted by: _____ Date 09/02/09

Katahdin Analytical Services 5000030

KATAHDIN ANALYTICAL SERVICES, INC.

WG68207 R107743

TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID: SARTORIUS 8005012
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS THERM. ID: 1628
ANALYST IN:	ANALYST OUT:		
DATE IN: 9-1-09	DATE OUT: 9-2-09		
TIME IN: 1100	TIME OUT: 750		
TEMP IN: 105	TEMP OUT: 104		
Oven ID: 107N0042 FISHER	Muffle Oven ID:		
CHECKED BY:	DATE: 09/02/09		

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
2.0000	2.001	2.000
5.0000	5.001	5.000
10.0000	10.001	10.000
100.0000		

	SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
TVS	Blank WG68207-1	1	1.103	1.103	1.103		830
	LCS -2	2	1.075	6.074	5.565		831
	LCSD -3	3	1.091	6.080	5.575		832
	SC5125-1	4	1.103	7.102	6.221		833
	D1 WG68207 -4 -1	5	1.057	7.129	6.205		834
	-2	6	1.148	5.647	3.864		835
	-3	7	1.074	5.650	3.855		836
TVS	SC5122-1B	8	0.958	5.005	3.127		837
	SC5092-2B	9	1.009	9.674	8.129		838
	-3B	10	0.985	7.072	6.099		839
	-4B	11	1.012	6.495	~~5.569~~ 5.569 9209W		840
	-3B	12	0.999	10.865	8.999		841
	SC4978-1A	13	0.991	2.094	2.069		842
	-2A	14	0.987	1.906	1.878		843
	D1 WG68207-5 -2B	15	0.992	1.981	1.950		844
	-3A	16	0.993	2.886	2.773		845
	SC4856-1A	17	0.990	7.364	6.148		846
	-2A	18	0.995	8.884	6.764 9207W		847
	-3B	19	0.995	10.115	~~8.120~~ 8.490		848
	-4B	20	0.990	6.575	5.054		849
	-5B	21	1.006	6.452	5.295		850
	SC4995-4A	22	0.986	5.758	5.516		851
	-5A	23	0.986	6.082	5.277		852

Katahdin Analytical Services 5000031

0000022

TOTAL SOLIDS BATCH REPORT
Sep 11 2009, 09:14 am
Batch: WG68529

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SC4941-1	SL	SAMP	WG68529	10-SEP-09	.986 g	8.825 g	7.67 g	KT	11-SEP-09	85.2660	85. %		
SC4941-2	SL	SAMP	WG68529	10-SEP-09	.979 g	11.598 g	10.042 g	KT	11-SEP-09	85.3470	85. %		
SC4941-3	SL	SAMP	WG68529	10-SEP-09	.985 g	7.661 g	7.571 g	KT	11-SEP-09	98.6520	99. %		
SC4941-4	SL	SAMP	WG68529	10-SEP-09	.991 g	10.229 g	8.803 g	KT	11-SEP-09	84.5640	84. %		
SC5031-1	SL	SAMP	WG68529	10-SEP-09	.986 g	12.685 g	9.065 g	KT	11-SEP-09	69.0570	69. %		
SC5031-2	SL	SAMP	WG68529	10-SEP-09	.973 g	13.613 g	11.152 g	KT	11-SEP-09	80.5300	80. %		
SC5031-3	SL	SAMP	WG68529	10-SEP-09	.961 g	14.381 g	11.549 g	KT	11-SEP-09	78.8970	79. %		
SC5031-4	SL	SAMP	WG68529	10-SEP-09	.982 g	9.199 g	7.622 g	KT	11-SEP-09	80.8080	81. %		
SC5031-5	SL	SAMP	WG68529	10-SEP-09	.985 g	8.214 g	6.437 g	KT	11-SEP-09	75.4180	75. %		
SC5031-6	SL	SAMP	WG68529	10-SEP-09	.954 g	7.553 g	6.169 g	KT	11-SEP-09	79.0270	79. %		
SC5031-7	SL	SAMP	WG68529	10-SEP-09	.963 g	7.374 g	6.269 g	KT	11-SEP-09	82.7640	83. %		
SC5281-1	SL	SAMP	WG68529	10-SEP-09	.973 g	5.036 g	2.796 g	KT	11-SEP-09	44.8680	45. %		
SC5281-2	SL	SAMP	WG68529	10-SEP-09	.996 g	4.34 g	2.812 g	KT	11-SEP-09	54.3060	54. %		
SC5281-3	SL	SAMP	WG68529	10-SEP-09	.992 g	4.992 g	3.427 g	KT	11-SEP-09	60.8750	61. %		
SC5281-4	SL	SAMP	WG68529	10-SEP-09	.995 g	4.781 g	3.367 g	KT	11-SEP-09	62.6520	63. %		
SC5293-1	SL	SAMP	WG68529	10-SEP-09	.967 g	13.165 g	12.645 g	KT	11-SEP-09	95.7370	96. %		
SC5325-1	SL	SAMP	WG68529	10-SEP-09	1.004 g	15.201 g	12.692 g	KT	11-SEP-09	82.3270	82. %		
WG68529-1	SL	MBLANK	WG68529	10-SEP-09	.998 g	.998 g	.999 g	KT	11-SEP-09	0.1000	1 %		
WG68529-2	SL	LCS	WG68529	10-SEP-09	1.012 g	6.054 g	5.552 g	KT	11-SEP-09	90.0440	90. %	100	
WG68529-3	SL	DUP	WG68529	10-SEP-09	1.017 g	9.974 g	8.387 g	KT	11-SEP-09	82.2820	82. %		0
WG68529-4	SL	LCSD	WG68529	10-SEP-09	.995 g	6.957 g	6.447 g	KT	11-SEP-09	91.4460	91. %	102	2
WG68529-5	SL	DUP	WG68529	10-SEP-09	.974 g	6.804 g	5.752 g	KT	11-SEP-09	81.9550	82. %		1

Comments:

SC4941-2	MS/MSD
SC5325-1	PCBs and metals due 9/11. O&G and cn due 9/14.
WG68529-1	SC5325-1
WG68529-2	SC5325-1
WG68529-3	SC5325-1
WG68529-4	SC5325-1
WG68529-5	SC5031-7

Entered by: KT Date: 09/11/09 Accepted by: D. Radeau Date: 9-14-09

Katahdin Analytical Services 5000032

KATAHDIN ANALYTICAL SERVICES, INC. W G68529

TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID:
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS

ANALYST IN: KT	ANALYST OUT: KT	TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
DATE IN: 09/10/09	DATE OUT: 09/11/09			
TIME IN: 17:00	TIME OUT: 8:15	2.0000	2.000	1.999
TEMP IN: 103	TEMP OUT: 103	5.0000	5.000	5.000
Oven ID:	Muffle Oven ID:	10.0000	10.002	10.002
CHECKED BY: DR	DATE: 9-14-09	100.0000		

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
BLANK	1	0.998	0.998	0.999		08:45
LCS	2	1.012	6.054	5.552		
LCSD	3	0.995	6.957	6.447		
SC5325-1	4	1.004	15.201	12.692		
-1 Dup	5	1.017	9.974	8.387		08:46
SC5281-1	6	0.973	5.036	2.796		
-2	7	0.996	4.340	2.812		
-3	8	0.992	4.992	3.427		08:47
-4	9	0.995	4.781	3.367		
SC5283-1	10	0.967	13.165	12.645		
SC5031-1	11	0.986	12.685	9.065		
-2	12	0.973	13.613	11.152		08:48
-3	13	0.961	14.381	11.549		
-4	14	0.982	9.199	~~6.269~~ 7.622		
-5	15	0.985	8.214	6.437		
-6	16	0.954	7.552	6.169		
-7	17	0.963	7.374	6.269		08:49
-7 Dup	18	0.974	6.804	5.752		
SC4944-1	19	0.986	8.825	7.670		
-2	20	0.979	11.598	10.042		08:50
-3	21	0.985	7.661	7.591		
-4	22	0.991	10.229	8.803		

QAWL555

Katahdin Analytical Services 5000033

TOTAL SOLIDS BATCH REPORT
Sep 14 2009, 12:45 pm
Batch: WG68620

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
SC4995-1	SL	SAMP	WG68620	11-SEP-09	.981 g	5.729 g	5.431 g	KT	14-SEP-09	93.7240	94. %		
SC4995-10	SL	SAMP	WG68620	11-SEP-09	.978 g	8.293 g	7.293 g	KT	14-SEP-09	86.3290	86. %		
SC4995-2	SL	SAMP	WG68620	11-SEP-09	.988 g	12.933 g	10.774 g	KT	14-SEP-09	81.9250	82. %		
SC4995-3	SL	SAMP	WG68620	11-SEP-09	1.014 g	9.512 g	8.02 g	KT	14-SEP-09	82.4430	82. %		
SC4995-6	SL	SAMP	WG68620	11-SEP-09	1.016 g	9.321 g	9.061 g	KT	14-SEP-09	96.8690	97. %		
SC4995-7	SL	SAMP	WG68620	11-SEP-09	1.001 g	7.258 g	6.903 g	KT	14-SEP-09	94.3260	94. %		
SC4995-8	SL	SAMP	WG68620	11-SEP-09	.991 g	9.919 g	9.123 g	KT	14-SEP-09	91.0840	91. %		
SC4995-9	SL	SAMP	WG68620	11-SEP-09	.995 g	8.903 g	8.623 g	KT	14-SEP-09	96.4590	96. %		
SC5041-1	SL	SAMP	WG68620	11-SEP-09	.98 g	6.578 g	6.302 g	KT	14-SEP-09	95.0700	95. %		
SC5041-2	SL	SAMP	WG68620	11-SEP-09	.99 g	10.804 g	10.033 g	KT	14-SEP-09	92.1440	92. %		
SC5041-3	SL	SAMP	WG68620	11-SEP-09	.981 g	5.896 g	5.416 g	KT	14-SEP-09	90.2340	90. %		
SC5041-4	SL	SAMP	WG68620	11-SEP-09	1.017 g	12.954 g	10.826 g	KT	14-SEP-09	82.1730	82. %		
SC5204-1	SL	SAMP	WG68620	11-SEP-09	1.005 g	12.647 g	4.553 g	KT	14-SEP-09	30.4760	30. %		
SC5221-1	SL	SAMP	WG68620	11-SEP-09	.99 g	8.158 g	1.286 g	KT	14-SEP-09	4.1290	4.1 %		
SC5221-2	SL	SAMP	WG68620	11-SEP-09	1.008 g	5.06 g	1.25 g	KT	14-SEP-09	5.9720	6.0 %		
SC5221-3	SL	SAMP	WG68620	11-SEP-09	1.015 g	9.843 g	1.447 g	KT	14-SEP-09	4.8940	4.9 %		
SC5221-4	SL	SAMP	WG68620	11-SEP-09	.992 g	5.364 g	1.209 g	KT	14-SEP-09	4.9630	5.0 %		
SC5221-5	SL	SAMP	WG68620	11-SEP-09	1.006 g	11.191 g	1.374 g	KT	14-SEP-09	3.6130	3.6 %		
WG68620-1	SL	MBLANK	WG68620	11-SEP-09	.993 g	.993 g	.993 g	KT	14-SEP-09	0.0000	1 %		
WG68620-2	SL	LCS	WG68620	11-SEP-09	.976 g	7.186 g	6.684 g	KT	14-SEP-09	91.9160	92. %	102	
WG68620-3	SL	DUP	WG68620	11-SEP-09	.978 g	6.524 g	6.049 g	KT	14-SEP-09	91.4350	91. %		0
WG68620-4	SL	DUP	WG68620	11-SEP-09	1 g	7.58 g	6.387 g	KT	14-SEP-09	81.8690	82. %		0

Comments:

SC4995-3	MS/MSD
SC4995-8	MS/MSD
WG68620-1	SC4995-8
WG68620-2	SC4995-8
WG68620-3	SC4995-8
WG68620-4	SC5041-4

Entered by: KT Date: ~~0944~~ 09/14/09 Accepted by: [signature] Date: 09/16/09

Katahdin Analytical Services 5000034

KATAHDIN ANALYTICAL SERVICES, INC.

WG68620

TOTAL SOLIDS: ASTM D2216		PQL: 0.10%	BALANCE ID:
TOTAL VOLATILE SOLIDS: SM2540 G	E160.4	PQL: 0.10%	ASTM CLASS 1 WEIGHTS
ANALYST IN: KT	ANALYST OUT: KT		
DATE IN: 091109	DATE OUT: 091409		
TIME IN: 16:40	TIME OUT: 8:00		
TEMP IN: 104	TEMP OUT: 98°C		
Oven ID:	Muffle Oven ID:		
CHECKED BY: [illegible]	DATE: 09/16/09		

TRUE WT (g)	INITIAL WT (g)	FINAL WT (g)
2.0000	1.999	1.999
5.0000	5.000	5.000
10.0000	10.002	10.000
100.0000		

SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)	DISH DRY WT (g)	DISH/ASH WT (g)	TIME
BLANK	1	0.993	0.993	0.993	NA	10:08
LCS	2	0.996	7.186	6.684		
SC4595-1	3	0.981	5.729	5.43		
-2	4	0.988	12.933	10.774		:09
-3	5	1.014	9.572	8.020		
~~-4~~ KT	6					KT
~~-5~~	7					
-6	8	1.016	9.321	9.061		:10
-7	9	1.001	7.258	6.903		
-8	10	0.991	9.919	9.123		
-8 Dup	11	0.978	6.524	6.049		
-9	12	0.995	8.903	8.623		:11
-10	13	0.978	8.293	7.793		
SC5041-1	14	0.980	6.578	6.302		
-2	15	0.990	10.804	10.033		
-3	16	0.981	5.896	~~KT 8.26~~ 5.416		
-4	17	1.017	12.954	10.826		:12
-4 Dup	18	1.000	7.580	6.387		
SC5204-1	19	1.005	12.647	4.653		
SC5221-1	20	0.990	8.158	1.286		:13
-2	21	1.008	5.060	1.250		
-3	22	1.015	9.843	1.447		
-4	23	0.992	5.364	1.209		:14
-5	24	1.006	11.191	1.374		

Katahdin Analytical Services 5000035

0000030