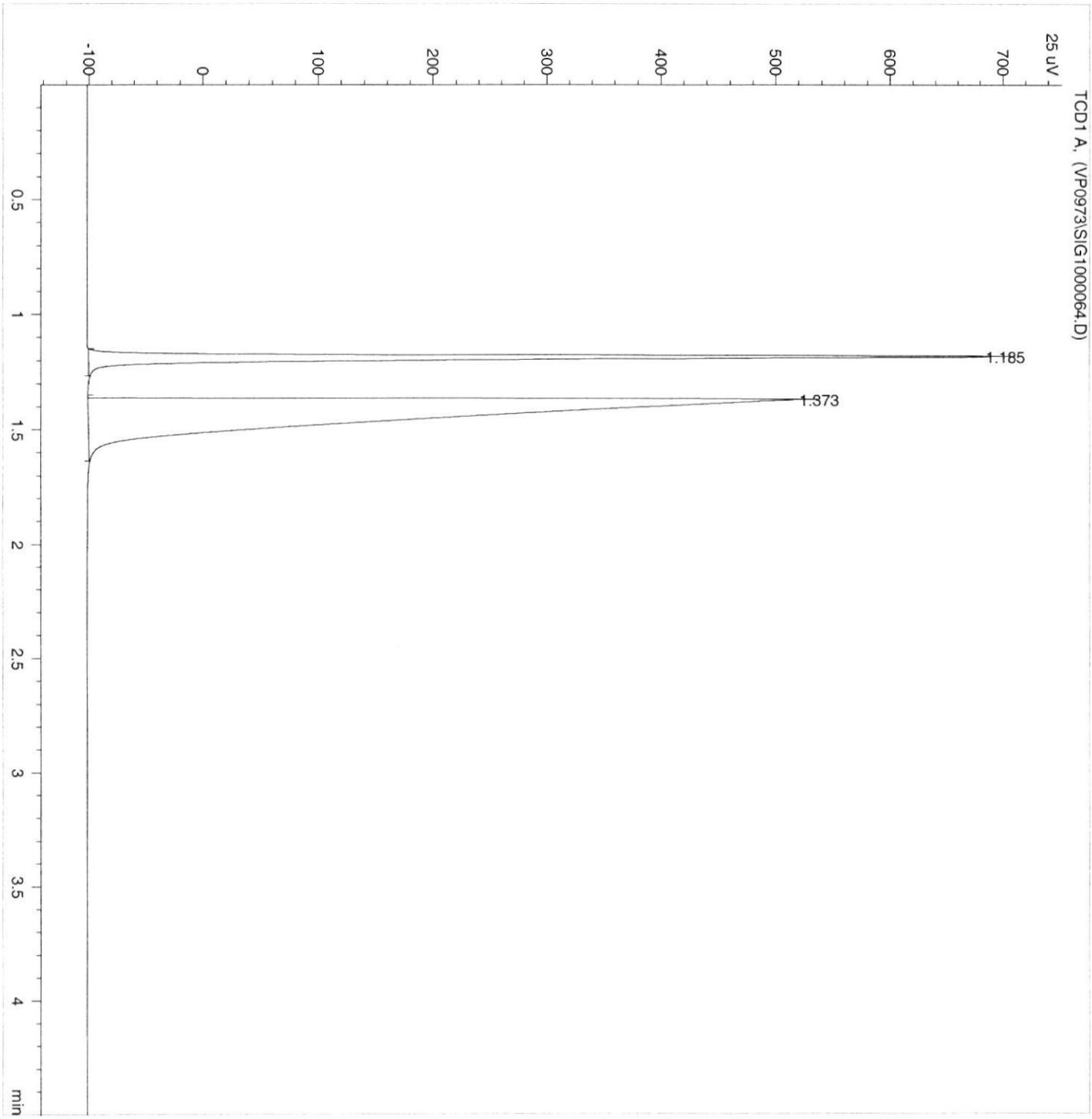
Data File C:\CHEM32\2\DATA\VP0973\SIG1000064.D
Sample Name: Laboratory Air Blank

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:11:05 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

==========



RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000064.D
Sample Name: Laboratory Air Blank

```
==================================================================
Acq. Operator    : Bob Bohn
Acq. Instrument  : VALVE4974                        Location :   -
Injection Date   : 12/14/2011 7:11:05 AM                 Inj :   1
                                                 Inj Volume : Manually
Acq. Method      : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed     : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method  : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed     : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info      : Hydrogen analysis method

==================================================================

==================================================================
                      External Standard Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      Wednesday, November 30, 2011 10:30:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime  Type     Area      Amt/Area    Amount   Grp   Name
 [min]         [25 uV*s]                 [%]
-------|------|----------|----------|----------|--|------------------
  1.040            -          -          -         Hydrogen

Totals :                                4408.38000


1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==================================================================
==================================================================
                         Area Percent Report
==================================================================

Sorted By              :      Signal
Calib. Data Modified   :      Wednesday, November 30, 2011 10:30:55 AM
Multiplier             :      1.0000
Dilution               :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs


Signal 1: TCD1 A,

Peak RetTime  Type   Width     Area      Area    Name
  #   [min]          [min]  [25 uV*s]      %
----|-------|------|-------|----------|--------|---------------------
   1   1.040         0.0000    0.00000  0.00000 Hydrogen

Totals :                       0.00000   0.0000


1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```


RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000064.D
Sample Name: Laboratory Air Blank

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:11:05 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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Calibration Curves

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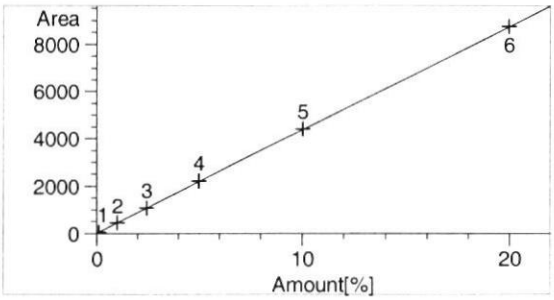


Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

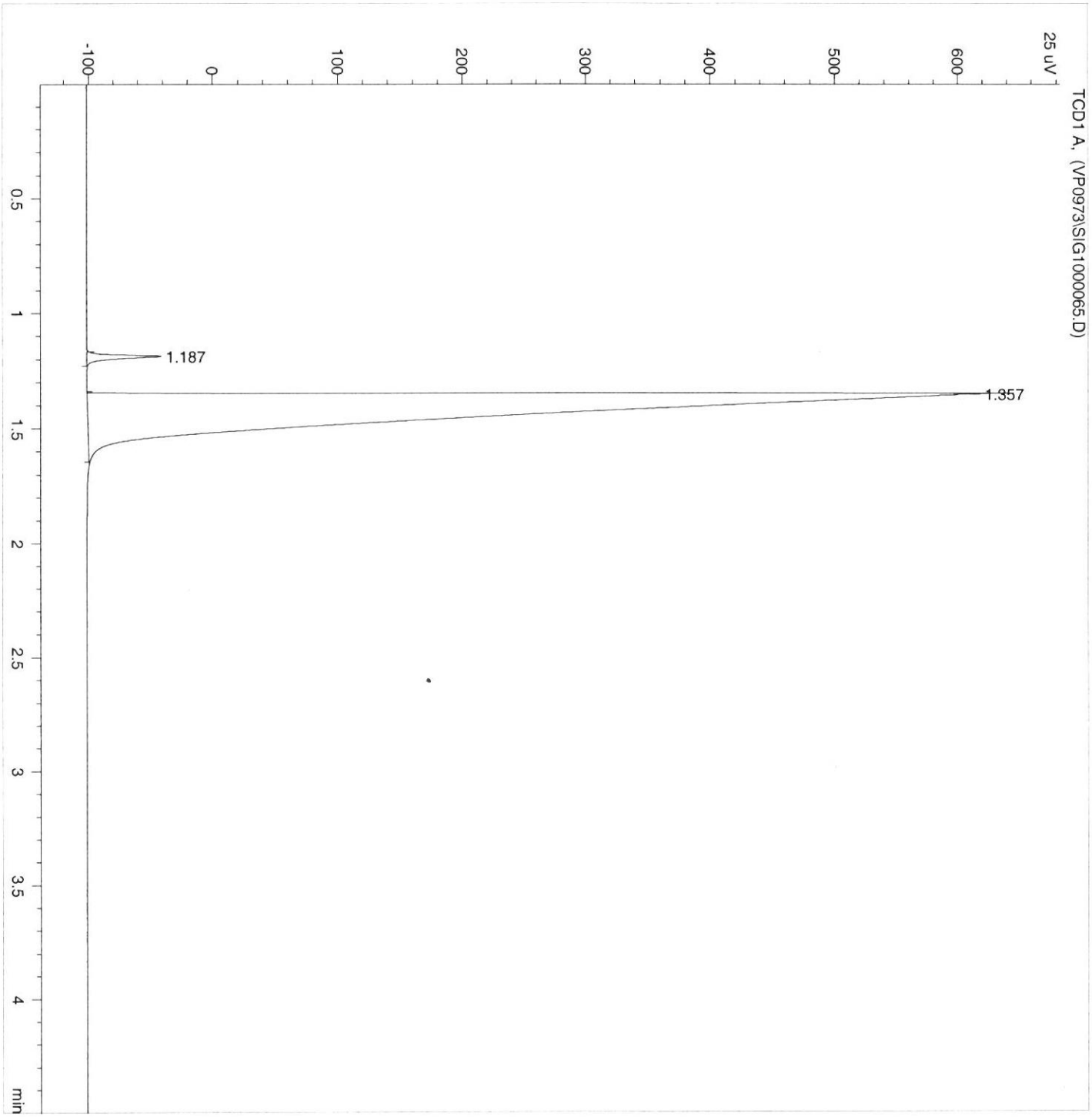
RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000065.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:16:43 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

==========



RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000065.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:16:43 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.040		-	-	-		Hydrogen

Totals : 4267.05437

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [25 uV*s]	Area %	Name
1	1.040		0.0000	0.00000	0.00000	Hydrogen

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000065.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:16:43 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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Calibration Curves

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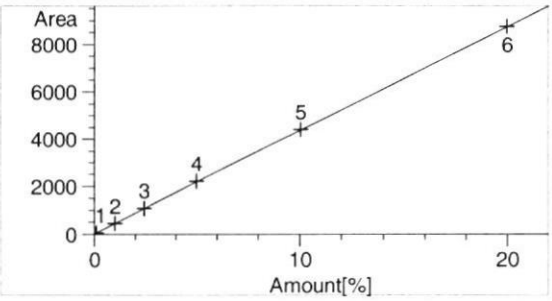

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000066.D
Sample Name: H2 CC Std 2.46% M-L (1053)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:22:19 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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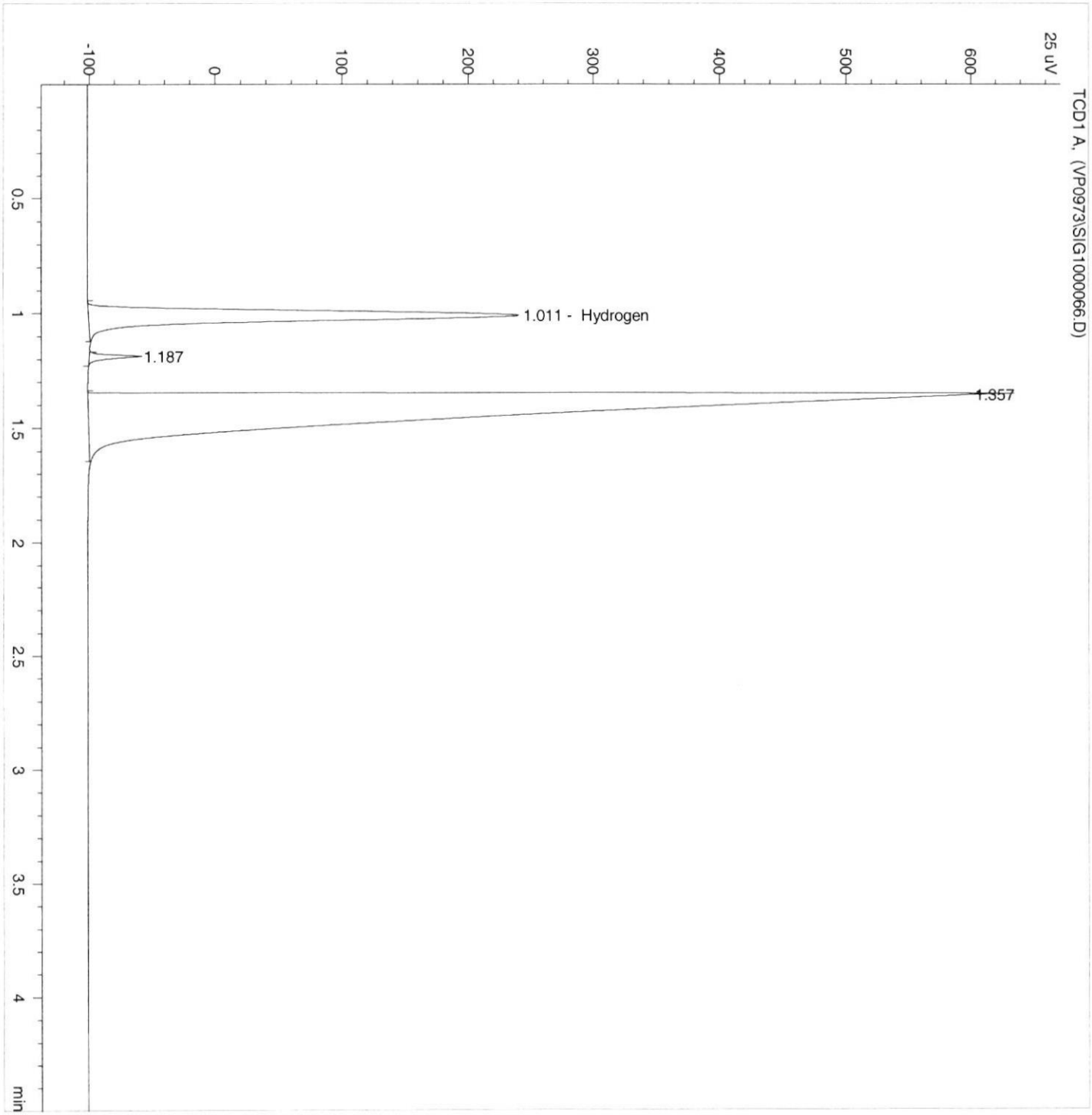

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000066.D
Sample Name: H2 CC Std 2.46% M-L (1053)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:22:19 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.011	BB	1019.77582	2.26460e-3	2.30938		Hydrogen

Totals : 4268.46468

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Calibration Curves

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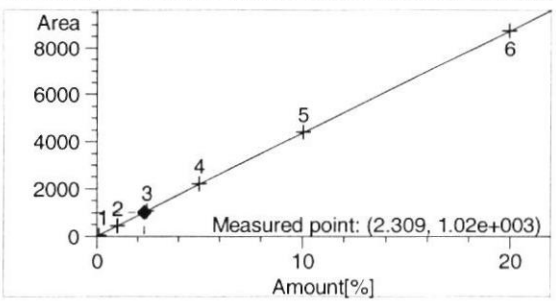

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000067.D
Sample Name: H2 QC Std 9.98% Linw lot# 706224 (1172)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:28:27 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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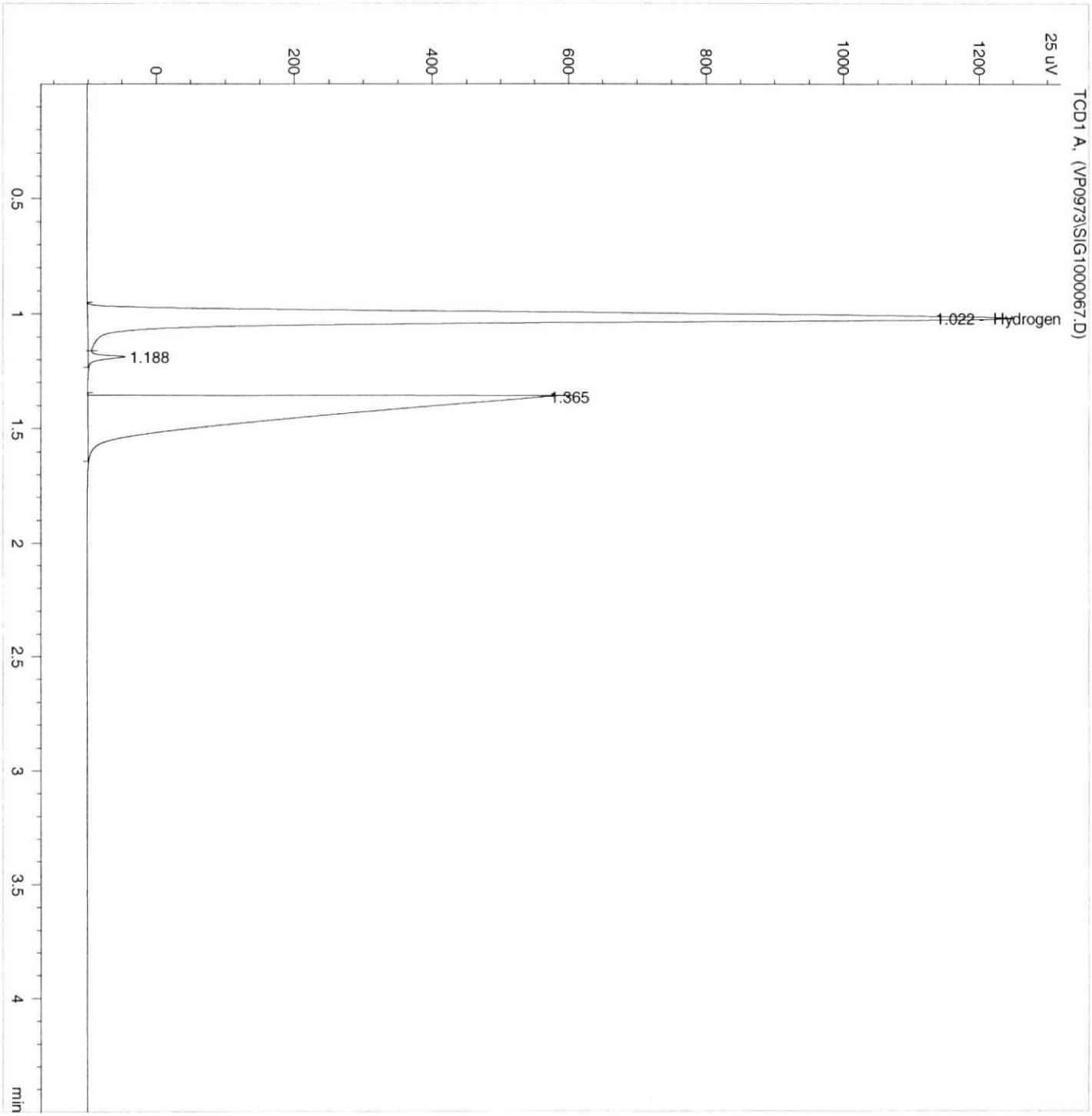

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000067.D
Sample Name: H2 QC Std 9.98% Linw lot# 706224 (1172)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:28:27 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.022	BV	4065.57568	2.27885e-3	9.26482		Hydrogen

Totals : 3887.00965

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Calibration Curves

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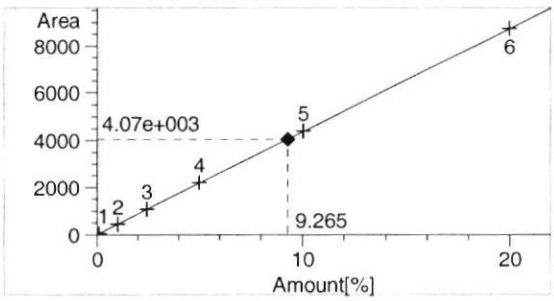


Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

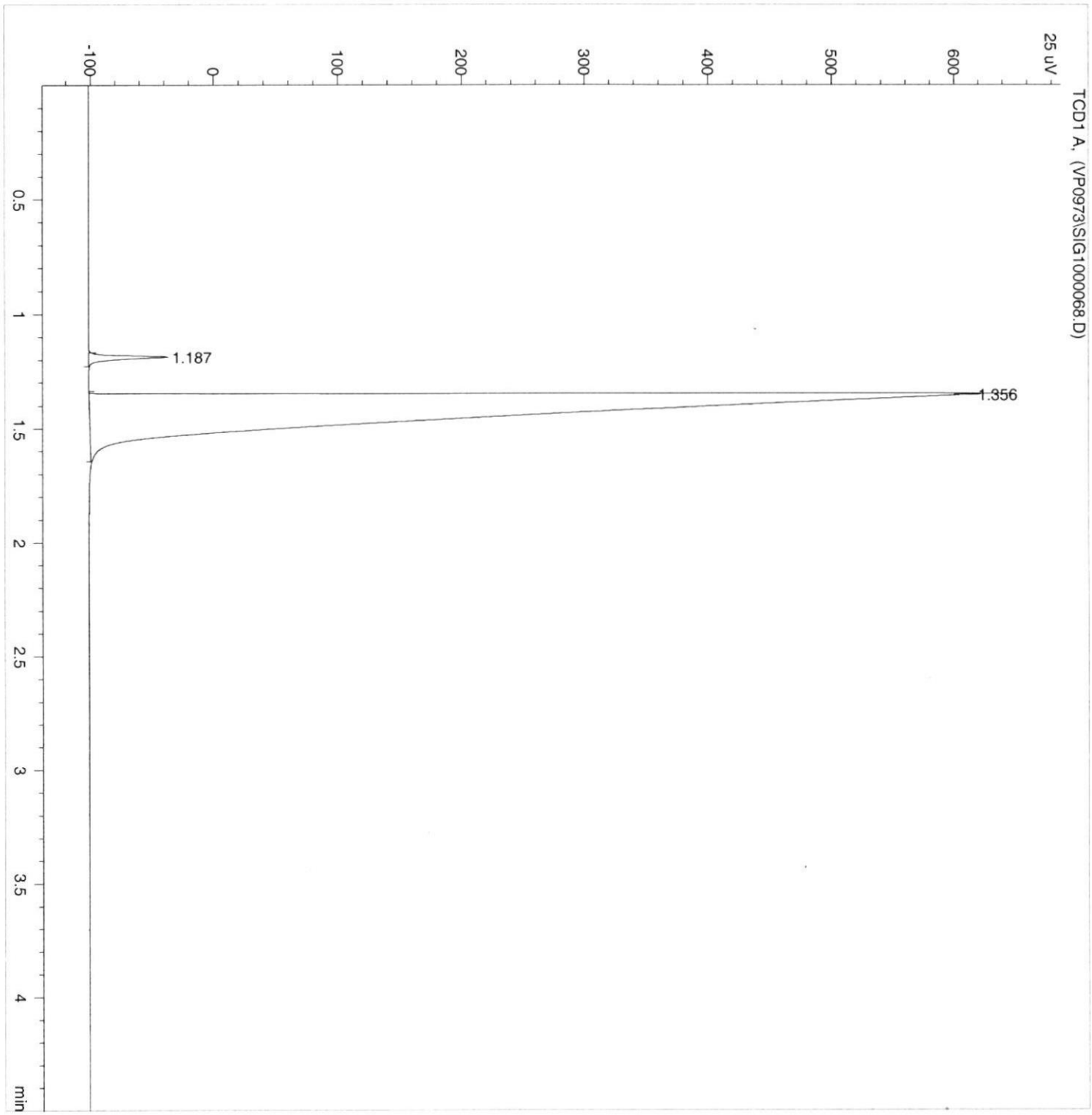
RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000068.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:35:06 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

==========



RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000068.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:35:06 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.040		-	-	-		Hydrogen

Totals : 4291.54437

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

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Area Percent Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [25 uV*s]	Area %	Name
1	1.040		0.0000	0.00000	0.00000	Hydrogen

Totals : 0.00000 0.0000

1 Warnings or Errors :

Warning : Calibrated compound(s) not found

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000068.D
Sample Name: N2 Prep Blank (1168)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 7:35:06 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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Calibration Curves

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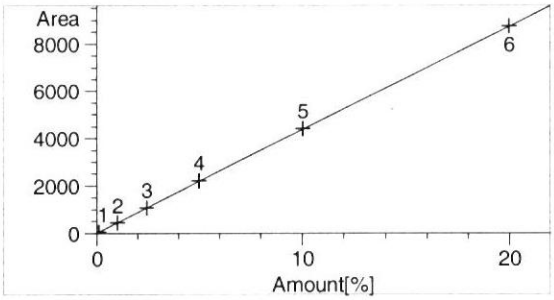

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000069.D
Sample Name: NE 80177-1 N.5 test 12/14/11 run 1

3

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 10:57:27 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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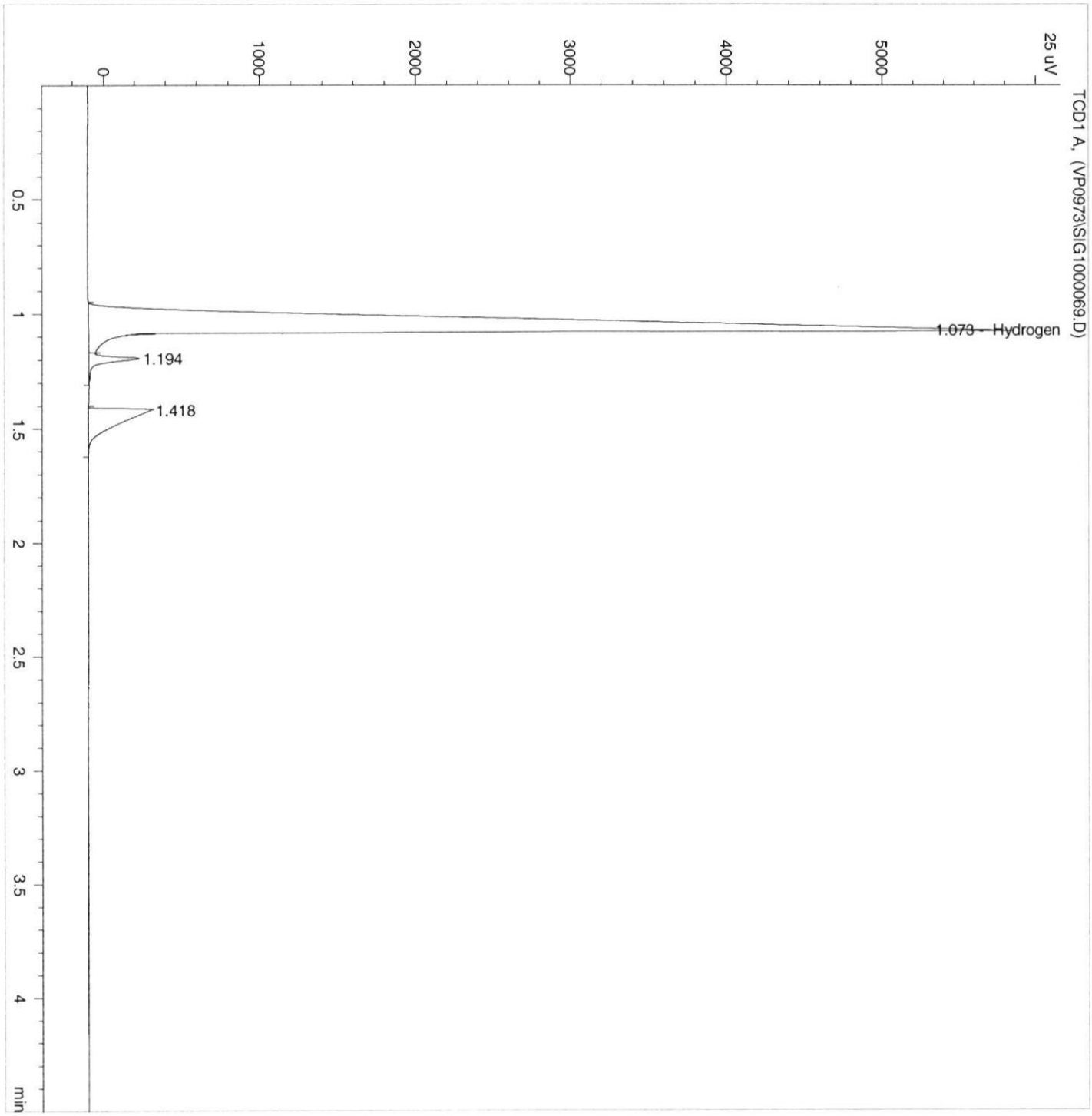

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000069.D
Sample Name: NE 80177-1 N.5 test 12/14/11 run 1

3

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 10:57:27 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.073	BV	2.06978e4	2.28268e-3	47.24646		Hydrogen

Totals : 2294.39344

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Calibration Curves

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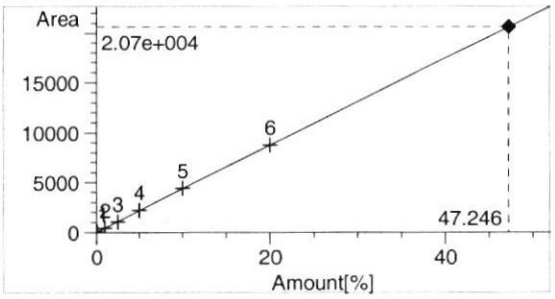


Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

RRB VP0973 12/20/2011

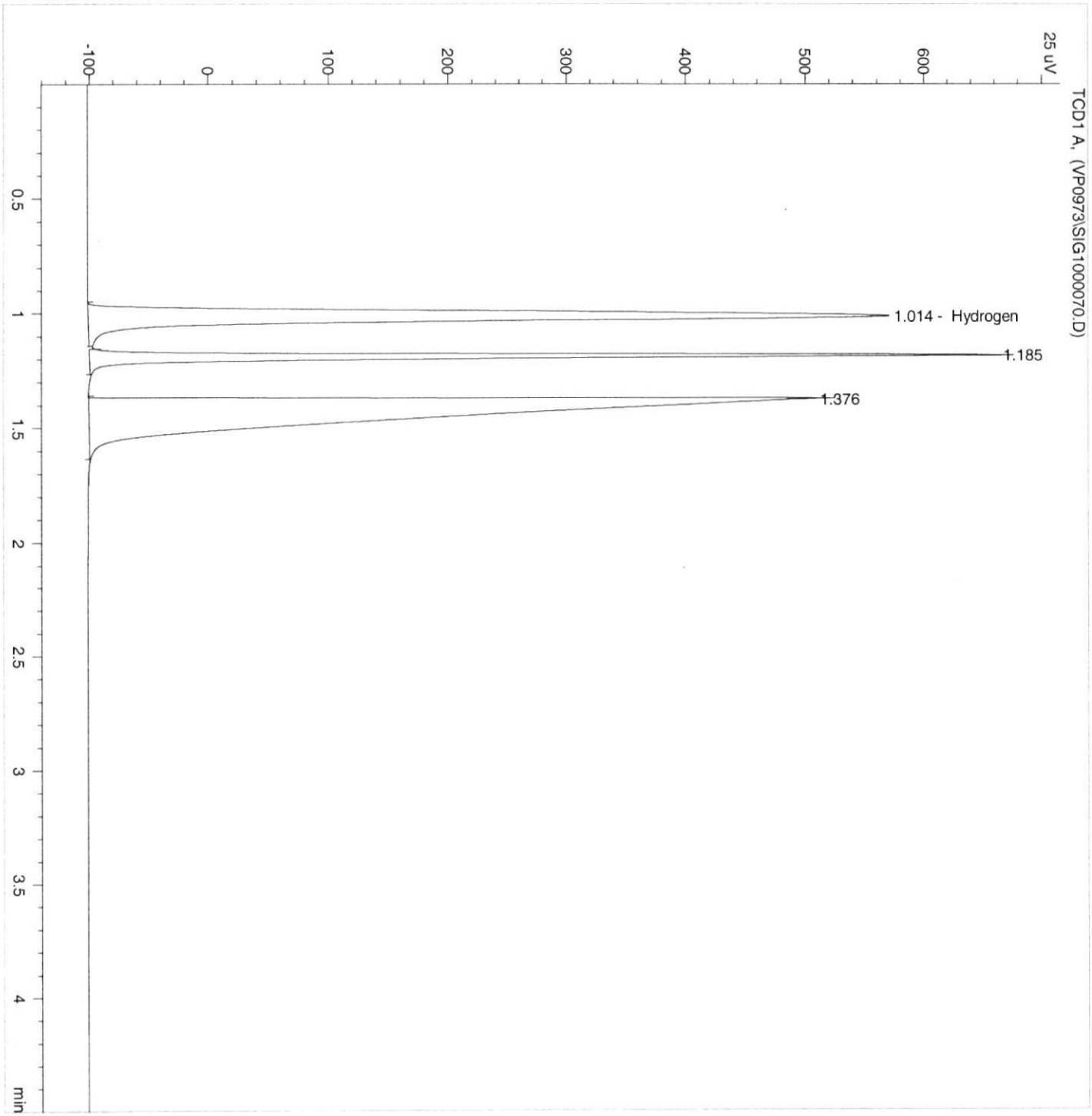
RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000070.D
Sample Name: NE 80177-1 N.5 test @ 10X

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:04:26 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

==========



RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000070.D
Sample Name: NE 80177-1 N.5 test @ 10X

3

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:04:26 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.014	BB	1950.92139	2.27368e-3	4.43576		Hydrogen

Totals : 4214.76926

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Calibration Curves

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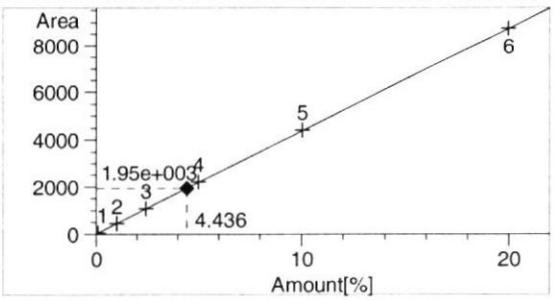

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

*** End of Report ***

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000071.D
Sample Name: NE 80177-1 N.5 test @ 10X R2

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:13:41 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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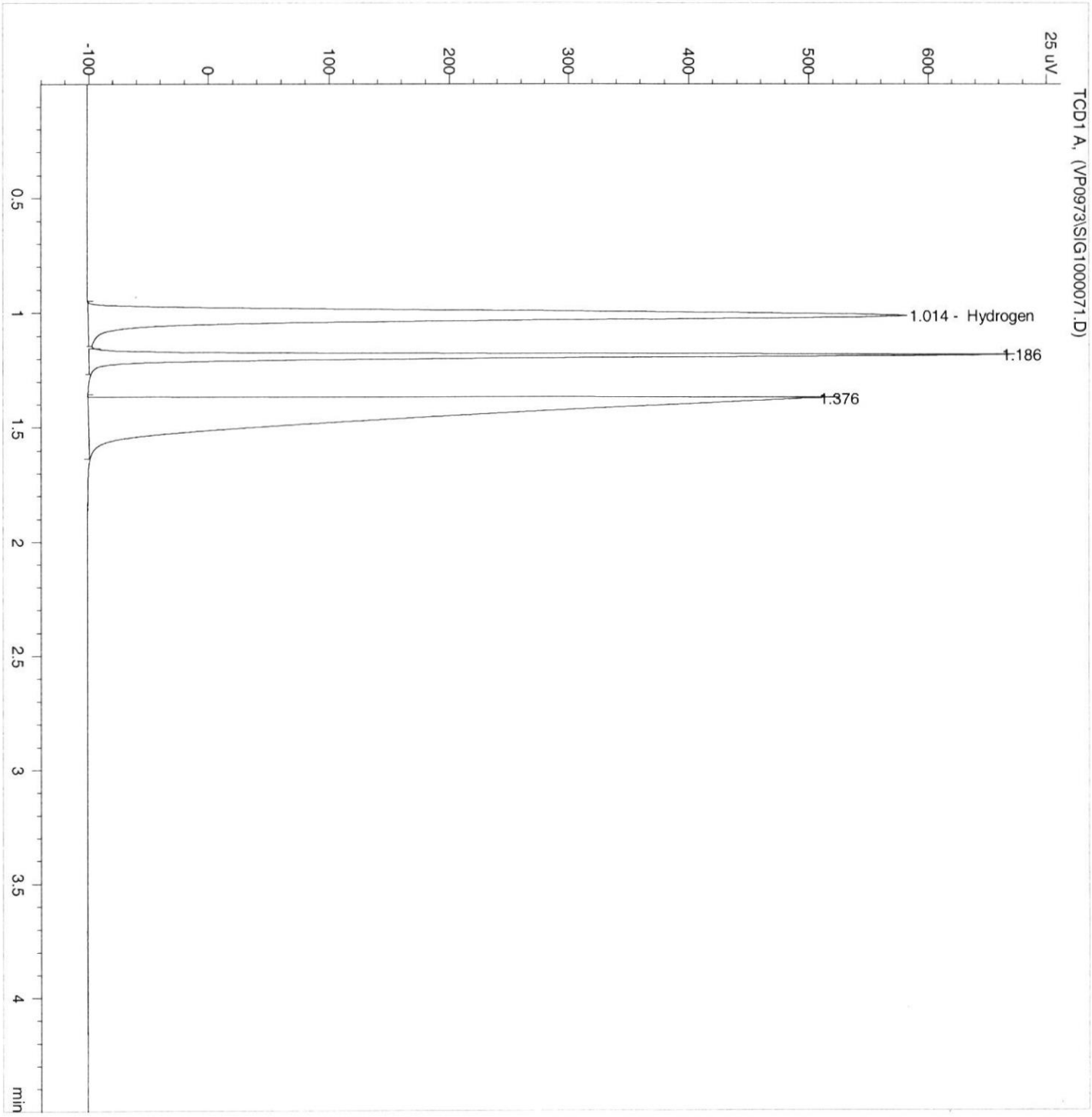

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000071.D
Sample Name: NE 80177-1 N.5 test @ 10X R2

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:13:41 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.014	BB	1964.16382	2.27374e-3	4.46600		Hydrogen

Totals : 4224.72479

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Calibration Curves

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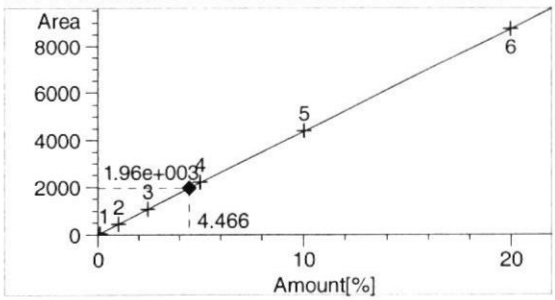

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000072.D
Sample Name: NE 80177-1 N.5 test @ 10X R3

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:19:26 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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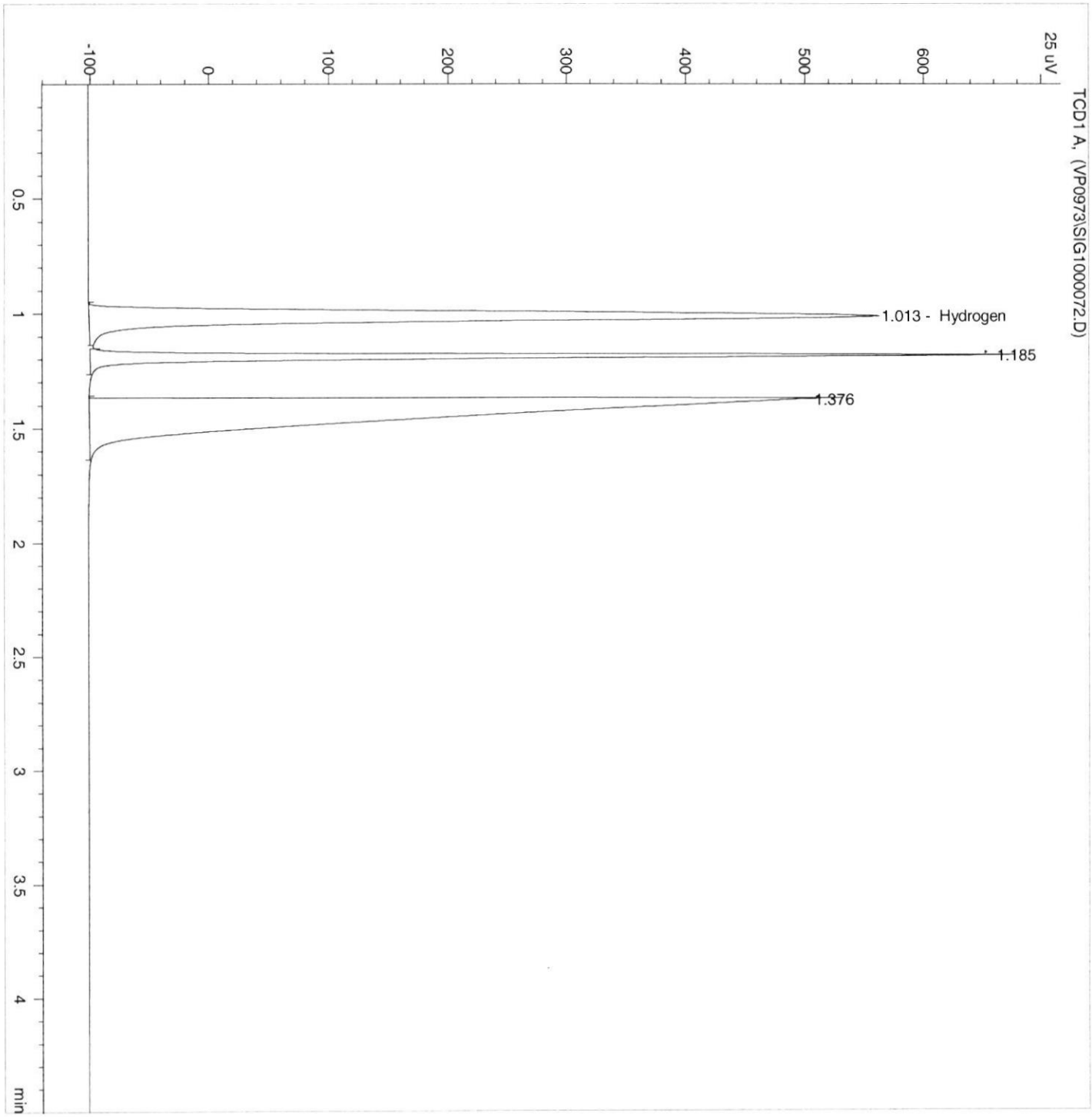

RRB VP0973 12/20/2011

RB 12-14-11

Data File C:\CHEM32\2\DATA\VP0973\SIG1000072.D
Sample Name: NE 80177-1 N.5 test @ 10X R3

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 11:19:26 AM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.013	BB	1909.58801	2.27346e-3	4.34137		Hydrogen

Totals : 4228.56574

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Calibration Curves

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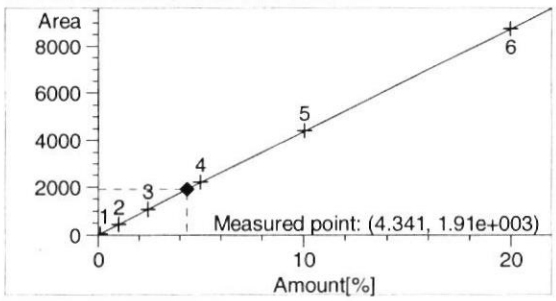

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000073.D
Sample Name: H2 CC Std 1.00% M-L (1007)

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:09:26 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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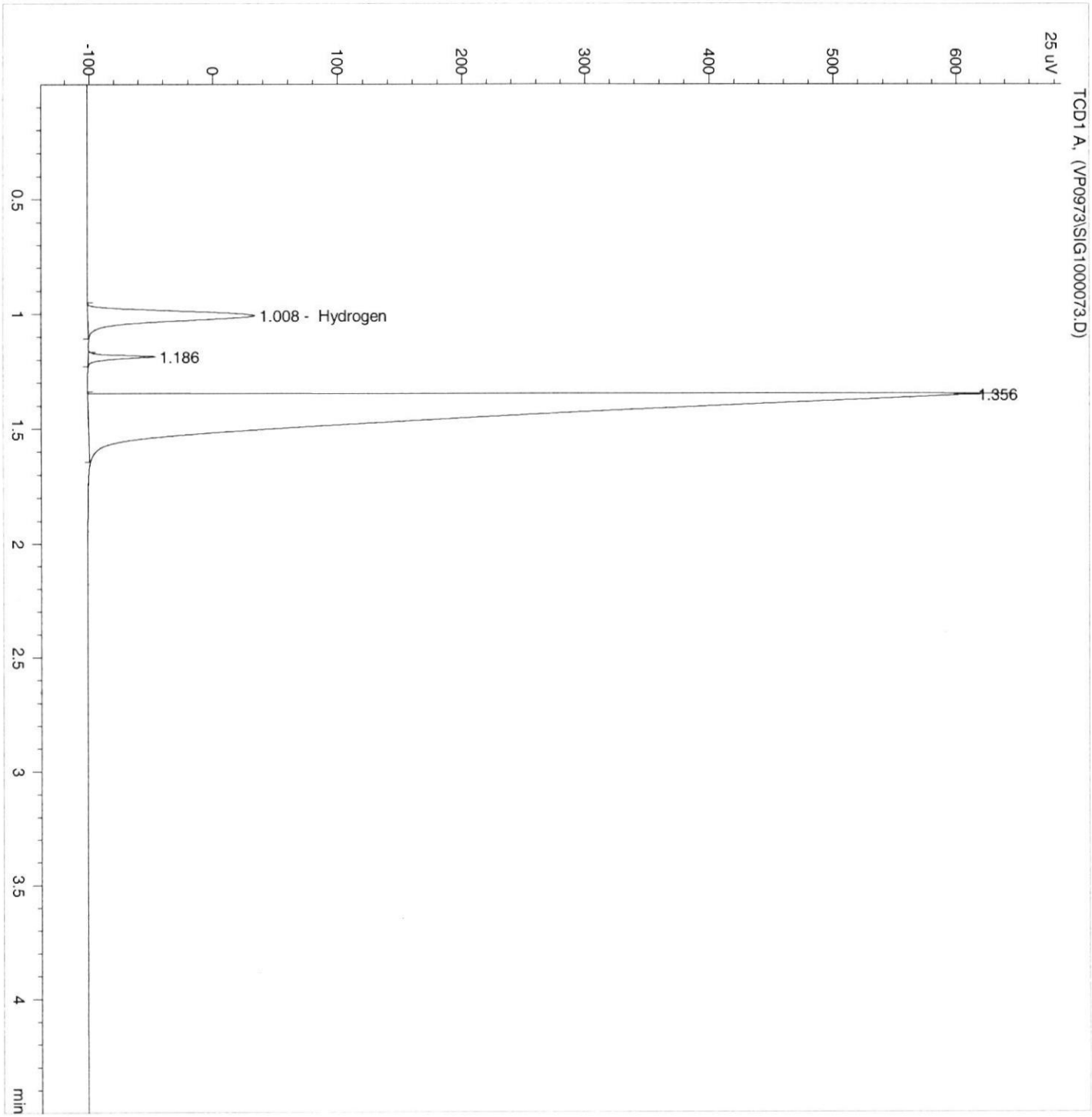

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000073.D
Sample Name: H2 CC Std 1.00% M-L (1007)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:09:26 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.008	BB	398.24384	2.23492e-3	8.90044e-1		Hydrogen

Totals : 4259.18561

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Calibration Curves

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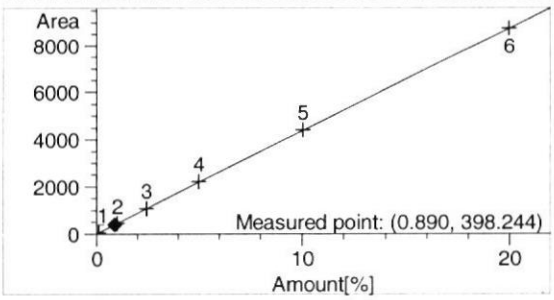

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000074.D
Sample Name: NE 30178-1 N.5 test @ 10X R1

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:41:44 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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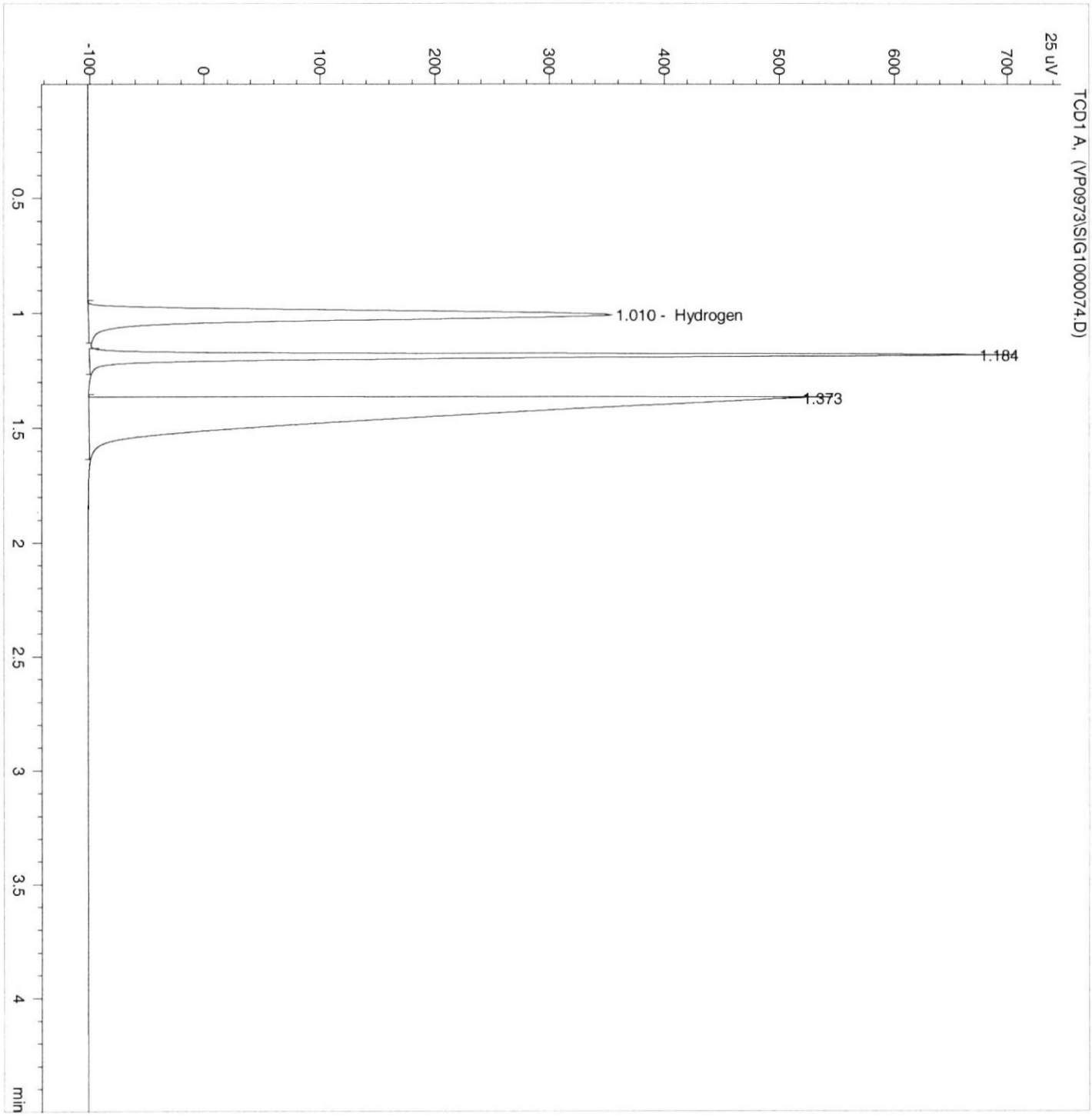

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000074.D
Sample Name: NE 30178-1 N.5 test @ 10X R1

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:41:44 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.010	BB	1323.26025	2.26896e-3	3.00243		Hydrogen

Totals : 4373.73827

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Calibration Curves

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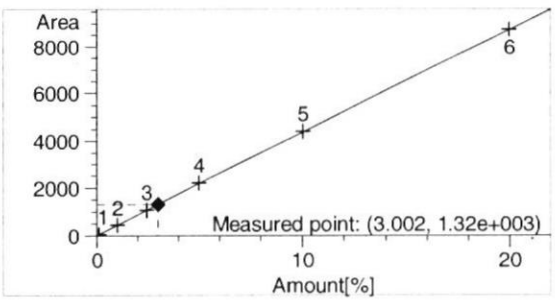

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000075.D
Sample Name: NE 30178-1 N.5 test @ 10X R2

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:48:27 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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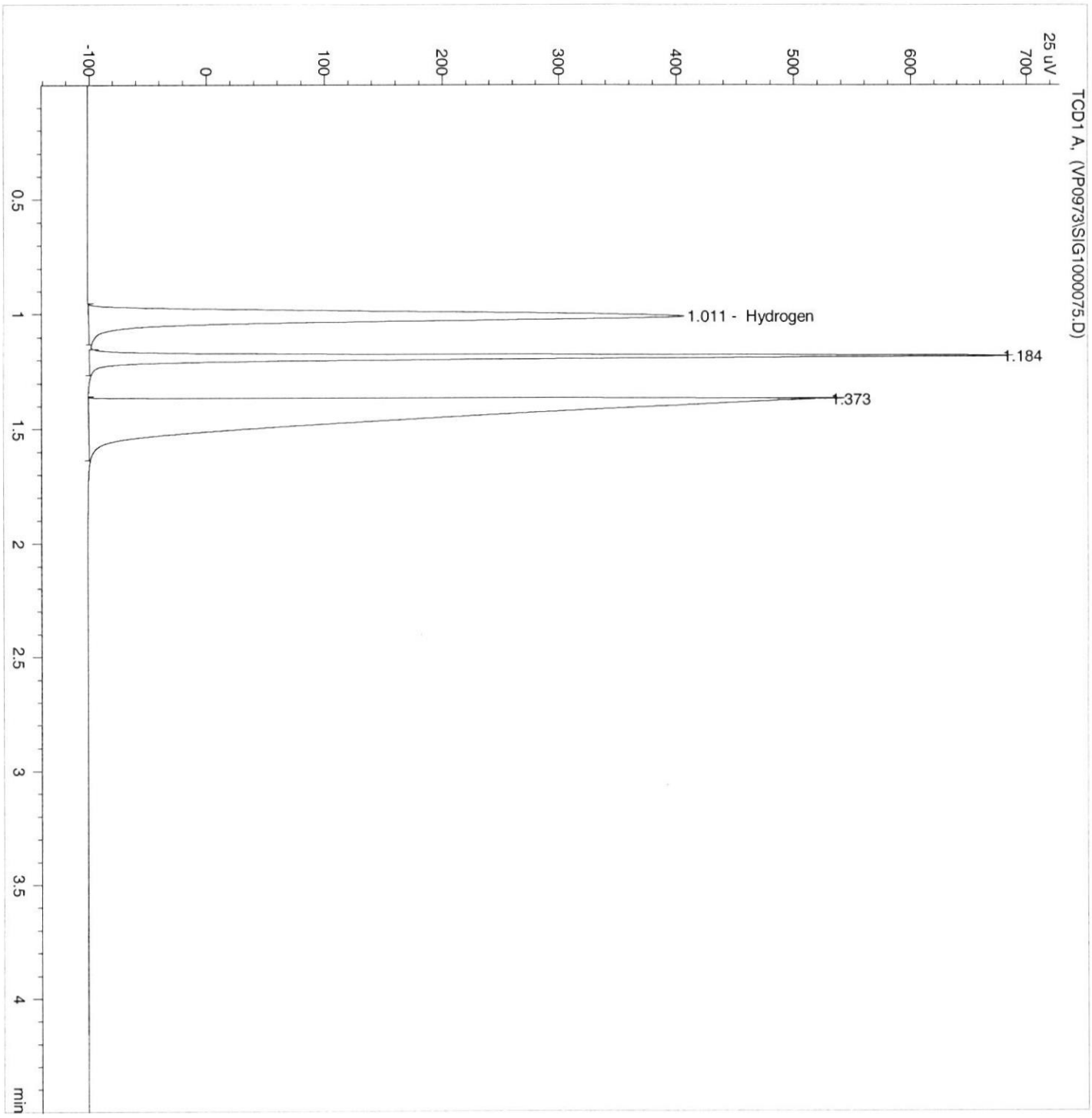

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000075.D
Sample Name: NE 30178-1 N.5 test @ 10X R2

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:48:27 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.011	BB	1468.87390	2.27041e-3	3.33495		Hydrogen

Totals : 4325.61315

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Calibration Curves

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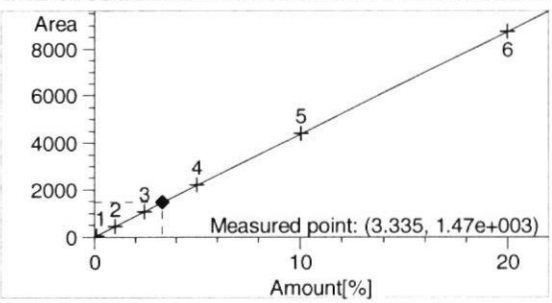

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000076.D
Sample Name: NE 30178-1 N.5 test @ 10X R3

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:54:51 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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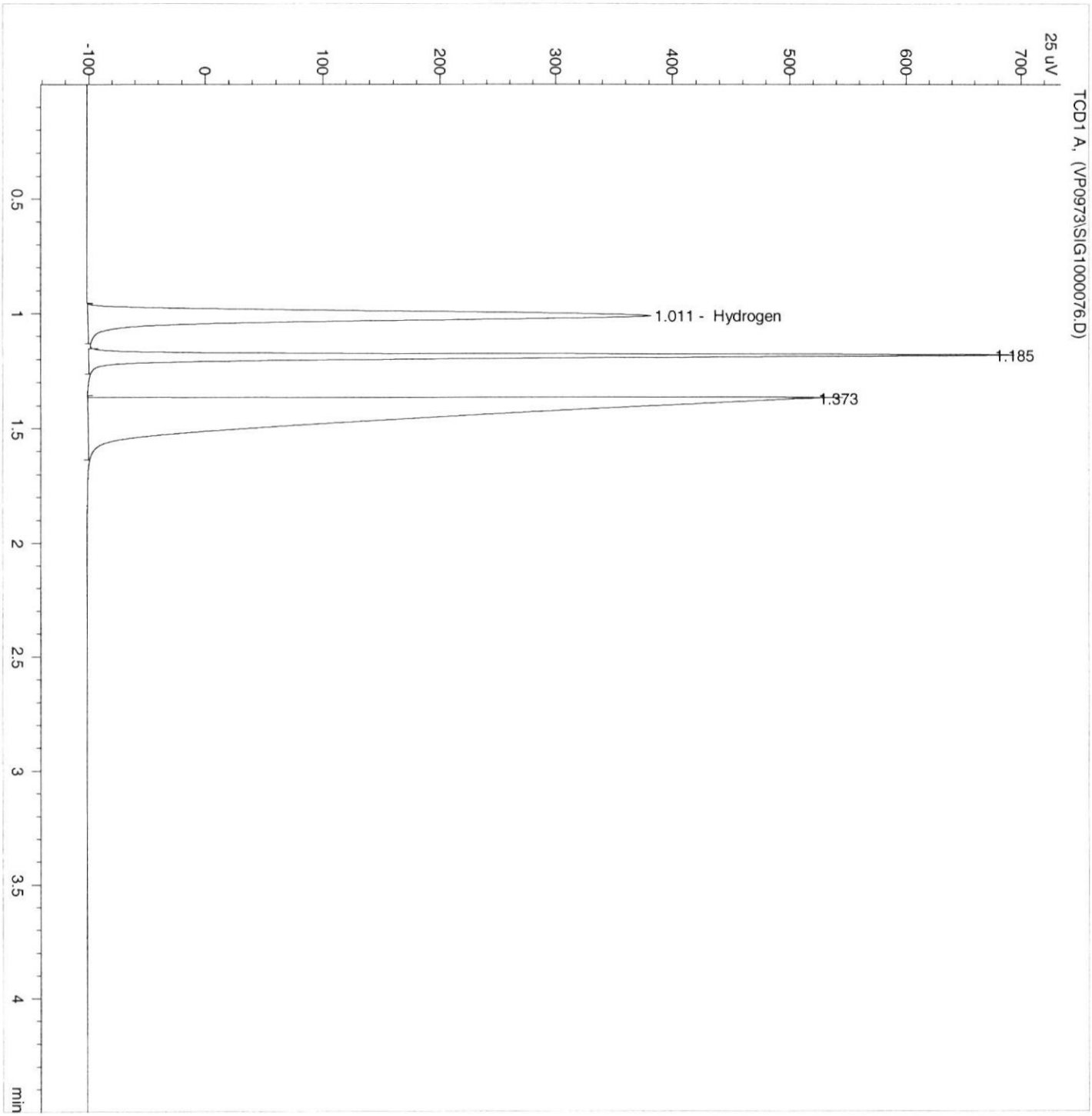

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000076.D
Sample Name: NE 30178-1 N.5 test @ 10X R3

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 3:54:51 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.011	BB	1398.63245	2.26975e-3	3.17455		Hydrogen

Totals : 4340.18895

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Calibration Curves

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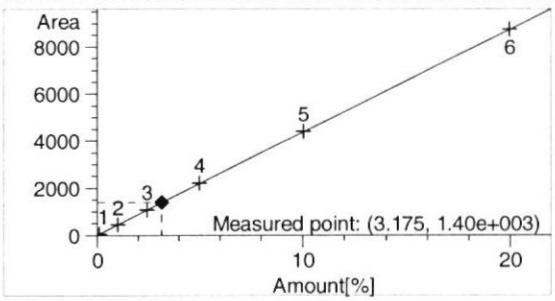

Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

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*** End of Report ***

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000077.D
Sample Name: H2 CC Std 1.00% M-L (1007)

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Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 4:03:04 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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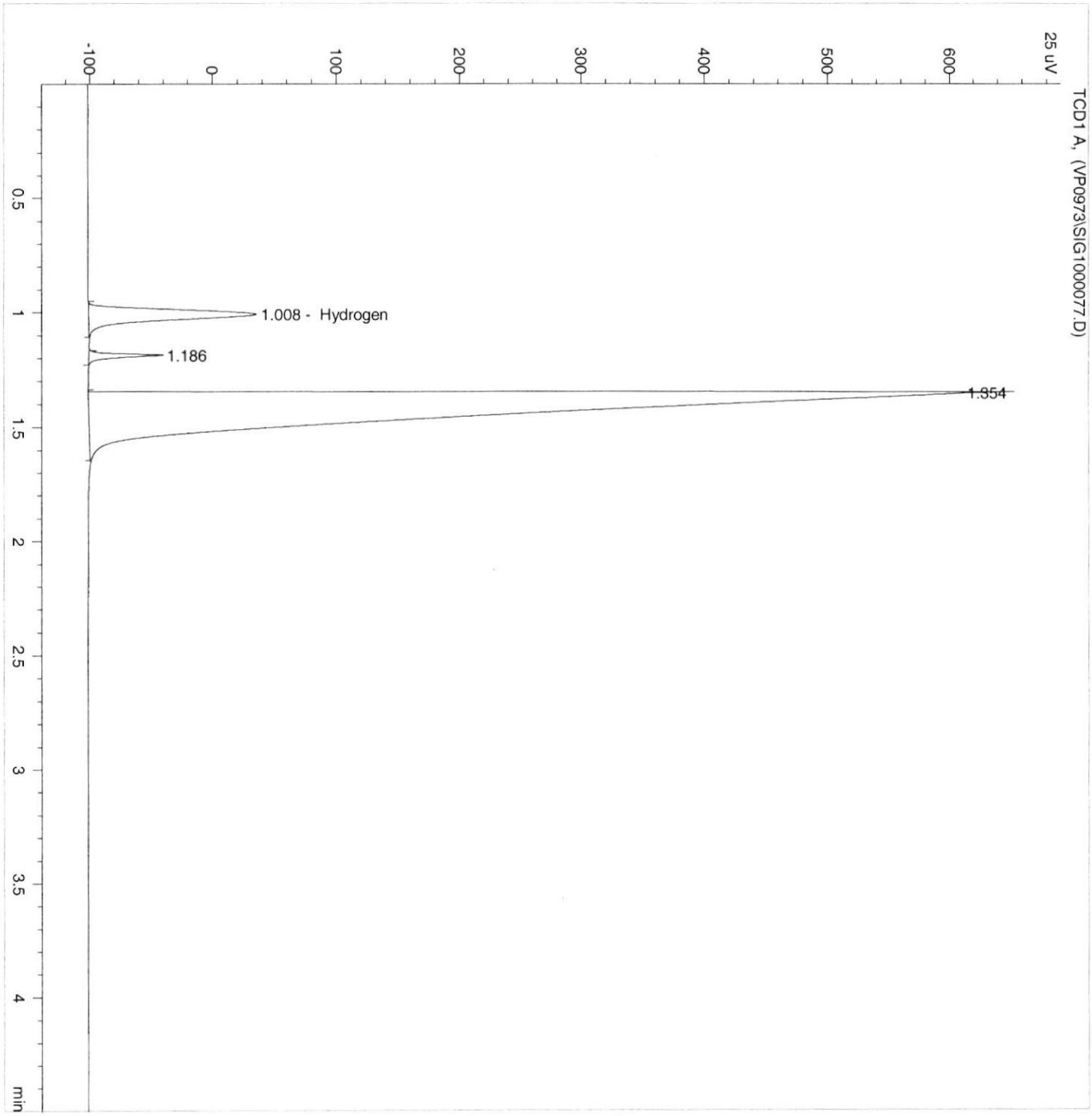

RRB VP0973 12/20/2011

Data File C:\CHEM32\2\DATA\VP0973\SIG1000077.D
Sample Name: H2 CC Std 1.00% M-L (1007)

==========

Acq. Operator : Bob Bohn
Acq. Instrument : VALVE4974 Location : -
Injection Date : 12/14/2011 4:03:04 PM Inj : 1
Inj Volume : Manually
Acq. Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 12/12/2011 6:55:40 AM by Bob Bohn
Analysis Method : C:\CHEM32\2\METHODS\VP0973_LOW_HYDROGEN_1.M
Last changed : 11/30/2011 10:31:28 AM by Bob Bohn
Method Info : Hydrogen analysis method

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : Wednesday, November 30, 2011 10:30:55 AM
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: TCD1 A,

RetTime [min]	Type	Area [25 uV*s]	Amt/Area	Amount [%]	Grp	Name
1.008	BB	406.20175	2.23588e-3	9.08217e-1		Hydrogen

Totals : 4371.19824

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Calibration Curves

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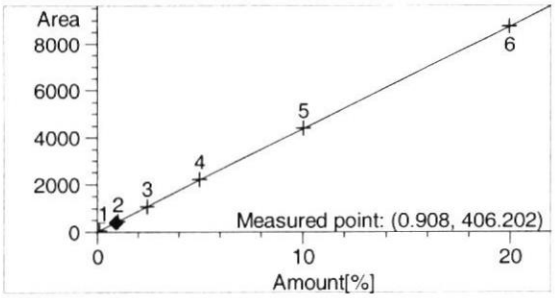


Hydrogen at exp. RT: 1.040
TCD1 A,
Correlation: 0.99999
Residual Std. Dev.: 17.69153
Formula: y = mx + b
m: 437.90211
b: 8.49174
x: Amount[%]
y: Area

==========

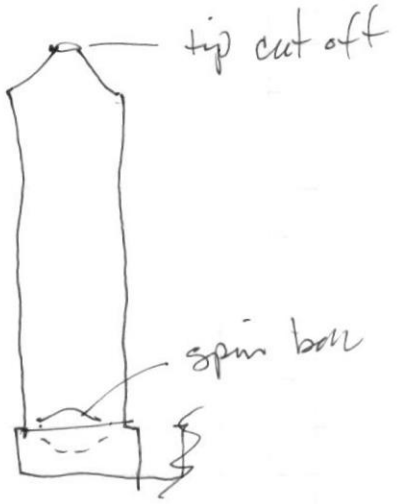
*** End of Report ***

RRB VP0973 12/20/2011

Name	Project No.	Location	59251
R. Ross	VP0973		Date: 1-23-12

Falcon 50 mL dispo centrifuge - volume detm using DI water @ 20°C = .998207 g/cm³

tare w/cap	13.40	13.41	13.42
w football spin bar #1			21.04
#2			21.05
with H_2O #2			

tip cut off

~~tare + spin bar 1~~	~~21.13~~				
w H_2O gross	77.42 ~~77.46~~	77.88 ~~77.61~~	77.64	77.83
tare + spin bar	20.95	21.01	20.97	20.96