

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\  
 Data File : BF088997.D  
 Acq On : 14 Jul 2016 20:50  
 Operator : UM/SJ  
 Sample : H3996-09  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 U2-B2(0-6)C

## Manual Integrations

sohil  
 7/15/2016 7:27:10 PM

Quant Time: Jul 15 14:04:01 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.68  | 152  | 57856    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.96  | 136  | 201908   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.71  | 164  | 81760    | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.19 | 188  | 134554   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 13.82 | 240  | 116348   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.18 | 264  | 90747    | 20.00 | ng    | -0.03    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.28  | 112 | 397872 | 103.06 | ng | -0.01 |
| 7) Phenol-d6             | 6.34  | 99  | 612128 | 122.72 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.26  | 82  | 375691 | 97.51  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 10.50 | 330 | 72416  | 95.38  | ng | -0.03 |
| 44) 2-Fluorobiphenyl     | 9.05  | 172 | 581993 | 112.44 | ng | -0.02 |
| 78) Terphenyl-d14        | 12.78 | 244 | 374113 | 71.62  | ng | -0.02 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 49) Dimethylphthalate          | 9.44  | 163 | 88766  | 15.24 | ng | 99     |
| 74) Fluoranthene               | 12.40 | 202 | 29366  | 3.94  | ng | 93     |
| 77) Pyrene                     | 12.62 | 202 | 29801  | 3.02  | ng | 98     |
| 80) Benzo(a)anthracene         | 13.81 | 228 | 16821  | 2.25  | ng | # 92   |
| 82) Chrysene                   | 13.84 | 228 | 15776m | 2.13  | ng |        |
| 83) Bis(2-ethylhexyl)phthalate | 13.82 | 149 | 45134  | 8.98  | ng | 99     |
| 87) Benzo(b)fluoranthene       | 14.81 | 252 | 24742m | 4.35  | ng |        |
| 89) Benzo(a)pyrene             | 15.12 | 252 | 13898  | 2.88  | ng | # 87   |
| 91) Benzo(g,h,i)perylene       | 16.83 | 276 | 8583   | 2.06  | ng | 94     |

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

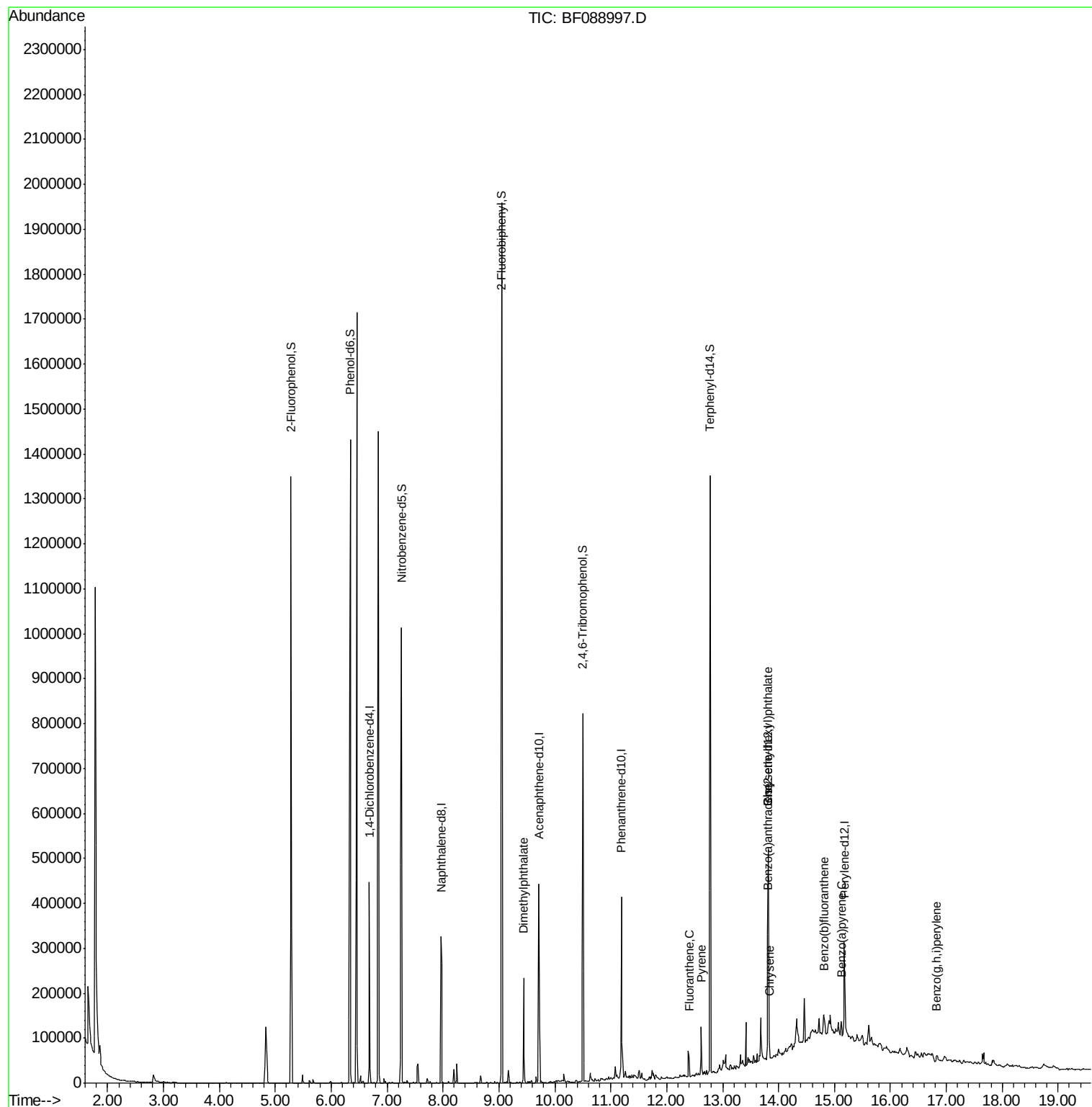
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071416\  
Data File : BF088997.D  
Acq On : 14 Jul 2016 20:50  
Operator : UM/SJ  
Sample : H3996-09  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

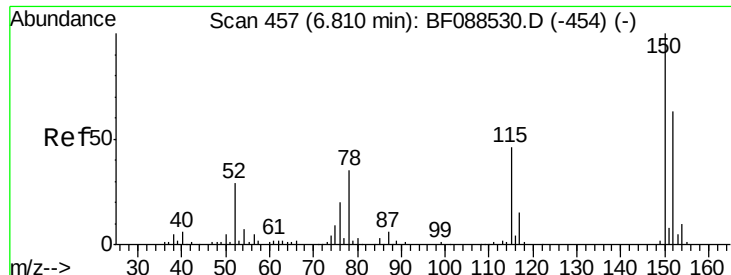
Instrument :  
BNA\_F  
ClientSampleId :  
U2-B2(0-6)C

Manual Integrations

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Quant Time: Jul 15 14:04:01 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF063016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 11 18:13:32 2016  
Response via : Initial Calibration





#1

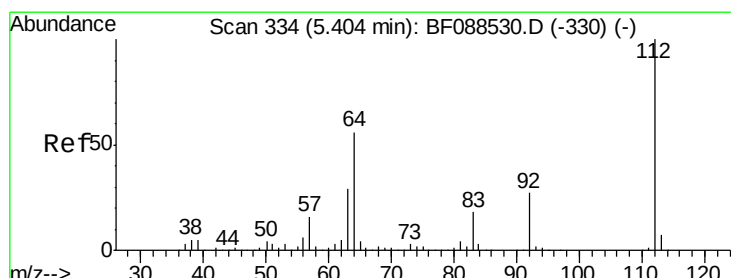
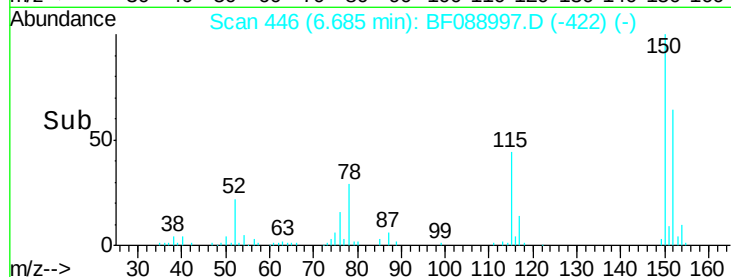
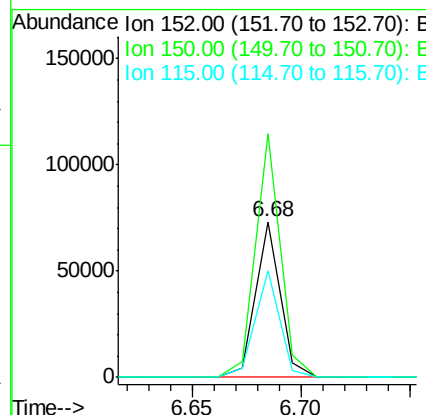
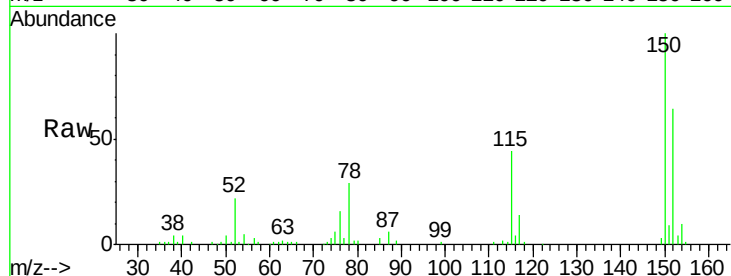
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.68 min Scan# 446  
Delta R.T. -0.02 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
U2-B2(0-6)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 123.8 | 185.6 |
| 115     | 68.3  | 39.6  | 59.4  |

Manual Integrations

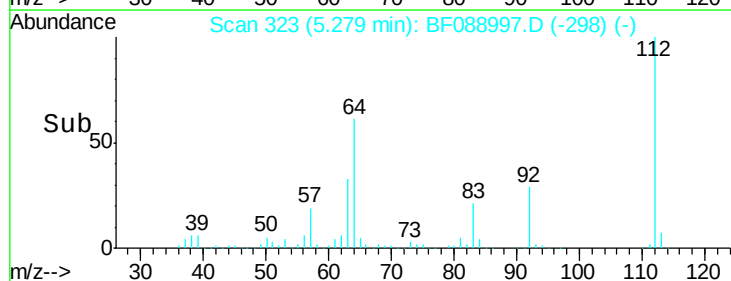
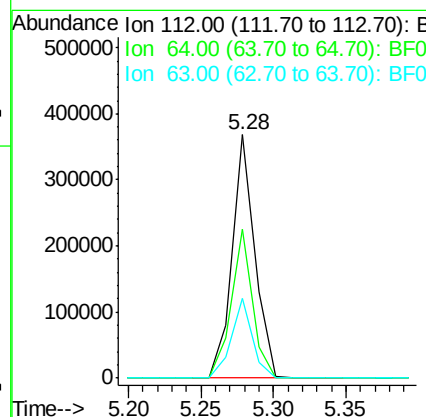
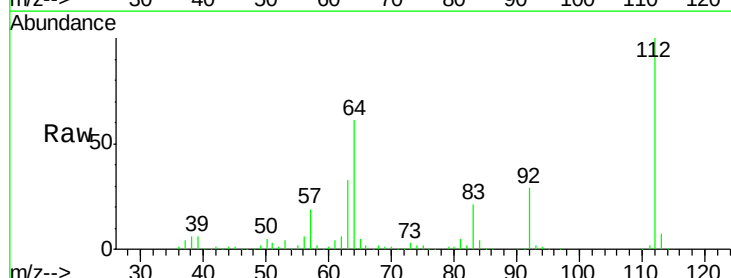
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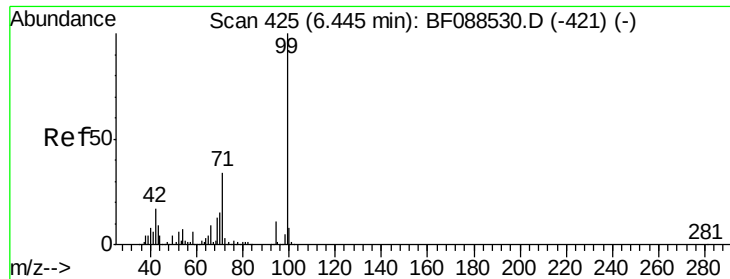


#5

2-Fluorophenol  
Concen: 103.06 ng  
RT: 5.28 min Scan# 323  
Delta R.T. -0.01 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.3  | 42.2  | 63.2  |
| 63      | 33.0  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 122.72 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Instrument :

BNA\_F

ClientSampleId :

U2-B2(0-6)C

Tot Ion: 99 Resp: 612128

Ion Ratio Lower Upper

99 100

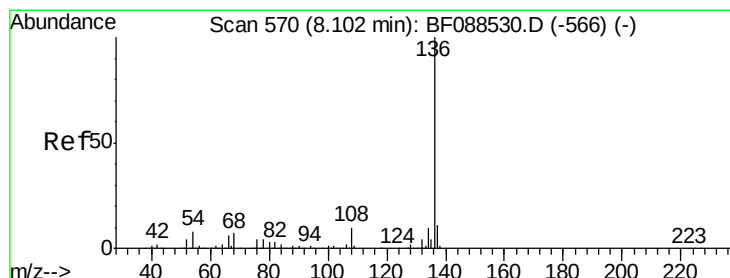
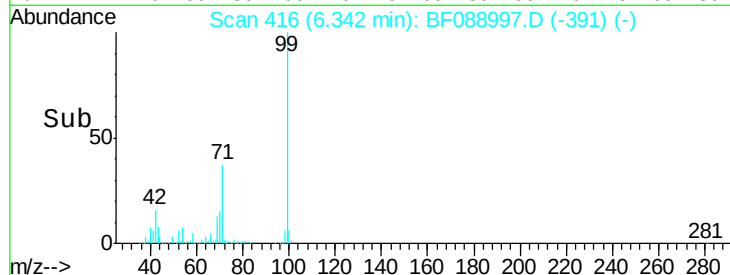
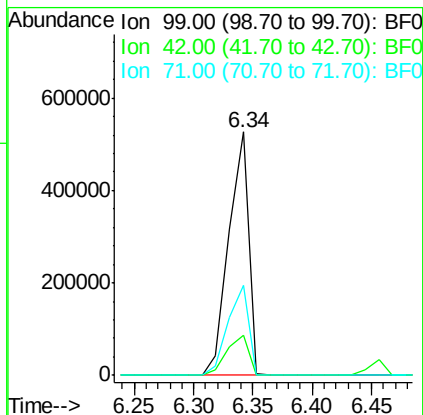
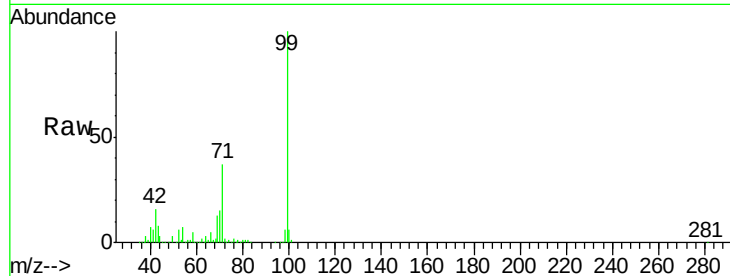
42 16.3 12.2 18.2

71 36.8 23.4 35.0#

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 558

Delta R.T. -0.03 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Tgt Ion: 136 Resp: 201908

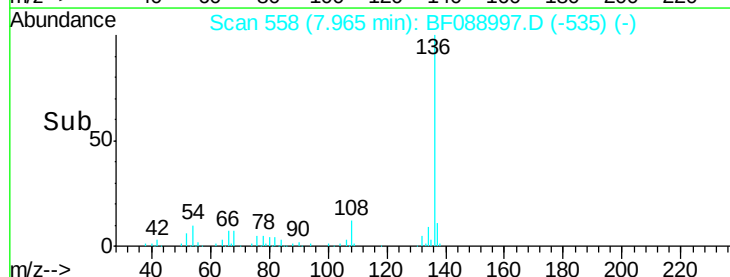
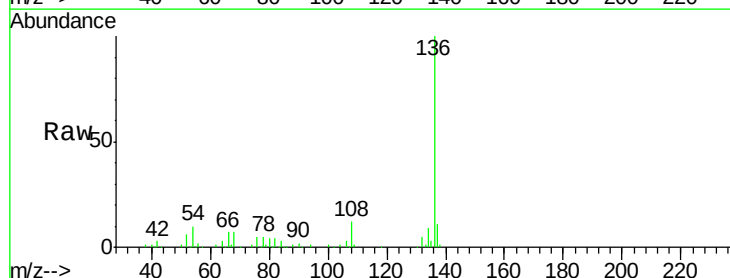
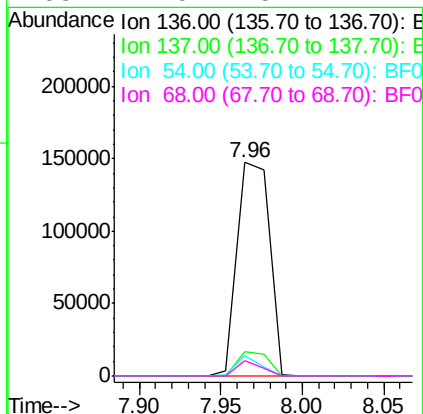
Ion Ratio Lower Upper

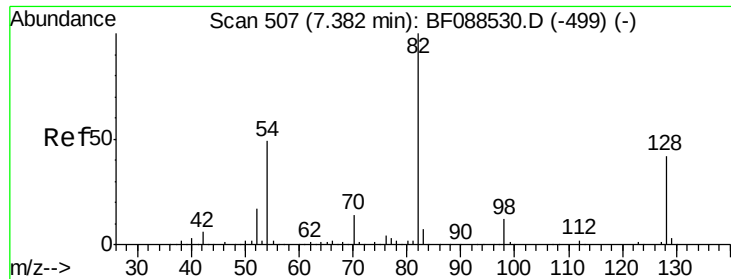
136 100

137 11.2 9.1 13.7

54 9.8 6.6 10.0

68 7.0 5.1 7.7





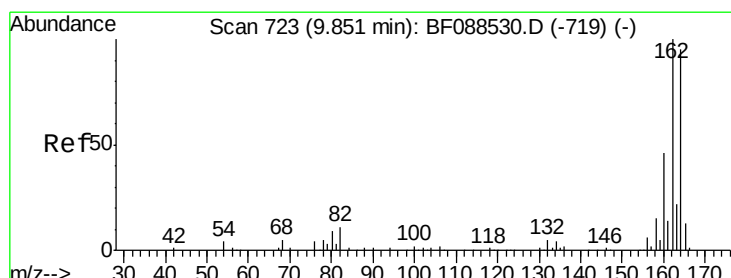
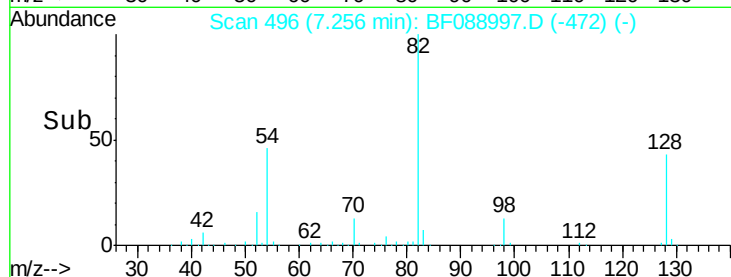
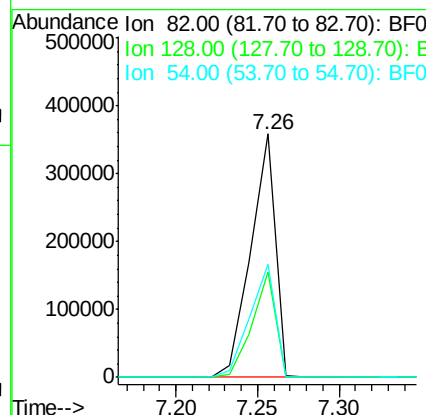
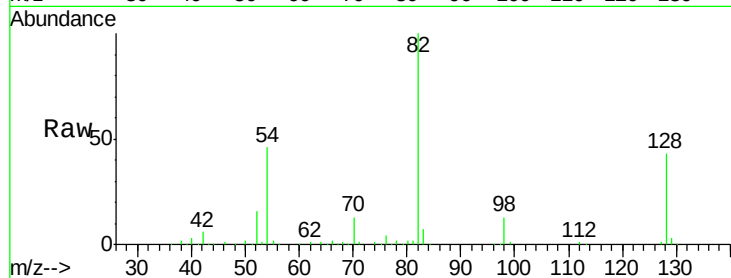
#23  
 Nitrobenzene-d5  
 Concen: 97.51 ng  
 RT: 7.26 min Scan# 496  
 Delta R.T. -0.02 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 U2-B2(0-6)C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 375691 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.0  | 35.9  | 53.9   |
| 54        | 46.3  | 40.9  | 61.3   |

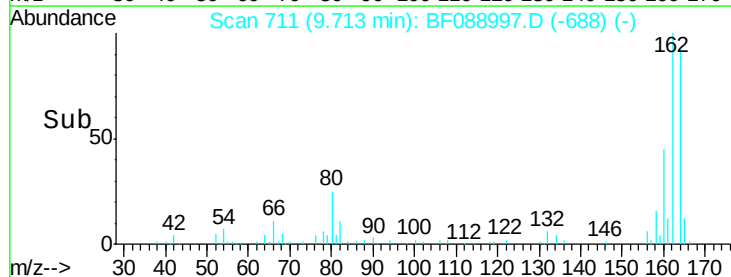
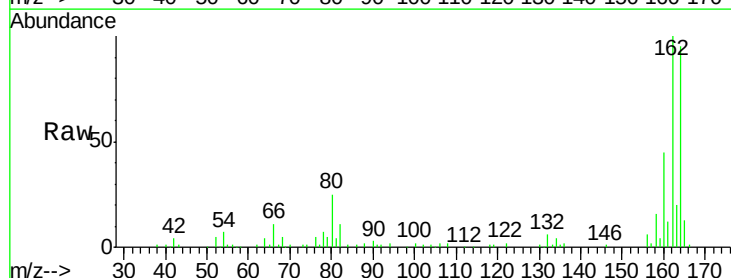
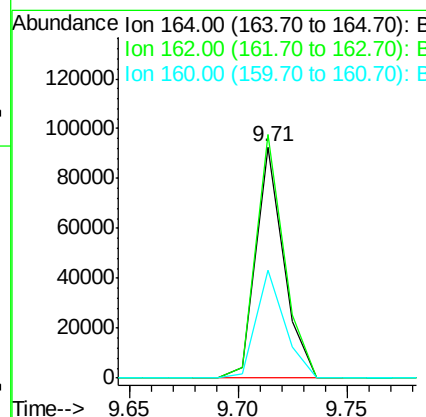
Manual Integrations

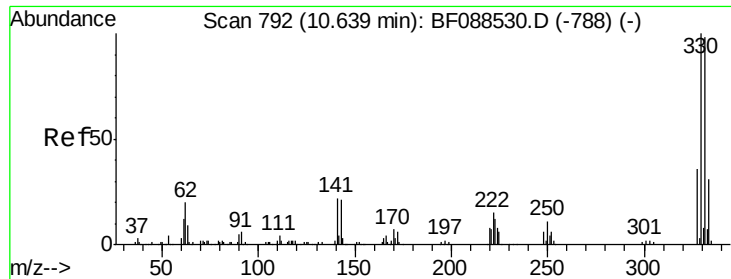
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#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.71 min Scan# 711  
 Delta R.T. -0.03 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 81760 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.4 | 85.4  | 128.2 |
| 160       | 47.0  | 39.5  | 59.3  |





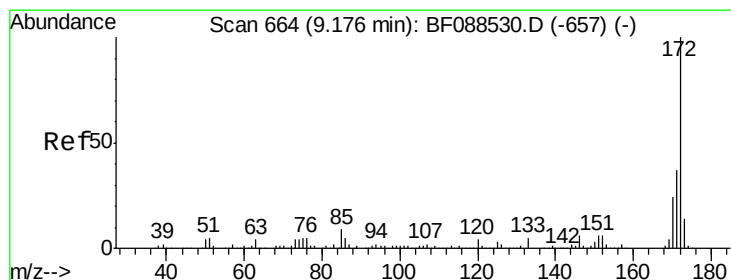
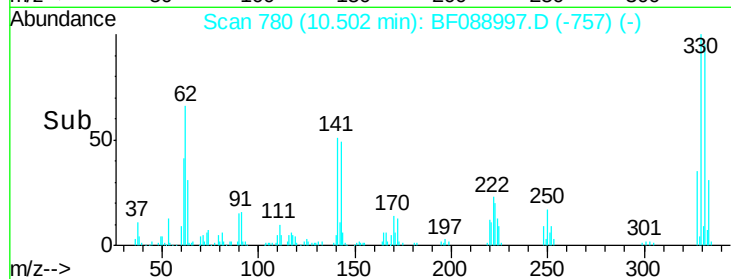
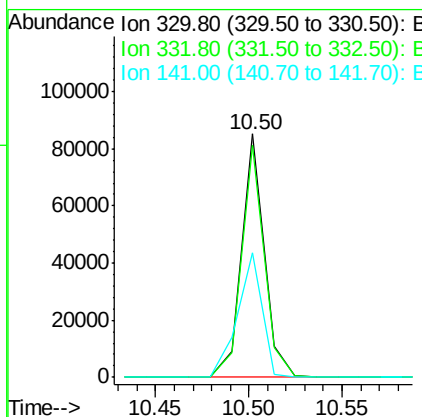
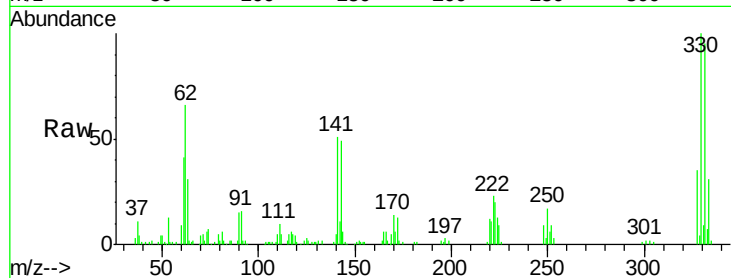
#41  
 2,4,6-Tribromophenol  
 Concen: 95.38 ng  
 RT: 10.50 min Scan# 780  
 Delta R.T. -0.03 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 U2-B2(0-6)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 0.0   | 0.0#  |
| 141     | 56.4  | 0.0   | 0.0#  |

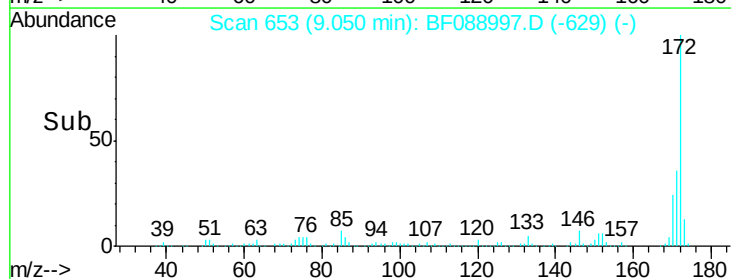
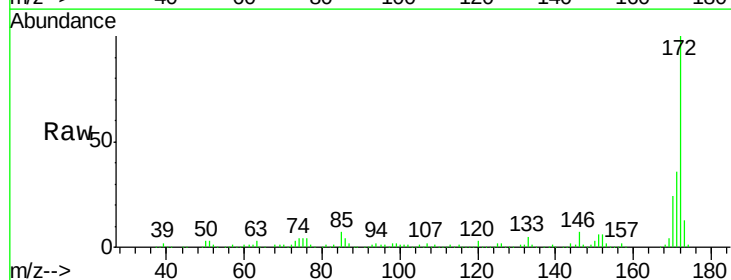
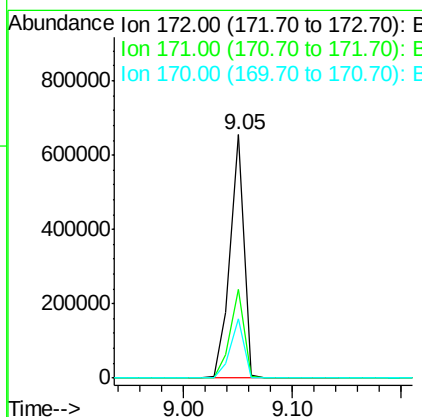
Manual Integrations

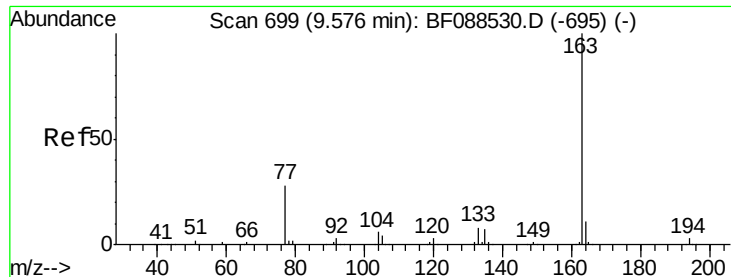
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#44  
 2-Fluorobiphenyl  
 Concen: 112.44 ng  
 RT: 9.05 min Scan# 653  
 Delta R.T. -0.02 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 28.6  | 43.0  |
| 170     | 24.1  | 19.2  | 28.8  |





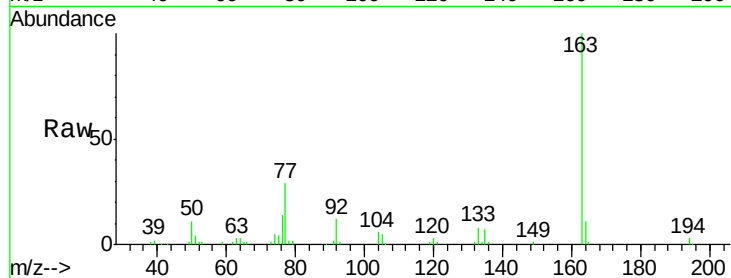
#49  
Dimethylphthalate  
Concen: 15.24 ng  
RT: 9.44 min Scan# 687  
Delta R.T. -0.05 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
U2-B2(0-6)C

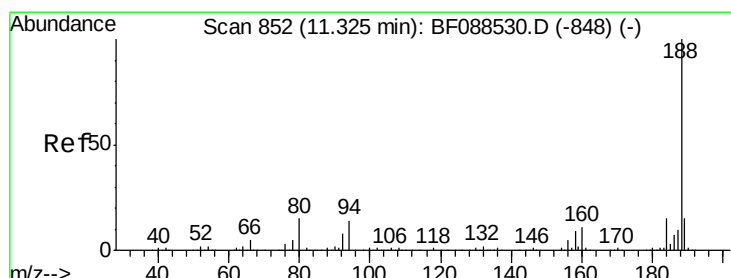
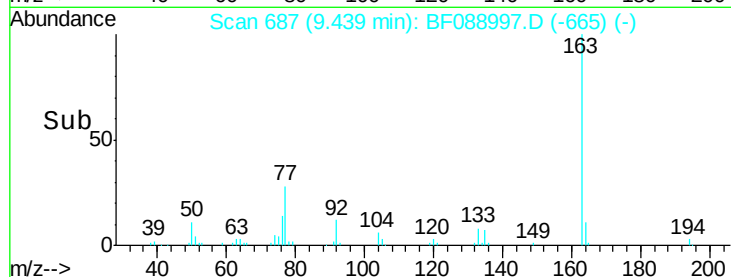
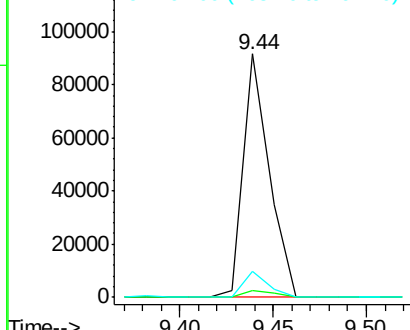
Tot Ion:163 Resp: 88766  
Ion Ratio Lower Upper  
163 100  
194 3.0 2.8 4.2  
164 10.8 8.3 12.5

Manual Integrations

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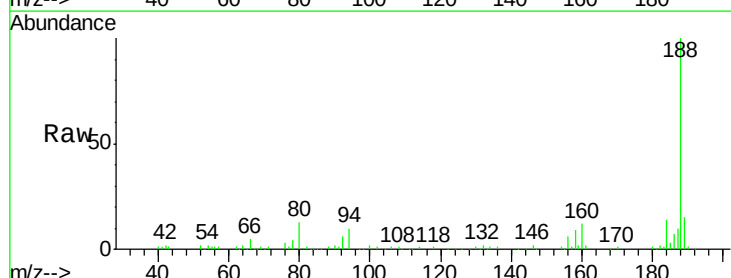


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

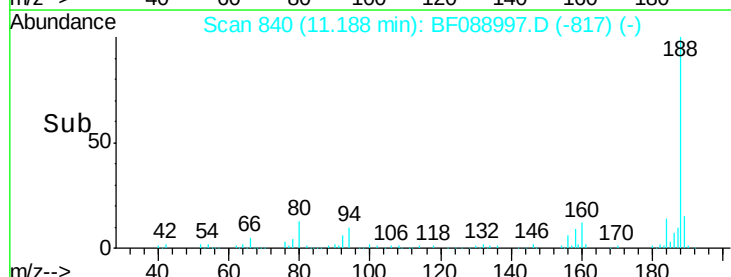
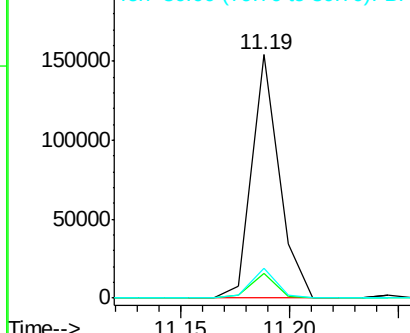


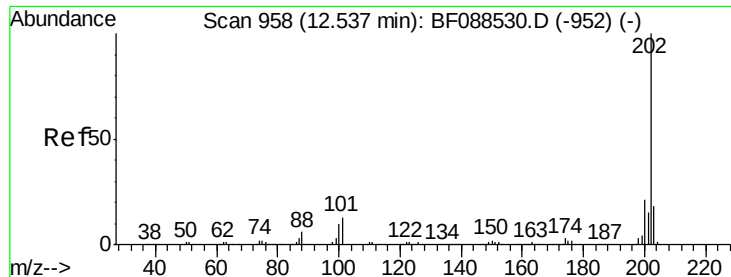
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.19 min Scan# 840  
Delta R.T. -0.03 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

Tgt Ion:188 Resp: 134554  
Ion Ratio Lower Upper  
188 100  
94 10.4 9.0 13.6  
80 12.5 10.0 15.0



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





#74

Fluoranthene

Concen: 3.94 ng

RT: 12.40 min Scan# 946

Delta R.T. -0.02 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Instrument :

BNA\_F

ClientSampled :

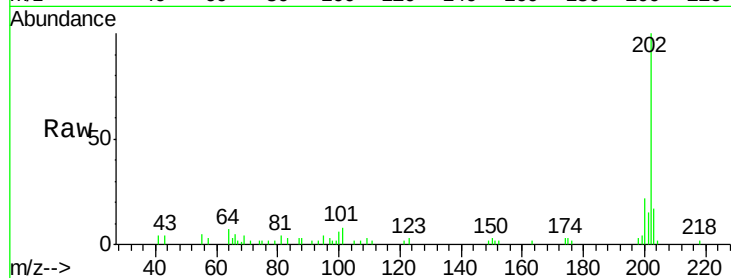
U2-B2(0-6)C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 29366 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 7.6   | 0.0   | 33.1  |
| 203       | 17.2  | 0.0   | 38.1  |

Manual Integrations

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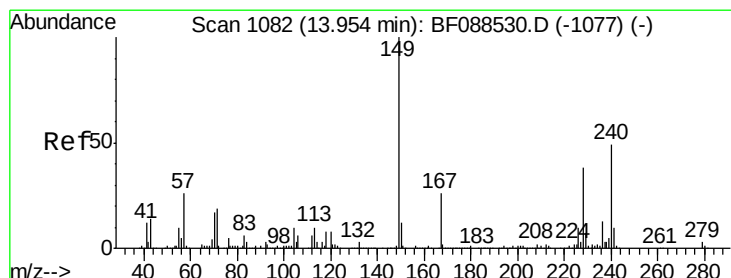
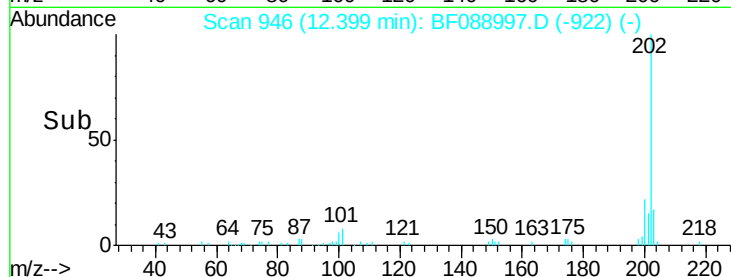
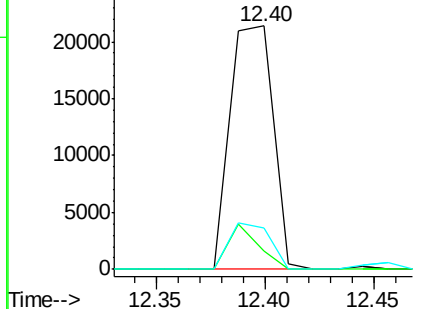
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Abundance Ion 202.00 (201.70 to 202.70): E

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

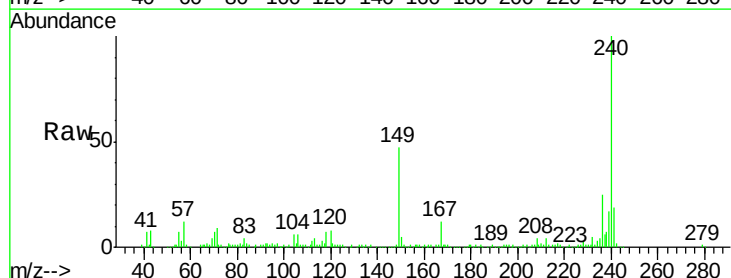
RT: 13.82 min Scan# 1070

Delta R.T. -0.03 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

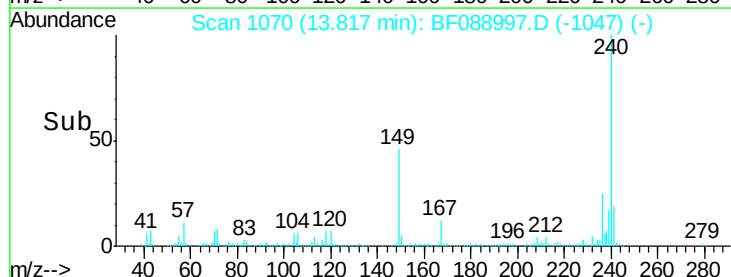
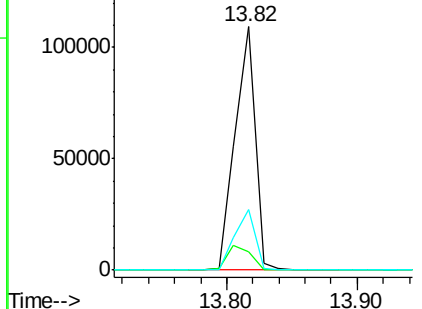
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 116348 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 7.8   | 6.8   | 10.2   |
| 236       | 24.7  | 20.2  | 30.2   |



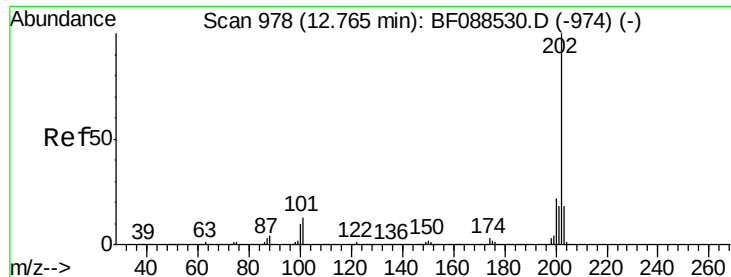
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E







#77

Pvrene

Concen: 3.02 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.03 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Instrument :

BNA\_F

ClientSampleId :

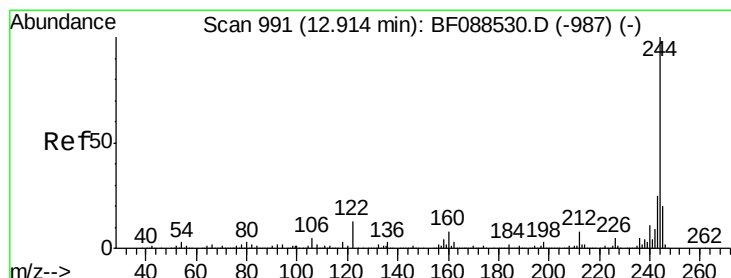
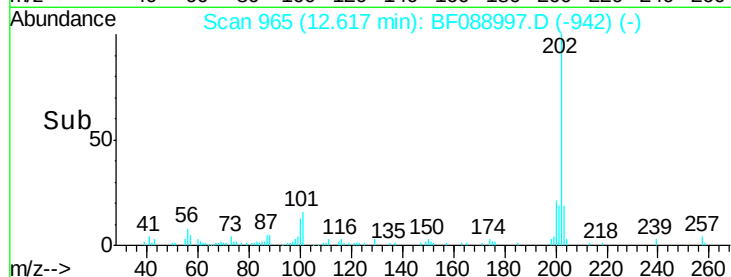
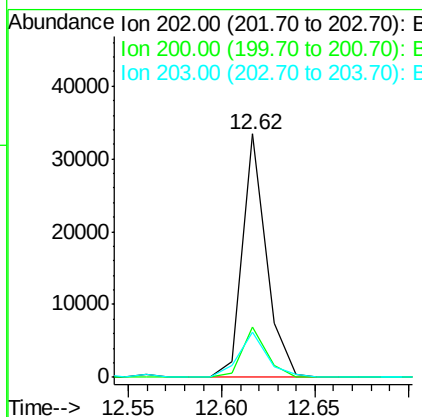
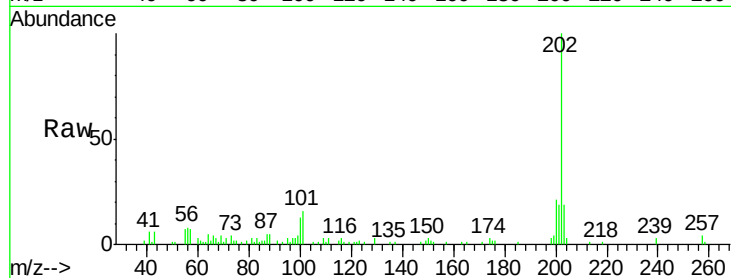
U2-B2(0-6)C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 29801 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.7  | 17.4  | 26.2  |
| 203       | 18.5  | 14.5  | 21.7  |

Manual Integrations

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#78

Terphenyl-d14

Concen: 71.62 ng

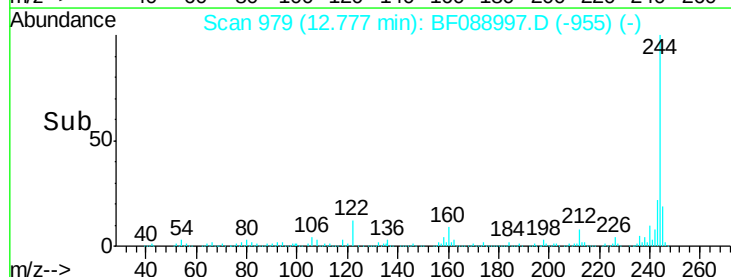
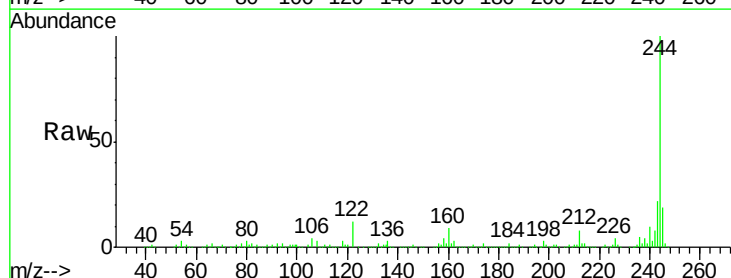
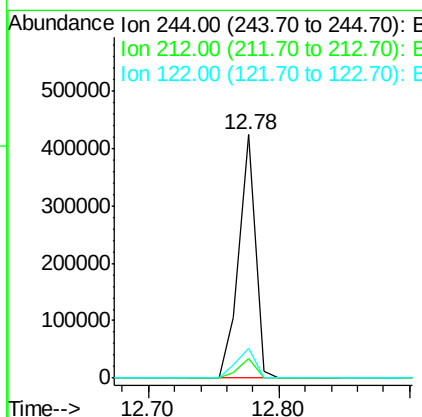
RT: 12.78 min Scan# 979

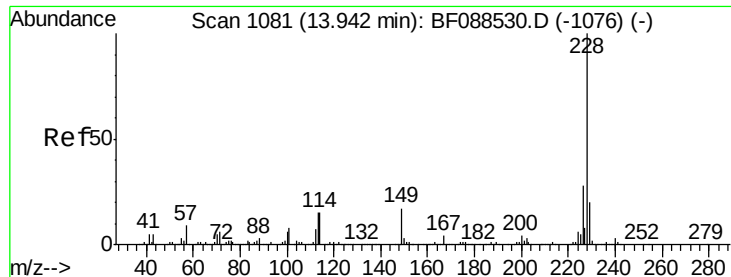
Delta R.T. -0.02 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 374113 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 8.1   | 6.0   | 9.0    |
| 122       | 12.3  | 11.2  | 16.8   |





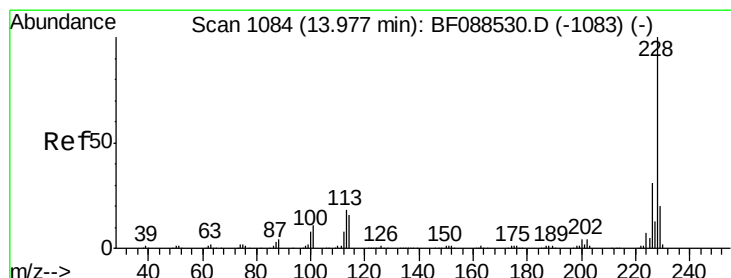
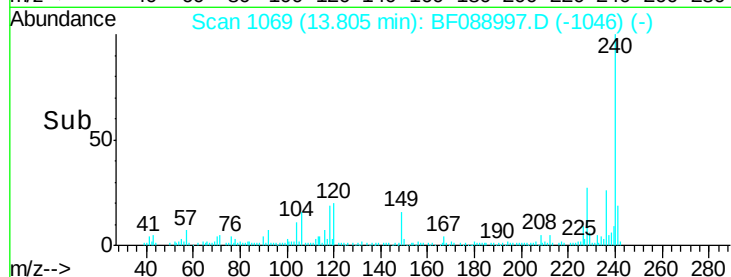
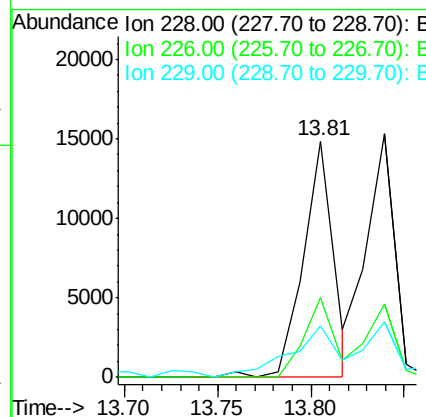
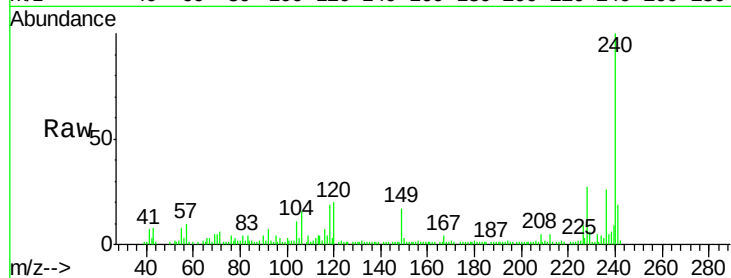
#80  
Benzo(a)anthracene  
Concen: 2.25 ng  
RT: 13.81 min Scan# 1069  
Delta R.T. -0.03 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

Instrument :  
BNA\_F  
ClientSampleId :  
U2-B2(0-6)C

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 228     | 100  |       |       |       |
| 226     | 33.8 | 22.3  | 33.5  |       |
| 229     | 21.7 | 16.0  | 24.0  |       |

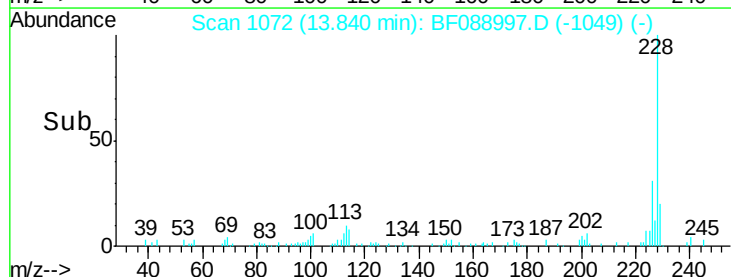
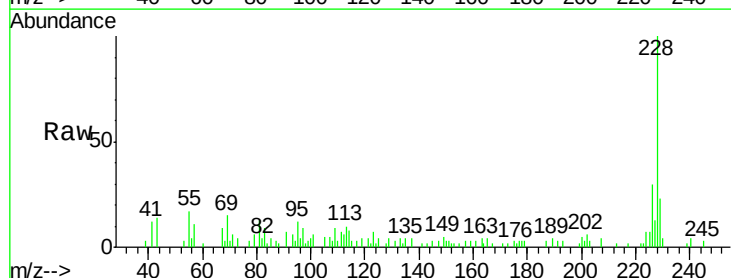
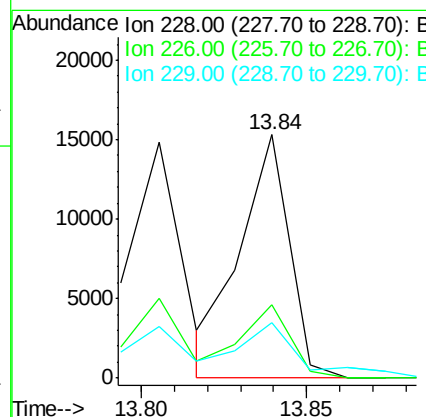
Manual Integrations

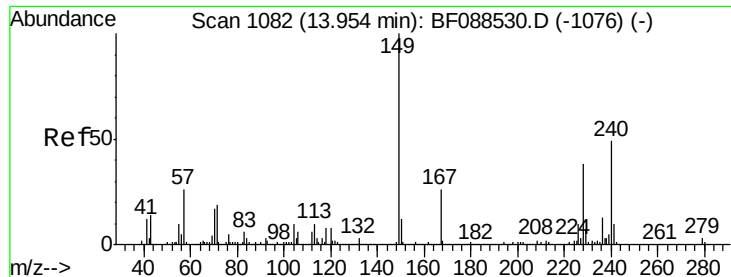
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#82  
Chrysene  
Concen: 2.13 ng m  
RT: 13.84 min Scan# 1072  
Delta R.T. -0.03 min  
Lab File: BF088997.D  
Acq: 14 Jul 2016 20:50

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 228     | 100  |       |       |       |
| 226     | 30.0 | 25.4  | 38.2  |       |
| 229     | 22.6 | 16.3  | 24.5  |       |





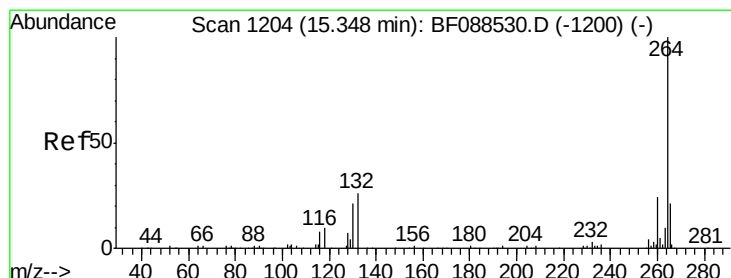
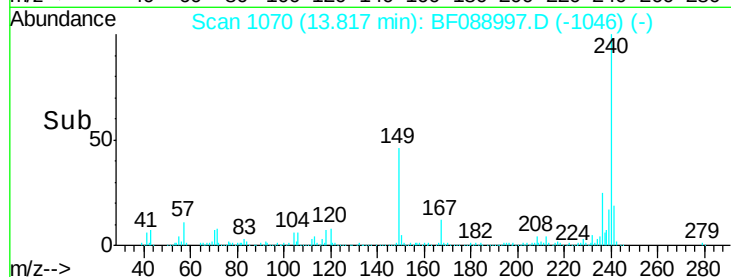
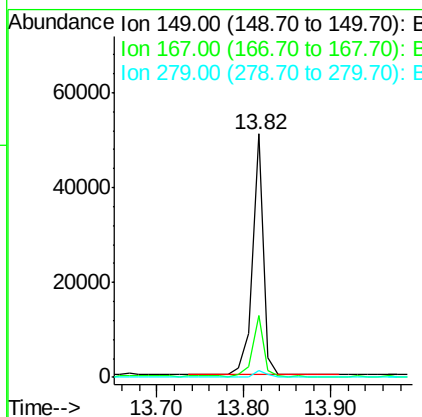
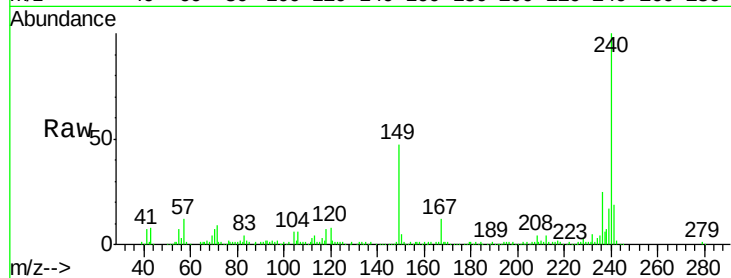
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 8.98 ng  
 RT: 13.82 min Scan# 1070  
 Delta R.T. -0.02 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 U2-B2(0-6)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.3  | 20.5  | 30.7  |
| 279     | 2.8   | 2.0   | 3.0   |

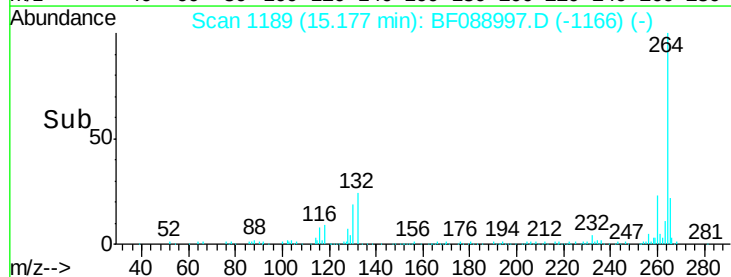
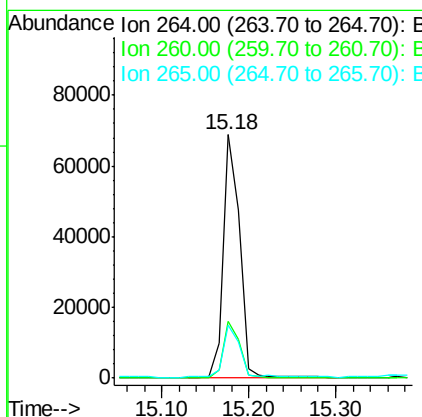
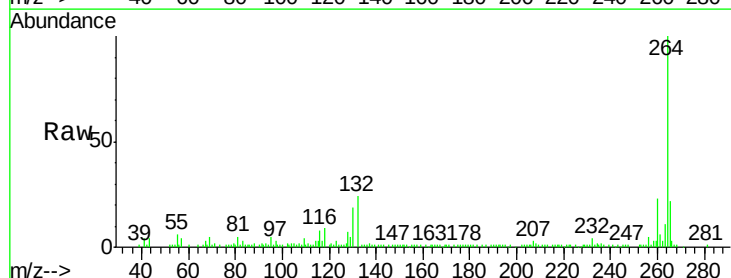
Manual Integrations

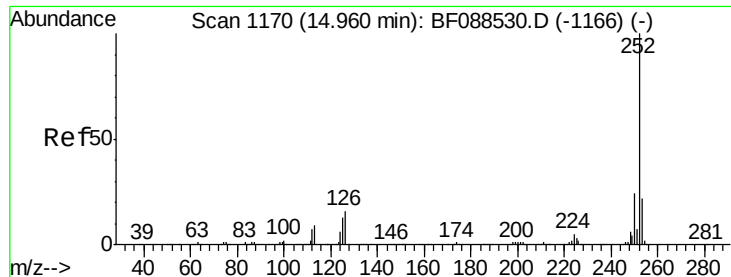
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#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.18 min Scan# 1189  
 Delta R.T. -0.03 min  
 Lab File: BF088997.D  
 Acq: 14 Jul 2016 20:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.5  | 16.9  | 25.3  |





#87

Benzo(b)fluoranthene

Concen: 4.35 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.02 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Instrument :

BNA\_F

ClientSampleId :

U2-B2(0-6)C

Tot Ion:252 Resp: 24742

Ion Ratio Lower Upper

252 100

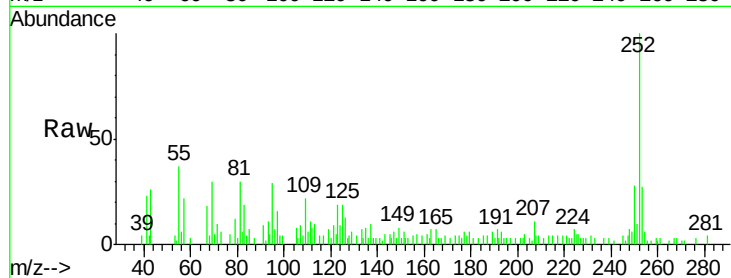
253 27.1 17.4 26.2#

125 18.5 7.1 10.7#

Manual Integrations

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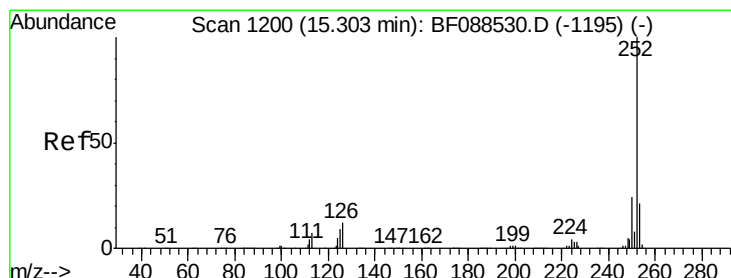
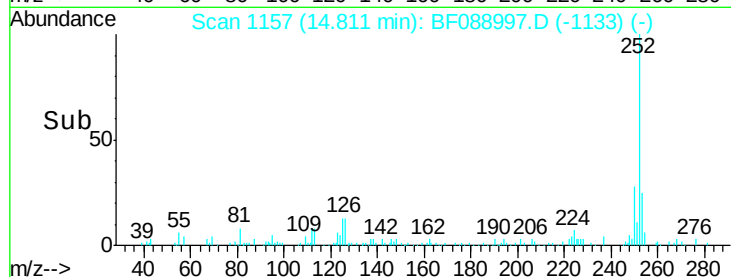
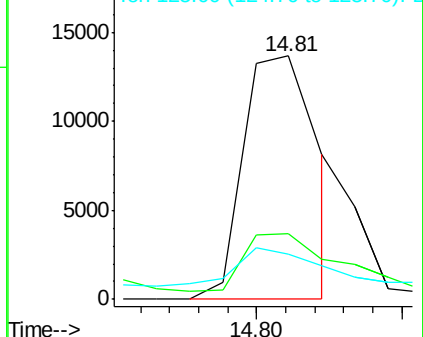
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 2.88 ng

RT: 15.12 min Scan# 1184

Delta R.T. -0.05 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Tgt Ion:252 Resp: 13898

Ion Ratio Lower Upper

252 100

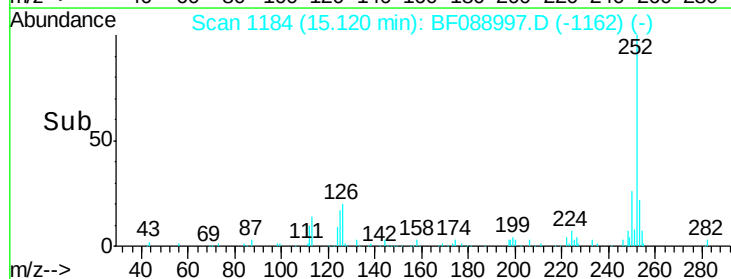
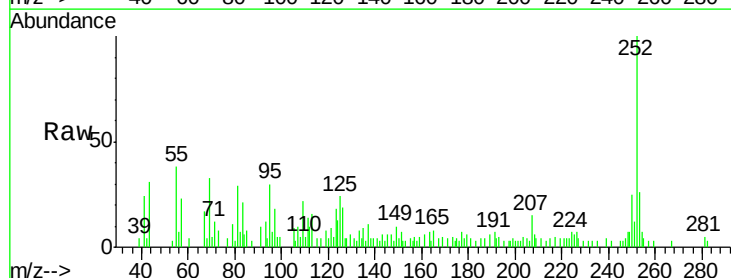
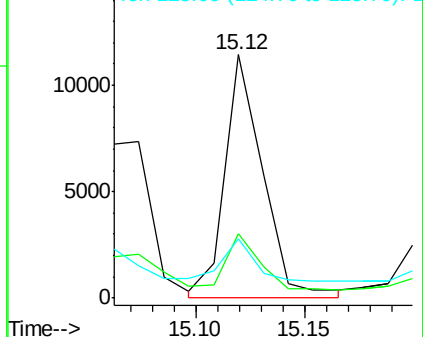
253 26.3 17.9 26.9

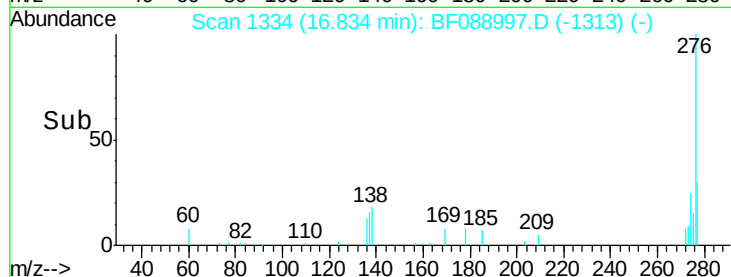
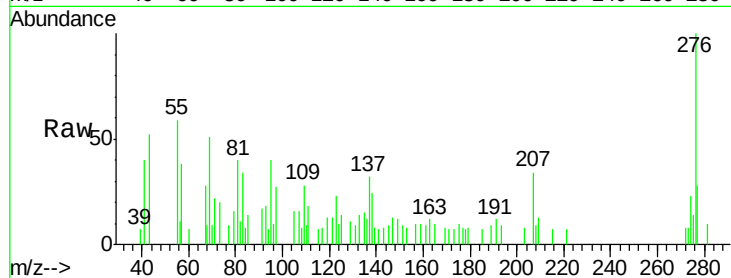
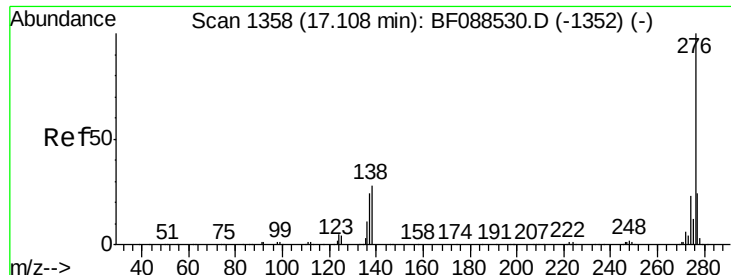
125 24.3 12.5 18.7#

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





#91

Benzo(a,h,i)perylene

Concen: 2.06 ng

RT: 16.83 min Scan# 1334

Delta R.T. -0.06 min

Lab File: BF088997.D

Acq: 14 Jul 2016 20:50

Instrument :

BNA\_F

ClientSampleId :

U2-B2(0-6)C

Tot Ion: 276 Resp: 8583

Ion Ratio Lower Upper

276 100

277 27.5 18.9 28.3

138 24.3 21.4 32.2

Manual Integrations

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