

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090418\  
 Data File : BF108739.D  
 Acq On : 4 Sep 2018 14:33  
 Operator : JU/SJ  
 Sample : J4756-01 4X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WE-3

Manual Integrations  
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 9/5/2018 12:47:21 PM

Quant Time: Sep 04 16:51:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 30 15:06:55 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.00  | 152  | 54980    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.27  | 136  | 232345   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 10.03 | 164  | 105491   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.53 | 188  | 220267   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 14.18 | 240  | 241212   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.74 | 264  | 183674   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.75  | 112  | 59153m   | 18.69  | ng    | 0.10     |
| 7) Phenol-d6                | 6.65  | 99   | 79233m   | 17.48  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 59017m   | 12.89  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.83 | 330  | 23241    | 16.69  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.34  | 172  | 110154   | 14.04  | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.11 | 244  | 148287   | 11.94  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 9.74  | 163  | 25811    | 3.107  | ng    | 98       |
| 70) Phenanthrene            | 11.55 | 178  | 118324   | 10.643 | ng    | 98       |
| 71) Anthracene              | 11.61 | 178  | 56766m   | 4.859  | ng    |          |
| 74) Fluoranthene            | 12.75 | 202  | 230725   | 18.436 | ng    | 95       |
| 77) Pyrene                  | 12.98 | 202  | 223978   | 12.352 | ng    | 98       |
| 80) Benzo(a)anthracene      | 14.18 | 228  | 113135   | 7.694  | ng    | 97       |
| 82) Chrysene                | 14.21 | 228  | 103593   | 7.326  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 17.36 | 276  | 34207    | 3.479  | ng    | # 86     |
| 87) Benzo(b)fluoranthene    | 15.27 | 252  | 94266m   | 8.355  | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.29 | 252  | 45528m   | 4.073  | ng    |          |
| 89) Benzo(a)pyrene          | 15.68 | 252  | 74840    | 7.340  | ng    | 96       |
| 91) Benzo(a,h,i)perylene    | 17.85 | 276  | 39125    | 4.943  | ng    | # 84     |

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

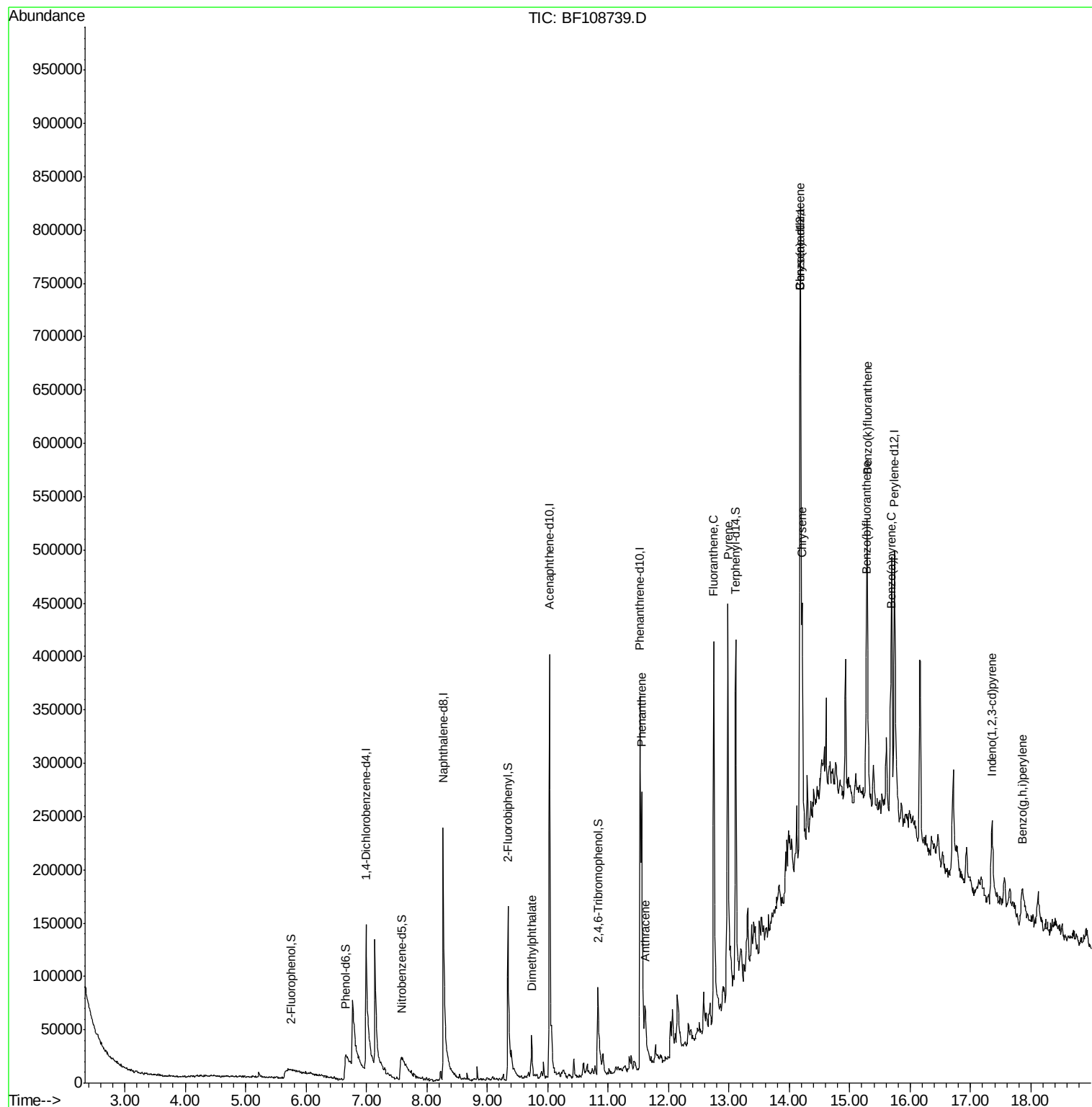
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090418\  
Data File : BF108739.D  
Acq On : 4 Sep 2018 14:33  
Operator : JU/SJ  
Sample : J4756-01 4X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

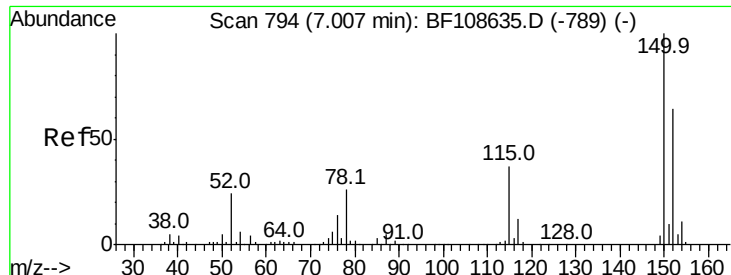
Instrument :  
BNA\_F  
ClientSampled :  
WE-3

Quant Time: Sep 04 16:51:10 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 30 15:06:55 2018  
Response via : Initial Calibration

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#1

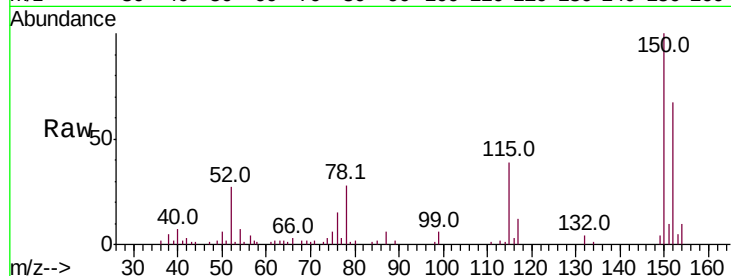
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

Instrument :  
BNA\_F  
ClientSampled :  
WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.6 | 124.6 | 186.8 |
| 115     | 58.3  | 50.1  | 75.1  |

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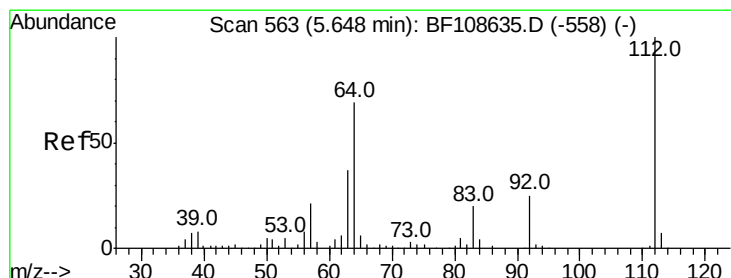
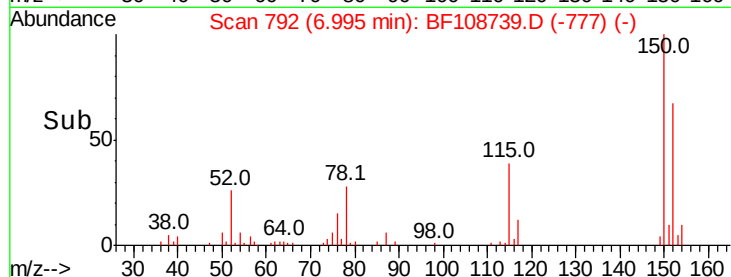
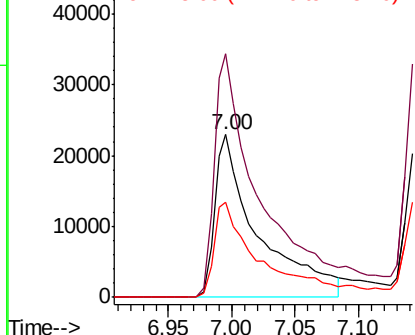


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

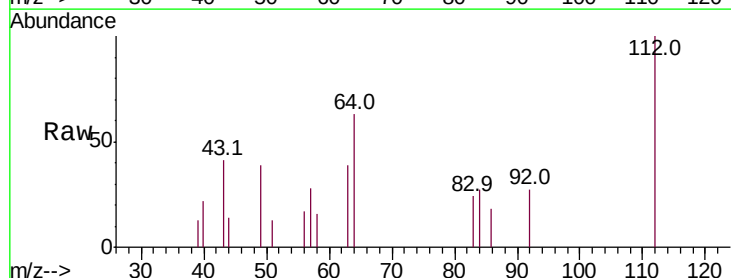
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 18.691 ng m  
RT: 5.75 min Scan# 580  
Delta R.T. 0.10 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.6  | 47.9  | 71.9  |
| 63      | 39.0  | 23.7  | 35.5  |

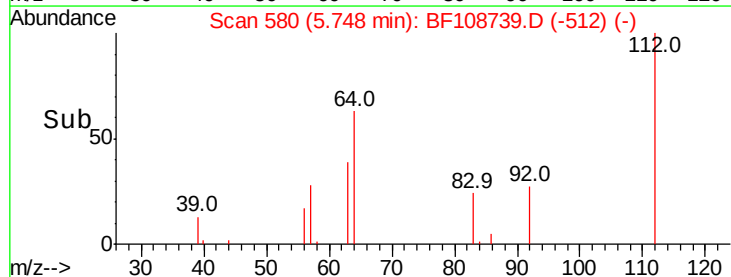
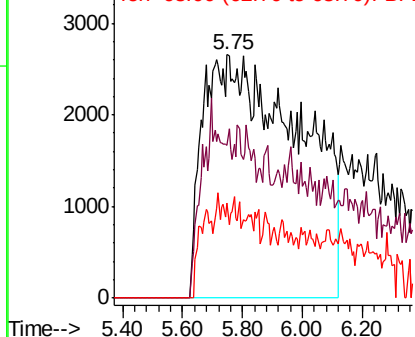


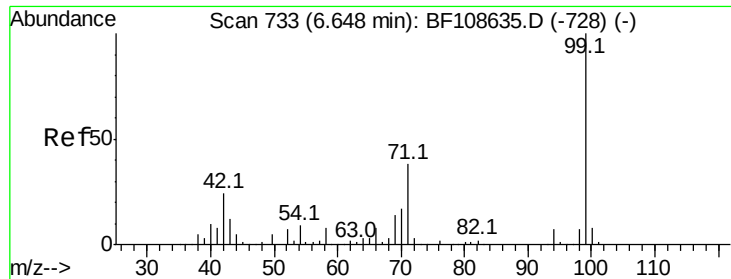
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 17.480 ng/mL

RT: 6.65 min Scan# 734

Delta R.T. 0.01 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

Instrument :

BNA\_F

ClientSampled :

WE-3

Tot Ion: 99 Resp: 79233

Ion Ratio Lower Upper

99 100

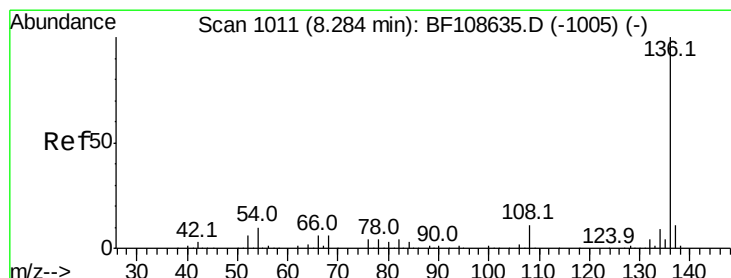
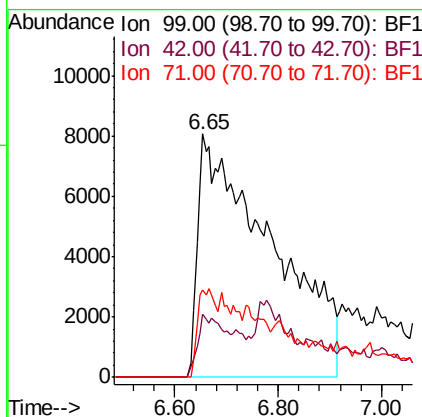
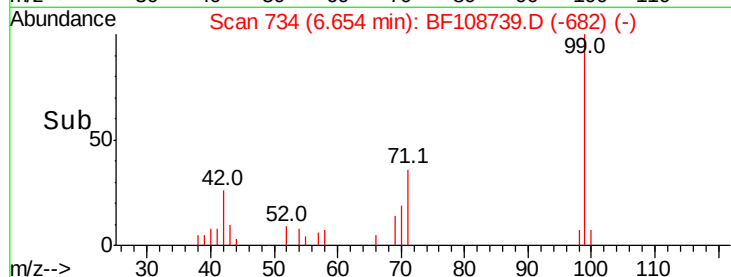
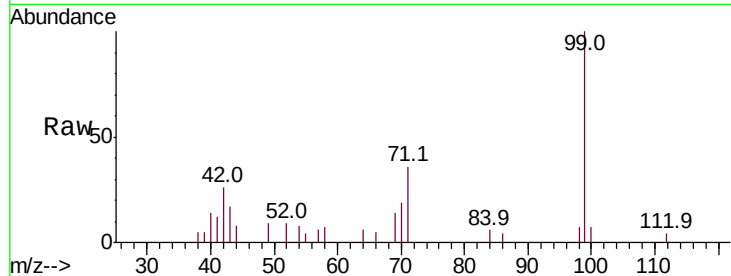
42 26.2 14.5 21.7#

71 35.8 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng/mL

RT: 8.27 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

Tgt Ion: 136 Resp: 232345

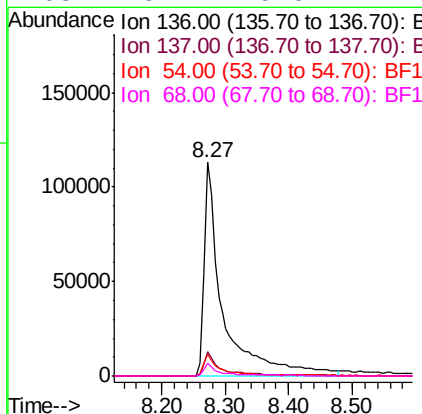
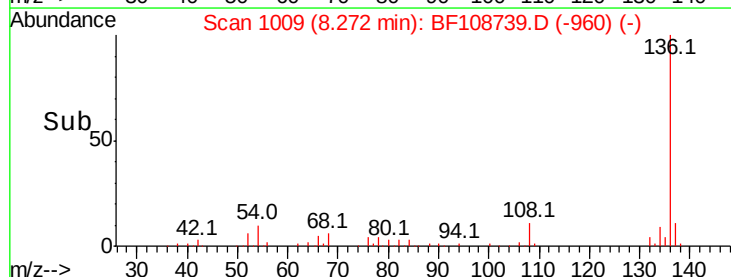
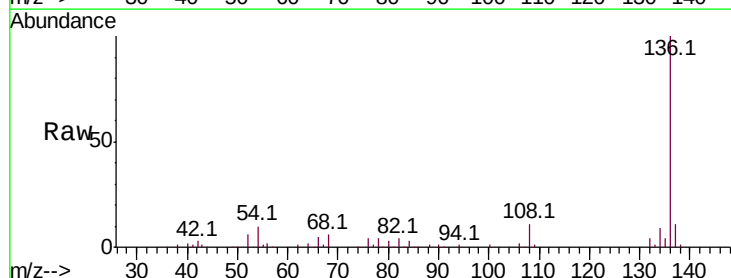
Ion Ratio Lower Upper

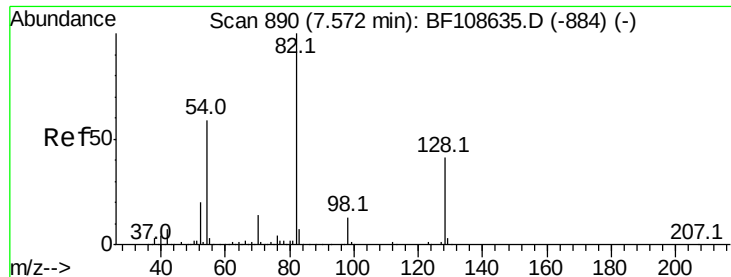
136 100

137 11.2 8.9 13.3

54 10.0 6.6 9.8#

68 5.7 5.0 7.4





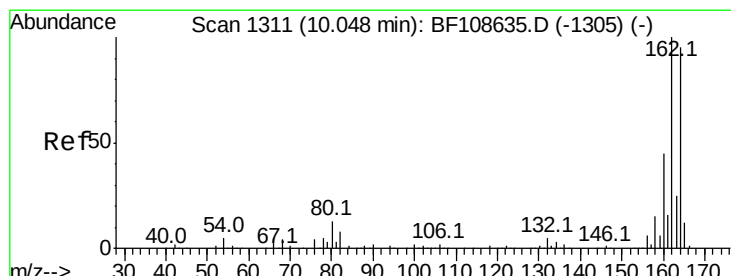
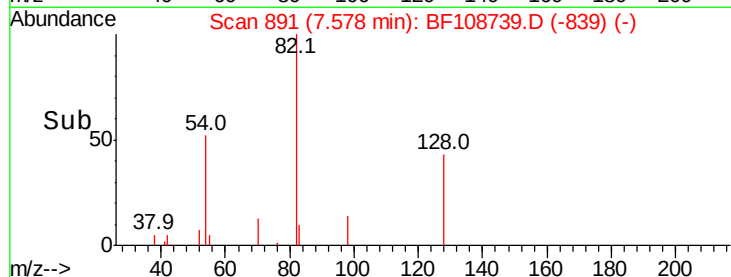
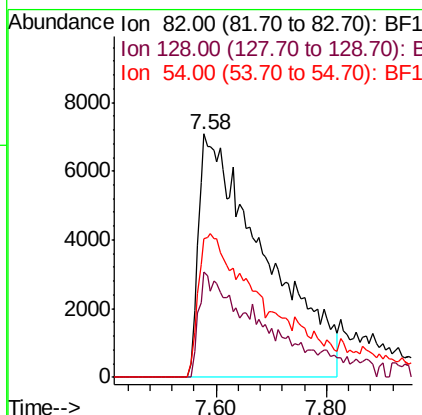
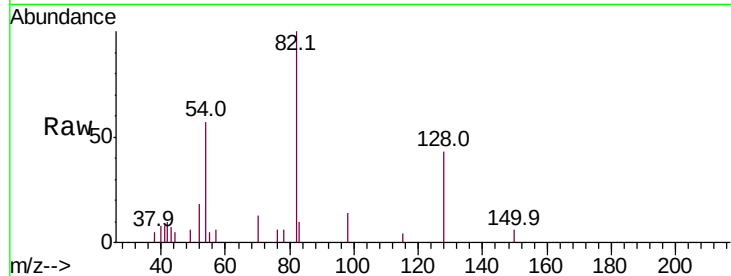
#23  
 Nitrobenzene-d5  
 Concen: 12.893 ng m  
 RT: 7.58 min Scan# 891  
 Delta R.T. 0.01 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

Instrument :  
 BNA\_F  
 ClientSampled :  
 WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.2  | 36.1  | 54.1  |
| 54      | 57.0  | 41.4  | 62.2  |

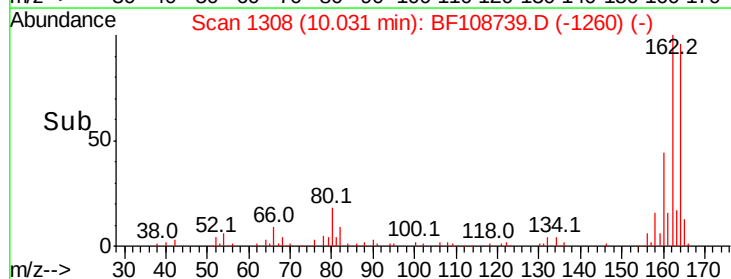
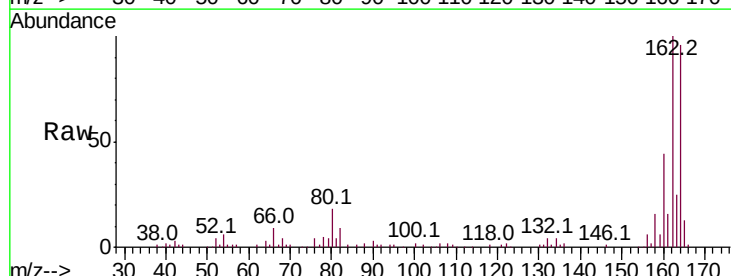
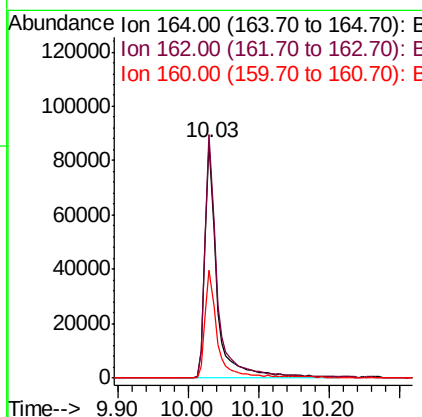
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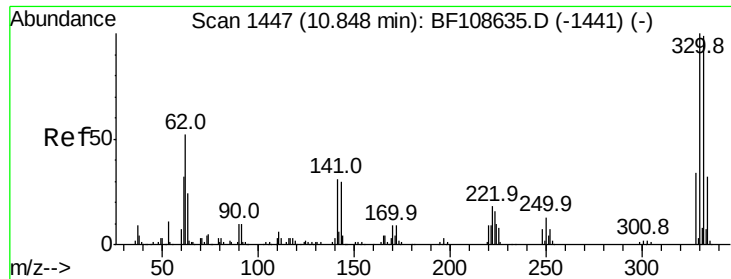
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.03 min Scan# 1308  
 Delta R.T. -0.02 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.6 | 86.1  | 129.1 |
| 160     | 45.8  | 38.3  | 57.5  |





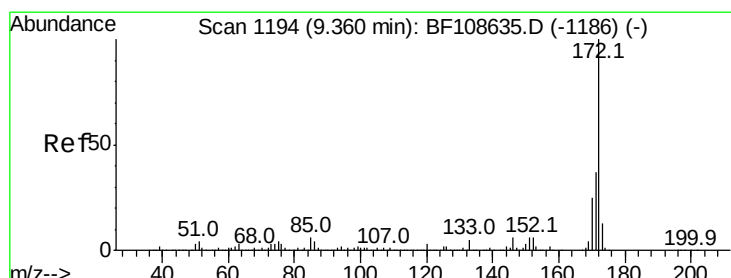
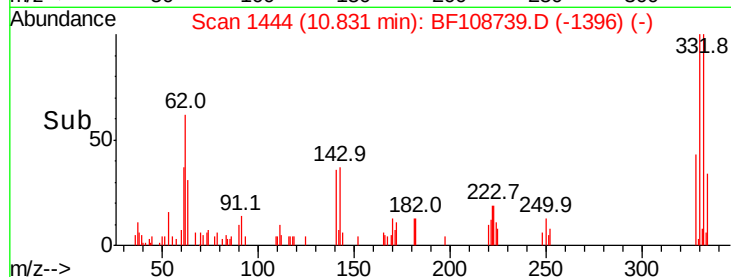
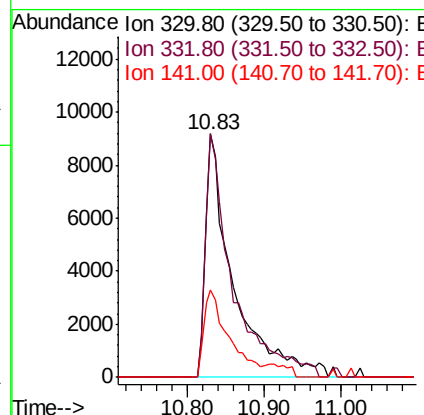
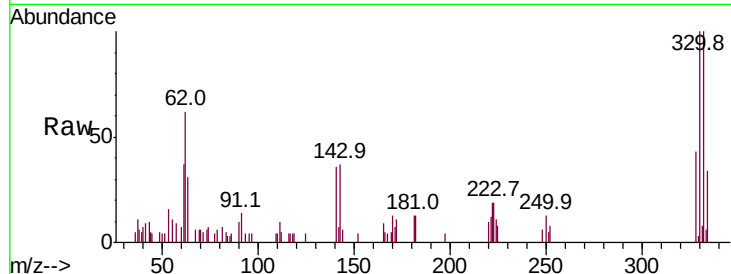
#41  
 2,4,6-Tribromophenol  
 Concen: 16.689 ng  
 RT: 10.83 min Scan# 1444  
 Delta R.T. -0.02 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

Instrument :  
 BNA\_F  
 ClientSampled :  
 WE-3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.0  |      | 77.0  | 115.6 |
| 141     | 31.8  |      | 29.9  | 44.9  |

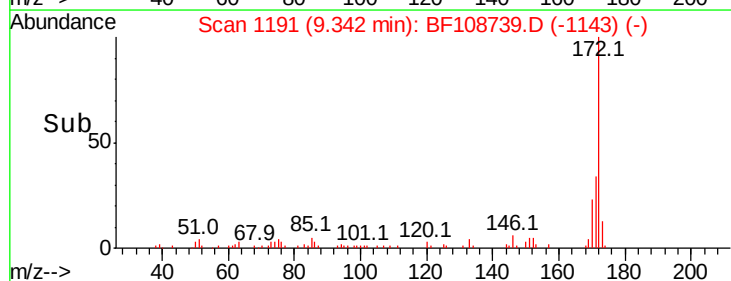
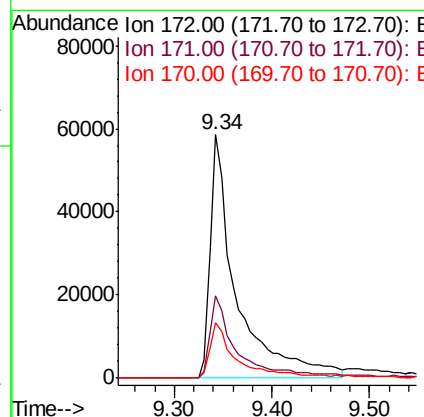
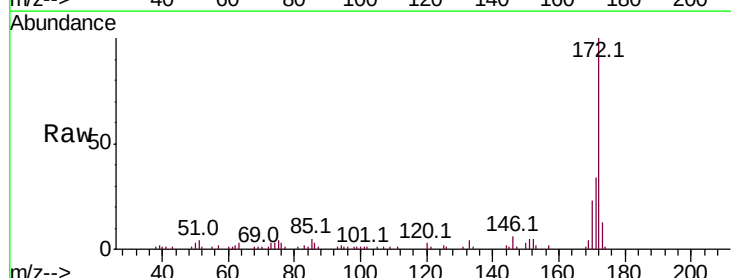
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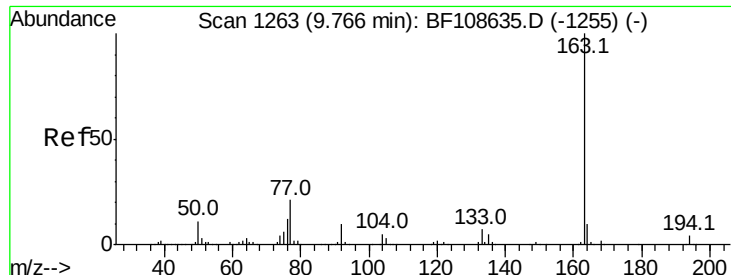
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#44  
 2-Fluorobiphenyl  
 Concen: 14.040 ng  
 RT: 9.34 min Scan# 1191  
 Delta R.T. -0.02 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 33.9  |      | 29.7  | 44.5  |
| 170     | 22.7  |      | 19.6  | 29.4  |





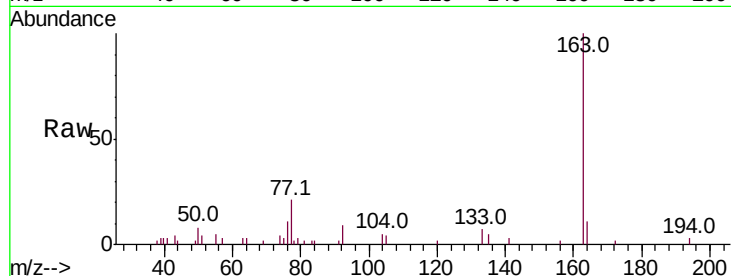
#49  
Dimethylphthalate  
Concen: 3.107 ng  
RT: 9.74 min Scan# 1258  
Delta R.T. -0.03 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

Instrument :  
BNA\_F  
ClientSampleId :  
WE-3

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 25811 |       |       |
| 194     | 3.2   |       | 2.7   | 4.1   |
| 164     | 10.9  |       | 8.2   | 12.2  |

Manual Integrations  
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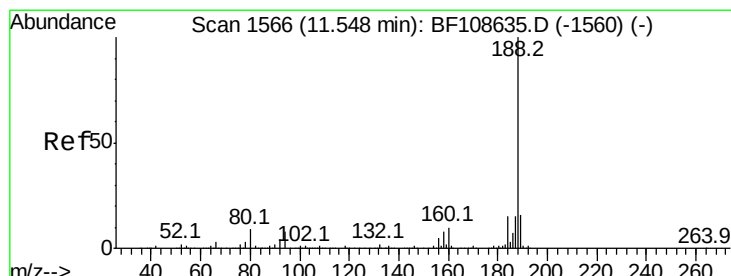
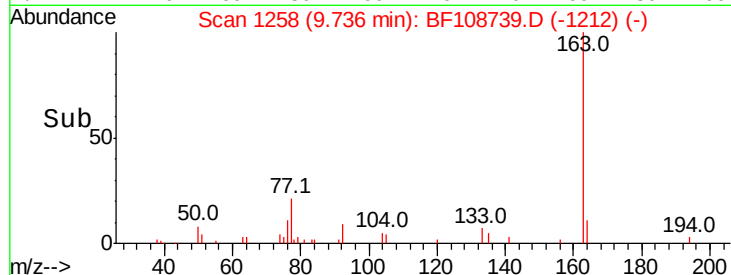
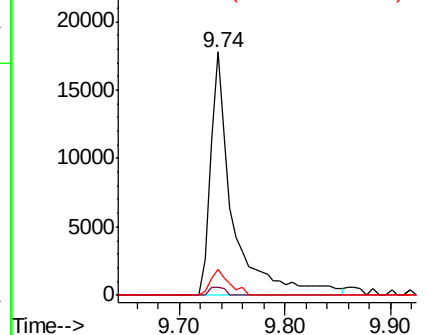


Abundance

Ion 163.00 (162.70 to 163.70): E

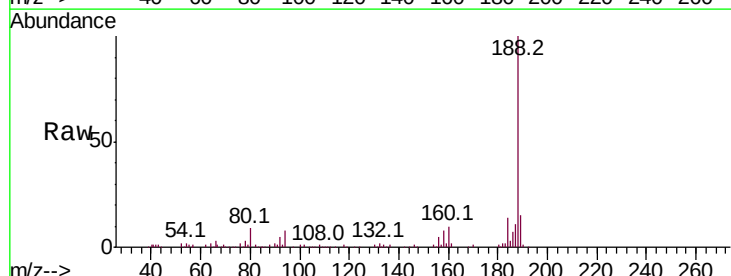
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.53 min Scan# 1563  
Delta R.T. -0.02 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 220267 |       |       |
| 94      | 7.6   |        | 8.5   | 12.7# |
| 80      | 8.7   |        | 9.2   | 13.8# |

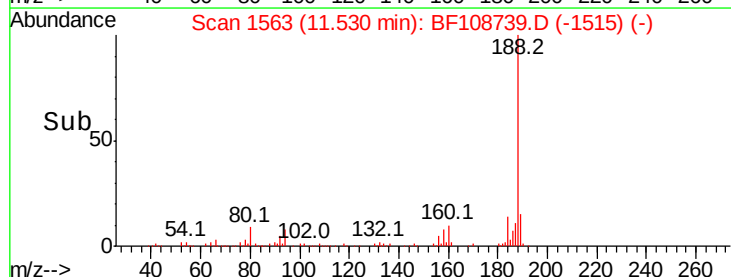
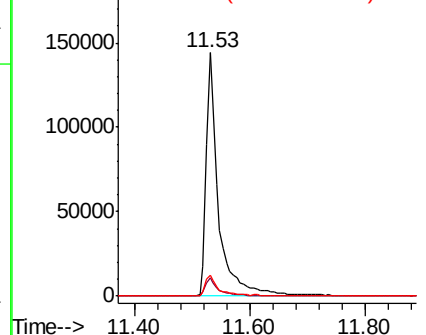


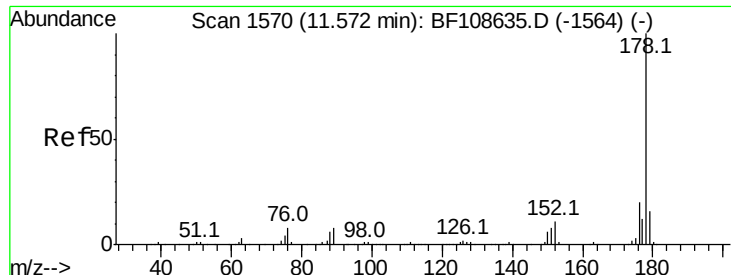
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





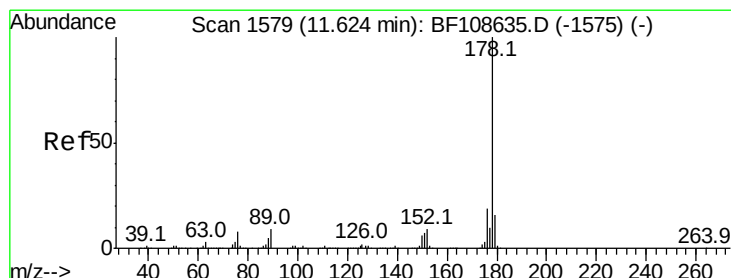
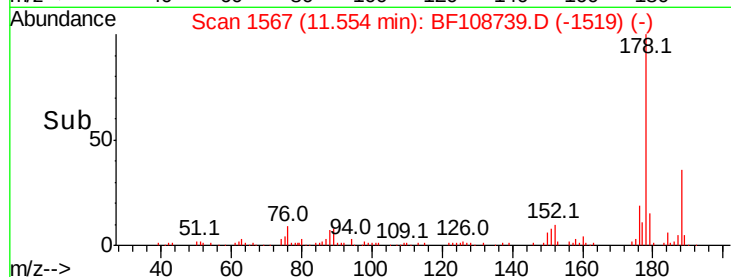
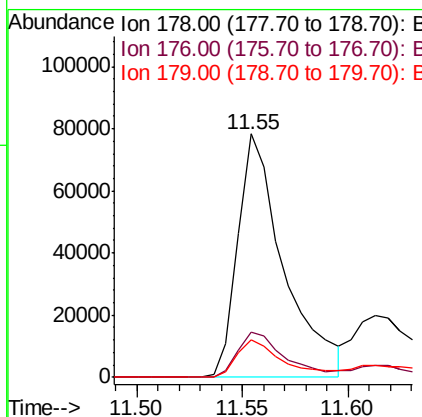
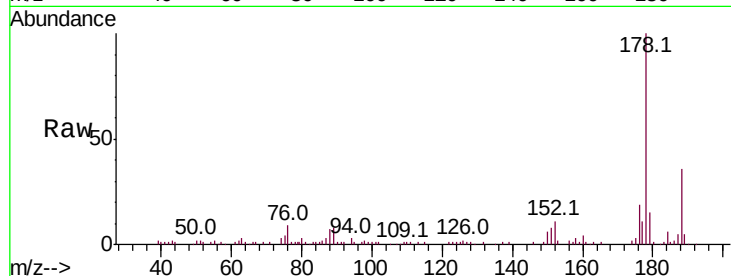
#70  
 Phenanthrene  
 Concen: 10.643 ng  
 RT: 11.55 min Scan# 1567  
 Delta R.T. -0.02 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

Instrument :  
 BNA\_F  
 ClientSampled :  
 WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 15.8  | 23.8  |
| 179     | 15.2  | 13.0  | 19.6  |

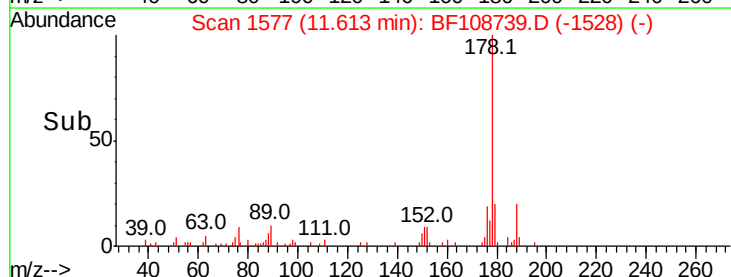
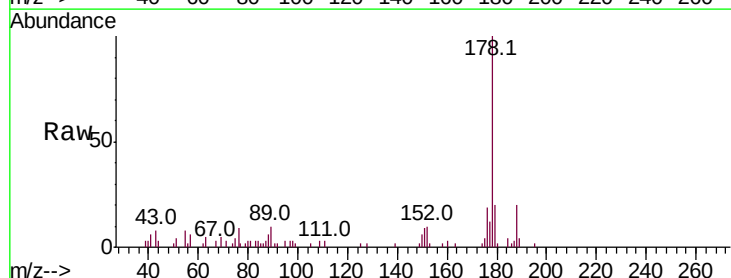
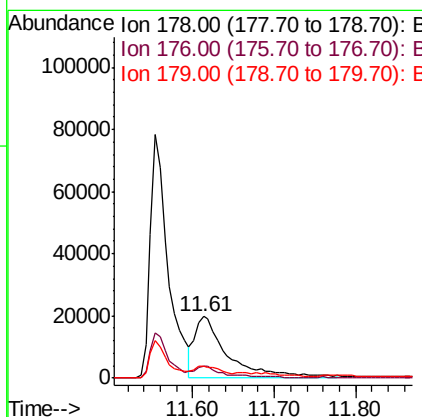
Manual Integrations  
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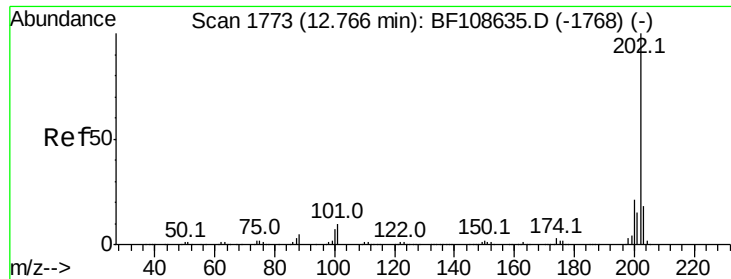


#71  
 Anthracene  
 Concen: 4.859 ng m  
 RT: 11.61 min Scan# 1577  
 Delta R.T. -0.01 min  
 Lab File: BF108739.D  
 Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.4  | 23.2  |
| 179     | 19.7  | 12.6  | 19.0# |







#74

Fluoranthene

Concen: 18.436 ng

RT: 12.75 min Scan# 1770

Delta R.T. -0.02 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

Instrument :

BNA\_F

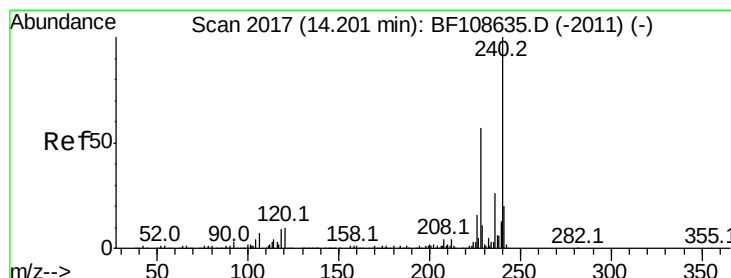
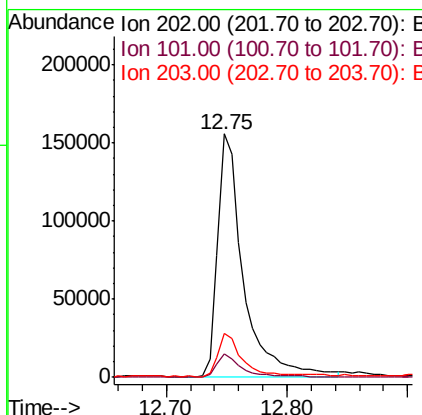
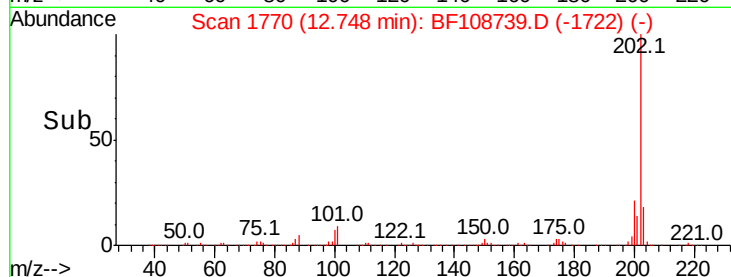
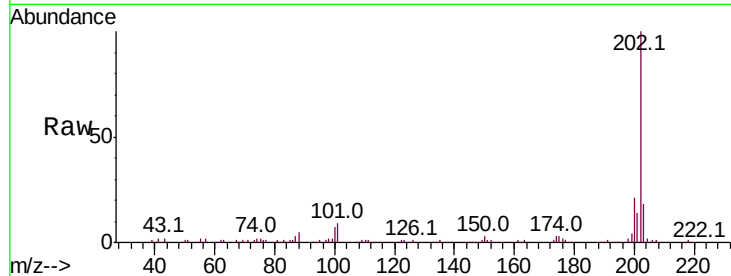
ClientSampleId :

WE-3

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 9.4   | 0.0  | 34.1  |       |
| 203     | 18.3  | 0.0  | 38.1  |       |

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#75

Chrysene-d12

Concen: 20.000 ng

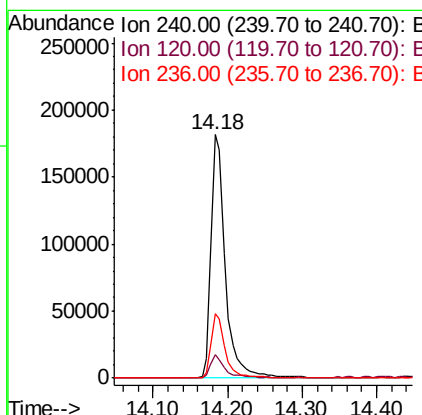
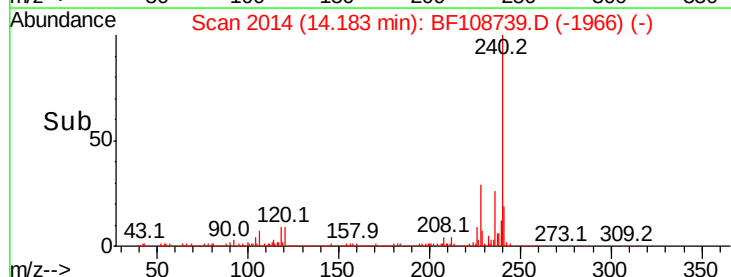
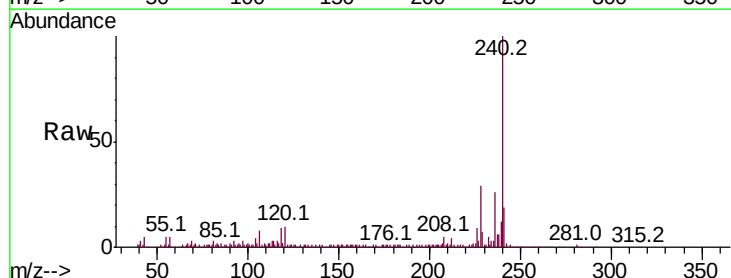
RT: 14.18 min Scan# 2014

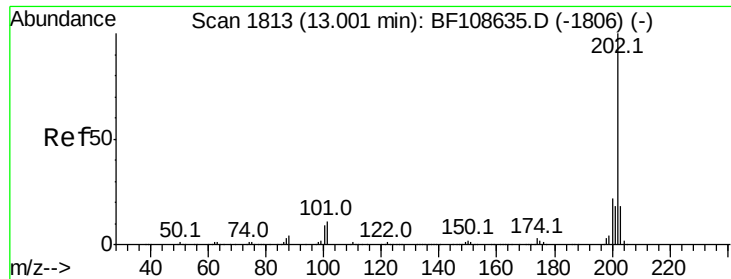
Delta R.T. -0.02 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 9.7   | 9.5  | 14.3  |       |
| 236     | 26.3  | 20.7 | 31.1  |       |





#77

Pvrene

Concen: 12.352 ng

RT: 12.98 min Scan# 1810

Delta R.T. -0.02 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

Instrument :

BNA\_F

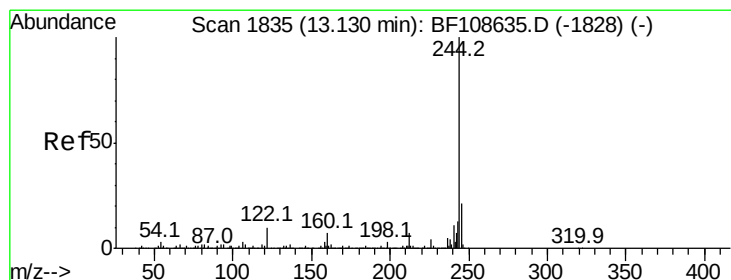
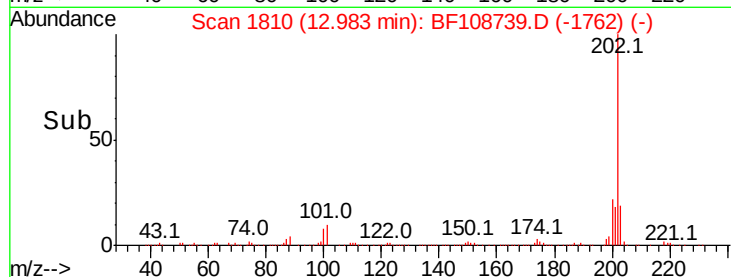
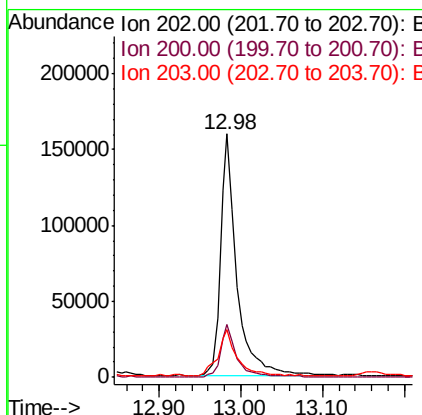
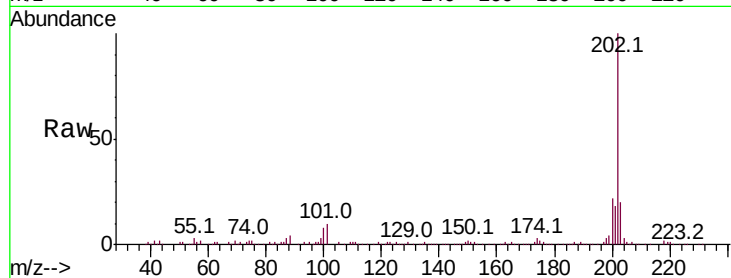
ClientSampleId :

WE-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 223978 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.5  | 17.4  | 26.2   |
| 203       | 19.6  | 14.3  | 21.5   |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 11.944 ng

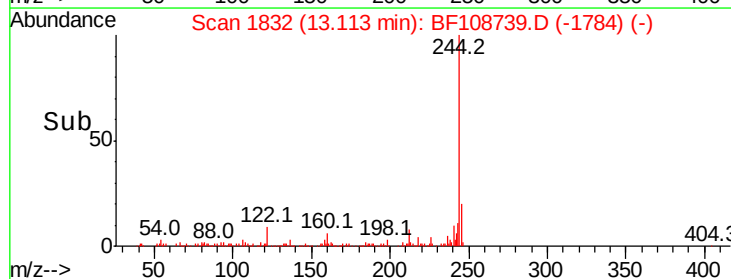
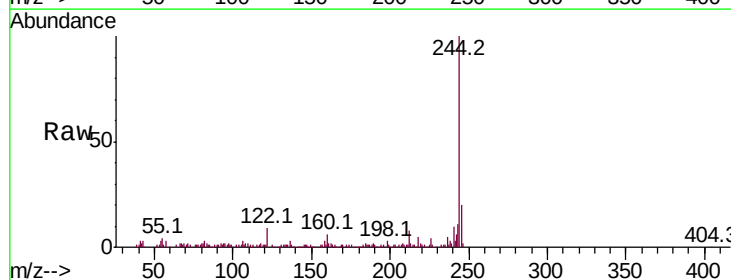
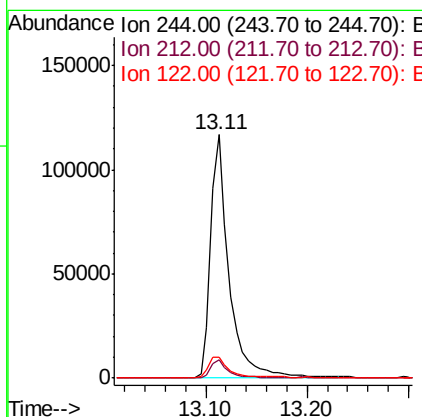
RT: 13.11 min Scan# 1832

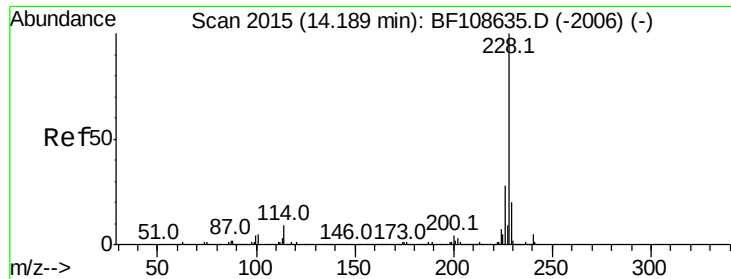
Delta R.T. -0.02 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 148287 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.7   | 5.4   | 8.0    |
| 122       | 8.8   | 11.0  | 16.4#  |





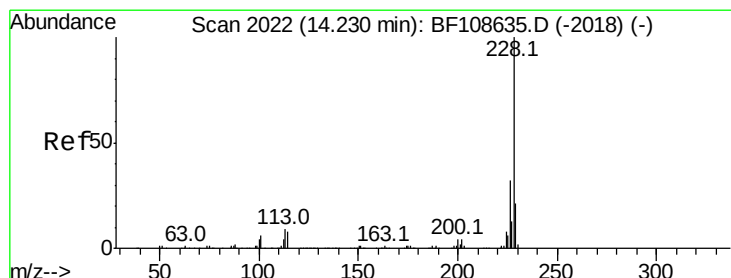
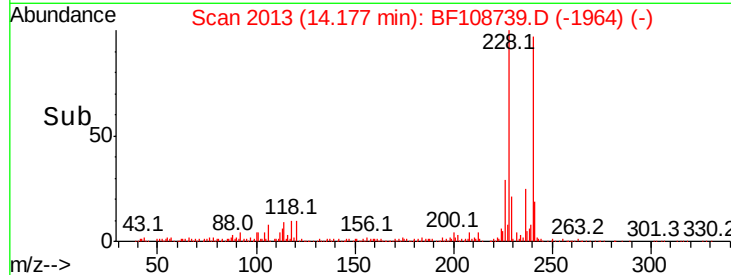
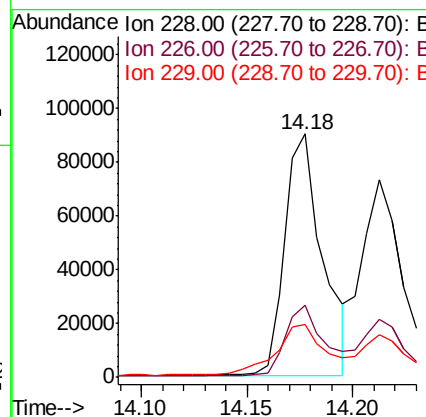
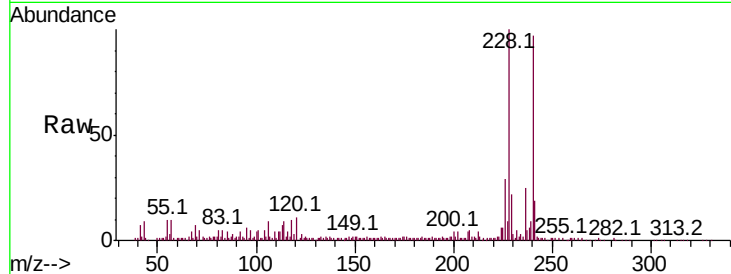
#80  
Benzo(a)anthracene  
Concen: 7.694 ng  
RT: 14.18 min Scan# 2013  
Delta R.T. -0.01 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

Instrument :  
BNA\_F  
ClientSampleId :  
WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.4  | 22.6  | 33.8  |
| 229     | 21.7  | 15.8  | 23.6  |

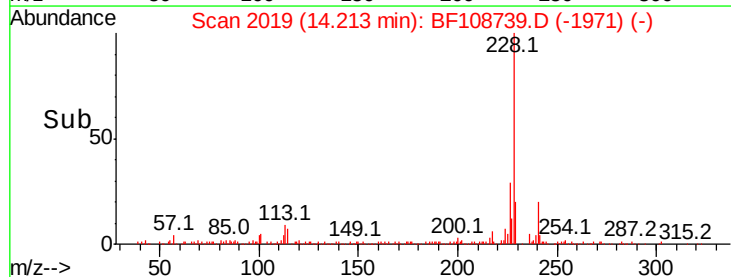
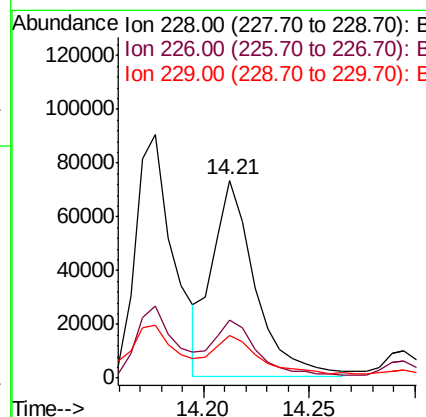
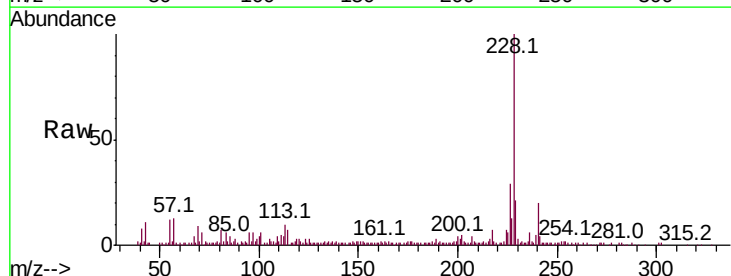
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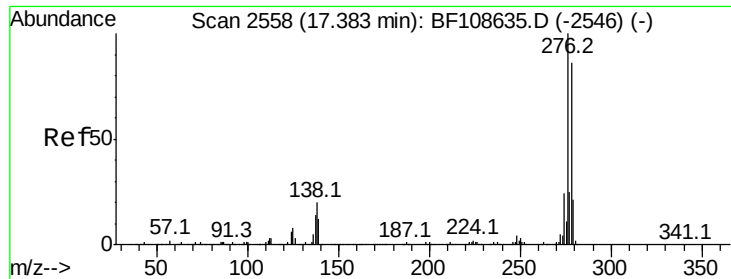
Sohil  
9/5/2018 12:47:21 PM



#82  
Chrysene  
Concen: 7.326 ng  
RT: 14.21 min Scan# 2019  
Delta R.T. -0.02 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 25.0  | 37.6  |
| 229     | 21.4  | 16.2  | 24.4  |





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.479 ng

RT: 17.36 min Scan# 2554

Delta R.T. -0.02 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

Instrument :

BNA\_F

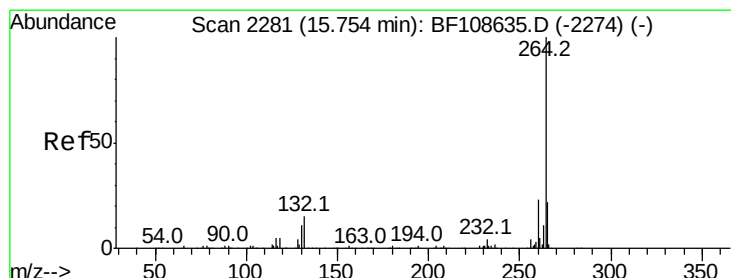
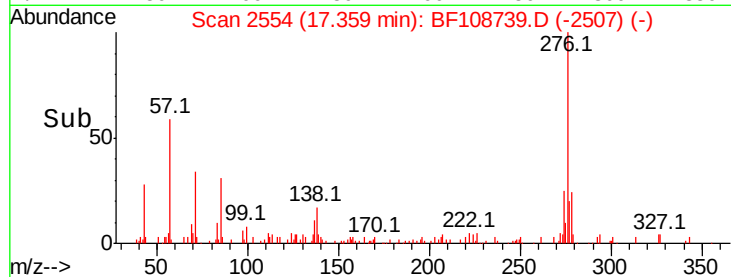
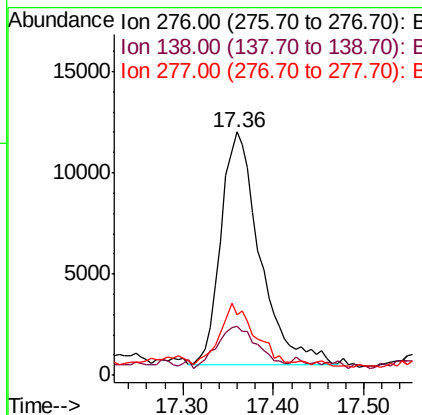
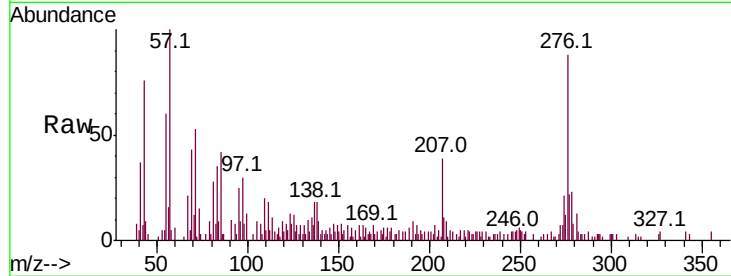
ClientSampleId :

WE-3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 34207 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.9  | 25.0  | 37.6# |
| 277       | 23.4  | 20.1  | 30.1  |

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#86

Perylene-d12

Concen: 20.000 ng

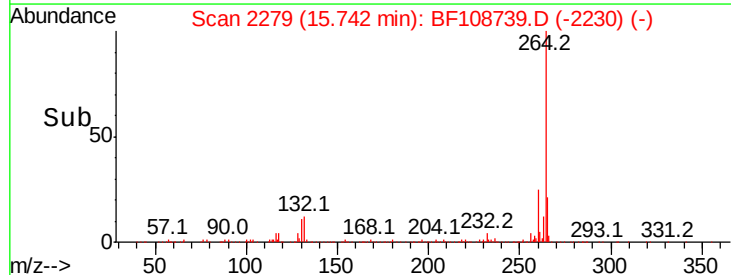
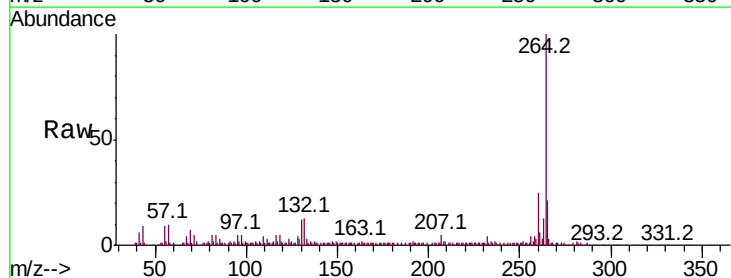
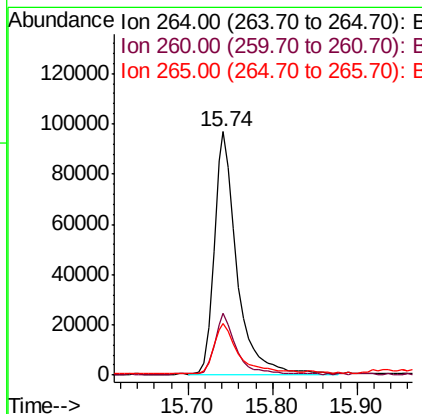
RT: 15.74 min Scan# 2279

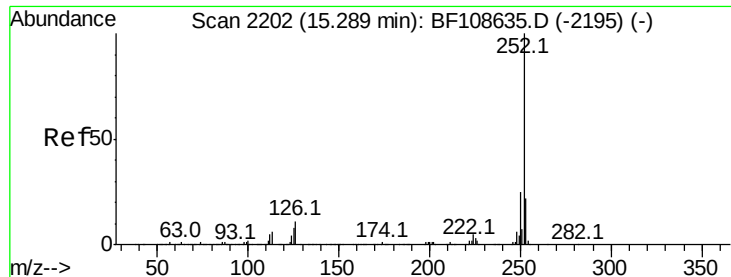
Delta R.T. -0.01 min

Lab File: BF108739.D

Acq: 4 Sep 2018 14:33

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 183674 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 25.2  | 19.2  | 28.8   |
| 265       | 21.4  | 17.5  | 26.3   |





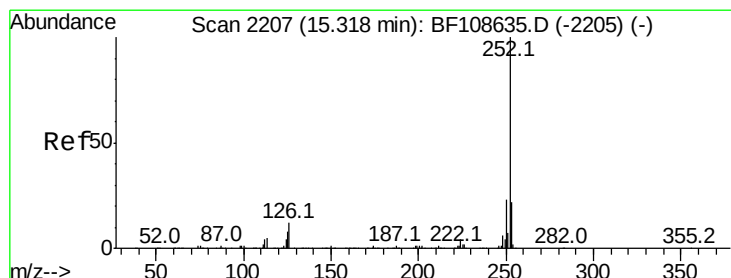
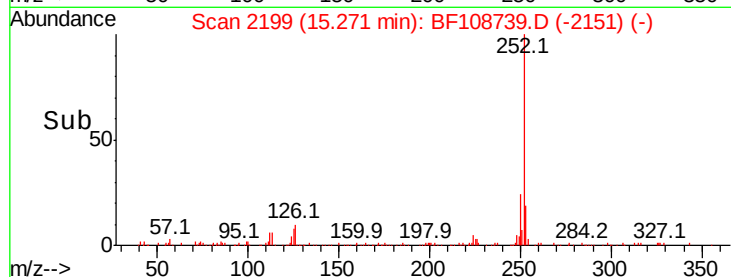
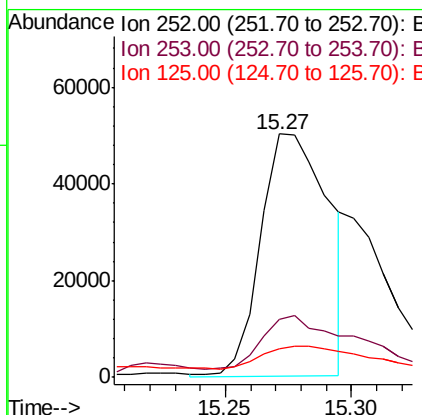
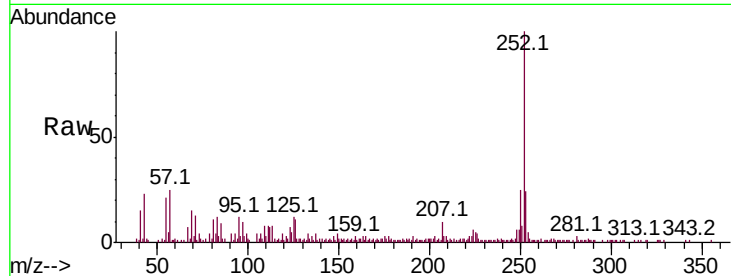
#87  
Benzo(b)fluoranthene  
Concen: 8.355 ng m  
RT: 15.27 min Scan# 2199  
Delta R.T. -0.02 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

Instrument :  
BNA\_F  
ClientSampleId :  
WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.0  | 25.6  |
| 125     | 11.6  | 9.0   | 13.6  |

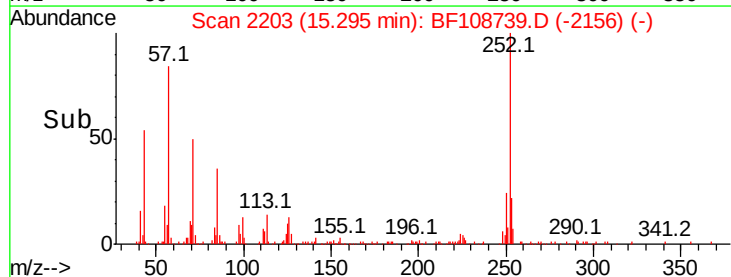
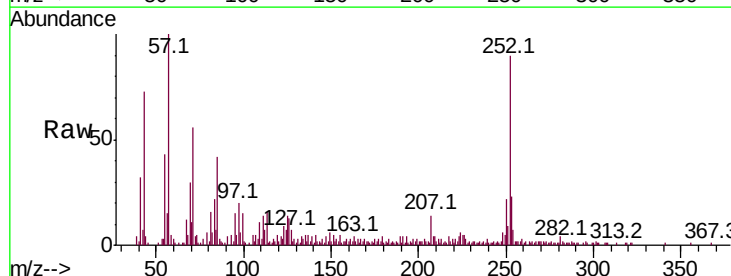
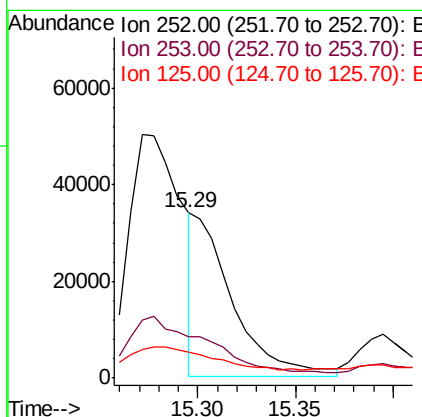
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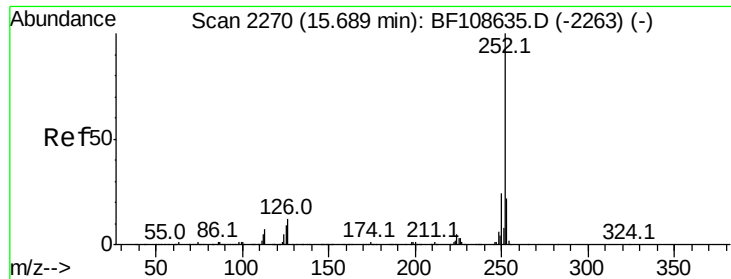
Sohil  
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#88  
Benzo(k)fluoranthene  
Concen: 4.073 ng m  
RT: 15.29 min Scan# 2203  
Delta R.T. -0.02 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 17.9  | 26.9  |
| 125     | 15.4  | 10.2  | 15.2# |





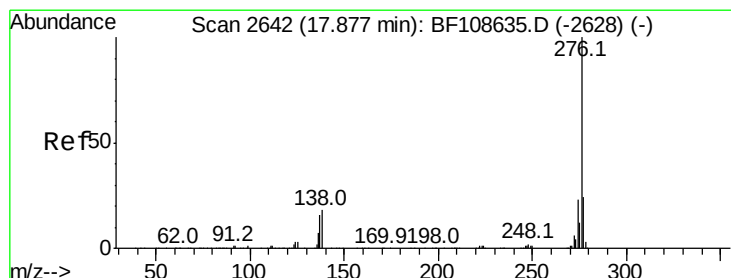
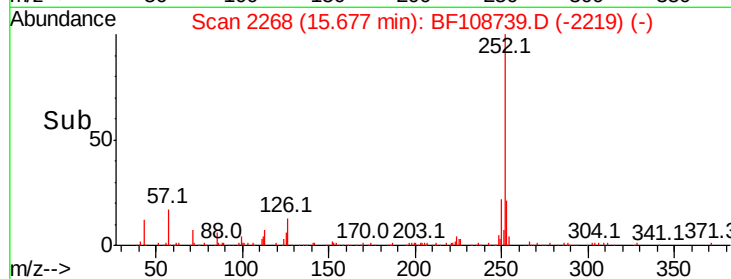
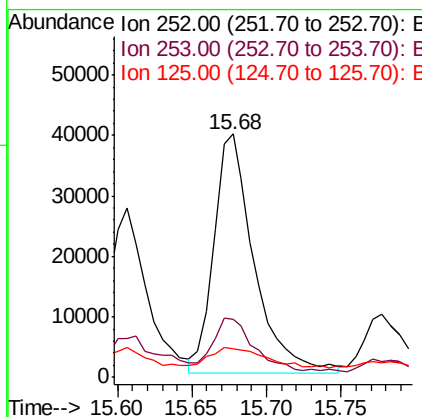
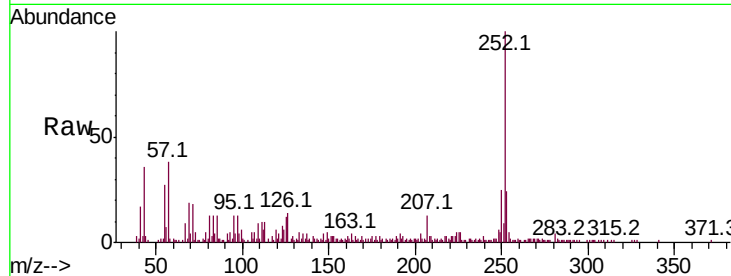
#89  
Benzo(a)pyrene  
Concen: 7.340 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. -0.01 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

Instrument :  
BNA\_F  
ClientSampled :  
WE-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 17.1  | 25.7  |
| 125     | 11.9  | 9.8   | 14.6  |

Manual Integrations  
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#91  
Benzo(g,h,i)perylene  
Concen: 4.943 ng  
RT: 17.85 min Scan# 2638  
Delta R.T. -0.02 min  
Lab File: BF108739.D  
Acq: 4 Sep 2018 14:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.6  | 17.9  | 26.9# |
| 138     | 17.7  | 21.8  | 32.8# |

