

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053116\  
 Data File : BF087615.D  
 Acq On : 1 Jun 2016 10:35  
 Operator : UM/SJ  
 Sample : H3190-16DL 5X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1679(0-4)

Quant Time: Jun 01 13:36:23 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 25 16:26:52 2016  
 Response via : Initial Calibration

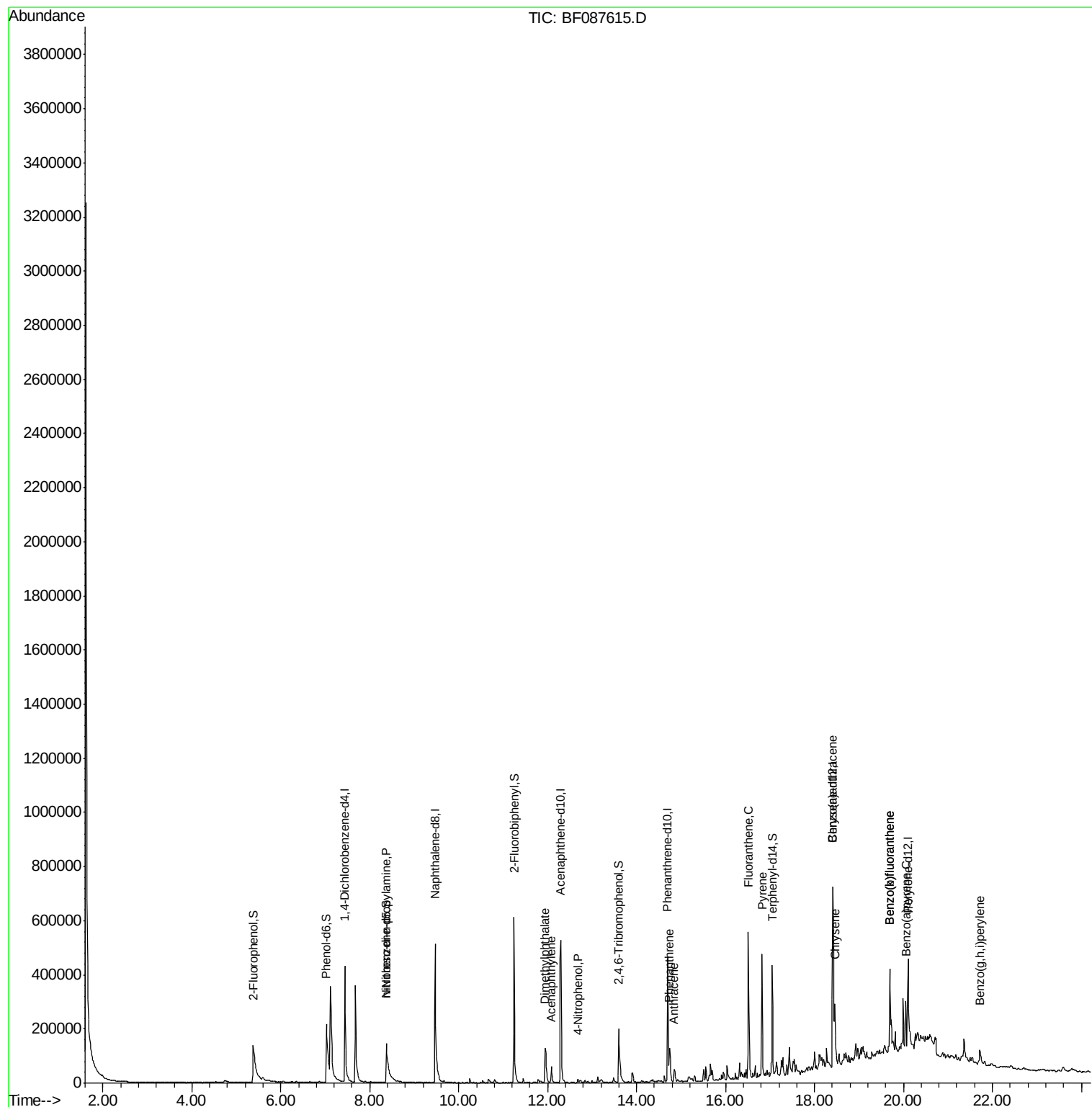
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.44  | 152  | 99480    | 20.00 | ng    | -0.08    |
| 21) Naphthalene-d8             | 9.47  | 136  | 389640   | 20.00 | ng    | -0.08    |
| 38) Acenaphthene-d10           | 12.30 | 164  | 168064   | 20.00 | ng    | -0.09    |
| 63) Phenanthrene-d10           | 14.70 | 188  | 261302   | 20.00 | ng    | -0.08    |
| 75) Chrysene-d12               | 18.41 | 240  | 210147   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12               | 20.10 | 264  | 178679   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.38  | 112  | 144754   | 25.57 | ng    | -0.03    |
| 7) Phenol-d6                   | 7.03  | 99   | 220739   | 28.86 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 8.38  | 82   | 156321   | 20.22 | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol       | 13.60 | 330  | 38318    | 23.73 | ng    | -0.08    |
| 44) 2-Fluorobiphenyl           | 11.24 | 172  | 265206   | 22.25 | ng    | -0.09    |
| 78) Terphenyl-d14              | 17.05 | 244  | 151479   | 15.32 | ng    | -0.08    |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 8.38  | 70   | 11798    | 2.07  | ng    | # 70     |
| 48) Acenaphthylene             | 12.08 | 152  | 44545    | 2.60  | ng    | 98       |
| 49) Dimethylphthalate          | 11.94 | 163  | 92593    | 6.88  | ng    | 98       |
| 55) 4-Nitrophenol              | 12.69 | 139  | 2667     | 2.01  | ng    | # 14     |
| 70) Phenanthrene               | 14.74 | 178  | 86516    | 5.98  | ng    | 100      |
| 71) Anthracene                 | 14.85 | 178  | 43989    | 3.01  | ng    | 97       |
| 74) Fluoranthene               | 16.51 | 202  | 291040   | 20.05 | ng    | 94       |
| 77) Pyrene                     | 16.82 | 202  | 255294   | 16.88 | ng    | 99       |
| 80) Benzo(a)anthracene         | 18.41 | 228  | 156110   | 13.06 | ng    | 92       |
| 82) Chrysene                   | 18.46 | 228  | 127476   | 10.75 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 19.69 | 252  | 242505   | 21.31 | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 19.69 | 252  | 242505   | 24.75 | ng    | 100      |
| 89) Benzo(a)pyrene             | 20.06 | 252  | 95397    | 9.69  | ng    | 95       |
| 91) Benzo(g,h,i)perylene       | 21.71 | 276  | 44740    | 5.40  | ng    | 95       |

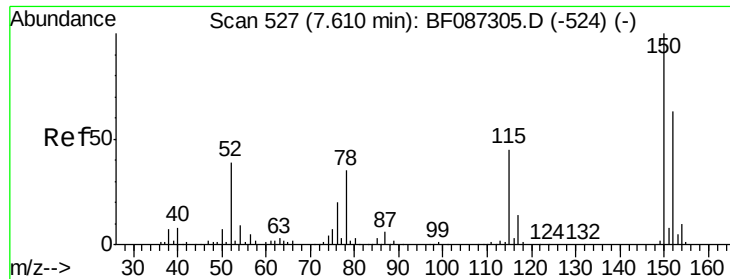
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF053116\  
Data File : BF087615.D  
Acq On : 1 Jun 2016 10:35  
Operator : UM/SJ  
Sample : H3190-16DL 5X  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1679(0-4)

Quant Time: Jun 01 13:36:23 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF052316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 25 16:26:52 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.44 min Scan# 512

Delta R.T. -0.08 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

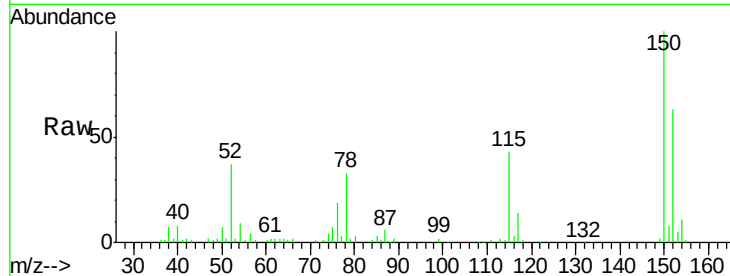
Tgt Ion:152 Resp: 99480

Ion Ratio Lower Upper

152 100

150 157.6 125.8 188.6

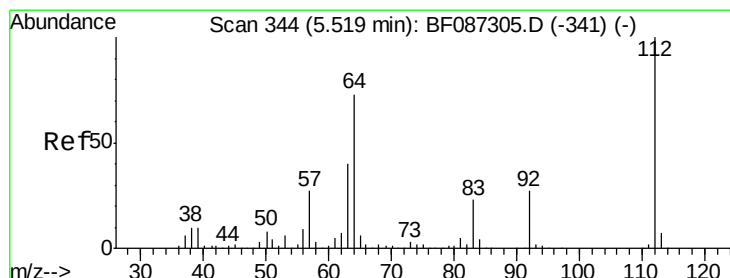
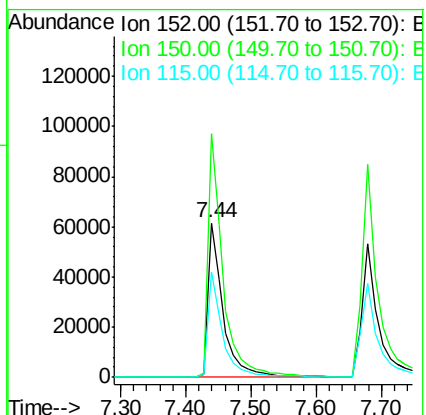
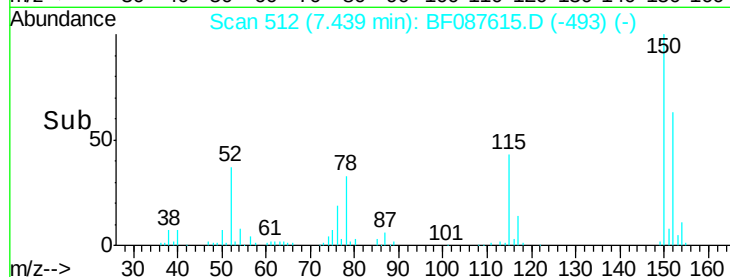
115 68.5 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 25.57 ng

RT: 5.38 min Scan# 332

Delta R.T. -0.03 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

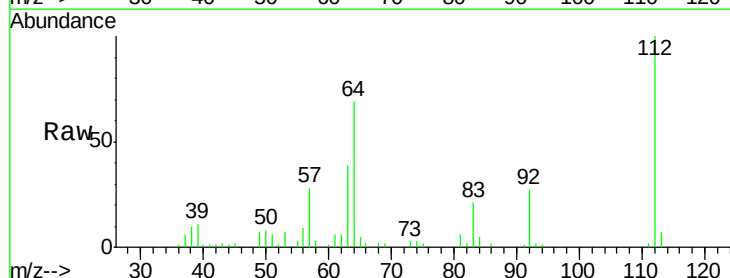
Tgt Ion:112 Resp: 144754

Ion Ratio Lower Upper

112 100

64 69.3 52.1 78.1

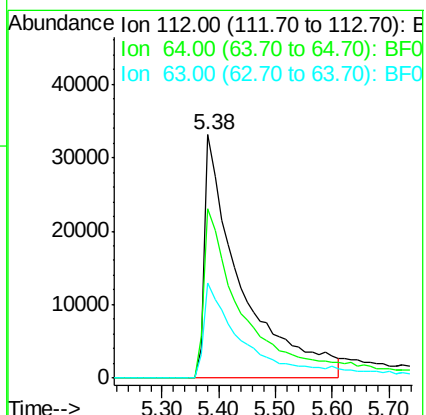
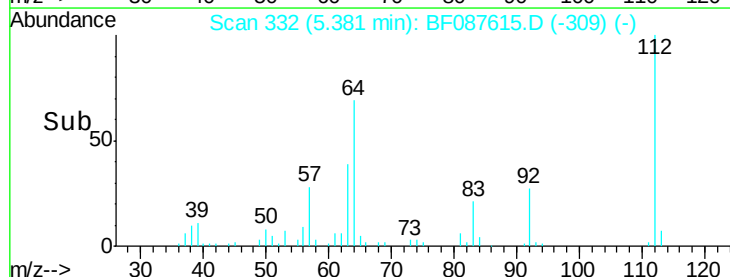
63 39.0 25.7 38.5#

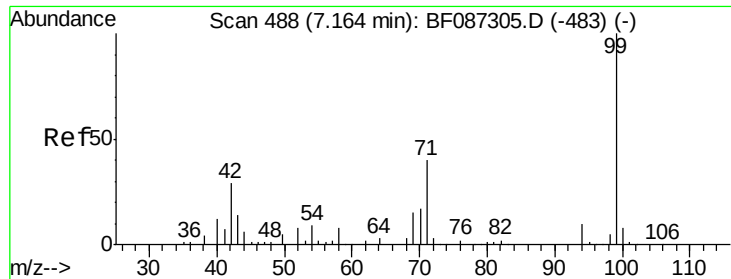


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 28.86 ng

RT: 7.03 min Scan# 476

Delta R.T. -0.05 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

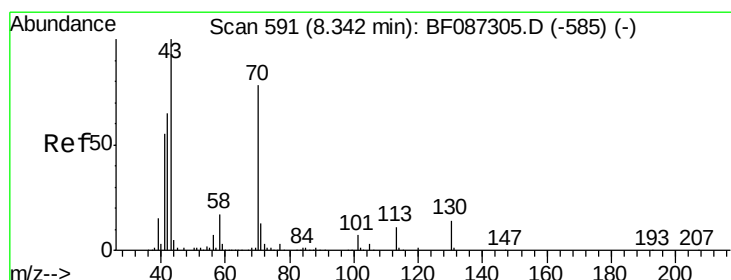
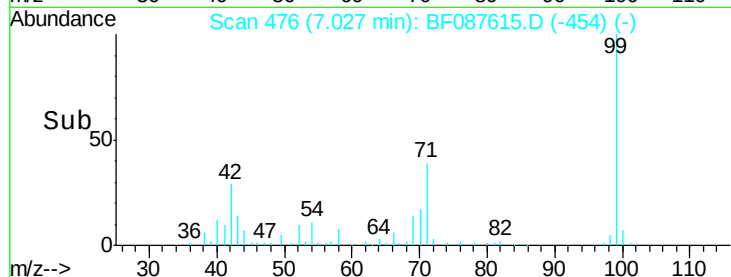
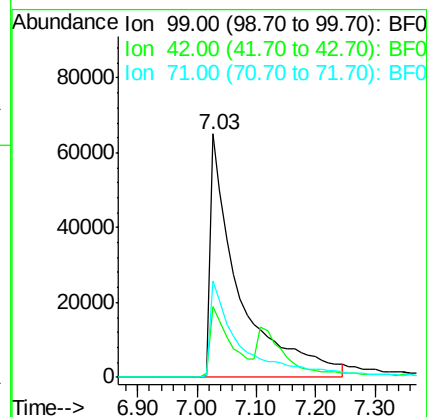
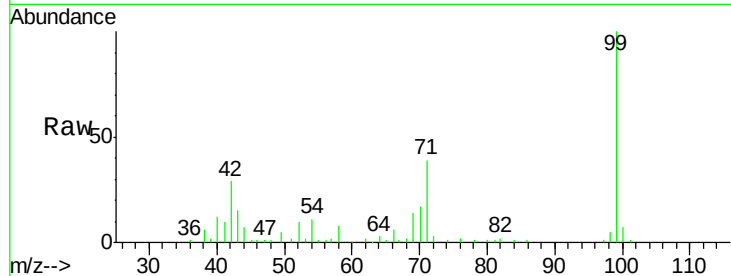
Tgt Ion: 99 Resp: 220739

Ion Ratio Lower Upper

99 100

42 29.3 13.6 20.4#

71 39.4 24.6 36.8#



#19

n-Nitroso-di-n-propylamine

Concen: 2.07 ng

RT: 8.38 min Scan# 594

Delta R.T. 0.13 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Tgt Ion: 70 Resp: 11798

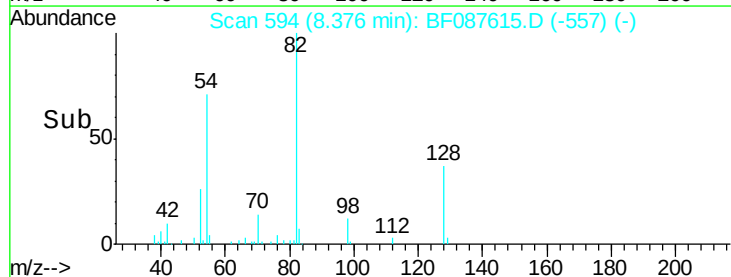
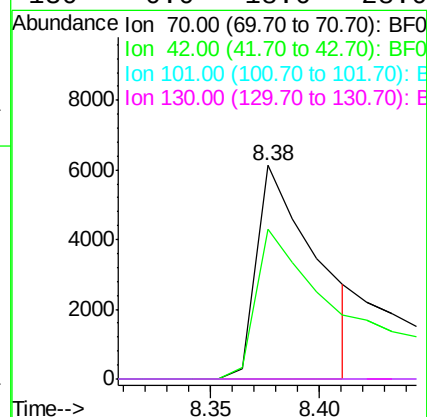
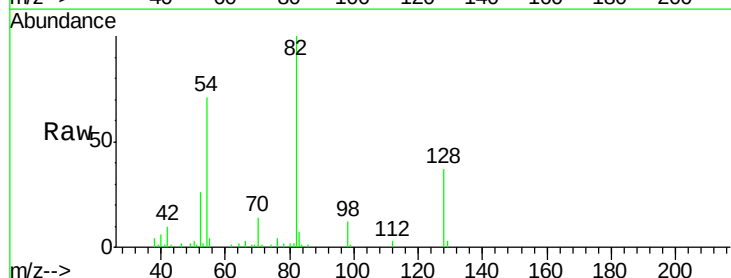
Ion Ratio Lower Upper

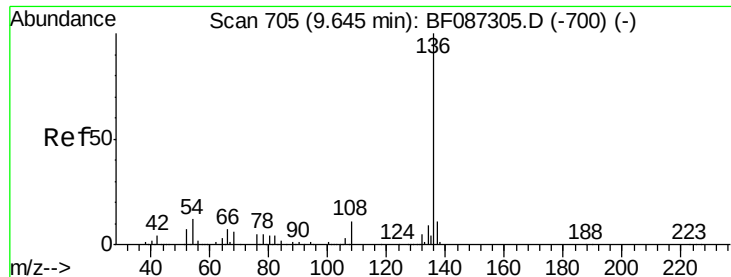
70 100

42 70.0 43.1 64.7#

101 0.0 8.1 12.1#

130 0.0 18.6 28.0#

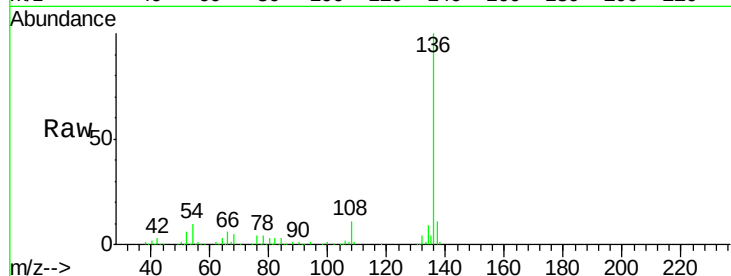




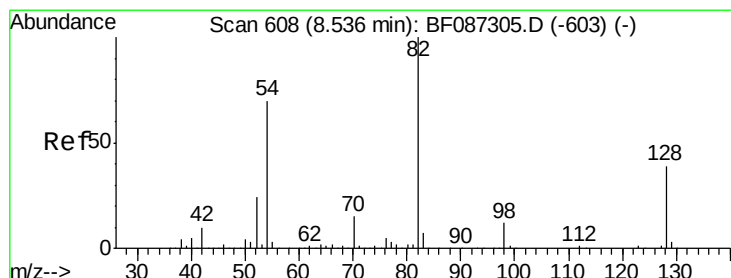
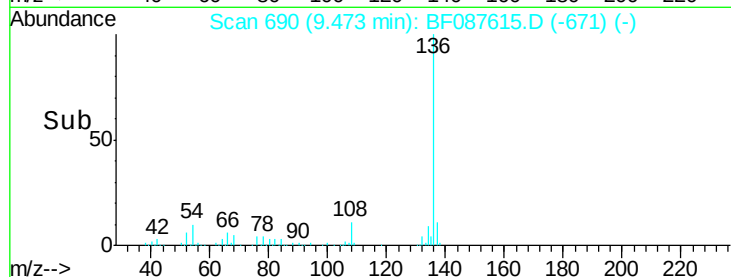
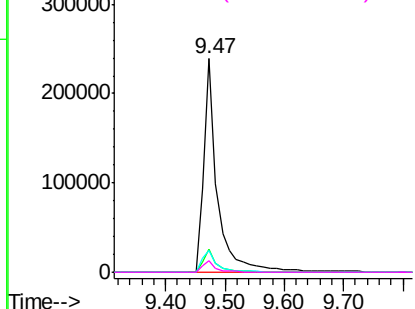
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 9.47 min Scan# 690  
Delta R.T. -0.08 min  
Lab File: BF087615.D  
Acq: 1 Jun 2016 10:35

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1679(0-4)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 389640 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.8   | 13.2   |
| 54       | 10.4  | 5.0   | 7.4#   |
| 68       | 5.2   | 4.4   | 6.6    |

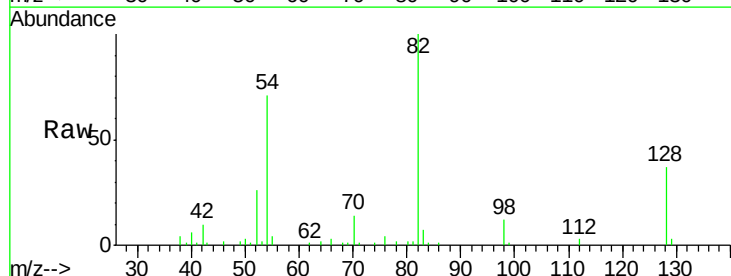


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

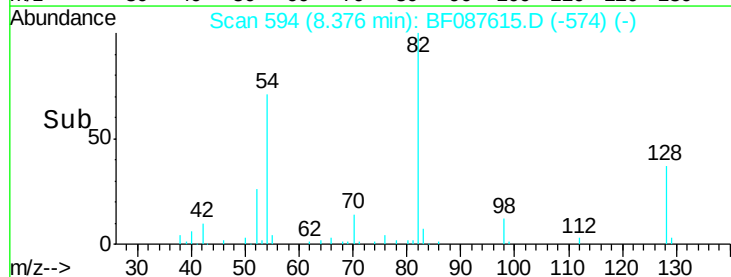
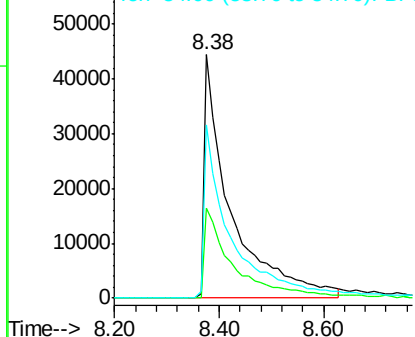


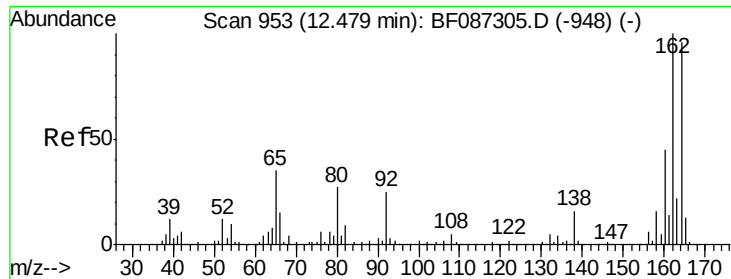
#23  
Nitrobenzene-d5  
Concen: 20.22 ng  
RT: 8.38 min Scan# 594  
Delta R.T. -0.07 min  
Lab File: BF087615.D  
Acq: 1 Jun 2016 10:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 156321 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.7  | 40.6  | 61.0#  |
| 54       | 71.0  | 38.1  | 57.1#  |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0

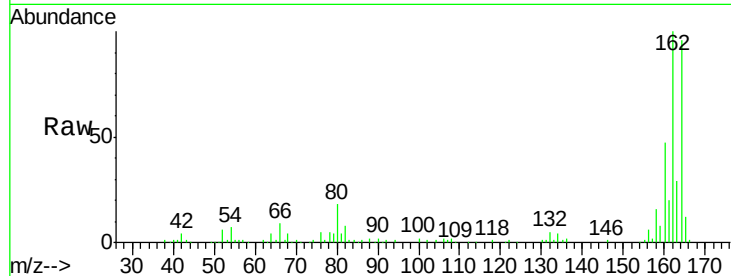




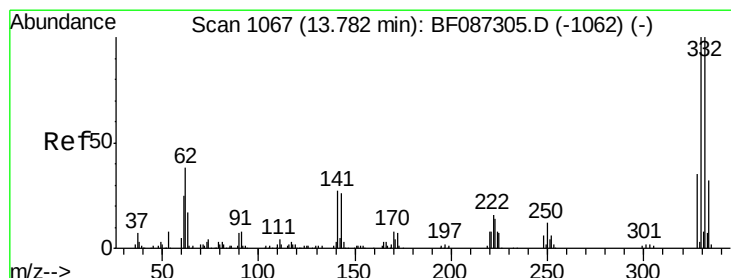
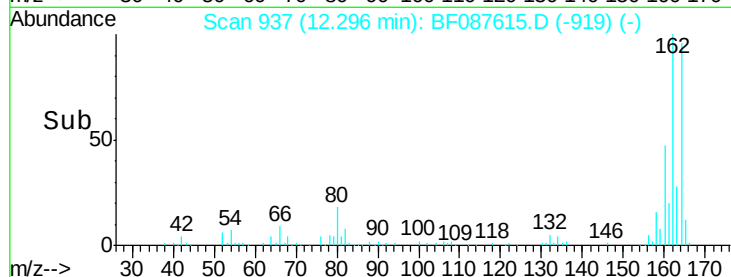
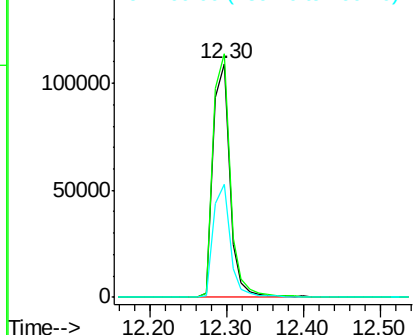
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 12.30 min Scan# 937  
 Delta R.T. -0.09 min  
 Lab File: BF087615.D  
 Acq: 1 Jun 2016 10:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1679(0-4)

Tgt Ion:164 Resp: 168064  
 Ion Ratio Lower Upper  
 164 100  
 162 104.2 82.8 124.2  
 160 48.5 36.9 55.3

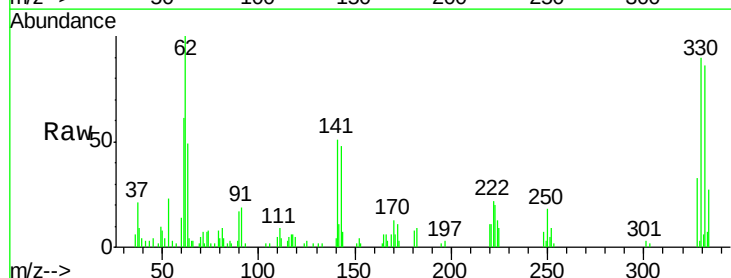


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

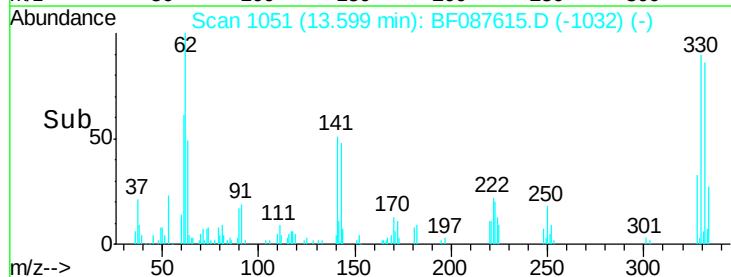
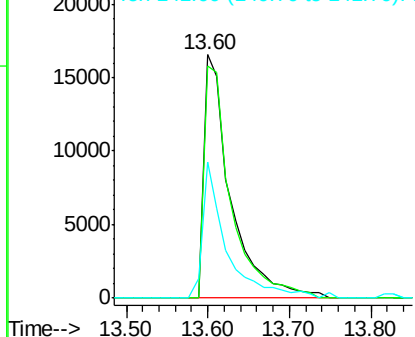


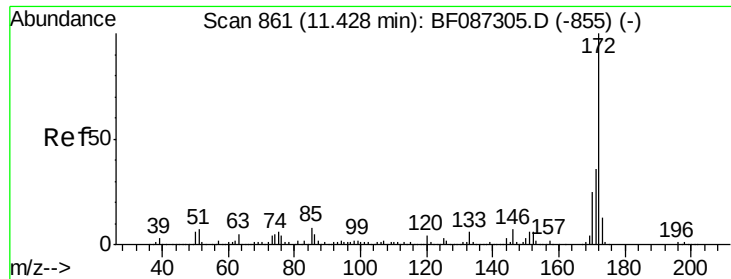
#41  
 2,4,6-Tribromophenol  
 Concen: 23.73 ng  
 RT: 13.60 min Scan# 1051  
 Delta R.T. -0.08 min  
 Lab File: BF087615.D  
 Acq: 1 Jun 2016 10:35

Tgt Ion:330 Resp: 38318  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 79.0 118.4  
 141 49.4 31.2 46.8#



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

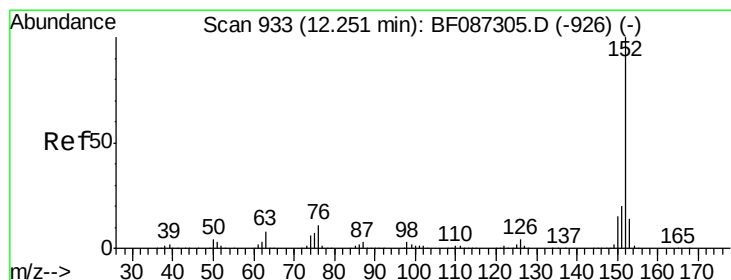
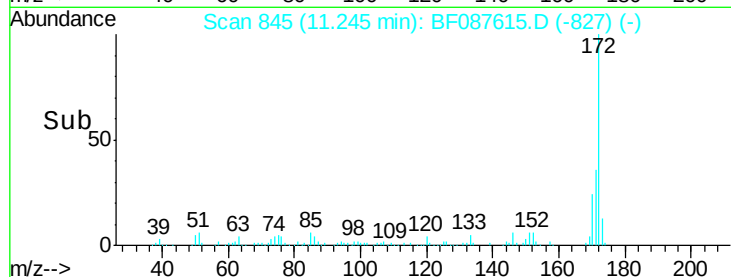
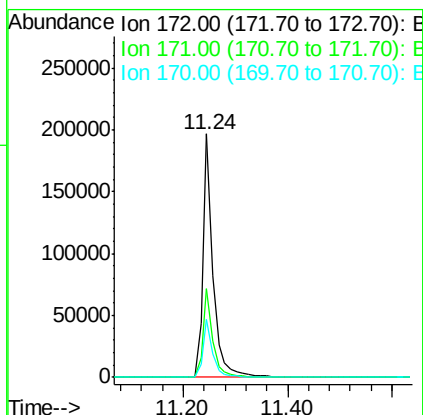
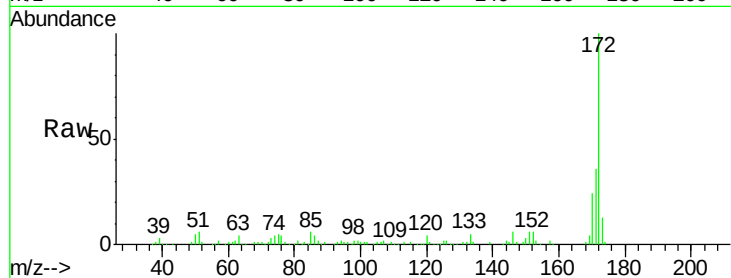




#44  
2-Fluorobiphenyl  
Concen: 22.25 ng  
RT: 11.24 min Scan# 845  
Delta R.T. -0.09 min  
Lab File: BF087615.D  
Acq: 1 Jun 2016 10:35

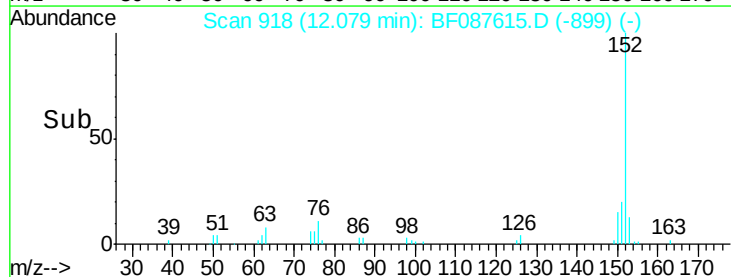
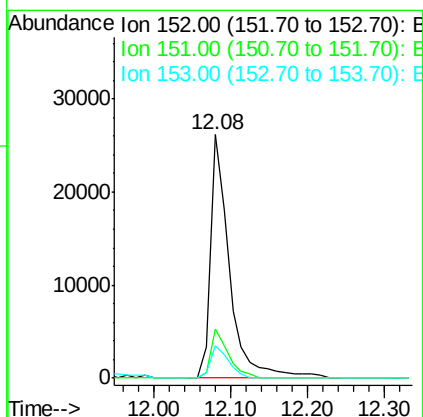
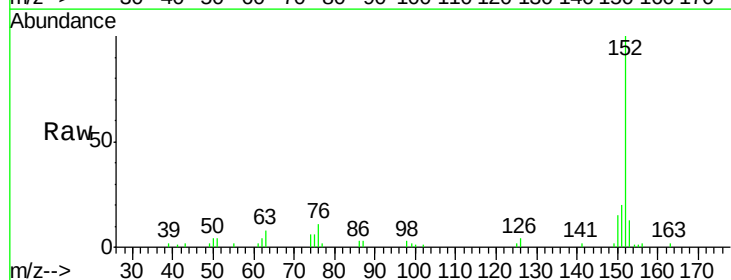
Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1679(0-4)

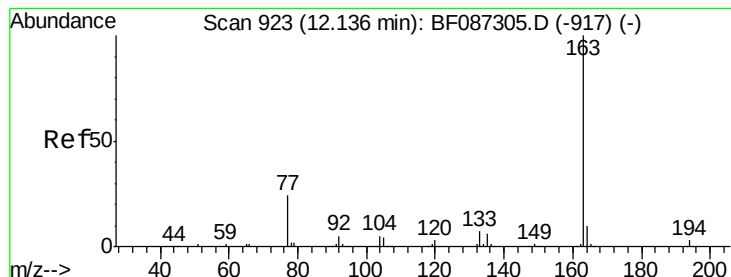
Tgt Ion:172 Resp: 265206  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.0 43.6  
170 23.6 19.8 29.8



#48  
Acenaphthylene  
Concen: 2.60 ng  
RT: 12.08 min Scan# 918  
Delta R.T. -0.08 min  
Lab File: BF087615.D  
Acq: 1 Jun 2016 10:35

Tgt Ion:152 Resp: 44545  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.8 25.2  
153 13.5 10.9 16.3





#49

Dimethylphthalate

Concen: 6.88 ng

RT: 11.94 min Scan# 906

Delta R.T. -0.10 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

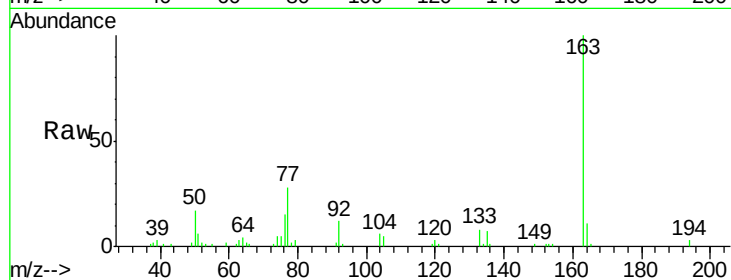
Tgt Ion:163 Resp: 92593

Ion Ratio Lower Upper

163 100

194 3.0 2.6 4.0

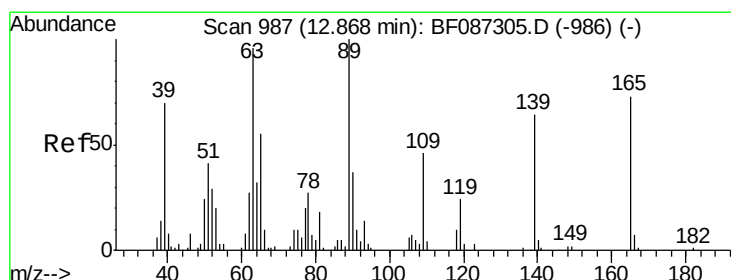
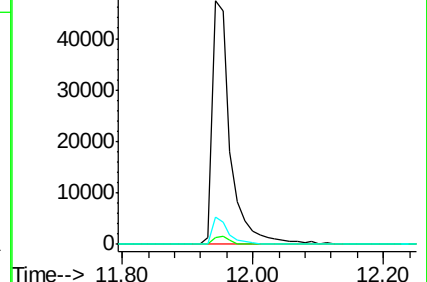
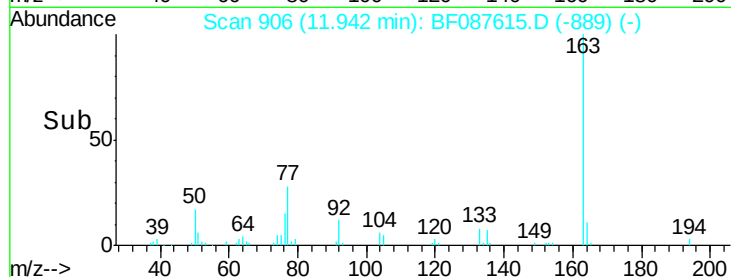
164 11.0 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55

4-Nitrophenol

Concen: 2.01 ng

RT: 12.69 min Scan# 971

Delta R.T. -0.09 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

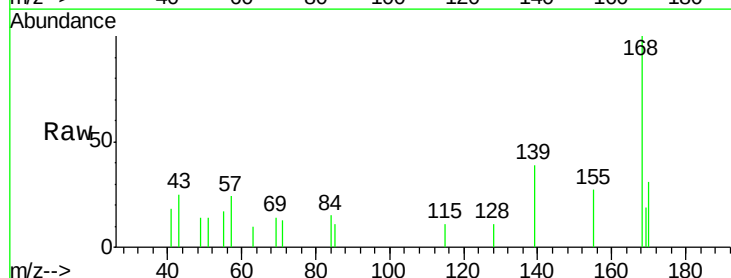
Tgt Ion:139 Resp: 2667

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

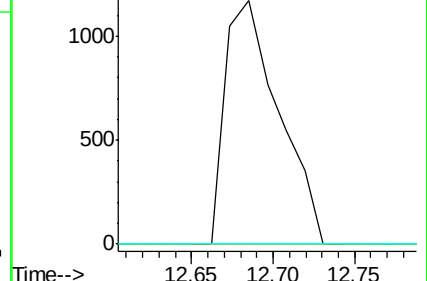
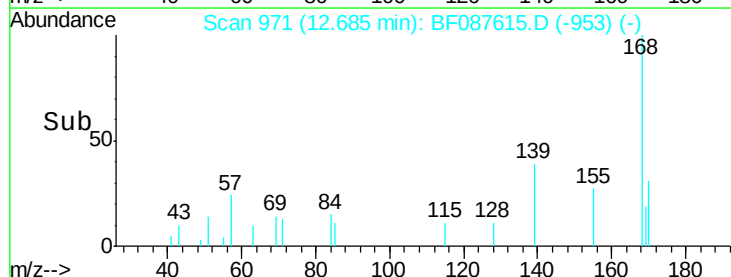
65 0.0 64.0 104.0#



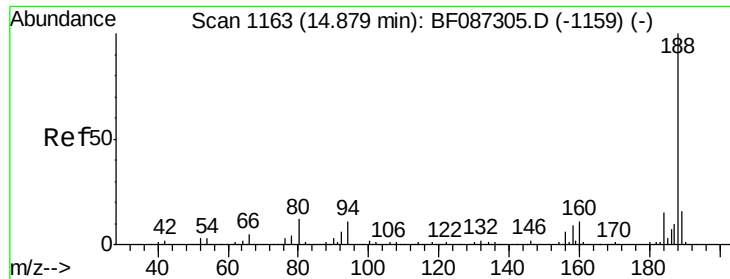
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



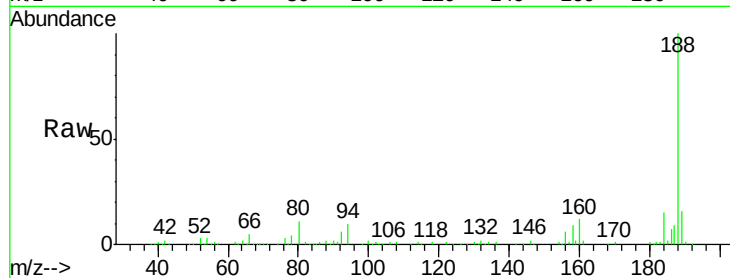




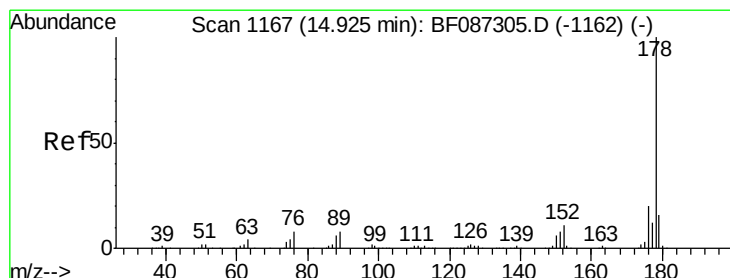
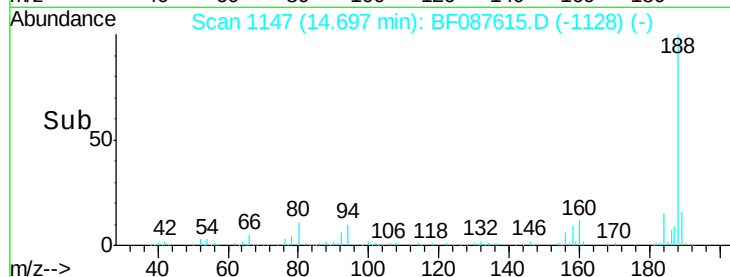
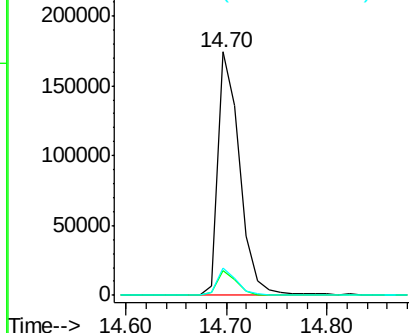
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.70 min Scan# 1147  
 Delta R.T. -0.08 min  
 Lab File: BF087615.D  
 Acq: 1 Jun 2016 10:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1679(0-4)

Tgt Ion:188 Resp: 261302  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 6.8 10.2  
 80 11.4 7.1 10.7#

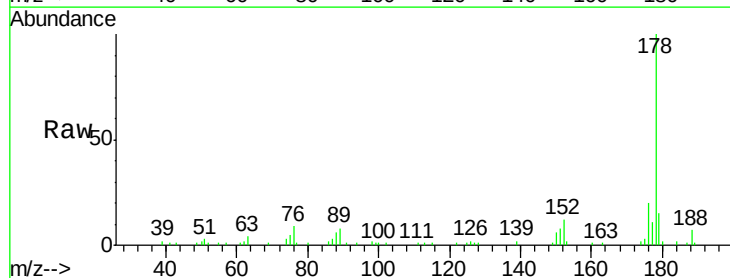


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

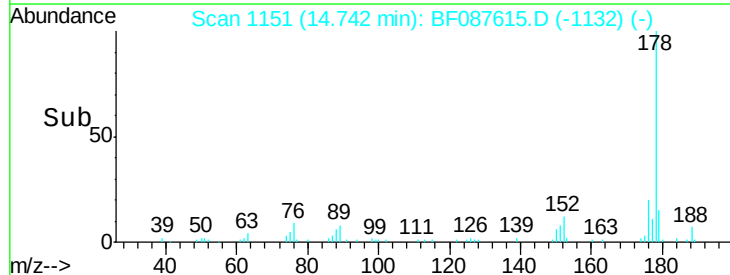
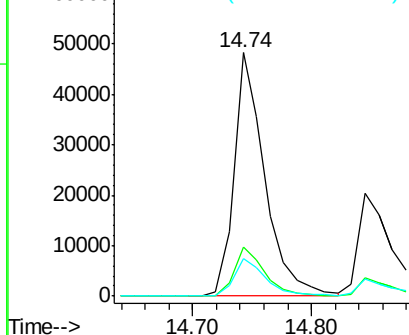


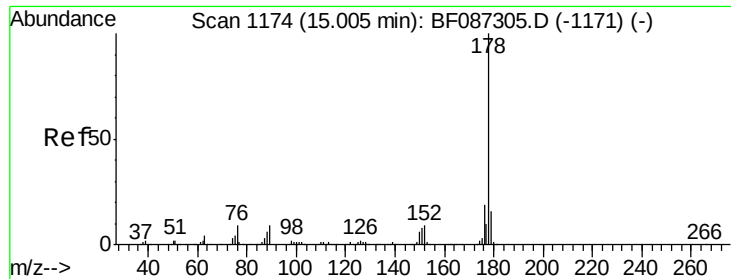
#70  
 Phenanthrene  
 Concen: 5.98 ng  
 RT: 14.74 min Scan# 1151  
 Delta R.T. -0.08 min  
 Lab File: BF087615.D  
 Acq: 1 Jun 2016 10:35

Tgt Ion:178 Resp: 86516  
 Ion Ratio Lower Upper  
 178 100  
 176 19.9 16.0 24.0  
 179 15.4 12.6 18.8



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





#71

Anthracene

Concen: 3.01 ng

RT: 14.85 min Scan# 1160

Delta R.T. -0.06 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

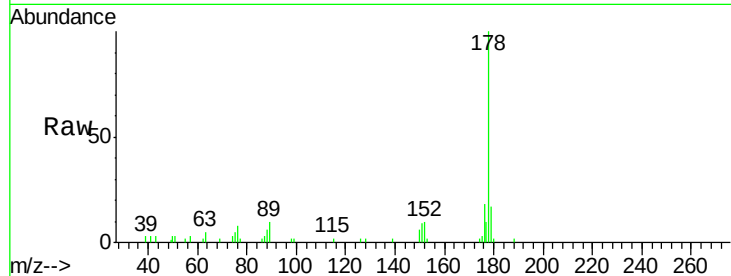
Tgt Ion:178 Resp: 43989

Ion Ratio Lower Upper

178 100

176 17.7 15.6 23.4

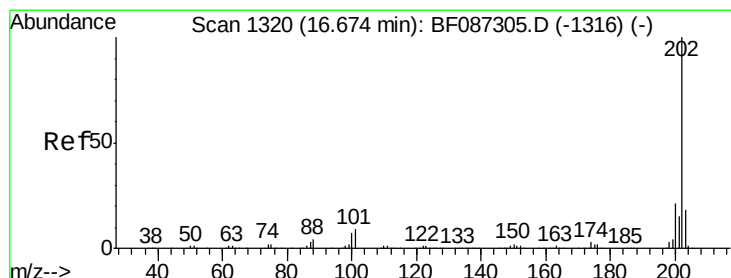
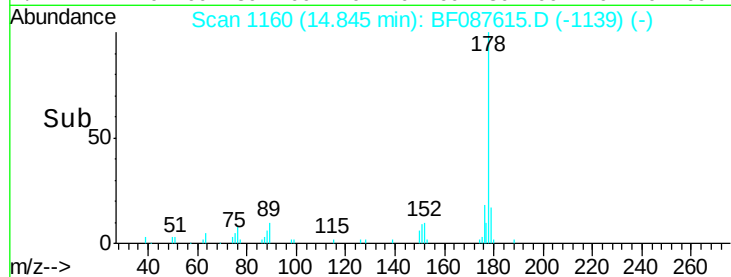
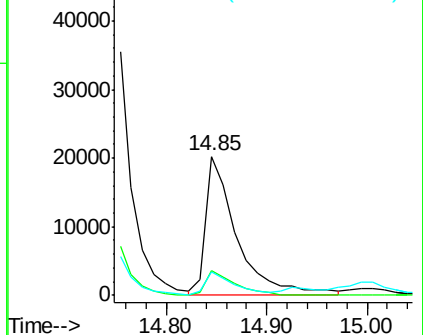
179 16.6 12.7 19.1



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



#74

Fluoranthene

Concen: 20.05 ng

RT: 16.51 min Scan# 1306

Delta R.T. -0.07 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

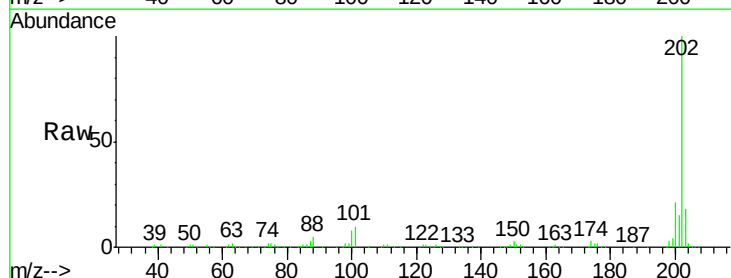
Tgt Ion:202 Resp: 291040

Ion Ratio Lower Upper

202 100

101 10.1 0.0 35.4

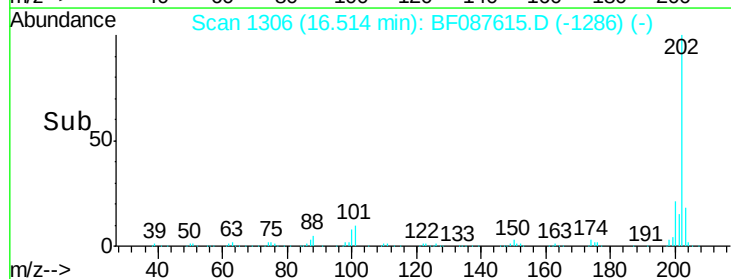
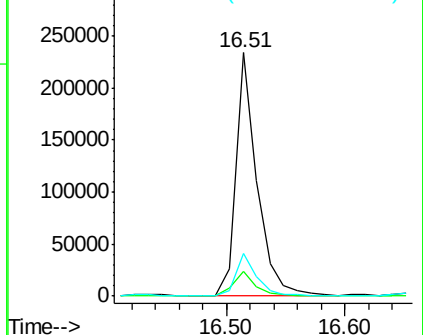
203 17.6 0.0 38.1

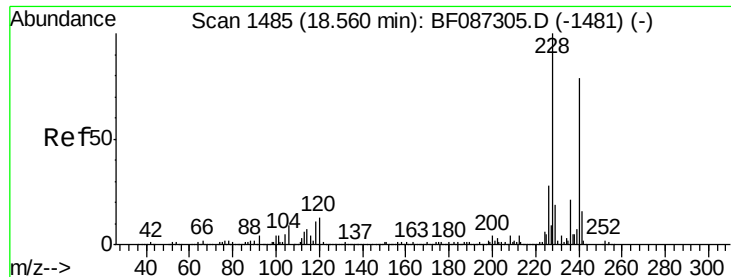


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.41 min Scan# 1472

Delta R.T. -0.07 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

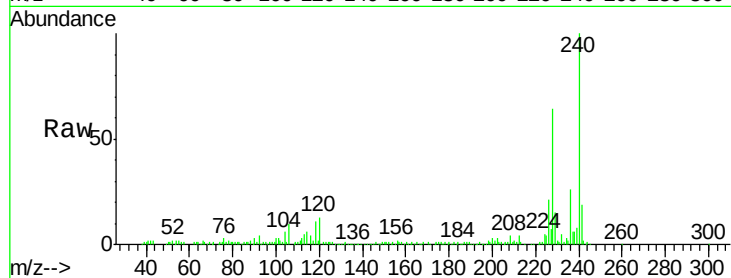
Tgt Ion:240 Resp: 210147

Ion Ratio Lower Upper

240 100

120 13.2 11.2 16.8

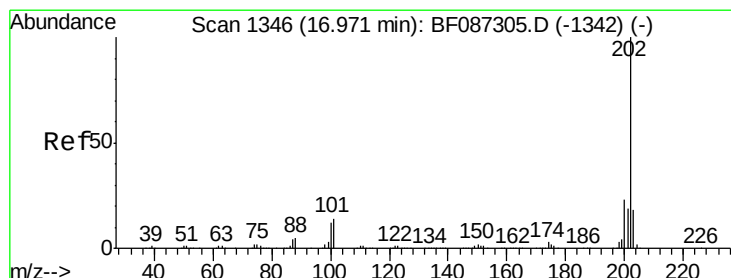
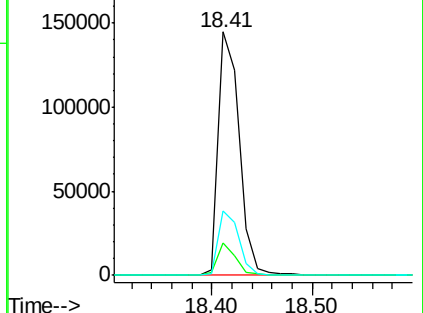
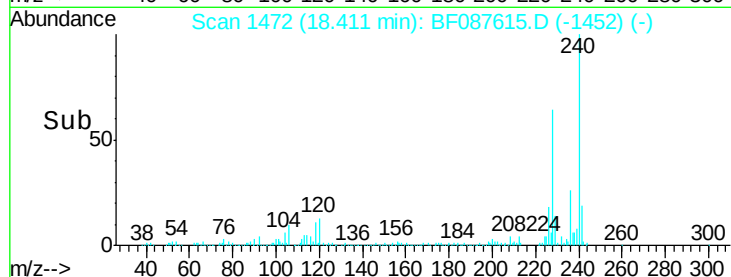
236 26.2 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.88 ng

RT: 16.82 min Scan# 1333

Delta R.T. -0.06 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

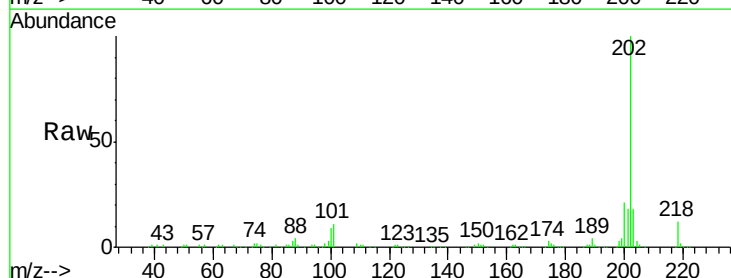
Tgt Ion:202 Resp: 255294

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

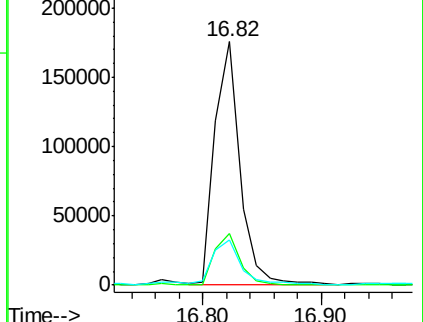
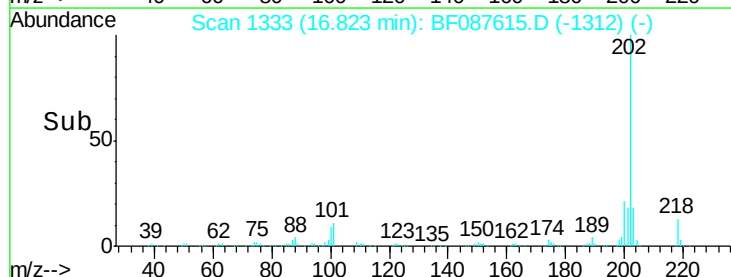
203 18.4 14.2 21.4

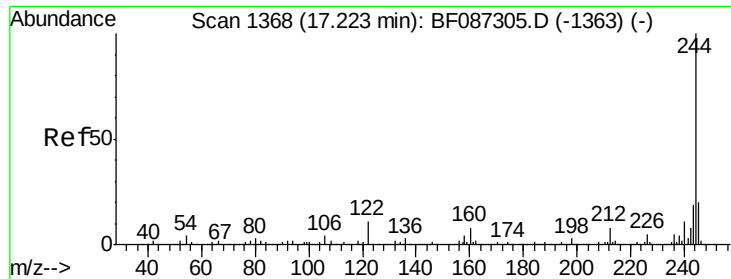


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.32 ng

RT: 17.05 min Scan# 1353

Delta R.T. -0.08 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

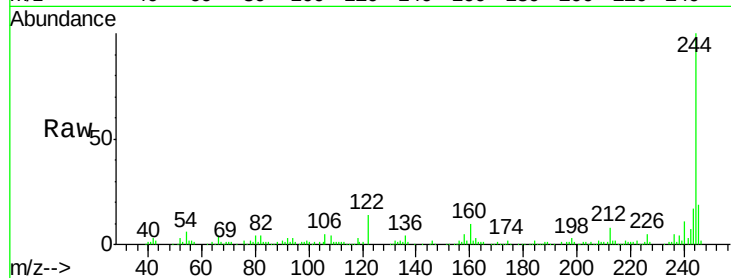
Tgt Ion:244 Resp: 151479

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

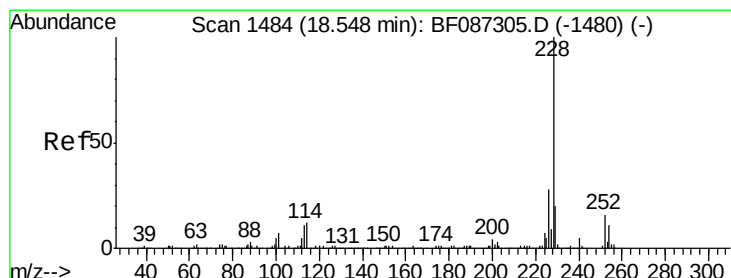
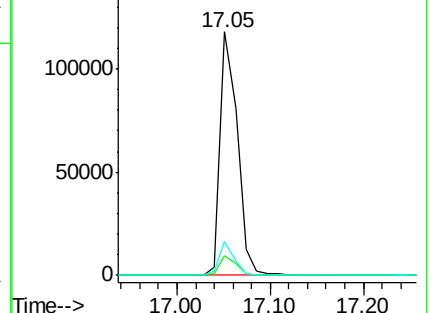
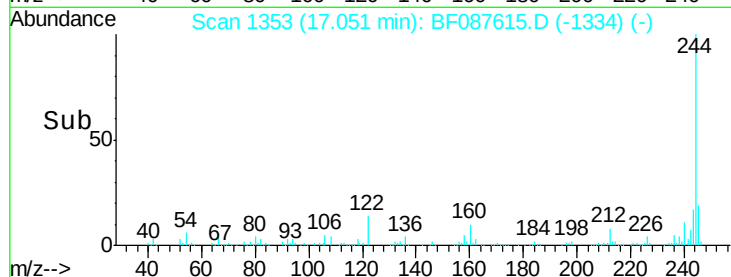
122 14.0 12.0 18.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 13.06 ng

RT: 18.41 min Scan# 1472

Delta R.T. -0.05 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

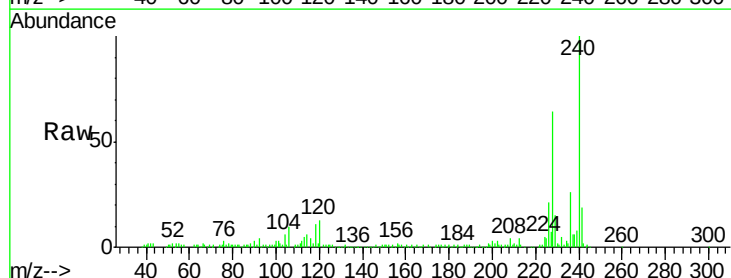
Tgt Ion:228 Resp: 156110

Ion Ratio Lower Upper

228 100

226 32.9 22.5 33.7

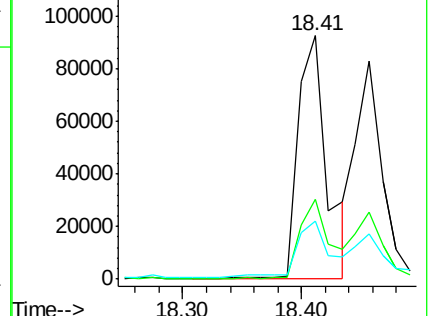
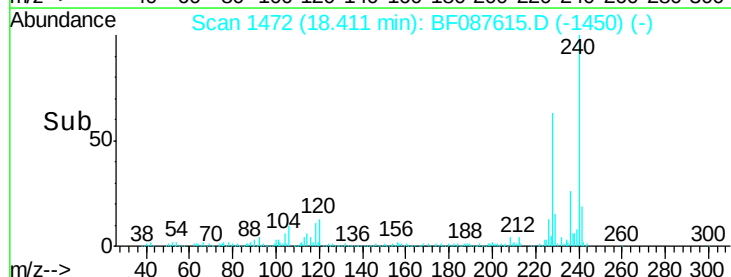
229 23.6 16.6 25.0

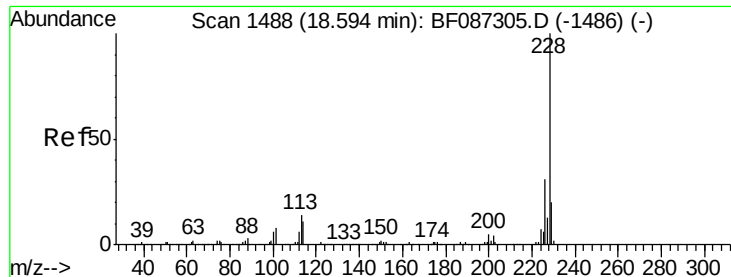


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.75 ng

RT: 18.46 min Scan# 1476

Delta R.T. -0.06 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

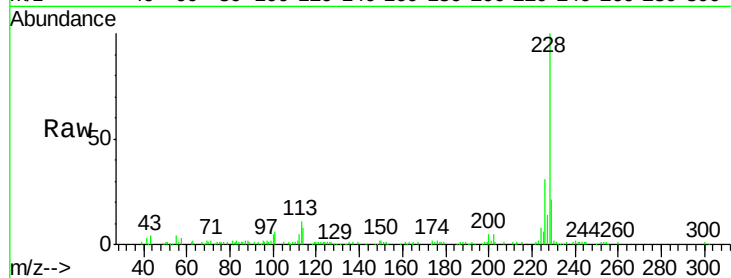
Tgt Ion:228 Resp: 127476

Ion Ratio Lower Upper

228 100

226 30.9 24.4 36.6

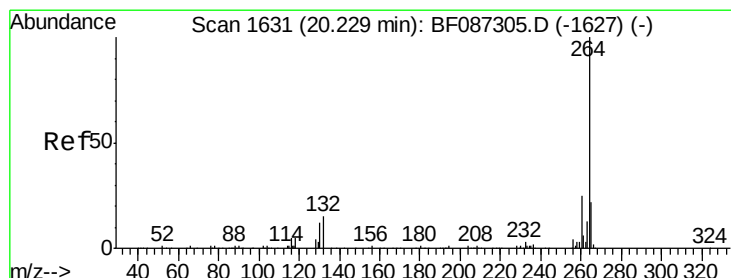
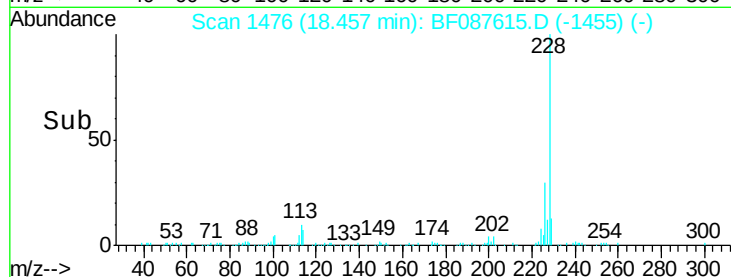
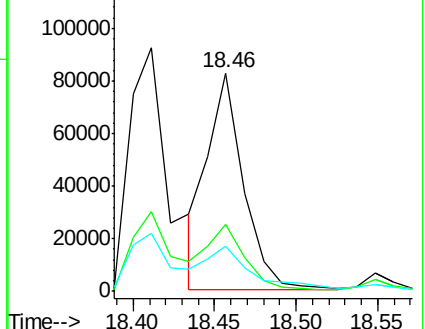
229 20.8 15.8 23.8



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.10 min Scan# 1620

Delta R.T. -0.03 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

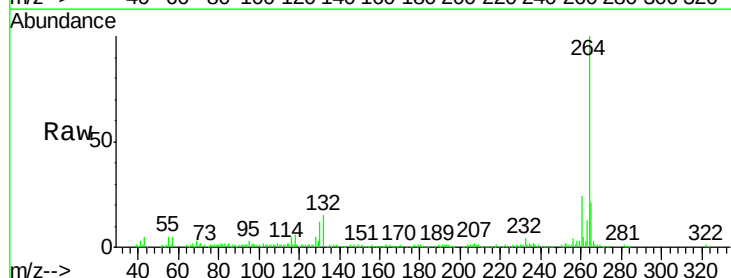
Tgt Ion:264 Resp: 178679

Ion Ratio Lower Upper

264 100

260 24.1 19.5 29.3

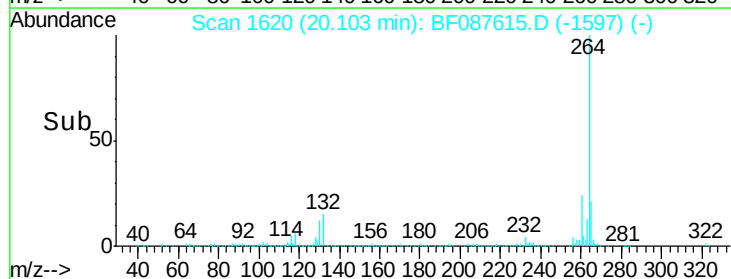
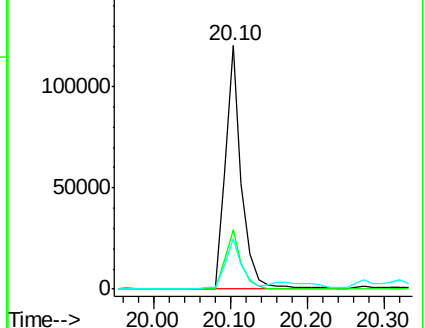
265 20.6 17.3 25.9

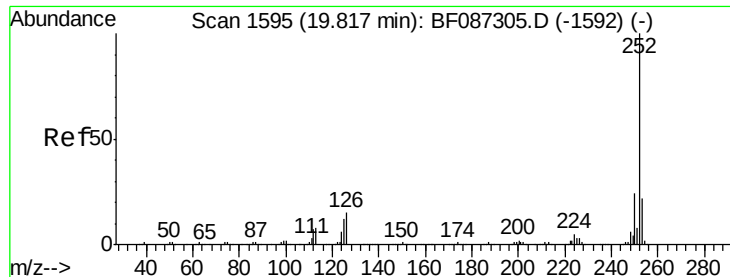


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 21.31 ng

RT: 19.69 min Scan# 1584

Delta R.T. -0.03 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

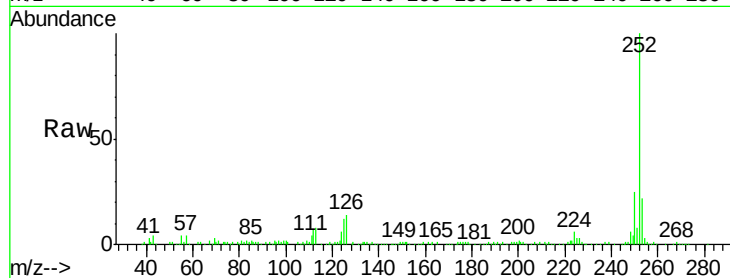
Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

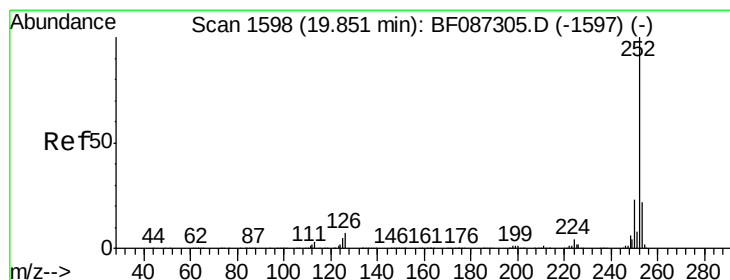
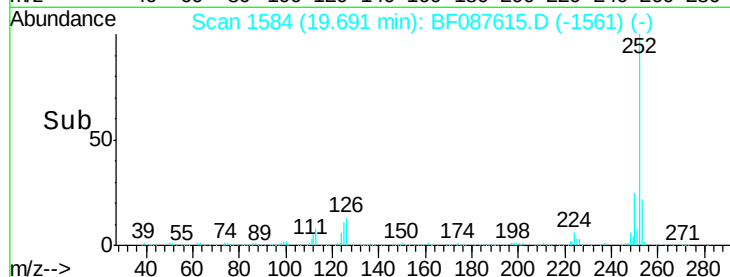
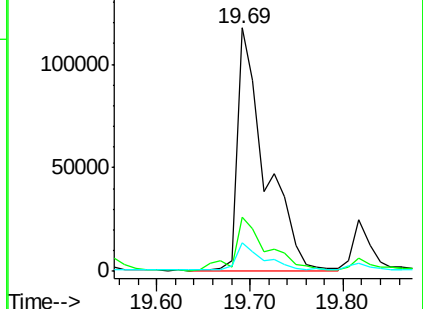
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 242505 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.8  | 26.6   |
| 125       | 11.6  | 11.4  | 17.0   |



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



#88

Benzo(k)fluoranthene

Concen: 24.75 ng

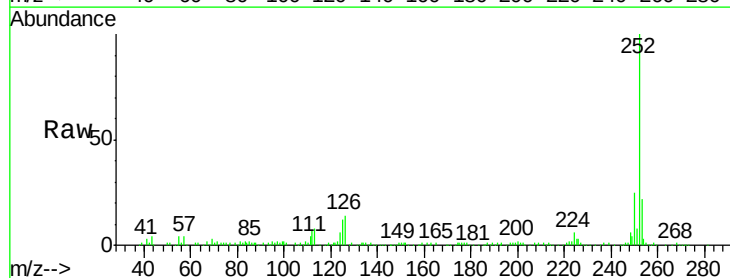
RT: 19.69 min Scan# 1584

Delta R.T. -0.07 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

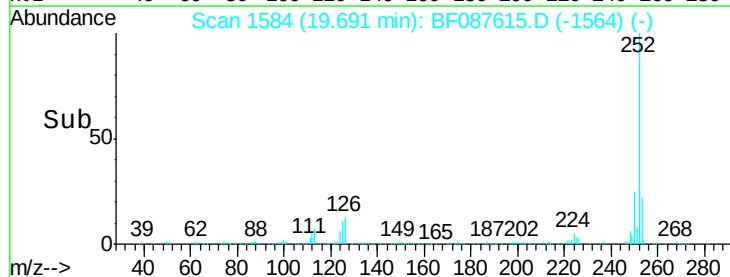
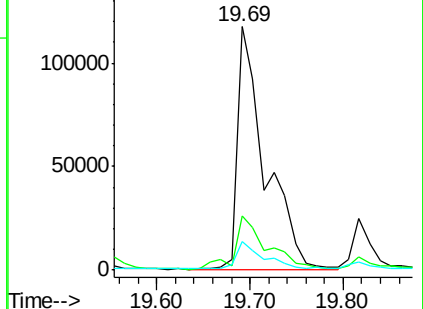
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 242505 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.0  | 17.8  | 26.6   |
| 125       | 11.6  | 9.1   | 13.7   |

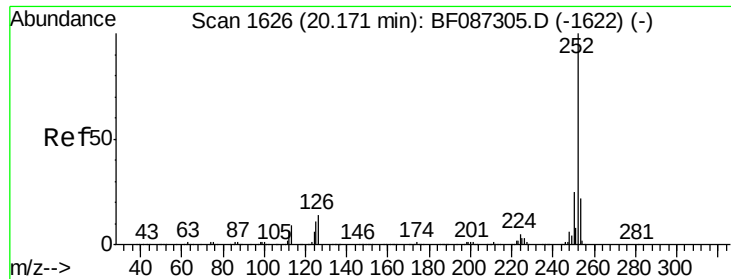


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 9.69 ng

RT: 20.06 min Scan# 1616

Delta R.T. -0.02 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1679(0-4)

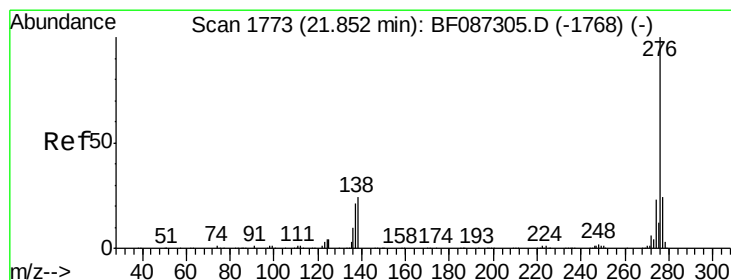
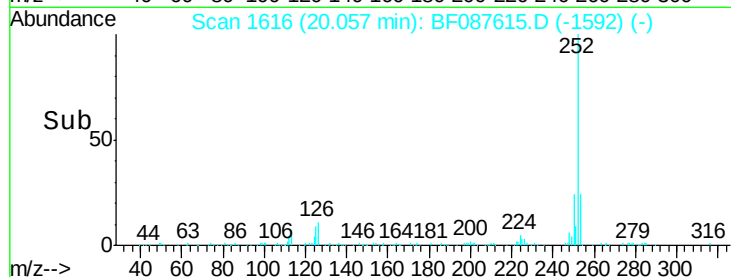
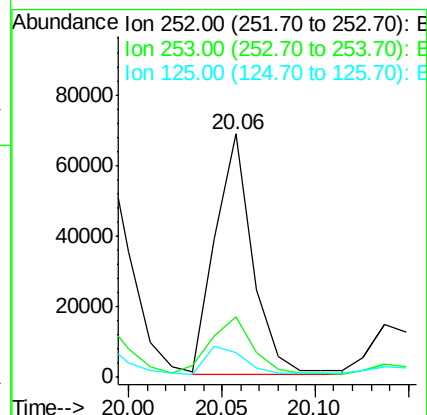
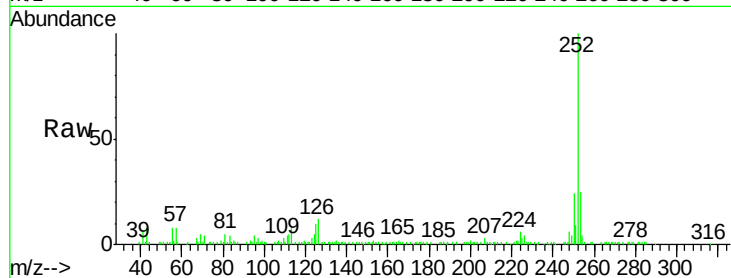
Tgt Ion:252 Resp: 95397

Ion Ratio Lower Upper

252 100

253 24.6 17.2 25.8

125 10.3 9.0 13.6



#91

Benzo(g,h,i)perylene

Concen: 5.40 ng

RT: 21.71 min Scan# 1761

Delta R.T. 0.00 min

Lab File: BF087615.D

Acq: 1 Jun 2016 10:35

Tgt Ion:276 Resp: 44740

Ion Ratio Lower Upper

276 100

277 24.6 19.6 29.4

138 24.3 23.6 35.4

