

METHOD : PROCEDURE FOR THE QUANTITATION OF PETHIDINE IN
SUBSTITUTED SYRINGES

1. SAMPLE REQUIRED

LIQUID

2. SCIENTIFIC INSTRUMENTS

A. GAS CHROMATOGRAPH(GC)

3. REAGENTS REQUIRED

A. CHLOROFORM

B. FLUORANTHENE

C. AMMONIUM HYDROXIDE

4. PROCEDURE

A. PREPARE A SERIES OF PETHIDINE STANDARDS FOR A
CALIBRATION CHECK OF THE GC AS FOLLOWS.

1. ACCURATELY WEIGH 25.00 MILLIGRAMS OF PETHIDINE HCL
STANDARD ON AN ANALYTICAL BALANCE, CAREFULLY
TRANSFER INTO A 25 ML VOLUMETRIC FLASK, AND DILUTE
TO 25 MLS WITH DIONIZED WATER.

2. ACCURATELY PIPET 1ML, 2ML, 3ML, AND 4ML, OF THE
PETHIDINE SOLUTION INTO SEPARATE 16 X 25 MM
TEST TUBES AND MAKE BASIC WITH AMMONIUM HYDROXIDE.

3. ACCURATELY PIPET 5 MLS OF FLUORANTHENE STOCK
SOLUTION INTO EACH TEST TUBE AND VORTEX.

B. PREPARE A PETHIDINE QUANTITATION STANDARD BY
ACCURATELY WEIGHING ON AN ANALYTICAL BALANCE A
SAMPLE OF PETHIDINE HCL STANDARD (IN THE RANGE OF 4 TO
5 MILLIGRAMS IS USUALLY ADEQUATE). TRANSFER THE
PETHIDINE INTO A 16 X 125 MM TEST TUBE, ADD 3 MLS OF
DIONIZED WATER, AND MAKE BASIC WITH AMMONIUM
HYDROXIDE. . ACCURATELY PIPET 5 MLS OF FLUORANTHENE
STOCK SOLUTION INTO THE TEST TUBE AND VORTEX.

C. PREPARE CONTROL SYRINGE SAMPLES IF AVAILABLE BY
ACCURATELY PIPETING AND DILUTING CONTROL SAMPLES TO
A RANGE OF 1 TO 3 MG PER ML. EXAMPLE: 50 MG/ML
SYRINGE - PIPET 1/4 ML LIQUID AND DILUTE TO 10 MLS
WITH DIONIZED WATER; 75 MG/ML SYRINGE - PIPET 1/4 ML
LIQUID AND DILUTE TO 10 MLS WITH DIONIZED WATER;
100 MG/ML SYRINGE - PIPET 1/4 ML LIQUID AND DILUTE
TO A 10 ML WITH DIONIZED WATER. ACCURATELY TRANSFER
WITH A PIPET 2 MLS OF EACH DILUTED CONTROL SAMPLE
INTO A 16 X 125 MM TEST TUBE AND MAKE BASIC WITH
AMMONIUM HYDROXIDE. ACCURATELY PIPET 5 MLS OF
FLUORANTHENE STOCK SOLUTION INTO EACH TEST TUBE AND
VORTEX.

D. PREPARE SUBSTITUTED SYRINGE SAMPLES BY ACCURATELY PIPETING AND DILUTING SUBSTITUTED SYRINGE SAMPLES TO A RANGE OF 1 TO 3 MG PER ML. EXAMPLE: 50 MG/ML SYRINGE - PIPET 1/4 ML LIQUID AND DILUTE TO 10 MLS WITH DIONIZED WATER; 75 MG/ML SYRINGE - PIPET 1/4 ML LIQUID AND DILUTE TO 10 MLS WITH DIONIZED WATER; 100 MG/ML SYRINGE - PIPET 1/4 ML LIQUID AND DILUTE TO A 10 ML WITH DIONIZED WATER. ACCURATELY TRANSFER WITH A PIPET 2 MLS OF EACH SUBSTITUTED SYRINGE SAMPLE INTO A 16 X 125 MM TEST TUBE AND MAKE BASIC WITH AMMONIUM HYDROXIDE. ACCURATELY PIPET 5 MLS OF FLUORANTHENE STOCK SOLUTION INTO EACH TEST TUBE AND VORTEX.

E. INJECT ALIQUOTS OF THE PETHIDINE QUANTITATION STANDARD, PETHIDINE CALIBRATION CHECK STANDARDS, CONTROL SAMPLES AND SUBSTITUTED SAMPLES INTO A GC AT APPROPRIATE CONDITIONS AND QUANTITATIVE PROGRAM, AND RETAIN THE RECORDED QUANTITATIVE RESULTS.

1. THE QUANTITATIVE RESULTS ARE CALCULATED BY THE RESPECTIVE PROGRAMS AND FOLLOW THE FORMULA:

$$\text{RAU/RAS} \times \text{WS/WU} \times 100 = \%$$

WHERE : RAU = RATIO OF AREAS OF PETHIDINE PEAK AND INTERNAL STANDARD PEAK OF UNKNOWN

RAS = RATIO OF AREAS OF PETHIDINE PEAK AND INTERNAL STANDARD PEAK OF QUANTITATION STANDARD

WS = WEIGHT OF THE QUANTITATION STANDARD

WU = WEIGHT OF THE UNKNOWN

% = PERCENT OF PETHIDINE PRESENT IN KNOWN

5. PREPARATION OF REAGENTS

A. FLUORANTHANE STOCK SOLUTION - WEIGH APPROXIMATELY 500 MILLIGRAMS OF FLUORANTHANE AND TRANSFER TO A 250 ML FLASK, AND DILUTE TO 250 MLS WITH CHLOROFORM.

6. NOTES

A. IF THE CALIBRATION CHECK STANDARDS AND THE QUANTITATION STANDARD HAVE BEEN PREPARED FOR LESS THAN A MONTH INJECTION AND CALCULATION OF THE CALIBRATION STANDARDS, AND MAKING UP OF THE QUANTITATION STANDARD CAN BE OMITTED.

B. THE RECORDED QUANTITATIVE RESULTS IS IN PERCENTAGE. TO OBTAIN THE MGS OF PETHIDINE PRESENT IN THE CONTROL SYRINGES AND THE SUBSTITUTED SYRINGES, MULTIPLY THE MGS THAT SHOULD BE PRESENT IN THE SYRINGES BY THE PERCENTAGES OBTAINED.

Test Samples: Pethidine HCl Run 1 4/28/97 JR

25 mg/ml test SAMPLE:

Weighted out 250mg diluted to 10ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10ml with water = 6.25mg/10ml or 0.625mg/ml

Pipetted 2ml or 1.25mg and carried through quantitation Extraction

50mg/ml test SAMPLE:

Weighted out 500mg diluted to 10ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10ml with water = 12.5mg/10ml or 1.25mg/ml

Pipetted 2ml or 2.5mg and carried through quantitation Extraction

75mg/ml test sample

Weighted 750mg diluted to 10ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10ml with water = 18.75mg/10ml or 1.875mg/ml

Pipetted 2ml or 3.75mg and carried through quantitation Extraction

100 mg/ml test sample

Weighted 1000 mg diluted to 10ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10ml with water = 25mg/10ml or 2.5mg/ml

Pipetted 2ml or 5mg and ~~carried~~ carried through quantitation Extraction.

RESULTS:

25 mg/ml sample =	99.811%	Pethidine =	24.958mg pethidine
50 mg/ml sample =	99.996%	Pethidine =	49.99mg pethidine
75 mg/ml sample =	104.142%	pethidine =	78.1 mg pethidine
100 mg/ml sample =	94.002%	pethidine =	94.0 mg pethidine

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Calibration Report

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Da File Name : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator : PWF Page Number : 1
Instrument : GAS CHROM Vial Number : 1
Sample Name : PETHIDINE STD. Injection Number : 1
Run Time Bar Code: Sequence Line : 2
Acquired on : 28 Apr 97 08:01 AM Instrument Method: PETHQUA.MTH
Report Created on: 28 Apr 97 08:08 AM Analysis Method : PETHQUA.MTH
Last Recalib on : 28 APR 97 07:25 AM Sample Amount : 3.94
Multiplier : 1 ISTD Amount : 1

Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref	Istd	I#	Name
1	1.520	1	3.94	6.4495e-005			1	PETHIDINE
2	3.488	1	1.0	3.6914e-006	Ref	ISTD	1	FLUORANTHENE

Calibration Settings

Title:

ference window: 5.000 %
Non-reference window: 5.000 %
Units of amount: ng/ul
Multiplier: 1.0
RF uncal peaks: 0.0
Sample Amount: 0.0

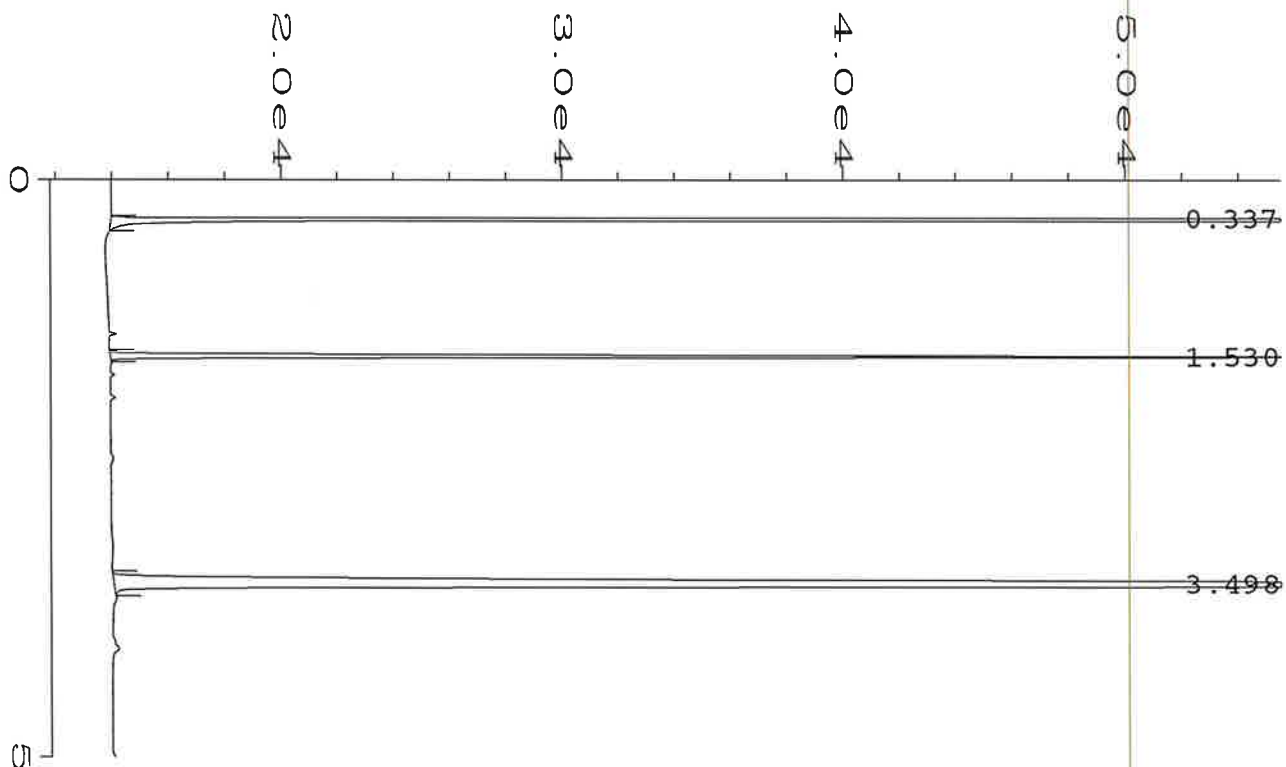
Sample ISTD Information

I#	Amount
1	1.0

Multilevel Information

Fit: Linear
Origin: Force

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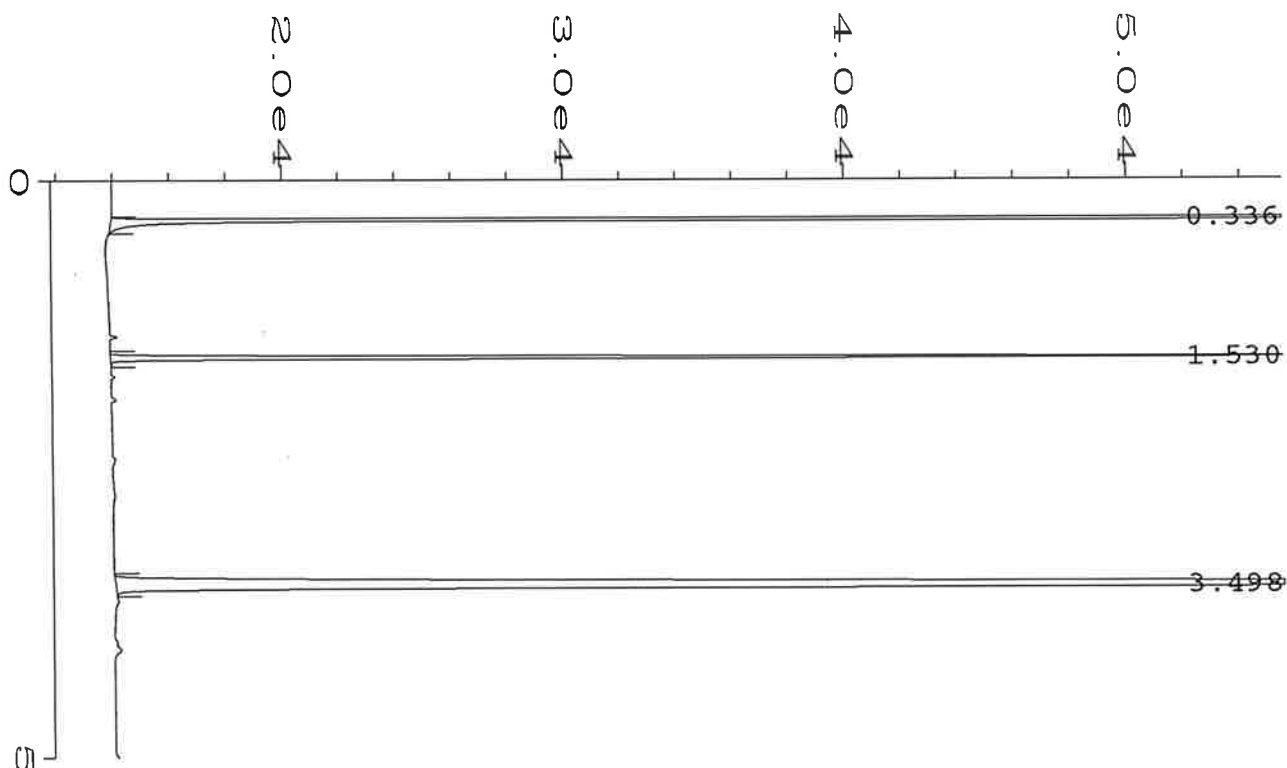
Internal Standard Report

Data File Name : C:\CHEMPC\2\DATA\PWF\001F0201.D
 Operator : PWF Page Number : 1
 Instrument : GAS CHROM Vial Number : 1
 Sample Name : PETHIDINE STD. Injection Number : 1
 Run Time Bar Code: Sequence Line : 2
 Acquired on : 28 Apr 97 08:01 AM Instrument Method: PETHQUA.MTH
 Report Created on: 28 Apr 97 08:08 AM Analysis Method : PETHQUA.MTH
 Last Recalib on : 28 Apr 97 08:08 AM Sample Amount : 3.94
 Multiplier : 1 ISTD Amount : 1

Sig. 1 in C:\CHEMPC\2\DATA\PWF\001F0201.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.530	61090	BB	0.022	1	100.000	PETHIDINE
3.498	270900	BB	0.045	1-IR	25.381	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.498	0.3%



Internal Standard Report

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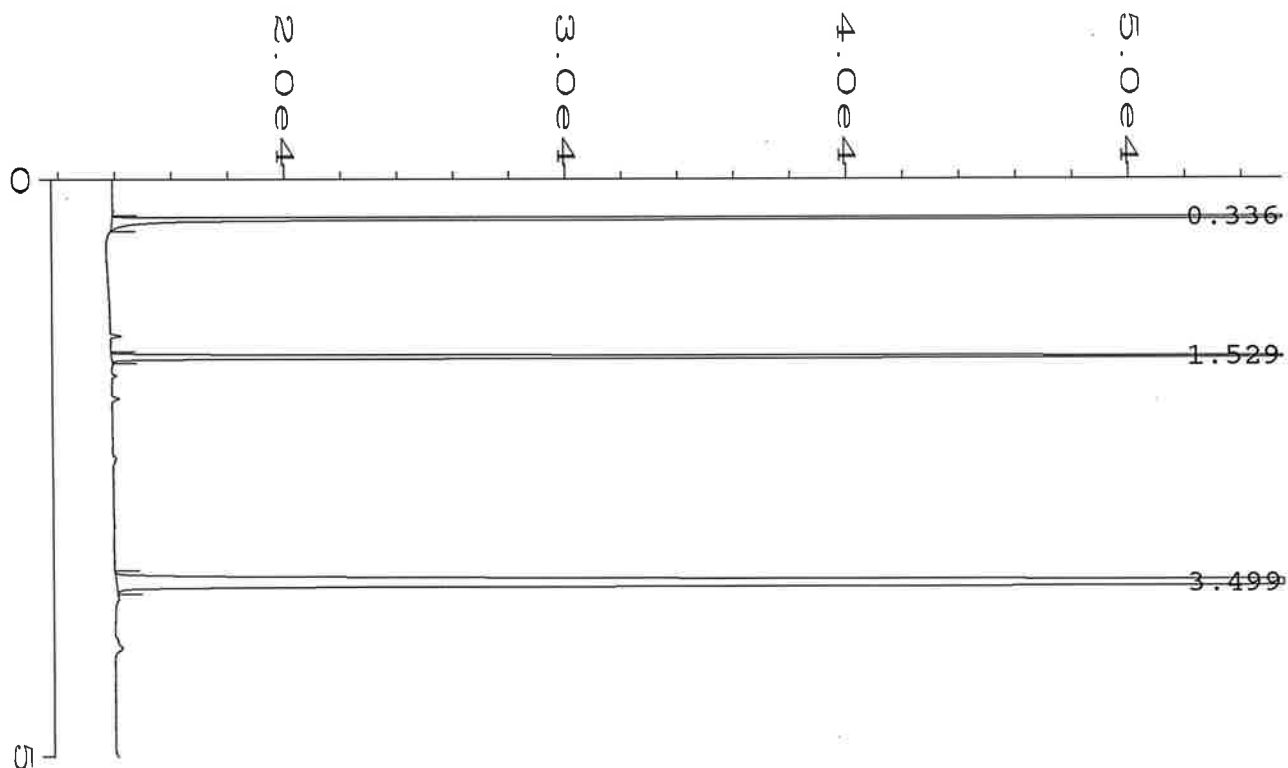
Data File Name   : C:\CHEMPC\2\DATA\PWF\002F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : PETHIDINE STD.
Run Time Bar Code:
Acquired on     : 28 Apr 97  08:08 AM
Report Created on: 28 Apr 97  08:14 AM
Last Recalib on : 28 Apr 97  08:08 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 2
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 3.94
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\002F0301.D

Ret Time	Area	Type	Width	Ref#	Amount	%	Name
1.530	61306	BB	0.022	1	100.674		PETHIDINE
3.498	270037	BB	0.045	1-IR	25.381		FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.498	0.3%



Internal Standard Report

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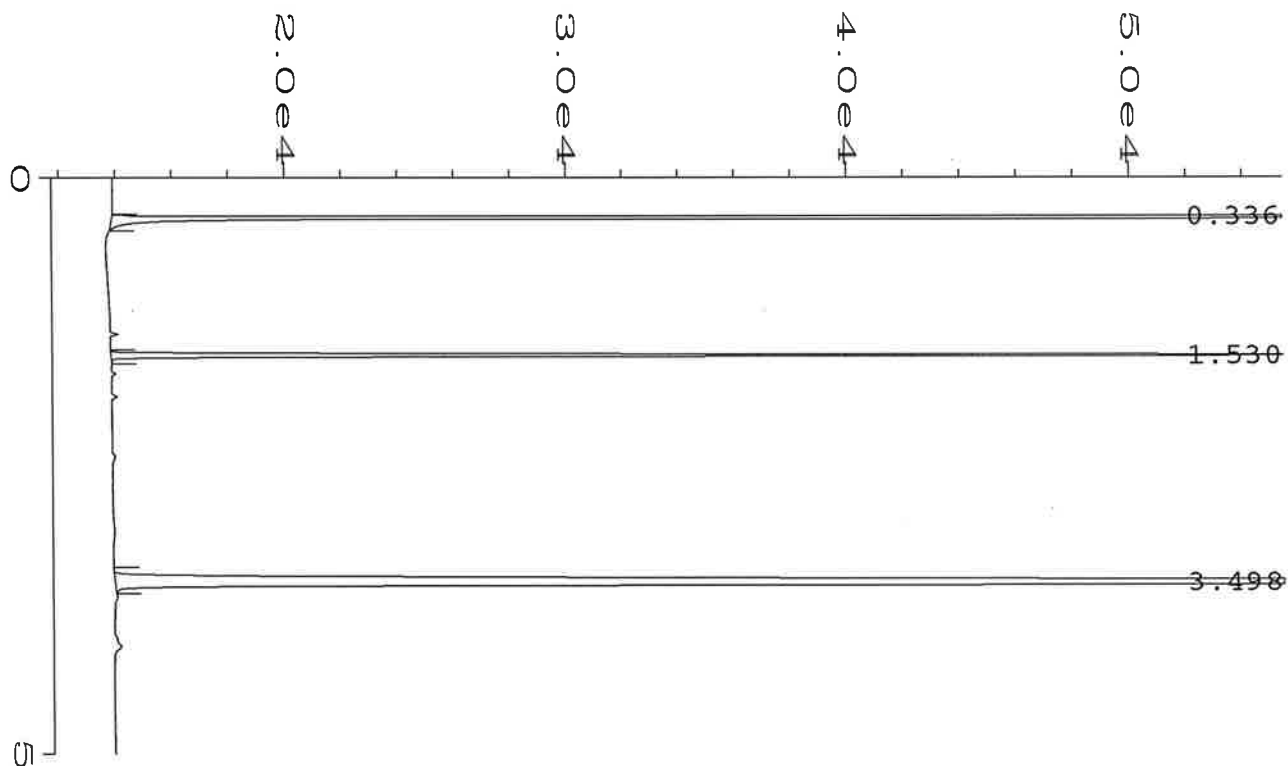
Data File Name   : C:\CHEMPC\2\DATA\PWF\007F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 100mg TEST SAMPL
Run Time Bar Code:
Acquired on     : 28 Apr 97  08:40 AM
Report Created on: 28 Apr 97  08:47 AM
Last Recalib on : 28 Apr 97  08:08 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 7
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 5.00
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\007F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	83931	BB	0.022	1	94.002	PETHIDINE
3.499	312000	BB	0.045	1-IR	20.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.499	0.3%



Internal Standard Report

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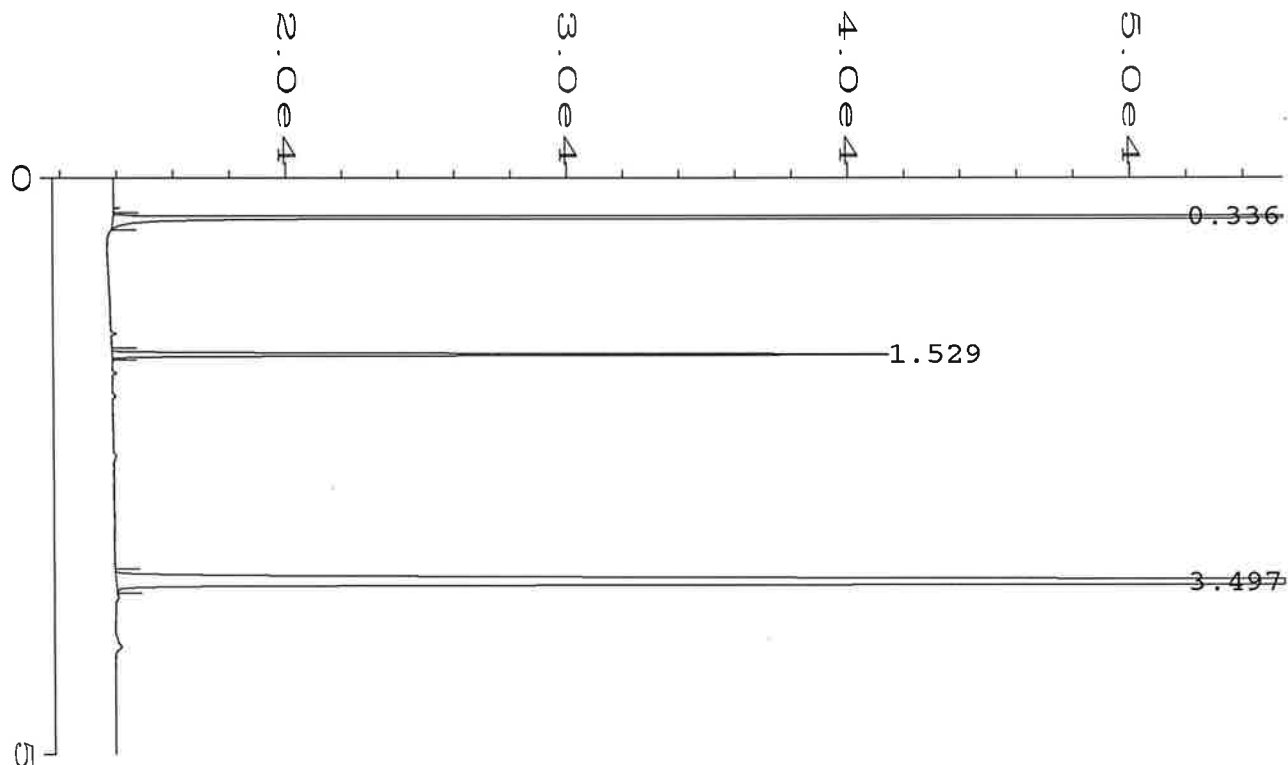
Data File Name   : C:\CHEMPC\2\DATA\PWF\008F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 75mg TEST SAMPLE
Run Time Bar Code:
Acquired on     : 28 Apr 97  08:47 AM
Report Created on: 28 Apr 97  08:53 AM
Last Recalib on : 28 Apr 97  08:08 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 8
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 3.75
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\008F0301.D

Ret Time	Area	Type	Width	Ref#	Amount	%	Name
1.530	61329	BB	0.022	1	104.142		PETHIDINE
3.498	274375	BB	0.045	1-IR	26.667		FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.498	0.3%



Internal Standard Report

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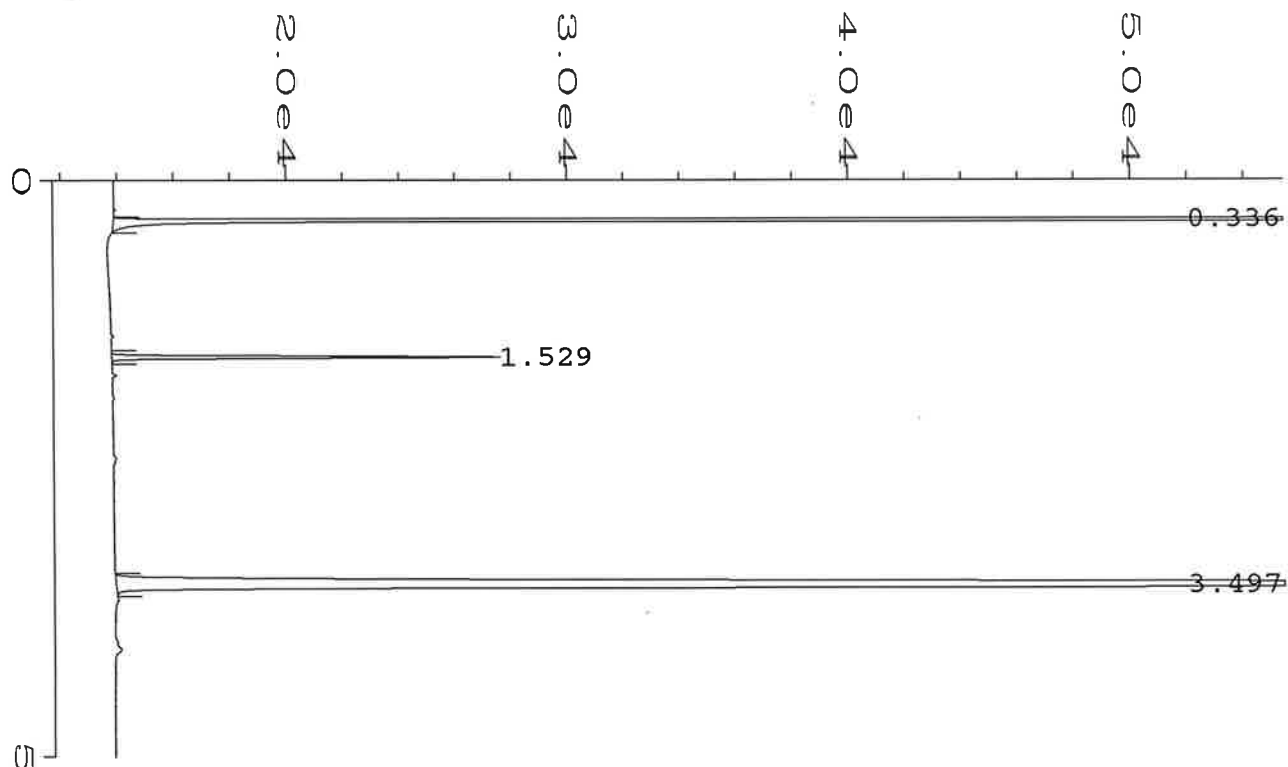
Data File Name   : C:\CHEMPC\2\DATA\PWF\009F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 50mg TEST SAMPLE
Run Time Bar Code:
Acquired on     : 28 Apr 97  08:53 AM
Report Created on: 28 Apr 97  08:59 AM
Last Recalib on : 28 Apr 97  08:08 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 9
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 2.50
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\009F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	37753	BB	0.022	1	99.996	PETHIDINE
3.497	263850	BB	0.045	1-IR	40.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.497	0.3%



Internal Standard Report

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Data File Name   : C:\CHEMPC\2\DATA\PWF\010F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 25mg TEST SAMPL
Run Time Bar Code:
Acquired on     : 28 Apr 97  09:00 AM
Report Created on: 28 Apr 97  09:06 AM
Last Recalib on : 28 Apr 97  08:08 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 10
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 1.25
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\010F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	19022	BB	0.022	1	99.811	PETHIDINE
3.497	266387	BB	0.045	1-IR	80.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.488	3.497	0.3%

Test Sample : Pethidine HCl

Run 2

4/28/97

25 mg/ml test sample:

Weighed out 250 mg diluted to 10ml with deionized water

Pipetted 1/4 ml and diluted to 10ml with water = 6.25 mg/10ml or 0.625 mg/ml

Pipetted 2ml or 1.25 mg and carried through quantitation Extraction

50 mg/ml test sample:

Weighed out 500 mg diluted to 10ml with deionized water

Pipetted 1/4 ml and diluted to 10ml with water = 12.5 mg/10ml or 1.25 mg/ml

Pipetted 2ml or 2.5 mg and carried through quantitation Extraction

75 mg/ml test sample:

Weighed out 750 mg diluted to 10ml with deionized water

Pipetted 1/4 ml and diluted to 10ml with water

= 18.75 mg/10ml or 1.875 mg/ml

Pipetted 2ml or 3.75 mg and carried through quantitation Extraction

100 mg/ml test sample

Weighed 1000 mg diluted to 10ml with deionized water

Pipetted 1/4 ml and diluted to 10ml with water = 25 mg/10ml or 2.5 mg/ml

Pipetted 2ml or 5 mg and carried through quantitation Extraction

RESULTS:

25 mg/ml sample = 93.055% Pethidine = 23.26 mg pethidine

50 mg/ml sample = 91.408% Pethidine = 45.70 mg pethidine

75 mg/ml sample = 94.829% Pethidine = 71.12 mg pethidine

100 mg/ml sample = 95.194% Pethidine = 95.19 mg pethidine

*Note: Run 2 - I used the weighed test samples From Run 1 - I repipetted and re extracted

Calibration Report

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a File Name      : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator         : PWF                               Page Number      : 1
Instrument        : GAS CHROM                       Vial Number       : 1
Sample Name       : PETHIDINE STD.                 Injection Number  : 1
Run Time Bar Code:                               Sequence Line     : 2
Acquired on      : 28 Apr 97  04:01 PM             Instrument Method: PETHQUA.MTH
Report Created on: 28 Apr 97  04:08 PM             Analysis Method  : PETHQUA.MTH
Last Recalib on  : 28 APR 97  08:08 AM             Sample Amount    : 4.21
Multiplier       : 1                               ISTD Amount      : 1
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Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref Istd I#	Name
1	1.522	1	4.21	6.5856e-005	1	PETHIDINE
2	3.489	1	1.0	6.6334e-006	Ref ISTD 1	FLUORANTHENE

Calibration Settings

Title:

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Reference window:          5.000 %
Non-reference window:     5.000 %
Units of amount:          ng/ul
Multiplier:               1.0
RF uncal peaks:           0.0
Sample Amount:            0.0

```

Sample ISTD Information

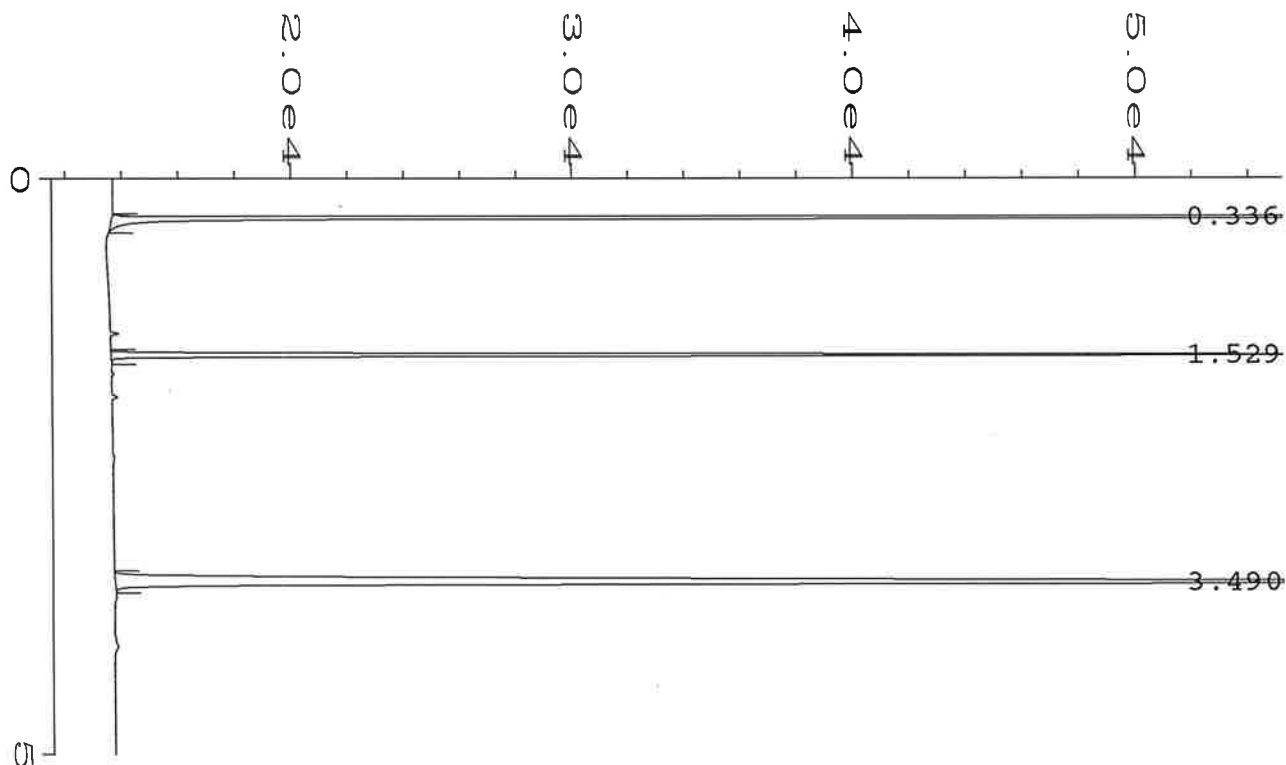
I#	Amount
1	1.0

Multilevel Information

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Fit:      Linear
Origin:   Force
=====

```



Internal Standard Report

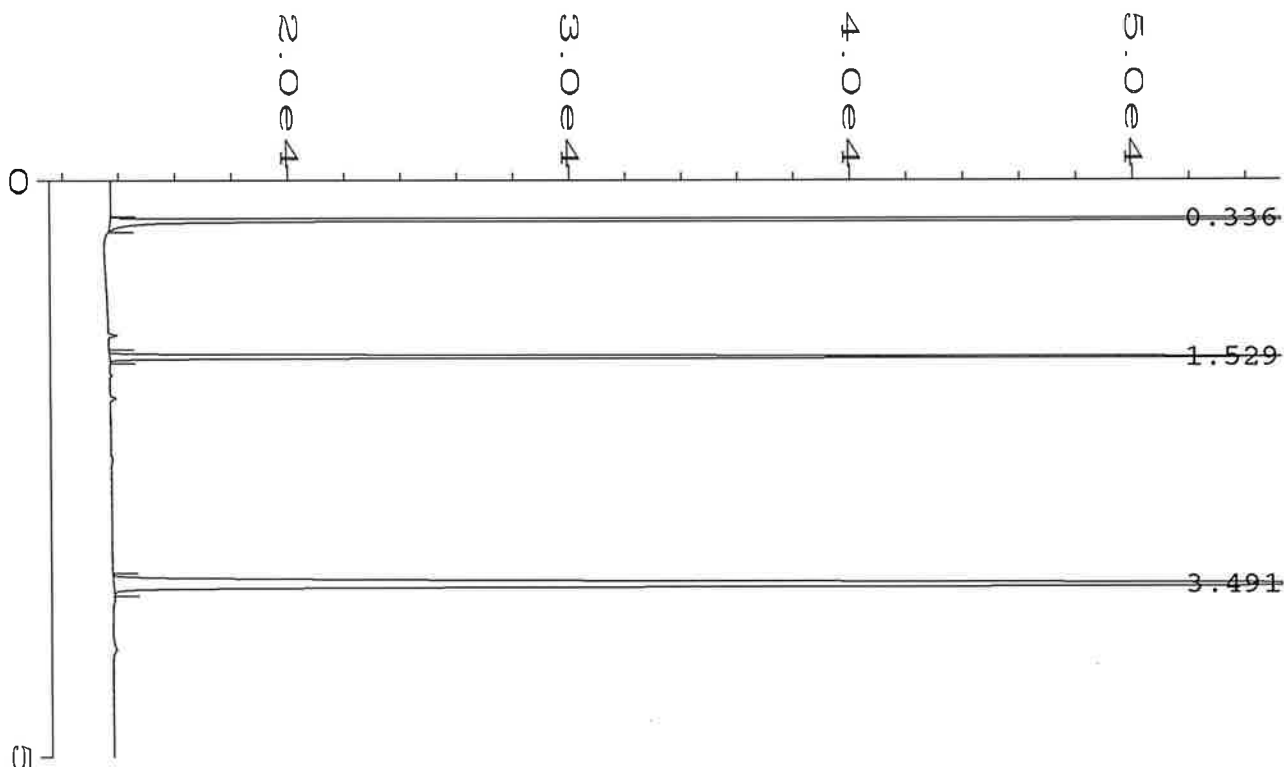
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Data File Name   : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : PETHIDINE STD.
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:01 PM
Report Created on: 28 Apr 97  04:08 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1
Page Number     : 1
Vial Number     : 1
Injection Number: 1
Sequence Line   : 2
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4.21
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\001F0201.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	63928	BB	0.022	1	100.000	PETHIDINE
3.490	150752	BB	0.045	1-IR	23.753	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

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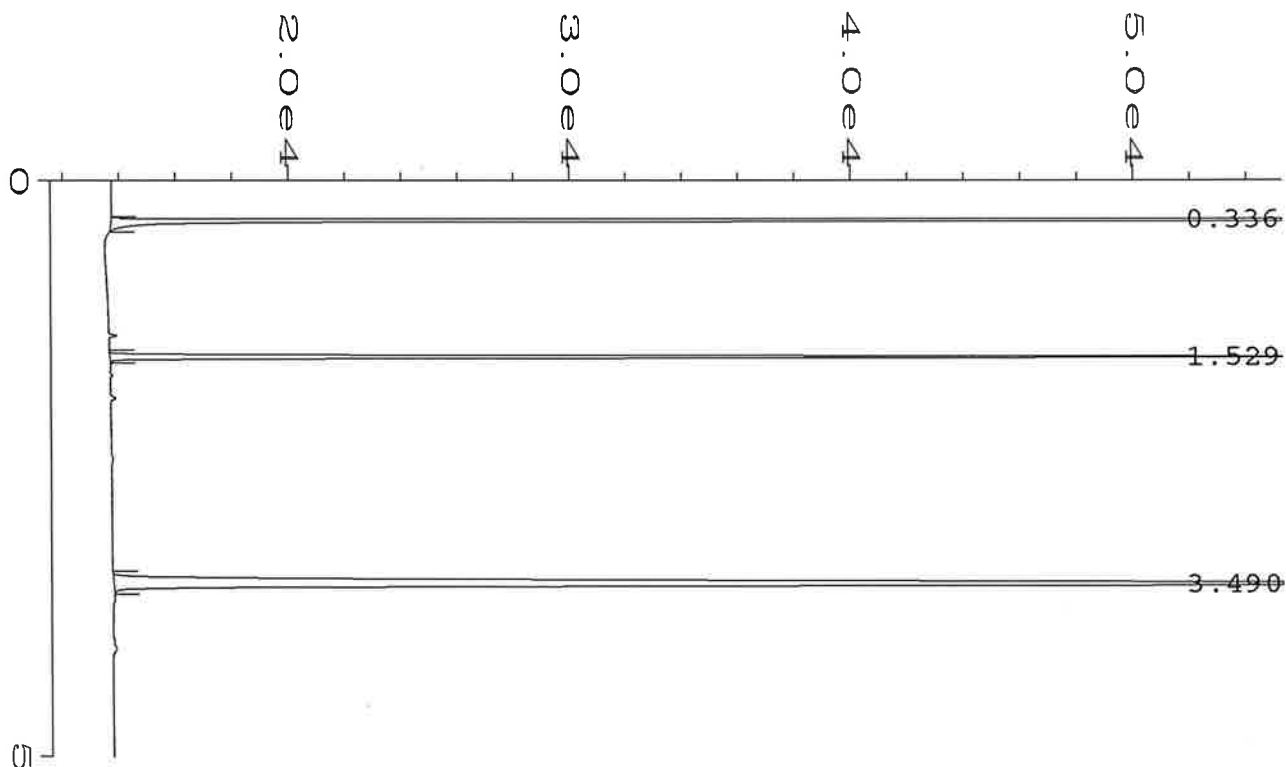
Data File Name   : C:\CHEMPC\2\DATA\PWF\002F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : PETHIDINE STD.
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:08 PM
Report Created on: 28 Apr 97  04:14 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier      : 1

Page Number     : 1
Vial Number     : 2
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4.21
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\002F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	65762	BB	0.021	1	100.136	PETHIDINE
3.491	154866	BB	0.045	1-IR	23.753	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

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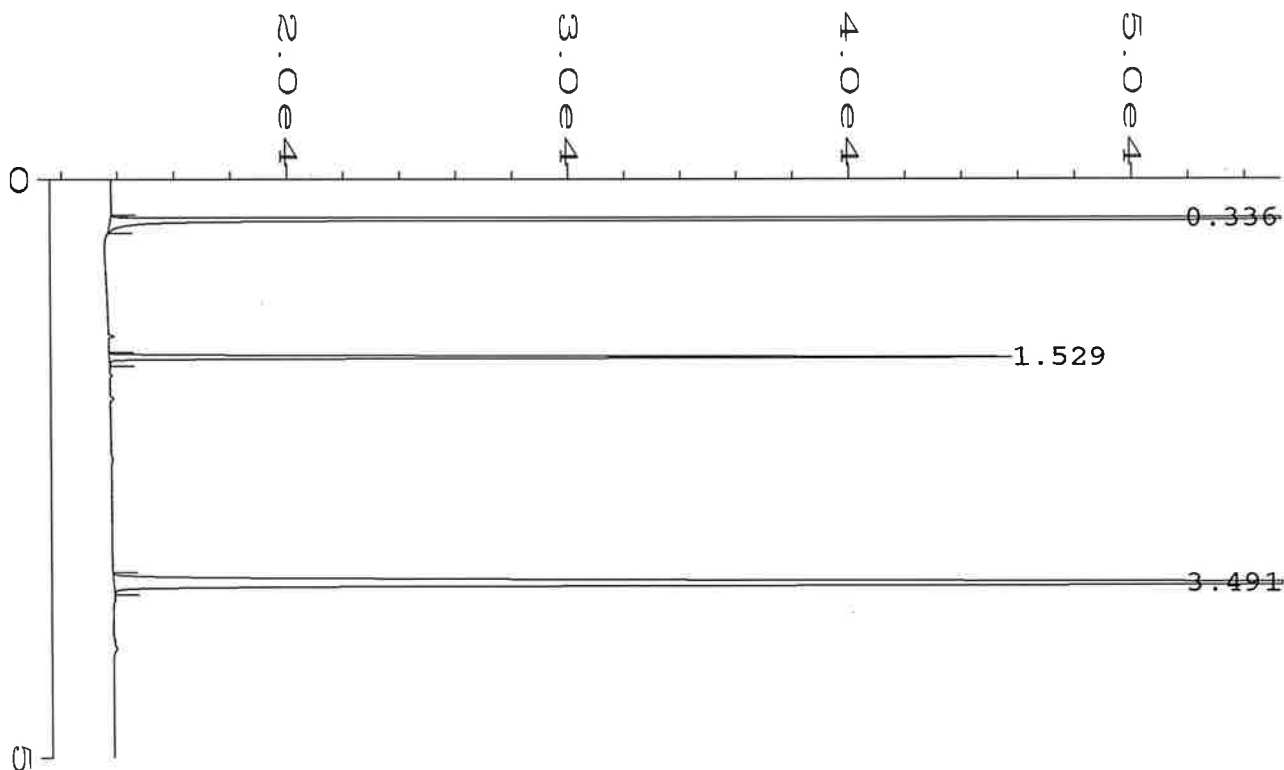
Data File Name   : C:\CHEMPC\2\DATA\PWF\003F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 100%
Run Time Bar Code:
Acquired on    : 28 Apr 97  04:15 PM
Report Created on: 28 Apr 97  04:21 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 3
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\003F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	60015	BB	0.022	1	97.370	PETHIDINE
3.490	152977	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

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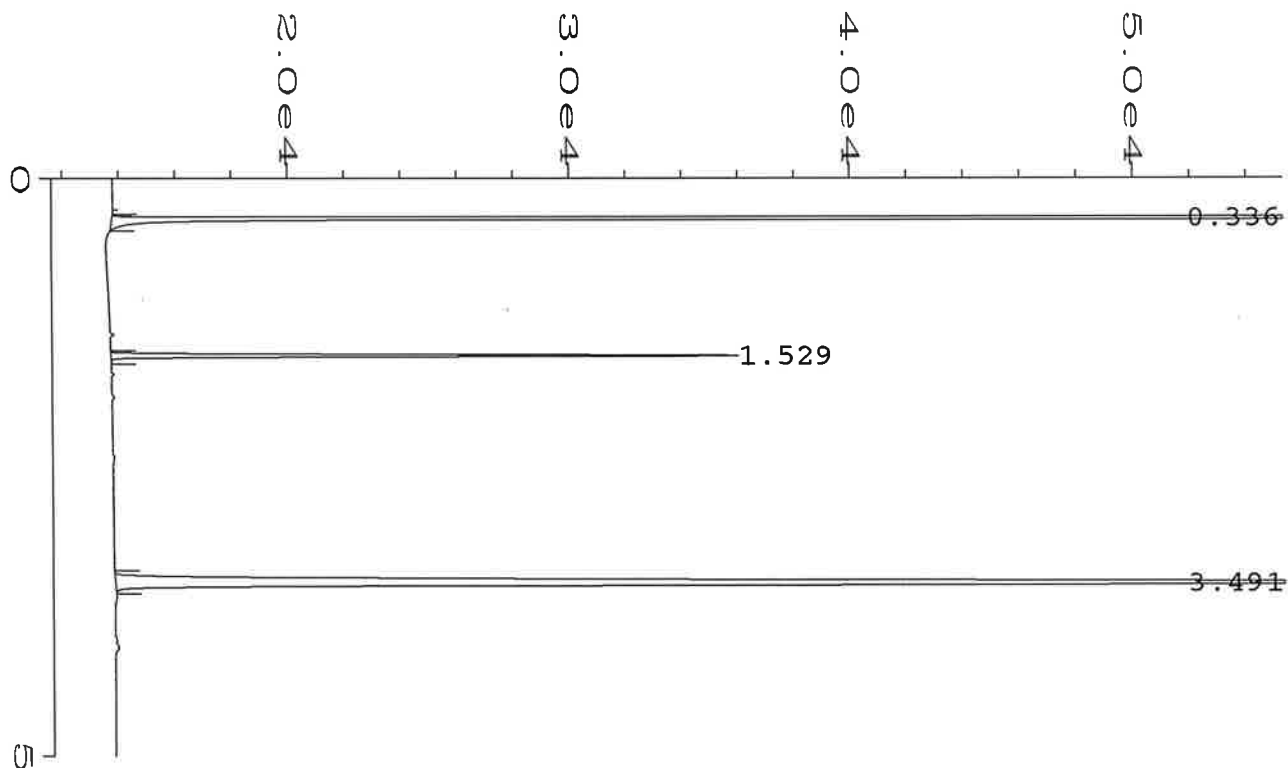
Data File Name   : C:\CHEMPC\2\DATA\PWF\004F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 75%
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:21 PM
Report Created on: 28 Apr 97  04:27 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 4
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\004F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	44016	BB	0.022	1	72.187	PETHIDINE
3.491	151337	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

```

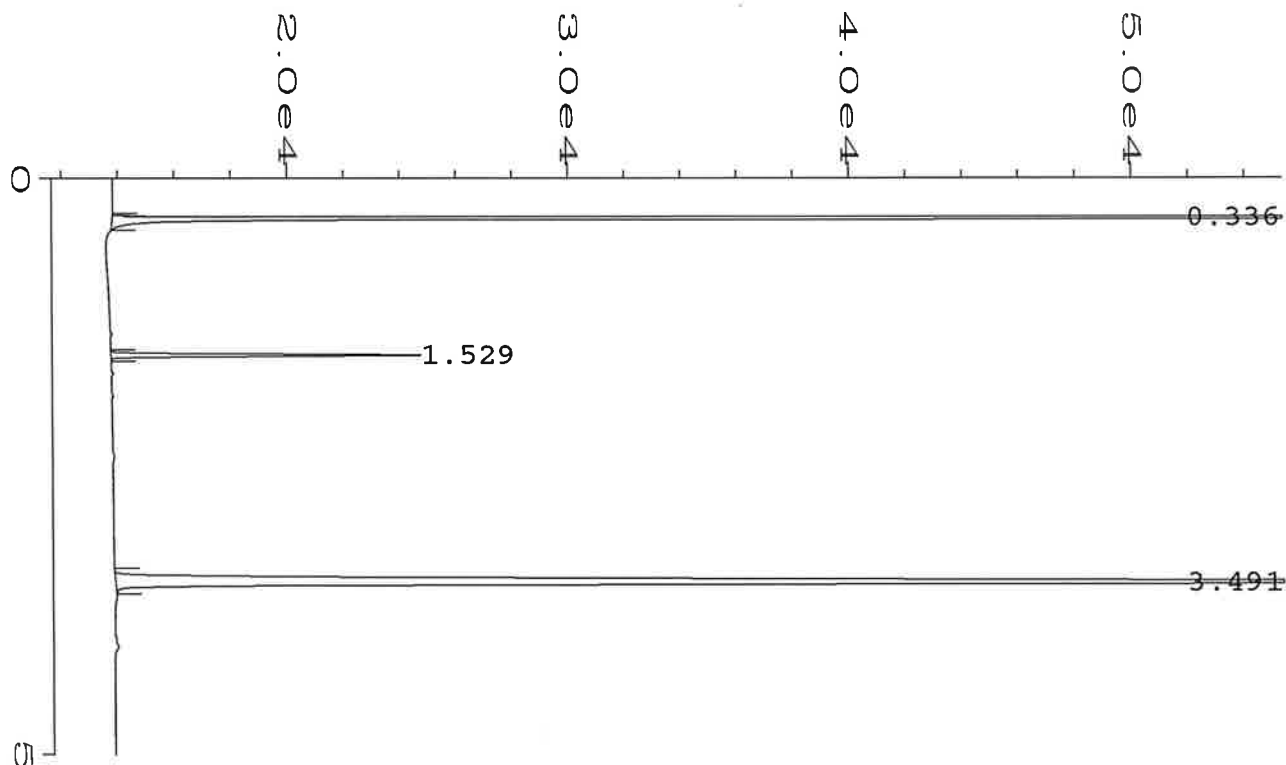
Data File Name   : C:\CHEMPC\2\DATA\PWF\005F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 50%
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:28 PM
Report Created on: 28 Apr 97  04:34 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number      : 5
Injection Number : 1
Sequence Line    : 3
Instrument Method: PETHQUA.MTH
Analysis Method  : PETHQUA.MTH
Sample Amount    : 4
ISTD Amount      : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\005F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	30622	BB	0.022	1	48.818	PETHIDINE
3.491	155686	BB	0.044	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

```

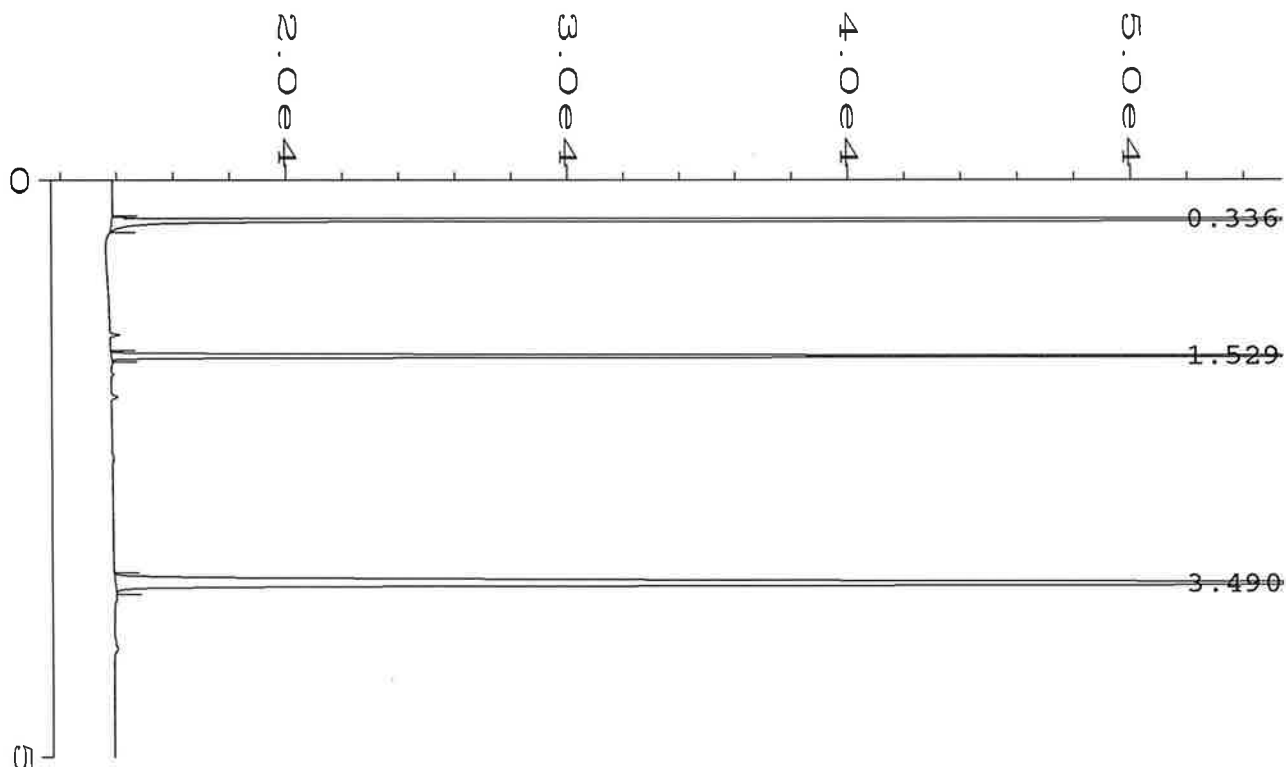
Data File Name   : C:\CHEMPC\2\DATA\PWF\006F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 25%
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:34 PM
Report Created on: 28 Apr 97  04:40 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 6
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\006F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	15144	BB	0.022	1	24.276	PETHIDINE
3.491	154826	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

```

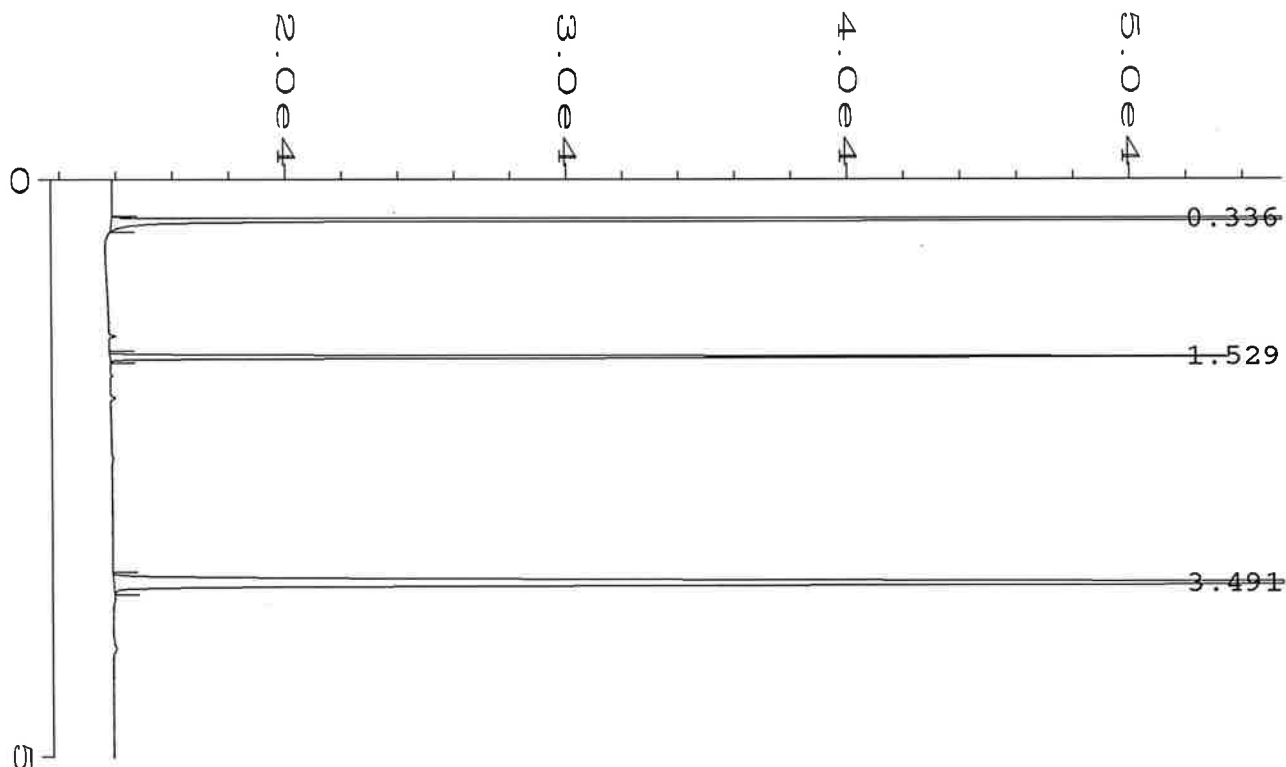
Data File Name   : C:\CHEMPC\2\DATA\PWF\007F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 100mg TEST SAMPL
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:41 PM
Report Created on: 28 Apr 97  04:47 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 7
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 5.00
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\007F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	74474	BB	0.022	1	95.194	PETHIDINE
3.490	155338	BB	0.044	1-IR	20.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

```

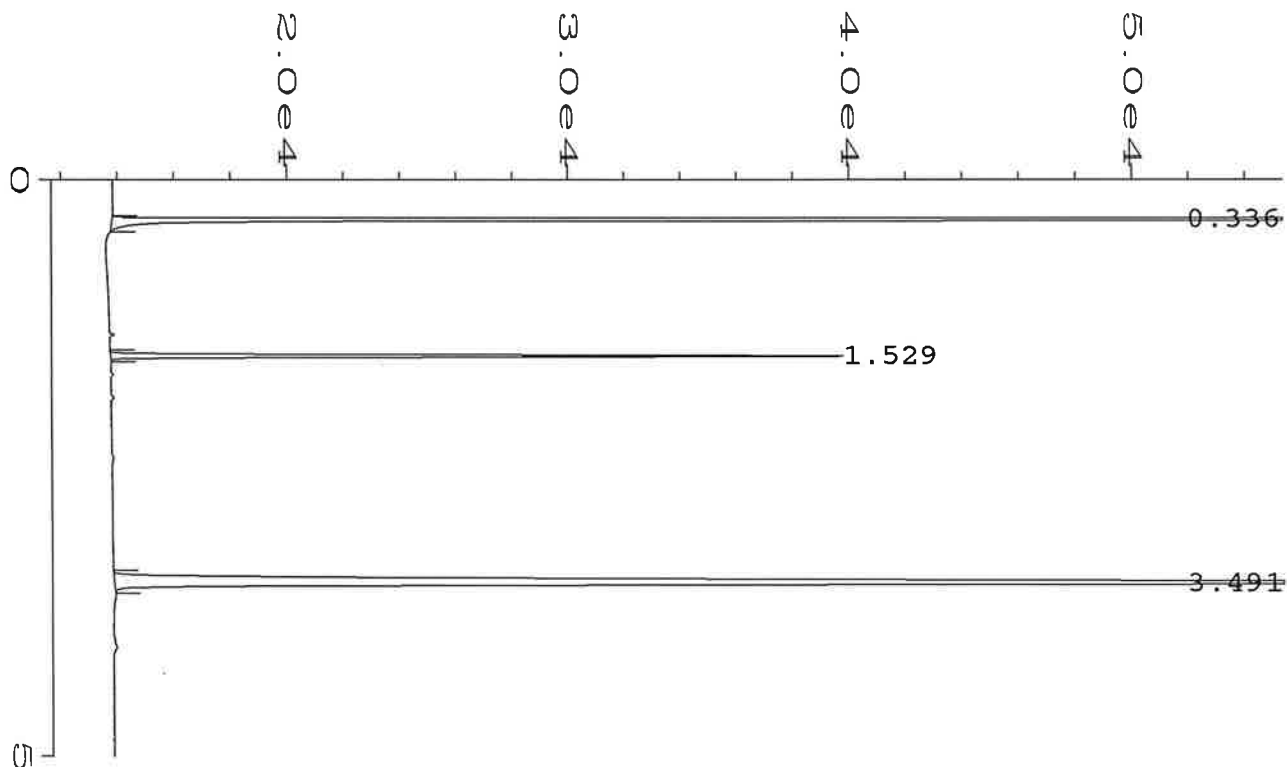
Data File Name   : C:\CHEMPC\2\DATA\PWF\008F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 75mg TEST SAMPLE
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:47 PM
Report Created on: 28 Apr 97  04:53 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier      : 1

Page Number     : 1
Vial Number     : 8
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 3.75
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\008F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	54092	BB	0.022	1	94.829	PETHIDINE
3.491	151014	BB	0.045	1-IR	26.667	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

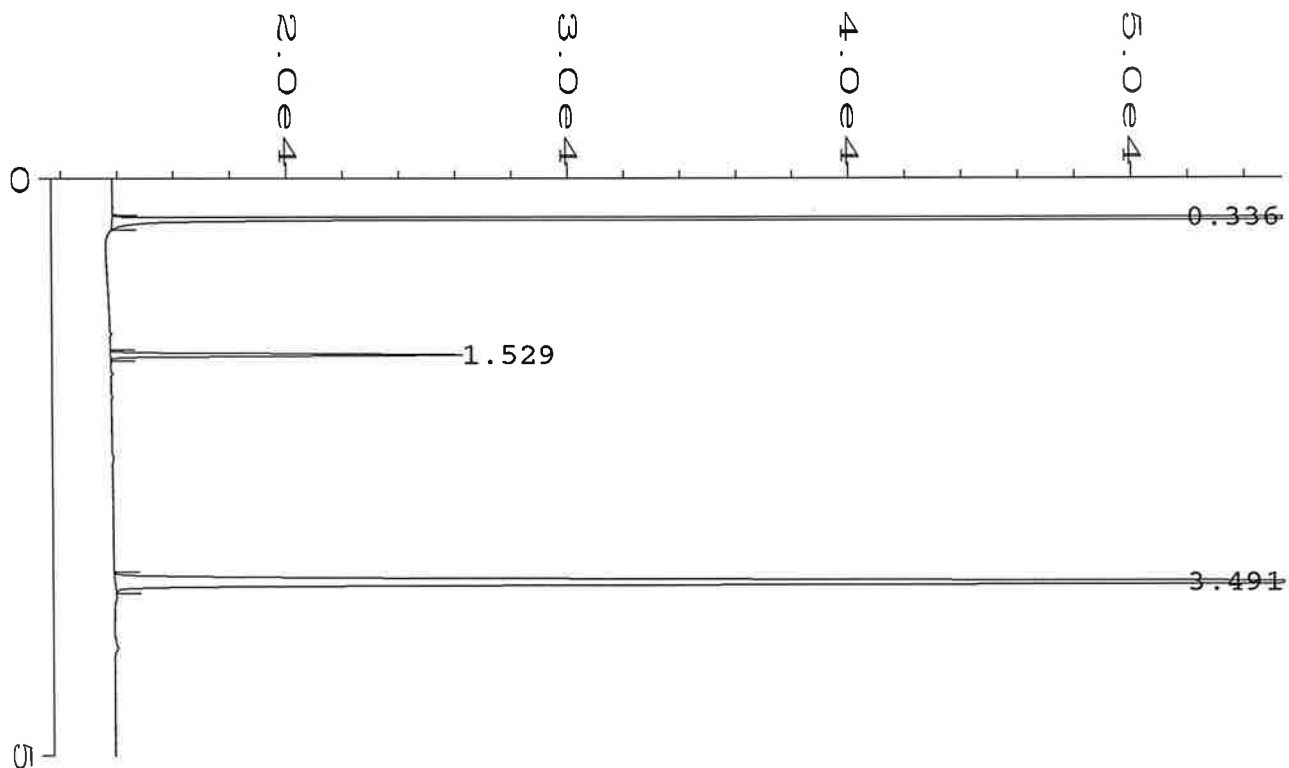
```

Data File Name   : C:\CHEMPC\2\DATA\PWF\009F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 50mg TEST SAMPLE
Run Time Bar Code:
Acquired on     : 28 Apr 97  04:53 PM
Report Created on: 28 Apr 97  05:00 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1
Page Number     : 1
Vial Number     : 9
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 2.50
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\009F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	35651	BB	0.022	1	91.408	PETHIDINE
3.491	154882	BB	0.045	1-IR	40.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%



Internal Standard Report

```

Data File Name   : C:\CHEMPC\2\DATA\PWF\010F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 25mg TEST SAMPL
Run Time Bar Code:
Acquired on    : 28 Apr 97  05:00 PM
Report Created on: 28 Apr 97  05:06 PM
Last Recalib on : 28 Apr 97  04:08 PM
Multiplier     : 1

Page Number      : 1
Vial Number     : 10
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 1.25
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\010F0301.D

Ret Time	Area	Type	Width	Ref#	Amount	%	Name
1.529	17534	BB	0.022	1	93.055		PETHIDINE
3.491	149650	BB	0.045	1-IR	80.000		FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%

Test SAMPLES: Pethidine HCl

4/29/97

25 mg/ml test SAMPLE:

Weighed 250 mg diluted to 10 ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10 ml with water = $6.25 \text{ mg}/10 \text{ ml}$ or 0.625 mg/ml

Pipetted 2 ml ~~and~~ or 1.25 mg and carried through quantitation Extraction

50 mg/ml test sample

Weighed 500 mg diluted to 10 ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10 ml with water = $12.5 \text{ mg}/10 \text{ ml}$ or 1.25 mg/ml

Pipetted 2 ml or 2.5 mg and carried through quantitation Extraction

75 mg/ml test sample

Weighed 750 mg diluted to 10 ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10 ml with water = $18.75 \text{ mg}/10 \text{ ml}$ or 1.875 mg/ml

Pipetted 2 ml or 3.75 mg and carried through quantitation Extraction

100 mg/ml test sample

Weighed 1000 mg diluted to 10 ml with deionized water

Pipetted $\frac{1}{4}$ ml and diluted to 10 ml with water = $25 \text{ mg}/10 \text{ ml}$ or 2.5 mg/ml

Pipetted 2 ml or 5 mg and carried through quantitation Extraction

RESULTS:

25 mg/ml sample = 93.773% pethidine = 24.44 mg pethidine

50 mg/ml sample = 93.030% pethidine = 46.515 mg pethidine

75 mg/ml sample = 95.833% pethidine = 71.87 mg pethidine

100 mg/ml sample = 95.458% pethidine = 95.458 mg pethidine

Note: I used completely new test samples - weighed, pipetted, and extracted

Calibration Report

```

=====
Data File Name   : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator        : PWF                               Page Number       : 1
Instrument       : GAS CHROM                         Vial Number        : 1
Sample Name     : PETHIDINE STD.                   Injection Number   : 1
Run Time Bar Code:                               Sequence Line      : 2
Acquired on     : 29 Apr 97  08:21 AM               Instrument Method: PETHQUA.MTH
Report Created on: 29 Apr 97  08:27 AM               Analysis Method   : PETHQUA.MTH
Last Recalib on : 28 APR 97  04:08 PM               Sample Amount     : 4.21
Multiplier      : 1                                 ISTD Amount       : 1
=====
  
```

Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref Istd I#	Name
1	1.524	1	4.21	6.5377e-005	1	PETHIDINE
2	3.489	1	1.0	6.555e-006	Ref ISTD 1	FLUORANTHENE

Calibration Settings

Title:

```

Preference window:          5.000 %
Reference window:          5.000 %
Units of amount:           ng/ul
Multiplier:                 1.0
RF uncal peaks:             0.0
Sample Amount:              0.0
  
```

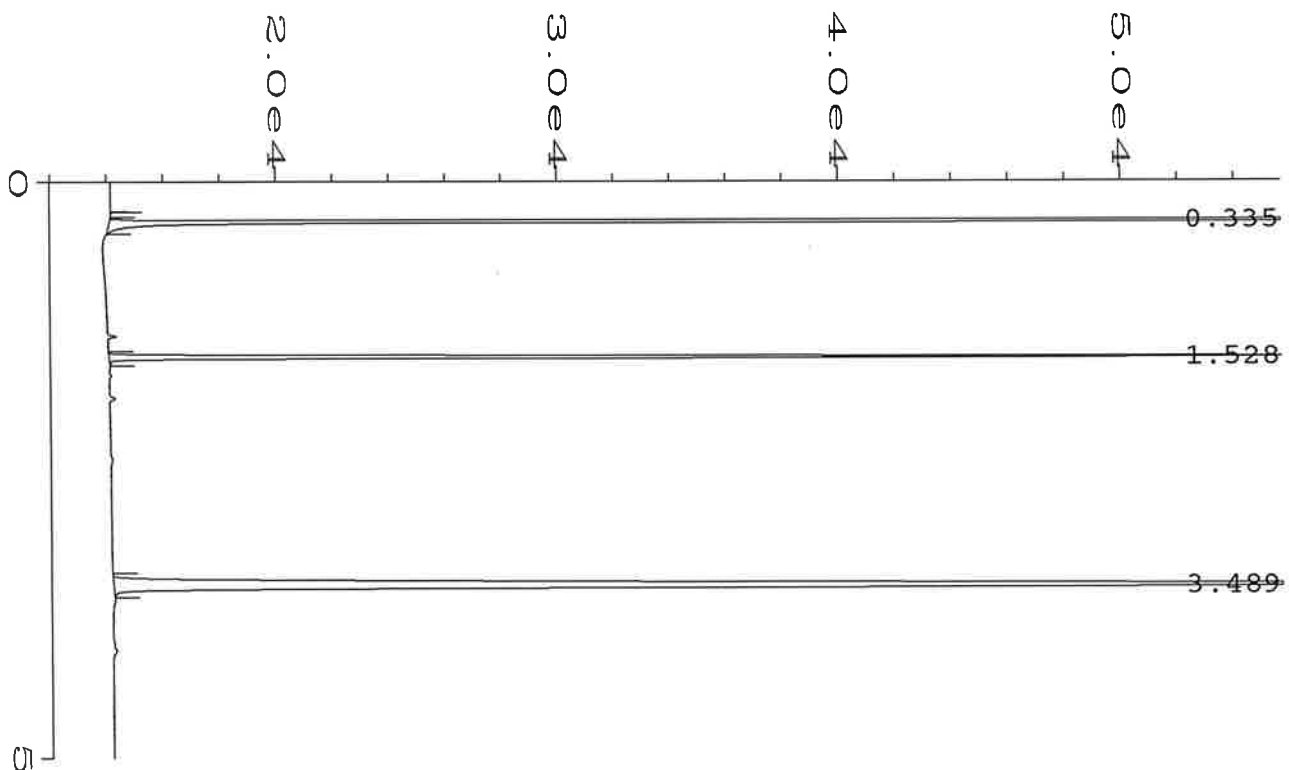
Sample ISTD Information

I#	Amount
1	1.0

Multilevel Information

```

Fit:      Linear
Origin:   Force
  
```



Internal Standard Report

```

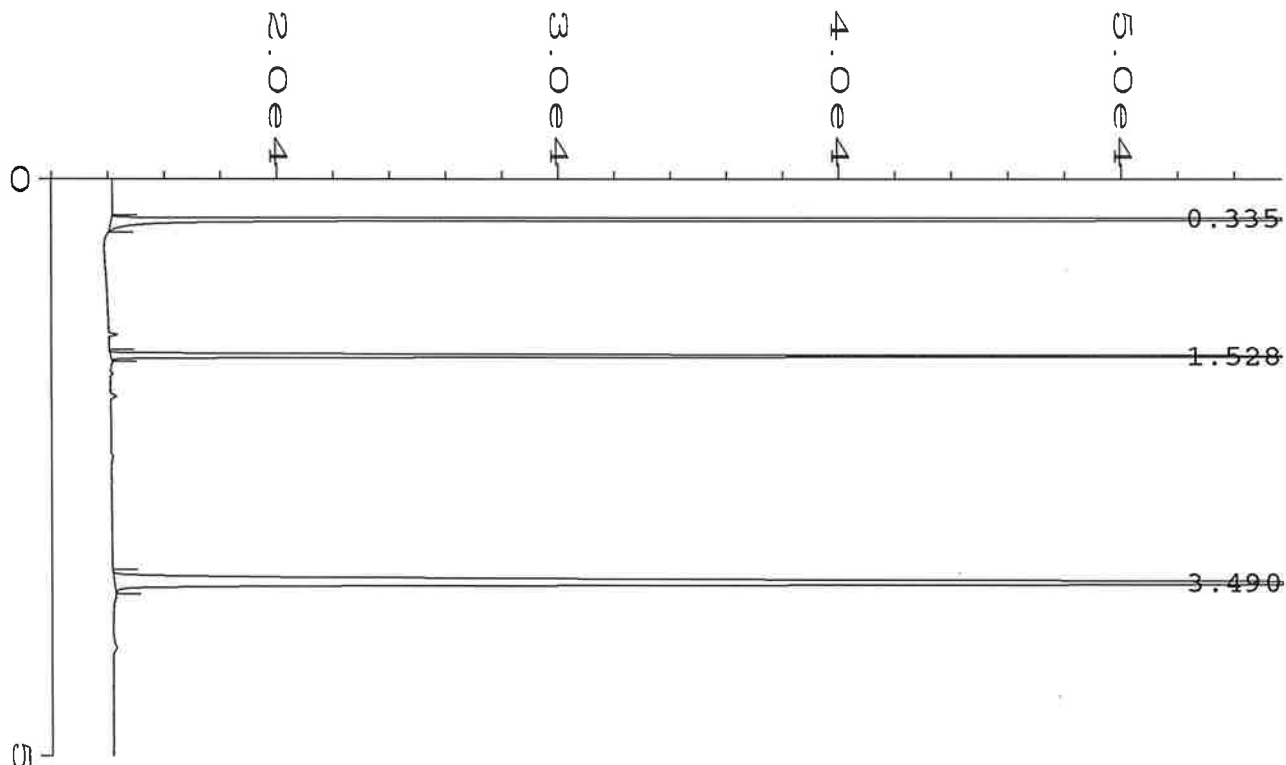
Data File Name   : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : PETHIDINE STD.
Run Time Bar Code:
Acquired on     : 29 Apr 97 08:21 AM
Report Created on: 29 Apr 97 08:27 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 1
Injection Number : 1
Sequence Line   : 2
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4.21
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\001F0201.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.528	64396	BB	0.022	1	100.000	PETHIDINE
3.489	152556	BB	0.044	1-IR	23.753	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.489	0.0%



Internal Standard Report

Data File Name : C:\CHEMPC\2\DATA\PWF\002F0301.D
 Operator : PWF Page Number : 1
 Instrument : GAS CHROM Vial Number : 2
 Sample Name : PETHIDINE STD. Injection Number : 1
 Run Time Bar Code: Sequence Line : 3
 Acquired on : 29 Apr 97 08:28 AM Instrument Method: PETHQUA.MTH
 Report Created on: 29 Apr 97 08:34 AM Analysis Method : PETHQUA.MTH
 Last Recalib on : 29 Apr 97 08:27 AM Sample Amount : 4.21
 Multiplier : 1 ISTD Amount : 1

Sig. 1 in C:\CHEMPC\2\DATA\PWF\002F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.528	68192	BB	0.022	1	100.084	PETHIDINE
3.490	161416	BB	0.044	1-IR	23.753	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

```

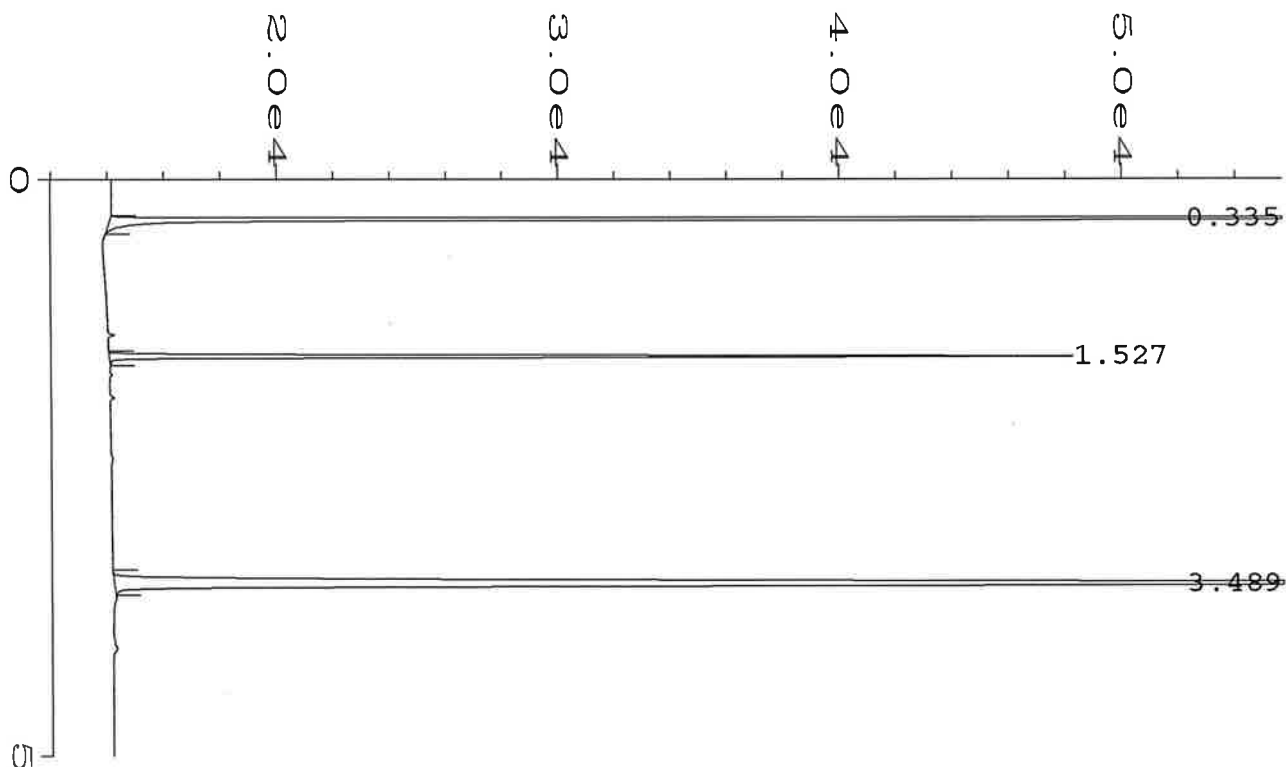
Data File Name   : C:\CHEMPC\2\DATA\PWF\003F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 100%
Run Time Bar Code:
Acquired on     : 29 Apr 97  08:34 AM
Report Created on: 29 Apr 97  08:41 AM
Last Recalib on : 29 Apr 97  08:27 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 3
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\003F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.528	59571	BB	0.022	1	97.056	PETHIDINE
3.489	153041	BB	0.043	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.489	0.0%



Internal Standard Report

```

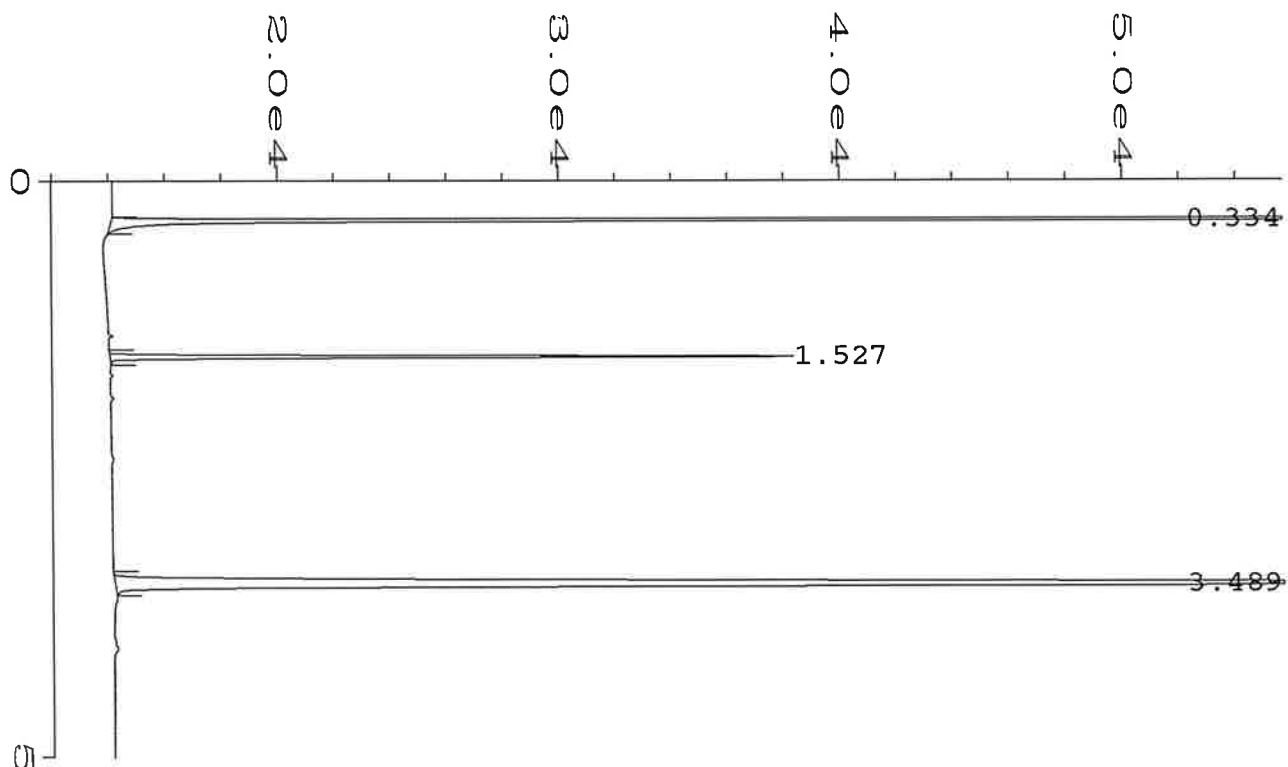
Data File Name   : C:\CHEMPC\2\DATA\PWF\004F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 75%
Run Time Bar Code:
Acquired on     : 29 Apr 97  08:41 AM
Report Created on: 29 Apr 97  08:47 AM
Last Recalib on : 29 Apr 97  08:27 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 4
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\004F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.527	47770	BB	0.022	1	72.894	PETHIDINE
3.489	163405	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.489	0.0%



Internal Standard Report

```

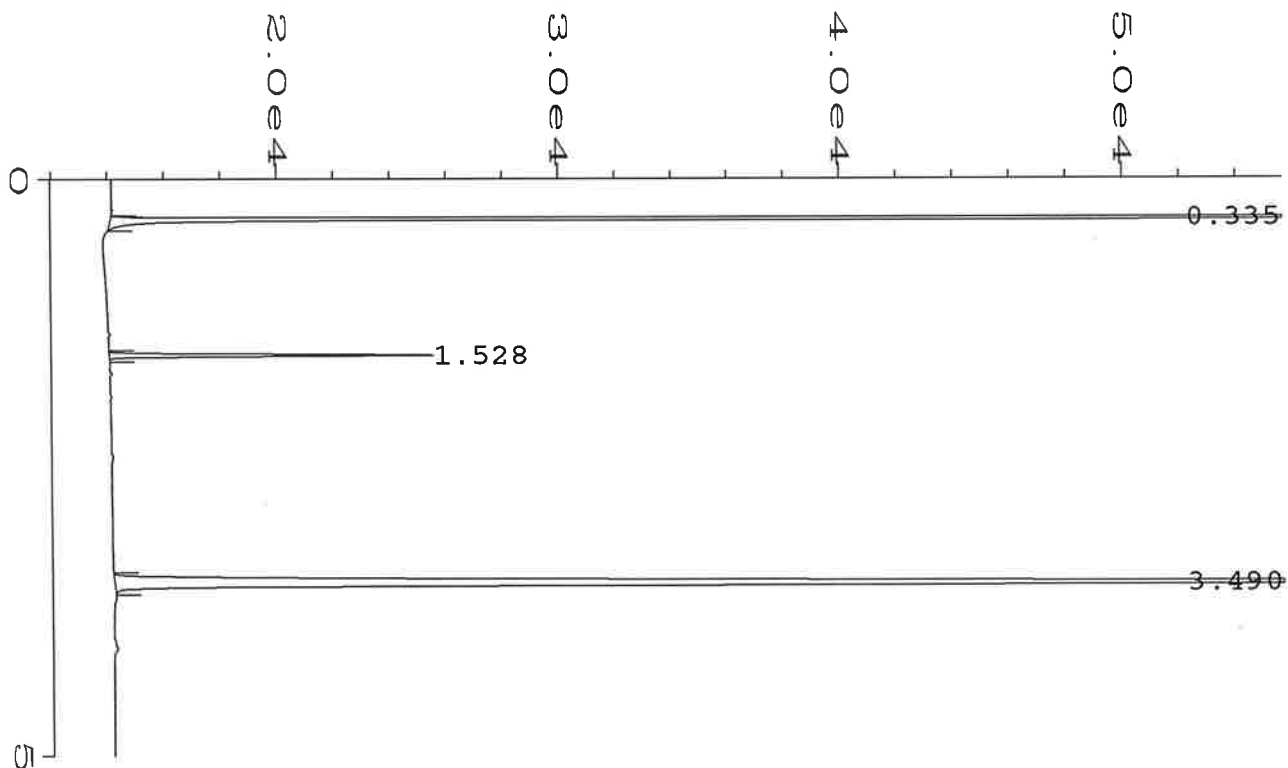
Data File Name   : C:\CHEMPC\2\DATA\PWF\005F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 50%
Run Time Bar Code:
Acquired on    : 29 Apr 97 08:47 AM
Report Created on: 29 Apr 97 08:53 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 5
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 4
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\005F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.527	33430	BB	0.022	1	49.202	PETHIDINE
3.489	169417	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.489	0.0%



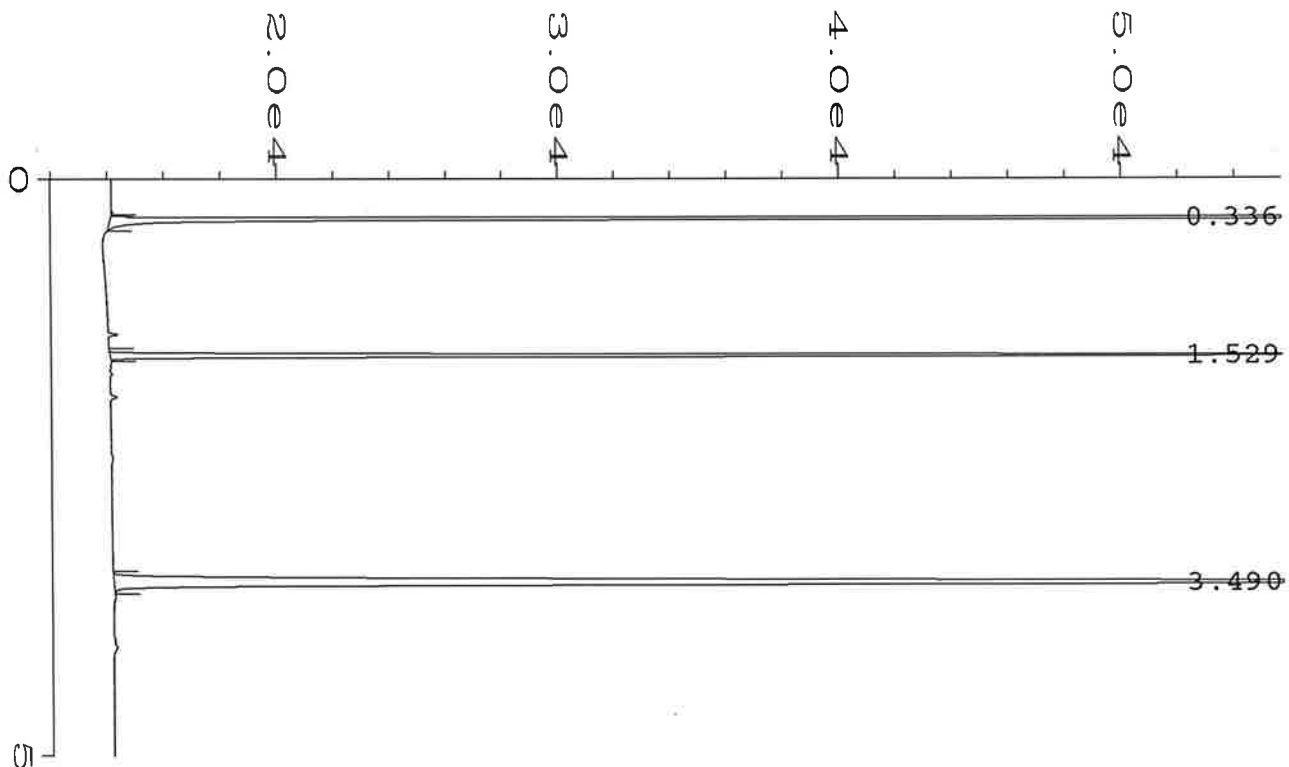
Internal Standard Report

Data File Name : C:\CHEMPC\2\DATA\PWF\006F0301.D
 Operator : PWF Page Number : 1
 Instrument : GAS CHROM Vial Number : 6
 Sample Name : 25% Injection Number : 1
 Run Time Bar Code: Sequence Line : 3
 Acquired on : 29 Apr 97 08:54 AM Instrument Method: PETHQUA.MTH
 Report Created on: 29 Apr 97 09:00 AM Analysis Method : PETHQUA.MTH
 Last Recalib on : 29 Apr 97 08:27 AM Sample Amount : 4
 Multiplier : 1 ISTD Amount : 1

Sig. 1 in C:\CHEMPC\2\DATA\PWF\006F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.528	15630	BB	0.022	1	24.450	PETHIDINE
3.490	159397	BB	0.045	1-IR	25.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

```

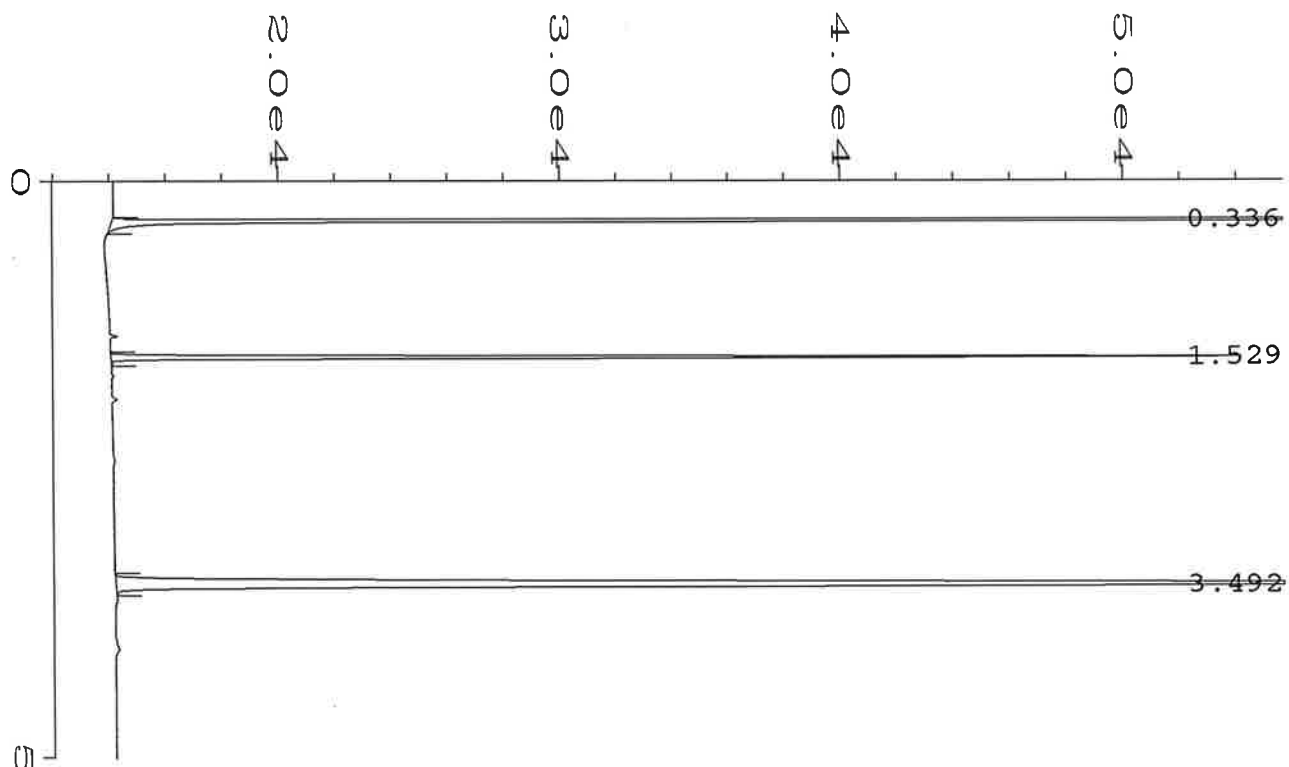
Data File Name   : C:\CHEMPC\2\DATA\PWF\007F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 100mg TEST SAMPL
Run Time Bar Code:
Acquired on     : 29 Apr 97 09:00 AM
Report Created on: 29 Apr 97 09:06 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier      : 1

Page Number     : 1
Vial Number     : 7
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 5.00
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\007F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	74735	BB	0.021	1	95.458	PETHIDINE
3.490	156170	BB	0.044	1-IR	20.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

```

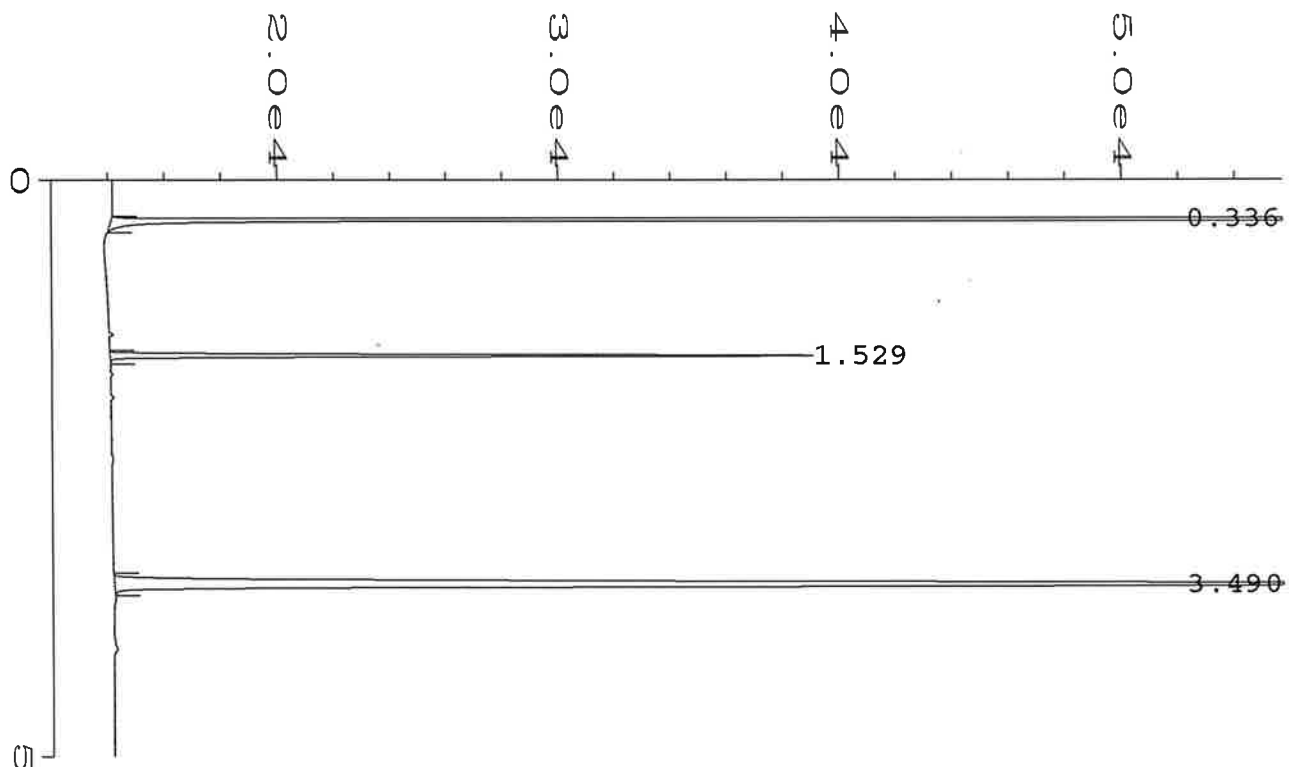
Data File Name   : C:\CHEMPC\2\DATA\PWF\008F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 75mg TEST SAMPLE
Run Time Bar Code:
Acquired on     : 29 Apr 97 09:07 AM
Report Created on: 29 Apr 97 09:13 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier      : 1

Page Number     : 1
Vial Number     : 8
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 3.75
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\008F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	55014	BB	0.022	1	95.833	PETHIDINE
3.492	152681	BB	0.044	1-IR	26.667	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.492	0.1%



Internal Standard Report

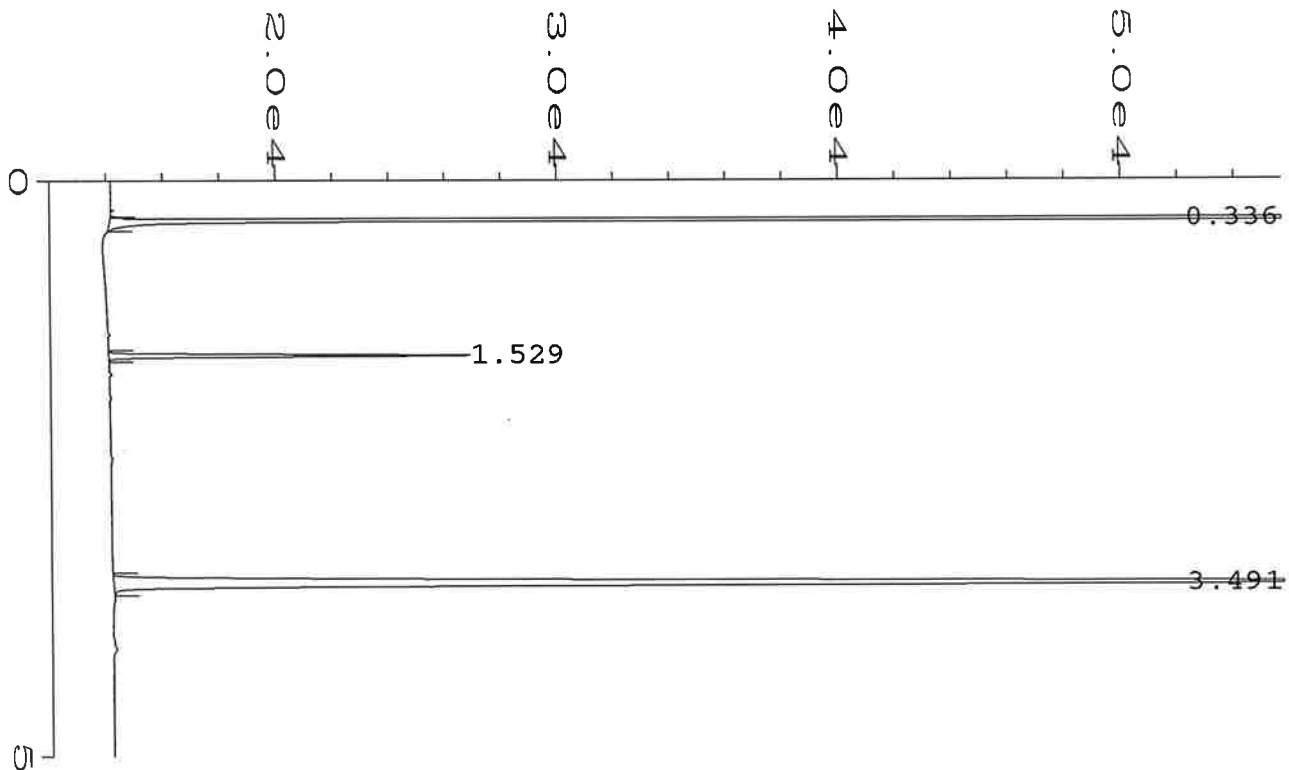
```

Data File Name   : C:\CHEMPC\2\DATA\PWF\009F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 50mg TEST SAMPLE
Run Time Bar Code:
Acquired on    : 29 Apr 97 09:13 AM
Report Created on: 29 Apr 97 09:19 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier     : 1
Page Number    : 1
Vial Number    : 9
Injection Number : 1
Sequence Line  : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 2.50
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\009F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	34621	BB	0.022	1	93.030	PETHIDINE
3.490	148467	BB	0.045	1-IR	40.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.490	0.0%



Internal Standard Report

```

Data File Name   : C:\CHEMPC\2\DATA\PWF\010F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : 25mg TEST SAMPL
Run Time Bar Code:
Acquired on     : 29 Apr 97 09:20 AM
Report Created on: 29 Apr 97 09:26 AM
Last Recalib on : 29 Apr 97 08:27 AM
Multiplier     : 1

Page Number      : 1
Vial Number     : 10
Injection Number : 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 1.25
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\010F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.529	17722	BB	0.022	1	93.773	PETHIDINE
3.491	150789	BB	0.044	1-IR	80.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.489	3.491	0.1%

4/30/97
JTB

Control Syringes:

Control 1 - 50mg/ml

Pipetted $\frac{1}{4}$ ml and diluted to 10mls with deionized water =
~~12.5mg~~ 12.5mg/10ml or 1.25mg/ml

Pipetted 2ml or 2.5mg and carried through quantitation Extra

Control 2 - 75mg/ml

Pipetted $\frac{1}{4}$ ml and diluted to 10mls with deionized water =
18.75mg/10ml or 1.875mg/ml

Pipetted 2ml or 3.75mg and carried through quantitation Ext.

Control 3 - 100mg/ml

Pipetted $\frac{1}{4}$ ml and diluted to 10mls with deionized water =
25mg/10ml or 2.5mg/ml

Pipetted 2mls or 5mg and carried through quantitation.
Extraction

RESULTS:

Control 1 50mg/ml = 105.95% pethidine = 52.9mg pethidine

Control 2 75mg/ml = 103.35% pethidine = 77.5mg pethidine

Control 3 100mg/ml = 99.08% pethidine = 99.08mg pethidine

=====
 Calibration Report
 =====

a File Name : C:\CHEMPC\2\DATA\PWF\001F0201.D
 Operator : PWF Page Number : 1
 Instrument : GAS CHROM Vial Number : 1
 Sample Name : PETHIDINE STD. Injection Number : 1
 Run Time Bar Code: Sequence Line : 2
 Acquired on : 30 Apr 97 11:50 AM Instrument Method: PETHQUA.MTH
 Report Created on: 30 Apr 97 01:14 PM Analysis Method : PETHQUA.MTH
 Last Recalib on : 30 APR 97 01:06 PM Sample Amount : 4.45
 Multiplier : 1 ISTD Amount : 1

Calibration Table

Pk#	RT	Lvl	ng/ul	Amt/Area	Ref Istd I#	Name
1	1.524	1	4.45	6.9248e-005	1	PETHIDINE
2	3.481	1	1.0	6.5456e-006	Ref ISTD 1	FLUORANTHENE

Calibration Settings

Title:

Preference window: 5.000 %
 Non-reference window: 5.000 %
 Units of amount: ng/ul
 Multiplier: 1.0
 RF uncal peaks: 0.0
 Sample Amount: 0.0

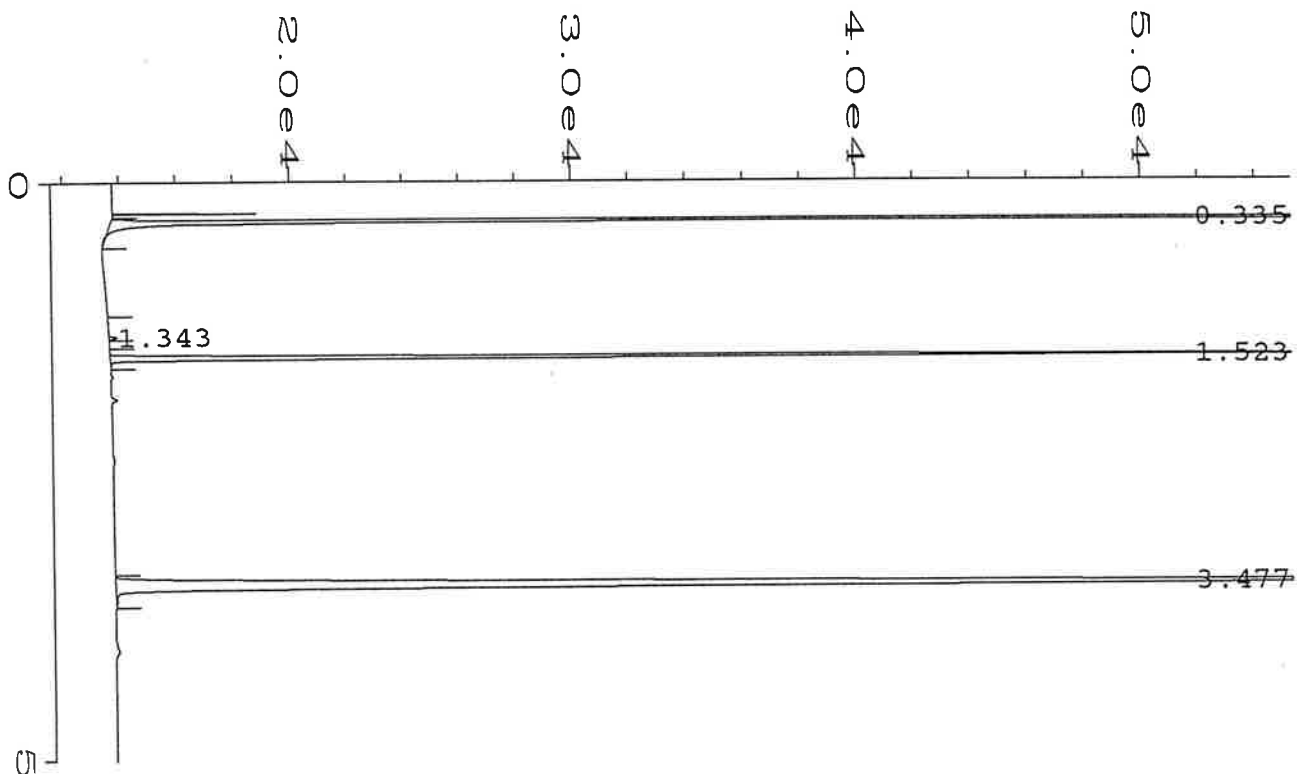
Sample ISTD Information

I#	Amount
1	1.0

Multilevel Information

Fit: Linear
 Origin: Force

=====



Internal Standard Report

```

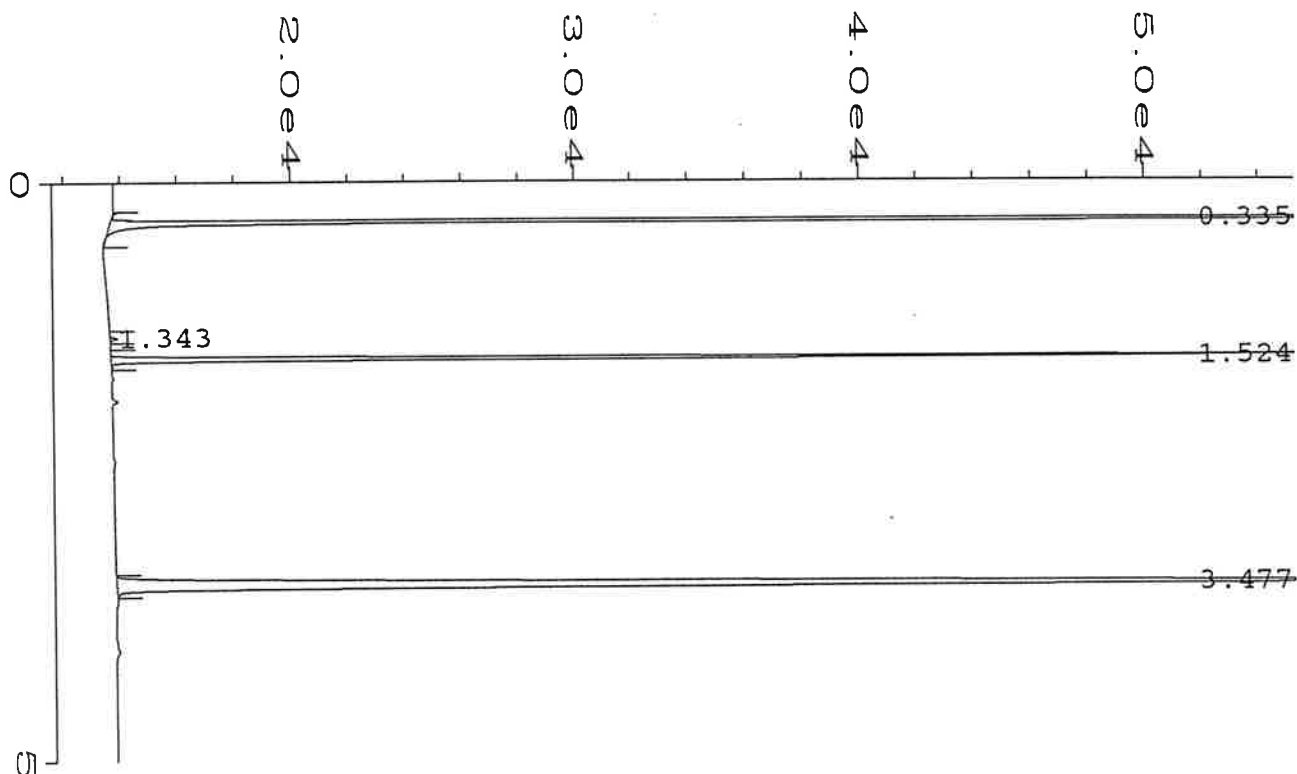
Data File Name      : C:\CHEMPC\2\DATA\PWF\001F0201.D
Operator           : PWF
Instrument          : GAS CHROM
Sample Name        : PETHIDINE STD.
Run Time Bar Code  :
Acquired on        : 30 Apr 97  11:50 AM
Report Created on  : 30 Apr 97  01:14 PM
Last Recalib on   : 30 Apr 97  01:14 PM
Multiplier         : 1

Page Number        : 1
Vial Number        : 1
Injection Number   : 1
Sequence Line      : 2
Instrument Method   : PETHQUA.MTH
Analysis Method    : PETHQUA.MTH
Sample Amount      : 4.45
ISTD Amount        : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\001F0201.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.523	64262	BB	0.022	1	100.000	PETHIDINE
3.477	152774	BB	0.045	1-IR	22.472	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.481	3.477	-0.1%



Internal Standard Report

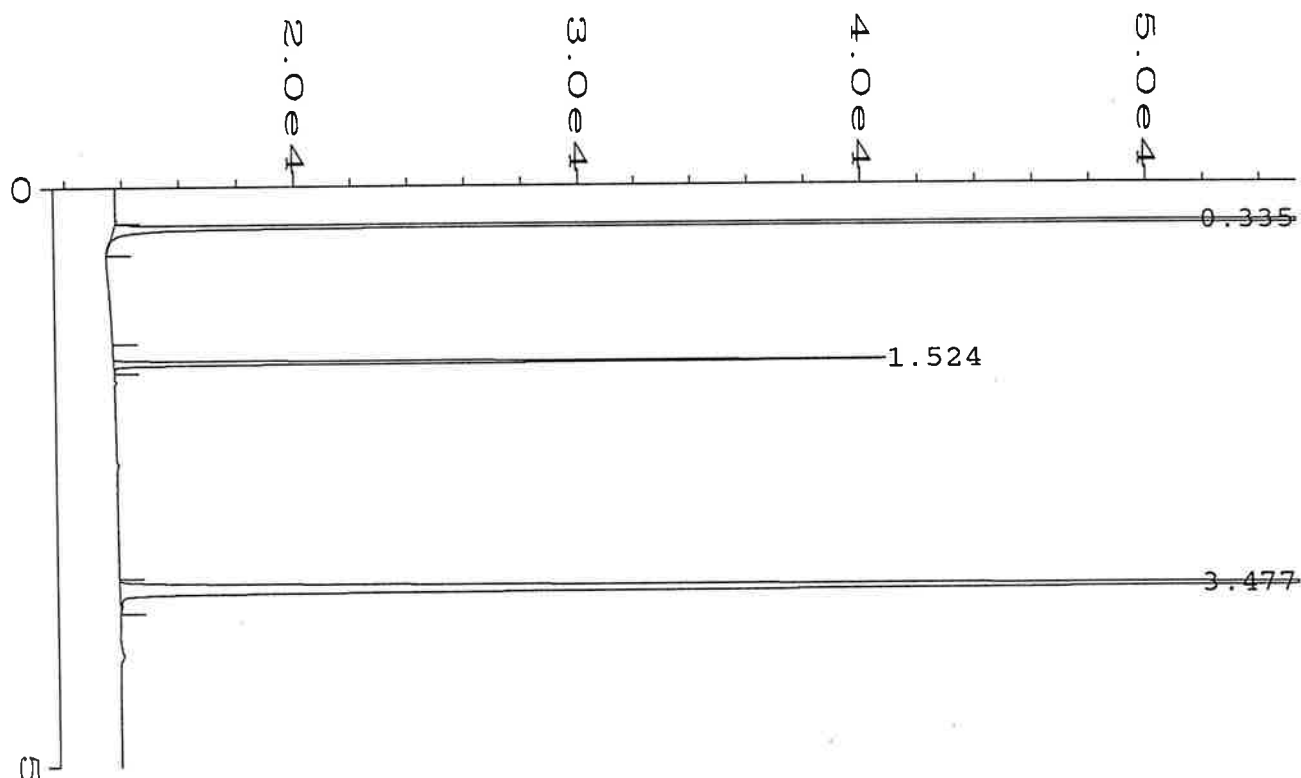
```

Data File Name      : C:\CHEMPC\2\DATA\PWF\002F0301.D
Operator            : PWF
Instrument           : GAS CHROM
Sample Name         : PETHIDINE STD.
Run Time Bar Code   :
Acquired on         : 30 Apr 97  11:57 AM
Report Created on   : 30 Apr 97  01:14 PM
Last Recalib on    : 30 Apr 97  01:14 PM
Multiplier          : 1
Page Number         : 1
Vial Number         : 2
Injection Number    : 1
Sequence Line       : 3
Instrument Method    : PETHQUA.MTH
Analysis Method     : PETHQUA.MTH
Sample Amount       : 4.45
ISTD Amount         : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\002F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.524	62806	BB	0.022	1	100.543	PETHIDINE
3.477	148506	BV	0.045	1-IR	22.472	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.481	3.477	-0.1%



Internal Standard Report

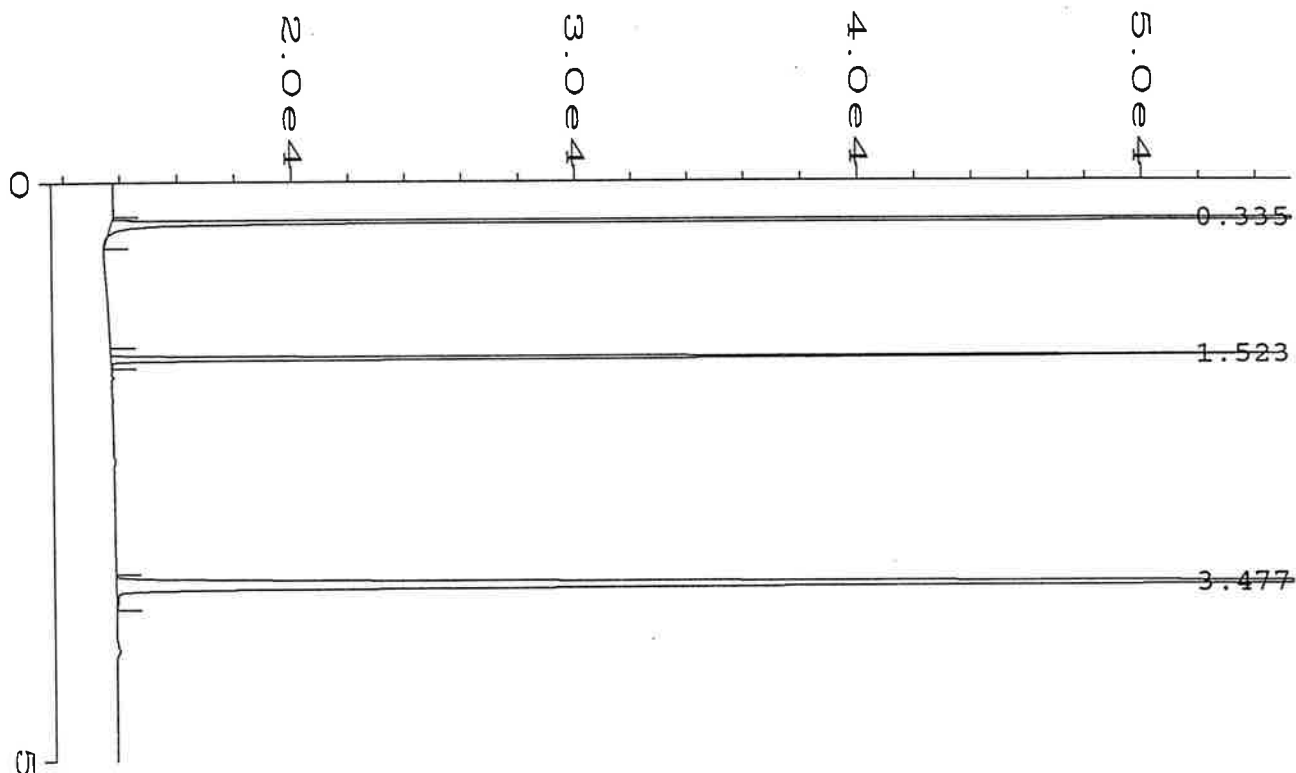
Data File Name : C:\CHEMPC\2\DATA\PWF\003F0301.D
 Operator : PWF
 Instrument : GAS CHROM
 Sample Name : CONTROL1 50
 Run Time Bar Code:
 Acquired on : 30 Apr 97 12:04 PM
 Report Created on: 30 Apr 97 01:15 PM
 Last Recalib on : 30 Apr 97 01:14 PM
 Multiplier : 1

Page Number : 1
 Vial Number : 3
 Injection Number : 1
 Sequence Line : 3
 Instrument Method: PETHQUA.MTH
 Analysis Method : PETHQUA.MTH
 Sample Amount : 2.50
 ISTD Amount : 1

Sig. 1 in C:\CHEMPC\2\DATA\PWF\003F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.524	38366	BB	0.022	1	105.957	PETHIDINE
3.477	153226	BB	0.045	1-IR	40.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.481	3.477	-0.1%



Internal Standard Report

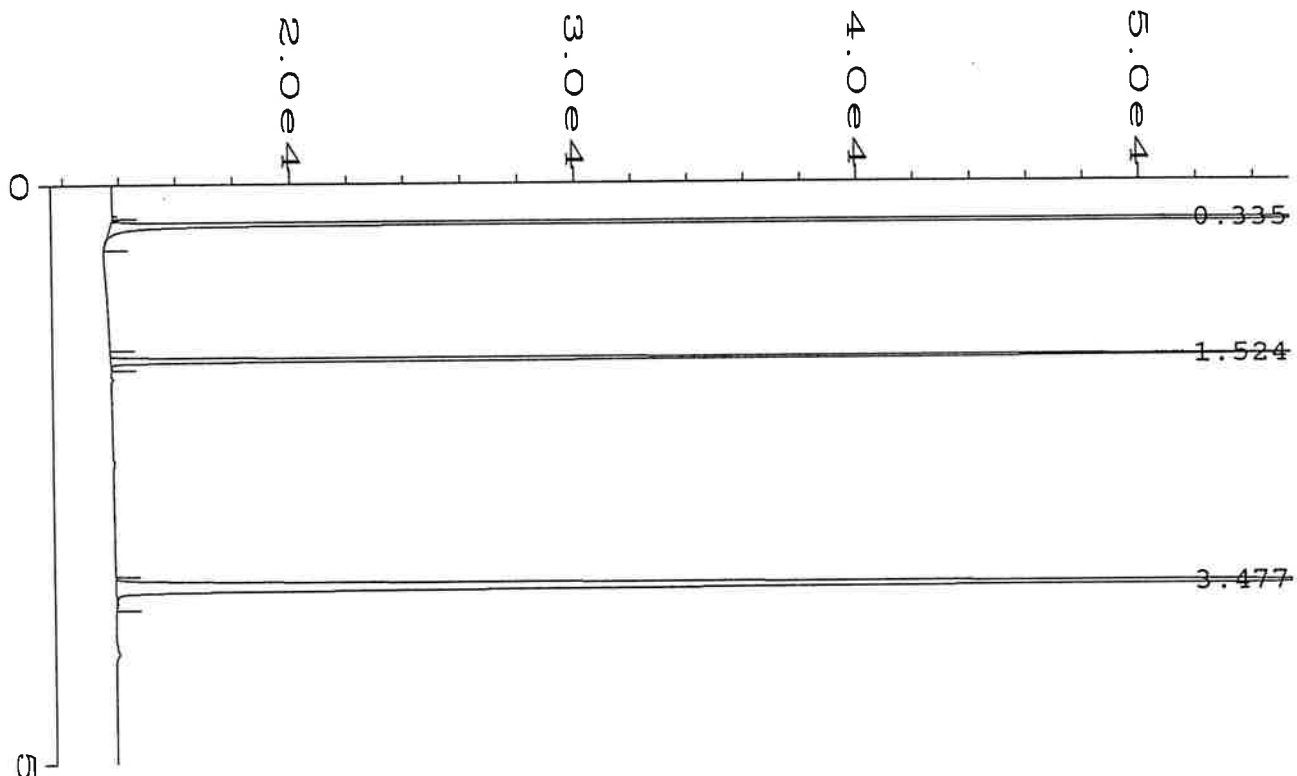
```

Data File Name   : C:\CHEMPC\2\DATA\PWF\004F0301.D
Operator        : PWF
Instrument       : GAS CHROM
Sample Name     : CONTROL 2 75
Run Time Bar Code:
Acquired on     : 30 Apr 97  12:10 PM
Report Created on: 30 Apr 97  01:15 PM
Last Recalib on : 30 Apr 97  01:14 PM
Multiplier     : 1
Page Number     : 1
Vial Number     : 4
Injection Number: 1
Sequence Line   : 3
Instrument Method: PETHQUA.MTH
Analysis Method : PETHQUA.MTH
Sample Amount   : 3.75
ISTD Amount     : 1
  
```

Sig. 1 in C:\CHEMPC\2\DATA\PWF\004F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.523	56814	BV	0.022	1	103.358	PETHIDINE
3.477	155073	BB	0.045	1-IR	26.667	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.481	3.477	-0.1%



Internal Standard Report

Data File Name : C:\CHEMPC\2\DATA\PWF\005F0301.D
 Operator : PWF
 Instrument : GAS CHROM
 Sample Name : CONTROL 3 100
 Run Time Bar Code:
 Acquired on : 30 Apr 97 12:17 PM
 Report Created on: 30 Apr 97 01:15 PM
 Last Recalib on : 30 Apr 97 01:14 PM
 Multiplier : 1

Page Number : 1
 Vial Number : 5
 Injection Number : 1
 Sequence Line : 3
 Instrument Method: PETHQUA.MTH
 Analysis Method : PETHQUA.MTH
 Sample Amount : 5.00
 ISTD Amount : 1

Sig. 1 in C:\CHEMPC\2\DATA\PWF\005F0301.D

Ret Time	Area	Type	Width	Ref#	Amount %	Name
1.524	70350	BB	0.022	1	99.084	PETHIDINE
3.477	150226	BB	0.044	1-IR	20.000	FLUORANTHENE

Time Reference Peak	Expected RT	Actual RT	Difference
2	3.481	3.477	-0.1%