

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\  
 Data File : BF087472.D  
 Acq On : 28 May 2016 7:45  
 Operator : UM/SJ  
 Sample : H3190-19  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1685(0-4)

Manual Integrations  
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 5/31/2016 7:02:10 PM

Quant Time: May 30 01:09:27 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 30 00:59:34 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.48  | 152  | 110080   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 9.51  | 136  | 437535   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 12.34 | 164  | 189668   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 14.74 | 188  | 306287   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 18.45 | 240  | 220299   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 20.13 | 264  | 168136   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.39  | 112 | 854563  | 136.41 | ng | 0.01  |
| 7) Phenol-d6                | 7.04  | 99  | 1126890 | 133.12 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 8.40  | 82  | 746884  | 86.03  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol    | 13.63 | 330 | 203755  | 111.79 | ng | -0.01 |
| 44) 2-Fluorobiphenyl        | 11.29 | 172 | 1088154 | 80.88  | ng | -0.01 |
| 78) Terphenyl-d14           | 17.10 | 244 | 676691  | 65.30  | ng | -0.01 |

|                            |       |     |          |        |    |        |
|----------------------------|-------|-----|----------|--------|----|--------|
| Target Compounds           |       |     |          |        |    | Qvalue |
| 31) Naphthalene            | 9.54  | 128 | 78822    | 3.60   | ng | 98     |
| 37) 2-Methylnaphthalene    | 10.67 | 142 | 43030    | 3.14   | ng | 95     |
| 48) Acenaphthylene         | 12.11 | 152 | 400941   | 20.73  | ng | 98     |
| 49) Dimethylphthalate      | 11.99 | 163 | 214713   | 14.13  | ng | 99     |
| 51) Acenaphthene           | 12.39 | 154 | 29462    | 2.48   | ng | 94     |
| 54) Dibenzofuran           | 12.69 | 168 | 47617    | 2.96   | ng | 95     |
| 57) Fluorene               | 13.23 | 166 | 101616   | 7.28   | ng | 96     |
| 70) Phenanthrene           | 14.79 | 178 | 1232857  | 72.67  | ng | 99     |
| 71) Anthracene             | 14.87 | 178 | 289715   | 16.90  | ng | 98     |
| 72) Carbazole              | 15.17 | 167 | 104395   | 7.14   | ng | 99     |
| 74) Fluoranthene           | 16.56 | 202 | 2202281  | 129.45 | ng | 97     |
| 77) Pvrene                 | 16.87 | 202 | 2017425  | 127.22 | ng | 100    |
| 80) Benzo(a)anthracene     | 18.45 | 228 | 949791   | 75.80  | ng | 96     |
| 82) Chrysene               | 18.49 | 228 | 980641m  | 78.85  | ng |        |
| 85) Indeno(1,2,3-cd)pyrene | 21.35 | 276 | 337367   | 33.84  | ng | # 85   |
| 87) Benzo(b)fluoranthene   | 19.73 | 252 | 1089300m | 101.71 | ng |        |
| 88) Benzo(k)fluoranthene   | 19.75 | 252 | 269718m  | 29.26  | ng |        |
| 89) Benzo(a)pyrene         | 20.07 | 252 | 562738   | 60.75  | ng | 97     |
| 90) Dibenzo(a,h)anthracene | 21.35 | 278 | 83967m   | 10.63  | ng |        |
| 91) Benzo(a,h,i)perylene   | 21.70 | 276 | 298910   | 38.35  | ng | # 90   |

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

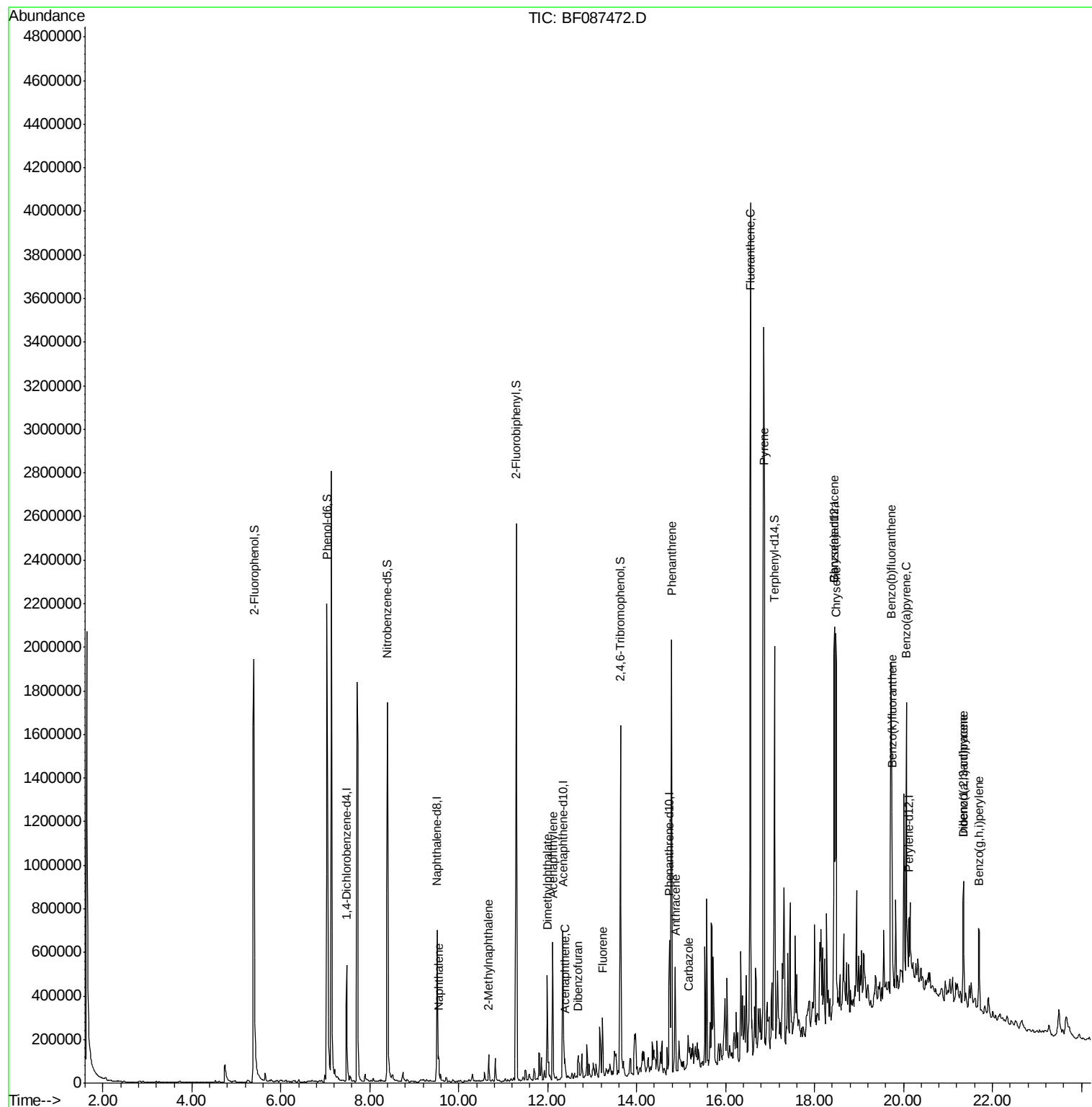
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052716\  
Data File : BF087472.D  
Acq On : 28 May 2016 7:45  
Operator : UM/SJ  
Sample : H3190-19  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

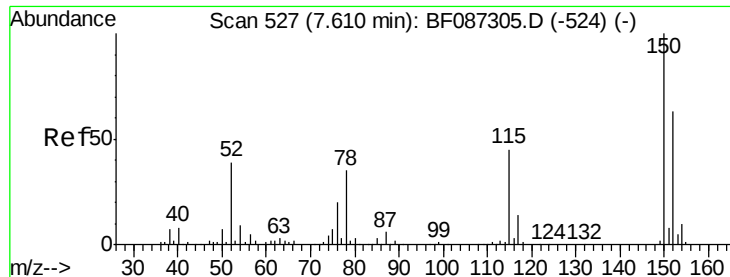
Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

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Quant Time: May 30 01:09:27 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 30 00:59:34 2016  
Response via : Initial Calibration





#1

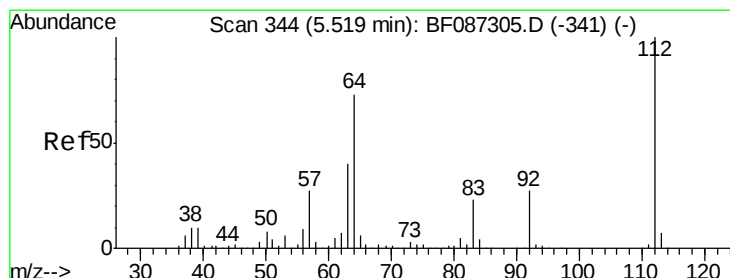
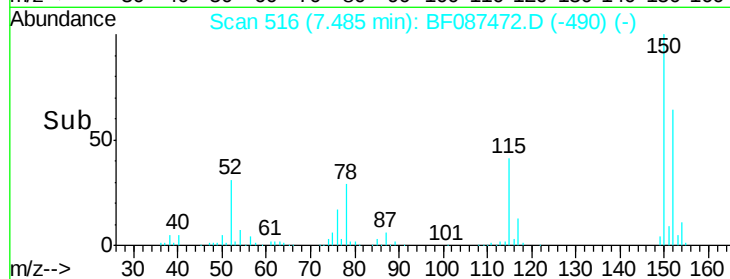
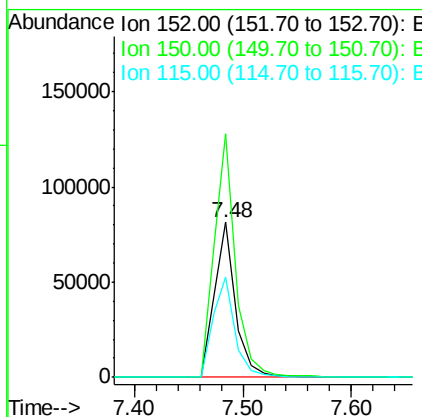
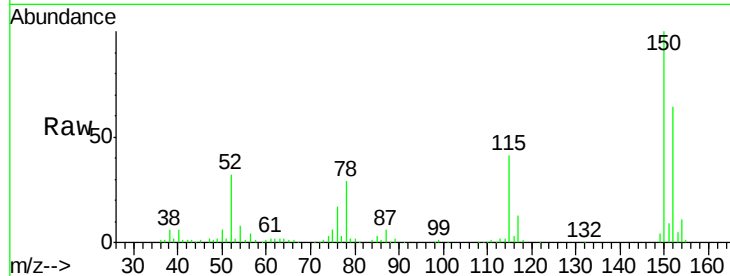
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.48 min Scan# 516  
Delta R.T. 0.00 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.8 | 125.8 | 188.6 |
| 115     | 64.3  | 51.5  | 77.3  |

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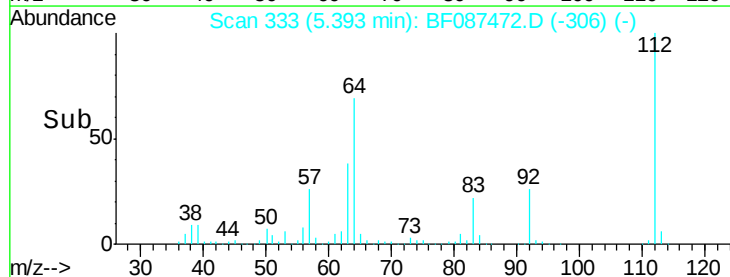
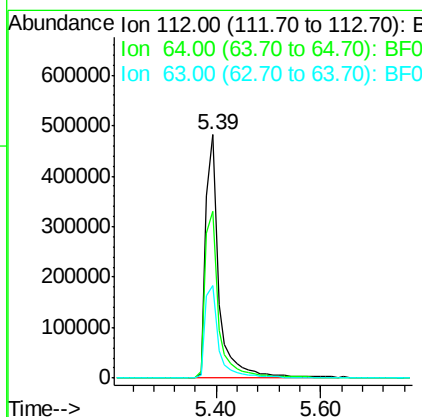
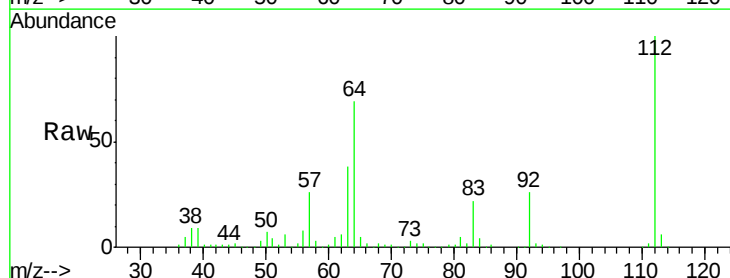
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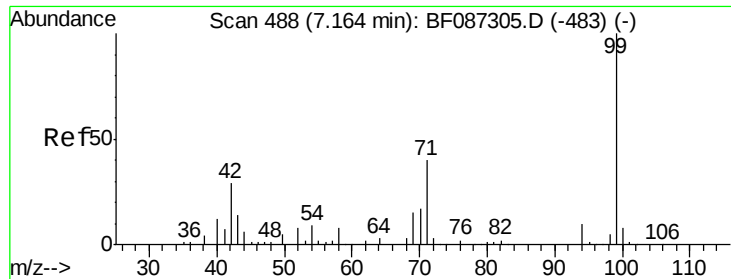


#5

2-Fluorophenol  
Concen: 136.41 ng  
RT: 5.39 min Scan# 333  
Delta R.T. 0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.7  | 52.1  | 78.1  |
| 63      | 38.1  | 25.7  | 38.5  |





#7

Phenol-d6

Concen: 133.12 ng

RT: 7.04 min Scan# 477

Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Instrument :

BNA\_F

ClientSampleId :

CHS-STA-1685(0-4)

Tot Ion: 99 Resp: 1126890

Ion Ratio Lower Upper

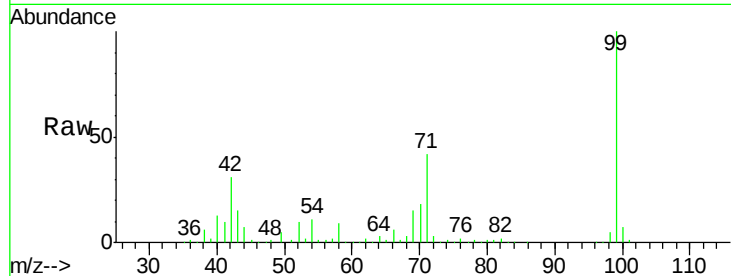
99 100

42 31.3 13.6 20.4#

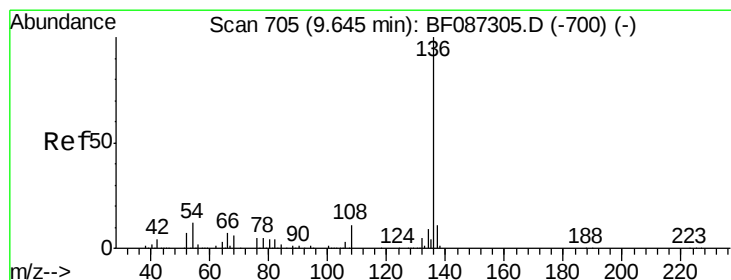
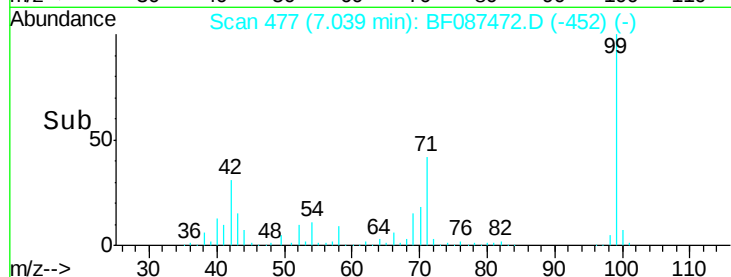
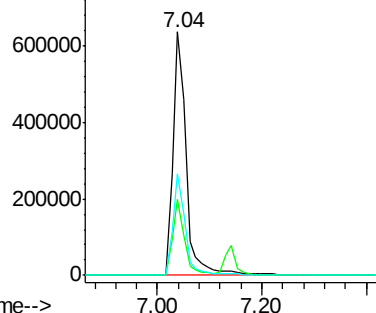
71 41.7 24.6 36.8#

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Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.51 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Tgt Ion: 136 Resp: 437535

Ion Ratio Lower Upper

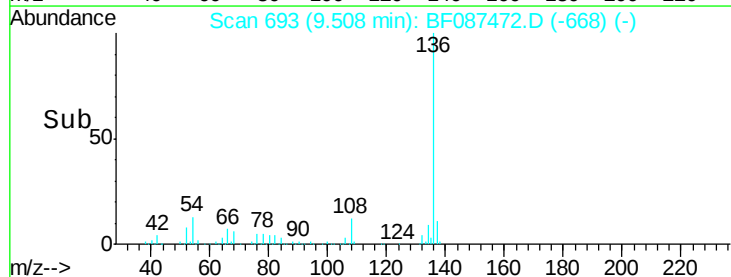
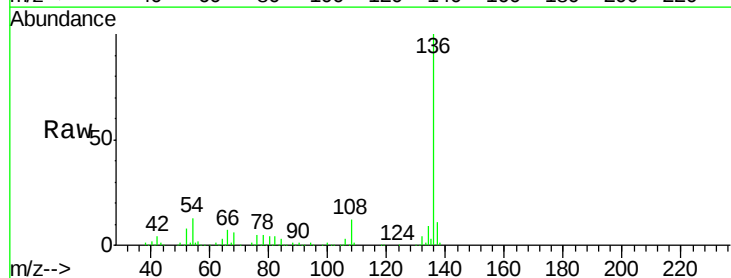
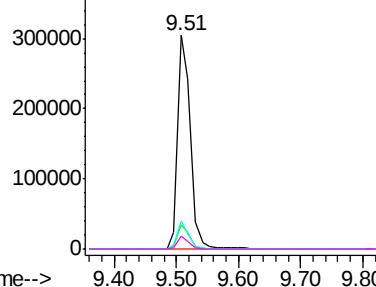
136 100

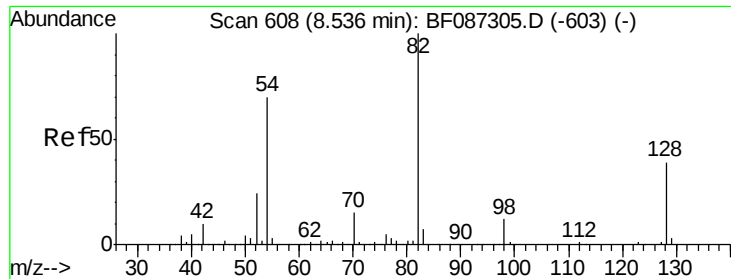
137 11.2 8.8 13.2

54 13.2 5.0 7.4#

68 6.1 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





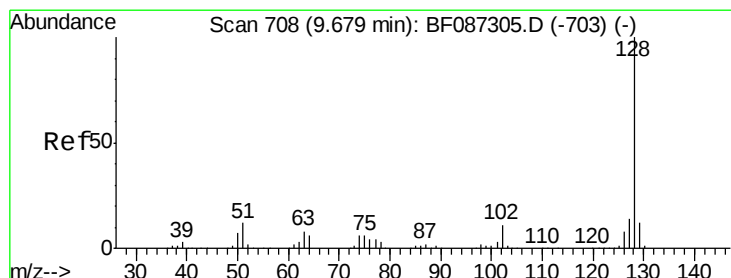
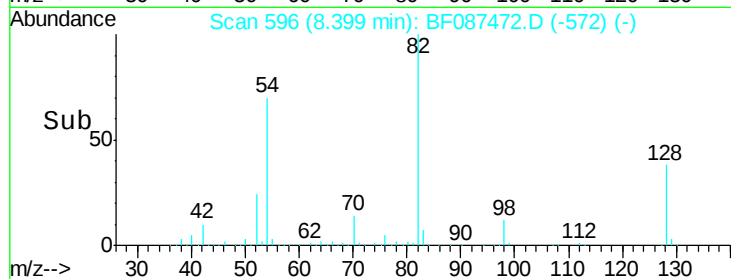
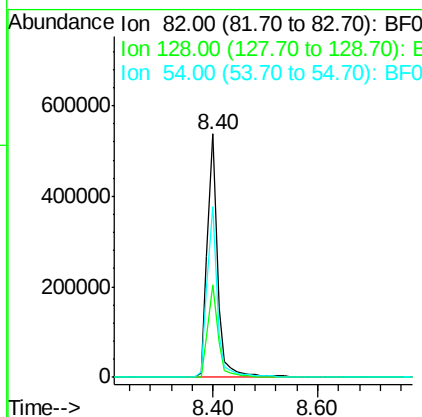
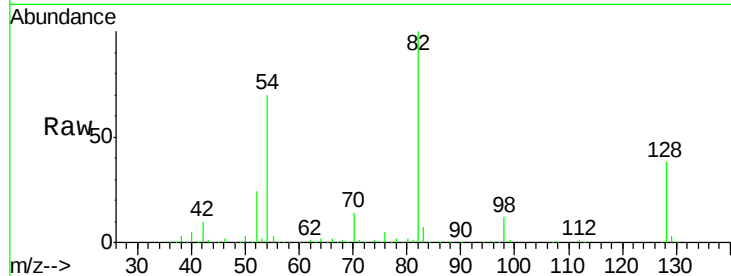
#23  
 Nitrobenzene-d5  
 Concen: 86.03 ng  
 RT: 8.40 min Scan# 596  
 Delta R.T. -0.02 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.1  | 40.6  | 61.0# |
| 54      | 70.3  | 38.1  | 57.1# |

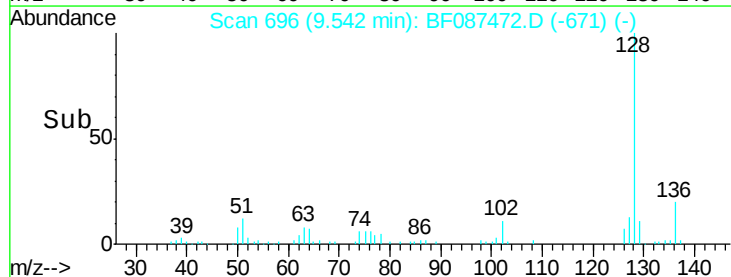
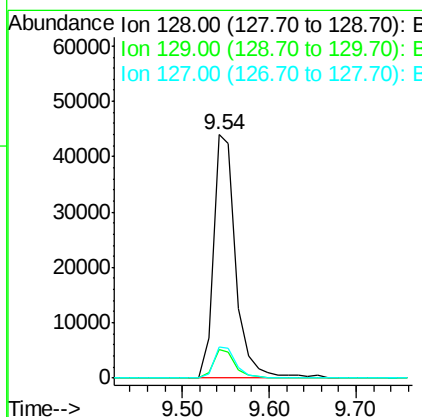
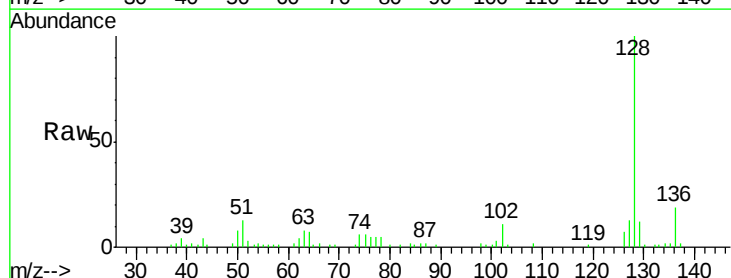
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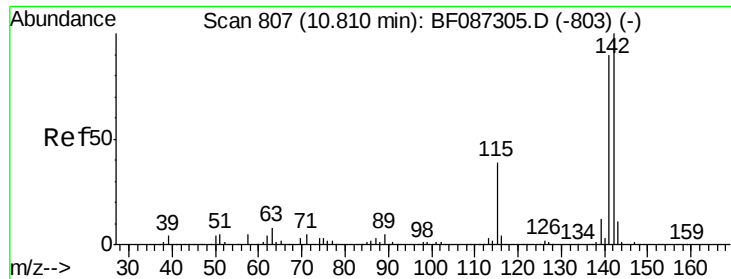
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#31  
 Naphthalene  
 Concen: 3.60 ng  
 RT: 9.54 min Scan# 696  
 Delta R.T. -0.01 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 8.6   | 13.0  |
| 127     | 12.5  | 10.8  | 16.2  |





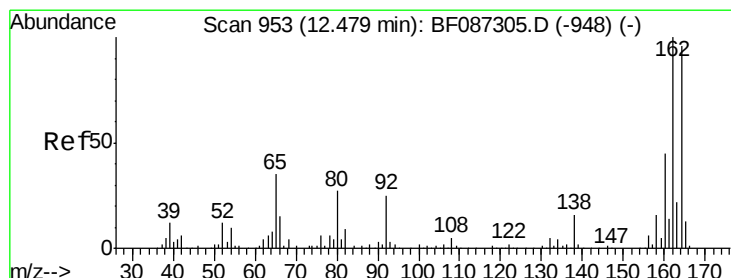
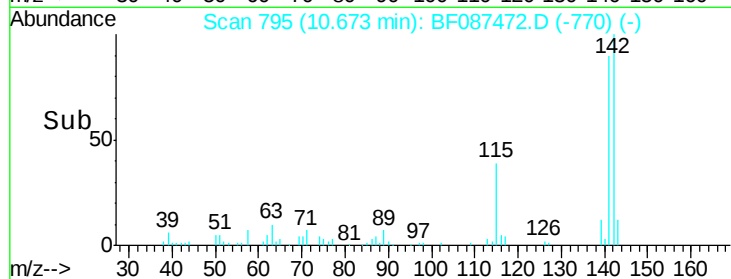
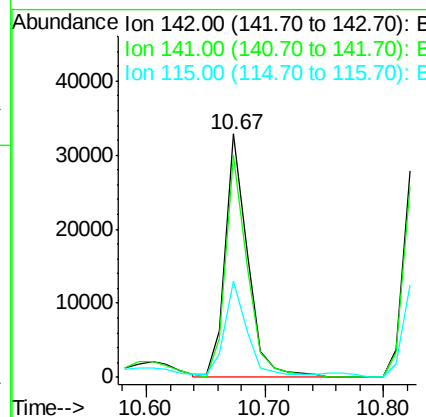
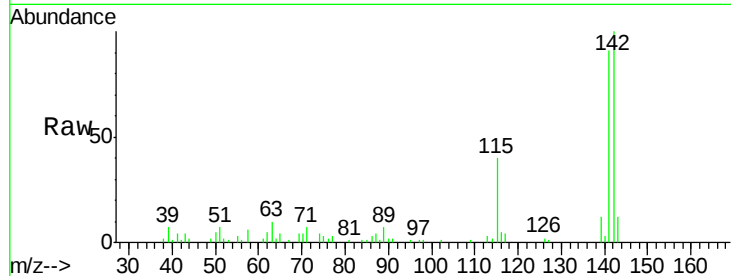
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2-Methylnaphthalene  
Concen: 3.14 ng  
RT: 10.67 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 91.2  | 71.0  | 106.6 |
| 115     | 39.6  | 26.6  | 39.8  |

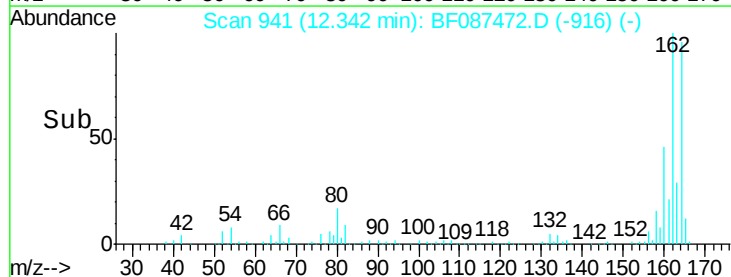
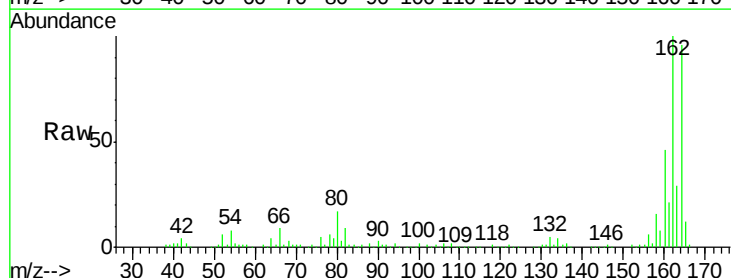
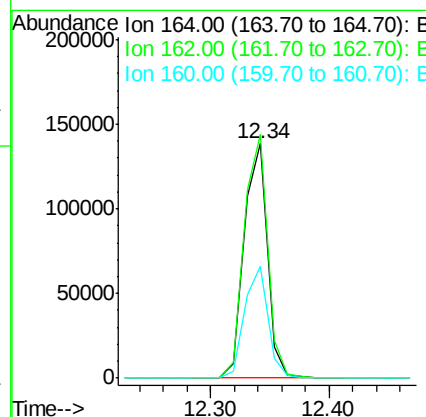
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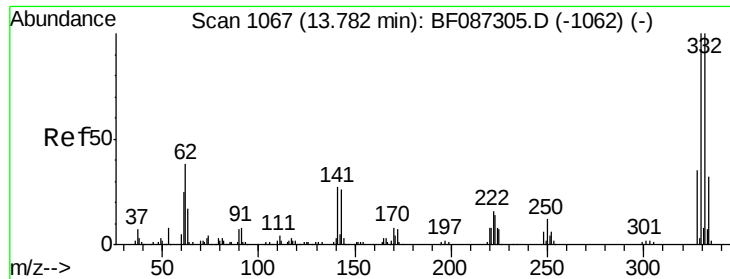
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.34 min Scan# 941  
Delta R.T. -0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.9 | 82.8  | 124.2 |
| 160     | 47.7  | 36.9  | 55.3  |





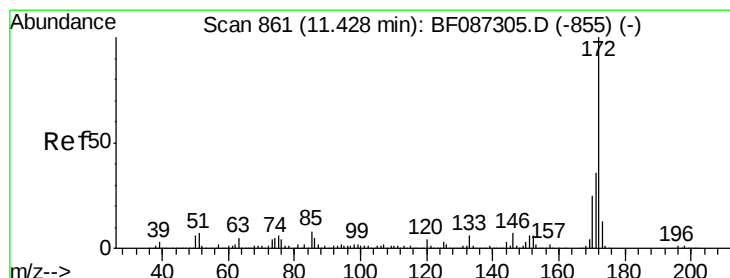
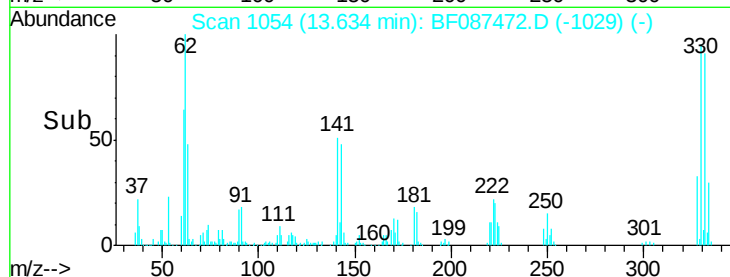
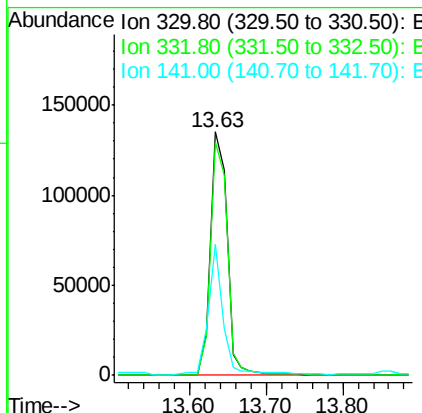
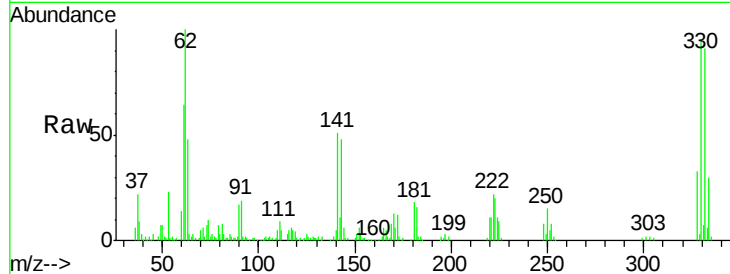
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 2,4,6-Tribromophenol  
 Concen: 111.79 ng  
 RT: 13.63 min Scan# 1054  
 Delta R.T. -0.01 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1685(0-4)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 203755 |       |       |
| 332     | 96.9  | 79.0   | 118.4 |       |
| 141     | 47.1  | 31.2   | 46.8  |       |

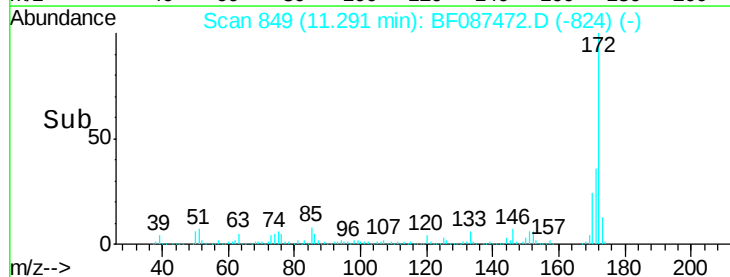
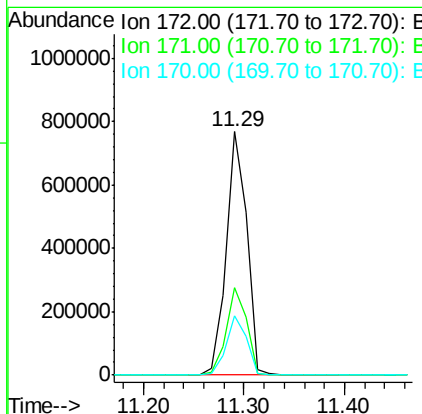
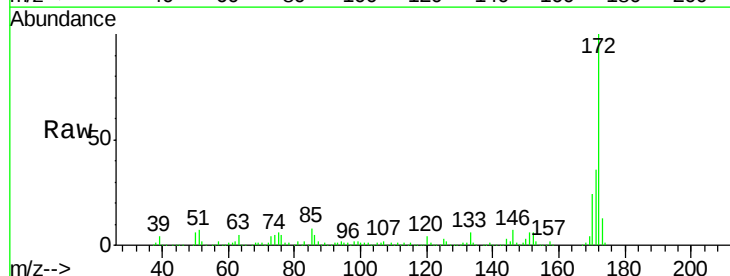
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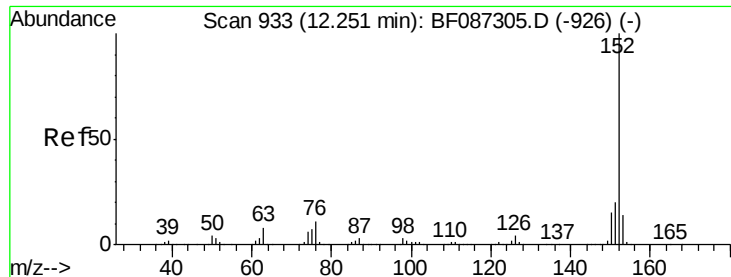
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#44  
 2-Fluorobiphenyl  
 Concen: 80.88 ng  
 RT: 11.29 min Scan# 849  
 Delta R.T. -0.01 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1088154 |       |       |
| 171     | 36.0  | 29.0    | 43.6  |       |
| 170     | 24.2  | 19.8    | 29.8  |       |





#48

Acenaphthylene

Concen: 20.73 ng

RT: 12.11 min Scan# 921

Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Instrument :

BNA\_F

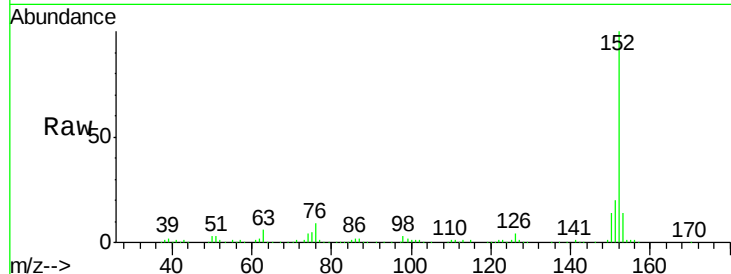
ClientSampleId :

CHS-STA-1685(0-4)

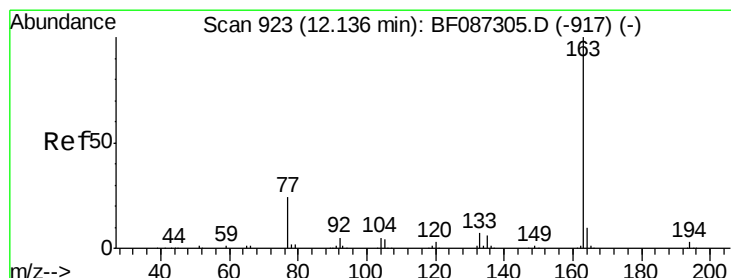
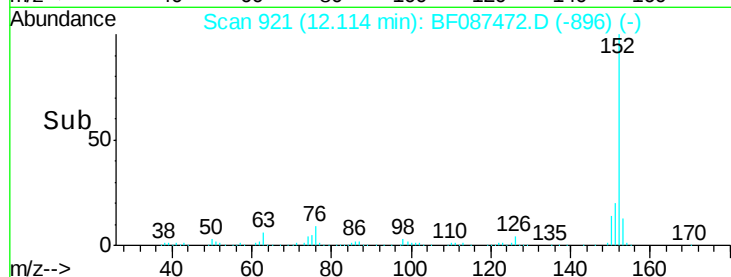
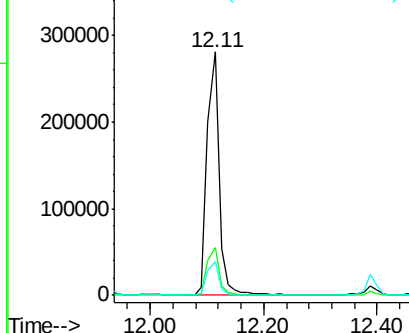
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 400941 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.6  | 16.8  | 25.2   |
| 153       | 13.6  | 10.9  | 16.3   |

Manual Integrations  
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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



#49

Dimethylphthalate

Concen: 14.13 ng

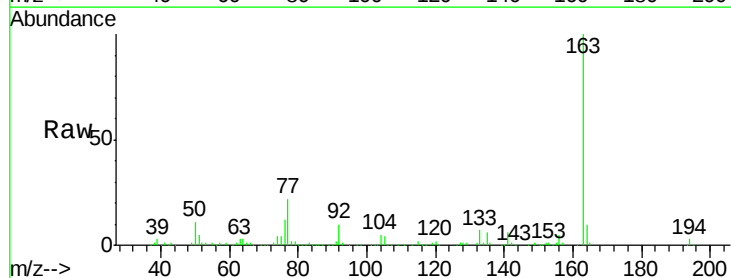
RT: 11.99 min Scan# 910

Delta R.T. -0.02 min

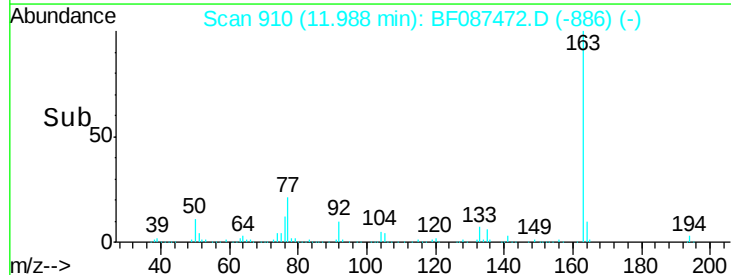
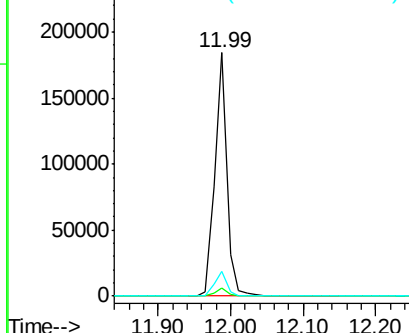
Lab File: BF087472.D

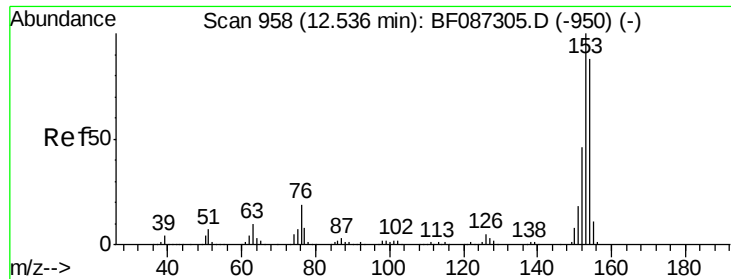
Acq: 28 May 2016 7:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 214713 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.1   | 2.6   | 4.0    |
| 164       | 10.0  | 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





#51

Acenaphthene

Concen: 2.48 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.02 min

Lab File: BF087472.D

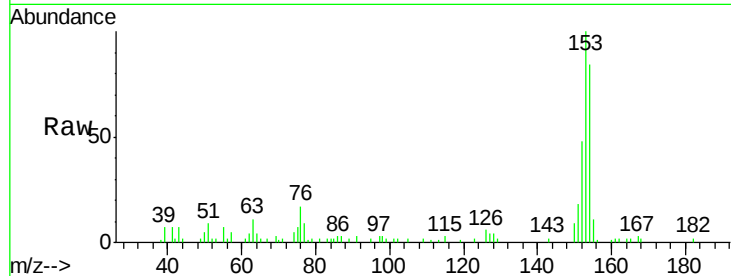
Acq: 28 May 2016 7:45

Instrument :

BNA\_F

ClientSampleId :

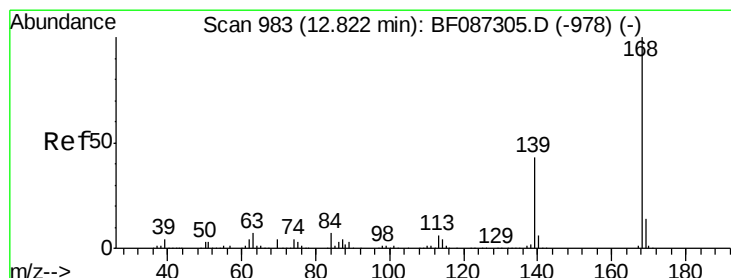
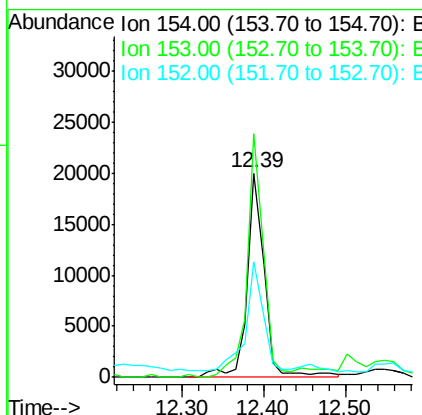
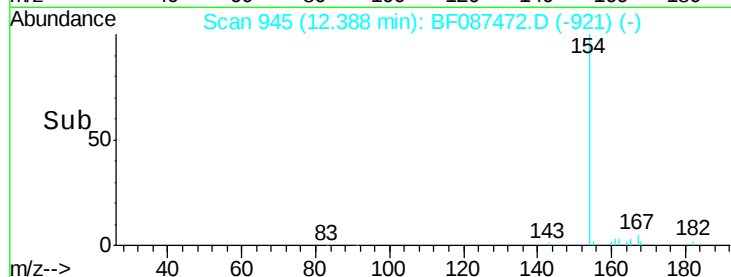
CHS-STA-1685(0-4)



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 29462 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 119.4 | 89.8  | 134.6 |
| 152       | 56.9  | 43.4  | 65.0  |

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#54

Dibenzofuran

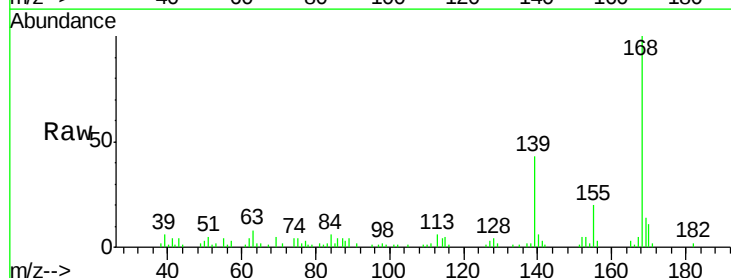
Concen: 2.96 ng

RT: 12.69 min Scan# 971

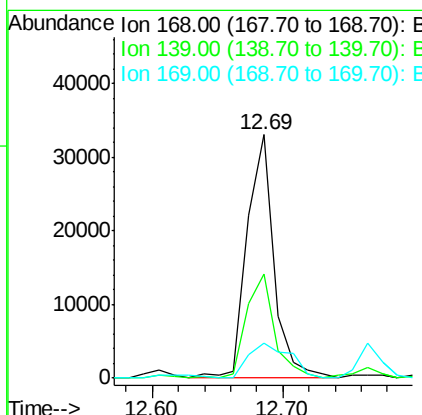
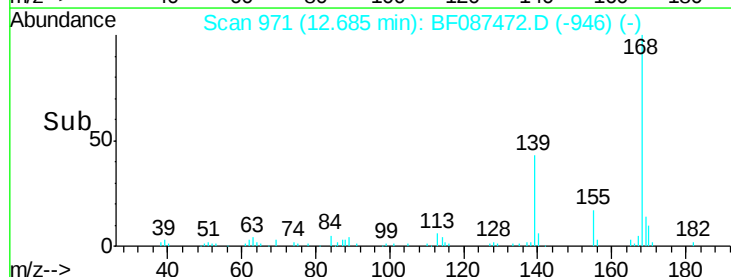
Delta R.T. -0.01 min

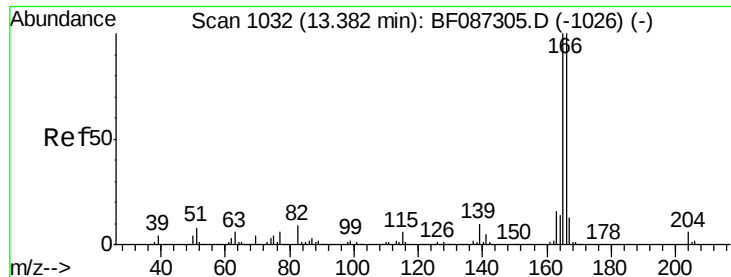
Lab File: BF087472.D

Acq: 28 May 2016 7:45



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 47617 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 42.6  | 31.4  | 47.0  |
| 169       | 14.5  | 10.7  | 16.1  |





#57

Fluorene

Concen: 7.28 ng

RT: 13.23 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Instrument :

BNA\_F

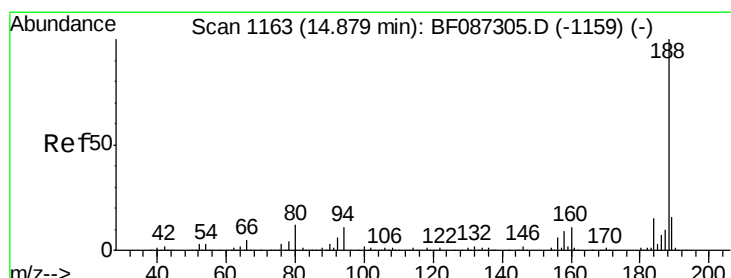
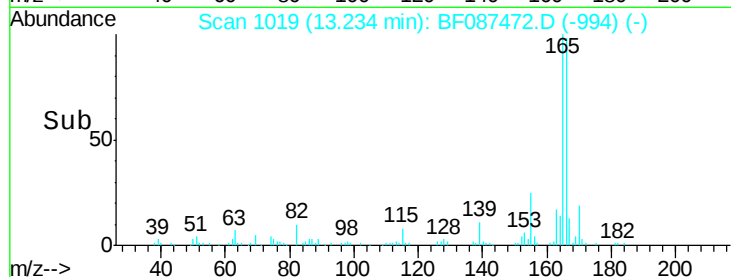
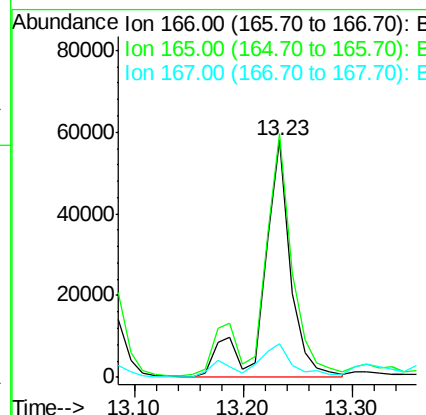
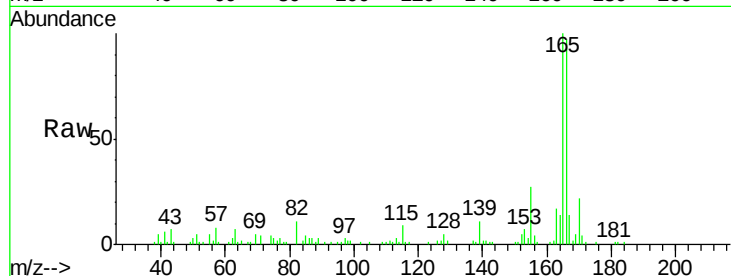
ClientSampleId :

CHS-STA-1685(0-4)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 166   | Resp: | 101616 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 102.8 | 79.0  | 118.6  |
| 167       | 14.1  | 10.6  | 15.8   |

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#63

Phenanthrene-d10

Concen: 20.00 ng

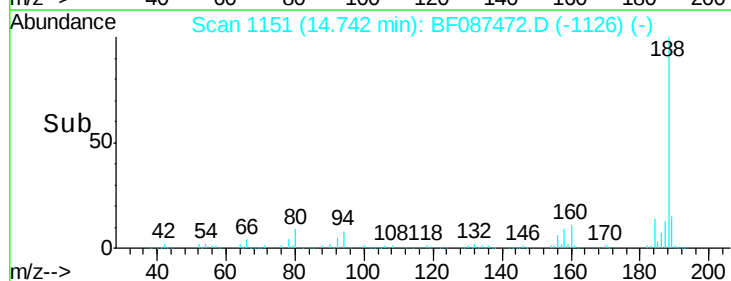
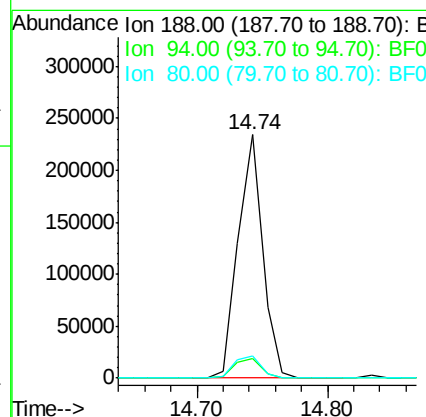
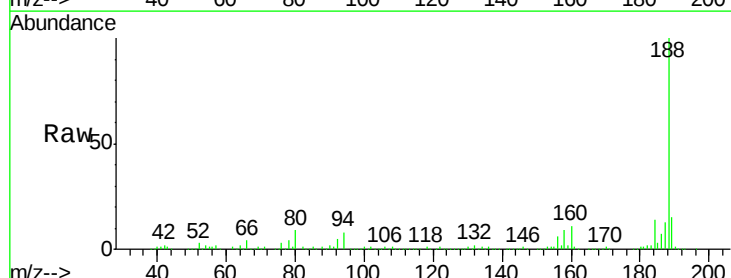
RT: 14.74 min Scan# 1151

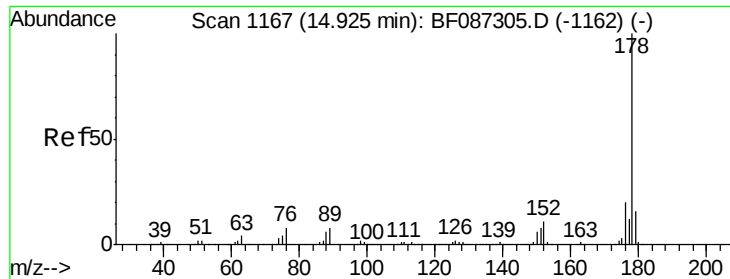
Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 306287 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.2   | 6.8   | 10.2   |
| 80        | 9.3   | 7.1   | 10.7   |





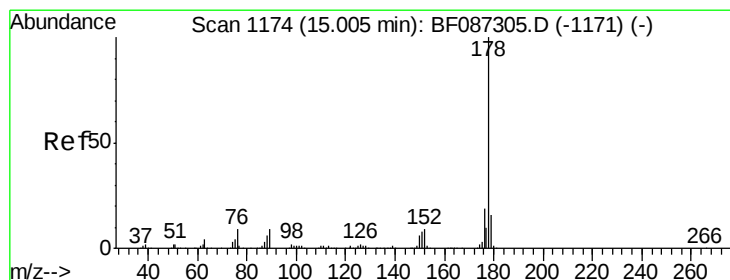
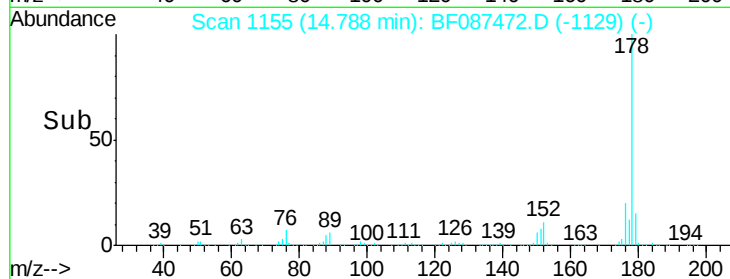
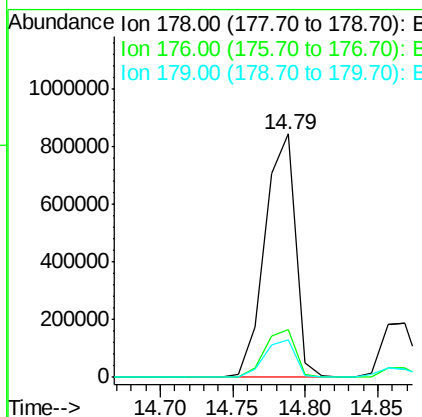
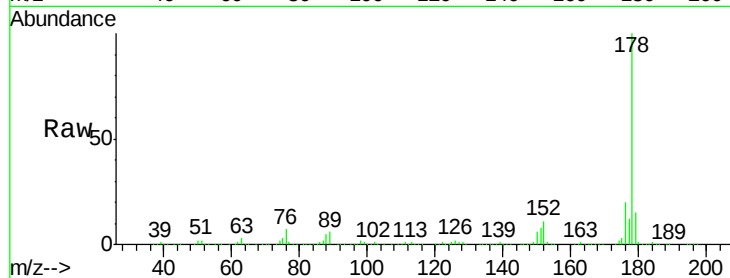
#70  
Phenanthrene  
Concen: 72.67 ng  
RT: 14.79 min Scan# 1155  
Delta R.T. 0.00 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.8  | 16.0  | 24.0  |
| 179     | 15.4  | 12.6  | 18.8  |

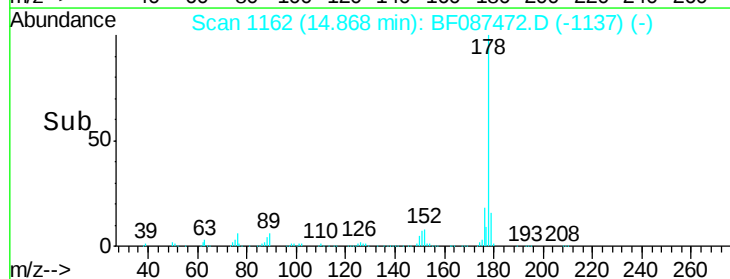
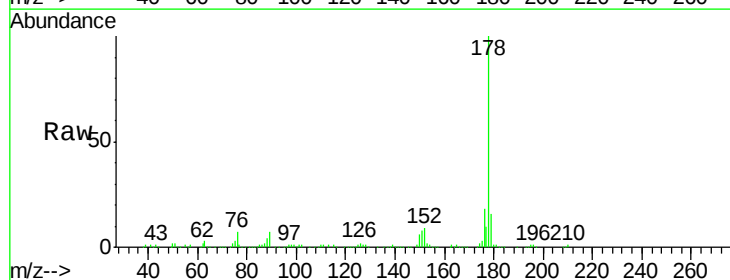
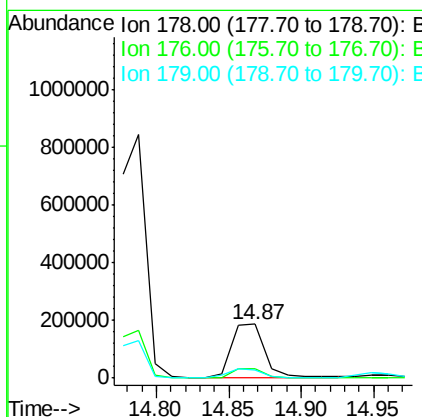
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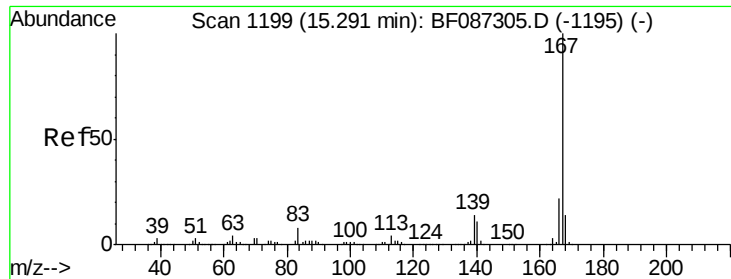
umangi  
5/31/2016 7:02:10 PM



#71  
Anthracene  
Concen: 16.90 ng  
RT: 14.87 min Scan# 1162  
Delta R.T. -0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 15.6  | 23.4  |
| 179     | 16.0  | 12.7  | 19.1  |





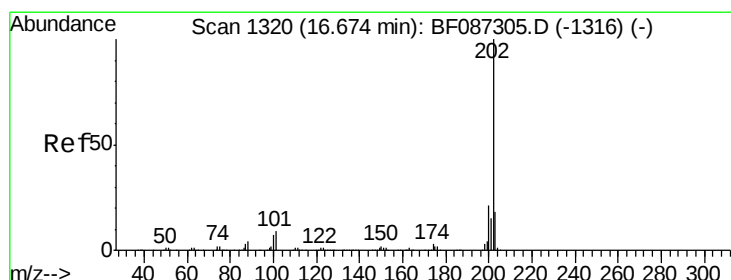
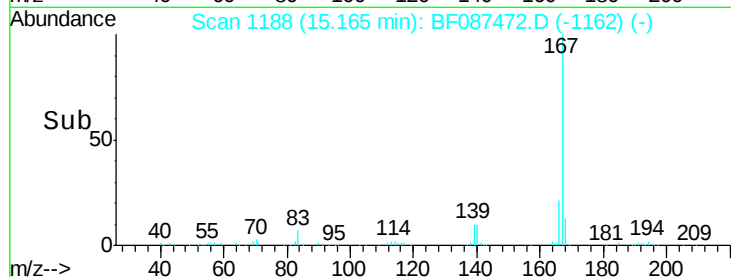
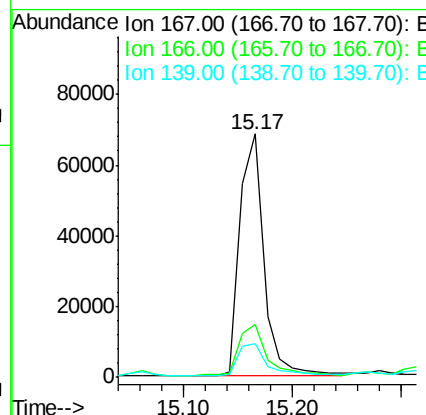
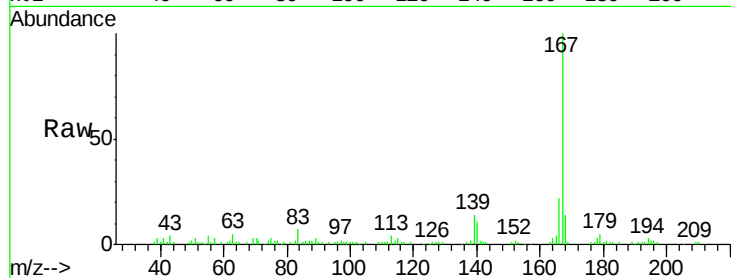
#72  
 Carbazole  
 Concen: 7.14 ng  
 RT: 15.17 min Scan# 1188  
 Delta R.T. 0.00 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.9  | 17.7  | 26.5  |
| 139     | 13.9  | 10.8  | 16.2  |

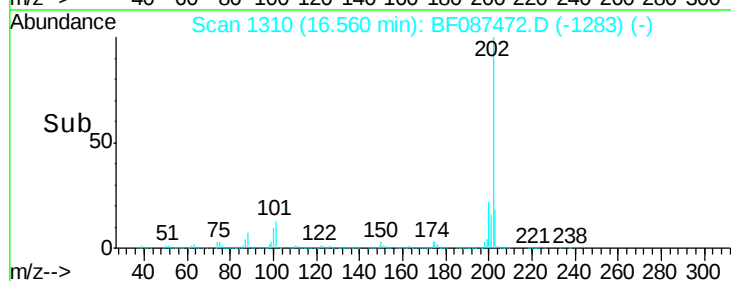
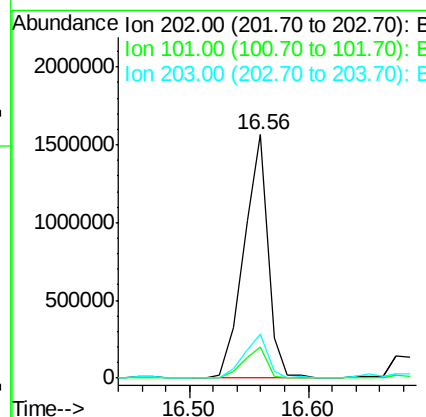
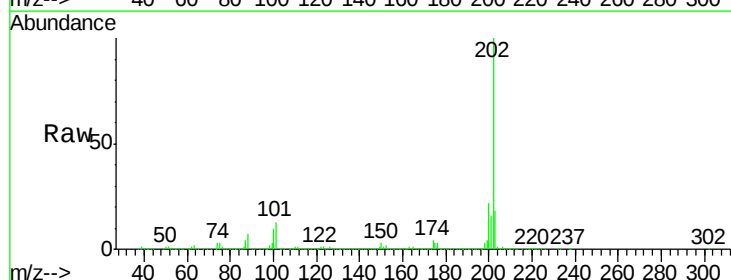
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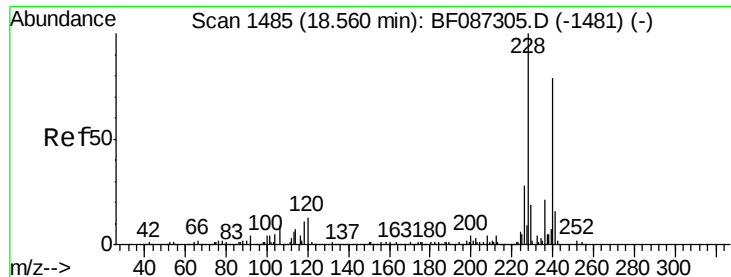
umangi  
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#74  
 Fluoranthene  
 Concen: 129.45 ng  
 RT: 16.56 min Scan# 1310  
 Delta R.T. 0.01 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 0.0   | 35.4  |
| 203     | 18.2  | 0.0   | 38.1  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.45 min Scan# 1475

Delta R.T. -0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Instrument :

BNA\_F

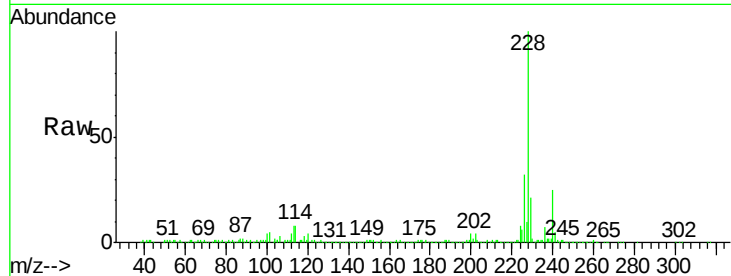
ClientSampleId :

CHS-STA-1685(0-4)

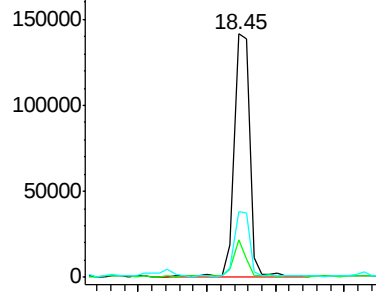
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 220299 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.4  | 11.2  | 16.8   |
| 236       | 26.7  | 21.2  | 31.8   |

Manual Integrations  
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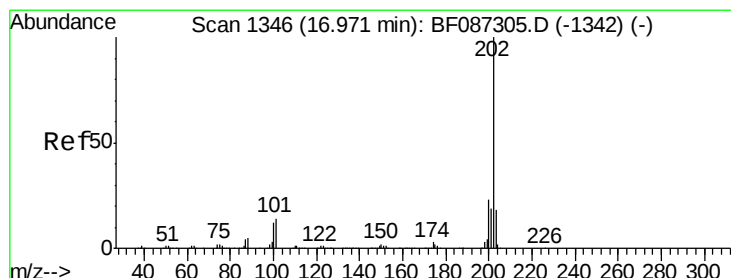
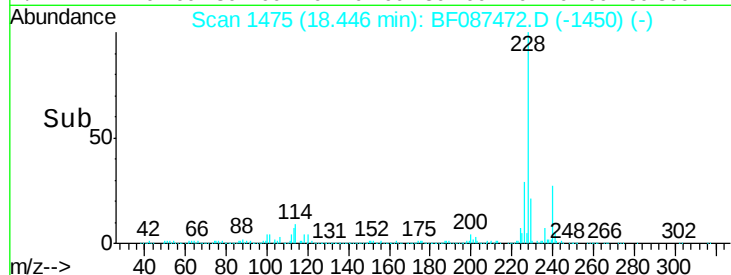
umangi  
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Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



Time-->



#77

Pyrene

Concen: 127.22 ng

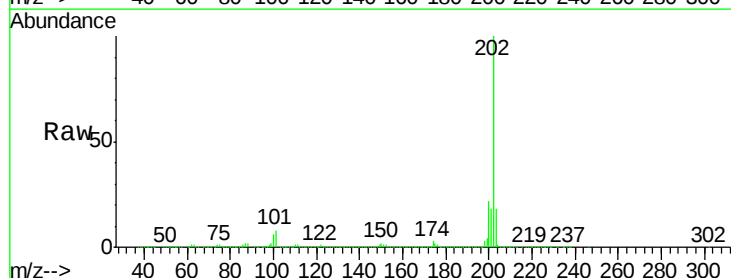
RT: 16.87 min Scan# 1337

Delta R.T. 0.01 min

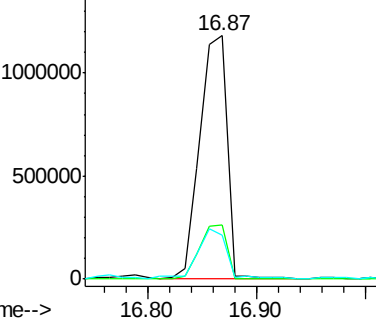
Lab File: BF087472.D

Acq: 28 May 2016 7:45

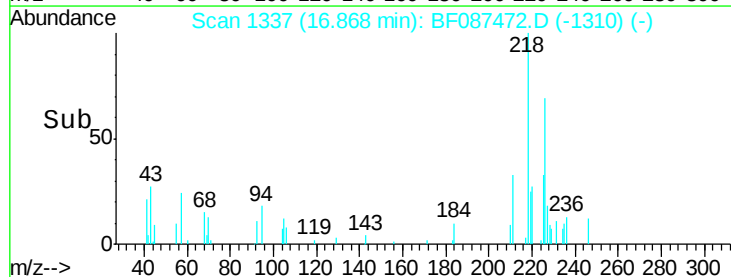
|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2017425 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 22.2  | 17.7  | 26.5    |
| 203       | 17.9  | 14.2  | 21.4    |

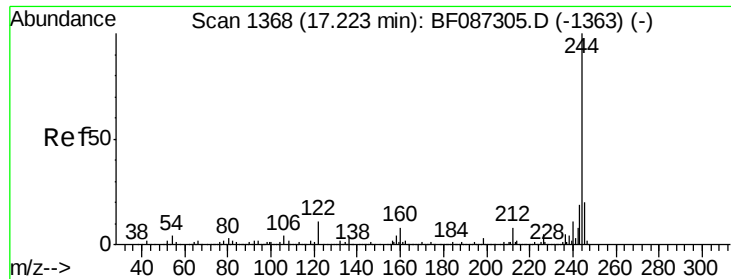


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



Time-->





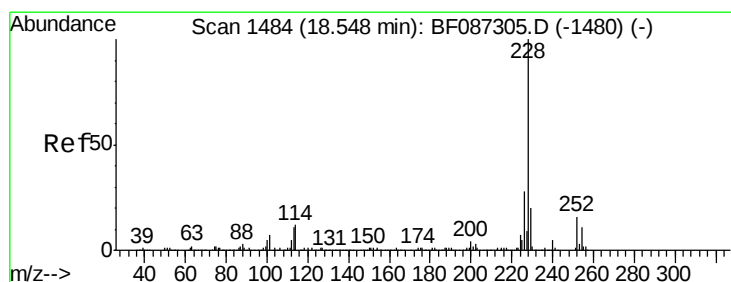
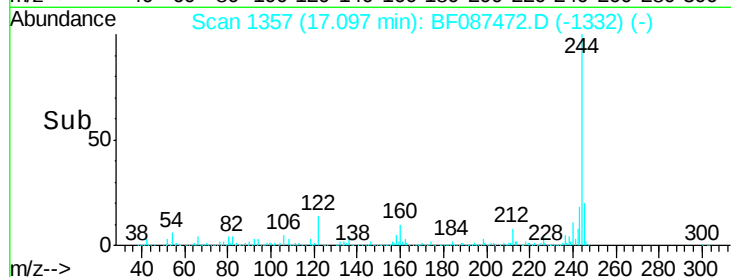
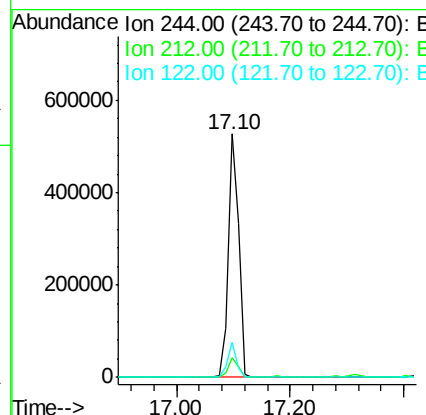
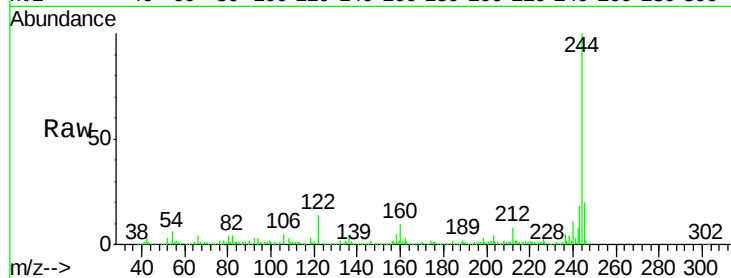
#78  
 Terphenyl-d14  
 Concen: 65.30 ng  
 RT: 17.10 min Scan# 1357  
 Delta R.T. -0.01 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHS-STA-1685(0-4)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 676691 |       |       |
| 212     | 8.2   |        | 6.2   | 9.2   |
| 122     | 14.3  |        | 12.0  | 18.0  |

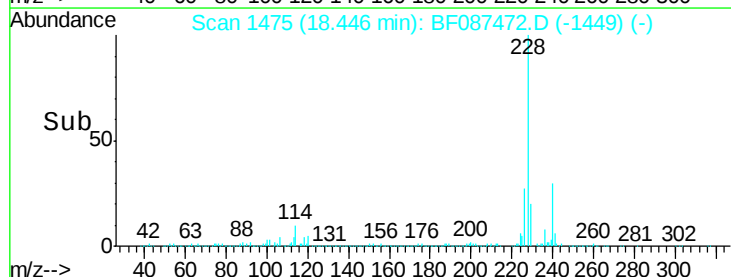
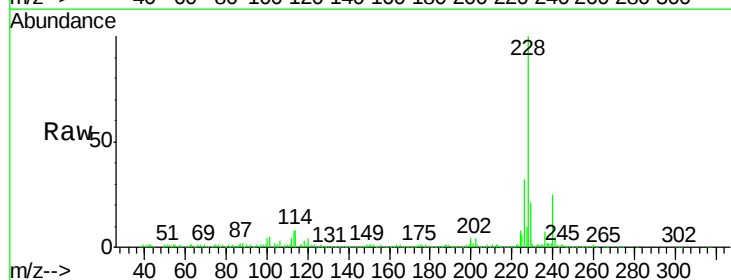
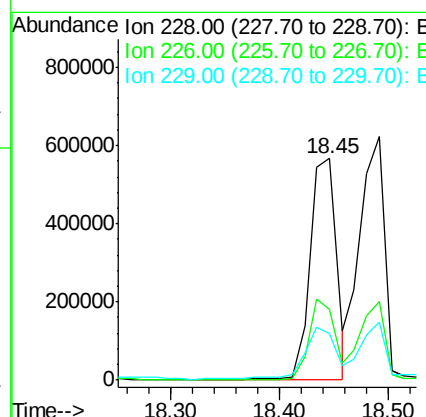
Manual Integrations  
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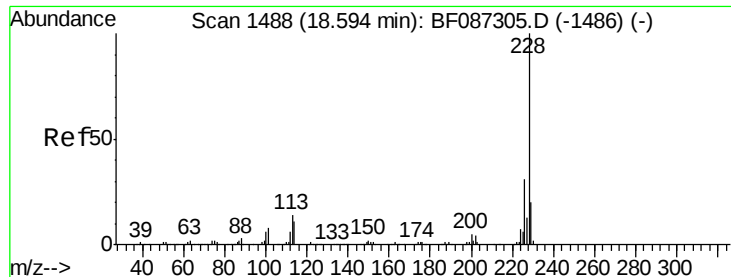
umangi  
 5/31/2016 7:02:10 PM



#80  
 Benzo(a)anthracene  
 Concen: 75.80 ng  
 RT: 18.45 min Scan# 1475  
 Delta R.T. 0.00 min  
 Lab File: BF087472.D  
 Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 949791 |       |       |
| 226     | 32.0  |        | 22.5  | 33.7  |
| 229     | 21.0  |        | 16.6  | 25.0  |





#82

Chrysene

Concen: 78.85 ng/mL

RT: 18.49 min Scan# 1479

Delta R.T. 0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

Instrument :

BNA\_F

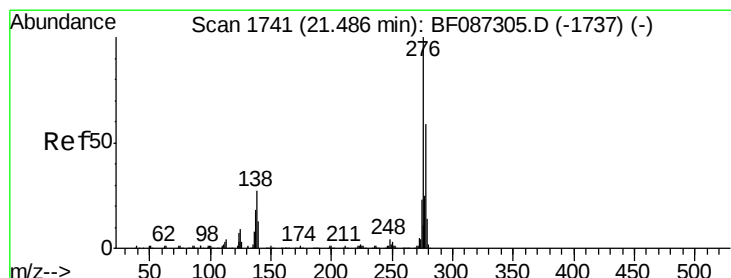
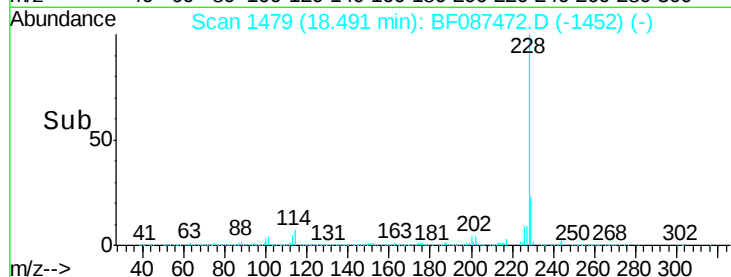
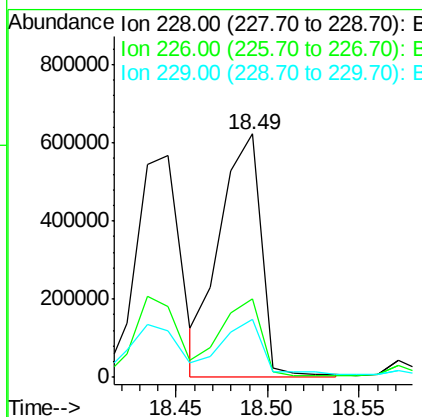
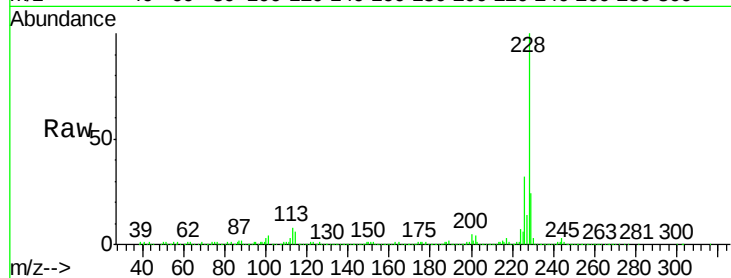
ClientSampleId :

CHS-STA-1685(0-4)

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 980641 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 32.1 | 24.4  | 36.6   |
| 229       | 23.6 | 15.8  | 23.8   |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 33.84 ng/mL

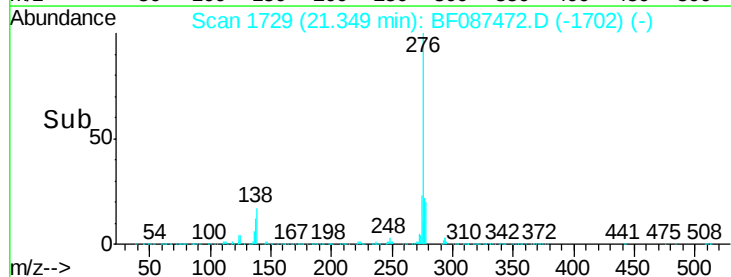
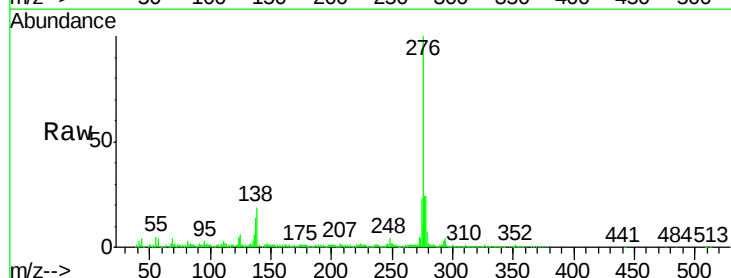
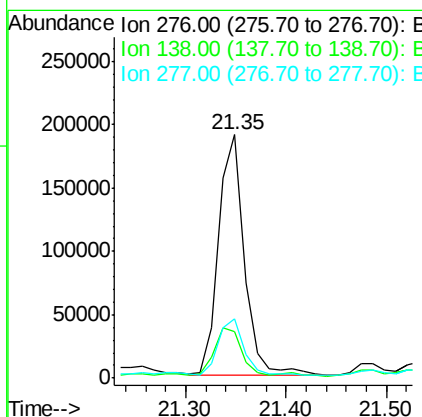
RT: 21.35 min Scan# 1729

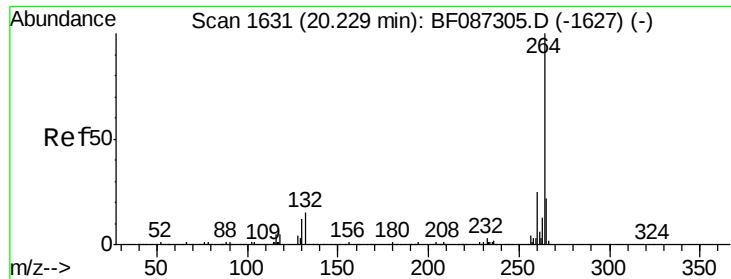
Delta R.T. 0.01 min

Lab File: BF087472.D

Acq: 28 May 2016 7:45

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 276  | Resp: | 337367 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 20.1 | 25.6  | 38.4#  |
| 277       | 22.3 | 20.5  | 30.7   |





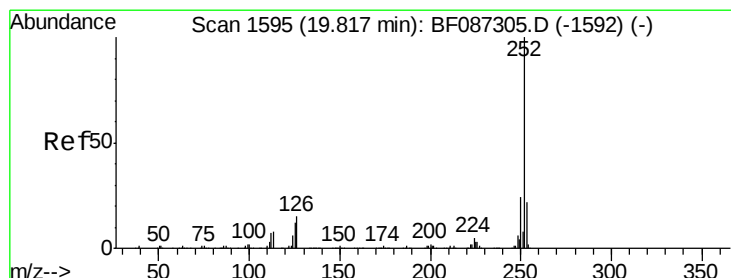
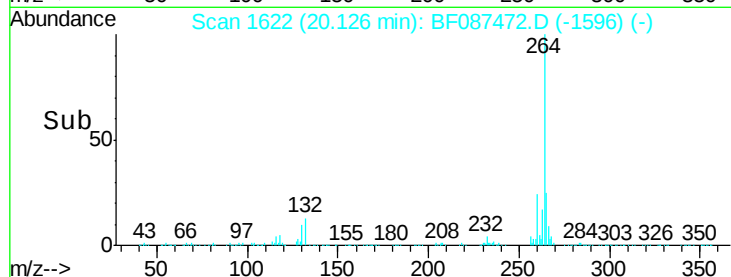
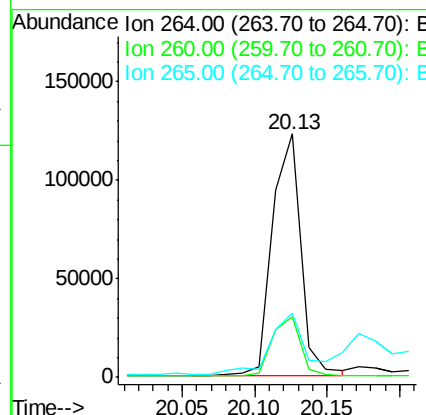
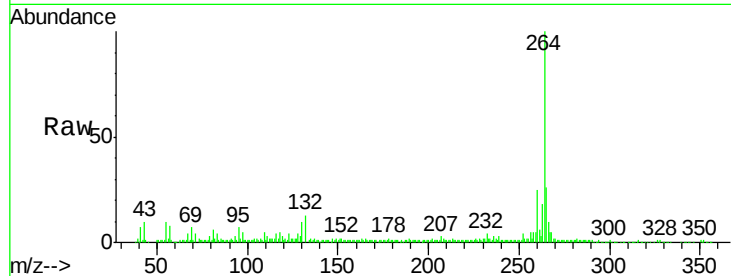
#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 20.13 min Scan# 1622  
Delta R.T. 0.00 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.5  | 29.3  |
| 265     | 26.4  | 17.3  | 25.9  |

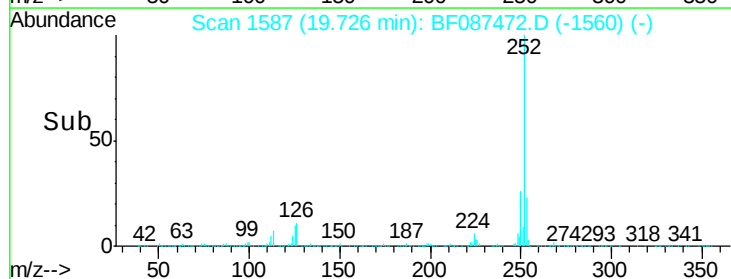
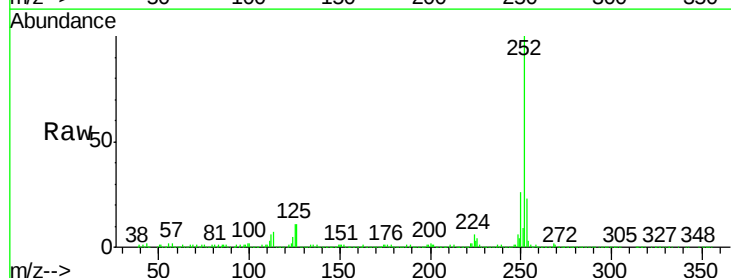
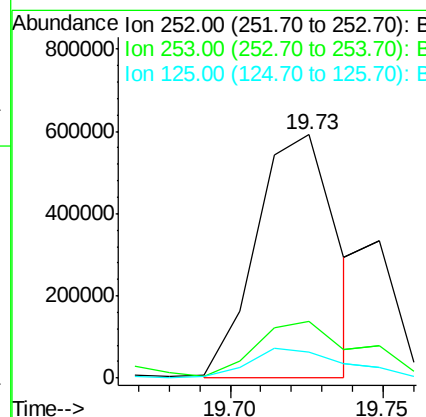
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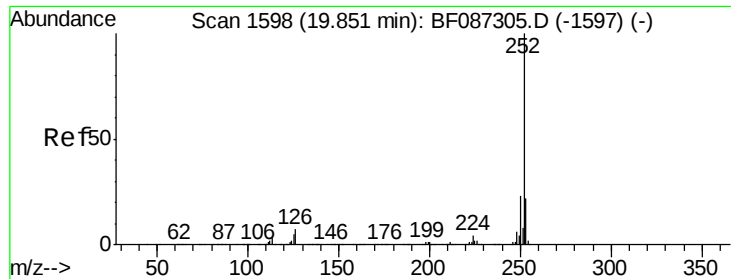
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#87  
Benzo(b)fluoranthene  
Concen: 101.71 ng m  
RT: 19.73 min Scan# 1587  
Delta R.T. 0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.8  | 26.6  |
| 125     | 10.6  | 11.4  | 17.0  |





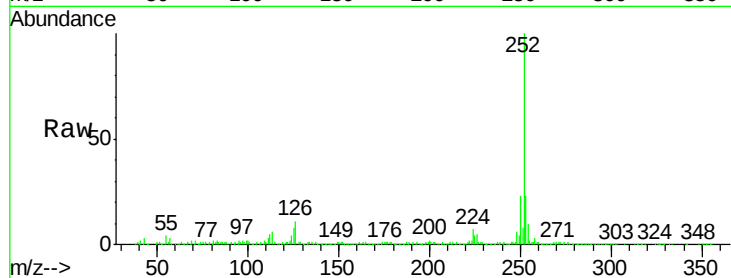
#88  
Benzo(k)fluoranthene  
Concen: 29.26 ng m  
RT: 19.75 min Scan# 1589  
Delta R.T. 0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

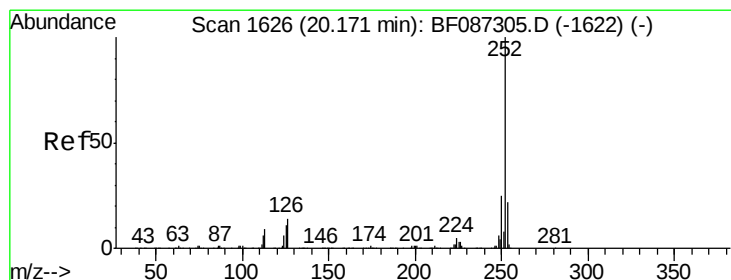
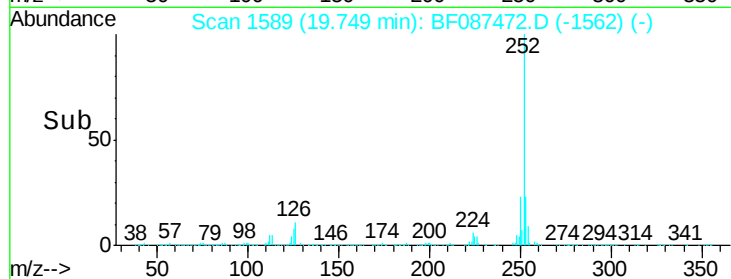
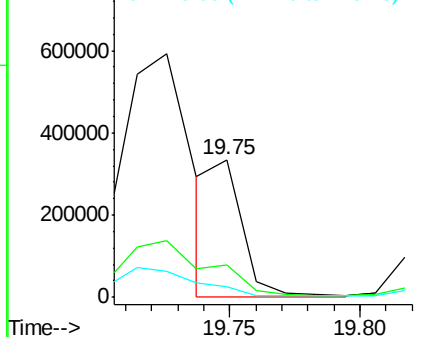
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 269718 |       |       |
| 253     | 23.1  | 17.8   | 26.6  |       |
| 125     | 8.2   | 9.1    | 13.7  |       |

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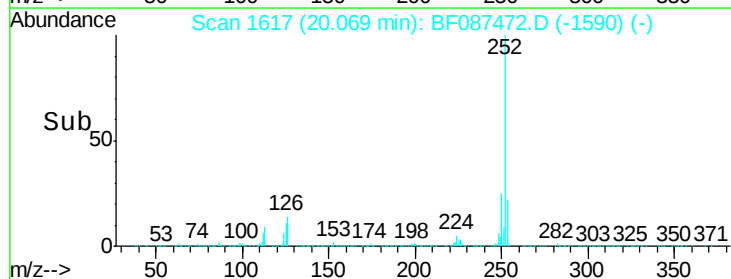
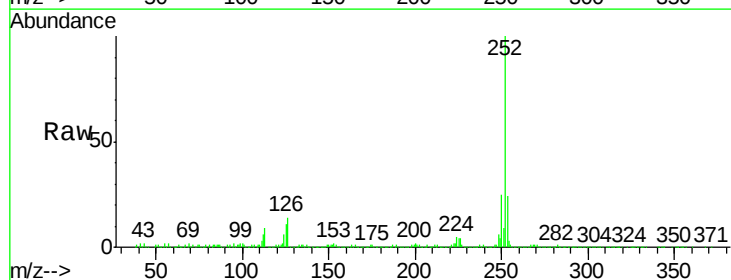
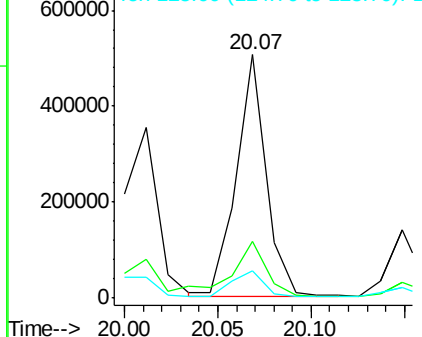
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

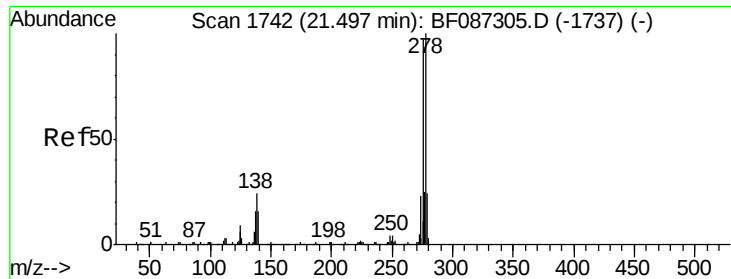


#89  
Benzo(a)pyrene  
Concen: 60.75 ng  
RT: 20.07 min Scan# 1617  
Delta R.T. 0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 562738 |       |       |
| 253     | 23.5  | 17.2   | 25.8  |       |
| 125     | 11.0  | 9.0    | 13.6  |       |

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





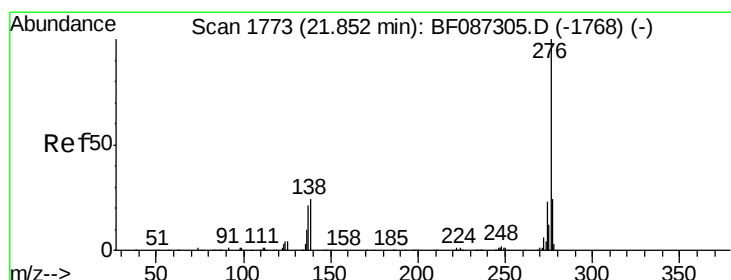
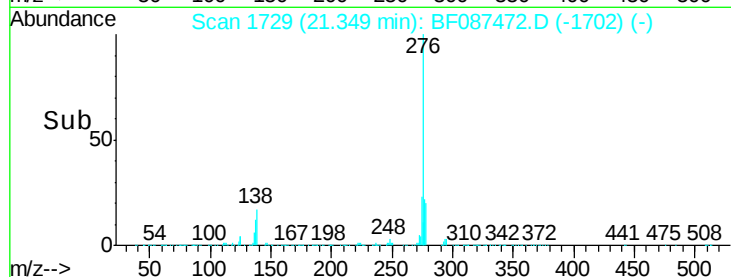
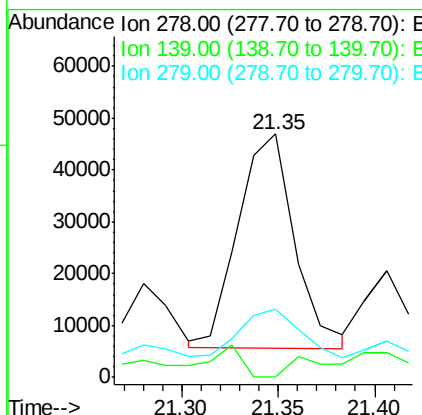
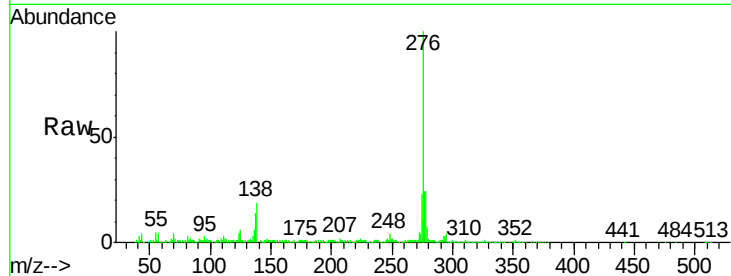
#90  
Dibenzo(a,h)anthracene  
Concen: 10.63 ng/mL  
RT: 21.35 min Scan# 1729  
Delta R.T. 0.01 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

Instrument :  
BNA\_F  
ClientSampleId :  
CHS-STA-1685(0-4)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 16.6  | 24.8# |
| 279     | 27.8  | 19.6  | 29.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 38.35 ng/mL  
RT: 21.70 min Scan# 1760  
Delta R.T. 0.02 min  
Lab File: BF087472.D  
Acq: 28 May 2016 7:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.9  | 19.6  | 29.4  |
| 138     | 19.6  | 23.6  | 35.4# |

