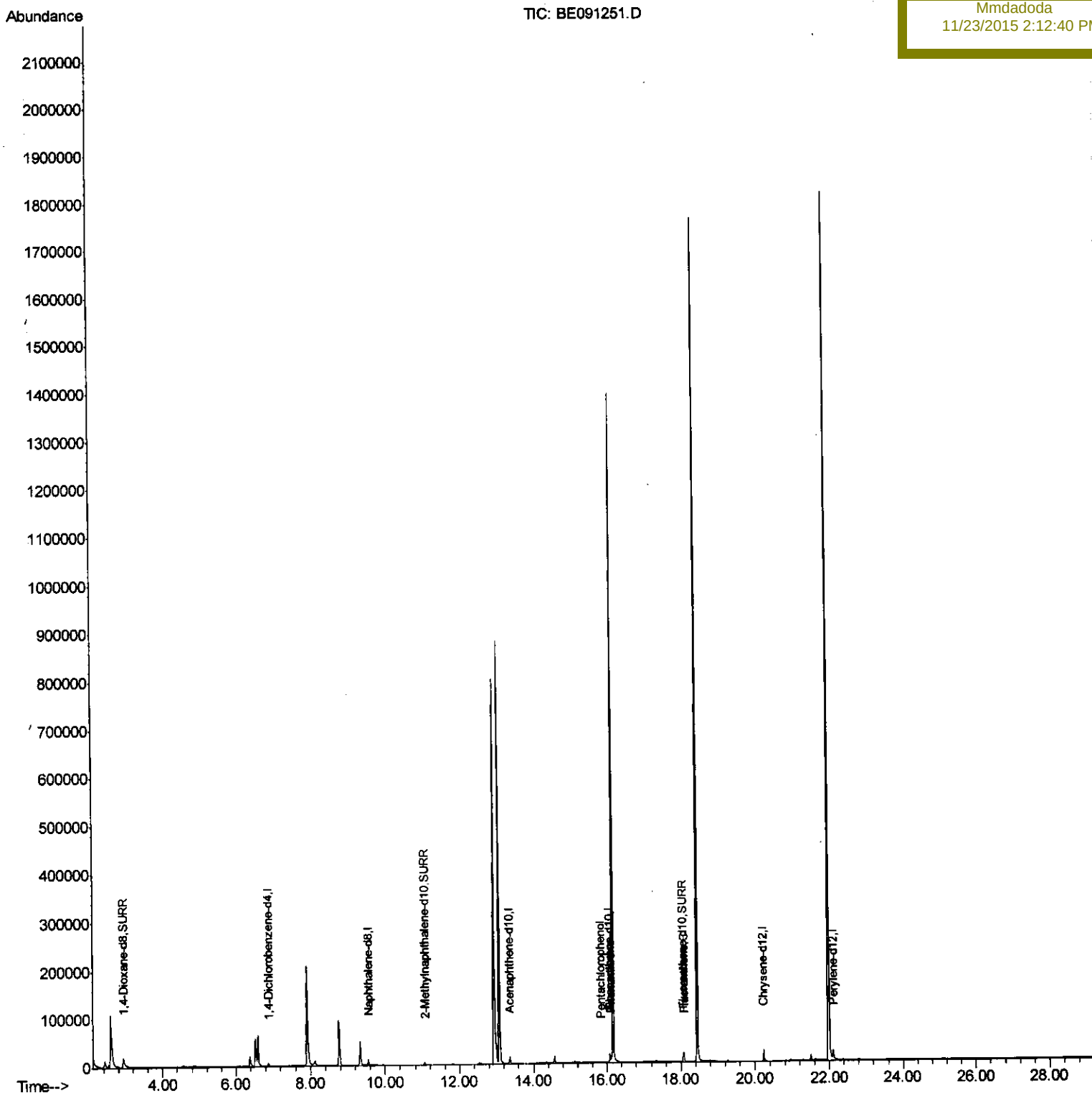
Data Path : Z:\HPCHEM1\BNA E\Data\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 09:34:33 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM

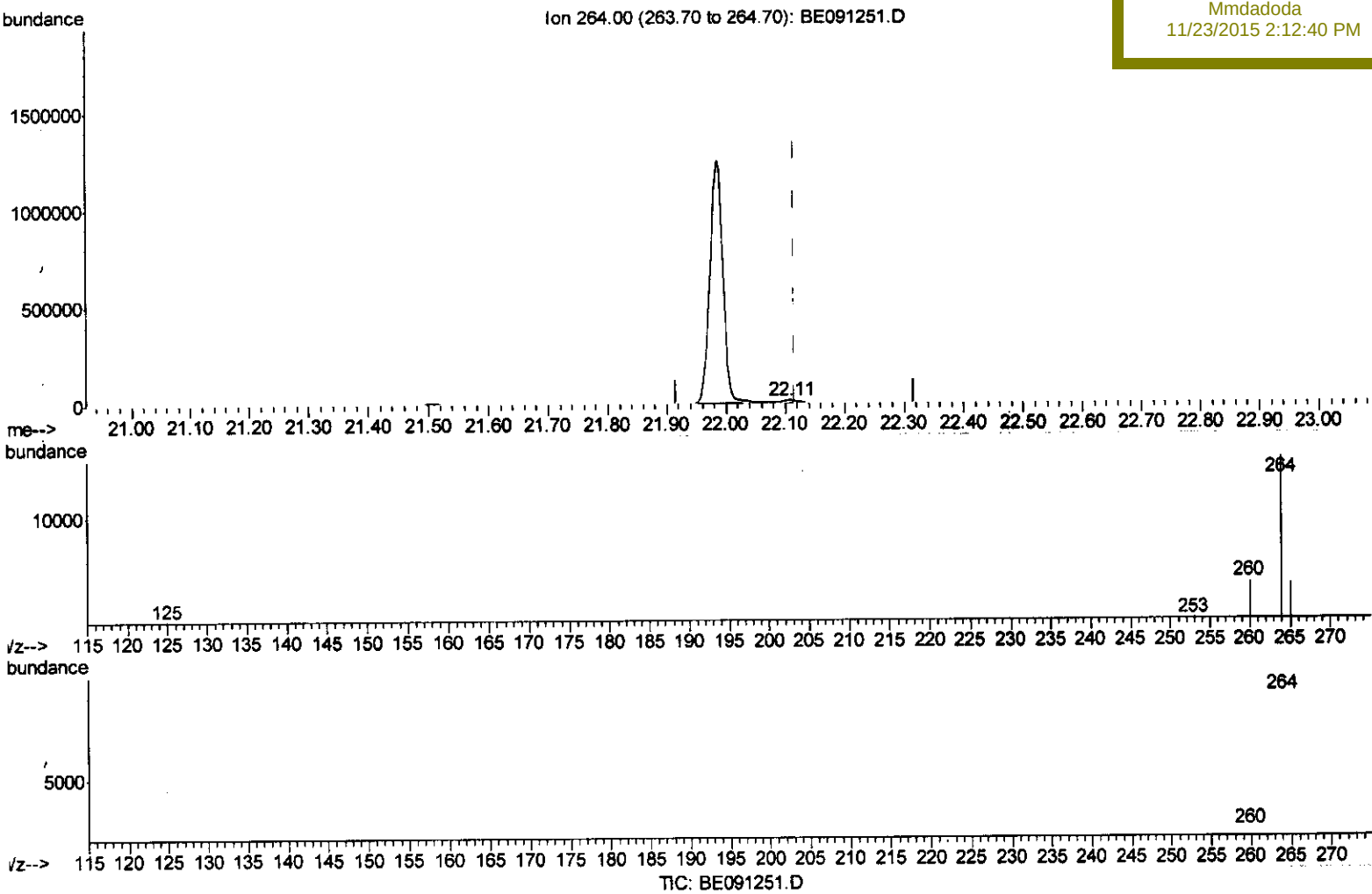


Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 03:18:45 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(22) Perylene-d12 (I)

22.107min (-0.009) 0.40ng/ul m > U.M 25/11/15

response 19673

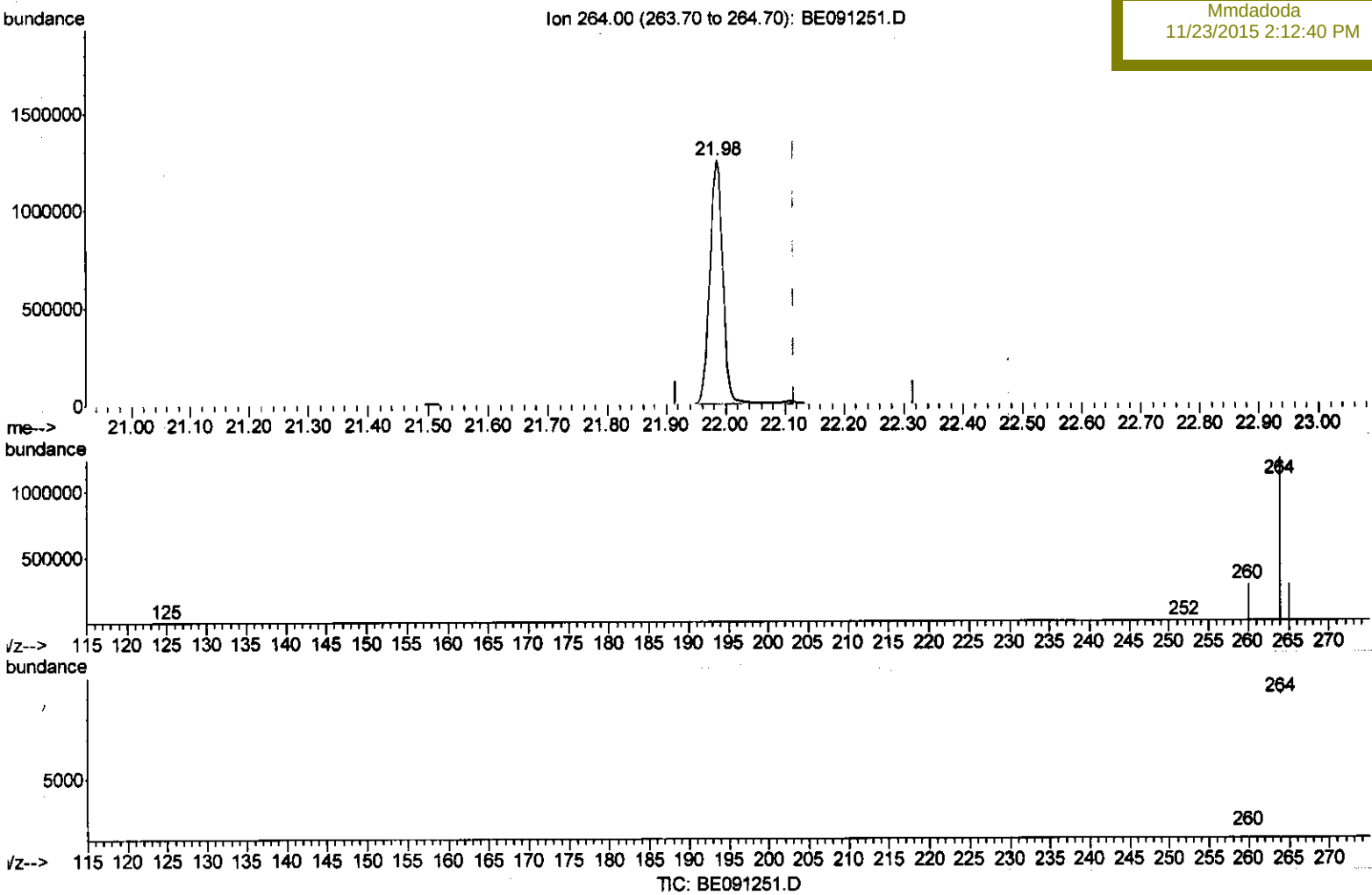
| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 28.90 | 24.08 |
| 265.00 | 34.70 | 23.01# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 03:18:45 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(22) Perylene-d12 (I)

21.984min (-0.132) 0.40ng/ul

response 1903291

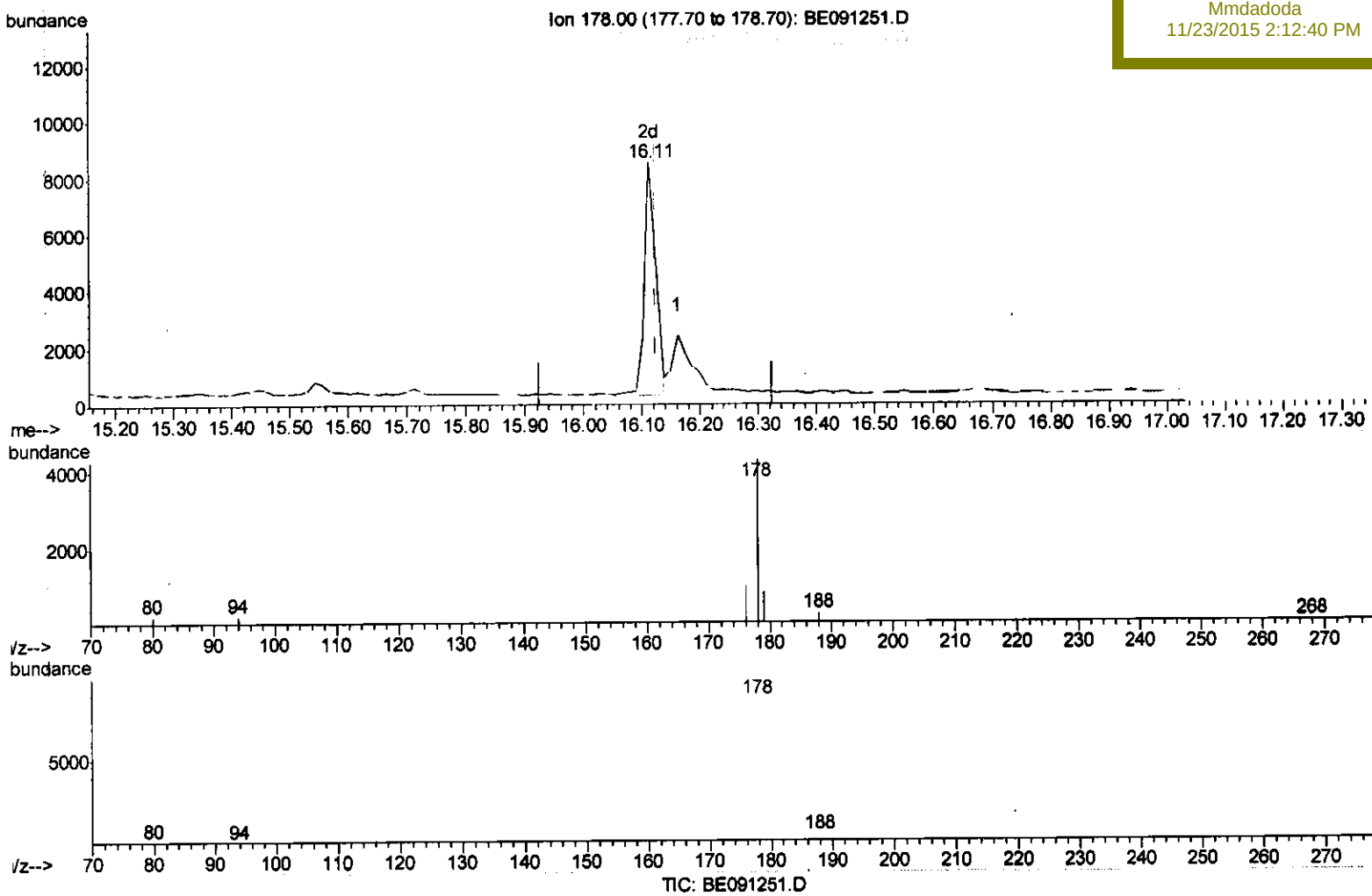
| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 28.90 | 22.30# |
| 265.00 | 34.70 | 22.31# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 03:18:45 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8OM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(14) Phenanthrene

16.113min (-0.011) 0.05ng/ul m

response 11020

JUM 25/11/15

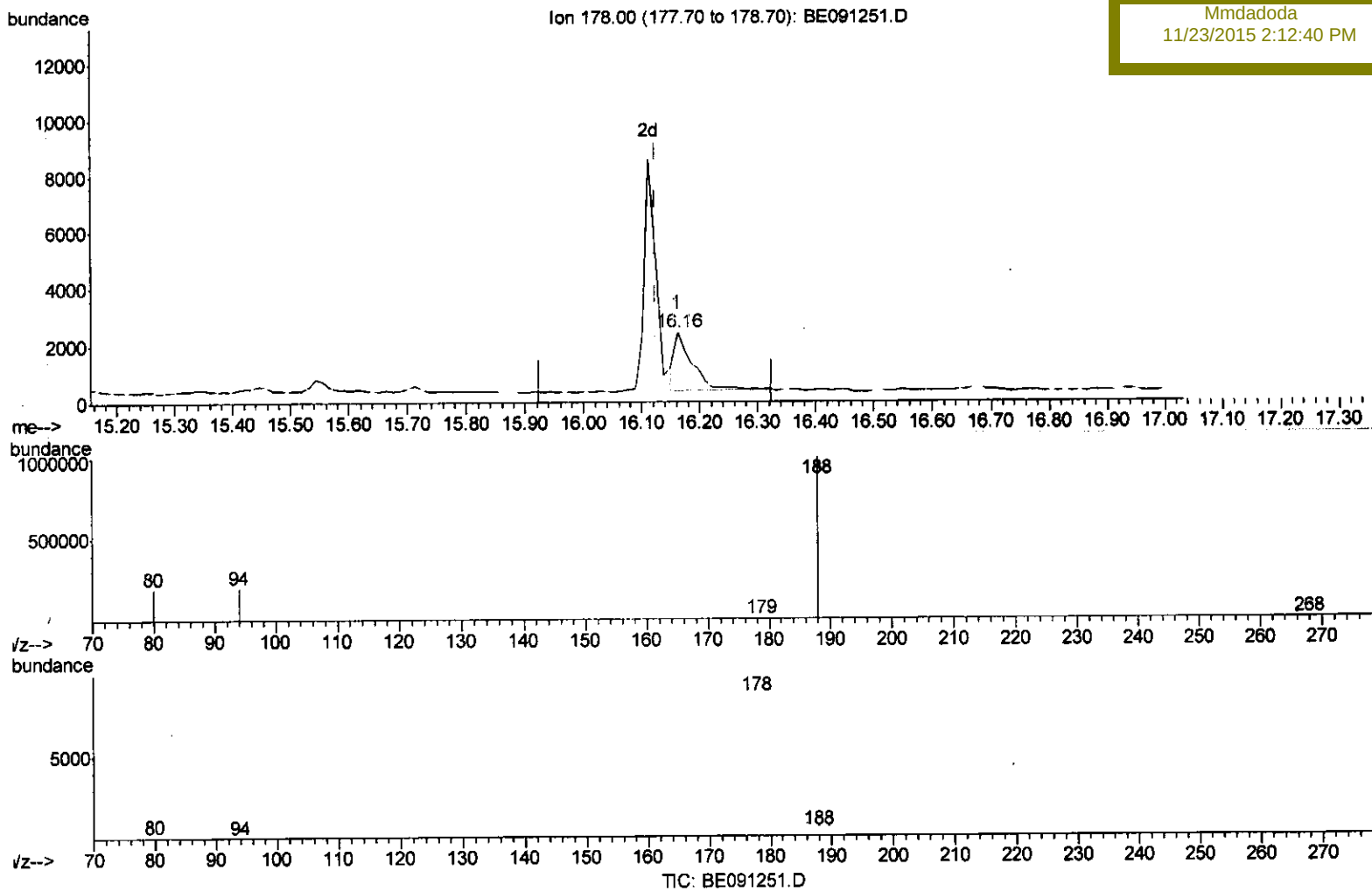
| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 20.30 | 22.95 |
| 179.00 | 16.00 | 19.80# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 03:18:45 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(14) Phenanthrene

16.162min (+0.037) 0.02ng/ul

response 4554

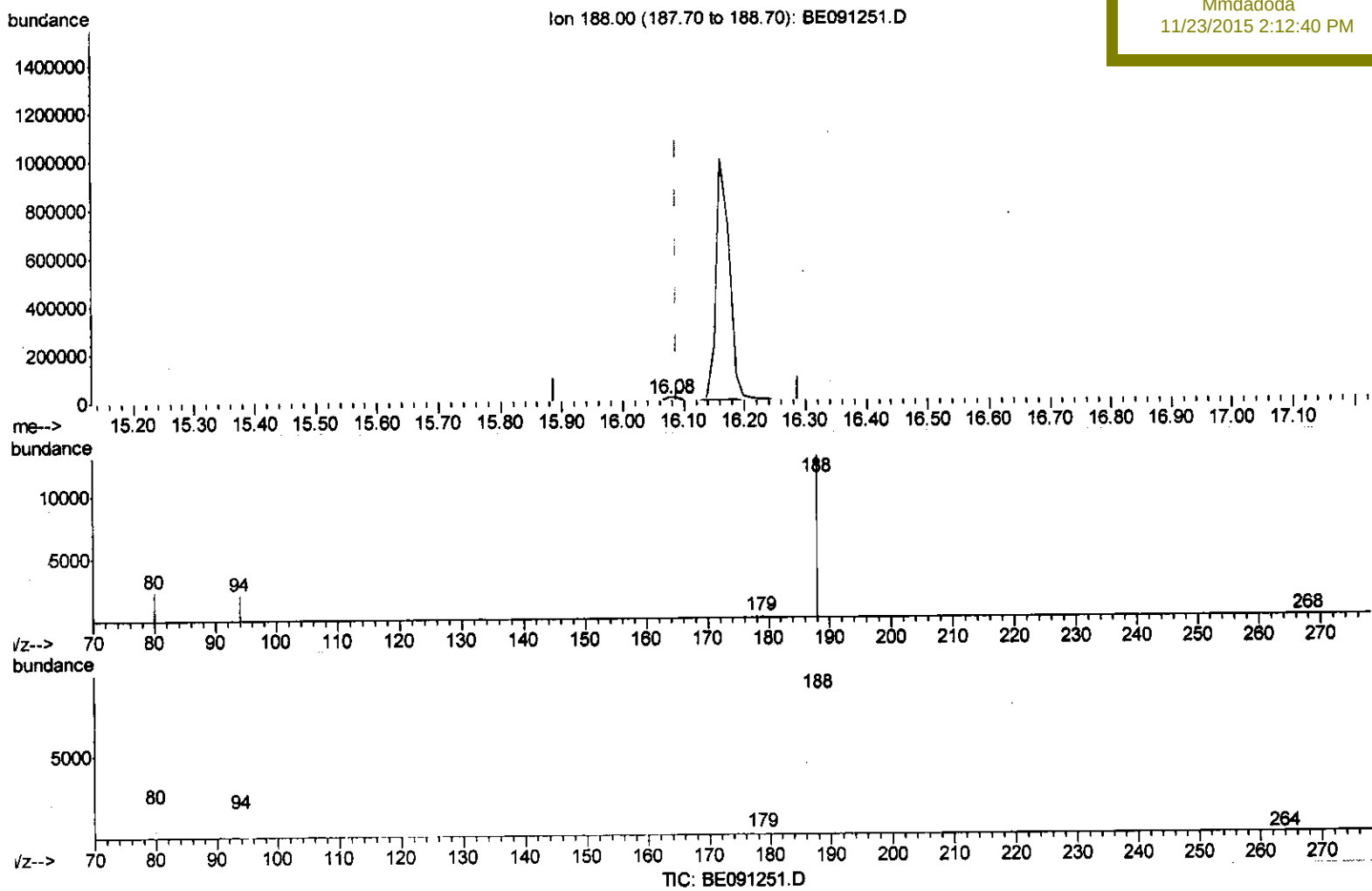
| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 20.30 | 21.74 |
| 179.00 | 16.00 | 205.79# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 02:54:05 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(12) Phenanthrene-d10 (I)

16.077min (-0.011) 0.40ng/ul m

response 19136

U.M 25/11/15

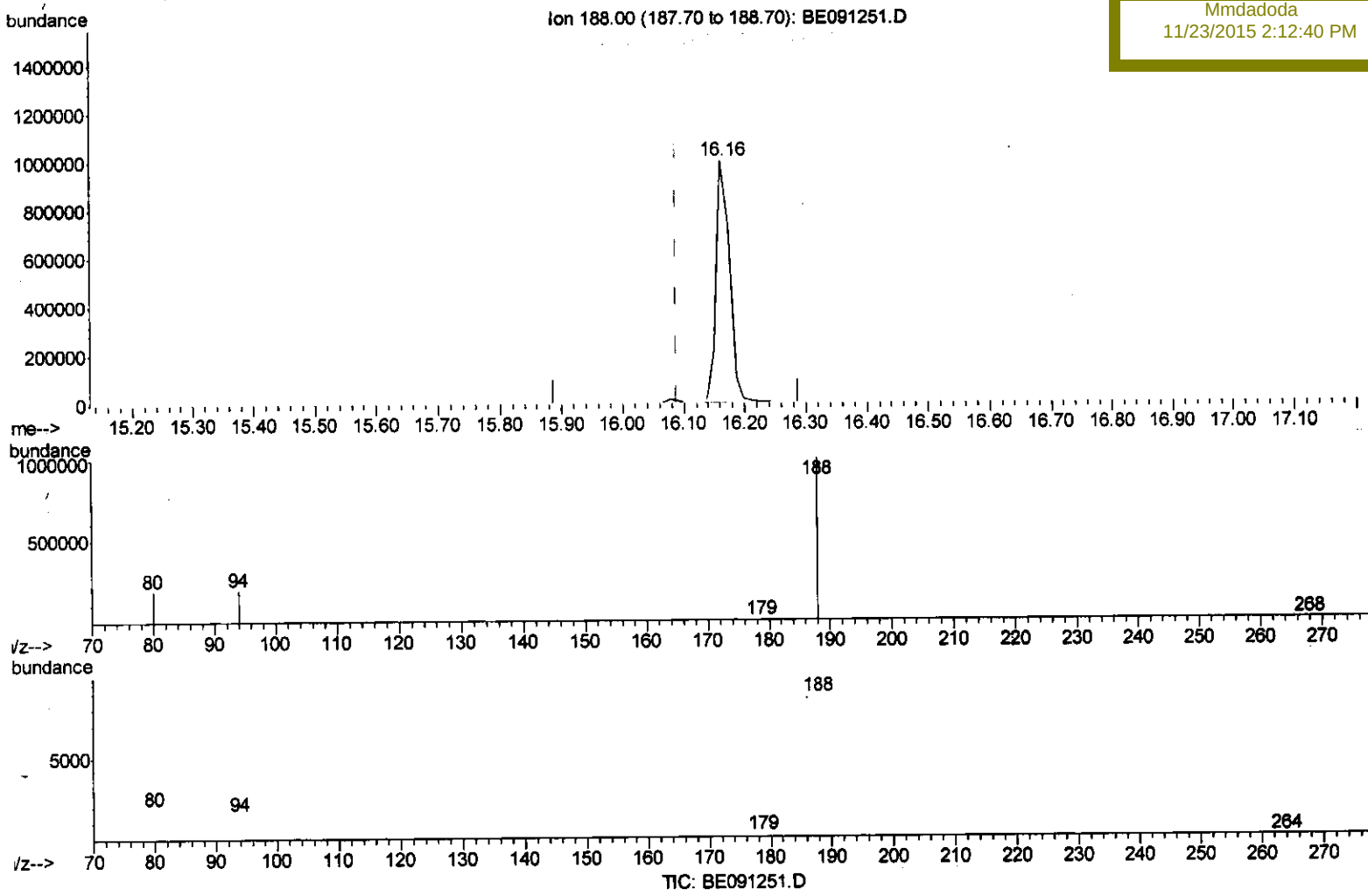
| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.00 | 16.40# |
| 80.00 | 8.90 | 18.37# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\DATA\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 21 02:54:05 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :**
BNA_E
**ClientSampleId :**
D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM




(12) Phenanthrene-d10 (I)

16.162min (+0.073) 0.40ng/ul

response 1520757

| Ion | Exp% | Act% |
|---|---|---|
| 188.00 | 100 | 100 |
| 94.00 | 9.00 | 19.71# |
| 80.00 | 8.90 | 18.87# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA E\Data\BE112015\
Data File : BE091251.D
Acq On : 20 Nov 2015 18:30
Operator : UM/NP
Sample : G4310-08
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 09:34:33 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 21 02:52:22 2015
Response via : Initial Calibration

**Instrument :** BNA_E
**ClientSampleId :** D9KM3

**Manual Integrations APPROVED**
Mmdadoda
11/23/2015 2:12:40 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 6.87 | 152 | 2907 | 0.40 | ng/ul | -0.03 |
| 4) Naphthalene-d8 | 9.55 | 136 | 14488 | 0.40 | ng/ul | -0.02 |
| 8) Acenaphthene-d10 | 13.36 | 164 | 7976 | 0.40 | ng/ul | -0.01 |
| 12) Phenanthrene-d10 | 16.08 | 188 | 19136m | 0.40 | ng/ul | -0.01 |
| 18) Chrysene-d12 | 20.23 | 240 | 23603 | 0.40 | ng/ul | 0.00 |
| 22) Perylene-d12 | 22.11 | 264 | 19673m | 0.40 | ng/ul | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 2) 1,4-Dioxane-d8 | 2.93 | 96 | 25113 | 12.01 | ng/uL | -0.04 |
| 6) 2-Methylnaphthalene-d10 | 11.06 | 152 | 6946 | 0.35 | ng/ul | 0.00 |
| 16) Fluoranthene-d10 | 18.07 | 212 | 21684 | 0.40 | ng/ul | 0.00 |
| **Target Compounds** | | | | | | Qvalue |
| 13) Pentachlorophenol | 15.85 | 266 | 340 | 0.19 | ng/ul | 91 |
| 14) Phenanthrene | 16.11 | 178 | 11020m | 0.05 | ng/ul | |
| 17) Fluoranthene | 18.10 | 202 | 11177 | 0.04 | ng/ul | 83 |

U.M 25/11/15

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