United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 2/22/2012

Subject: Analytical Testing Results - Project R33911
SDG: 12046B

From: Brenda Bettencourt, Director
EPA Region 9 Laboratory
MTS-2

To: Richard Fetzer
US EPA Region 3, Eastern Response Branch
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Purgeable Petroleum Hydrocarbons by GC/FID

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12046B
Project Number: R33911	**100 Gypsum Road**	**Reported:** 02/22/12 15:28
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
HW11-P	1202038-01	Water	02/13/12 15:22	02/15/12 09:45
HW53	1202038-02	Water	02/13/12 14:57	02/15/12 09:45
HW53-P	1202038-03	Water	02/13/12 15:17	02/15/12 09:45
TB42	1202038-04	Water	02/13/12 10:50	02/15/12 09:45
FB17	1202038-05	Water	02/14/12 09:09	02/15/12 09:45
HW57-P	1202038-06	Water	02/14/12 10:31	02/15/12 09:45
HW59	1202038-07	Water	02/14/12 10:33	02/15/12 09:45
TB44	1202038-08	Water	02/14/12 07:05	02/15/12 09:45
HW11	1202038-09	Water	02/13/12 15:05	02/15/12 09:45
TB43	1202038-10	Water	02/13/12 10:55	02/15/12 09:45
HW27	1202038-12	Water	02/13/12 10:37	02/15/12 09:45
HW27z	1202038-13	Water	02/13/12 10:38	02/15/12 09:45
TB40	1202038-14	Water	02/13/12 07:15	02/15/12 09:45
HW03	1202038-15	Water	02/14/12 15:18	02/15/12 09:45
HW03z	1202038-16	Water	02/14/12 15:19	02/15/12 09:45
TB46	1202038-17	Water	02/14/12 09:15	02/15/12 09:45
HW55	1202038-18	Water	02/13/12 10:21	02/15/12 09:45
TB41	1202038-19	Water	02/13/12 07:20	02/15/12 09:45
HW57	1202038-20	Water	02/14/12 10:07	02/15/12 09:45
TB45	1202038-21	Water	02/14/12 07:10	02/15/12 09:45
HW58	1202038-22	Water	02/14/12 14:47	02/15/12 09:45
TB47	1202038-23	Water	02/14/12 09:20	02/15/12 09:45

SDG ID 12046B

Work Order(s)

1202038

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Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12046B
Project Number: R33911	**100 Gypsum Road**	**Reported:** 02/22/12 15:28
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202038-01									**Water - Sampled: 02/13/12 15:22**
Sample ID: HW11-P									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			110 %	*76-121%*		"	"	"	
Lab ID: 1202038-02									**Water - Sampled: 02/13/12 14:57**
Sample ID: HW53									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			109 %	*76-121%*		"	"	"	
Lab ID: 1202038-03									**Water - Sampled: 02/13/12 15:17**
Sample ID: HW53-P									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		"	"	"	
Lab ID: 1202038-04									**Water - Sampled: 02/13/12 10:50**
Sample ID: TB42									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		"	"	"	
Lab ID: 1202038-05									**Water - Sampled: 02/14/12 09:09**
Sample ID: FB17									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	
Lab ID: 1202038-06									**Water - Sampled: 02/14/12 10:31**
Sample ID: HW57-P									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	
Lab ID: 1202038-07									**Water - Sampled: 02/14/12 10:33**
Sample ID: HW59									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			113 %	*76-121%*		"	"	"	
Lab ID: 1202038-08									**Water - Sampled: 02/14/12 07:05**
Sample ID: TB44									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			109 %	*76-121%*		"	"	"	
Lab ID: 1202038-09									**Water - Sampled: 02/13/12 15:05**
Sample ID: HW11									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380

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Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12046B
Project Number: R33911	**100 Gypsum Road**	**Reported:** 02/22/12 15:28
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202038-09									**Water - Sampled: 02/13/12 15:05**
Sample ID: HW11									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		*B2B0075*	*02/15/12*	*02/15/12*	
Lab ID: 1202038-10									**Water - Sampled: 02/13/12 10:55**
Sample ID: TB43									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	
Lab ID: 1202038-12									**Water - Sampled: 02/13/12 10:37**
Sample ID: HW27									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			111 %	*76-121%*		"	"	"	
Lab ID: 1202038-13									**Water - Sampled: 02/13/12 10:38**
Sample ID: HW27z									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			111 %	*76-121%*		"	"	"	
Lab ID: 1202038-14									**Water - Sampled: 02/13/12 07:15**
Sample ID: TB40									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		"	"	"	
Lab ID: 1202038-15									**Water - Sampled: 02/14/12 15:18**
Sample ID: HW03									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			111 %	*76-121%*		"	"	"	
Lab ID: 1202038-16									**Water - Sampled: 02/14/12 15:19**
Sample ID: HW03z									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			108 %	*76-121%*		"	"	"	
Lab ID: 1202038-17									**Water - Sampled: 02/14/12 09:15**
Sample ID: TB46									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			110 %	*76-121%*		"	"	"	
Lab ID: 1202038-18									**Water - Sampled: 02/13/12 10:21**
Sample ID: HW55									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	J, Q6, U	50	ug/L	B2B0075	02/15/12	02/15/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		"	"	"	
Lab ID: 1202038-19									**Water - Sampled: 02/13/12 07:20**

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Project Number: R33911	**100 Gypsum Road**	**Reported:** 02/22/12 15:28
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1202038-19									**Water - Sampled: 02/13/12 07:20**
Sample ID: TB41									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			113 %	*76-121%*		"	"	"	
Lab ID: 1202038-20									**Water - Sampled: 02/14/12 10:07**
Sample ID: HW57									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	
Lab ID: 1202038-21									**Water - Sampled: 02/14/12 07:10**
Sample ID: TB45									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			112 %	*76-121%*		"	"	"	
Lab ID: 1202038-22									**Water - Sampled: 02/14/12 14:47**
Sample ID: HW58									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	
Lab ID: 1202038-23									**Water - Sampled: 02/14/12 09:20**
Sample ID: TB47									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2B0075	02/15/12	02/16/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			114 %	*76-121%*		"	"	"	

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Project Number: R33911	**100 Gypsum Road**	**Reported:** 02/22/12 15:28
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B2B0075 - 5030 P&T TPH-G - TPH - Purgeable										**Prepared & Analyzed: 02/15/12**
								Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control		
Blank (B2B0075-BLK1)										
TPH as Gasoline	ND	U	50	ug/L						
Surrogate: a,a,a-Trifluorotoluene	*140*			"	*125*		112	*76-121*		
Blank (B2B0075-BLK2)										
TPH as Gasoline	ND	U	50	ug/L						
Surrogate: a,a,a-Trifluorotoluene	*143*			"	*125*		114	*76-121*		
LCS (B2B0075-BS1)										
TPH as Gasoline	482		50	ug/L	500		96	75-114		200
Surrogate: a,a,a-Trifluorotoluene	*143*			"	*125*		115	*76-121*		
LCS (B2B0075-BS2)										
TPH as Gasoline	505		50	ug/L	500		101	75-114		200
Surrogate: a,a,a-Trifluorotoluene	*143*			"	*125*		115	*76-121*		
Matrix Spike (B2B0075-MS1)		**Source: 1202038-18**								
TPH as Gasoline	474		50	ug/L	500	ND	95	71-114		11
Surrogate: a,a,a-Trifluorotoluene	*139*			"	*125*		112	*76-121*		
Matrix Spike (B2B0075-MS2)		**Source: 1202038-20**								
TPH as Gasoline	454		50	ug/L	500	ND	91	71-114		11
Surrogate: a,a,a-Trifluorotoluene	*141*			"	*125*		112	*76-121*		
Matrix Spike Dup (B2B0075-MSD1)		**Source: 1202038-18**								
TPH as Gasoline	533		50	ug/L	500	ND	107	71-114	**12**	11
Surrogate: a,a,a-Trifluorotoluene	*140*			"	*125*		112	*76-121*		
Matrix Spike Dup (B2B0075-MSD2)		**Source: 1202038-20**								
TPH as Gasoline	503		50	ug/L	500	ND	101	71-114	10	11
Surrogate: a,a,a-Trifluorotoluene	*142*			"	*125*		113	*76-121*		

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Qualifiers and Comments

Q6 Matrix spike/matrix spike duplicate precision criteria were not met for this analyte (see MS/MSD results for this batch in QC summary).

J The reported result for this analyte should be considered an estimated value.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

ICF International / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

DATE: February 28, 2012

TO: Richard Bauer, Chemistry TOM, EPA Region 9, Laboratory Section, MTS-2

FROM: Ex. 4 - CBI

SUBJECT: Analytical Results for TDF 01001084

As assigned under EPA Contract No. EP-W-06-041, TDF 01001084, ESAT completed analysis of 22 water samples for the Dimock Residential Groundwater Site project, Case R33911, SDG 12046B, Work Order 1202038 for purgeable TPH following EPA Region 9 Laboratory SOP 380 based on method SW5030B, SW5035, and SW8015C. The draft analytical report and raw data package are attached.

If you have any questions regarding this information please contact me at extension 22390.

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EPA Region 9 Laboratory

DATA PACKAGE

Analysis:	**TPH-gas**
Project Number:	**R33911**
SDG Number:	**12046B**
Work Order:	**1202038**
ESAT DCN:	**14531**

Contents

- **Review Forms**
- **Tracking Forms**
- ***Sample Preparation***
- **Data**
  -Initial Calibration Data
  -Sample Data
- ***Miscellaneous Data***
- **Standard Records**
- ***Canister Certification Data***

Sections in italics are included as applicable

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: 00001

REVIEW FORMS

General Project Management and ESAT Contractor Oversight Review

Project Number: R33911

SDG: 12046B

Analysis: purgeable TPH

Number of Pages: 227

Reviewer: Baver

- ☑ Review project notes and requirements (including TDF) and verify that correct analytical procedures and any special instructions were followed. Note any significant deviations or omissions in report narrative or return to contractor for correction.
- ☑ Review project memo field for each work order and include information pertinent to data users in report narrative. (Information important only to chemist reviewing the raw data package should be included in data package, but not in the report narrative).
- ☑ Review chain of custody documentation and verify that information in report corresponds correctly. Verify that any sample shipping or handling issues are properly documented and reported.
- ☑ Review analytical report and QC report and verify that qualifier flags for holding times, sample handling, surrogates, blanks, blank spikes, matrix QC, and calibration range have been appropriately applied.
- ☑ Review LIMS Data Entry table for unaddressed outliers.
- ☑ Verify that all major sections of data package are present.

Comments: Ex. 4 - CBI

Reviewer Signature Ex. 4 - CBI Date 2/22/12

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: 00003

ESAT Region 9 | **ICF International**
Case: R33911 | **Analysis:** TPH-gas | **TDF:** 01001084 | **Matrix:** water
DCN: 14531 | **Site:** Dimock Residential Groundwater Site | **SDG:** 12046B

ESAT REGION 9 DATA PACKAGE TECHNICAL REVIEW GUIDE

Reviewer:	Package Prep (P): Ex. 4 - CBI	Technical (T): Ex. 4 - CBI	Final (F): Ex. 4 - CBI
	Date: 02.20.12	Date: 2/21/12	Date: 2/21/12

P T F N/A (indicates that the item is present and reviewed for accuracy and completeness)

Report Section

- ✓ ✓ ✓ ESAT Cover Memo (original)
- ✓ ✓ ✓ TDF included and requirements met (e.g. project analytes, project QLs, special procedures)
- ✓ ✓ ✓ Draft LIMS Report

Data Package Cover

- ✓ ✓ ✓ Case, SDG, Work Order(s), TDF#-DCN [First numbered page in the data package]

Review Forms

- ✓ ✓ ✓ EPA Review Form and Technical Review Guide included and complete.
- ¤ ¤ ¤ ✓ LIMS memo field; include as applicable.
- ¤ ¤ ¤ ✓ Discrepancy form(s) include as applicable
- ✓ ✓ ✓ ¤ Daily folder review forms are complete and reviewed; QC outliers noted
- ✓ ✓ ✓ ¤ Analysis matrix listing all analytical runs is included, as applicable

Tracking Forms

- ✓ ✓ ✓ Work Orders and Chains of Custody forms included and reviewed.
- ¤ ✓ ✓ Preparation and analyses performed within holding times. Qualify and/or explain deviations in memo field
- ✓ ✓ ✓ ¤ Cooler temperatures recorded on COC are within specification. Qualify and/or explain deviations in memo field

Sample Preparation

- ¤ ✓ ✓ ¤ Bench sheets and extraction logs, where applicable
- ¤ ¤ ¤ ✓ Sample cleanup data and records (e.g. GPC logs)
- ¤ ¤ ¤ ✓ Homogenization and Moisture data

Initial Calibration Data

Group ICAL data by instrument and analysis date:

- ✓ ✓ ¤ ¤ All ICALs associated with samples are present, reviewed, and pass SOP criteria. (If failure, discrepancy form must be included)
- ✓ ✓ ¤ ¤ Check for misidentification (e.g. isomers such as dichlorobenzene)

Sample Data

Group data for the following areas in sections by method, instrument, and analysis date.

Continuing Calibrations

- ✓ ✓ ¤ ¤ All CCALs associated with samples are present and meet SOP criteria. If not, discrepancy form included.
- ✓ ✓ ¤ Average RRFs from associated ICAL are correctly transposed to CCAL summary form
- ✓ ✓ ¤ CCAL RRFs and %Ds calculated correctly. Check at least 1 surrogate & 1 target analyte
- ✓ ✓ ¤ Check %Ds and RRFs against SOP criteria

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ESAT Region 9 | **ICF International**
Case: R33911 | **Analysis:** TPH-gas | **TDF:** 01001084 | **Matrix:** water
DCN: 14531 | **Site:** Dimock Residential Groundwater Site | **SDG:** 12046B

P T F N/A (indicates that the item is present and reviewed for accuracy and completeness)

Quantitation Limit Standards
¤ ✓ ¤ ¤ Percent recoveries of 60-140% met; outliers noted and flagged

Laboratory Control Samples
✓ ✓ ✓ Percent recoveries met. If not, discrepancy form included unless not required because: _____

Method Blanks
¤ ✓ ✓ Present and no target analyte results > ½ QL; if not, flag data as appropriate

MS/MSD or Duplicate Data
✓ ✓ ✓ ¤ Percent recoveries and RPDs were met; outliers are noted and flagged. Note significant deviations in LIMS memo field

Sample Data
¤ ✓ ✓ ¤ Bench sheet(s) and injection or run logs present for all samples
¤ ¤ ¤ ✓ Internal standards meet SOP criteria
✓ ✓ ✓ ¤ System Monitoring Compound/Surrogate recoveries met; outliers are noted and flagged
✓ ✓ ¤ All non-detects are reported as ND on the quantitation report and explained for QC samples
✓ ✓ ¤ Quantitation results are correctly calculated. Check at least one surrogate or one target analyte
¤ ¤ ✓ Mass spectral data are present for all target analytes
✓ ✓ ¤ ¤ Check for manual integrations (m) identified on quantitation reports. Verify presence of manual integration data, initialed and dated by a supervisor
✓ ✓ ¤ ¤ Compound concentrations exceeding the upper range of the instrument are reported from the dilution run
✓ ✓ Check for carry-over contamination
¤ ¤ ¤ ✓ Dilutions and reruns appropriate.
✓ ¤ ✓ TICs properly identified; TIC report and data present; proper TIC name used (Organics)
✓ ✓ ✓ ¤ QC outliers are appropriately flagged in LIMS

Miscellaneous Data
¤ ¤ ¤ ✓ Storage blank data present analyzed on the same day when was received
¤ ¤ ¤ ✓ Other data, as applicable _____

Ex. 4 - CBI
02.20.12

Standards Records
✓ ✓ ✓ ¤ Standards records from LIMS (and logbook pages as needed)

Canister Certification Data (TO 15 only)
¤ ¤ ¤ ✓ Data and supporting QC present

For ESAT Files: ESAT Review form (original) and Cover Memo (copy)

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12046B-TPH-gas-14531.docx

Organics Daily Folder Preparation/Technical Review Guide

Analysis Method	**TPH GAS**	**Analyst Initial**	Ex. 4 - CBI	**Reviewer Initial**	Ex. 4 - CBI	**Batch/ Sequence**	2010034
Instrument ID	**AG 5975 D**	**Date Analyzed**	01.24.12	**Date**	01/25/12	**Chemstation Last Update**	Wed Jan 25 10:49:01 2012
Cases	**CALIBRATION**			**SDGs**	ICAL		

Review each item listed below. As problems are discovered list them in the non-conformance section of the form and provide and explanation in the discussion part of the table.

NA	A	PR	Item Description
	✓	✓	Runlog (Present, legible, peer reviewed)
✓			Tune/ Degradation Standard
	✓	✓	Initial Calibration (SOP criteria for number of levels, concentration, and %RSD). Manual calculation. Include summary for daily review.
✓			Continuing Calibration Verification (frequency, recovery, and %D). Manual calculation.
✓			QLS (level, frequency, and recovery) (include Chemstation summary)
✓			Method / Extraction / Storage Blanks (frequency and contamination levels)
✓			Surrogate Recoveries
✓			IS Areas (SOP criteria met)
✓	✓	✓	LCS (level, frequency, and recovery) (include Chemstation summary) second source
✓			MS/MSD
✓			Samples (within calibration range, results calculated correctly)
✓			Manual Integration Verified
	✓	✓	Standard Prep Log (all pages present, legible, peer reviewed, legible)
✓			Sample Prep/Extraction (all pages present, legible, peer reviewed)
	✓	✓	Others: use methylpentane, trimethylbenzene to establish GAS RET time window

NA = not applicable A = Analyst check PR = Peer Review Check

Non-conformance Report

QC	File ID	Result	QC Limit	High Bias	Low Bias	Flag ND	Flag Hits	Discussion
	O.K		± 20%					
	second source	OK						

G:\USER\ESAT\I Organic Group\daily review GAS D.doc

Organics Daily Folder Preparation/Technical Review Guide

Analysis Method	**TPH GAS**	**Analyst Initial**	Ex. 4 - CBI	**Reviewer Initial**	Ex. 4 - CBI	**Batch/ Sequence**	B2B0075/2020051
Instrument ID	**AG 5975 D**	**Date Analyzed**	02.15.12	**Date**	2/16/12	**Chemstation Last Update**	Wed Jan 25 10:49:01 2012
Cases	**R33911**			**SDGs**	**12046B**		

Review each item listed below. As problems are discovered list them in the non-conformance section of the form and provide and explanation in the discussion part of the table.

NA	A	PR	Item Description
	✓	✓	Runlog (Present, legible, peer reviewed)
✓			Tune/ Degradation Standard
	✓	✓	Initial Calibration (SOP criteria for number of levels, concentration, and %RSD). Manual calculation. Include summary for daily review.
	✓	✓	Continuing Calibration Verification (frequency, recovery, and %D). Manual calculation.
	✓	✓	QLS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	Method / Extraction / Storage Blanks (frequency and contamination levels)
	✓	✓	Surrogate Recoveries
✓			IS Areas (SOP criteria met)
	✓	✓	LCS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	MS/MSD
	✓	✓	Samples (within calibration range, results calculated correctly)
✓			Manual Integration Verified
✓			Standard Prep Log (all pages present, legible, peer reviewed, legible)
✓			Sample Prep/Extraction (all pages present, legible, peer reviewed)
✓			Others:

NA = not applicable A = Analyst check PR = Peer Review Check

Non-conformance Report

QC	File ID	Result	QC Limit	High Bias	Low Bias	Flag ND	Flag Hits	Discussion

G:\USER\ESAT\1 Organic Group\daily review GAS D.doc

USEPA Region 9 Laboratory
Organic Analysis Summary

Ex. 4 - CBI

Case: R33911
SDG: 12046B
Analysis: TPH GRO

Sample ID	Sample Runs	
[redacted]	AG5975D	INSTRUMENT
[redacted]	2/15/2012	
[redacted]	2020051	
1202038-01	RPT	
1202038-02	RPT	
1202038-03	RPT	
1202038-04	RPT	
1202038-05	RPT	
1202038-06	RPT	
1202038-07	RPT	
1202038-08	RPT	
1202038-09	RPT	
1202038-10	RPT	
1202038-12	RPT	
1202038-13	RPT	
1202038-14	RPT	
1202038-15	RPT	
1202038-16	RPT	
1202038-17	RPT	
1202038-18	RPT	
B2B0075-MS1	RPT	
B2B0075-MSD1	RPT	
1202038-19	RPT	
1202038-20	RPT	
B2B0075-MS2	RPT	
B2B0075-MSD2	RPT	
1202038-21	RPT	
1202038-22	RPT	
1202038-23	RPT	
	B2B0075-BLK1	
	B2B0075-BLK2	
	B2B0075-BS1	
	B2B0075-BS2	

Definitions

RPT	Report
NU	Not Used
OC	Over calibration
OTT	Out of tune time
nX	Dilution, where n is dilution factor

SAMPLE TRACKING FORMS

WORK ORDER

Printed: 2/15/2012 12:10:11PM

1202038

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch
Project: Dimock Residential Groundwater
Project Number: R33911

Report To:
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone: (215) 341-6307
Fax: XX

Project Contact
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone :(215) 341-6307
Fax: XX

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
1Cooler	Cooler	2	Yes	Yes	Yes	No	Yes	793225747805
2Cooler	Cooler	1	Yes	Yes	Yes	No	Yes	793227228279
3Cooler	Cooler	5	Yes	Yes	Yes	No	Yes	798056239625
4Cooler	Cooler	2	Yes	Yes	Yes	No	Yes	798054636820
5Cooler	Cooler	2	Yes	Yes	Yes	No	Yes	798060061072
6Cooler	Cooler	2	Yes	Yes	Yes	No	Yes	793223085399
7Cooler	Cooler	1	Yes	Yes	Yes	No	Yes	793227228496
8Cooler	Cooler	2	Yes	Yes	Yes	No	Yes	793228936170

Date Due:	03/08/12 15:00 (21 day TAT)	SDG:	12046B
Received By:	Richard Bauer	Date Received:	02/15/12 09:45
Logged In By:	Jack Berges	Date Logged In:	02/15/12 10:53

Analysis	Hold Time Expires	Comments
1202038-01 HW11-P [Water] Sampled 02/13/12 15:22 Eastern		
TPH - Purgeable	02/27/12	
TPH - Extractable	02/20/12	
Dissolved HC Gases	02/27/12	5 day prelim results
1202038-02 HW53 [Water] Sampled 02/13/12 14:57 Eastern		
TPH - Extractable	02/20/12	
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Purgeable	02/27/12	
1202038-03 HW53-P [Water] Sampled 02/13/12 15:17 Eastern		
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Extractable	02/20/12	
TPH - Purgeable	02/27/12	
1202038-04 TB42 [Water] Sampled 02/13/12 10:50 Eastern		
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Purgeable	02/27/12	

1202038

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch **Project Number:** R33911
Project: Dimock Residential Groundwater

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments
1202038-05 FB17 [Water] Sampled 02/14/12 09:09 Eastern		
TPH - Purgeable	02/28/12	
TPH - Extractable	02/21/12	
Dissolved HC Gases	02/28/12	5 day prelim results
1202038-06 HW57-P [Water] Sampled 02/14/12 10:31 Eastern		
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Extractable	02/21/12	
TPH - Purgeable	02/28/12	
1202038-07 HW59 [Water] Sampled 02/14/12 10:33 Eastern		
TPH - Extractable	02/21/12	
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Purgeable	02/28/12	
1202038-08 TB44 [Water] Sampled 02/14/12 07:05 Eastern		
TPH - Purgeable	02/28/12	
Dissolved HC Gases	02/28/12	5 day prelim results
1202038-09 HW11 [Water] Sampled 02/13/12 15:05 Eastern		
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Extractable	02/20/12	
TPH - Purgeable	02/27/12	
1202038-10 TB43 [Water] Sampled 02/13/12 10:55 Eastern		
TPH - Purgeable	02/27/12	
Dissolved HC Gases	02/27/12	5 day prelim results
1202038-11 FB16 [Water] Sampled 02/13/12 09:06 Eastern		**3 VIALS RCVD BRKN - TPH-GAS CANCELLED**
TPH - Extractable	02/20/12	
Dissolved HC Gases	02/27/12	5 day prelim results
1202038-12 HW27 [Water] Sampled 02/13/12 10:37 Eastern		
TPH - Purgeable	02/27/12	
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Extractable	02/20/12	

1202038

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch **Project Number:** R33911
Project: Dimock Residential Groundwater

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments
1202038-13 HW27z [Water] Sampled 02/13/12 10:38 Eastern		
TPH - Purgeable	02/27/12	
TPH - Extractable	02/20/12	
Dissolved HC Gases	02/27/12	5 day prelim results
1202038-14 TB40 [Water] Sampled 02/13/12 07:15 Eastern		
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Purgeable	02/27/12	
1202038-15 HW03 [Water] Sampled 02/14/12 15:18 Eastern		
TPH - Purgeable	02/28/12	
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Extractable	02/21/12	
1202038-16 HW03z [Water] Sampled 02/14/12 15:19 Eastern		
TPH - Extractable	02/21/12	
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Purgeable	02/28/12	
1202038-17 TB46 [Water] Sampled 02/14/12 09:15 Eastern		
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Purgeable	02/28/12	
1202038-18 HW55 [Water] Sampled 02/13/12 10:21 Eastern		**Lab QC Sample - 1 vial received broken**
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Extractable	02/20/12	
TPH - Purgeable	02/27/12	
1202038-19 TB41 [Water] Sampled 02/13/12 07:20 Eastern		**1 vial rcvd broken**
Dissolved HC Gases	02/27/12	5 day prelim results
TPH - Purgeable	02/27/12	
1202038-20 HW57 [Water] Sampled 02/14/12 10:07 Eastern		**Lab QC Sample**
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Purgeable	02/28/12	
TPH - Extractable	02/21/12	

1202038

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch **Project Number:** R33911
Project: Dimock Residential Groundwater

Analysis	Hold Time Expires	Comments

Analysis	Expires	Comments
1202038-21 TB45 [Water] Sampled 02/14/12 07:10 Eastern		
TPH - Purgeable	02/28/12	
Dissolved HC Gases	02/28/12	5 day prelim results
1202038-22 HW58 [Water] Sampled 02/14/12 14:47 Eastern		
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Extractable	02/21/12	
TPH - Purgeable	02/28/12	
1202038-23 TB47 [Water] Sampled 02/14/12 09:20 Eastern		
Dissolved HC Gases	02/28/12	5 day prelim results
TPH - Purgeable	02/28/12	

Reviewed By

Date

Cooler #1

USEPA CLP Generic COC (LAB COPY)

DateShipped: 2/14/2012

CarrierName: FedEx

AirbillNo: 7932 2574 7805

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021412-084220-0212

Lab: EPA R9 Laboratory

Lab Contact:

Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW11-P	Drinking Water/ Dan Jacobsen	Grab	DRO(7), DRO(7)	5436 (-NA- / 1000mlAmber), 5437 (-NA- / 1000mlAmber) (2)	HW11-P	02/13/2012 15:22	
HW53	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5333 (HCl / 40mlGlassVial), 5334 (HCl / 40mlGlassVial), 5351 (-NA- / 1000mlAmber), 5352 (-NA- / 1000mlAmber), 5355 (HCl / 40mlGlassVial), 5356 (HCl / 40mlGlassVial) (6)	HW53	02/13/2012 14:57	
HW53-P	Drinking Water/ Christina Dellaria	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5401 (HCl / 40mlGlassVial), 5402 (HCl / 40mlGlassVial), 5411 (-NA- / 1000mlAmber), 5412 (-NA- / 1000mlAmber), 5415 (HCl / 40mlGlassVial), 5416 (HCl / 40mlGlassVial) (6)	HW53-P	02/13/2012 15:17	
TB42	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5158 (HCl / 40mlGlassVial), 5159 (HCl / 40mlGlassVial), 5160 (HCl / 40mlGlassVial), 5161 (HCl / 40mlGlassVial) (4)	TB42	02/13/2012 10:50	

Special Instructions: custody seals intact and temp blank 2°C upon receipt @ lab. Ex. 4 - CBI 2/15/12

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: DRO=11-Diesel Range Organics, RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
18	Ex. 4 - CBI	02/14/12	← Fed Ex						Ex. 4 - CBI	2/15/12	0945

00014

coolers #2

USEPA CLP Generic COC (LAB COPY)

DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7932 2722 6279

CHAIN OF CUSTODY RECORD

Case #: CT5665

No: 3-021412-131954-0219

Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2369

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB17	Aqueous/ Dan Jacobsen	Grab	DRO(7), DRO(7)	5485 (-NA- / 1000mlAmber), 5486 (-NA- / 1000mlAmber) (2)	FB17	02/14/2012 09:09	
HW57-P	Drinking Water/ Dan Jacobsen	Grab	DRO(7), DRO(7)	5567 (-NA- / 1000mlAmber), 5568 (-NA- / 1000mlAmber) (2)	HW57-P	02/14/2012 10:31	
HW59	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5583 (HCl / 40mlGlassVial), 5584 (HCl / 40mlGlassVial), 5601 (-NA- / 1000mlAmber), 5602 (-NA- / 1000mlAmber), 5605 (HCl / 40mlGlassVial), 5606 (HCl / 40mlGlassVial) (6)	HW59	02/14/2012 10:33	
TB44	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5450 (HCl / 40mlGlassVial), 5451 (HCl / 40mlGlassVial), 5452 (HCl / 40mlGlassVial), 5453 (HCl / 40mlGlassVial) (4)	TB44	02/14/2012 07:05	

Special Instructions: Custody seals intact and temp. blank 1°C upon receipt @ lab. Ex. 4 - CBI 2/15/12

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: DRO=11-Diesel Range Organics, RSK-175=11-Dissolved [illegible],Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
14	Ex. 4 - CBI	02/14/12		Fed Ex					Ex. 4 - CBI EPA R9 Lab.	2/15/12	0945

00015

Cooler #3

USEPA CLP Generic COC (LAB COPY)
DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7980 5623 9625

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021412-084836-0213
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW11	Drinking Water/ Bryan Berna	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5386 (HCl / 40mlGlassVial), 5387 (HCl / 40mlGlassVial), 5384 (-NA- / 1000mlAmber), 5385 (-NA- / 1000mlAmber), 5388 (HCl / 40mlGlassVial), 5389 (HCl / 40mlGlassVial) (6)	HW11	02/13/2012 15:05	
HW11-P	Drinking Water/ Dan Jacobsen	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5426 (HCl / 40mlGlassVial), 5427 (HCl / 40mlGlassVial), 5440 (HCl / 40mlGlassVial), 5441 (HCl / 40mlGlassVial) (4)	HW11-P	02/13/2012 15:22	
TB43	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5165 (HCl / 40mlGlassVial), 5166 (HCl / 40mlGlassVial), 5167 (HCl / 40mlGlassVial), 5168 (HCl / 40mlGlassVial) (4)	TB43	02/13/2012 10:55	

Special Instructions: custody seals intact and temp blank 5°C upon receipt @ lab Ex. 4 - CBI 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, DRO=11-Diesel Range Organics, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
14	Ex. 4 - CBI	02/14/12				Fed Ex			Ex. 4 - CBI EPA R9 Lab	2/15/12	0945

00016

Cooler #4

USEPA CLP Generic COC (LAB COPY)
DateShipped: 2/13/2012
CarrierName: FedEx
AirbillNo: 7980 5463 6820

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021312-165833-0211
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB16	Aqueous/ Dan Jacobsen	Grab	DRO(7), DRO(7)	5261 (-NA- / 1000mlAmber), 5262 (-NA- / 1000mlAmber) (2)	FB16	02/13/2012 09:06	
HW27	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5175 (HCl / 40mlGlassVial), 5176 (HCl / 40mlGlassVial), 5193 (-NA- / 1000mlAmber), 5194 (-NA- / 1000mlAmber), 5197 (HCl / 40mlGlassVial), 5198 (HCl / 40mlGlassVial) (6)	HW27	02/13/2012 10:37	
HW27z	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5209 (HCl / 40mlGlassVial), 5210 (HCl / 40mlGlassVial), 5227 (-NA- / 1000mlAmber), 5228 (-NA- / 1000mlAmber), 5231 (HCl / 40mlGlassVial), 5232 (HCl / 40mlGlassVial) (6)	HW27	02/13/2012 10:38	
TB40	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5144 (HCl / 40mlGlassVial), 5145 (HCl / 40mlGlassVial), 5146 (HCl / 40mlGlassVial), 5147 (HCl / 40mlGlassVial) (4)	TB40	02/13/2012 07:15	

Special Instructions: custody seals intact and temp. blank 2°C upon receipt @ lab. Ex. 4 - CBI 2/15/12 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: DRO=11-Diesel Range Organics, RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
18	Ex. 4 - CBI	2/13/12									

000017

Cooler #5

USEPA CLP Generic COC (LAB COPY)

DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7980 6006 1072

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021412-171803-0231

Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW03	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5665 (HCl / 40mlGlassVial), 5666 (HCl / 40mlGlassVial), 5683 (-NA- / 1000mlAmber), 5684 (-NA- / 1000mlAmber), 5687 (HCl / 40mlGlassVial), 5688 (HCl / 40mlGlassVial) (6)	HW03	02/14/2012 15:18	
HW03z	Drinking Water/ David Johnson	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5699 (HCl / 40mlGlassVial), 5700 (HCl / 40mlGlassVial), 5717 (-NA- / 1000mlAmber), 5718 (-NA- / 1000mlAmber), 5721 (HCl / 40mlGlassVial), 5722 (HCl / 40mlGlassVial) (6)	HW03	02/14/2012 15:19	
TB46	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5614 (HCl / 40mlGlassVial), 5615 (HCl / 40mlGlassVial), 5616 (HCl / 40mlGlassVial), 5617 (HCl / 40mlGlassVial) (4)	TB46	02/14/2012 09:15	

Special Instructions: Custody seals intact and temp blank 2°C upon receipt @ lab. RM 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, DRO=11-Diesel Range Organics, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
16	Ex. 4 - CBI	02/14/12			Fed Ex				Ex. 4 - CBI EPA R9 Lab	2/15/12	0945

00018

Cooler #6

USEPA CLP Generic COC (LAB COPY)
DateShipped: 2/13/2012
CarrierName: FedEx
AirbillNo: 7932 2308 5398

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021312-152741-0204
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB16	Aqueous/ Dan Jacobsen	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7) 3 of 4 vials received broken.	5243 (HCl / 40mlGlassVial), 5244 (HCl / 40mlGlassVial), 5265 (HCl / 40mlGlassVial), 5266 (HCl / 40mlGlassVial) (4)	FB16	02/13/2012 09:06	
HW55	Drinking Water/ Bryan Berna	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7), RSK-175(7), RSK-175(7), RSK-175(7), RSK-175(7), GRO(7), GRO(7), GRO(7), GRO(7), DRO(7), DRO(7), DRO(7), DRO(7) 1 vial received broken	5277 (HCl / 40mlGlassVial), 5278 (HCl / 40mlGlassVial), 5295 (-NA- / 1000mlAmber), 5296 (-NA- / 1000mlAmber), 5299 (HCl / 40mlGlassVial), 5300 (HCl / 40mlGlassVial), 5304 (HCl / 40mlGlassVial), 5305 (HCl / 40mlGlassVial), 5306 (HCl / 40mlGlassVial), 5307 (HCl / 40mlGlassVial), 5308 (HCl / 40mlGlassVial), 5309 (HCl / 40mlGlassVial), 5310 (HCl / 40mlGlassVial), 5311 (HCl / 40mlGlassVial), 5316 (-NA- / 1000mlAmber), 5317 (-NA- / 1000mlAmber), 5318 (-NA- / 1000mlAmber), 5319 (-NA- / 1000mlAmber) (18)	HW55	02/13/2012 10:21	

Sample(s) to be used for Lab QC: HW55

Custody seals intact and temp. blank 2°C upon receipt @ lab. [illegible] 2/15/12

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics, DRO=11-Diesel Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
22	Ex. 4 - CBI	2/13/12	→			Fed Ex	→	3	Ex. 4 - CBI EPA R9 Lab	2/15/12	0945

00019

cooler #6

USEPA CLP Generic COC (LAB COPY)

DateShipped: 2/13/2012
CarrierName: FedEx
AirbillNo: 7932 2308 5399

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021312-152741-0204

Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
TB41	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7) Vial received broken	5151 (HCl / 40mlGlassVial), 5152 (HCl / 40mlGlassVial), 5153 (HCl / 40mlGlassVial), 5154 (HCl / 40mlGlassVial) (4)	TB41	02/13/2012 07:20	

Special Instructions: Custody seals intact and temp blank 2°C upon receipt @ lab. 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics, DRO=11-Diesel Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	Ex. 4 - CBI	2/13/12				FedEx			Ex. 4 - CBI EPA R9 lab	2/15/12	0945

00020

Cooler #7

USEPA CLP Generic COC (LAB COPY)

DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7932 2722 8496

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021412-130605-0218

Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB17	Aqueous/ Dan Jacobsen	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5467 (HCl / 40mlGlassVial), 5468 (HCl / 40mlGlassVial), 5489 (HCl / 40mlGlassVial), 5490 (HCl / 40mlGlassVial) (4)	FB17	02/14/2012 09:09	
HW57	Drinking Water/ Bryan Berna	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7), RSK-175(7), RSK-175(7), RSK-175(7), RSK-175(7), GRO(7), GRO(7), GRO(7), GRO(7), DRO(7), DRO(7), DRO(7), DRO(7)	5501 (HCl / 40mlGlassVial), 5502 (HCl / 40mlGlassVial), 5519 (-NA- / 1000mlAmber), 5520 (-NA- / 1000mlAmber), 5523 (HCl / 40mlGlassVial), 5524 (HCl / 40mlGlassVial), 5528 (HCl / 40mlGlassVial), 5529 (HCl / 40mlGlassVial), 5530 (HCl / 40mlGlassVial), 5531 (HCl / 40mlGlassVial), 5532 (HCl / 40mlGlassVial), 5533 (HCl / 40mlGlassVial), 5534 (HCl / 40mlGlassVial), 5535 (HCl / 40mlGlassVial), 5540 (-NA- / 1000mlAmber), 5541 (-NA- / 1000mlAmber), 5542 (-NA- / 1000mlAmber), 5543 (-NA- / 1000mlAmber) (18)	HW57	02/14/2012 10:07	

Sample(s) to be used for Lab QC: HW57 Custody Seals intact and temp. blank 1° C upon receipt @ lab.

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics, DRO=11-Diesel Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
22	Ex. 4 - CBI	02/14/12	Fed Ex						Ex. 4 - CBI EPA R9 Lab	2/15/12	0945

00021

Cooler # 7

USEPA CLP Generic COC (LAB COPY)
DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7932 2722 8496

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-021412-130605-0218
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW57-P	Drinking Water/ Dan Jacobsen	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5557 (HCl / 40mlGlassVial), 5558 (HCl / 40mlGlassVial), 5571 (HCl / 40mlGlassVial), 5572 (HCl / 40mlGlassVial) (4)	HW57-P	02/14/2012 10:31	
TB45	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5457 (HCl / 40mlGlassVial), 5458 (HCl / 40mlGlassVial), 5459 (HCl / 40mlGlassVial), 5460 (HCl / 40mlGlassVial) (4)	TB45	02/14/2012 07:10	

Special Instructions: Custody seals intact and temp blank 1°C upon receipt @ lab RM 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics, DRO=11-Diesel Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	Ex. 4 - CBI	02/14/12			Fed Ex				Ex. 4 - CBI USEPA R9 Lab	2/15/12	0945

cooler #8

USEPA CLP Generic COC (LAB COPY)
DateShipped: 2/14/2012
CarrierName: FedEx
AirbillNo: 7932 2693 6170

CHAIN OF CUSTODY RECORD

Case #: CT5665

No: 3-021412-161402-0226
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW58	Drinking Water/ Bryan Berna	Grab	RSK-175(7), RSK-175(7), DRO(7), DRO(7), GRO(7), GRO(7)	5631 (HCl / 40mlGlassVial), 5632 (HCl / 40mlGlassVial), 5649 (-NA- / 1000mlAmber), 5650 (-NA- / 1000mlAmber), 5653 (HCl / 40mlGlassVial), 5654 (HCl / 40mlGlassVial) (6)	HW58	02/14/2012 14:47	
TB47	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	5621 (HCl / 40mlGlassVial), 5622 (HCl / 40mlGlassVial), 5623 (HCl / 40mlGlassVial), 5624 (HCl / 40mlGlassVial) (4)	TB47	02/14/2012 09:20	

Special Instructions: custody seals intact and temp. blank 2°C upon recept @ lab. RPR 2/15/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, DRO=11-Diesel Range Organics, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	Ex. 4 - CBI	02/14/12					Fed Ex		Ex. 4 - CBI EPA RA Lab	2/15/12	0945

00023

SAMPLE PREPARATION

PREPARATION BENCH SHEET

B2B0075

EPA Region 9 Laboratory

'rinted: 2/15/2012 1:05:14PM

Project: R33911 - Dimock Residential Groundwater

Matrix: Water **Analysis:TPH - Purgeable** **Prepared using: Extractables - 5030 P&T TPH-G** **Surrogate used: 2A24003**

Lab Number	SampleName	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Prepared By	pH	Extraction Comments
1202038-01 C	HW11-P	02/15/12 13:01	5	5				1	Ex. 4 - CBI	<2	
1202038-02 C	HW53	02/15/12 13:01	5	5				1			
1202038-03 D	HW53-P	02/15/12 13:01	5	5				1			
1202038-04 A	TB42	02/15/12 13:01	5	5				1			
1202038-05 C	FB17	02/15/12 13:01	5	5				1			
1202038-06 C	HW57-P	02/15/12 13:01	5	5				1			
1202038-07 C	HW59	02/15/12 13:01	5	5				1			
1202038-08 A	TB44	02/15/12 13:01	5	5				1			
1202038-09 C	HW11	02/15/12 13:01	5	5				1			
1202038-10 A	TB43	02/15/12 13:01	5	5				1			
1202038-12 D	HW27	02/15/12 13:01	5	5				1			
1202038-13 D	HW27z	02/15/12 13:01	5	5				1			
1202038-14 B	TB40	02/15/12 13:01	5	5				1			
1202038-15 C	HW03	02/15/12 13:01	5	5				1			
1202038-16 C	HW03z	02/15/12 13:01	5	5				1	Ex. 4 - CBI		
1202038-17 A	TB46	02/15/12 13:01	5	5				1			
1202038-18 I	HW55	02/15/12 13:01	5	5				1			
1202038-19 A	TB41	02/15/12 13:01	5	5				1			
1202038-20 G	HW57	02/15/12 13:01	5	5				1			
1202038-21 B	TB45	02/15/12 13:01	5	5				1			
1202038-22 D	HW58	02/15/12 13:01	5	5				1			
1202038-23 A	TB47	02/15/12 13:01	5	5				1		✓	
B2B0075-BLK1	Blank	02/15/12 13:01	5	5				1		—	

Ex. 4 - CBI 02.16.12 2/16/12

Preparation Reviewed By Date

PREPARATION BENCH SHEET

B2B0075

EPA Region 9 Laboratory

'rinted: 2/15/2012 1:05:14PM

Project: -

Matrix: Water **Analysis:QC** **Prepared using: Extractables - 5030 P&T TPH-G** **Surrogate used: 2A24003**

Lab Number	SampleName	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Prepared By	pH	Extraction Comments
B2B0075-BLK2	Blank	02/15/12 13:01	5	5				1	Ex. 4 - CBI	—	
B2B0075-BS1	LCS	02/15/12 13:01	5	5	1J17001		2.5	1		—	
B2B0075-BS2	LCS	02/15/12 13:01	5	5	1J17001		2.5	1		—	
B2B0075-MS1 j	Matrix Spike	02/15/12 13:01	5	5	1J17001	1202038-18	2.5	1		<2	
B2B0075-MS2 j	Matrix Spike	02/15/12 13:01	5	5	1J17001	1202038-20	2.5	1			
B2B0075-MSD1 G	Matrix Spike Dup	02/15/12 13:01	5	5	1J17001	1202038-18	2.5	1			
B2B0075-MSD2 I	Matrix Spike Dup	02/15/12 13:01	5	5	1J17001	1202038-20	2.5	1			

AG5975-D

Ex. 4 - CBI
02.16.12

Reagents

Reagent # **Description**

000026

Preparation Reviewed By

2/16/12
Date

DIM0048645

DIM0048681

Instrument: A6 5975 D
Analysis Date: 02.24.12

INITIAL CALIBRATION DATA

G:\USER\ESAT\1 Organic Group\Forms\DataPackageSeparators.doc

Injection Log

Operator: YNB
Directory: I:\Data\ROOM209\AG5975 D\2012\data\012412\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	012412GD001.D	1	2010034-IBL1	2A24003, IB	24 Jan 2012 10:58 am
2	012412GD002.D	1	2010034-IBL2	2A24003, IB	24 Jan 2012 11:27 am
3	012412GD003.D	1	2010034-RT1	2A10002 RET TIME WINDOW	24 Jan 2012 11:56 am
4	012412GD004.D	1	2010034-IBL3	2A24003, IB	24 Jan 2012 12:24 pm
5	012412GD005.D	1	2010034-CAL1	50ug/L, 1J17001, WATER	24 Jan 2012 12:53 pm
6	012412GD006.D	1	2010034-CAL2	100ug/L, 1J17001, WATER	24 Jan 2012 1:21 pm
7	012412GD007.D	1	2010034-CAL3	500ug/L, 1J17001, WATER	24 Jan 2012 1:49 pm
8	012412GD008.D	1	2010034-CAL4	1000ug/L, 1J17001, WATER	24 Jan 2012 2:17 pm
9	012412GD009.D	1	2010034-CAL5	2000ug/L, 1J17001, WATER	24 Jan 2012 2:46 pm
10	012412GD010.D	1	BLANK	BLANK, WATER	24 Jan 2012 3:15 pm
11	012412GD011.D	1	2010034-SCV1	500ug/L, 2A10001, WATER	24 Jan 2012 3:43 pm
12	012412GD012.D	1	2010034-ICB1	NAPHTHA, 2A10005, WATER	24 Jan 2012 4:12 pm
13	012412GD013.D	1	2010034-ICB2	TURPENTINE, 2A10006, WATER	24 Jan 2012 4:40 pm
14	012412GD014.D	1	2010034-ICB3	MIN.SPIRITS, 2A10007, WATER	24 Jan 2012 5:08 pm
15	012412GD015.D	1	2010034-ICB4	LACQUER, 2A10009, WATER	24 Jan 2012 5:37 pm
16	012412GD016.D	1	2010034-ICB5	STODDARD, 2A10011, WATER	24 Jan 2012 6:05 pm
17	012412GD017.D	1	2010034-ICB6	DIESEL, 2A10012, WATER	24 Jan 2012 6:33 pm

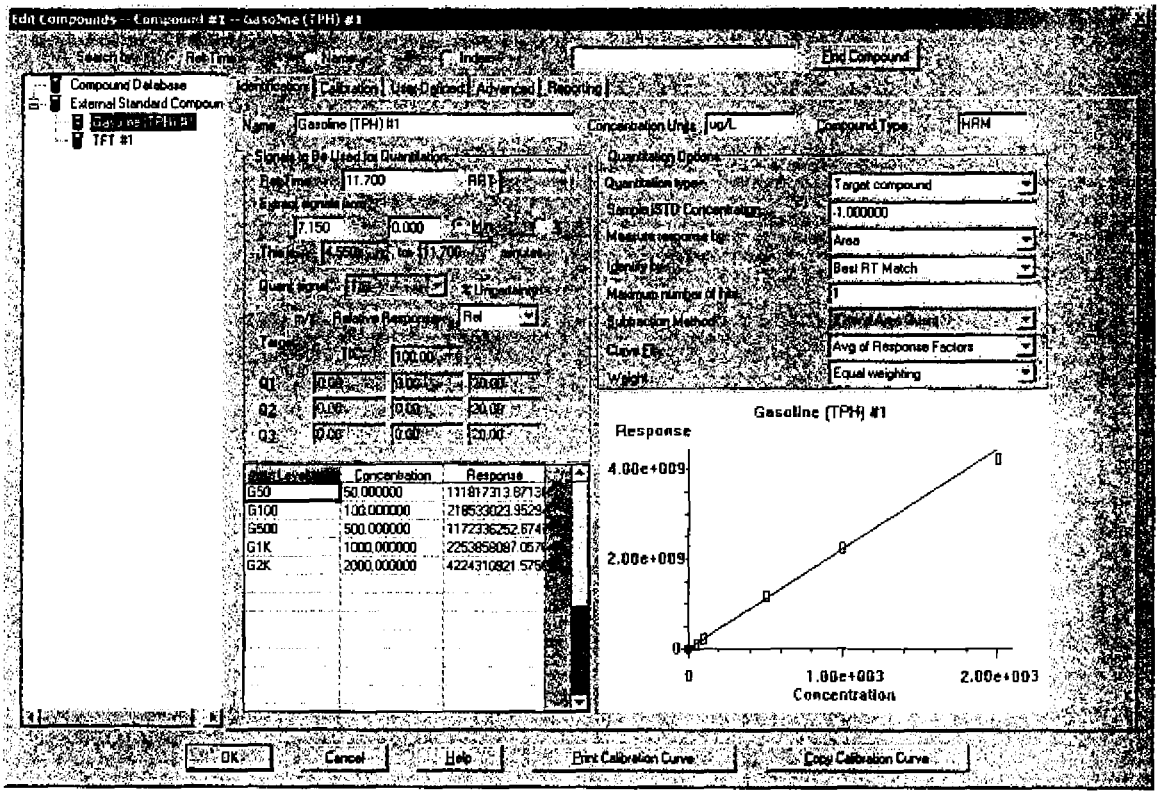
Response Factor Report GC-FID-PID

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 012412TPH GAS.M
Title : GC TPH Method
Last Update : Wed Jan 25 10:49:01 2012
Response Via : Initial Calibration

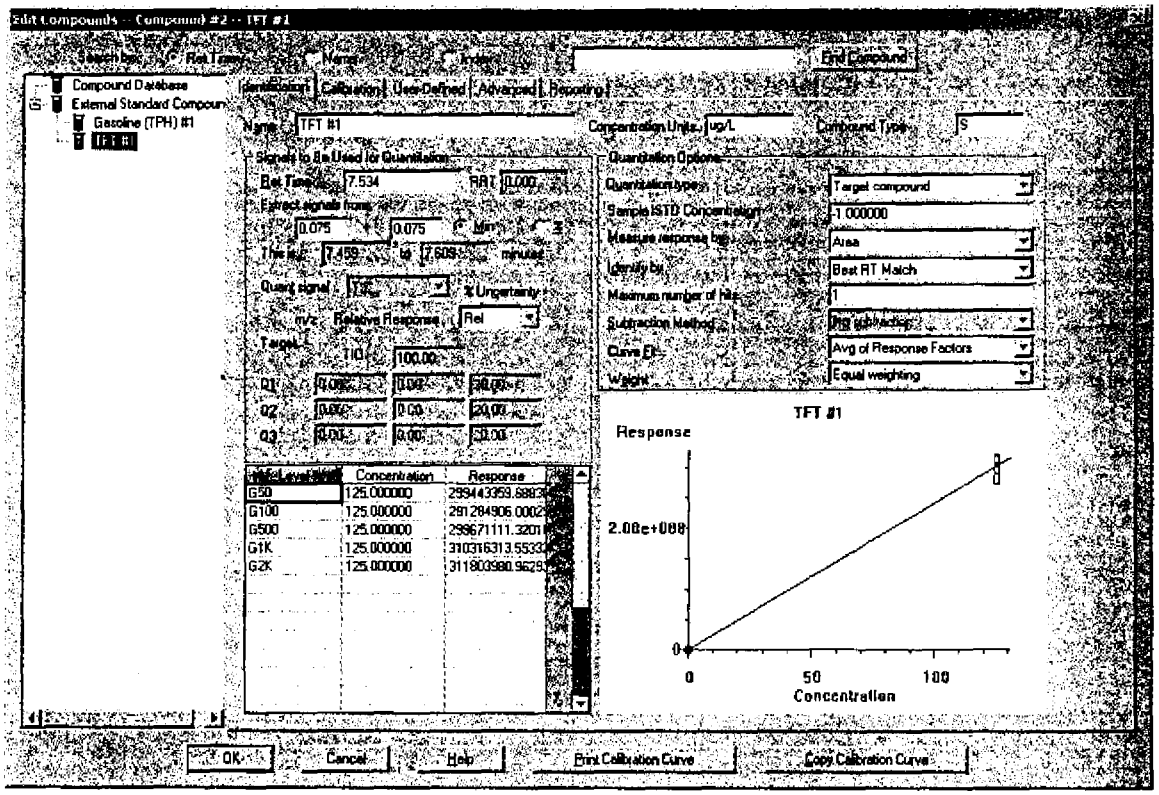
Calibration Files
G50 =012412GD005.D G100 =012412GD006.D G500 =012412GD007.D
G1K =012412GD008.D G2K =012412GD009.D

	Compound	G50	G100	G500	G1K	G2K	Avg		%RSD
1)	HRM Gasoline (TPH) #1	2.236	2.185	2.345	2.254	2.112	2.226	E6	3.86
2)	S TFT #1	2.396	2.250	2.397	2.483	2.494	2.404	E6	4.06

(#) = Out of Range


Edit Compounds -- Compound #1 -- Gasoline (TPH) #1
End Compound
Compound Database
External Standard Compoun
Gasoline (TPH) #1
TFT #1
Identification
Calibration
Uses Defined
Advanced
Reporting
Name
Gasoline (TPH) #1
Concentration Units
ug/L
Compound Type
HRM
Signals to Be Used for Quantitation
Quantitation Options
Quantitation type
Target compound
Sample ISTD Concentration
1.000000
Measure response by
Area
Best RT Match
Maximum number of hits
1
Subtraction Method
Avg of Response Factors
Equal weighting
Gasoline (TPH) #1
Response
4.00e+009
2.00e+009
0
1.00e+003
2.00e+003
Concentration
Concentration
Response
G50
50.000000
G100
100.000000
G500
500.000000
G1K
1000.000000
G2K
2000.000000
OK
Cancel
Help
Print Calibration Curve
Copy Calibration Curve

00030


Edit Compounds -- Compound #2 -- TFT #1
Search by:
Ret Time
Name
Index
Find Compound
Compound Database
External Standard Compoun
Gasoline (TPH) #1
TFT #1
Identification
Calibration
User-Defined
Advanced
Reporting
Name
TFT #1
Concentration Units
ug/L
Compound Type
S
Signals to Be Used for Quantitation
Ret Time
7.534
RRT
0.000
Extract signals from
0.075
0.075
Min
This is
7.459
to
7.609
minutes
Quant signal
% Uncertainty
m/z
Relative Response
Rel
Target
TIC
100.00
Q1
Q2
Q3
Quantitation Options
Quantitation type
Target compound
Sample ISTD Concentration
-1.000000
Measure response by
Area
Identify by
Best RT Match
Maximum number of hits
1
Subtraction Method
Curve Fit
Avg of Response Factors
Weight
Equal weighting
Level
Concentration
Response
G50
125.000000
G100
125.000000
G500
125.000000
G1K
125.000000
G2K
125.000000
TFT #1
Response
2.00e+008
0
0
50
100
Concentration
OK
Cancel
Help
Print Calibration Curve
Copy Calibration Curve

Compound List Report GC-FID-PID

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 012412TPH_GAS.M
Title : GC TPH Method
Last Update : Wed Jan 25 10:49:01 2012
Response Via : Initial Calibration

Total Cpnds : 2

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	HRM	Gasoline (TPH) #1	11.700	1.000	A	A	R
2	S	TFT #1	7.534	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

012412TPH_GAS.M Wed Jan 25 10:57:26 2012

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD001.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 10:58 am
Operator : Ex. 4 - CBI
Sample : 2010034-IBL1
Misc : 2A24003, IB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:34 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.523	308613824	128.373 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 102.70%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	842790	0.379 ug/L

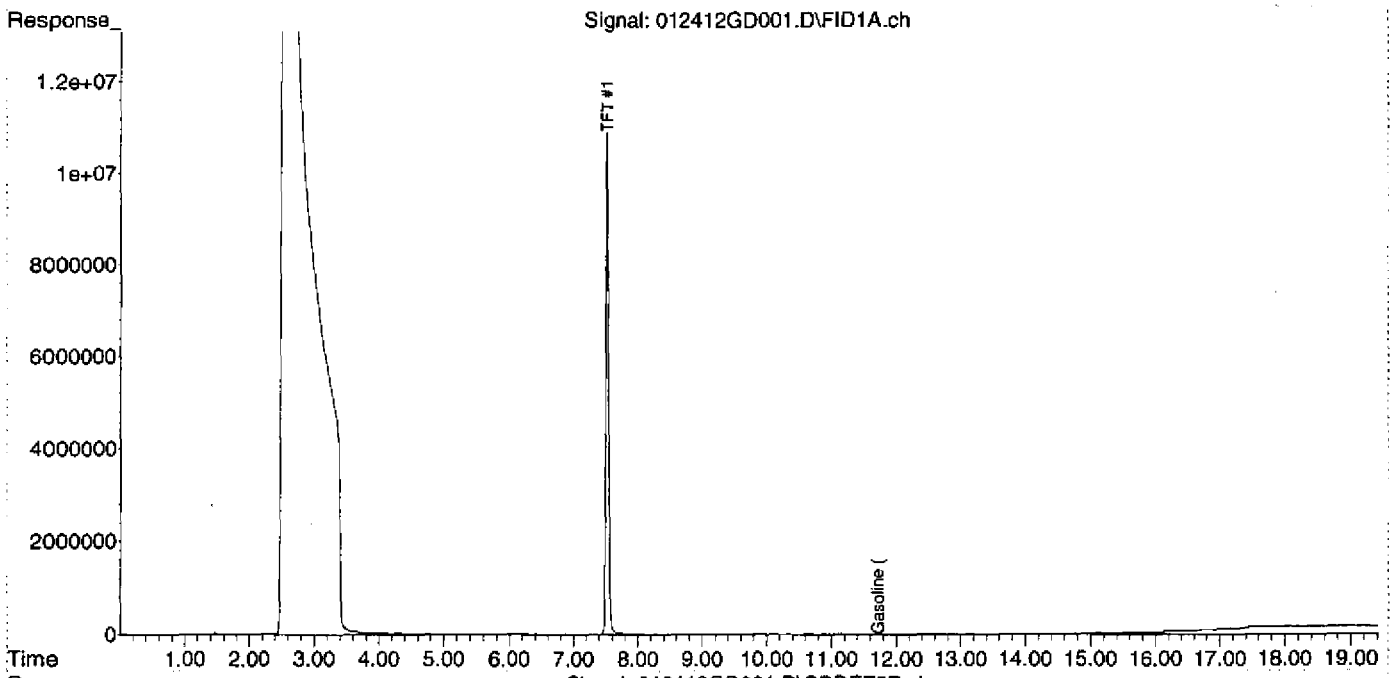
(f)=RT Delta > 1/2 Window (m)=manual int.

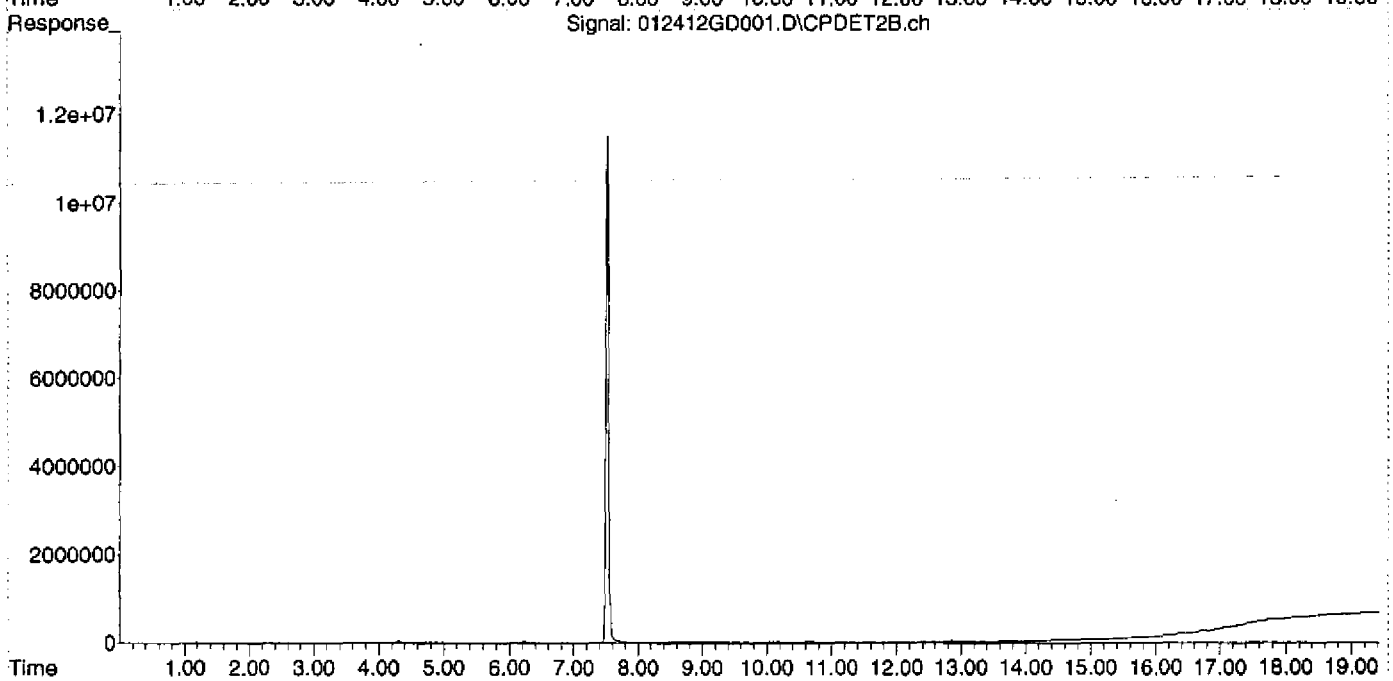
Quantitation Report (Not Reviewed)

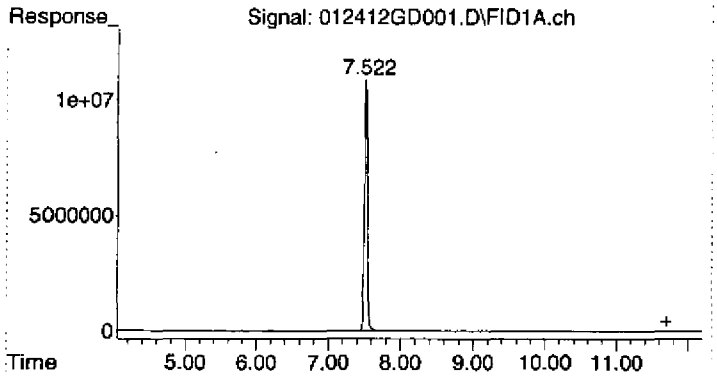
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD001.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 10:58 am
Operator : Ex.4-CBI
Sample : 2010034-IBL1
Misc : 2A24003, IB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:34 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

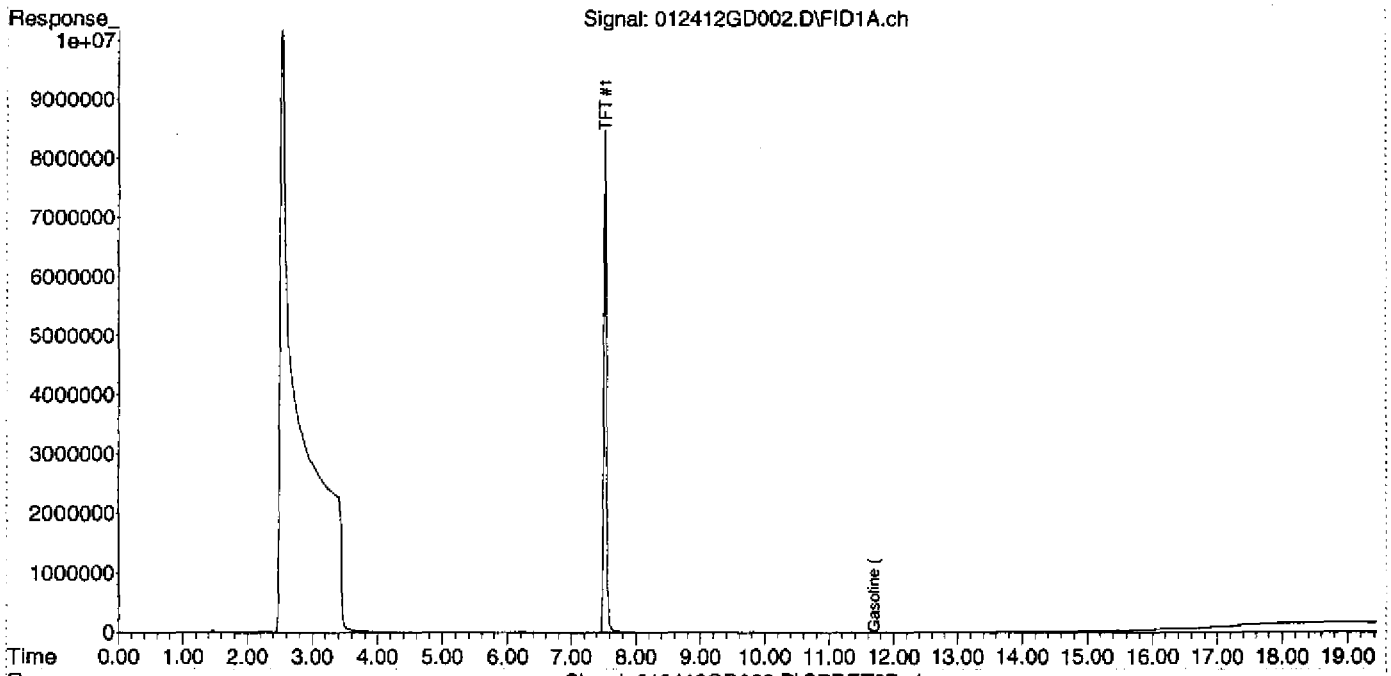
R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	842790
Conc:	0.38 ug/L

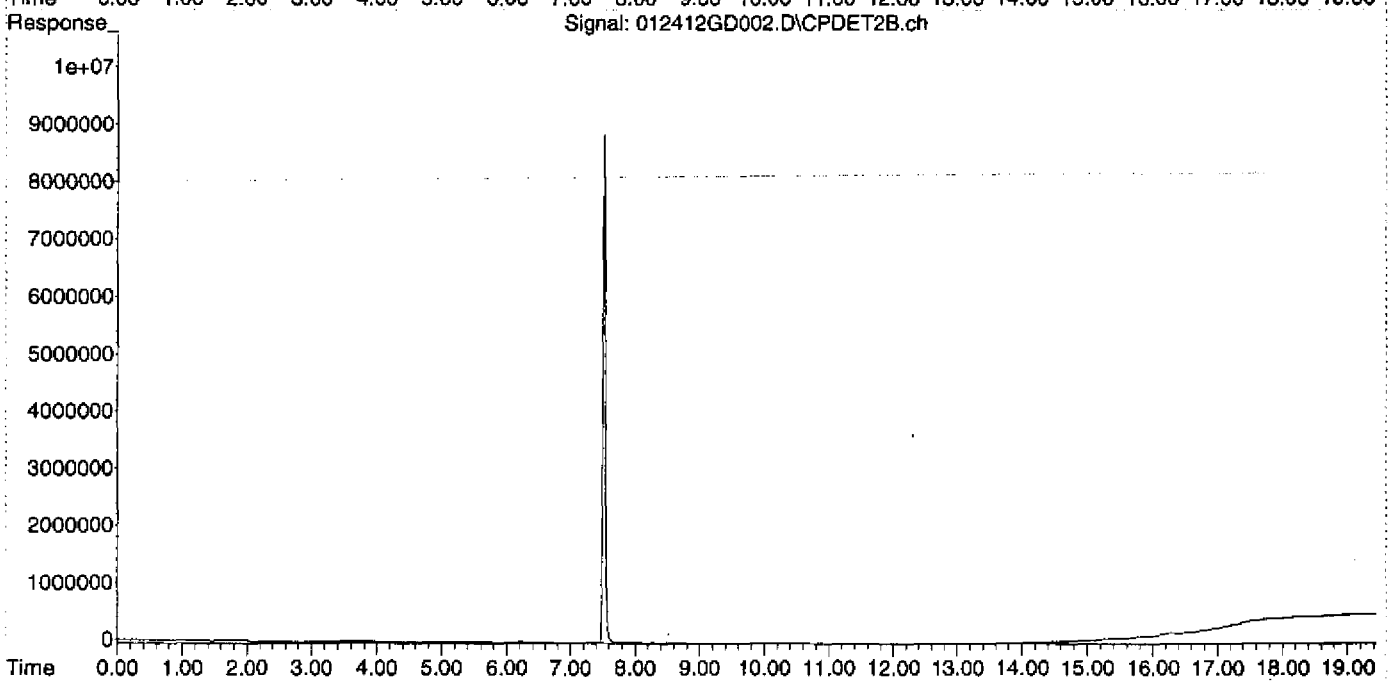
Quantitation Report (Not Reviewed)

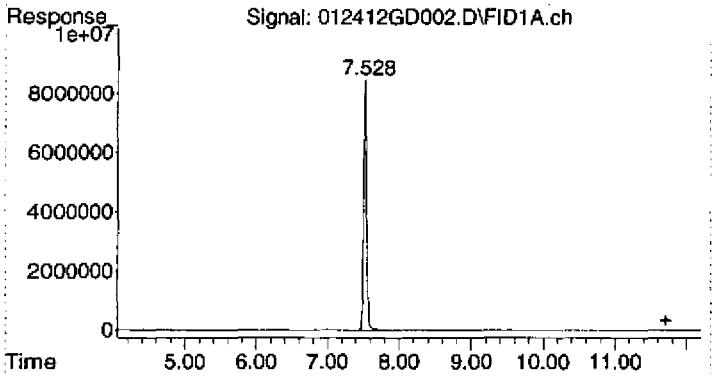
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD002.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 11:27 am
Operator : Ex. 4 - CBI
Sample : 2010034-IBL2
Misc : 2A24003, IB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:38 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	450194
Conc:	0.20 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD002.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 11:27 am
Operator : Ex. 4 - CBI
Sample : 2010034-IBL2
Misc : 2A24003, IB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:38 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.529	240306666	99.960 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	79.97%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	450194	0.202 ug/L

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

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD003.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 11:56 am
Operator : Ex.4-CBI
Sample : 2010034-RT1
Misc : 2A10002 RET TIME WINDOW
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:29 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:45:27 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	288002508	119.800 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	95.84%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	3354126923	1506.476 ug/L

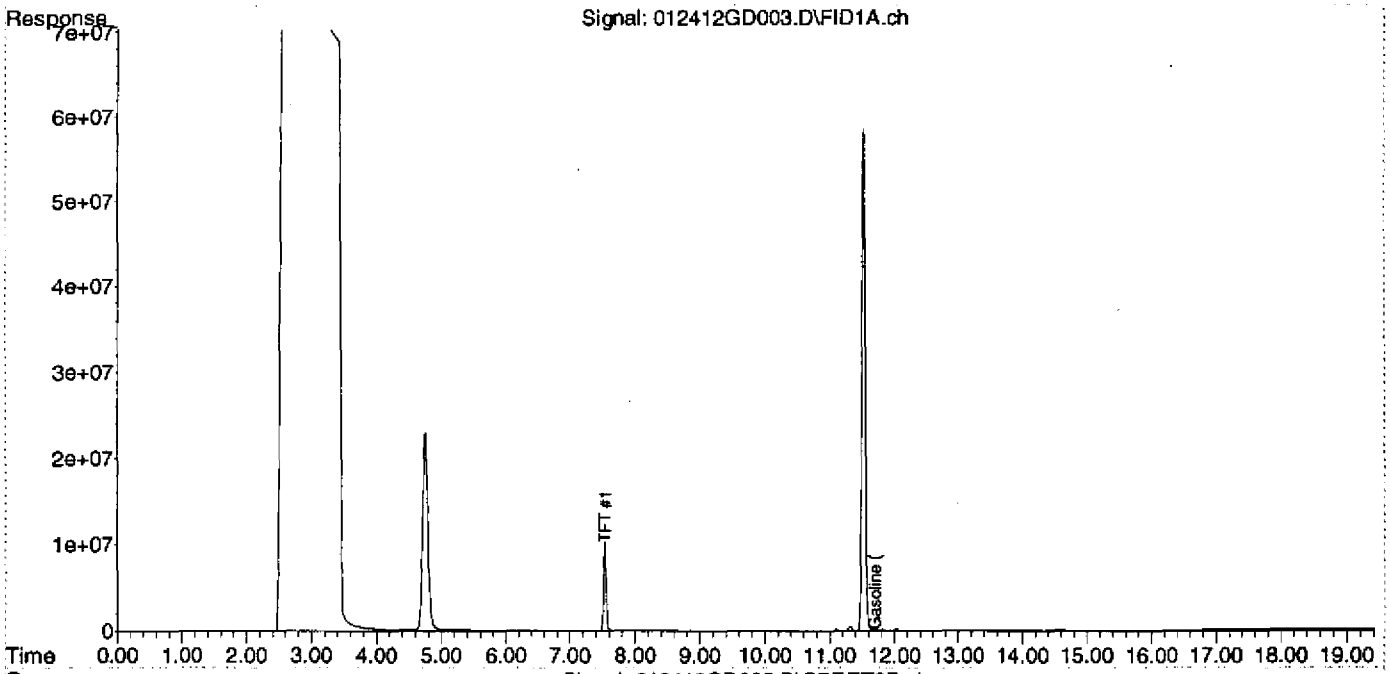
(f)=RT Delta > 1/2 Window (m)=manual int.

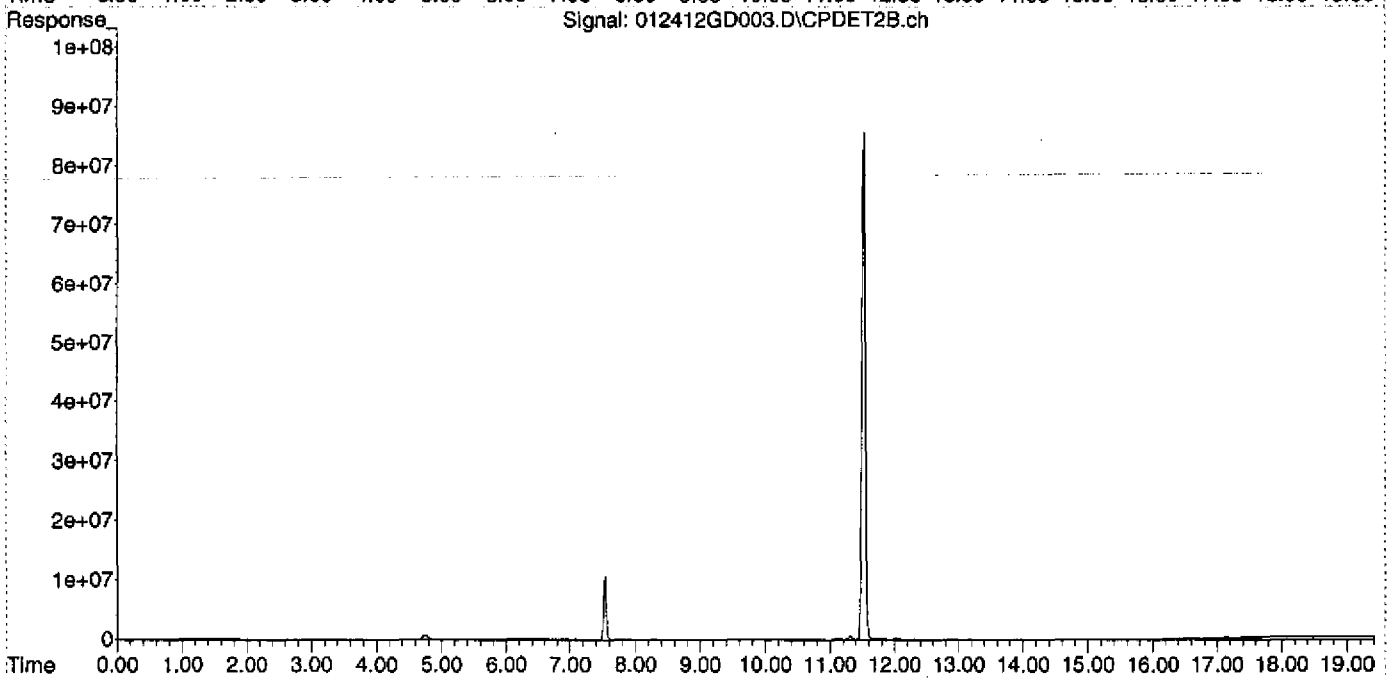
Quantitation Report (Not Reviewed)

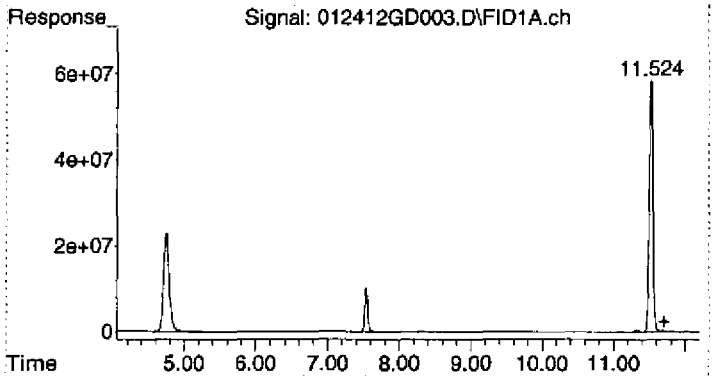
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD003.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 11:56 am
Operator : Ex. 4 - CBI
Sample : 2010034-RT1
Misc : 2A10002 RET TIME WINDOW
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:29 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:45:27 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

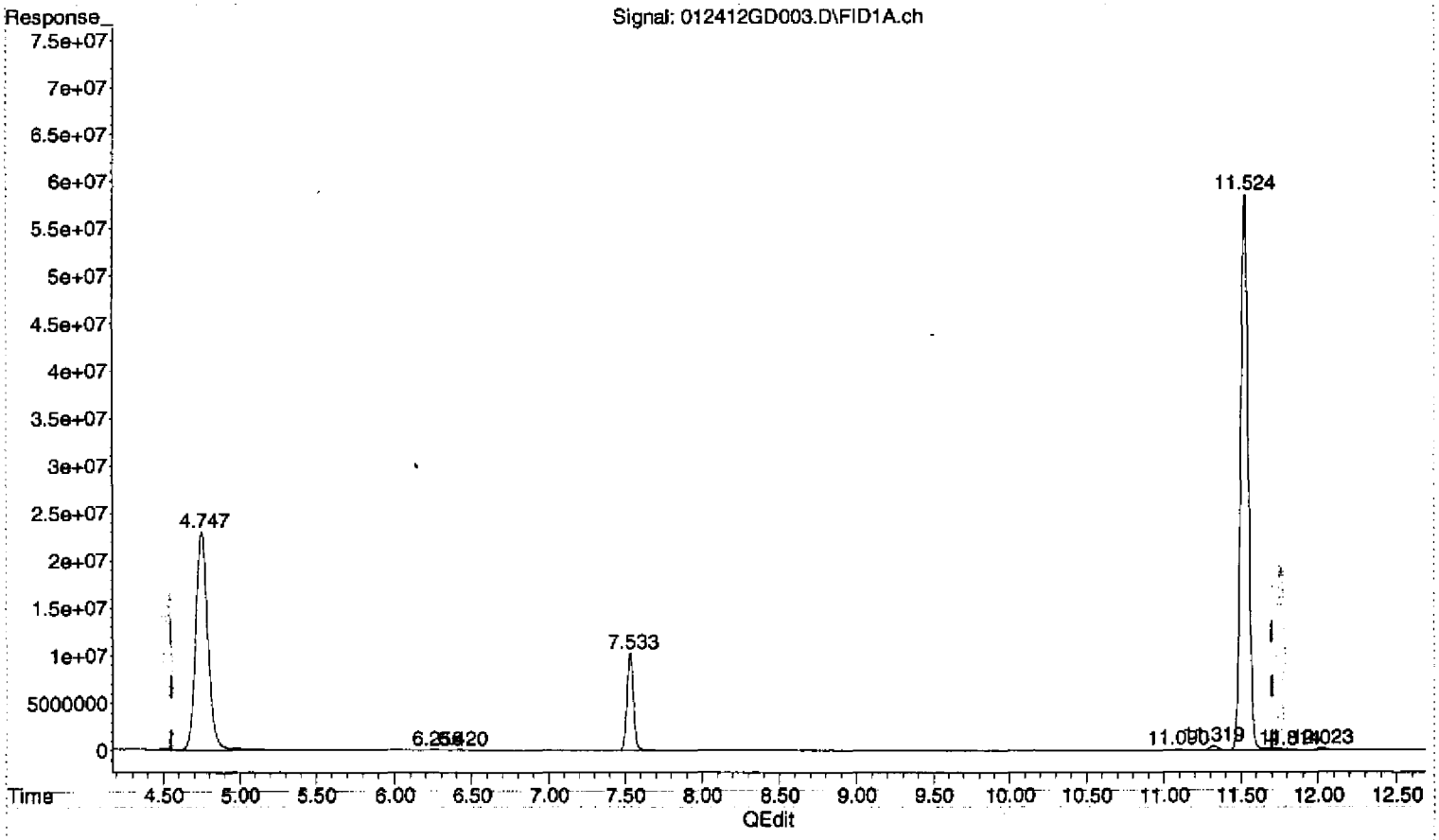
R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 3354126923
Conc: 1506.48 ug/L

Quantitation Report (Qedit)

Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD003.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 11:56 am
Operator : Ex. 4 - CBI
Sample : 2010034-RT1
Misc : 2A10002 RET TIME WINDOW
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:29 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:45:27 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID



(1) Gasoline (TPH) #1 (HRM)

11.700min 1506.476 ug/L

response 3354126923

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD004.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 12:24 pm
Operator : Ex. 4 - CBI
Sample : 2010034-IBL3
Misc : 2A24003, IB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:43 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	297346628	123.687 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.95%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	14246639	6.399 ug/L

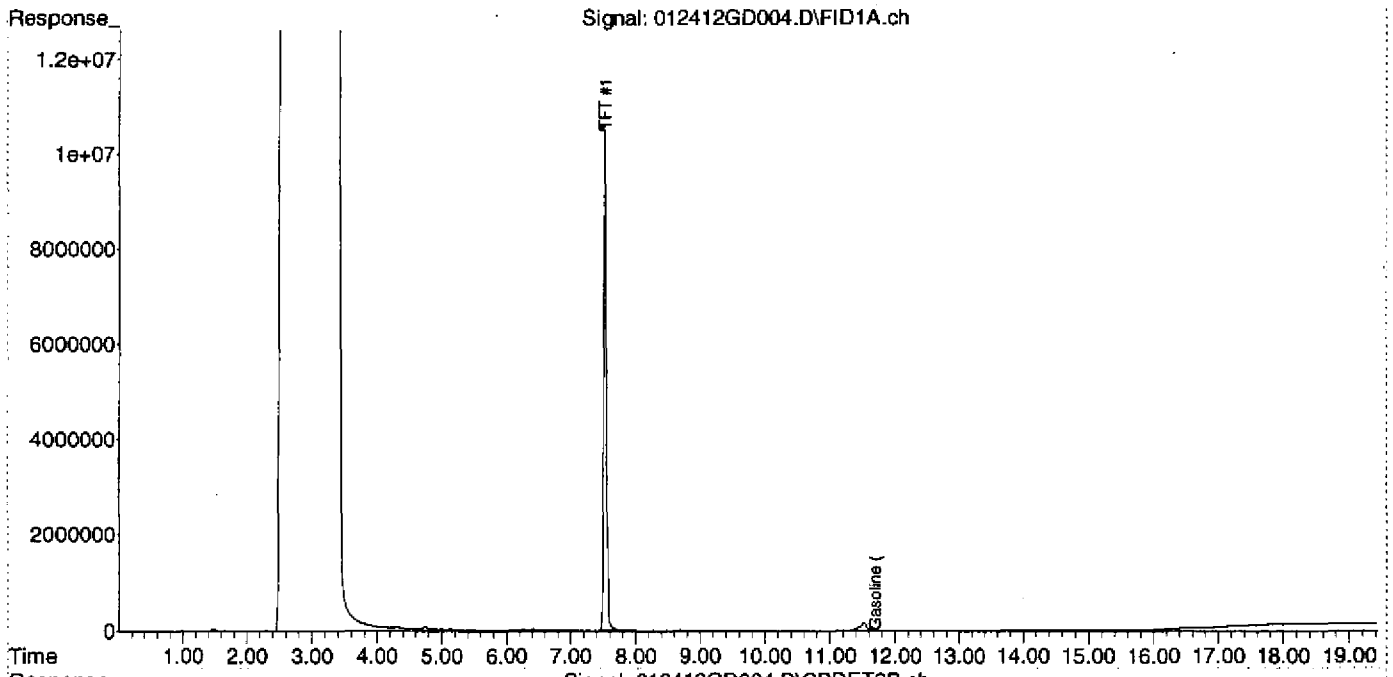
(f)=RT Delta > 1/2 Window (m)=manual int.

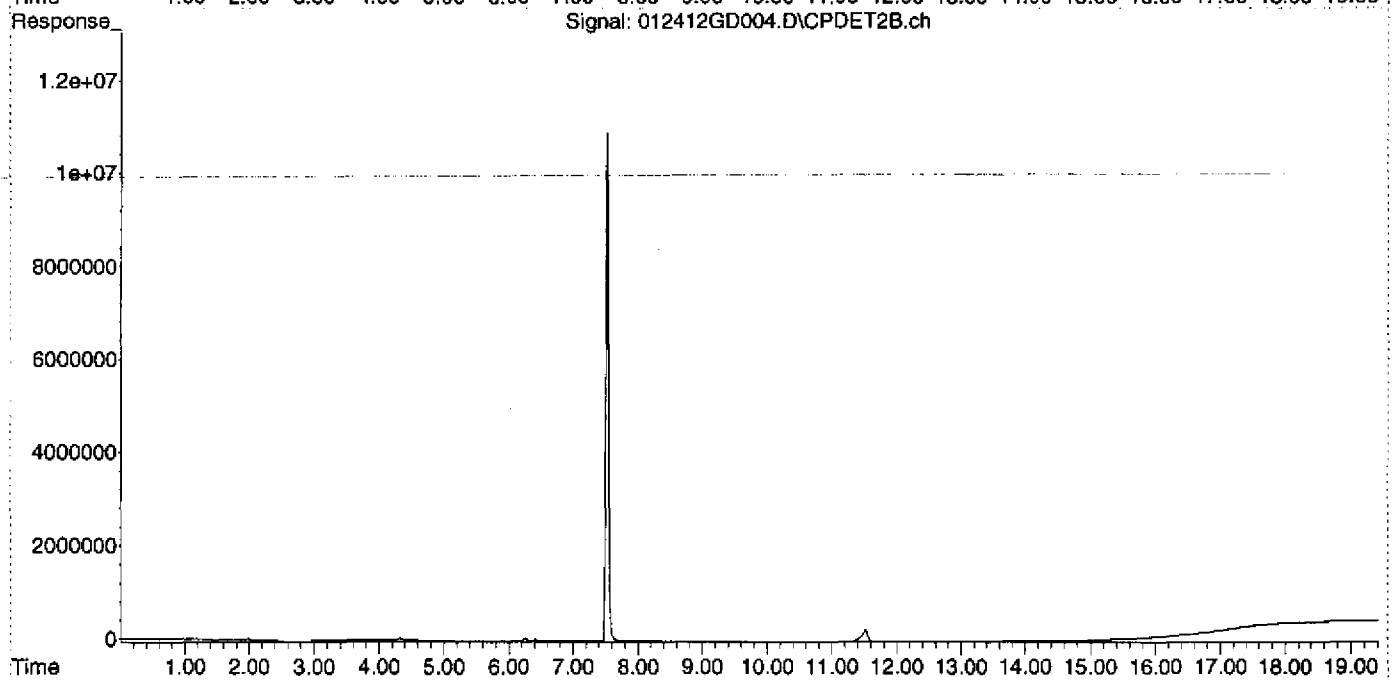
Quantitation Report (Not Reviewed)

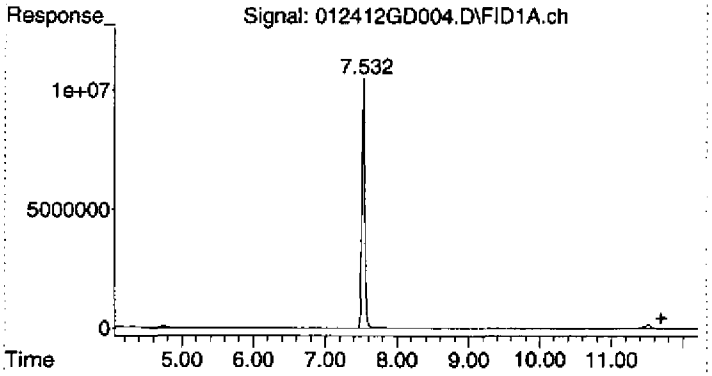
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD004.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 12:24 pm
Operator : Ex. 4 - CBI
Sample : 2010034-IBL3
Misc : 2A24003, IB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:43 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	14246639
Conc:	6.40 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD005.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 12:53 pm
Operator : Ex. 4 - CBI
Sample : 2010034-CAL1
Misc : 50ug/L, 1J17001, WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:41 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:45:27 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	299443360	124.559 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 99.65%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	111817314	50.222 ug/L

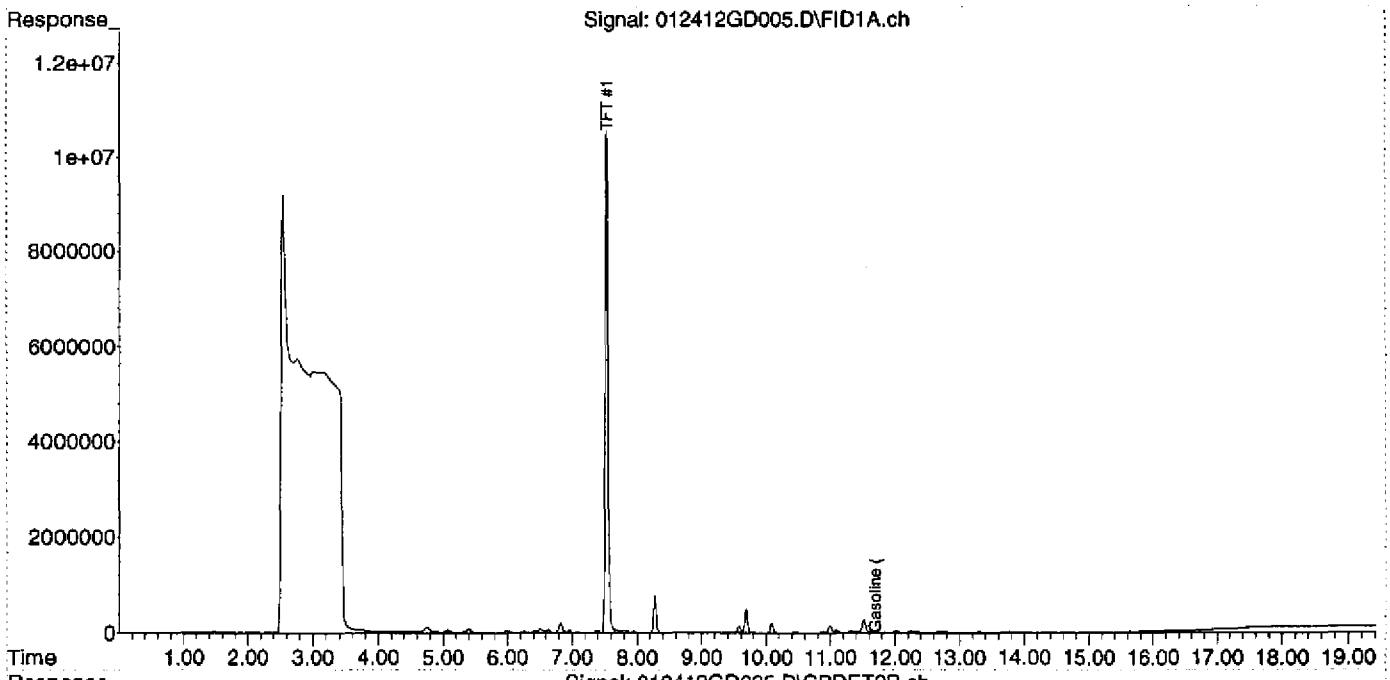
(f)=RT Delta > 1/2 Window (m)=manual int.

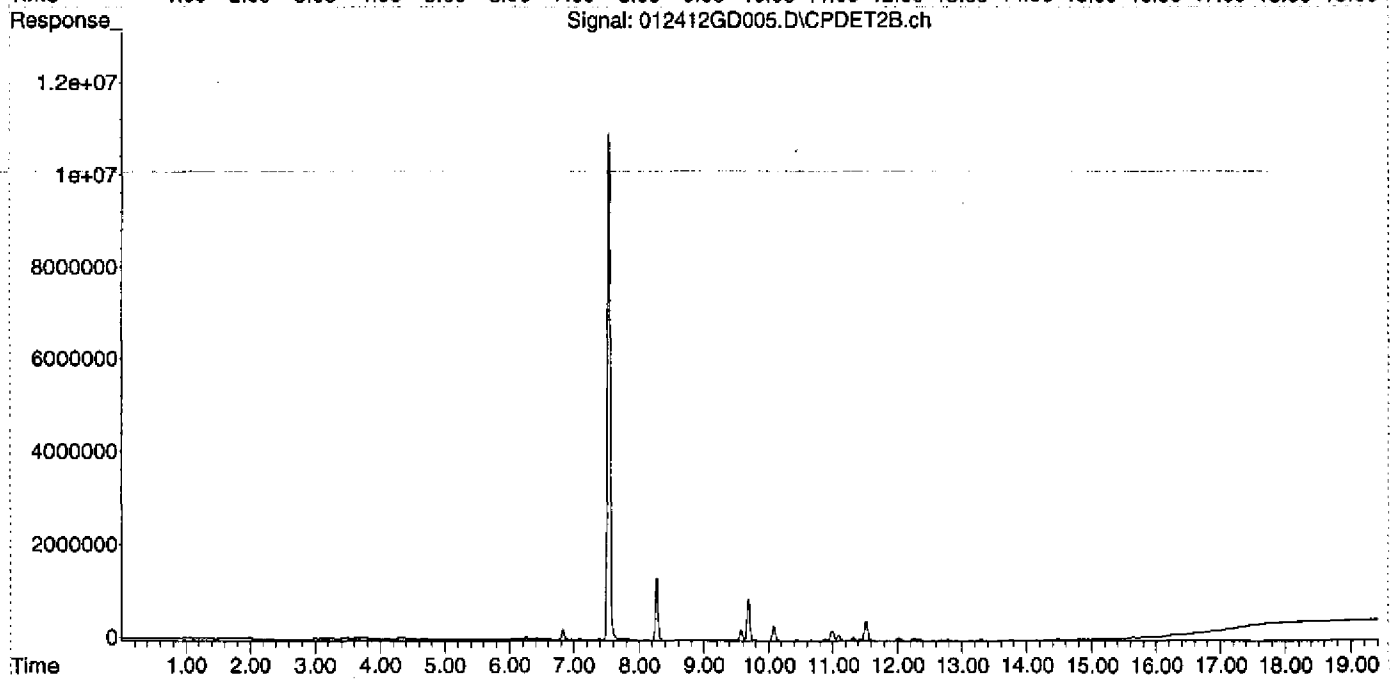
Quantitation Report (Not Reviewed)

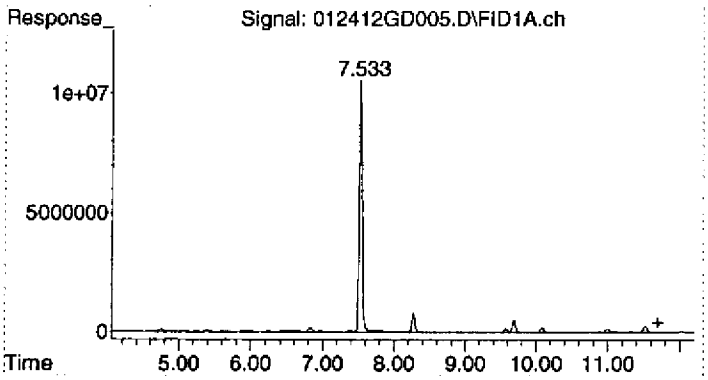
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD005.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 12:53 pm
Operator : [redacted]
Sample : 2010034-CAL1
Misc : 50ug/L, 1J17001, WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:41 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:45:27 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 111817314
Conc: 50.22 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD006.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 1:21 pm
Operator : Ex.4-CBI
Sample : 2010034-CAL2
Misc : 100ug/L, 1J17001, WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:58 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:47:49 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	281284906	117.006 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery =	93.60%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	218533024	98.152 ug/L

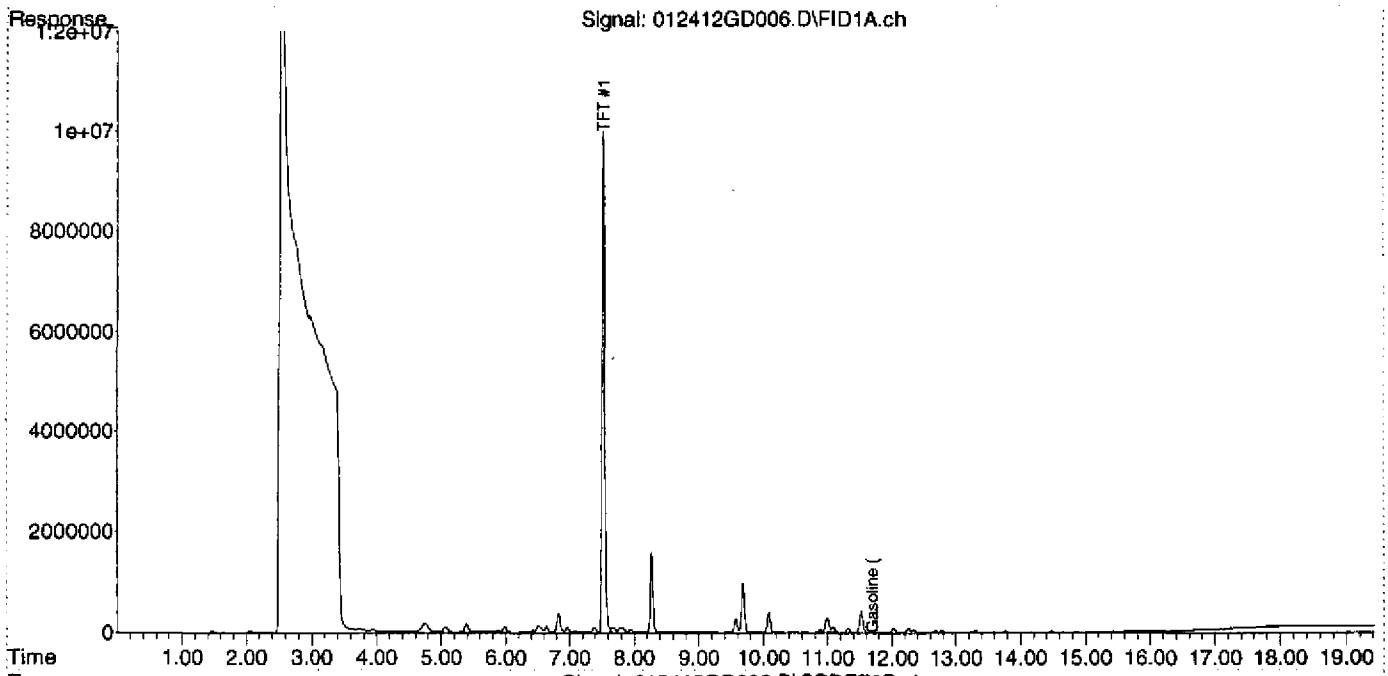
(f)=RT Delta > 1/2 Window (m)=manual int.

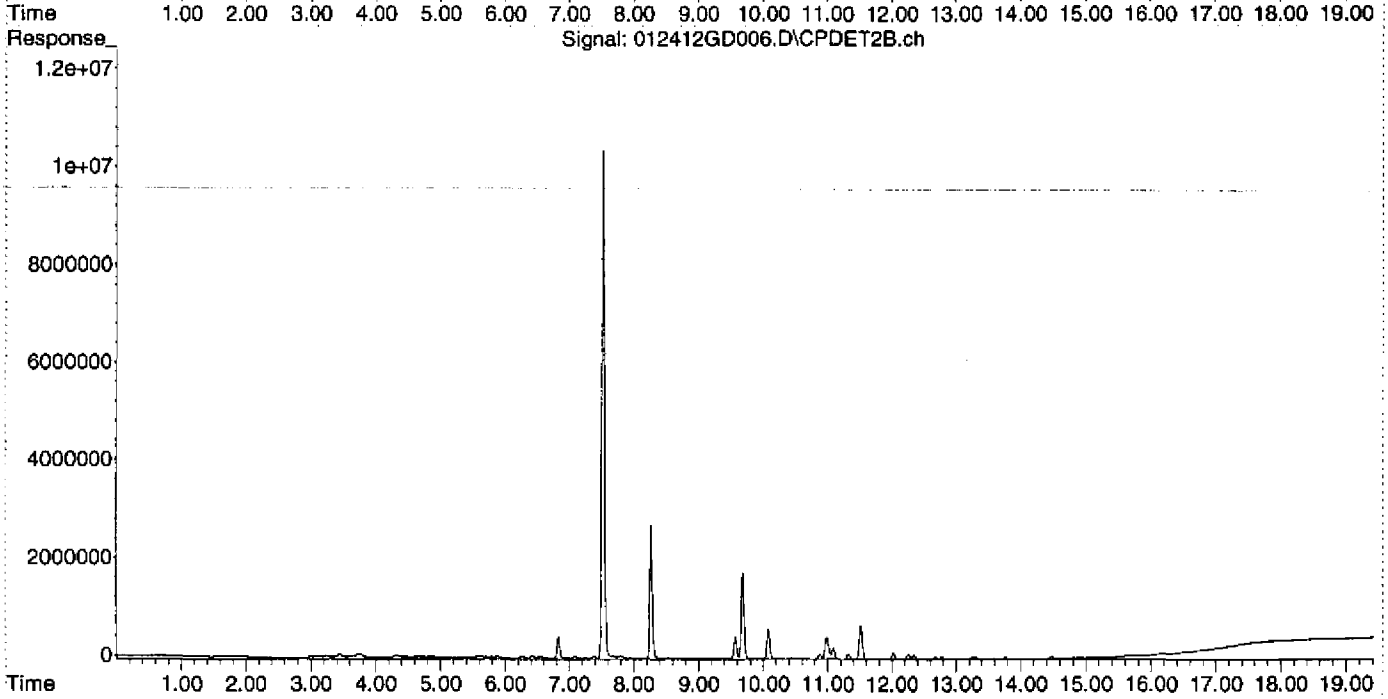
Quantitation Report (Not Reviewed)

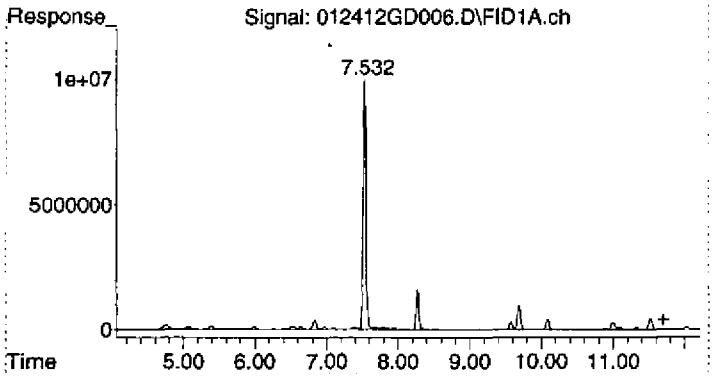
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD006.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 1:21 pm
Operator : Ex.4-CBI
Sample : 2010034-CAL2
Misc : 100ug/L, 1J17001, WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:47:58 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:47:49 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 218533024
Conc: 98.15 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD007.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 1:49 pm
Operator : Ex. 4 - CBI
Sample : 2010034-CAL3
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:16 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	299671111	124.654 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery =	99.72%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1172336253	526.544 ug/L

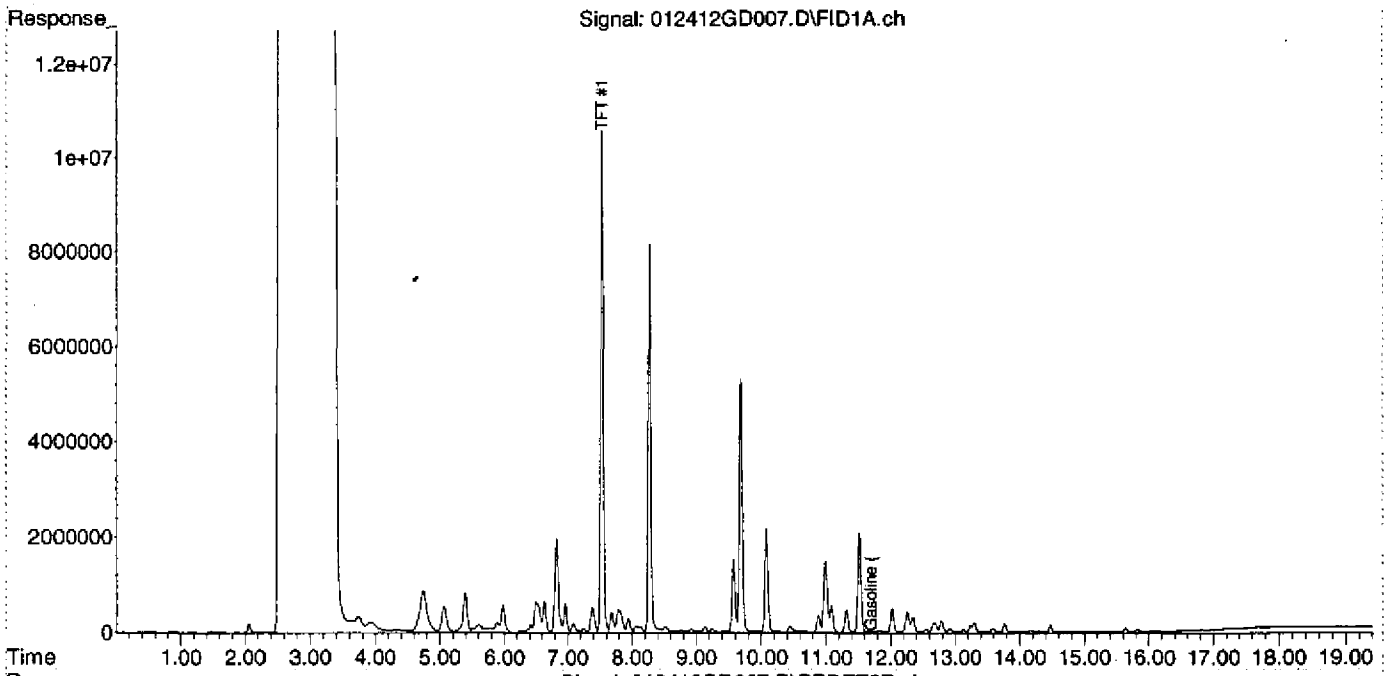
(f)=RT Delta > 1/2 Window (m)=manual int.

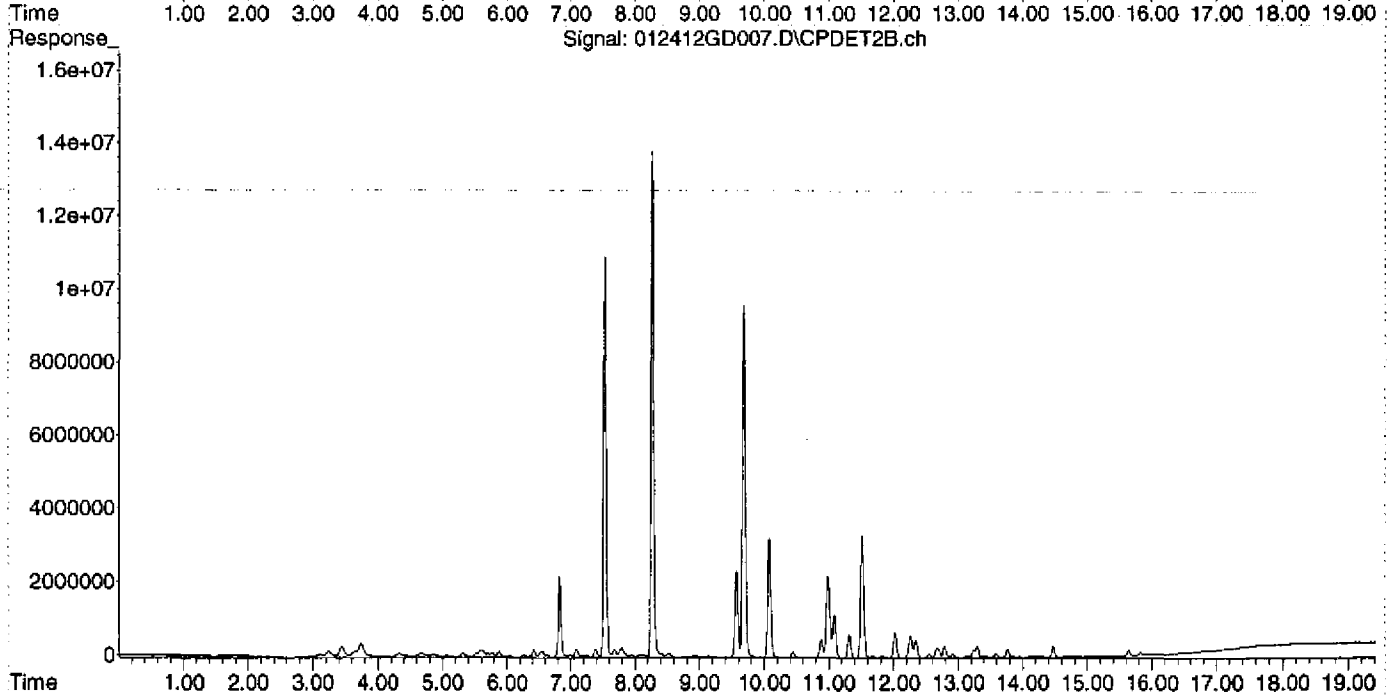
Quantitation Report (Not Reviewed)

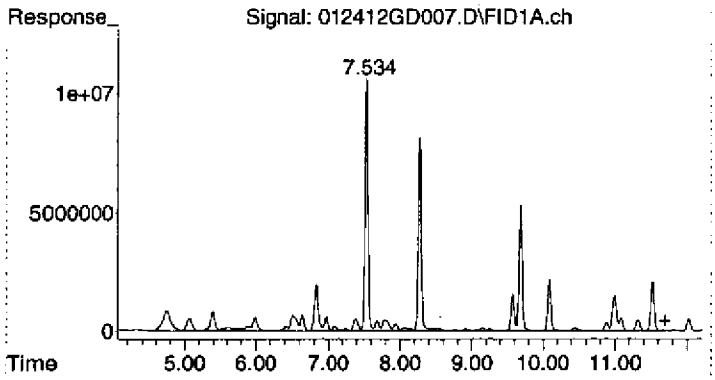
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD007.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 1:49 pm
Operator : Ex. 4 - CBI
Sample : 2010034-CAL3
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:16 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1172336253
Conc: 526.54 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD008.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 2:17 pm
Operator : Ex.4-CBI
Sample : 2010034-CAL4
Misc : 1000ug/L, 1J17001, WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:36 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	310316314	129.082 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 103.27%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	2253858087	1012.300 ug/L

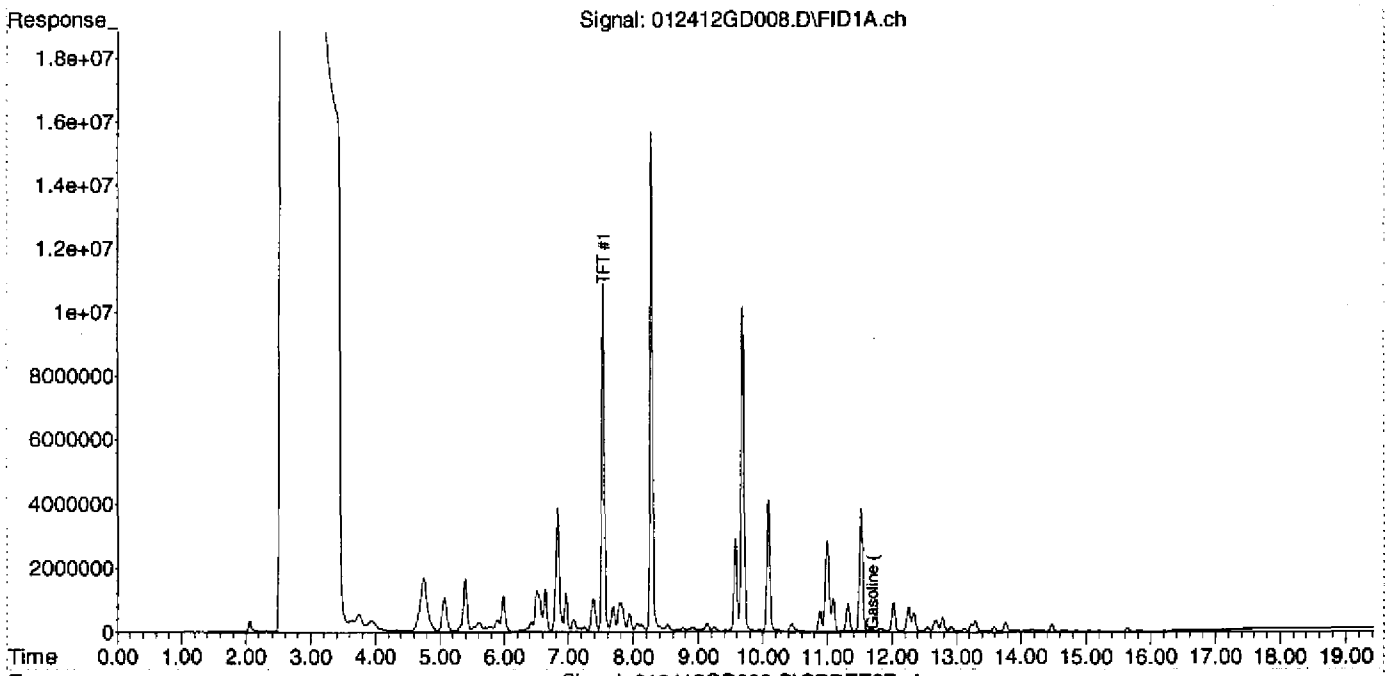
(f)=RT Delta > 1/2 Window (m)=manual int.

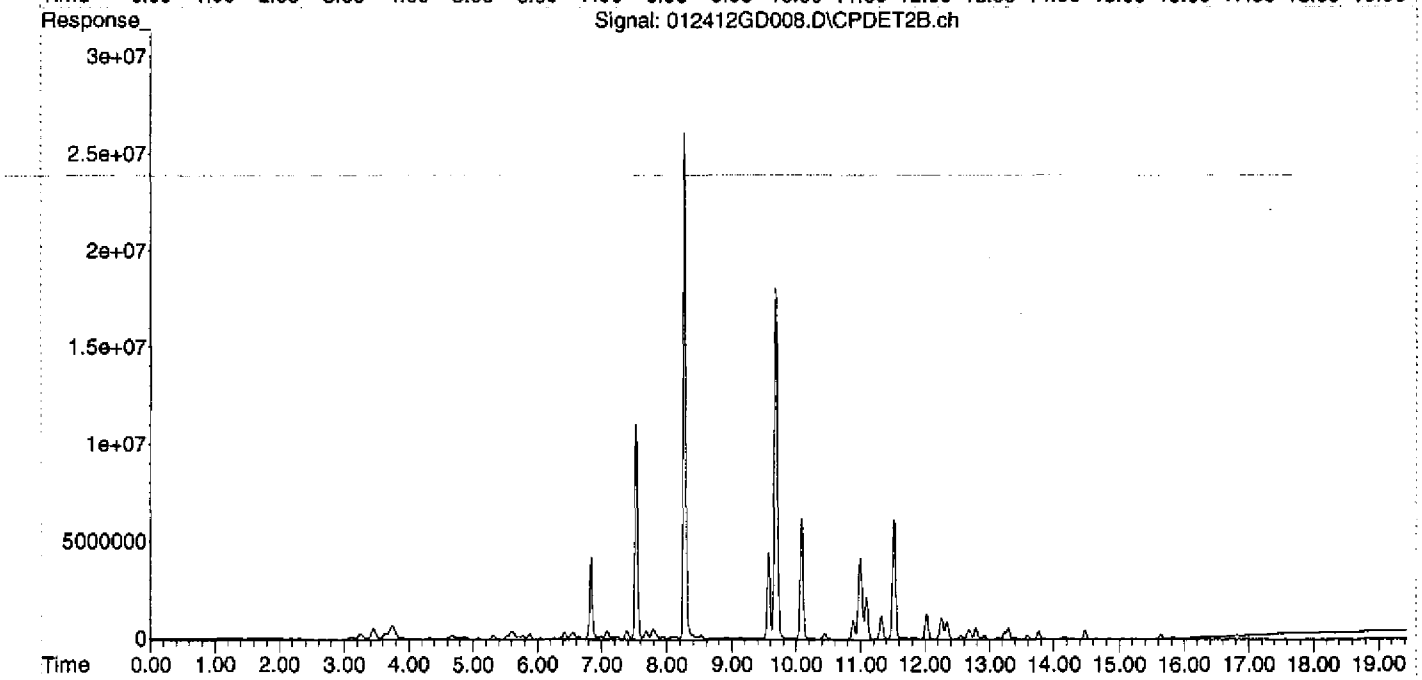
Quantitation Report (Not Reviewed)

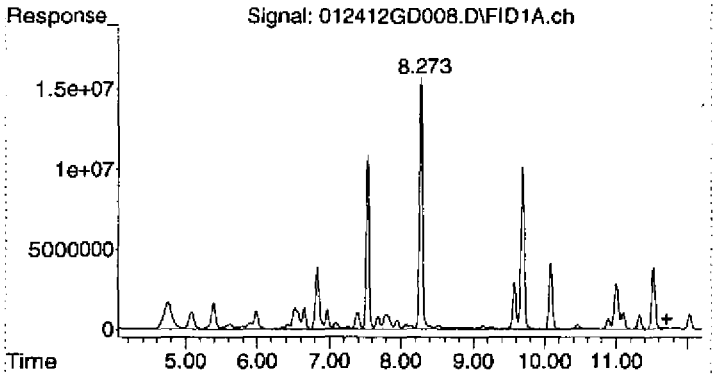
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD008.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 2:17 pm
Operator : Ex.4-CBI
Sample : 2010034-CAL4
Misc : 1000ug/L, 1J17001, WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:36 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:28 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 2253858087
Conc: 1012.30 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD009.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 2:46 pm
Operator : Ex. 4 - CBI
Sample : 2UI0U34-CAL5
Misc : 2000ug/L, 1J17001, WATER
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:53 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:45 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	311803981	129.700 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery = 103.76%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	4224310922	1897.311 ug/L

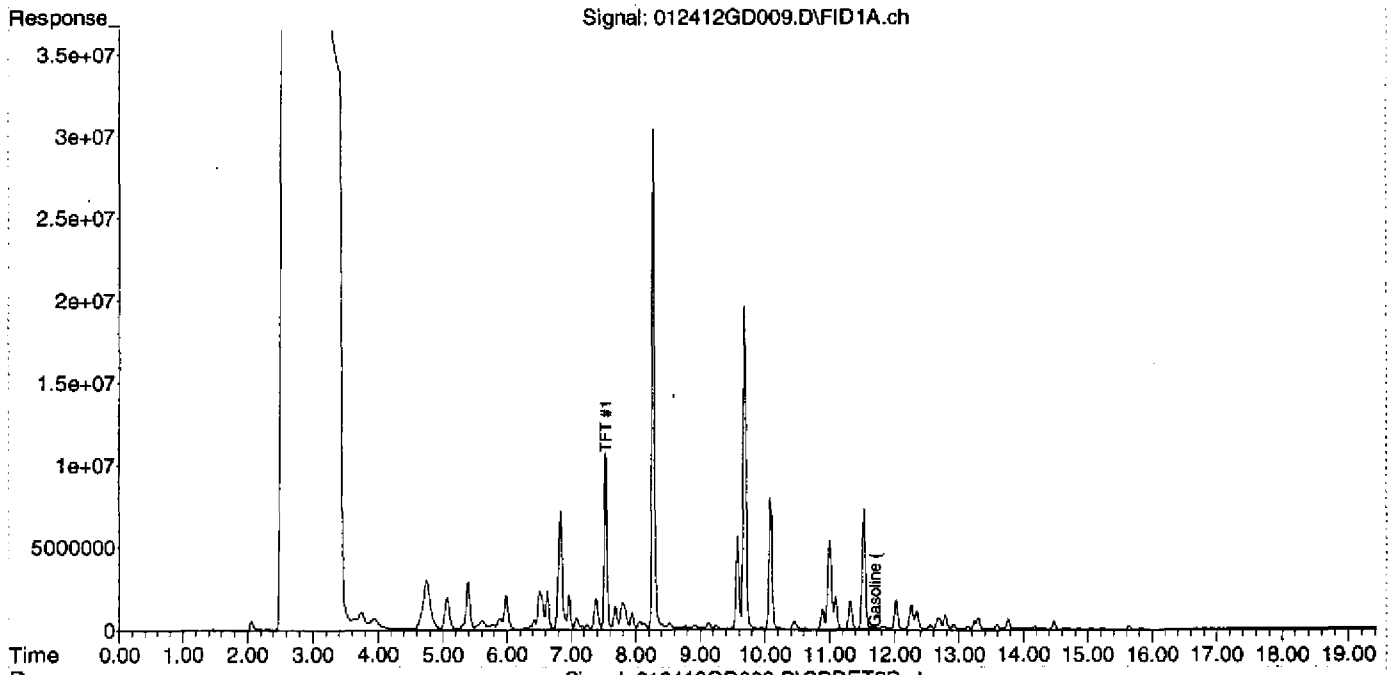
(f)=RT Delta > 1/2 Window (m)=manual int.

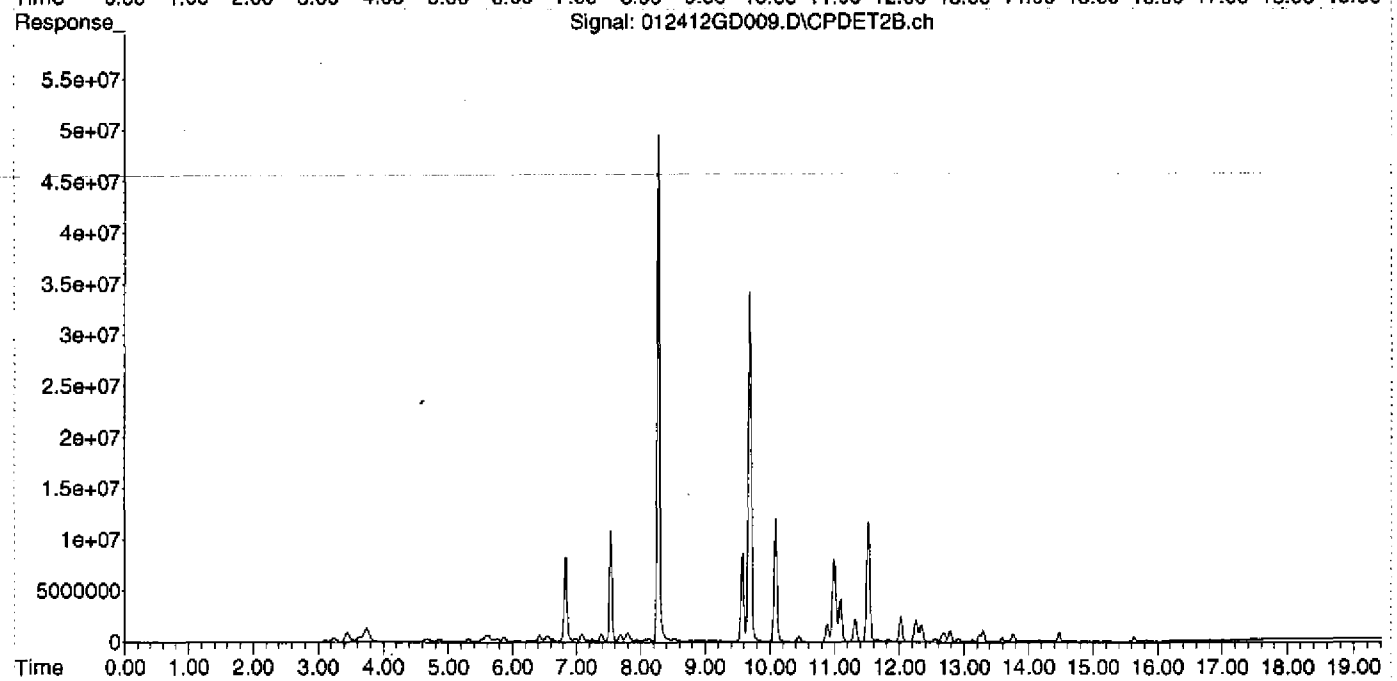
Quantitation Report (Not Reviewed)

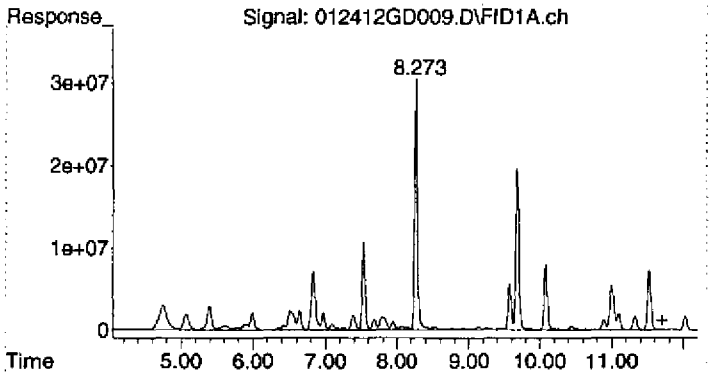
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD009.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 2:46 pm
Operator : Ex. 4 - CBI
Sample : 2010034-CAL5
Misc : 2000ug/L, 1J17001, WATER
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:48:53 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:48:45 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 4224310922
Conc: 1897.31 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD010.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 3:15 pm
Operator : Ex.4-CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:47 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	284524955	118.353 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 94.68%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	7452979	3.347 ug/L

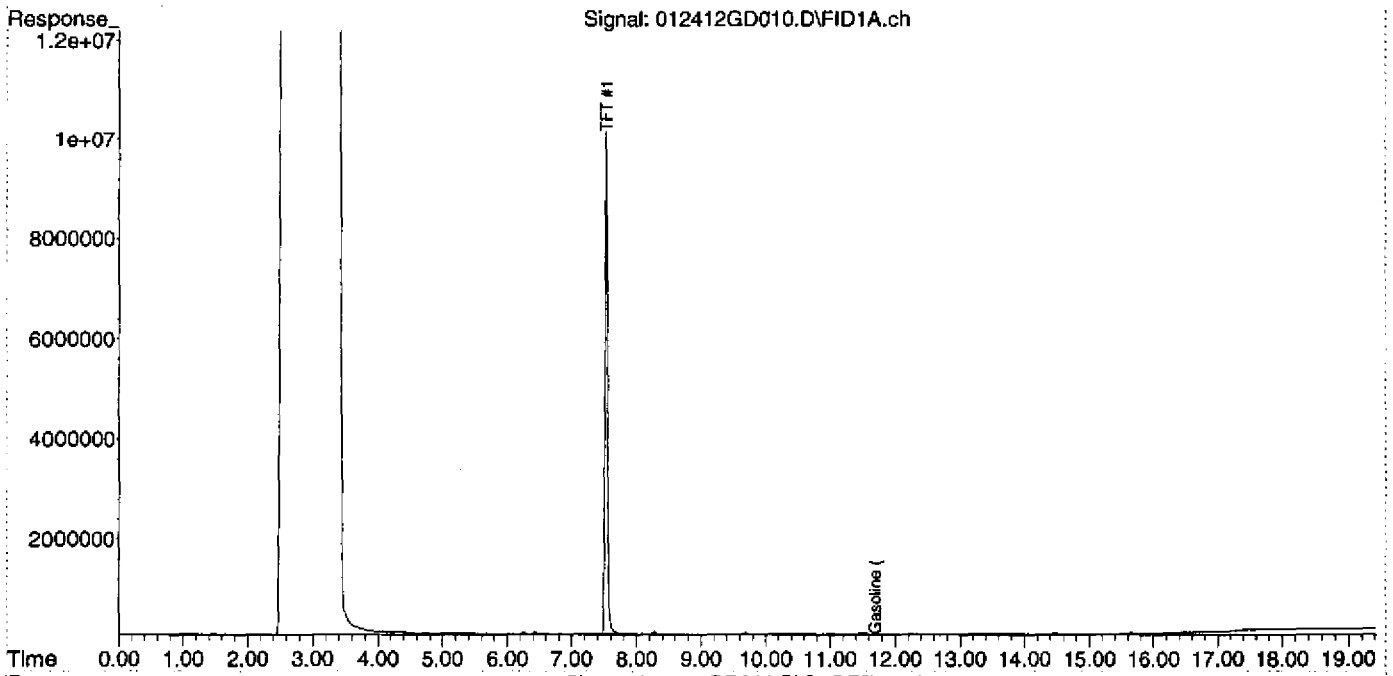
(f)=RT Delta > 1/2 Window (m)=manual int.

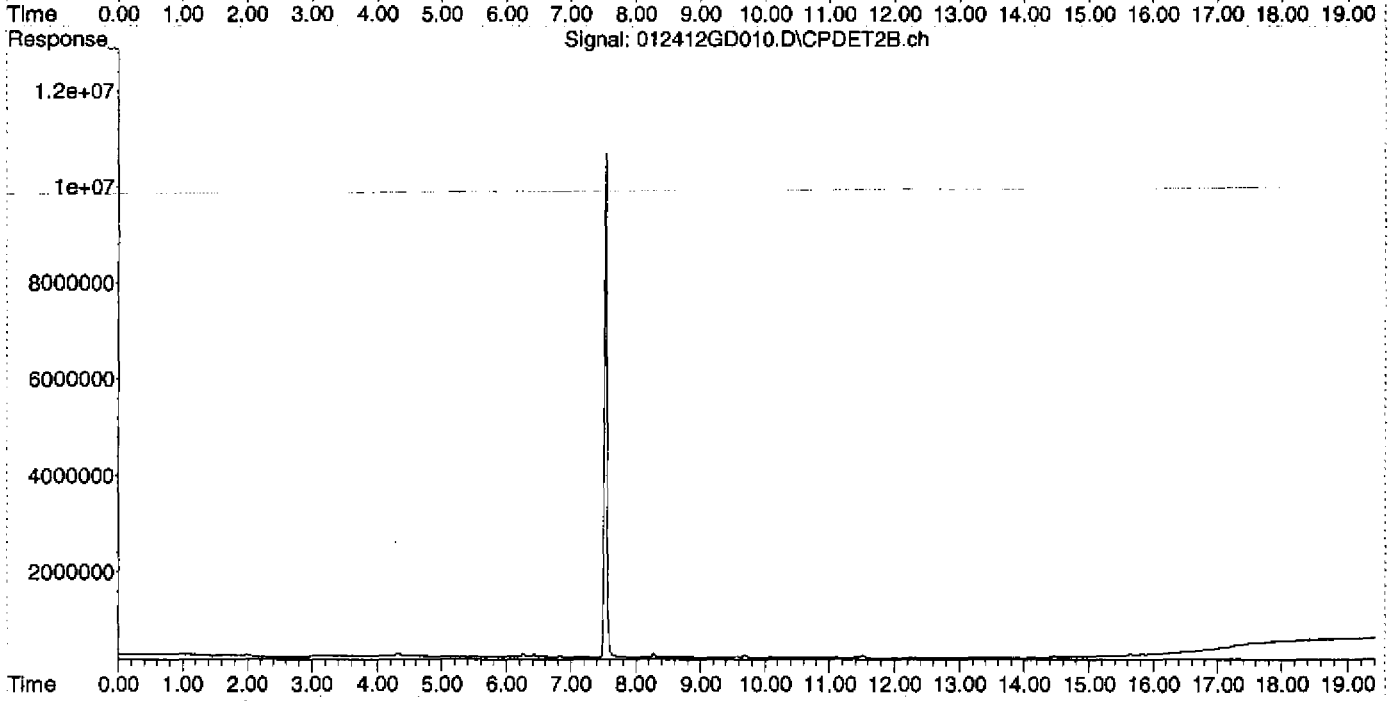
Quantitation Report (Not Reviewed)

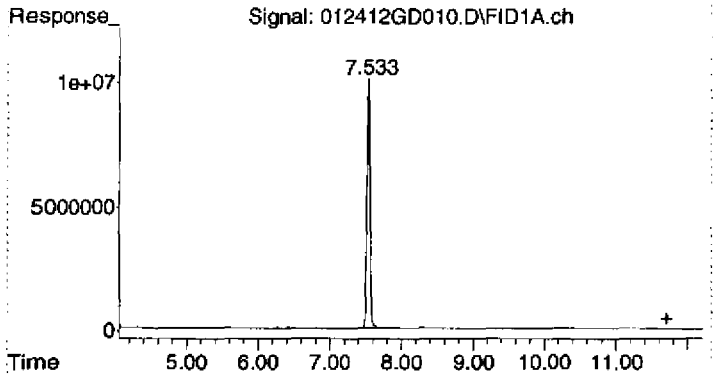
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD010.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 3:15 pm
Operator : Ex.4-CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:47 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	7452979
Conc:	3.35 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD011.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 3:43 pm
Operator : Ex. 4 - CBI
Sample : 2U10034-SCV1
Misc : 500ug/L, 2A10001, WATER
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:52 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	300843342	125.141 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 100.11%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1247745231	560.413 ug/L

112%
70-130 limit
Ex. 4 - CBI
01.25.12

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

$$\frac{300843342}{2404000} = 125.143$$

100.1%
YNB
01.25.12

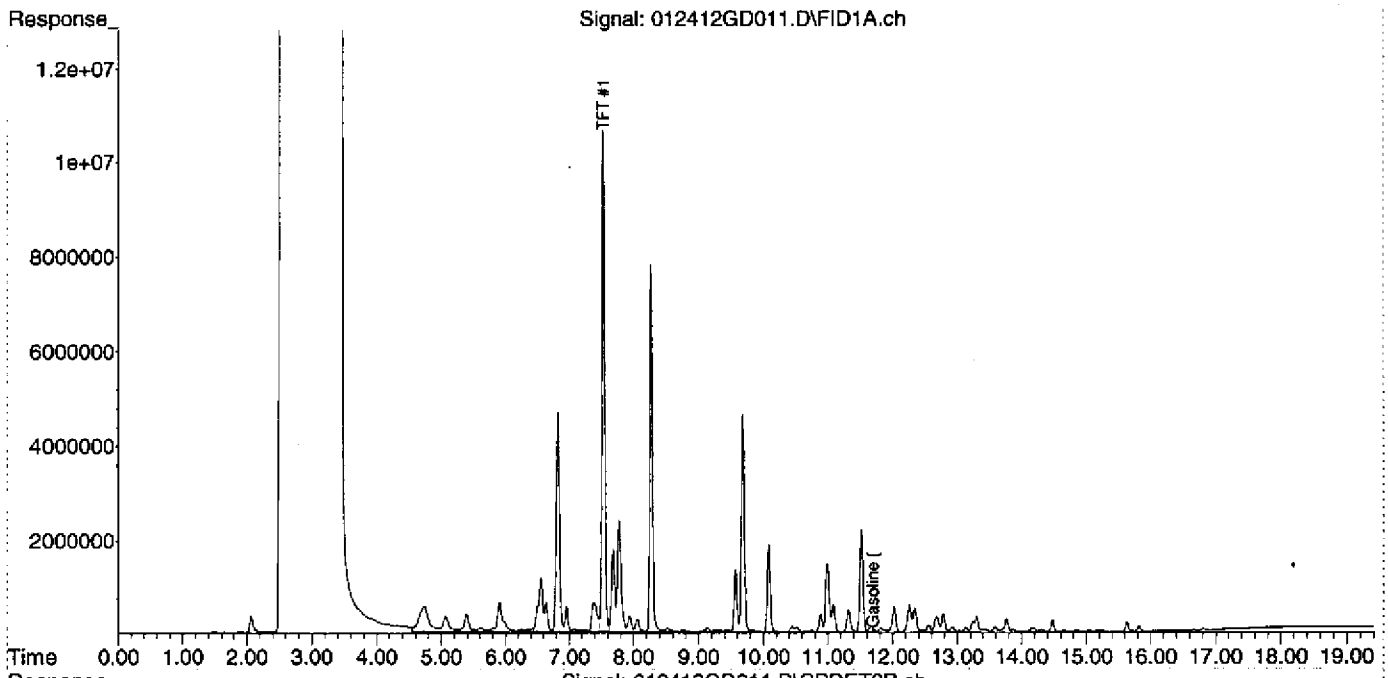
00063

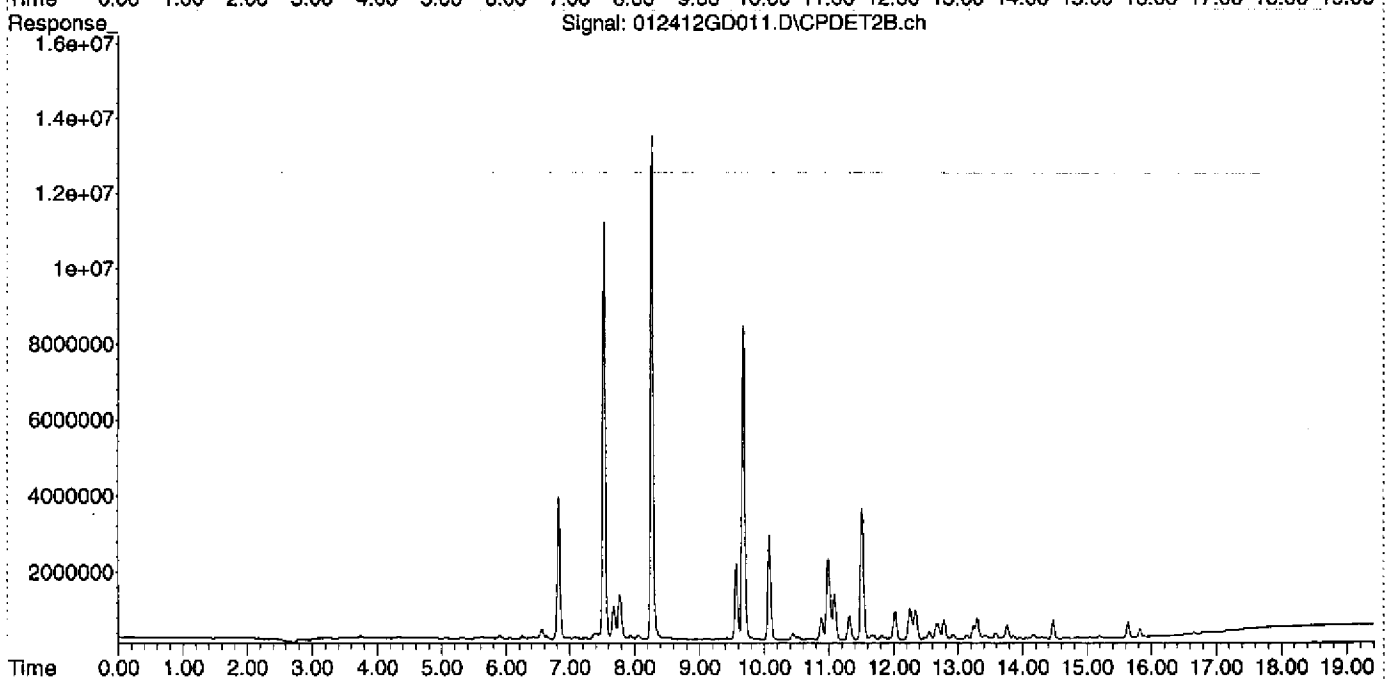
Quantitation Report (Not Reviewed)

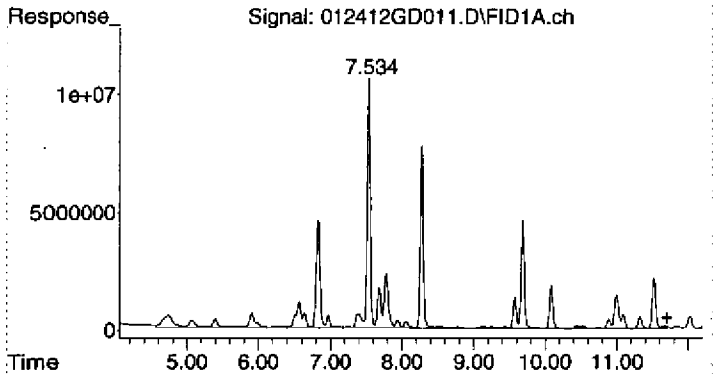
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD011.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 3:43 pm
Operator : Ex.4: CBI
Sample : 2010034-SCV1
Misc : 500ug/L, 2A10001, WATER
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:52 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1247745231
Conc: 560.41 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD012.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 4:12 pm
Operator : Ex. 4 - CBI
Sample : 2010034-ICB1
Misc : NAPHTHA, 2A10005, WATER
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:57 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	311267294	129.477 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 103.58%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1077272029	483.847 ug/L

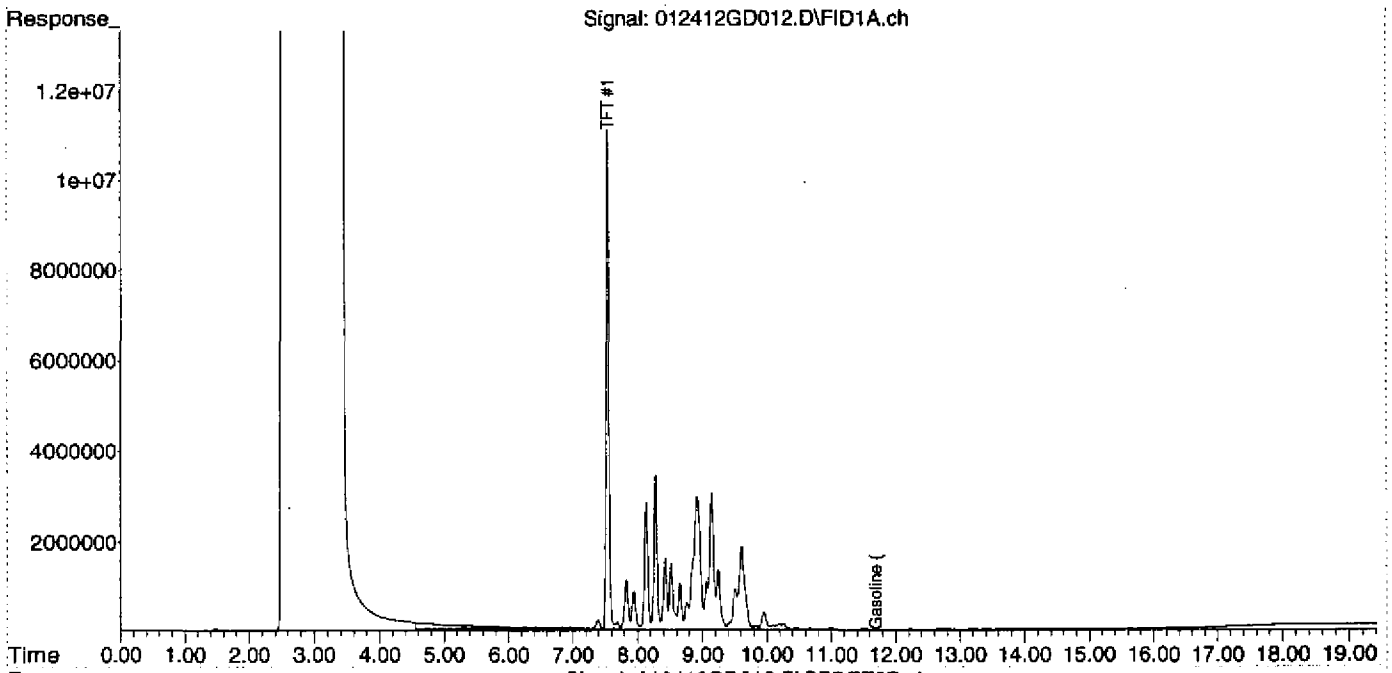
(f)=RT Delta > 1/2 Window (m)=manual int.

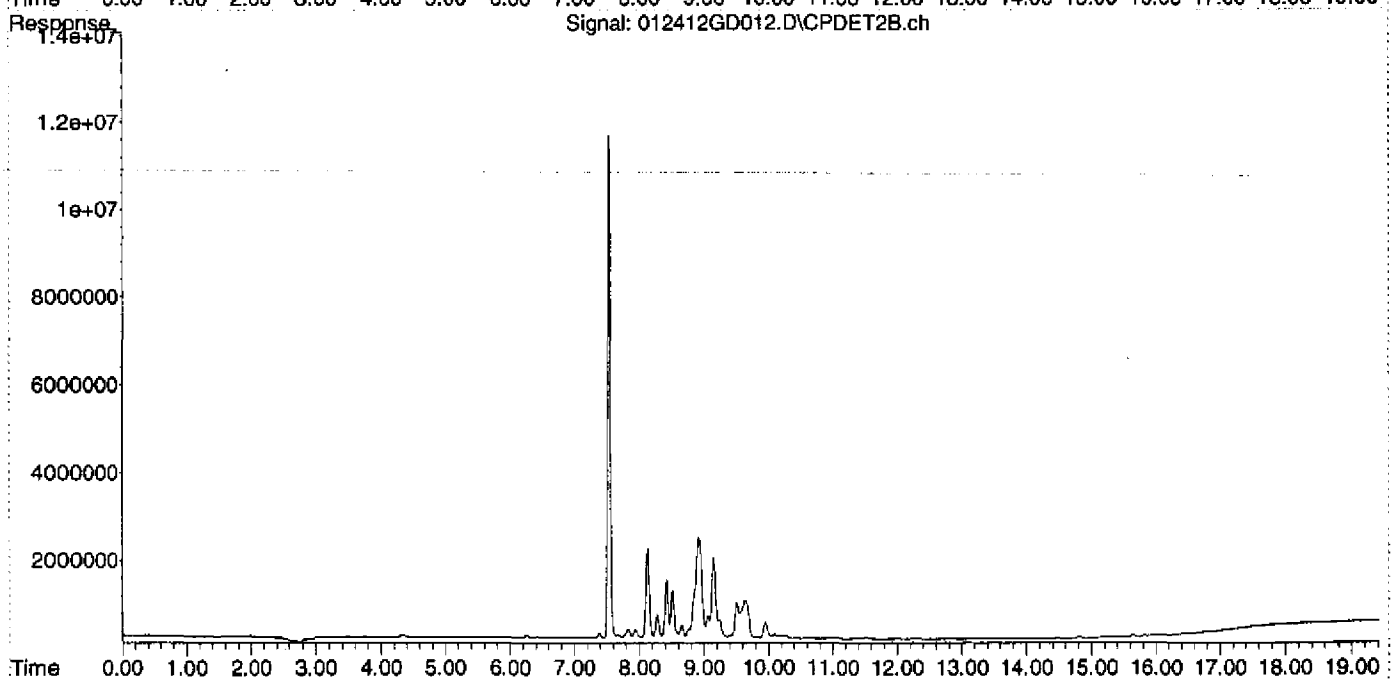
Quantitation Report (Not Reviewed)

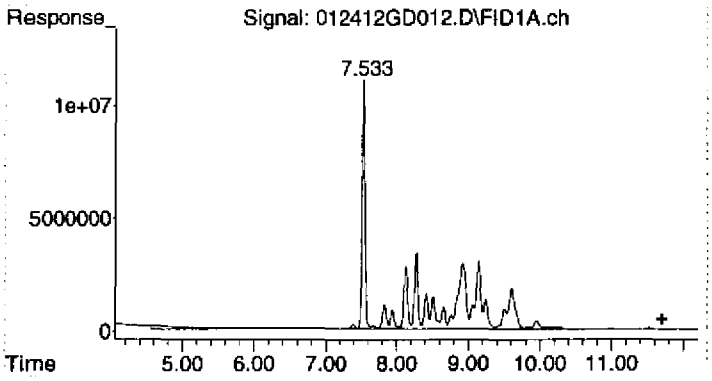
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD012.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 4:12 pm
Operator : Ex.4-CBI
Sample : 2010034-ICB1
Misc : NAPHTHA, 2A10005, WATER
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:53:57 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1077272029
Conc: 483.85 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD013.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 4:40 pm
Operator : Ex. 4 - CBI
Sample : 2010034-ICB2
Misc : TURPENTINE, 2A10006, WATER
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:54:02 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	306892279	127.657 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery = 102.13%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1159143162	520.619 ug/L

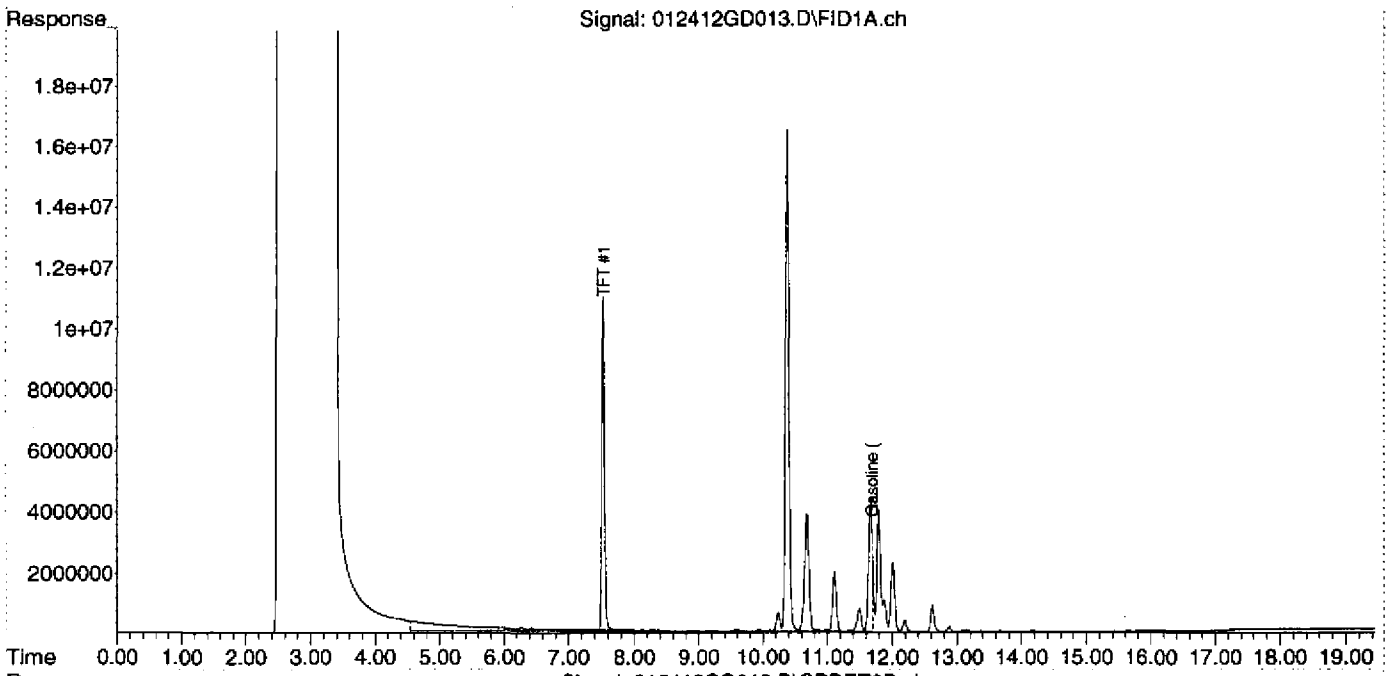
(f)=RT Delta > 1/2 Window (m)=manual int.

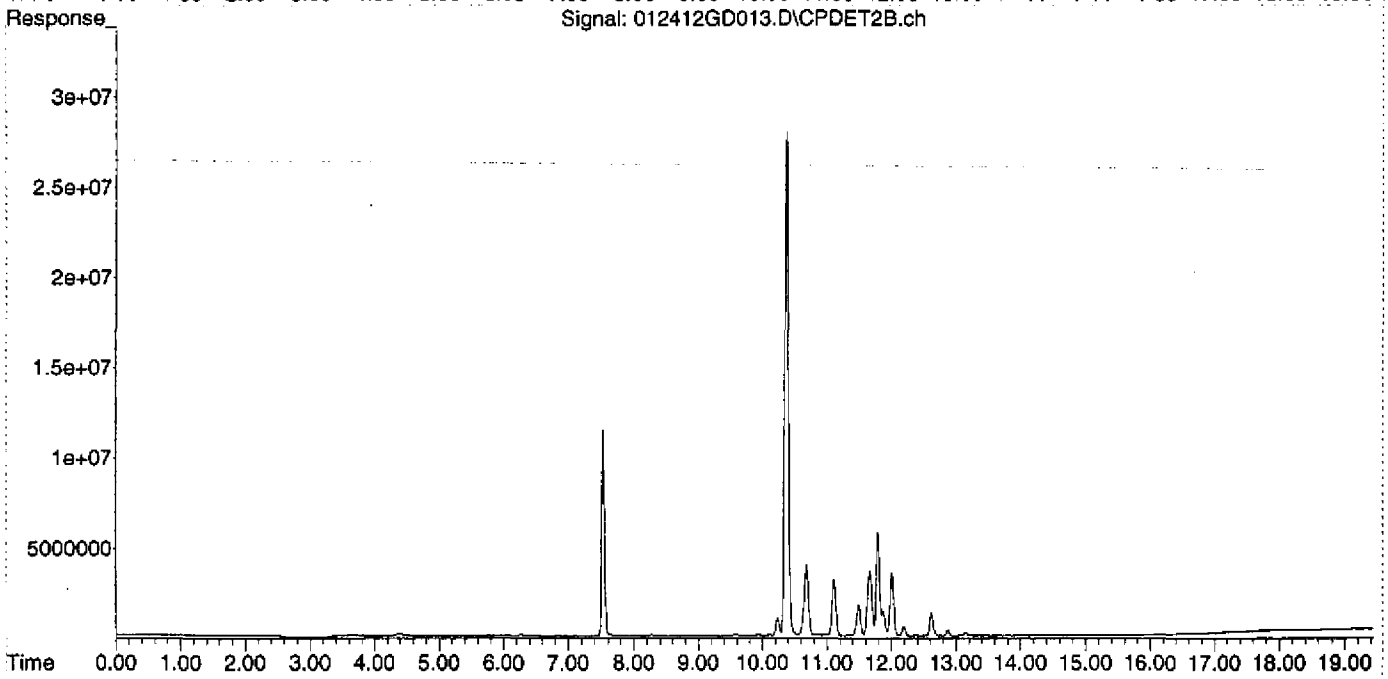
Quantitation Report (Not Reviewed)

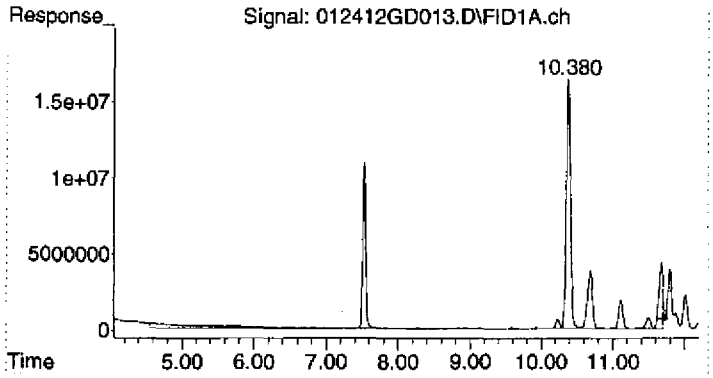
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD013.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 4:40 pm
Operator : [redacted]
Sample : 2010034-ICB2
Misc : TURPENTINE, 2A10006, WATER
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:54:02 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1159143162
Conc: 520.62 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD014.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 5:08 pm
Operator : Ex 4 - CBI
Sample : 2010034-ICB3
Misc : MIN.SPIRITS, 2A10007, WATER
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	296943864	123.519 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.82%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	599539717	269.278 ug/L

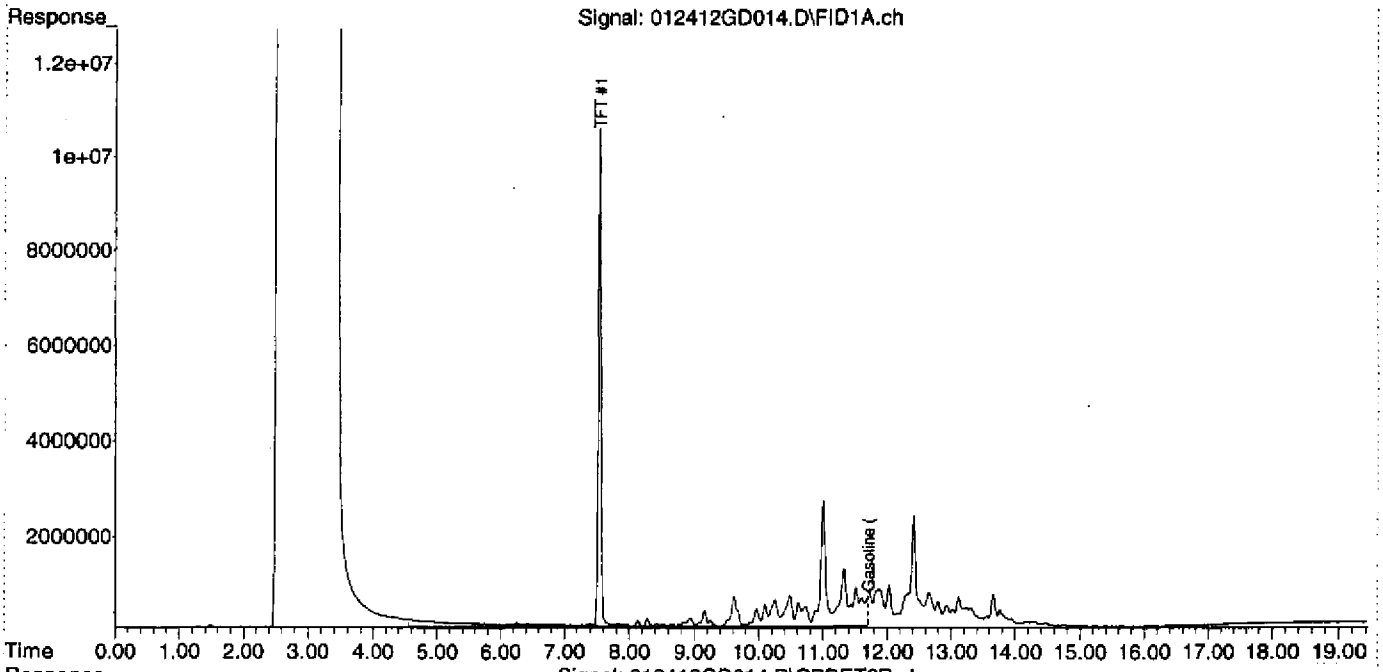
(f)=RT Delta > 1/2 Window (m)=manual int.

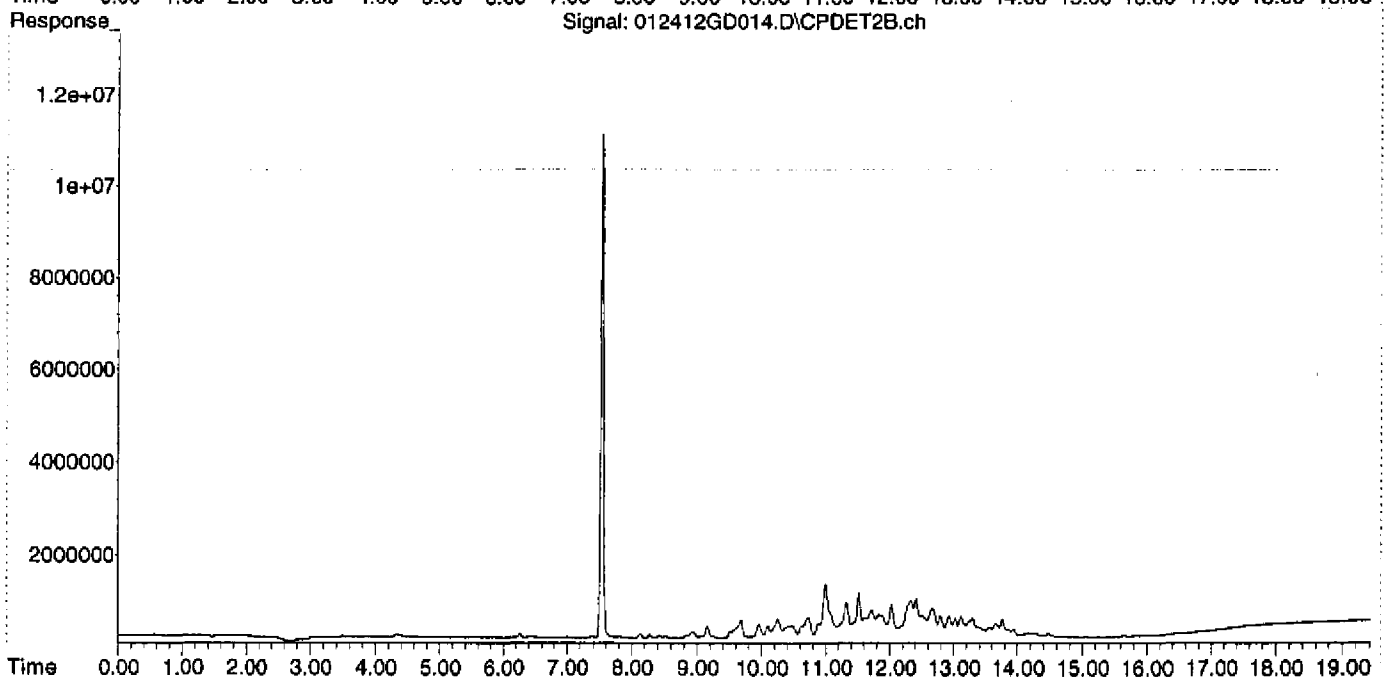
Quantitation Report (Not Reviewed)

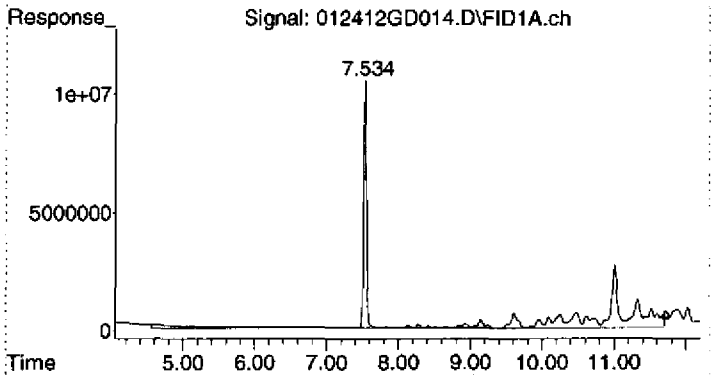
Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD014.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 5:08 pm
Operator : Ex. 4 - CBI
Sample : 2010034-ICB3
Misc : MIN.SPIRITS, 2A10007, WATER
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 599539717
Conc: 269.28 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD015.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 5:37 pm
Operator : Ex.4-CBI
Sample : 2010034-ICB4
Misc : LACQUER, 2A10009, WATER
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:33 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	309270315	128.647 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 102.92%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	754083820	338.690 ug/L

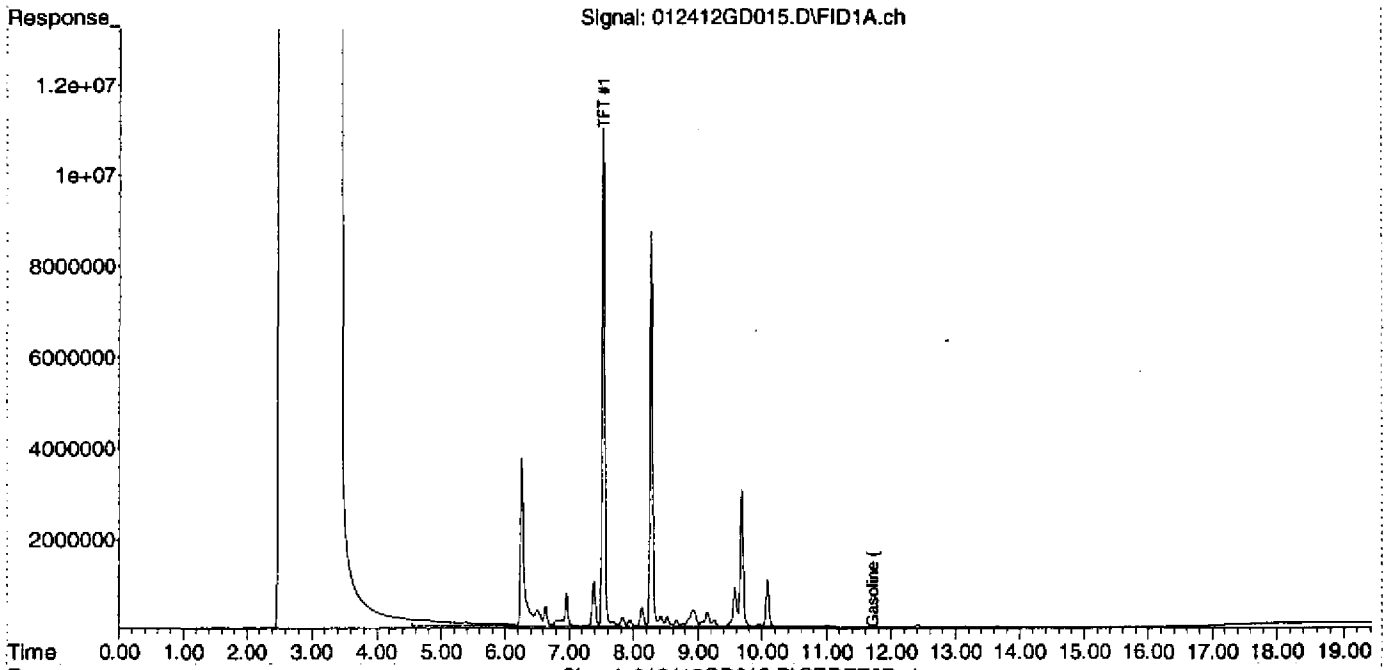
(f)=RT Delta > 1/2 Window (m)=manual int.

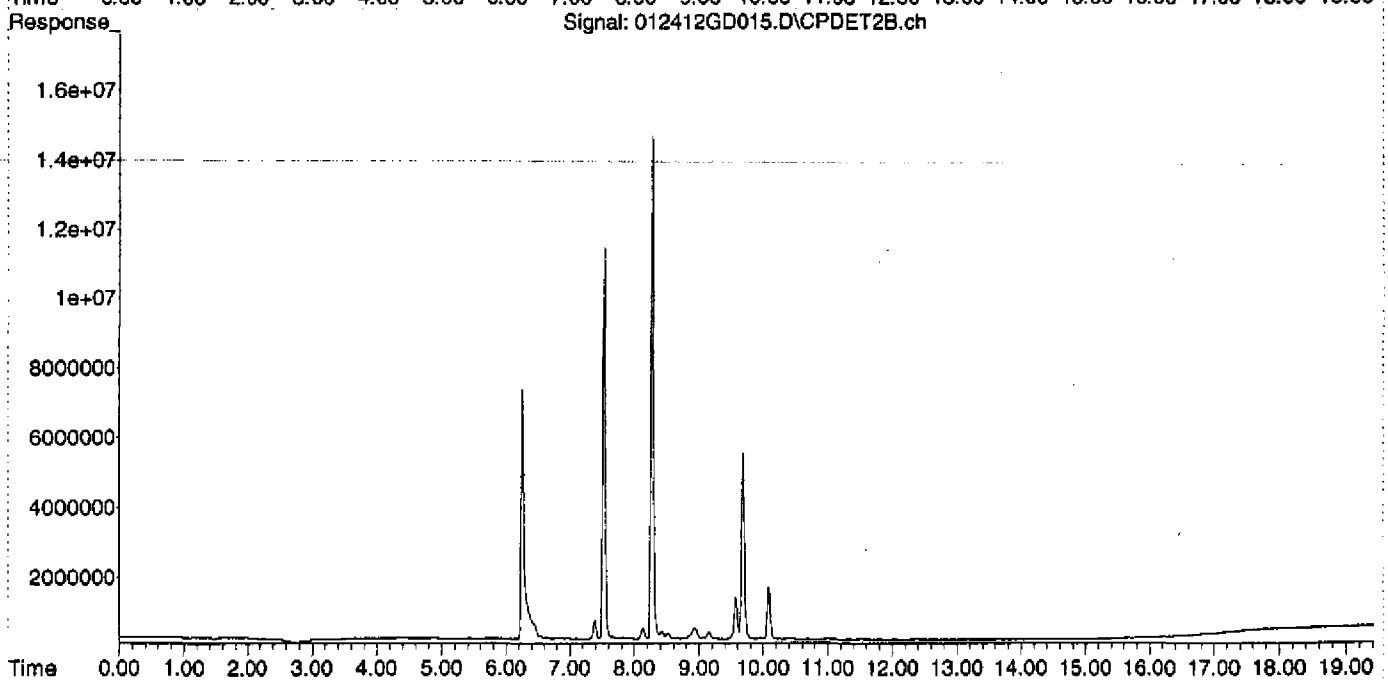
Quantitation Report (Not Reviewed)

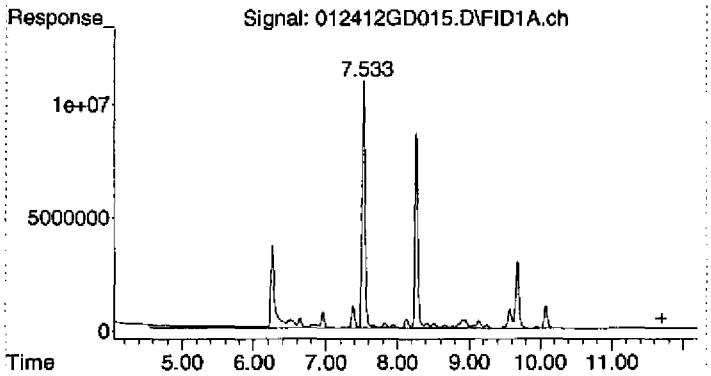
Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD015.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 5:37 pm
Operator : Ex.4-CBI
Sample : 2010034-ICB4
Misc : LACQUER, 2A10009, WATER
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:33 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 754083820
Conc: 338.69 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD016.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 6:05 pm
Operator : Ex. 4 - CBI
Sample : 2010034-ICB5
Misc : STODDARD, 2A10011, WATER
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	308691996	128.406 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 102.72%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	784682890	352.433 ug/L

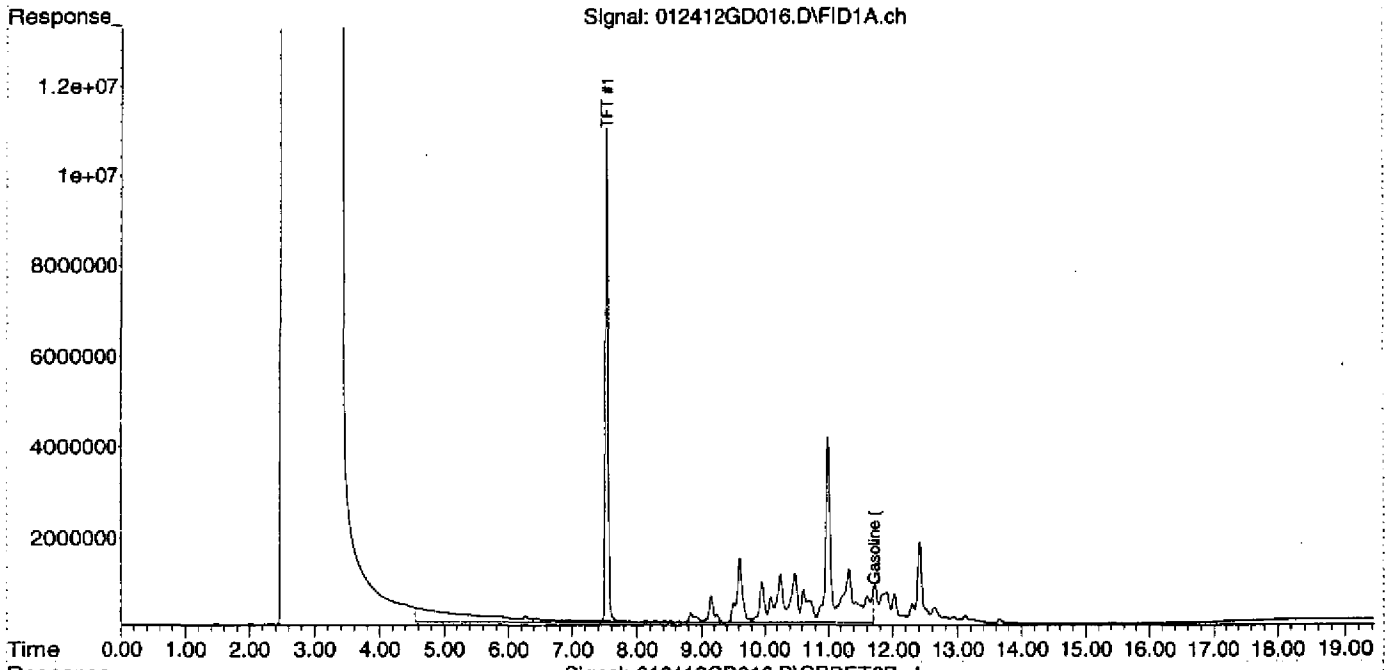
(f)=RT Delta > 1/2 Window (m)=manual int.

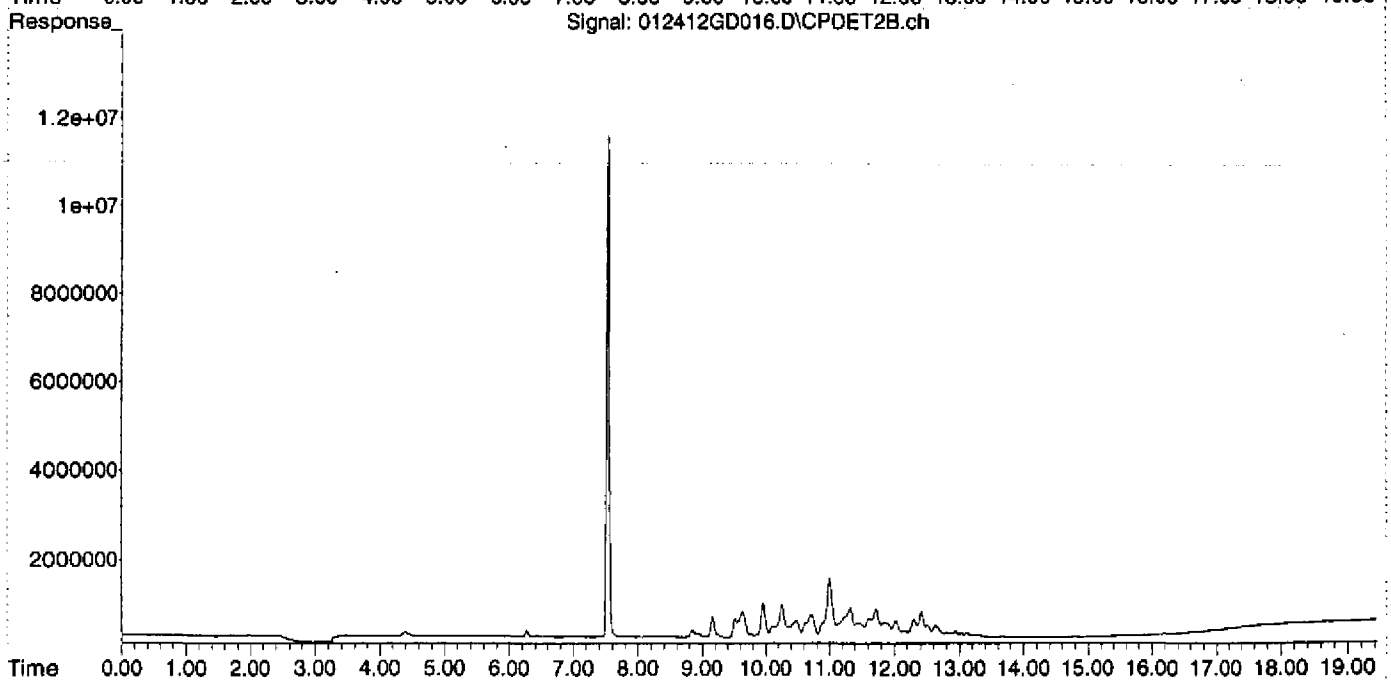
Quantitation Report (Not Reviewed)

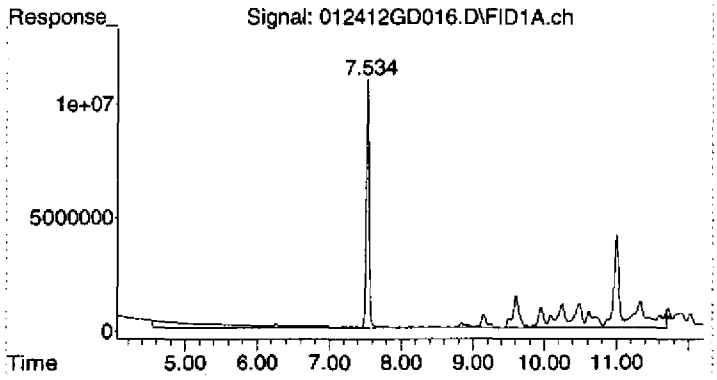
Data Path : D:\MSDCHEM\2012\data\012412\
Data File : 012412GD016.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 6:05 pm
Operator : Ex. 4 - CBI
Sample : 20TU034-ICB5
Misc : STODDARD, 2A10011, WATER
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 02 13:55:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 784682890
Conc: 352.43 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD017.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 6:33 pm
Operator : Ex.4-CBI
Sample : 2010034-ICB6
Misc : DIESEL, 2A10012, WATER
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:54:21 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	298106667	124.003 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery =	99.20%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	8589720068	3857.995 ug/L

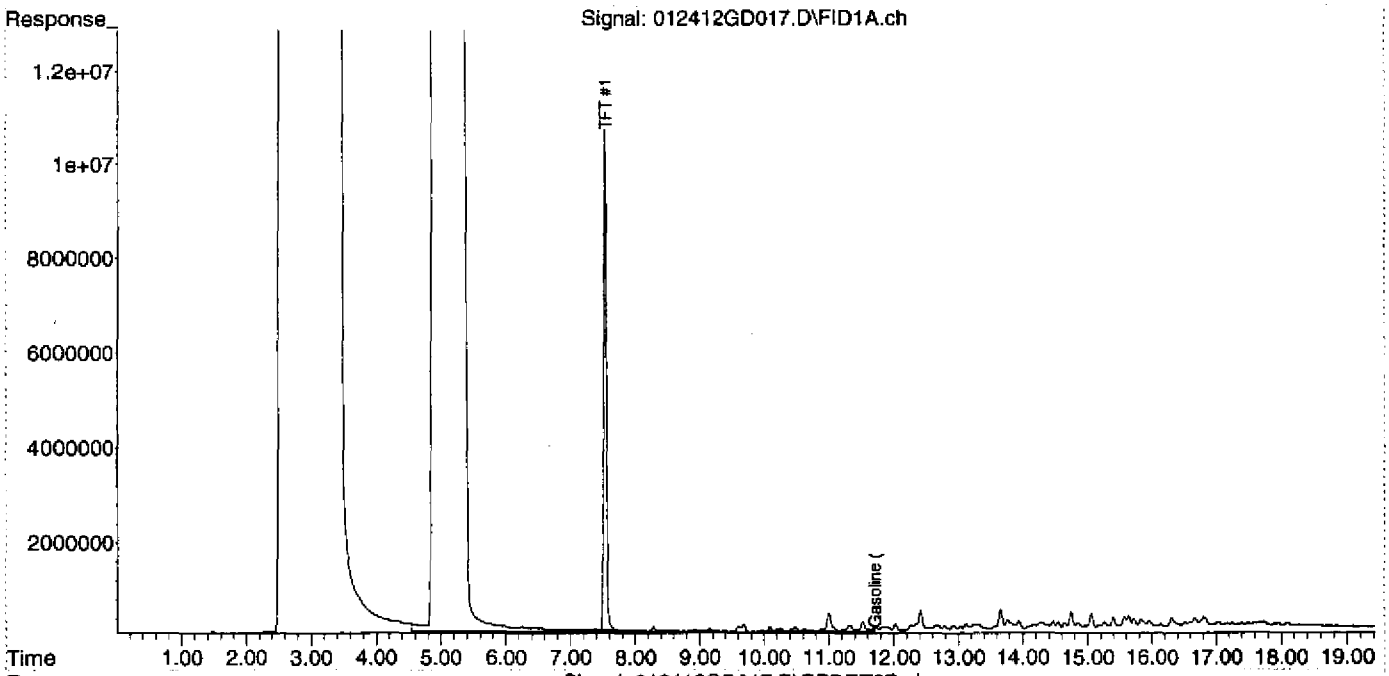
(f)=RT Delta > 1/2 Window (m)=manual int.

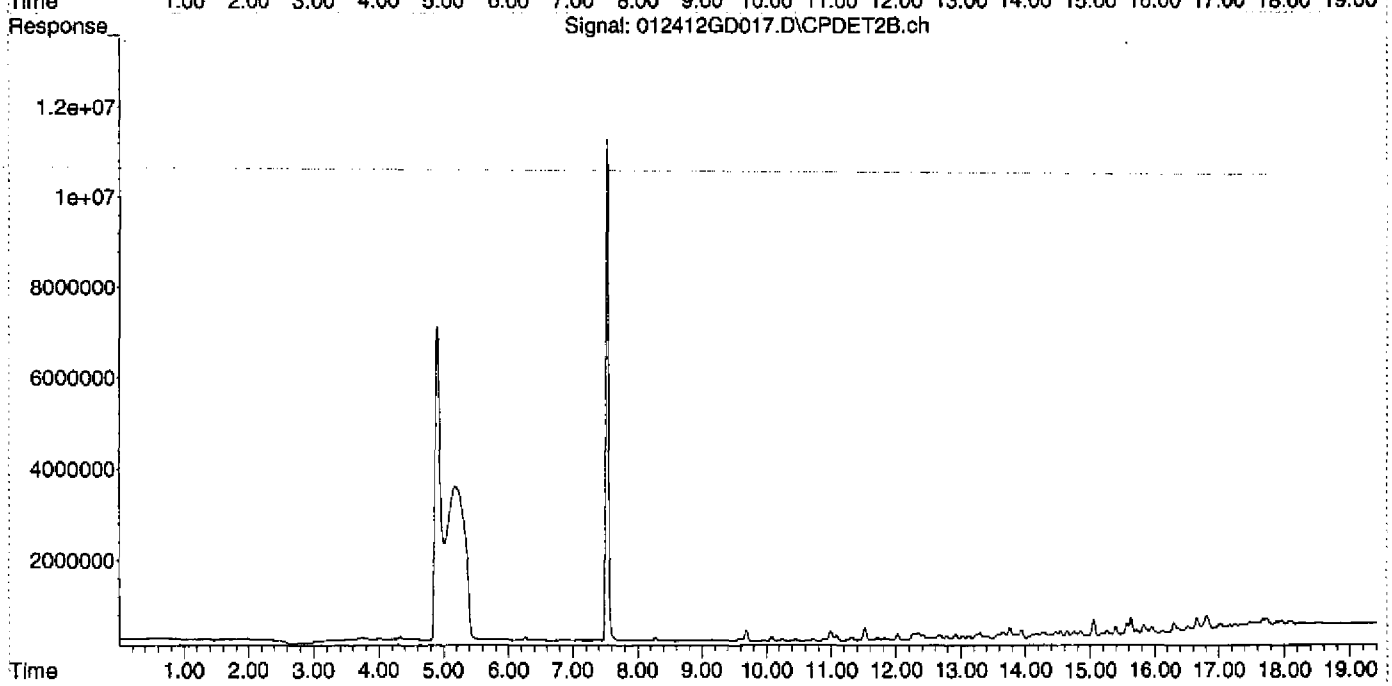
Quantitation Report (Not Reviewed)

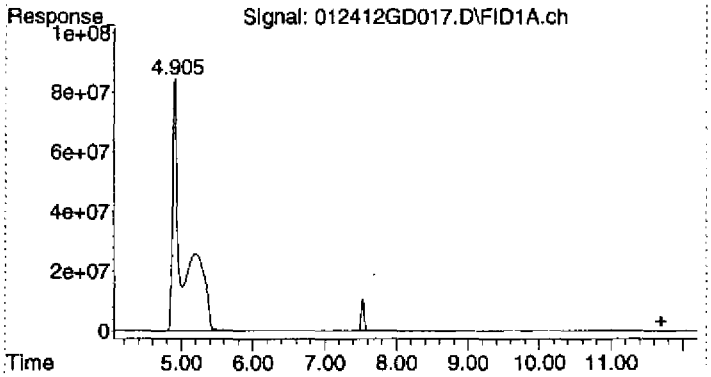
Data Path : D:\MSDCHEM\Data\012412\
Data File : 012412GD017.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 24 Jan 2012 6:33 pm
Operator : Ex. 4 - CBI
Sample : 2010034-ICB6
Misc : DIESEL, 2A10012, WATER
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jan 25 10:54:21 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : DB-624 75m Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 8589720068
Conc: 3858.00 ug/L

SDG: P33911 / 12076B
Instrument: A65975D
Analysis Date: 02.15.12

SAMPLE DATA

G:\USER\ESAT\1 Organic Group\Forms\DataPackageSeparators.doc

Injection Log

Operator: YNB
Directory: I:\Data\ROOM209\AG5975 D\2012\data\021512DGAS\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	021512GD001.D	1	2020051-IBL1	2A24003, IB	15 Feb 2012 12:30 pm
2	021512GD002.D	1	2020051-CCV1	500ug/L, 1J17001, WATER	15 Feb 2012 12:59 pm
3	021512GD003.D	1	2020051-LCV1	50ug/L, 1J17001, WATER	15 Feb 2012 1:27 pm
4	021512GD004.D	1	B2B0075-BLK1	BLANK, WATER	15 Feb 2012 1:56 pm
5	021512GD005.D	1	B2B0075-BS1	500ug/L, 1J17001, WATER	15 Feb 2012 2:24 pm
6	021512GD006.D	1	1202038-01	HW11-P,C, WATER	15 Feb 2012 2:53 pm
7	021512GD007.D	1	1202038-02	HW53,C, WATER	15 Feb 2012 3:21 pm
8	021512GD008.D	1	1202038-03	HW53-P,D, WATER	15 Feb 2012 3:50 pm
9	021512GD009.D	1	1202038-04	TB42,A, WATER	15 Feb 2012 4:18 pm
10	021512GD010.D	1	1202038-05	FB17,C, WATER	15 Feb 2012 4:46 pm
11	021512GD011.D	1	1202038-06	HW57-P,C, WATER	15 Feb 2012 5:14 pm
12	021512GD012.D	1	1202038-07	HW59,C, WATER	15 Feb 2012 5:43 pm
13	021512GD013.D	1	1202038-08	TB44,A, WATER	15 Feb 2012 6:11 pm
14	021512GD014.D	1	1202038-09	HW11,C, WATER	15 Feb 2012 6:40 pm
15	021512GD015.D	1	1202038-10	TB43,A, WATER	15 Feb 2012 7:08 pm
16	021512GD016.D	1	1202038-12	HW27,D, WATER	15 Feb 2012 7:37 pm
17	021512GD017.D	1	1202038-13	HW27z,D, WATER	15 Feb 2012 8:05 pm
18	021512GD018.D	1	1202038-18	HW55,I, WATER	15 Feb 2012 8:34 pm
19	021512GD019.D	1	B2B0075-MS1	HW55,J, WATER SPIKE	15 Feb 2012 9:02 pm
20	021512GD020.D	1	B2B0075-MSD1	HW55,G, WATER SPIKE	15 Feb 2012 9:30 pm
21	021512GD021.D	1	BLANK	BLANK, WATER	15 Feb 2012 9:59 pm
22	021512GD022.D	1	2020051-CCV2	500ug/L, 1J17001, WATER	15 Feb 2012 10:28 pm
23	021512GD023.D	1	2020051-CCV3	500ug/L, 1J17001, WATER	15 Feb 2012 10:57 pm
24	021512GD024.D	1	B2B0075-BLK2	BLANK, WATER	15 Feb 2012 11:25 pm
25	021512GD025.D	1	B2B0075-BS2	500ug/L, 1J17001, WATER	15 Feb 2012 11:54 pm
26	021512GD026.D	1	1202038-14	TB40,B, WATER	16 Feb 2012 12:22 am
27	021512GD027.D	1	1202038-15	HW03,C, WATER	16 Feb 2012 12:50 am
28	021512GD028.D	1	1202038-16	HW03z,C, WATER	16 Feb 2012 1:18 am
29	021512GD029.D	1	1202038-17	TB46,A, WATER	16 Feb 2012 1:47 am
30	021512GD030.D	1	1202038-19	TB41,A, WATER	16 Feb 2012 2:15 am
31	021512GD031.D	1	1202038-21	TB45,B, WATER	16 Feb 2012 2:43 am
32	021512GD032.D	1	1202038-22	HW58,D, WATER	16 Feb 2012 3:11 am
33	021512GD033.D	1	1202038-23	TB47,A, WATER	16 Feb 2012 3:40 am
34	021512GD034.D	1	1202038-20	HW57,G, WATER	16 Feb 2012 4:08 am
35	021512GD035.D	1	B2B0075-MS2	HW57,J, WATER SPIKE	16 Feb 2012 4:37 am
36	021512GD036.D	1	B2B0075-MSD2	HW57,I, WATER SPIKE	16 Feb 2012 5:05 am
37	021512GD037.D	1	BLANK	BLANK, WATER	16 Feb 2012 5:34 am
38	021512GD038.D	1	2020051-CCV4	500ug/L, 1J17001, WATER	16 Feb 2012 6:02 am
39	021512GD039.D	1	2020051-CCV5	500ug/L, 1J17001, WATER	16 Feb 2012 6:30 am

GC QA-QC Check Report

Daily Calibration File : D:\MSDCHEM\2012\data\021512DGAS\021512GD002.D
Time Acquired : 15 Feb 2012 12:59

File	Sample	Surrogate Recovery %	Internal Standard Responses
021512GD004.D	B2B0075-BLK1	112	
021512GD005.D	B2B0075-BS1	115	
021512GD006.D	1202038-01	110	
021512GD007.D	1202038-02	109	
021512GD008.D	1202038-03	112	
021512GD009.D	1202038-04	112	
021512GD010.D	1202038-05	114	
021512GD011.D	1202038-06	114	
021512GD012.D	1202038-07	113	
021512GD013.D	1202038-08	109	
021512GD014.D	1202038-09	112	
021512GD015.D	1202038-10	114	
021512GD016.D	1202038-12	111	
021512GD017.D	1202038-13	111	
021512GD018.D	1202038-18	112	
021512GD019.D	B2B0075-MS1	112	
021512GD020.D	B2B0075-MSD1	112	

(fails) - fails 12hr time check * - fails criteria

Created: Thu Feb 16 10:55:37 2012 GC-FID-PID

GC QA-QC Check Report

Daily Calibration File : D:\MSDCHEM\2012\data\021512DGAS\021512GD023.D
Time Acquired : 15 Feb 2012 22:57

File	Sample	Surrogate Recovery %	Internal Standard Responses
021512GD024.D	B2B0075-BLK2	114	
021512GD025.D	B2B0075-BS2	115	
021512GD026.D	1202038-14	112	
021512GD027.D	1202038-15	111	
021512GD028.D	1202038-16	108	
021512GD029.D	1202038-17	110	
021512GD030.D	1202038-19	113	
021512GD031.D	1202038-21	112	
021512GD032.D	1202038-22	114	
021512GD033.D	1202038-23	114	
021512GD034.D	1202038-20	114	
021512GD035.D	B2B0075-MS2	112	
021512GD036.D	B2B0075-MSD2	113	

(fails) - fails 12hr time check * - fails criteria

Created: Thu Feb 16 10:59:13 2012 GC-FID-PID

Response Factor Report GC-FID-PID

Method Path : C:\MSDCHEM\2\METHODS\
Method File : 012412TPH GAS.M
Title : GC TPH Method
Last Update : Wed Jan 25 10:49:01 2012
Response Via : Initial Calibration

Calibration Files
G50 =012412GD005.D G100 =012412GD006.D G500 =012412GD007.D
G1K =012412GD008.D G2K =012412GD009.D

	Compound	G50	G100	G500	G1K	G2K	Avg		%RSD
1)	HRM Gasoline (TPH) #1	2.236	2.185	2.345	2.254	2.112	2.226	E6	3.86
2)	S TFT #1	2.396	2.250	2.397	2.483	2.494	2.404	E6	4.06

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD001.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 12:30
Operator : Ex.4-CBI
Sample : 2020051-IBL1
Misc : 2A24003, IB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 13:08:42 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.519	326660570	135.880 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 108.70%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	19152440	8.602 ug/L

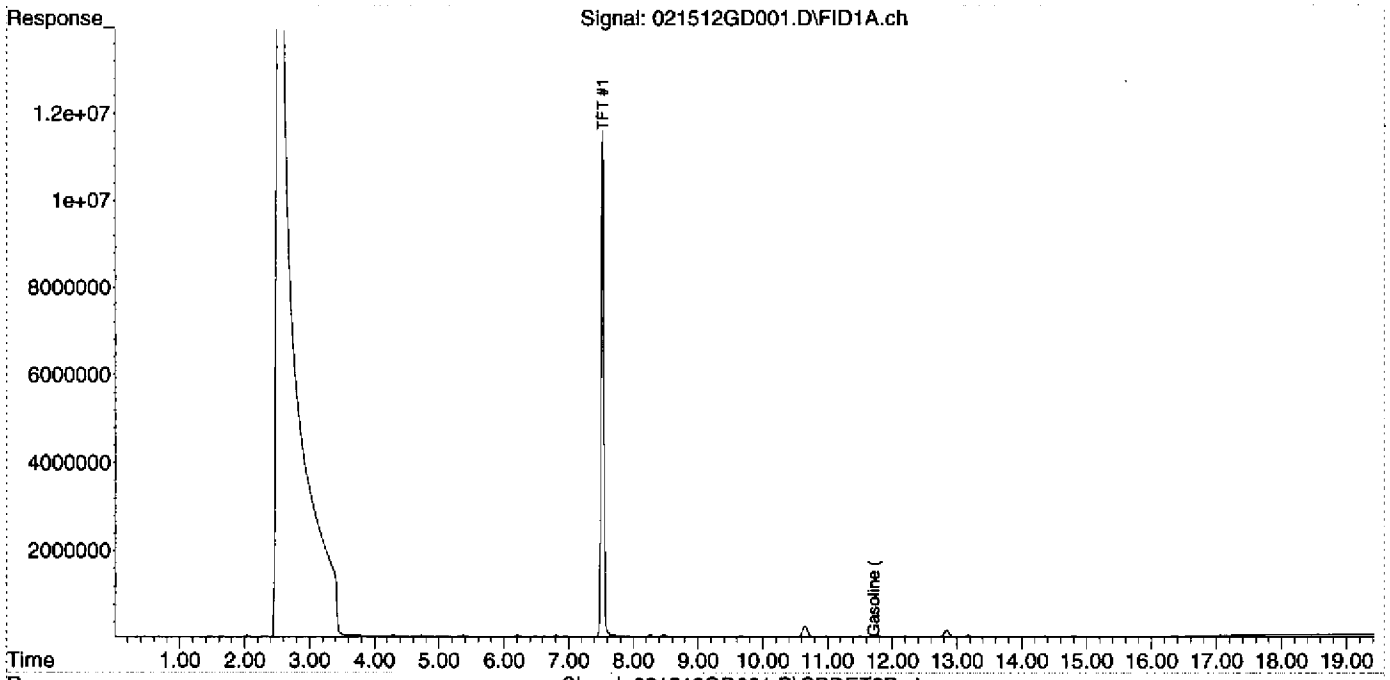
(f)=RT Delta > 1/2 Window (m)=manual int.

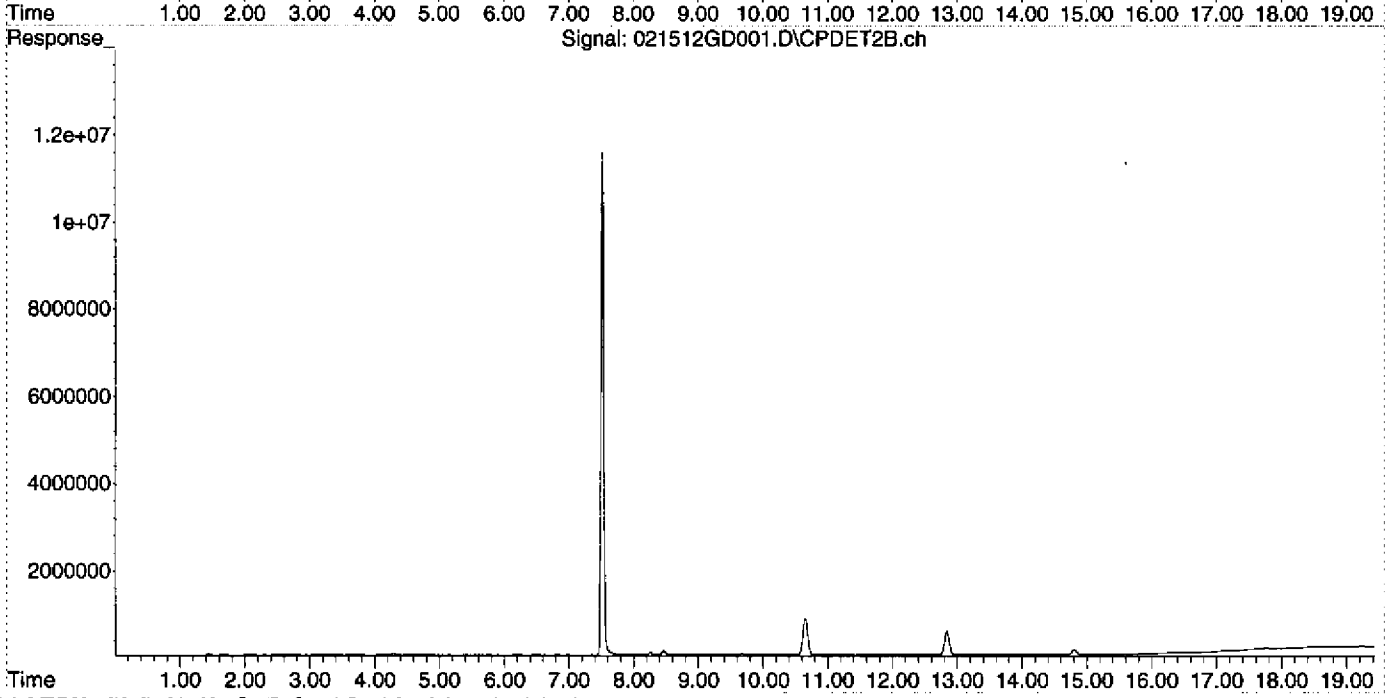
Quantitation Report (Not Reviewed)

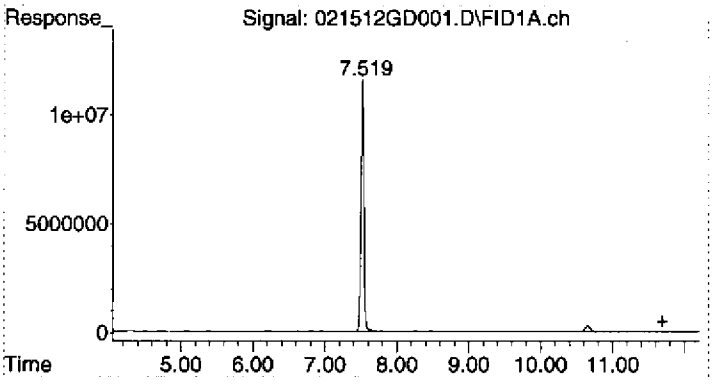
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD001.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 12:30
Operator : Ex.4-CBI
Sample : 2020051-IBL1
Misc : 2A24003, IB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 13:08:42 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 19152440
Conc: 8.60 ug/L

Evaluate Continuing Calibration Report

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD002.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 12:59
Operator : Ex. 4 - CBI
Sample : 2020051-CCV1
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 13:19:59 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.03min
Max. RRF Dev : 15% Max. Rel. Area : 130%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	HRM Gasoline (TPH) #1	2.226	2.138 E6	4.0	91	0.00
2	S TFT #1	2.404	2.734 E6	-13.7	114	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD002.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 12:59
Operator : Ex. 4 - CBI
Sample : 2020051-CCV1
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 13:19:51 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.526	341771691	142.166 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 113.73%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1069122336	480.187 ug/L

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

$\frac{341771691}{2404000} = 142.168$

114%

Ex. 4 - CBI 16.12

012412TPH_GAS.M Wed Feb 15 13:19:52 2012 Page: 1

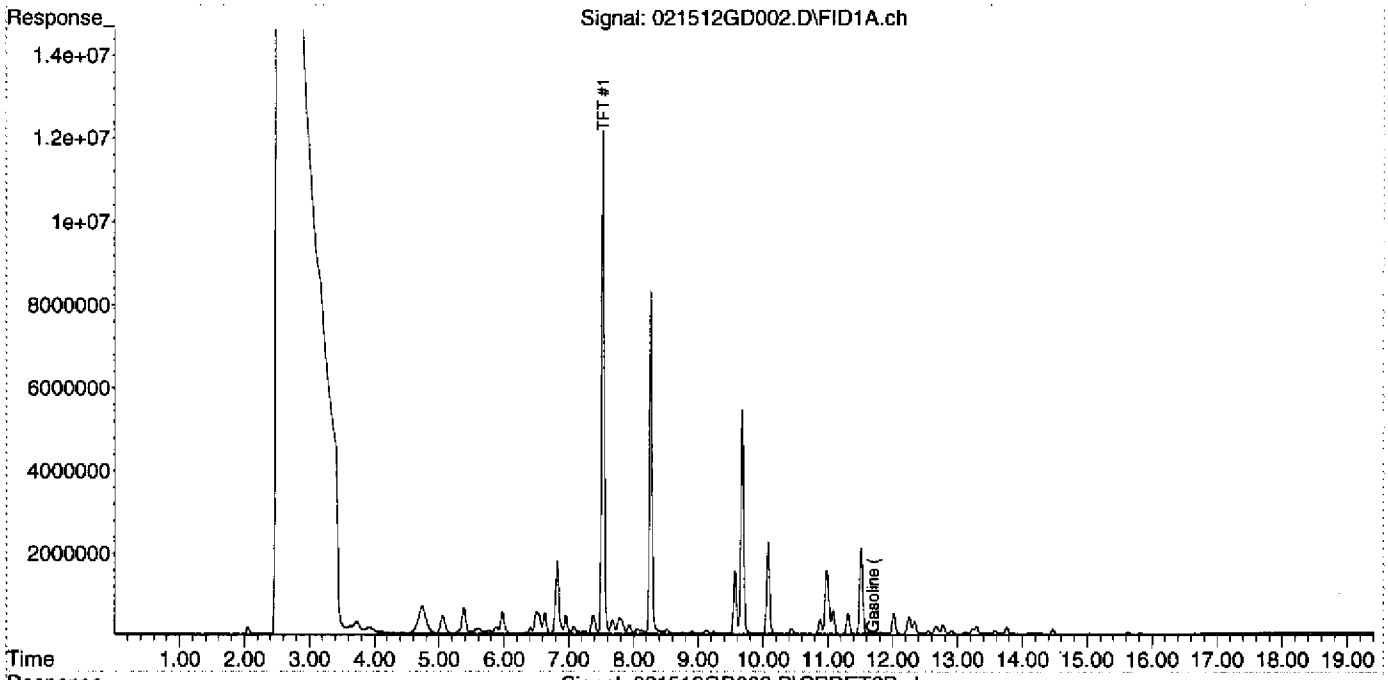
: 00093

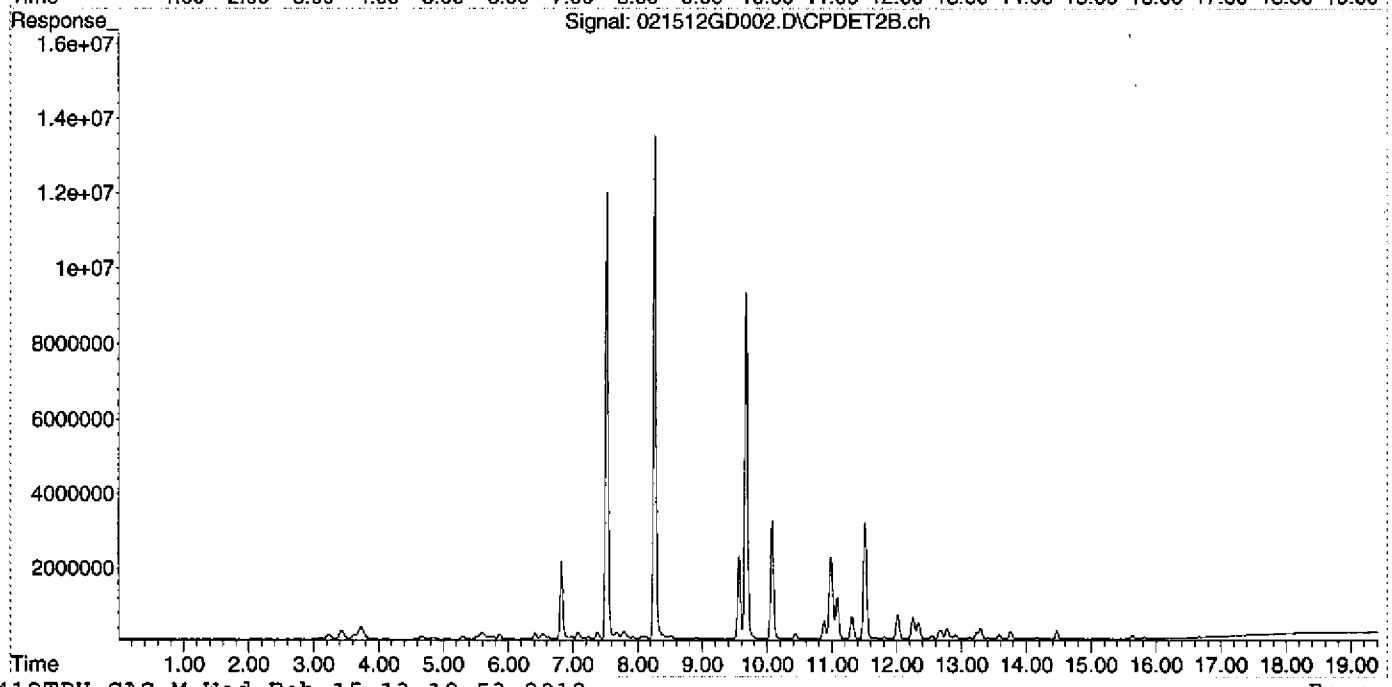
Quantitation Report (Not Reviewed)

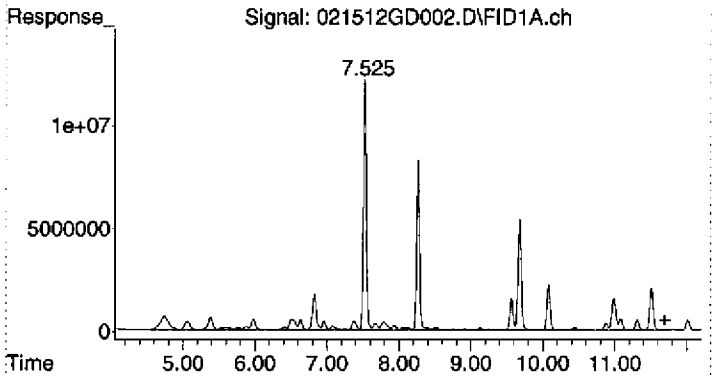
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD002.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 12:59
Operator : Ex. 4 - CBI
Sample : 2020051-CCV1
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 13:19:51 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1069122336
Conc: 480.19 ug/L

Data File Name 021512GD003.D
Operato Ex. 4 - CBI
Sample Name 2020051-LCV1
Date Acquired
Instrument Name GC-FID-PID

#	Name	Units	SPIKE	Amount	QC	LIMIT	RECOVER	STATUS
1)	Gasoline (TPH) #1	ug/L	50	41.66	60	140	83.33%	PASS
2)	TFT #1	ug/L	125	141.87	76	121	113.49%	PASS

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD003.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 13:27
Operator : Ex.4: CBI
Sample : 2020051-LCV1
Misc : 50ug/L, 1J17001, WATER
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:27 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.529	341052734	141.867 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 113.49%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	92761140	41.663 ug/L

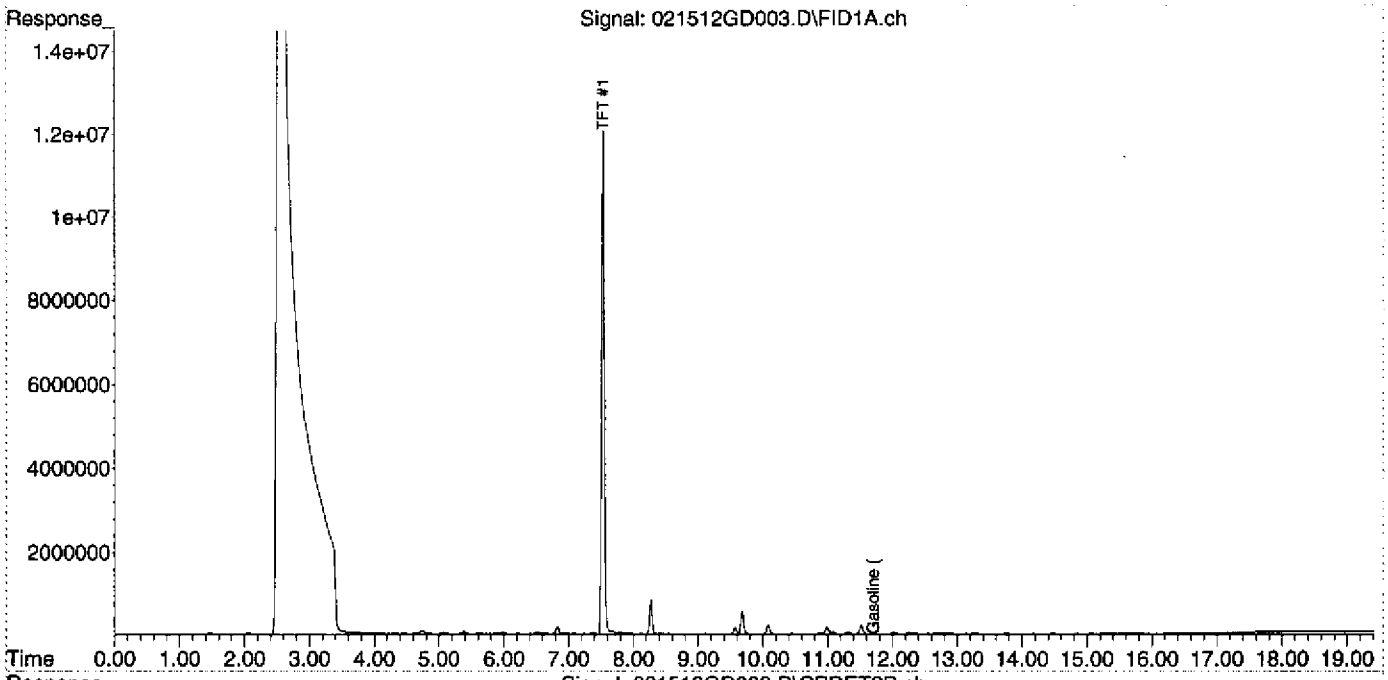
(f)=RT Delta > 1/2 Window (m)=manual int.

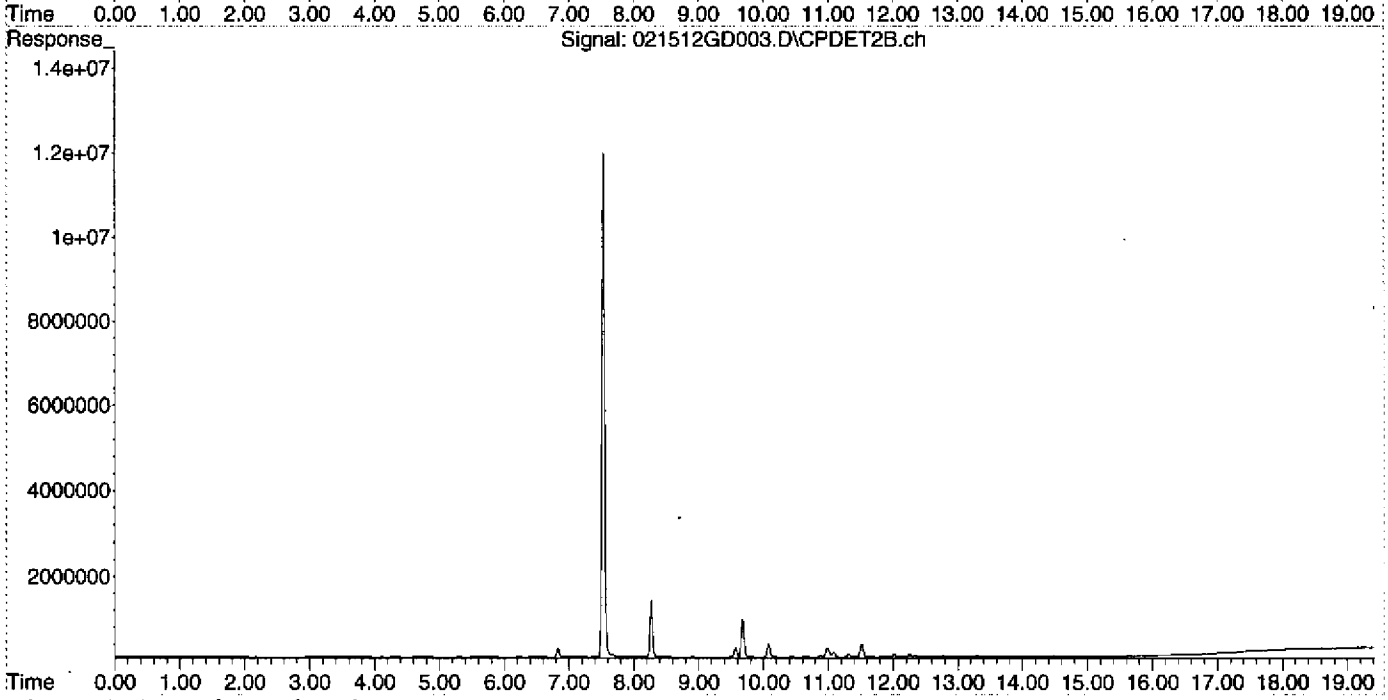
Quantitation Report (Not Reviewed)

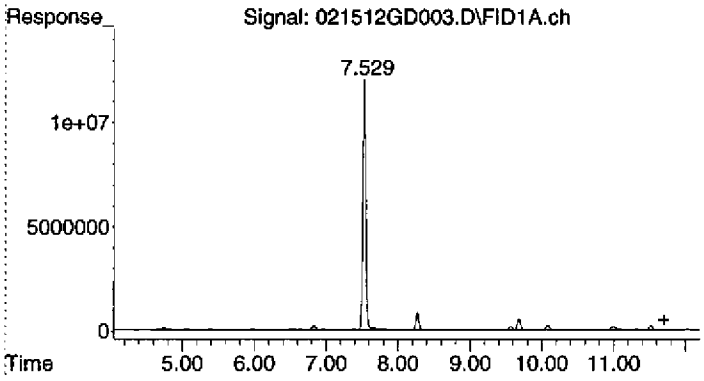
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD003.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 13:27
Operator : Ex. 4 - CBI
Sample : 2020051-LCV1
Misc : 50ug/L, 1J17001, WATER
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:27 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 92761140
Conc: 41.66 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD004.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 13:56
Operator : Ex.4-CBI
Sample : B2B0075-BLK1
Misc : BLANK, WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:32 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.530	336793983	140.095 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 112.08%			
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

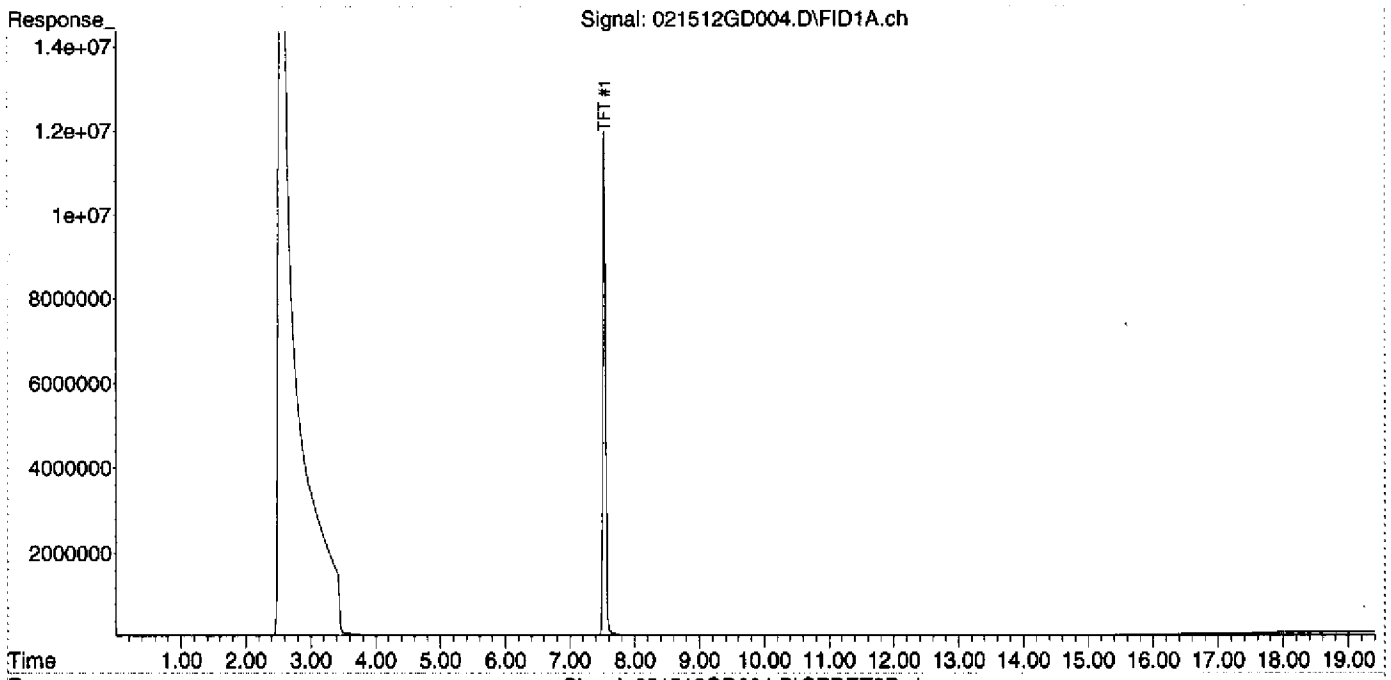
(f)=RT Delta > 1/2 Window (m)=manual int.

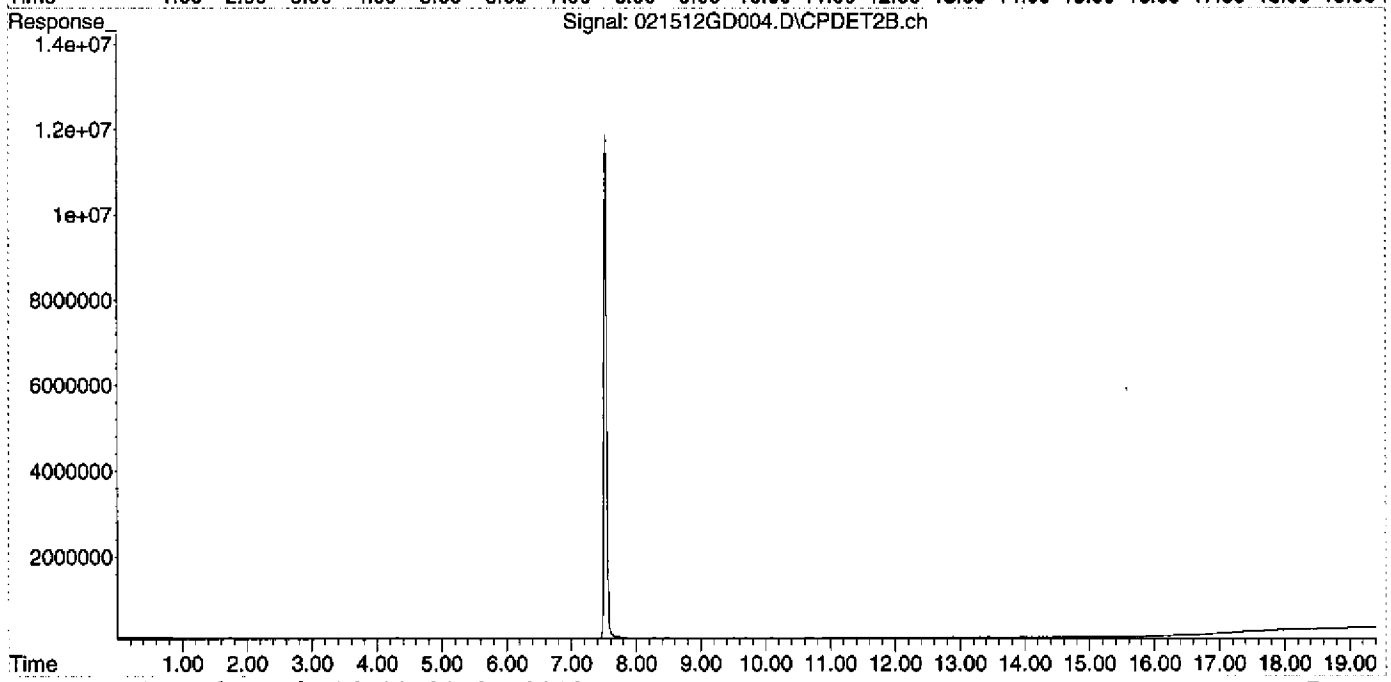
Quantitation Report (Not Reviewed)

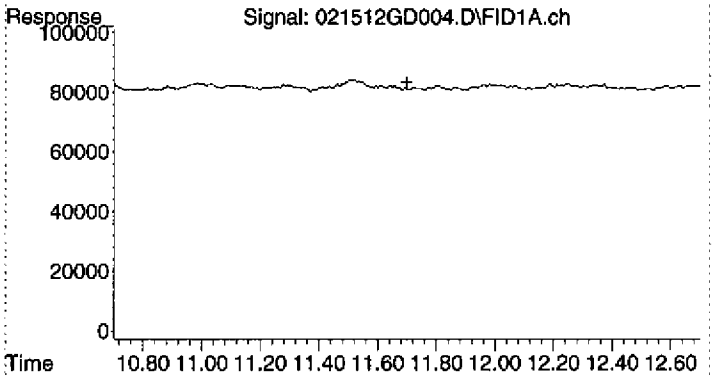
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD004.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 13:56
Operator : Ex. 4 - CBI
Sample : B2B0075-BLK1
Misc : BLANK, WATER
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:32 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Operator Ex. 4 - CBI
Sample Name B2B0075-BS1
Instrument Name GC-FID-PID

#	Name	Units	SPIKE	Amount	QC	LIMIT	RECOVER	STATUS
1)	Gasoline (TPH) #1	ug/L	500	481.74	75	114	96%	PASS
2)	TFT #1	ug/L	125	143.30	76	121	115%	PASS

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD005.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 14:24
Operator : Ex. 4 - CBI
Sample : B2B0075-BS1
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:37 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.531	344505035	143.303 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 114.64%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1072578239	481.739 ug/L

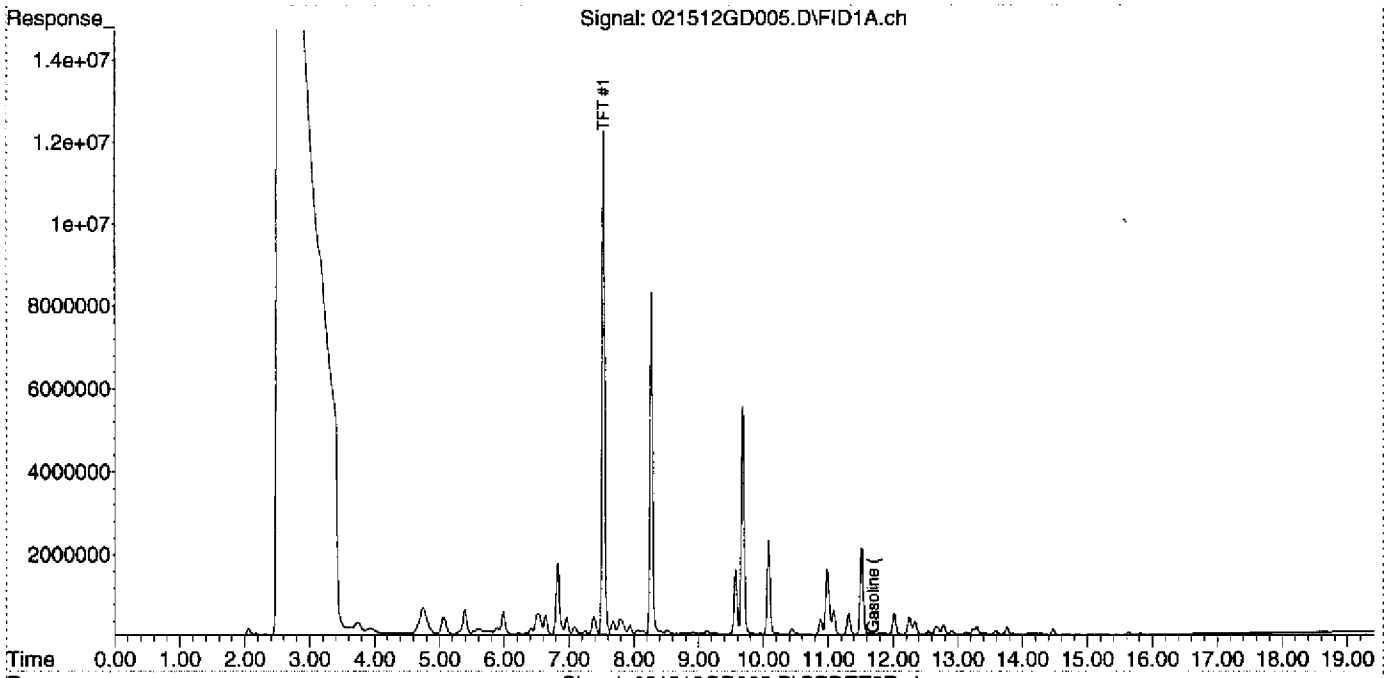
(f)=RT Delta > 1/2 Window (m)=manual int.

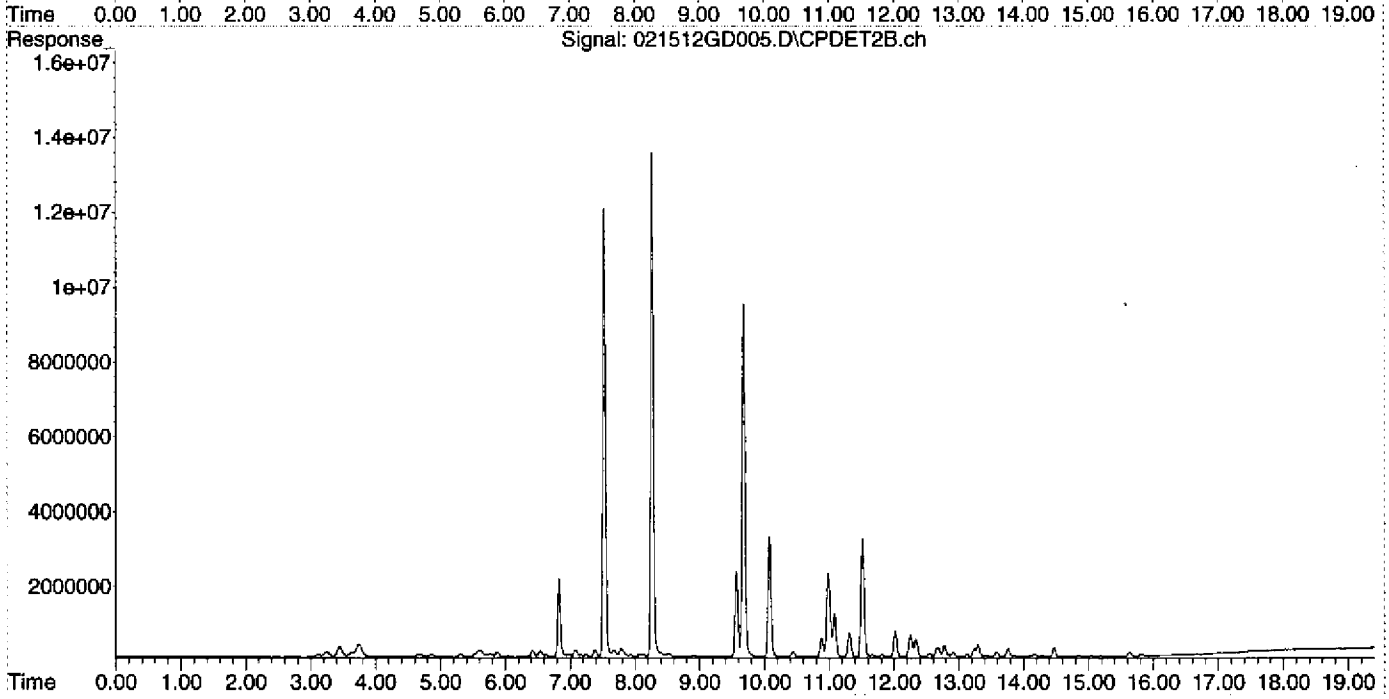
Quantitation Report (Not Reviewed)

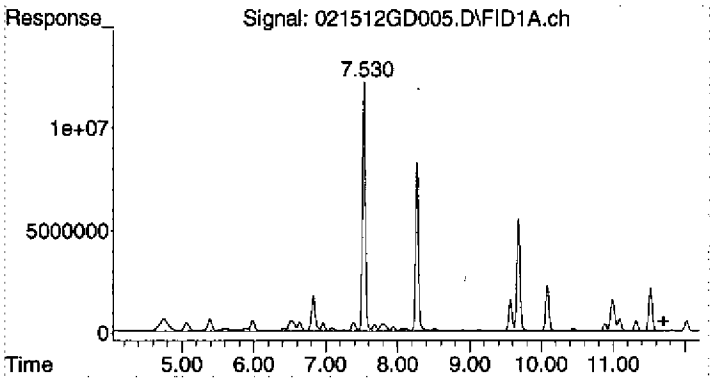
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD005.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 14:24
Operator : Ex.4-CBI
Sample : B2B0075-BS1
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:37 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1072578239
Conc: 481.74 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD006.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 14:53
Operator : Ex. 4 - CBI
Sample : 1202038-01
Misc : HW11-P,C, WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:42 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.532	329052014	136.875 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 109.50%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1015895	0.456 ug/L

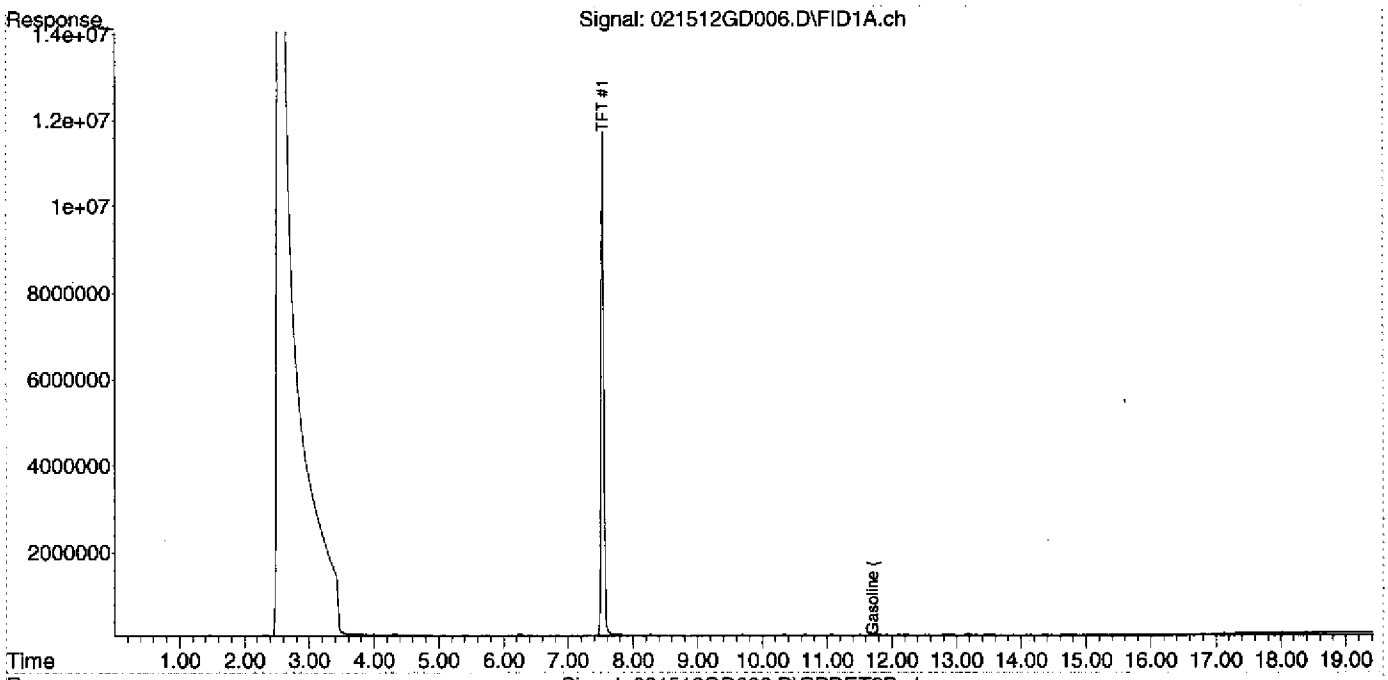
(f)=RT Delta > 1/2 Window (m)=manual int.

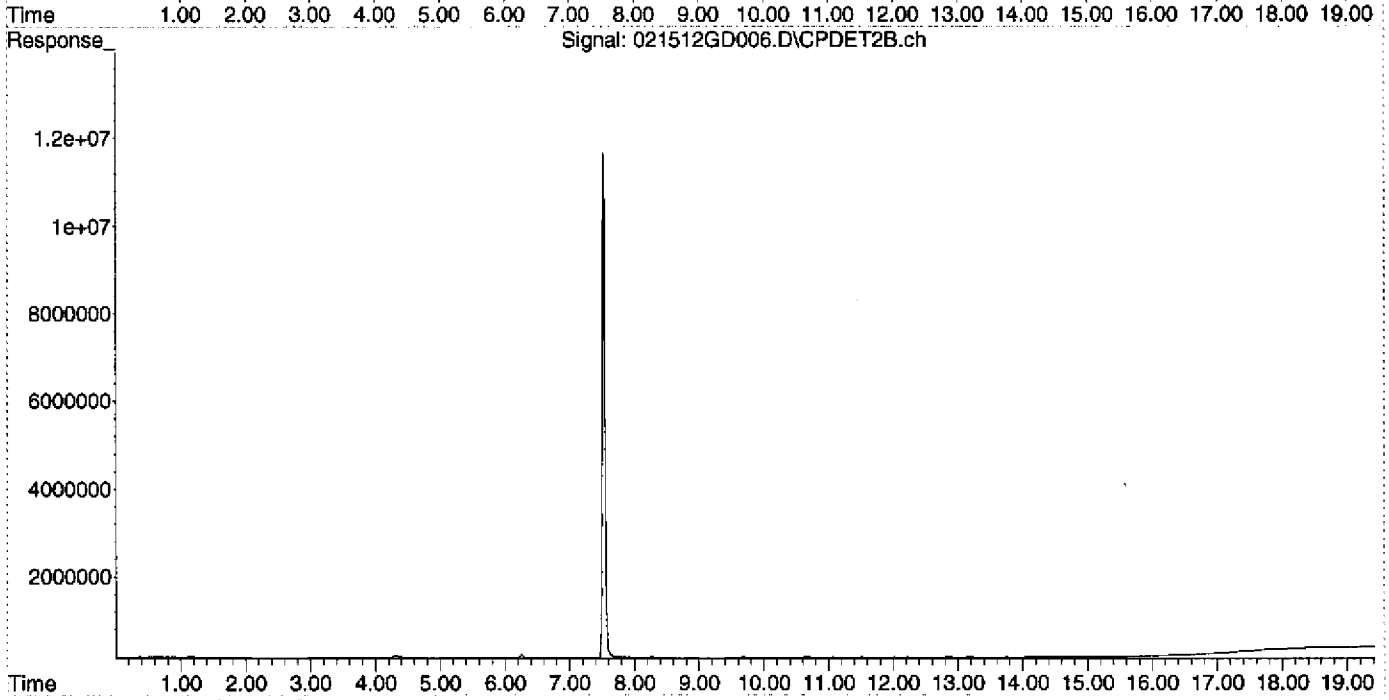
Quantitation Report (Not Reviewed)

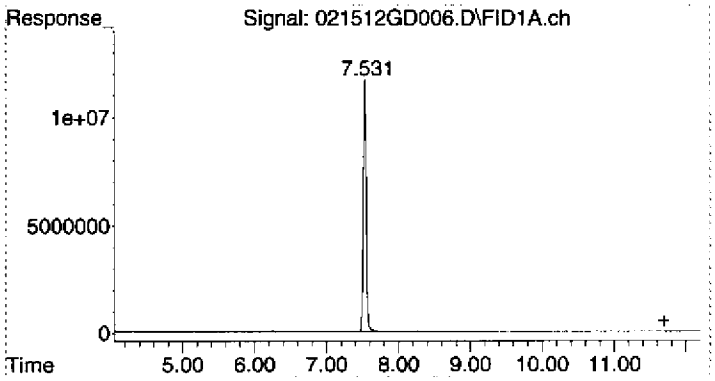
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD006.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 14:53
Operator : Ex.4-CBI
Sample : 1202038-01
Misc : HW11-P,C, WATER
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:42 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1015895
Conc:	0.46 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD007.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 15:21
Operator : Ex. 4 - CBI
Sample : 1202038-02
Misc : HW53,C, WATER
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:47 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.532	327381909	136.180 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 108.94%			
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

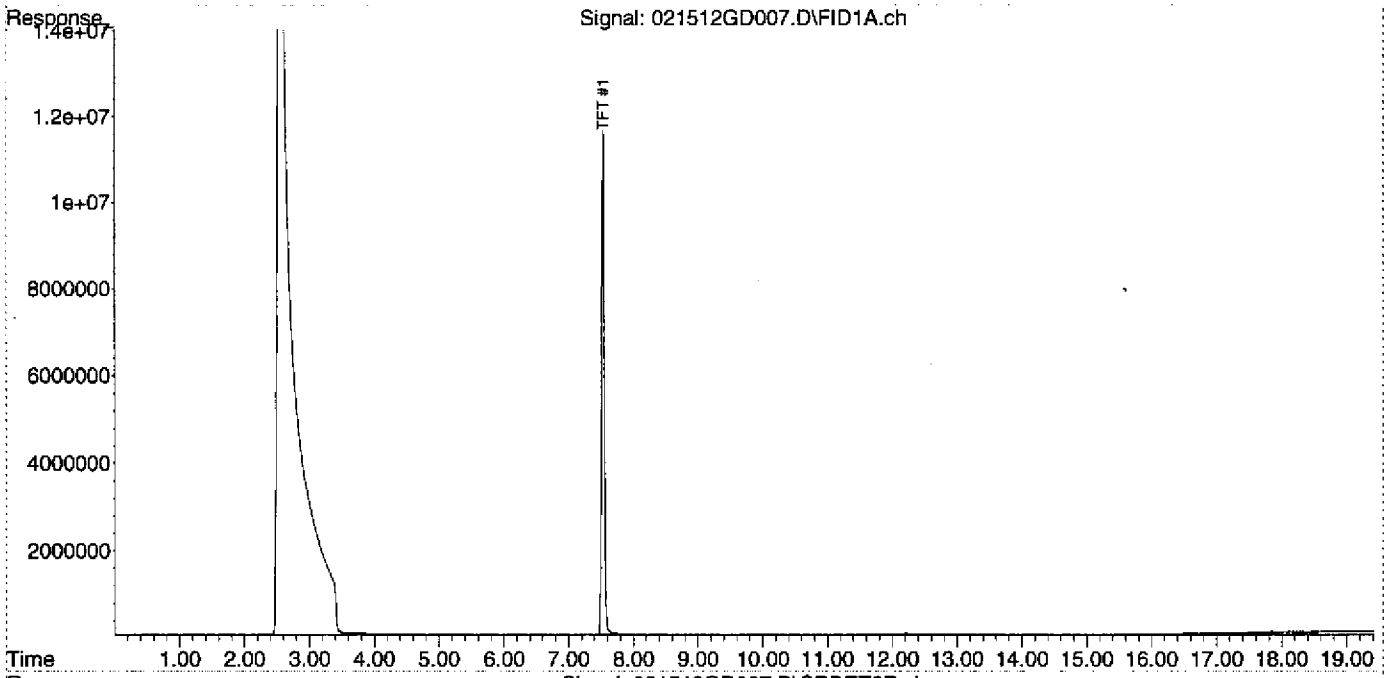
(f)=RT Delta > 1/2 Window (m)=manual int.

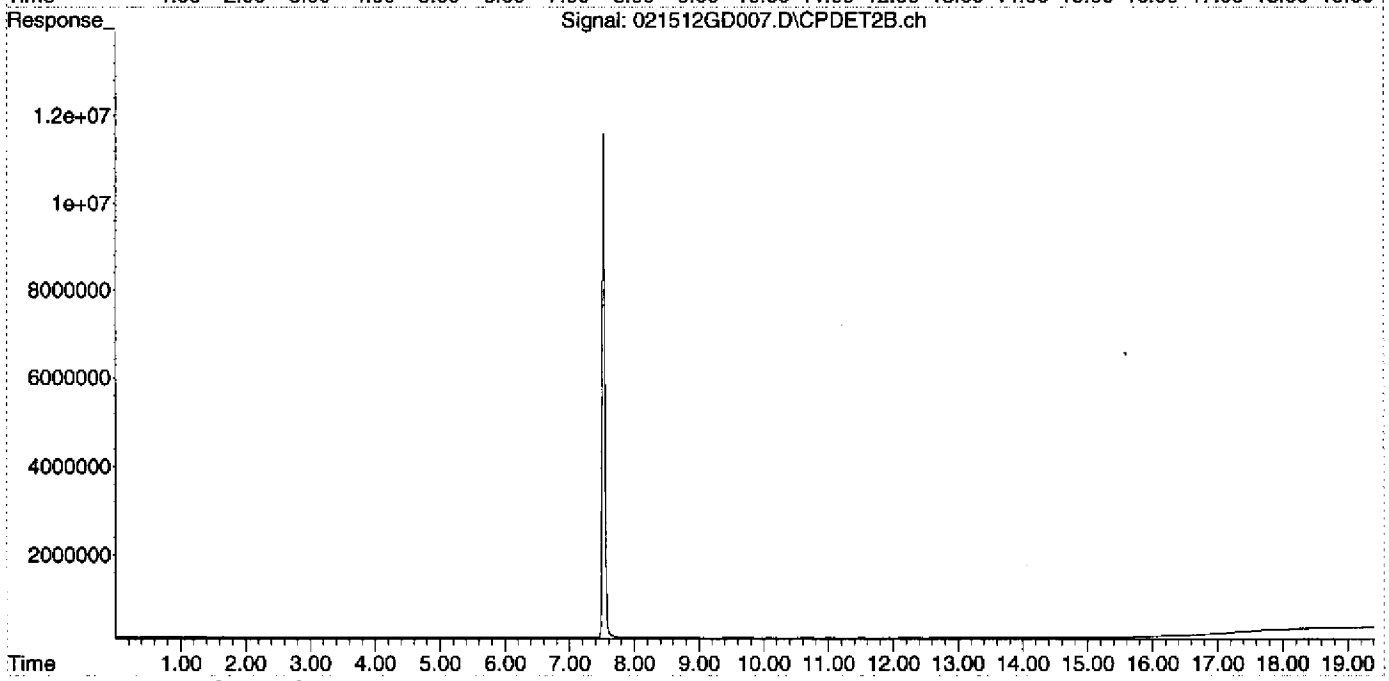
Quantitation Report (Not Reviewed)

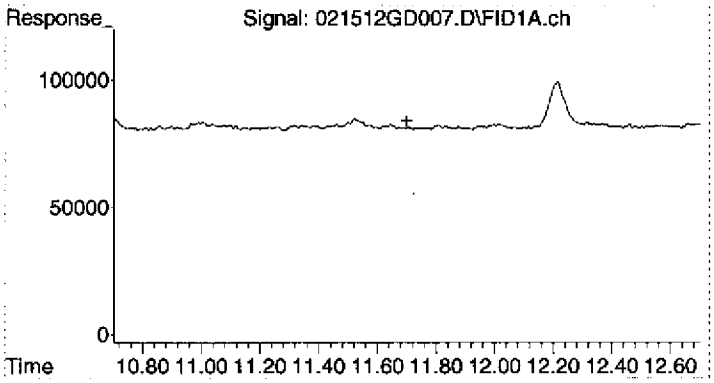
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD007.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 15:21
Operator : Ex. 4 - CBI
Sample : I202038-02
Misc : HW53,C, WATER
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:47 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD008.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 15:50
Operator : Ex 4 CBI
Sample : 1202038-03
Misc : HW53-P,D, WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:52 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	336323048	139.900 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	111.92%
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

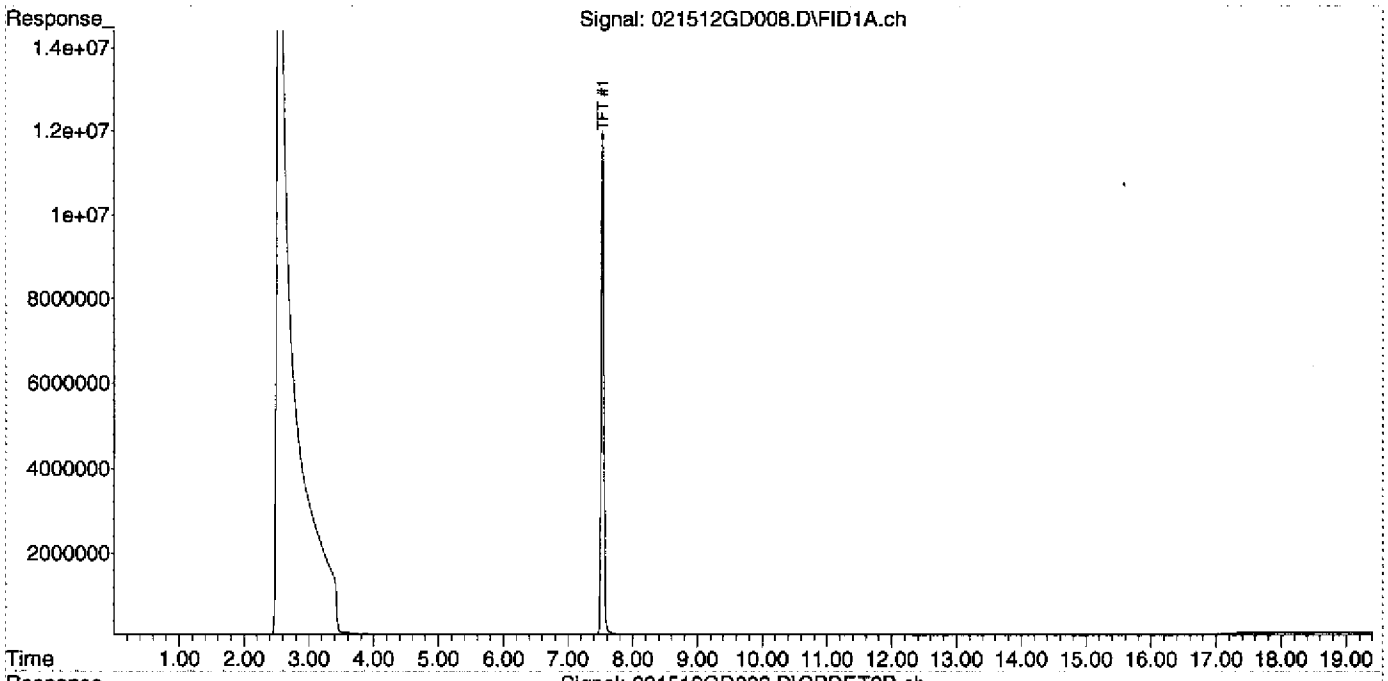
(f)=RT Delta > 1/2 Window (m)=manual int.

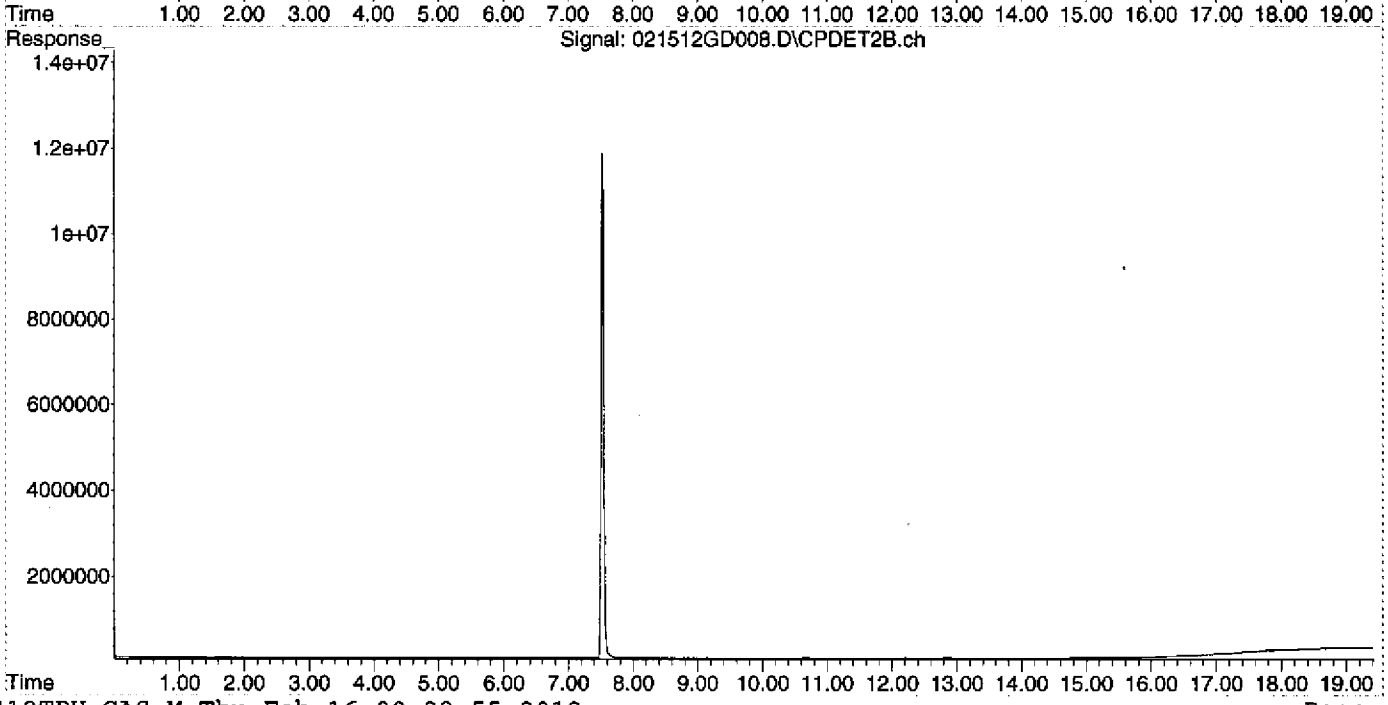
Quantitation Report (Not Reviewed)

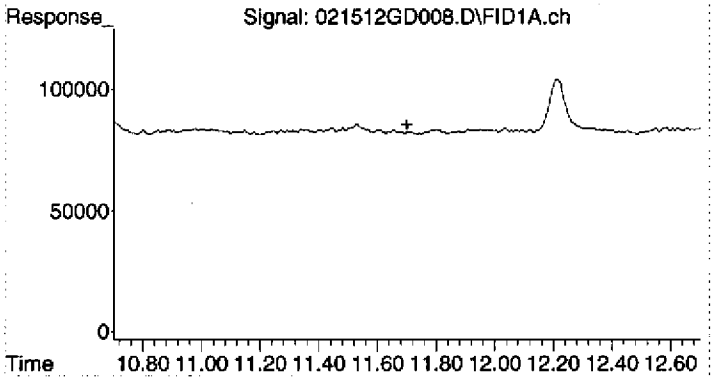
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD008.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 15:50
Operator : Ex.4-CBI
Sample : 1202038-03
Misc : HW53-P,D, WATER
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:52 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 0
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD009.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 16:18
Operator : Ex.4-CBI
Sample : 1202038-04
Misc : TB42,A, WATER
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:58 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.531	337582193	140.423 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 112.34%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	2209194	0.992 ug/L

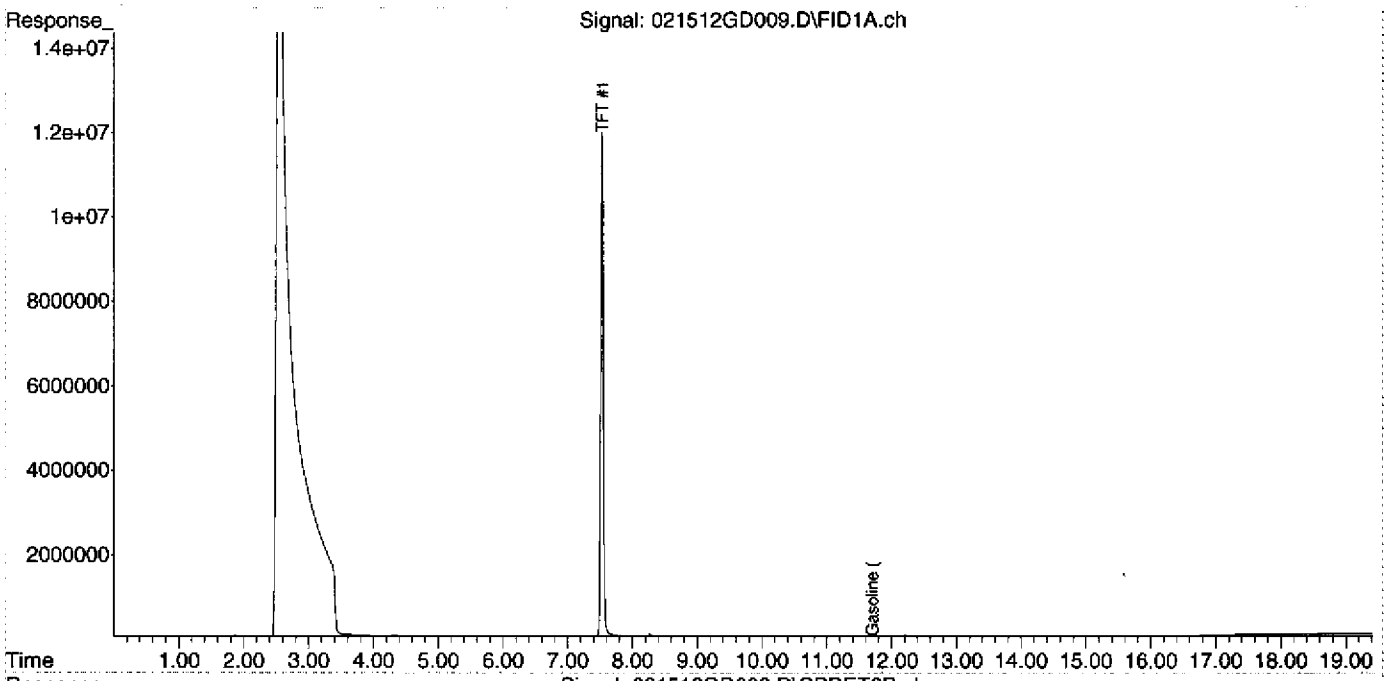
(f)=RT Delta > 1/2 Window (m)=manual int.

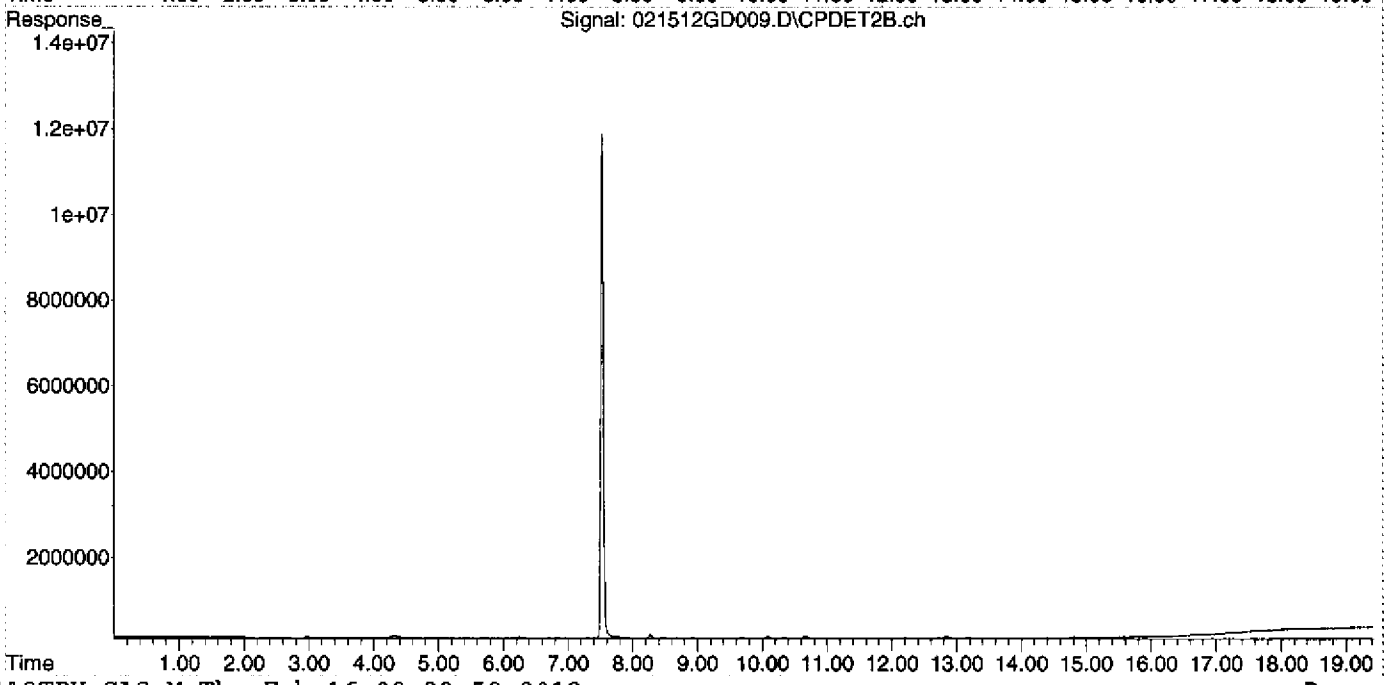
Quantitation Report (Not Reviewed)

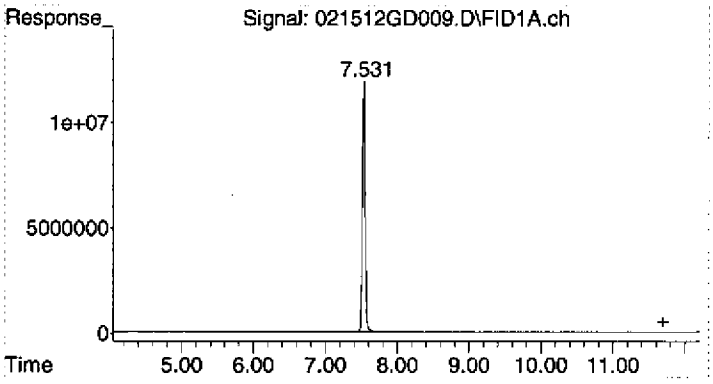
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD009.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 16:18
Operator : Ex.4-CBI
Sample : 1202038-04
Misc : TB42,A, WATER
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:22:58 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	2209194
Conc:	0.99 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD010.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 16:46
Operator : Ex.4-CBI
Sample : 1202038-05
Misc : FB17,C, WATER
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:02 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.532	342687111	142.547 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 114.04%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1866230	0.838 ug/L

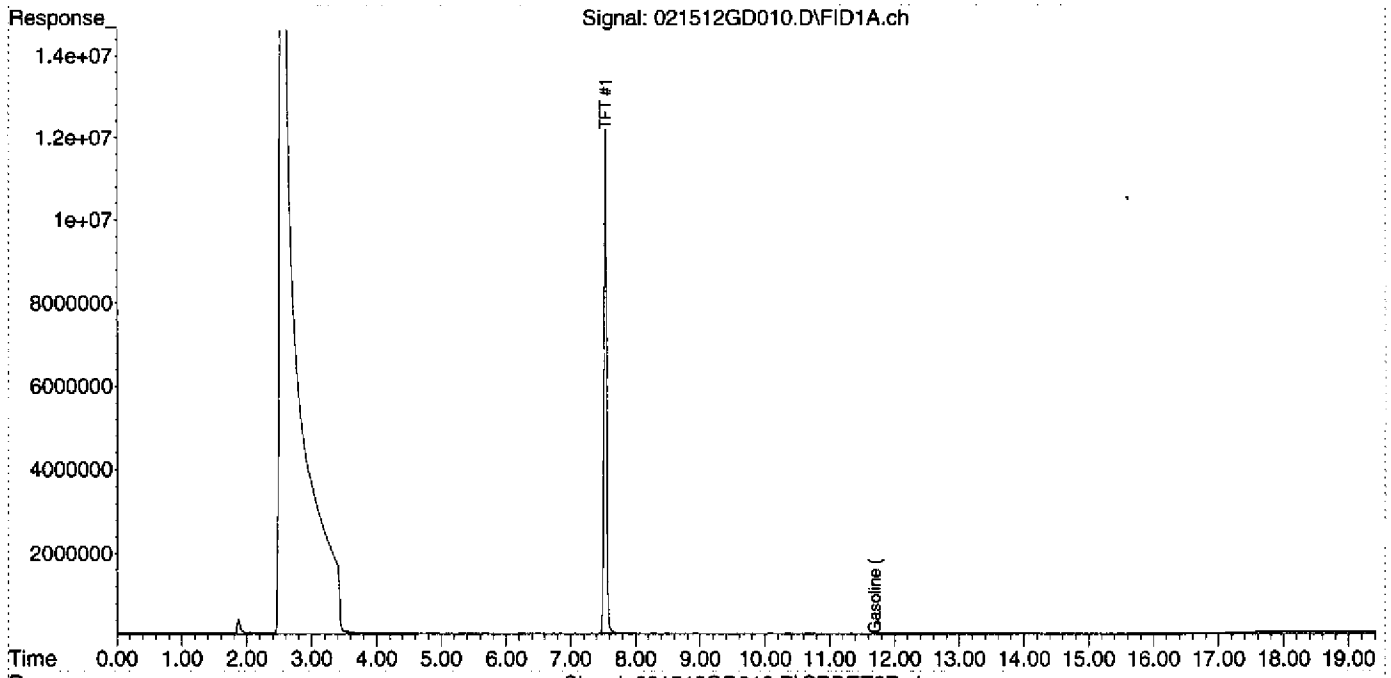
(f)=RT Delta > 1/2 Window (m)=manual int.

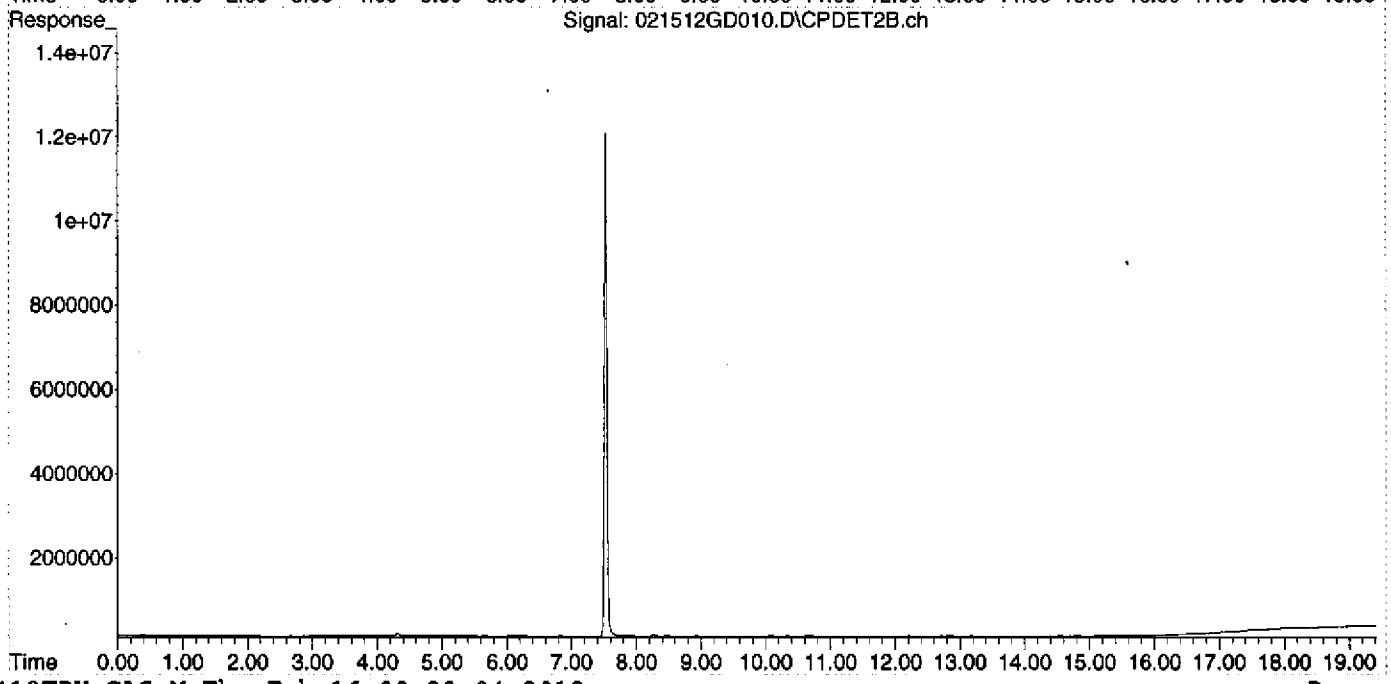
Quantitation Report (Not Reviewed)

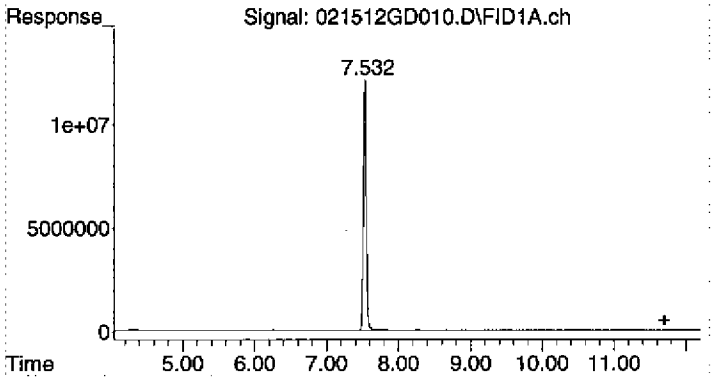
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD010.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 16:46
Operator : Ex. 4 - CBI
Sample : 1202038-05
Misc : FB17,C, WATER
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:02 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1866230
Conc:	0.84 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD011.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 17:14
Operator : Ex. 4 - CBI
Sample : 1202038-06
Misc : HW57-P,C, WATER
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:07 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	342121455	142.312 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	113.85%
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

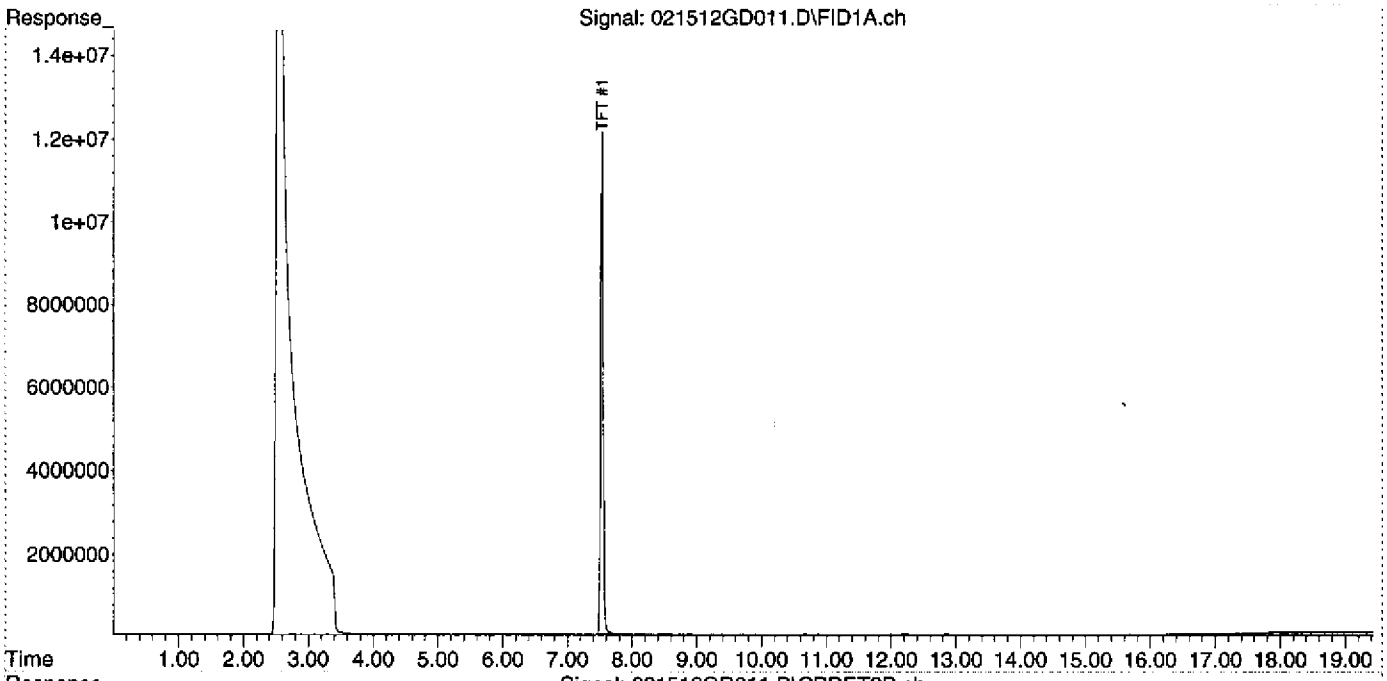
(f)=RT Delta > 1/2 Window (m)=manual int.

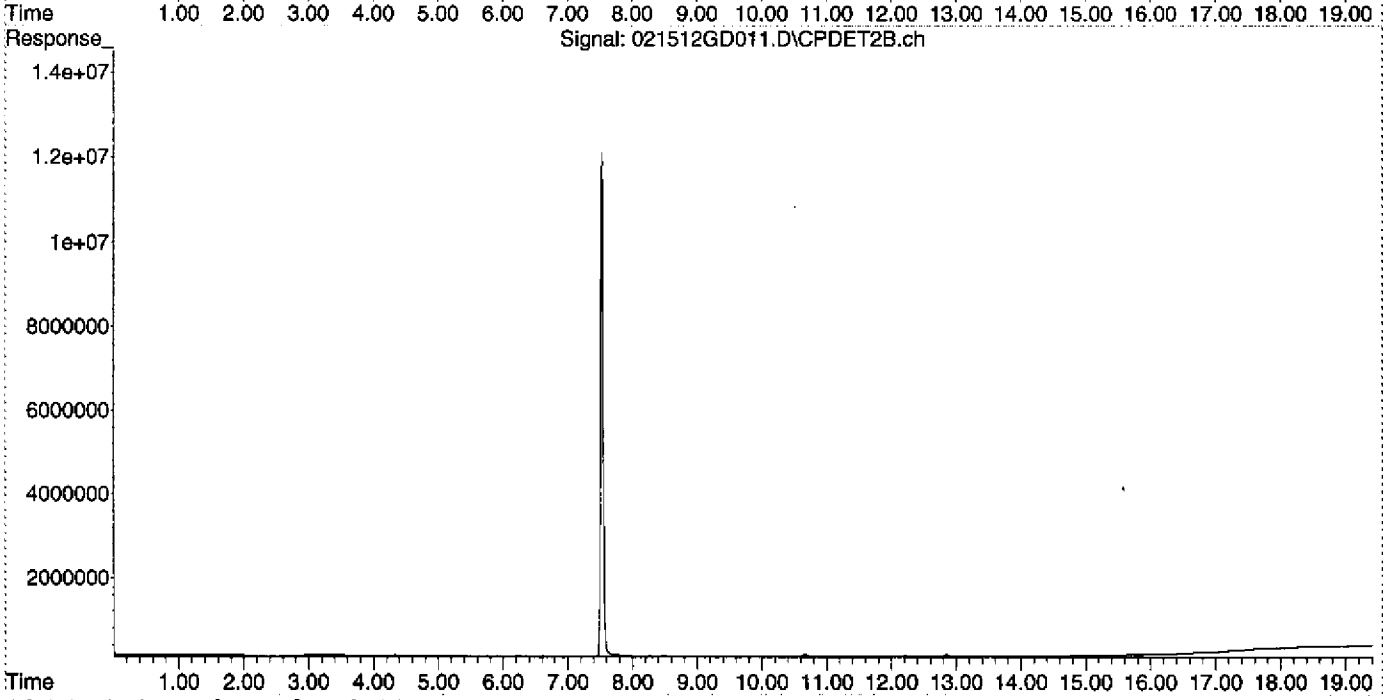
Quantitation Report (Not Reviewed)

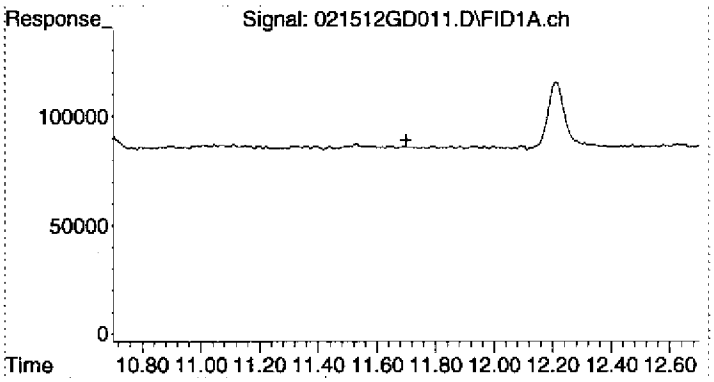
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD011.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 17:14
Operator : Ex.4-CBI
Sample : 1202038-06
Misc : HW57-P,C, WATER
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:07 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD012.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 17:43
Operator : Ex.4-CBI
Sample : 1202038-07
Misc : HW59,C, WATER
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	340002155	141.430 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 113.14%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	416134	0.187 ug/L

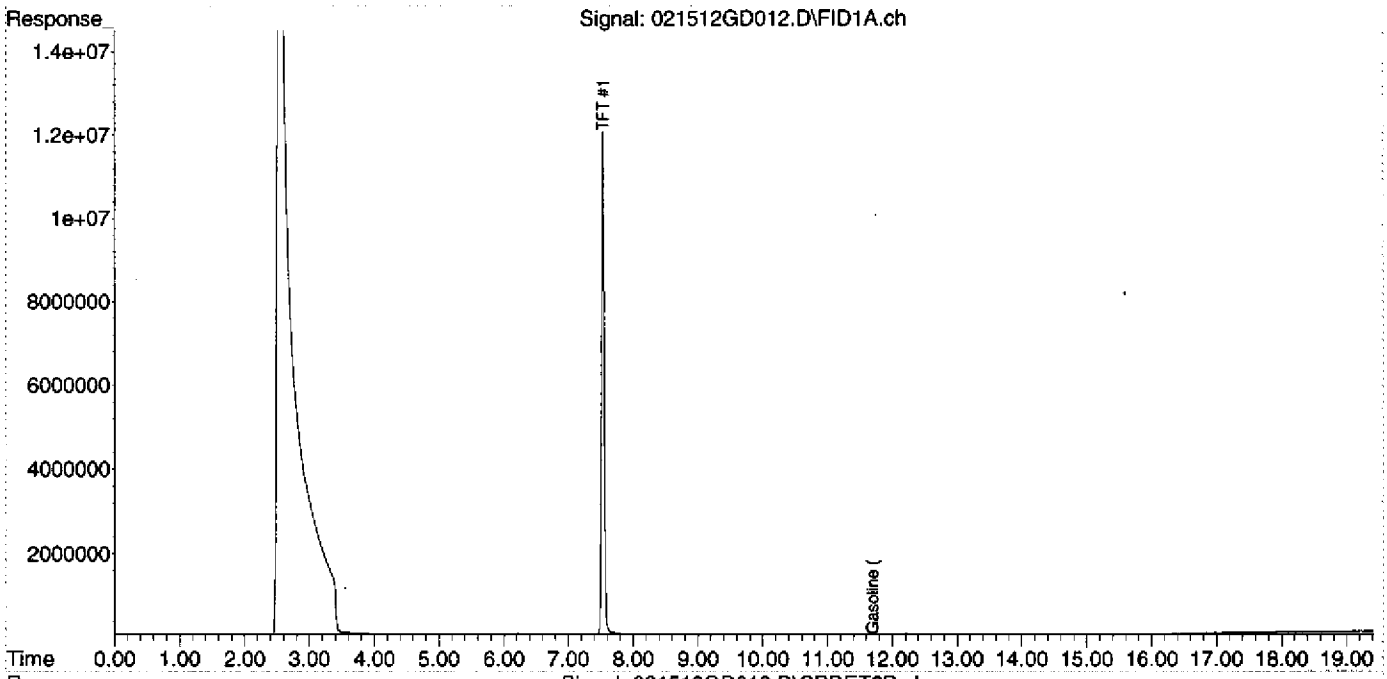
(f)=RT Delta > 1/2 Window (m)=manual int.

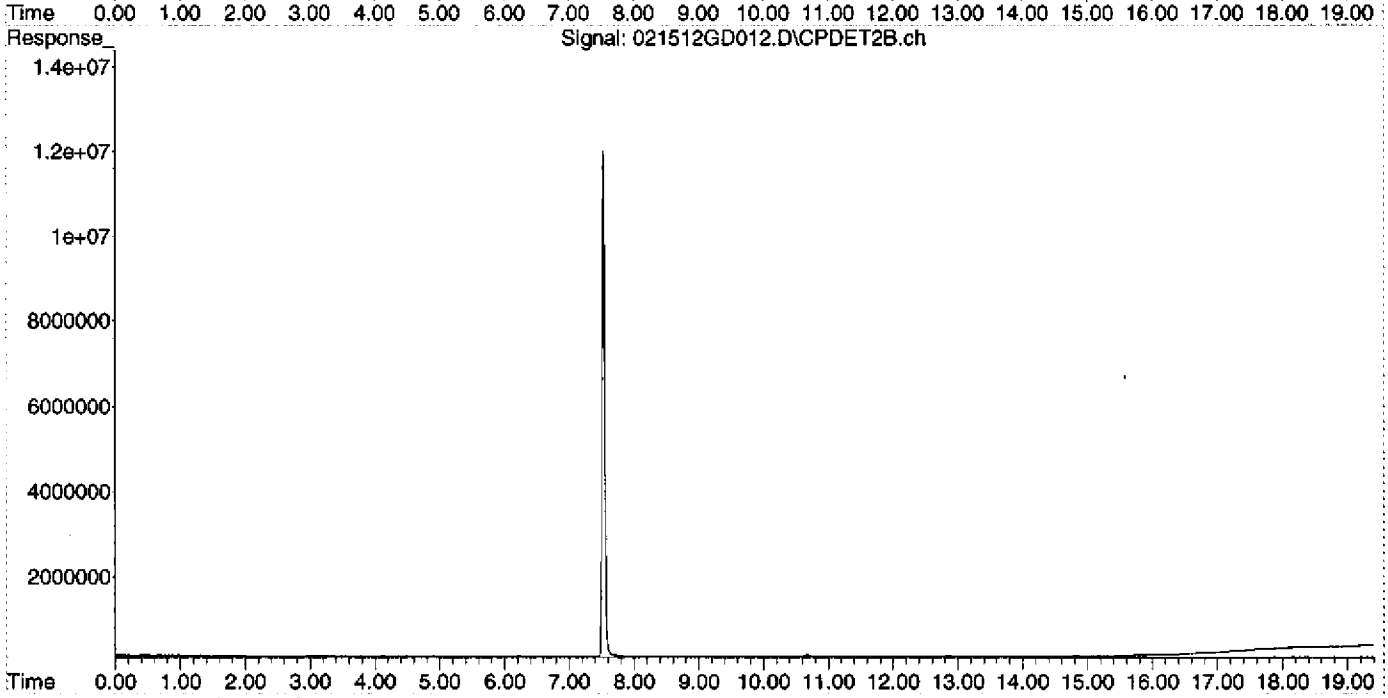
Quantitation Report (Not Reviewed)

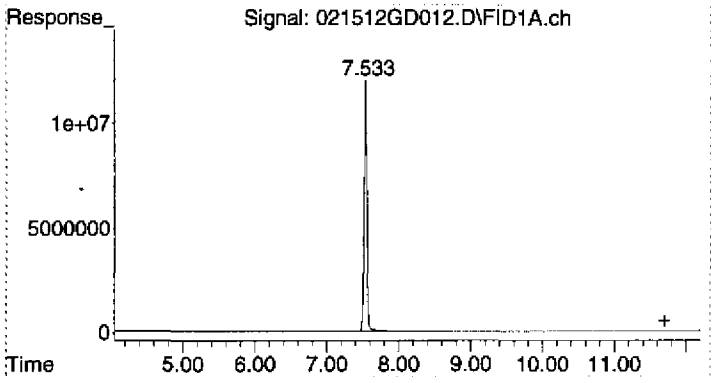
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD012.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 17:43
Operator : Ex. 4 - CBI
Sample : 1202038-07
Misc : HW59,C, WATER
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	416134
Conc:	0.19 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD013.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 18:11
Operator : Ex.4-CBI
Sample : 1202038-08
Misc : TB44,A, WATER
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:17 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	327545510	136.248 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 109.00%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1231483	0.553 ug/L

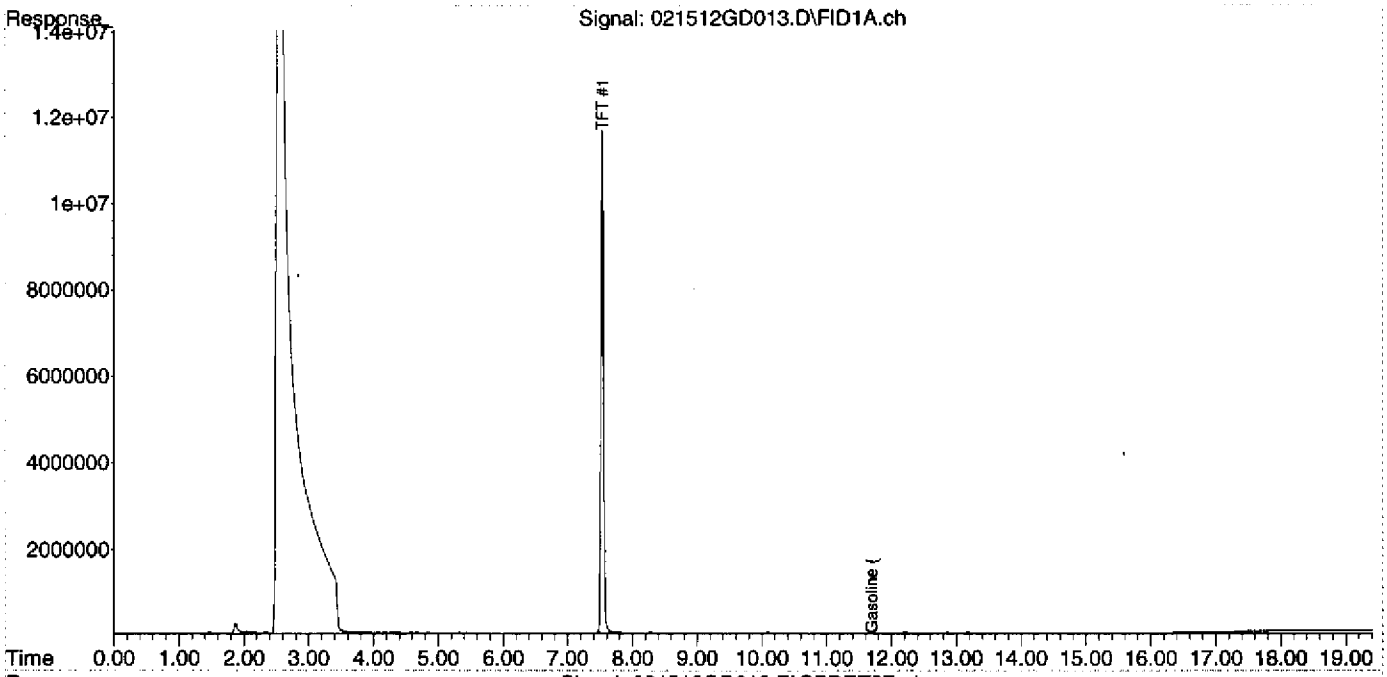
(f)=RT Delta > 1/2 Window (m)=manual int.

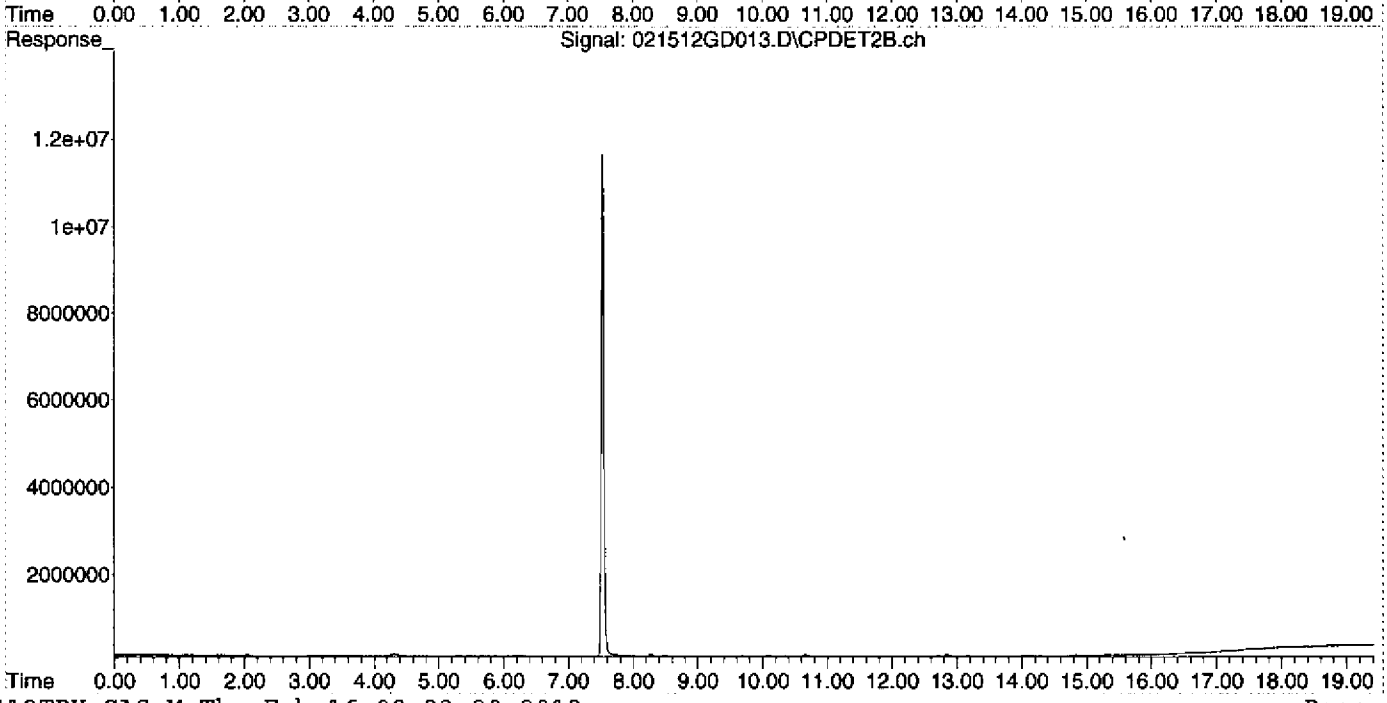
Quantitation Report (Not Reviewed)

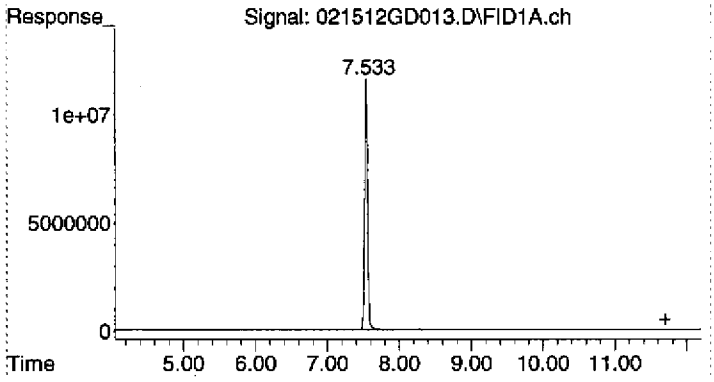
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD013.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 18:11
Operator : [redacted]
Sample : 1202038-08
Misc : TB44,A, WATER
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:17 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1231483
Conc:	0.55 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD014.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 18:40
Operator : Ex.4-CBI
Sample : 1202038-09
Misc : HW11,C, WATER
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:23 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	337326043	140.317 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 112.25%	
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

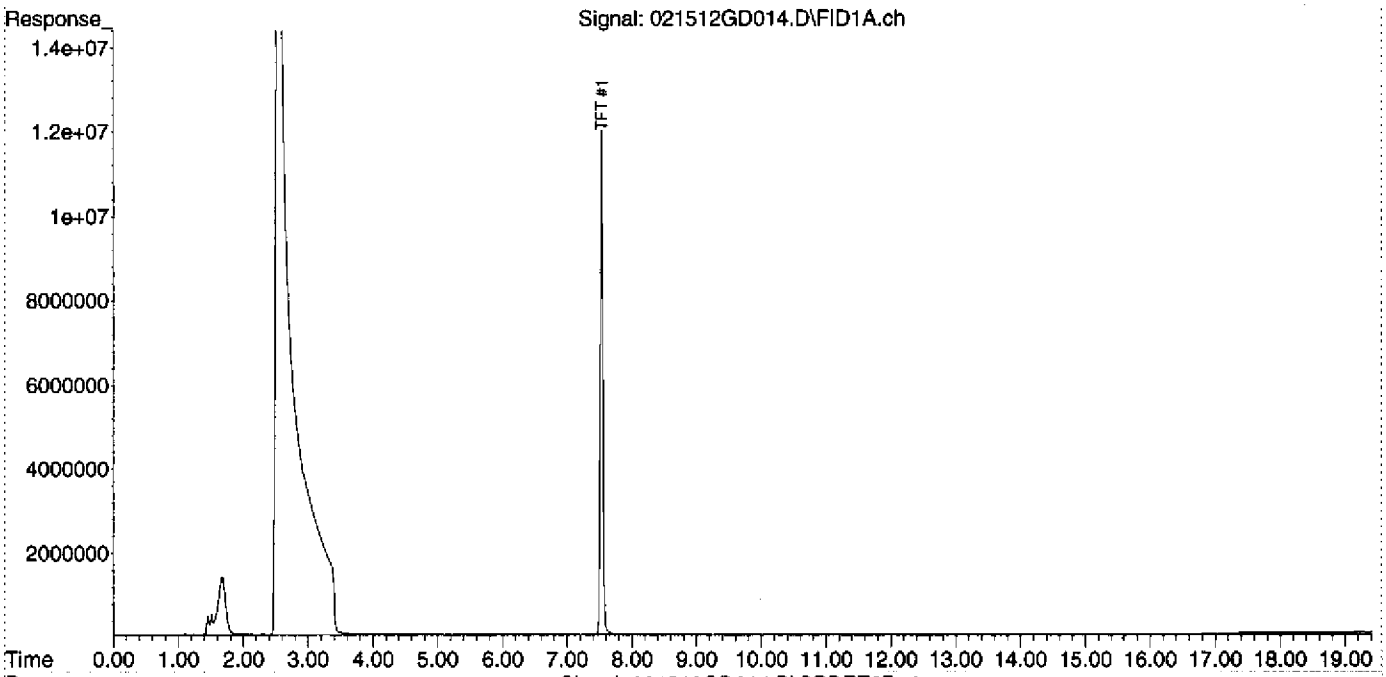
(f)=RT Delta > 1/2 Window (m)=manual int.

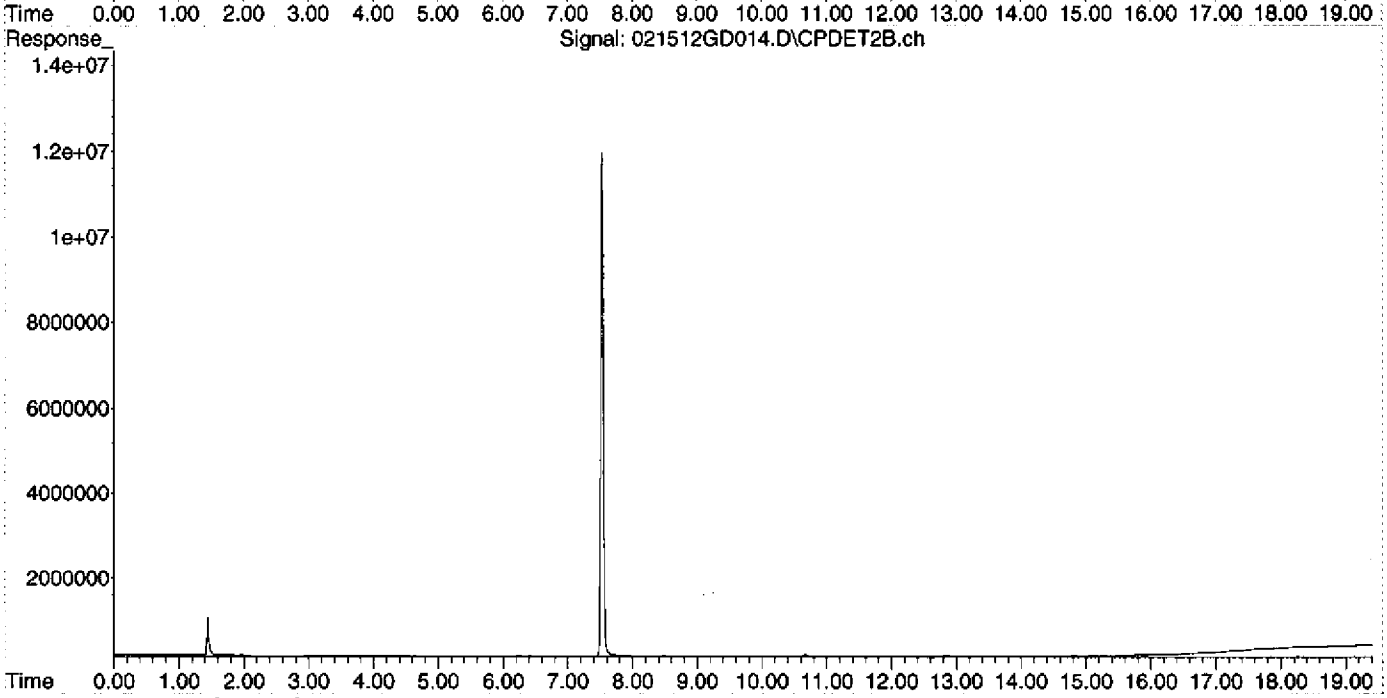
Quantitation Report (Not Reviewed)

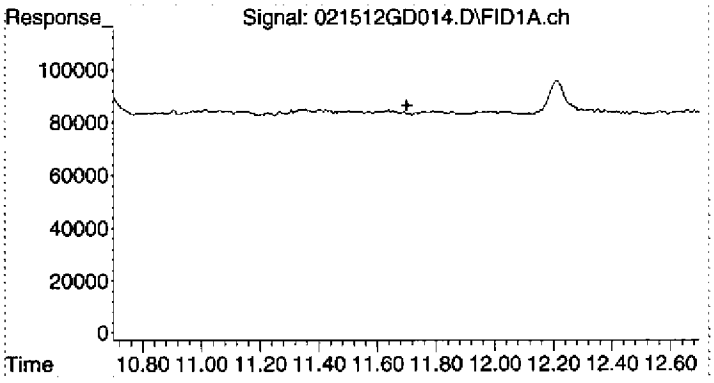
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD014.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 18:40
Operator : Ex.4-CBI
Sample : 1202038-09
Misc : HW11,C, WATER
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:23 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD015.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 19:08
Operator : Ex. 4 - CBI
Sample : 1202038-10
Misc : TB43,A, WATER
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:28 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	341120482	141.895 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 113.52%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1051252	0.472 ug/L

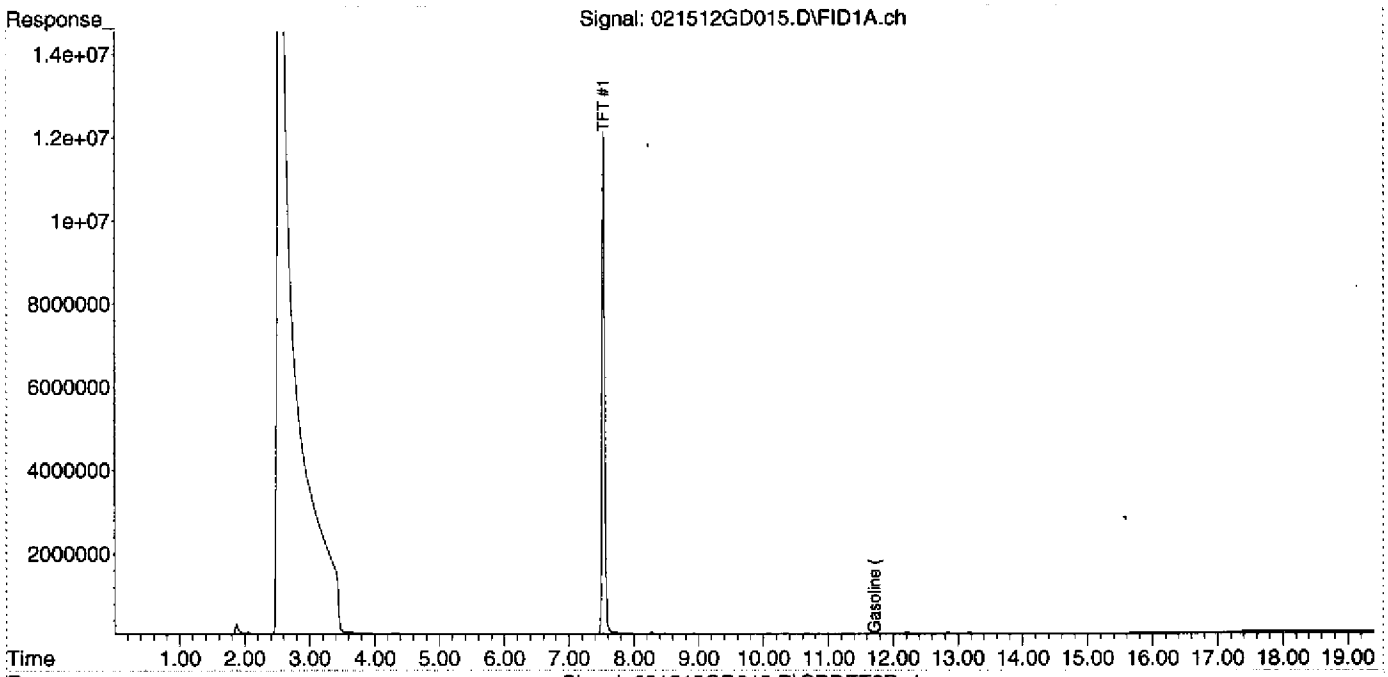
(f)=RT Delta > 1/2 Window (m)=manual int.

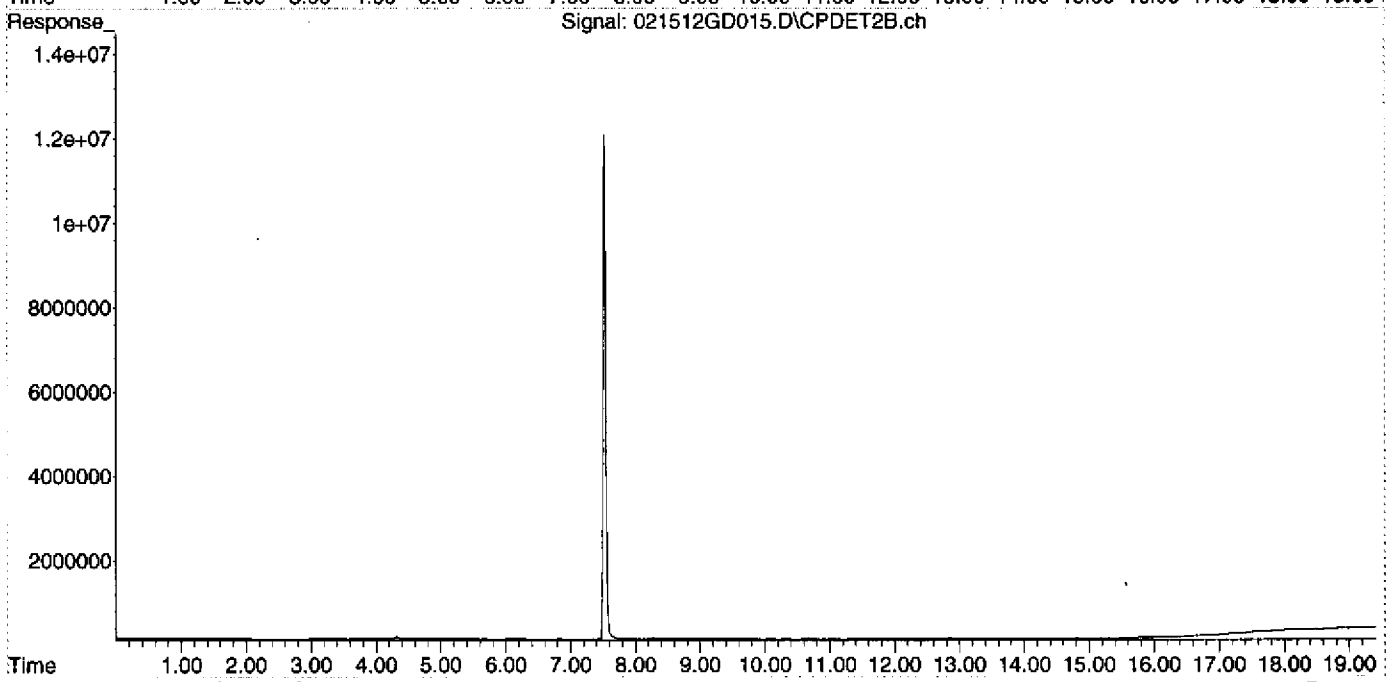
Quantitation Report (Not Reviewed)

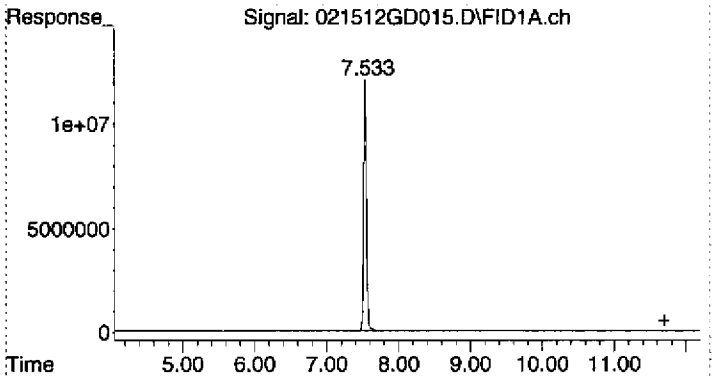
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD015.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 19:08
Operator : Ex. 4 - CBI
Sample : I202038-10
Misc : TB43,A, WATER
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:28 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1051252
Conc:	0.47 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD016.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 19:37
Operator : Ex. 4 - CBI
Sample : I2U2038-12
Misc : HW27,D, WATER
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:33 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	333100420	138.559 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery = 110.85%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	713371	0.320 ug/L

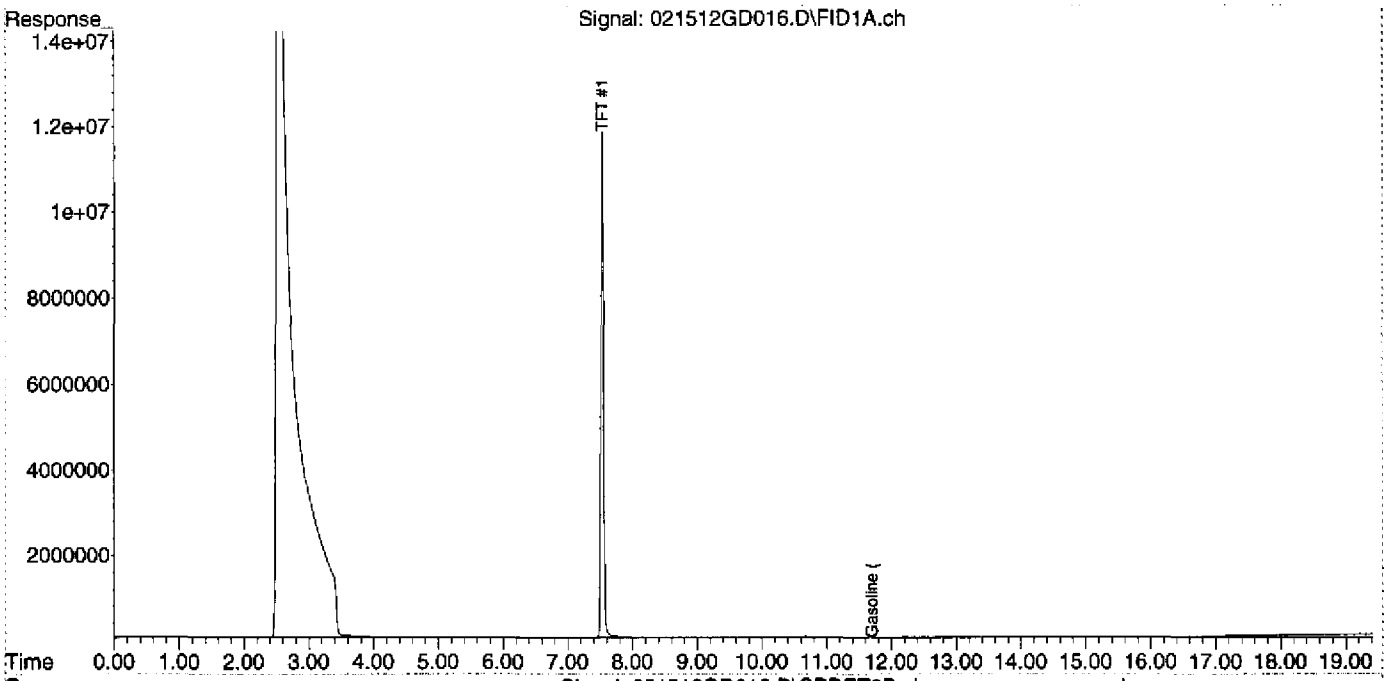
(f)=RT Delta > 1/2 Window (m)=manual int.

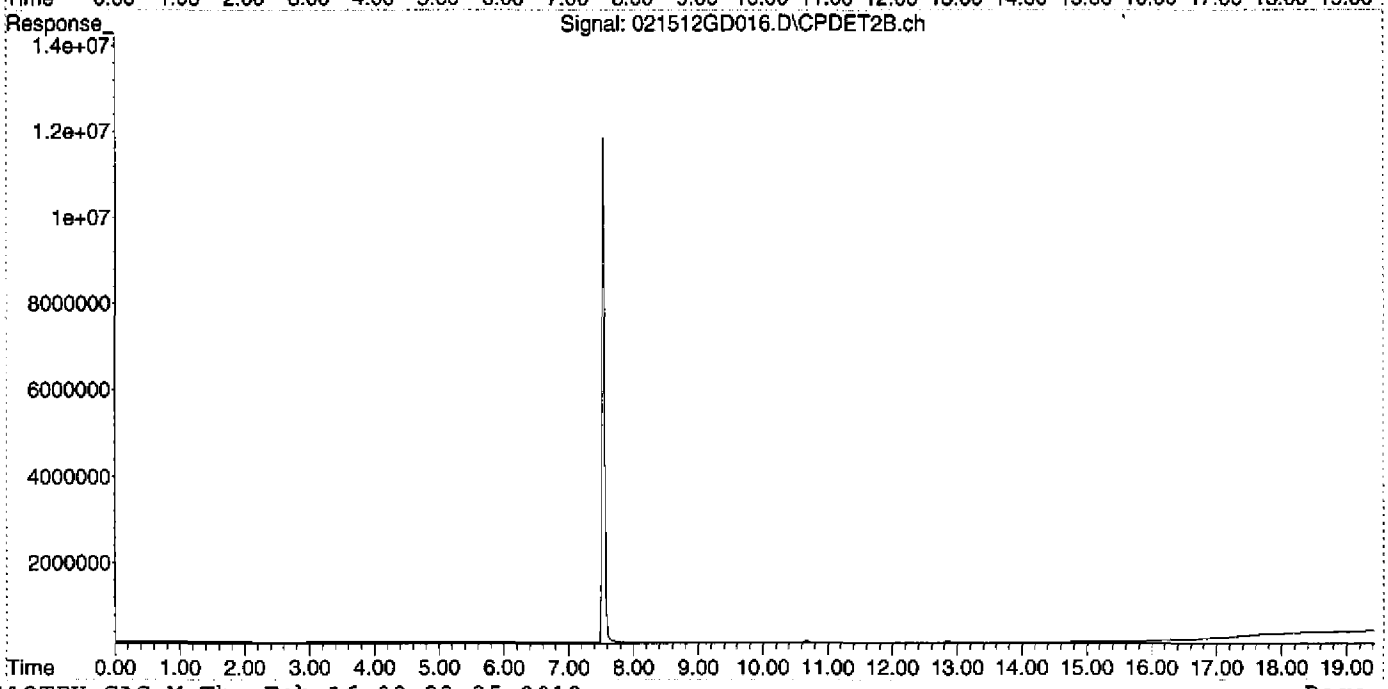
Quantitation Report (Not Reviewed)

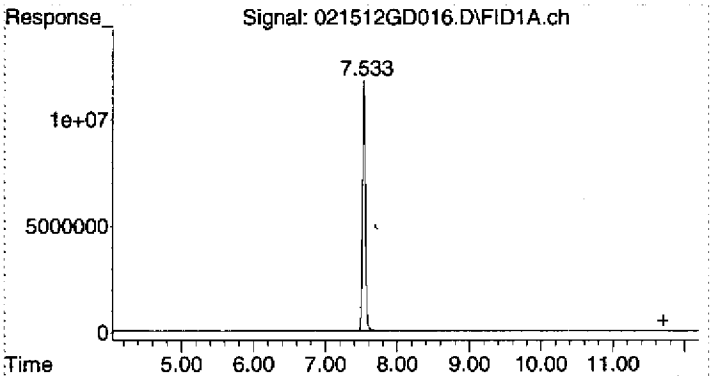
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD016.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 19:37
Operator : Ex. 4 - CBI
Sample : 1202038-12
Misc : HW27,D, WATER
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:33 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	713371
Conc:	0.32 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD017.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 20:05
Operator : Ex.4-CBI
Sample : 1202038-13
Misc : HW27z,D, WATER
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:38 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	333559285	138.750 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 111.00%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	747152	0.336 ug/L

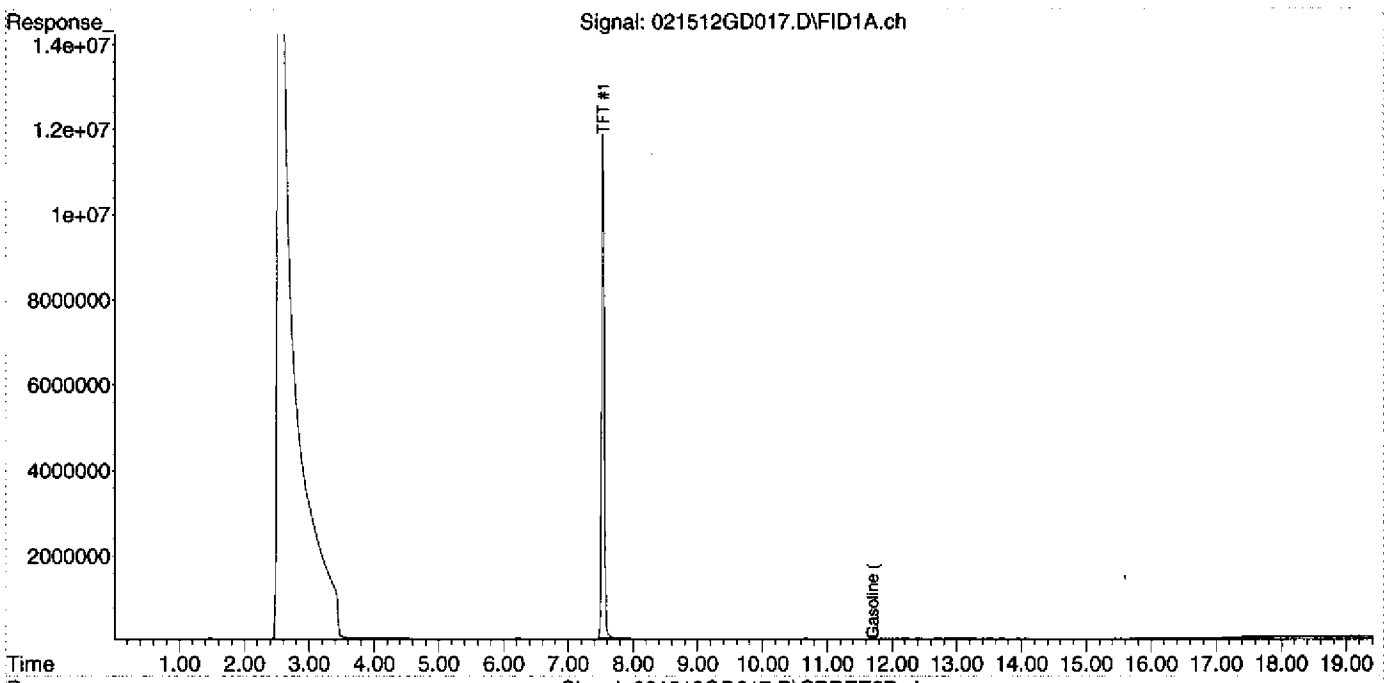
(f)=RT Delta > 1/2 Window (m)=manual int.

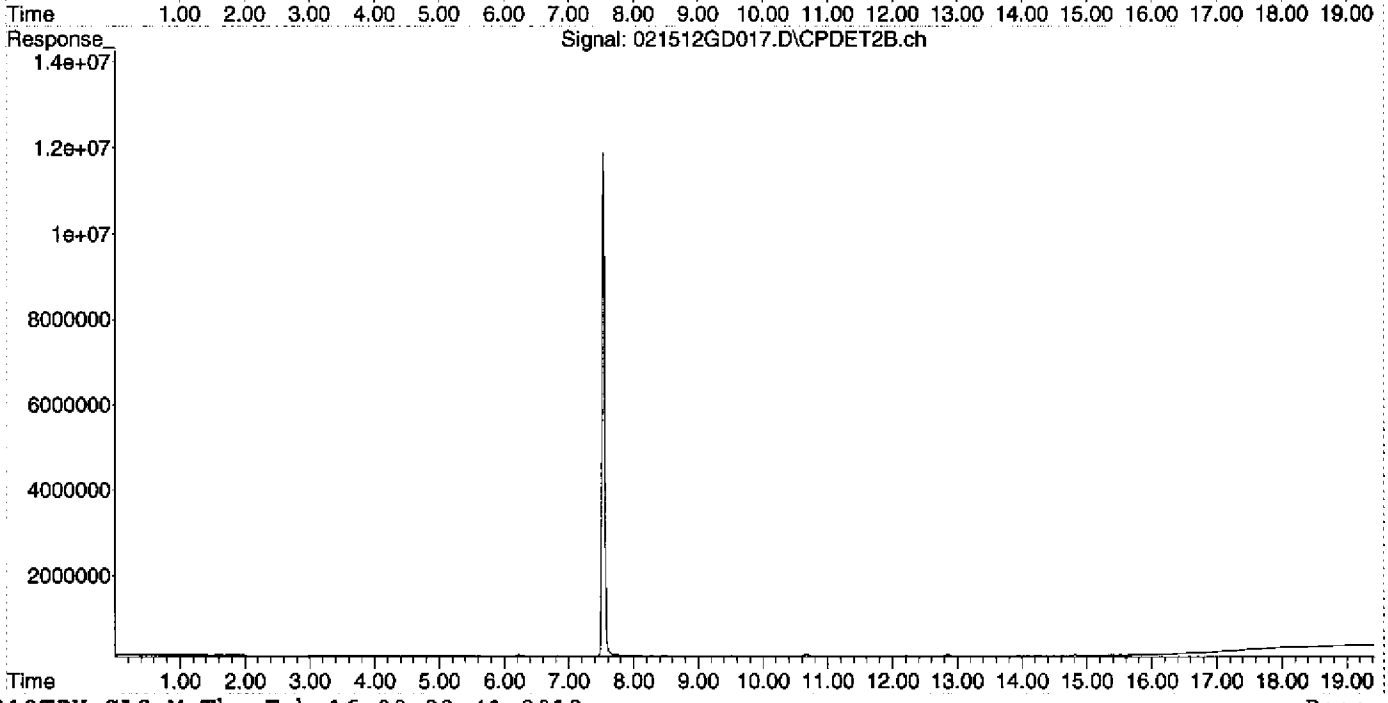
Quantitation Report (Not Reviewed)

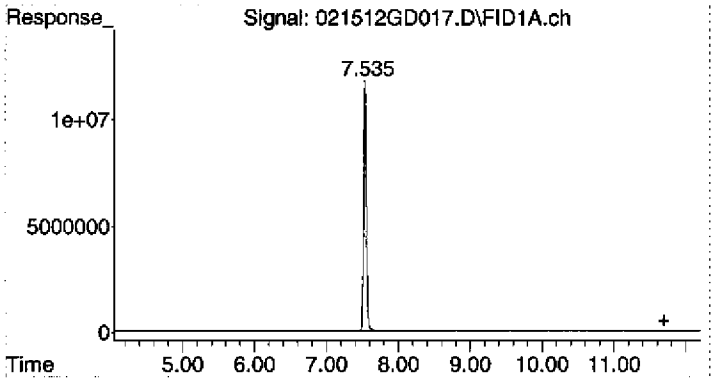
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD017.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 20:05
Operator : Ex. 4 - CBI
Sample : 1202038-13
Misc : HW27z,D, WATER
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:38 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	747152
Conc:	0.34 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD018.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 20:34
Operator : Ex.4-CBI
Sample : 1202038-18
Misc : HW55,I, WATER
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:44 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.530	336894350	140.137 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 112.11%	
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

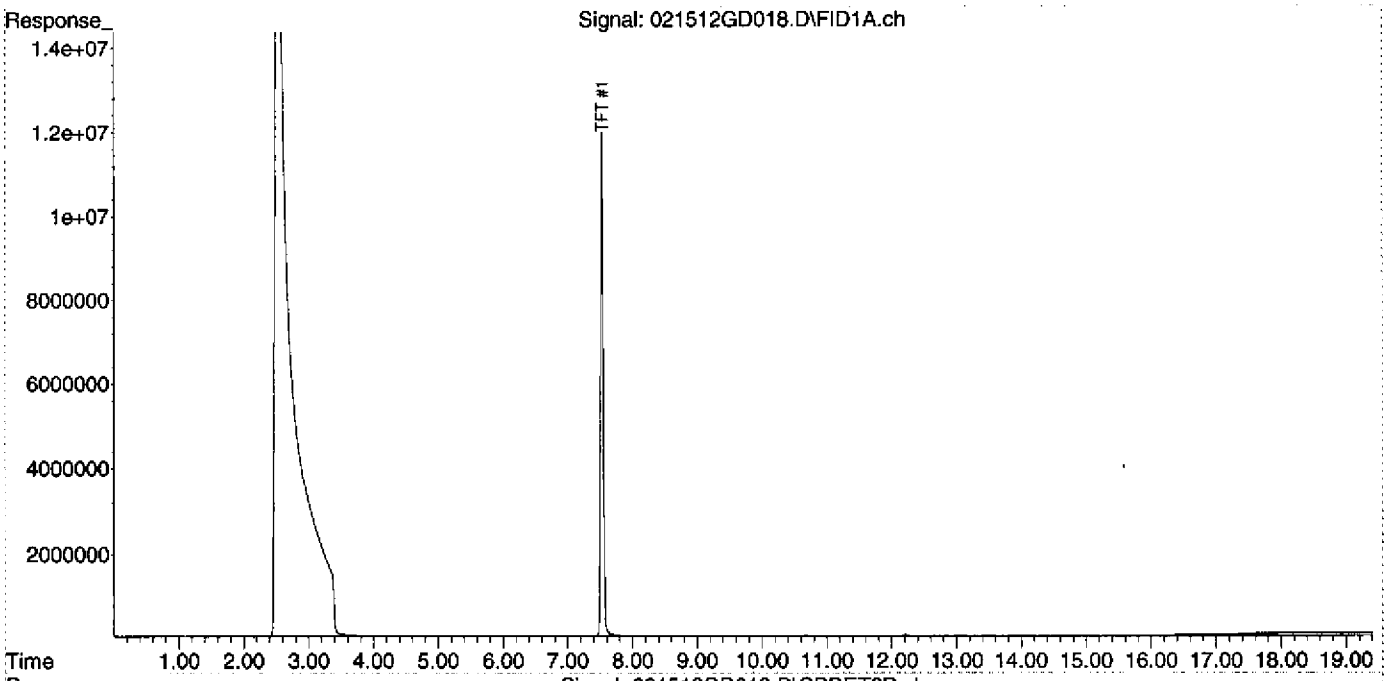
(f)=RT Delta > 1/2 Window (m)=manual int.

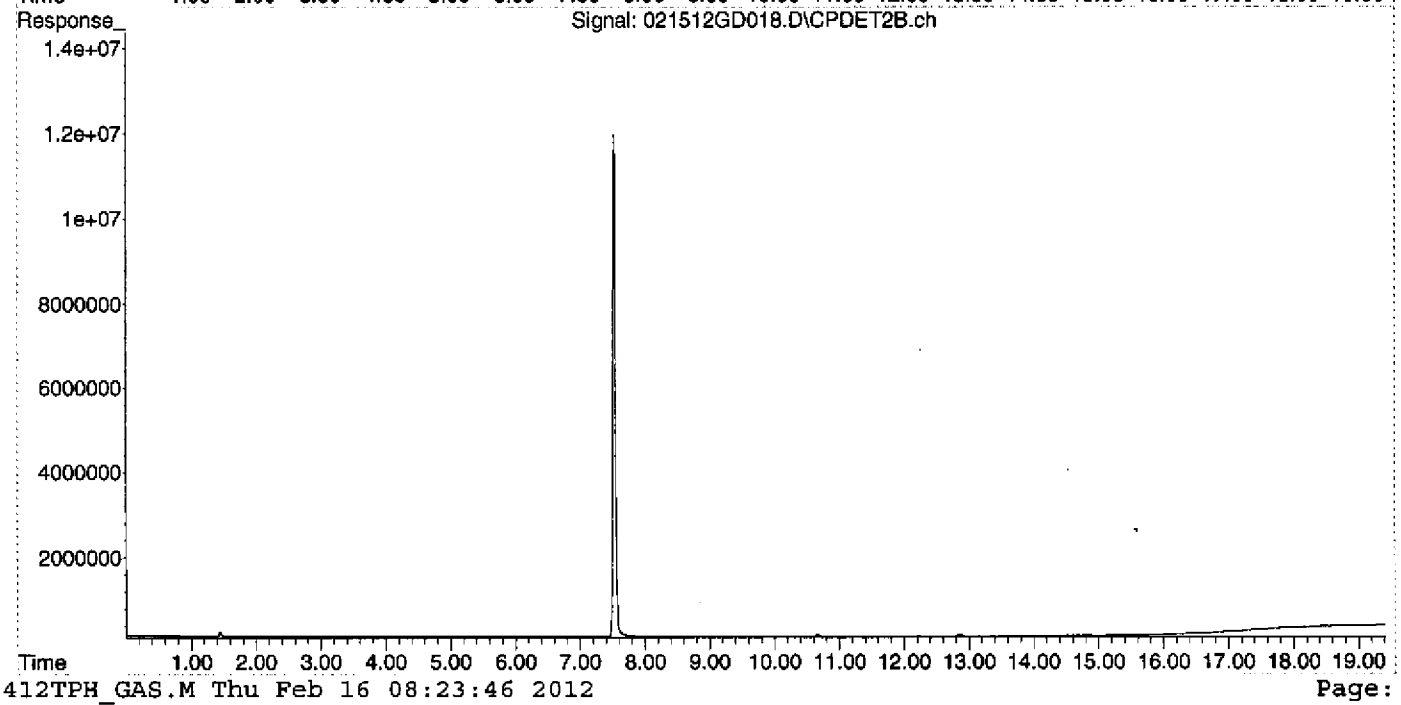
Quantitation Report (Not Reviewed)

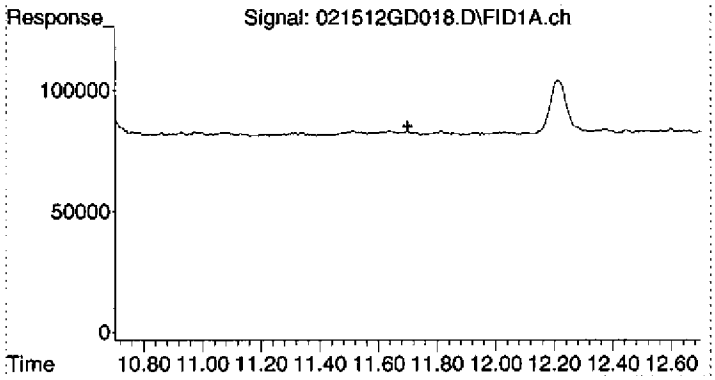
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD018.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 20:34
Operator : [redacted]
Sample : 1202038-18
Misc : HW55,I, WATER
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:44 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD019.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:02
Operator : Ex.4-CBI
Sample : B2B0075-MS1
Misc : HW55,J, WATER SPIKE
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	335312524	139.479 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 111.58%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1054743042	473.728 ug/L

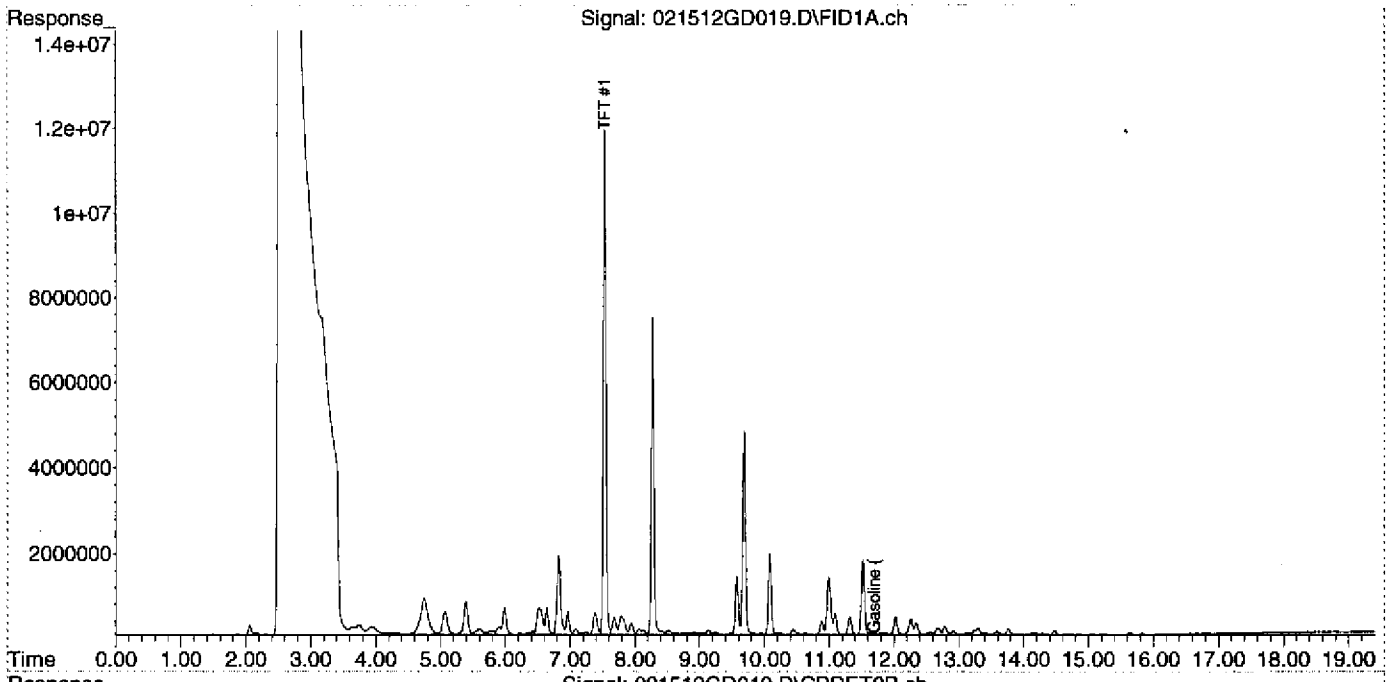
(f)=RT Delta > 1/2 Window (m)=manual int.

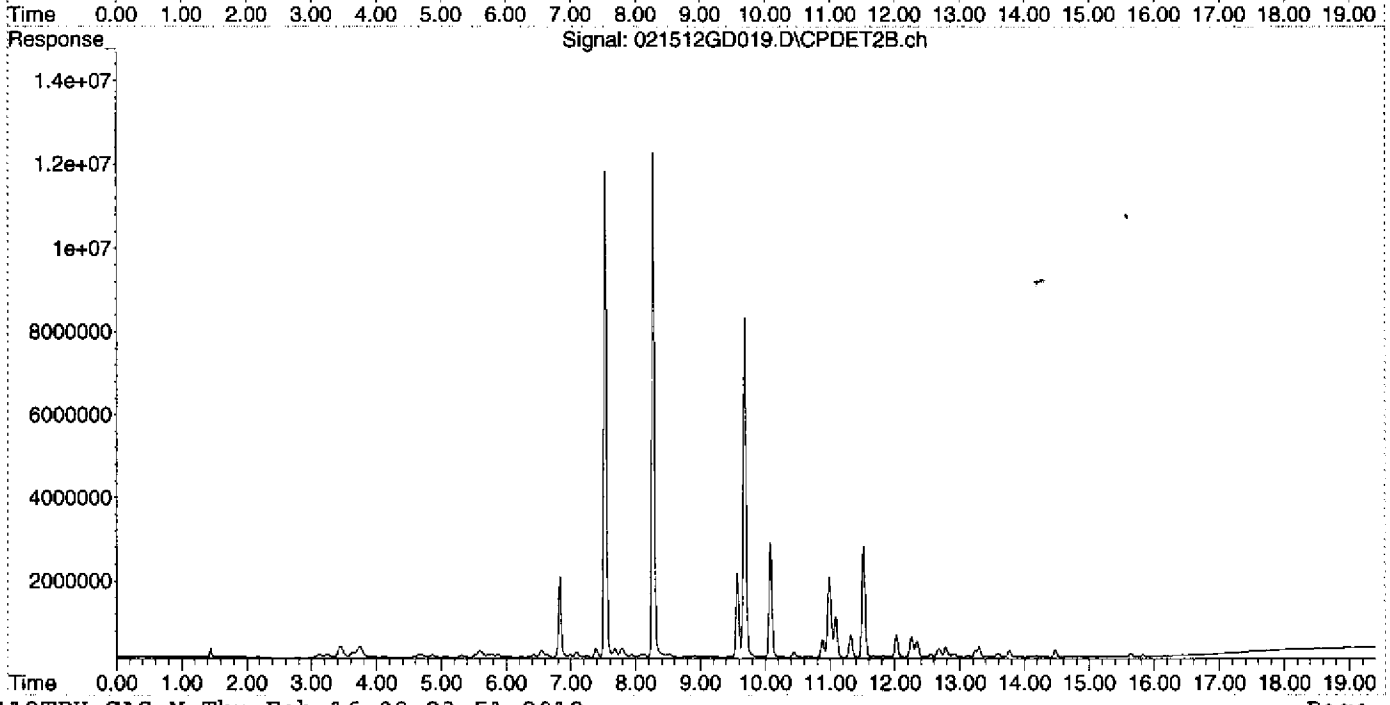
Quantitation Report (Not Reviewed)

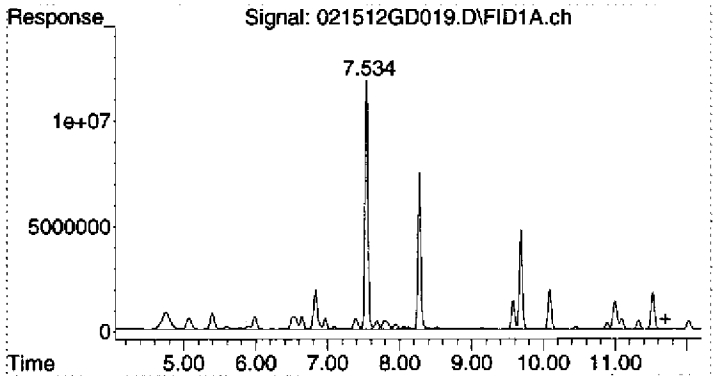
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD019.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:02
Operator : Ex. 4 - CBI
Sample : B2B0075-MS1
Misc : HW55,J, WATER SPIKE
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1054743042
Conc: 473.73 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD020.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:30
Operator : Ex.4-CBI
Sample : B2B0075-MSD1
Misc : HW55,G, WATER SPIKE
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:54 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	336038905	139.781 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 111.82%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1186456969	532.886 ug/L

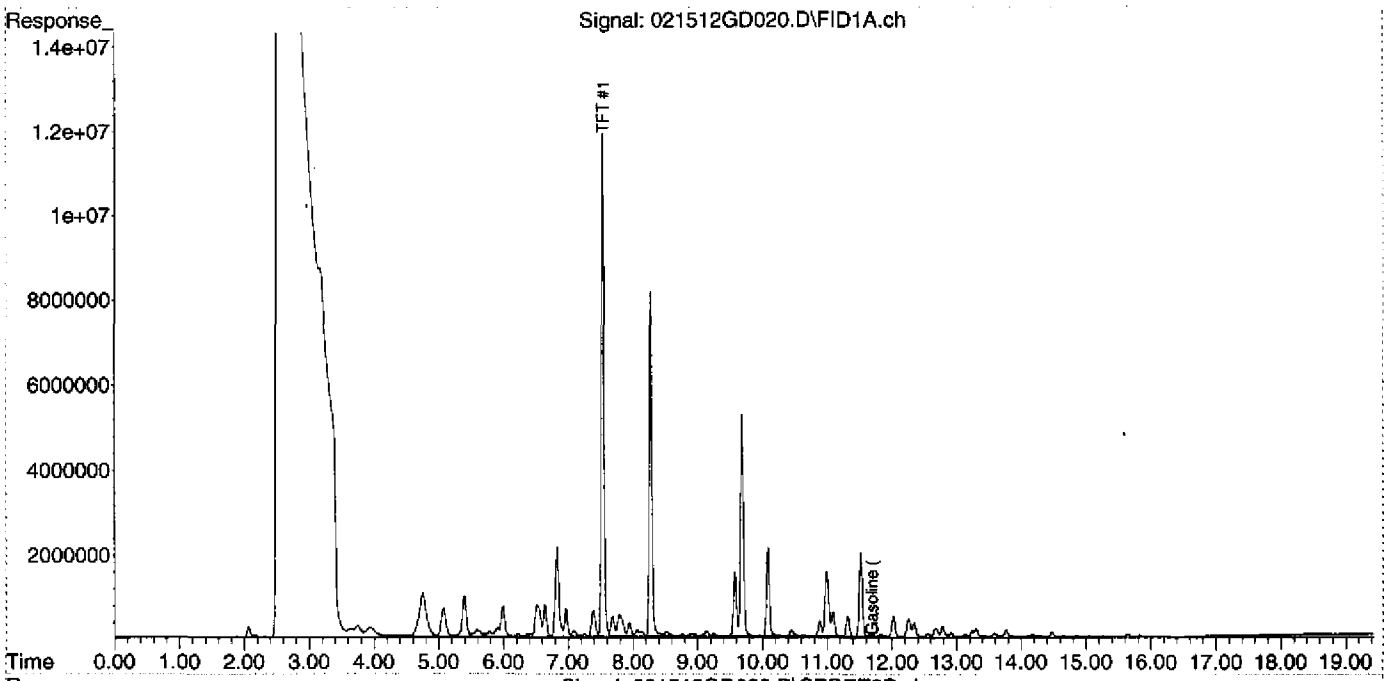
(f)=RT Delta > 1/2 Window (m)=manual int.

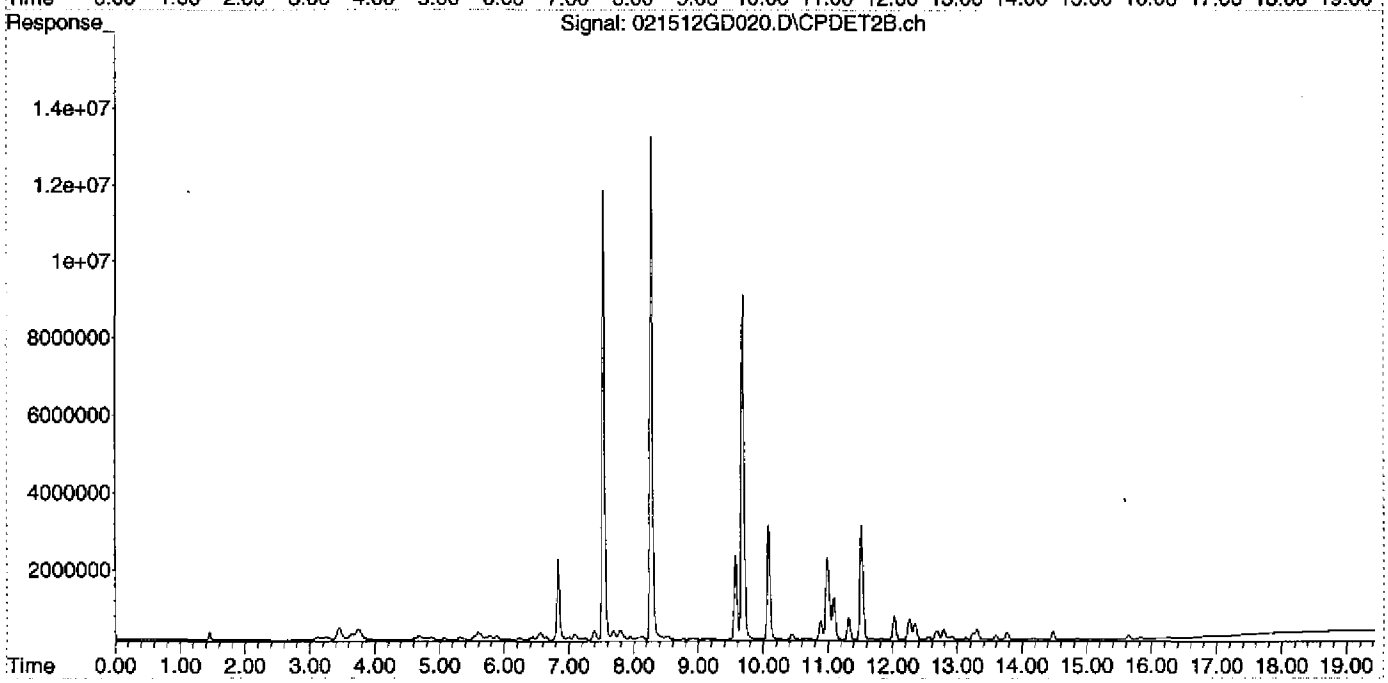
Quantitation Report (Not Reviewed)

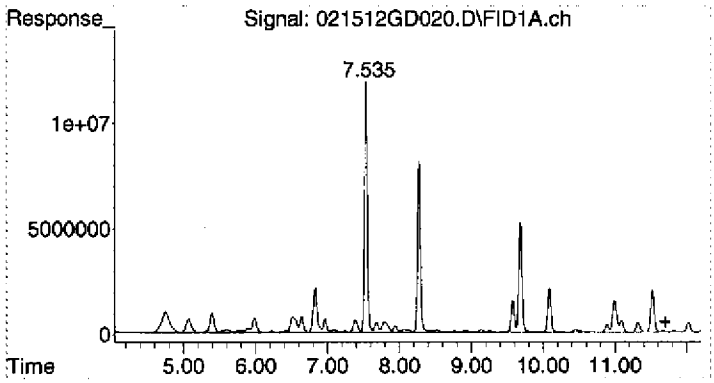
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD020.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:30
Operator : Ex. 4-CBI
Sample : B2B0075-MSD1
Misc : HW55,G, WATER SPIKE
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:23:54 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1186456969
Conc: 532.89 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD021.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:59
Operator : Ex.4 - CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:00 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	339360274	141.163 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 112.93%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	346412	0.156 ug/L

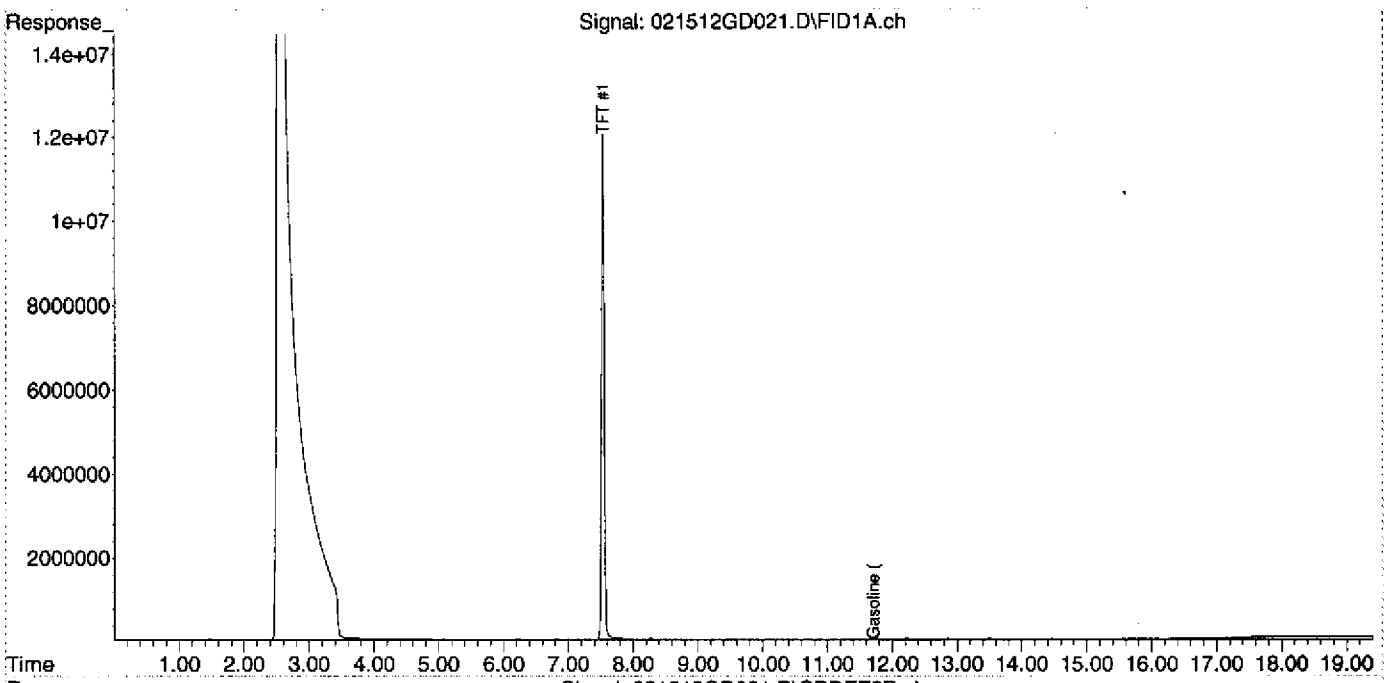
(f)=RT Delta > 1/2 Window (m)=manual int.

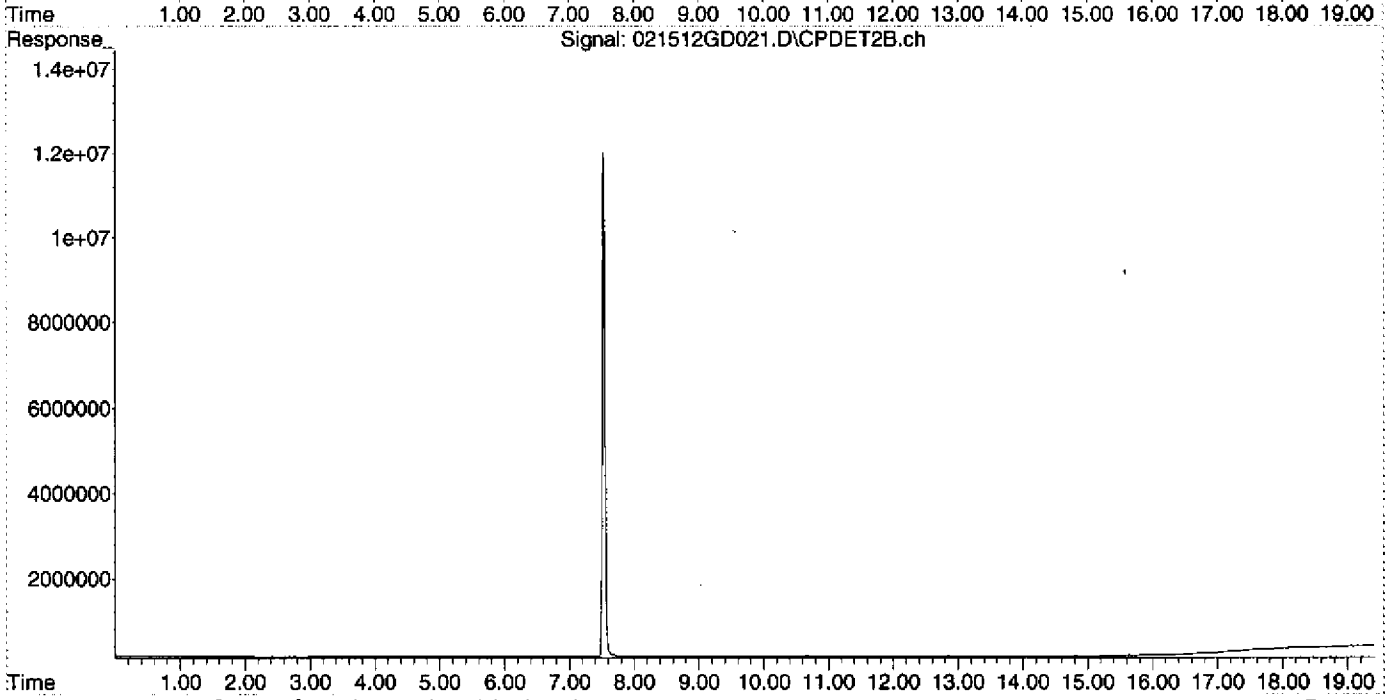
Quantitation Report (Not Reviewed)

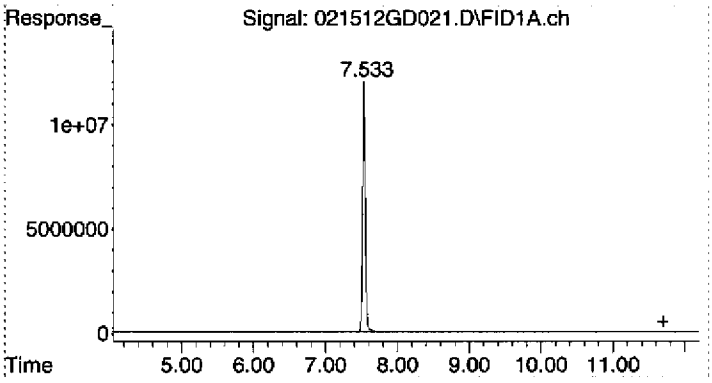
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD021.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 21:59
Operator : Ex. 4 - CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:00 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	346412
Conc:	0.16 ug/L

Evaluate Continuing Calibration Report

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD022.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:28
Operator : Ex. 4 - CBI
Sample : 2020051-CCV2
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:05 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.03min
Max. RRF Dev : 15% Max. Rel. Area : 130%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 HRM Gasoline (TPH) #1	2.226	2.271 E6	-2.0	97	0.00
2 S TFT #1	2.404	2.714 E6	-12.9	113	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD022.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:28
Operator : Ex. 4 - CBI
Sample : 2020051-CCV2
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:05 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	339283384	141.131 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 112.90%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1135516326	510.007 ug/L

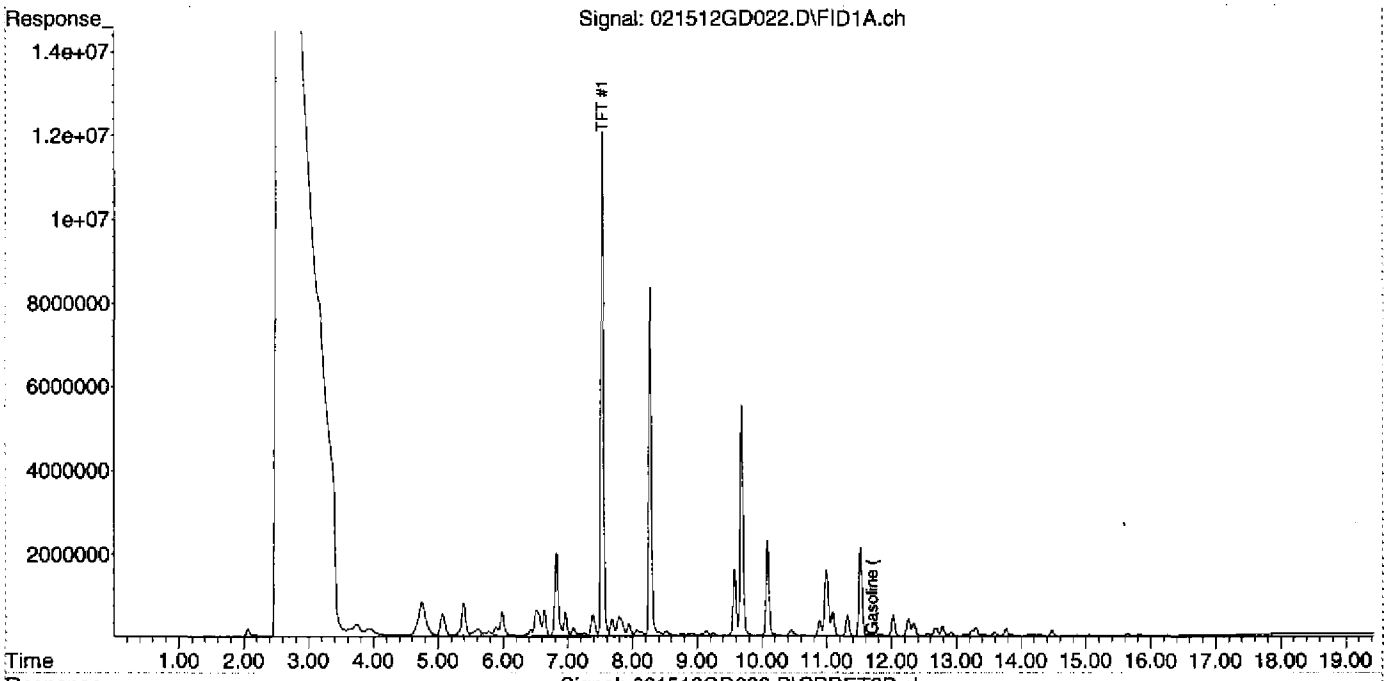
(f)=RT Delta > 1/2 Window (m)=manual int.

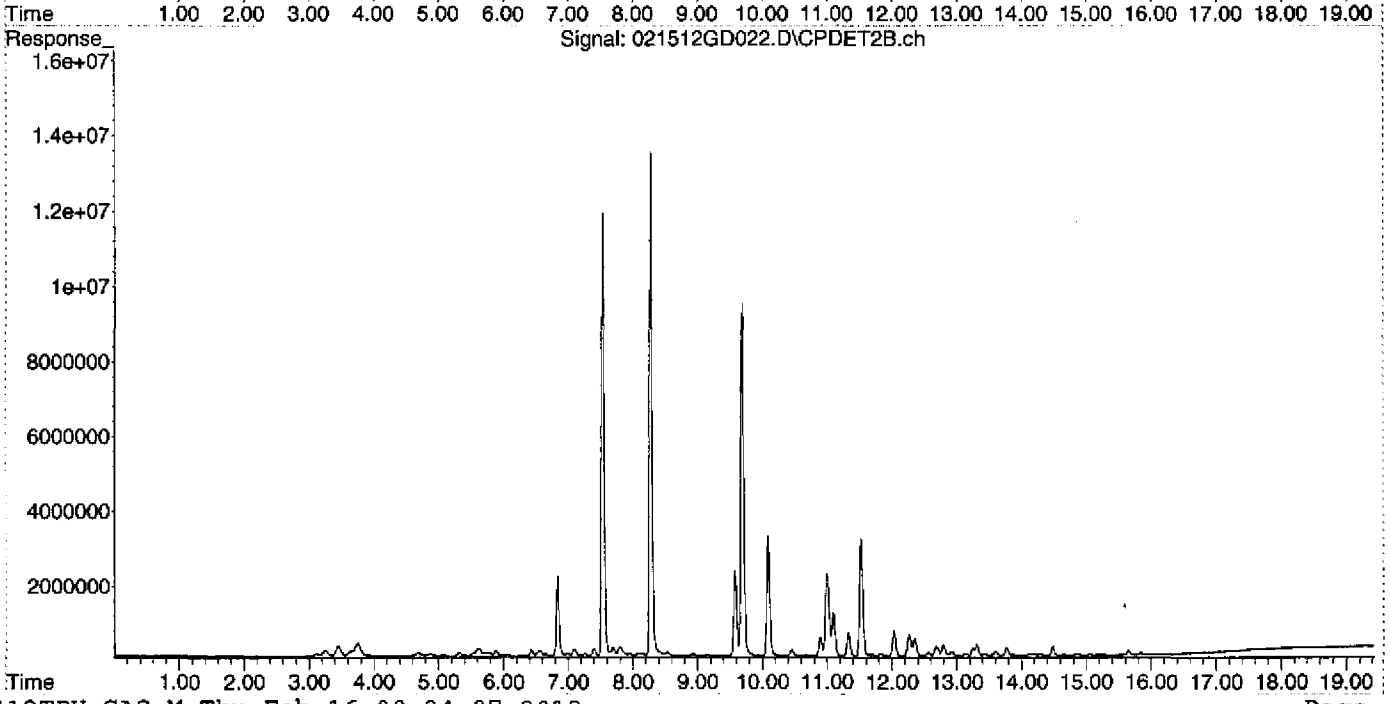
Quantitation Report (Not Reviewed)

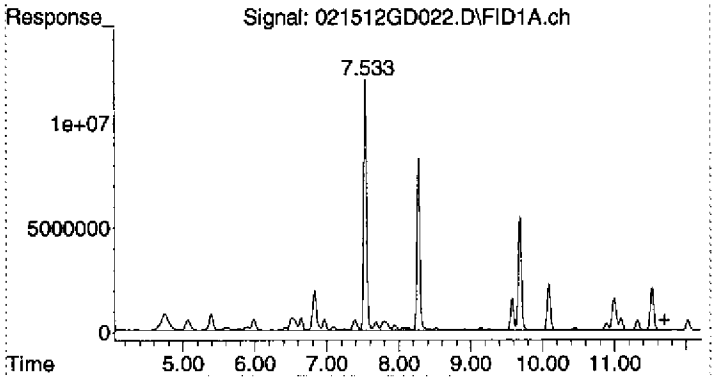
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD022.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:28
Operator : Ex. 4 - CBI
Sample : 2020051-CCV2
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:05 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1135516326
Conc: 510.01 ug/L

Evaluate Continuing Calibration Report

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD023.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:57
Operator : Ex.4.CBI
Sample : 2020051-CCV3
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:09 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.03min
Max. RRF Dev : 15% Max. Rel. Area : 130%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 HRM Gasoline (TPH) #1	2.226	2.105 E6	5.4	90	0.00
2 S TFT #1	2.404	2.685 E6	-11.7	112	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD023.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:57
Operator : Ex. 4 - CBI
Sample : 2020051-CCV3
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:09 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.534	335629970	139.611 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 111.69%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1052579415	472.757 ug/L

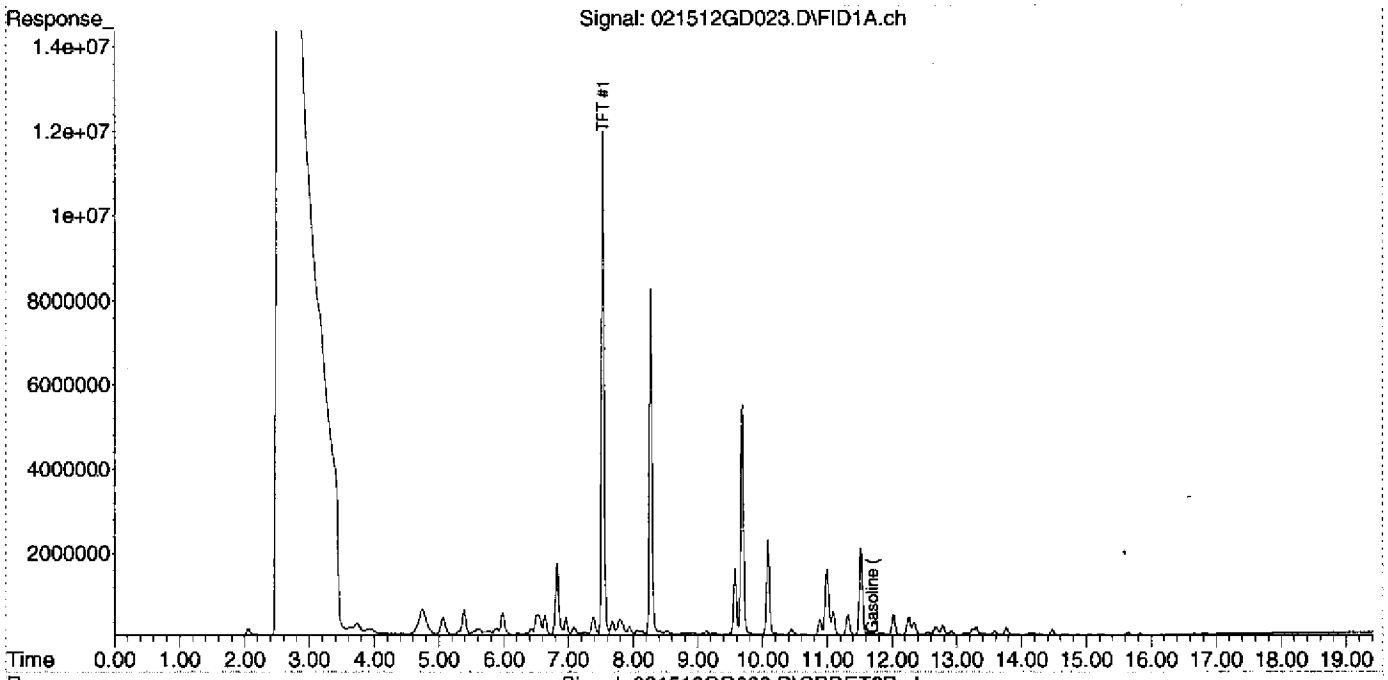
(f)=RT Delta > 1/2 Window (m)=manual int.

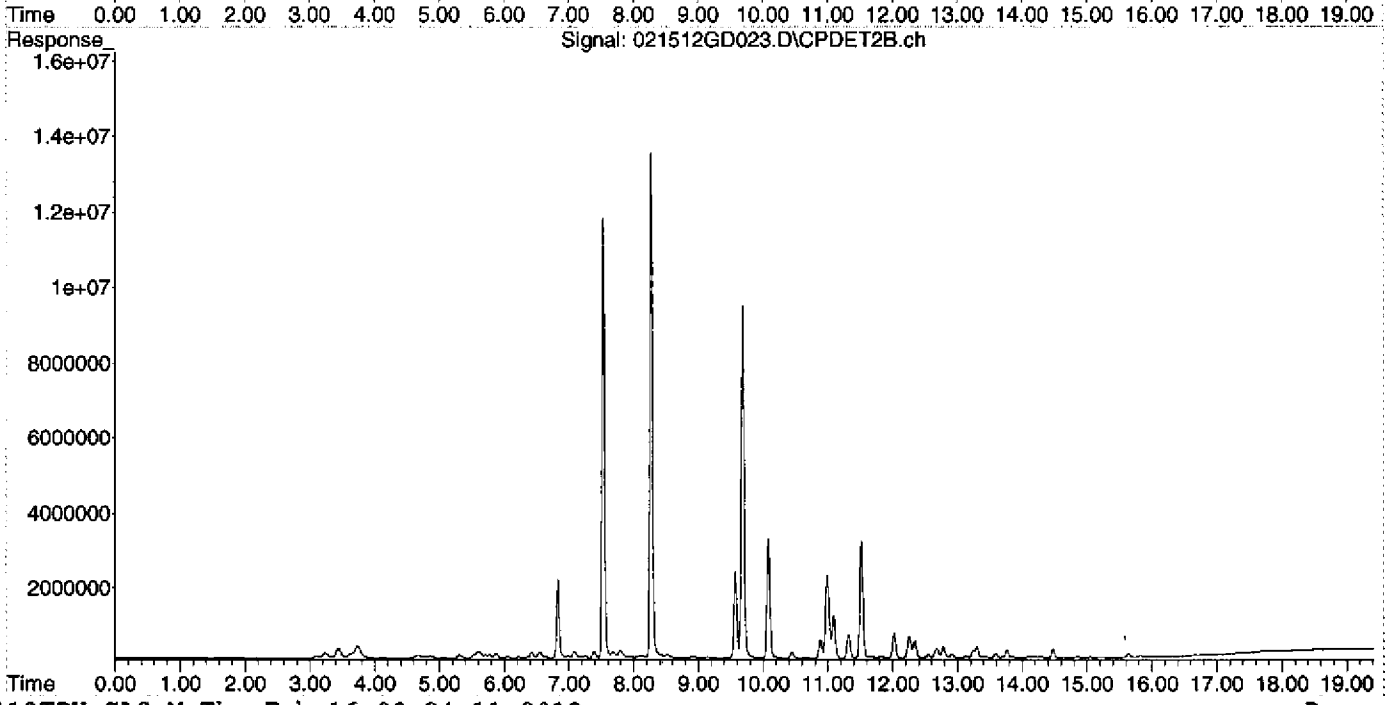
Quantitation Report (Not Reviewed)

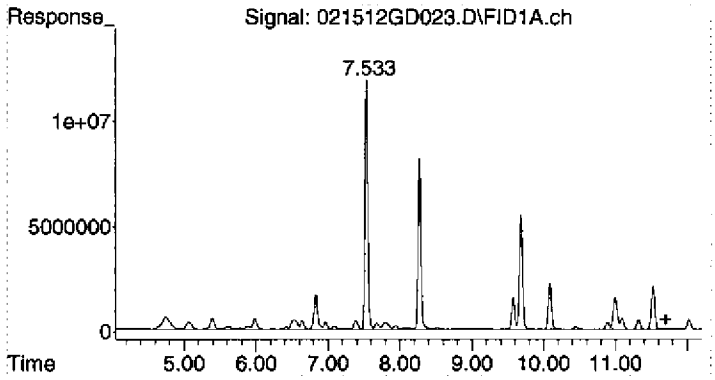
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD023.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 22:57
Operator : Ex.4-CBI
Sample : 2020051-CCV3
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:09 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1052579415
Conc: 472.76 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD024.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 23:25
Operator : [redacted]
Sample : B2B0075-BLK2
Misc : BLANK, WATER
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:14 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S TFT #1	7.535	342805973	142.596	ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 114.08%				
Target Compounds				
1) HRM Gasoline (TPH) #1	0.000	0	N.D.	ug/L

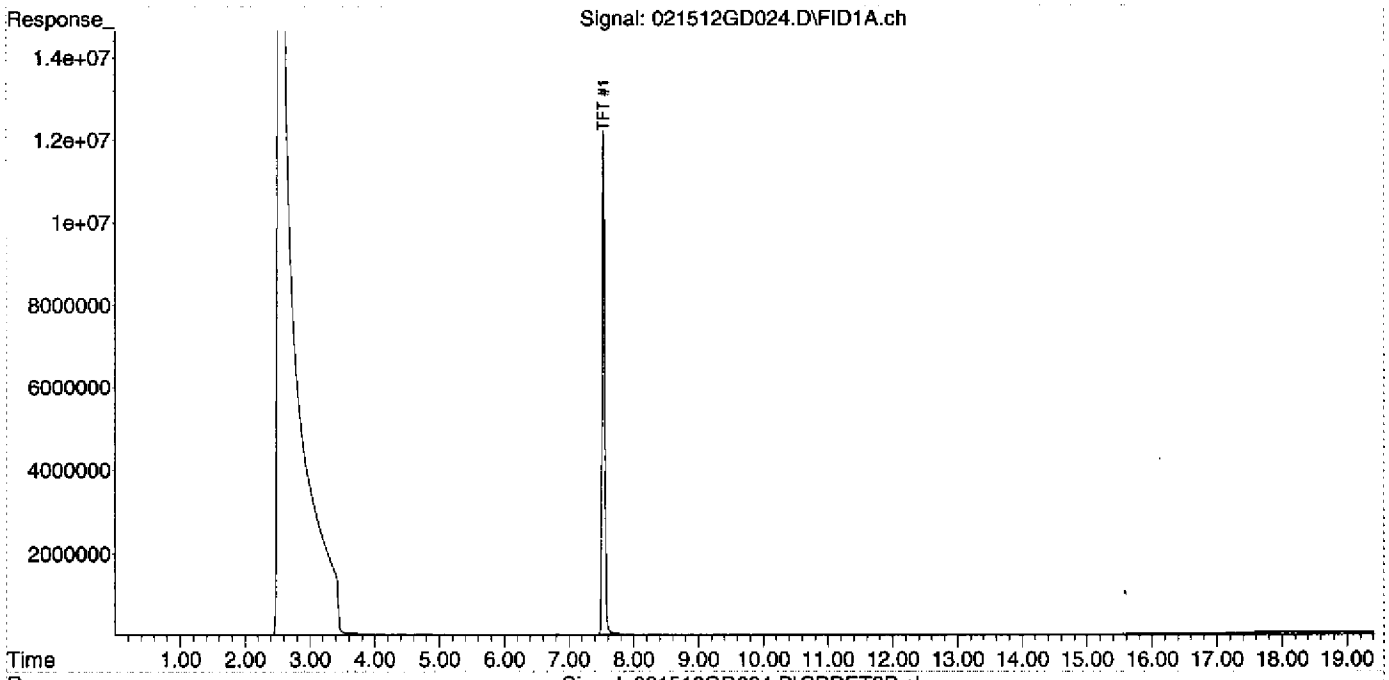
(f)=RT Delta > 1/2 Window (m)=manual int.

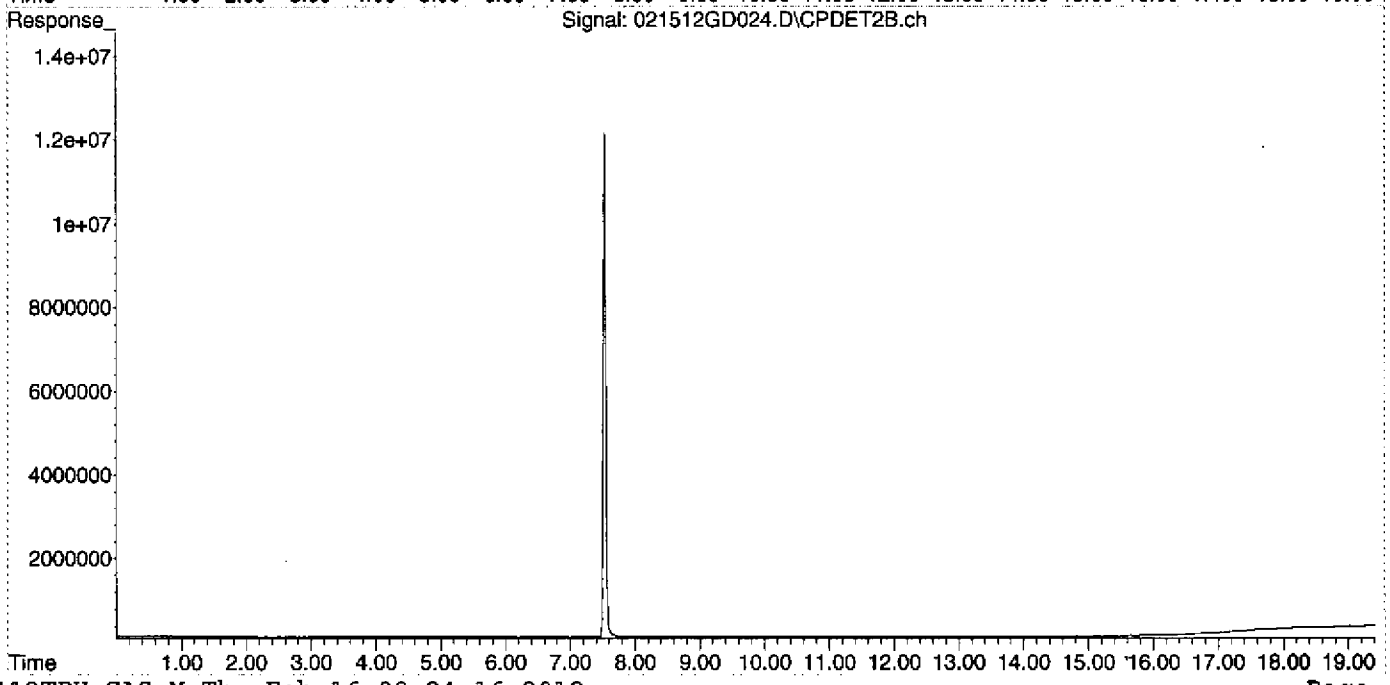
Quantitation Report (Not Reviewed)

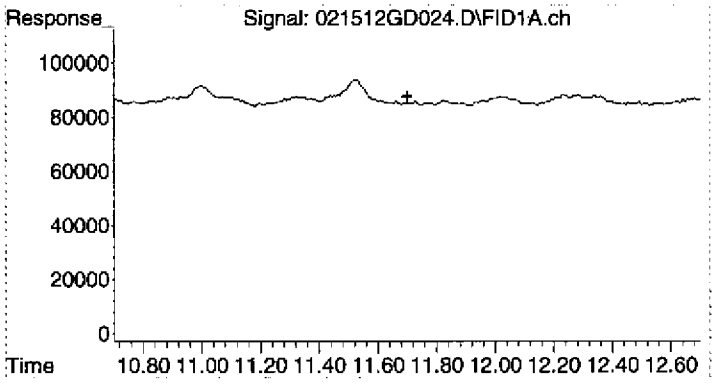
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD024.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 23:25
Operator : Ex. 4 - CBI
Sample : B2B0075-BLK2
Misc : BLANK, WATER
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:14 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Operator Ex. 4 - CBI
Sample Name B2B0075-BS2
Instrument Name GC-FID-PID

#	Name	Units	SPIKE	Amount	QC	LIMIT	RECOVER	STATUS
1)	Gasoline (TPH) #1	ug/L	500	505.44	75	114	101%	PASS
2)	TFT #1	ug/L	125	143.20	76	121	115%	PASS

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD025.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 15 Feb 2012 23:54
Operator : Ex. 4 - CBI
Sample : B2B0075-BS2
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:19 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	344264196	143.203 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 114.56%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1125345057	505.439 ug/L

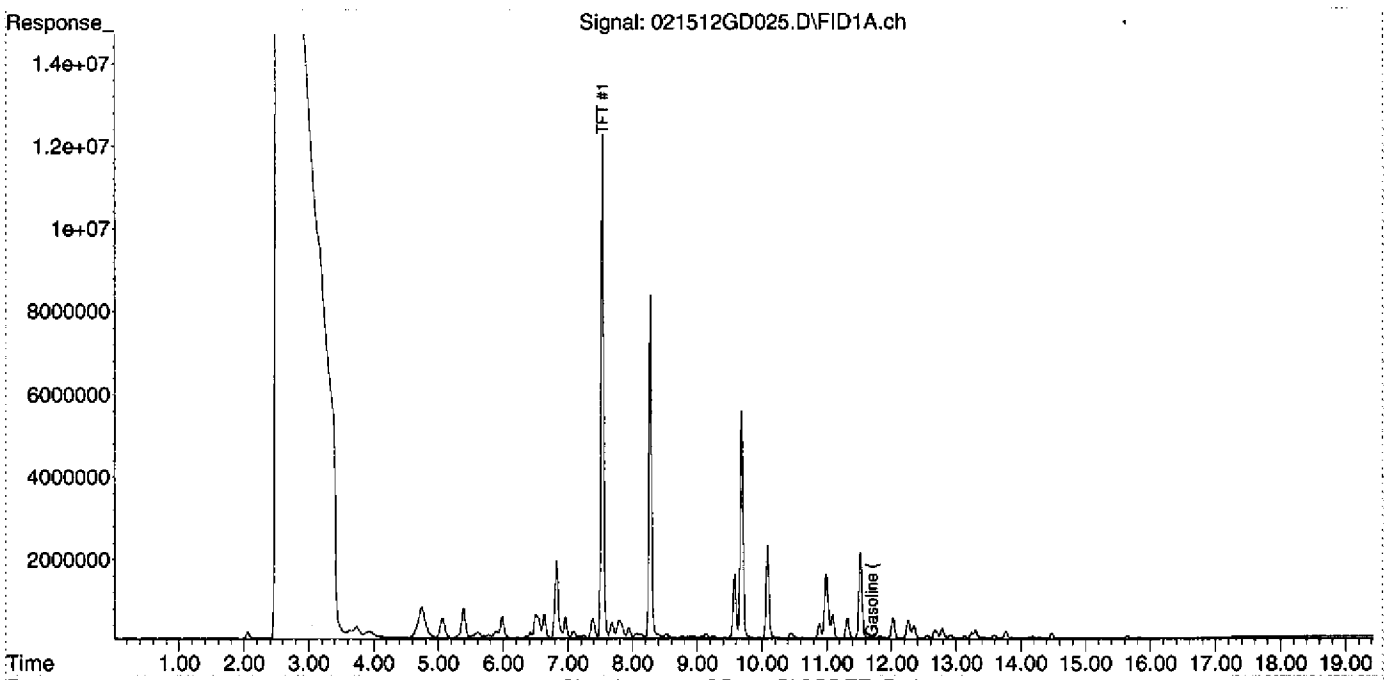
(f)=RT Delta > 1/2 Window (m)=manual int.

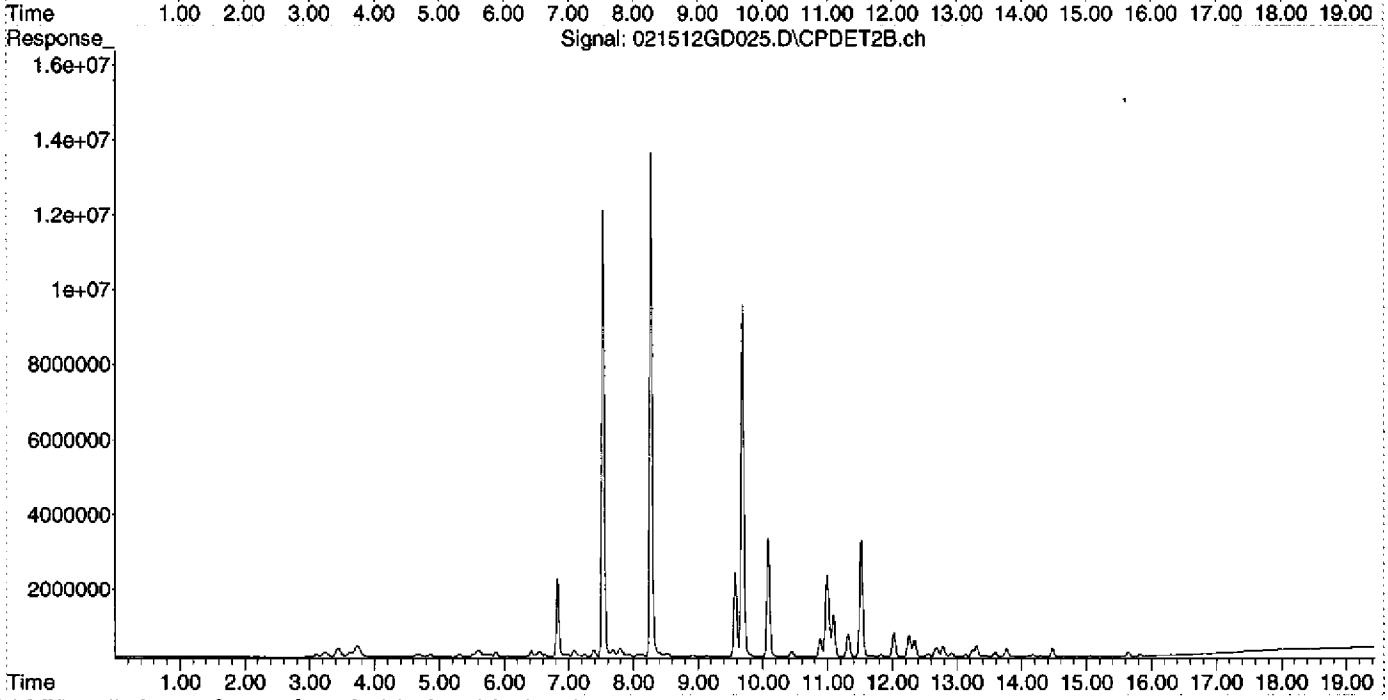
Quantitation Report (Not Reviewed)

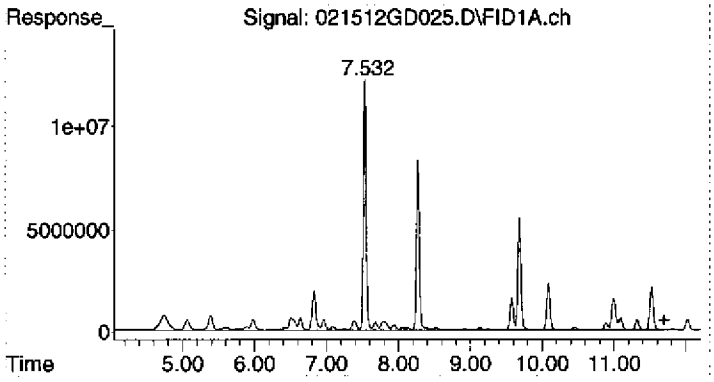
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD025.D
Signal(s) : Signal #1: FID1A.ch Signal #2:.CPDET2B.ch
Acq On : 15 Feb 2012 23:54
Operator : Ex. 4 - CBI
Sample : B2B0075-BS2
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:19 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1125345057
Conc: 505.44 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD026.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 00:22
Operator : Ex. 4 - CBI
Sample : 1202038-14
Misc : TB40,B, WATER
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:24 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	335743067	139.658 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 111.73%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	2998847	1.347 ug/L

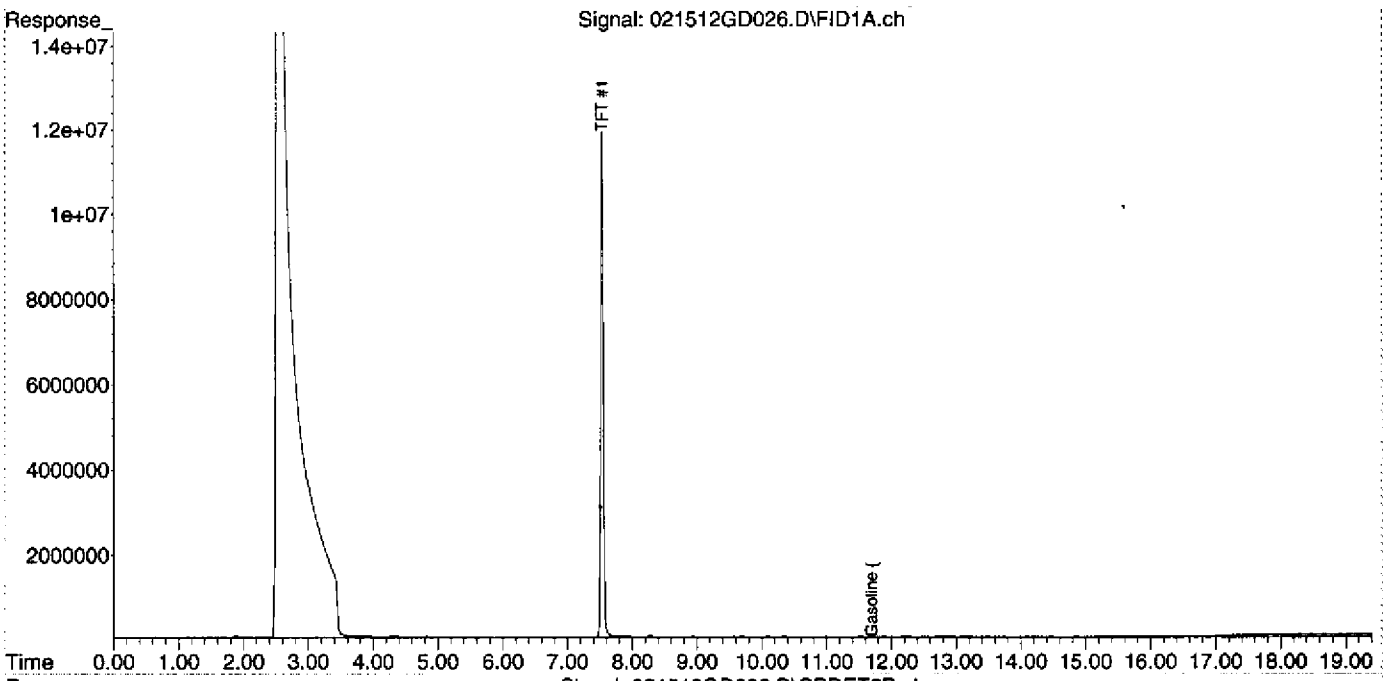
(f)=RT Delta > 1/2 Window (m)=manual int.

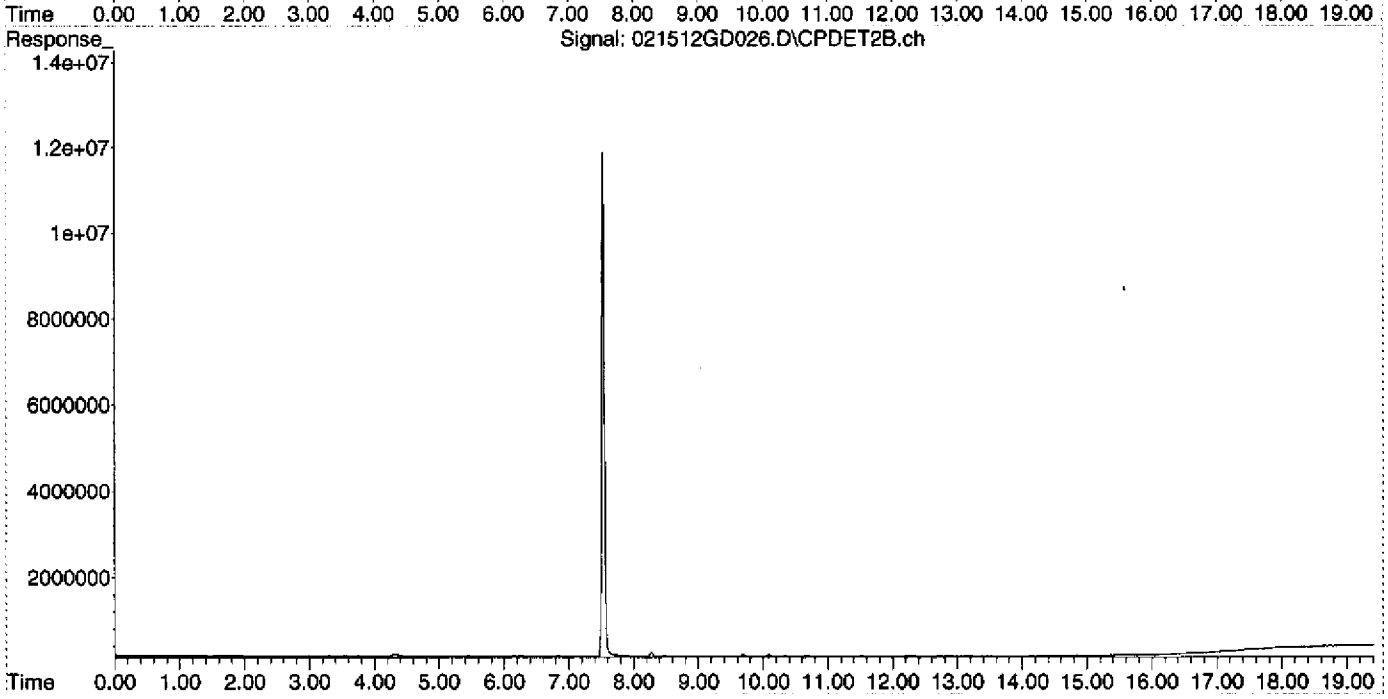
Quantitation Report (Not Reviewed)

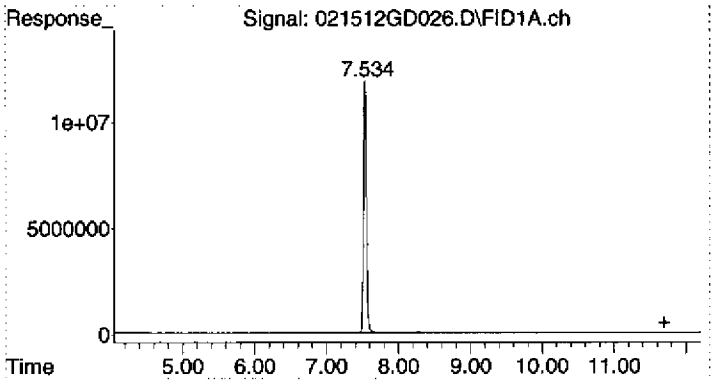
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD026.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 00:22
Operator : Ex. 4 - CBI
Sample : 1202038-14
Misc : TB40,B, WATER
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:24 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	2998847
Conc:	1.35 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD027.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 00:50
Operator : Ex.4-CBI
Sample : 1202038-15
Misc : HW03,C, WATER
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:29 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	332551619	138.331 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 110.66%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1733470	0.779 ug/L

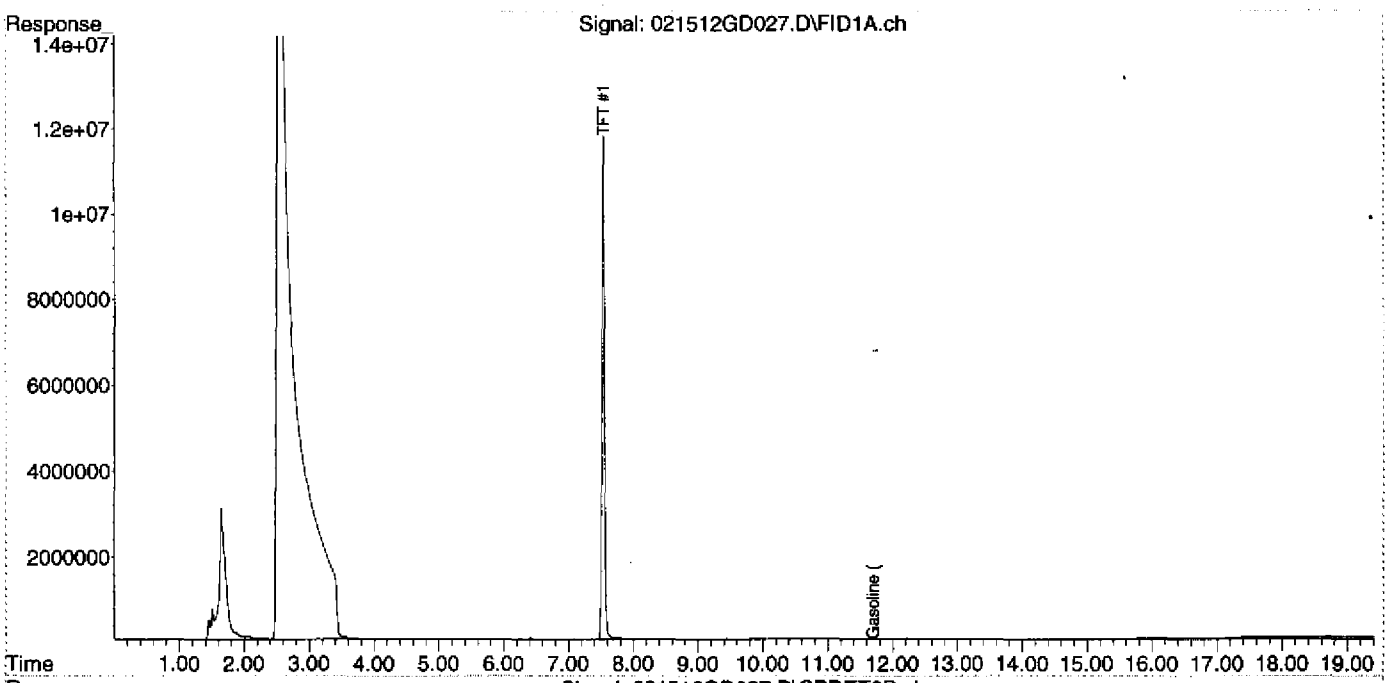
(f)=RT Delta > 1/2 Window (m)=manual int.

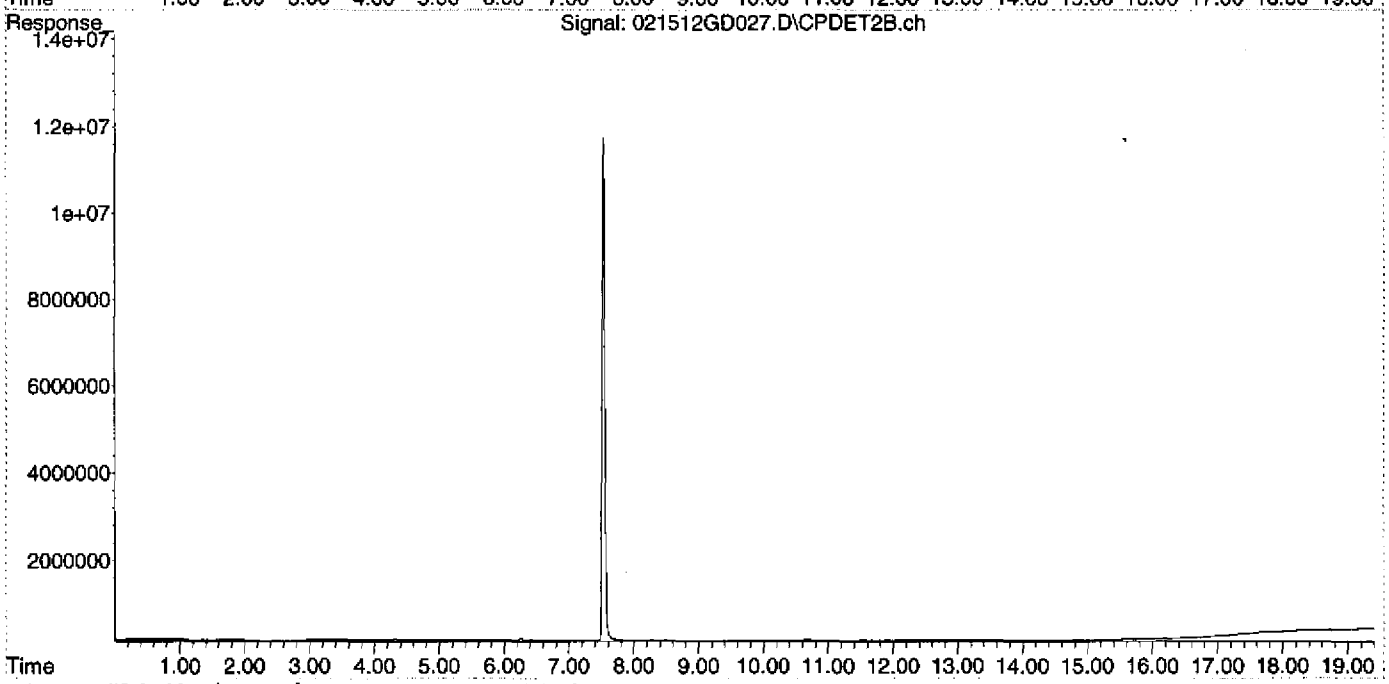
Quantitation Report (Not Reviewed)

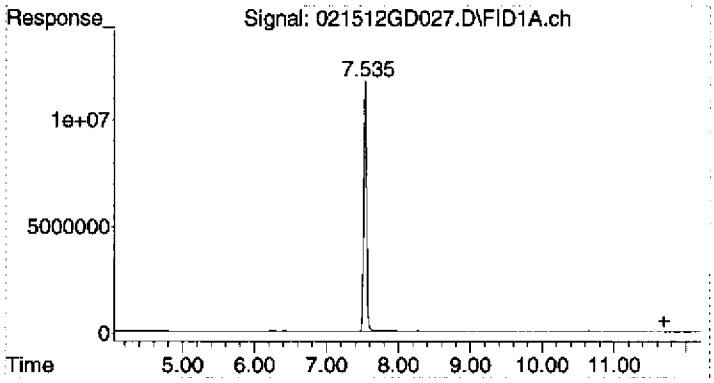
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD027.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 00:50
Operator : Ex 4-CBI
Sample : 1202038-15
Misc : HW03,C, WATER
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:29 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1733470
Conc:	0.78 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD028.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 1:18
Operator : Ex.4-CBI
Sample : 1202038-16
Misc : HW03z,C, WATER
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:34 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	325032833	135.203 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	108.16%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1608820	0.723 ug/L

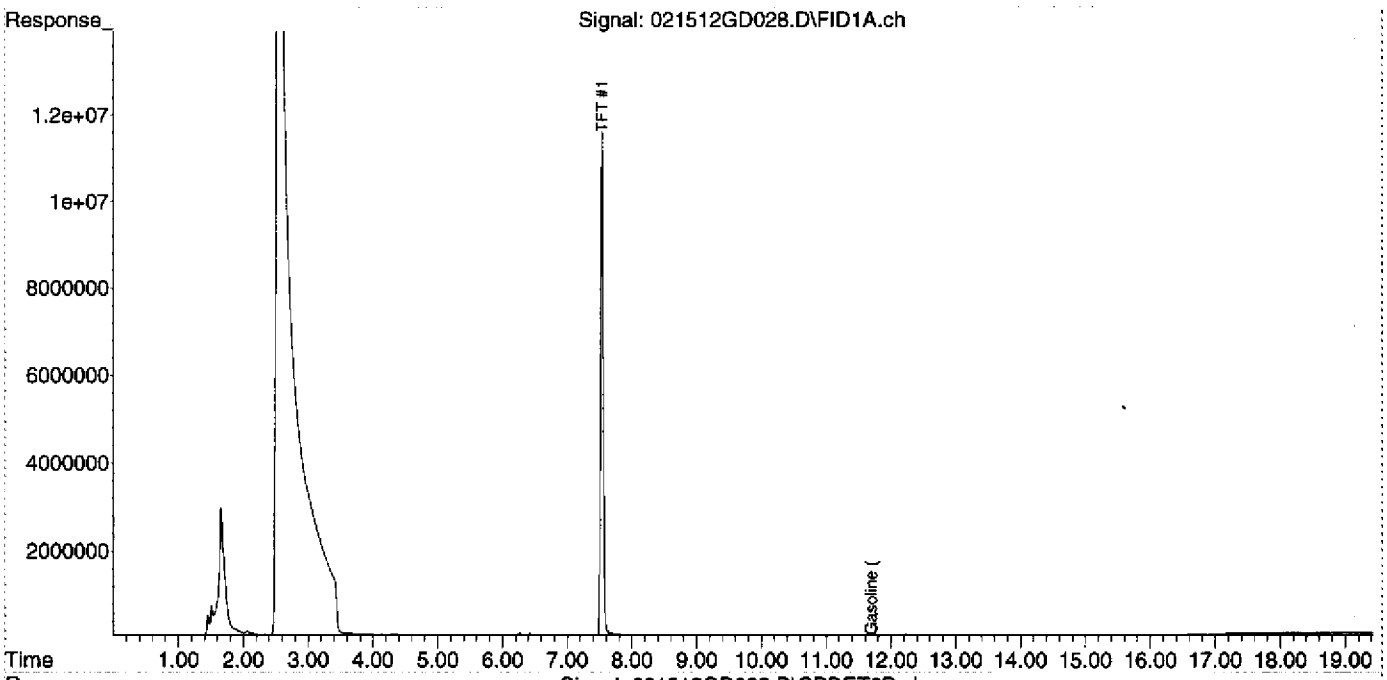
(f)=RT Delta > 1/2 Window (m)=manual int.

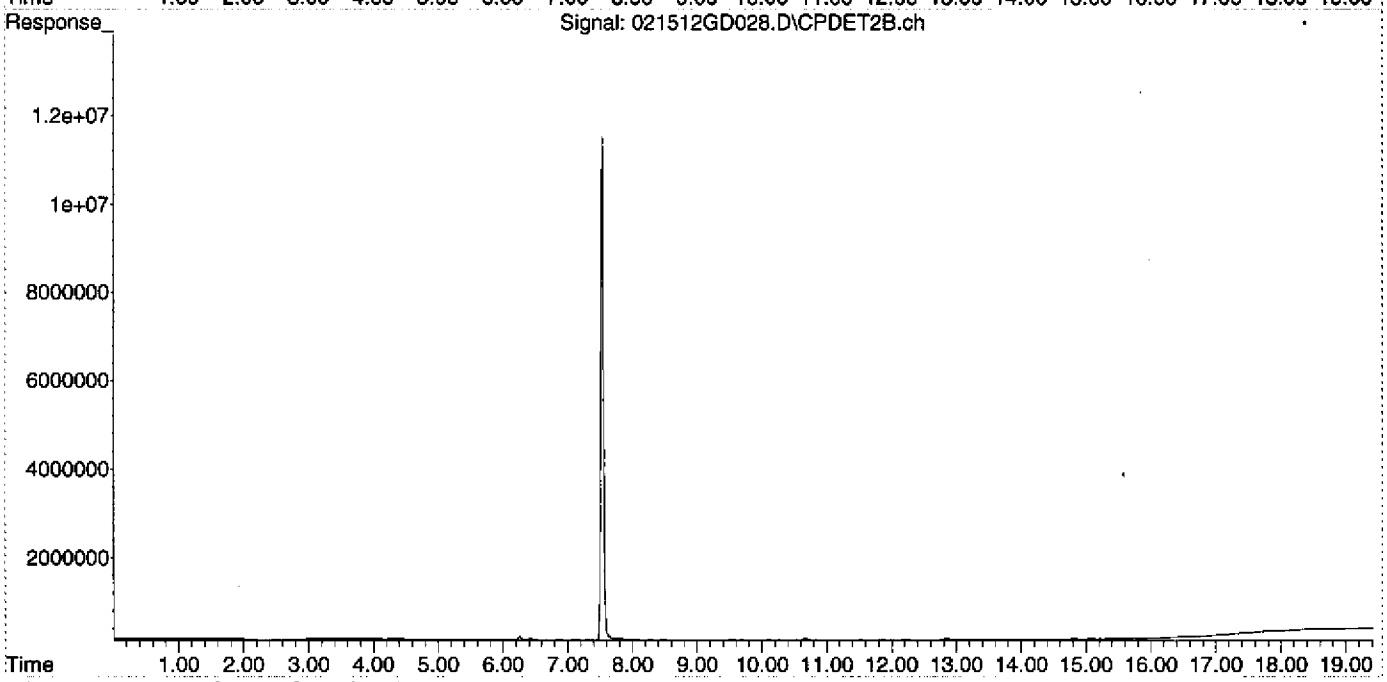
Quantitation Report (Not Reviewed)

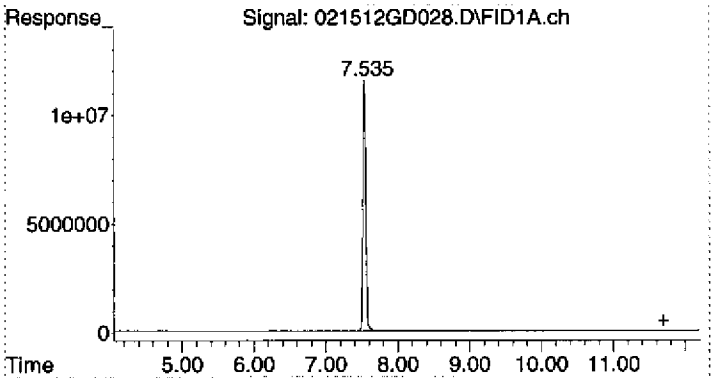
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD028.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 1:18
Operator : EX.4-CB
Sample : 1202038-16
Misc : HW03z,C, WATER
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:34 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1608820
Conc:	0.72 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD029.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 1:47
Operator : Ex. 4 - CBI
Sample : 1202038-17
Misc : TB46,A, WATER
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:39 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	331076234	137.717 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 110.17%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1839511	0.826 ug/L

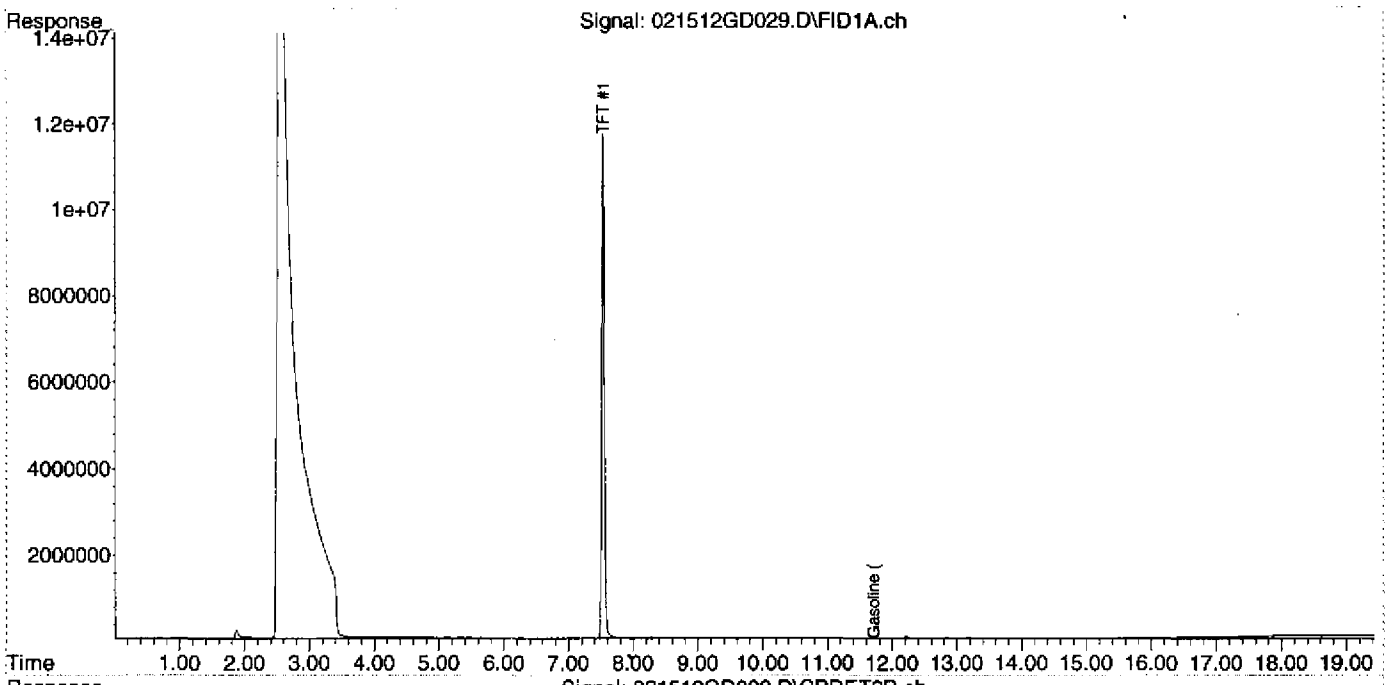
(f)=RT Delta > 1/2 Window (m)=manual int.

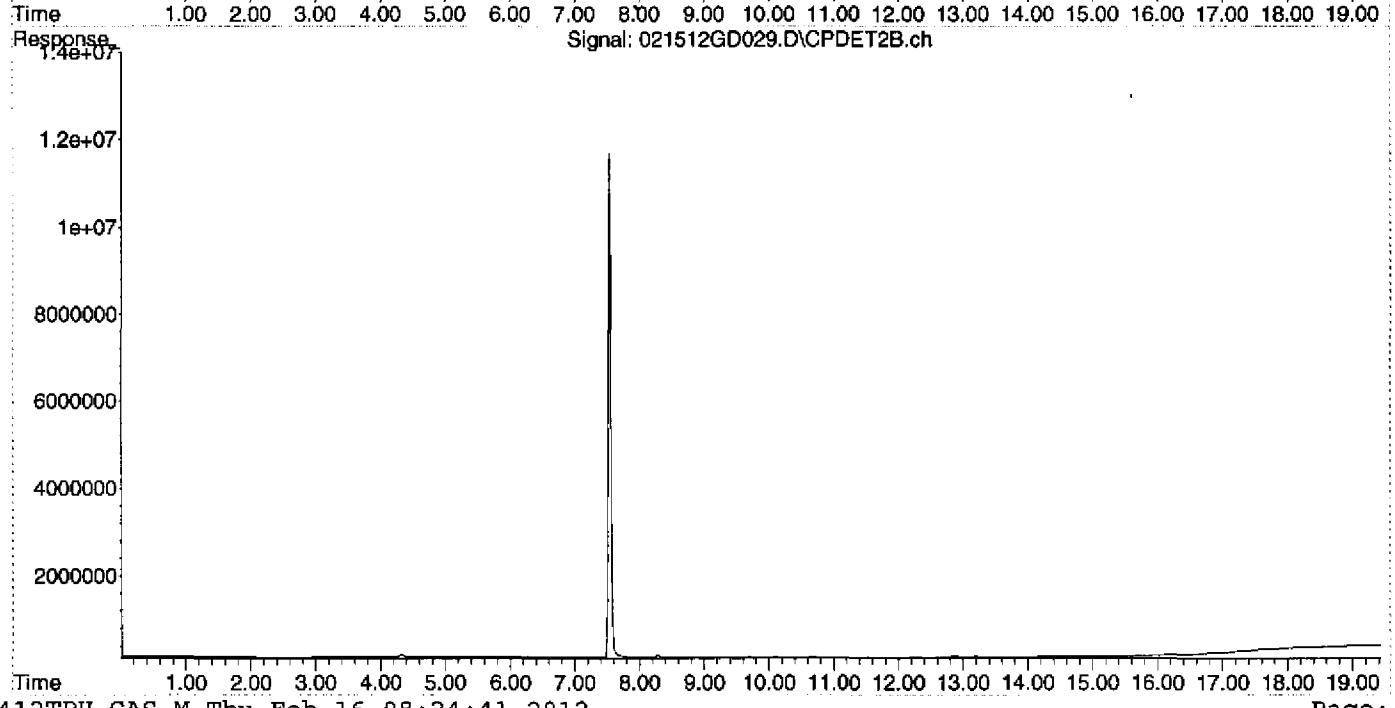
Quantitation Report (Not Reviewed)

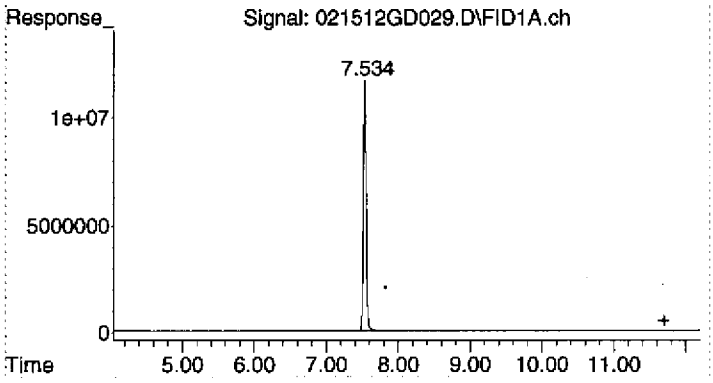
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD029.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 1:47
Operator : Ex. 4 - CBI
Sample : 1202038-17
Misc : TB46,A, WATER
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:39 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1839511
Conc:	0.83 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD030.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 2:15
Operator : [redacted]
Sample : 1202038-19
Misc : TB41,A, WATER
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:44 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	339094048	141.052 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery = 112.84%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	2191324	0.984 ug/L

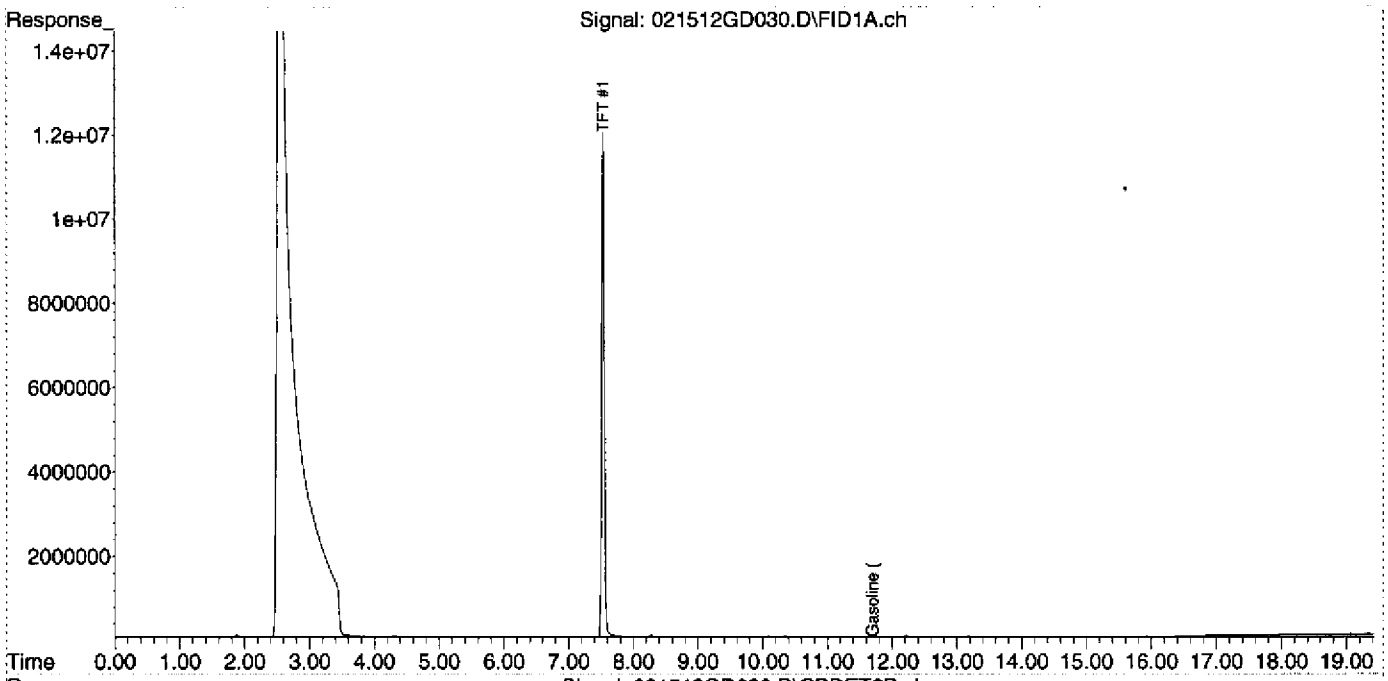
(f)=RT Delta > 1/2 Window (m)=manual int.

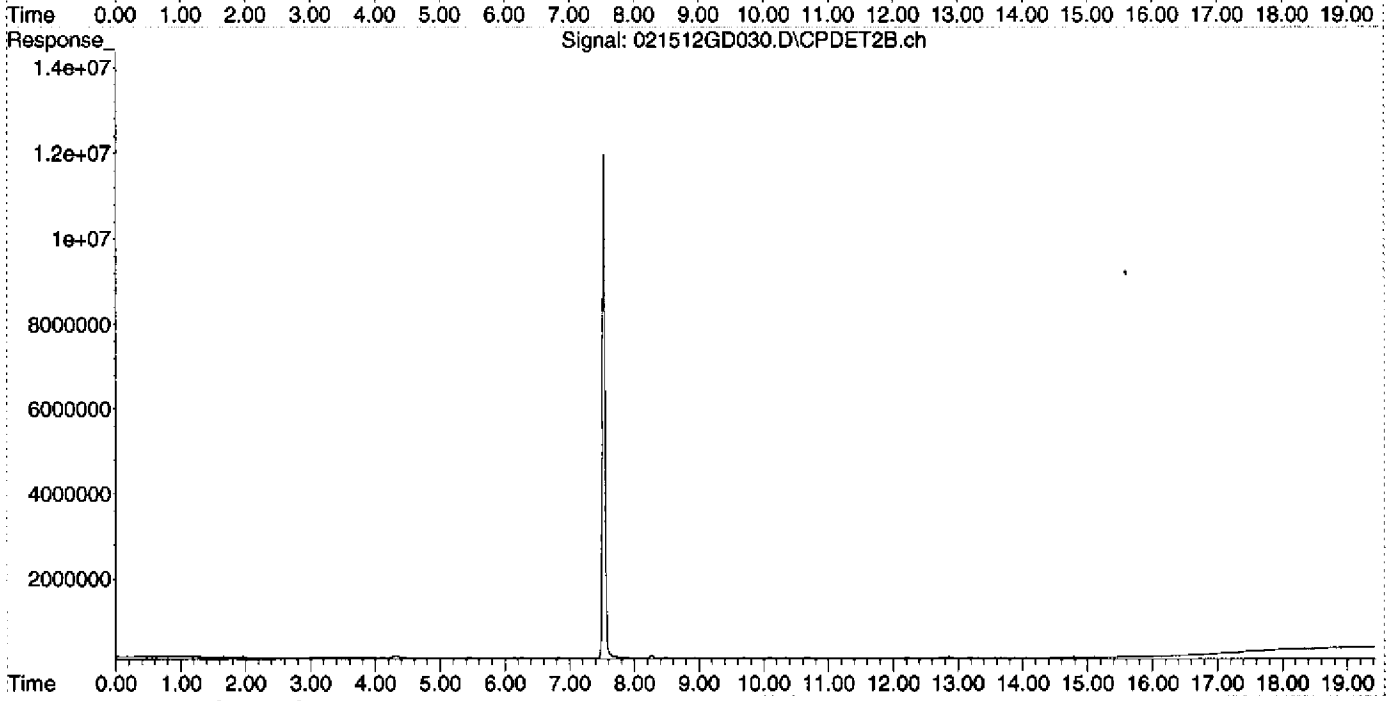
Quantitation Report (Not Reviewed)

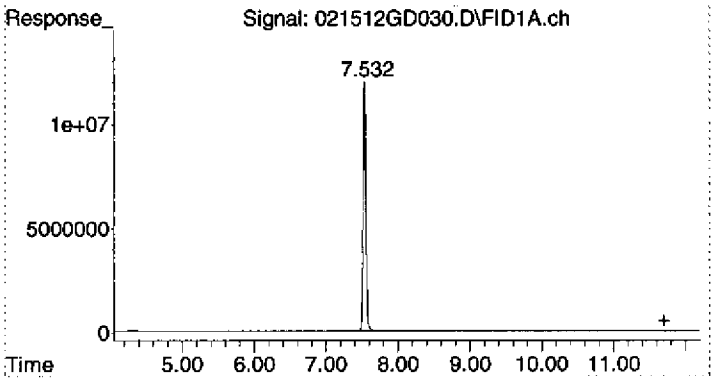
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD030.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 2:15
Operator : Ex.4-CBI
Sample : I2U2038-19
Misc : TB41,A, WATER
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:44 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	2191324
Conc:	0.98 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD031.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 2:43
Operator : Ex. 4 - CBI
Sample : 1202038-21
Misc : TB45,B, WATER
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.536	335959363	139.748 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 111.80%			
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1744895	0.784 ug/L

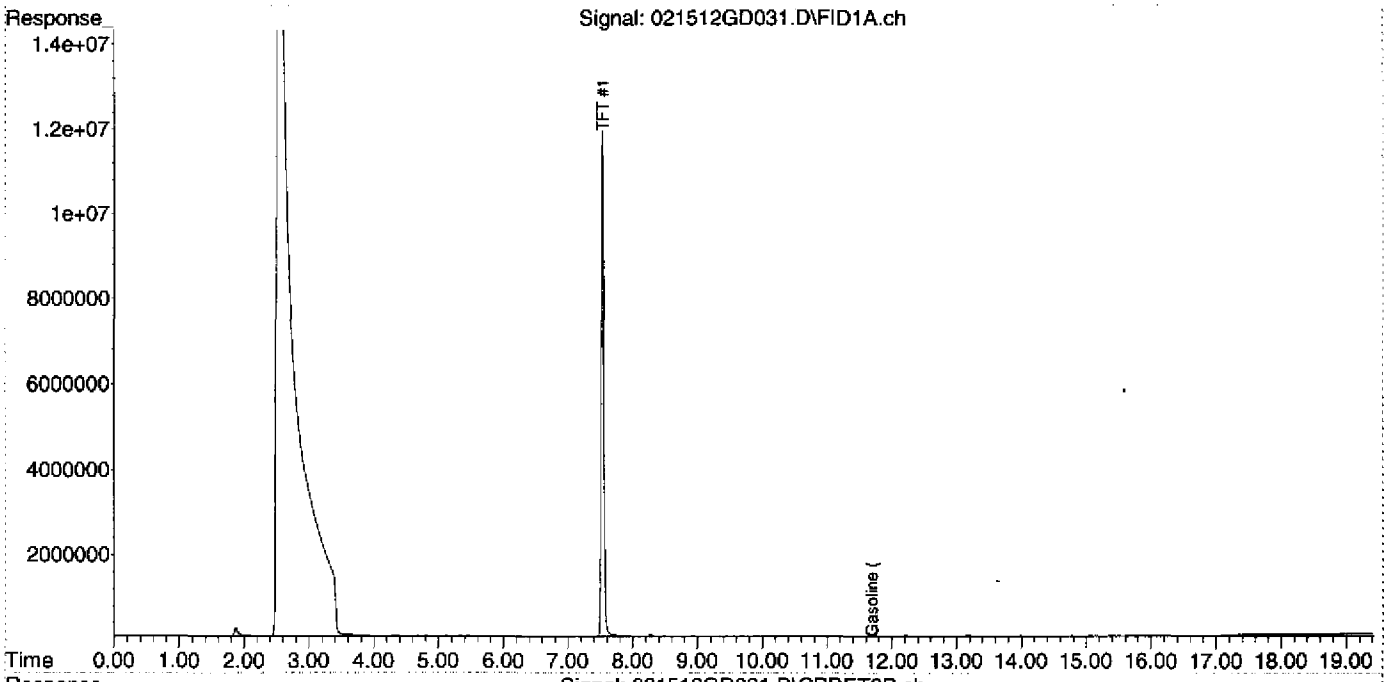
(f)=RT Delta > 1/2 Window (m)=manual int.

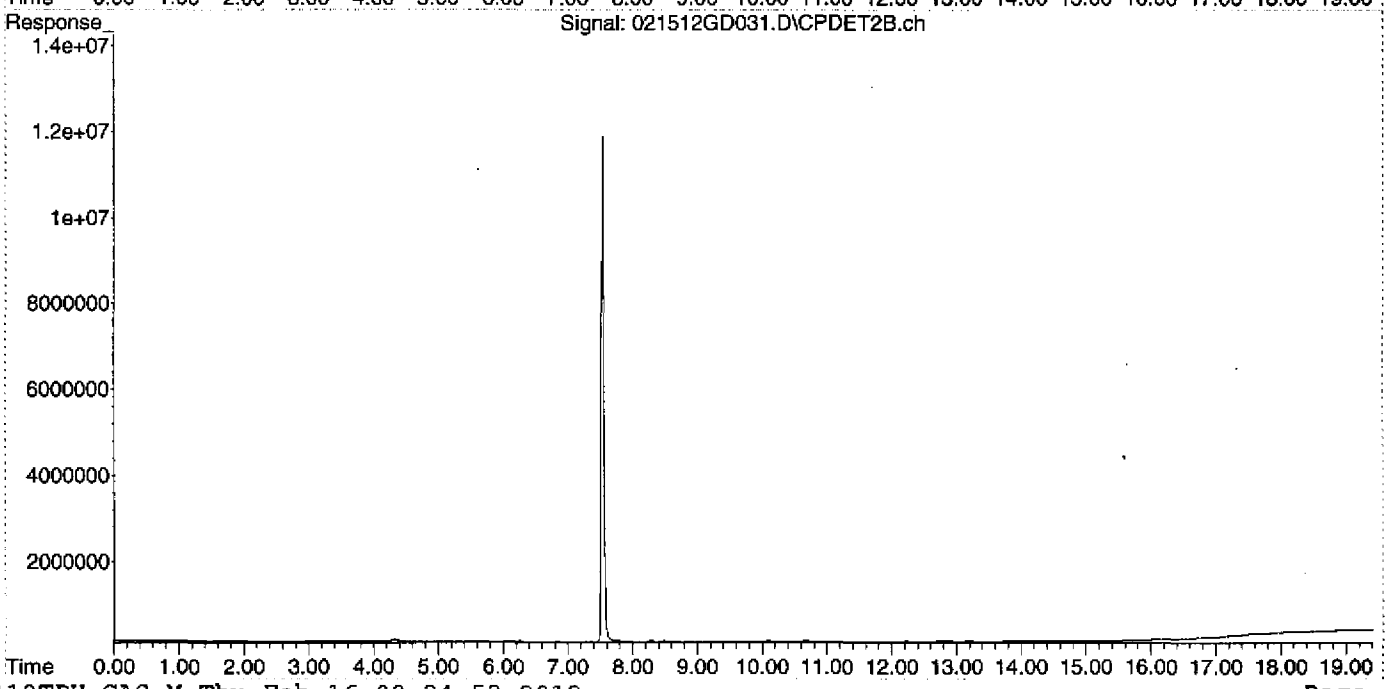
Quantitation Report (Not Reviewed)

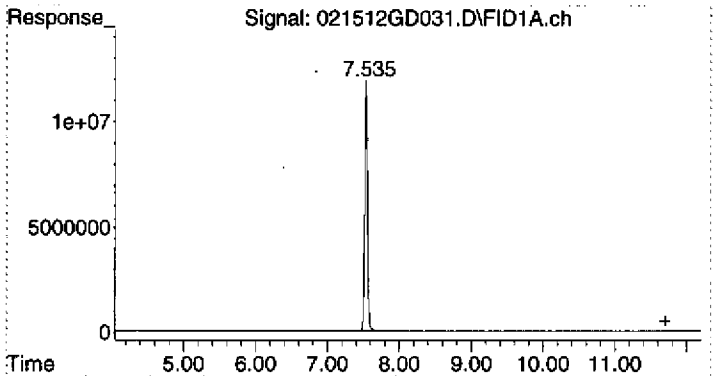
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD031.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 2:43
Operator : Ex. 4 - CBI
Sample : 1202038-21
Misc : TB45,B, WATER
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:49 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1744895
Conc:	0.78 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD032.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 3:11
Operator : Ex. 4 - CBI
Sample : 1202038-22
Misc : HW58,D, WATER
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:54 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S TFT #1	7.535	341997670	142.260	ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 113.81%				
Target Compounds				
1) HRM Gasoline (TPH) #1	0.000	0	N.D.	ug/L

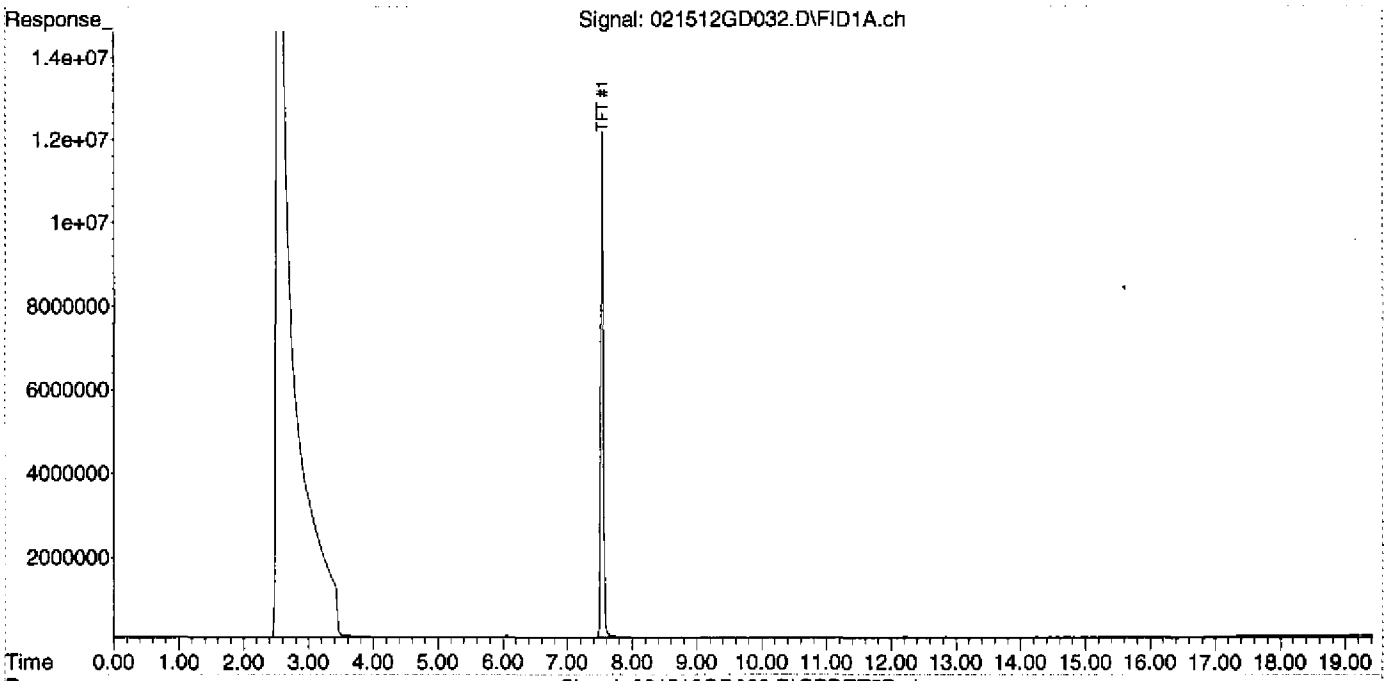
(f)=RT Delta > 1/2 Window (m)=manual int.

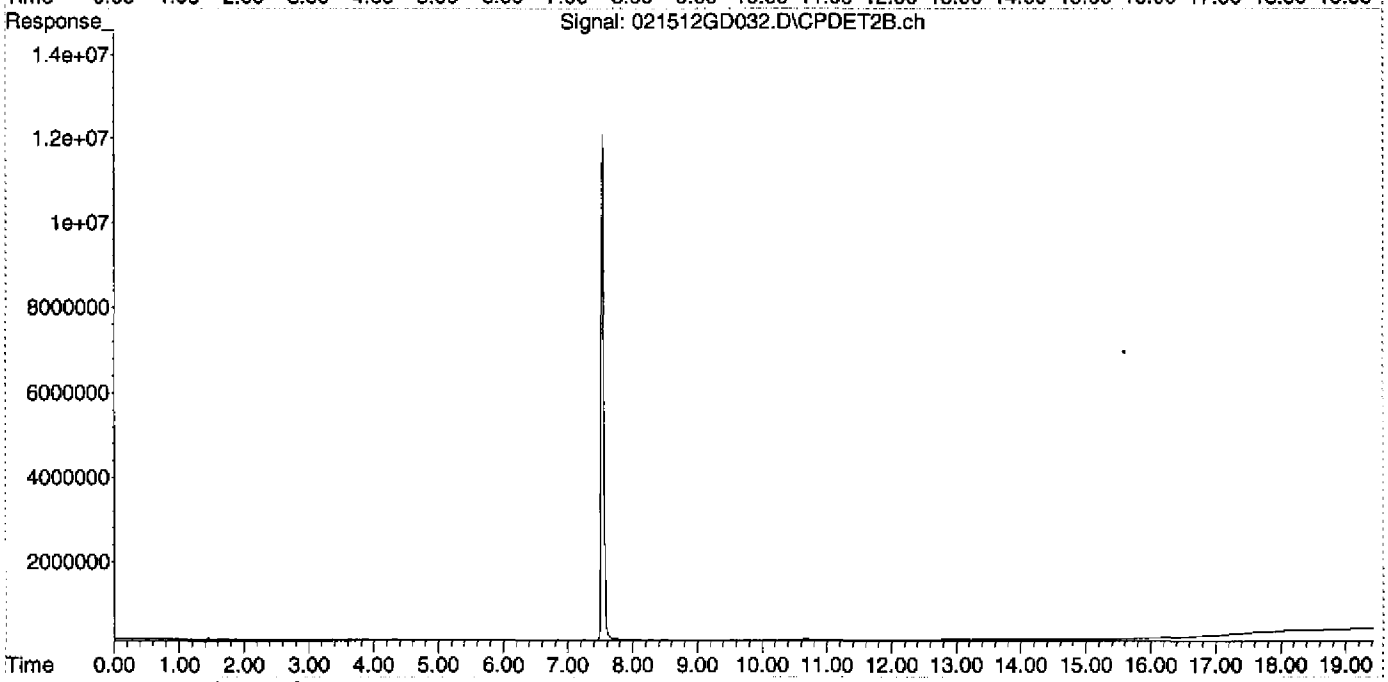
Quantitation Report (Not Reviewed)

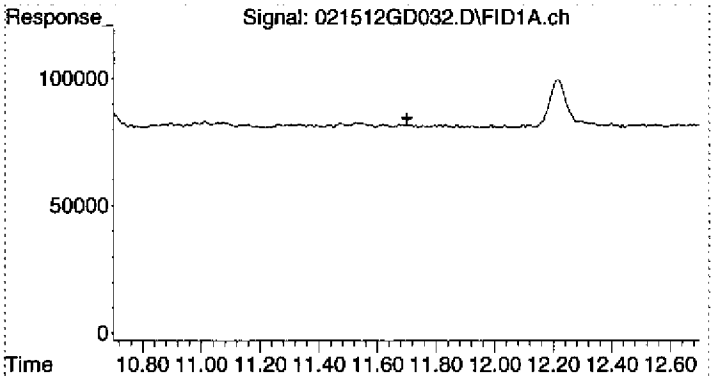
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD032.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 3:11
Operator : [redacted]
Sample : 1202038-22
Misc : HW58,D, WATER
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:54 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD033.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 3:40
Operator : Ex. 4 - CBI
Sample : 1202038-23
Misc : TB47,A, WATER
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:59 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.536	343364614	142.829 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	114.26%
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1744151	0.783 ug/L

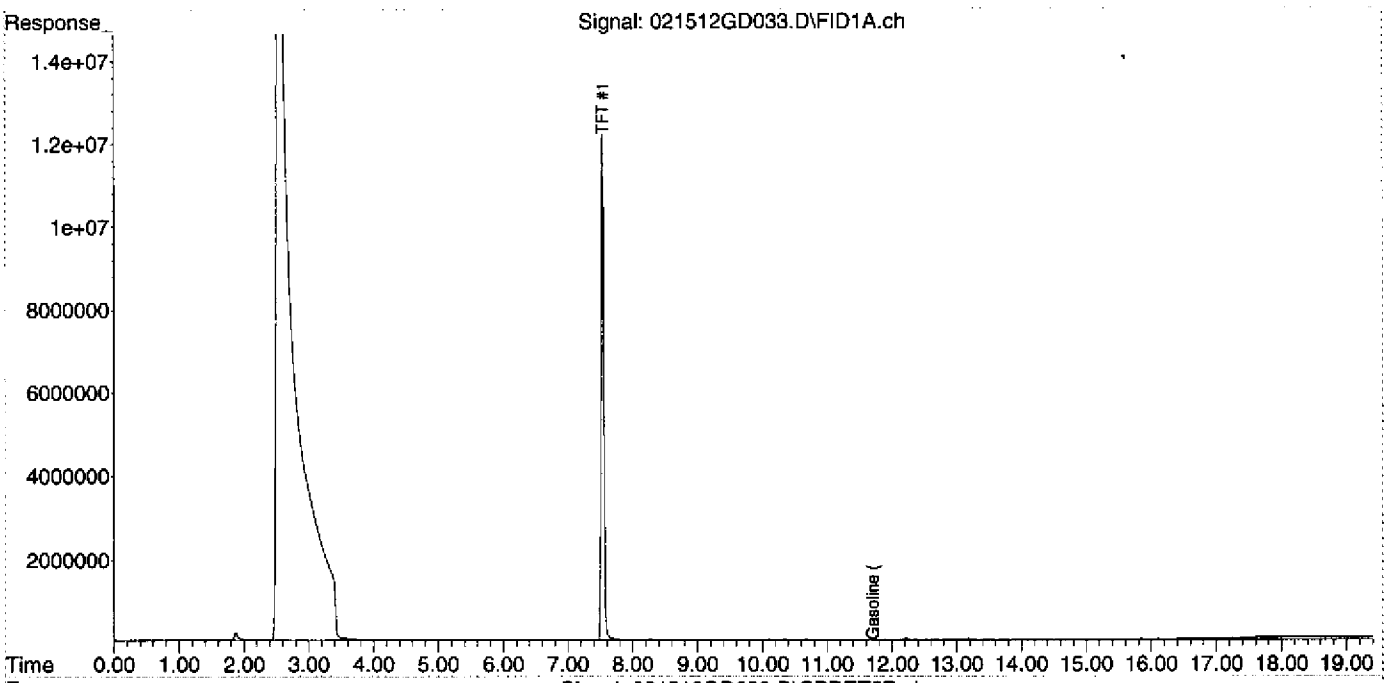
(f)=RT Delta > 1/2 Window (m)=manual int.

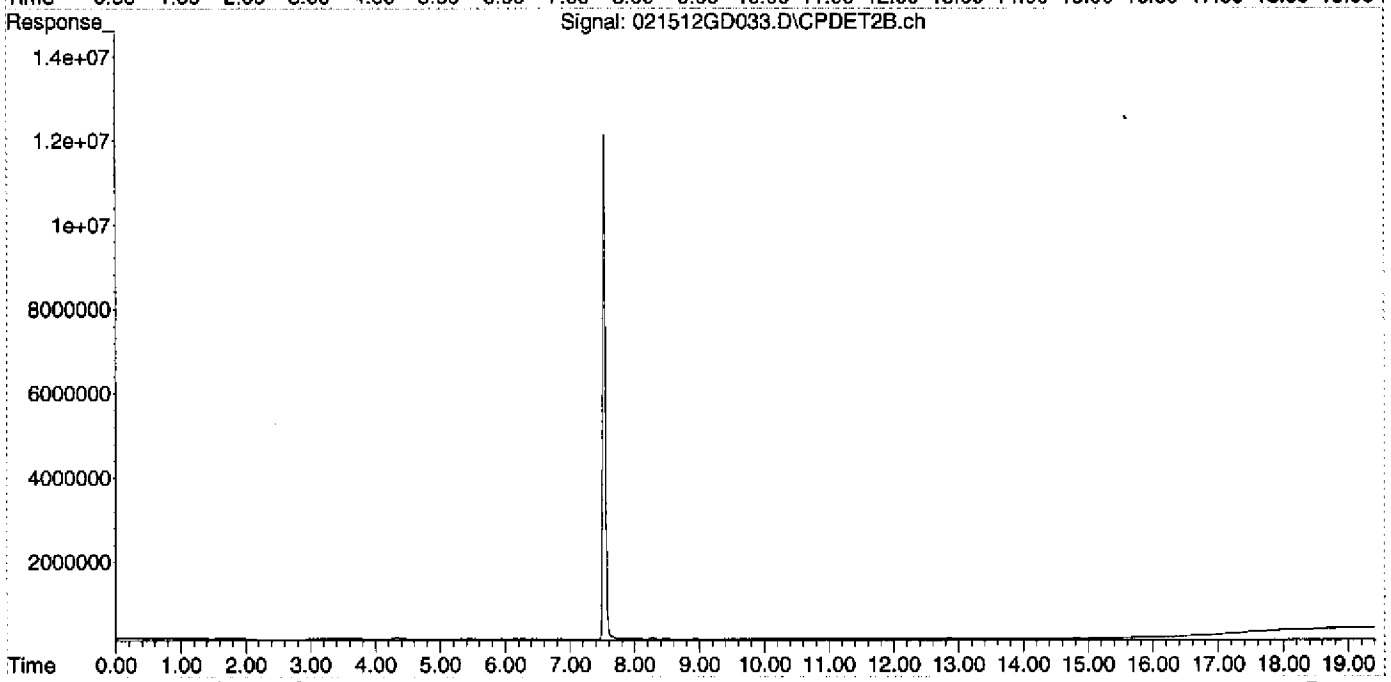
Quantitation Report (Not Reviewed)

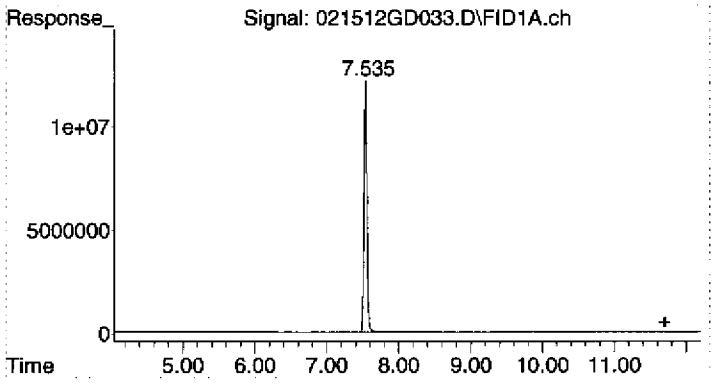
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD033.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 3:40
Operator : Ex. 4 - CBI
Sample : 1202038-23
Misc : TB47,A, WATER
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:24:59 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	1744151
Conc:	0.78 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD034.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 4:08
Operator : Ex. 4 - CBI
Sample : 1202038-20
Misc : HW57,G, WATER
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:04 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	343171789	142.748 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 114.20%	
Target Compounds			
1) HRM Gasoline (TPH) #1	0.000	0	N.D. ug/L

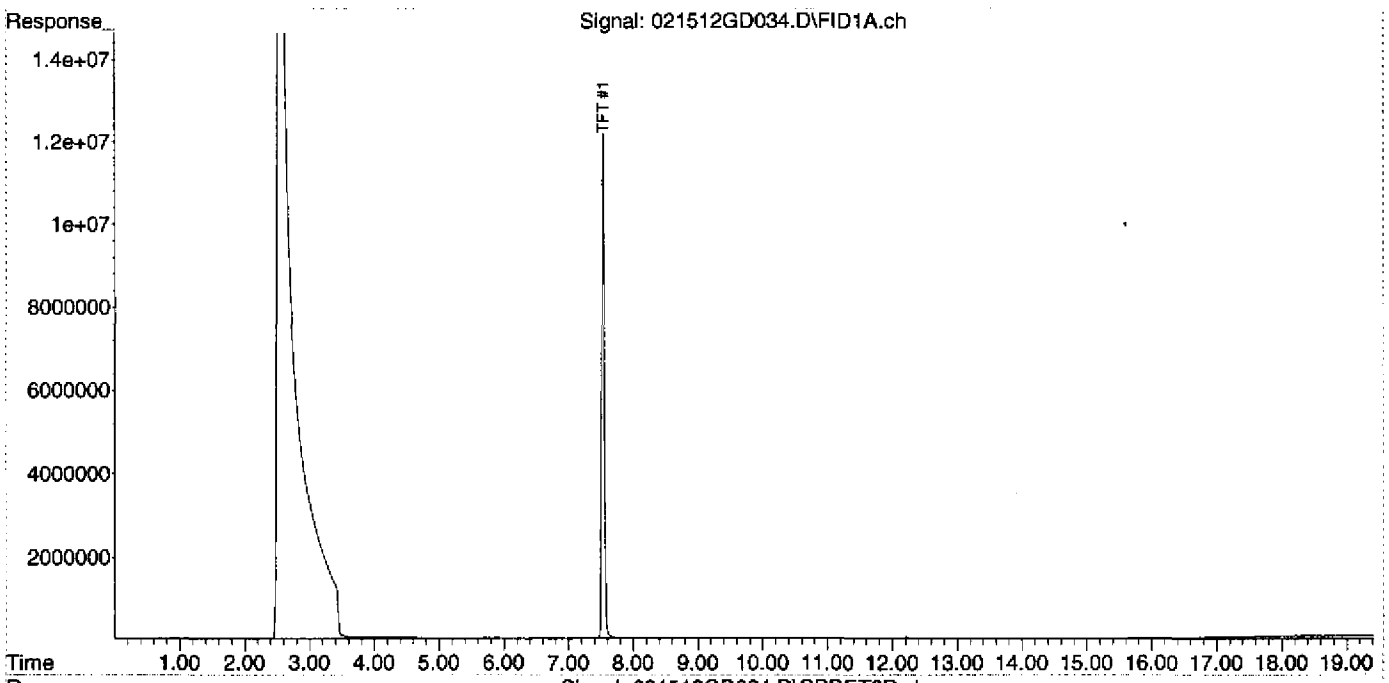
(f)=RT Delta > 1/2 Window (m)=manual int.

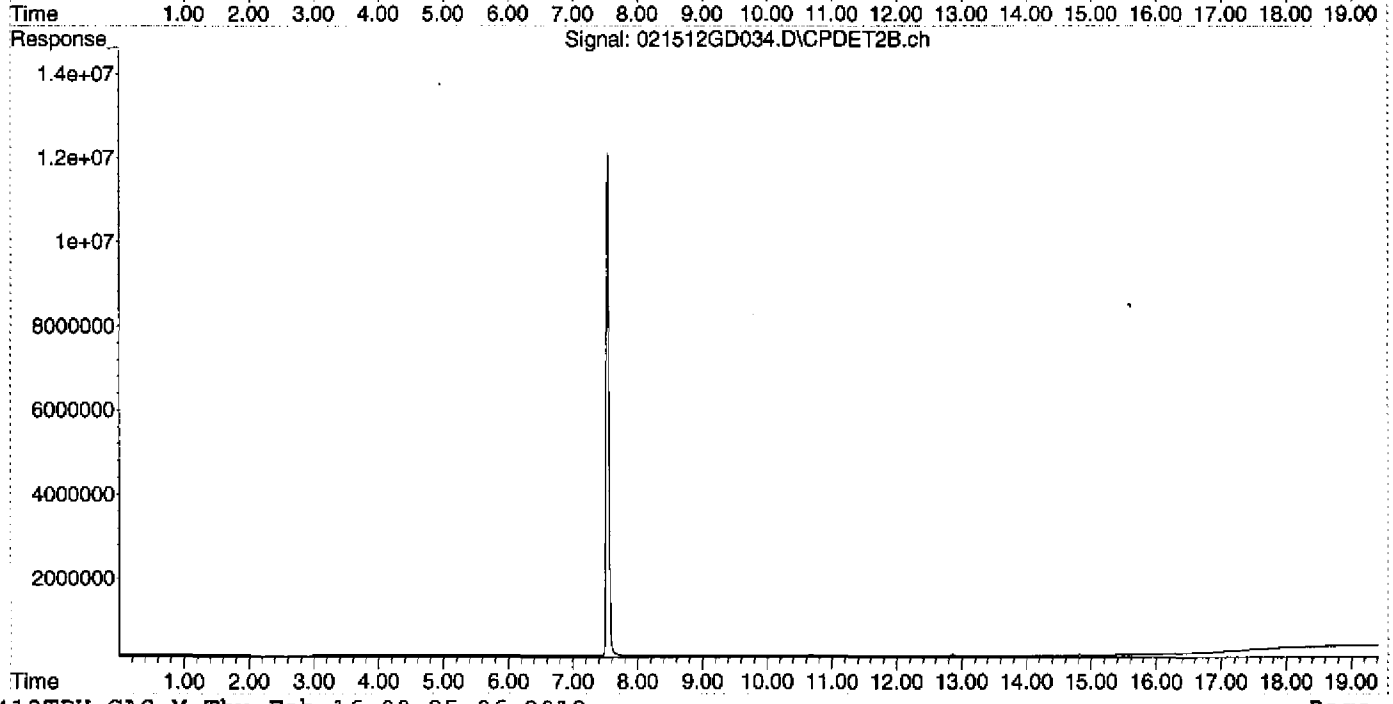
Quantitation Report (Not Reviewed)

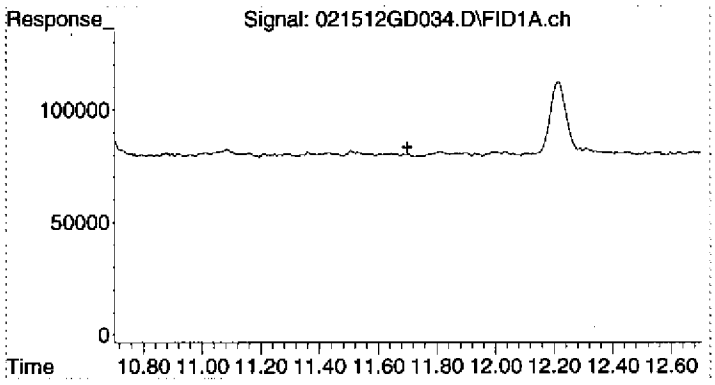
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD034.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 4:08
Operator : Ex.4-CBI
Sample : 1202038-20
Misc : HW57,G, WATER
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:04 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D
Signal #1 Info : FID
Signal #2 Phase: DB-624 75m
Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	0
Conc:	N.D.

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD035.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 4:37
Operator : EX.4-CBI
Sample : B2B0075-MS2
Misc : HW57,J, WATER SPIKE
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:08 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	337788783	140.509 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 112.41%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1010252363	453.746 ug/L

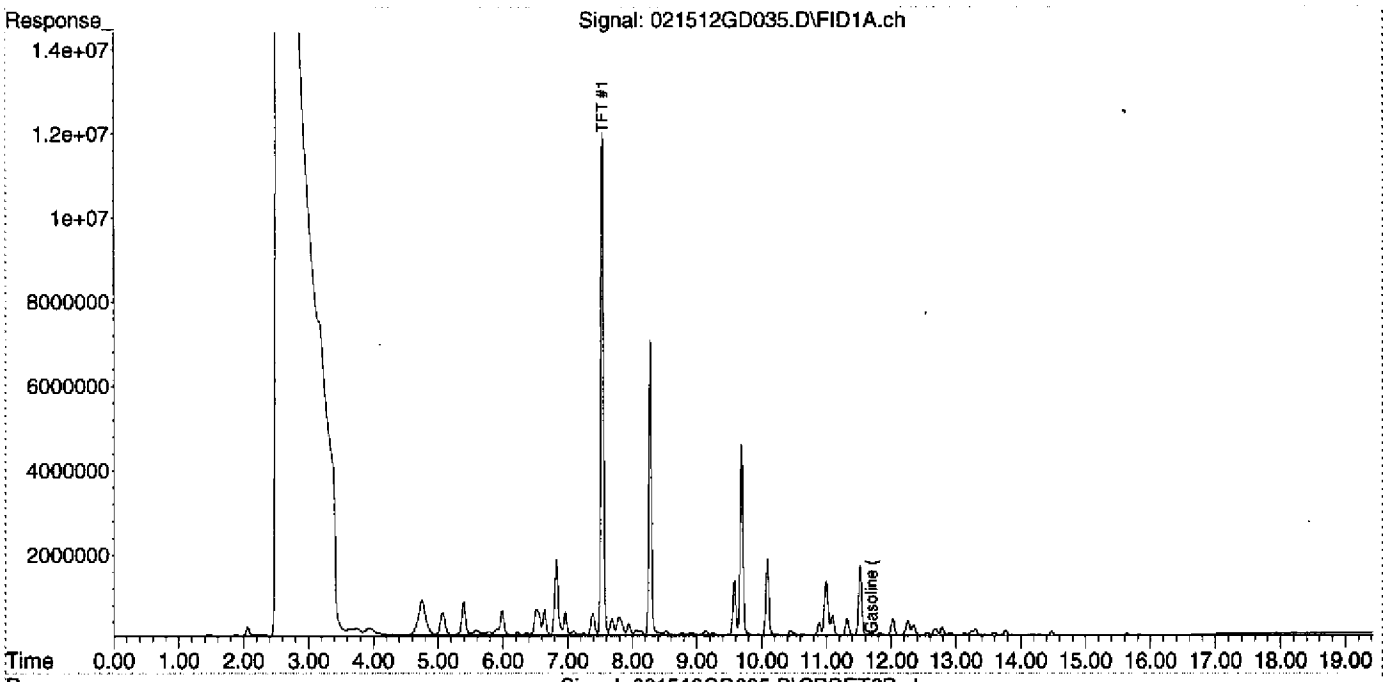
(f)=RT Delta > 1/2 Window (m)=manual int.

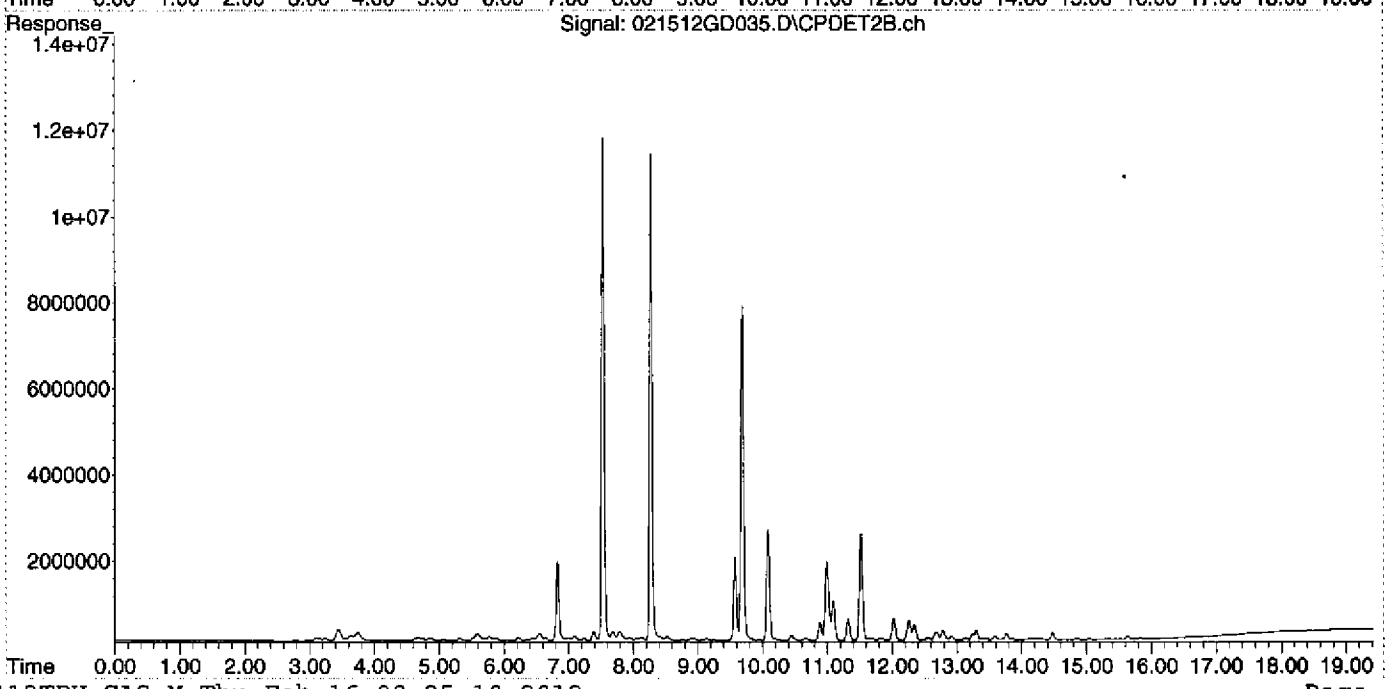
Quantitation Report (Not Reviewed)

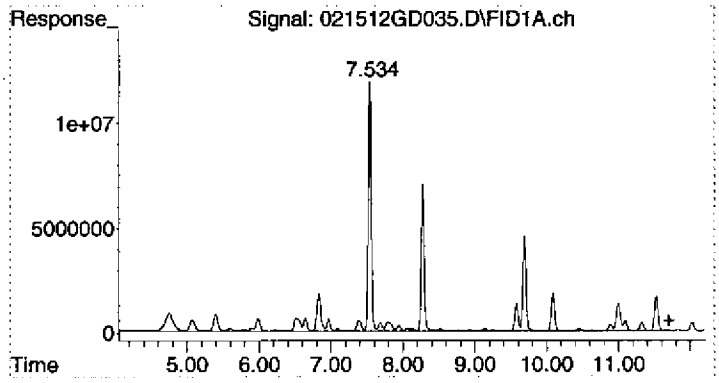
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD035.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 4:37
Operator : Ex. 4 - CBI
Sample : B2B0075-MS2
Misc : HW57,J, WATER SPIKE
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:08 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1010252363
Conc: 453.75 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD036.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 5:05
Operator : Ex. 4 - CBI
Sample : B2B0075-MSD2
Misc : HW57,I, WATER SPIKE
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	340335338	141.569 ug/L
Spiked Amount 125.000 Range 76 - 121		Recovery = 113.26%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1119344948	502.744 ug/L

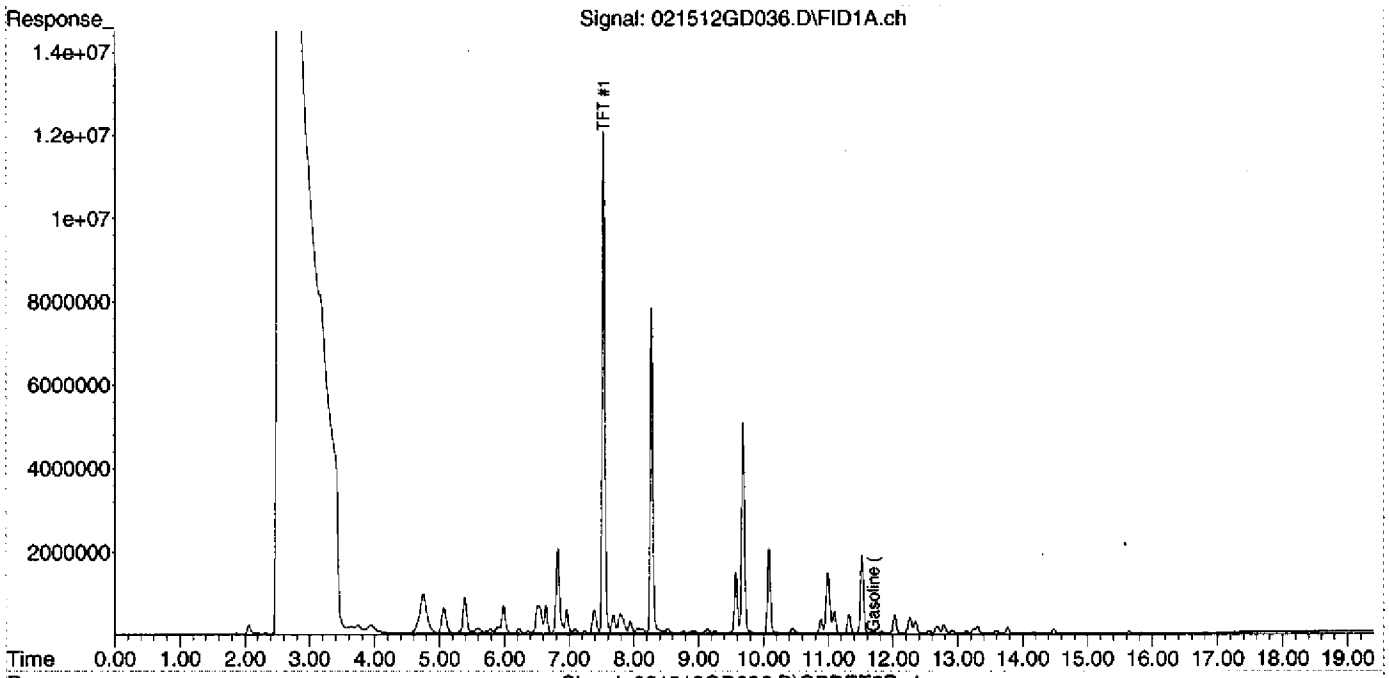
(f)=RT Delta > 1/2 Window (m)=manual int.

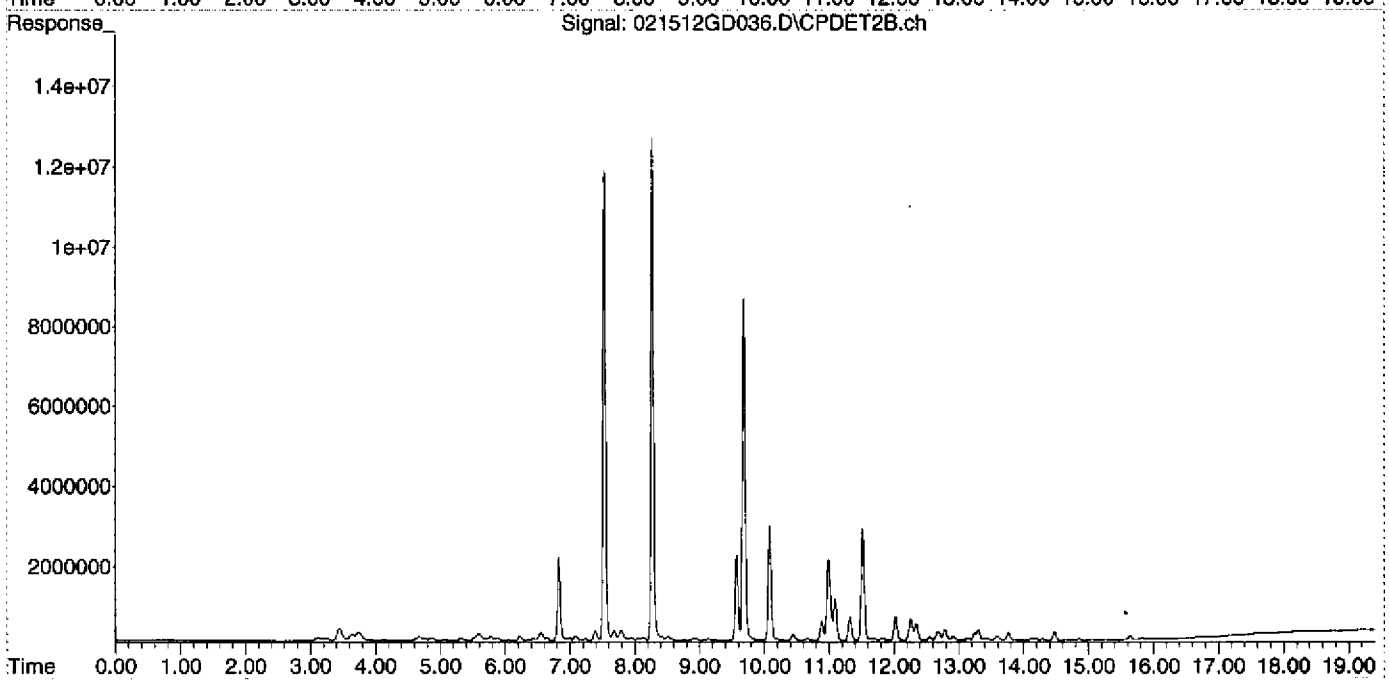
Quantitation Report (Not Reviewed)

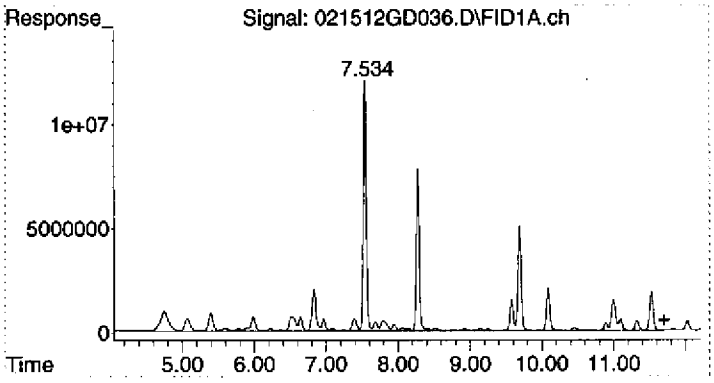
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD036.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 5:05
Operator : Ex. 4 - CBI
Sample : B2B0075-MSD2
Misc : HW57,I, WATER SPIKE
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:12 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1119344948
Conc: 502.74 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD037.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 5:34
Operator : Ex.4-CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:17 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.536	340147382	141.490 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 113.19%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	366960	0.165 ug/L

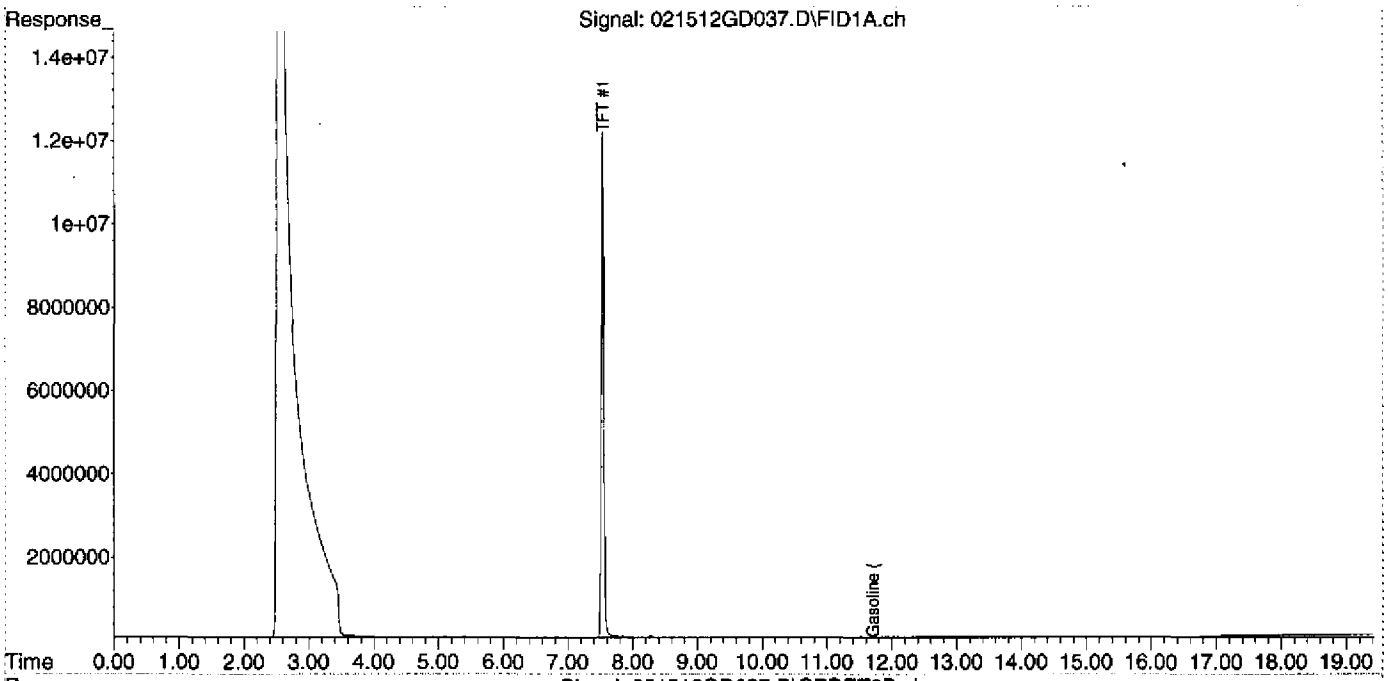
(f)=RT Delta > 1/2 Window (m)=manual int.

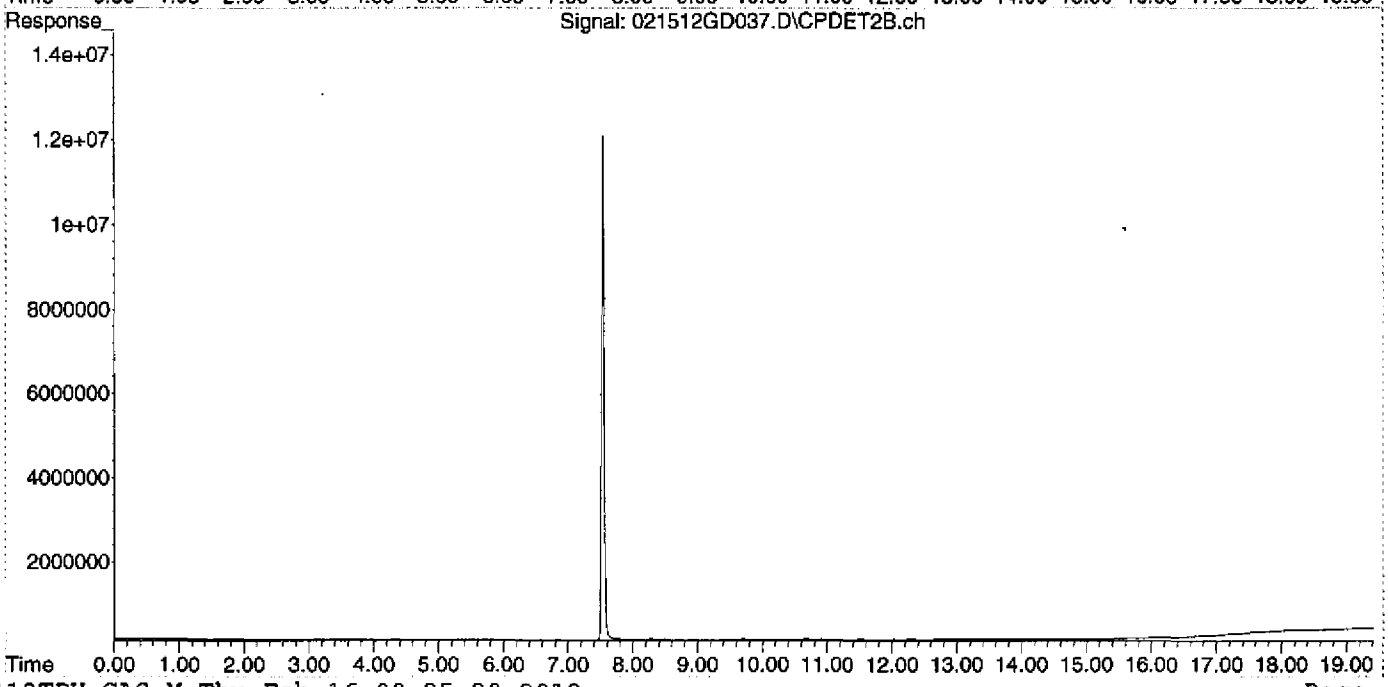
Quantitation Report (Not Reviewed)

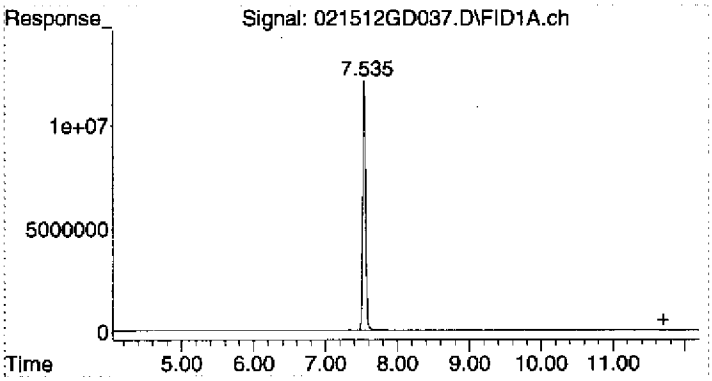
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD037.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 5:34
Operator : EX 4 CBI
Sample : BLANK
Misc : BLANK, WATER
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:17 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.:	11.700 min
Delta R.T.:	0.000 min
Response:	366960
Conc:	0.16 ug/L

Evaluate Continuing Calibration Report

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD038.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 6:02
Operator : Ex. 4 - CBI
Sample : 2020051-CCV4
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:22 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.03min
Max. RRF Dev : 15% Max. Rel. Area : 130%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 HRM Gasoline (TPH) #1	2.226	2.068 E6	7.1	88	0.00
2 S TFT #1	2.404	2.723 E6	-13.3	114	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD038.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 6:02
Operator : Ex. 4 - CBI
Sample : 2020051-CCV4
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:22 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.535	340351817	141.575 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 113.26%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	1034102860	464.458 ug/L

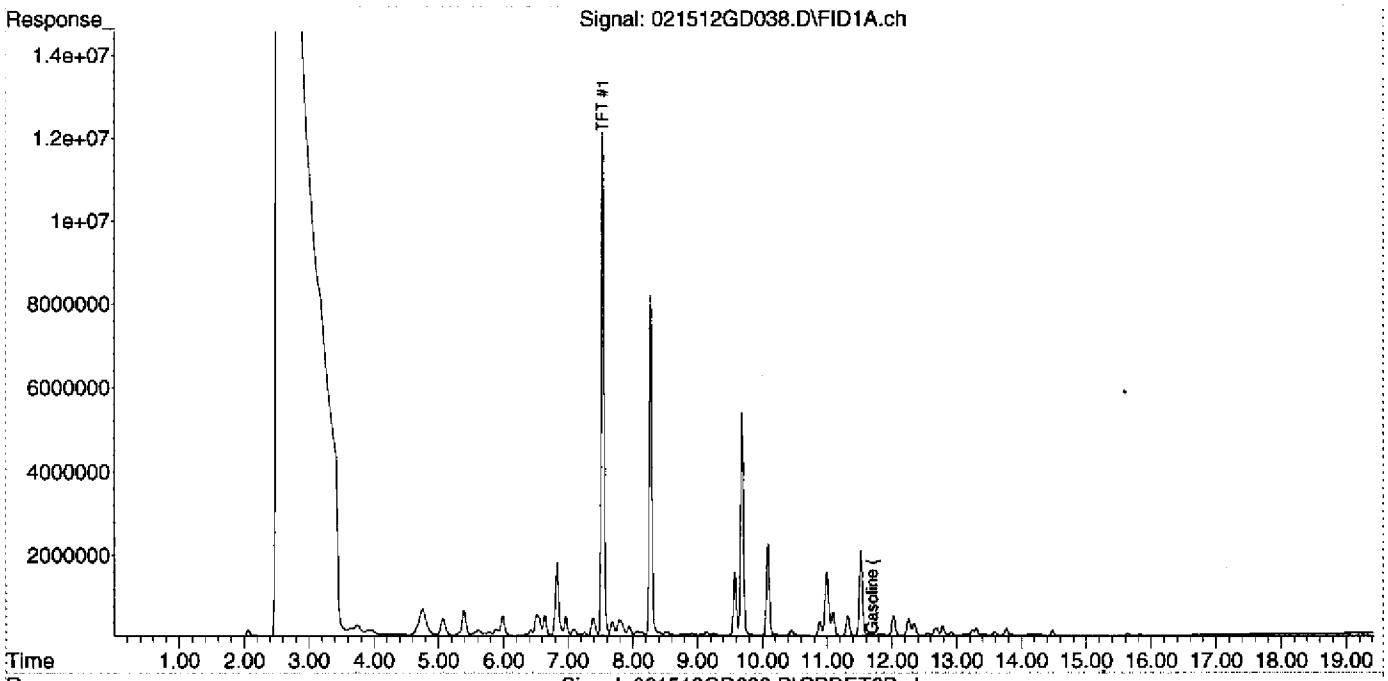
(f)=RT Delta > 1/2 Window (m)=manual int.

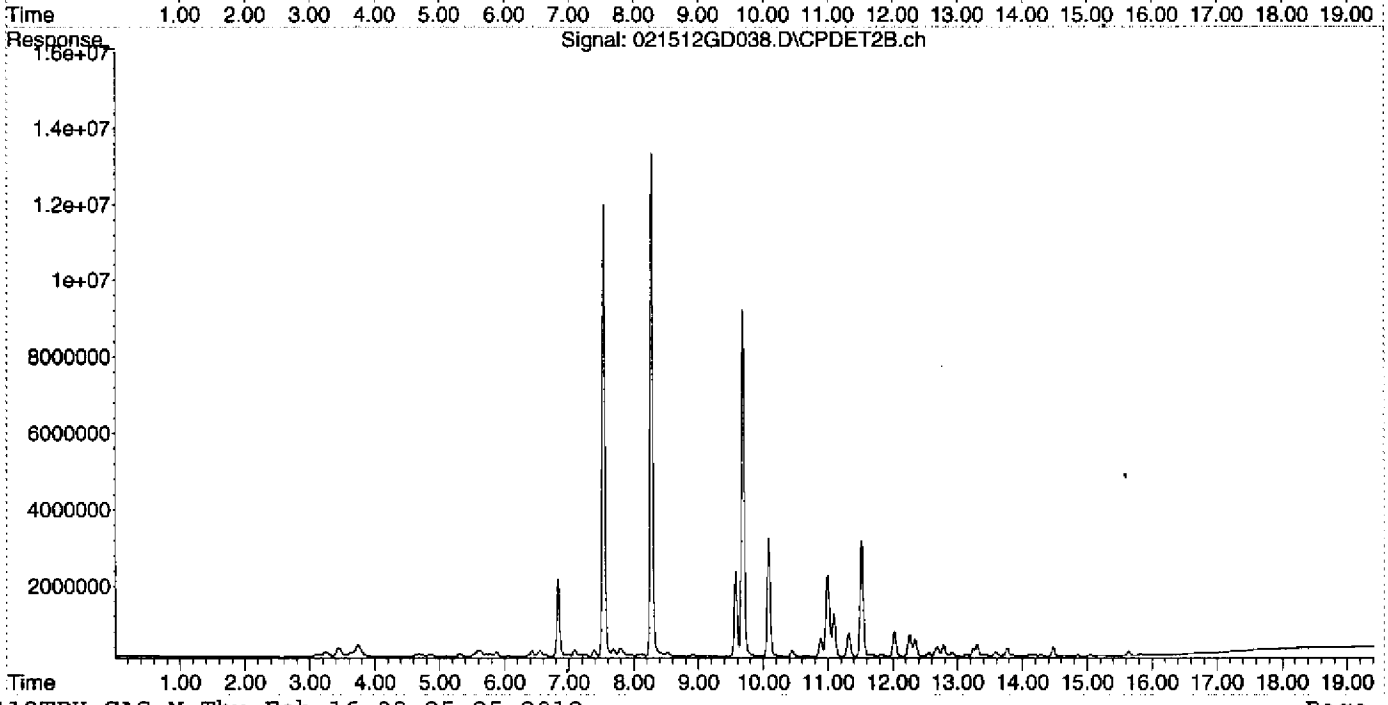
Quantitation Report (Not Reviewed)

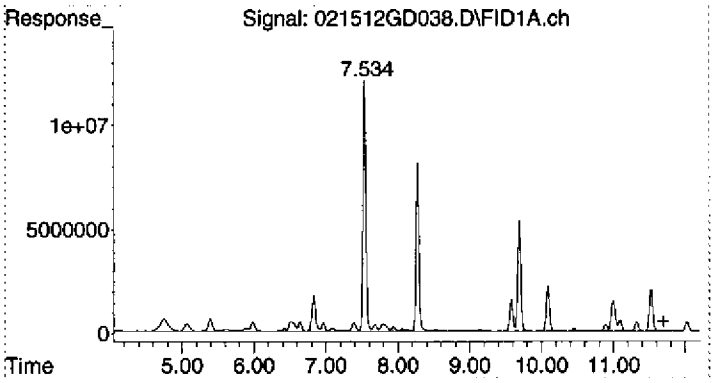
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD038.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 6:02
Operator : Ex. 4 - CBI
Sample : 2020051-CCV4
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:22 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 1034102860
Conc: 464.46 ug/L

Quantitation Report (Not Reviewed)

Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD039.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 6:30
Operator : Ex. 4 - CBI
Sample : 2020051-CCV5
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:27 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	7.533	343241515	142.777 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 114.22%	
Target Compounds			
1) HRM Gasoline (TPH) #1	11.700	960848706	431.557 ug/L

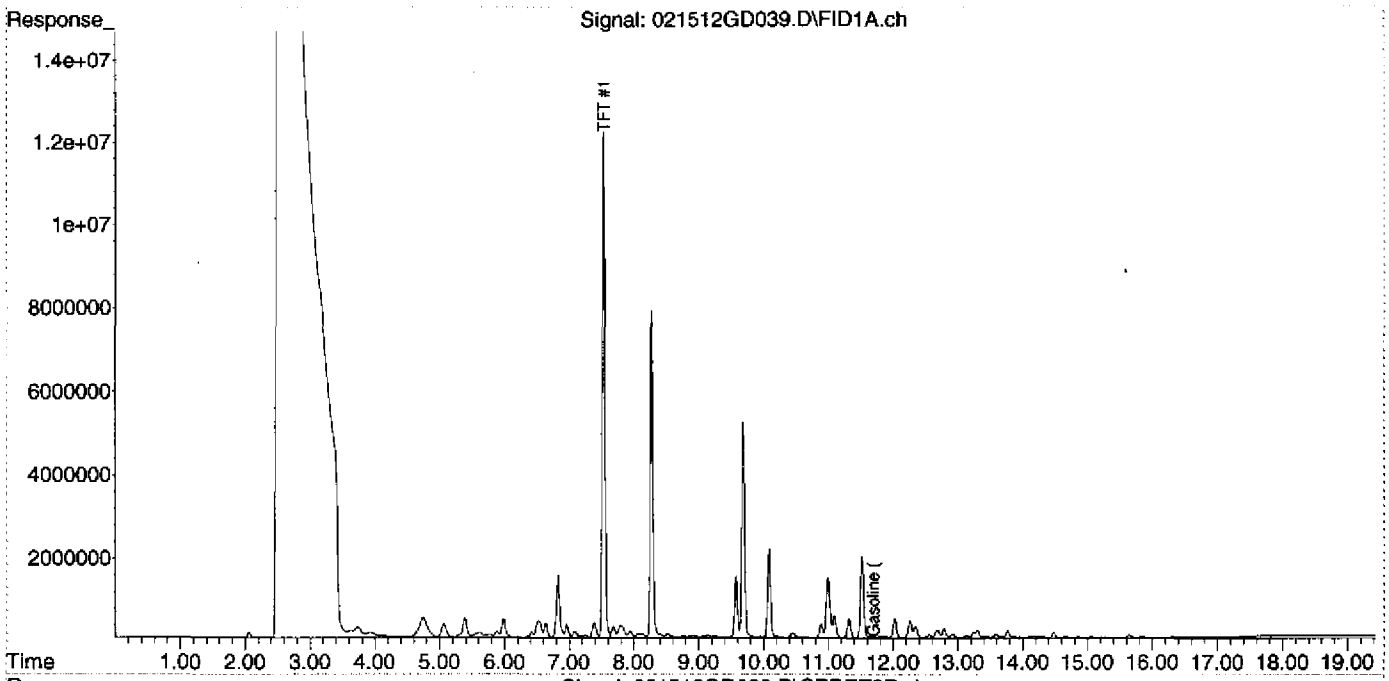
(f)=RT Delta > 1/2 Window (m)=manual int.

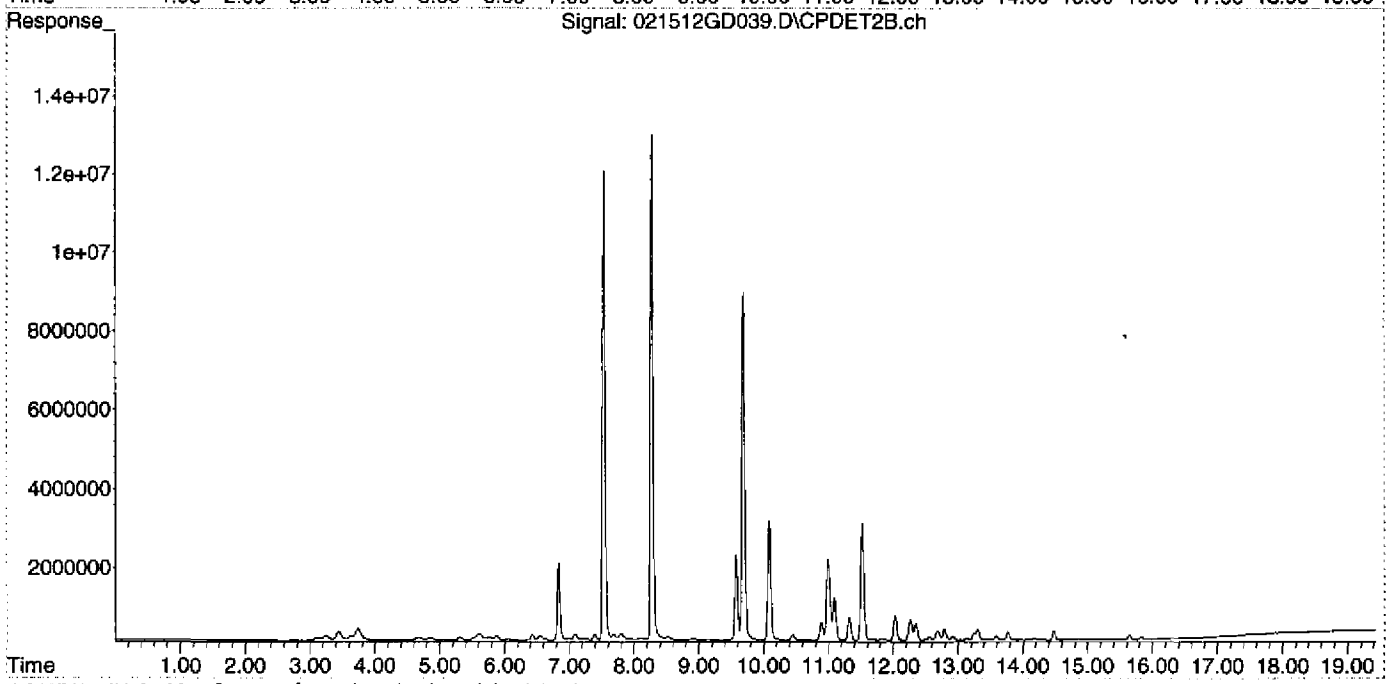
Quantitation Report (Not Reviewed)

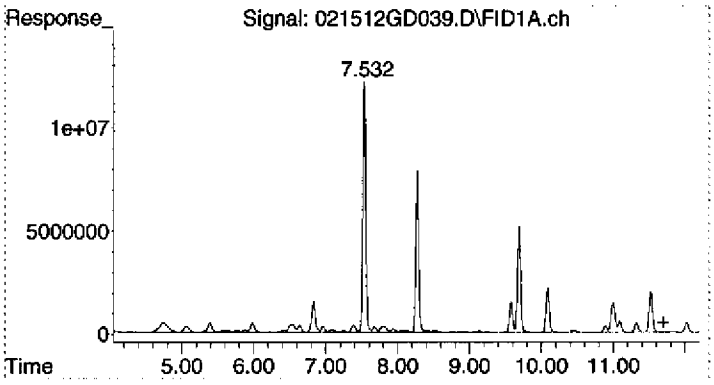
Data Path : D:\MSDCHEM\2012\data\021512DGAS\
Data File : 021512GD039.D
Signal(s) : Signal #1: FID1A.ch Signal #2: CPDET2B.ch
Acq On : 16 Feb 2012 6:30
Operator : Ex.4-CBI
Sample : 2020051-CCV5
Misc : 500ug/L, 1J17001, WATER
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 16 08:25:27 2012
Quant Method : C:\MSDCHEM\2\METHODS\012412TPH_GAS.M
Quant Title : GC TPH Method
QLast Update : Wed Jan 25 10:49:01 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 mL
Signal #1 Phase : AG5975D Signal #2 Phase: DB-624 75m
Signal #1 Info : FID Signal #2 Info : PID







#1 Gasoline (TPH) #1

R.T.: 11.700 min
Delta R.T.: 0.000 min
Response: 960848706
Conc: 431.56 ug/L

STANDARDS RECORDS

Analytical Standard Record

EPA Region 9 Laboratory

0C16025

Description:	GAS:Unleaded Gasoline Composite S	**Expires:**	04/17/12
Standard Type:	Analyte Spike	**Prepared:**	03/16/10
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	11/07/11 16:02 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A066488

Cat # 30205, Lot # A066488; bar code AU002204, open 10/17/11 by Ex. 4 - CBI

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	50000

Analytical Standard Record

EPA Region 9 Laboratory

0D22008

Description:	GAS ARCH: Alpha, Alpha, Alpha-Tr	**Expires:**	06/30/18
Standard Type:	Surrogate Spike	**Prepared:**	04/22/10
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.55	**Department:**	Extractables
Vials:	1	**Last Edit:**	04/22/10 11:29 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A067627

Cat. # 30083, Lot# A0067627; bar code #AU002333

Analyte	CAS Number	Concentration (ppm)
a,a,a-Trifluorotoluene	98-08-8	10000

Analytical Standard Record

EPA Region 9 Laboratory

0F03014

Description:	GAS: Gasoline, Stock (QCS)	**Expires:**	08/31/12
Standard Type:	Other Solution	**Prepared:**	06/03/10
Solvent:	Solvent MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	06/03/10 09:24 by
Vendor:	Supelco	**Lot Numb**	LB69826

Ex. 4 - CBI

Supelco 47516-U Lot LB69826; bar code AU002502

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	20000

Analytical Standard Record

EPA Region 9 Laboratory

1B16005

Description:	DRO:Turpentine, Stock	**Expires:**	11/21/18
Standard Type:	Other Solution	**Prepared:**	02/16/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	02/16/11 12:36 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	A9020099

Cat.# HS-004S-40X, Lot # A9020099, bar code AU003356 (2)

Analyte	CAS Number	Concentration (ppm)
Turpentine	8006-64-2	20000

00212

Analytical Standard Record

EPA Region 9 Laboratory

1C22022

Description:	DRO:Diesel Fuel #2 Composite Stanc	**Expires:**	09/30/16
Standard Type:	Analyte Spike	**Prepared:**	03/22/11
Solvent:	DCM	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	03/22/11 11:18 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A069478

Restek Cat. No. 31258 Lot#: A06947 Bar Code : AU003440

Analyte	CAS Number	Concentration (ppm)
TPH as Diesel	68334-30-5	50000
TPH - Diesel Range Organics	TPH-DRO	50000

Analytical Standard Record

EPA Region 9 Laboratory

1I23004

Description:	GRO:Stoddard Solvent, Stock	**Expires:**	04/26/20
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:18 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	B0100498

Cat.# HS-005S-40X, LOT# B0100498; AU003885 B

Analyte	CAS Number	Concentration (ppm)
Stoddard solvent	8052-41-3	20000

Analytical Standard Record

EPA Region 9 Laboratory

1123006

Description:	GAS:GAS Methylpentane,Trimethylb	**Expires:**	11/17/12
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	METHANOL	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:32 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numbı**	B3100066-2B

Cat.# S-10760-2.5X, Lot # B3100066-2B; bar code # AU003881 A

Analyte	CAS Number	Concentration (ppm)
2-Methylpentane	107-83-5	4997
1,2,4-Trimethylbenzene	95-63-6	4937

Analytical Standard Record

EPA Region 9 Laboratory

1I23008

Description:	GASGRO:Mineral Spirits, Stock	**Expires:**	05/09/18
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:12 by
Vendor:	AccuStandard	**Lot Numb.**	B8050069

Cat.# HS-002S-40X, Lot # B8050069; bar code # AU003886 A

Analyte	CAS Number	Concentration (ppm)
Mineral spirits	64475-85-0	20000

Analytical Standard Record

EPA Region 9 Laboratory

1I23010

Description:	GASDRO:Naphtha, Stock	**Expires:**	09/01/21
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:21 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb:**	211091015

Cat.# HS-003S-40X, Lot # 211091015 bar code #AU003883 A

Analyte	CAS Number	Concentration (ppm)
Naptha	8030-30-6	20002

Analytical Standard Record

EPA Region 9 Laboratory

1I23012

Description:	GASDRO:Lacquer Thinner, Stock	**Expires:**	04/30/19
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:23 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	B9040308

Cat.# HS-001S-40X, Lot # B9040308; bar code #AU003884 A

Analyte	CAS Number	Concentration (ppm)
Lacquer thinner	64742-89-8	20000

Analytical Standard Record

EPA Region 9 Laboratory

1J17001

Description:	GAS:GAS101711 1000 ug/mL (Arch	**Expires:**	04/17/12
Standard Type:	Analyte Spike	**Prepared:**	10/17/11
Solvent:	MeOH Lot # DD471	**Prepared By**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	5	**Last Edit:**	11/07/11 16:02 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A066488

200 uL in 10mL of MeOH (1H11012)

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	1000

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0C16025	GAS:Unleaded Gasoline Composit	03/16/10	** Vendor **	04/17/12	11/07/11 16:02 by Ex. 4 - CBI	0.2

Analytical Standard Record

EPA Region 9 Laboratory

2A10001

Description:	GAS_011012-SCV 100 ug/L	**Expires:**	07/10/12
Standard Type:	Reference Material	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 08:51 by Ex. 4 - CBI
Vendor:	Supelco	**Lot Numb**	LB50361

50uL/10 mL MeOH

Analyte	CAS Number	Concentration (ppm)	SRM Control Limits
TPH as Gasoline	8006-61-9	100	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0F03014	GAS: Gasoline, Stock (QCS)	06/03/10	** Vendor **	08/31/12	06/03/10 09:24 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10002

Description:	GAS: GAS RET TIME STD	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 08:50 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	B3100066-2B

Analyte	CAS Number	Concentration (ppm)
2-Methylpentane	107-83-5	99.9
1,2,4-Trimethylbenzene	95-63-6	98.7

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
II23006	GAS:GAS Methylpentane,Trimeth	09/23/11	** Vendor **	11/17/12	09/23/11 10:32 by Ex. 4 - CBI	0.2

Analytical Standard Record

EPA Region 9 Laboratory

2A10005

Description:	GAS: Naphtha_01/10/12 100 ug/mL	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:20 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	211091015

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Naptha	8030-30-6	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1123010	GASDRO:Naphtha, Stock	09/23/11	** Vendor **	09/01/21	09/23/11 10:21 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10006

Description:	GAS: Turpentine_01/10/12 100 ug/m	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:25 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	045-361

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Turpentine	8006-64-2	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1B16005	DRO:Turpentine, Stock	02/16/11	** Vendor **	11/21/18	02/16/11 12:36 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10007

Description:	GAS: Mineral Spirits_01/10/12 100 ι	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:28 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	B8050069

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Mineral spirits	64475-85-0	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1I23008	GASGRO:Mineral Spirits, Stock	09/23/11	** Vendor **	05/09/18	09/23/11 10:12 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10009

Description:	GAS: Lacquer Thinner_01/10/12 10(	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:32 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb**	125-049

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Lacquer thinner	64742-89-8	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1I23012	GASDRO:Lacquer Thinner, Stock	09/23/11	** Vendor **	04/30/19	09/23/11 10:23 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10011

Description:	GAS: Stoddard Solvent_01/10/12 10	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:35 by Ex. 4 - CBI
Vendor:	AccuStandard	**Lot Numb:**	B0100498

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Stoddard solvent	8052-41-3	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1123004	GRO:Stoddard Solvent, Stock	09/23/11	** Vendor **	04/26/20	09/23/11 10:18 by Ex. 4 - CBI	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10012

Description:	GAS: Diesel 100 ug/mL	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 10:05 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A069478

20 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
TPH as Diesel	68334-30-5	100
TPH - Diesel Range Organics	TPH-DRO	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1C22022	DRO:Diesel Fuel #2 Composite St	03/22/11	** Vendor **	09/30/16	03/22/11 11:18 by Ex. 4 - CBI	0.02

Analytical Standard Record

EPA Region 9 Laboratory

2A24003

Description:	GAS SURR ARCH 625ppm (01/24/1	**Expires:**	06/24/12
Standard Type:	Surrogate Spike	**Prepared:**	01/24/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Ex. 4 - CBI
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/24/12 10:27 by Ex. 4 - CBI
Vendor:	Restek	**Lot Numb**	A067627

MeOH Lot# DB939

Analyte	CAS Number	Concentration (ppm)
a,a,a-Trifluorotoluene	98-08-8	625

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0D22008	GAS ARCH: Alpha, Alpha, Alpha-	04/22/10	** Vendor **	06/30/18	04/22/10 11:29 by Ex. 4 - CBI	0.625