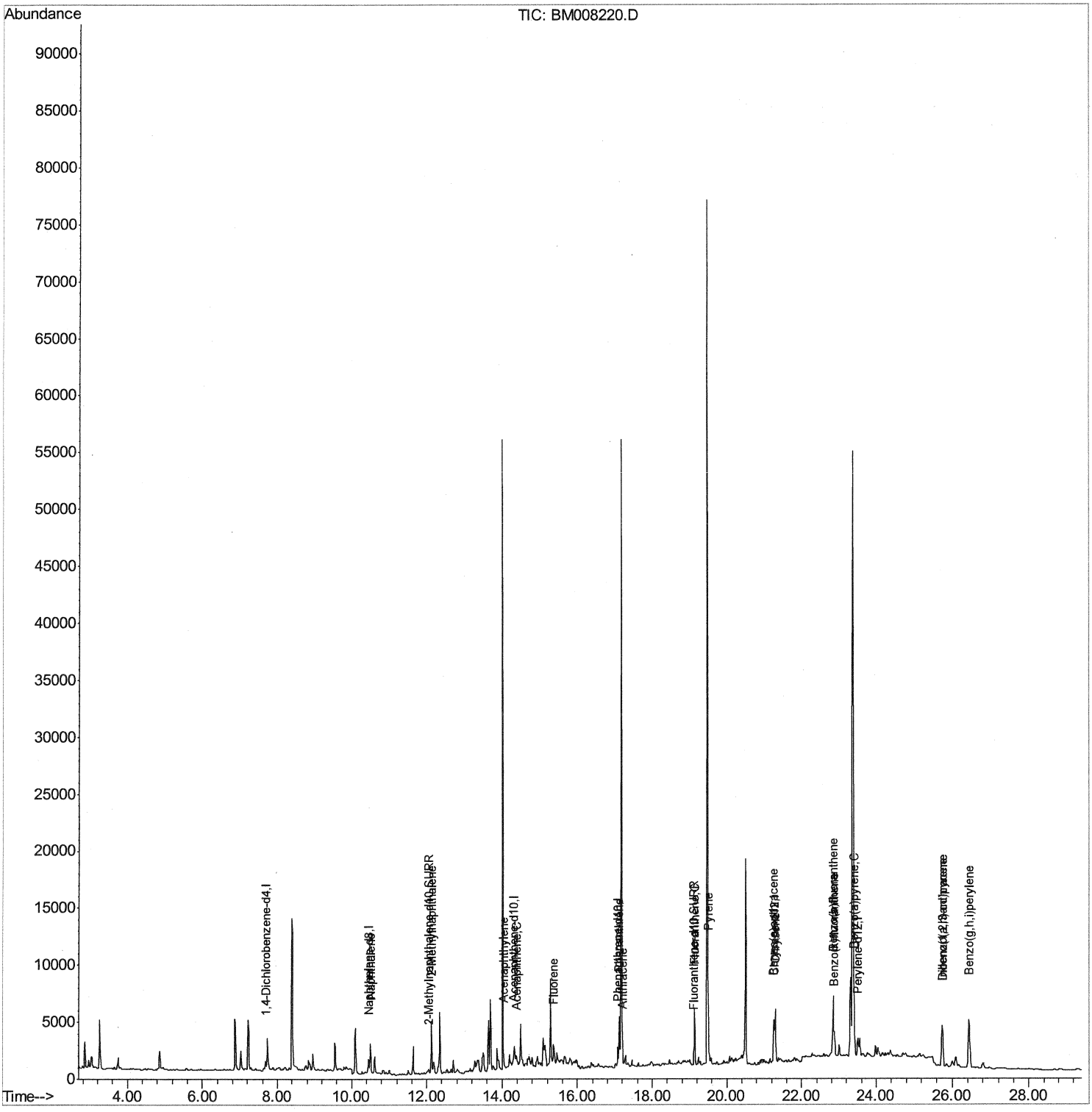
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:11:23 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM



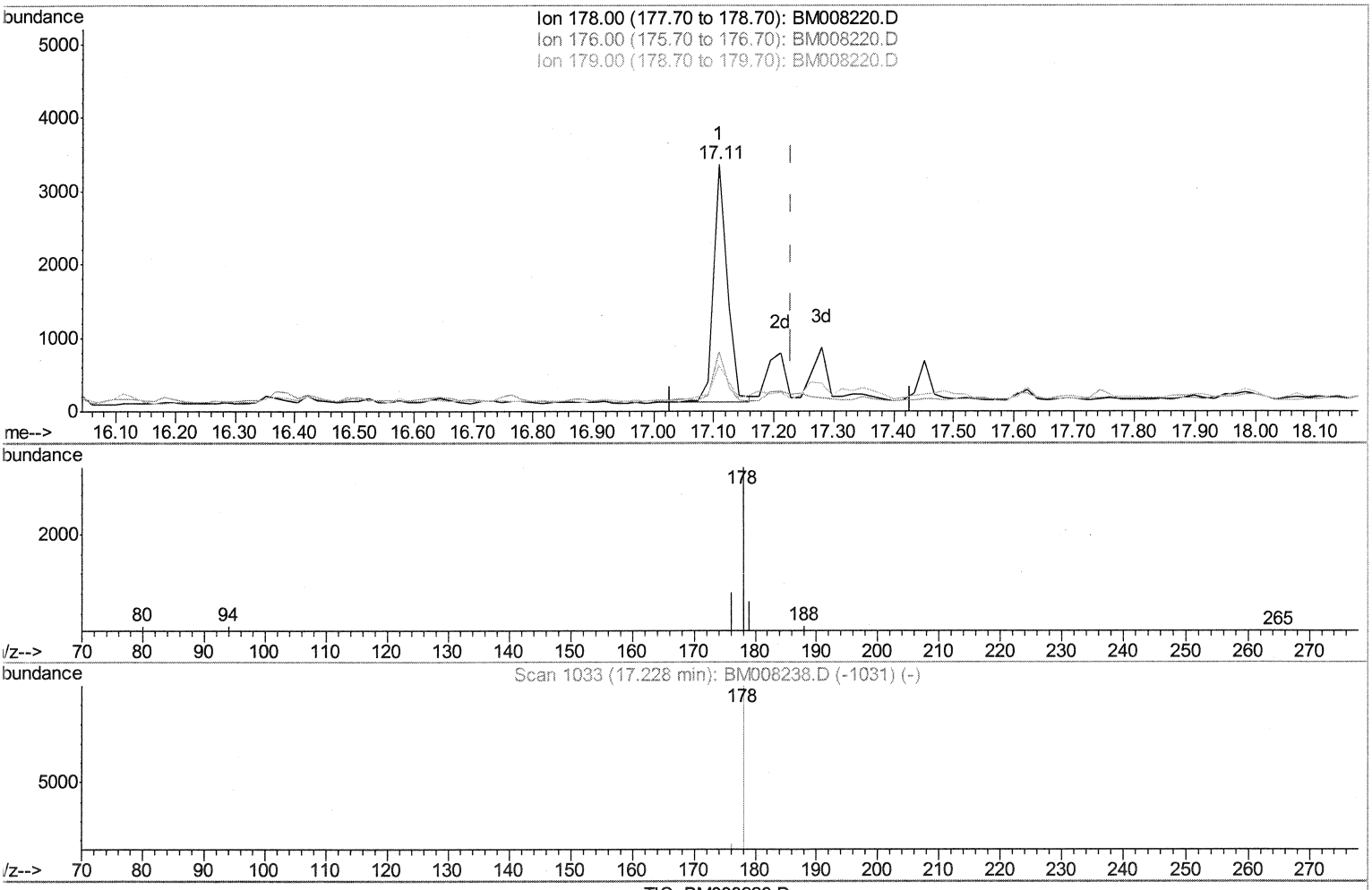
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM




TIC: BM008220.D

(13) Anthracene

17.108min (-0.120) 0.73ng/ul

response 5136

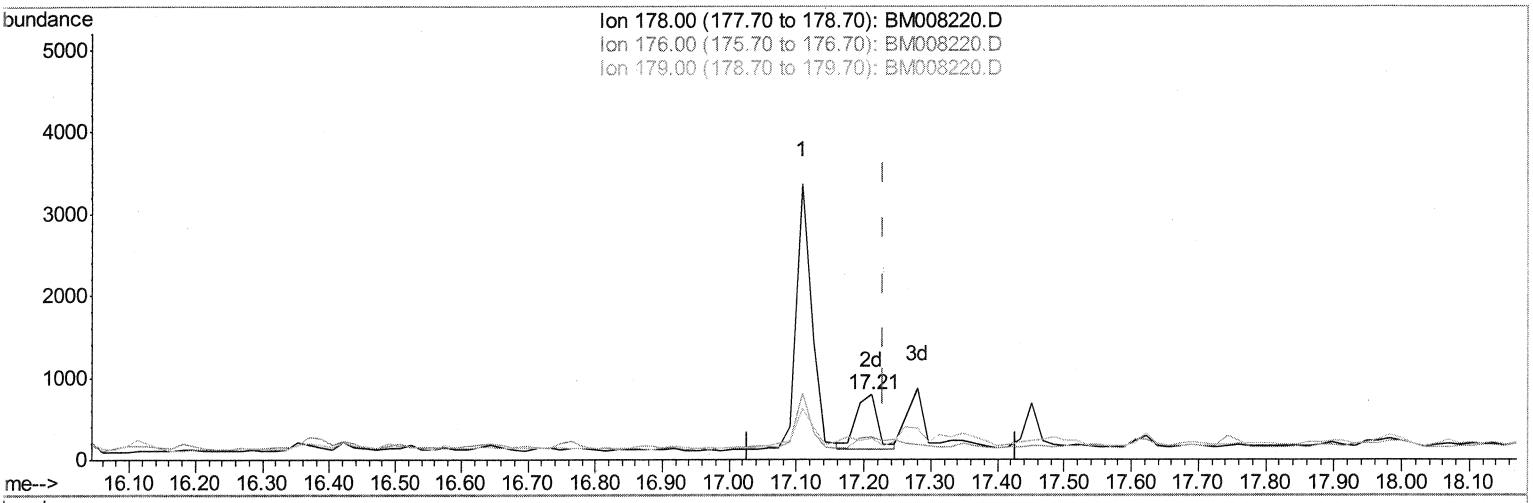
| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 22.60 | 24.30 |
| 179.00 | 18.40 | 18.77 |
| 0.00 | 0.00 | 0.00 |

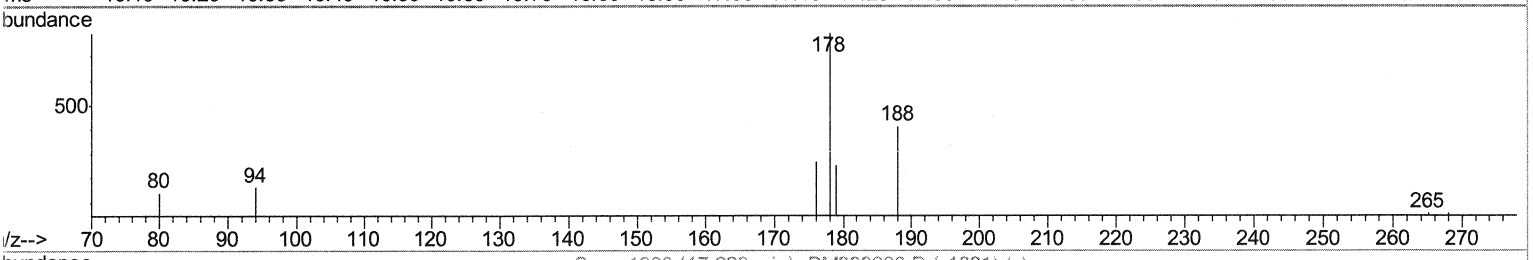
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

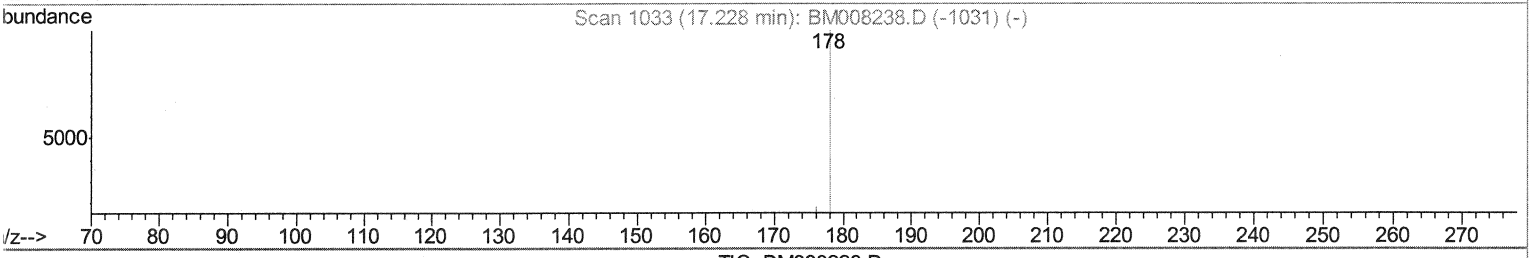
Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM




TIC: BM008220.D

(13) Anthracene

17.210min (-0.017) 0.21ng/ul m SJ 12/12/16

response 1475

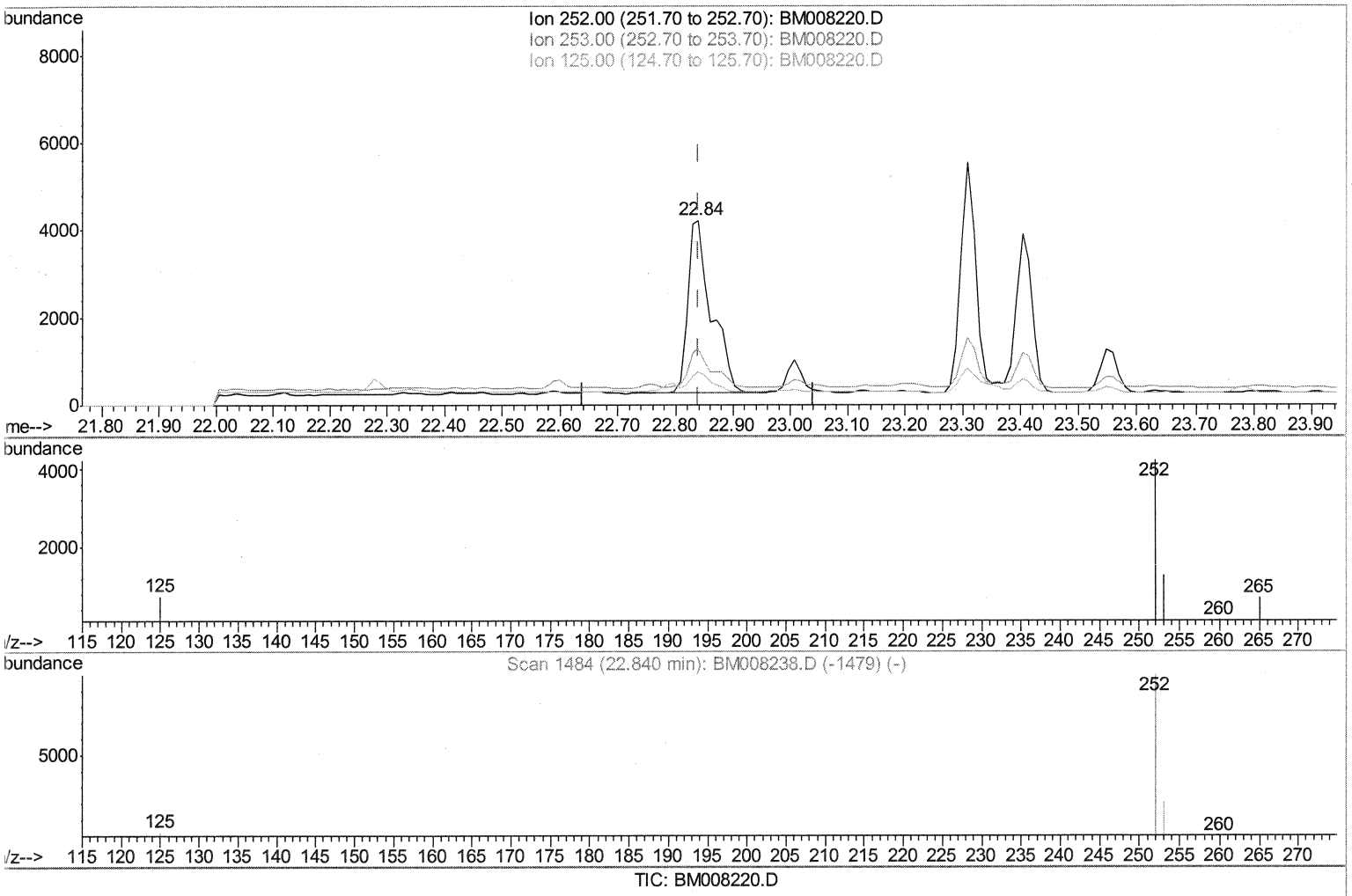
| Ion | Exp% | Act% |
|---|---|---|
| 178.00 | 100 | 100 |
| 176.00 | 22.60 | 33.75# |
| 179.00 | 18.40 | 31.99# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM




TIC: BM008220.D

(21) Benzo(b)fluoranthene

22.840min (-0.000) 1.46ng/ul

response 11120

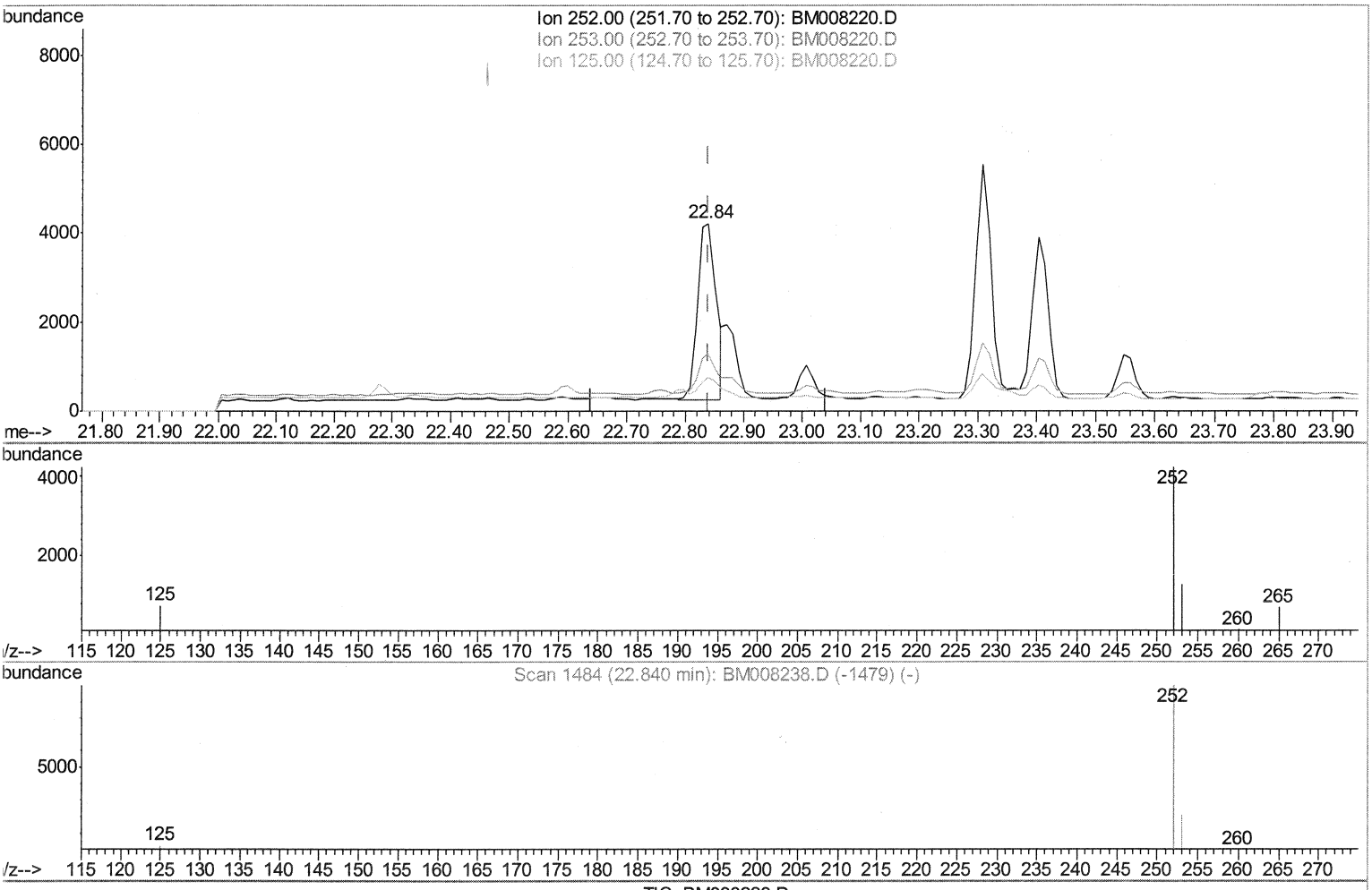
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 32.10 | 30.19 |
| 125.00 | 17.50 | 18.01 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM










TIC: BM008220.D

(21) Benzo(b)fluoranthene

22.840min (-0.000) 1.14ng/ul m SJ 12/12/16

response 8710

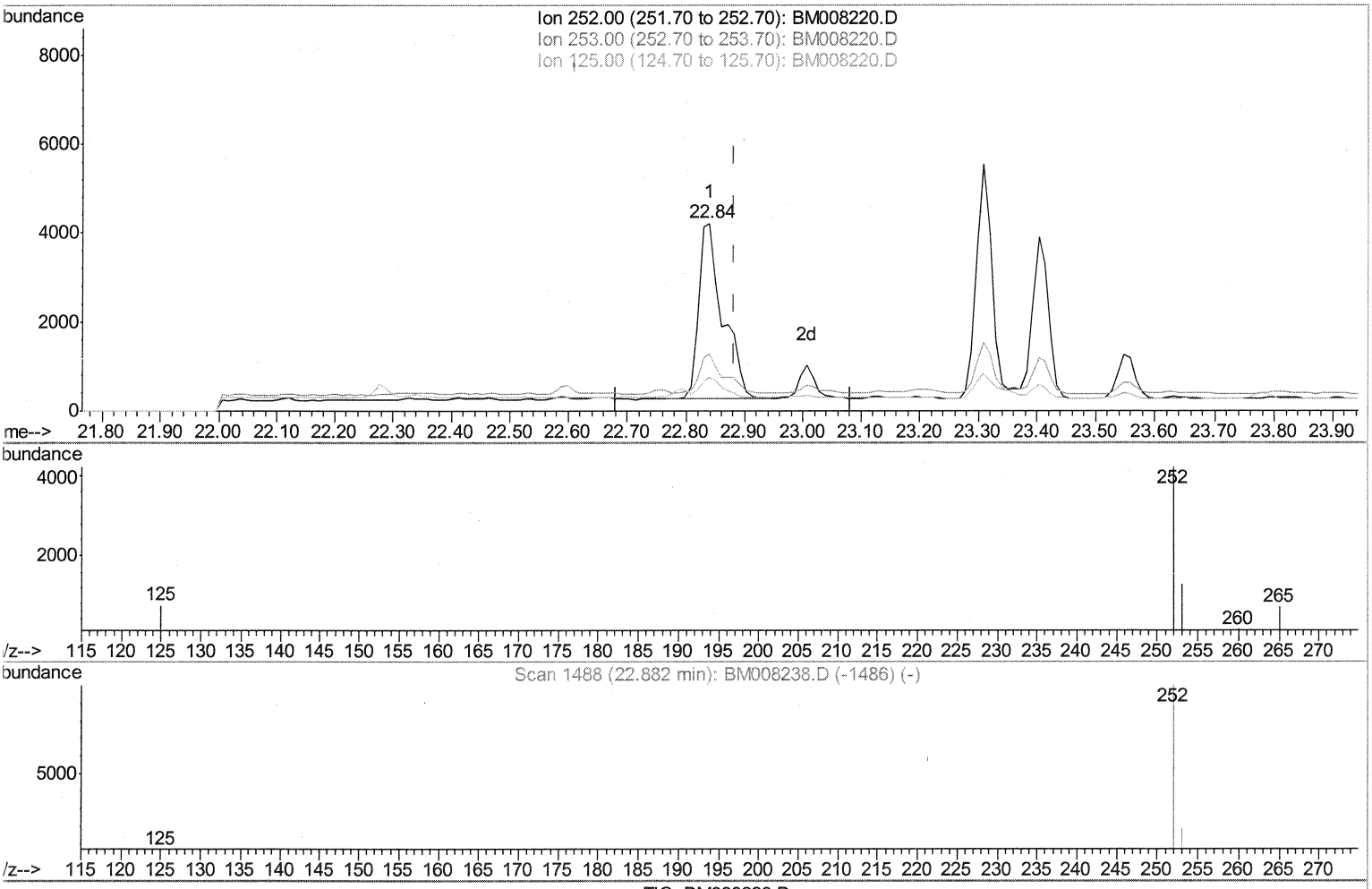
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 32.10 | 30.19 |
| 125.00 | 17.50 | 18.01 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM




TIC: BM008220.D

(22) Benzo(k)fluoranthene

22.840min (-0.042) 1.42ng/ul

response 11120

| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 30.60 | 30.19 |
| 125.00 | 17.10 | 18.01 |
| 0.00 | 0.00 | 0.00 |

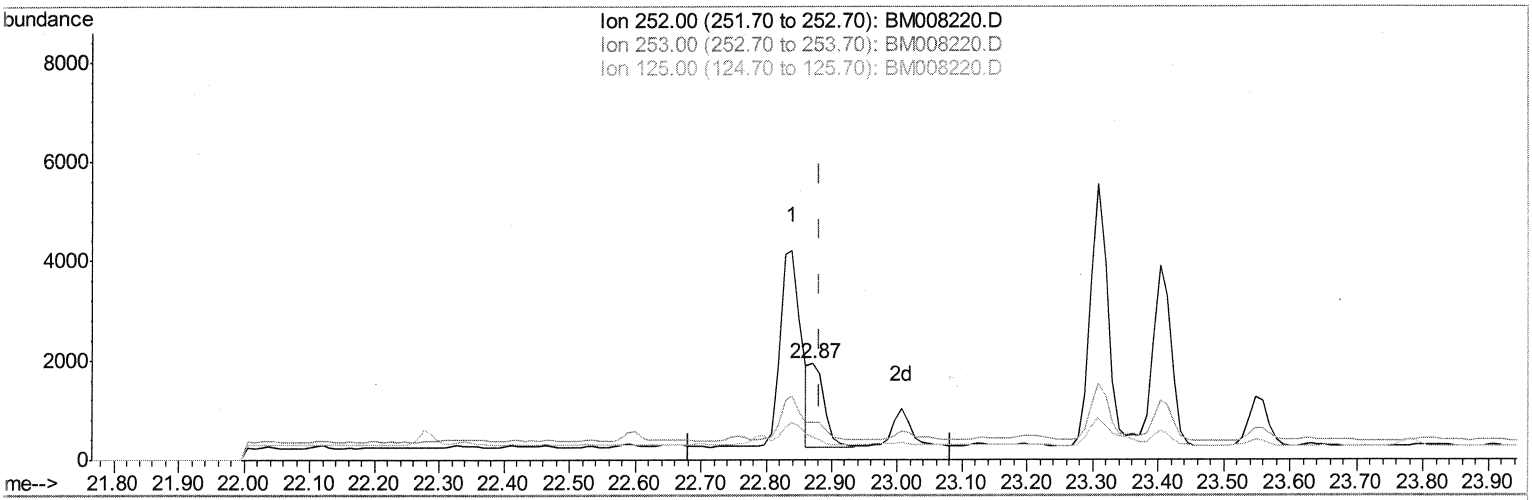
Quantitation Report (Qedit)

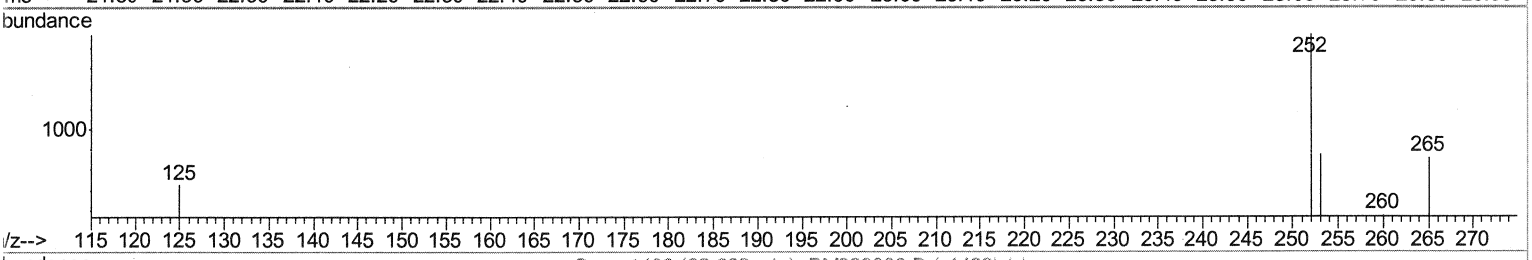
Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

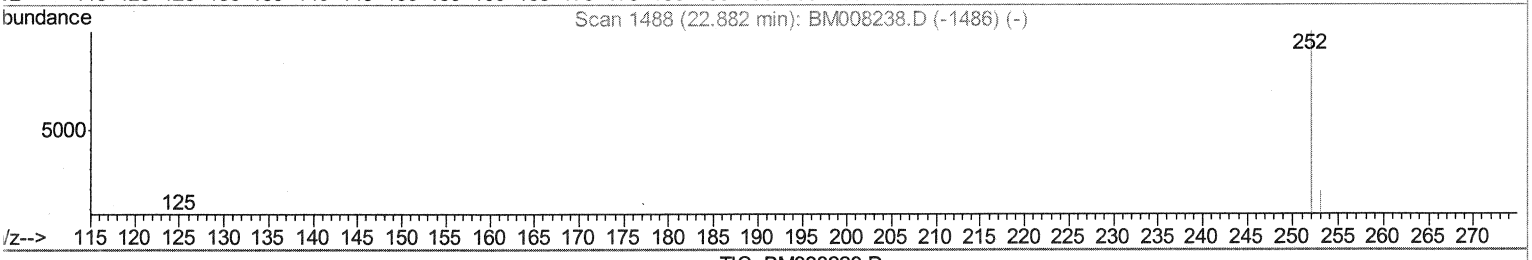
Quant Time: Dec 12 10:06:11 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM




TIC: BM008220.D

(22) Benzo(k)fluoranthene

22.871min (-0.011) 0.32ng/ul m SJ 12/12/16

response 2526

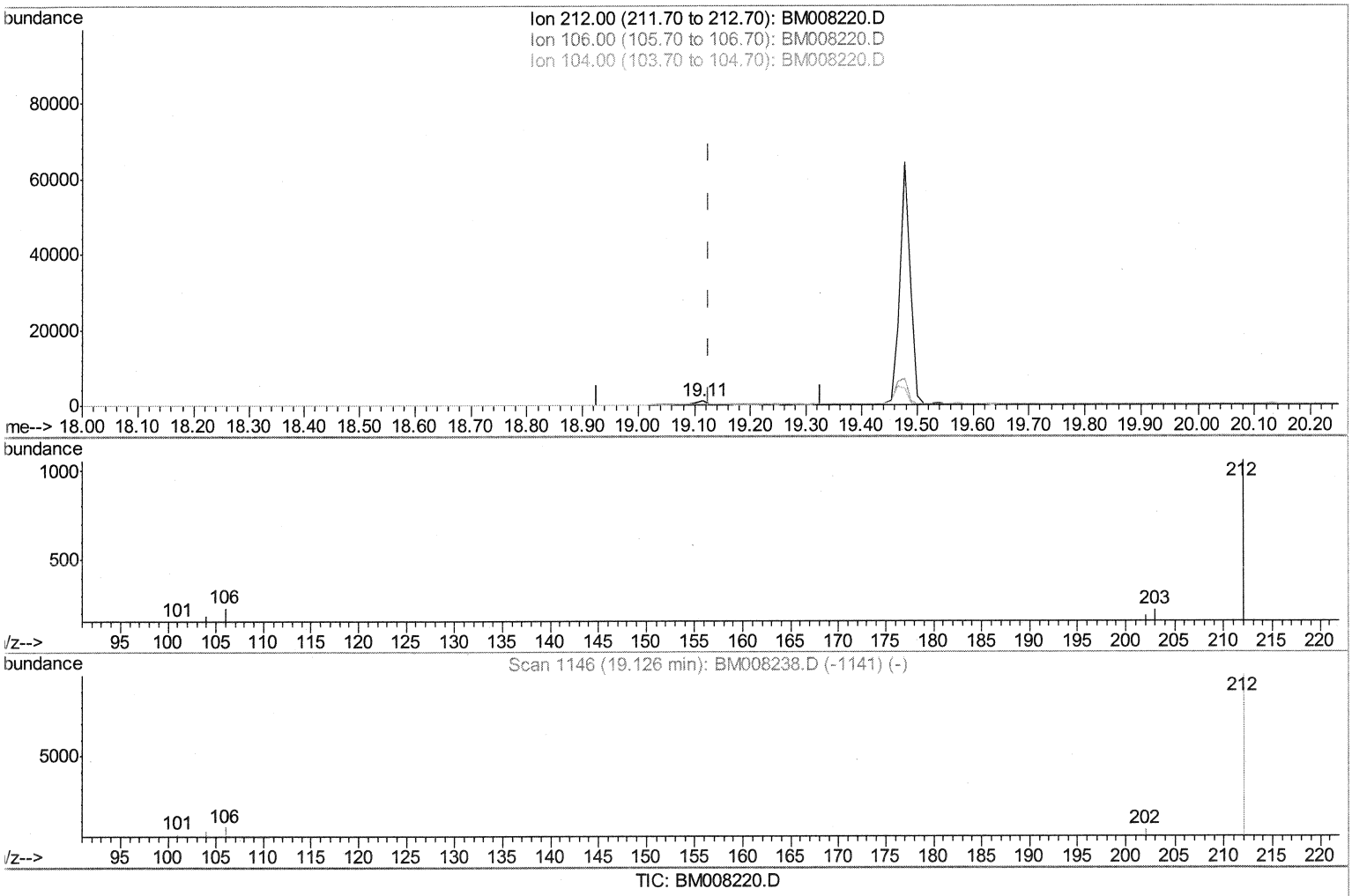
| Ion | Exp% | Act% |
|---|---|---|
| 252.00 | 100 | 100 |
| 253.00 | 30.60 | 38.95# |
| 125.00 | 17.10 | 23.45# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:10:12 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM



TIC: BM008220.D

(14) Fluoranthene-d10 (SURR)

19.113min (-0.012) 0.61ng/ul

response 4147

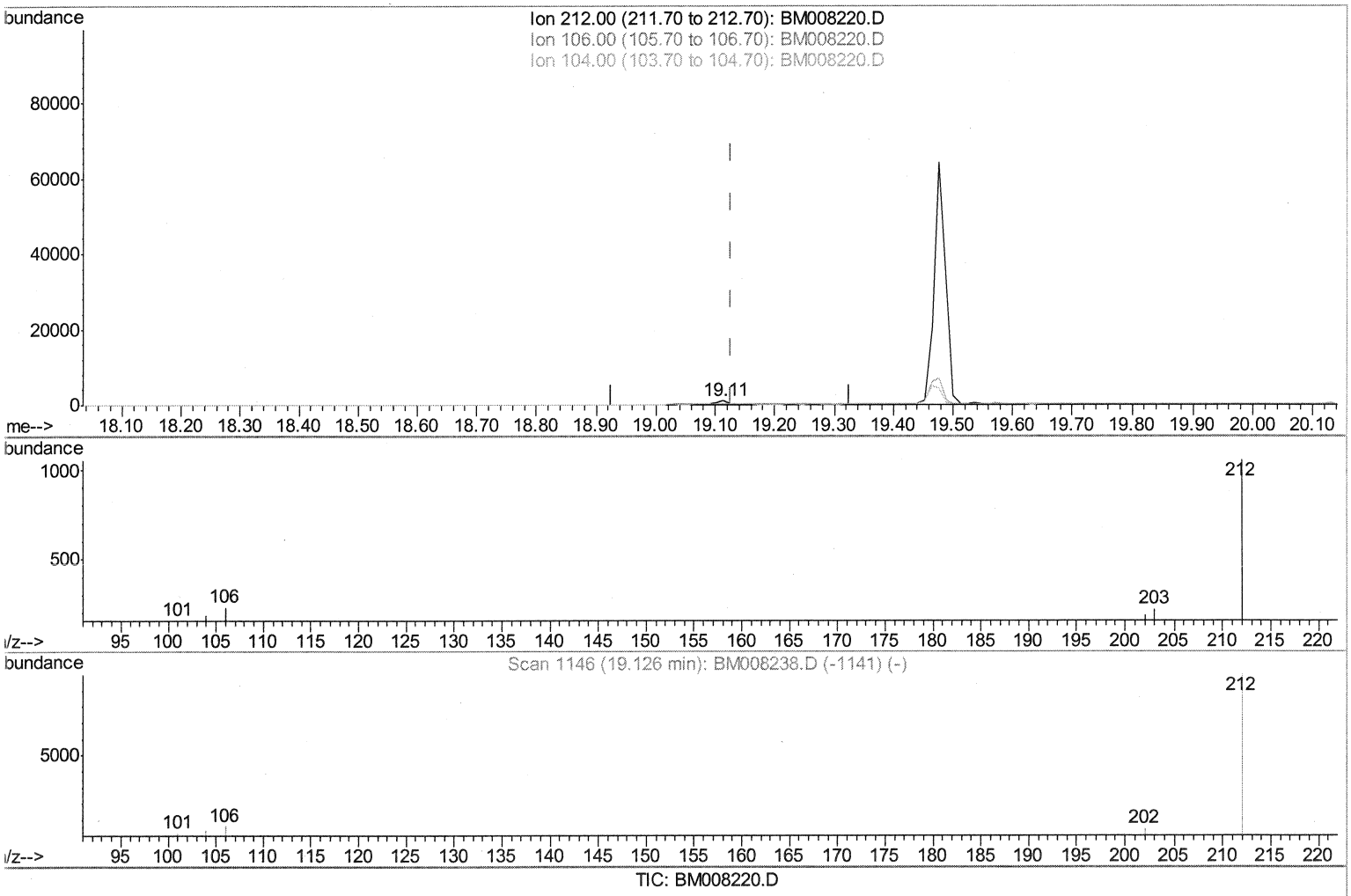
| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 18.30 | 20.54 |
| 104.00 | 15.60 | 57.44# |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:11:23 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :**
BNA_M
**ClientSampleId :**
DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM



TIC: BM008220.D

(14) Fluoranthene-d10 (SURR)

19.113min (-0.012) 0.17ng/ul m SJ 12/12/16

response 1171

| Ion | Exp% | Act% |
|---|---|---|
| 212.00 | 100 | 100 |
| 106.00 | 18.30 | 72.76# |
| 104.00 | 15.60 | 203.42# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM120916\
Data File : BM008220.D
Acq On : 10 Dec 2016 00:05
Operator : UM/SJ
Sample : H5863-20
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 12 10:11:23 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM112116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 12 03:51:49 2016
Response via : Initial Calibration

**Instrument :** BNA_M
**ClientSampleId :** DA800

**Manual Integrations APPROVED**
UMANGI
12/12/2016 6:49:34 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Dichlorobenzene-d4 | 7.70 | 152 | 514 | 0.40 | ng/ul | -0.02 |
| 2) Naphthalene-d8 | 10.46 | 136 | 1754 | 0.40 | ng/ul | -0.01 |
| 6) Acenaphthene-d10 | 14.31 | 164 | 1189 | 0.40 | ng/ul | -0.02 |
| 10) Phenanthrene-d10 | 17.07 | 188 | 2420 | 0.40 | ng/ul | -0.02 |
| 16) Chrysene-d12 | 21.28 | 240 | 2148 | 0.40 | ng/ul | -0.01 |
| 20) Perylene-d12 | 23.51 | 264 | 1908 | 0.40 | ng/ul | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 4) 2-Methylnaphthalene-d10 | 12.06 | 152 | 487 | 0.20 | ng/ul | -0.02 |
| 14) Fluoranthene-d10 | 19.11 | 212 | 1171m | 0.17 | ng/ul | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 3) Naphthalene | 10.51 | 128 | 3688 | 0.75 | ng/ul | 98 |
| 5) 2-Methylnaphthalene | 12.12 | 142 | 3477 | 1.10 | ng/ul | 99 |
| 7) Acenaphthylene | 14.04 | 152 | 1125 | 0.21 | ng/ul# | 65 |
| 8) Acenaphthene | 14.38 | 153 | 597 | 0.15 | ng/ul# | 87 |
| 9) Fluorene | 15.38 | 166 | 1302 | 0.28 | ng/ul# | 65 |
| 12) Phenanthrene | 17.11 | 178 | 5284 | 0.70 | ng/ul | 97 |
| 13) Anthracene | 17.21 | 178 | 1475m | 0.21 | ng/ul | |
| 15) Fluoranthene | 19.14 | 202 | 4984 | 0.51 | ng/ul | 93 |
| 17) Pyrene | 19.50 | 202 | 5591 | 0.75 | ng/ul | 95 |
| 18) Benzo(a)anthracene | 21.26 | 228 | 3613 | 0.55 | ng/ul# | 80 |
| 19) Chrysene | 21.31 | 228 | 4979 | 0.61 | ng/ul# | 90 |
| 21) Benzo(b)fluoranthene | 22.84 | 252 | 8710m | 1.14 | ng/ul | |
| 22) Benzo(k)fluoranthene | 22.87 | 252 | 2526m | 0.32 | ng/ul | |
| 23) Benzo(a)pyrene | 23.40 | 252 | 7229 | 1.01 | ng/ul# | 88 |
| 24) Indeno(1,2,3-cd)pyrene | 25.75 | 276 | 5853 | 0.66 | ng/ul# | 93 |
| 25) Dibenzo(a,h)anthracene | 25.75 | 278 | 2065 | 0.29 | ng/ul# | 60 |
| 26) Benzo(g,h,i)perylene | 26.44 | 276 | 9186 | 1.17 | ng/ul# | 93 |

SJ 12/12/16

SJ 12/12/16

} SJ 12/12/16

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