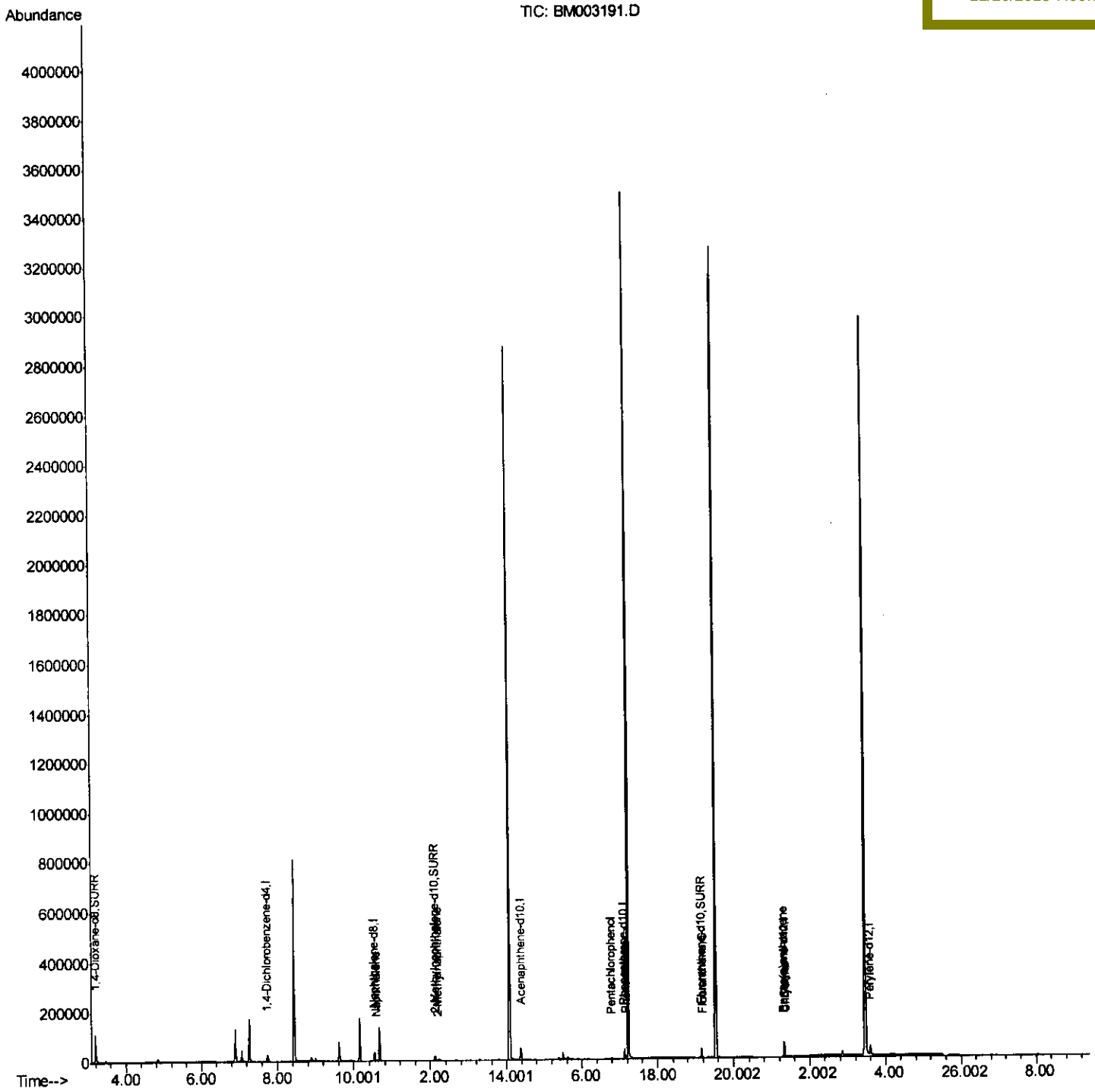
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:22:33 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM



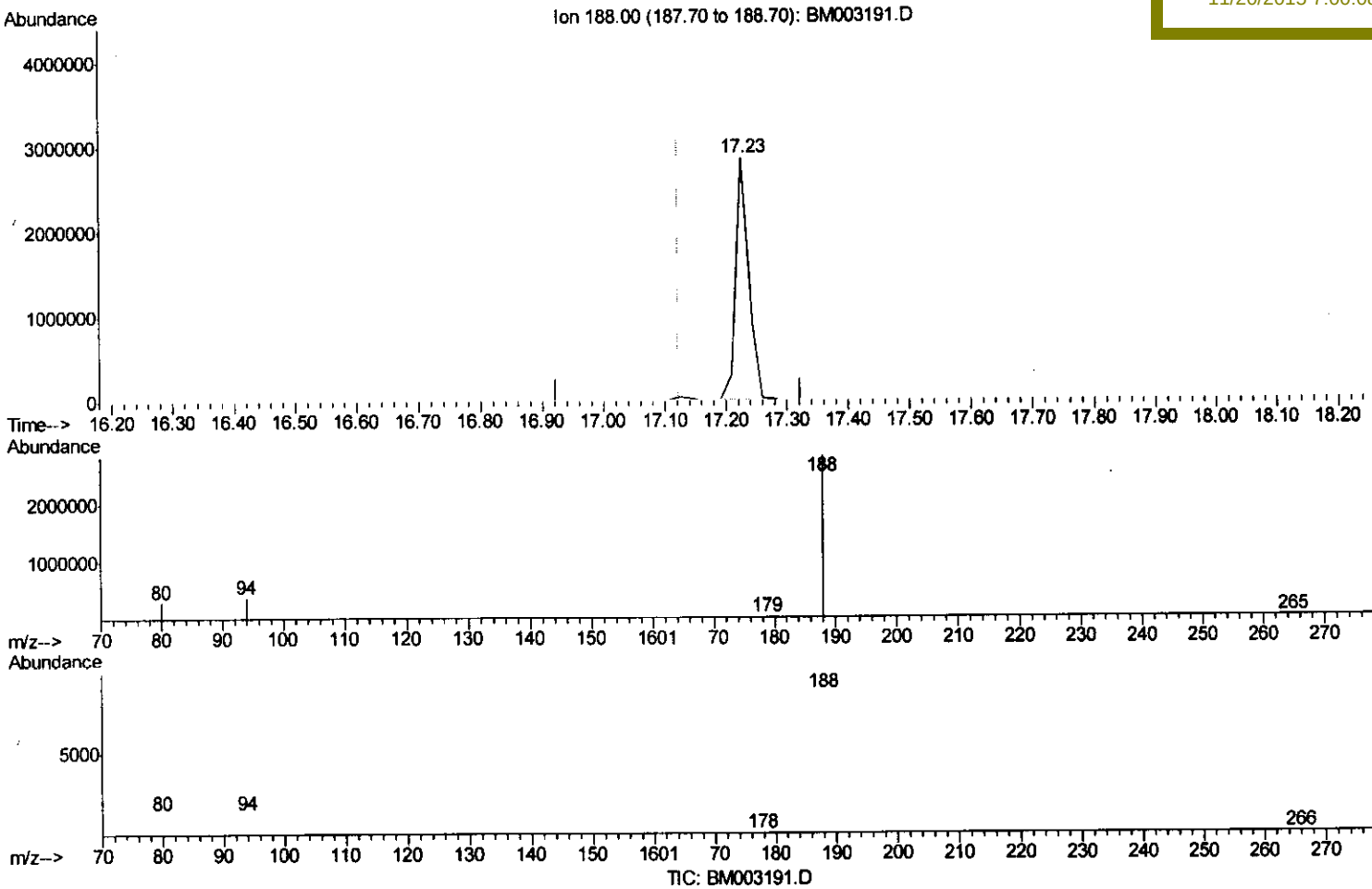
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:20:37 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




TIC: BM003191.D

(12) Phenanthrene-d10 (I)

17.226min (+0.103) 0.40ng/ul

response 4182319

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 11.70 | 12.78 |
| 80.00 | 11.90 | 10.06 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

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Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:20:37 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
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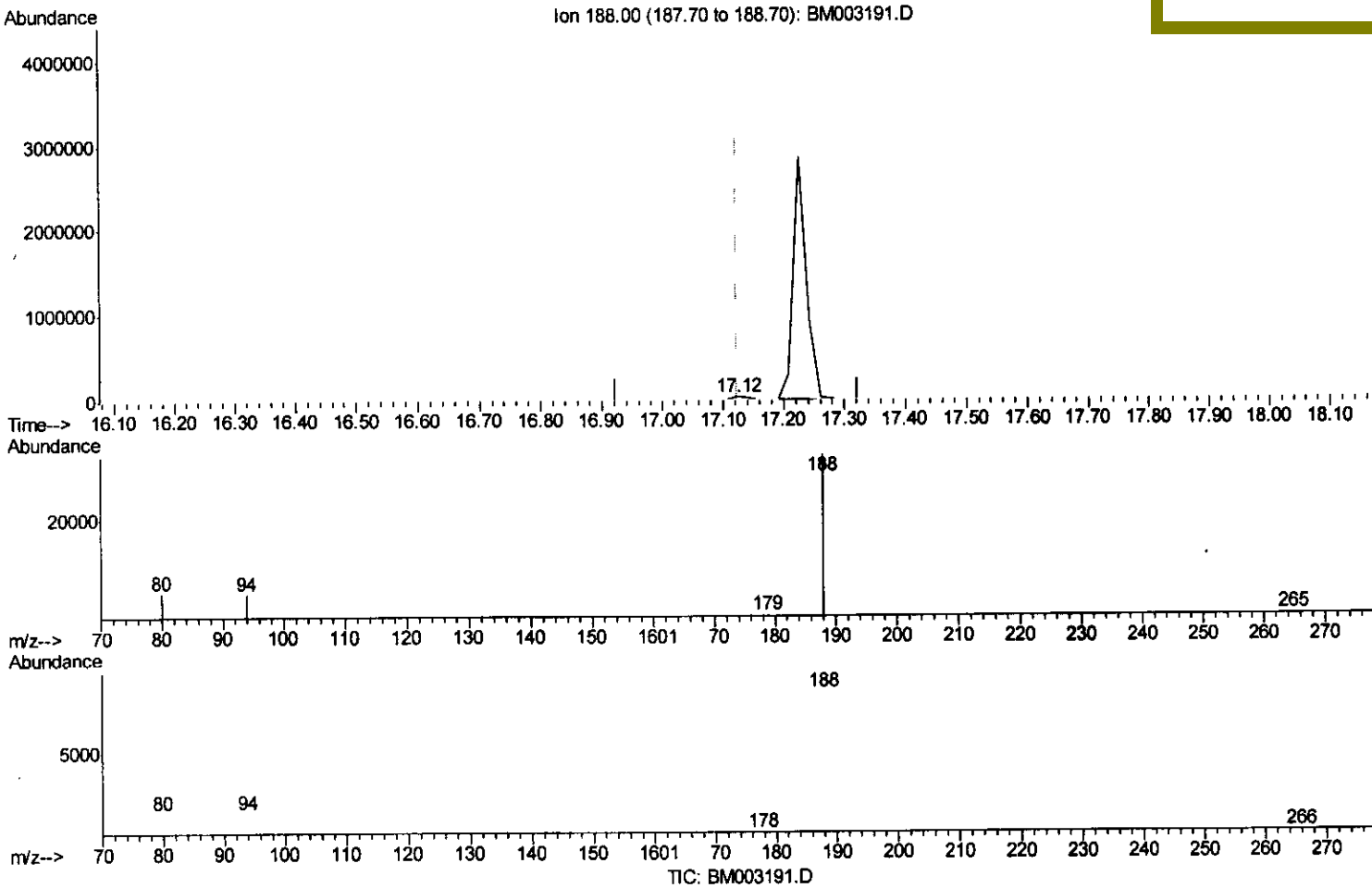
**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




(12) Phenanthrene-d10 (I)

17.123min (+0.000) 0.40ng/ul m > U.M. 11/21/15

response 59761

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 11.70 | 14.45# |
| 80.00 | 11.90 | 15.04# |
| 0.00 | 0.00 | 0.00 |

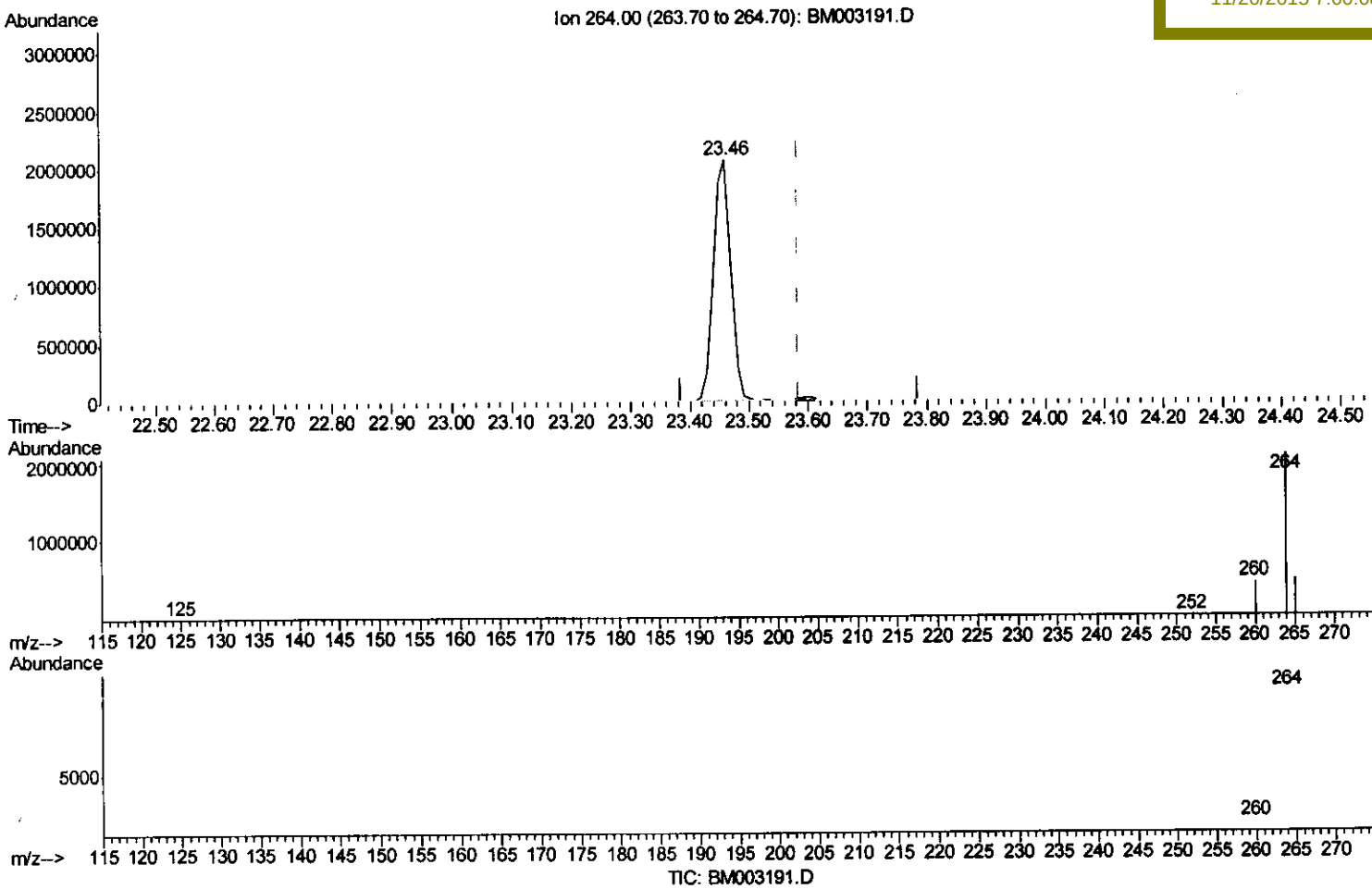
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:20:37 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




TIC: BM003191.D

(22) Perylene-d12 (I)

23.460min (-0.125) 0.40ng/ul

response 4157617

| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 25.60 | 20.88 |
| 265.00 | 38.20 | 22.61# |
| 0.00 | 0.00 | 0.00 |

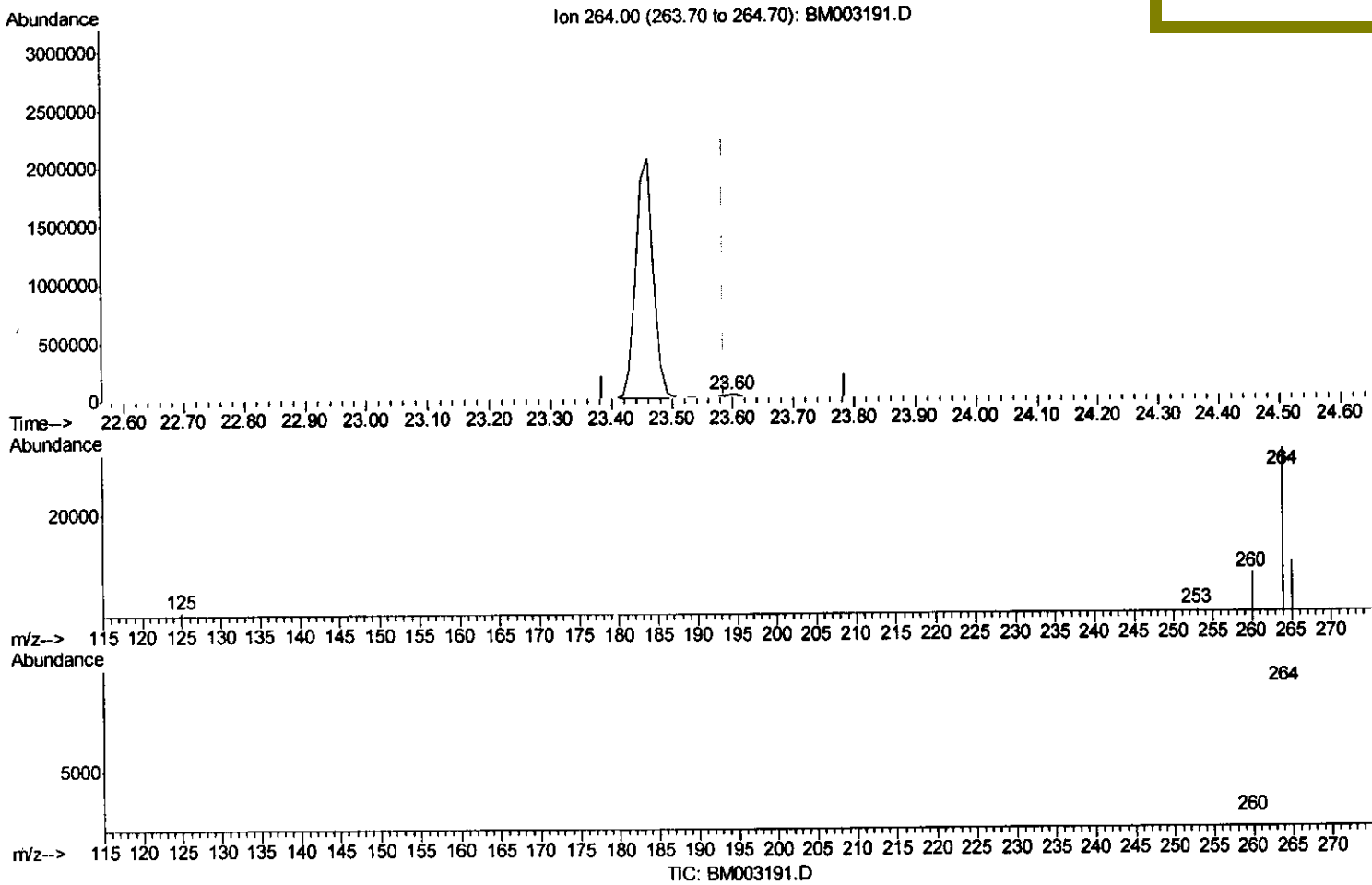
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:20:37 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




(22) Perylene-d12 (I)

23.595min (+0.010) 0.40ng/ul m > U.M. 11/21/15

response 65345

| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 25.60 | 25.75 |
| 265.00 | 38.20 | 32.55 |
| 0.00 | 0.00 | 0.00 |

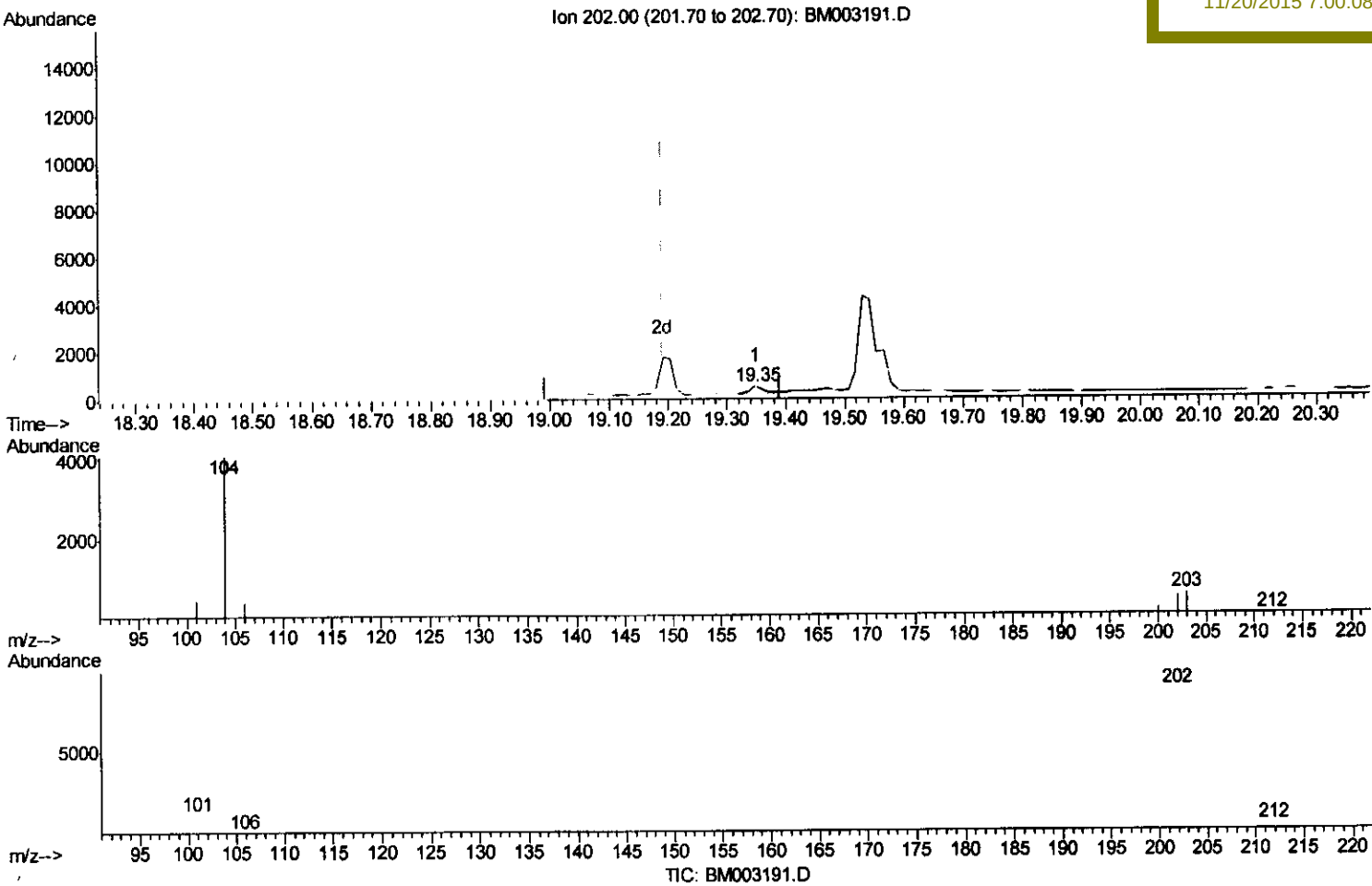
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:21:29 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




(17) Fluoranthene (C)

19.348min (+0.157) 0.00ng/ul

response 742

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 9.60 | 97.63# |
| 203.00 | 16.30 | 111.68# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA M\Data\BM111915\
Data File : BM003191.D
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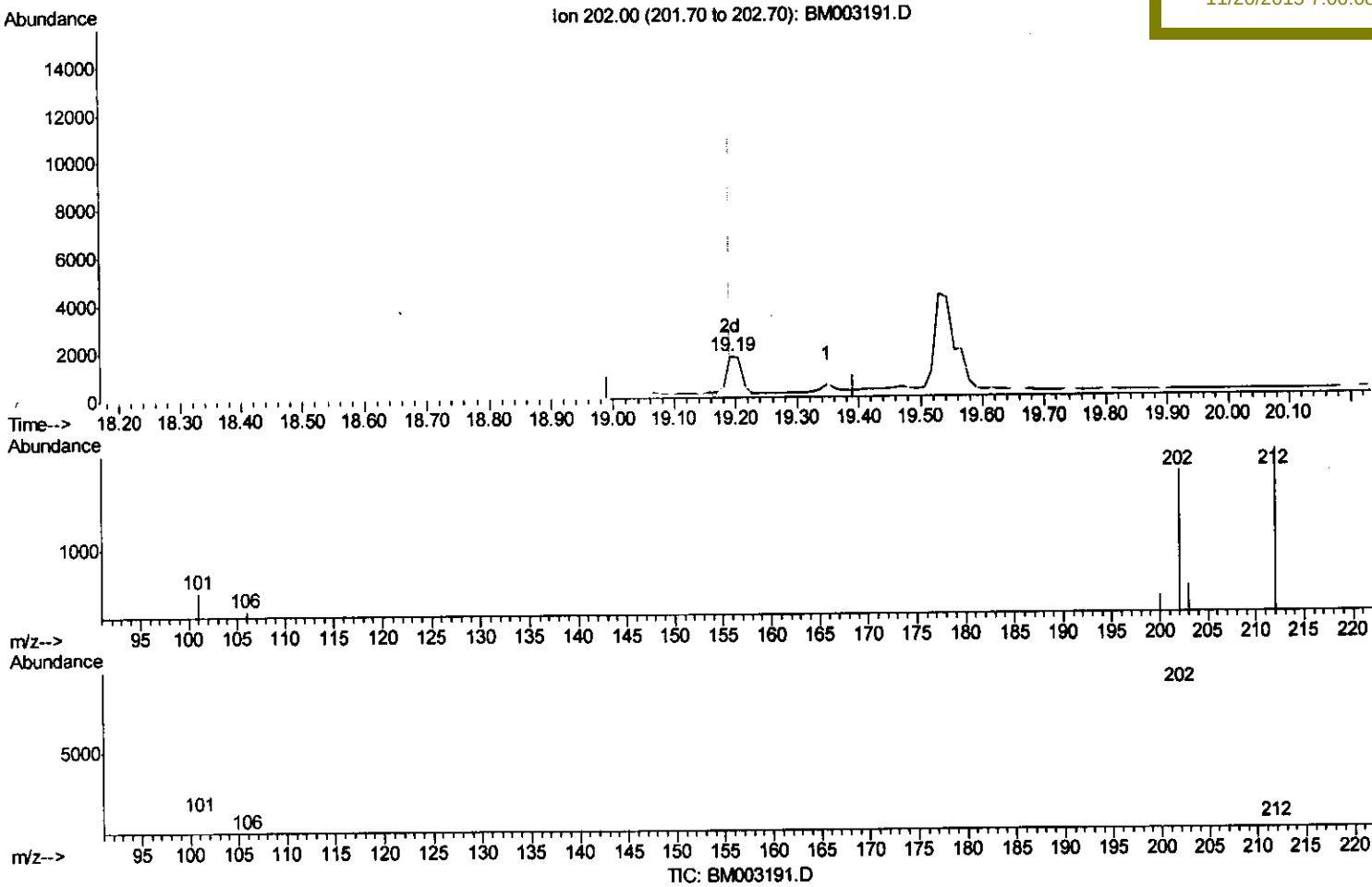
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 20 07:21:29 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
A4HT4

**Manual Integrations APPROVED**
Mmdadoda
11/20/2015 7:00:08 PM




(17) Fluoranthene (C)

19.191min (+0.000) 0.01ng/ul m > U.M. 11/21/15

response 2743

| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 9.60 | 32.80# |
| 203.00 | 16.30 | 33.77 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

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Data File : BM003191.D
Acq On : 19 Nov 2015 15:15
Operator : UM/IZ
Sample : G4323-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4HT4

Manual Integrations APPROVED
Mmdadoda
11/20/2015 7:00:08 PM

Quant Time: Nov 20 07:22:33 2015
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 20 03:16:26 2015
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.74 | 152 | 14068 | 0.40 | ng/ul | 0.00 |
| 4) Naphthalene-d8 | 10.53 | 136 | 54178 | 0.40 | ng/ul | 0.00 |
| 8) Acenaphthene-d10 | 14.38 | 164 | 29276 | 0.40 | ng/ul | 0.00 |
| 12) Phenanthrene-d10 | 17.12 | 188 | 59761m | 0.40 | ng/ul | 0.00 |
| 18) Chrysene-d12 | 21.33 | 240 | 59368 | 0.40 | ng/ul | 0.00 |
| 22) Perylene-d12 | 23.60 | 264 | 65345m | 0.40 | ng/ul | 0.01 |
| **System Monitoring Compounds** | | | | | | |
| 2) 1,4-Dioxane-d8 | 3.20 | 96 | 84118 | 5.60 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 12.12 | 152 | 23141 | 0.31 | ng/ul | 0.00 |
| 16) Fluoranthene-d10 | 19.17 | 212 | 47103 | 0.32 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 5) Naphthalene | 10.58 | 128 | 4122 | 0.03 | ng/ul# | 88 |
| 7) 2-Methylnaphthalene | 12.19 | 142 | 592 | 0.01 | ng/ul# | 100 |
| 13) Pentachlorophenol | 16.78 | 266 | 2853 | 0.20 | ng/ul# | 16 |
| 14) Phenanthrene | 17.17 | 178 | 10207 | 0.06 | ng/ul | 93 |
| 17) Fluoranthene | 19.19 | 202 | 2743m | 0.01 | ng/ul | |
| 20) Benzo(a)anthracene | 21.31 | 228 | 1448 | 0.01 | ng/ul# | 34 |
| 21) Chrysene | 21.36 | 228 | 1489 | 0.01 | ng/ul# | 55 |

U.M. 11/21/15

U.M. 11/21/15

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