LABORATORY REPORT

June 16, 2010

Brian Baker
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

RE: 17131

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on May 21, 2010. For your reference, these analyses have been assigned our service request number P1001783.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 54 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA; Washington State Department of Ecology, ELAP Lab ID: C946. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.

Sue Anderson
Project Manager

Client: Environmental Health & Engineering, Inc. CAS Project No: P1001783
Project: 17131

CASE NARRATIVE

The samples were received intact under chain of custody on May 21, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Orthorhombic Cycloostasulfur Analysis

A portion of the wallboard samples was prepared and analyzed for orthorhombic cyclooctasulfur according to CAS AQL 103A using a gas chromatograph equipped with an electron capture detector (ECD).

The surrogate Hexabromobenzene was outside control criteria in Duplicate Laboratory Control Sample (DLCS) due to analyst error. During the preparation it was determined that the duplicate laboratory control sample was double spiked. The sample results were not affected by this anomaly. The other method controls, LCS surrogate and sample surrogate, met acceptance criteria; therefore, the data was approved.

The spike recovery in the Batch QC Matrix Spike (MS) was outside the lower control criterion due to matrix interference. No corrective action was appropriate.

The results for the samples in this delivery group are indicative of non-suspect wallboard.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Environmental Health & Engineering, Inc.
Project: 17131

Service Request: P1001783

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
P1001783-001	111136	5/20/10	00:00
P1001783-002	111137	5/20/10	00:00
P1001783-003	111138	5/20/10	00:00

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 5/20/10

FROM: Environmental Health and Engineering, Inc.
60 Wells Avenue
Newton, MA 02459-3210

P1001783

TO: Columbia Analytical Services

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 17131

The cost of this analysis will be covered by EH&E Purchase Order # 17131

For EH & E Data Coordinator - URGENT DATA ☐

	SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
1	111136	Drywall	GC/ECD	5/20/10 Apx. 1.2g
2	111137	"	"	"
3	111138	"	"	"

Special instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 617-964-8556

☐ **RETURN SAMPLES**

☒ Electronic transfer - datacoodinator@eheinc.com

☒ Additional report recipient tmineqishi@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: Tran Truong of Environmental Health & Engineering, Inc. Date: 5/20/10

Received by: _____ of (company name) CAS Date: 5/21/10 0925

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Relinquished by: _____ of (company name) _____ Date: _____

Received by: _____ of (company name) _____ Date: _____

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Page 1 of 1

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Columbia Analytical Services, Inc.

Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc. Work order: P1001783

Project: 17131

Sample(s) received on: 5/21/2010 Date opened: 5/21/2010 by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Container(s) **supplied by CAS**?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Was a **chain-of-custody** provided?	☒	☐	☐
5	Was the **chain-of-custody** properly completed?	☒	☐	☐
6	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
7	Was **sample volume** received adequate for analysis?	☒	☐	☐
8	Are samples within specified holding times?	☒	☐	☐
9	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature _____ °C Blank Temperature _____ °C			
10	Was a **trip blank** received?	☐	☐	☒
	Trip blank supplied by CAS: _____			
11	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
12	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
13	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
14	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001783-001.01	40mL VOA NP					
P1001783-002.01	40mL VOA NP					
P1001783-003.01	40mL VOA NP					

Explain any discrepancies: (include lab sample ID numbers): _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF ORTHORHOMBIC CYCLOOCTASULFUR ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Environmental Health & Engineering, Inc.**
Client Project ID: **17131** CAS Project ID: P1001783

Orthorhombic Cyclooctasulfur

Test Code: CAS AQL 103A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: Wallboard
Test Notes:

Date Received: 5/21/10
Date Extracted: 5/26/10
Date Analyzed: 5/26/10

Client Sample ID	CAS Sample ID	Sample Amount Gram(s)	Extract Volume ml(s)	Dilution Factor	**Result mg/Kg**	LOQ mg/Kg	Data Qualifier
111136	P1001783-001	1.00	5.0	1.00	ND	5.0	
111137	P1001783-002	1.00	5.0	1.00	ND	5.0	
111138	P1001783-003	1.00	5.0	1.00	ND	5.0	
Negative Control Sample	P100526-NCS	1.00	5.0	1.00	ND	5.0	

ND = Compound was analyzed for, but not detected above the limit of quantitation.
LOQ = Limit of Quantitation.
According to the Florida Department of Health (http://www.doh.state.fl.us/environment/community/indoor-air/casedefinition.html, 1/5/2010), a positive result above 10 mg/kg is indicative of corrosive drywall.
A positive result between 5-10 mg/kg is inconclusive; further testing may be warranted.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Client Sample ID	CAS Sample ID	Spike Amount LCS / DLCS mg/Kg	Result LCS mg/Kg	Result DLCS mg/Kg	**% Recovery LCS**	**% Recovery DLCS**	CAS Acceptance Limits	RPD	RPD Limit	Data Qualifier
Dup Lab Control Sample	P100526-DLCS	44.7	50.0	49.5	112	111	70-130	1	20	

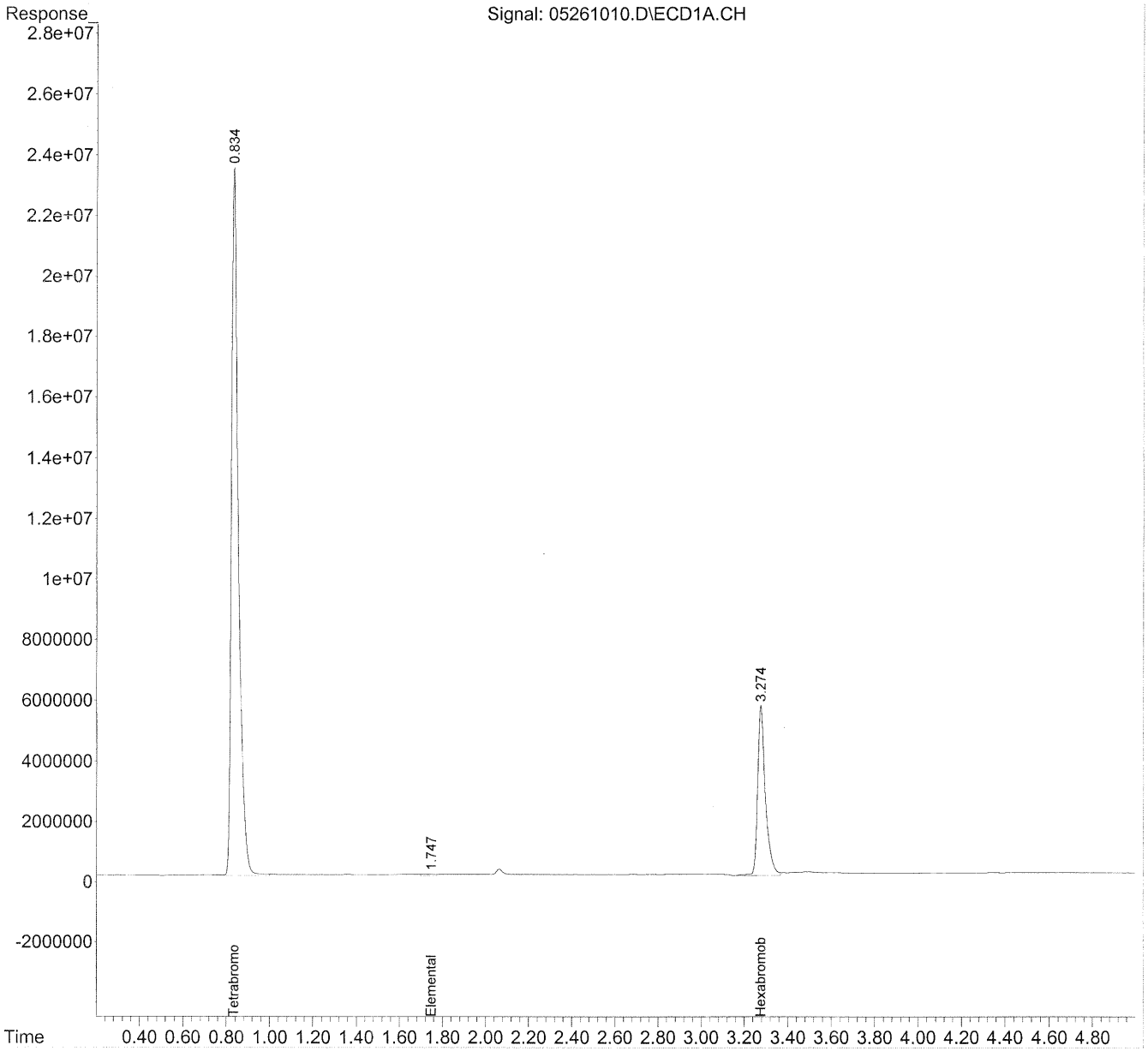
Verified By: _____ Date: 6/3/10

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261010.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:04 pm
Operator : HC
Sample : P1001783-001-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:22:57 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261010.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:04 pm
Operator : HC
Sample : P1001783-001-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:22:57 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.834	518833151	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.747	1979918	0.237 ug/ml
3)	Hexabromobenzene	3.275	139833610	12.008 ug/ml

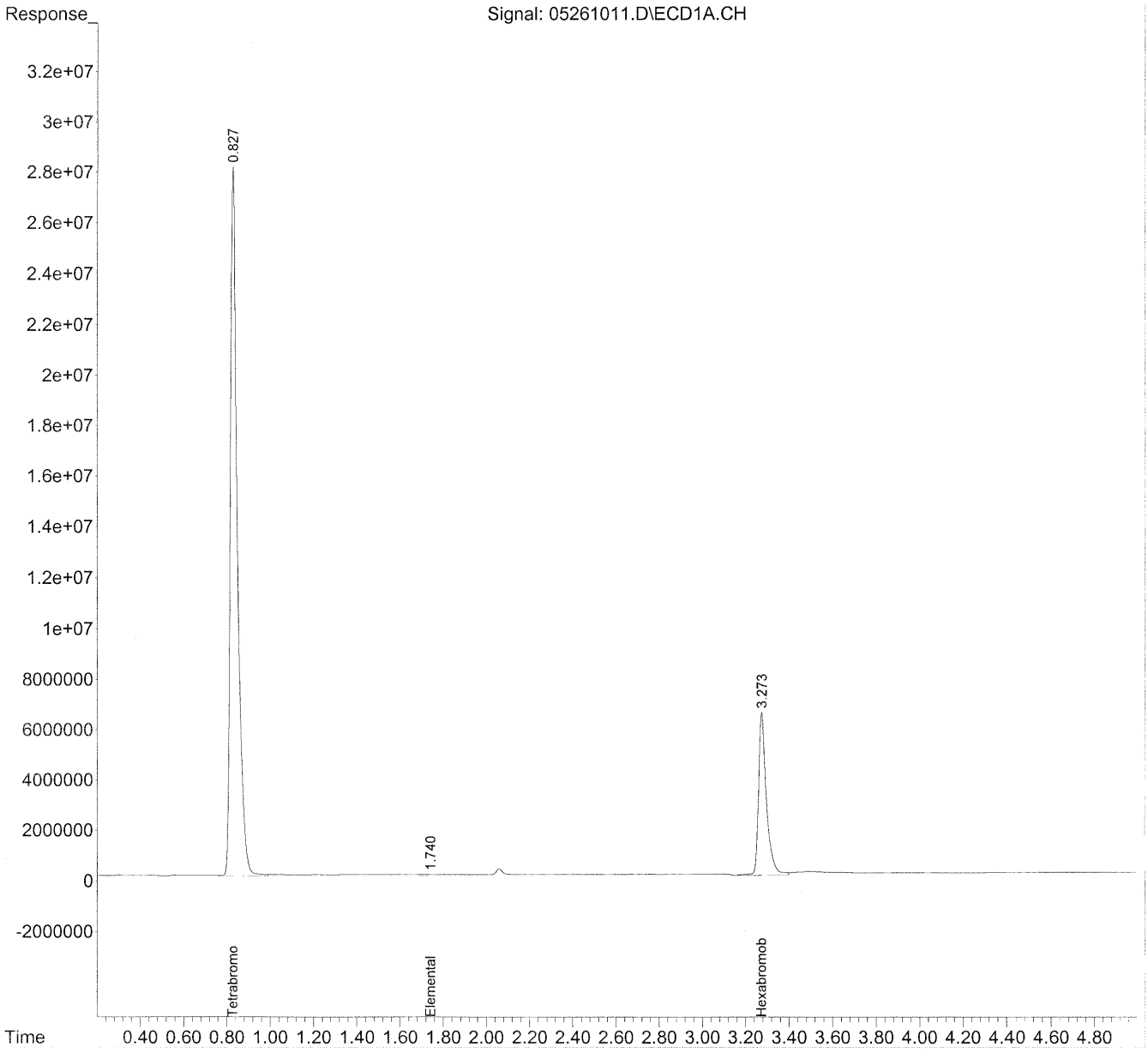
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261011.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:11 pm
Operator : HC
Sample : P1001783-002-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:23:09 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261011.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:11 pm
Operator : HC
Sample : P1001783-002-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 9 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:23:09 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.827	629772173	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.741	2335335	0.230 ug/ml
3)	Hexabromobenzene	3.273	164694097	11.651 ug/ml

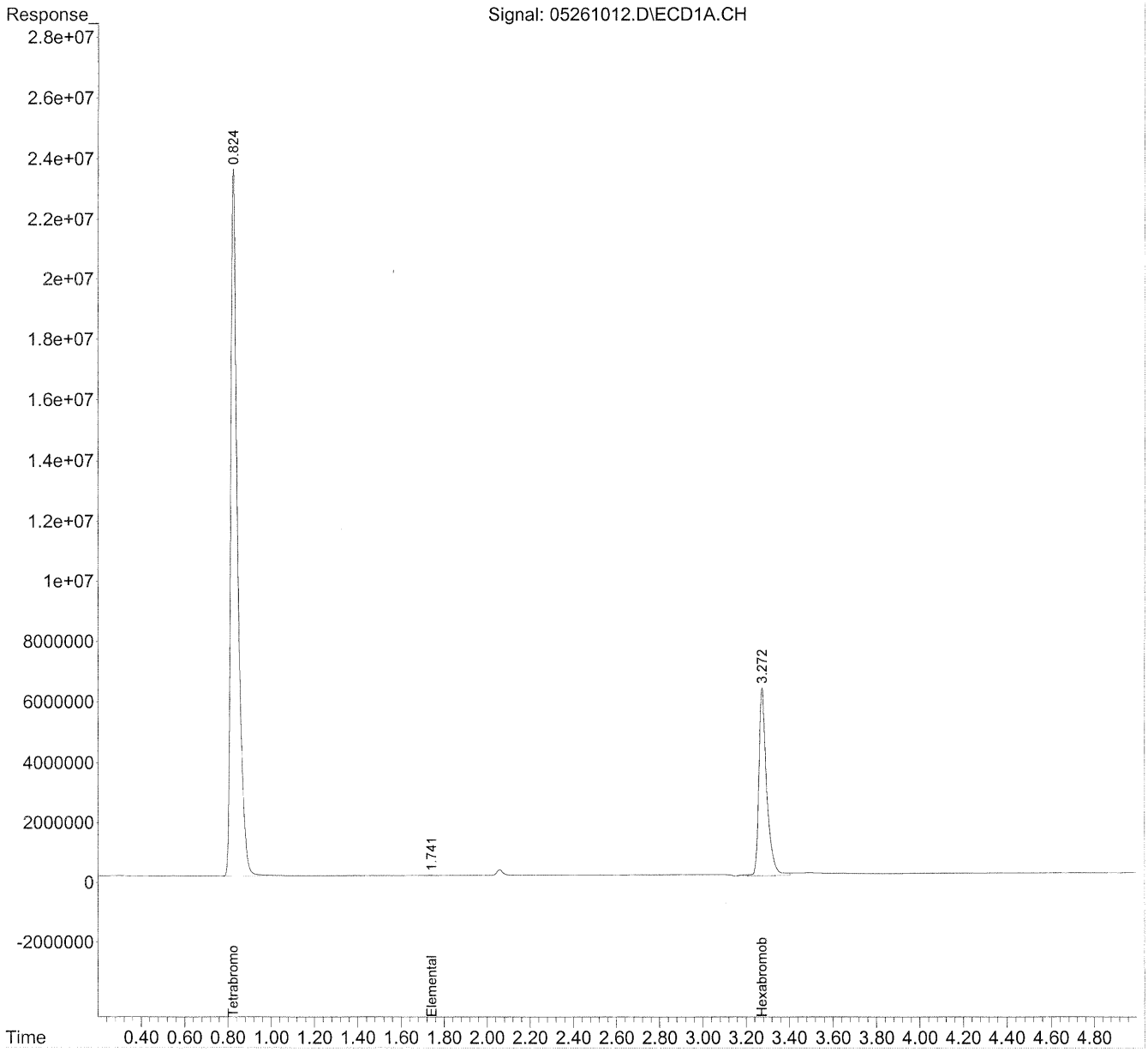
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261012.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:18 pm
Operator : HC
Sample : P1001783-003-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:23:25 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261012.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:18 pm
Operator : HC
Sample : P1001783-003-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 10 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 10:23:25 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.825	519428259	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.741	1451543	0.173 ug/ml
3)	Hexabromobenzene	3.273	159061071	13.643 ug/ml

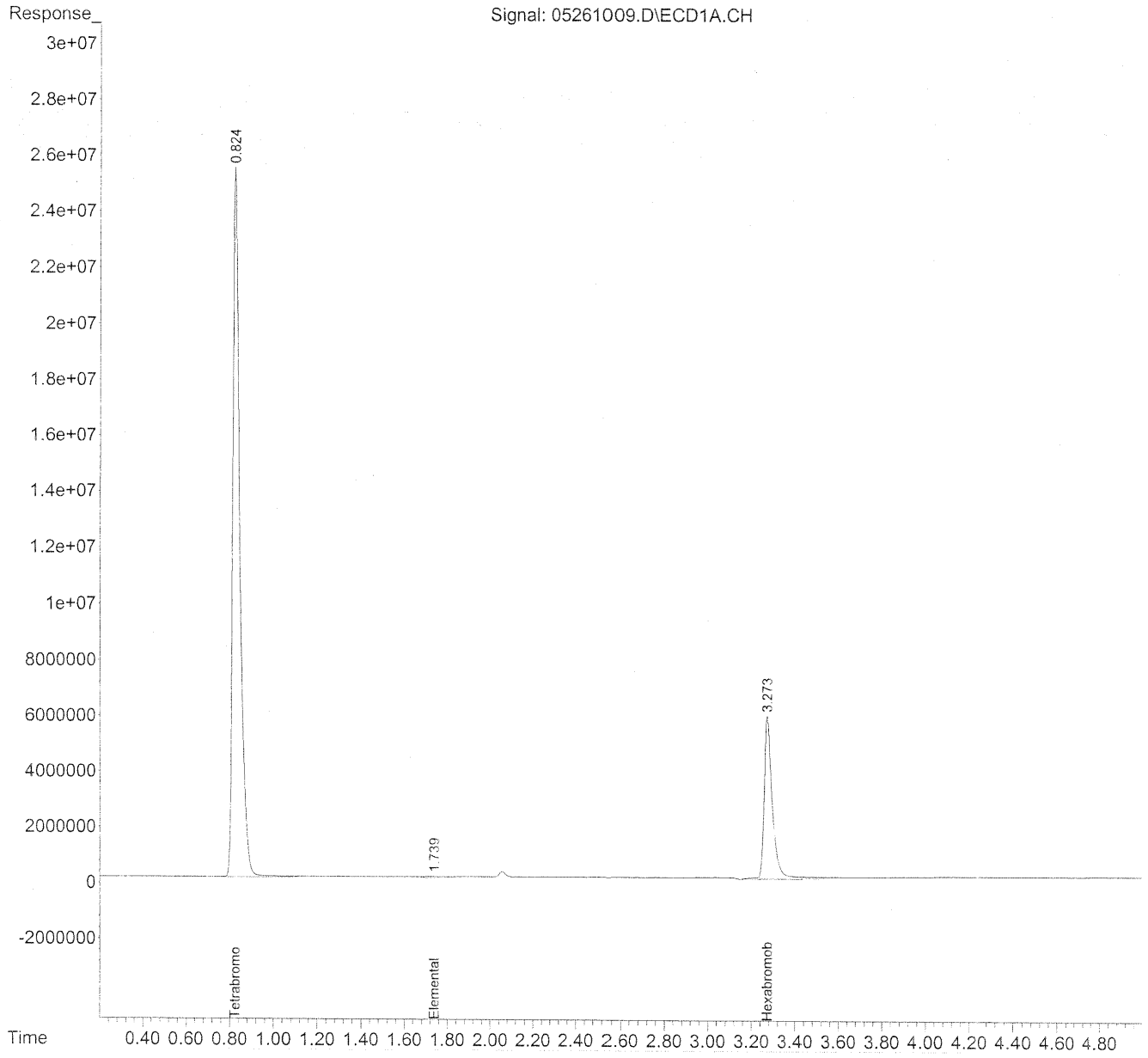
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261009.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:57 pm
Operator : HC
Sample : NegativeControl-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 17:06:53 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261009.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:57 pm
Operator : HC
Sample : NegativeControl-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 17:06:53 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.825	559714959	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.740	1955025	0.217 ug/ml
3)	Hexabromobenzene	3.273	154528148	12.301 ug/ml

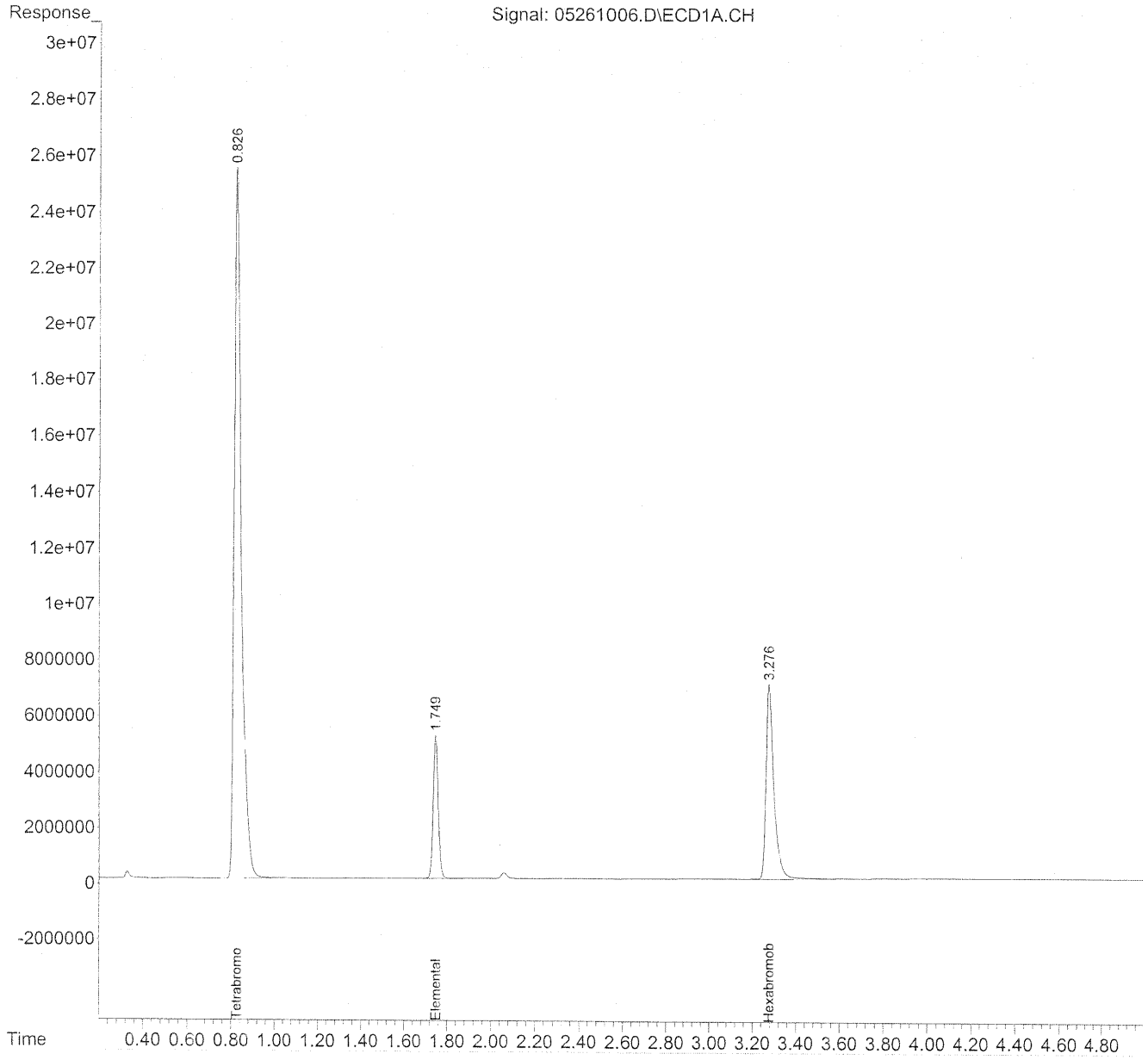
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261006.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:37 pm
Operator : HC
Sample : SS-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 16:48:30 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261006.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:37 pm
Operator : HC
Sample : SS-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 16:48:30 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

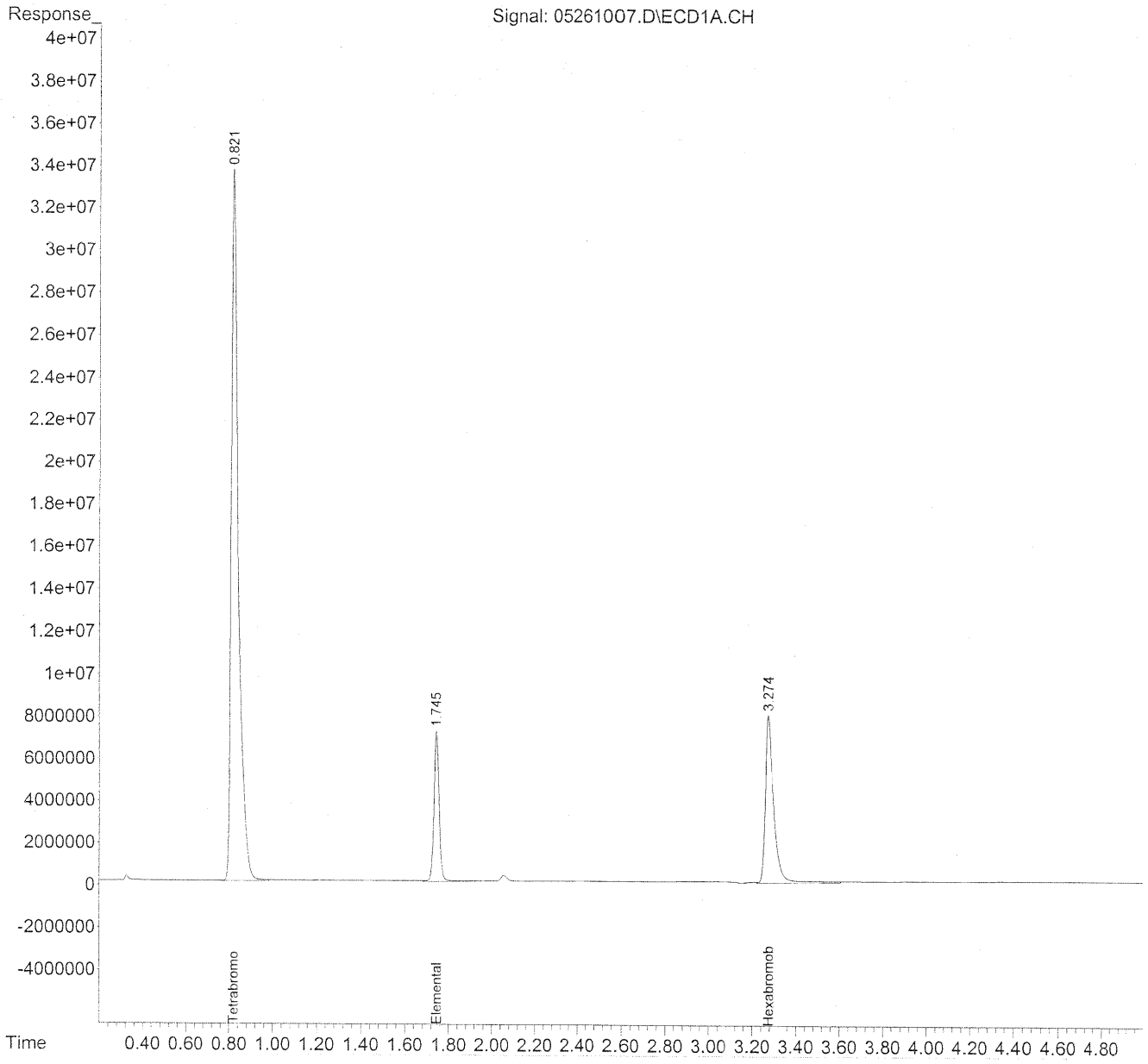
Compound	R.T.	Response	Conc Units
Internal Standards			
1) Tetrabromobenzene	0.826	575848350	20.000 ug/ml
Target Compounds			
2) Elemental Sulfur	1.750	83077040	8.943 ug/ml
3) Hexabromobenzene	3.276	175722841	13.596 ug/ml
SemiQuant Compounds - Not Calibrated on this Instrument			

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261007.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:44 pm
Operator : HC
Sample : LCS-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 16:57:11 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261007.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:44 pm
Operator : HC
Sample : LCS-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 16:57:11 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.822	754019929	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.745	121514254	9.990 ug/ml
3)	Hexabromobenzene	3.275	212335802	12.547 ug/ml

SemiQuant Compounds - Not Calibrated on this Instrument

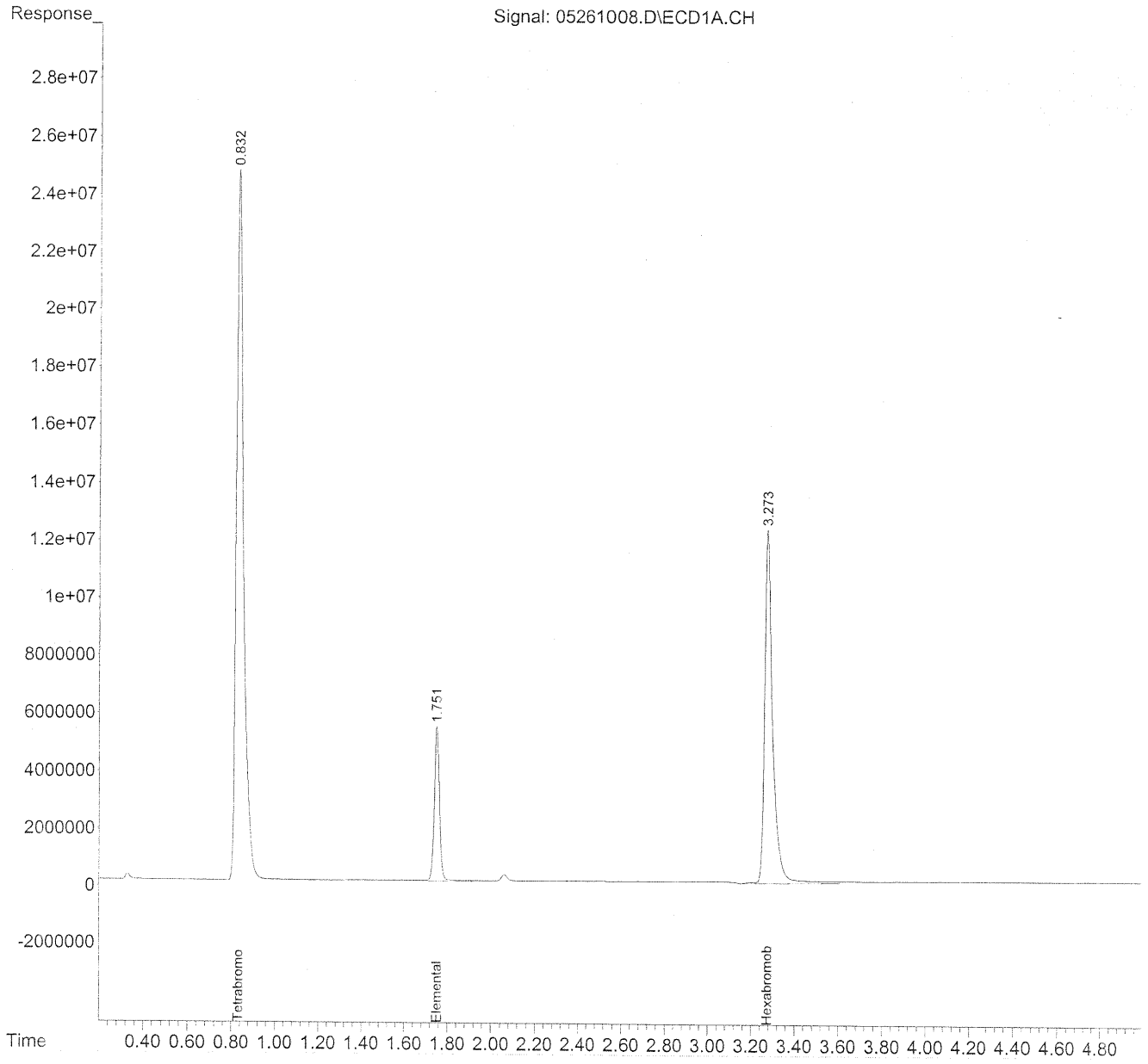
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261008.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:50 pm
Operator : HC
Sample : LCSD-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 17:01:17 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261008.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 4:50 pm
Operator : HC
Sample : LCSD-ext.5/26/10 fv=5ml
Misc : GC/ECD method S8
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 17:01:17 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.832	572894001	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.751	91410636	9.891 ug/ml
3)	Hexabromobenzene	3.274	321010350	24.965 ug/ml

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

INITIAL CALIBRATION STANDARDS

Response Factor Report GC06

Method Path : J:\GC06\METHODS\
Method File : S8051910.M
Title : Elemental Sulfur by GC\ECD
Last Update : Wed May 19 16:45:50 2010
Response Via : Initial Calibration

Calibration Files
10.0 =05191008.D 1.0 =05191006.D 5.0 =05191007.D
20.0 =05191009.D 50.0 =05191010.D 100 =05191011.D

	Compound	10.0	1.0	5.0	20.0	50.0	100	Avg	%RSD
1)	Tetrabromobenzene	ISTD							
2)	Elemental Sulfur	0.369	0.303	0.315	0.327	0.313	0.308	0.323	7.49
3)	Hexabromobenzene	0.507	0.509	0.442	0.445	0.409	0.382	0.449	11.45

(#) = Out of Range

< 20% JK 5/19/10

Calibration Status Report GC06

Method Path : J:\GC06\METHODS\
Method File : S8051910.M
Title : Elemental Sulfur by GC\ECD
Last Update : Wed May 19 16:45:50 2010
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	10.0	10	20	J:\GC06\DATA\S8\2010_05\19\05191008.D
2	1.0	1	20	J:\GC06\DATA\S8\2010_05\19\05191006.D
3	5.0	5	20	J:\GC06\DATA\S8\2010_05\19\05191007.D
4	20.0	20	20	J:\GC06\DATA\S8\2010_05\19\05191009.D
5	50.0	50	20	J:\GC06\DATA\S8\2010_05\19\05191010.D
6	100	100	20	J:\GC06\DATA\S8\2010_05\19\05191011.D

#	ID	Update Time	Quant Time	Acquisition Time
1	10.0	May 19 16:44 2010	May 19 16:44 2010	19 May 2010 11:00 am
2	1.0	May 19 16:44 2010	May 19 16:43 2010	19 May 2010 10:47 am
3	5.0	May 19 16:44 2010	May 19 16:44 2010	19 May 2010 10:54 am
4	20.0	May 19 16:45 2010	May 19 16:45 2010	19 May 2010 11:06 am
5	50.0	May 19 16:45 2010	May 19 16:45 2010	19 May 2010 11:13 am
6	100	May 19 16:45 2010	May 19 16:45 2010	19 May 2010 11:20 am

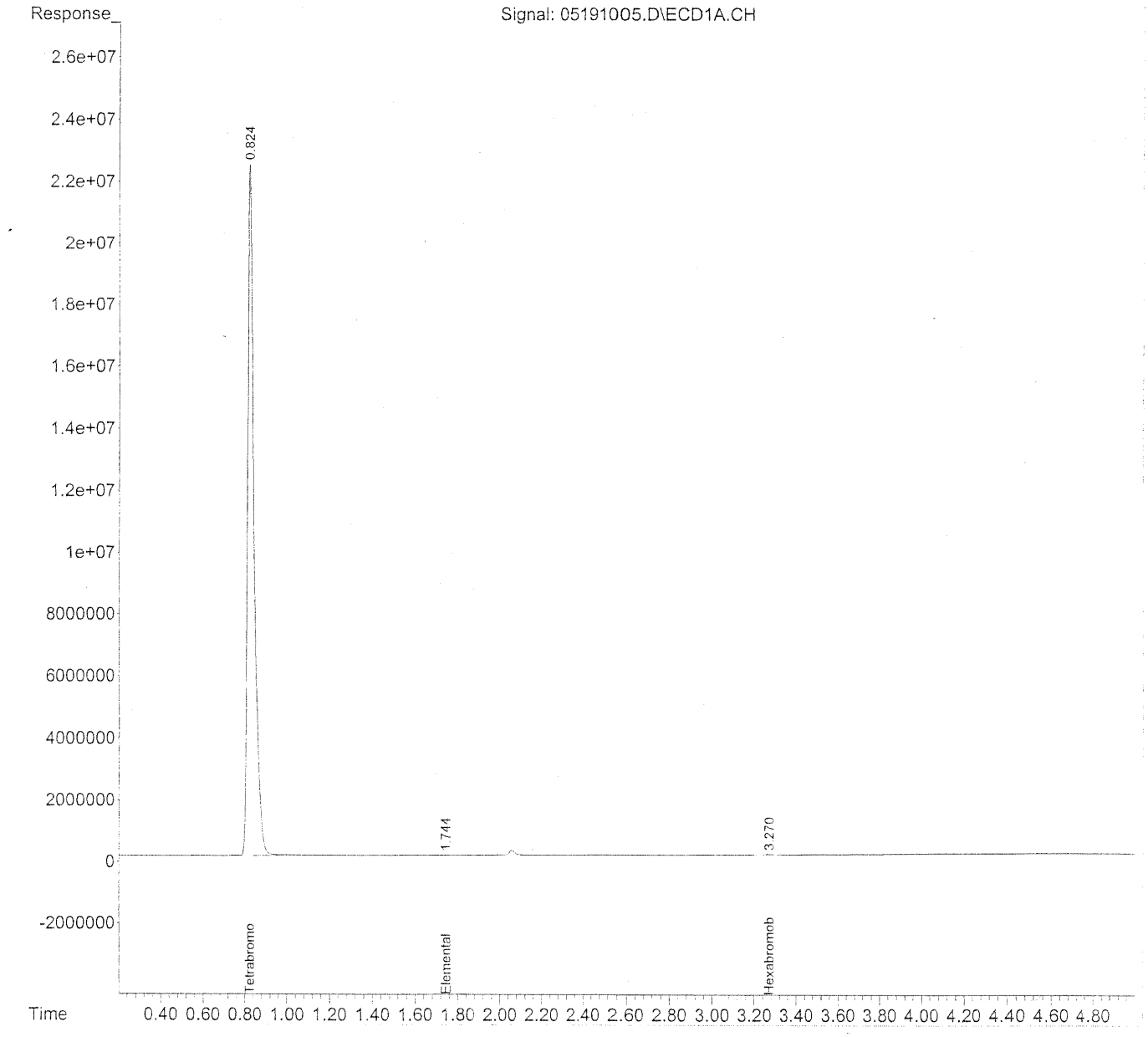
S8051910.M Wed May 19 16:46:31 2010

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191005.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:40 am
Operator : HC
Sample : 20ug/ml Tetrabromobenzene RB S21-05191001
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:47:02 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191005.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:40 am
Operator : HC
Sample : 20ug/ml Tetrabromobenzene RB S21-05191001
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:47:02 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.825	491018470	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.744	325997	0.041 ug/ml
3)	Hexabromobenzene	3.271	441580	0.040 ug/ml
SemiQuant Compounds - Not Calibrated on this Instrument				

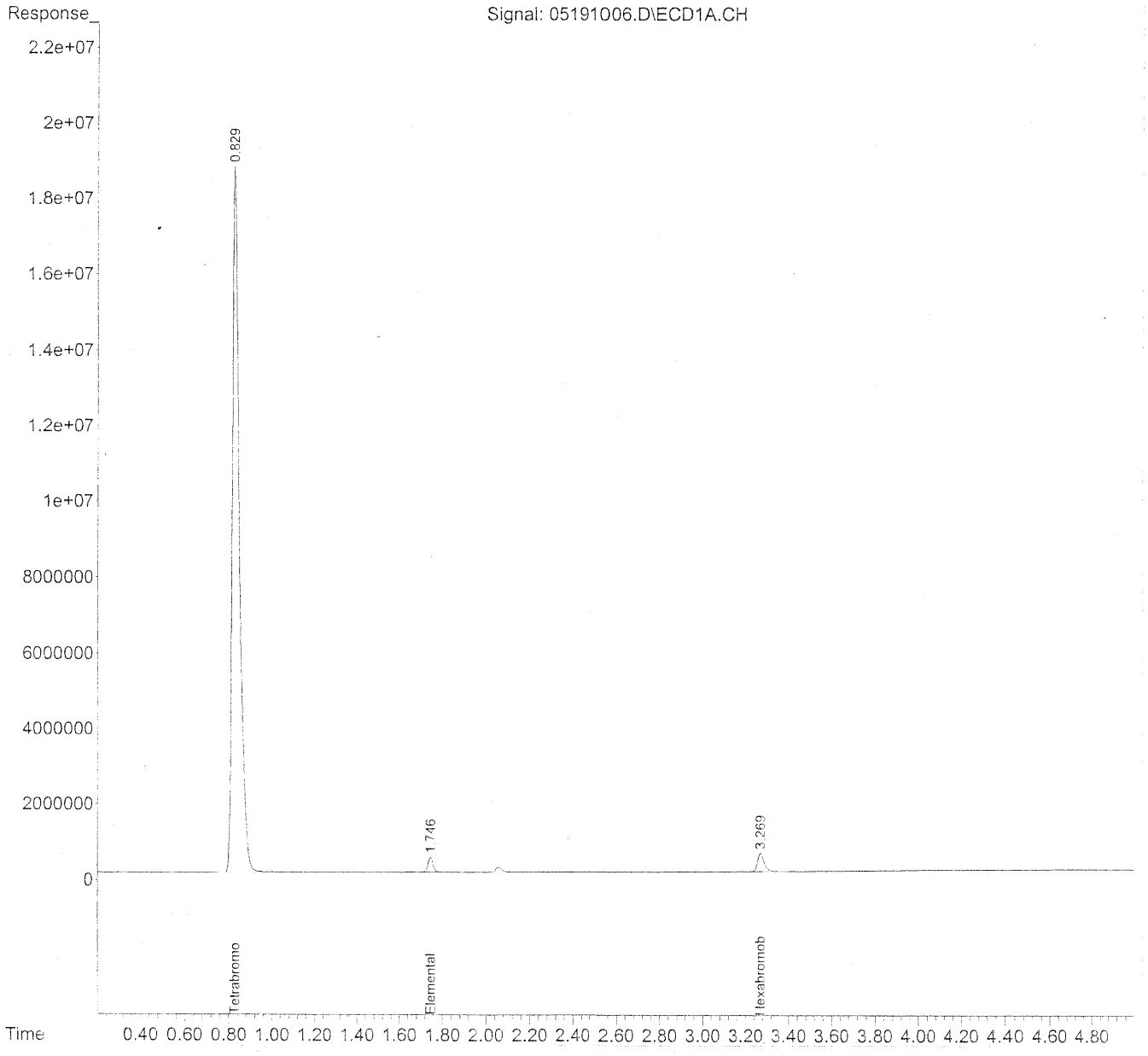
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191006.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:47 am
Operator : HC
Sample : 1ug/ml S8 Std S21-05191010
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:43:38 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 11:31:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191006.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:47 am
Operator : HC
Sample : 1ug/ml S8 Std S21-05191010
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:43:38 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 11:31:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

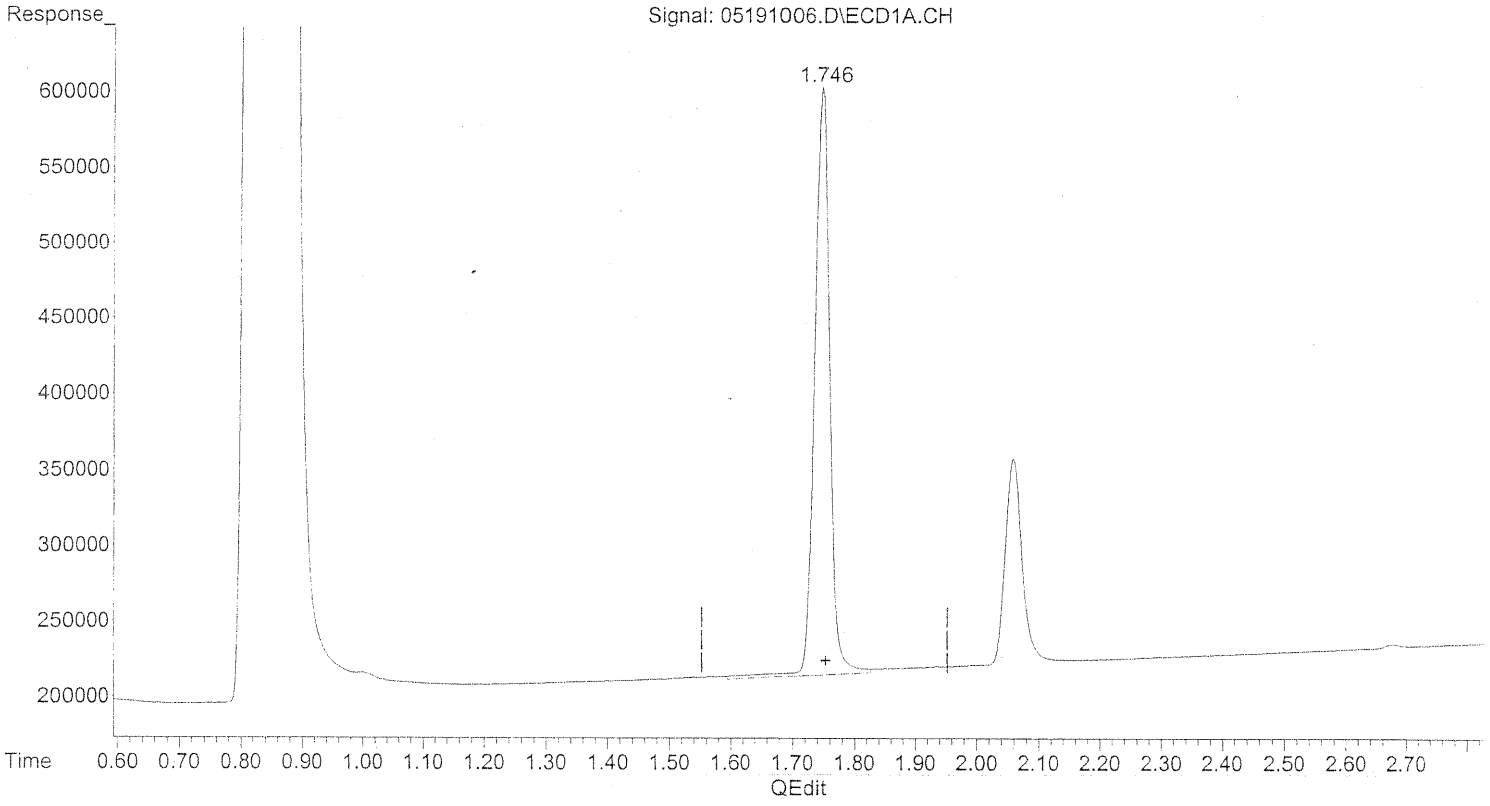
	Compound	R.T.	Response	Conc	Units
Internal Standards					
1)	Tetrabromobenzene	0.829	415113053	20.000	ug/ml
Target Compounds					
2)	Elemental Sulfur	1.746	6292937	0.939	ug/mlm
3)	Hexabromobenzene	3.270	10563367	1.132	ug/ml
SemiQuant Compounds - Not Calibrated on this Instrument					

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191006.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:47 am
Operator : HC
Sample : 1ug/ml S8 Std S21-05191010
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:40:54 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 11:31:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



(2) Elemental Sulfur
1.747min 0.979 ug/ml
response 6555884

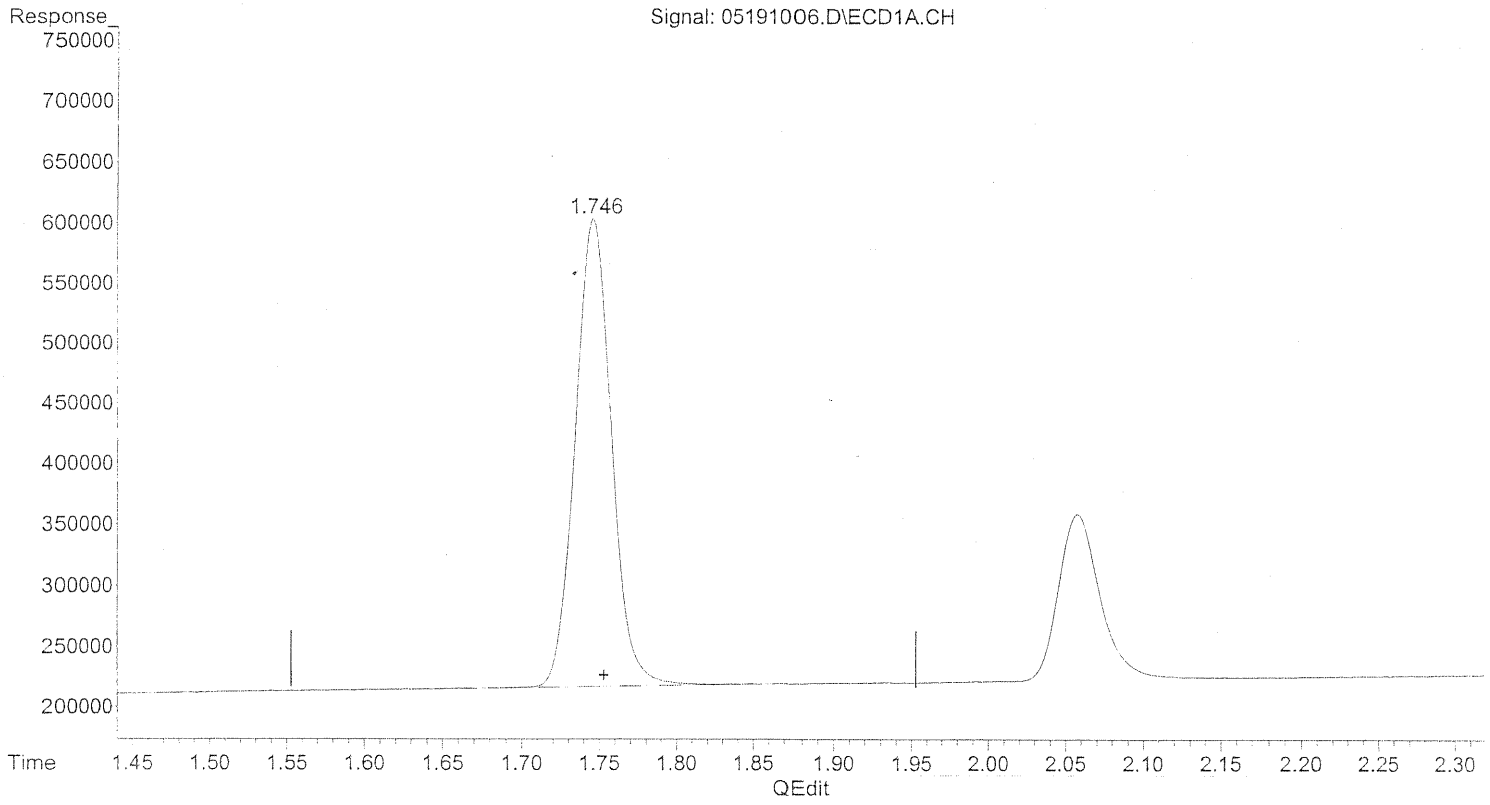
(+) = Expected Retention Time
S8051910.M Wed May 19 16:43:31 2010

Quantitation Report (Qedit)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191006.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:47 am
Operator : HC
Sample : 1ug/ml S8 Std S21-05191010
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:40:54 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 11:31:33 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



(2) Elemental Sulfur
1.746min 0.939 ug/ml m
response 6292937

5/20/10

HC 5/19/10

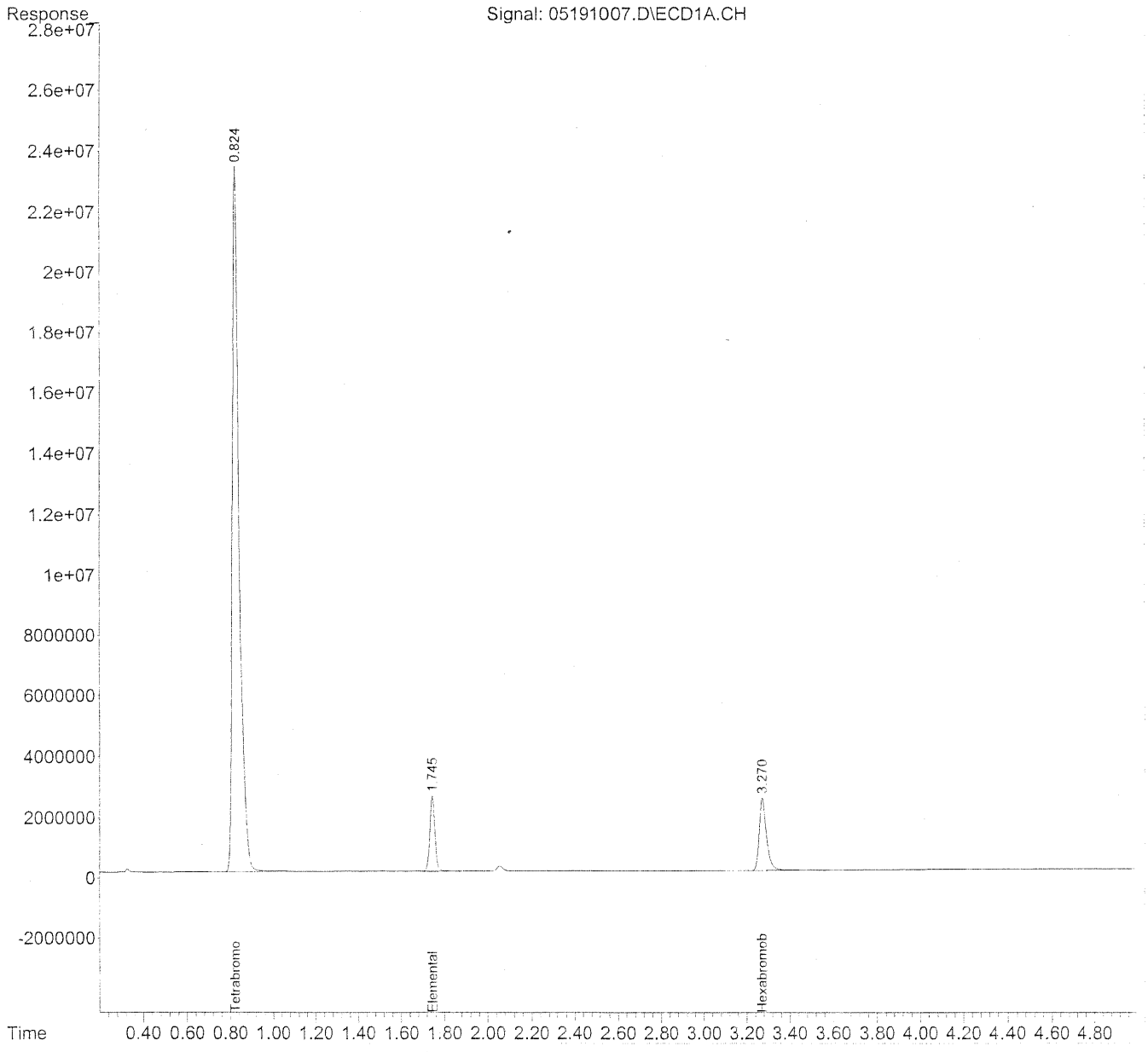
(+) = Expected Retention Time
S8051910.M Wed May 19 16:43:45 2010

Quantitation Report (Not Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191007.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:54 am
Operator : HC
Sample : 5ug/ml S8 Std S21-05191009
Misc : GC/ECD method S8
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:44:26 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (Not Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191007.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 10:54 am
Operator : HC
Sample : 5ug/ml S8 Std S21-05191009
Misc : GC/ECD method S8
ALS Vial : 3 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:44:26 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:03 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.824	519499449	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.745	40956003	4.887 ug/ml
3)	Hexabromobenzene	3.270	57398707	4.923 ug/ml

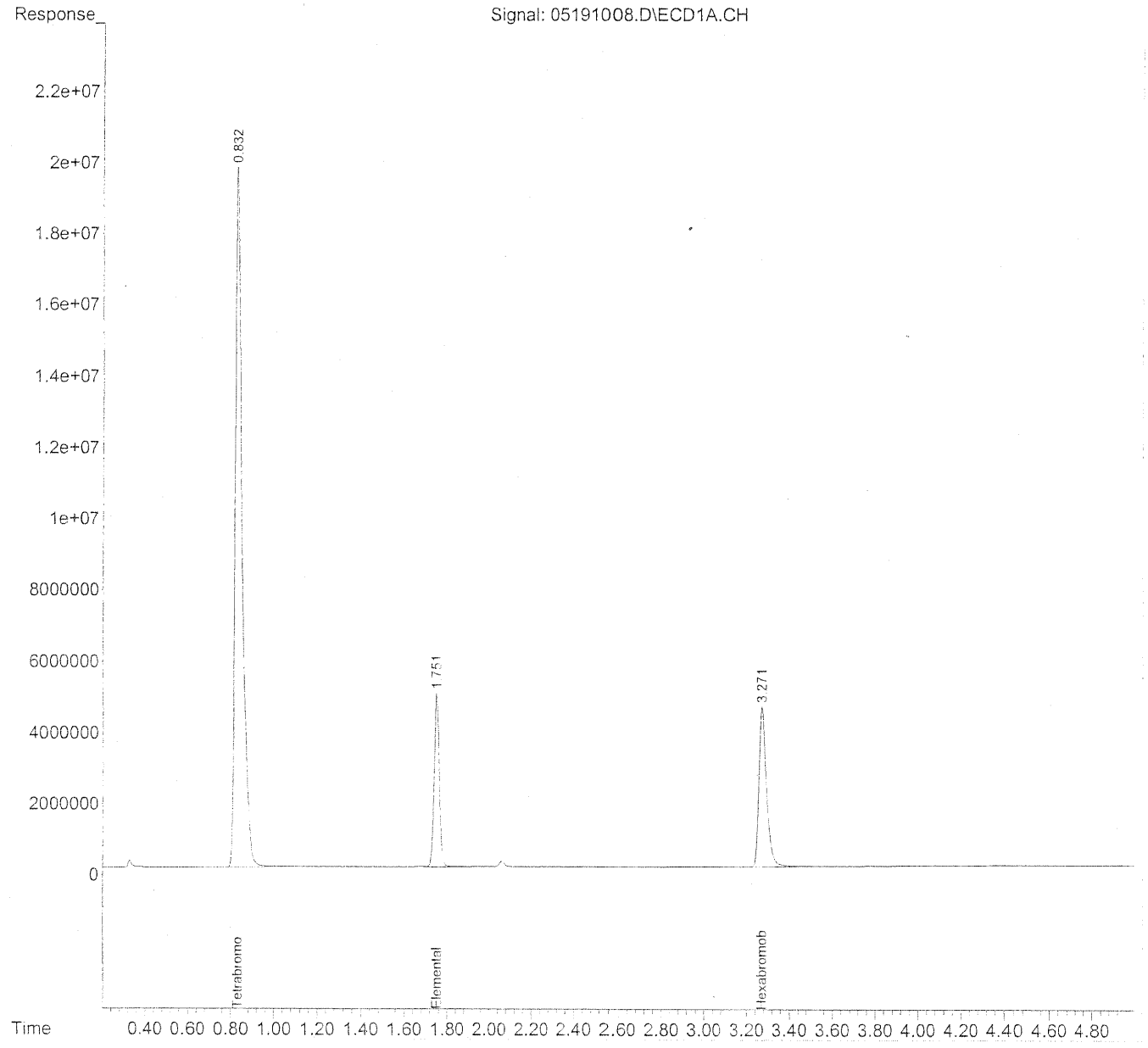
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191008.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:00 am
Operator : HC
Sample : 10ug/ml S8 Std S21-05191008
Misc : GC/ECD method S8
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:44:41 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:35 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191008.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:00 am
Operator : HC
Sample : 10ug/ml S8 Std S21-05191008
Misc : GC/ECD method S8
ALS Vial : 4 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:44:41 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:35 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.833	436626404	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.751	80613906	11.445 ug/ml
3)	Hexabromobenzene	3.272	110773538	11.303 ug/ml
SemiQuant Compounds - Not Calibrated on this Instrument				

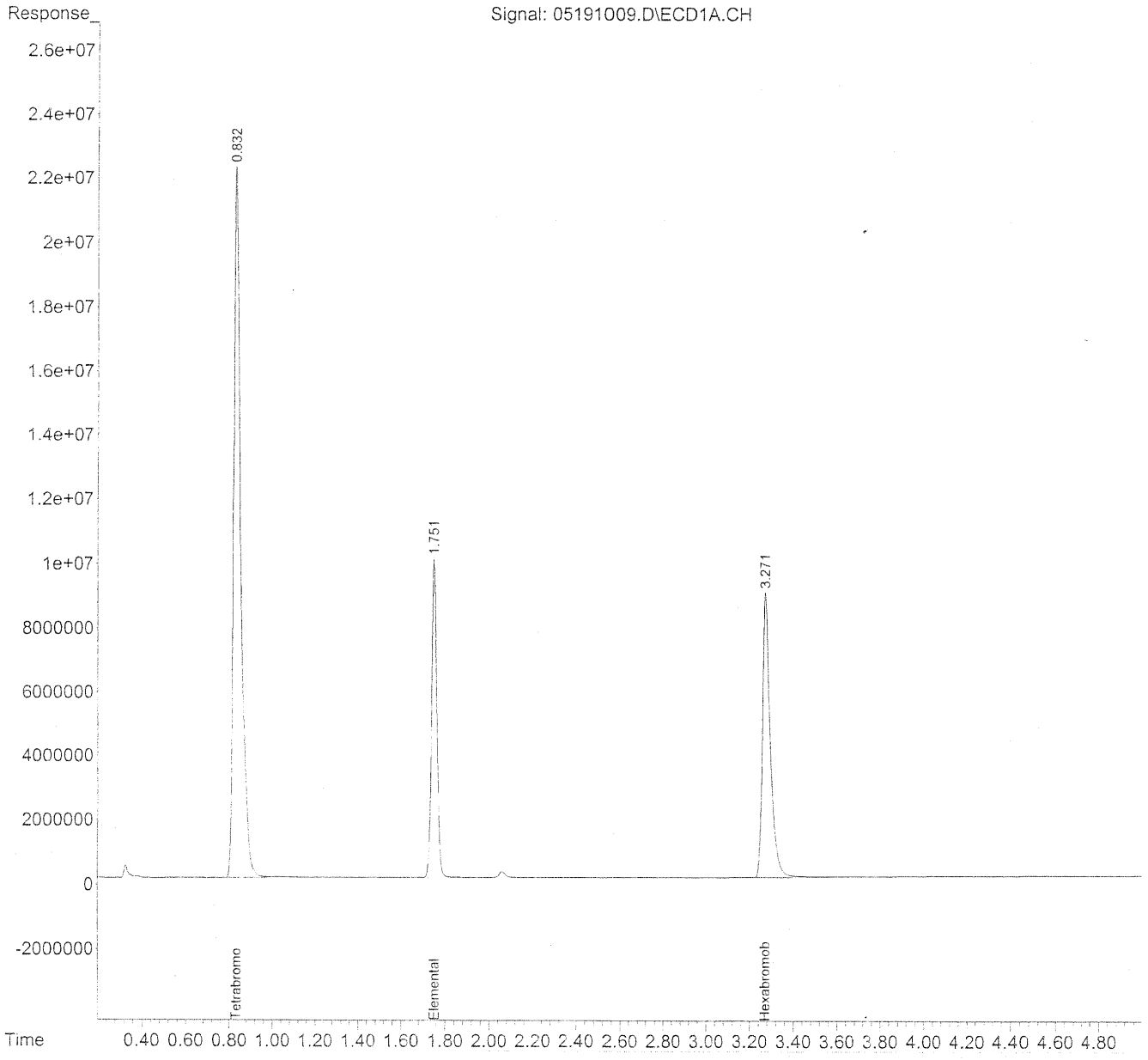
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191009.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:06 am
Operator : HC
Sample : 20ug/ml S8 Std S21-05191007
Misc : GC/ECD method S8
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:00 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:54 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191009.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:06 am
Operator : HC
Sample : 20ug/ml S8 Std S21-05191007
Misc : GC/ECD method S8
ALS Vial : 5 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:00 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:44:54 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.832	502946939	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.751	164338170	20.255 ug/ml
3)	Hexabromobenzene	3.271	223568822	19.805 ug/ml

SemiQuant Compounds - Not Calibrated on this Instrument

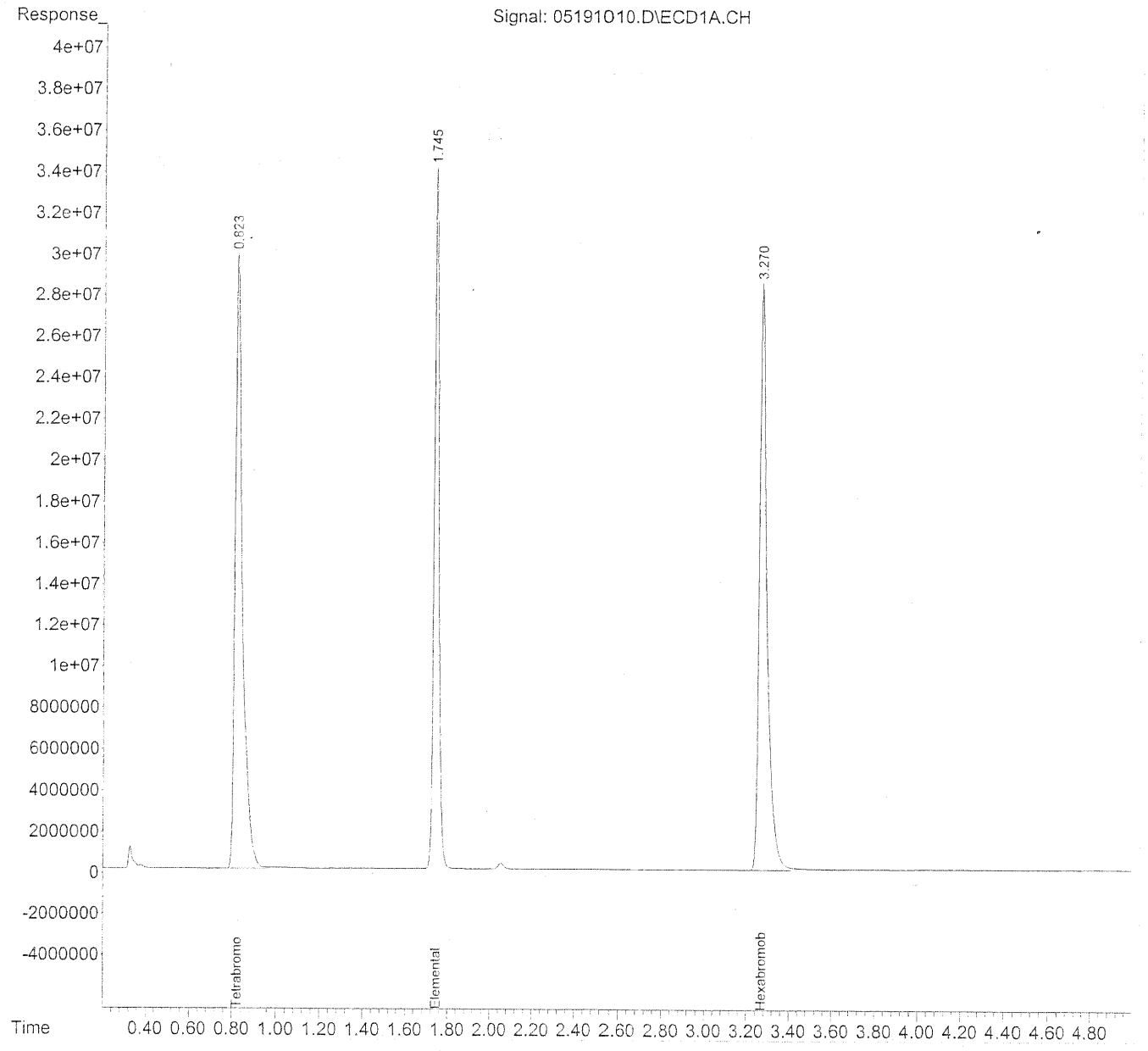
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191010.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:13 am
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:18 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:12 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191010.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:13 am
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 6 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:18 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:12 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.823	697751496	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.745	546186094	48.523 ug/ml
3)	Hexabromobenzene	3.270	713197963	45.540 ug/ml

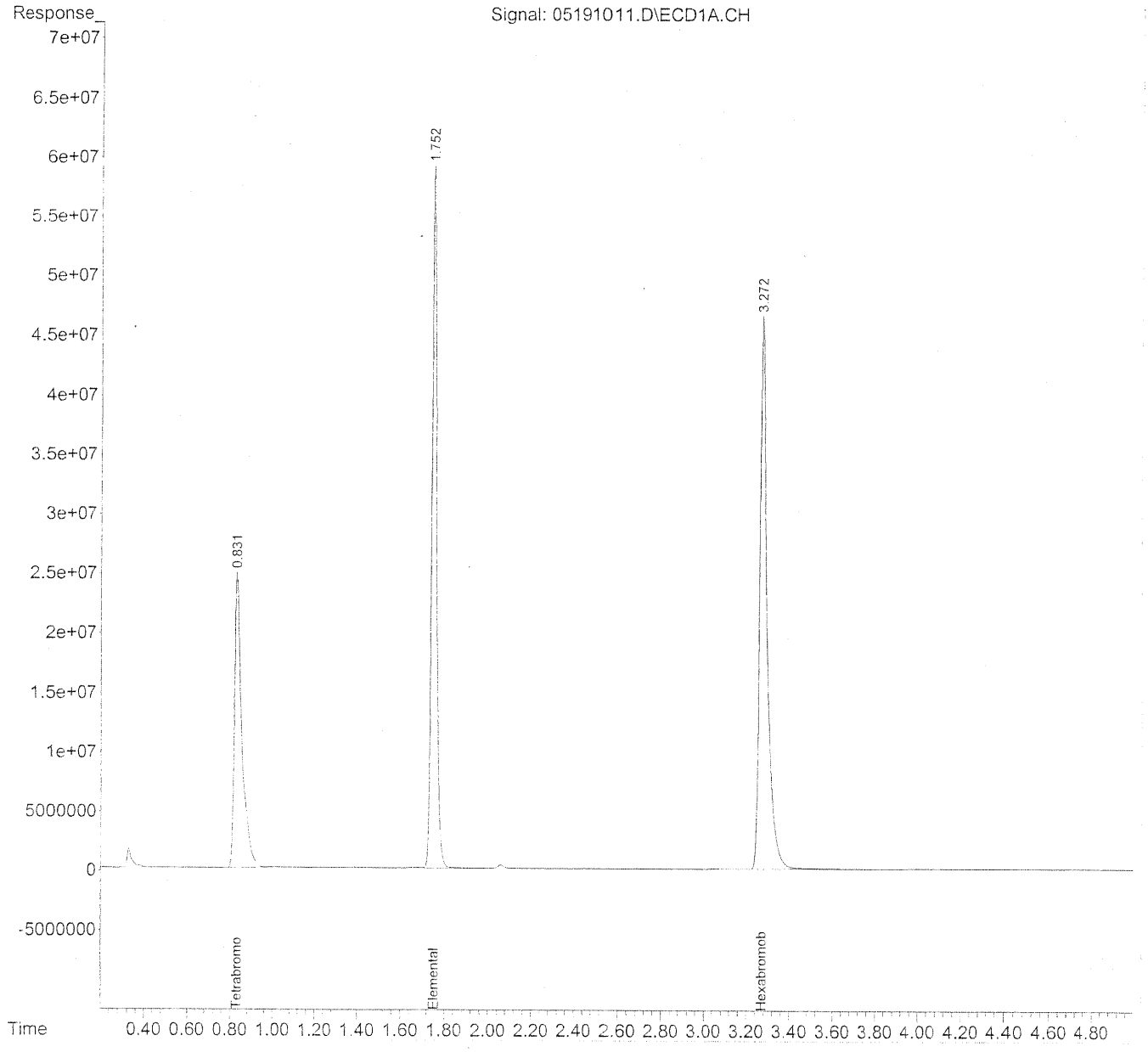
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191011.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:20 am
Operator : HC
Sample : 100ug/ml S8 Std S21-05191005
Misc : GC/ECD method S8
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:38 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:30 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191011.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:20 am
Operator : HC
Sample : 100ug/ml S8 Std S21-05191005
Misc : GC/ECD method S8
ALS Vial : 7 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:45:38 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:30 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.832	594102818	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.753	915446103	95.518 ug/ml
3)	Hexabromobenzene	3.272	1133866593	85.032 ug/ml
SemiQuant Compounds - Not Calibrated on this Instrument				

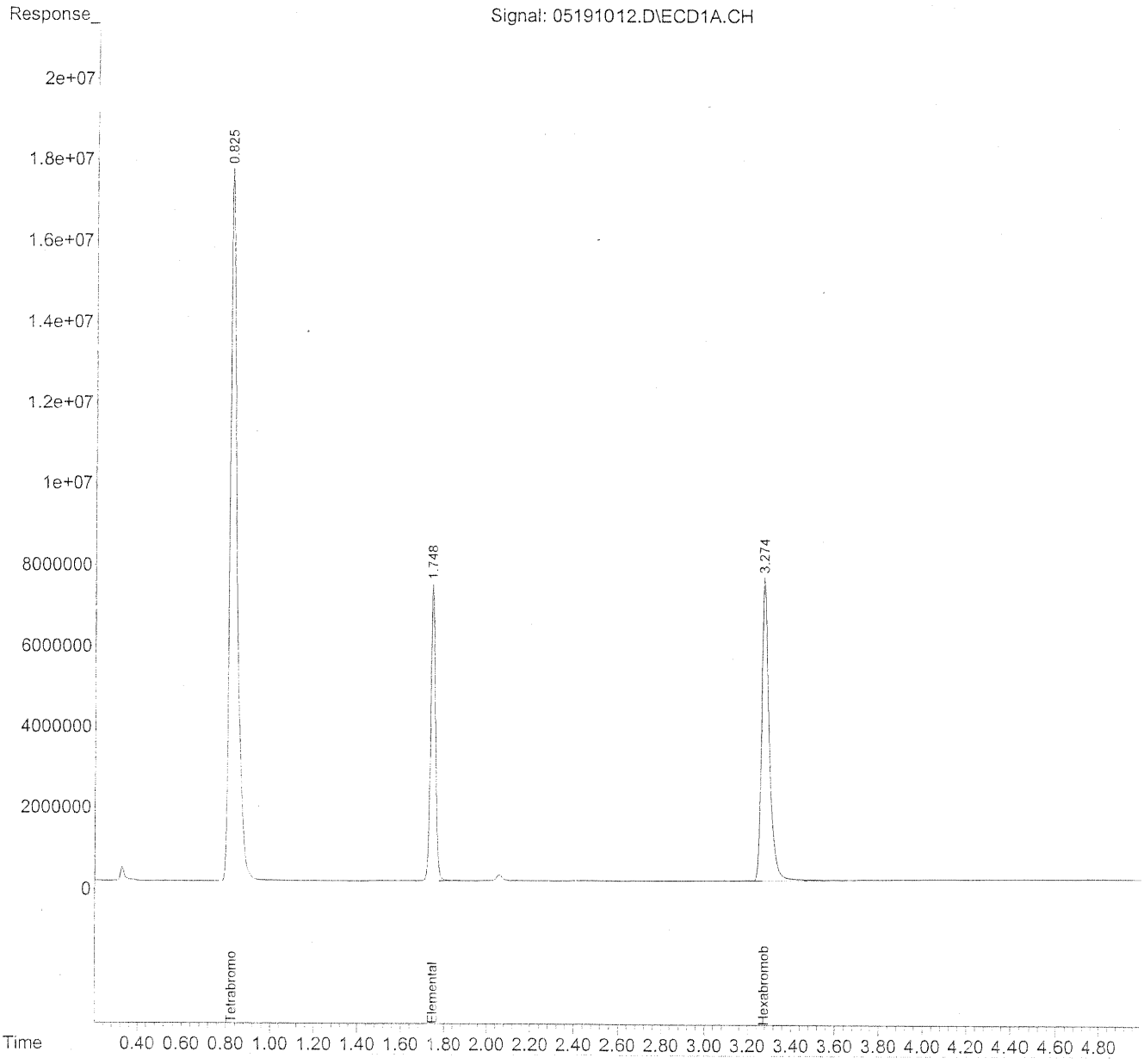
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191012.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:56 am
Operator : HC
Sample : 20ug/ml S8 ICV Std S21-05191012
Misc : GC/ECD method S8
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:46:05 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191012.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:56 am
Operator : HC
Sample : 20ug/ml S8 ICV Std S21-05191012
Misc : GC/ECD method S8
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:46:05 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.826	390104705	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.748	117851821	18.727 ug/ml
3)	Hexabromobenzene	3.274	182727145	20.869 ug/ml

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Evaluate Continuing Calibration Report

Data Path : J:\GC06\DATA\S8\2010_05\19\
Data File : 05191012.D
Signal(s) : ECD1A.CH
Acq On : 19 May 2010 11:56 am
Operator : HC
Sample : 20ug/ml S8 ICV Std S21-05191012
Misc : GC/ECD method S8
ALS Vial : 8 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 19 16:46:05 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	Tetrabromobenzene	1.000	1.000	0.0	78	0.00
2	Elemental Sulfur	0.323	0.302	6.5	72	0.00
3	Hexabromobenzene	0.449	0.468	-4.2	82	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

CONTINUING CALIBRATION STANDARDS

Columbia Analytical Services

Wall Board Elemental Octaatomic Sulfur Extraction GC/ECD Analysis

Method : Elemental Sulfur by GC\ECD
Client & Job# : EH&E P1001783
Analyst : HC

Printed : 5/27/10
Instrument : ECD 06
Date Acquired : 5/26/10

Sample Result (mg/kg)

Sample Information: MRL=1ug/ml	Extract ug/ml	Sample Amount (g)	Dilution Factor	Extract Volume	Final Result (mg/Kg)	IS Response	IS Response % to CCV	IS QC Check (50 - 200%)	SS (ug/ml)	SS % Recovery	SS QC Check (70 - 130%)
50ug/ml S8 Std S21-05191006	44.70					558350010	100.0%		12.00		
SS-ext.5/26/10 fv=5ml	8.94	1.00	1.00	5.0	**44.70**	575848350	103.1%	Pass	13.60	113.3%	Pass
LCS-ext.5/26/10 fv=5ml	9.99	1.00	1.00	5.0	**49.95**	754019929	135.0%	Pass	12.55	104.6%	Pass
LCSD-ext.5/26/10 fv=5ml	9.89	1.00	1.00	5.0	**49.45**	572894001	102.6%	Pass	24.96	208.0%	Fail
NegativeControl-ext.5/26/10 fv=5ml	0.22	1.00	1.00	5.0	**ND**	559714959	100.2%	Pass	12.30	102.5%	Pass
P1001783-001-ext.5/26/10 fv=5ml	0.24	1.00	1.00	5.0	**ND**	518833151	92.9%	Pass	12.01	100.1%	Pass
P1001783-002-ext.5/26/10 fv=5ml	0.23	1.00	1.00	5.0	**ND**	629772173	112.8%	Pass	11.65	97.1%	Pass
P1001783-003-ext.5/26/10 fv=5ml	0.17	1.00	1.00	5.0	**ND**	519428259	93.0%	Pass	13.64	113.7%	Pass
50ug/ml S8 Std S21-05191006	49.58	1.00	1.00	5.0	**247.90**	610218749	109.3%	Pass			
P1001828-002-ext.5/26/10 fv=5ml	22.66	1.00	1.00	5.0	**113.30**	515506197	92.3%	Pass	12.95	107.9%	Pass
P1001828-002MS-ext.5/26/10 fv=5ml	28.23	1.00	1.00	5.0	**141.15**	538031430	96.4%	Pass	11.67	97.3%	Pass
50ug/ml S8 Std S21-05191006	46.07	1.00	1.00	5.0	**230.35**	840775259	150.6%	Pass			

CCV QC Check (+/- 20%)

	Extract ug/ml	Expect ug/ml	% Difference	QC Result
50ug/ml S8 Std S21-05191006	**44.70**	50.00	10.6%	Pass
50ug/ml S8 Std S21-05191006	**49.58**	50.00	0.8%	Pass
50ug/ml S8 Std S21-05191006	**46.07**	50.00	7.9%	Pass

LCS/LCSD QC Check

	Result	Expect ug/mL	% Recovery	% RPD
SS	**8.94**			
LCS-ext.5/26/10 fv=5ml	9.99	8.9	111.7%	1.0%
LCSD-ext.5/26/10 fv=5ml	9.89	8.9	110.6%	

MS/MSD QC Check

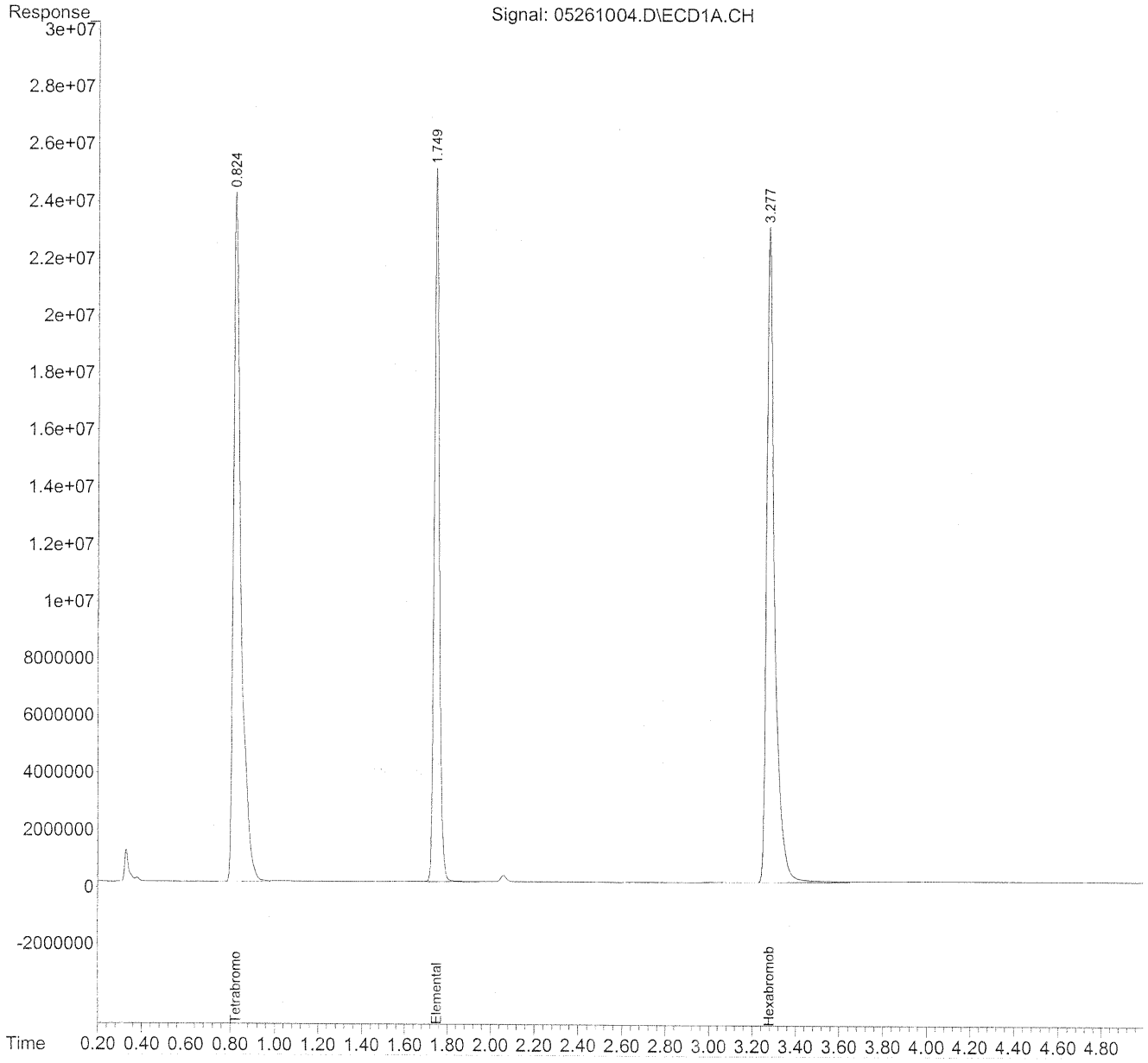
	Result	Expect ug/mL	% Recovery	% RPD
P1001828-002-ext.5/26/10 fv=5ml	**22.66**			
P1001828-002MS-ext.5/26/10 fv=5ml	28.23	8.9	62.3%	

Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261004.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 10:03 am
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 10:11:14 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261004.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 10:03 am
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 2 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 26 10:11:14 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

HC 5-27-10

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.825	558350010	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.750	402620458	44.699 ug/ml
3)	Hexabromobenzene	3.278	585819957	46.746 ug/ml

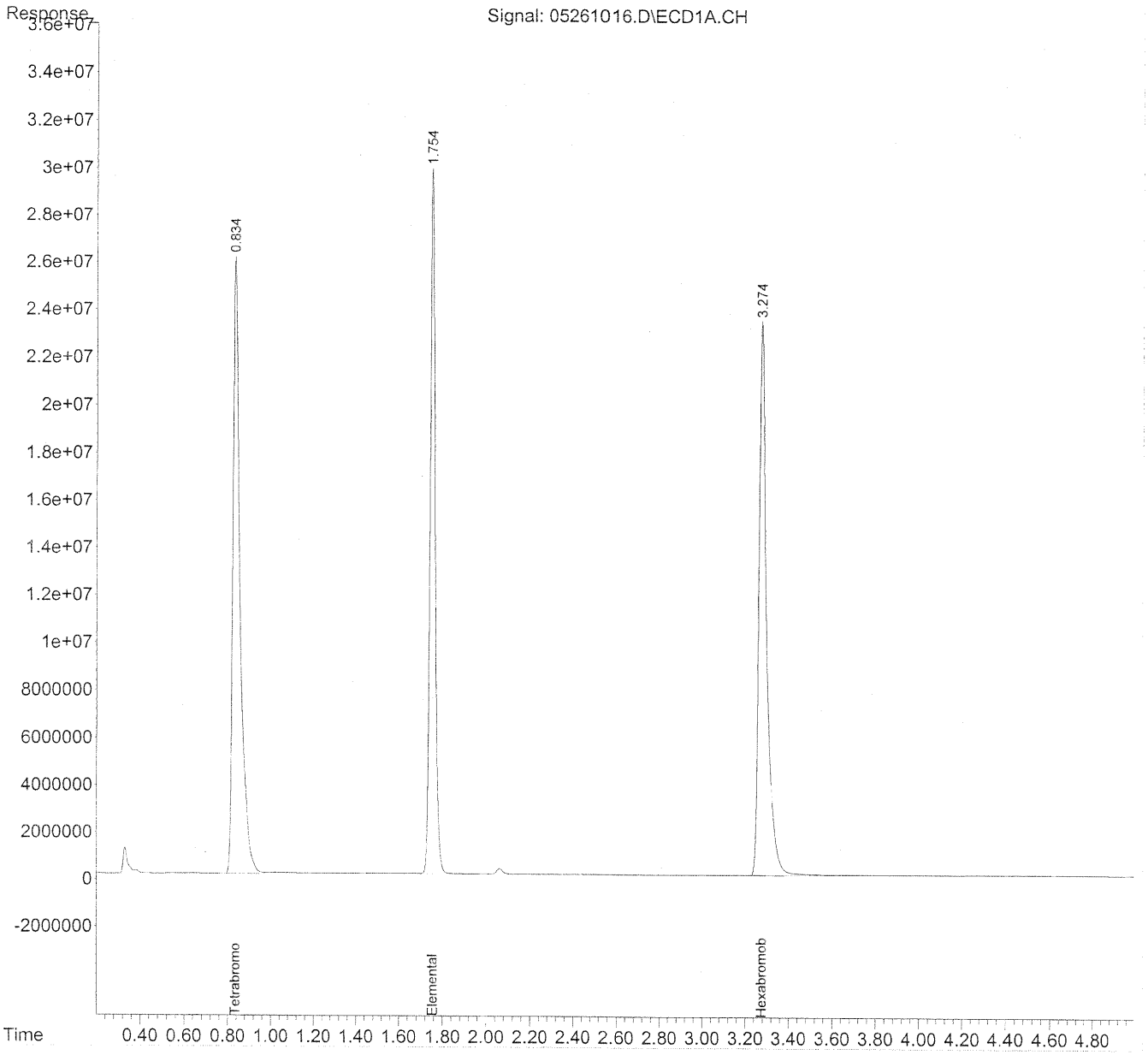
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261016.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:43 pm
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 08:05:22 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261016.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 5:43 pm
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 08:05:22 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.835	610218749	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.754	488065471	49.580 ug/ml
3)	Hexabromobenzene	3.274	589312639	43.027 ug/ml

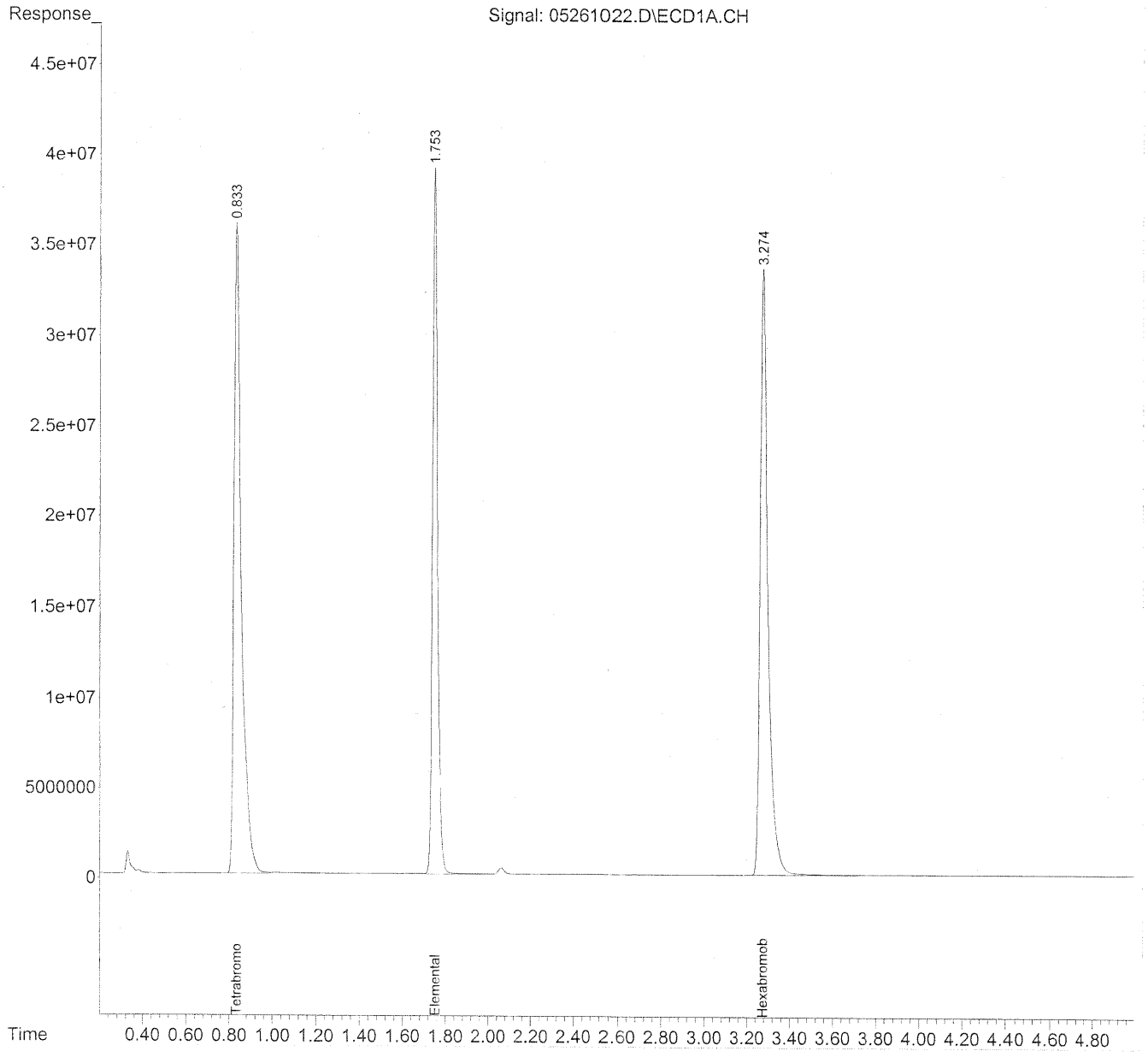
SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261022.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 6:23 pm
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 08:04:07 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : J:\GC06\DATA\S8\2010_05\26\
Data File : 05261022.D
Signal(s) : ECD1A.CH
Acq On : 26 May 2010 6:23 pm
Operator : HC
Sample : 50ug/ml S8 Std S21-05191006
Misc : GC/ECD method S8
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e
Quant Time: May 27 08:04:07 2010
Quant Method : J:\GC06\METHODS\S8051910.M
Quant Title : Elemental Sulfur by GC\ECD
QLast Update : Wed May 19 16:45:50 2010
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 1uL
Signal Phase : RTX5Sil 2m x 18mm x.18um
Signal Info :

	Compound	R.T.	Response	Conc Units
Internal Standards				
1)	Tetrabromobenzene	0.834	840775259	20.000 ug/ml
Target Compounds				
2)	Elemental Sulfur	1.753	624916383	46.074 ug/ml
3)	Hexabromobenzene	3.275	839906570	44.508 ug/ml

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (m)=manual int.

RUN LOGS

Injection Log

Directory: j:\gc06\data\s8\2010_05\19

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	05191001.d	1.	toluene w/IS	GC/ECD method S8	19 May 10 09:5
2	1	05191002.d	1.	toluene w/IS	GC/ECD method S8	19 May 10 10:0
3	1	05191003.d	1.	toluene w/IS	GC/ECD method S8	19 May 10 10:0
4	1	05191004.d	1.	toluene w/IS	GC/ECD method S8	19 May 10 10:1
5	1	05191005.d	1.	20ug/ml Tetrabromobenzene RB S21-051910	GC/ECD method S8	19 May 10 10:4
6	2	05191006.d	1.	1ug/ml S8 Std S21-05191010	GC/ECD method S8	19 May 10 10:4
7	3	05191007.d	1.	5ug/ml S8 Std S21-05191009	GC/ECD method S8	19 May 10 10:5
8	4	05191008.d	1.	10ug/ml S8 Std S21-05191008	GC/ECD method S8	19 May 10 11:0
9	5	05191009.d	1.	20ug/ml S8 Std S21-05191007	GC/ECD method S8	19 May 10 11:0
10	6	05191010.d	1.	50ug/ml S8 Std S21-05191006	GC/ECD method S8	19 May 10 11:1
11	7	05191011.d	1.	100ug/ml S8 Std S21-05191005	GC/ECD method S8	19 May 10 11:2
12	8	05191012.d	1.	20ug/ml S8 ICV Std S21-05191012	GC/ECD method S8	19 May 10 11:5

Injection Log

Directory: J:\GC06\DATA\S8\2010_05\26

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	05261001.d	1.	toluene w/IS	GC/ECD method S8	26 May 2010 08:28
2	1	05261002.d	1.	toluene w/IS	GC/ECD method S8	26 May 2010 08:35
3	1	05261003.d	1.	toluene w/IS	GC/ECD method S8	26 May 2010 08:42
4	2	05261004.d	1.	50ug/ml S8 Std S21-05191006	GC/ECD method S8	26 May 2010 10:03
5	3	05261005.d	1.	toluene with IS	GC/ECD method S8	26 May 2010 14:46
6	4	05261006.d	1.	SS-ext.5/26/10 fv=5ml	GC/ECD method S8	26 May 2010 16:37
7	5	05261007.d	1.	LCS-ext.5/26/10 fv=5ml	GC/ECD method S8	26 May 2010 16:44
8	6	05261008.d	1.	LCSD-ext.5/26/10 fv=5ml	GC/ECD method S8	26 May 2010 16:50
9	7	05261009.d	1.	NegativeControl-ext.5/26/10...	GC/ECD method S8	26 May 2010 16:57
10	8	05261010.d	1.	P1001783-001-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:04
11	9	05261011.d	1.	P1001783-002-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:11
12	10	05261012.d	1.	P1001783-003-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:18
13	11	05261013.d	1.	P1001820-001-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:24
14	12	05261014.d	1.	P1001821-001-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:30
15	13	05261015.d	1.	P1001821-002-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:37
16	1	05261016.d	1.	50ug/ml S8 Std S21-05191006	GC/ECD method S8	26 May 2010 17:43
17	14	05261017.d	1.	P1001823-001-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:50
18	15	05261018.d	1.	P1001823-002-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 17:56
19	16	05261019.d	1.	P1001828-001-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 18:03
20	17	05261020.d	1.	P1001828-002-ext.5/26/10 fv...	GC/ECD method S8	26 May 2010 18:09
21	18	05261021.d	1.	P1001828-002MS-ext.5/26/10 ...	GC/ECD method S8	26 May 2010 18:16
22	1	05261022.d	1.	50ug/ml S8 Std S21-05191006	GC/ECD method S8	26 May 2010 18:23