

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090817\  
 Data File : BF098360.D  
 Acq On : 8 Sep 2017 19:43  
 Operator : SJ/JU  
 Sample : I5071-18  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G57A-1.5-3

Manual Integrations  
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 9/11/2017 4:47:43 PM

Quant Time: Sep 11 11:39:16 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 05 17:28:20 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.68  | 152  | 98103    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 7.96  | 136  | 375457   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.72  | 164  | 143255   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.20 | 188  | 229372   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 13.84 | 240  | 222565   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 15.24 | 264  | 177906   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 781574   | 121.18 | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 1064624  | 121.49 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.25  | 82   | 629618   | 91.10  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.51 | 330  | 154412   | 124.23 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.04  | 172  | 948117   | 97.24  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.79 | 244  | 663273   | 62.15  | ng    | -0.02    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 7.99  | 128  | 43127    | 2.213  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.68  | 142  | 28814    | 2.411  | ng    | 97       |
| 49) Dimethylphthalate       | 9.44  | 163  | 152854   | 14.597 | ng    | 98       |
| 70) Phenanthrene            | 11.22 | 178  | 92309    | 7.552  | ng    | 98       |
| 71) Anthracene              | 11.27 | 178  | 37424    | 3.019  | ng    | 98       |
| 74) Fluoranthene            | 12.41 | 202  | 163788   | 12.839 | ng    | 98       |
| 77) Pyrene                  | 12.64 | 202  | 152810   | 8.395  | ng    | 97       |
| 80) Benzo(a)anthracene      | 13.83 | 228  | 99238    | 7.440  | ng    | 93       |
| 82) Chrysene                | 13.86 | 228  | 121049   | 9.122  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.60 | 276  | 44787m   | 4.588  | ng    |          |
| 87) Benzo(b)fluoranthene    | 14.85 | 252  | 157434m  | 14.039 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.87 | 252  | 50038m   | 4.749  | ng    |          |
| 89) Benzo(a)pyrene          | 15.19 | 252  | 73059    | 7.359  | ng    | # 95     |
| 91) Benzo(a,h,i)perylene    | 17.00 | 276  | 36642    | 4.345  | ng    | 92       |

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

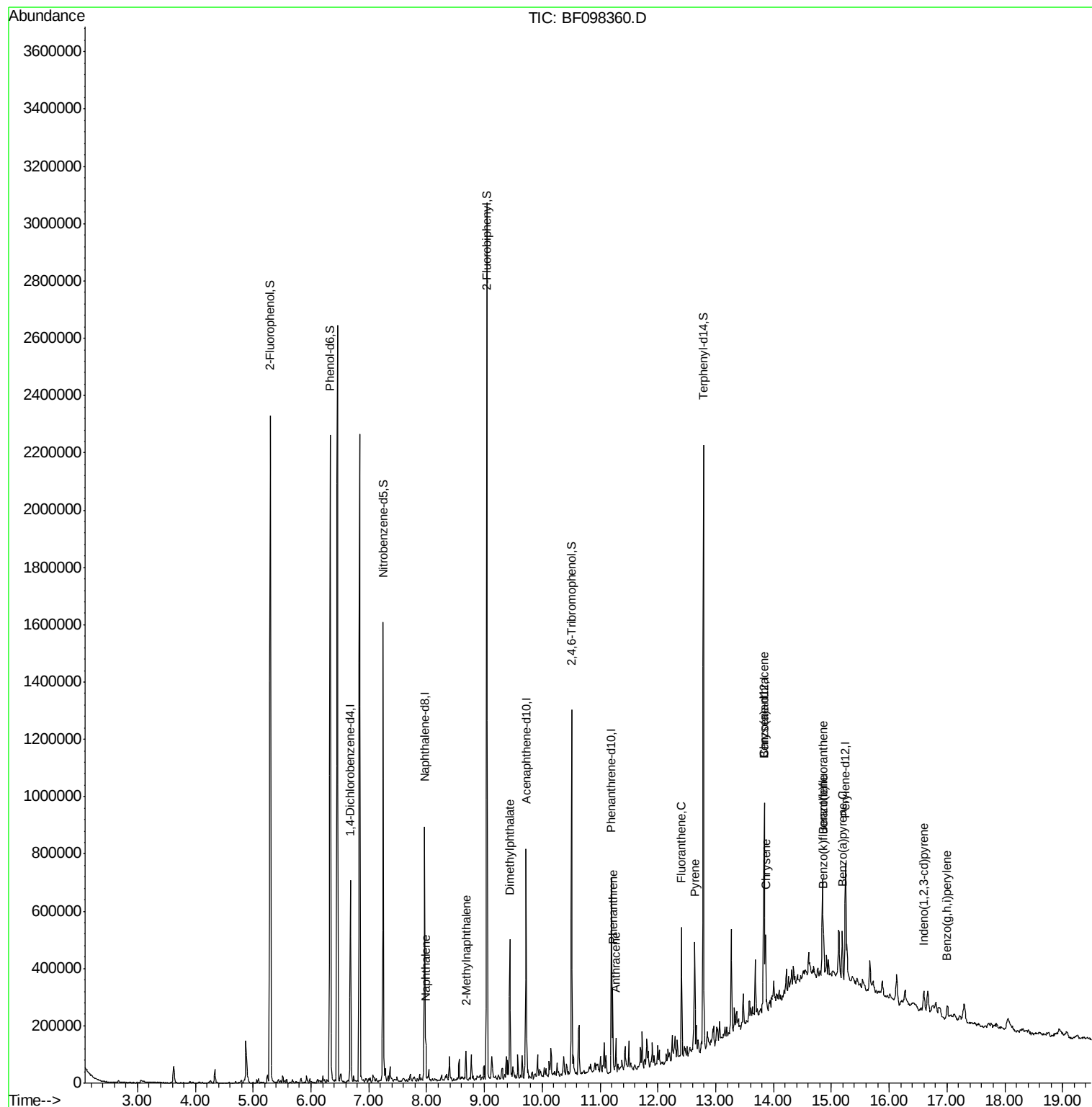
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090817\  
Data File : BF098360.D  
Acq On : 8 Sep 2017 19:43  
Operator : SJ/JU  
Sample : I5071-18  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

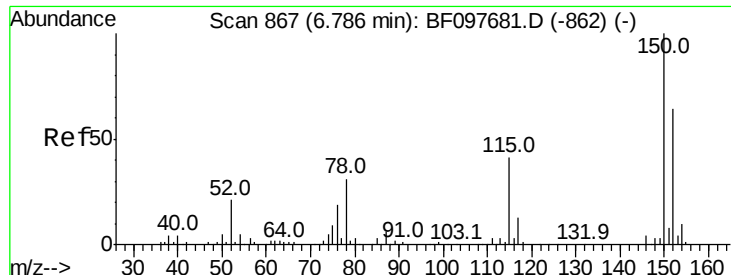
Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

Manual Integrations  
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Quant Time: Sep 11 11:39:16 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 05 17:28:20 2017  
Response via : Initial Calibration





#1

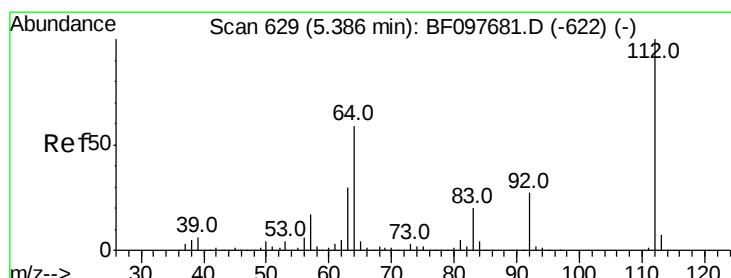
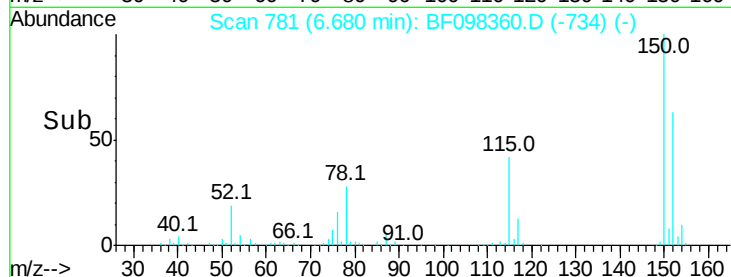
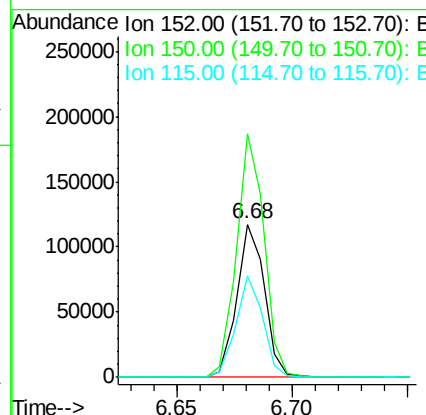
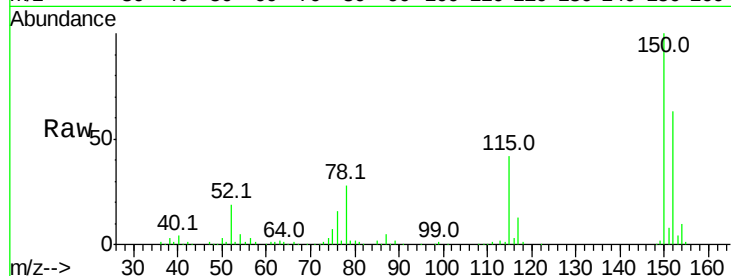
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.68 min Scan# 781  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampled :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.8 | 126.2 | 189.2 |
| 115     | 66.6  | 52.2  | 78.2  |

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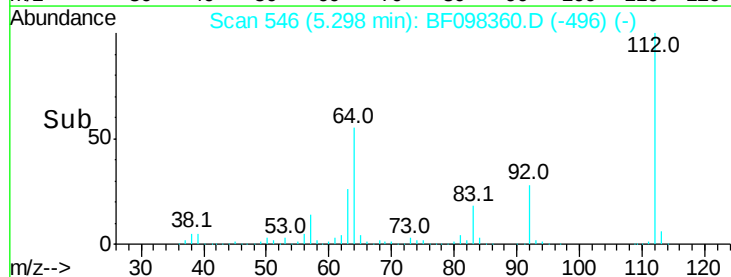
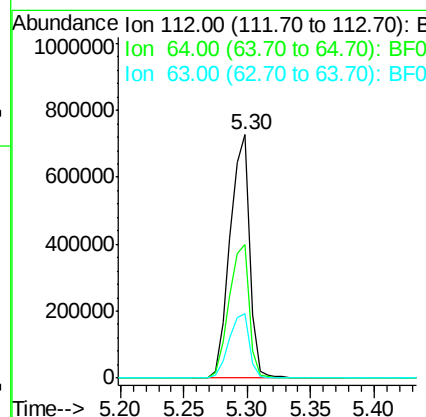
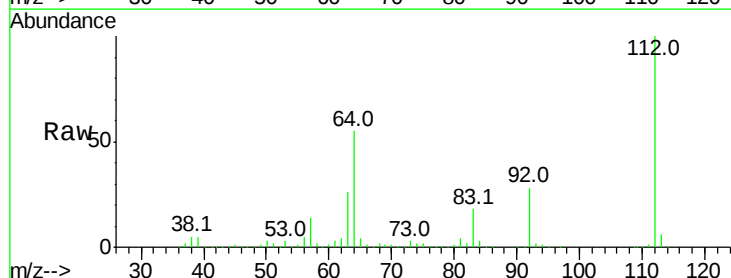
Sohil  
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#5

2-Fluorophenol  
Concen: 121.182 ng  
RT: 5.30 min Scan# 546  
Delta R.T. -0.01 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.8  | 46.0  | 69.0  |
| 63      | 26.2  | 23.4  | 35.0  |





#7

Phenol-d6

Concen: 121.489 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

Instrument :

BNA\_F

ClientSampled :

G57A-1.5-3

Tot Ion: 99 Resp: 1064624

Ion Ratio Lower Upper

99 100

42 14.1 13.5 20.3

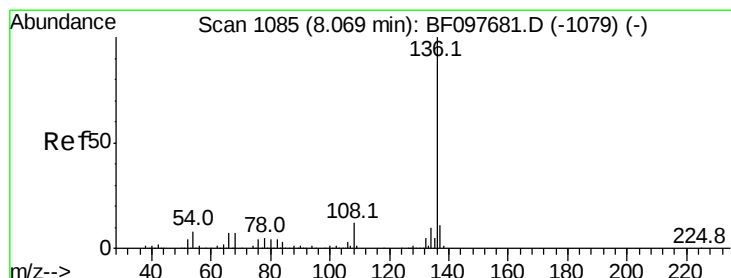
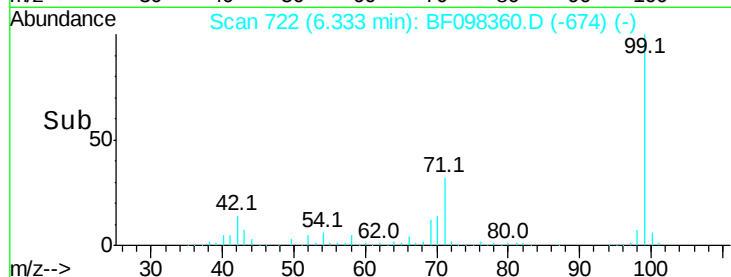
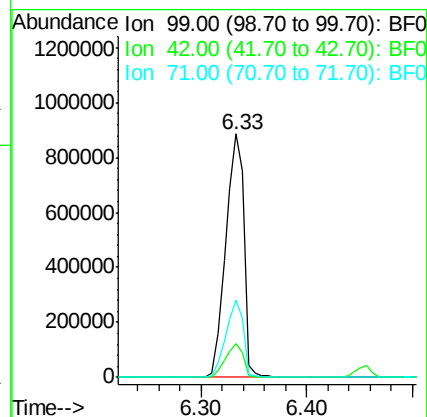
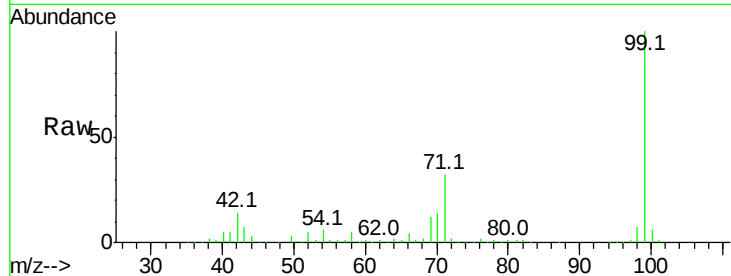
71 31.9 24.5 36.7

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 999

Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

Tgt Ion: 136 Resp: 375457

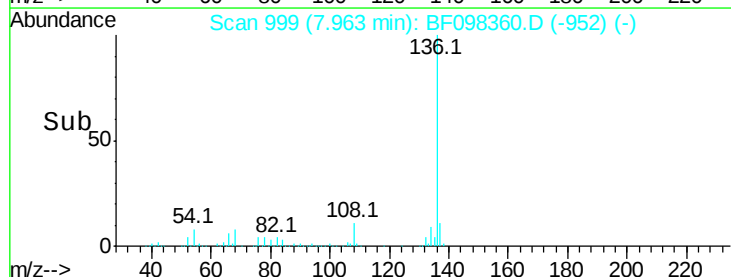
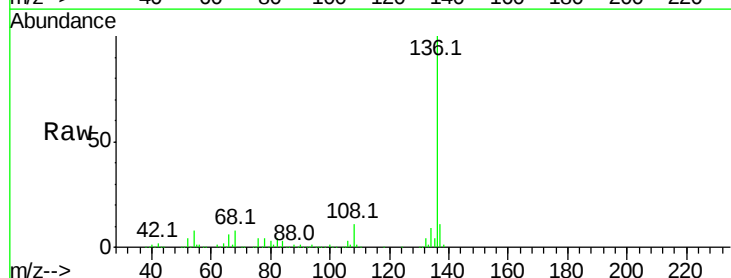
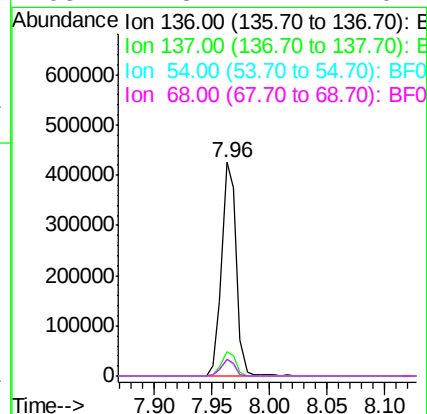
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 7.7 4.9 7.3#

68 7.8 4.1 6.1#





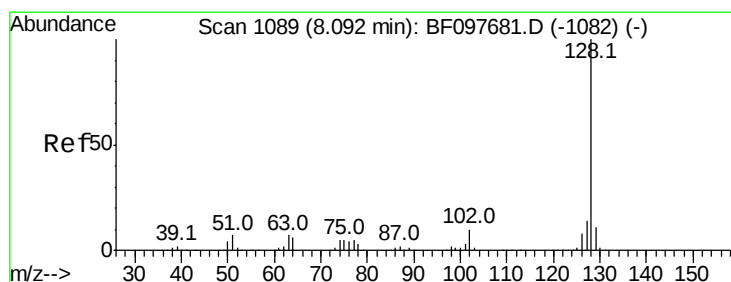
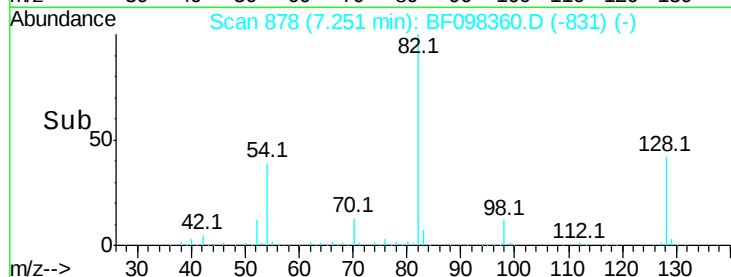
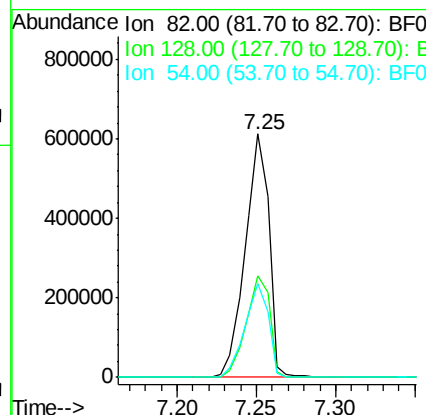
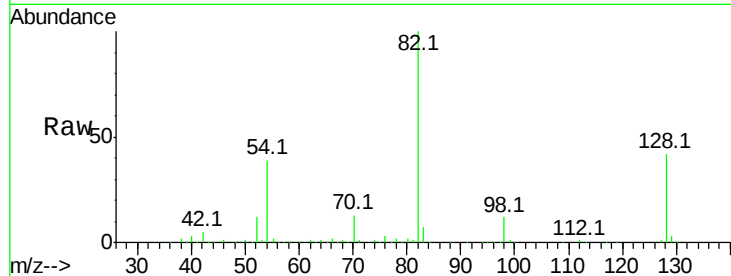
#23  
Nitrobenzene-d5  
Concen: 91.099 ng  
RT: 7.25 min Scan# 878  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampled :  
G57A-1.5-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 82      | 100   |            |       |
| 128     | 41.7  | 34.0       | 51.0  |
| 54      | 38.8  | 42.2       | 63.2  |

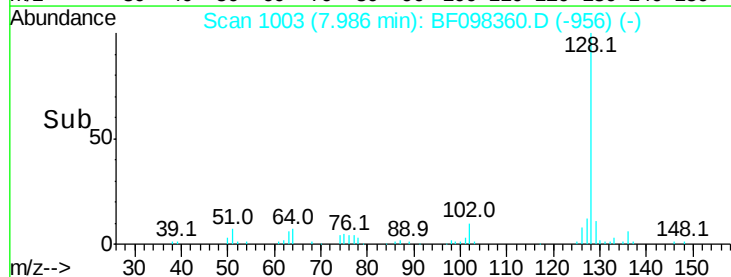
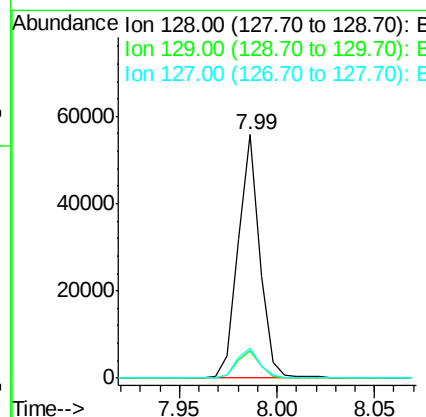
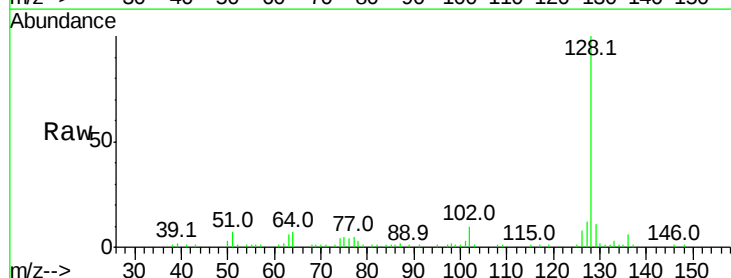
Manual Integrations  
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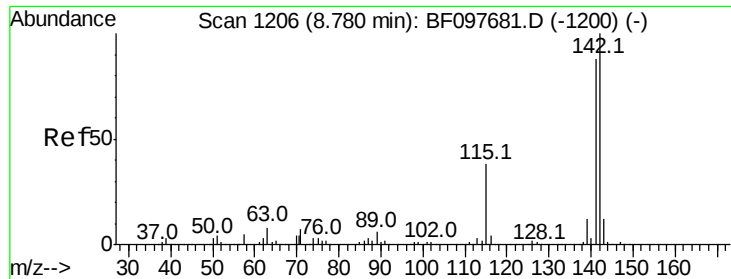
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#31  
Naphthalene  
Concen: 2.213 ng  
RT: 7.99 min Scan# 1003  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 128     | 100   |            |       |
| 129     | 11.0  | 9.0        | 13.6  |
| 127     | 12.3  | 10.8       | 16.2  |





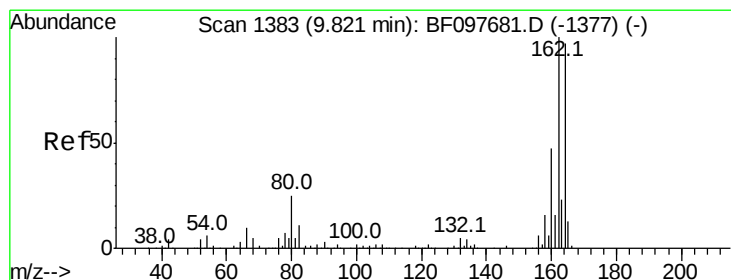
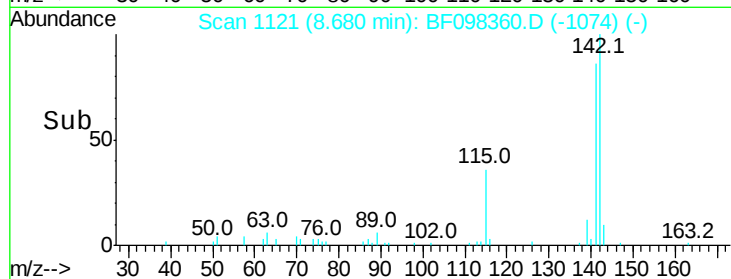
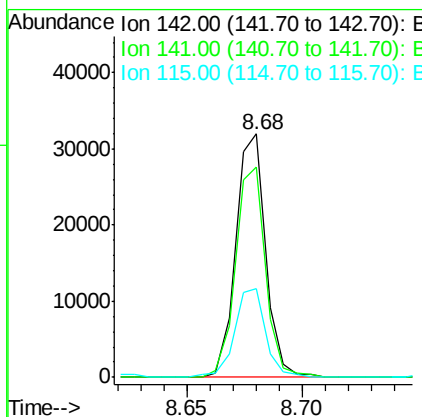
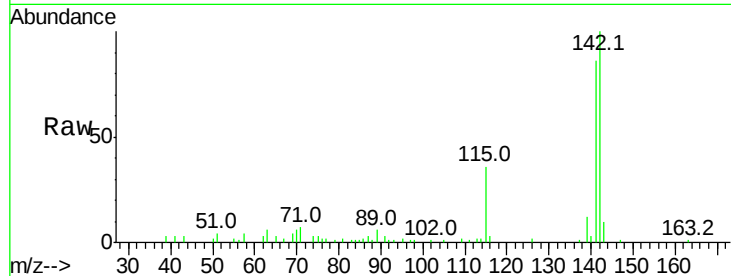
#37  
2-Methylnaphthalene  
Concen: 2.411 ng  
RT: 8.68 min Scan# 1121  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 86.4  | 71.3  | 106.9 |
| 115     | 36.5  | 27.1  | 40.7  |

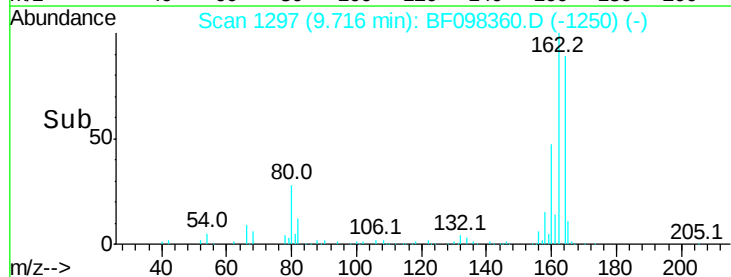
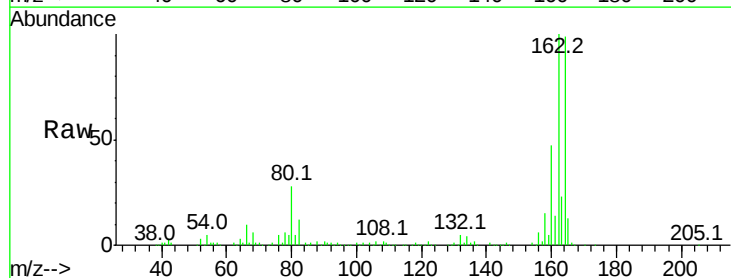
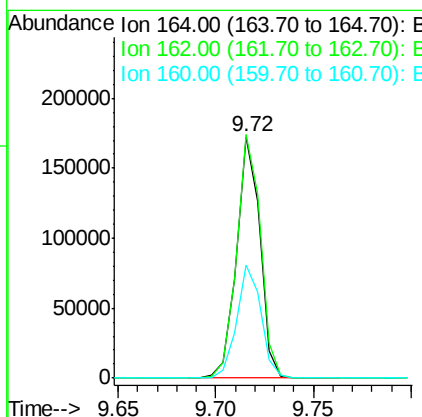
Manual Integrations  
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#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.72 min Scan# 1297  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.8 | 82.6  | 123.8 |
| 160     | 46.9  | 36.2  | 54.2  |





#41

2,4,6-Tribromophenol

Concen: 124.228 ng

RT: 10.51 min Scan# 1432

Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

Instrument :

BNA\_F

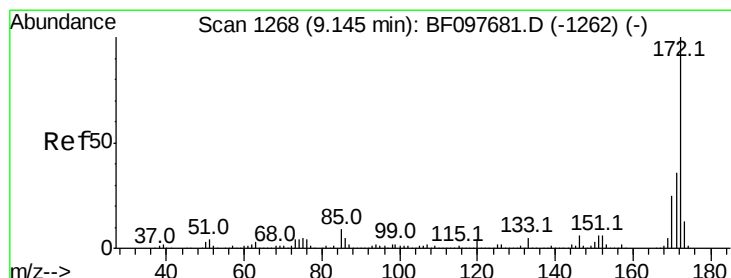
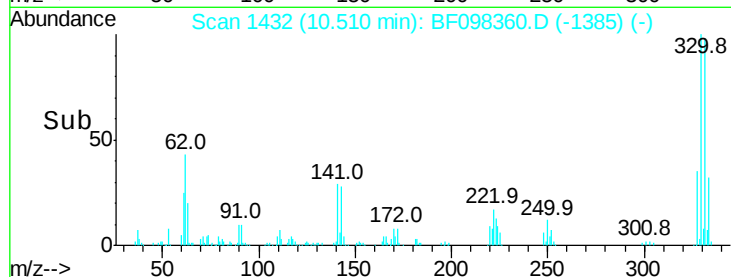
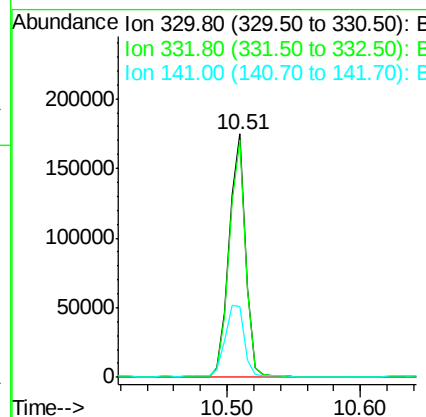
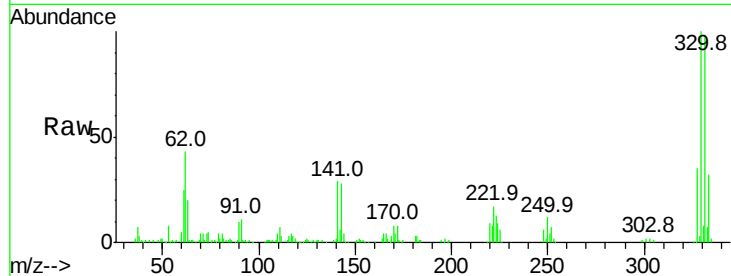
ClientSampleId :

G57A-1.5-3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 154412 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.7  | 76.6  | 115.0  |
| 141       | 34.7  | 31.4  | 47.2   |

Manual Integrations  
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#44

2-Fluorobiphenyl

Concen: 97.238 ng

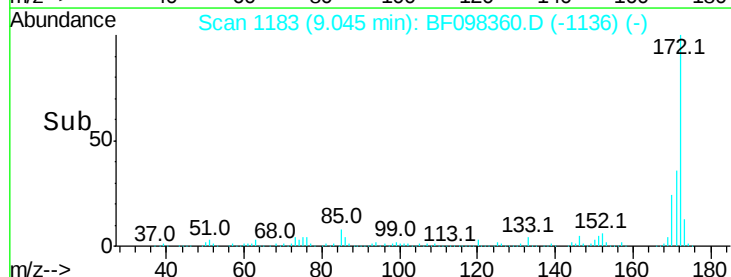
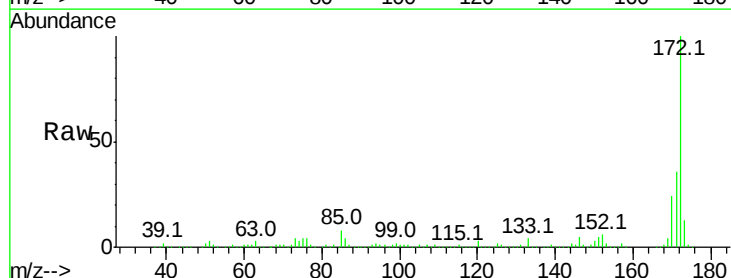
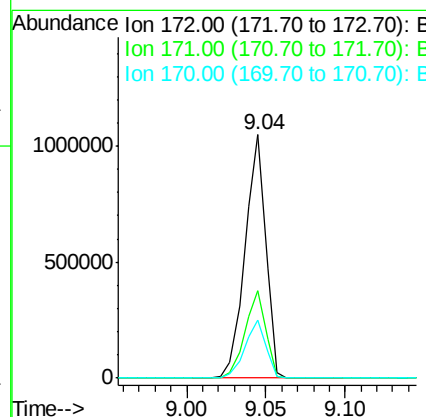
RT: 9.04 min Scan# 1183

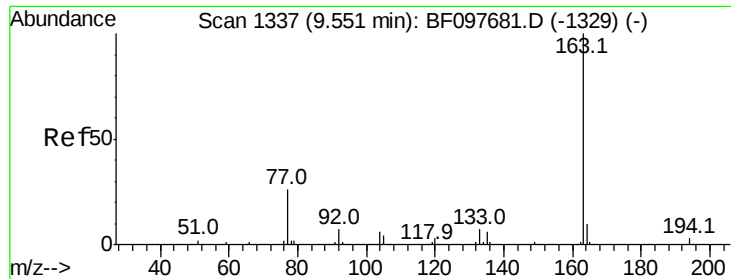
Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 172   | Resp: | 948117 |
| Ion Ratio | Lower | Upper |        |
| 172       | 100   |       |        |
| 171       | 36.1  | 29.6  | 44.4   |
| 170       | 23.9  | 19.8  | 29.8   |





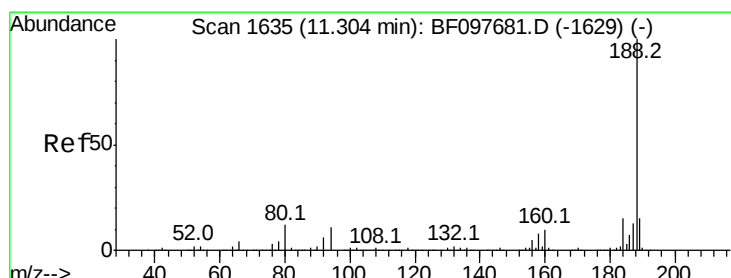
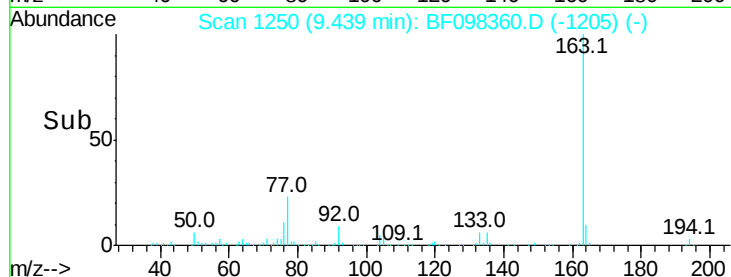
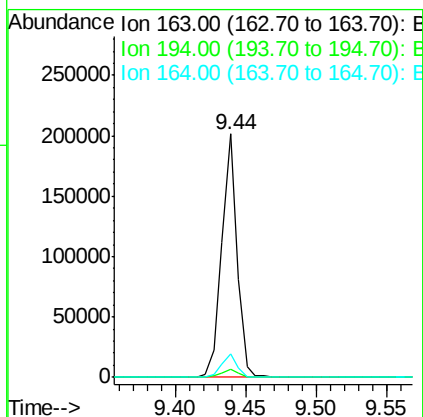
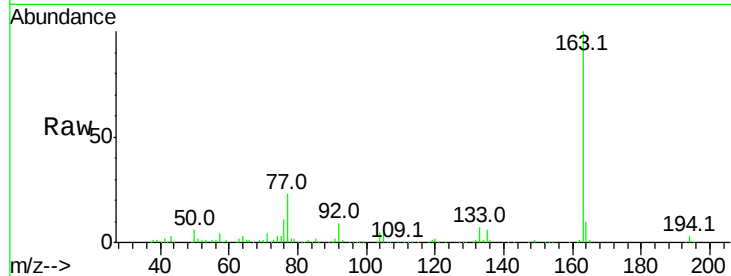
#49  
Dimethylphthalate  
Concen: 14.597 ng  
RT: 9.44 min Scan# 1250  
Delta R.T. -0.04 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampled :  
G57A-1.5-3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 152854 |       |       |
| 194     | 3.4   | 2.6    | 4.0   |       |
| 164     | 9.5   | 8.4    | 12.6  |       |

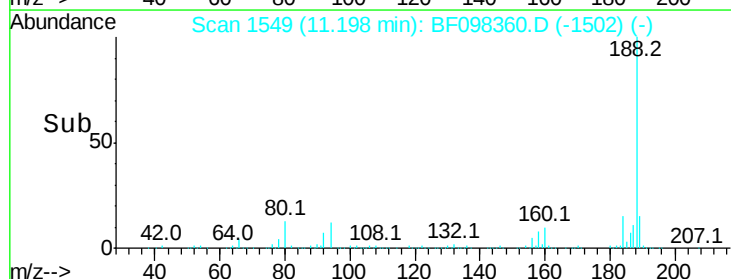
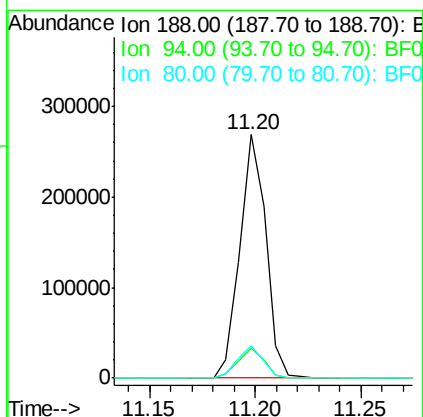
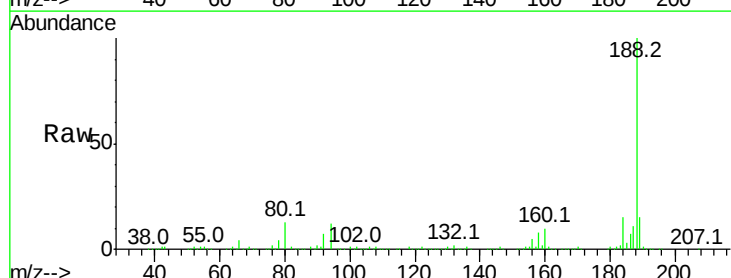
Manual Integrations  
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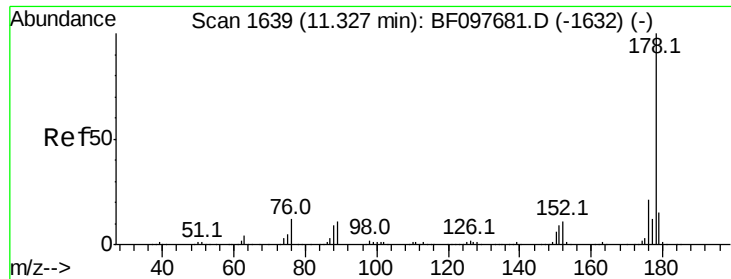
Sohil  
9/11/2017 4:47:43 PM



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.20 min Scan# 1549  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 229372 |       |       |
| 94      | 12.2  | 9.4    | 14.2  |       |
| 80      | 13.4  | 10.2   | 15.2  |       |





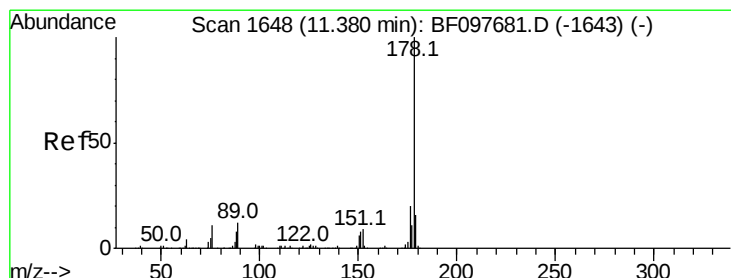
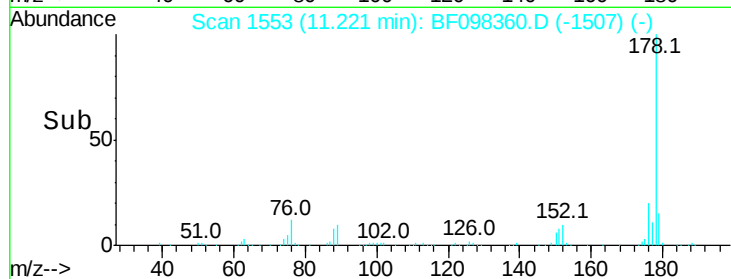
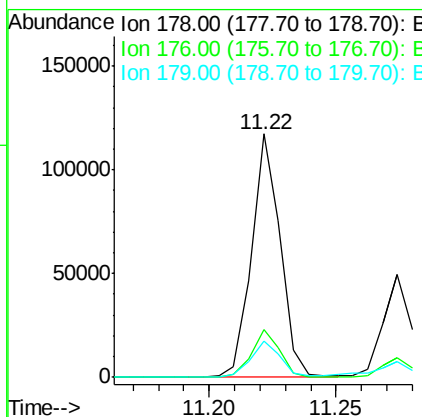
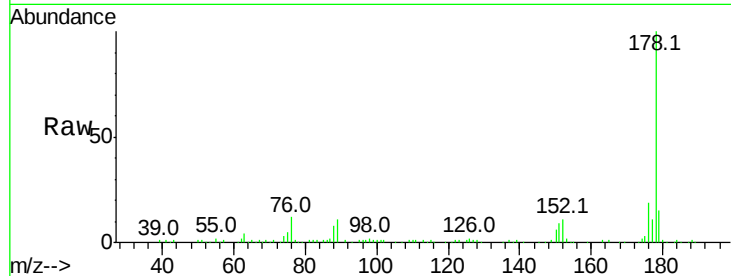
#70  
Phenanthrene  
Concen: 7.552 ng  
RT: 11.22 min Scan# 1553  
Delta R.T. -0.03 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 16.2  | 24.4  |
| 179     | 15.1  | 12.6  | 19.0  |

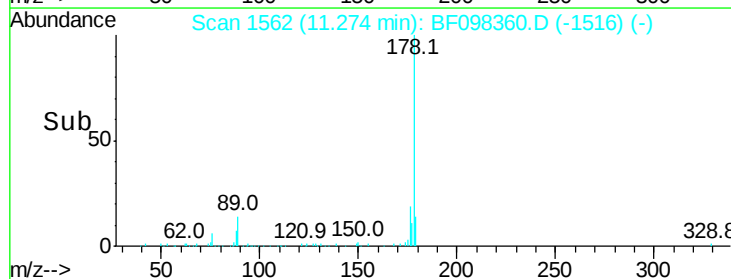
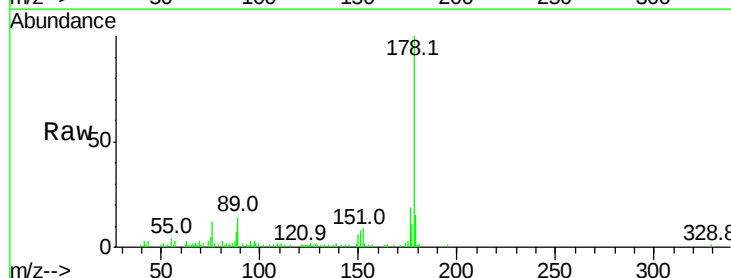
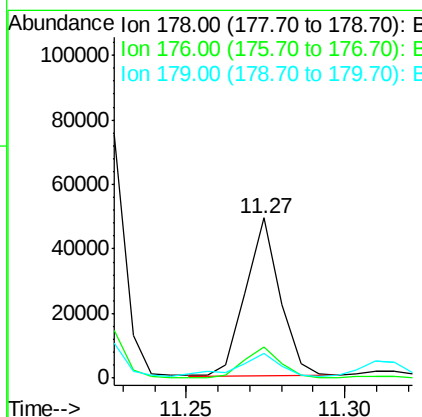
Manual Integrations  
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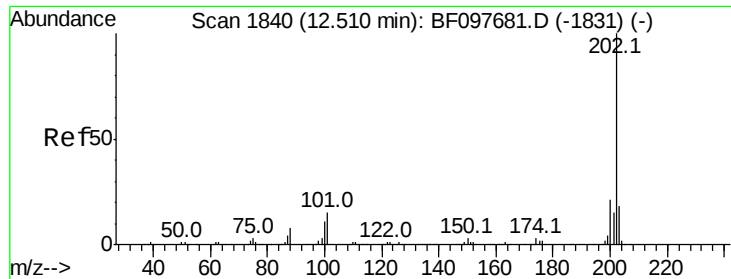
Sohil  
9/11/2017 4:47:43 PM



#71  
Anthracene  
Concen: 3.019 ng  
RT: 11.27 min Scan# 1562  
Delta R.T. -0.03 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 15.8  | 23.8  |
| 179     | 15.3  | 12.7  | 19.1  |





#74

Fluoranthene

Concen: 12.839 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

Instrument :

BNA\_F

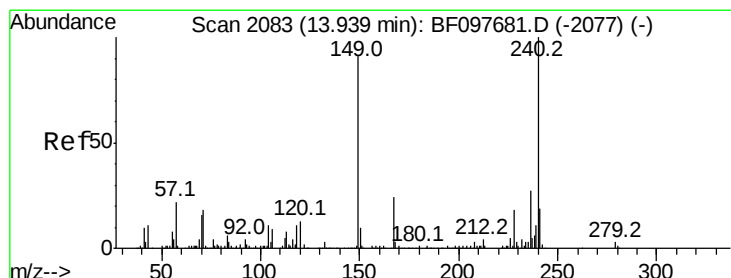
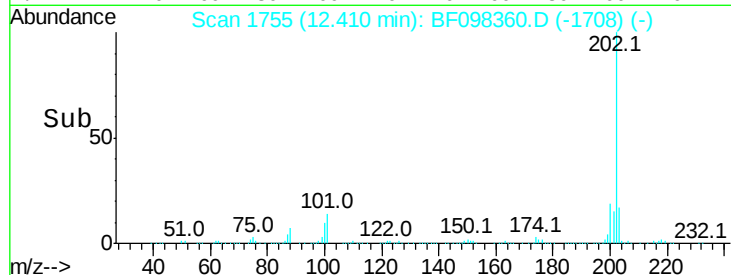
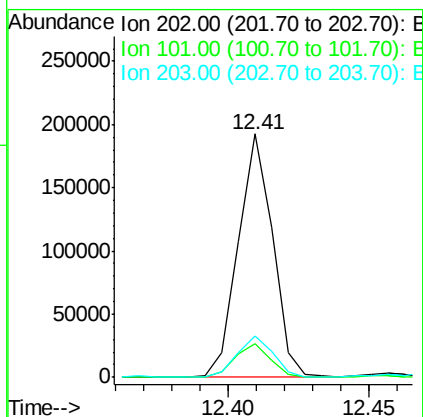
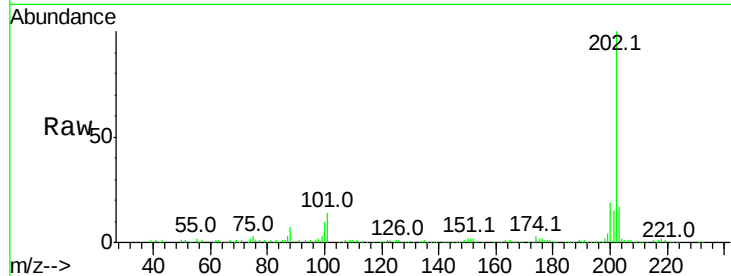
ClientSampled :

G57A-1.5-3

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 163788 |       |       |
| 101     | 13.7  | 0.0    | 33.2  |       |
| 203     | 17.0  | 0.0    | 38.1  |       |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.000 ng

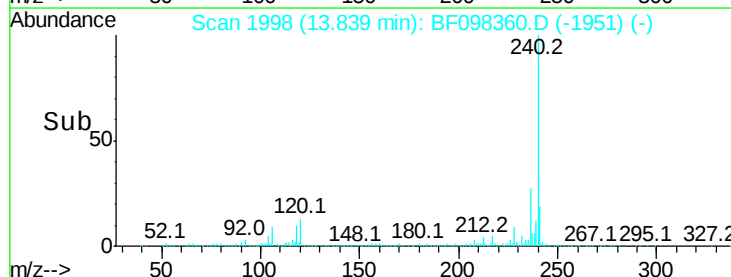
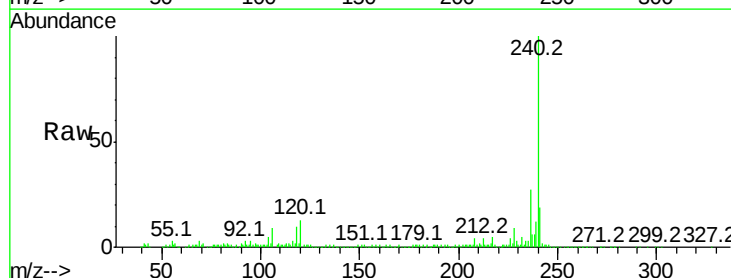
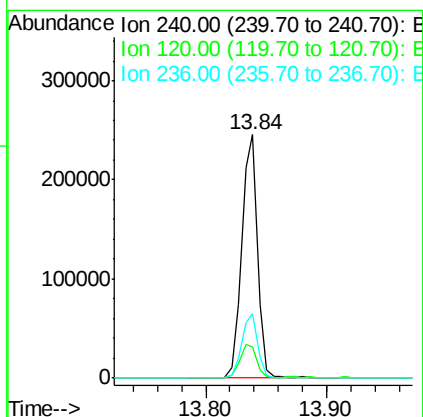
RT: 13.84 min Scan# 1998

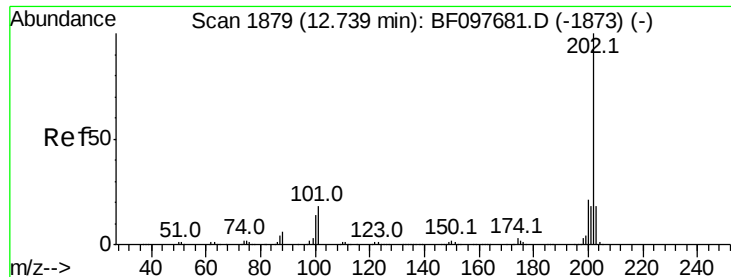
Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 222565 |       |       |
| 120     | 12.9  | 5.8    | 8.8#  |       |
| 236     | 26.7  | 20.5   | 30.7  |       |





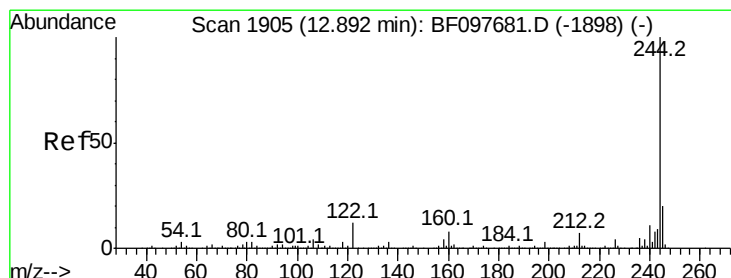
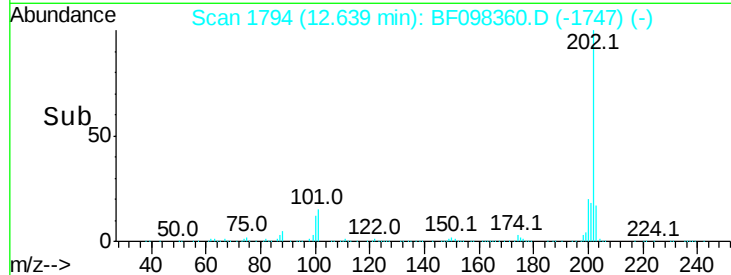
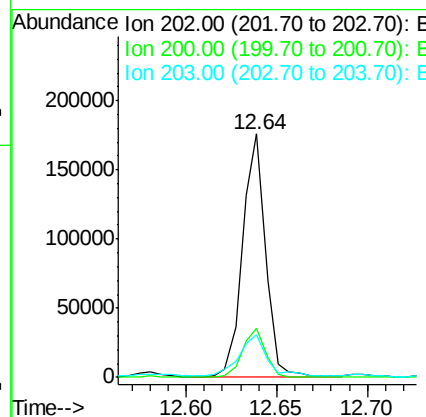
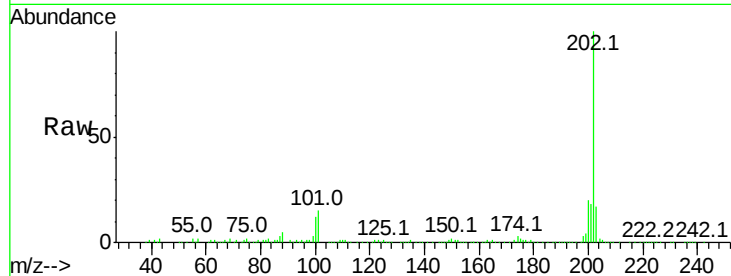
#77  
Pvrene  
Concen: 8.395 ng  
RT: 12.64 min Scan# 1794  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.0  | 17.6       | 26.4  |
| 203     | 17.5  | 14.4       | 21.6  |

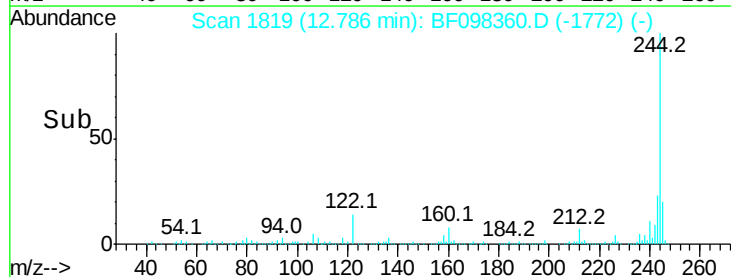
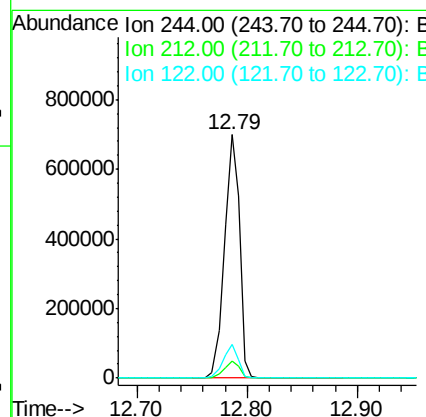
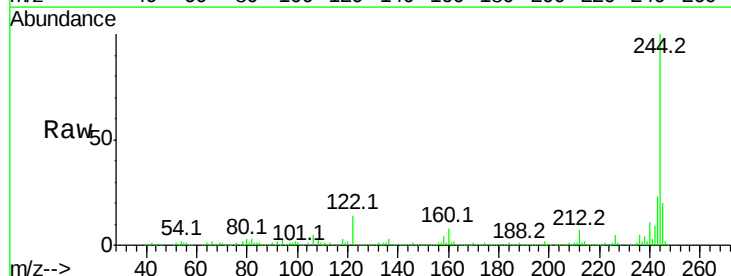
Manual Integrations  
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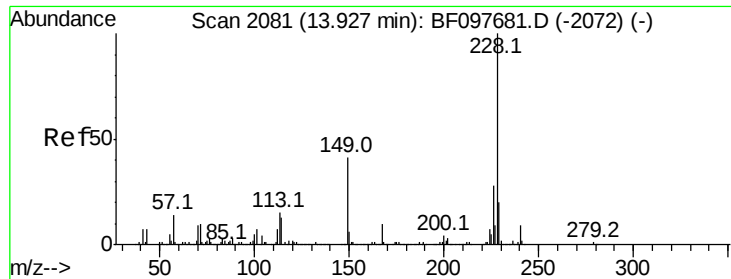
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#78  
Terphenyl-d14  
Concen: 62.146 ng  
RT: 12.79 min Scan# 1819  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 7.1   | 6.0        | 9.0   |
| 122     | 13.7  | 10.3       | 15.5  |





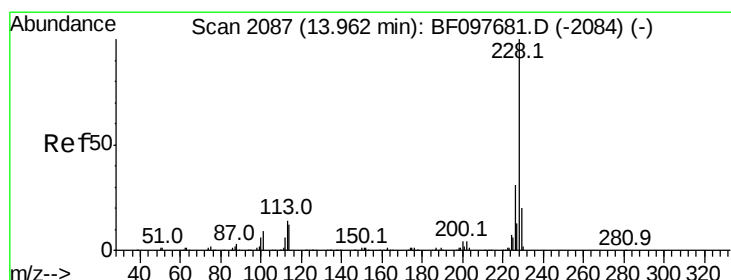
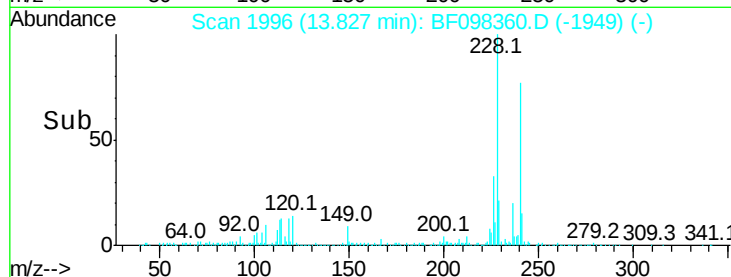
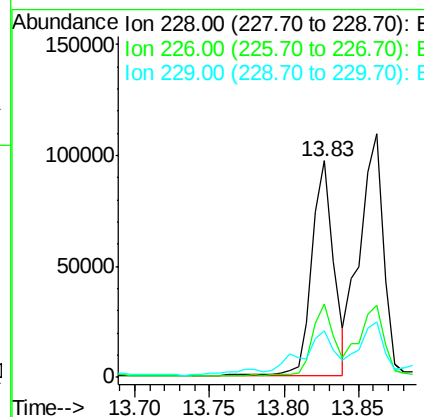
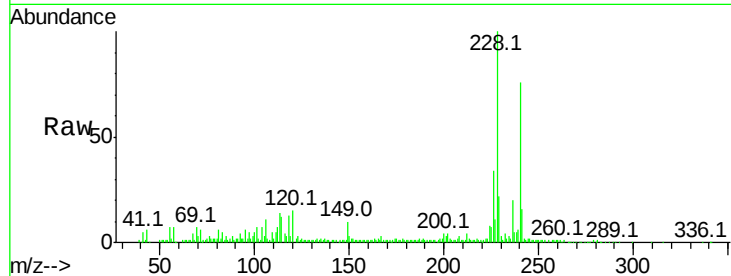
#80  
Benzo(a)anthracene  
Concen: 7.440 ng  
RT: 13.83 min Scan# 1996  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampled :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.6  | 22.6  | 33.8  |
| 229     | 21.7  | 16.3  | 24.5  |

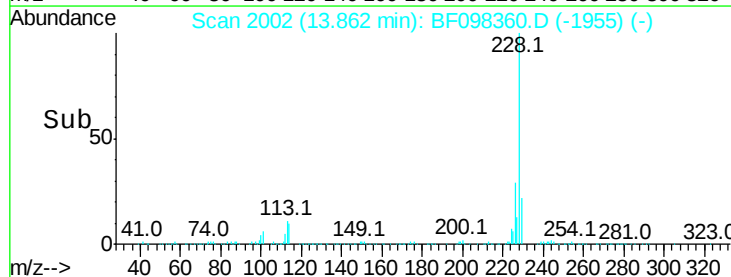
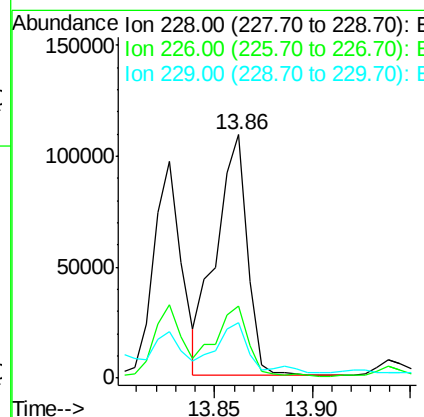
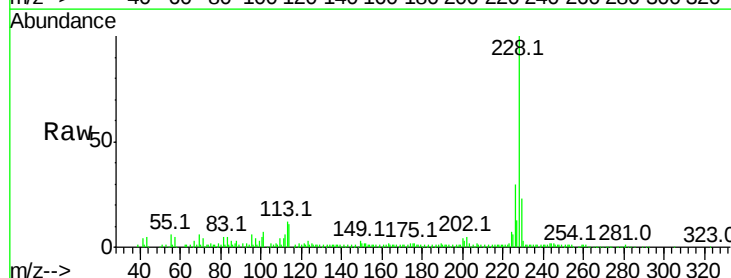
Manual Integrations  
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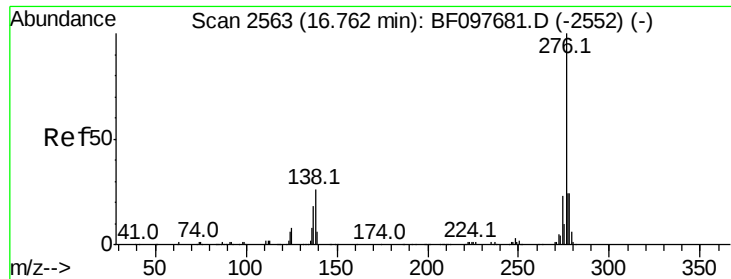
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#82  
Chrysene  
Concen: 9.122 ng  
RT: 13.86 min Scan# 2002  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.9  | 37.3  |
| 229     | 22.8  | 15.8  | 23.6  |





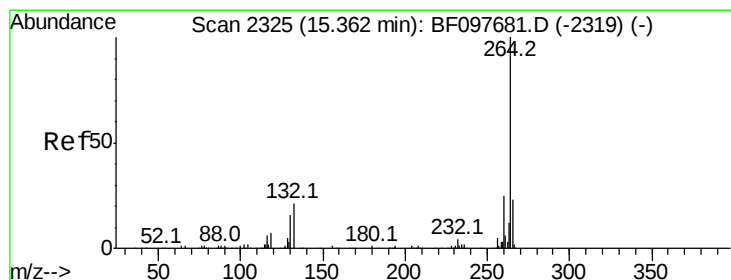
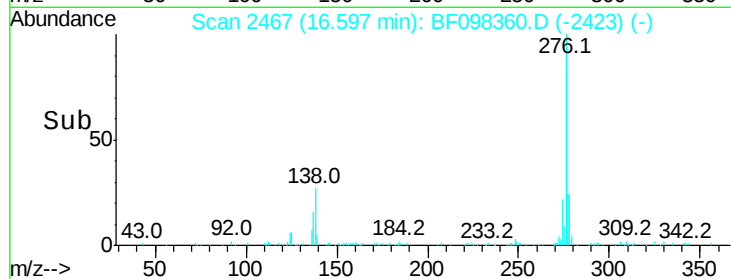
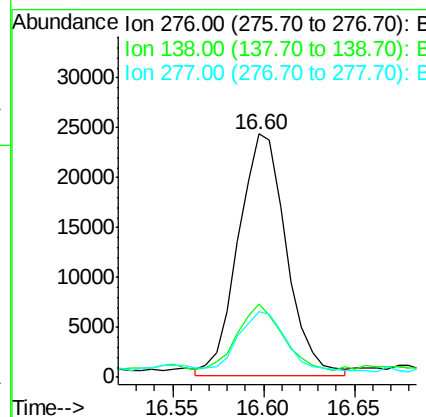
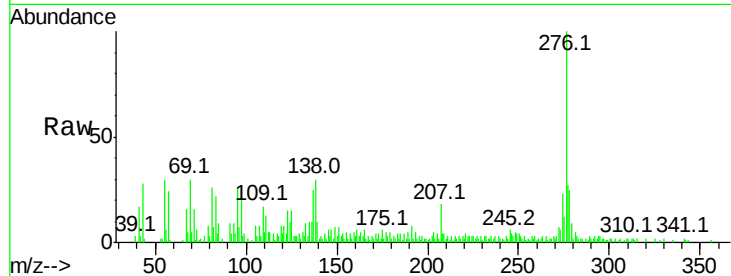
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 4.588 ng/ml  
RT: 16.60 min Scan# 2467  
Delta R.T. -0.04 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 6.6   | 27.8  | 41.6# |
| 277     | 5.9   | 20.2  | 30.4# |

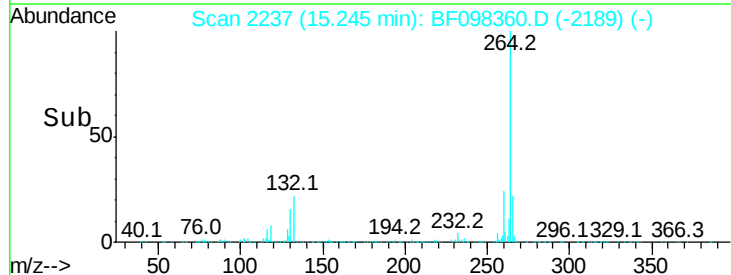
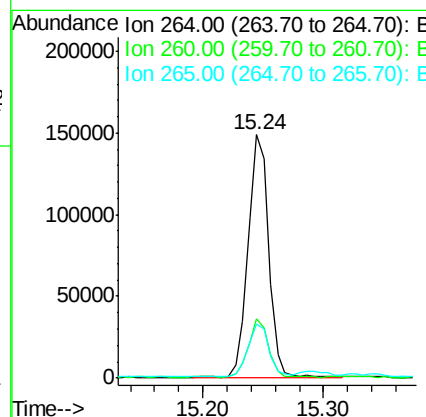
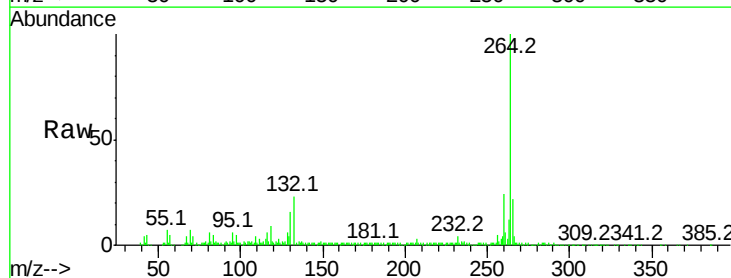
Manual Integrations  
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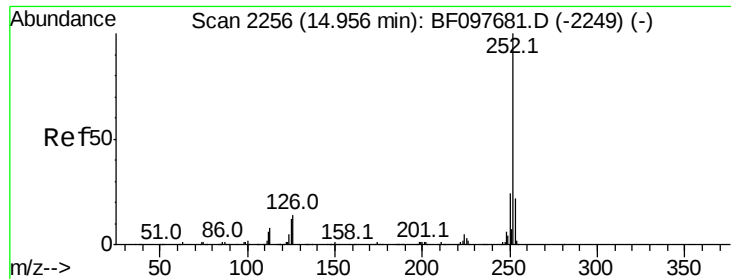
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.24 min Scan# 2237  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.5  | 29.3  |
| 265     | 22.0  | 17.2  | 25.8  |





#87

Benzo(b)fluoranthene

Concen: 14.039 ng m

RT: 14.85 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

Instrument :

BNA\_F

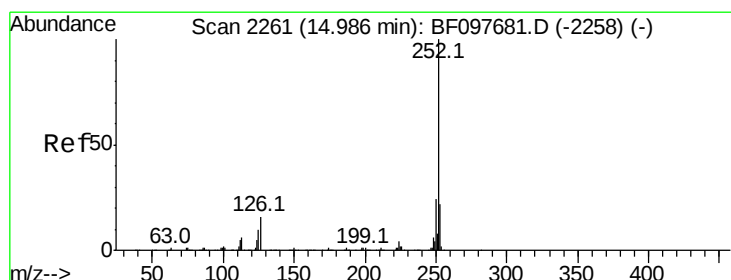
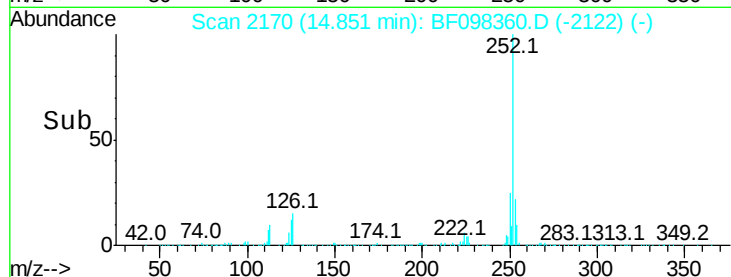
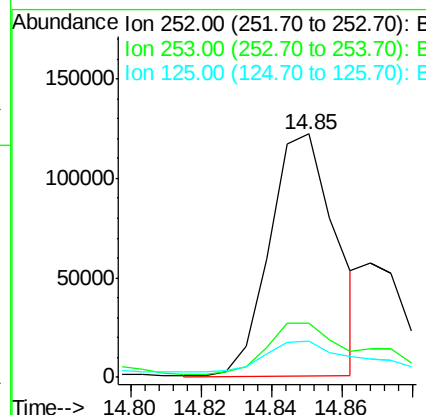
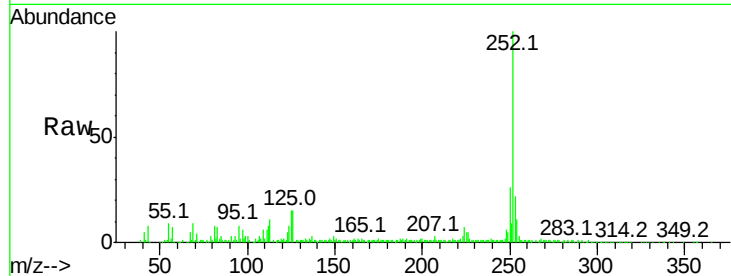
ClientSampleId :

G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 18.1  | 27.1  |
| 125     | 14.8  | 9.8   | 14.8  |

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#88

Benzo(k)fluoranthene

Concen: 4.749 ng m

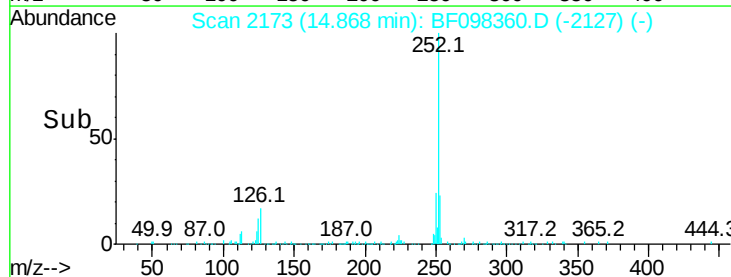
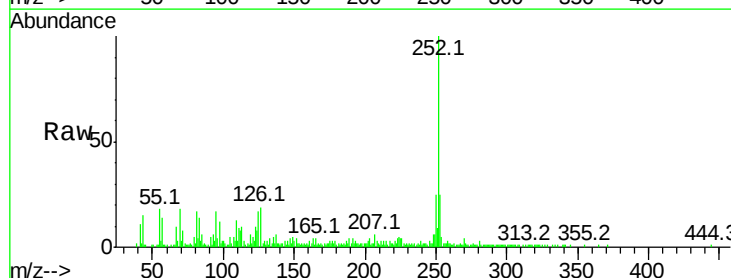
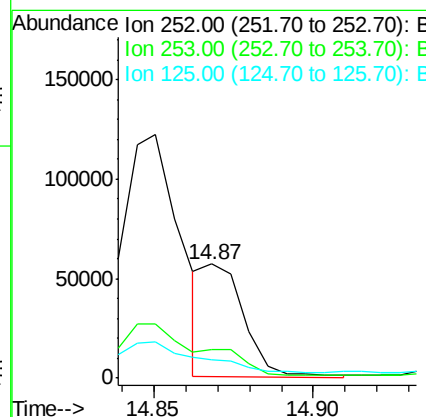
RT: 14.87 min Scan# 2173

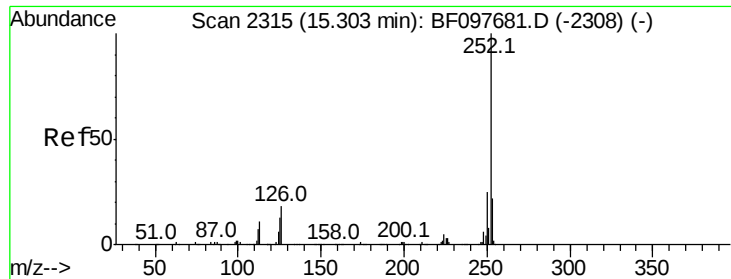
Delta R.T. -0.03 min

Lab File: BF098360.D

Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.4  | 27.6  |
| 125     | 16.5  | 13.1  | 19.7  |





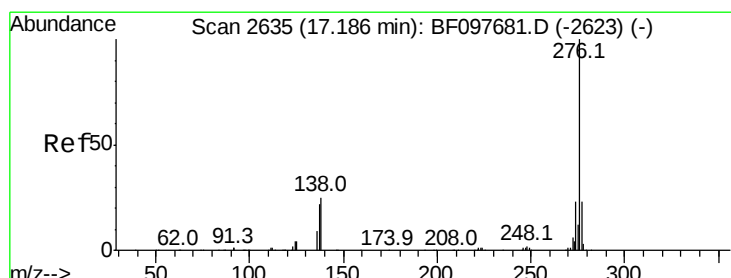
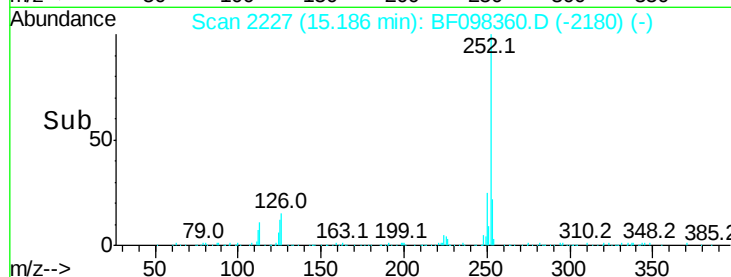
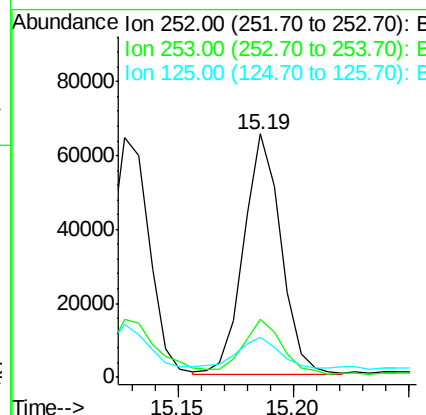
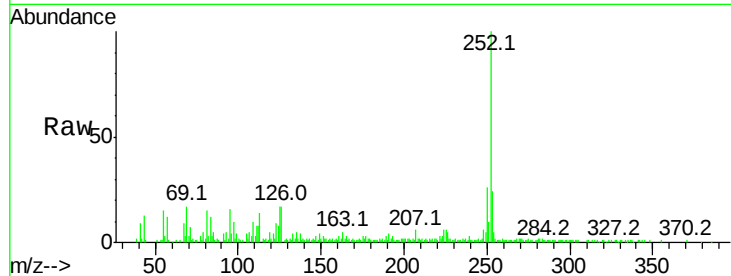
#89  
Benzo(a)pyrene  
Concen: 7.359 ng  
RT: 15.19 min Scan# 2227  
Delta R.T. -0.02 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

Instrument :  
BNA\_F  
ClientSampleId :  
G57A-1.5-3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 17.5  | 26.3  |
| 125     | 16.6  | 11.0  | 16.4  |

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#91  
Benzo(g,h,i)perylene  
Concen: 4.345 ng  
RT: 17.00 min Scan# 2536  
Delta R.T. -0.05 min  
Lab File: BF098360.D  
Acq: 8 Sep 2017 19:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.2  | 18.6  | 28.0  |
| 138     | 26.9  | 25.4  | 38.0  |

