

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070716\  
 Data File : BM006305.D  
 Acq On : 07 Jul 2016 05:17  
 Operator : UM/SJ  
 Sample : H3811-21  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TW9

Quant Time: Jul 07 05:52:20 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  | 5140     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.43 | 136  | 20686    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.30 | 164  | 12040    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.14 | 188  | 1456217  | 0.40 | ng/ul | 0.10     |
| 18) Chrysene-d12          | 21.24 | 240  | 18509    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.32 | 264  | 849232   | 0.40 | ng/ul | -0.14    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.17  | 96   | 10811    | 4.98 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.02 | 152  | 9204     | 0.38 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 19.08 | 212  | 20201    | 0.01 | ng/ul | 0.00     |

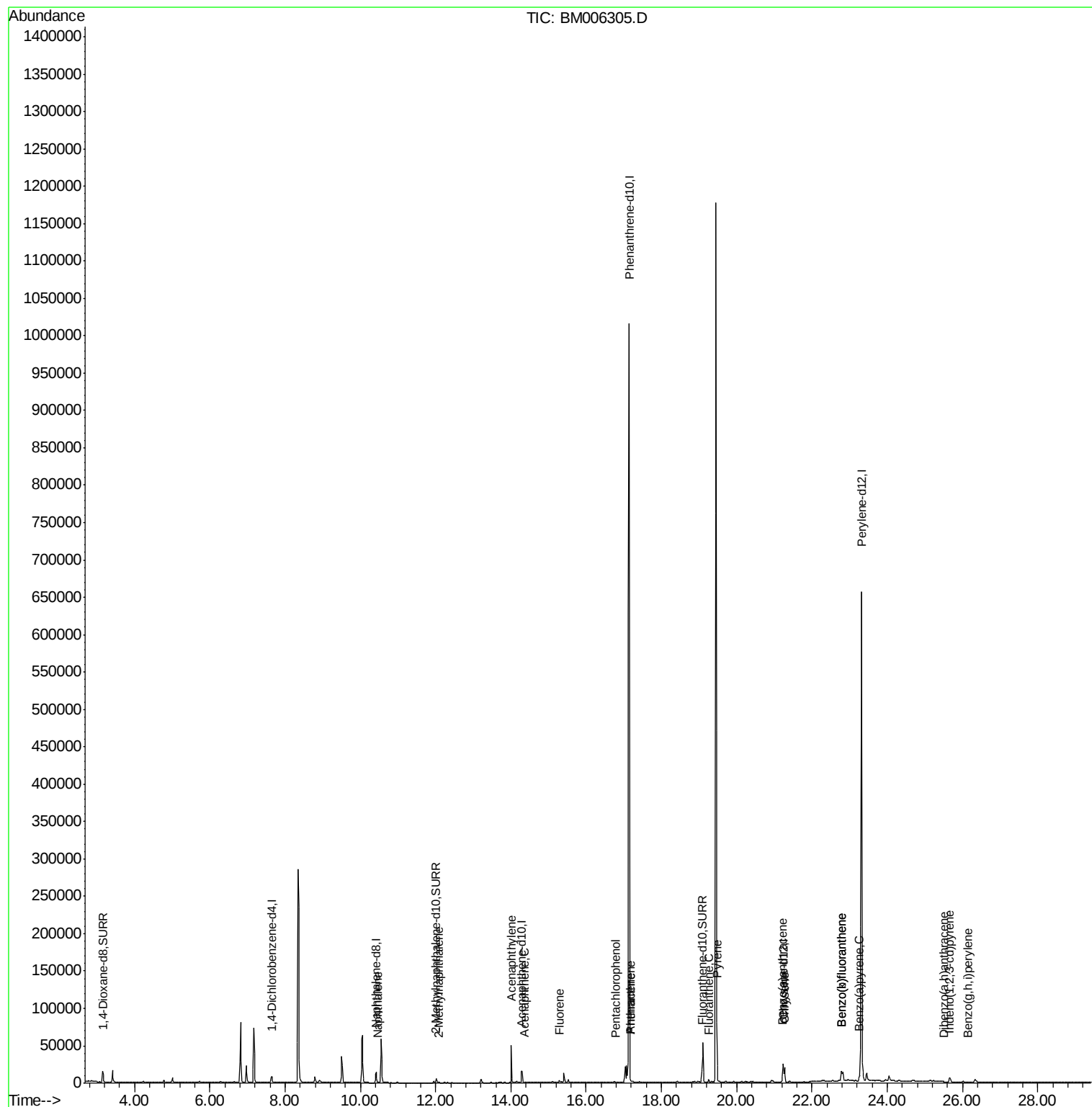
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 5) Naphthalene             | 10.48 | 128  | 916      | 0.02 | ng/ul# | 71     |
| 7) 2-Methylnaphthalene     | 12.09 | 142  | 397      | 0.01 | ng/ul  | 100    |
| 9) Acenaphthylene          | 14.01 | 152  | 3909     | 0.10 | ng/ul# | 94     |
| 10) Acenaphthene           | 14.35 | 153  | 472      | 0.01 | ng/ul# | 81     |
| 11) Fluorene               | 15.29 | 166  | 3119     | 0.07 | ng/ul# | 31     |
| 13) Pentachlorophenol      | 16.78 | 266  | 9        | 0.00 | ng/ul# | 20     |
| 14) Phenanthrene           | 17.18 | 178  | 3468     | 0.00 | ng/ul# | 85     |
| 15) Anthracene             | 17.18 | 178  | 3324     | 0.00 | ng/ul# | 85     |
| 17) Fluoranthene           | 19.25 | 202  | 3488     | 0.00 | ng/ul  | 71     |
| 19) Pyrene                 | 19.47 | 202  | 47751    | 0.62 | ng/ul  | 97     |
| 20) Benzo(a)anthracene     | 21.22 | 228  | 14258    | 0.24 | ng/ul# | 90     |
| 21) Chrysene               | 21.27 | 228  | 19067    | 0.32 | ng/ul  | 94     |
| 23) Benzo(b)fluoranthene   | 22.78 | 252  | 18790    | 0.01 | ng/ul# | 81     |
| 24) Benzo(k)fluoranthene   | 22.78 | 252  | 27776    | 0.01 | ng/ul# | 84     |
| 25) Benzo(a)pyrene         | 23.25 | 252  | 10876    | 0.00 | ng/ul# | 84     |
| 26) Indeno(1,2,3-cd)pyrene | 25.66 | 276  | 7207     | 0.00 | ng/ul  | 94     |
| 27) Dibenzo(a,h)anthracene | 25.50 | 278  | 533      | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 26.15 | 276  | 99       | 0.00 | ng/ul# | 1      |

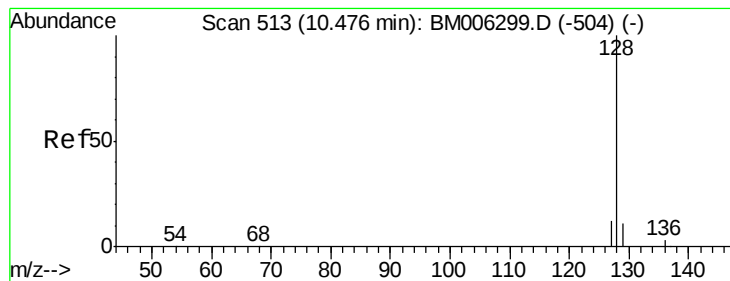
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 07 05:51:09 2016  
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#5

Naphthalene

Concen: 0.02 ng/ul

RT: 10.48 min Scan# 513

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

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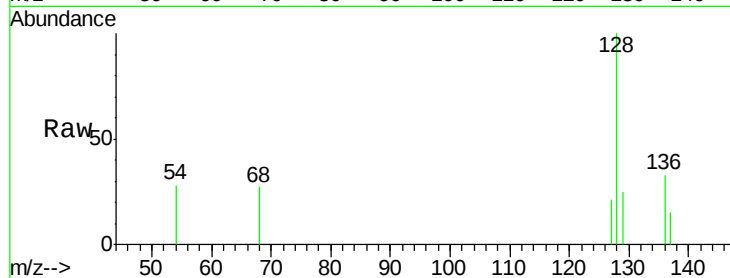
Tgt Ion:128 Resp: 916

Ion Ratio Lower Upper

128 100

129 24.8 9.0 13.6#

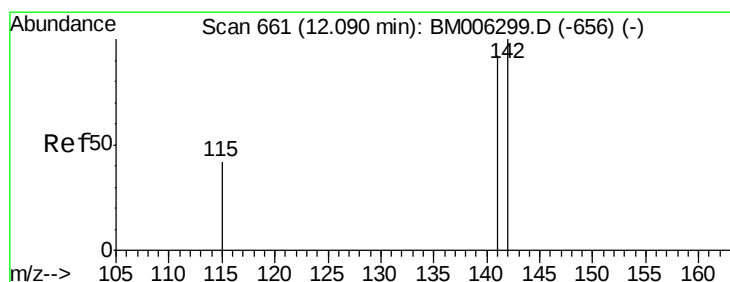
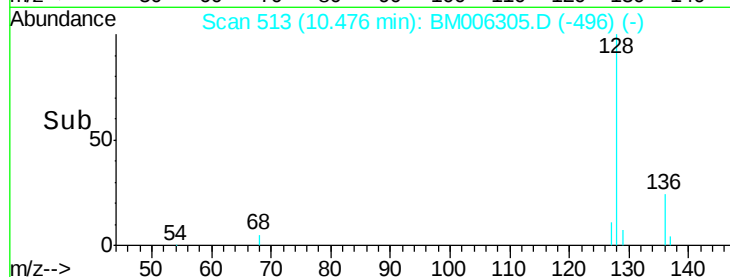
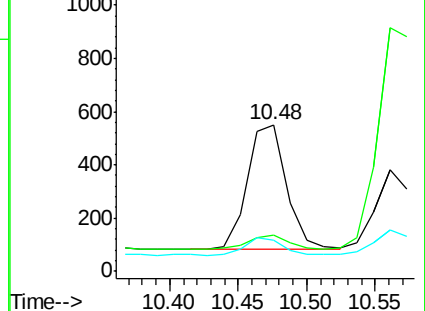
127 21.2 9.6 14.4#



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: 0.01 ng/ul

RT: 12.09 min Scan# 661

Delta R.T. 0.00 min

Lab File: BM006305.D

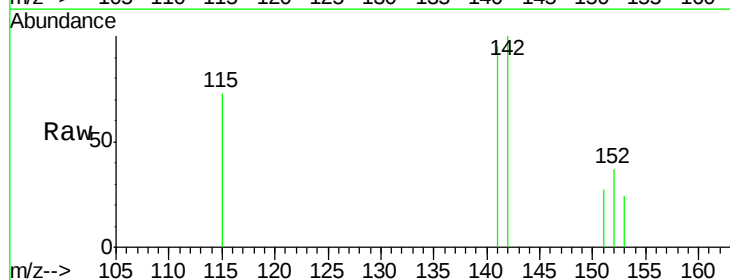
Acq: 07 Jul 2016 05:17

Tgt Ion:142 Resp: 397

Ion Ratio Lower Upper

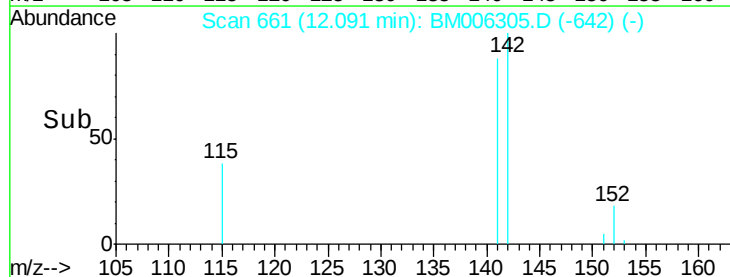
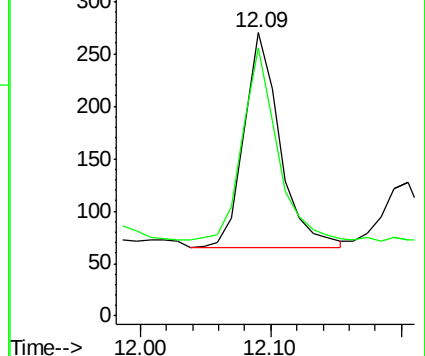
142 100

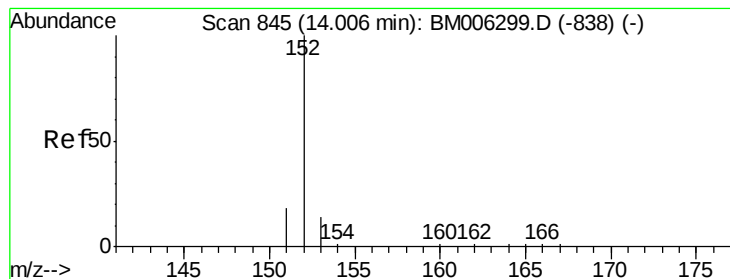
141 87.9 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.10 ng/ul

RT: 14.01 min Scan# 845

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

A4TW9

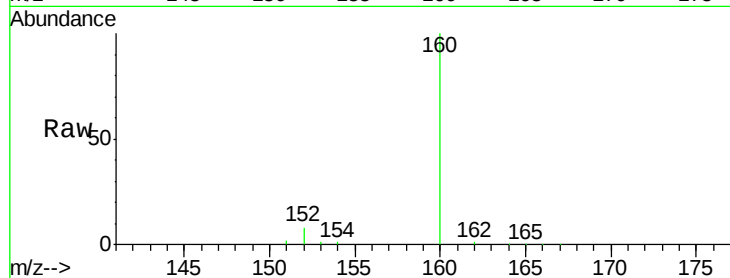
Tgt Ion:152 Resp: 3909

Ion Ratio Lower Upper

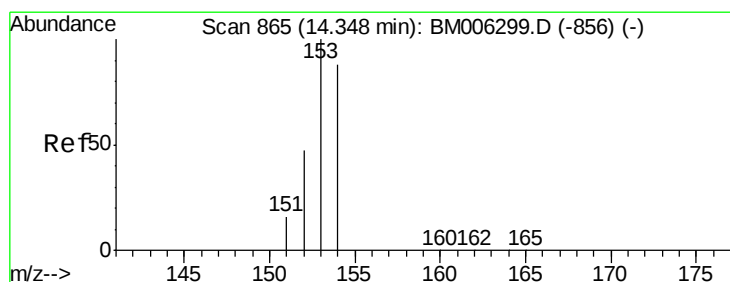
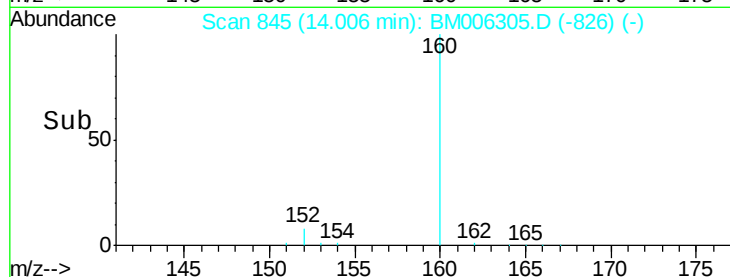
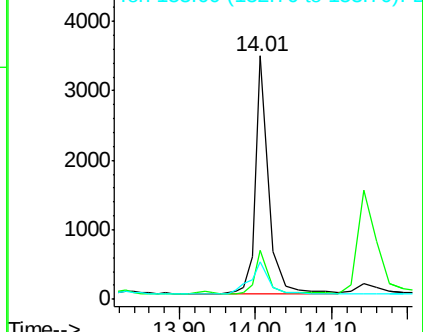
152 100

151 20.0 17.6 26.4

153 15.6 9.7 14.5#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.01 ng/ul

RT: 14.35 min Scan# 865

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

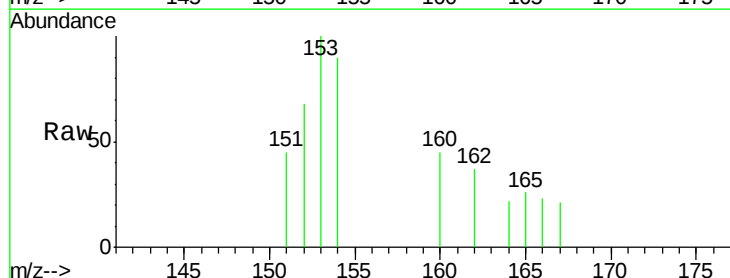
Tgt Ion:153 Resp: 472

Ion Ratio Lower Upper

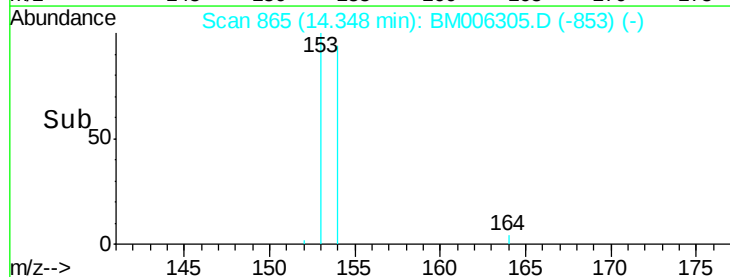
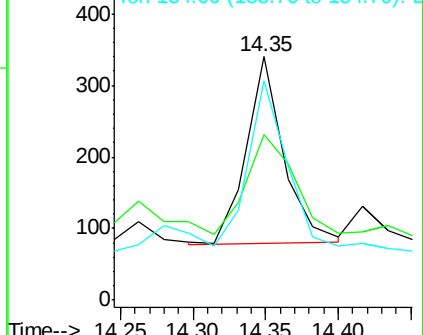
153 100

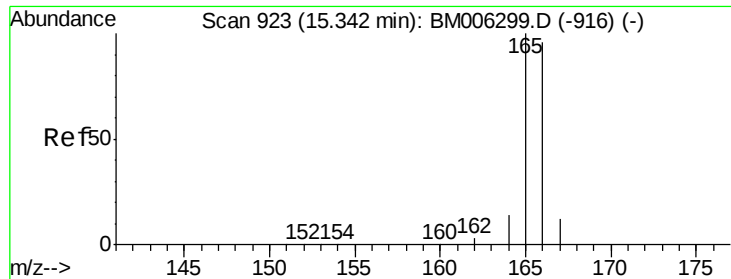
152 67.9 33.9 50.9#

154 90.0 80.6 121.0



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E

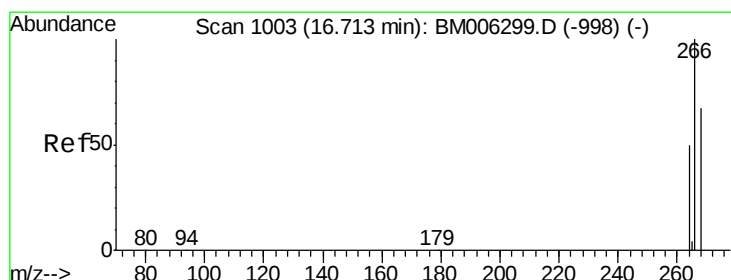
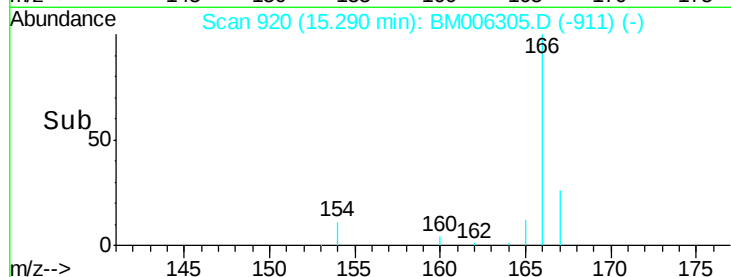
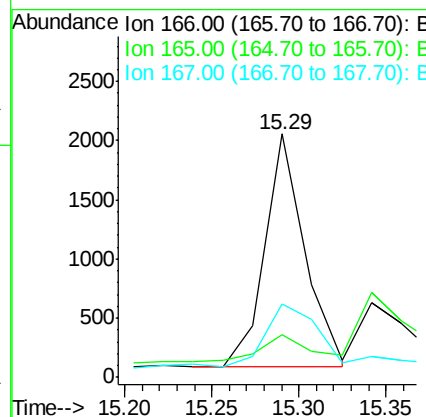
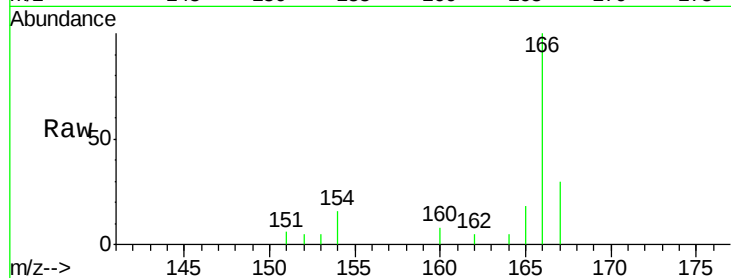




#11  
 Fluorene  
 Concen: 0.07 ng/ul  
 RT: 15.29 min Scan# 920  
 Delta R.T. -0.05 min  
 Lab File: BM006305.D  
 Acq: 07 Jul 2016 05:17

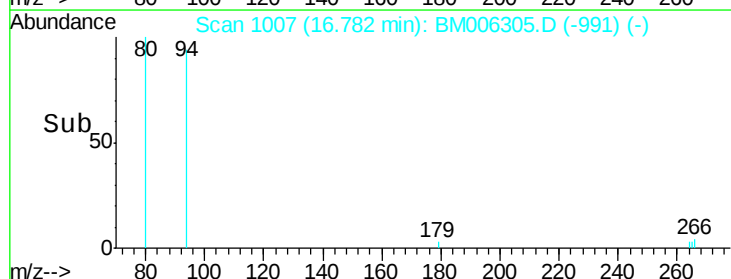
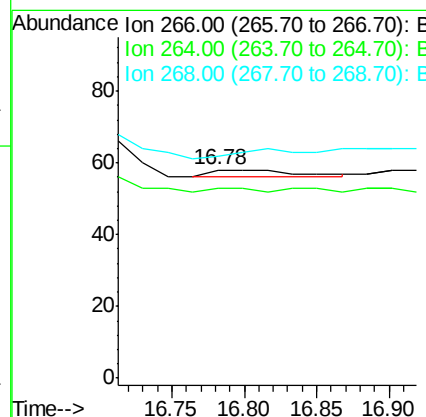
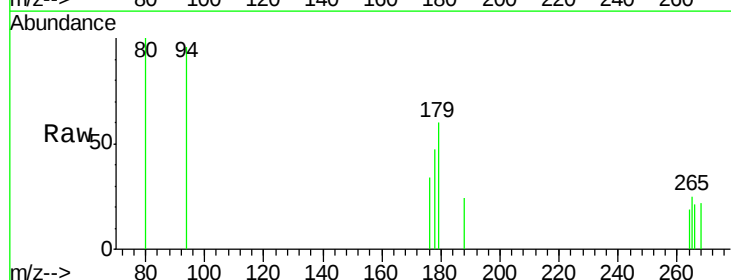
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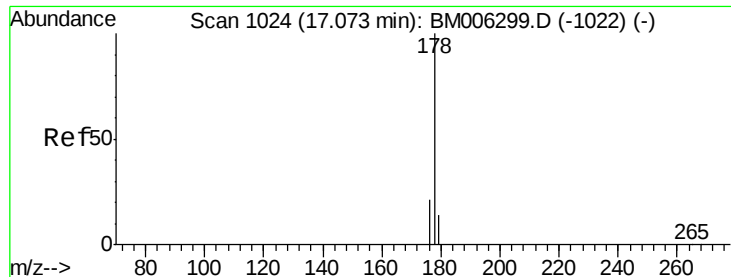
Tgt Ion:166 Resp: 3119  
 Ion Ratio Lower Upper  
 166 100  
 165 17.6 69.6 104.4#  
 167 30.1 11.9 17.9#



#13  
 Pentachlorophenol  
 Concen: 0.00 ng/ul  
 RT: 16.78 min Scan# 1007  
 Delta R.T. 0.07 min  
 Lab File: BM006305.D  
 Acq: 07 Jul 2016 05:17

Tgt Ion:266 Resp: 9  
 Ion Ratio Lower Upper  
 266 100  
 264 0.0 51.8 77.8#  
 268 0.0 46.8 70.2#





#14

Phenanthrene

Concen: 0.00 ng/ul

RT: 17.18 min Scan# 1030

Delta R.T. 0.10 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

A4TW9

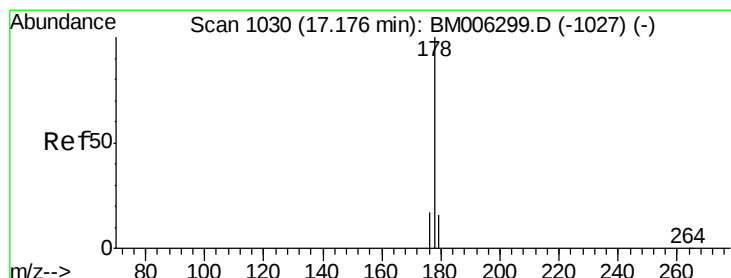
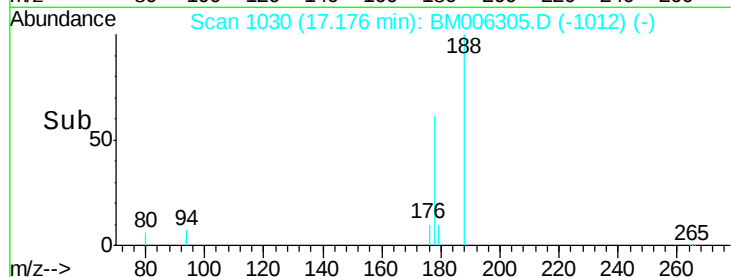
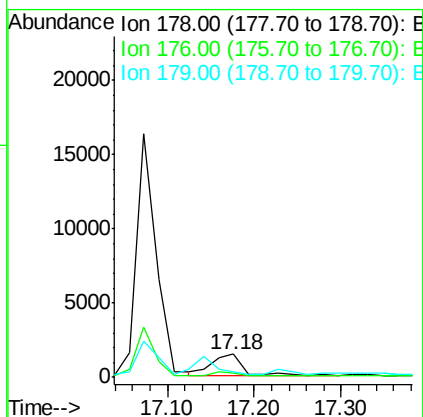
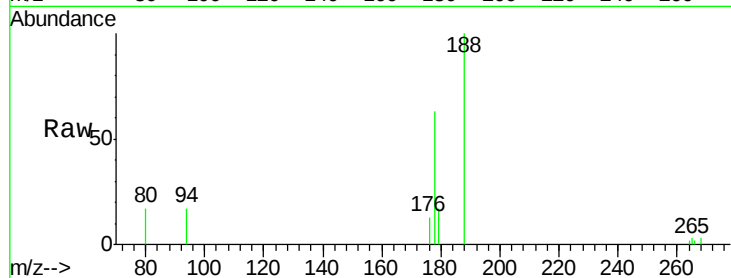
Tgt Ion:178 Resp: 3468

Ion Ratio Lower Upper

178 100

176 20.6 13.0 19.4#

179 26.5 14.2 21.2#



#15

Anthracene

Concen: 0.00 ng/ul

RT: 17.18 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

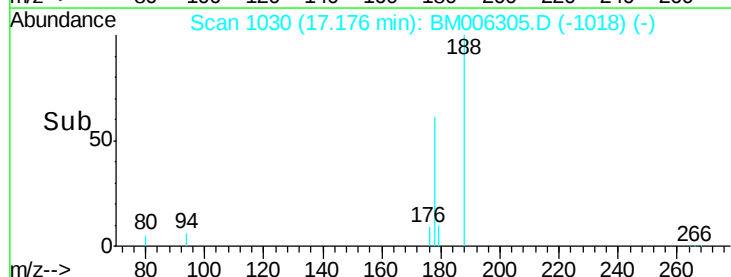
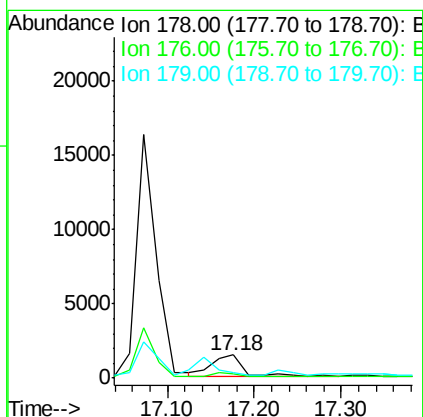
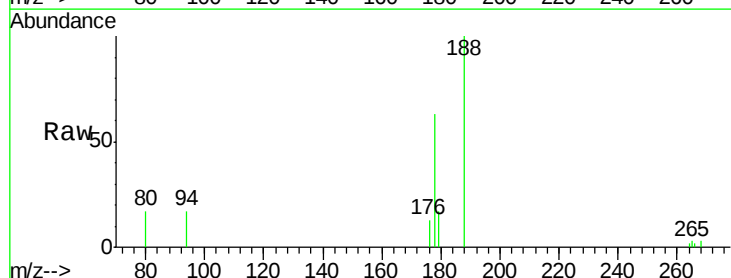
Tgt Ion:178 Resp: 3324

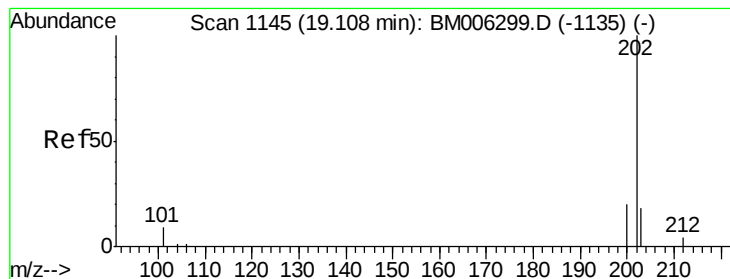
Ion Ratio Lower Upper

178 100

176 20.6 14.0 21.0

179 26.5 12.9 19.3#





#17

Fluoranthene

Concen: 0.00 ng/ul

RT: 19.25 min Scan# 1157

Delta R.T. 0.15 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

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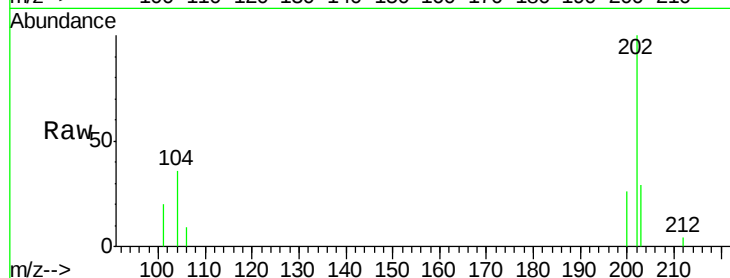
Tgt Ion:202 Resp: 3488

Ion Ratio Lower Upper

202 100

101 20.2 0.0 29.6

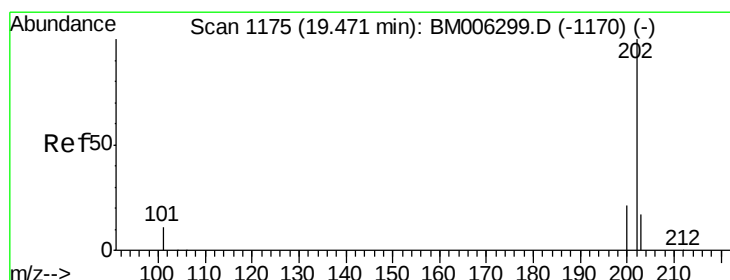
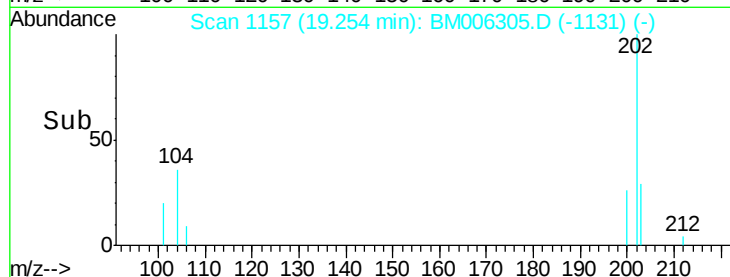
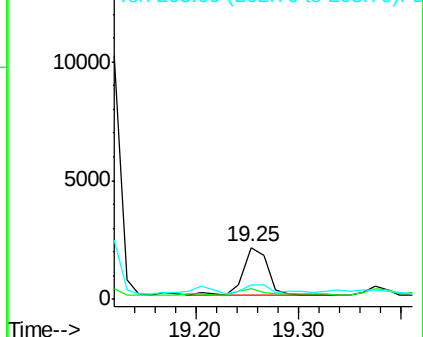
203 28.7 0.0 36.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#19

Pyrene

Concen: 0.62 ng/ul

RT: 19.47 min Scan# 1175

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

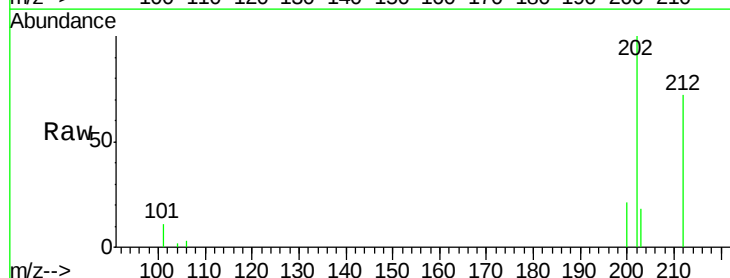
Tgt Ion:202 Resp: 47751

Ion Ratio Lower Upper

202 100

200 21.0 17.8 26.8

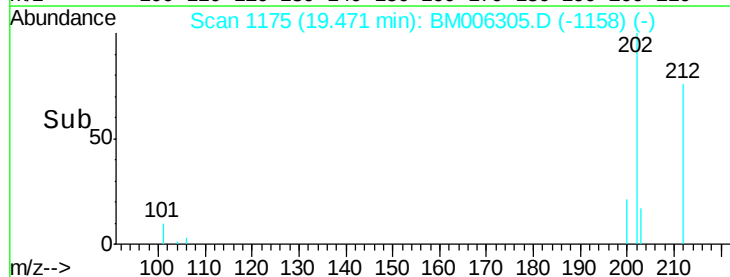
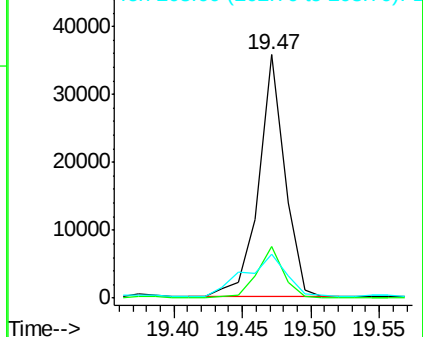
203 17.8 12.8 19.2

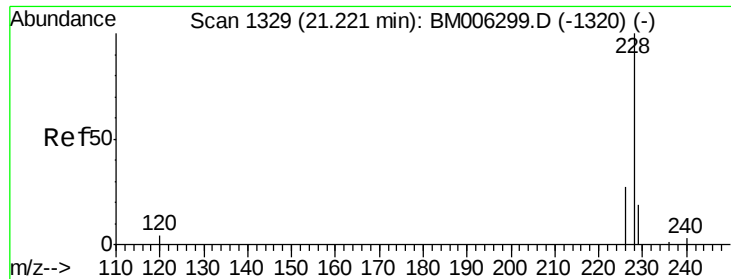


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#20

Benzo(a)anthracene

Concen: 0.24 ng/ul

RT: 21.22 min Scan# 1329

Delta R.T. 0.00 min

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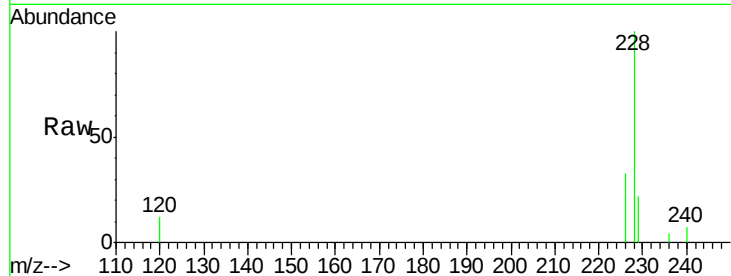
Tgt Ion:228 Resp: 14258

Ion Ratio Lower Upper

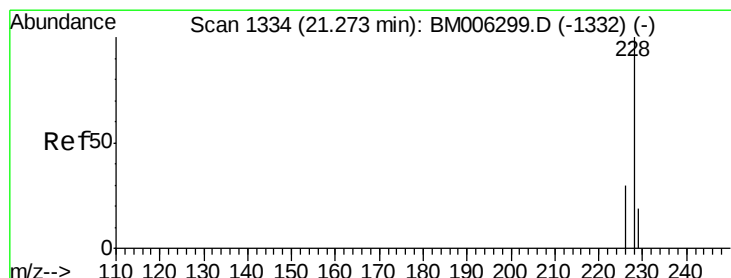
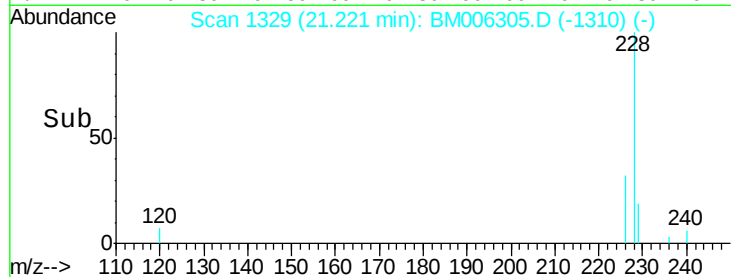
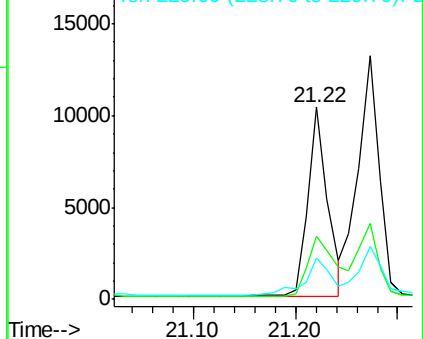
228 100

226 33.1 18.8 28.2#

229 21.6 17.1 25.7



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#21

Chrysene

Concen: 0.32 ng/ul

RT: 21.27 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

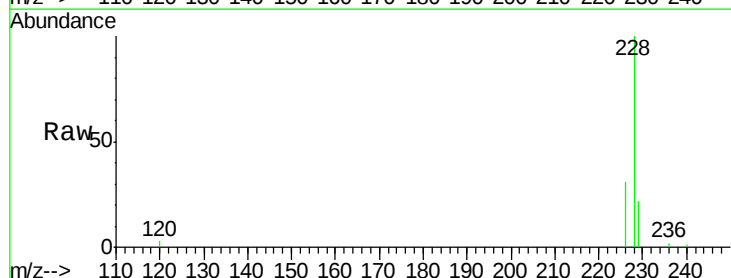
Tgt Ion:228 Resp: 19067

Ion Ratio Lower Upper

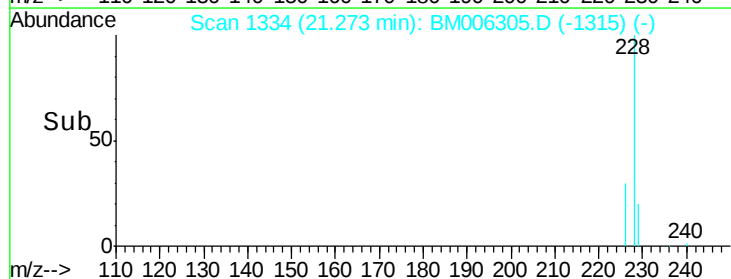
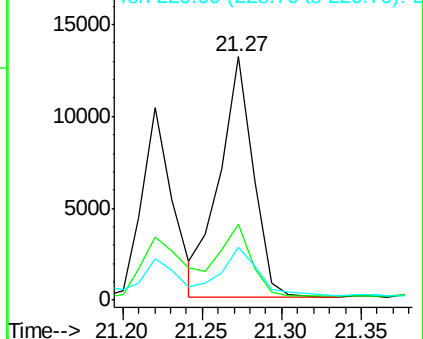
228 100

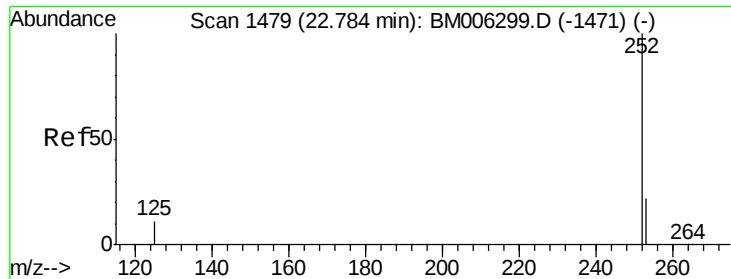
226 31.1 21.2 31.8

229 22.0 17.0 25.6



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 0.01 ng/u1

RT: 22.78 min Scan# 1479

Delta R.T. 0.00 min

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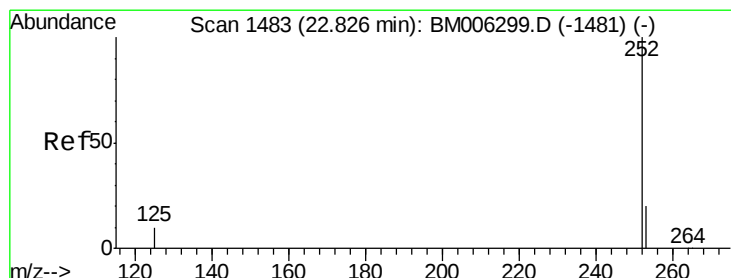
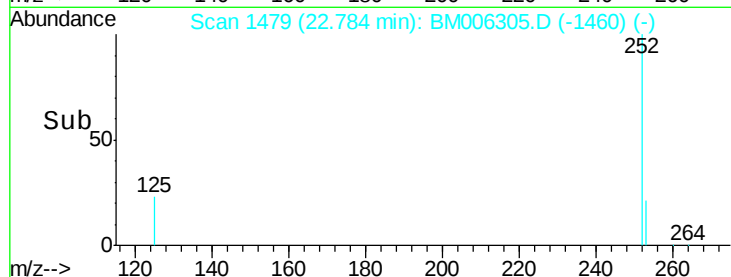
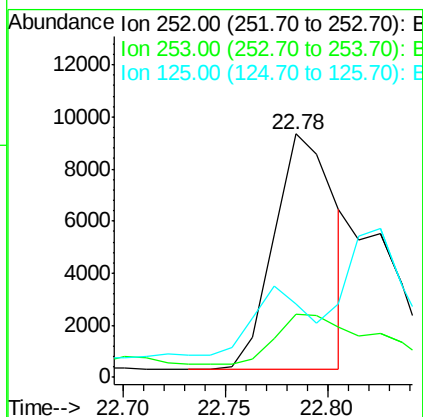
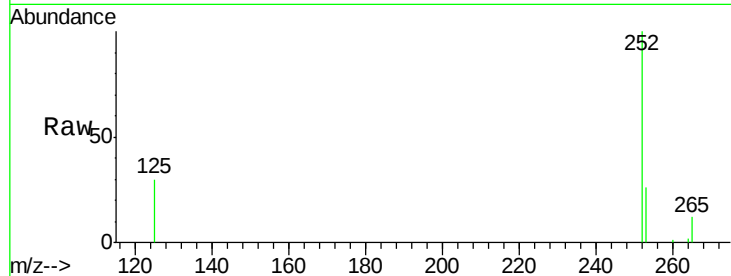
Tgt Ion:252 Resp: 18790

Ion Ratio Lower Upper

252 100

253 25.9 0.0 45.4

125 30.0 0.0 28.8#



#24

Benzo(k)fluoranthene

Concen: 0.01 ng/u1

RT: 22.78 min Scan# 1479

Delta R.T. -0.04 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

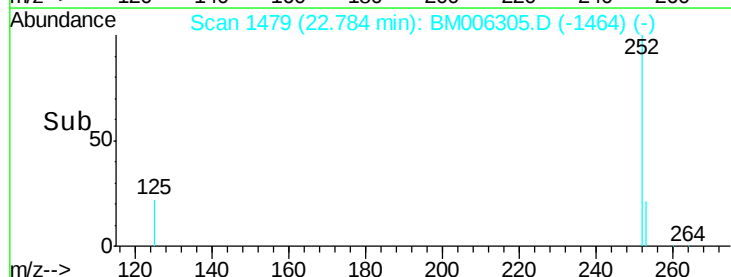
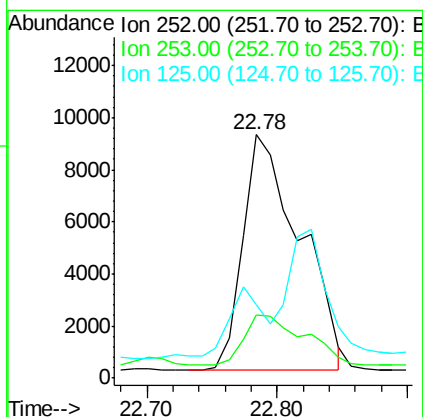
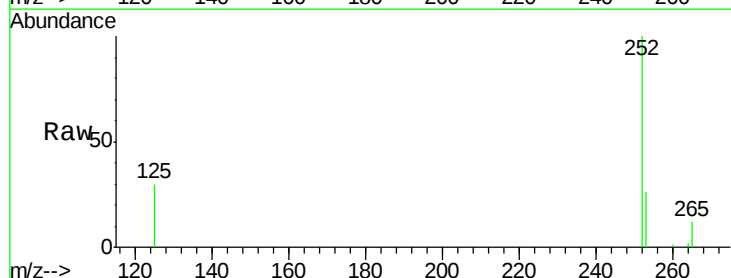
Tgt Ion:252 Resp: 27776

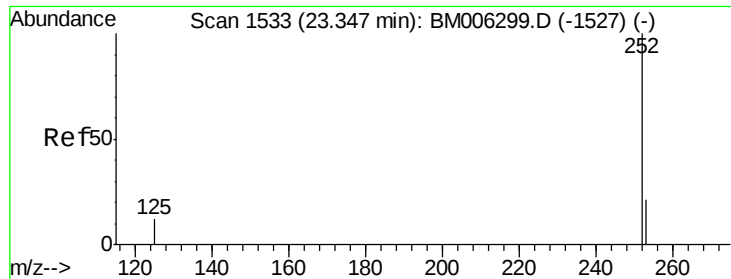
Ion Ratio Lower Upper

252 100

253 25.9 19.8 29.8

125 30.0 10.4 15.6#





#25

Benzo(a)pyrene

Concen: 0.00 ng/u1

RT: 23.25 min Scan# 1524

Delta R.T. -0.09 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

A4TW9

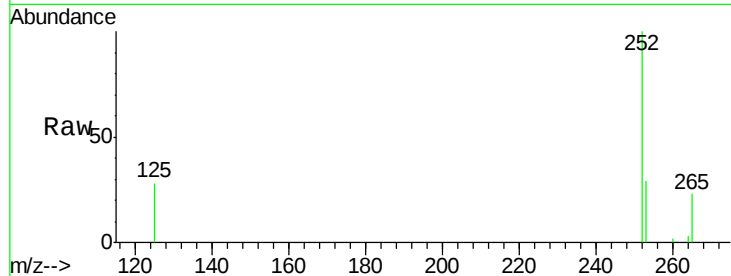
Tgt Ion:252 Resp: 10876

Ion Ratio Lower Upper

252 100

253 28.5 19.4 29.2

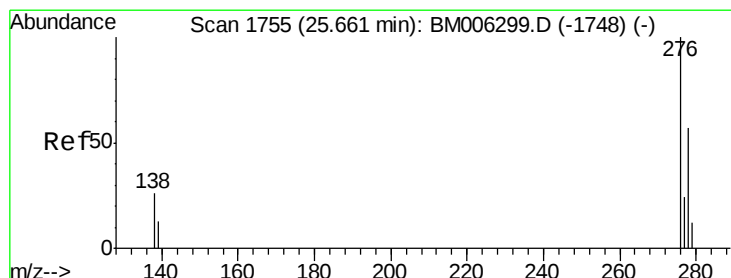
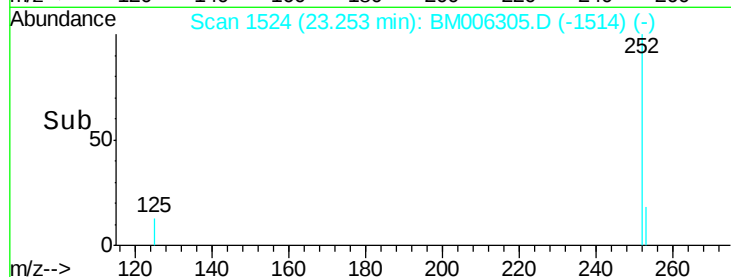
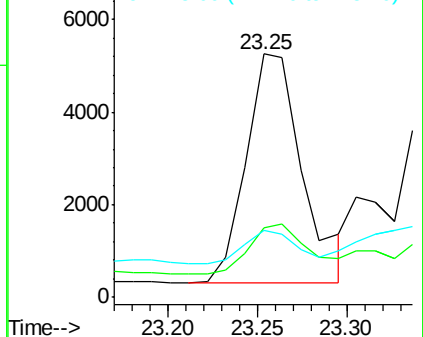
125 27.7 12.7 19.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/u1

RT: 25.66 min Scan# 1755

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

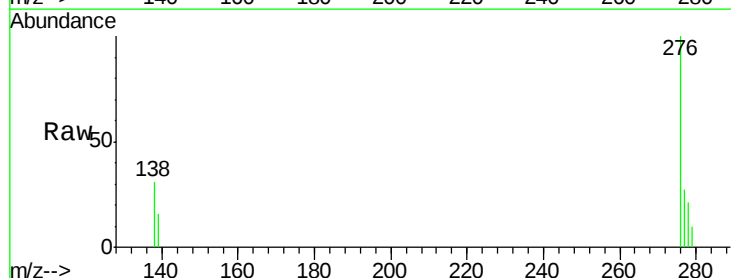
Tgt Ion:276 Resp: 7207

Ion Ratio Lower Upper

276 100

138 23.8 16.3 24.5

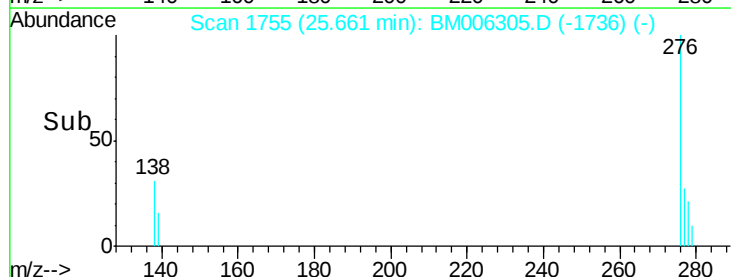
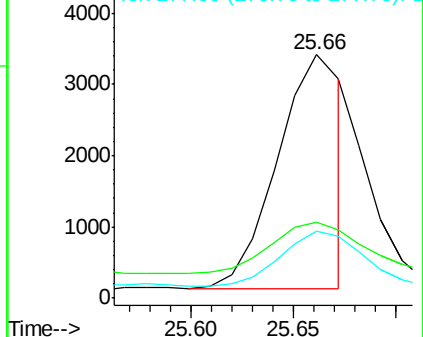
277 22.1 19.8 29.8

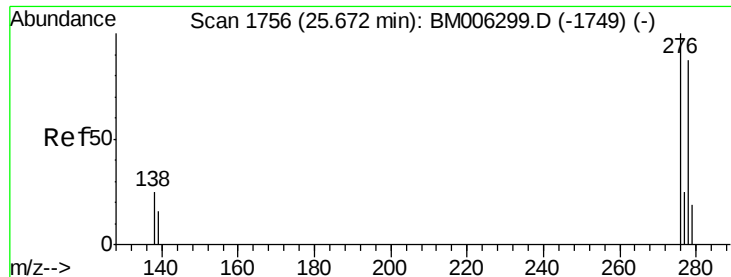


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

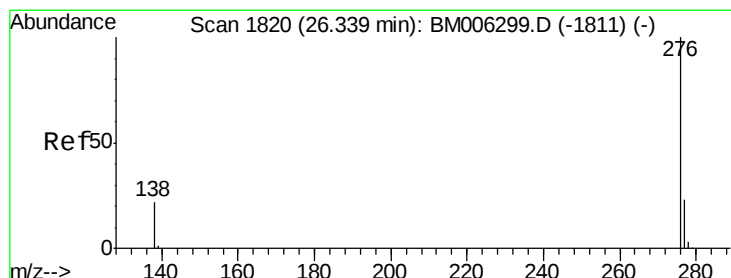
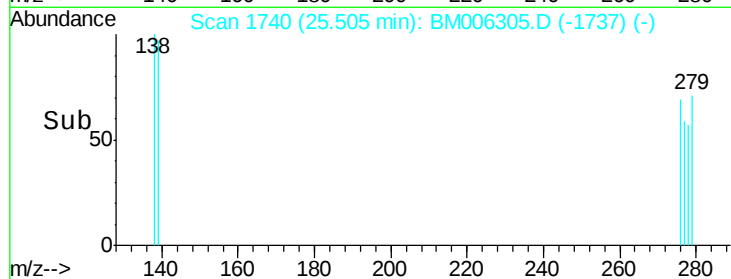
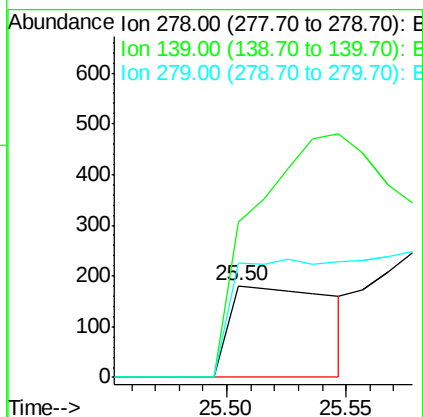
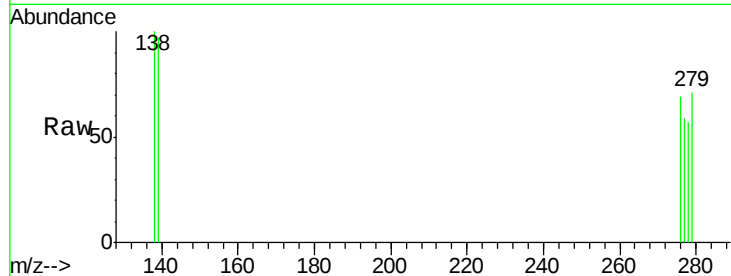




#27  
Dibenzo(a,h)anthracene  
Concen: 0.00 ng/ul  
RT: 25.50 min Scan# 1740  
Delta R.T. -0.17 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

Instrument :  
BNA\_M  
ClientSampleId :  
A4TW9

Tgt Ion: 278 Resp: 533  
Ion Ratio Lower Upper  
278 100  
139 169.1 16.4 24.6#  
279 124.3 20.2 30.2#



#28  
Benzo(g,h,i)perylene  
Concen: 0.00 ng/ul  
RT: 26.15 min Scan# 1802  
Delta R.T. -0.19 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

Tgt Ion: 276 Resp: 99  
Ion Ratio Lower Upper  
276 100  
277 104.4 18.9 28.3#  
138 189.7 22.5 33.7#

