

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\  
 Data File : BF089056.D  
 Acq On : 16 Jul 2016 15:40  
 Operator : UM/SJ  
 Sample : H3989-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Q7-B2(0-5)C

## Manual Integrations

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Quant Time: Jul 18 01:55:23 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   | 6.66  | 152  | 60118    | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8          | 7.95  | 136  | 224775   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10        | 9.70  | 164  | 98587    | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10        | 11.18 | 188  | 152363   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12            | 13.81 | 240  | 114689   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12            | 15.18 | 264  | 88071    | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.26  | 112  | 277086   | 69.08 | ng    | -0.03    |
| 7) Phenol-d6                | 6.32  | 99   | 408950   | 78.90 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.23  | 82   | 235128   | 54.82 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.49 | 330  | 55111    | 60.20 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.03  | 172  | 370966   | 59.44 | ng    | -0.05    |
| 78) Terphenyl-d14           | 12.77 | 244  | 253985   | 49.33 | ng    | -0.03    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 9.43  | 163  | 92807    | 13.21 | ng    | 98       |
| 70) Phenanthrene            | 11.20 | 178  | 39802    | 4.78  | ng    | 99       |
| 74) Fluoranthene            | 12.39 | 202  | 71863    | 8.51  | ng    | 94       |
| 77) Pyrene                  | 12.61 | 202  | 65818    | 6.77  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.79 | 228  | 34790m   | 4.71  | ng    |          |
| 82) Chrysene                | 13.83 | 228  | 35969m   | 4.92  | ng    |          |
| 85) Indeno(1,2,3-cd)pyrene  | 16.46 | 276  | 16220    | 2.89  | ng    | # 100    |
| 87) Benzo(b)fluoranthene    | 14.80 | 252  | 39307m   | 7.11  | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.81 | 252  | 15511m   | 3.23  | ng    |          |
| 89) Benzo(a)pyrene          | 15.12 | 252  | 24984    | 5.34  | ng    | 93       |
| 91) Benzo(g,h,i)perylene    | 16.83 | 276  | 15946    | 3.95  | ng    | 94       |

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

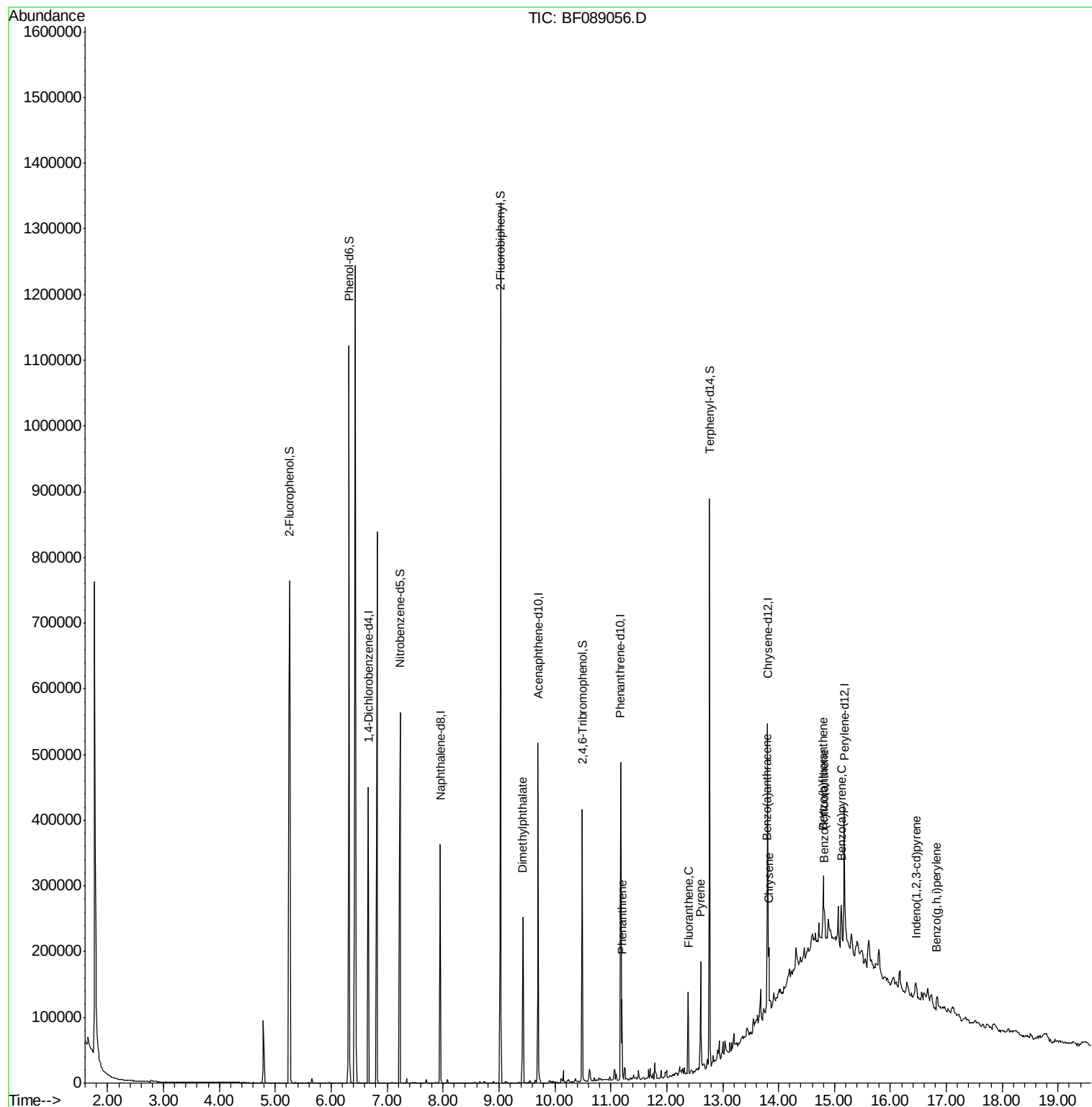
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\  
Data File : BF089056.D  
Acq On : 16 Jul 2016 15:40  
Operator : UM/SJ  
Sample : H3989-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

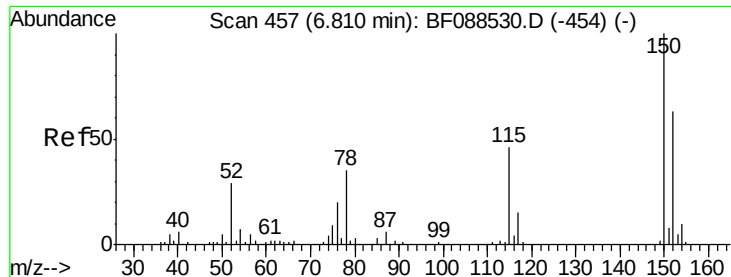
Instrument :  
BNA\_F  
ClientSampleId :  
Q7-B2(0-5)C

Manual Integrations

Quant Time: Jul 18 01:55:23 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

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#1

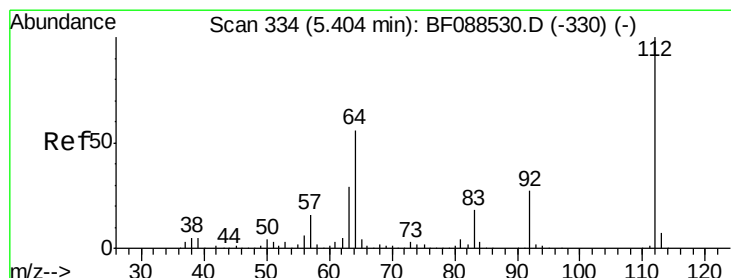
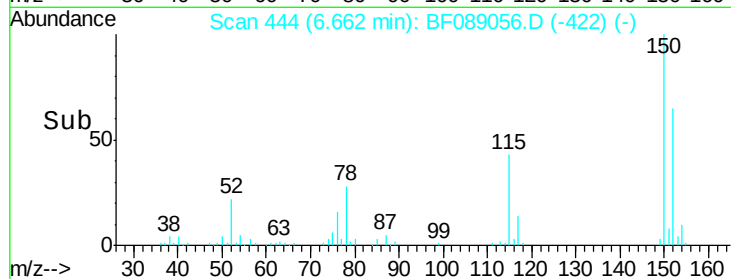
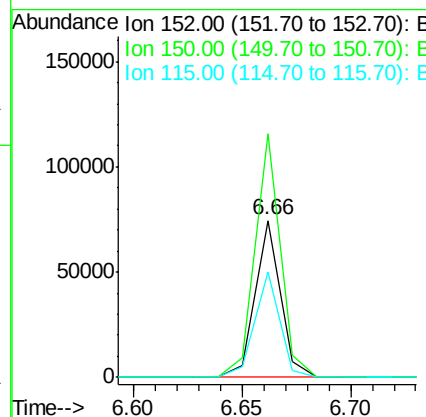
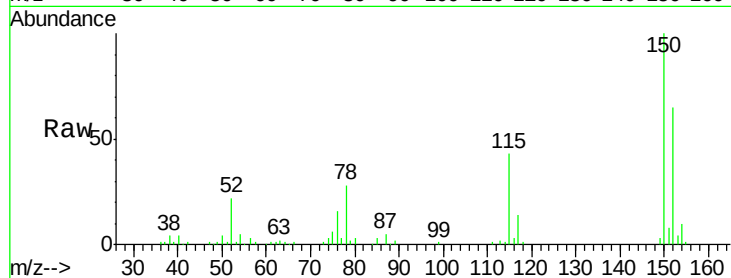
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.66 min Scan# 444  
Delta R.T. -0.05 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

Instrument :  
BNA\_F  
ClientSampleId :  
Q7-B2(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 123.8 | 185.6 |
| 115     | 67.3  | 39.6  | 59.4  |

Manual Integrations

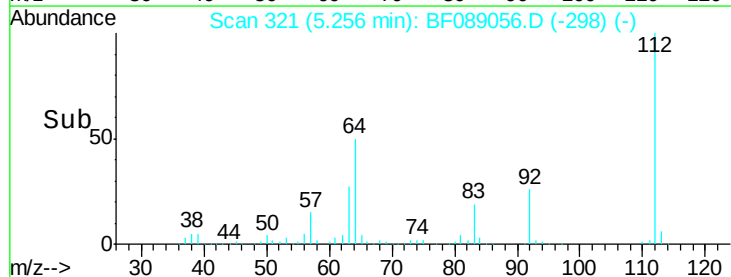
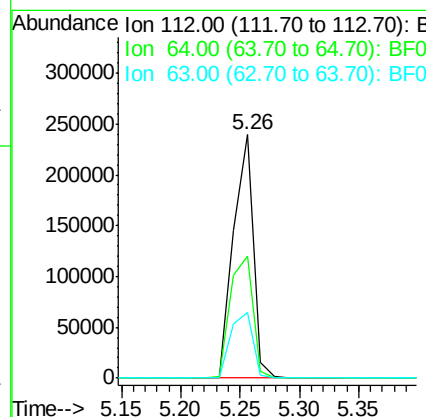
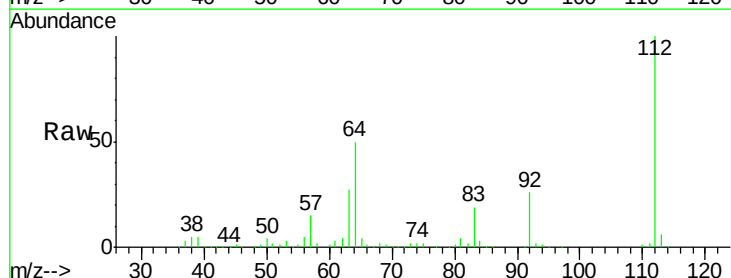
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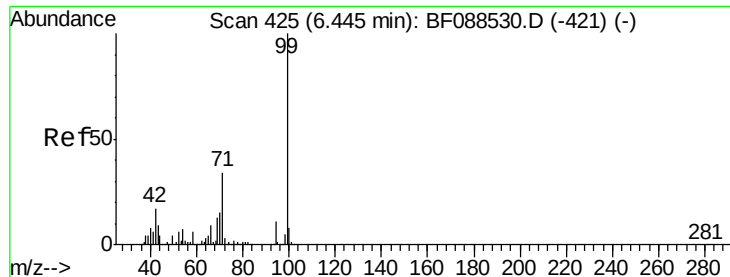


#5

2-Fluorophenol  
Concen: 69.08 ng  
RT: 5.26 min Scan# 321  
Delta R.T. -0.03 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 50.0  | 42.2  | 63.2  |
| 63      | 27.0  | 21.8  | 32.8  |





#7

Phenol-d6

Concen: 78.90 ng

RT: 6.32 min Scan# 414

Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA\_F

ClientSampleId :

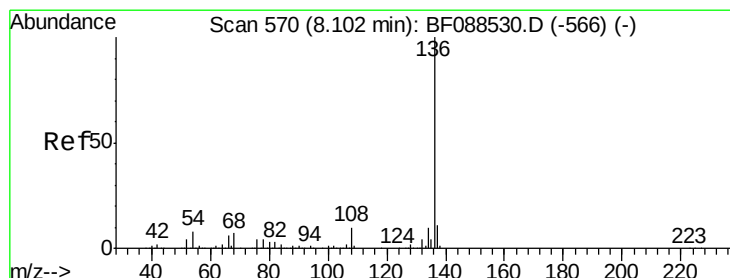
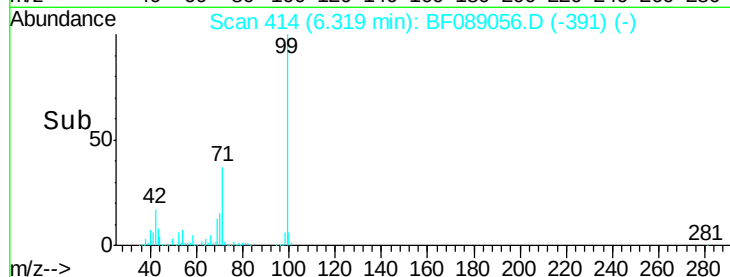
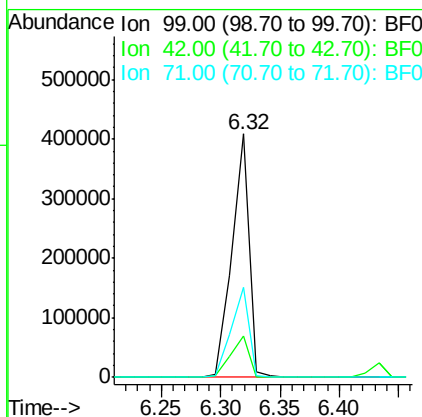
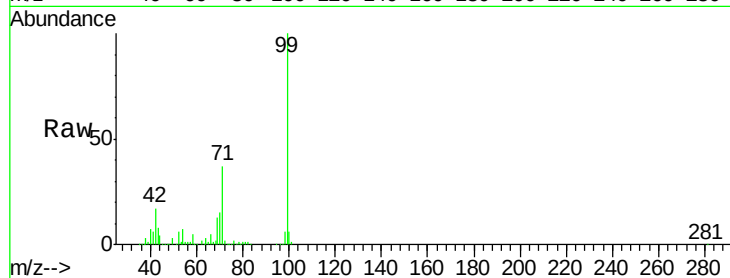
Q7-B2(0-5)C

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 408950 |       |       |
| 42      | 17.1 | 12.2  |        | 18.2  |       |
| 71      | 37.0 | 23.4  |        | 35.0# |       |

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

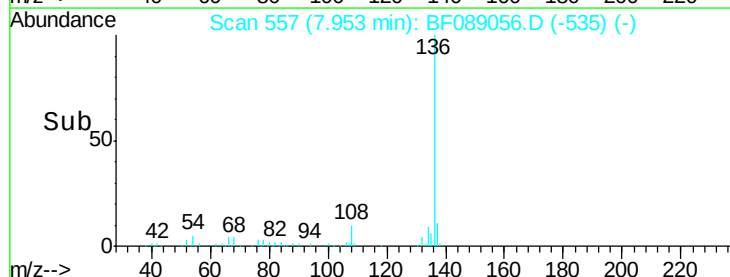
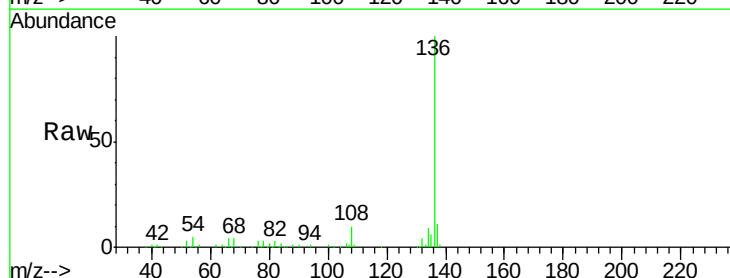
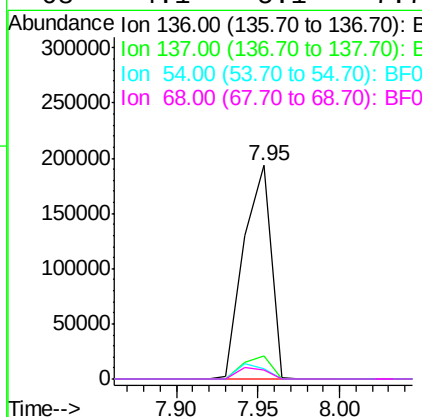
RT: 7.95 min Scan# 557

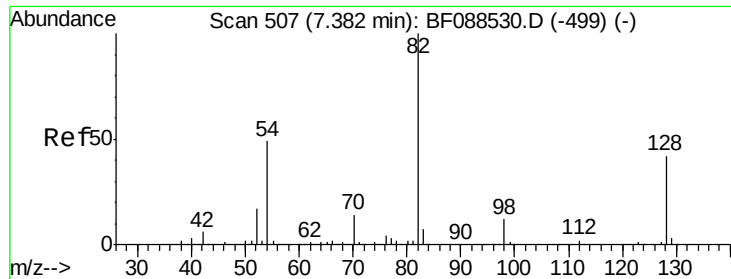
Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 224775 |       |       |
| 137     | 10.6 | 9.1   |        | 13.7  |       |
| 54      | 4.9  | 6.6   |        | 10.0# |       |
| 68      | 4.1  | 5.1   |        | 7.7#  |       |





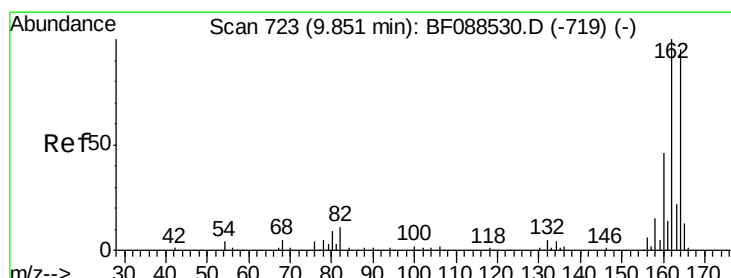
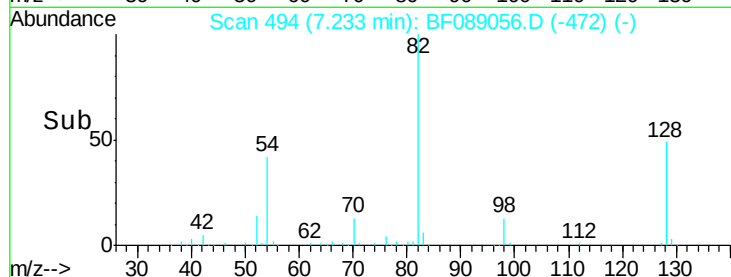
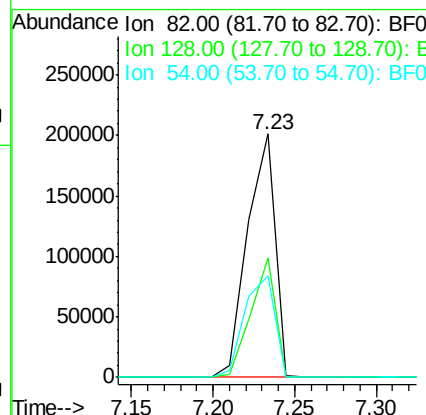
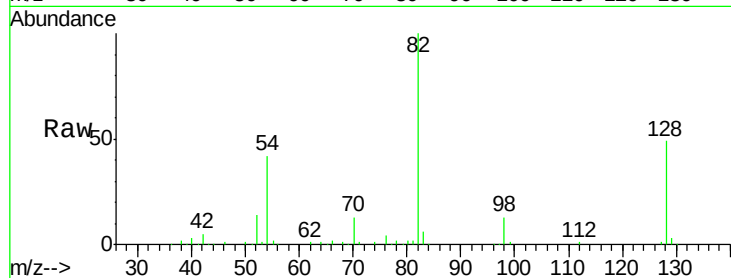
#23  
Nitrobenzene-d5  
Concen: 54.82 ng  
RT: 7.23 min Scan# 494  
Delta R.T. -0.05 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

Instrument :  
BNA\_F  
ClientSampled :  
Q7-B2(0-5)C

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 235128 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 49.3  | 35.9  | 53.9   |
| 54        | 41.7  | 40.9  | 61.3   |

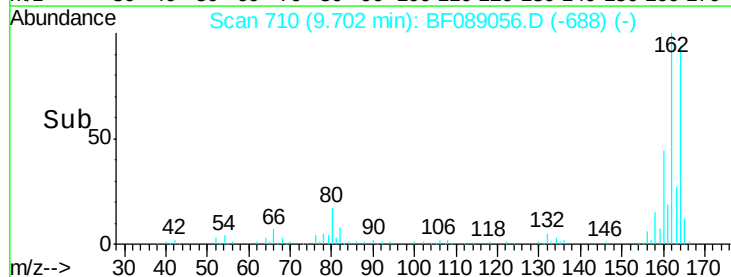
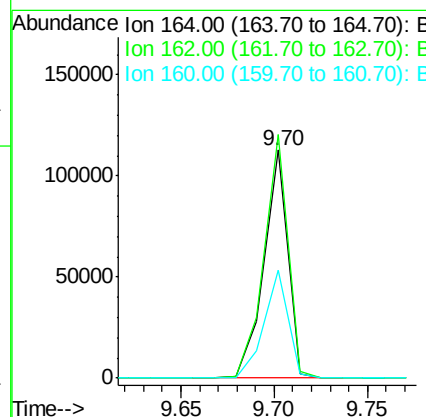
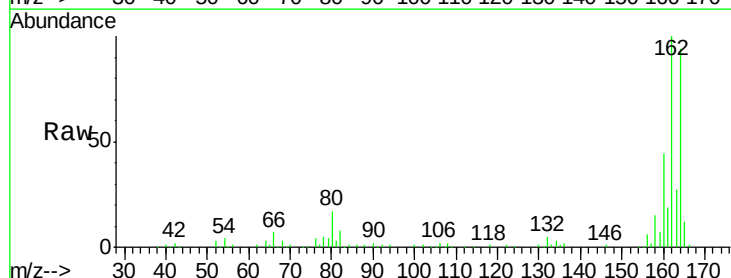
Manual Integrations

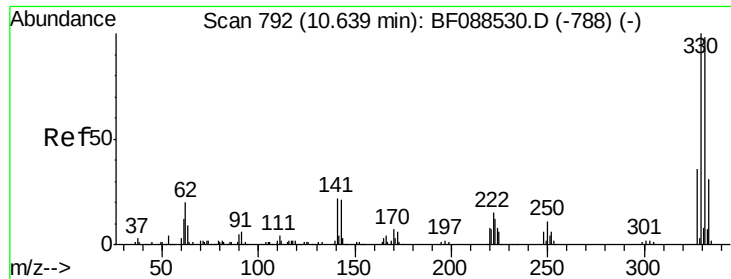
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.70 min Scan# 710  
Delta R.T. -0.05 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 98587 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 106.8 | 85.4  | 128.2 |
| 160       | 47.4  | 39.5  | 59.3  |





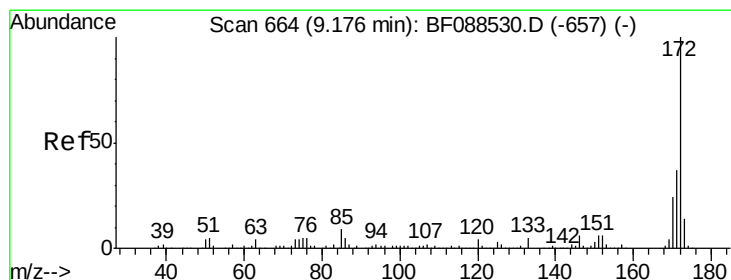
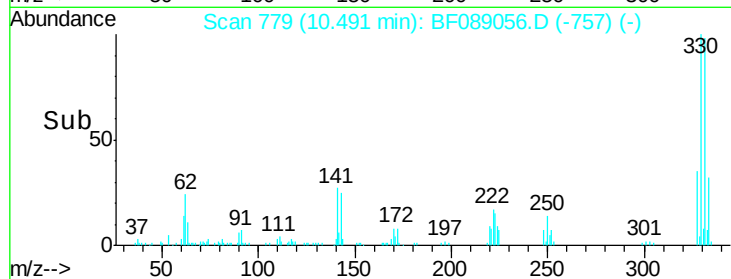
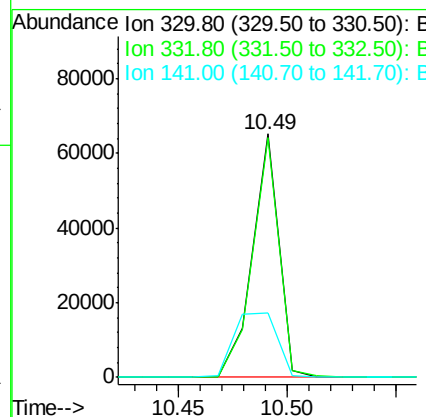
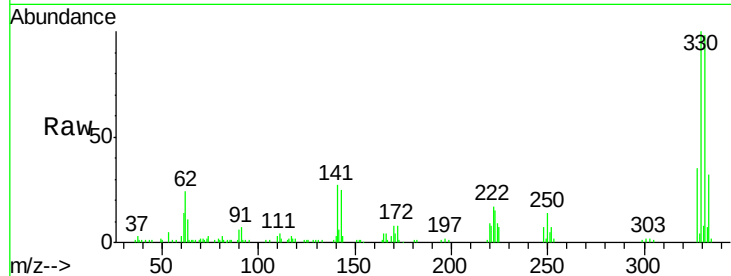
#41  
 2,4,6-Tribromophenol  
 Concen: 60.20 ng  
 RT: 10.49 min Scan# 779  
 Delta R.T. -0.05 min  
 Lab File: BF089056.D  
 Acq: 16 Jul 2016 15:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Q7-B2(0-5)C

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 55111 |       |       |
| 332     | 98.5  | 0.0   | 0.0   | 0.0   |
| 141     | 43.5  | 0.0   | 0.0   | 0.0   |

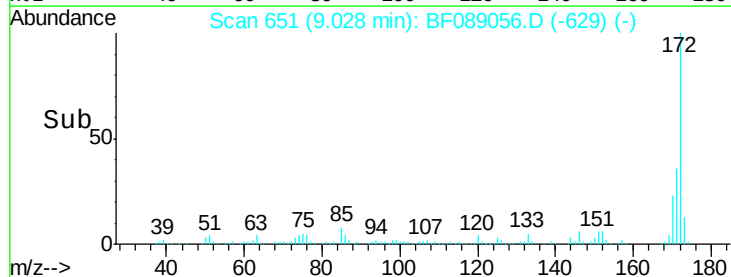
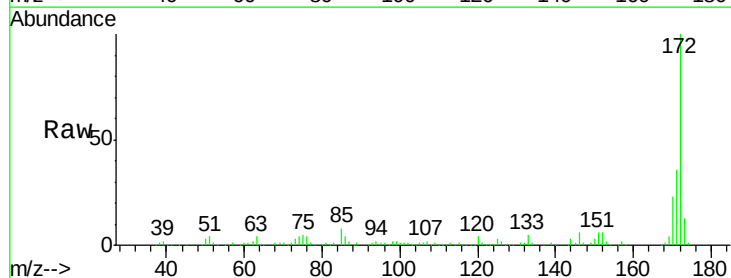
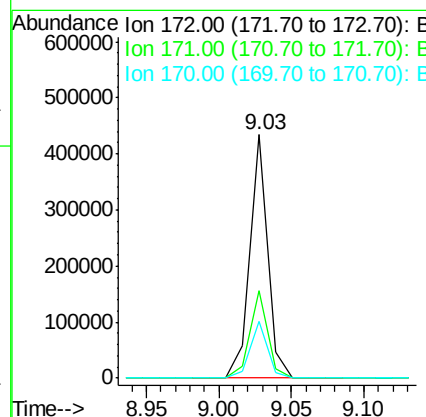
Manual Integrations

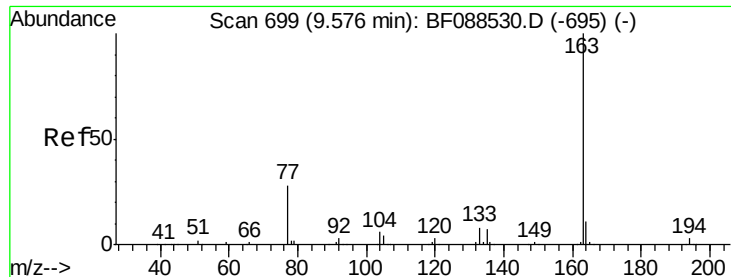
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#44  
 2-Fluorobiphenyl  
 Concen: 59.44 ng  
 RT: 9.03 min Scan# 651  
 Delta R.T. -0.05 min  
 Lab File: BF089056.D  
 Acq: 16 Jul 2016 15:40

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 370966 |       |       |
| 171     | 35.9  | 28.6   | 43.0  |       |
| 170     | 23.4  | 19.2   | 28.8  |       |





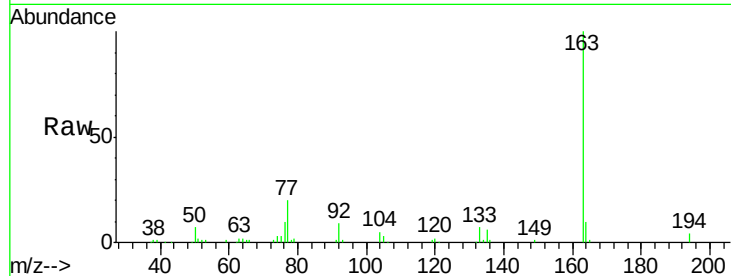
#49  
Dimethylphthalate  
Concen: 13.21 ng  
RT: 9.43 min Scan# 686  
Delta R.T. -0.06 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

Instrument :  
BNA\_F  
ClientSampleId :  
Q7-B2(0-5)C

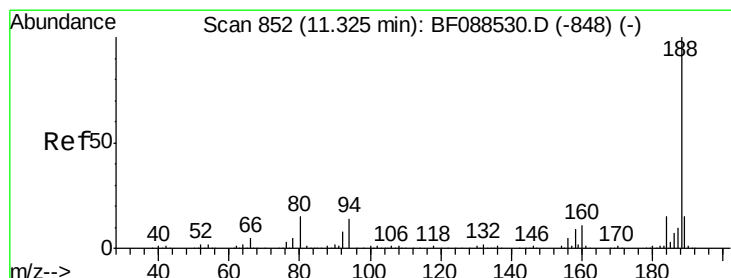
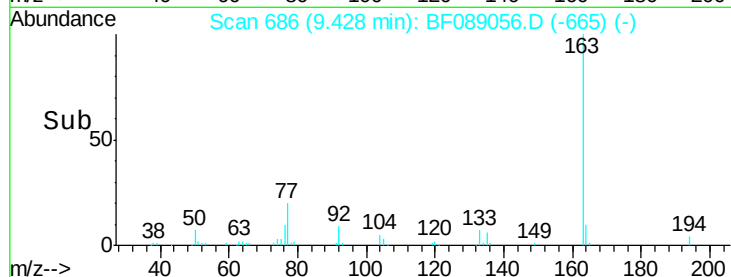
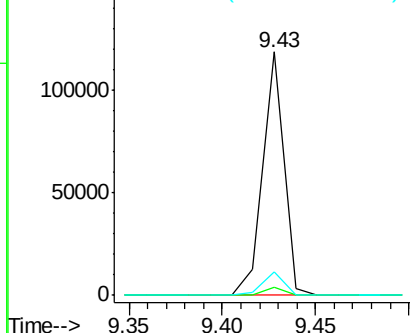
Tot Ion:163 Resp: 92807  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.8 4.2  
164 9.6 8.3 12.5

Manual Integrations

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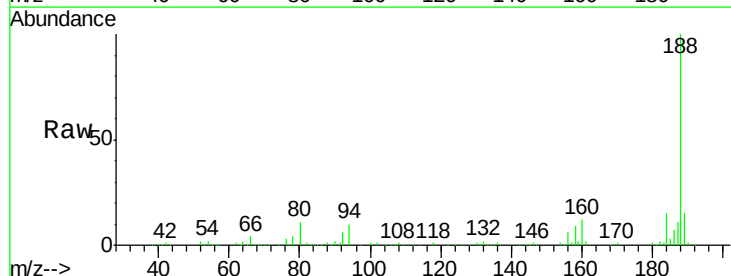


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

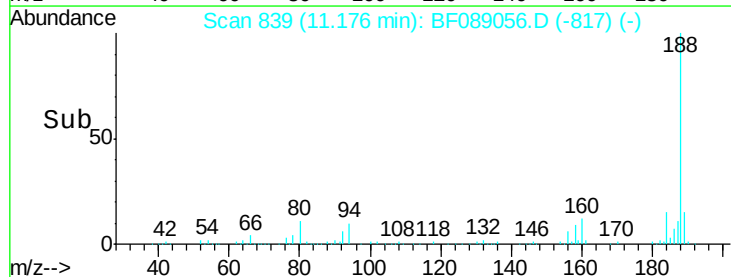
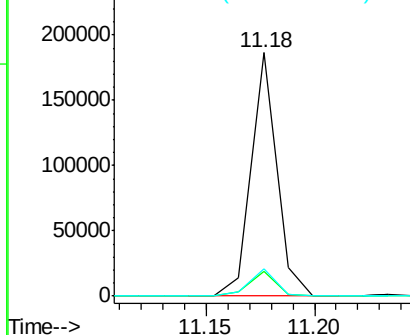


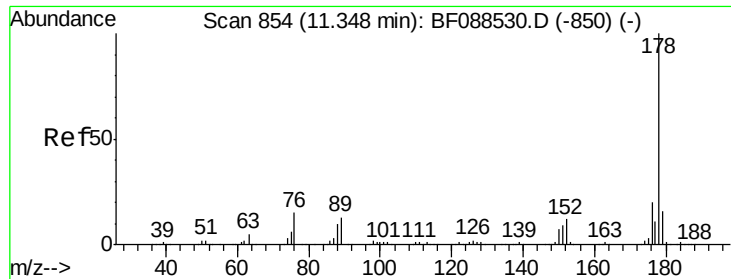
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.18 min Scan# 839  
Delta R.T. -0.05 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

Tgt Ion:188 Resp: 152363  
Ion Ratio Lower Upper  
188 100  
94 10.4 9.0 13.6  
80 11.4 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





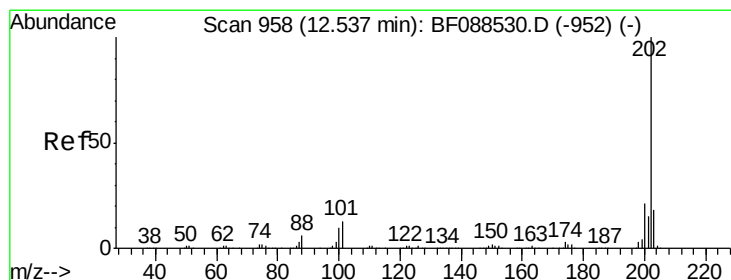
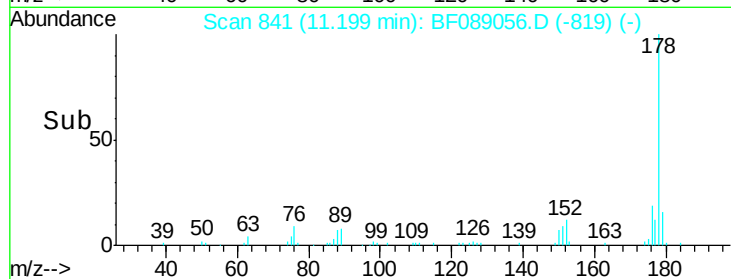
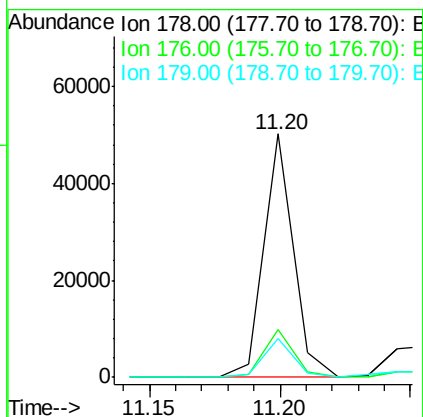
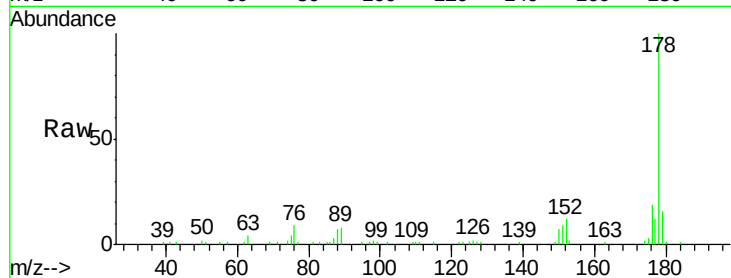
#70  
Phenanthrene  
Concen: 4.78 ng  
RT: 11.20 min Scan# 841  
Delta R.T. -0.05 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

Instrument :  
BNA\_F  
ClientSampleId :  
Q7-B2(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.8  | 23.6  |
| 179     | 15.9  | 13.0  | 19.4  |

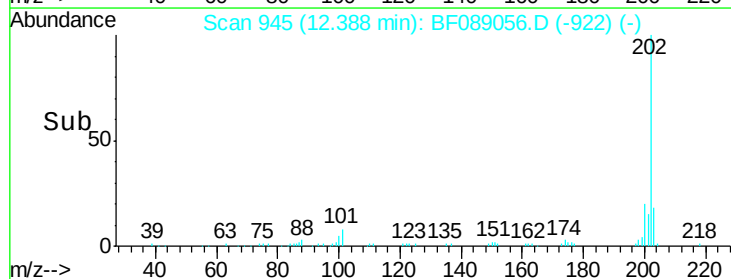
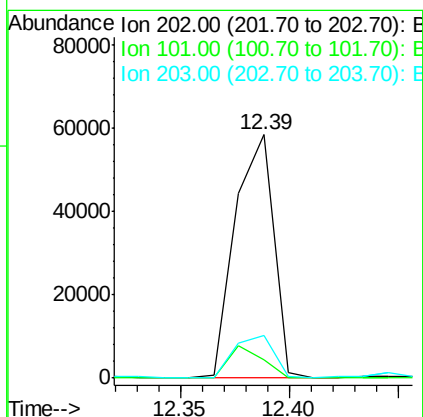
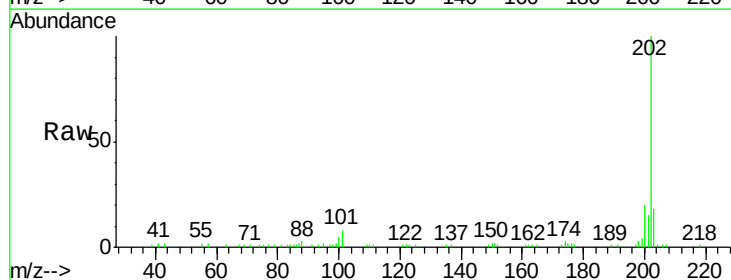
Manual Integrations

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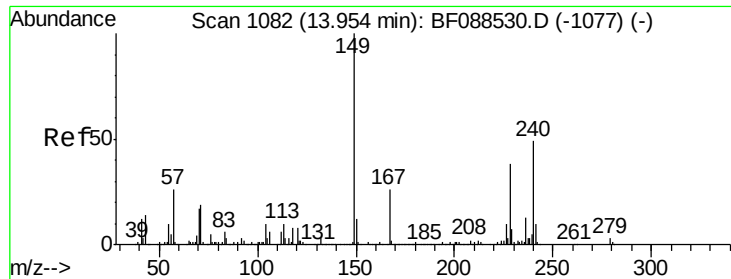


#74  
Fluoranthene  
Concen: 8.51 ng  
RT: 12.39 min Scan# 945  
Delta R.T. -0.03 min  
Lab File: BF089056.D  
Acq: 16 Jul 2016 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.6   | 0.0   | 33.1  |
| 203     | 17.7  | 0.0   | 38.1  |







#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.81 min Scan# 1069

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA\_F

ClientSampleId :

Q7-B2(0-5)C

Tot Ion:240 Resp: 114689

Ion Ratio Lower Upper

240 100

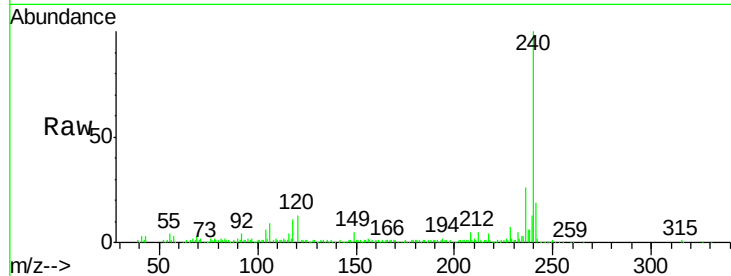
120 12.5 6.8 10.2#

236 26.2 20.2 30.2

Manual Integrations

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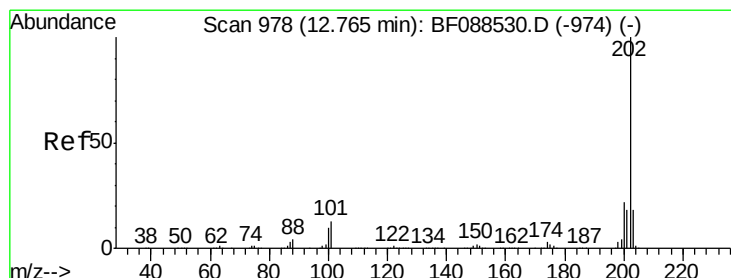
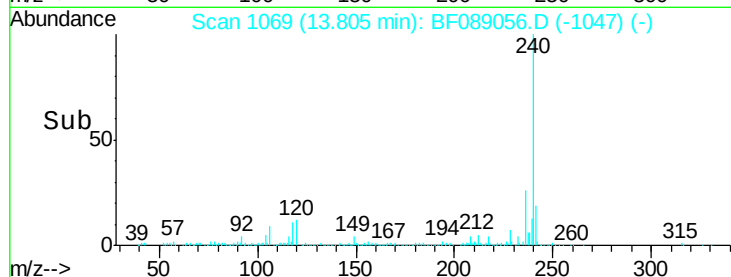
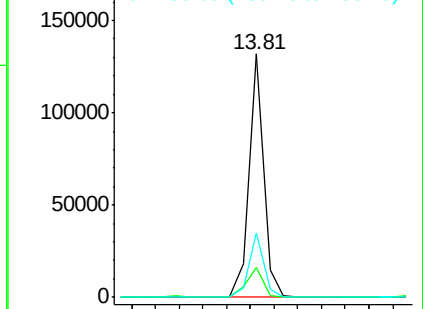
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 6.77 ng

RT: 12.61 min Scan# 964

Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

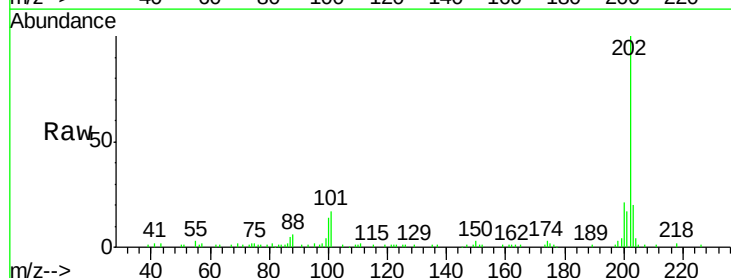
Tgt Ion:202 Resp: 65818

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

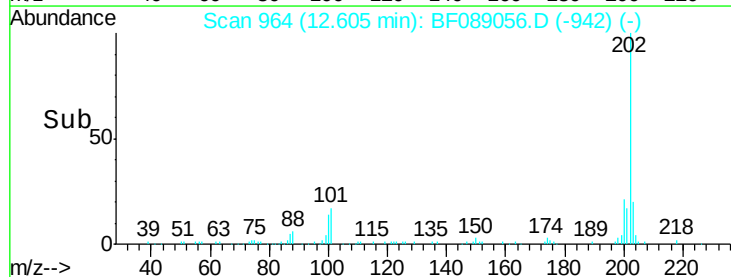
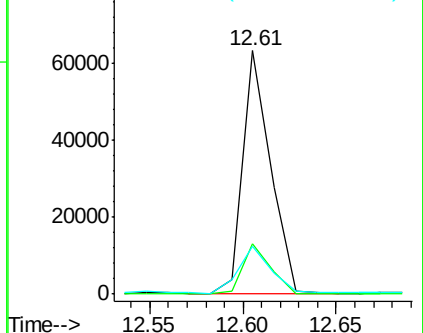
203 19.5 14.5 21.7

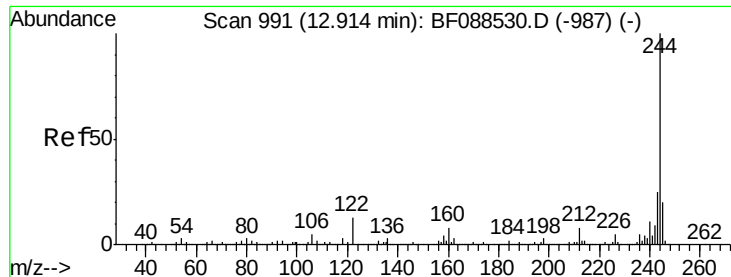


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





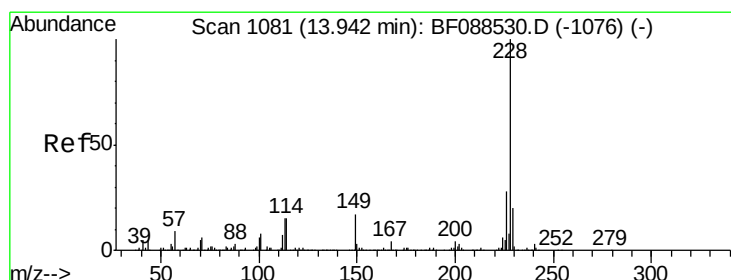
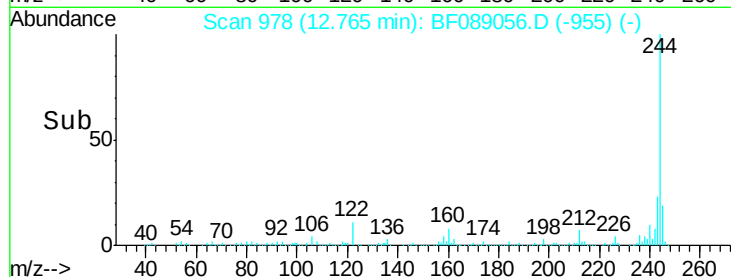
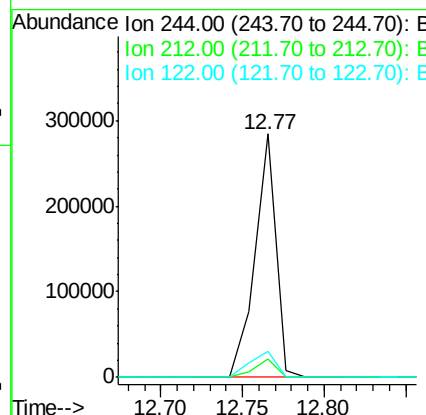
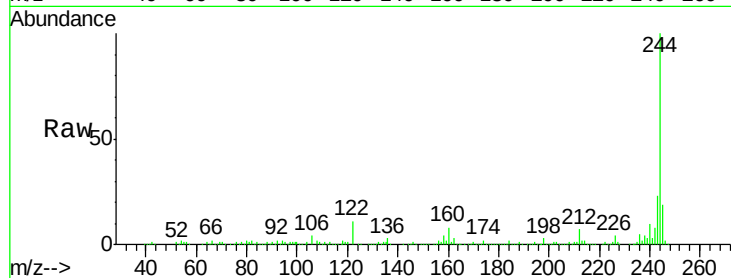
#78  
 Terphenyl-d14  
 Concen: 49.33 ng  
 RT: 12.77 min Scan# 978  
 Delta R.T. -0.03 min  
 Lab File: BF089056.D  
 Acq: 16 Jul 2016 15:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Q7-B2(0-5)C

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 6.0   | 9.0   |
| 122     | 10.6  | 11.2  | 16.8  |

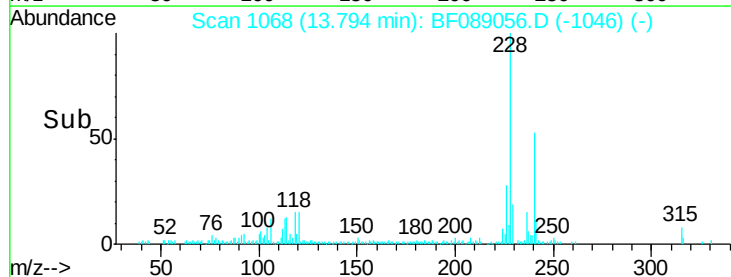
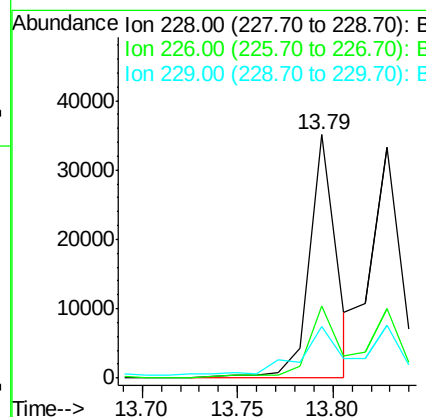
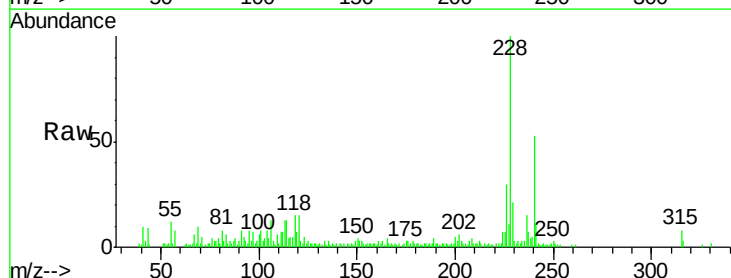
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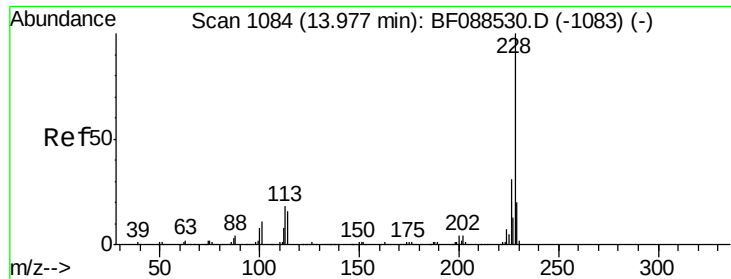
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#80  
 Benzo(a)anthracene  
 Concen: 4.71 ng m  
 RT: 13.79 min Scan# 1068  
 Delta R.T. -0.05 min  
 Lab File: BF089056.D  
 Acq: 16 Jul 2016 15:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 22.3  | 33.5  |
| 229     | 21.3  | 16.0  | 24.0  |





#82

Chrysene

Concen: 4.92 ng/mL

RT: 13.83 min Scan# 1071

Delta R.T. -0.05 min

Lab File: BF089056.D

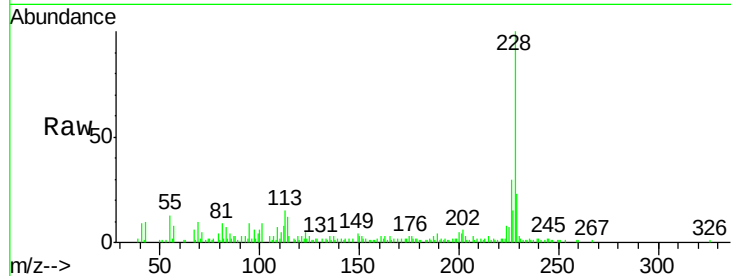
Acq: 16 Jul 2016 15:40

Instrument :

BNA\_F

ClientSampleId :

Q7-B2(0-5)C

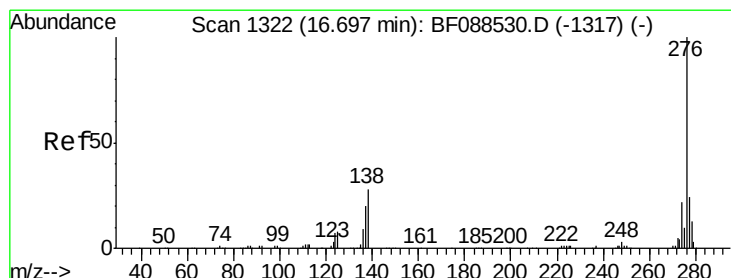
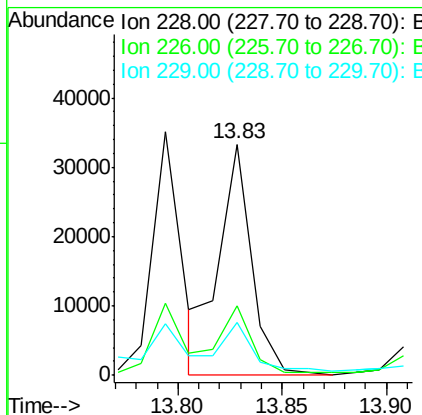


|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 35969 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.4  | 25.4  | 38.2  |
| 229      | 22.8  | 16.3  | 24.5  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.89 ng/mL

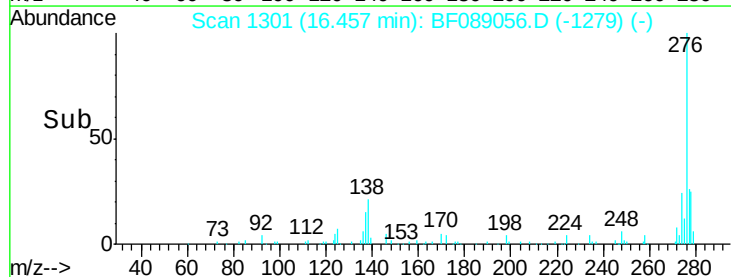
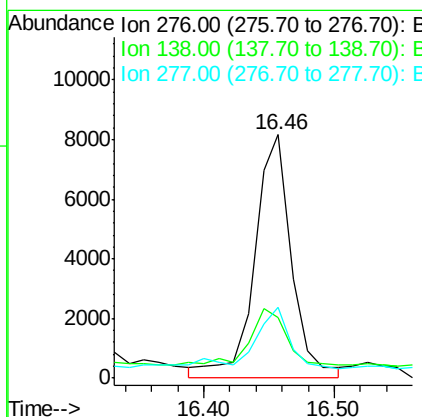
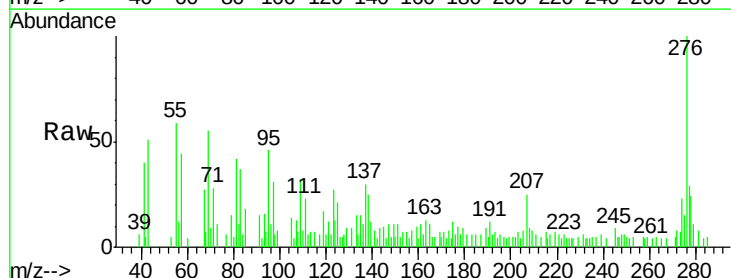
RT: 16.46 min Scan# 1301

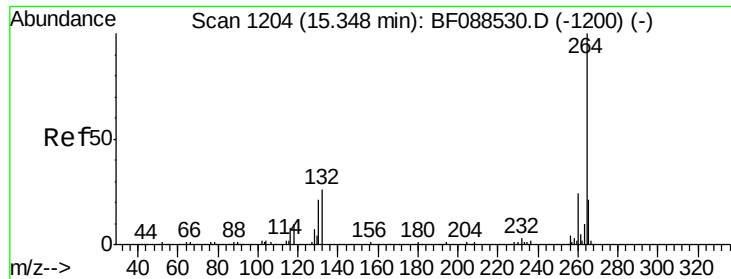
Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 16220 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 23.4  | 0.0   | 0.0#  |
| 277      | 24.0  | 0.0   | 0.0#  |





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.18 min Scan# 1189

Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA\_F

ClientSampled :

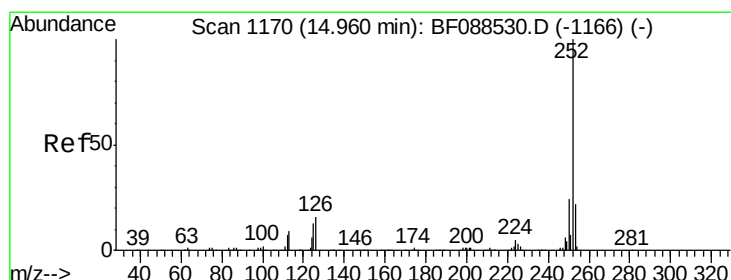
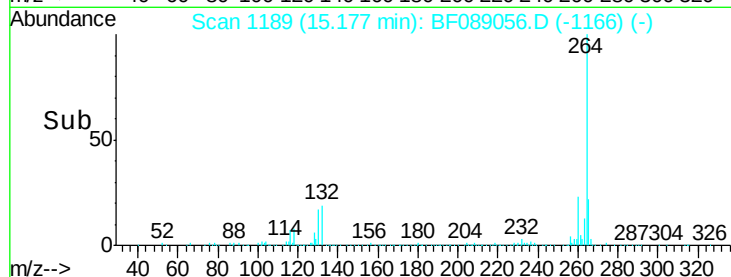
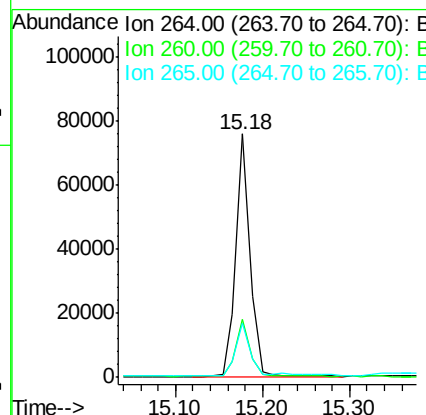
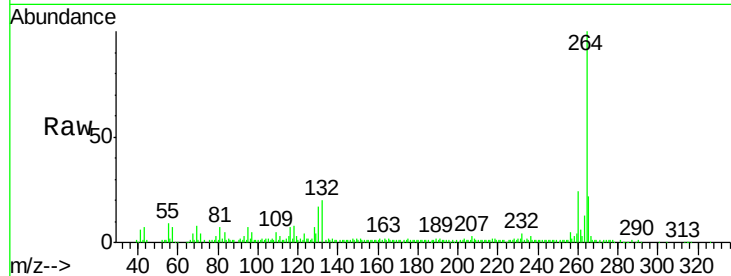
Q7-B2(0-5)C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 264   | Resp: | 88071 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 24.0  | 19.2  | 28.8  |
| 265       | 22.2  | 16.9  | 25.3  |

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#87

Benzo(b)fluoranthene

Concen: 7.11 ng m

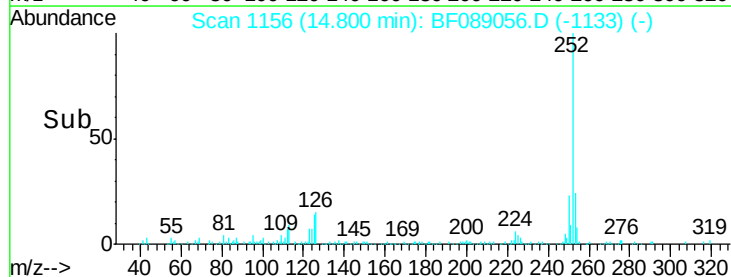
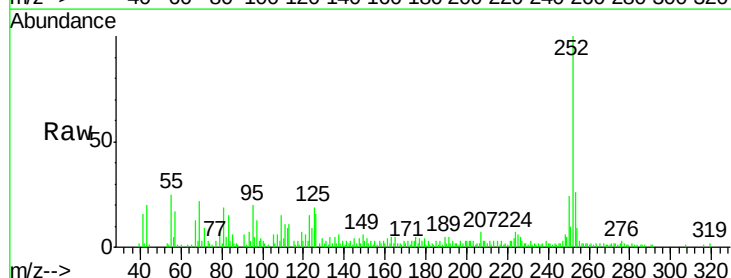
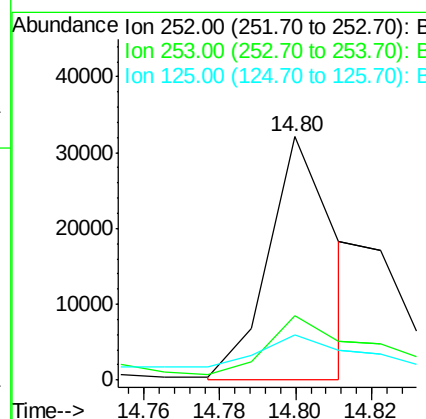
RT: 14.80 min Scan# 1156

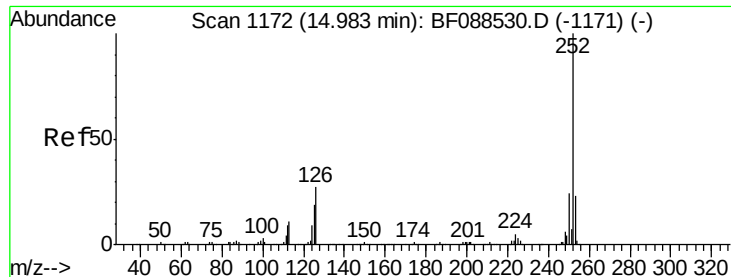
Delta R.T. -0.03 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 39307 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.2  | 17.4  | 26.2# |
| 125       | 18.8  | 7.1   | 10.7# |





#88

Benzo(k)fluoranthene

Concen: 3.23 ng

RT: 14.81 min Scan# 1157

Delta R.T. -0.06 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

Instrument :

BNA\_F

ClientSampleId :

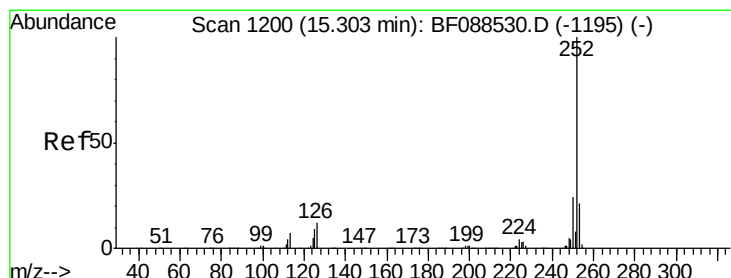
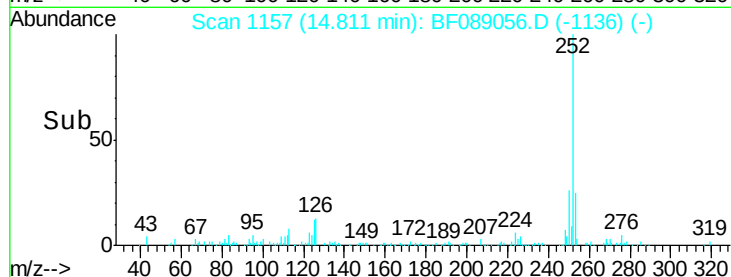
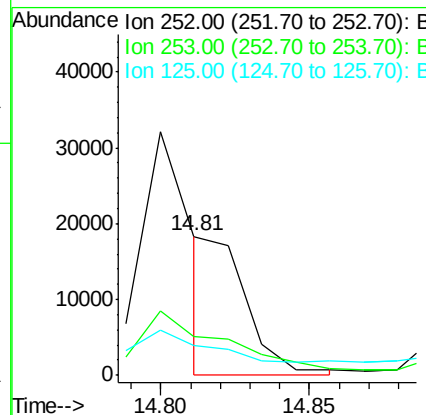
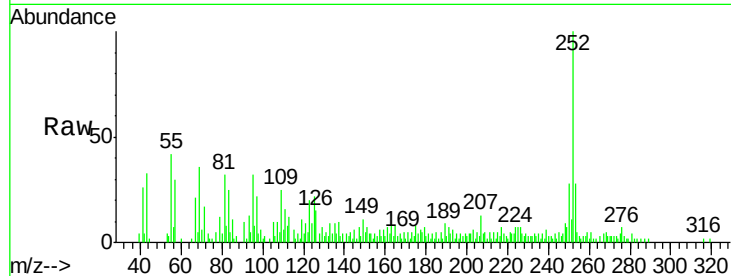
Q7-B2(0-5)C

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 15511 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.2  | 18.0  | 27.0# |
| 125       | 21.6  | 11.2  | 16.8# |

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#89

Benzo(a)pyrene

Concen: 5.34 ng

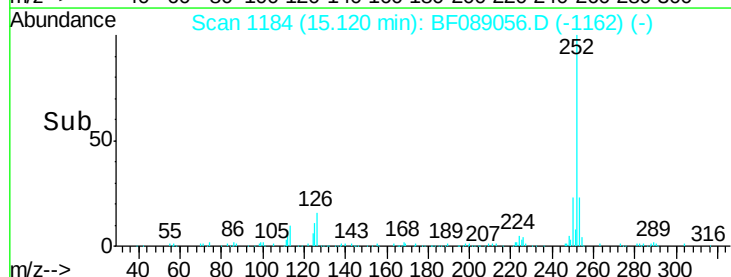
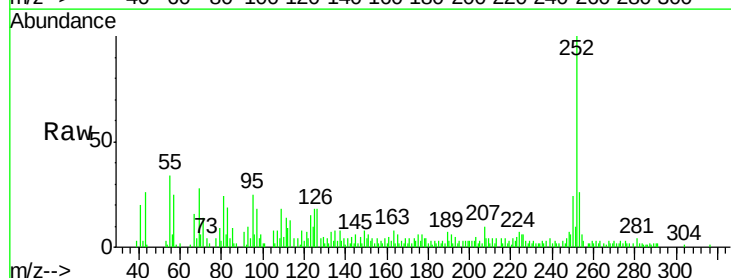
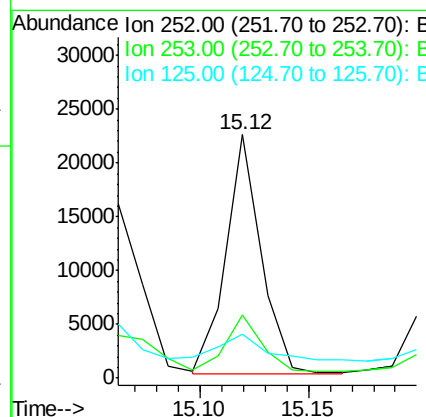
RT: 15.12 min Scan# 1184

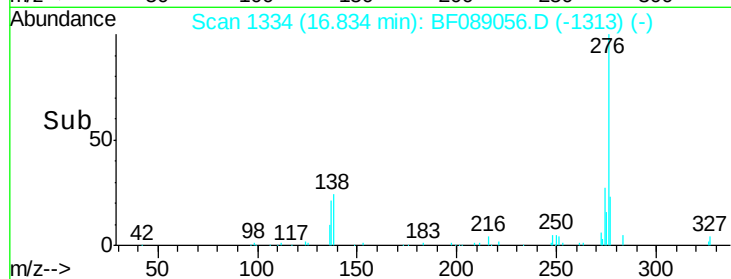
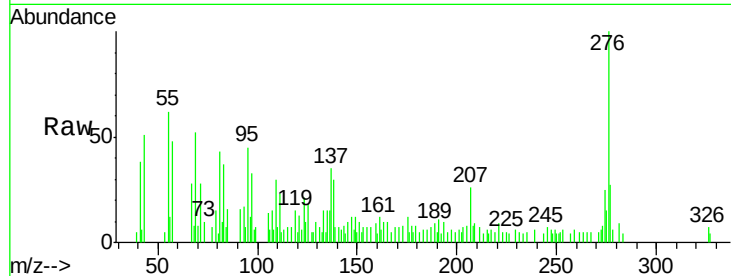
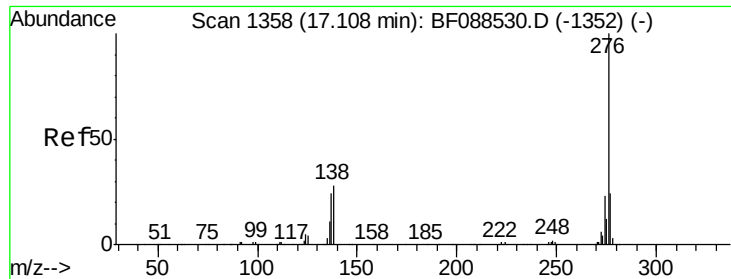
Delta R.T. -0.05 min

Lab File: BF089056.D

Acq: 16 Jul 2016 15:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24984 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 17.9  | 26.9  |
| 125       | 18.3  | 12.5  | 18.7  |





#91  
 Benzo(a,h,i)perylene  
 Concen: 3.95 ng  
 RT: 16.83 min Scan# 1334  
 Delta R.T. -0.06 min  
 Lab File: BF089056.D  
 Acq: 16 Jul 2016 15:40

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 15946 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.7  | 18.9  | 28.3  |
| 138       | 29.6  | 21.4  | 32.2  |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Q7-B2(0-5)C

Manual Integrations

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