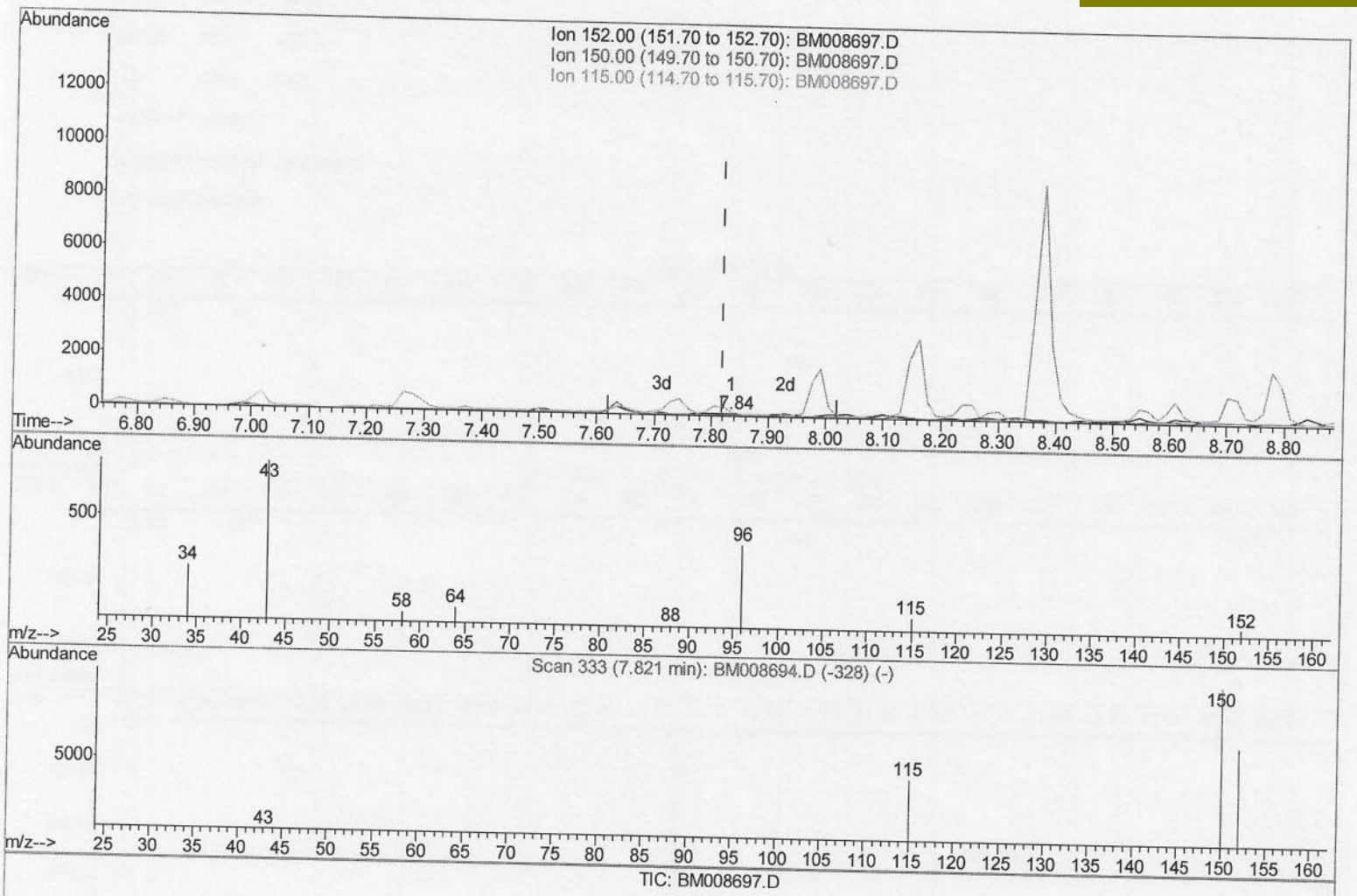
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




(1) 1,4-Dichlorobenzene-d4 (I)

7.836min (+0.015) 0.40ng/ul

response 106

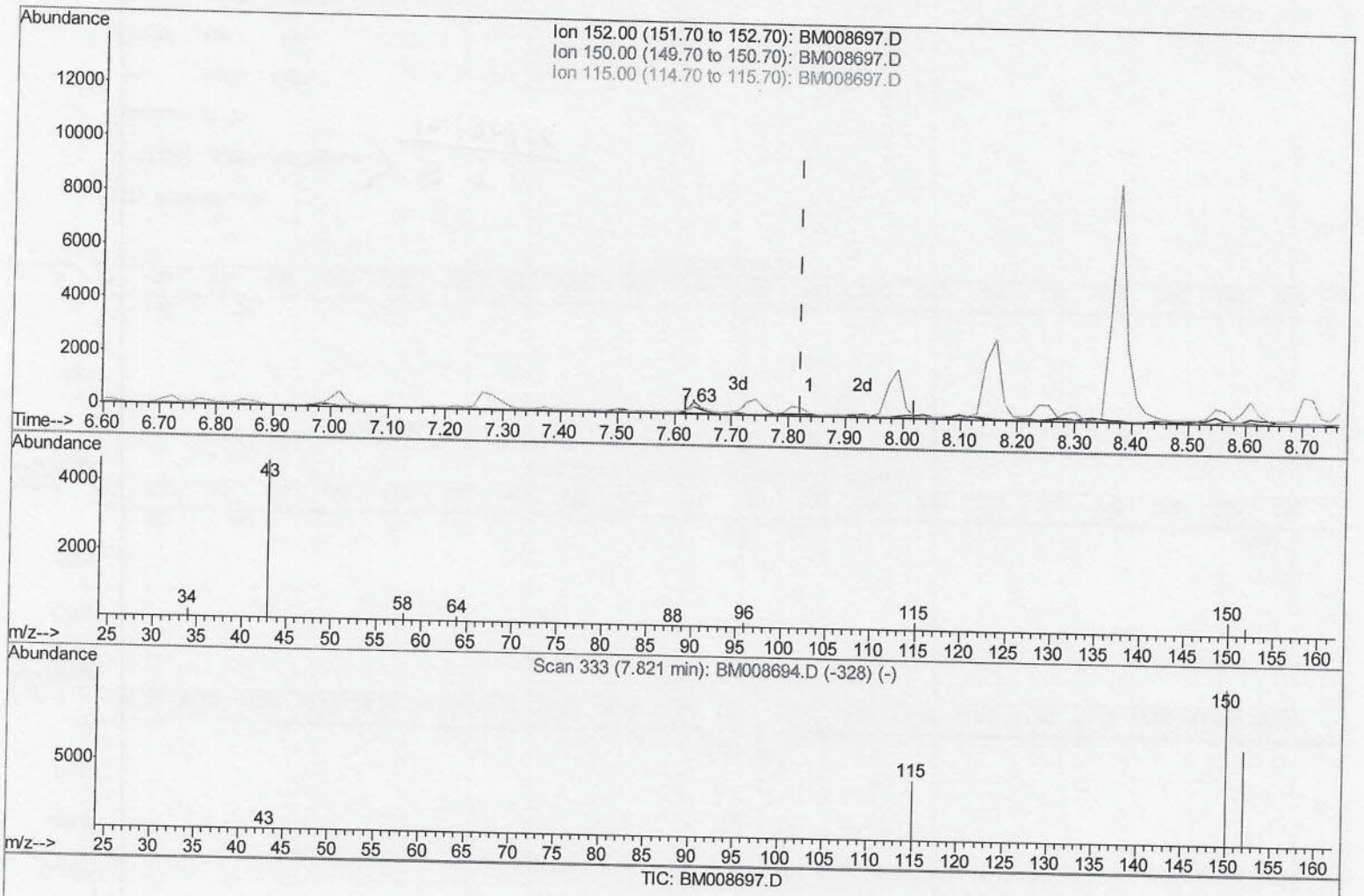
| Ion | Exp% | Act% |
|---|---|---|
| 152.00 | 100 | 100 |
| 150.00 | 143.40 | 63.10# |
| 115.00 | 64.90 | 132.14# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM



TIC: BM008697.D

(1) 1,4-Dichlorobenzene-d4 (I)

7.635min (-0.186) 0.40ng/ul m

response 509

S.J 12/30/16

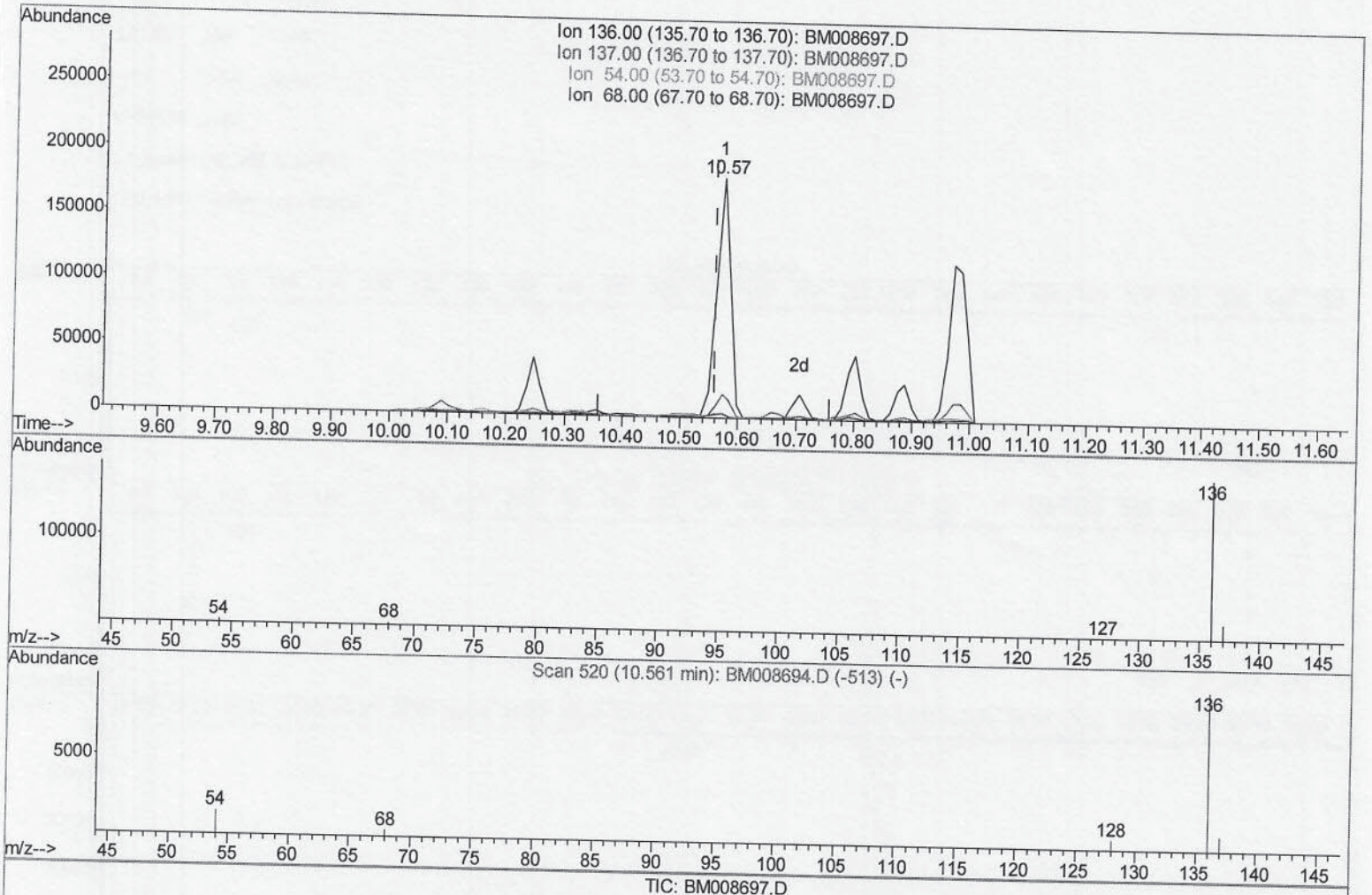
| Ion | Exp% | Act% |
|---|---|---|
| 152.00 | 100 | 100 |
| 150.00 | 143.40 | 145.58 |
| 115.00 | 64.90 | 93.88# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(2) Naphthalene-d8 (I)

10.573min (+0.012) 0.40ng/ul

response 296323

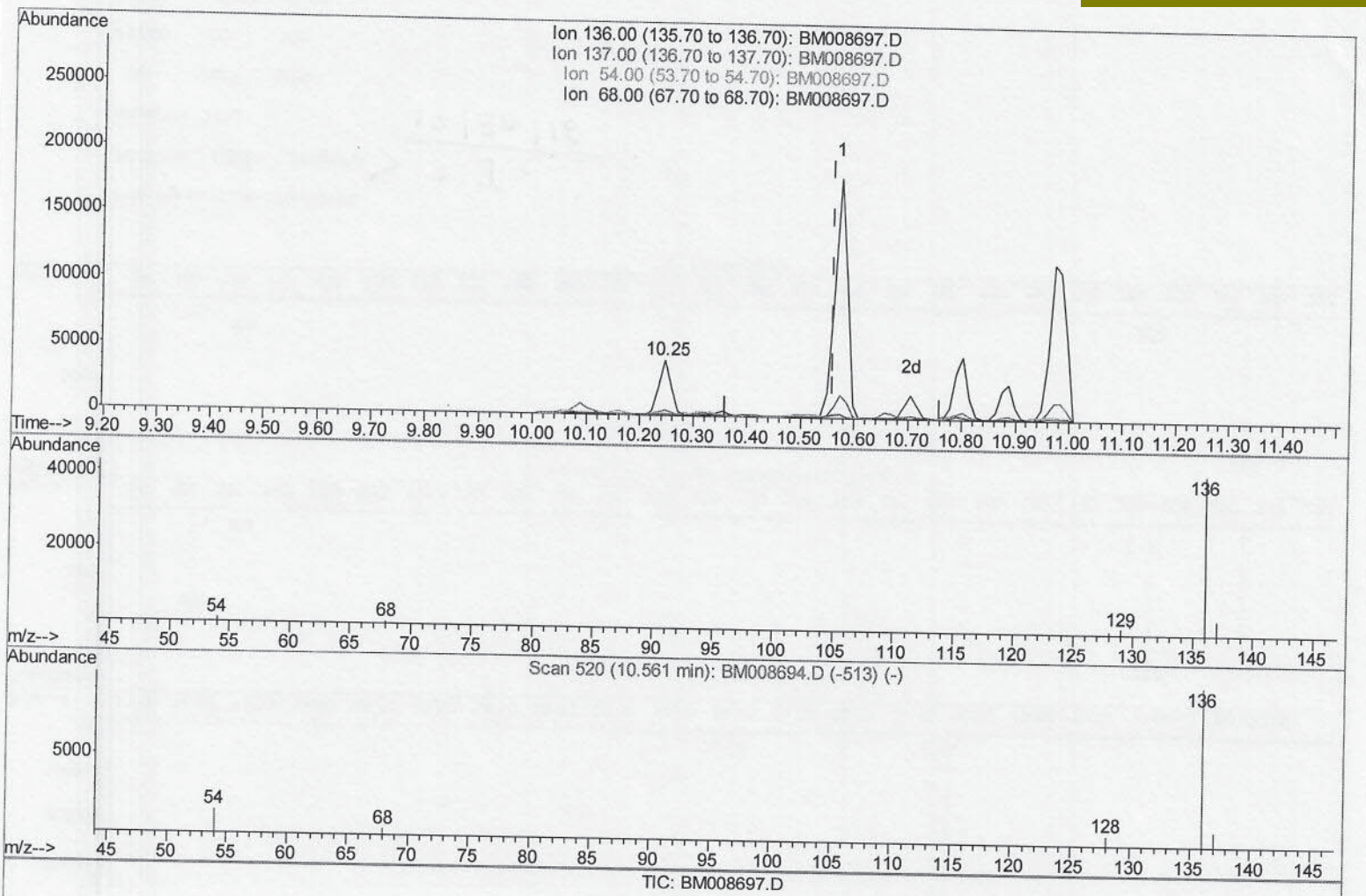
| Ion | Exp% | Act% |
|---|---|---|
| 136.00 | 100 | 100 |
| 137.00 | 13.90 | 9.72# |
| 54.00 | 15.50 | 1.88# |
| 68.00 | 9.90 | 1.63# |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(2) Naphthalene-d8 (I)

10.246min (-0.315) 0.40ng/ul m > S.J 12/30/16

response 66732

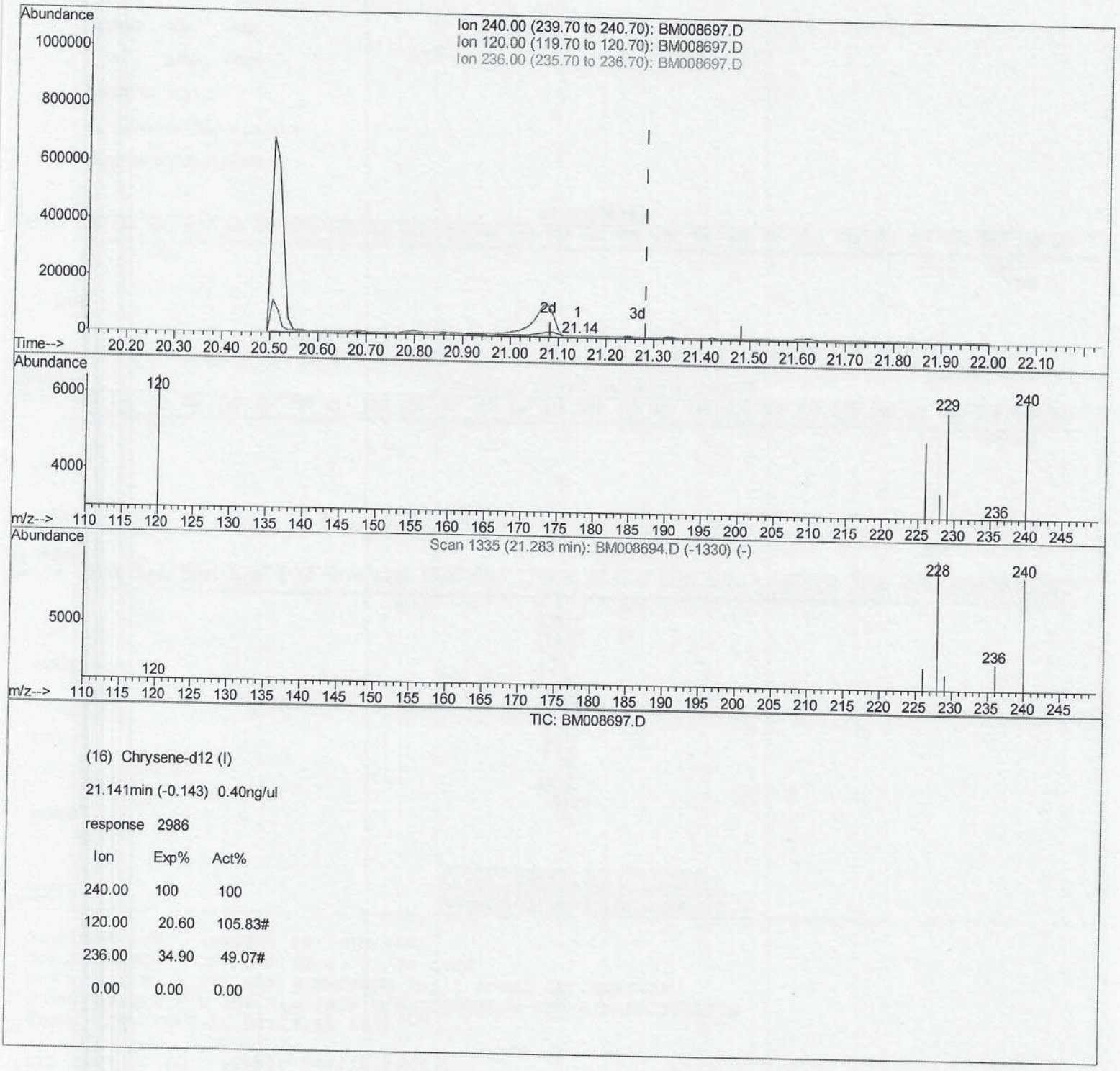
| Ion | Exp% | Act% |
|---|---|---|
| 136.00 | 100 | 100 |
| 137.00 | 13.90 | 10.68# |
| 54.00 | 15.50 | 3.66# |
| 68.00 | 9.90 | 2.55# |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




(16) Chrysene-d12 (I)

21.141min (-0.143) 0.40ng/ul

response 2986

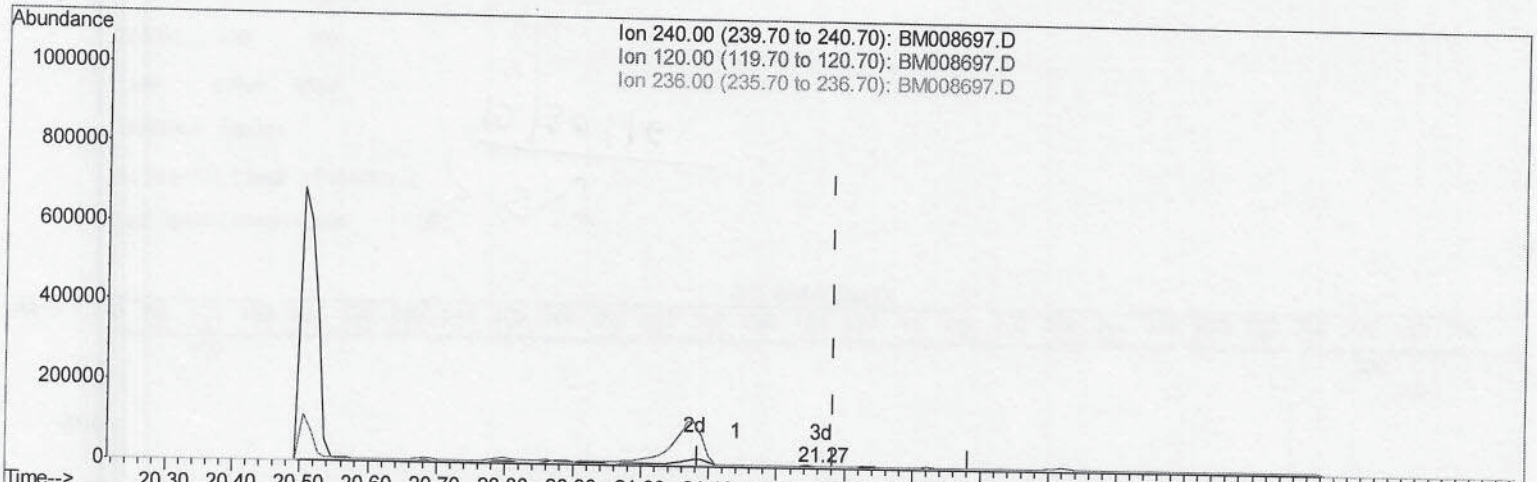
| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 20.60 | 105.83# |
| 236.00 | 34.90 | 49.07# |
| 0.00 | 0.00 | 0.00 |

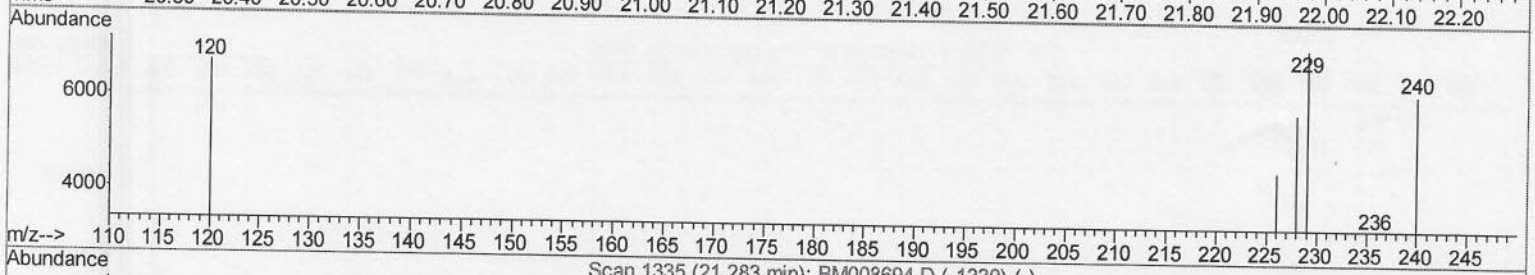
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

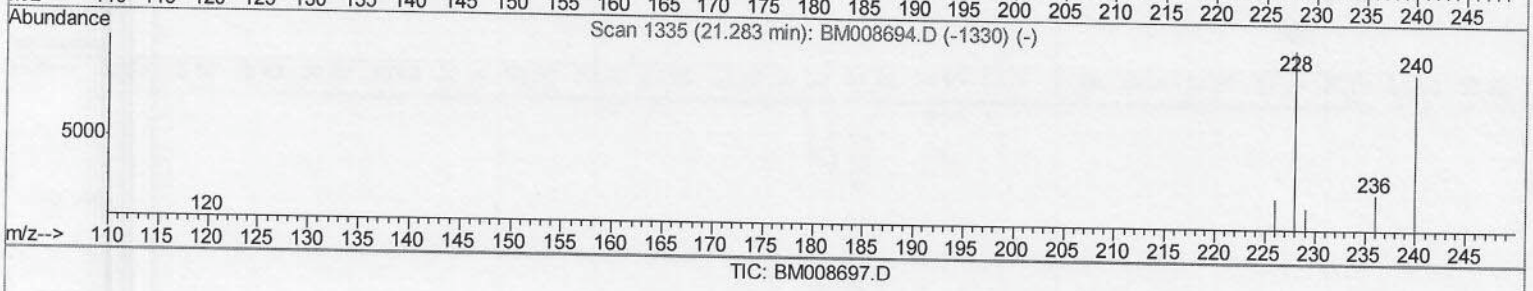
Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(16) Chrysene-d12 (I)

21.266min (-0.018) 0.40ng/ul m > S.J 12/30/16

response 8028

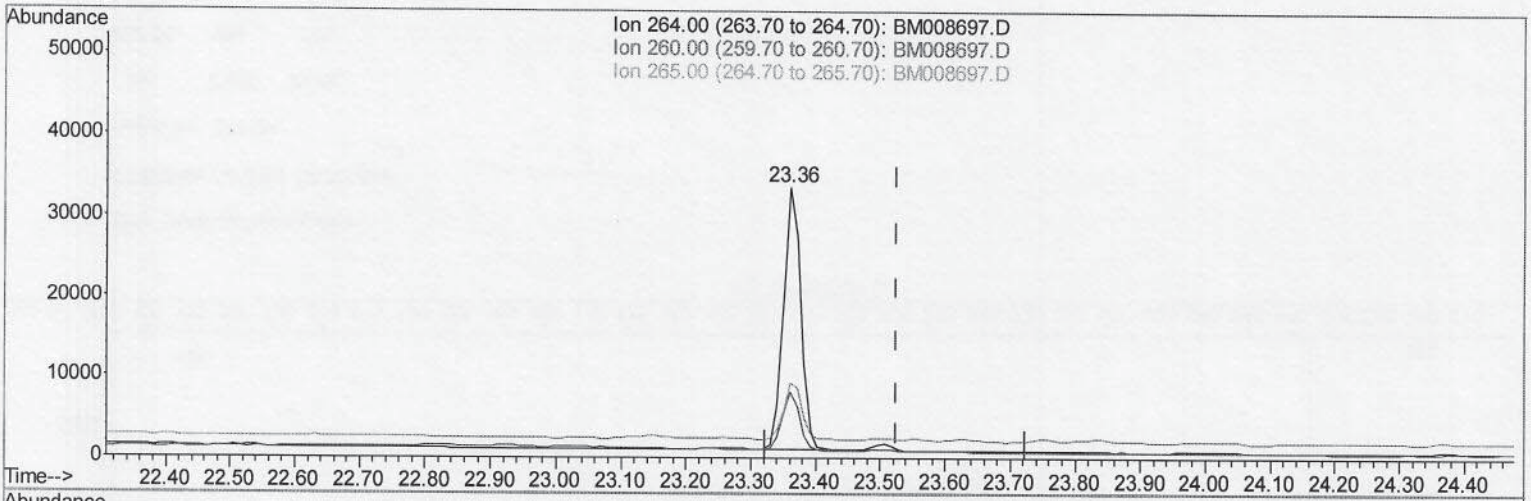
| Ion | Exp% | Act% |
|---|---|---|
| 240.00 | 100 | 100 |
| 120.00 | 20.60 | 107.63# |
| 236.00 | 34.90 | 53.37# |
| 0.00 | 0.00 | 0.00 |

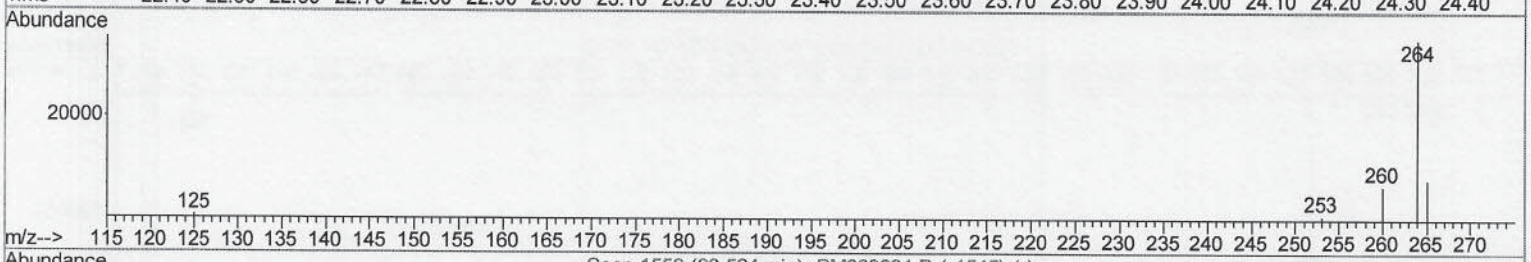
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

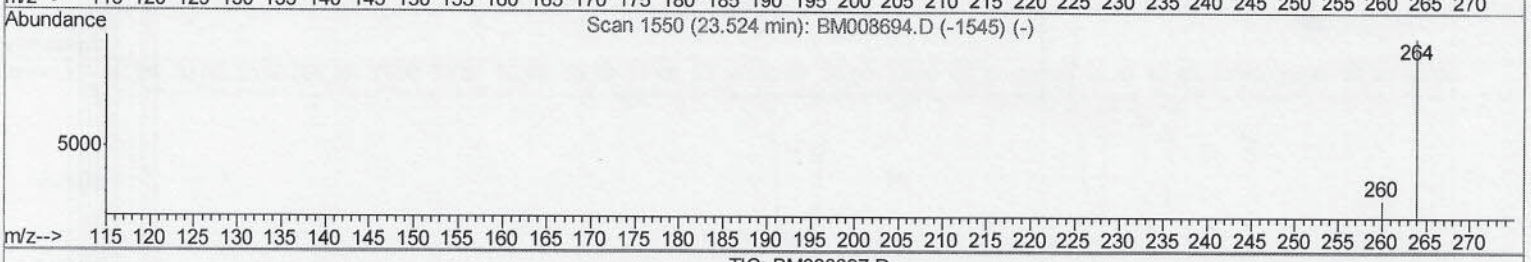
Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(20) Perylene-d12 (I)

23.361min (-0.164) 0.40ng/ul

response 61665

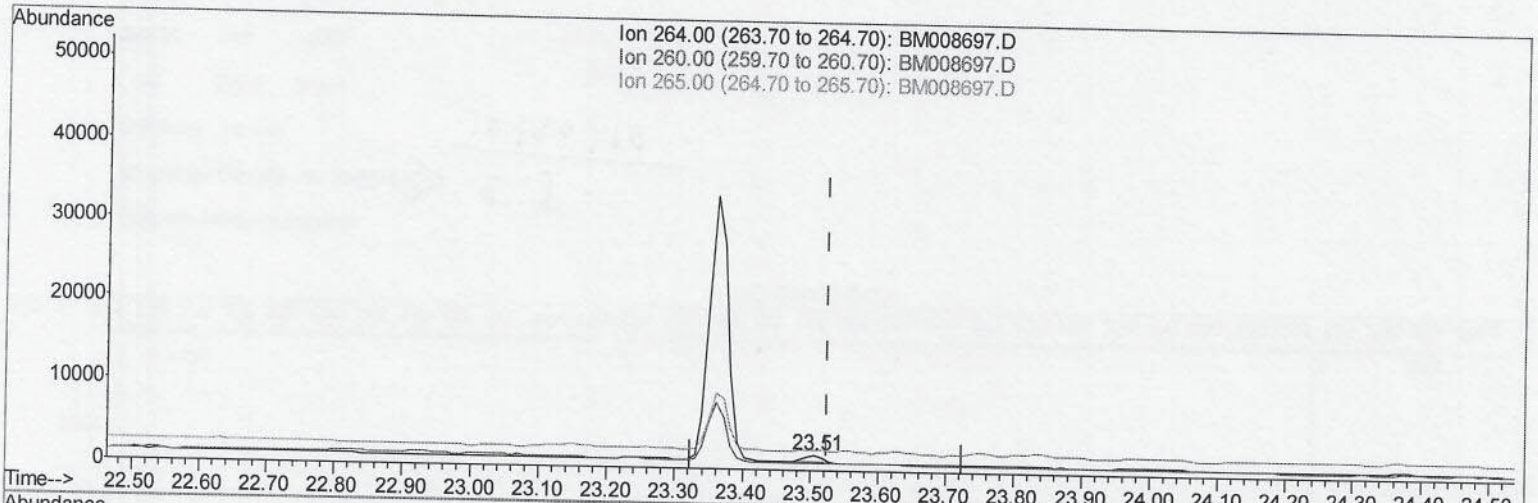
| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 30.10 | 24.28 |
| 265.00 | 103.50 | 27.38# |
| 0.00 | 0.00 | 0.00 |

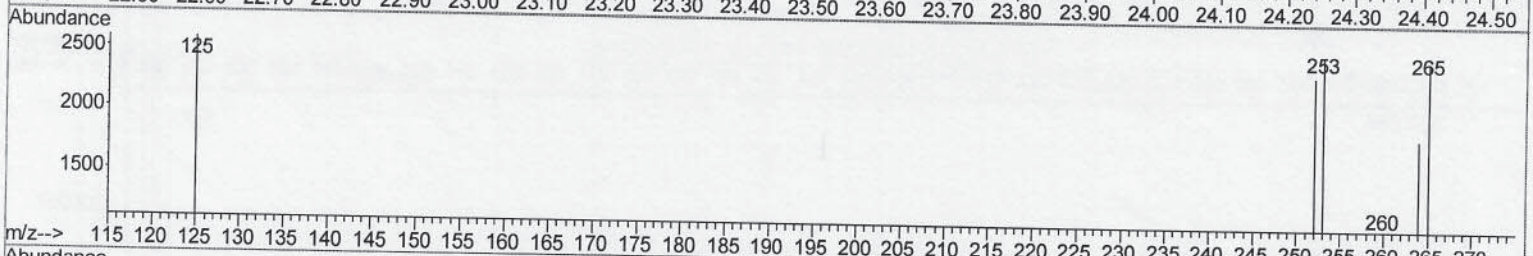
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

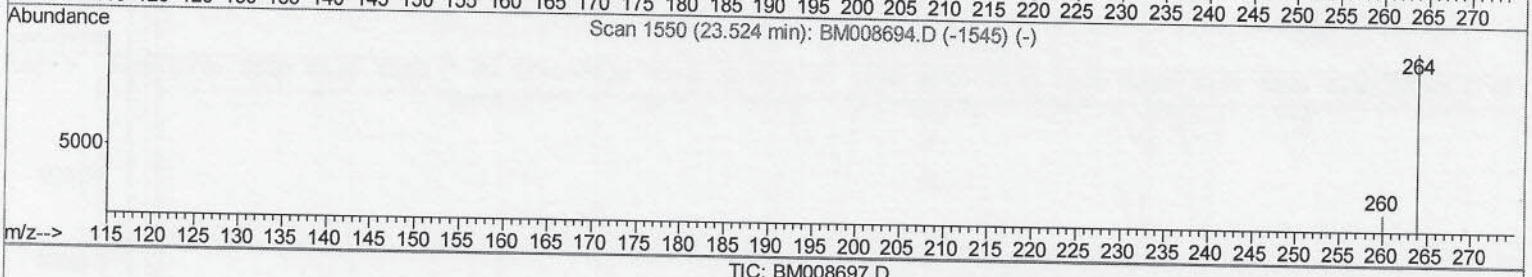
Quant Time: Dec 29 03:33:03 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




(20) Perylene-d12 (I)

23.507min (-0.018) 0.40ng/ul m > S.J 12/30/16

response 1987

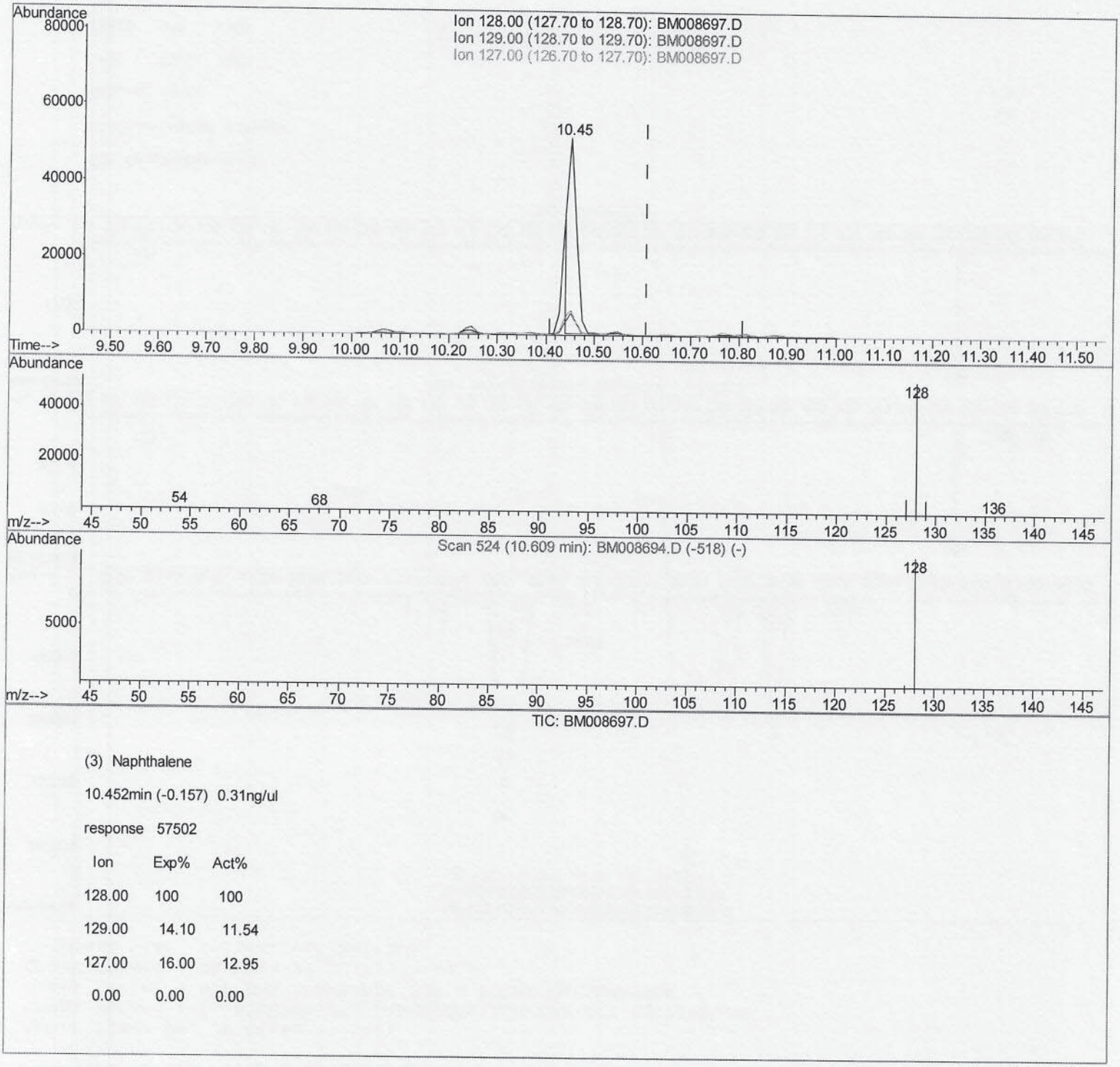
| Ion | Exp% | Act% |
|---|---|---|
| 264.00 | 100 | 100 |
| 260.00 | 30.10 | 60.29# |
| 265.00 | 103.50 | 134.43# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(3) Naphthalene

10.452min (-0.157) 0.31ng/ul

response 57502

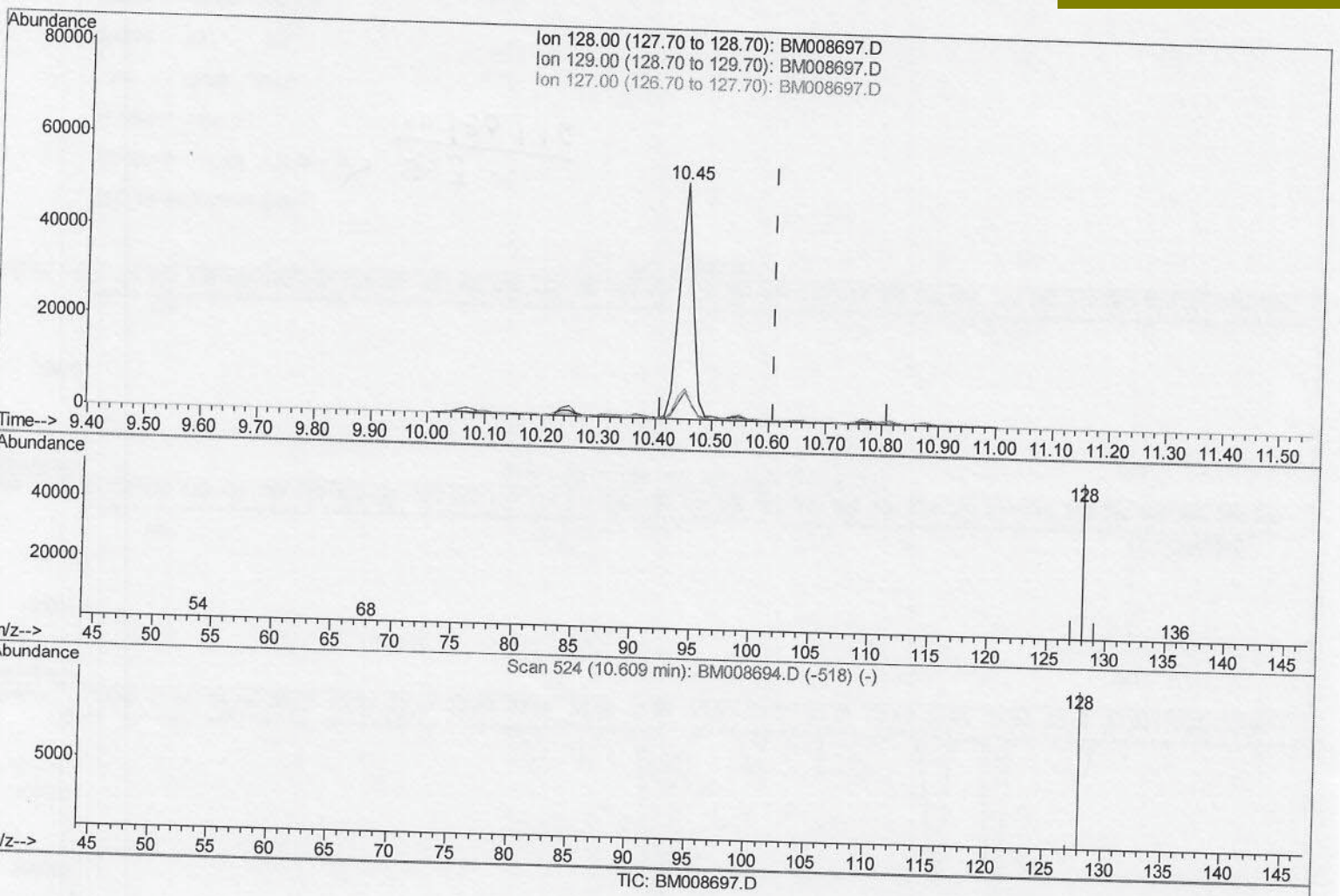
| Ion | Exp% | Act% |
|---|---|---|
| 128.00 | 100 | 100 |
| 129.00 | 14.10 | 11.54 |
| 127.00 | 16.00 | 12.95 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM



TIC: BM008697.D

(3) Naphthalene

10.452min (-0.157) 0.46ng/ul m > S.J 12|30|16

response 87241

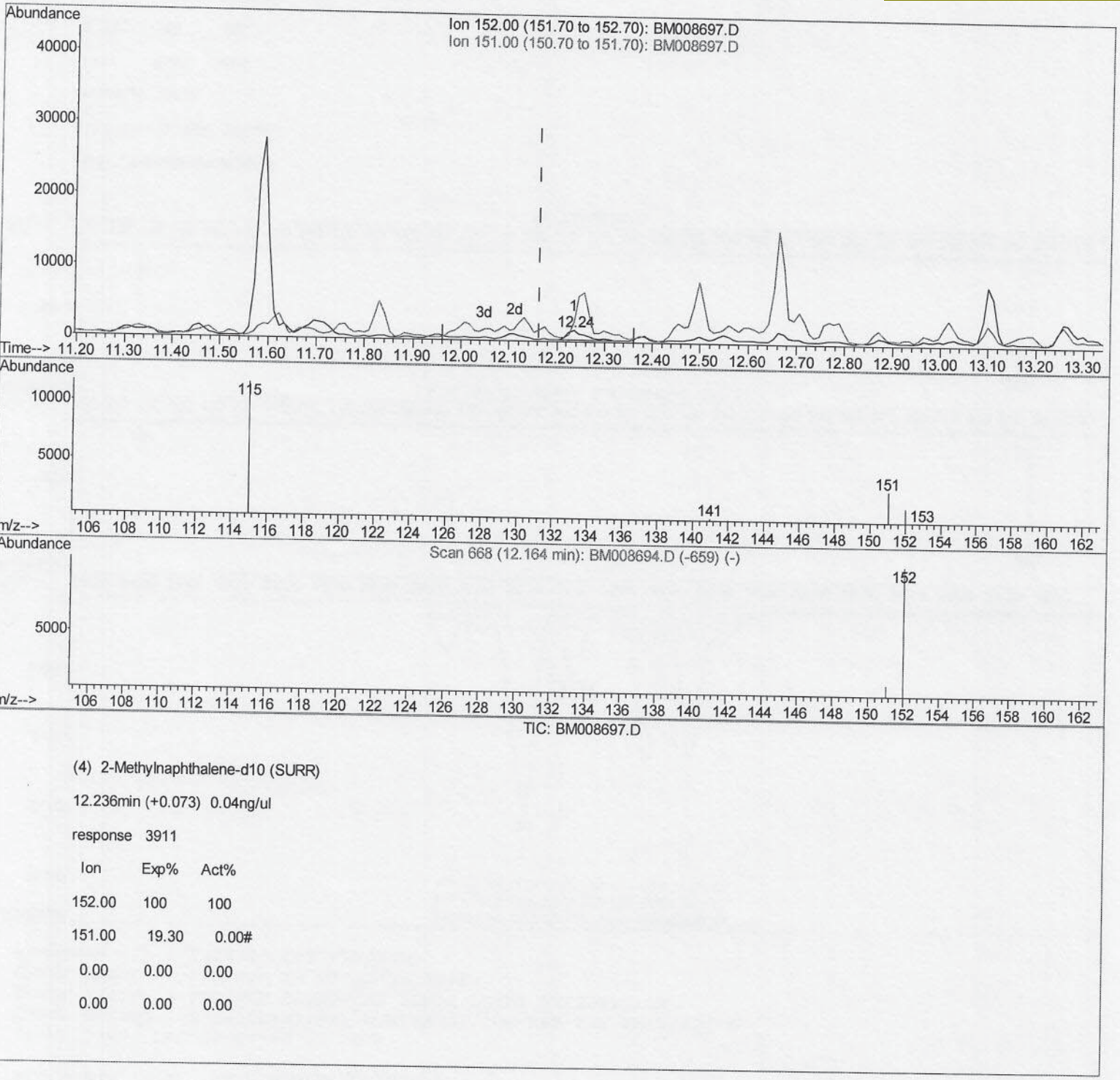
| Ion | Exp% | Act% |
|---|---|---|
| 128.00 | 100 | 100 |
| 129.00 | 14.10 | 11.54 |
| 127.00 | 16.00 | 12.95 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(4) 2-Methylnaphthalene-d10 (SURR)

12.236min (+0.073) 0.04ng/ul

response 3911

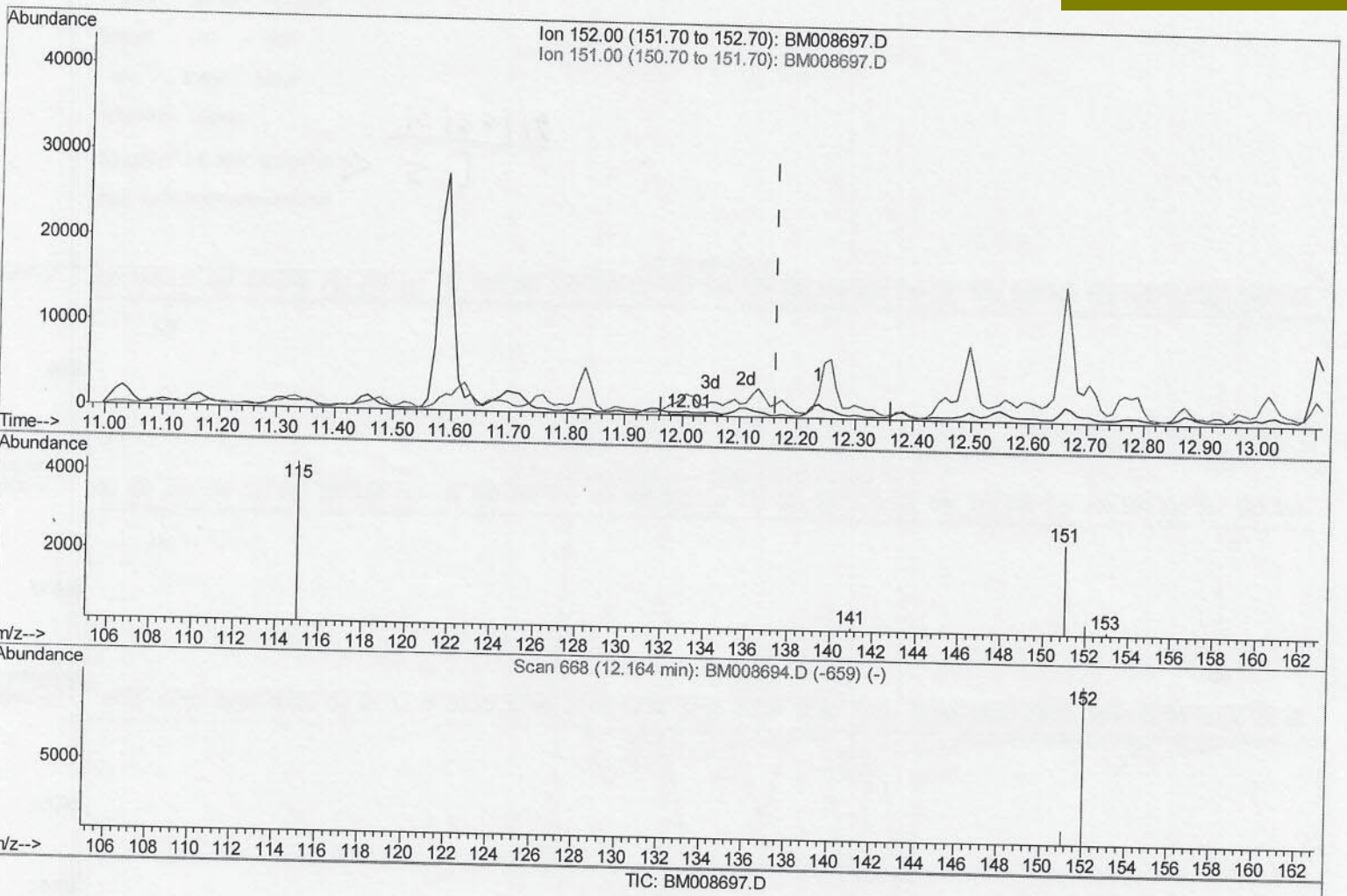
| Ion | Exp% | Act% |
|---|---|---|
| 152.00 | 100 | 100 |
| 151.00 | 19.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




(4) 2-Methylnaphthalene-d10 (SURR)

12.007min (-0.156) 0.01ng/ul m > S.J 12/30/16

response 1526

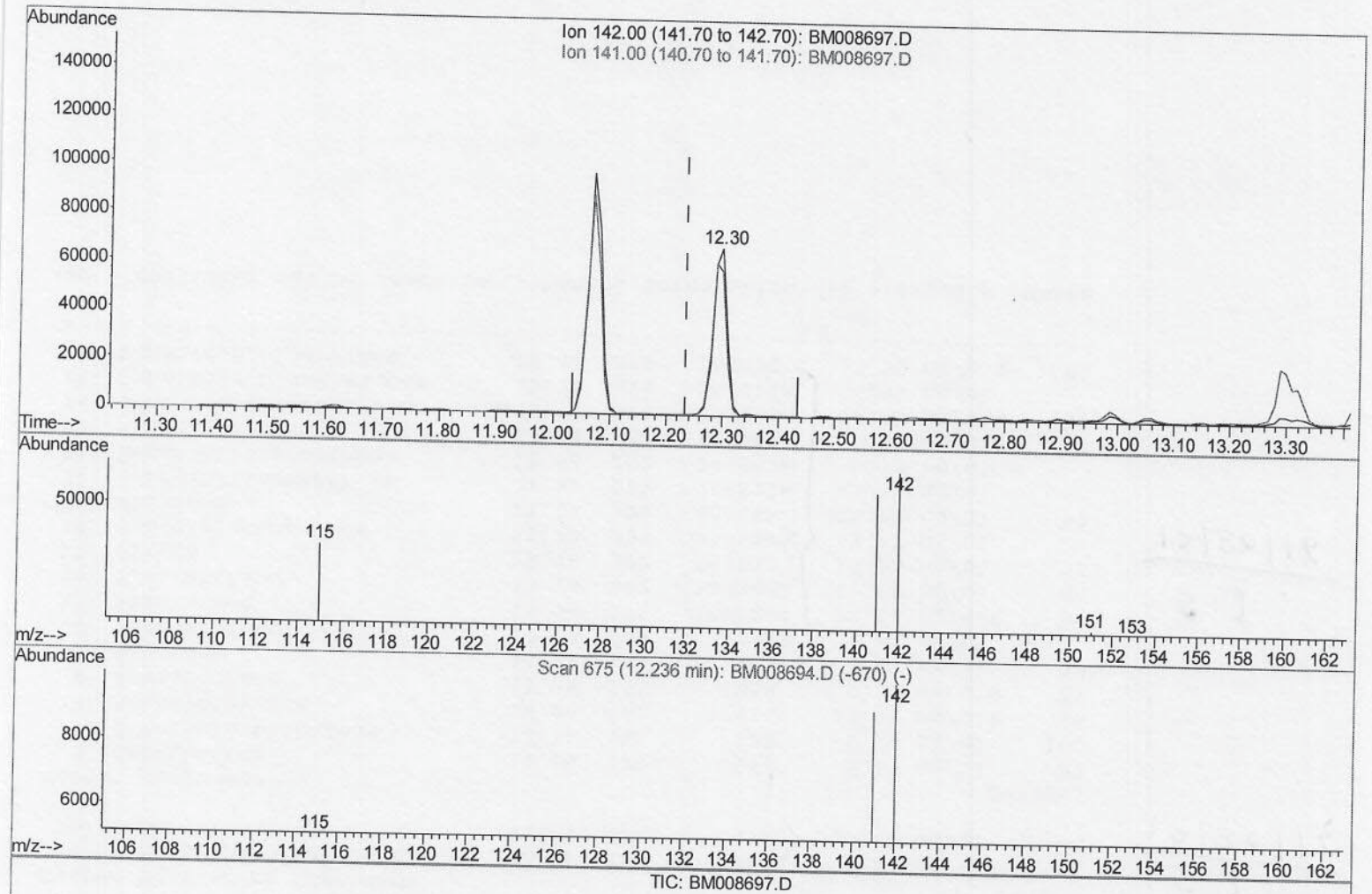
| Ion | Exp% | Act% |
|---|---|---|
| 152.00 | 100 | 100 |
| 151.00 | 19.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(5) 2-Methylnaphthalene

12.299min (+0.062) 0.93ng/ul

response 117611

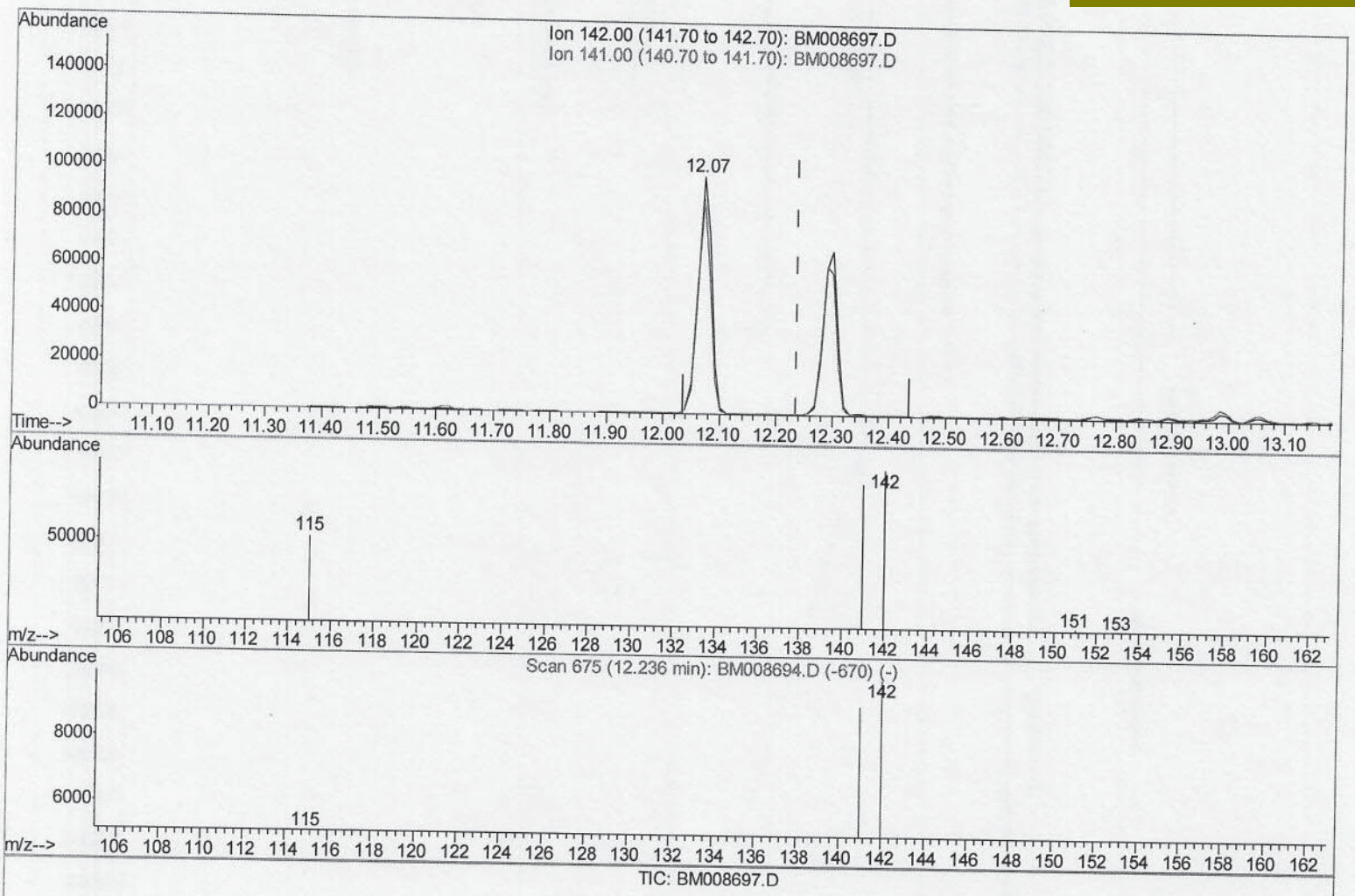
| Ion | Exp% | Act% |
|---|---|---|
| 142.00 | 100 | 100 |
| 141.00 | 90.70 | 91.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM



TIC: BM008697.D

(5) 2-Methylnaphthalene

12.070min (-0.167) 1.27ng/ul m

response 160739

S.J 12/30/16

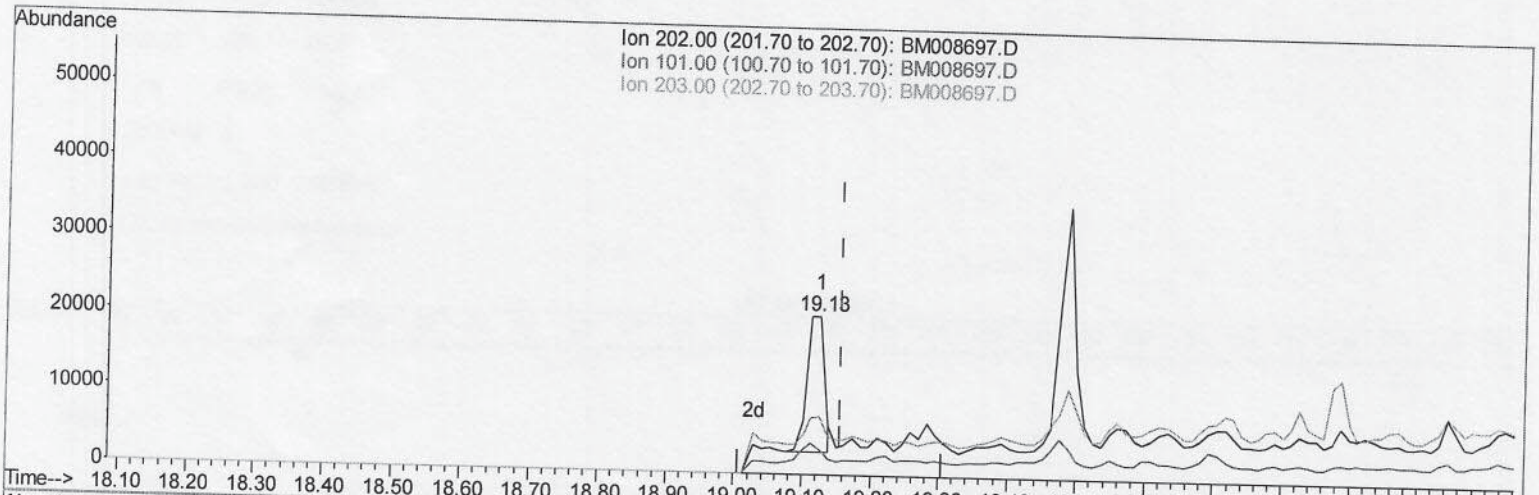
| Ion | Exp% | Act% |
|---|---|---|
| 142.00 | 100 | 100 |
| 141.00 | 90.70 | 67.01# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

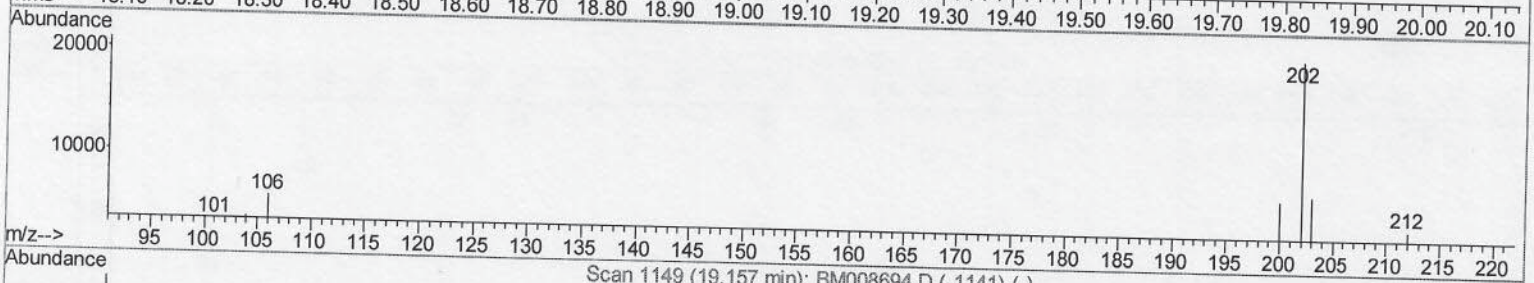
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

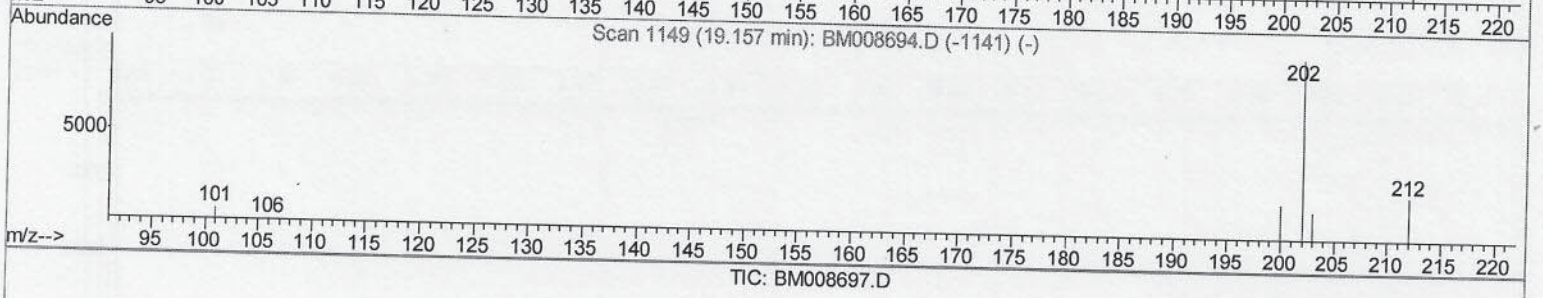
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(15) Fluoranthene (C)

19.125min (-0.031) 0.08ng/ul

response 31437

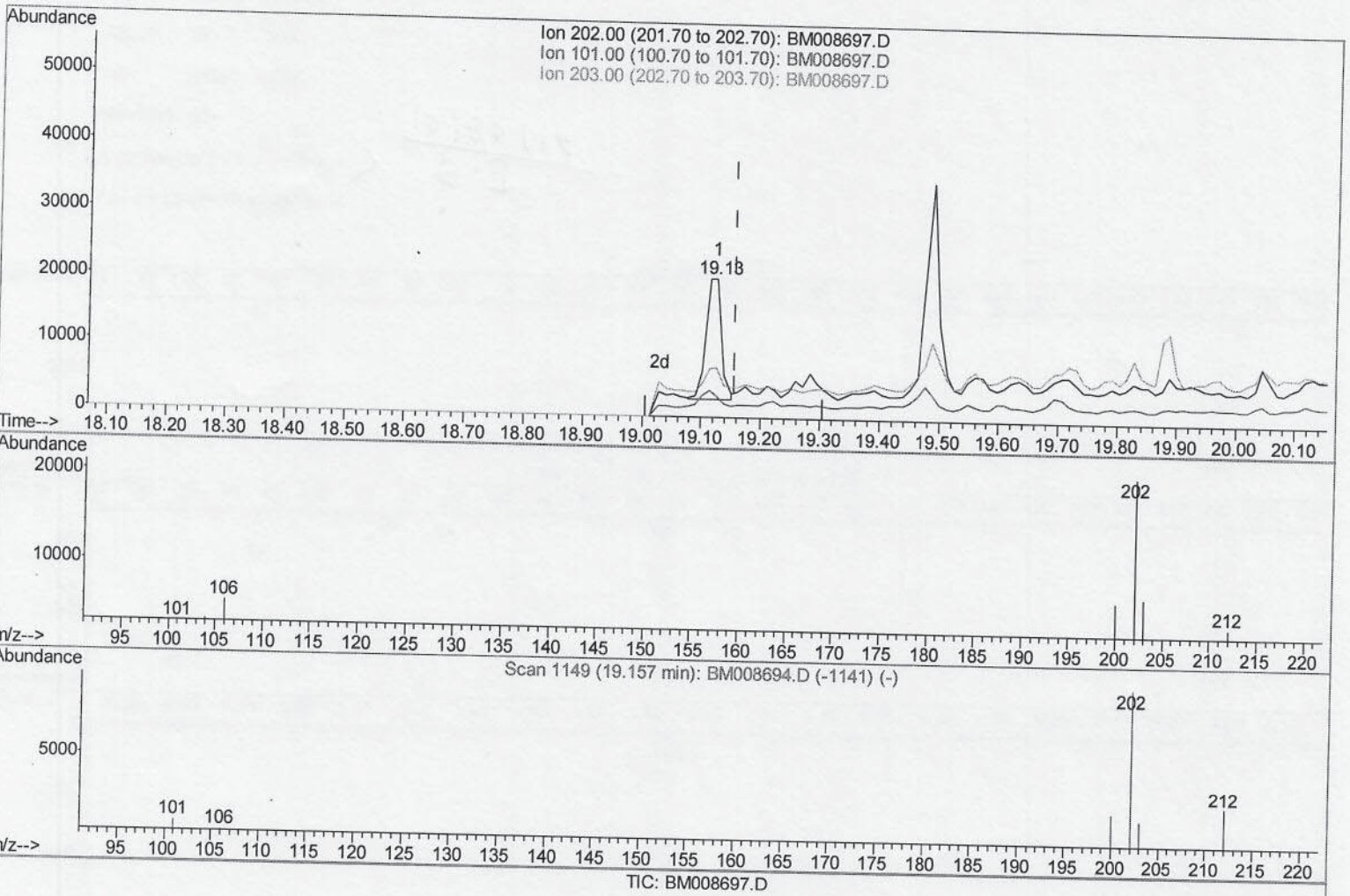
| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.30 | 15.57 |
| 203.00 | 19.50 | 35.74 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(15) Fluoranthene (C)

19.125min (-0.031) 0.08ng/ul m > S.J 12/30/16

response 32746

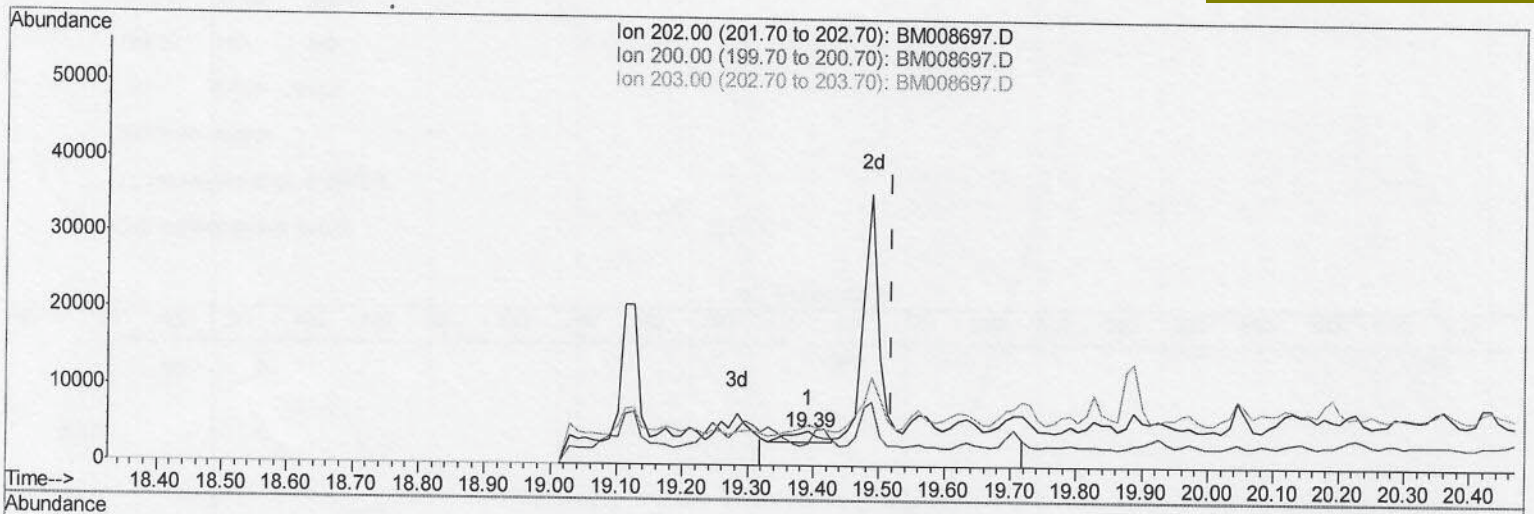
| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 101.00 | 10.30 | 15.57 |
| 203.00 | 19.50 | 35.74 |
| 0.00 | 0.00 | 0.00 |

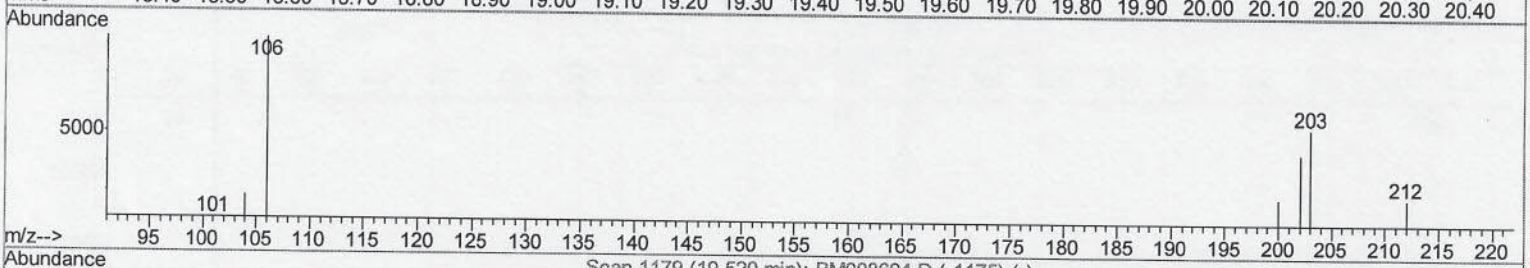
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

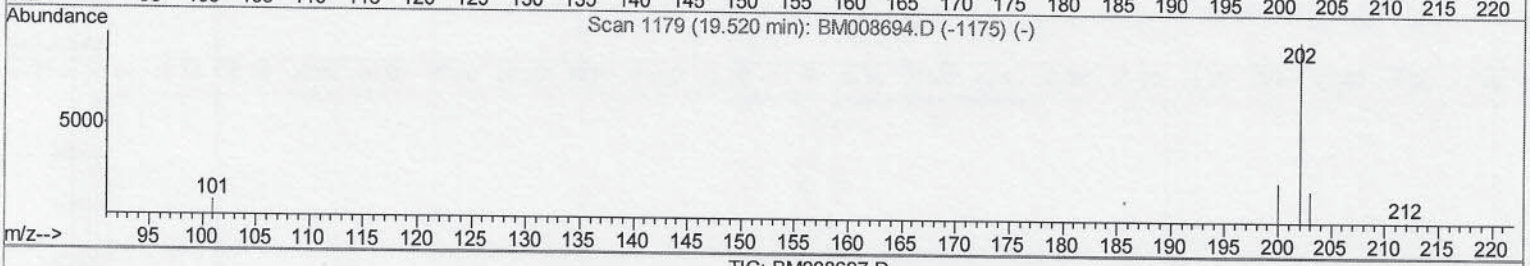
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(17) Pyrene

19.392min (-0.128) 0.14ng/ul

response 4286

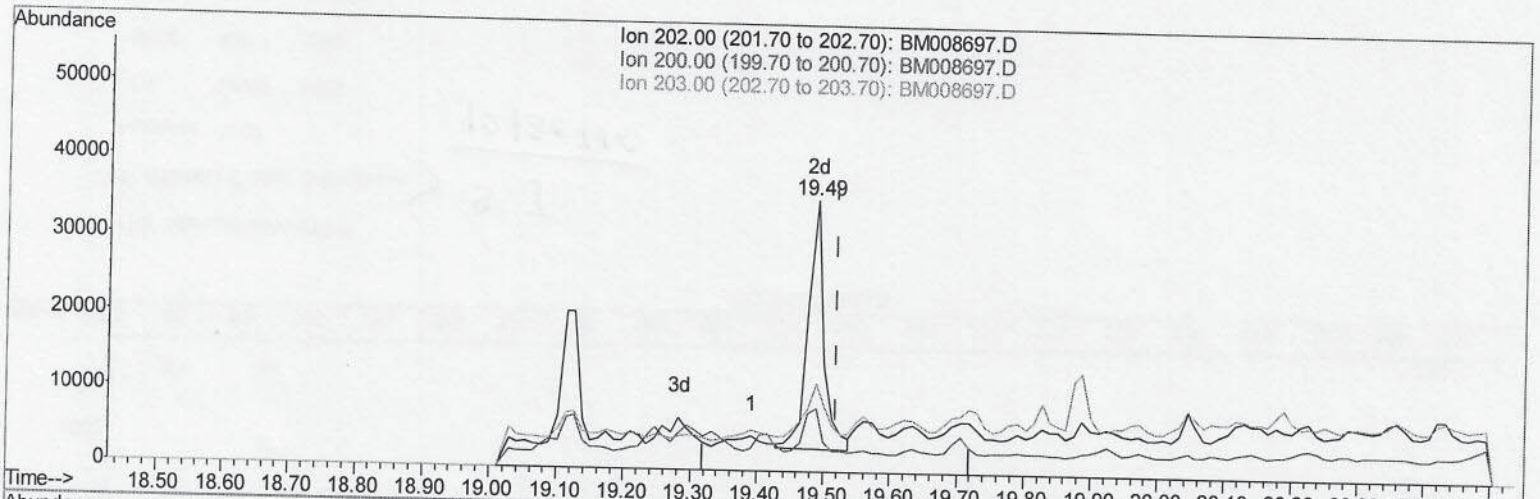
| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 200.00 | 22.80 | 66.01# |
| 203.00 | 19.50 | 118.72# |
| 0.00 | 0.00 | 0.00 |

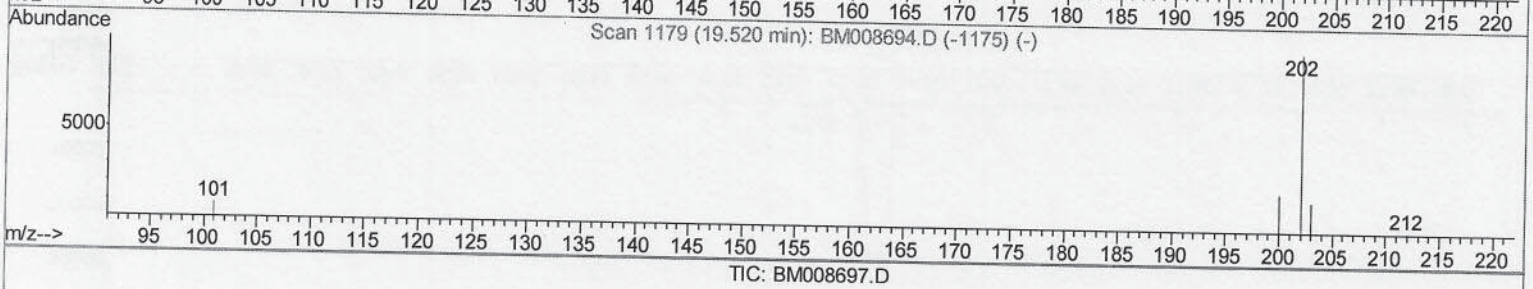
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(17) Pyrene

19.488min (-0.031) 1.78ng/ul m > S.J 12/30/16

response 55189

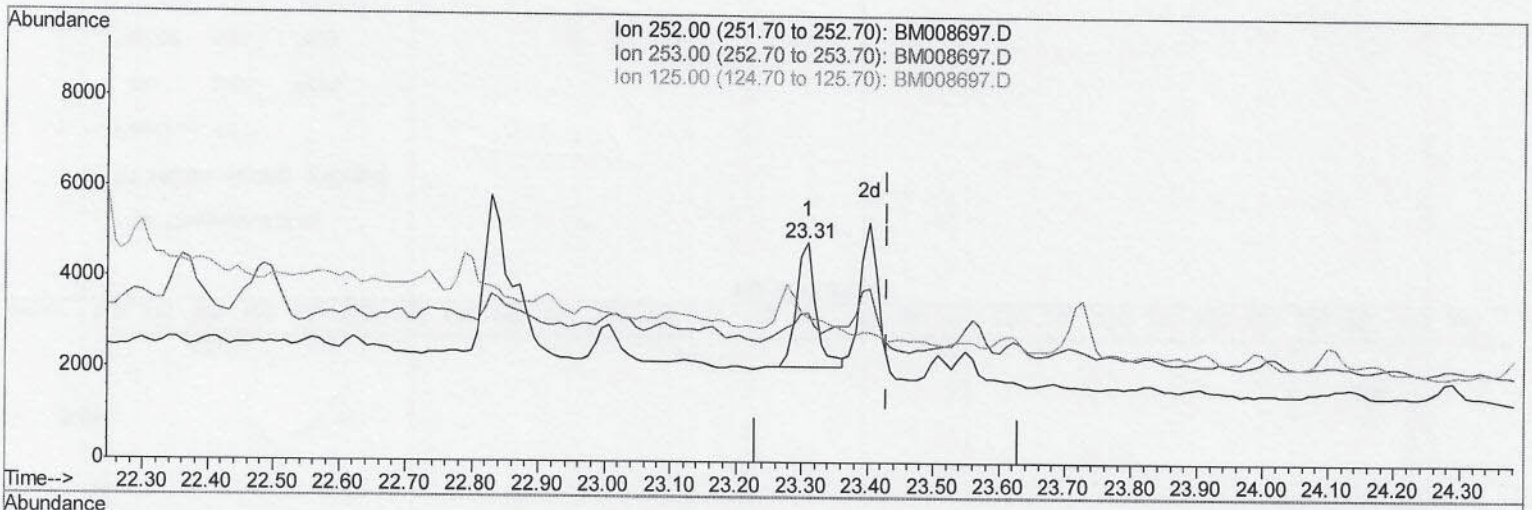
| Ion | Exp% | Act% |
|---|---|---|
| 202.00 | 100 | 100 |
| 200.00 | 22.80 | 23.80 |
| 203.00 | 19.50 | 32.81# |
| 0.00 | 0.00 | 0.00 |

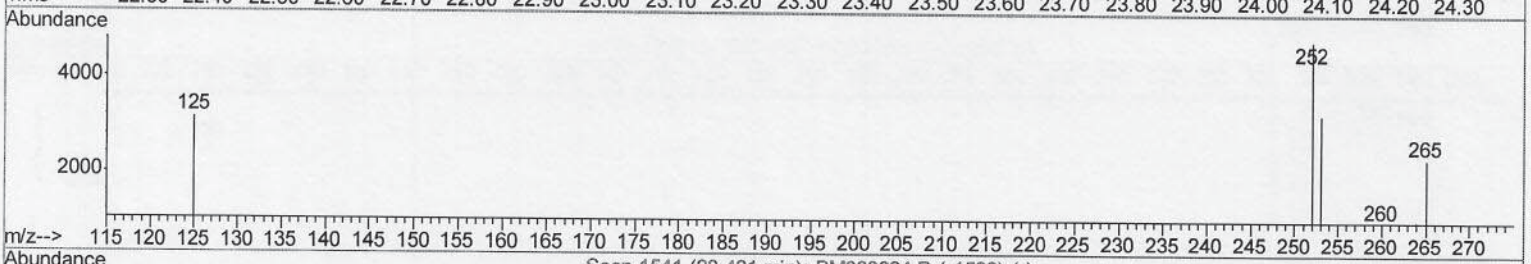
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

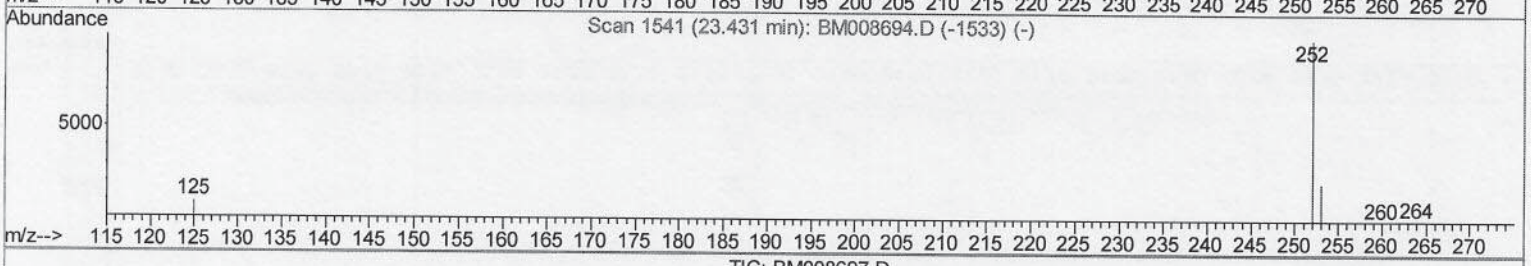
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(23) Benzo(a)pyrene (C)

23.309min (-0.122) 0.78ng/ul

response 5626

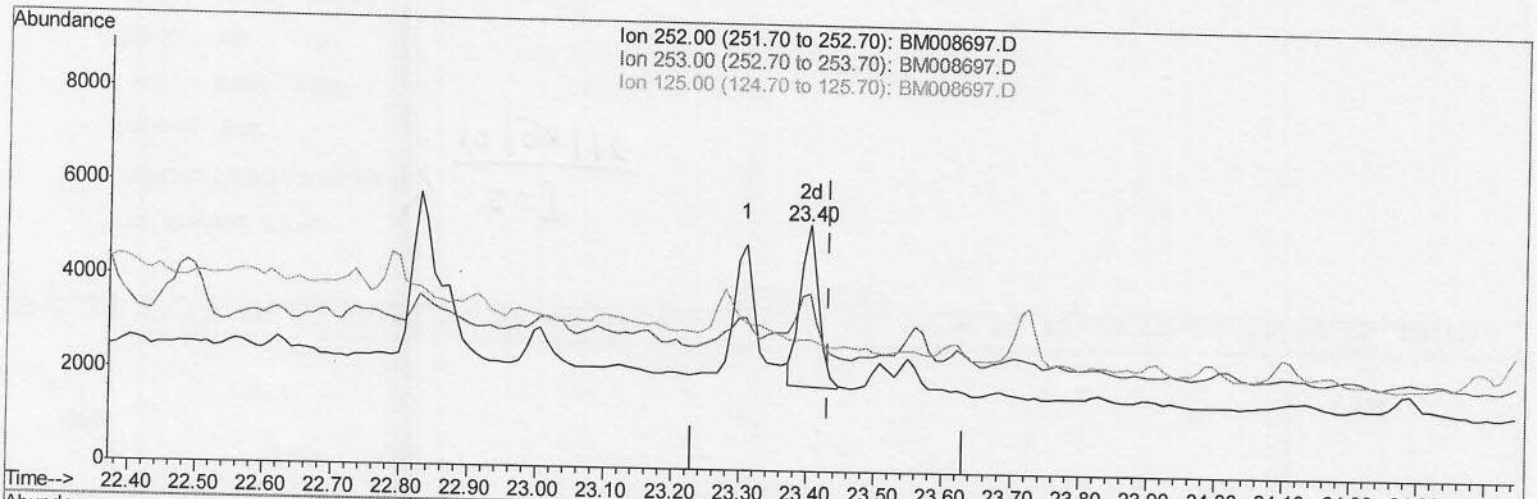
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 35.60 | 68.30# |
| 125.00 | 22.60 | 65.72# |
| 0.00 | 0.00 | 0.00 |

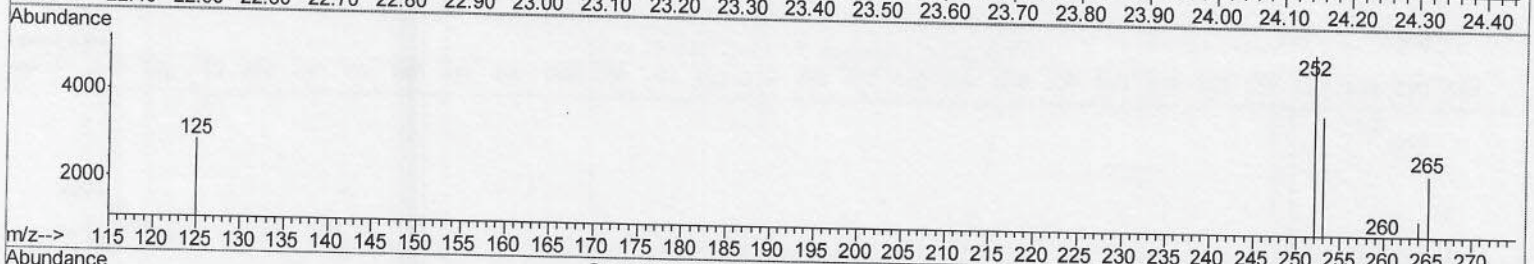
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

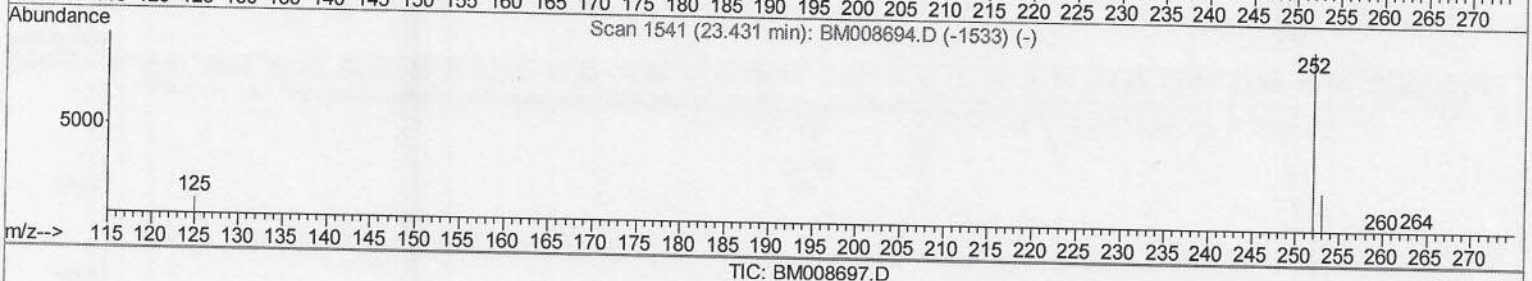
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(23) Benzo(a)pyrene (C)

23.403min (-0.028) 0.89ng/ul m

response 6493

S.J 12/30/16

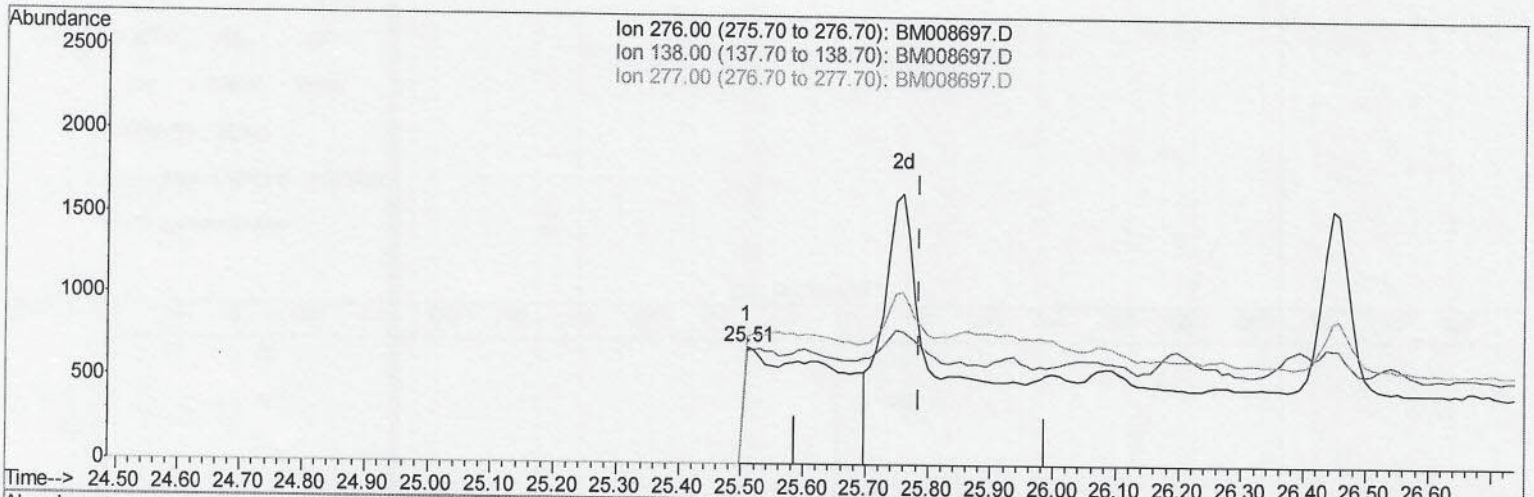
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 35.60 | 72.54# |
| 125.00 | 22.60 | 54.06# |
| 0.00 | 0.00 | 0.00 |

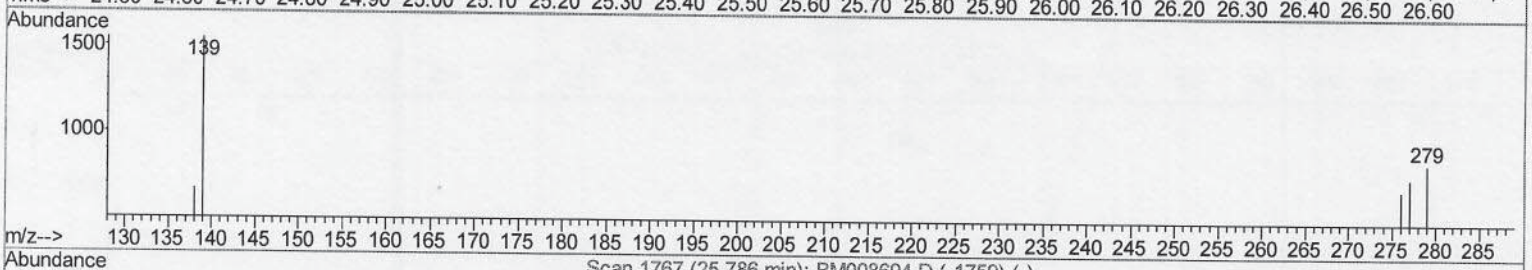
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

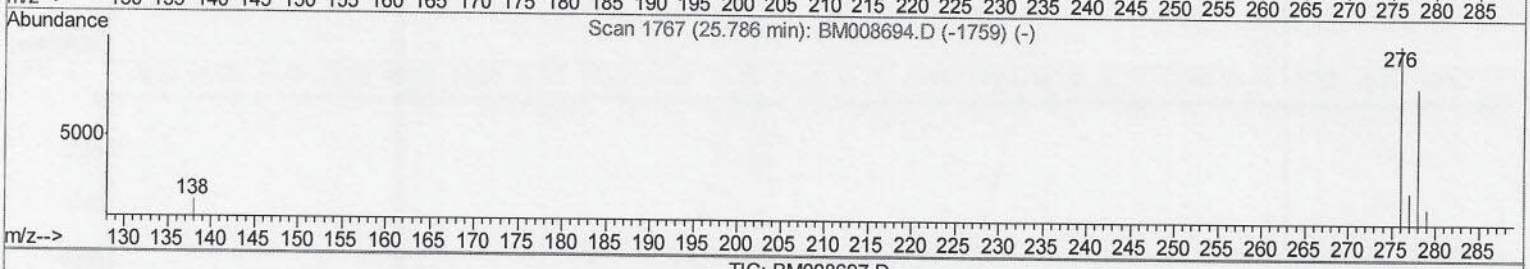
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(24) Indeno(1,2,3-cd)pyrene

25.508min (-0.278) 0.82ng/ul

response 7051

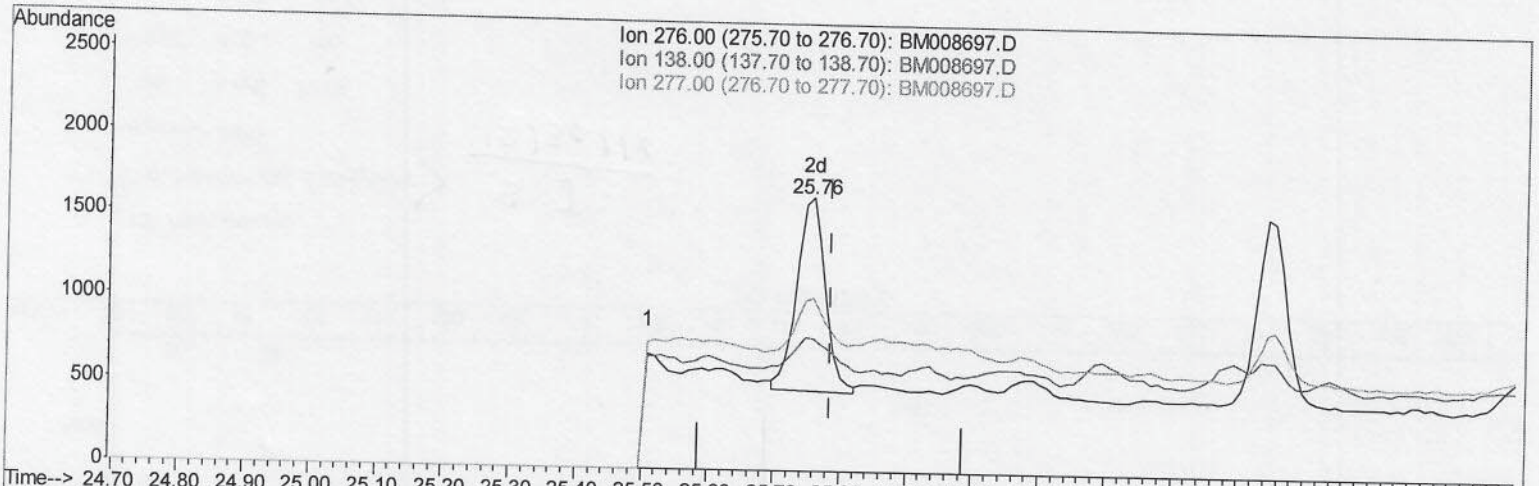
| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 23.90 | 0.00# |
| 277.00 | 24.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

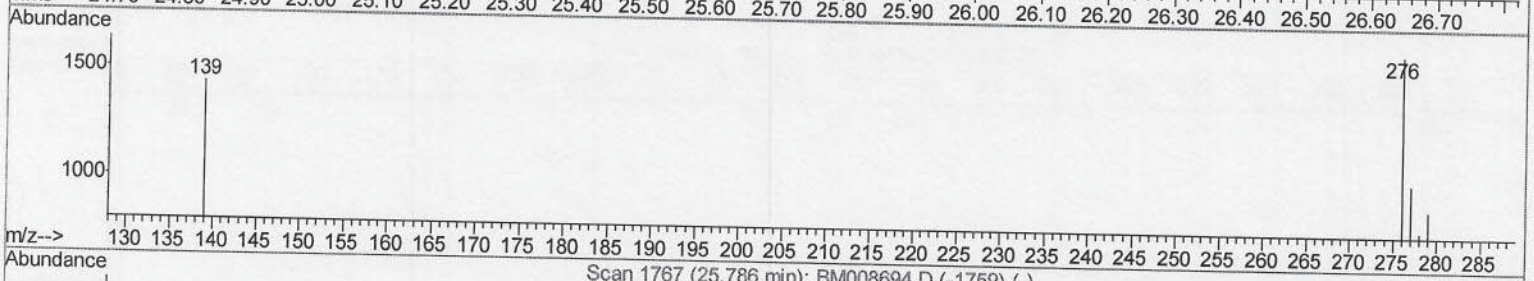
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

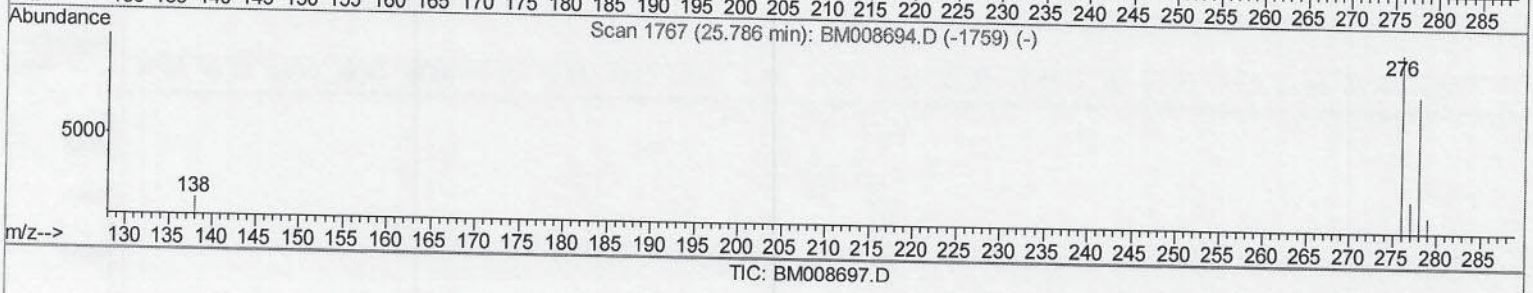
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(24) Indeno(1,2,3-cd)pyrene

25.758min (-0.028) 0.40ng/ul m > S.J 12/30/16

response 3461

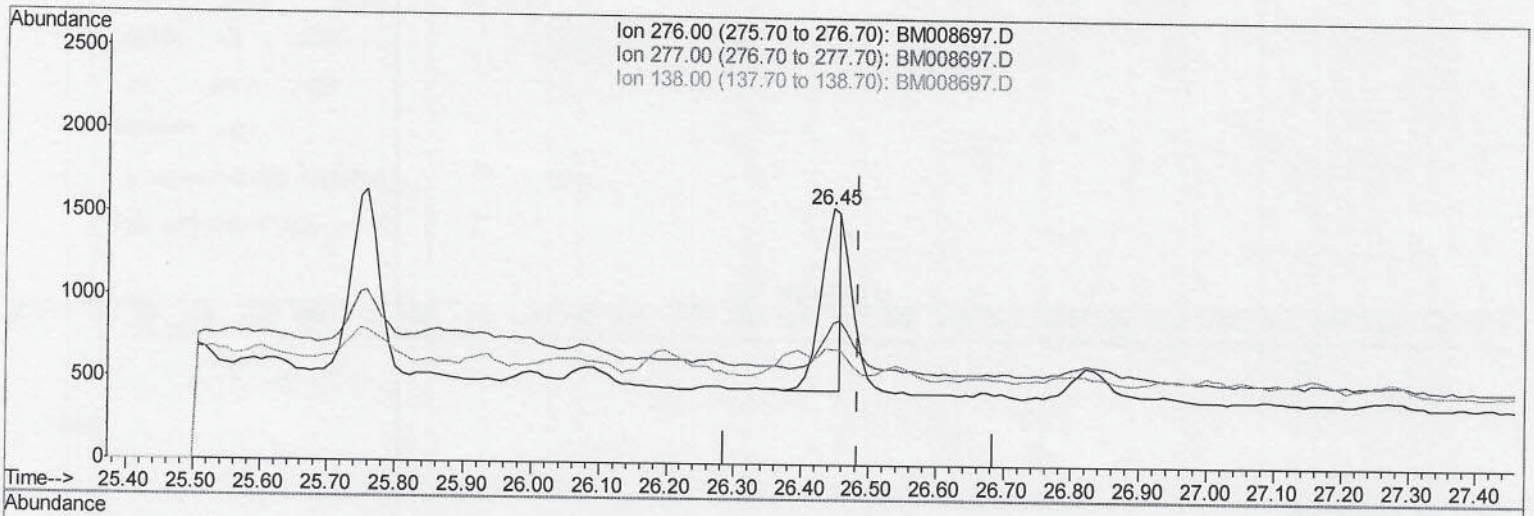
| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 138.00 | 23.90 | 0.00# |
| 277.00 | 24.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

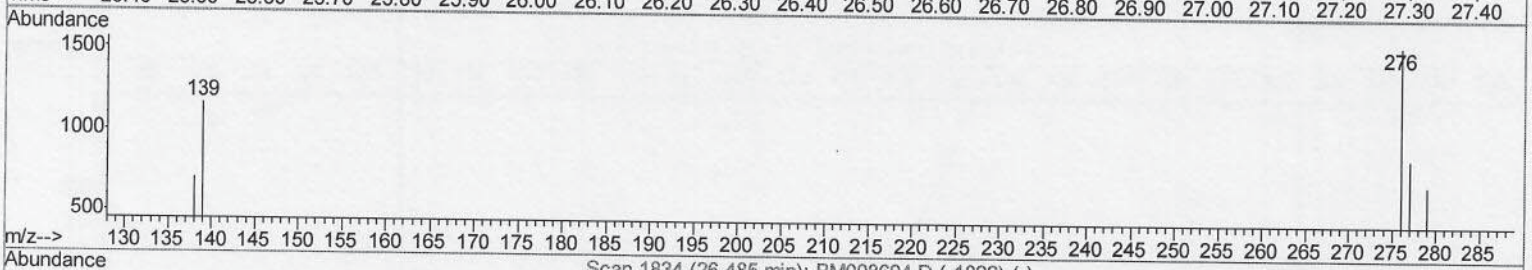
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

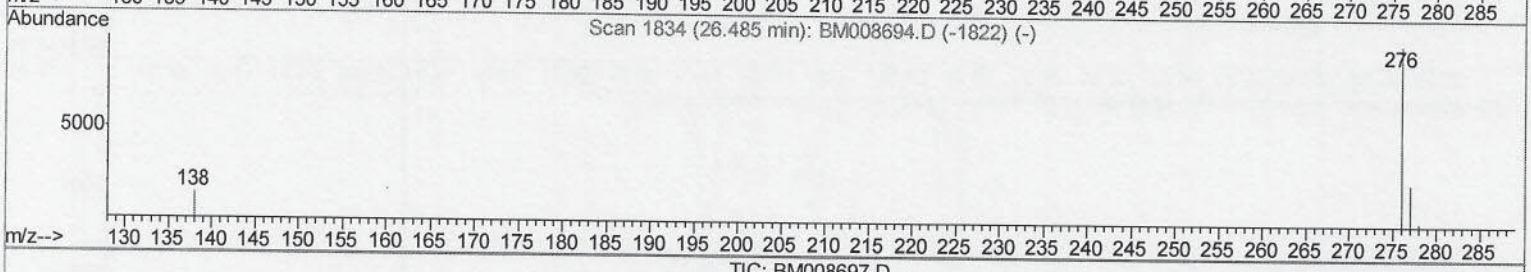
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(26) Benzo(g,h,i)perylene

26.446min (-0.038) 0.33ng/ul

response 2421

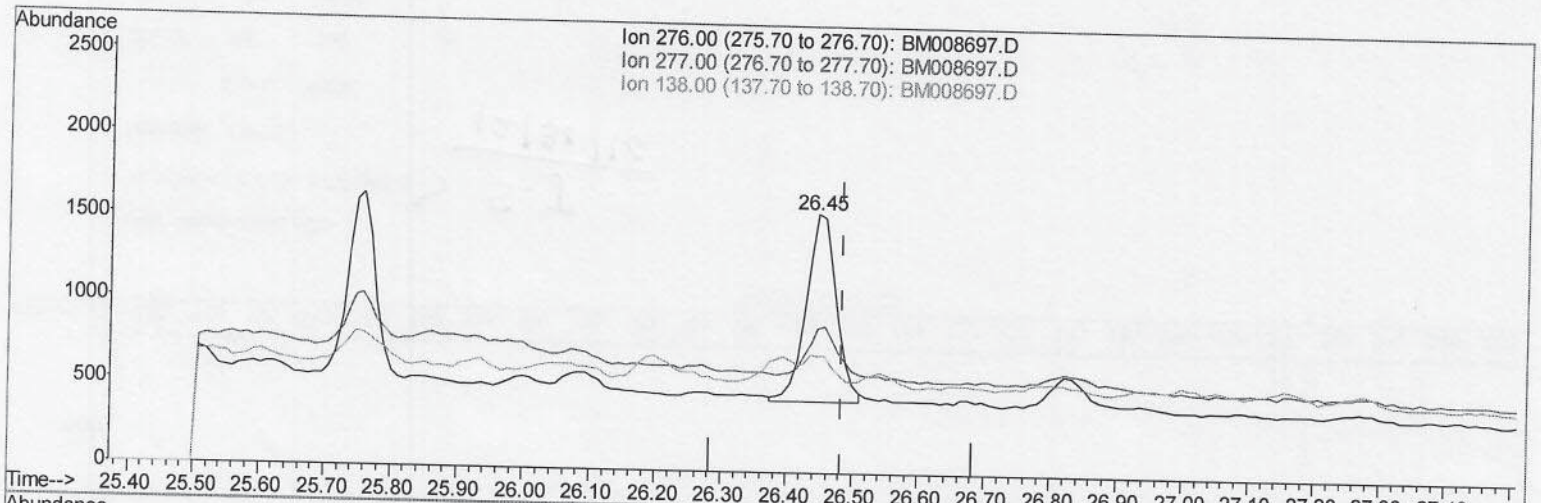
| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 277.00 | 27.30 | 55.69# |
| 138.00 | 25.60 | 45.14# |
| 0.00 | 0.00 | 0.00 |

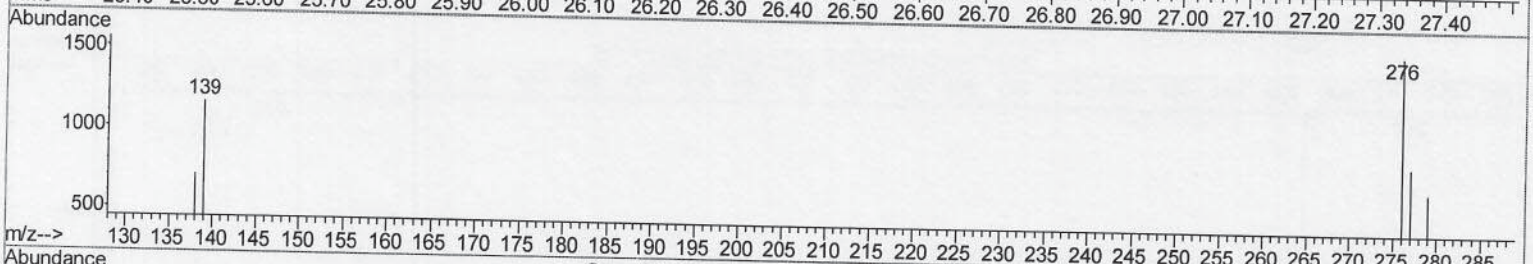
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

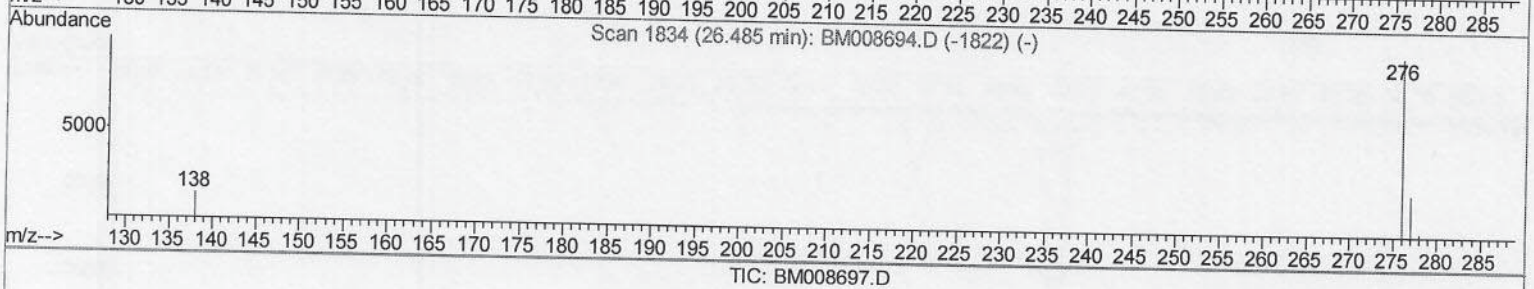
Quant Time: Dec 29 03:49:05 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(26) Benzo(g,h,i)perylene

26.446min (-0.038) 0.49ng/ul m > S.J 12/30/16

response 3606

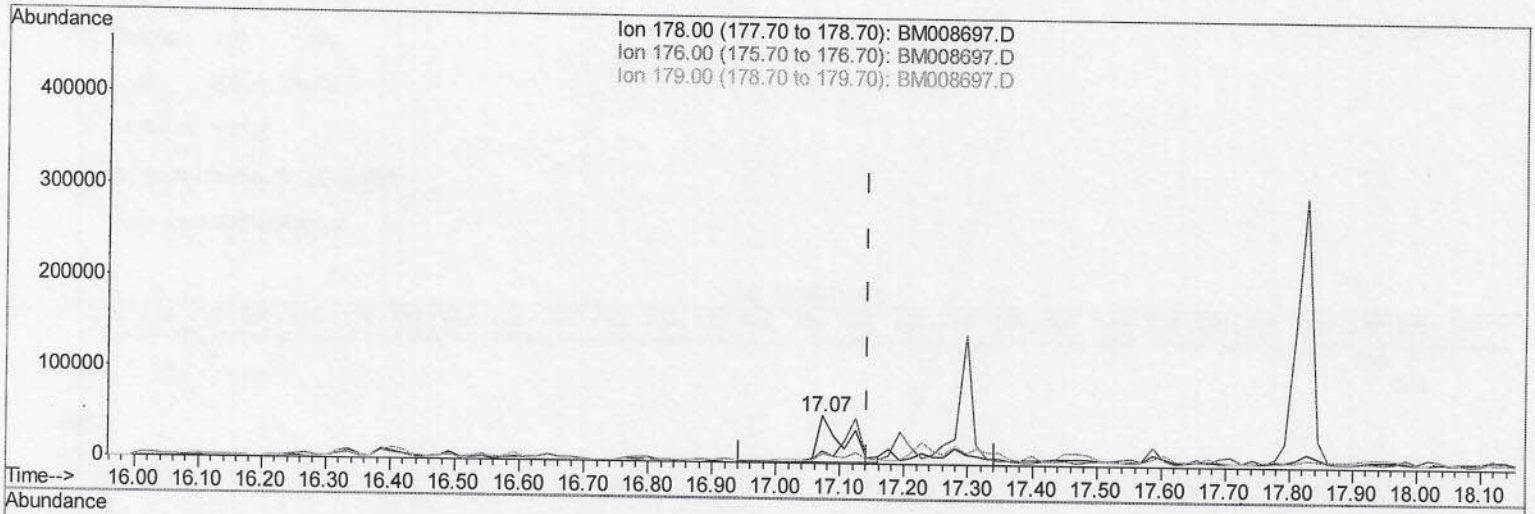
| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100 | 100 |
| 277.00 | 27.30 | 55.69# |
| 138.00 | 25.60 | 45.14# |
| 0.00 | 0.00 | 0.00 |

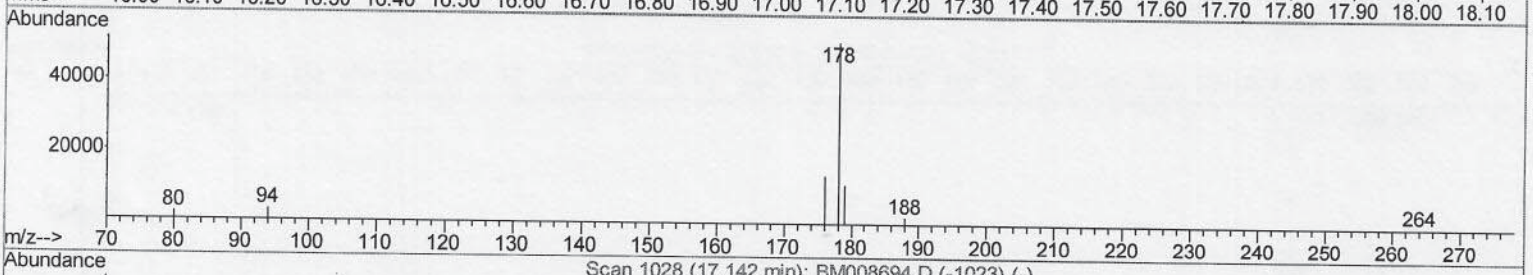
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

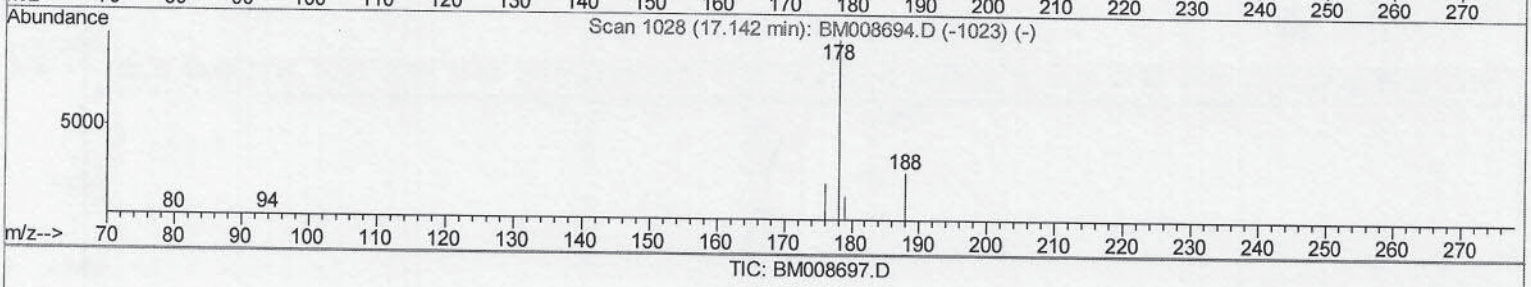
Quant Time: Dec 29 03:52:22 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM




TIC: BM008697.D

(12) Phenanthrene

17.073min (-0.069) 0.48ng/ul

response 151569

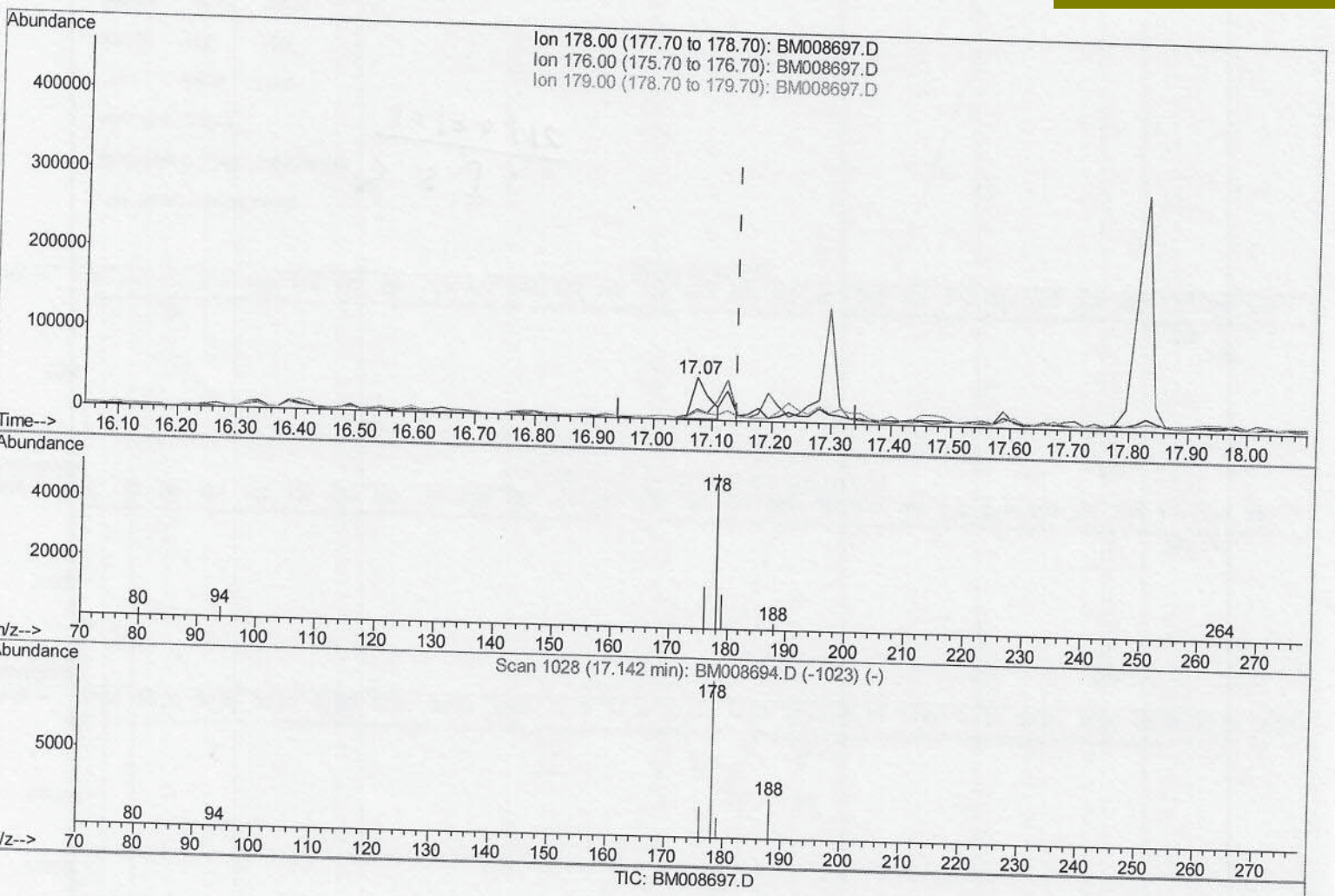
| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 23.00 | 26.82 |
| 179.00 | 17.00 | 22.04# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:52:22 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM



TIC: BM008697.D

(12) Phenanthrene

17.073min (-0.069) 0.32ng/ul m S.J 12/30/16

response 101477

| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 23.00 | 26.82 |
| 179.00 | 17.00 | 22.04# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM

Quant Time: Dec 29 03:53:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.63 | 152 | 509m | 0.40 | ng/ul | -0.19 |
| 2) Naphthalene-d8 | 10.25 | 136 | 66732m | 0.40 | ng/ul | -0.31 |
| 6) Acenaphthene-d10 | 14.31 | 164 | 7016 | 0.40 | ng/ul | -0.03 |
| 10) Phenanthrene-d10 | 17.00 | 188 | 104076 | 0.40 | ng/ul | -0.10 |
| 16) Chrysene-d12 | 21.27 | 240 | 8028m | 0.40 | ng/ul | -0.02 |
| 20) Perylene-d12 | 23.51 | 264 | 1987m | 0.40 | ng/ul | -0.02 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.01 | 152 | 1526m | 0.01 | ng/ul | -0.16 |
| 14) Fluoranthene-d10 | 19.08 | 212 | 30191 | 0.11 | ng/ul | -0.06 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 10.45 | 128 | 87241m | 0.46 | ng/ul | |
| 5) 2-Methylnaphthalene | 12.07 | 142 | 160739m | 1.27 | ng/ul | |
| 7) Acenaphthylene | 14.00 | 152 | 8603 | 0.27 | ng/ul# | 29 |
| 8) Acenaphthene | 14.33 | 153 | 20613 | 0.86 | ng/ul | 88 |
| 9) Fluorene | 15.34 | 166 | 92690 | 3.40 | ng/ul | 95 |
| 12) Phenanthrene | 17.07 | 178 | 101477m | 0.32 | ng/ul | |
| 15) Fluoranthene | 19.13 | 202 | 32746m | 0.08 | ng/ul | |
| 17) Pyrene | 19.49 | 202 | 55189m | 1.78 | ng/ul | |
| 23) Benzo(a)pyrene | 23.40 | 252 | 6493m | 0.89 | ng/ul | |
| 24) Indeno(1,2,3-cd)pyrene | 25.76 | 276 | 3461m | 0.40 | ng/ul | |
| 26) Benzo(g,h,i)perylene | 26.45 | 276 | 3606m | 0.49 | ng/ul | |

S.J 12/30/16

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

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008697.D
Acq On : 28 Dec 2016 17:18
Operator : UM/SJ
Sample : H5995-03
Misc :
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 03:53:46 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA864

**Manual Integrations APPROVED**
mohammad
12/30/2016 8:53:26 AM