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Pleasanton, CA 94566
925.426.2600
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2013

May 23, 2003

Barney Chan
Hazardous Materials Specialist
ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Clayton Project No. 70-03365.02

Subject: Supplemental Investigation of the Former Dunne Paints Facility, 1007 41st Street in Oakland/Emeryville and 4050 Adeline Street in Emeryville, California

Dear Mr. Chan:

Clayton Group Services, Inc. (Clayton) is pleased to present this report documenting the results from a recent Supplemental Investigation conducted at the above-referenced subject property (Figure 1). Several previous site investigations have been performed at the site and their results along with a description of the site history were recently presented in the Clayton report "*Predevelopment Investigation Report of the Former Dunne Paint facility at 1007 41st Street in Oakland/Emeryville and 4050 Adeline Street in Emeryville, California*" dated December 23, 2002.

Mr. Barney Chan of the Alameda County Health Care Service Agency (ACHCSA), in a letter dated March 21, 2003 listed four technical comments and stated that no further active remediation will be required at this property if the technical comments are adequately addressed. This supplemental investigation was performed in response to the ACHCSA's Technical Comment #1:

"We concur with the proposed excavation of this site to an average depth of 10.5' and the removal of groundwater if encountered. Based upon previous results, post-excavation soil sampling is required in the west portion of the site, near the areas of borings B-11, B-12, and B-14-B-16. If post-excavation soil concentrations exceed 5000 ppm TPH in these areas, we request that additional soil excavation up to a maximum depth of 15.5' bgs be performed to remove the highly impacted soil."

As such, the aim of this investigation was to define areas within the western portion of the planned excavation area where Total Petroleum Hydrocarbons as Mineral Spirits (TPH-ms) in soil exceeded 5,000 kilograms per kilogram (mg/kg). This report presents a

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description of field investigation procedures, a site map showing sample locations, a summary of analytical results, and conclusions and recommendations as necessary.

SCOPE OF WORK

The sampling for the investigation was based on the recommendations of the ACHCSA; where vertical soil samples every 1,000-square feet throughout the western portion of the subject property would be sufficient to adequately characterize the TPH-ms concentration at and below the base of the proposed excavation. Therefore, this supplemental soil sampling prior to excavation was performed in lieu of the post-excavation soil sampling in order to avoid delays in the construction program.

The scope of work for this investigation involve the following tasks:

- Project management,
- Prefield Activities,
- Field Sampling Activities,
- Laboratory Analysis, and
- Report Preparation.

Work performed to complete the above listed tasks is described in the following discussion.

PRE-FIELD ACTIVITIES

The purpose of the pre-field activities was to appropriately plan the work and to ensure that onsite personnel are prepared for potential safety hazards at the property. The pre-field activities included the following:

- Development of a workplan to conduct the investigation. The workplan dated April 7, 2003 was submitted to the ACHCSA for review and approval. The workplan was approved by ACHCSA, with comments, in a letter dated April 9, 2003.
- Prepared a Site Safety and Health Plan (SSHP) to reflect the work proposed at the subject property. The SSHP detailed the work to be performed, safety precautions, emergency response procedures, nearest hospital information, and onsite personnel responsible for managing emergency situations.
- Marked the site boundaries with white paint and notifying Underground Service Alert (USA) at least 48 hours prior to performing field activities, as required by law, and employed a private utility locating service to identify onsite subsurface utilities prior to conducting subsurface field activities.

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- Obtained a drilling permit, as necessary, from the Alameda County Department of Public Works (ACDPW).

SAMPLING RATIONALE

A total of 12 borings (B-17 through B-28) were advanced in the western portion of the subject property, at the locations shown in Figure 2. Each boring was located centrally within a 1,000-square foot grid across the western portion of the subject property. The target soil sampling depth for the investigation was the base of the planned excavation, which is presently set at approximately 39 feet above mean sea level (amsl) across the subject property. However, since the ground surface elevations at the subject property are variable, the soil sampling depths varied within boreholes. For example, ground surface elevations near the western end of the property near Adeline Street vary between about 46 and 48 feet amsl, while most of the building and the eastern portions of the subject property are at an elevation of about 51 feet amsl.

Therefore, the subsurface borings were advanced both inside and outside of the current buildings to depths between 7 and 16 feet below ground surface (bgs), based on ground surface elevations. In order to appropriately characterize the near surface soil that will remain following excavation, soil samples were collected at depth corresponding to 39 feet, 37 feet, and 35 feet amsl from each of the 12 borings.

The soil sampling depth in each boring is listed below, and determined from existing ground surface elevations at each borehole location and the proposed post-development elevation of 39 feet amsl:

Boring ID Sample Depth Interval (feet bgs)

B-17-B-24	12, 14, 16
B-25	11, 13, 15
B-26	9, 11, 13
B-27	8, 10, 12
B-28	7, 9, 11

FIELD SAMPLING ACTIVITIES

A Clayton geologist supervised Environmental Control Associates, Inc. of Aptos, California to advance the borings using Geoprobe® direct-push drilling equipment. Limited access drilling equipment was used to collect soil samples from within the onsite

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buildings. Del Secco Diamond Core and Saw of Hayward, California, removed concrete cores in eight locations prior to drilling

Soil cores were recovered within a 2-inch diameter macro-core lined with an acetate tube. Soil core were examined to determine subsurface soil types and physical evidence of contamination (e.g., odors, discoloration, chemical sheen). An organic vapor analyzer (OVA) was used to screen soil for volatile compounds. Soil descriptions and OVA reading were recorded onto field logs, which are presented in Attachment 1.

A 6-inch long section of the acetate tube containing soil for laboratory analysis was cut at intervals corresponding to the required test depths. The soil sample tube was sealed with Teflon tape, capped, labeled, and placed in a pre-chilled ice chest. Collected soil samples were transported to a State of California-certified laboratory under formal chain-of-custody documentation.

Prior to abandoning boreholes, an electric water level meter was lowered in to each borehole to determine the static water level within the borehole. The depth to water measurements are presented on boring logs (Attachment 1). Once the fieldwork was completed, boreholes were filled to the ground surface with cement grout.

Downhole equipment was cleaned prior to advancing each boring and prior to collecting samples. Waste soil cuttings and decontamination water were containerized in a 55-gallon drum, labeled with identifying information and stored onsite pending appropriate disposal following the completion of field activities.

SUBSURFACE CONDITIONS

The site is predominantly underlain by clay or silty clay soils. Sand and gravel horizons that vary from gravelly clay to clayey gravel generally occur at depths of 10 to 11 feet bgs. The depth to water below the building floor surface occurred at approximately 7 to 10 feet bgs, and at shallower depth along the Adeline Street. Free water was found in boreholes that encountered more porous sand and gravel soils; free water was not found in boreholes that encountered predominantly clay soil.

The distribution of impacted soil, as indicated from OVA reading was variable within the upper (non-saturated) portion of the site. However, a distinctive green coloration of the clayey soil corresponded to high OVA readings. The green color soil had a thickness of approximately 5-feet in most locations.

Below the green soil, the clayey soils were typical reddish to orange brown and had noticeably lower OVA readings associated with them.

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LABORATORY ANALYSIS AND RESULTS

A total of 36 soil samples were submitted to the State of California-certified Curtis and Tompkins Ltd. of Berkeley, California for analysis. Only those soil samples corresponding to the 39-foot amsl elevation were initially tested. Also, at the request of ACHCSA, all samples from boreholes B-17, B-23, and B-28 were analyzed.

The soil samples were analyzed using the following United States Environmental Protection Agency (USEPA)-approved method:

- USEPA Method 8015M for Total Petroleum Hydrocarbons quantified for mineral spirits (TPH-ms)

The certified laboratory data sheets and chain-of-custody documentation for samples submitted for analysis are presented in Attachment 2. A summary of the analytical results is presented in Table 1.


Only at one sample location, borehole B-18 at the sample depth of 12 feet bgs was TPH-ms found to be above the 5,000 mg/kg excavation target level. The subsequent sample B-18@14 contained TPH-ms at 99 mg/kg. All other soil samples collected and analyzed from within the area of investigation were below the 5,000 mg/kg excavation target level.


CONCLUSIONS AND RECOMMENDATIONS

The results of this investigation indicate that slight over-excavation in the vicinity of Borehole B-18 will be required to meet the remedial objectives outlined by ACHCSA. The over excavation will require an additional 2-feet of soil to be removed in the 1,000 square foot area in the vicinity of borehole B-18 (see Figure 2). The analytical results from other test locations indicated that the planned soil excavation for the remaining portion of the site will meet the remedial objectives of removing soil with greater than 5,000 mg/kg TPH.

If you have any questions or need additional information, please contact us at (925) 426-2600.

Sincerely,


Warren B. Chamberlain, R.G., C.HG, P.E.
Project Geologist
Environmental Services


Jon A. Rosso, P. E.
Director
Environmental Services

TABLES

TABLE 1

Summary of Discrete Soil Sample Analytical Results - TPH as mineral spirits
Former Dunne Paints
Oakland/Emeryville, California

BOREHOLE	Sample Depth (feet bgs)	Sample Elevation (feet, amsl)	TPH-ms (mg/kg)
B-17	11.5	39.5	16
B-17	14	37	16
B-17	15.5	35.5	420
B-18	12	39	6,800
B-18	14	37	99
B-19-1	12	39	800
B-19-2	14	37	3
B-20	11.5	39.5	2
B-21	12	39	1,100
B-22	11.5	39.5	13
B-23	12	39	2.3
B-23	14	37	11
B-23	16	35	810
B-24	12	39	400
B-25	11	39	27
B-26	11	37	<1.0
B-27	8	40	<0.92
B-28	7	41	3,600
B-28	9	39	290
B-28	11	37	220

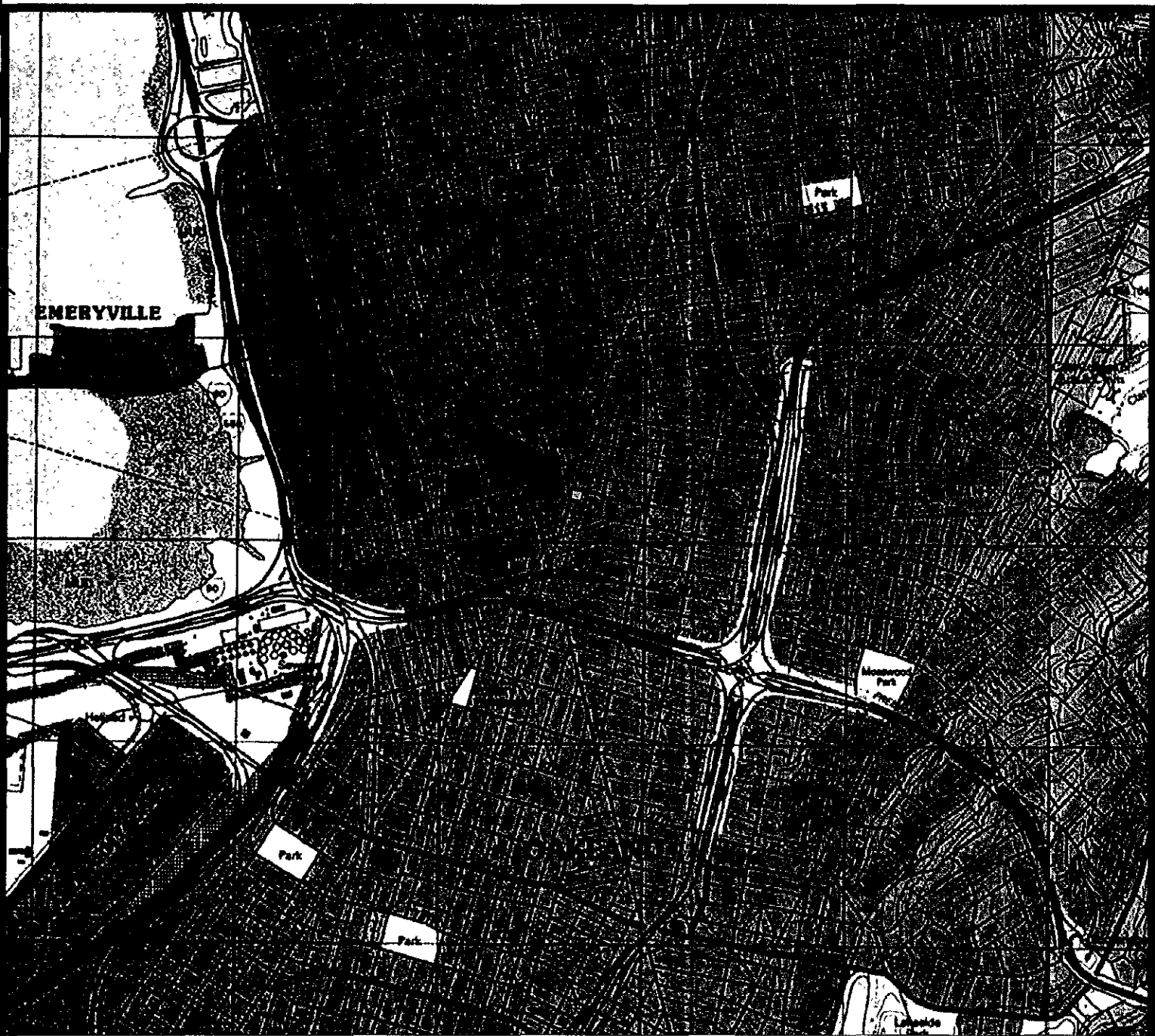
*Chain/labeling
error noted*

B-19-1 *

Notes:

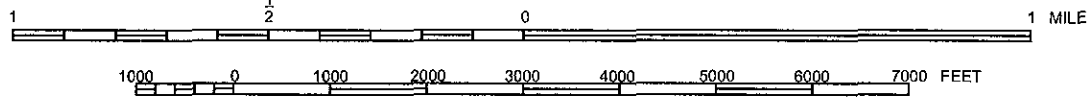
<# = analyte not detected at or above the indicated laboratory method reporting limit
mg/kg = milligrams per kilogram
Sampling date: March 27, 2003
TPH-ms, = Total petroleum hydrocarbons quantified as mineral spirits

FIGURES



Map Source: TOPO! © 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate



Portion of the 7.5-Minute Series Oakland West, California
 Quadrangle Topographic Map (Datum: NAD 27)
 United States Department of the Interior
 Geological Survey
 1997



PROPERTY LOCATION MAP
 1007 41st Street
 Emeryville/Oakland, California and
 4050 Adeline Street
 Emeryville, California
 Clayton Project No. 70-03365.00

Figure
1




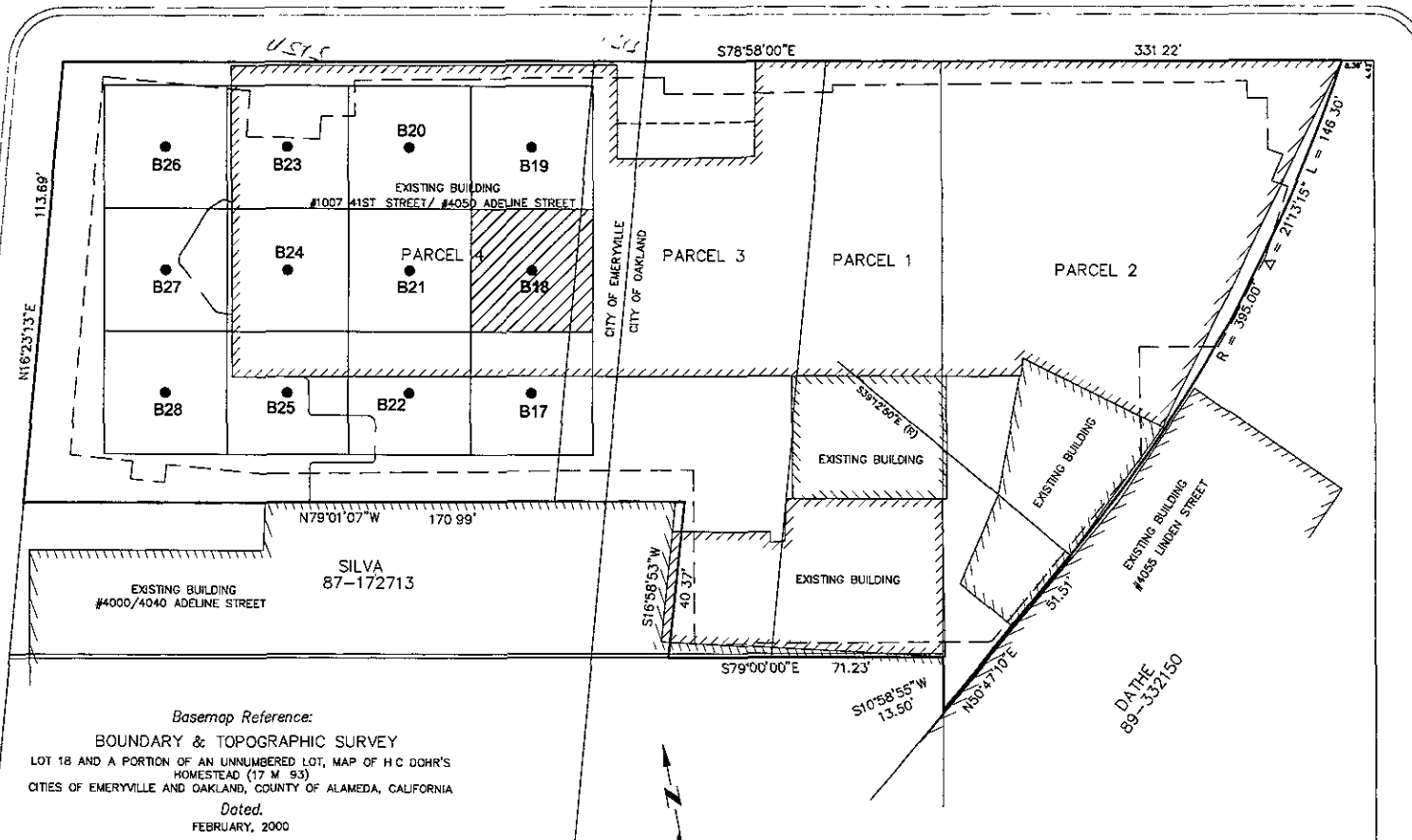
ADELINE STREET

41ST. STREET

LINDEN STREET

LEGEND:

- Property Boundary
-  Area Requiring Additional Excavation to Depth of 37 feet, msl.
- Soil Boring Location



Basemap Reference:
 BOUNDARY & TOPOGRAPHIC SURVEY
 LOT 18 AND A PORTION OF AN UNNUMBERED LOT, MAP OF H C DOHR'S
 HOMESTEAD (17 M. 93)
 CITIES OF EMERYVILLE AND OAKLAND, COUNTY OF ALAMEDA, CALIFORNIA
 Dated,
 FEBRUARY, 2000
 By
 BAY AREA LAND SURVEYING
 MICHAEL J FOSTER, L.S. 7170
 1828 BONITA ROAD
 RICHMOND, CA 94806
 (510) 232-3095

APNS 48-1022-01, 12-1022-01 & 02 SHT 1 OF 1 F.B. # 015 VADL157 JOB # 00-157

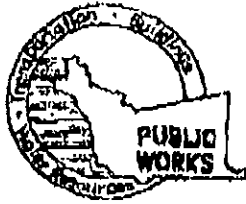


SOIL BORING LOCATIONS
 FORMER DUNNE PAINTS
 1007 41ST STREET, OAKLAND
 AND 4050 ADELINE STREET, EMERYVILLE
 Clayton Project No. 70-03365 02

Figure
2
 04/28/03
 SITE0403 DWG



ATTACHMENT 1
BORING PERMITS AND LOGS



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
 392 ELMHURST ST. HAYWARD CA. 94544-1325
 PHONE (510) 870-3377 (970-6653) James Yao
 FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1007 41st Street OAKLAND
4050 Adeline Street Emeryville

PERMIT NUMBER W03-0287
 WELL NUMBER _____
 APN _____

CLIENT Green City Lofts
 Name _____
 Address 3675 Oakland Ave Phone 510.572.1360
 City Oakland Zip 94605

PERMIT CONDITIONS
 Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Clayton Group Services - Jesse Edmonds
 Name _____
 Address 6920 Holl Vtr. Parkway Phone 925.426.8106
 City Pleasanton Zip 94566

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by trowel.
2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction Geotechnical Investigation
 Cathodic Protection General
 Water Supply Contamination
 Monitoring Well Destruction

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by trowel.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
 Municipal Irrigation
 Industrial Other

D. GEOTECHNICAL / Contamination

Backfill bore hole by trowel with cement grout or cement grout/sand mixture.

DRILLING METHOD:

Mud Rotary Air Rotary Auger
 Cable Other Geoprobe

E. CATHODIC

Fill hole around zone with concrete placed by trowel.

DRILLER'S NAME Environmental Control Associates

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO. 695970

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

WELL PROJECTS

Drill Hole Diameter 2 1/2 in. Maximum Depth 16 ft.
 Casing Diameter _____ in. Maximum Depth _____ ft.
 Surface Seal Depth _____ ft. Owner's Well Number _____

GEOTECHNICAL PROJECTS / Contamination

Number of Borings 12 Maximum Depth 16 ft.
 Hole Diameter 2 in. Depth _____ ft.

ESTIMATED STARTING DATE April 21
 ESTIMATED COMPLETION DATE April 27

APPROVED _____ DATE 4-20-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ DATE 4-4-03

PLEASE PRINT NAME Jesse Edmonds Rev. 3-13-00



LOG OF BORING B-17

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				concrete	
					Silty Clay (CL) black, soft, moist
	96				poor sample recovery 4 to 6 feet bgs
5					
	380				Silty Sand (SM) black, loose, saturated
					Silty Clay (CL) black, medium stiff, wet
	162				
					Clayey Gravel (GC) black, loose, saturated
10					
					Silty Clay (CL) black, stiff, wet
	272				
					occasional sand stringer
	159				transitions to brown clay, very stiff
15					
	132				
Total Depth of Boring = 16 feet					
20					

Notes:

Static water level at 7.20 feet bgs.
 Borehole abandoned with neat cement grout.

04-24-2003 s:\es\boring_logs\p03365B-17.BOR



LOG OF BORING B-18

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				concrete	
0 - 4.5	□ 124			[Diagonal Hatching]	Gravelly Clay (CL) dark grey, soft, dry
4.5 - 9.7	□ 148			[Dotted Pattern]	Silty Gravel (GM) light brown, loose, dry
9.7 - 11.5			▽ 463	[Diagonal Hatching]	Gravelly Clay (CL) light grey, soft, dry
11.5 - 12.5	⊗ 281			[Diagonal Hatching]	Gravelly Sandy Clay, light brown, soft, dry
12.5 - 16.0	⊗			[Diagonal Hatching]	Gravelly Clay, dark green, soft, wet
Total Depth of Boring = 16 feet					
20					

Notes:
 Static water level at 9.70 feet bgs.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-19

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Green City Lofts LLC
Subsurface Investigation
1007 41st Street
Emeryville, California

Date Started : 04/17/03
Date Completed : 04/17/03
Hole Diameter : 2-inch
Drilling Method : Geoprobe
Sampling Method : Macrocore

Driller : ECA
Logged by : Matt Reimer

Clayton Project No.. 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				--- --- ---	concrete
0 - 5	☐	5		Diagonal hatching	Gravelly Clay (CL) light brown to dark grey, soft, dry, hydrocarbon odor
5 - 8	☐	3		Diagonal hatching	Silty Clay, dark grey, soft, moist
8 - 9.30	☐	0	▽	Diagonal hatching	Silty Clay, greenish brown to green, stiff, moist
9.30 - 11.5				Dotted pattern	Gravelly Sand (SW) with fines, grey, loose, saturated subrounded gravels, sub angular sands
11.5 - 16	☒	509		Diagonal hatching	Gravelly Clay (CL) greenish grey, soft, wet
16 - 17	☒	(3)		Diagonal hatching	
17 - 18	☒			Diagonal hatching	
Total Depth of Boring = 16 feet					
20					

Notes:
Static water level at 9.30 feet bgs.
Borehole abandoned with neat cement grout

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ppm MS



LOG OF BORING B-20

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				--- --- ---	concrete
0 - 15.5	□	0		Diagonal hatching	Silty Clay (CL) reddish brown, soft, dry, rootlets
10 - 11	□	1		Diagonal hatching	becomes moist color change to black
11 - 12	□	26		Diagonal hatching	color change to green
12 - 15.5	⊗	372		Dotted pattern	Clayey Gravel (GC) angular gravel in green clay matrix, dense/soft, saturated
15.5	⊗	501	▽	Diagonal hatching	refusal at 15.5 feet bgs

Total Depth of Boring = 15.5 feet

Notes:

Static water only at base of borehole.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-21

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				-----	concrete
0 - 2.83	□	283		Diagonal Hatching	Gravelly Clay (CL) light brown to dark grey, soft, dry
2.83 - 5.85	□	585		Diagonal Hatching	Silty Clay, dark grey, soft, moist
5.85 - 8.50				Diagonal Hatching	Silty Clay, greenish brown to green, stiff, moist
8.50 - 10.00				Stippled	Gravelly Sand (SW) with fines, grey, loose, saturated subrounded gravels, sub angular sands
10.00 - 15.00	⊗			Diagonal Hatching	Gravelly Clay (CL) greenish grey, soft, wet
15.00 - 16.00	⊗	541		Diagonal Hatching	
16.00 - 20.00	⊗			Diagonal Hatching	

Total Depth of Boring = 16 feet

Notes:

Hole collapsed at 12 feet bgs, no static water at this depth.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-23

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
					Gravelly Sand (SW) light brown, loose, dry
56		56			
38		38			
88		88			becomes green
					becomes gravelly clay, green, medium stiff, dry
531		531			Clay, green, stiff, dry
Total Depth of Boring = 16 feet					

Notes:
 Dry hole, no water had entered borehole prior to abandonment.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-25

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
					Silty Clay (CL) fdark brown, soft, dry
	□	1			becomes moist, slightly more silty
5					
	□	88			becomes black, stiff clay
	□	461			thin 3" sand stringer
10					becomes green clay, stiff
	⊗	197			becomes gravelly from 11 to 13 feet bgs
	⊗	14			
15					transistion to orange brown clay, very stiff
	⊗	2			
Total Depth of Boring = 16 feet					
20					

Notes:
 Dry hole, no water had entered borehole prior to abandonment.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-26

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
0 - 16				Gravelly Clay (CL) reddish brown, soft, dry, rootlets	Gravelly Clay (CL) reddish brown, soft, dry, rootlets
2					becomes silty clay at 2 feet bgs, brown, soft, dry
5.67		0	▽		becomes moist, and black-brown
12.5		0			becomes greenish grey clay, stiff, moist
12.5 - 14				becomes gravelly from 12.5 to 14 feet bgs	becomes gravelly from 12.5 to 14 feet bgs
14	□	0			
14.7	⊗	14.7			
17	⊗	208			
15	⊗	127			
Total Depth of Boring = 16 feet					
20					

Notes:
 Static water level at 5.67 feet bgs.
 Borehole abandoned with neat cement grout.

04-24-2003 s:\es\boring_logs\p03365\B-26.BOR



LOG OF BORING B-27

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
0 - 10		o			Gravelly Clay (CL) dark brown, soft, dry, rootlets
10 - 11		o			
11 - 12			▽		becomes light grey clay, stiff, moist
12		437			
Total Depth of Boring = 12 feet					

Notes:
 Static water level at 10.60 feet bgs.
 Borehole abandoned with neat cement grout.

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LOG OF BORING B-28

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Green City Lofts LLC
 Subsurface Investigation
 1007 41st Street
 Emeryville, California

Date Started : 04/17/03
 Date Completed : 04/17/03
 Hole Diameter : 2-inch
 Drilling Method : Geoprobe
 Sampling Method : Macrocore

Driller : ECA
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
0 - 4.5				[Diagonal Hatching]	Silty Clay (CL) dark brown, soft, dry, rootlets
4.5 - 6.7				[Vertical Lines]	Silty Sand (SM) brown, loose, saturated
6.7			▽		Static water level at 6.70 feet bgs.
6.7 - 10.5				[Diagonal Hatching]	Gravelly Silty Clay (CL) green, stiff, moist
10.5 - 12.0					
Total Depth of Boring = 12 feet					
15					
20					

Notes:
 Static water level at 6.70 feet bgs.
 Borehole abandoned with neat cement grout

04-24-2003 s:\ees\borng_log\sp03365\B-28.BDR

ATTACHMENT 2

**ANALYTICAL DATA SHEETS AND
CHAIN OF CUSTODY DOCUMENTATION**



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

Clayton Group Services
6920 Koll Center Parkway
Suite 216
Pleasanton, CA 94566

Date: 23-APR-03


Lab Job Number: 164817

Project ID: STANDARD

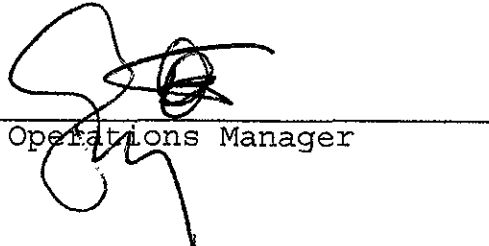
Location: Green City Lofts

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.

Laboratory Number: 164817
Client: Clayton Group Services
Location: Green City Lofts
Project: 70-03365.02

Receipt Date: 04/17/03

CASE NARRATIVE

This hardcopy data package contains sample and QC results for twenty soil samples that were received on April 17, 2003. The samples were received cold and intact.

TVH MINERAL SPIRITS by EPA 8015B: High surrogate recovery was observed for Bromofluorobenzene in the following samples IDs B-28 @7 (C&T#164817-007), B-28 @9 (C&T# 164817-008), B-28 @11 (C&T#164817-009), B-25 @11 (C&T#164817-013), B-17 @11.5 (C&T#164817-016), B-17 @15.5 (C&T#164817-018), B-22 @11.5 (C&T#164817-019), B-21 @12 (C&T#164817-022), B-19 @12-1 (C&T#164817-026), B-18 @12 (C&T#164817-028), B-18 @14 (C&T#164817-029), B-24 @12 (C&T#164817-031), B-23 @14 (C&T#164817-035), and B-23 @16 (C&T#164817-036) due to coelution with a hydrocarbon peak. No other analytical problems were encountered.



CHAIN OF CUSTODY

Lab: ~~Macomber~~ CBT

TAT: ~~Standard~~ 45-hrs

164817

Report results to:

Name: Jesse Edmonds
 Company: Clayton Group Services
 Mailing Address: 6920 Koll Center Parkway, Ste. 216
 City, State, Zip: Pleasanton, California 94566
 Telephone No.: (925) 426-2626
 Fax No.: (925) 426-0106

Project Information

Project No.: 70-03365.02
 Name: Green City Lofts
 Location: Emeryville, California

Special instructions and/or specific regulatory requirements:

Analyses Requested

8015M for TPH as mineral spirits																			
----------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Preservation Correct?
 Yes No N/A

Received On Ice
 Cold Ambient Intact

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Conts															Sample Condition/Comments	Preservative
-1 B-26 @ 11	4.17.03	9:34	S	1	X															Ice
-2 B-26 @ 13		9:49	S	1															Hold	Ice
-3 B-26 @ 15		9:51	S	1															Hold	Ice
-4 B-20 @ 11.5		10:30	S	1	X															Ice
-5 B-20 @ 13		10:40	S	1															Hold	Ice
-6 B-20 @ 15		10:50	S	1															Hold	Ice
-7 B-28 @ 7		11:05	S	1	X															Ice
-8 B-28 @ 9		11:15	S	1															Hold	Ice
-9 B-28 @ 11		11:20	S	1	X															Ice

Collected by: Warrick Sherburne Date/Time 4.17.03 (18:06)

Collector's Signature: Pat Flynn CBT Date/Time 4/17/03 18:00

Relinquished by: _____ Date/Time _____

Received by: _____ Date/Time _____

Relinquished by: _____ Date/Time _____

Received by: _____ Date/Time _____

Method of Shipment: _____

Sample Condition on Rcpt: _____



CHAIN OF CUSTODY

Page 2 of 4

Lab: McCormick CRT

TAT: Standard 48-hr

164817

Report results to:

Name Jesse Edmands
 Company Clayton Group Services
 Mailing Address 6920 Koll Center Parkway, Ste. 216
 City, State, Zip Pleasanton, California 94566
 Telephone No. (925) 426-2626
 Fax No. (925) 426-0106

Project Information

Project No. 70-03365.02
 Name Green City Lofts
 Location Emeryville, California

Special instructions and/or specific regulatory requirements:

Analyses Requested

Preservation Correct?
 Yes No N/A

Received On Ice
 Cold Ambient Intact

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Conts.	8015M for TPH as mineral spirits	Sample Condition/Comments	Preservative
-10 B-27 @ 8	4-17-03	10:57	S	1	X		Ice
-11 B-27 @ 10		11:00	S	1		Hold	Ice
-12 B-27 @ 12		11:12	S	1		Hold	Ice
-13 B-25 @ 11		11:39	S	1	X		Ice
-14 B-25 @ 13		11:55	S	1		Hold	Ice
-15 B-25 @ 15		11:59	S	1		Hold	Ice
-16 B-17 @ 11.5		12:45	S	1	X		Ice
-17 B-17 @ 14		12:50	S	1		Hold	Ice
-18 B-17 @ 15.5		12:58	S	1	X		Ice

Collected by: Nena B. Chombi-ban Date/Time 4-17-03 (18:06)

Collector's Signature: _____ Date/Time _____

Relinquished by: _____ Date/Time _____

Received by: Pat Flynn Date/Time 4/17/03 (18:06)

Relinquished by: _____ Date/Time _____

Received by: _____ Date/Time _____

Method of Shipment: _____

Sample Condition on Rcpt: _____



CHAIN OF CUSTODY

Page 3 of 4

Lab: ~~McCampbell~~ C&T

TAT: ~~Standard~~ 48 hrs

164817

Report results to:

Name: Jesse Edmands
 Company: Clayton Group Services
 Mailing Address: 6920 Koll Center Parkway, Ste. 216
 City, State, Zip: Pleasanton, California 94566
 Telephone No.: (925) 426-2626
 Fax No.: (925) 426-0106

Project Information

Project No.: 70-03365.02
 Name: Green City Lofts
 Location: Emeryville, California

Special instructions and/or specific regulatory requirements:

Analyses Requested

8015M for TPH as mineral spirits	<input checked="" type="checkbox"/> Received	<input type="checkbox"/> On Ice
	<input checked="" type="checkbox"/> Cold	<input type="checkbox"/> Ambient
	<input checked="" type="checkbox"/> Intact	

Preservation Correct?

Yes No N/A

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Conts.	8015M for TPH as mineral spirits	Sample Condition/Comments	Preservative
-19 B-22 @ 11.5	4-17-03	14:02	S	1	X	Hold	Ice
-20 B-22 @ 14		14:10	S	1		Hold	Ice
-21 B-22 @ 15.5		14:22	S	1		Hold	Ice
-22 B-21 @ 12		13:57	S	1	X		Ice
-23 B-21 @ 14		14:05	S	1		Hold	Ice
-24 B-21 @ 16		14:09	S	1		Hold	Ice
-25 B-19 @ 12 *		12:02	S	1	X		Ice
-26 B-19 @ 14 *		12:10	S	1		Hold	Ice
-27 B-19 @ 16		12:14	S	1		Hold	Ice

Collected by: [Signature] Date/Time 4/17/03 18:05

Collector's Signature: [Signature] Date/Time 4/17/03 18:05

Relinquished by: _____ Date/Time _____

Received by: [Signature] Date/Time _____

Relinquished by: _____ Date/Time _____

Received by: _____ Date/Time _____

Method of Shipment: _____

Sample Condition on Rcpt: _____

* Both cores labelled B-19 @ 12 no time on any of the labels
 per Jk logged in as B-19 @ 12-1 + B-19 @ 12-2 both to be analyzed
 4/17/03



CHAIN OF CUSTODY

Page 4 of 4

Lab: ~~McCampbell~~ C&T

TAT: ~~Standard~~ 48hrs

164817

Report results to:

Name: Jesse Edmands
 Company: Clayton Group Services
 Mailing Address: 6920 Koll Center Parkway, Ste. 216
 City, State, Zip: Pleasanton, California 94566
 Telephone No.: (925) 426-2626
 Fax No.: (925) 426-0106

Project Information

Project No.: 70-03365.02
 Name: Green City Lofts
 Location: Emeryville, California

Special instructions and/or specific regulatory requirements:

Analyses Requested

8015M for TPH as mineral spirits	Received	On Ice	Cold	Ambient	Intact
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Preservation Correct?
 Yes No N/A

Sample Identification	Date Sampled	Time Sampled	Matrix/Media	No. of Conts.	Sample Condition/Comments	Preservative
-28 B-18 @ 12	4.17.03	14:57	S	1	X	Ice
-29 B-18 @ 14		15:05	S	1		Hold Ice
-30 B-18 @ 16		15:10	S	1		Hold Ice
-31 B-24 @ 12		15:27	S	1	X	Hold Ice
-32 B-24 @ 14		15:30	S	1		Hold Ice
-33 B-24 @ 16		15:35	S	1		Hold Ice
-34 B-23 @ 12		16:47	S	1	X	Ice
-35 B-23 @ 14		16:53	S	1		Hold Ice
-36 B-23 @ 16		16:58	S	1	X	Ice

Collected by: Mtha Ram Date/Time 4/17/03 18:05
 Relinquished by: _____ Date/Time _____
 Relinquished by: _____ Date/Time _____
 Method of Shipment: _____

Collector's Signature: Pat Flynn C&T Date/Time 4/17/05 (18:08)
 Received by: _____ Date/Time _____
 Received by: _____ Date/Time _____
 Sample Condition on Rcpt: _____

Patricia Flynn

From: "Patricia Flynn" <pat@ctberk.com>
To: "Jesse Edmands" <jedmands@claytongrp.com>
Cc: <jrosso@claytongrp.com>
Sent: Friday, April 18, 2003 11:51 AM
Subject: Green City Lofts project

Hi Jesse,

On C-O-C # 3 of 4

Sample listed on the C-O-C as B-19@12 and B-19@14. We received two cores with same samples ID of B-19@12 no sample time on an of the cores. Due to the rush TAT, we logged both samples in as B-19@12-1 and B-19@12-2 and will analyzed them both for TVH mineral spirits.

Please let me know otherwise.

Thanks
Pat

Patricia Flynn
Project Manager
Curtis & Tompkins Ltd.
Ph. (510)486-0925 x 146
Fx. (510) 486-0532

164817

Patricia Flynn

From: "Jon Rosso" <JRosso@claytongrp.com>
To: "Jesse Edmands" <jedmands@claytongrp.com>; <pat@ctberk.com>
Sent: Friday, April 18, 2003 2:53 PM
Subject: Re: Green City Lofts project

17 35

That sounds good. Also add analysis of samples B-17@14 feet, B-23@14 feet, and B-28@9 feet for TPH mineral spirits (like the others). Thanks
Jon

JRS

~~JRS~~

Patricia Flynn

From: "Jon Rosso" <JRosso@claytongrp.com>
To: <pat@ctberk.com>
Sent: Monday, April 21, 2003 12:07 PM
Subject: Re: Results for C&T Job 164817

Pat,
Please run B18@14 on 24 TAT.

Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Field ID:	B-26@11	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-001	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	98	60-146

Field ID:	B-20@11.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-004	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	2.0	0.94

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	112	60-146

Field ID:	B-28@7	Diln Fac:	200.0
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-007	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	3,600	200

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	58-144
Bromofluorobenzene (FID)	212 *	>LR b 60-146

Field ID:	B-28@9	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-008	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	290	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	58-144
Bromofluorobenzene (FID)	238 *	>LR b 60-146

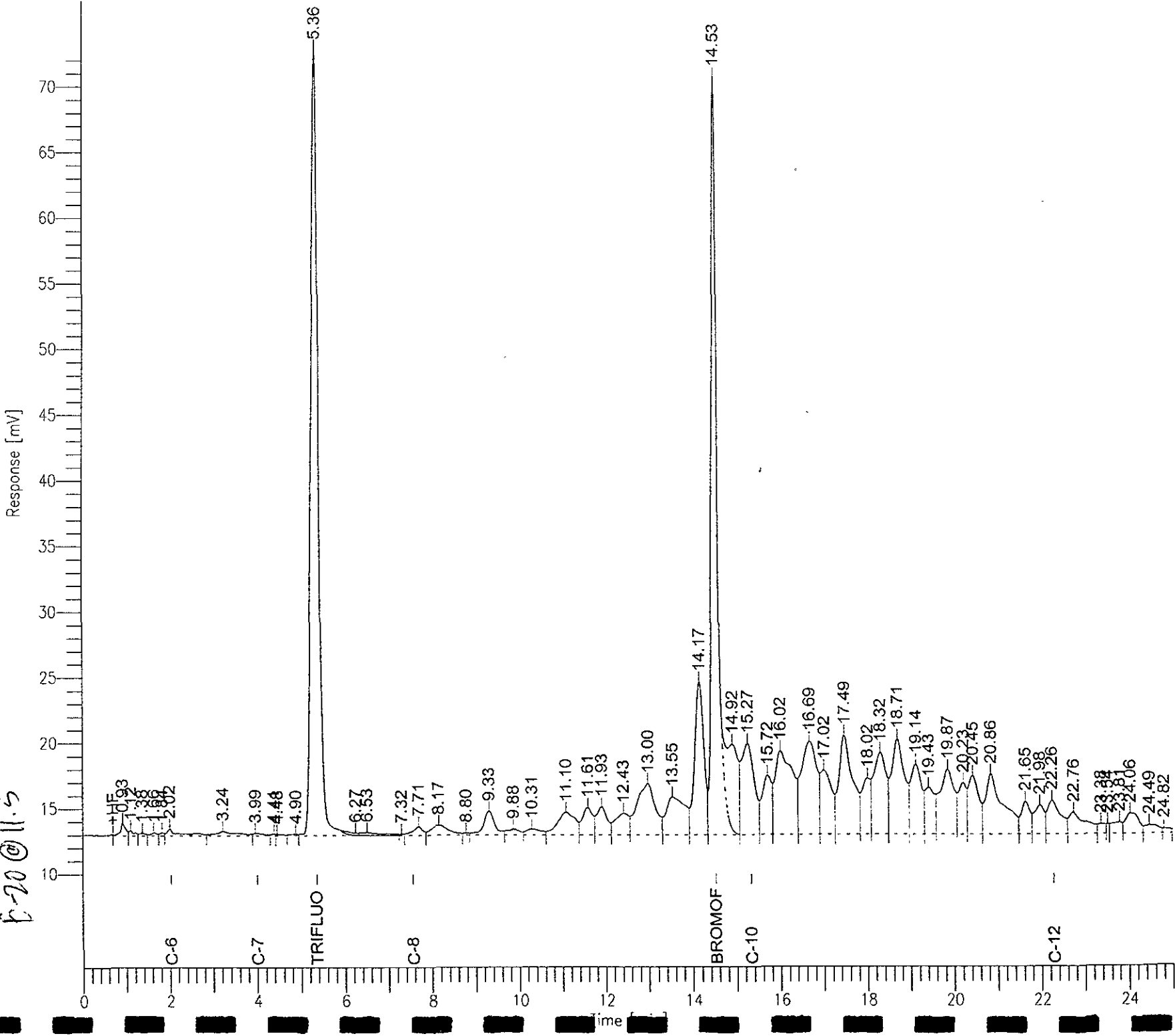
*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
 Page 1 of 6

Chromatogram

Sample Name : 164817-004,80906
File Name : G:\GC05\DATA\108G023.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0
Sample #: a
Date : 4/19/03 04:02 PM
Time of Injection: 4/18/03 10:28 PM
Low Point : 9.96 mV
High Point : 72.83 mV
End Time : 25.00 min
Plot Offset: 10 mV
Plot Scale: 62.9 mV

Page 1 of 1

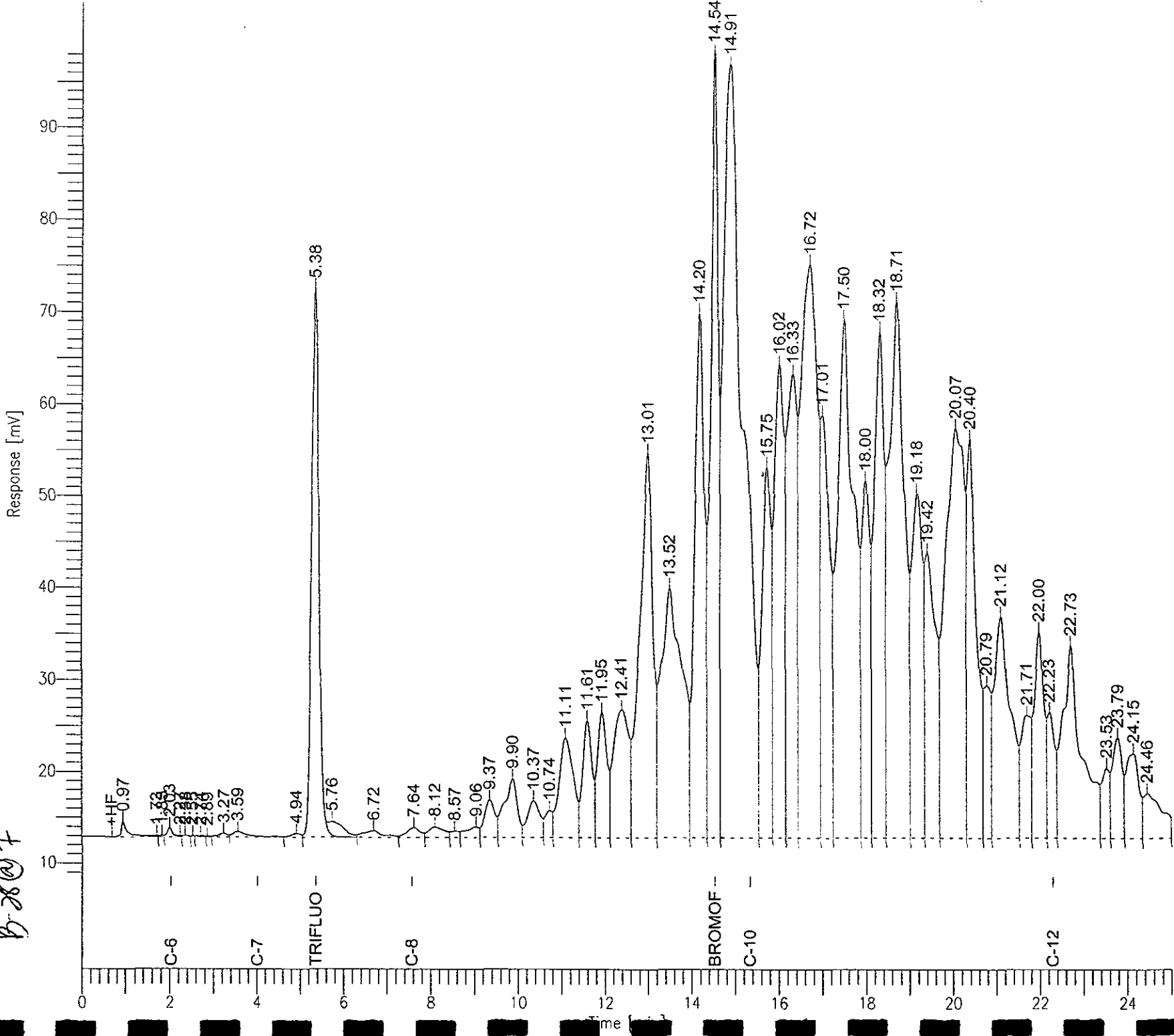
f-20 @ 11.5



Chromatogram

Sample Name : 164817-007.80906
File Name : G:\GC05\DATA\108G055.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0
Sample #: a
Date : 4/19/03 07:45 PM
Time of Injection: 4/19/03 07:15 PM
Low Point : 8.59 mV
High Point : 98.20 mV
End Time : 25.00 min
Plot Offset: 9 mV
Plot Scale: 89.6 mV

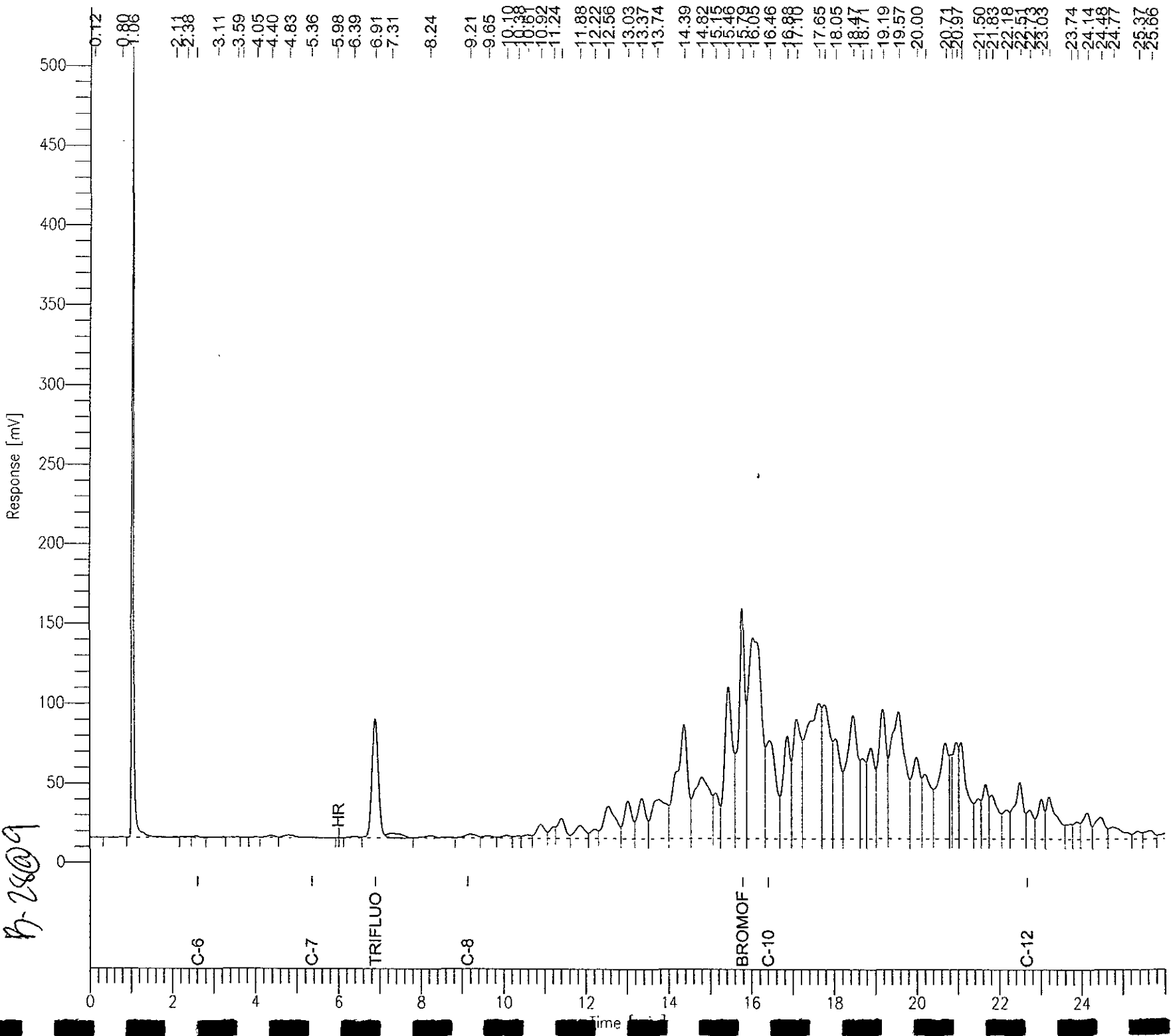
B-28 @ 7



GC07 TVH 'A' Data File RTX 502

Sample Name : 164817-008,80936
 FileName : G:\GC07\DATA\109A014.raw
 Method : TVHBTX
 Start Time : 0.00 min
 Scale Factor : 1.0
 Sample #: a
 Date : 4/19/03 11:26 PM
 Time of Injection: 4/19/03 10:57 PM
 Low Point : -8.55 mV
 High Point : 505.69 mV
 End Time : 26.00 min
 Plot Offset: -9 mV
 Plot Scale: 514.2 mV

7-2809



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Field ID:	B-28@11	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-009	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	220	10

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	58-144
Bromofluorobenzene (FID)	229 *	>LR b 60-146

Field ID:	B-27@8	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-010	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	ND	0.92

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	58-144
Bromofluorobenzene (FID)	101	60-146

Field ID:	B-25@11	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-013	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	27	0.97

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	205 *	60-146

Field ID:	B-17@11.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-016	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	16	0.96

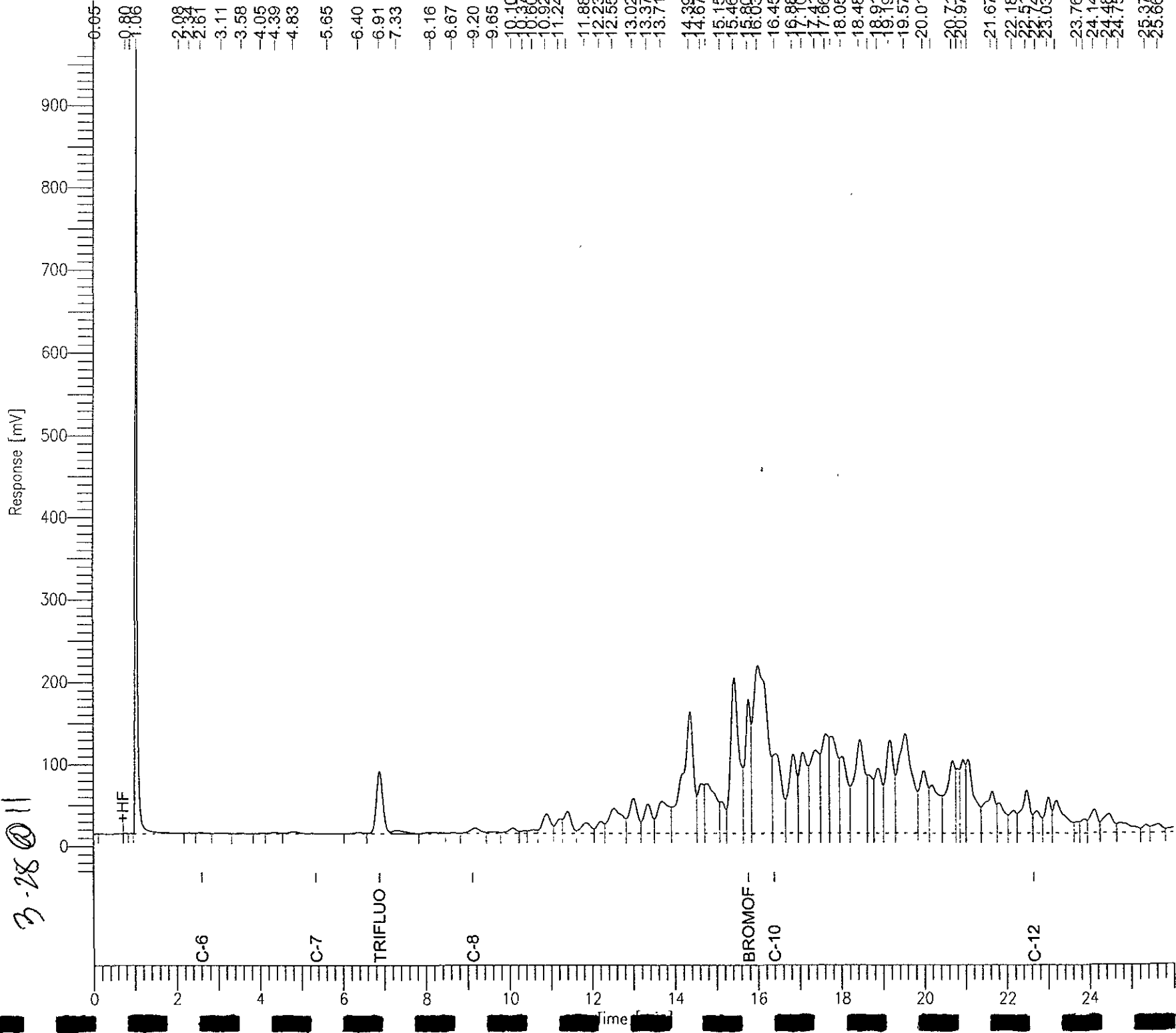
Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	223 *	>LR b 60-146

*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
 Page 2 of 6

GC07 TVH 'A' Data File RTX 502

Sample Name : 164817-009,80936
 File Name : G:\GC07\DATA\109A010.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor : 1.0
 Sample #: a
 Date : 4/19/03 09:06 PM
 Time of Injection: 4/19/03 08:37 PM
 Low Point : -32.30 mV
 Plot Scale: 1000.7 mV
 End Time : 26.00 min
 Plot Offset: -32 mV
 High Point : 968.36 mV

3-28 @ 11



Chromatogram

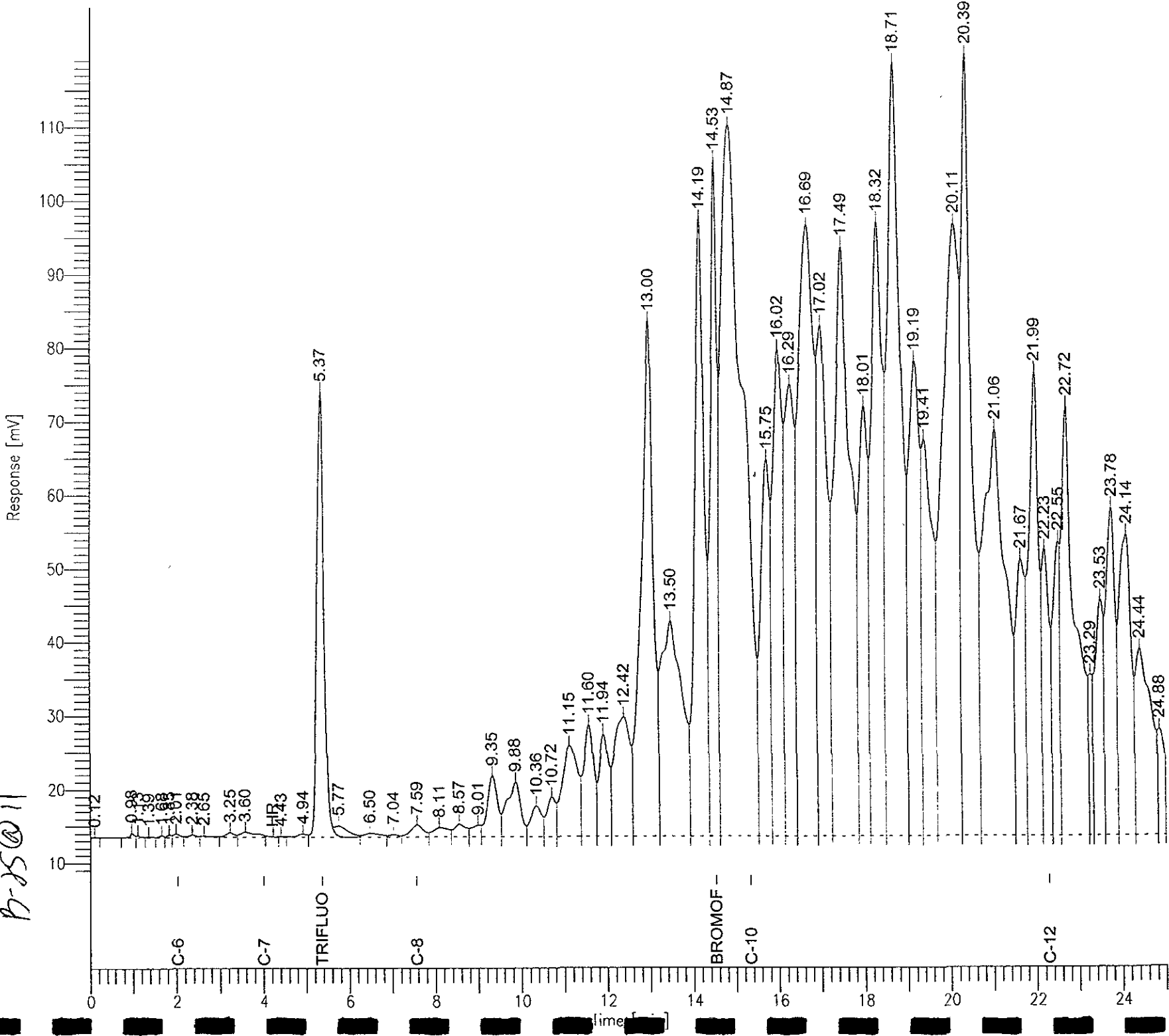
Page 1 of 1

Sample Name : 164817-013.80906
FileName : G:\GC05\DATA\108G027.raw
Method : TVRBYXE
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: a
Date : 4/19/03 04:07 PM
Time of Injection: 4/19/03 12:42 AM
Low Point : 8.19 mV
High Point : 119.69 mV
Plot Scale: 111.5 mV

End Time : 25.00 min
Plot Offset: 8 mV

B-25@11



Chromatogram

Page 1 of 1

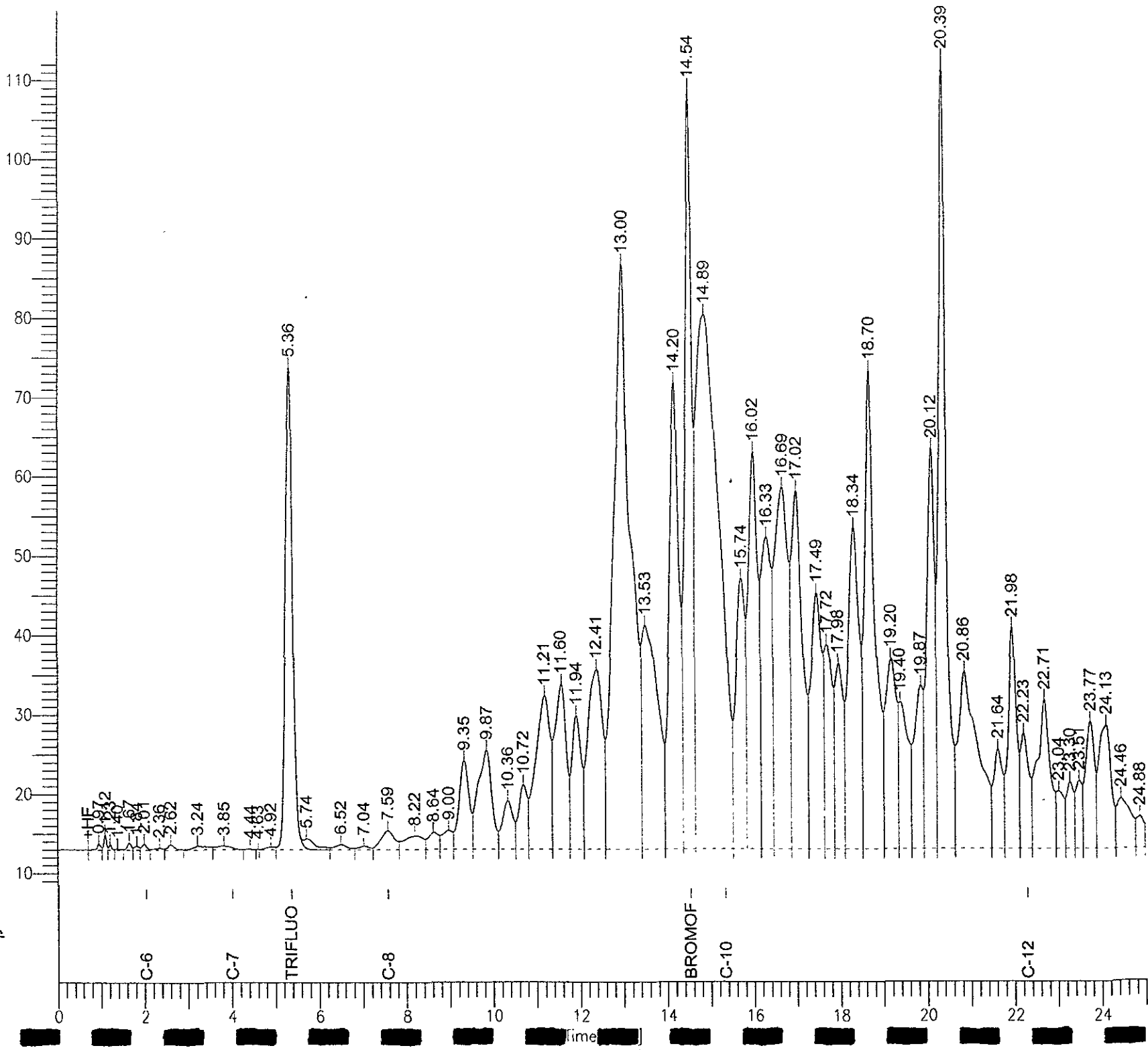
Sample Name : 164817-016_80906
File Name : G:\GC05\DATA\108G024.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: a
Date : 4/19/03 04:02 PM
Time of Injection: 4/18/03 11:02 PM
Low Point : 8.02 mV
High Point : 112.59 mV
Plot Scale: 104.6 mV

End Time : 25.00 min
Plot Offset: 8 mV

Response [mV]

D-17 @ 11.5 very close to MS.



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Field ID:	B-17@14	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-017	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	16	2.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	58-144
Bromofluorobenzene (FID)	143	60-146

Field ID:	B-17@15.5	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-018	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	420	10

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	58-144
Bromofluorobenzene (FID)	276 *	>LR b 60-146

Field ID:	B-22@11.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-019	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	13	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	58-144
Bromofluorobenzene (FID)	170 *	60-146

Field ID:	B-21@12	Diln Fac:	40.00
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-022	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	1,100	40

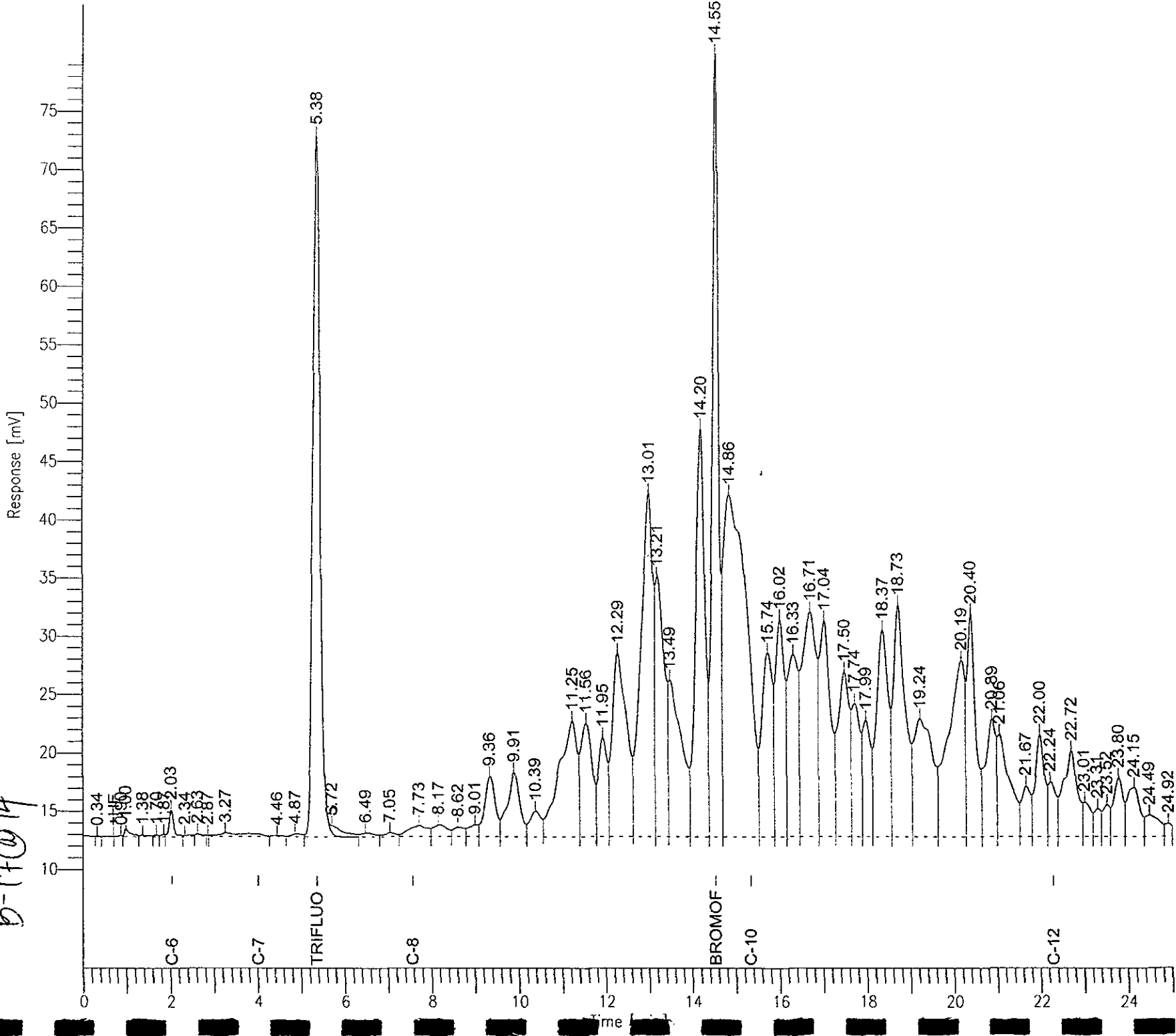
Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	58-144
Bromofluorobenzene (FID)	256 *	>LR b 60-146

*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range

Chromatogram

Sample Name : 164817-017_80906
File Name : G:\GC05\DATA\1080052.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0
Sample #: a
Date : 4/19/03 06:22 PM
Time of Injection: 4/19/03 05:35 PM
Low Point : 9.46 mV
High Point : 79.98 mV
End Time : 25.00 min
Plot Offset: 9 mV
Plot Scale: 70.5 mV

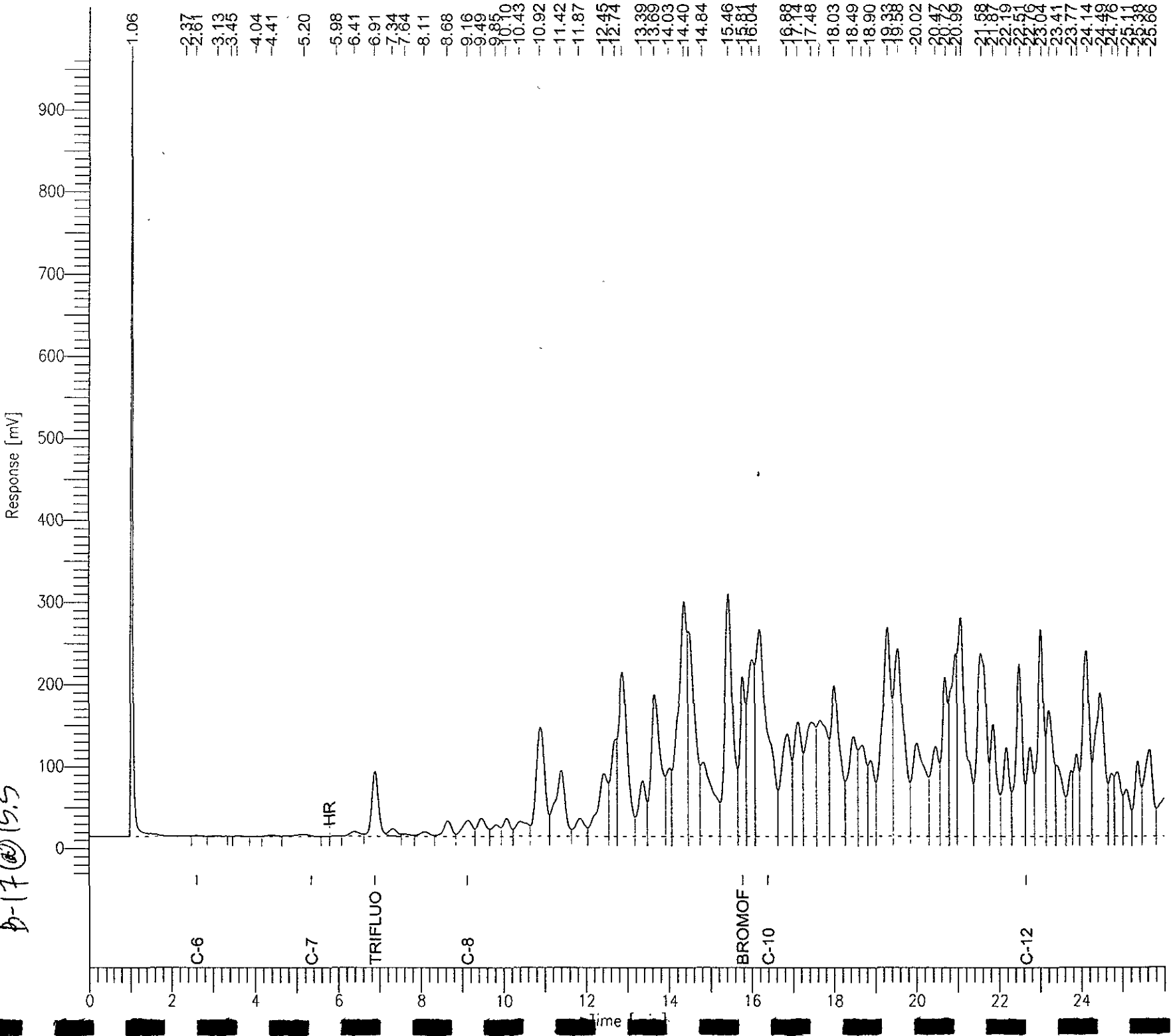
B-17@14



GC07 TVH 'A' Data File RTX 502

Sample Name : 164817-018_80936
 File Name : G:\GC07\DATA\109A009.raw
 Method : TVHRTXE
 Start Time : 0.00 min
 Scale Factor : 1.0
 Sample #: a
 Date : 4/19/03 08:31 PM
 Time of Injection: 4/19/03 08:02 PM
 Low Point : -32.36 mV
 Plot Scale: 999.2 mV
 End Time : 26.00 min
 Plot Offset: -32 mV
 High Point : 966.83 mV

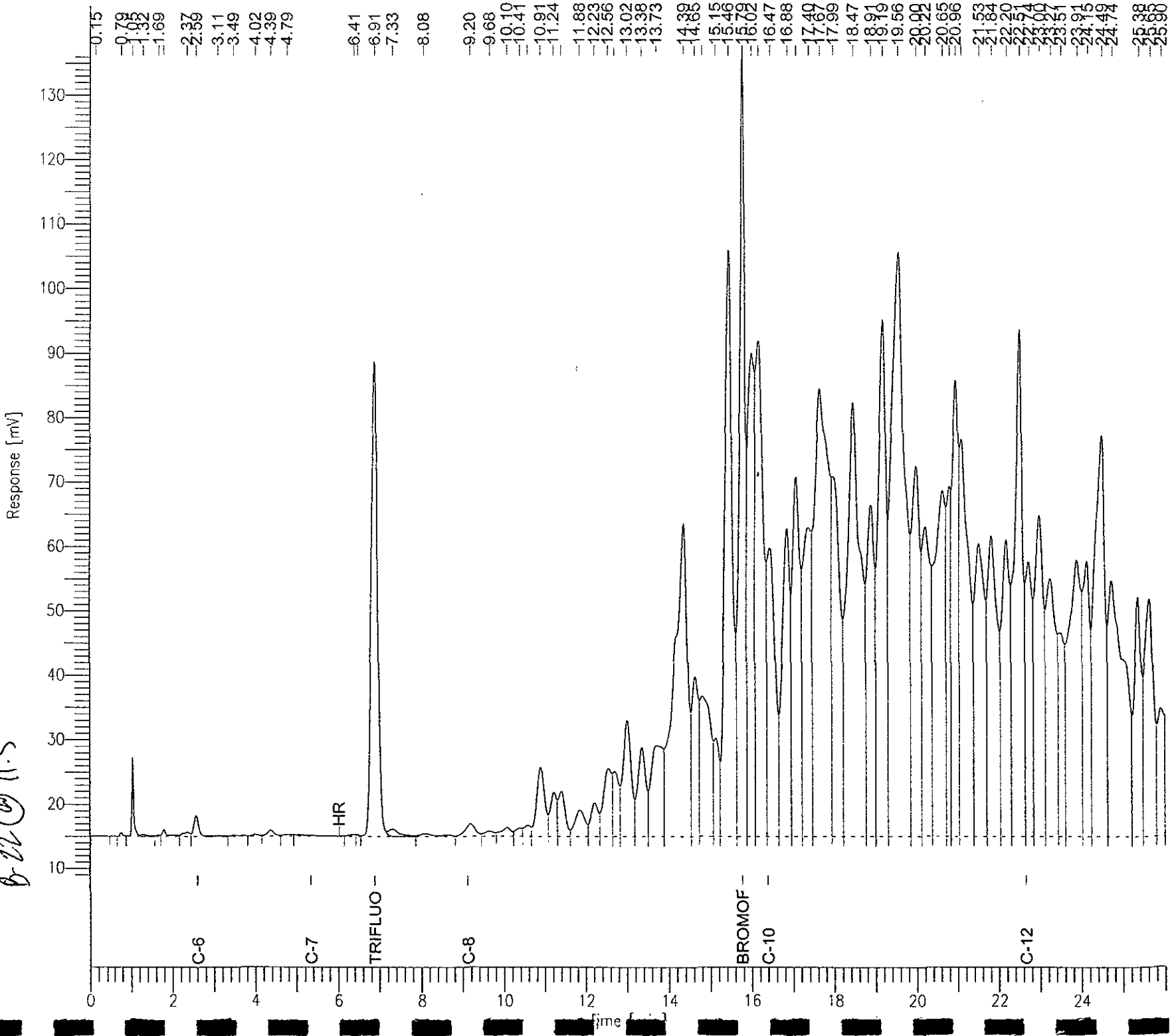
b-17 @ 15.5



GC07 TVH 'A' Data File RTX 502

Sample Name : 164817-019_80936
 File Name : G:\GC07\DATA\109A006.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor : 1.0
 End Time : 26.00 min
 Plot Offset: 9 mV
 Sample #: a
 Date : 4/19/03 06:46 PM
 Time of Injection: 4/19/03 06:17 PM
 Low Point : 8.94 mV
 High Point : 136.32 mV
 Plot Scale: 127.4 mV

B-22 (11.5)

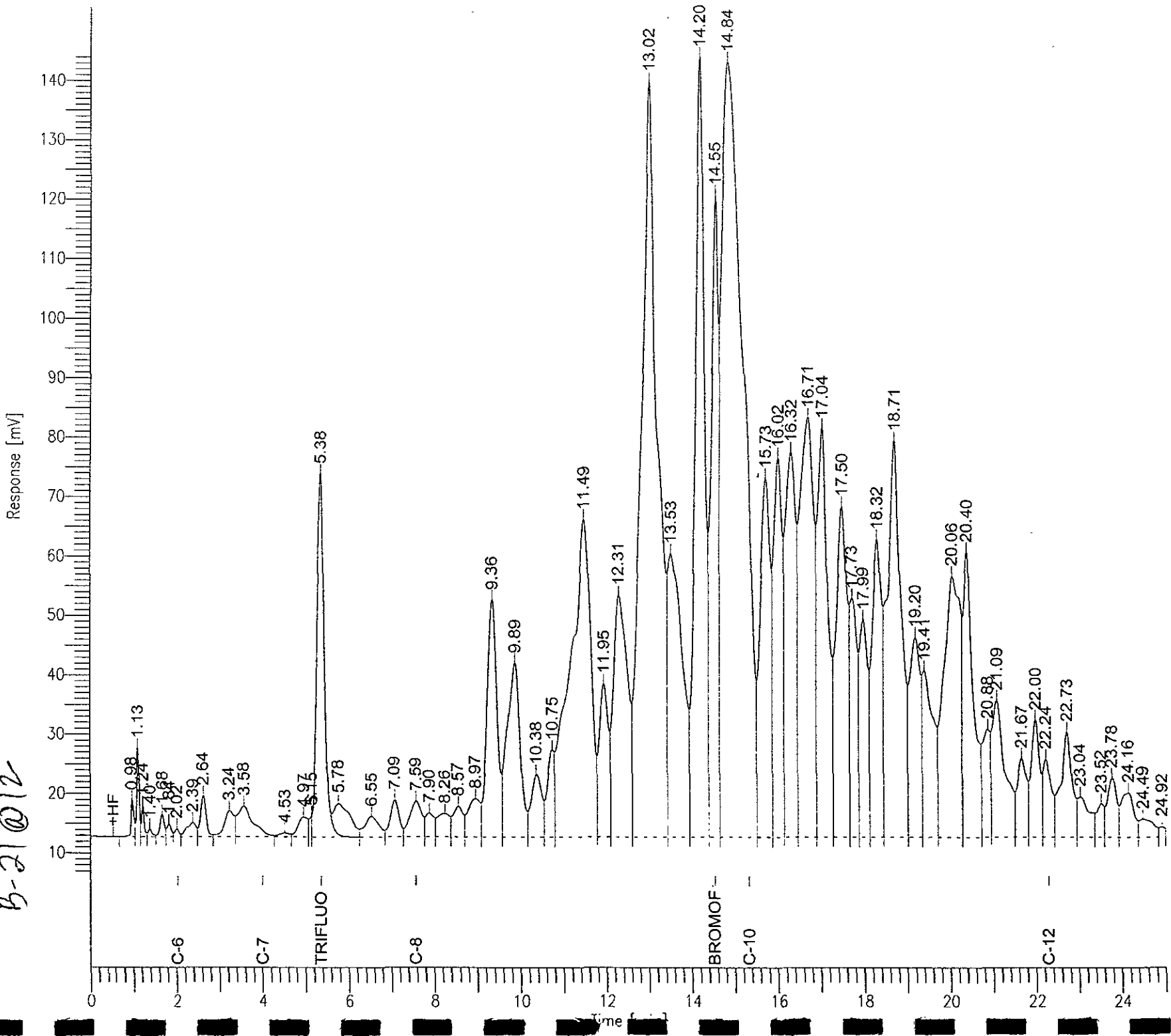


Chromatogram

Sample Name : 164817-022.80906
File Name : G:\GC05\DATA\108G016.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0
End Time : 25.00 min
Plot Offset: 6 mV
Sample #: a
Date : 4/18/03 06:48 PM
Time of Injection: 4/18/03 06:18 PM
Low Point : 6.19 mV
High Point : 144.08 mV
Plot Scale: 137.9 mV

Page 1 of 1

B-21@12



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Field ID:	B-19@12-2	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-025	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	3.0	1.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	82	58-144
Bromofluorobenzene (FID)	108	60-146

Field ID:	B-19@12-1	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-026	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	800	25
Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	58-144
Bromofluorobenzene (FID)	281 *	>LR b 60-146

Field ID:	B-18@12	Diln Fac:	250.0
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-028	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	6,800	250
Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	58-144
Bromofluorobenzene (FID)	229 *	>LR b 60-146

Field ID:	B-18@14	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	80962
Lab ID:	164817-029	Analyzed:	04/21/03

Analyte	Result	RL
Mineral Spirits C7-C12	99	10
Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	58-144
Bromofluorobenzene (FID)	154 *	60-146

*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
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Chromatogram

Page 1 of 1

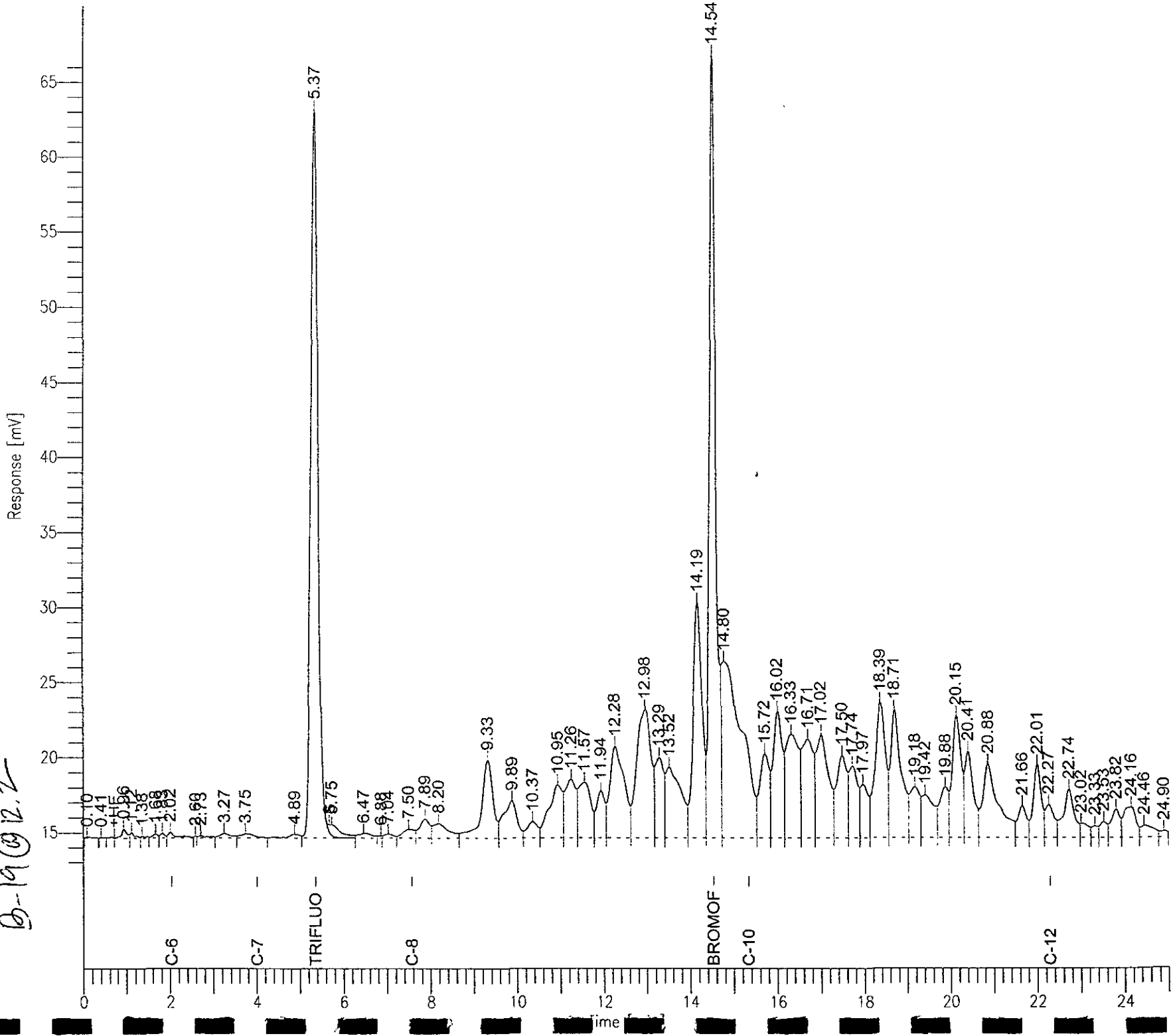
Sample Name : 164817-025_80906
FileName : G:\GC05\DATA\1080040.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: a
Date : 4/19/03 04:16 PM
Time of Injection: 4/19/03 07:56 AM
Low Point : 12.04 mV
Plot Scale: 54.8 mV

End Time : 25.00 min
Plot Offset: 12 mV

High Point : 66.81 mV

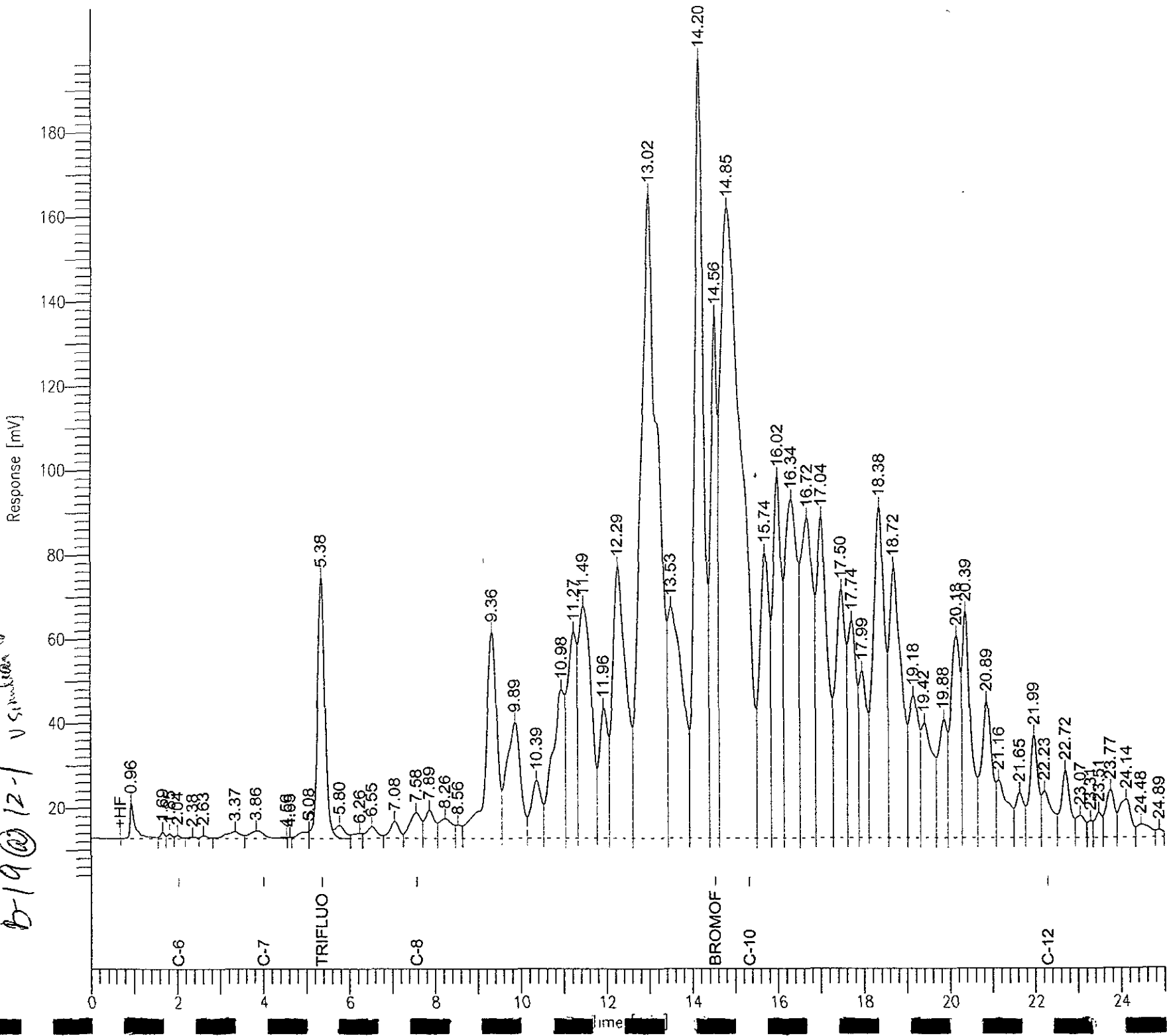
D-19 @ 12.2



Chromatogram

Sample Name : 164817-026,80906.+minsp
File Name : G:\GC05\DATA\108G010.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0
End Time : 25.00 min
Plot Offset: 4 mV
Sample #: a
Date : 4/18/03 03:09 PM
Time of Injection: 4/18/03 02:38 PM
Low Point : 3.54 mV
High Point : 197.70 mV
Plot Scale: 194.2 mV

B-19 @ 12-1 V simulation by HHS

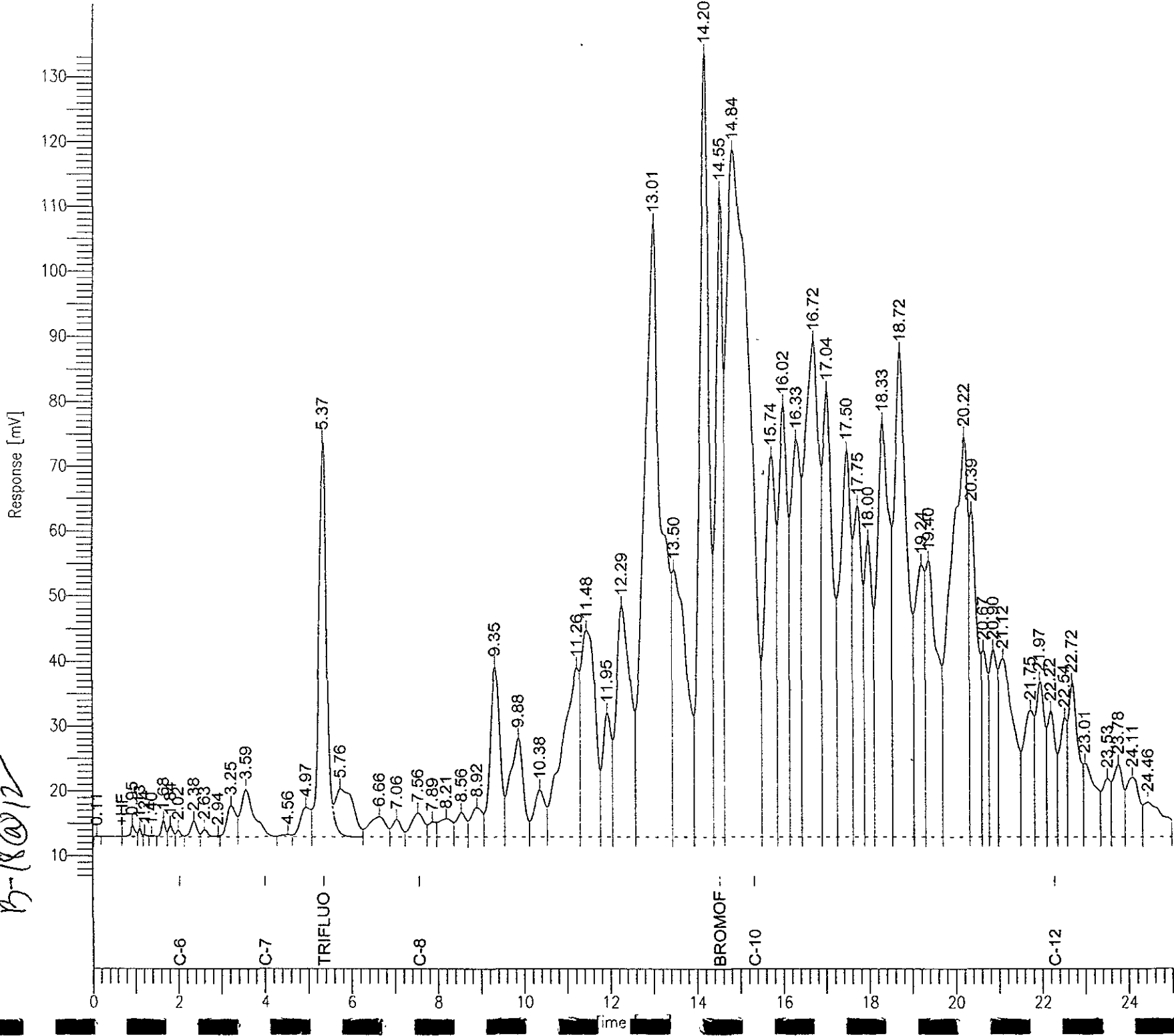


Chromatogram

Sample Name : 164817-028_80906
Sample #: a
Date : 4/19/03 08:16 PM
Time of Injection: 4/19/03 07:49 PM
Method : TVHBTXE
Low Point : 6.93 mV
High Point : 133.64 mV
Start Time : 0.00 min
End Time : 25.00 min
Plot Scale: 126.7 mV
Scale Factor: 1.0
Plot Offset: 7 mV

Page 1 of 1

B-18@12



Chromatogram

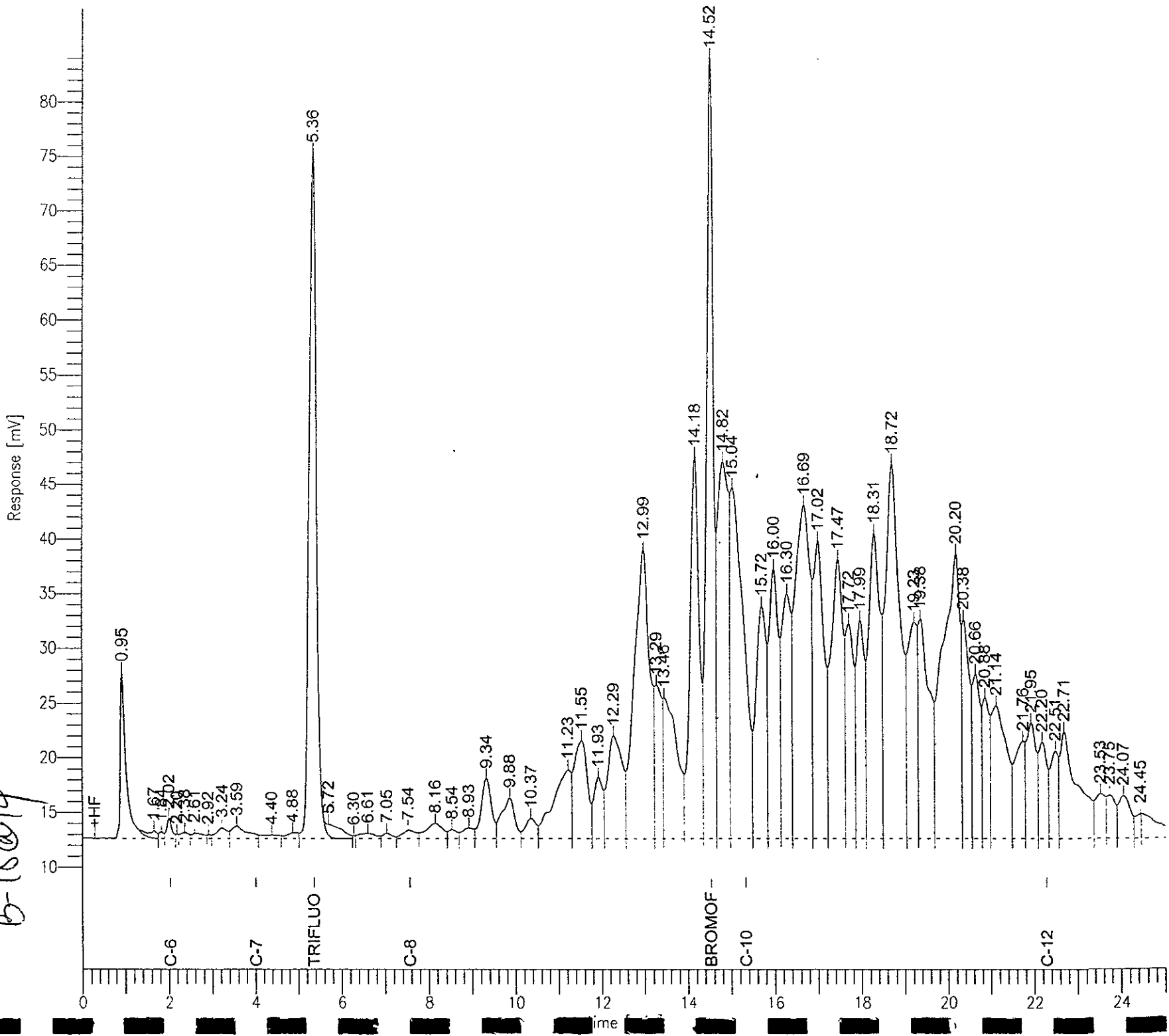
Page 1 of 1

Sample Name : 164817-029.80962
FileName : G:\GC05\DATA\111G006.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

Sample #: a
Date : 4/21/03 04:14 PM
Time of Injection: 4/21/03 03:49 PM
Low Point : 9.06 mV
High Point : 84.06 mV
Plot Scale: 75.0 mV

End Time : 25.00 min
Plot Offset: 9 mV

0-18@14



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Field ID:	B-24@12	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-031	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	400	10
Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	58-144
Bromofluorobenzene (FID)	293 *	>LR b 60-146

Field ID:	B-23@12	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80936
Lab ID:	164817-034	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	2.3	1.0
Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	58-144
Bromofluorobenzene (FID)	124	60-146

Field ID:	B-23@14	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-035	Analyzed:	04/19/03

Analyte	Result	RL
Mineral Spirits C7-C12	11	0.99
Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	58-144
Bromofluorobenzene (FID)	166 *	60-146

Field ID:	B-23@16	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	80906
Lab ID:	164817-036	Analyzed:	04/18/03

Analyte	Result	RL
Mineral Spirits C7-C12	810	25
Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	58-144
Bromofluorobenzene (FID)	274 *	>LR b 60-146

*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
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GC07 TVH 'A' Data File RTX 502

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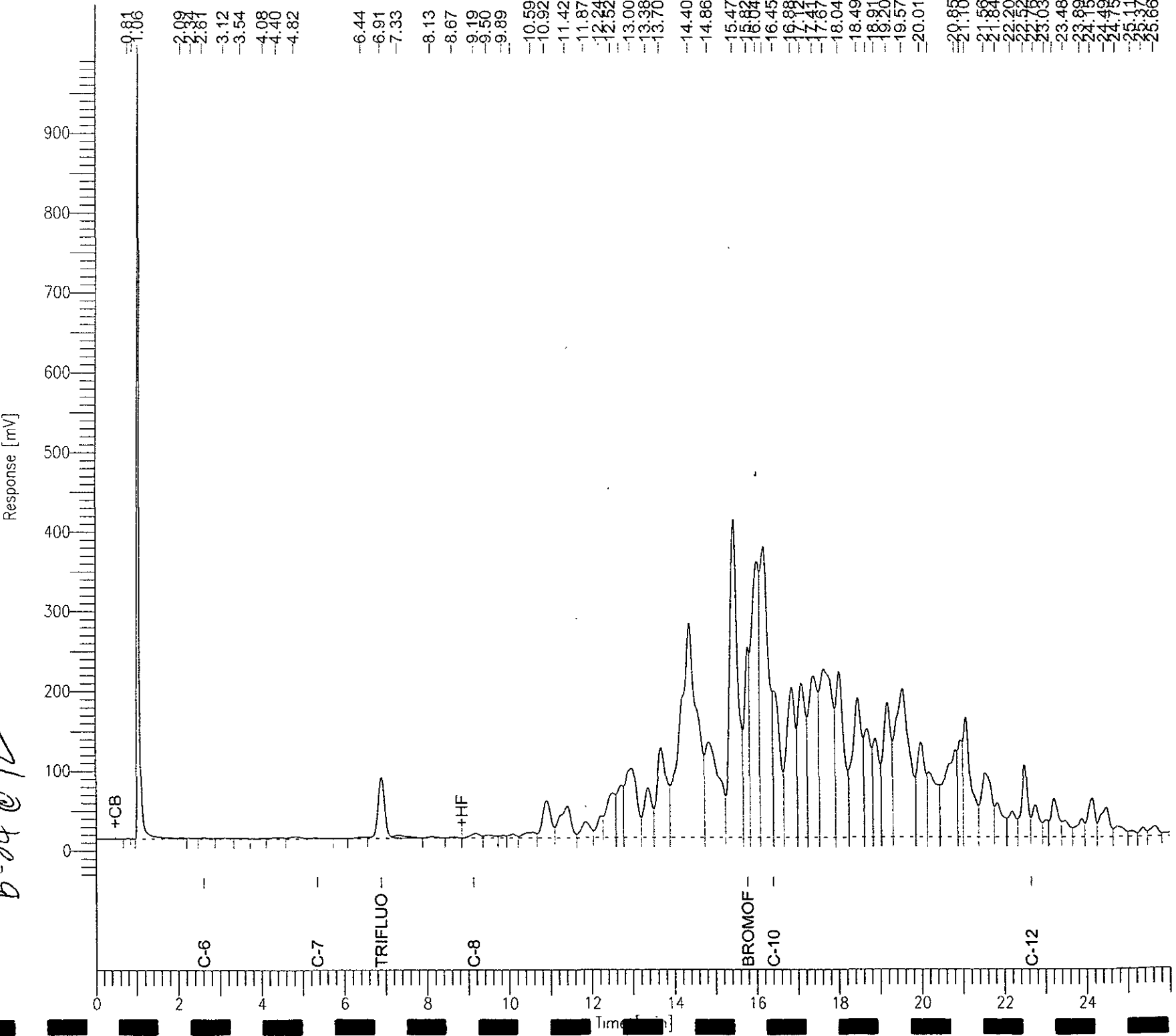
Sample Name : 164817-031,80936
FileName : G:\GC07\DATA\109A011.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 26.00 min
Plot Offset: -34 mV

Sample #: a
Date : 4/19/03 09:44 PM
Time of Injection: 4/19/03 09:12 PM
Low Point : -33.56 mV
Plot Scale: 1033.4 mV

High Point : 999.84 mV

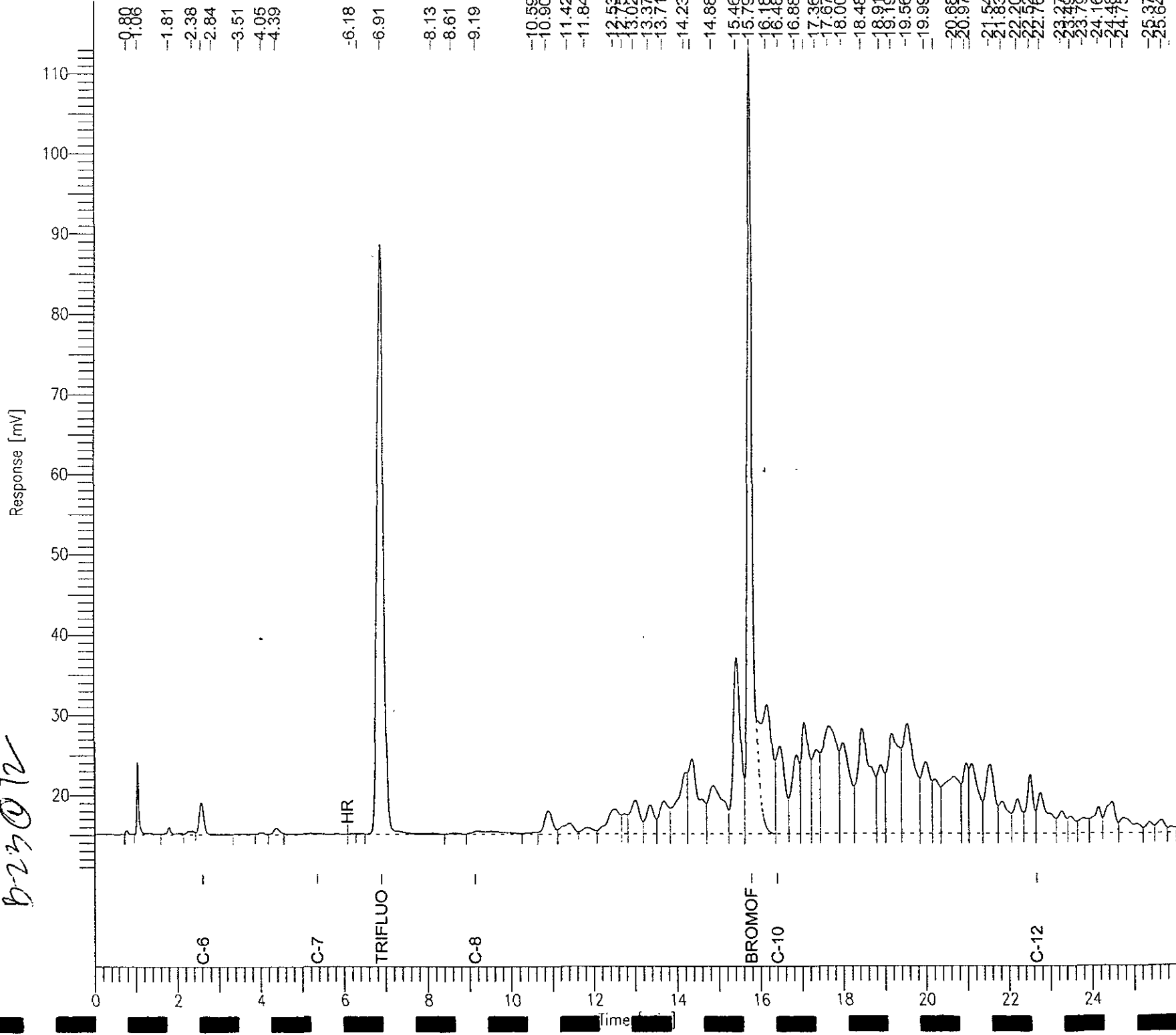
b-24 @ 12



GC07 TVH 'A' Data File RTX 502

Sample Name : 164817-034,80936
 FileName : G:\GC07\DATA\109A007.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor: 1.0
 End Time : 26.00 min
 Plot Offset: 10 mV
 Sample #: a
 Date : 4/19/03 07:20 PM
 Time of Injection: 4/19/03 06:52 PM
 Low Point : 10.19 mV
 Plot Scale: 102.8 mV
 High Point : 113.02 mV
 Page 1 of 1

6-23-02

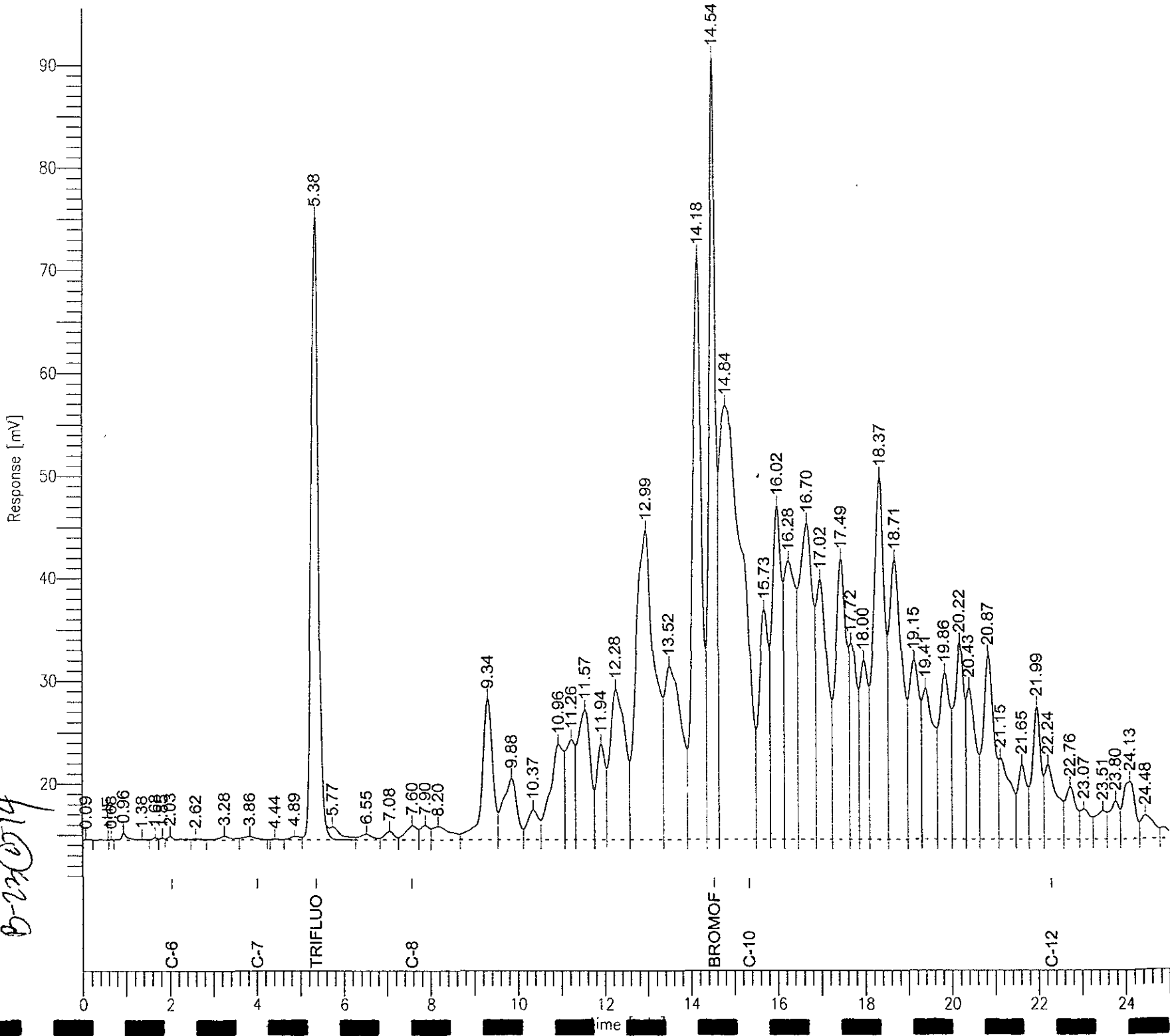


Chromatogram

Sample Name : 164817-035,80906
Sample #: a
Date : 4/19/03 04:16 PM
Date : 4/19/03 04:16 PM
Time of Injection: 4/19/03 08:29 AM
Time of Injection: 4/19/03 08:29 AM
Start Time : 0.00 min
Low Point : 10.72 mV
End Time : 25.00 min
High Point : 90.85 mV
Scale Factor: 1.0
Plot Offset: 11 mV
Plot Scale: 80.1 mV

Page 1 of 1

B-22014

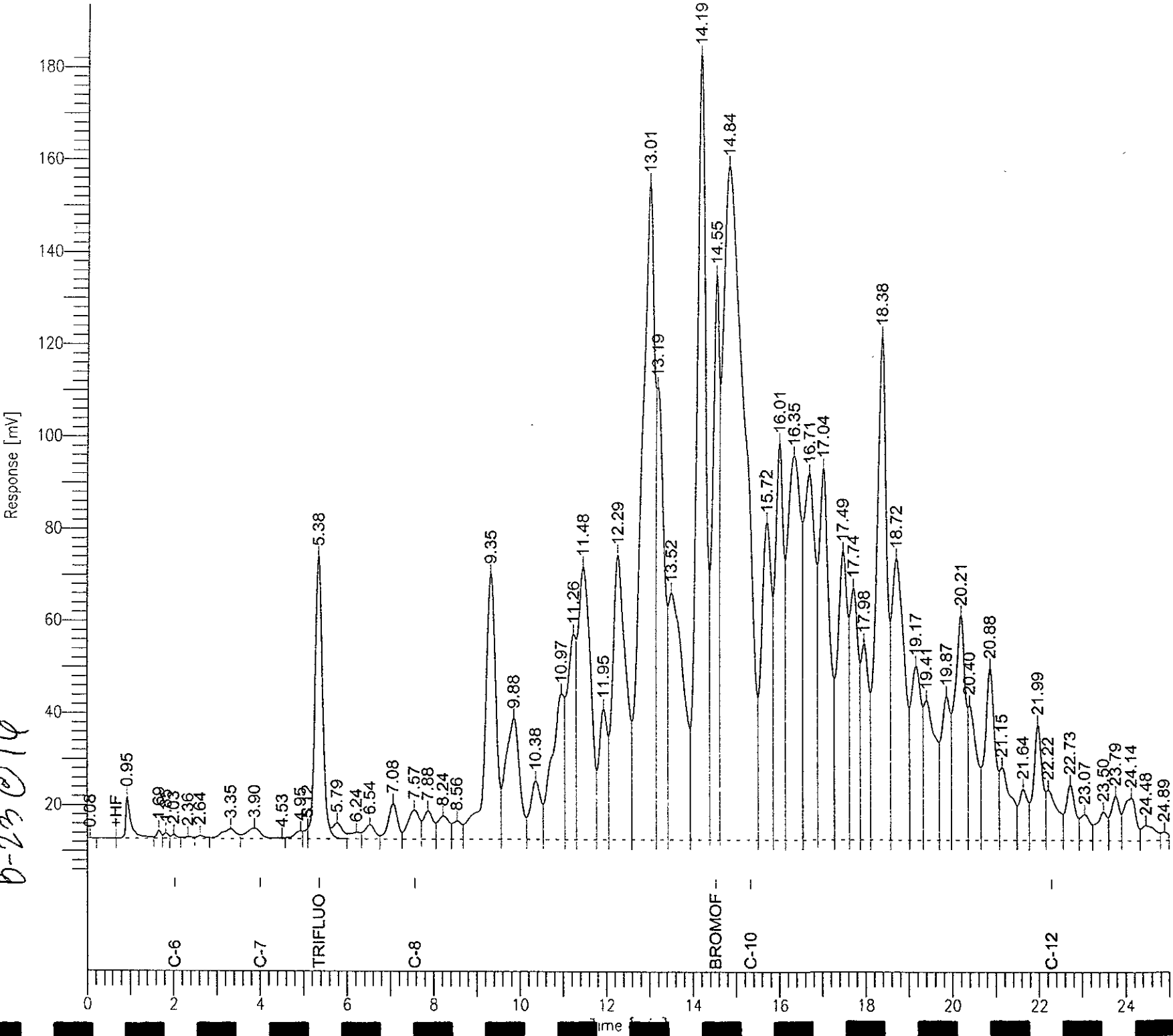


Chromatogram

Sample Name : 164817-036.80906
Sample #: a
Date : 4/18/03 04:57 PM
Time of Injection: 4/18/03 04:30 PM
Method : TVHBTXE
Low Point : 4.22 mV
High Point : 183.07 mV
Scale Factor: 1.0
End Time : 25.00 min
Plot Scale: 178.8 mV
Plot Offset: 4 mV

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0-23 @ 14



Chromatogram

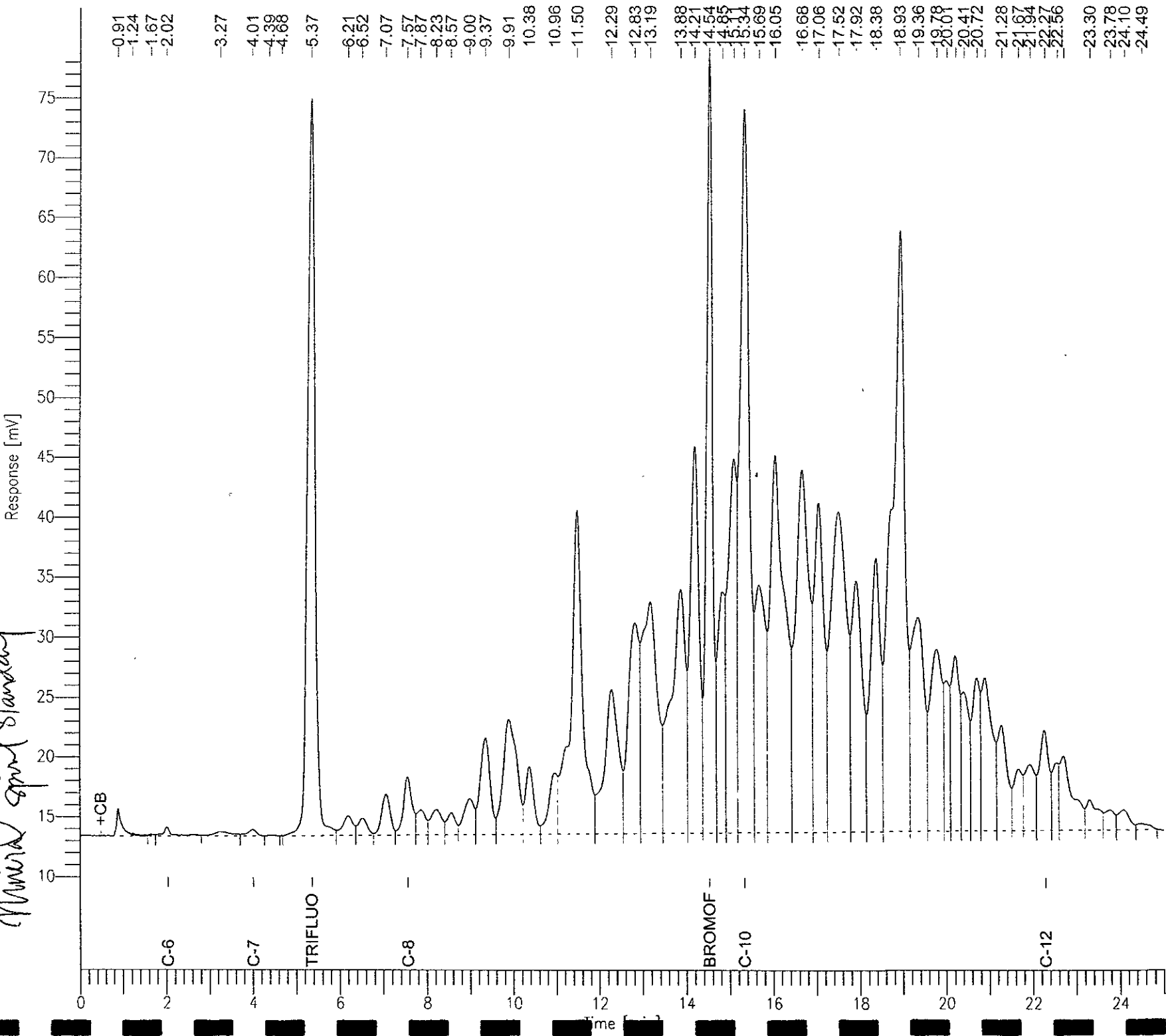
Page 1 of 1

Sample Name : ccv,minsp,80906,03ws0652,5/5000
File Name : G:\GC05\DATA\108G003.RAW
Method :
Start Time : 0.00 min
Scale Factor : 0.0

Sample #: 4/21/03 10:58 AM
Date : 4/21/03 10:58 AM
Time of Injection: 4/18/03 09:54 AM
Low Point : 9.97 mV
Plot Scale: 68.5 mV

High Point : 78.45 mV
Plot Scale: 68.5 mV

Mixed standard

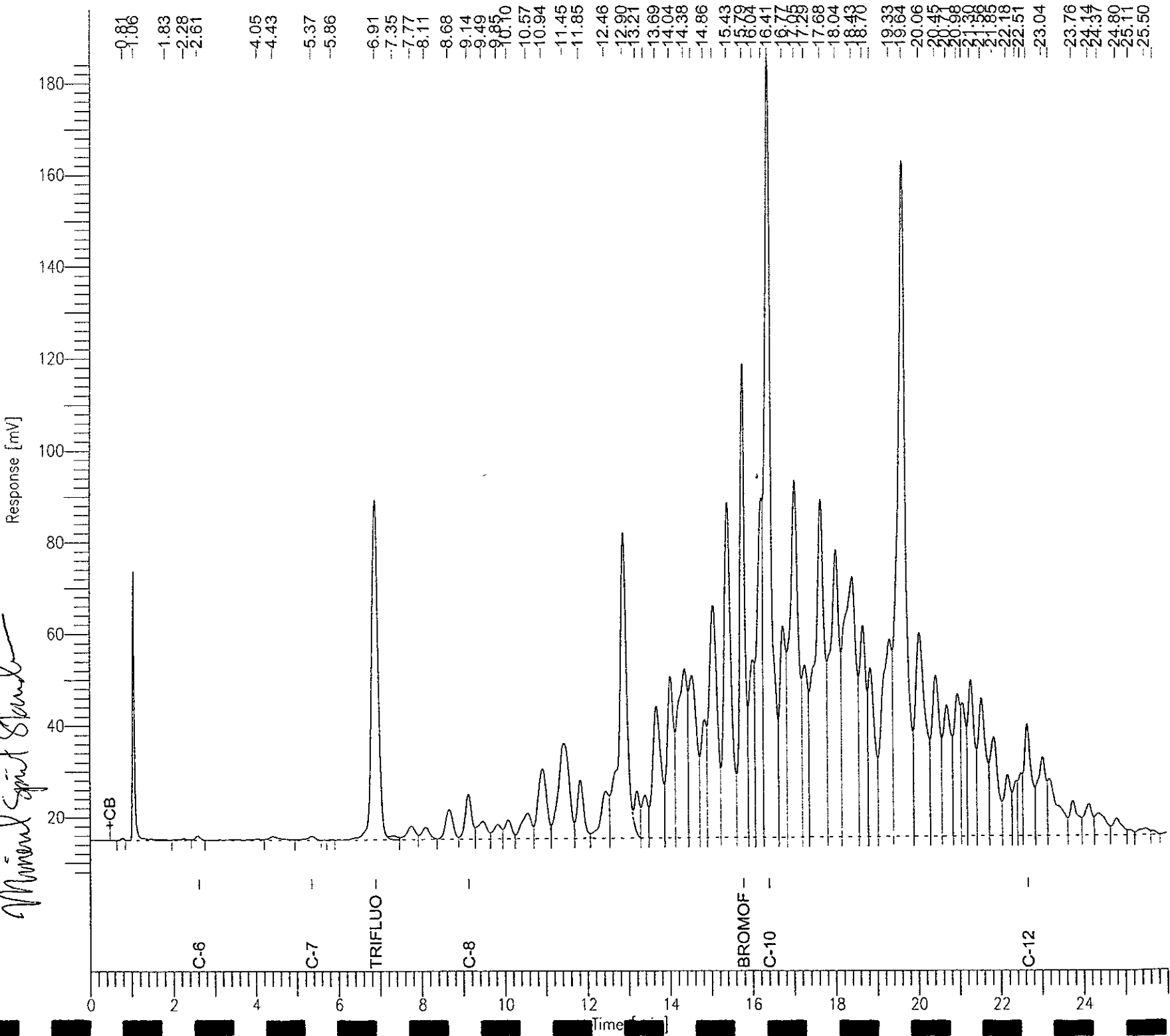


GC07 TVH 'A' Data File RTX 502

Sample Name : ccv,minsp,80936,03wb0652,5/5000
Filename : G:\GC07\DATA\109A003.raw
Method : TVHBTX
Start Time : 0.00 min
Scale Factor: 1.0

Sample #: 4/19/03 04:58 PM
Date : 4/19/03 04:58 PM
Time of Injection: 4/19/03 04:32 PM
Low Point : 6.48 mV
High Point : 185.49 mV
End Time : 26.00 min
Plot Offset: 6 mV
Plot Scale: 179.0 mV

Normal Spirit Sample



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received		

Type:	BLANK	Batch#:	80906
Lab ID:	QC211432	Analyzed:	04/18/03
Diln Fac:	1.000		

Analyte	Result	RL
Mineral Spirits C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	58-144
Bromofluorobenzene (FID)	94	60-146

Type:	BLANK	Batch#:	80936
Lab ID:	QC211551	Analyzed:	04/19/03
Diln Fac:	1.000		

Analyte	Result	RL
Mineral Spirits C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	58-144
Bromofluorobenzene (FID)	96	60-146

Type:	BLANK	Batch#:	80962
Lab ID:	QC211654	Analyzed:	04/21/03
Diln Fac:	1.000		

Analyte	Result	RL
Mineral Spirits C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	58-144
Bromofluorobenzene (FID)	97	60-146

*= Value outside of QC limits; see narrative
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 >LR= Response exceeds instrument's linear range
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Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC211433	Diln Fac:	1.000
Matrix:	Soil	Batch#:	80906
Units:	mg/Kg	Analyzed:	04/18/03

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.042	101	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	116	58-144
Bromofluorobenzene (FID)	102	60-146

Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Field ID:	B-26@11	Diln Fac:	1.000
MSS Lab ID:	164817-001	Batch#:	80906
Matrix:	Soil	Sampled:	04/17/03
Units:	mg/Kg	Received:	04/17/03
Basis:	as received	Analyzed:	04/19/03

Type: MS Lab ID: QC211490

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1164	9.709	8.339	85	44-133

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	58-144
Bromofluorobenzene (FID)	97	60-146

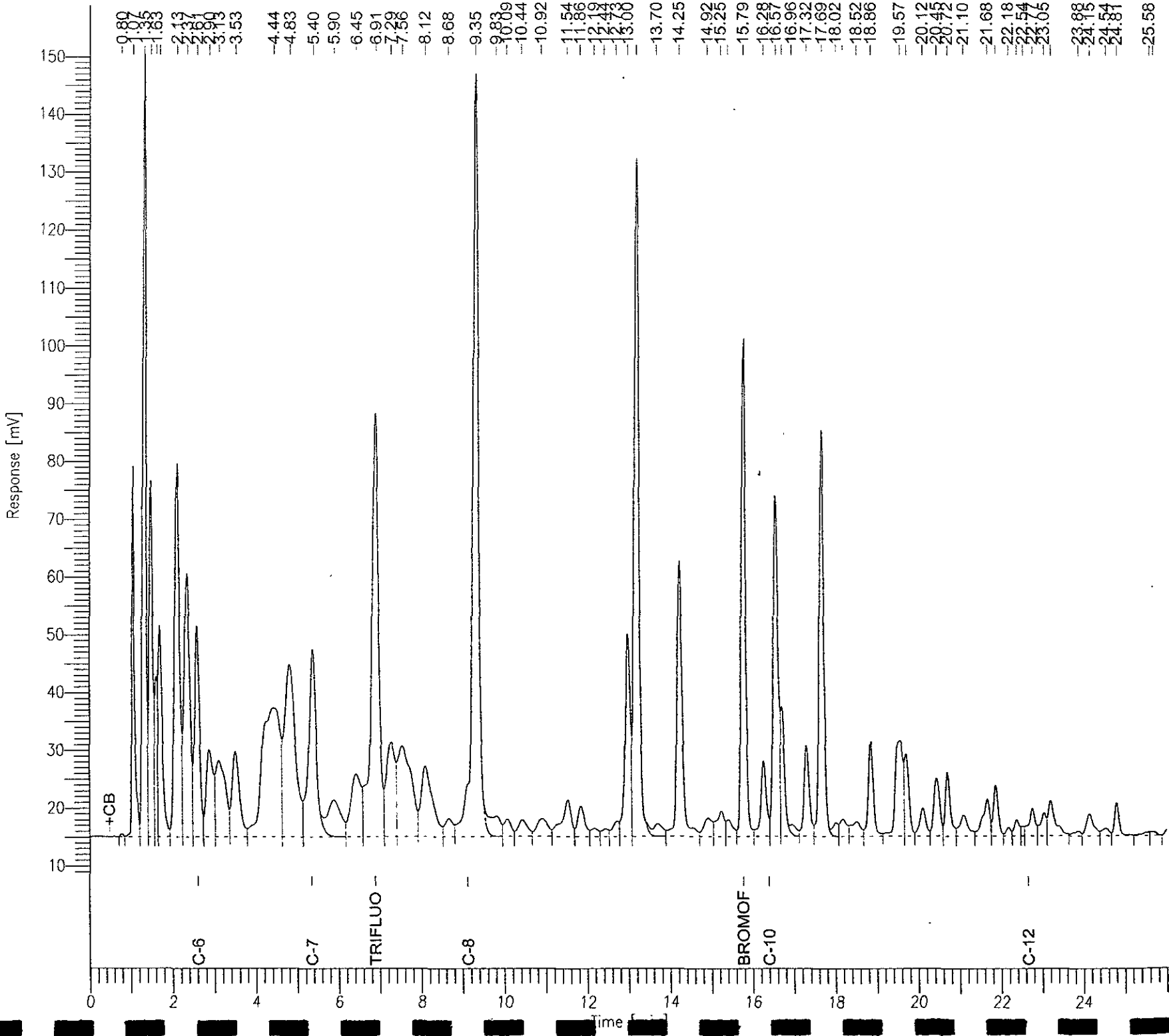
Type: MSD Lab ID: QC211491

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	8.626	88	44-133	3	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	58-144
Bromofluorobenzene (FID)	103	60-146

GC07 TVH 'A' Data File RTX 502

Sample Name : ccv/bs.qc211552.80936.03ws0527.2.5/5000
 File Name : g:\gc07\data\109a002.raw
 Method : TVHBTXE
 Start Time : 0.00 min
 Scale Factor : 1.0
 End Time : 26.00 min
 Plot Offset: 8 mV
 Sample #: 4/19/03 09:50 PM
 Date : 4/19/03 09:50 PM
 Time of Injection: 4/19/03 03:57 PM
 Low Point : 8.25 mV
 High Point : 150.41 mV
 Plot Scale: 142.2 mV



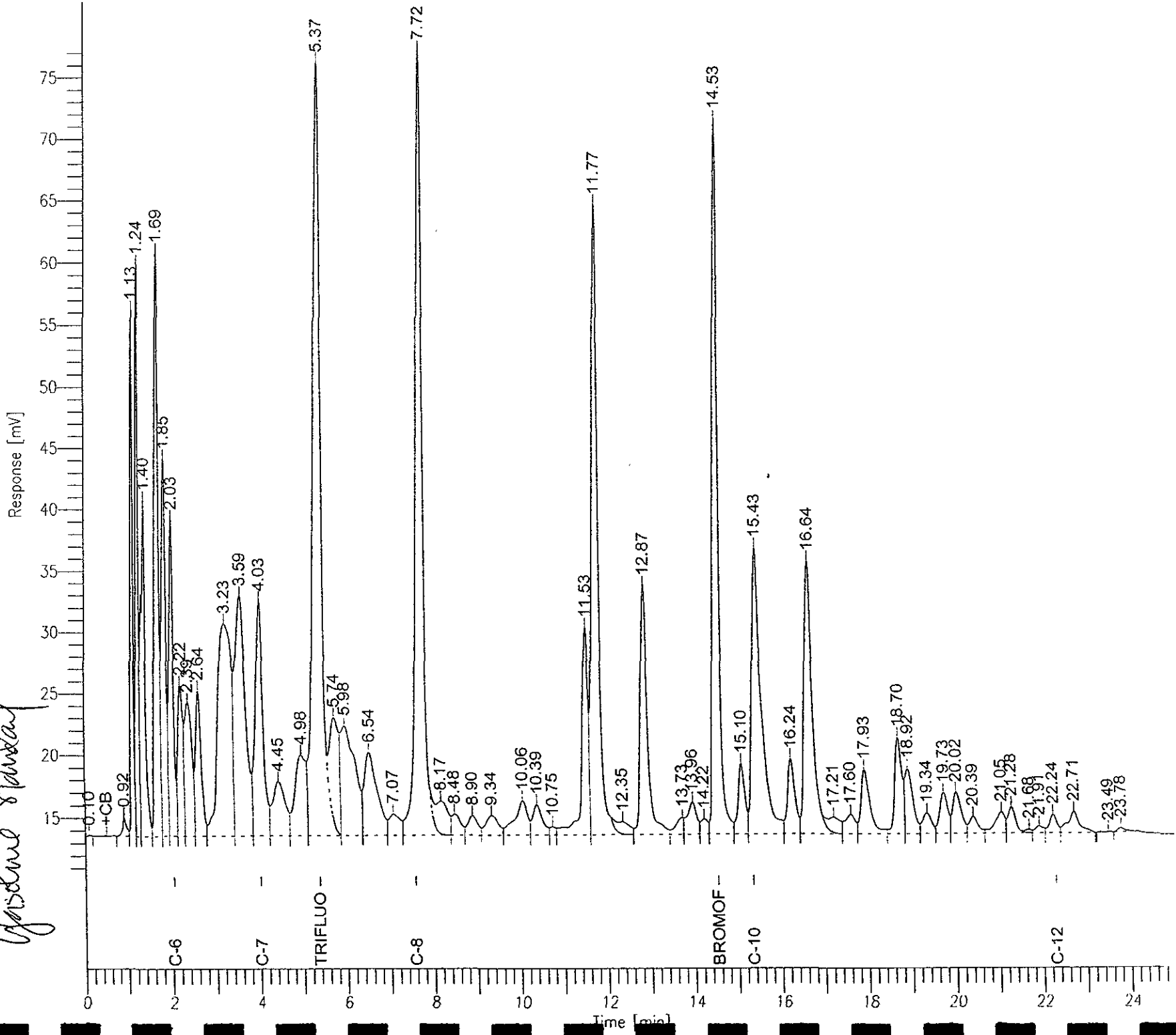
Chromatogram

Sample Name : ccv\lcs_gc211433_80906_03ws0527_2.5/5000
FileName : G:\GC05\DATA\108G002.raw
Method : TVHBTXE
Start Time : 0.00 min
Scale Factor : 1.0

End Time : 25.00 min
Plot Offset: 10 mV

Sample #:
Date : 4/18/03 09:46 AM
Time of Injection: 4/18/03 09:21 AM
Low Point : 10.36 mV
Plot Scale: 66.8 mV
High Point : 77.16 mV

Gasoline Standard



Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	80936
Basis:	as received	Analyzed:	04/19/03

Type: BS Lab ID: QC211552

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.772	95	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	58-144
Bromofluorobenzene (FID)	91	60-146

Type: BSD Lab ID: QC211556

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	9.547	95	78-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	108	58-144
Bromofluorobenzene (FID)	98	60-146

Total Volatile Hydrocarbons

Lab #:	164817	Location:	Green City Lofts
Client:	Clayton Group Services	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	80962
Basis:	as received	Analyzed:	04/21/03

Type: BS Lab ID: QC211655

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.27	103	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	58-144
Bromofluorobenzene (FID)	99	60-146

Type: BSD Lab ID: QC211678

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	10.25	102	78-120	0	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	58-144
Bromofluorobenzene (FID)	109	60-146