

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
 Data File : BF100983.D  
 Acq On : 29 Nov 2017 17:38  
 Operator : SJ/JU  
 Sample : I6304-24 10X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-112817-B

Manual Integrations  
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Sohil  
 11/30/2017 4:29:53 PM

Quant Time: Nov 30 06:37:08 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 28 15:21:02 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 70359    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.13  | 136  | 276101   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.89  | 164  | 120049   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.38 | 188  | 189380   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.03 | 240  | 139168   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.50 | 264  | 112852   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 43749    | 9.97   | ng    | -0.01    |
| 7) Phenol-d6                | 6.47  | 99   | 54210    | 10.02  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 31217    | 7.48   | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 12047    | 9.85   | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 76853    | 9.75   | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.96 | 244  | 54898    | 9.06   | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.16  | 128  | 273140   | 20.539 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.85  | 142  | 129012   | 14.612 | ng    | 99       |
| 45) 1,1'-Biphenyl           | 9.31  | 154  | 26928    | 2.593  | ng    | 94       |
| 48) Acenaphthylene          | 9.75  | 152  | 59125    | 4.736  | ng    | 97       |
| 51) Acenaphthene            | 9.92  | 154  | 89630    | 11.806 | ng    | 99       |
| 54) Dibenzofuran            | 10.09 | 168  | 144222   | 13.554 | ng    | # 97     |
| 57) Fluorene                | 10.44 | 166  | 196772   | 25.243 | ng    | 97       |
| 70) Phenanthrene            | 11.41 | 178  | 860186   | 86.268 | ng    | 99       |
| 71) Anthracene              | 11.46 | 178  | 297045   | 29.363 | ng    | 99       |
| 72) Carbazole               | 11.61 | 167  | 58640    | 6.282  | ng    | 98       |
| 74) Fluoranthene            | 12.60 | 202  | 889431   | 84.167 | ng    | 96       |
| 77) Pyrene                  | 12.83 | 202  | 814852   | 82.139 | ng    | 99       |
| 80) Benzo(a)anthracene      | 14.02 | 228  | 460256   | 54.919 | ng    | 98       |
| 82) Chrysene                | 14.05 | 228  | 347383   | 42.805 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.98 | 276  | 136526   | 20.798 | ng    | # 89     |
| 87) Benzo(b)fluoranthene    | 15.07 | 252  | 362602m  | 54.234 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.09 | 252  | 130103m  | 20.595 | ng    |          |
| 89) Benzo(a)pyrene          | 15.44 | 252  | 274350   | 46.286 | ng    | 96       |
| 90) Dibenzo(a,h)anthracene  | 16.99 | 278  | 35234    | 7.269  | ng    | # 90     |
| 91) Benzo(a,h,i)perylene    | 17.43 | 276  | 125352   | 26.417 | ng    | # 91     |

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

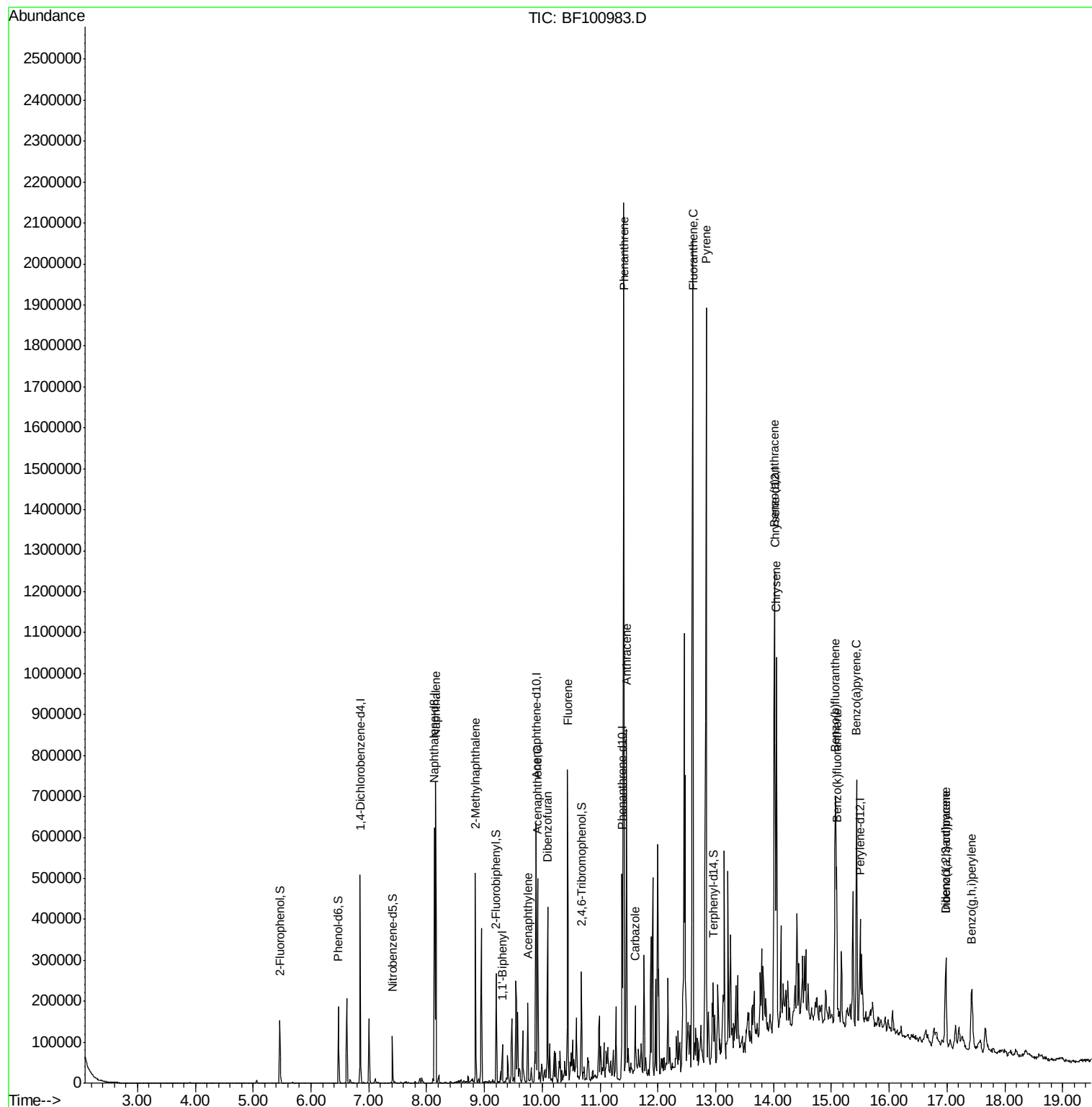
Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
Data File : BF100983.D  
Acq On : 29 Nov 2017 17:38  
Operator : SJ/JU  
Sample : I6304-24 10X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

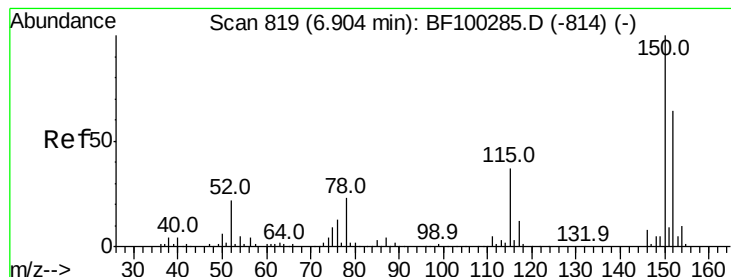
Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

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Quant Time: Nov 30 06:37:08 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 28 15:21:02 2017  
Response via : Initial Calibration





#1

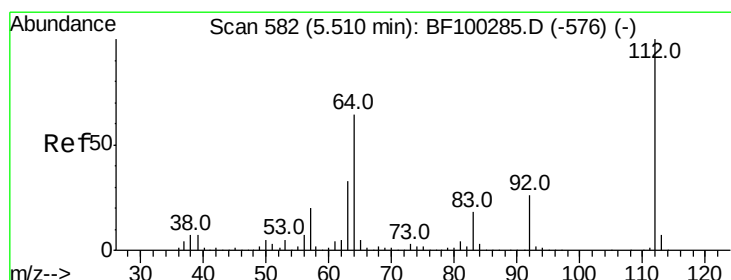
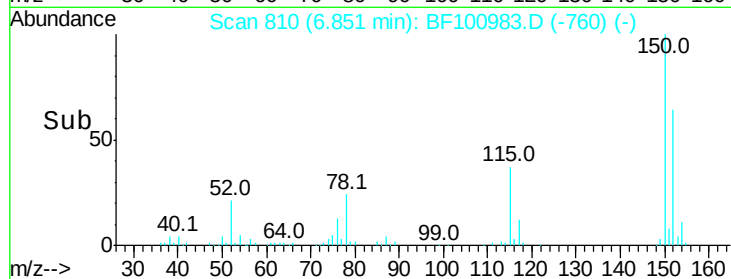
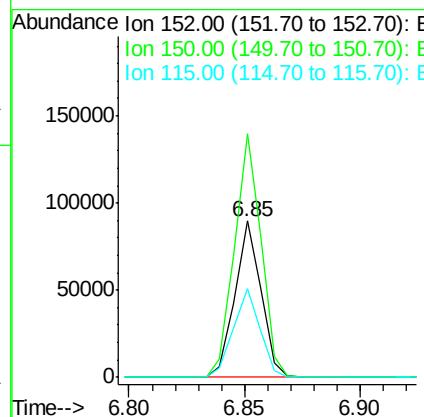
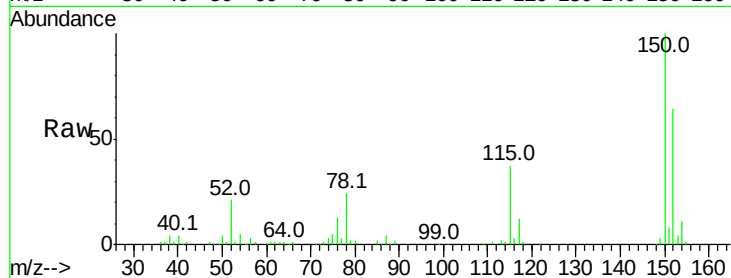
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.0 | 124.6 | 186.8 |
| 115     | 57.3  | 50.1  | 75.1  |

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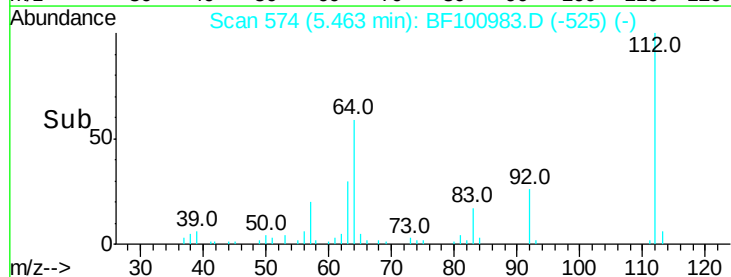
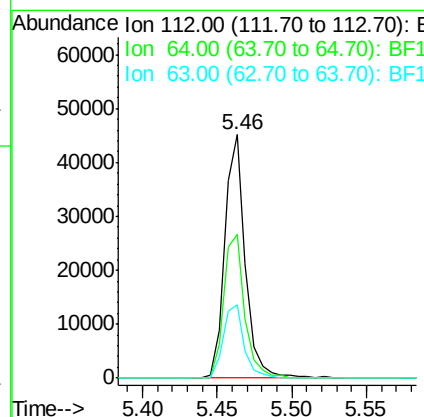
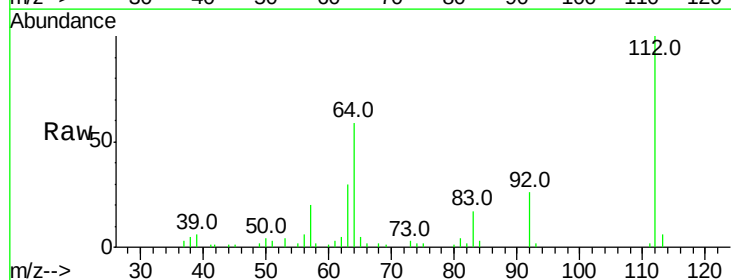
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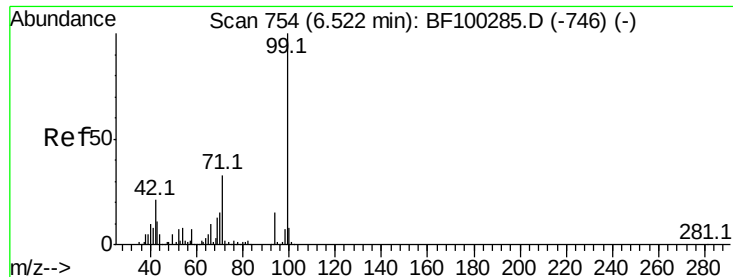


#5

2-Fluorophenol  
Concen: 9.967 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.3  | 47.9  | 71.9  |
| 63      | 30.1  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 10.016 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

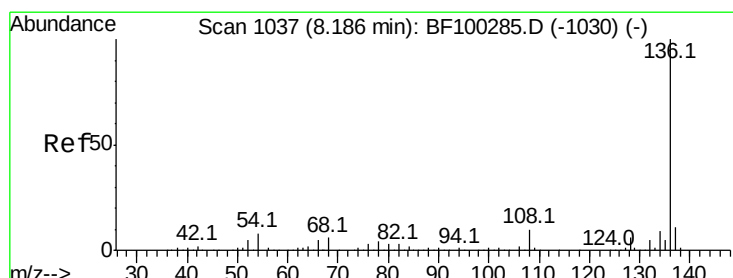
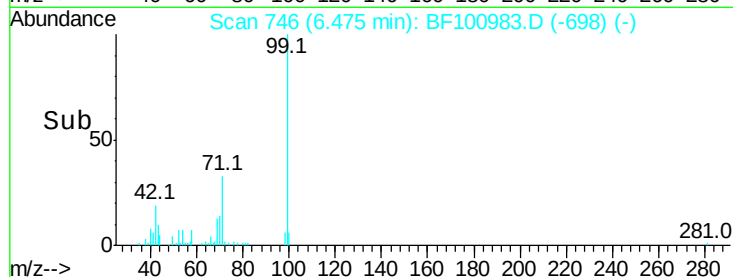
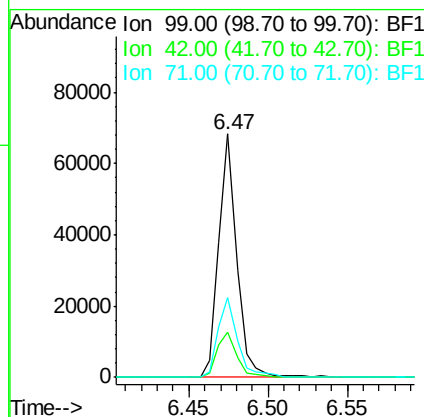
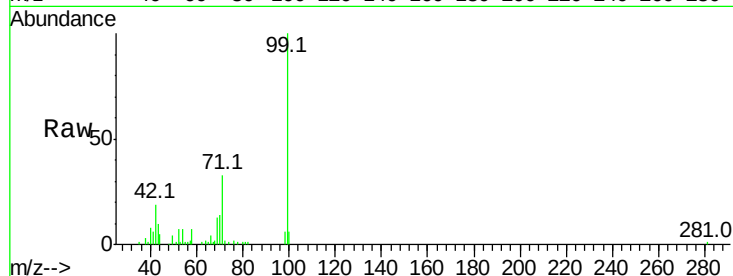
ClientSampleId :

CL-02-112817-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 54210 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 18.6  | 14.5  | 21.7  |
| 71        | 32.6  | 25.4  | 38.0  |

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#21

Naphthalene-d8

Concen: 20.000 ng

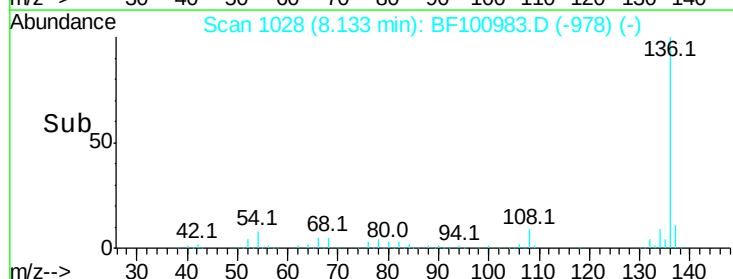
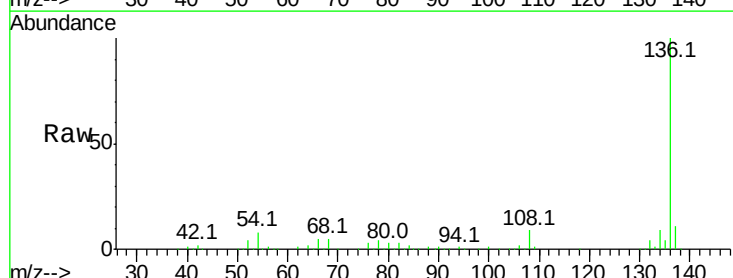
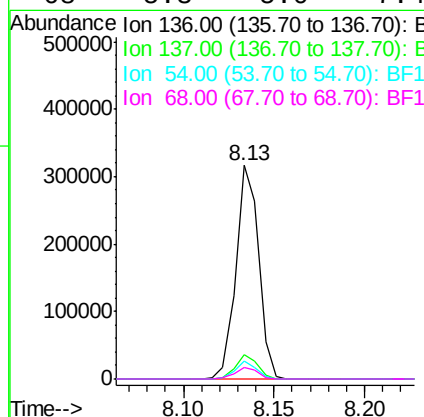
RT: 8.13 min Scan# 1028

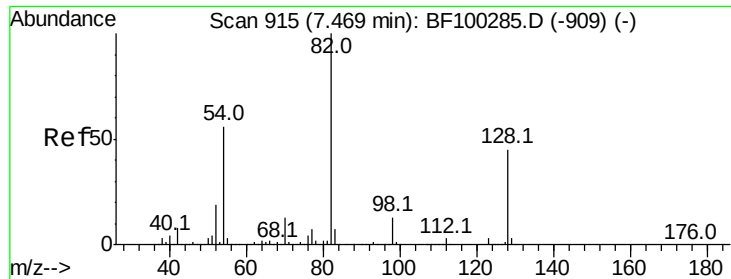
Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 276101 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.4  | 8.9   | 13.3   |
| 54        | 8.2   | 6.6   | 9.8    |
| 68        | 5.3   | 5.0   | 7.4    |





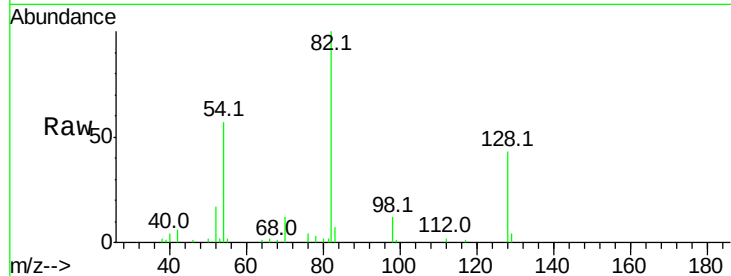
#23  
Nitrobenzene-d5  
Concen: 7.475 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.02 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

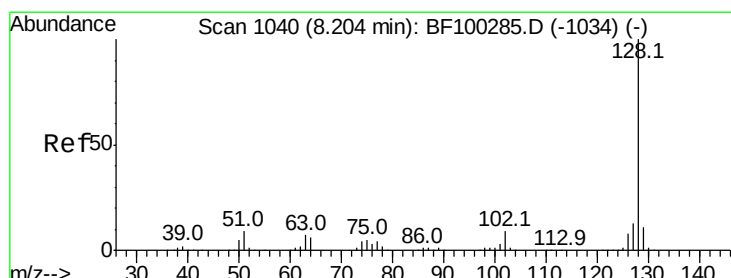
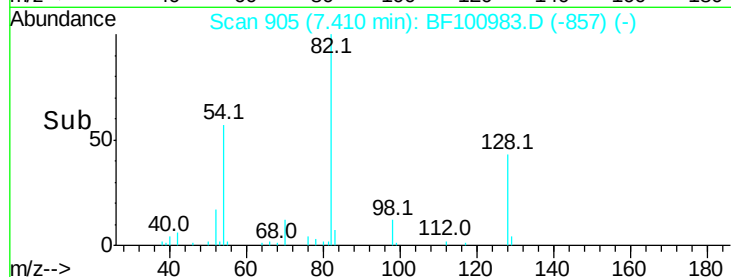
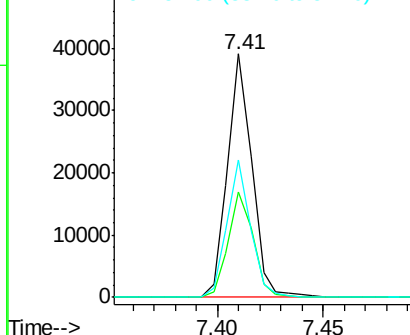
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.4  | 36.1  | 54.1  |
| 54      | 56.6  | 41.4  | 62.2  |

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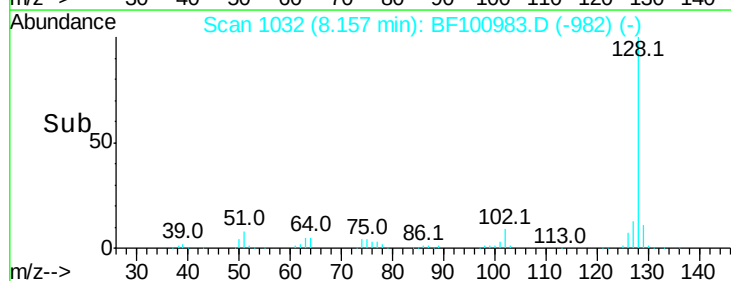
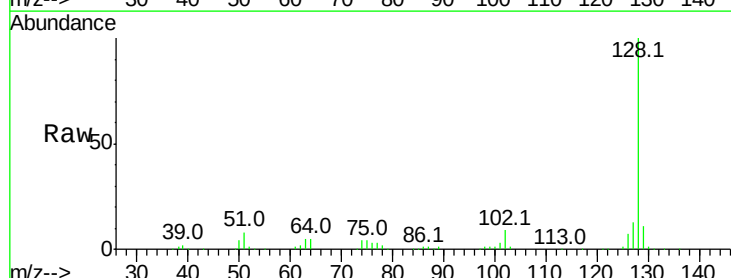
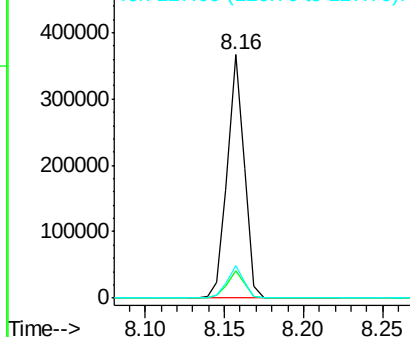
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

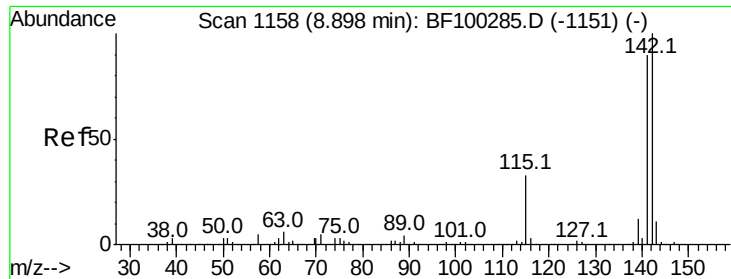


#31  
Naphthalene  
Concen: 20.539 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.2  | 8.8   | 13.2  |
| 127     | 13.3  | 10.9  | 16.3  |

Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E





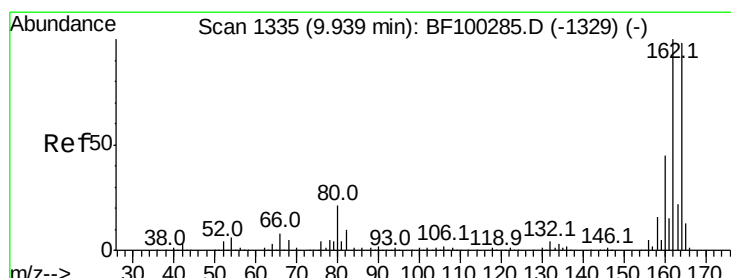
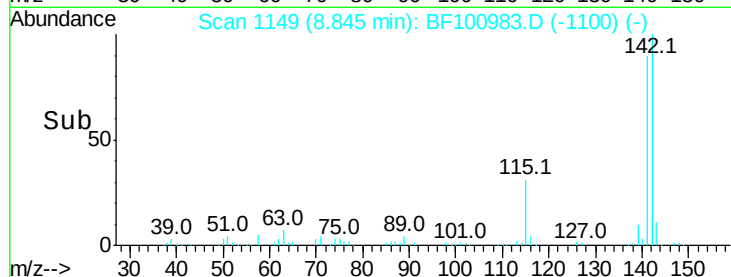
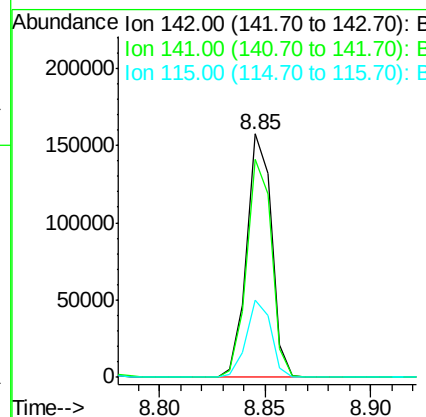
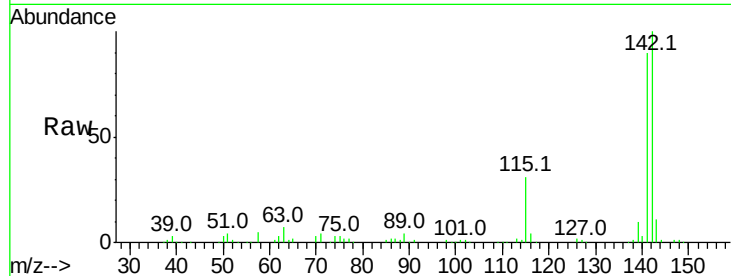
#37  
2-Methylnaphthalene  
Concen: 14.612 ng  
RT: 8.85 min Scan# 1149  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.6  | 70.8  | 106.2 |
| 115     | 31.5  | 26.1  | 39.1  |

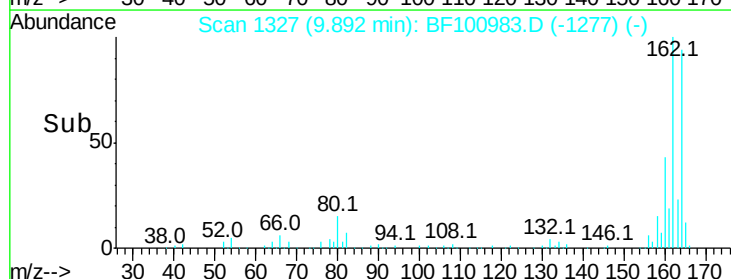
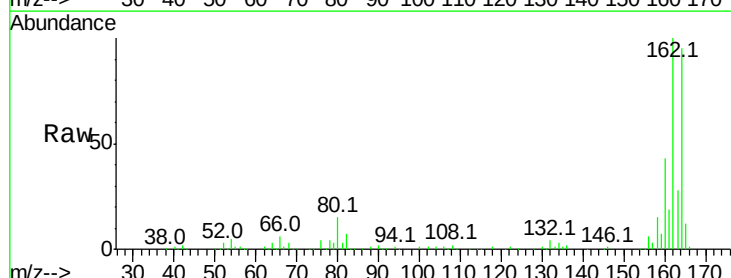
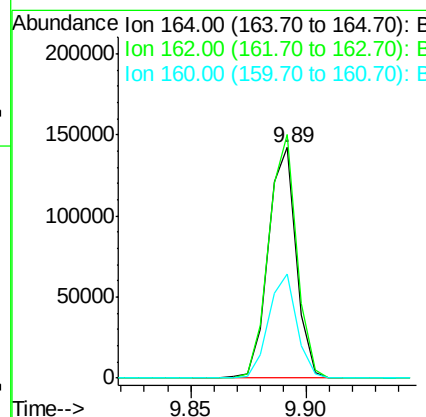
Manual Integrations  
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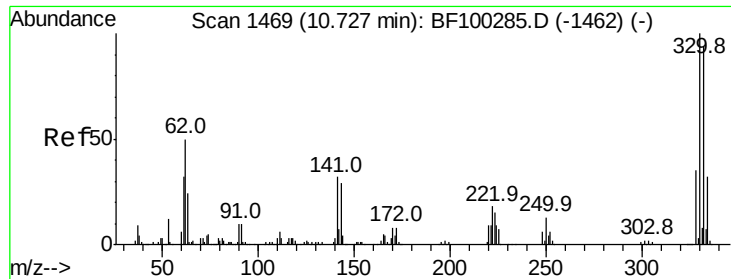
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.89 min Scan# 1327  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.6 | 86.1  | 129.1 |
| 160     | 45.3  | 38.3  | 57.5  |





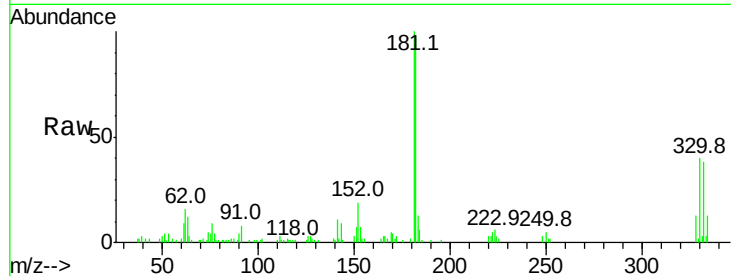
#41  
 2,4,6-Tribromophenol  
 Concen: 9.848 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. -0.01 min  
 Lab File: BF100983.D  
 Acq: 29 Nov 2017 17:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-112817-B

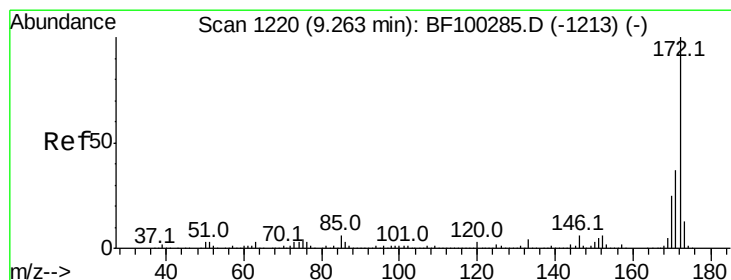
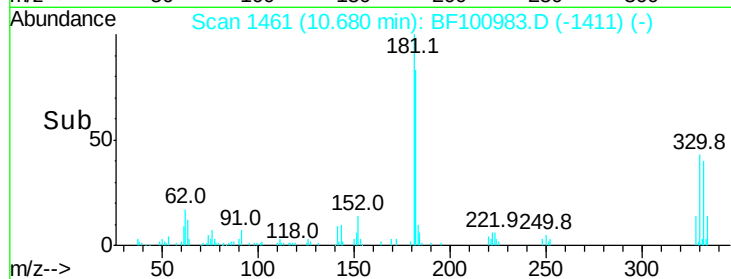
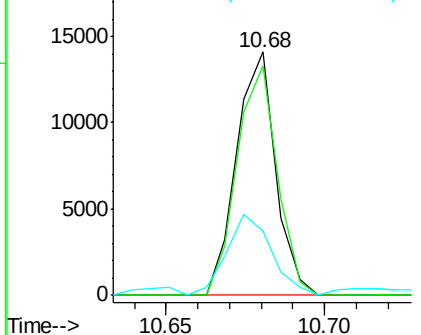
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.1  | 77.0 | 115.6 |       |
| 141     | 37.8  | 29.9 | 44.9  |       |

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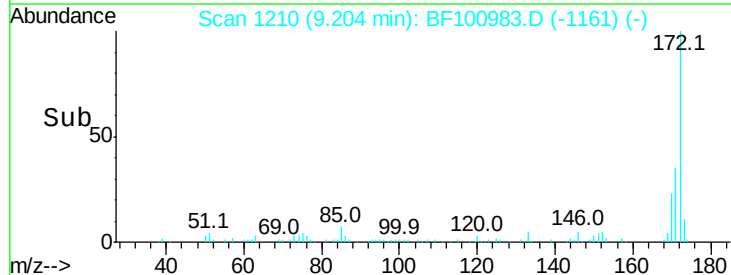
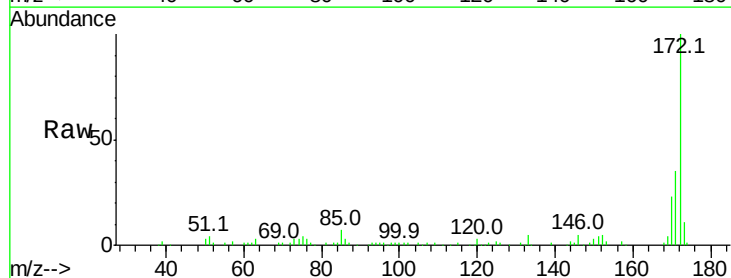
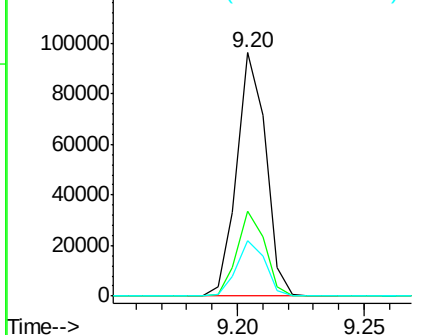
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

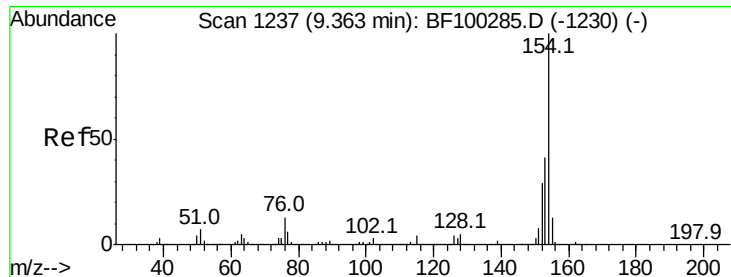


#44  
 2-Fluorobiphenyl  
 Concen: 9.748 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF100983.D  
 Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 34.9  | 29.7 | 44.5  |       |
| 170     | 22.7  | 19.6 | 29.4  |       |

Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 2.593 ng

RT: 9.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

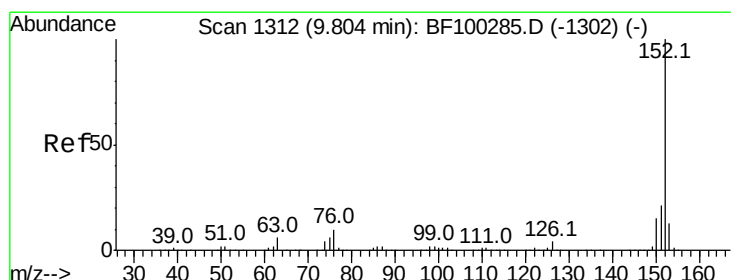
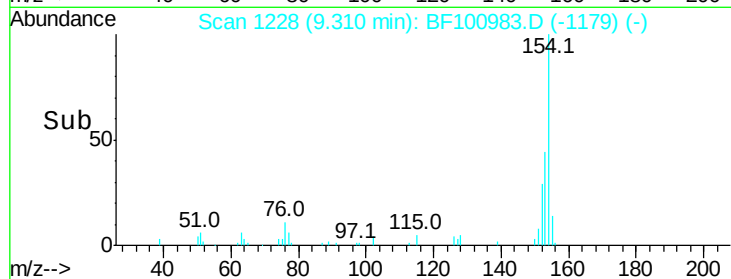
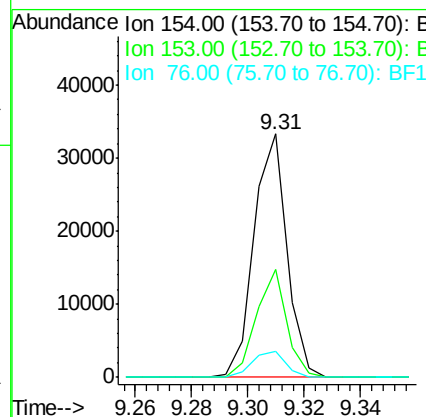
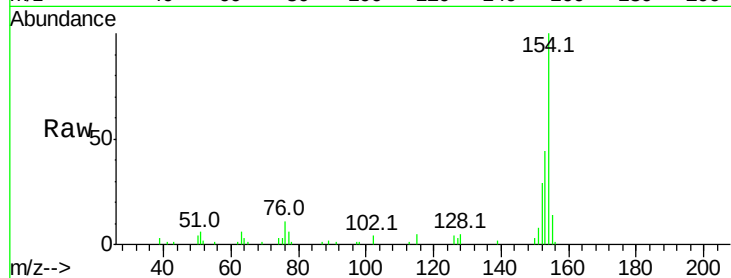
ClientSampleId :

CL-02-112817-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 26928 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 44.4  | 21.3  | 61.3  |
| 76        | 10.6  | 0.0   | 34.0  |

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#48

Acenaphthylene

Concen: 4.736 ng

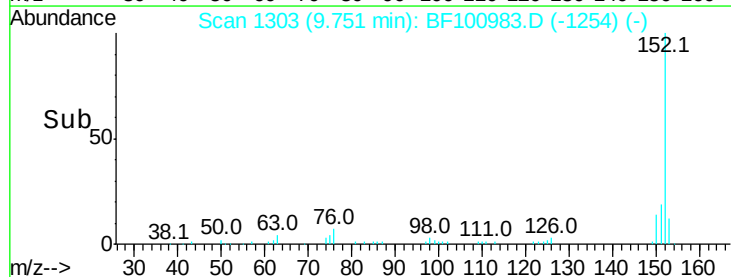
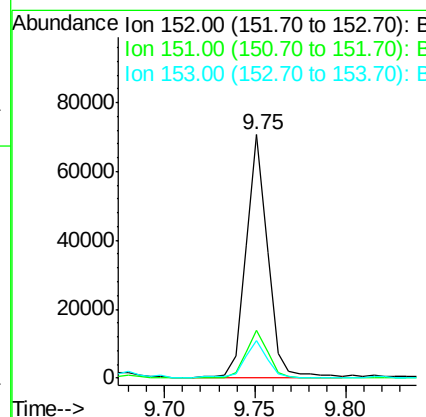
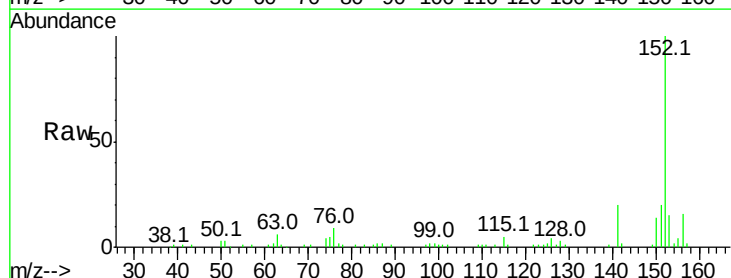
RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

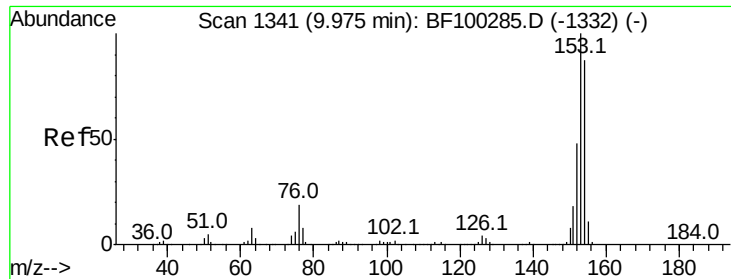
Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 59125 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 16.3  | 24.5  |
| 153       | 15.4  | 10.7  | 16.1  |







#51

Acenaphthene

Concen: 11.806 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

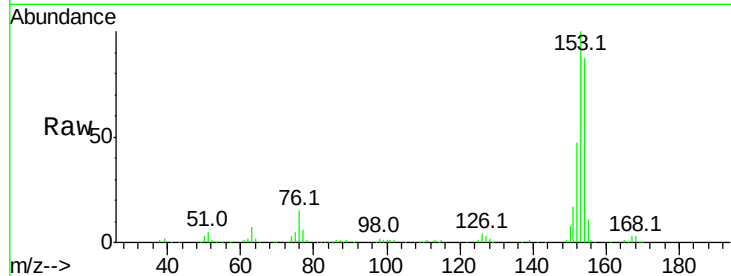
ClientSampleId :

CL-02-112817-B

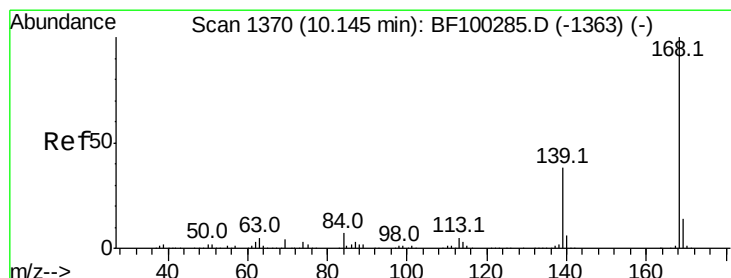
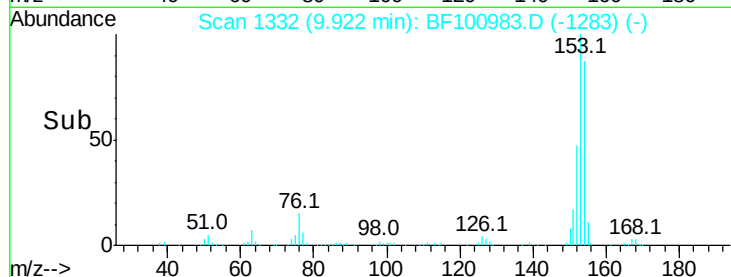
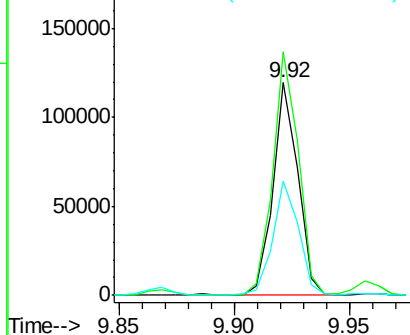
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 154   | Resp: | 89630 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 114.5 | 91.2  | 136.8 |
| 152       | 54.0  | 43.8  | 65.8  |

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Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 13.554 ng

RT: 10.09 min Scan# 1361

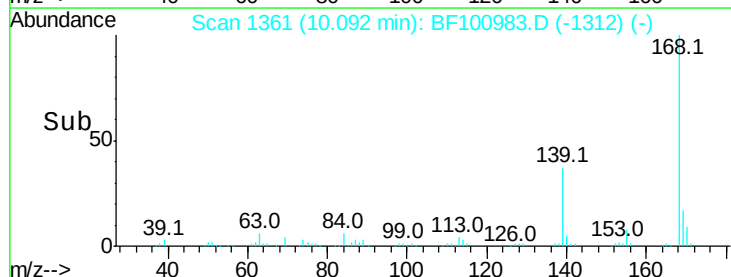
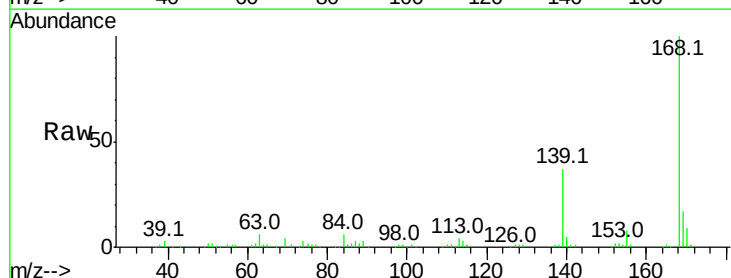
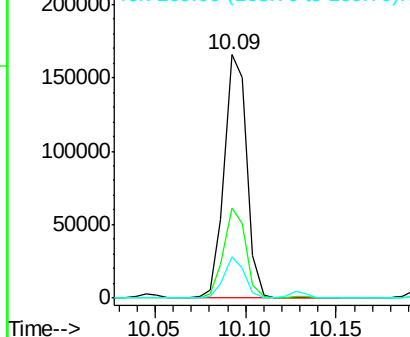
Delta R.T. -0.01 min

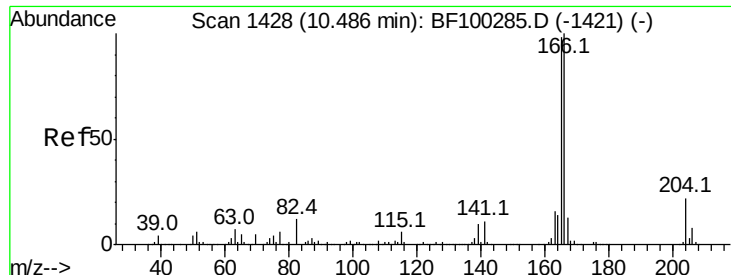
Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 144222 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 37.0  | 30.1  | 45.1   |
| 169       | 16.9  | 10.9  | 16.3#  |

Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 25.243 ng

RT: 10.44 min Scan# 1420

Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

ClientSampleId :

CL-02-112817-B

Tot Ion:166 Resp: 196772

Ion Ratio Lower Upper

166 100

165 102.9 79.8 119.8

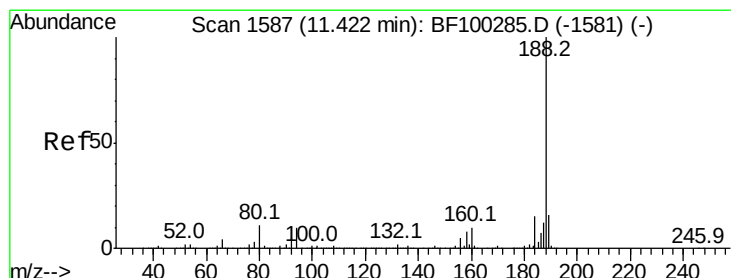
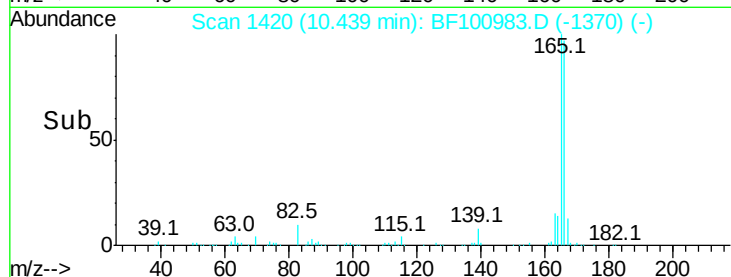
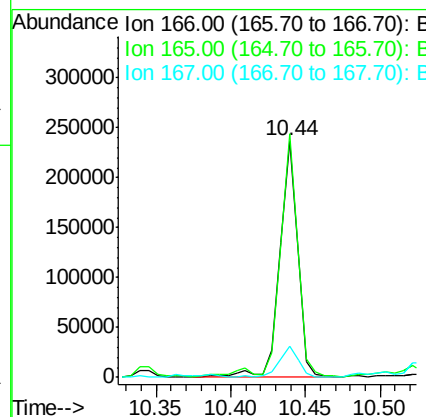
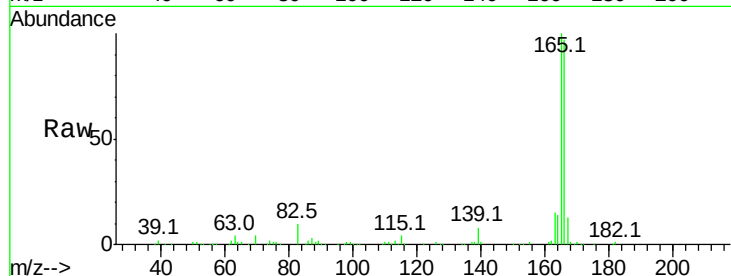
167 13.3 10.6 16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.00 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

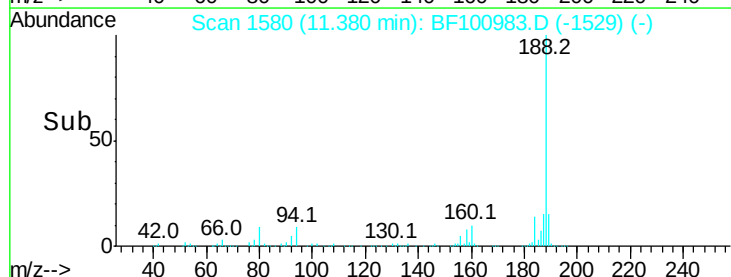
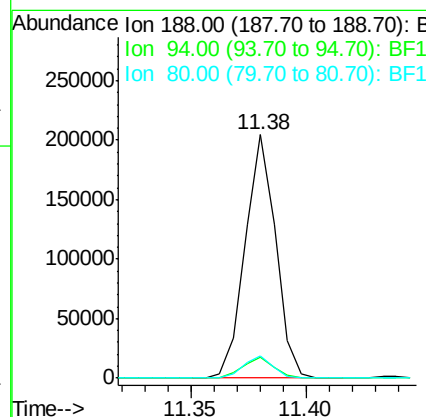
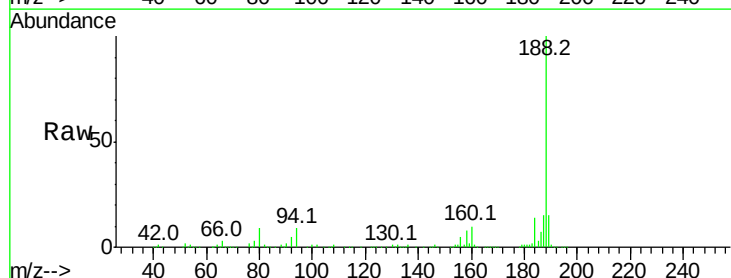
Tgt Ion:188 Resp: 189380

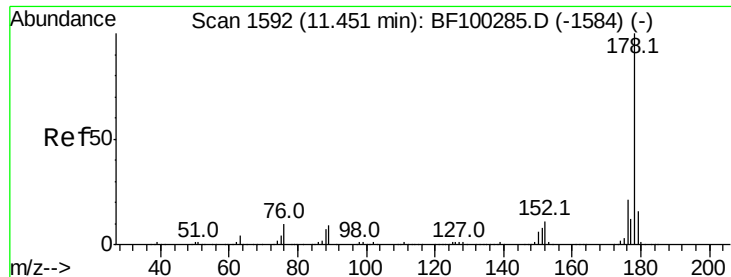
Ion Ratio Lower Upper

188 100

94 8.7 8.5 12.7

80 8.9 9.2 13.8#





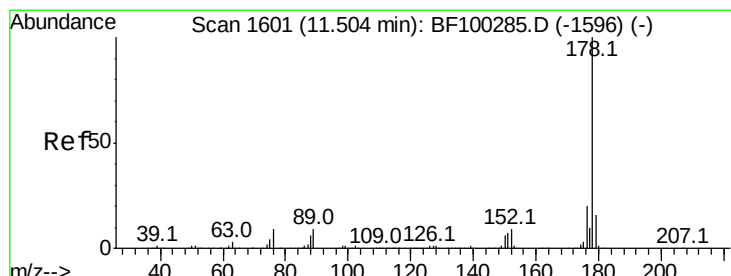
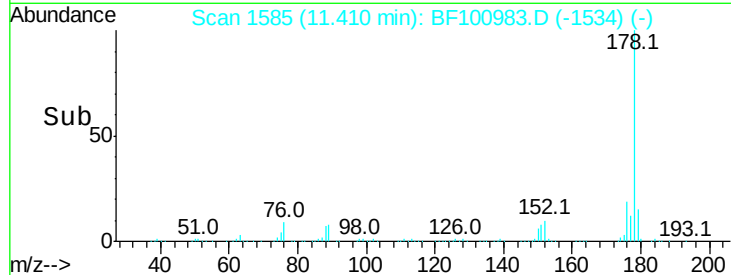
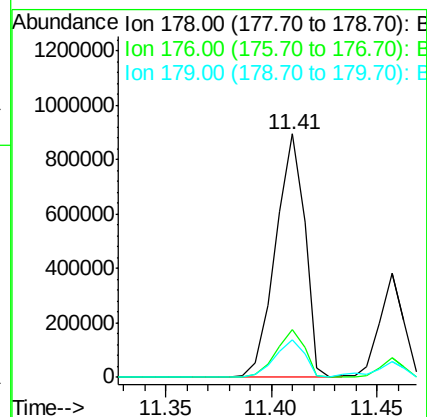
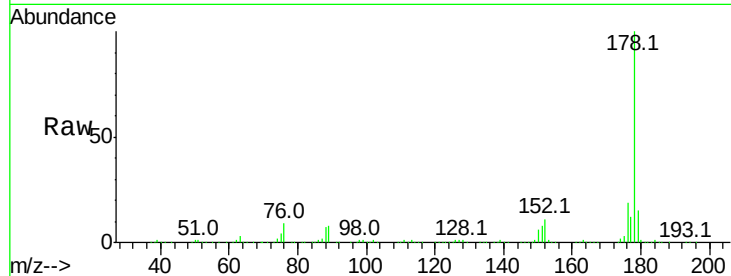
#70  
Phenanthrene  
Concen: 86.268 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.00 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 15.8  | 23.8  |
| 179     | 15.5  | 13.0  | 19.6  |

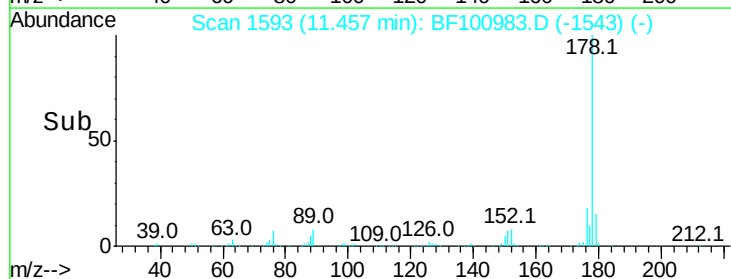
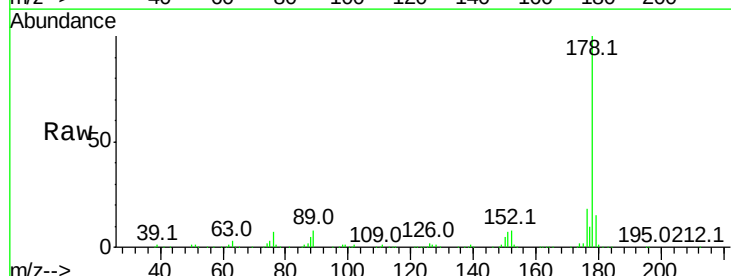
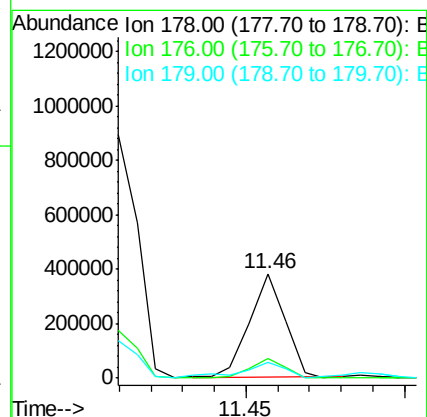
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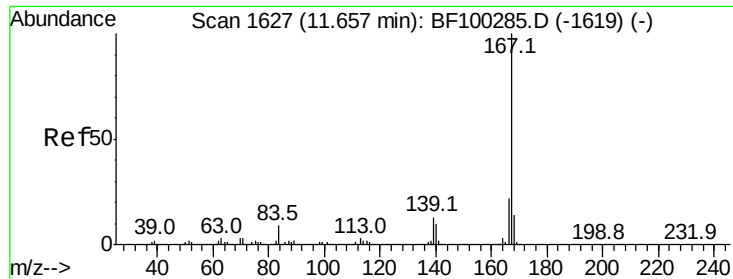
Sohil  
11/30/2017 4:29:53 PM



#71  
Anthracene  
Concen: 29.363 ng  
RT: 11.46 min Scan# 1593  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.4  | 23.2  |
| 179     | 15.5  | 12.6  | 19.0  |





#72

Carbazole

Concen: 6.282 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

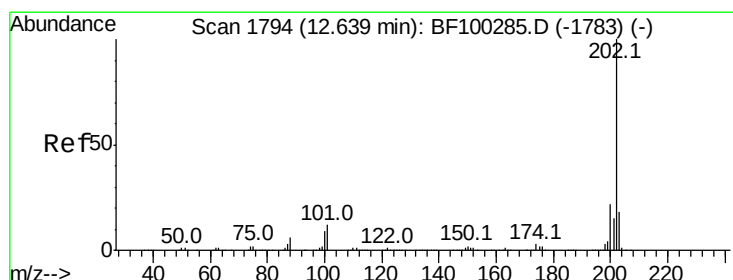
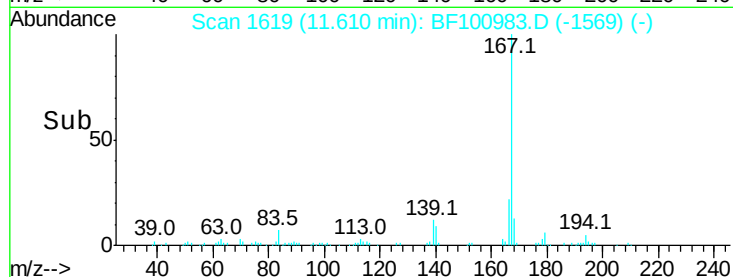
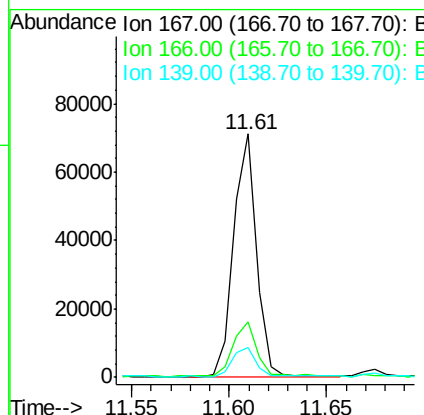
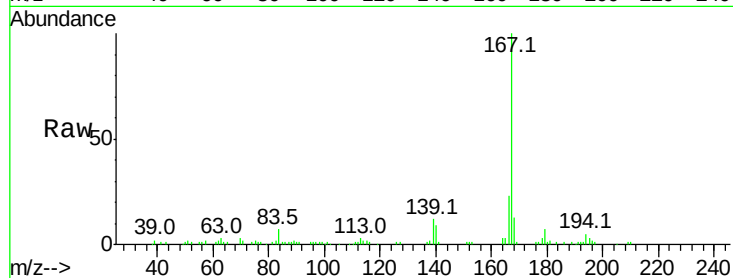
ClientSampleId :

CL-02-112817-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 58640 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 22.8  | 17.6  | 26.4  |
| 139       | 12.3  | 10.9  | 16.3  |

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#74

Fluoranthene

Concen: 84.167 ng

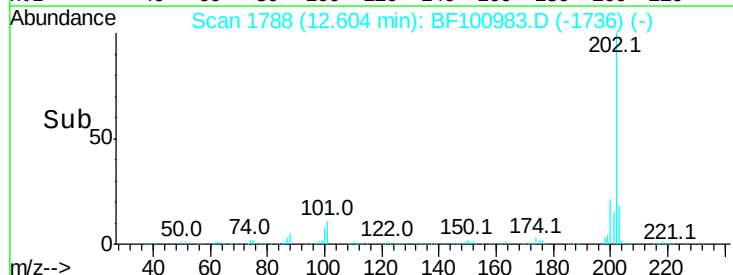
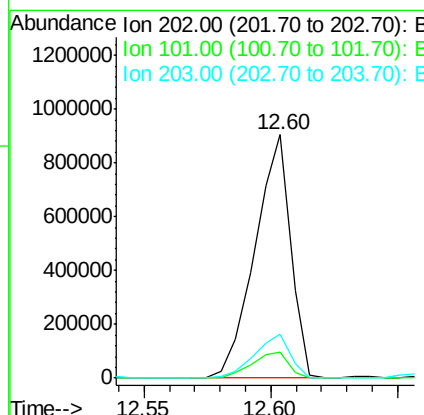
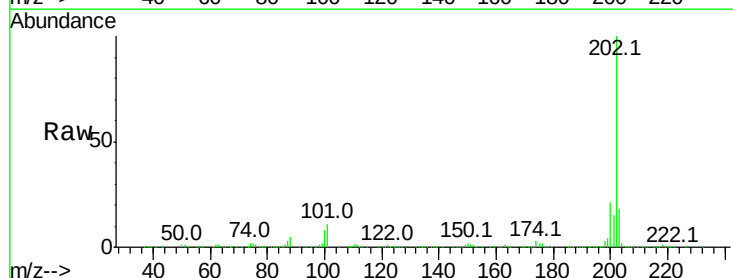
RT: 12.60 min Scan# 1788

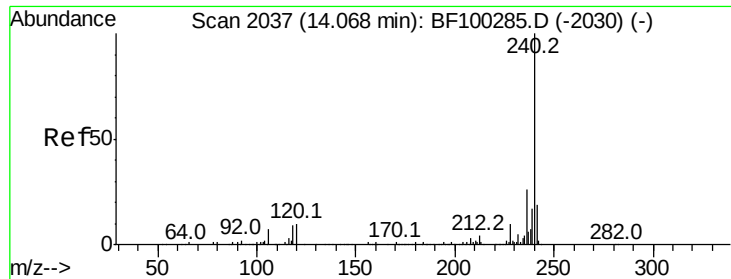
Delta R.T. 0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 889431 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.5  | 0.0   | 34.1   |
| 203       | 17.8  | 0.0   | 38.1   |





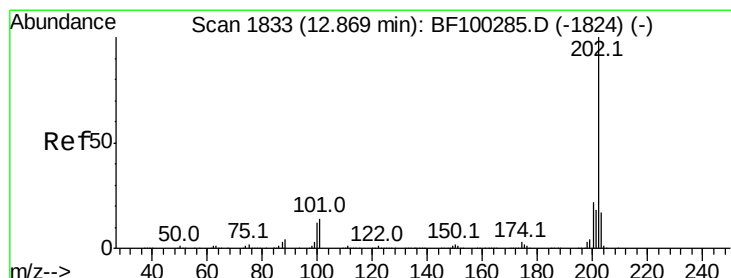
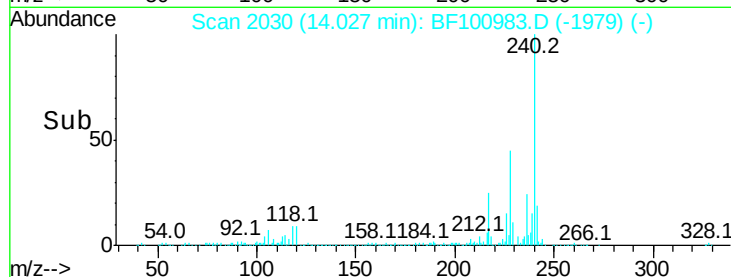
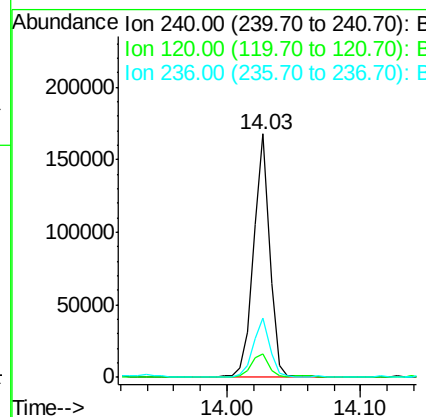
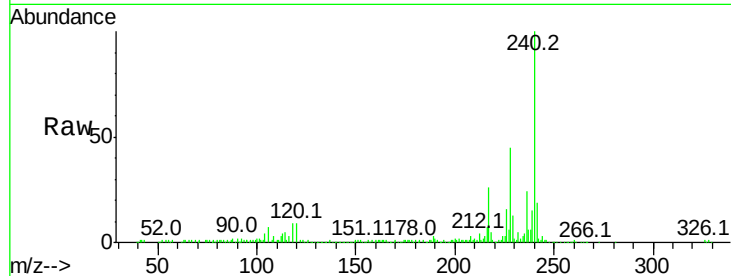
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2030  
Delta R.T. -0.00 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.4   | 9.5   | 14.3# |
| 236     | 24.5  | 20.7  | 31.1  |

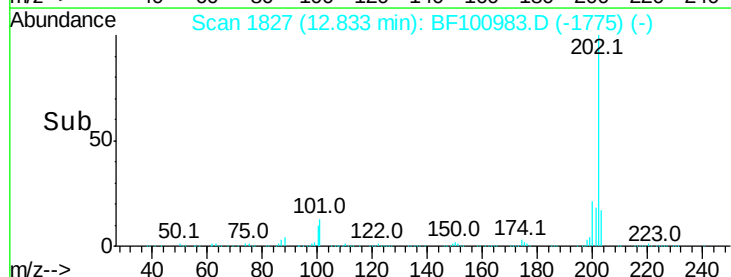
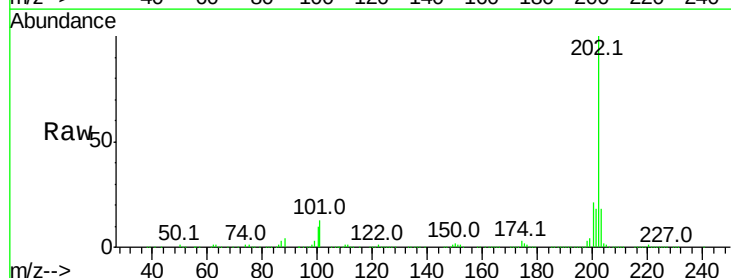
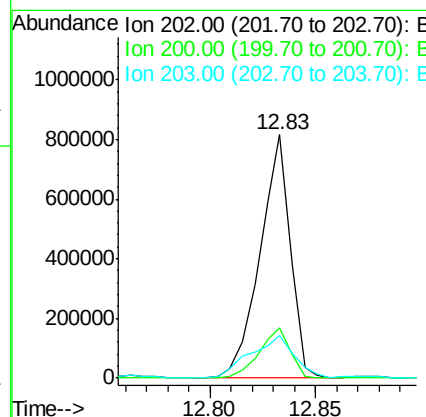
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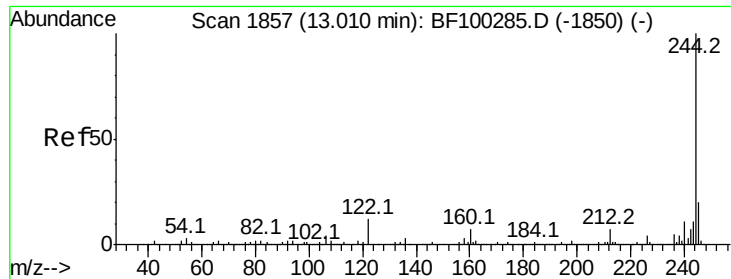
Sohil  
11/30/2017 4:29:53 PM



#77  
Pyrene  
Concen: 82.139 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.4  | 26.2  |
| 203     | 17.7  | 14.3  | 21.5  |





#78

Terphenyl-d14

Concen: 9.064 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

Instrument :

BNA\_F

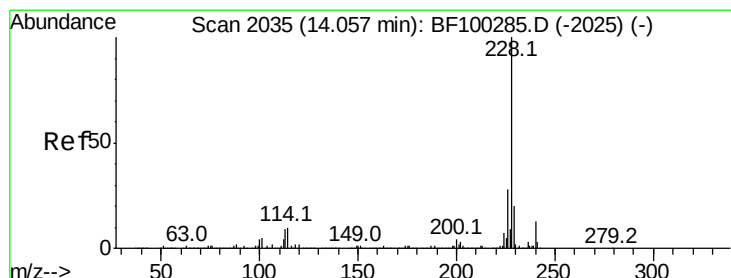
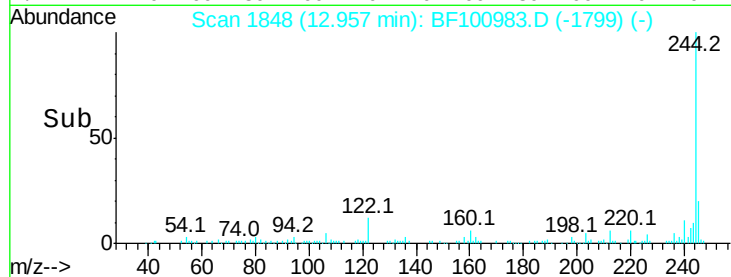
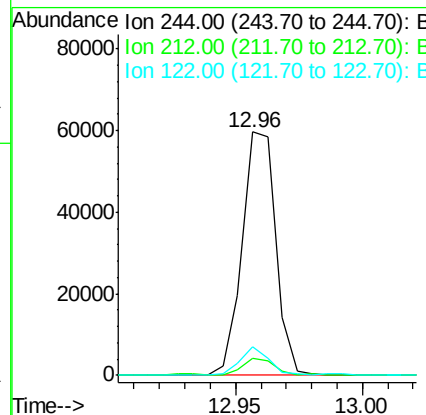
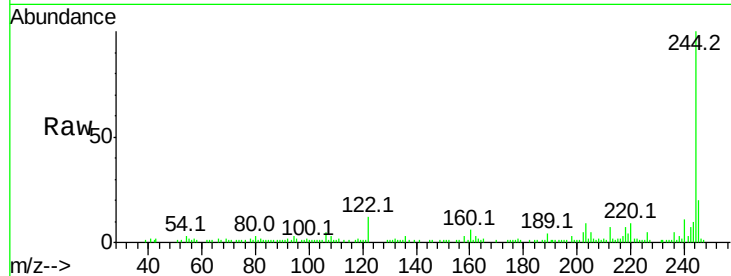
ClientSampleId :

CL-02-112817-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 244   | Resp: | 54898 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 7.1   | 5.4   | 8.0   |
| 122       | 11.6  | 11.0  | 16.4  |

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#80

Benzo(a)anthracene

Concen: 54.919 ng

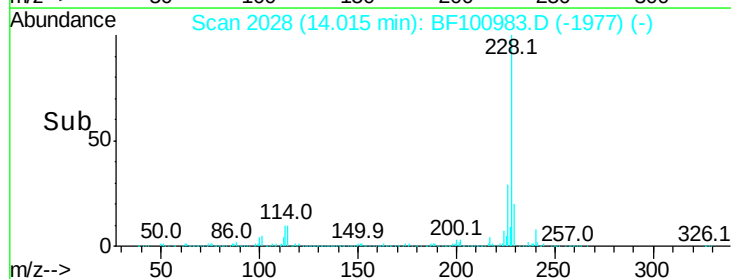
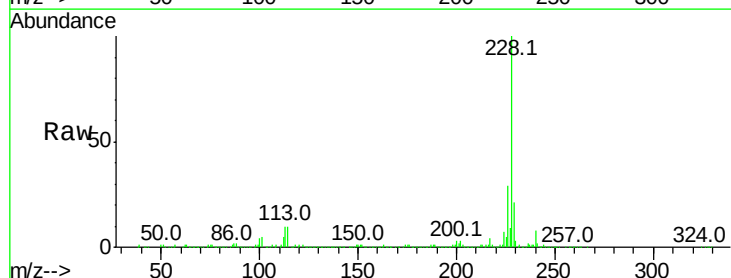
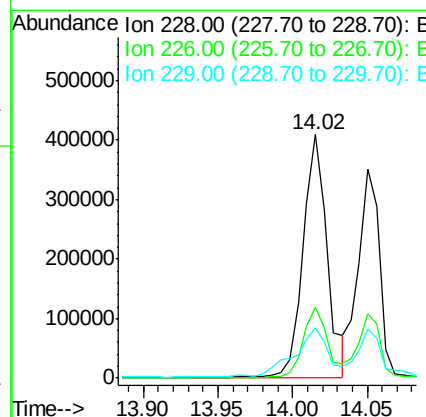
RT: 14.02 min Scan# 2028

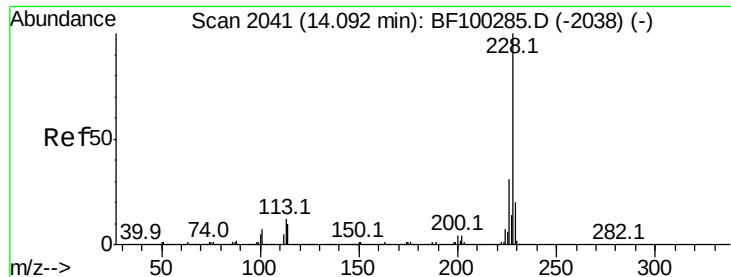
Delta R.T. -0.00 min

Lab File: BF100983.D

Acq: 29 Nov 2017 17:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 460256 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.2  | 22.6  | 33.8   |
| 229       | 20.6  | 15.8  | 23.6   |





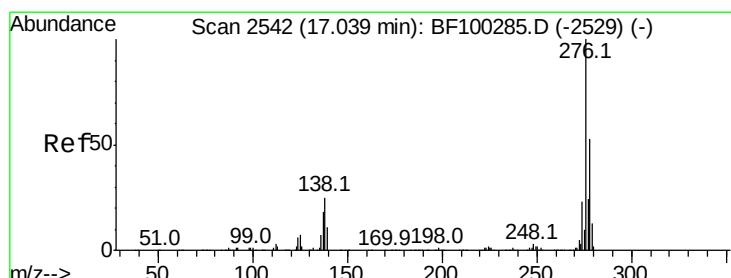
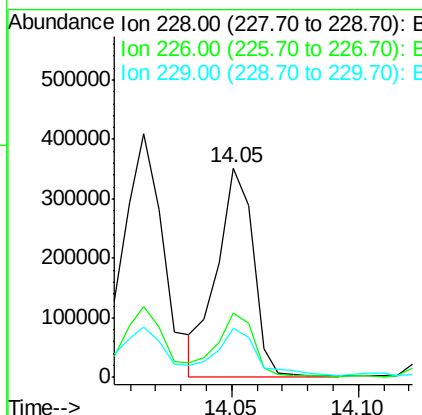
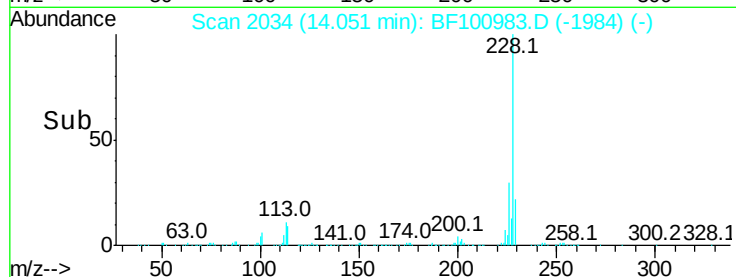
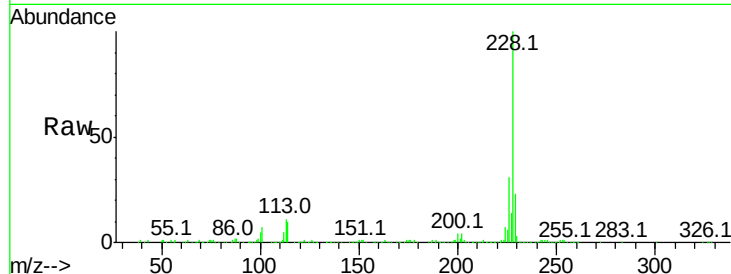
#82  
Chrysene  
Concen: 42.805 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 25.0  | 37.6  |
| 229     | 23.1  | 16.2  | 24.4  |

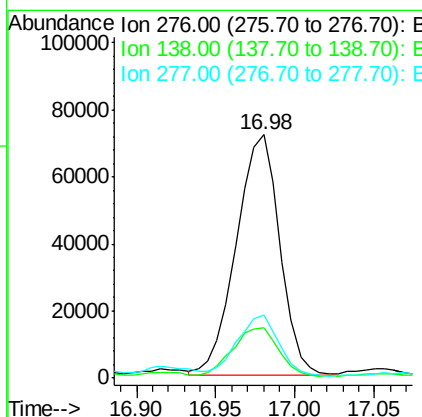
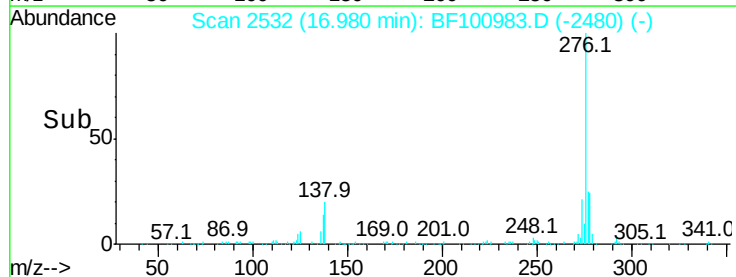
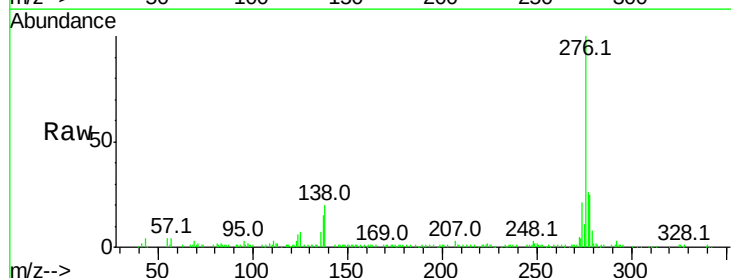
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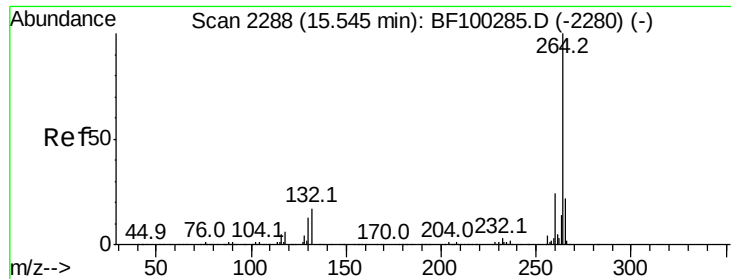
Sohil  
11/30/2017 4:29:53 PM



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 20.798 ng  
RT: 16.98 min Scan# 2532  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.1  | 25.0  | 37.6# |
| 277     | 24.4  | 20.1  | 30.1  |





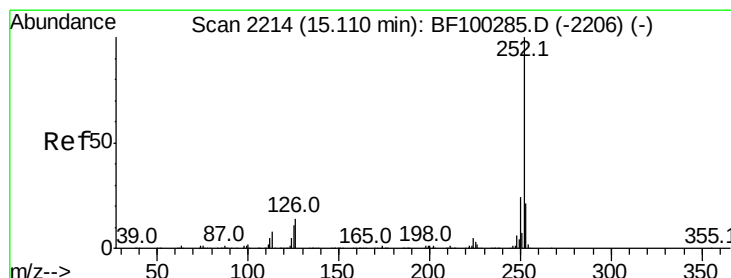
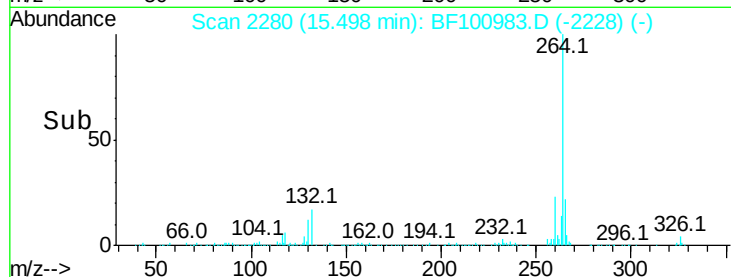
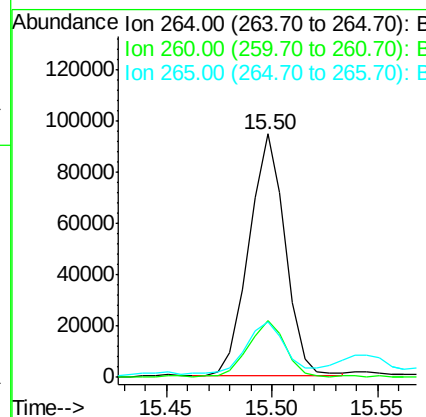
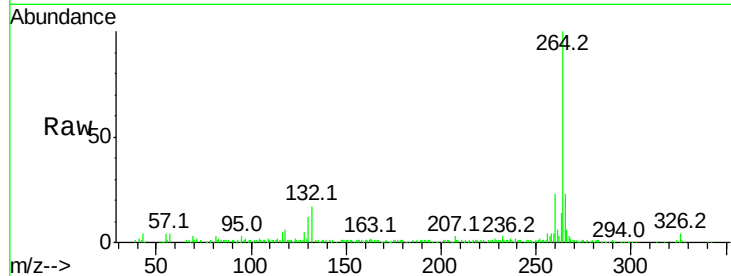
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 264     | 100   |      |       |       |
| 260     | 23.2  | 19.2 | 28.8  |       |
| 265     | 22.8  | 17.5 | 26.3  |       |

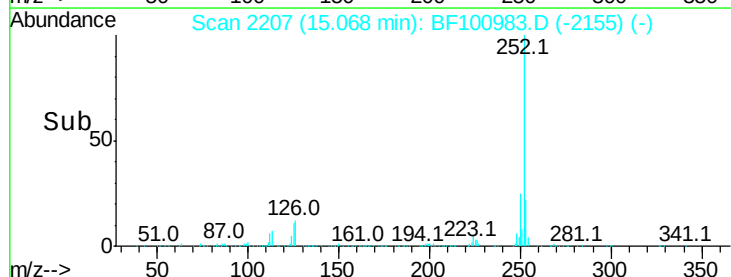
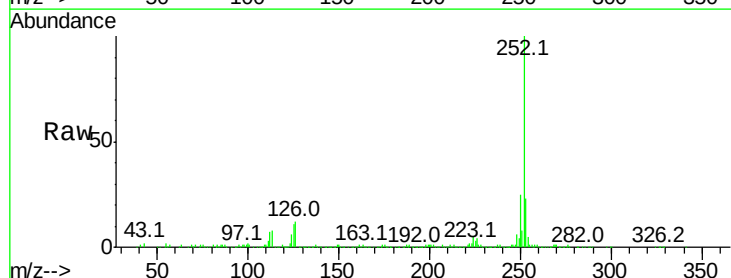
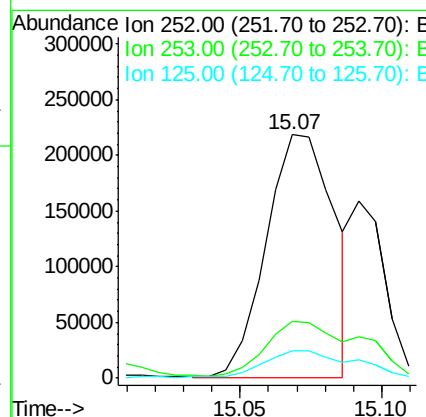
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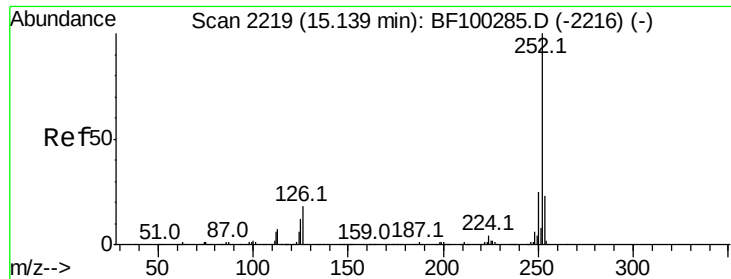


#87  
Benzo(b)fluoranthene  
Concen: 54.234 ng m  
RT: 15.07 min Scan# 2207  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 253     | 23.1  | 17.0 | 25.6  |       |
| 125     | 11.4  | 9.0  | 13.6  |       |







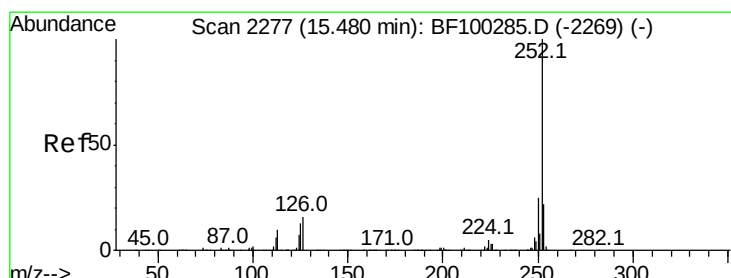
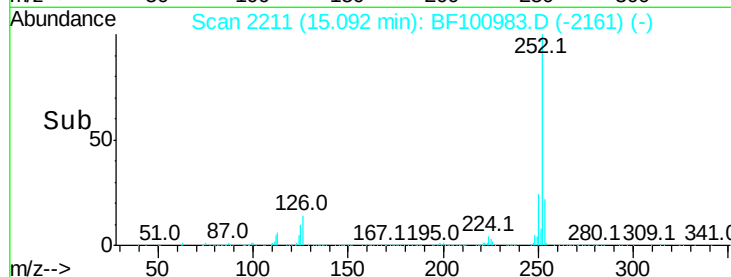
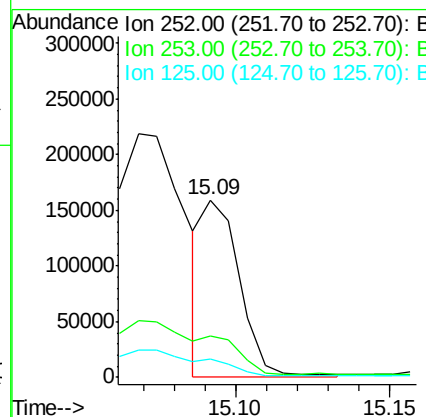
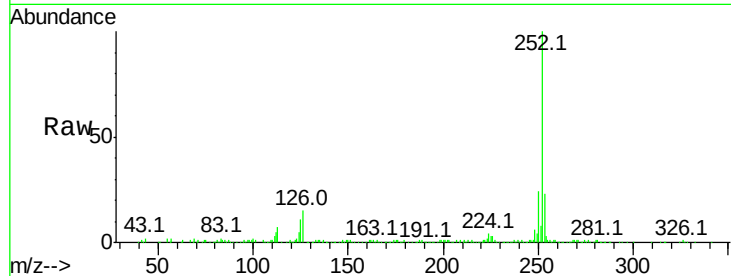
#88  
Benzo(k)fluoranthene  
Concen: 20.595 ng/mL  
RT: 15.09 min Scan# 2211  
Delta R.T. -0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 130103 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.9  | 26.9   |
| 125       | 10.6  | 10.2  | 15.2   |

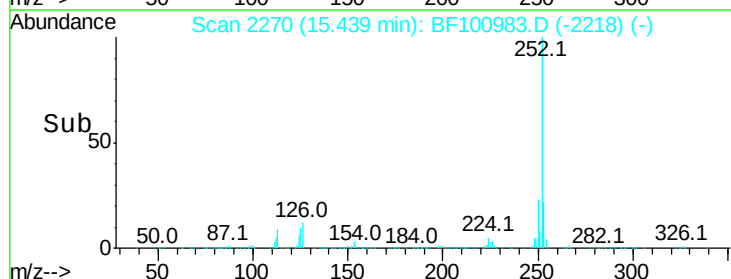
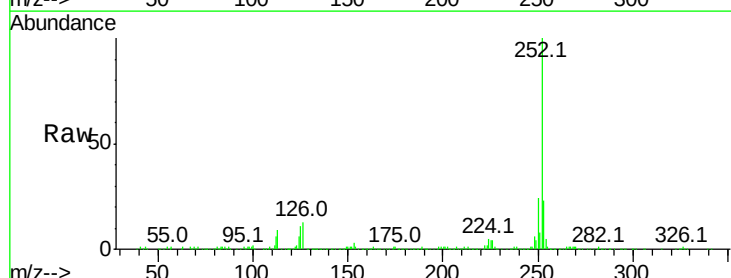
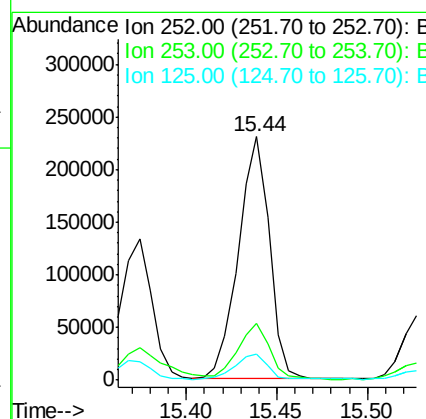
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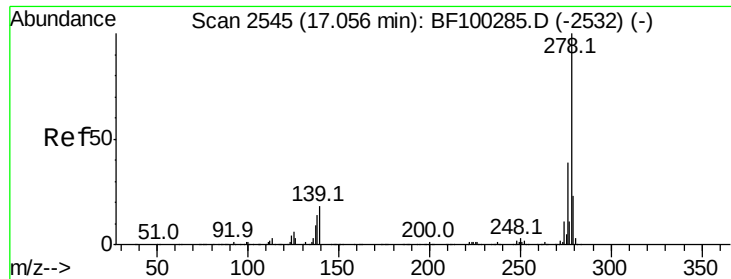
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#89  
Benzo(a)pyrene  
Concen: 46.286 ng/mL  
RT: 15.44 min Scan# 2270  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 274350 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.1  | 25.7   |
| 125       | 10.6  | 9.8   | 14.6   |





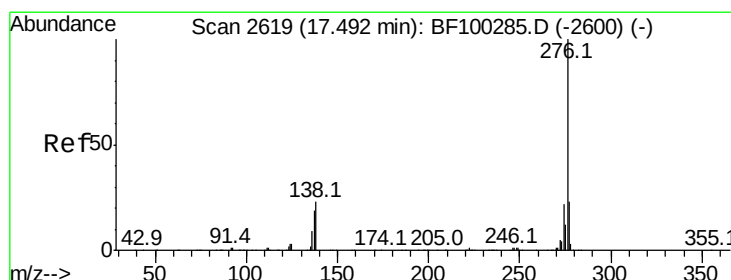
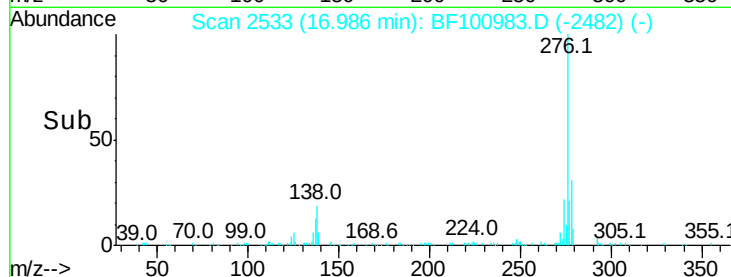
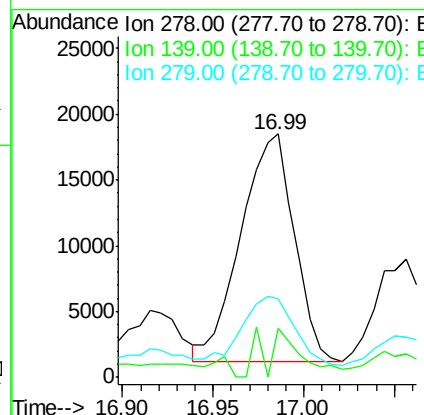
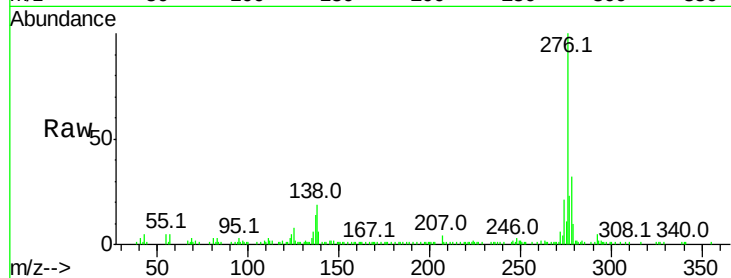
#90  
Dibenzo(a,h)anthracene  
Concen: 7.269 ng  
RT: 16.99 min Scan# 2533  
Delta R.T. -0.00 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-112817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.3  | 15.9  | 23.9  |
| 279     | 32.0  | 19.0  | 28.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 26.417 ng  
RT: 17.43 min Scan# 2608  
Delta R.T. 0.01 min  
Lab File: BF100983.D  
Acq: 29 Nov 2017 17:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.3  | 17.9  | 26.9  |
| 138     | 21.5  | 21.8  | 32.8  |

