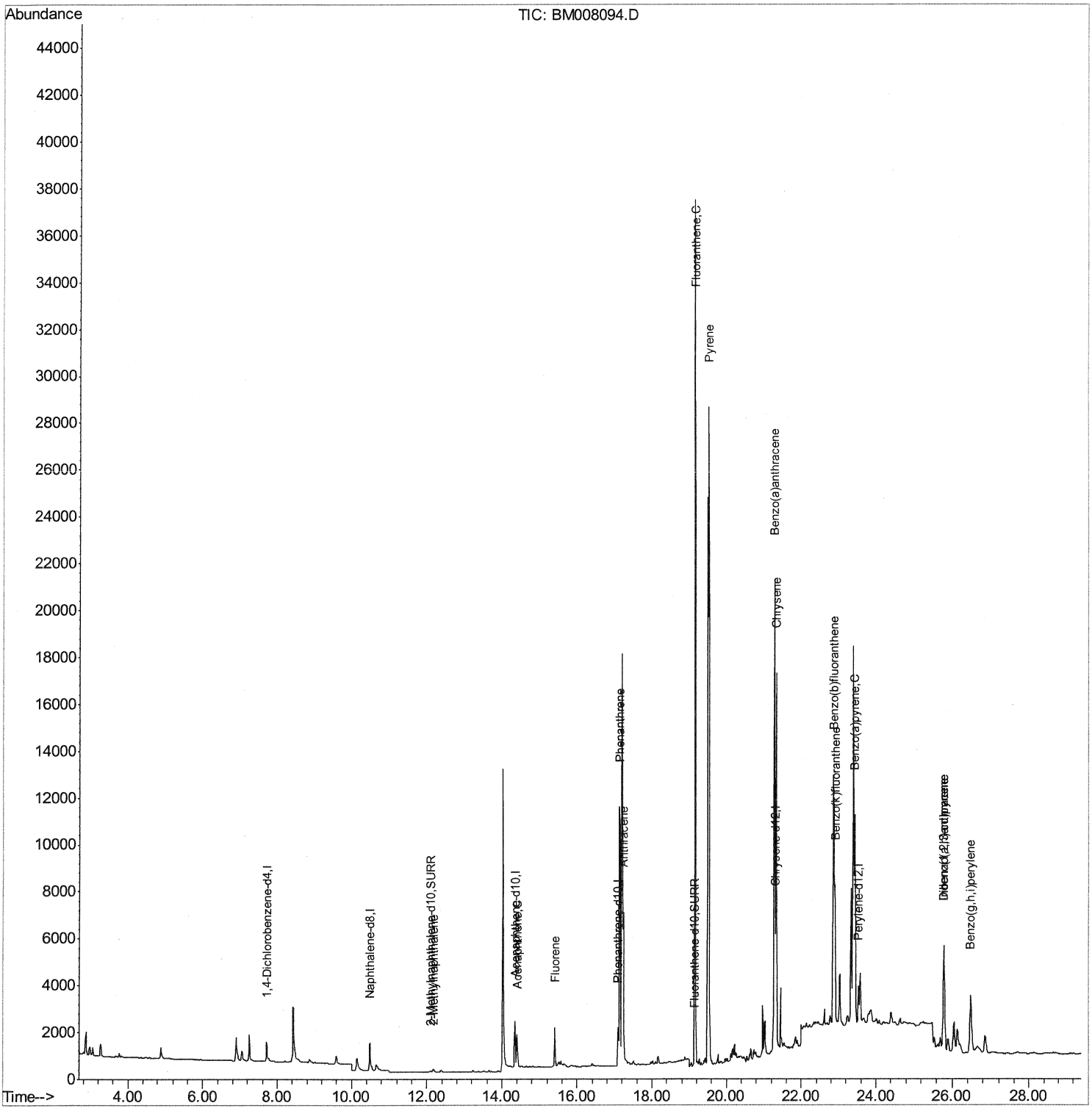
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:33:01 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM

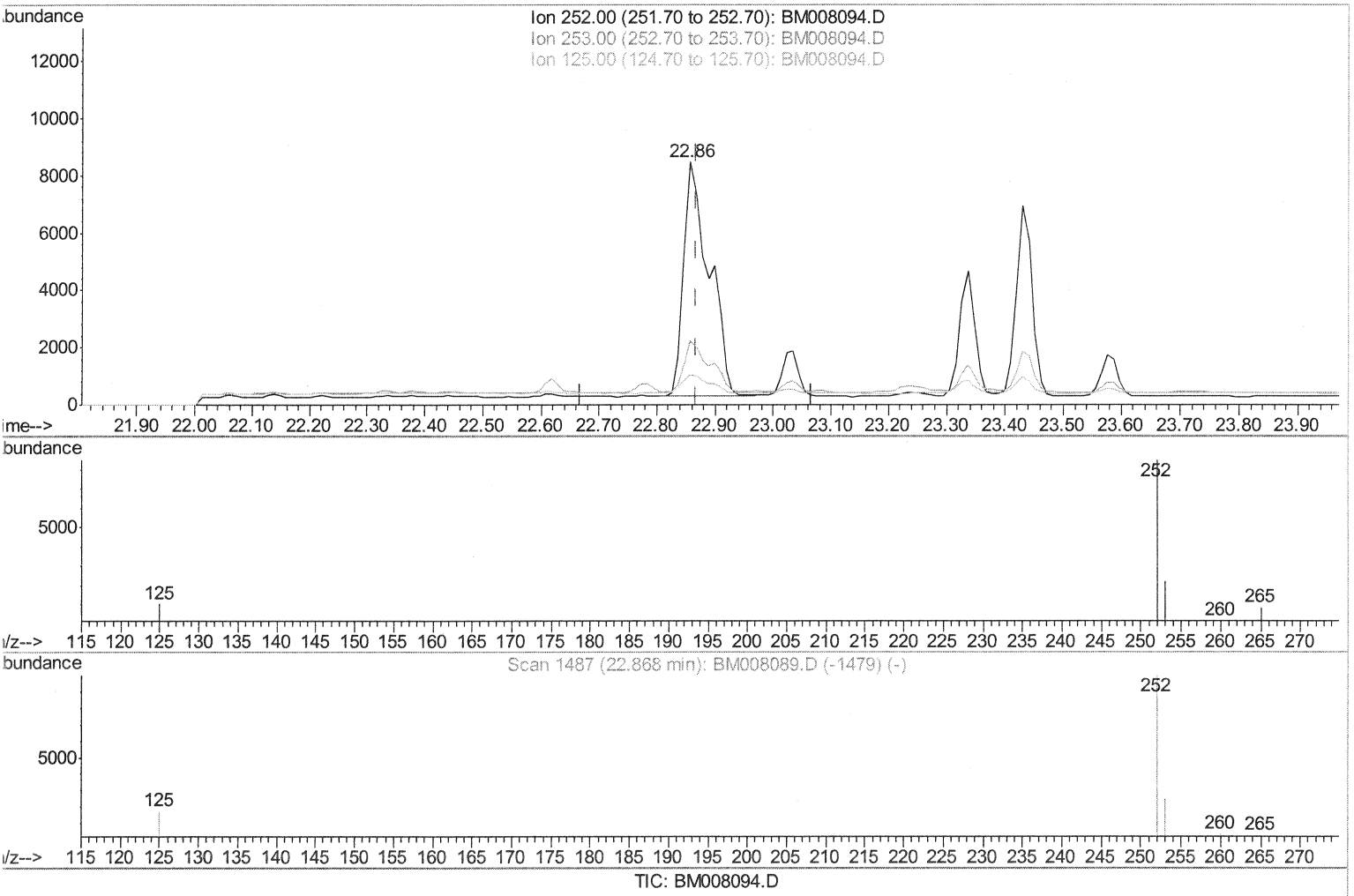


Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM




TIC: BM008094.D

(21) Benzo(b)fluoranthene

22.857min (-0.011) 2.69ng/ul

response 24843

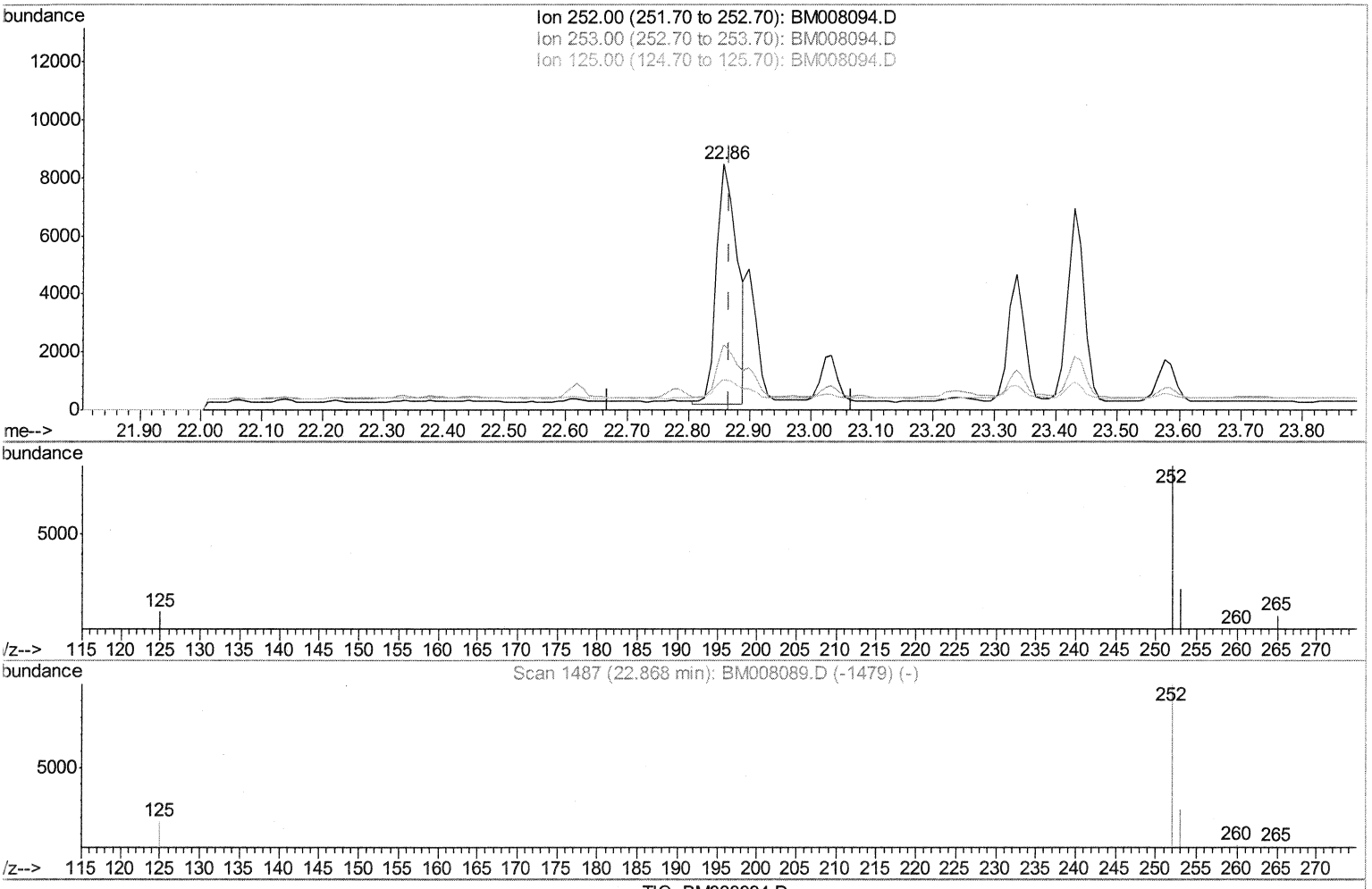
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 32.10 | 26.26 |
| 125.00 | 17.50 | 12.48 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM




TIC: BM008094.D

(21) Benzo(b)fluoranthene

22.857min (-0.011) 2.14ng/ul m SJ 11/29/16

response 19795

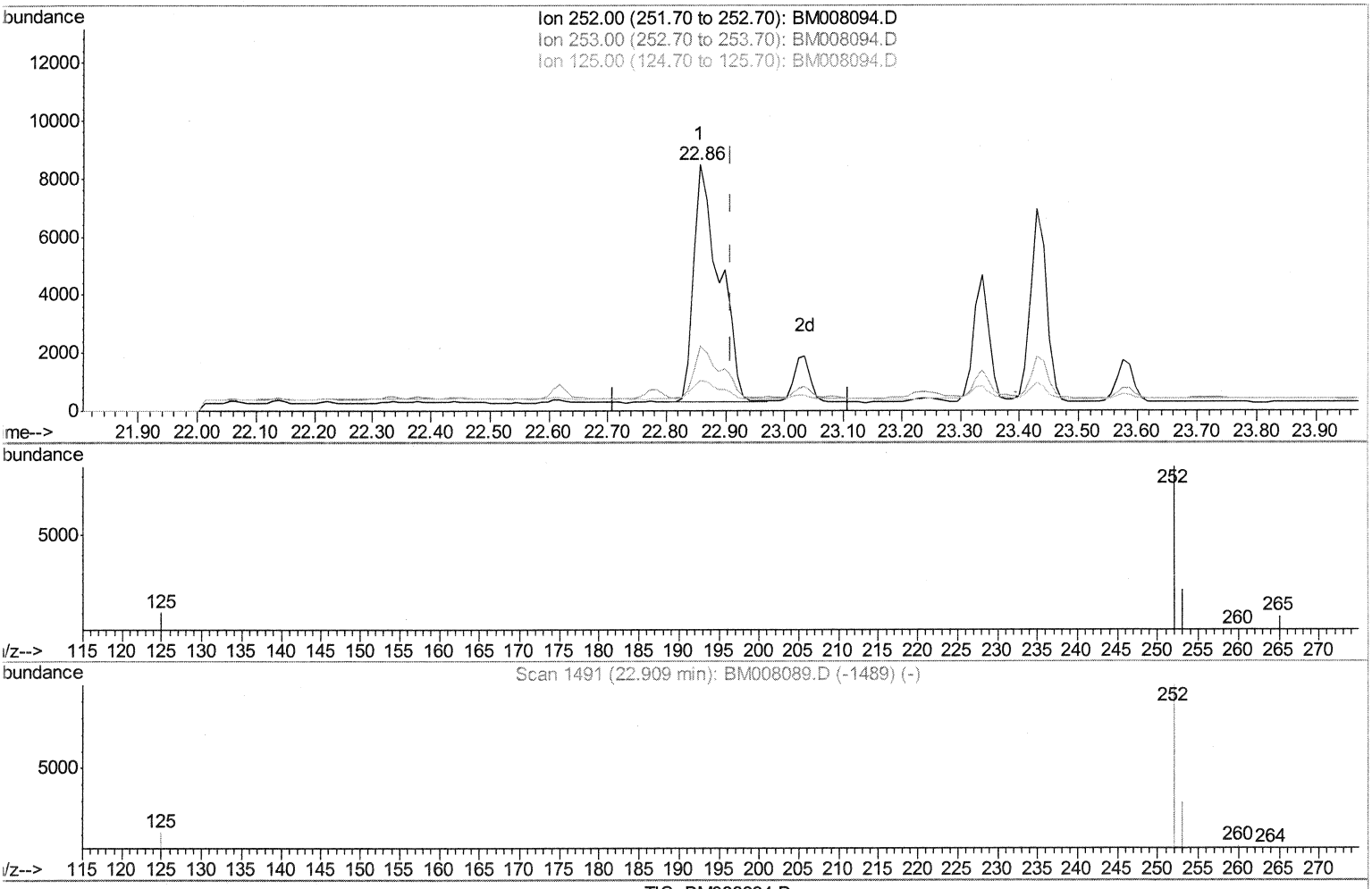
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 32.10 | 26.26 |
| 125.00 | 17.50 | 12.48 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM




TIC: BM008094.D

(22) Benzo(k)fluoranthene

22.857min (-0.052) 2.61ng/ul

response 24843

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 30.60 | 26.26 |
| 125.00 | 17.10 | 12.48# |
| 0.00 | 0.00 | 0.00 |

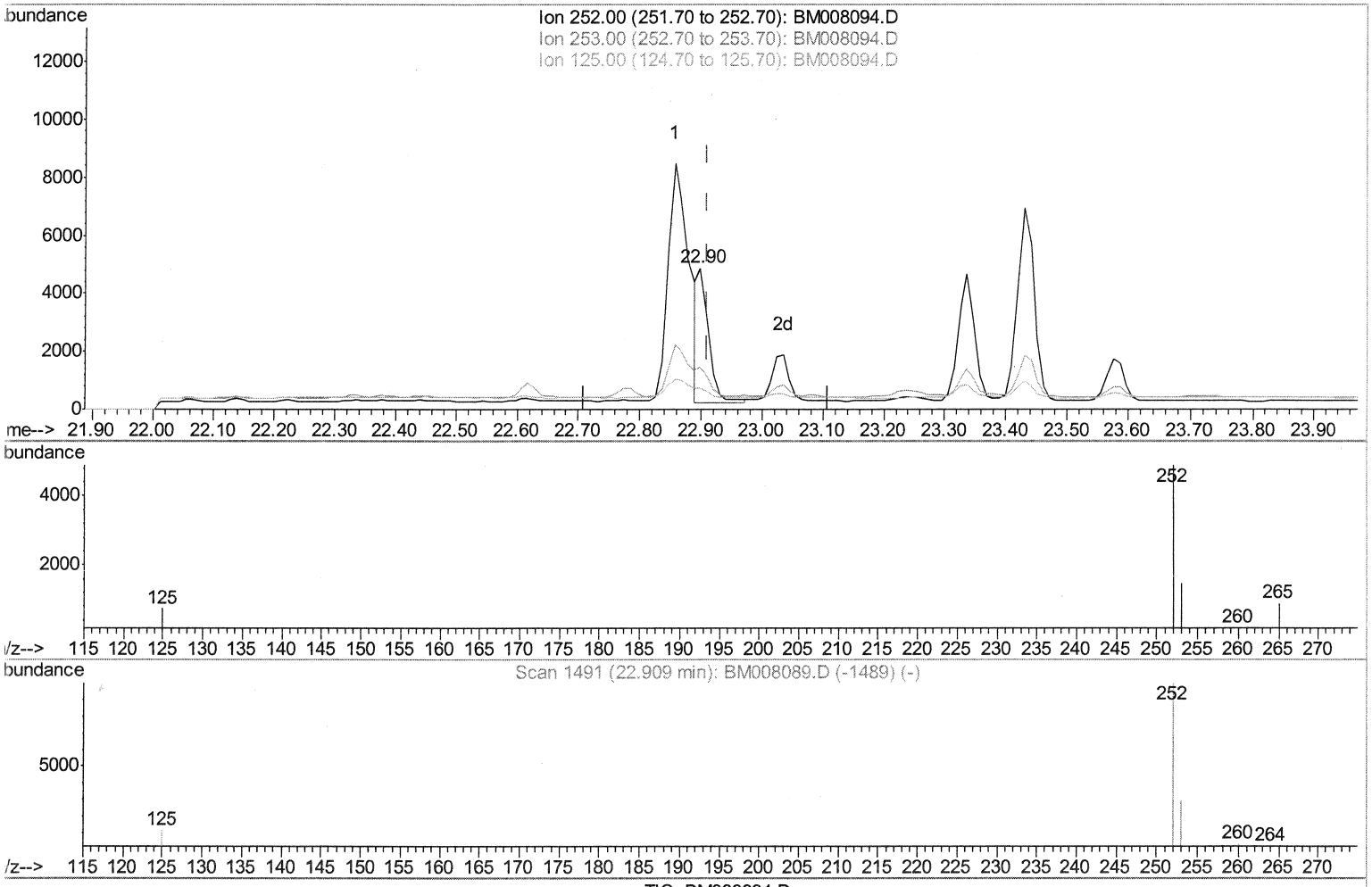
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM



TIC: BM008094.D

(22) Benzo(k)fluoranthene

22.899min (-0.011) 0.61ng/ul m SJ 11/29/16

response 5819

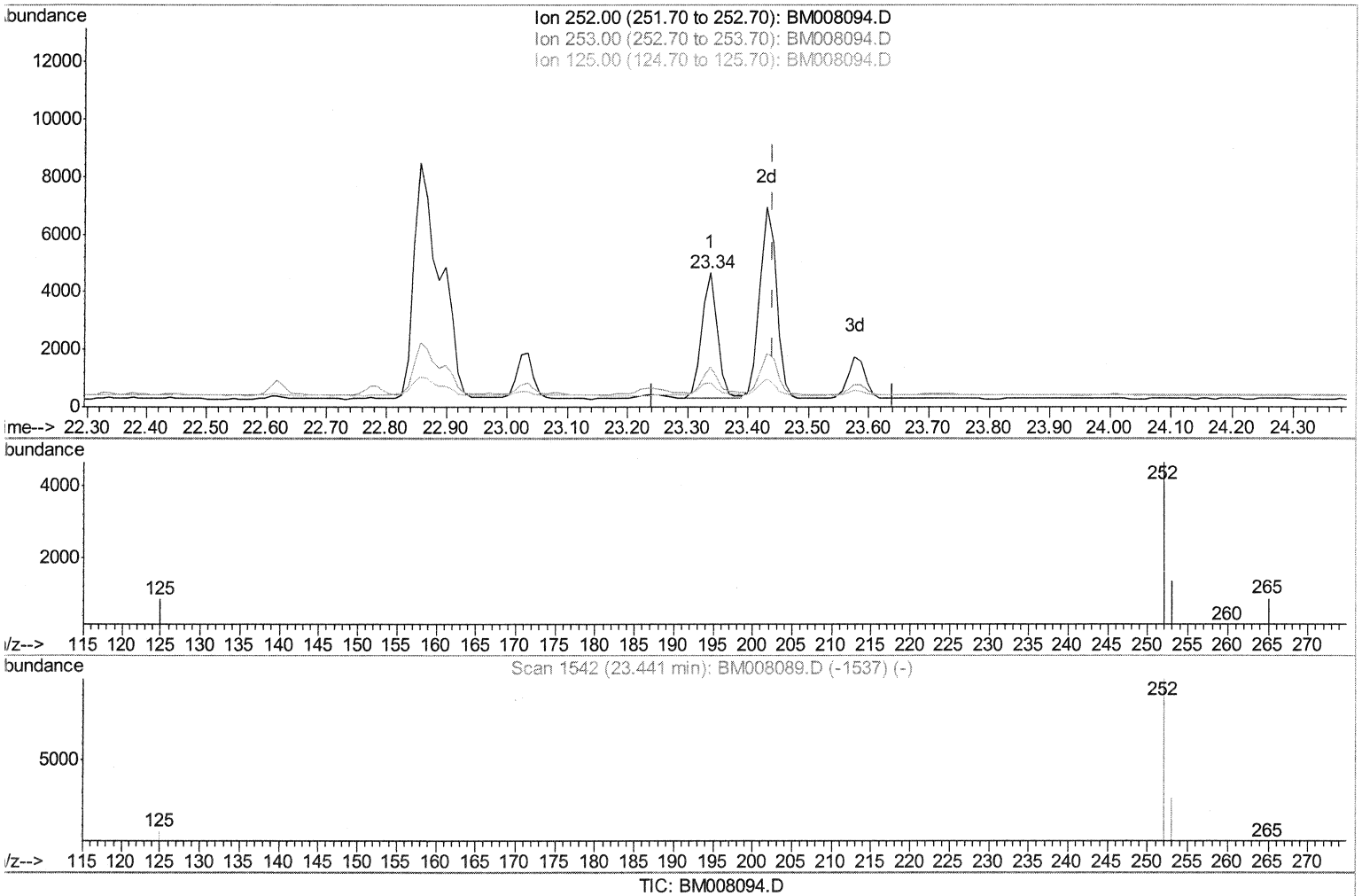
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 30.60 | 29.87 |
| 125.00 | 17.10 | 15.17 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM




TIC: BM008094.D

(23) Benzo(a)pyrene (C)

23.337min (-0.104) 0.92ng/ul

response 7963

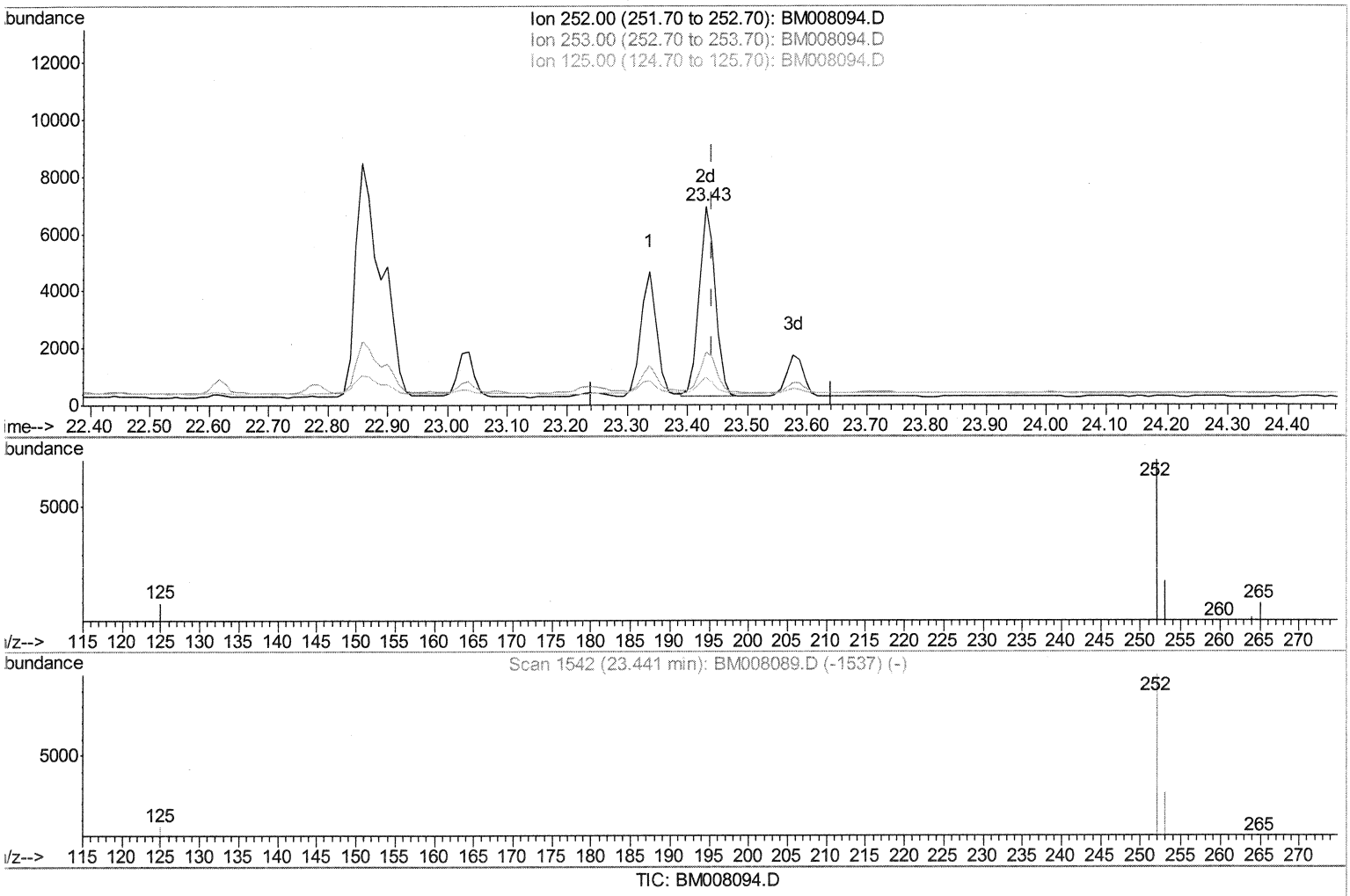
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 35.60 | 29.55 |
| 125.00 | 22.60 | 18.53 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:13:52 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM




(23) Benzo(a)pyrene (C)

23.430min (-0.011) 1.46ng/ul m SJ 11/29/16

response 12668

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 35.60 | 26.62# |
| 125.00 | 22.60 | 13.76# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM112816\
Data File : BM008094.D
Acq On : 28 Nov 2016 19:43
Operator : UM/SJ
Sample : H5694-02DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 29 00:33:01 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:11:14 2016
Response via : Initial Calibration

**Instrument :** BNA_M
**ClientSampleId :** JHSR1DL

**Manual Integrations APPROVED**
UMANGI
11/29/2016 2:22:52 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.71 | 152 | 593 | 0.40 | ng/ul | -0.02 |
| 2) Naphthalene-d8 | 10.50 | 136 | 2014 | 0.40 | ng/ul | 0.00 |
| 6) Acenaphthene-d10 | 14.35 | 164 | 1183 | 0.40 | ng/ul | 0.00 |
| 10) Phenanthrene-d10 | 17.09 | 188 | 2238 | 0.40 | ng/ul | -0.02 |
| 16) Chrysene-d12 | 21.29 | 240 | 2478 | 0.40 | ng/ul | 0.00 |
| 20) Perylene-d12 | 23.53 | 264 | 2316 | 0.40 | ng/ul | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.11 | 152 | 139 | 0.05 | ng/ul | 0.02 |
| 14) Fluoranthene-d10 | 19.13 | 212 | 293 | 0.05 | ng/ul | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 5) 2-Methylnaphthalene | 12.17 | 142 | 137 | 0.04 | ng/ul | 100 |
| 8) Acenaphthene | 14.40 | 153 | 980 | 0.24 | ng/ul | 91 |
| 9) Fluorene | 15.41 | 166 | 1530 | 0.33 | ng/ul | 98 |
| 12) Phenanthrene | 17.12 | 178 | 17286 | 2.48 | ng/ul | 97 |
| 13) Anthracene | 17.23 | 178 | 7320 | 1.12 | ng/ul | 95 |
| 15) Fluoranthene | 19.16 | 202 | 36788 | 4.09 | ng/ul | 94 |
| 17) Pyrene | 19.52 | 202 | 28376 | 3.30 | ng/ul | 97 |
| 18) Benzo(a)anthracene | 21.27 | 228 | 18515 | 2.43 | ng/ul | 99 |
| 19) Chrysene | 21.32 | 228 | 15534 | 1.64 | ng/ul | 97 |
| 21) Benzo(b)fluoranthene | 22.86 | 252 | 19795m | 2.14 | ng/ul | |
| 22) Benzo(k)fluoranthene | 22.90 | 252 | 5819m | 0.61 | ng/ul | } SJ 11/29/16 |
| 23) Benzo(a)pyrene | 23.43 | 252 | 12668m | 1.46 | ng/ul | |
| 24) Indeno(1,2,3-cd)pyrene | 25.79 | 276 | 7238 | 0.68 | ng/ul# | 92 |
| 25) Dibenzo(a,h)anthracene | 25.79 | 278 | 2406 | 0.28 | ng/ul# | 70 |
| 26) Benzo(g,h,i)perylene | 26.47 | 276 | 5654 | 0.60 | ng/ul | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed