

Data Path : Z:\HPCHEM1\BNA M\DATA\BM070716\  
 Data File : BM006297.D  
 Acq On : 06 Jul 2016 23:52  
 Operator : UM/SJ  
 Sample : H3811-11  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TV9

## Manual Integrations

umangi  
 7/7/2016 6:05:34 PM

Quant Time: Jul 07 11:34:11 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 07 05:51:09 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.65  | 152  | 4991     | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.43 | 136  | 19978    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.30 | 164  | 11657    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.04 | 188  | 25024m   | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.23 | 240  | 15990    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.45 | 264  | 11754m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.17  | 96   | 9190     | 4.36   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.02 | 152  | 7704     | 0.33   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.08 | 212  | 16232    | 0.31   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 5) Naphthalene              | 10.48 | 128  | 2706     | 0.06   | ng/ul# | 88       |
| 7) 2-Methylnaphthalene      | 12.09 | 142  | 2422     | 0.08   | ng/ul  | 100      |
| 9) Acenaphthylene           | 14.01 | 152  | 5126     | 0.13   | ng/ul# | 93       |
| 11) Fluorene                | 15.34 | 166  | 1571     | 0.04   | ng/ul# | 73       |
| 14) Phenanthrene            | 17.07 | 178  | 41658m   | 0.60   | ng/ul  |          |
| 15) Anthracene              | 17.16 | 178  | 4279     | 0.07   | ng/ul# | 78       |
| 17) Fluoranthene            | 19.10 | 202  | 81066m   | 1.06   | ng/ul  |          |
| 19) Pyrene                  | 19.48 | 202  | 72083    | 1.08   | ng/ul# | 90       |
| 20) Benzo(a)anthracene      | 21.21 | 228  | 20403    | 0.39   | ng/ul# | 89       |
| 21) Chrysene                | 21.27 | 228  | 32842    | 0.65   | ng/ul# | 90       |
| 23) Benzo(b)fluoranthene    | 22.79 | 252  | 32126m   | 0.76   | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.81 | 252  | 11370m   | 0.29   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 23.35 | 252  | 20266m   | 0.52   | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 16141m   | 0.37   | ng/ul  |          |
| 27) Dibenzo(a,h)anthracene  | 25.66 | 278  | 4260m    | 0.13   | ng/ul  |          |
| 28) Benzo(a,h,i)perylene    | 26.34 | 276  | 15322m   | 0.42   | ng/ul  |          |

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

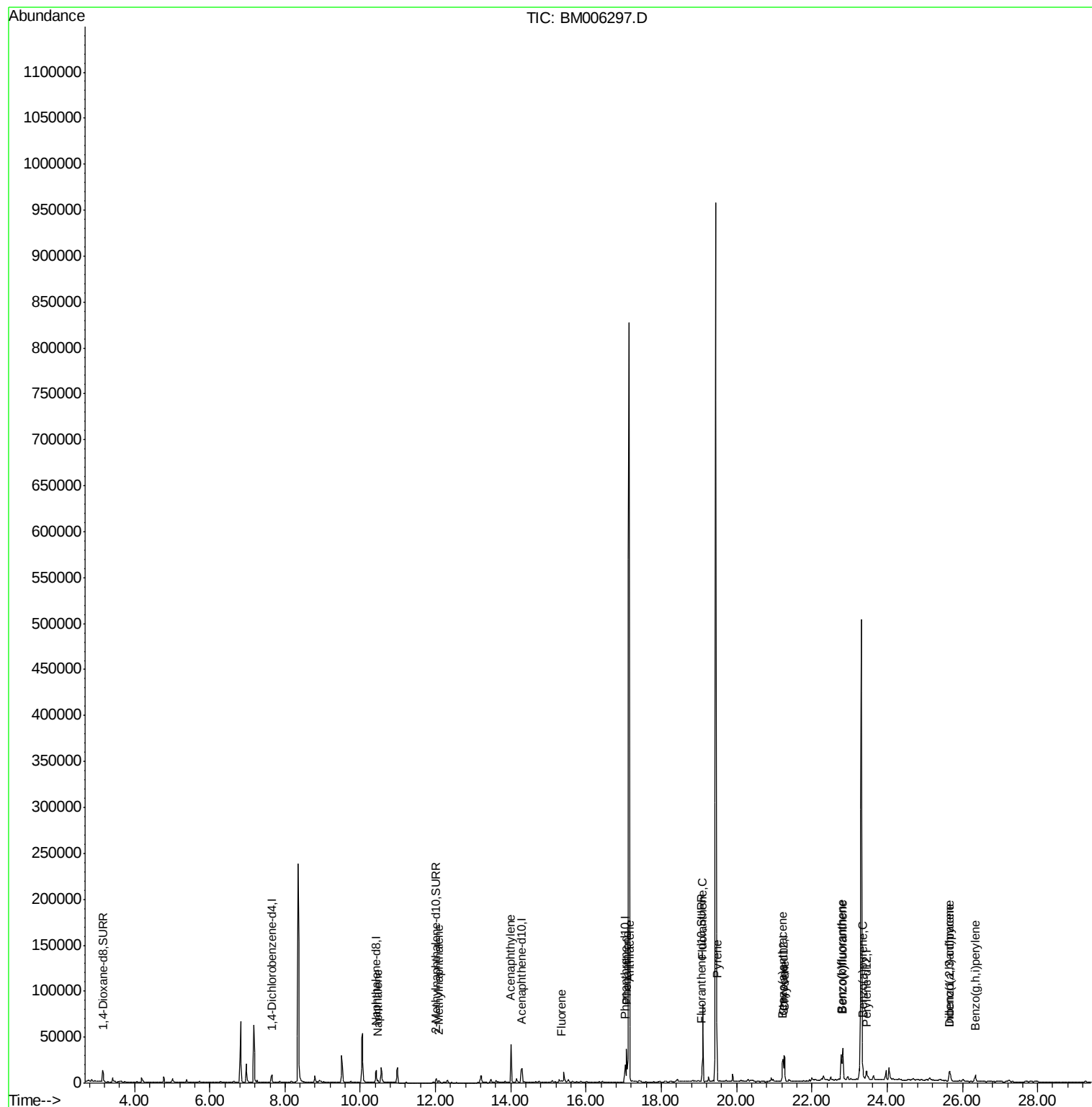
Data Path : Z:\HPCHEM1\BNA M\DATA\BM070716\  
Data File : BM006297.D  
Acq On : 06 Jul 2016 23:52  
Operator : UM/SJ  
Sample : H3811-11  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

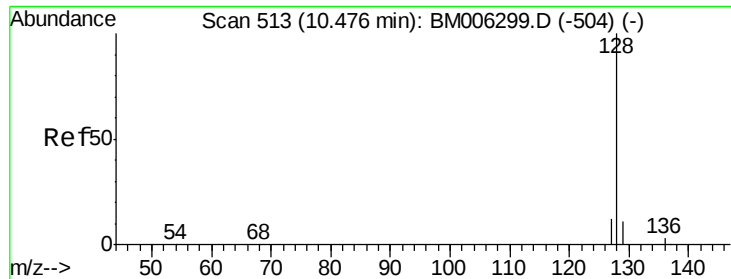
Instrument :  
BNA\_M  
ClientSampleId :  
A4TV9

## Manual Integrations

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7/7/2016 6:05:34 PM

Quant Time: Jul 07 11:34:11 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 07 05:51:09 2016  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.06 ng/ul

RT: 10.48 min Scan# 513

Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

Instrument :

BNA\_M

ClientSampleId :

A4TV9

Tot Ion:128 Resp: 2706

Ion Ratio Lower Upper

128 100

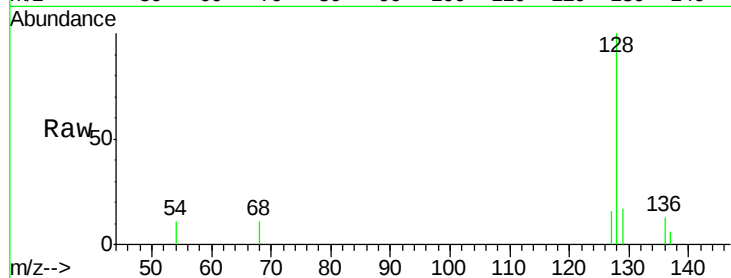
129 16.7 9.0 13.6#

127 15.8 9.6 14.4#

Manual Integrations

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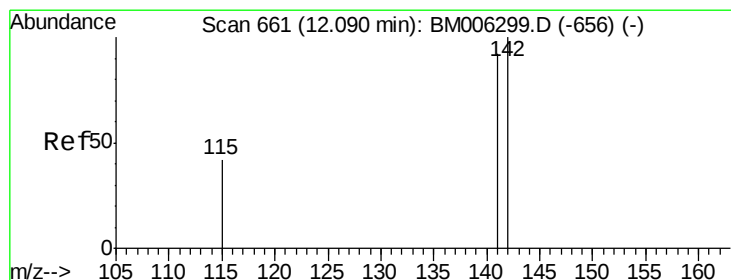
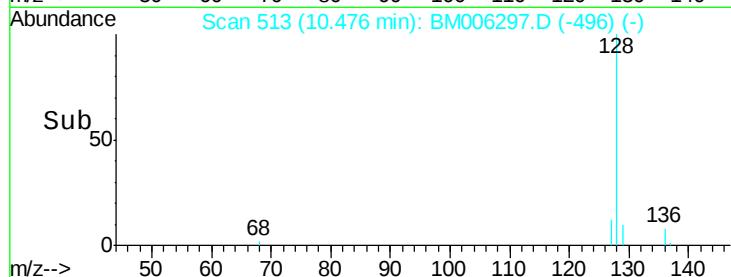
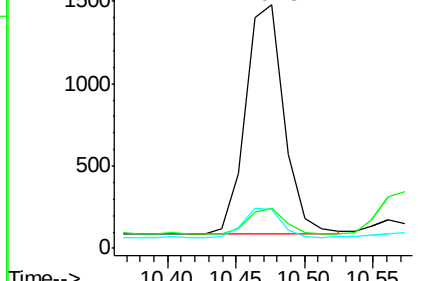
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.08 ng/ul

RT: 12.09 min Scan# 661

Delta R.T. 0.00 min

Lab File: BM006297.D

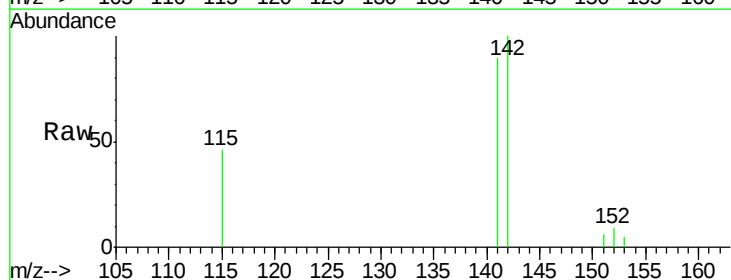
Acq: 06 Jul 2016 23:52

Tgt Ion:142 Resp: 2422

Ion Ratio Lower Upper

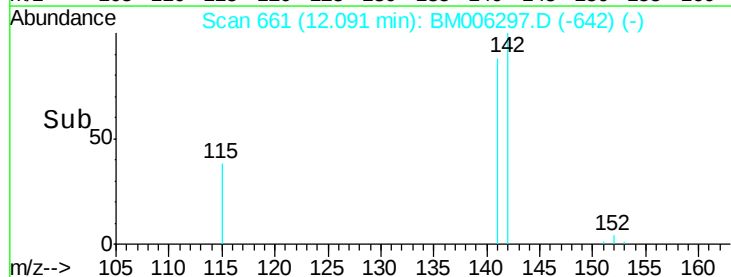
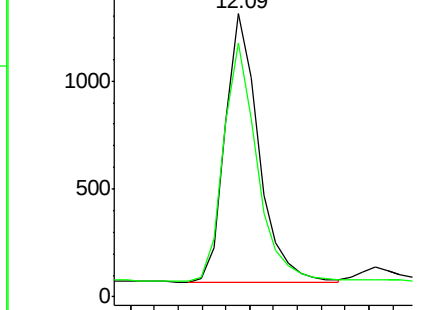
142 100

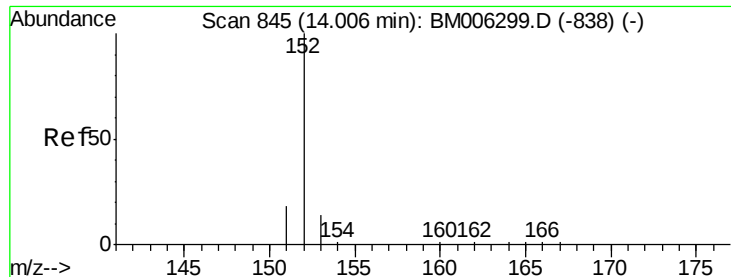
141 88.1 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.13 ng/ul

RT: 14.01 min Scan# 845

Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

Instrument :

BNA\_M

ClientSampleId :

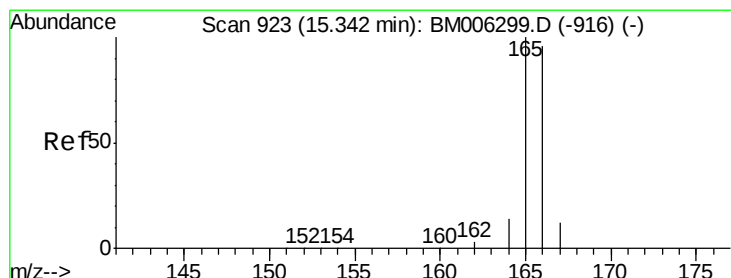
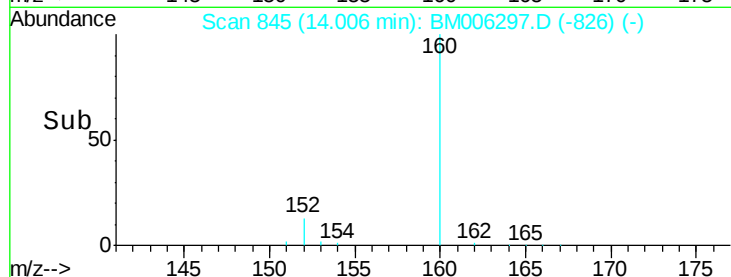
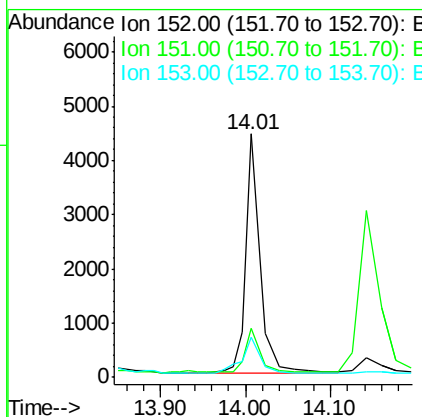
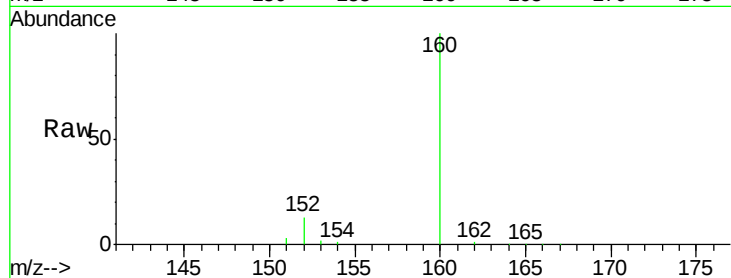
A4TV9

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 5126 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.0  | 17.6  | 26.4 |
| 153       | 16.3  | 9.7   | 14.5 |

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#11

Fluorene

Concen: 0.04 ng/ul

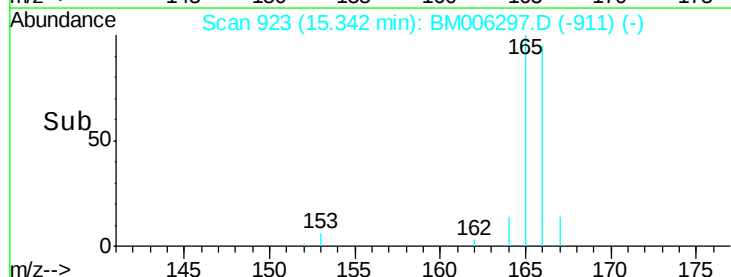
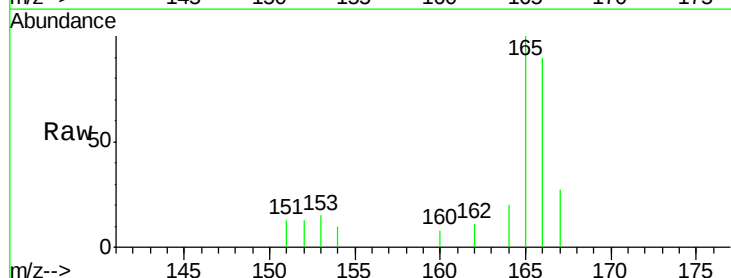
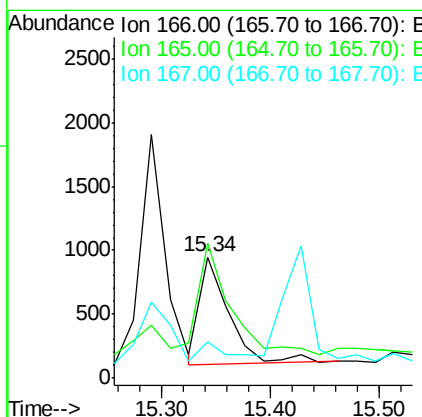
RT: 15.34 min Scan# 923

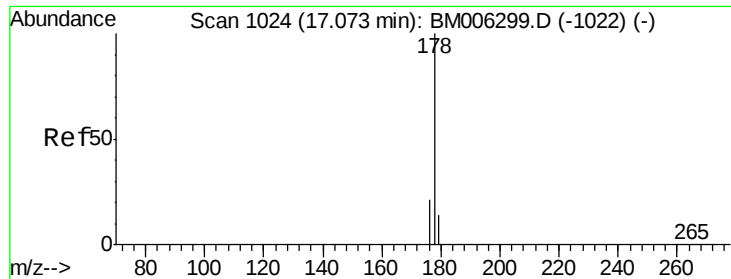
Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1571  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 110.6 | 69.6  | 104.4 |
| 167       | 29.5  | 11.9  | 17.9  |





#14

Phenanthrene

Concen: 0.60 ng/ul m

RT: 17.07 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

Instrument :

BNA\_M

ClientSampleId :

A4TV9

Tot Ion:178 Resp: 41658

Ion Ratio Lower Upper

178 100

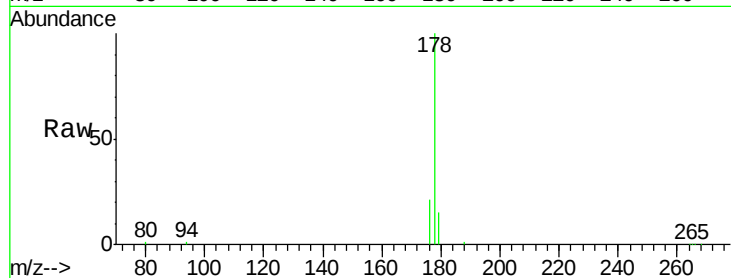
176 20.6 13.0 19.4#

179 14.9 14.2 21.2

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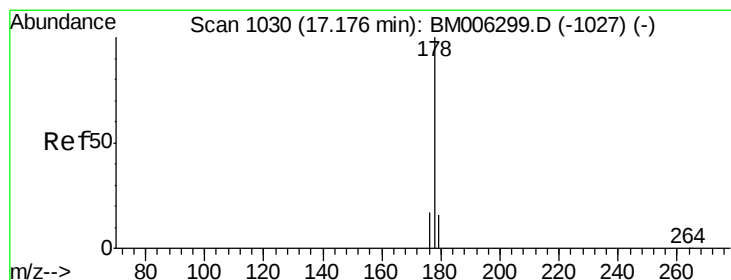
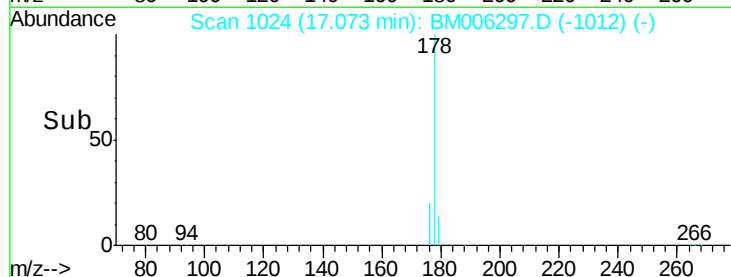
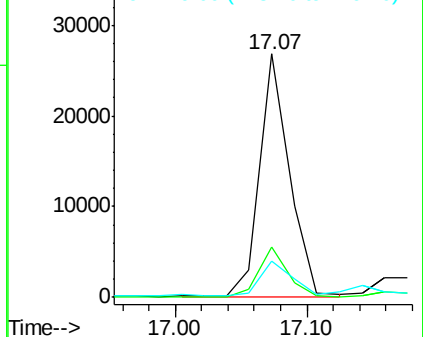
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#15

Anthracene

Concen: 0.07 ng/ul

RT: 17.16 min Scan# 1029

Delta R.T. -0.02 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

Tgt Ion:178 Resp: 4279

Ion Ratio Lower Upper

178 100

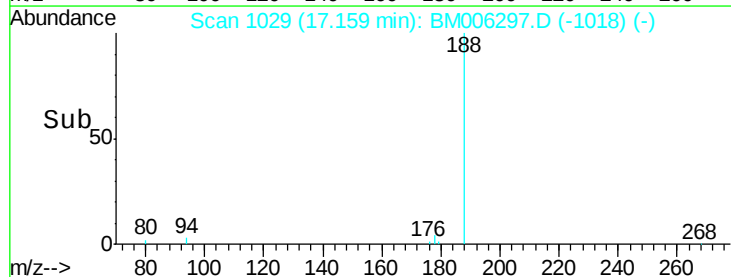
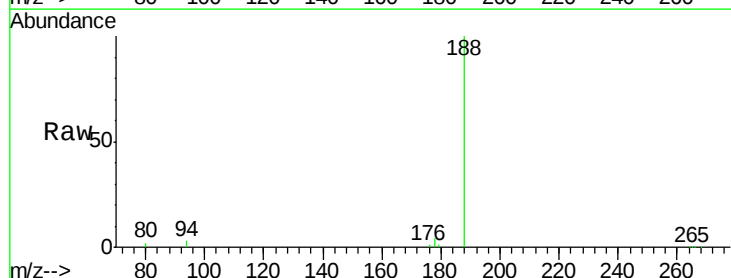
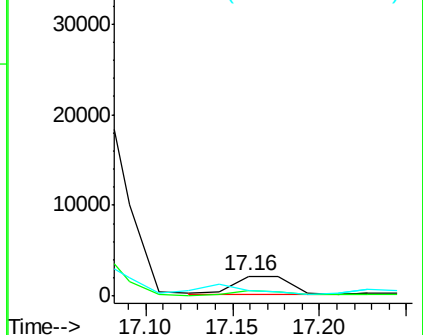
176 25.4 14.0 21.0#

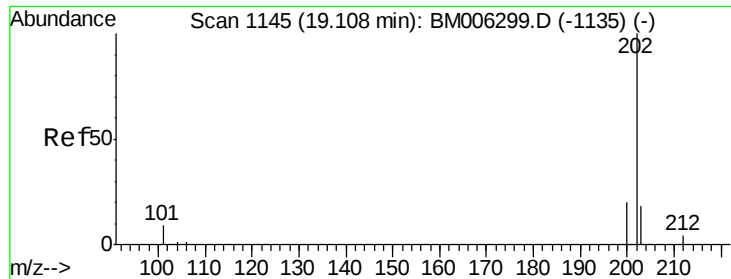
179 27.5 12.9 19.3#

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





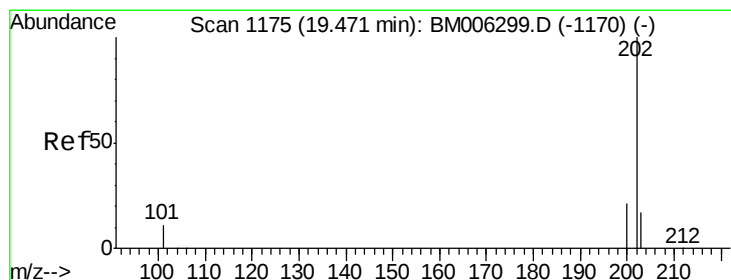
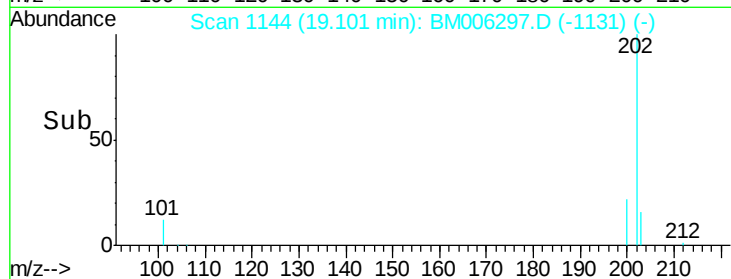
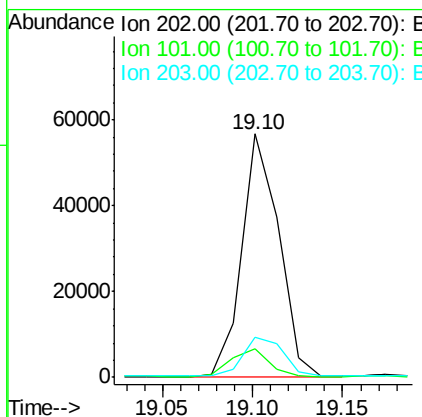
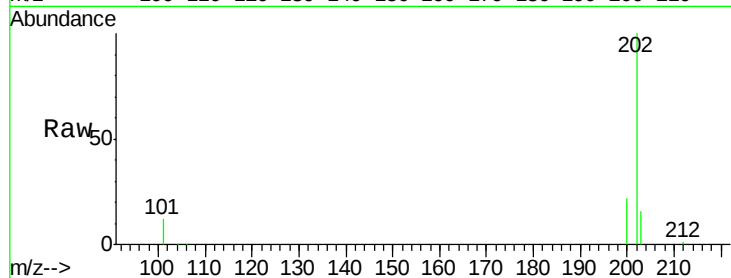
#17  
Fluoranthene  
Concen: 1.06 ng/ul m  
RT: 19.10 min Scan# 1144  
Delta R.T. -0.01 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV9

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 81066 |       |       |
| 101     | 11.8  |       | 0.0   | 29.6  |
| 203     | 16.5  |       | 0.0   | 36.3  |

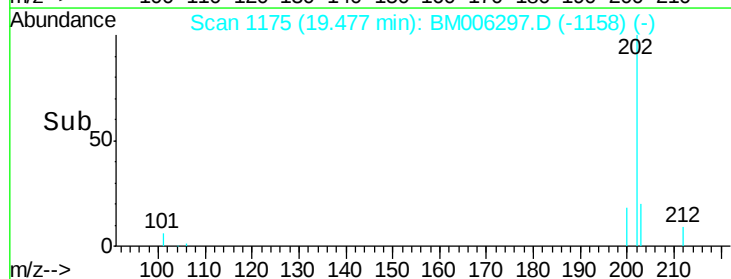
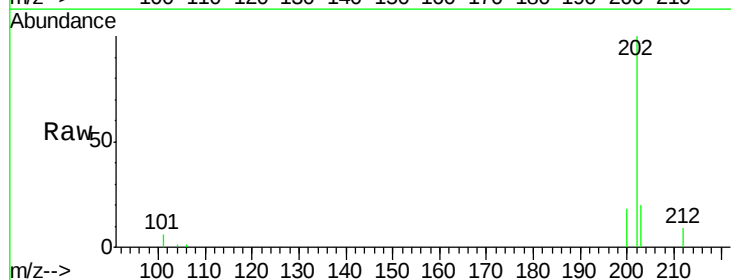
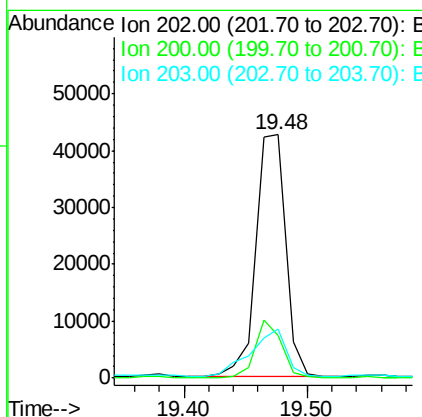
Manual Integrations

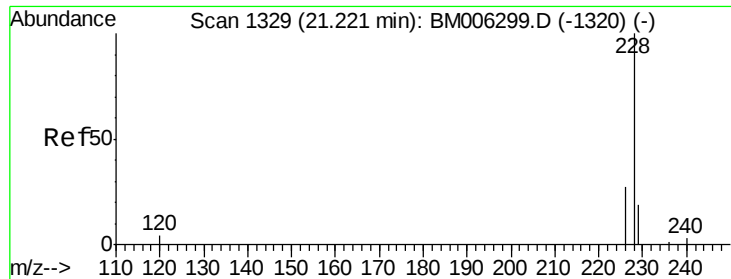
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#19  
Pyrene  
Concen: 1.08 ng/ul  
RT: 19.48 min Scan# 1175  
Delta R.T. 0.01 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 72083 |       |       |
| 200     | 17.8  |       | 17.8  | 26.8# |
| 203     | 20.2  |       | 12.8  | 19.2# |





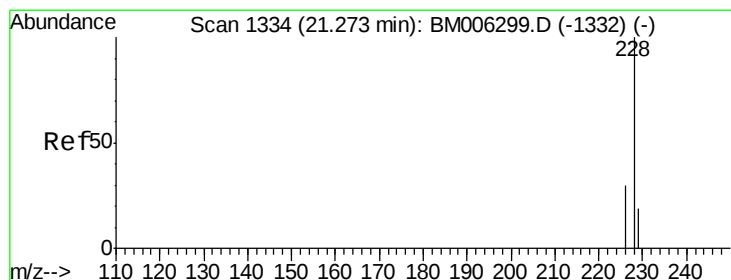
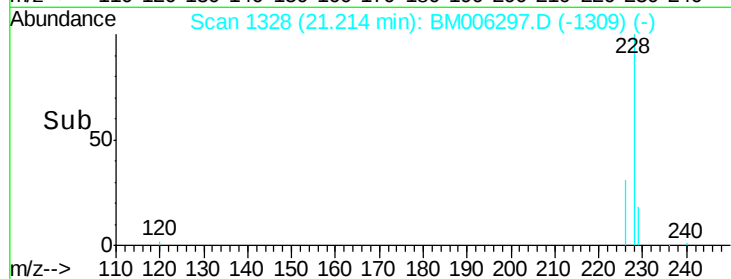
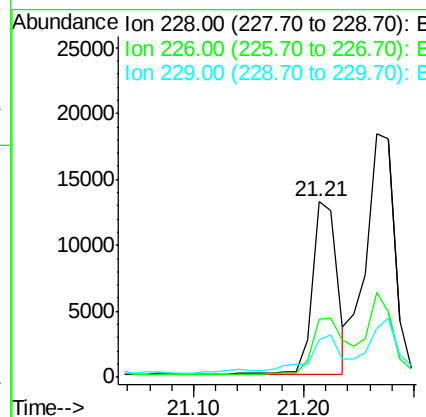
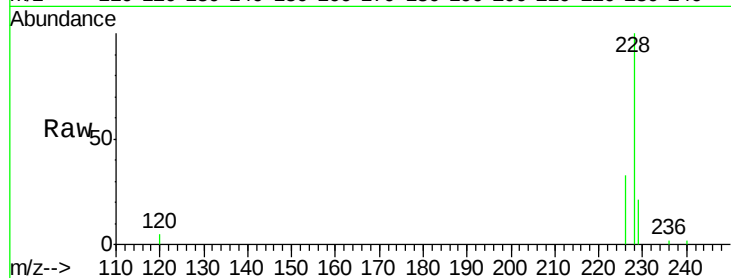
#20  
Benzo(a)anthracene  
Concen: 0.39 ng/ul  
RT: 21.21 min Scan# 1328  
Delta R.T. -0.01 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.4  | 18.8  | 28.2# |
| 229     | 21.1  | 17.1  | 25.7  |

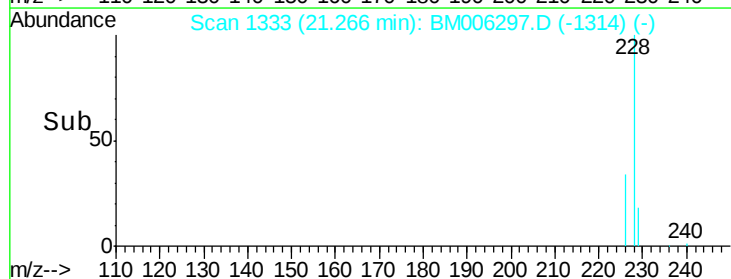
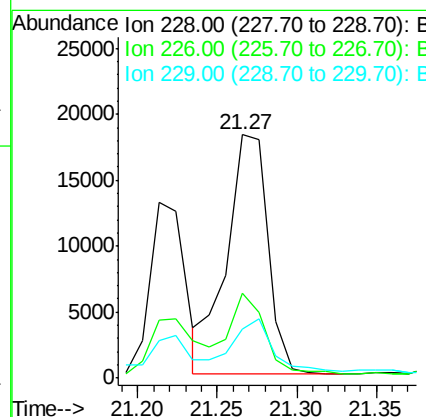
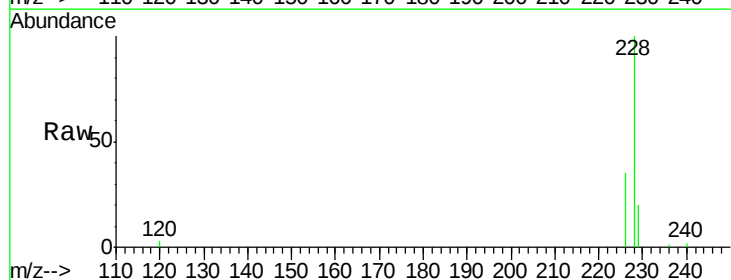
Manual Integrations

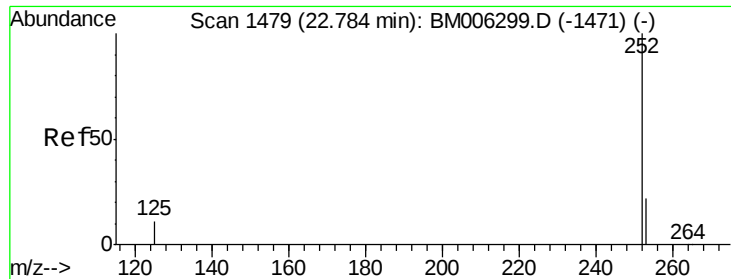
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#21  
Chrysene  
Concen: 0.65 ng/ul  
RT: 21.27 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 35.1  | 21.2  | 31.8# |
| 229     | 20.3  | 17.0  | 25.6  |





#23

Benzo(b)fluoranthene

Concen: 0.76 ng/ul m

RT: 22.79 min Scan# 1479

Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

Instrument :

BNA\_M

ClientSampleId :

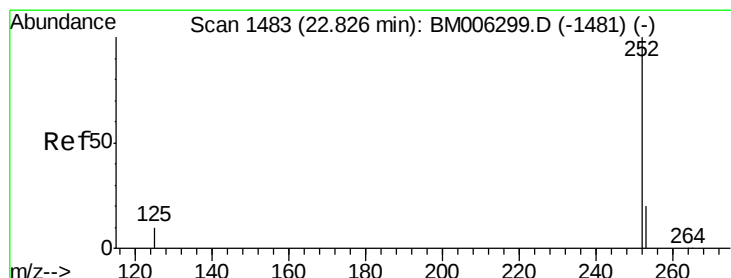
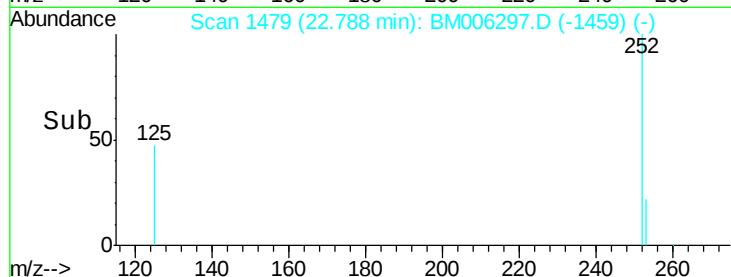
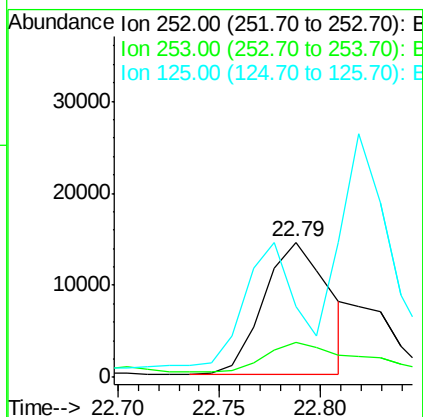
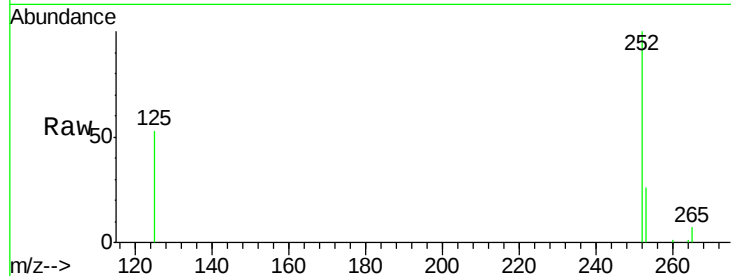
A4TV9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 0.0   | 45.4  |
| 125     | 52.5  | 0.0   | 28.8# |

Manual Integrations

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#24

Benzo(k)fluoranthene

Concen: 0.29 ng/ul m

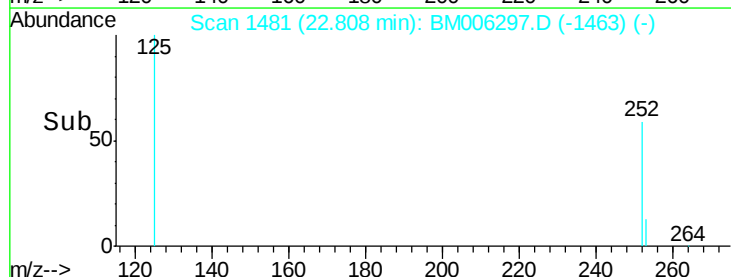
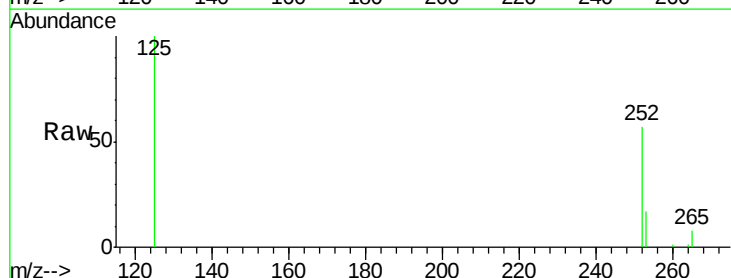
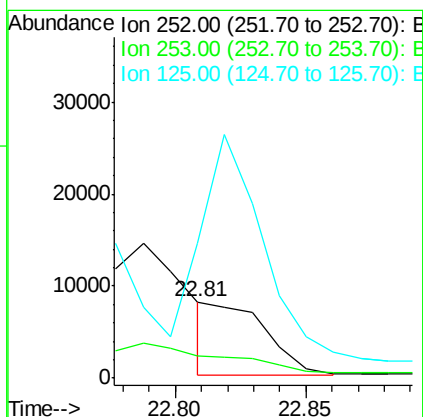
RT: 22.81 min Scan# 1481

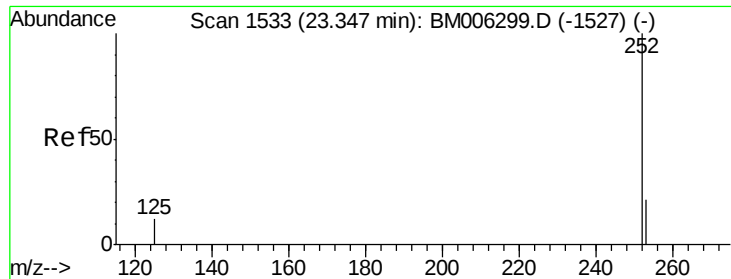
Delta R.T. -0.02 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.4  | 19.8  | 29.8  |
| 125     | 176.3 | 10.4  | 15.6# |





#25

Benzo(a)pyrene

Concen: 0.52 ng/ul m

RT: 23.35 min Scan# 1533

Delta R.T. 0.00 min

Lab File: BM006297.D

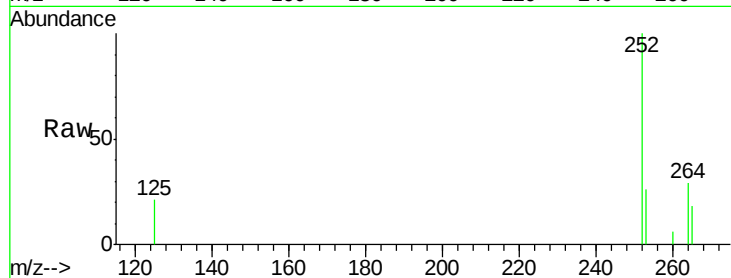
Acq: 06 Jul 2016 23:52

Instrument :

BNA\_M

ClientSampleId :

A4TV9

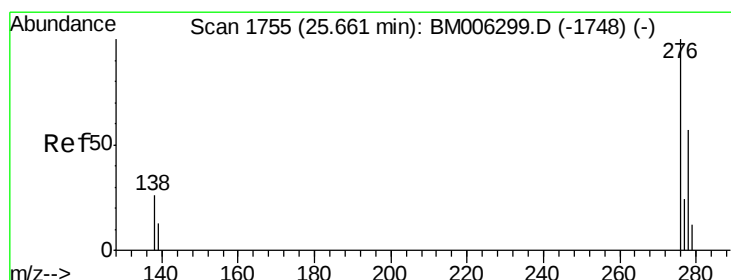
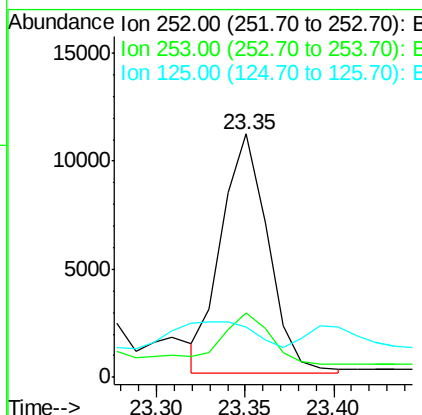
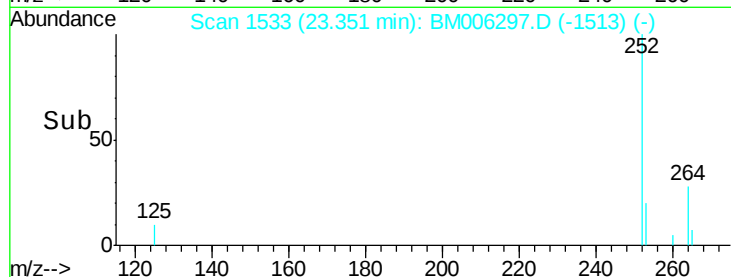


| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.3  | 19.4  | 29.2  |
| 125     | 20.5  | 12.7  | 19.1# |

Manual Integrations

umangi

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#26

Indeno(1,2,3-cd)pyrene

Concen: 0.37 ng/ul m

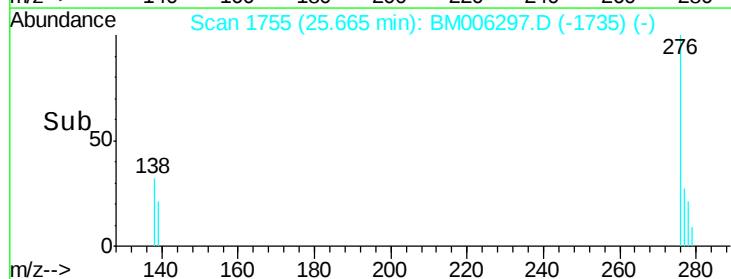
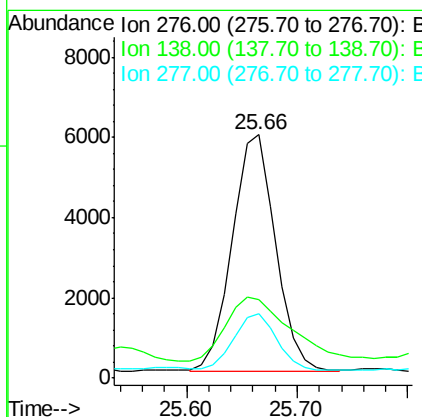
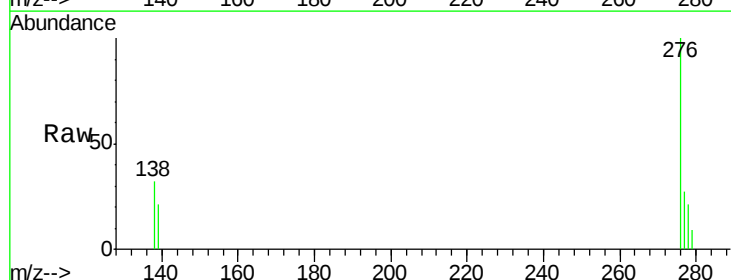
RT: 25.66 min Scan# 1755

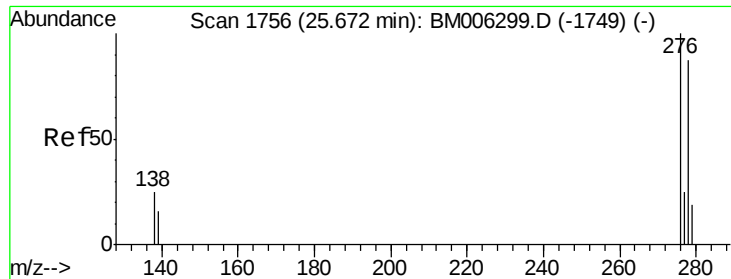
Delta R.T. 0.00 min

Lab File: BM006297.D

Acq: 06 Jul 2016 23:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 16.3  | 24.5# |
| 277     | 4.5   | 19.8  | 29.8# |





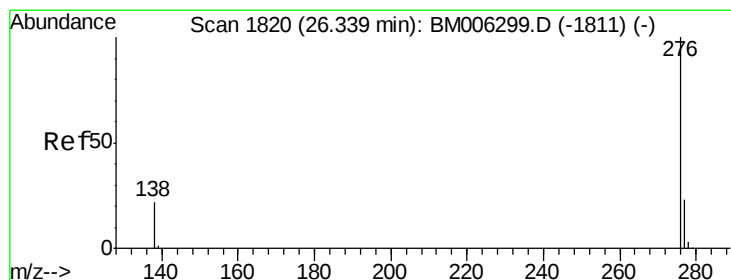
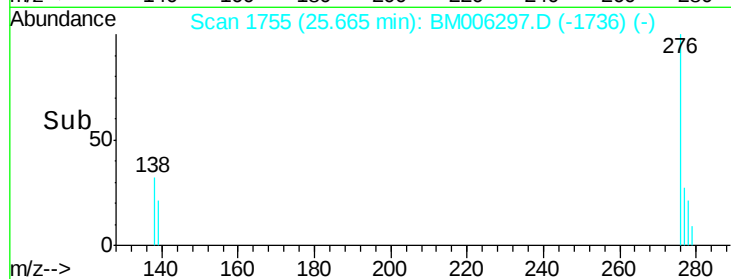
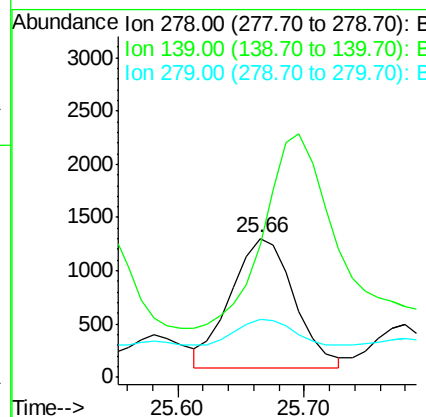
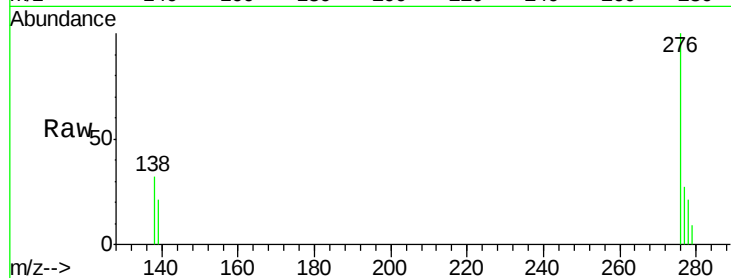
#27  
Dibenzo(a,h)anthracene  
Concen: 0.13 ng/ul m  
RT: 25.66 min Scan# 1755  
Delta R.T. -0.01 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

Instrument :  
BNA\_M  
ClientSampleId :  
A4TV9

Tot Ion:278 Resp: 4260  
Ion Ratio Lower Upper  
278 100  
139 95.7 16.4 24.6#  
279 41.6 20.2 30.2#

Manual Integrations

umangi  
7/7/2016 6:05:34 PM



#28  
Benzo(g,h,i)perylene  
Concen: 0.42 ng/ul m  
RT: 26.34 min Scan# 1820  
Delta R.T. 0.00 min  
Lab File: BM006297.D  
Acq: 06 Jul 2016 23:52

Tgt Ion:276 Resp: 15322  
Ion Ratio Lower Upper  
276 100  
277 26.2 18.9 28.3  
138 26.5 22.5 33.7

